



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH089913	Company Well Field County	WPX ENERGY C&C ENERGY GM 44-12 GRAND VALLEY GARFIELD	State COLORADO
API No: 05045224300000	Location SHL: 267' FSL & 1054' FWL BHT: 1157' FSL & 879' FEL (SESE) SEC 12 TWP 7S RGE 96W		Other Services RPM
12 7S 96W GM 24-12 PAD H&P 318	Permanent Datum Log Measured From Drill Measured From		Elevations KB 5165 ft DF GL 5141 ft
GL KB 24 ft Above P. D. KELLY BUSHING			

Date	06/SEP/14	
Run	ONE	
Service Order	US089913J	
Depth Driller	7734 ft	
Depth Logger	7675 ft	
Bottom Logged Interval	7665 ft	
Top Logged Interval	24 ft	
Time Started	0700	
Time Finished	0945	
Operator Rig Time	2.78 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	67 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.	44271	GRAND JCT
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	1855 ft
8.75 in	2855 ft	7734 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			24 ft	1855 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	7734 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 5.5 feet.
Logged with zero PSI at wellhead.
BHT = 209°F
SJ = 4105'-4127'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218496	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	23.187	7679.500
RAL	Amp Gate Start Near	195.000	usec	23.187	7679.500
RAL	Amp Gate Start Radial	195.000	usec	23.187	7679.500
RAL	Amp Gate Width Far	25.000	usec	23.187	7679.500
RAL	Amp Gate Width Near	25.000	usec	23.187	7679.500
RAL	Amp Gate Width Radial	25.000	usec	23.187	7679.500
RAL	casing od	4.500	inches	23.187	7679.500
RAL	casing wt	11.600	lbm/ft	23.187	7679.500
RAL	FB Start Far	291.900	usec	23.187	7679.500
RAL	FB Start Near	180.000	usec	23.187	7679.500
RAL	FB Start Radial	180.000	usec	23.187	7679.500
RAL	FB Thresh Far	10.000	mv	23.187	7679.500
RAL	FB Thresh Near	4.000	mv	23.187	7679.500
RAL	FB Thresh Radial	4.000	mv	23.187	7679.500
RAL	Fluid Travel Time	200.000	usec/ft	23.187	7679.500

DEPTH OFFSETS

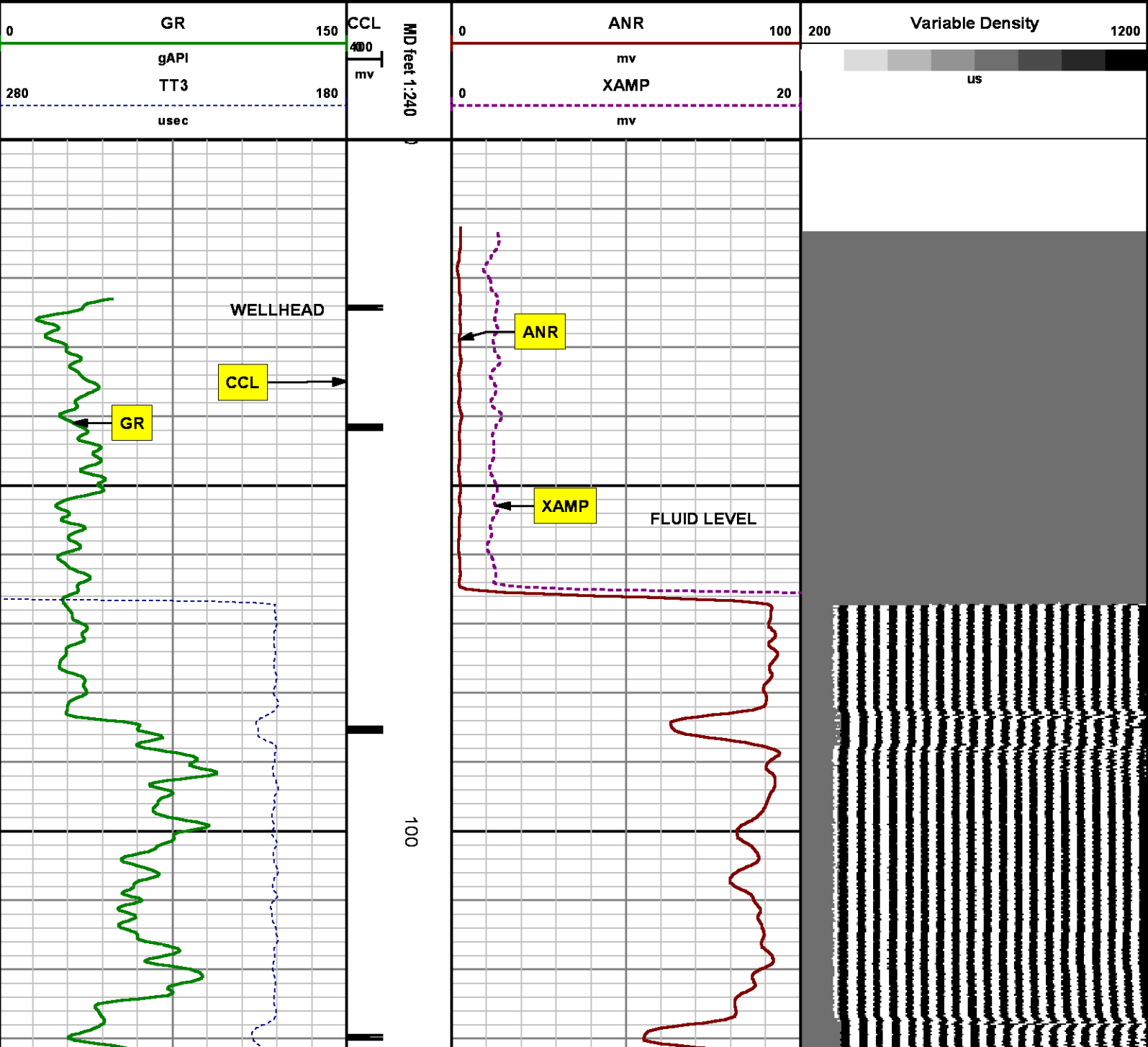
(for Acquired Curves)

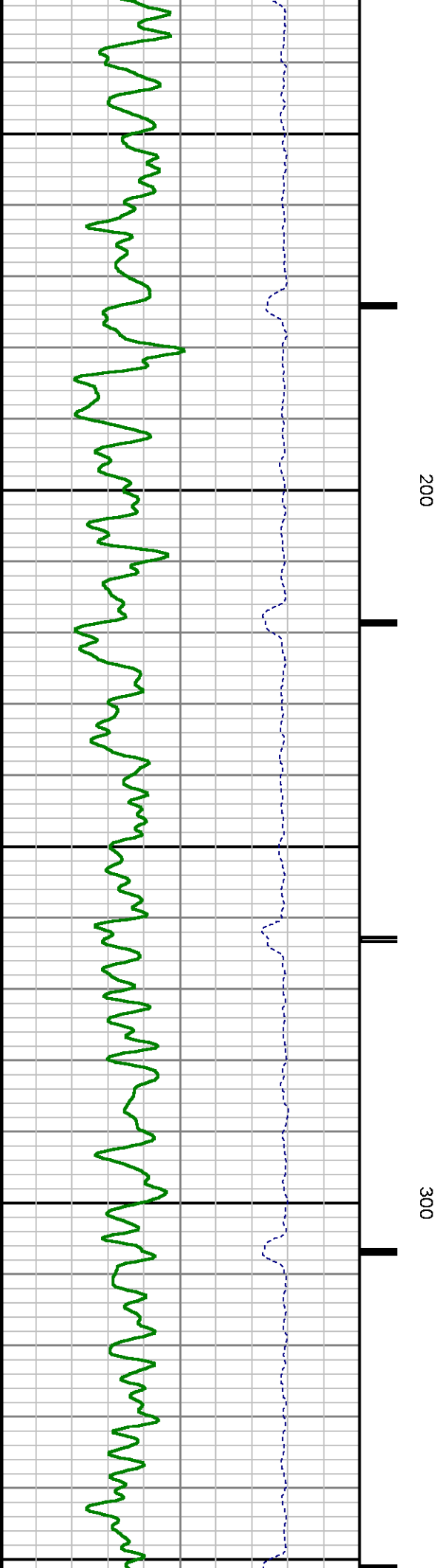
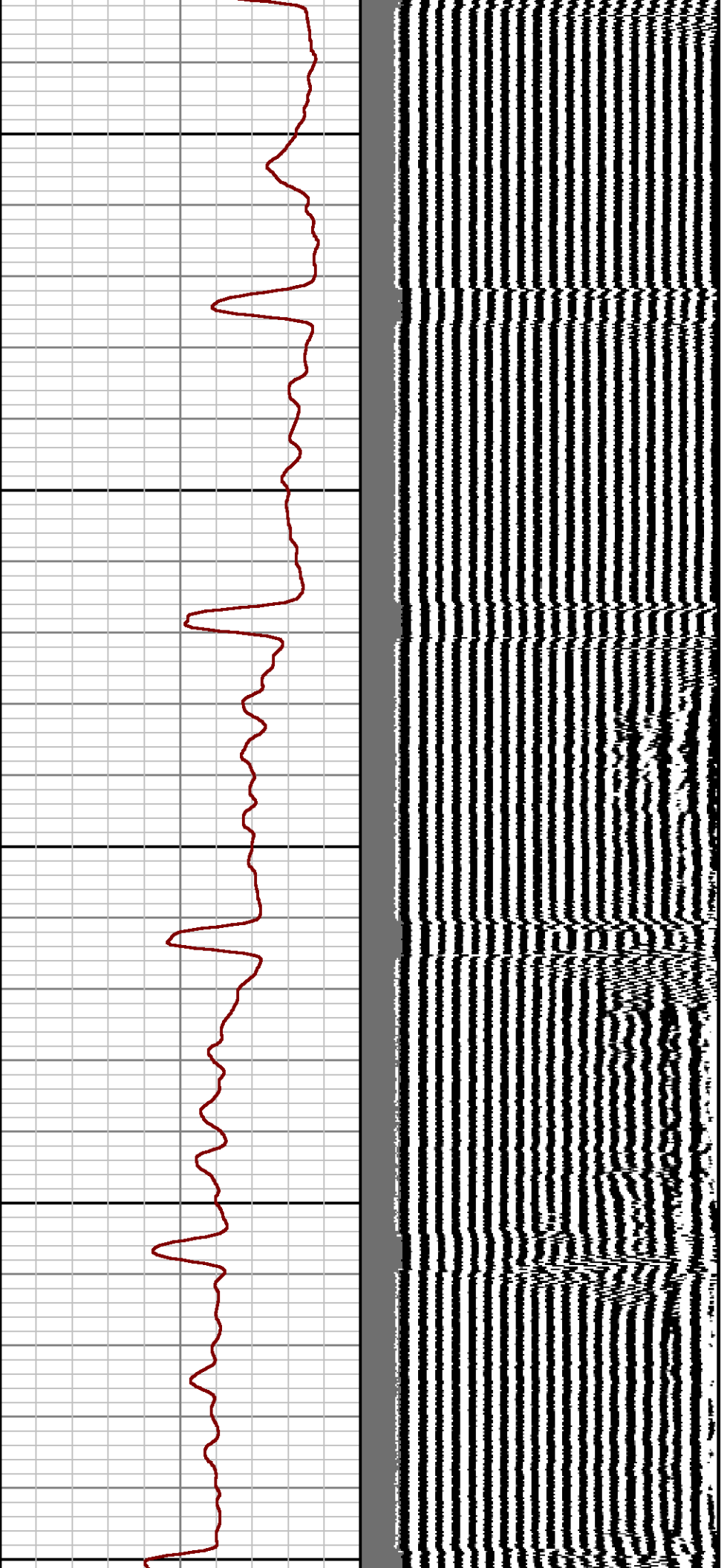
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

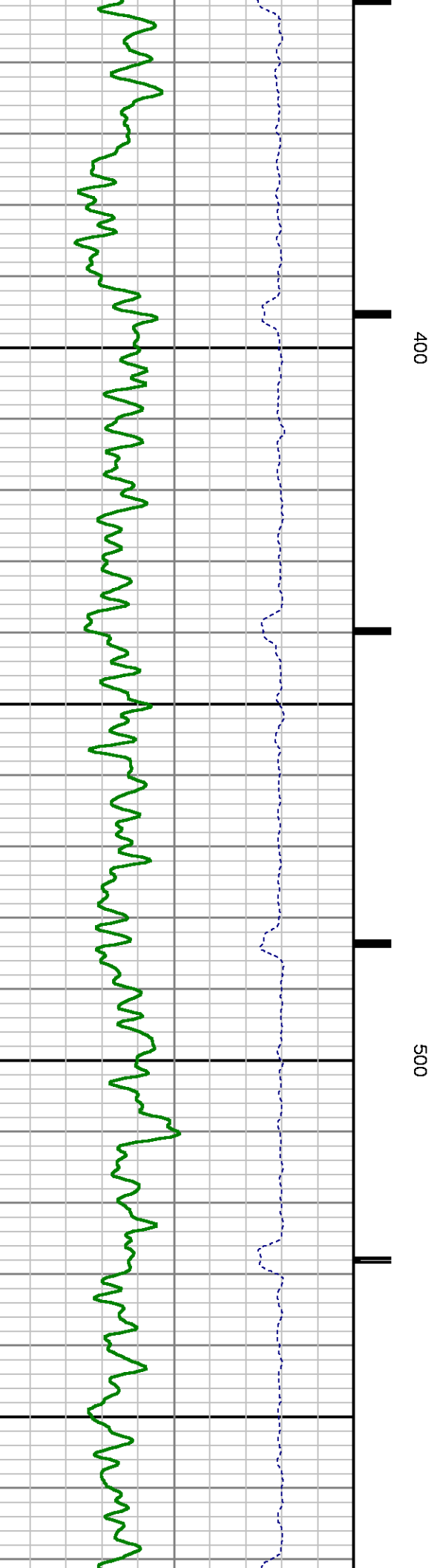
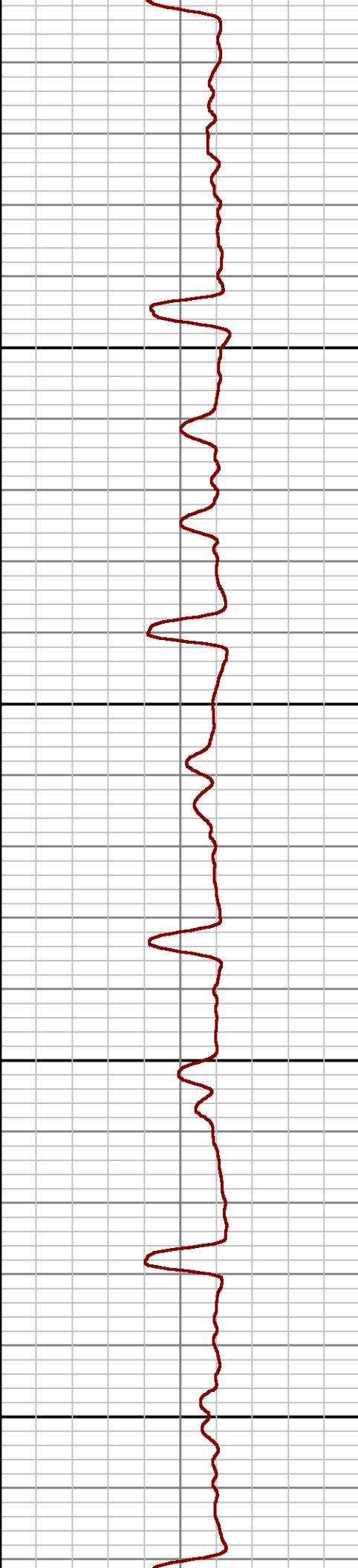
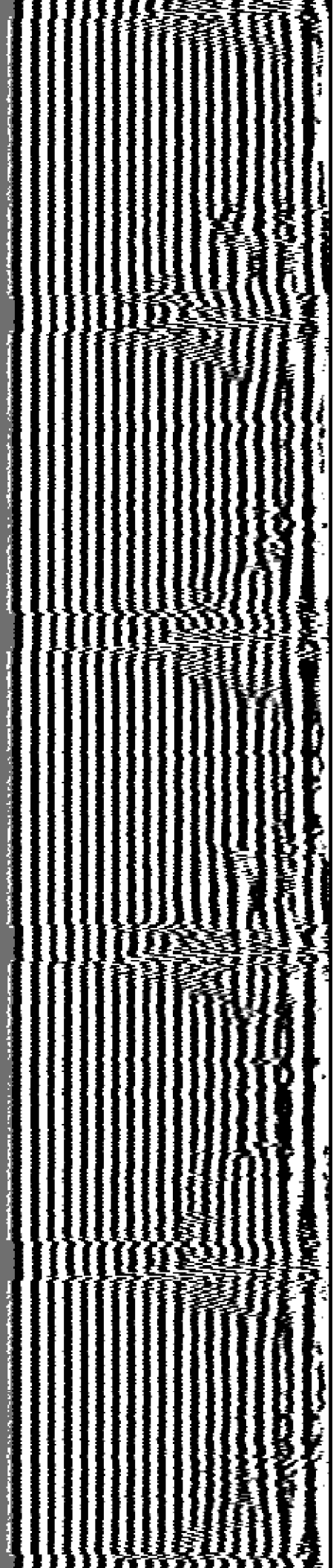
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

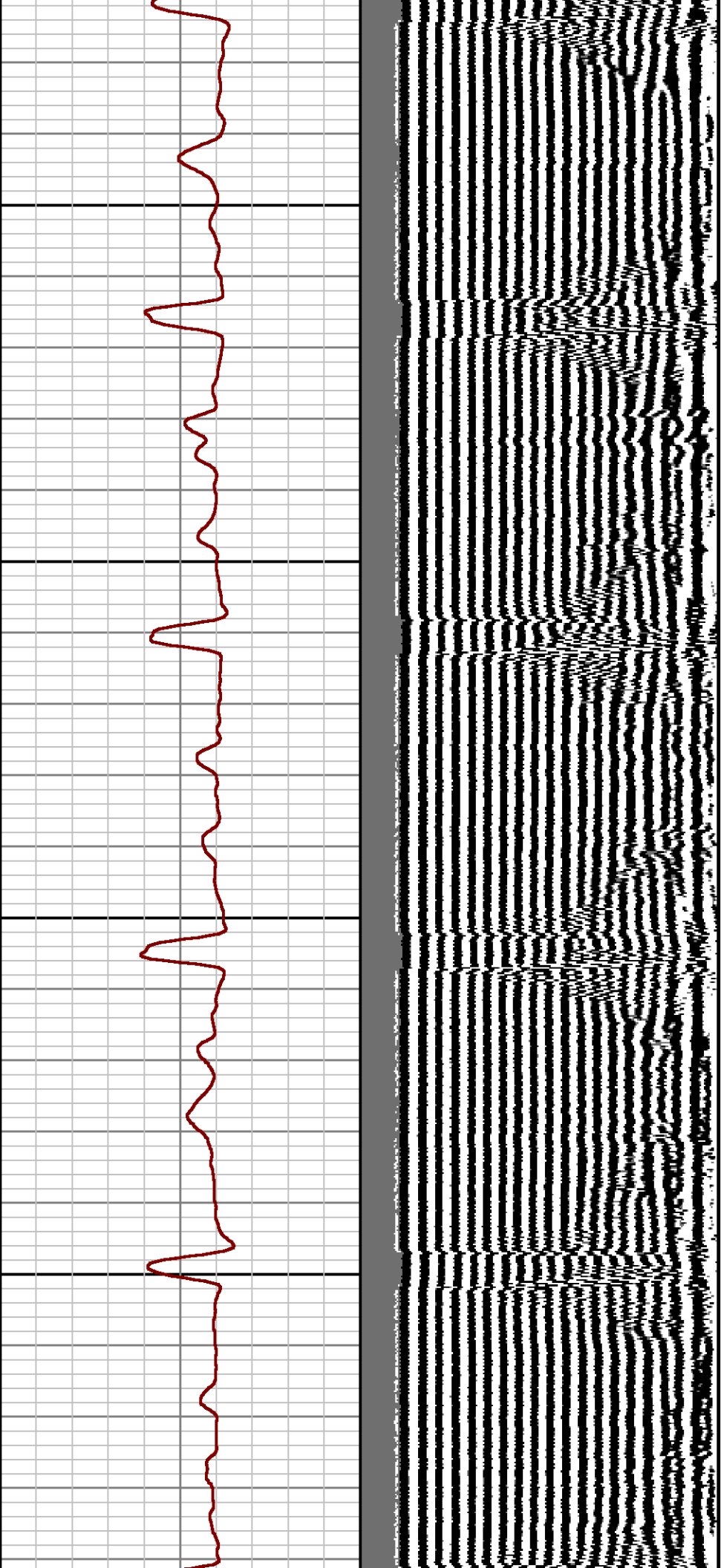
Created by : RAL, v4.8.008
 Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY
 Well : C&C ENERGY GM 44-12
 File Name : D:\WELLDATA\WPX\GM 44-12\44ra\MAIN .XTF
 Mode : PlotMgr 5.4.504
 Interval : 0.00 - 7679.50 feet UP
 Created : 9/6/2014 7:50:31 AM



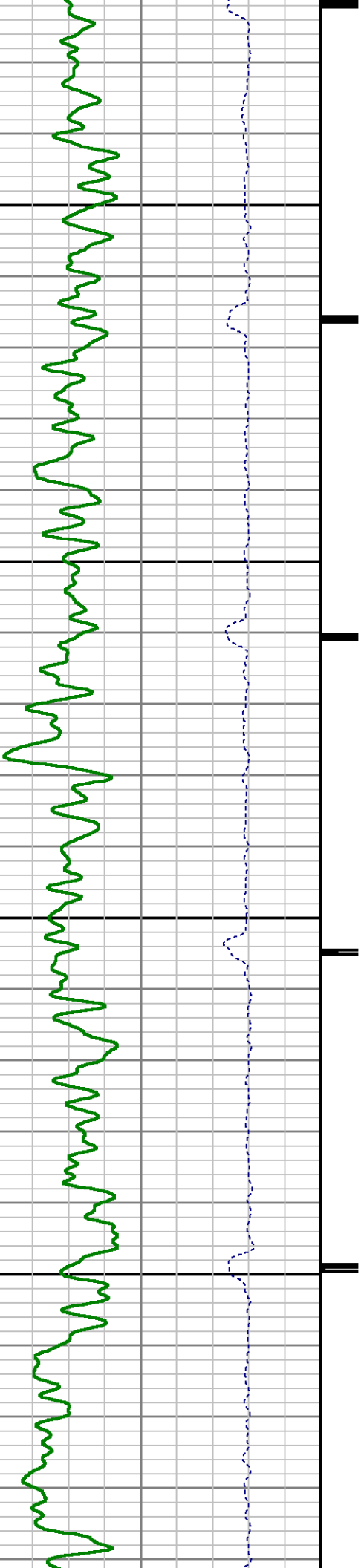


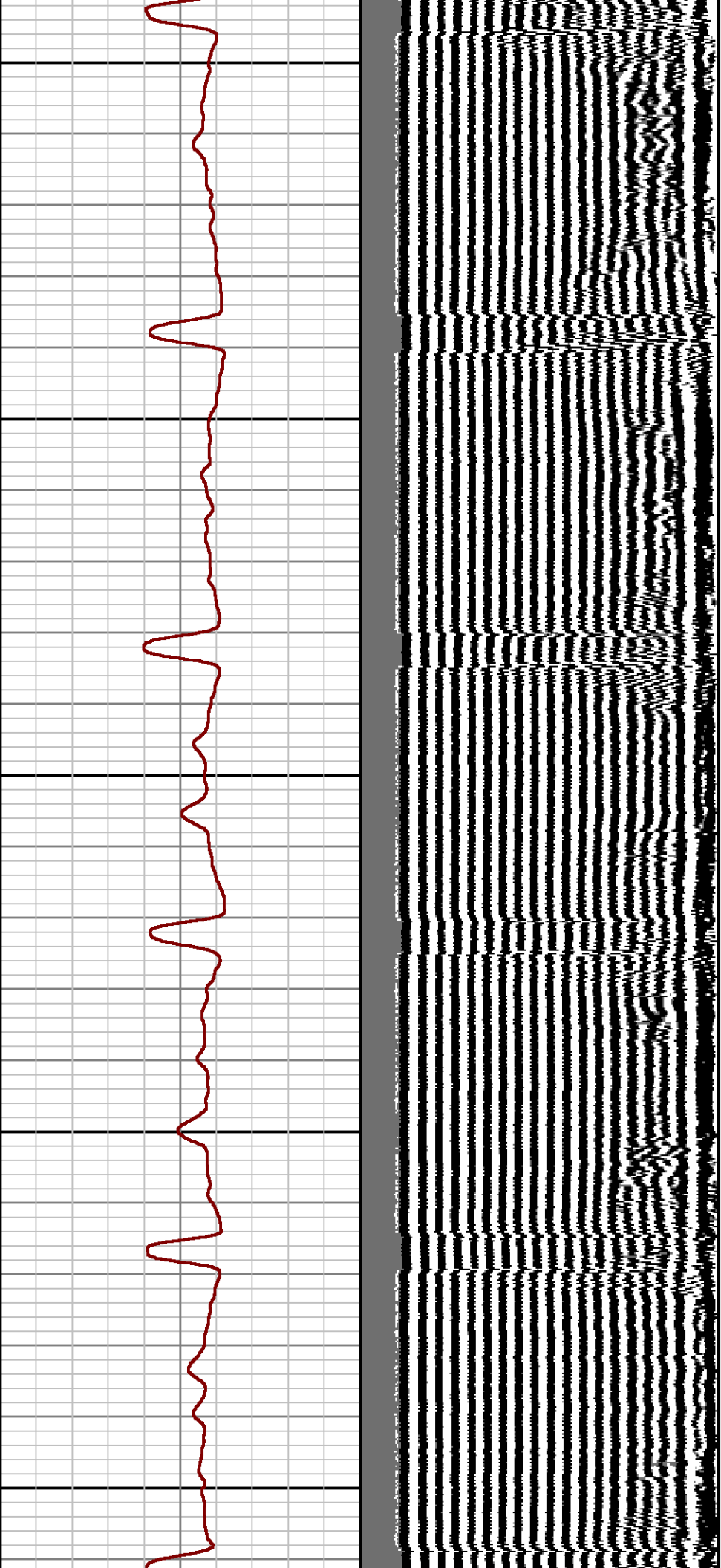




600

700

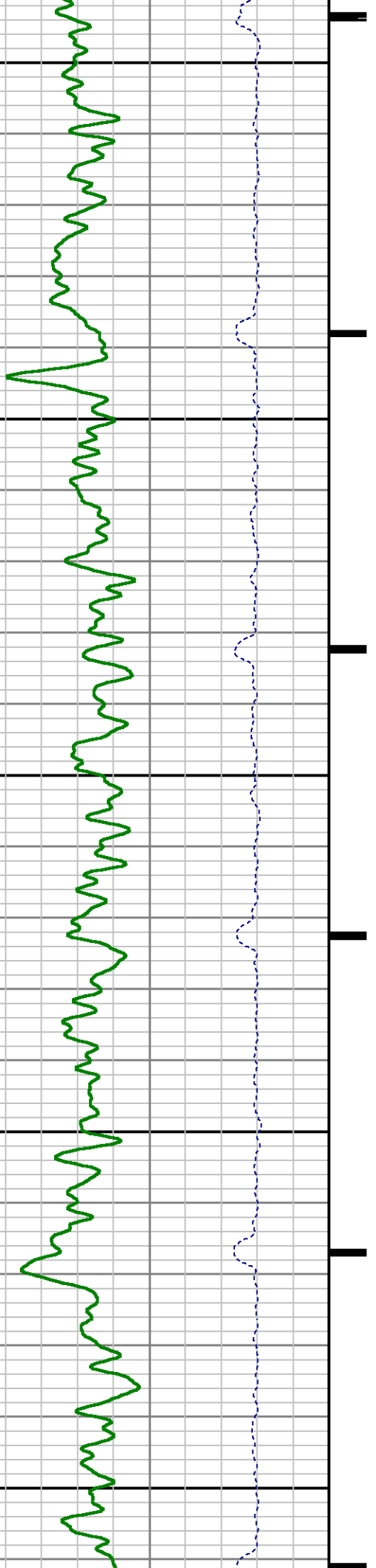


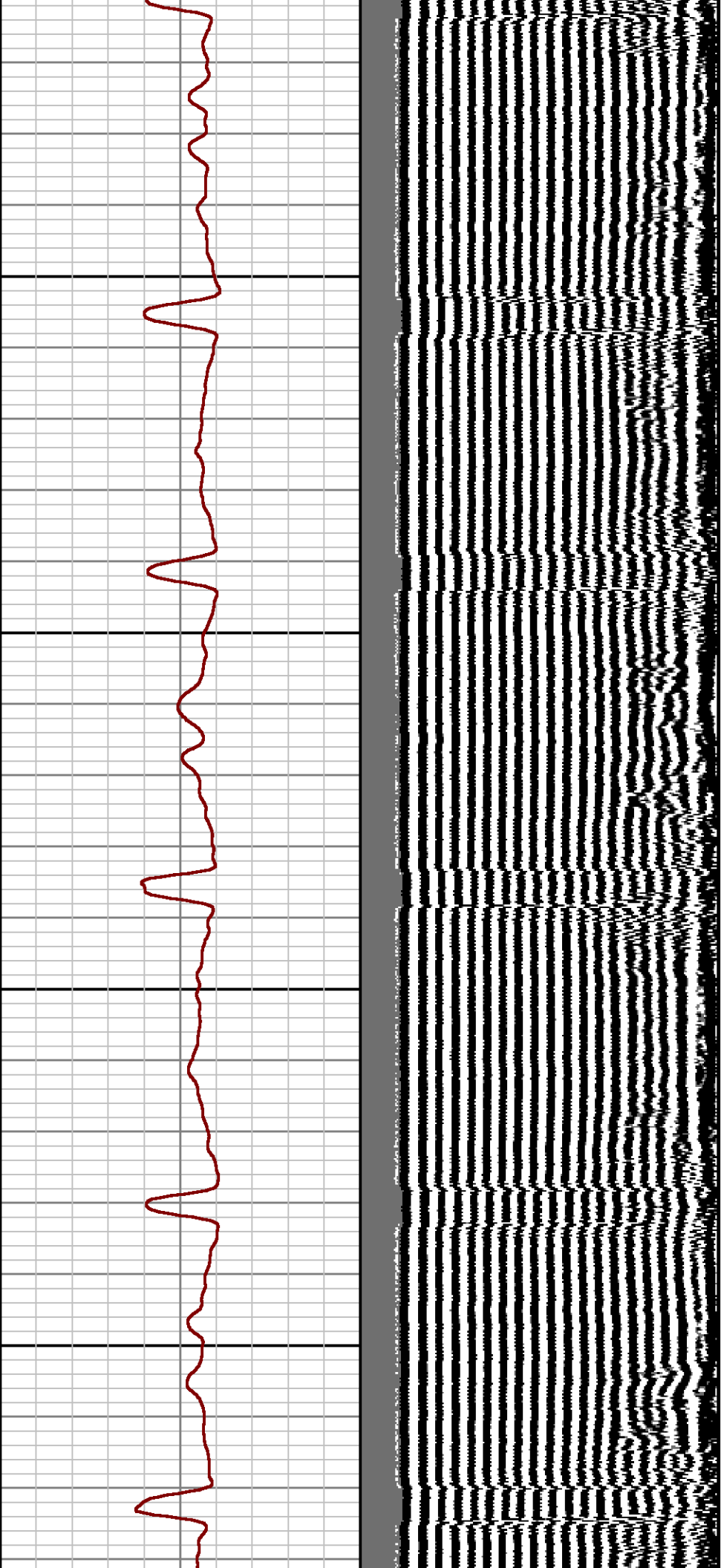


800

900

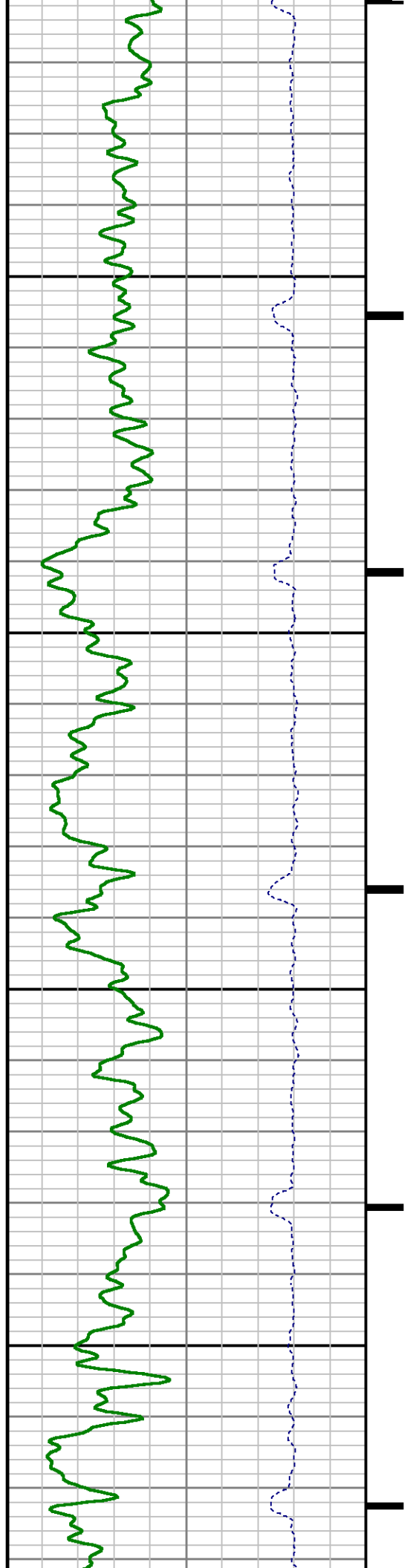
1000

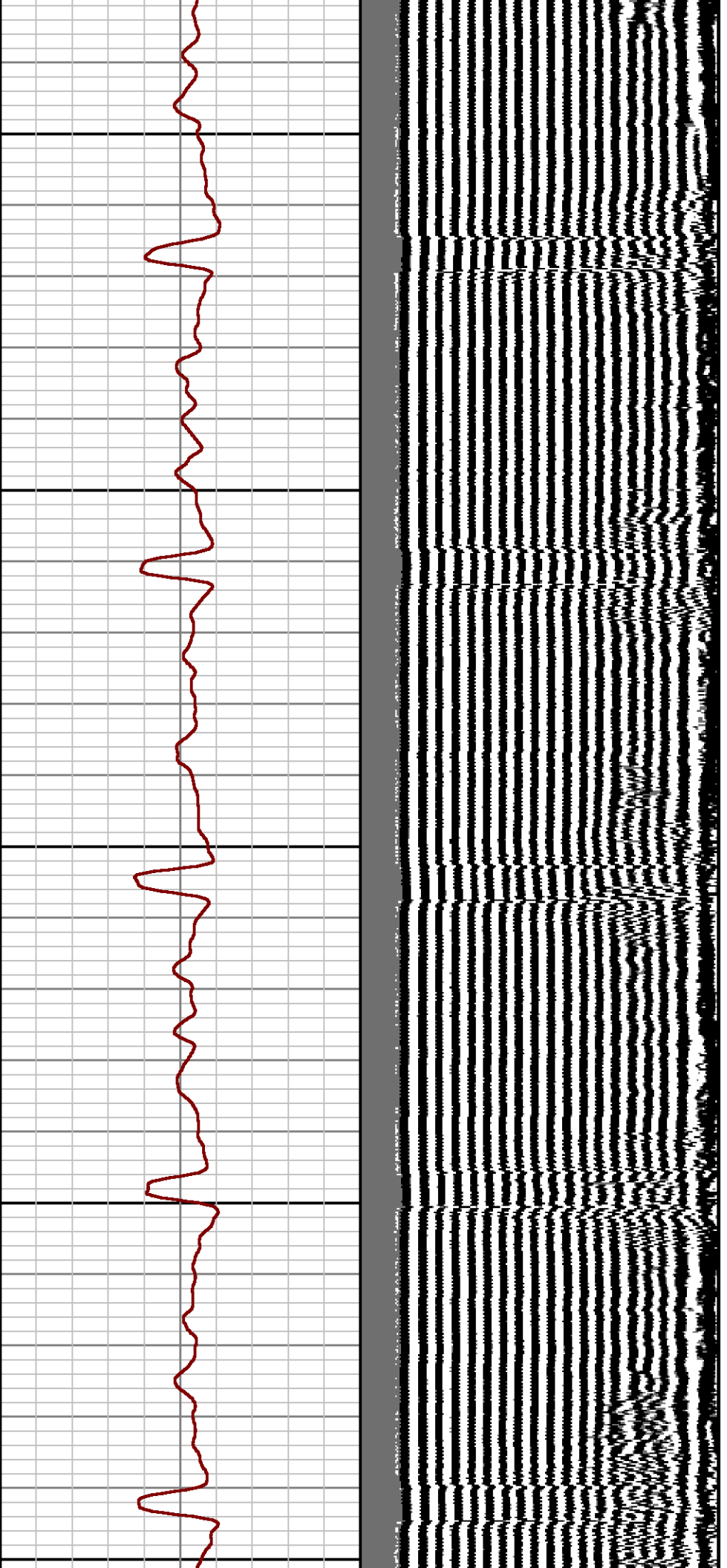




1100

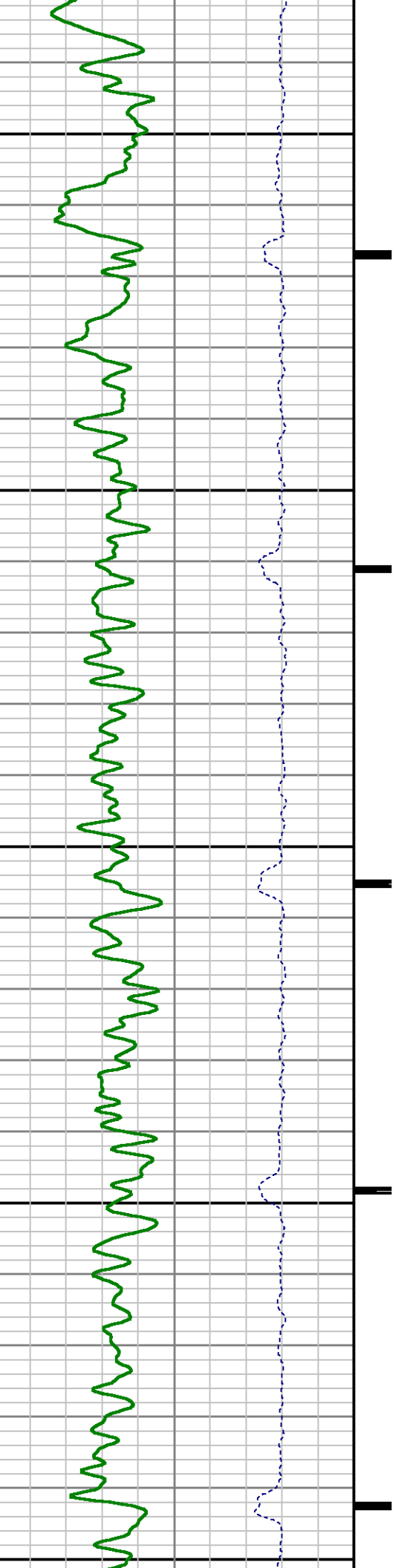
1200

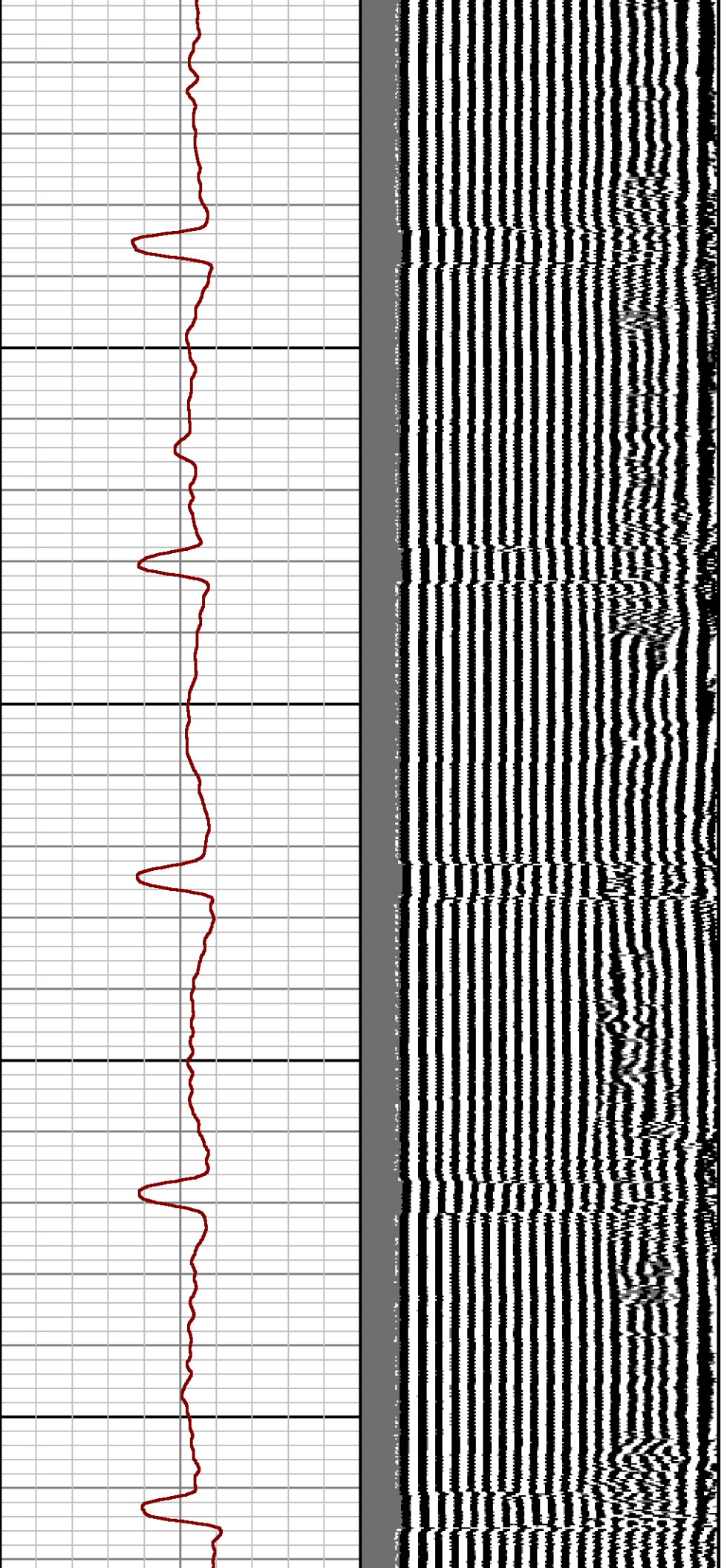




1300

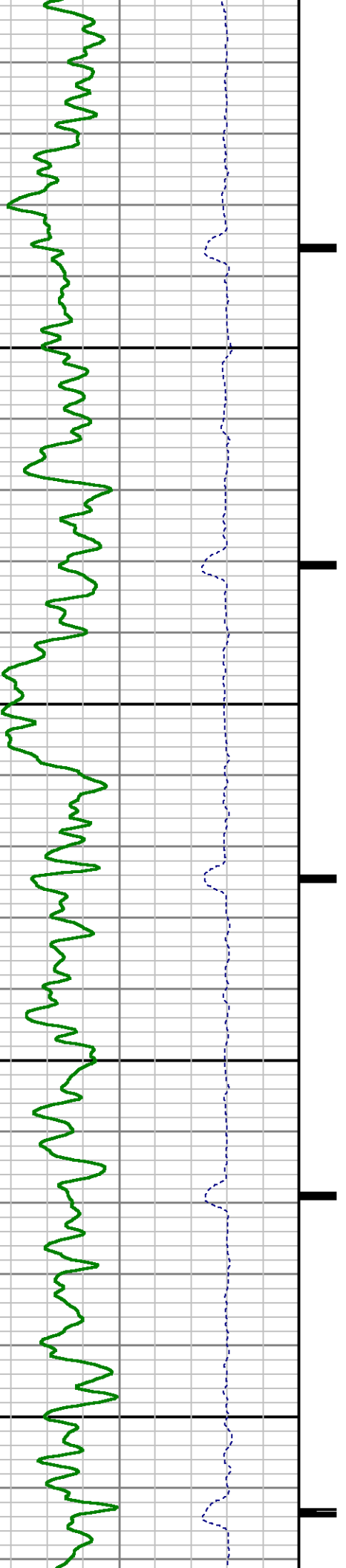
1400

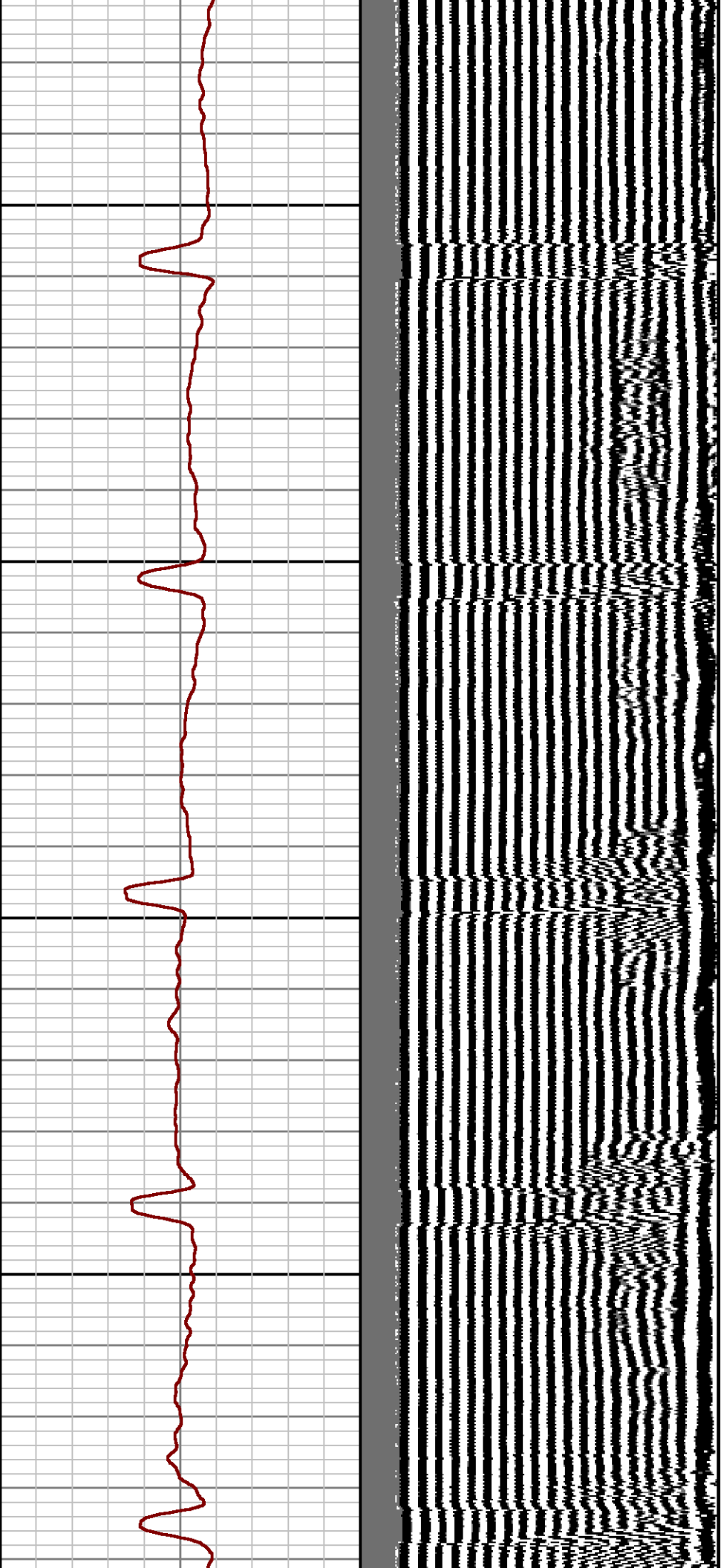




1500

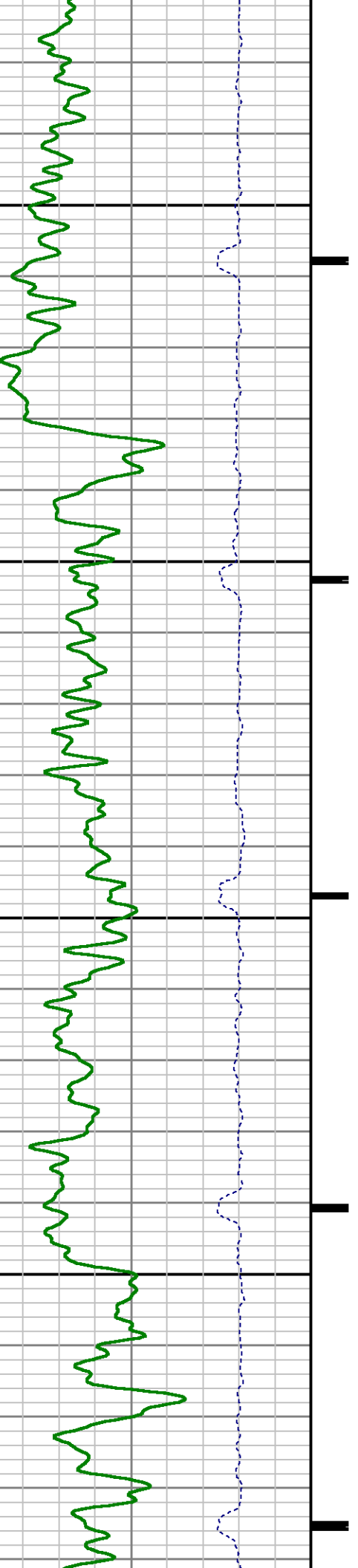
1600

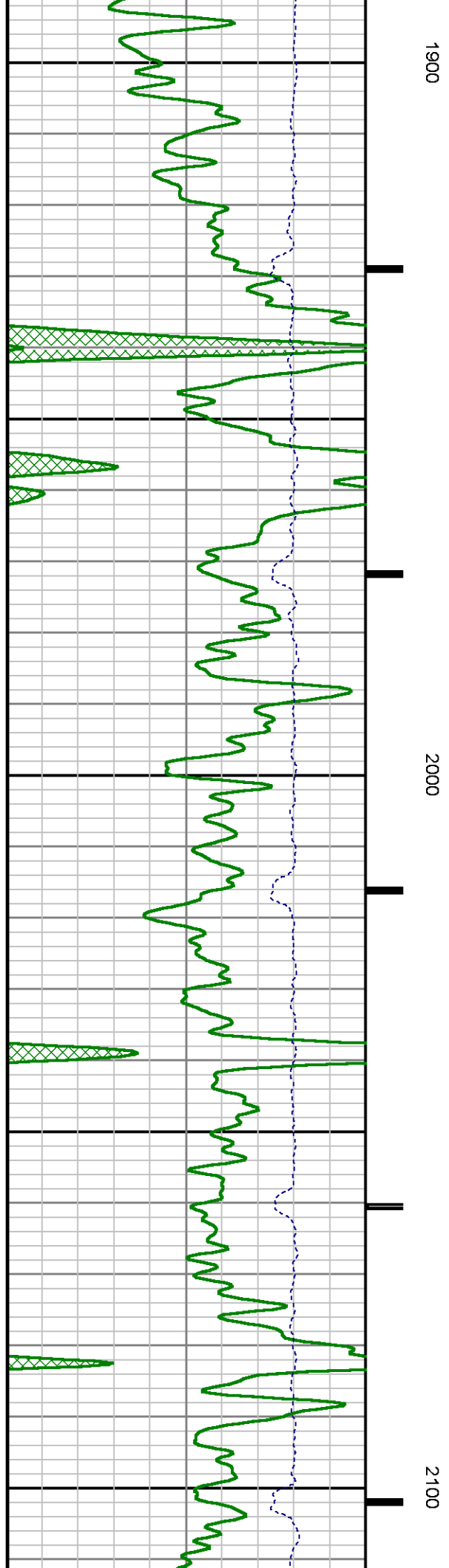
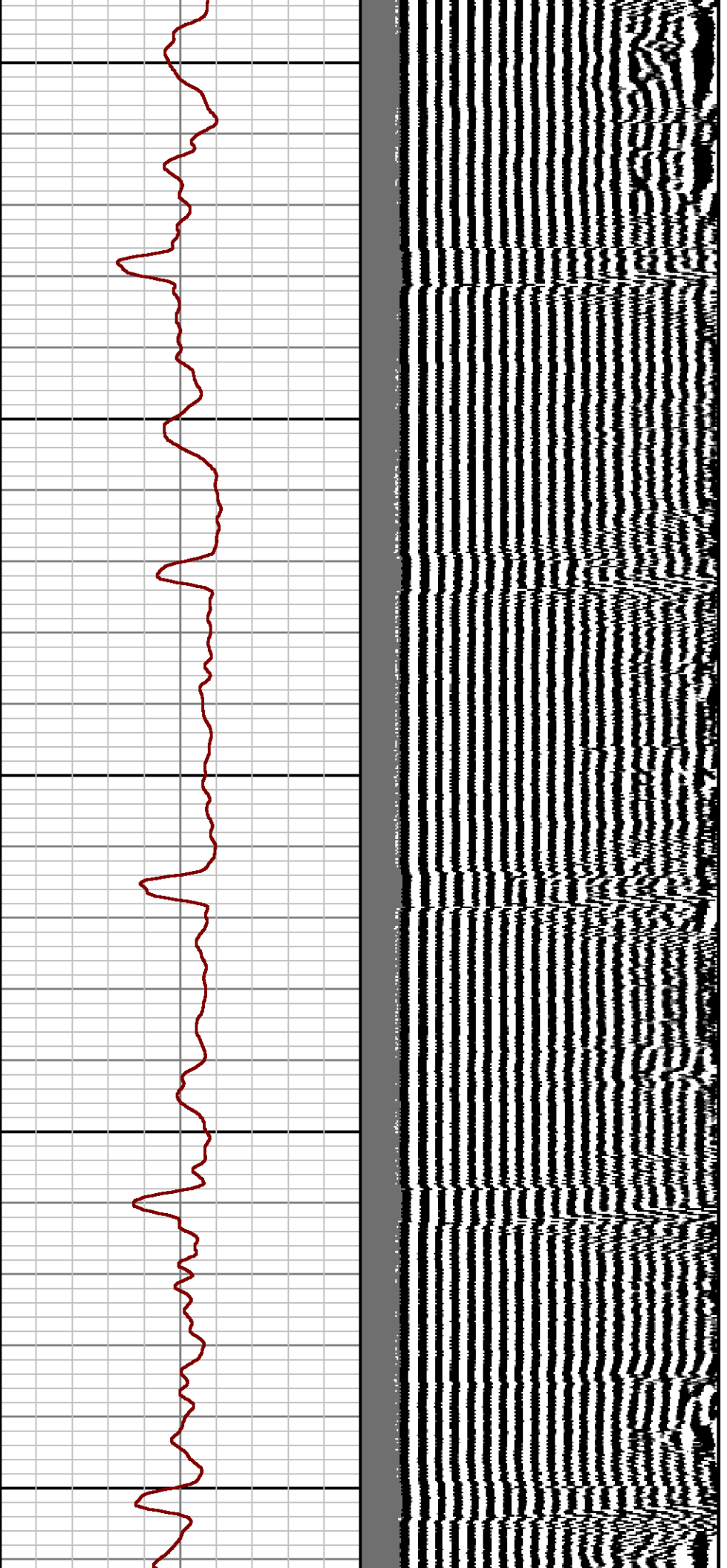


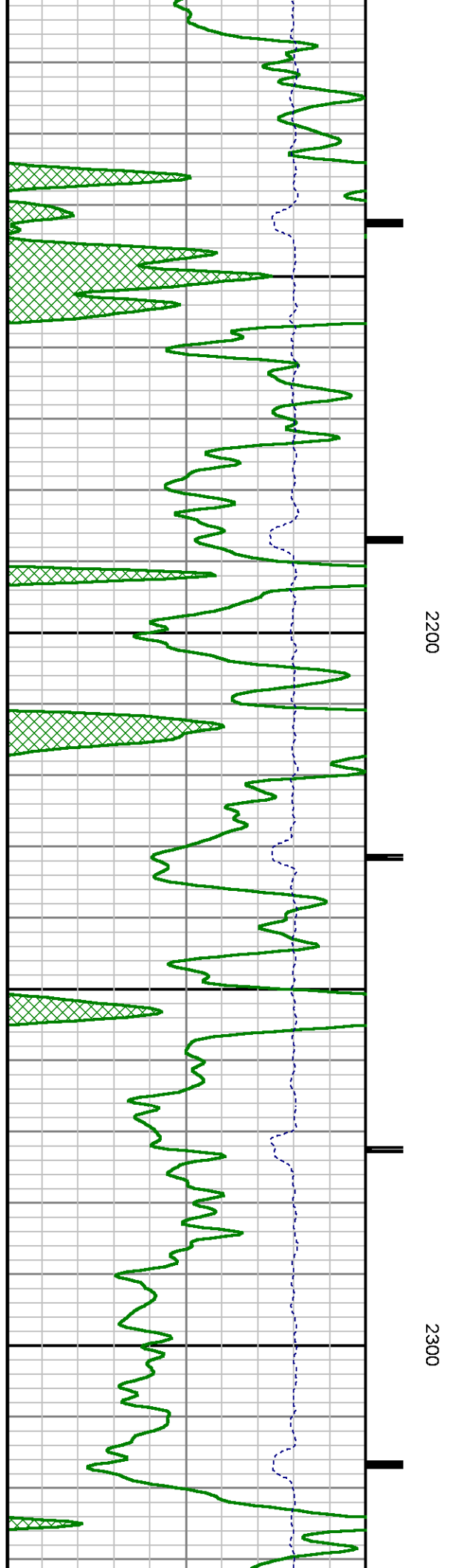
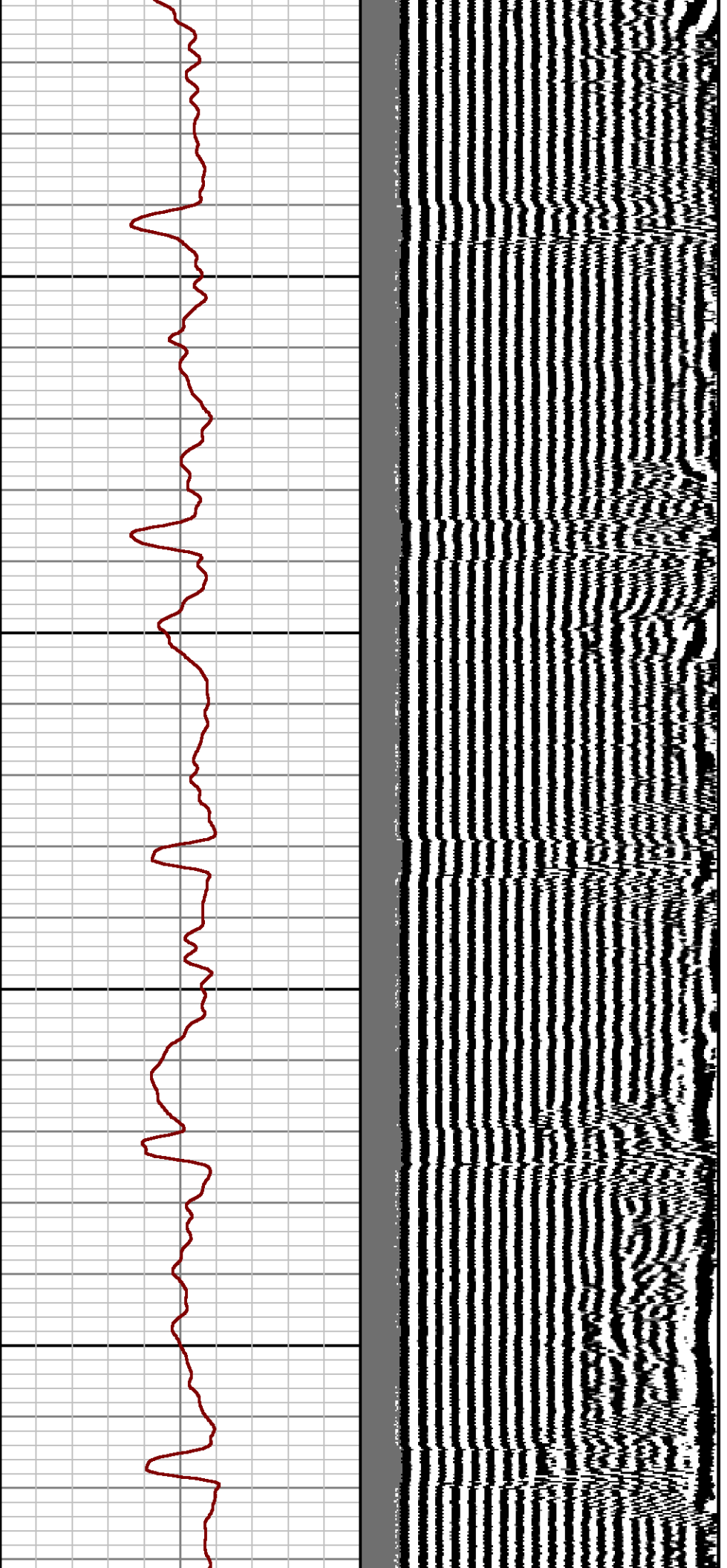


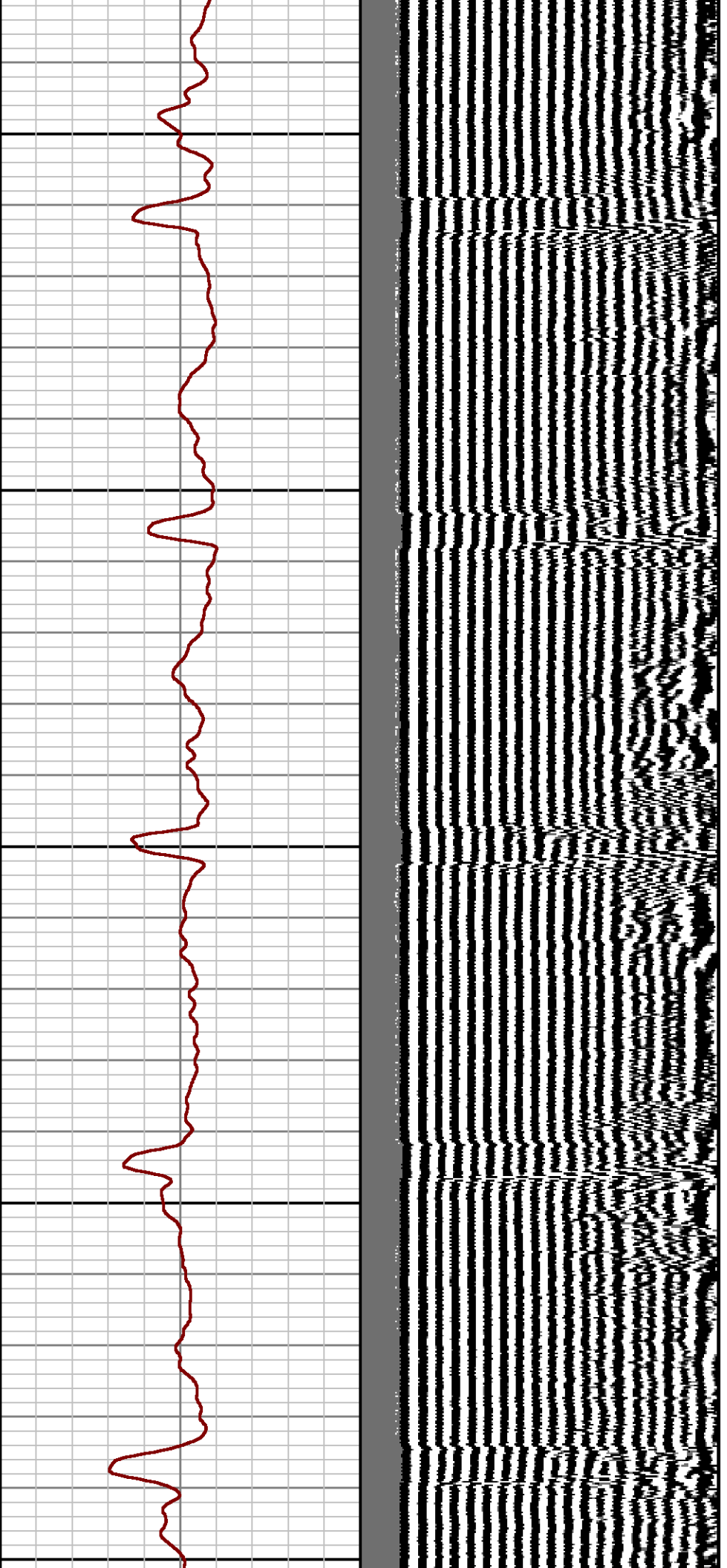
1700

1800



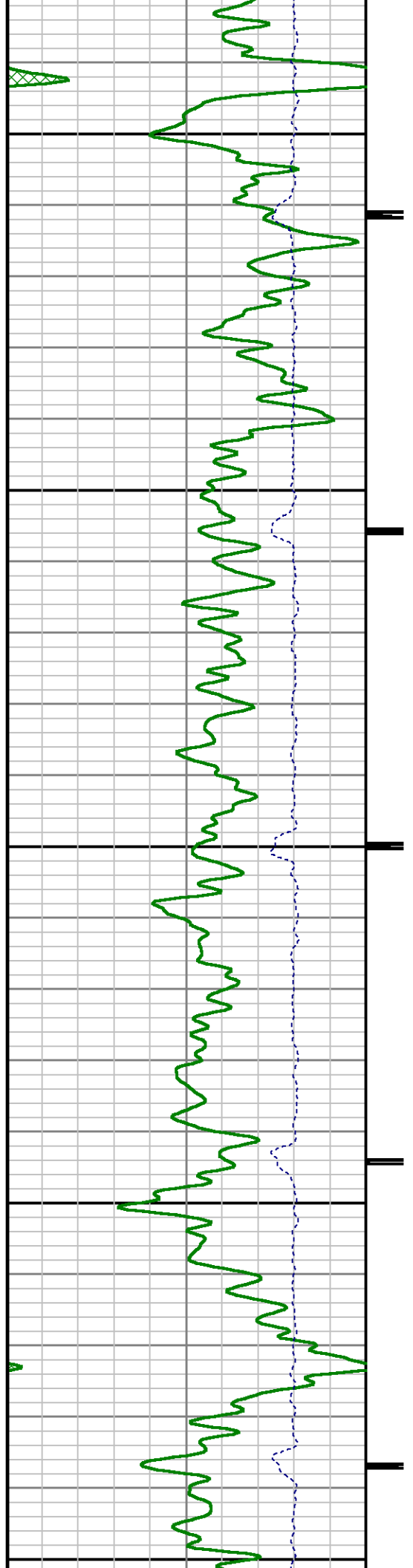


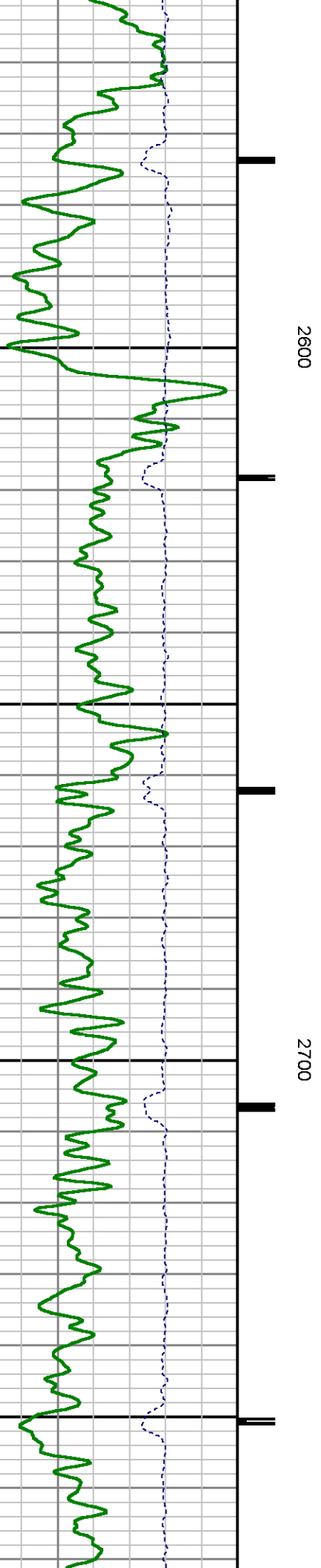
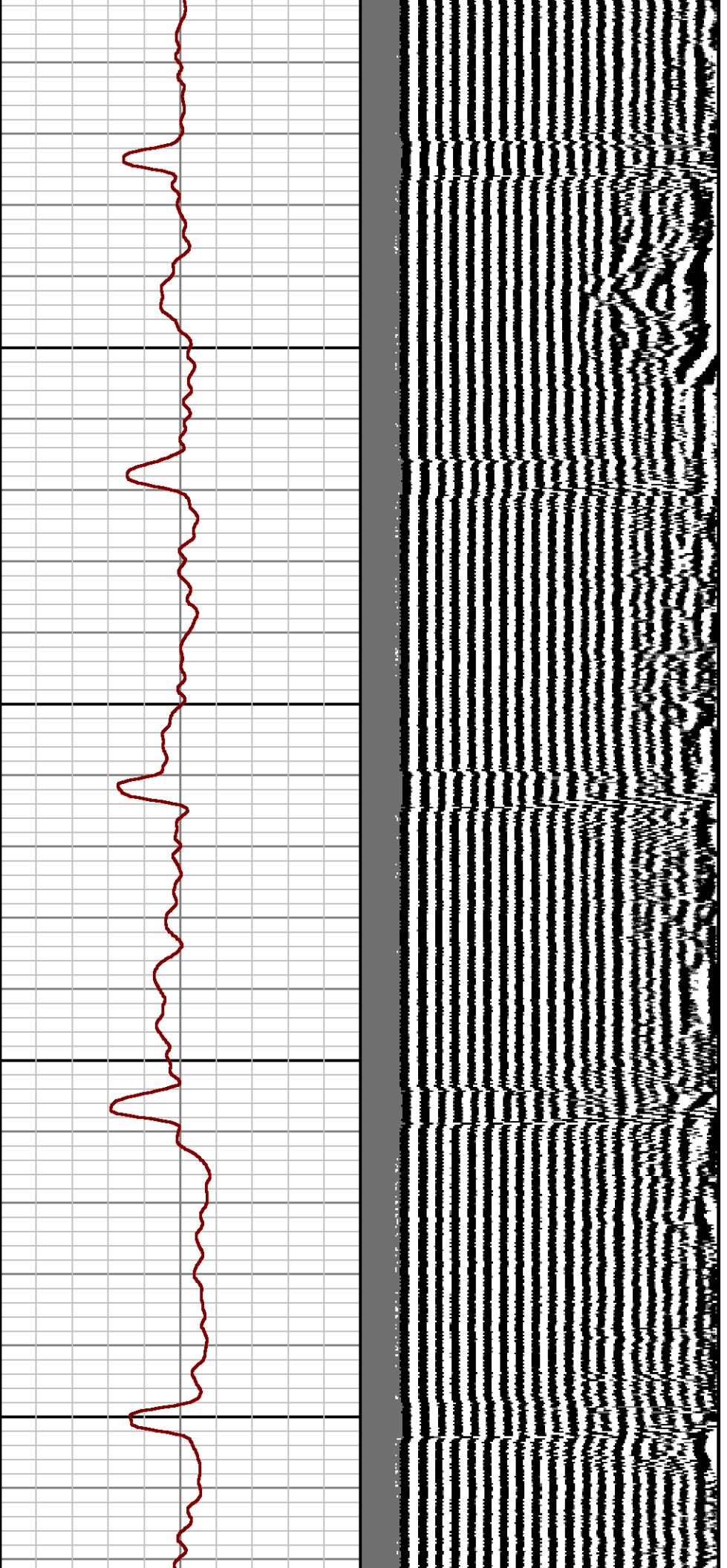


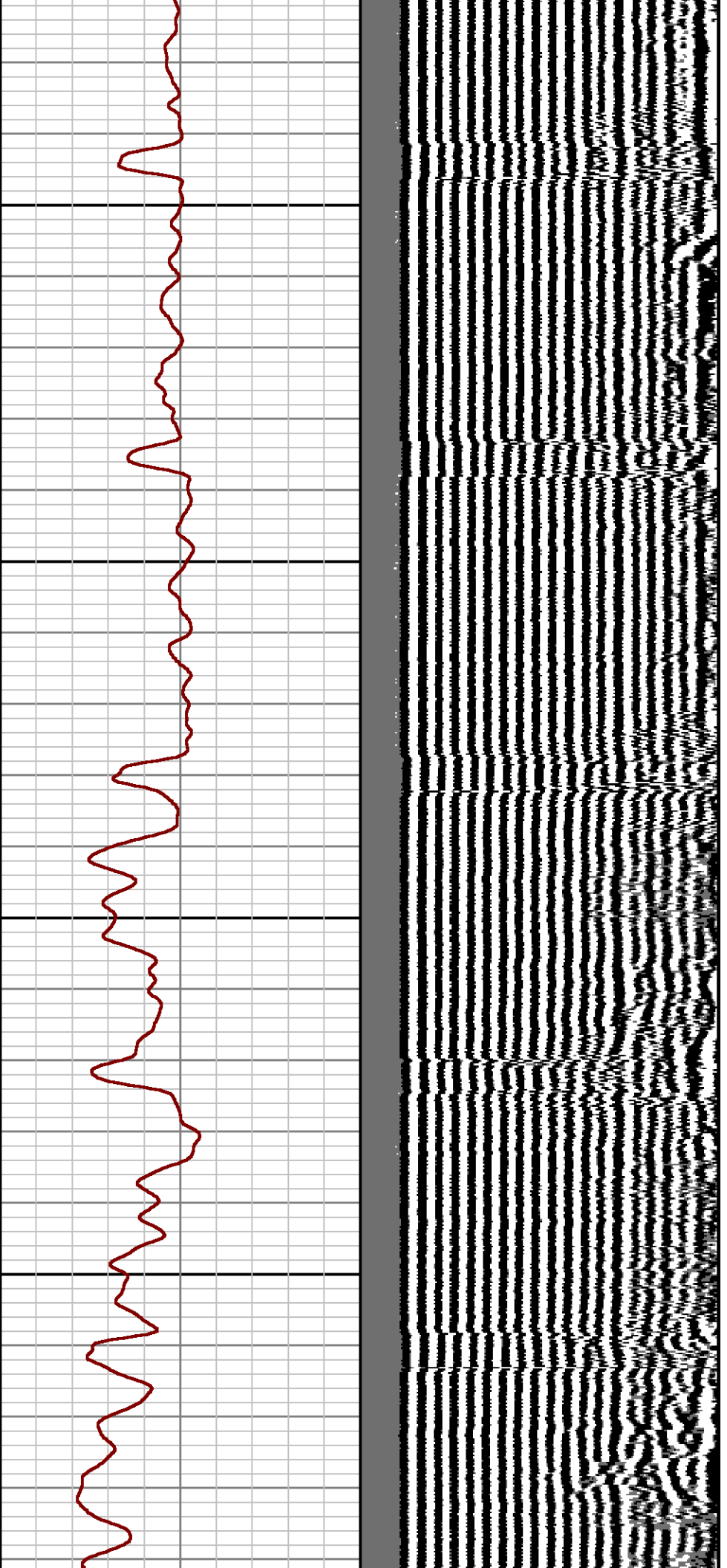


2400

2500

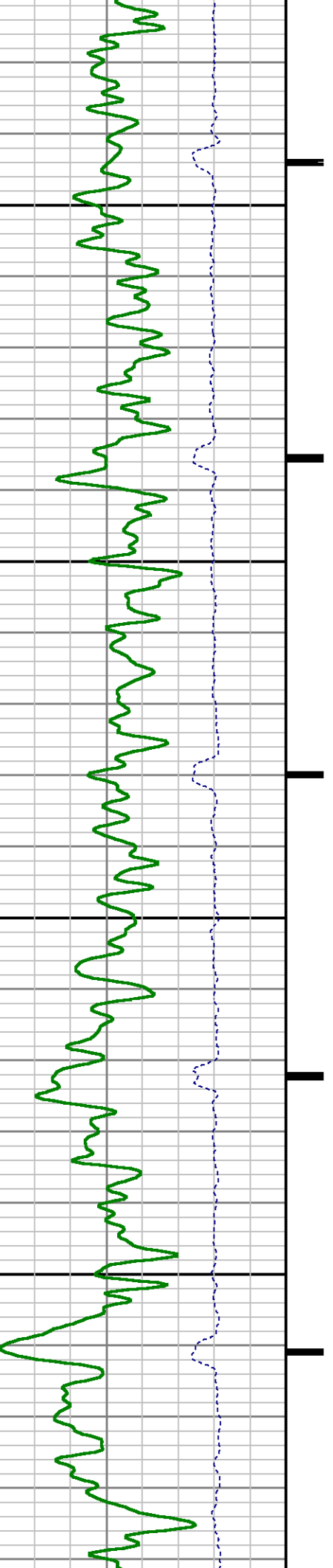


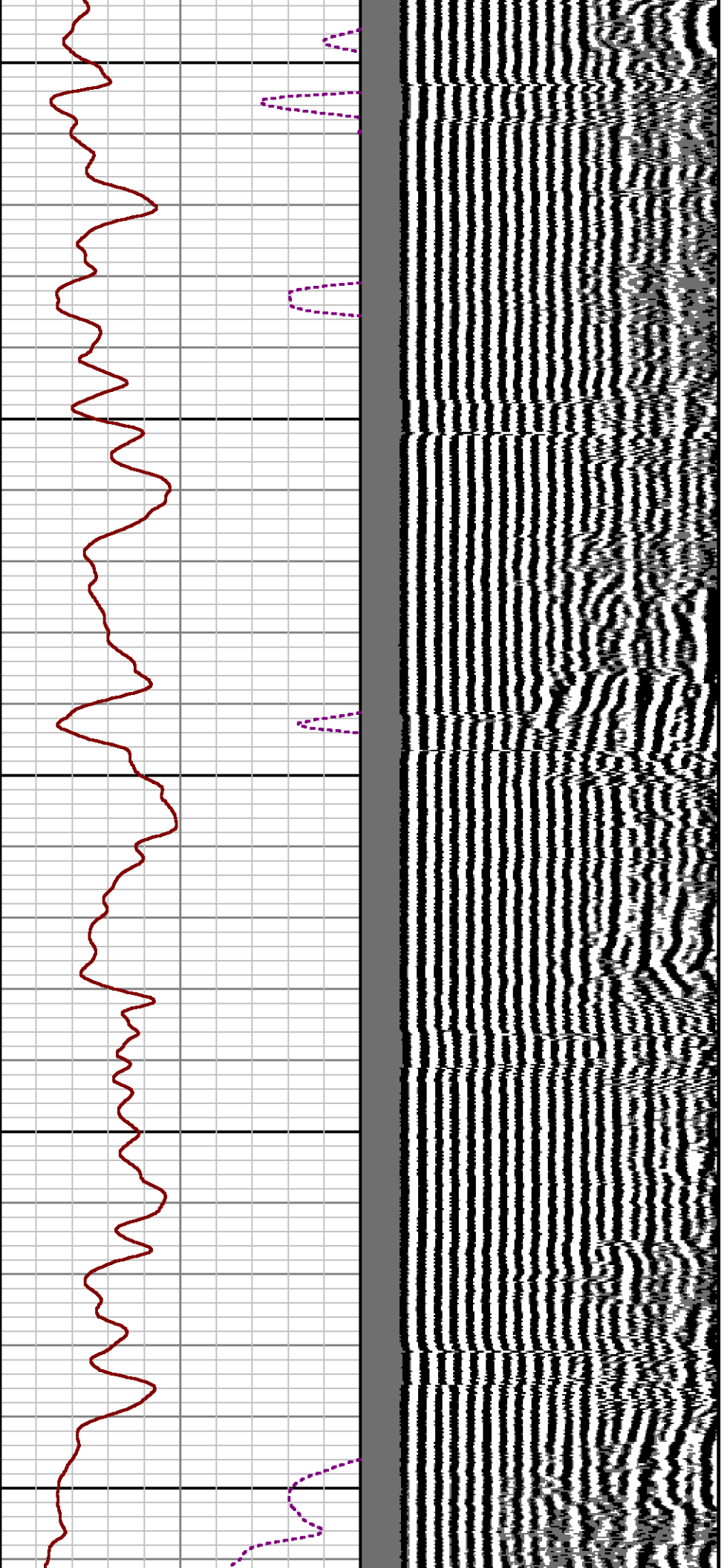




2800

2900

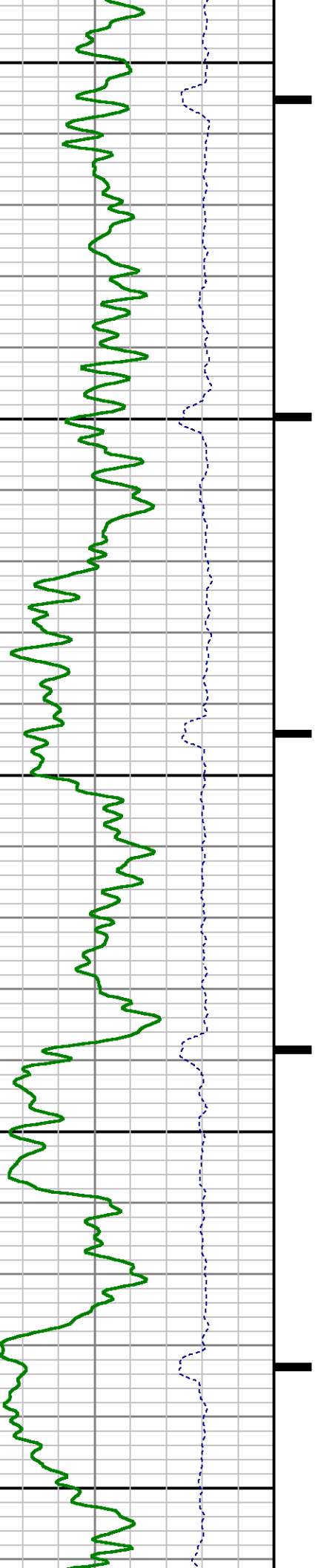


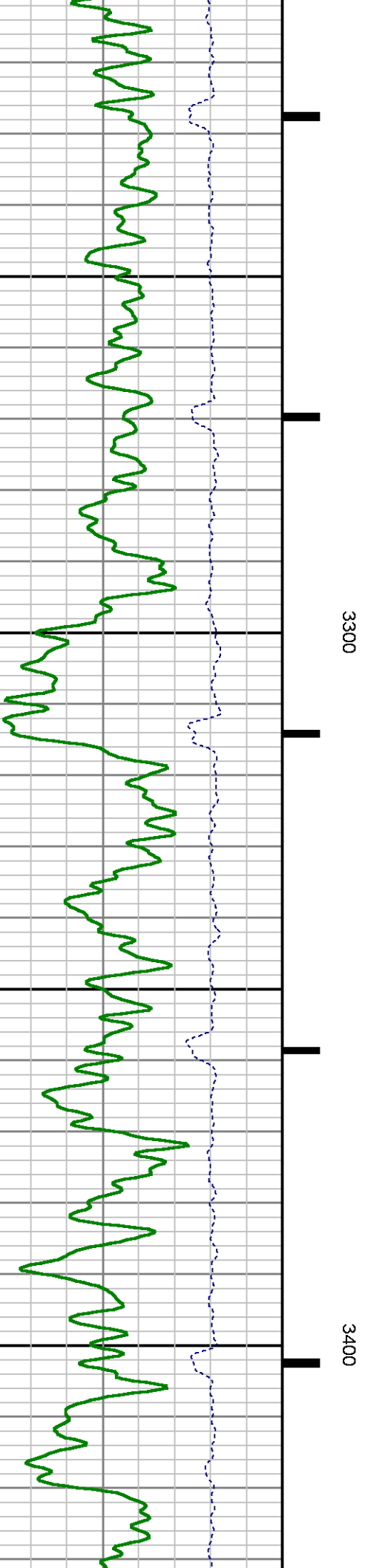
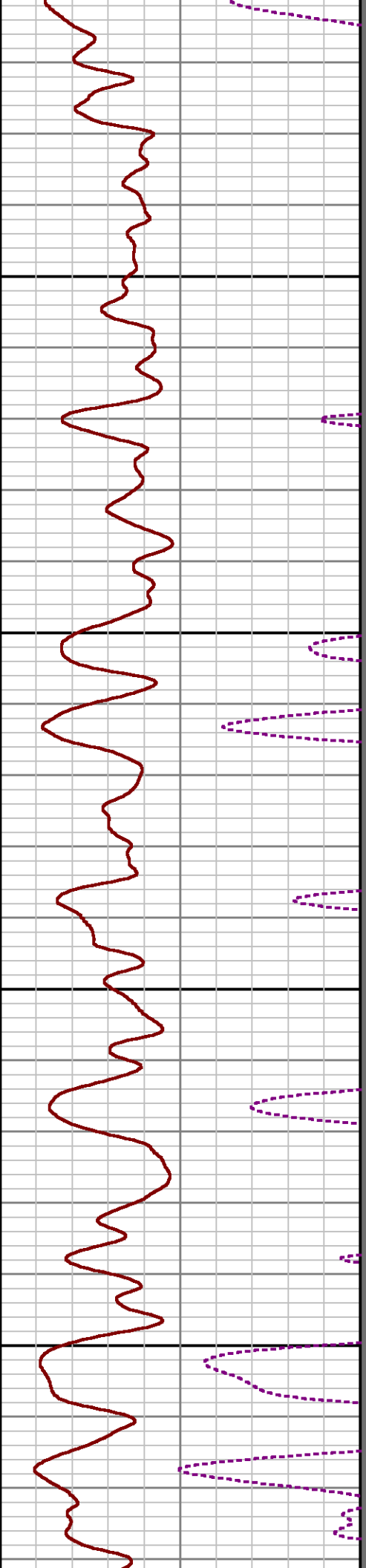
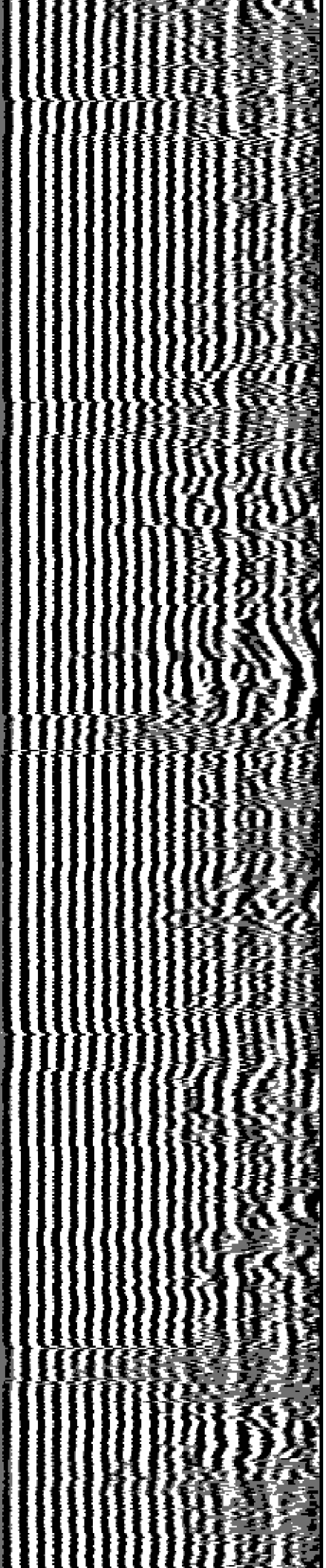


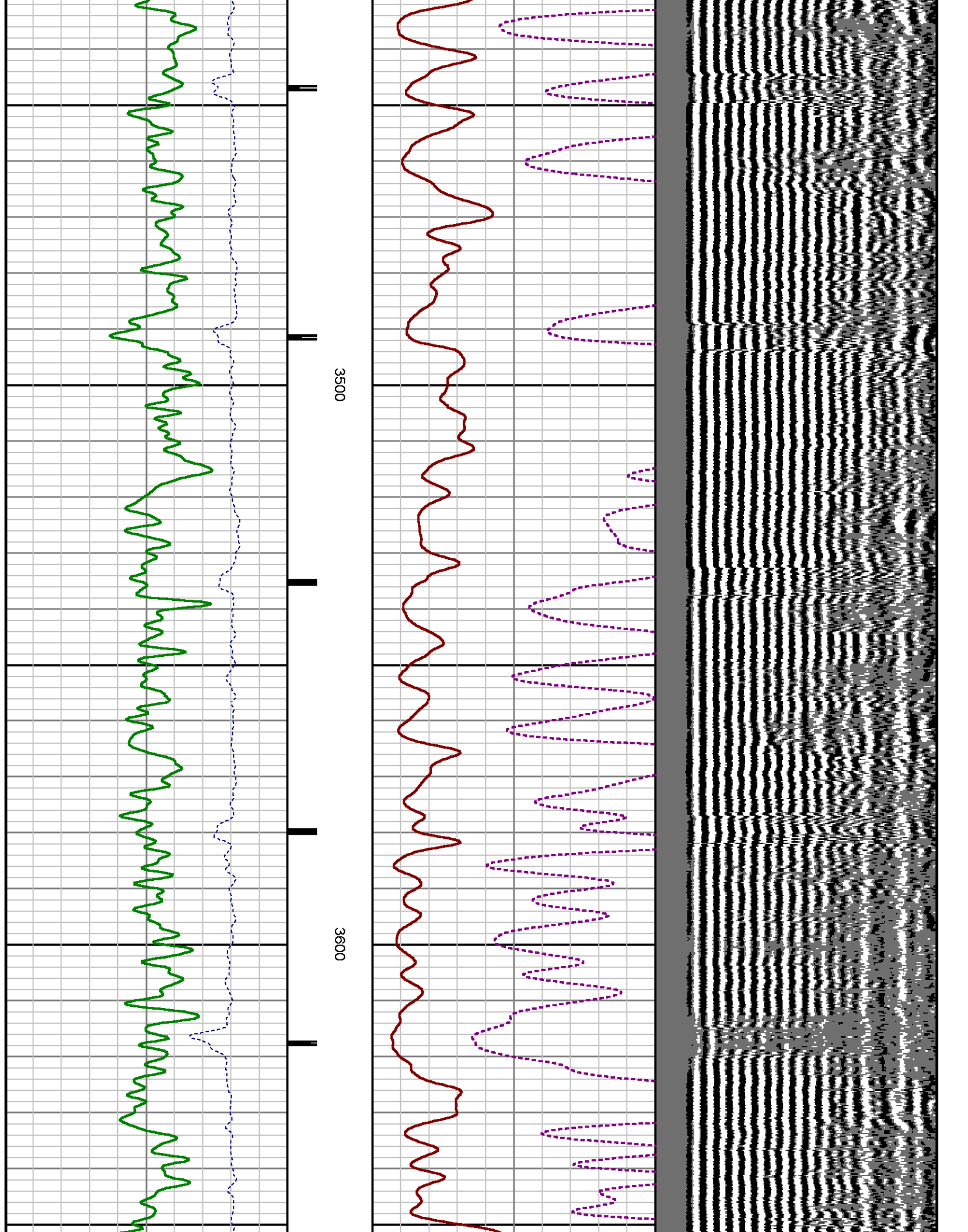
3000

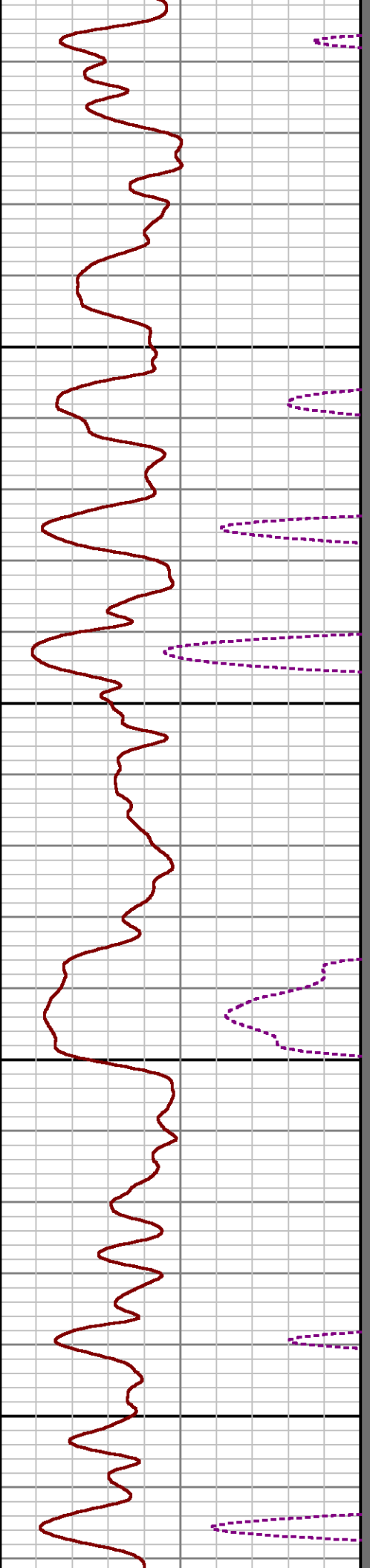
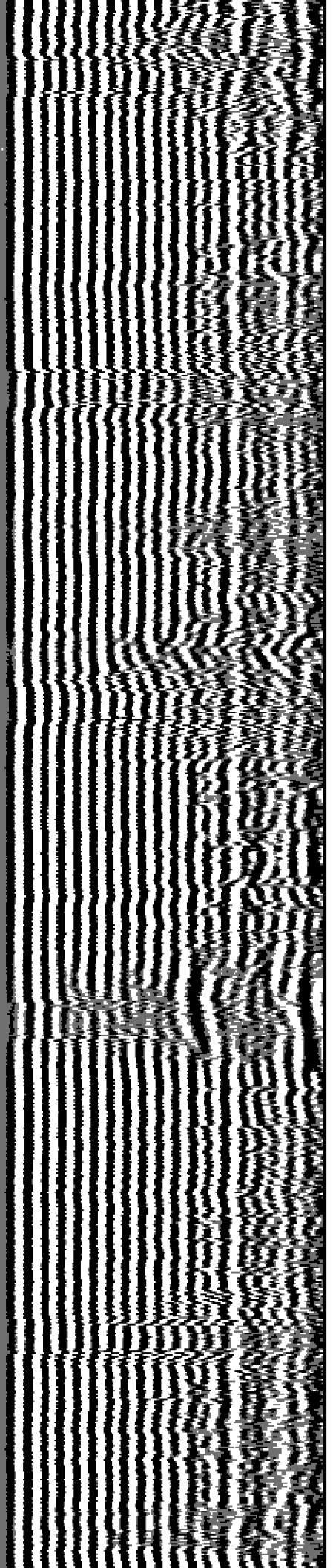
3100

3200



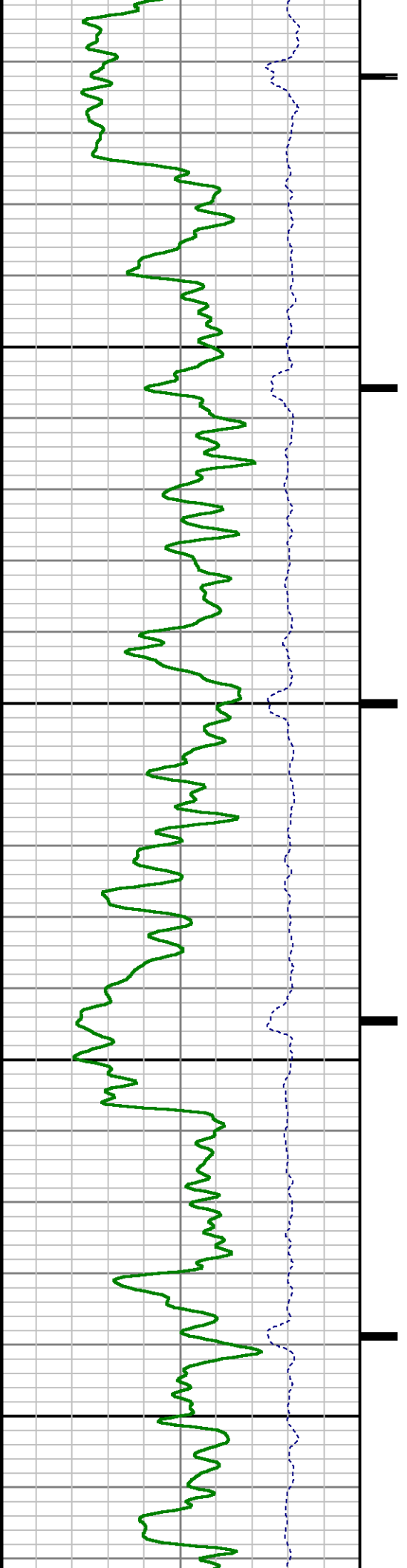


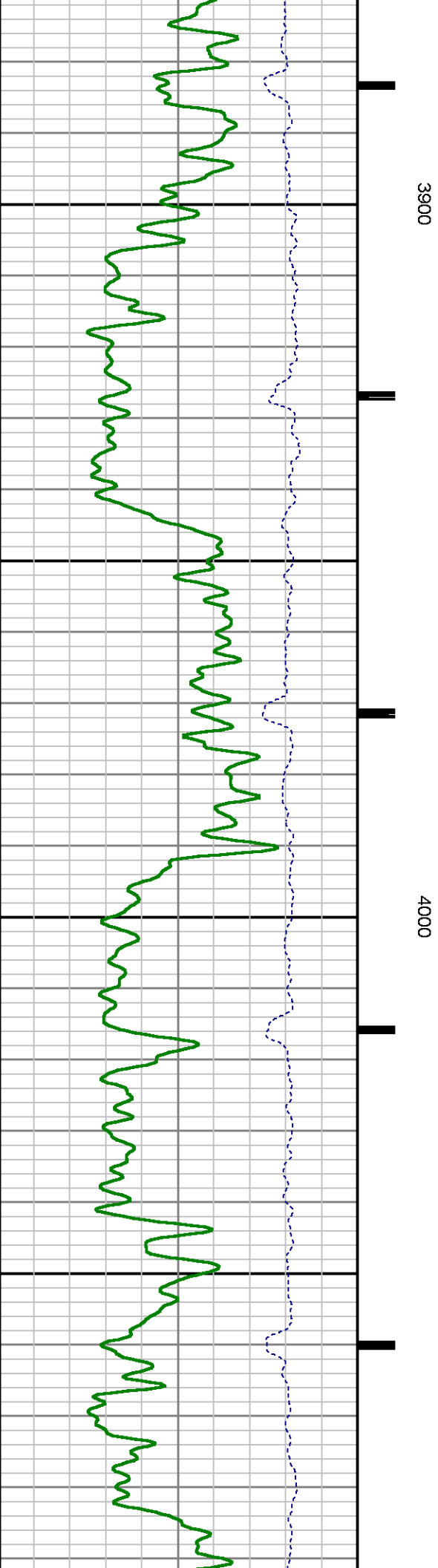
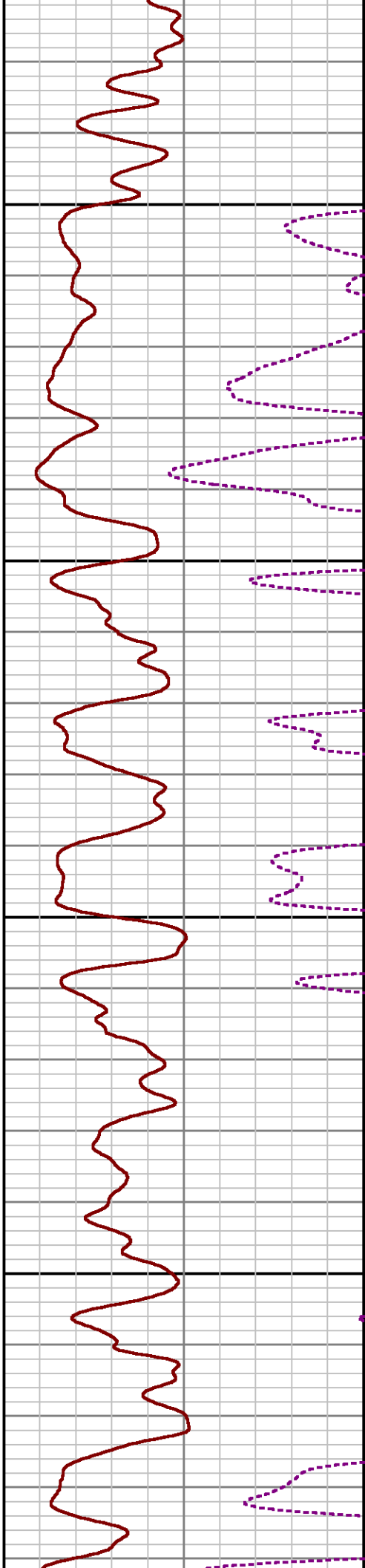
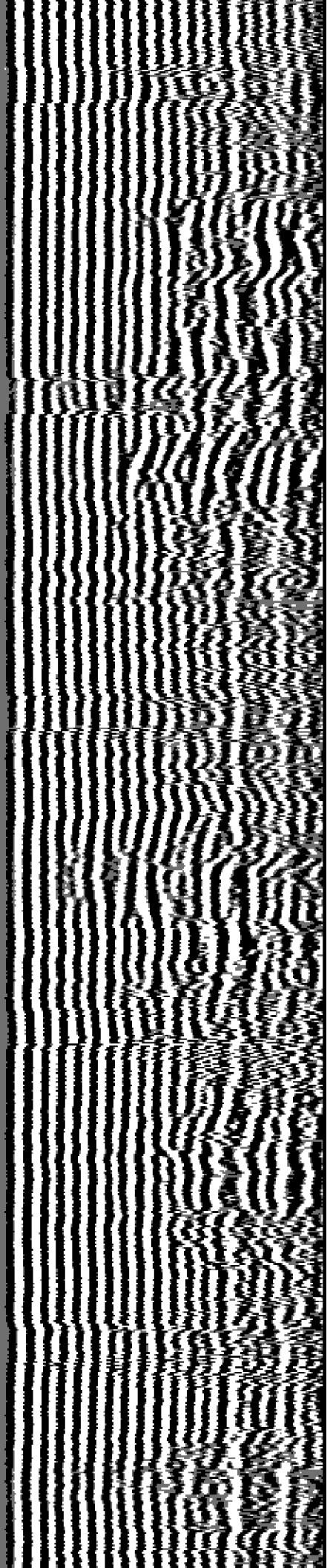


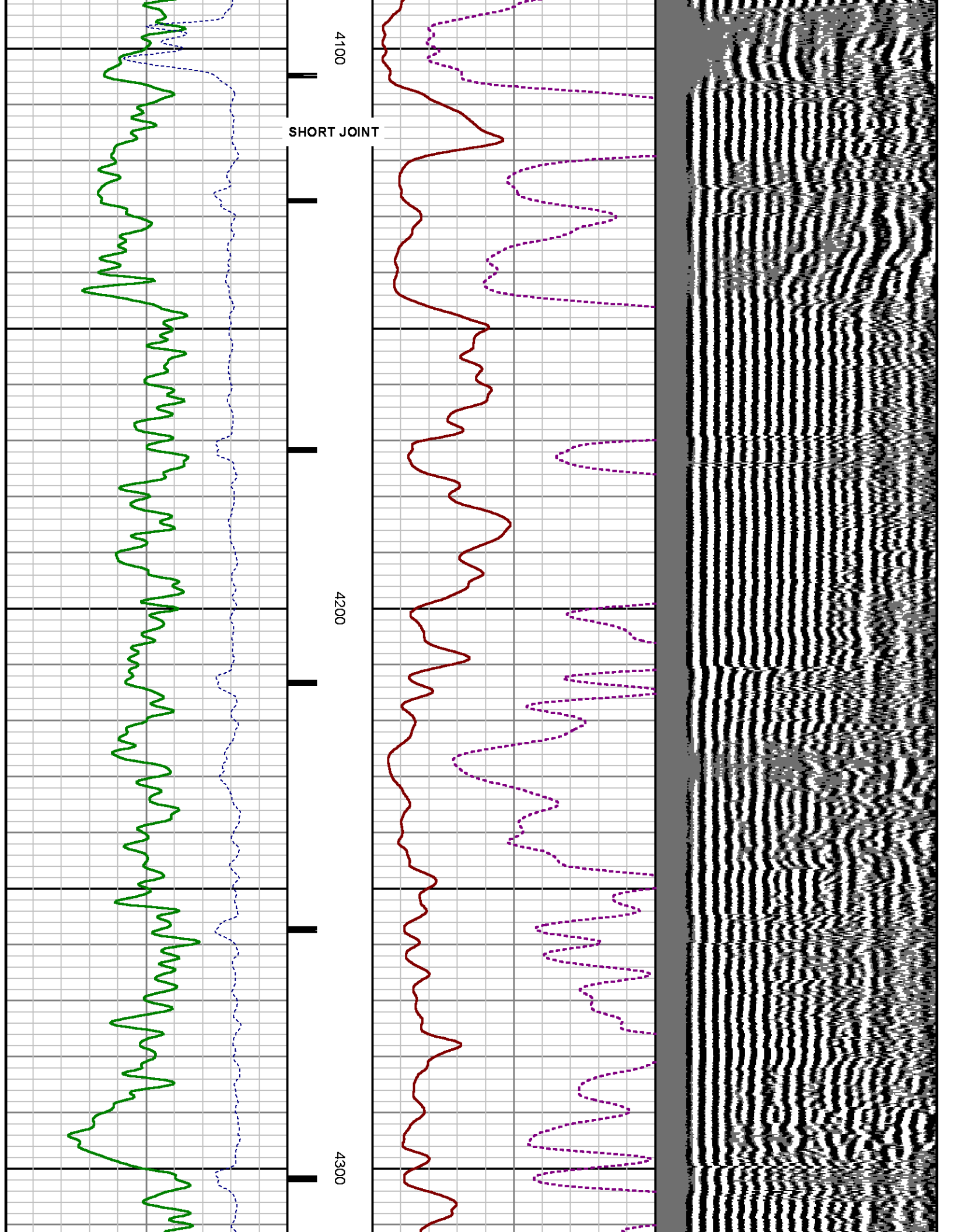


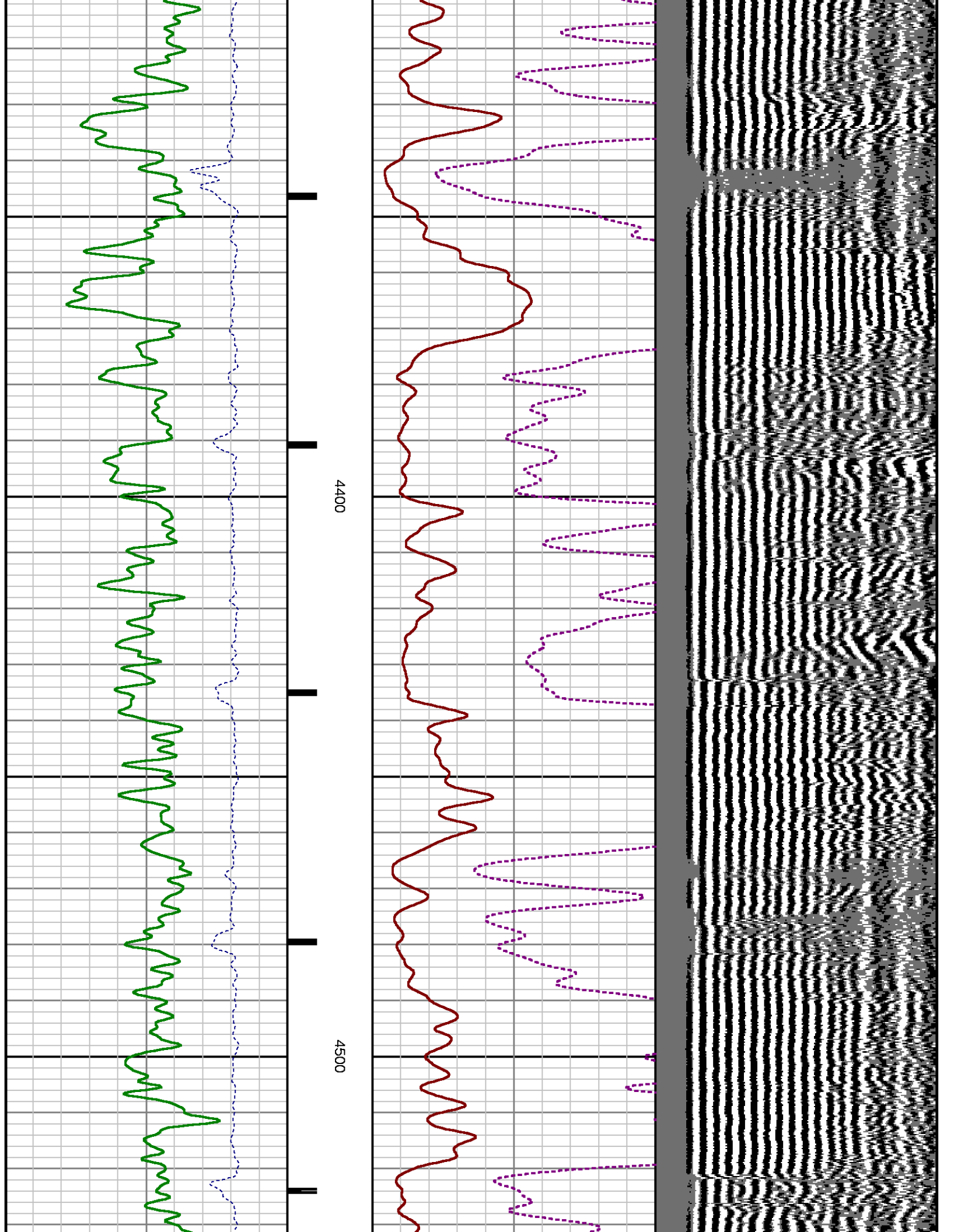
3700

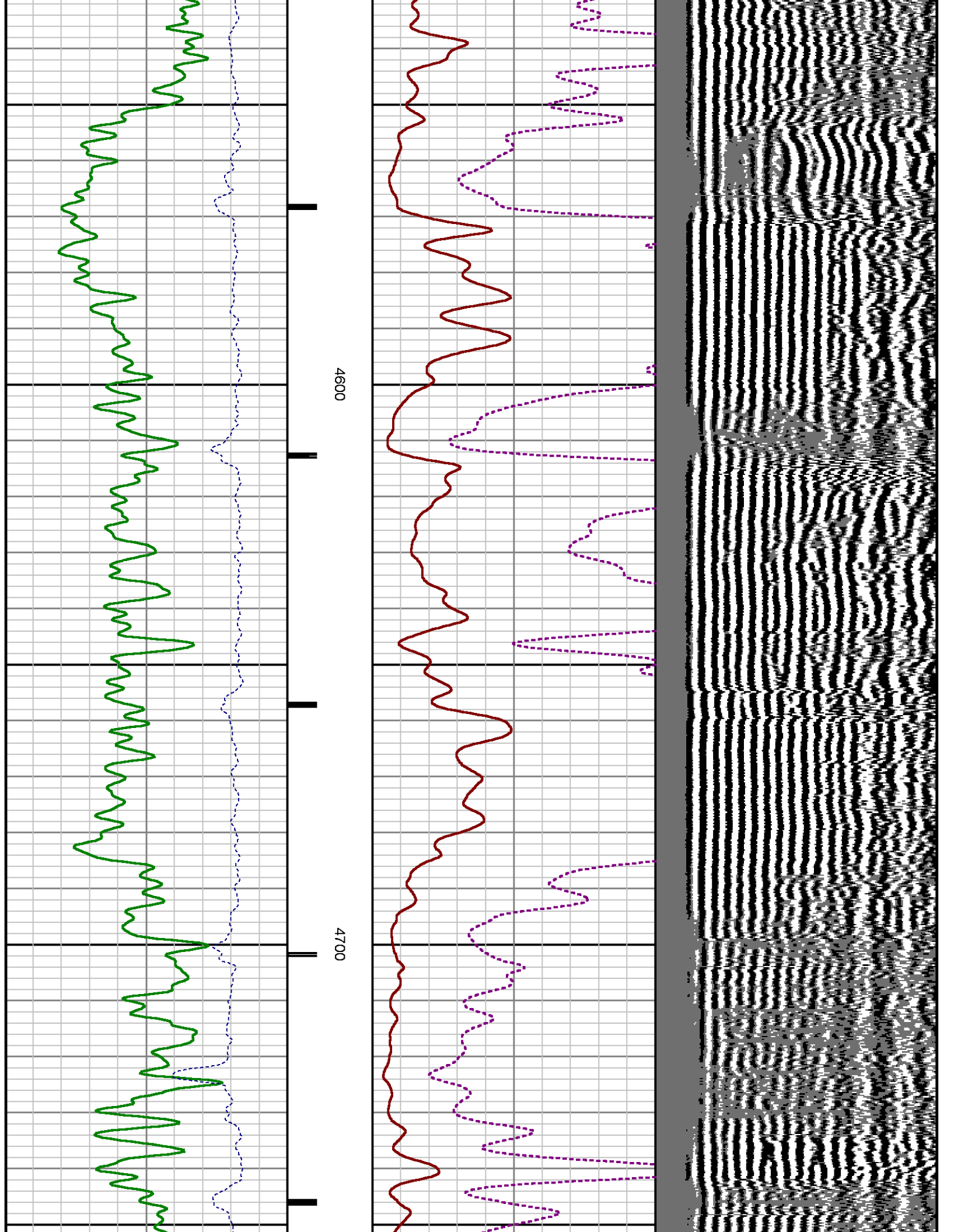
3800

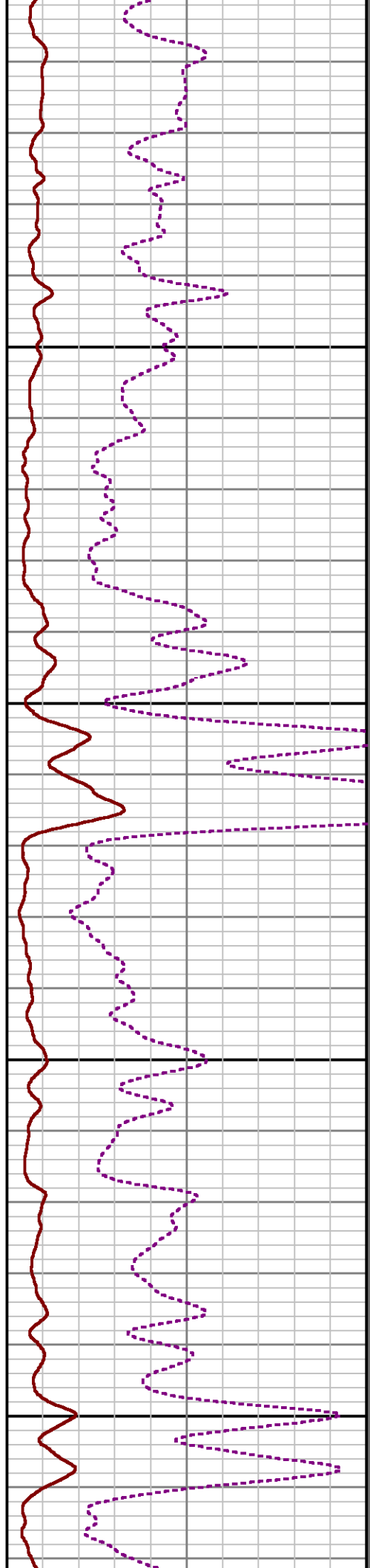
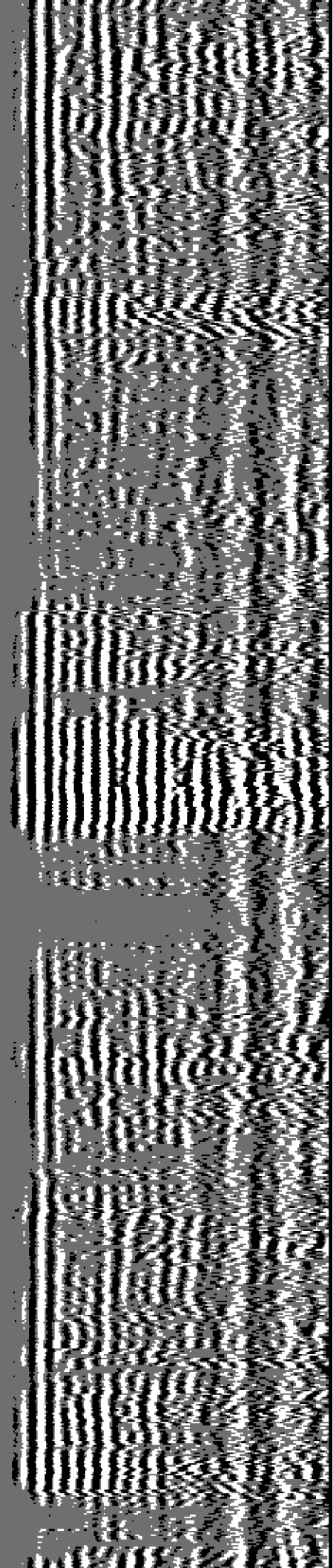






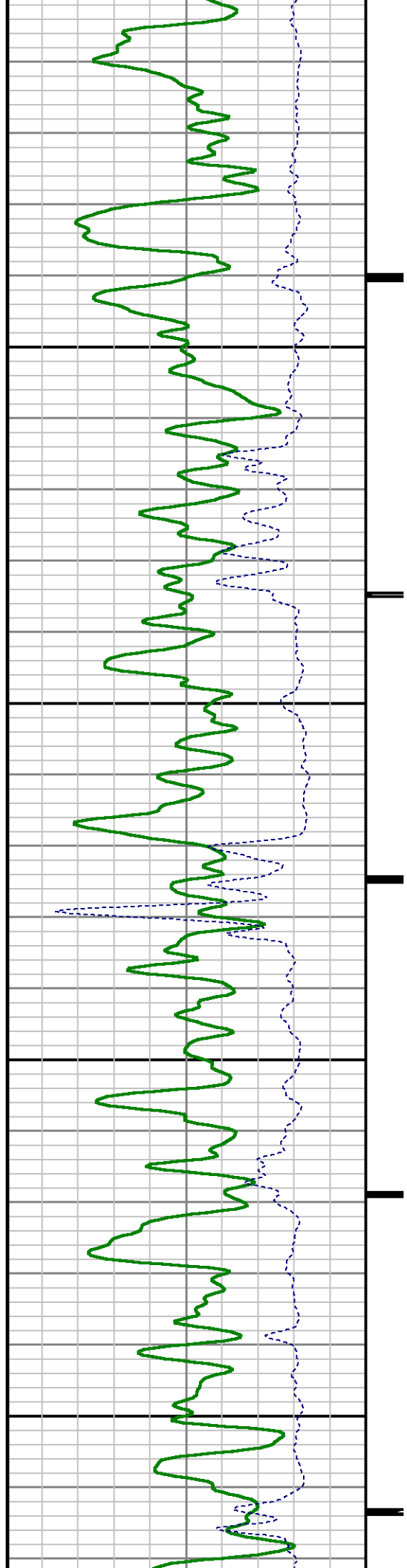


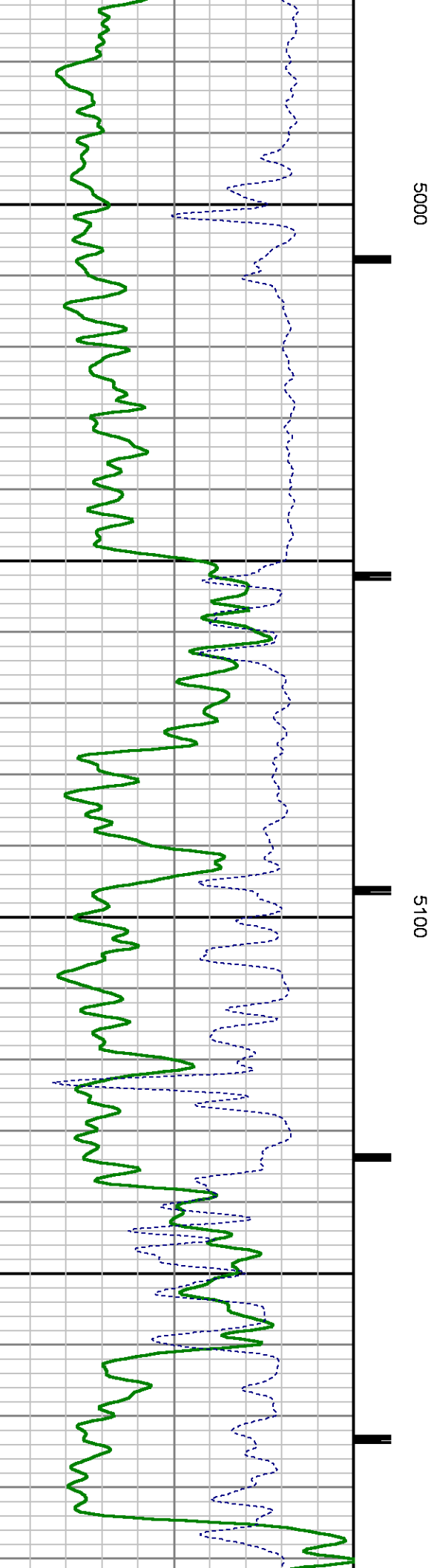
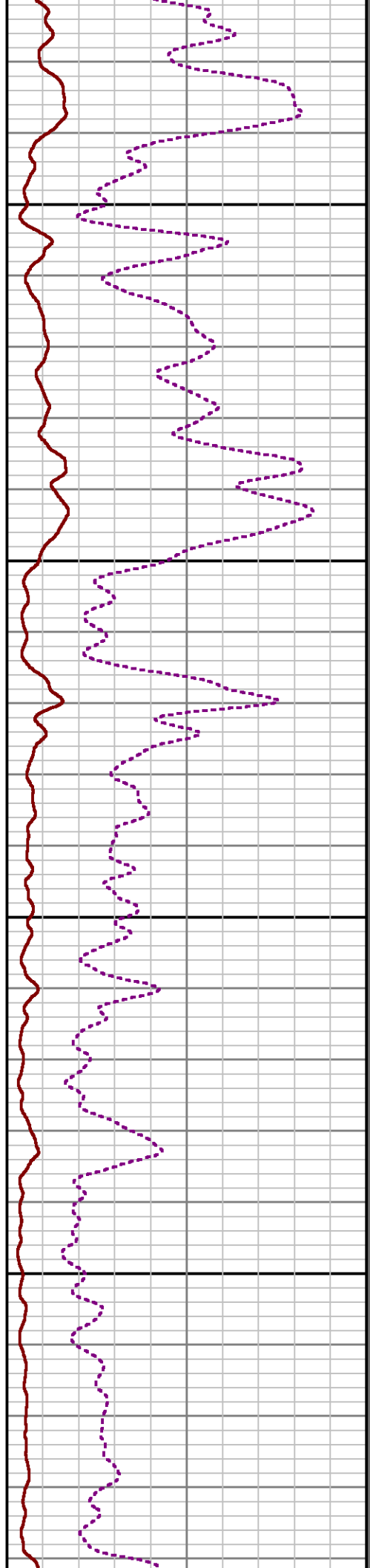
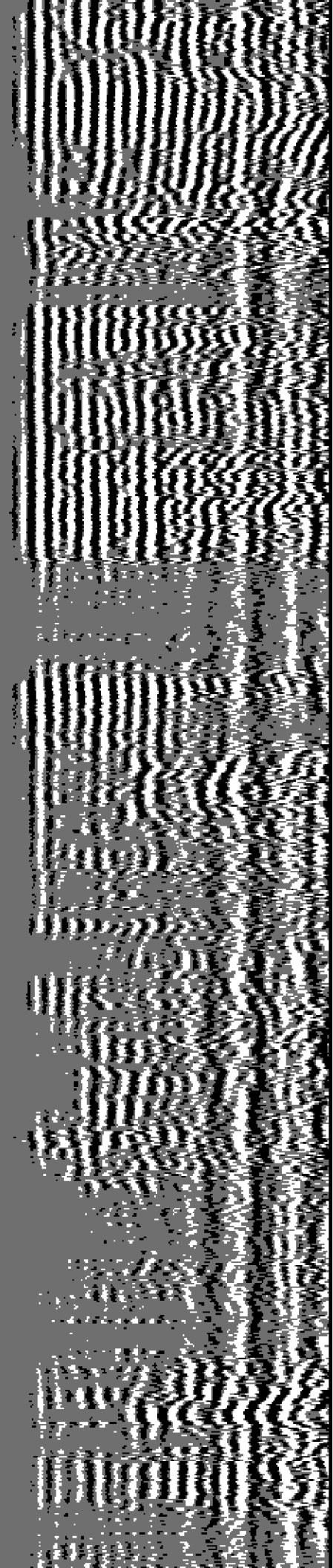


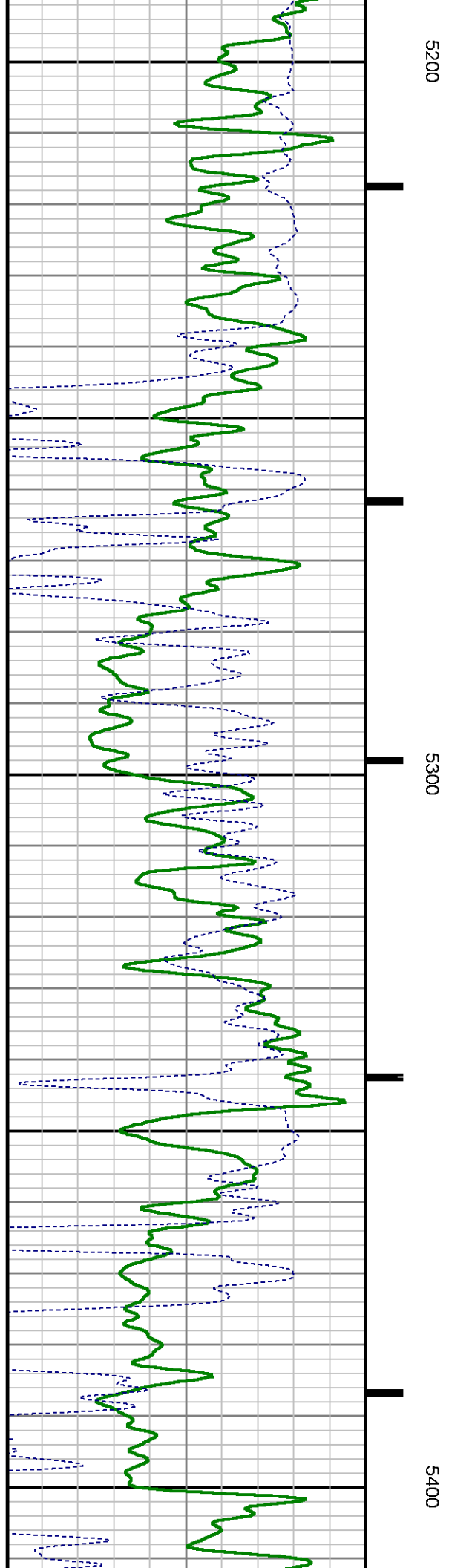
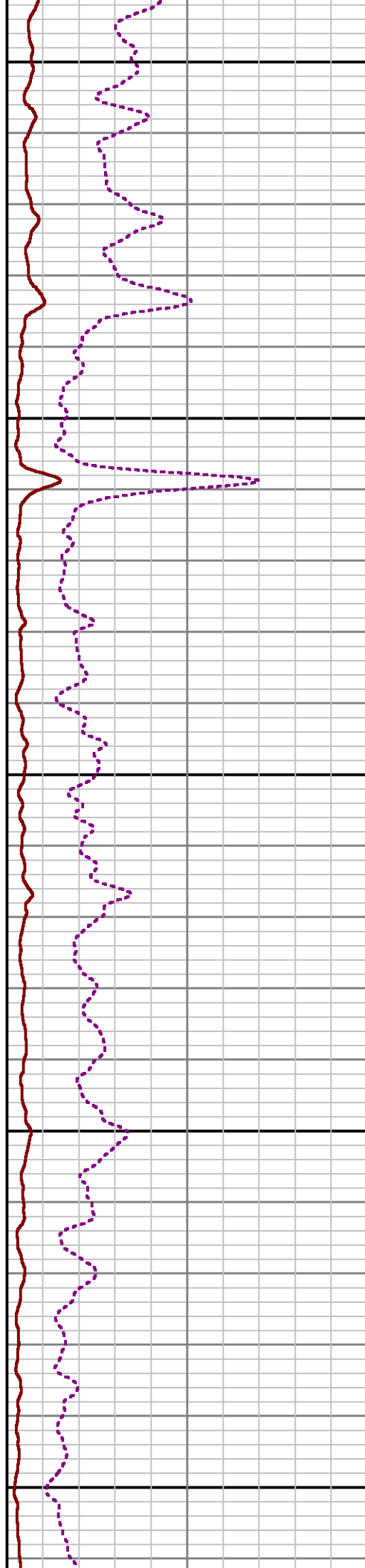
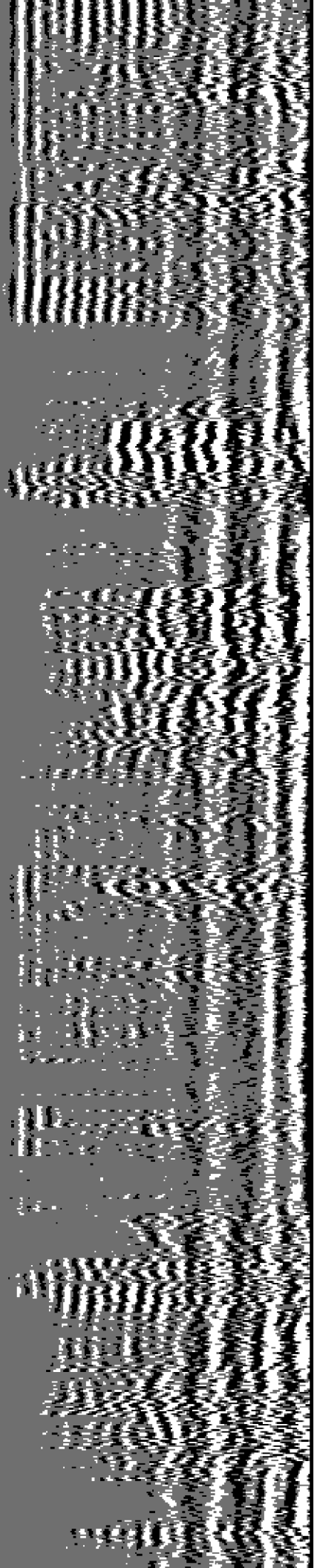


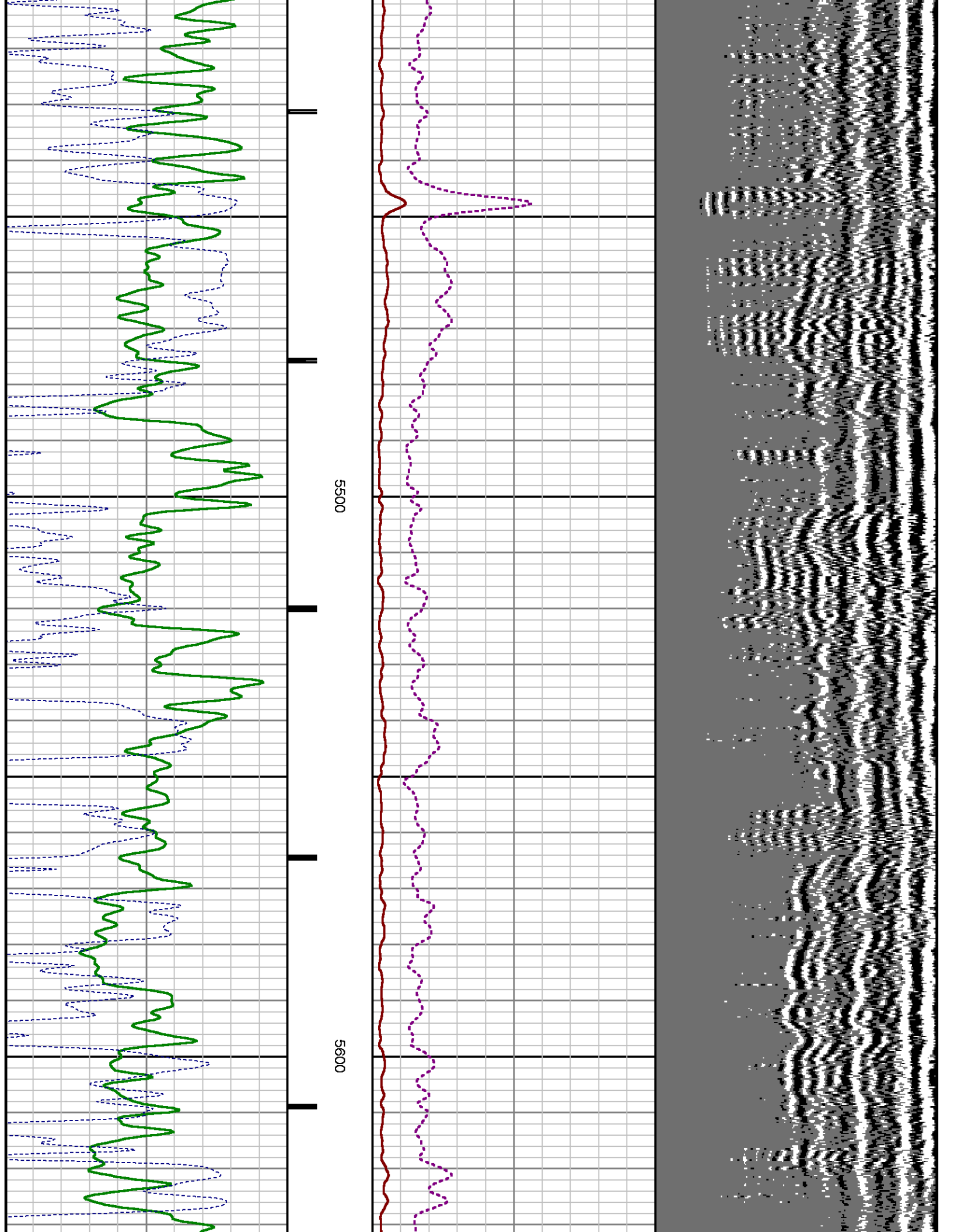
4800

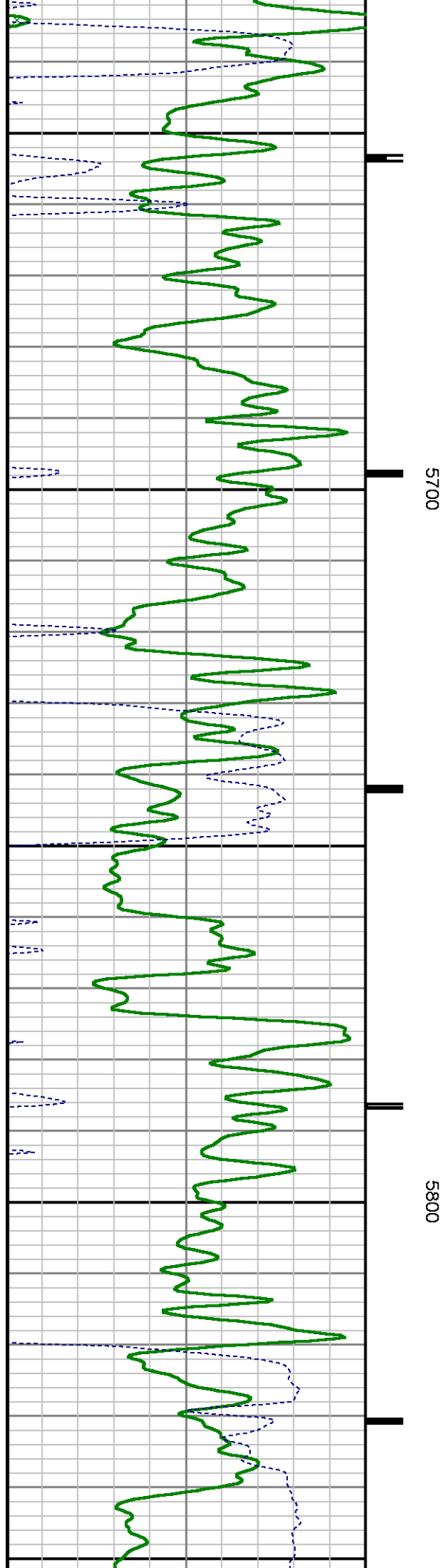
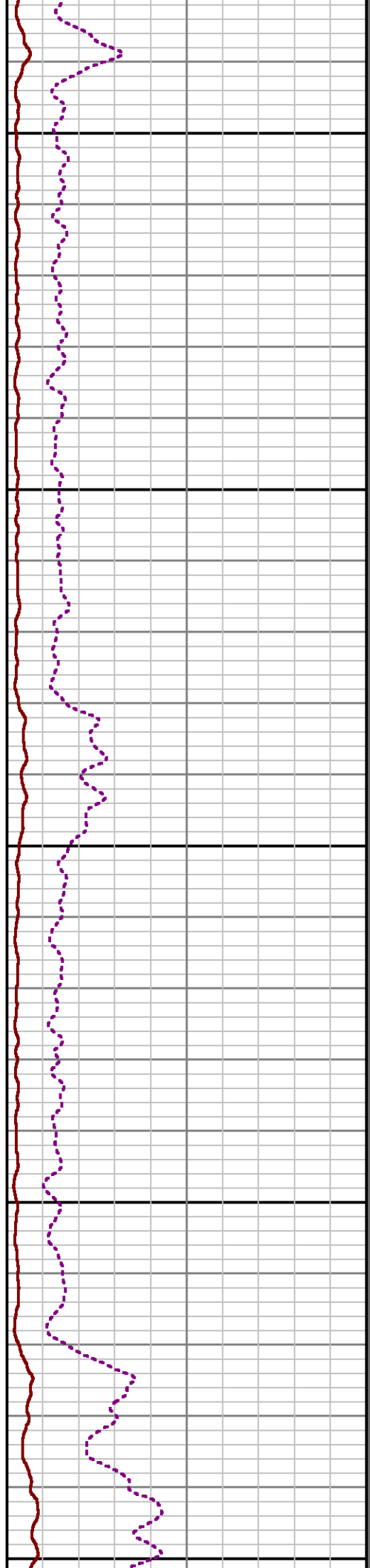
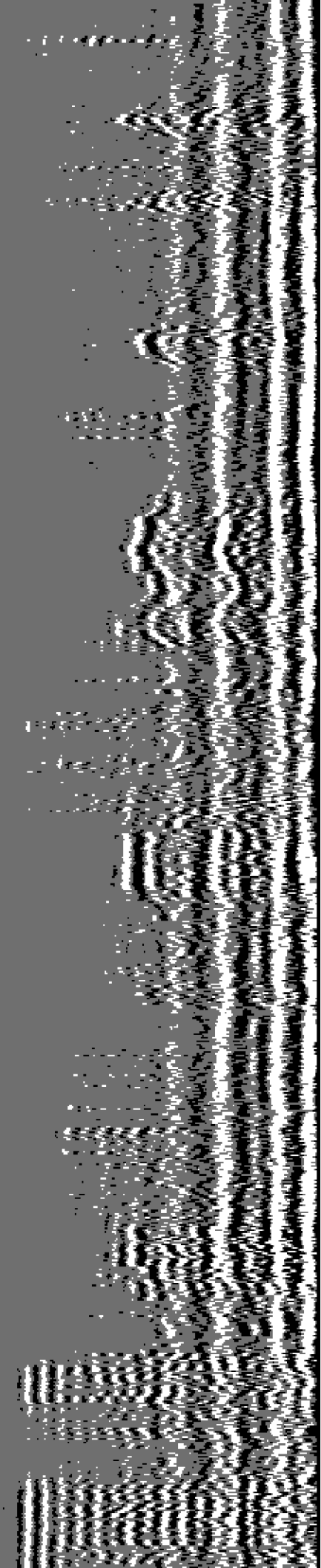
4900

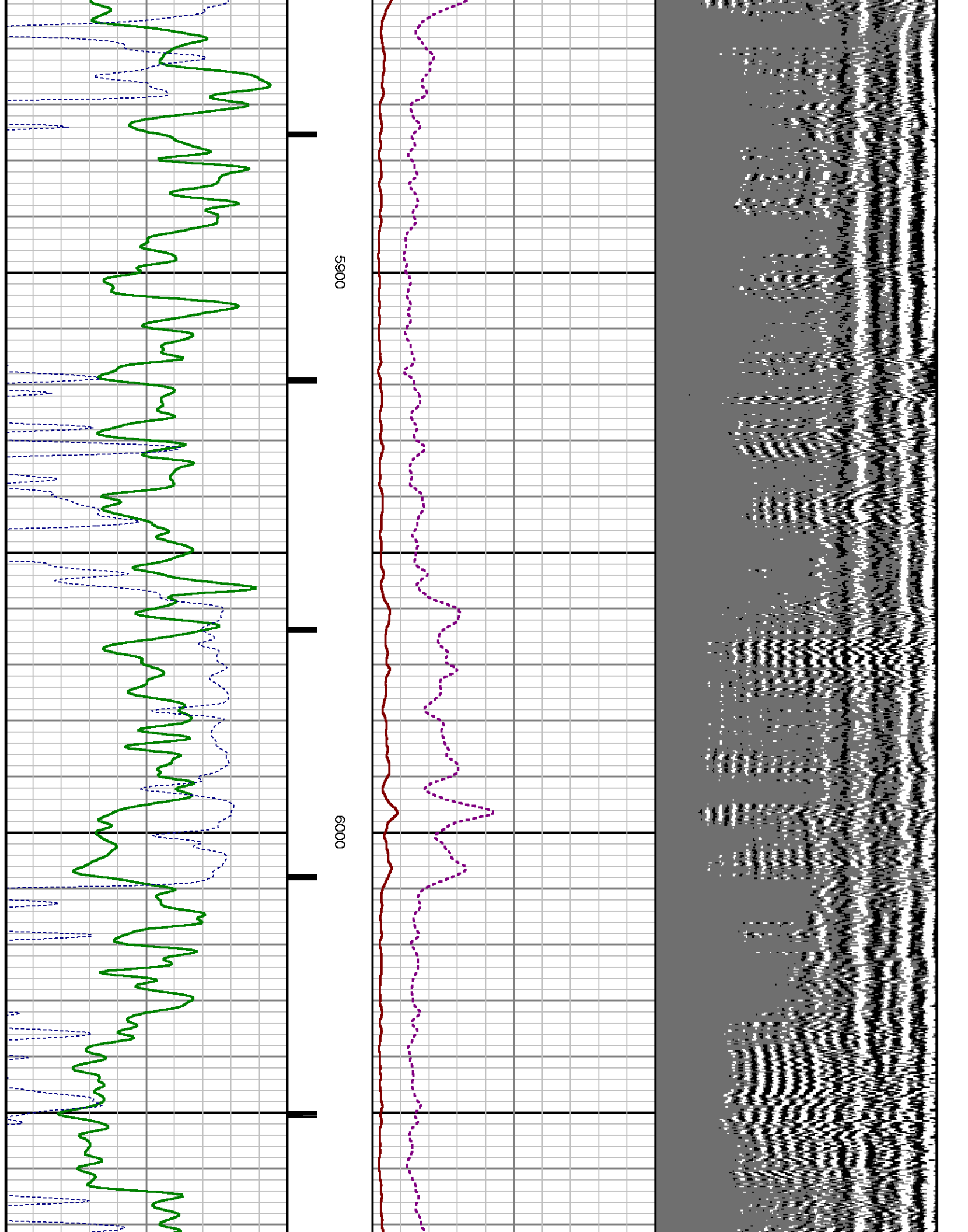


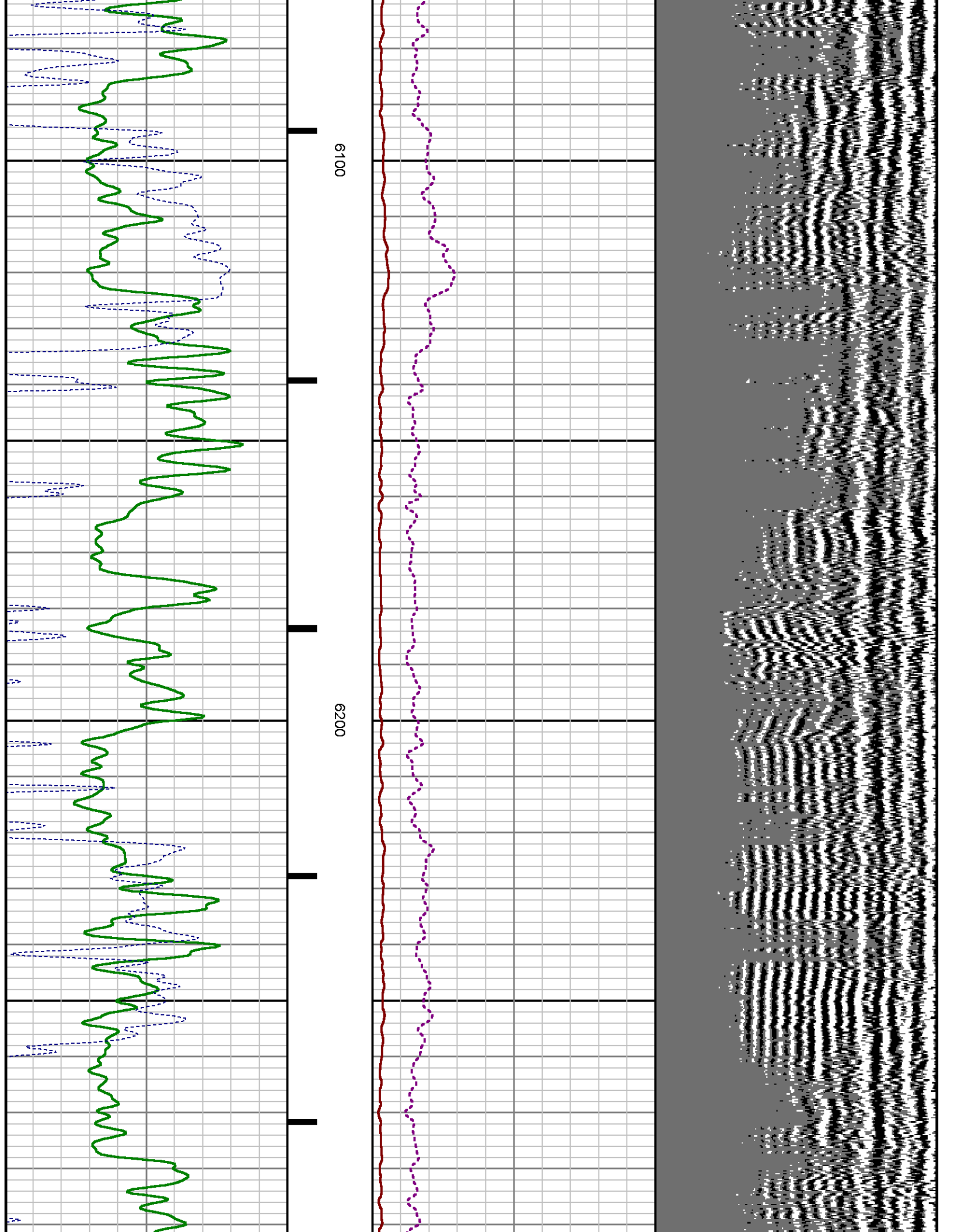


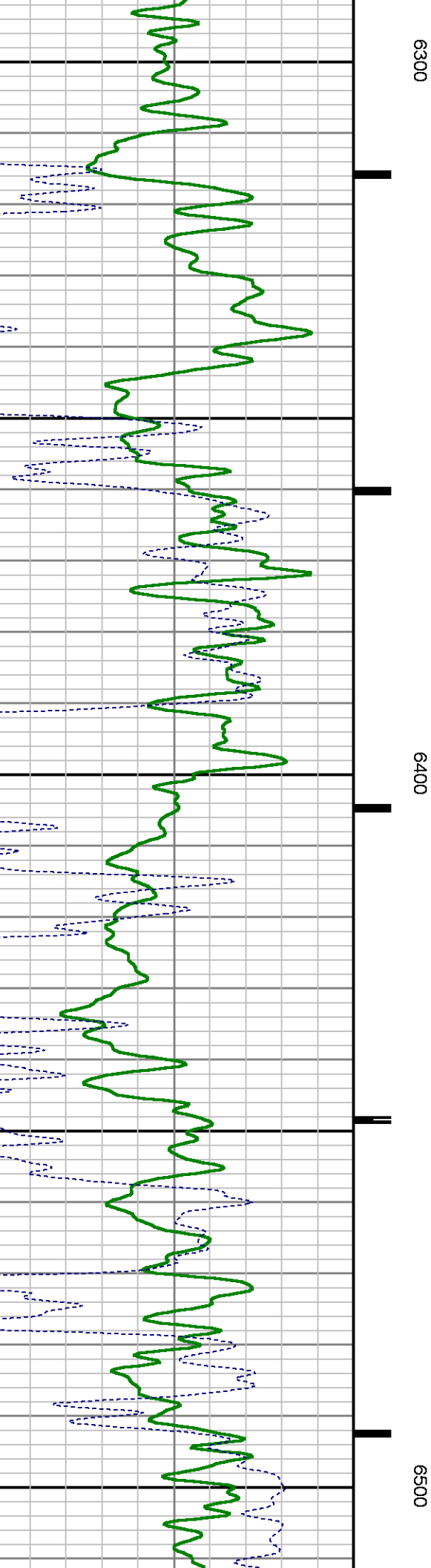
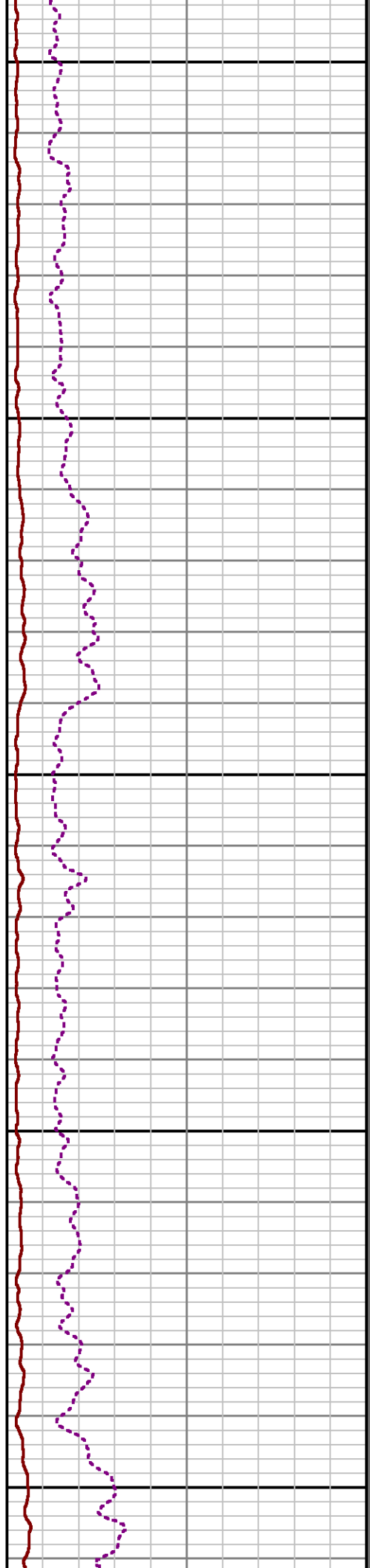
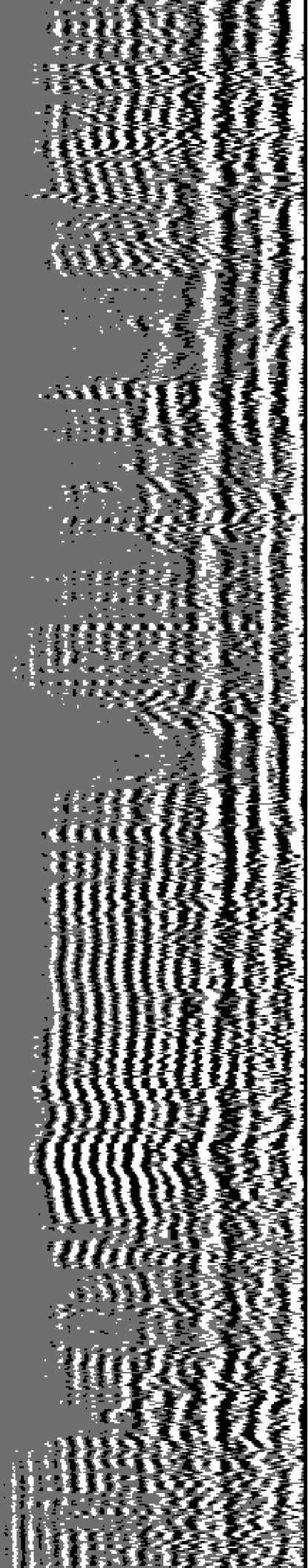


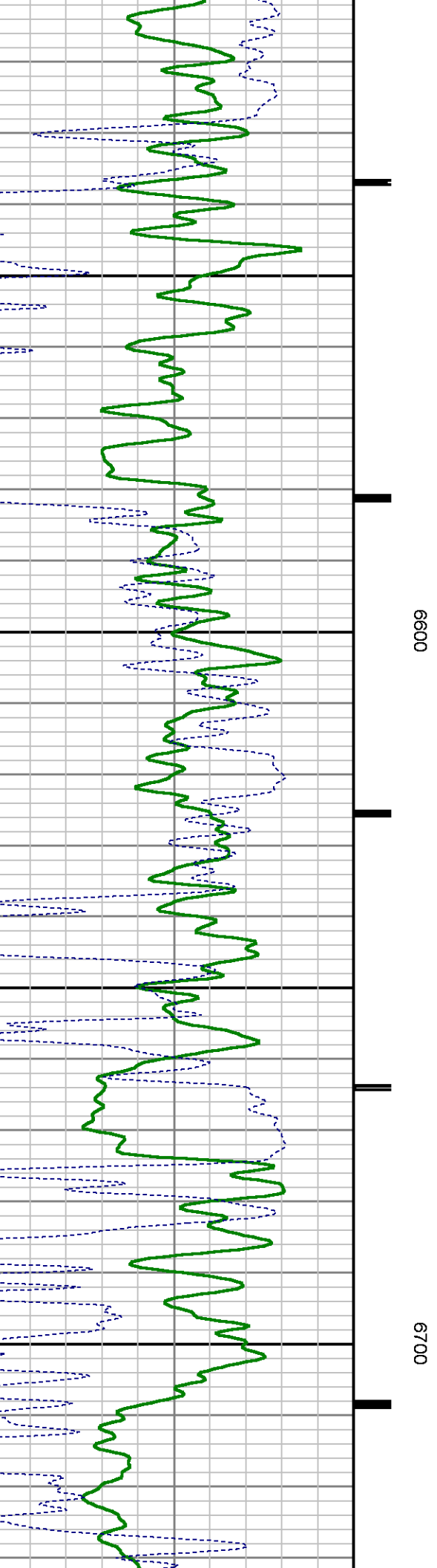
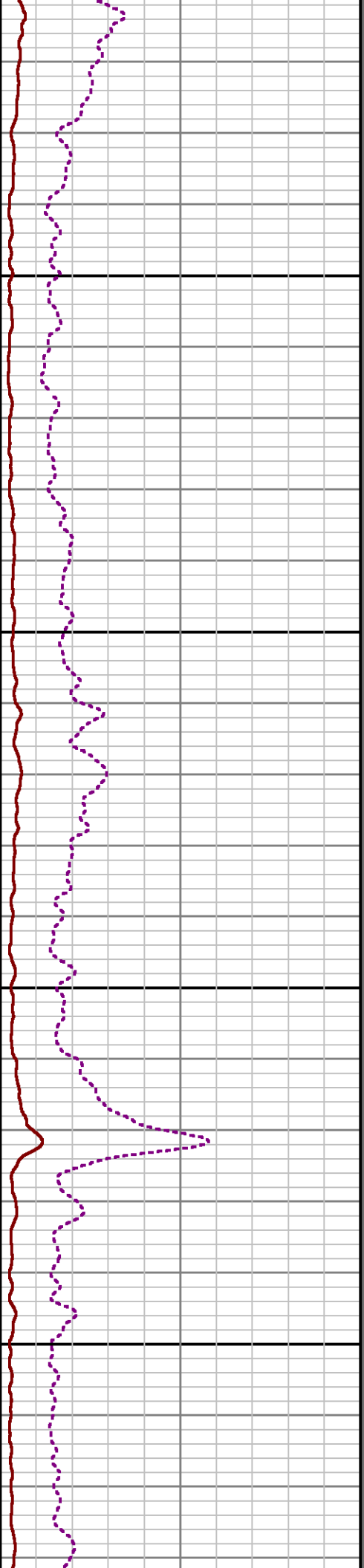
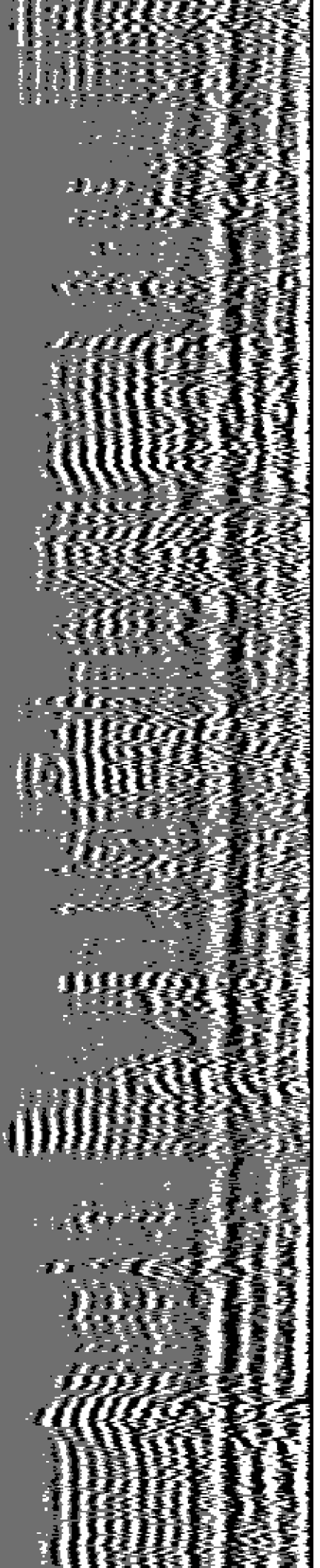


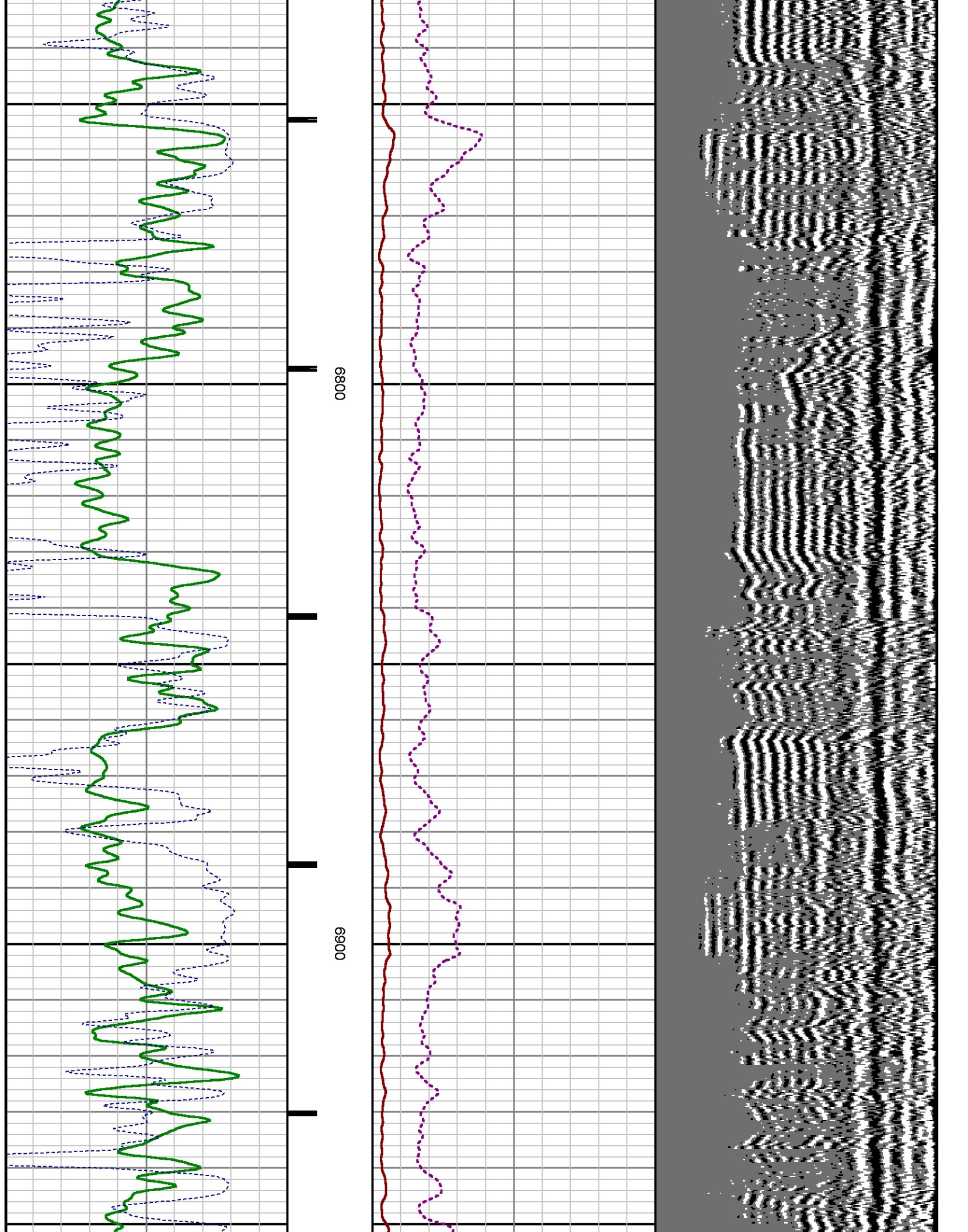


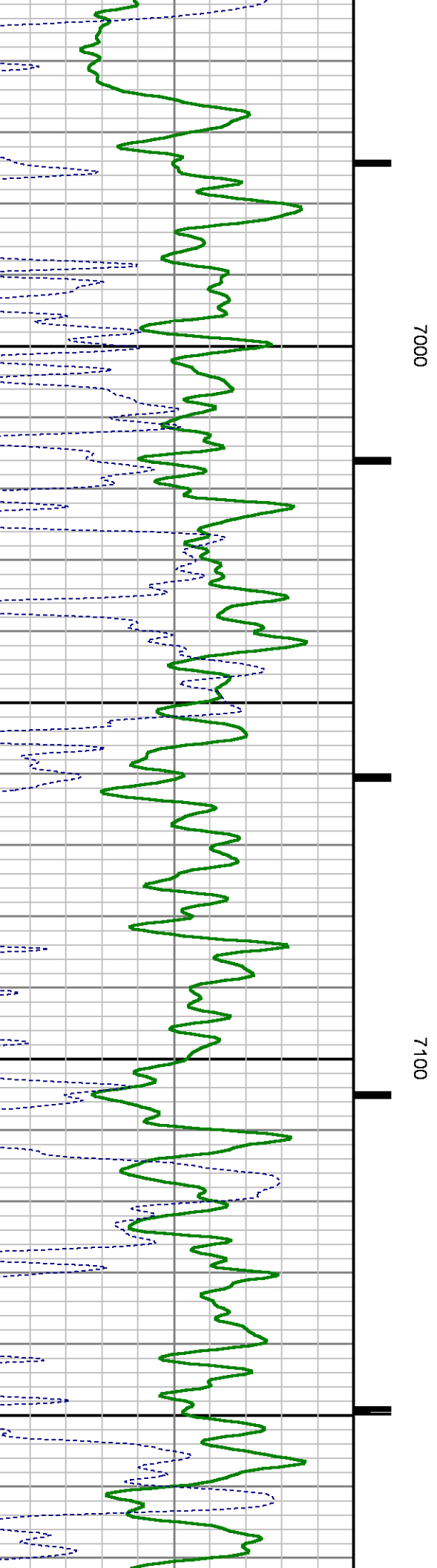
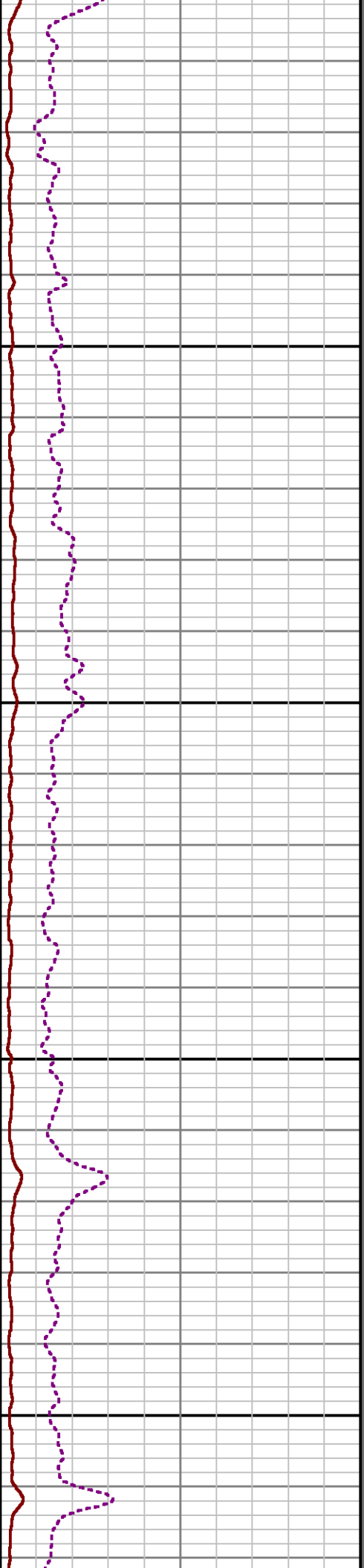
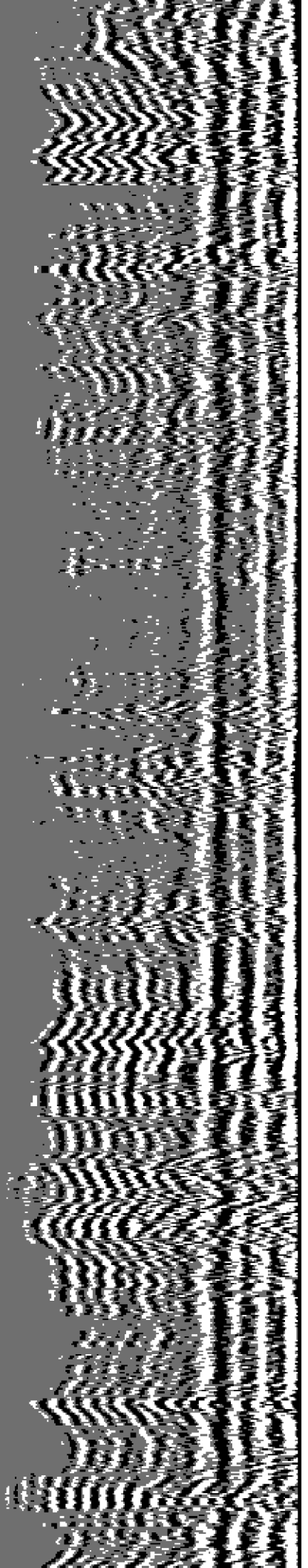


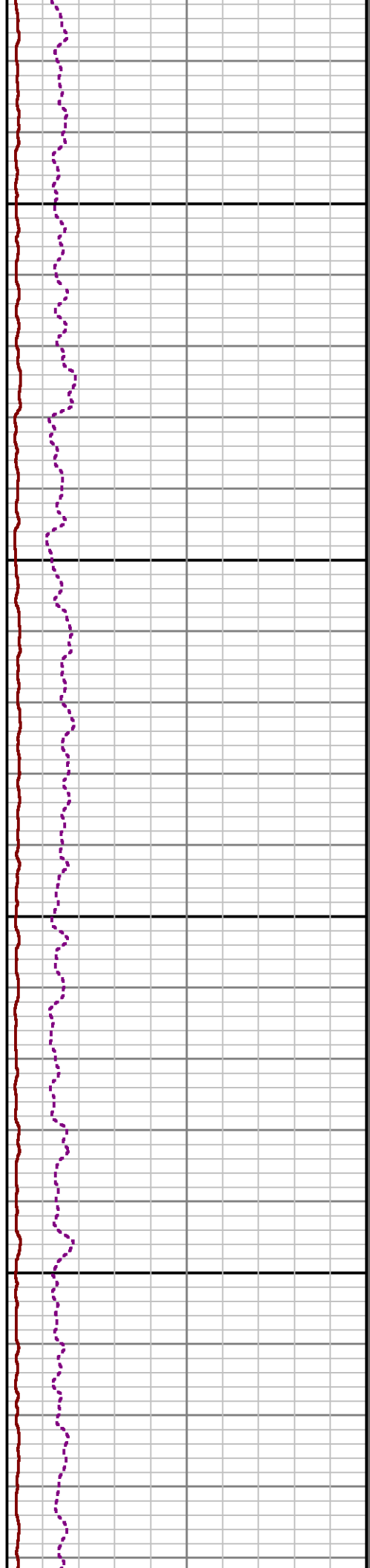
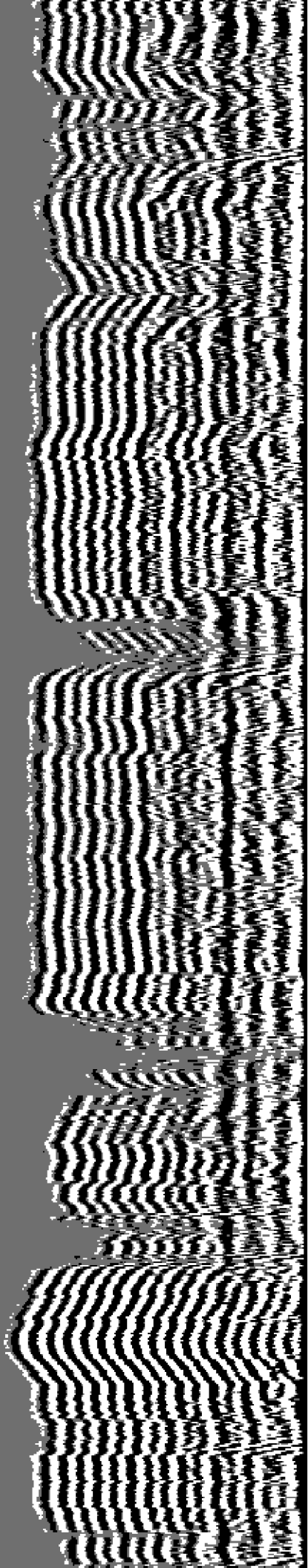






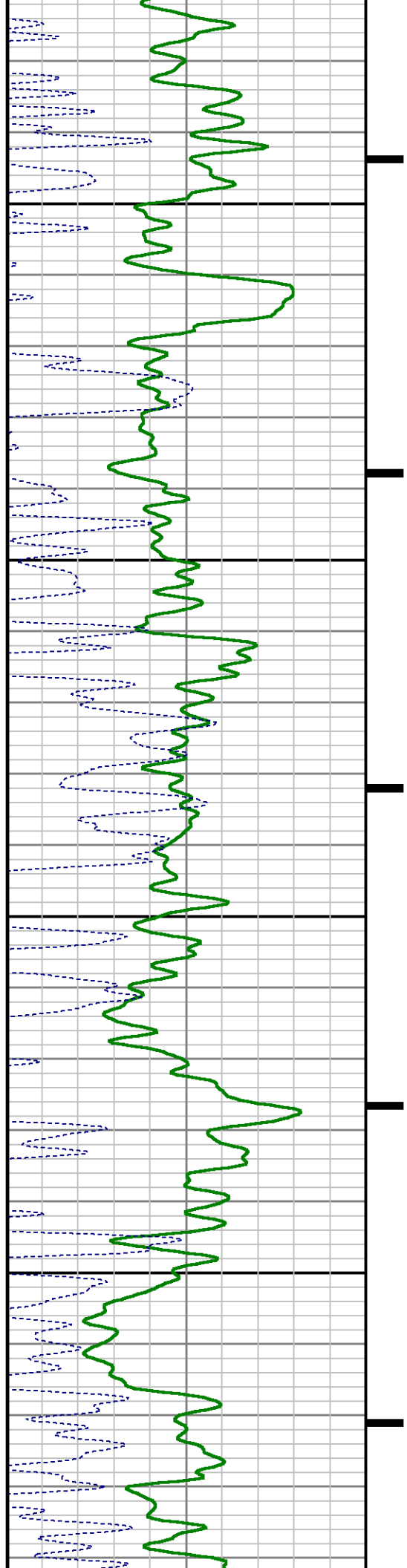


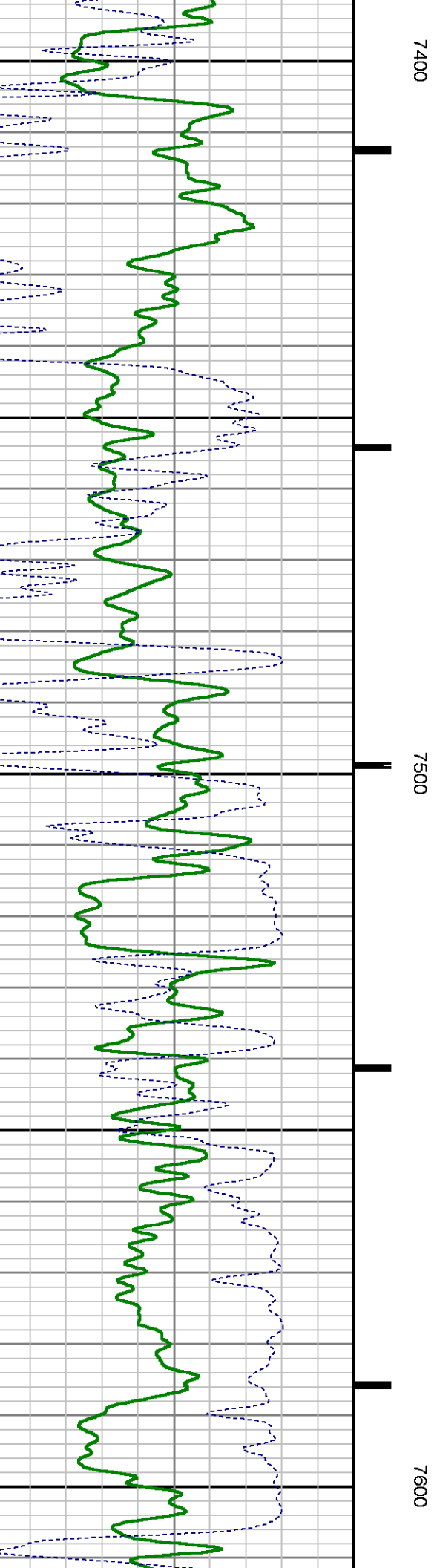
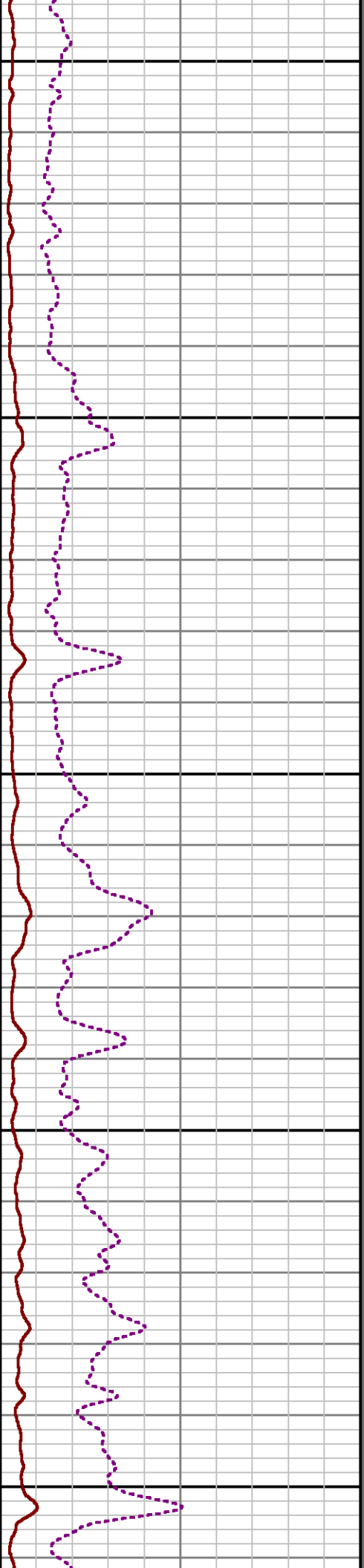
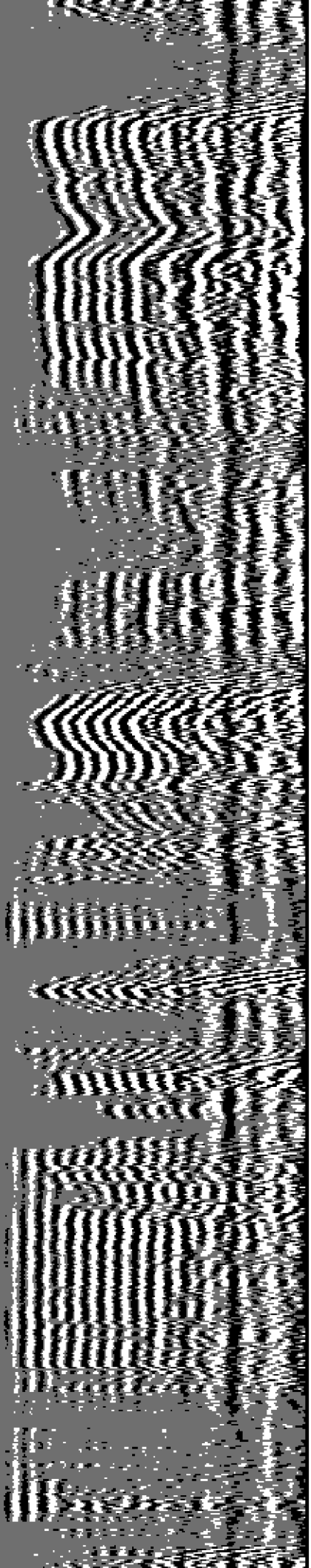


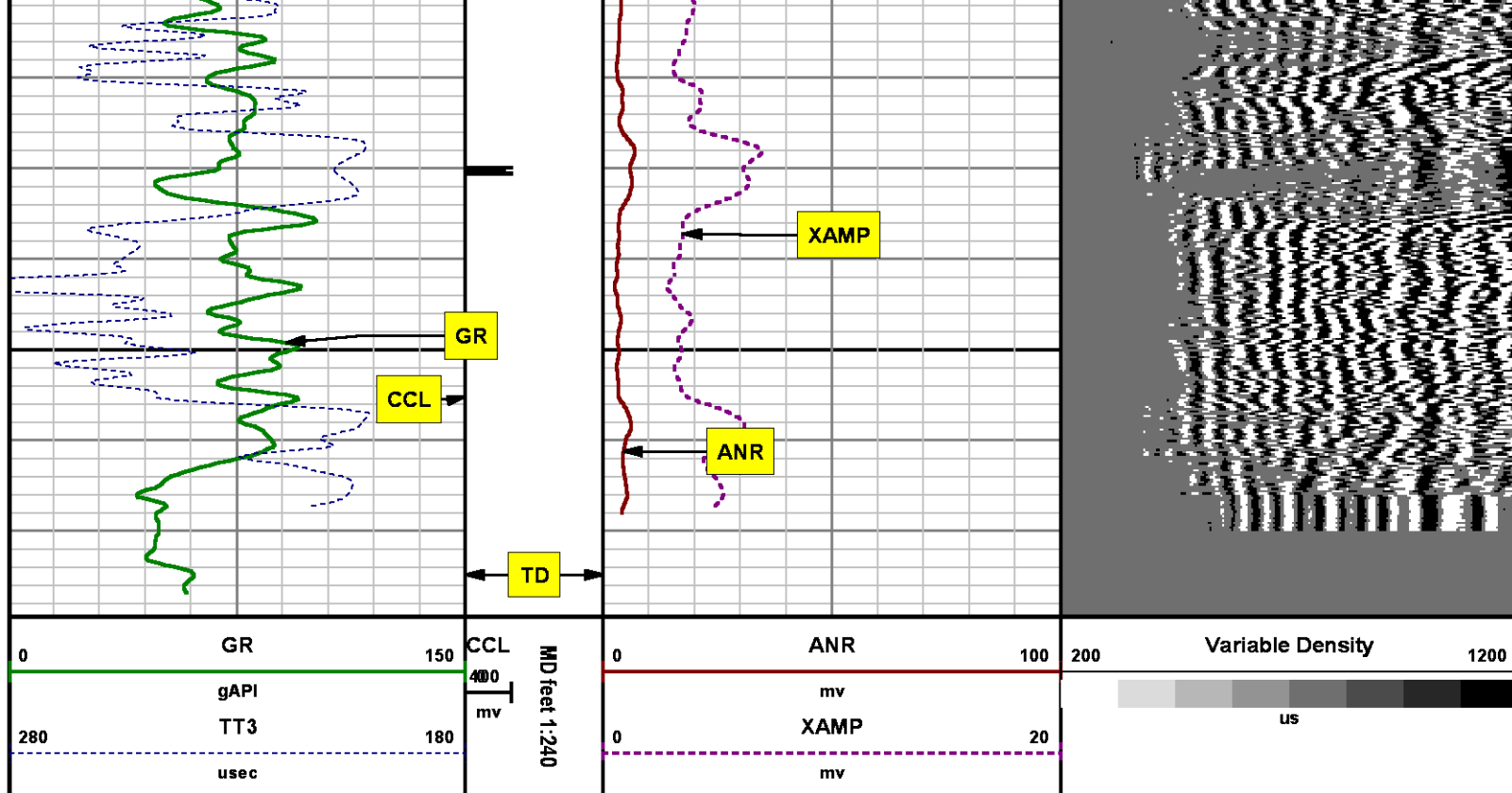


7200

7300







SECONDARY PRESENTATION O PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	23.187	7679.500
RAL	Amp Gate Start Near	195.000	usec	23.187	7679.500
RAL	Amp Gate Start Radial	195.000	usec	23.187	7679.500
RAL	Amp Gate Width Far	25.000	usec	23.187	7679.500
RAL	Amp Gate Width Near	25.000	usec	23.187	7679.500
RAL	Amp Gate Width Radial	25.000	usec	23.187	7679.500
RAL	casing od	4.500	inches	23.187	7679.500
RAL	casing wt	11.600	lbm/ft	23.187	7679.500
RAL	FB Start Far	291.900	usec	23.187	7679.500
RAL	FB Start Near	180.000	usec	23.187	7679.500
RAL	FB Start Radial	180.000	usec	23.187	7679.500
RAL	FB Thresh Far	10.000	mv	23.187	7679.500
RAL	FB Thresh Near	4.000	mv	23.187	7679.500
RAL	FB Thresh Radial	4.000	mv	23.187	7679.500

RAL

Fluid Travel Time

200.000

usec/ft

23.187

7679.500

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

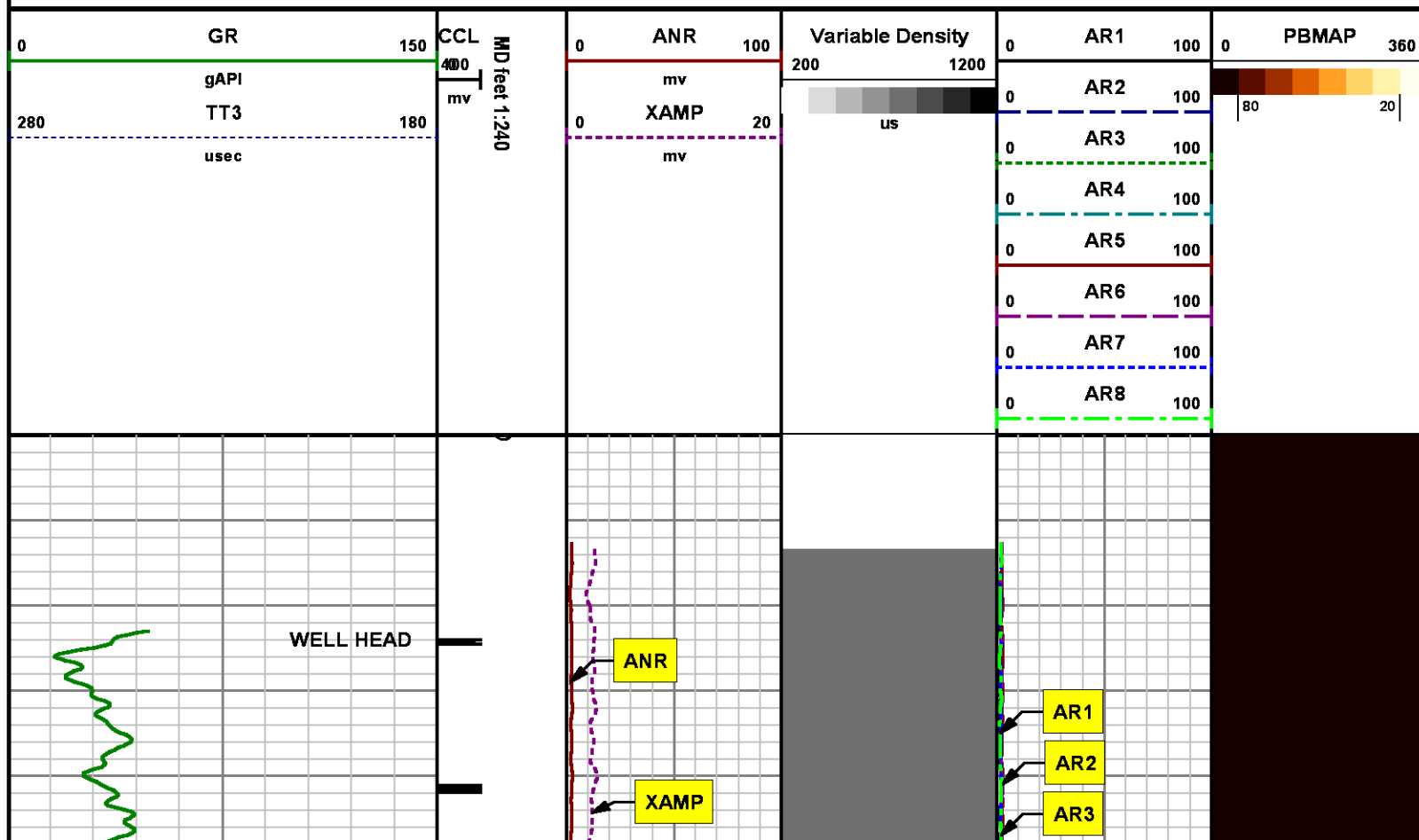
Well : C&C ENERGY GM 44-12

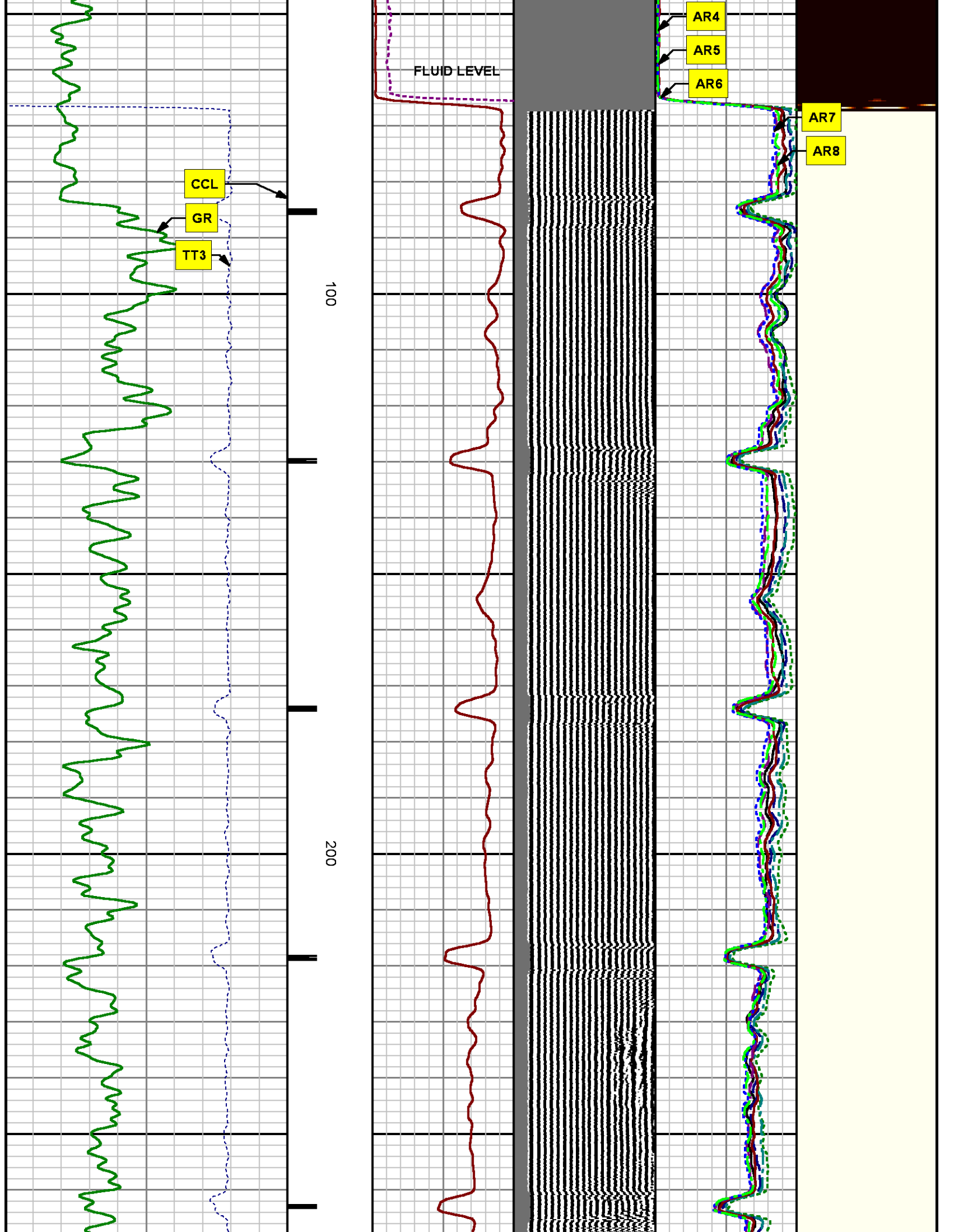
File Name : D:\WELLDATA\WPX\GM 44-12\44ra\MAIN .XTF

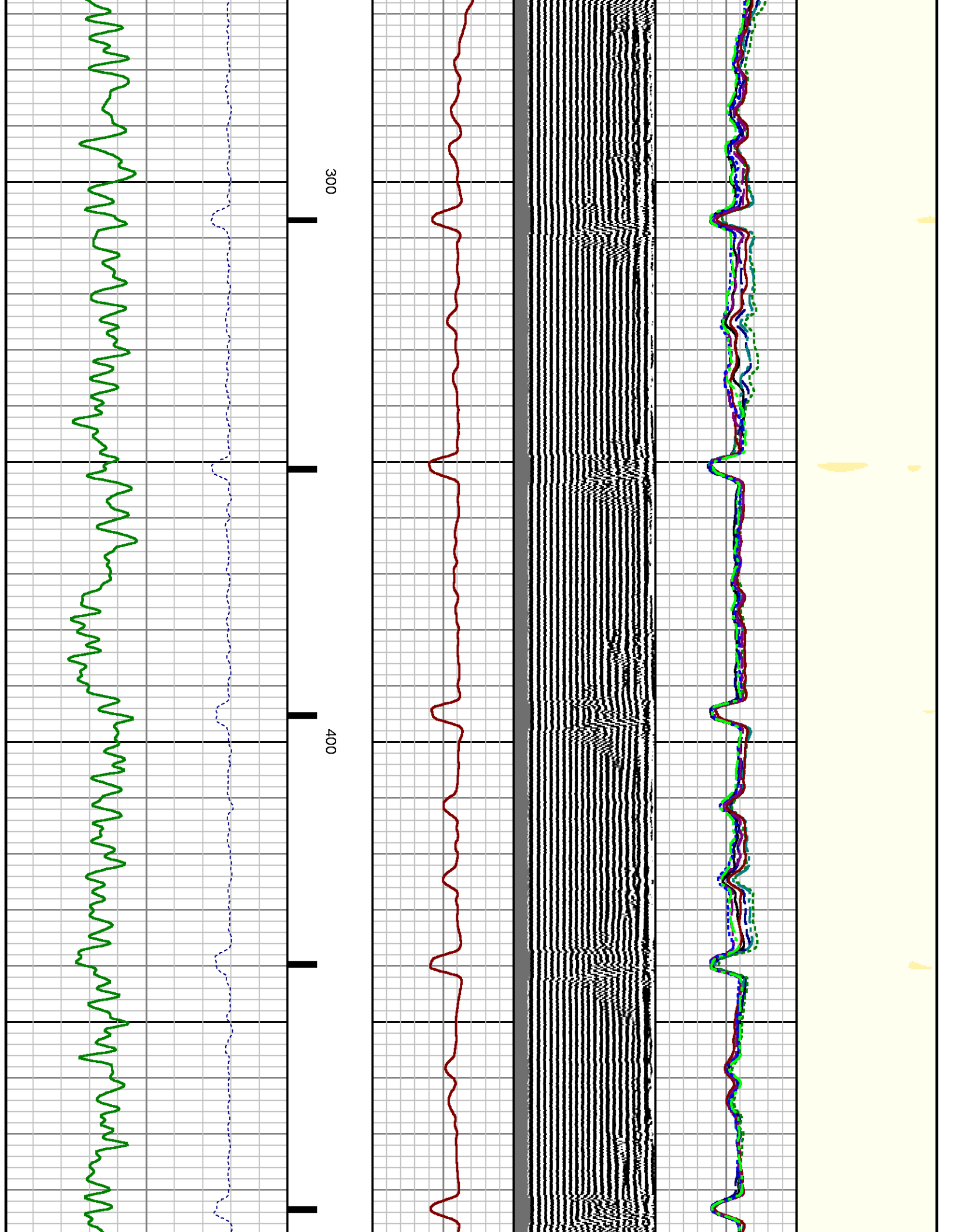
Mode : PlotMgr 5.4.504

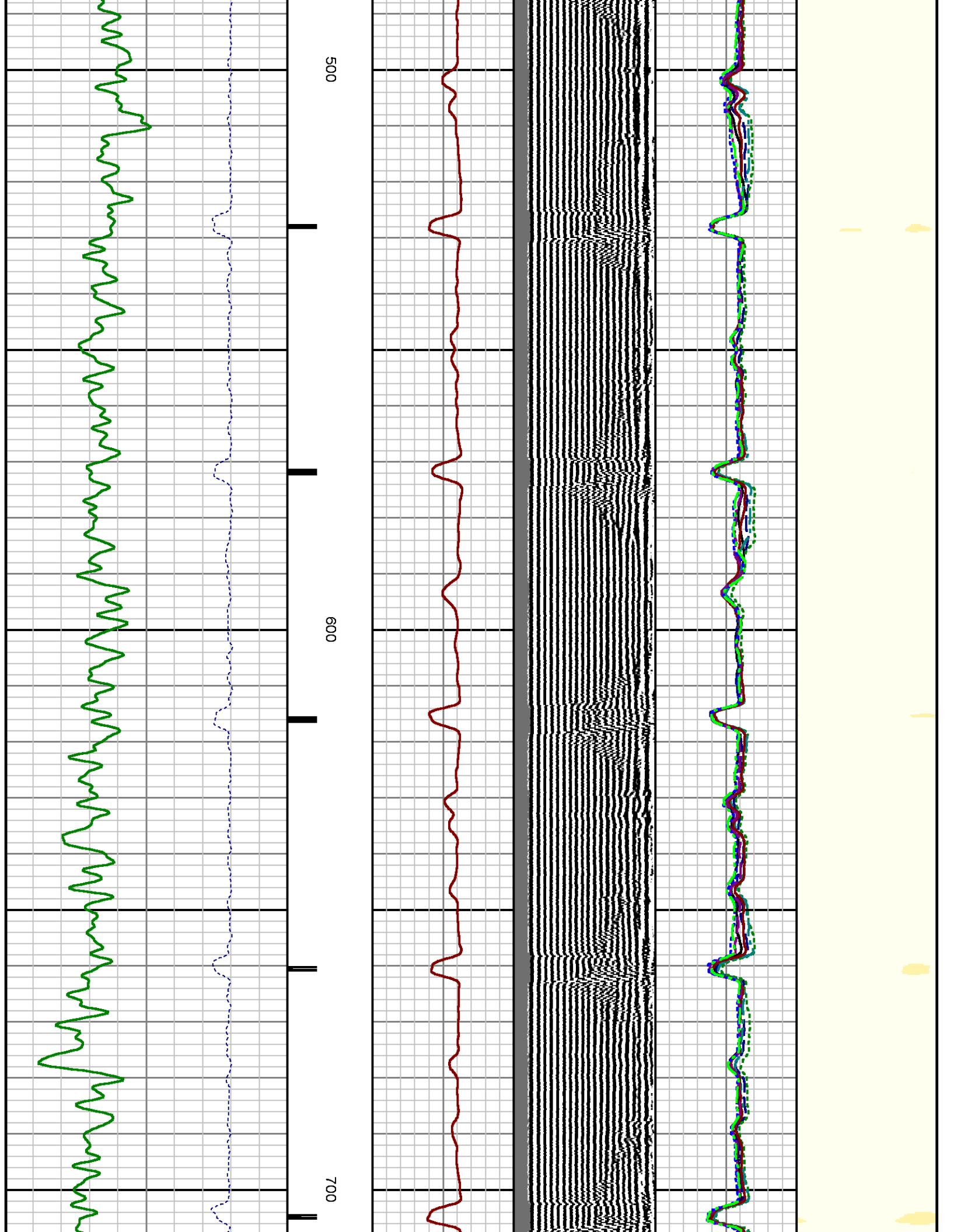
Interval : 0.00 - 7679.50 feet UP

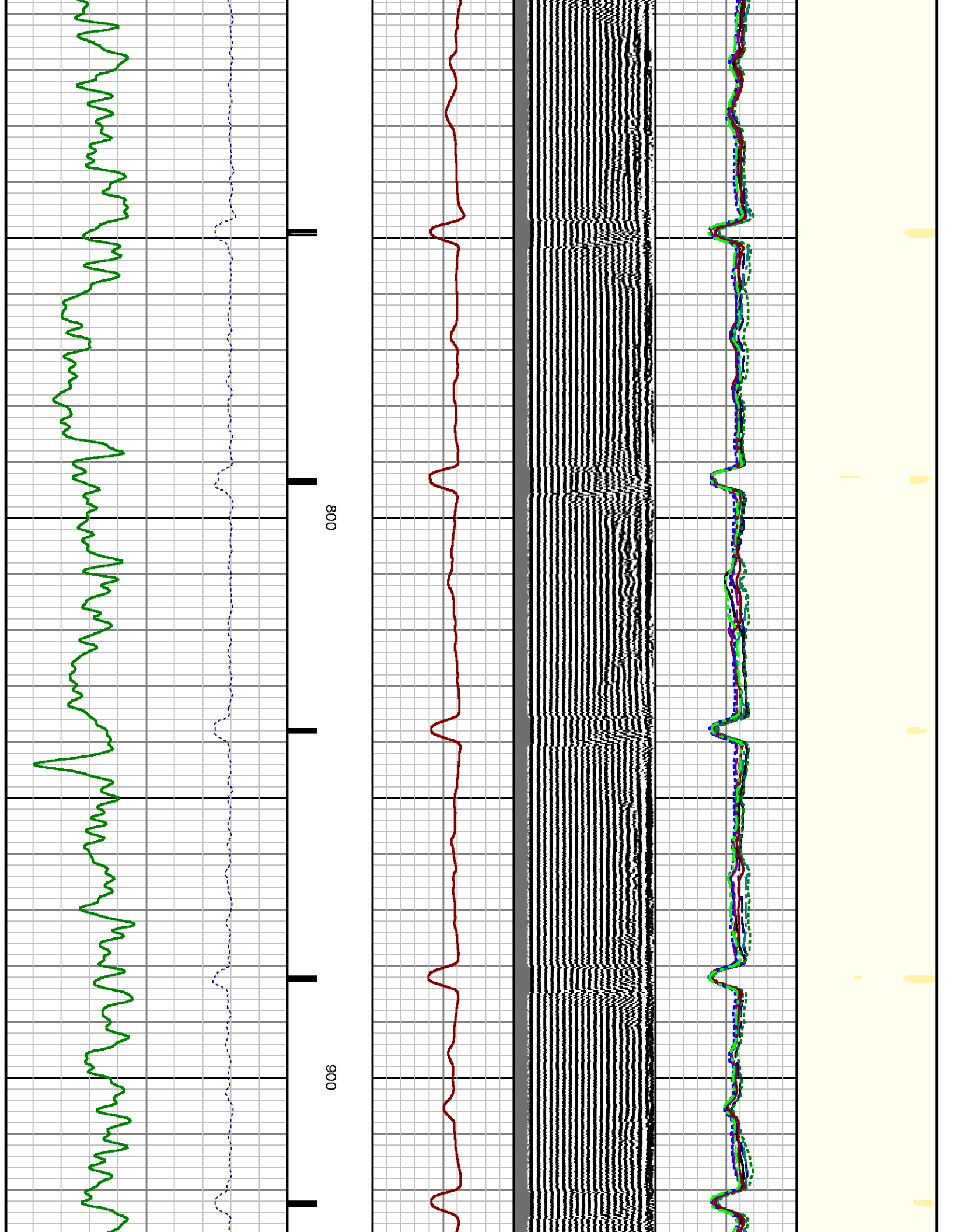
Created : 9/6/2014 7:50:31 AM

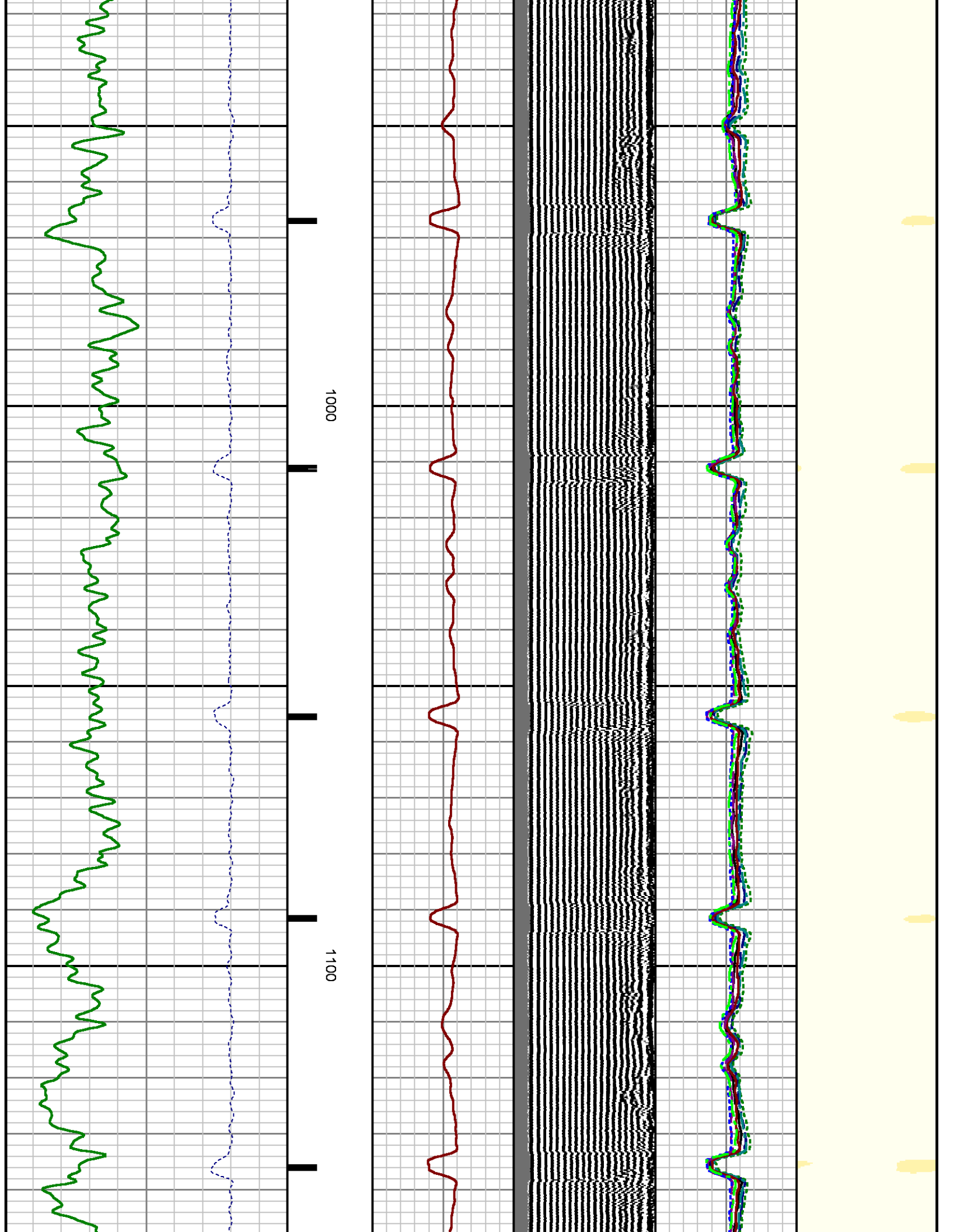


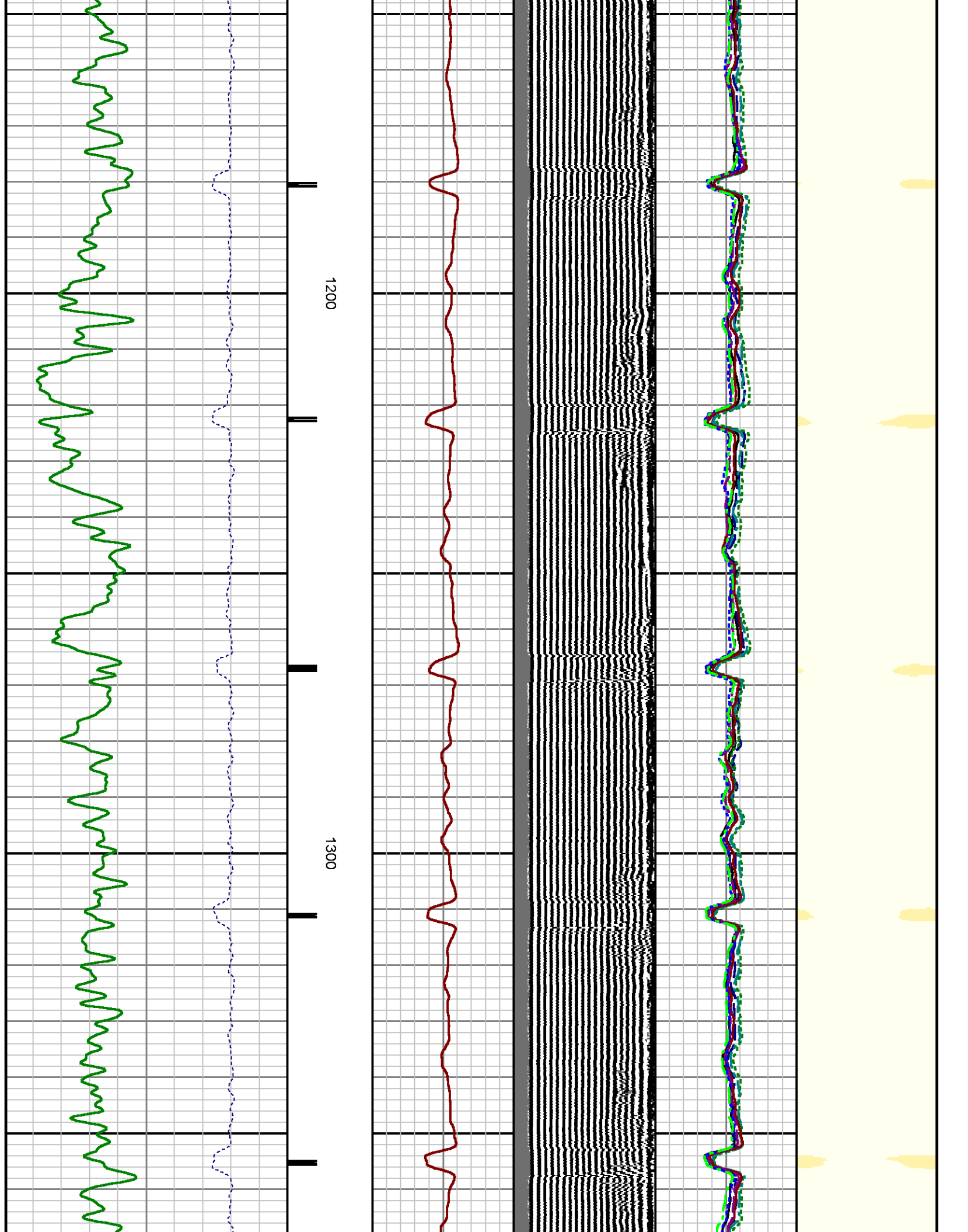


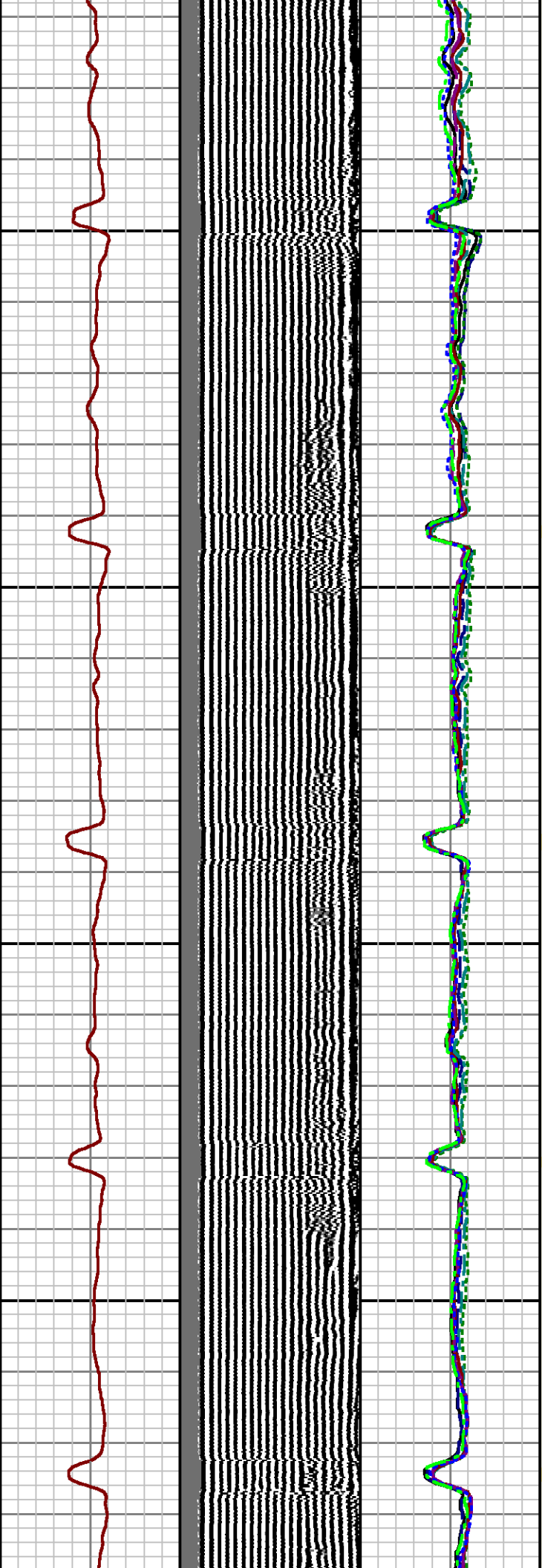
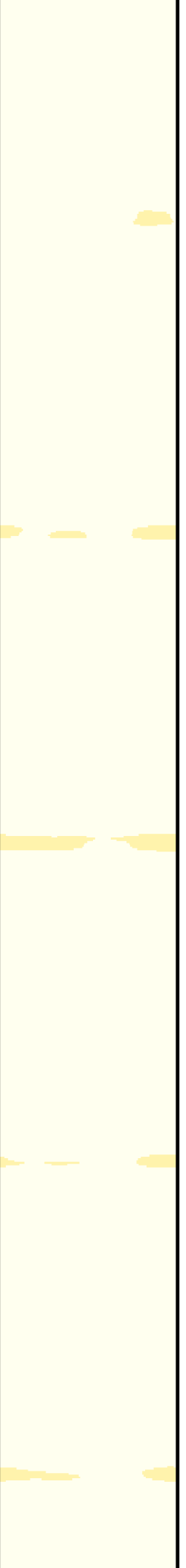


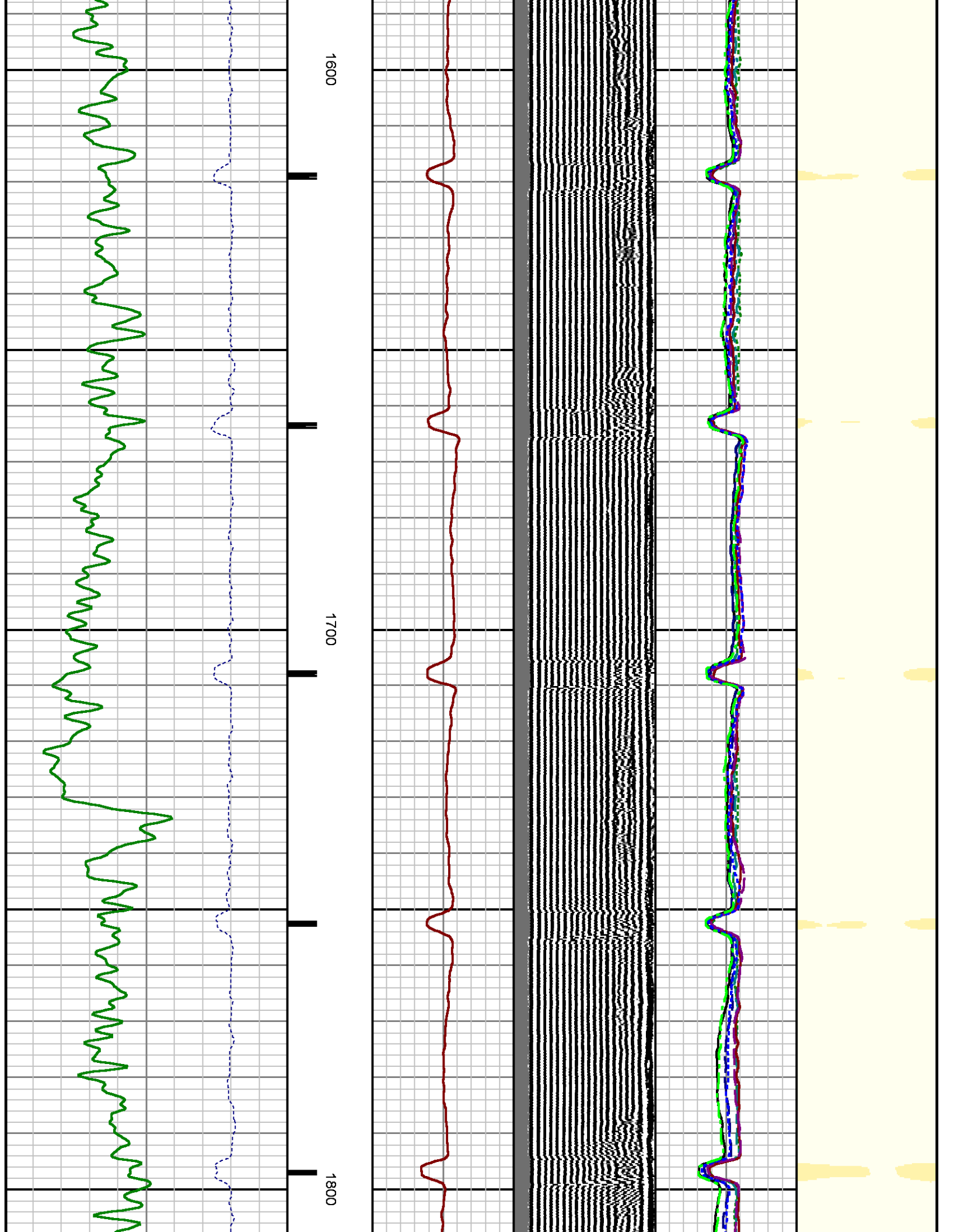


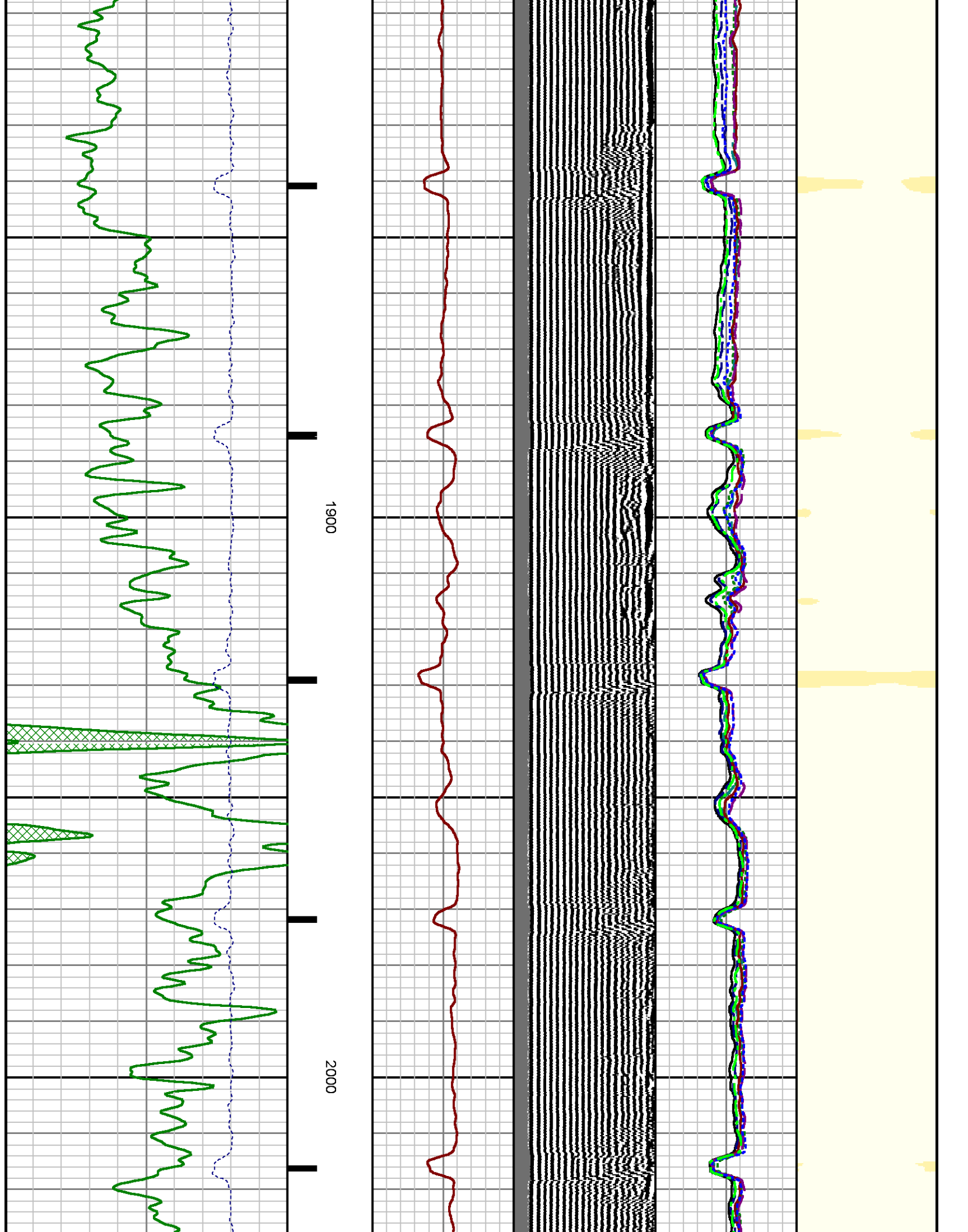


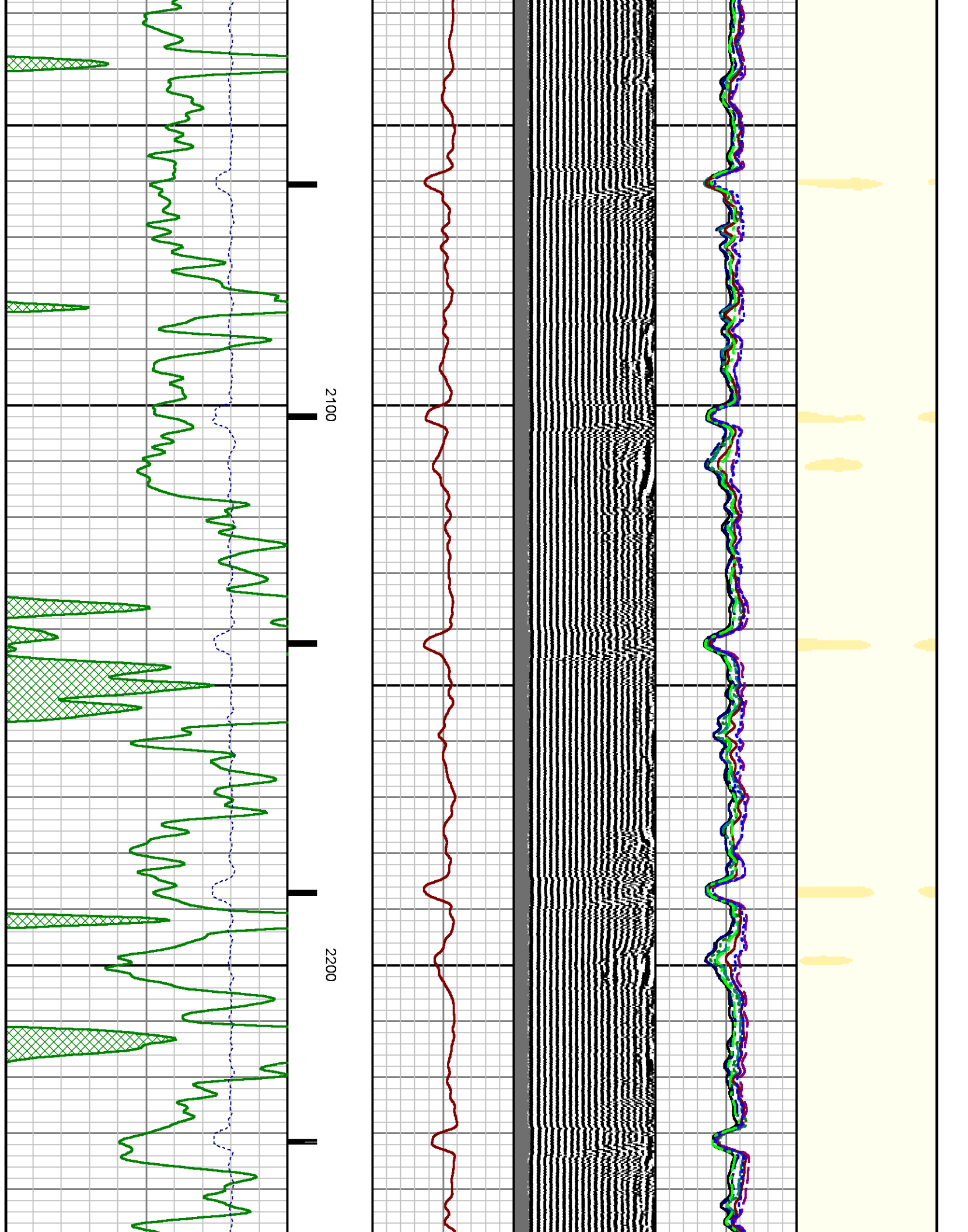


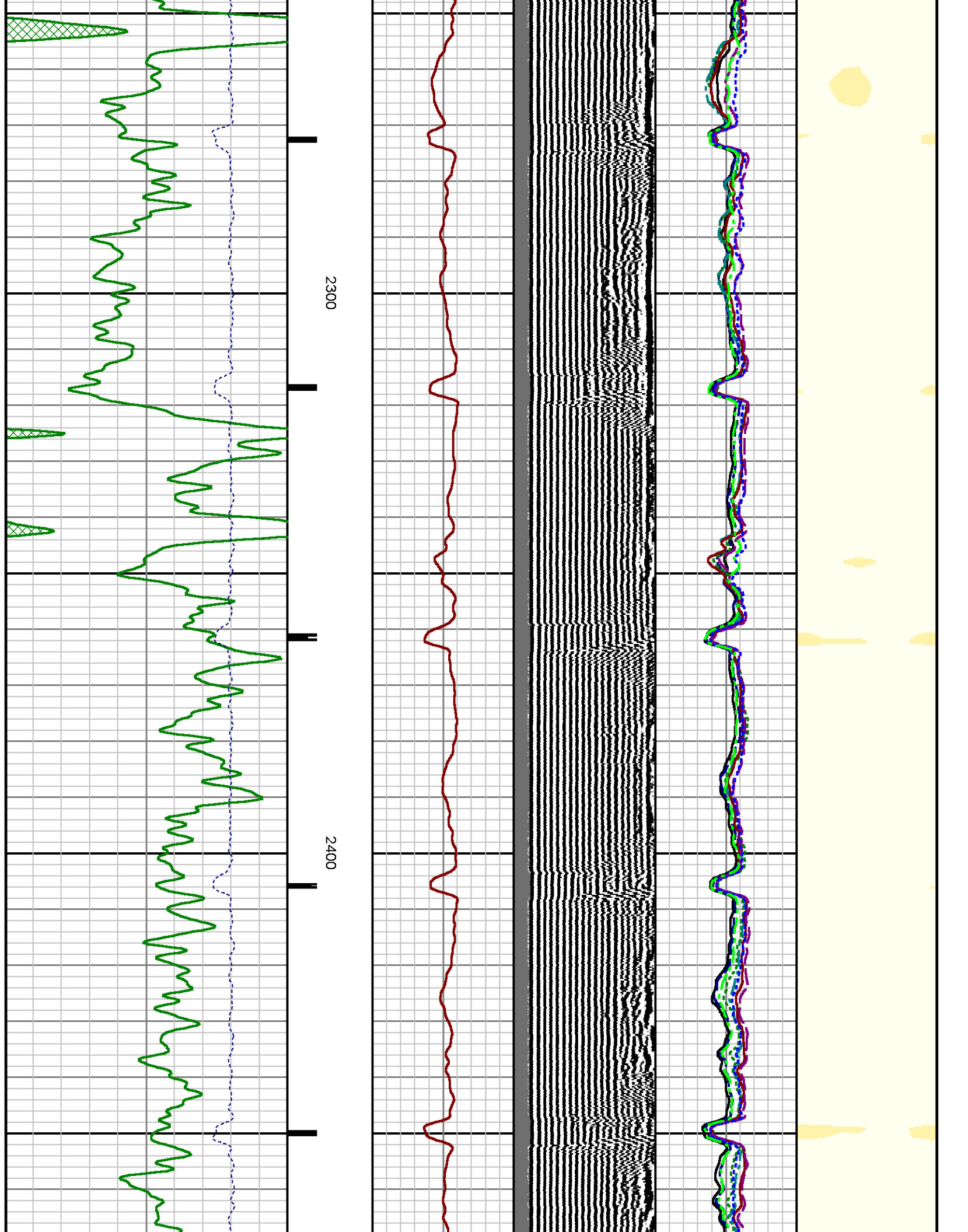


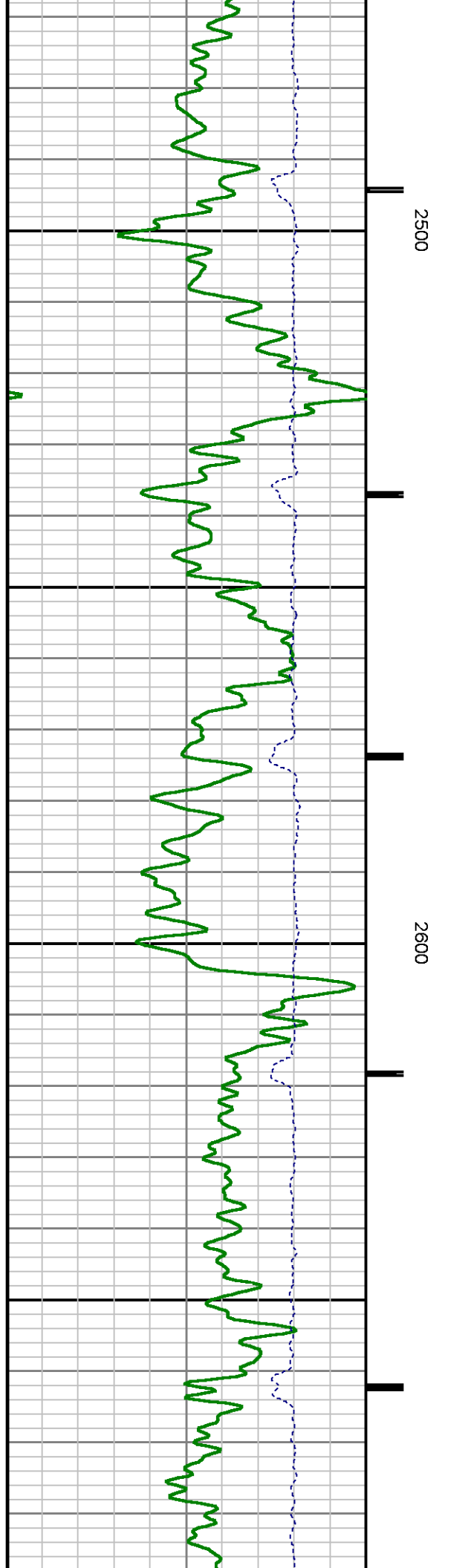
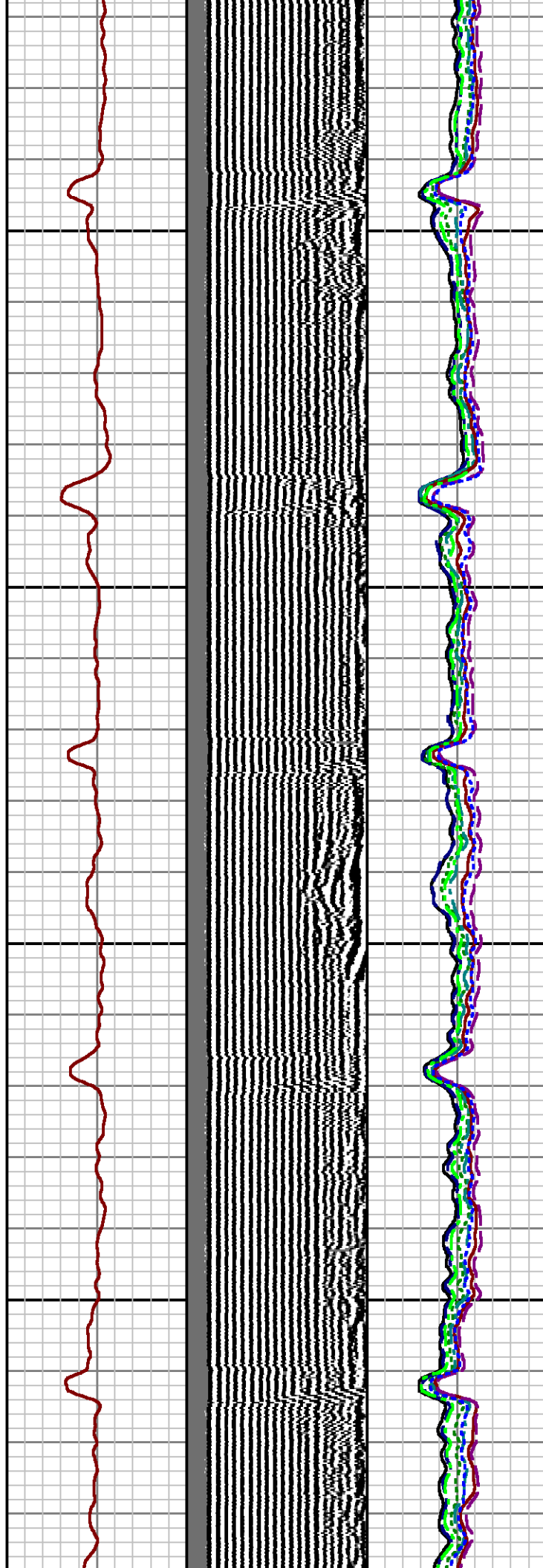
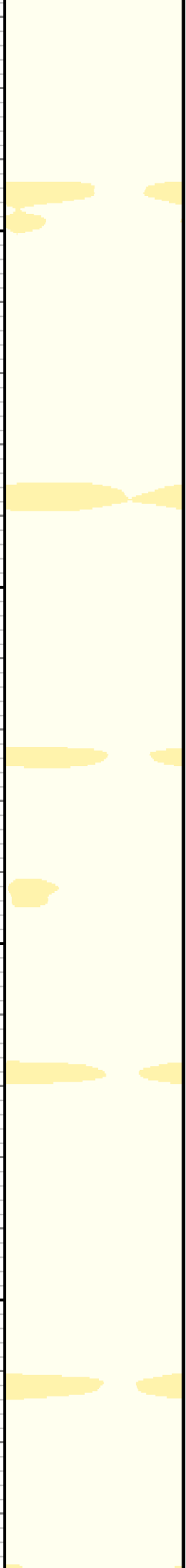


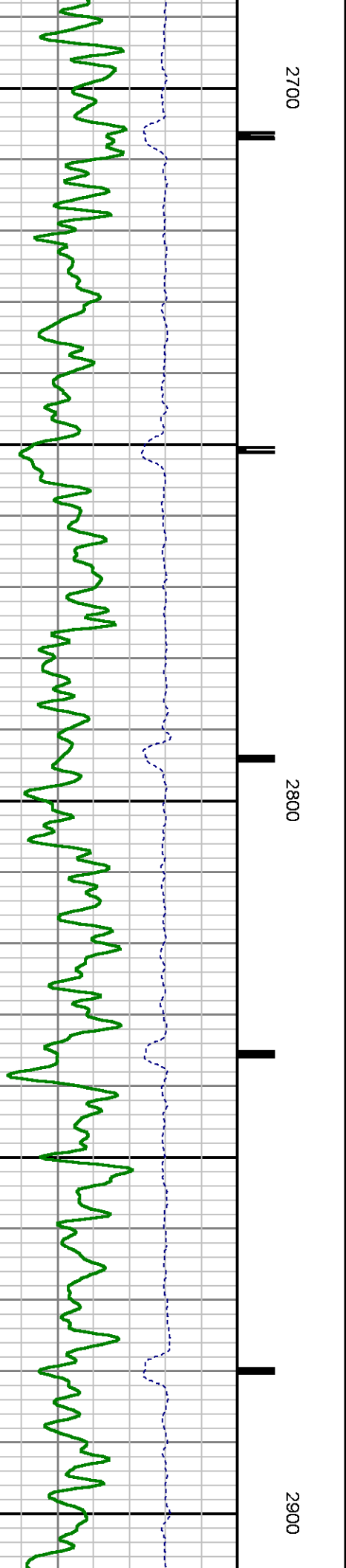
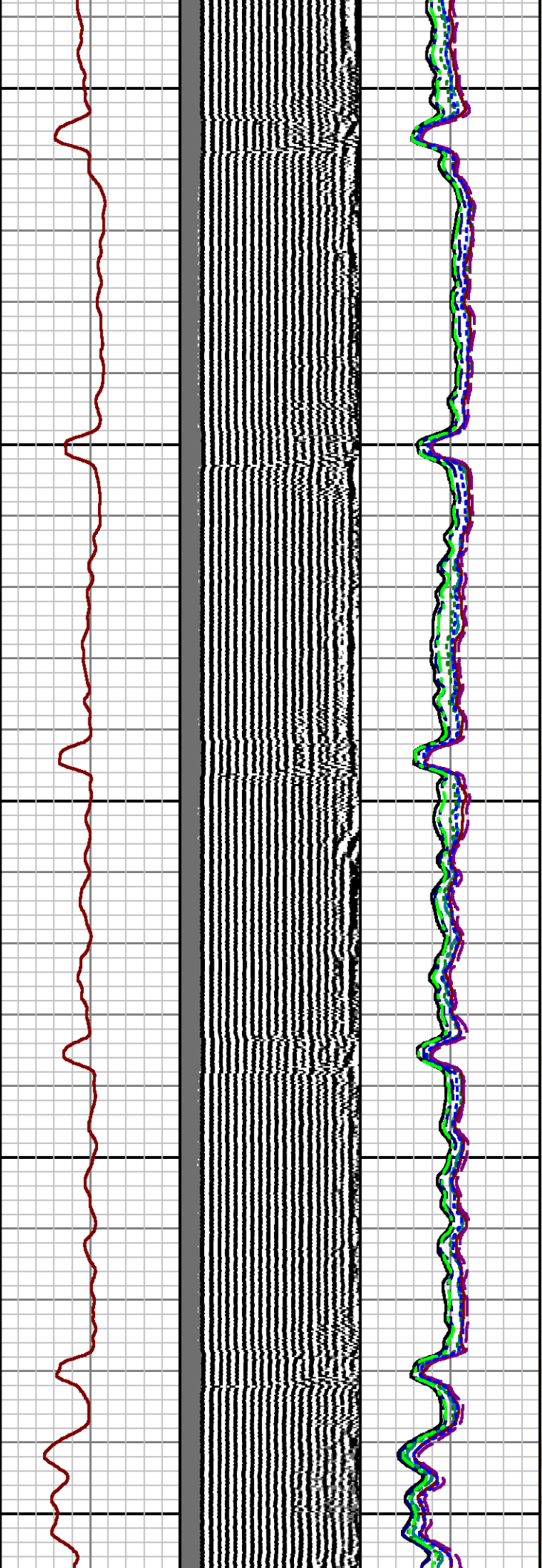
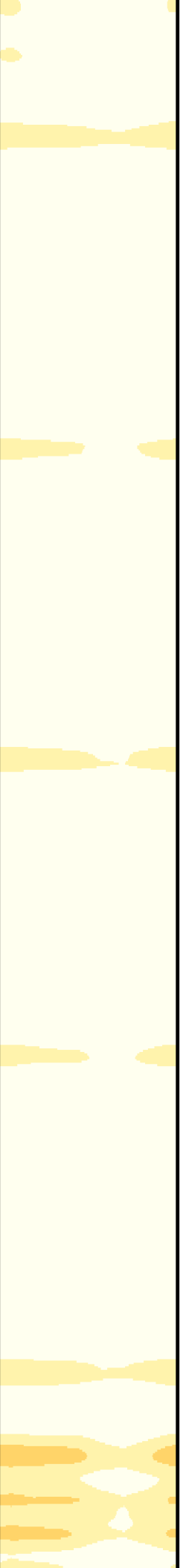


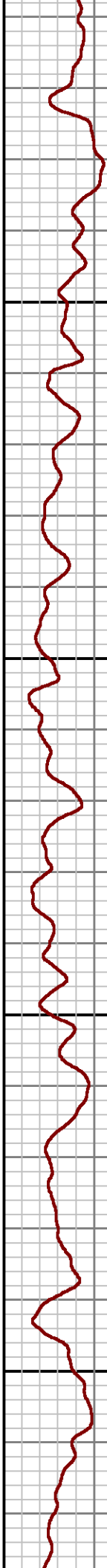
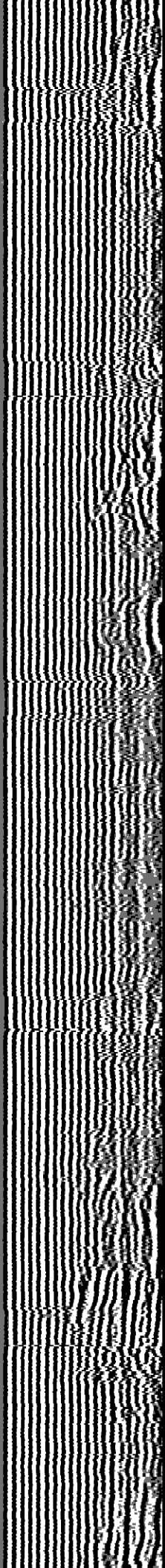
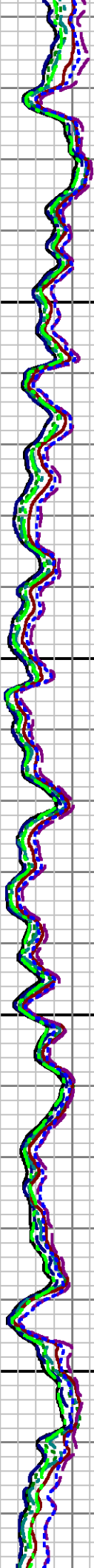
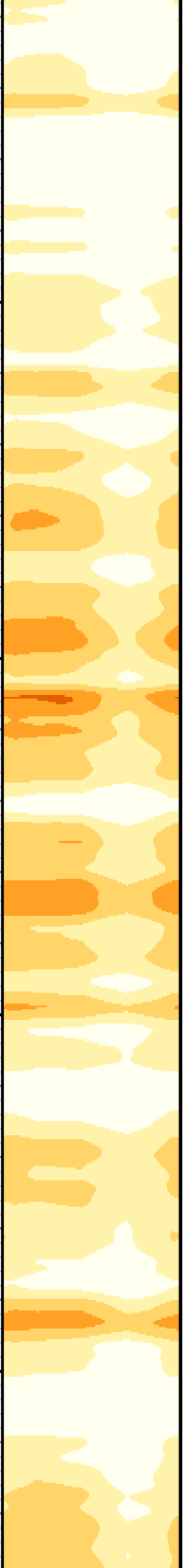






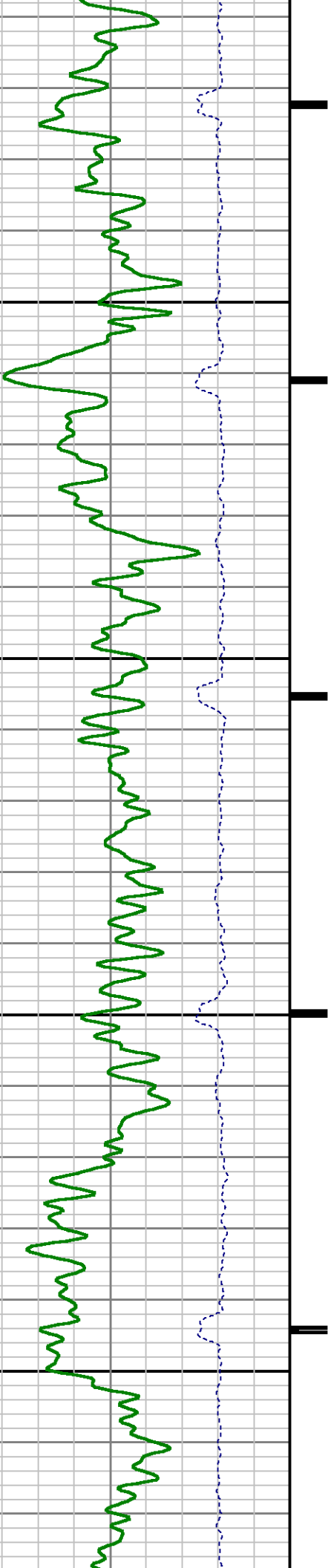


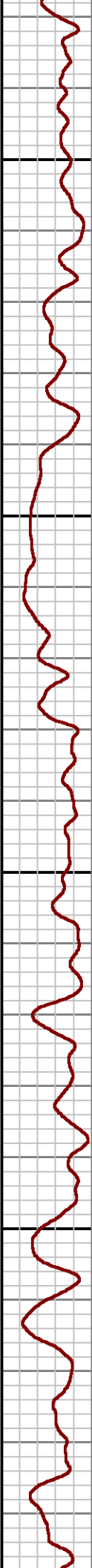
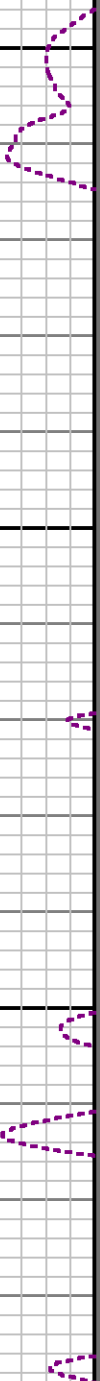
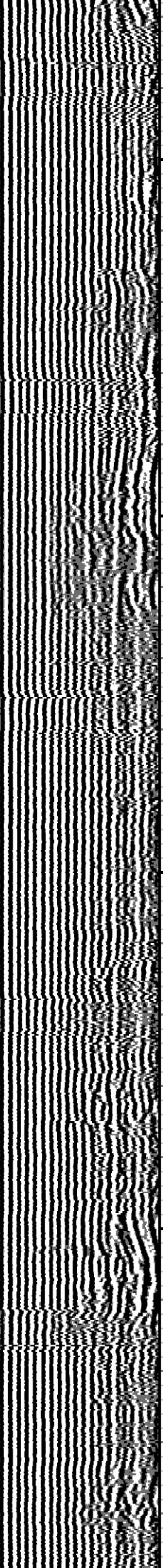
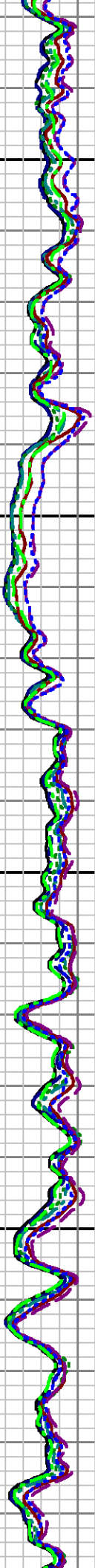
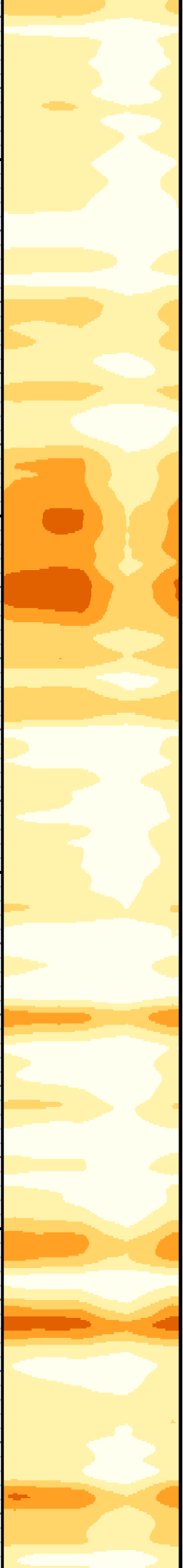




3000

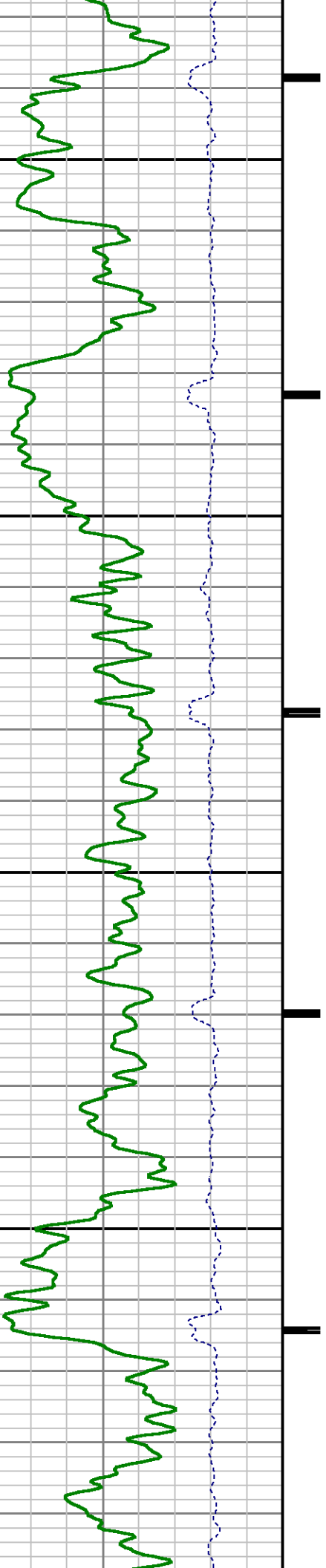
3100

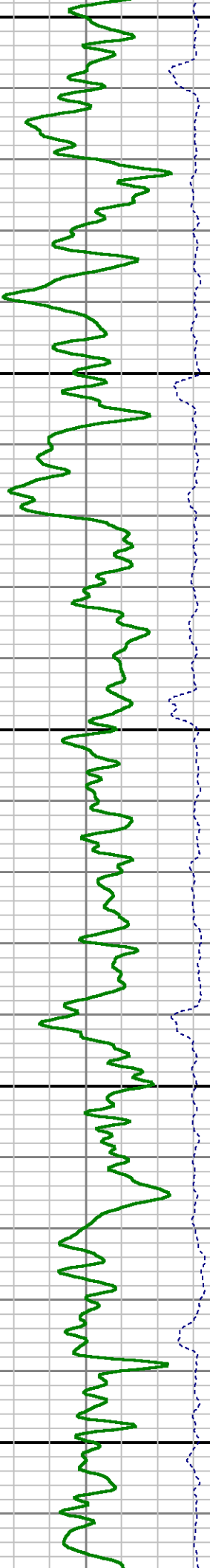
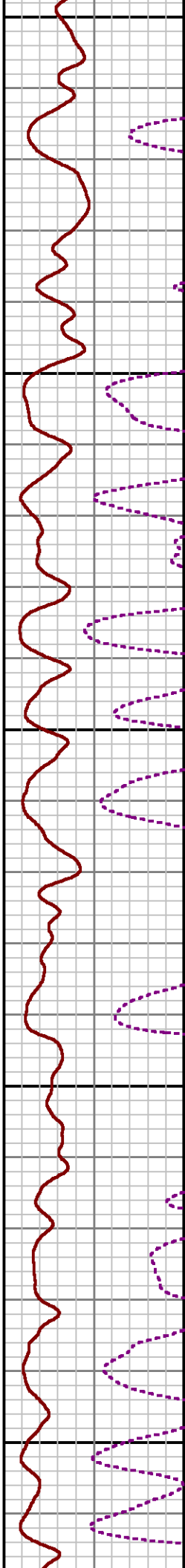
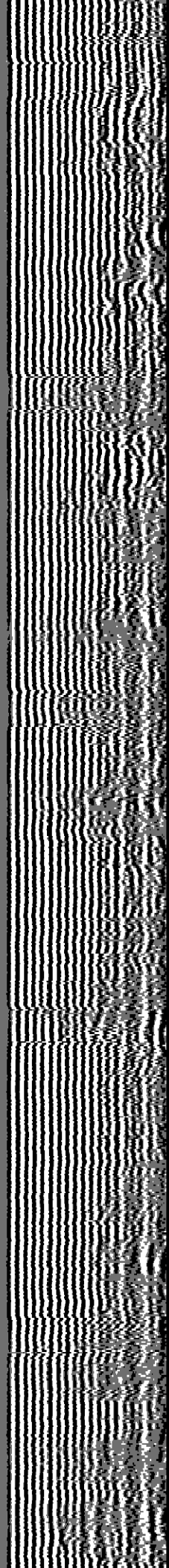
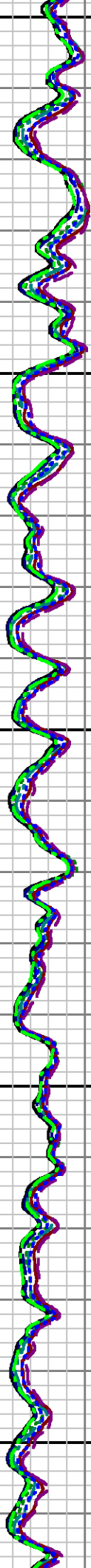
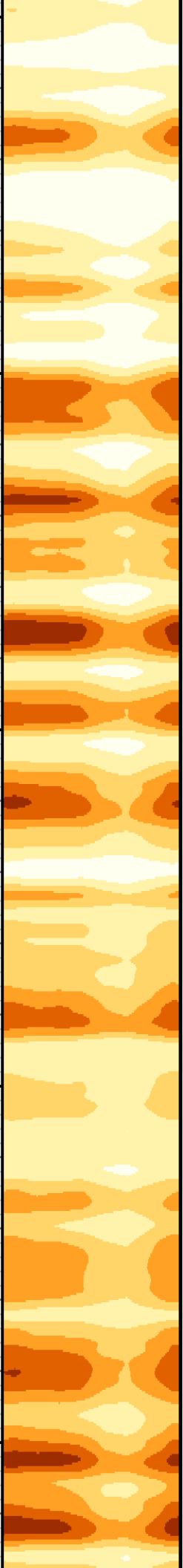


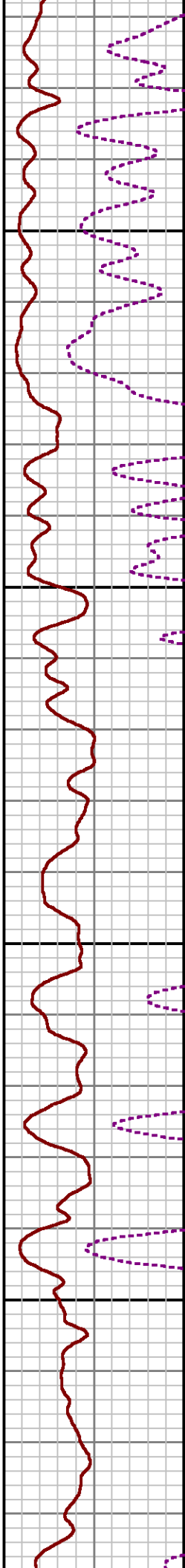
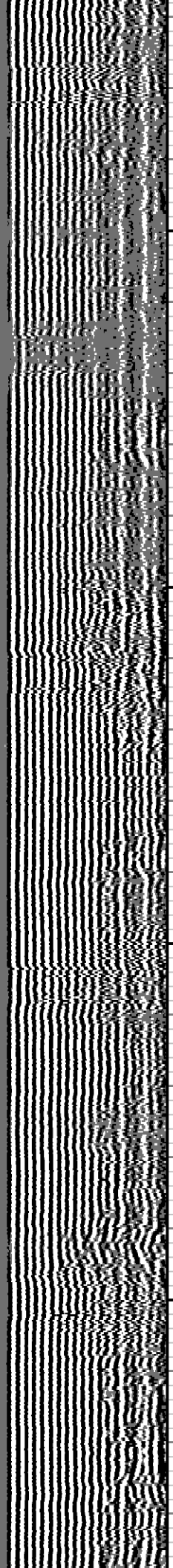
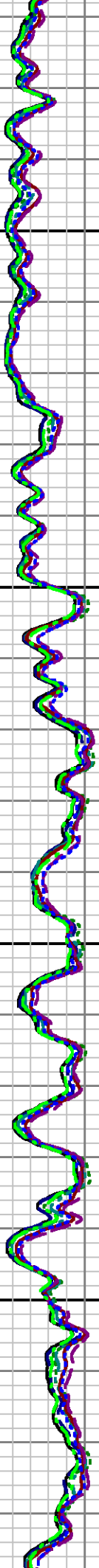
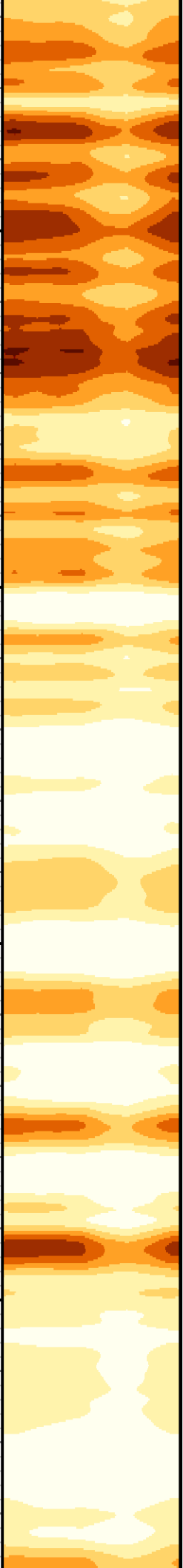


3200

3300

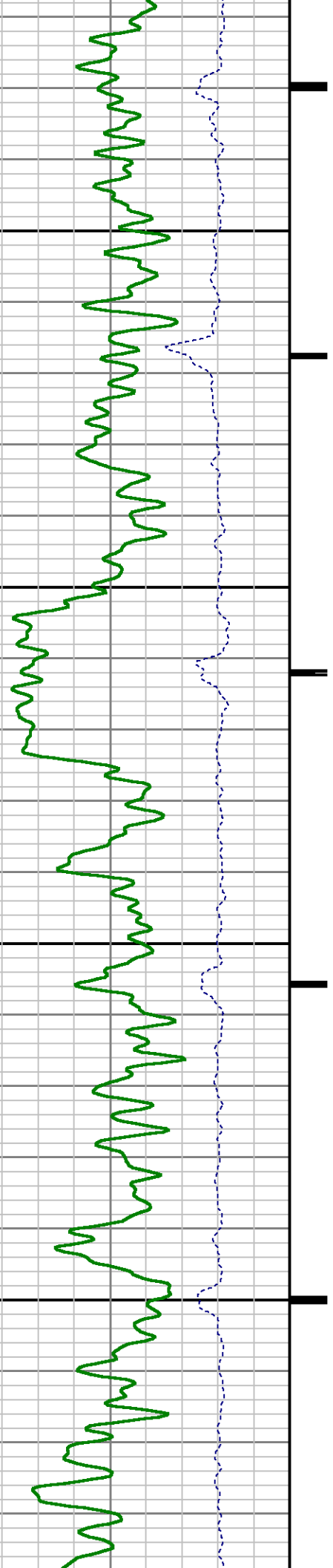


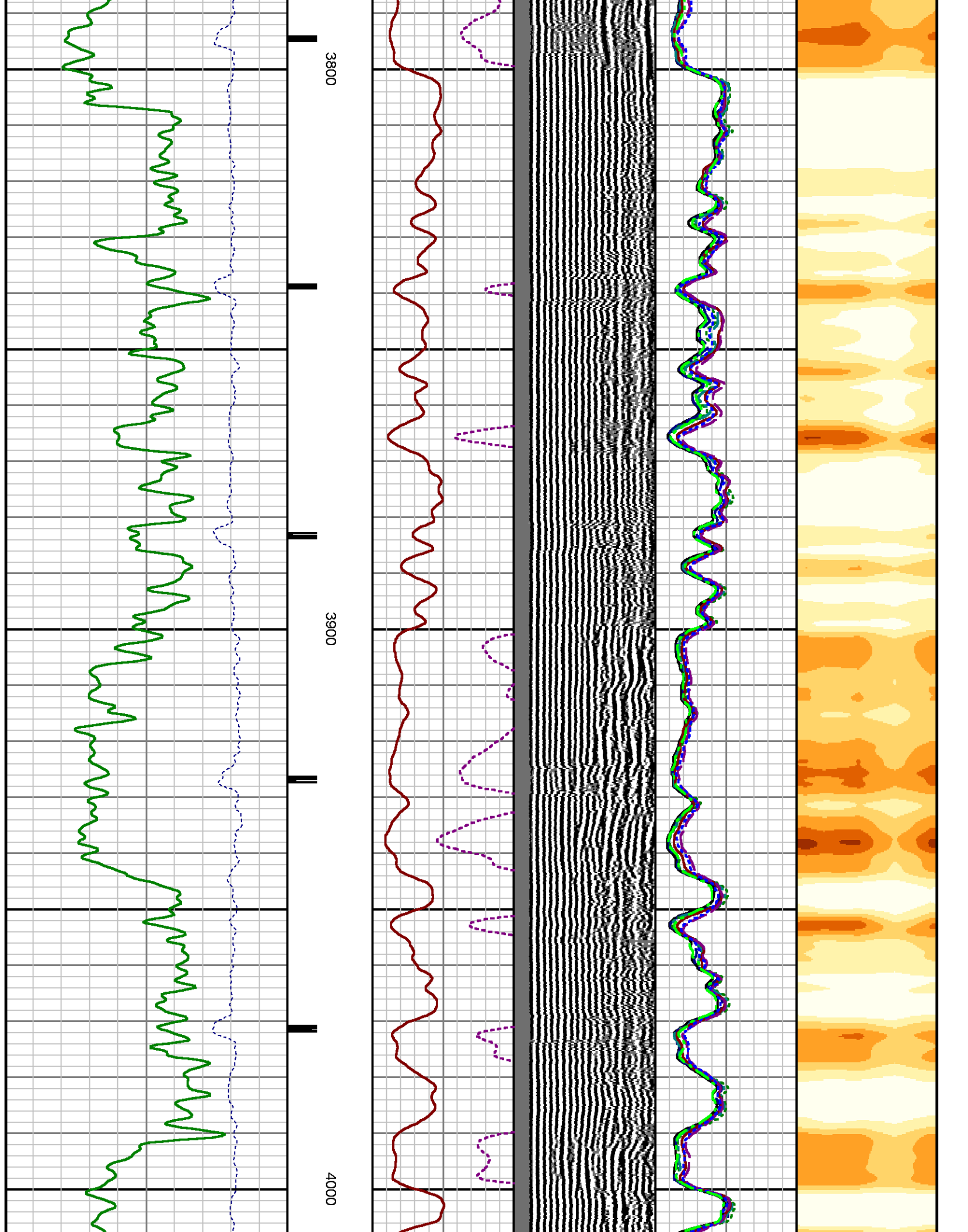


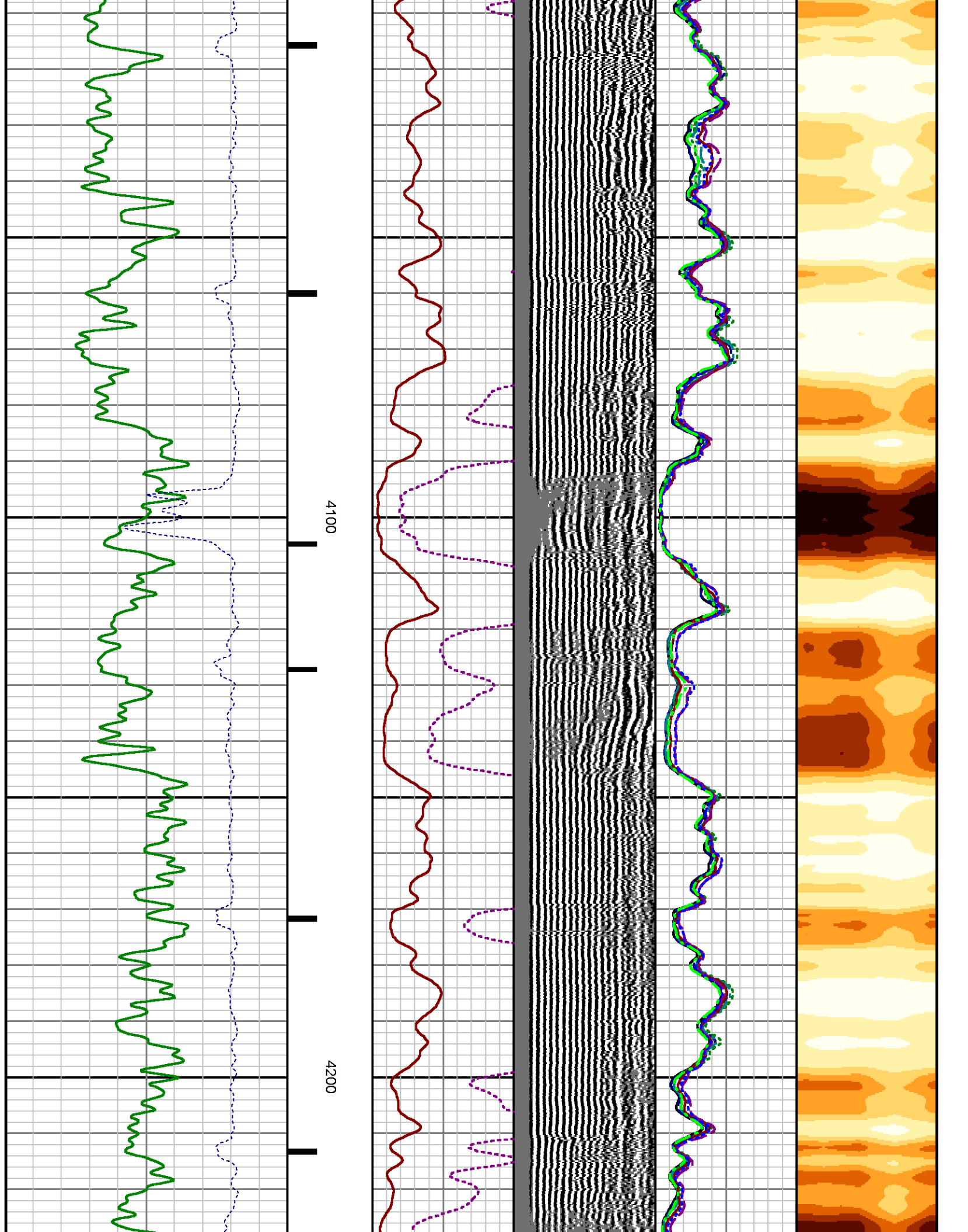


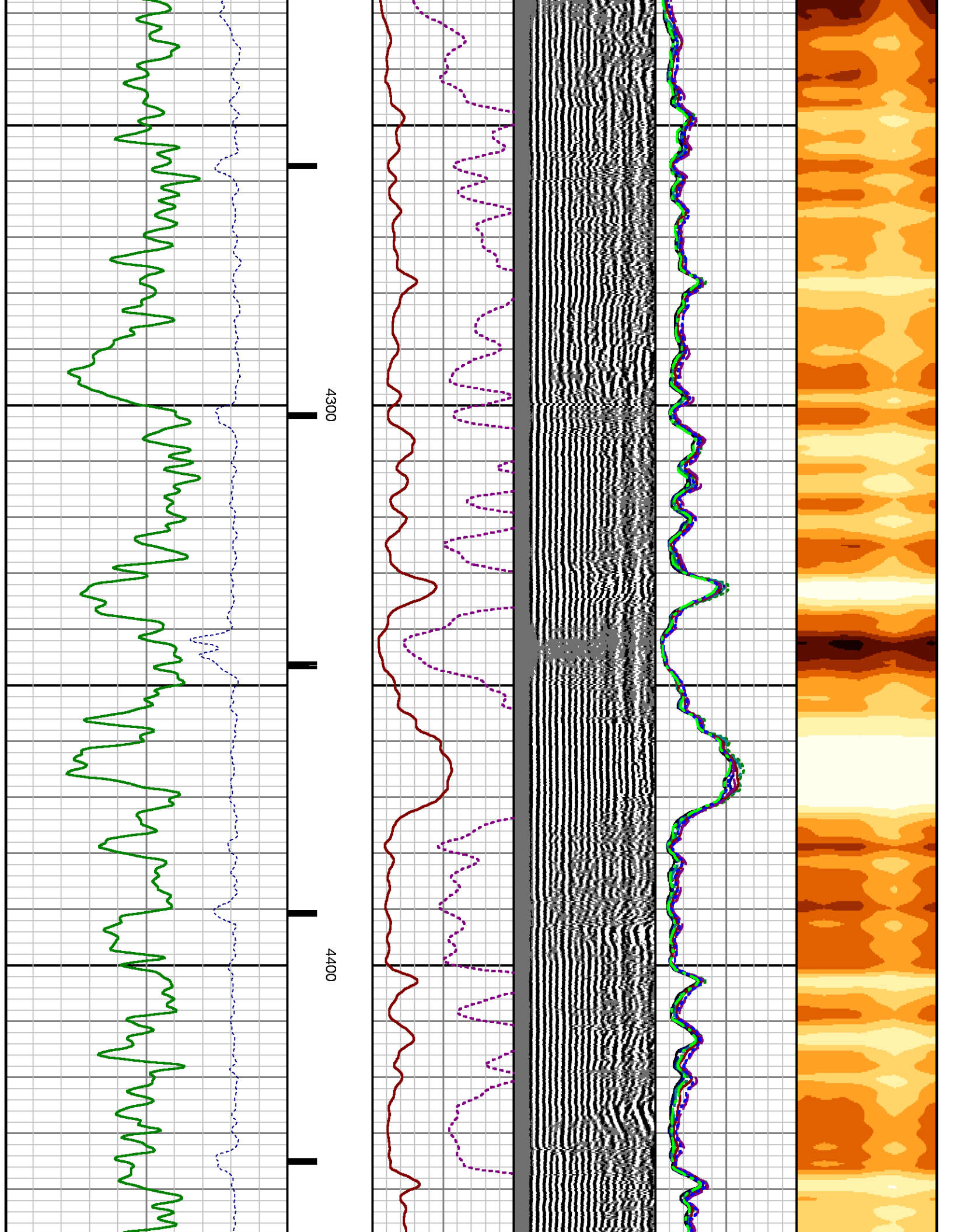
3600

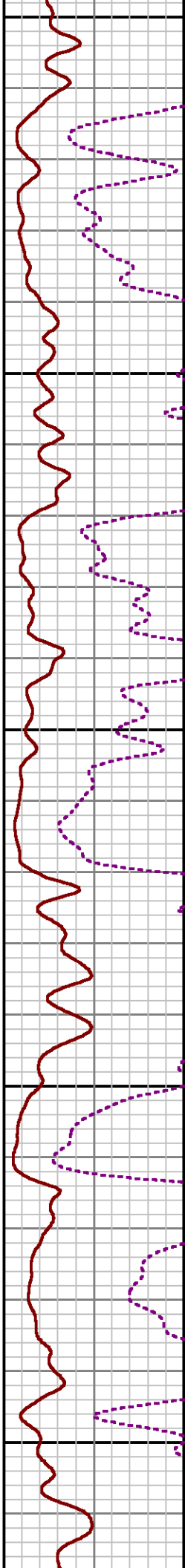
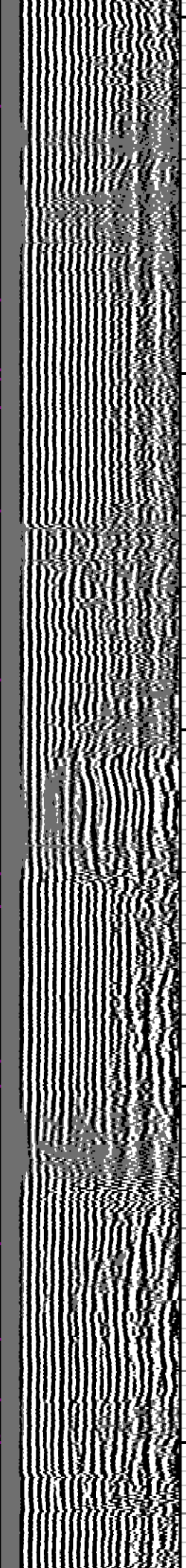
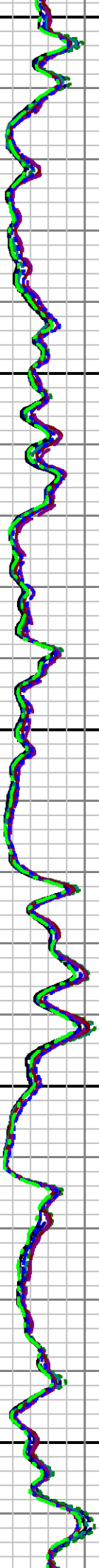
3700





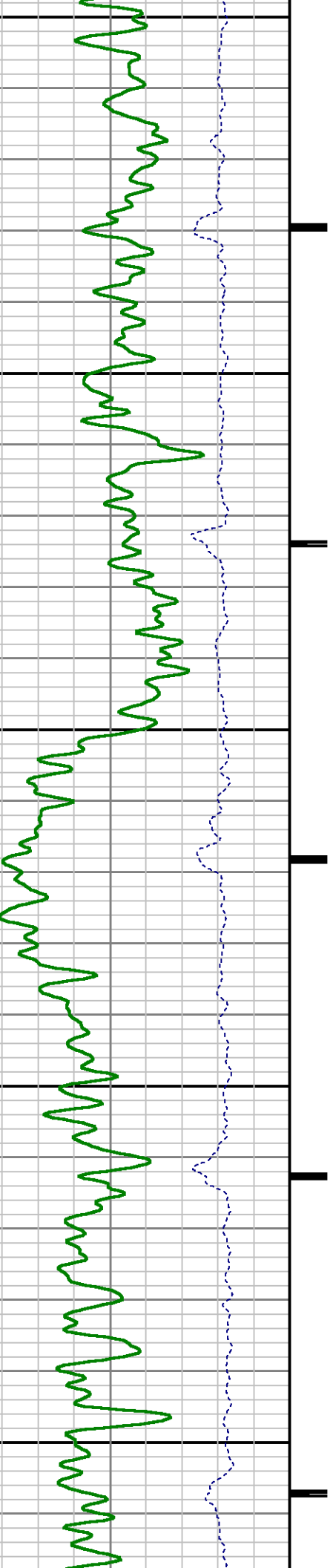


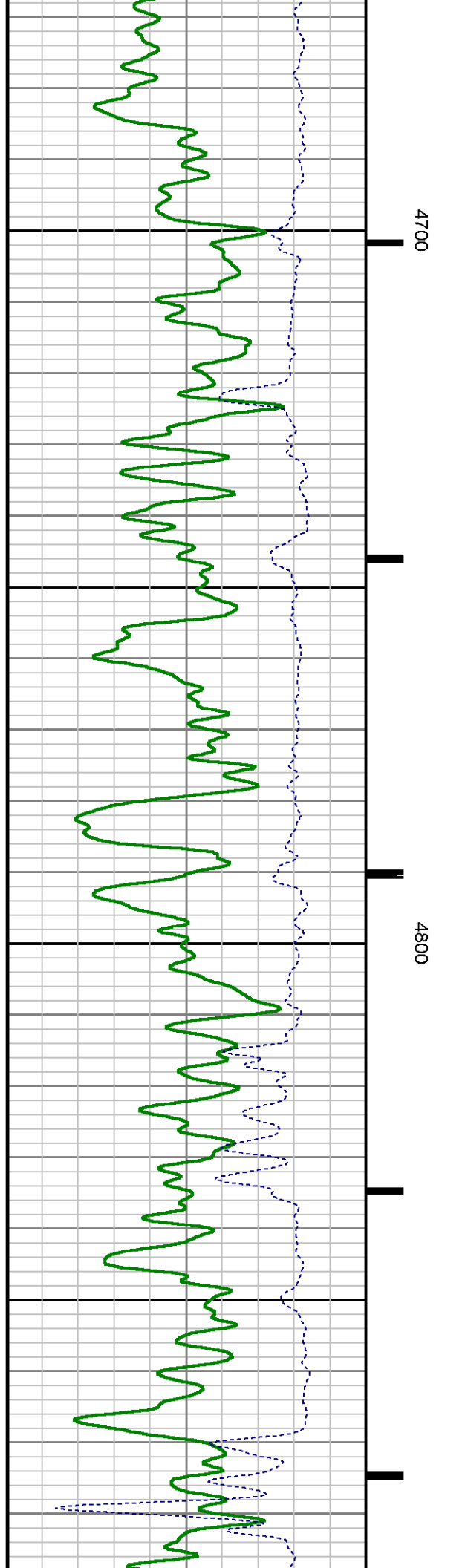
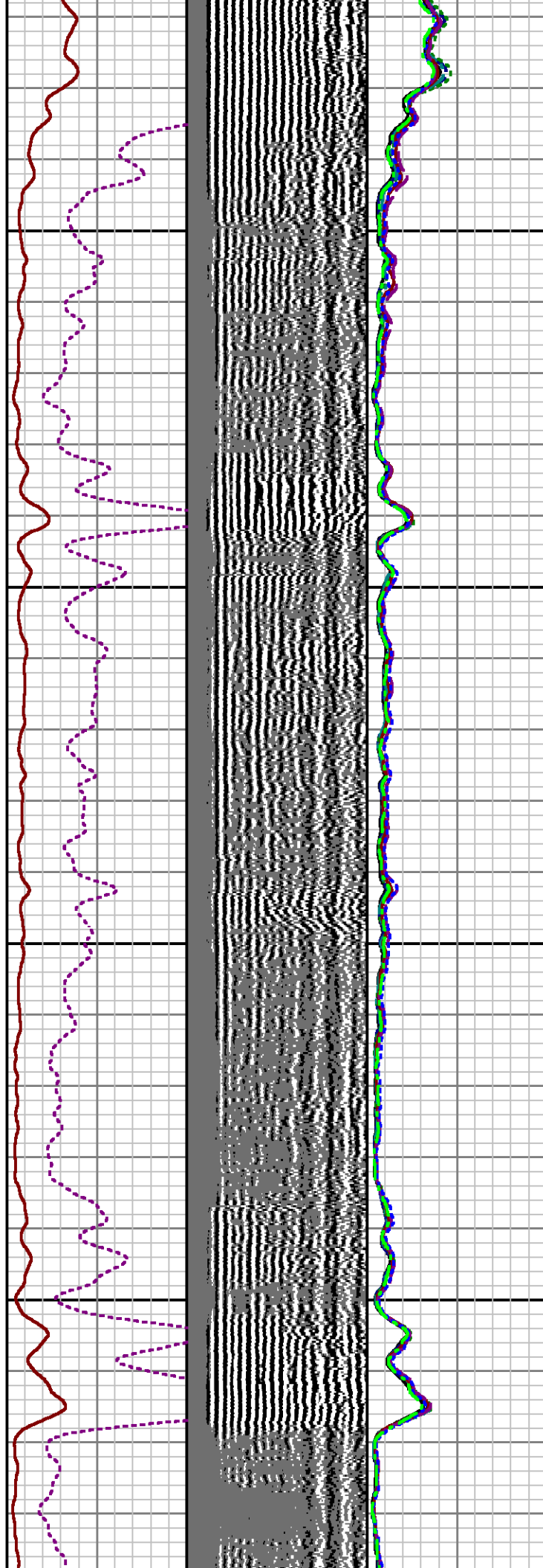
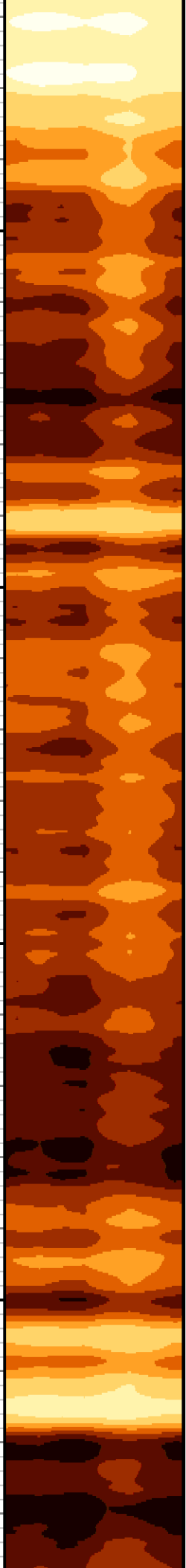


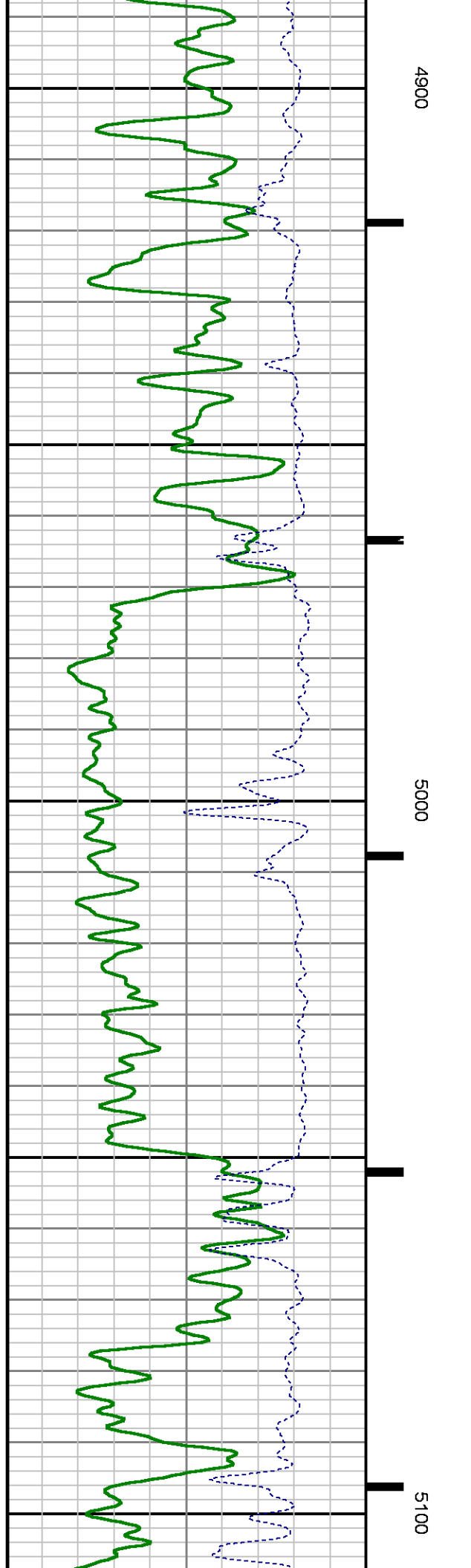
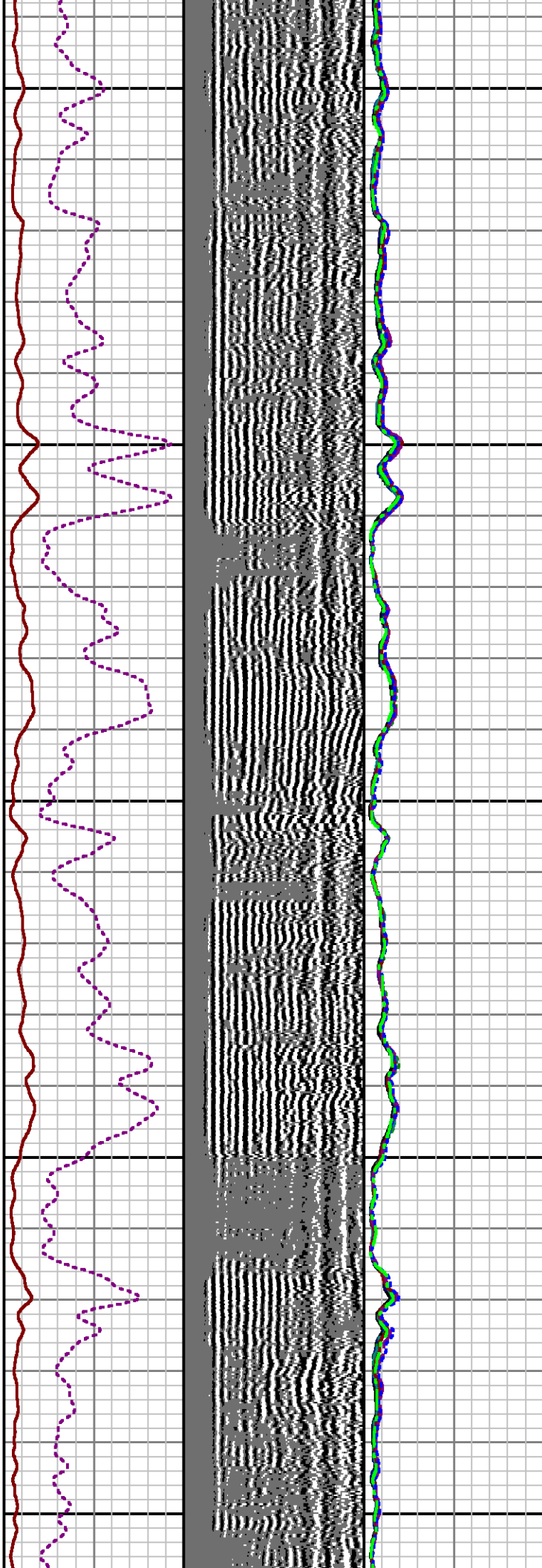


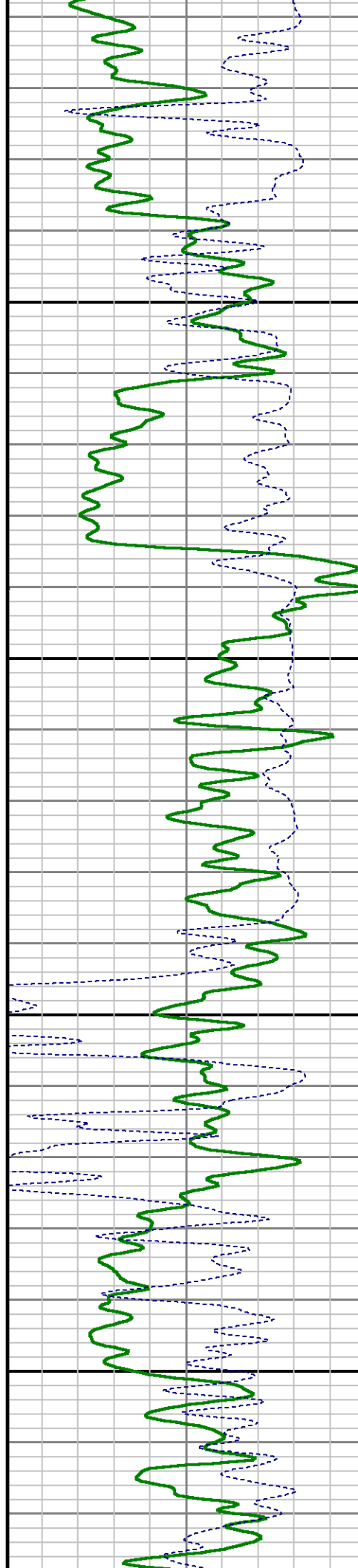
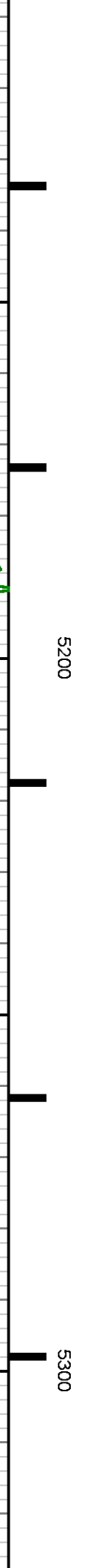
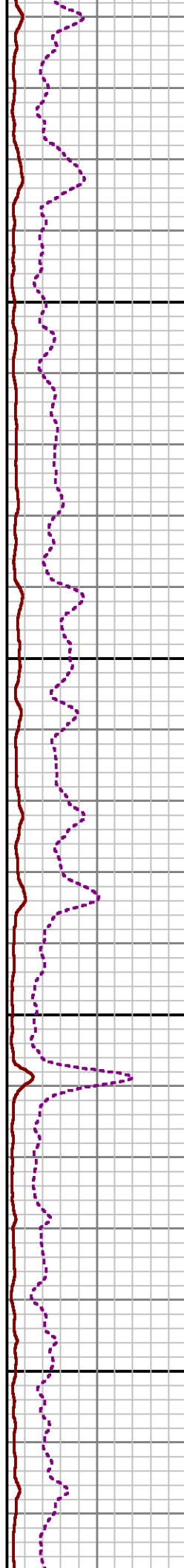
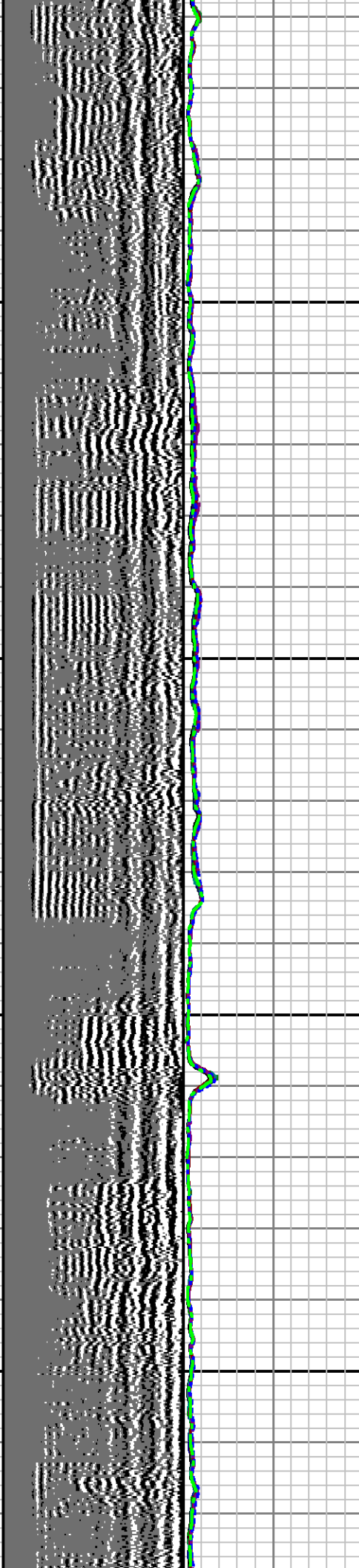
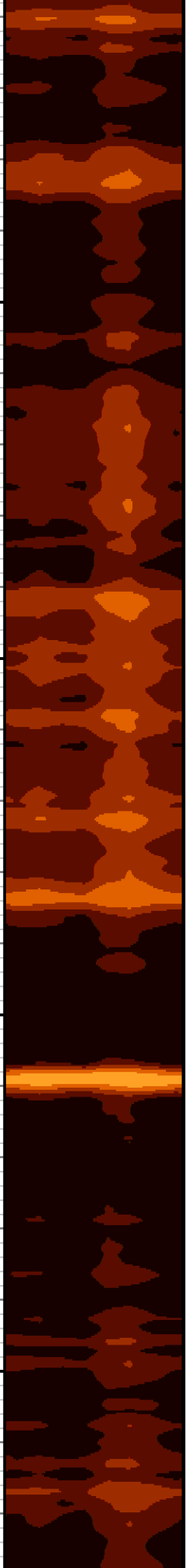
4500

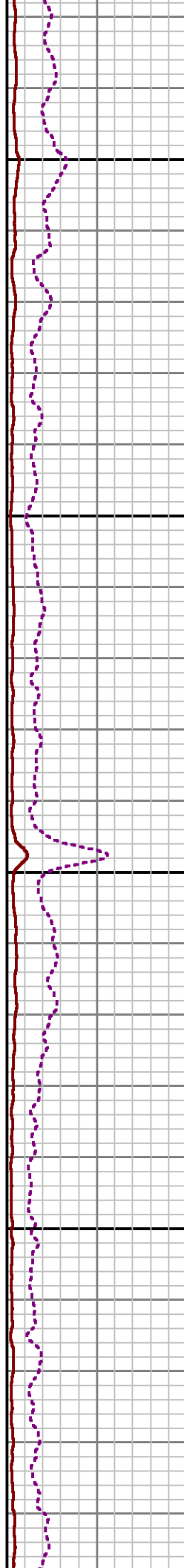
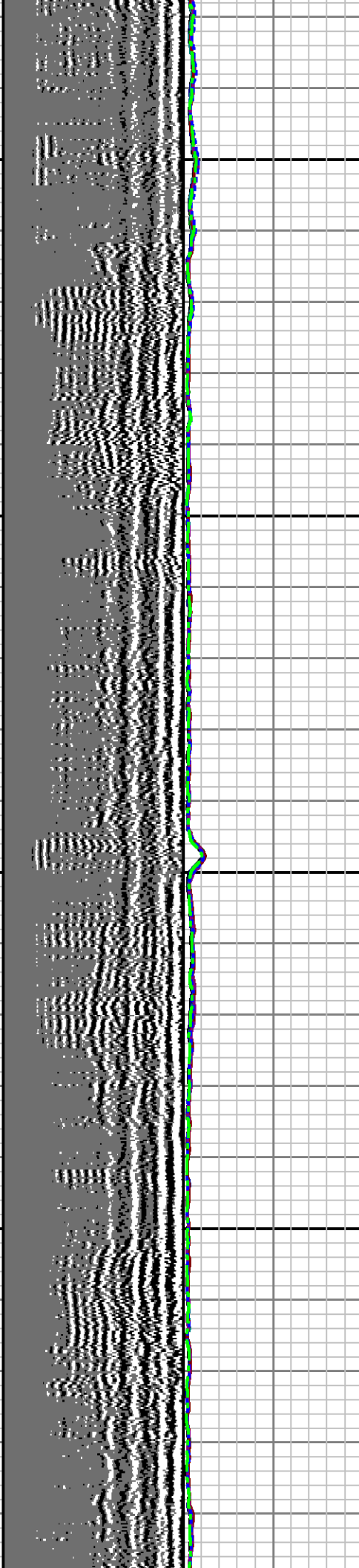
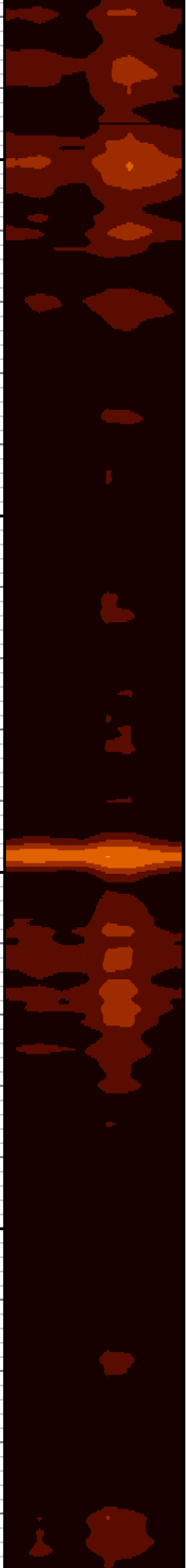
4600





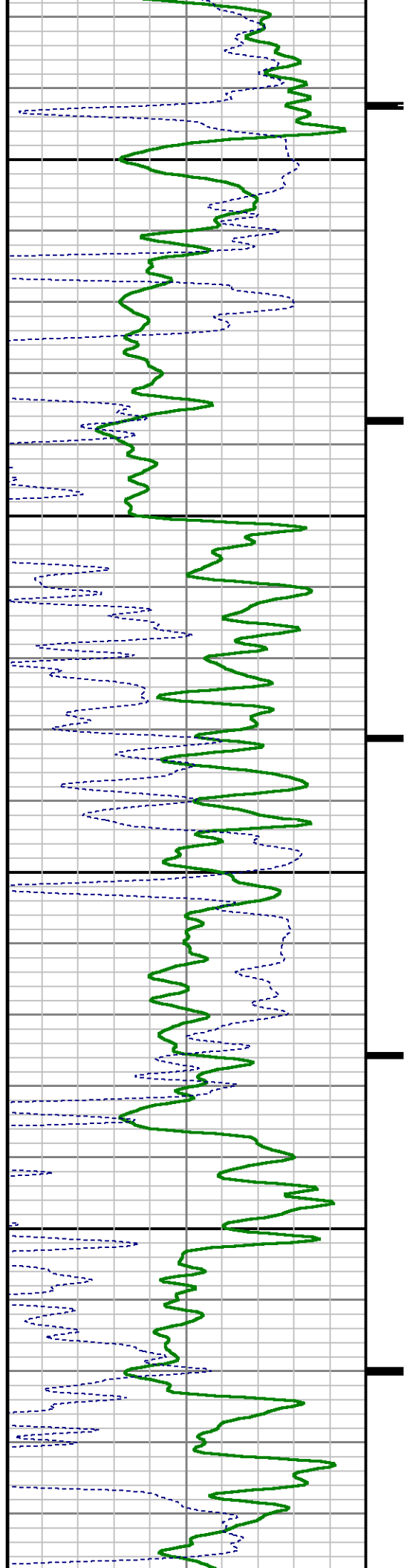


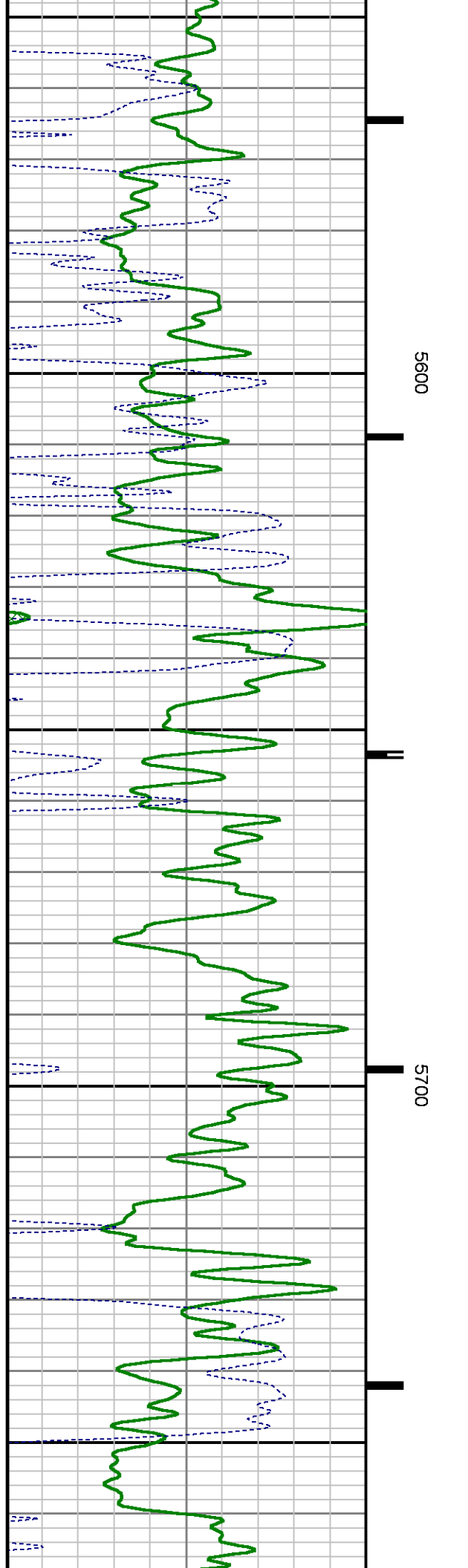
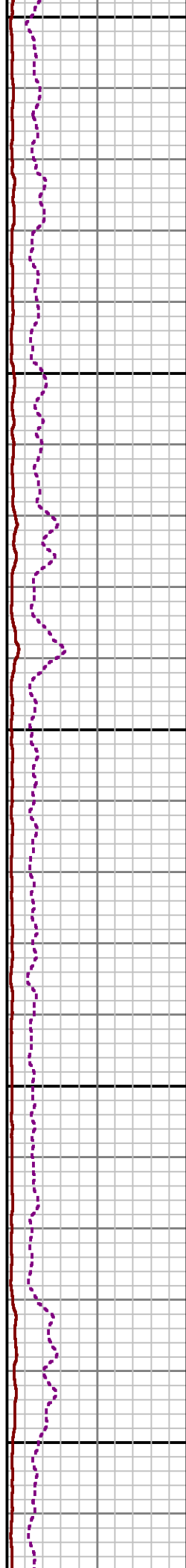
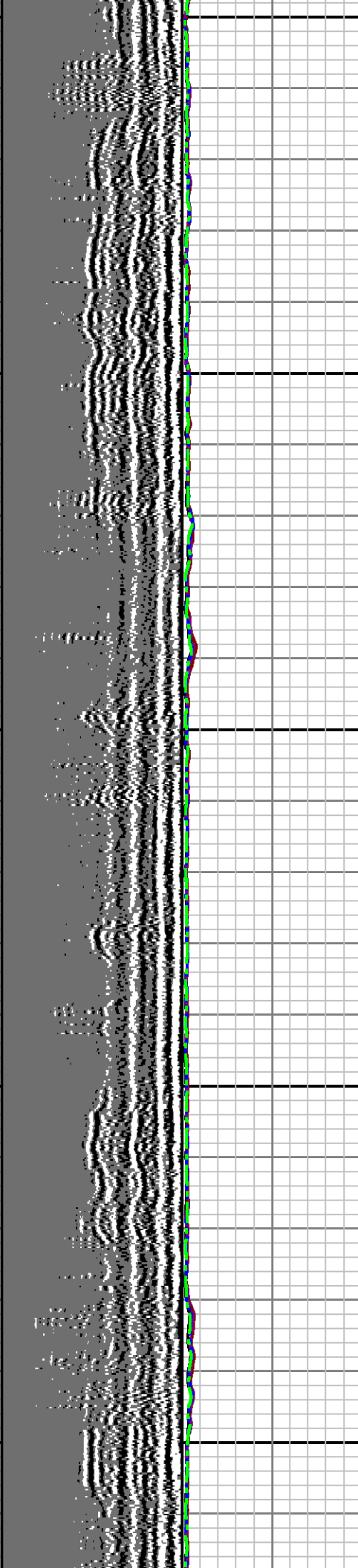
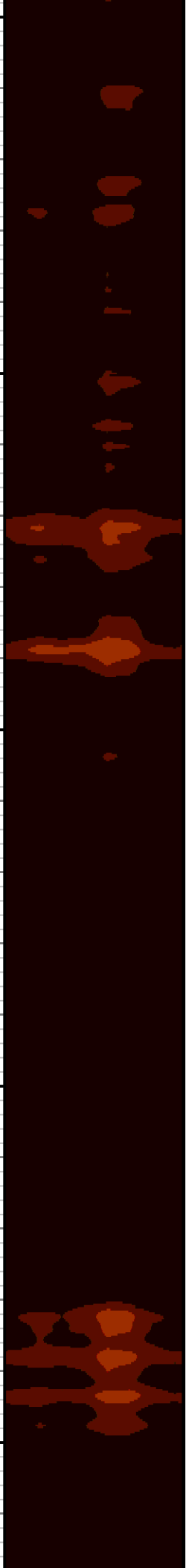


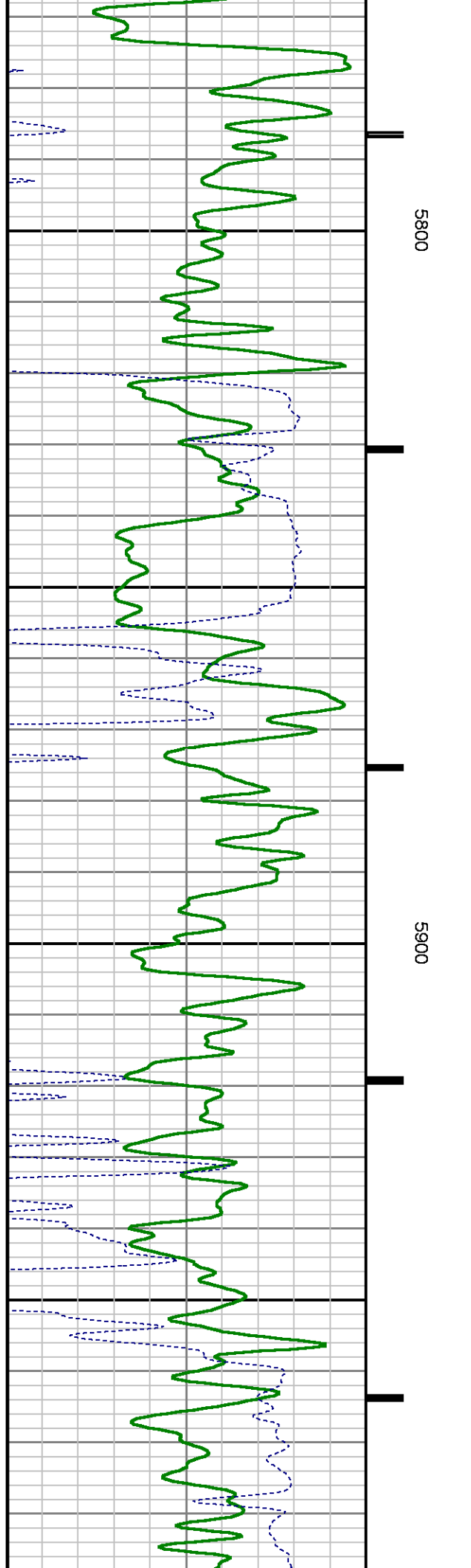
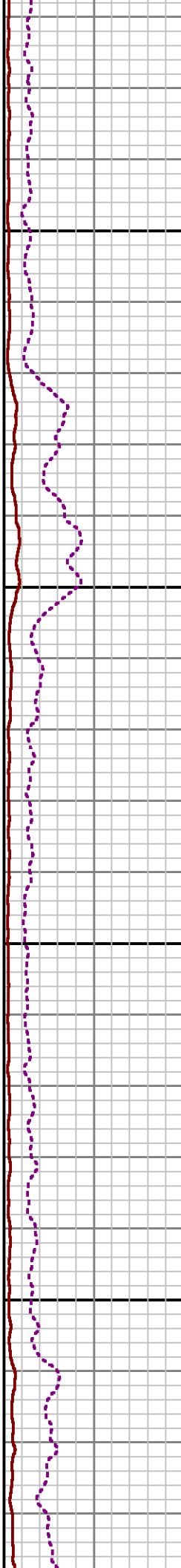
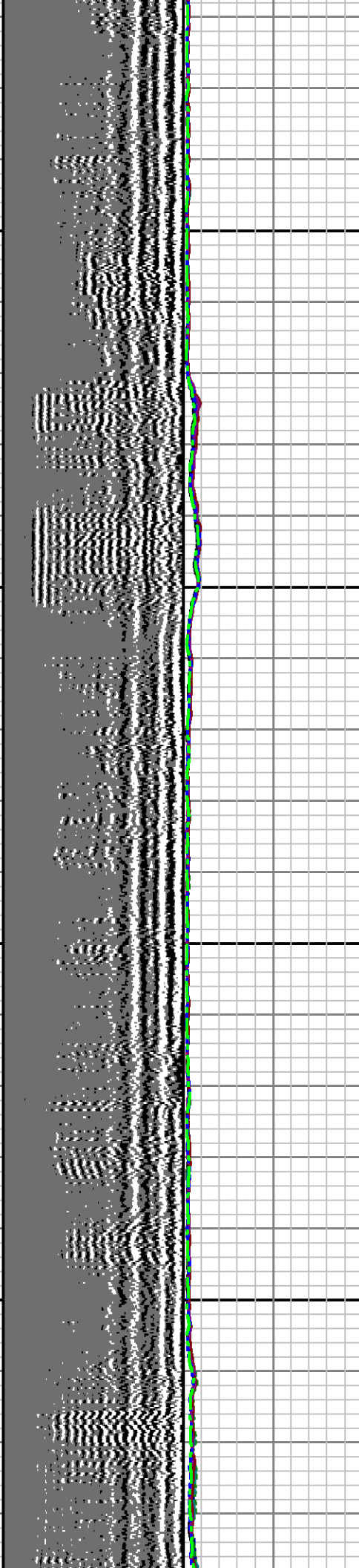
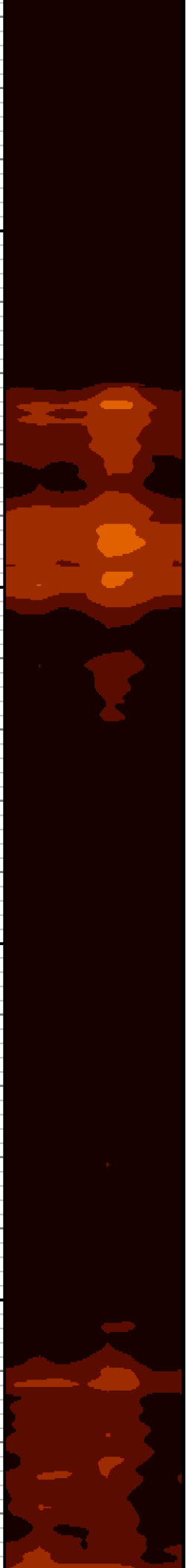


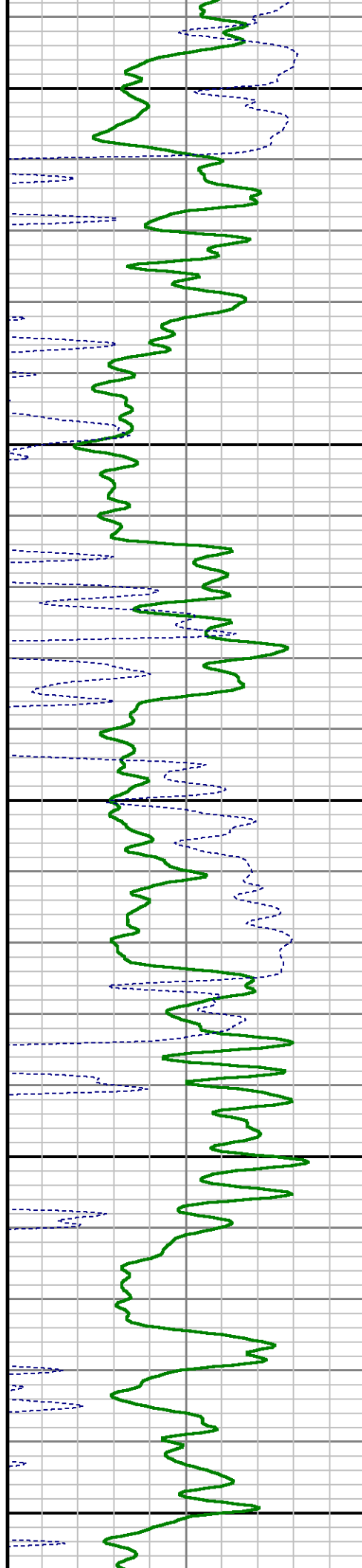
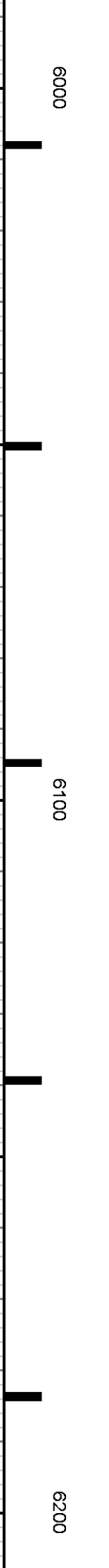
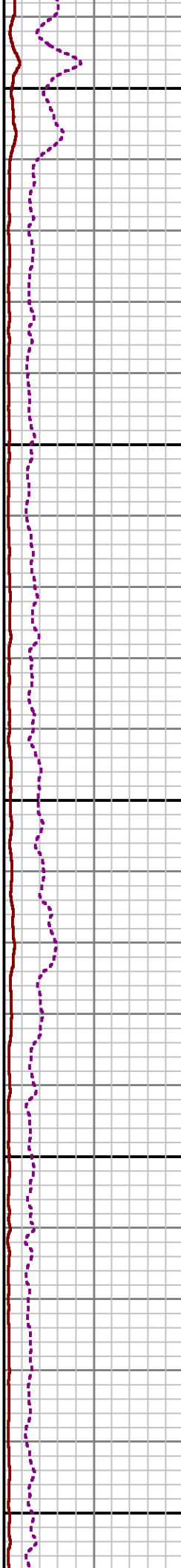
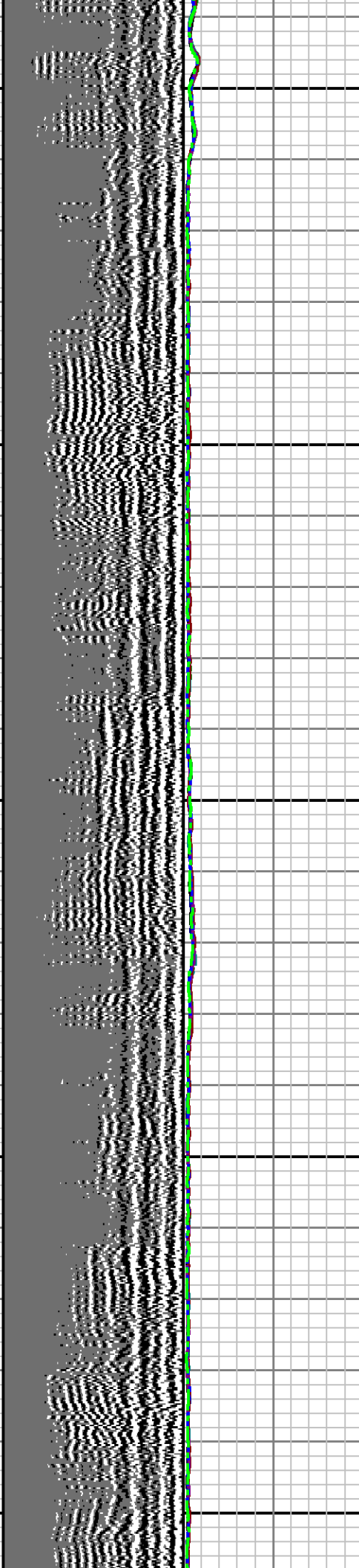
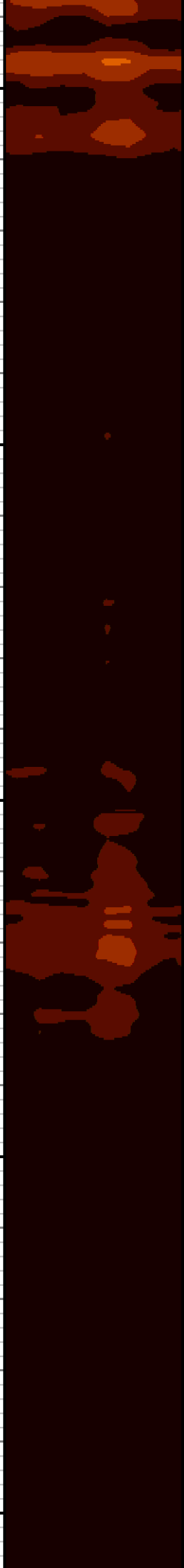
5400

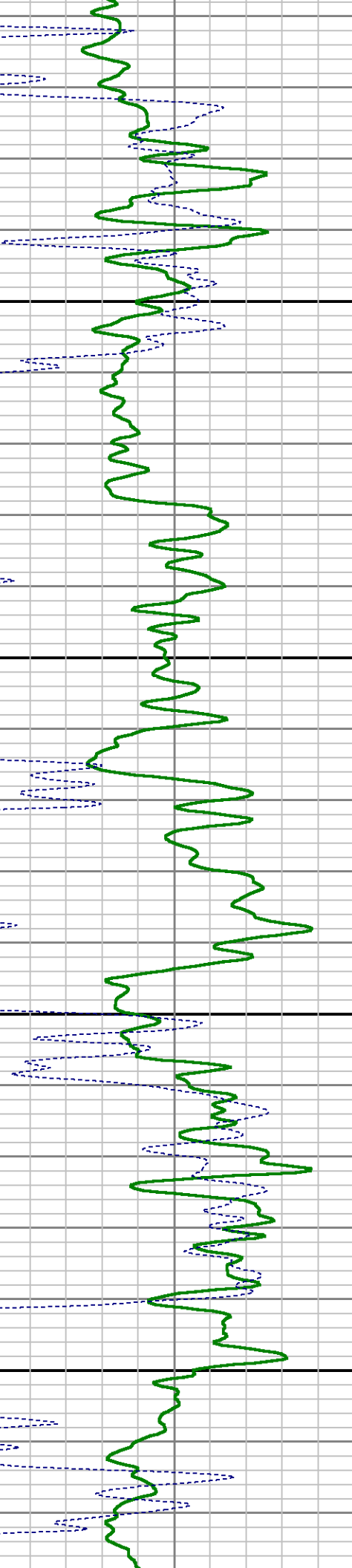
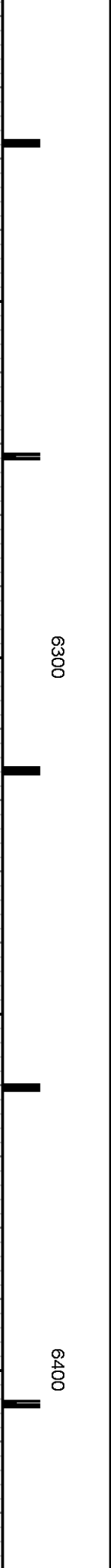
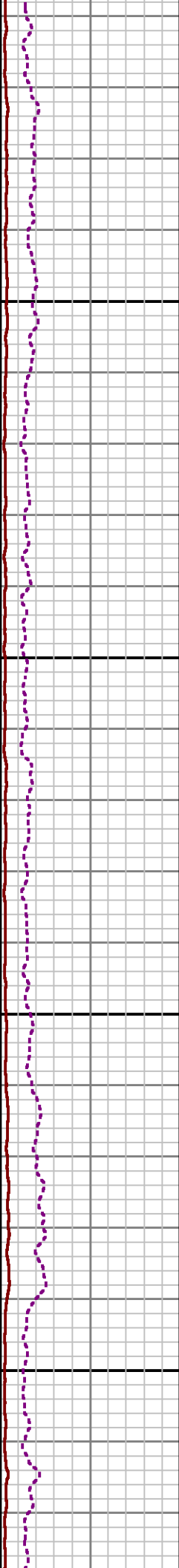
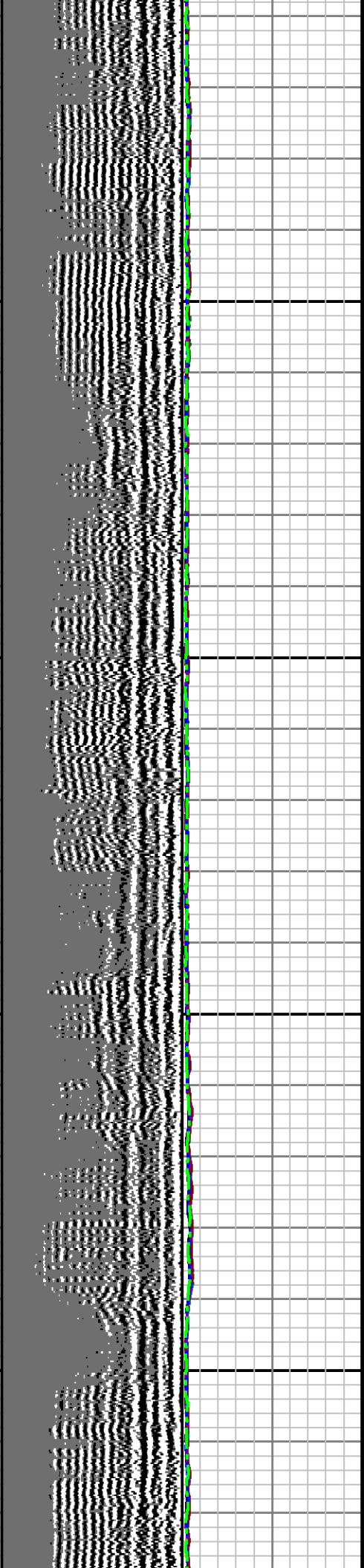
5500

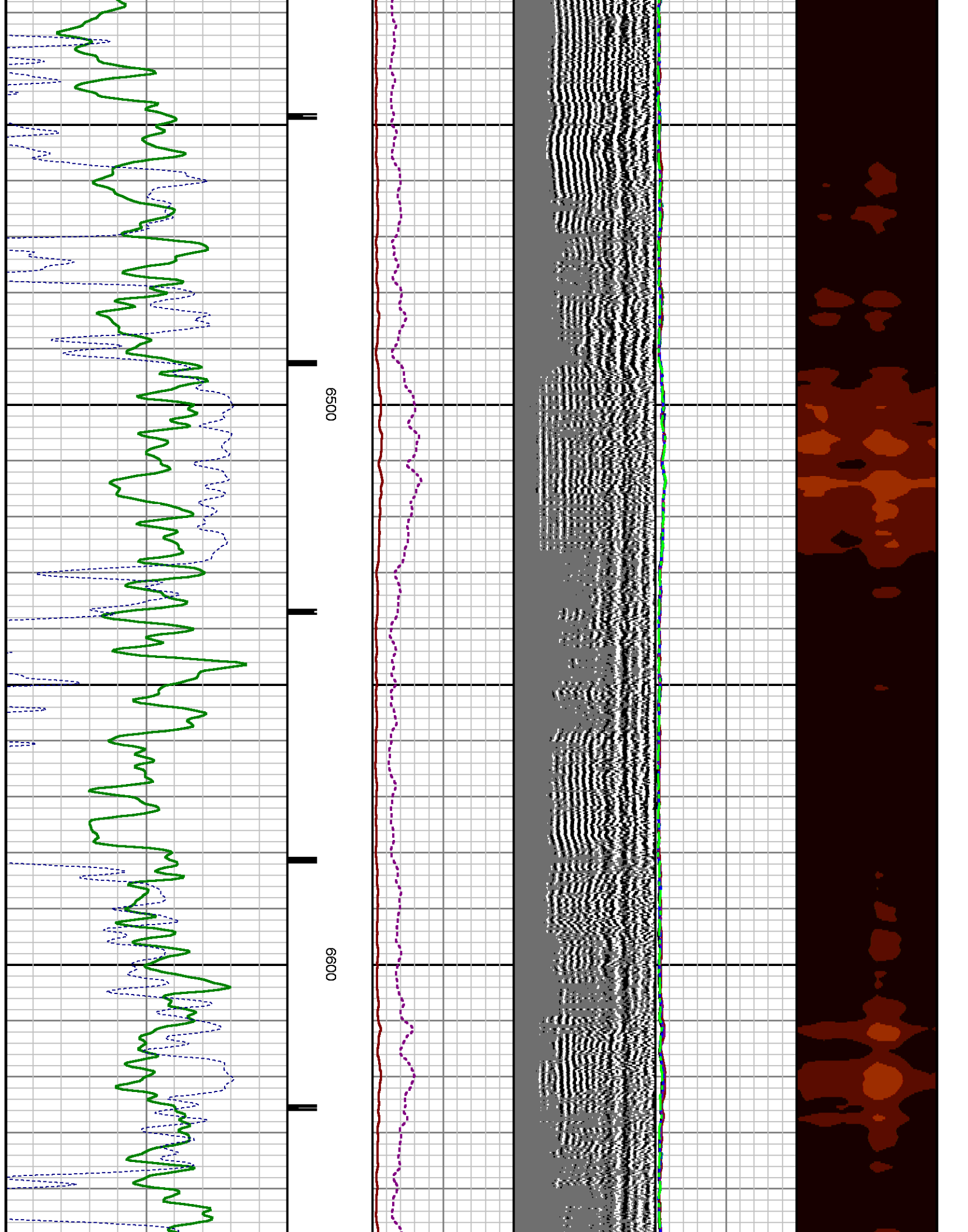


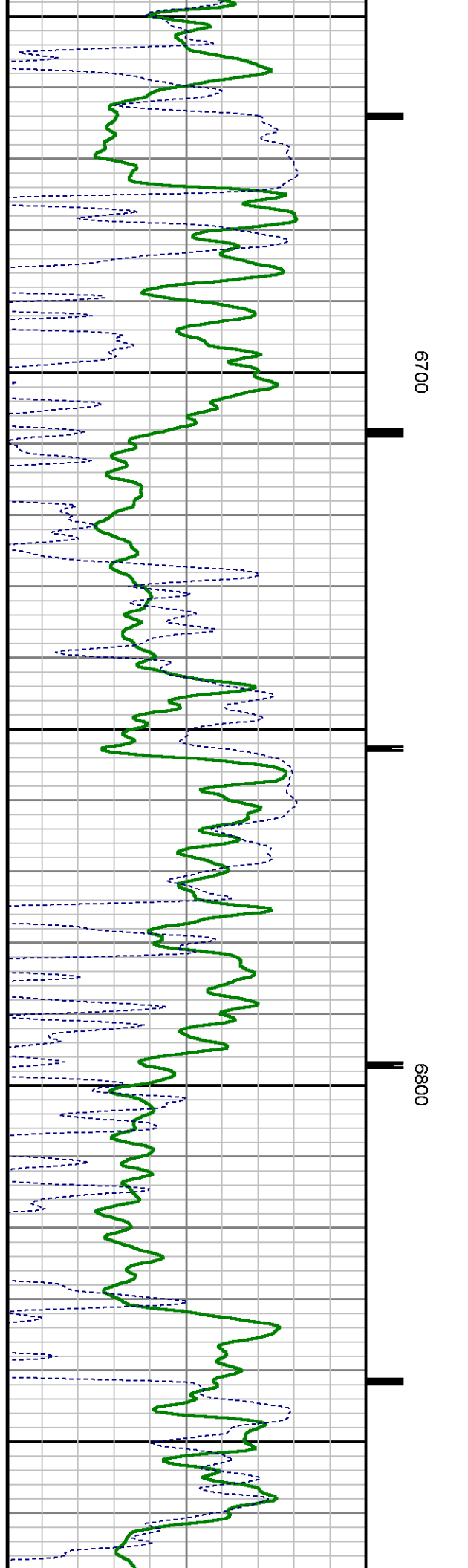
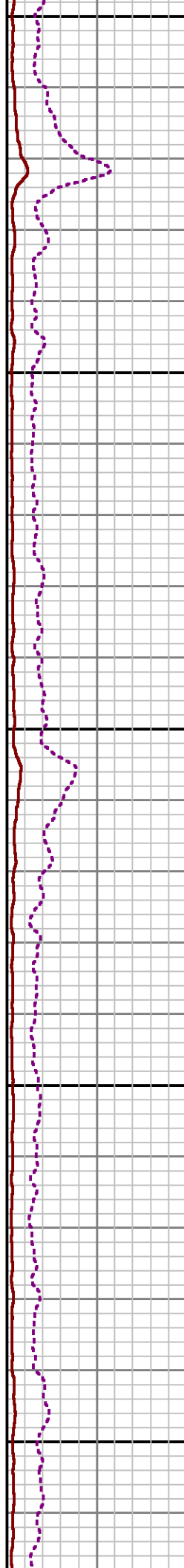
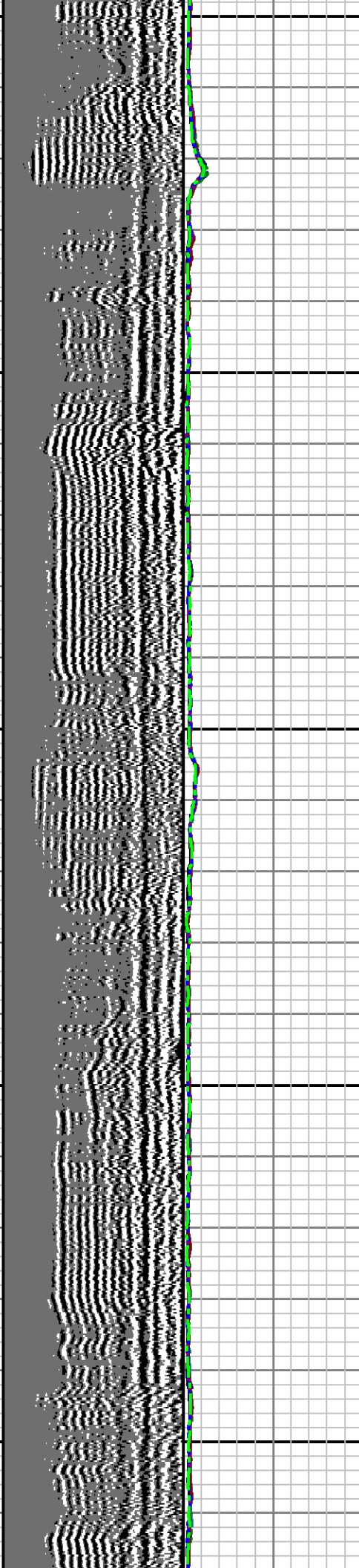
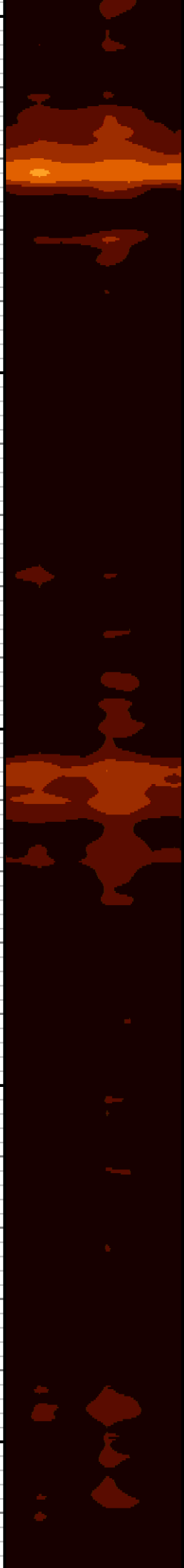


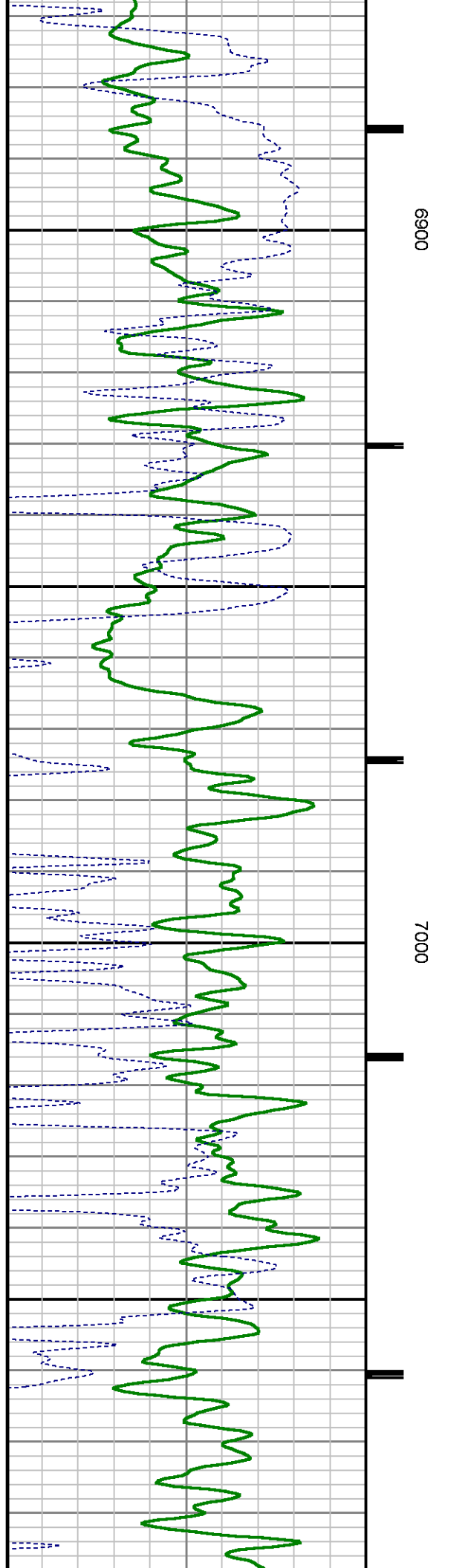
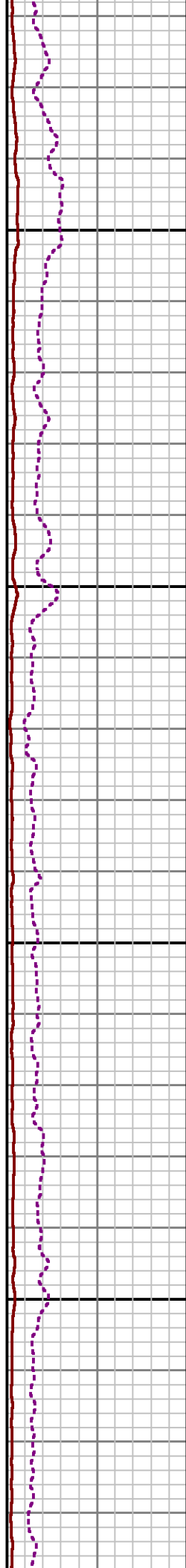
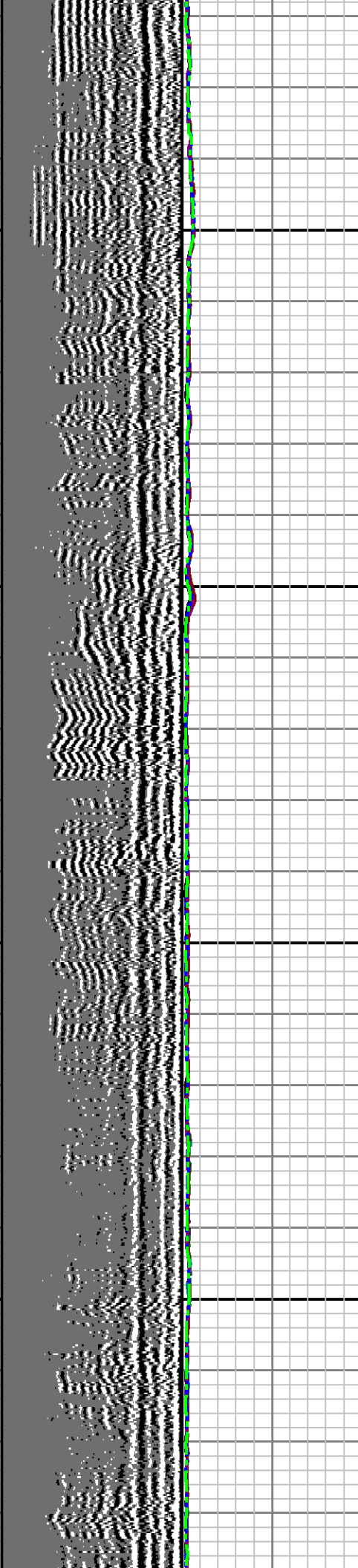


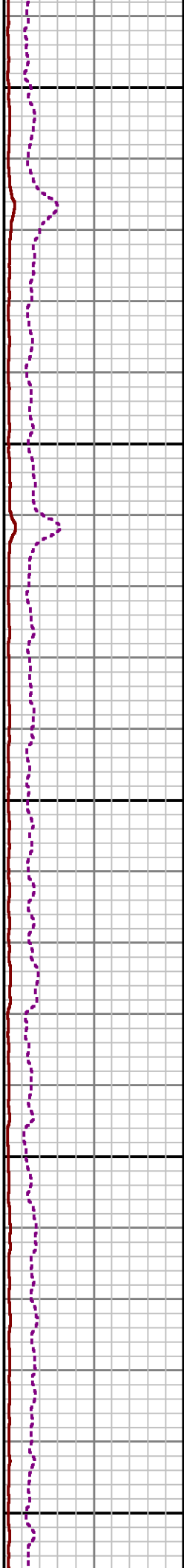
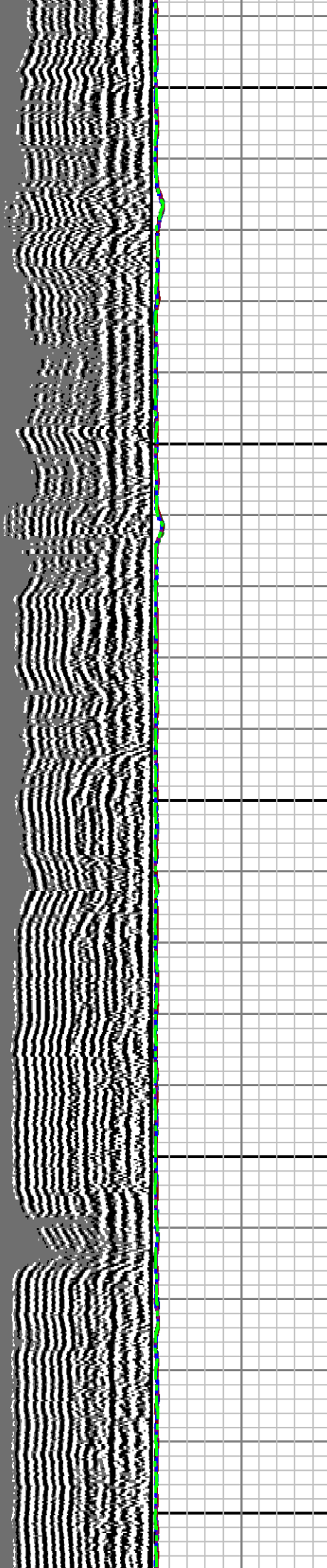
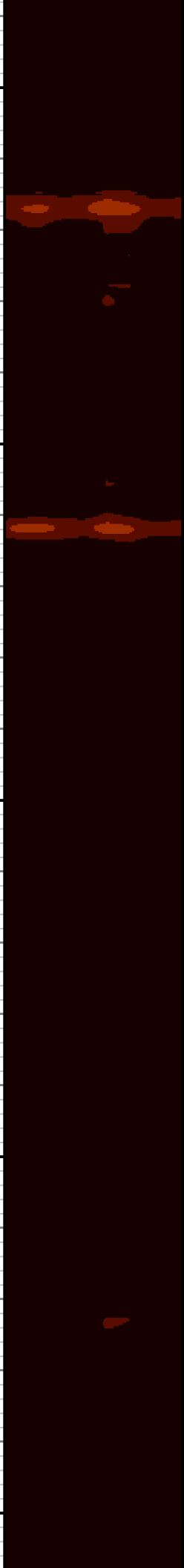








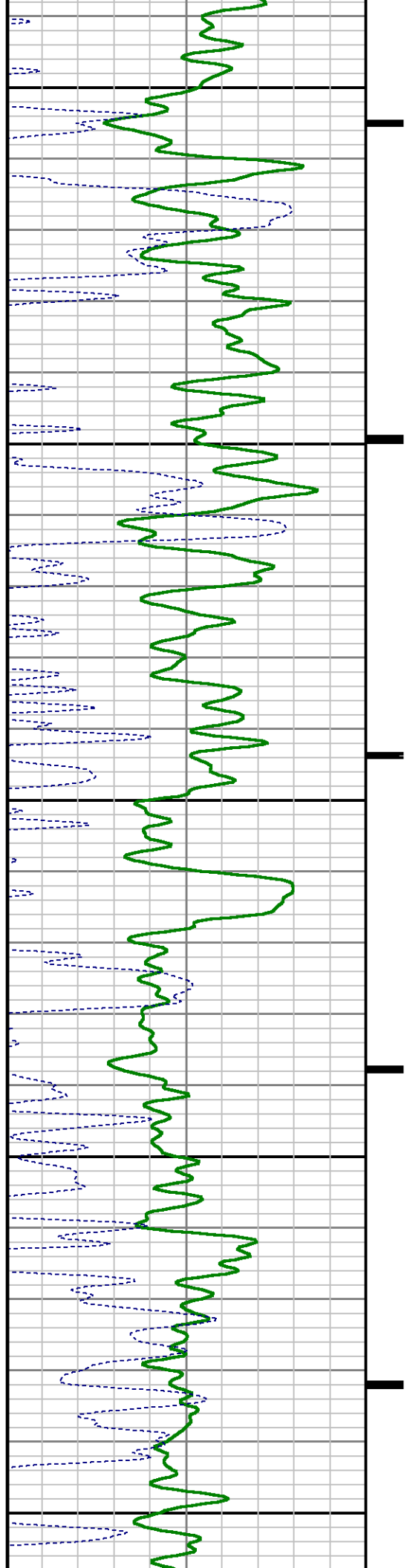


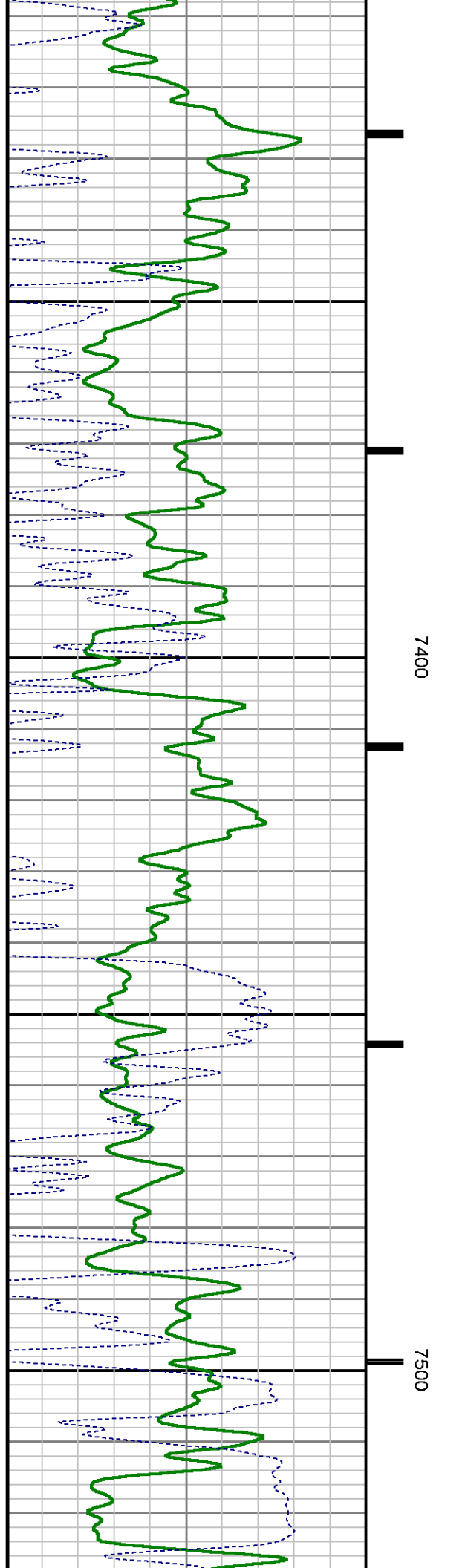
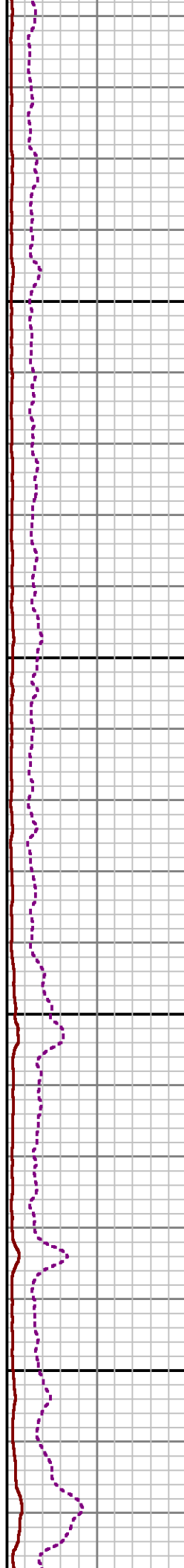
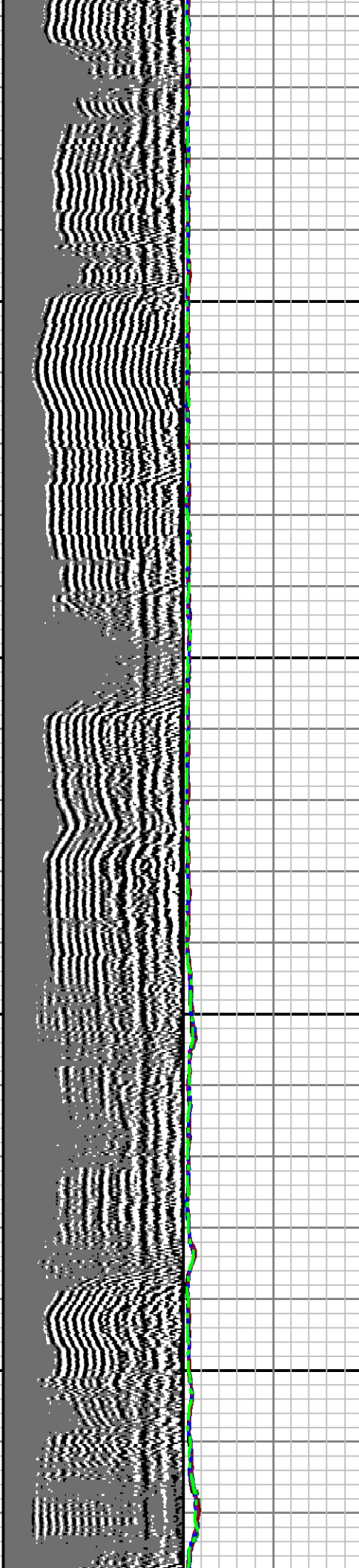


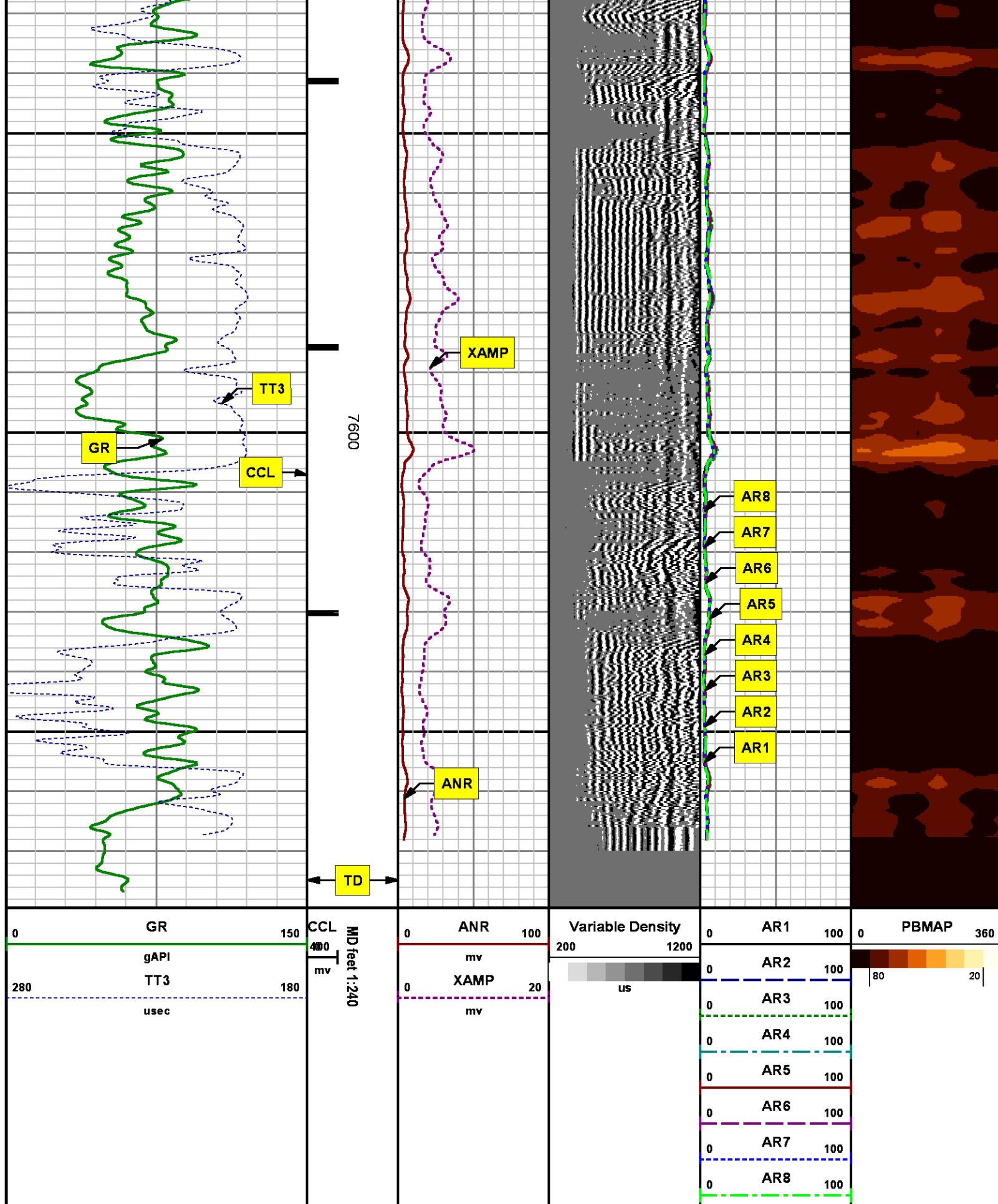
7100

7200

7300







REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	7355.020	7675.270
RAL	Amp Gate Start Near	195.000	usec	7355.020	7675.270
RAL	Amp Gate Start Radial	195.000	usec	7355.020	7675.270
RAL	Amp Gate Width Far	25.000	usec	7355.020	7675.270
RAL	Amp Gate Width Near	25.000	usec	7355.020	7675.270
RAL	Amp Gate Width Radial	25.000	usec	7355.020	7675.270
RAL	casing od	4.500	inches	7355.020	7675.270
RAL	casing wt	11.600	lbm/ft	7355.020	7675.270
RAL	FB Start Far	291.900	usec	7355.020	7675.270
RAL	FB Start Near	180.000	usec	7355.020	7675.270
RAL	FB Start Radial	180.000	usec	7355.020	7675.270
RAL	FB Thresh Far	10.000	mv	7355.020	7675.270
RAL	FB Thresh Near	4.000	mv	7355.020	7675.270
RAL	FB Thresh Radial	4.000	mv	7355.020	7675.270
RAL	Fluid Travel Time	200.000	usec/ft	7355.020	7675.113

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

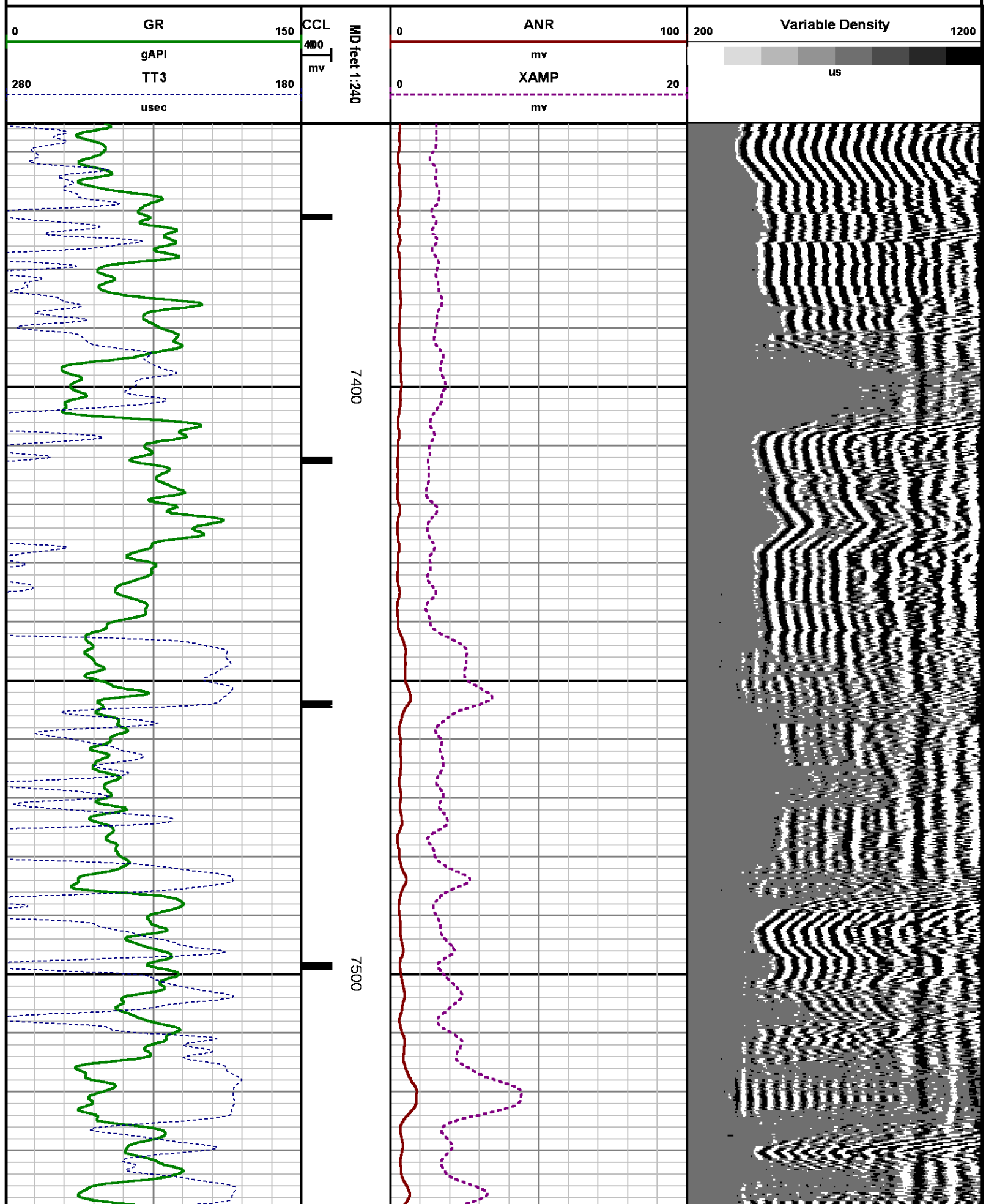
Company : WPX ENERGY

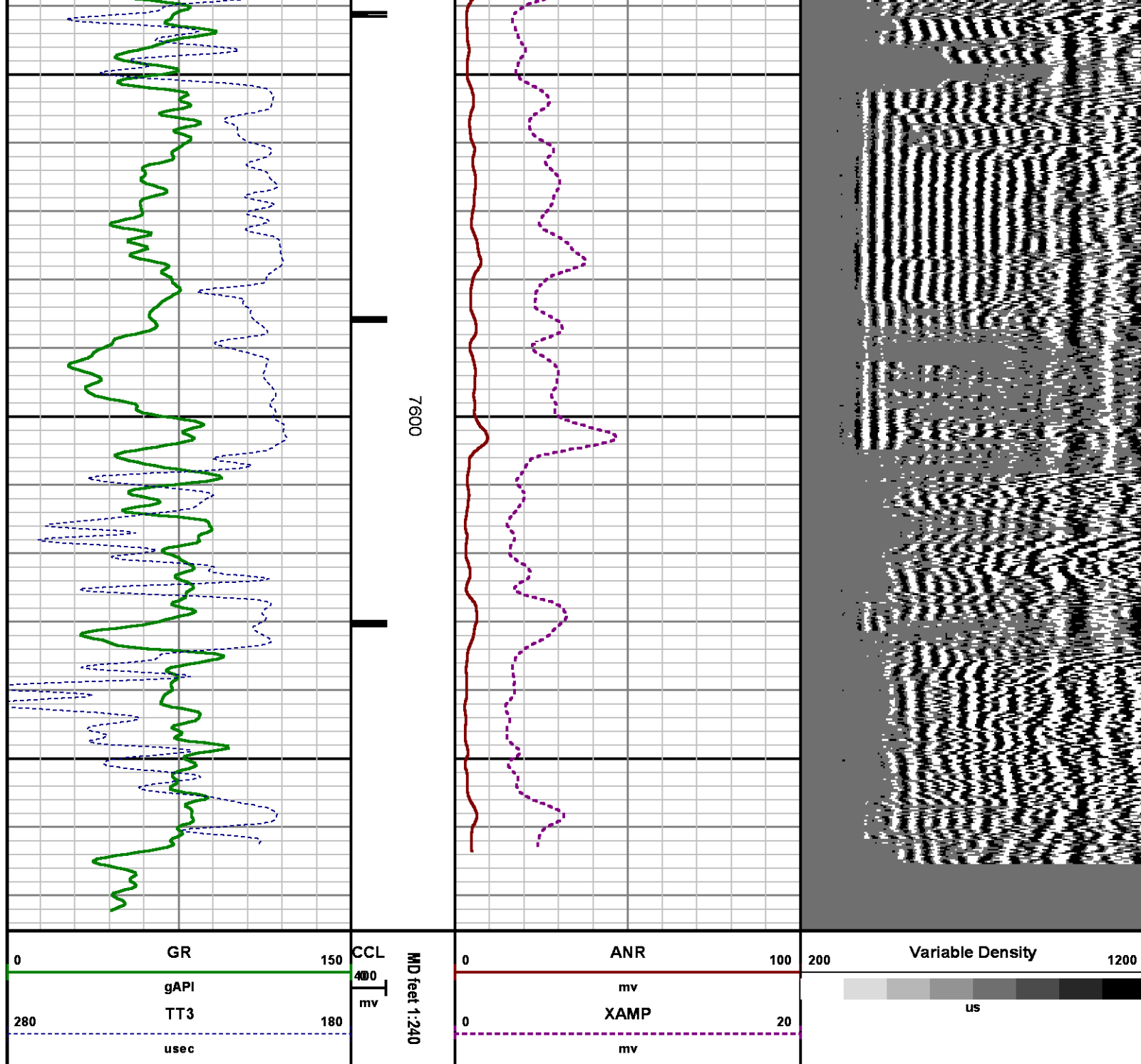
Well : C&C ENERGY GM 44-12

Mode : PlotMgr 5.4.504

Interval : 7355.27 - 7675.27 feet UP

Created : 9/6/2014 7:43:23 AM





CALIBRATION SUMMARY

RALSHP

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Sep 05 08:55:51 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: SEP5

Tool Delay [usec] -55.00 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	216	216	30	166	25	-0.104	100.00	0.31
3 Ft. Receiver	216	216	30	166	25	2.654	100.00	0.31
5 Ft. Receiver	325	325	30	245	25	-0.049	150.00	0.35
Radial #1	216	216	30	166	25	1.746	100.00	0.31
Radial #2	215	216	30	166	25	1.438	100.00	0.31
Radial #3	215	216	30	166	25	2.742	100.00	0.31
Radial #4	214	216	30	166	25	3.024	100.00	0.31
Radial #5	215	216	30	166	25	1.746	100.00	0.31
Radial #6	216	216	30	166	25	3.051	100.00	0.31
Radial #7	216	216	30	166	25	2.260	100.00	0.31
Radial #8	218	216	30	166	25	2.400	100.00	0.32

GAMMA RAY

Calibration File: C:\case\calver\GR\11871510A1.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\GR\11871510A1.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

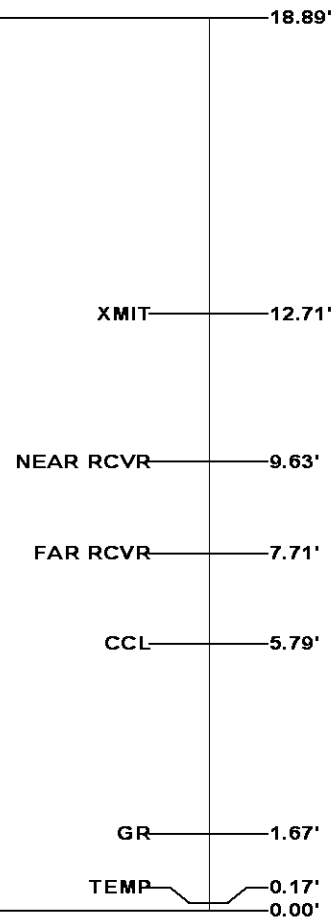
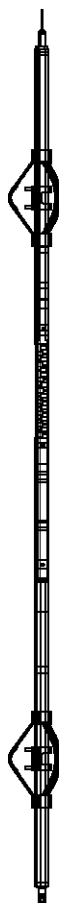
TOOL DIAGRAM

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****C&C ENERGY GM 44-12****Field****GRAND VALLEY****County****GARFIELD****State****COLORADO****Location****SHL: 267' FSL & 1054' FWL****BHT: 1167' FSL & 879' FEL (SESE)****Elevations****KB 5165 ft****DF****GL 5141 ft****File No:****CH089913****API No:****05045224300000****12 7S 96W****GM 24-12 PAD****H&P 318****SEC****12****TWP****7S****RGE****96W**