



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH089580 HICKS PA 333-6

API No: PARACHUTE

05045224080000 GARFIELD State COLORADO

## Location

SHL: 815' FSL & 2245' FWL

BHL: 2131' FSL & 1684' FEL (NWSE)

SEC 6 TWP 7S RGE 9SW

## Other Services

RPM

Permanent Datum GL Elevation 5135 ft

Log Measured From KB 25 ft Above P. D.

Drill Measured From KELLY BUSHING

Elevations

KB 5160 ft

DF

GL 5135 ft

Date 19/AUG/14

Run ONE

Service Order USC089580J

Depth Driller 6953 ft

Depth Logger 6858 ft

Bottom Logged Interval 6848 ft

Top Logged Interval 25 ft

Time Started 0600

Time Finished 0900

Operator Rig Time 3 HRS

Type of Fluid in Hole WATER

Fluid Density NA

Salinity NA

Fluid Level 63 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 65 fpm

Maximum Recorded Temperature 209 degF

Reference Log NONE

Reference Log Date NA

Equipment No. 4271 Location GRAND JCT

Recorded By FLOYD RENEAU

Witnessed By JUSTIN 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	25 ft	1059 ft
8.75 in	1059 ft	6953 ft

## Casing Record

Size	Weight	Grade	From	To
9.625 in			25 ft	1059 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	6953 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 3 feet.

Logged with zero PSI at wellhead.

BHT = 209°F

SJ = 3399'-3419'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	1355XA	11871510	CENT

PRIMARY PRESENTATION  
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	24.375	6861.000
RAL	Amp Gate Start Near	195.000	usec	24.375	6861.000
RAL	Amp Gate Start Radial	195.000	usec	24.375	6861.000
RAL	Amp Gate Width Far	25.000	usec	24.375	6861.000
RAL	Amp Gate Width Near	25.000	usec	24.375	6861.000
RAL	Amp Gate Width Radial	25.000	usec	24.375	6861.000
RAL	casing od	4.500	inches	24.375	6861.000
RAL	casing wt	11.600	lbm/ft	24.375	6861.000
RAL	FB Start Far	291.900	usec	24.375	6861.000
RAL	FB Start Near	180.000	usec	24.375	6861.000
RAL	FB Start Radial	180.000	usec	24.375	6861.000
RAL	FB Thresh Far	10.000	mv	24.375	6861.000
RAL	FB Thresh Near	4.000	mv	24.375	6861.000
RAL	FB Thresh Radial	4.000	mv	24.375	6861.000
RAL	Fluid Travel Time	200.000	usec/ft	24.375	6861.843

DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

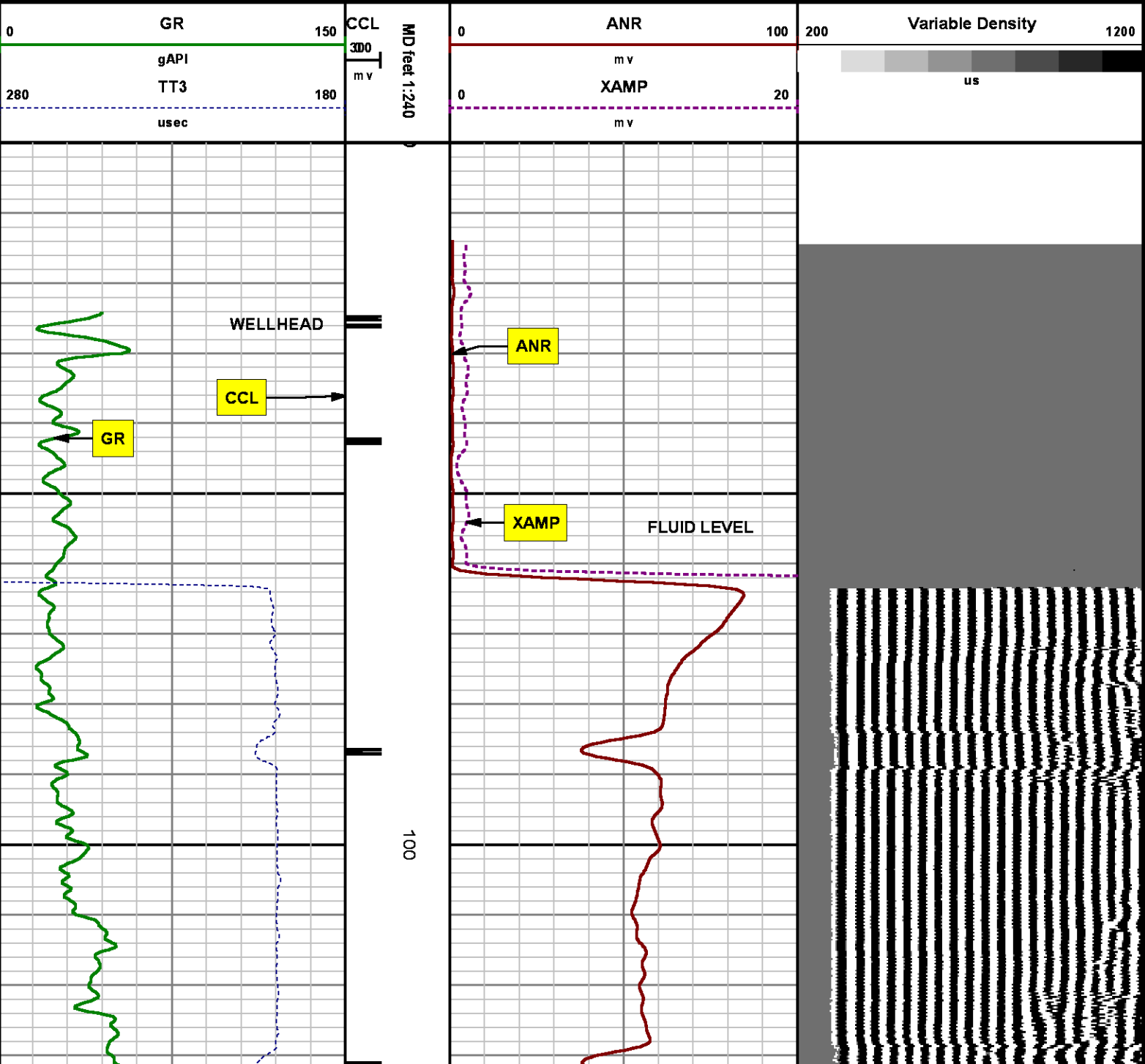
Well : HICKS PA 333-6

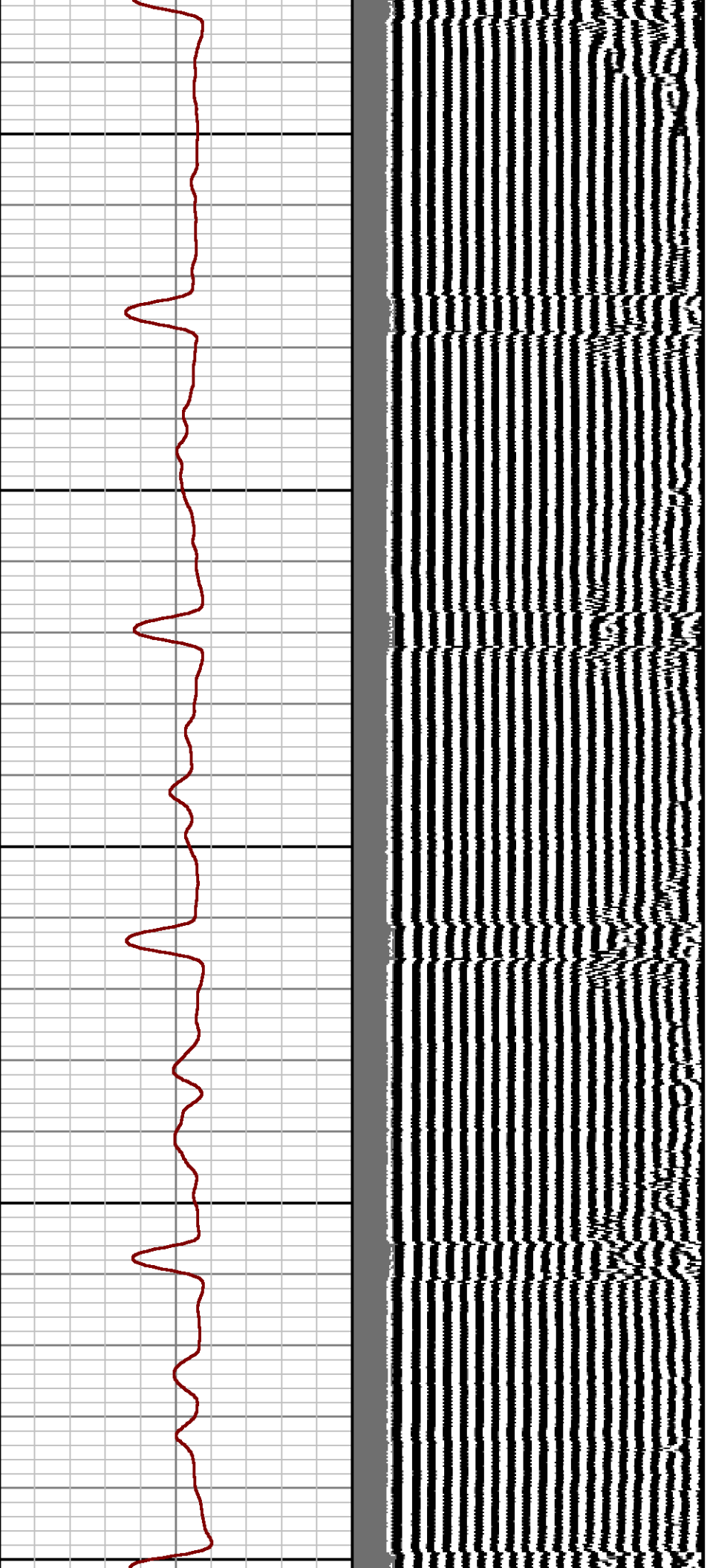
File Name : d:\welldata\wpx\pa 333-6\ral333\main.xtf

Mode : PlotMgr 5.4.504

Interval : 0.00 - 6865.00 feet UP

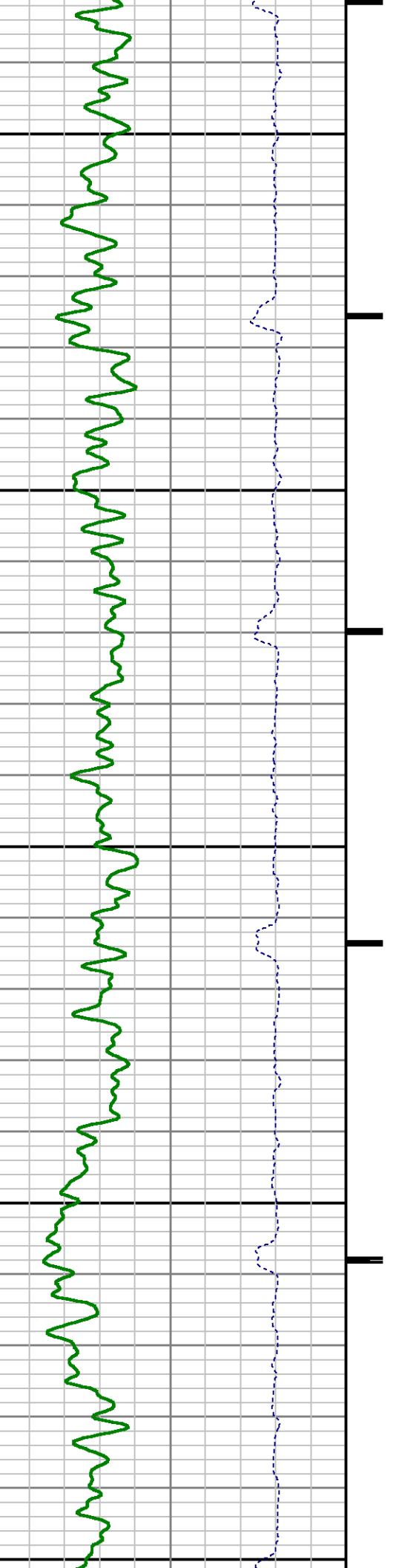
Created : 8/19/2014 9:34:49 AM

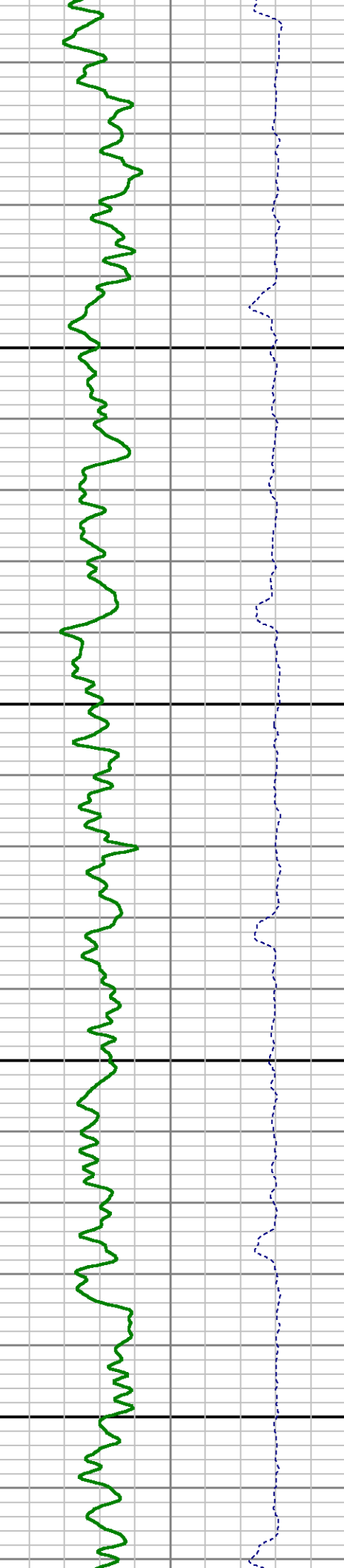
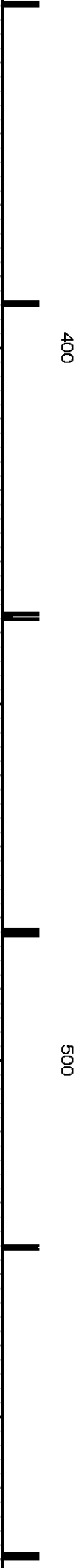
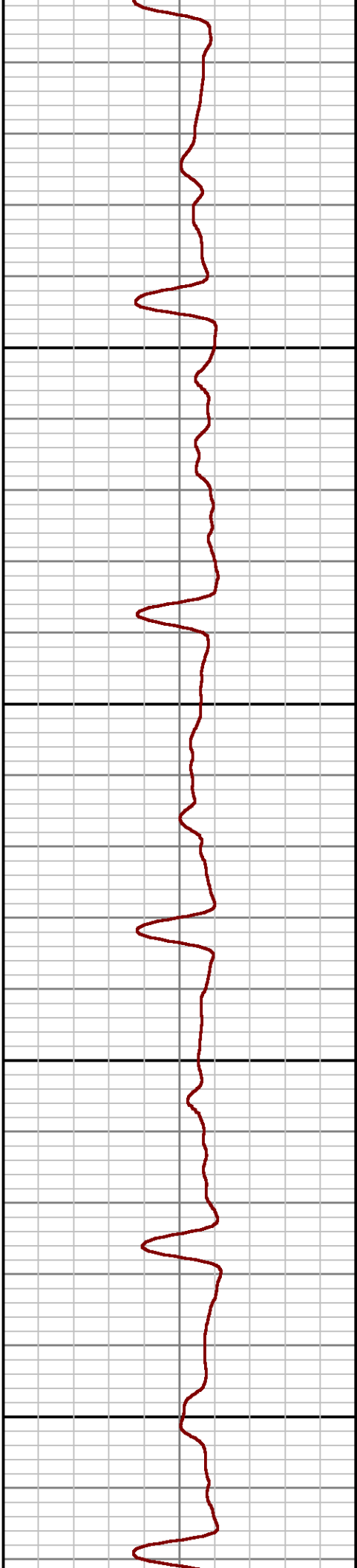
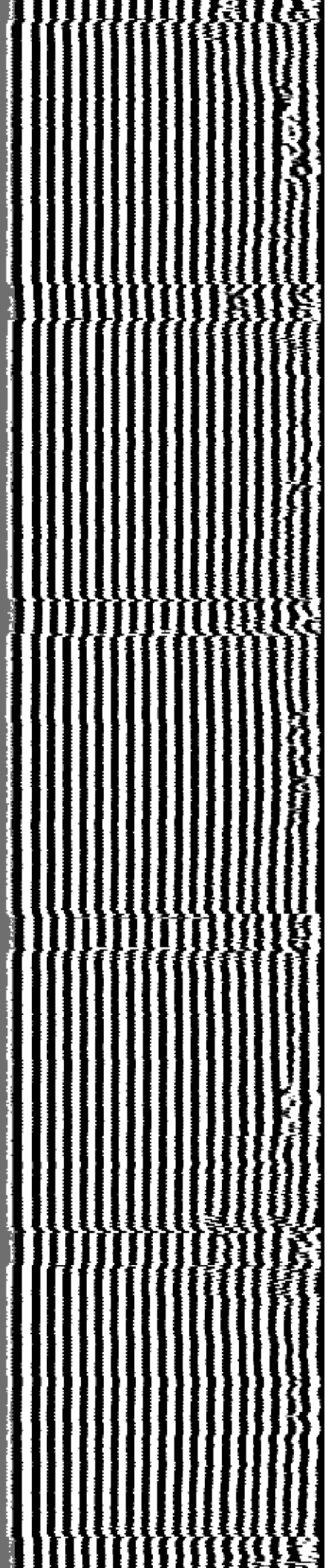


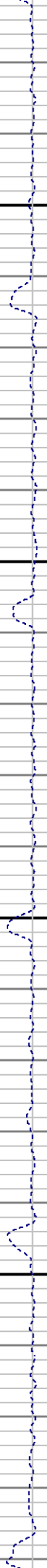
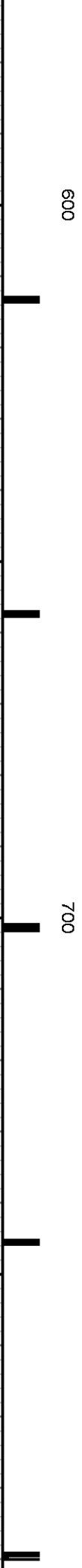
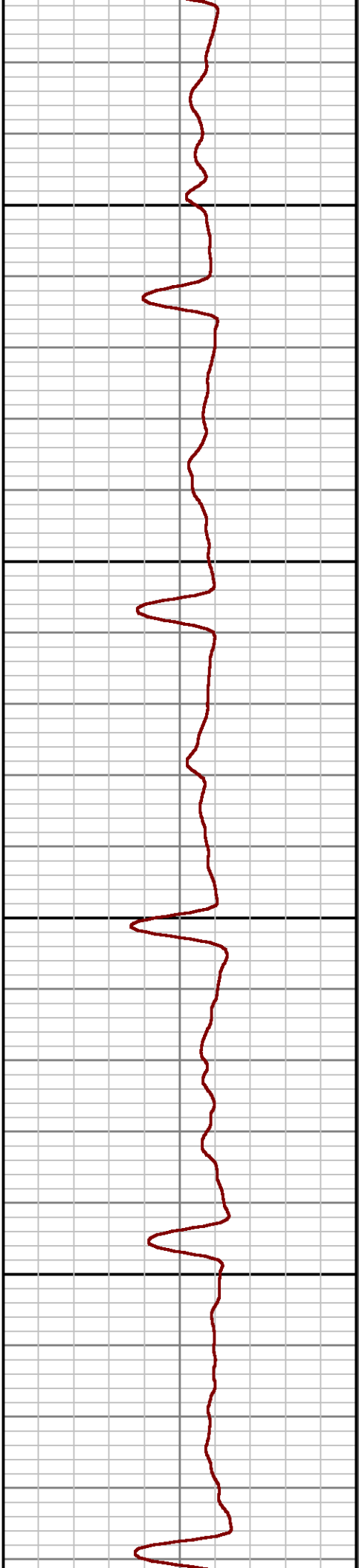
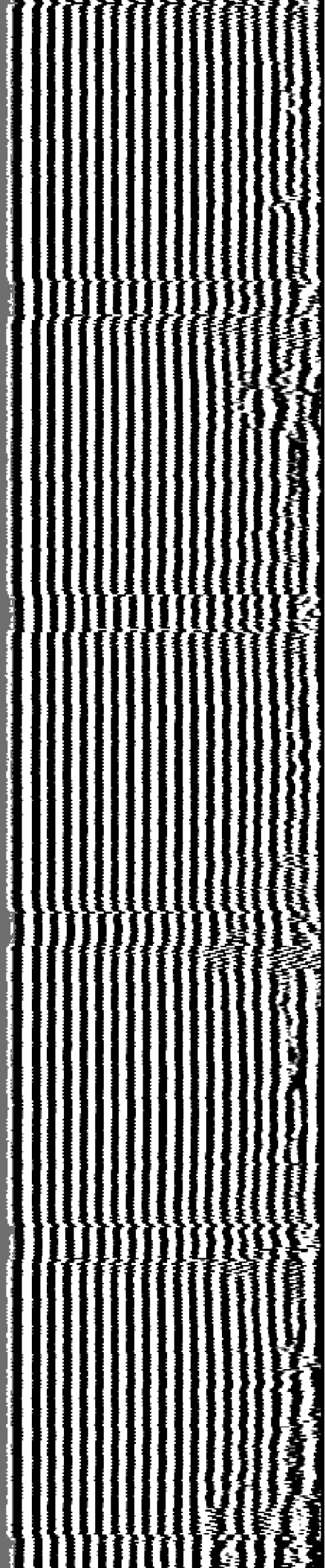


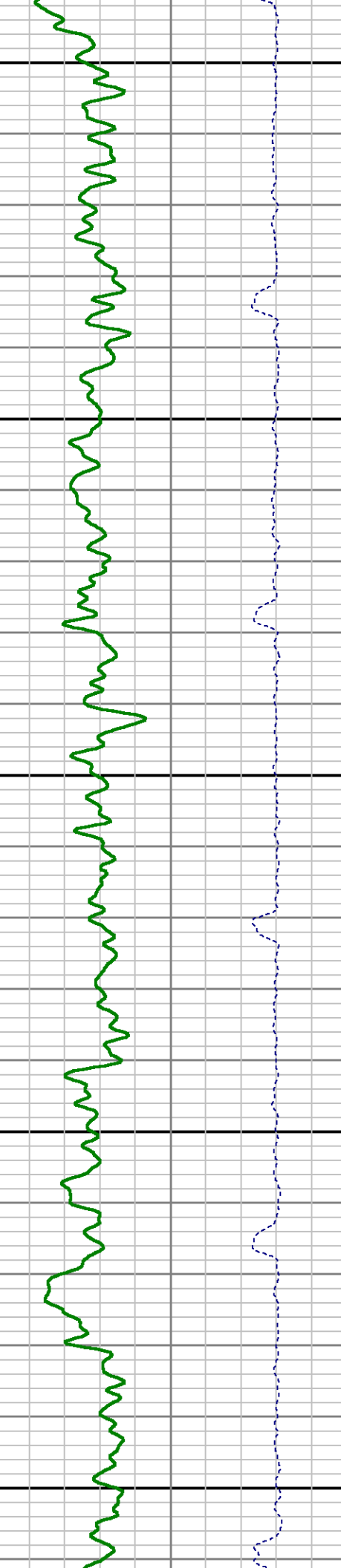
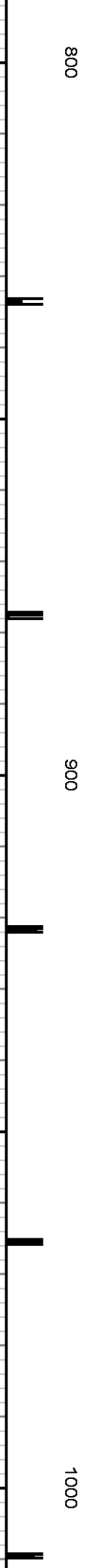
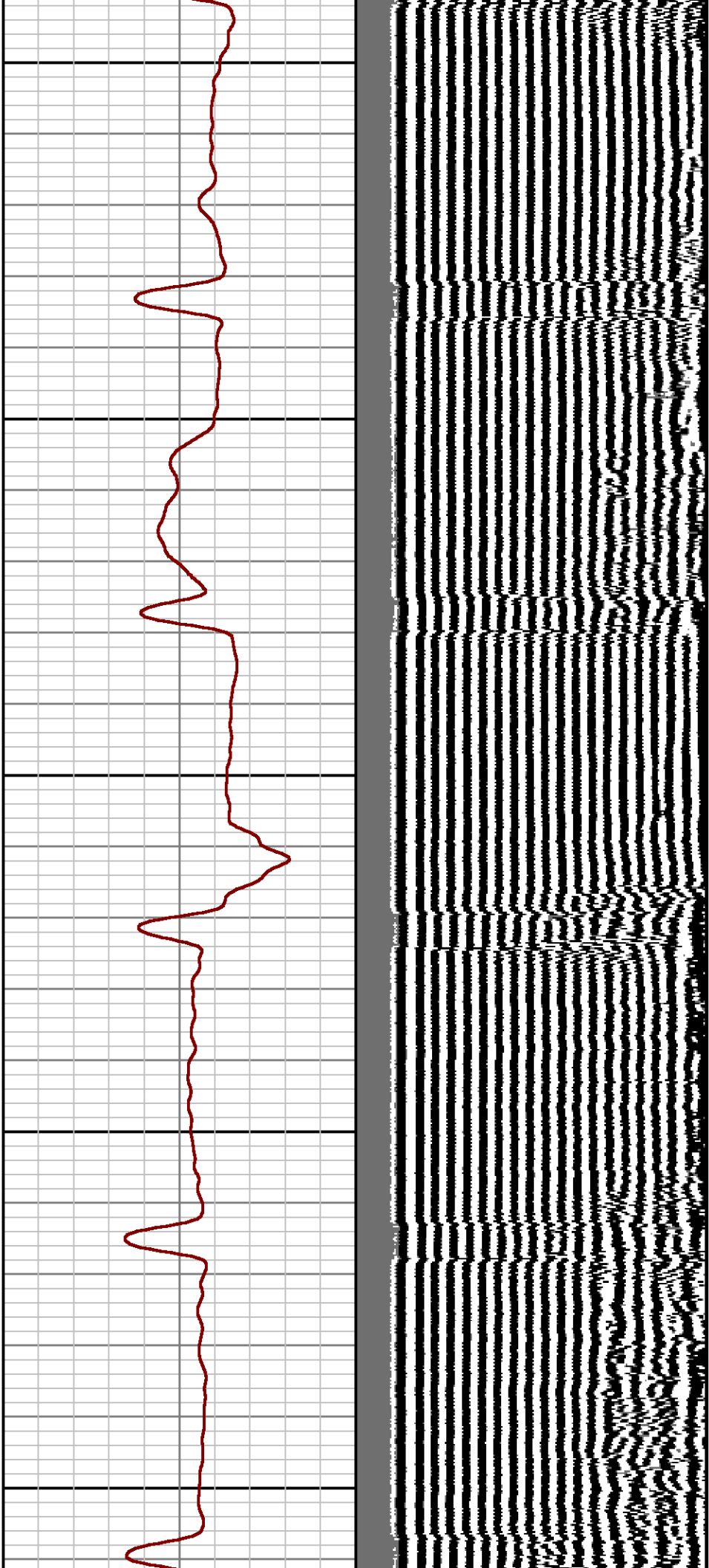
200

300

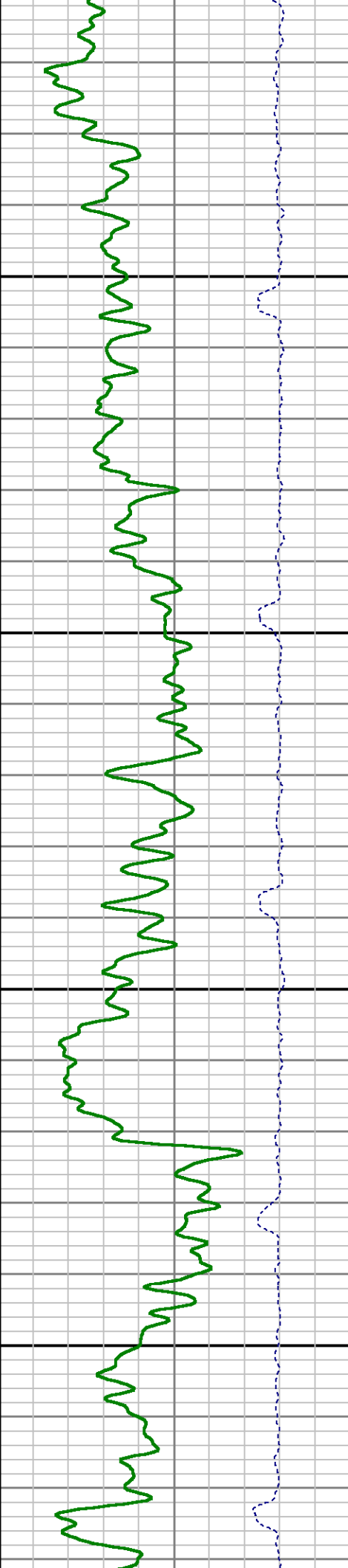
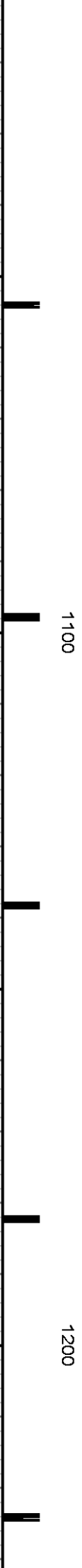
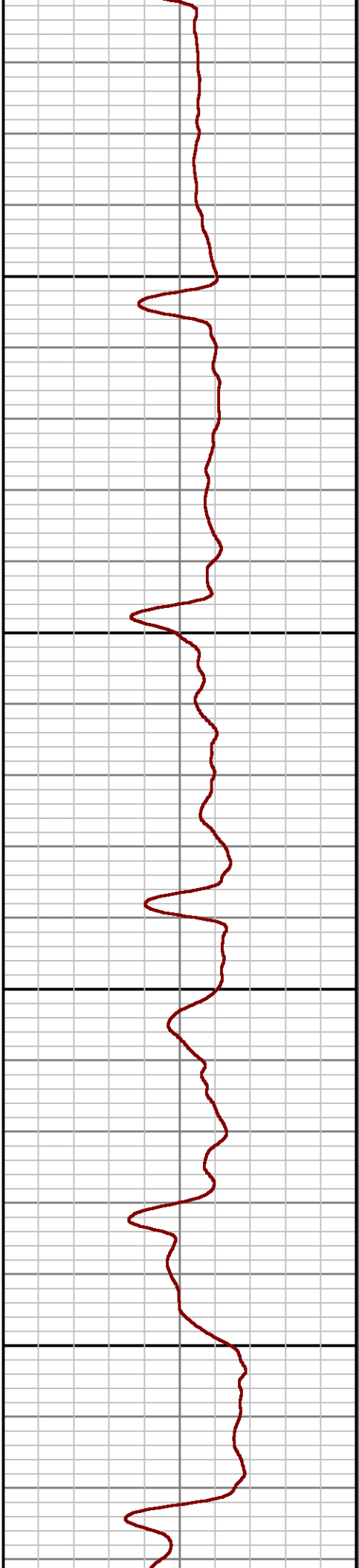
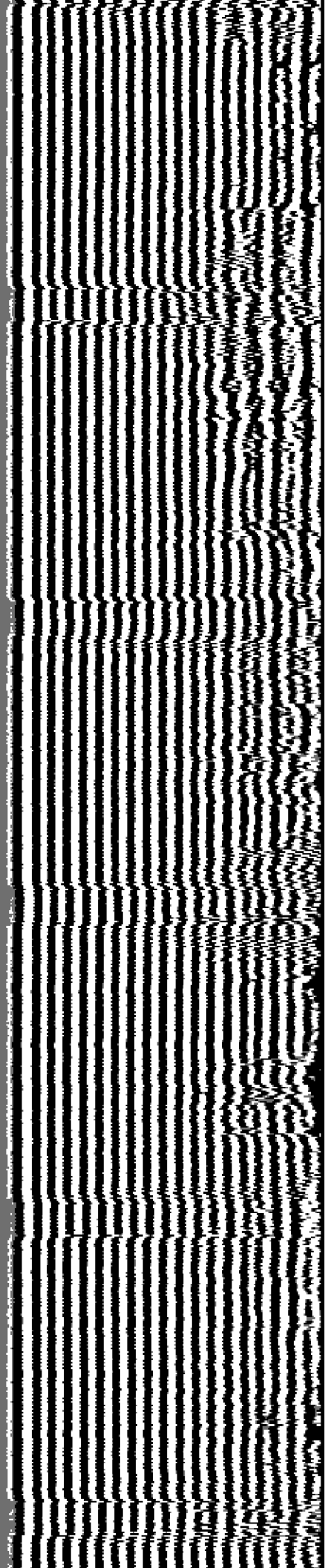




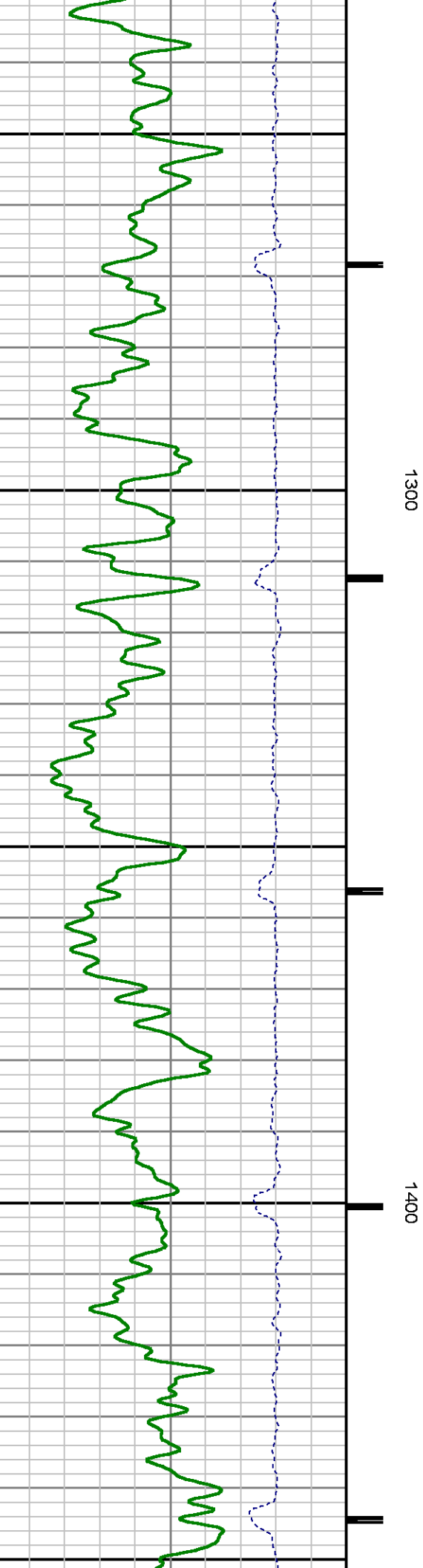
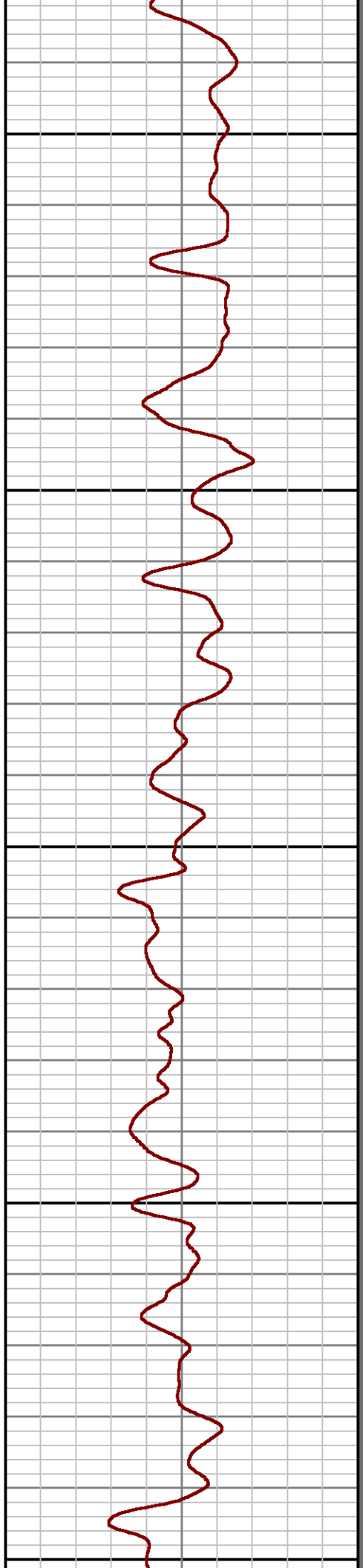
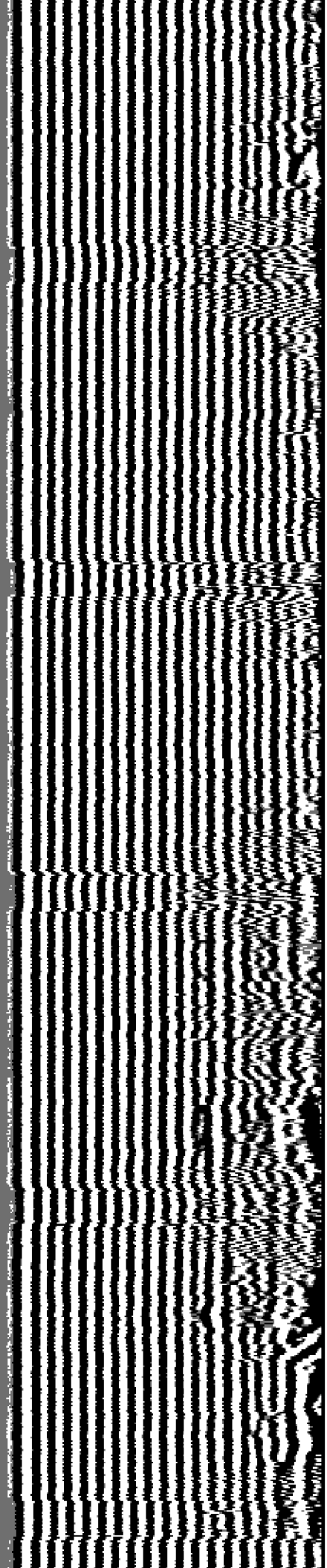


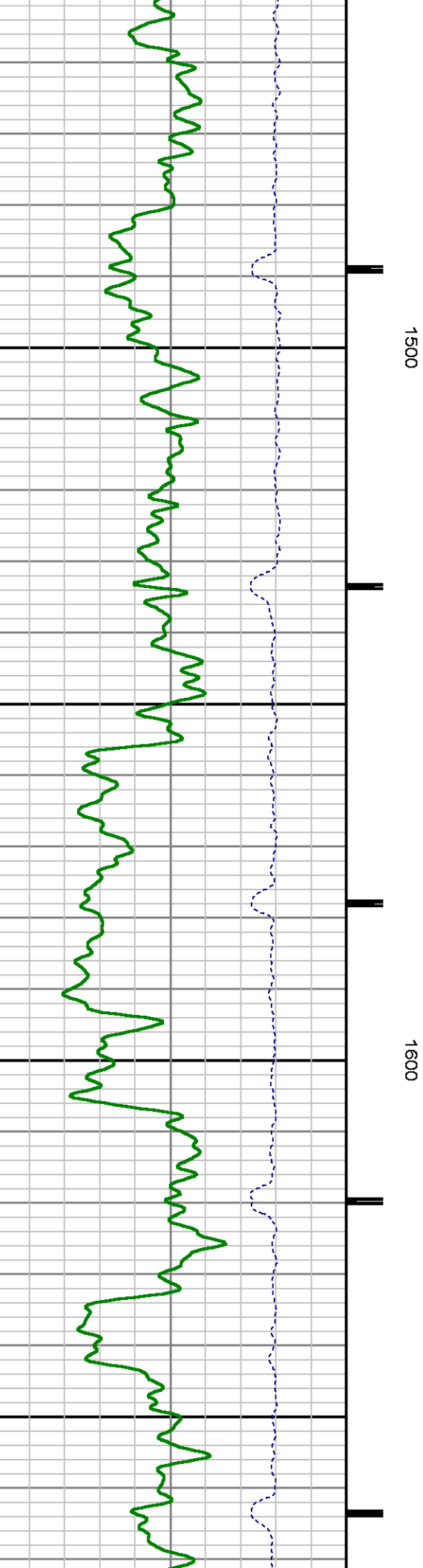
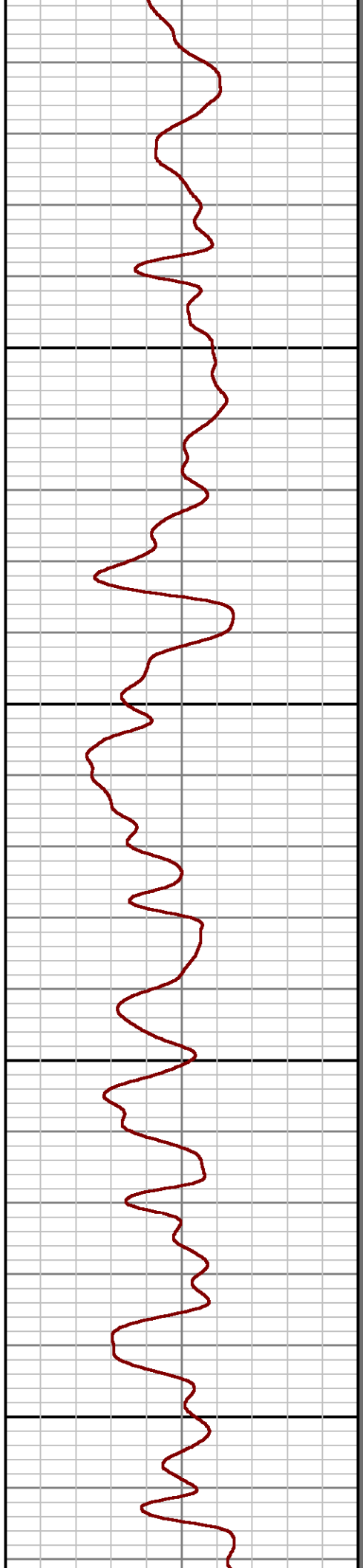
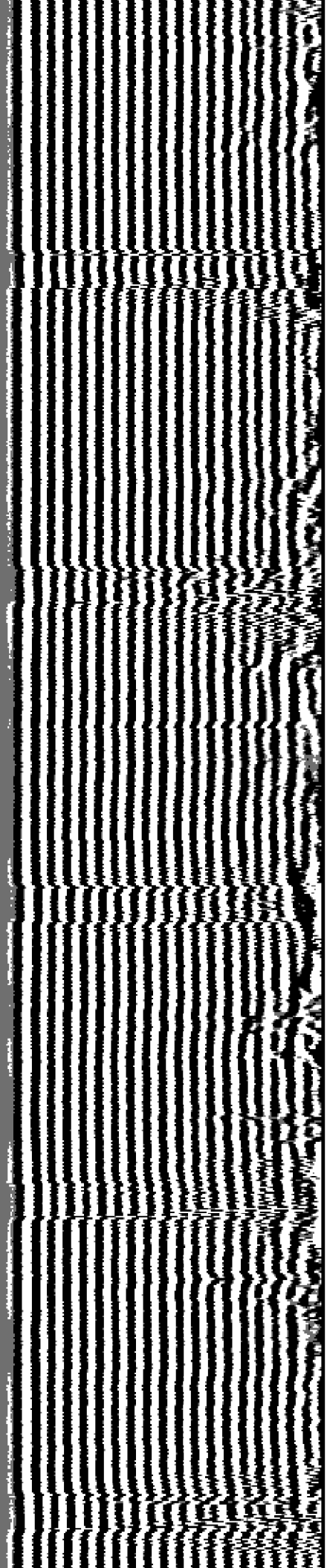


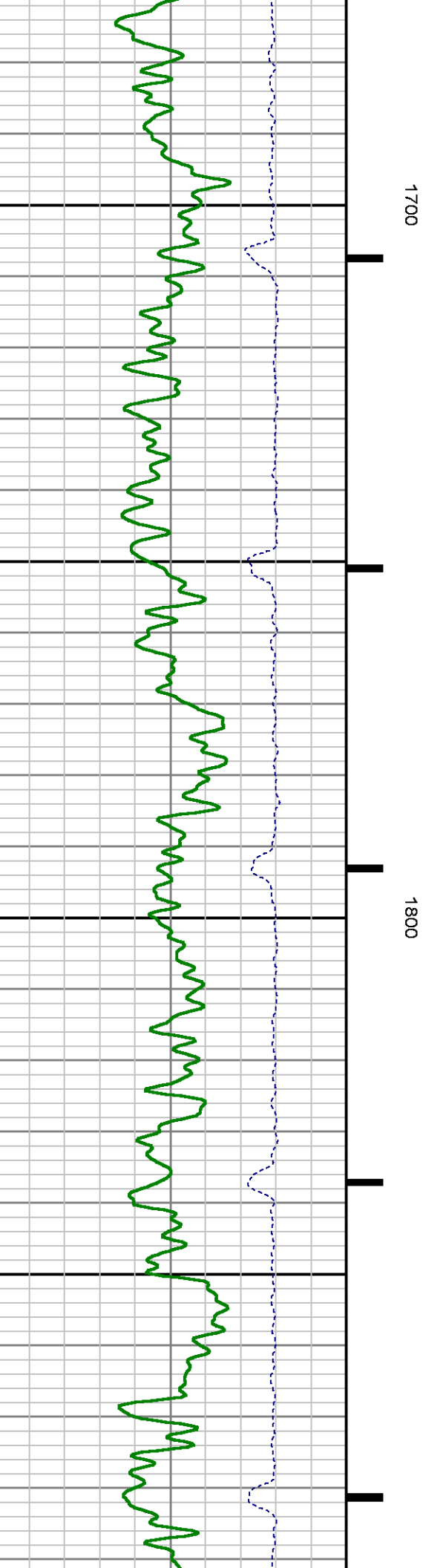
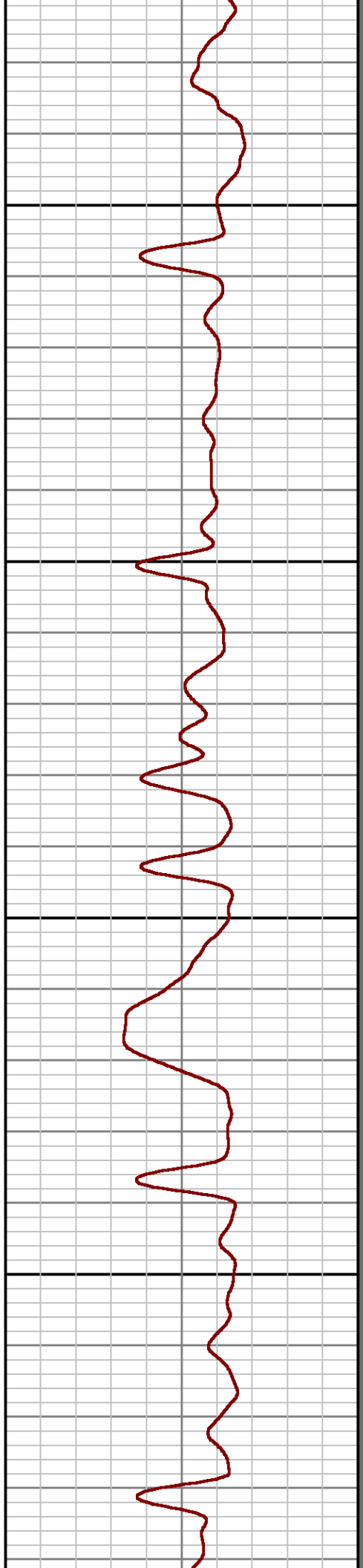
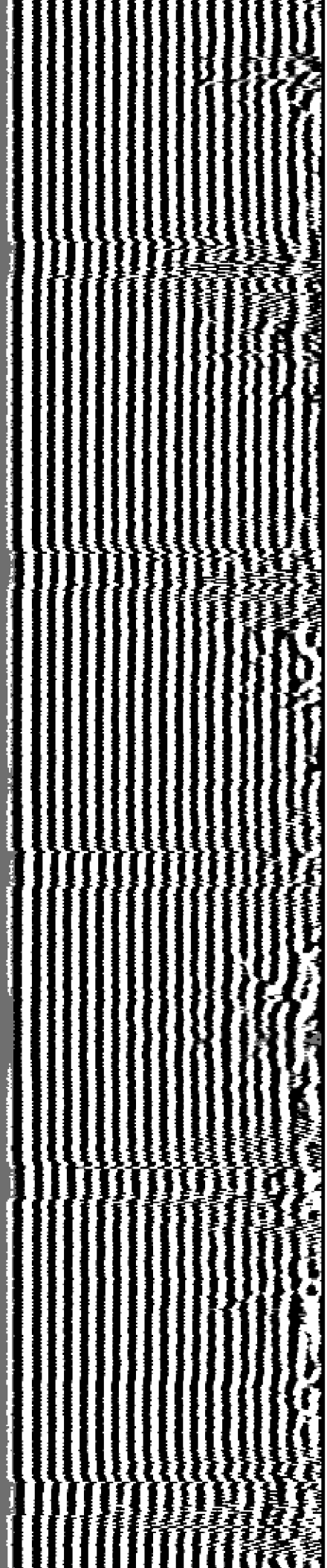


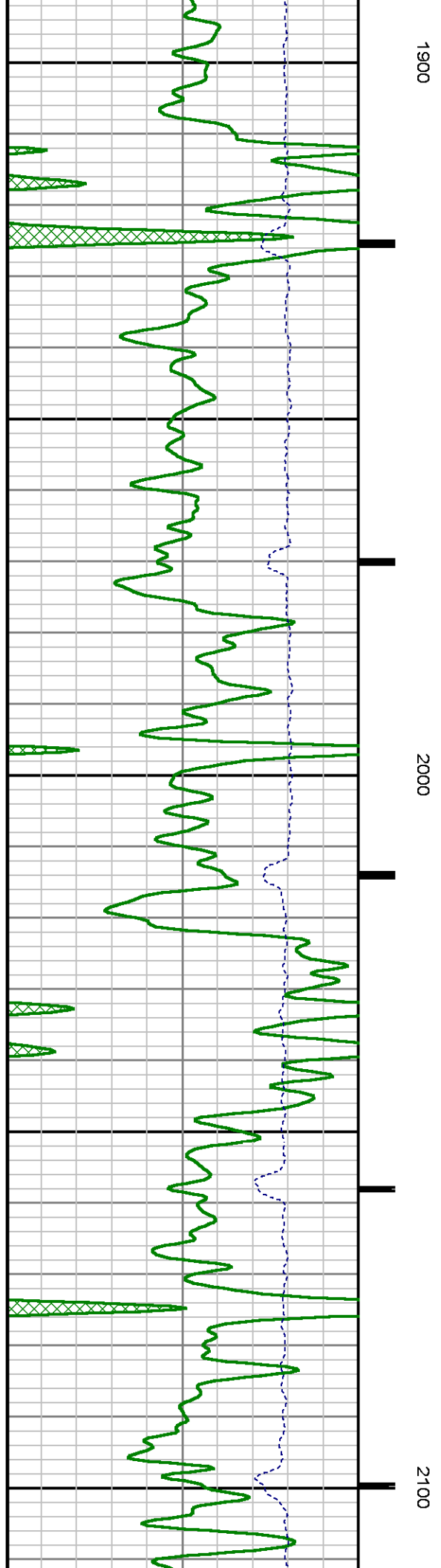
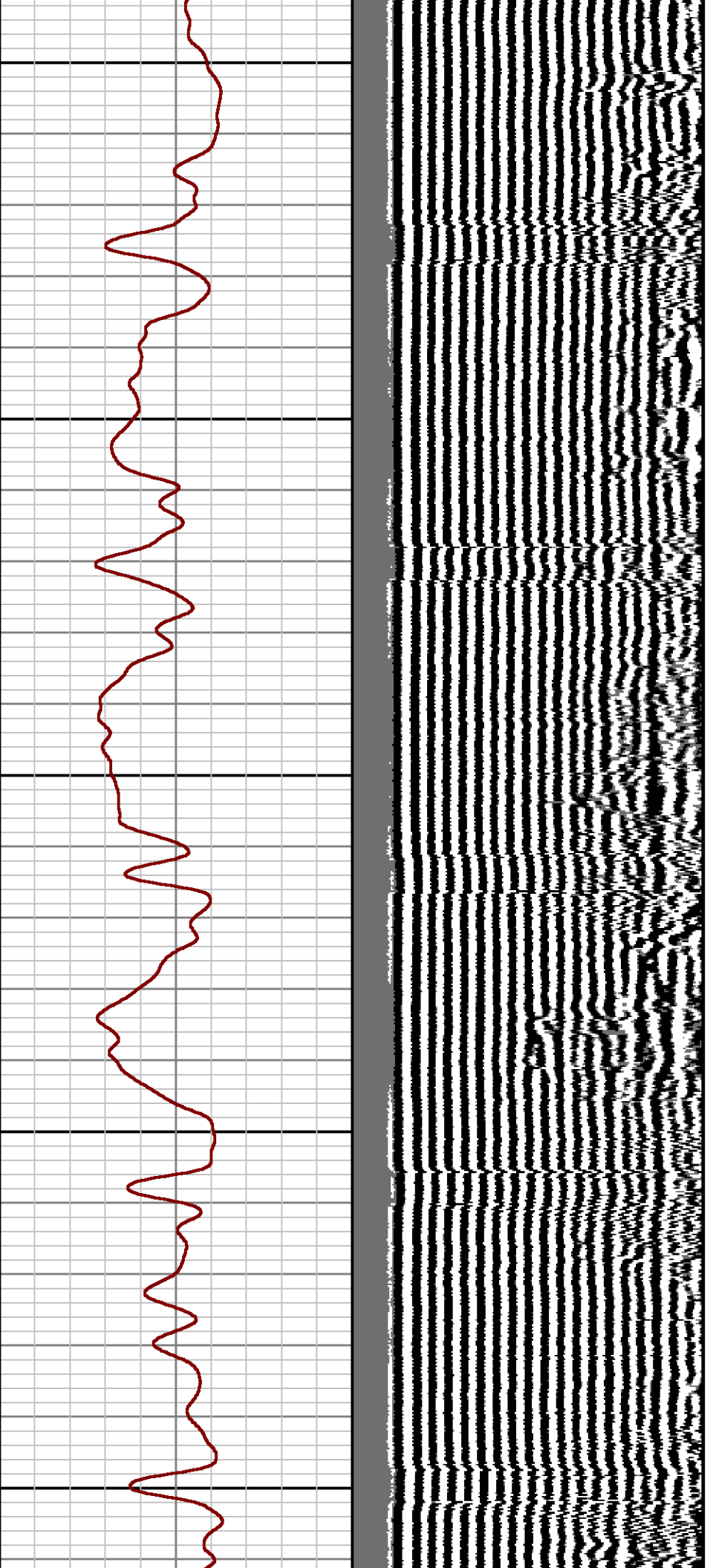


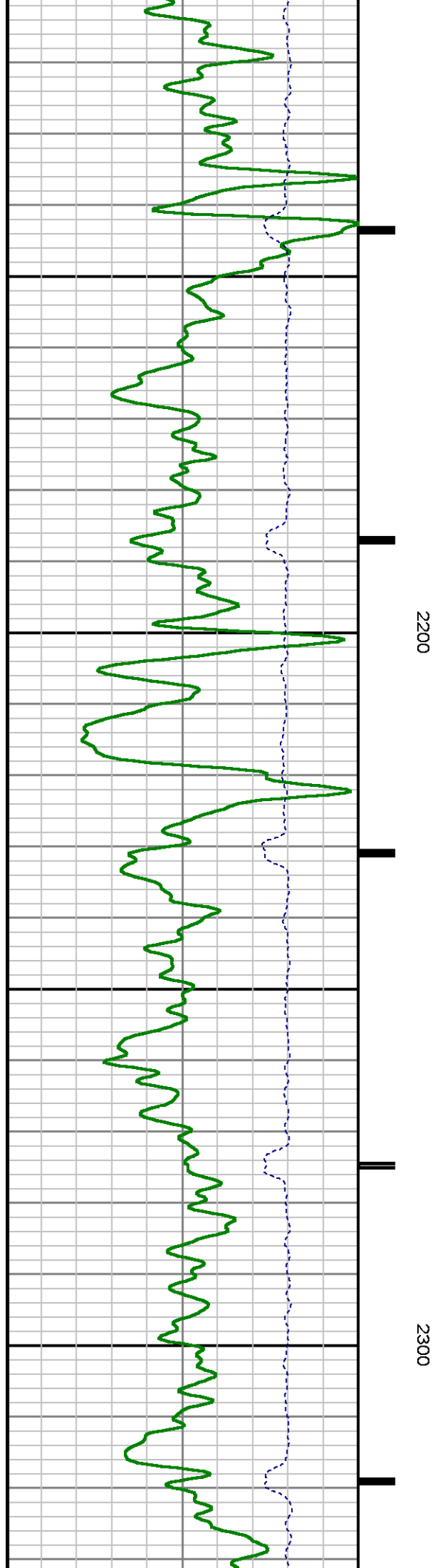
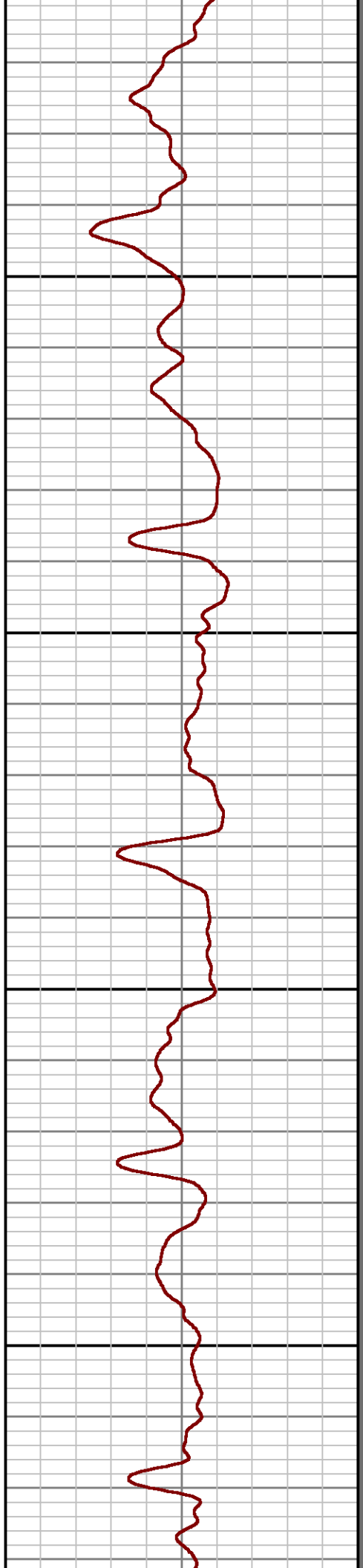
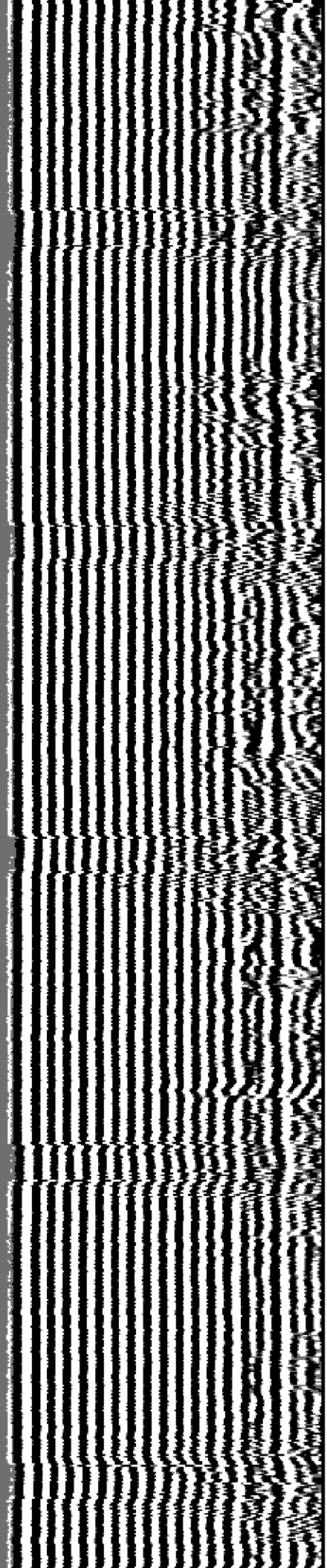




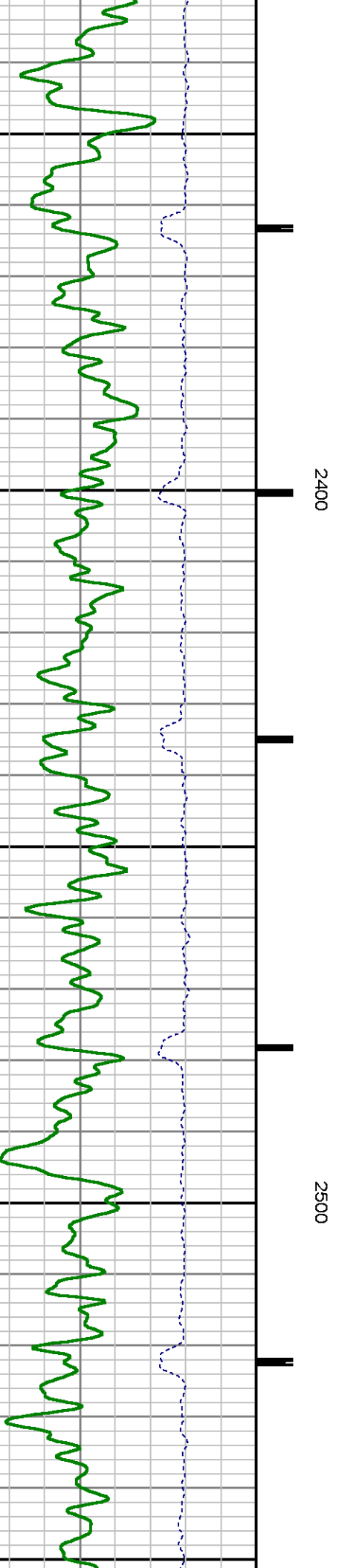
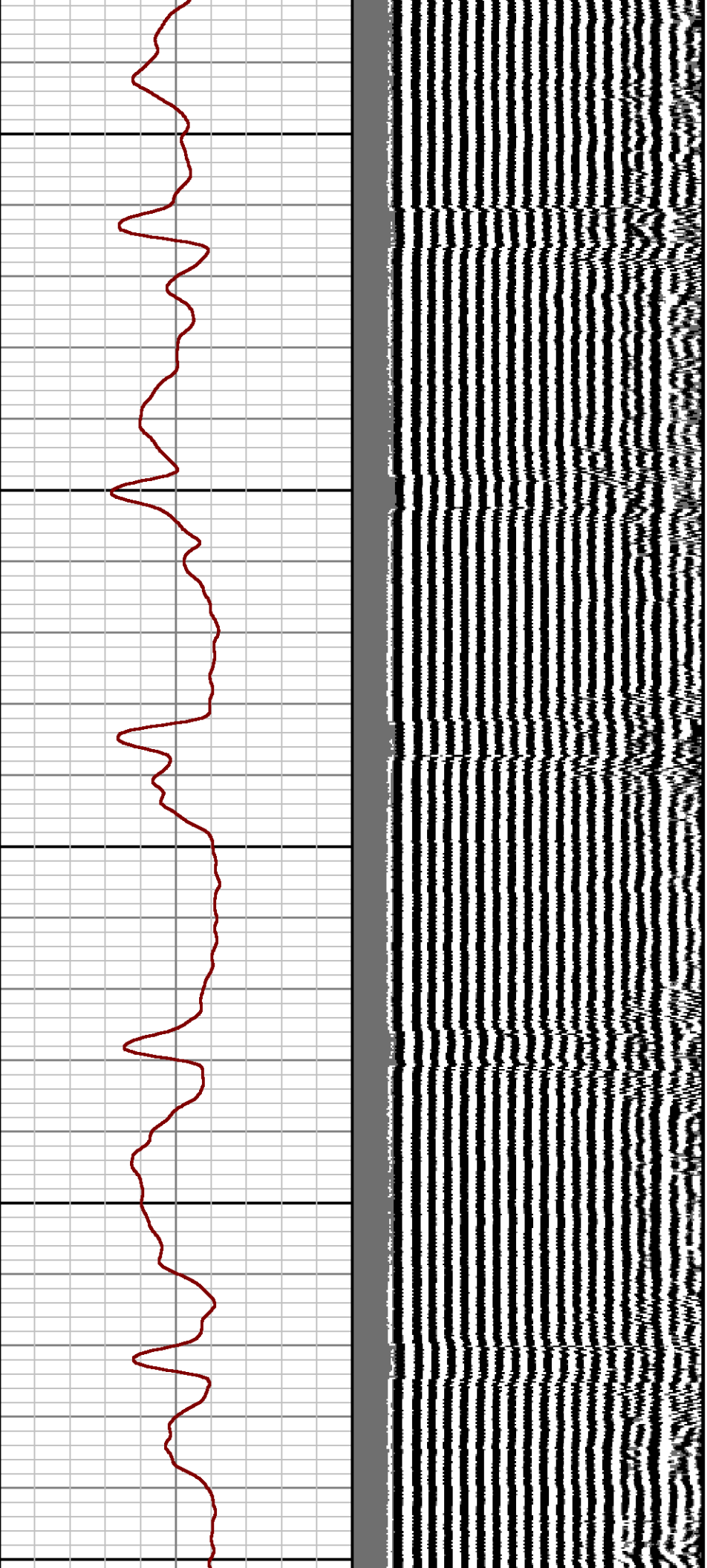


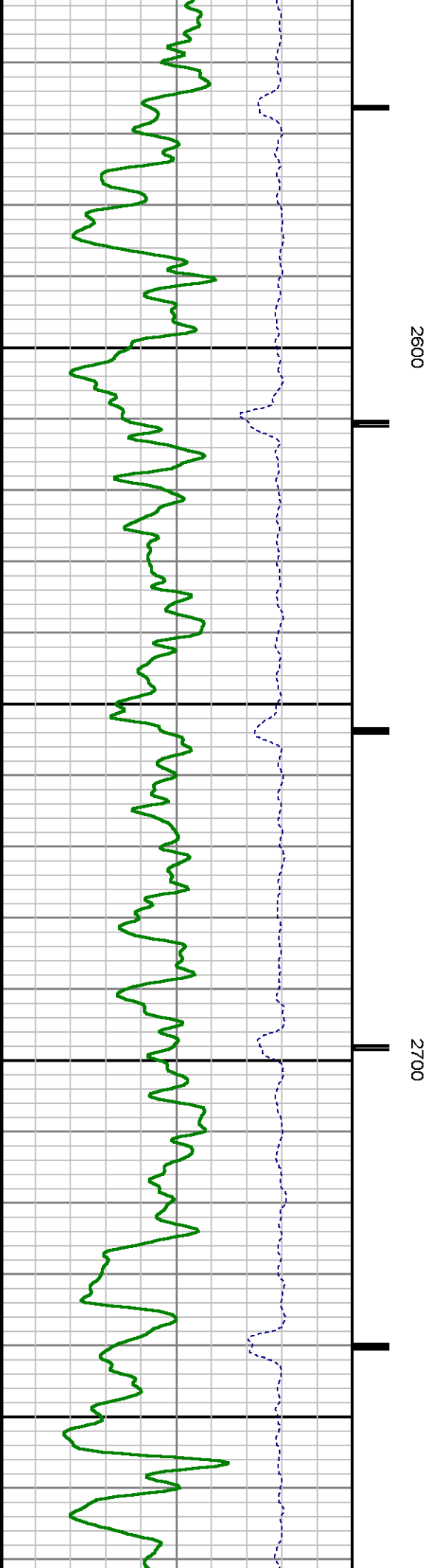
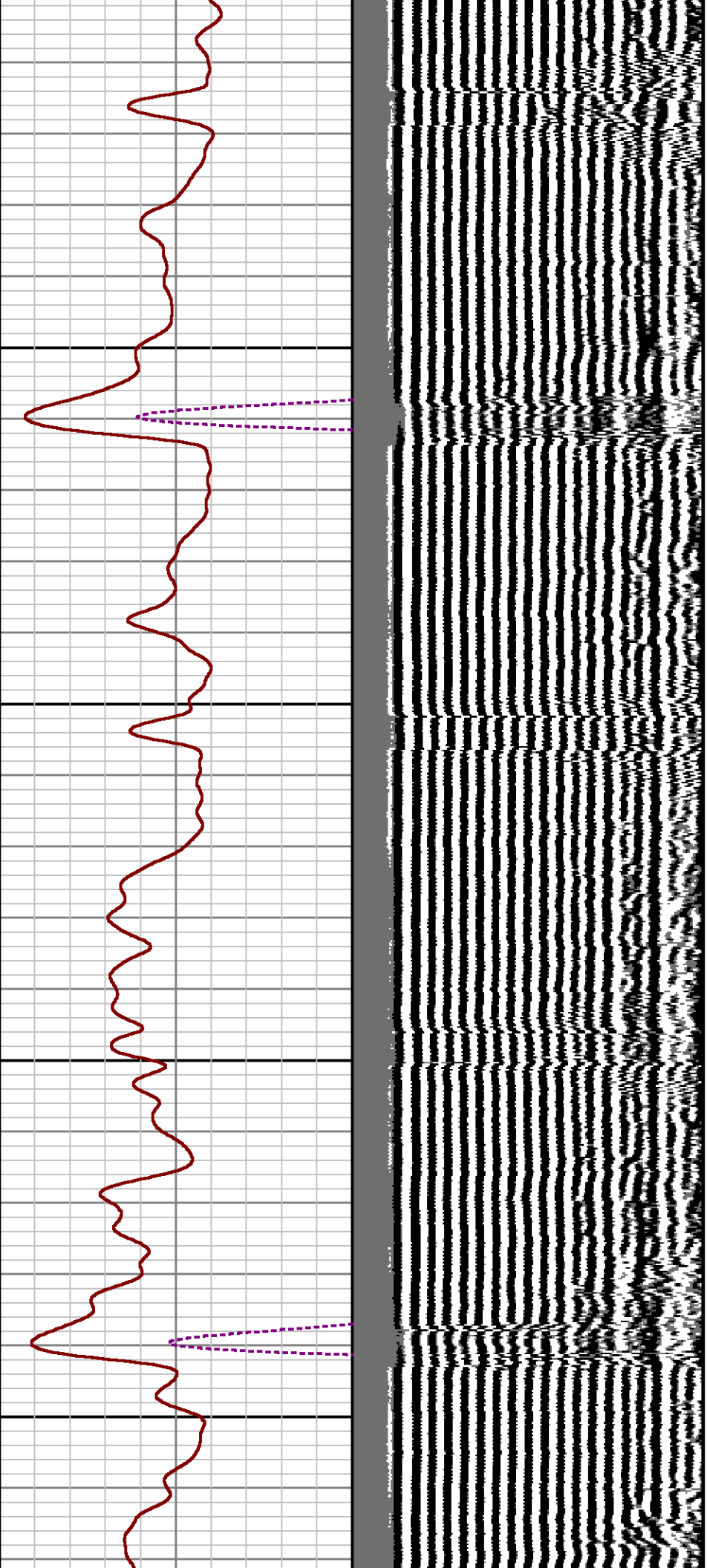




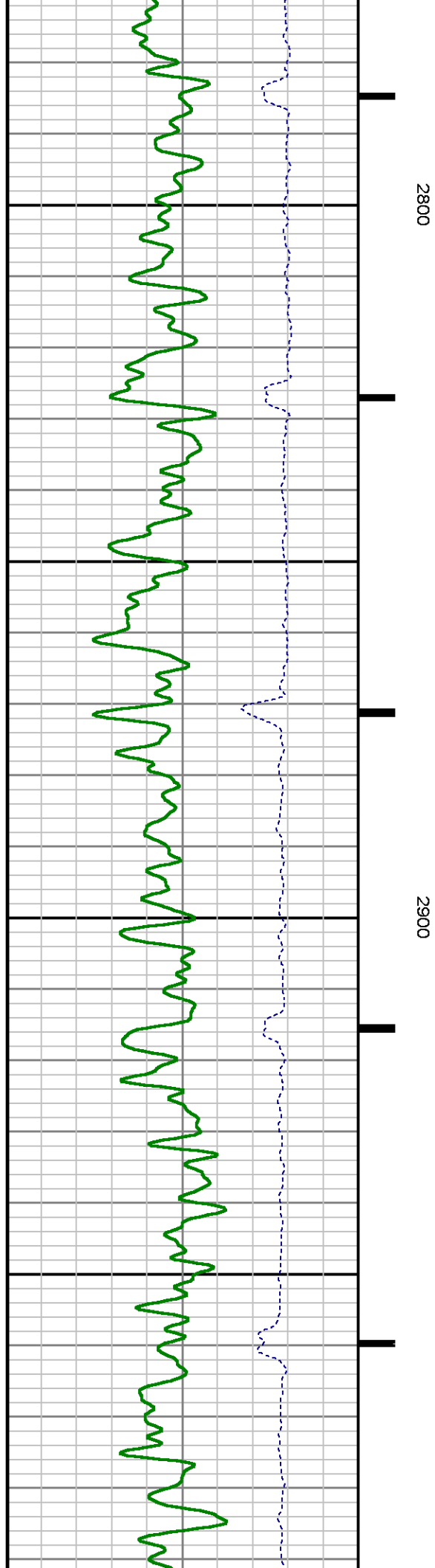
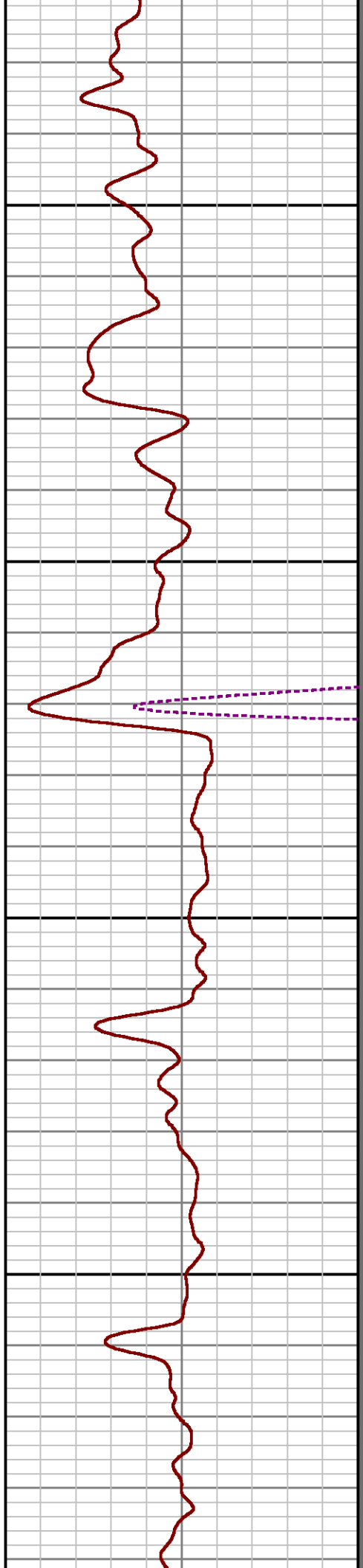
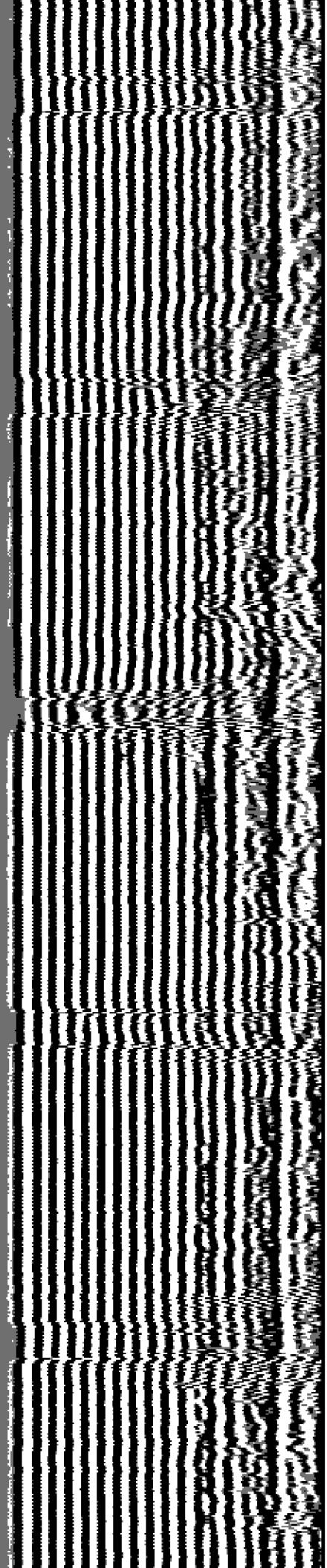


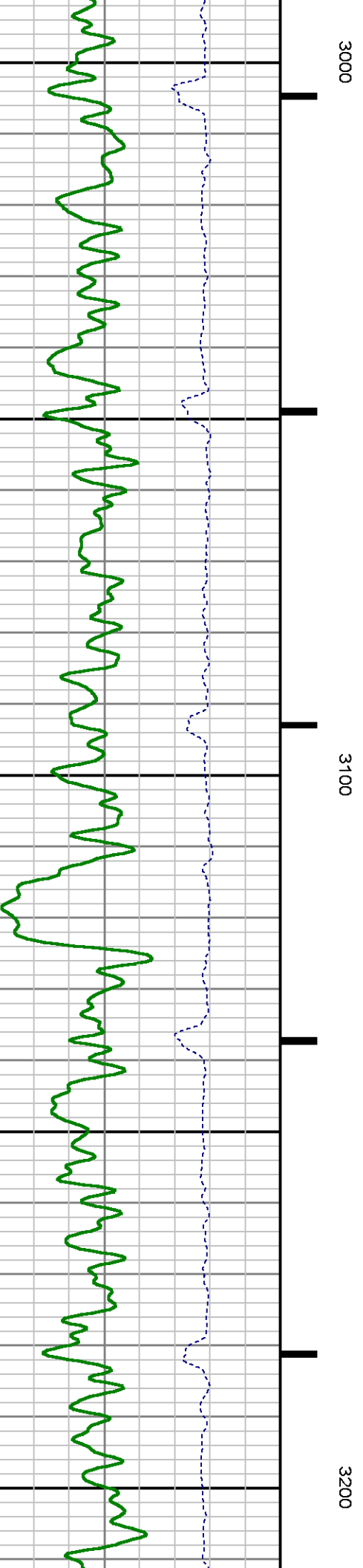
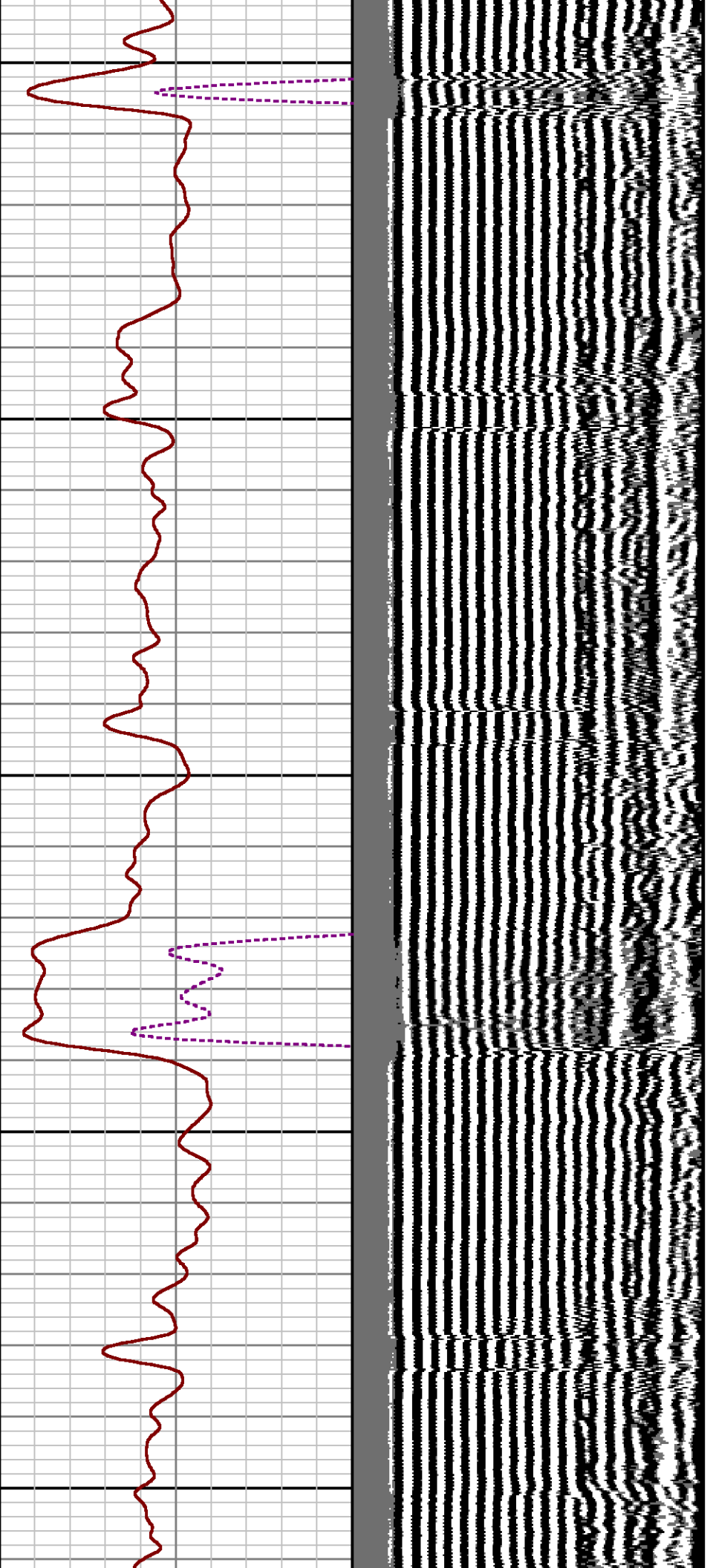


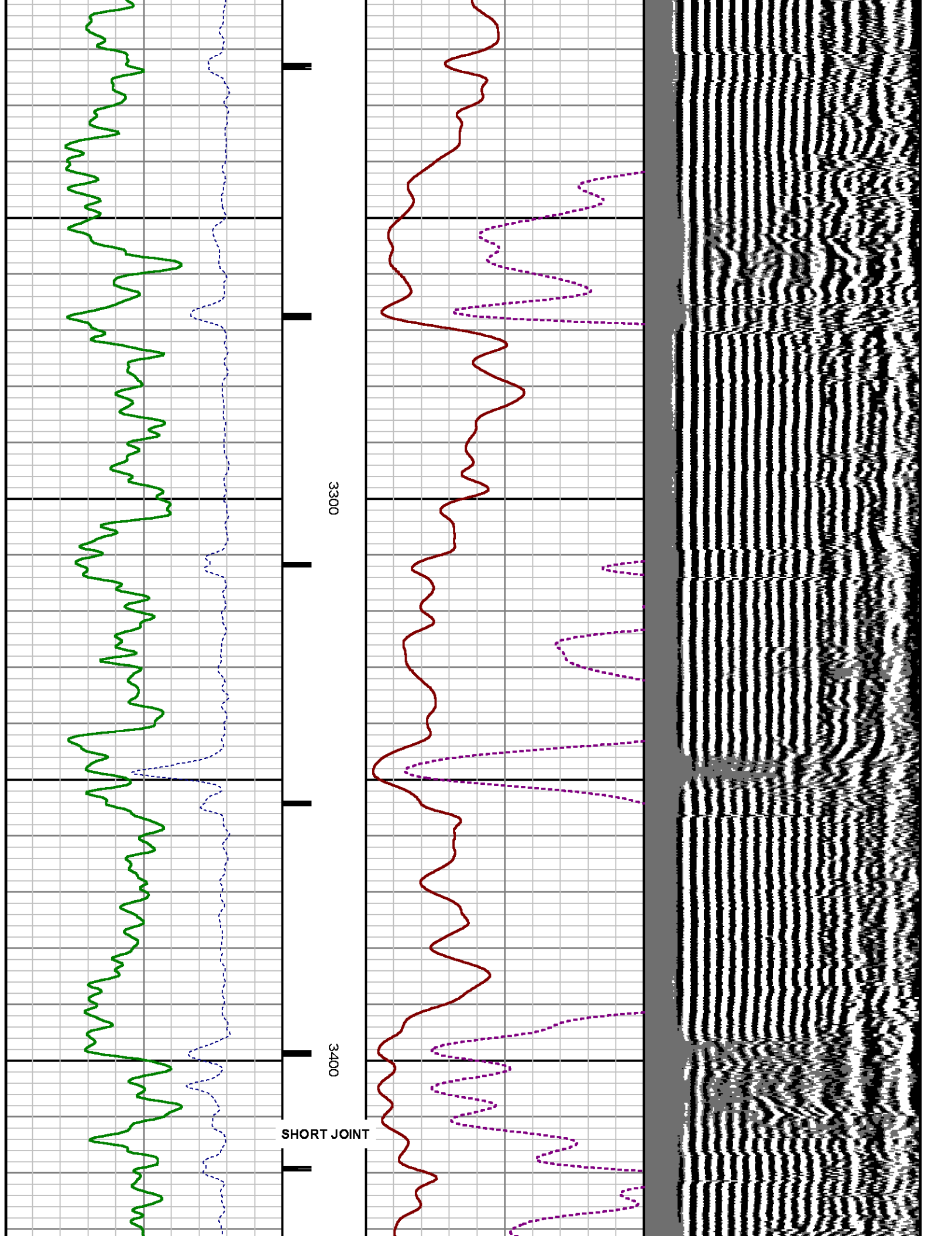


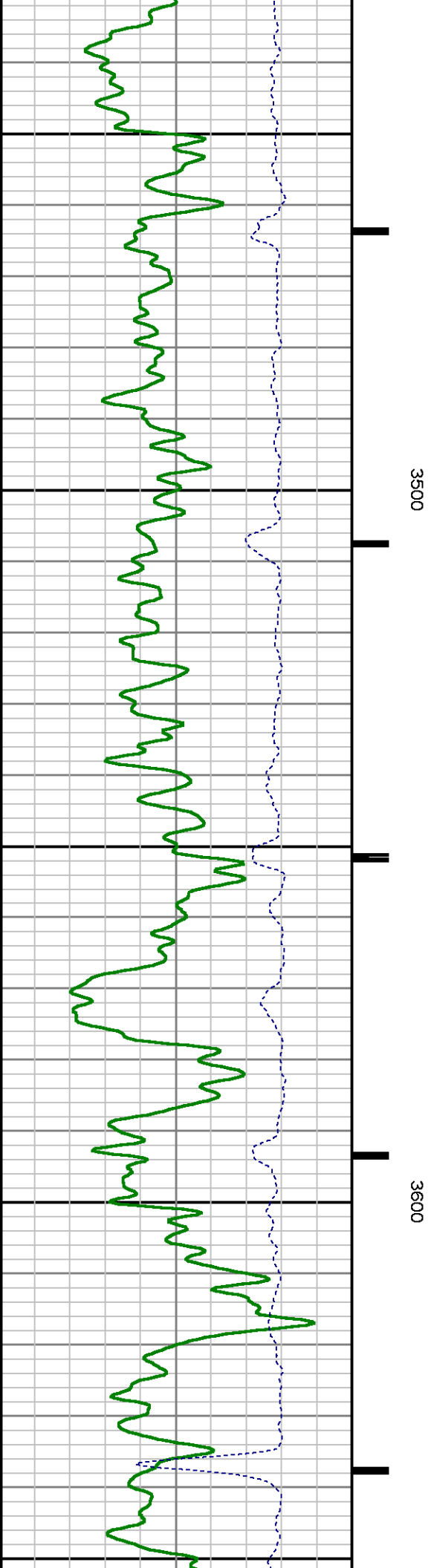
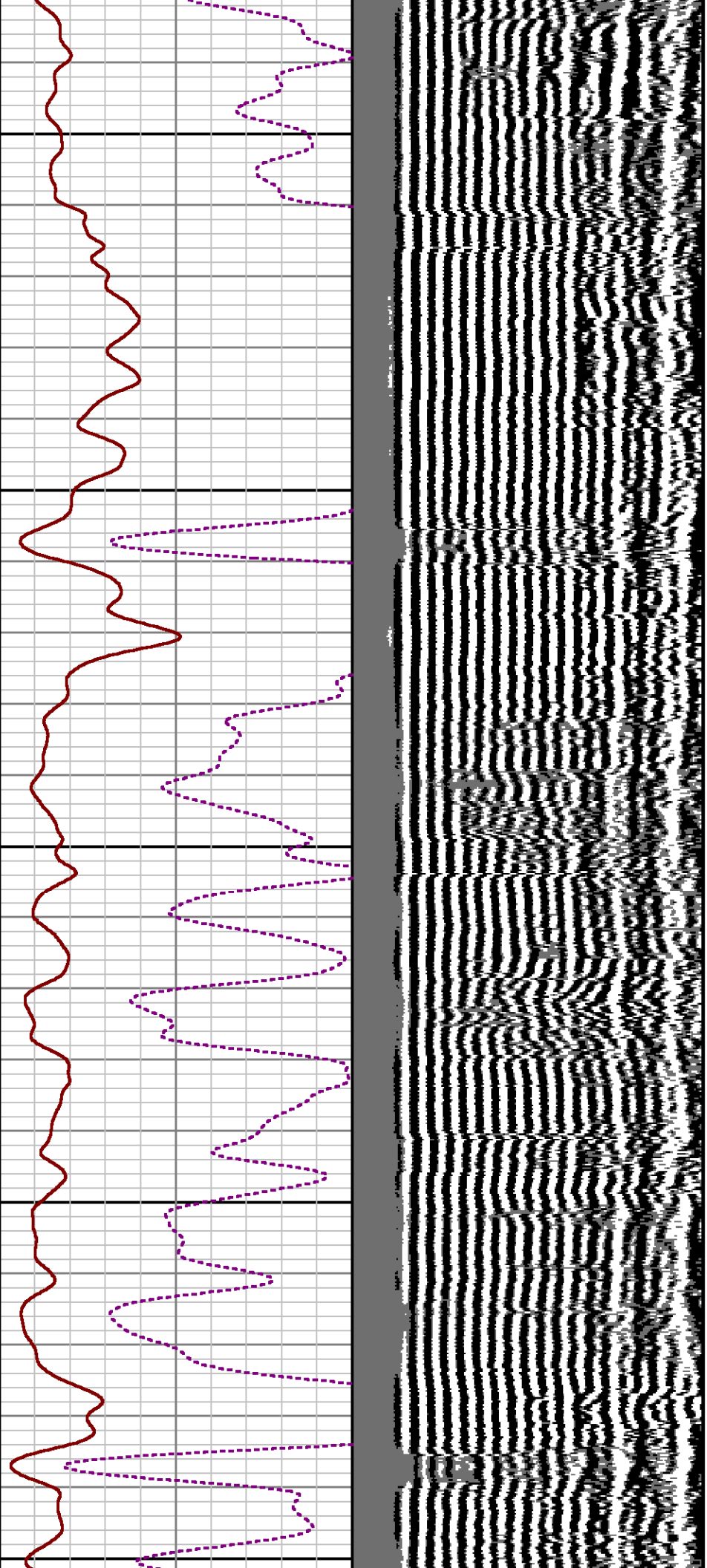


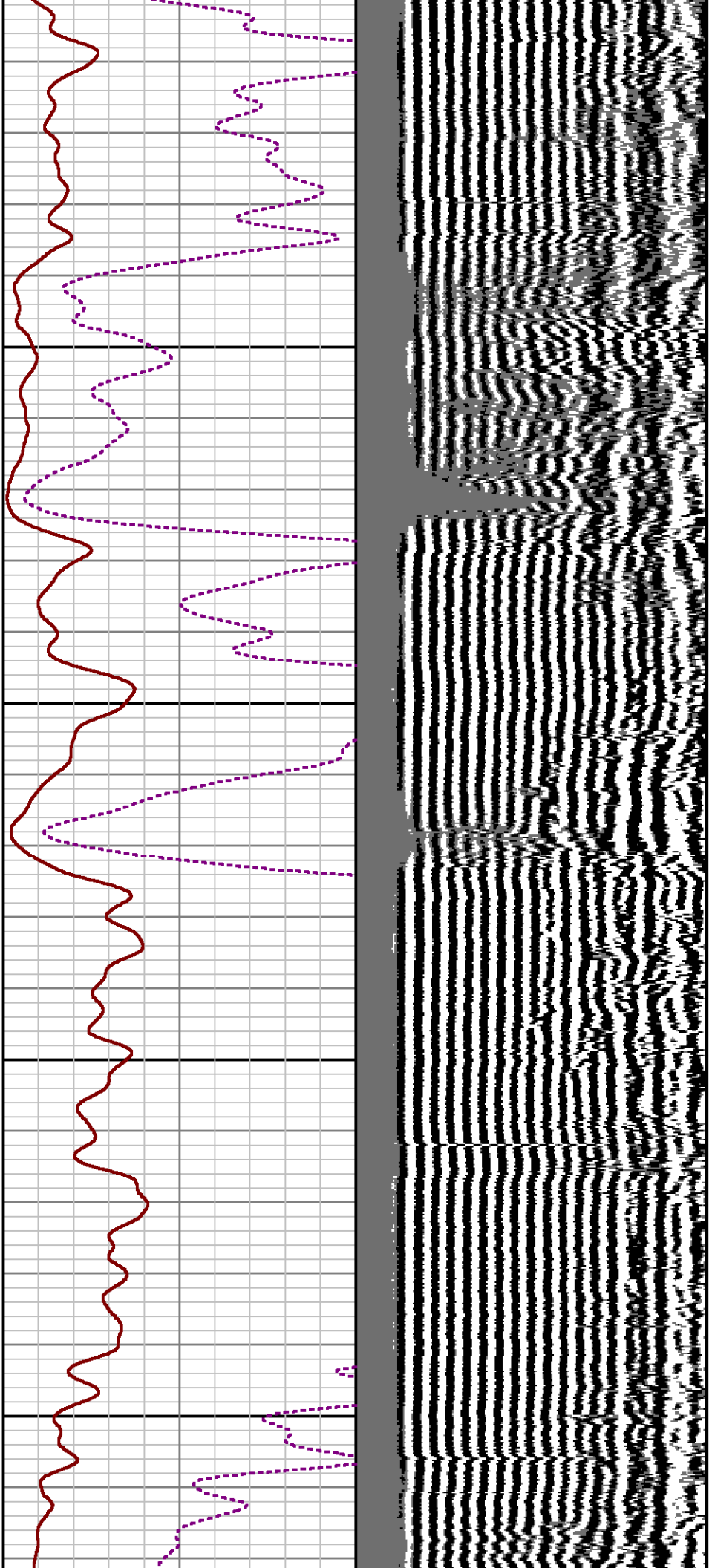






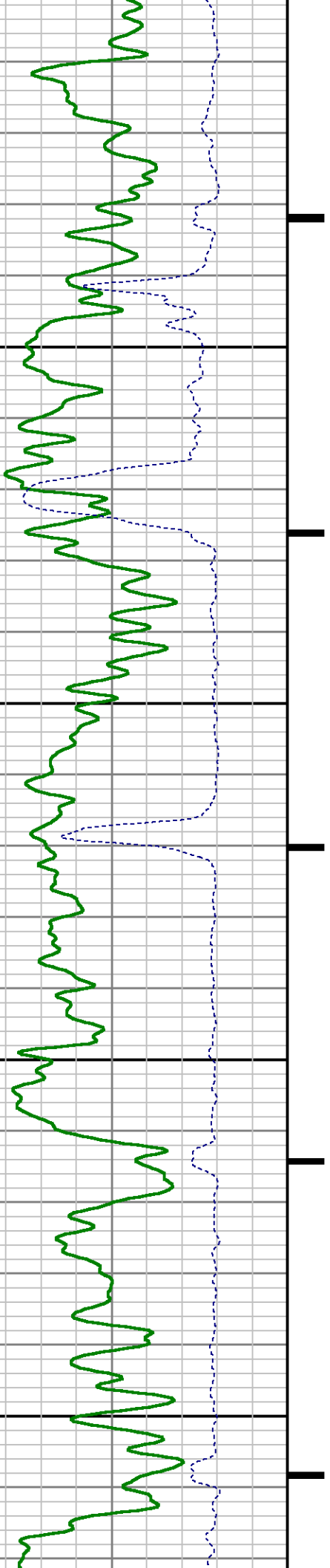




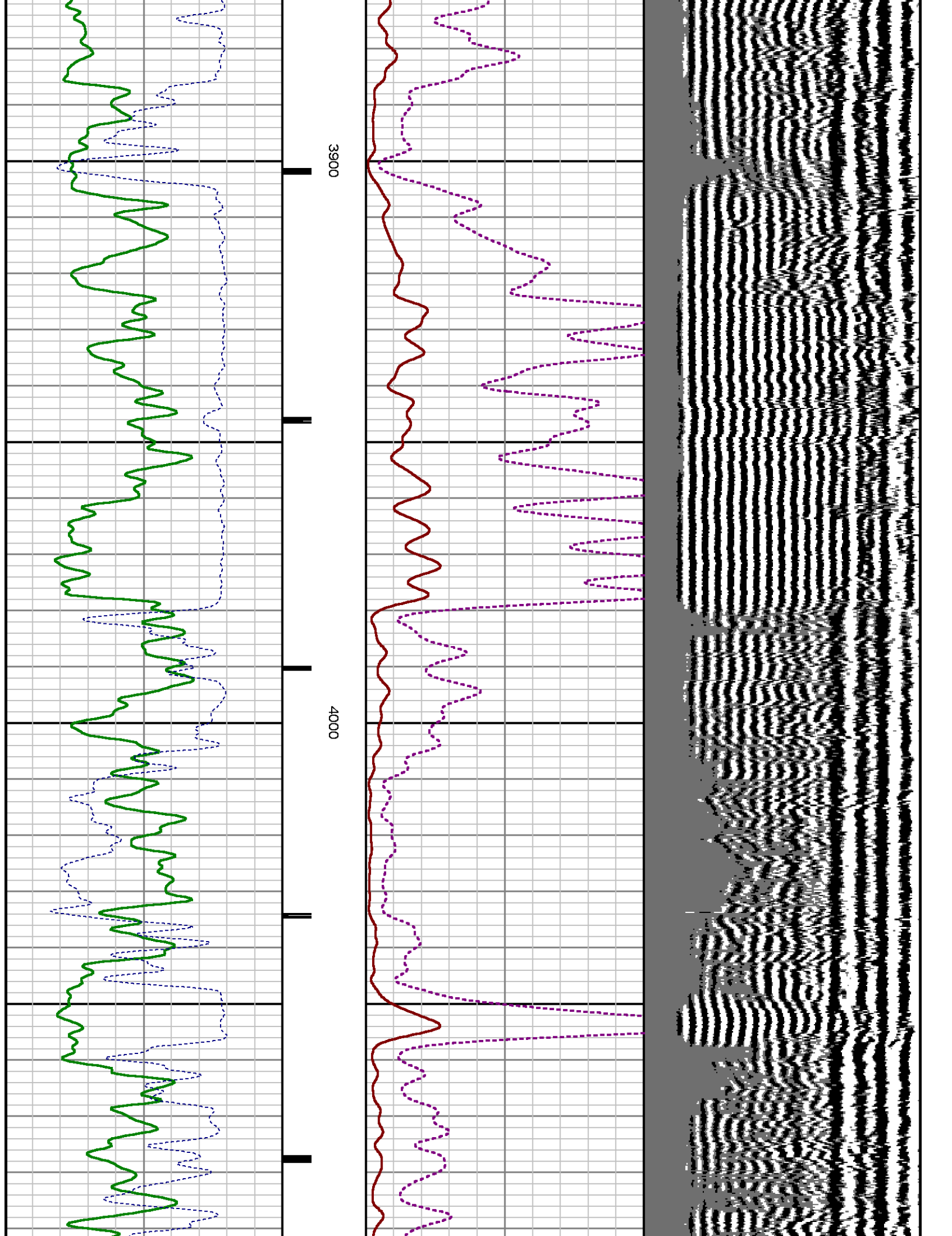


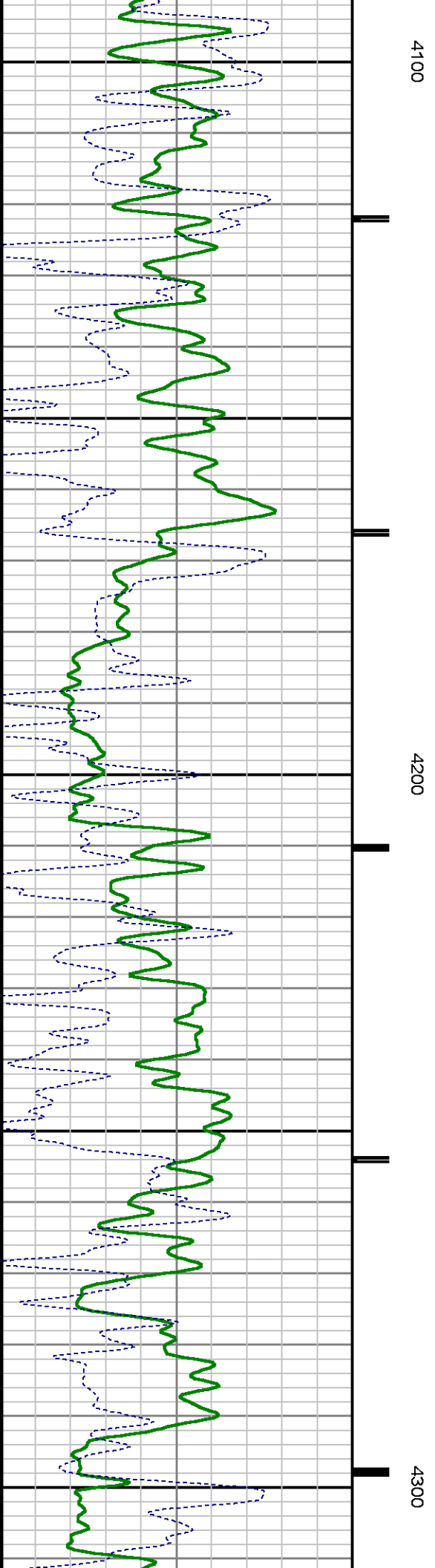
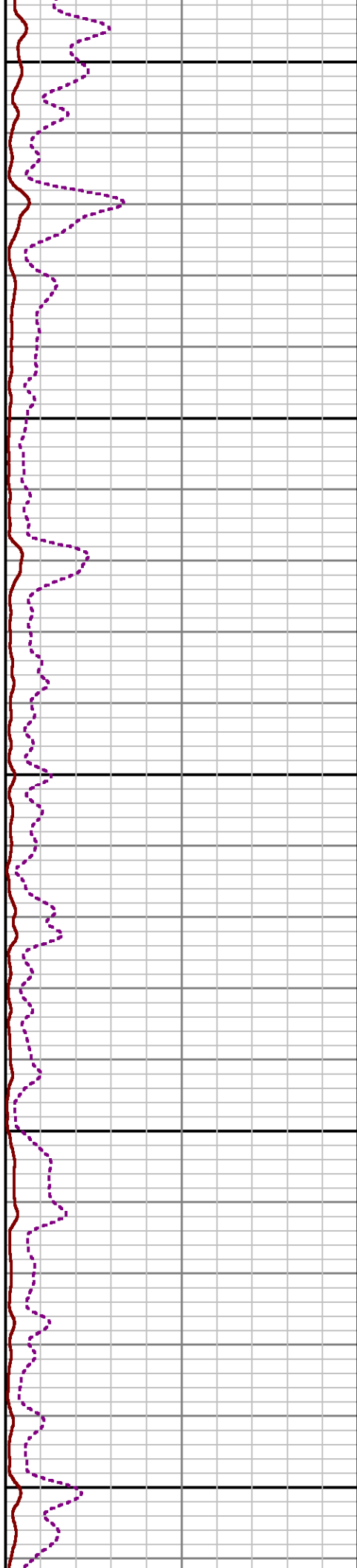
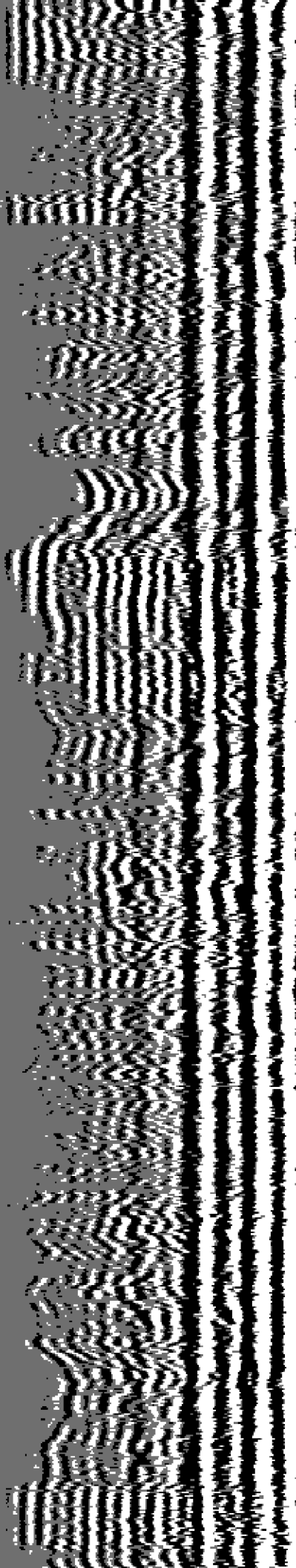
3700

3800

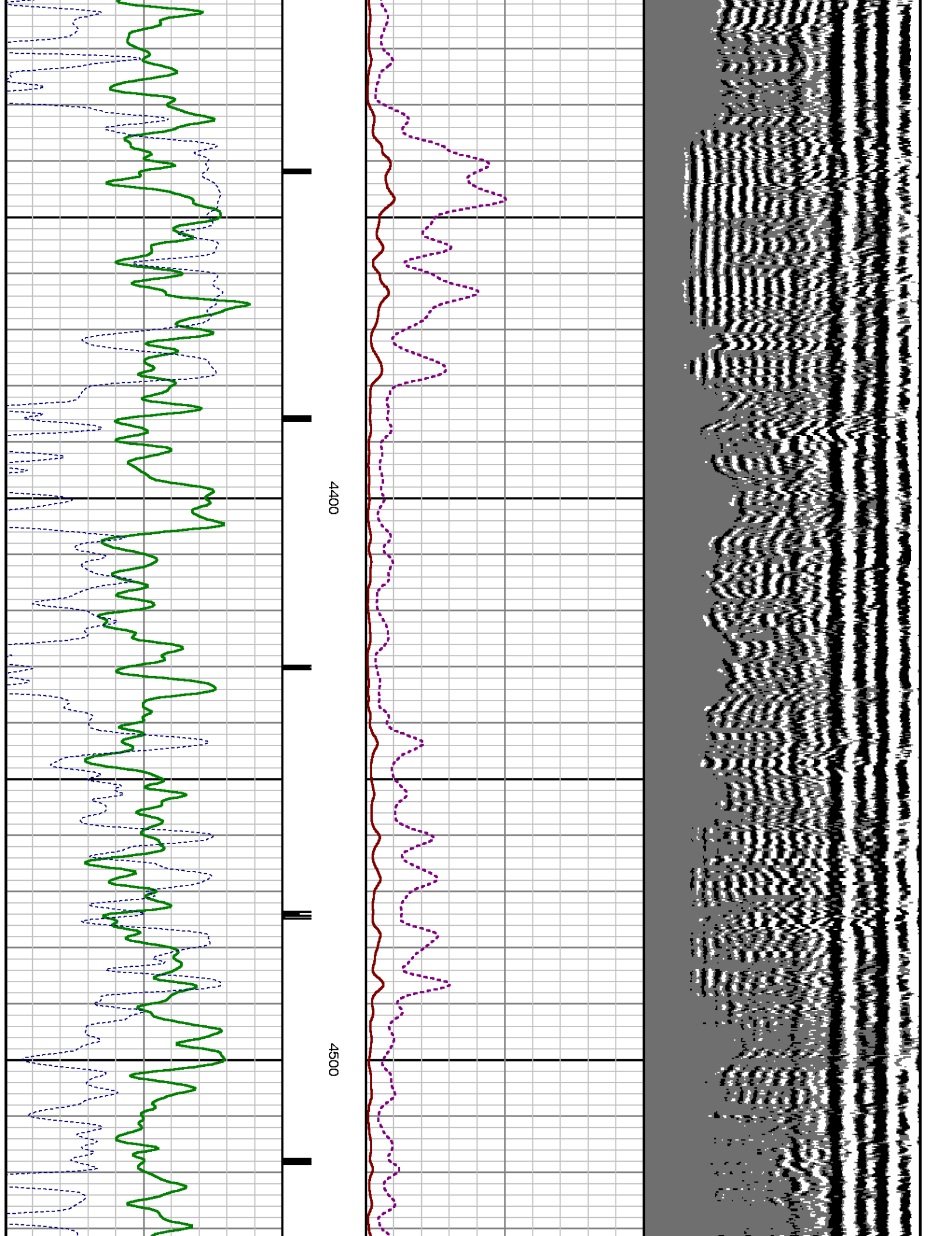


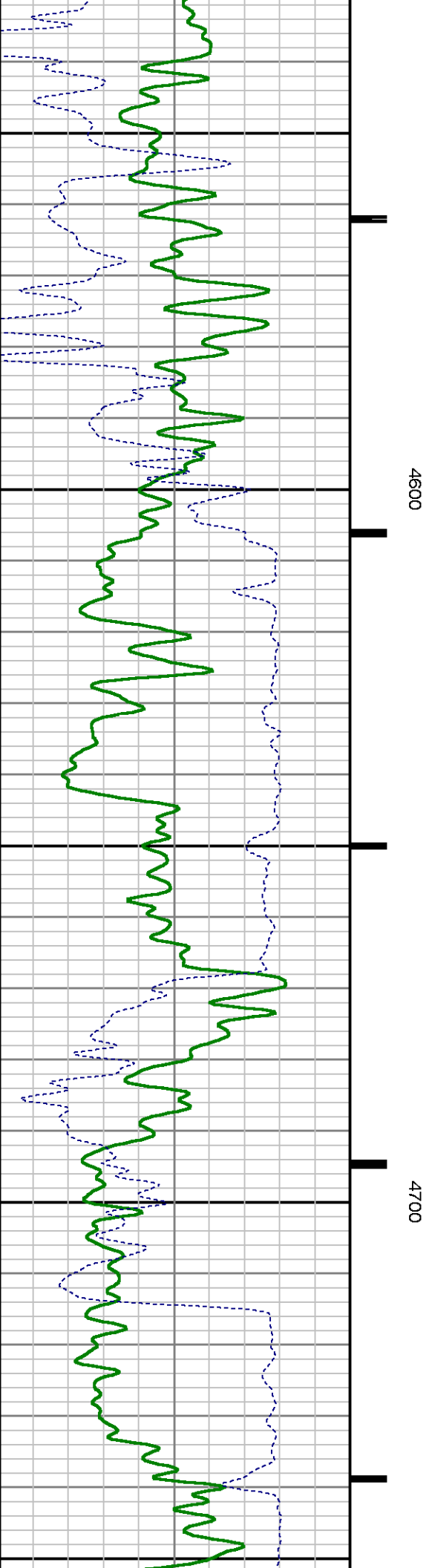
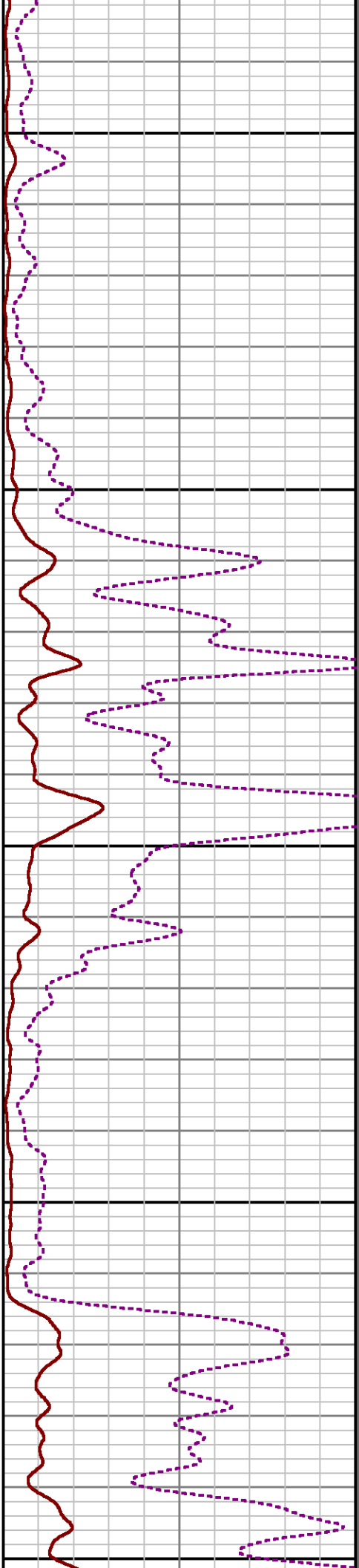
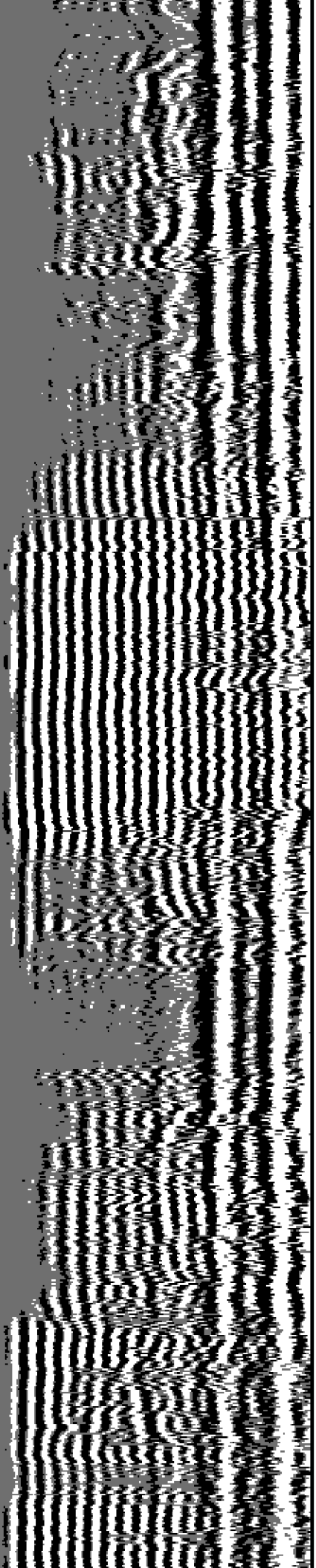


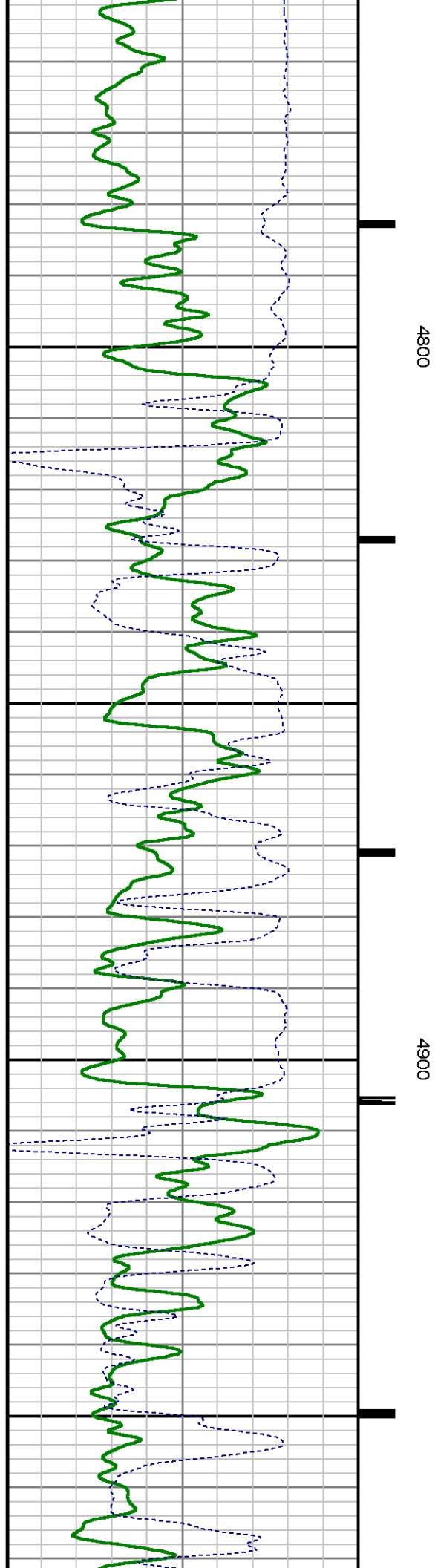
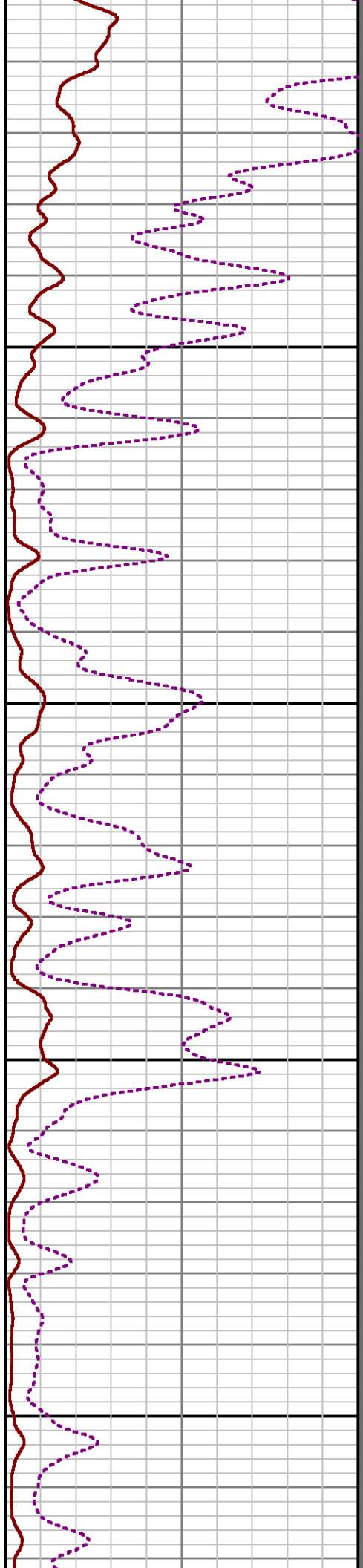
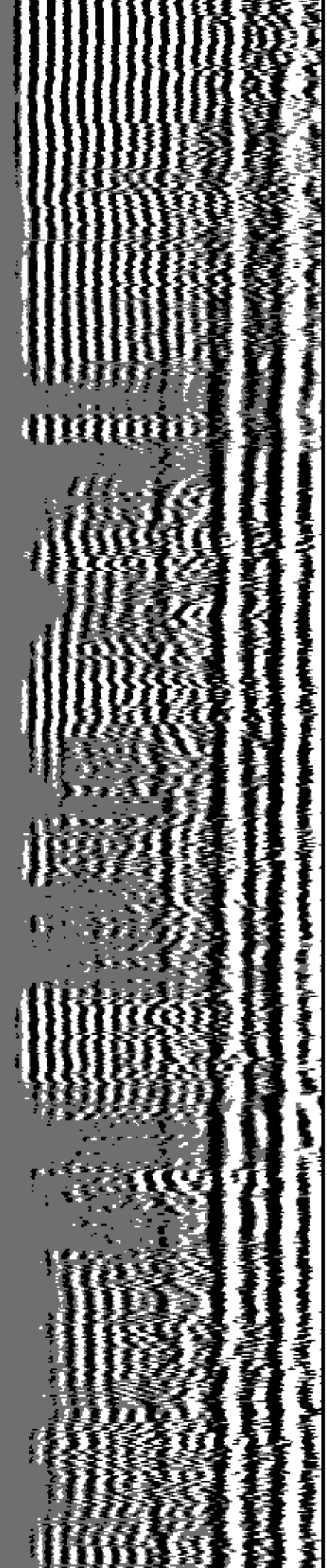


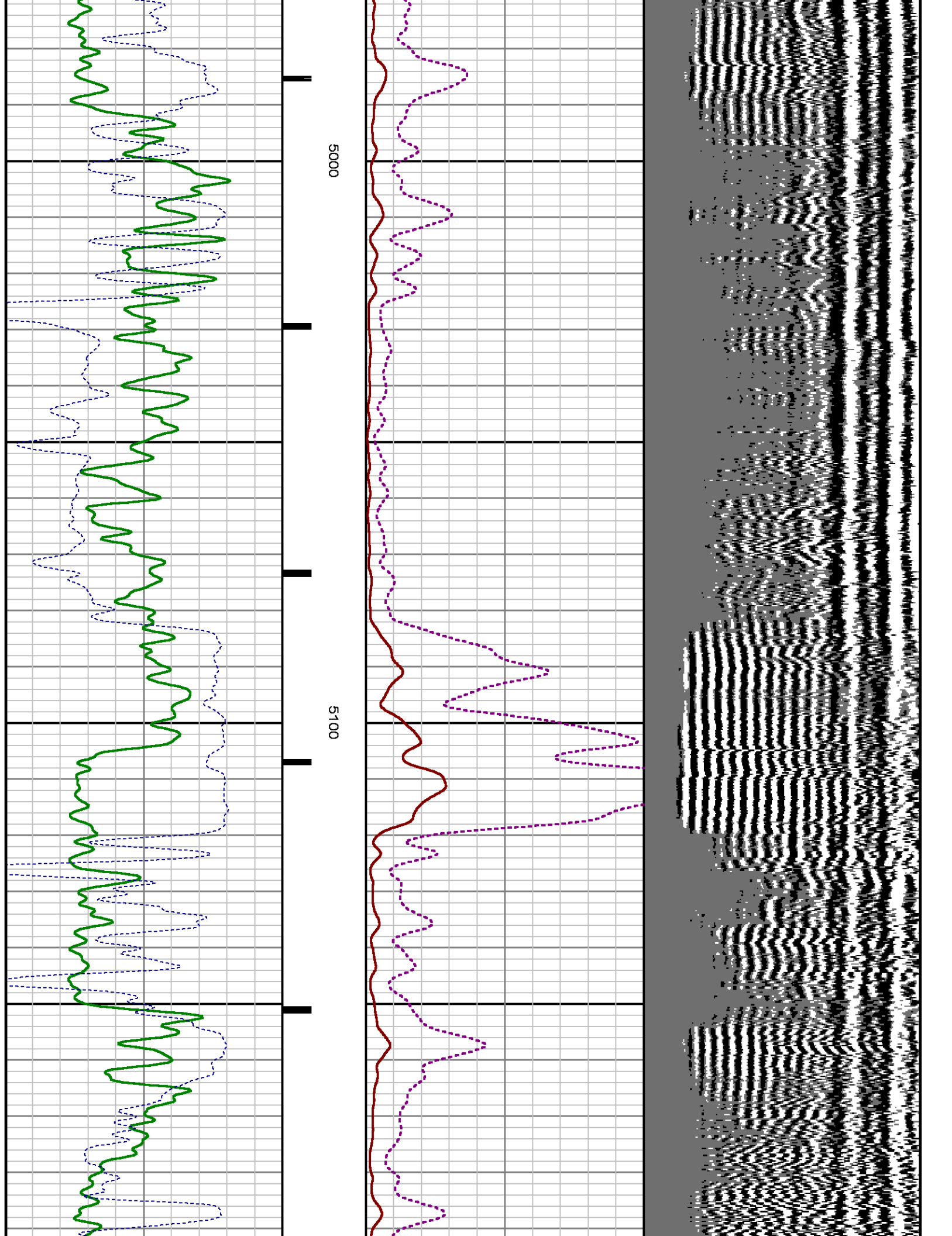


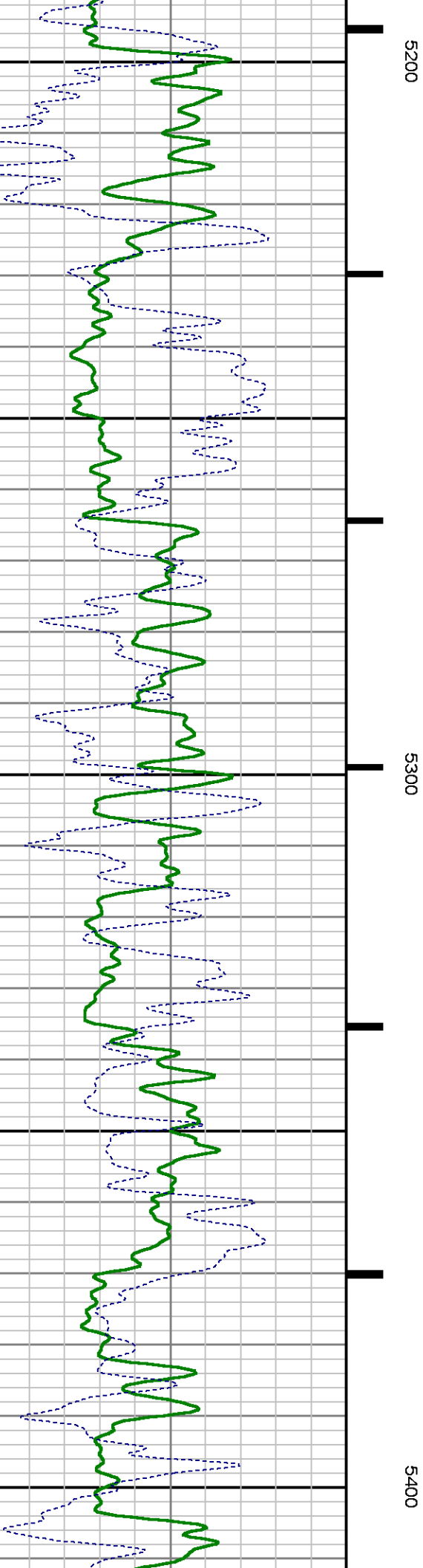
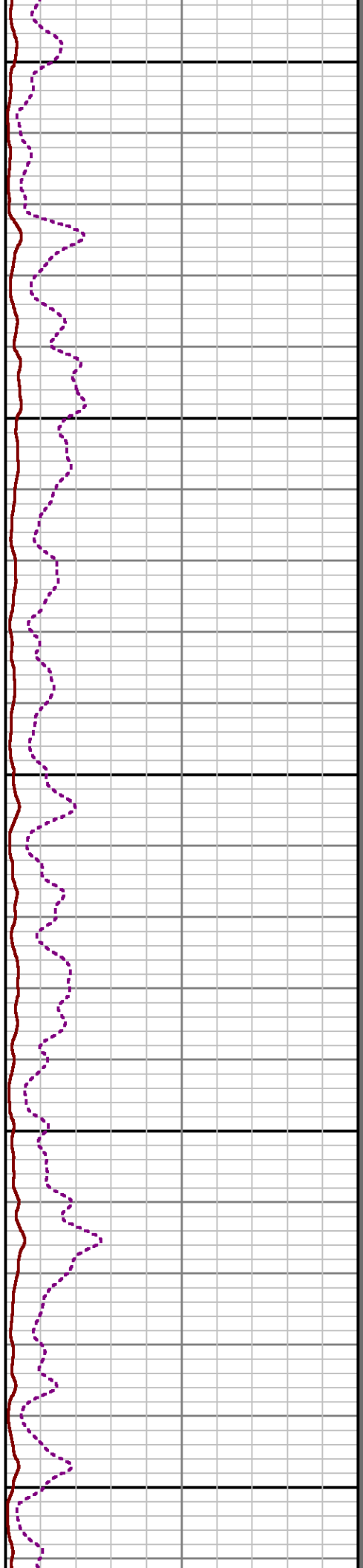
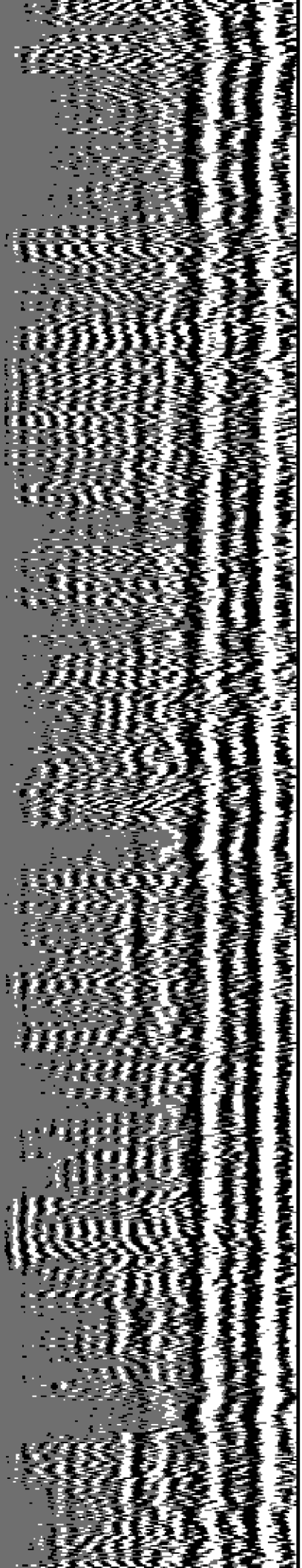




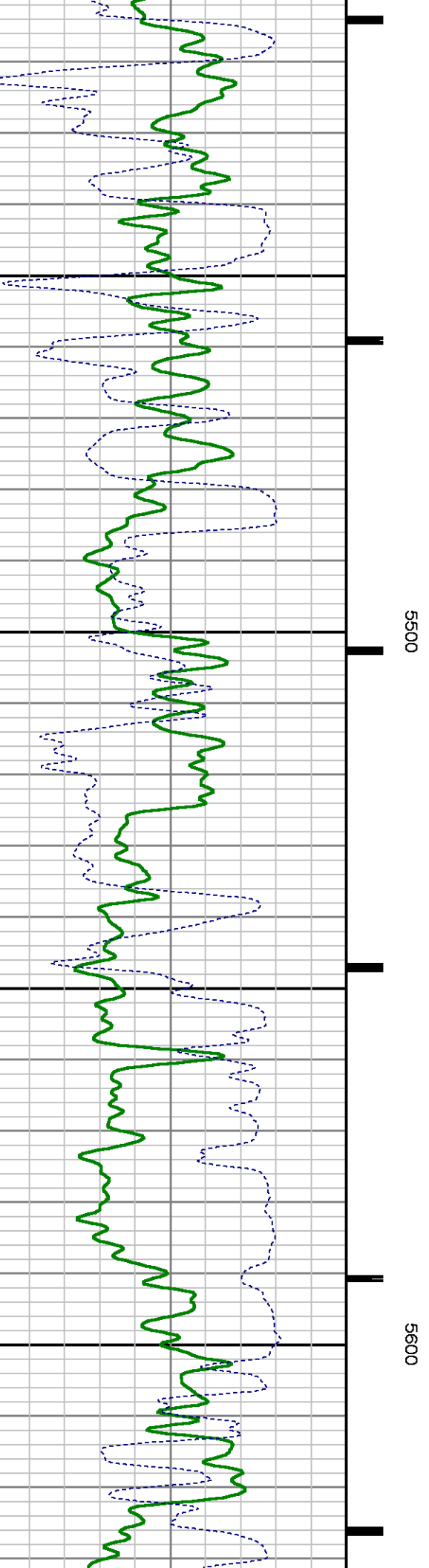
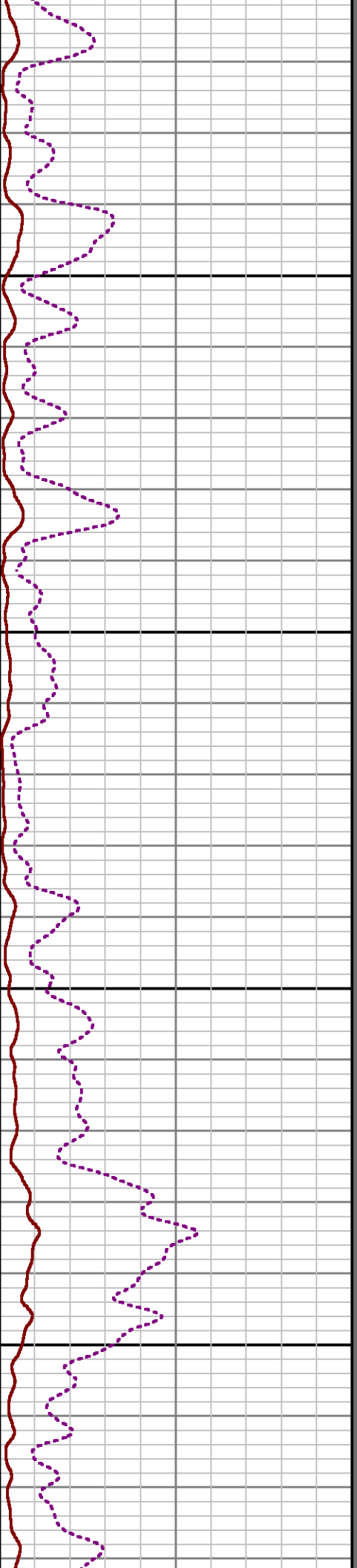
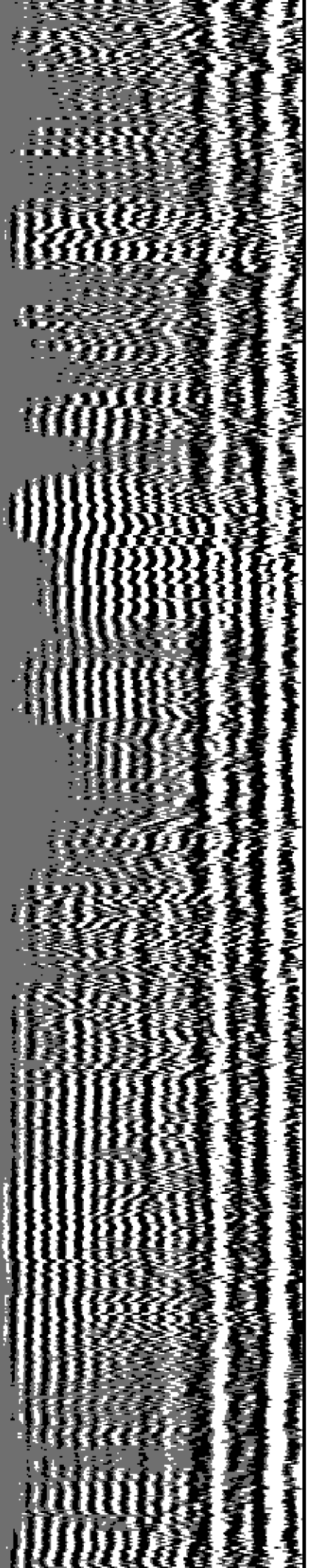


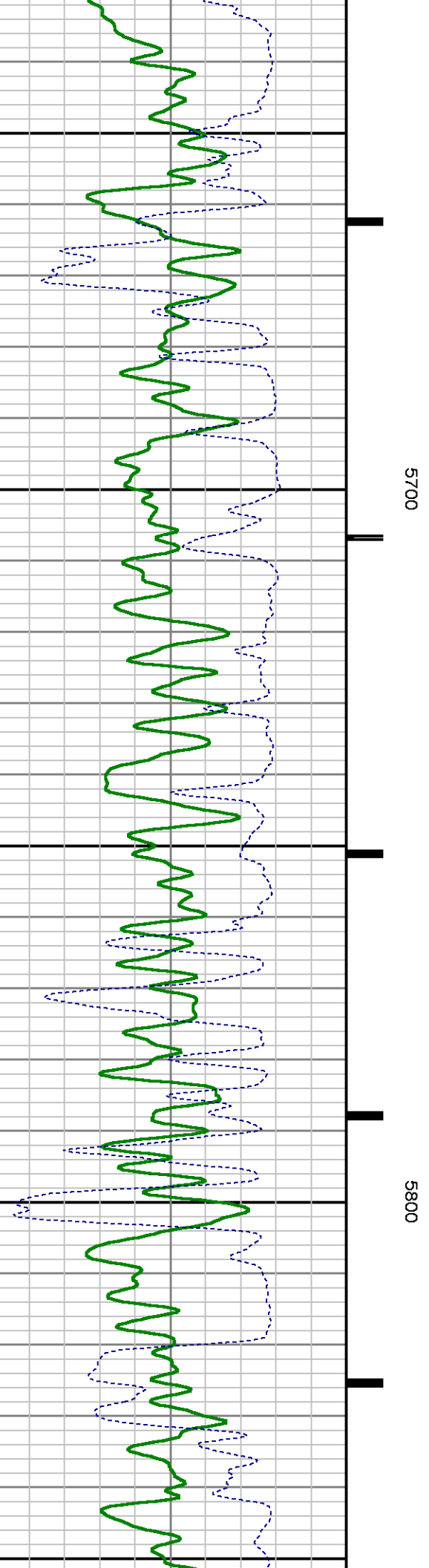
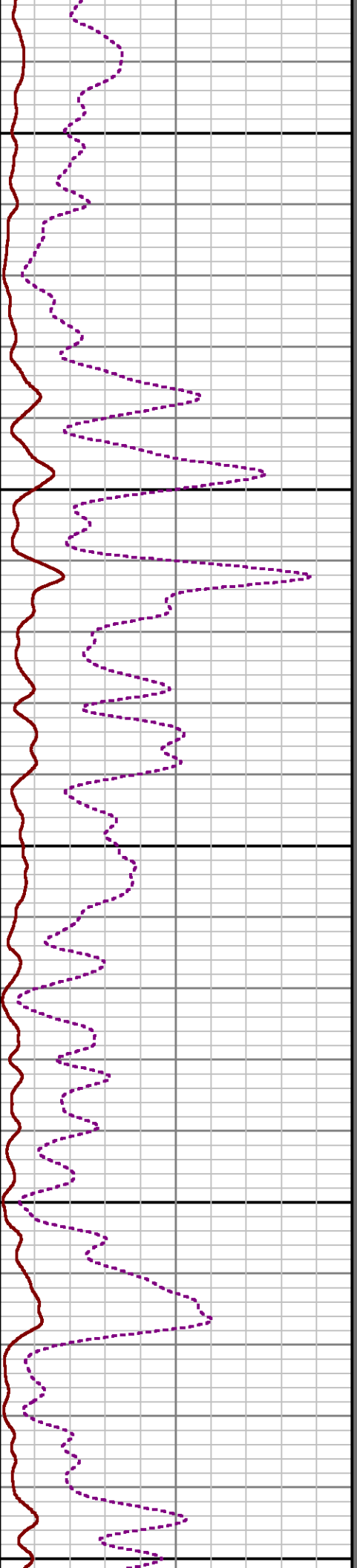
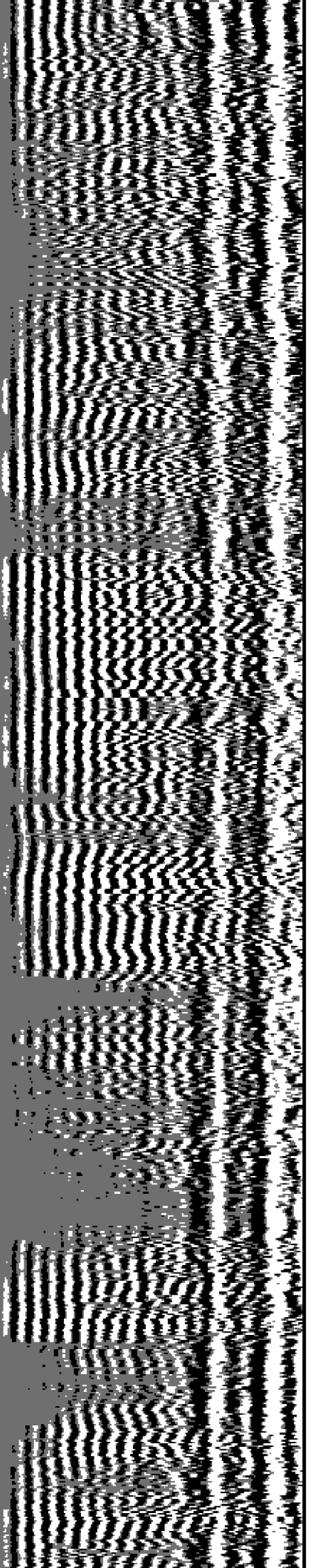




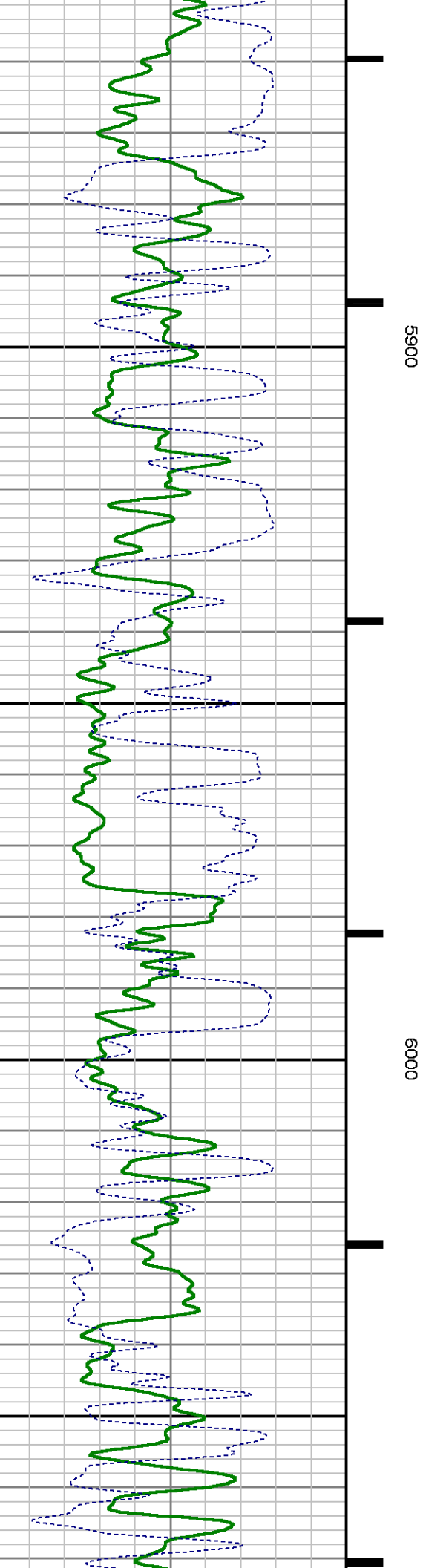
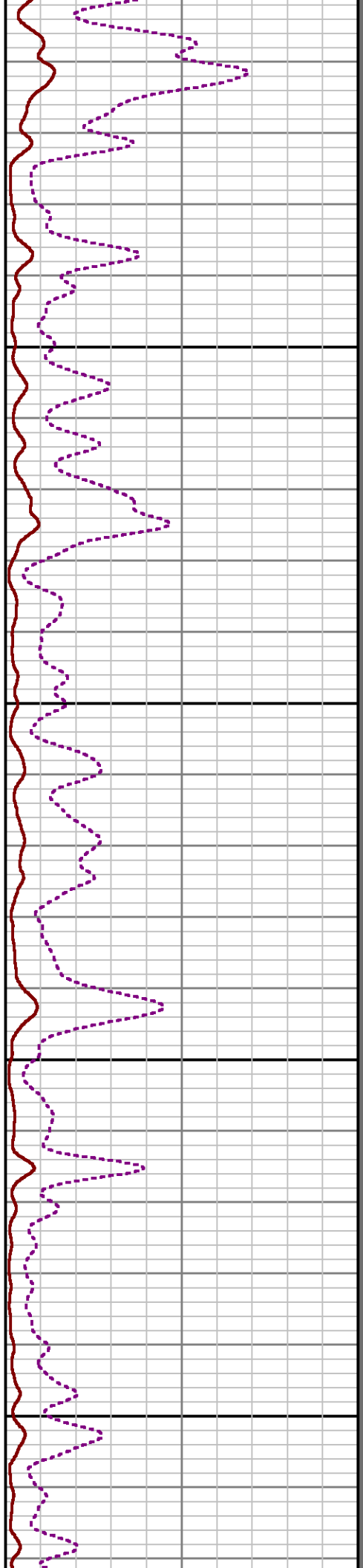
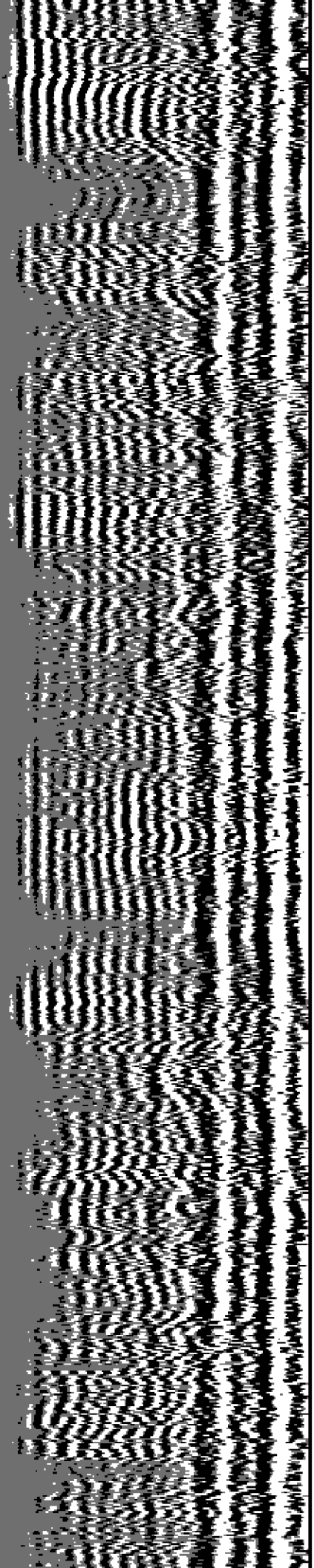


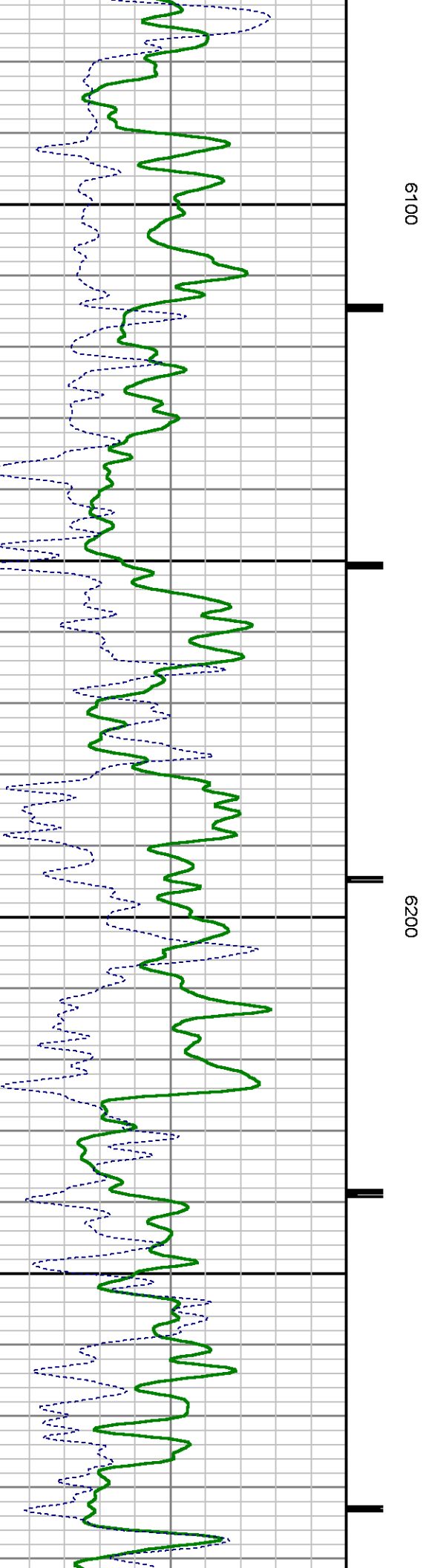
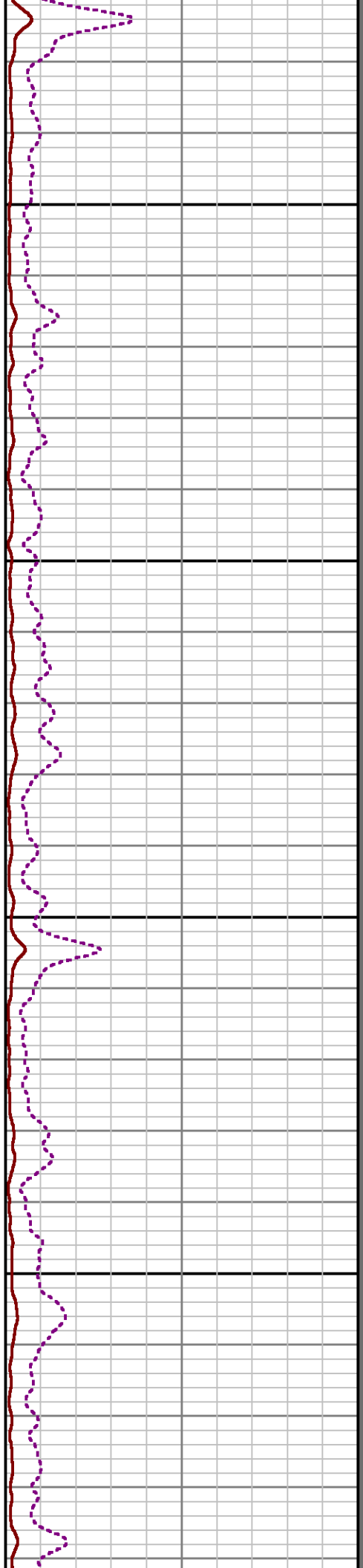
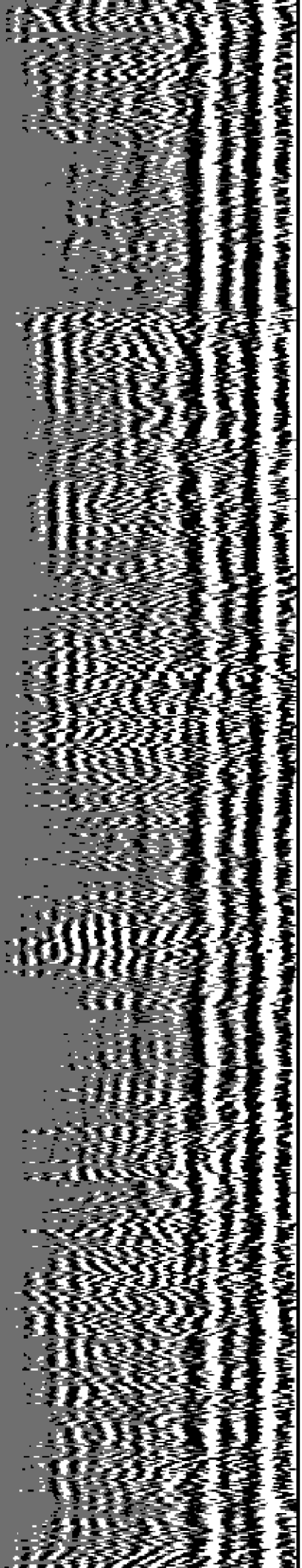


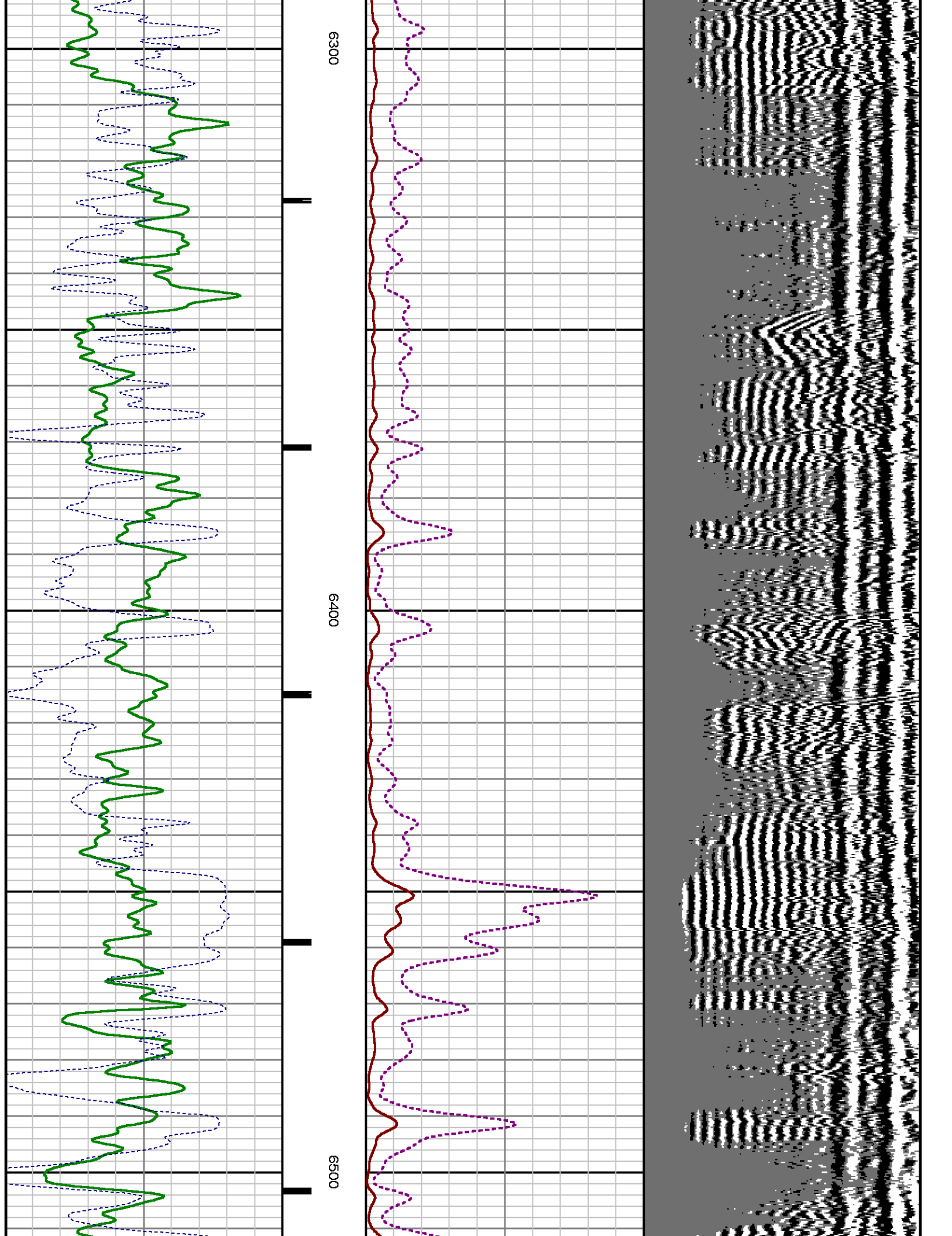


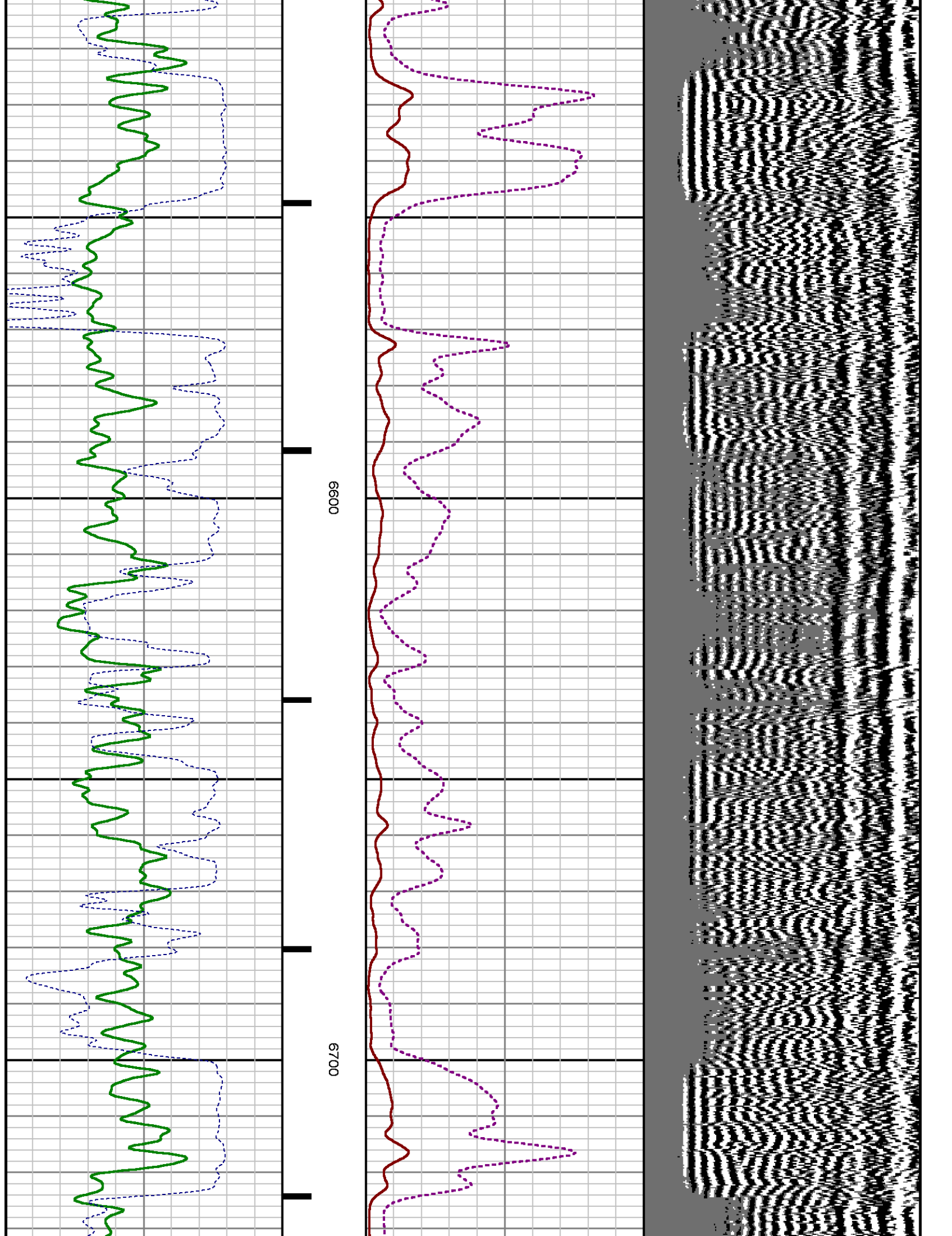


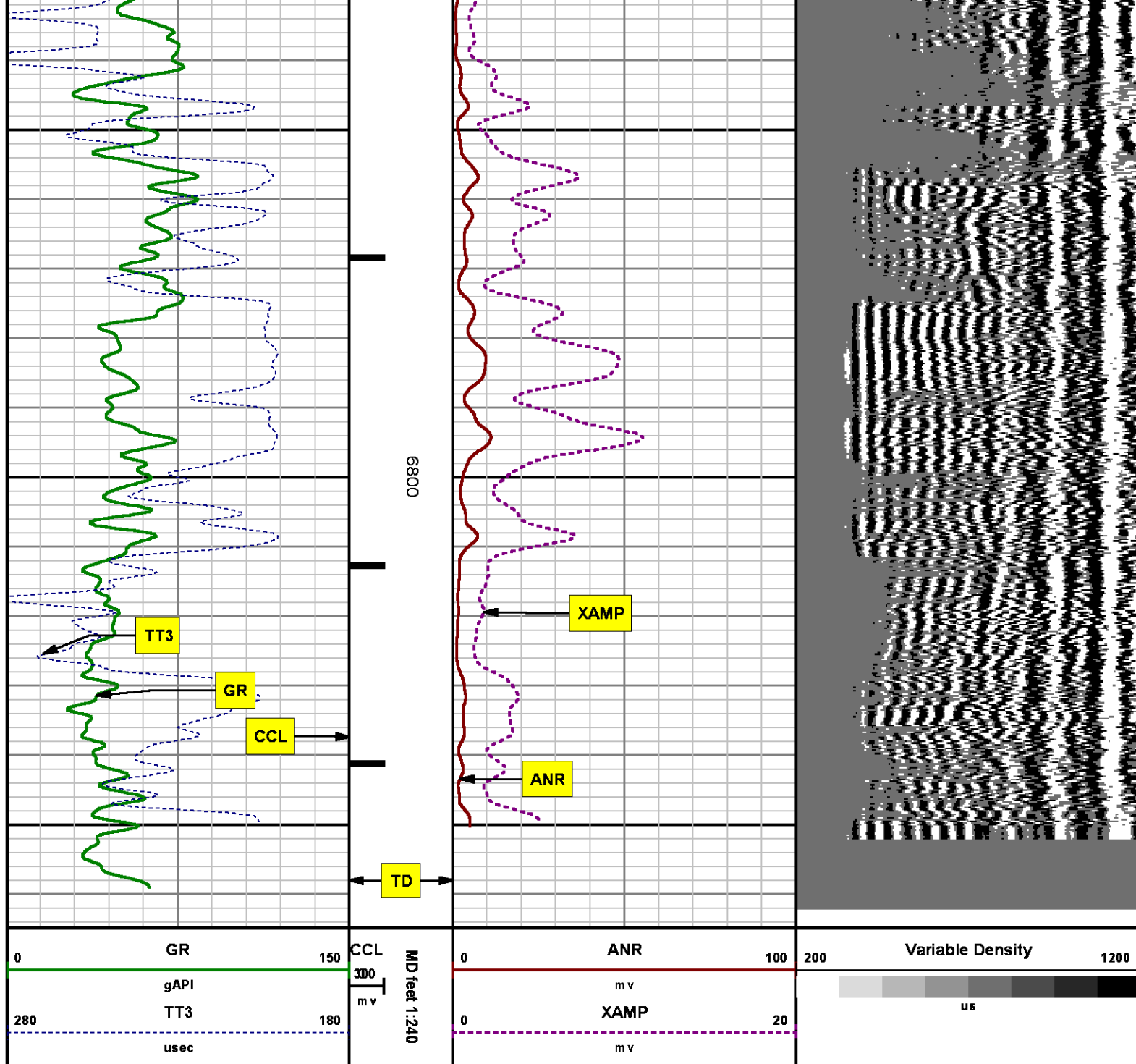












SECONDARY PRESENTATION  
0 PSI



MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	24.375	6861.000
RAL	Amp Gate Start Near	195.000	usec	24.375	6861.000
RAL	Amp Gate Start Radial	195.000	usec	24.375	6861.000
RAL	Amp Gate Width Far	25.000	usec	24.375	6861.000
RAL	Amp Gate Width Near	25.000	usec	24.375	6861.000
RAL	Amp Gate Width Radial	25.000	usec	24.375	6861.000
RAL	casing od	4.500	inches	24.375	6861.000
RAL	casing wt	11.600	lbm/ft	24.375	6861.000
RAL	FB Start Far	291.900	usec	24.375	6861.000
RAL	FB Start Near	180.000	usec	24.375	6861.000
RAL	FB Start Radial	180.000	usec	24.375	6861.000
RAL	FB Thresh Far	10.000	mV	24.375	6861.000
RAL	FB Thresh Near	4.000	mV	24.375	6861.000
RAL	FB Thresh Radial	4.000	mV	24.375	6861.000
RAL	Fluid Travel Time	200.000	usec/ft	24.375	6861.843

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

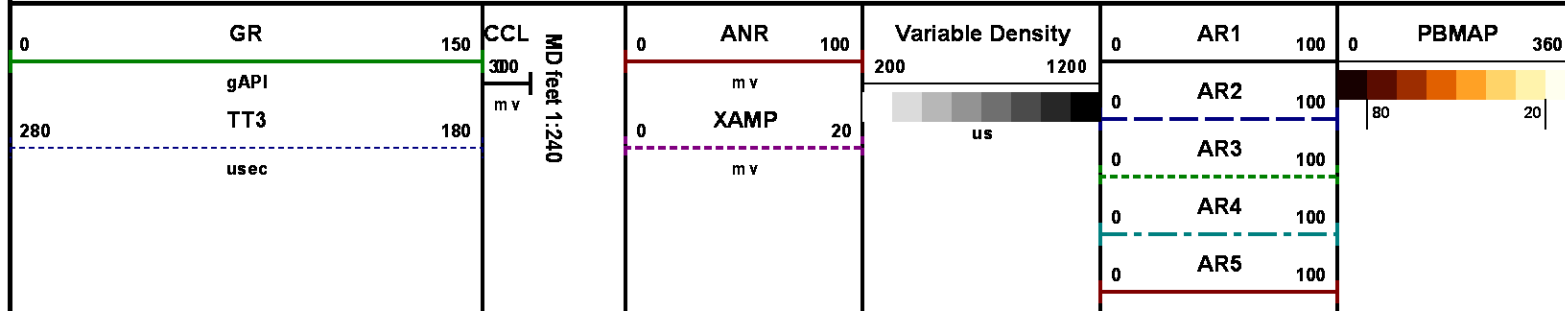
Well : HICKS PA 333-6

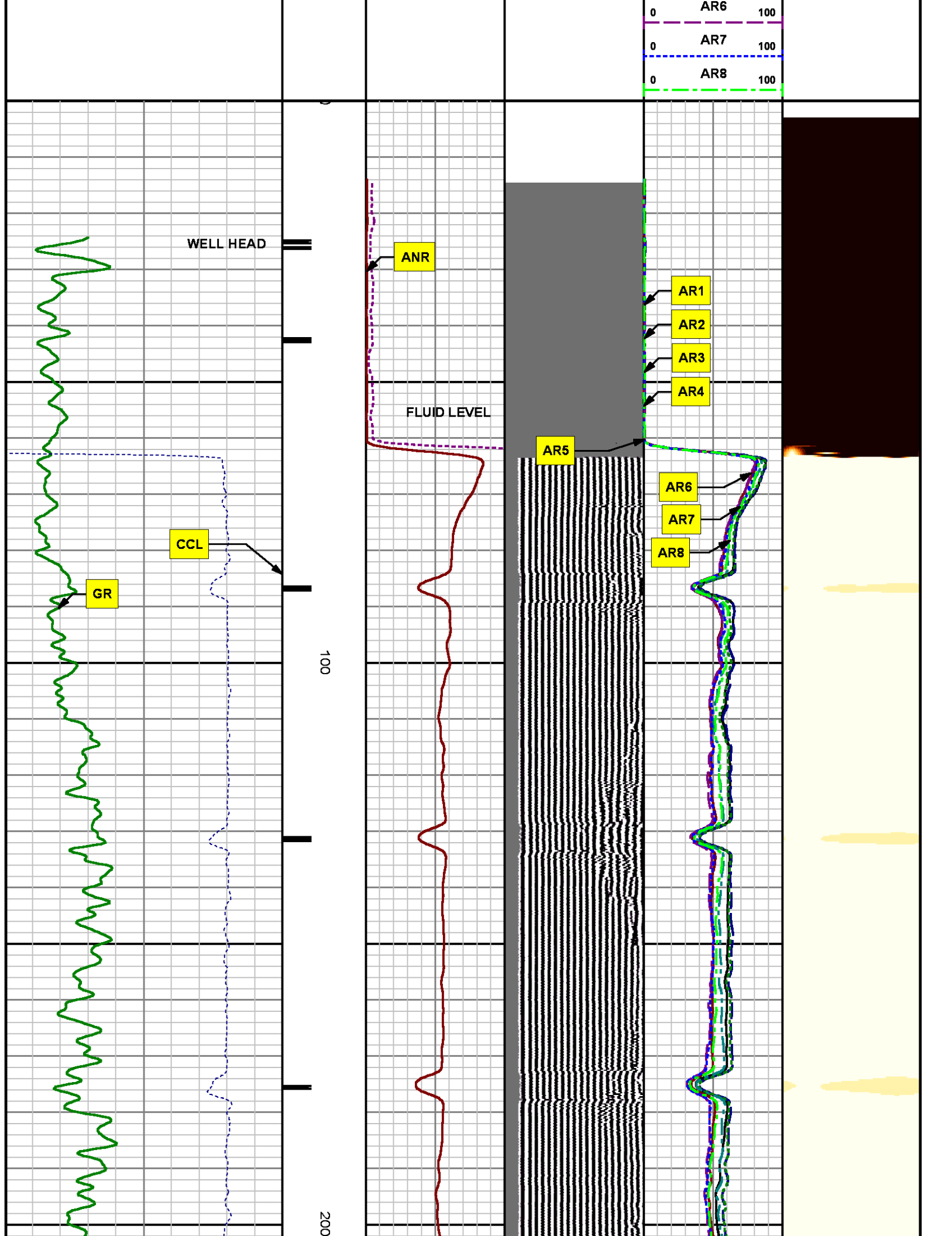
File Name : d:\welldata\wpx\pa 333-6\ral333\main.xtf

Mode : PlotMgr 5.4.504

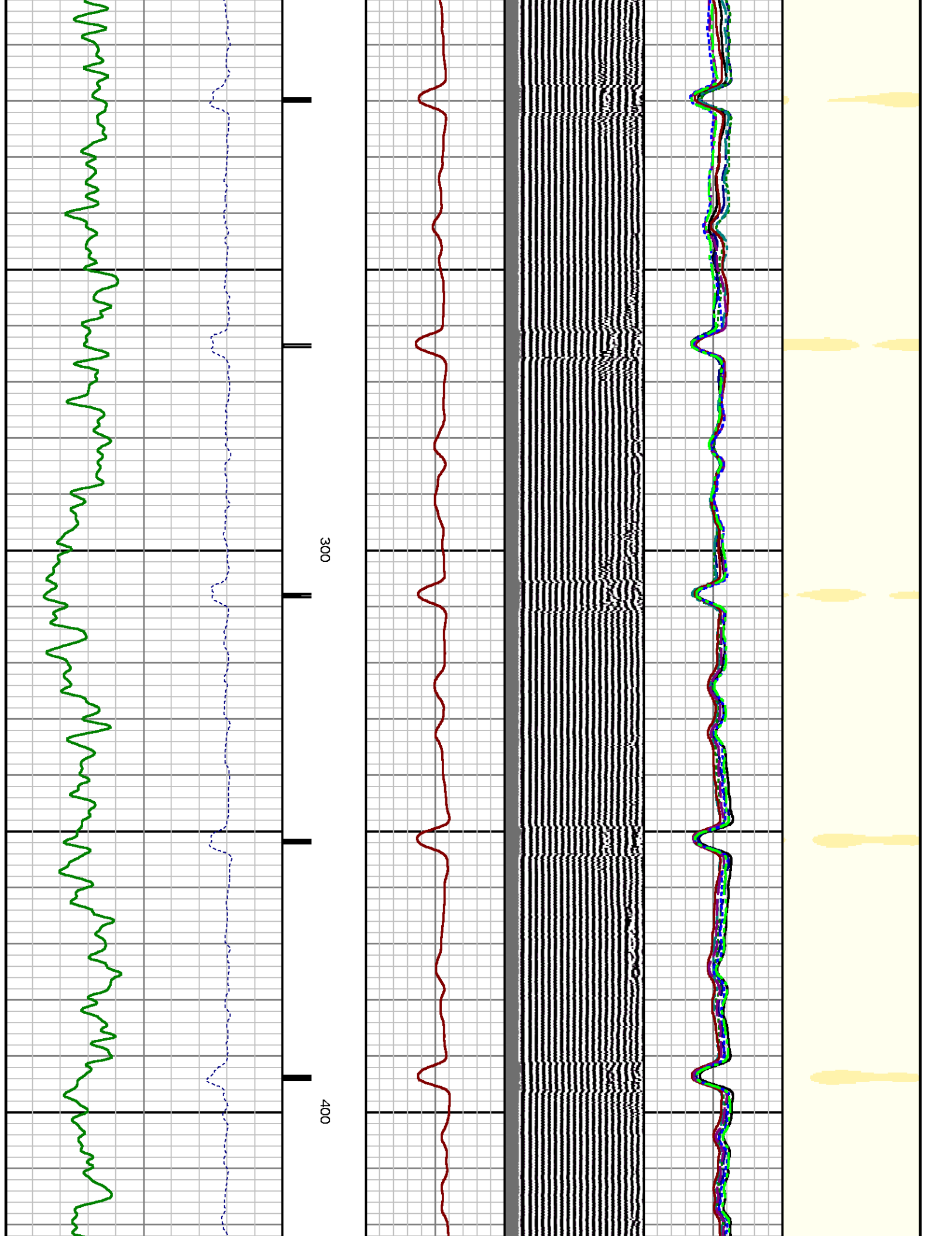
Interval : 0.00 - 6865.00 feet UP

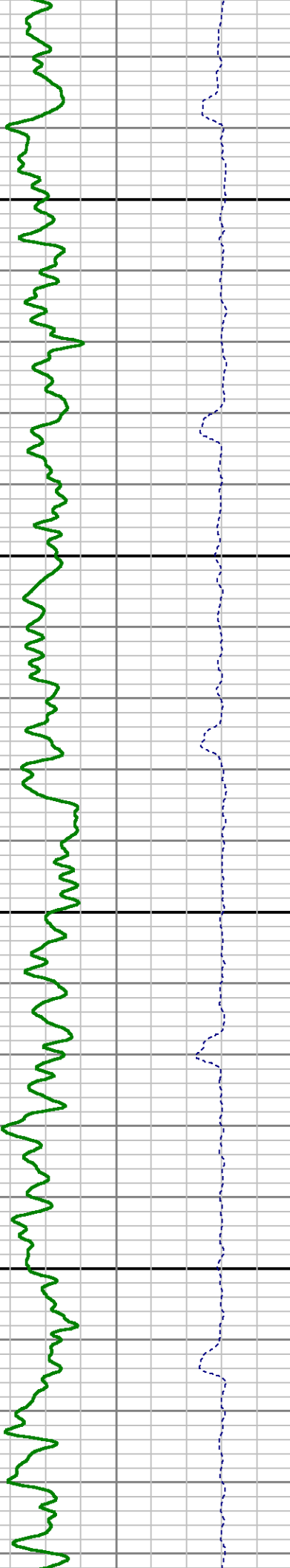
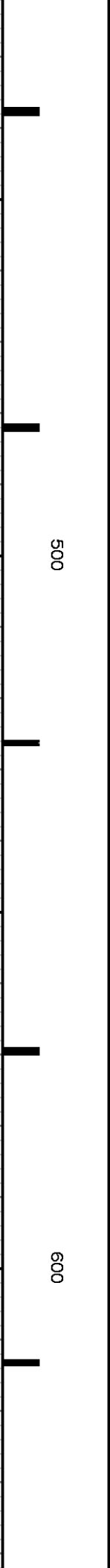
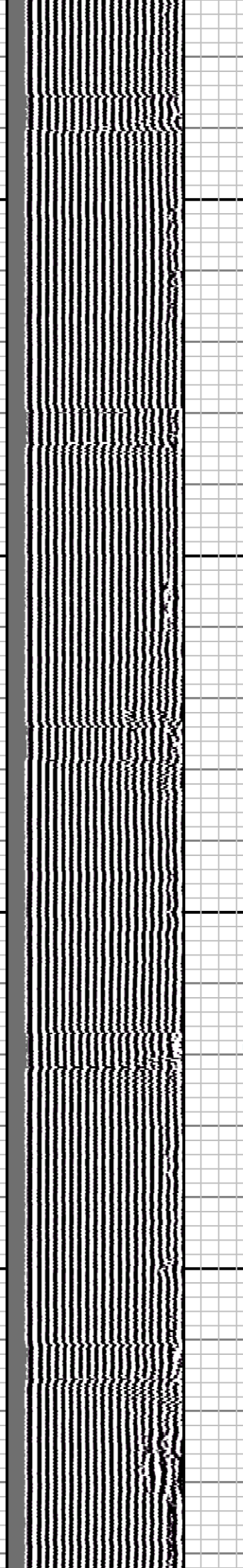
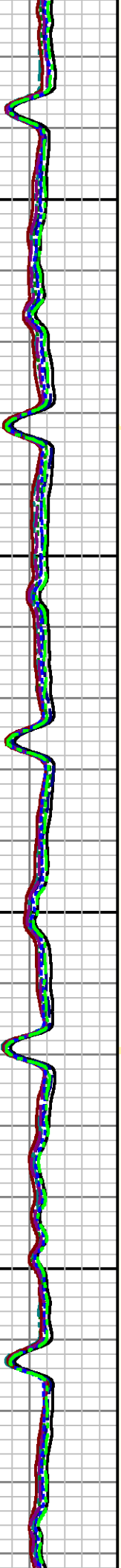
Created : 8/19/2014 9:34:49 AM

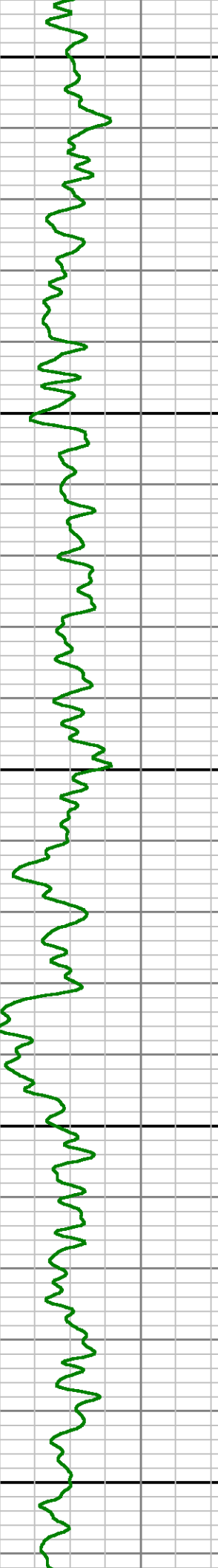
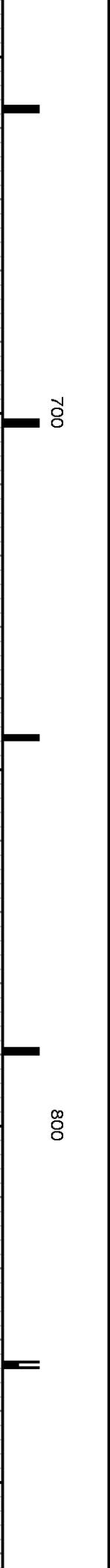
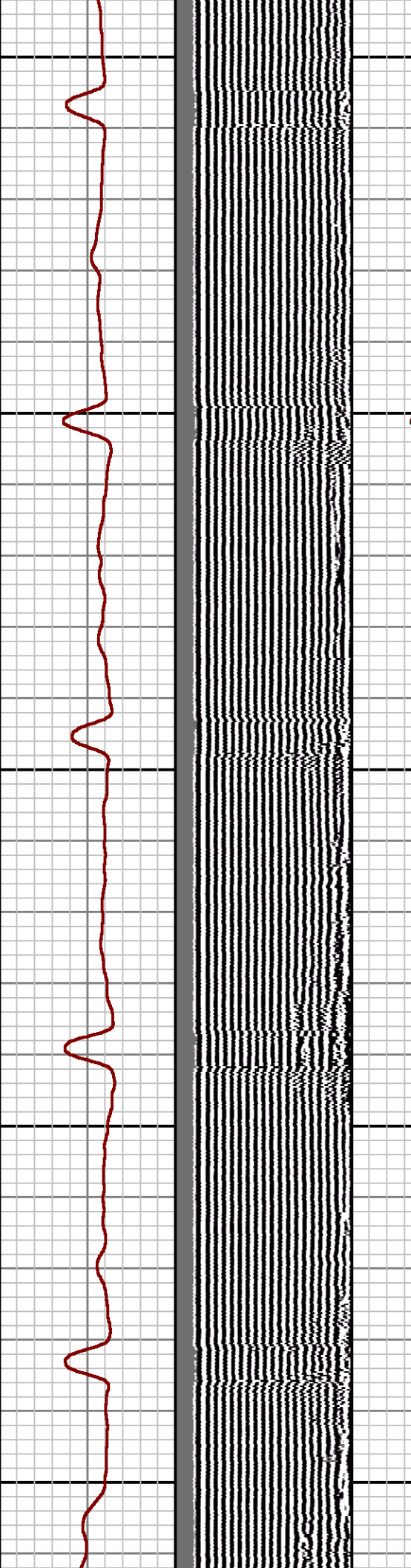
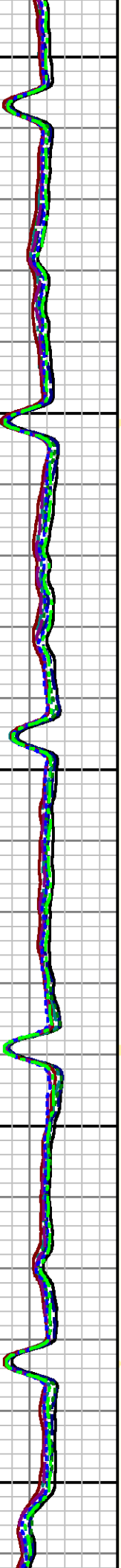
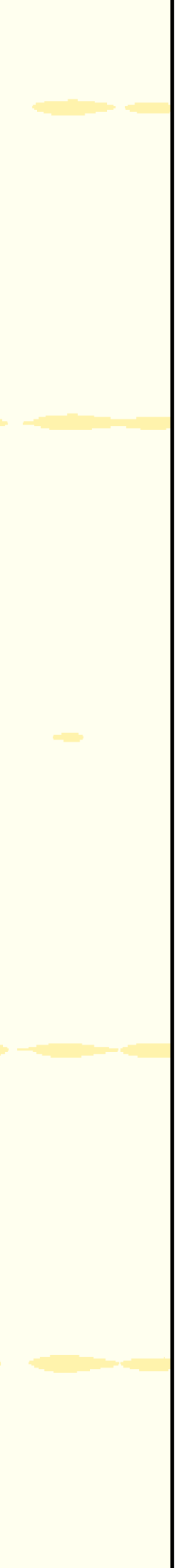






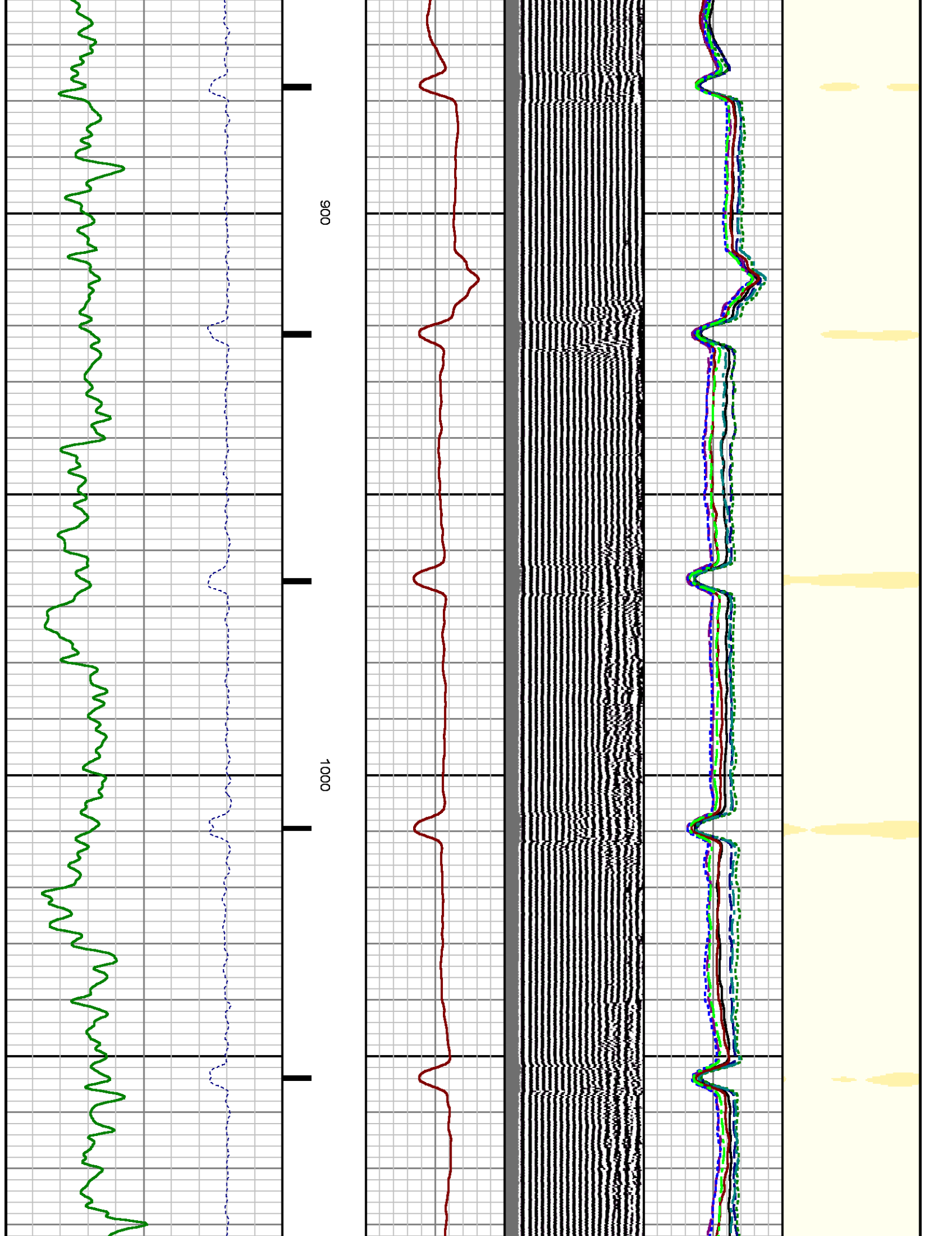


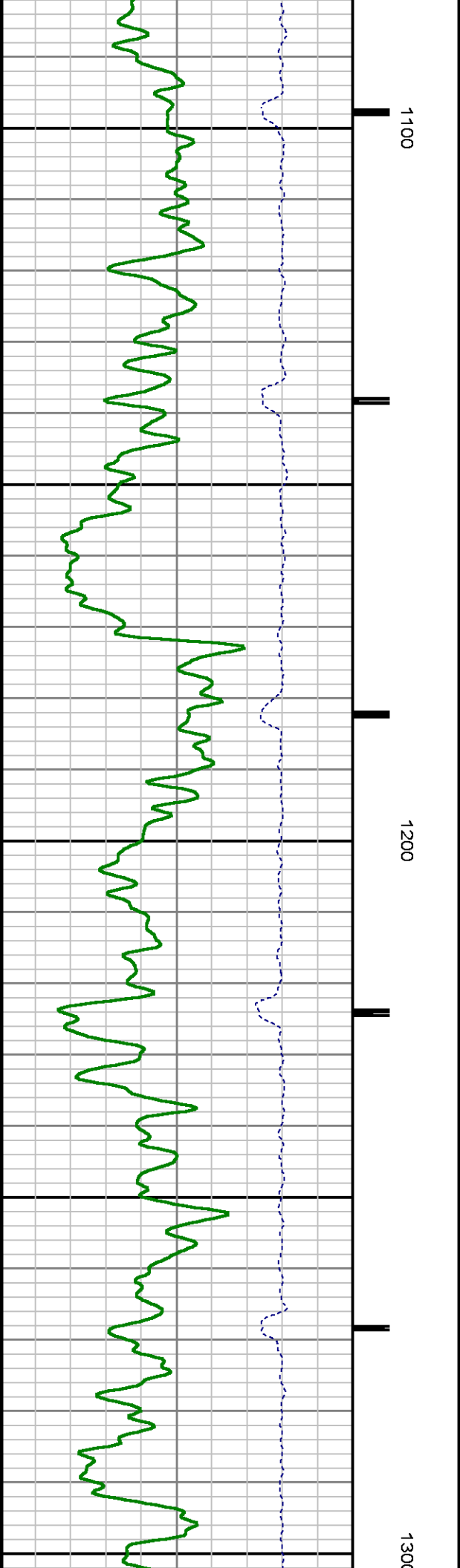
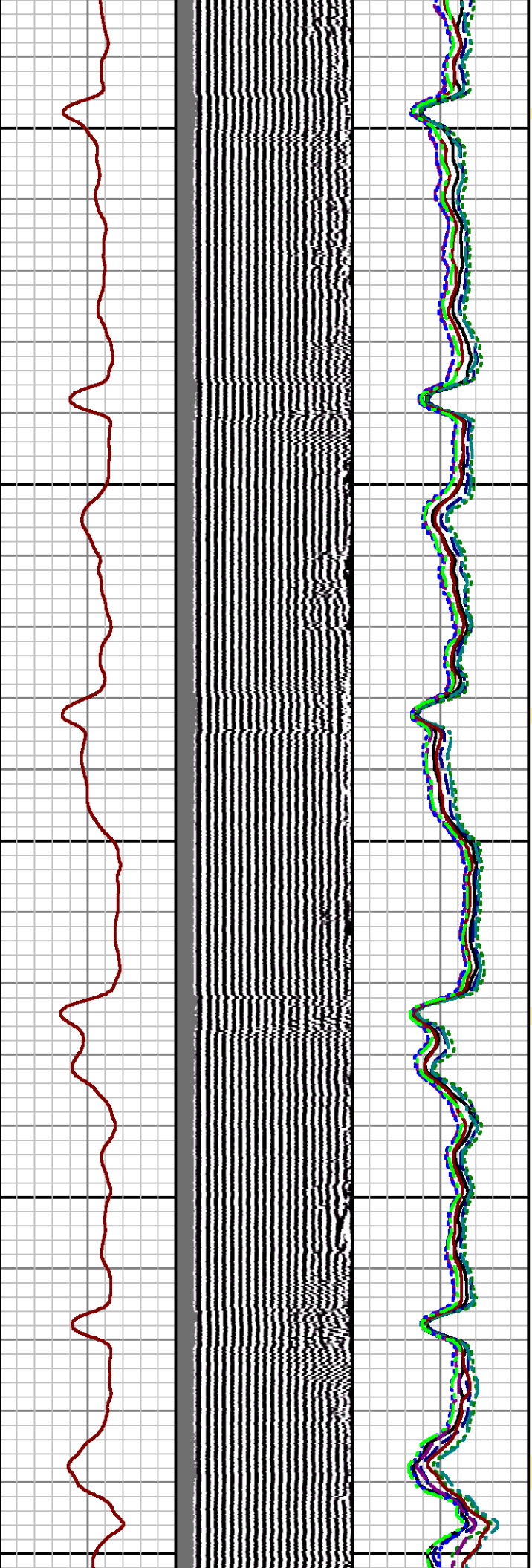




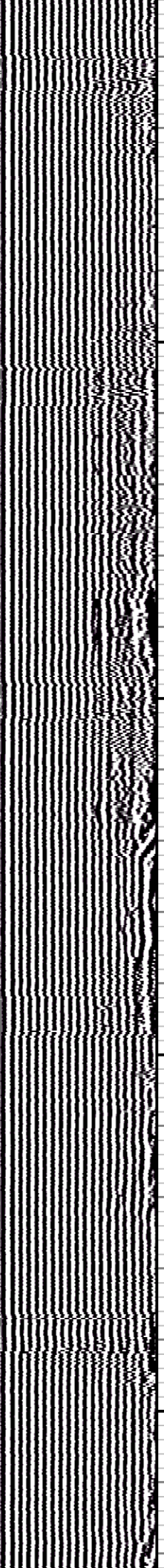
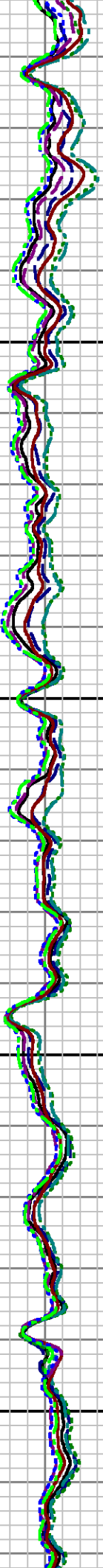
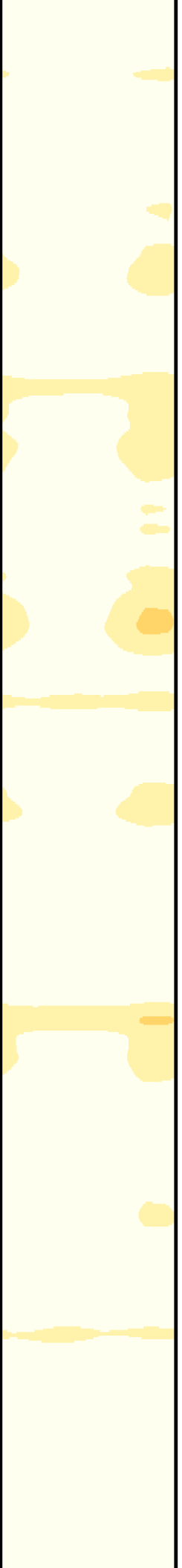
700

800



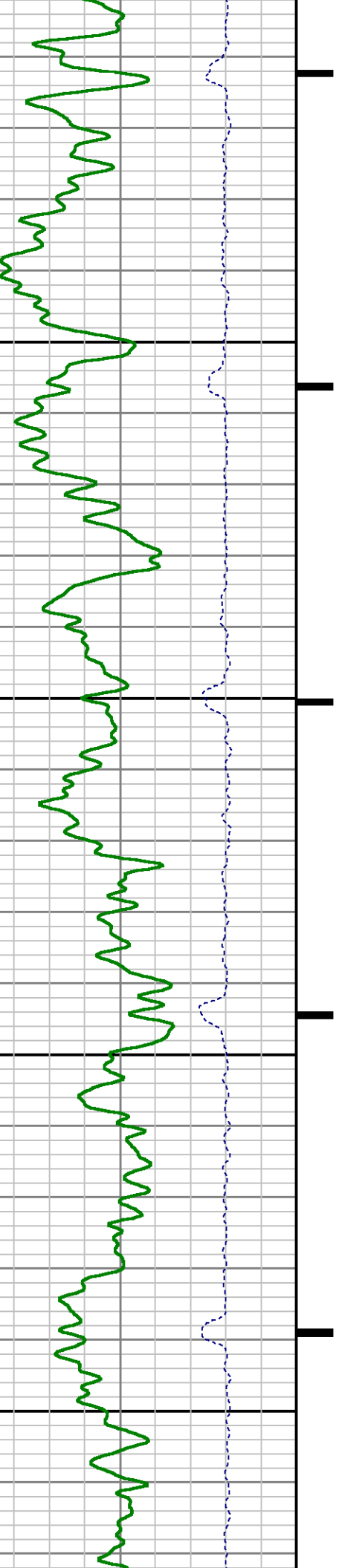


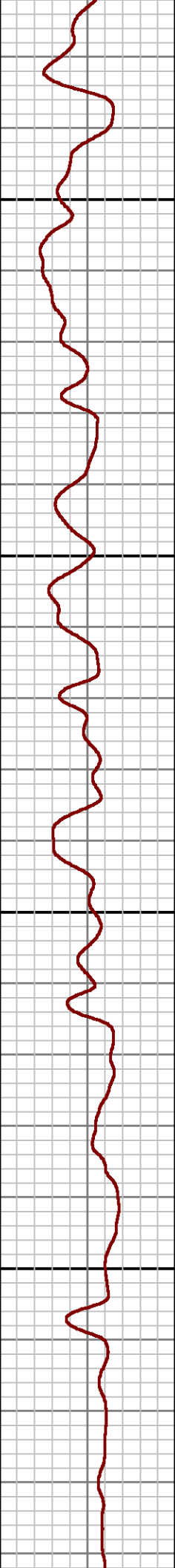
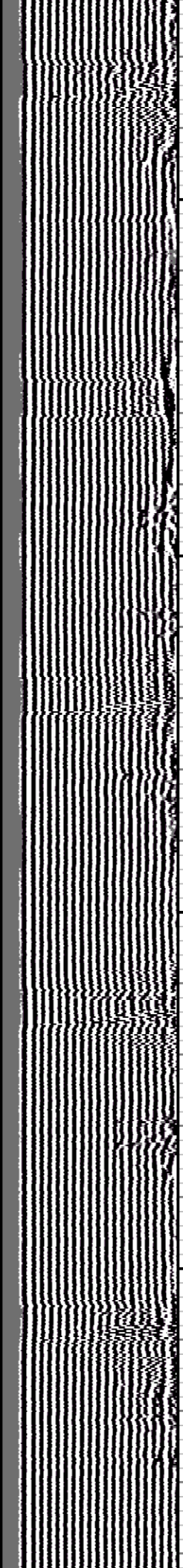
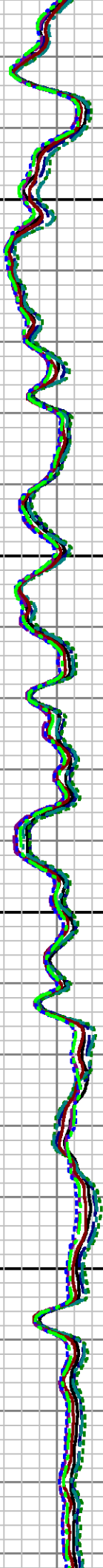
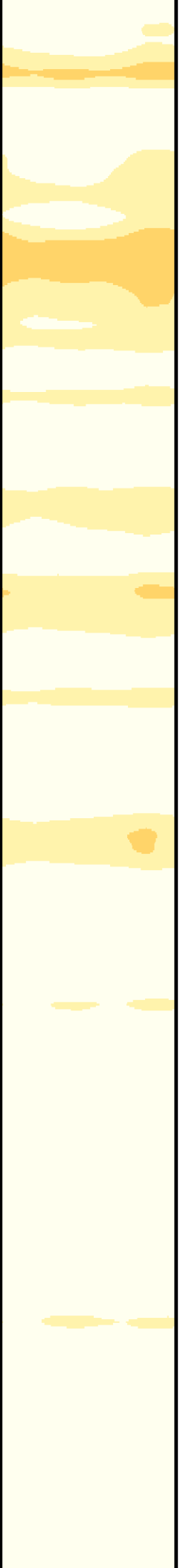




1400

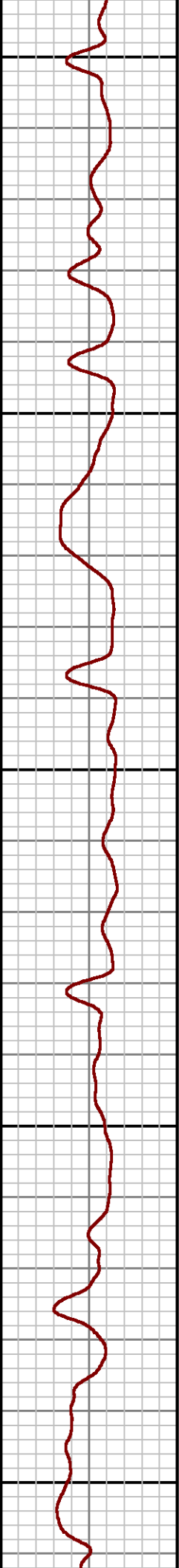
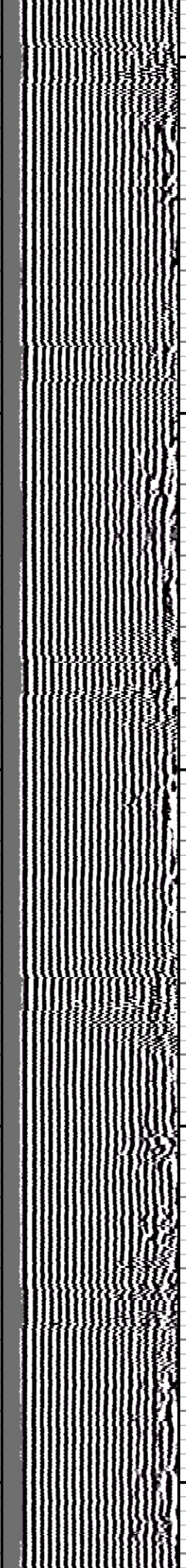
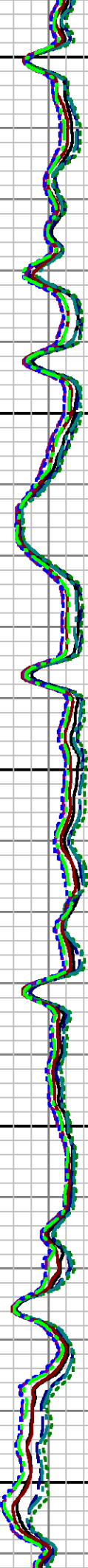
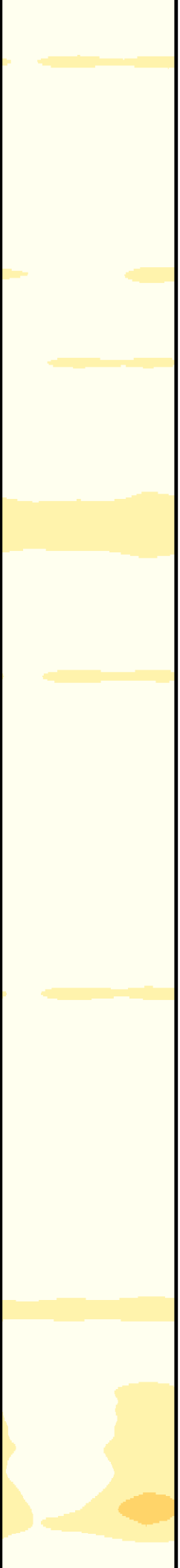
1500





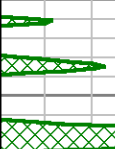
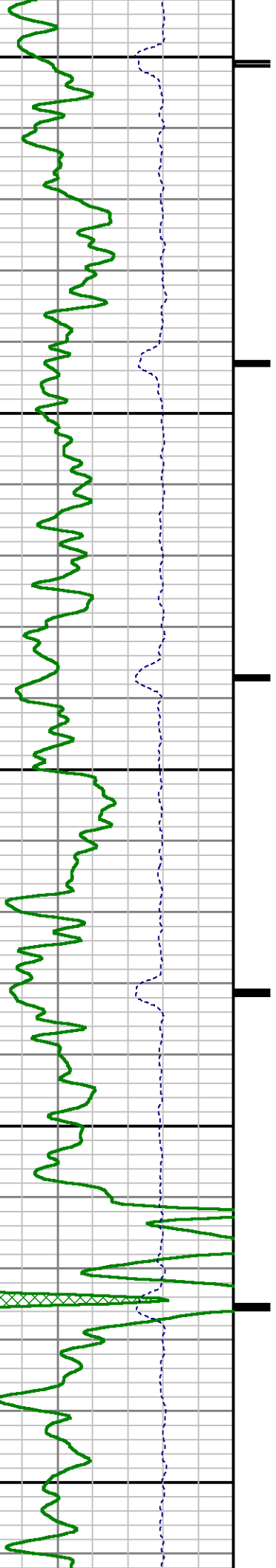
1600

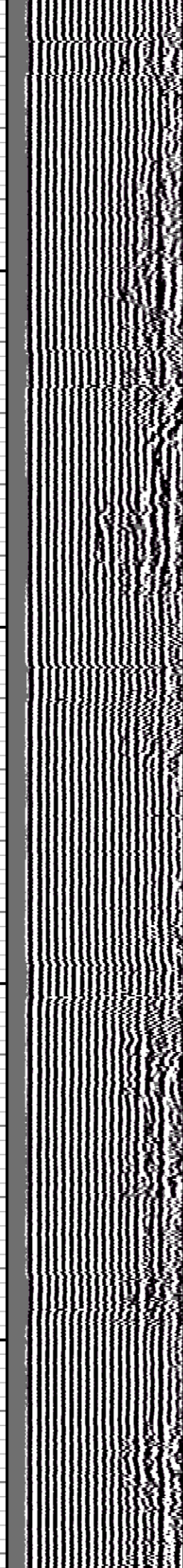
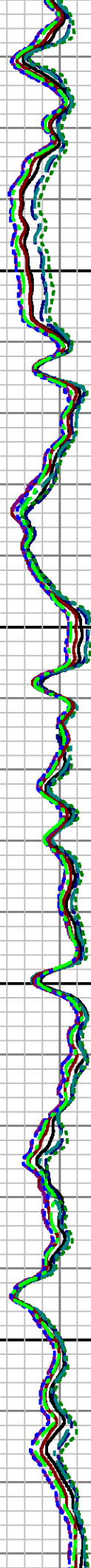
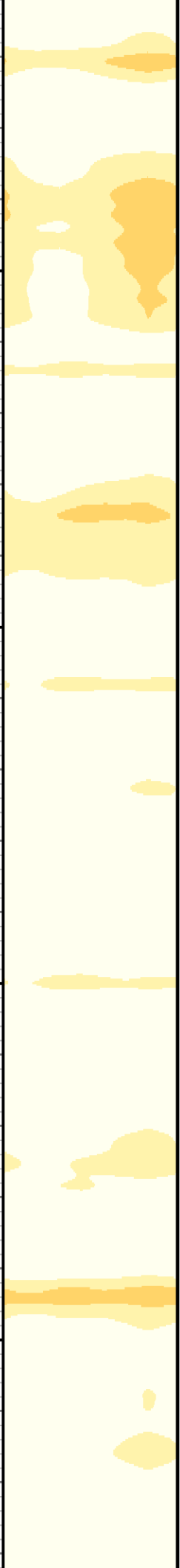
1700



1800

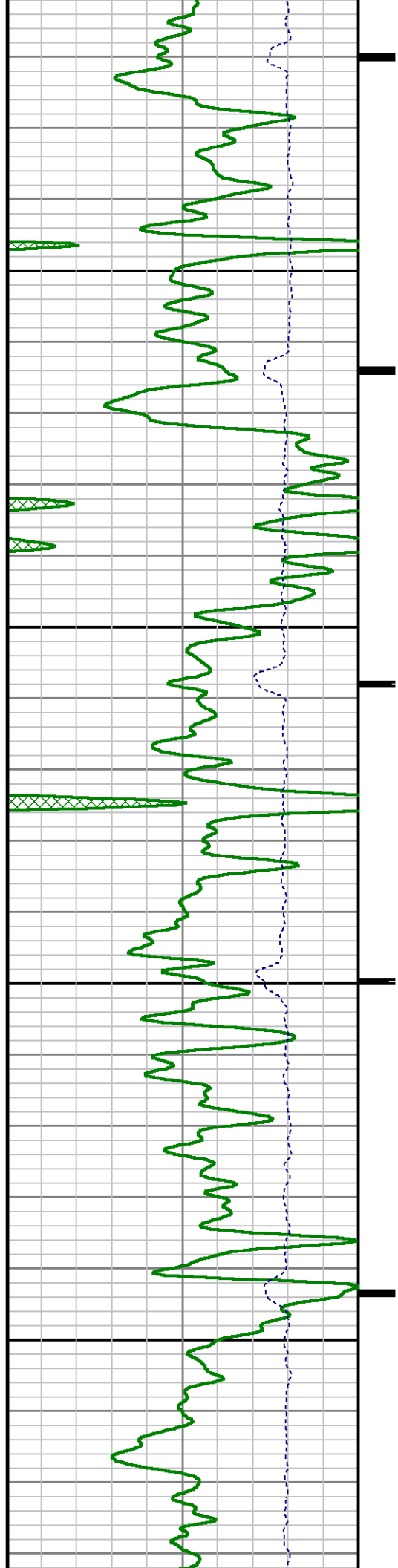
1900



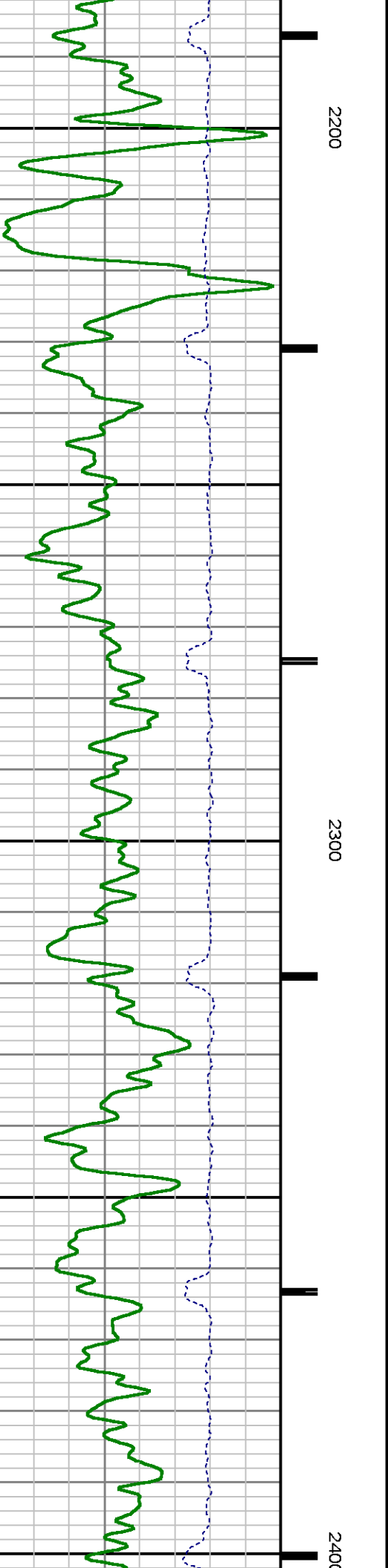
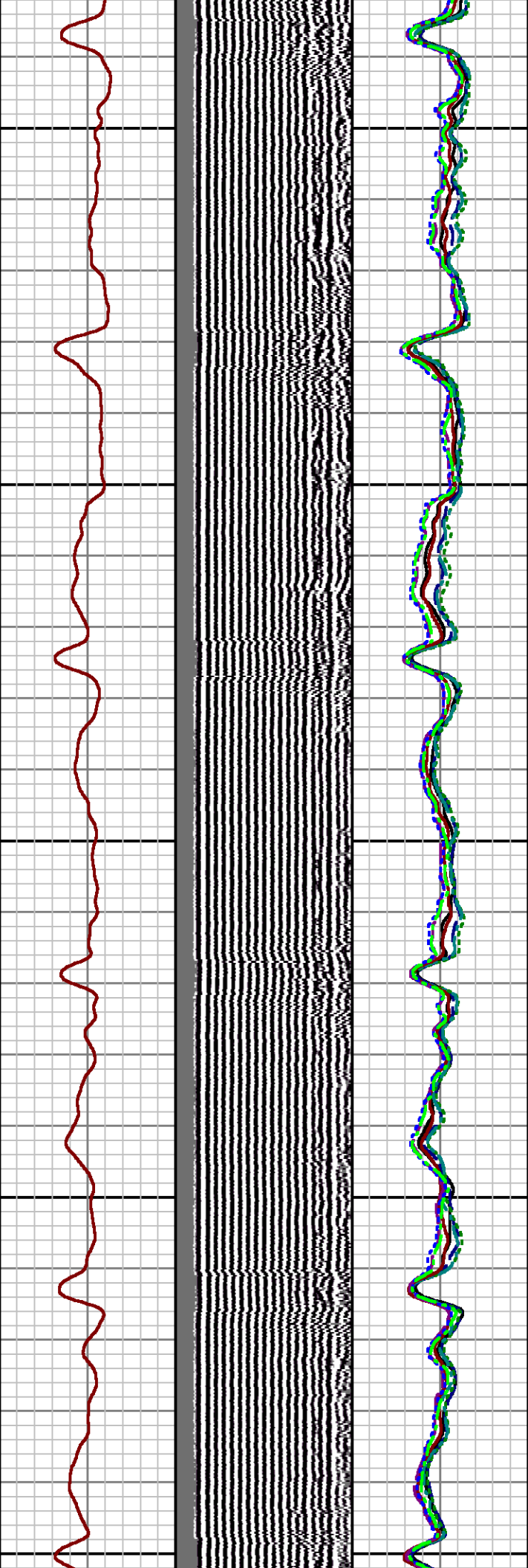
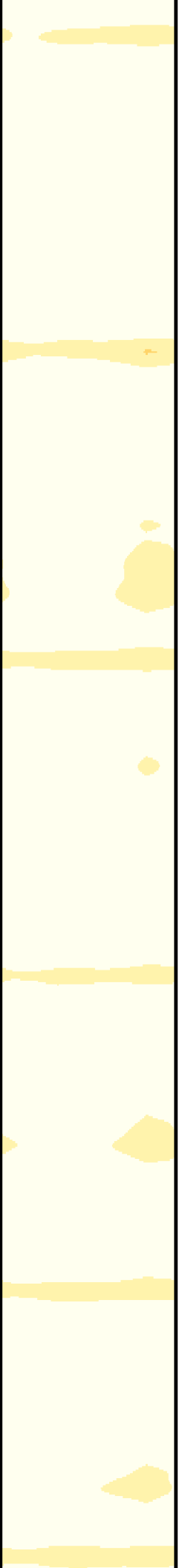


2000

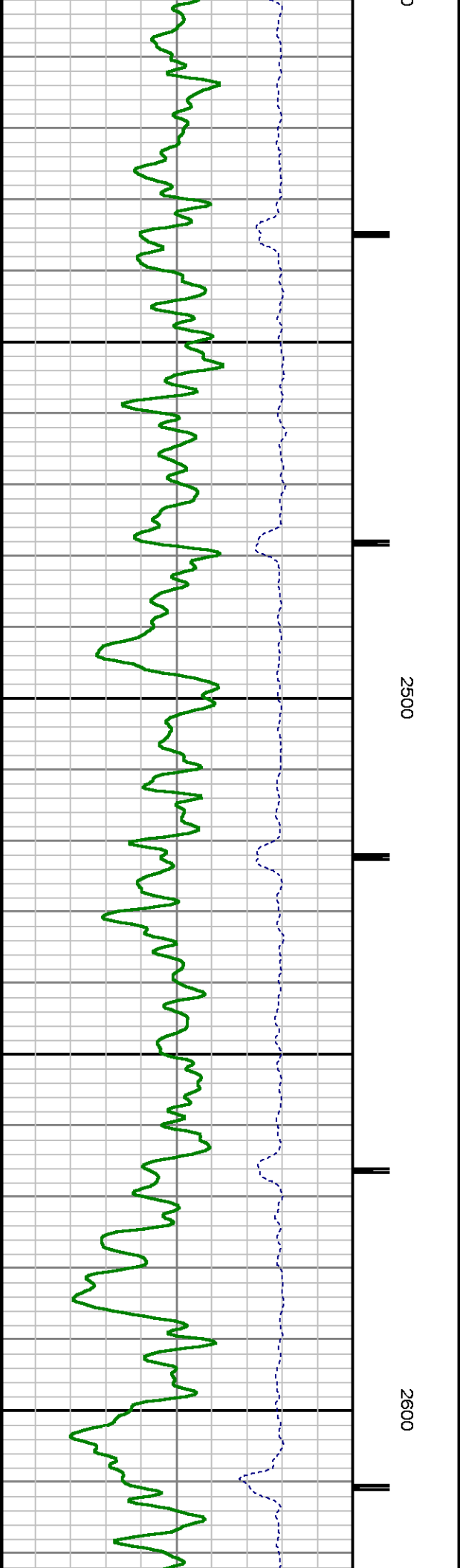
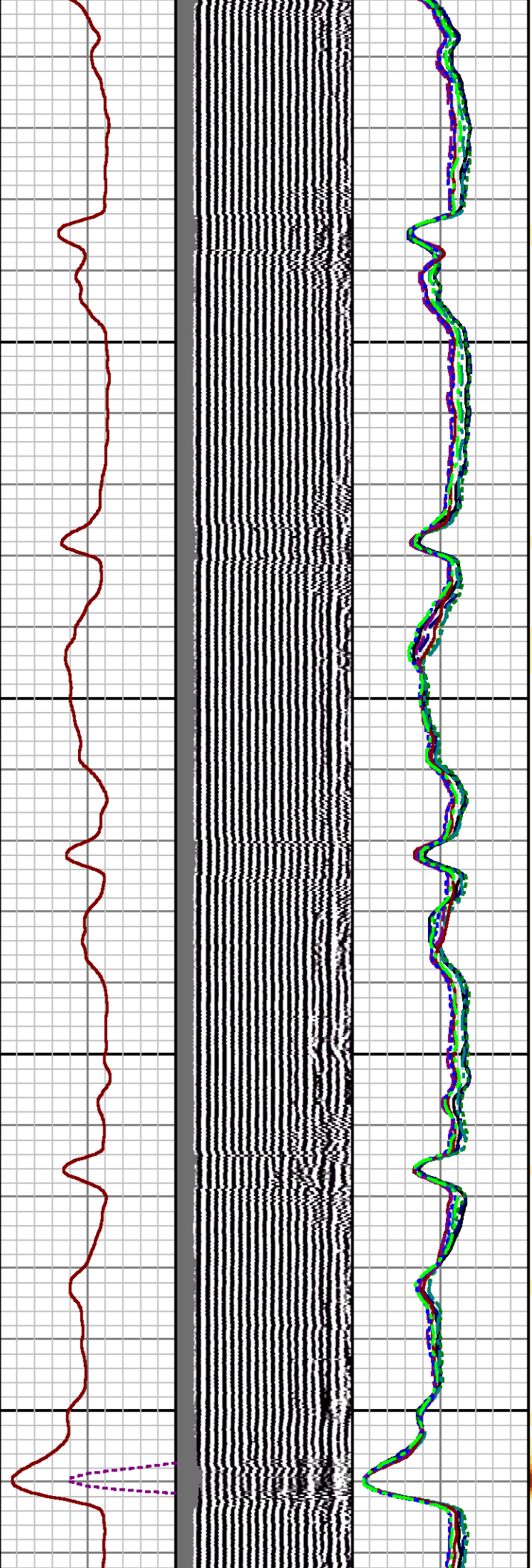
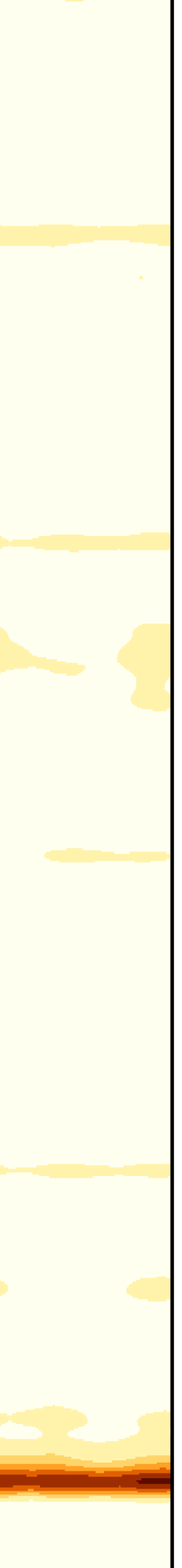
2100

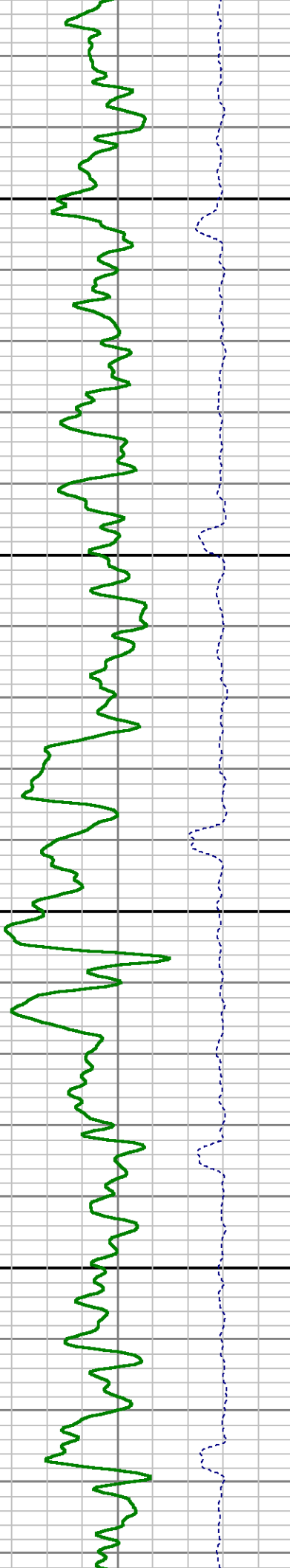
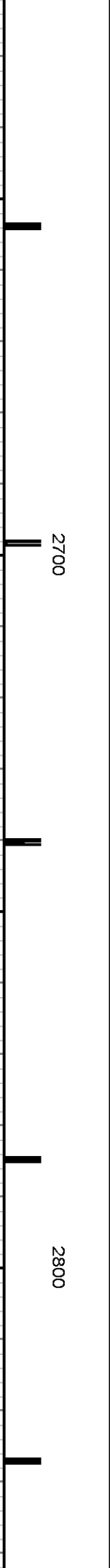
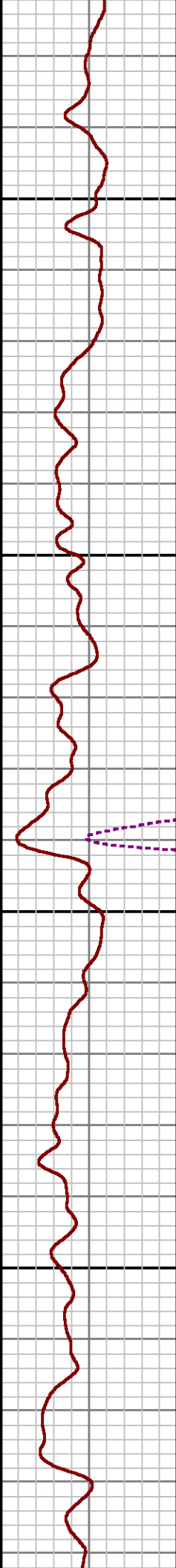
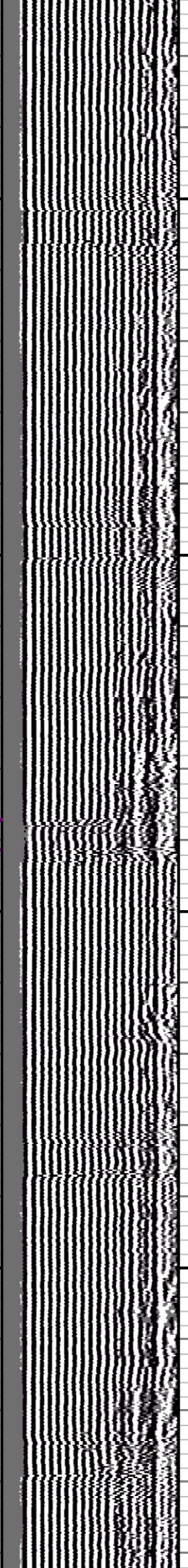
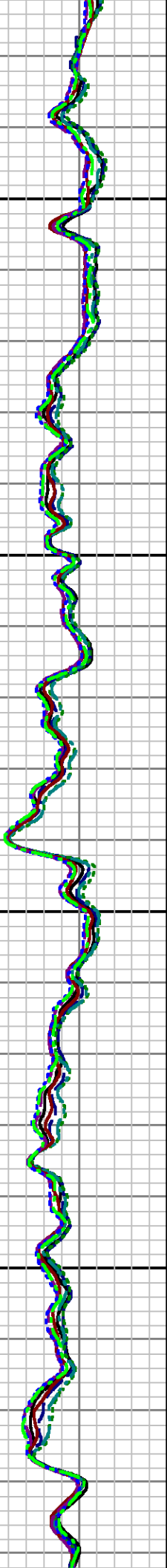






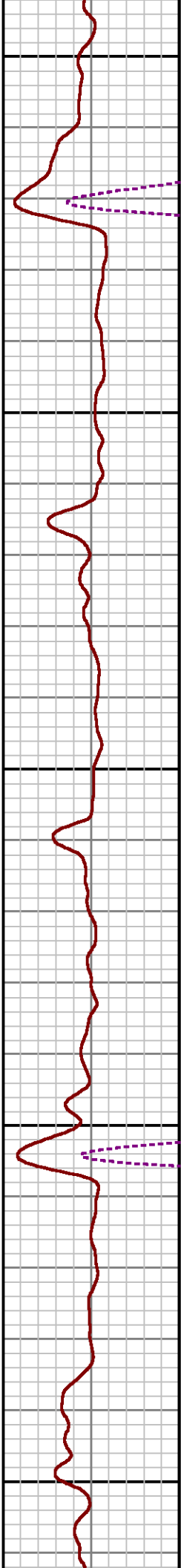
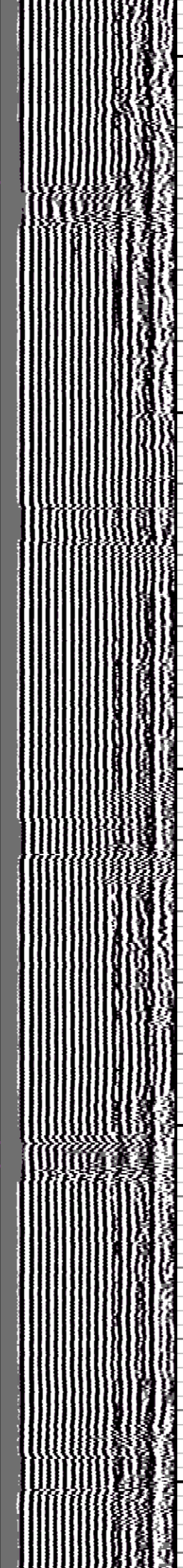
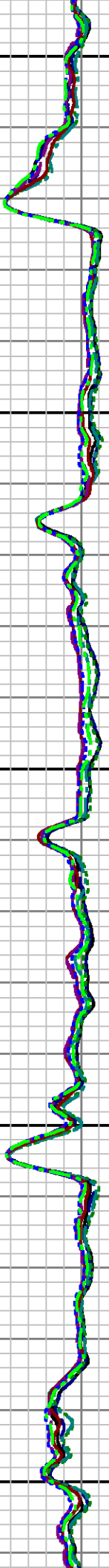
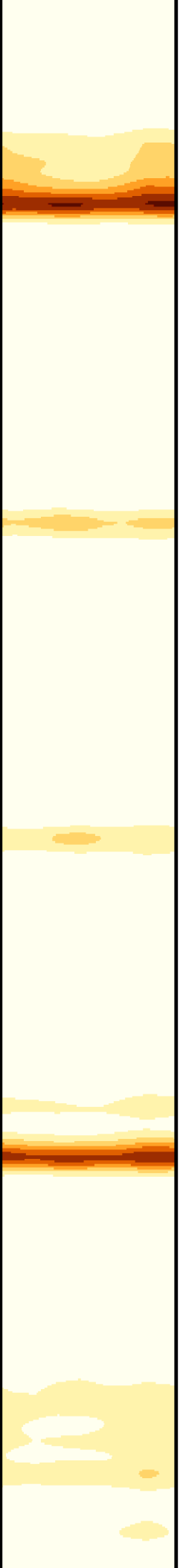






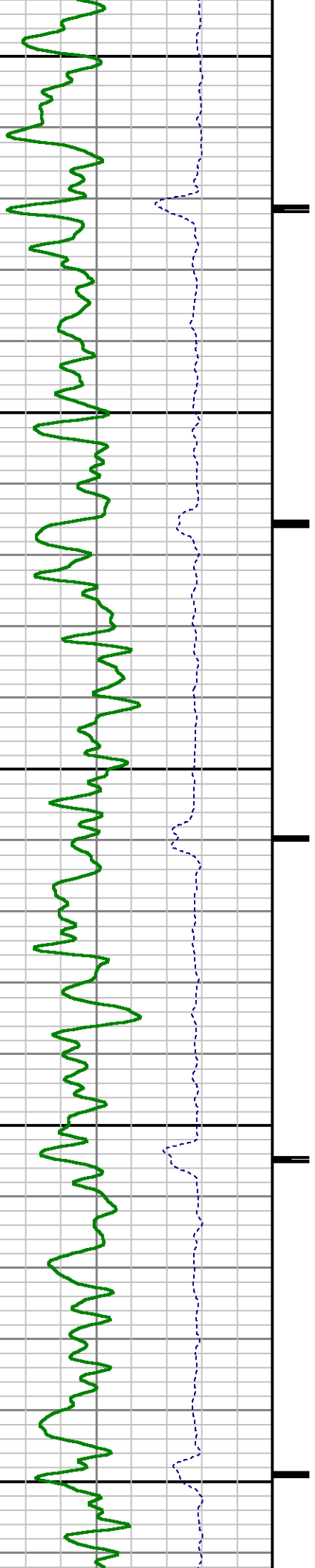
2700

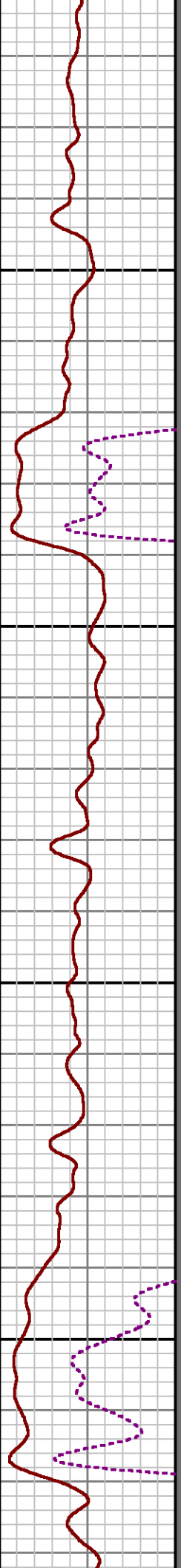
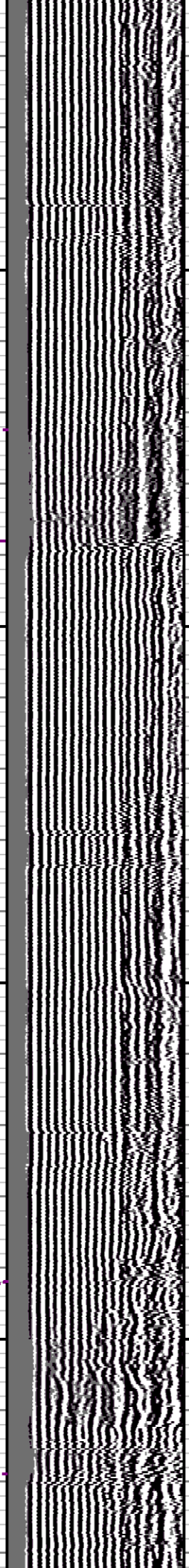
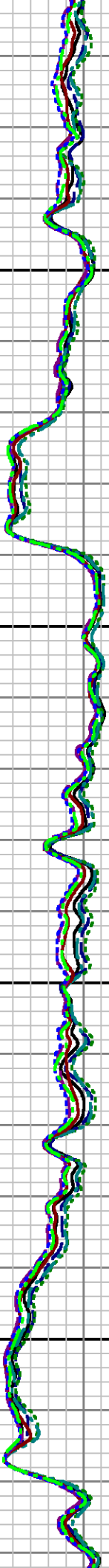
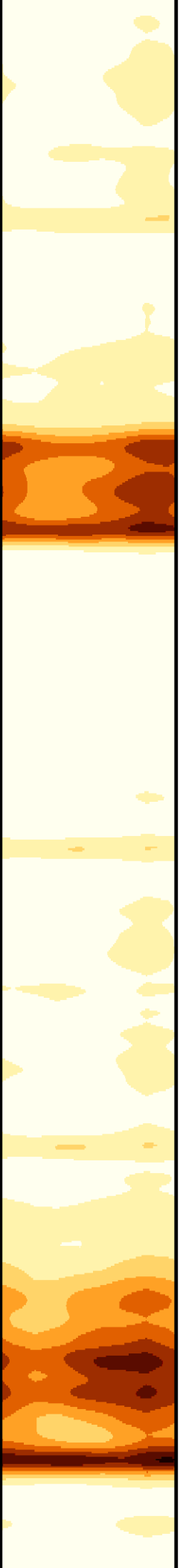
2800



2900

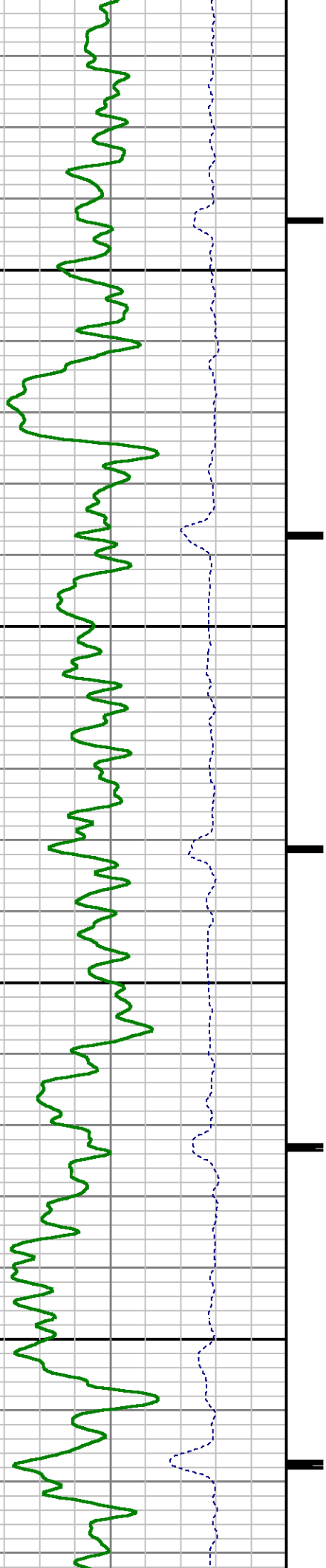
3000



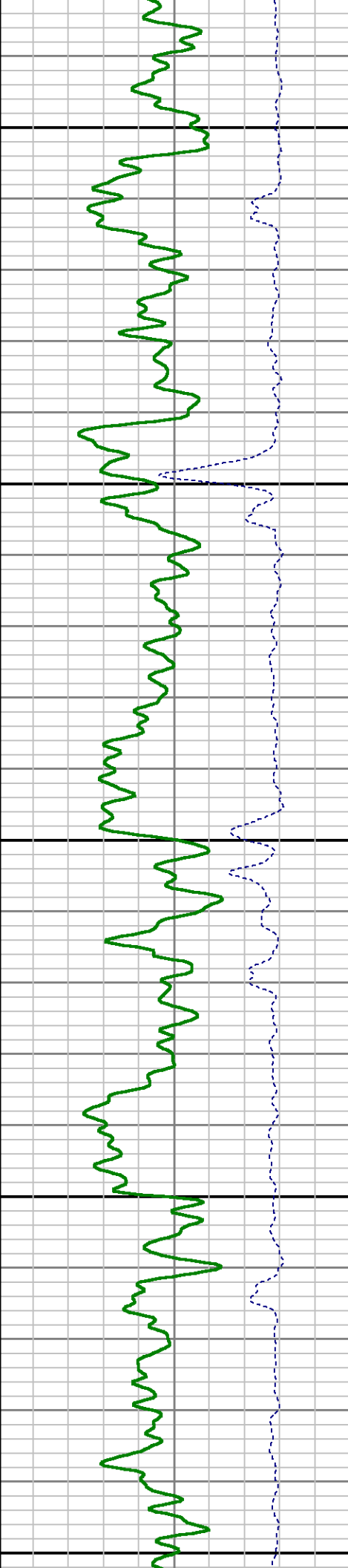
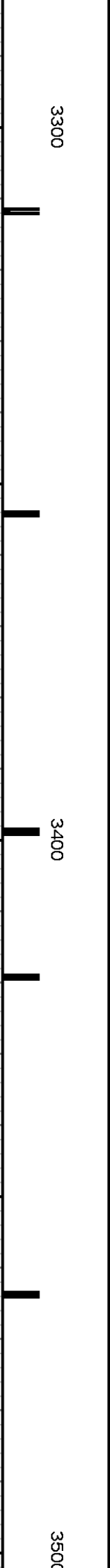
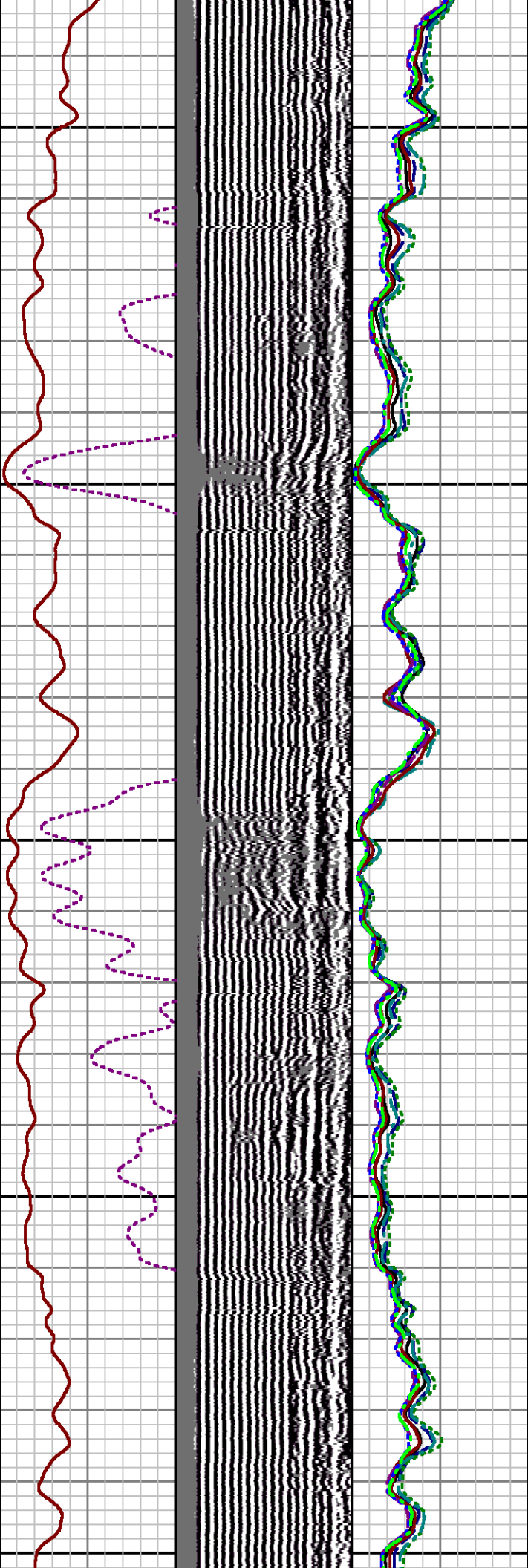


3100

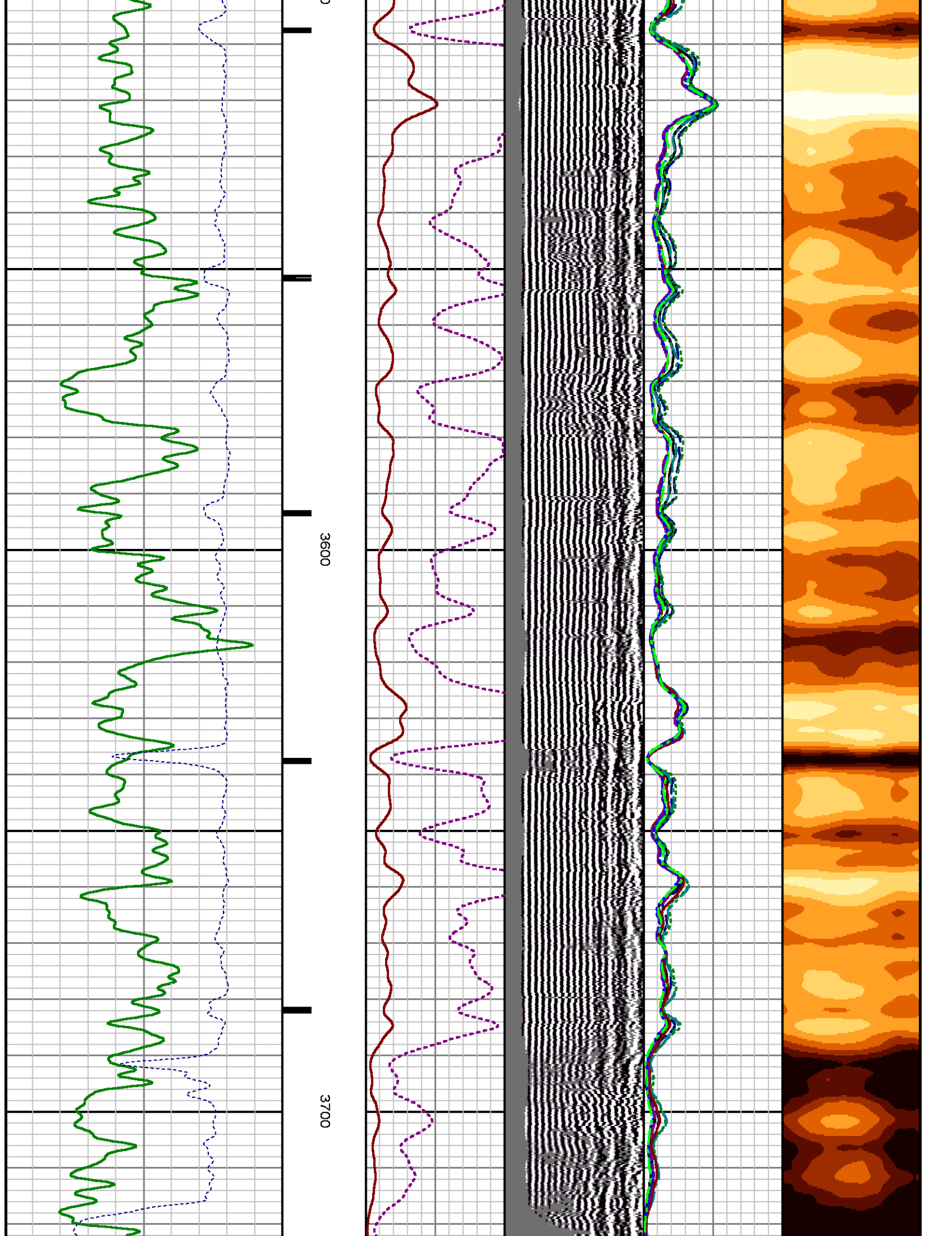
3200

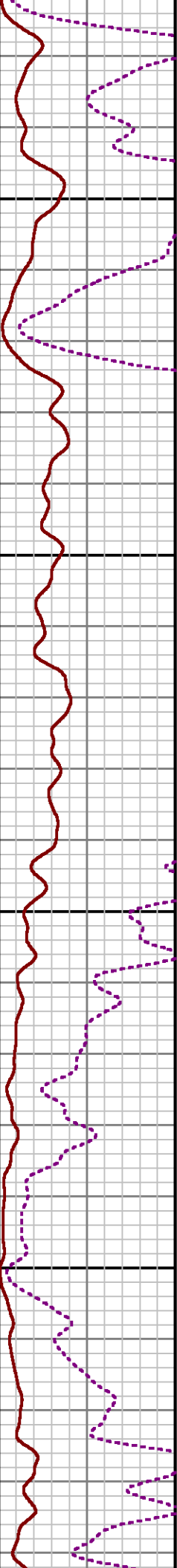
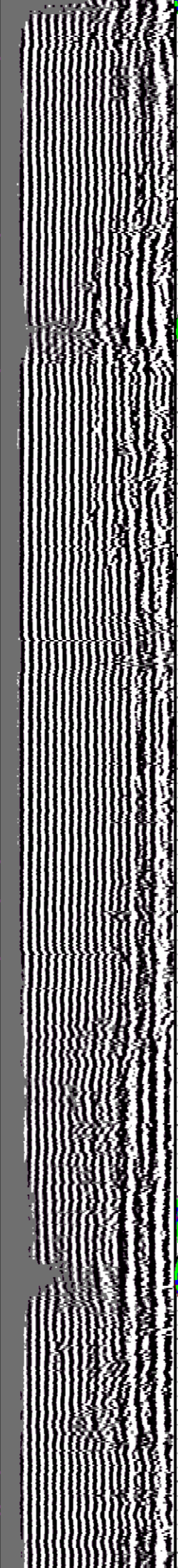
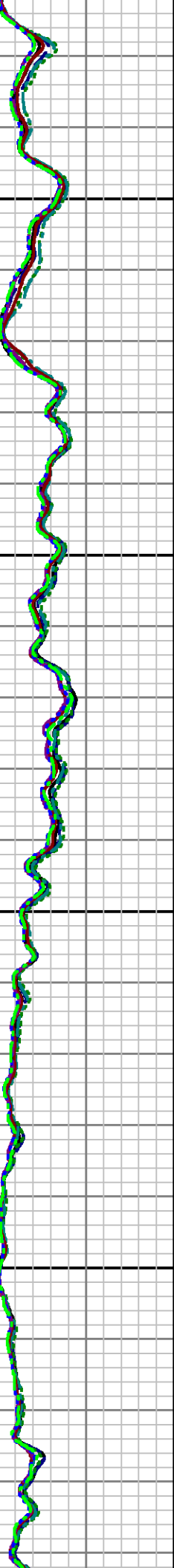
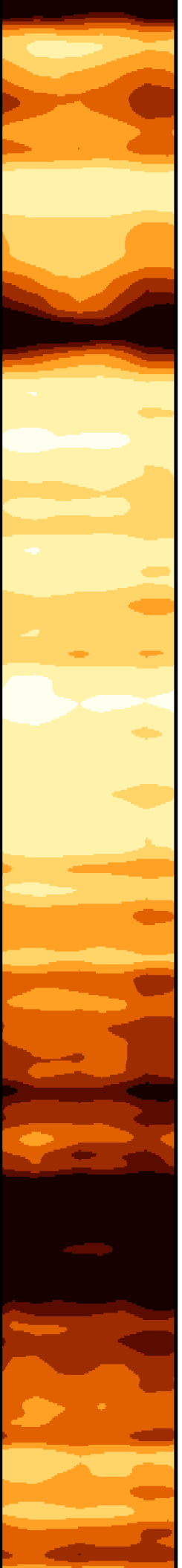






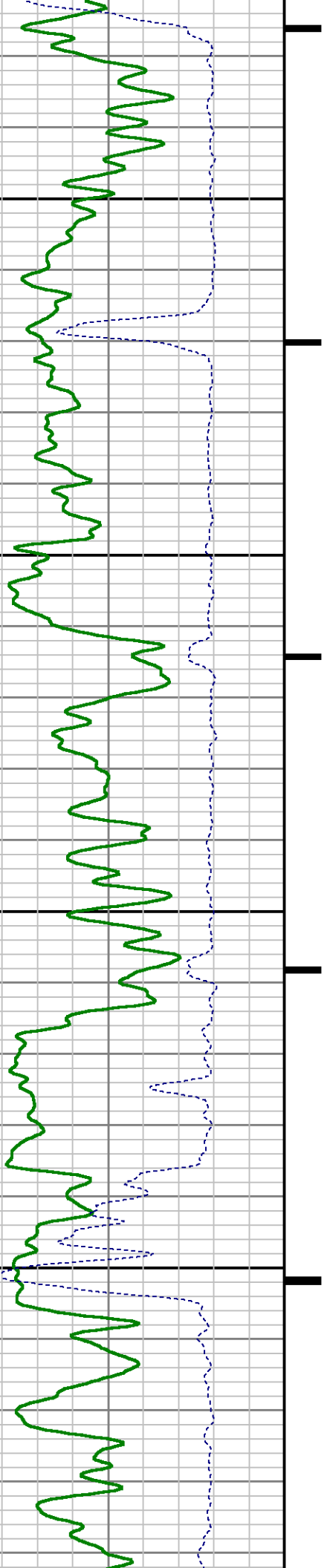


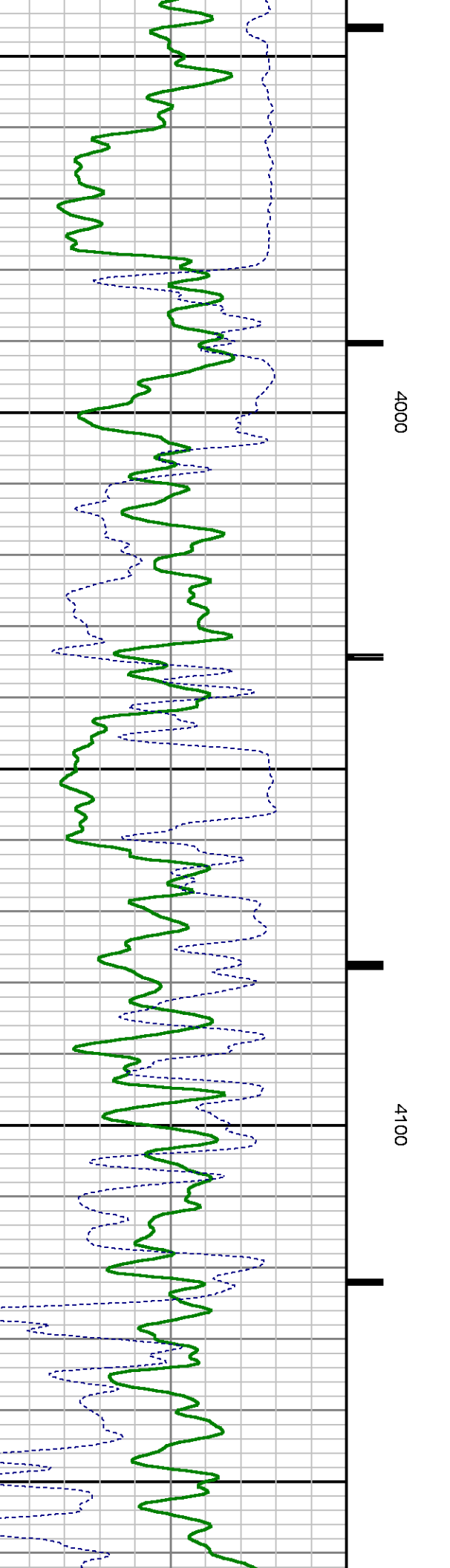
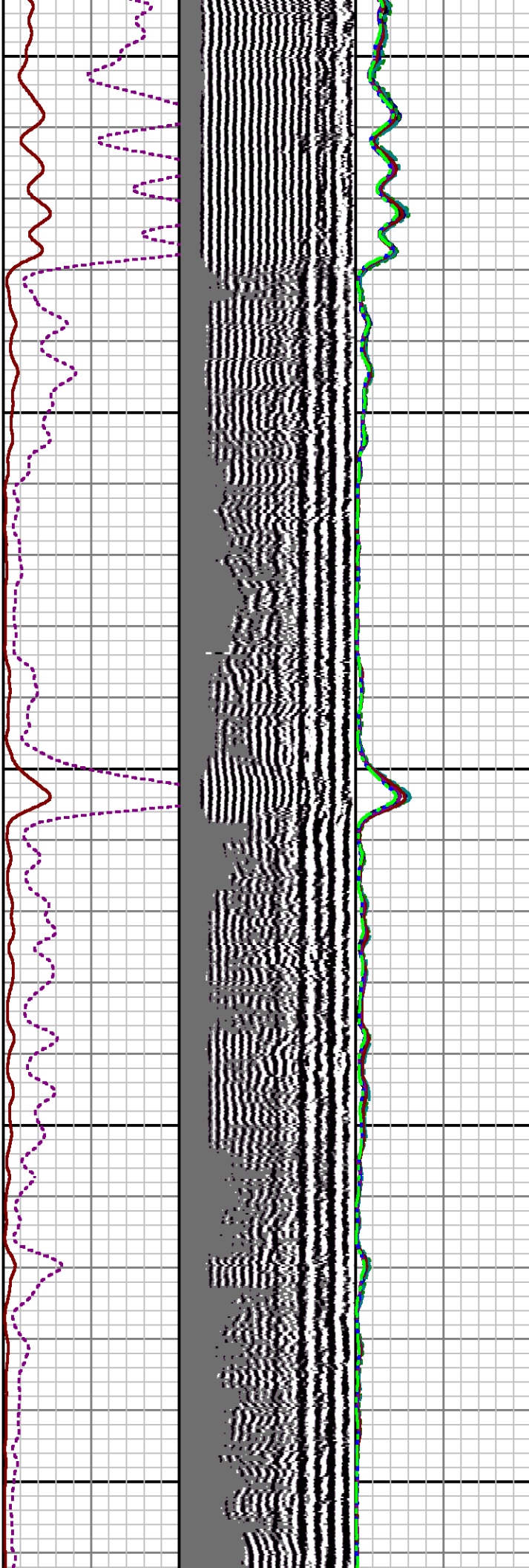
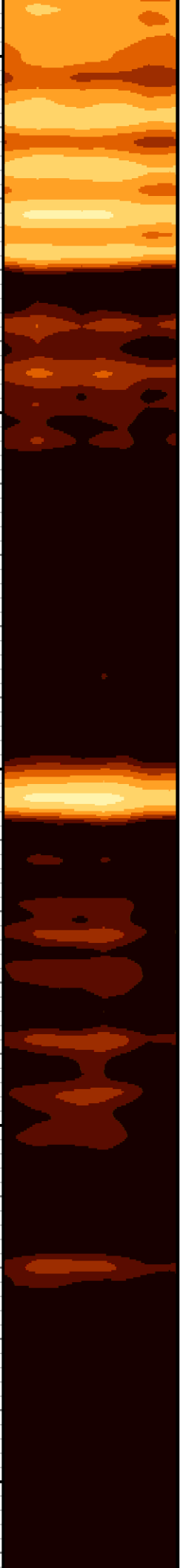


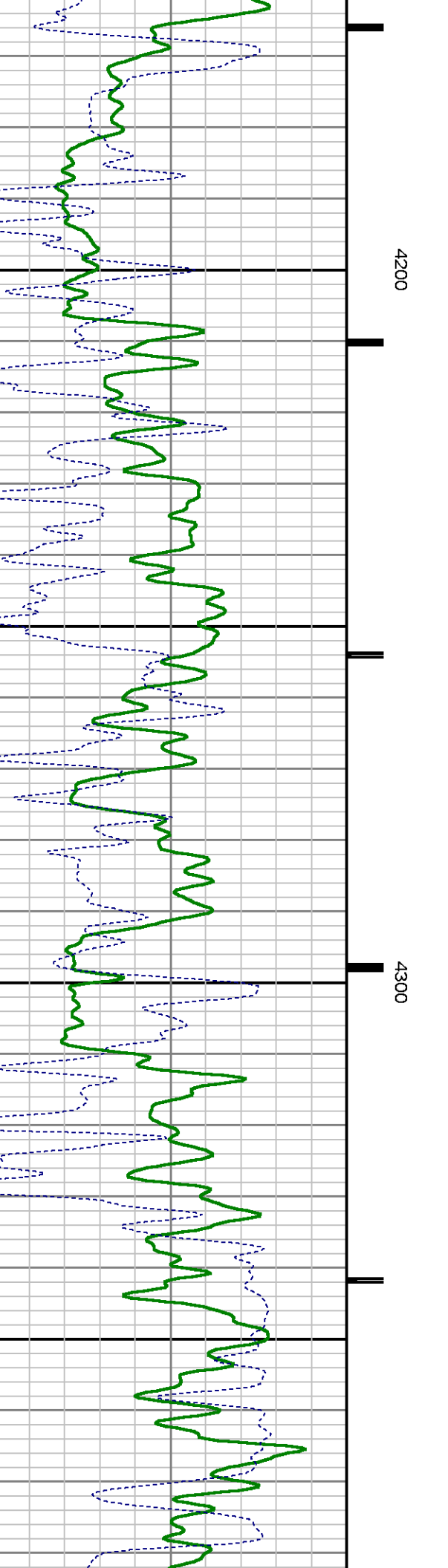
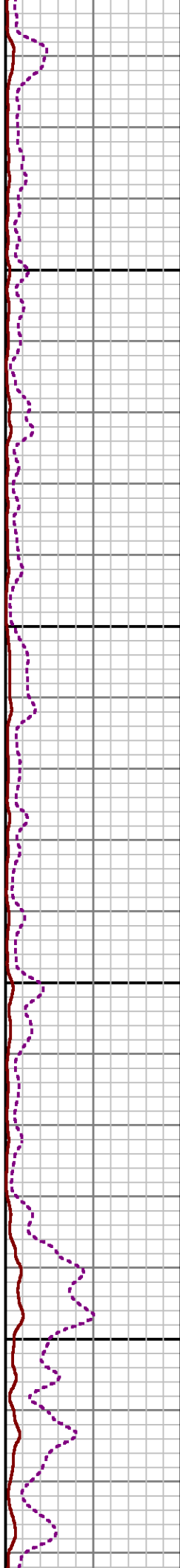
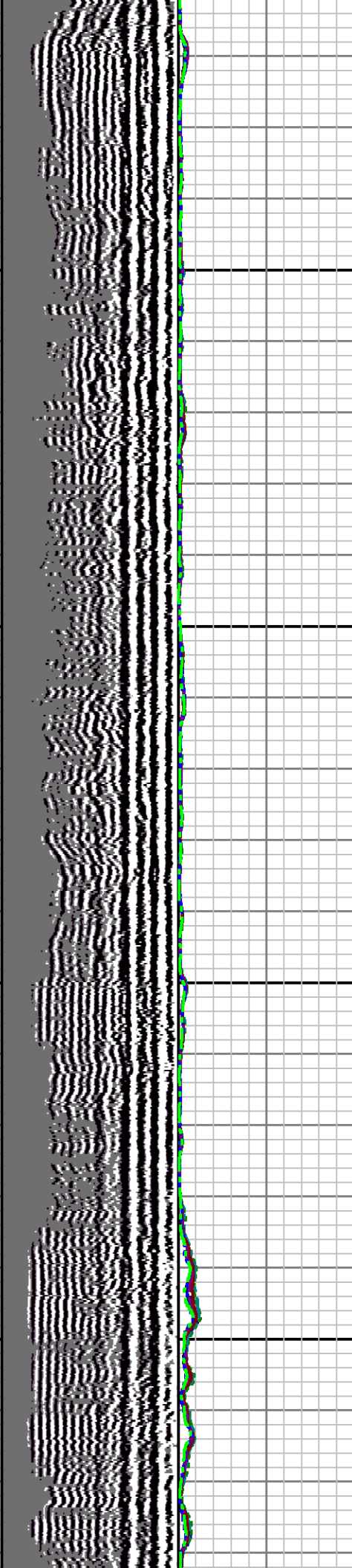
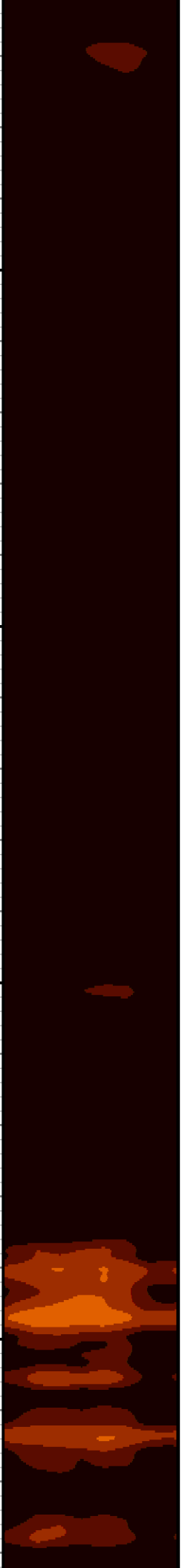


3800

3900

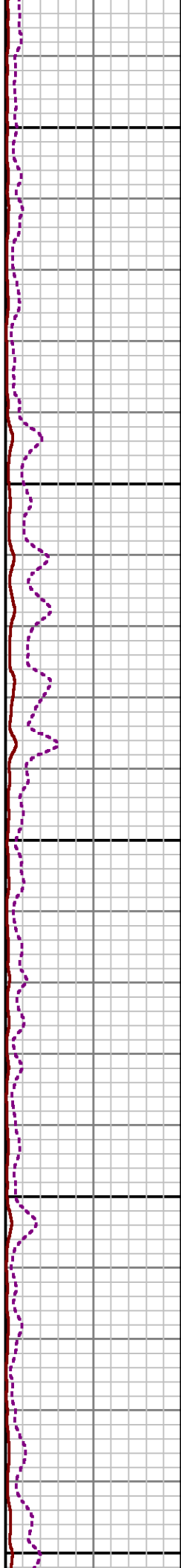
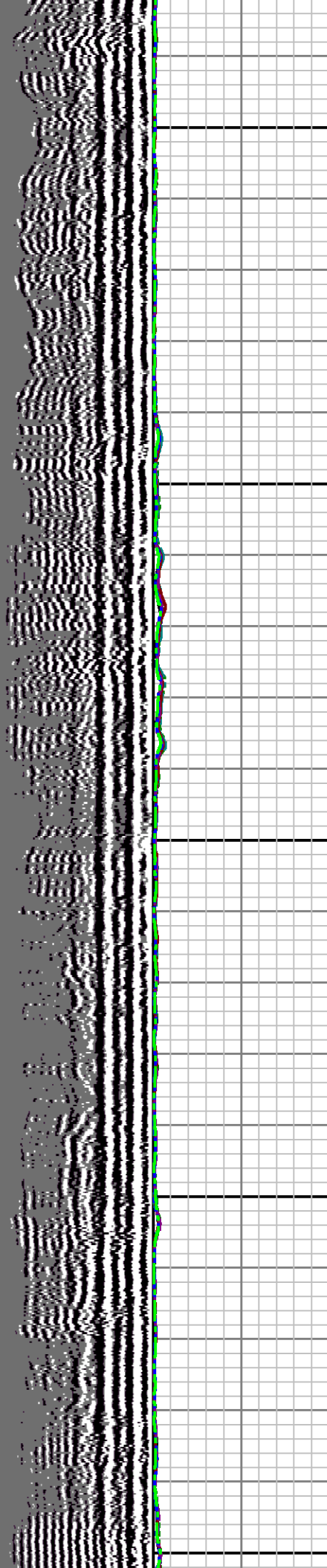








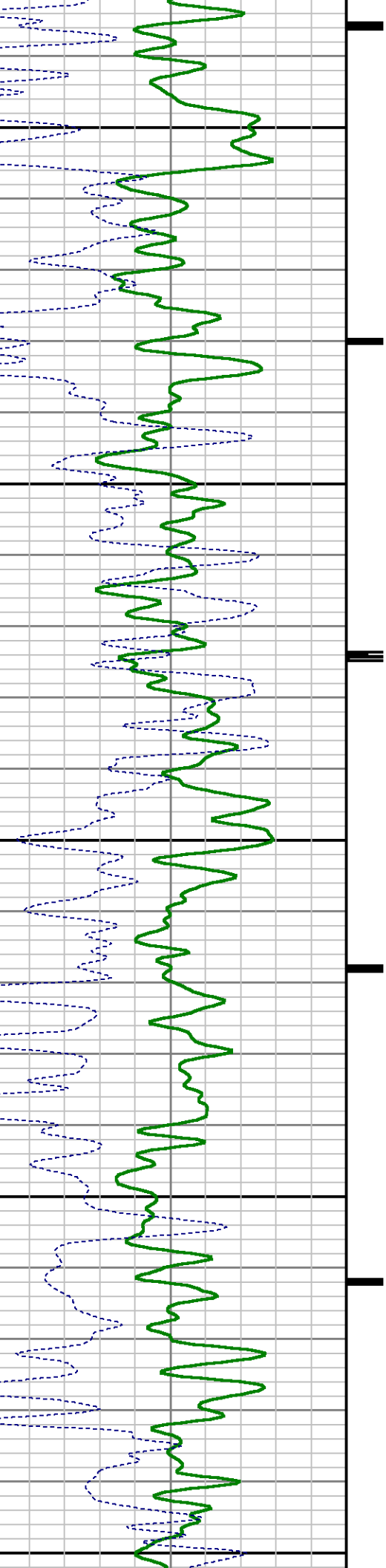
181



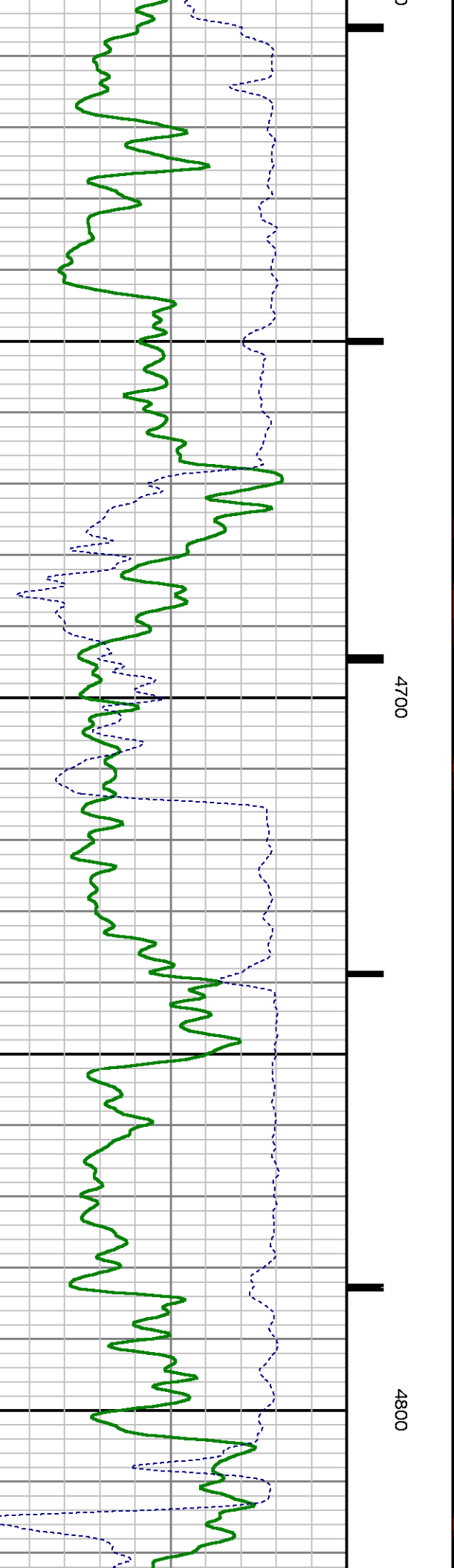
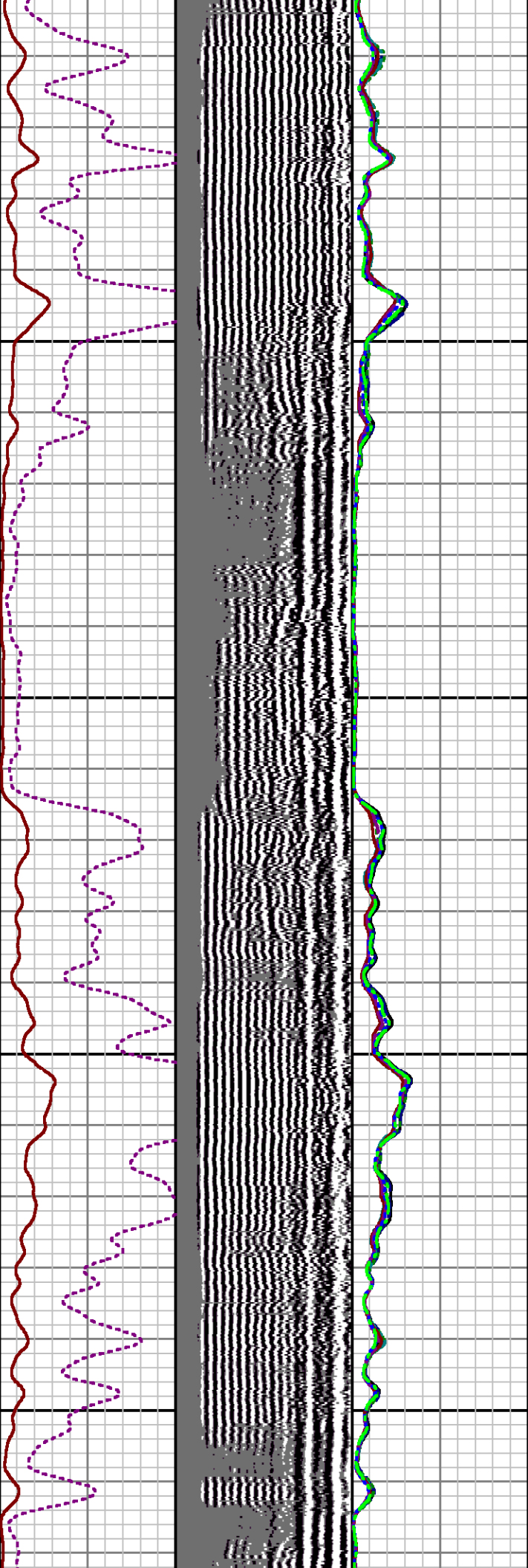
4400

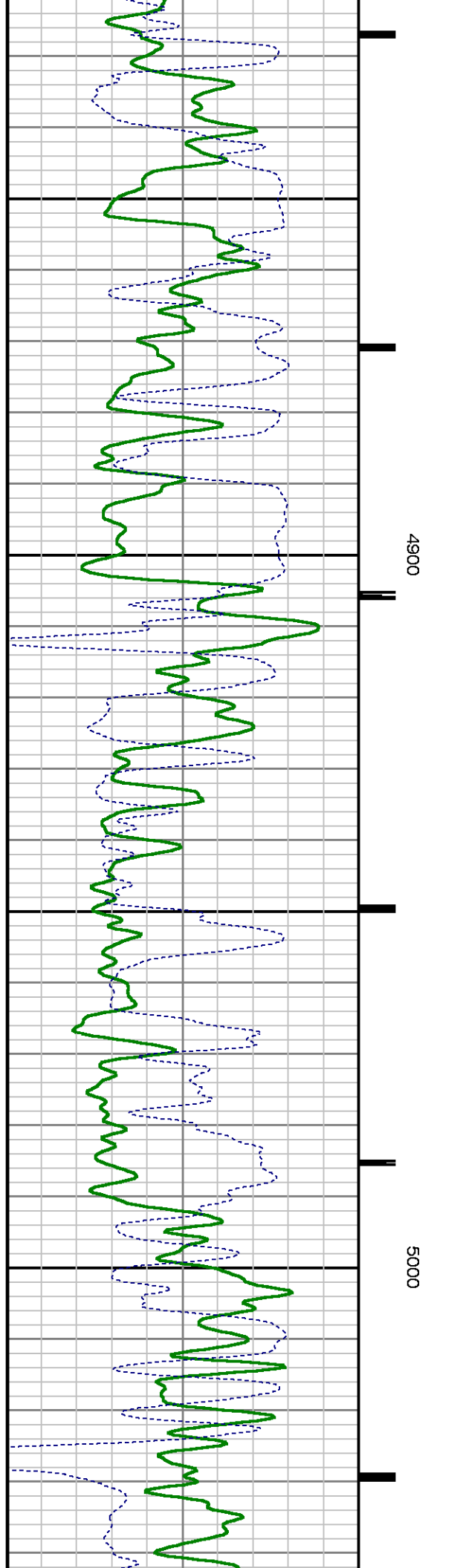
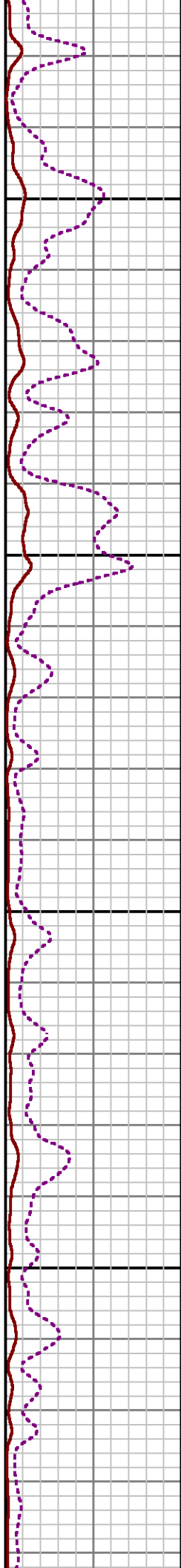
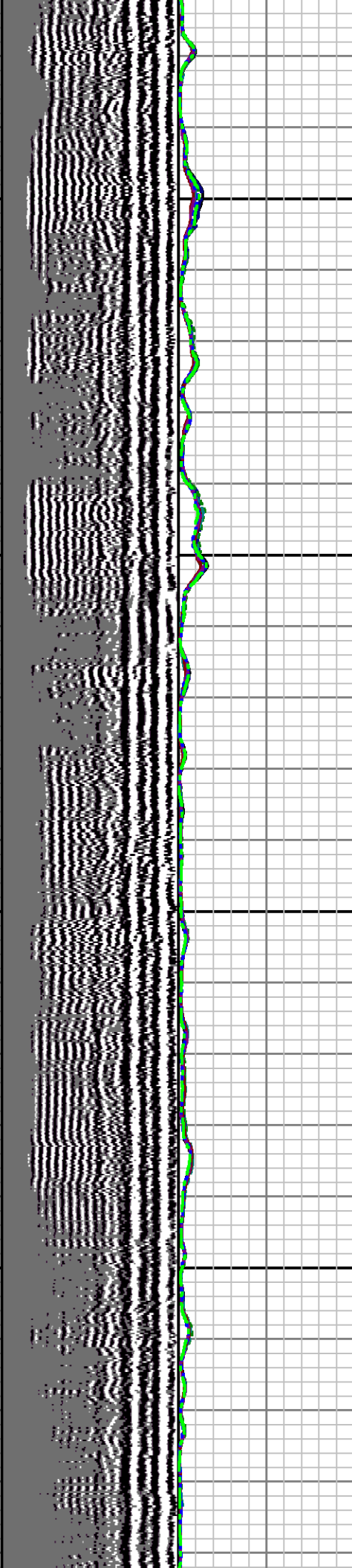
4500

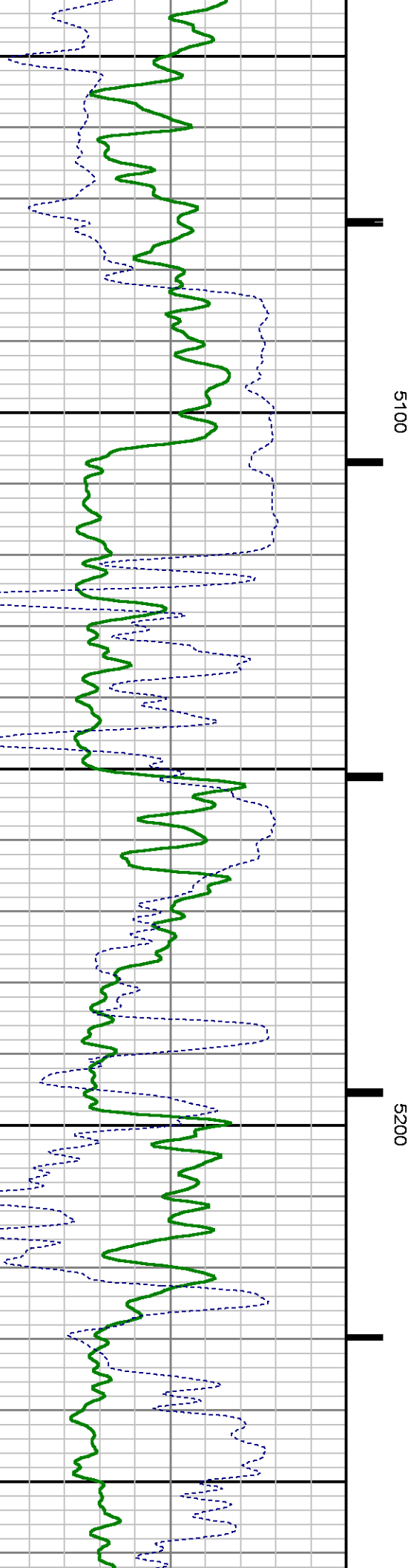
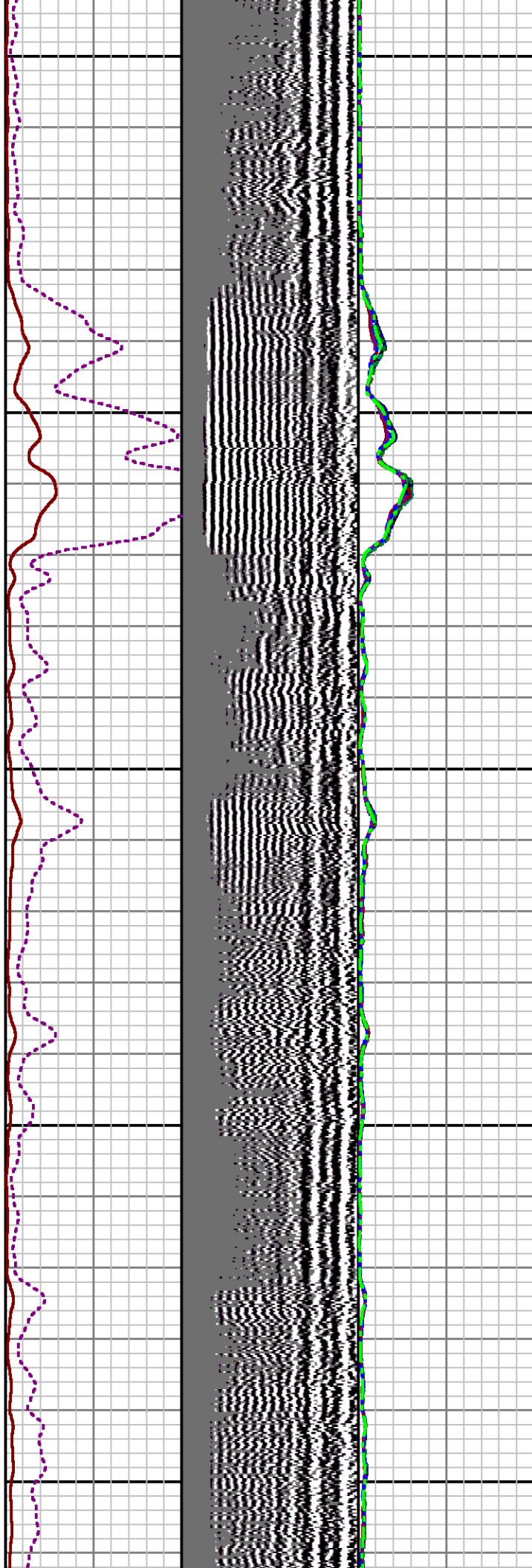
4600

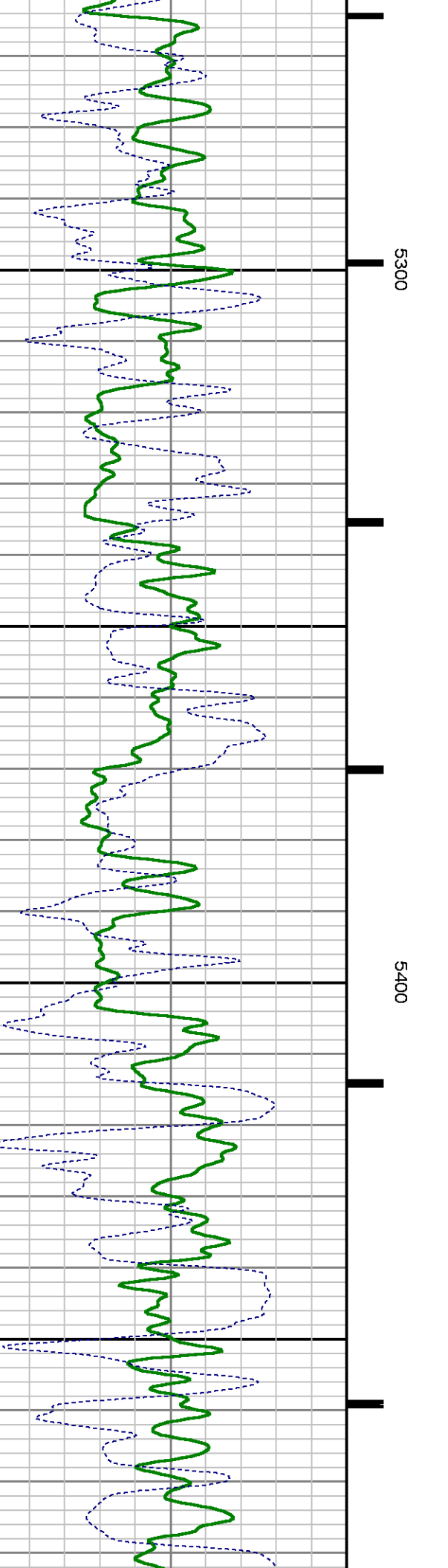
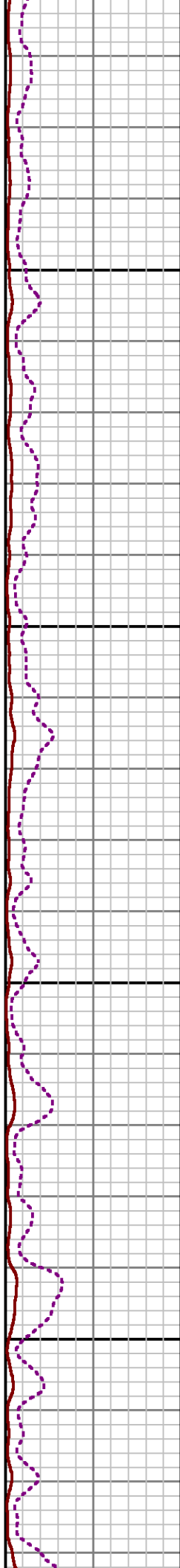
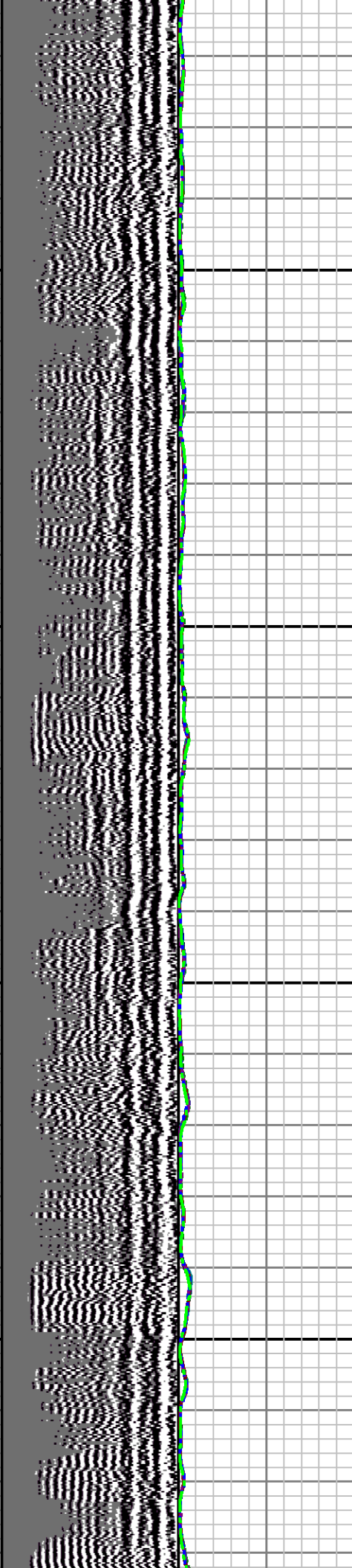




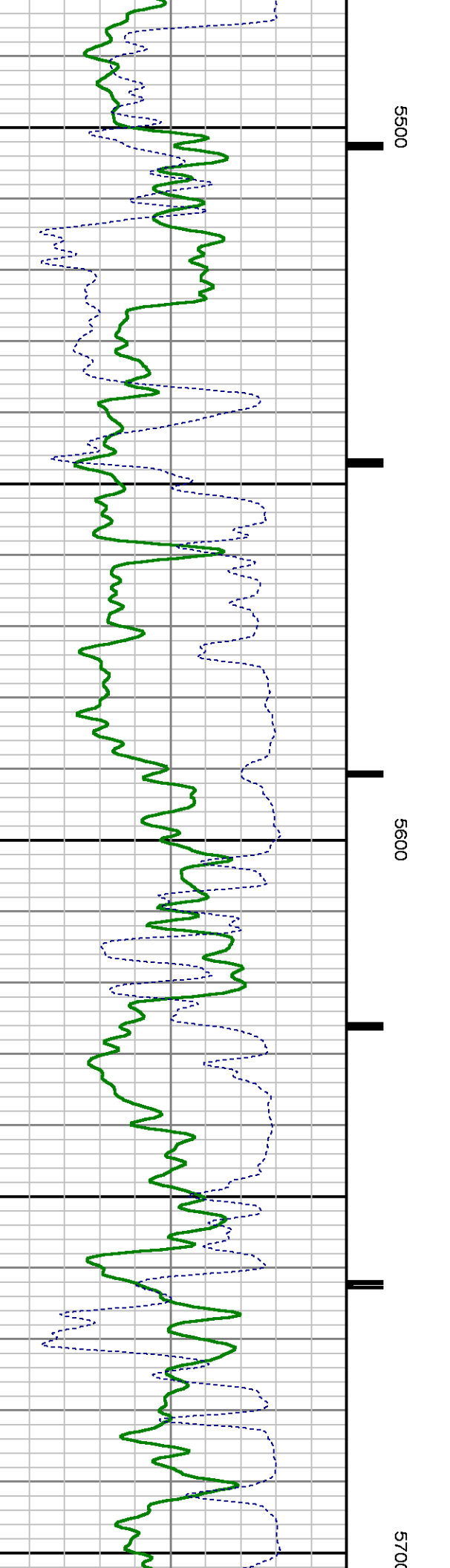
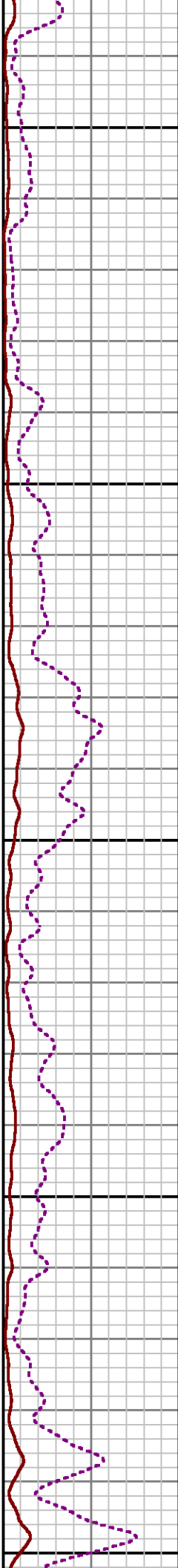
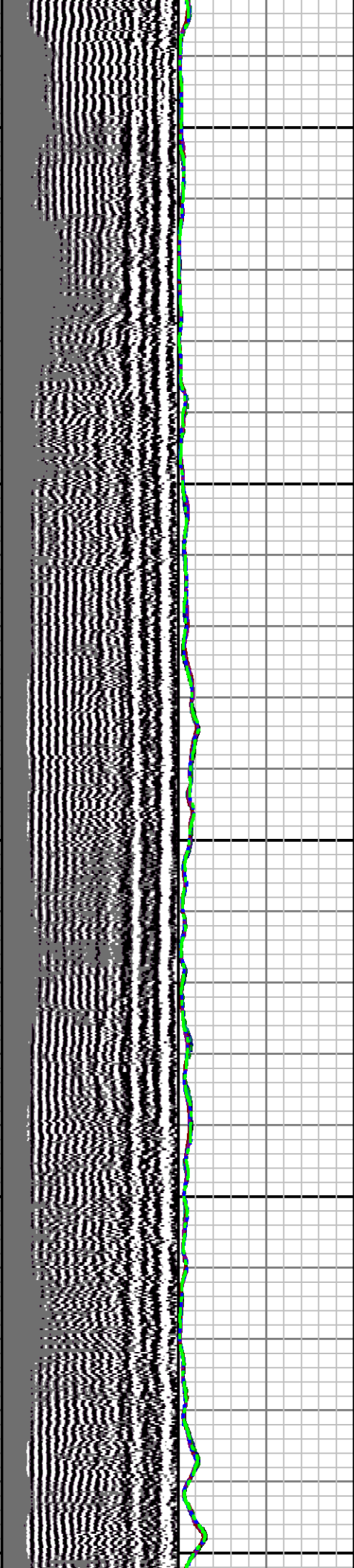




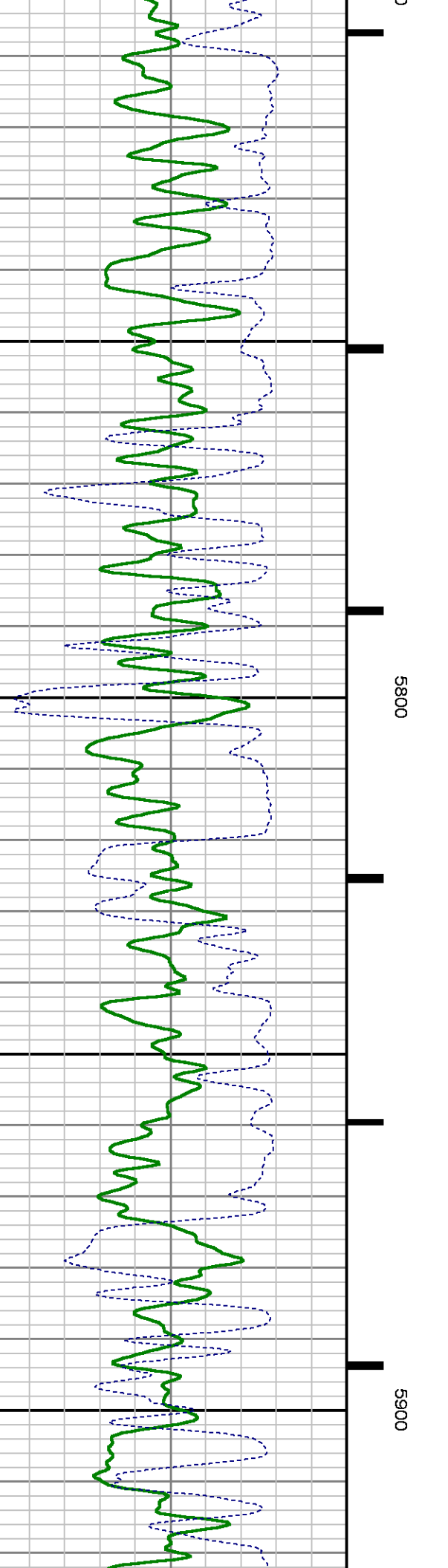
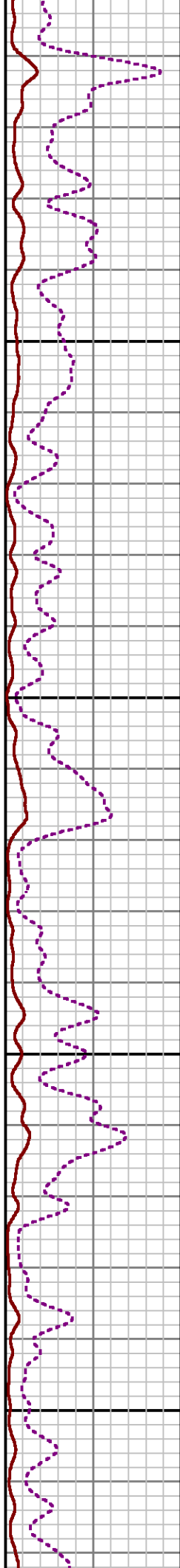
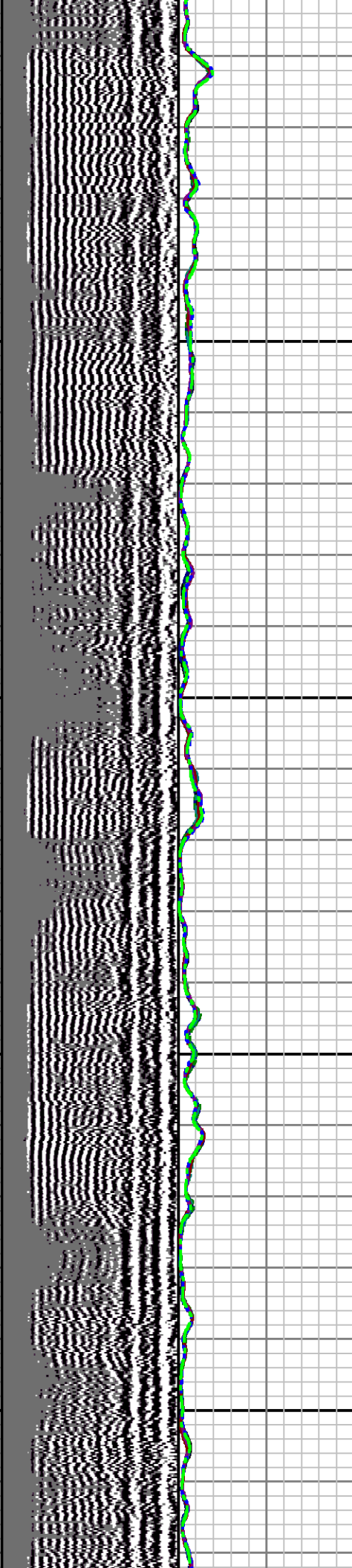
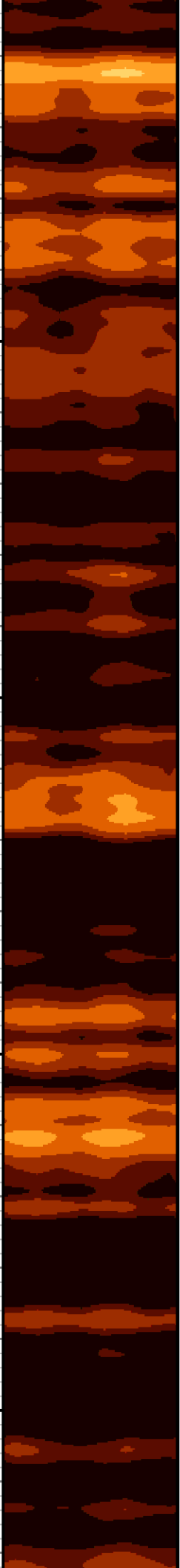


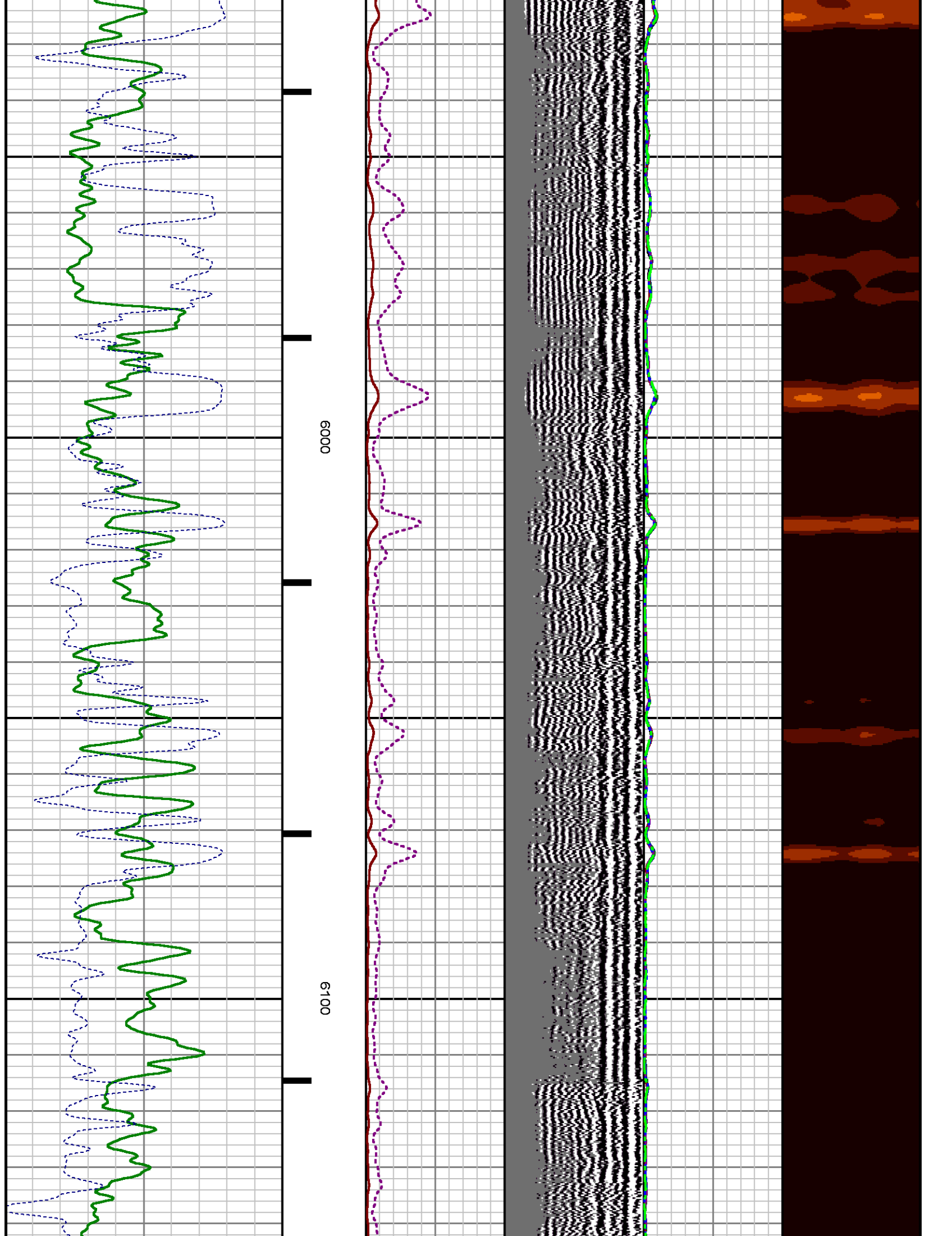


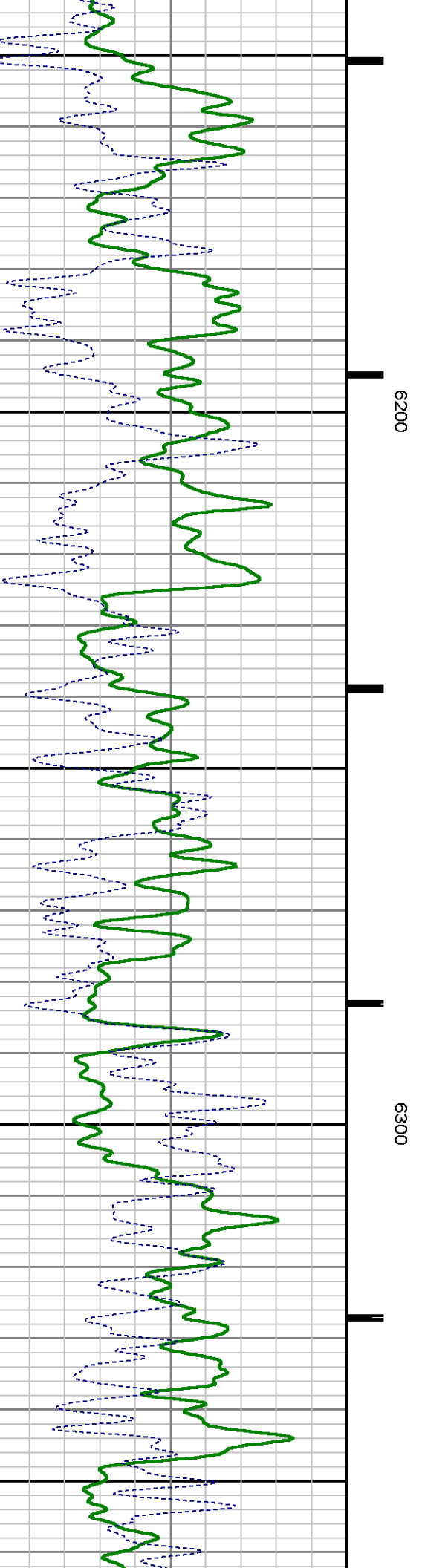
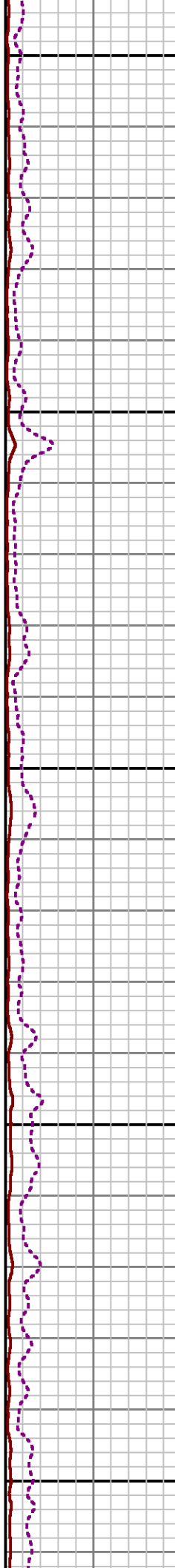
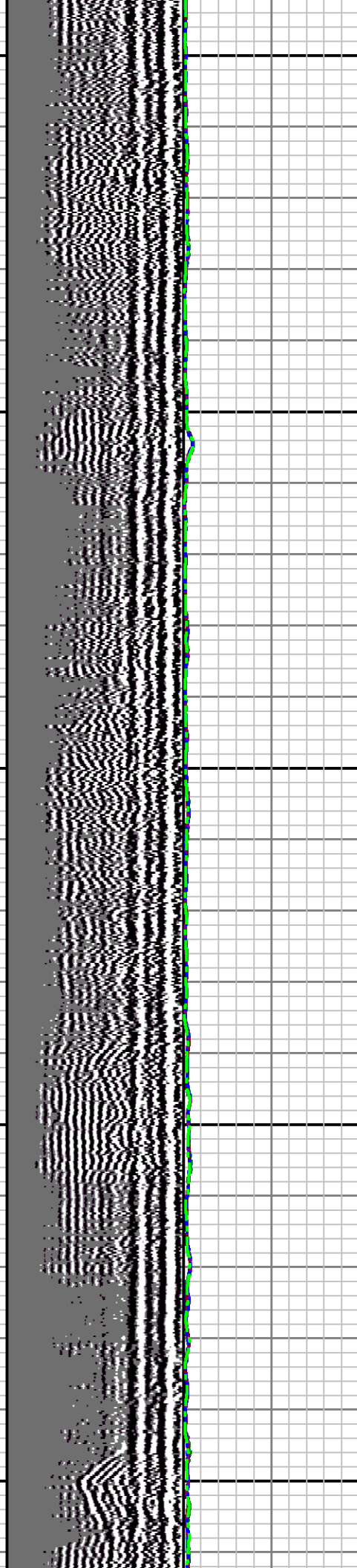


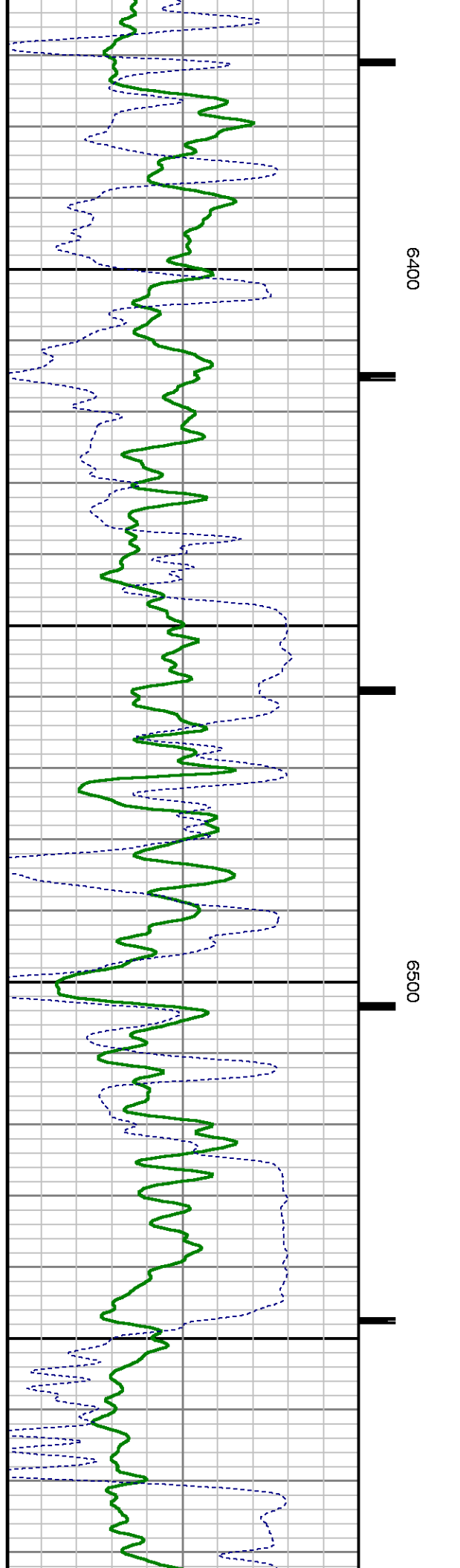
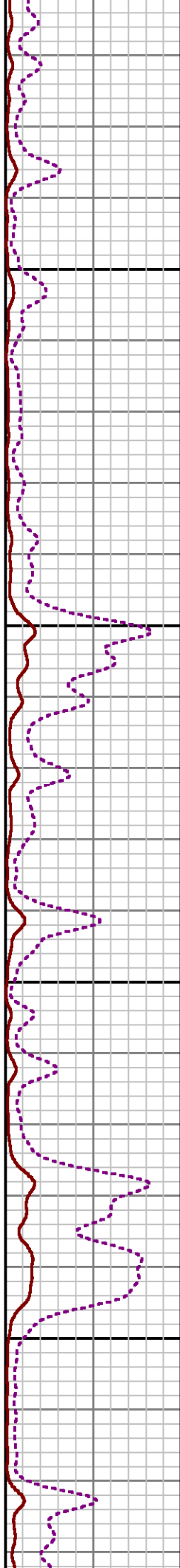
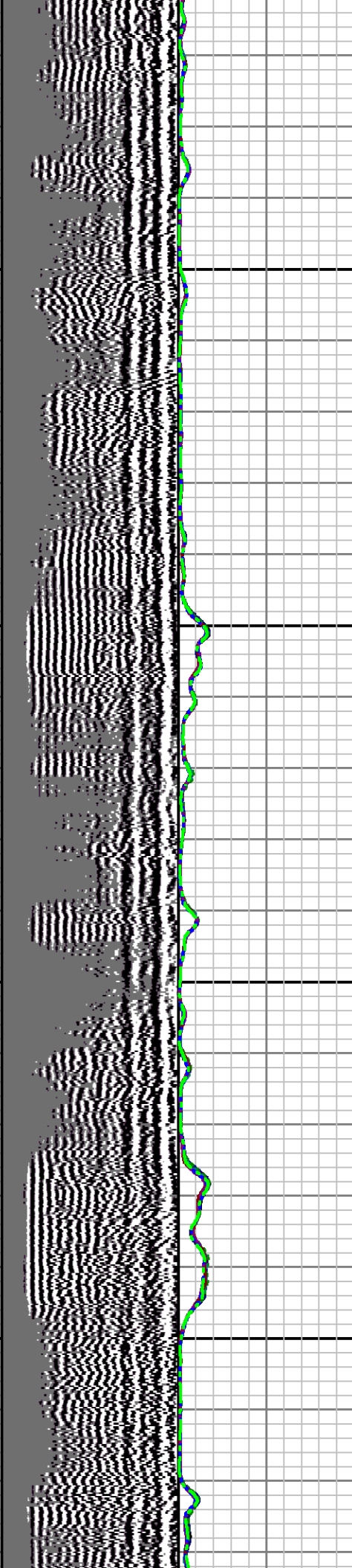
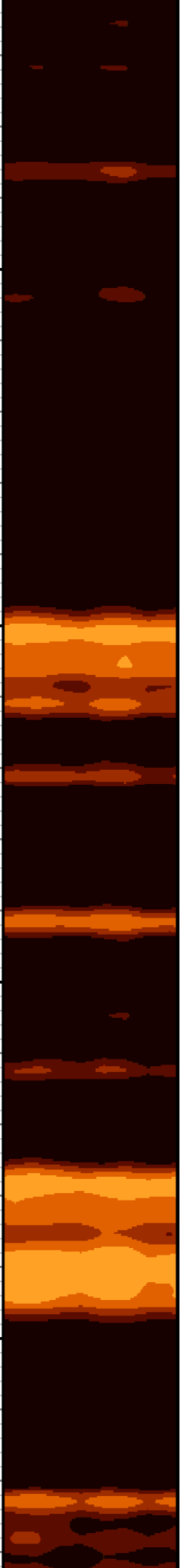




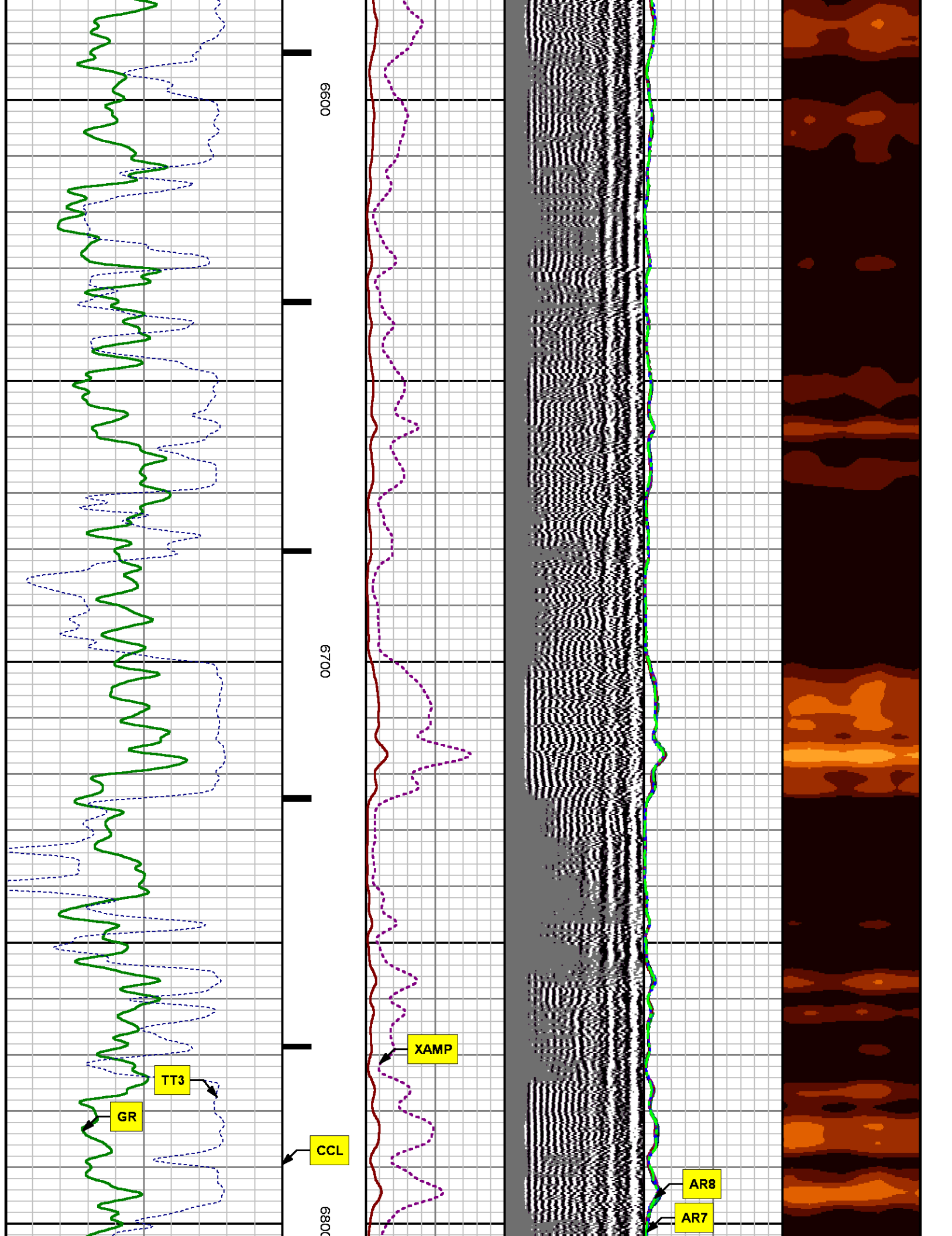




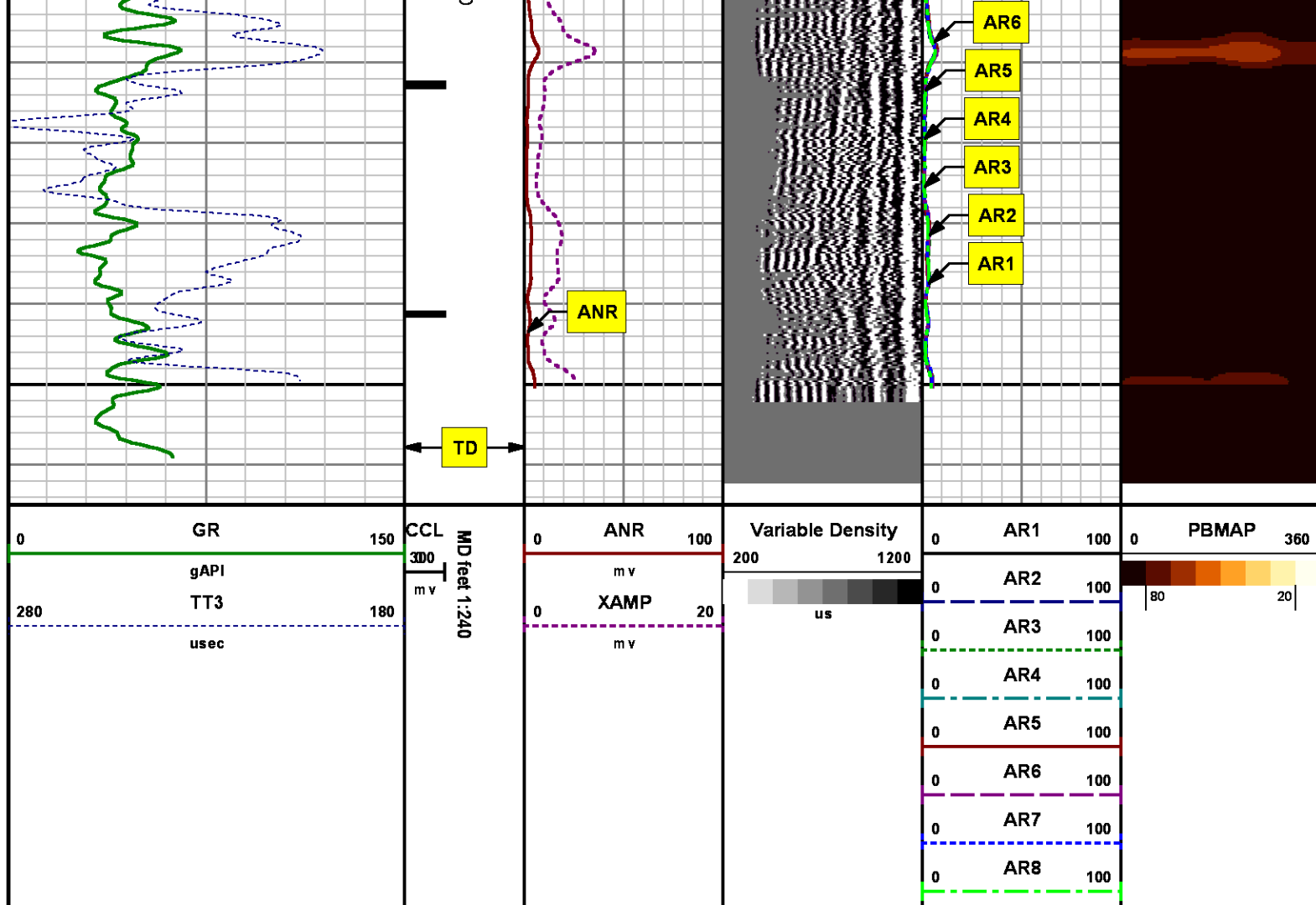












*REPEAT SECTION*  
*0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	u sec	6532.840	6859.840
RAL	Amp Gate Start Near	195.000	u sec	6532.840	6859.840
RAL	Amp Gate Start Radial	195.000	u sec	6532.840	6859.840
RAL	Amp Gate Width Far	25.000	u sec	6532.840	6859.840
RAL	Amp Gate Width Near	25.000	u sec	6532.840	6859.840
RAL	Amp Gate Width Radial	25.000	u sec	6532.840	6859.840
RAL	casing od	4.500	inches	6532.840	6859.840
RAL	casing wt	11.600	lbm/ft	6532.840	6859.840

RAL	FB Start Far	291.900	usec	6532.840	6859.840
RAL	FB Start Near	180.000	usec	6532.840	6859.840
RAL	FB Start Radial	180.000	usec	6532.840	6859.840
RAL	FB Thresh Far	10.000	mv	6532.840	6859.840
RAL	FB Thresh Near	4.000	mv	6532.840	6859.840
RAL	FB Thresh Radial	4.000	mv	6532.840	6859.840
RAL	Fluid Travel Time	200.000	usec/ft	6532.840	6860.089

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

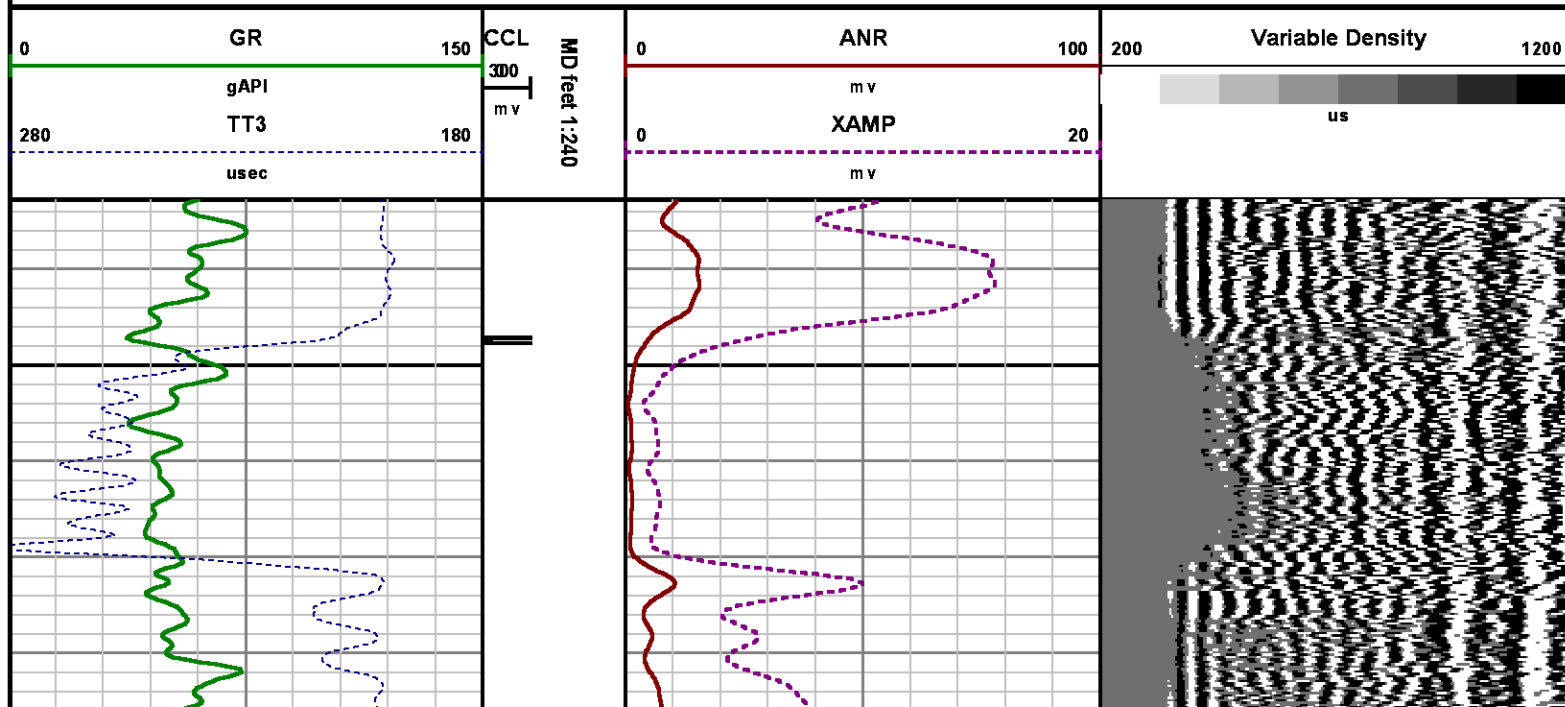
Well : HICKS PA 333-6

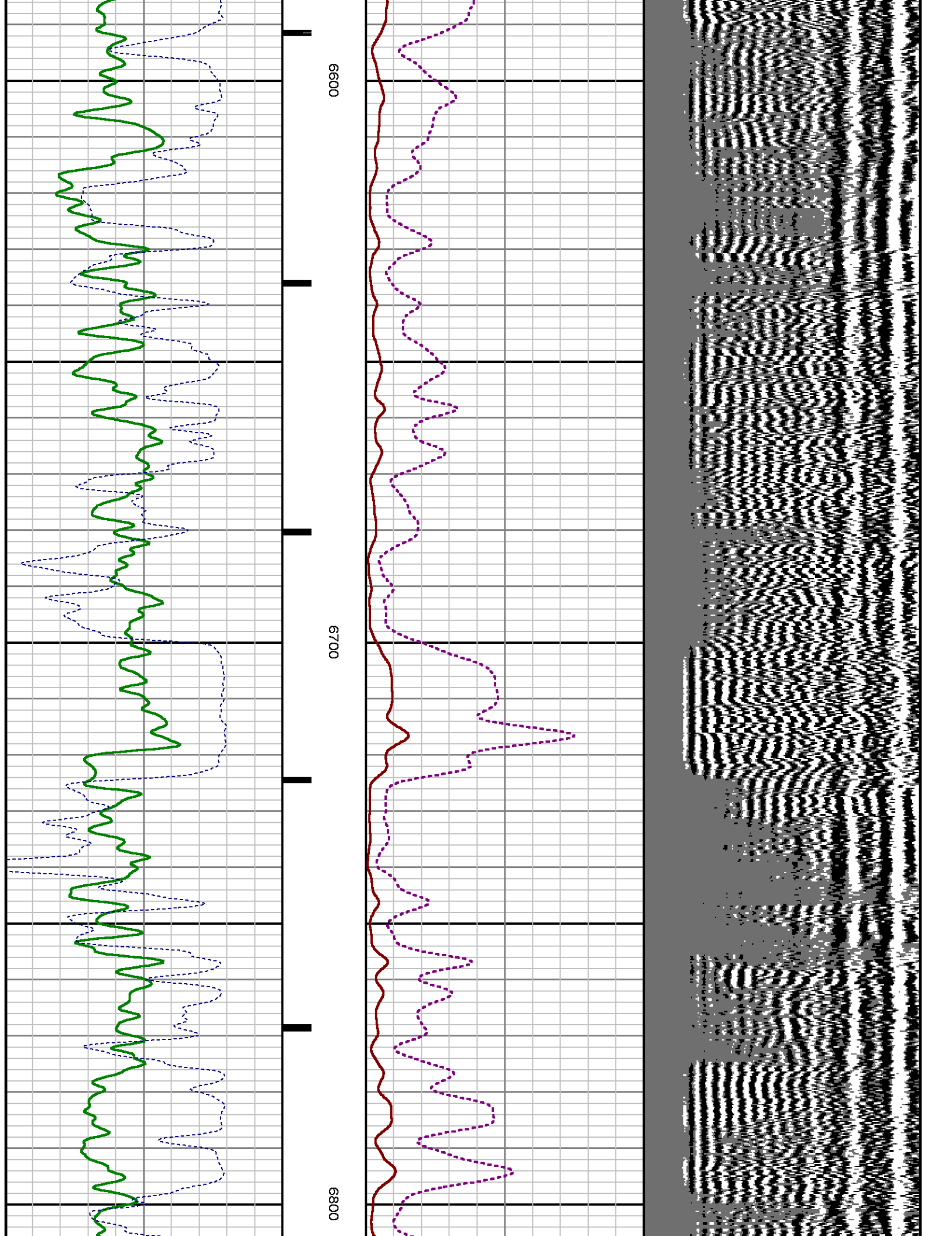
File Name : d:\welldata\wpx\pa 333-6\ral333\repeat.xtf

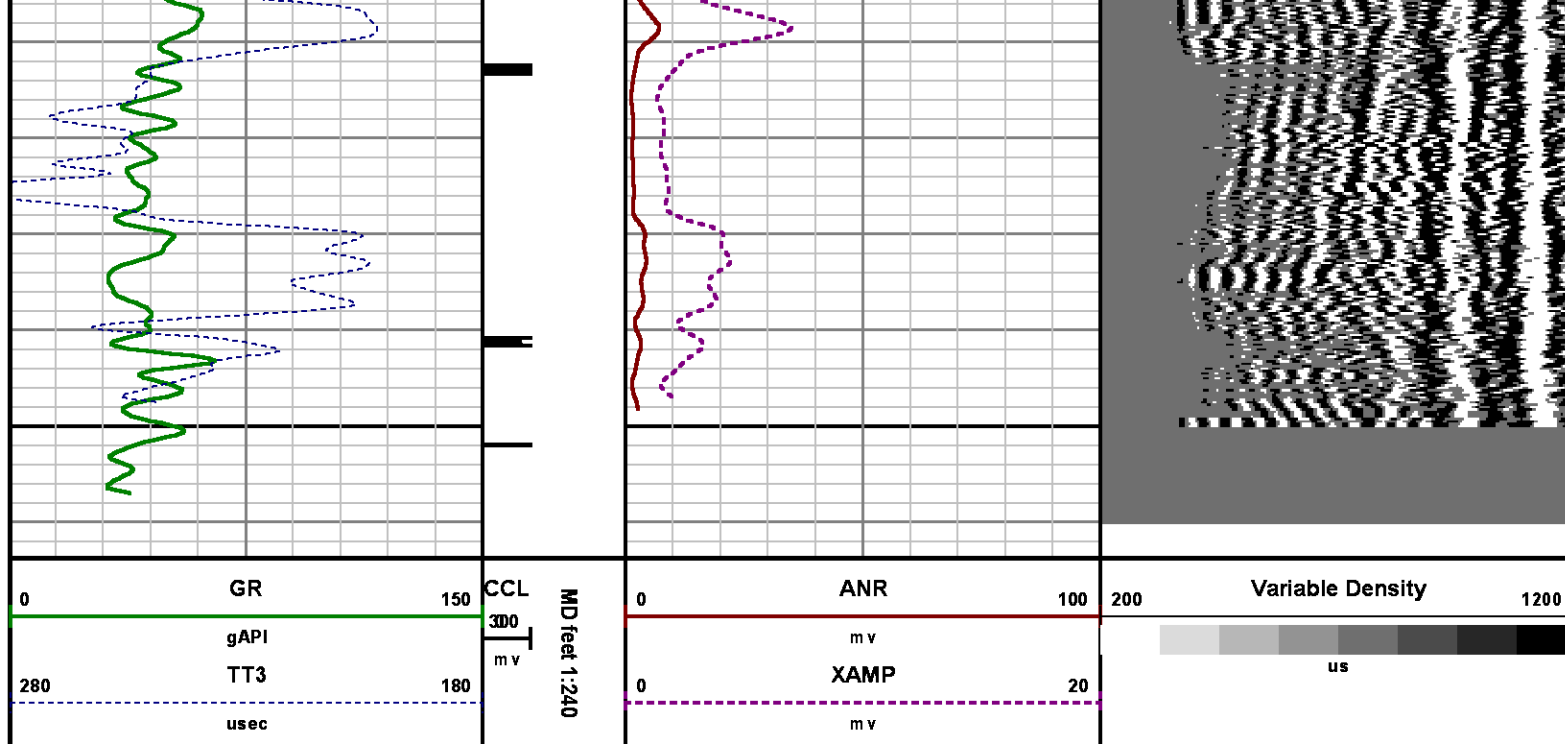
Mode : PlotMgr 5.4.504

Interval : 6532.84 - 6863.84 feet UP

Created : 8/19/2014 9:38:21 AM







## CALIBRATION SUMMARY

*RALSHP*

Shop Calibration: C:\case\calver\RALSHP\106AU18\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Aug 18 07:52:14 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: AU18

Tool Delay [u sec] -50.00 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	219	216	30	166	25	-0.259	100.00	0.47
3 Ft. Receiver	218	216	30	166	25	-0.181	100.00	0.46
5 Ft. Receiver	326	325	30	249	25	0.277	150.00	0.50
Radial #1	218	216	30	166	25	-0.205	100.00	0.46
Radial #2	217	216	30	166	25	-0.260	100.00	0.46
Radial #3	217	216	30	166	25	-0.074	100.00	0.46
Radial #4	217	216	30	166	25	-0.420	100.00	0.46
Radial #5	218	216	30	166	25	-0.187	100.00	0.47
Radial #6	218	216	30	166	25	0.132	100.00	0.47
Radial #7	218	216	30	166	25	-0.665	100.00	0.47
Radial #8	219	216	30	166	25	-0.458	100.00	0.47

# RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106AU18 fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Aug 18 07:54:09 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: AU18

Tool Delay [usec] -50.00 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	-0.023	0.000	0.99	100.000
3 Ft. Receiver	195	25	-1.157			
5 Ft. Receiver	305	25	-1.179			
Radial #1	195	25	-2.718			
Radial #2	195	25	-1.616			
Radial #3	195	25	-1.129			
Radial #4	195	25	-1.149			
Radial #5	195	25	-1.012			
Radial #6	195	25	-1.103			
Radial #7	195	25	-0.616			
Radial #8	195	25	-0.820			

# GAMMA RAY

Calibration File: C:\case\calver\GRV11871510A1.cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 15 09:48:50 2014 TOOL SERIES: 1355XA ASSET: 11871510 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	78.09	460.84	0.483	37.74	222.74	185.00

Verification File: C:\case\calver\GRV11871510A1.VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Fri Aug 15 09:50:00 2014 TOOL SERIES: 1355XA ASSET: 11871510 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	85.91	455.51	0.483	41.52	220.17	178.64



# TOOL DIAGRAM

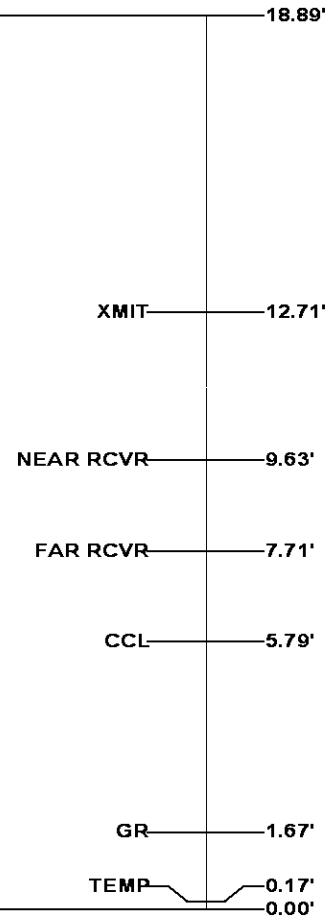
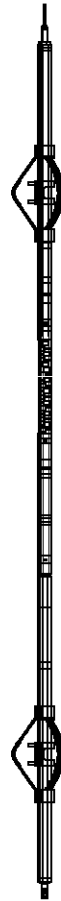
## OTA SHORT CABLE HEAD

### 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

### RAL GR/TEMP/CCL/CHV DETECTOR

**Series** 1355XA  
**Mnemonic** RAL  
**Diameter** 2.75"  
**Weight** 85.00 lb  
**Length** 6.96'  
     **Measure Point** 0.17' TEMP  
     **Measure Point** 1.67' GR  
     **Measure Point** 5.79' CCL  
**Temp Rating** 400.00 °F  
**Press Rating** 20000.00 PSI



**Total Length: 18.89'**  
**Total Weight: Not Available**  
**Max Diameter: 0' 2.75"**



Baker Atlas

CASE

#### Company

WPX ENERGY

#### Well

HICKS PA 333-6

#### Field

PARACHUTE

#### County

GARFIELD

#### State

COLORADO

#### Location

SHL: 815' FSL & 2245' FWL

BHL: 2131' FSL & 1684' FEL (NWSE)

#### Elevations

KB 5160 ft

DF

GL 5135 ft

SEC 6

TWP 7S

RGE 95W

#### File No:

CH089580

#### API No:

05045224080000

6 7S 95W

PA 24-6 PAD

AZTEC 1000