



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: \_\_\_\_\_ Company **WPX ENERGY**

CH087667 **Well WPX ENERGY PA 344-3**

API No: \_\_\_\_\_ **Field PARACHUTE**

05045221400000 **County GARFIELD State CO**

3 7S 95W **Location** SHL: 2043' FSL & 1540' FWL (2 7S 95W)

GV 86-2 PAD BHL: 917' FSL & 649' FEL (3 7S 95W)

AZTEC 1000 **SEC 3 TWP 7S RGE 95W**

**Other Services**

RPM

Permanent Datum **GL Elevation 5821 ft**

Log Measured From **KB 25 ft Above P. D.**

Drill Measured From **KB Elevations KB 5846 ft DF GL 5821 ft**

Date	25/JUN/14	
Run	ONE	
Service Order	US087667	
Depth Driller	8019 ft	
Depth Logger	7968 ft	
Bottom Logged Interval	7968 ft	
Top Logged Interval	25 ft	
Time Started	7:00	
Time Finished	10:00	
Operator Rig Time	3 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	69 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	66 fpm	
Maximum Recorded Temperature	217 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JUNCTION
Recorded By	NEMELL	
Witnessed By	DUSTIN WELSH	

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
13.5 in	0 ft	1397 ft
8.75 in	1397 ft	8038 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1397 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	8038 ft

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 10 feet.
Logged with zero PSI at wellhead.
BHT = 217 °F

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10417456	CENTRALIZED

PRIMARY PRESENTATION

0 PSI

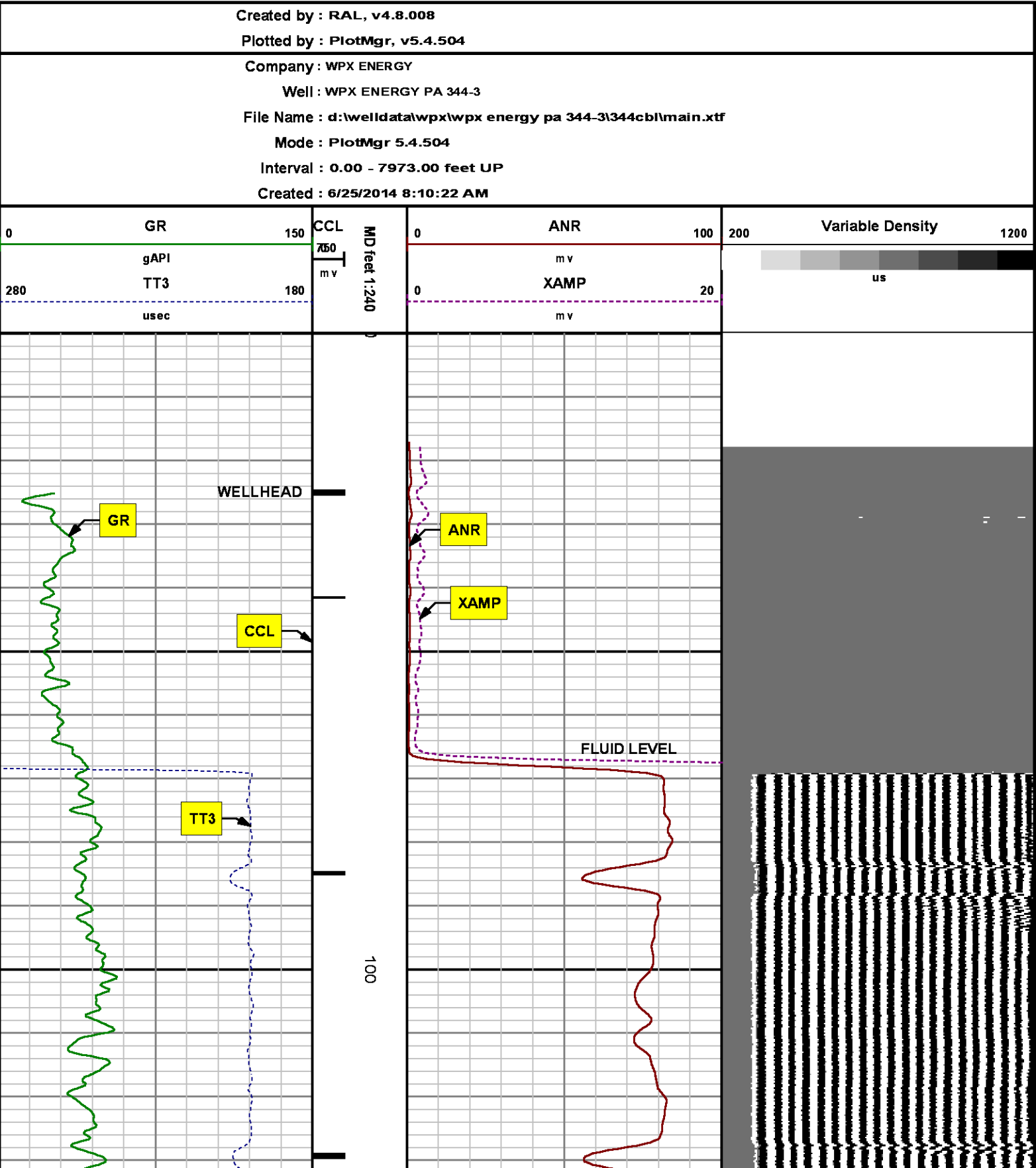
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	33.437	7975.250
RAL	Amp Gate Start Near	195.000	usec	33.437	7975.250
RAL	Amp Gate Start Radial	195.000	usec	33.437	7975.250
RAL	Amp Gate Width Far	25.000	usec	33.437	7975.250
RAL	Amp Gate Width Near	25.000	usec	33.437	7975.250
RAL	Amp Gate Width Radial	25.000	usec	33.437	7975.250
RAL	casing od	4.500	inches	33.437	7975.250
RAL	casing wt	11.600	lbm/ft	33.437	7975.250
RAL	FB Start Far	291.900	usec	33.437	7975.250
RAL	FB Start Near	175.391	usec	33.437	7975.250
RAL	FB Start Radial	175.391	usec	33.437	7975.250
RAL	FB Thresh Far	10.000	mv	33.437	7975.250
RAL	FB Thresh Near	4.000	mv	33.437	7975.250
RAL	FB Thresh Radial	4.000	mv	33.437	7975.250
RAL	Fluid Travel Time	200.000	usec/ft	33.437	7970.843

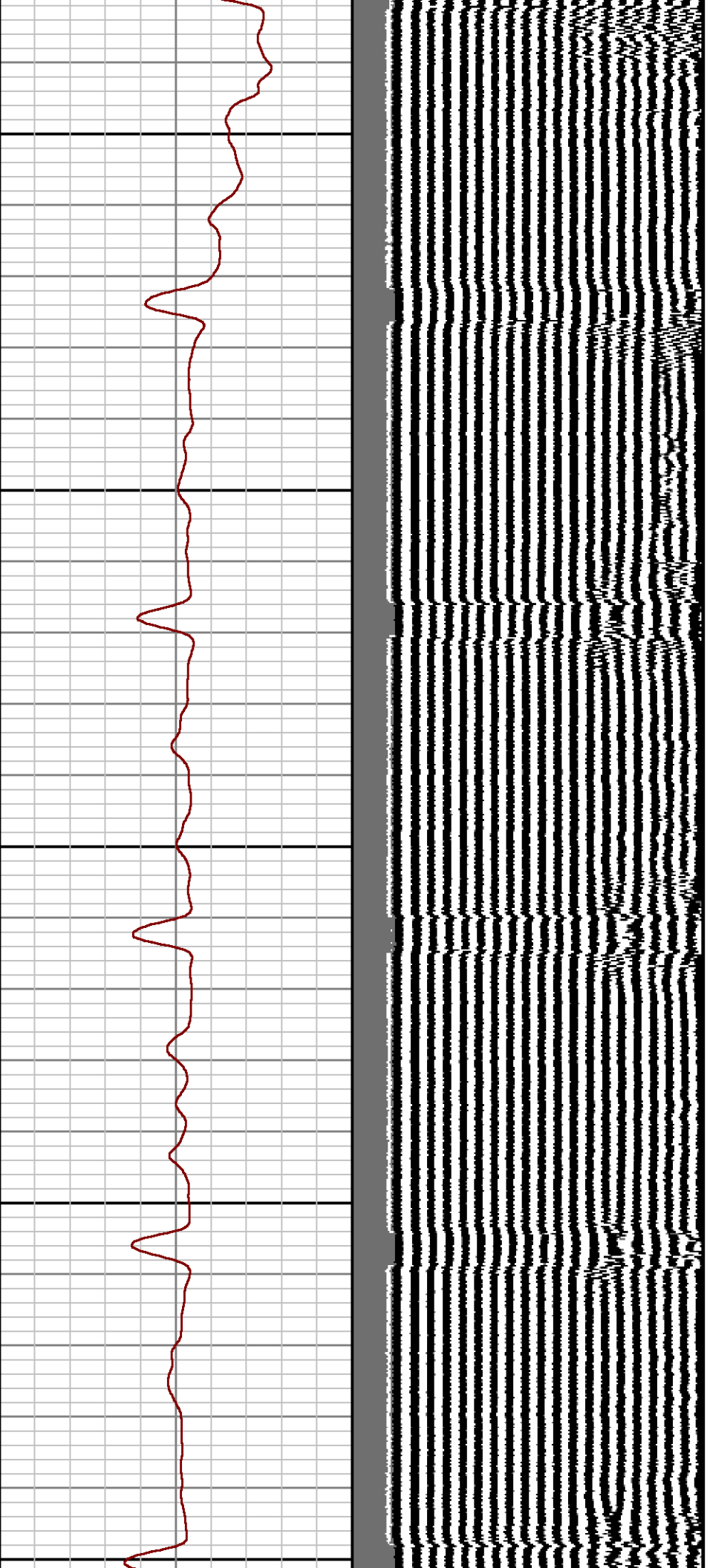
DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4		
		AR5	AR6	AR7	AR8	CHV	FPR2		

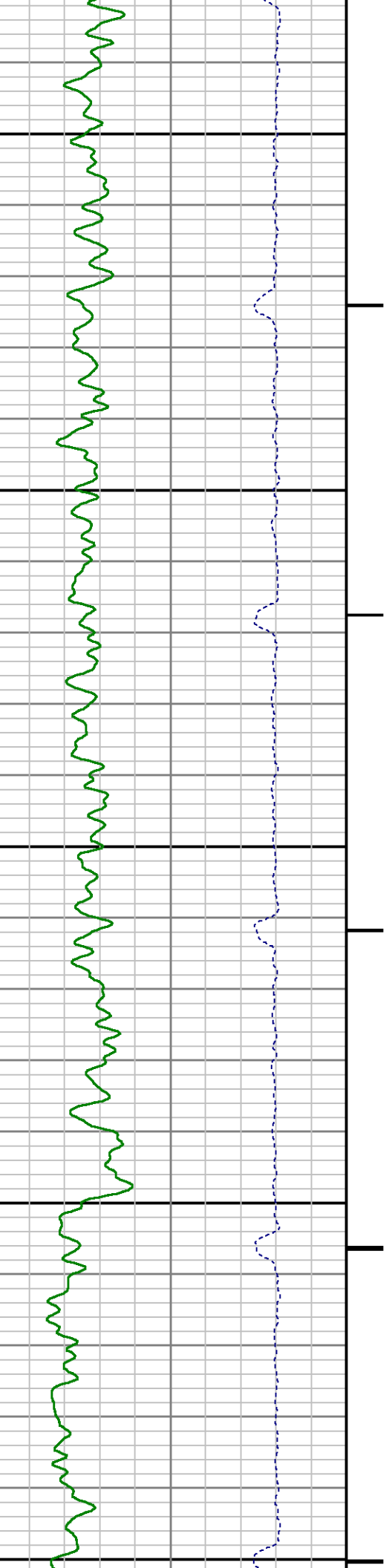
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

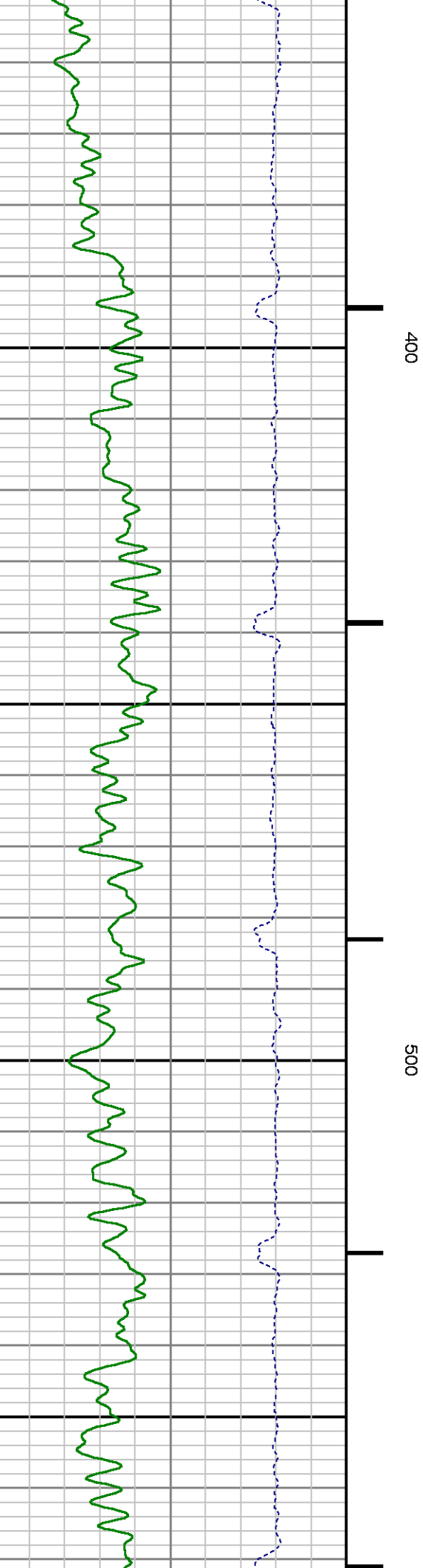
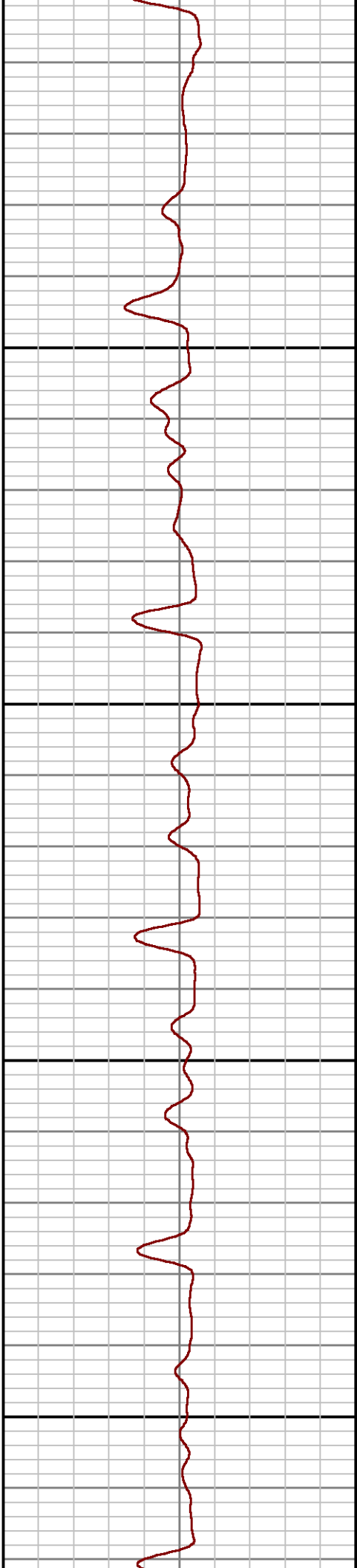
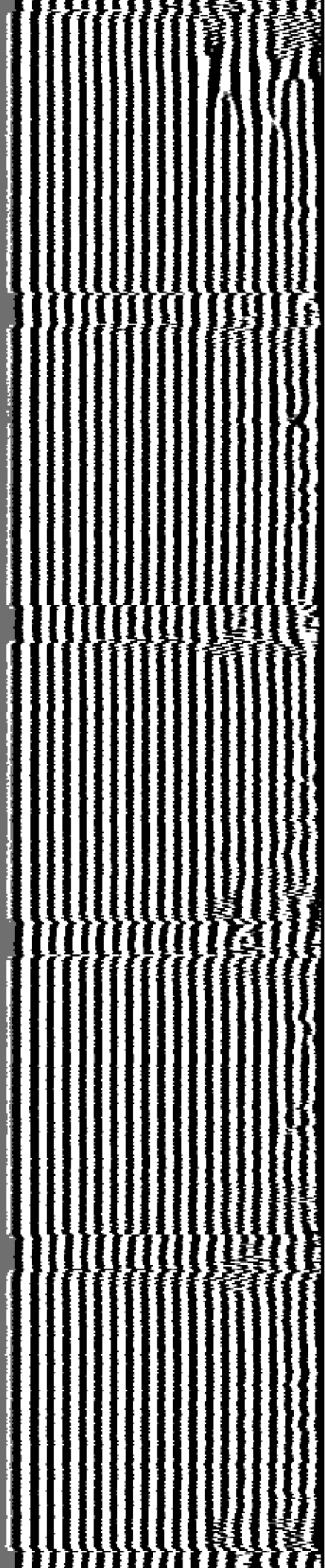


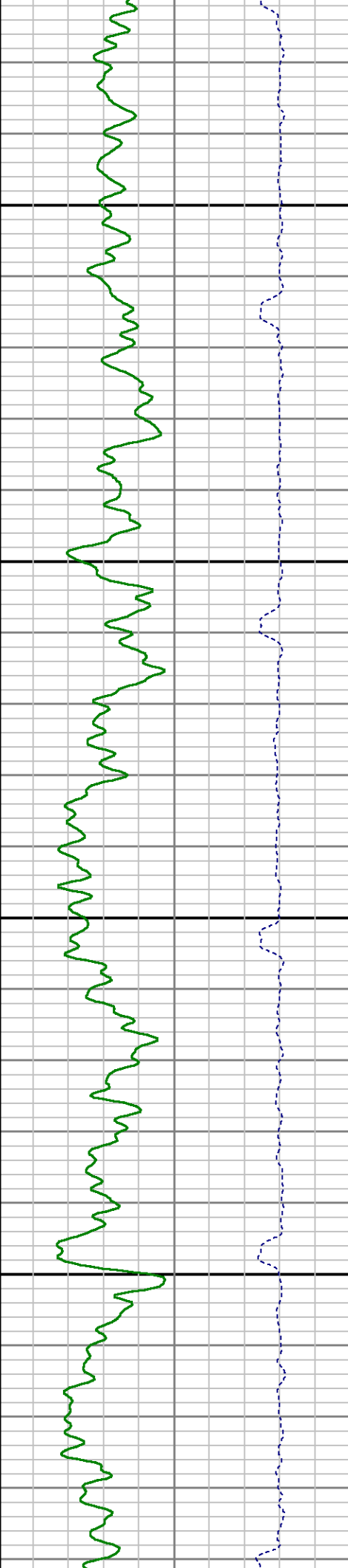
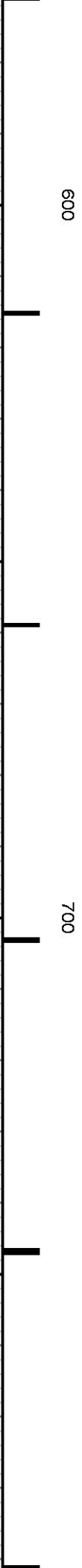
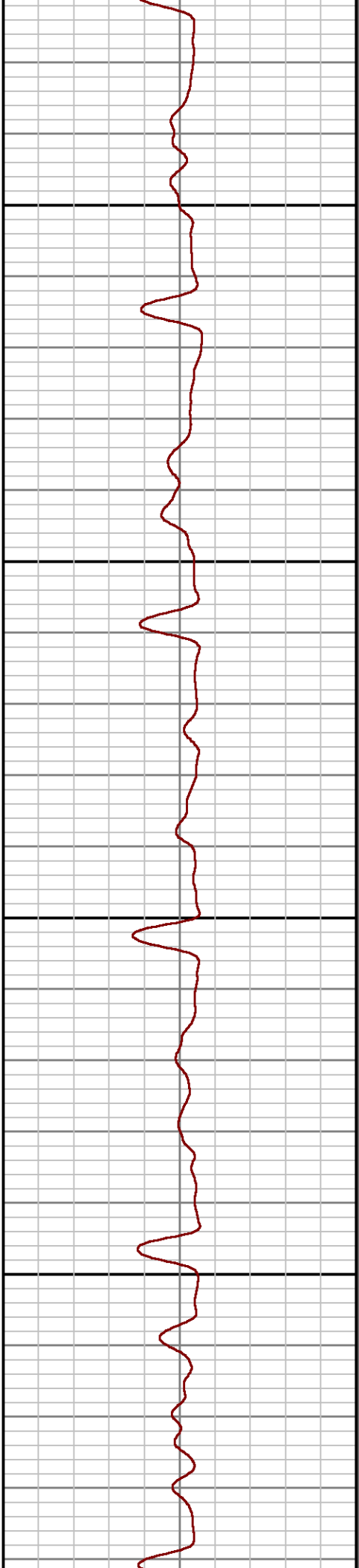
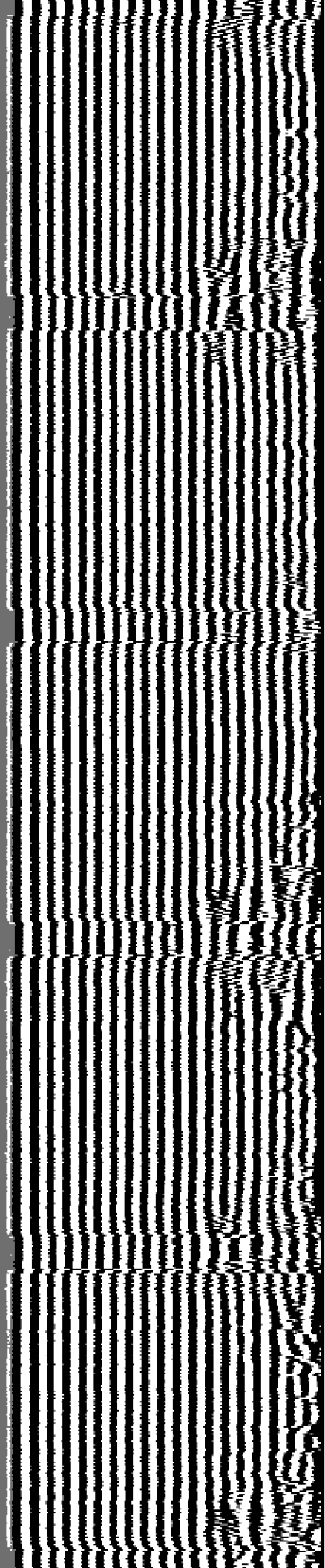


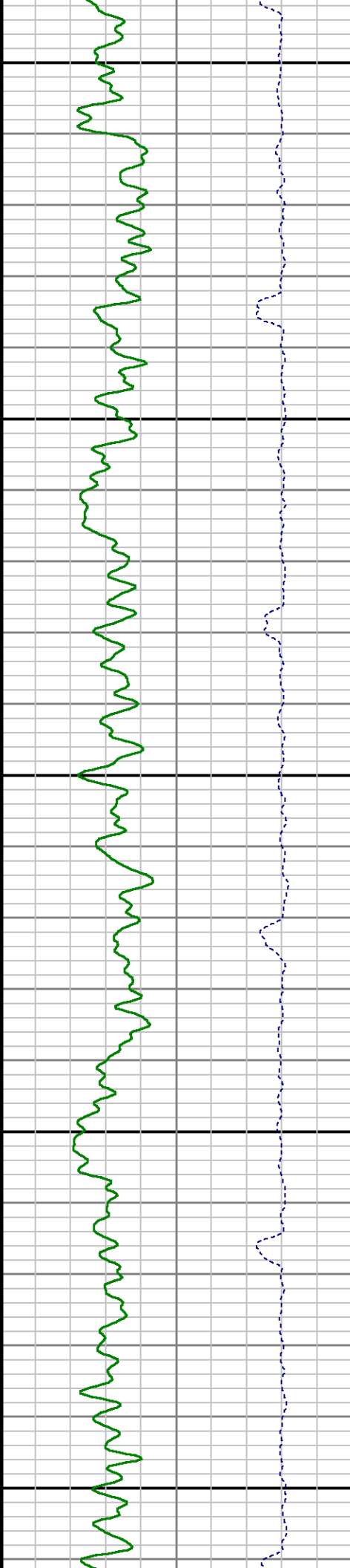
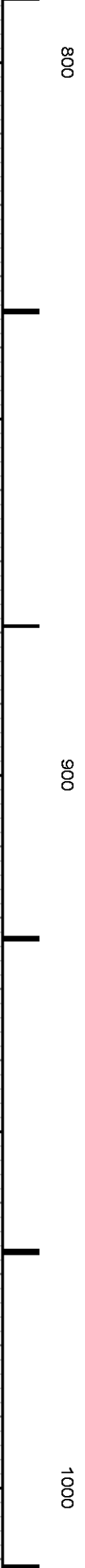
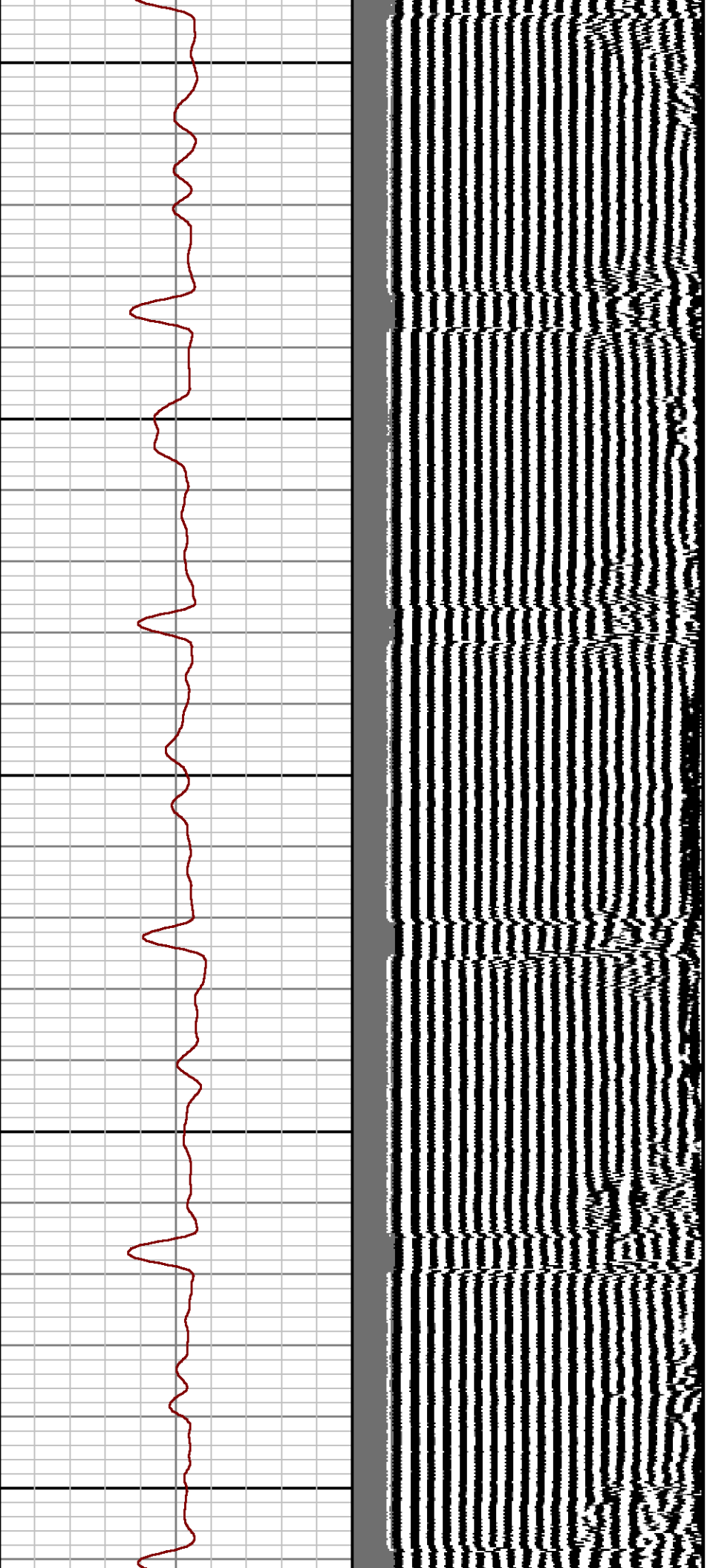
200

300

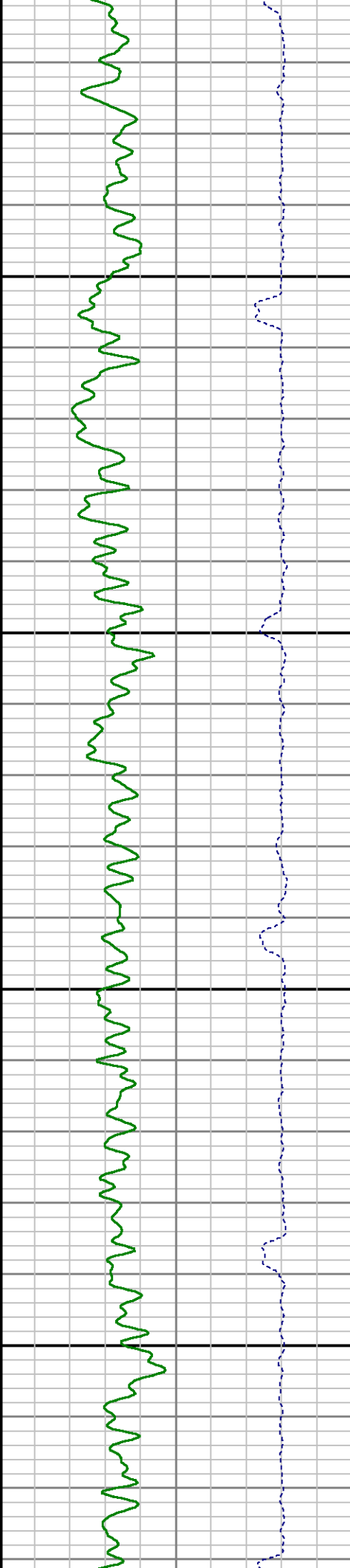
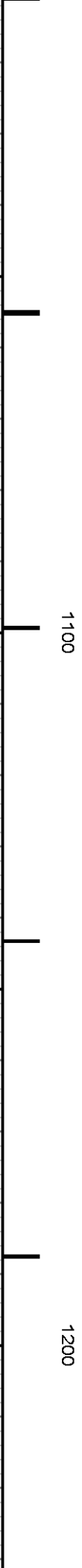
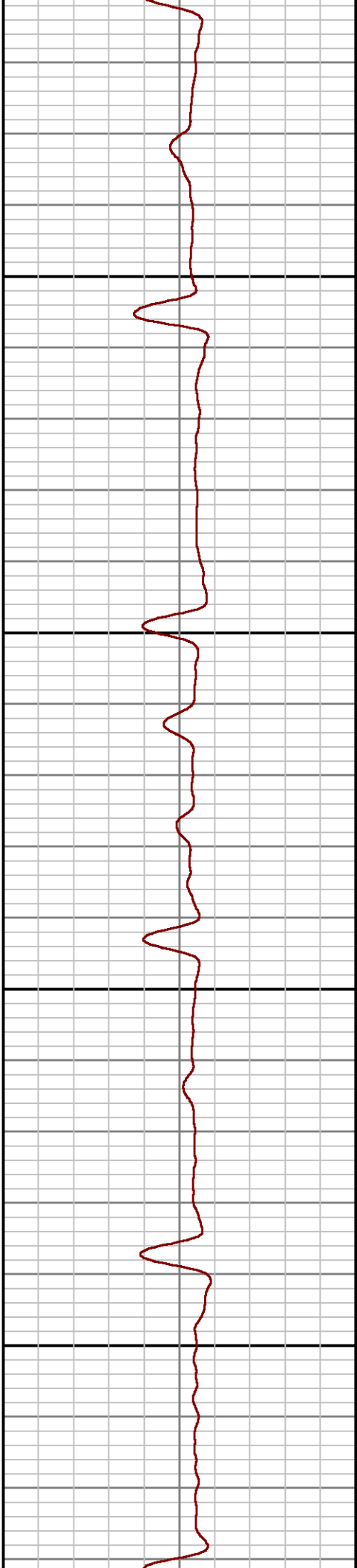
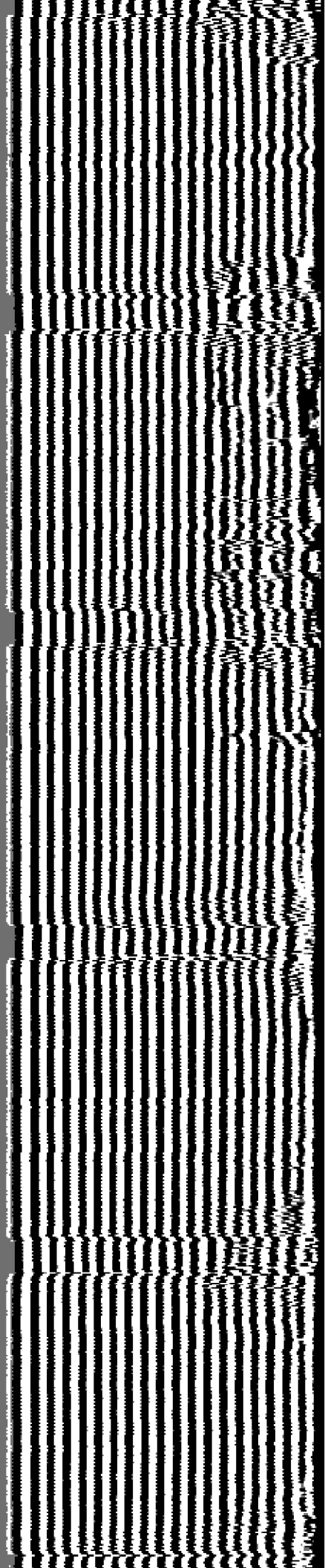




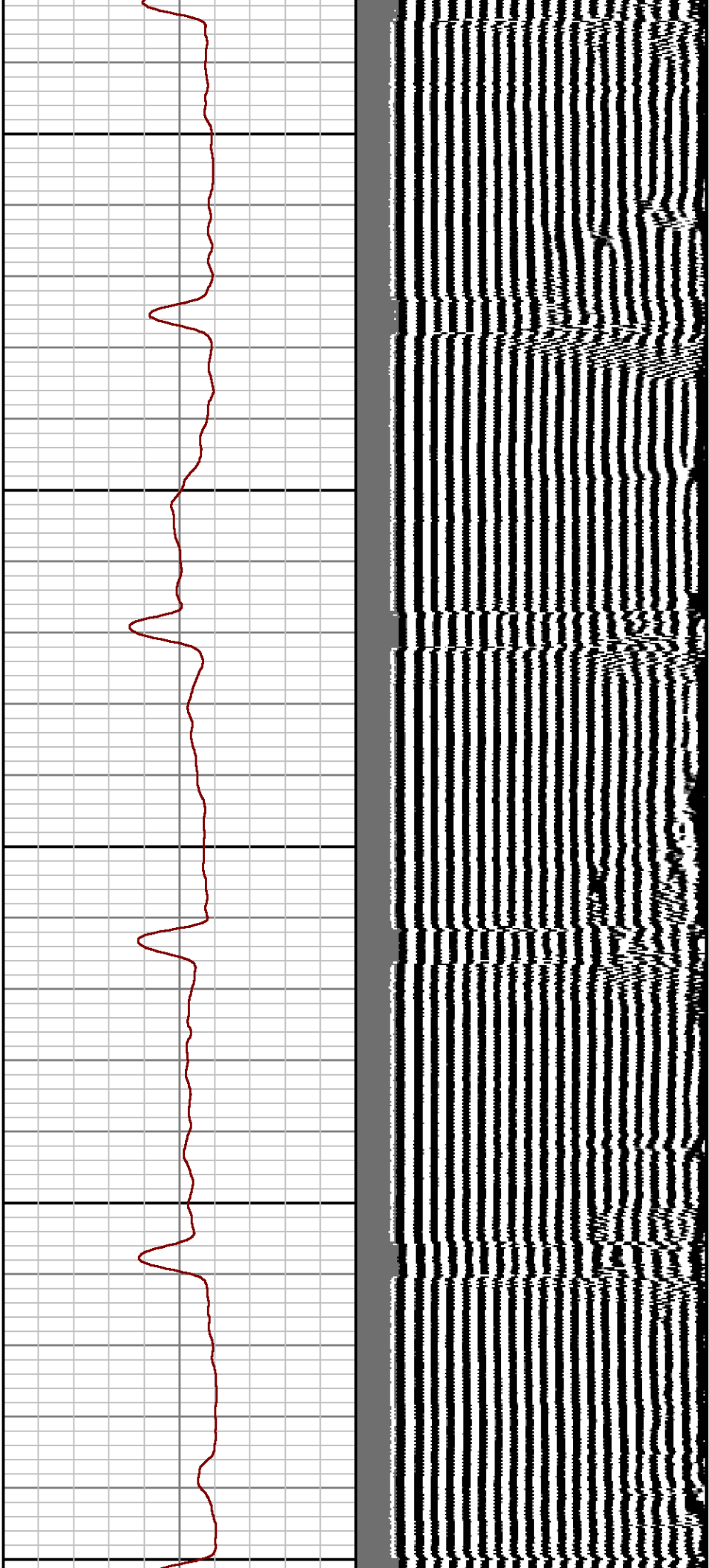






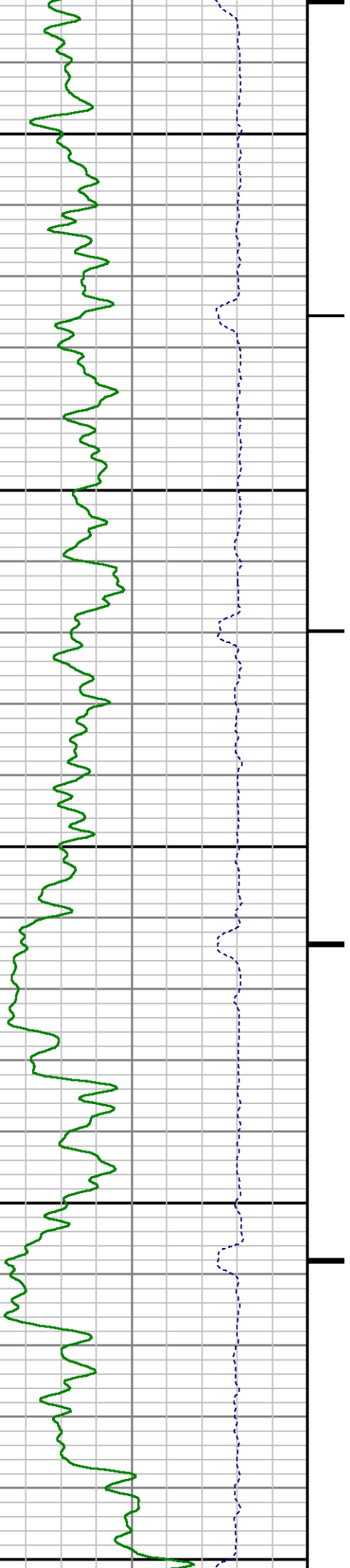


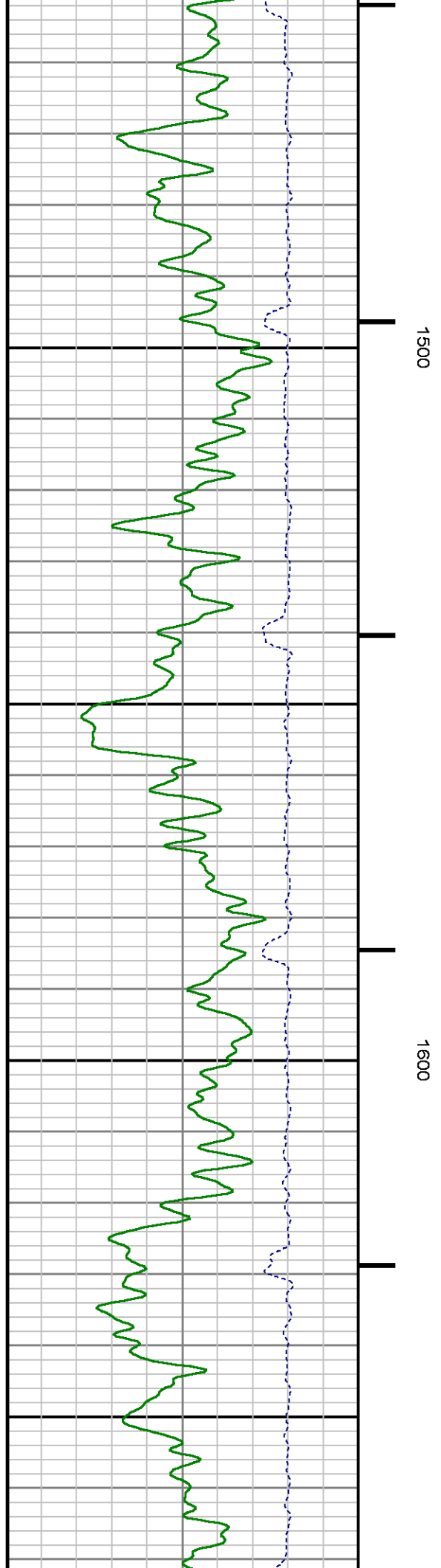
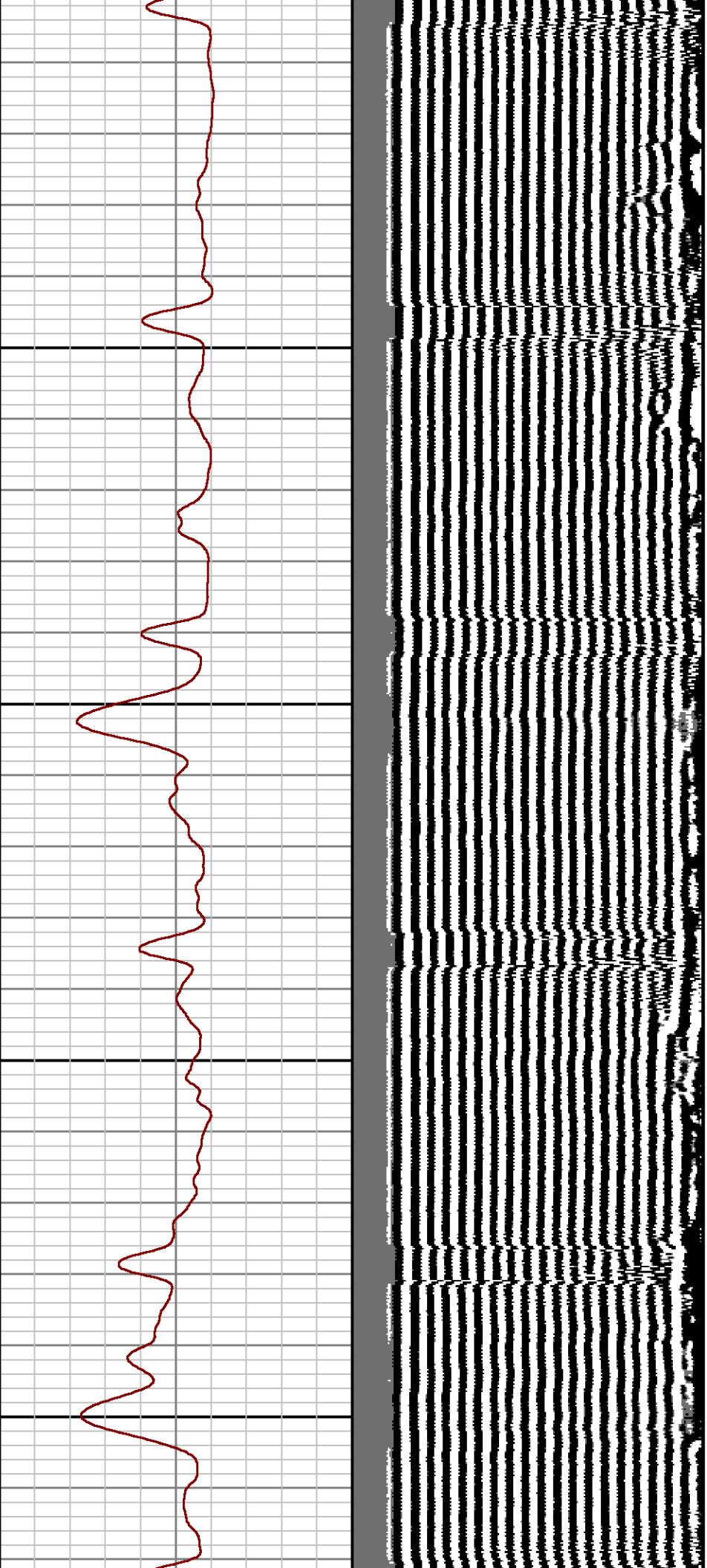


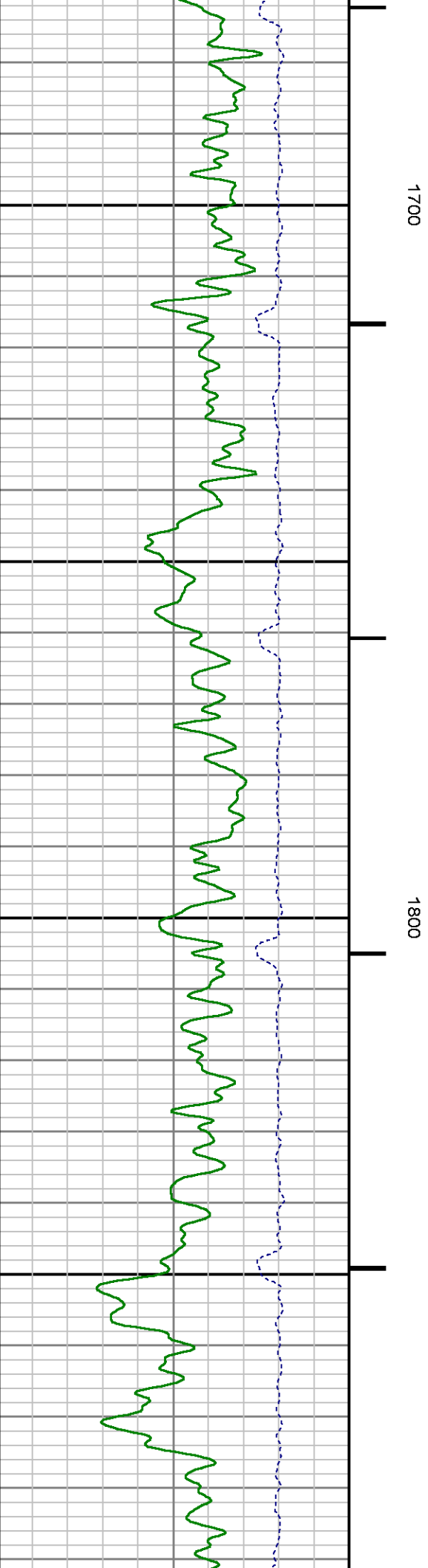
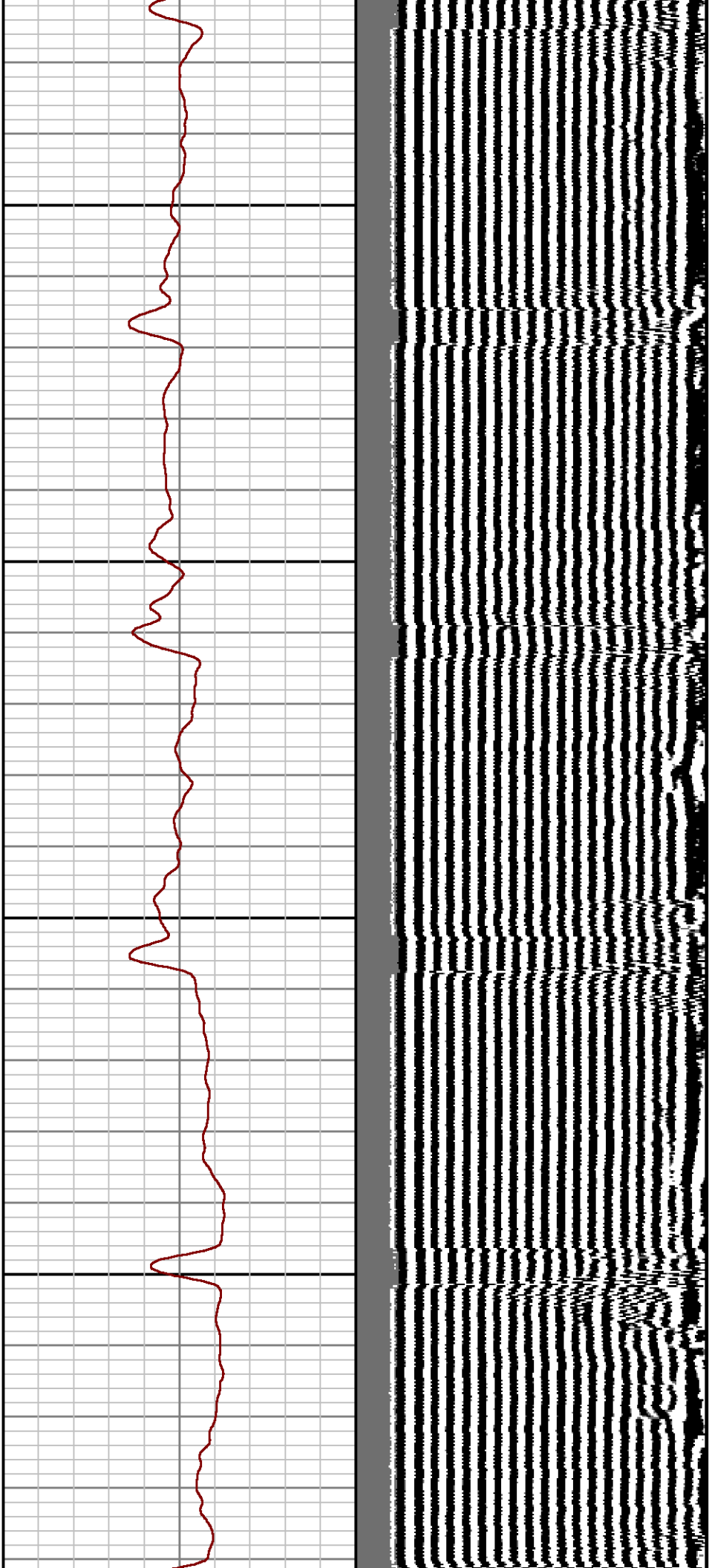


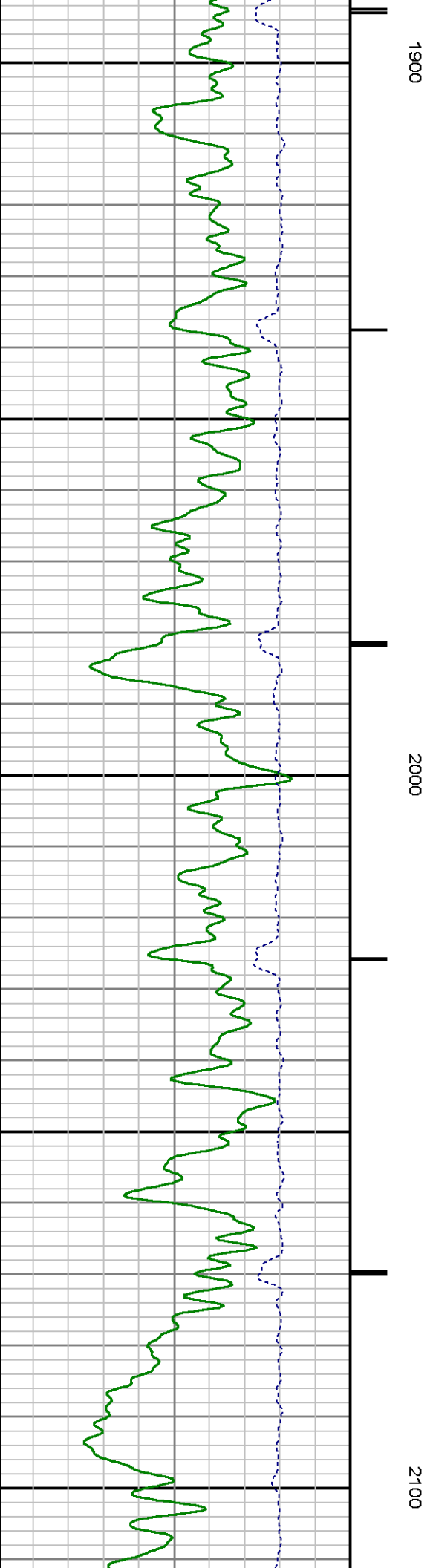
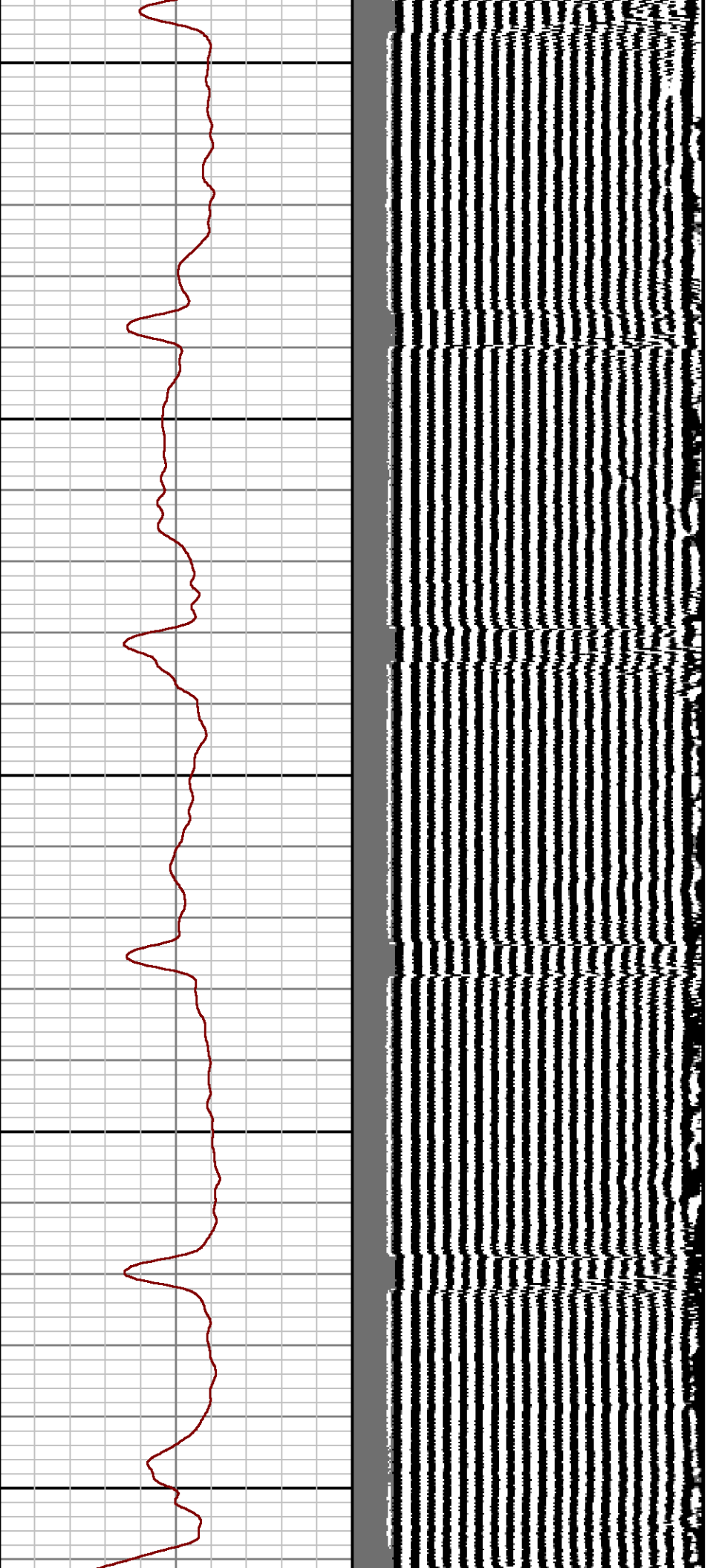
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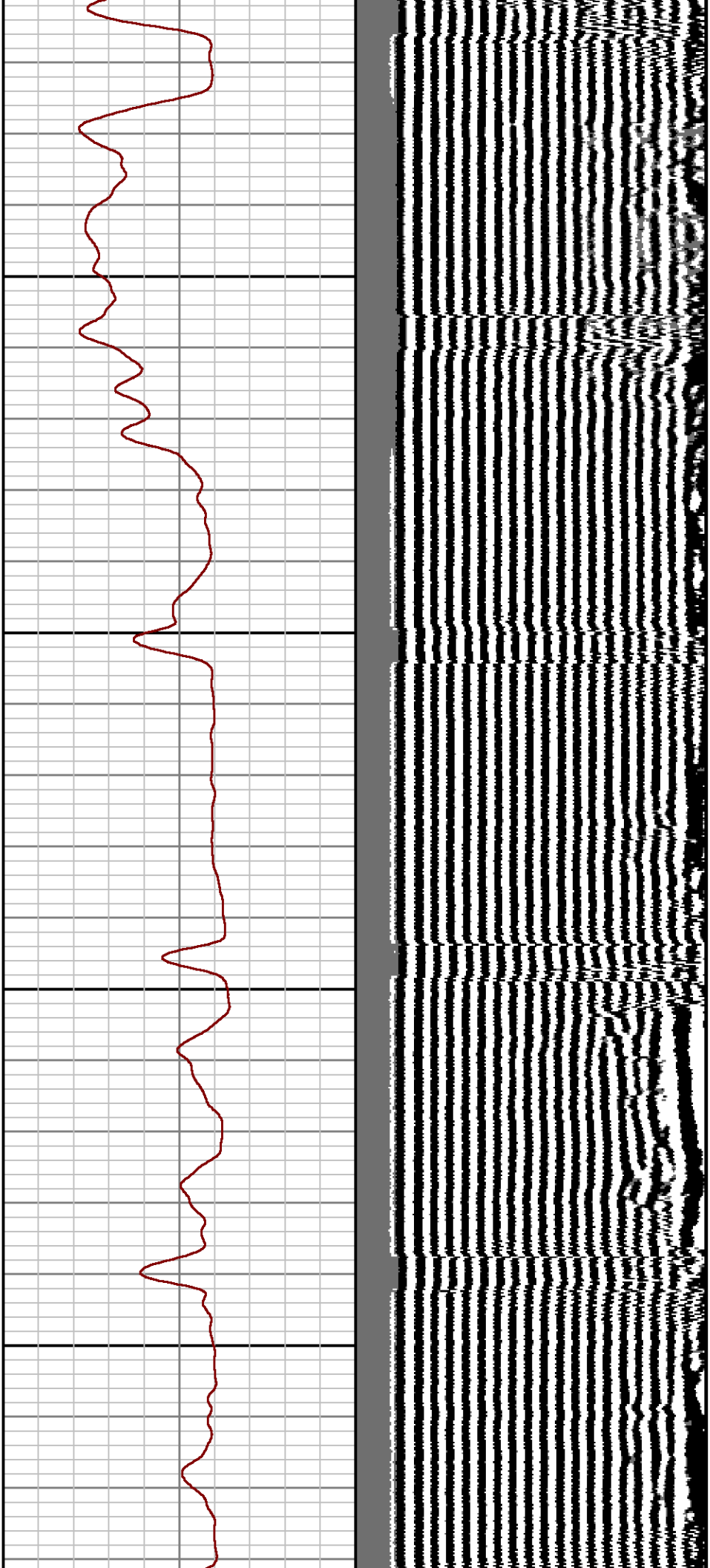
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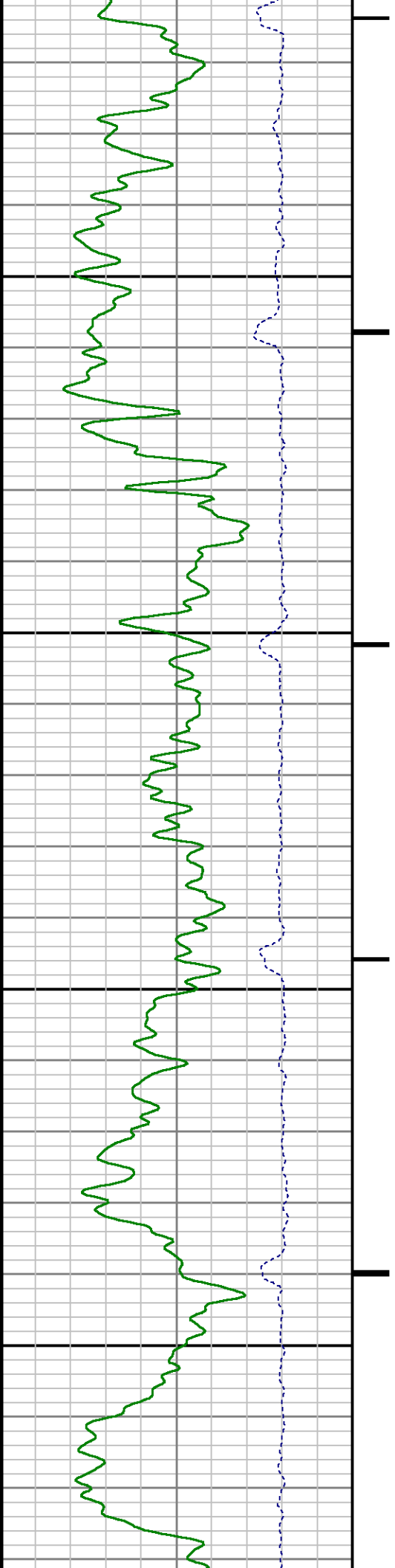




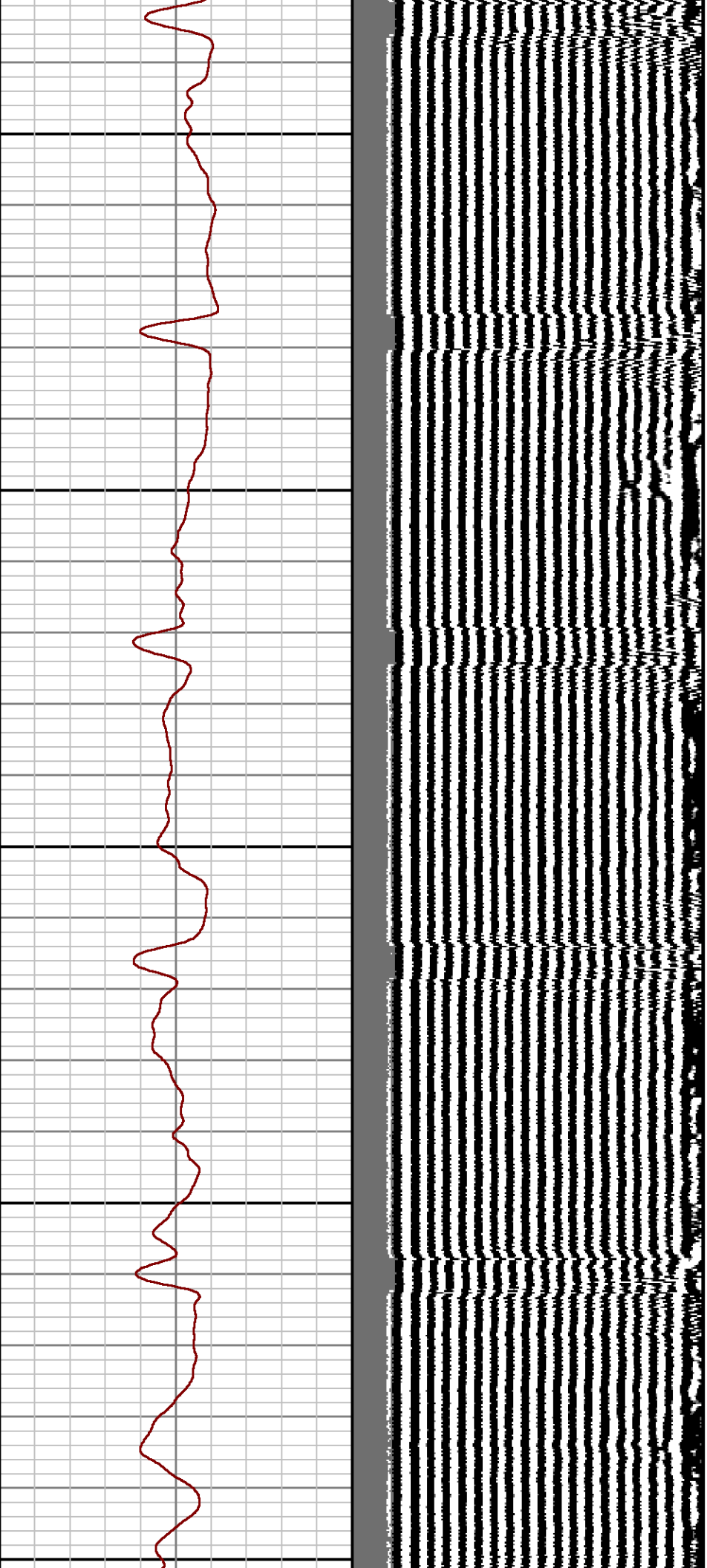


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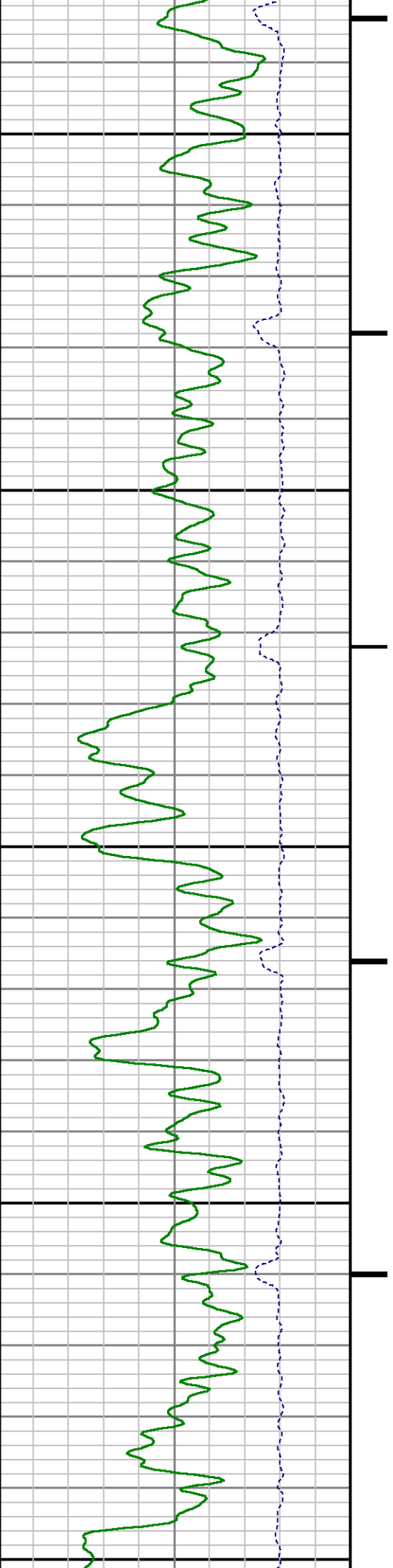


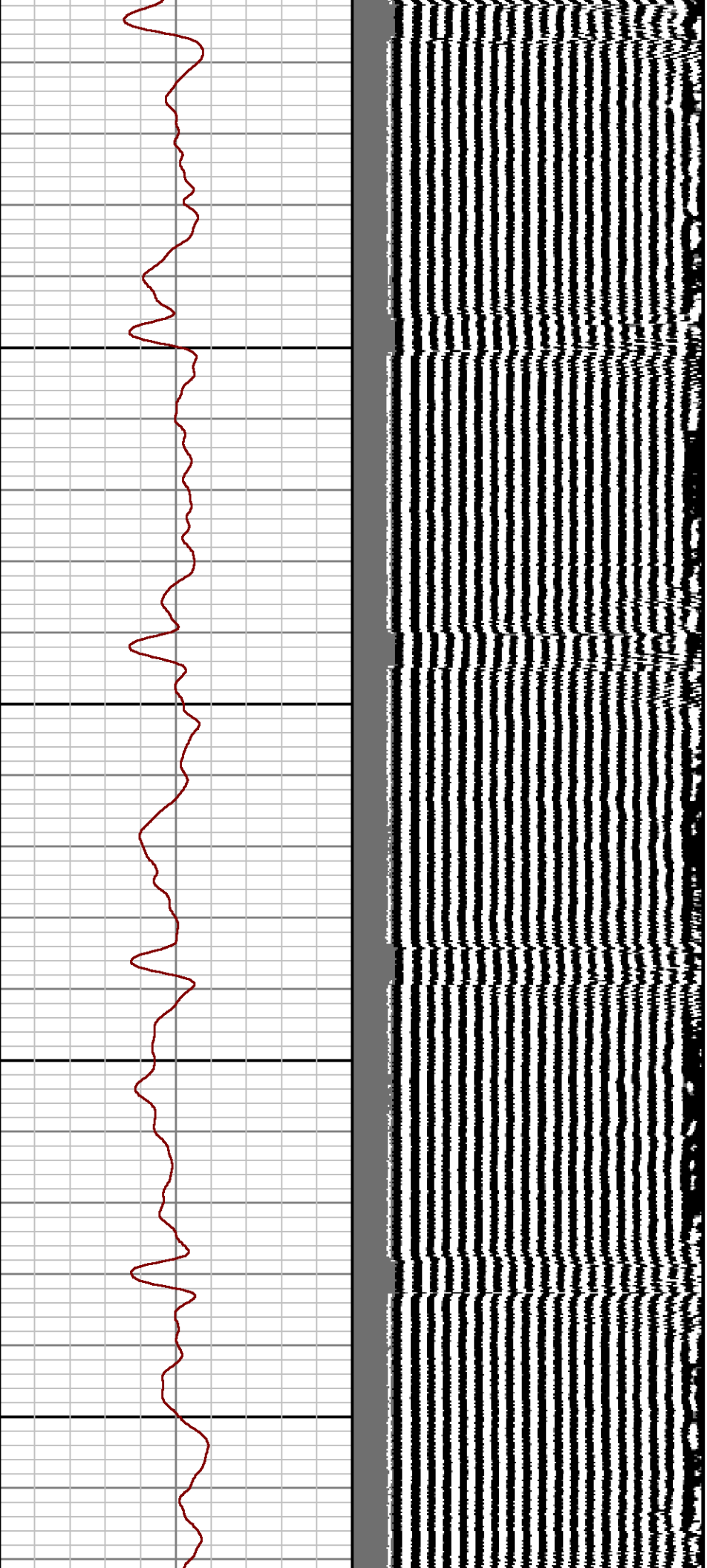




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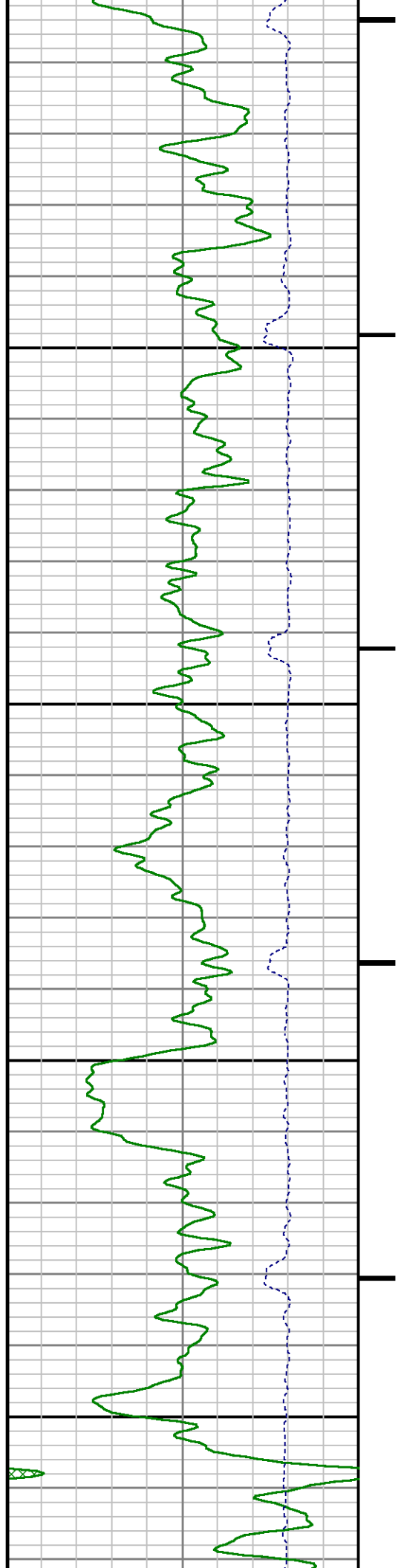
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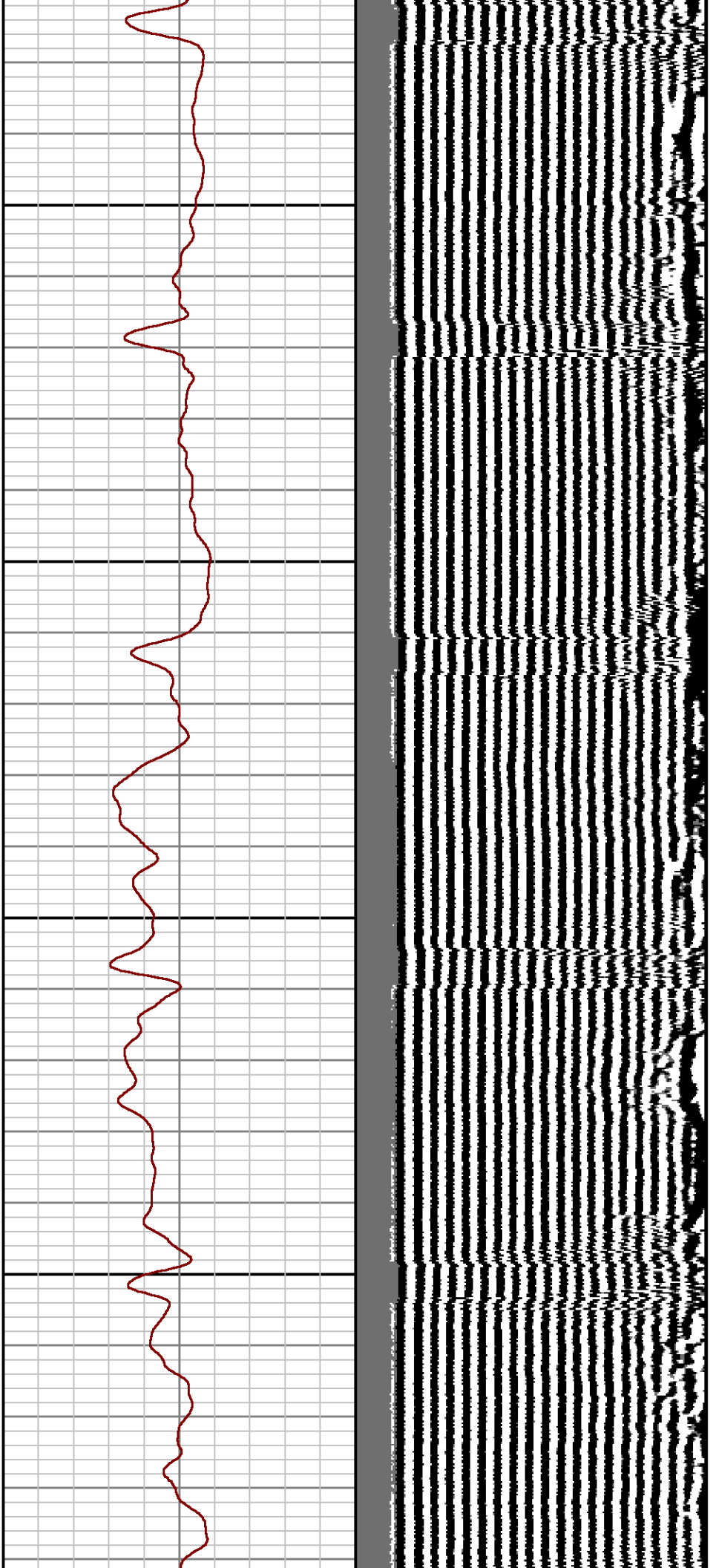


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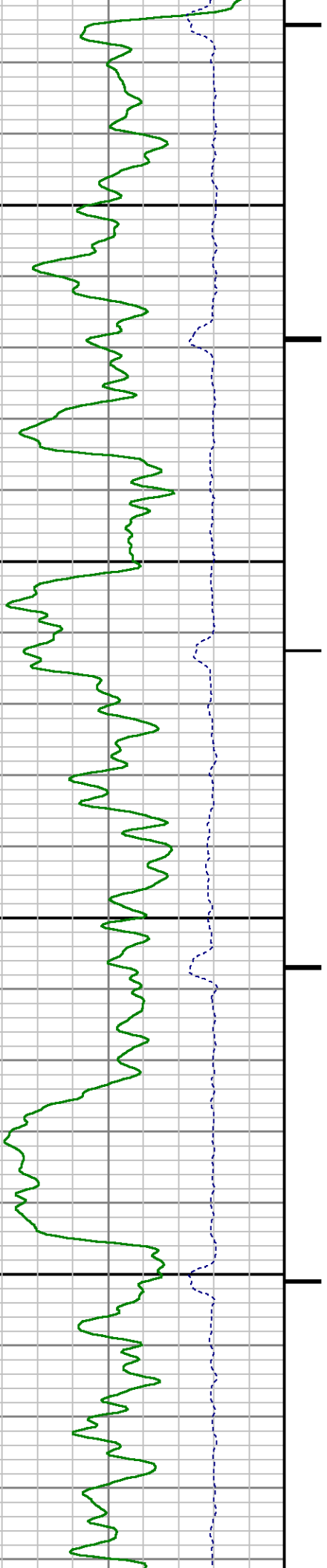


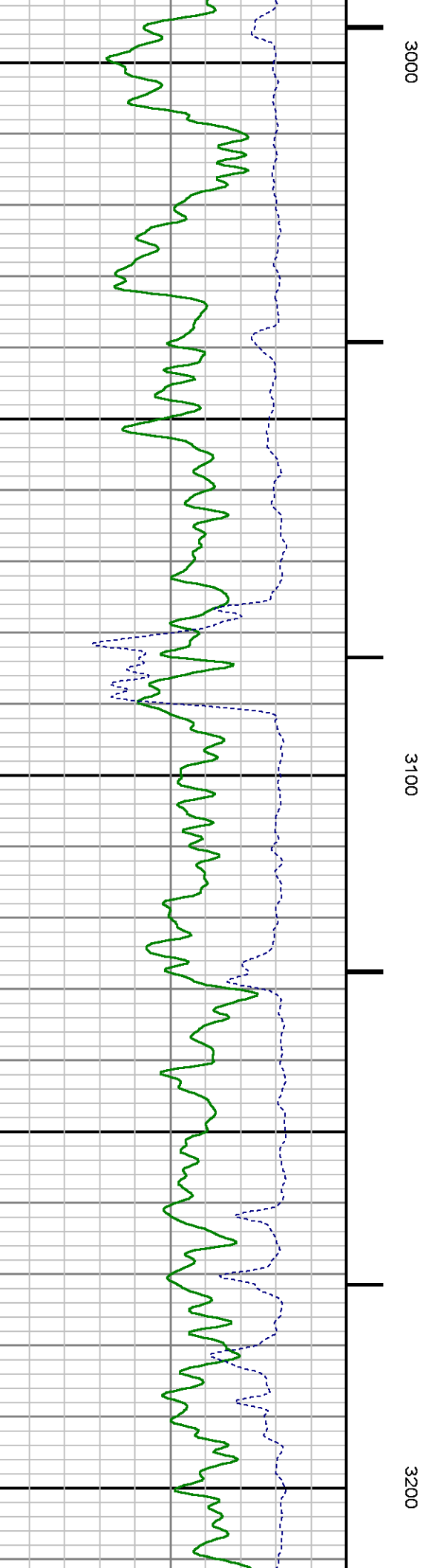
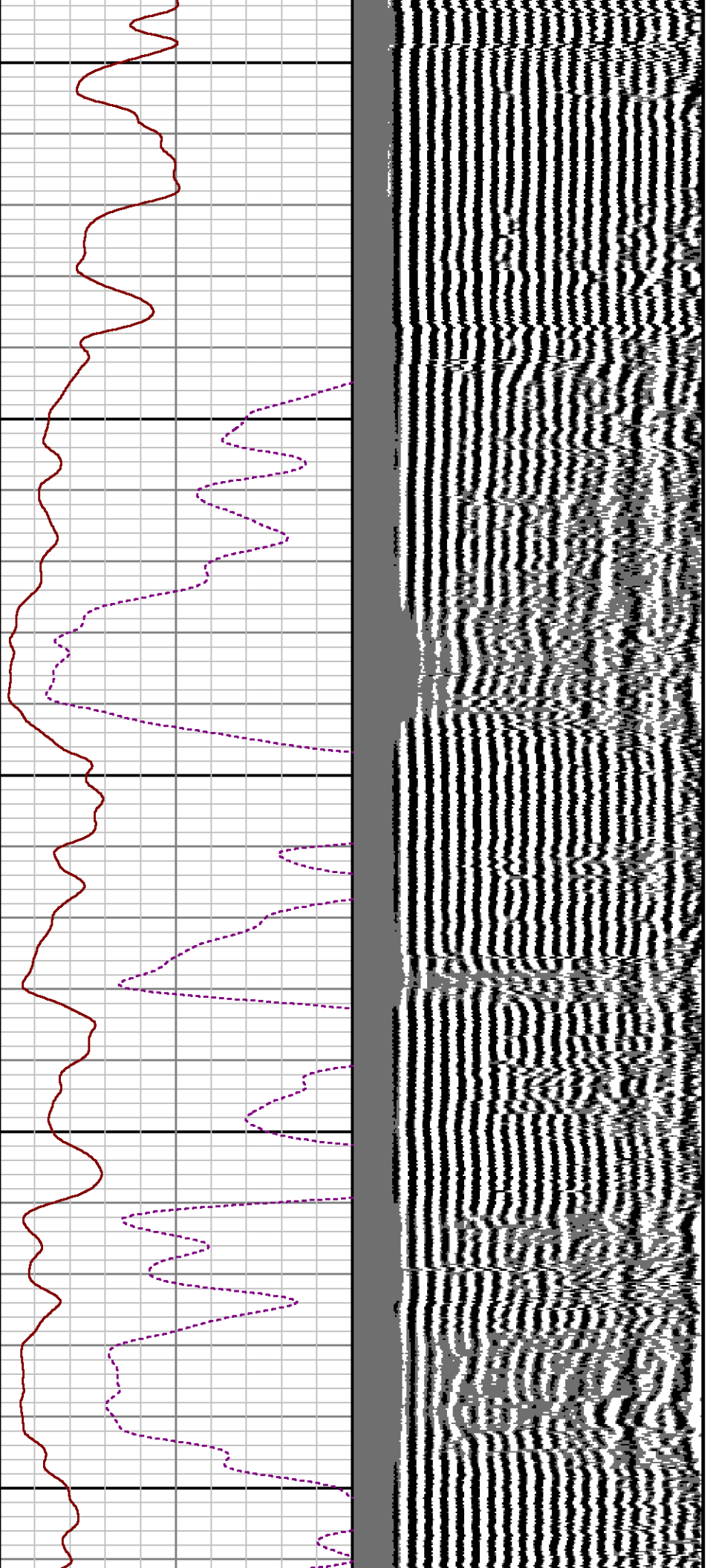


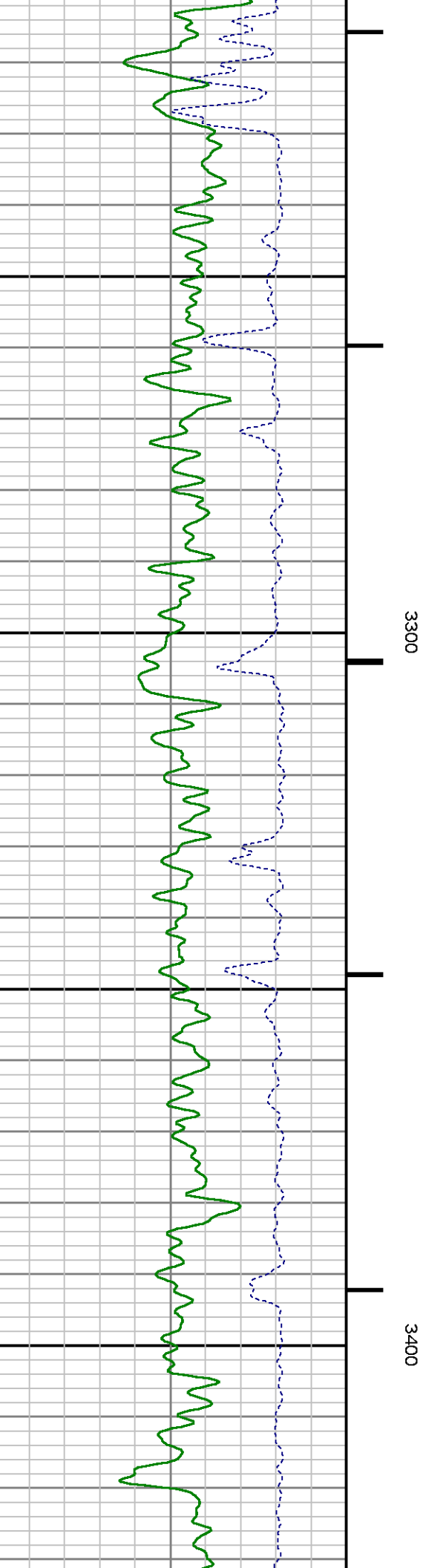
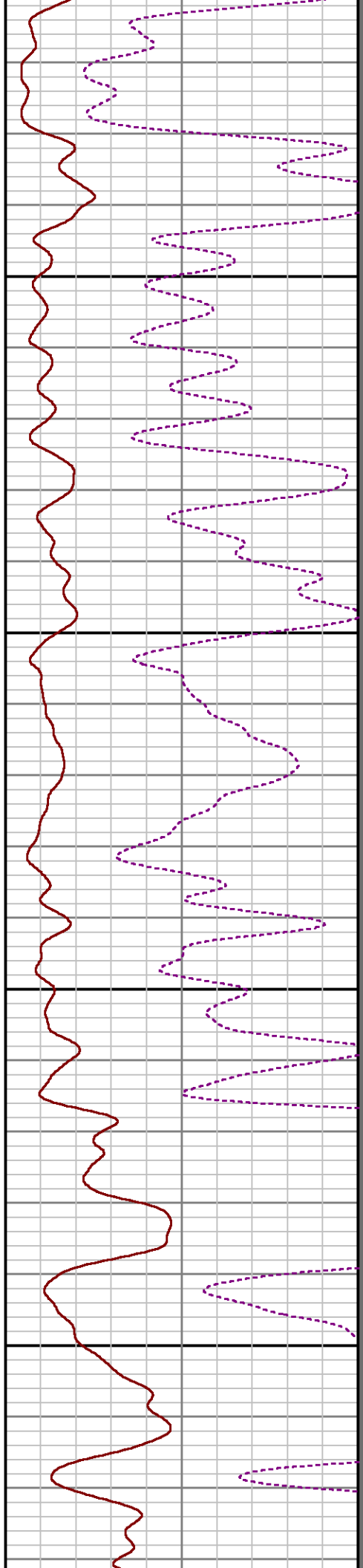
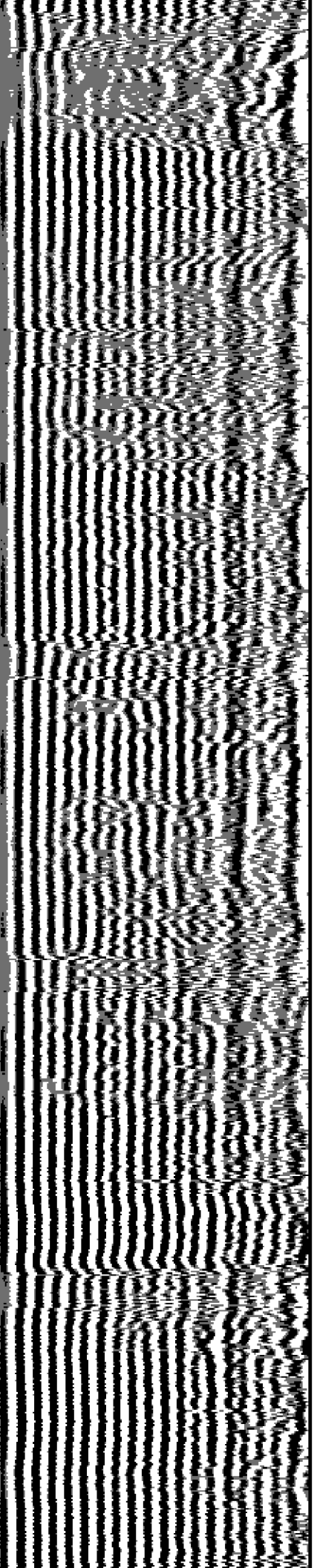


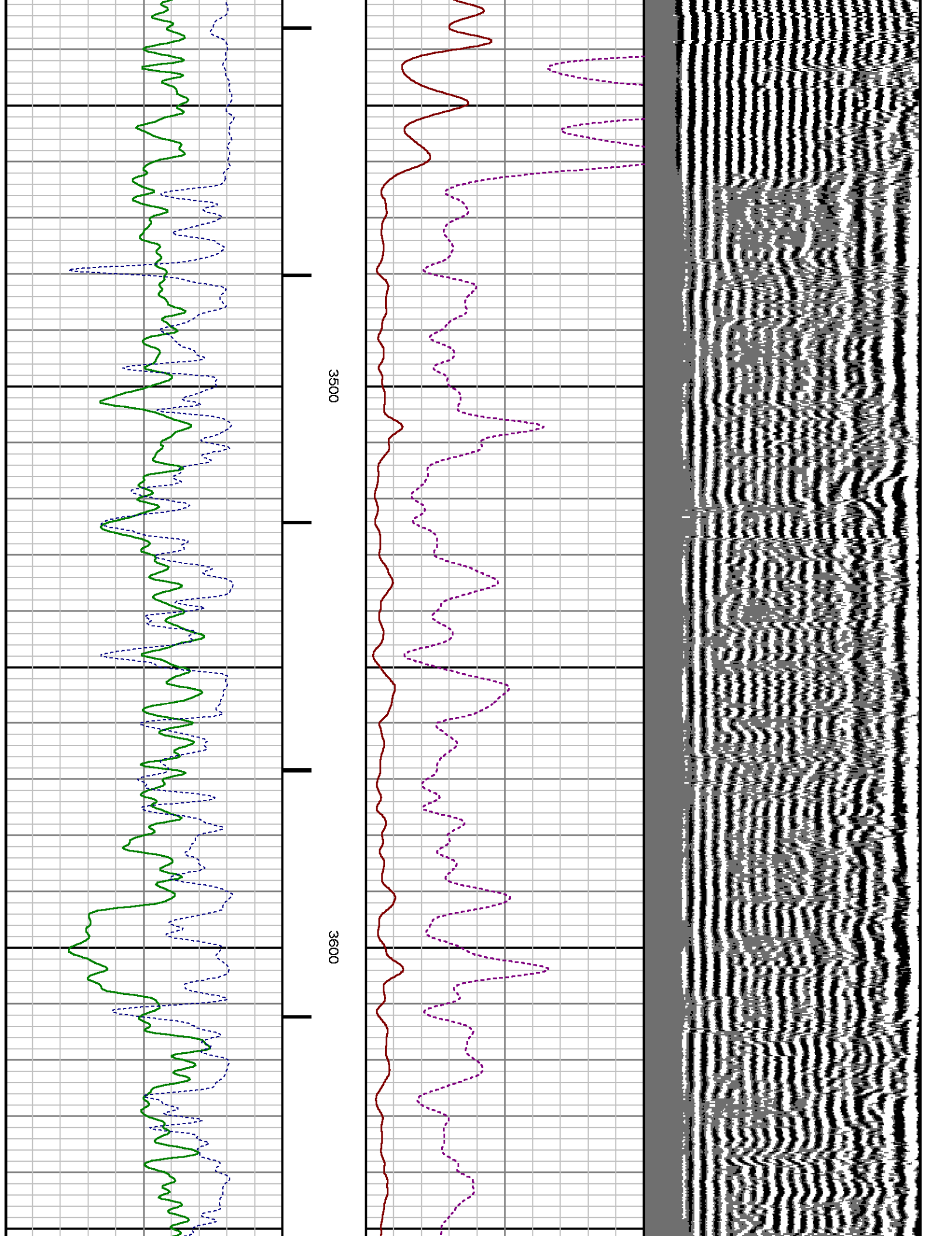
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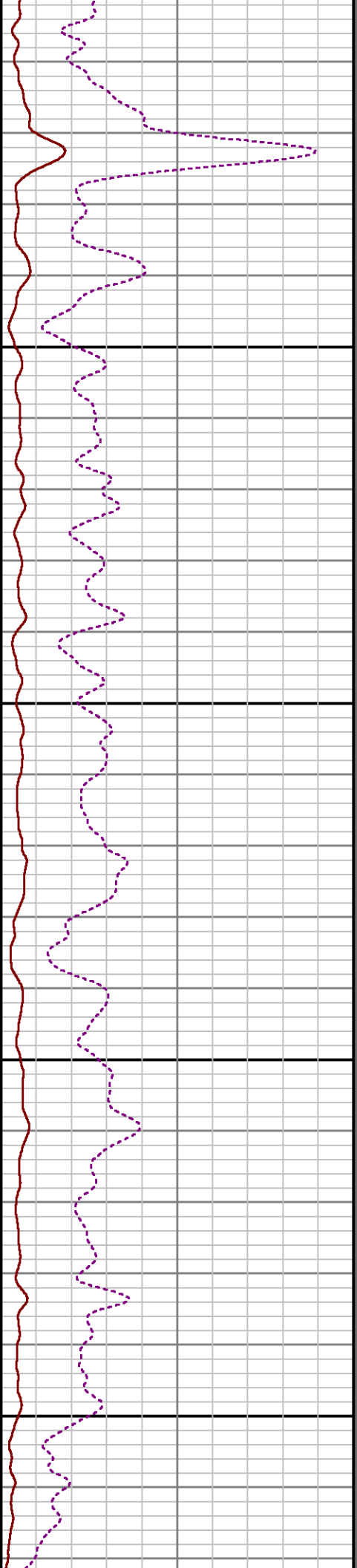
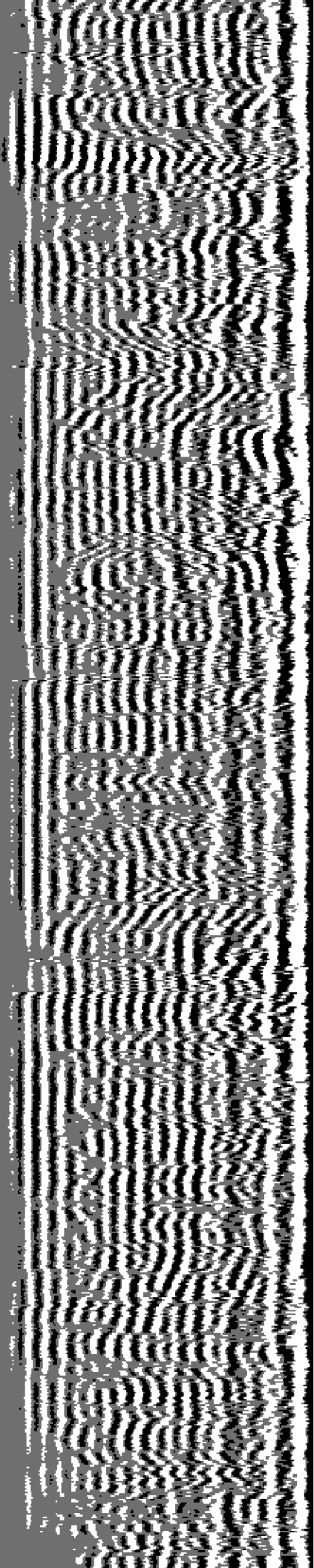






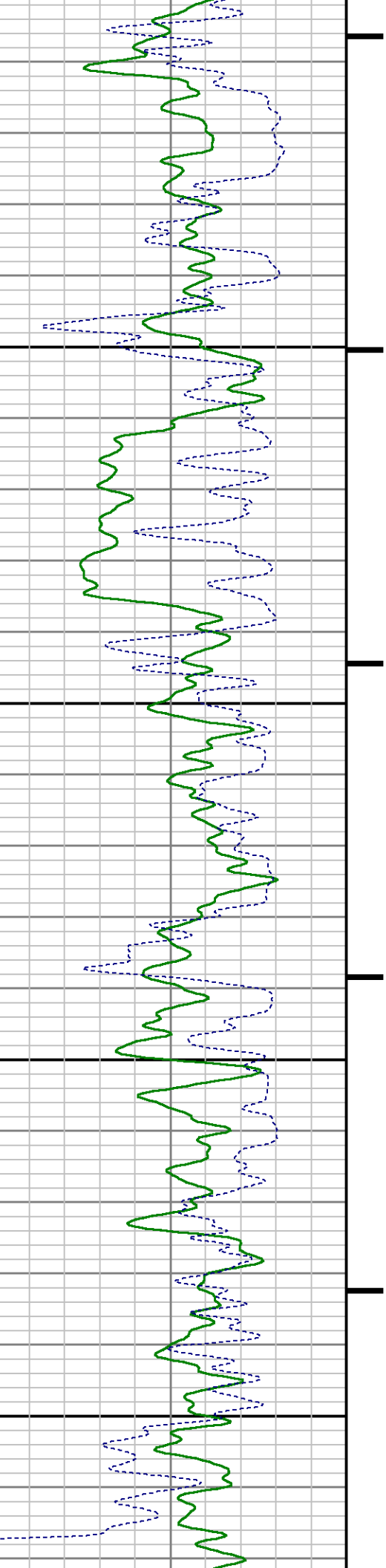


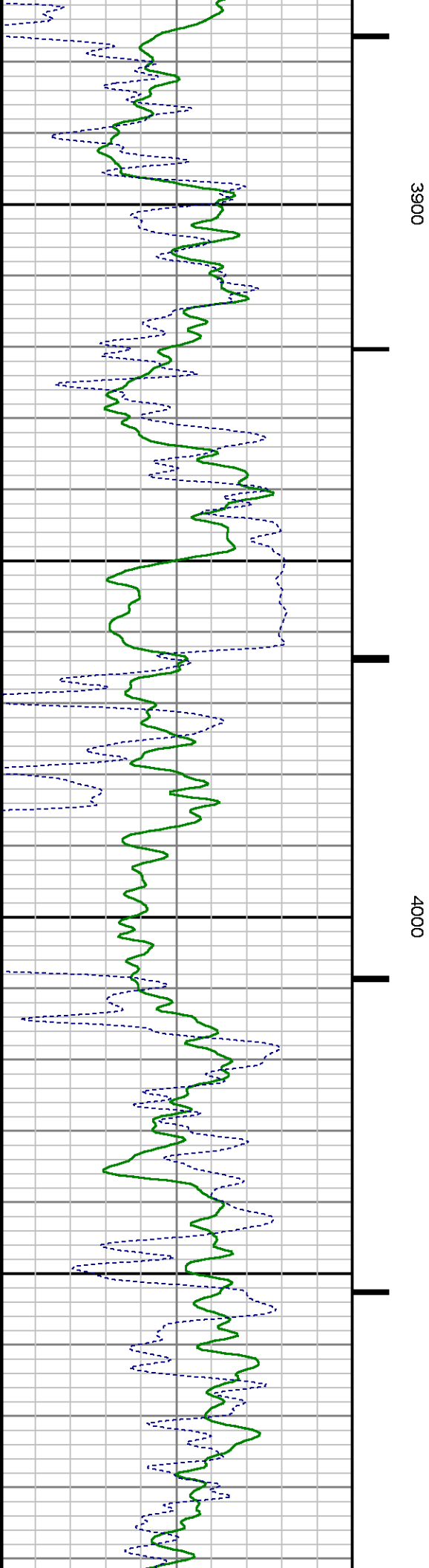
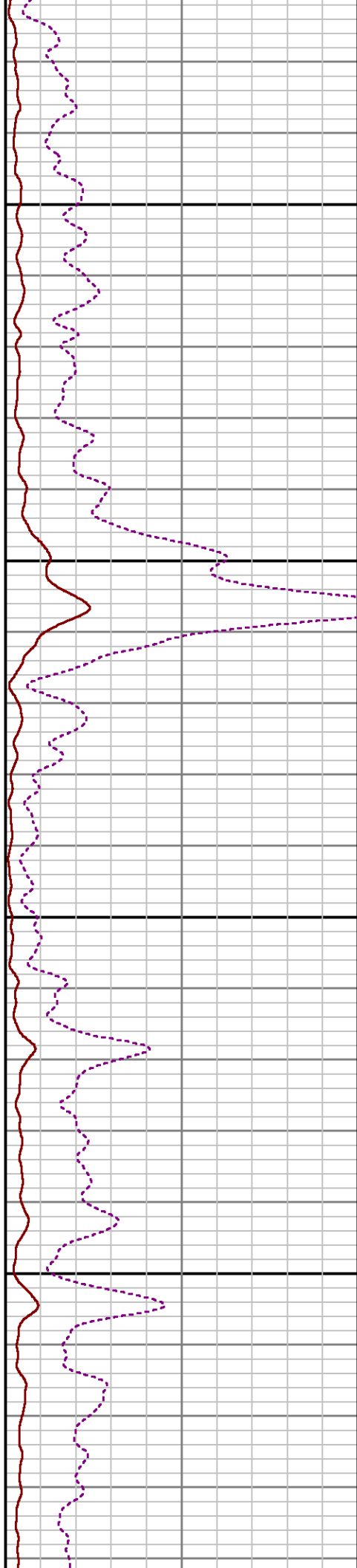
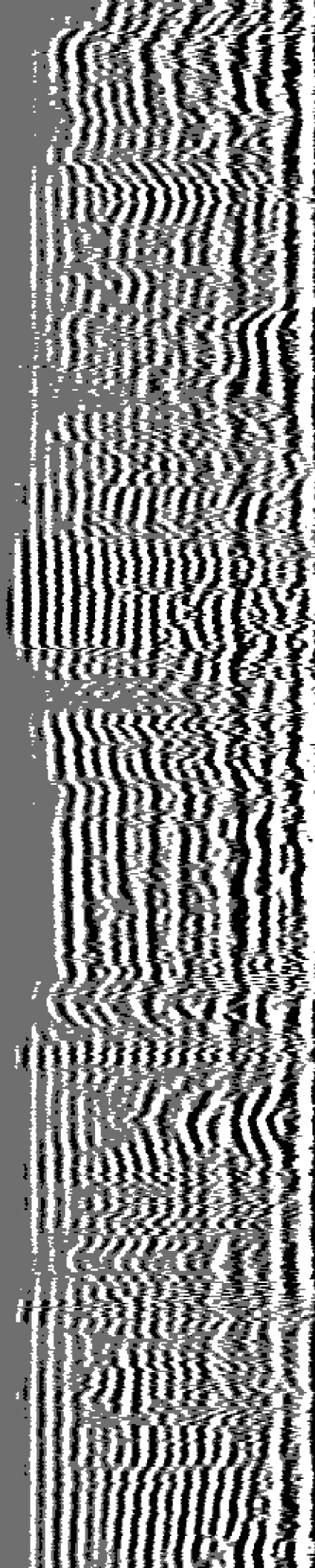


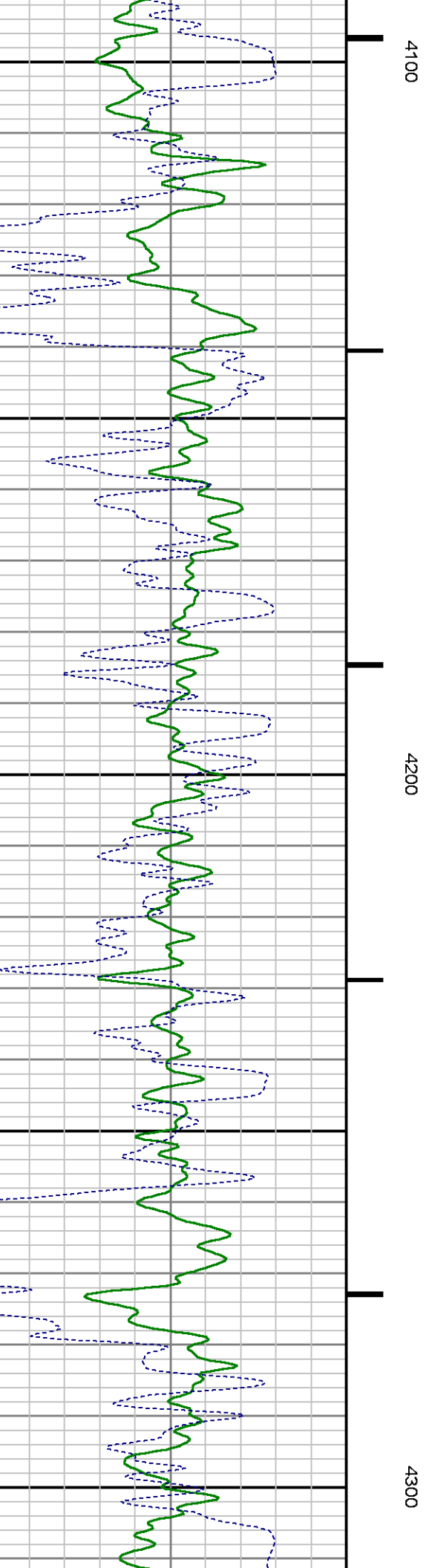
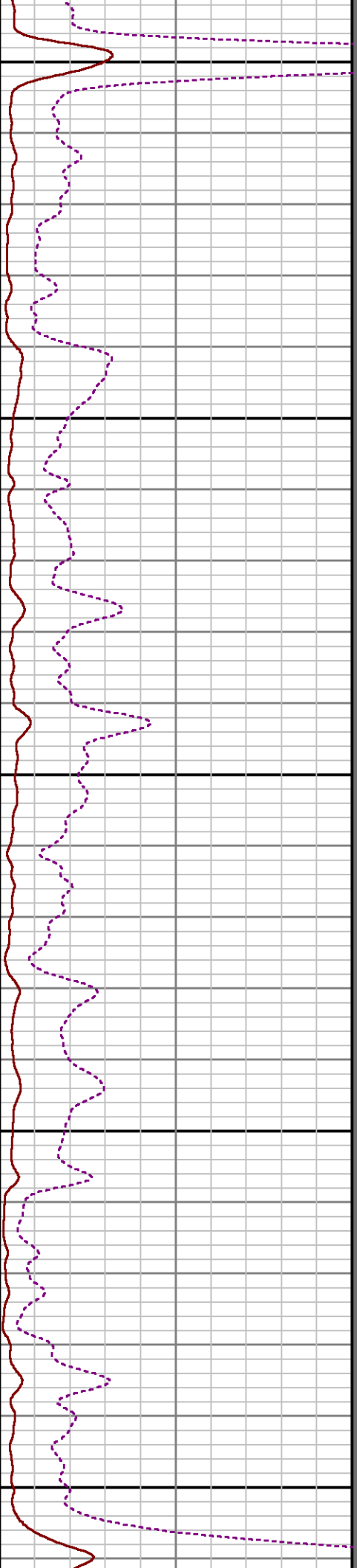
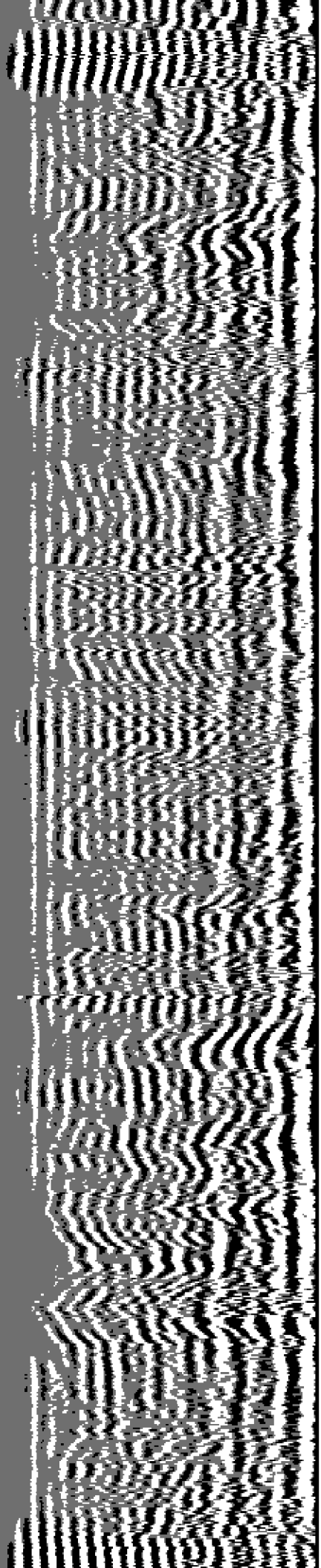


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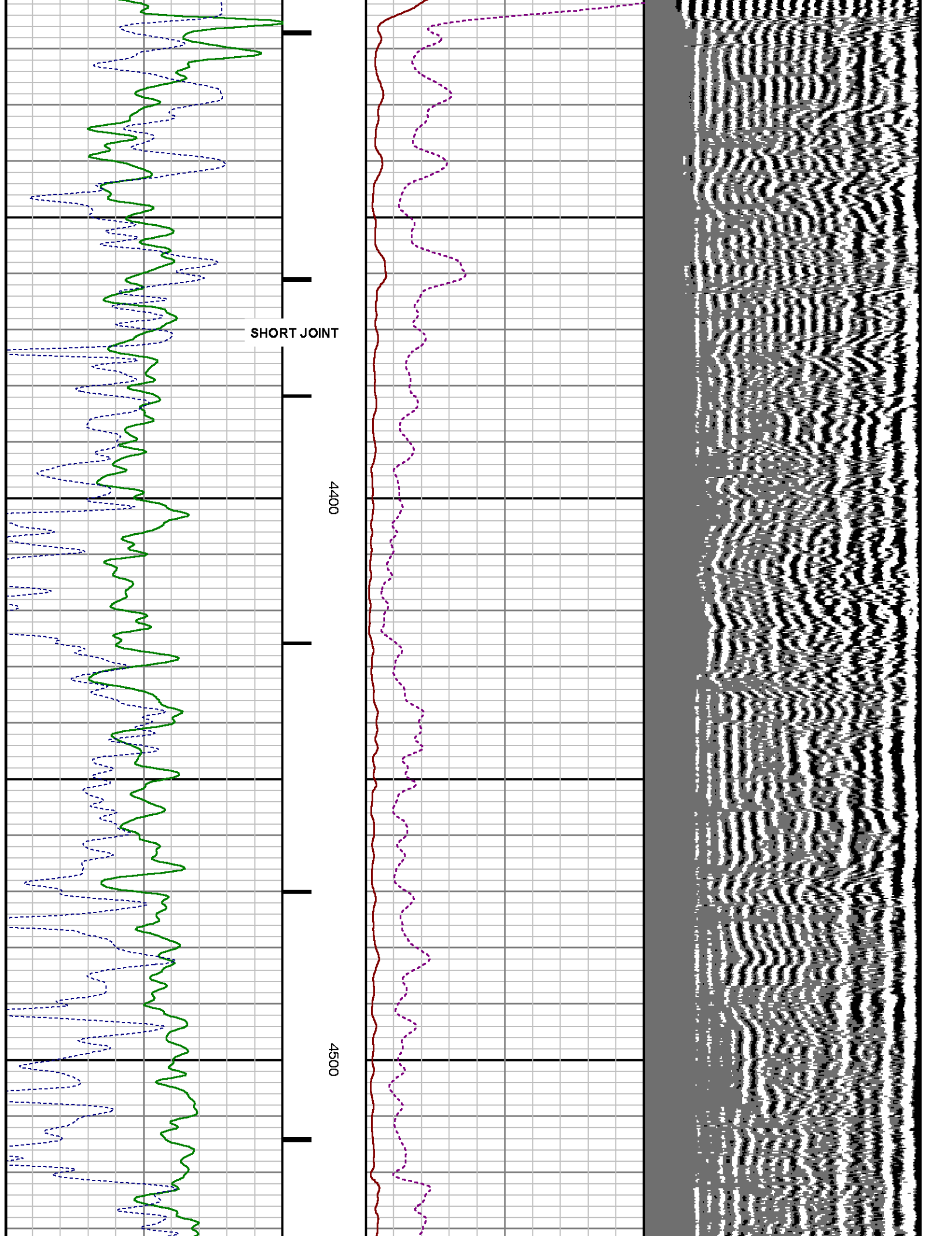
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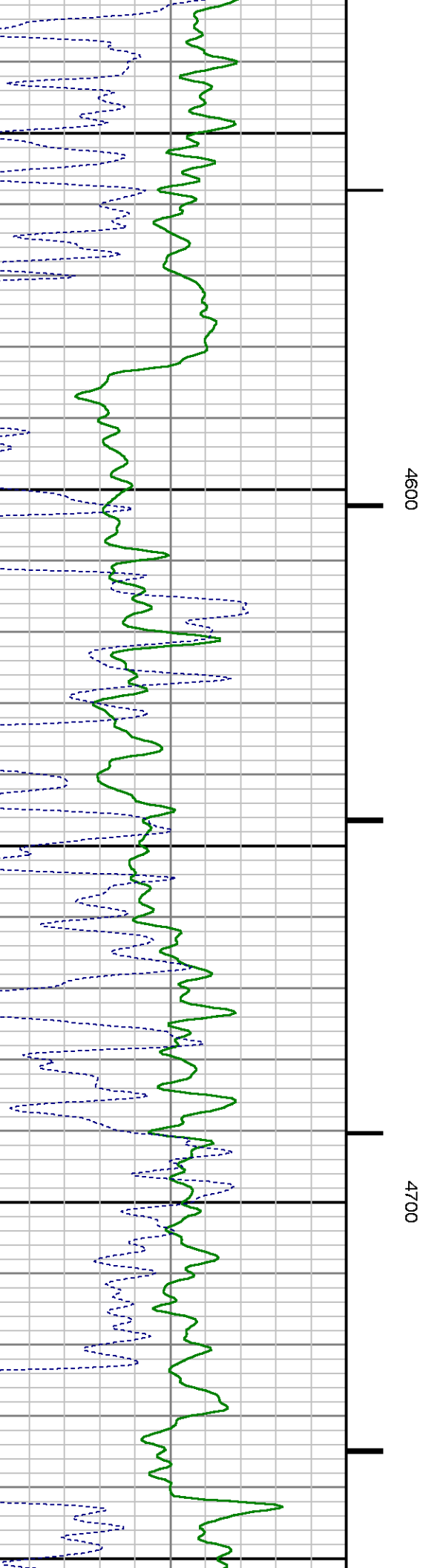
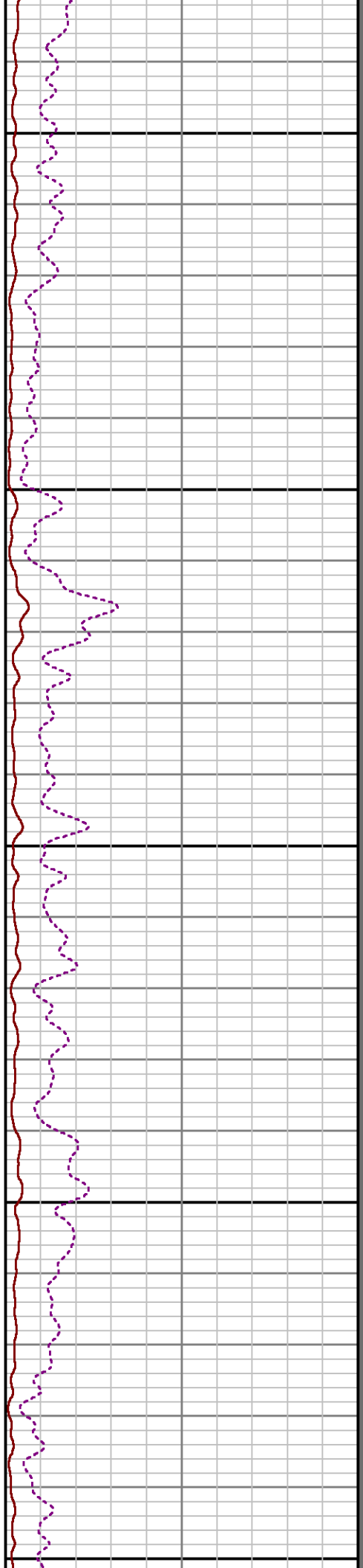
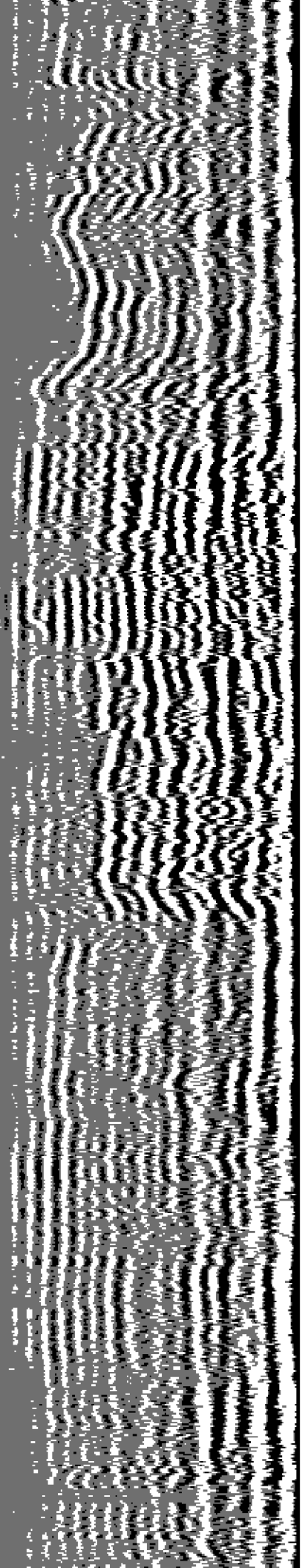


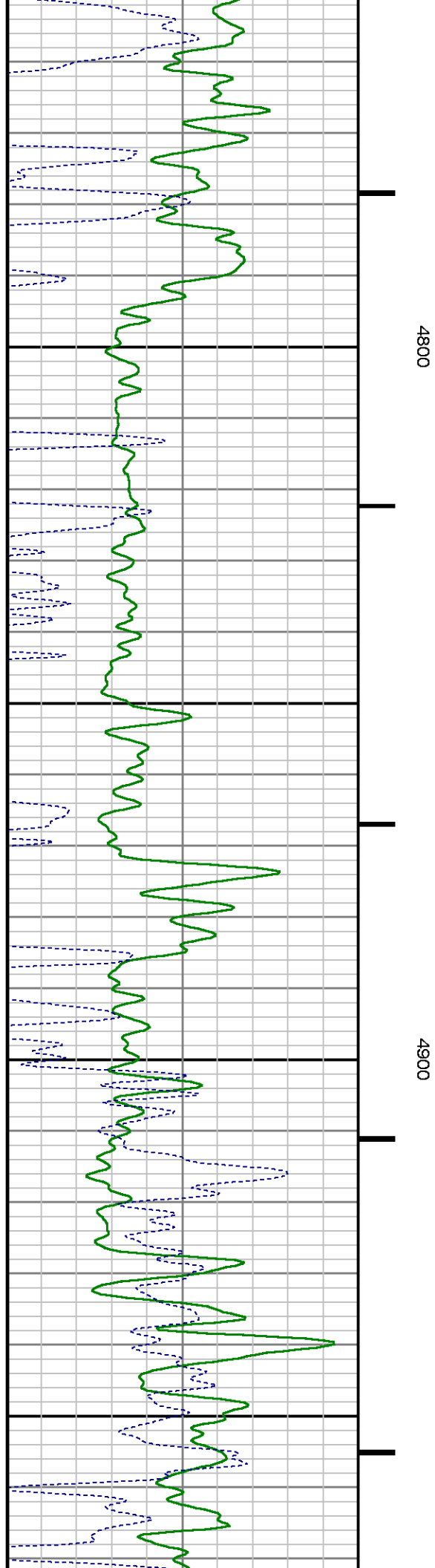
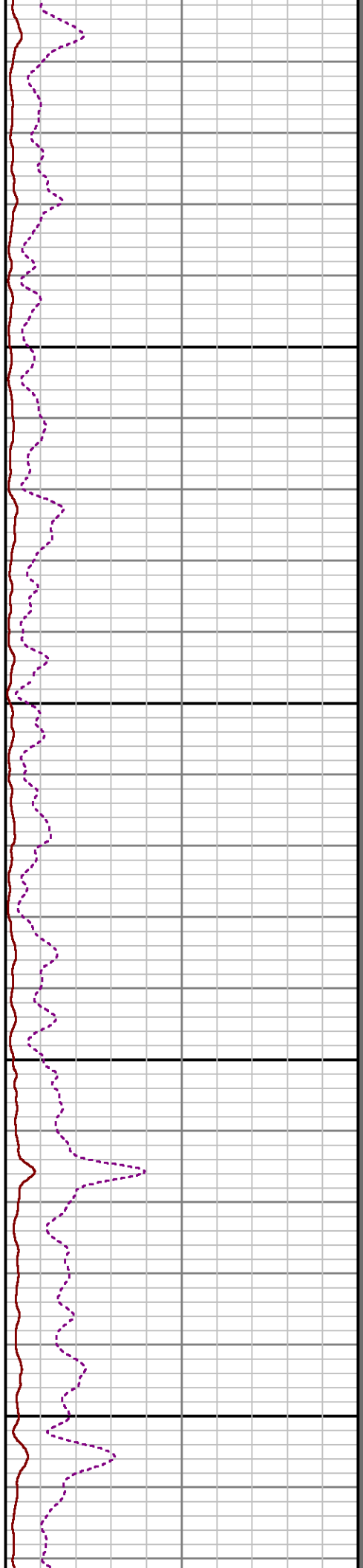
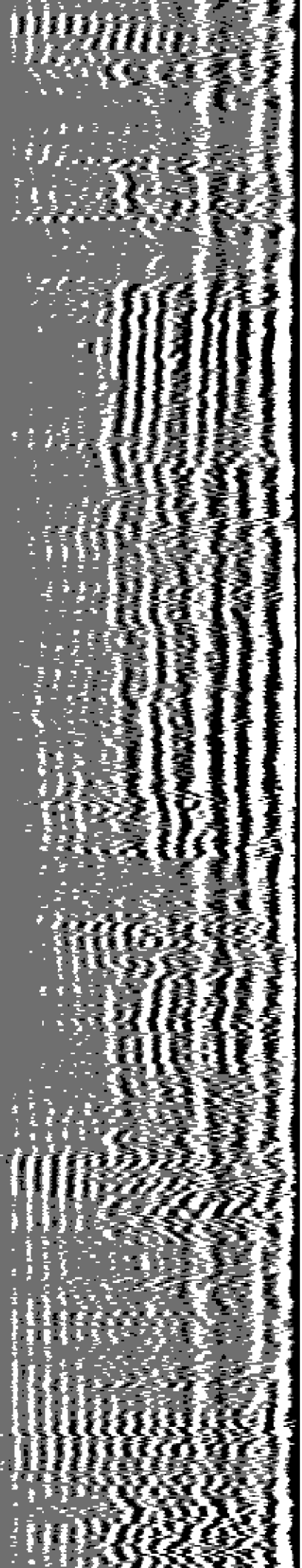


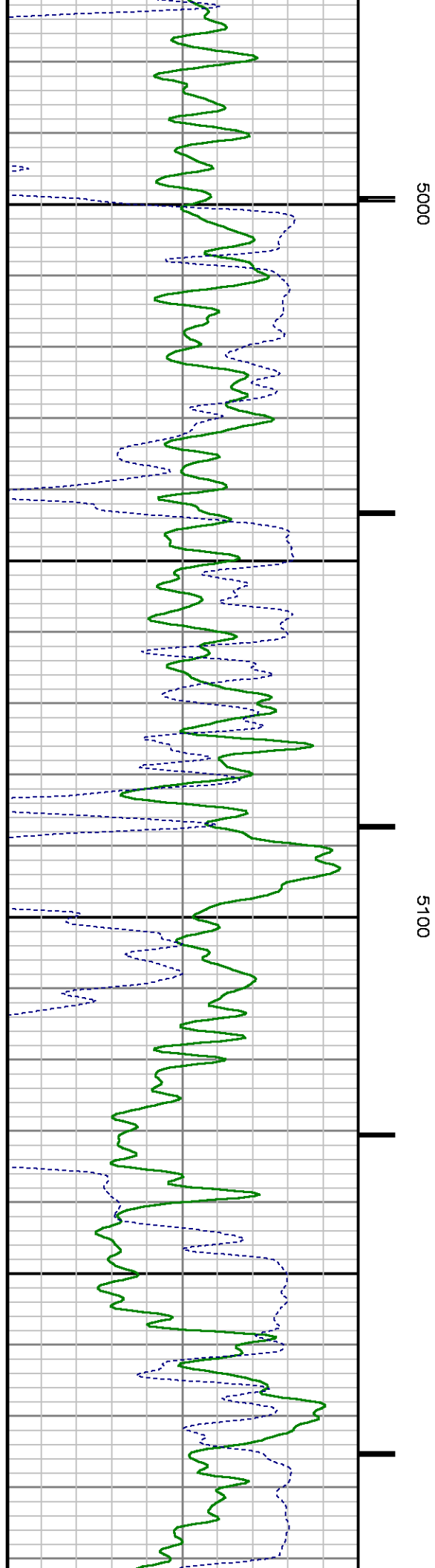
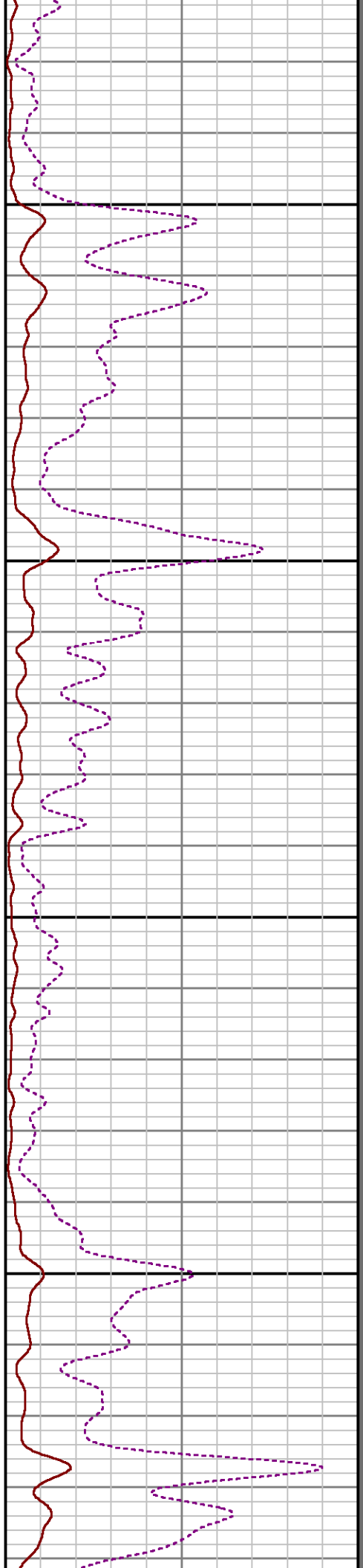
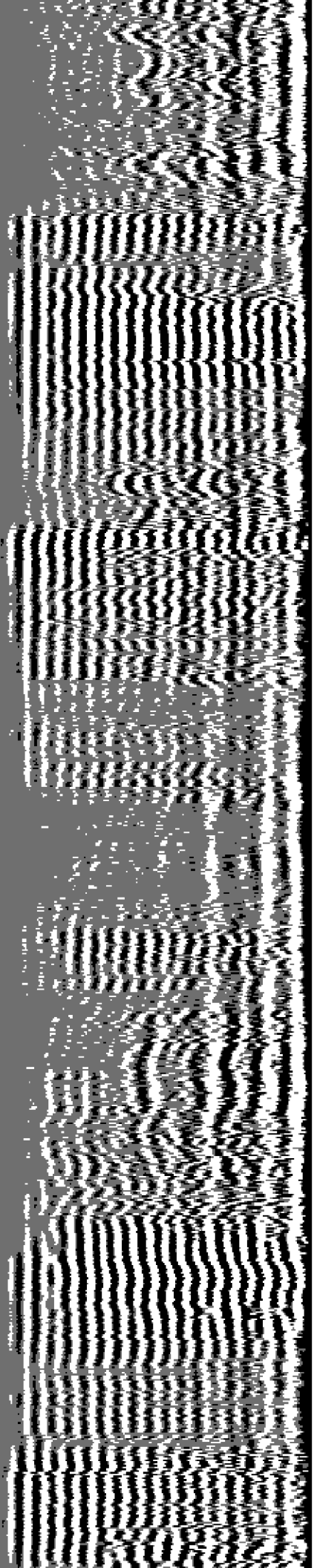


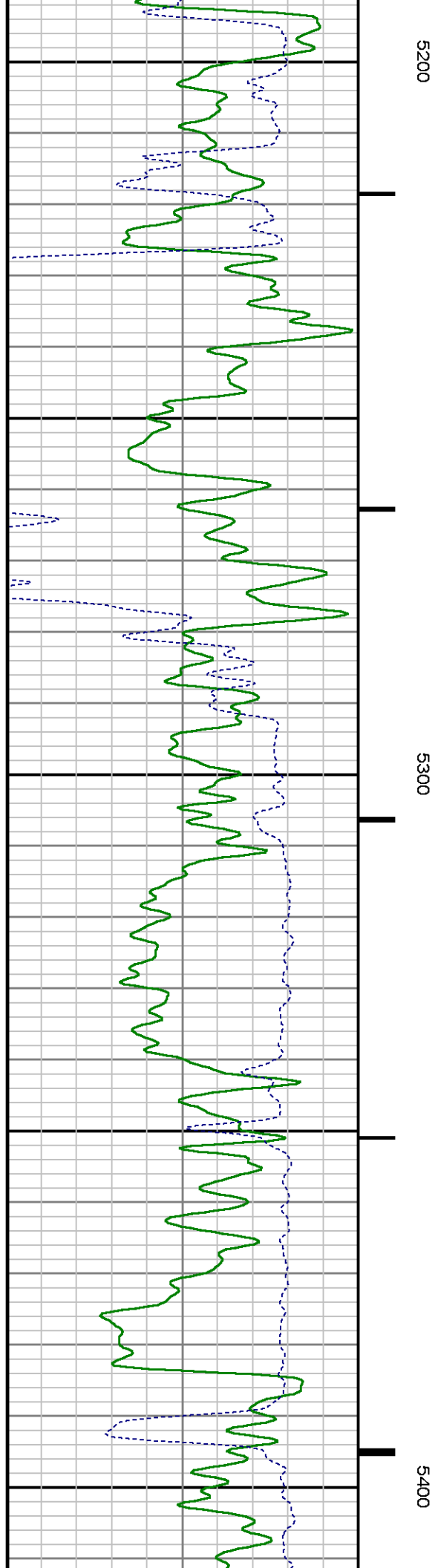
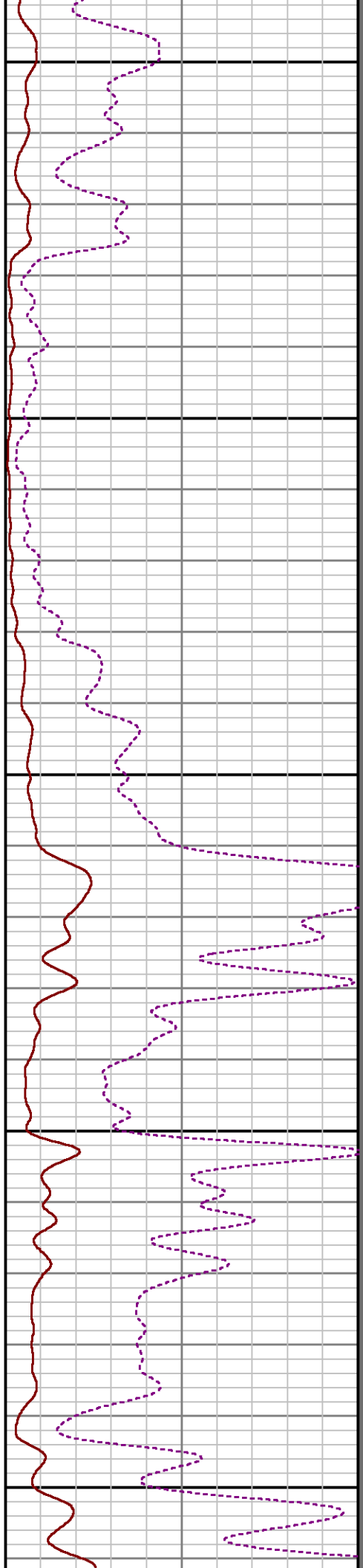
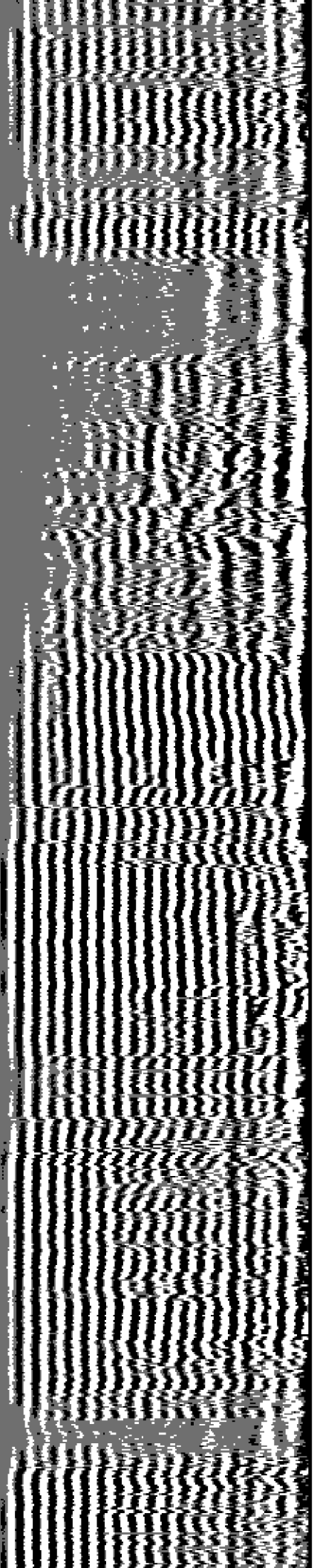




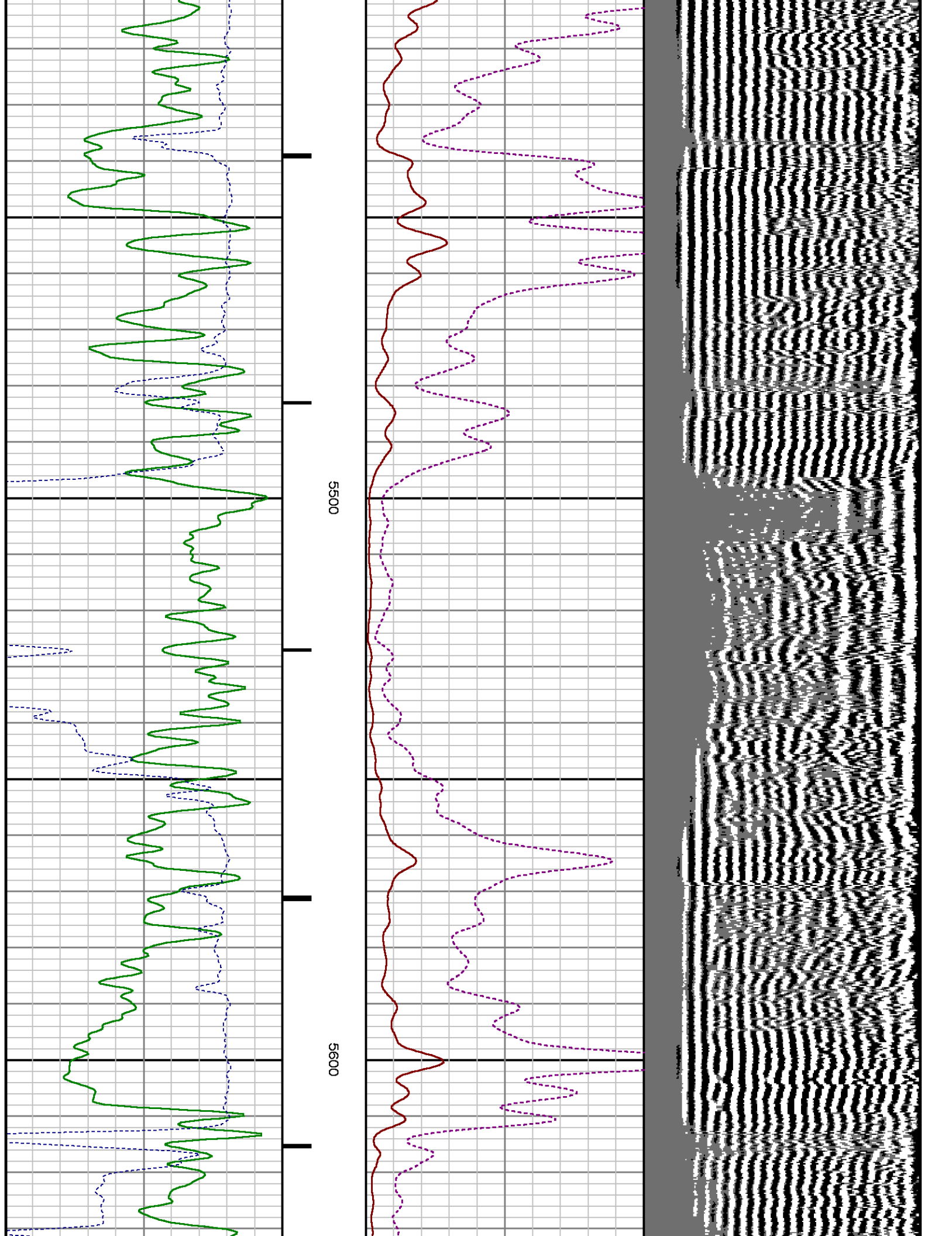


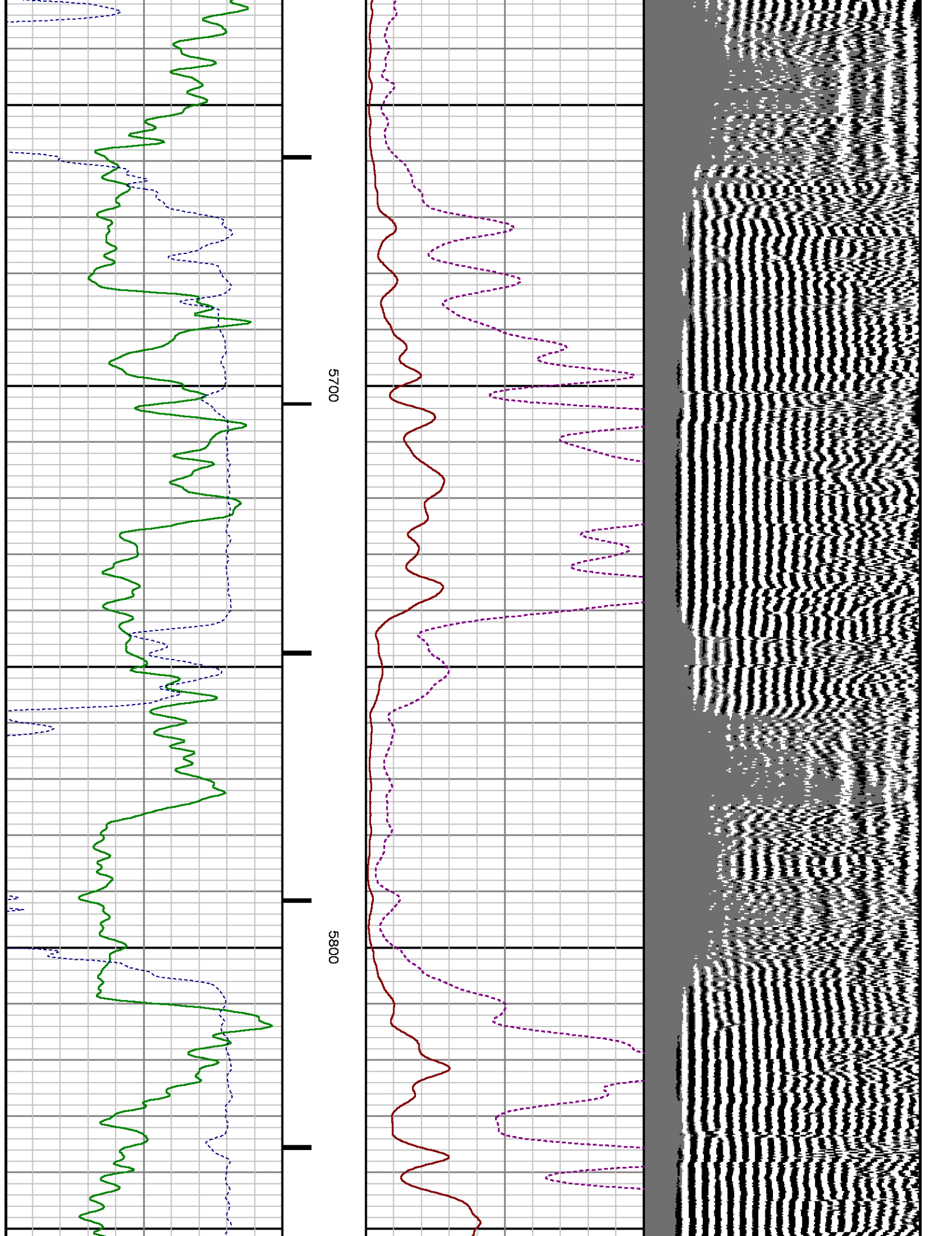




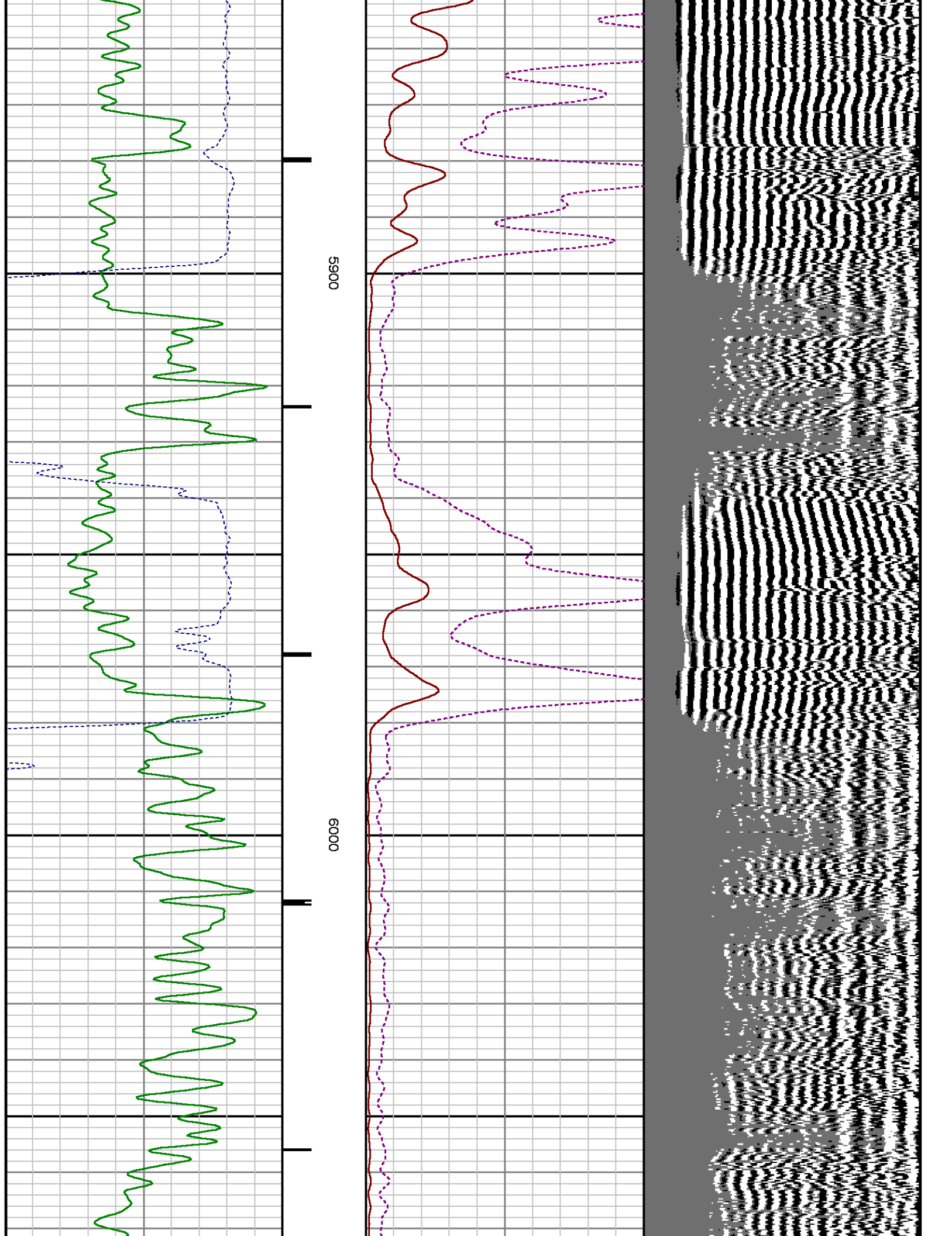


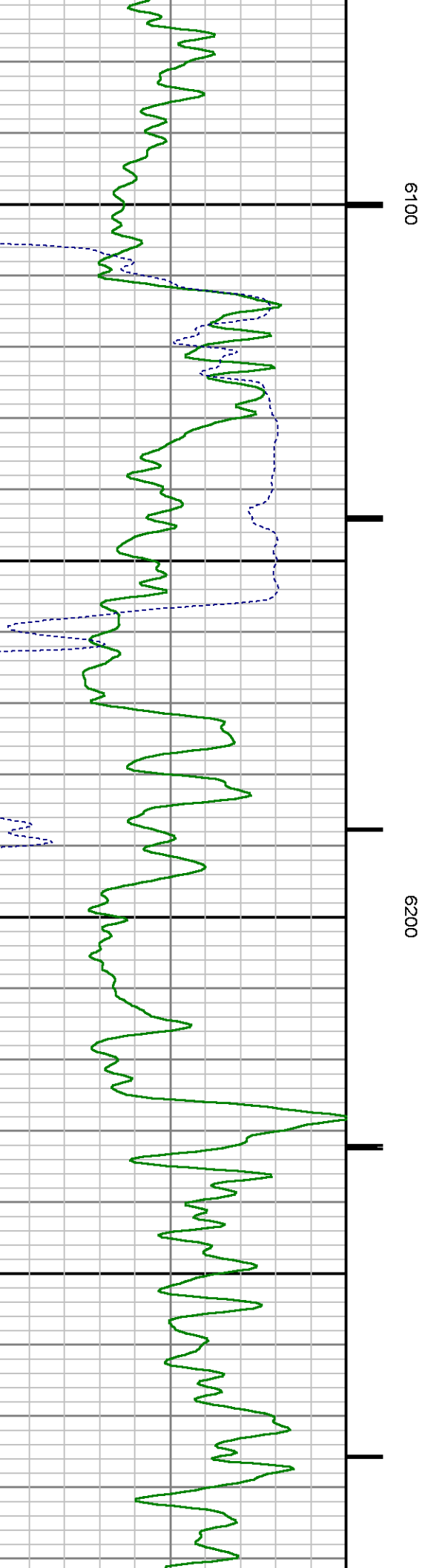
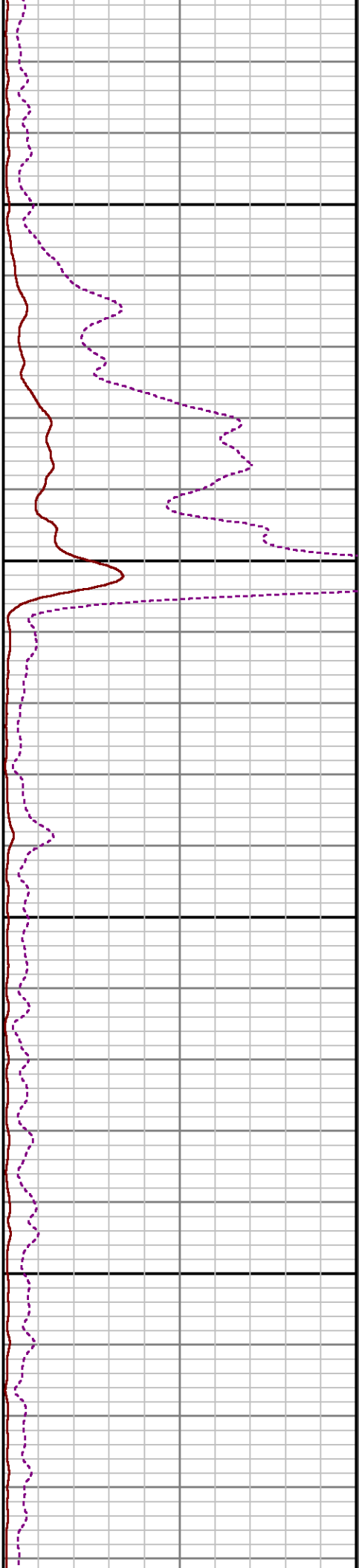
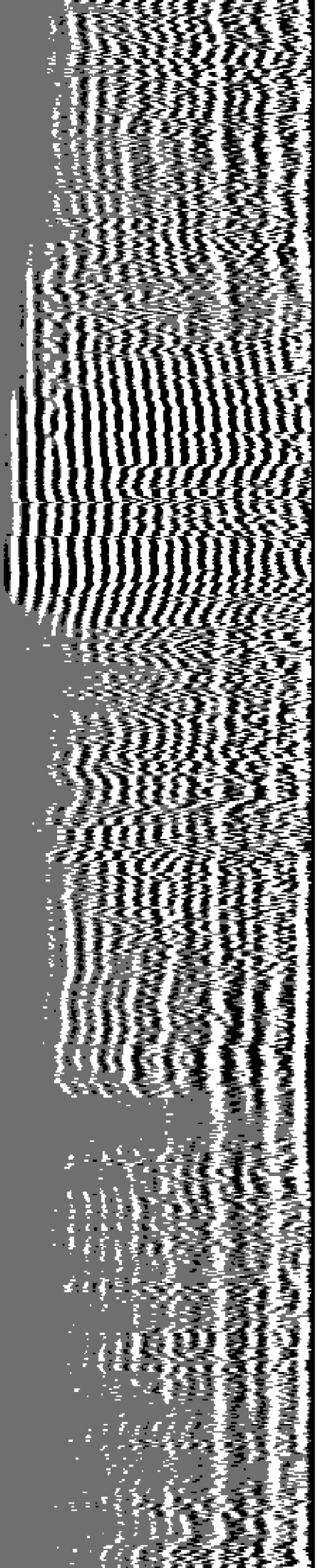


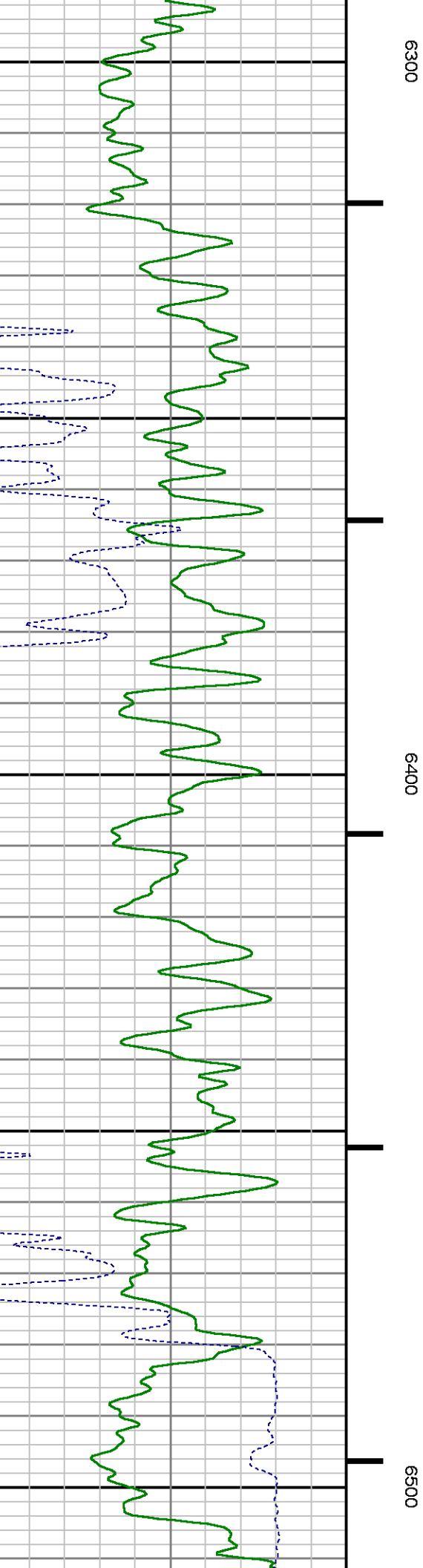
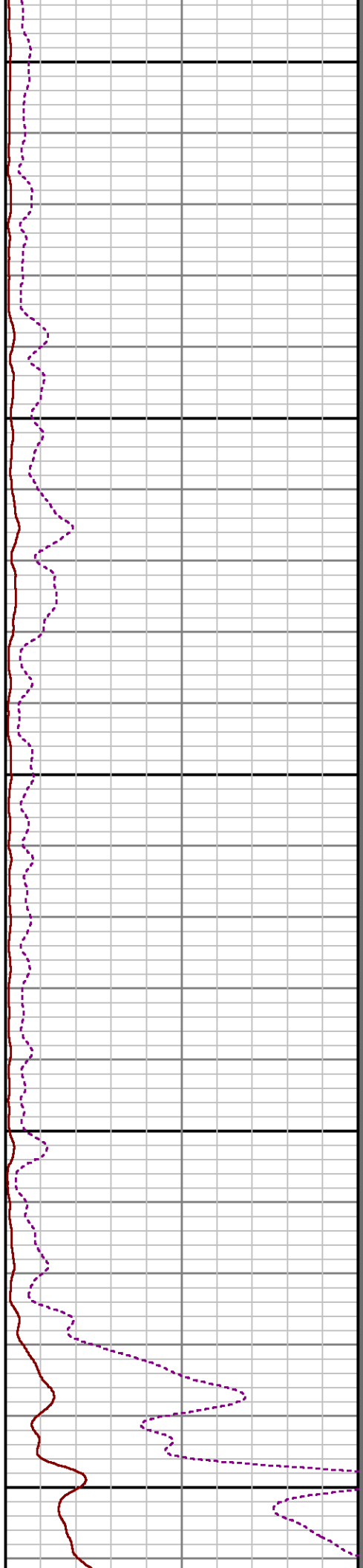
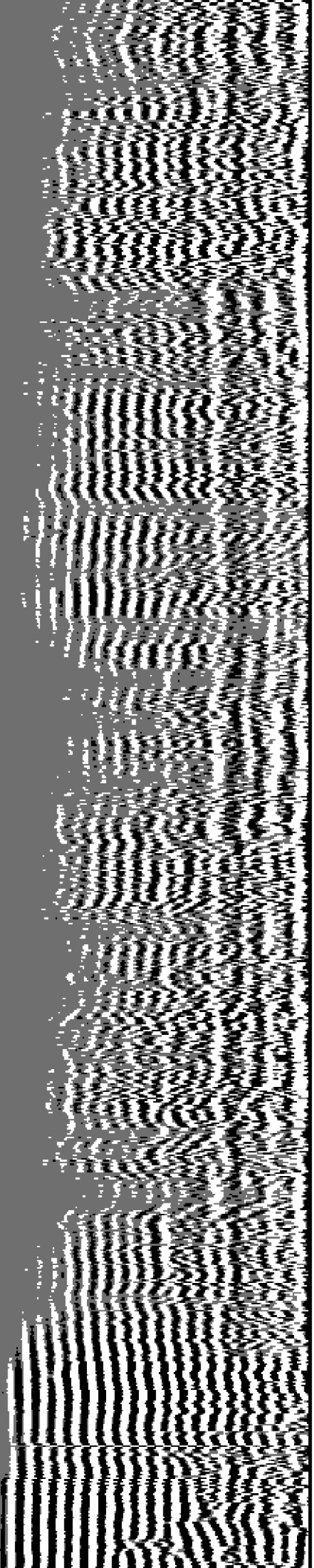


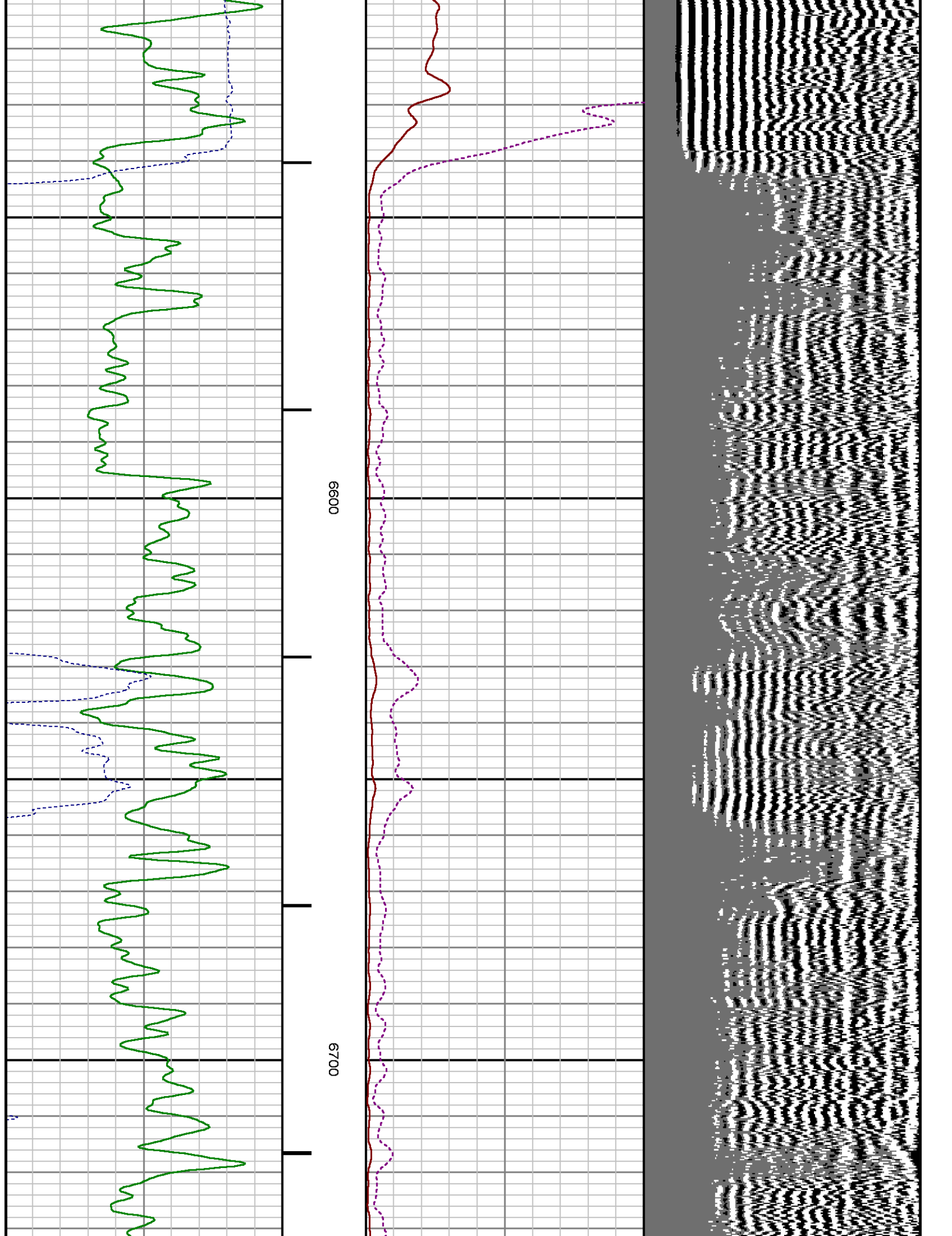


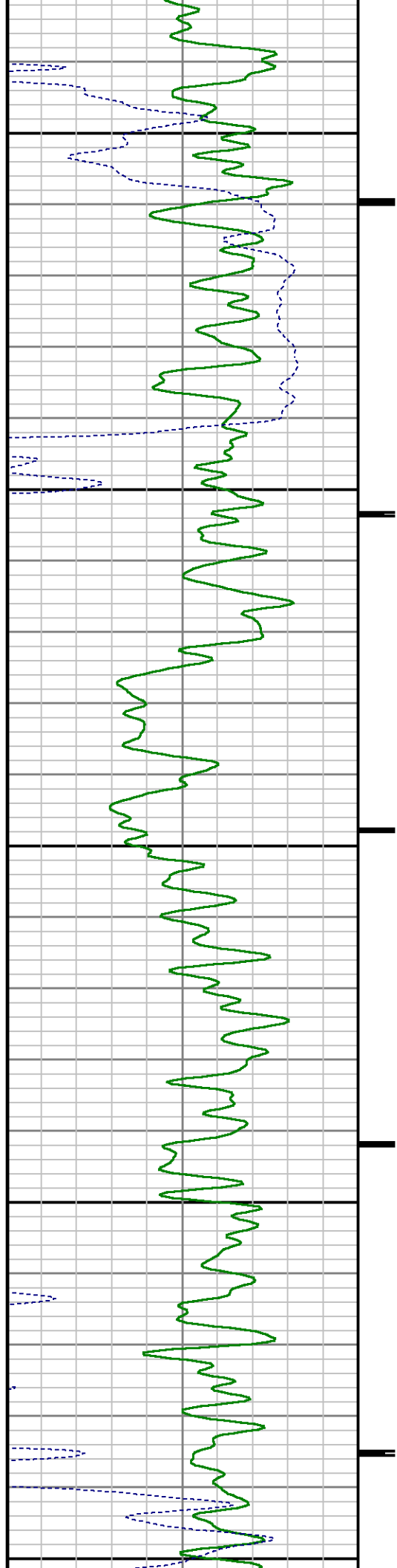






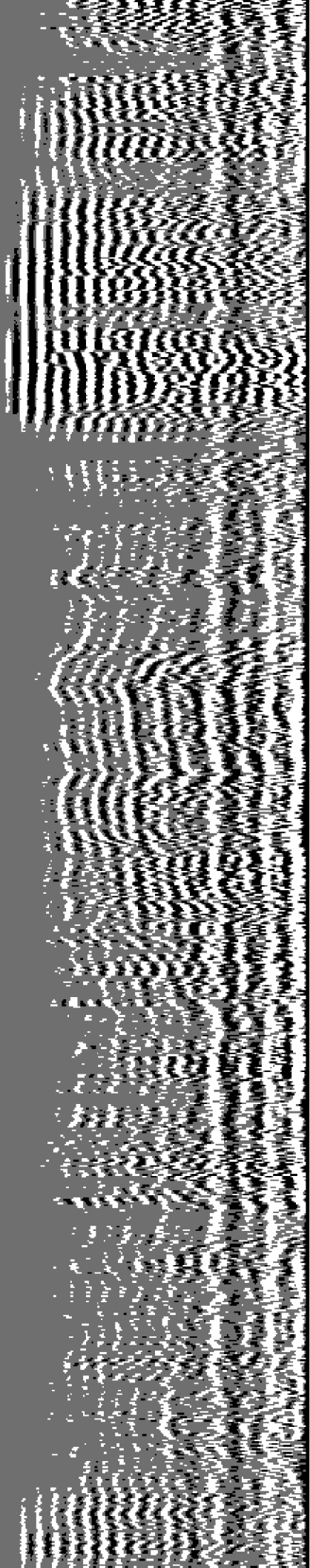
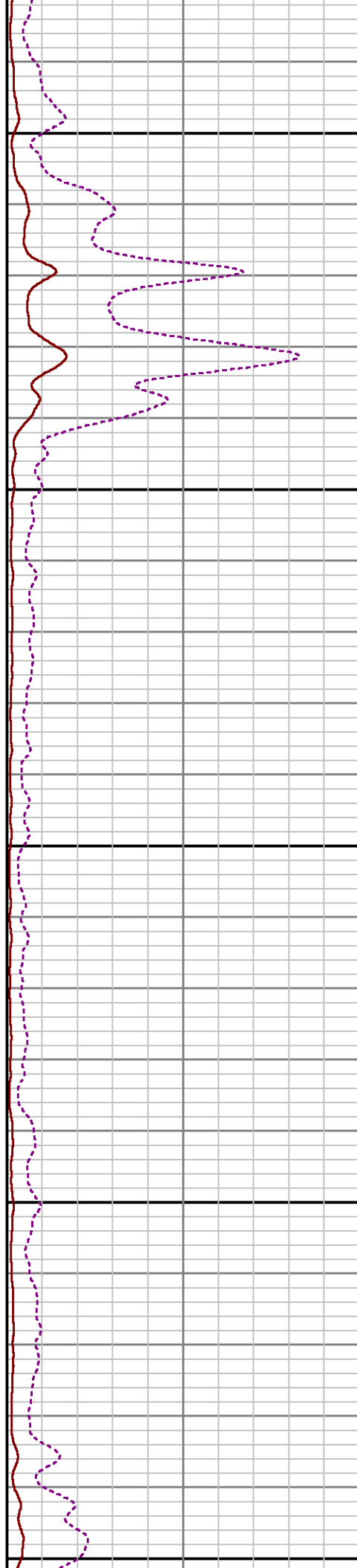




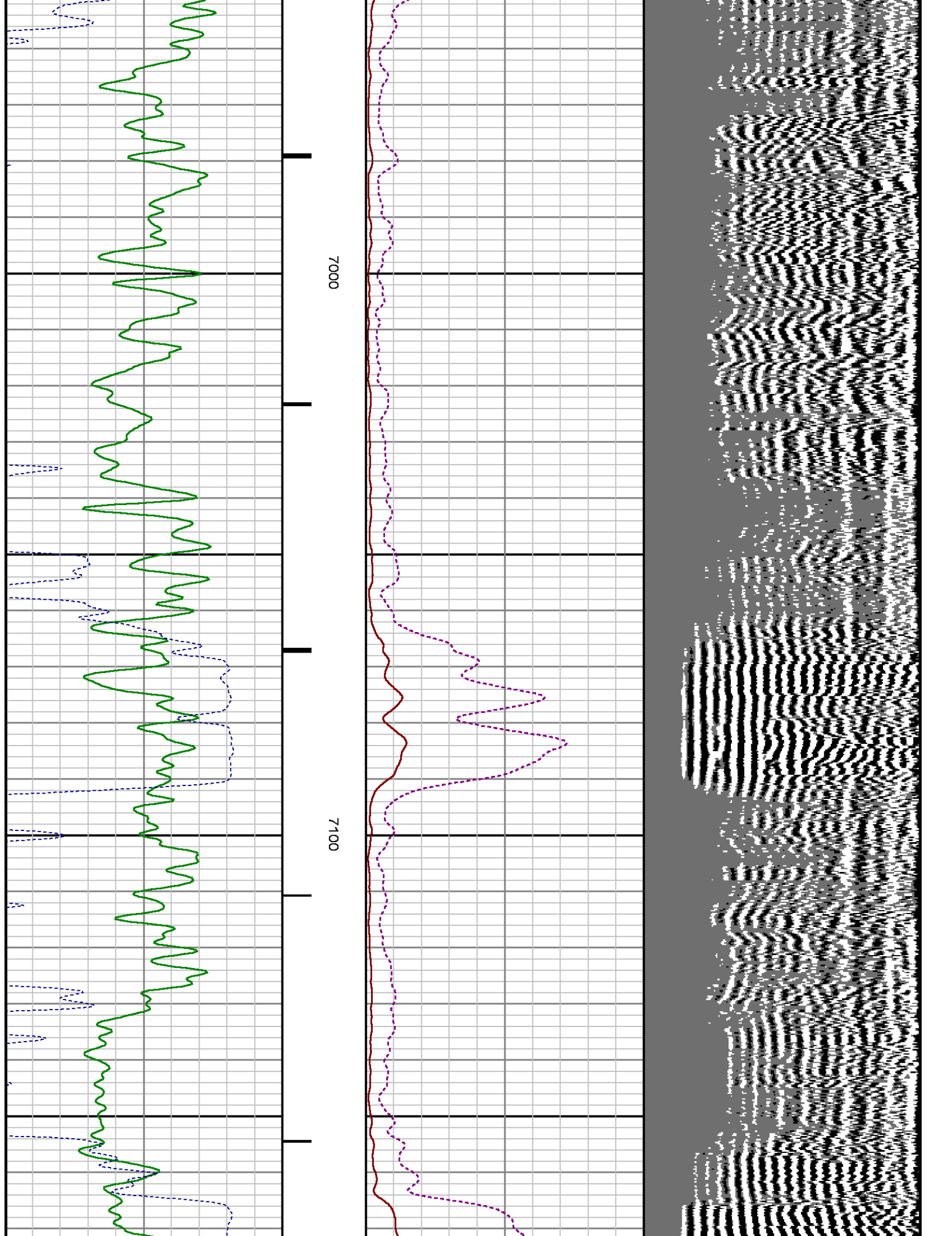


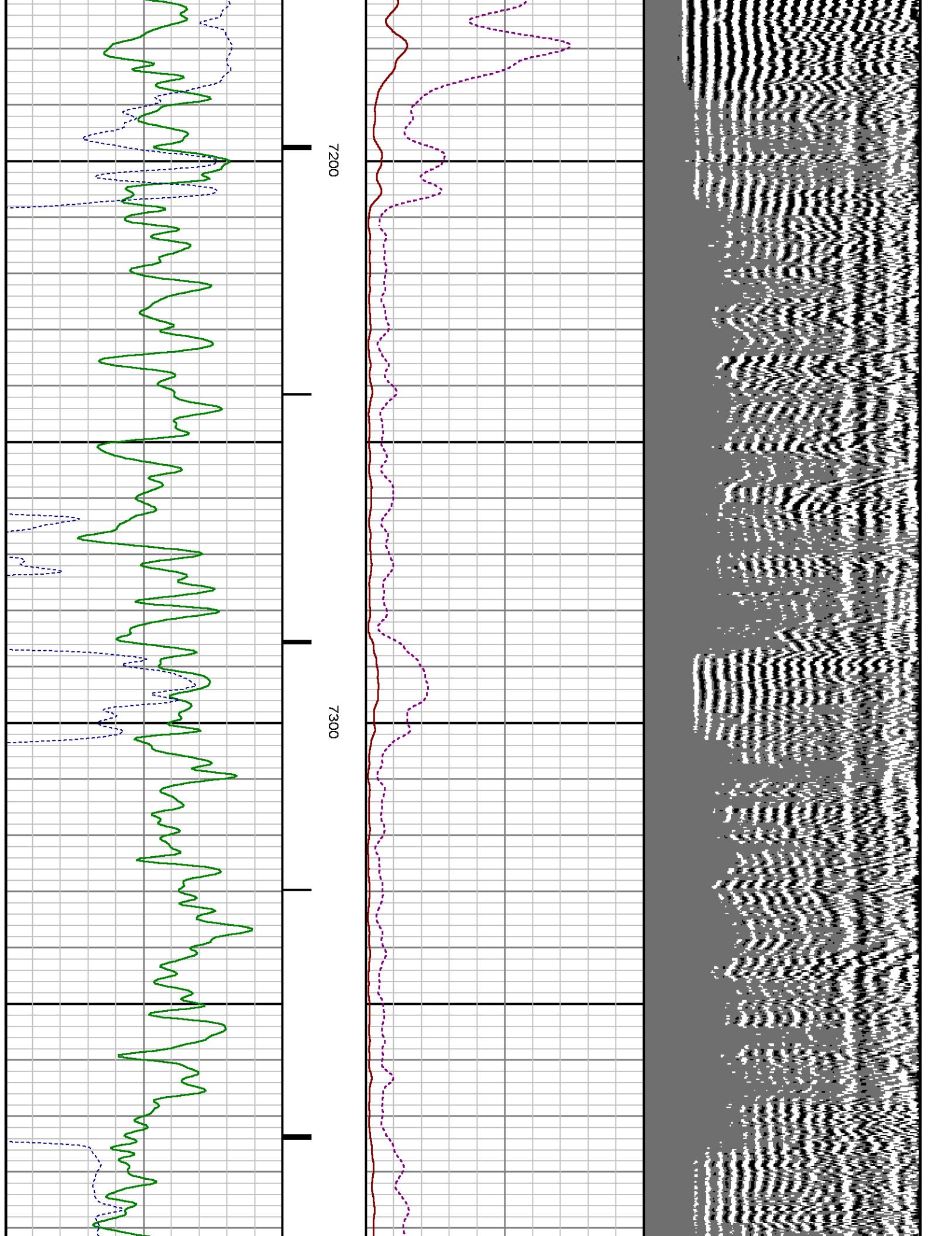
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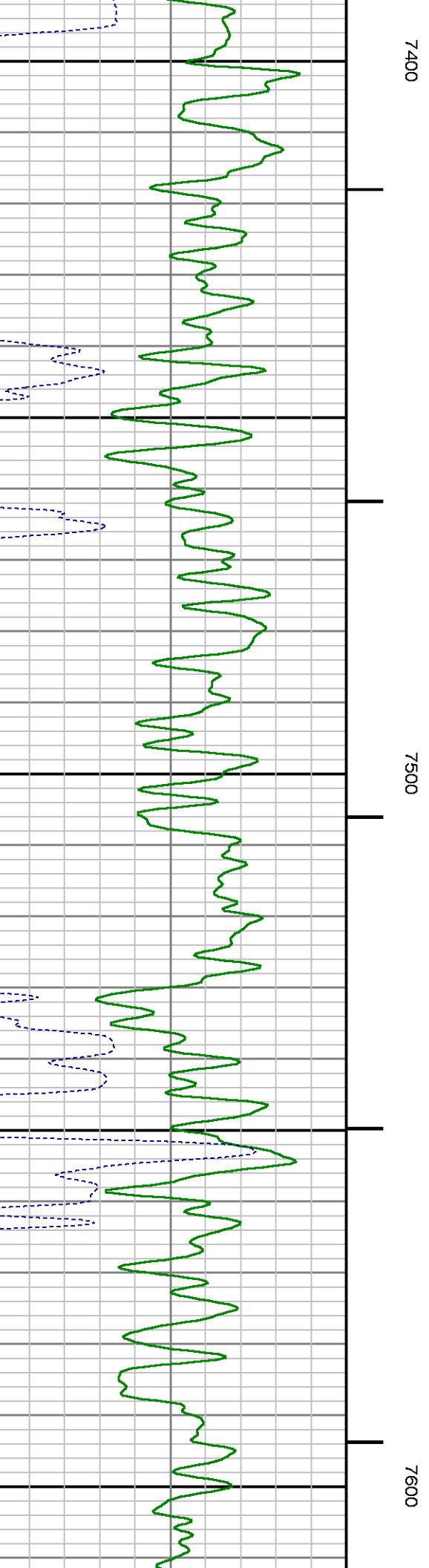
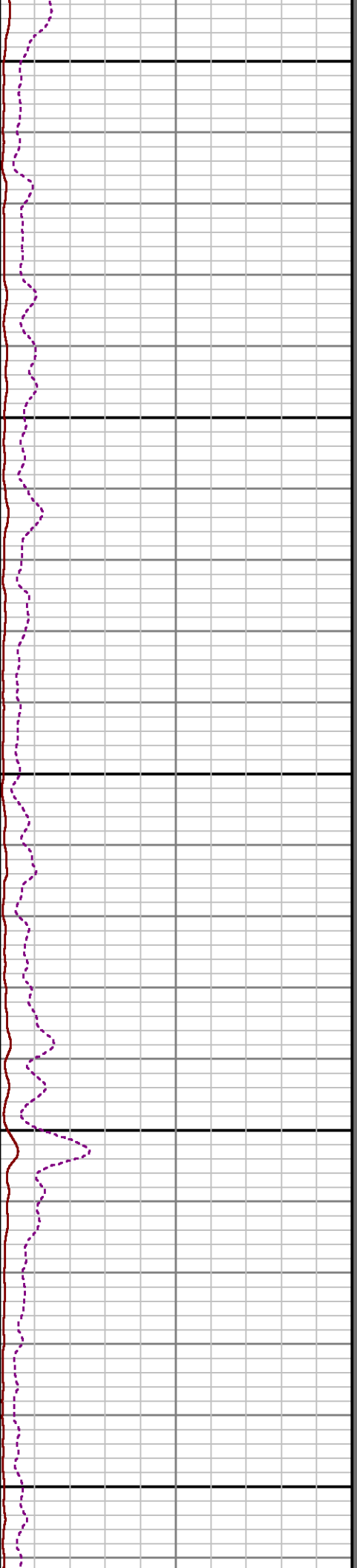
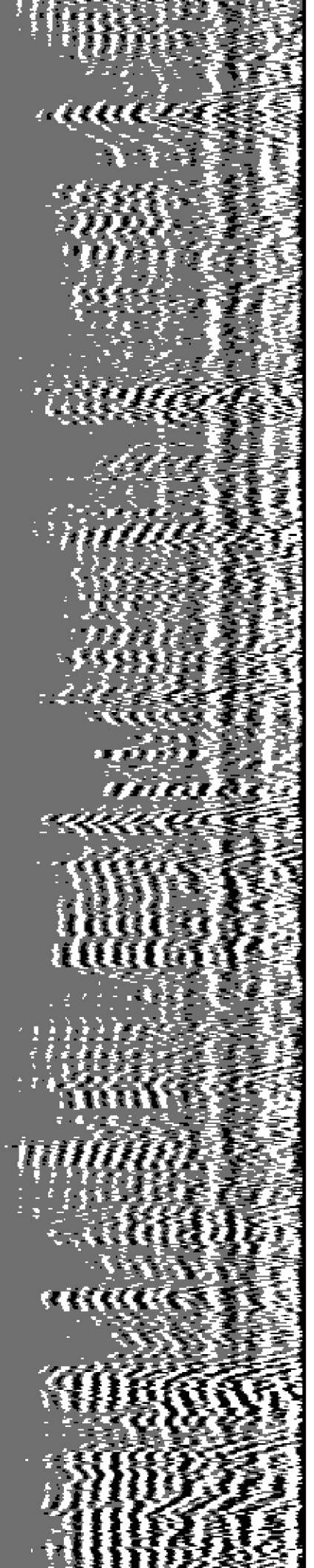


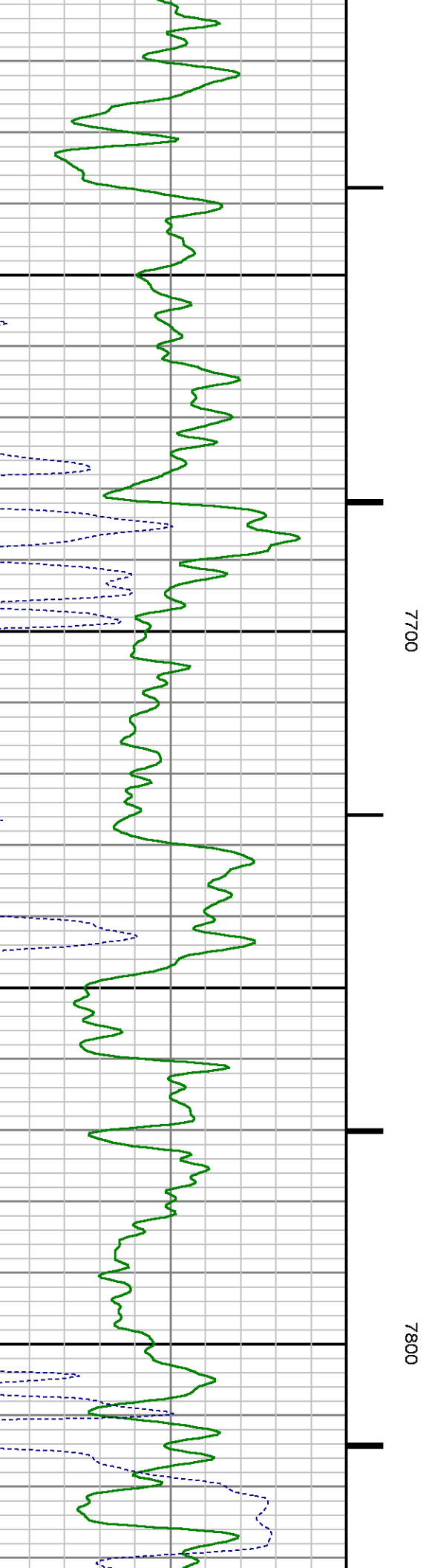
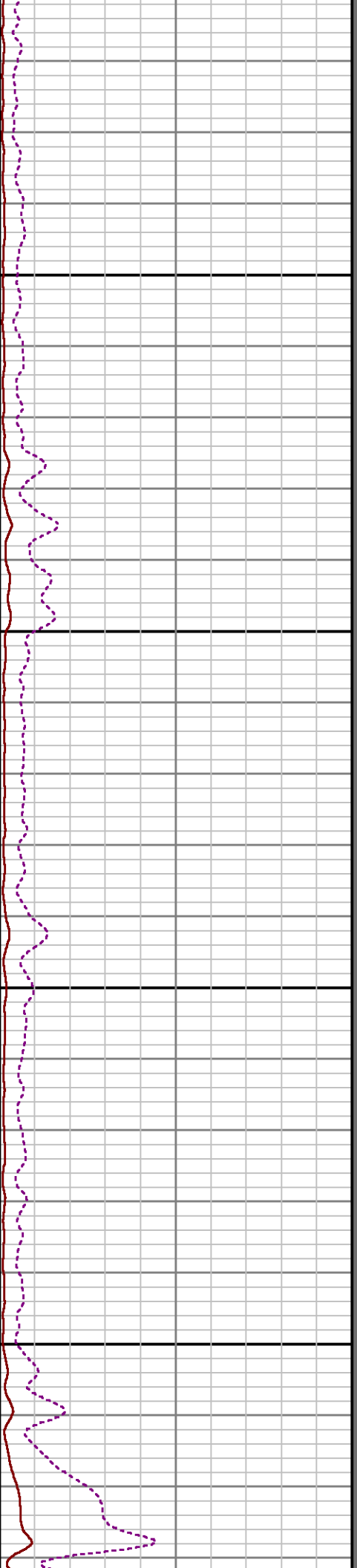
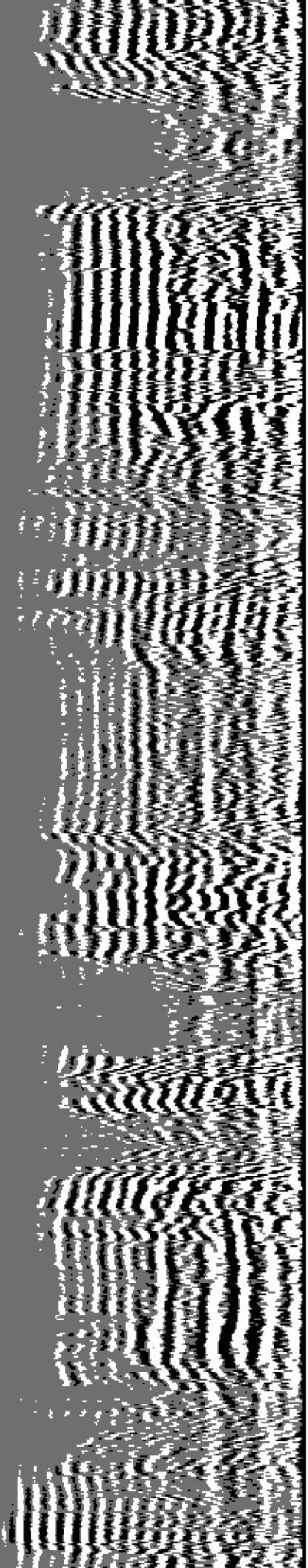














MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	33.437	7975.250
RAL	Amp Gate Start Near	195.000	usec	33.437	7975.250
RAL	Amp Gate Start Radial	195.000	usec	33.437	7975.250
RAL	Amp Gate Width Far	25.000	usec	33.437	7975.250
RAL	Amp Gate Width Near	25.000	usec	33.437	7975.250
RAL	Amp Gate Width Radial	25.000	usec	33.437	7975.250
RAL	casing od	4.500	inches	33.437	7975.250
RAL	casing wt	11.600	lbm/ft	33.437	7975.250
RAL	FB Start Far	291.900	usec	33.437	7975.250
RAL	FB Start Near	175.391	usec	33.437	7975.250
RAL	FB Start Radial	175.391	usec	33.437	7975.250
RAL	FB Thresh Far	10.000	mV	33.437	7975.250
RAL	FB Thresh Near	4.000	mV	33.437	7975.250
RAL	FB Thresh Radial	4.000	mV	33.437	7975.250
RAL	Fluid Travel Time	200.000	usec/ft	33.437	7970.843

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

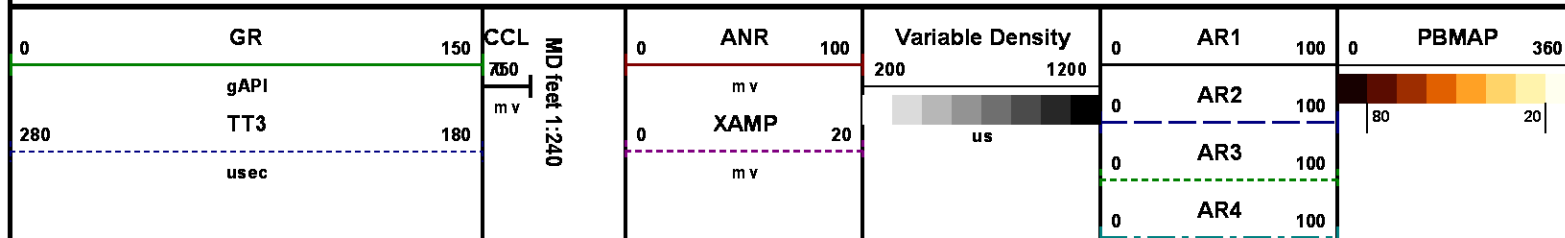
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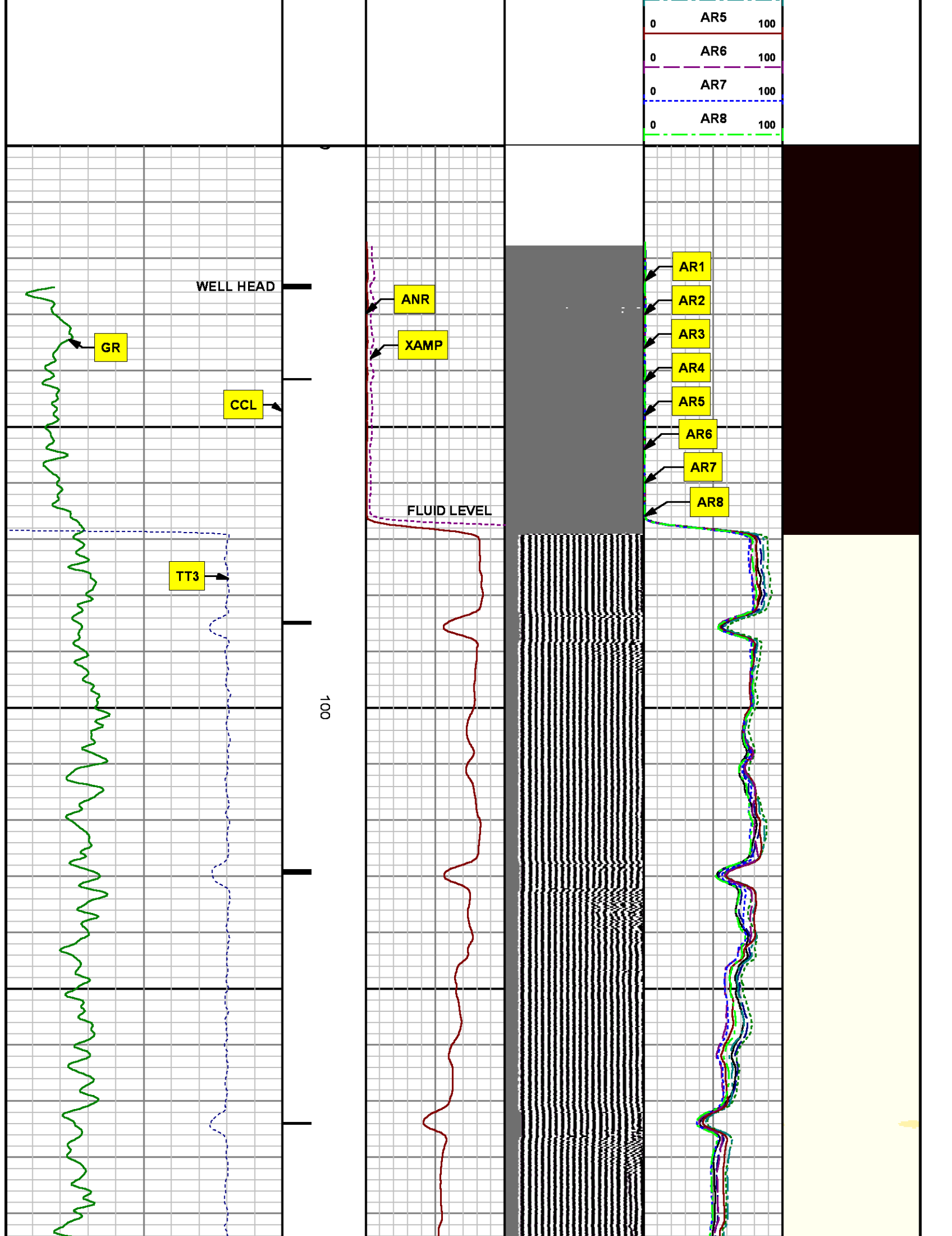
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Interval : 0.00 - 7973.00 feet UP

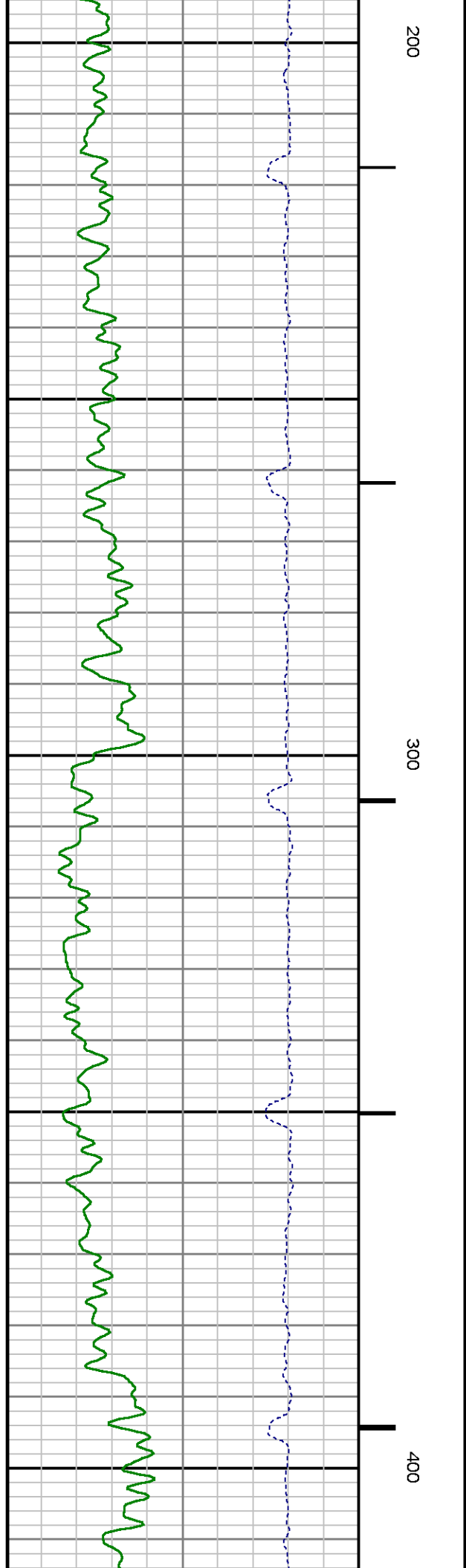
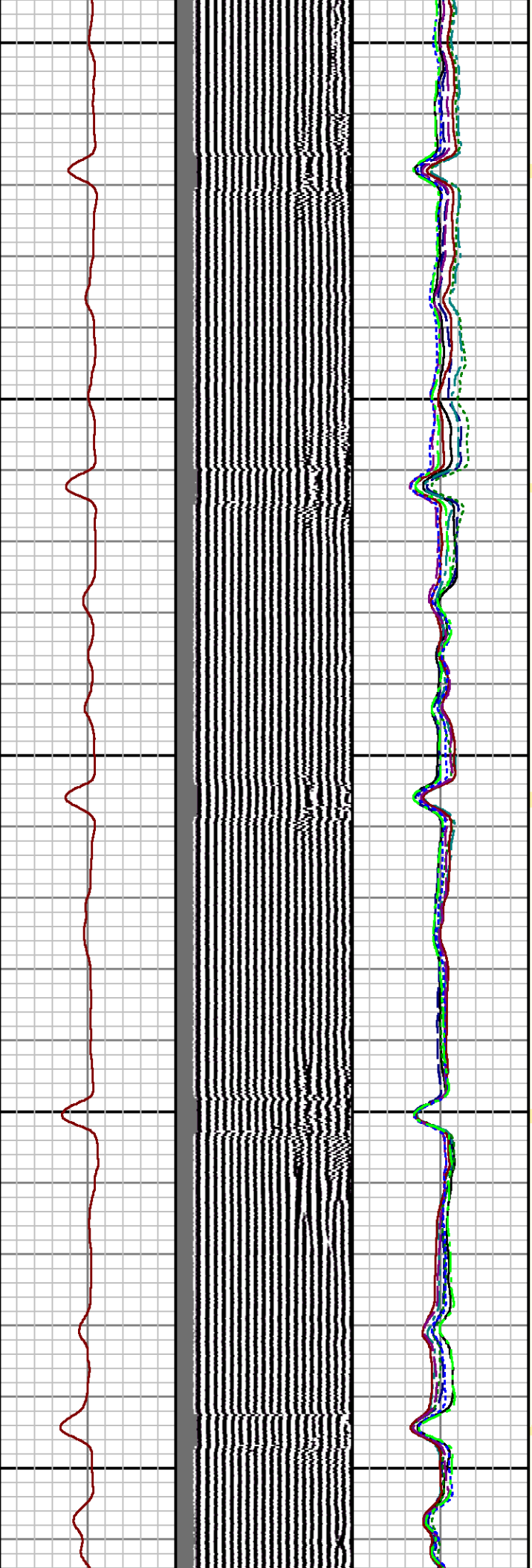
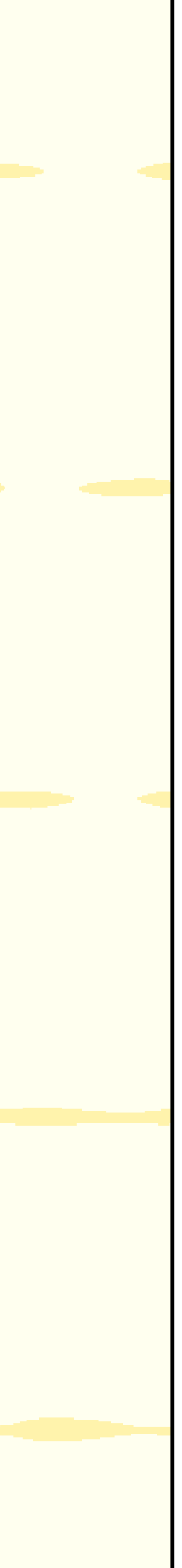
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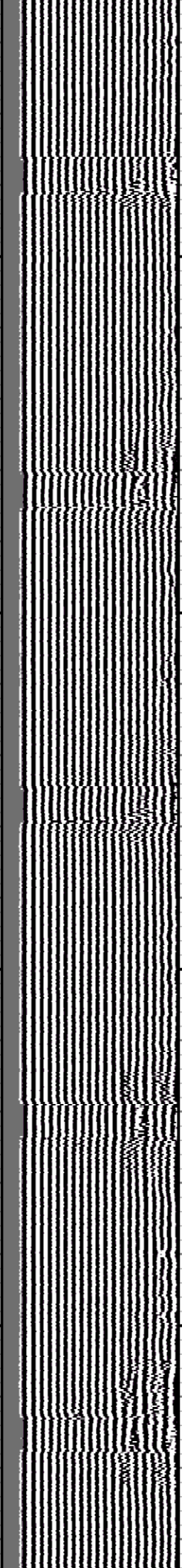
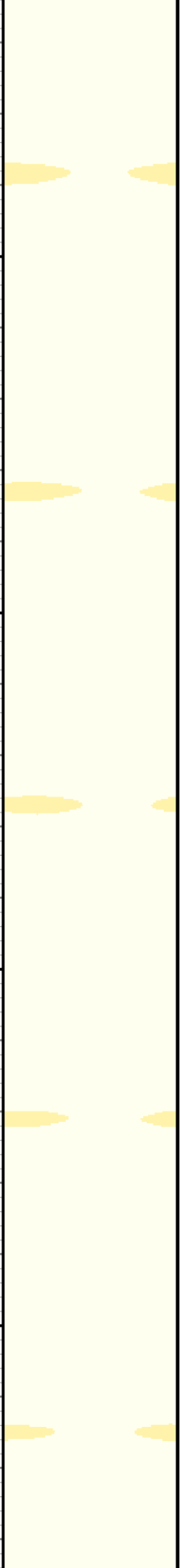


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0	AR6	100
0	AR7	100
0	AR8	100



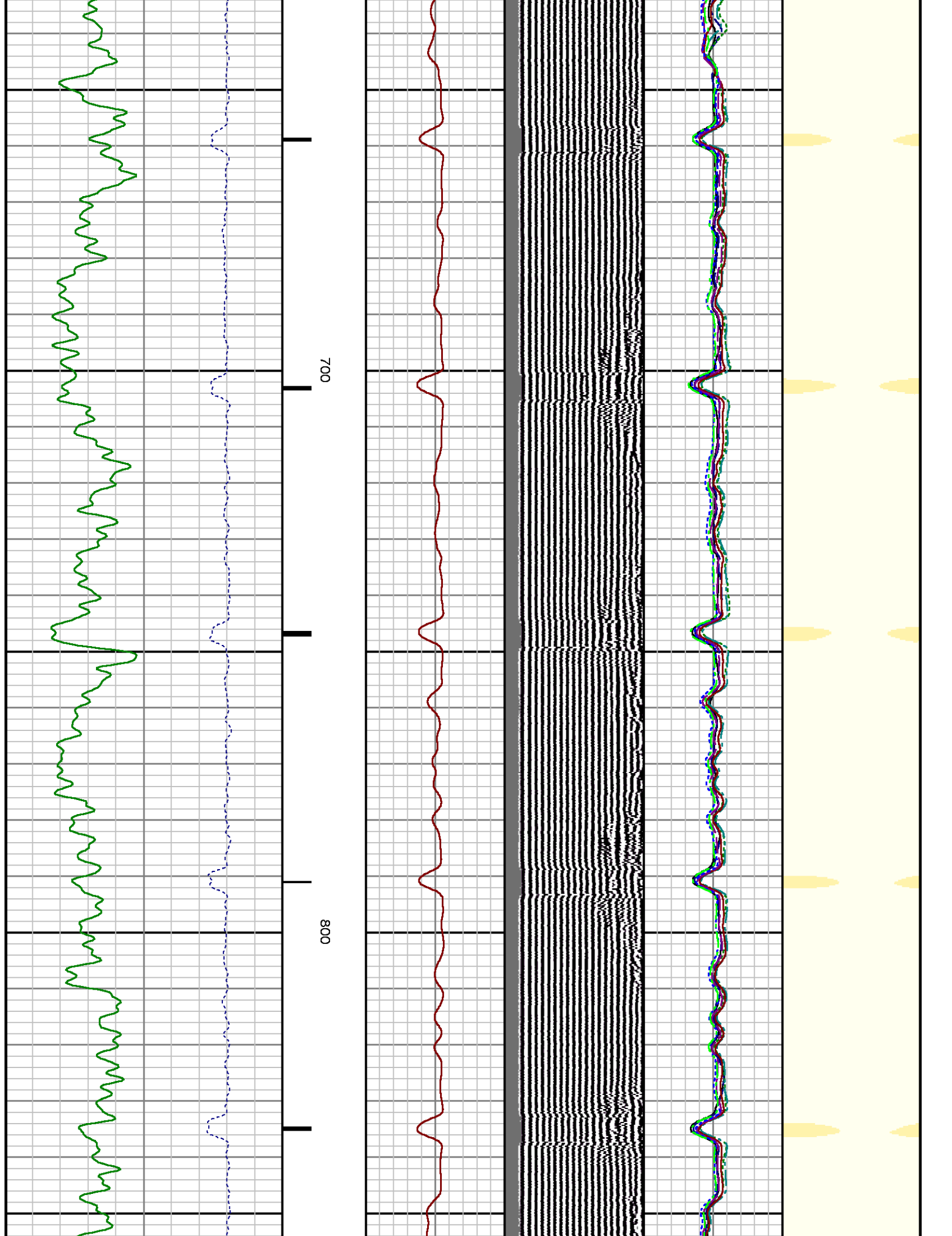


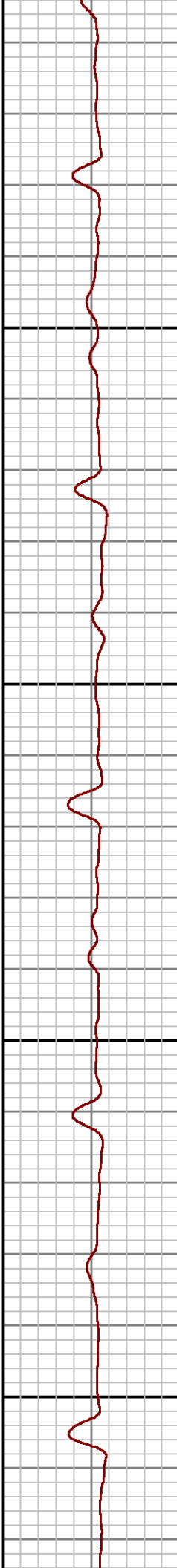
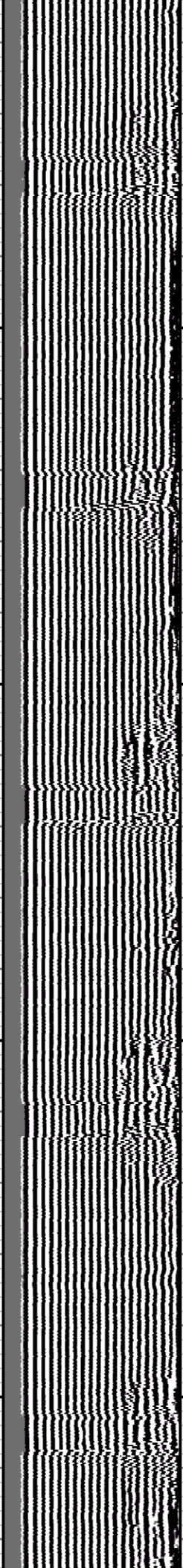
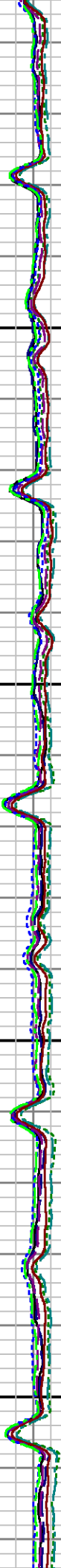
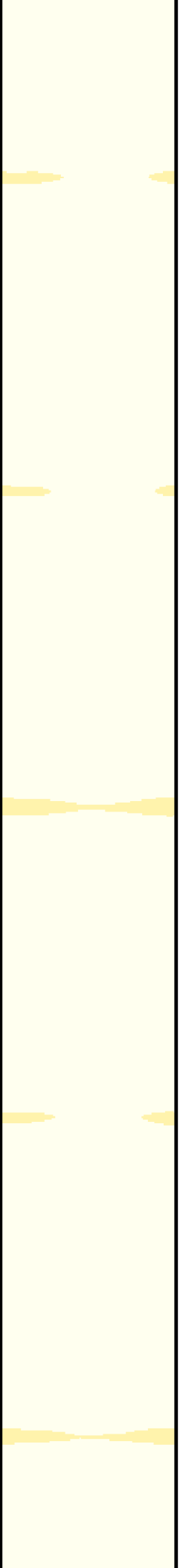




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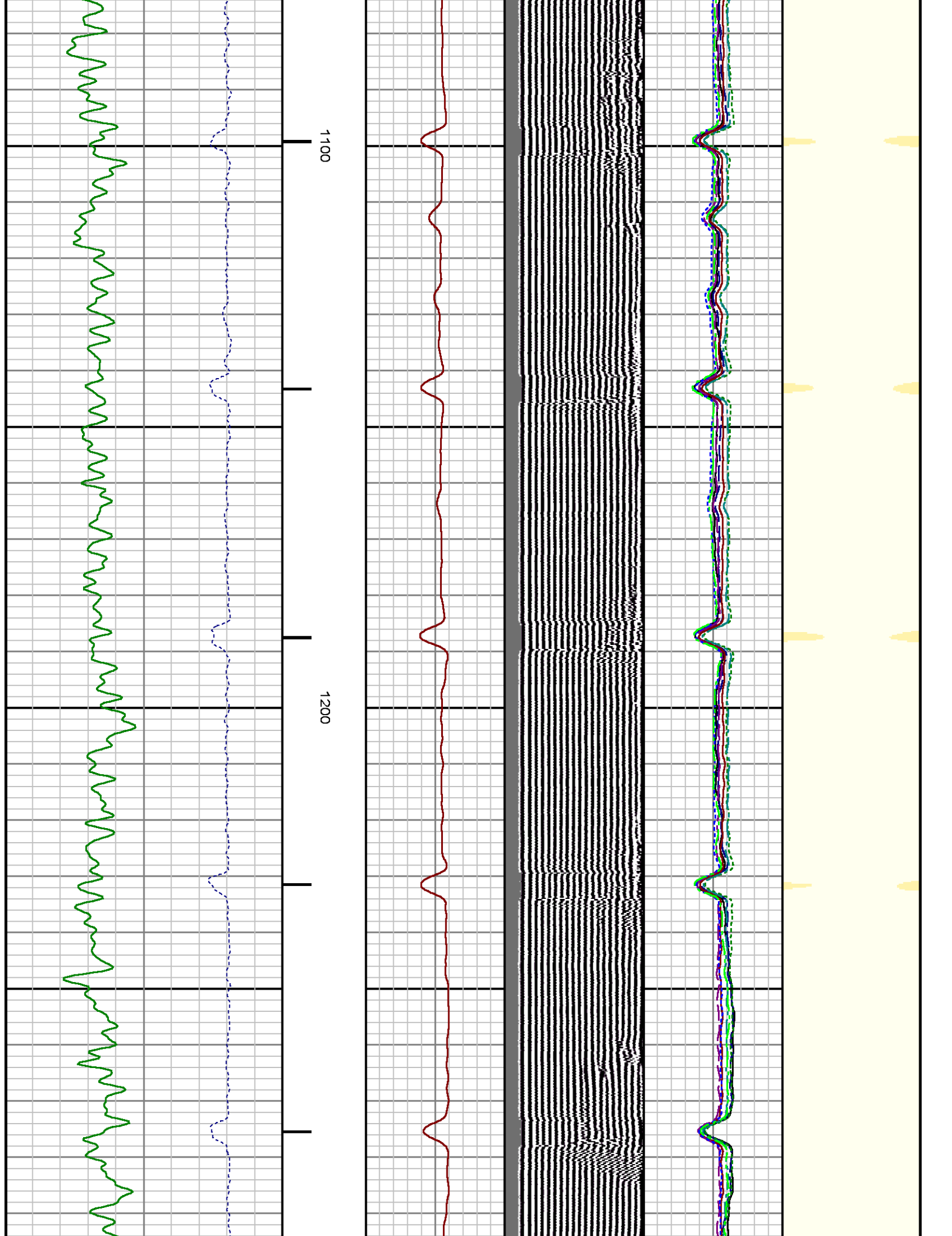
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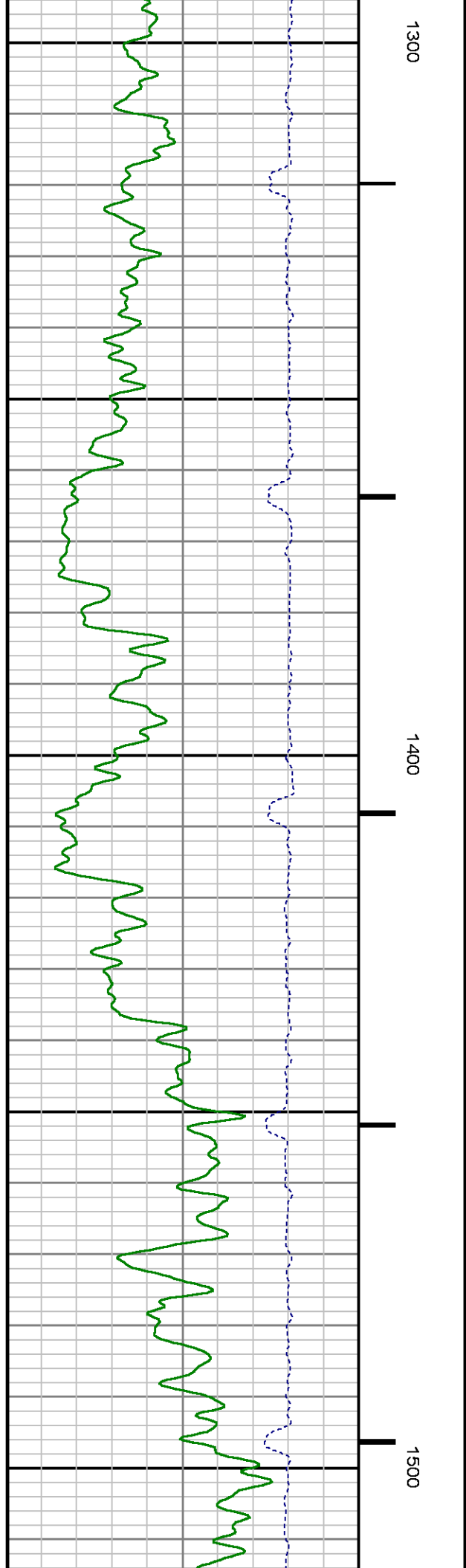
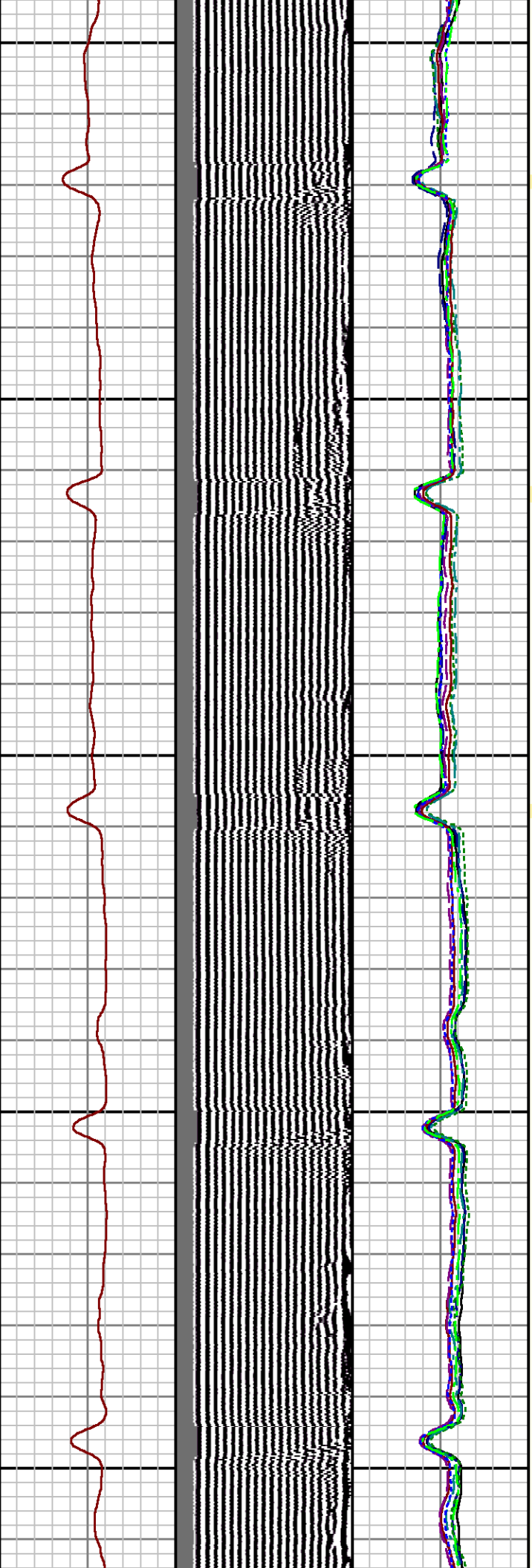
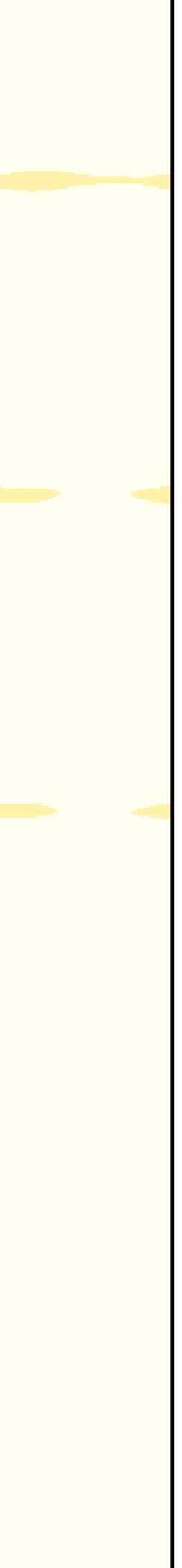


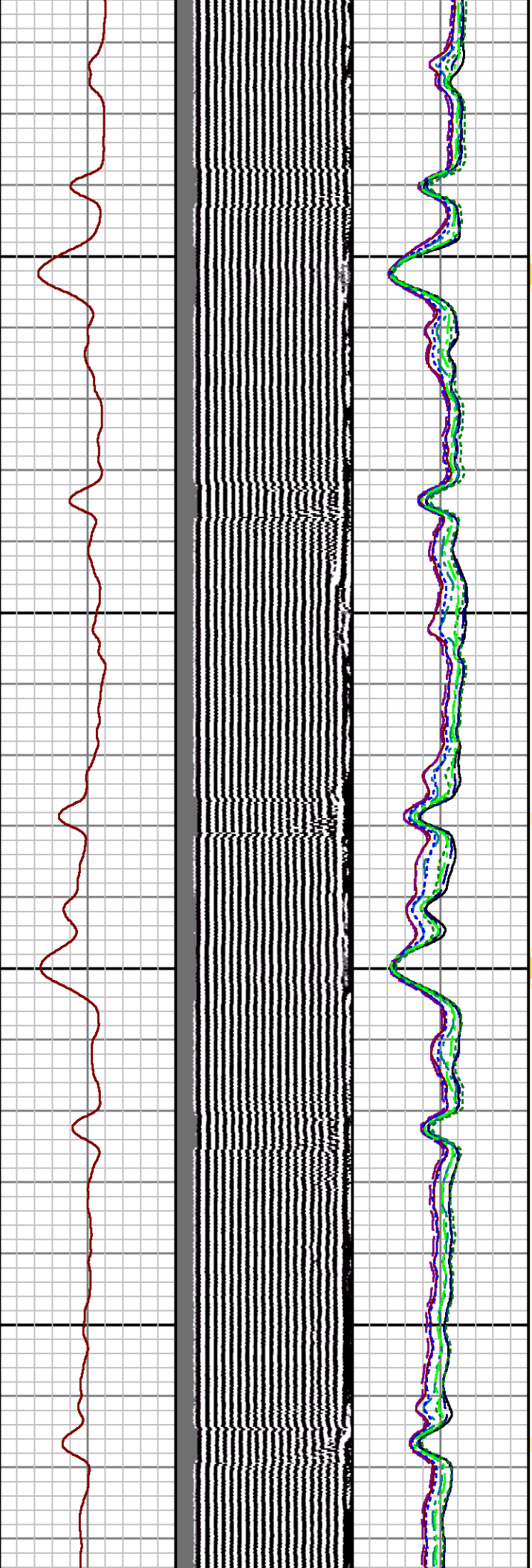
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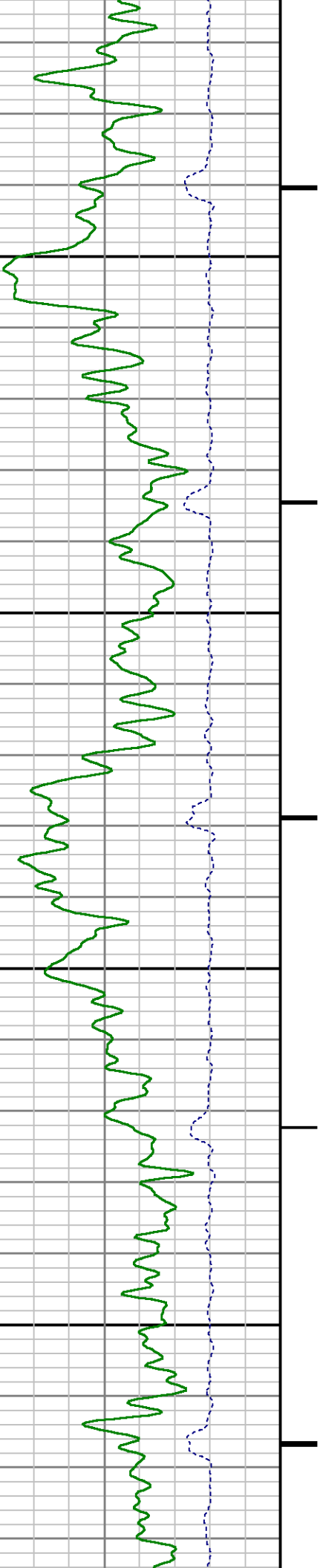


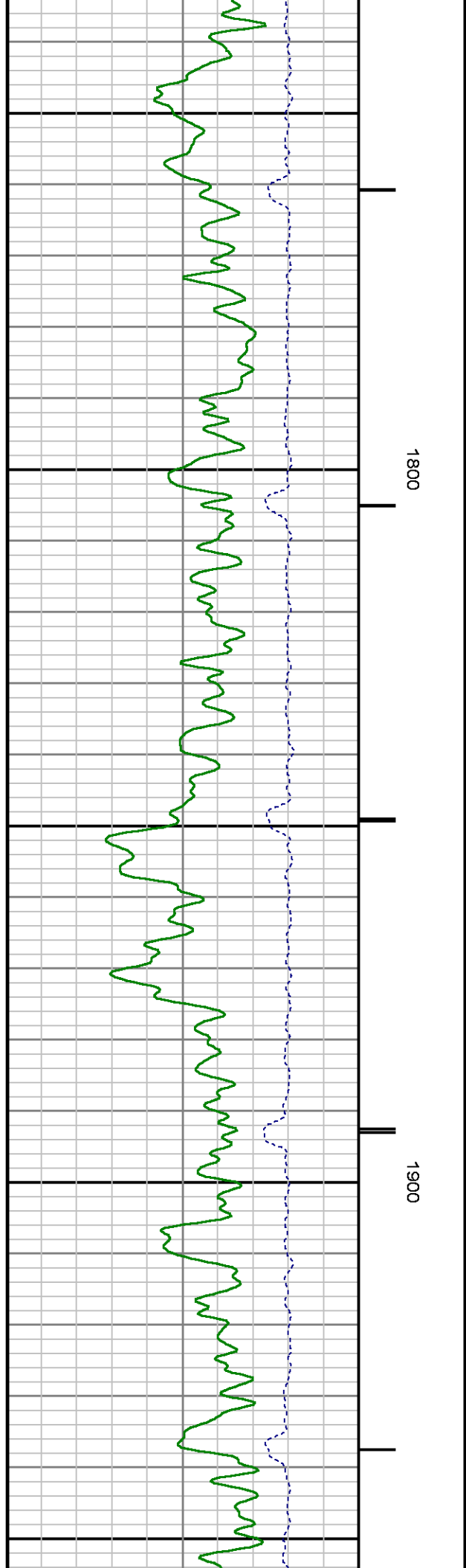
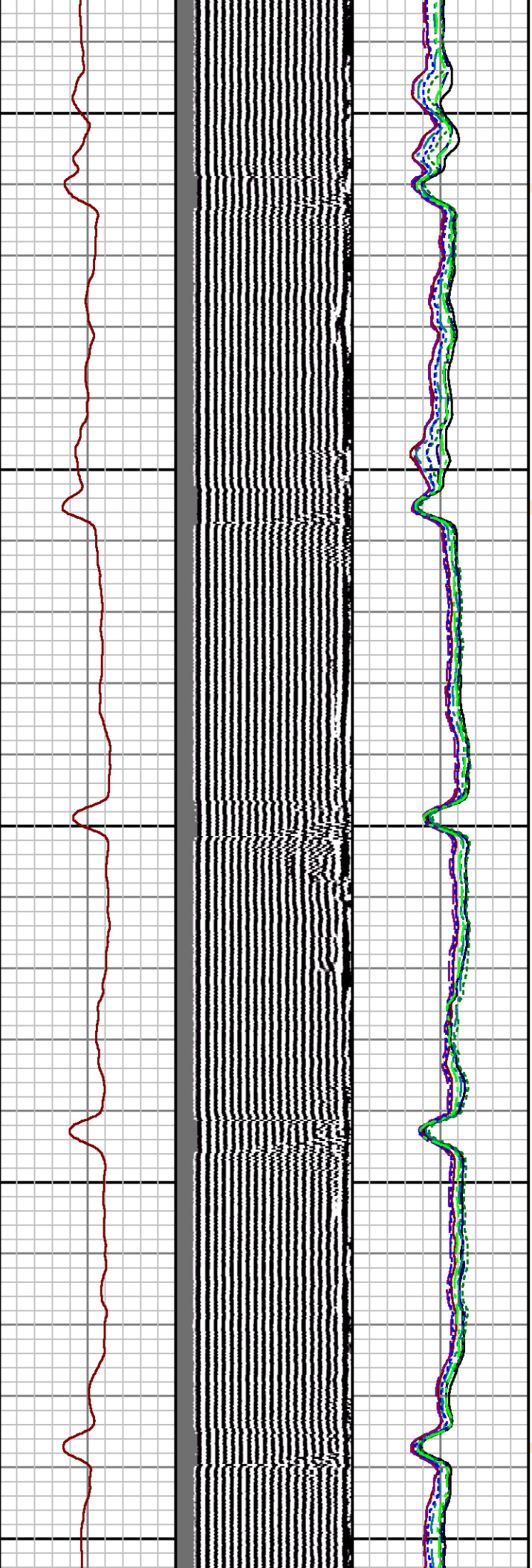


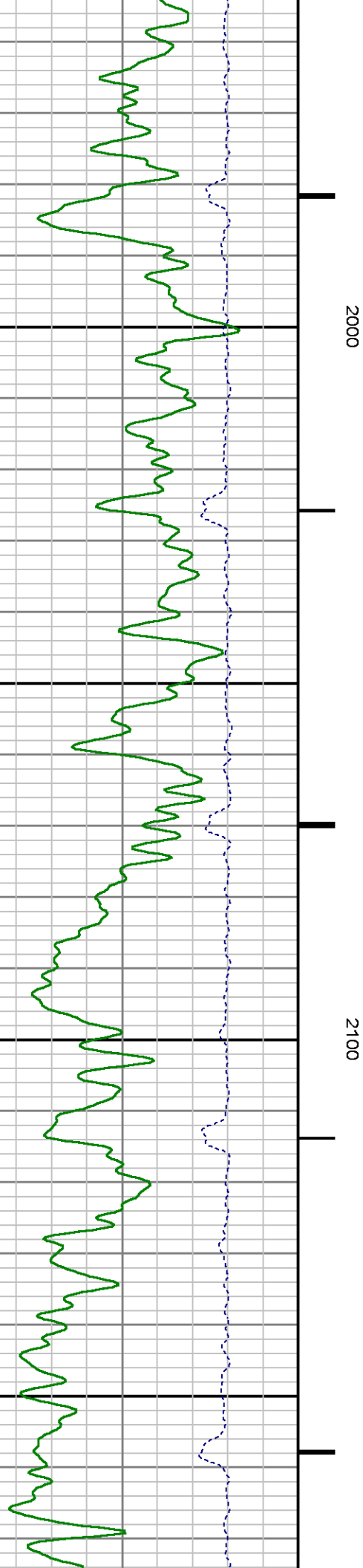
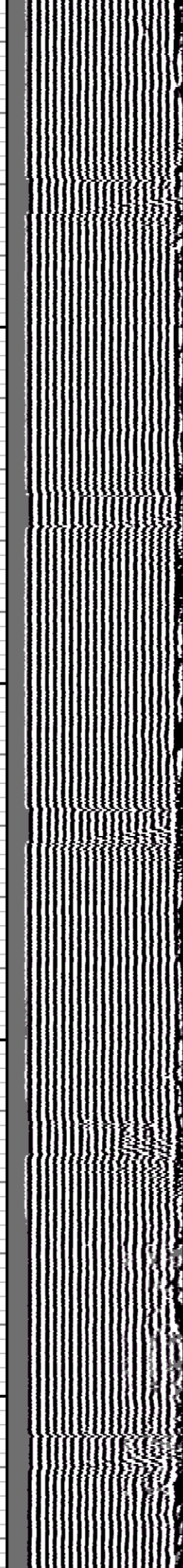
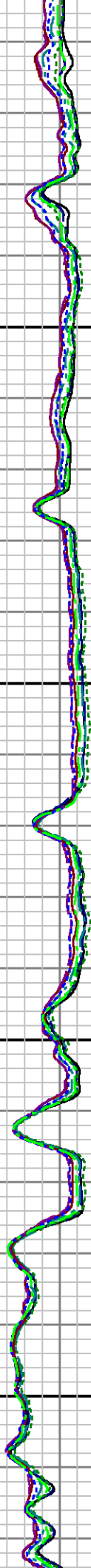
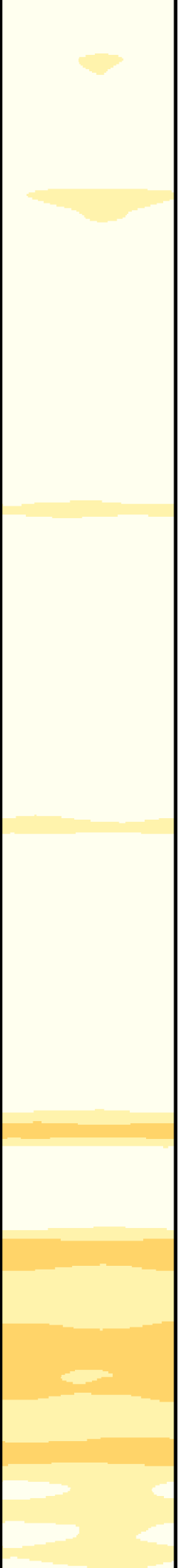


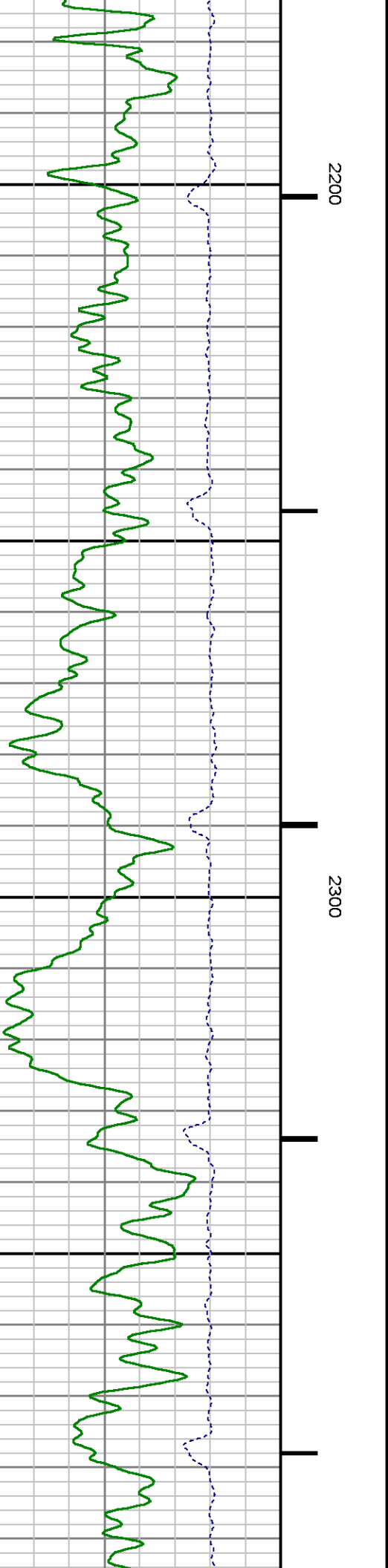
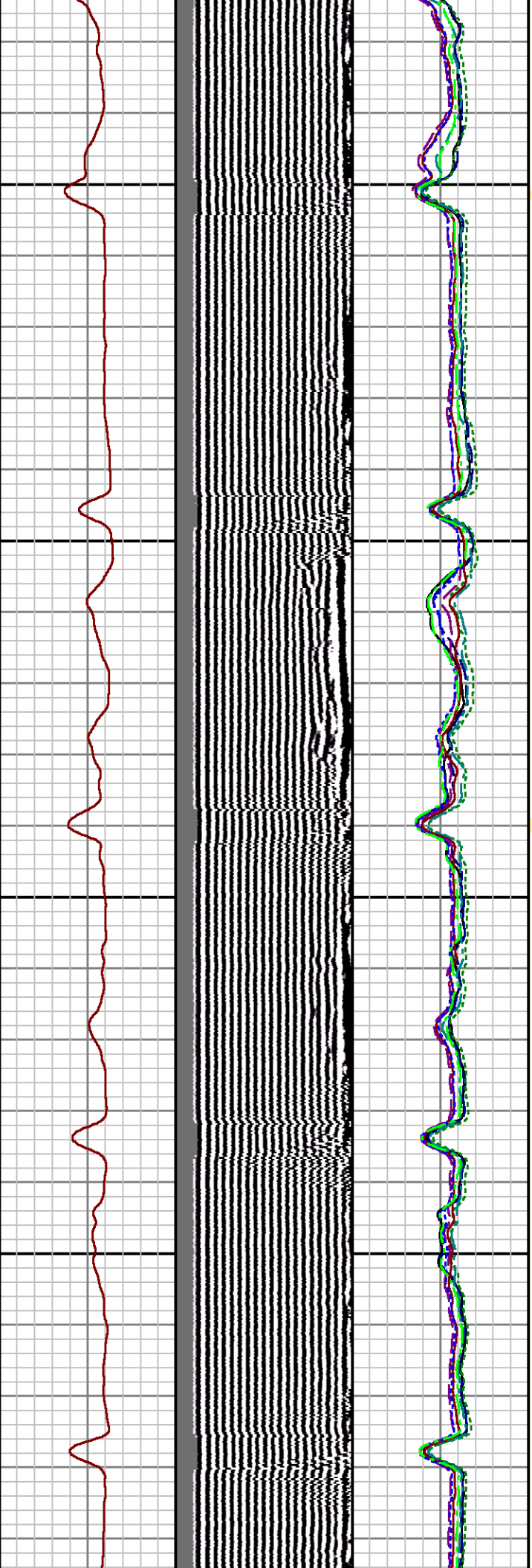
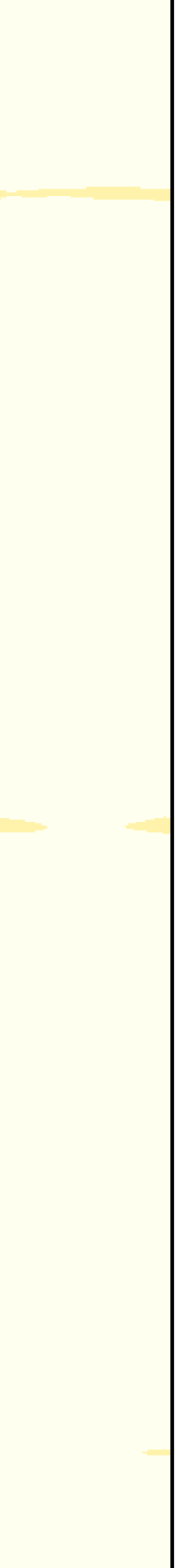
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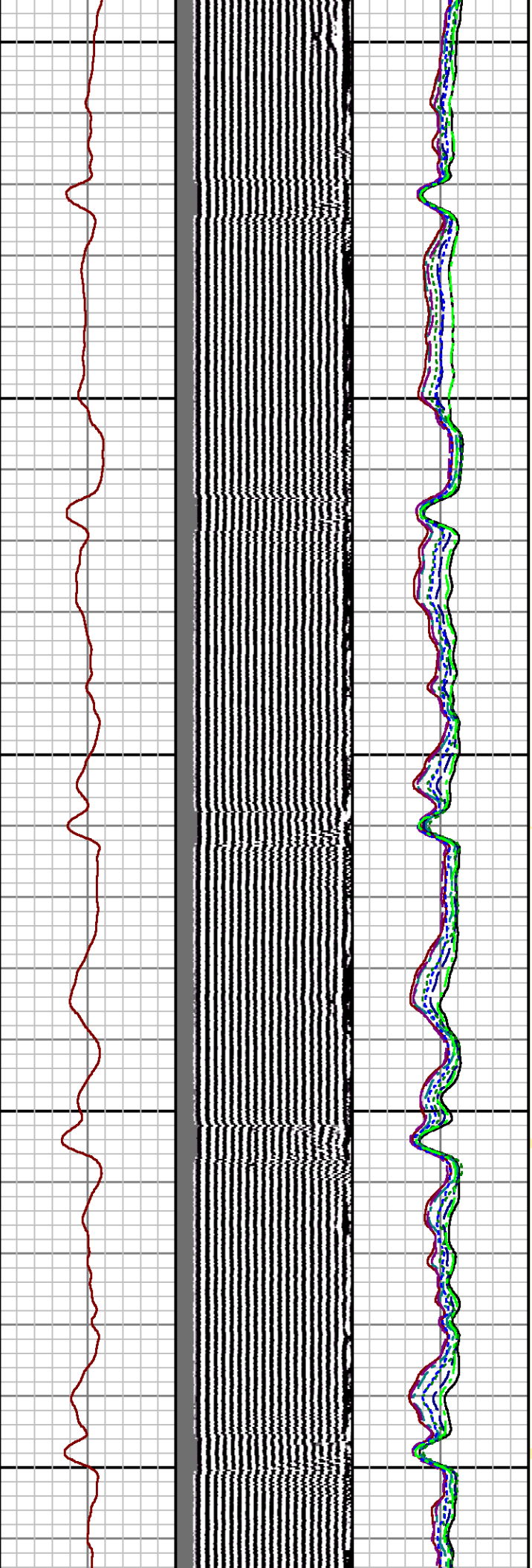
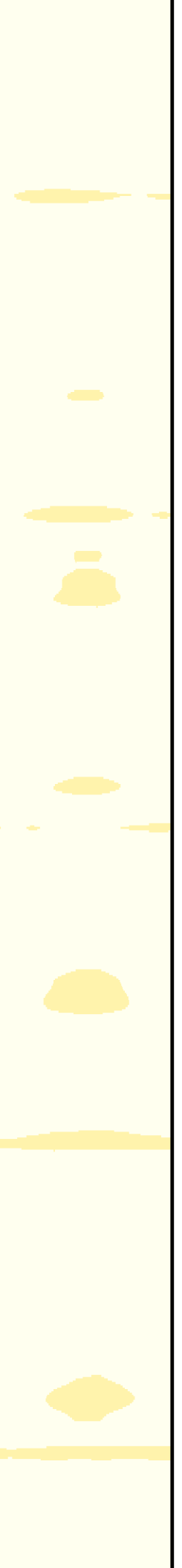








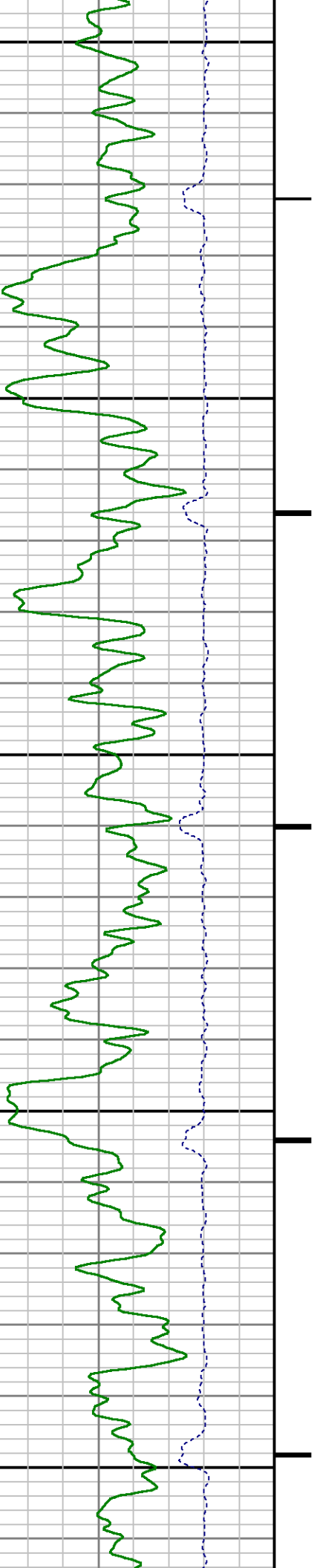


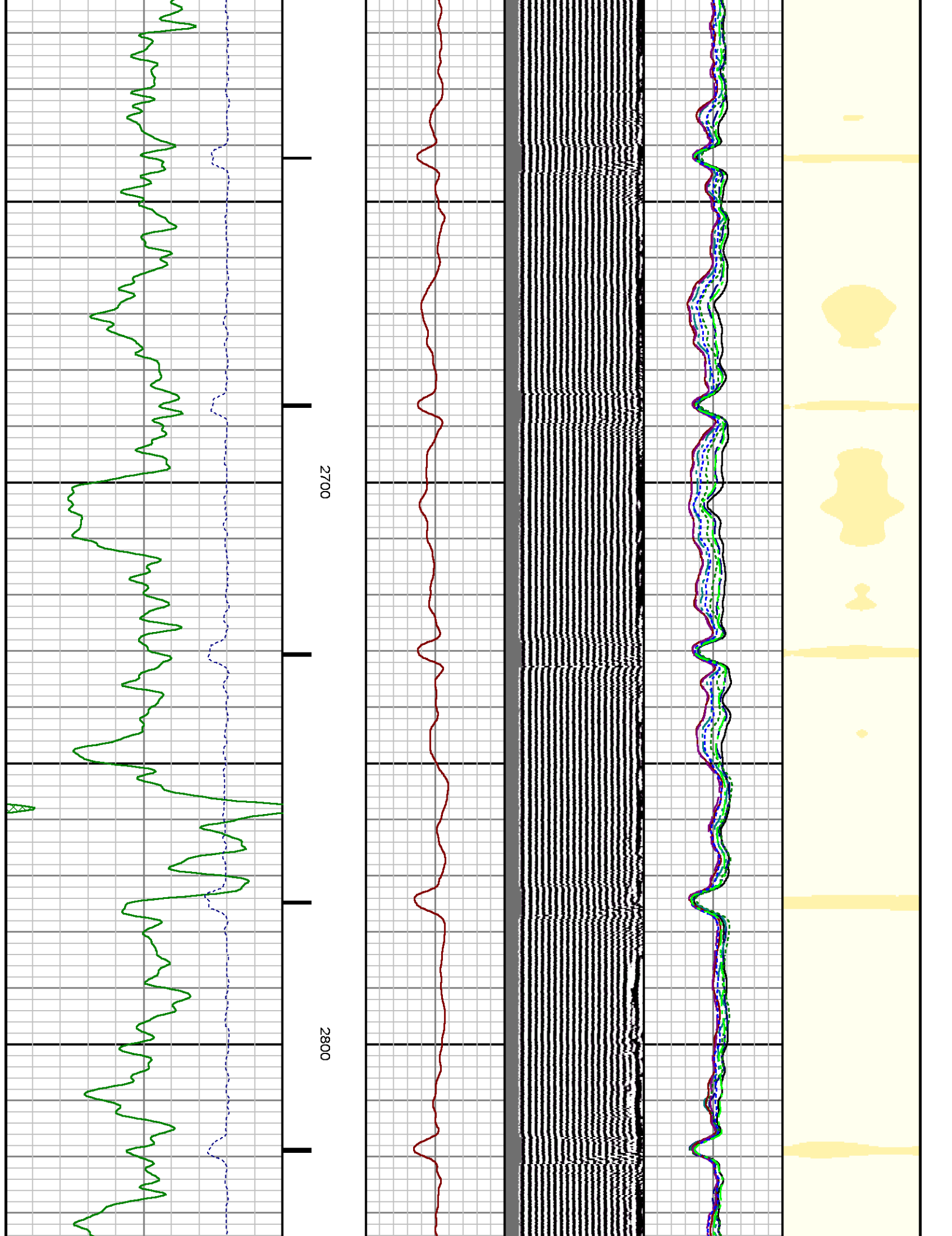


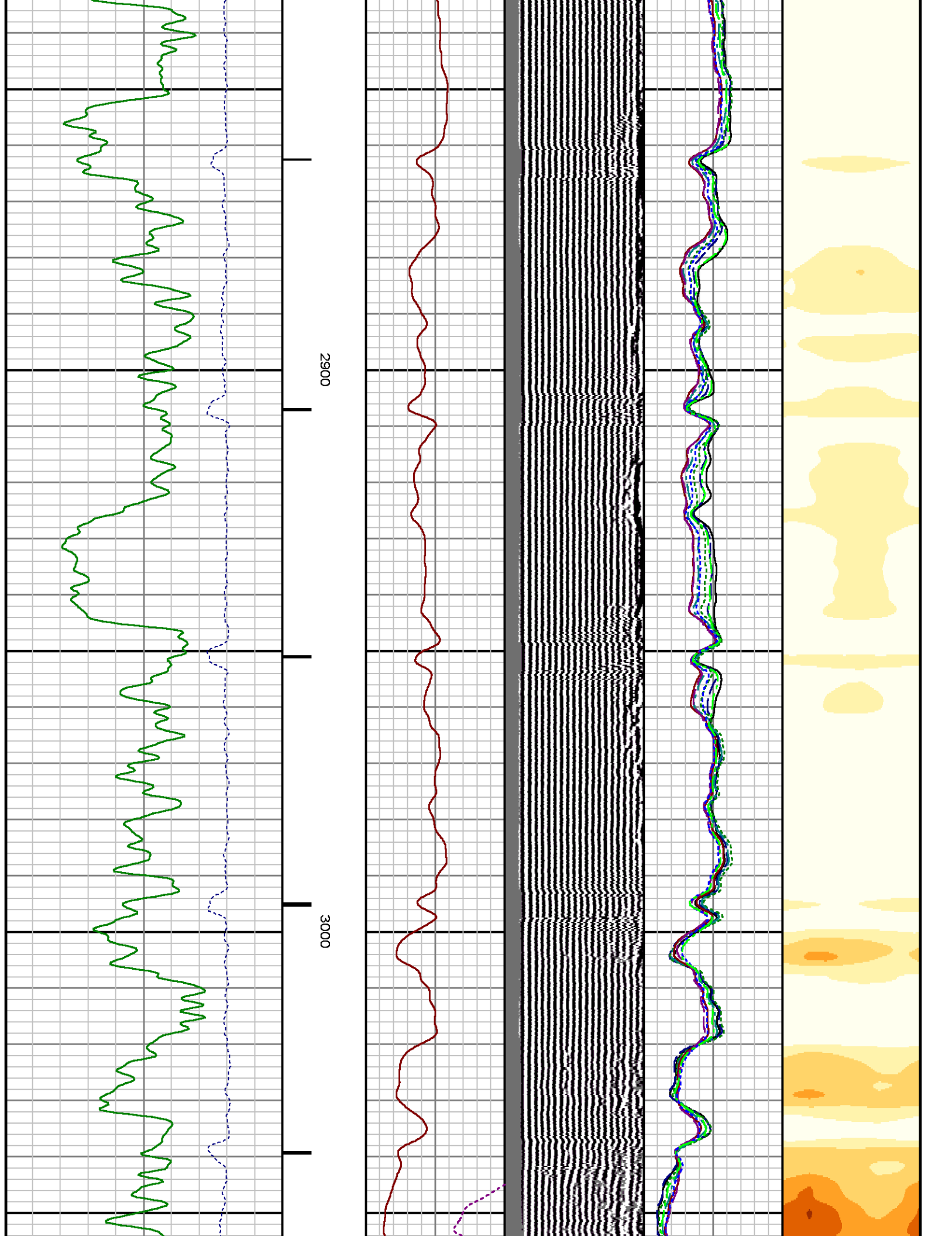
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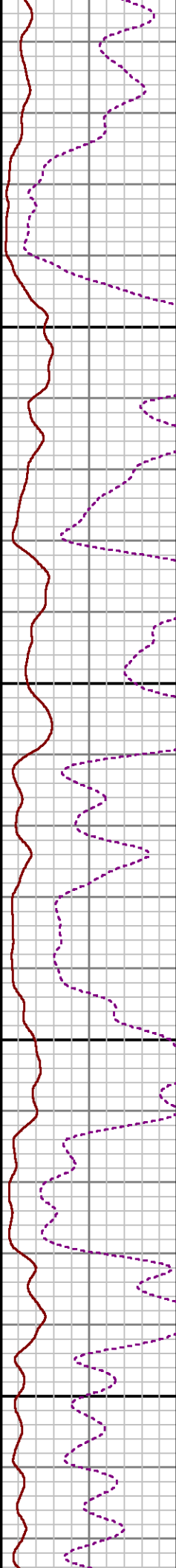
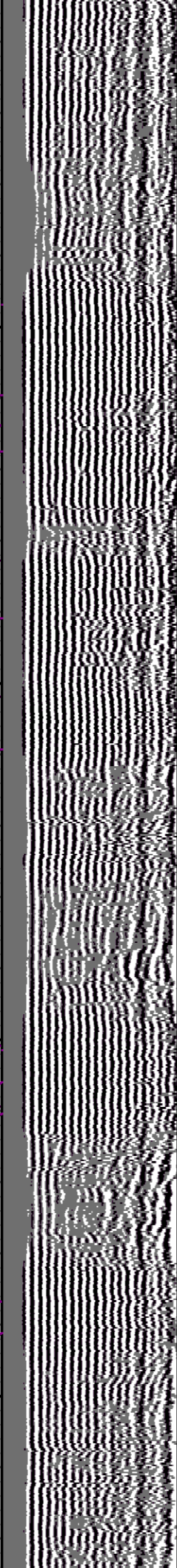
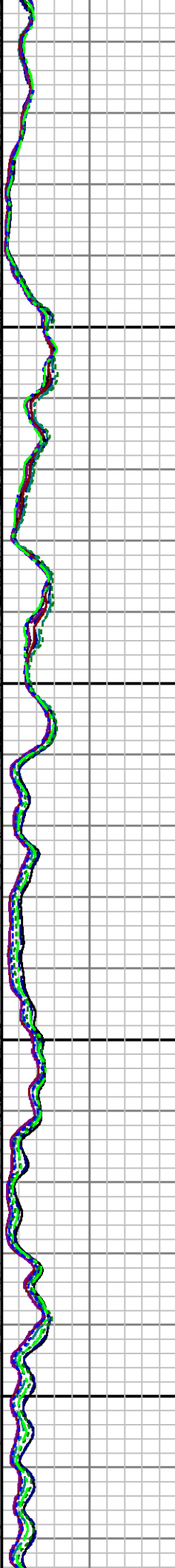
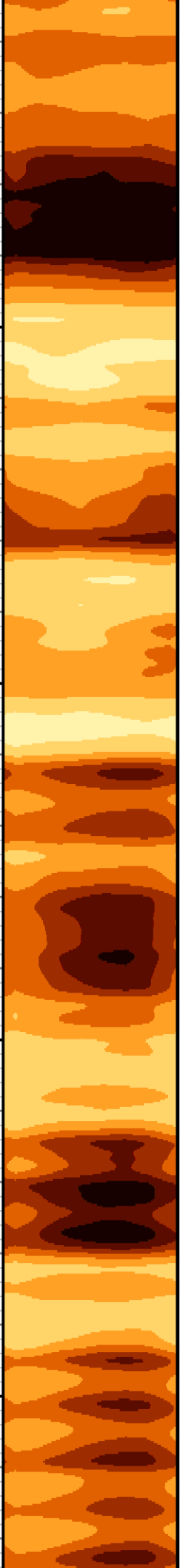
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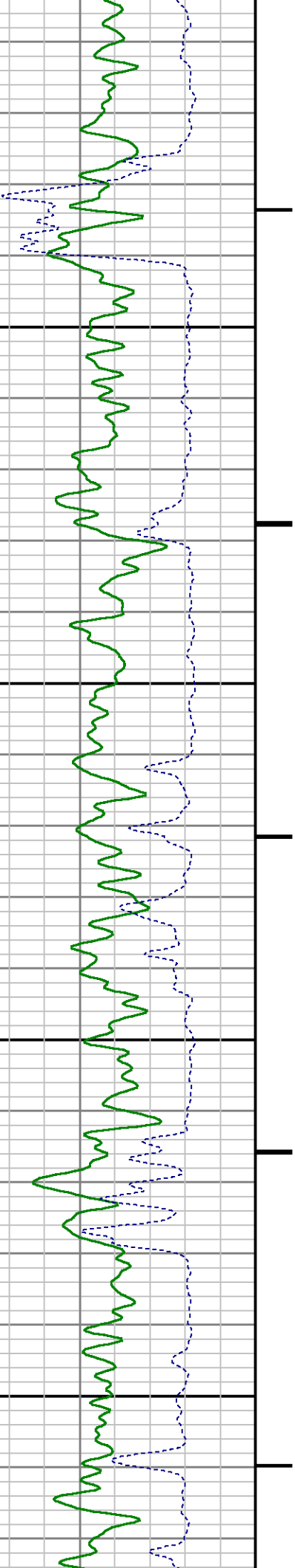




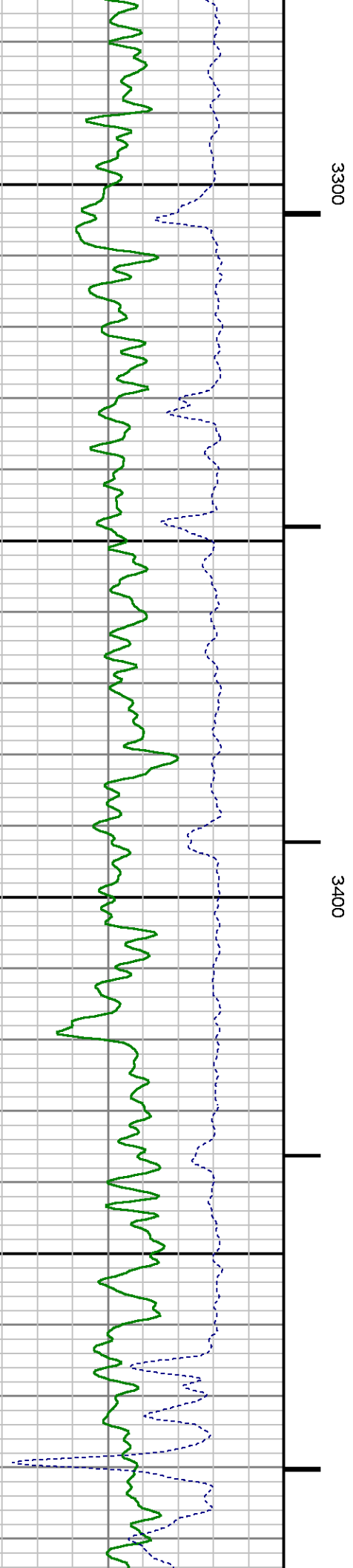
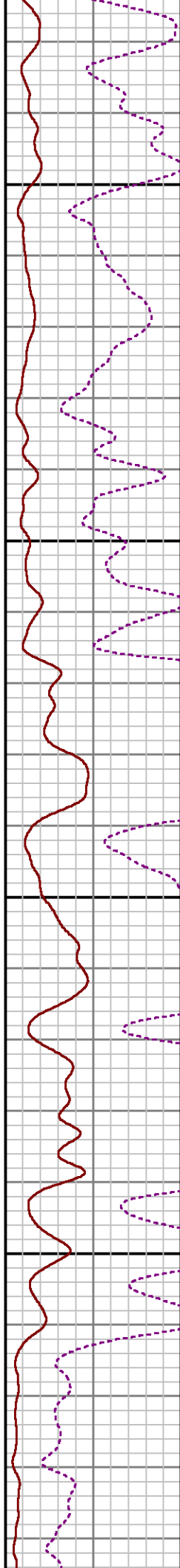
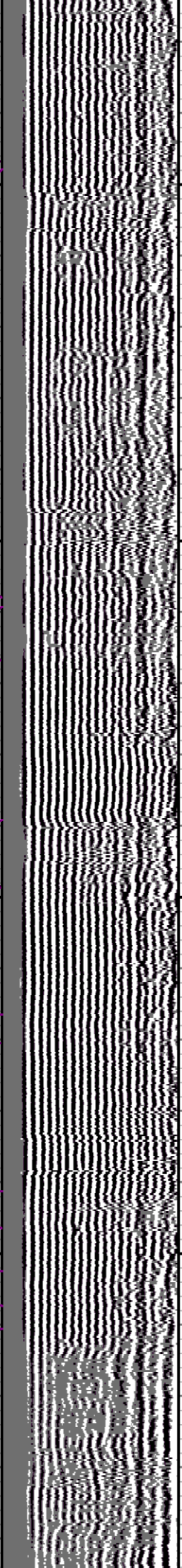
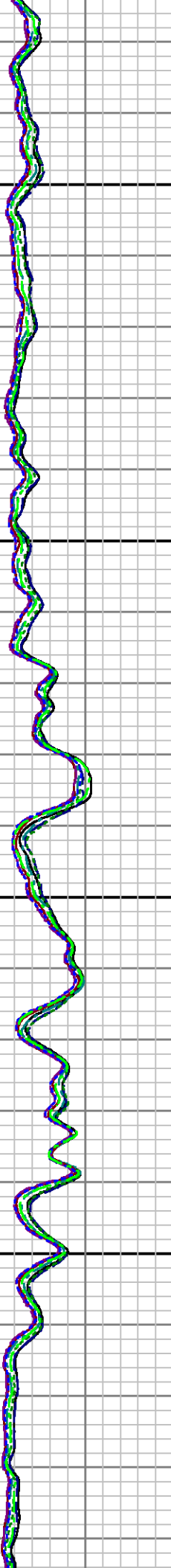


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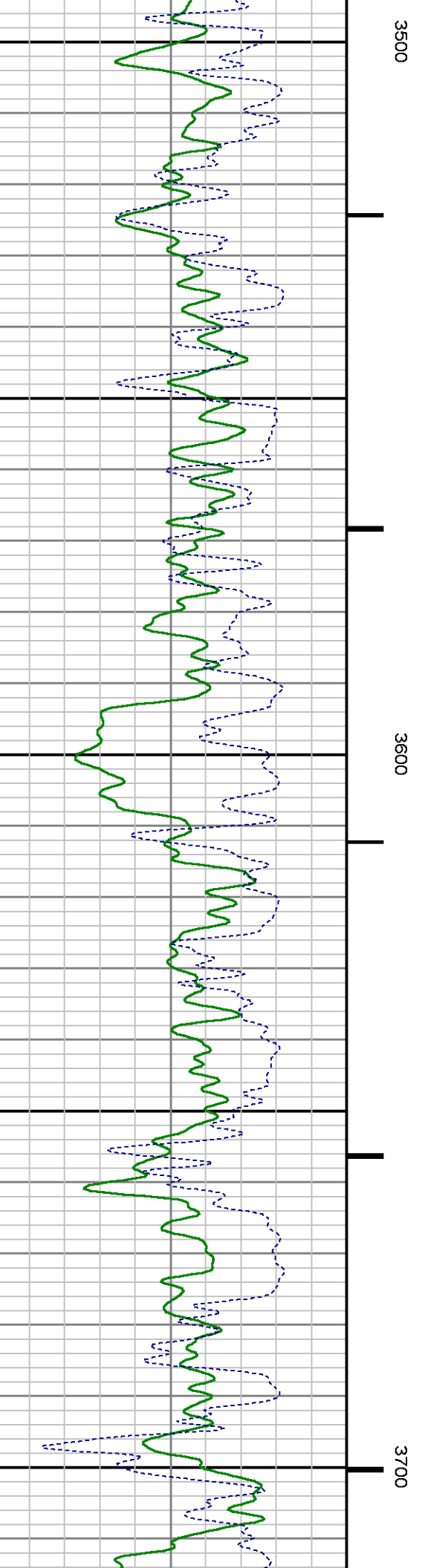
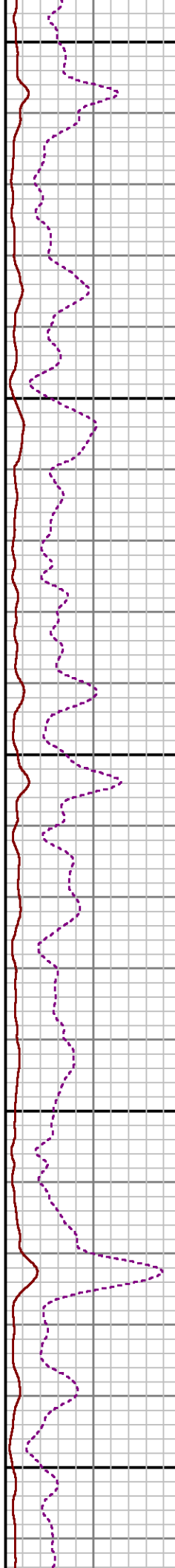
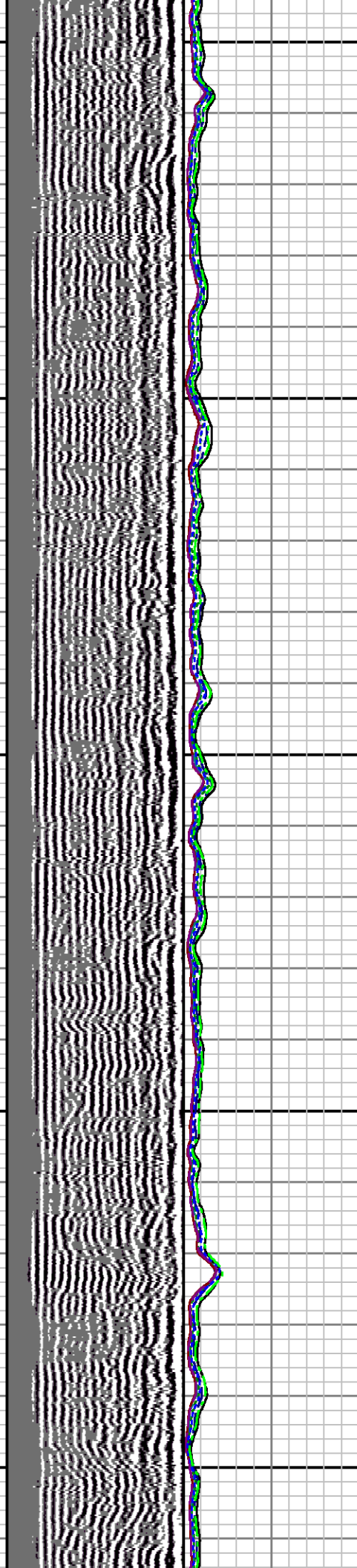
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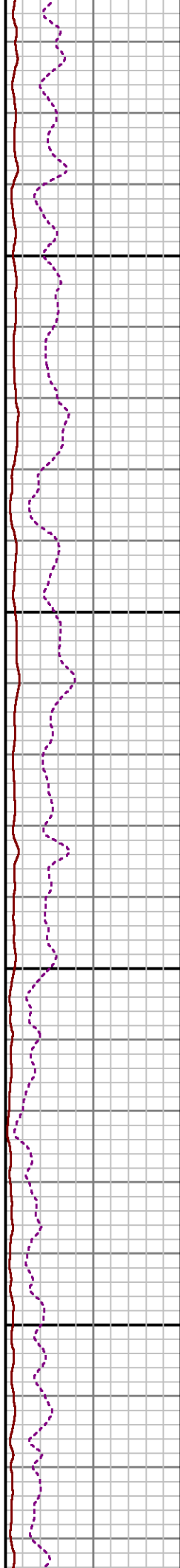
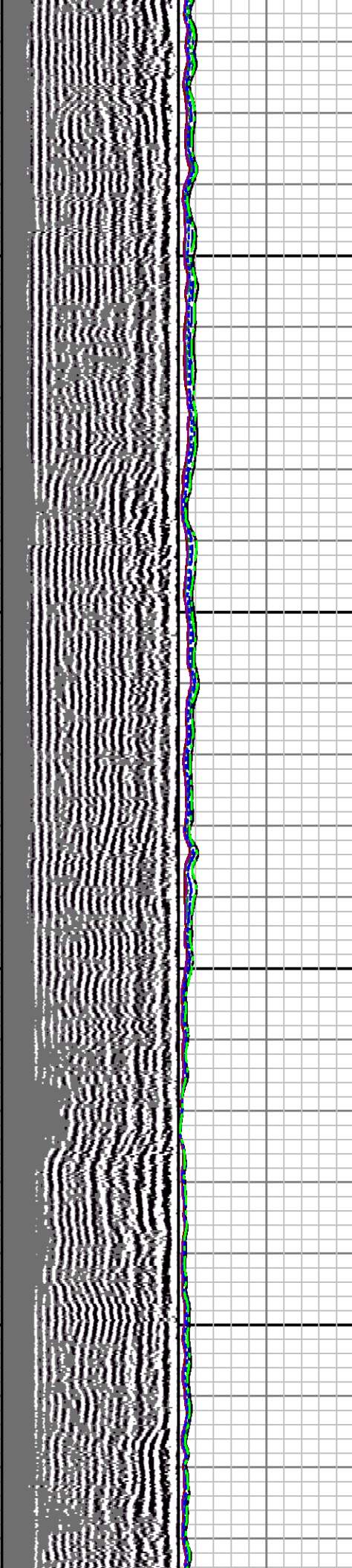
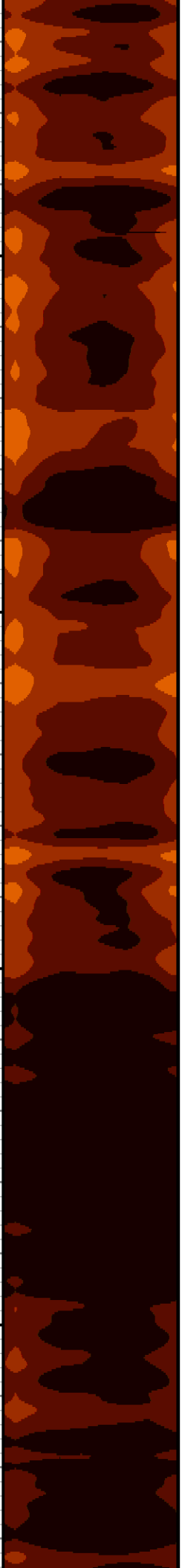






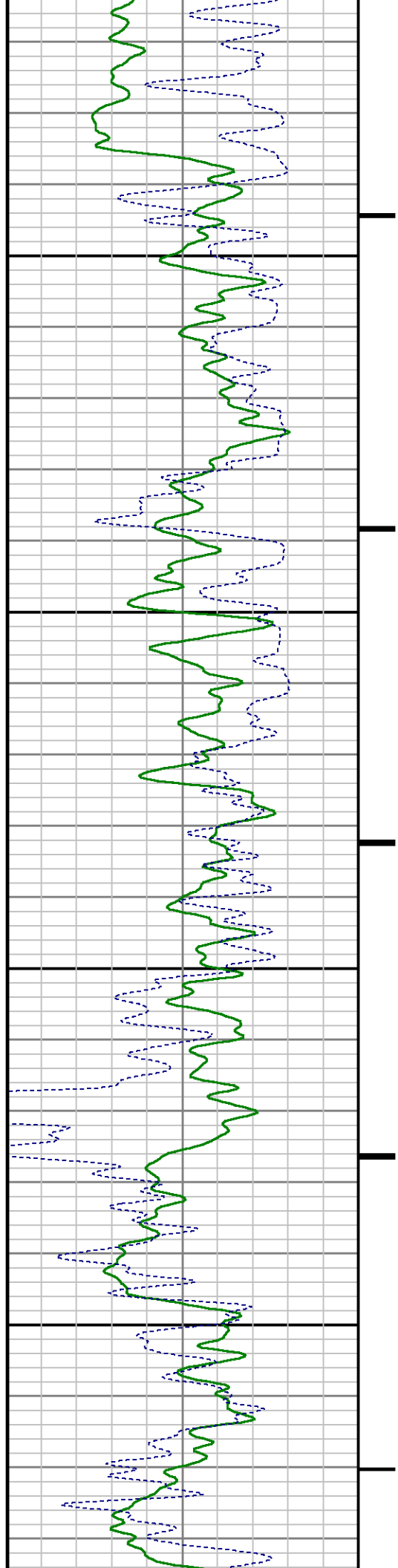


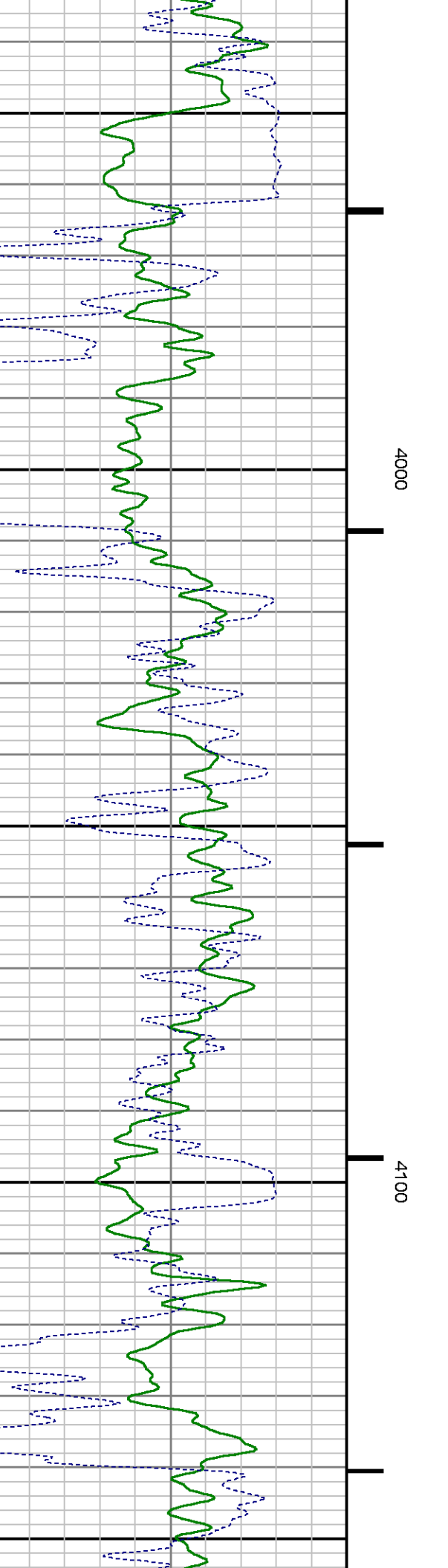
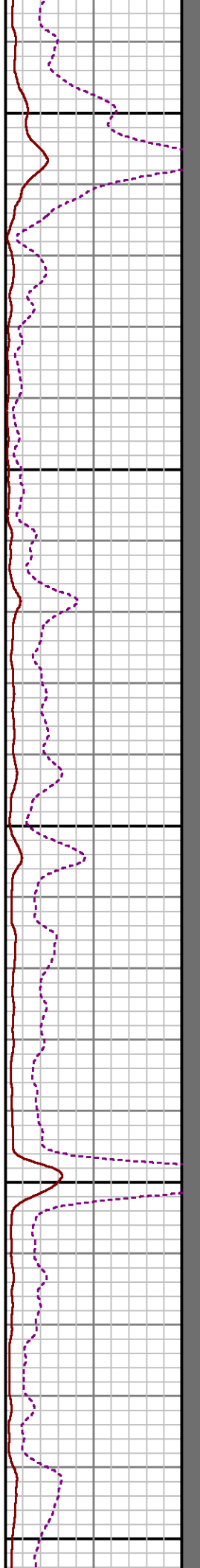
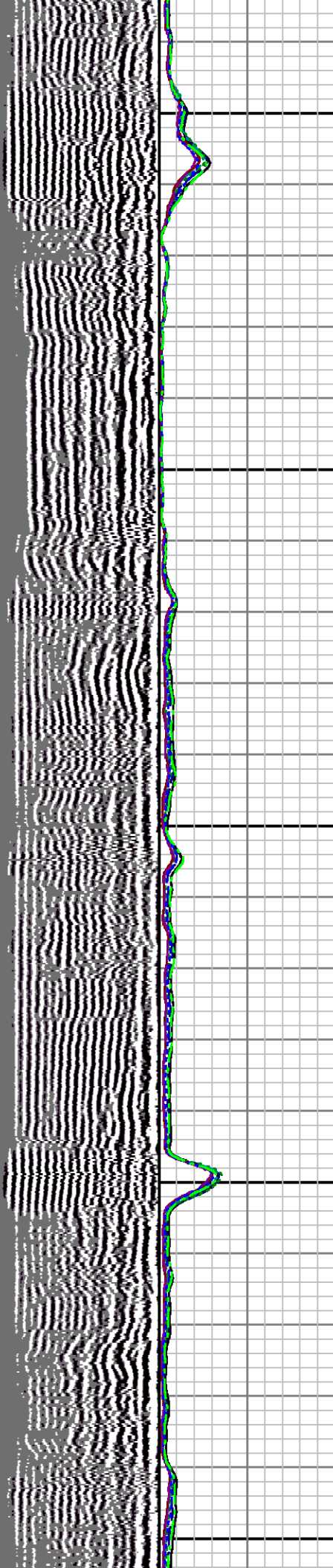


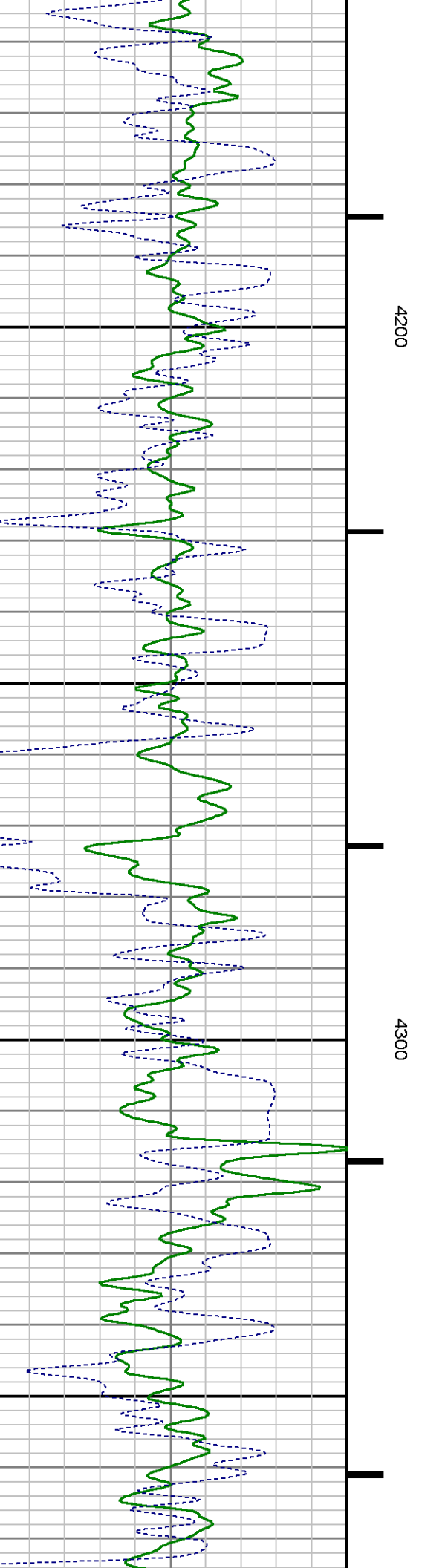
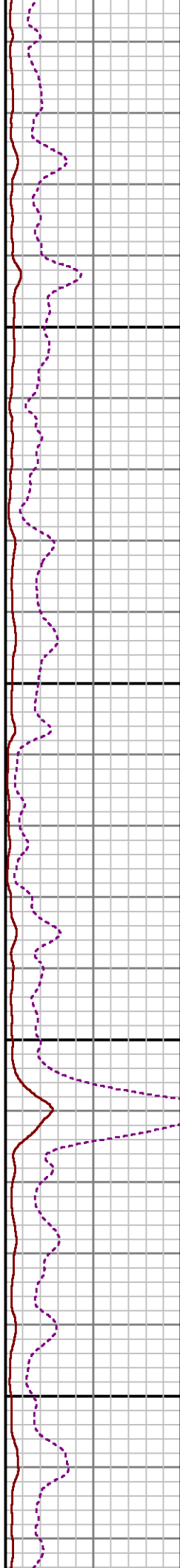
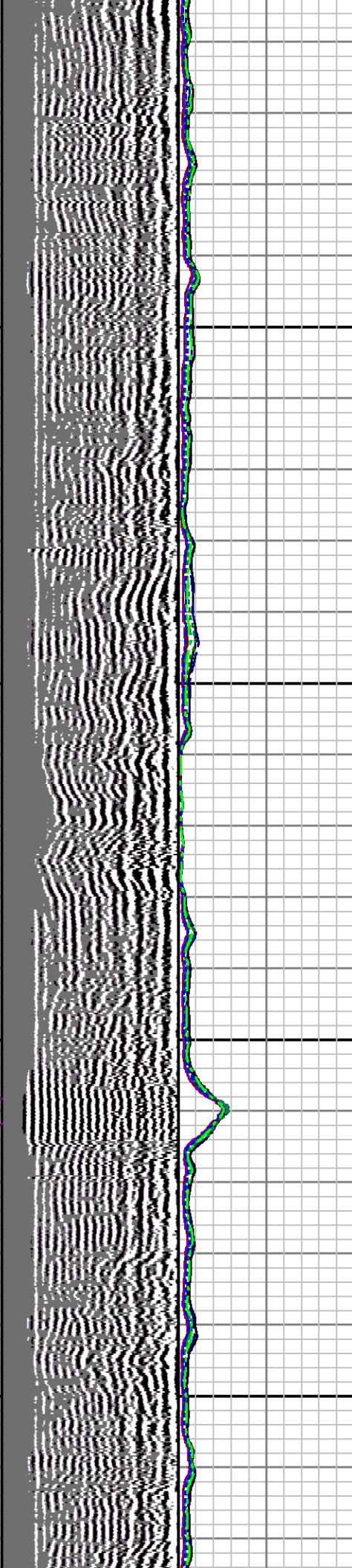


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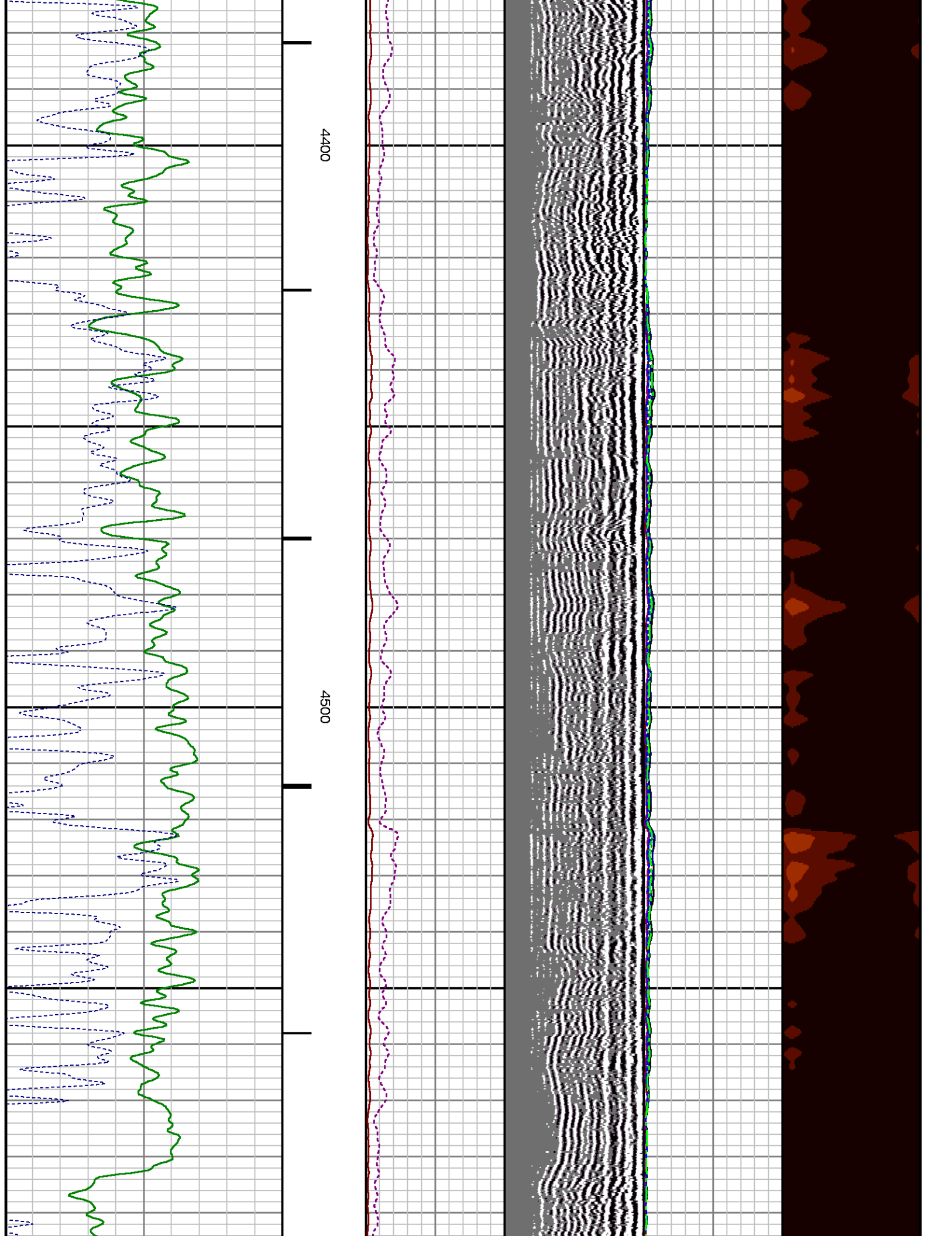
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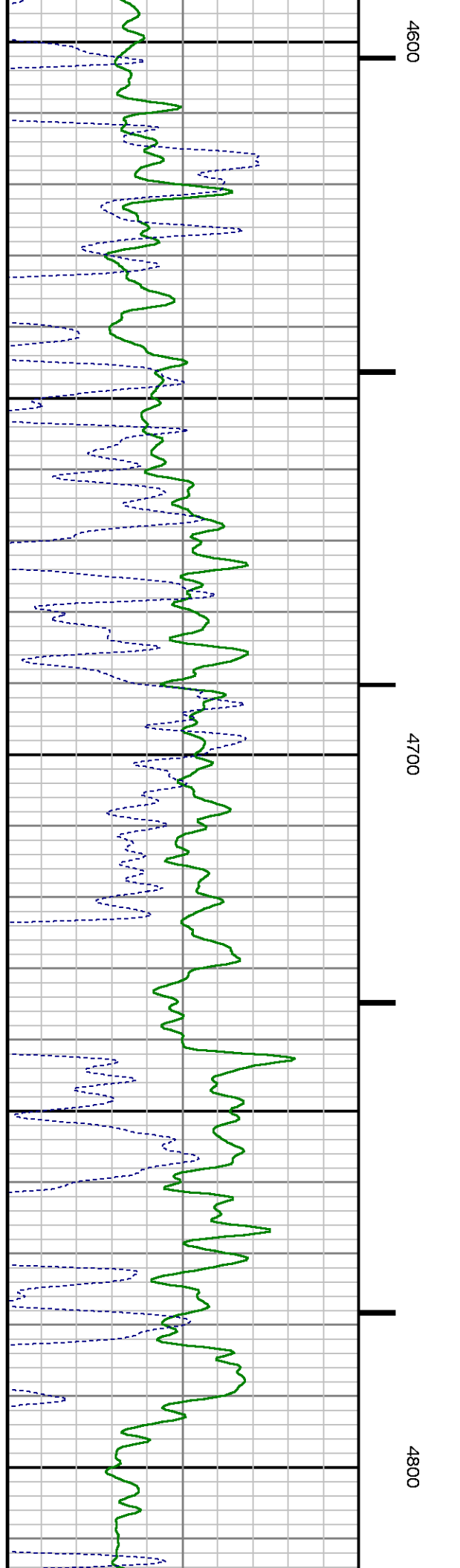
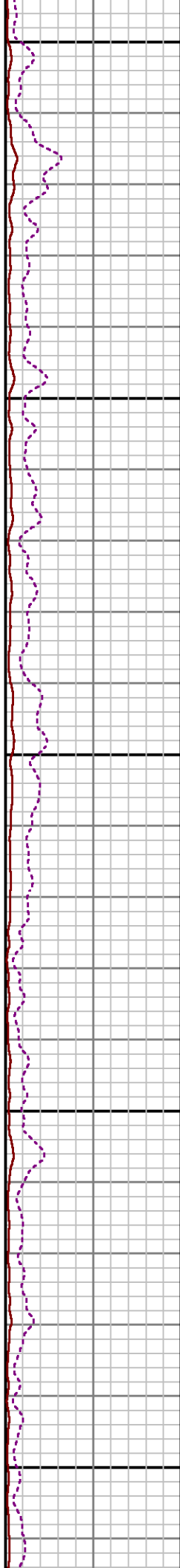
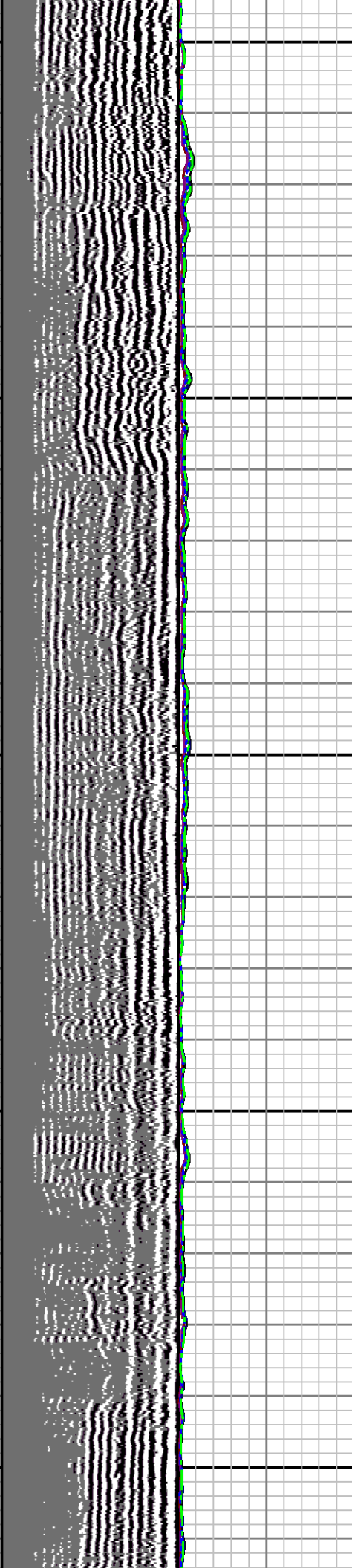


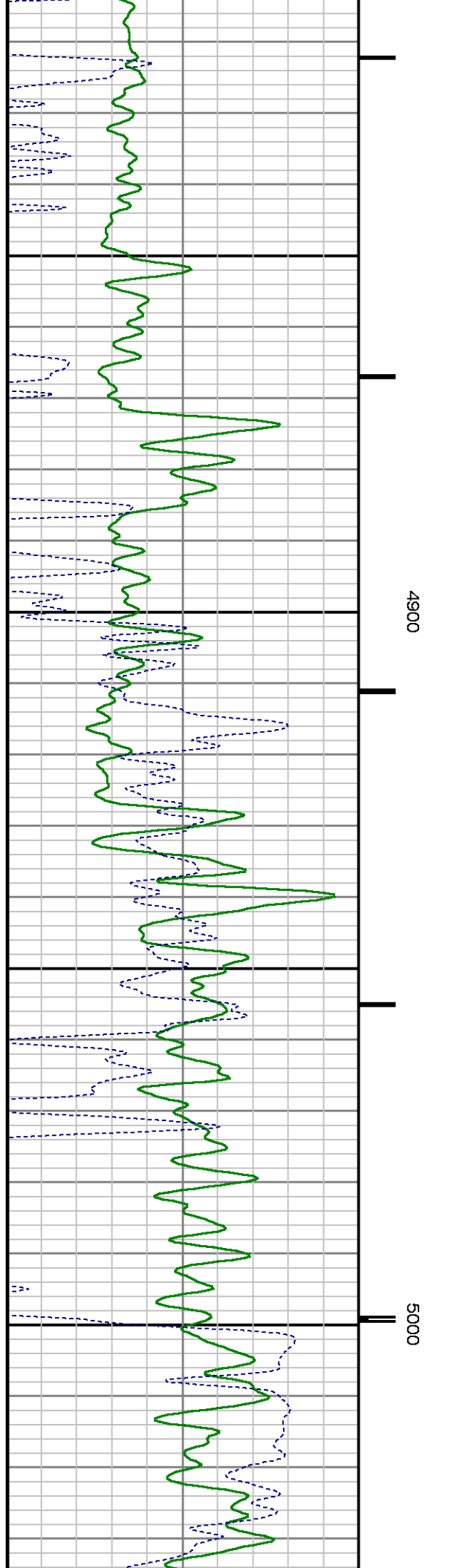
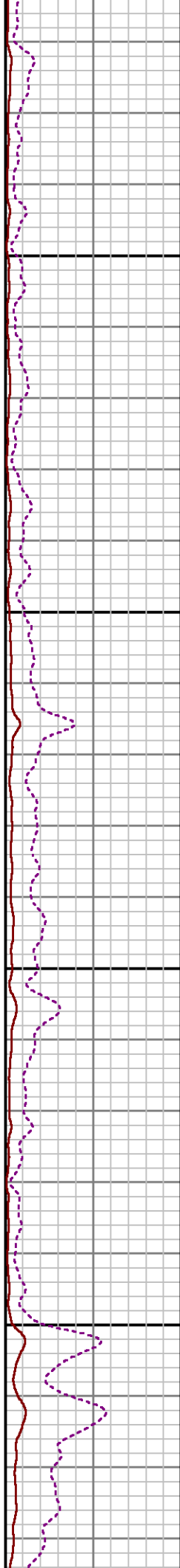
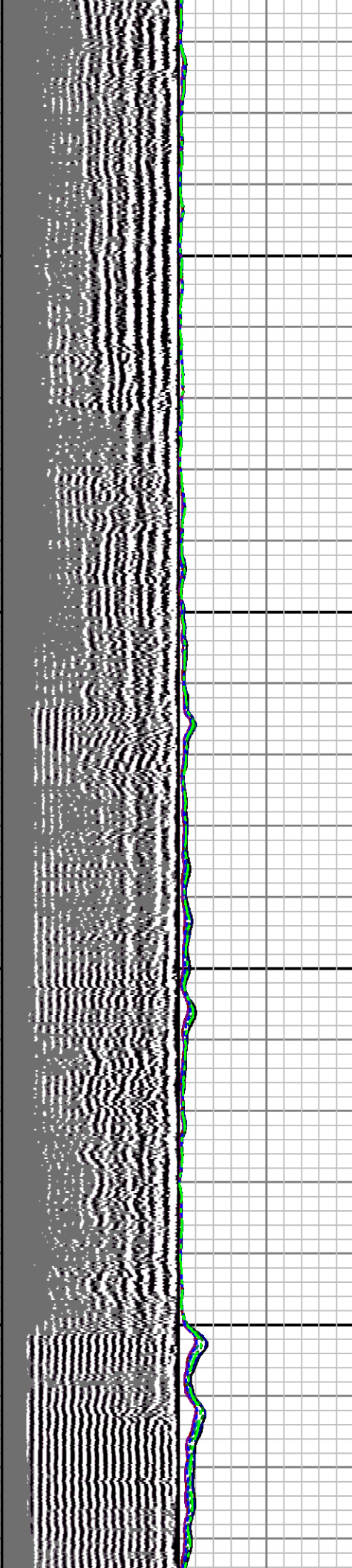


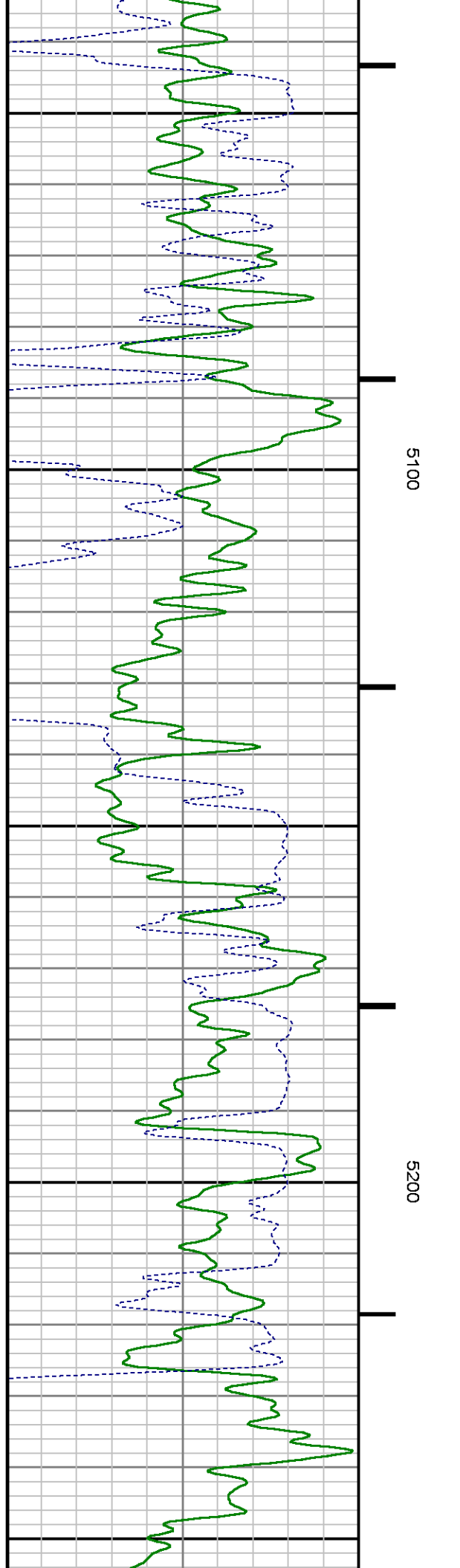
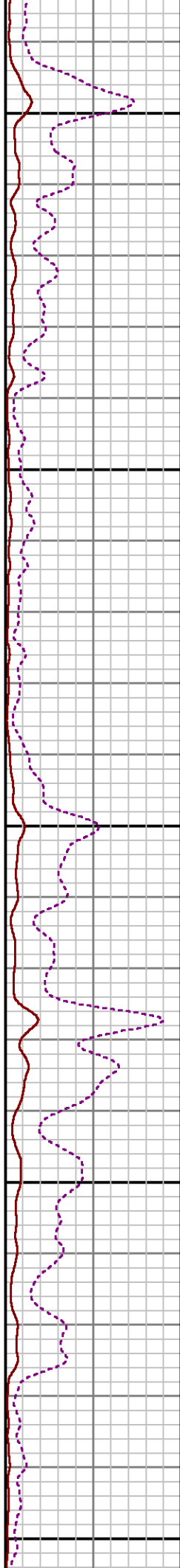
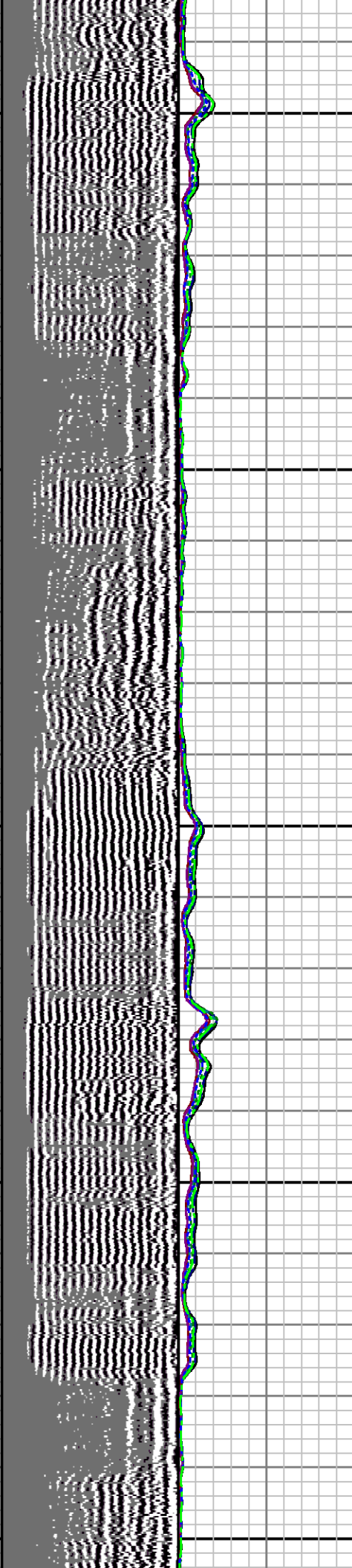


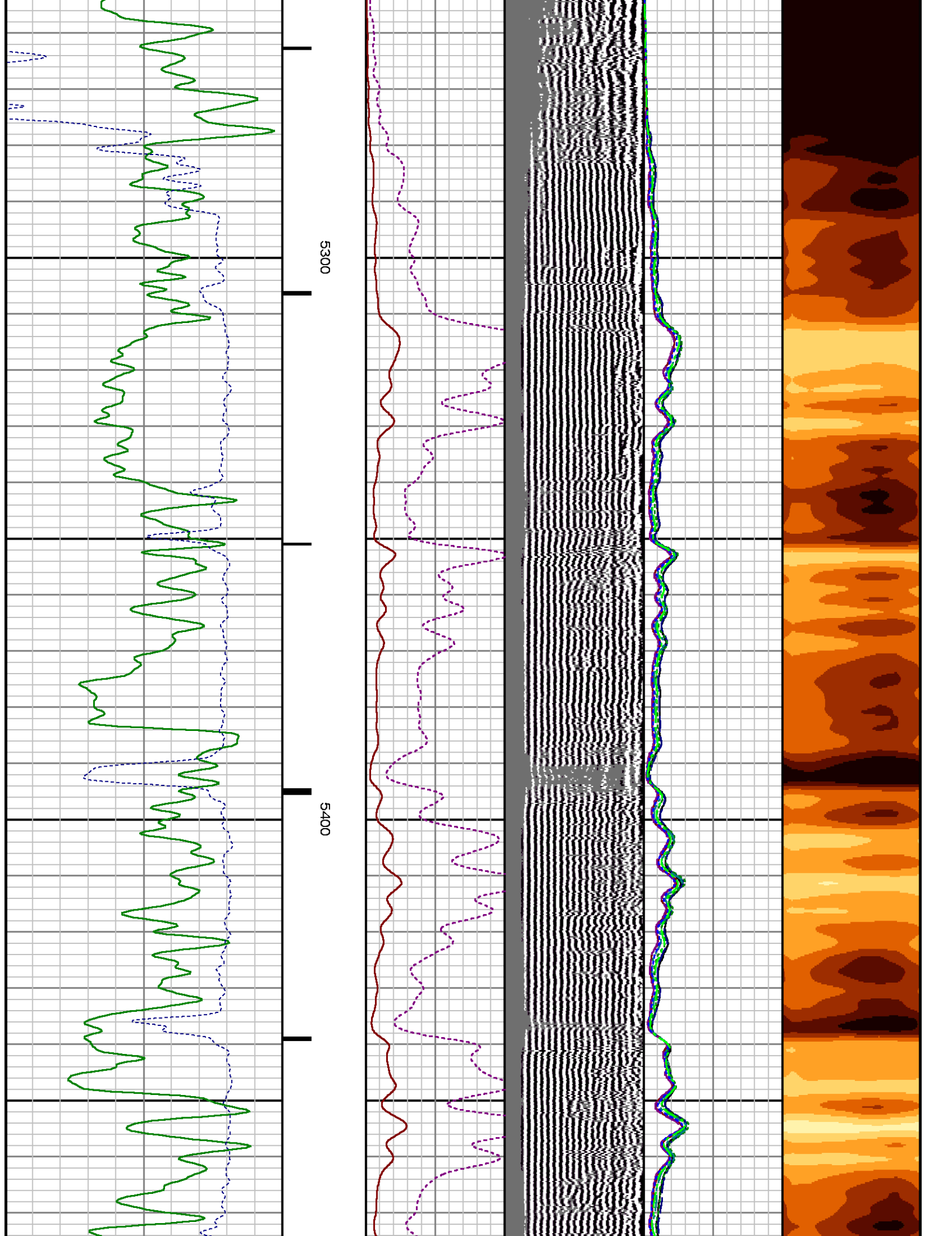




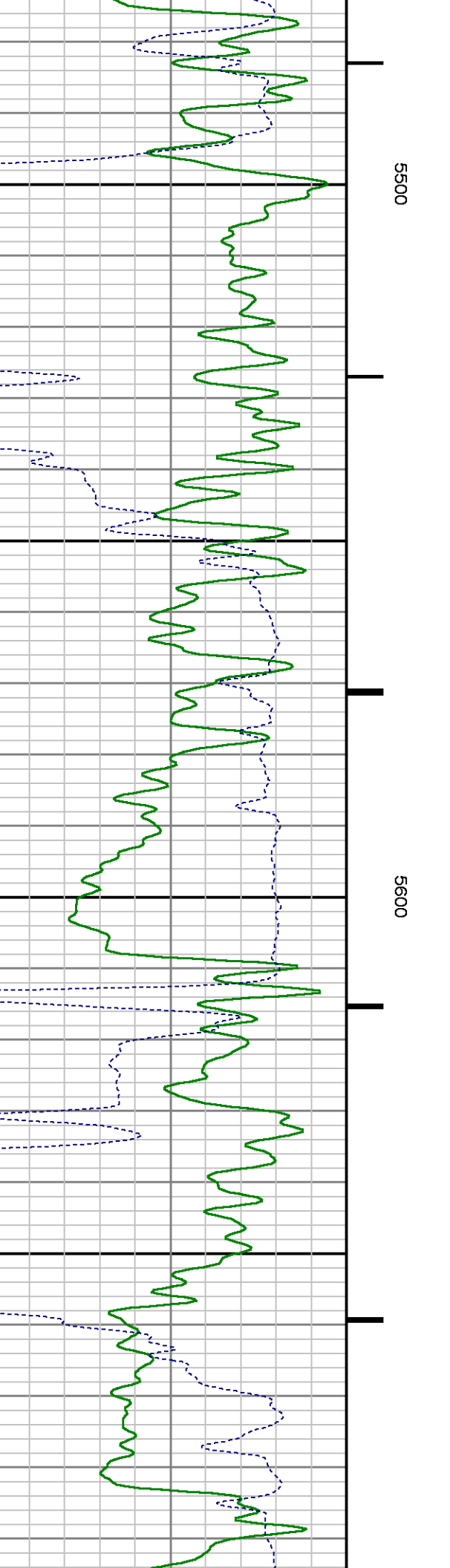
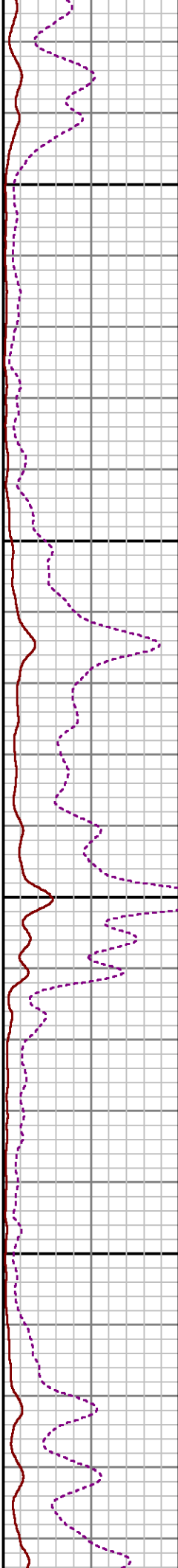
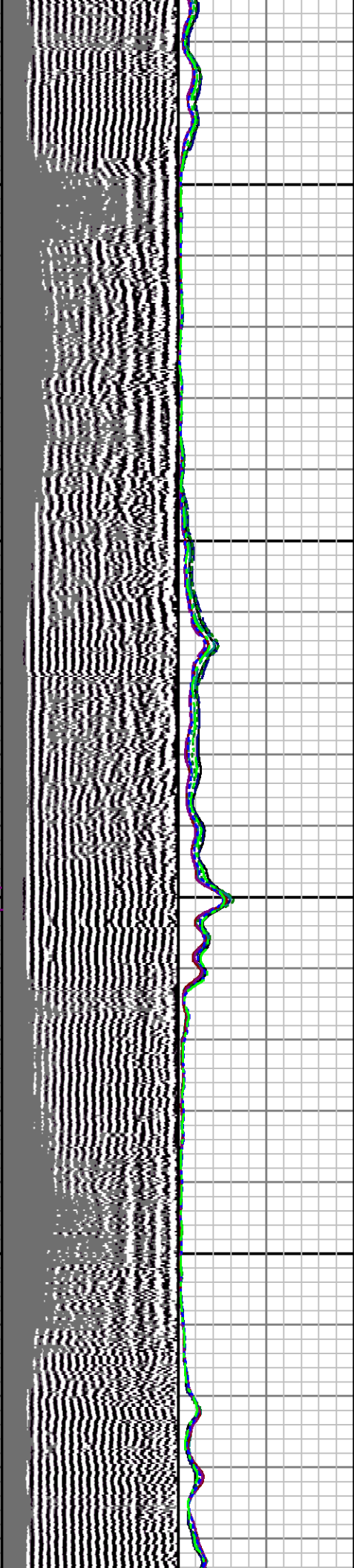
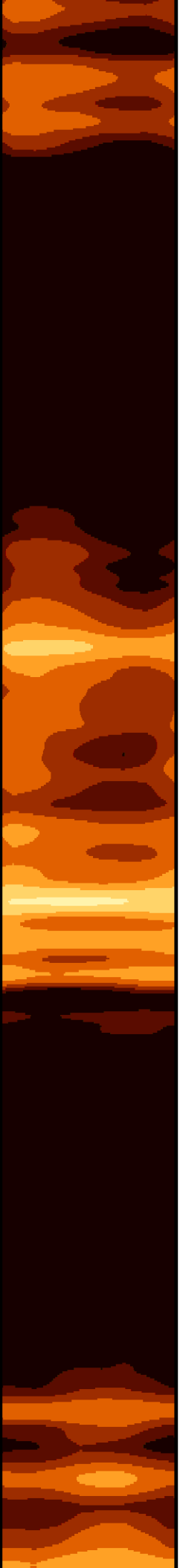




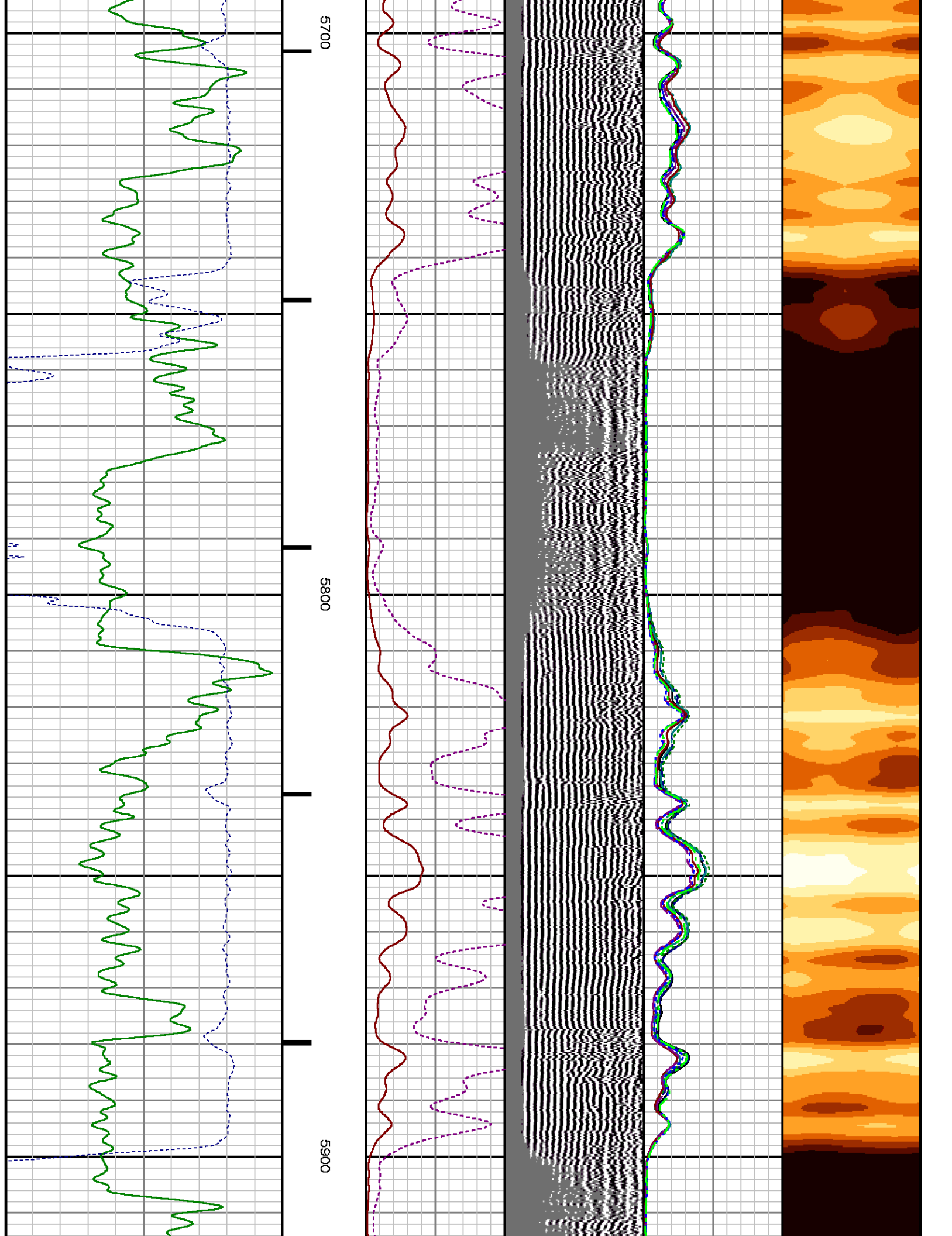


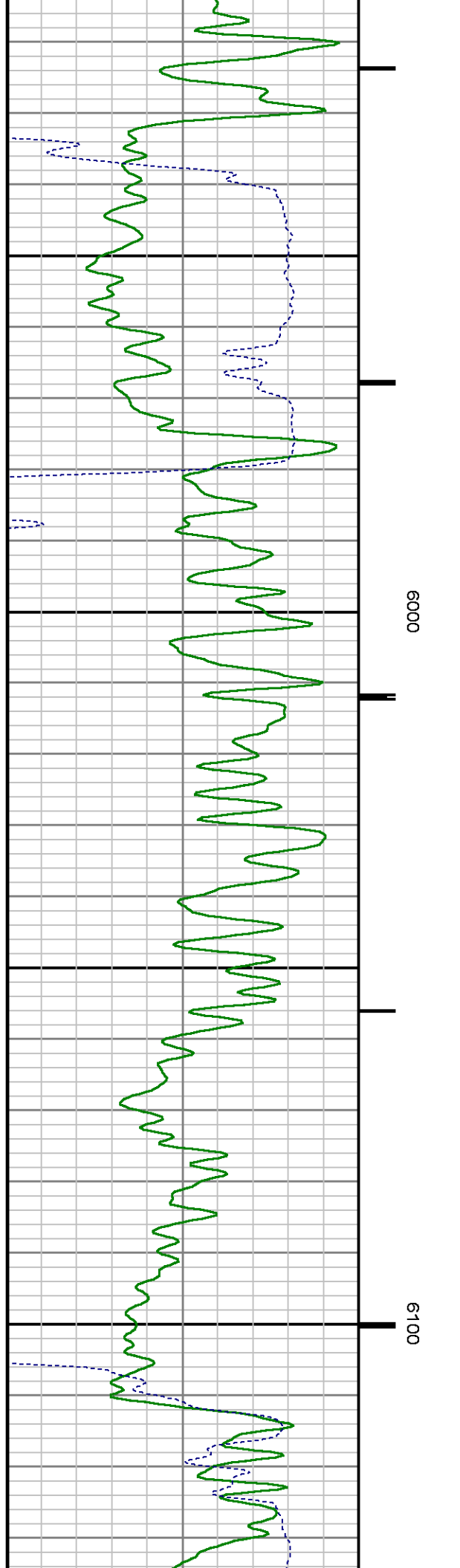
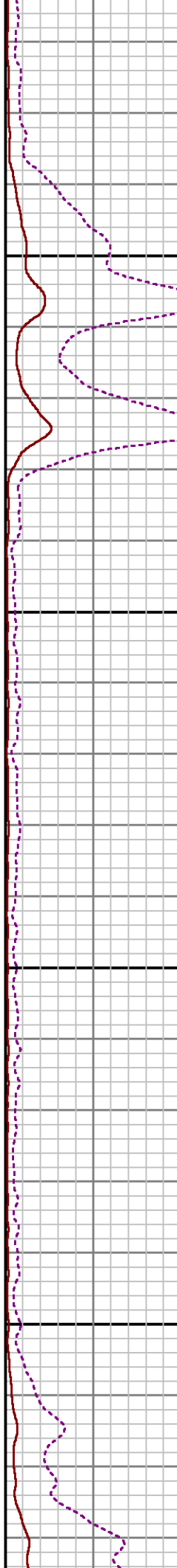
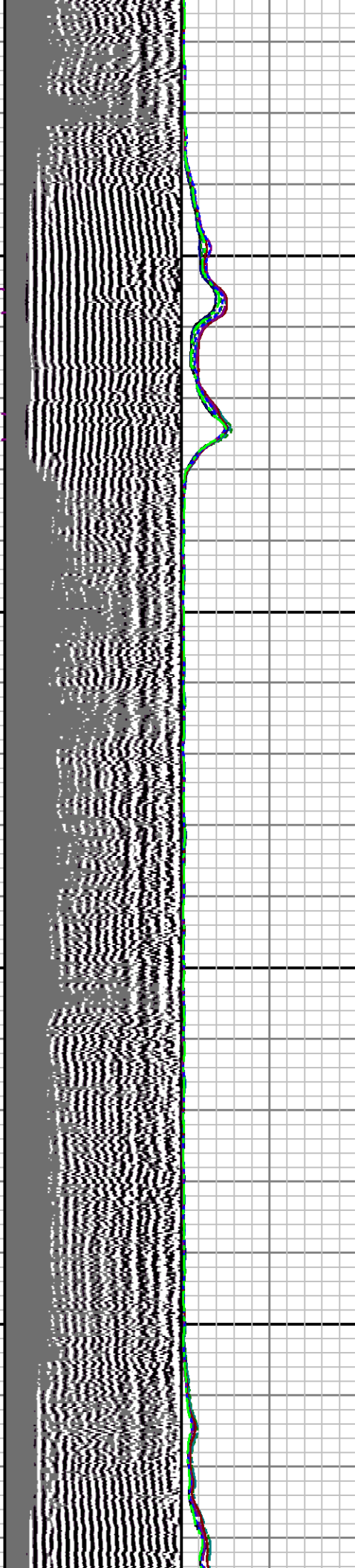


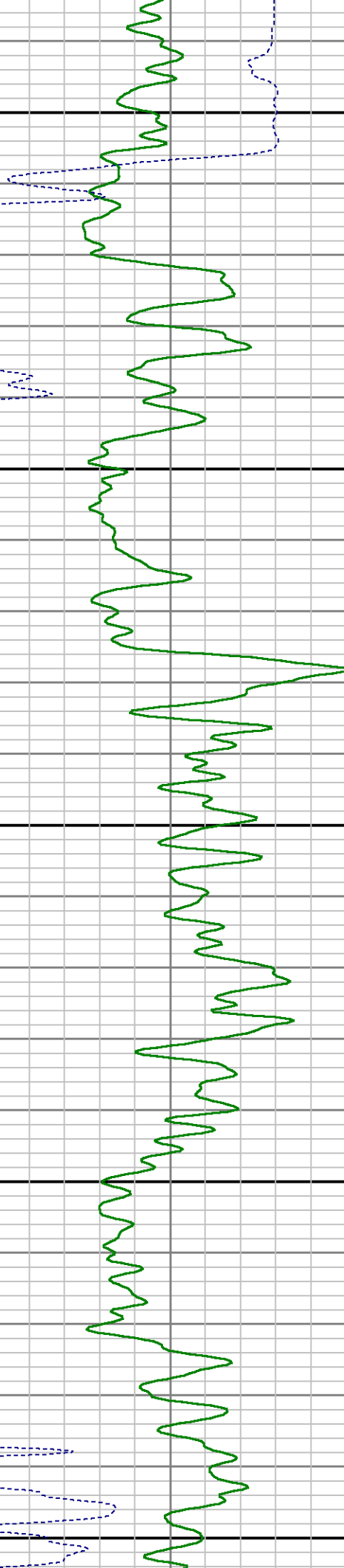
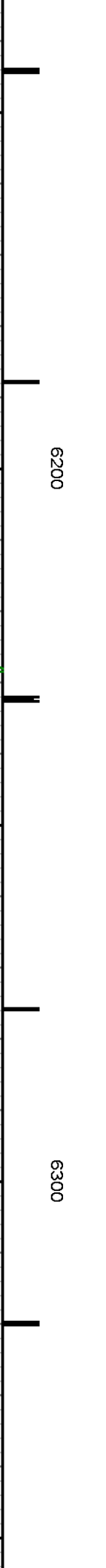
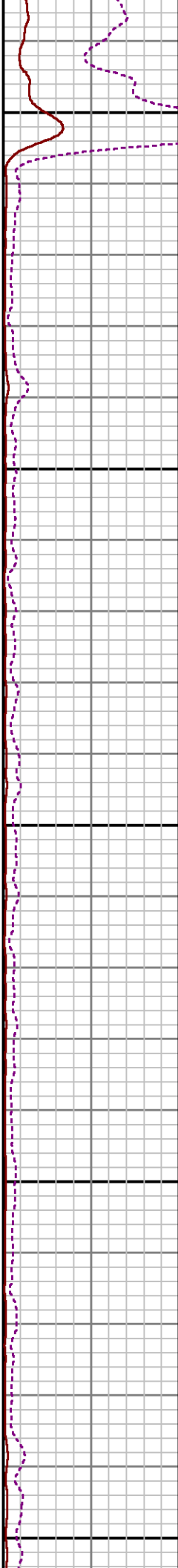
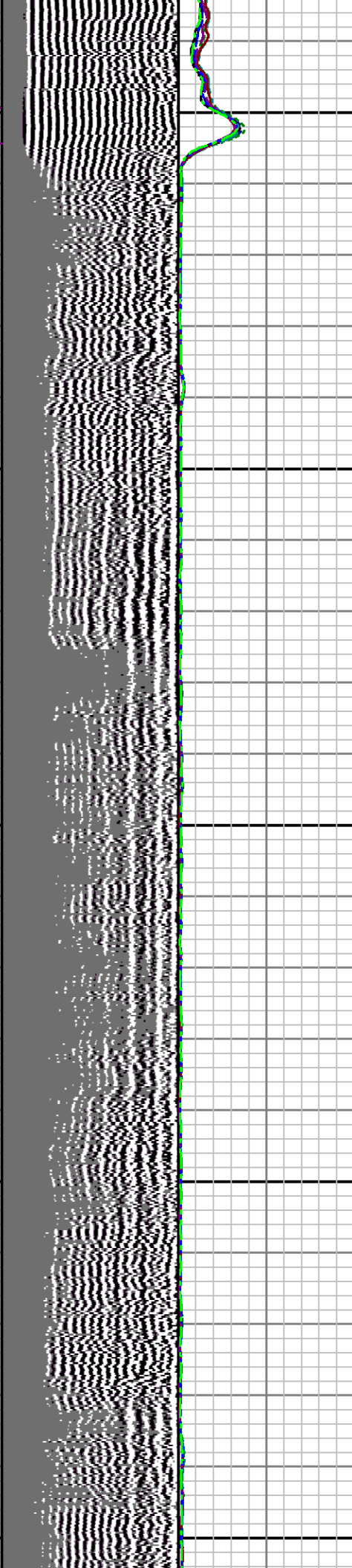


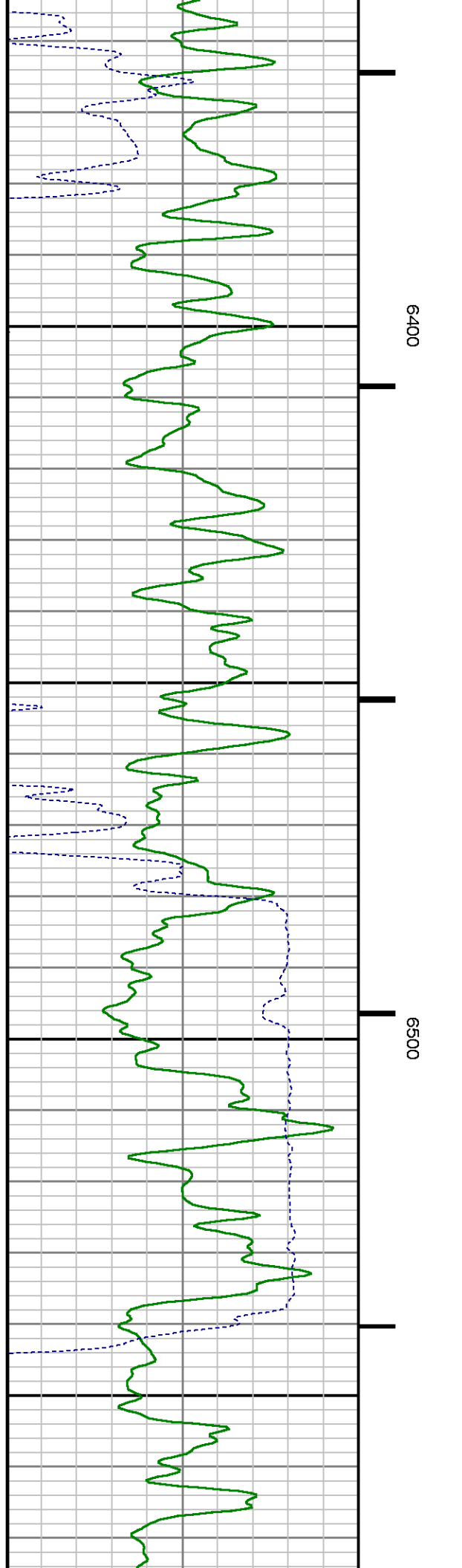
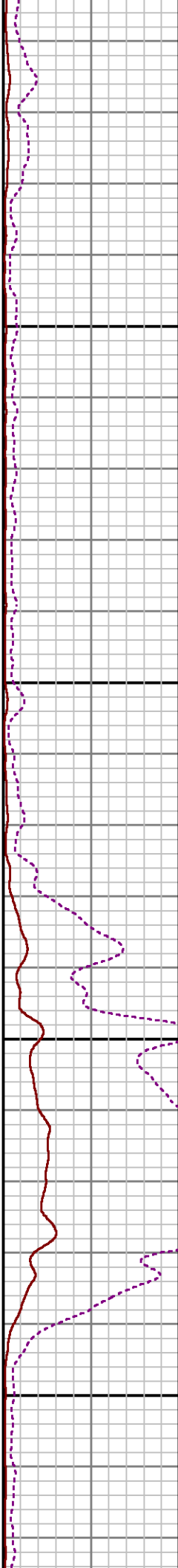
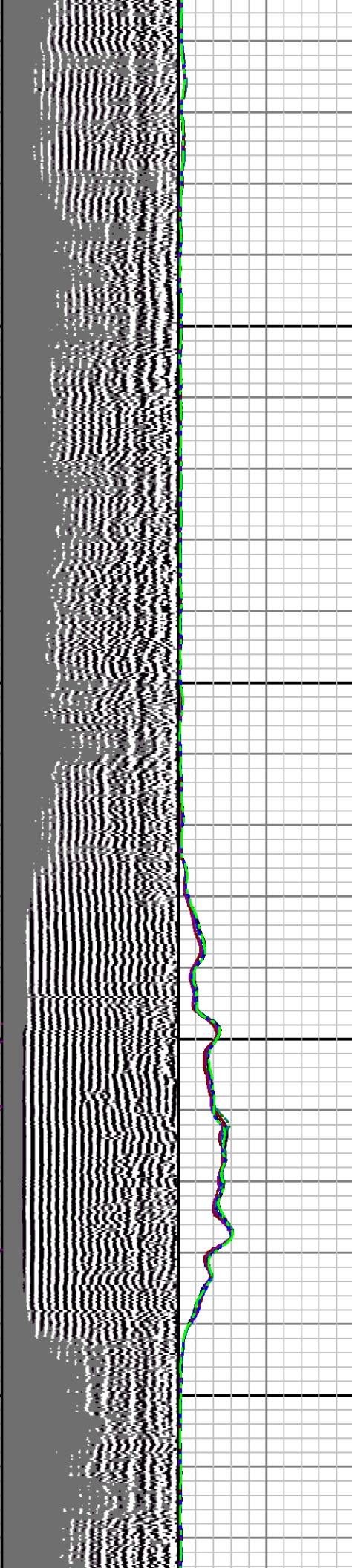




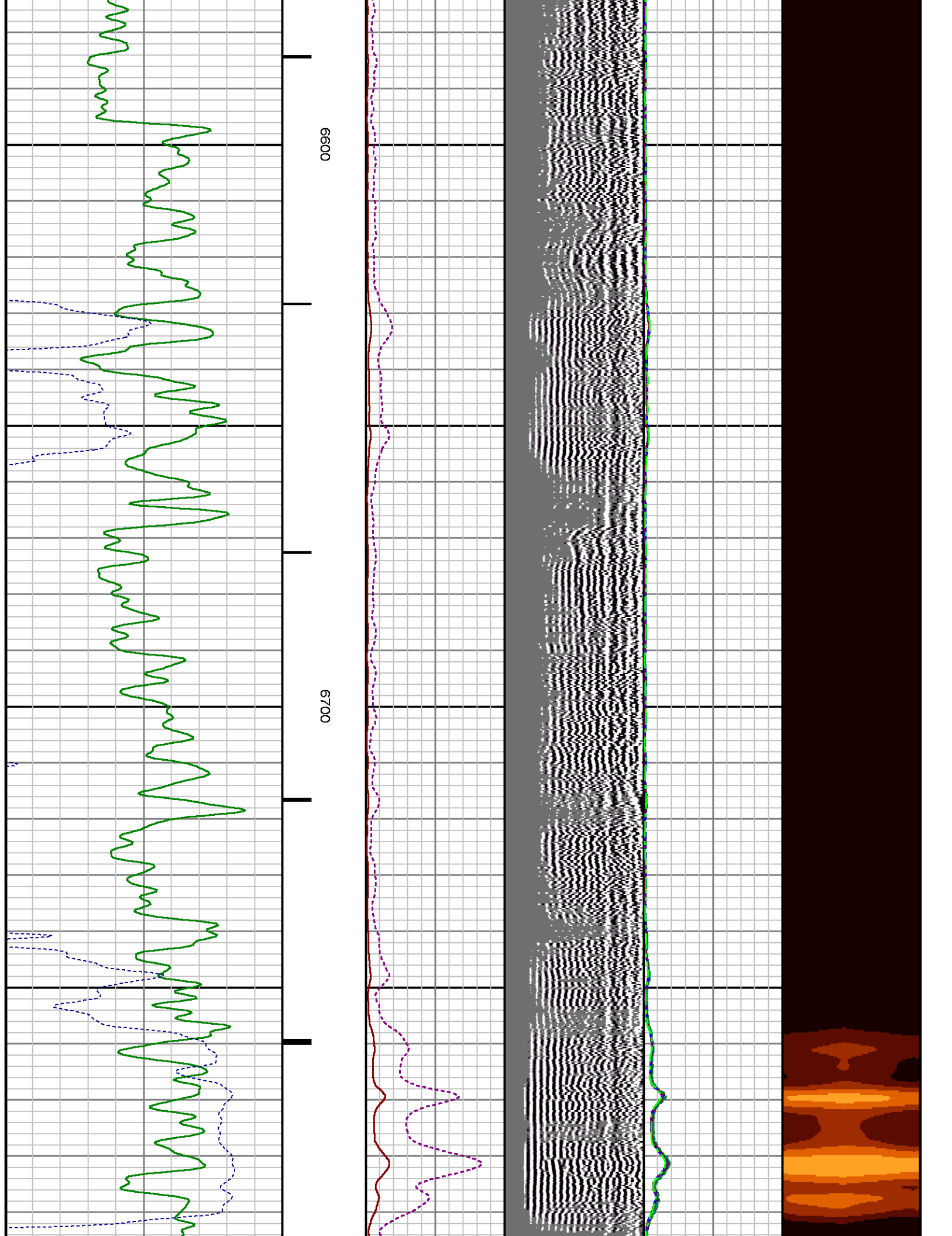




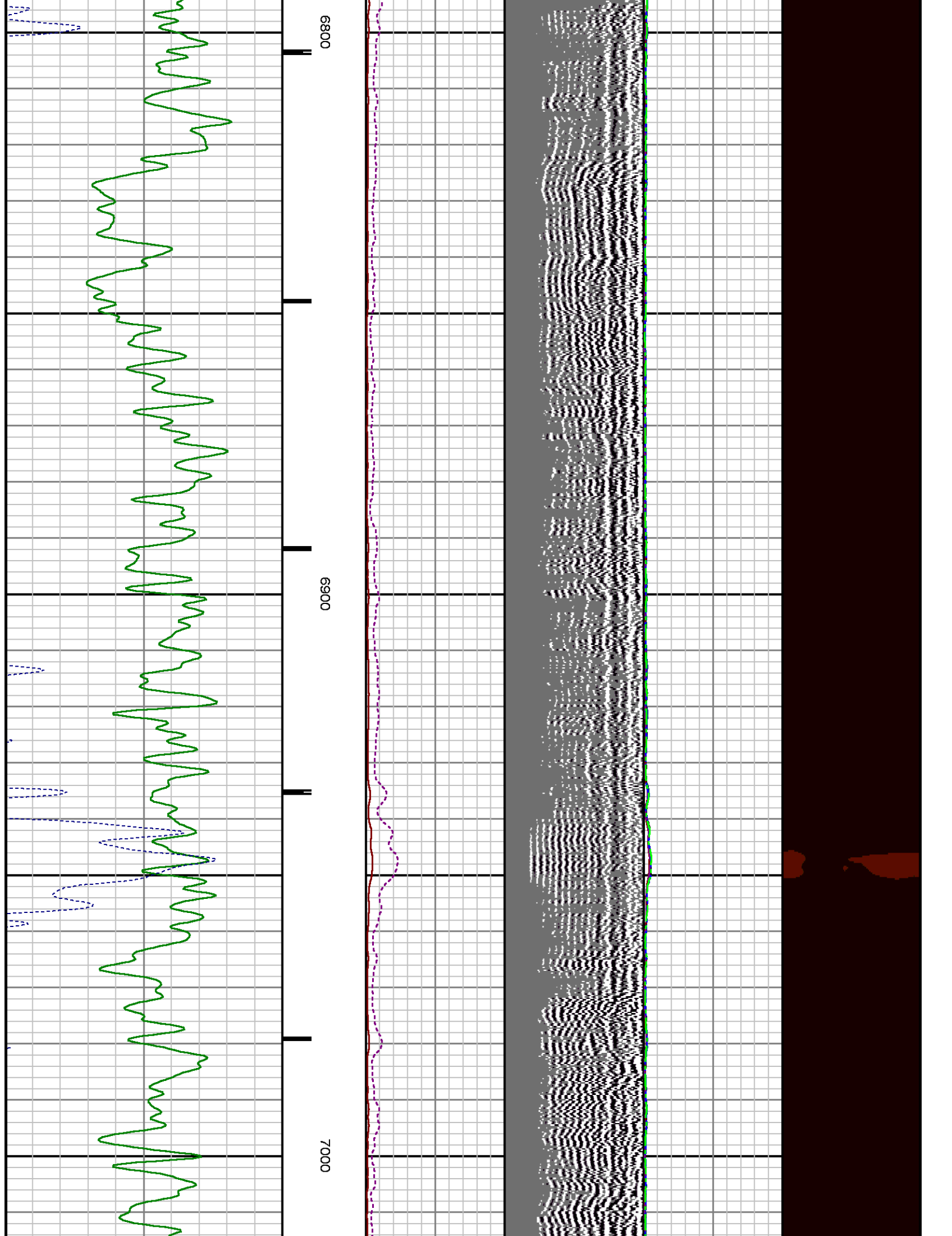


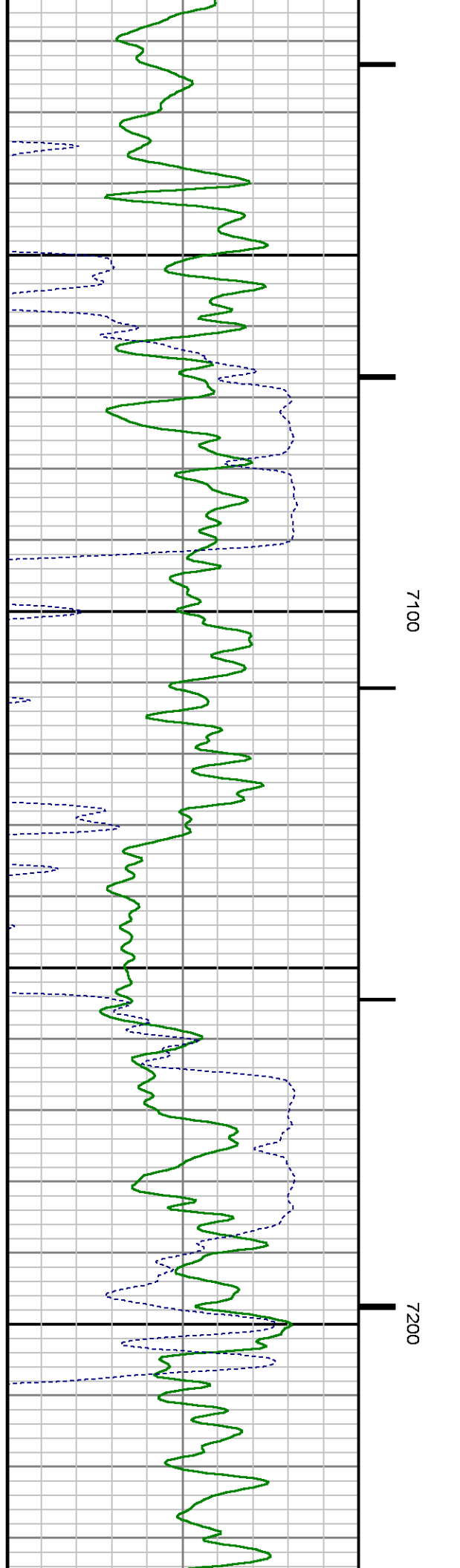
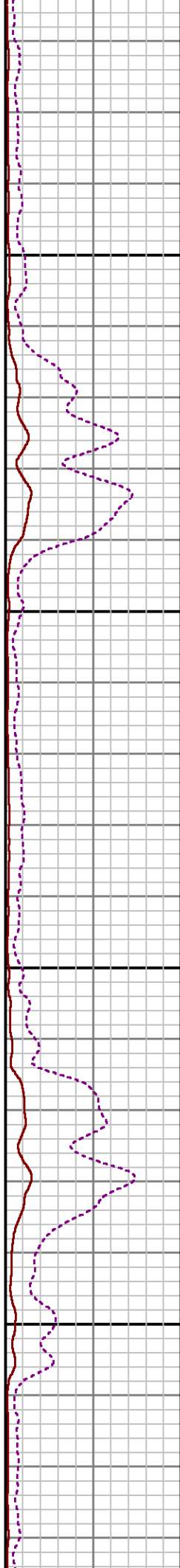
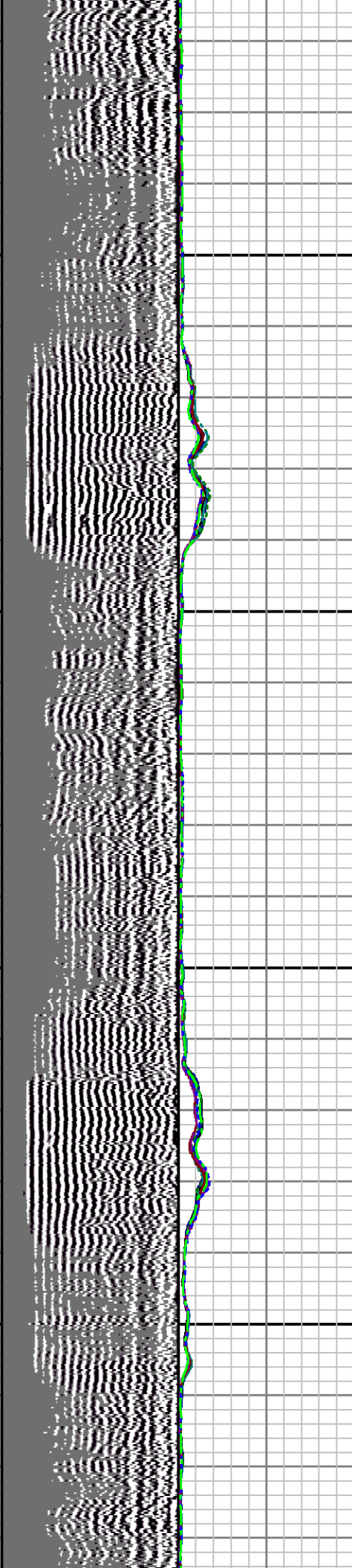


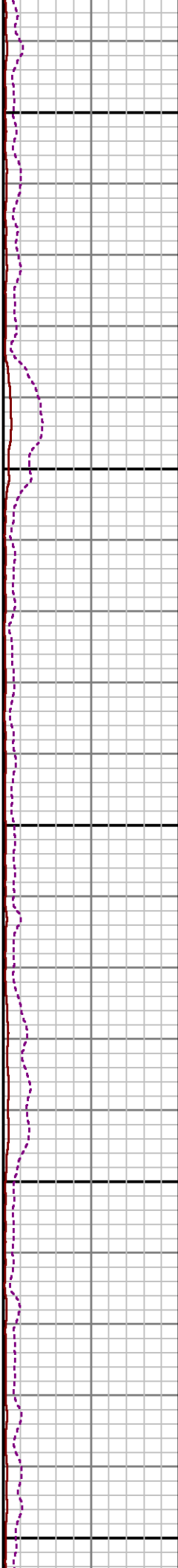
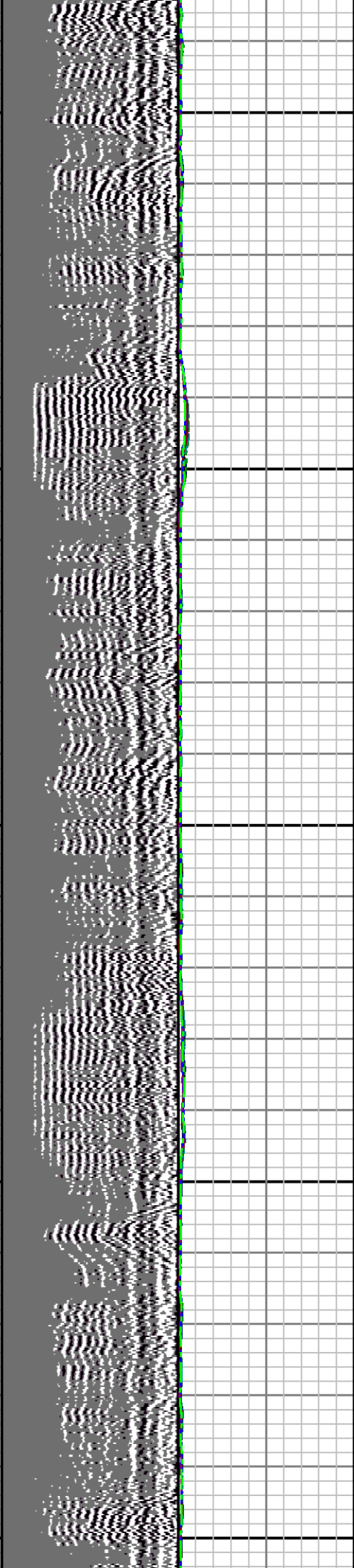






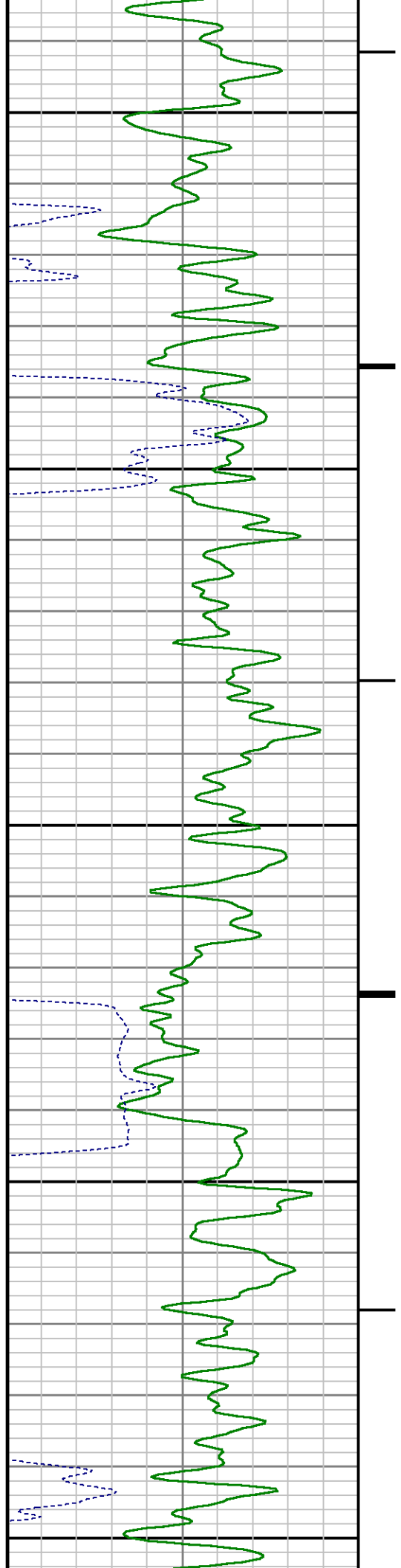


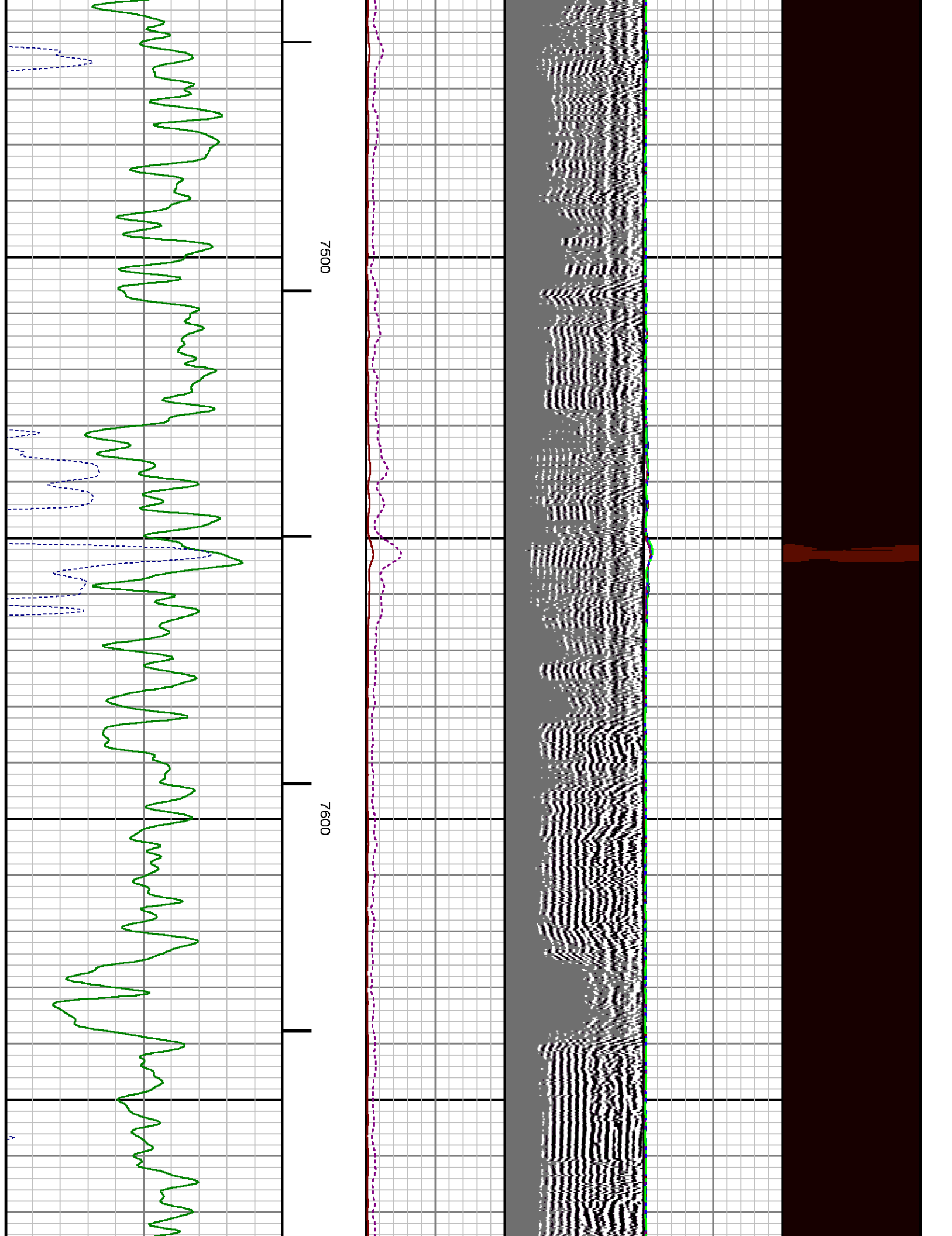


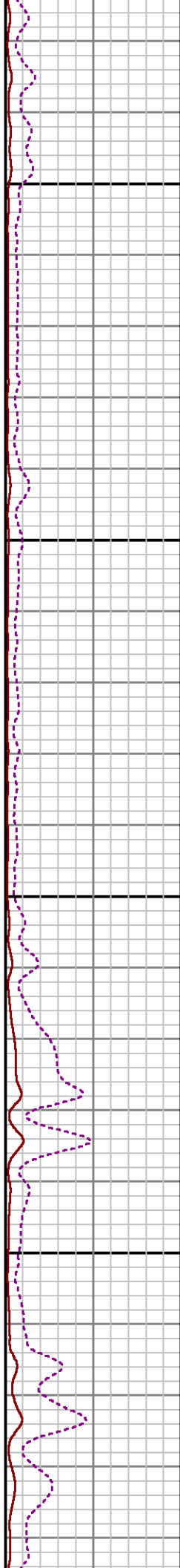
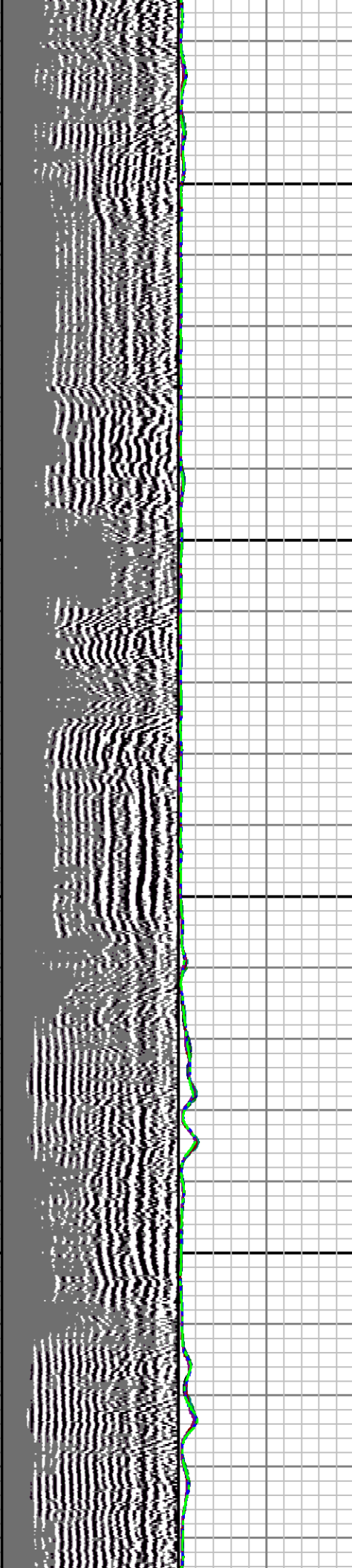


7300

7400

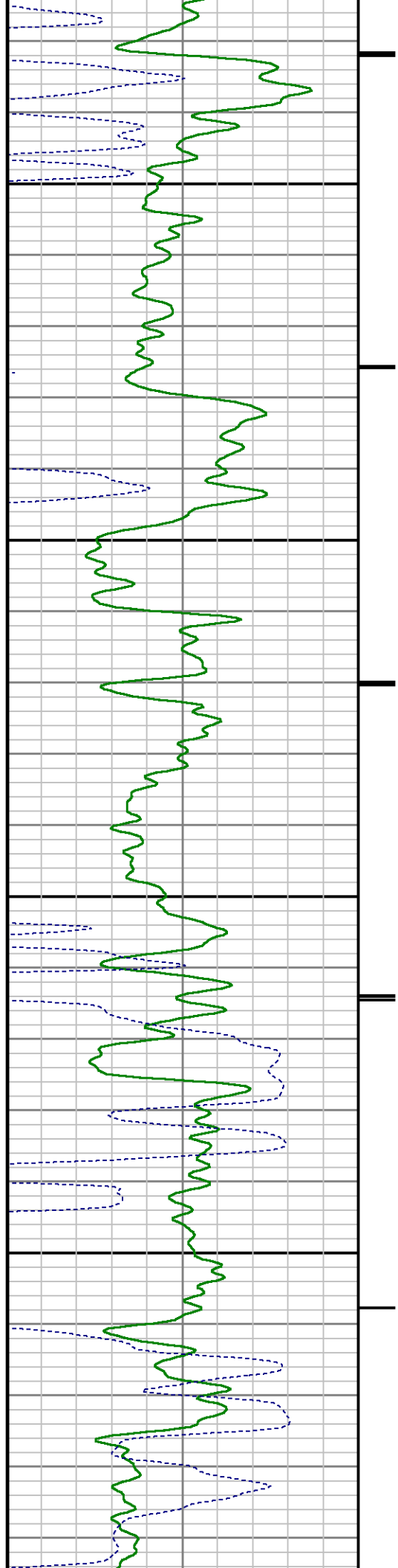




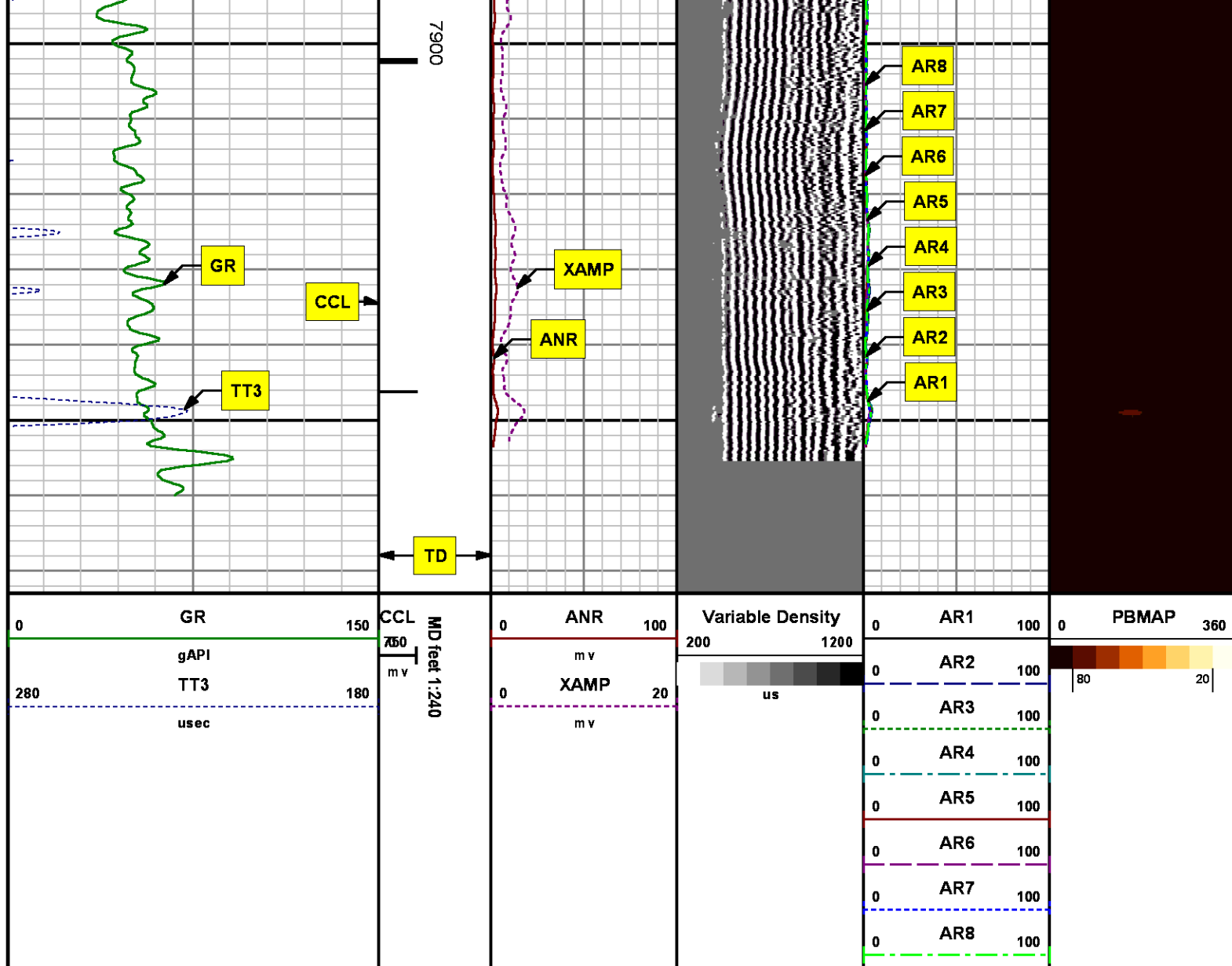


7700

7800







REPEAT SECTION  
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7640.160	7975.410
RAL	Amp Gate Start Near	195.000	usec	7640.160	7975.410
RAL	Amp Gate Start Radial	195.000	usec	7640.160	7975.410
RAL	Amp Gate Width Far	25.000	usec	7640.160	7975.410

RAL	Amp Gate Width Near	25.000	usec	7640.160	7975.410
RAL	Amp Gate Width Radial	25.000	usec	7640.160	7975.410
RAL	casing od	4.500	inches	7640.160	7975.410
RAL	casing wt	11.600	lbm/ft	7640.160	7975.410
RAL	FB Start Far	291.900	usec	7640.160	7975.410
RAL	FB Start Near	175.391	usec	7640.160	7975.410
RAL	FB Start Radial	175.391	usec	7640.160	7975.410
RAL	FB Thresh Far	10.000	mv	7640.160	7975.410
RAL	FB Thresh Near	4.000	mv	7640.160	7975.410
RAL	FB Thresh Radial	4.000	mv	7640.160	7975.410
RAL	Fluid Travel Time	200.000	usec/ft	7640.160	7973.535

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

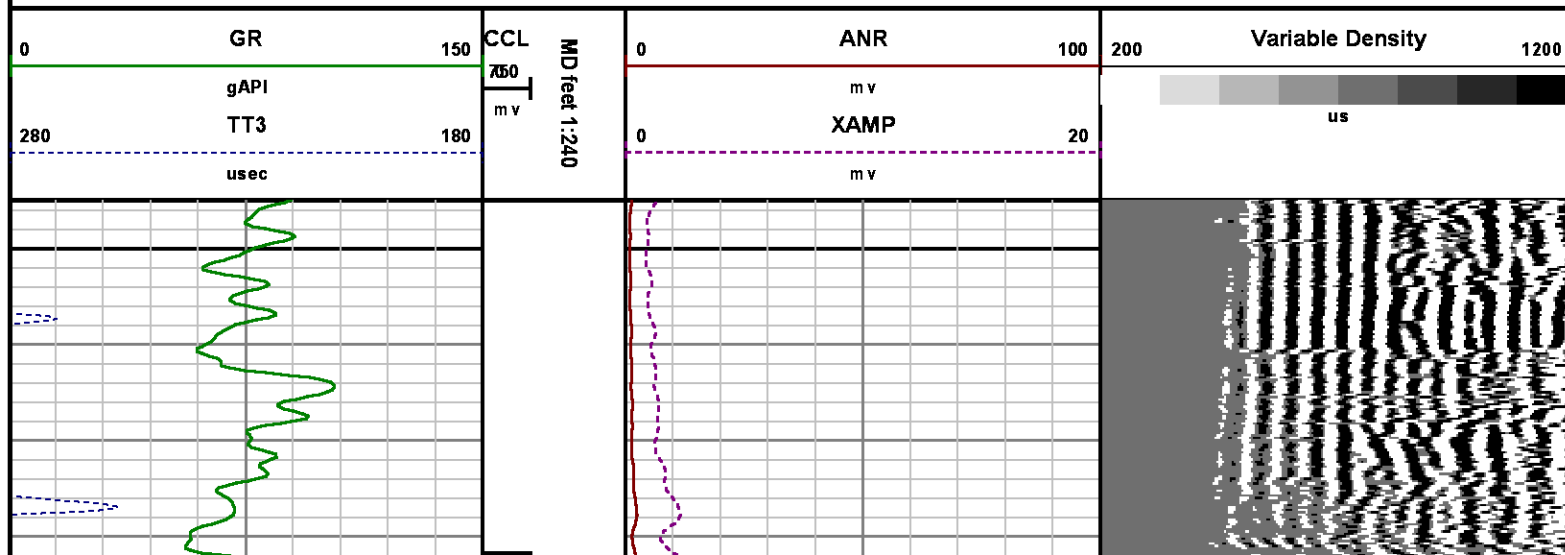
Well : WPX ENERGY PA 344-3

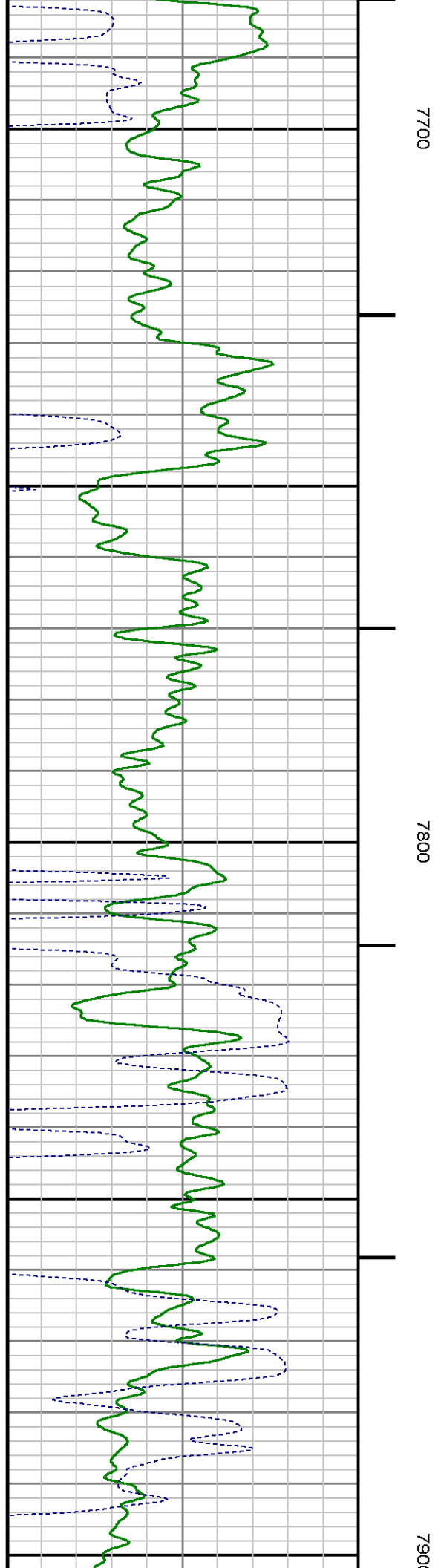
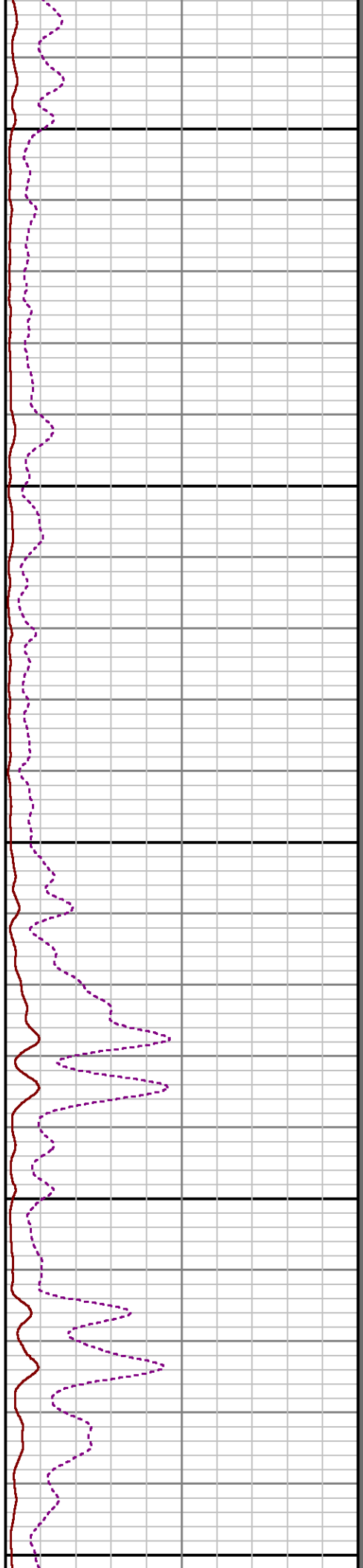
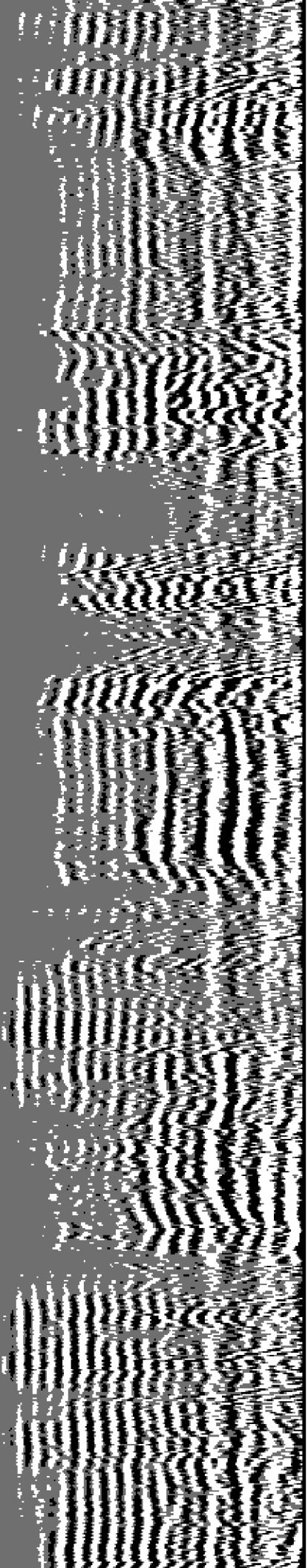
File Name : d:\well\data\wpx\wpx energy pa 344-3\344cbl\repeat.xtf

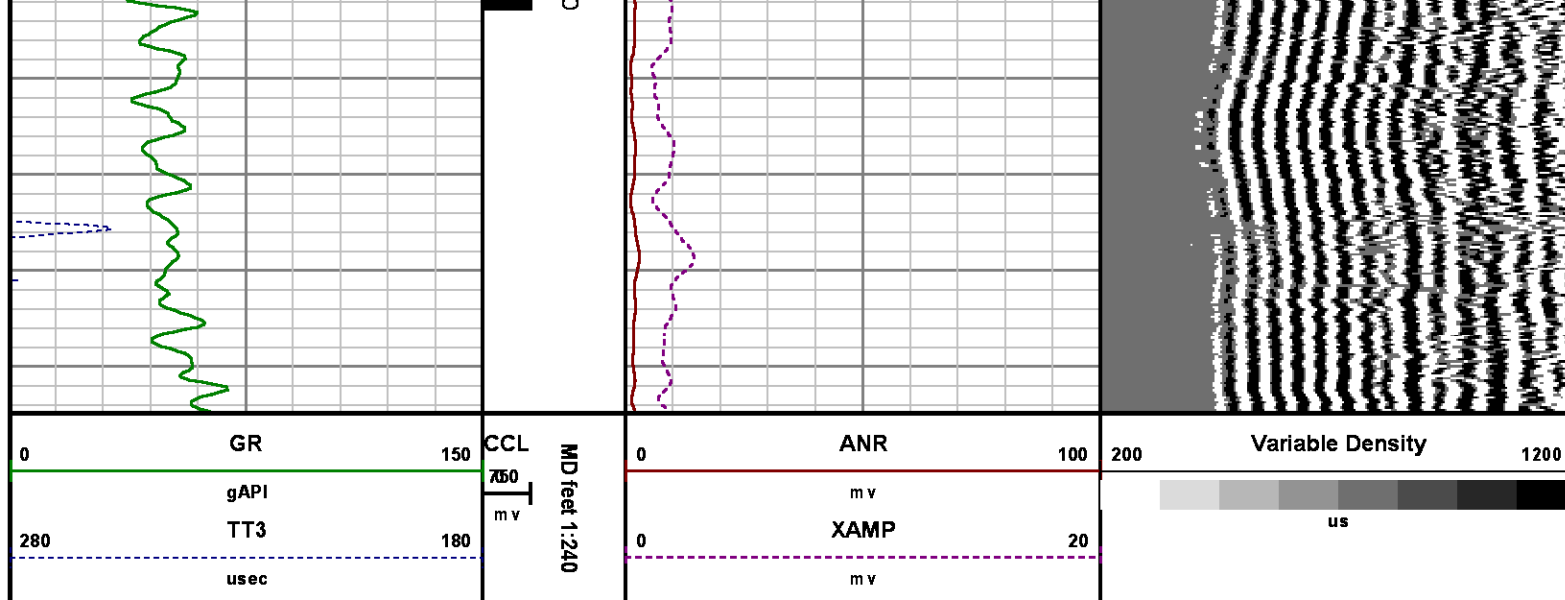
Mode : PlotMgr 5.4.504

Interval : 7645.00 - 7945.00 feet UP

Created : 6/25/2014 8:03:09 AM







## CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP49623\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 23 07:56:36 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 23

Tool Delay [usec] -53.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	0.117	100.00	0.32
3 Ft. Receiver	218	216	30	166	16	1.132	100.00	0.31
5 Ft. Receiver	326	325	30	257	25	0.564	150.00	0.36
Radial #1	218	216	30	166	18	0.704	100.00	0.32
Radial #2	217	216	30	166	18	0.702	100.00	0.31
Radial #3	216	216	30	166	18	0.703	100.00	0.31
Radial #4	216	216	30	166	18	1.036	100.00	0.31
Radial #5	217	216	30	166	18	1.004	100.00	0.31
Radial #6	218	216	30	166	18	0.879	100.00	0.32
Radial #7	218	216	30	166	18	0.461	100.00	0.32
Radial #8	219	216	30	166	18	0.900	100.00	0.32

# RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49625 fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jun 25 07:34:31 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 25

Tool Delay [usec]  Casing OD  in Casing Wt  lbm/ft Casing ID  in

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="0.087"/>	<input type="text" value="0.000"/>	<input type="text" value="1.00"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.478"/>			
5 Ft. Receiver	<input type="text" value="305"/>	<input type="text" value="25"/>	<input type="text" value="3.246"/>			
Radial #1	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.521"/>			
Radial #2	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.602"/>			
Radial #3	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.108"/>			
Radial #4	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.153"/>			
Radial #5	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.346"/>			
Radial #6	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.407"/>			
Radial #7	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.747"/>			
Radial #8	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.735"/>			

# GAMMA RAY

Calibration File: C:\case\calver\GRV456J1.cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 10 11:37:19 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="93.20"/>	<input type="text" value="369.51"/>	<input type="text" value="0.670"/>	<input type="text" value="62.40"/>	<input type="text" value="247.40"/>	<input type="text" value="185.00"/>

Verification File: C:\case\calver\GRV456J1.VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jun 10 11:38:30 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="101.16"/>	<input type="text" value="371.24"/>	<input type="text" value="0.670"/>	<input type="text" value="67.73"/>	<input type="text" value="248.56"/>	<input type="text" value="180.83"/>

# TOOL DIAGRAM



**OTA SHORT CABLE HEAD****PROBE 2 3/4 DUAL RECEIVER RADII**

Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

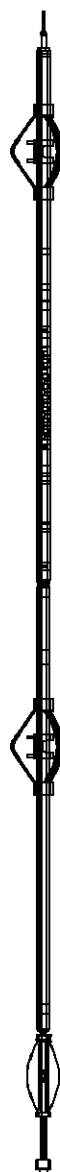
**Probe GR/CCL/NEU**

Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL

**CENTRALIZER**

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

**Total Length: 24.23'**  
**Total Weight: Not Available**  
**Max Diameter: 0' 3.12"**



	24.23'
XMIT	18.05'
NEAR RCVR	14.97'
FAR RCVR	13.05'
CCL	11.34'
GR	9.49'
NEU	4.09'
	0.00'

**Baker Atlas****CASE****Company**

WPX ENERGY

**Well**

WPX ENERGY PA 344-3

**Field**

PARACHUTE

**County**

GARFIELD

**State**

CO

**Location**

SHL: 2043' FSL &amp; 1540' FWL (2 7S 95W)

BHL: 917' FSL &amp; 649' FEL (3 7S 95W)

**Elevations**

KB 5846 ft

DF

GL 5821 ft

**File No:**

CH087667

**API No:**

05045221400000

3 7S 95W

GV 86-2 PAD

AZTEC 1000

SEC 3

TWP 7S

RGE 95W