



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: **Company** **WPX ENERGY**

CH084680 **Well** **BOSELY SG 414-22**

API No: **Field** **GRAND VALLEY**

05045221260000 **County** **GARFIELD** **State** **COLORADO**

## Location

22 75 96W

SHL: 609' FSL & 1949' FWL

SG 24-22 PAD

BHL: 208' FSL & 299' FWL (SWSW)

H&P 318

SEC 22

TWP 7S

RGE 96W

## Other Services

RPM

Permanent Datum

Log Measured From

Drill Measured From

GL

Elevation

5248 ft

KB

24 ft

Above P. D.

KELLY BUSHING

Elevations

KB 5872 ft

DF

GL 5248 ft

Date 07/APR/14

Run ONE

Service Order US628379

Depth Driller 5580 ft

Depth Logger 5557 ft

Bottom Logged Interval 5547 ft

Top Logged Interval 24 ft

Time Started 1500

Time Finished 1700

Operator Rig Time 2 HRS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 55 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 187 degF

Reference Log NONE

Reference Log Date NA

Equipment No. 4271

Location

GRAND JUNCTION

Recorded By FLOYD RENEAU

Witnessed By JEFF BRADY

- 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	24 ft	1172 ft
8.75 in	1172 ft	5580 ft

## Casing Record

Size	Weight	Grade	From	To
9.625 in			24 ft	1172 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	5580 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 = 187°F

SJ = 3029'-3053'

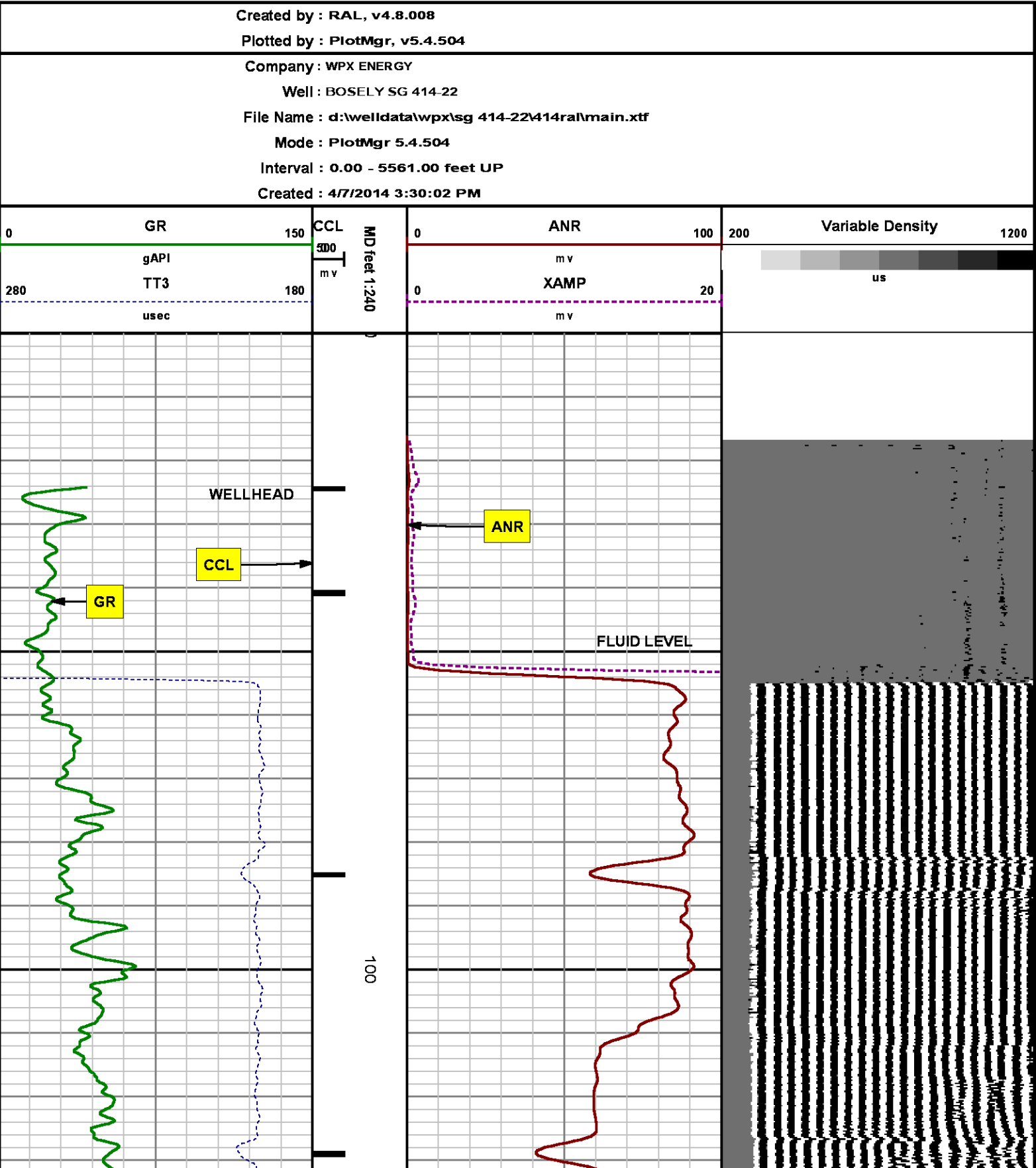
Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	2459XA	10417456	CENT

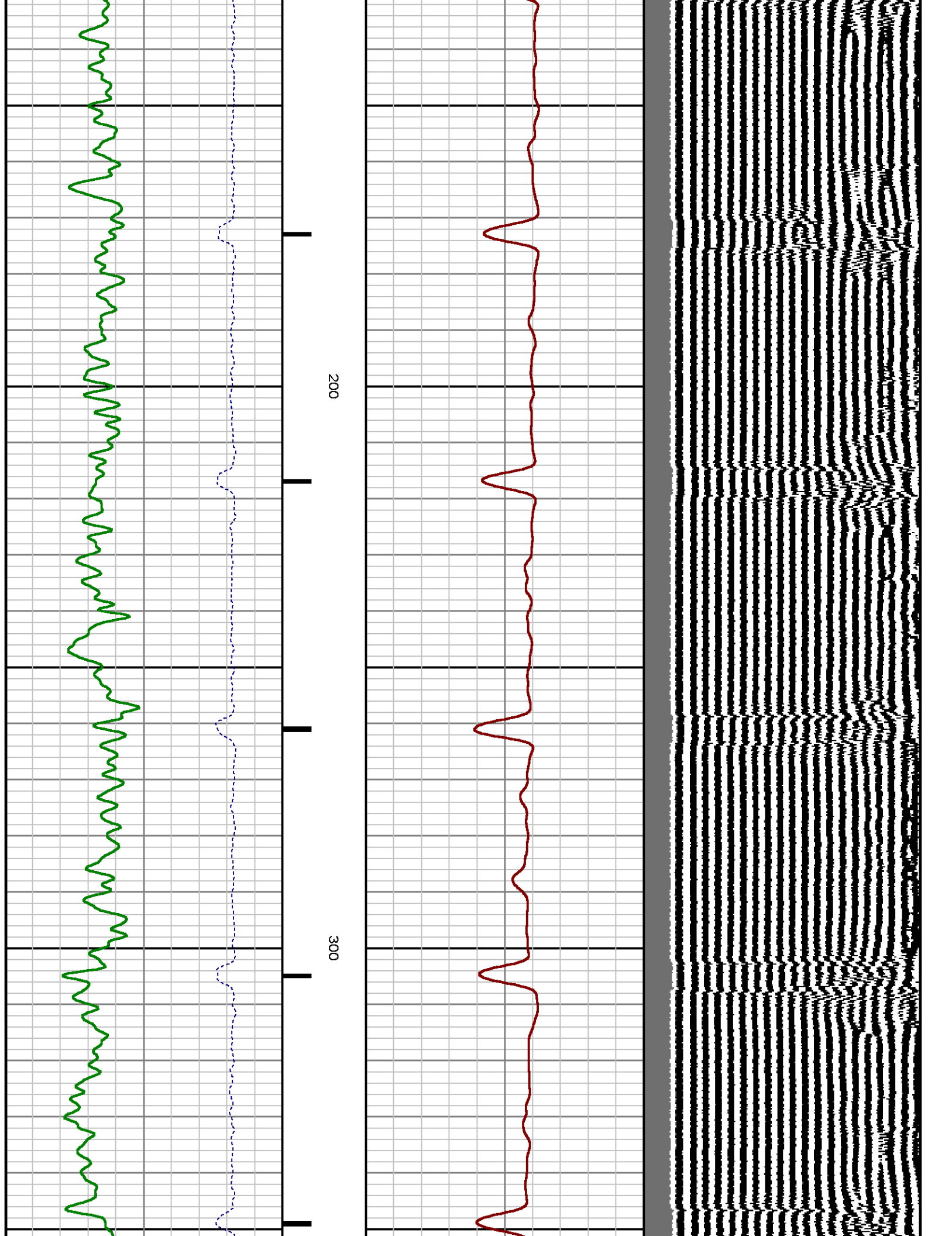
PRIMARY PRESENTATION  
0 PSI

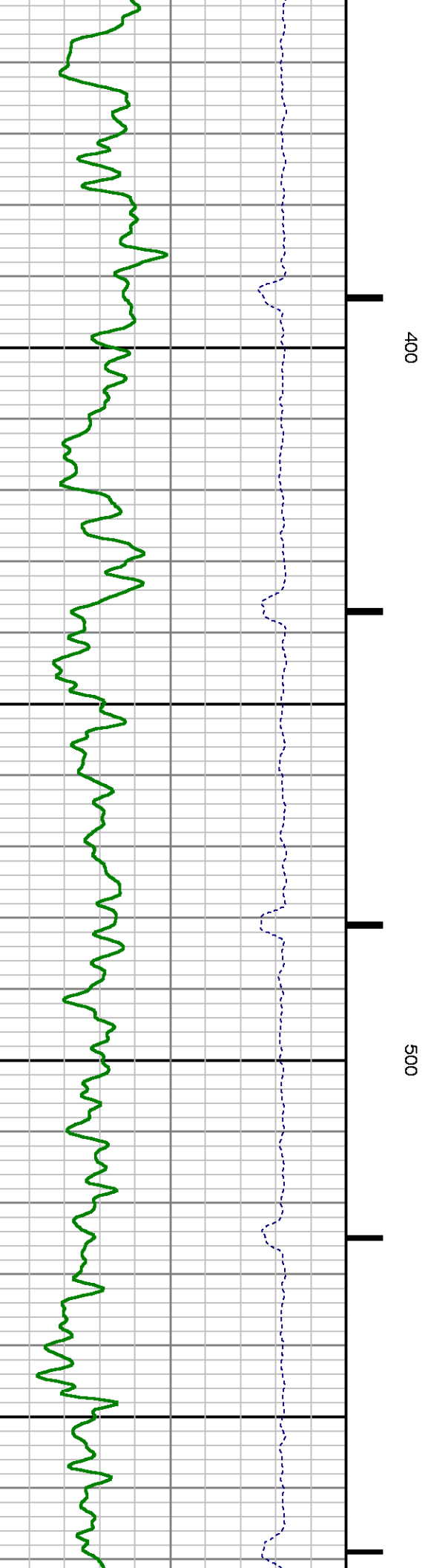
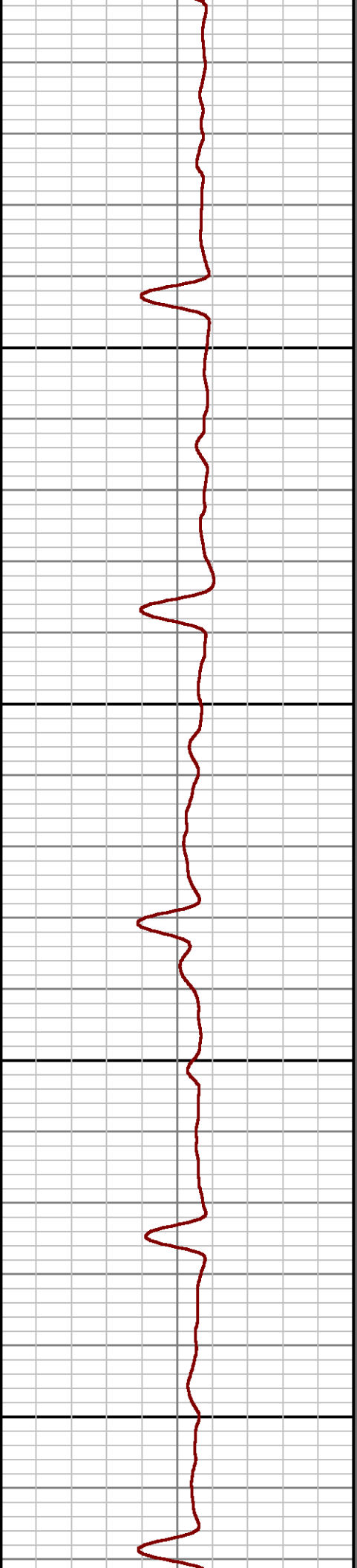
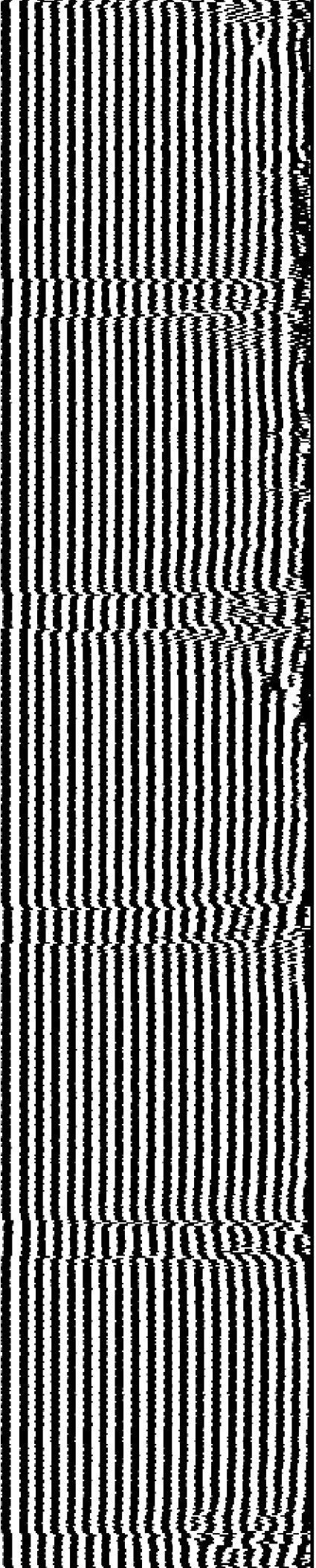
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	32.438	5561.000
RAL	Amp Gate Start Near	195.000	usec	32.438	5561.000
RAL	Amp Gate Start Radial	195.000	usec	32.438	5561.000
RAL	Amp Gate Width Far	25.000	usec	32.438	5561.000
RAL	Amp Gate Width Near	25.000	usec	32.438	5561.000
RAL	Amp Gate Width Radial	25.000	usec	32.438	5561.000
RAL	casing od	4.500	inches	32.438	5561.000
RAL	casing wt	11.600	lbm/ft	32.438	5561.000
RAL	FB Start Far	291.900	usec	32.438	5561.000
RAL	FB Start Near	180.000	usec	32.438	5561.000
RAL	FB Start Radial	180.000	usec	32.438	5561.000
RAL	FB Thresh Far	10.000	mv	32.438	5561.000
RAL	FB Thresh Near	4.000	mv	32.438	5561.000
RAL	FB Thresh Radial	4.000	mv	32.438	5561.000
RAL	Fluid Travel Time	200.000	usec/ft	32.438	5560.906

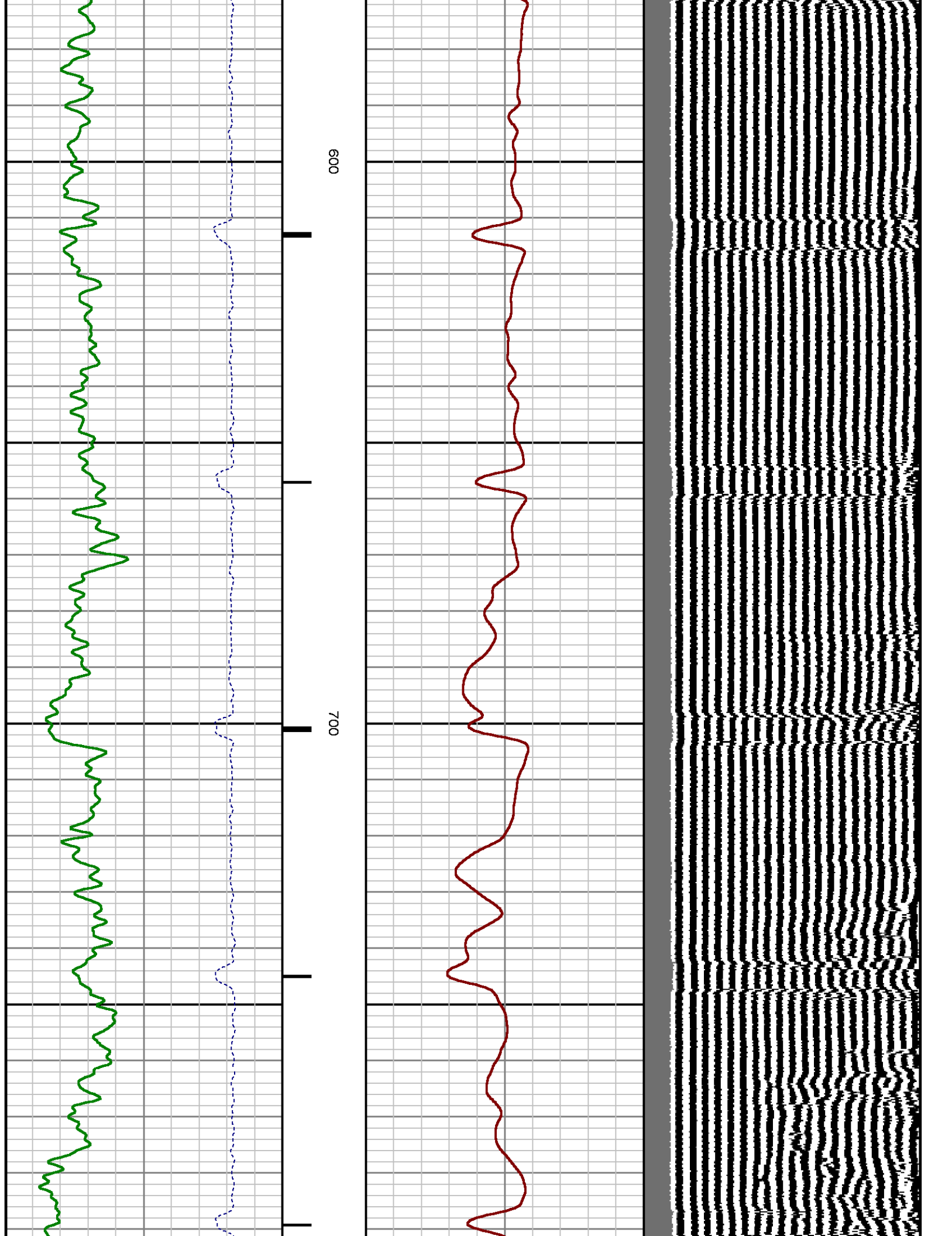
DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

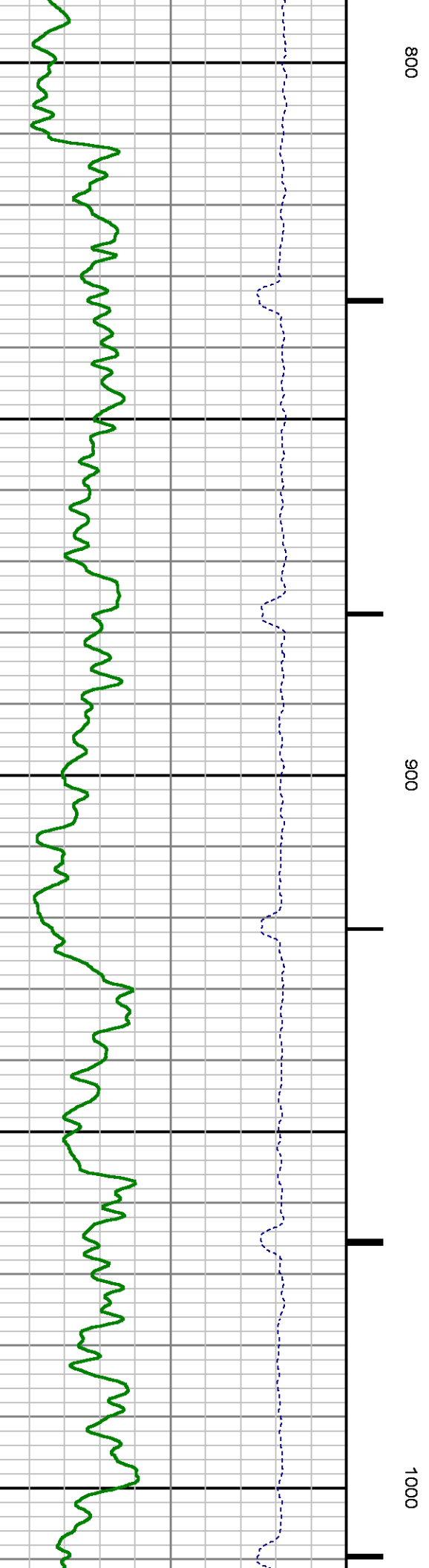
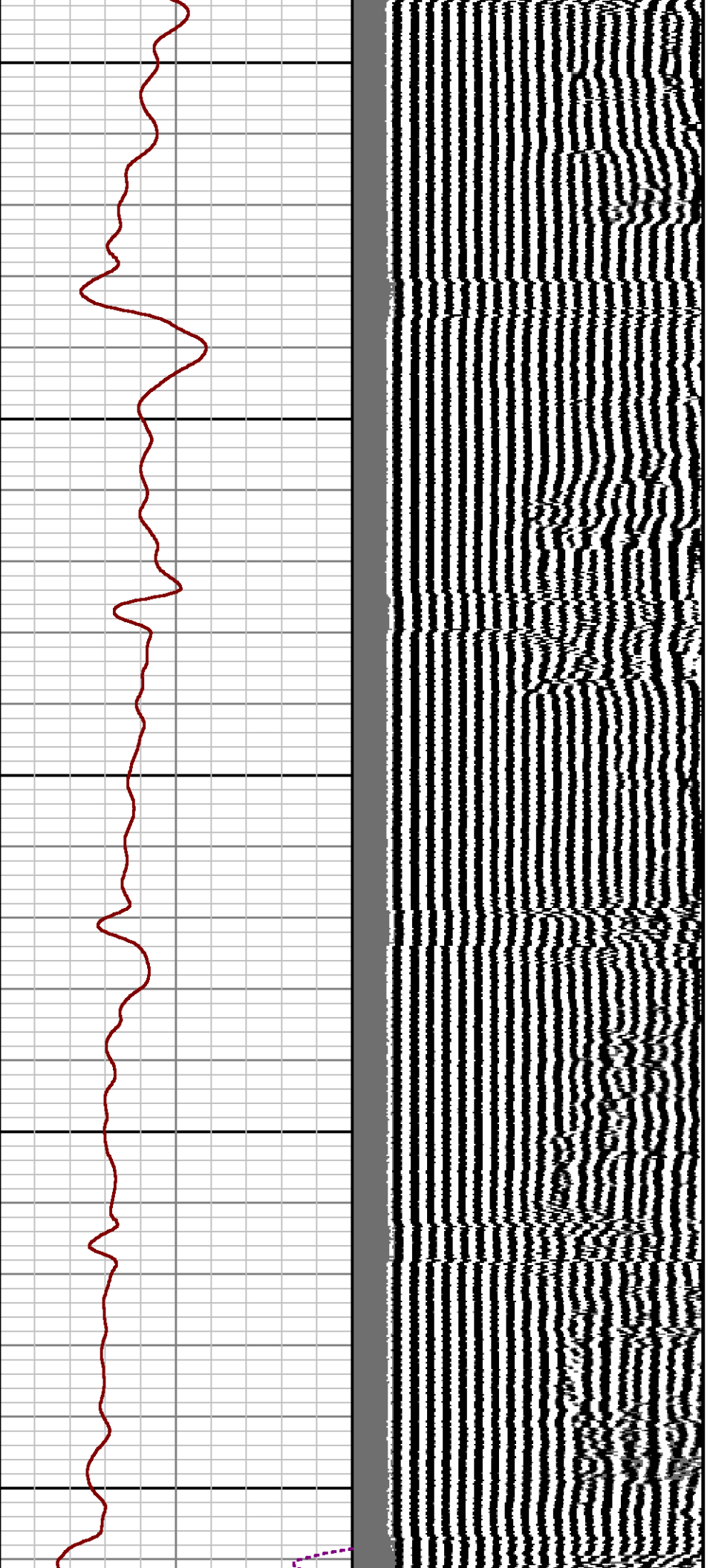
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

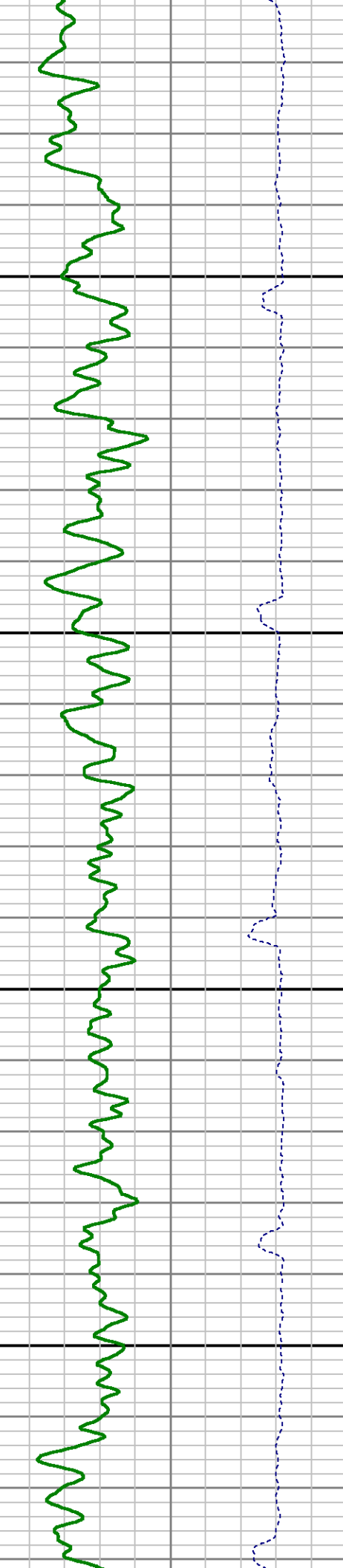
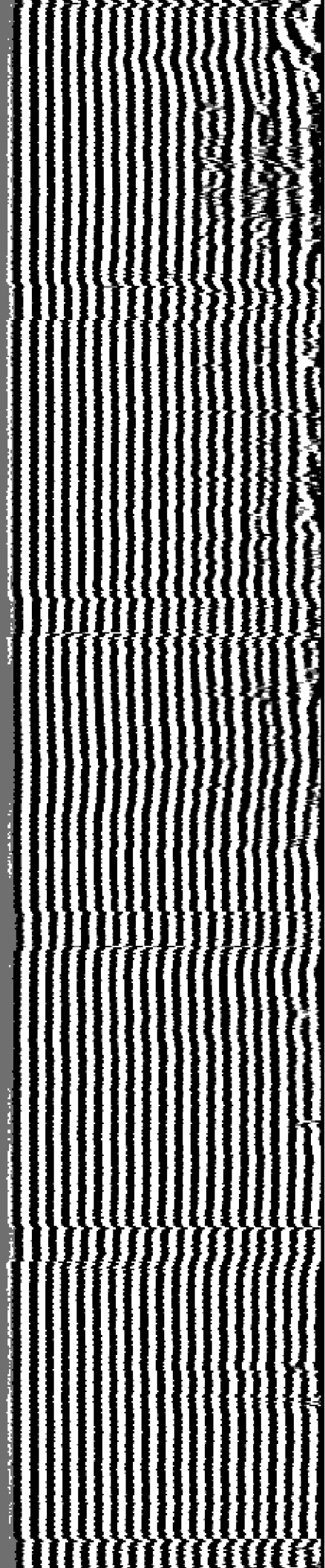




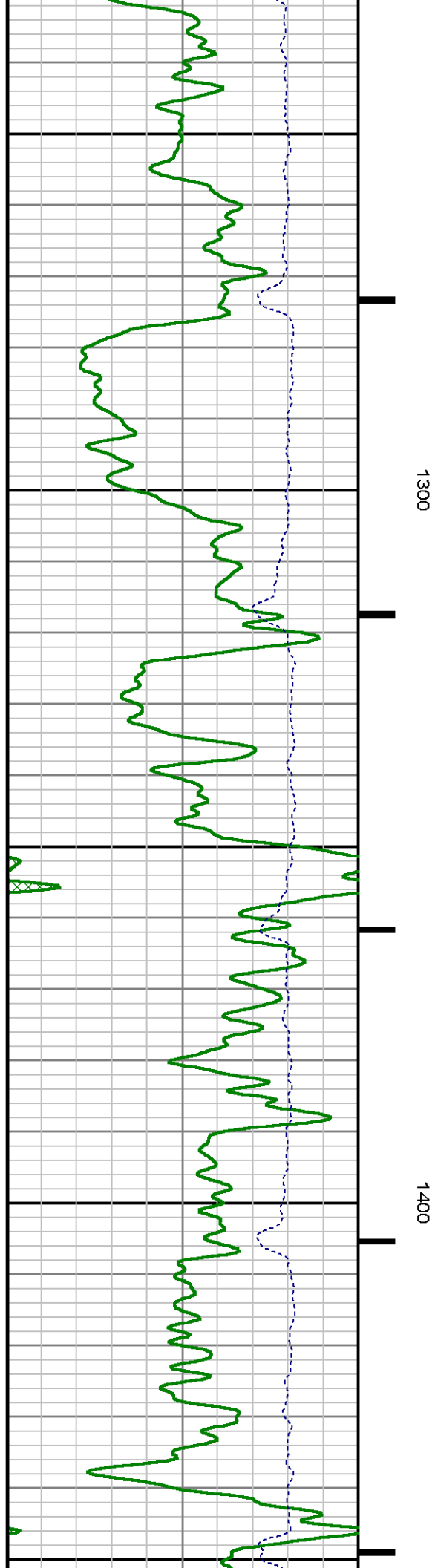
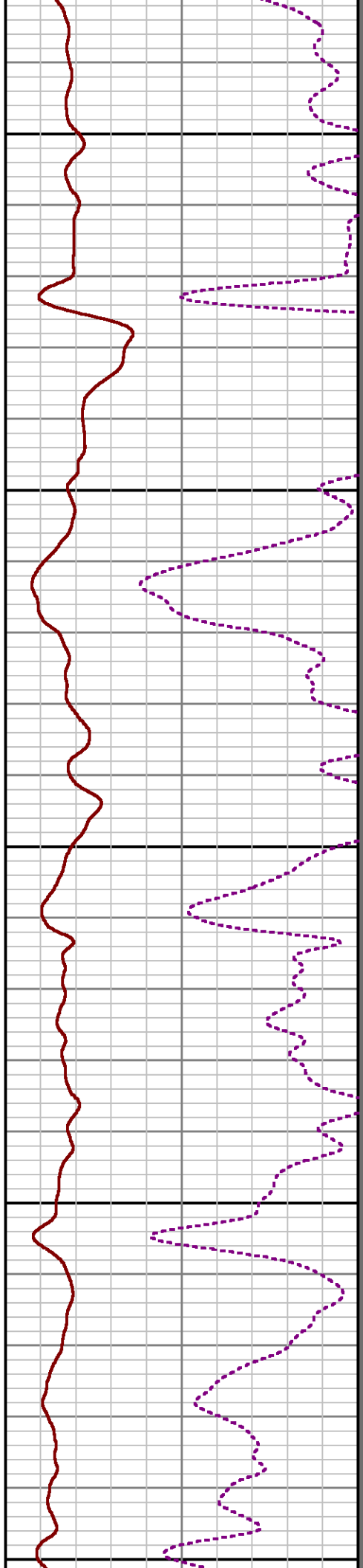
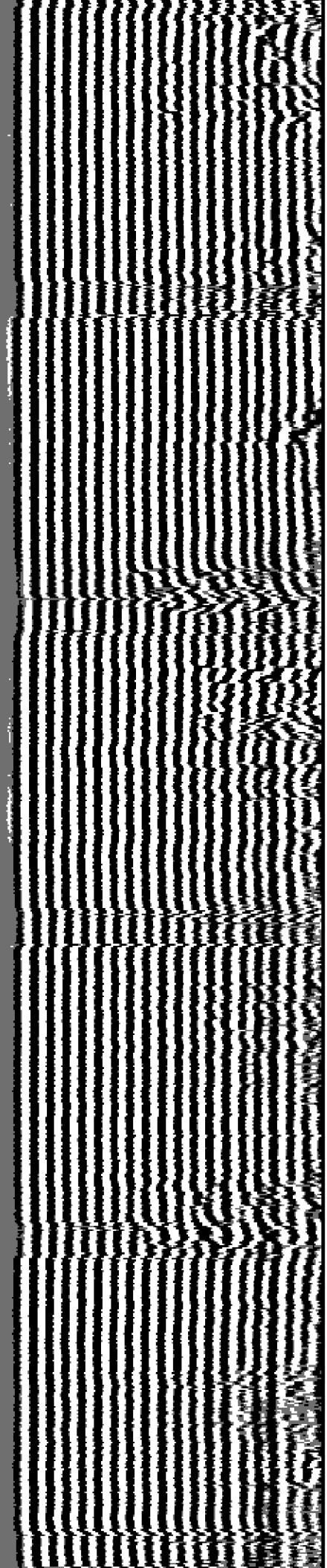


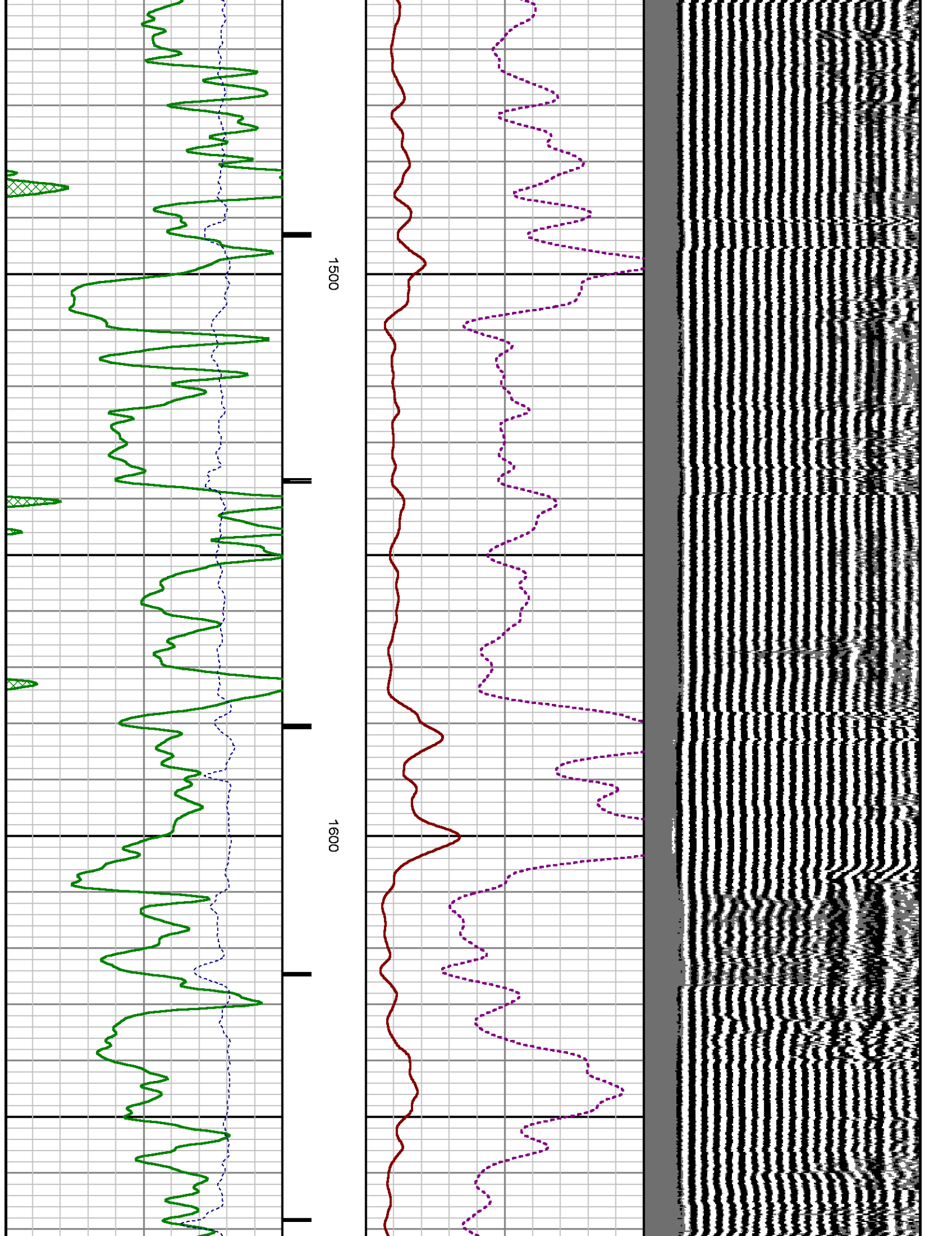


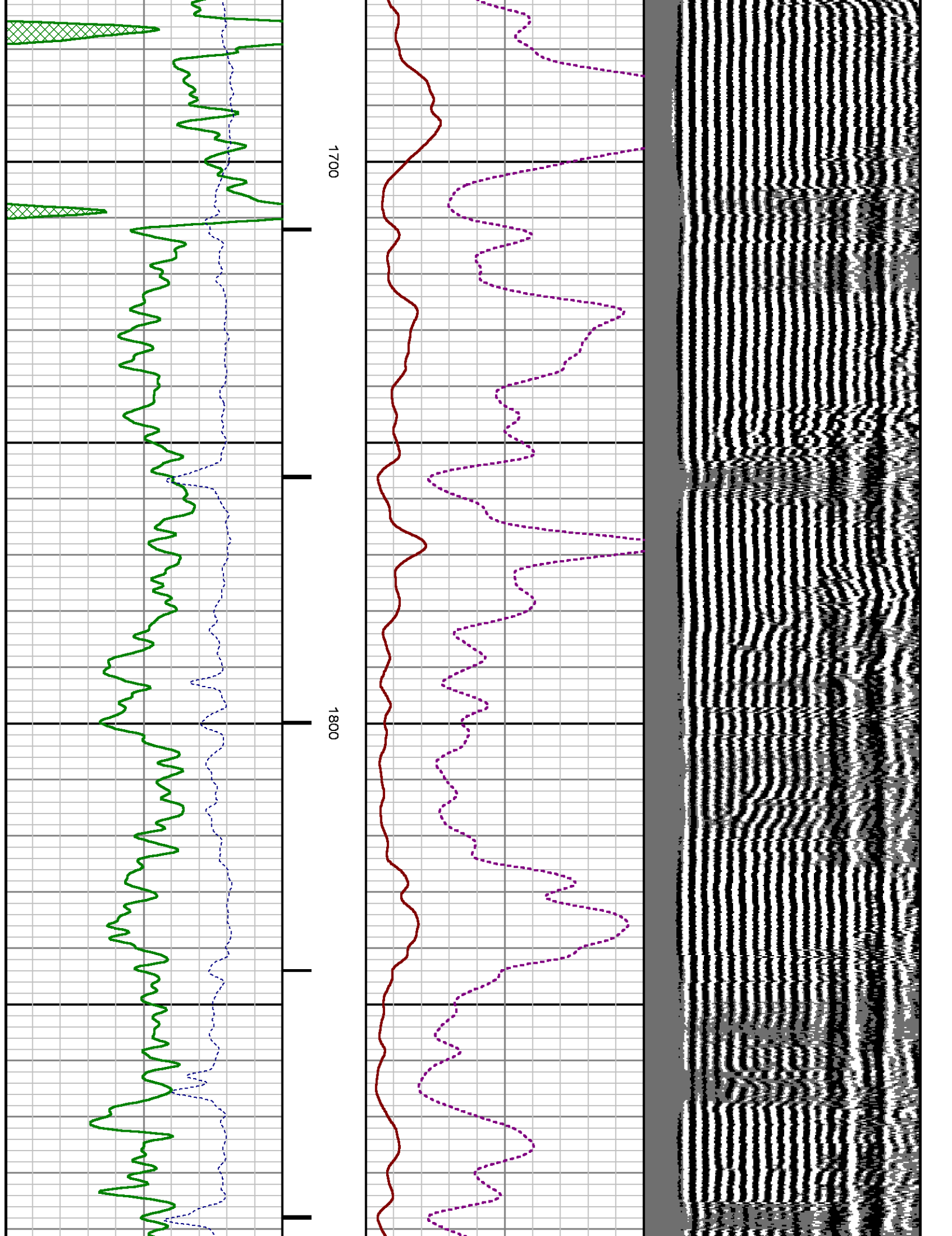


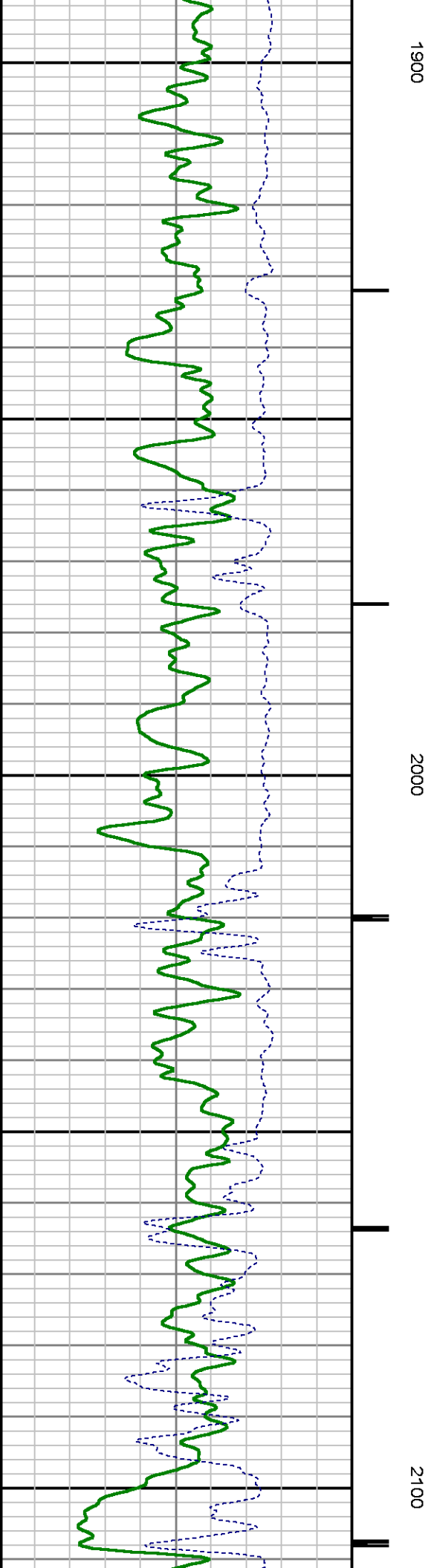
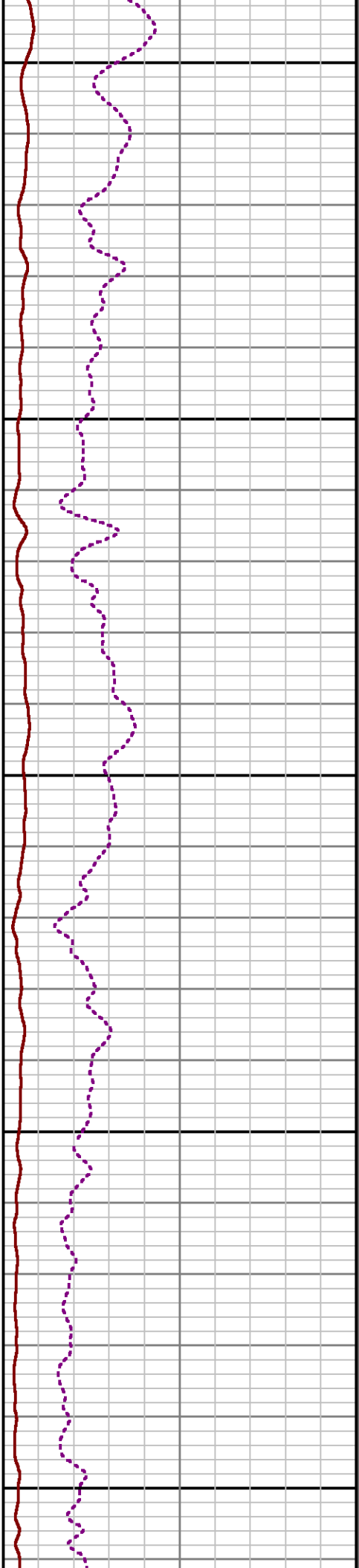
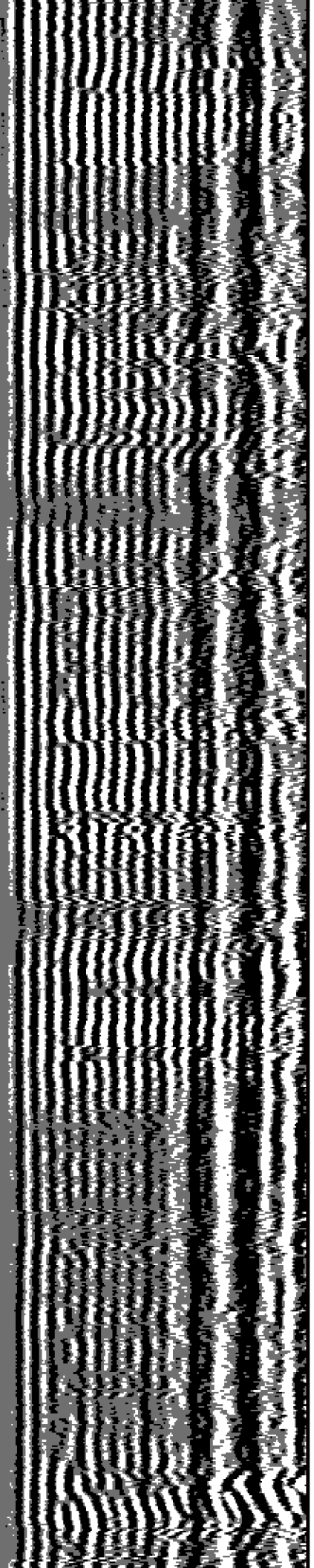


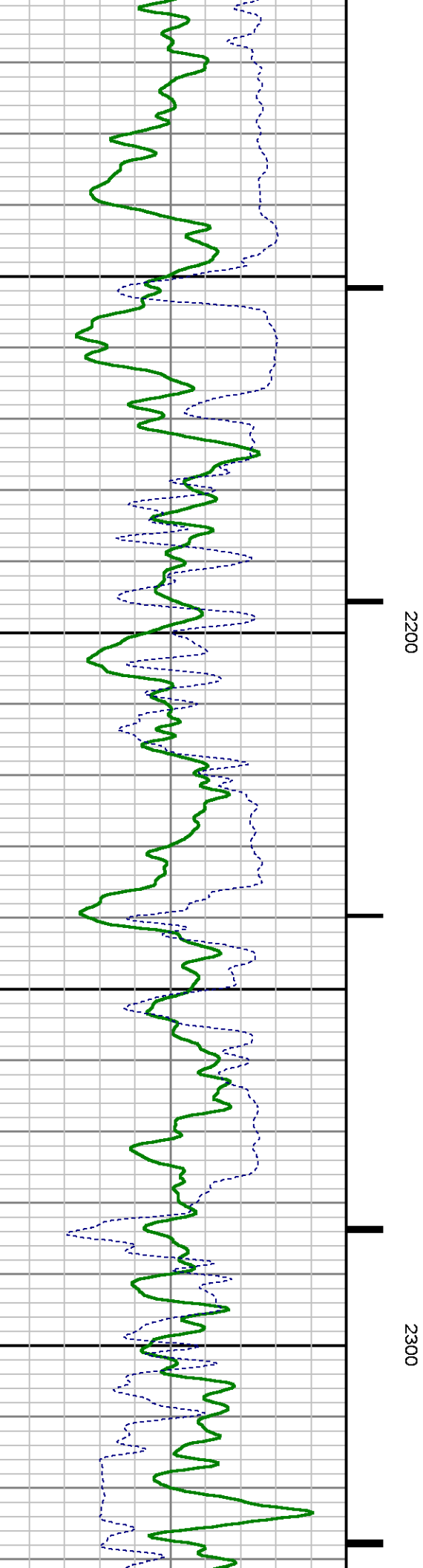
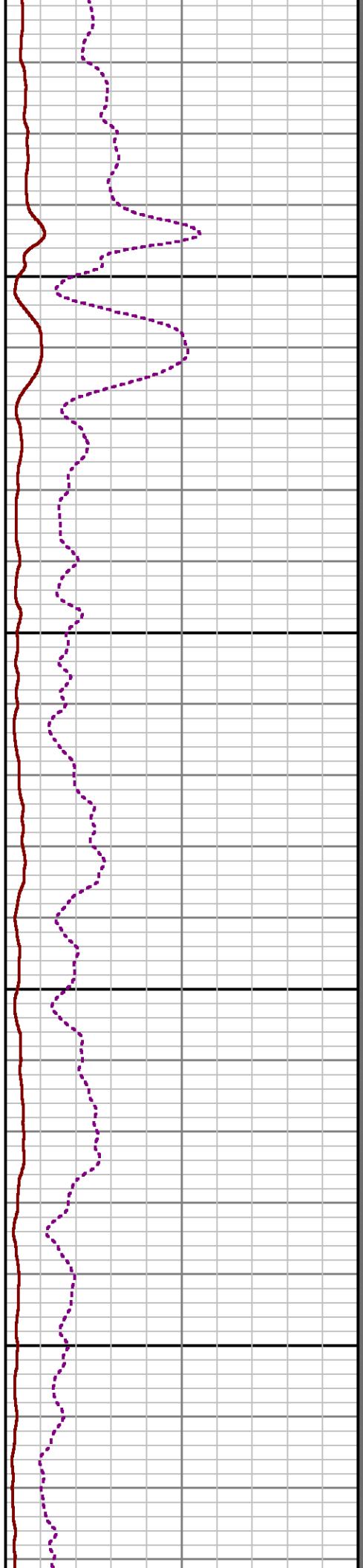
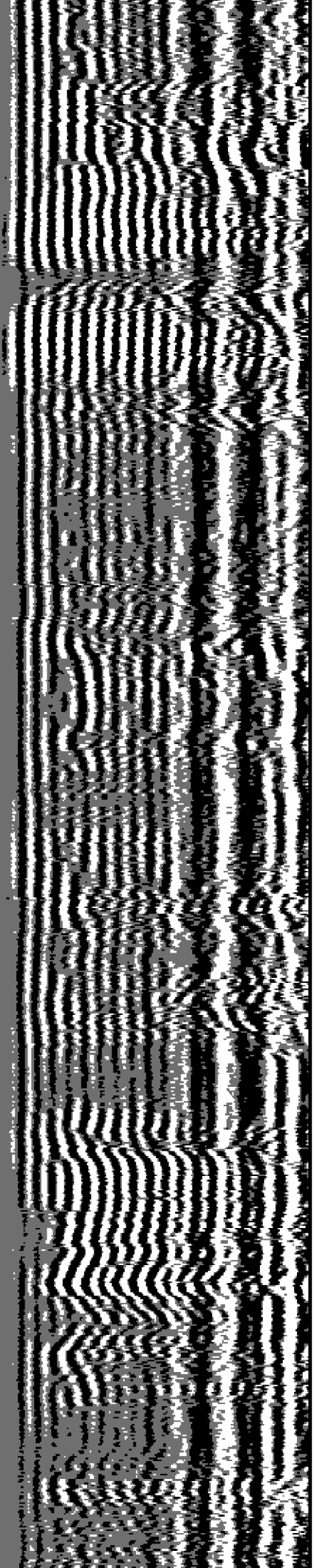




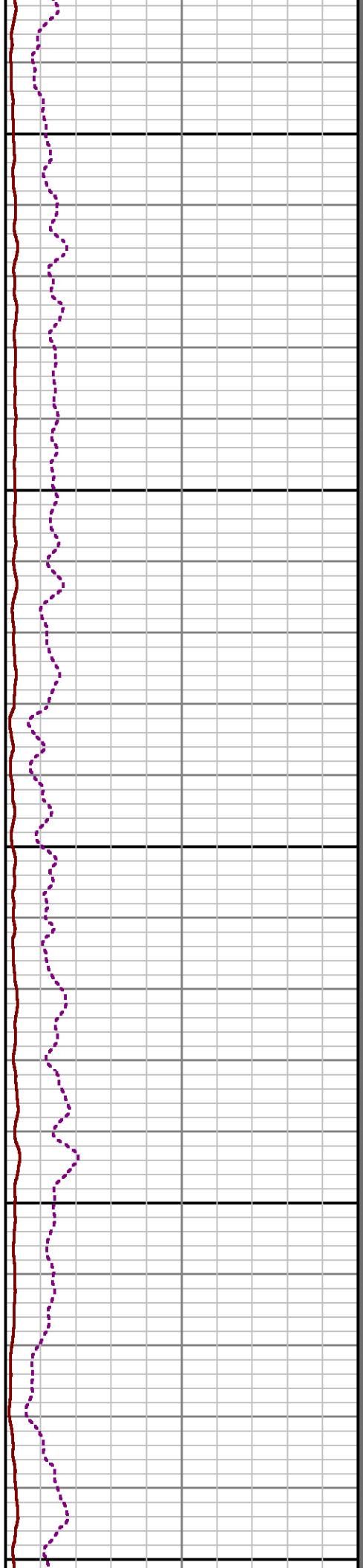
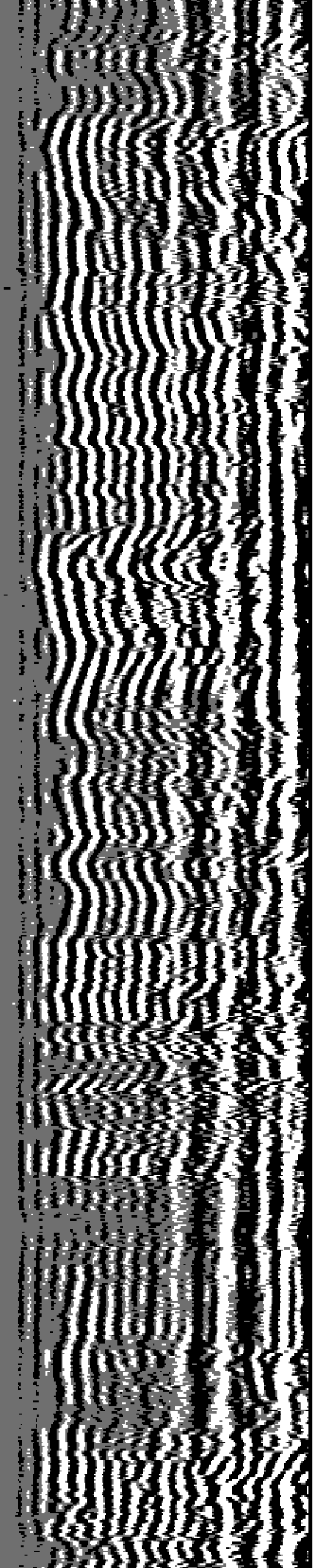






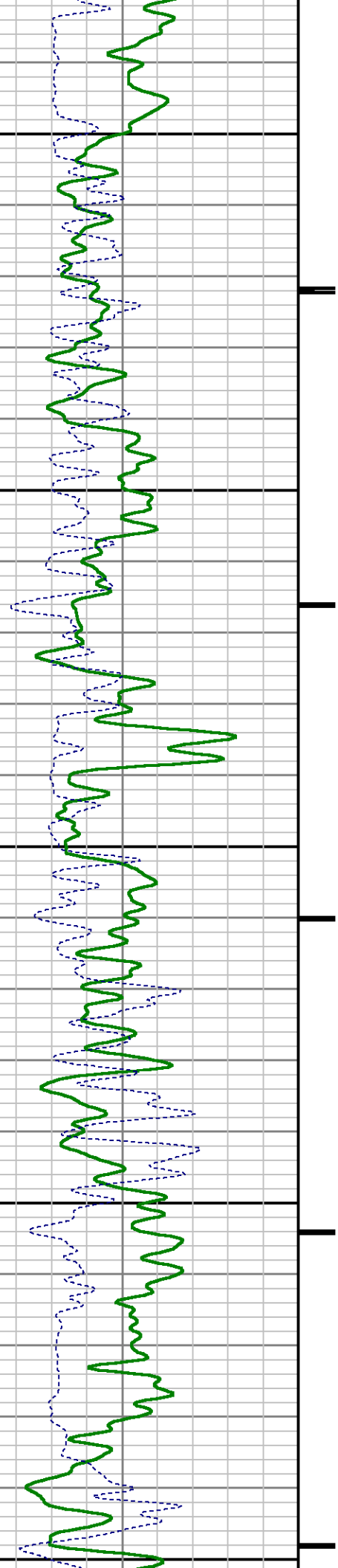


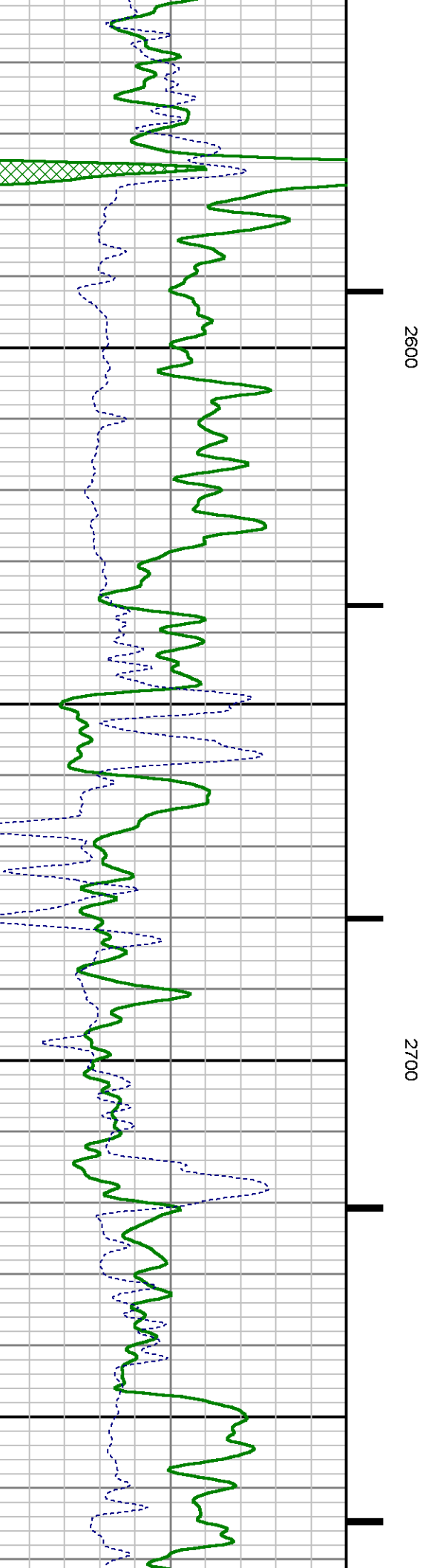
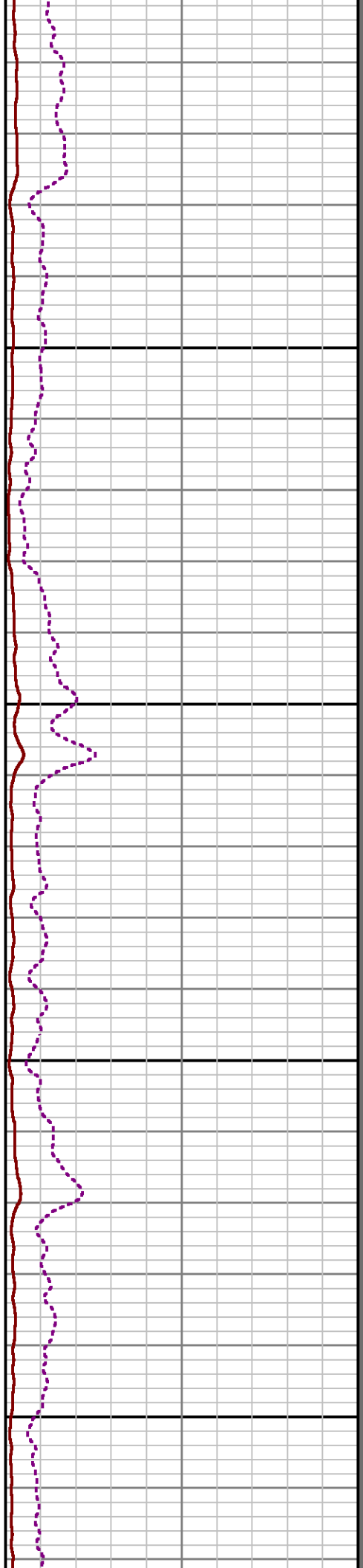
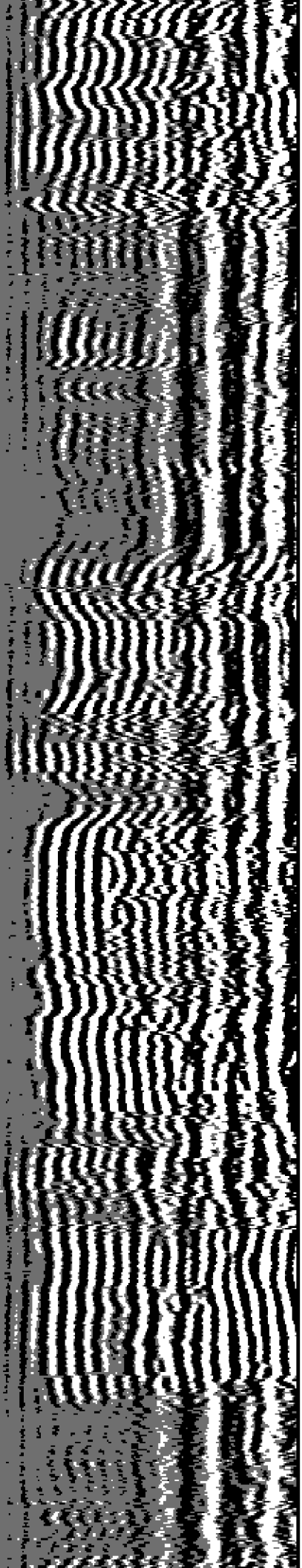


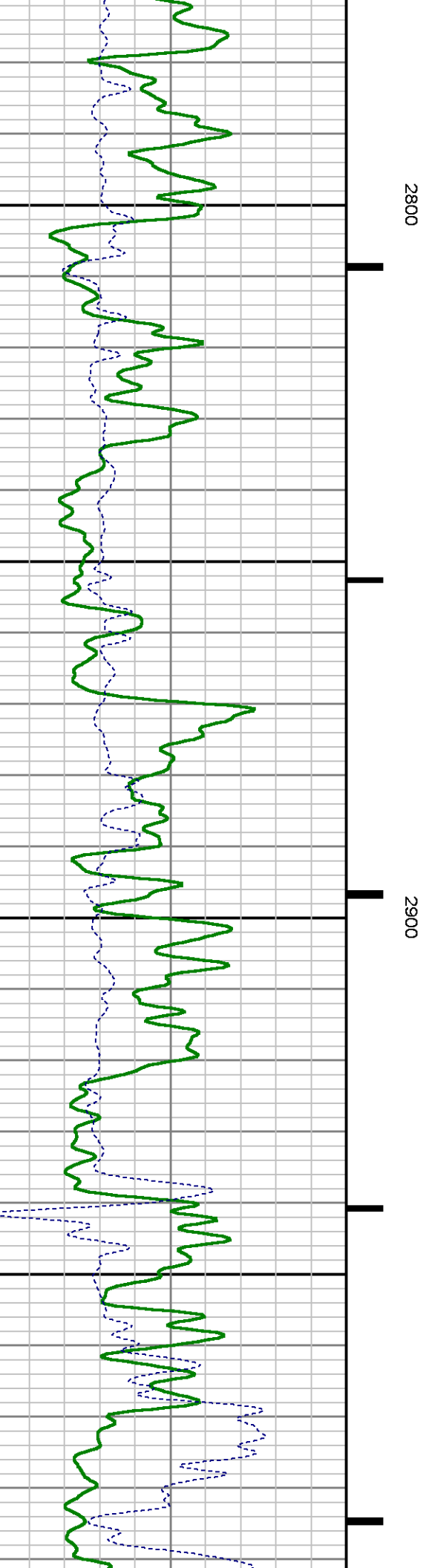
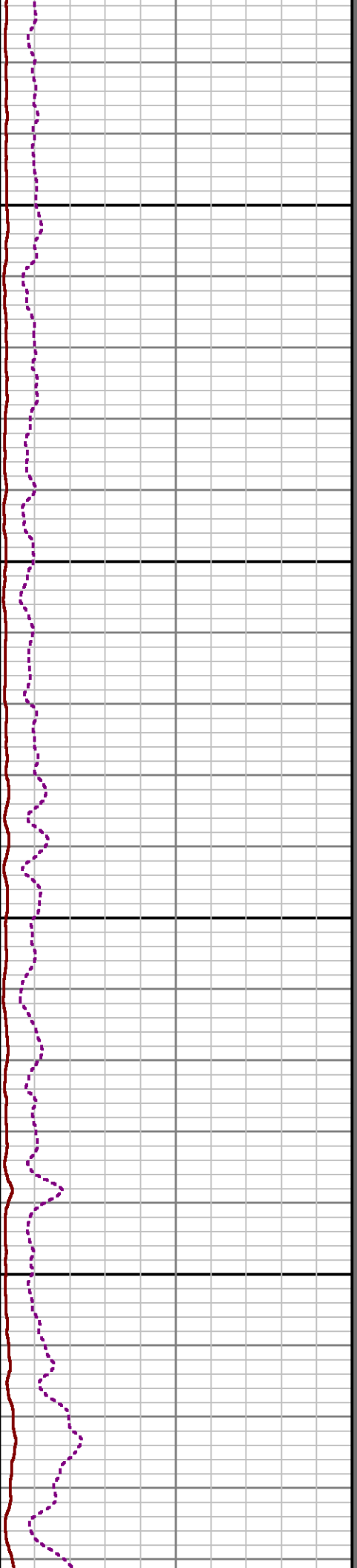
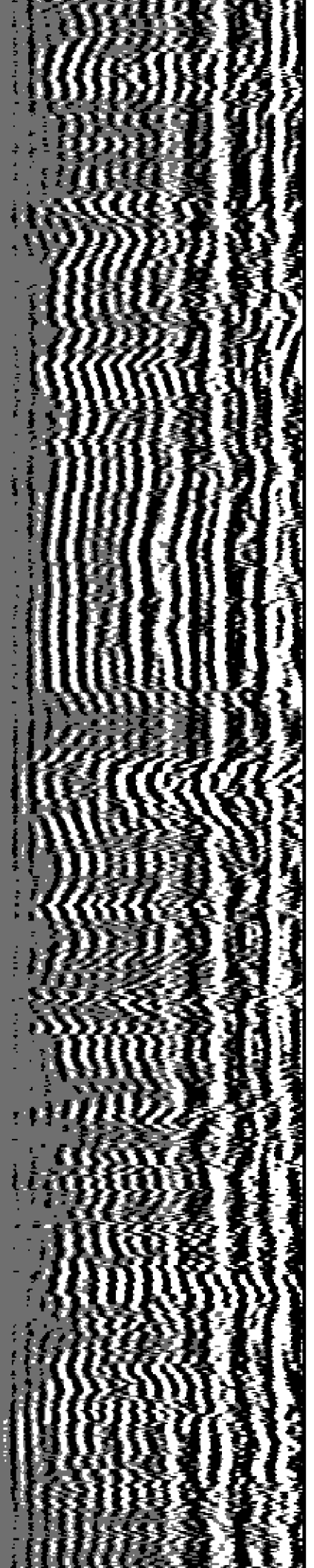


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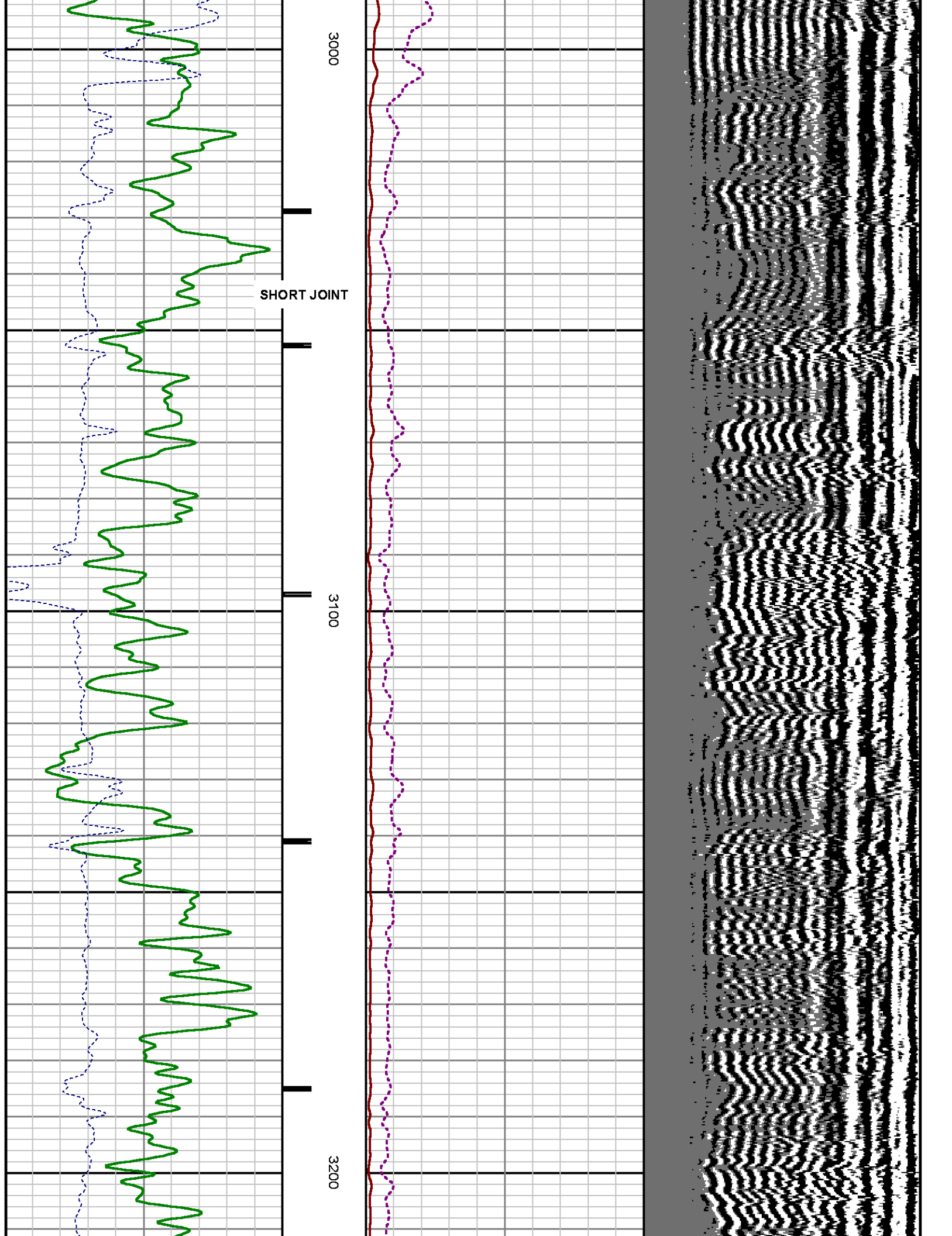
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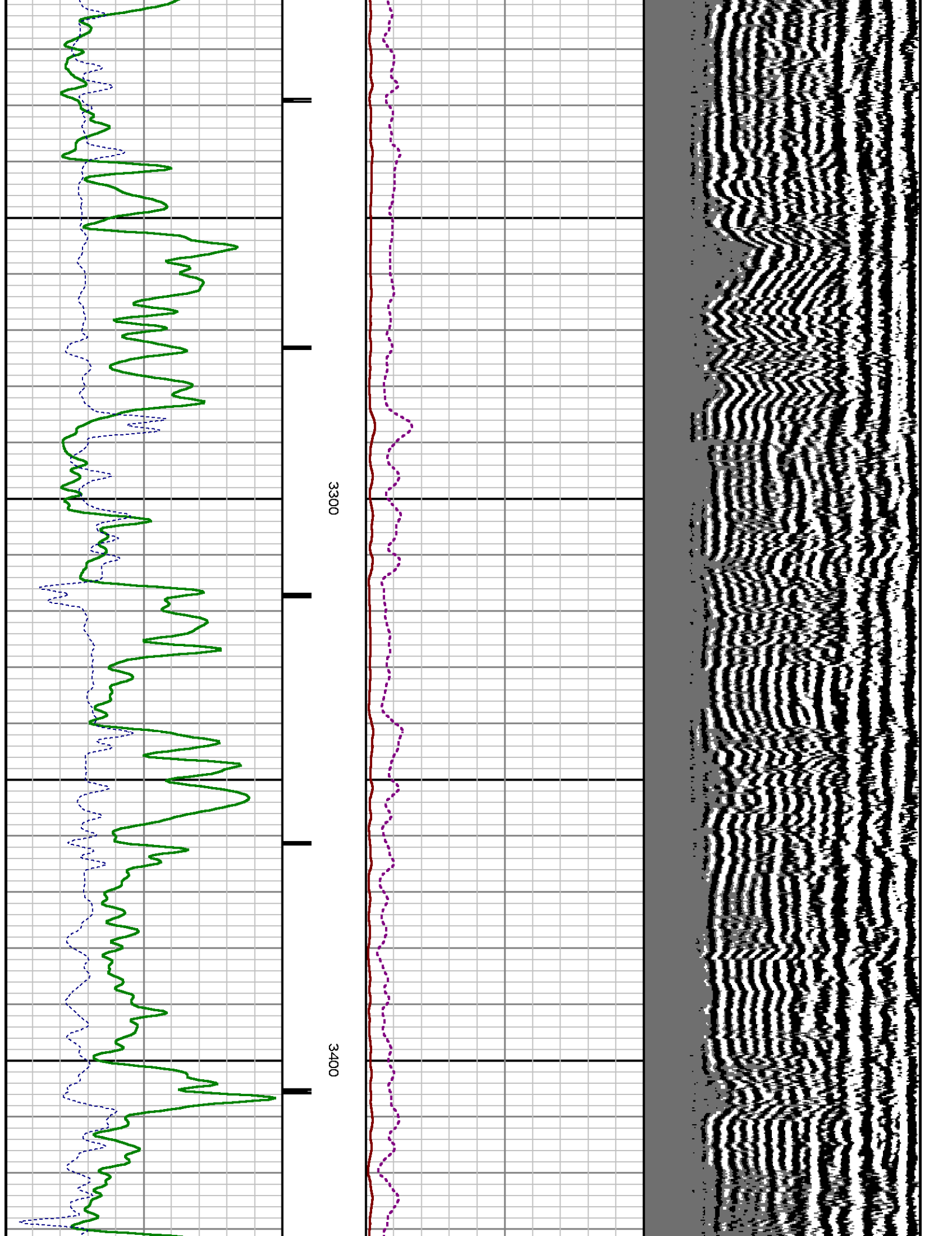


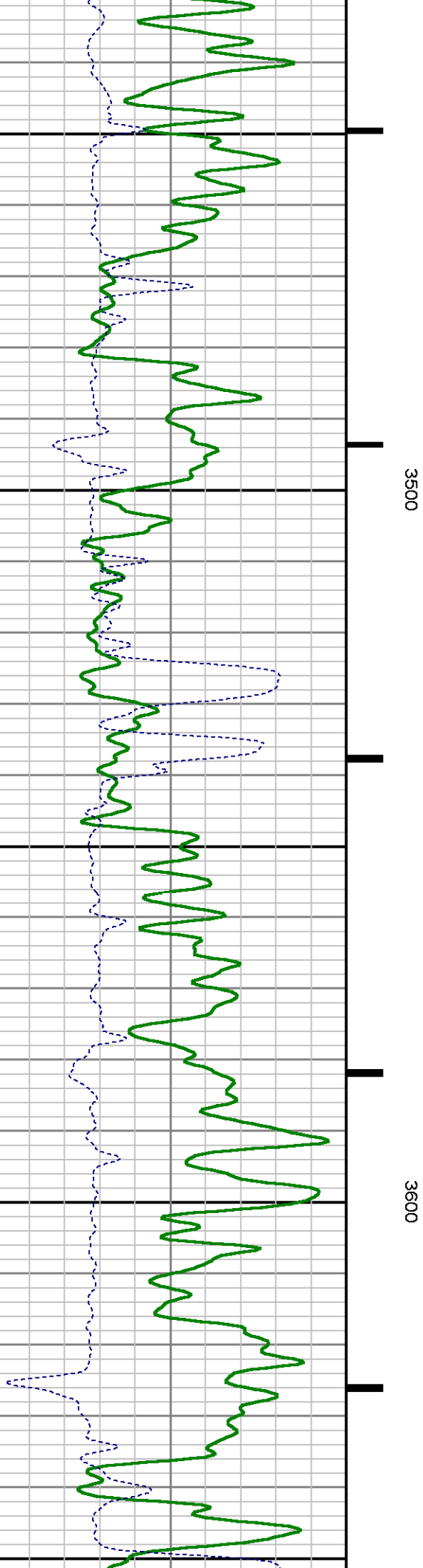
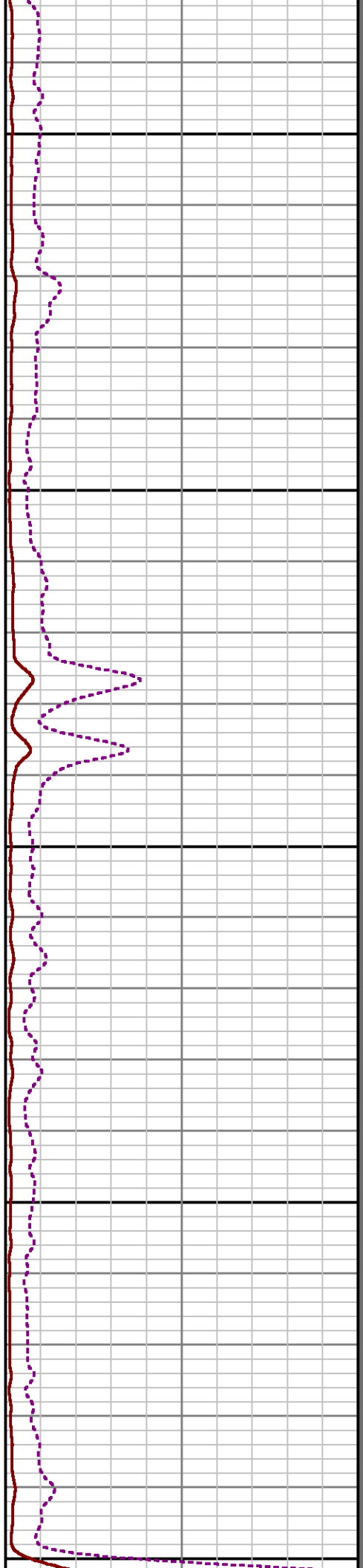
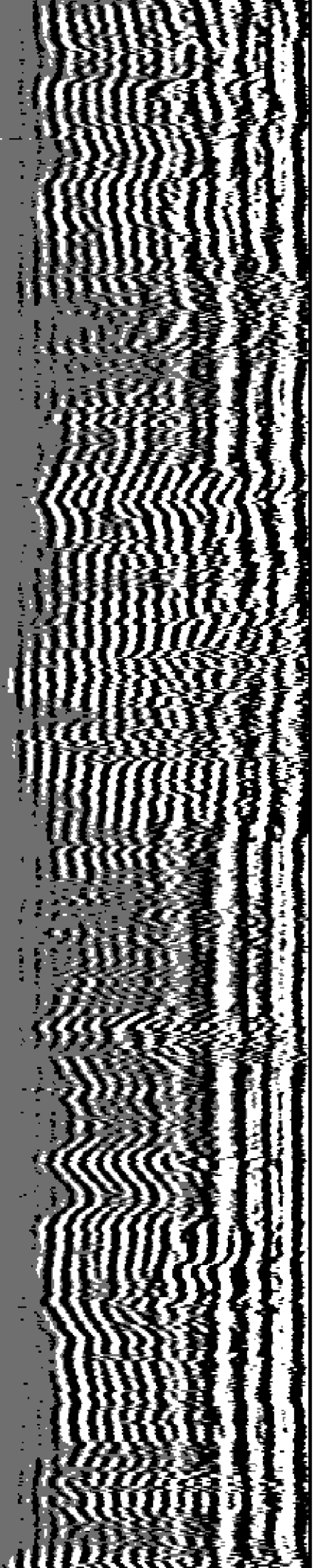


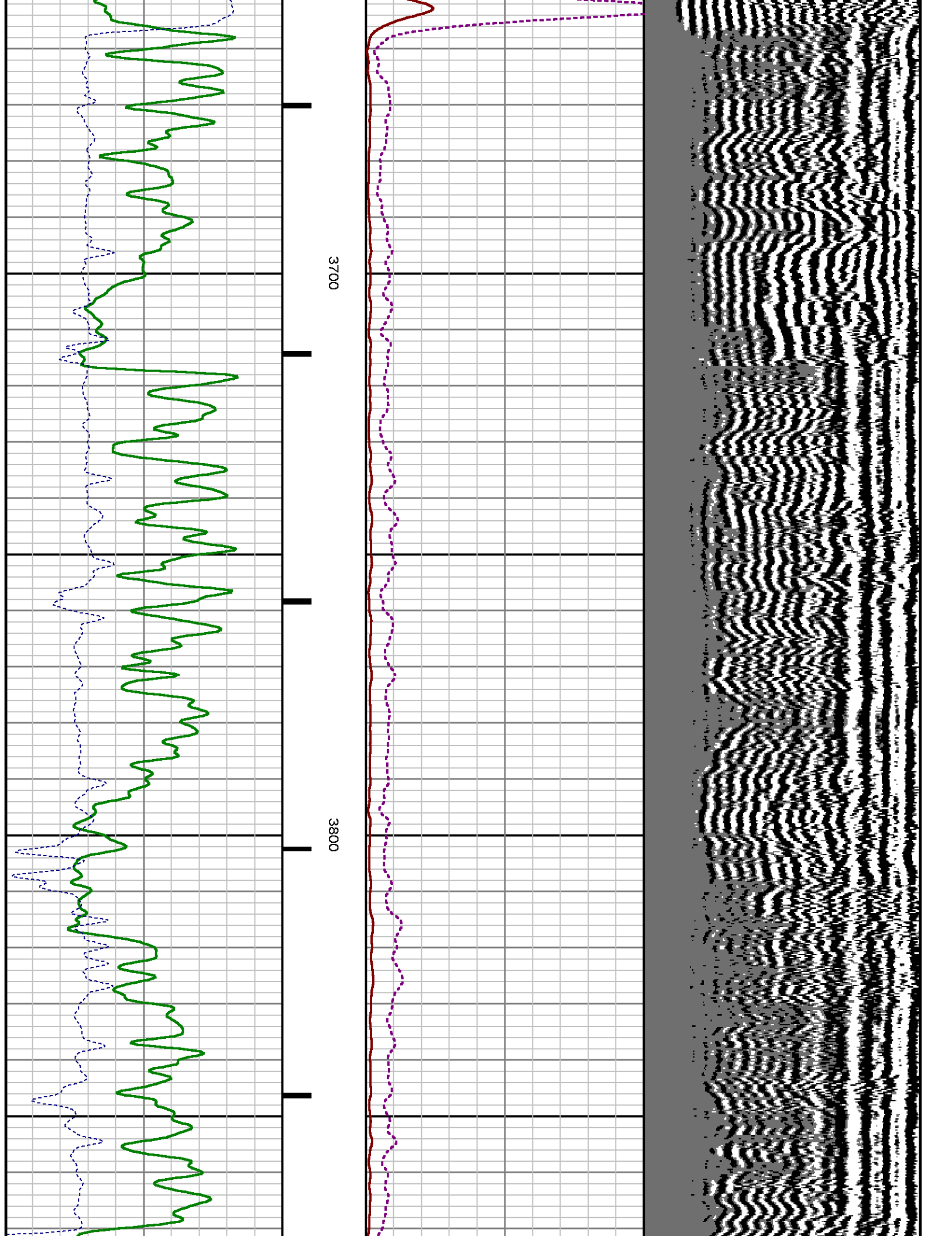


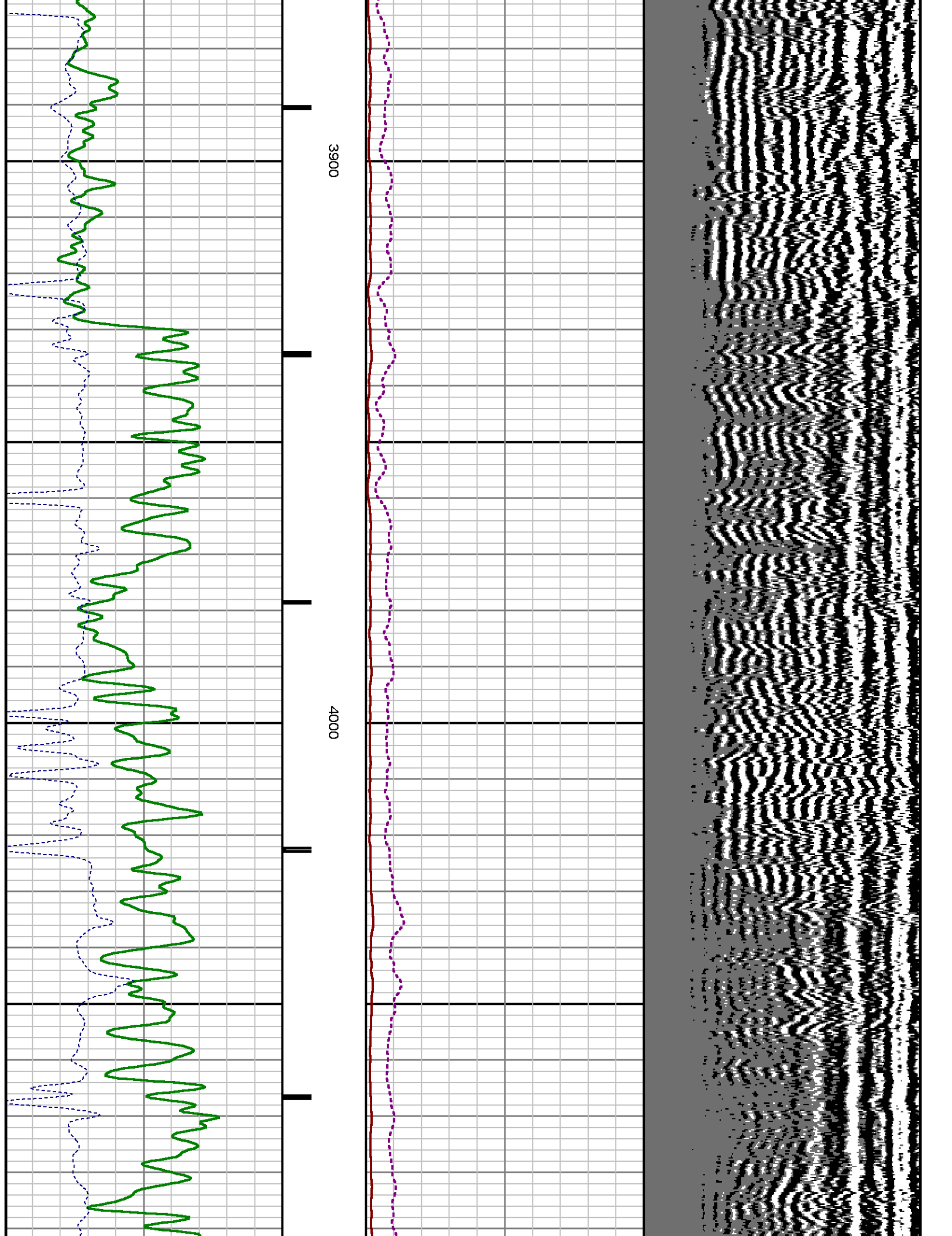




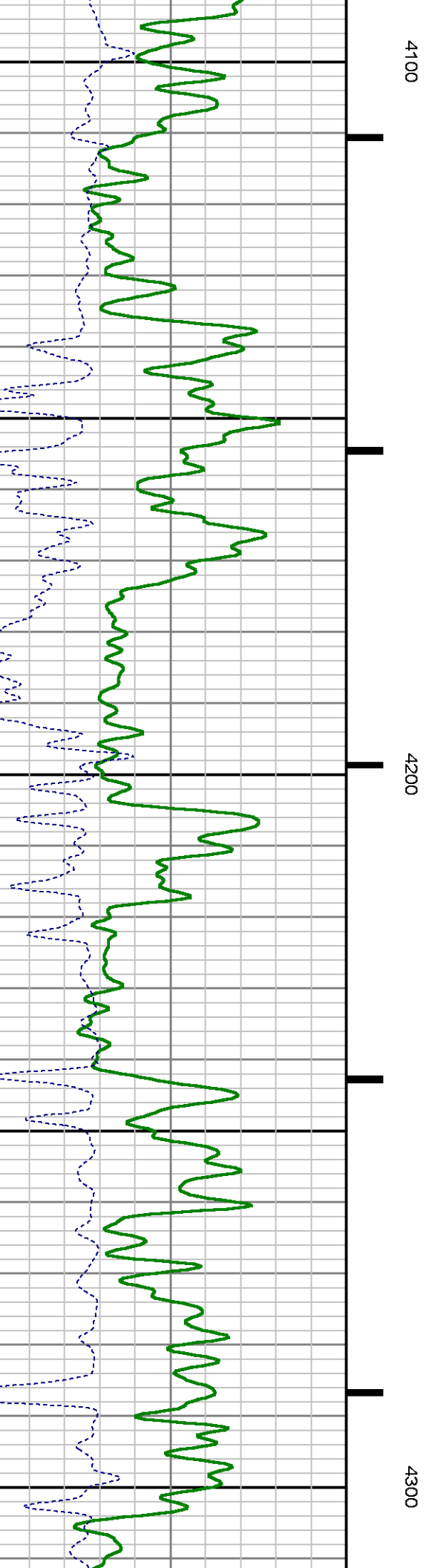
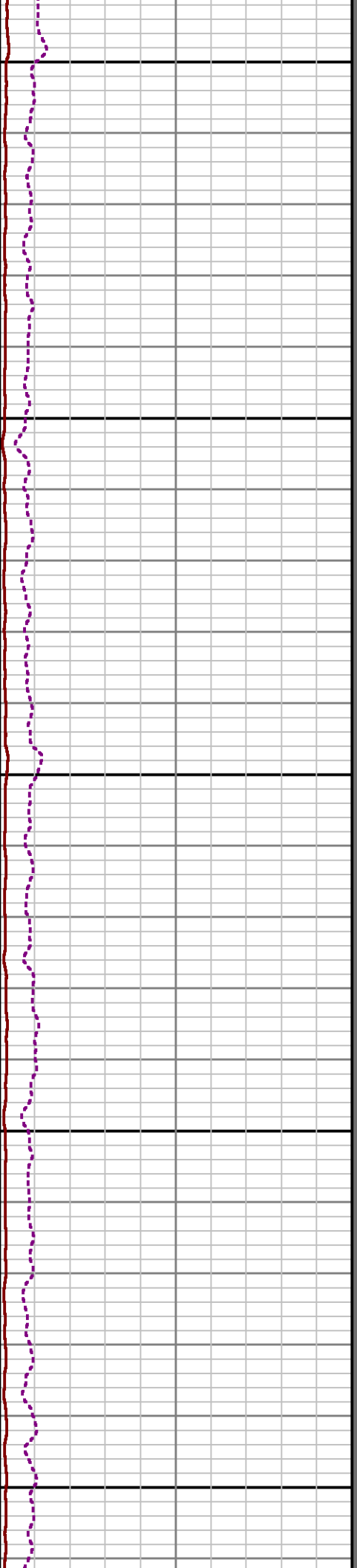
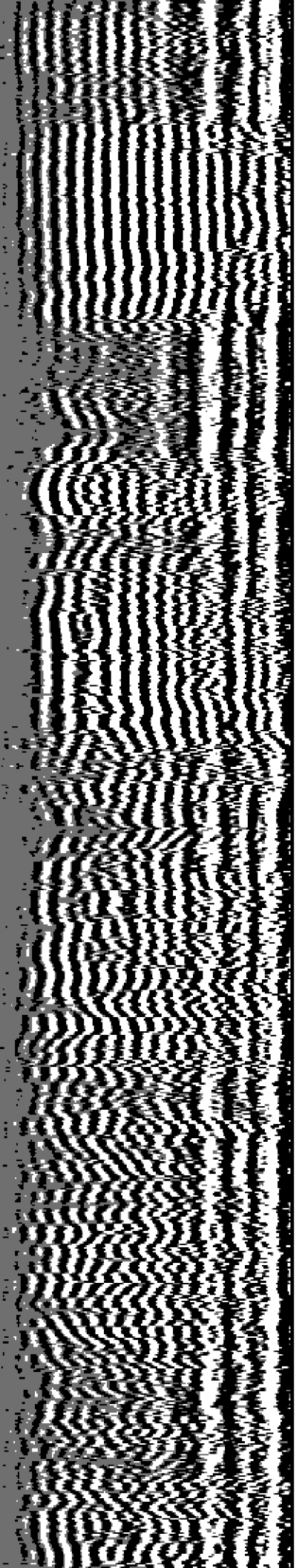


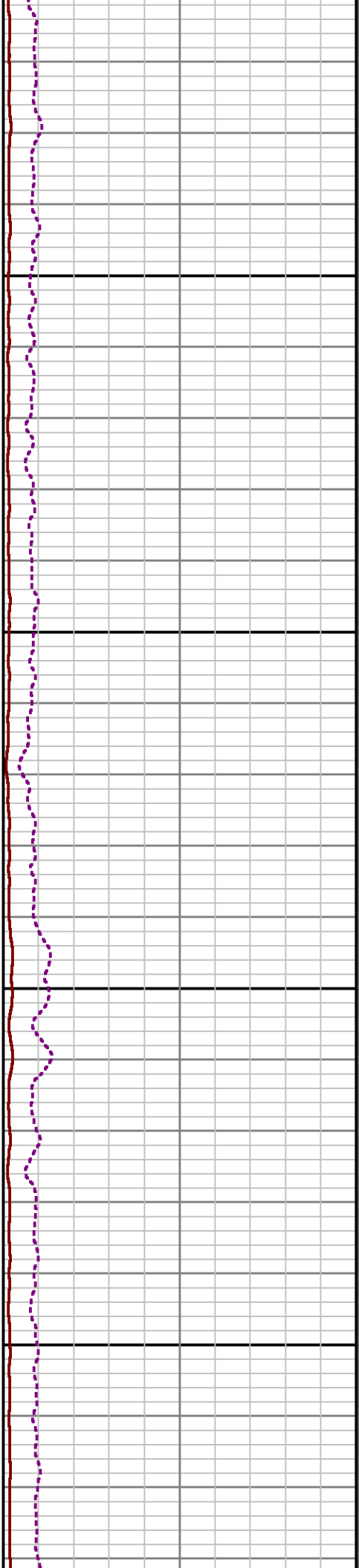
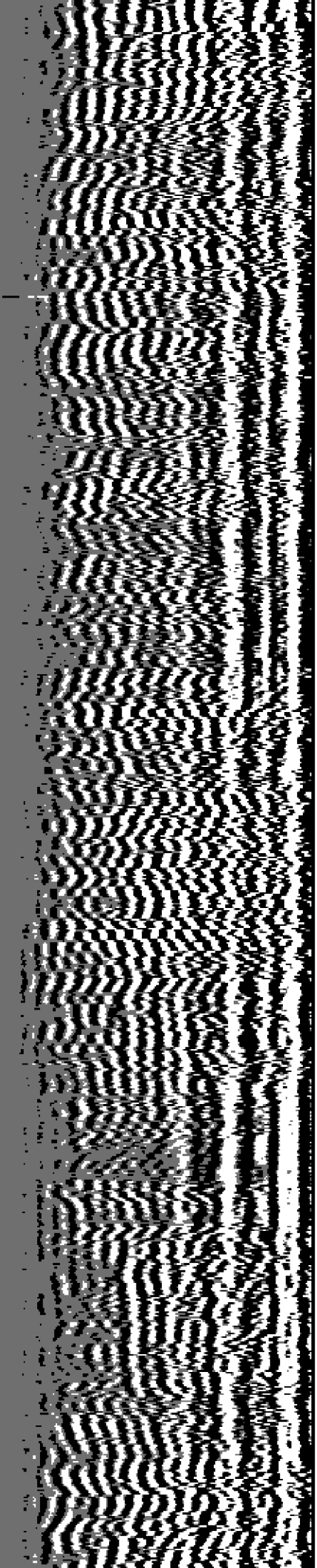






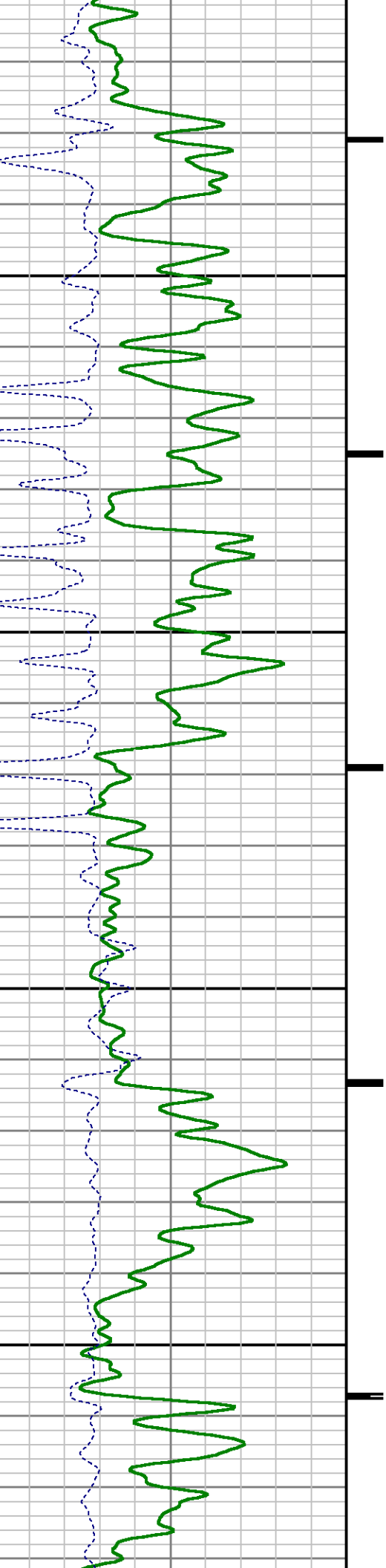


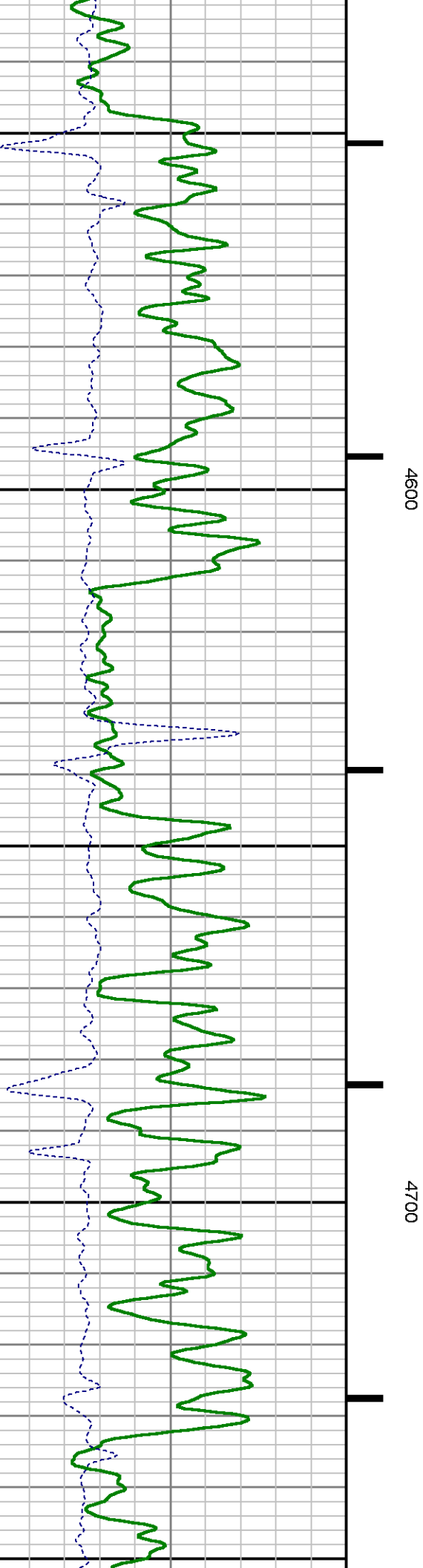
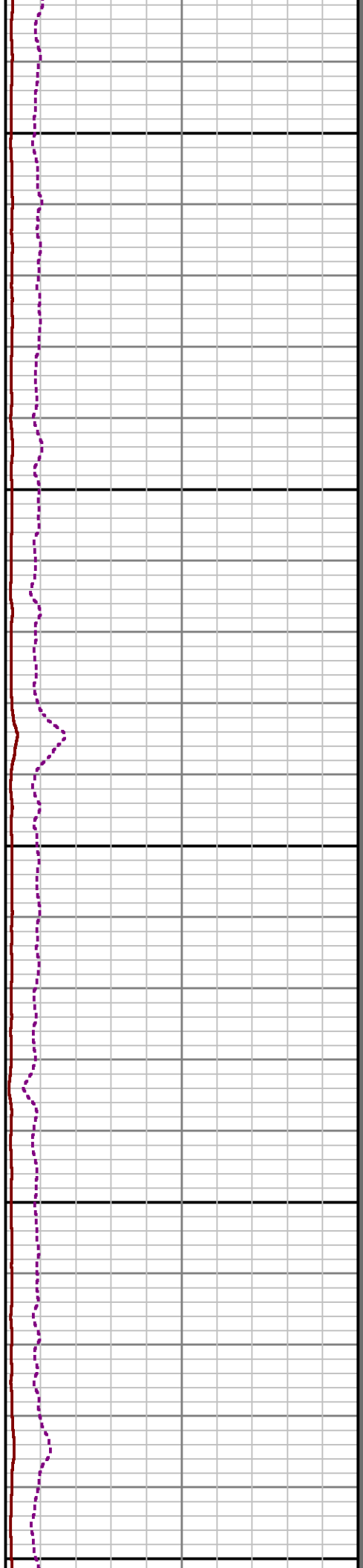
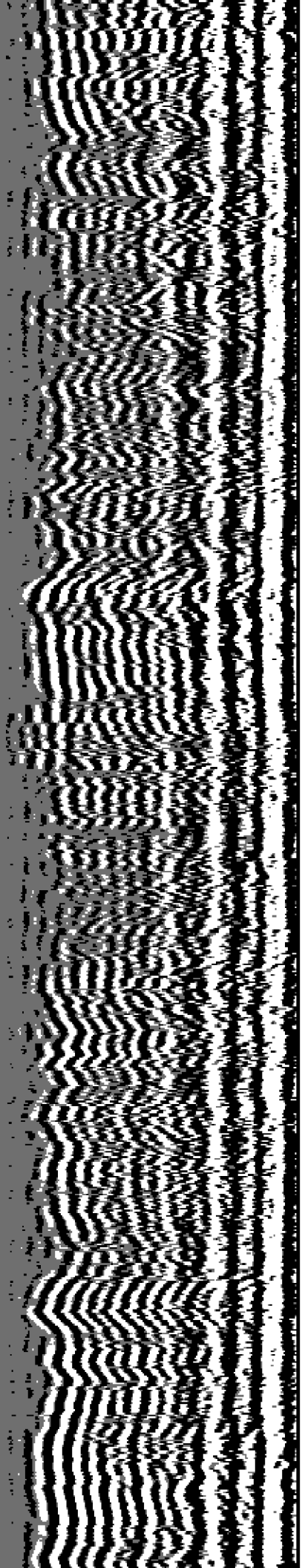




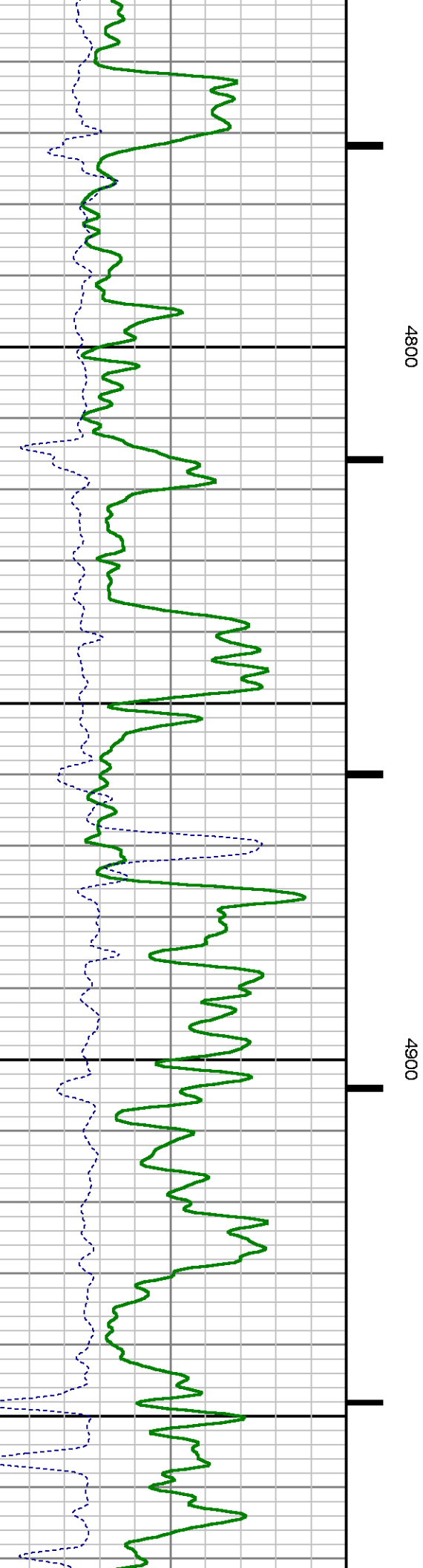
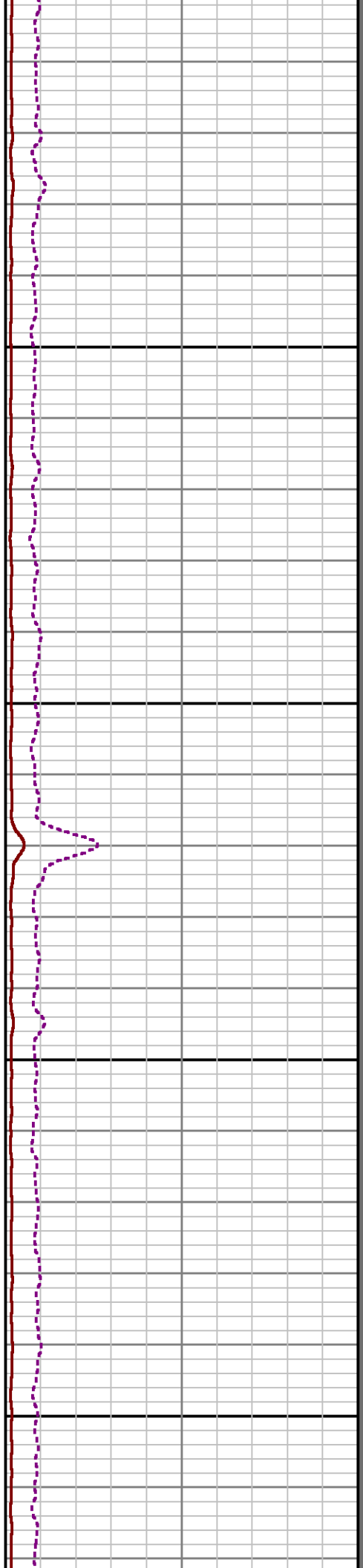
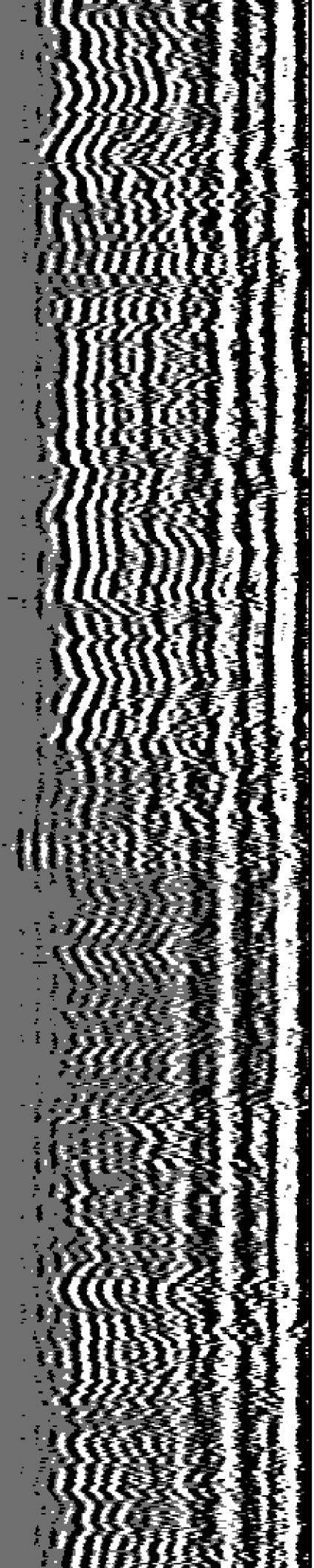
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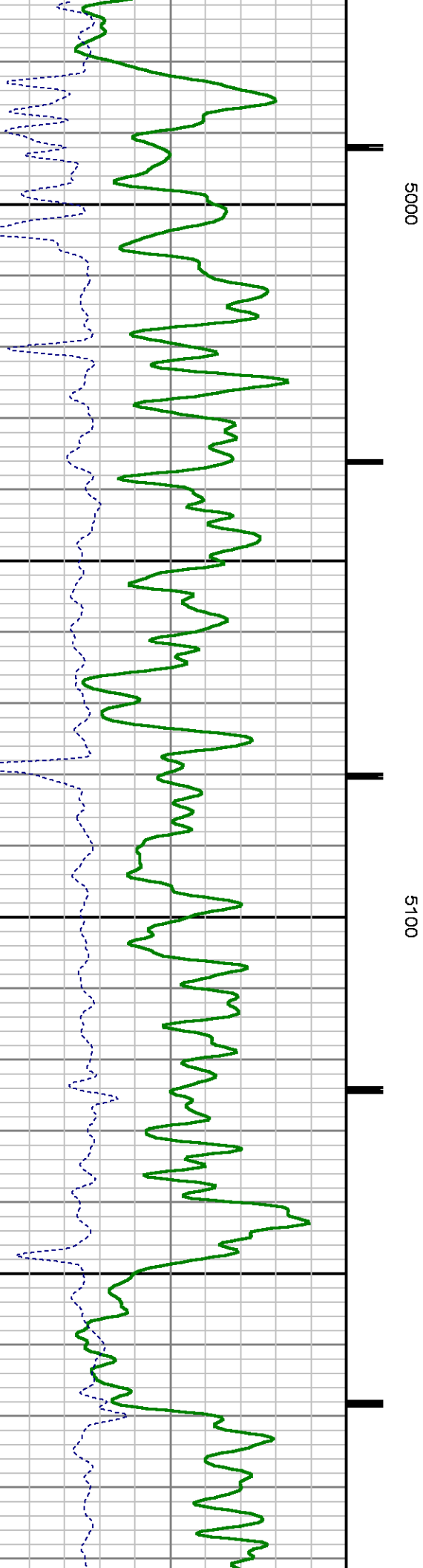
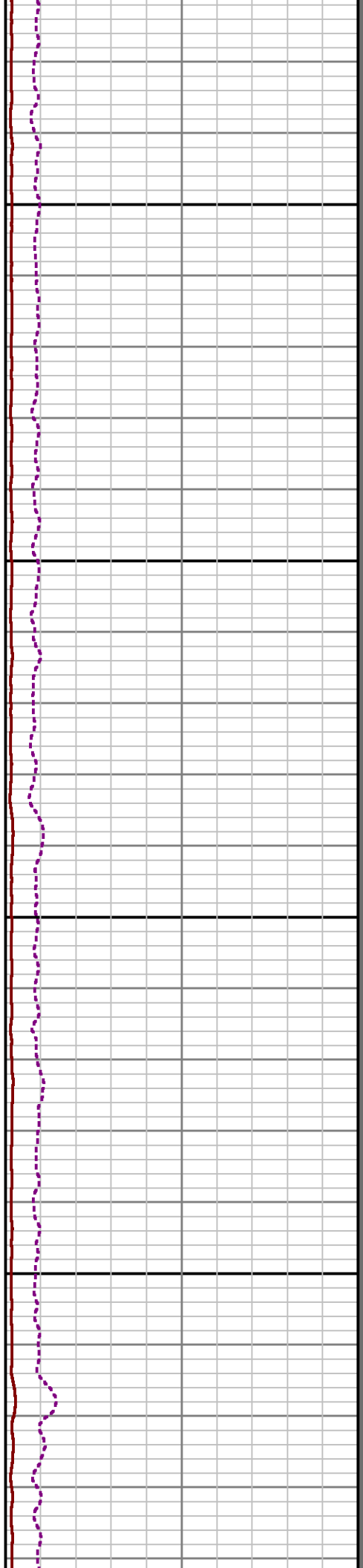
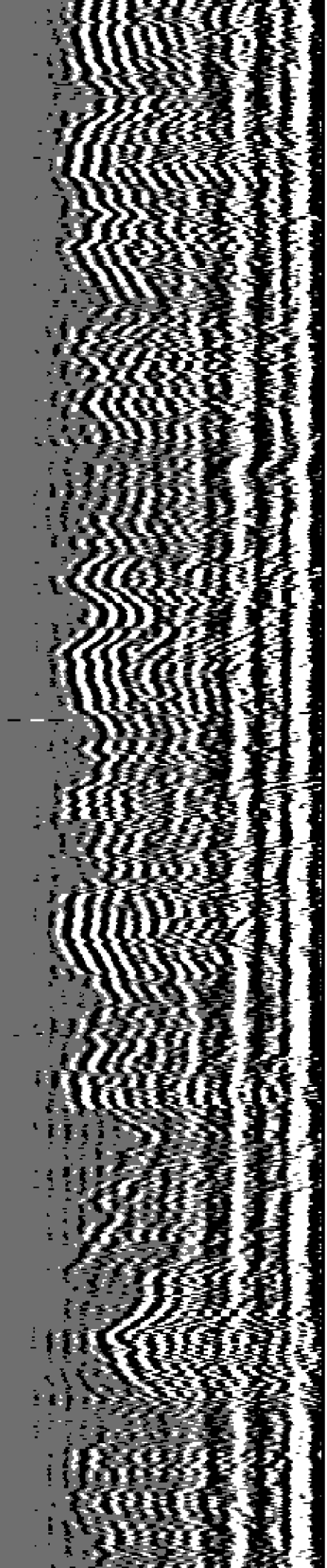
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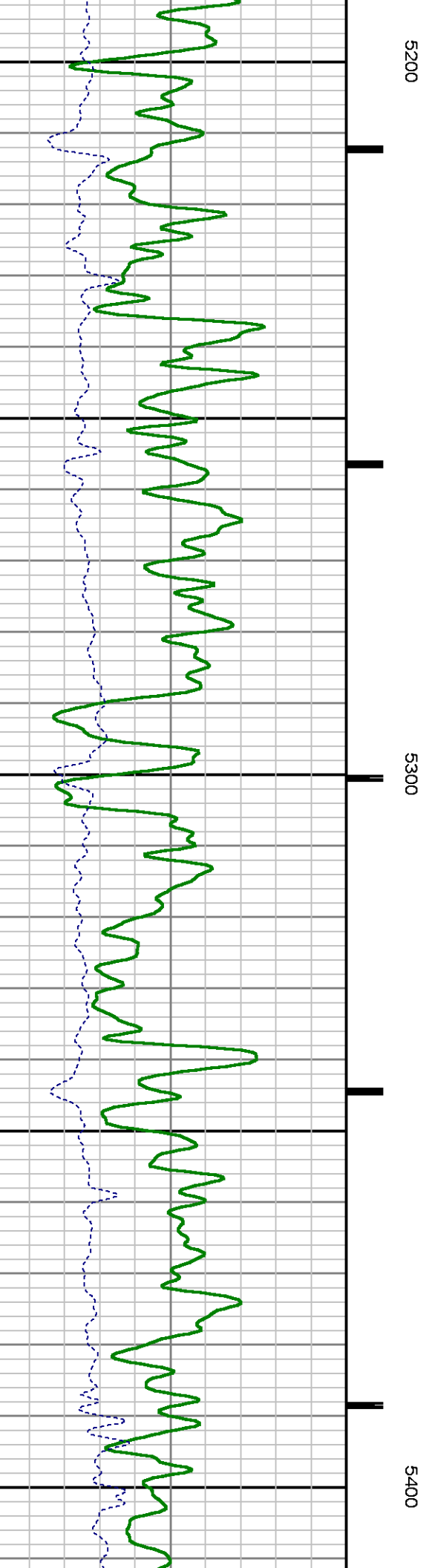
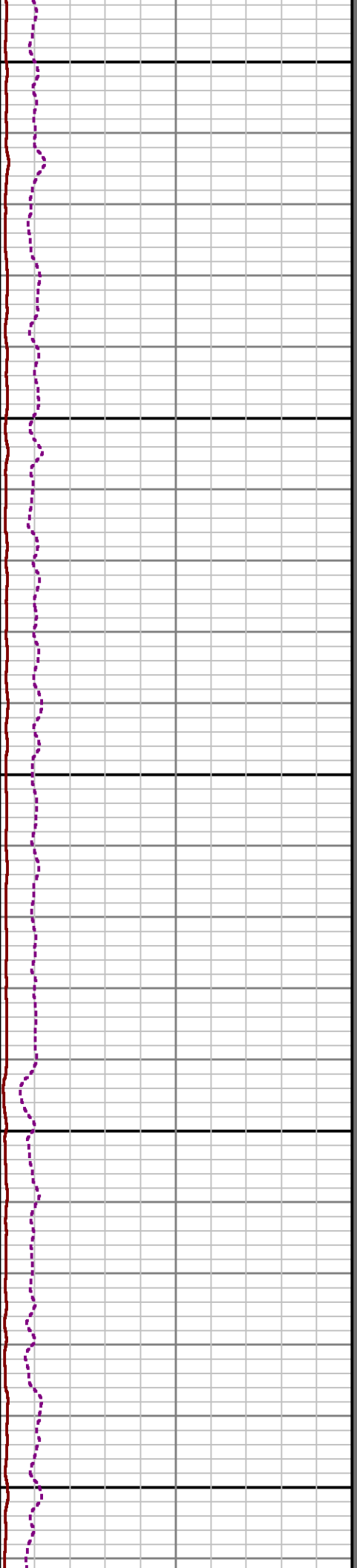
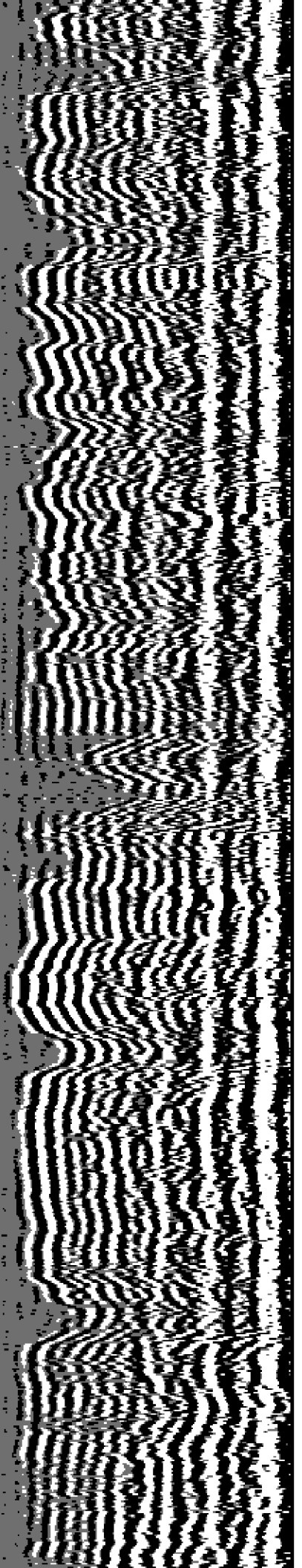


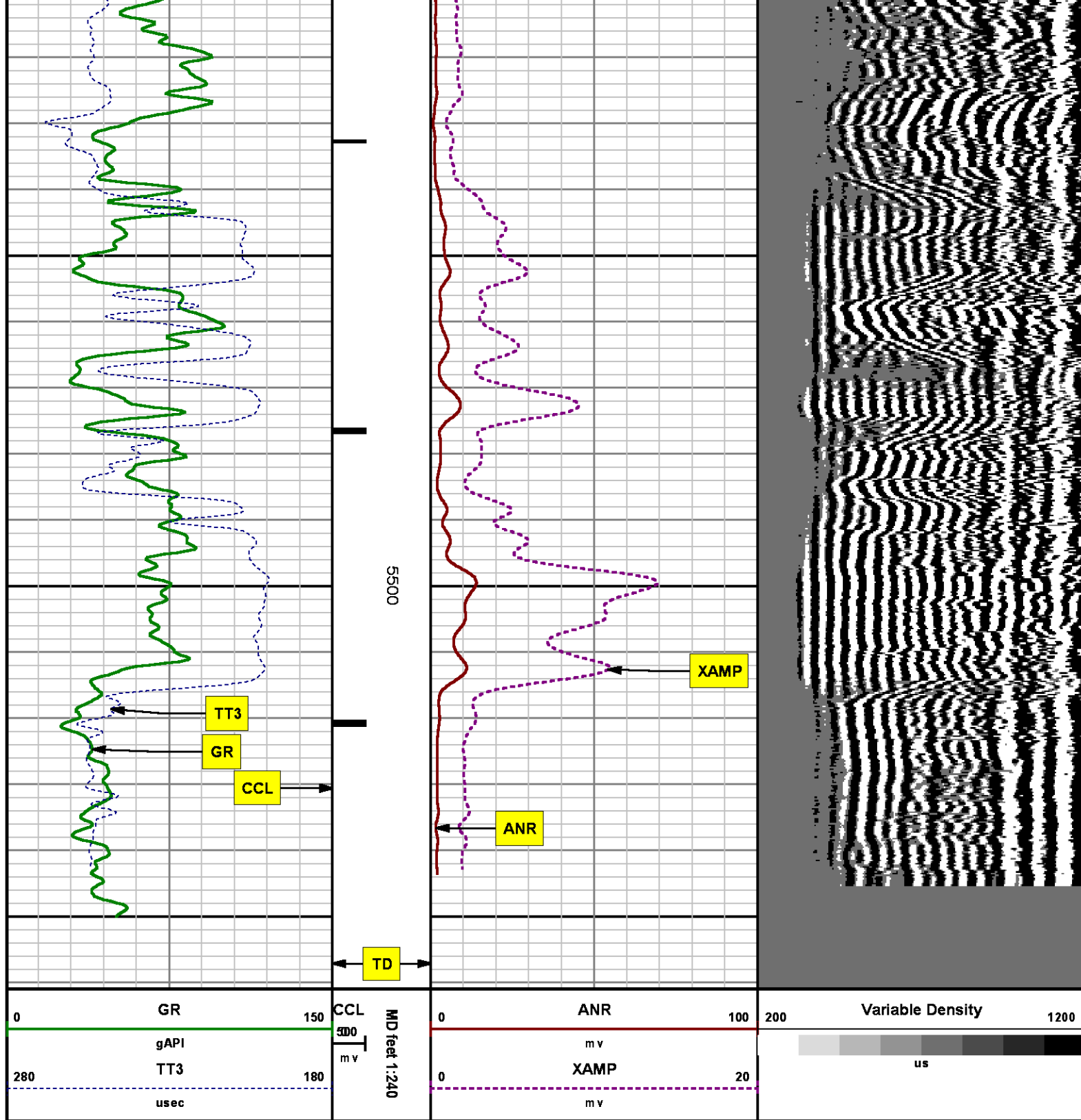












SECONDARY PRESENTATION  
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	32.438	5561.000
RAL	Amp Gate Start Near	195.000	usec	32.438	5561.000
RAL	Amp Gate Start Radial	195.000	usec	32.438	5561.000
RAL	Amp Gate Width Far	25.000	usec	32.438	5561.000
RAL	Amp Gate Width Near	25.000	usec	32.438	5561.000
RAL	Amp Gate Width Radial	25.000	usec	32.438	5561.000
RAL	casing od	4.500	inches	32.438	5561.000
RAL	casing wt	11.600	lbm/ft	32.438	5561.000
RAL	FB Start Far	291.900	usec	32.438	5561.000
RAL	FB Start Near	180.000	usec	32.438	5561.000
RAL	FB Start Radial	180.000	usec	32.438	5561.000
RAL	FB Thresh Far	10.000	mV	32.438	5561.000
RAL	FB Thresh Near	4.000	mV	32.438	5561.000
RAL	FB Thresh Radial	4.000	mV	32.438	5561.000
RAL	Fluid Travel Time	200.000	usec/ft	32.438	5560.906

## 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

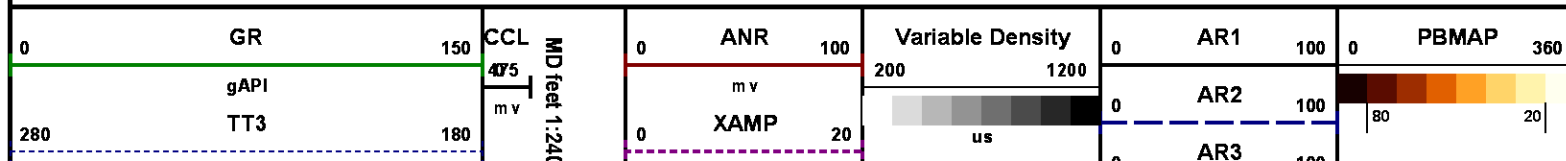
Well : BOSELY SG 414-22

File Name : d:\welldata\wpx\sg 414-22\414ral\main.txtf

Mode : PlotMgr 5.4.504

Interval : -10.00 - 5561.00 feet UP

Created : 4/7/2014 3:30:02 PM



u sec

m v

0	AR4	100
0	AR5	100
0	AR6	100
0	AR7	100
0	AR8	100

WELL HEAD

ANR

XAMP

FLUID LEVEL

CCL

GR

TT3

100

AR1

AR2

AR3

AR4

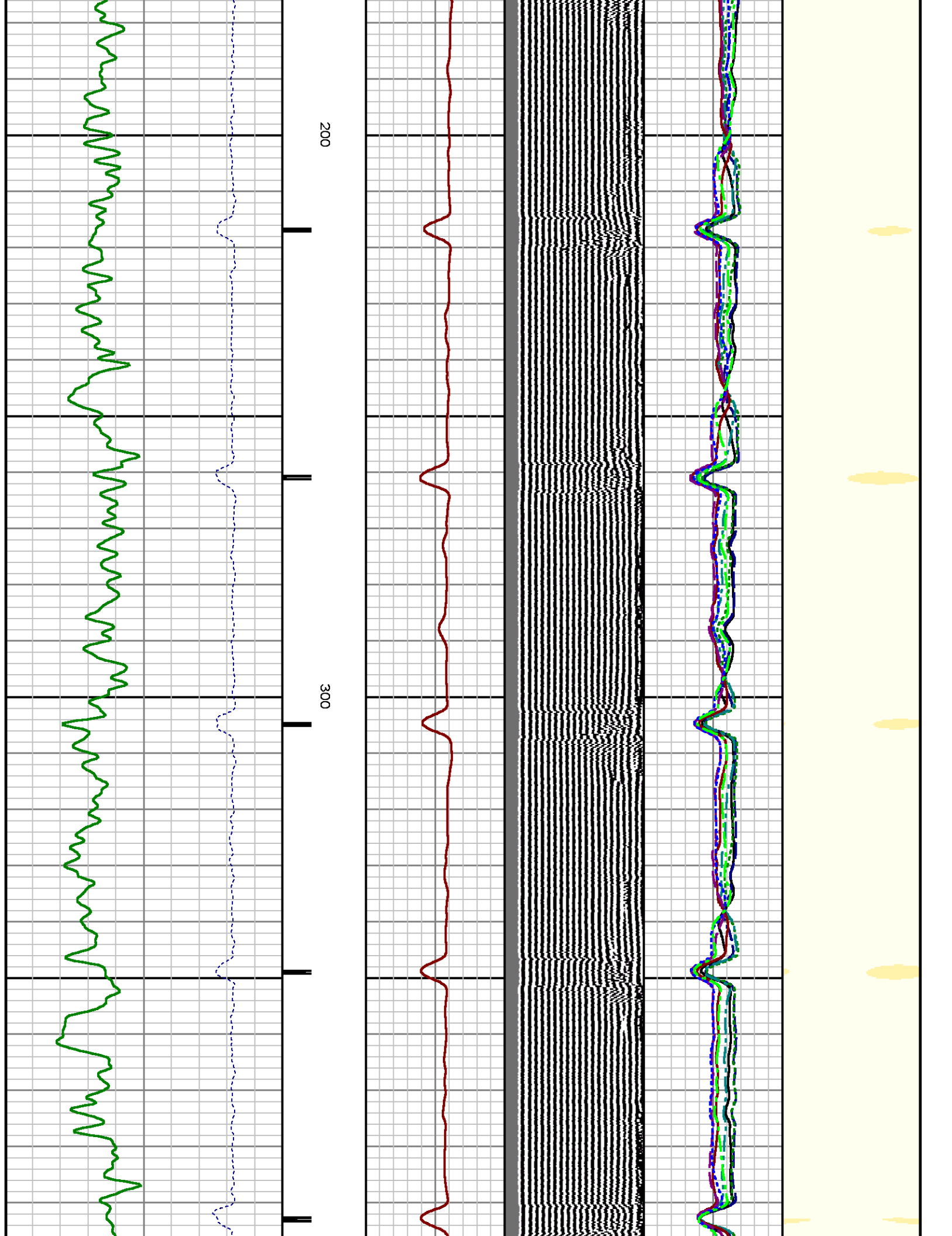
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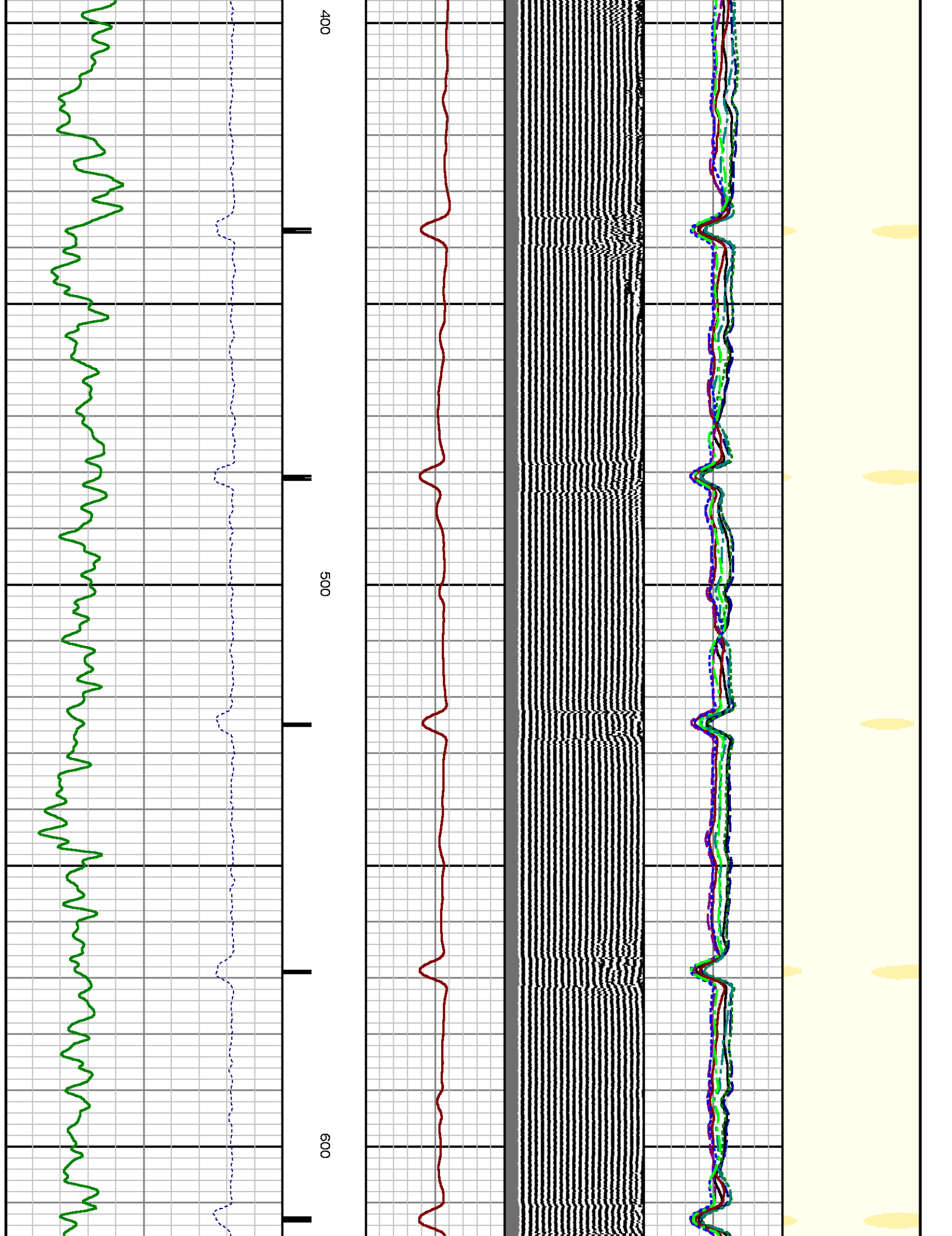
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AR7

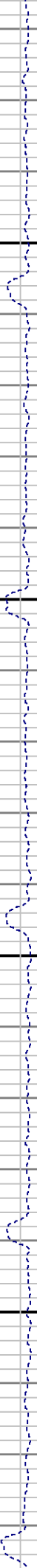
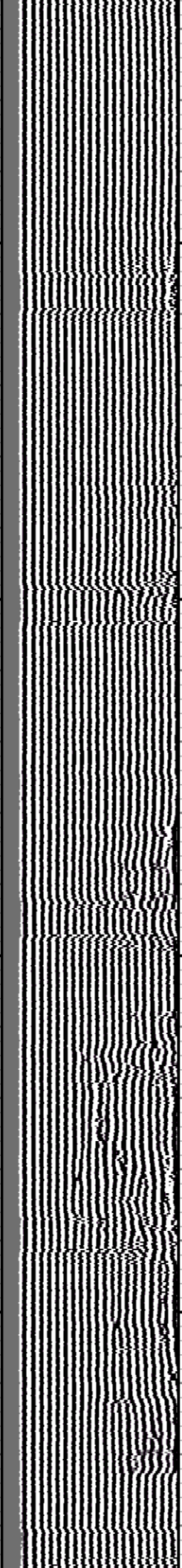
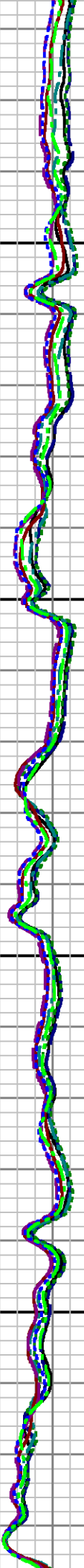
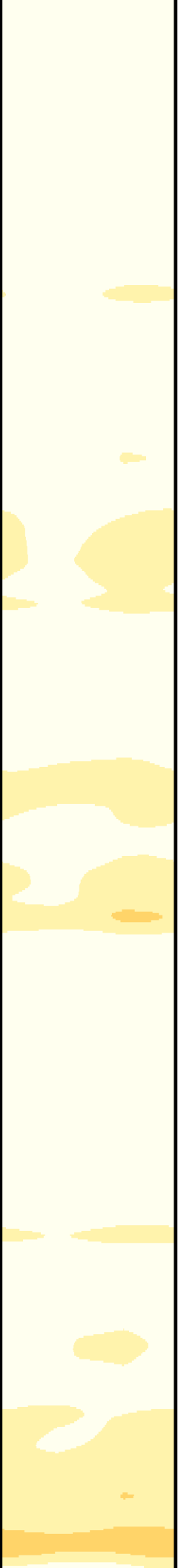
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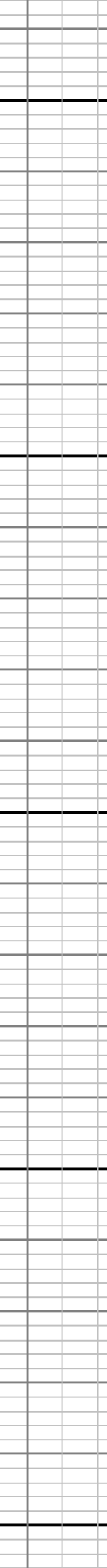
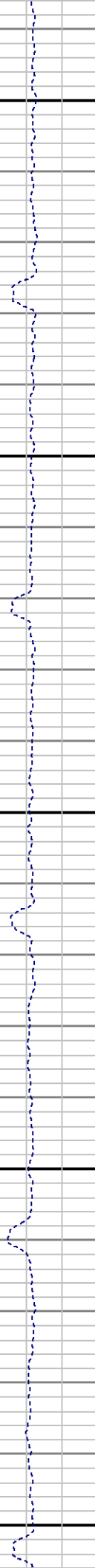
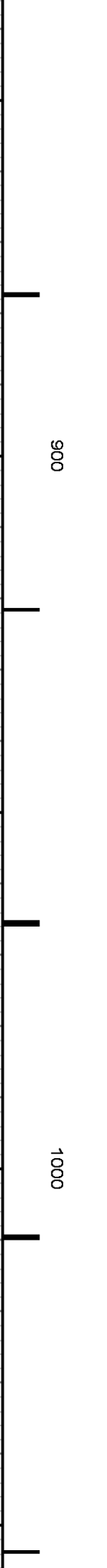
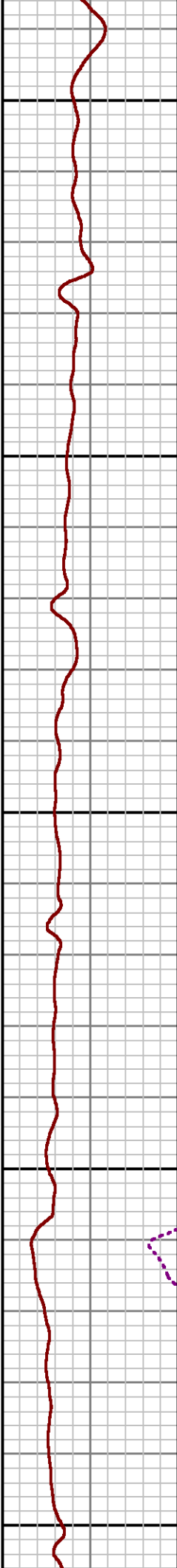
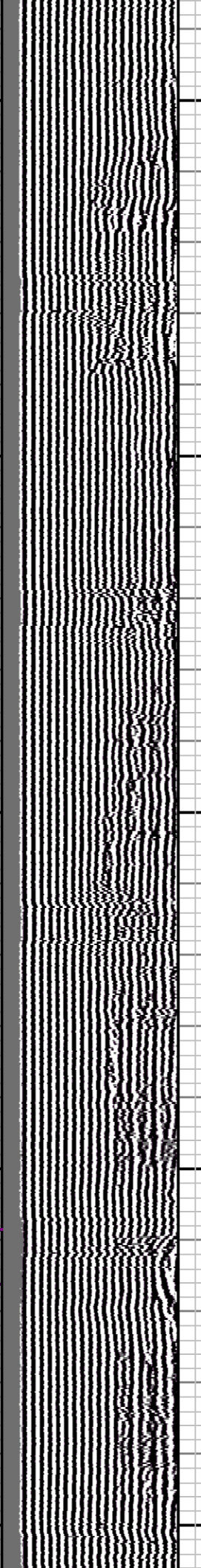
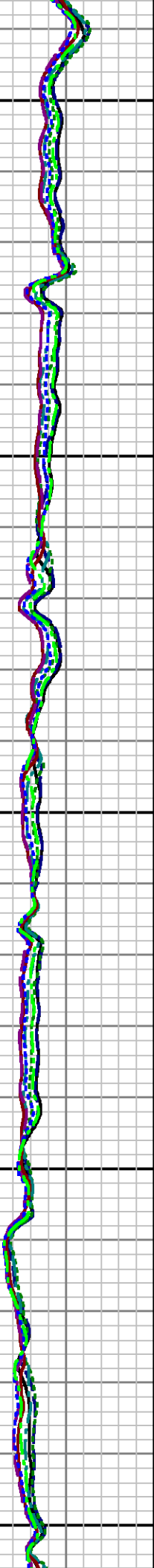
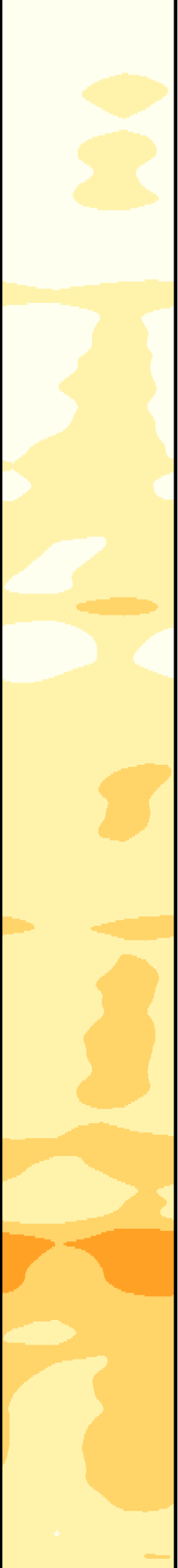


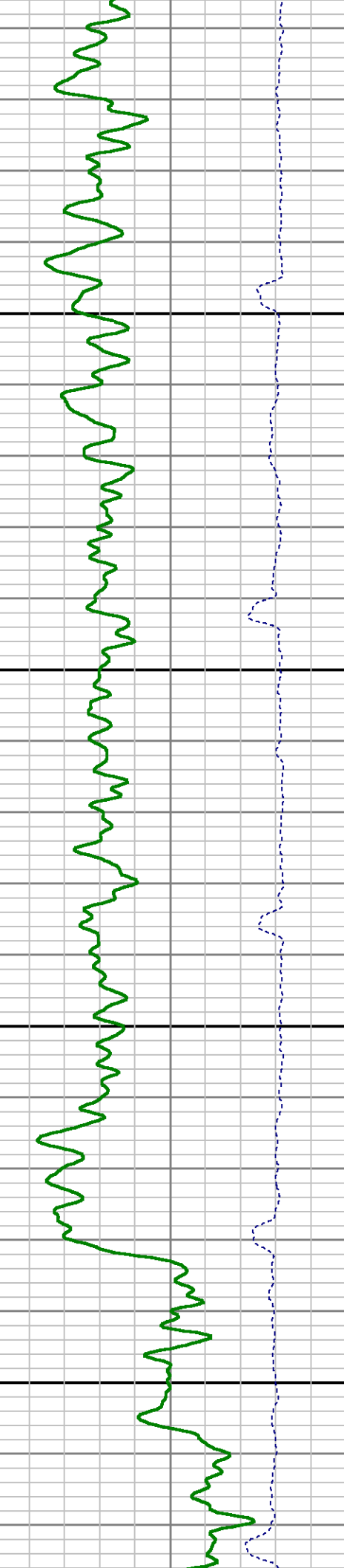
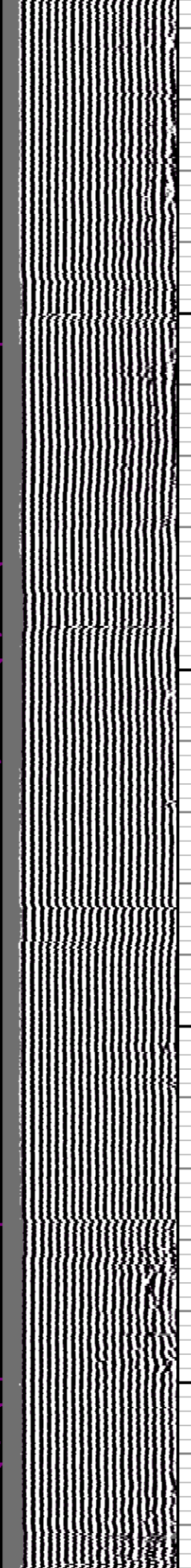
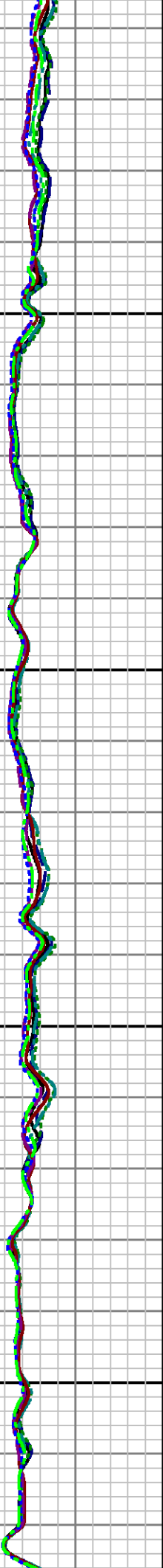
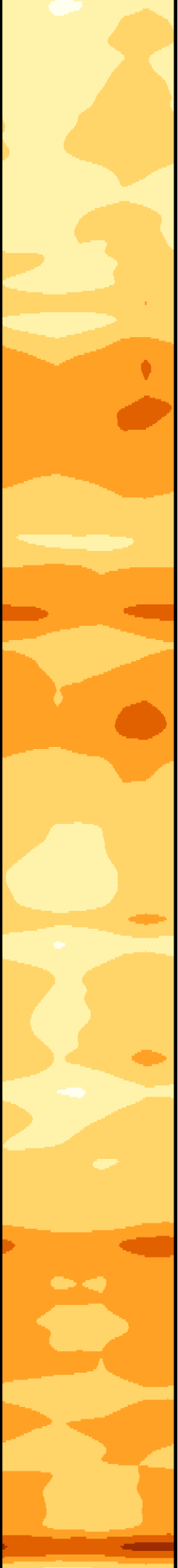


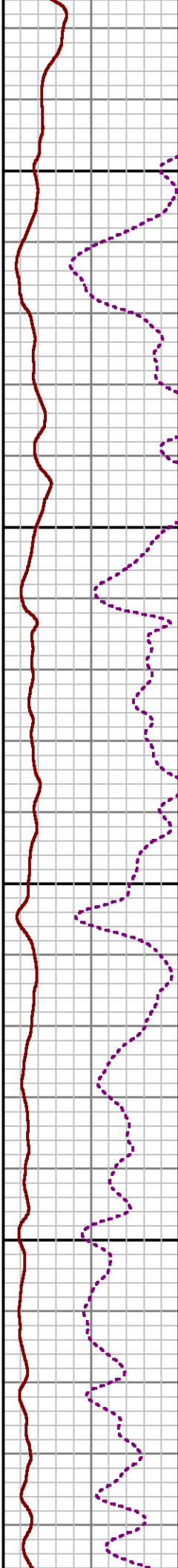
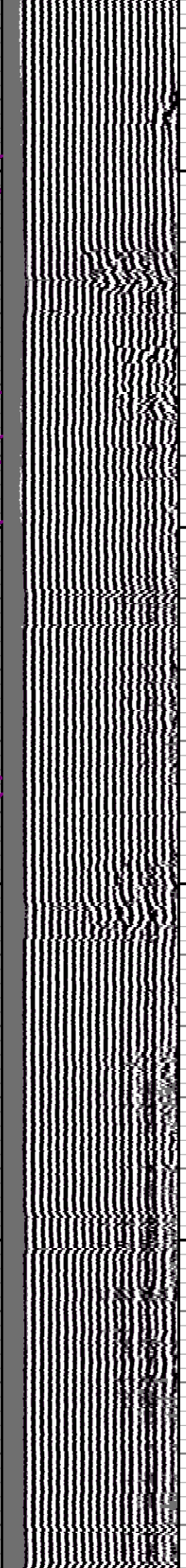
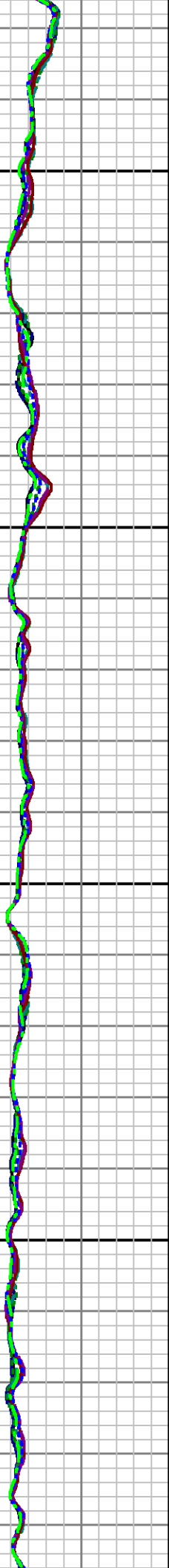
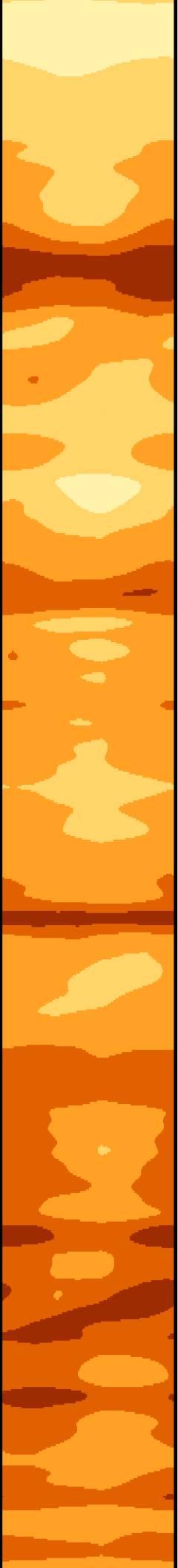






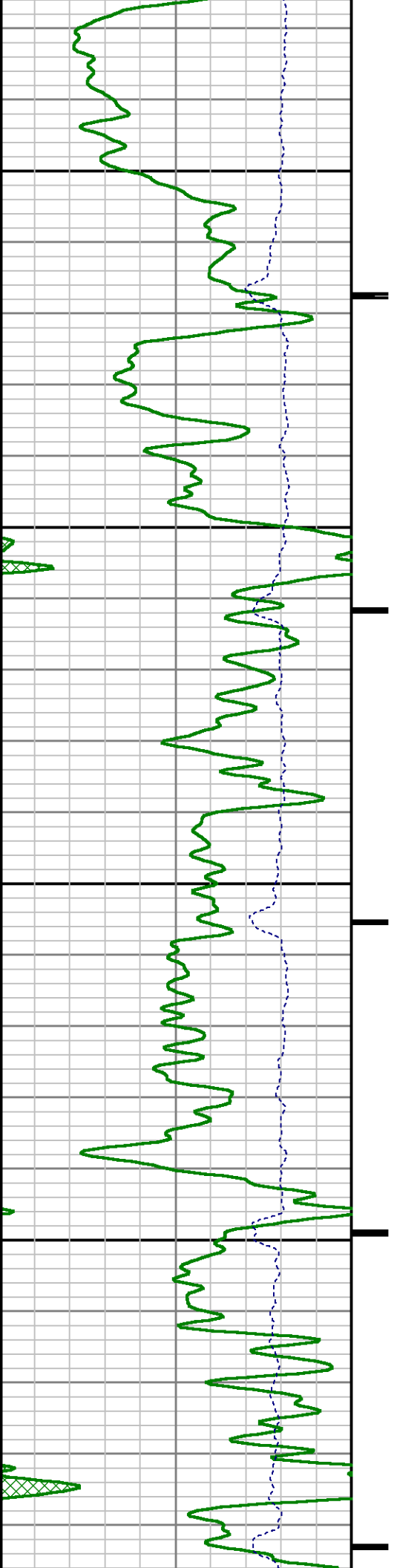


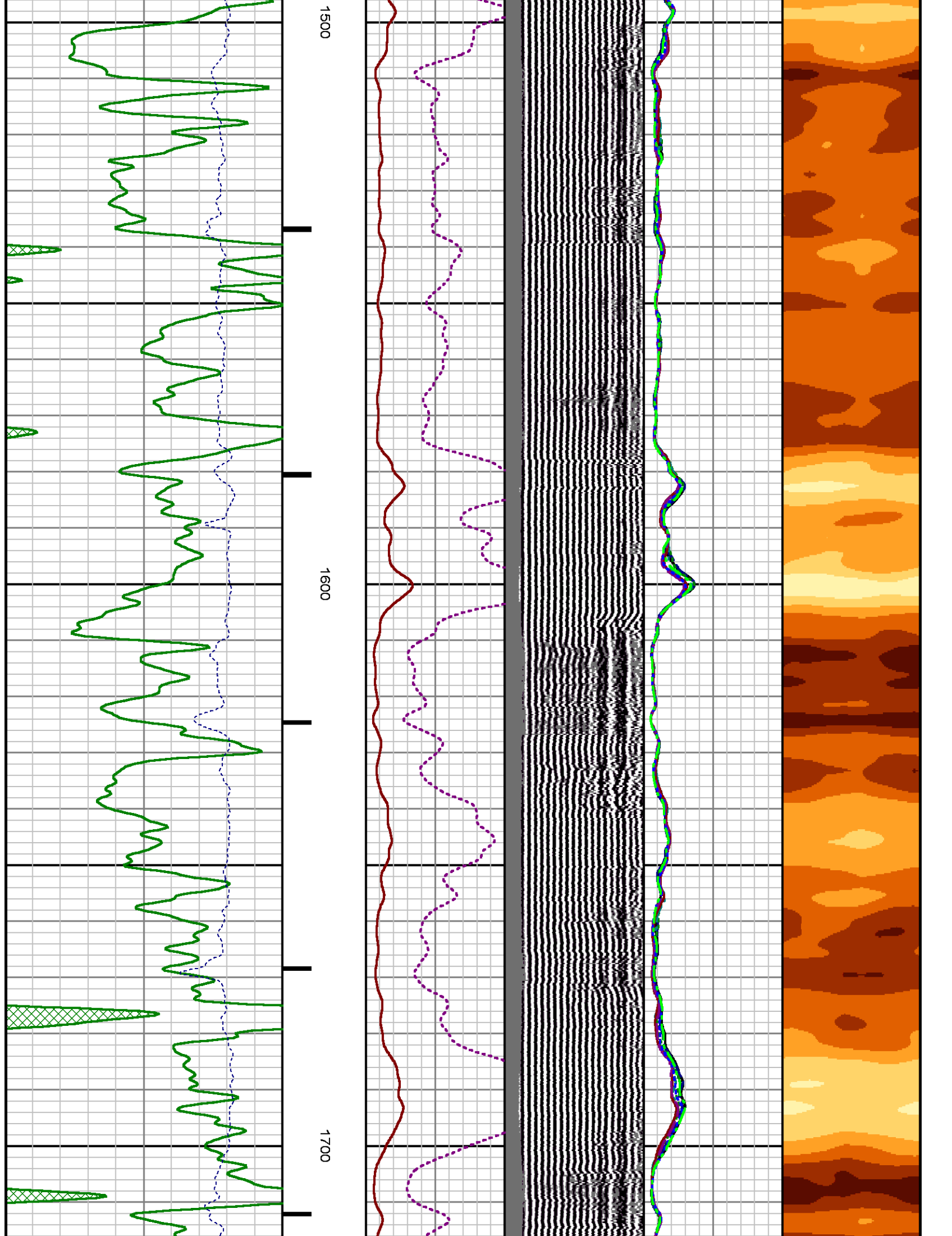




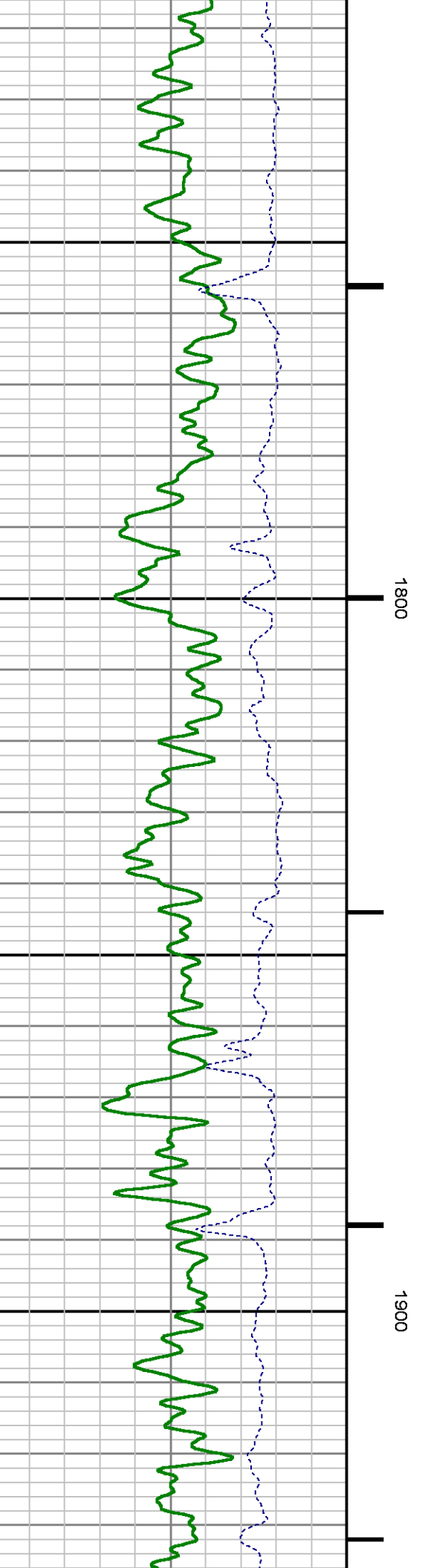
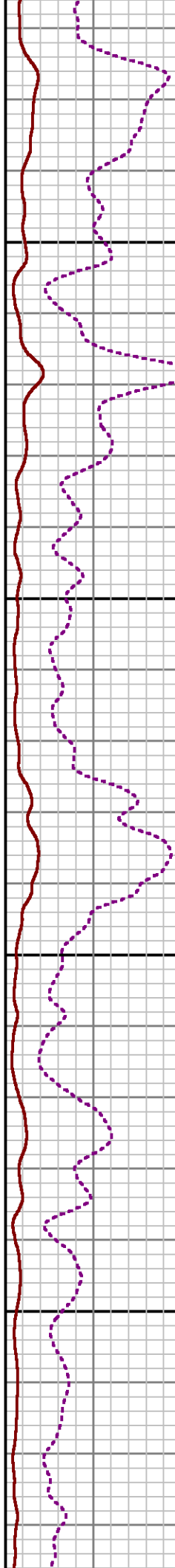
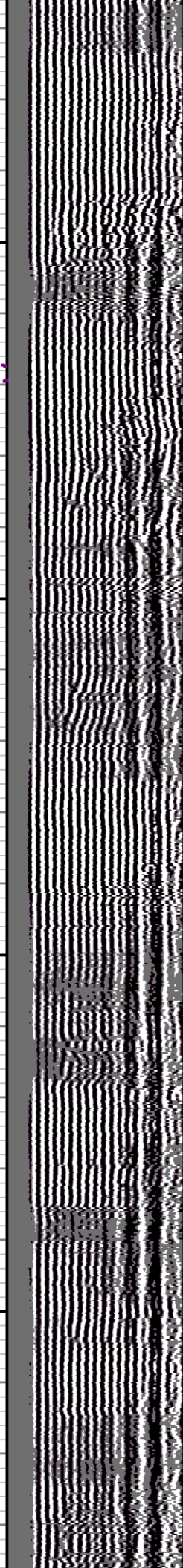
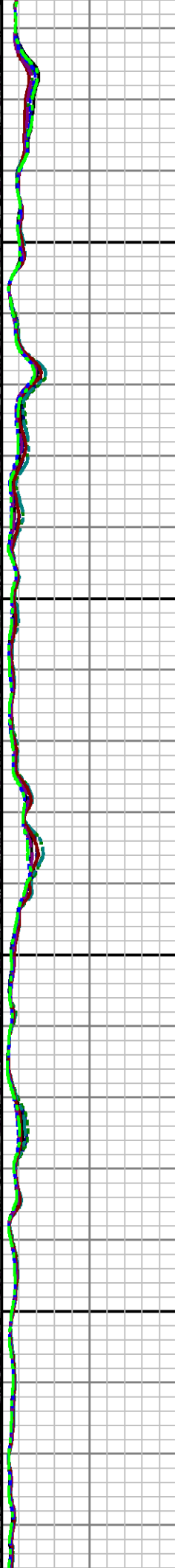
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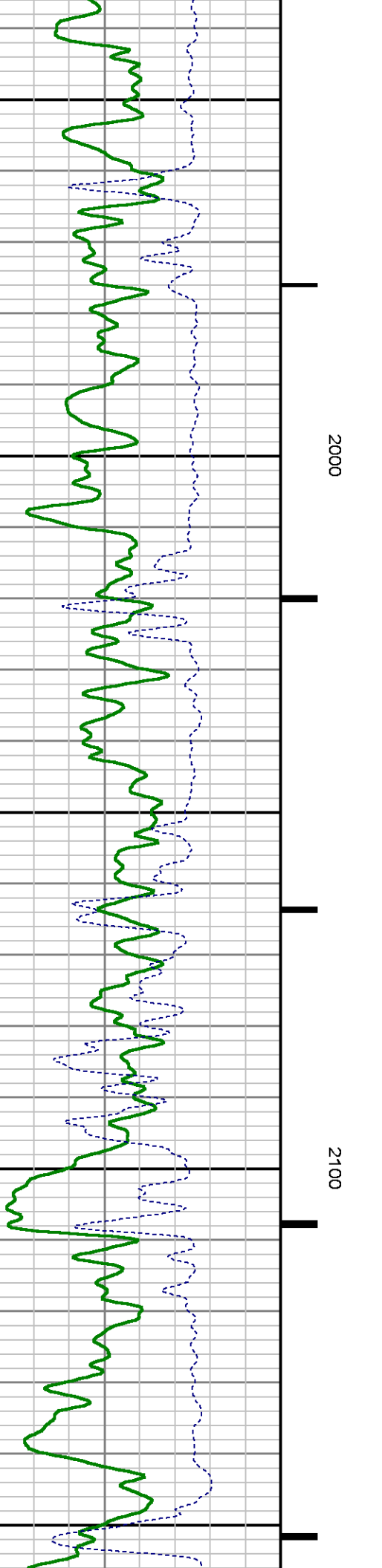
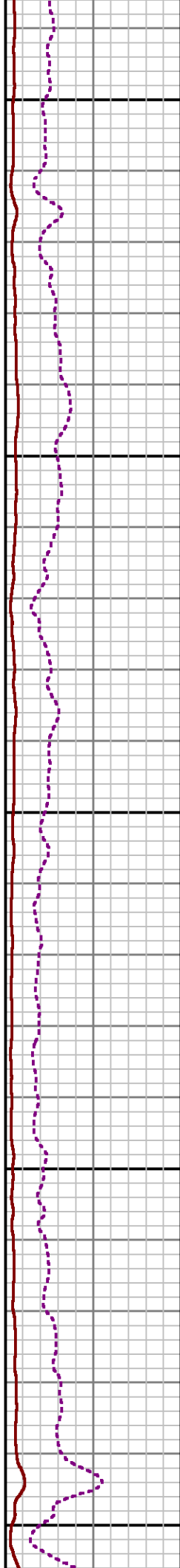
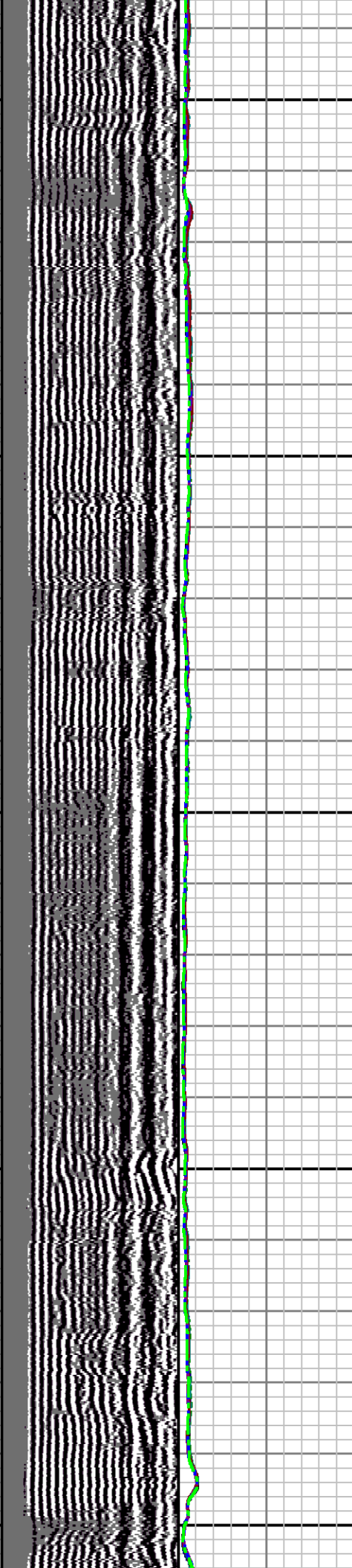
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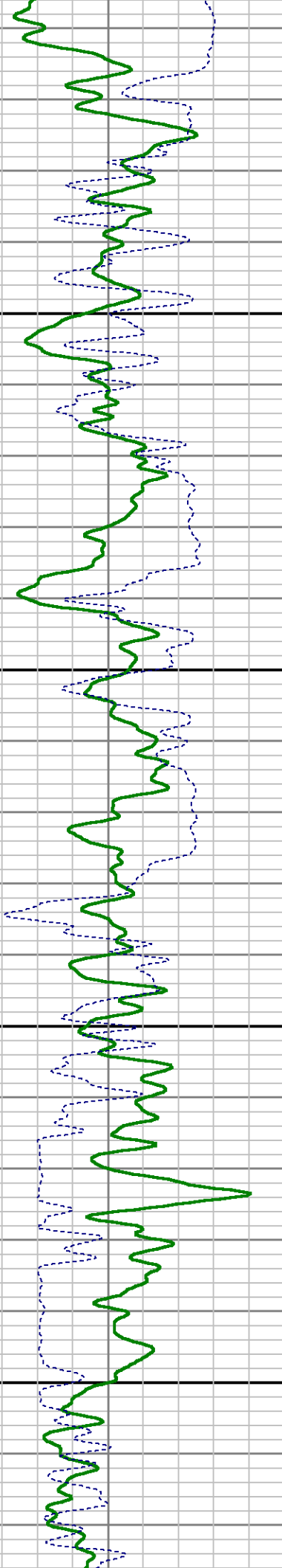
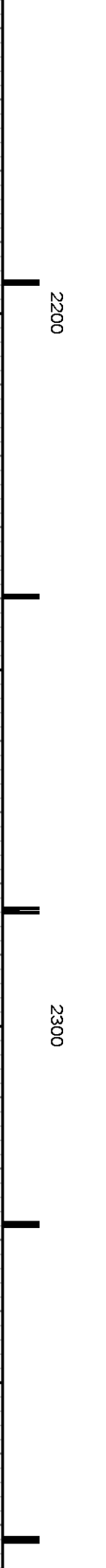
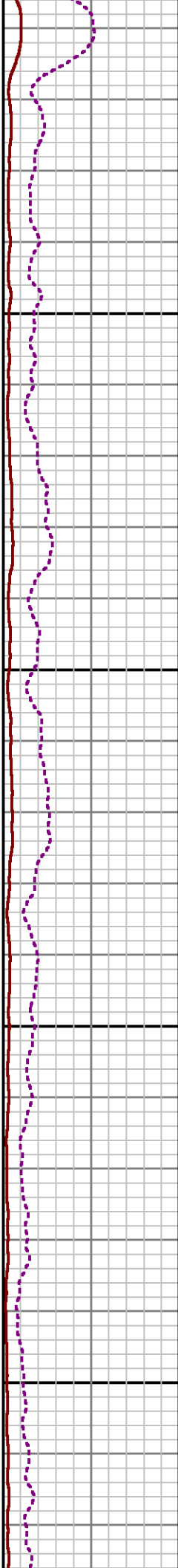
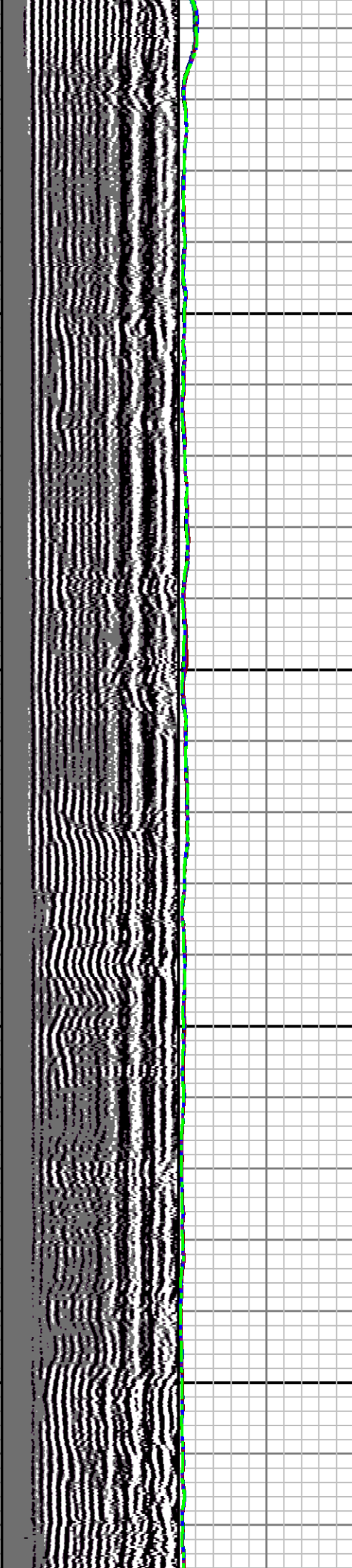




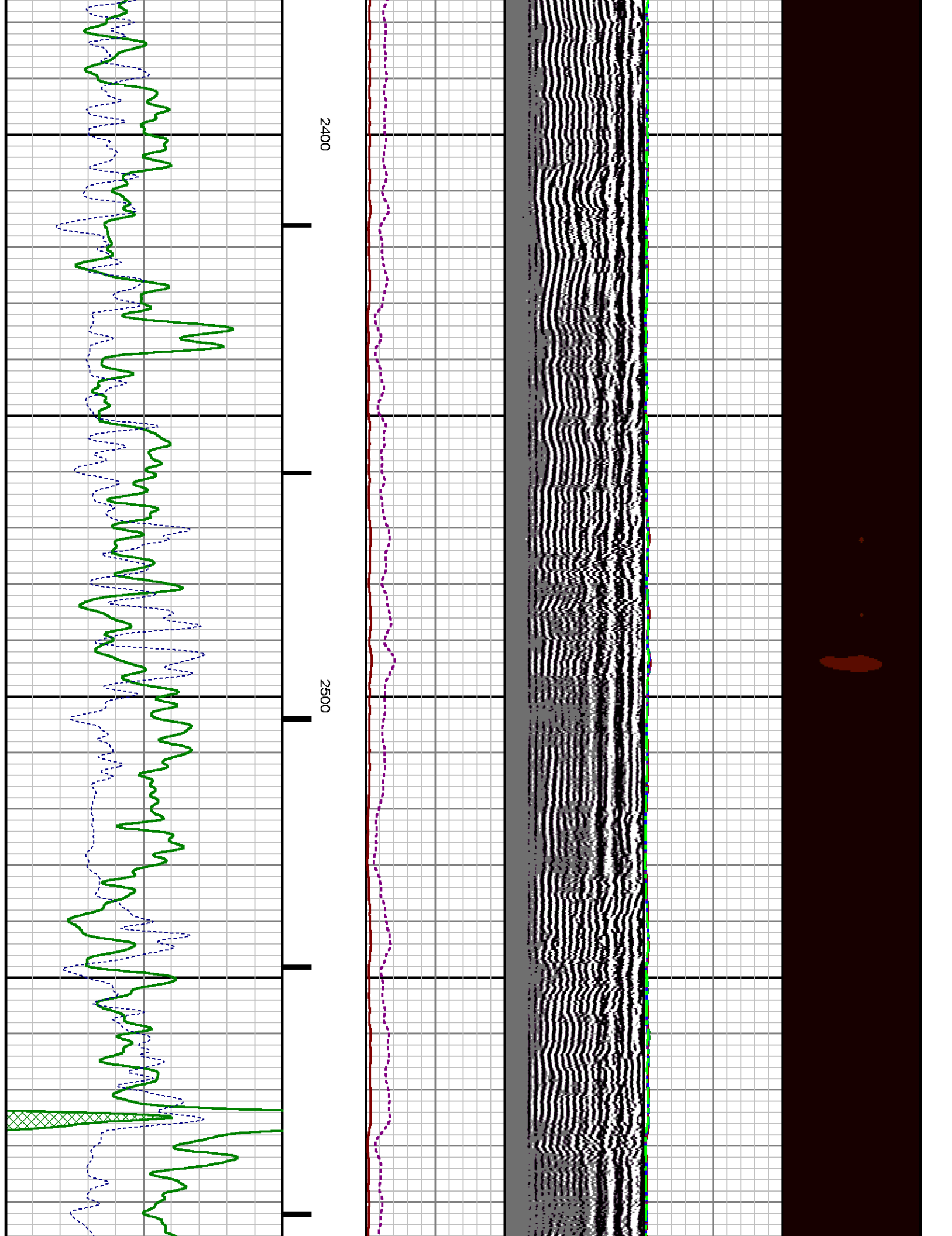


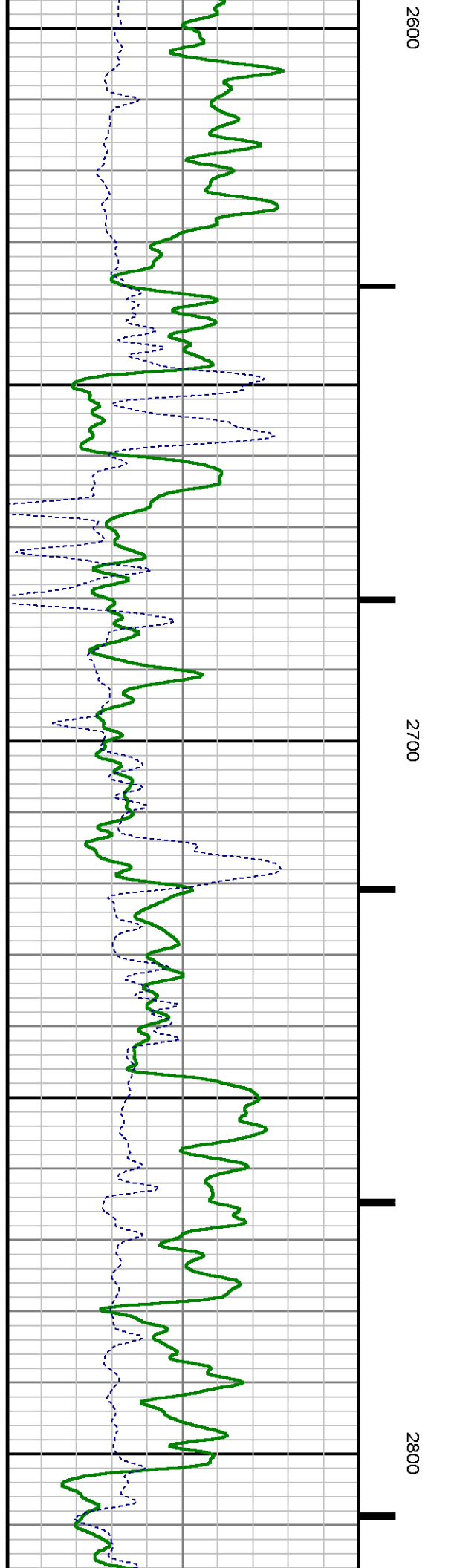
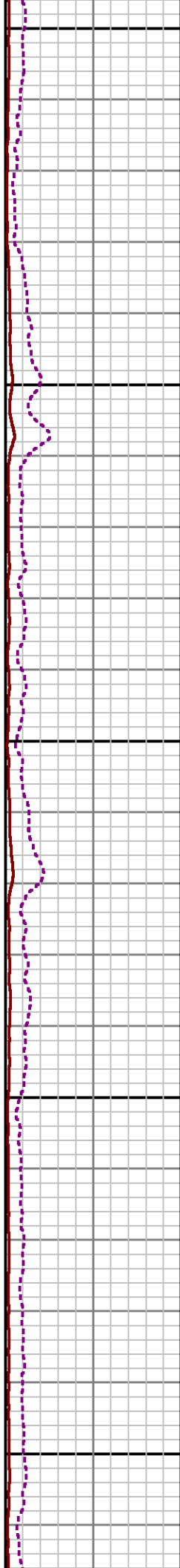
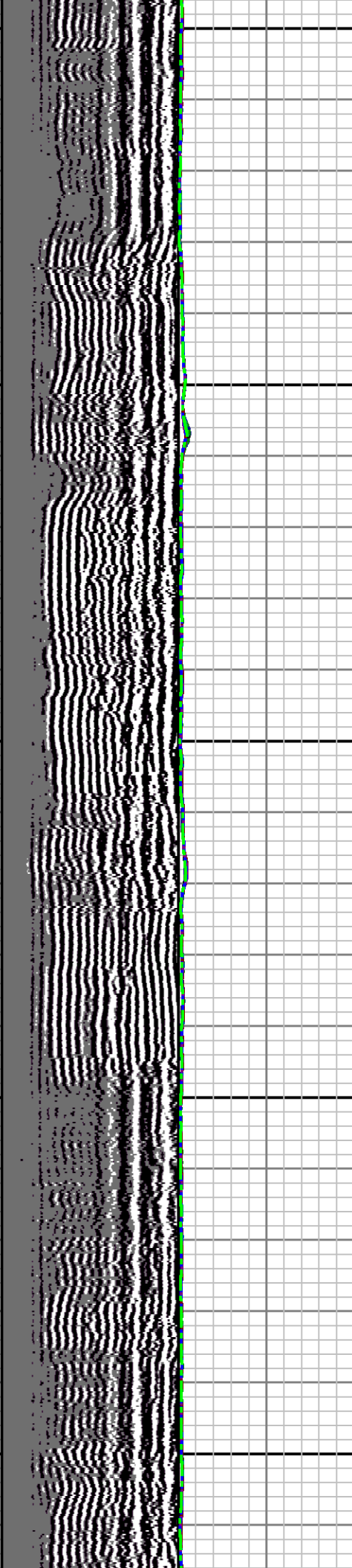
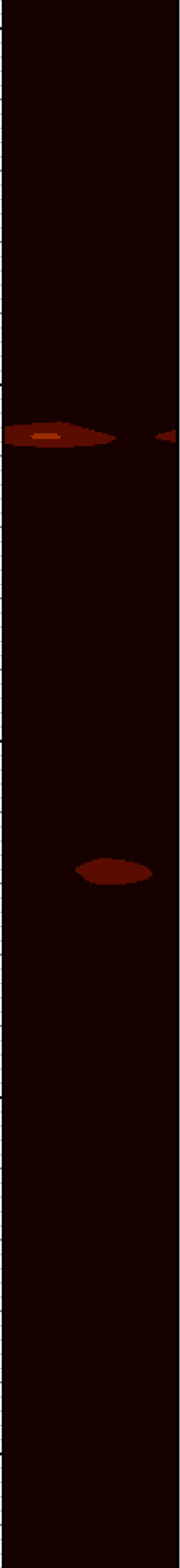


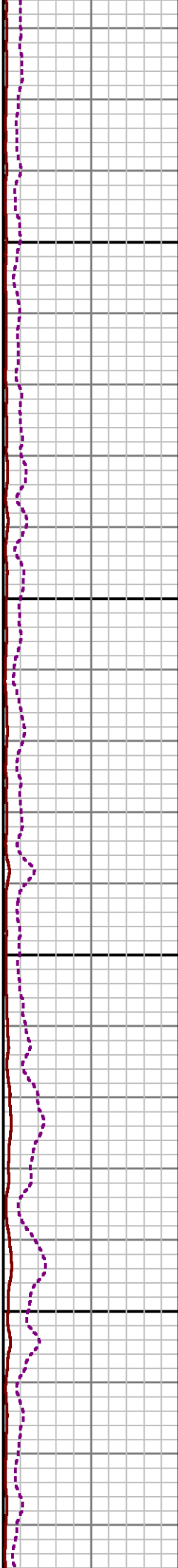
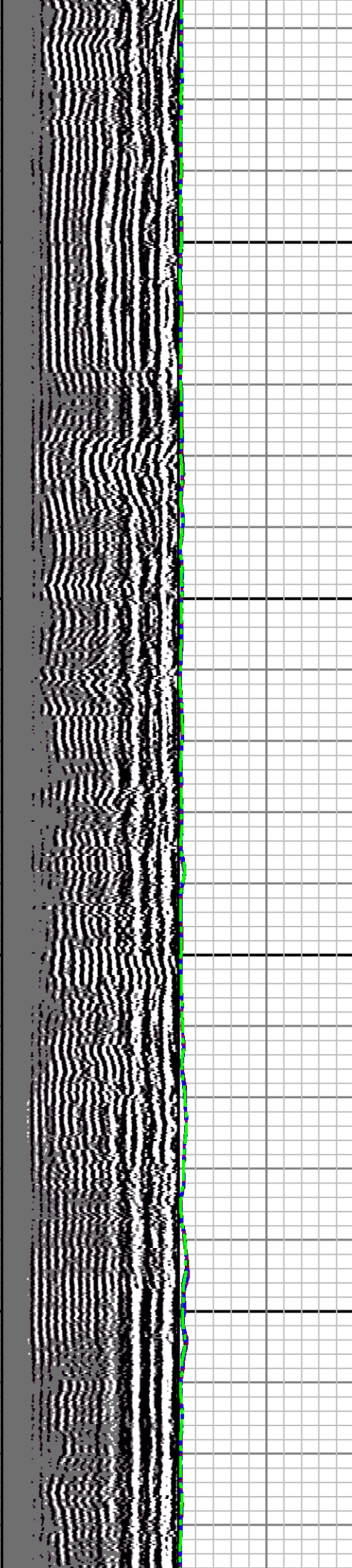






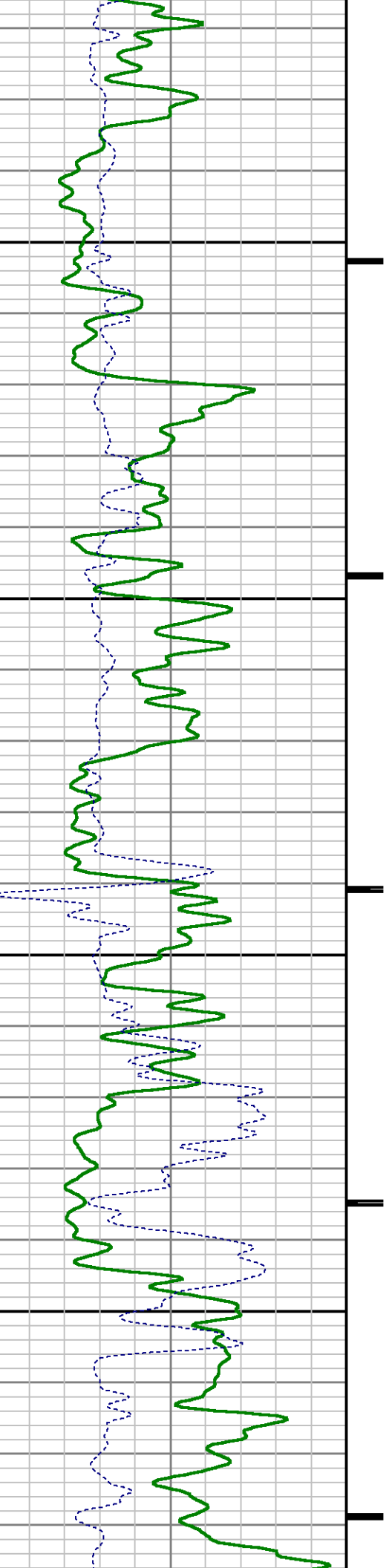


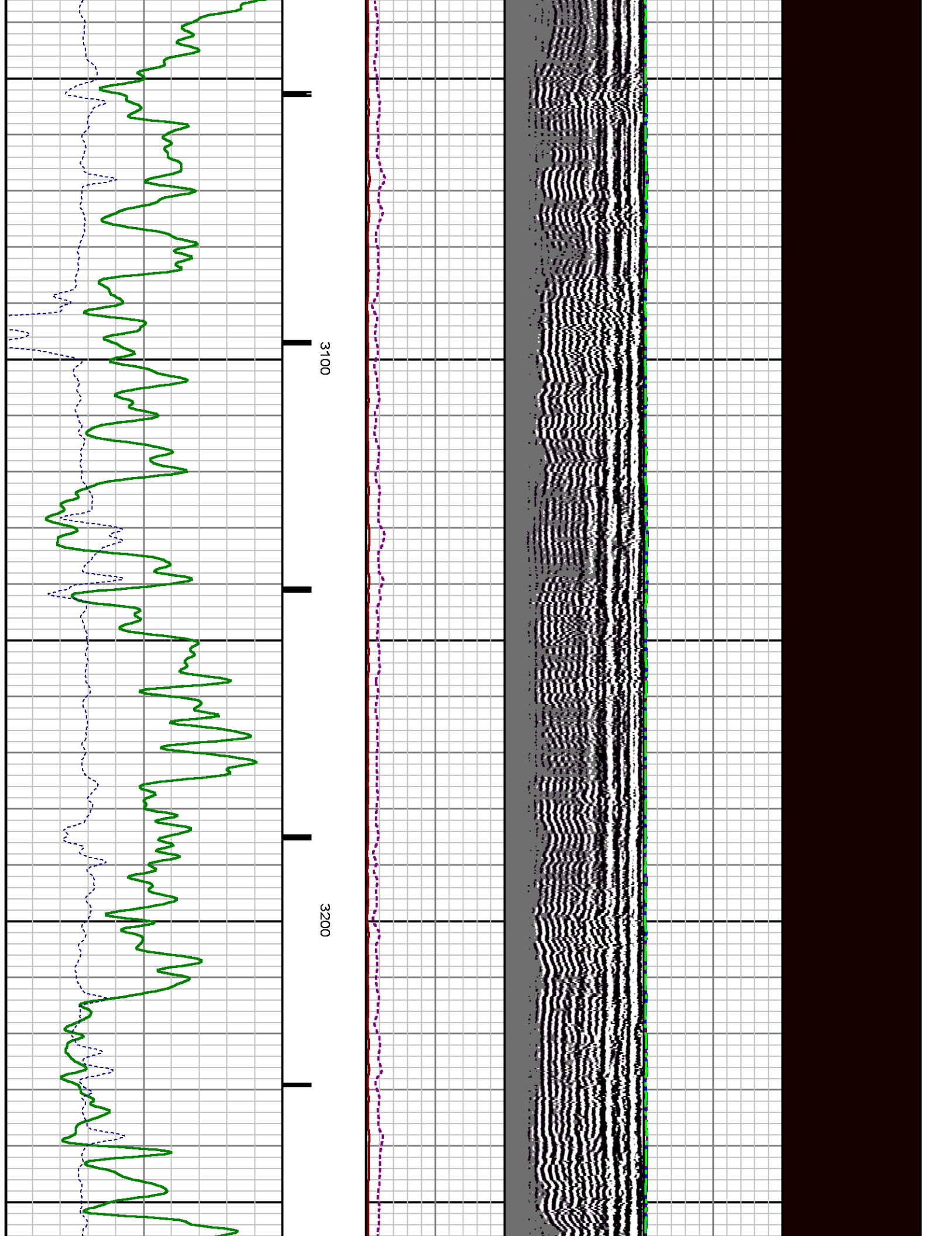


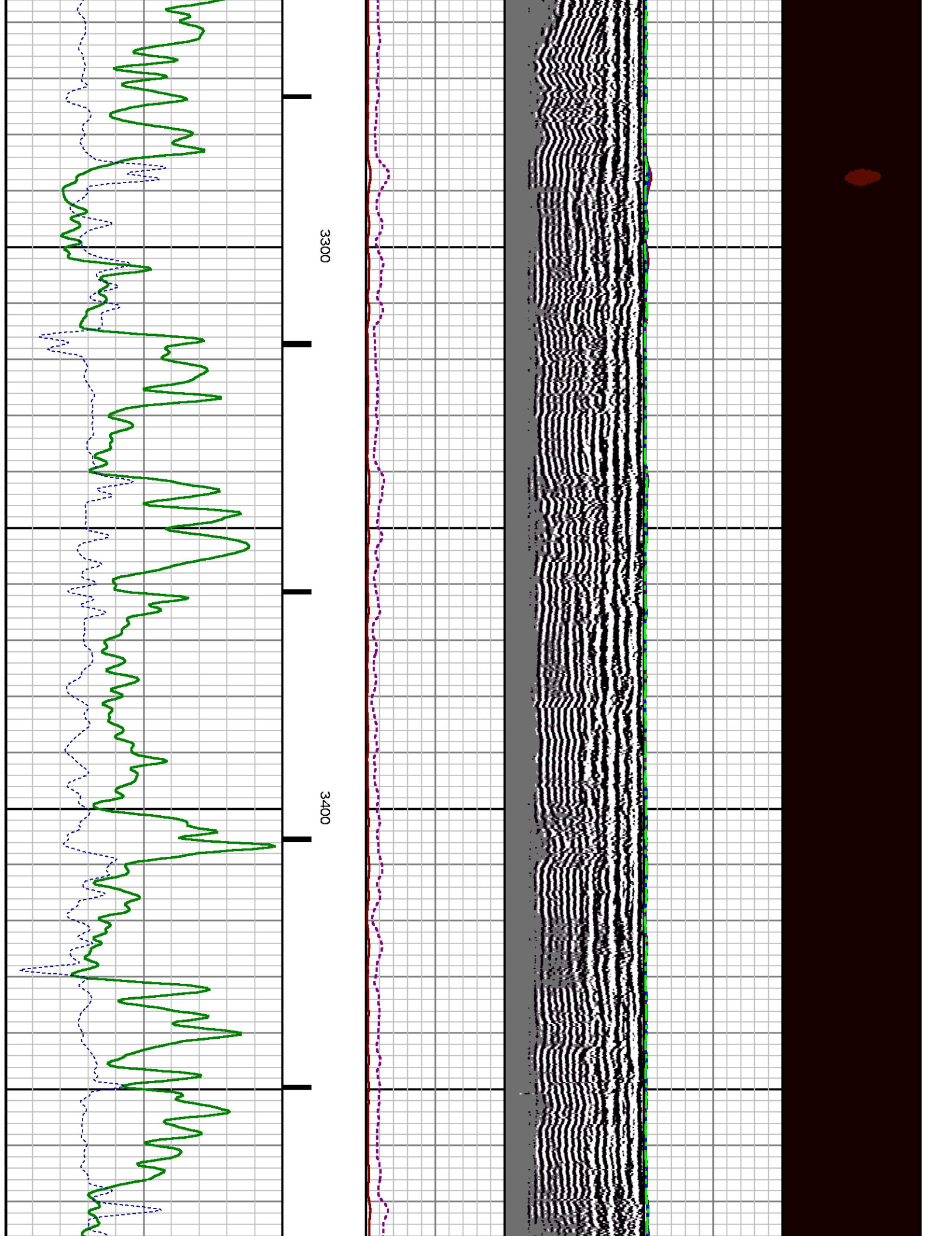


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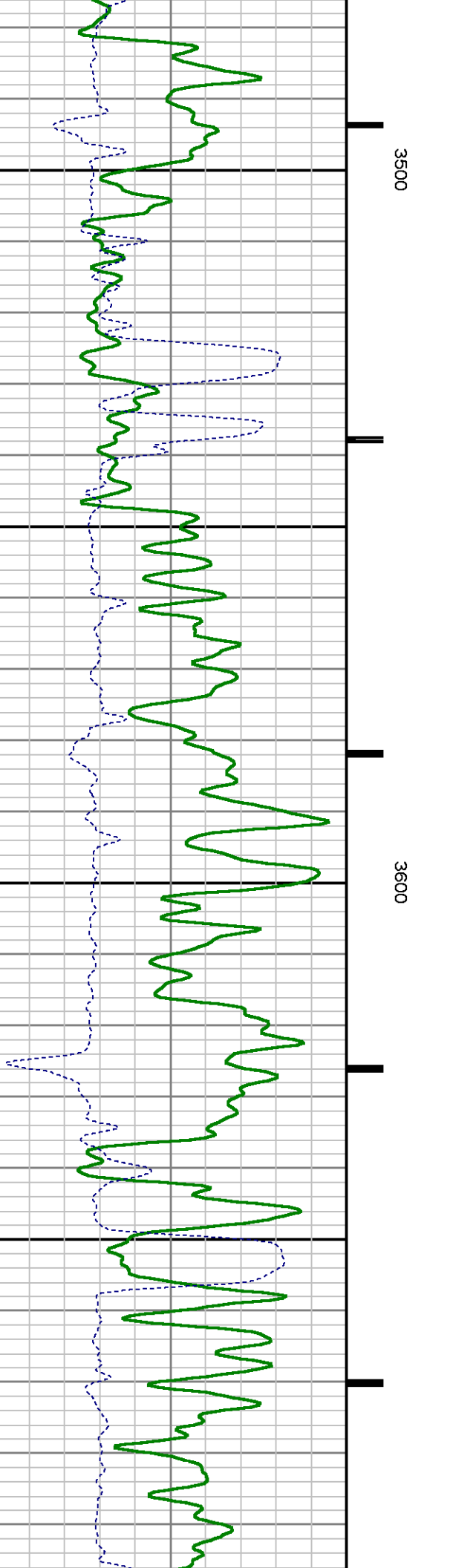
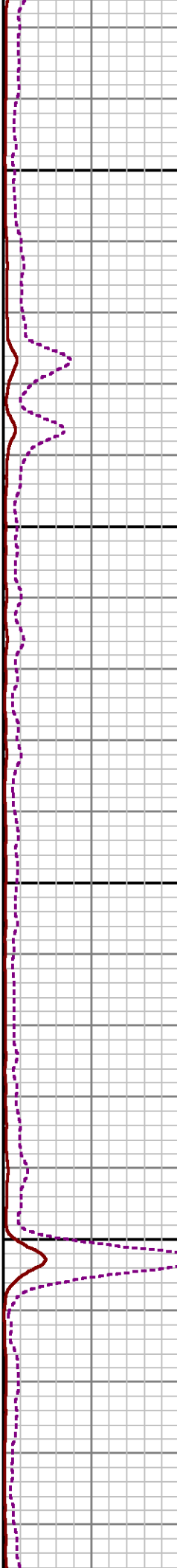
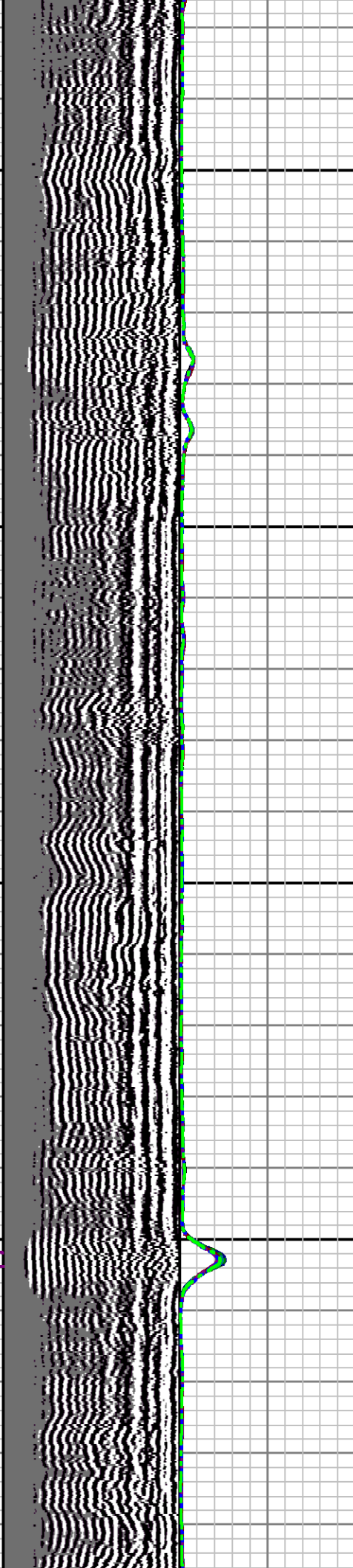
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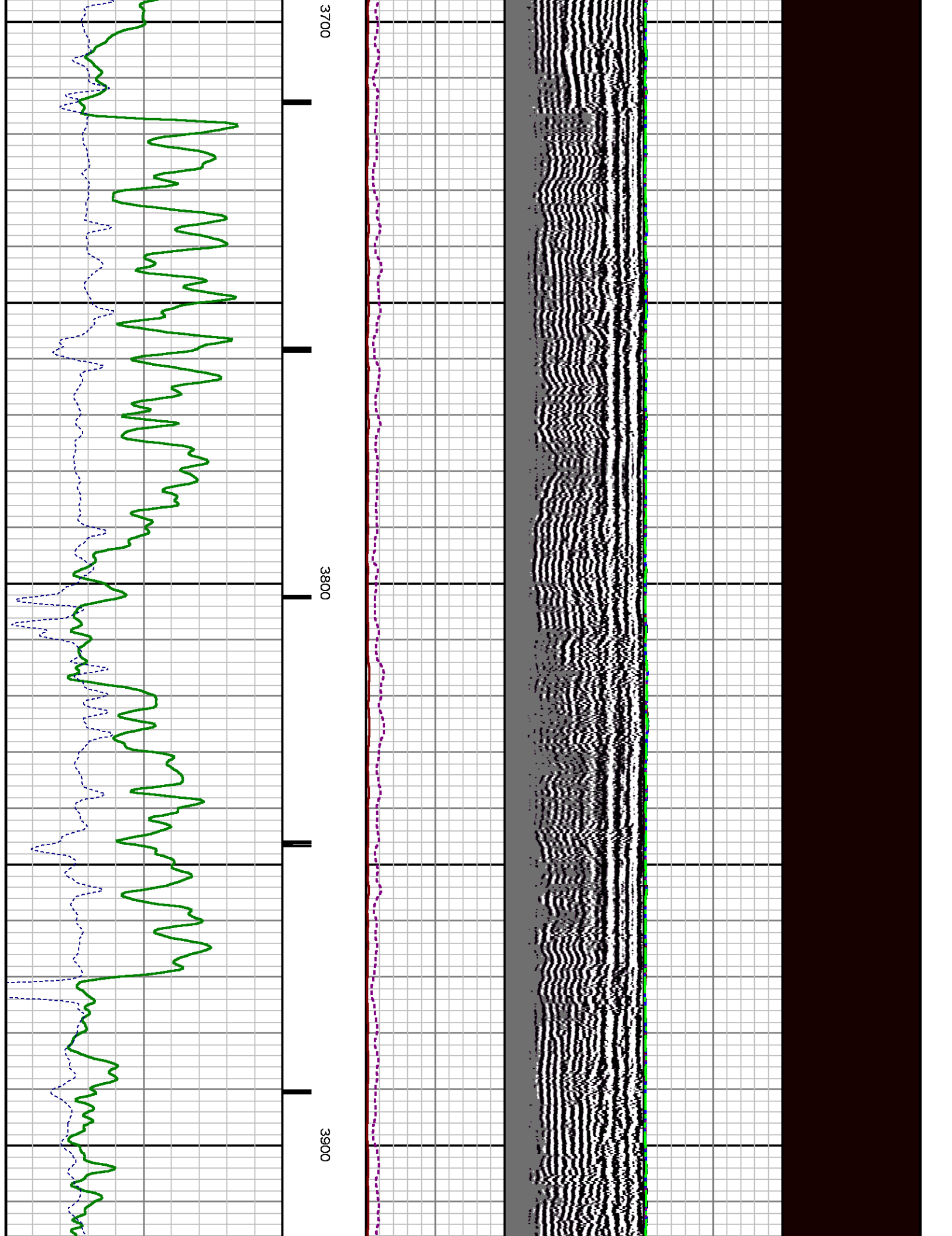


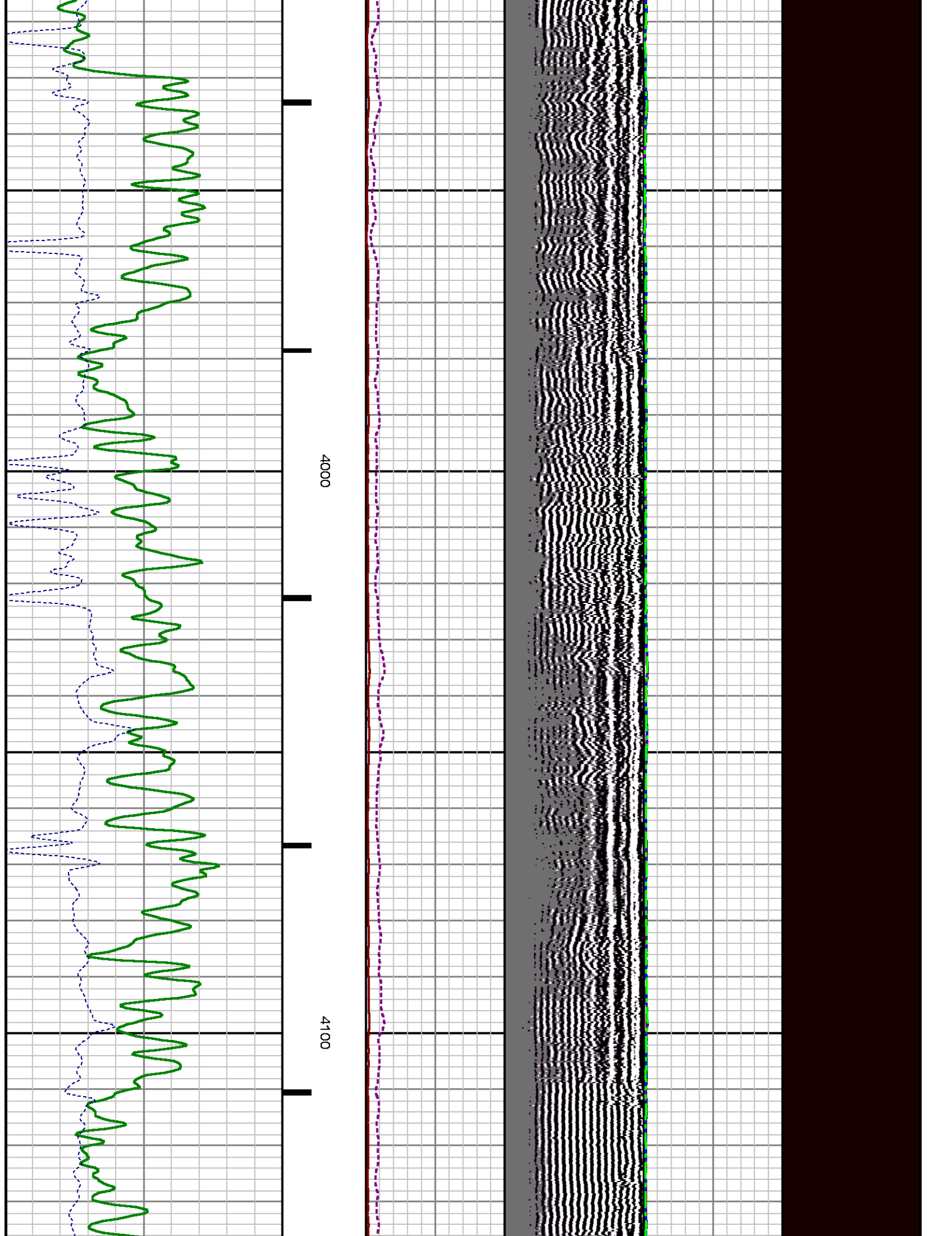


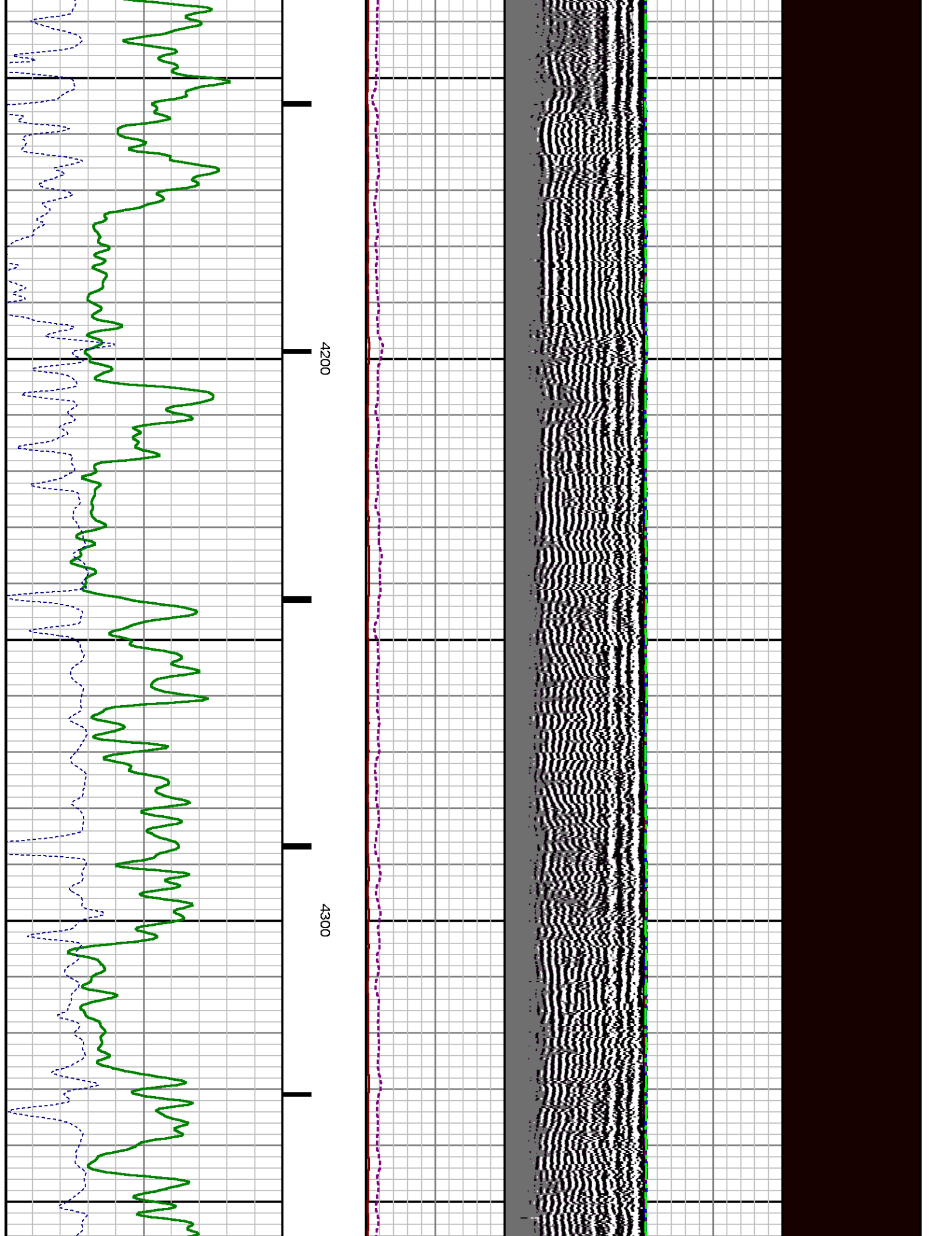


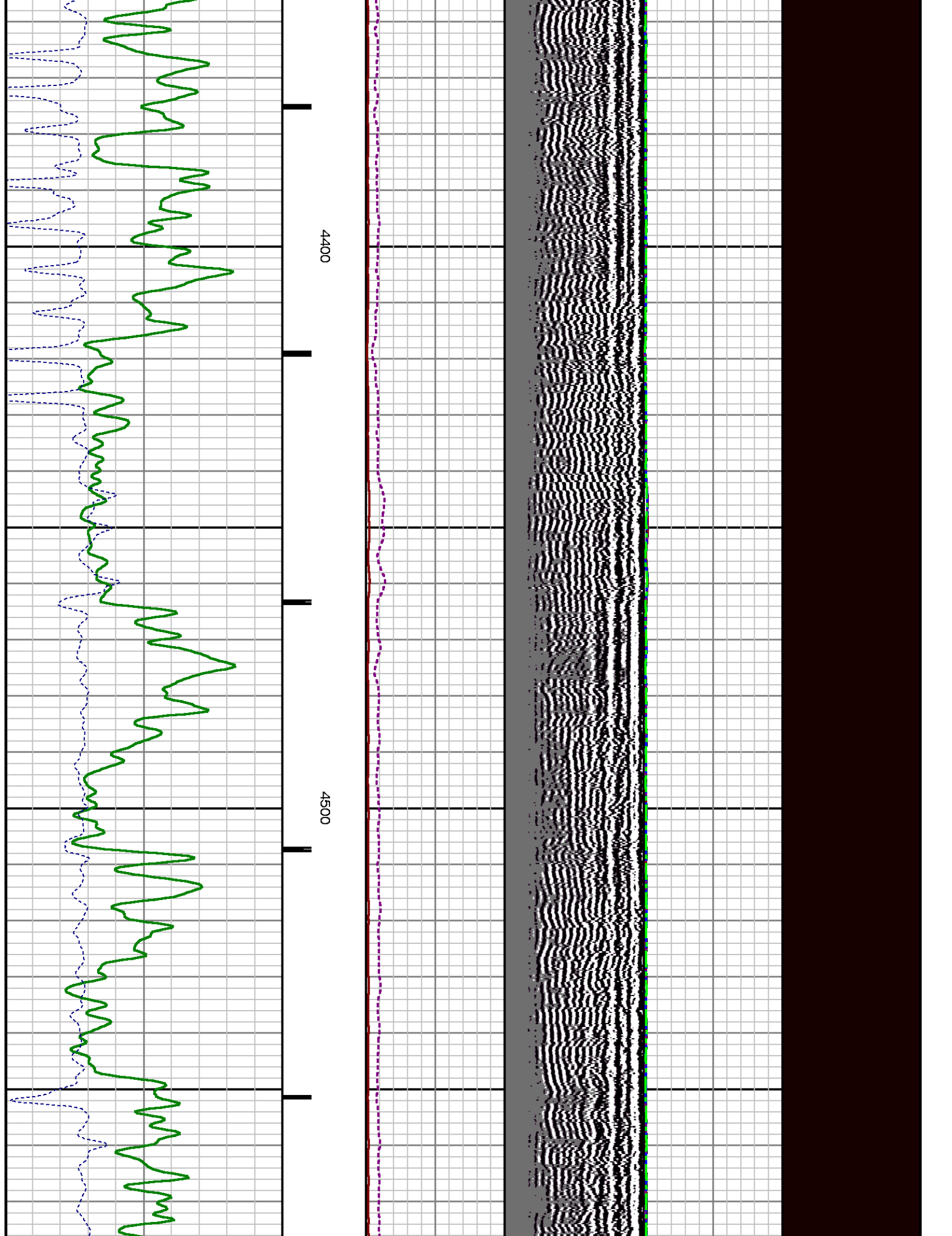




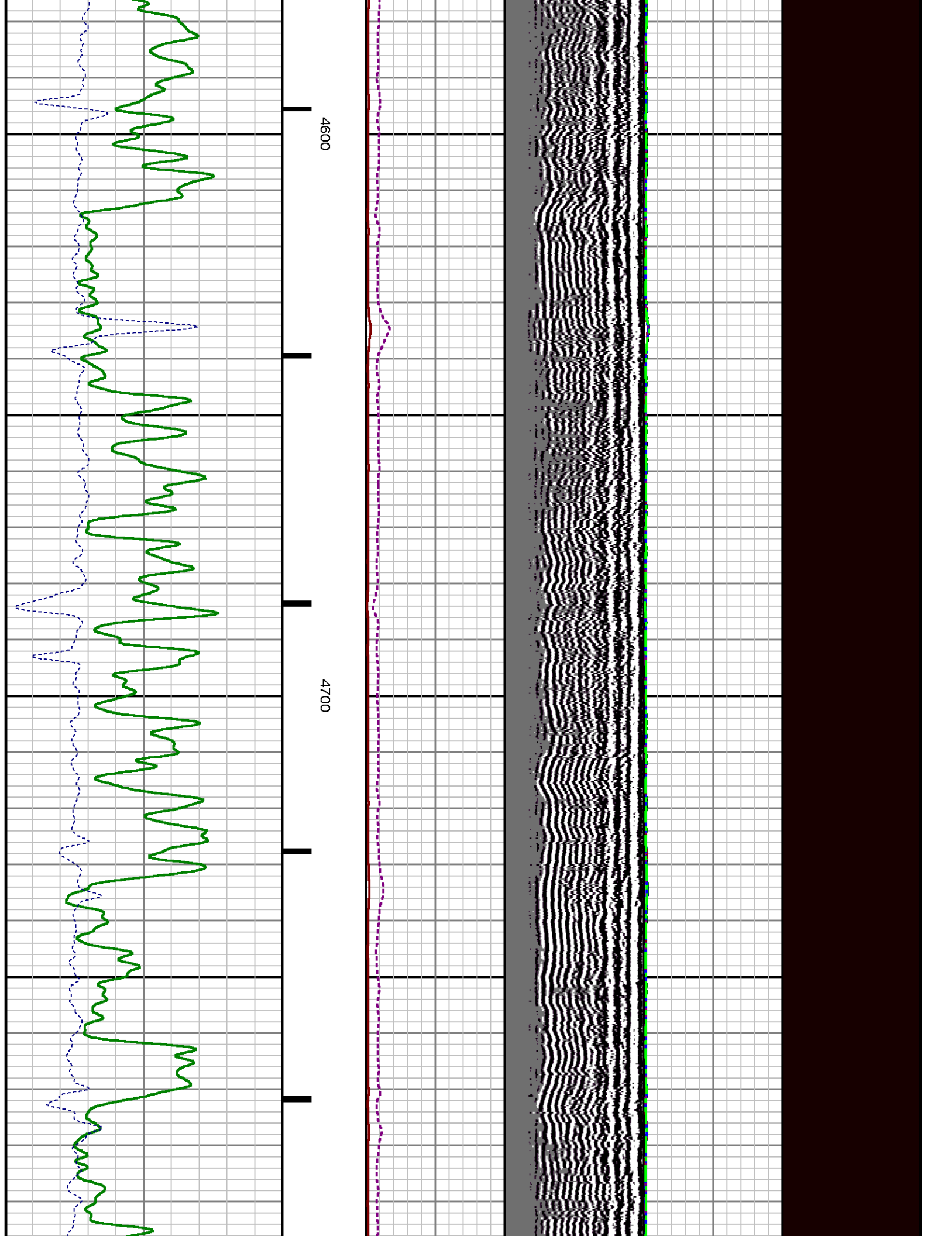


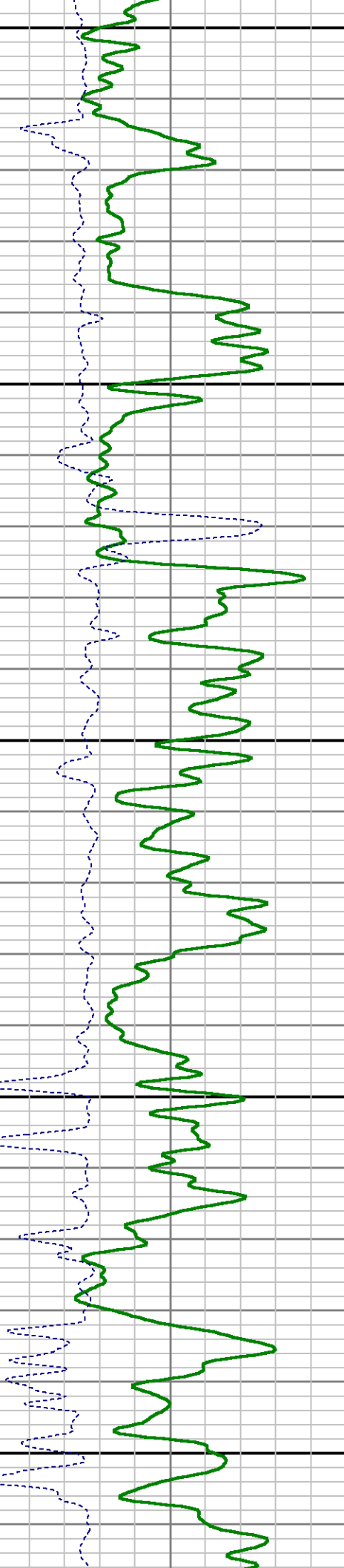
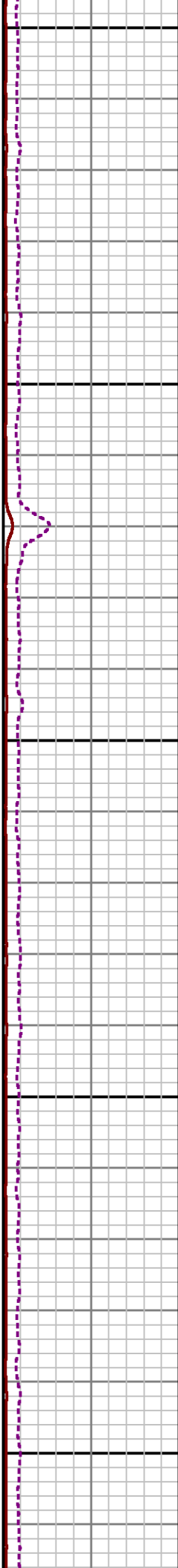
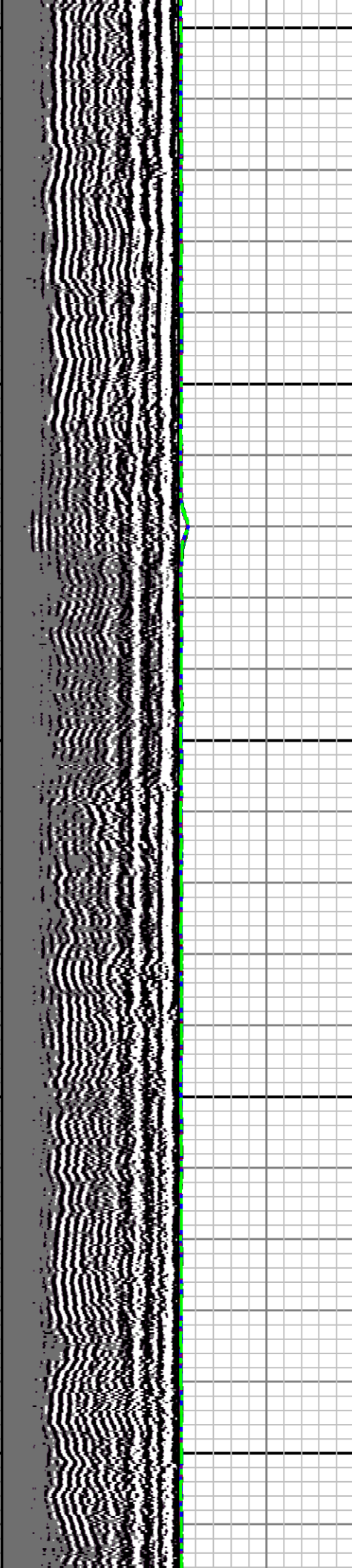


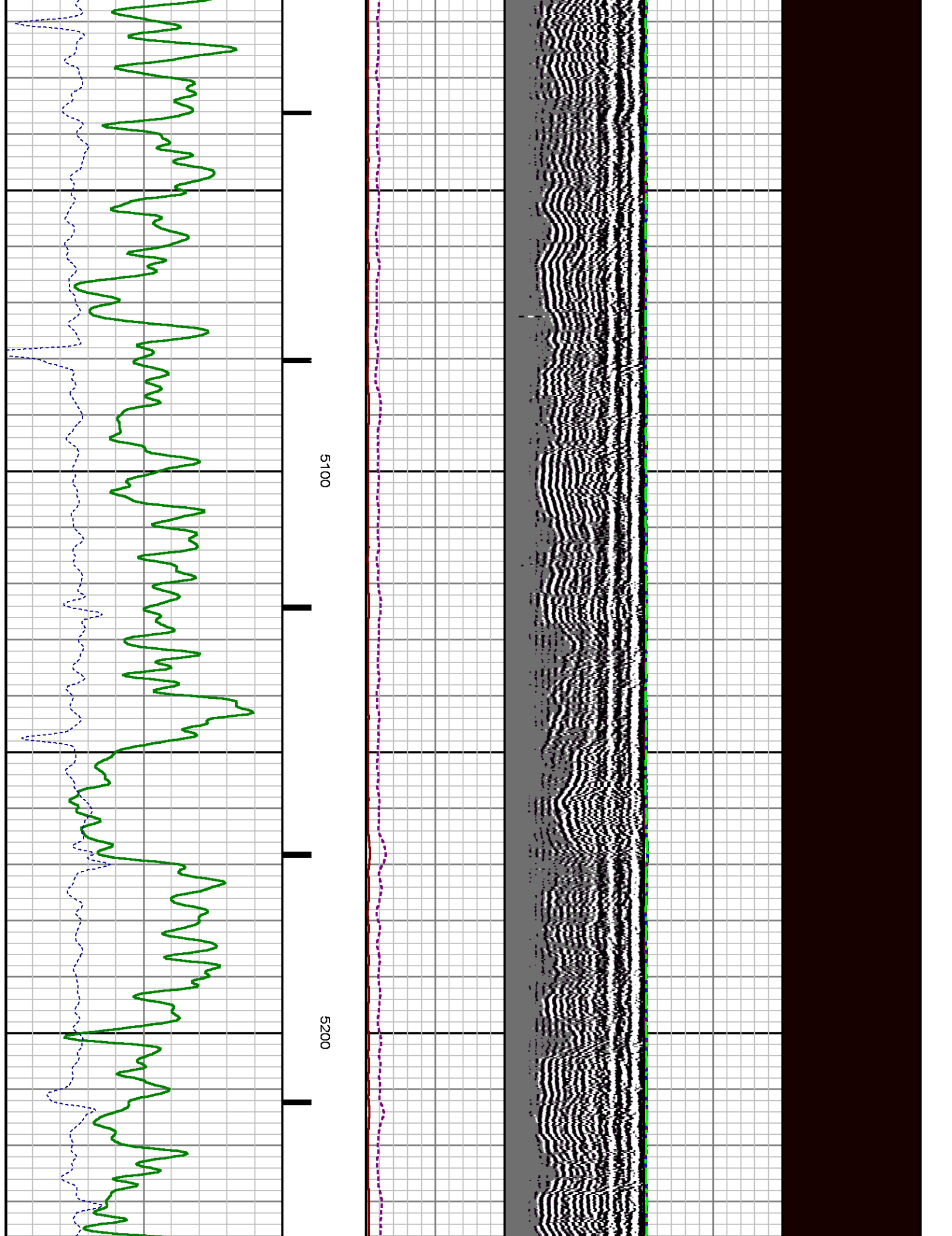


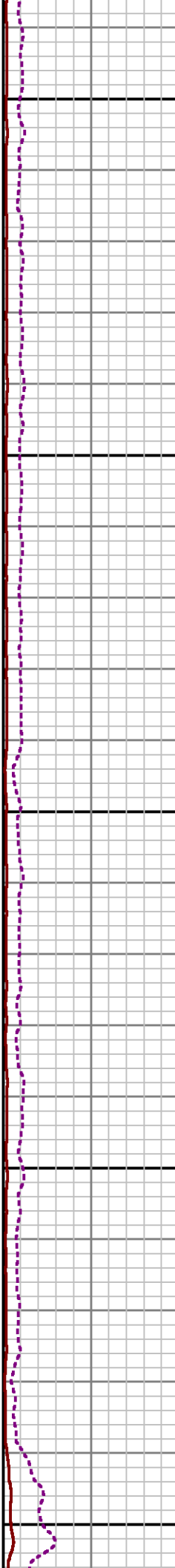
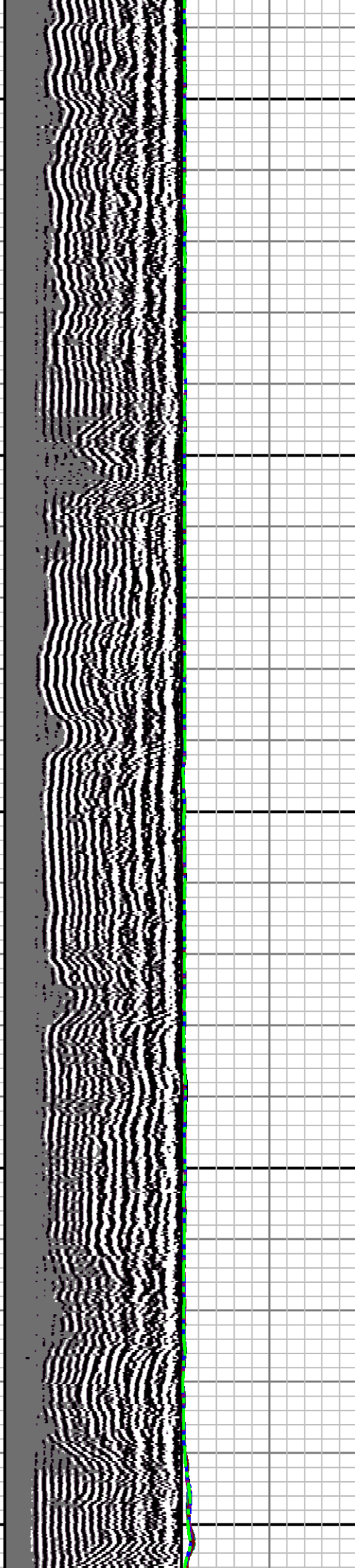






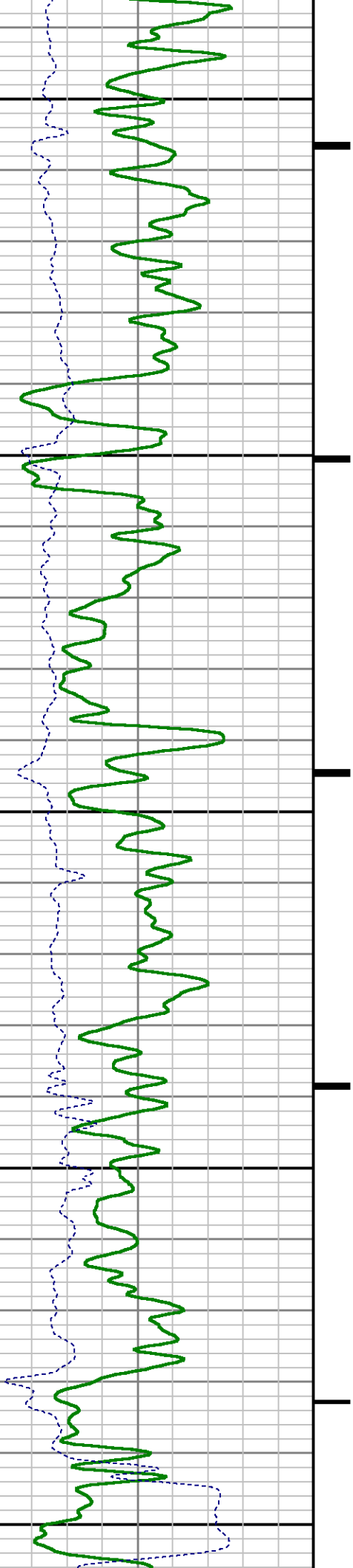


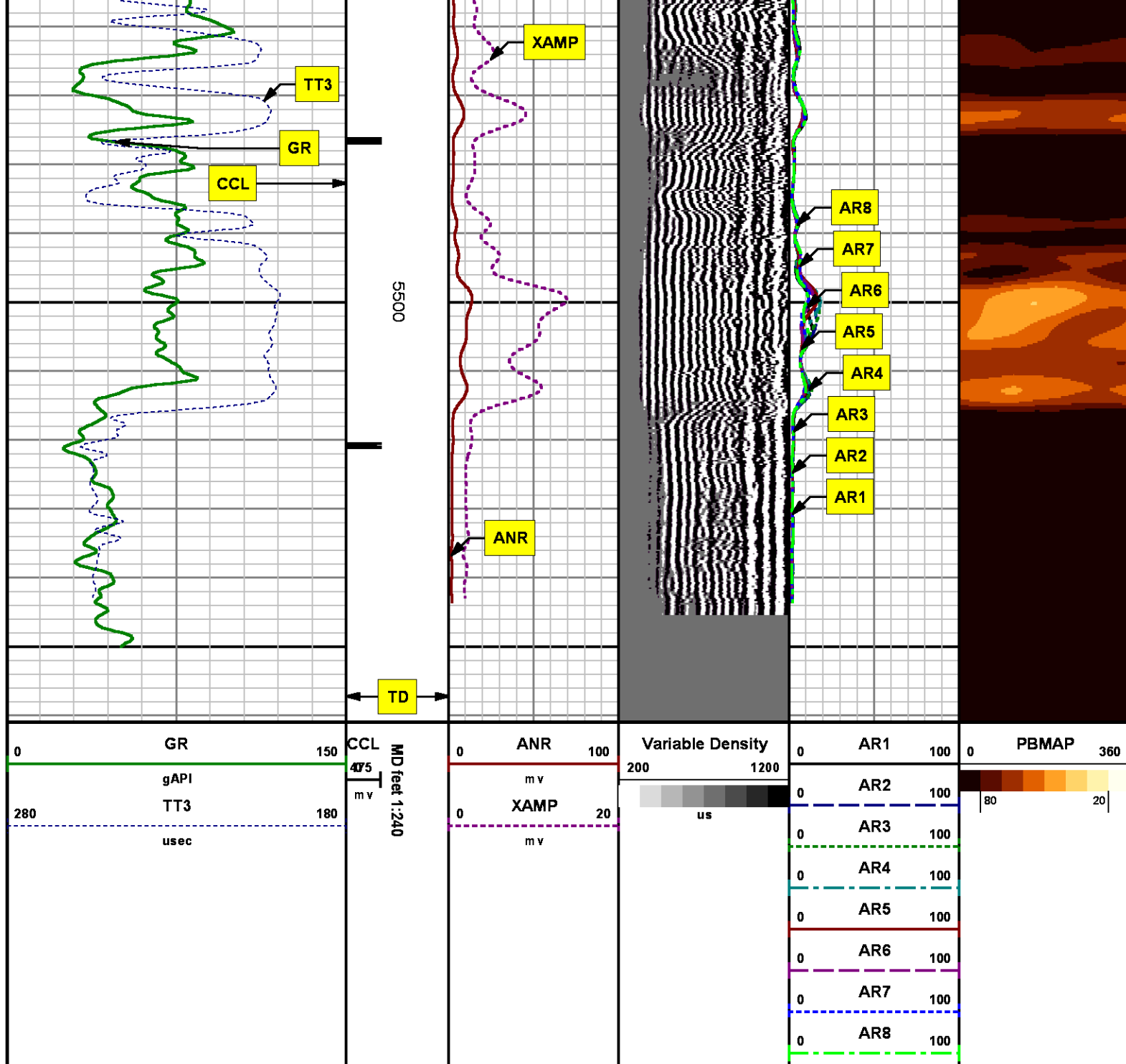




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REPEAT SECTION  
0 PSI



MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	5239.550	5559.800
RAL	Amp Gate Start Near	195.000	usec	5239.550	5559.800
RAL	Amp Gate Start Radial	195.000	usec	5239.550	5559.800
RAL	Amp Gate Width Far	25.000	usec	5239.550	5559.800
RAL	Amp Gate Width Near	25.000	usec	5239.550	5559.800
RAL	Amp Gate Width Radial	25.000	usec	5239.550	5559.800
RAL	casing od	4.500	inches	5239.550	5559.800
RAL	casing wt	11.600	lbm/ft	5239.550	5559.800
RAL	FB Start Far	291.900	usec	5239.550	5559.800
RAL	FB Start Near	180.000	usec	5239.550	5559.800
RAL	FB Start Radial	180.000	usec	5239.550	5559.800
RAL	FB Thresh Far	10.000	mV	5239.550	5559.800
RAL	FB Thresh Near	4.000	mV	5239.550	5559.800
RAL	FB Thresh Radial	4.000	mV	5239.550	5559.800
RAL	Fluid Travel Time	200.000	usec/ft	5239.550	5559.519

## 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

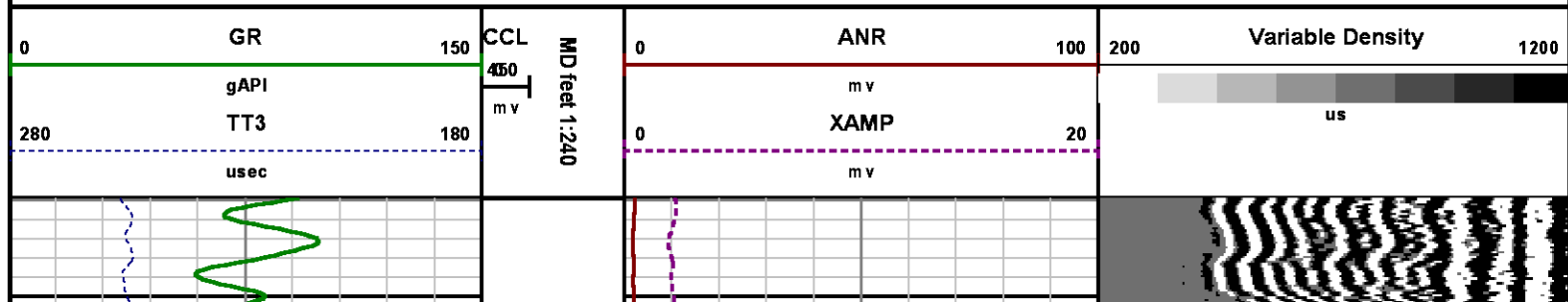
Well : BOSELY SG 414-22

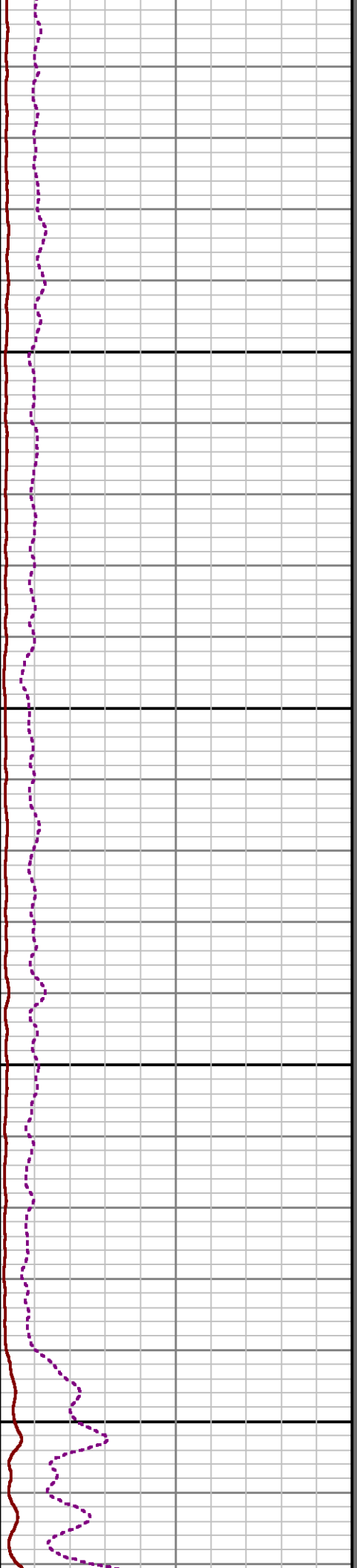
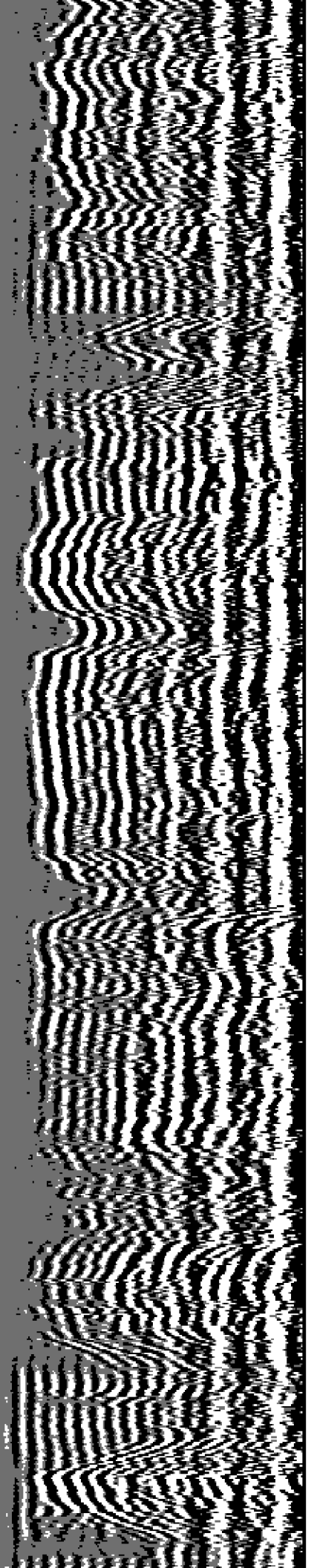
File Name : d:\welldata\wpx\sg 414-22\414ral\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 5239.80 - 5559.80 feet UP

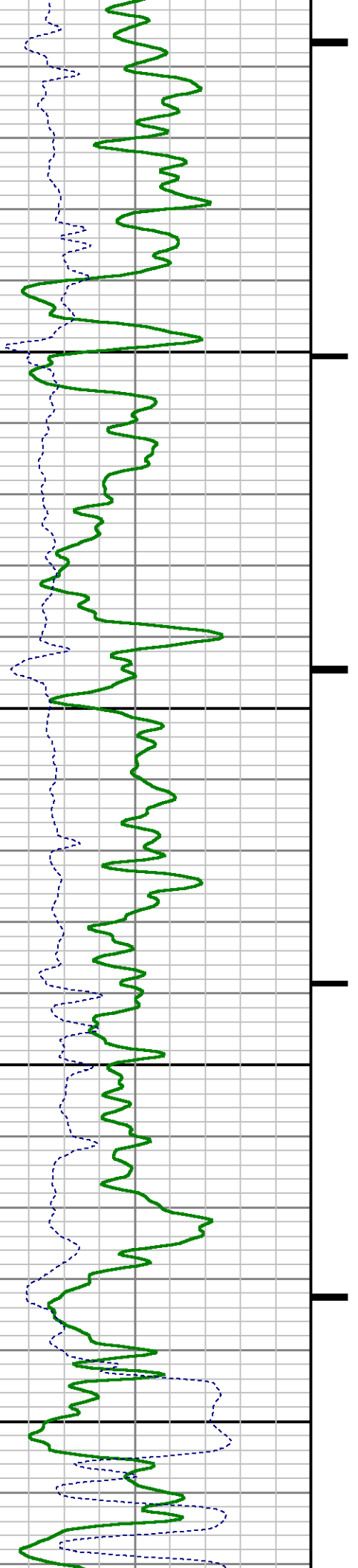
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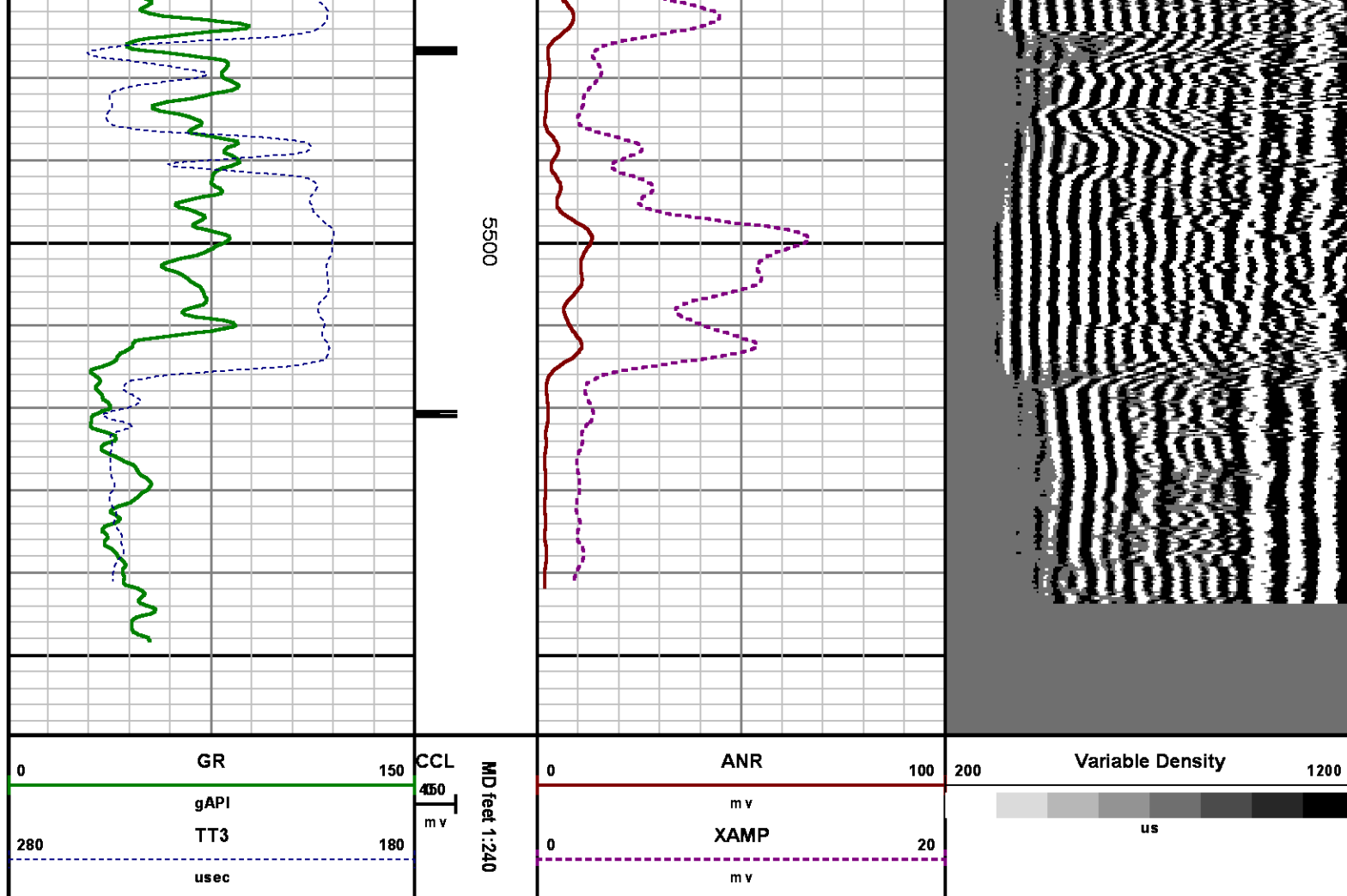




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## CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A7\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Apr 07 10:57:43 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: A7

Tool Delay [u sec] -55.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [u sec]	Amp. Gate Start [u sec]	Amp. Gate Width [u sec]	Zero Gate Start [u sec]	Zero Gate Width [u sec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	216	216	30	166	25	-0.226	100.00	0.15
3 Ft. Receiver	217	216	30	166	25	-0.272	100.00	0.15
5 Ft. Receiver	326	325	30	230	25	0.491	150.00	0.29
Radial #1	217	216	30	166	25	-1.033	100.00	0.15

Radial #2	216	216	30	166	25	-0.573	100.00	0.15
Radial #3	216	216	30	166	25	-0.513	100.00	0.15
Radial #4	217	216	30	166	25	-0.546	100.00	0.15
Radial #5	217	216	30	166	25	-0.182	100.00	0.15
Radial #6	217	216	30	166	25	-0.094	100.00	0.15
Radial #7	217	216	30	166	25	-0.590	100.00	0.15
Radial #8	218	216	30	166	25	-0.583	100.00	0.15

## RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A7\_fid.cal

### WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Apr 07 11:00:09 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: A7

Tool Delay [usec] -55.00 Casing OD in 4.50 Casing Wt lbm/ft 11.60 Casing ID in 4.00

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.090	0.000	1.02	100.000
3 Ft. Receiver	195	25	-1.035			
5 Ft. Receiver	305	25	-2.456			
Radial #1	195	25	-1.890			
Radial #2	195	25	-1.606			
Radial #3	195	25	-1.325			
Radial #4	195	25	-1.442			
Radial #5	195	25	-1.210			
Radial #6	195	25	-1.197			
Radial #7	195	25	-0.878			
Radial #8	195	25	-1.094			

## GAMMA RAY

Calibration File: C:\case\calver\GR\456A3.cal

### CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 03 13:37:28 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	76.84	356.71	0.661	50.80	235.80	185.00

Verification File: C:\case\calver\GR\456A3.VP

### PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Apr 03 13:37:28 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: A3

DATE/TIME PERFORMED: Thu Apr 03 13:38:35 2014

TOOL SERIES:

2459XA

ASSET:

456

SEQ:

A3

Calibrator #

Background

Calibrator On

Multiplicative

Background

Calibrator On

Differential

[cps]

[cps]

[api]

[api]

[api]

S2K WA612

80.98

351.78

0.661

53.53

232.54

179.01

## TOOL DIAGRAM

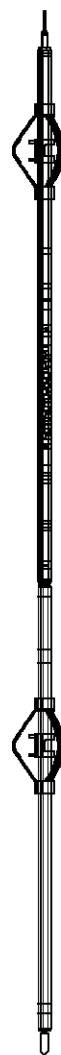
### OTA SHORT CABLE HEAD

### 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



21.81'

XMIT 15.62'

NEAR RCVR 12.54'

FAR RCVR 10.62'

CCL 8.92'

GR 7.06'

NEU 1.67'

0.00'

Total Length: 21.81'

Total Weight: Not Available

Max Diameter: 0' 2.75"



Company  
 Well  
 Field

WPX ENERGY  
 BOSELY SG 414-22  
 GRAND VALLEY

File No:

CH084680

API No:



Baker Atlas

CASE

County	GARFIELD	State	COLORADO	05045221260000
Location		Elevations		
SHL: 609' FSL & 1545' FWL		KB 5872 ft		22 7S 96W
BHL: 208' FSL & 299' FWL (SWSW)		DF		SG 24-22 PAD
		GL 5248 ft		H&P 318
SEC	22	TWP	7S	RGE 96W