



RADIAL ANALYSIS BOND LOG

Baker Atlas

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

CH085276 **Well** **PA 311-7**

API No: **Field** **PARACHUTE**

0504522250000 **County** **GARFIELD** **State** **COLORADO**

Location

SHL: 741' FSL & 755' FWL 6 7S 95W

BHL: 148' FNL & 593' FWL (NNWNW) 7S 95W

SEC 7 TWP 7S RGE 95W

Other Services

RPM

Permanent Datum **GL** **Elevation** **5153 ft**

Log Measured From **KB** **26 ft** **Above P. D.**

Drill Measured From **KELLY BUSING**

Elevations

KB 5179 ft

DF

GL 5153 ft

Date	03/MAY/14	
Run	ONE	
Service Order	US085276J	
Depth Driller	6547 ft	
Depth Logger	6512 ft	
Bottom Logged Interval	6502 ft	
Top Logged Interval	26 ft	
Time Started	0700	
Time Finished	1000	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	65 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	65 fpm	
Maximum Recorded Temperature	211 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	Location	GRAND UCT
Recorded By	FLOYD RENEAU	
Witnessed By	CHRIS TILLER	

- 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	26 ft	1016 ft
8.75 in	1016 ft	6547 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			26 ft	1016 ft
4.5 in	11.6 lbm/ft	I-80	26 ft	6547 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 11 feet.
Logged with zero PSI at wellhead.
BHT = 211 °F
SJ = 2892'-2915'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218496	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	35.818	6513.000
RAL	Amp Gate Start Near	195.000	usec	35.818	6513.000
RAL	Amp Gate Start Radial	195.000	usec	35.818	6513.000
RAL	Amp Gate Width Far	25.000	usec	35.818	6513.000
RAL	Amp Gate Width Near	25.000	usec	35.818	6513.000
RAL	Amp Gate Width Radial	25.000	usec	35.818	6513.000
RAL	casing od	4.500	inches	35.818	6513.000
RAL	casing wt	11.600	lbm/ft	35.818	6513.000
RAL	FB Start Far	291.900	usec	35.818	6513.000
RAL	FB Start Near	180.000	usec	35.818	6513.000
RAL	FB Start Radial	180.000	usec	35.818	6513.000
RAL	FB Thresh Far	10.000	mv	35.818	6513.000
RAL	FB Thresh Near	4.000	mv	35.818	6513.000
RAL	FB Thresh Radial	4.000	mv	35.818	6513.000
RAL	Fluid Travel Time	200.000	usec/ft	35.818	6513.850

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
AFAR	SIG	TT5			
CCL					
GR					
NEU					

Plotted by : PlotMgr, v5.4.504

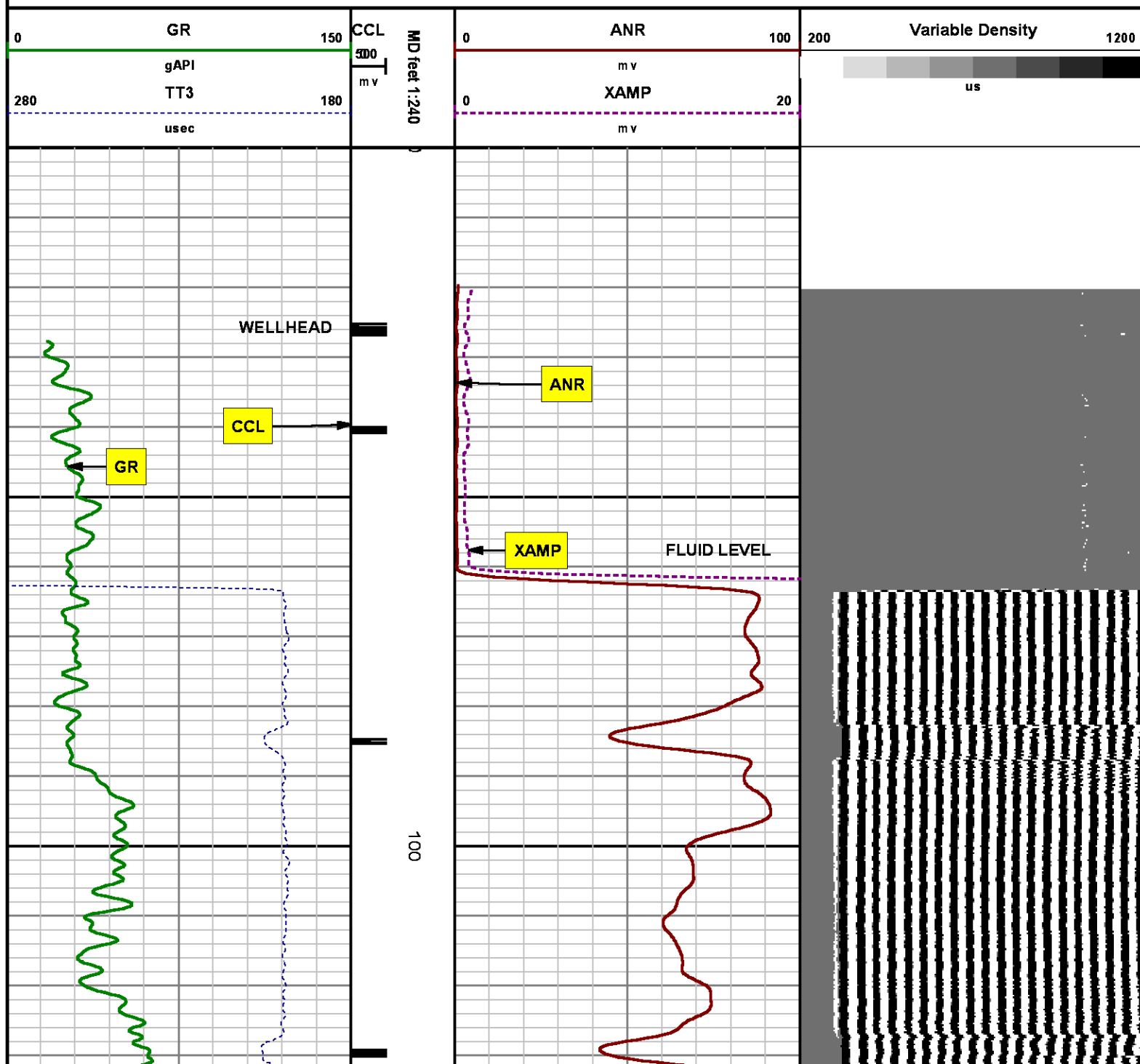
Well : PA 311-7

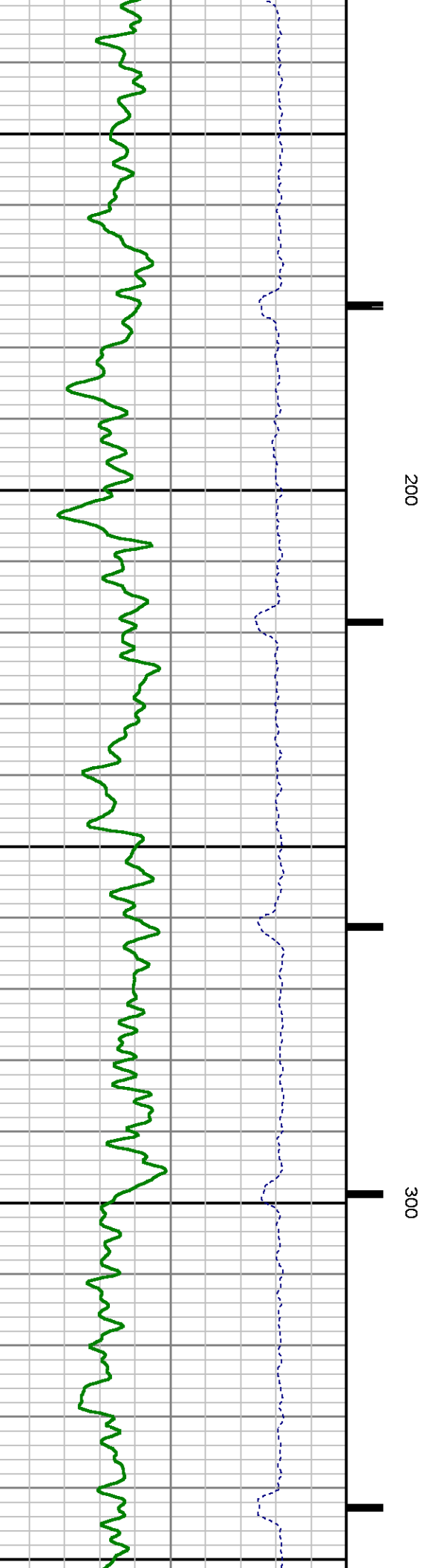
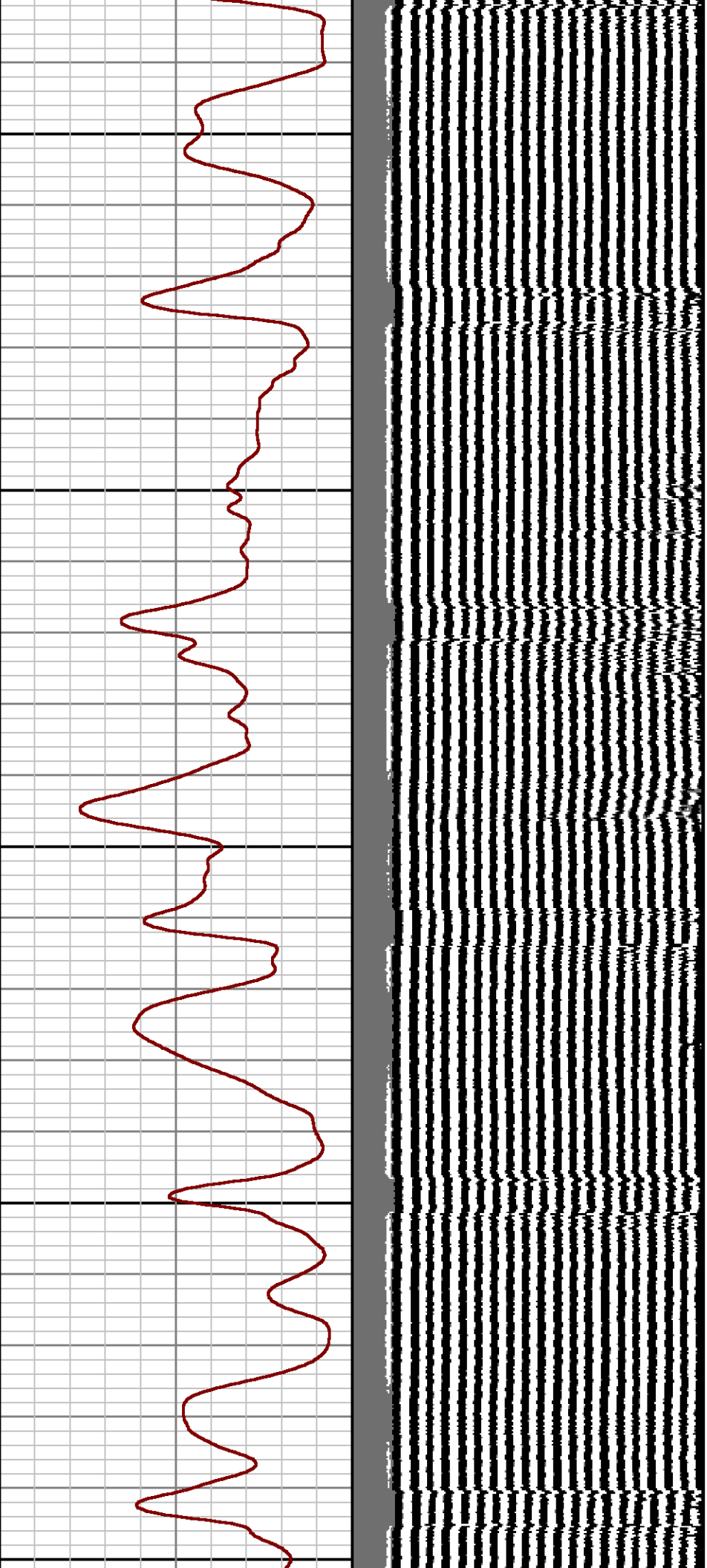
File Name : d:\welldata\wpx\pa 311-7\311ra\main.xtf

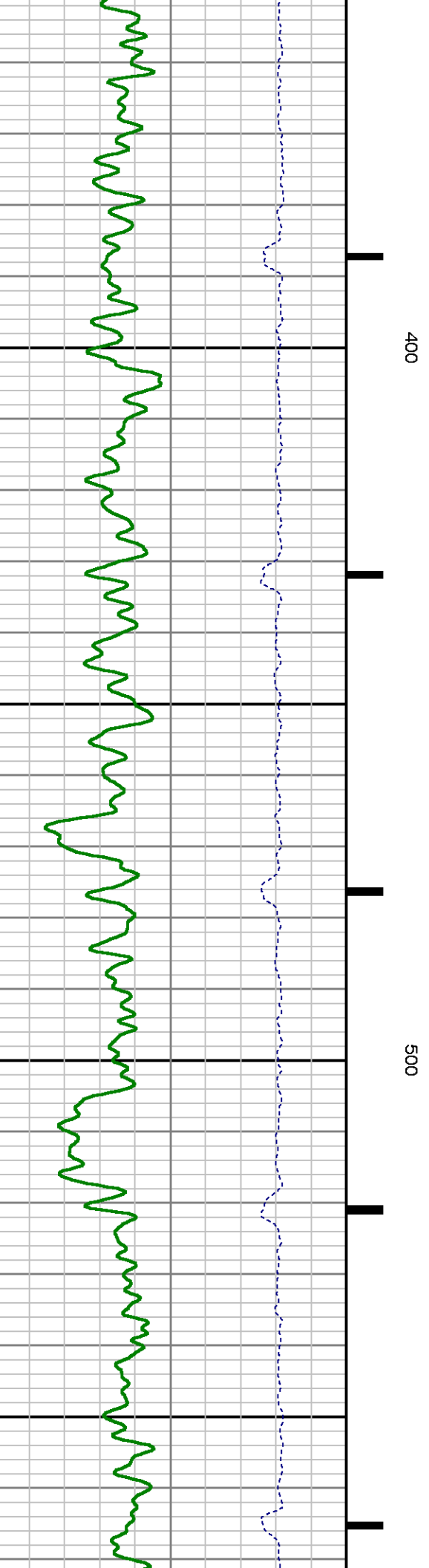
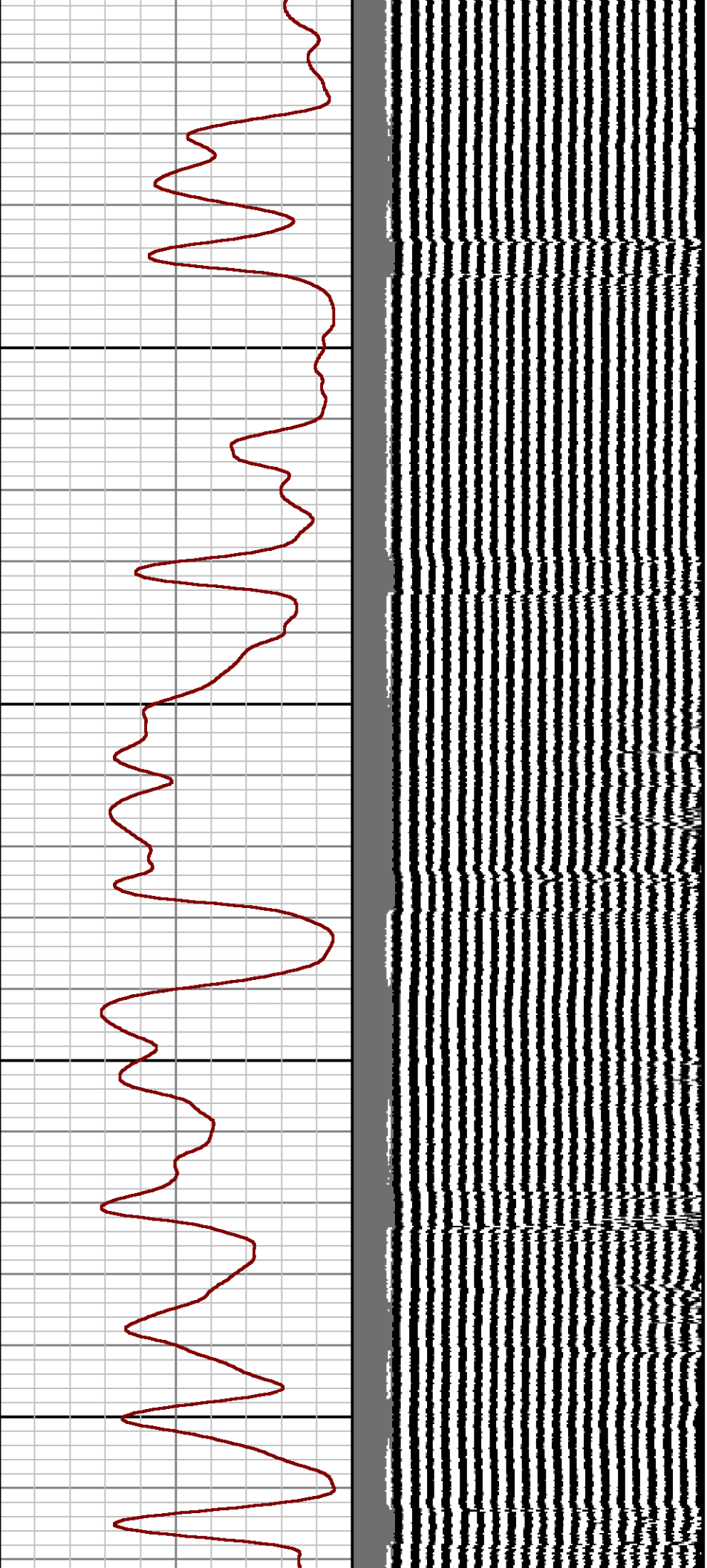
Mode : PlotMgr 5.4.504

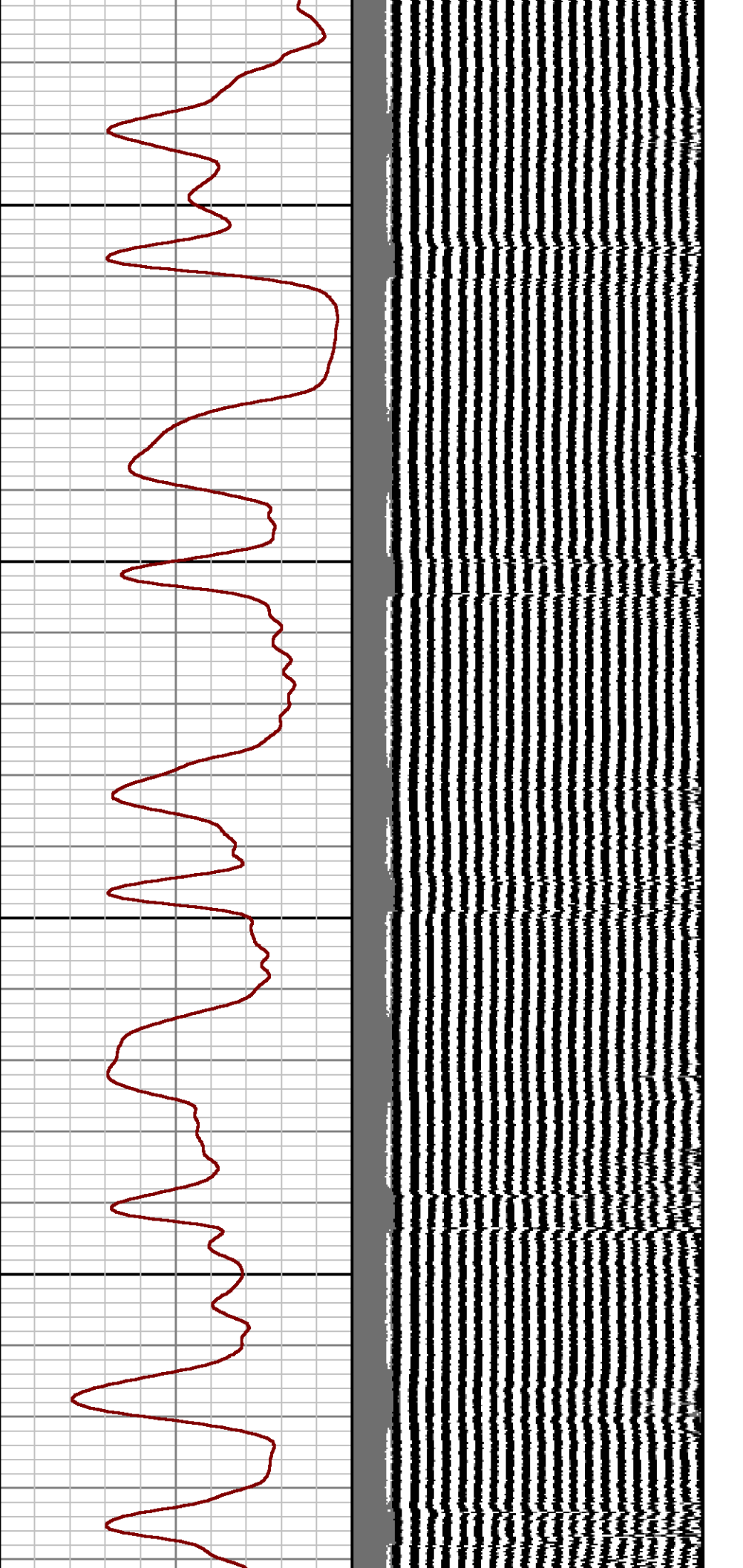
Interval : 0.00 - 6515.00 feet UP

Created : 5/3/2014 10:48:31 AM



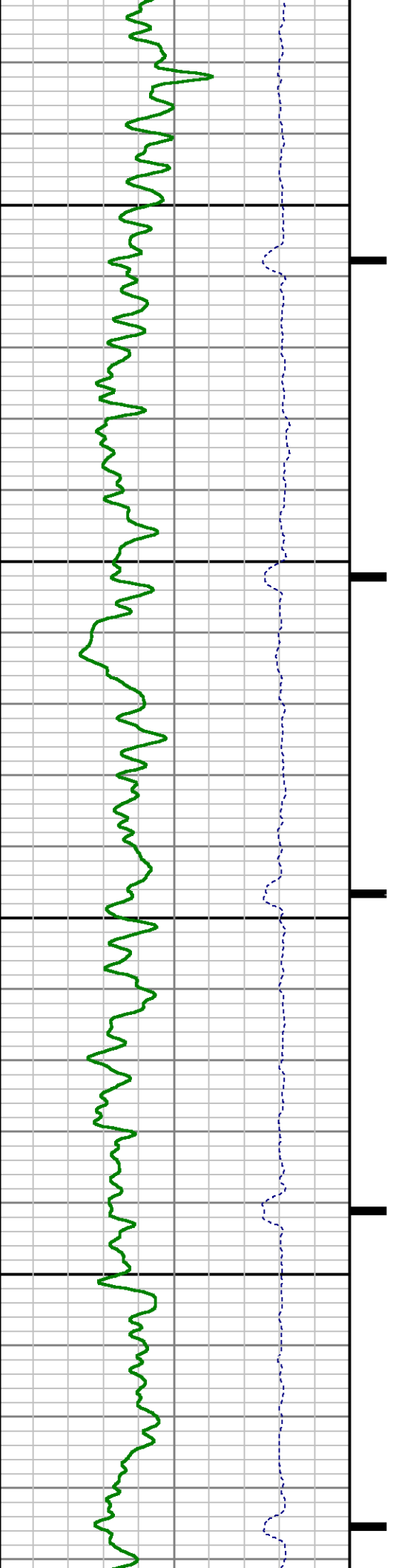


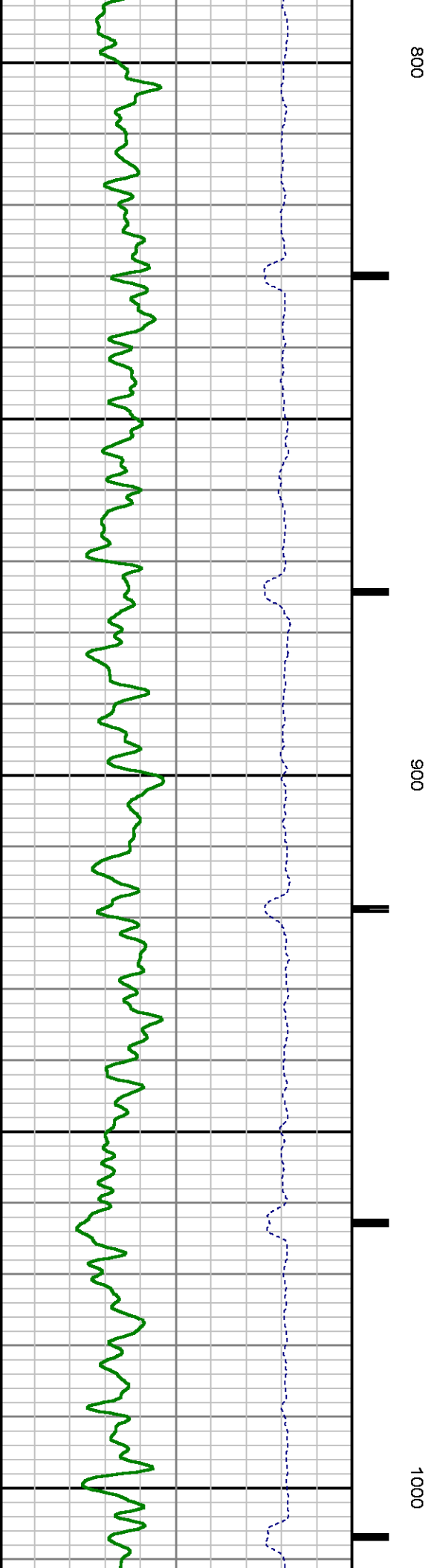
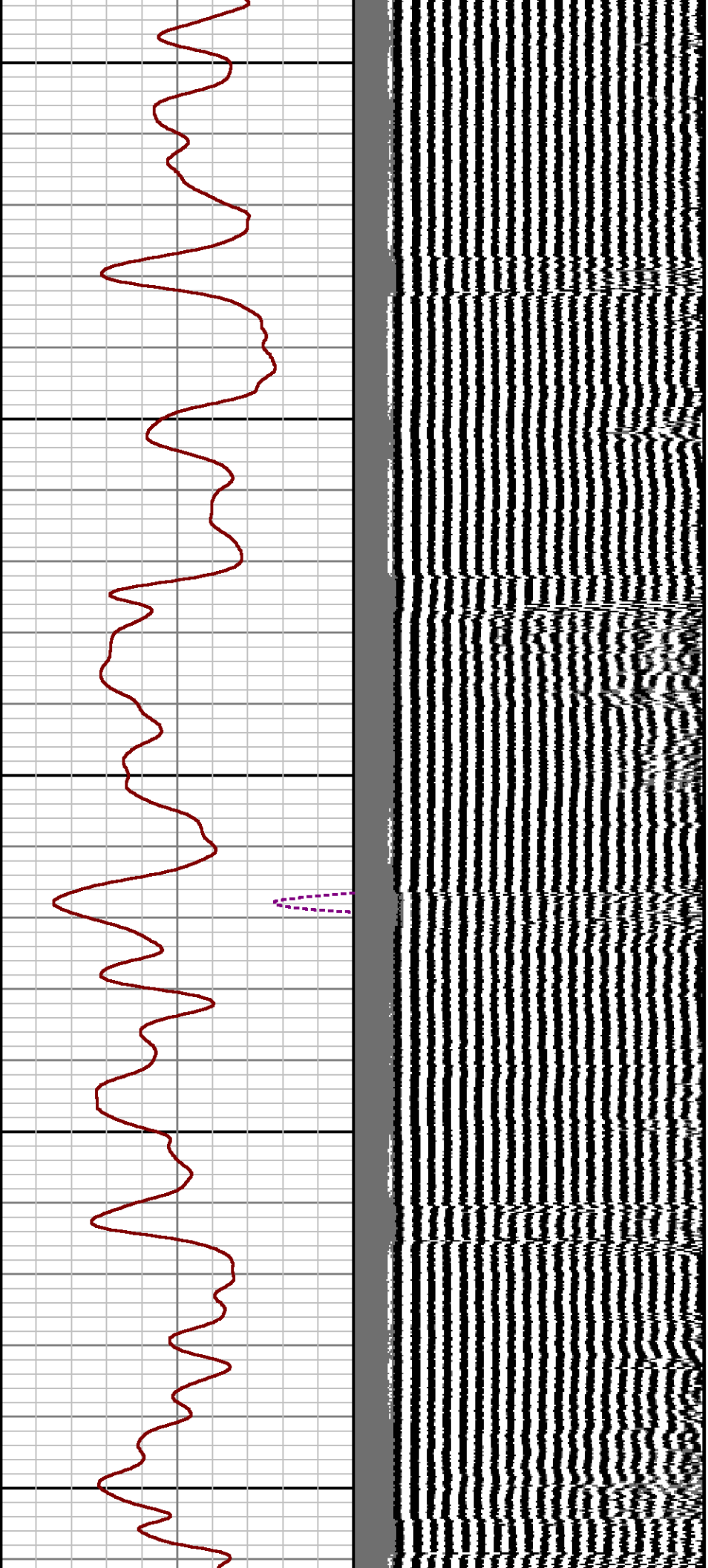


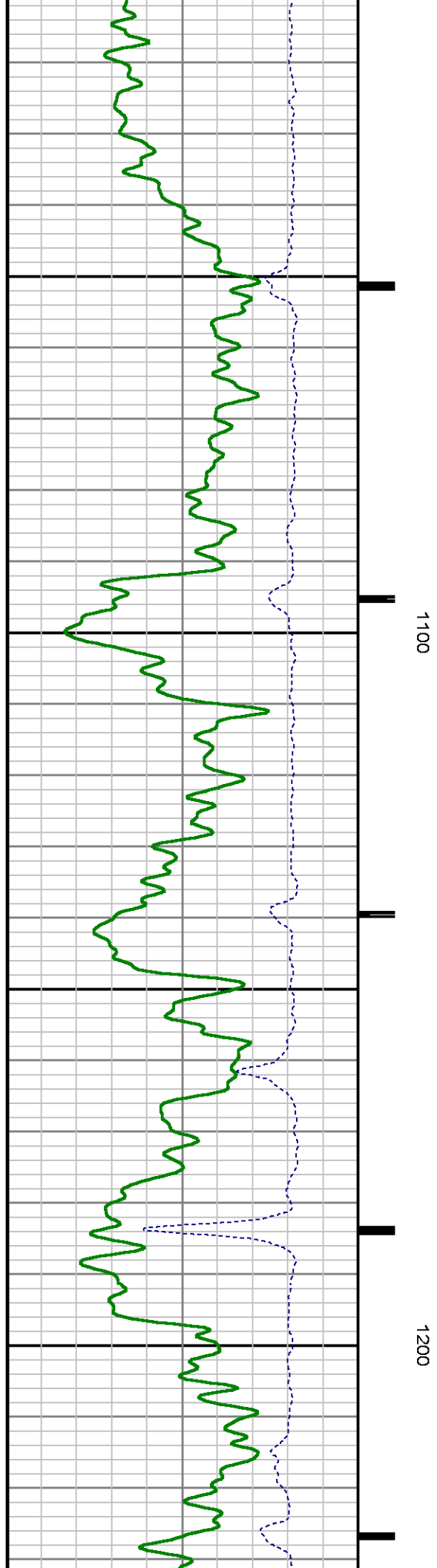
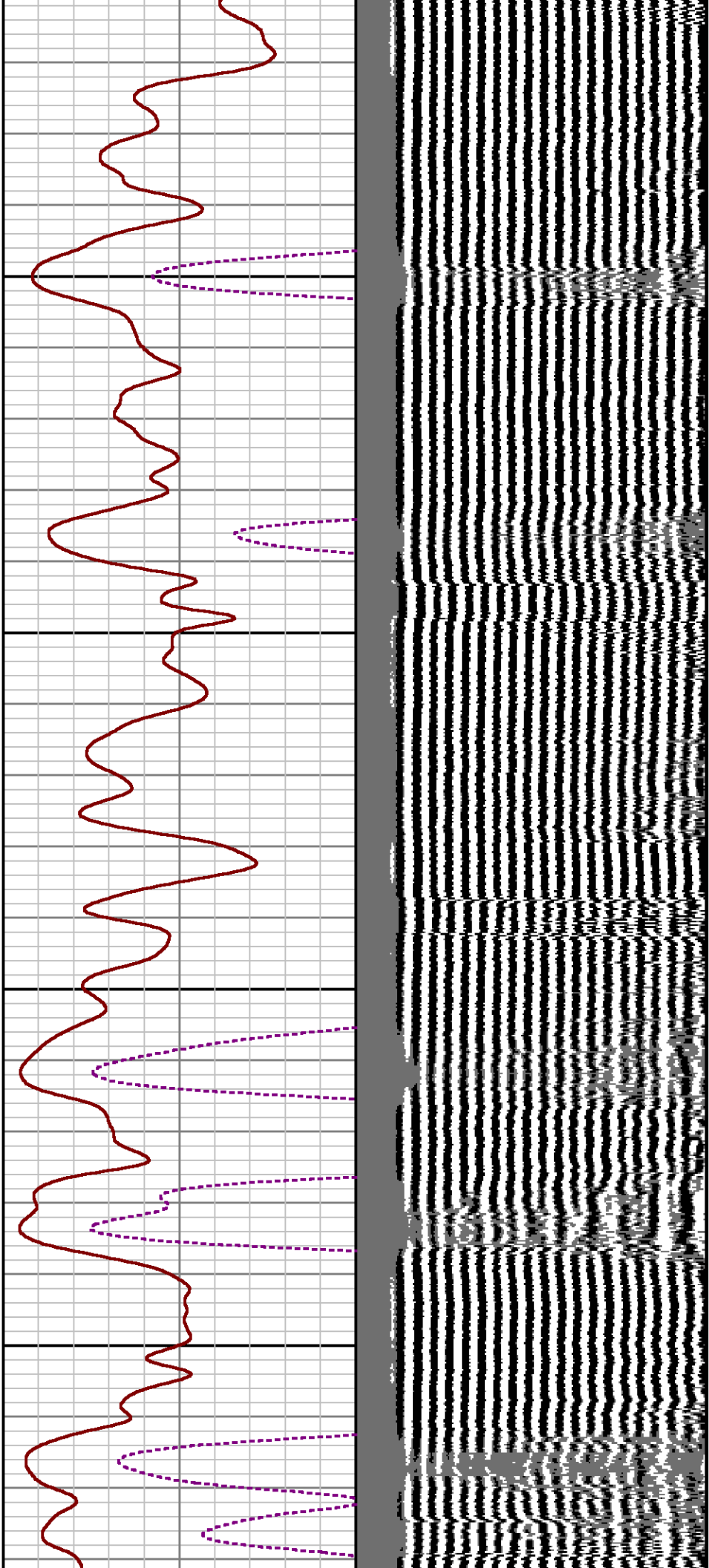


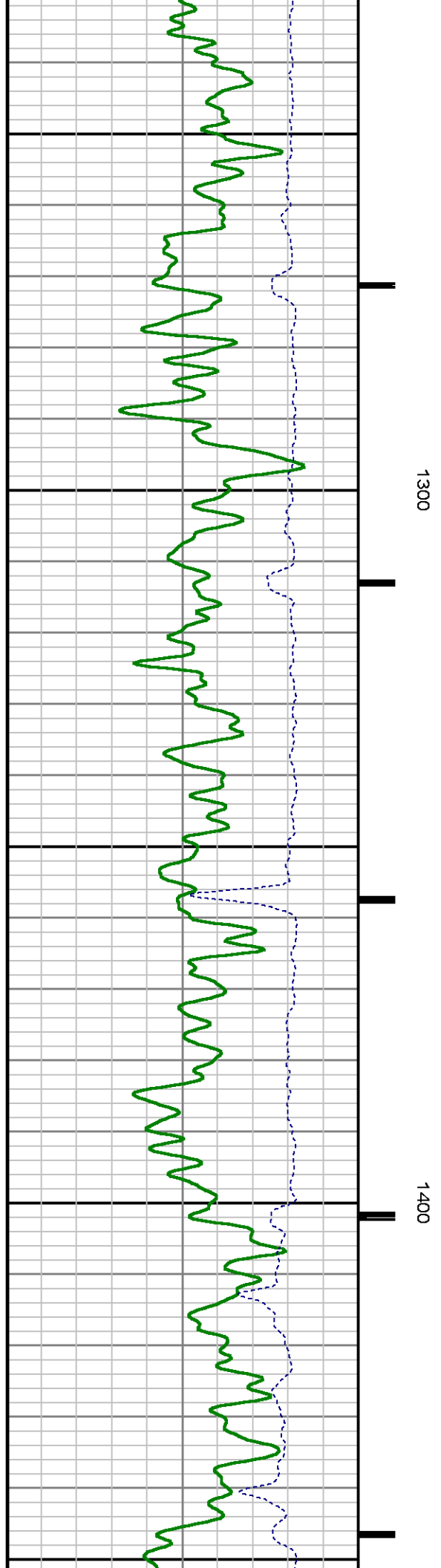
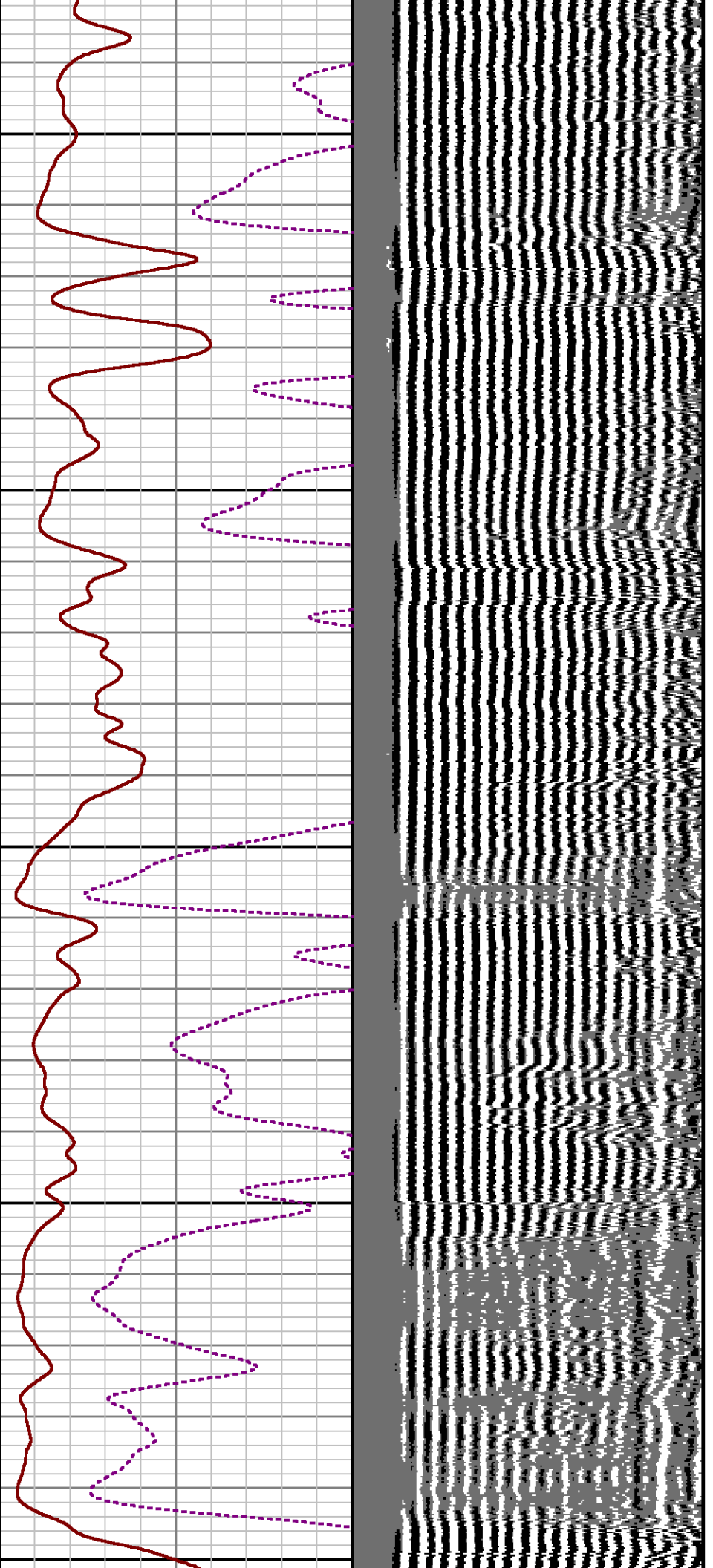
600

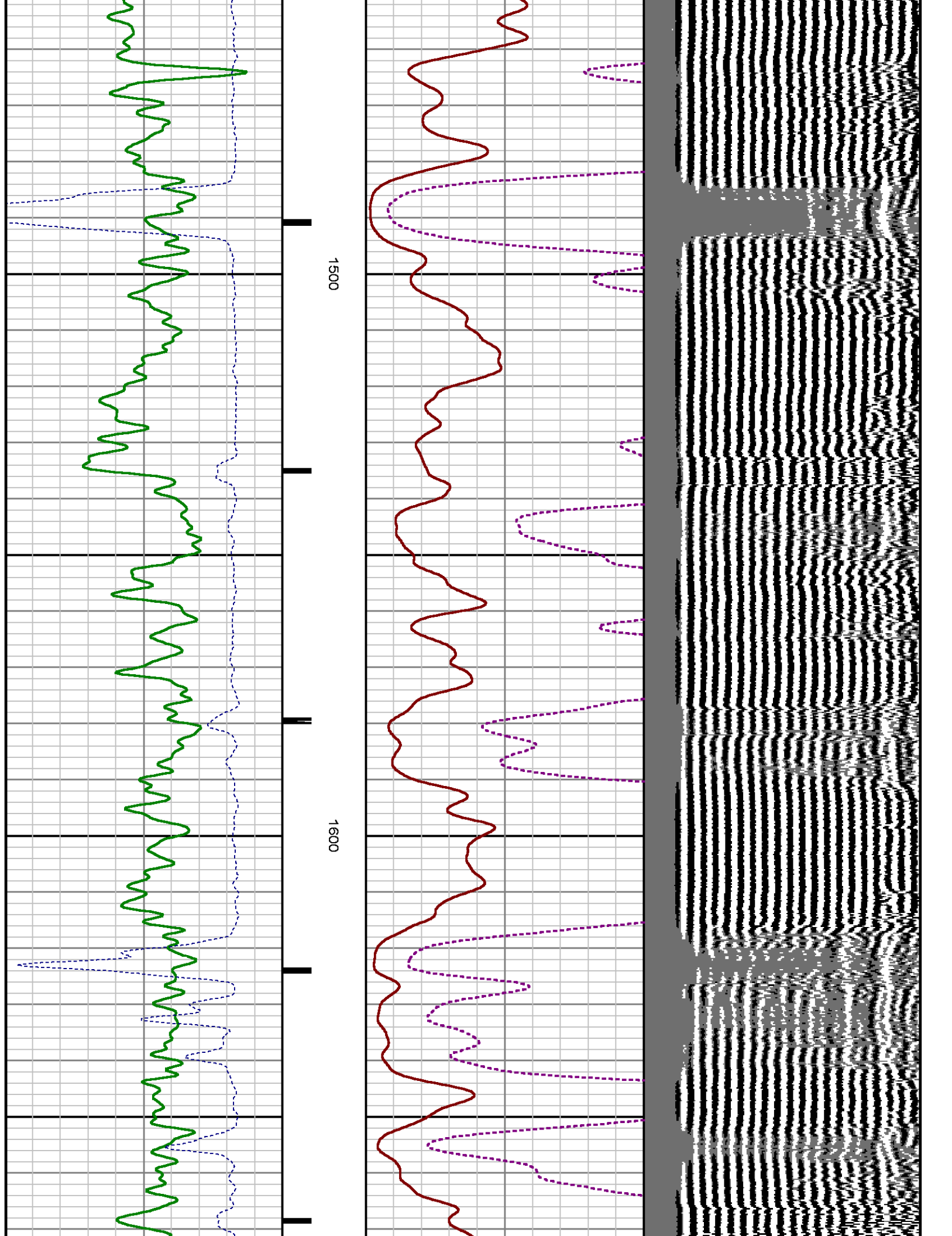
700

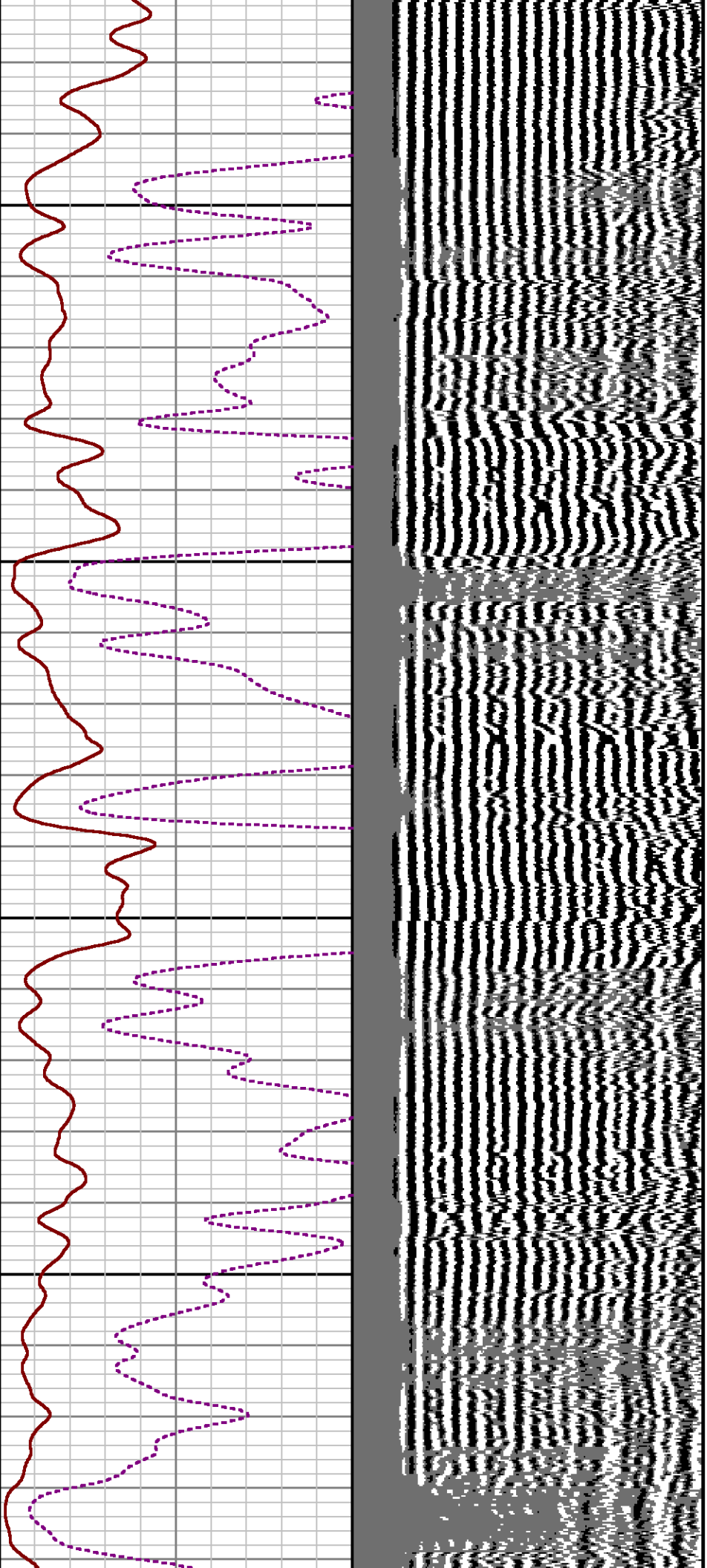






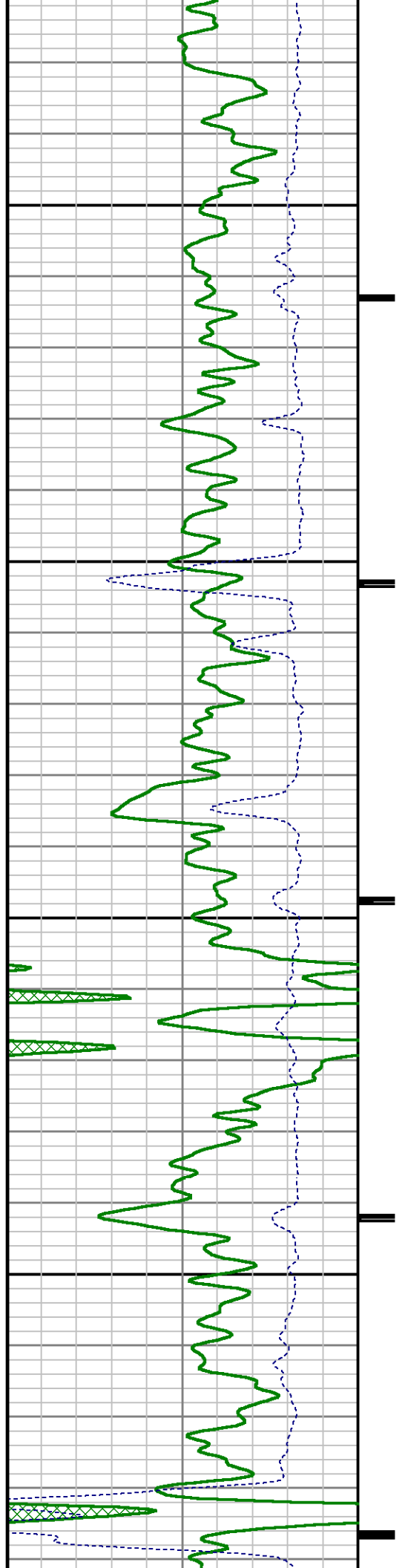


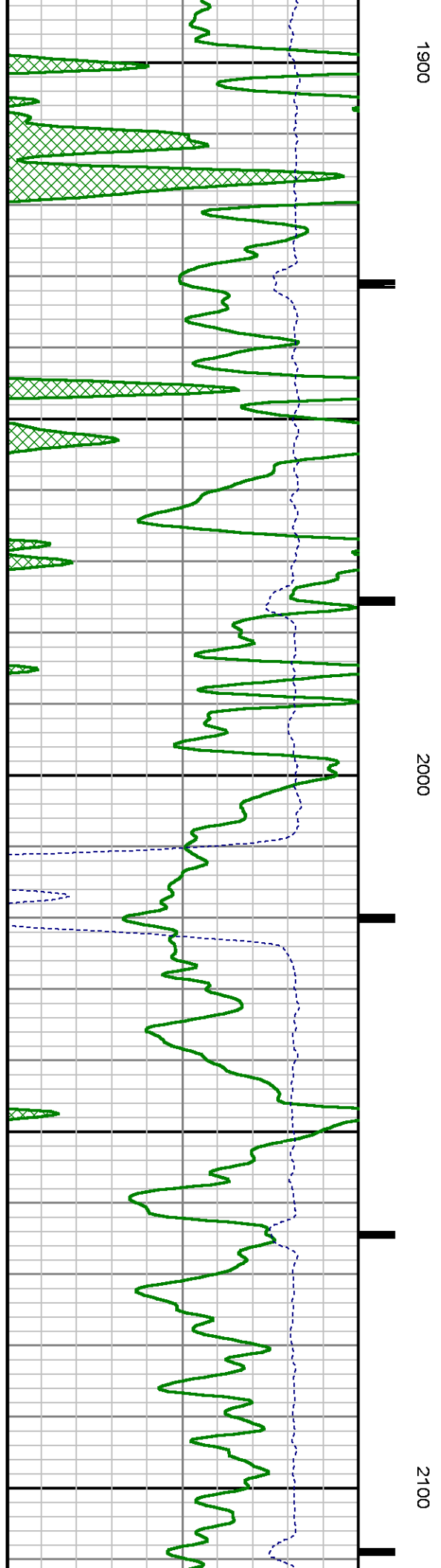
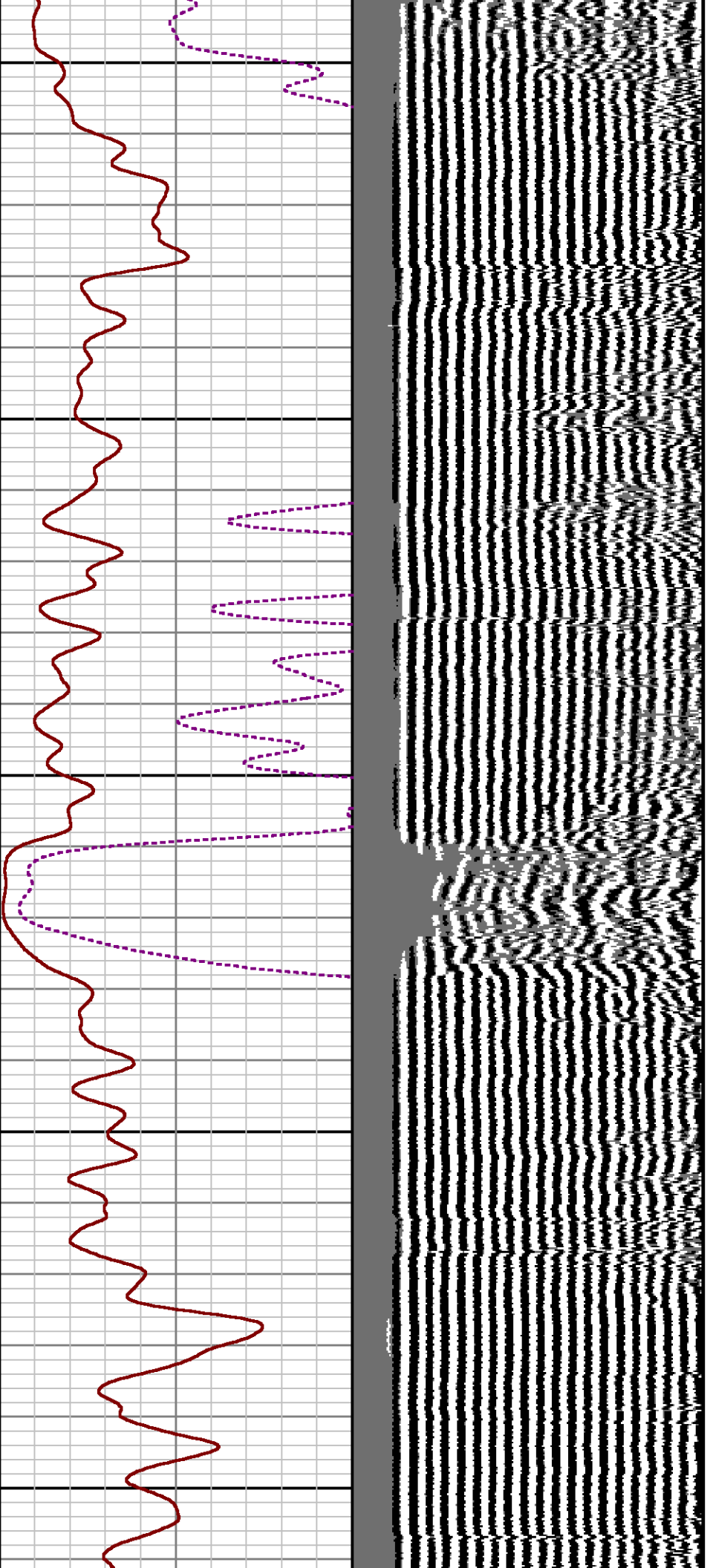


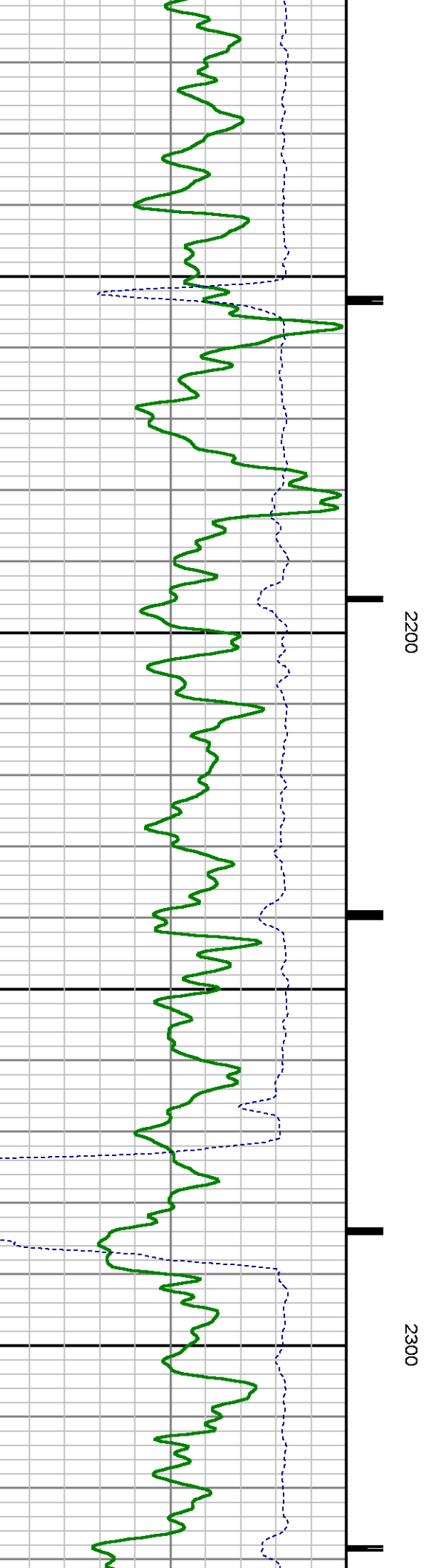
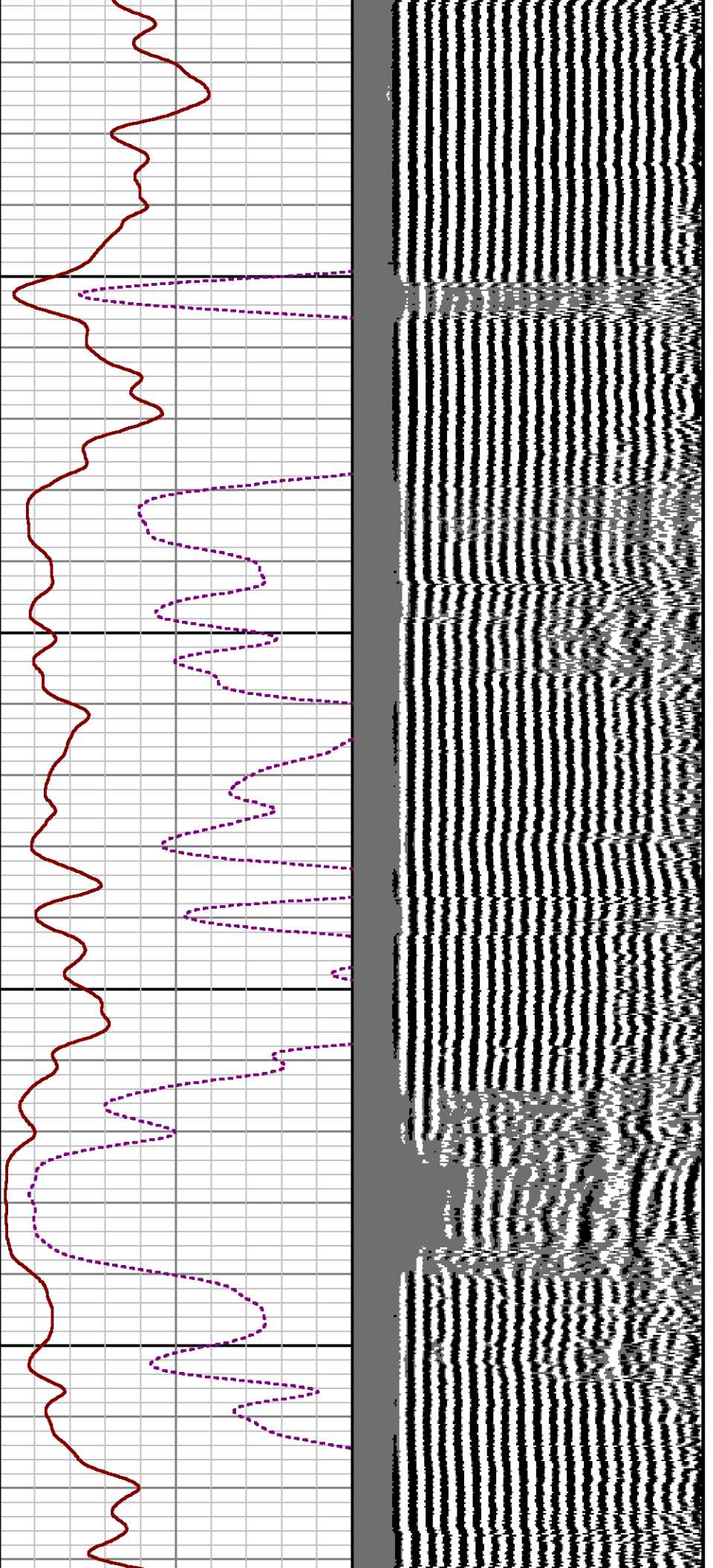


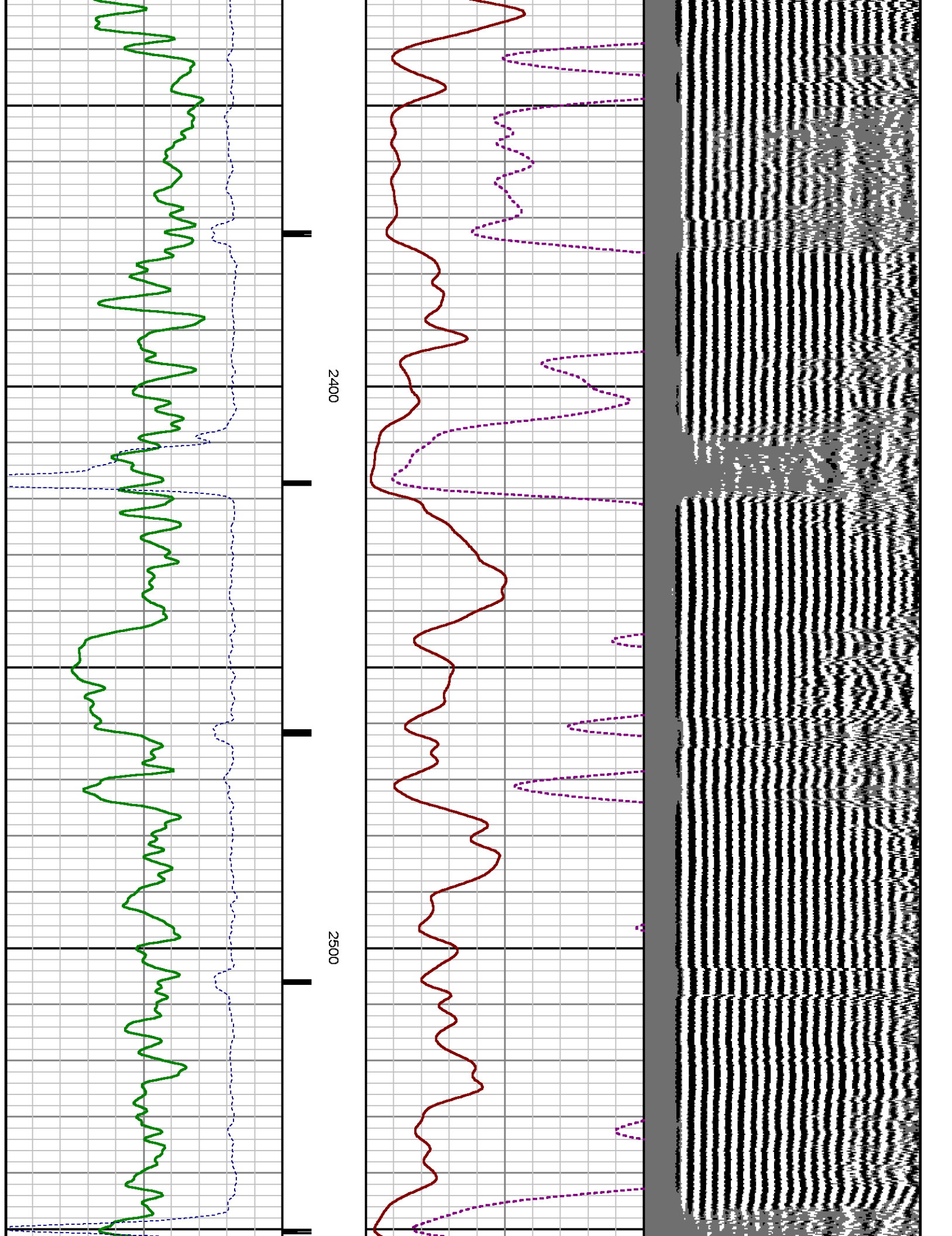
1700

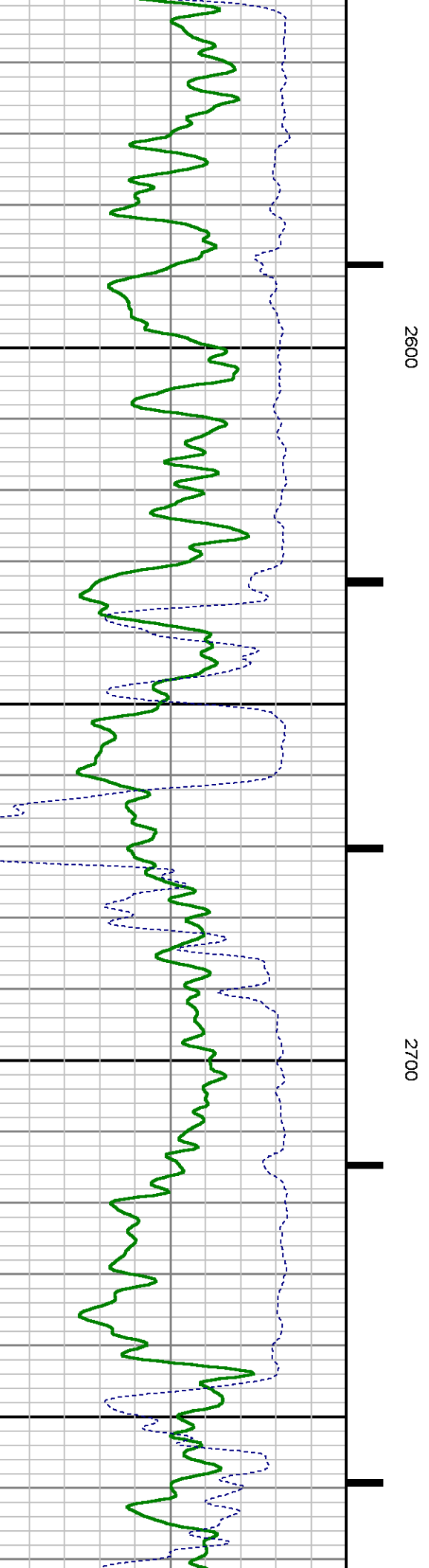
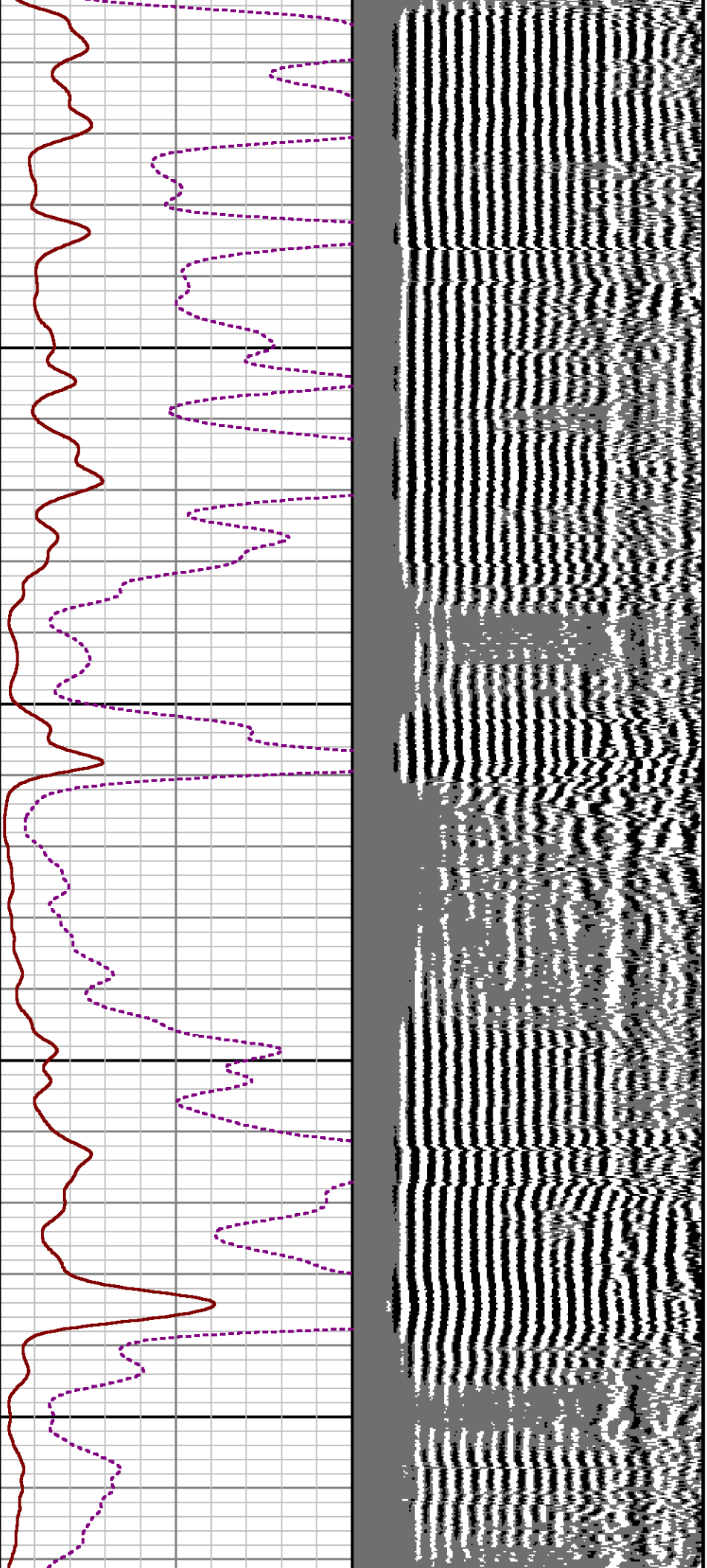
1800

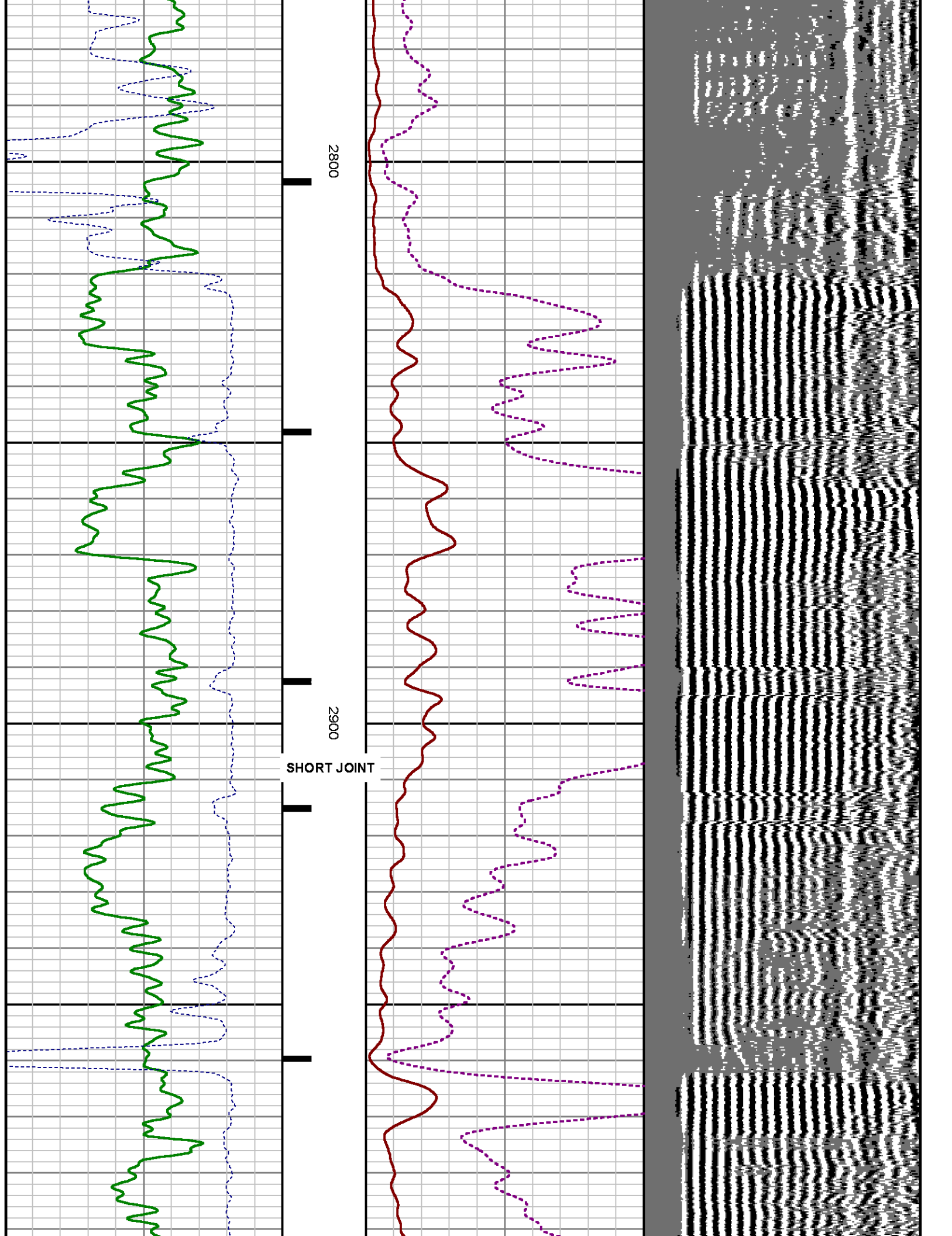


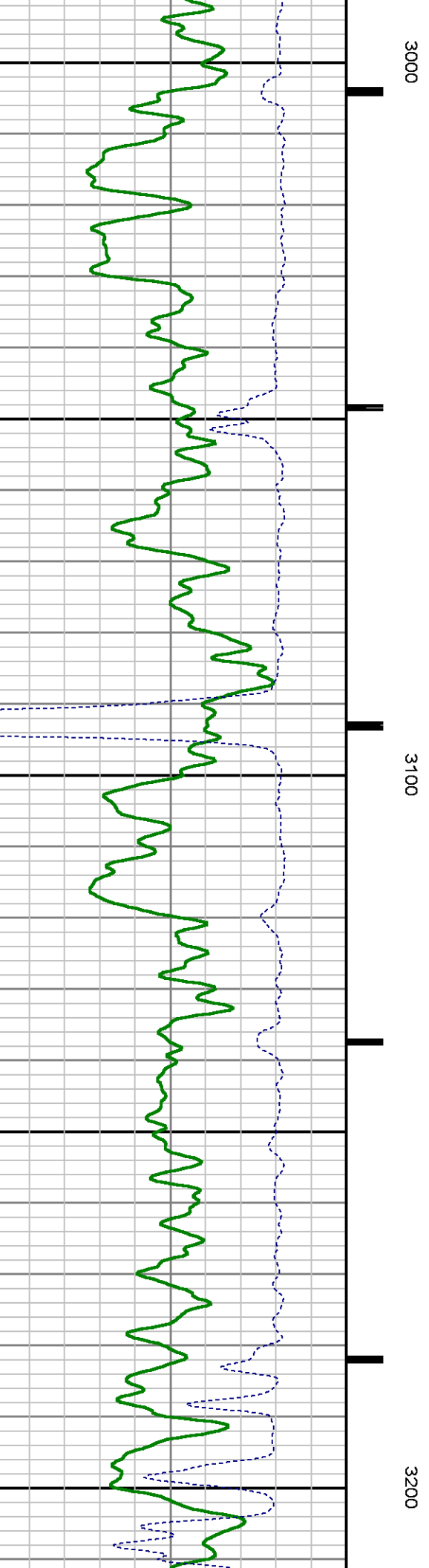
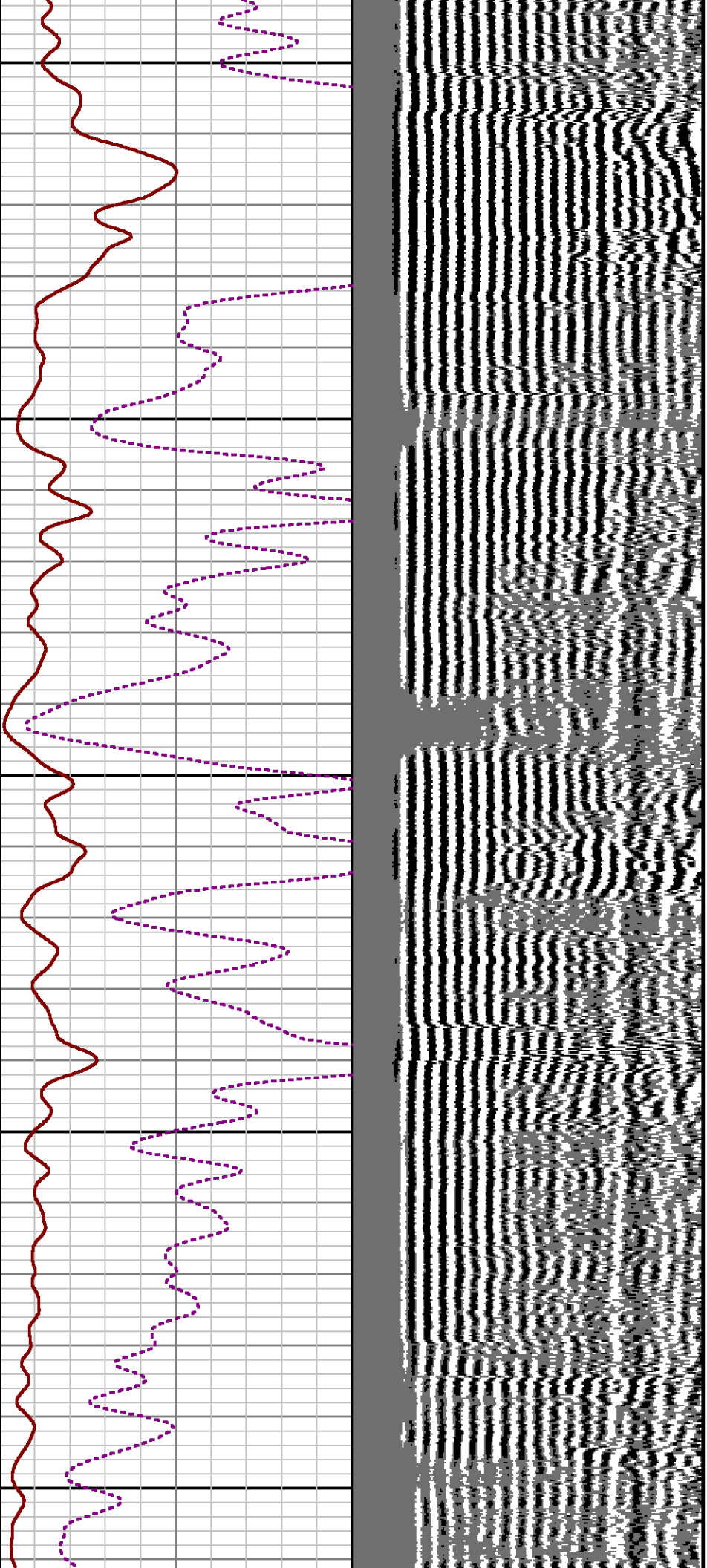


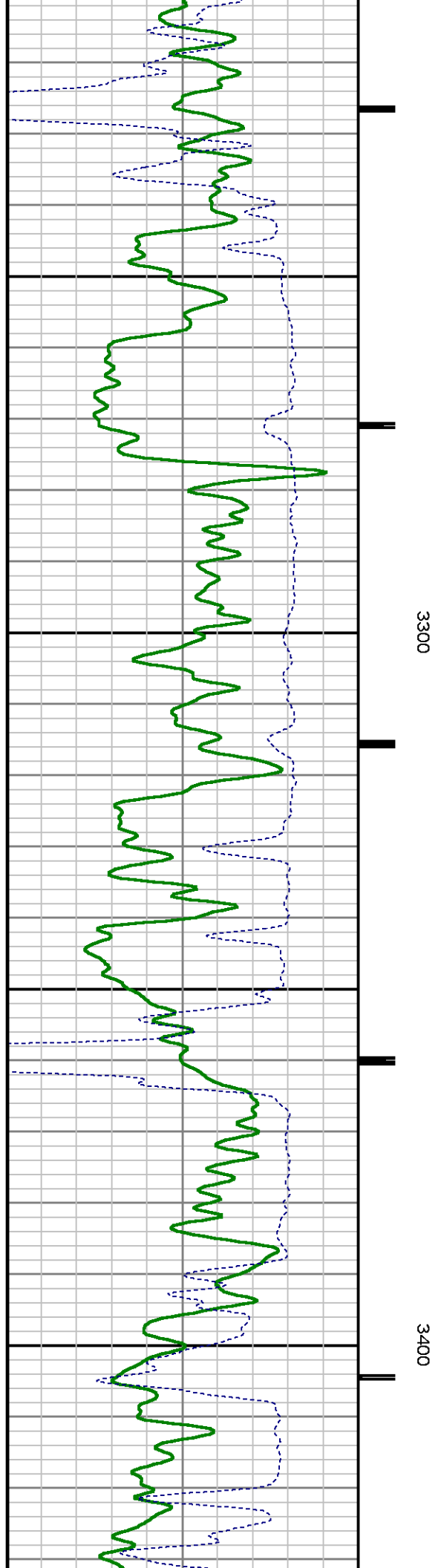
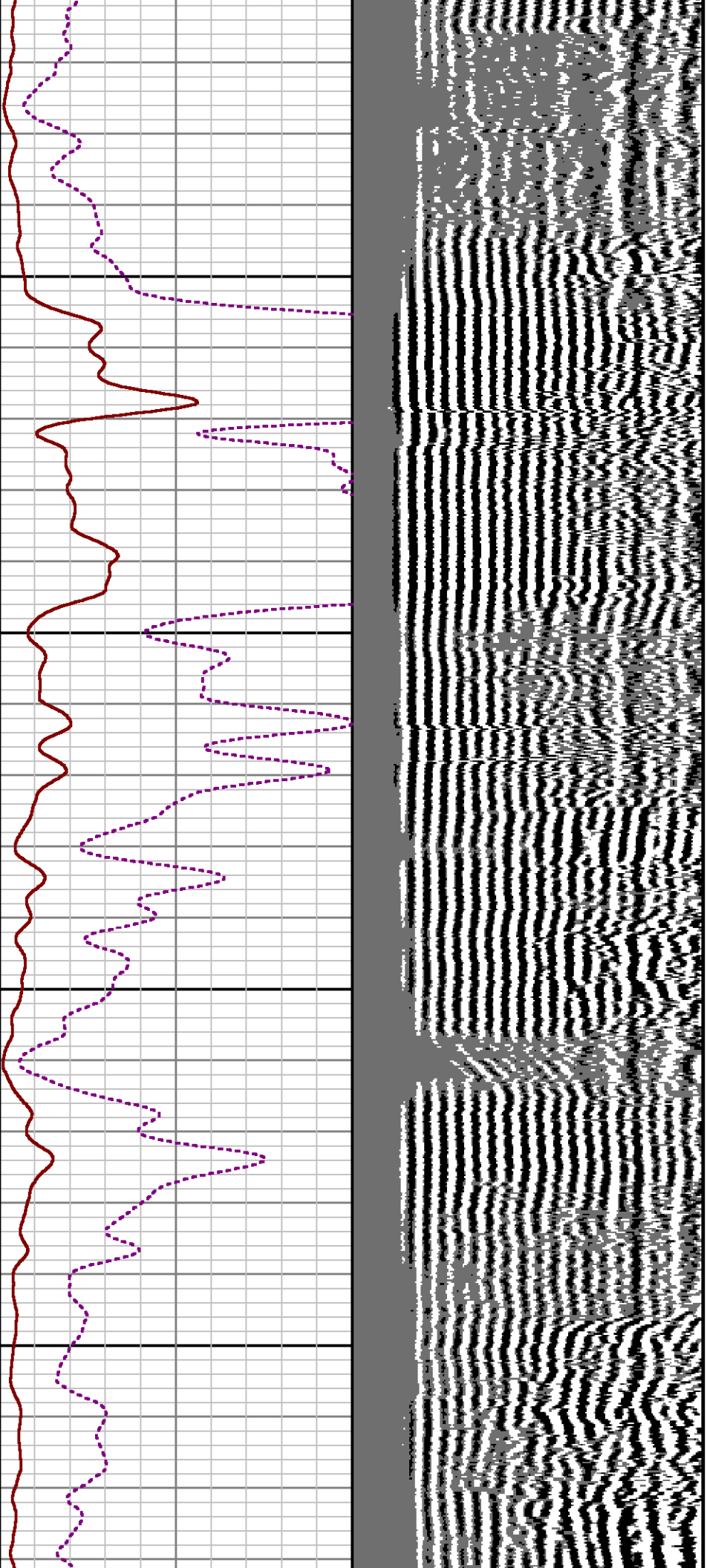


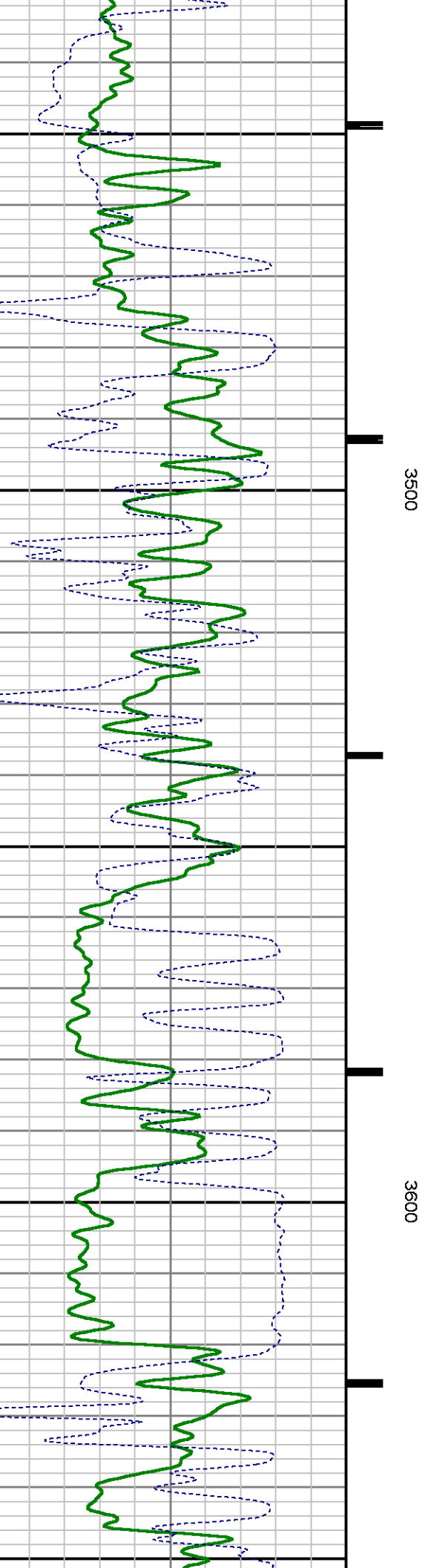
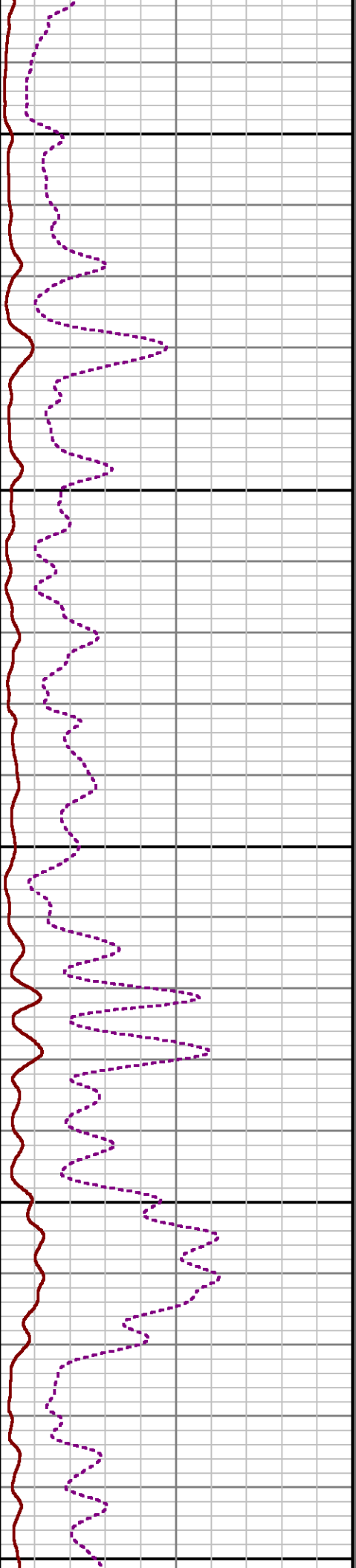
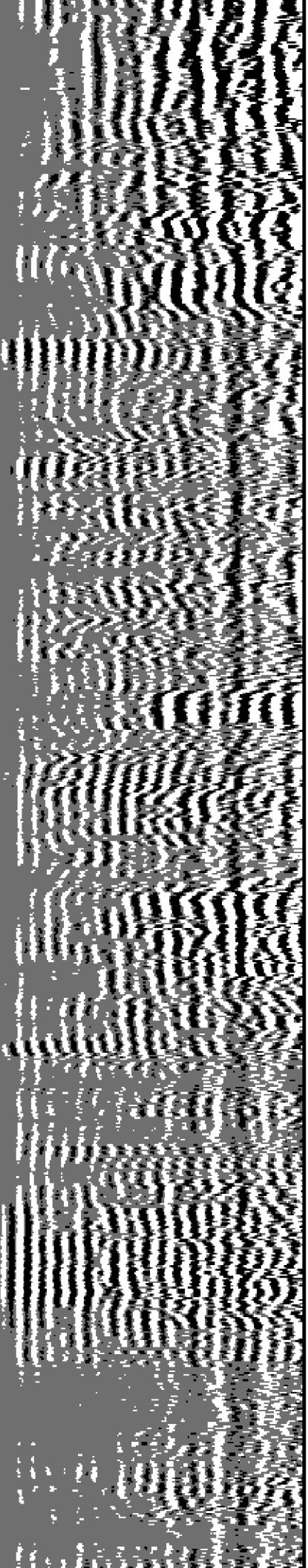


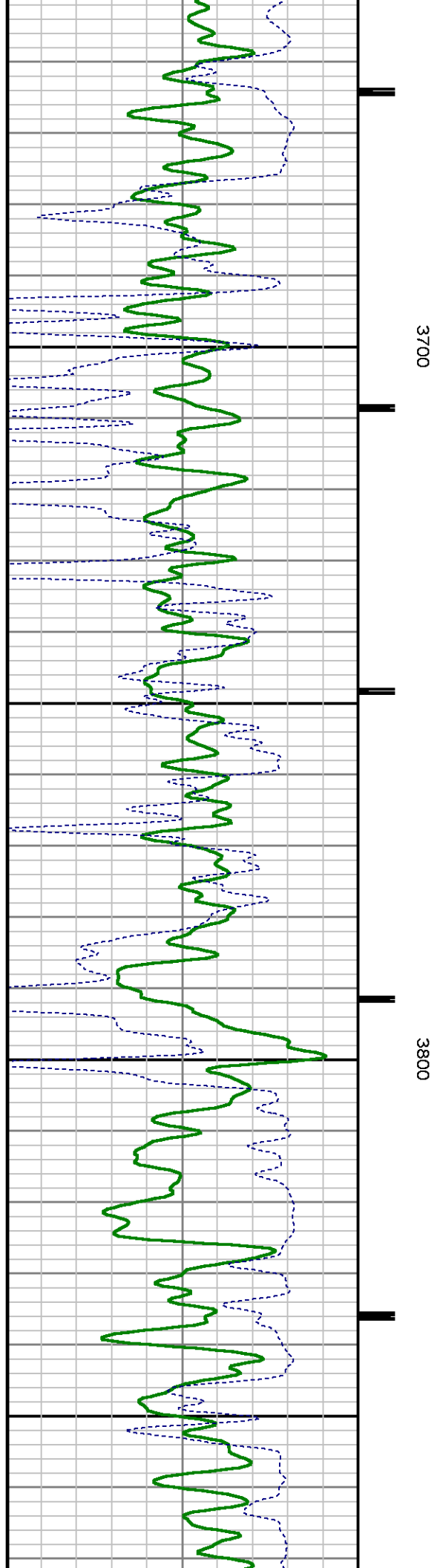
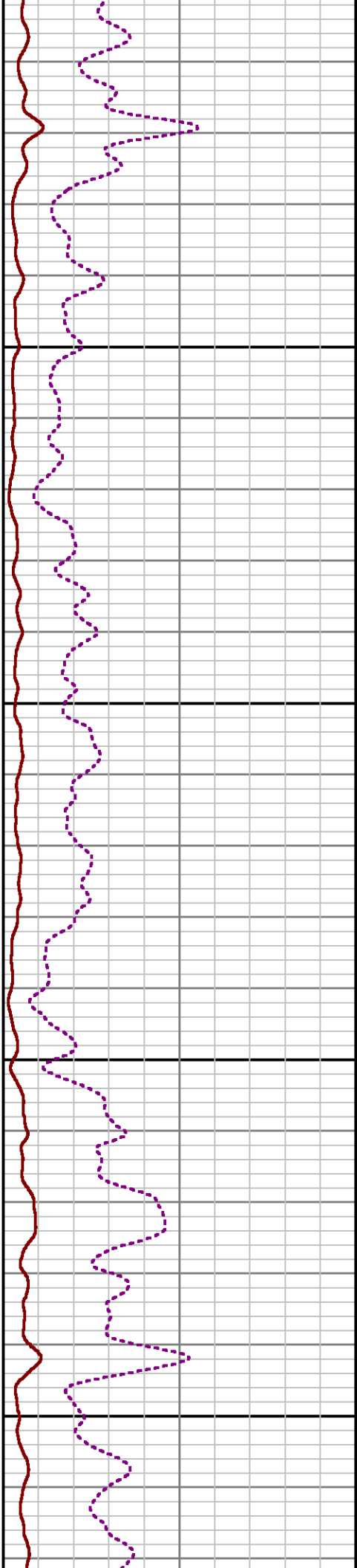
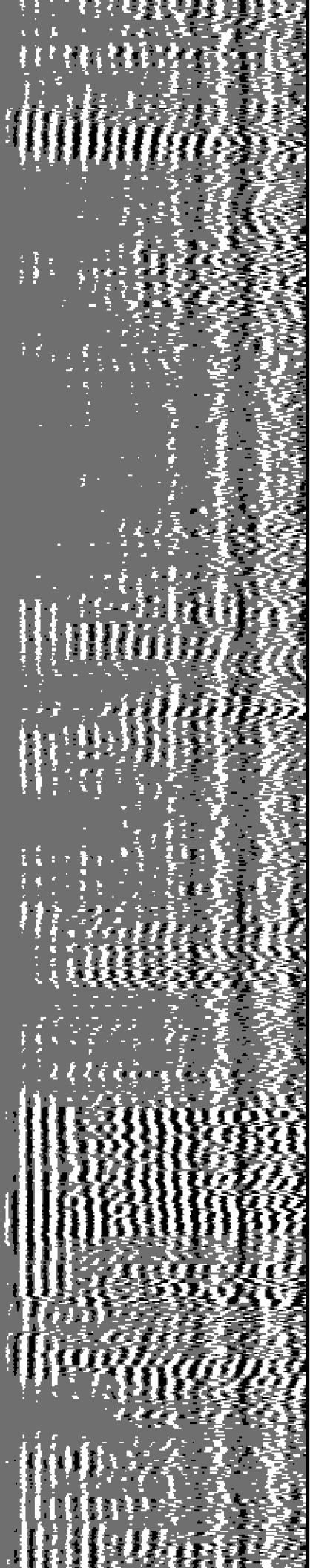


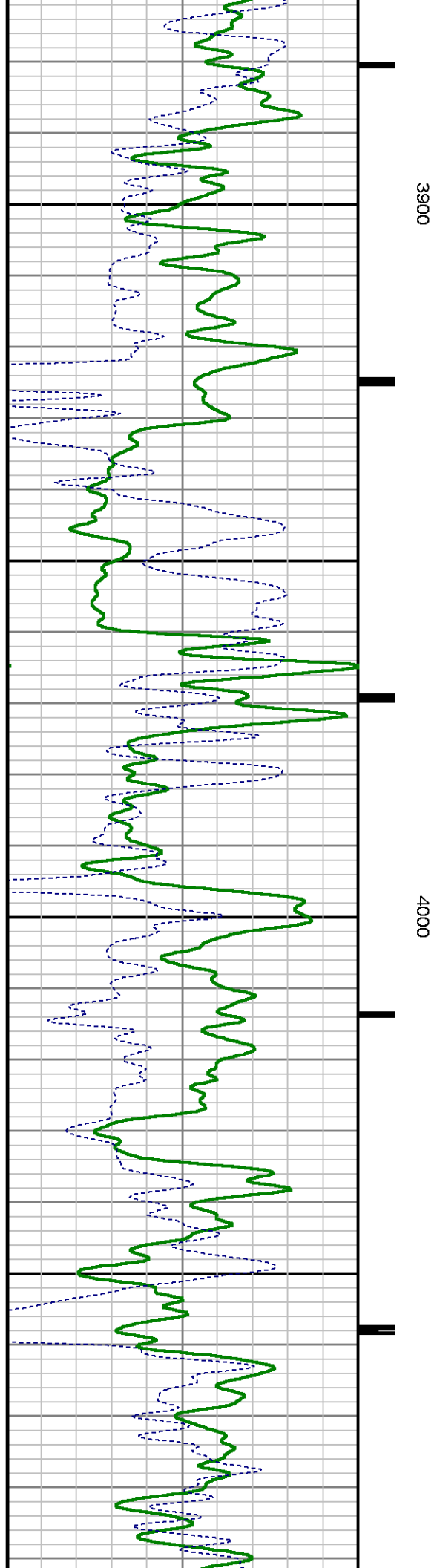
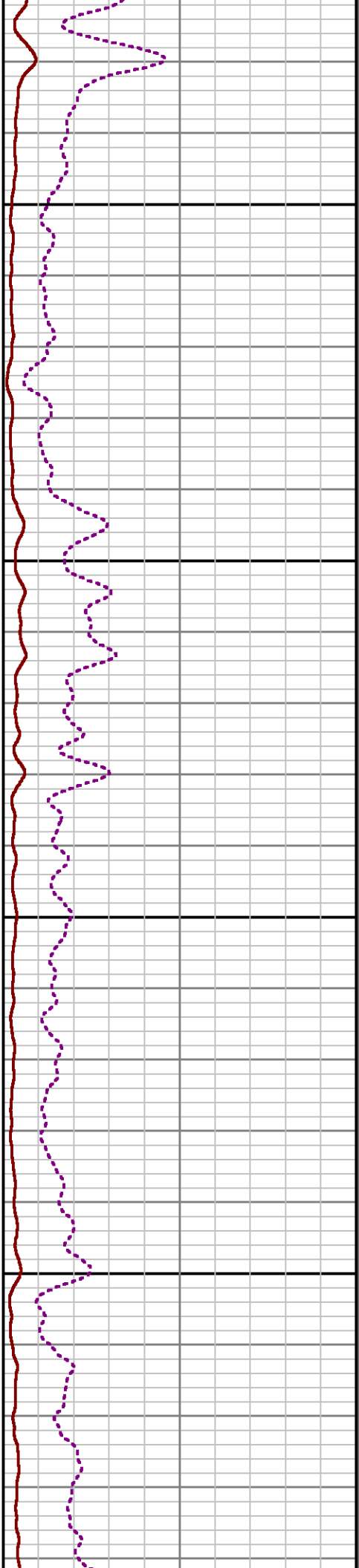
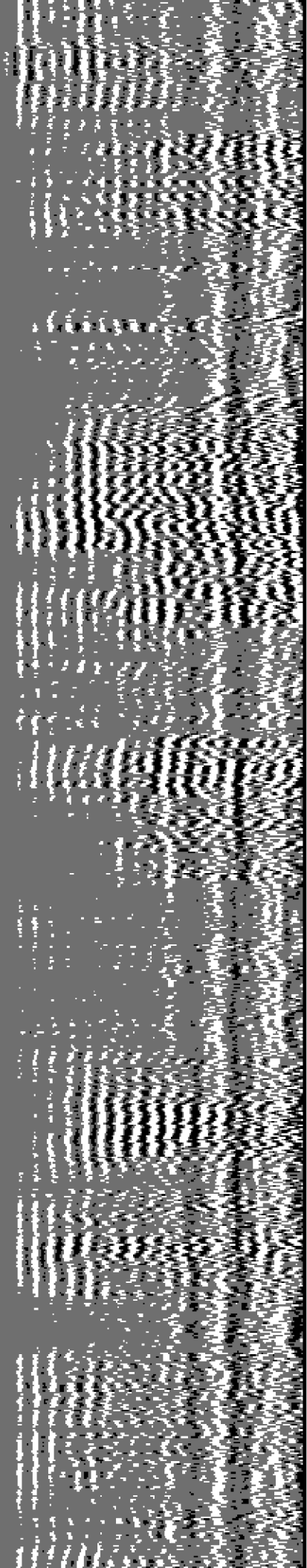


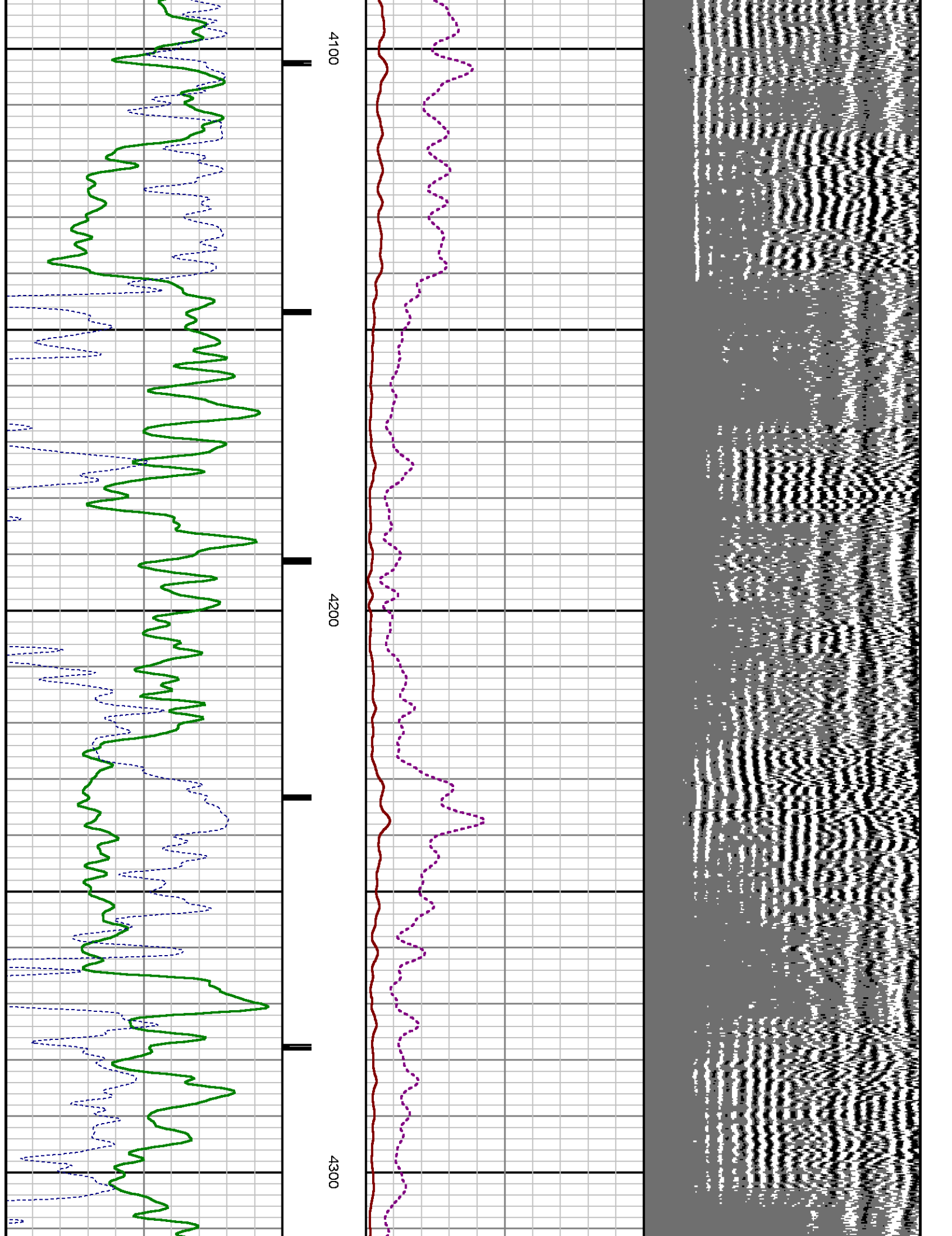


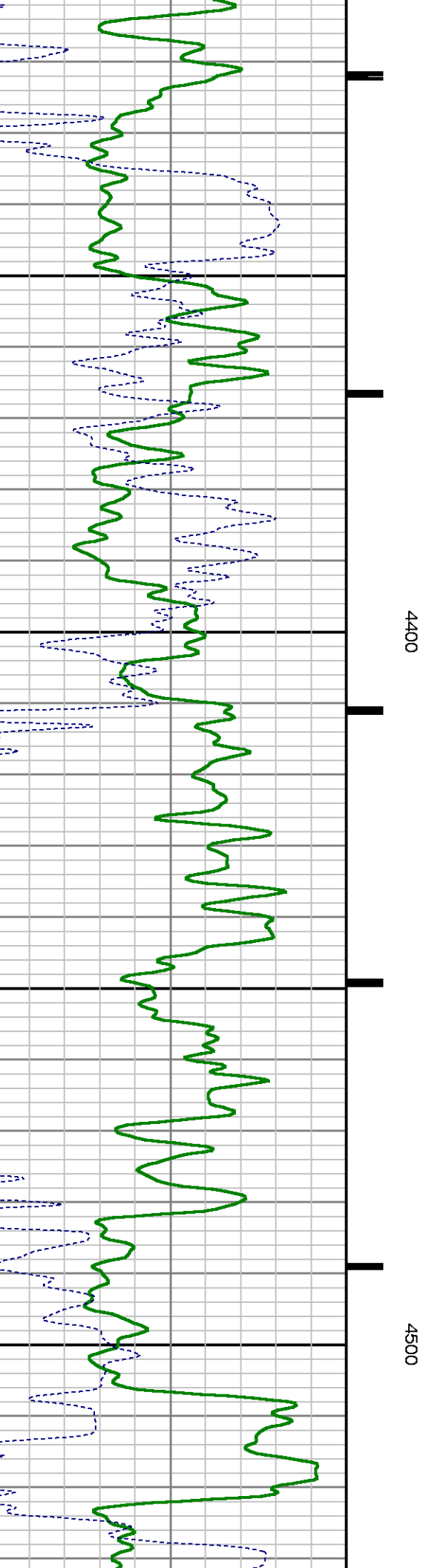
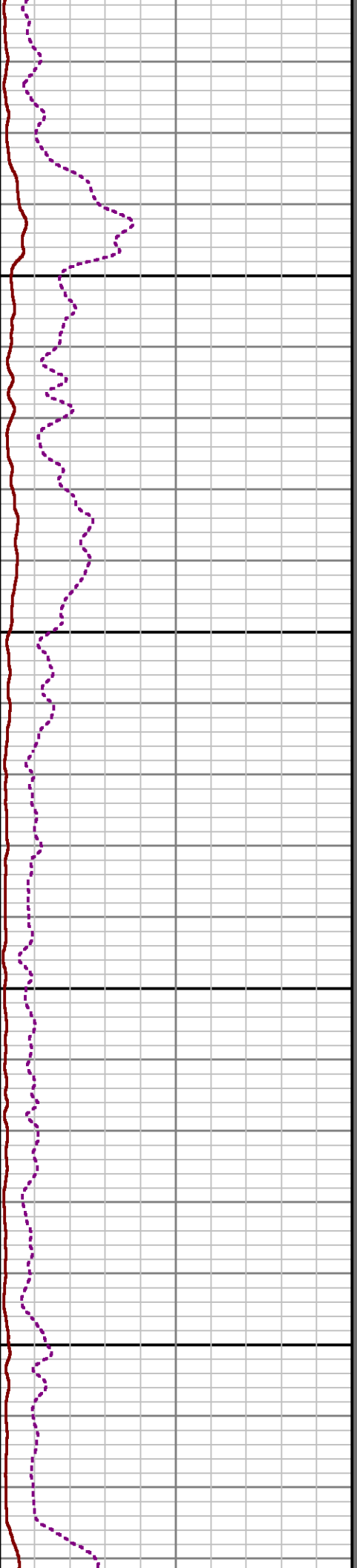
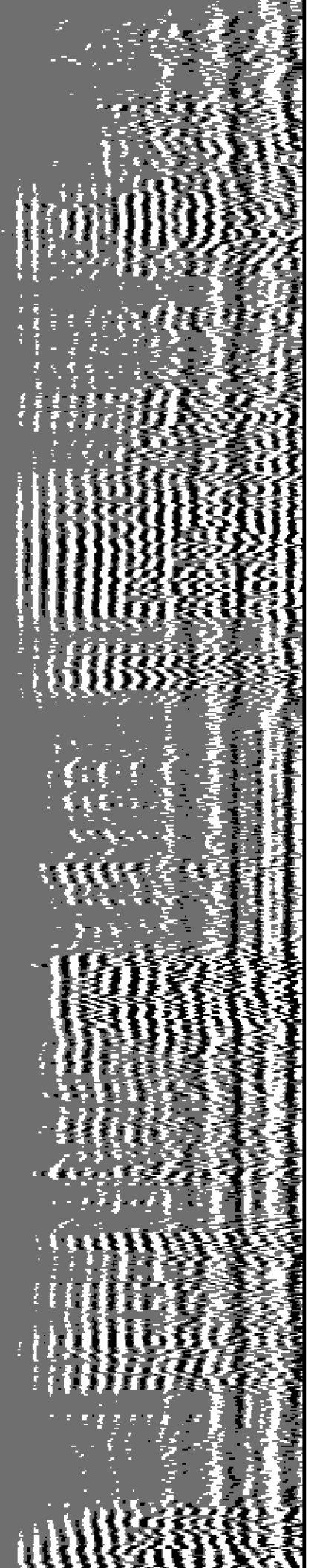


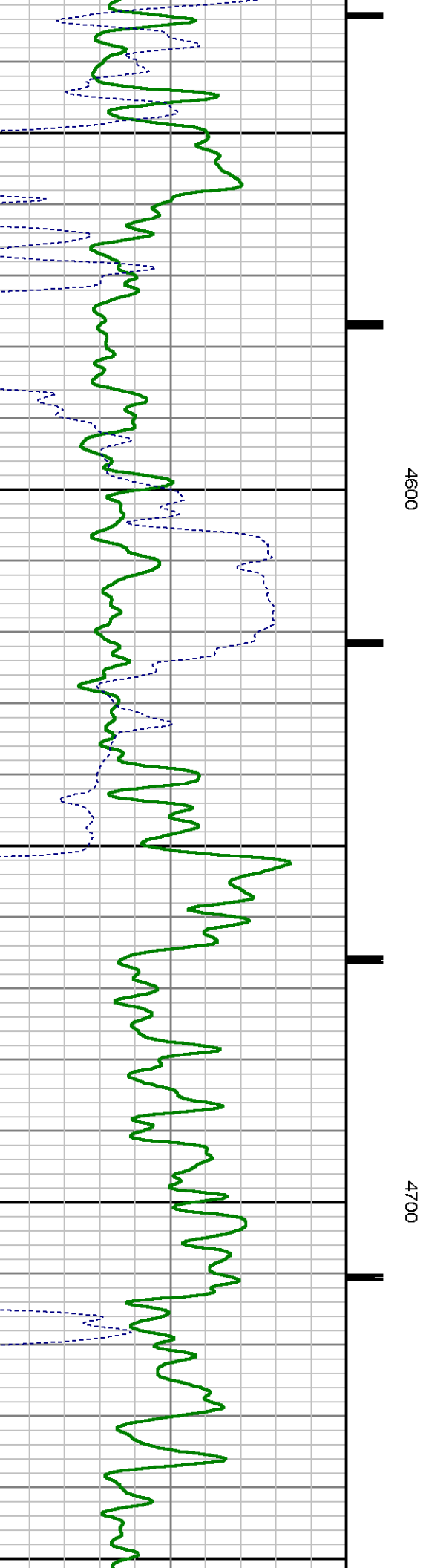
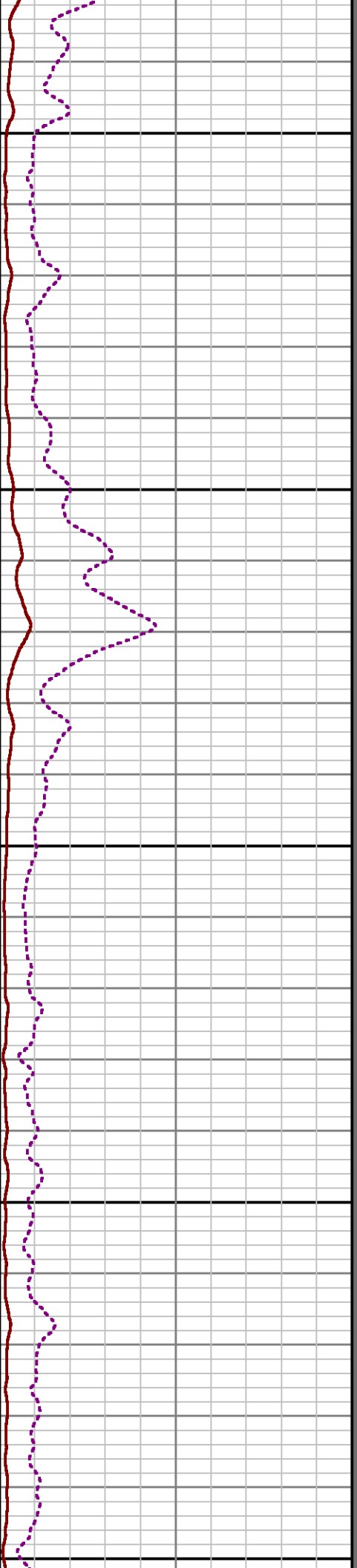
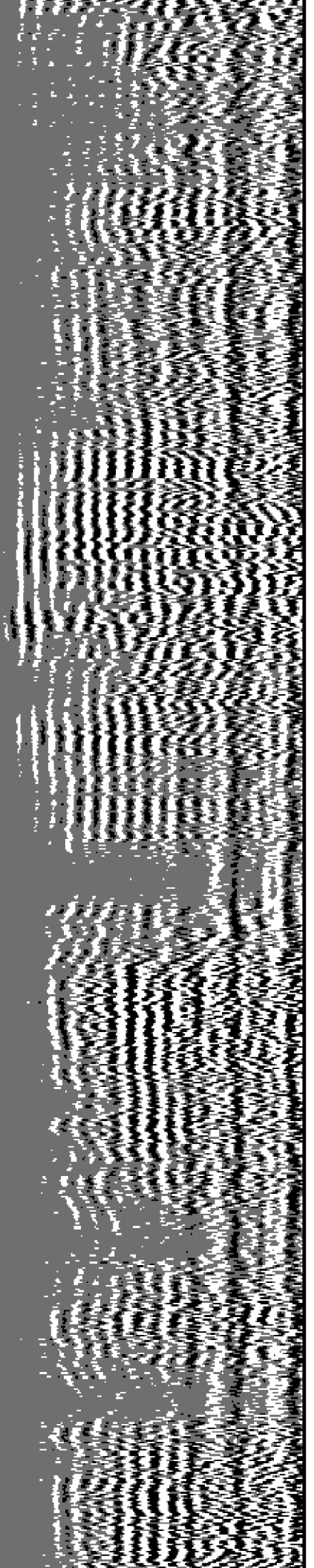


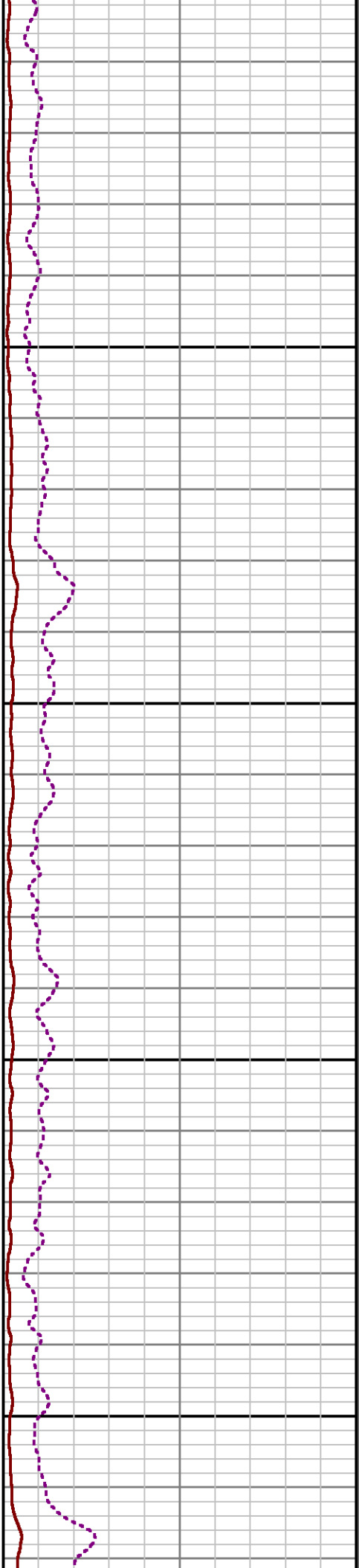
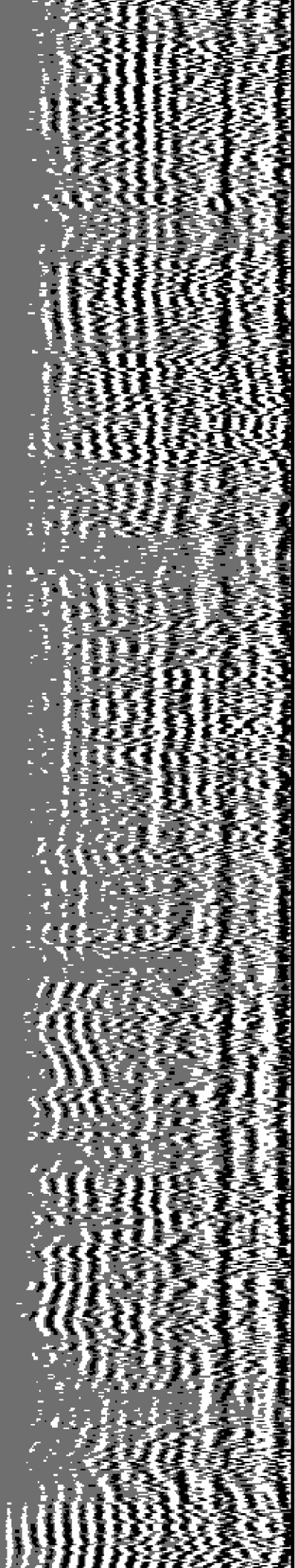






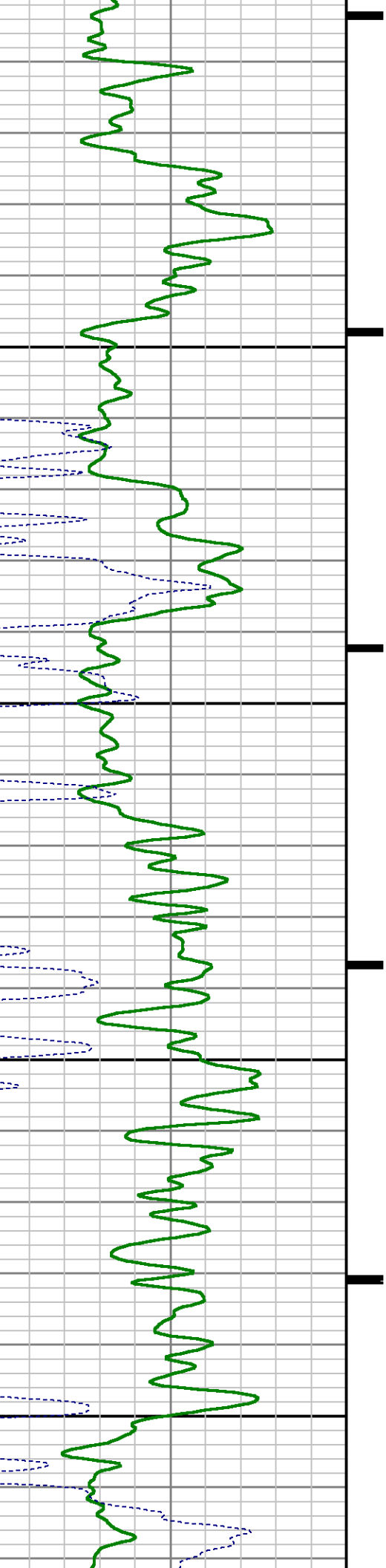


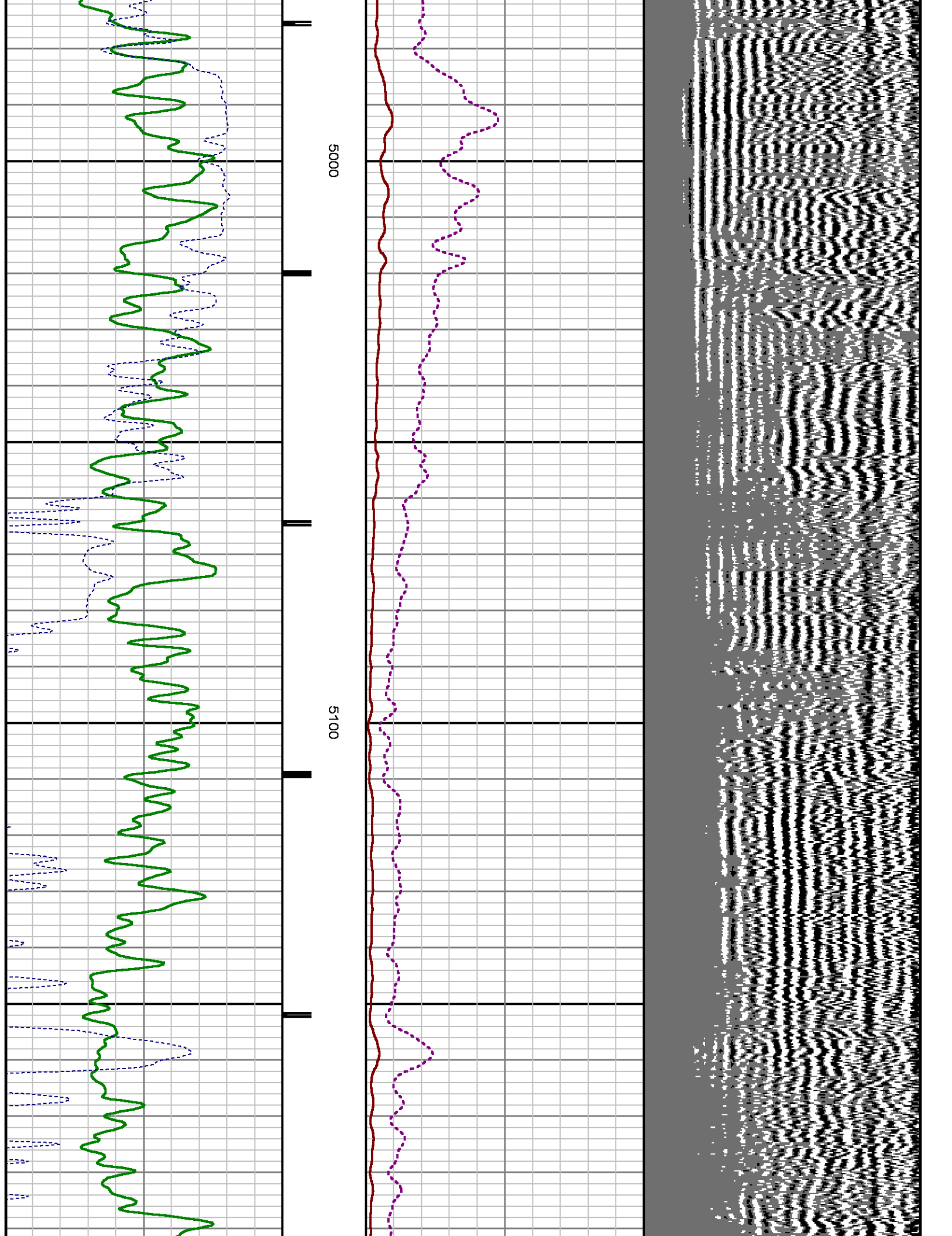


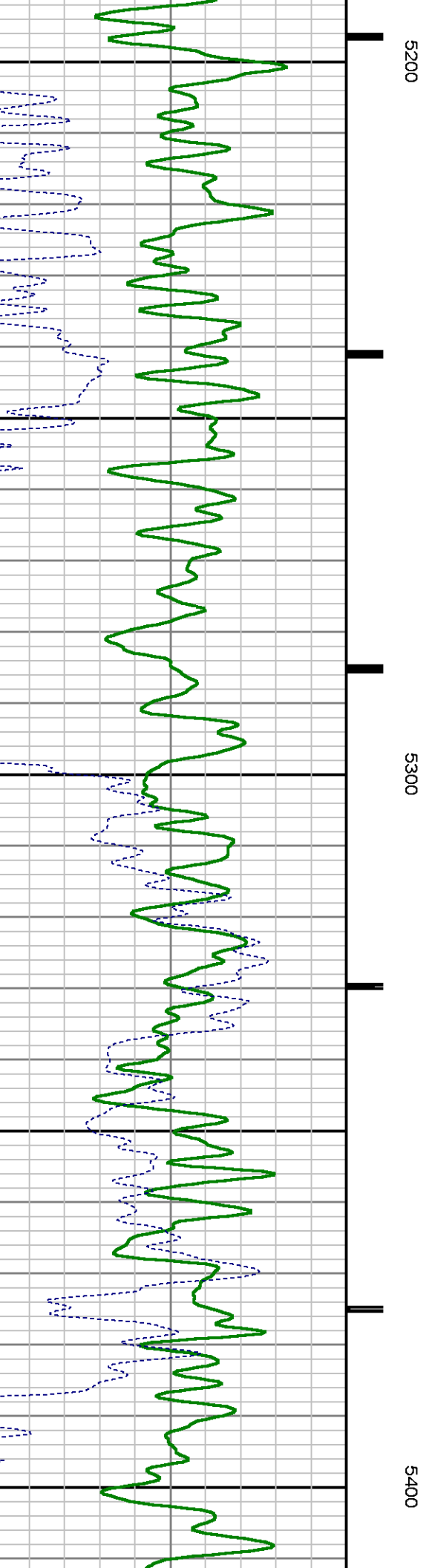
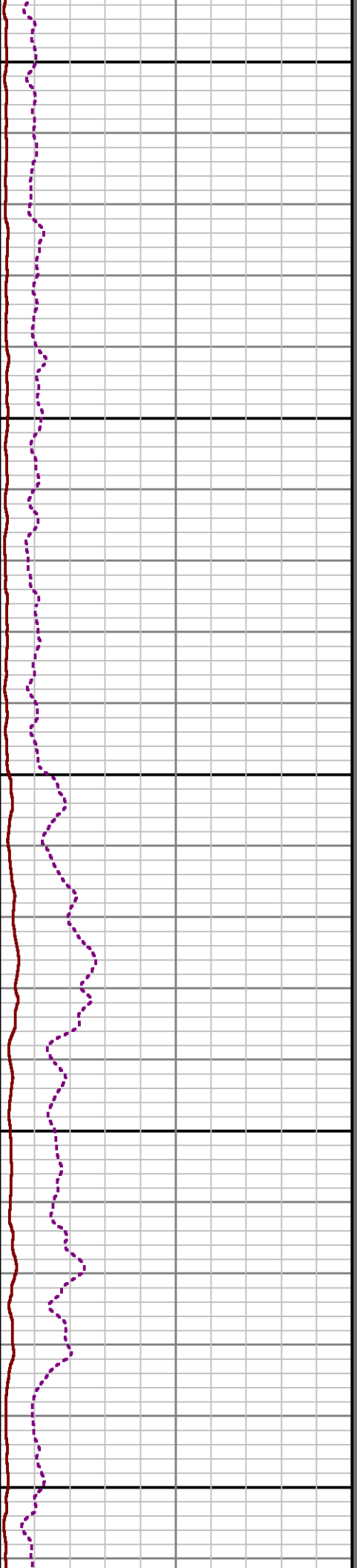
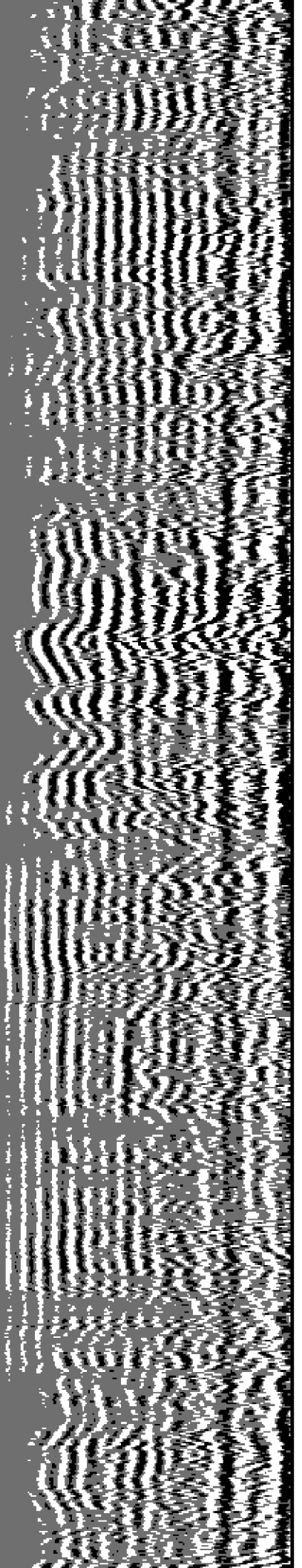


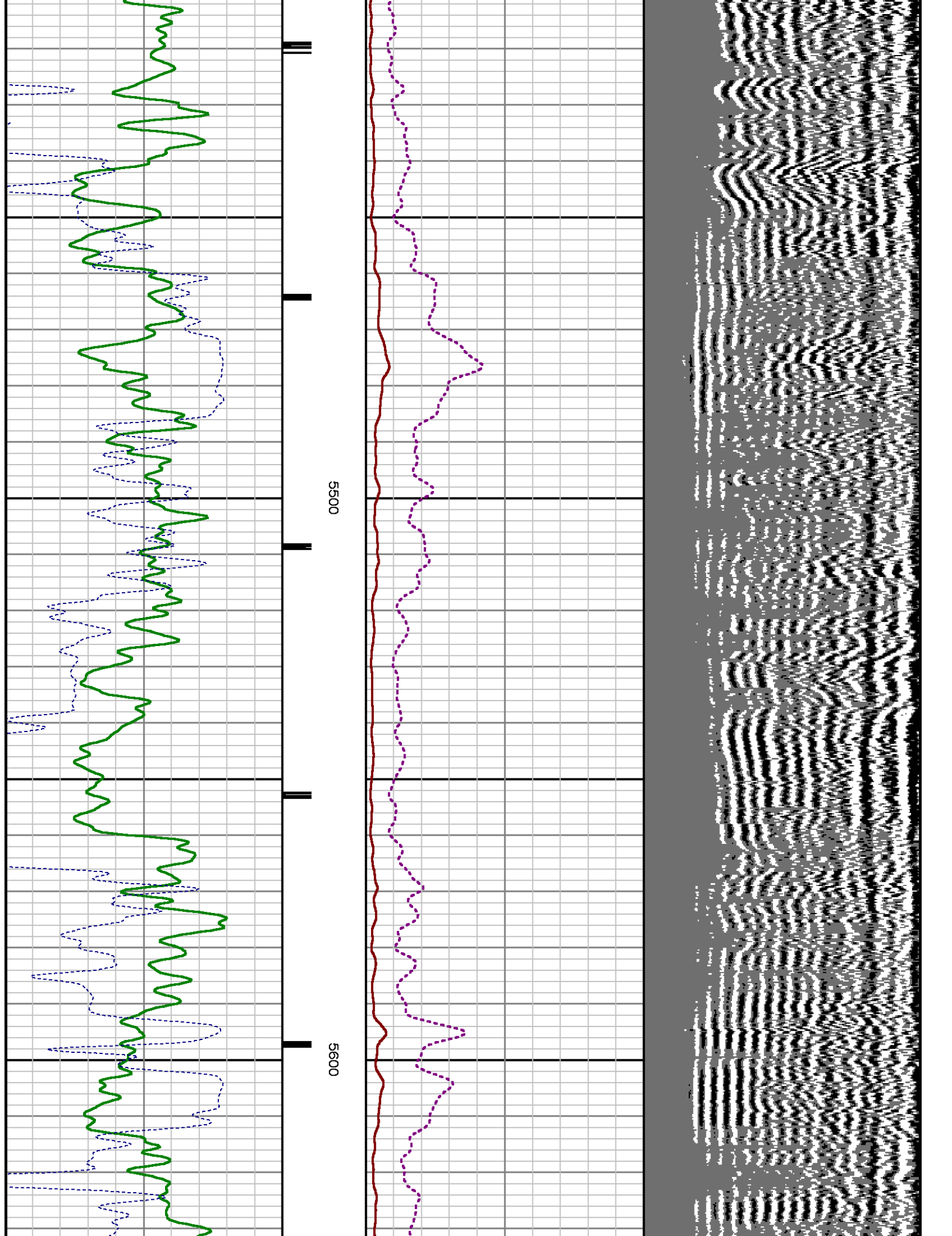
4800

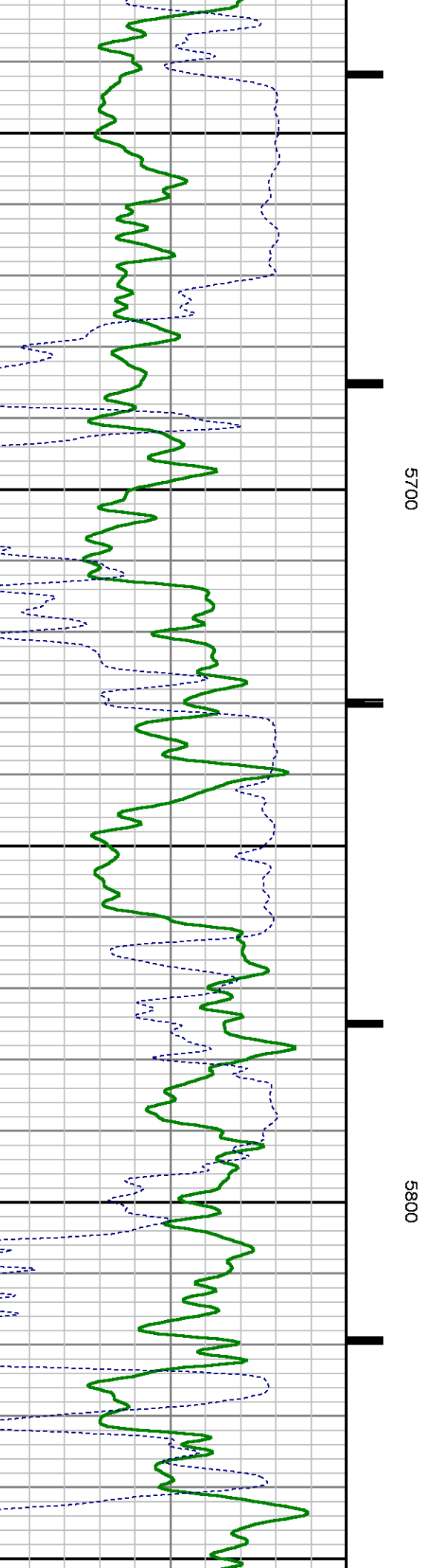
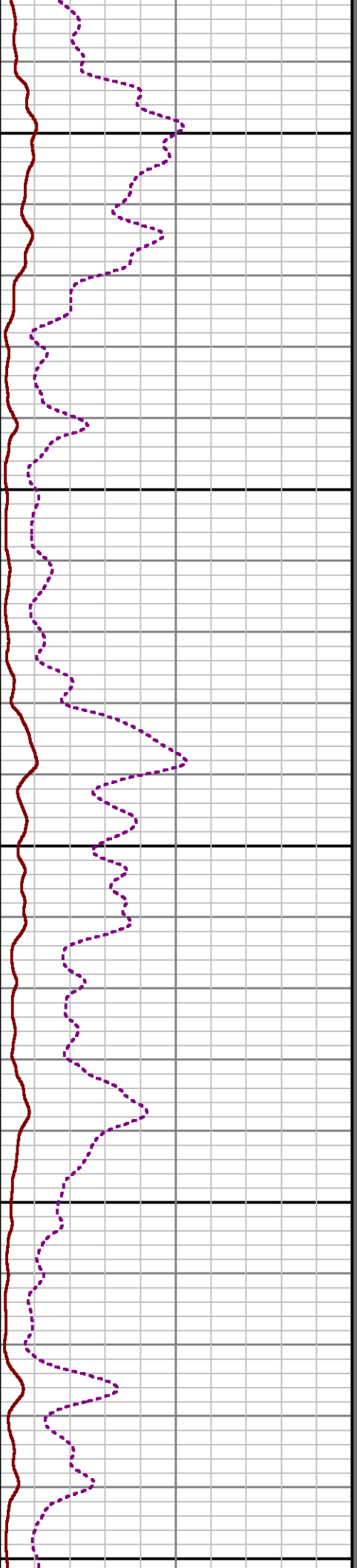
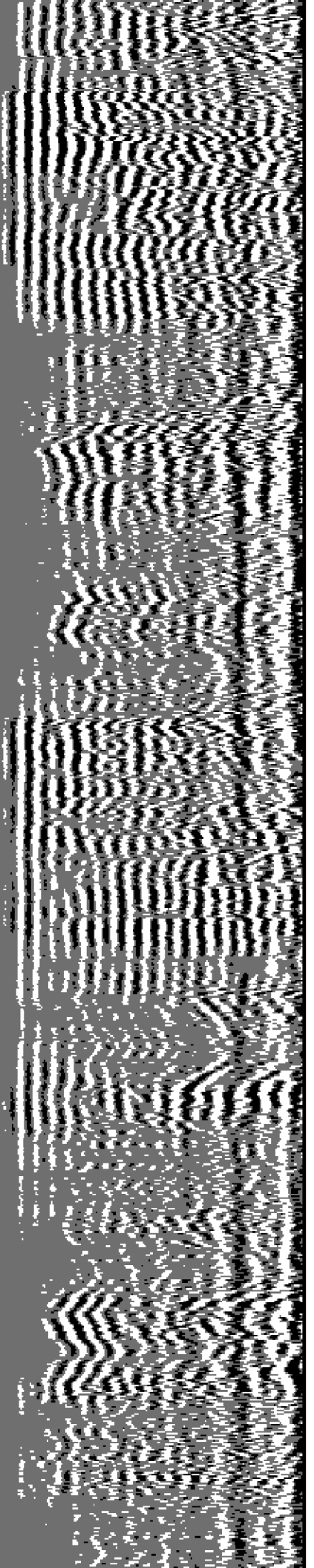
4900

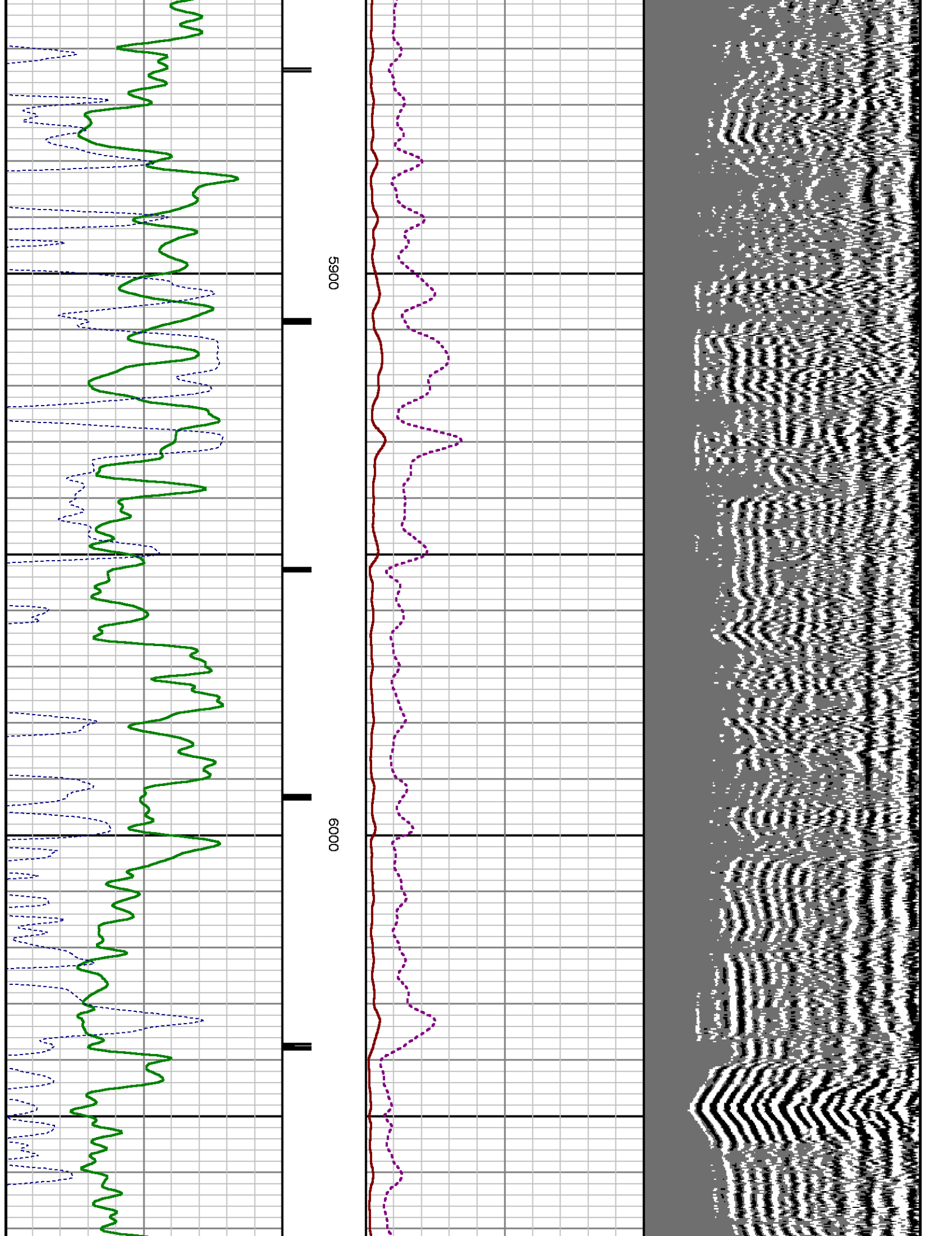


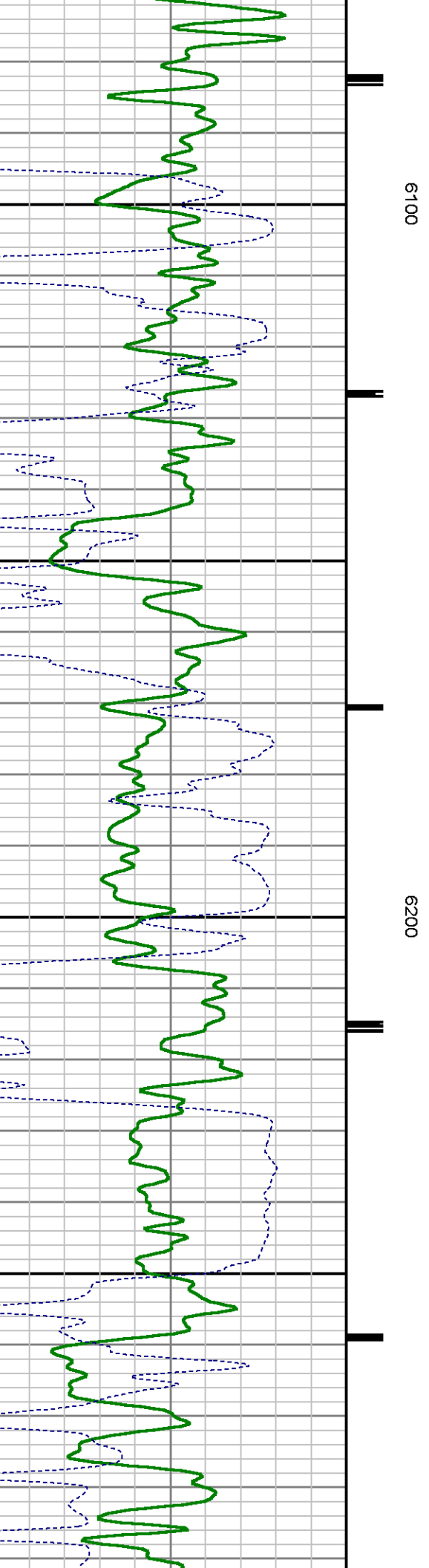
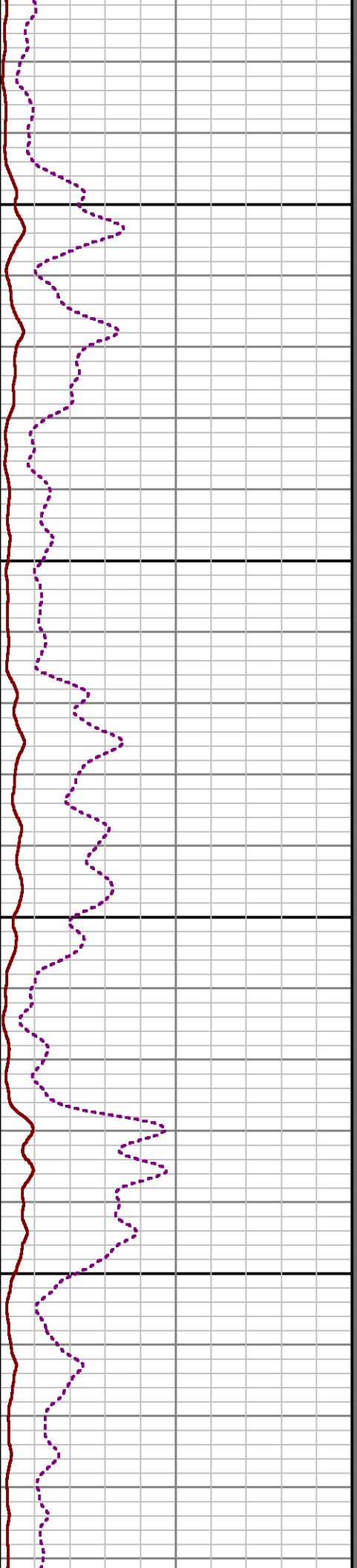
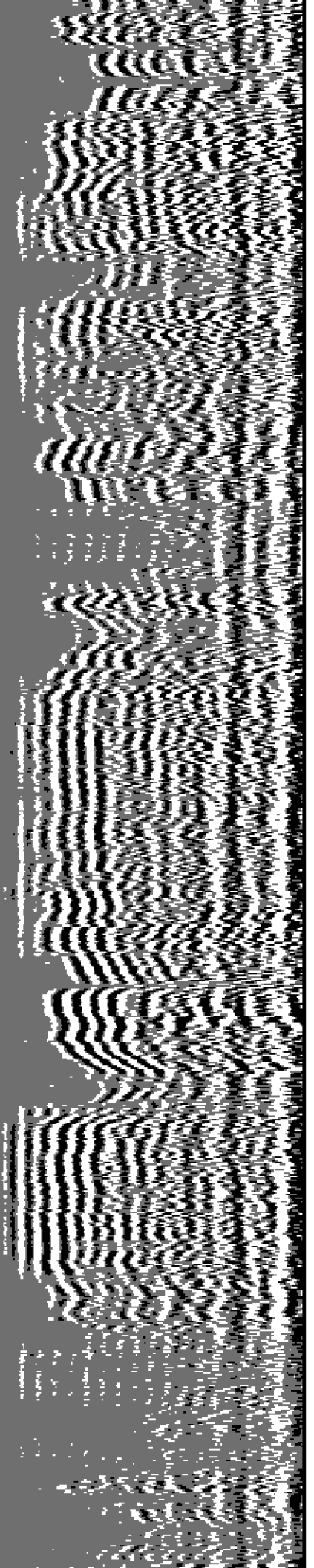


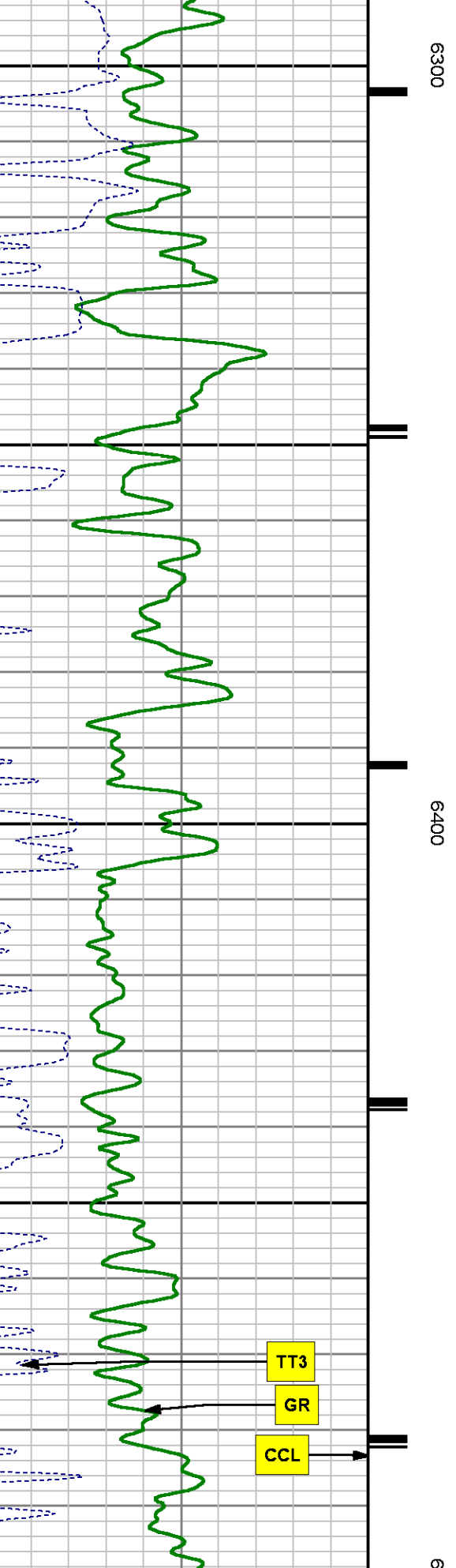
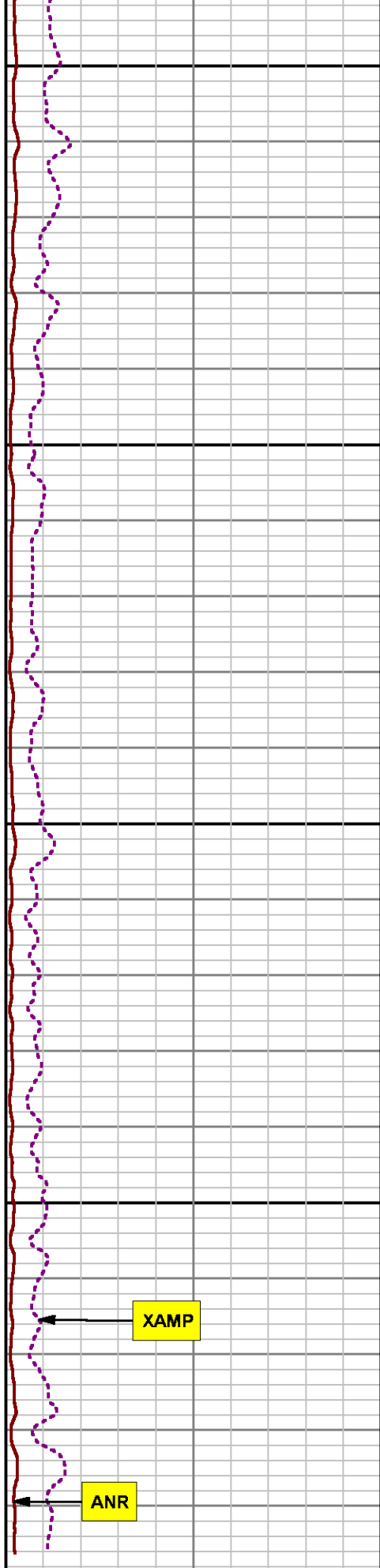
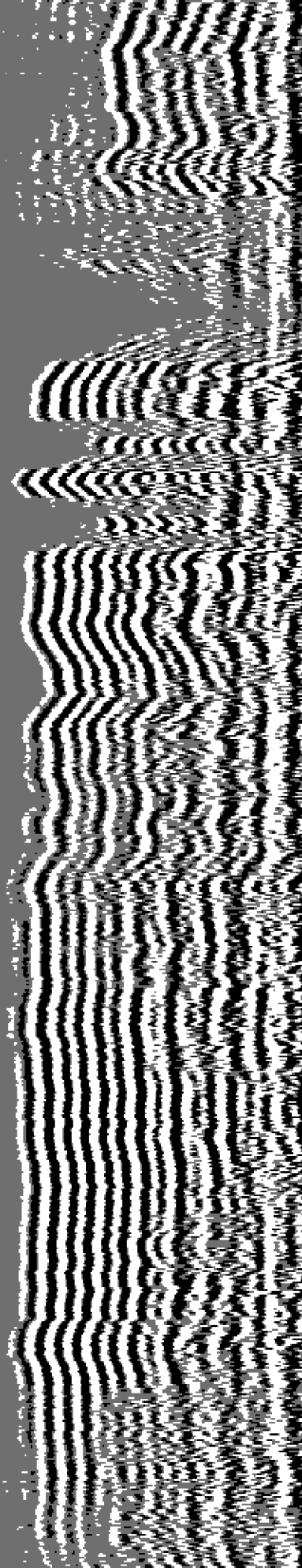


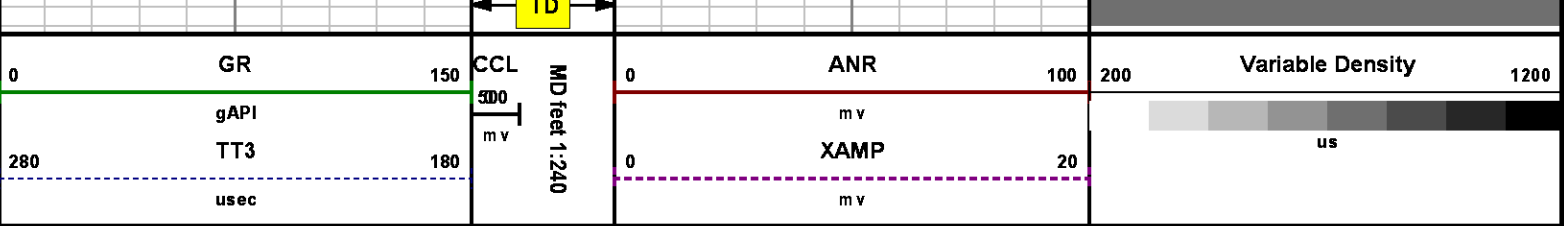












SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	35.818	6513.000
RAL	Amp Gate Start Near	195.000	u sec	35.818	6513.000
RAL	Amp Gate Start Radial	195.000	u sec	35.818	6513.000
RAL	Amp Gate Width Far	25.000	u sec	35.818	6513.000
RAL	Amp Gate Width Near	25.000	u sec	35.818	6513.000
RAL	Amp Gate Width Radial	25.000	u sec	35.818	6513.000
RAL	casing od	4.500	inches	35.818	6513.000
RAL	casing wt	11.600	lbm/ft	35.818	6513.000
RAL	FB Start Far	291.900	u sec	35.818	6513.000
RAL	FB Start Near	180.000	u sec	35.818	6513.000
RAL	FB Start Radial	180.000	u sec	35.818	6513.000
RAL	FB Thresh Far	10.000	mV	35.818	6513.000
RAL	FB Thresh Near	4.000	mV	35.818	6513.000
RAL	FB Thresh Radial	4.000	mV	35.818	6513.000
RAL	Fluid Travel Time	200.000	u sec/ft	35.818	6513.850

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

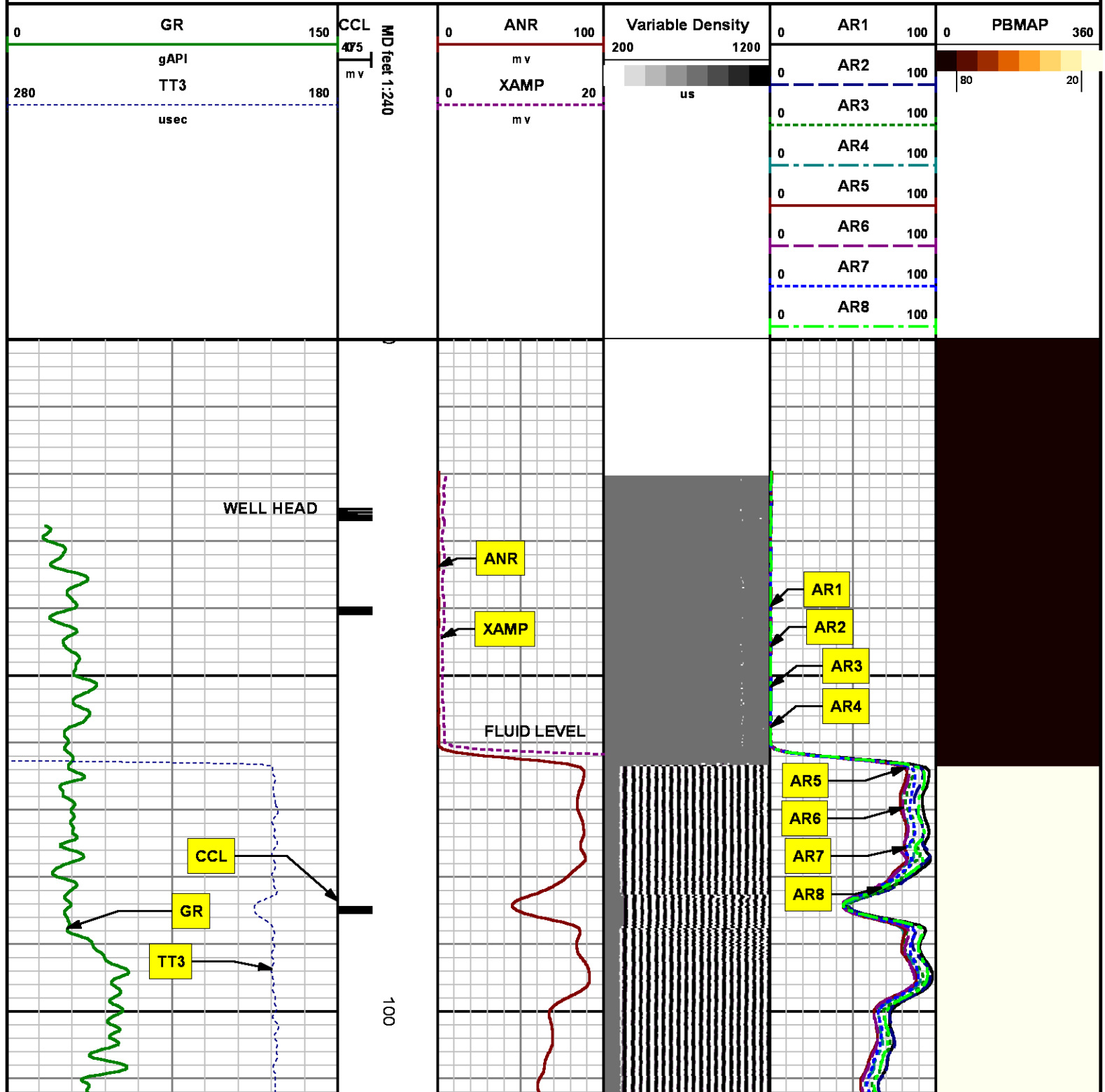
Well : PA 311-7

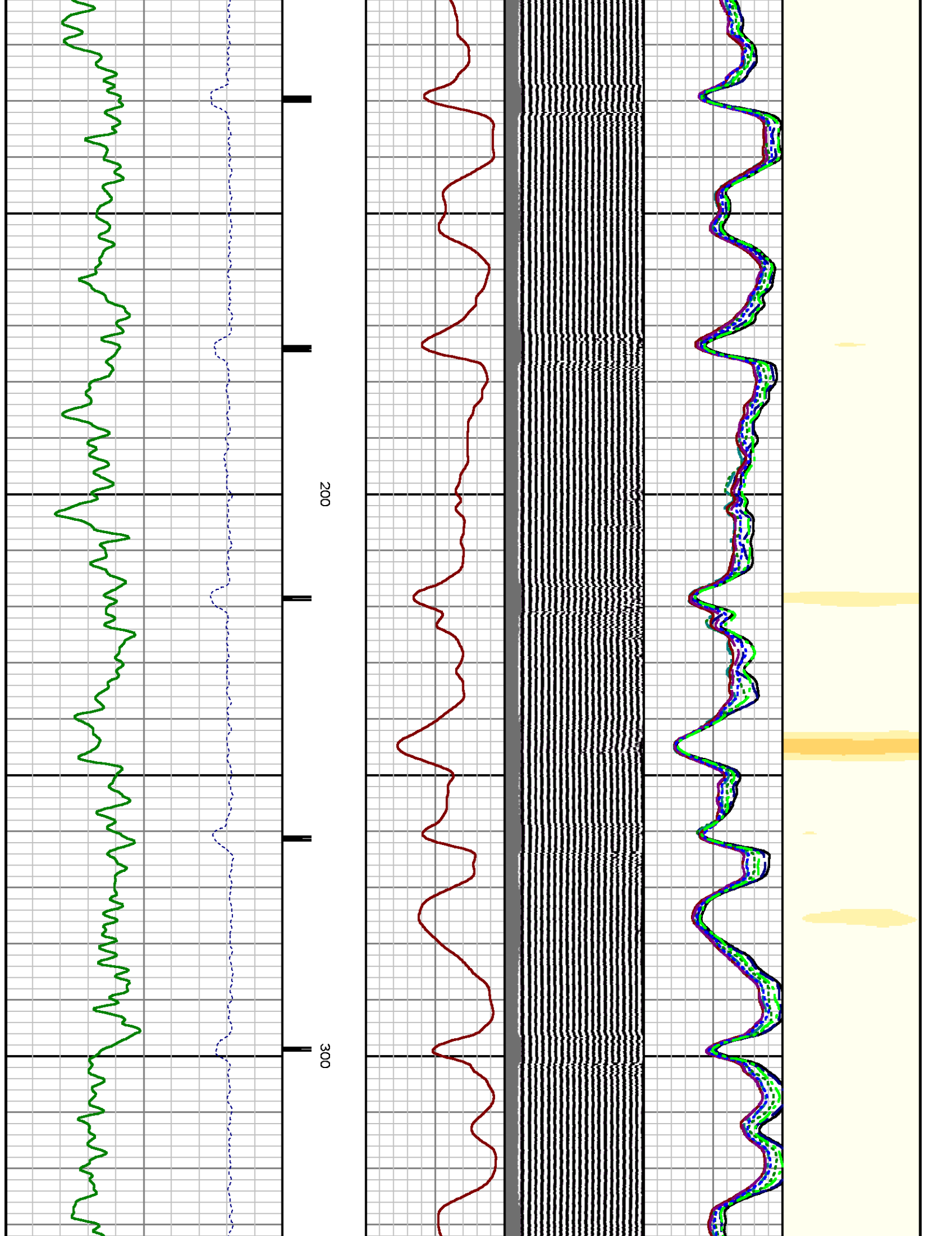
File Name : d:\welldata\wpx\pa 311-7\311ra\main.xtf

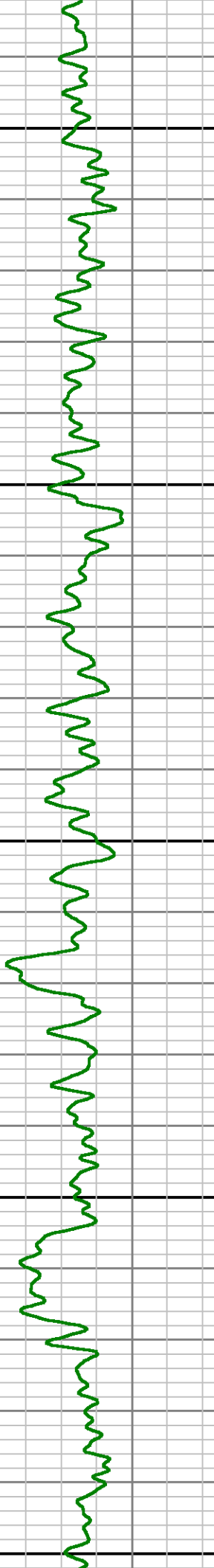
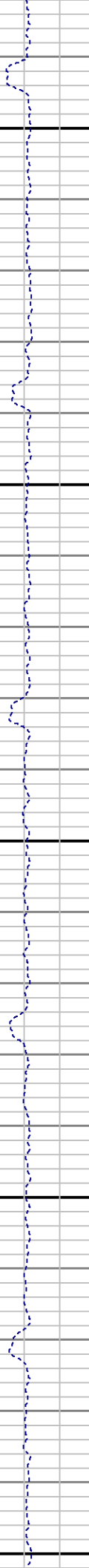
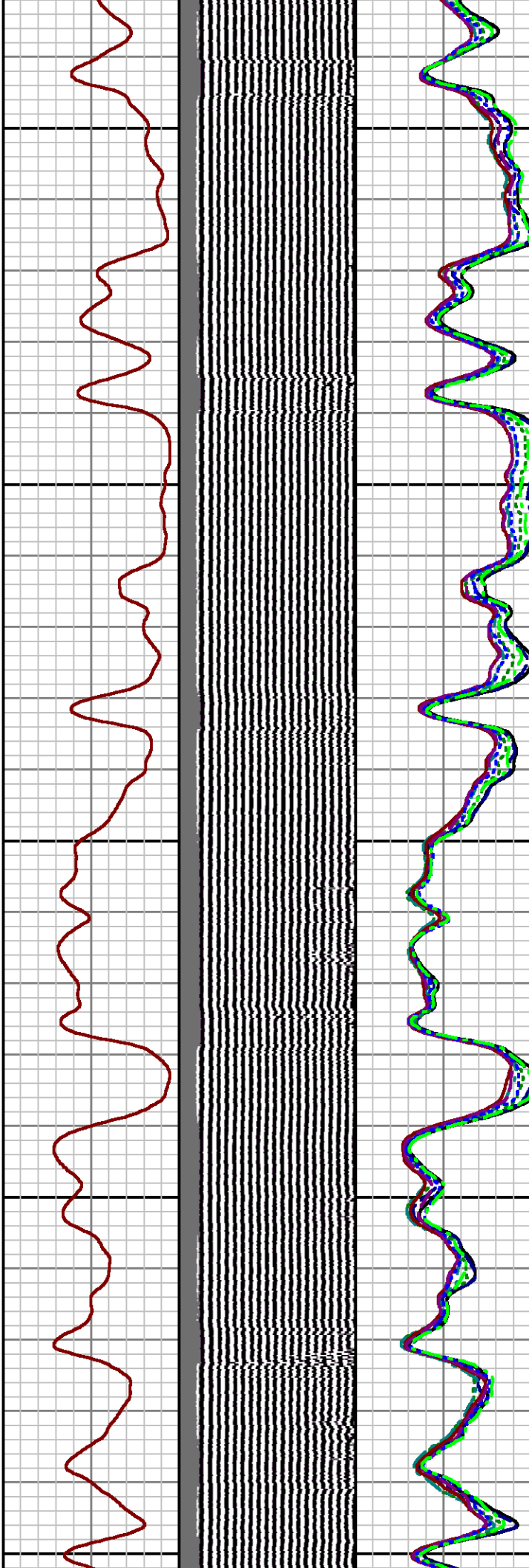
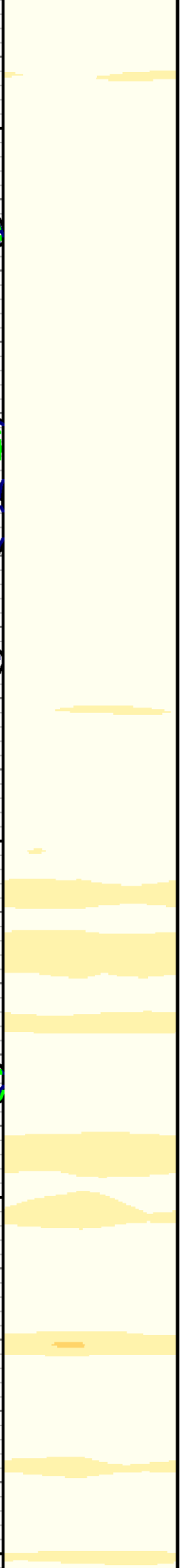
Mode : PlotMgr 5.4.504

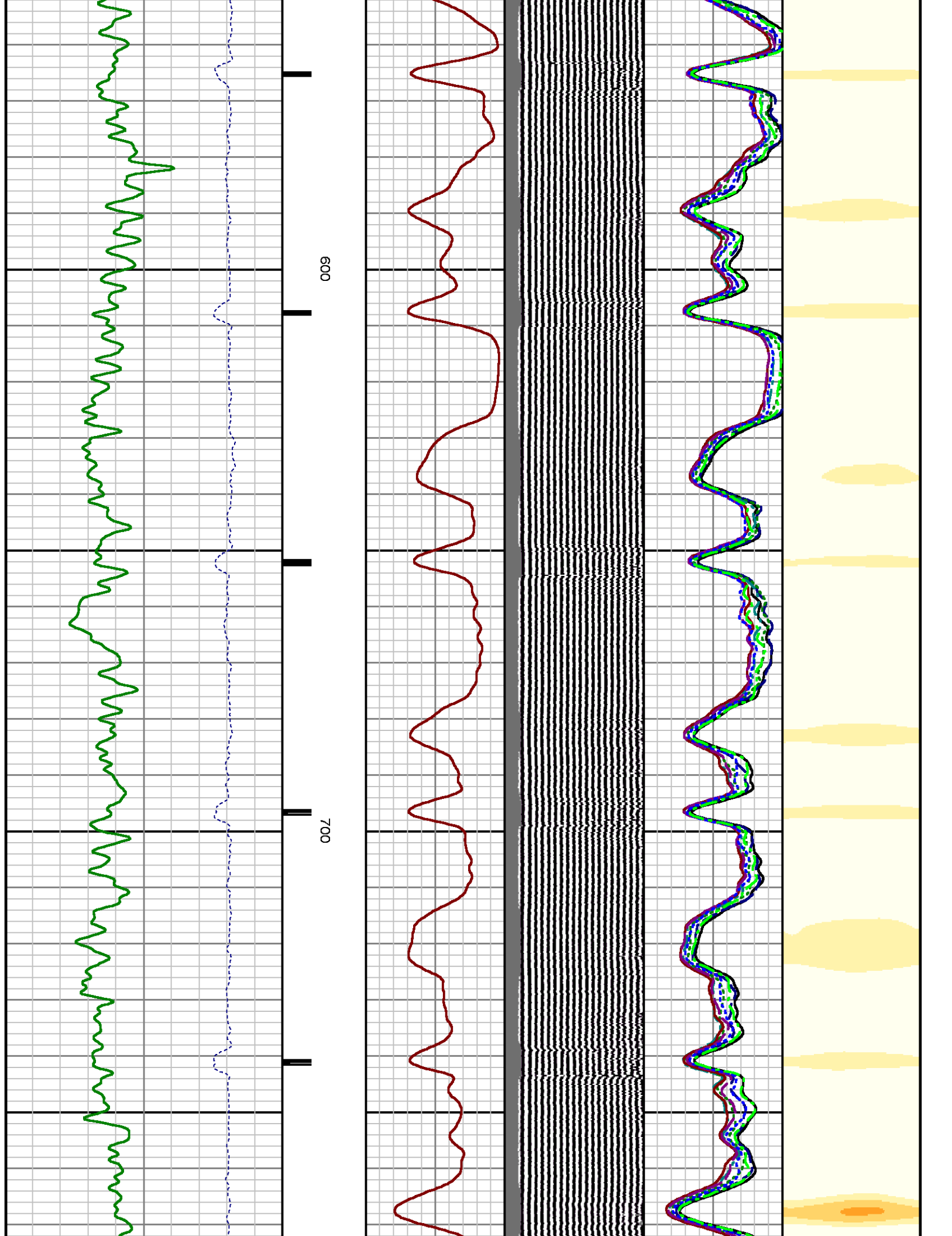
Interval : 0.00 - 6515.00 feet UP

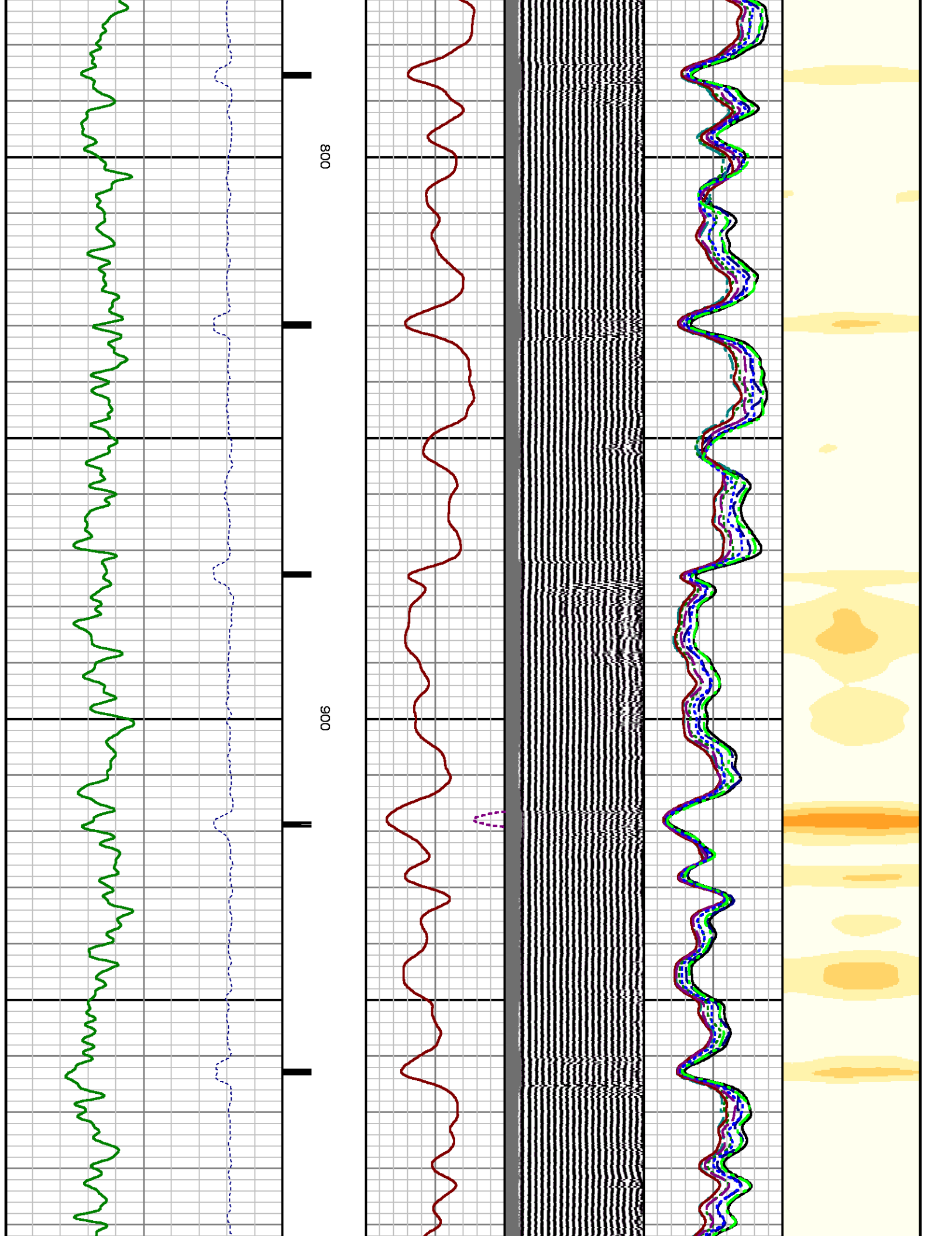
Created : 5/3/2014 10:48:31 AM

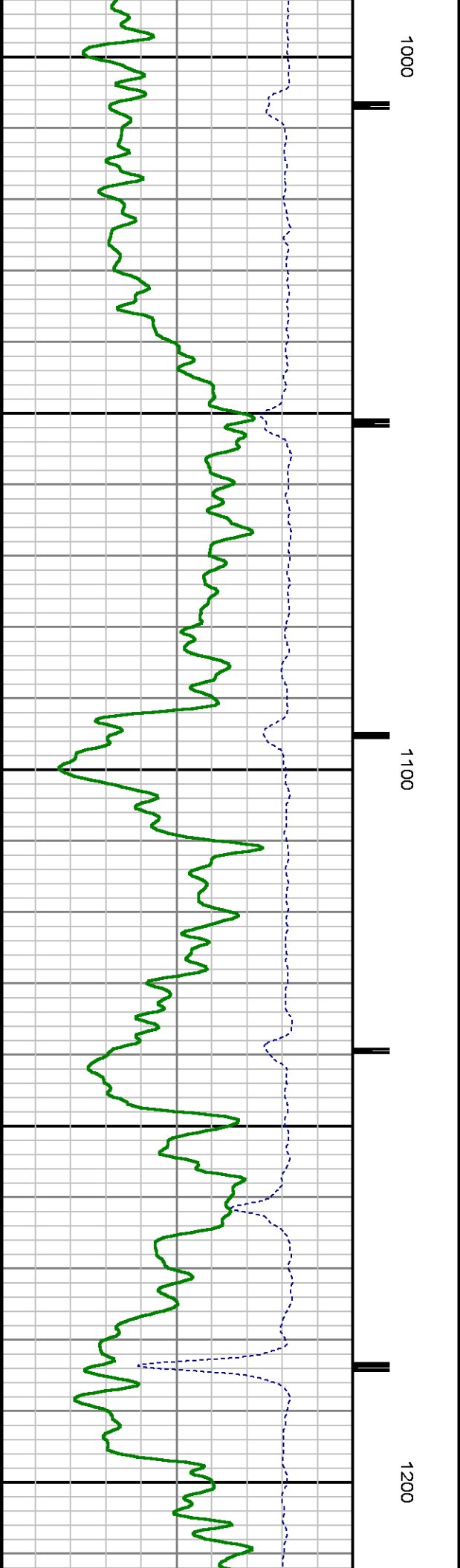
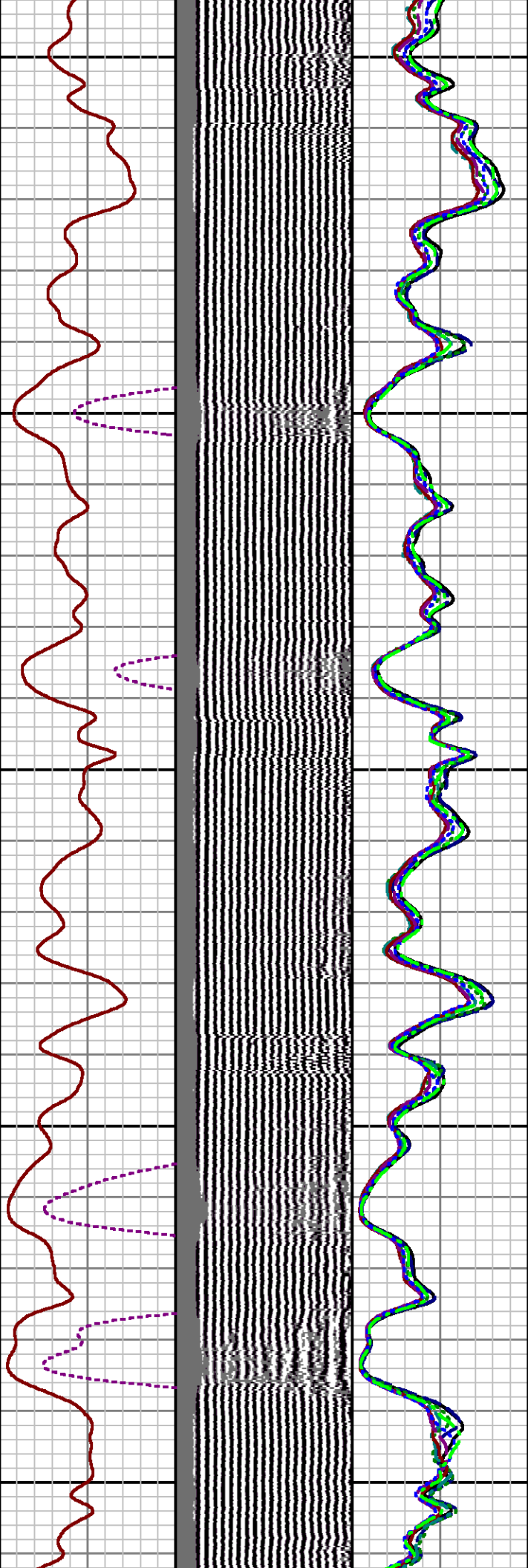
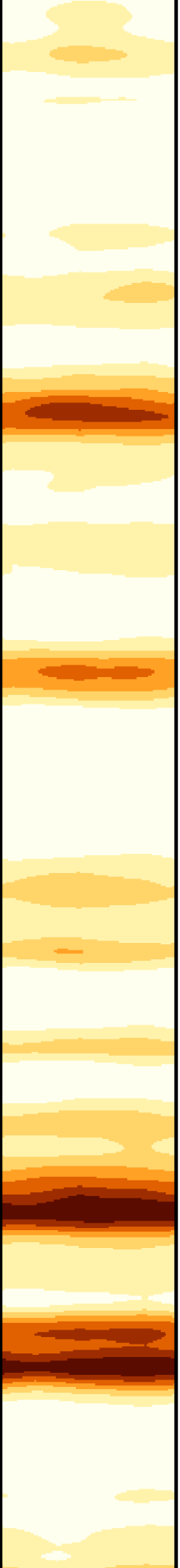


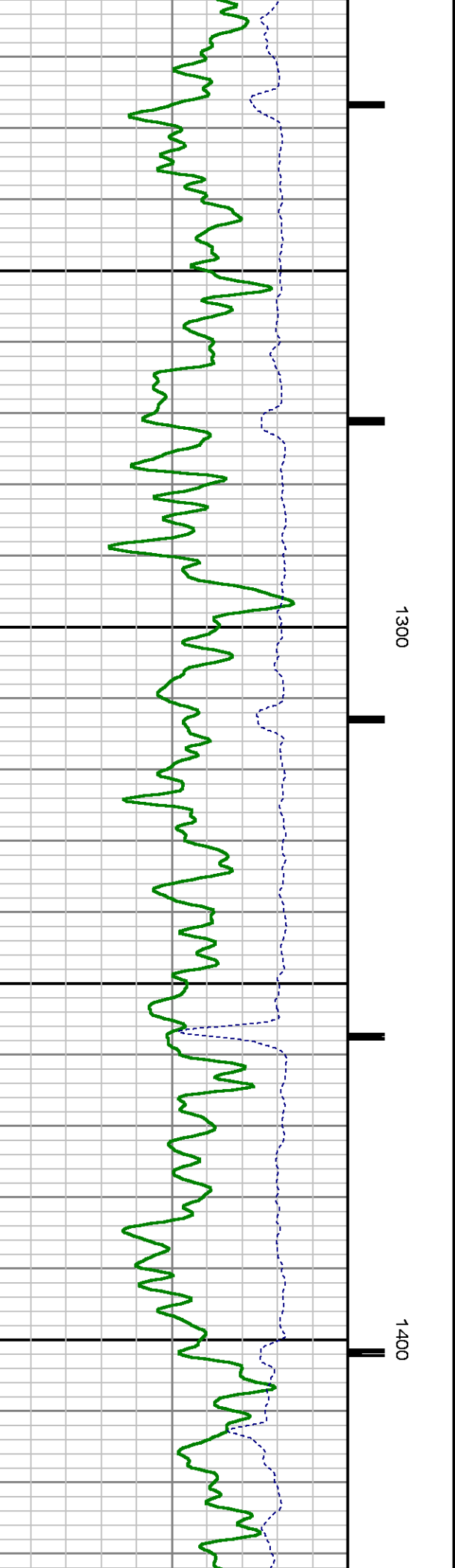
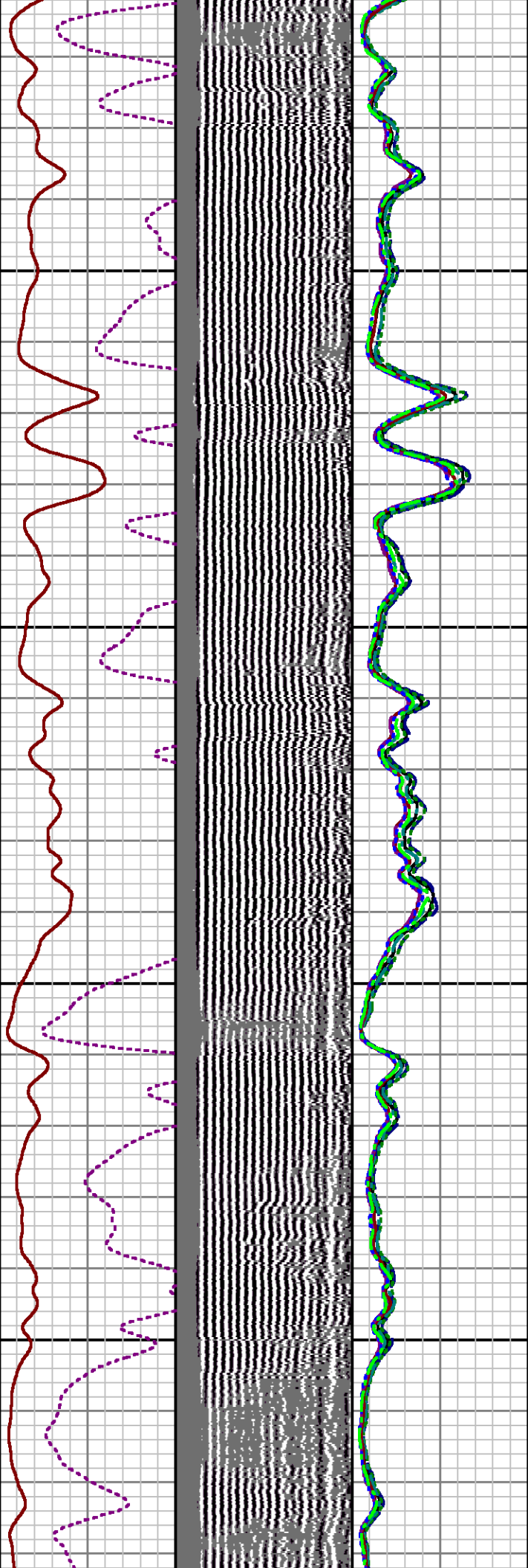
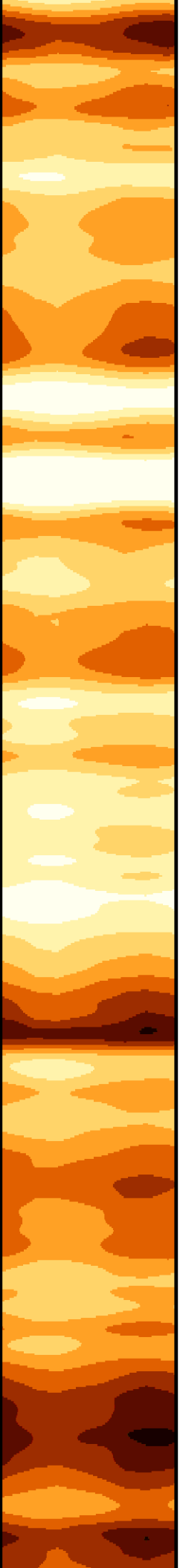


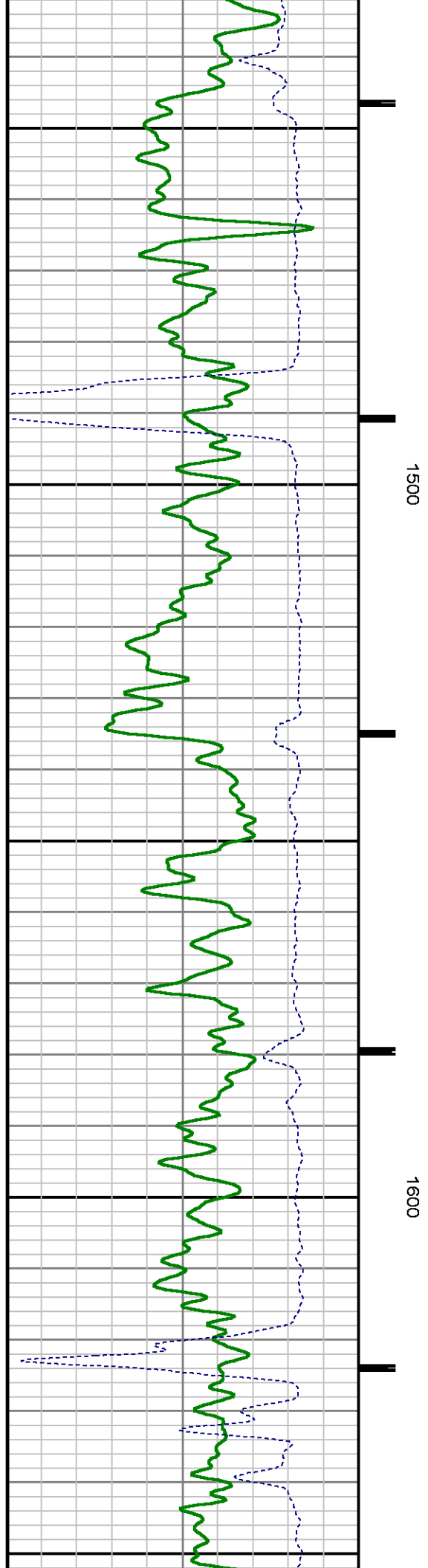
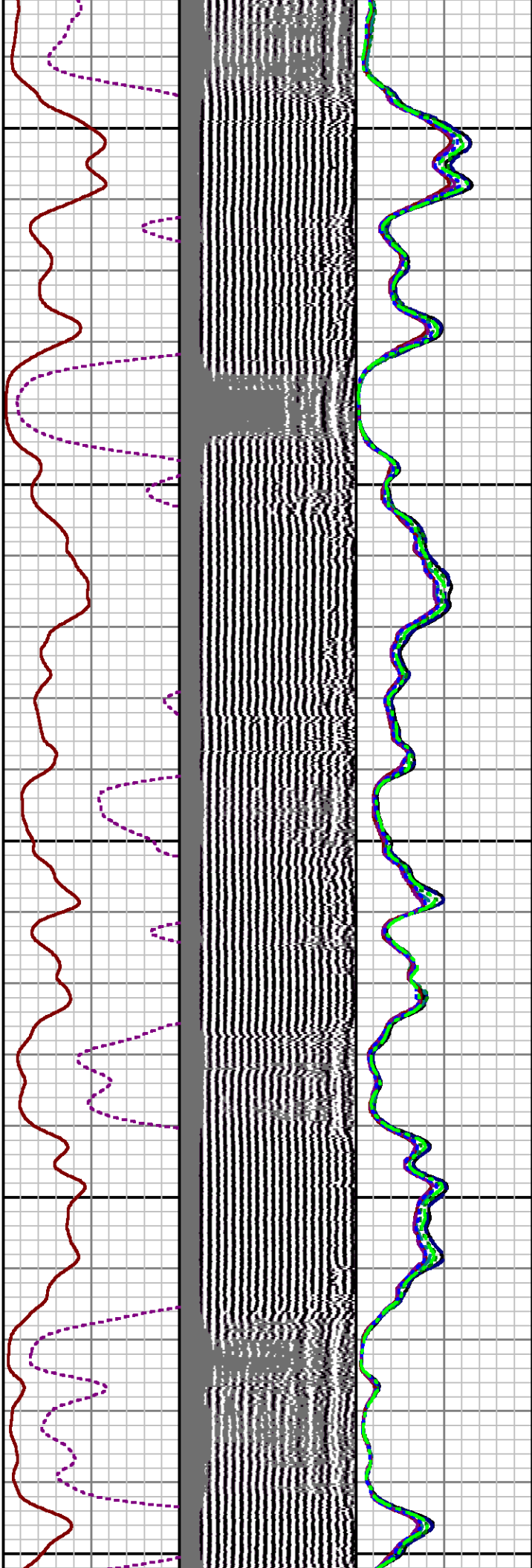
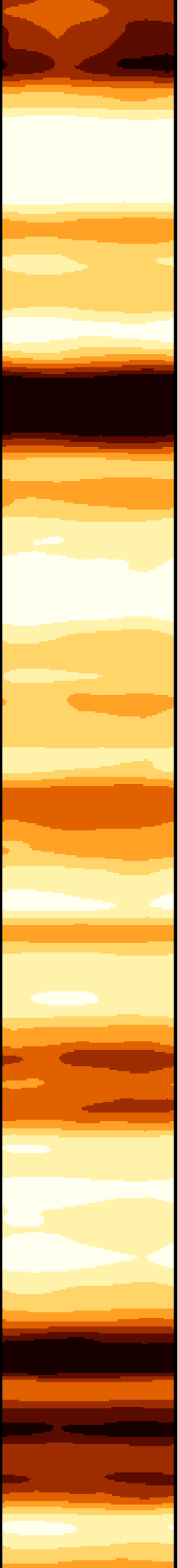


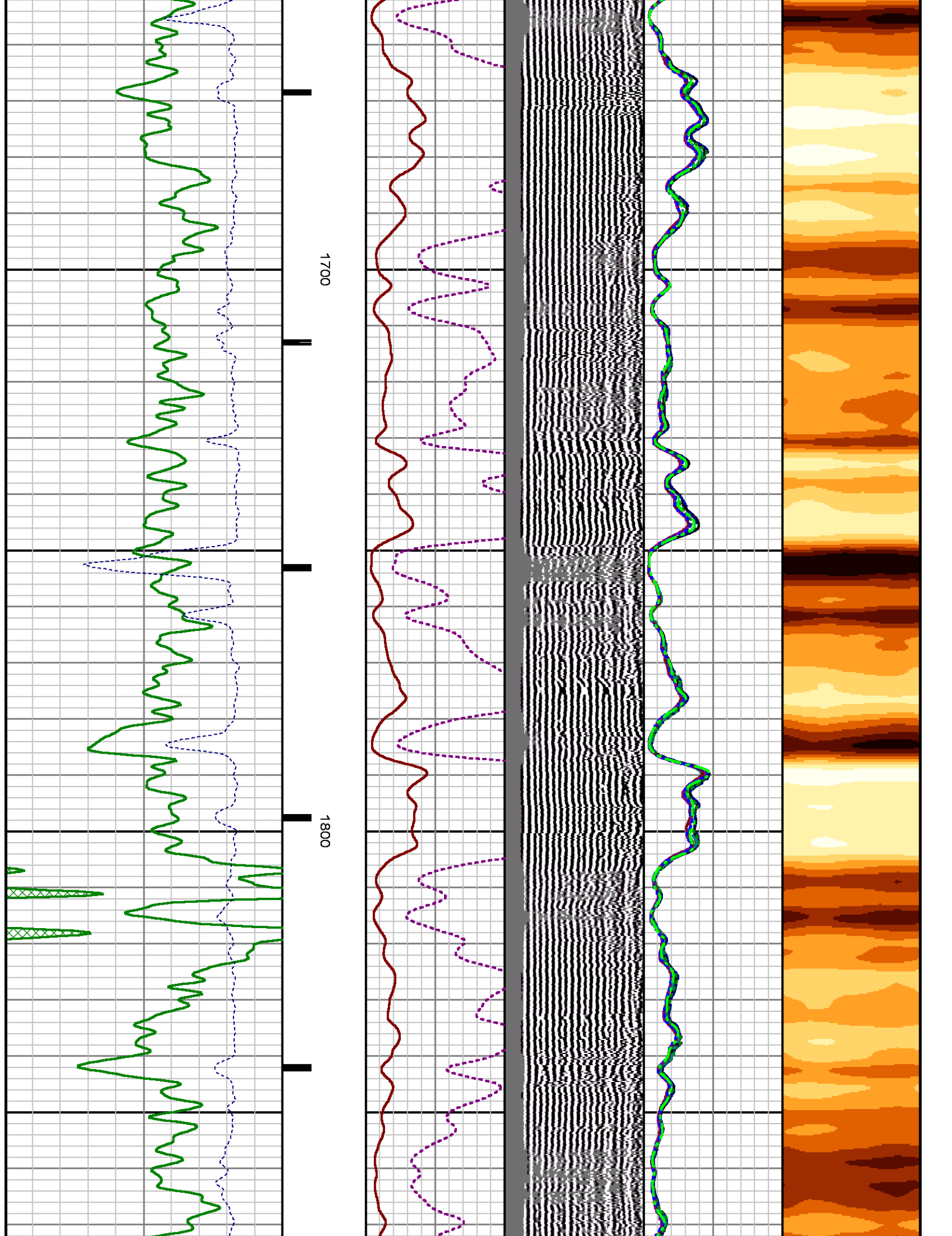


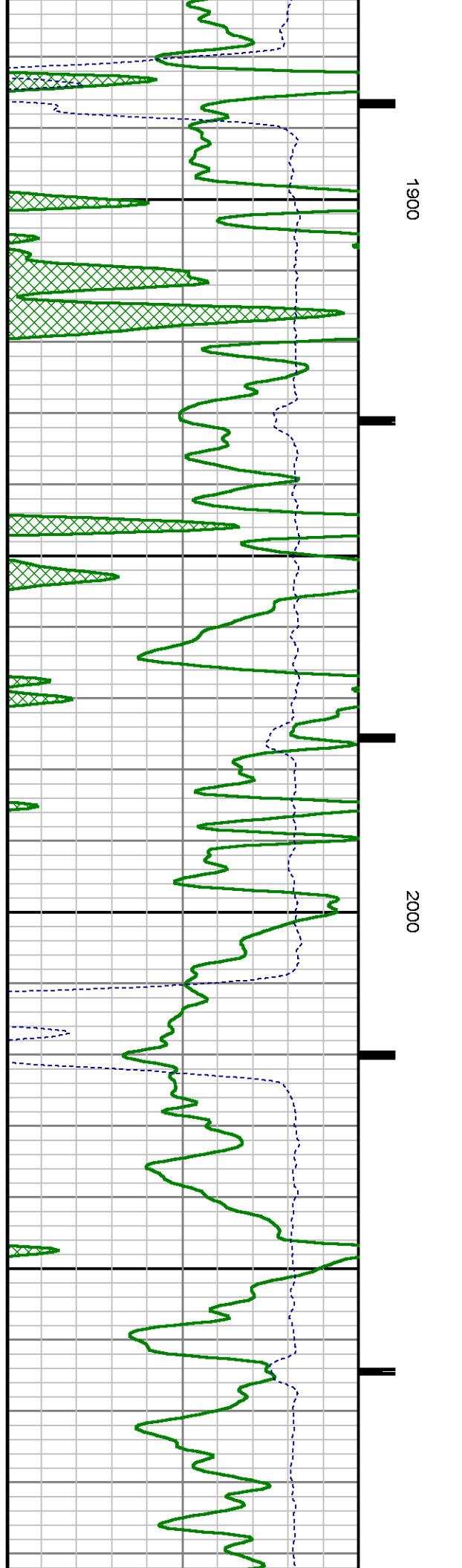
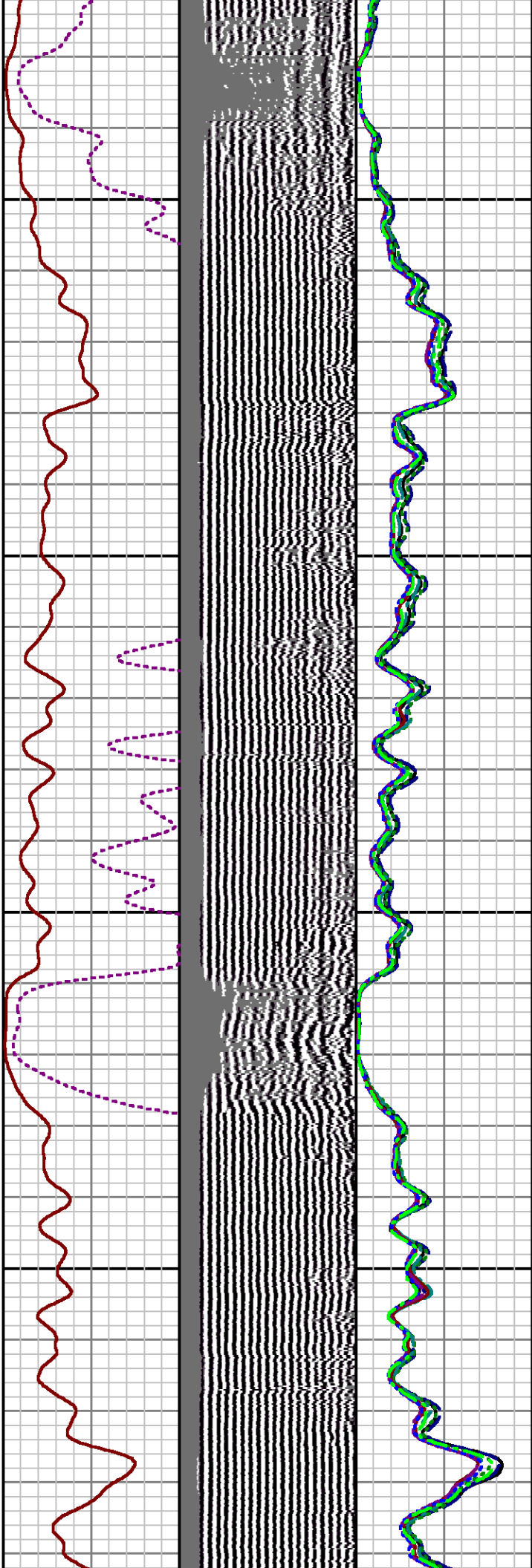
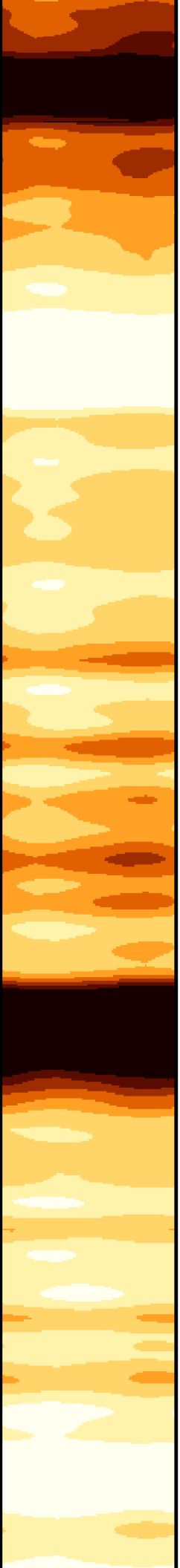


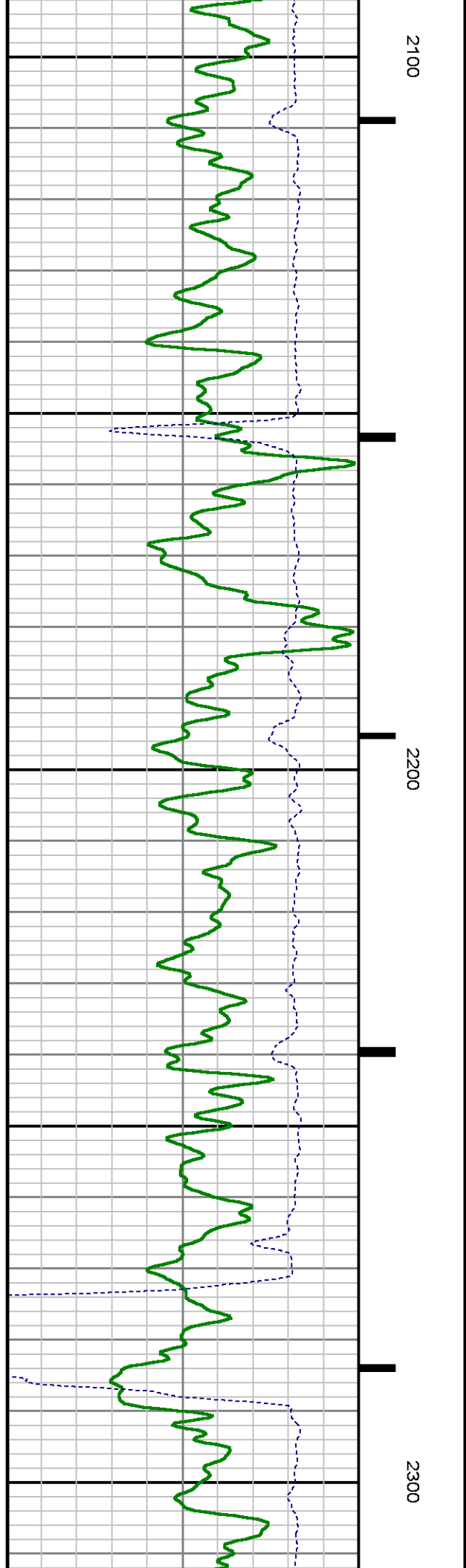
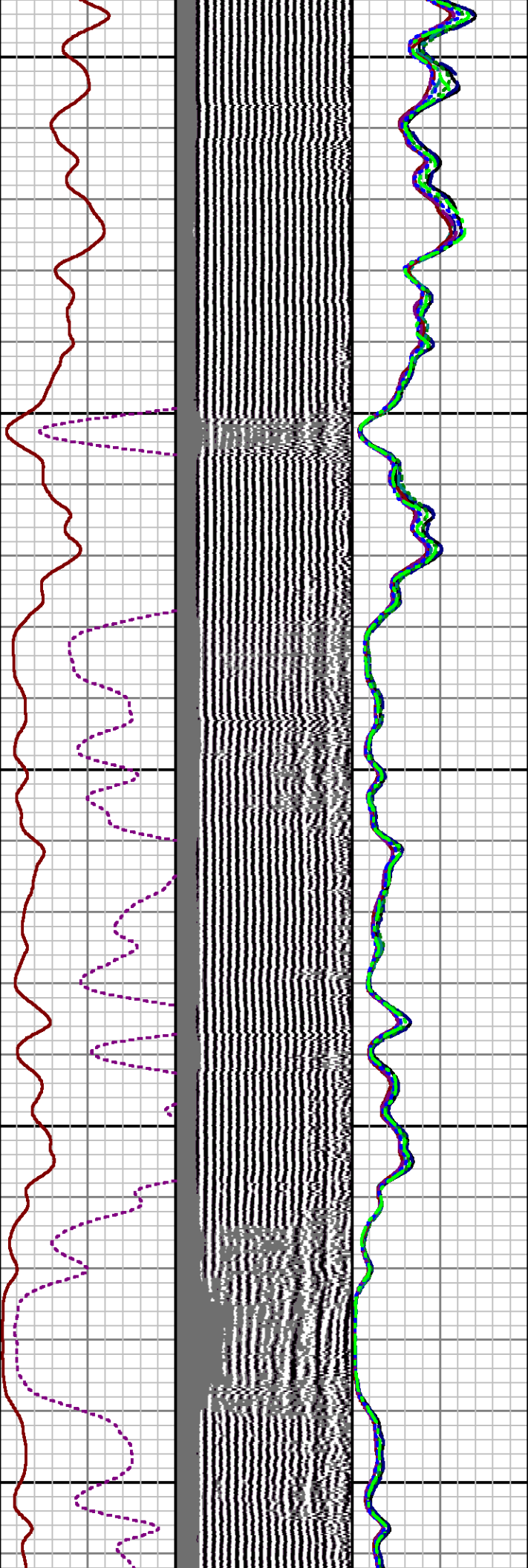
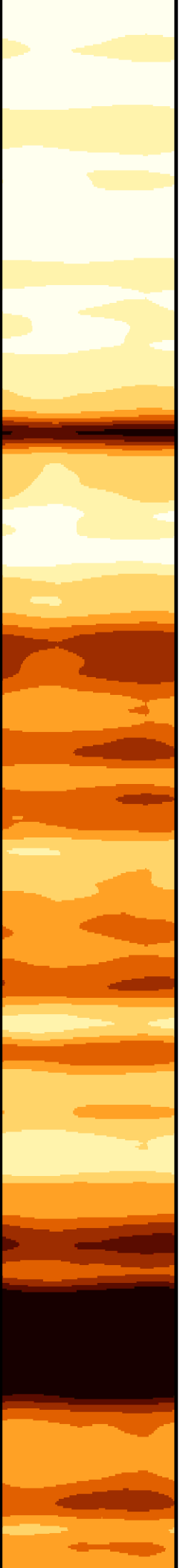


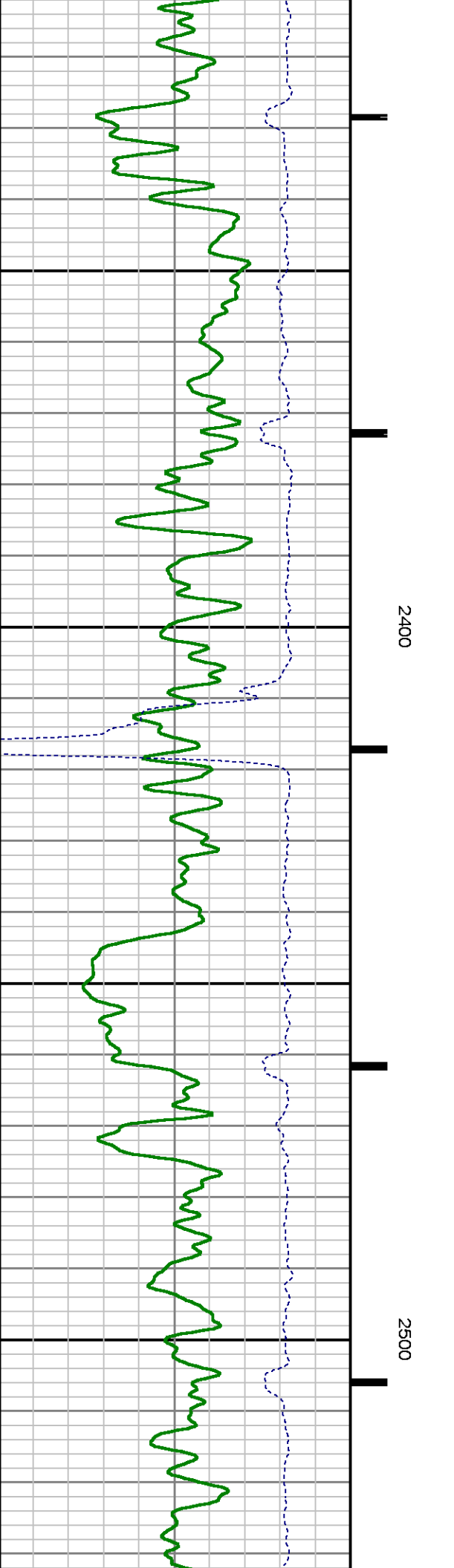
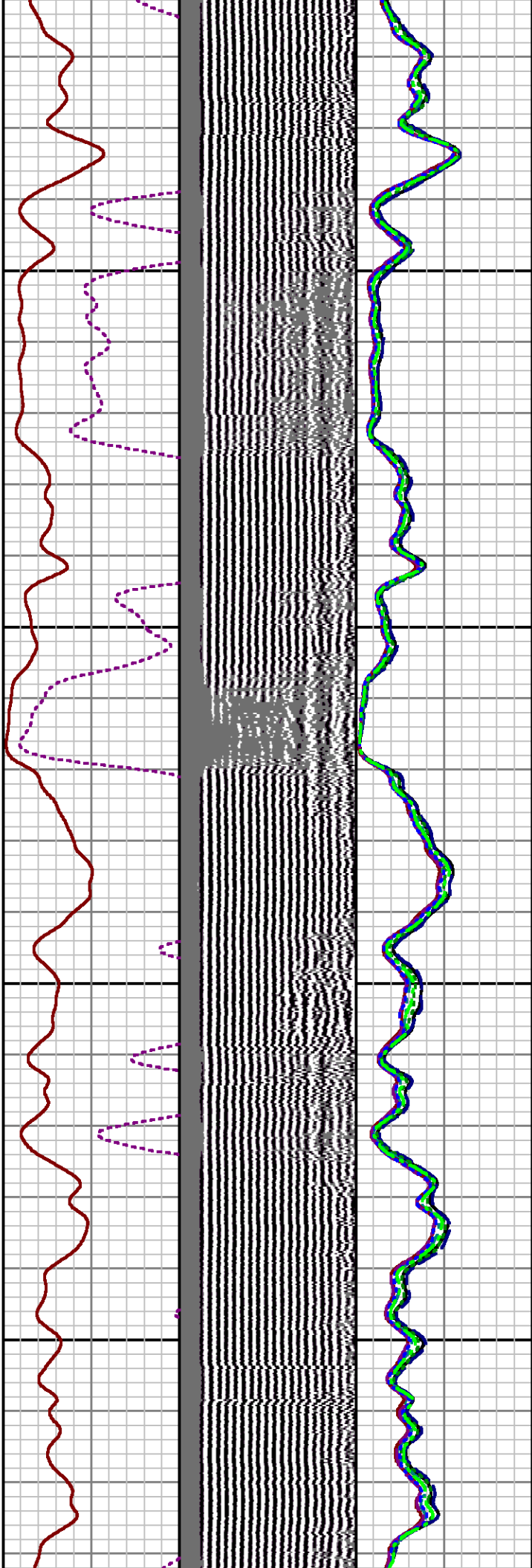


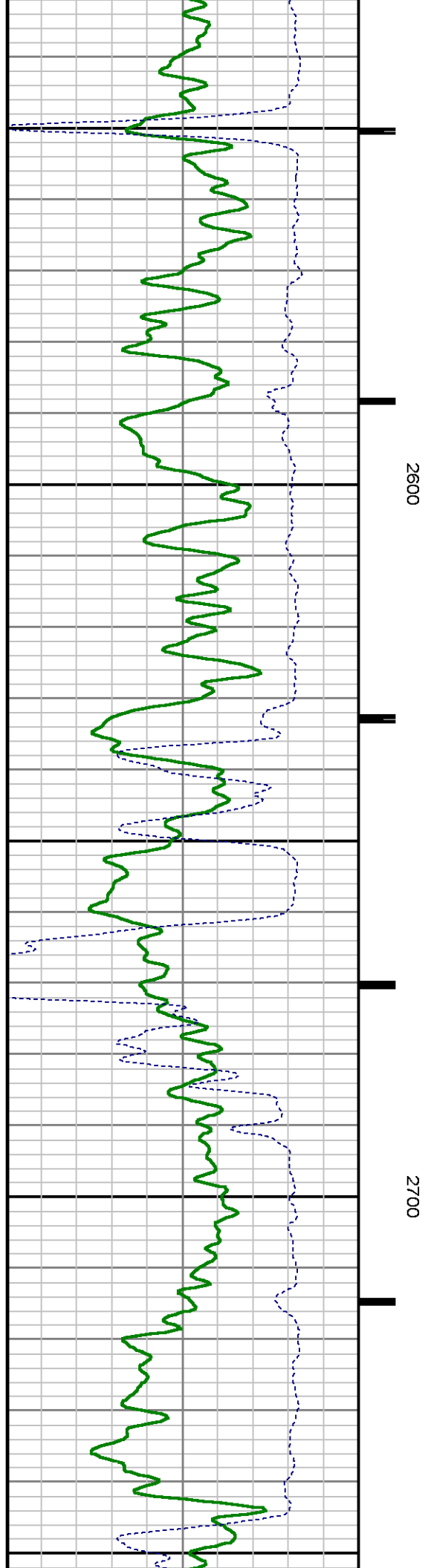
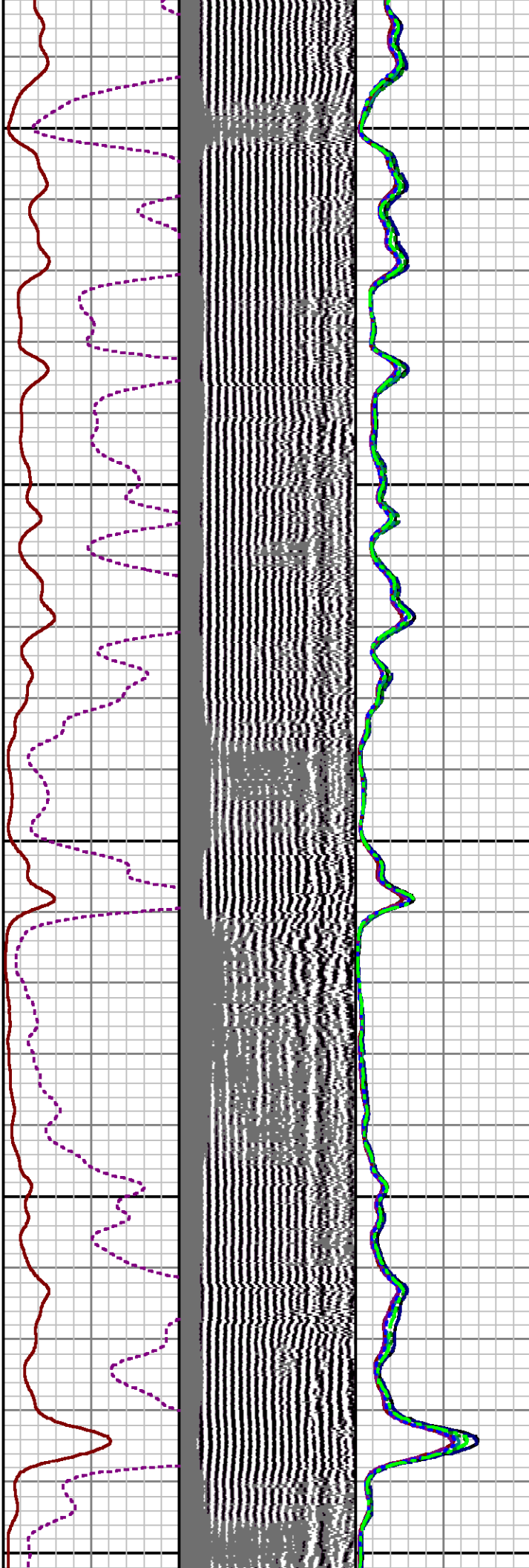
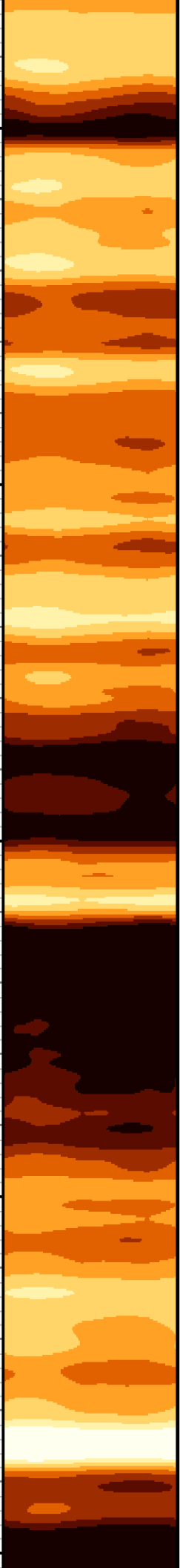


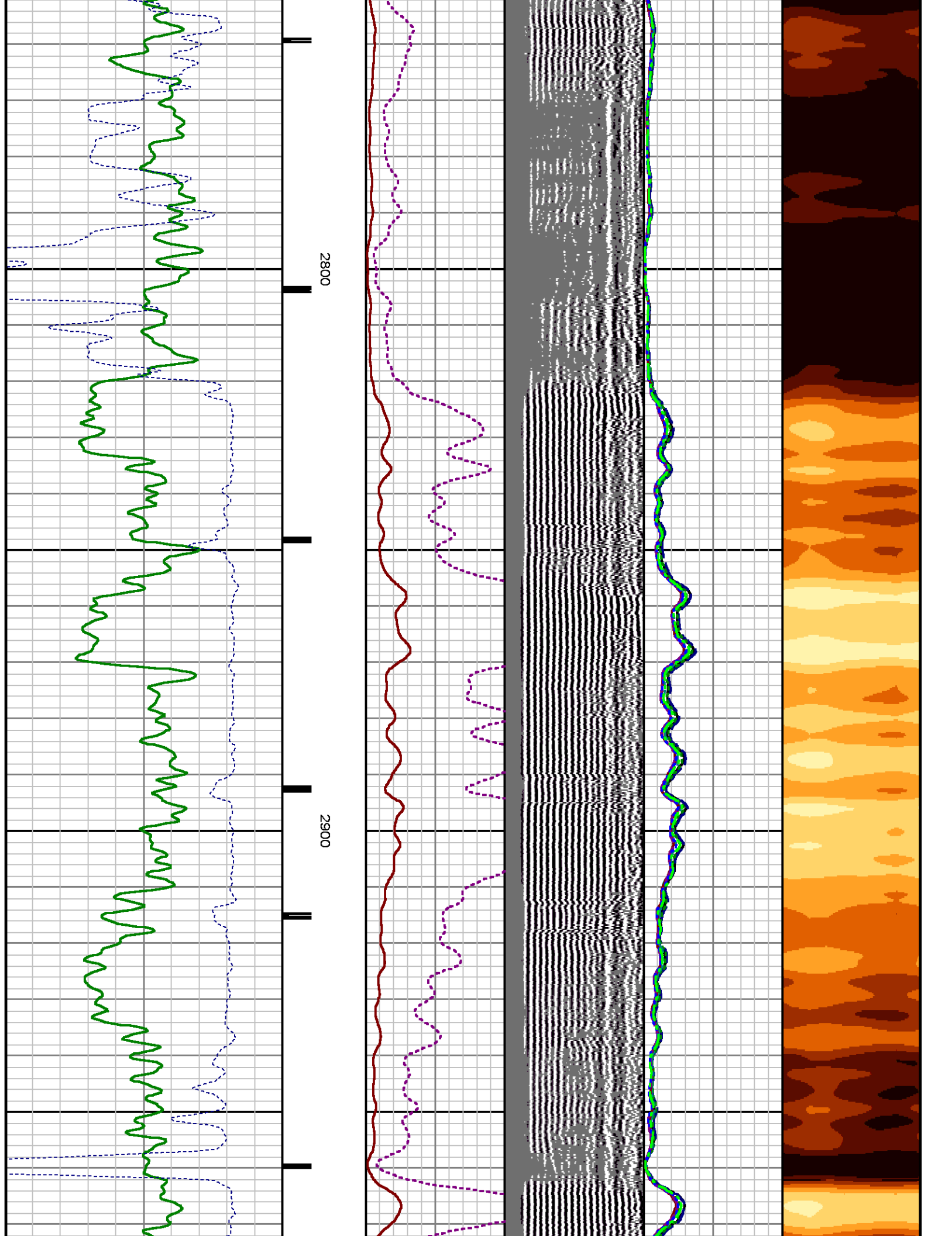


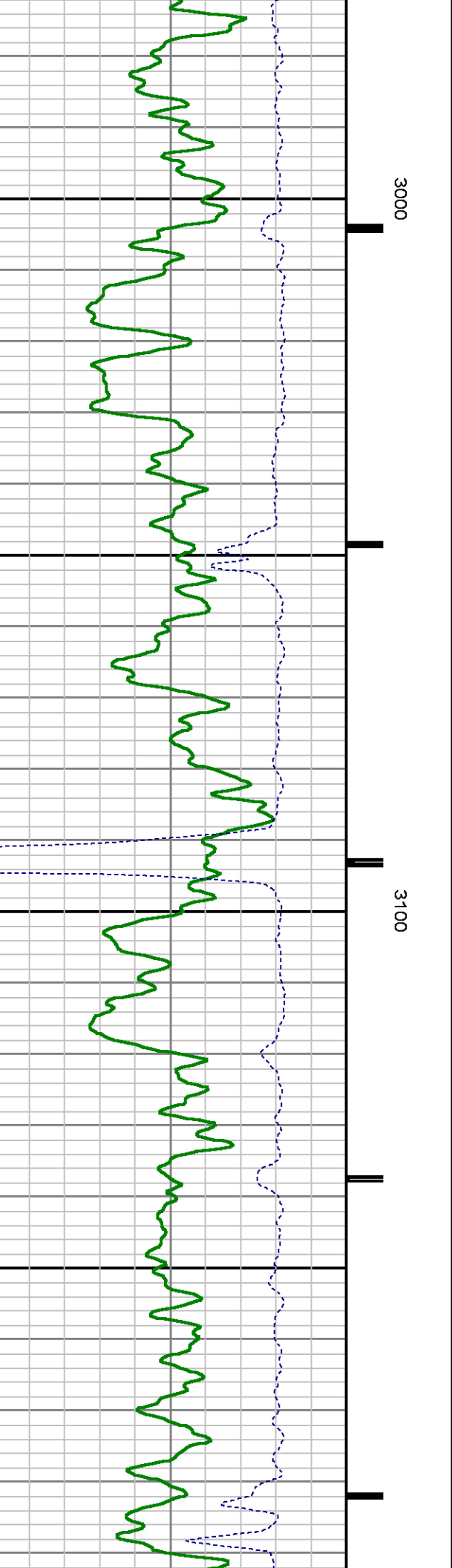
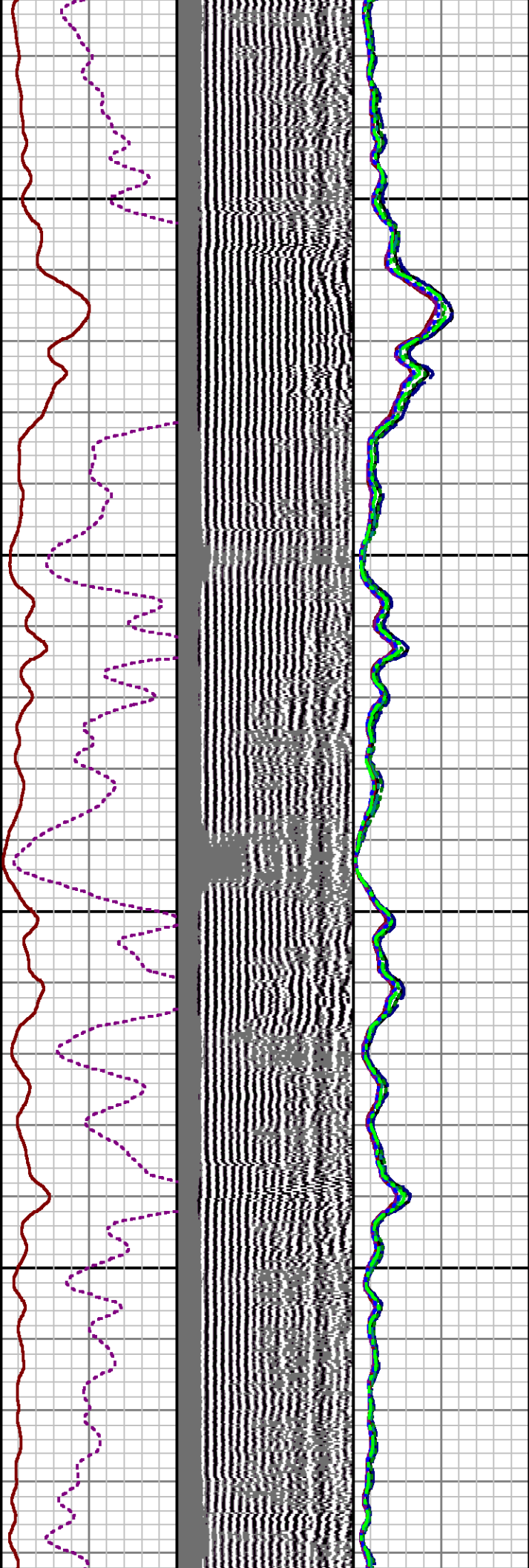


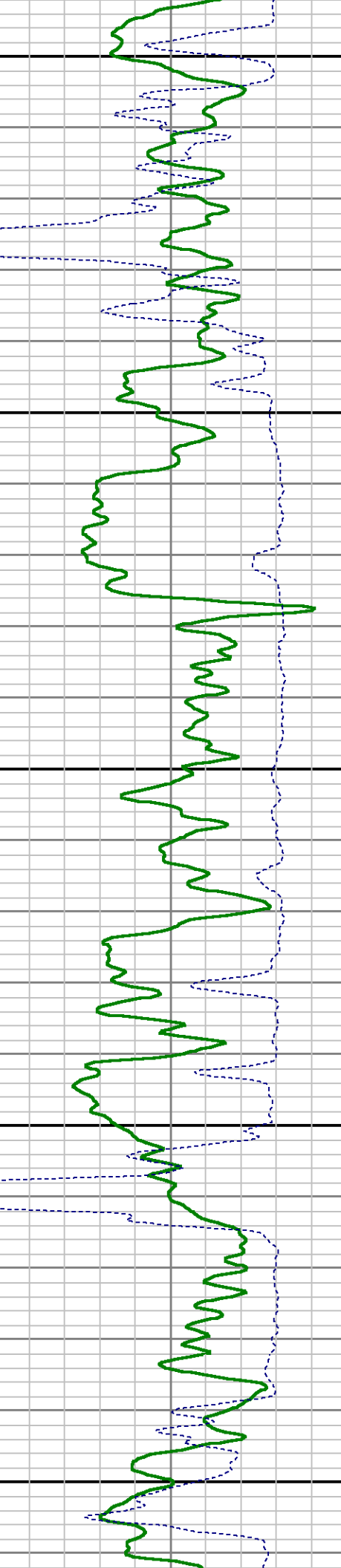
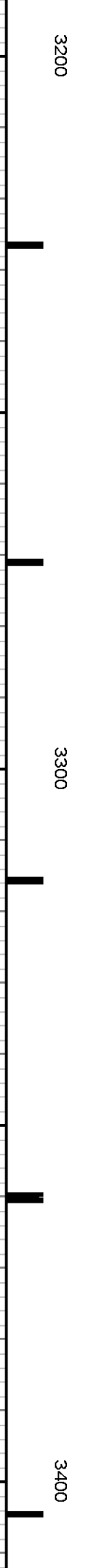
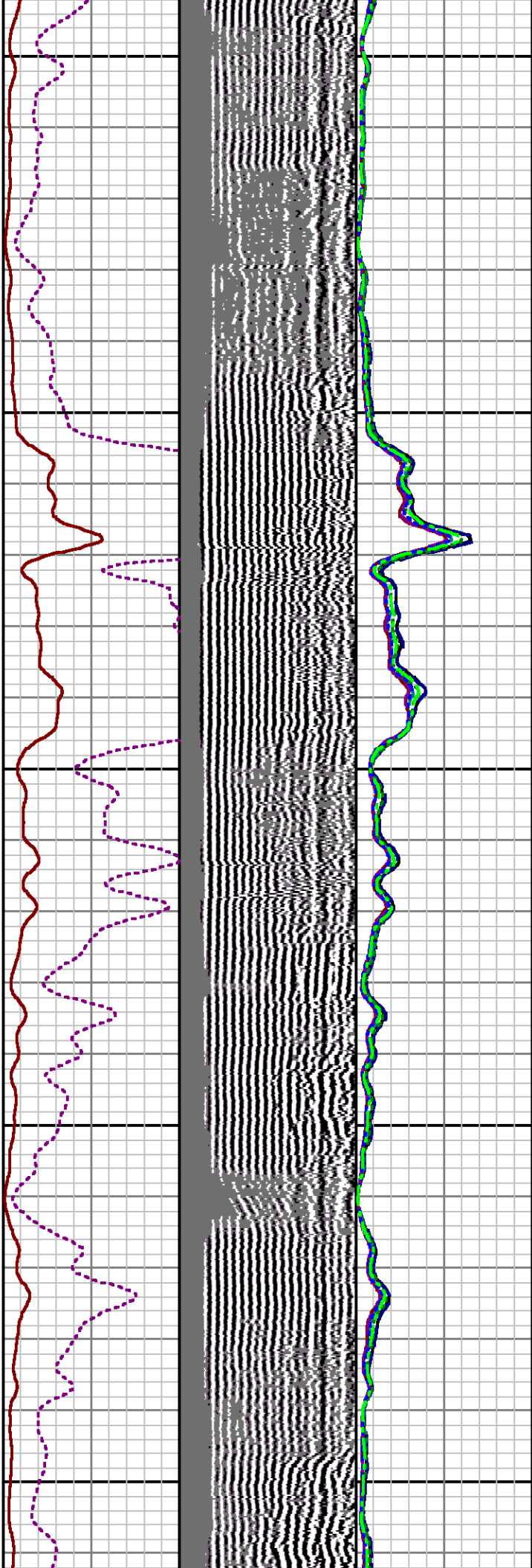


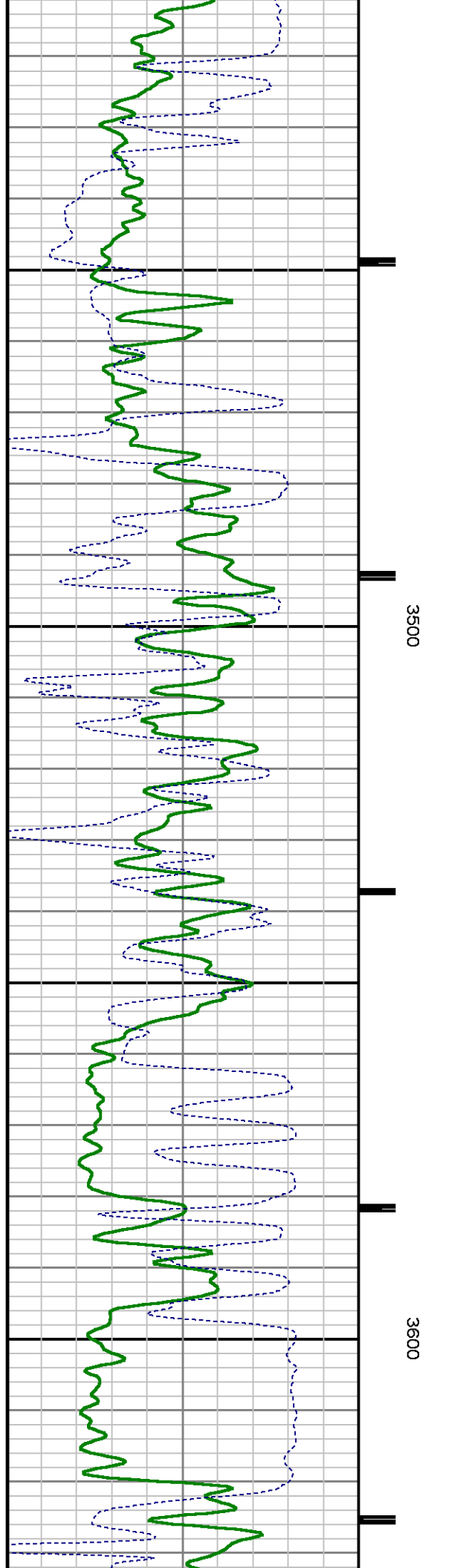
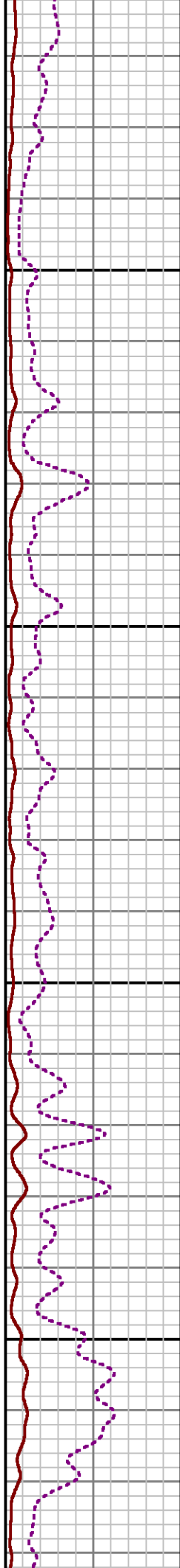
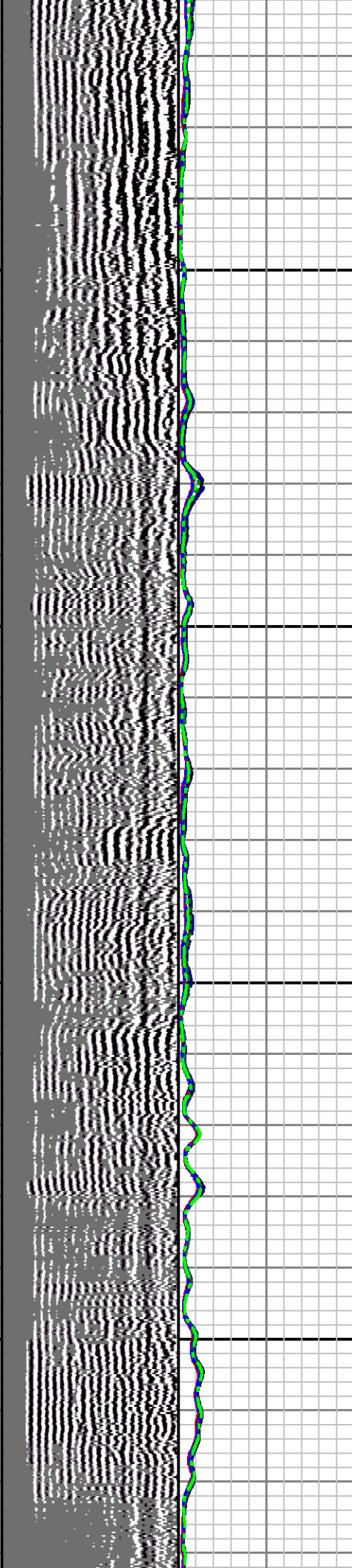
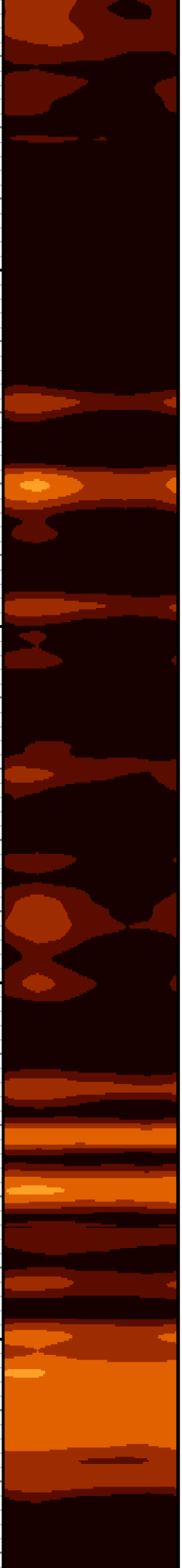


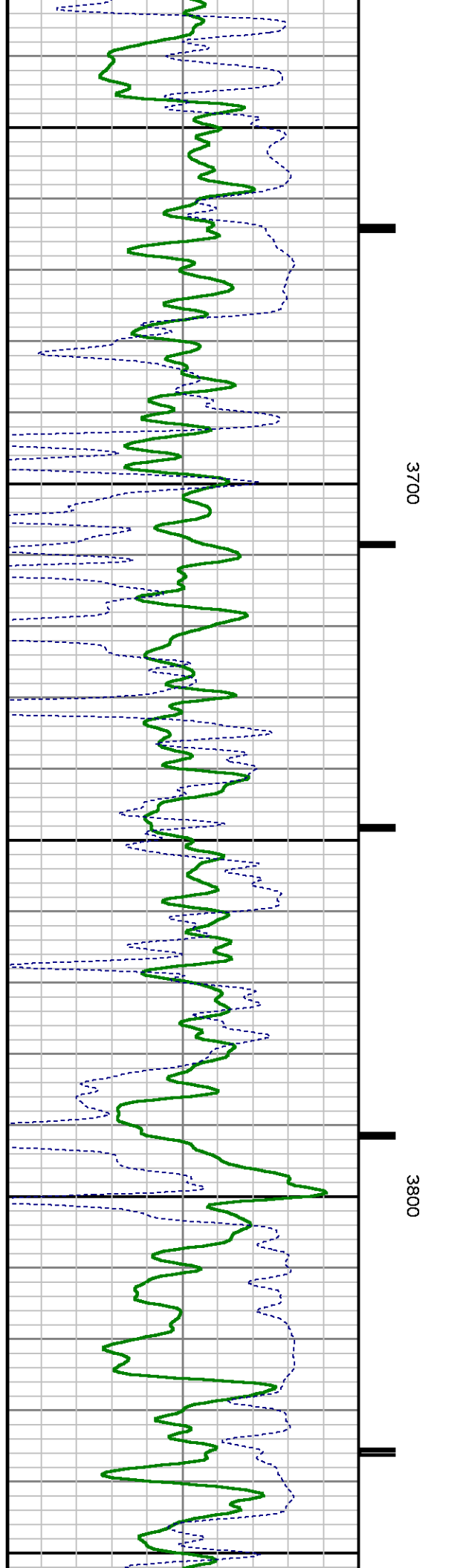
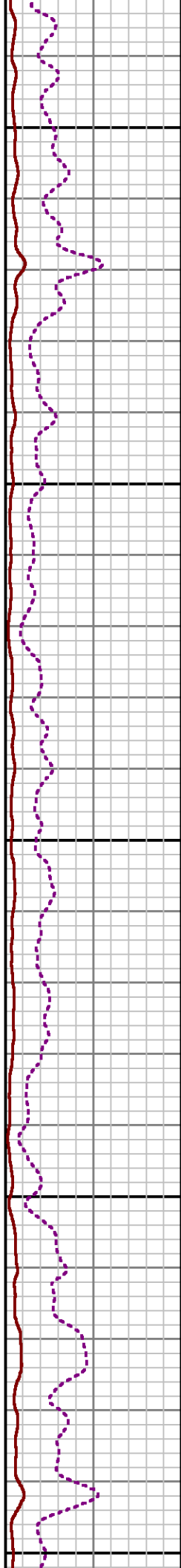
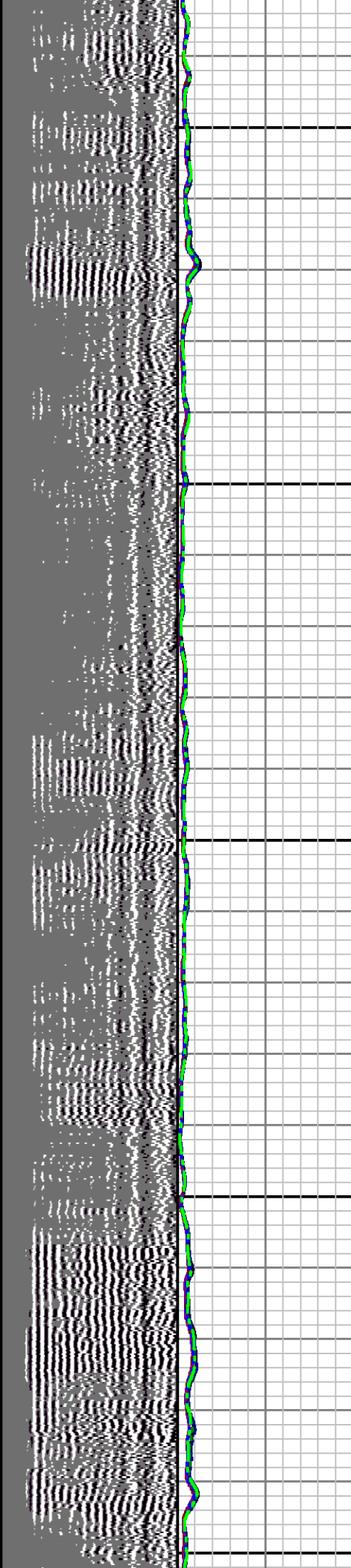
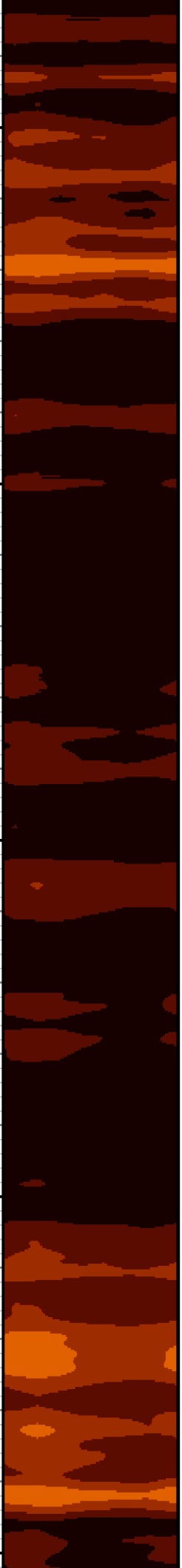


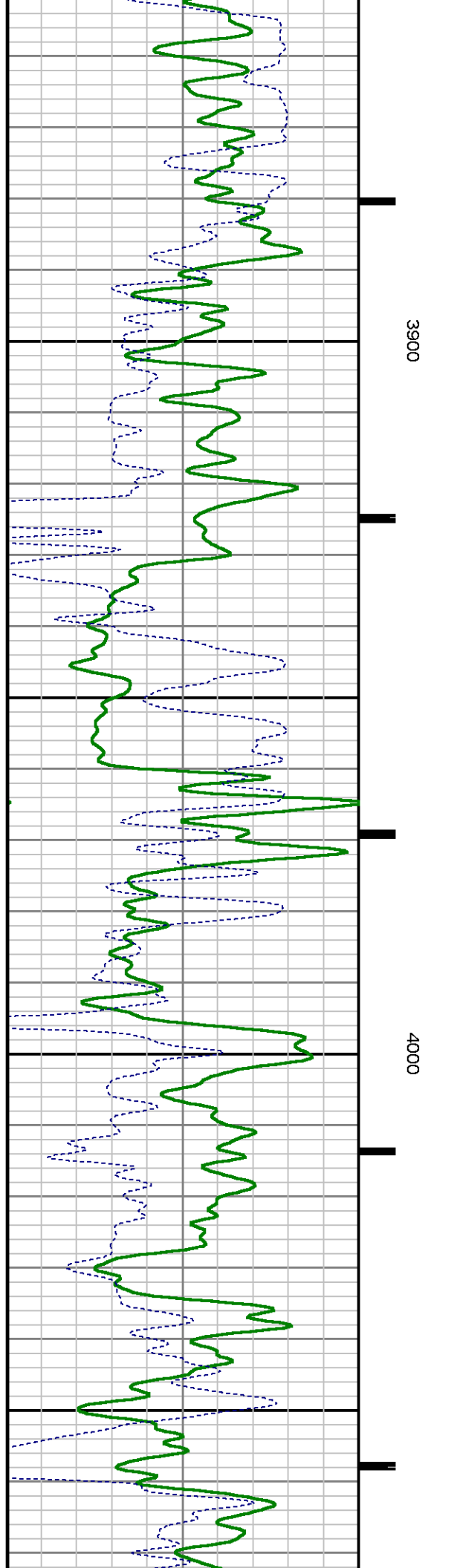
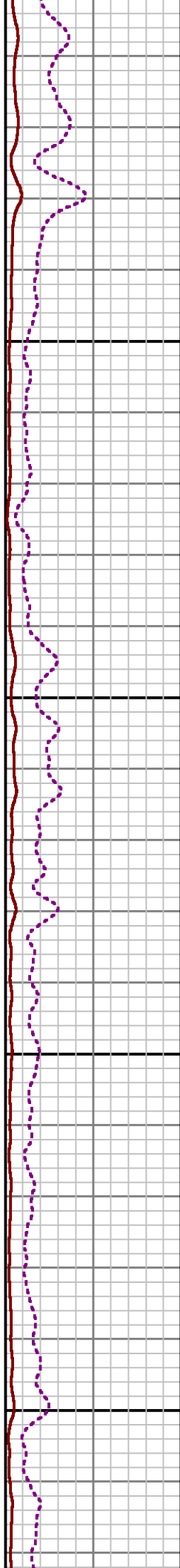
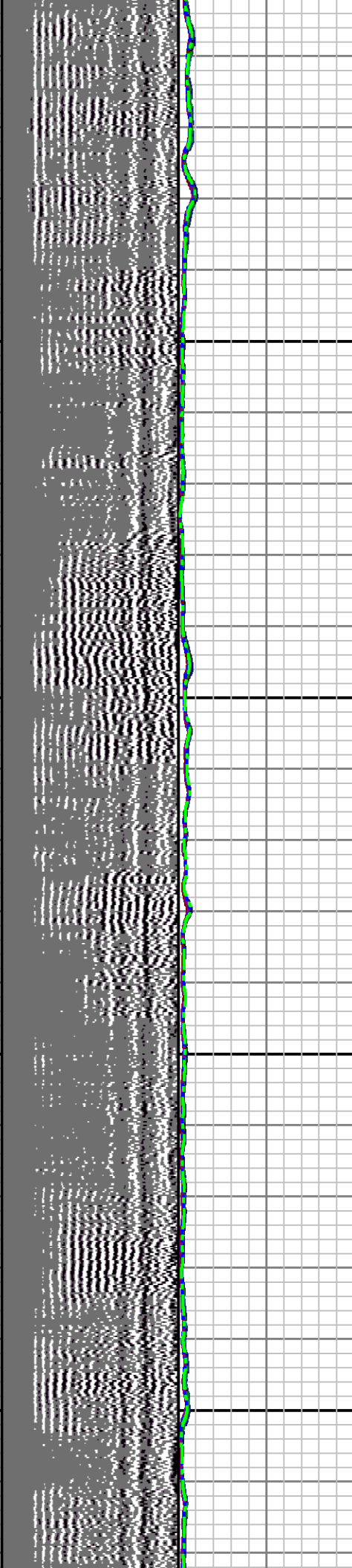


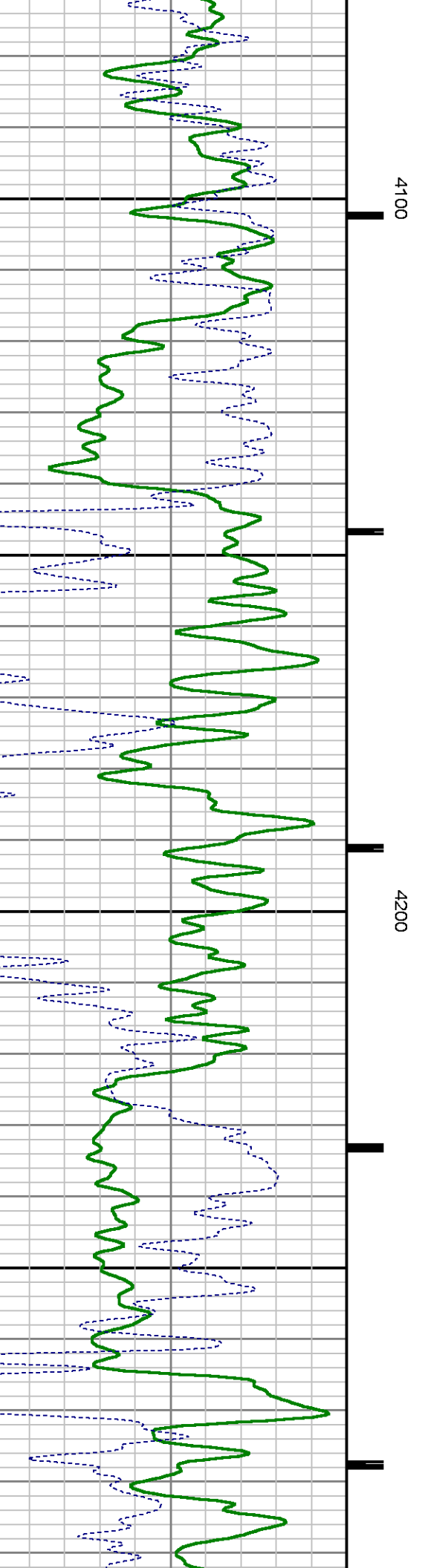
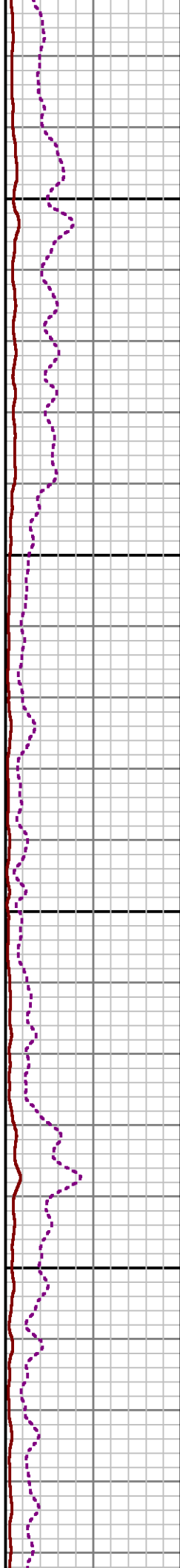
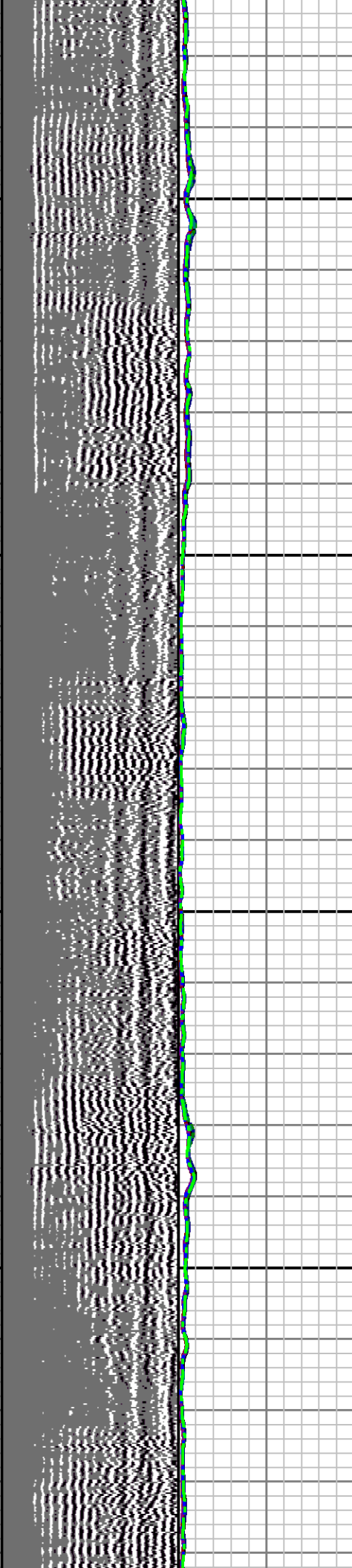
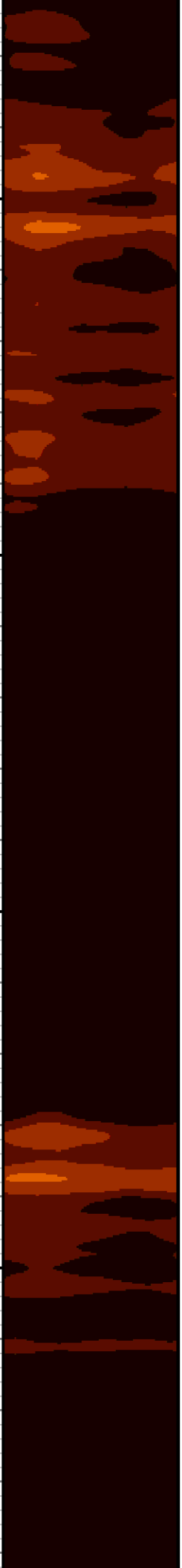


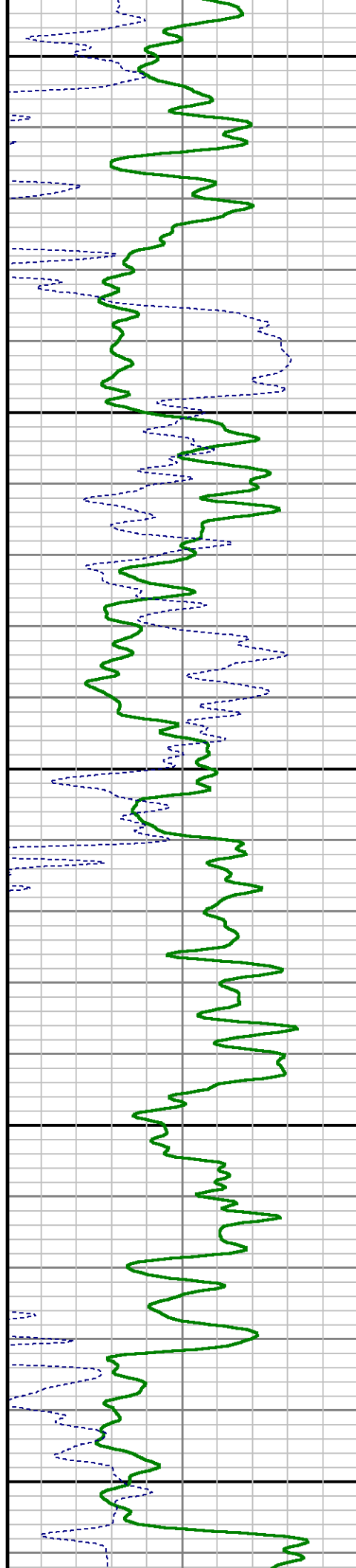
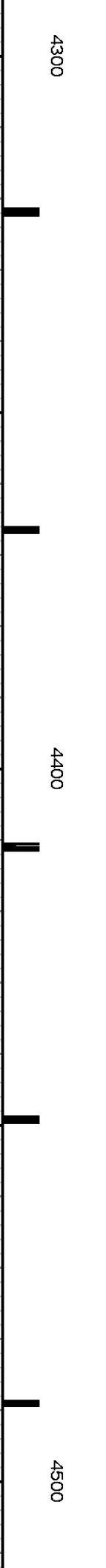
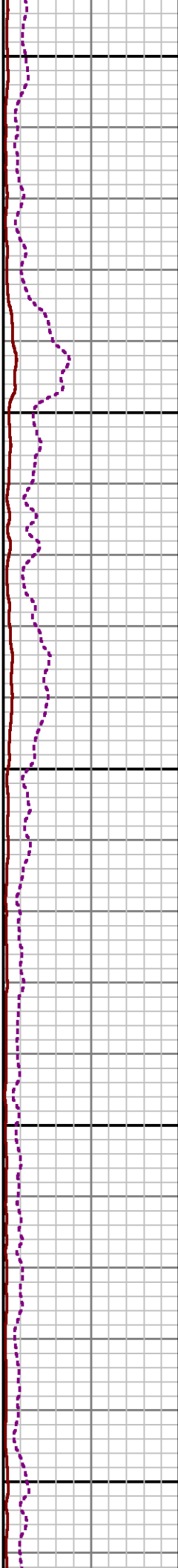
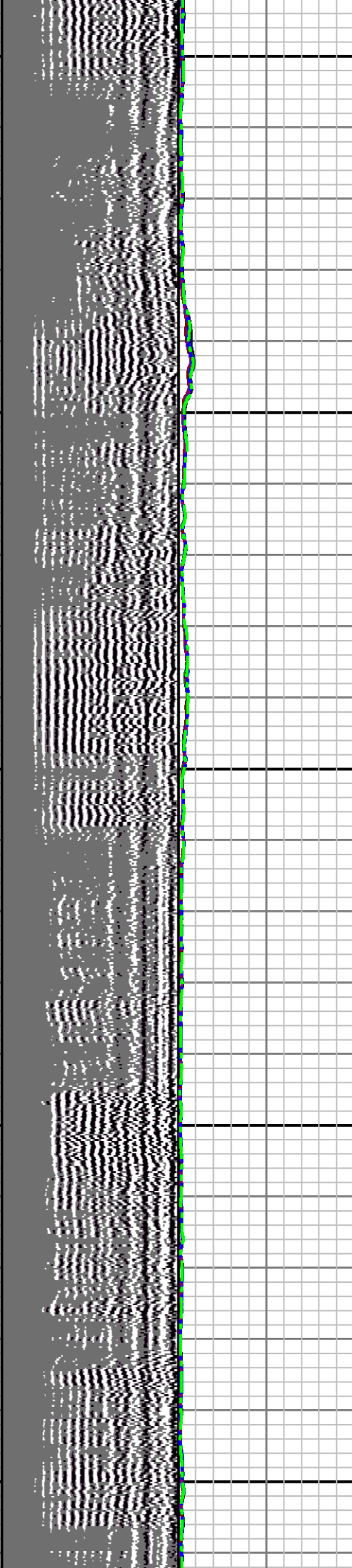


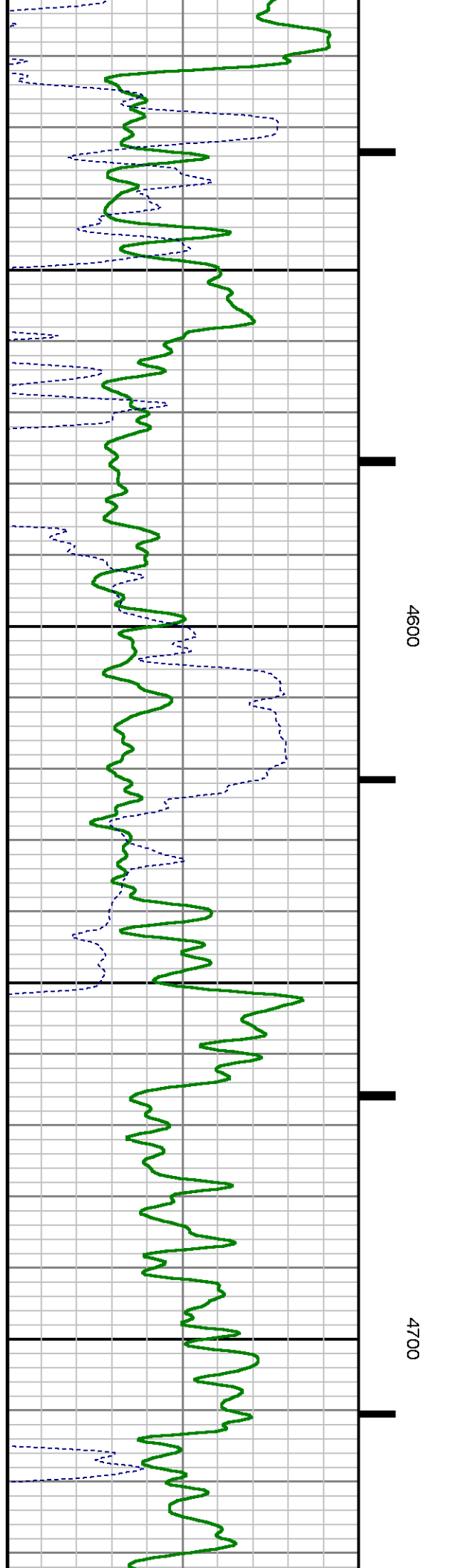
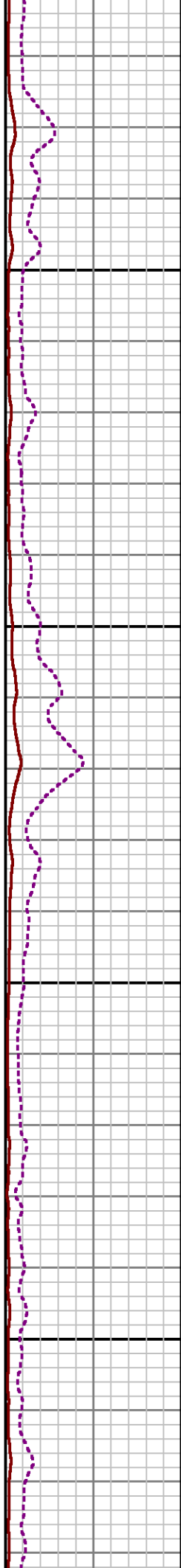
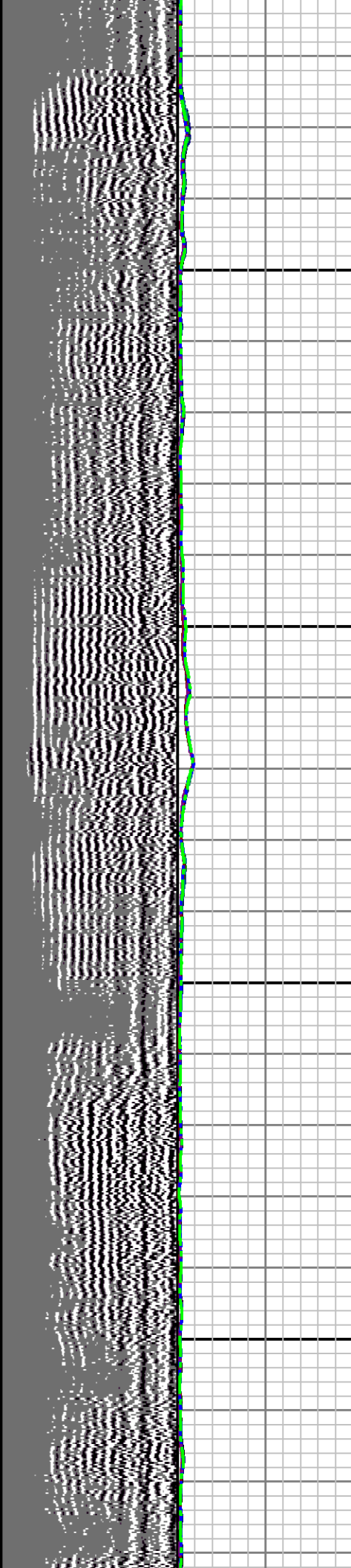


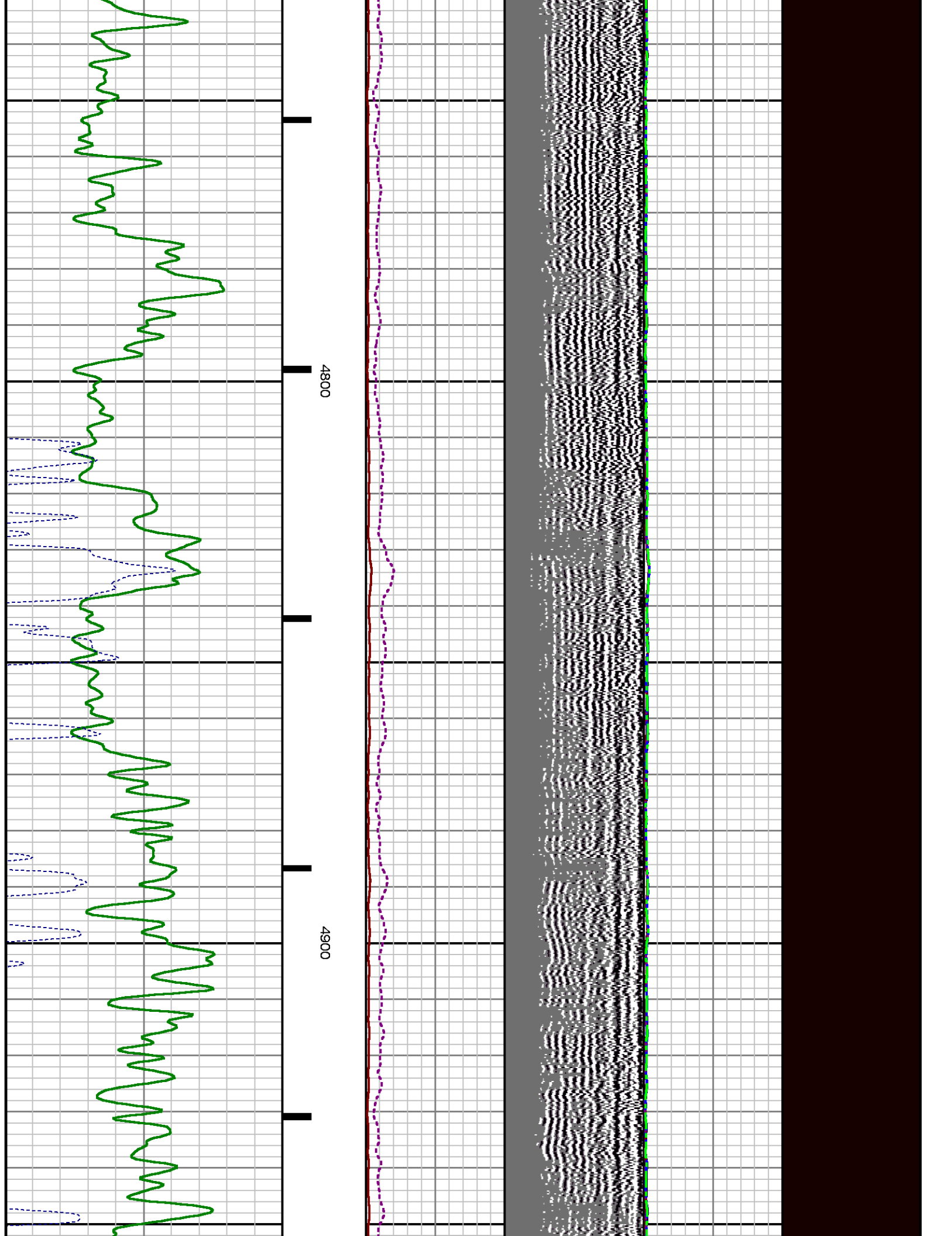


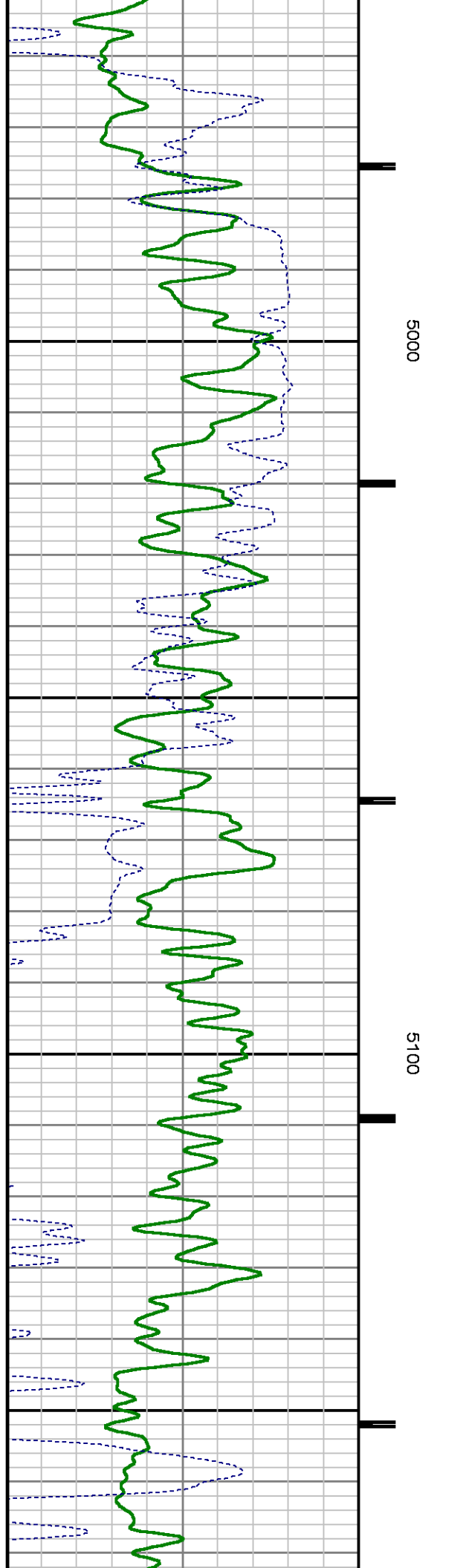
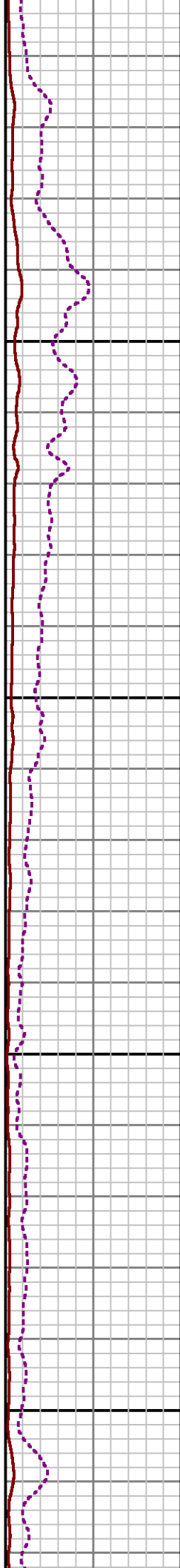
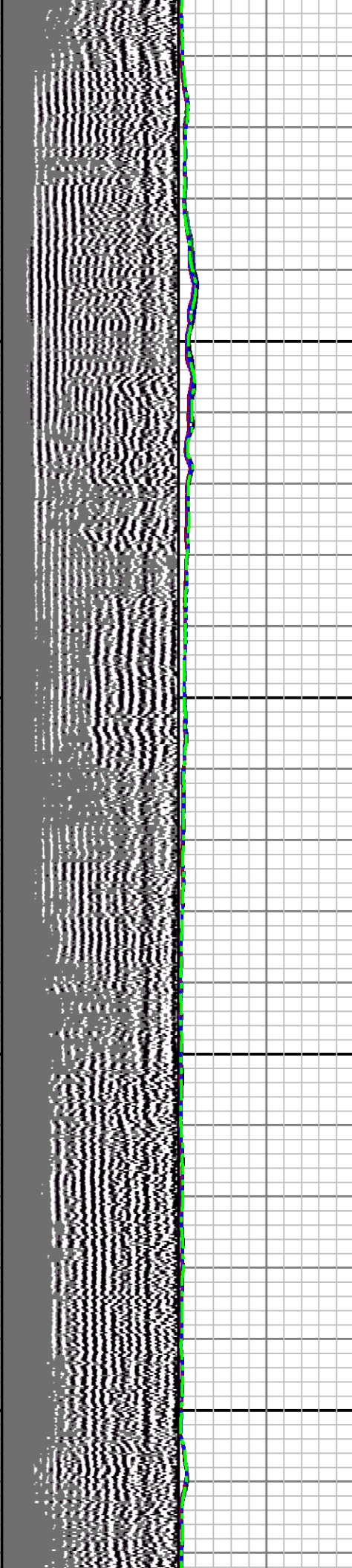


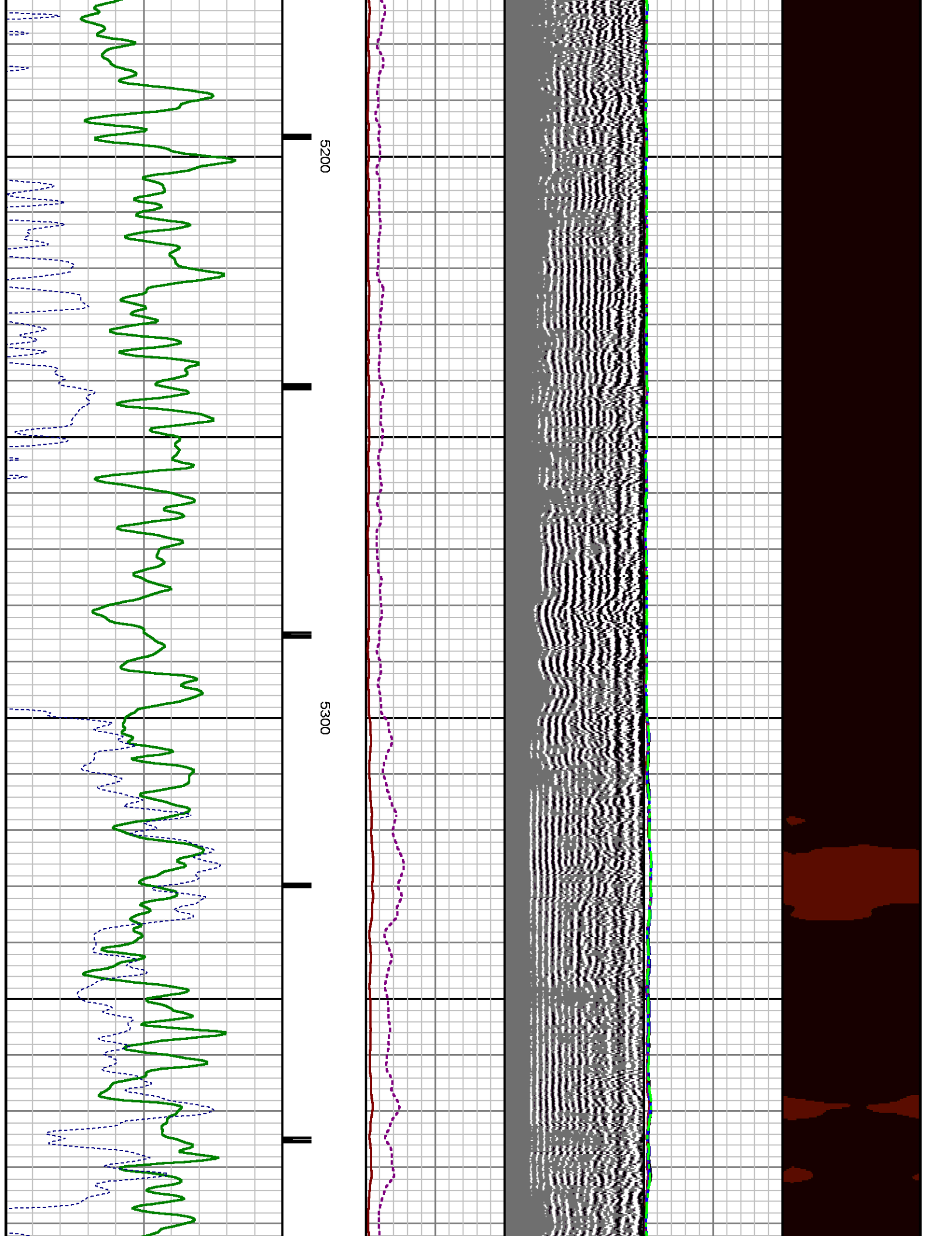


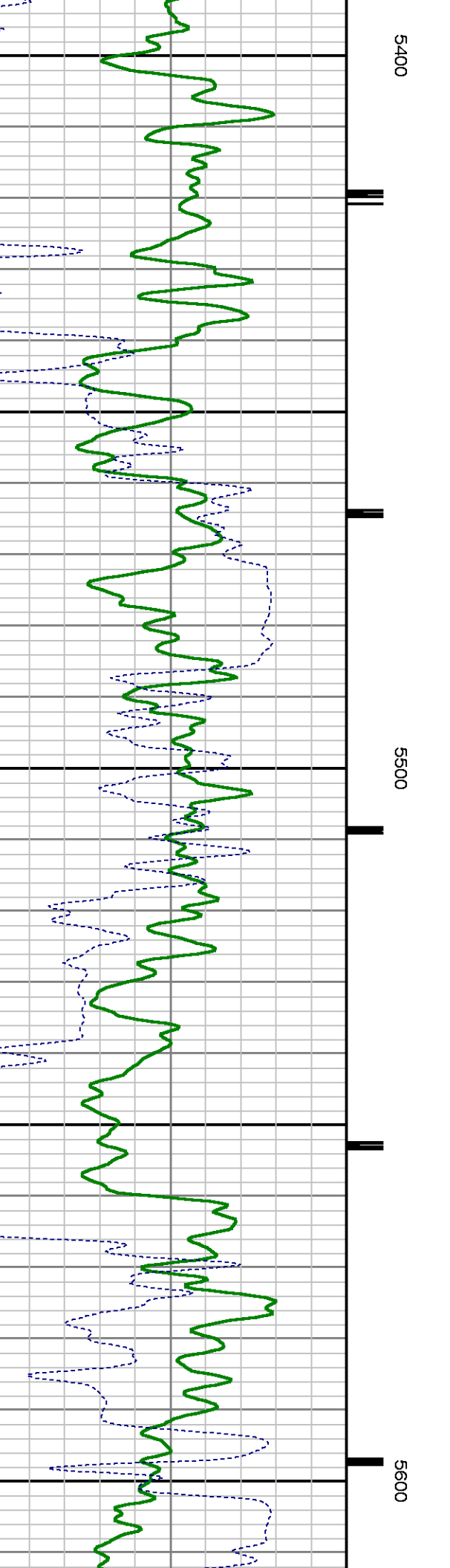
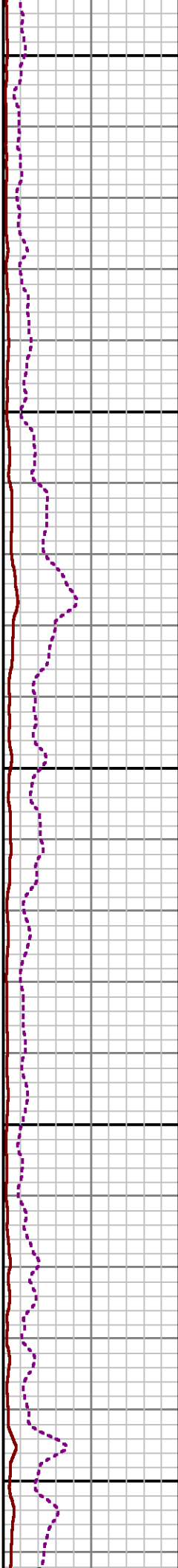
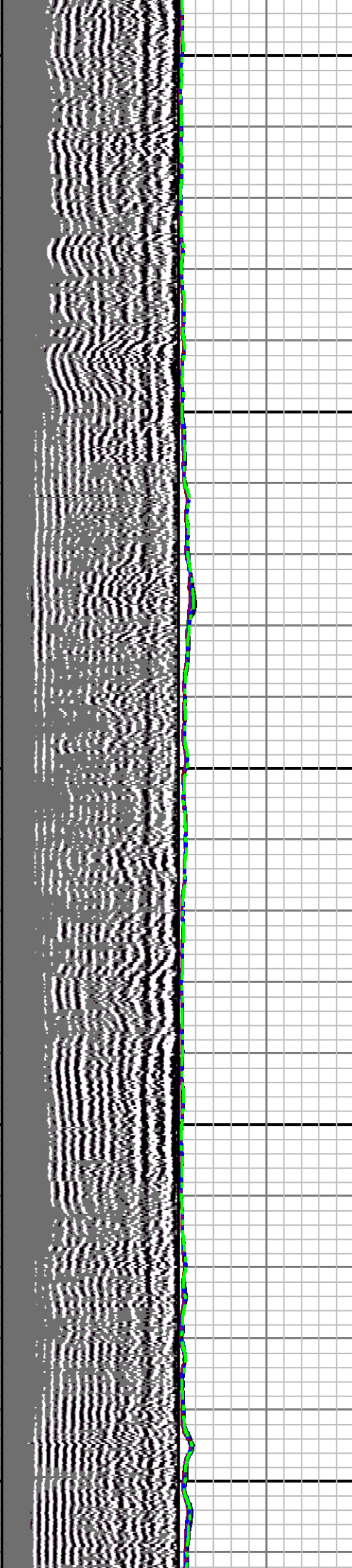


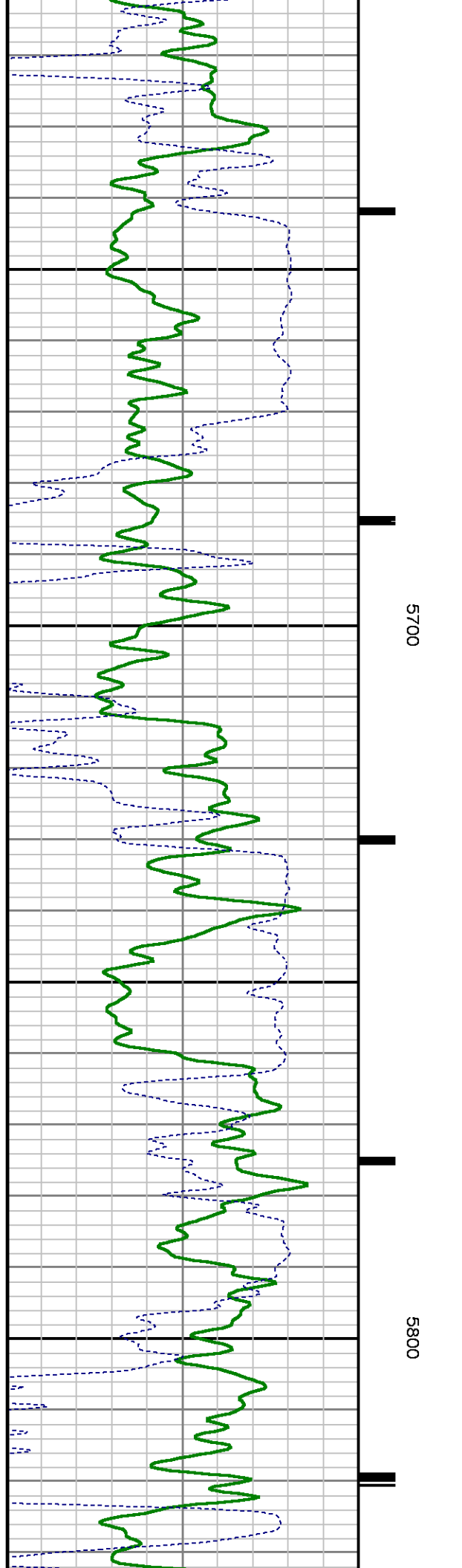
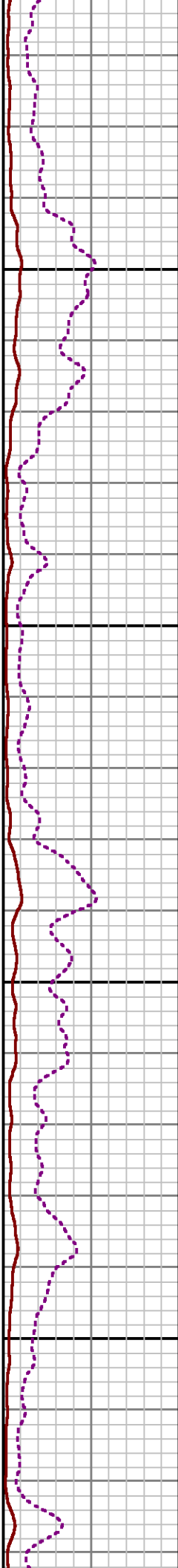
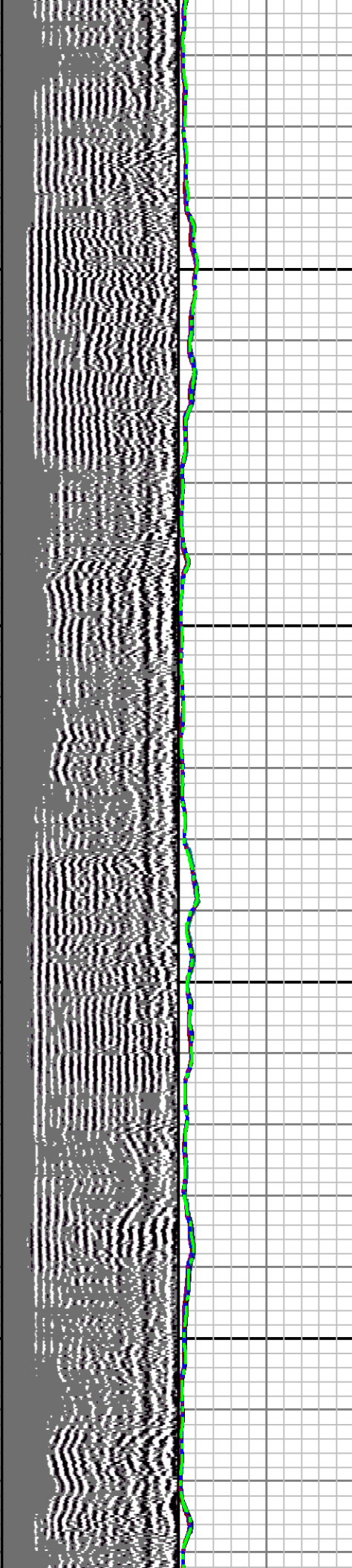


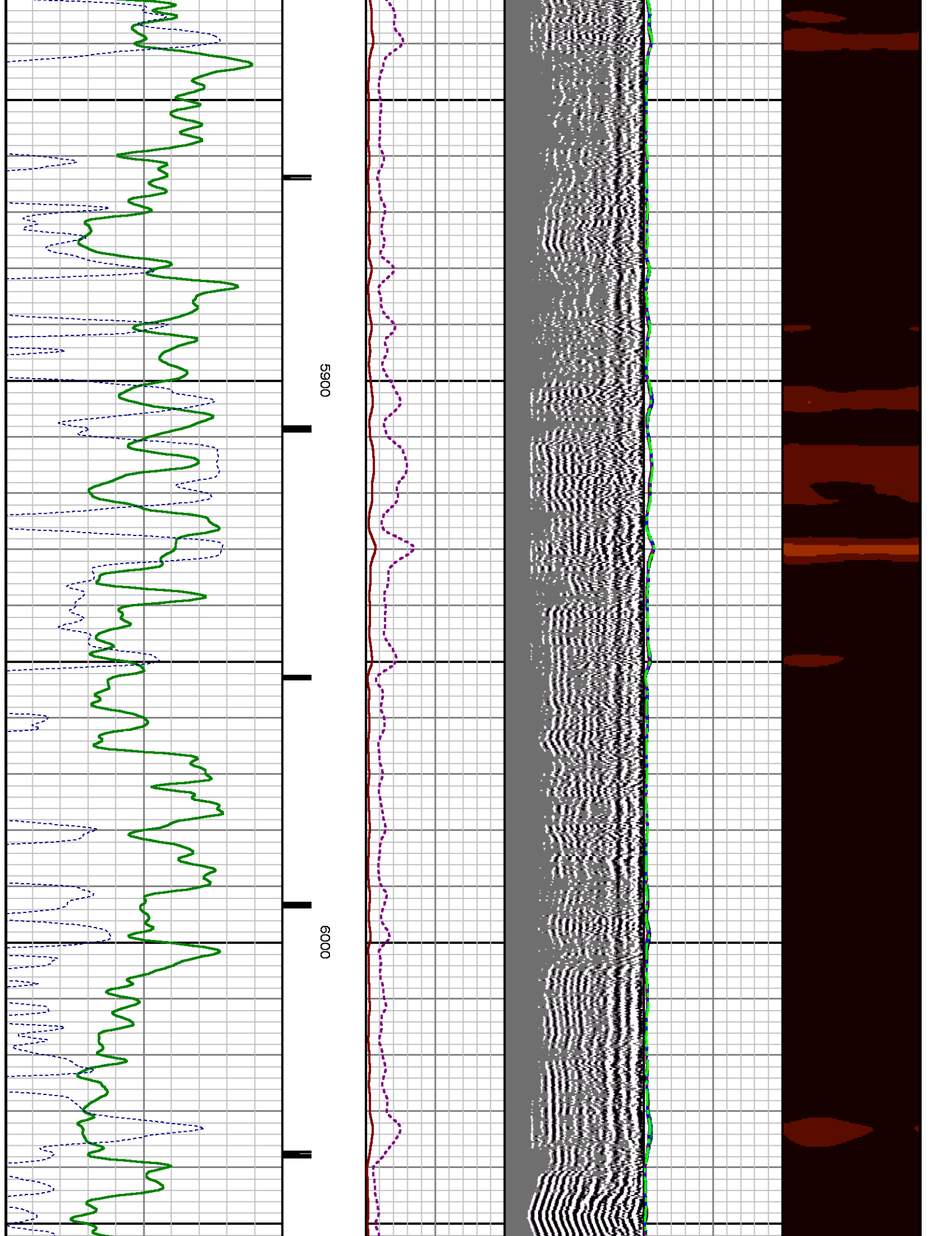


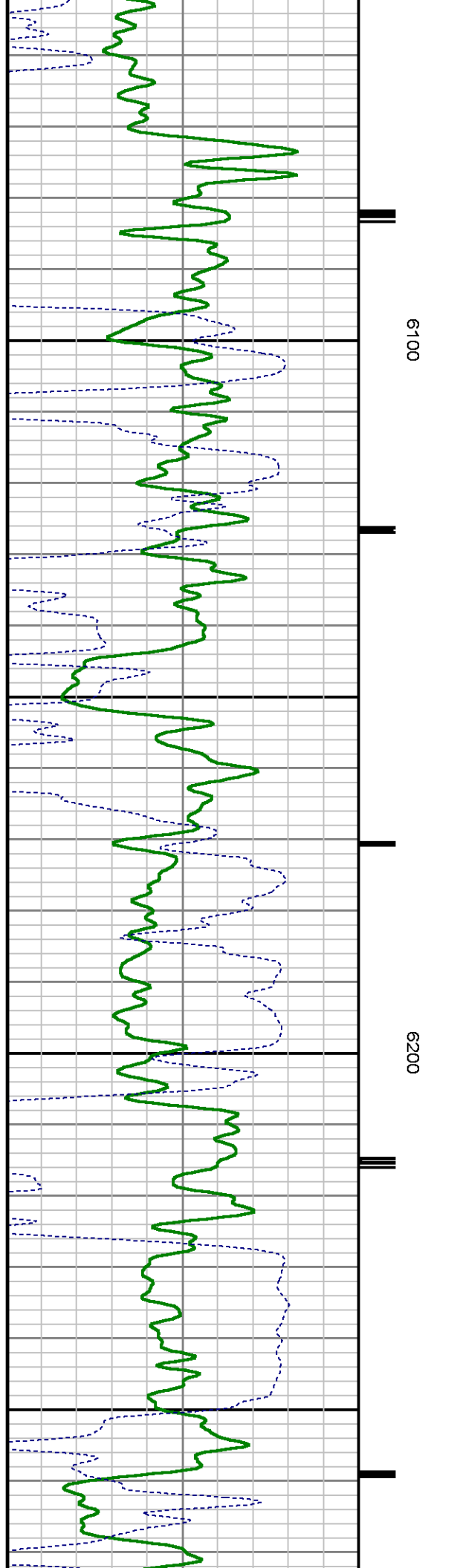
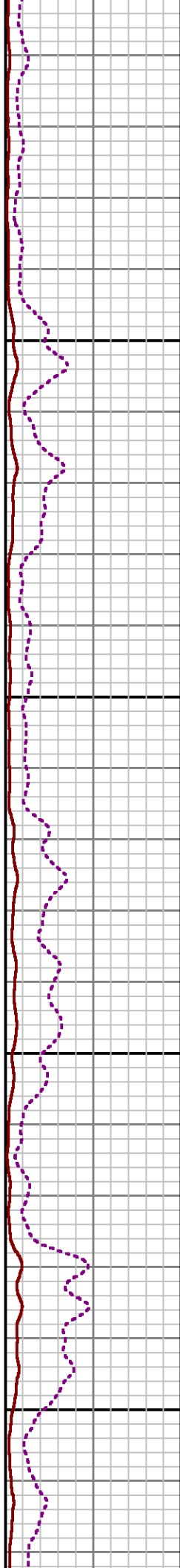
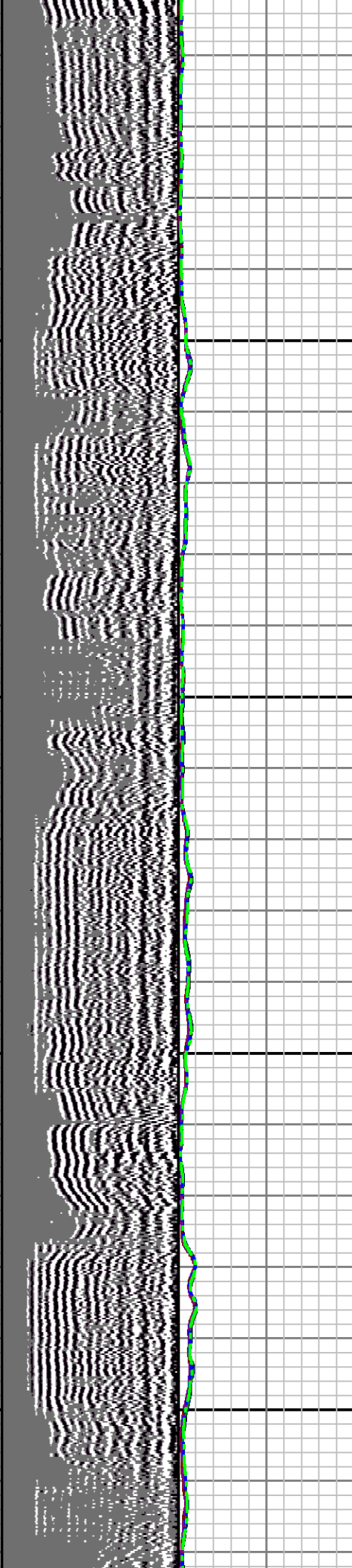


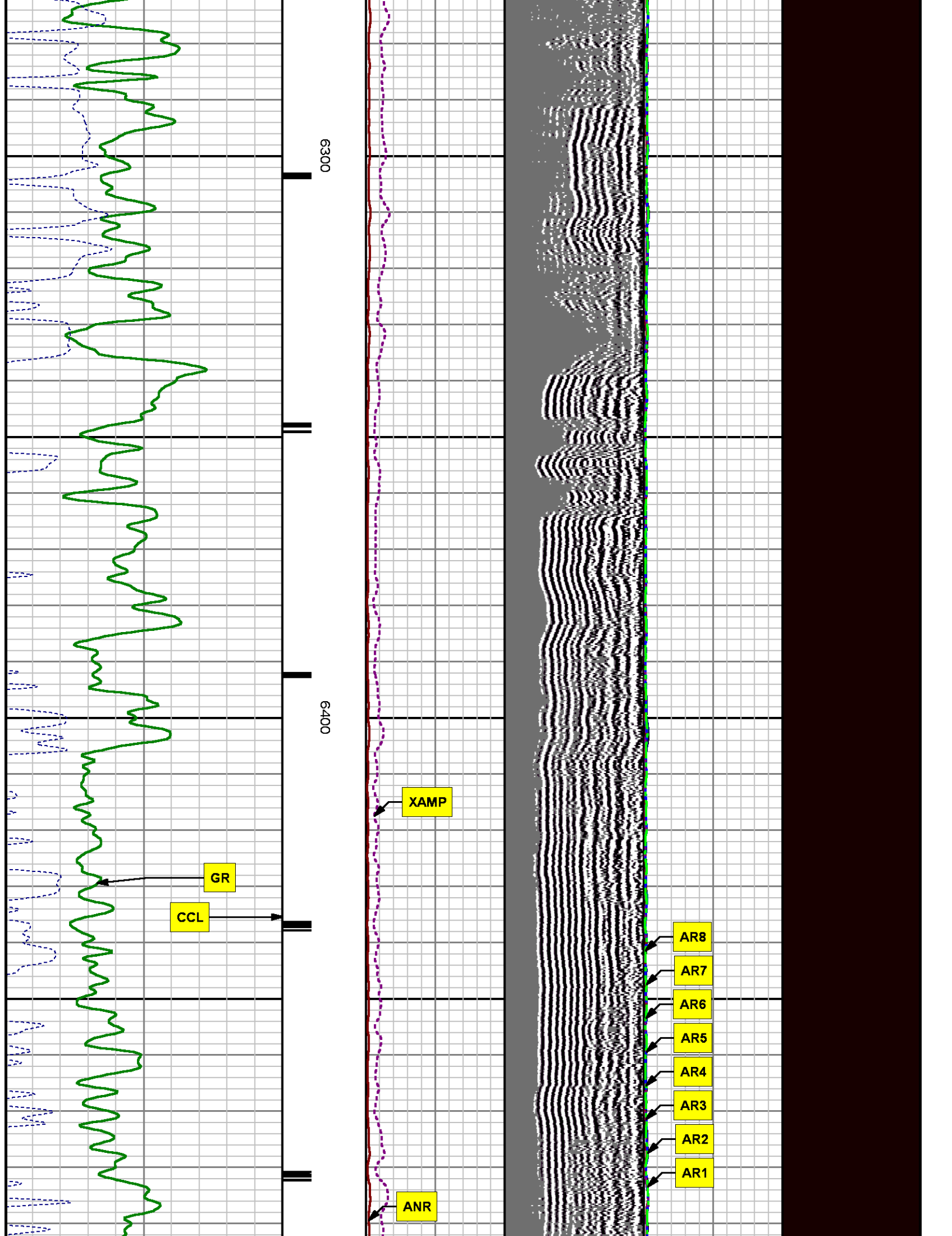


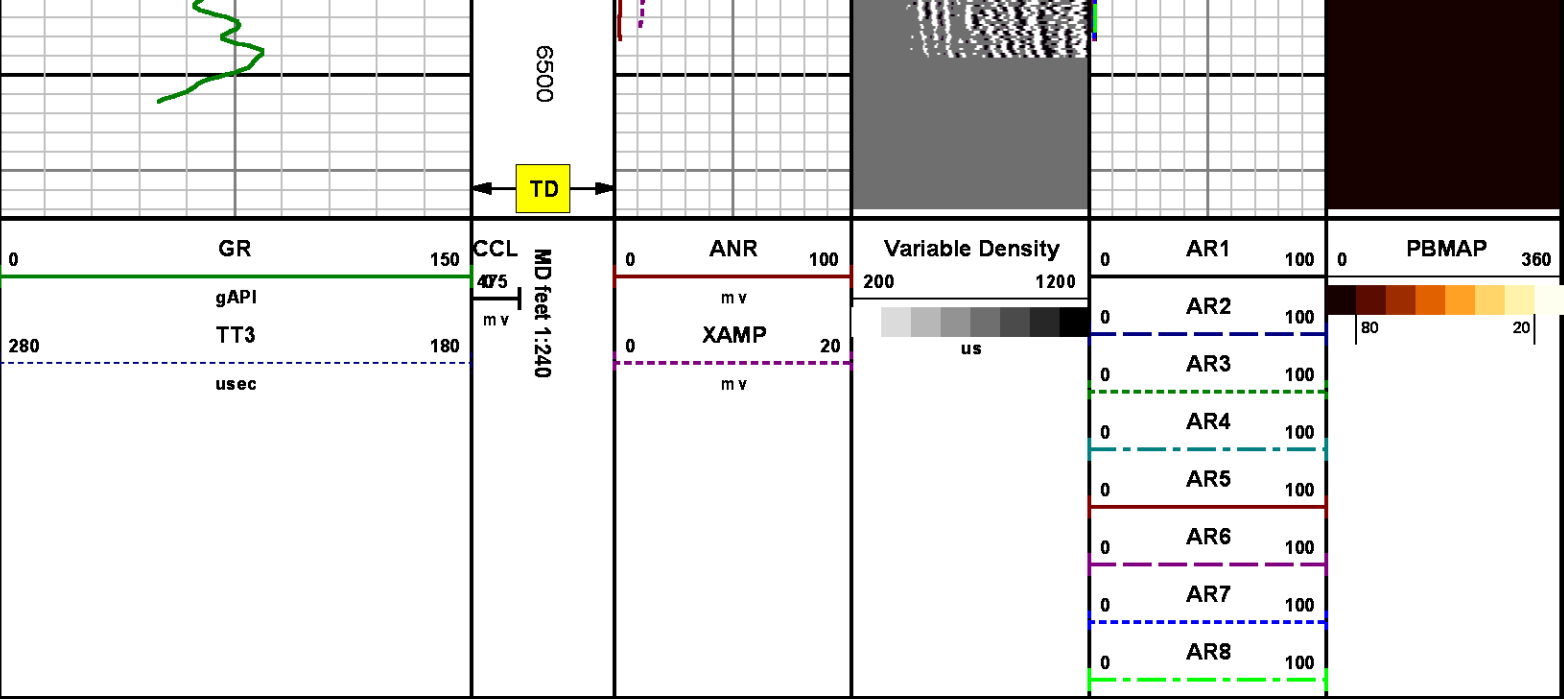












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	6191.140	6513.140
RAL	Amp Gate Start Near	195.000	usec	6191.140	6513.140
RAL	Amp Gate Start Radial	195.000	usec	6191.140	6513.140
RAL	Amp Gate Width Far	25.000	usec	6191.140	6513.140
RAL	Amp Gate Width Near	25.000	usec	6191.140	6513.140
RAL	Amp Gate Width Radial	25.000	usec	6191.140	6513.140
RAL	casing od	4.500	inches	6191.140	6513.140
RAL	casing wt	11.600	lbm/ft	6191.140	6513.140
RAL	FB Start Far	291.900	usec	6191.140	6513.140
RAL	FB Start Near	180.000	usec	6191.140	6513.140
RAL	FB Start Radial	180.000	usec	6191.140	6513.140
RAL	FB Thresh Far	10.000	mv	6191.140	6513.140
RAL	FB Thresh Near	4.000	mv	6191.140	6513.140
RAL	FB Thresh Radial	4.000	mv	6191.140	6513.140
RAL	Fluid Travel Time	200.000	usec/ft	6191.140	6514.021

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

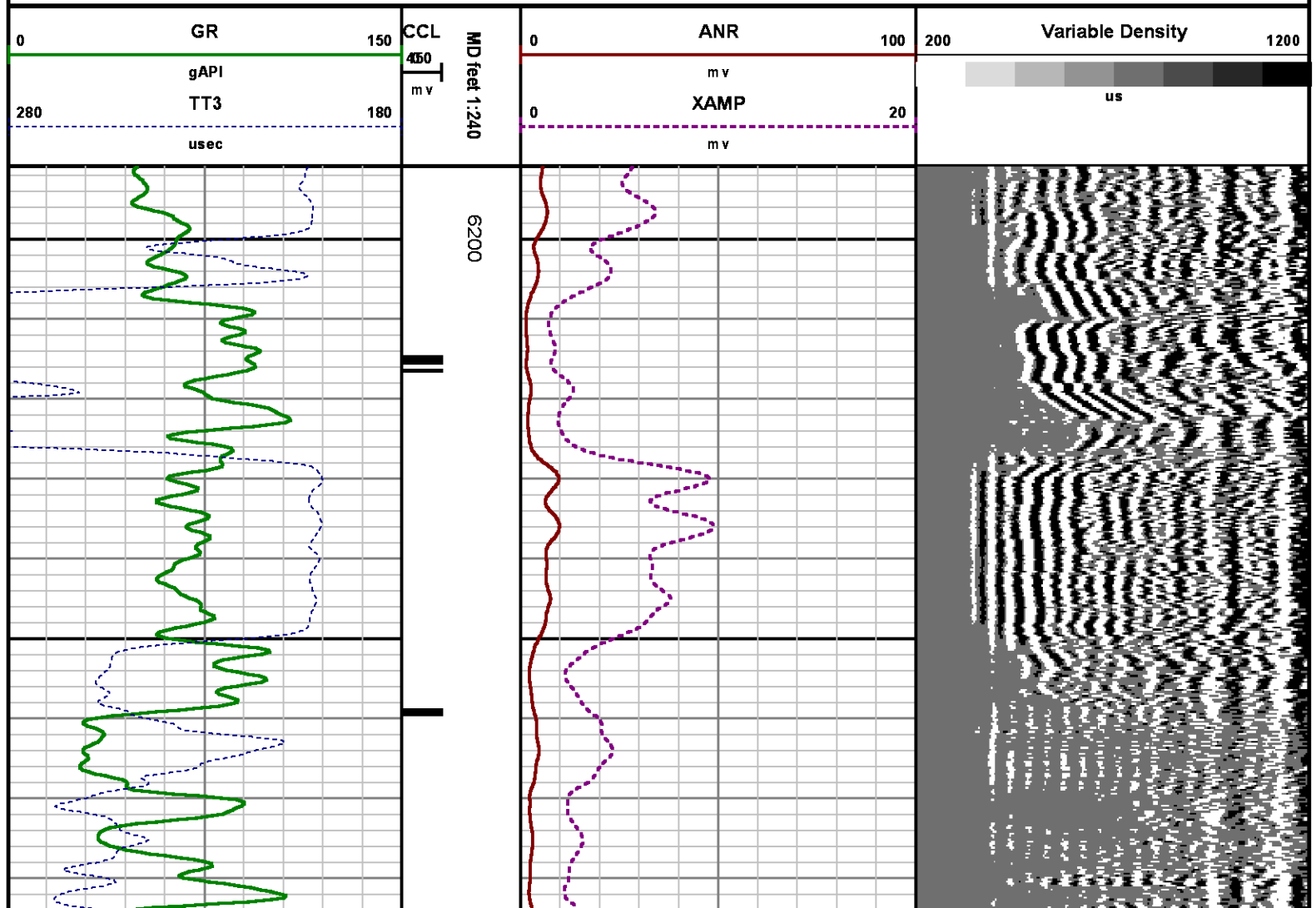
Well : PA 311-7

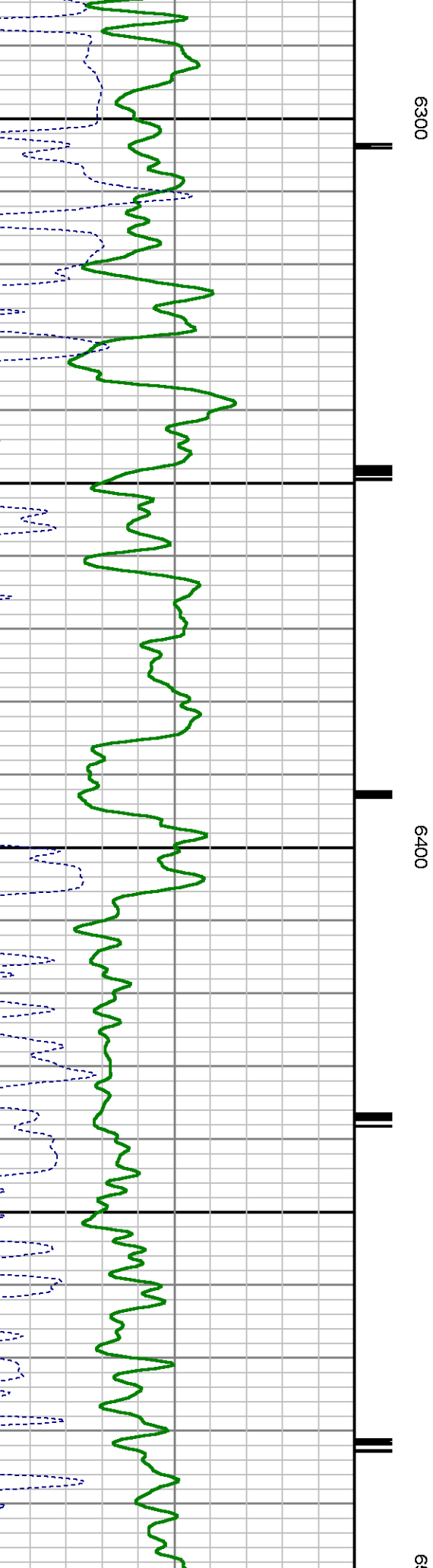
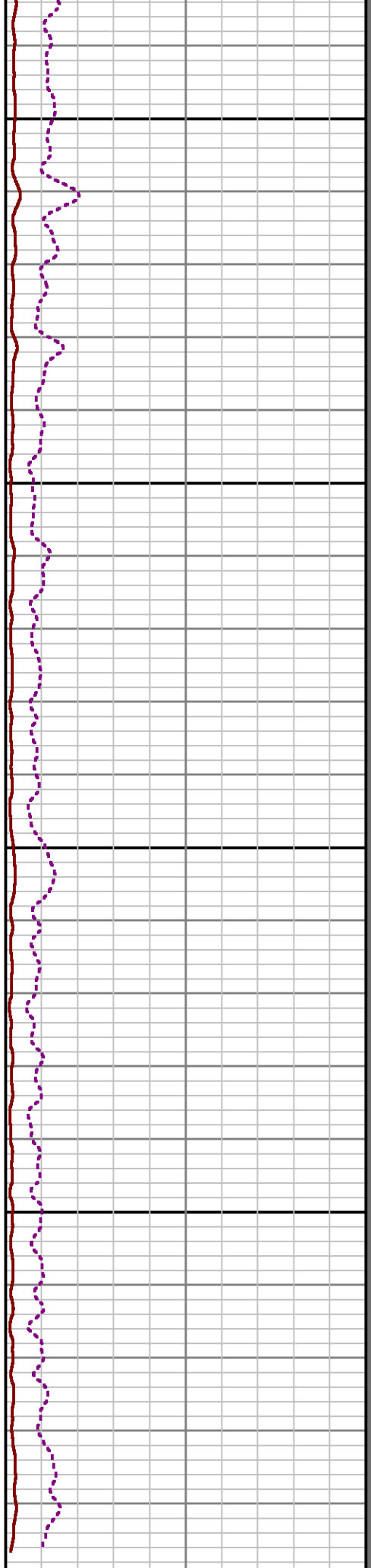
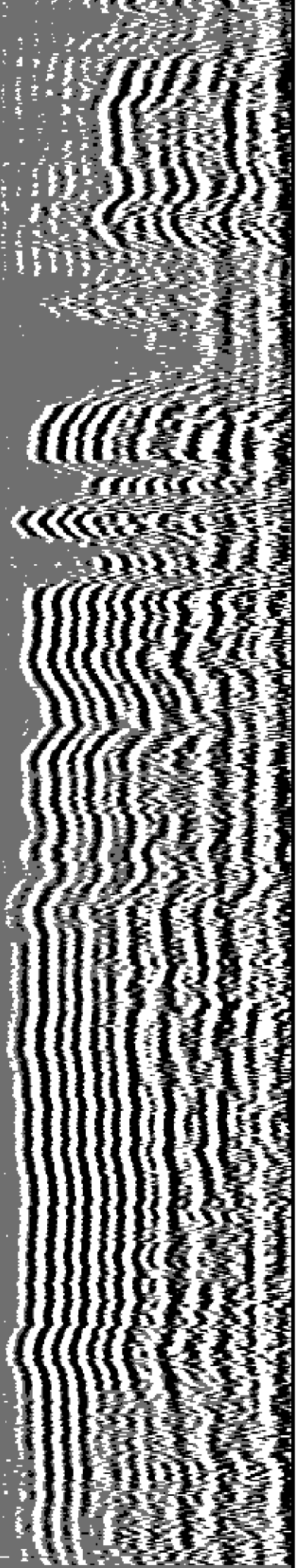
File Name : d:\welldata\wpx\pa 311-7\311 ral\repeat.xtf

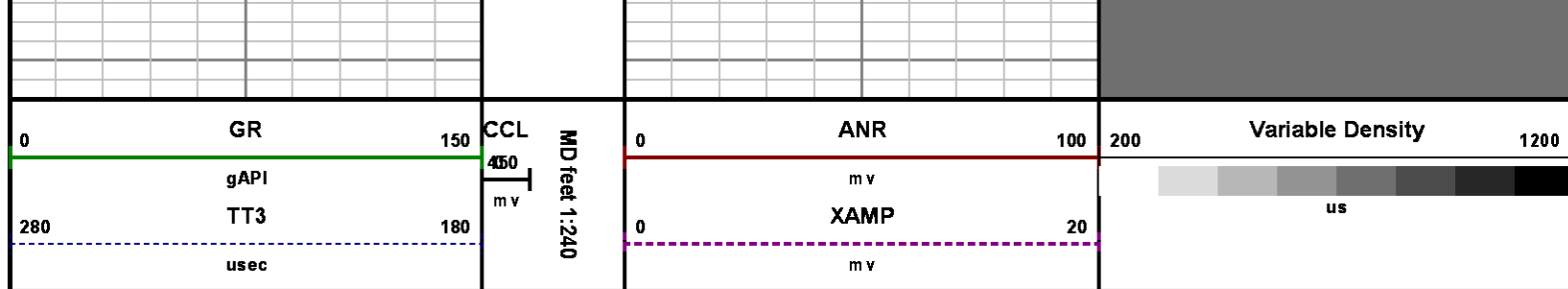
Mode : PlotMgr 5.4.504

Interval : 6190.89 - 6514.14 feet UP

Created : 5/3/2014 10:53:04 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496M3_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat May 03 10:14:50 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: M3

Tool Delay [usec] -52.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	0.226	100.00	0.32
3 Ft. Receiver	217	216	30	166	25	1.183	100.00	0.31
5 Ft. Receiver	327	326	30	238	25	0.074	150.00	0.35
Radial #1	217	216	30	166	25	1.064	100.00	0.31
Radial #2	217	216	30	166	25	0.675	100.00	0.31
Radial #3	217	216	30	166	25	0.856	100.00	0.32
Radial #4	217	216	30	166	25	1.092	100.00	0.32
Radial #5	217	216	30	166	25	1.361	100.00	0.32
Radial #6	217	216	30	166	25	1.302	100.00	0.32
Radial #7	216	216	30	166	25	0.477	100.00	0.31
Radial #8	217	216	30	166	25	0.907	100.00	0.31

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496M3_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat May 03 10:21:48 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: M3

Tool Delay [usec]	-52.00	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	-0.011	0.000	1.00	100.000	
3 Ft. Receiver	195	25	2.509				
5 Ft. Receiver	305	25	3.479				
Radial #1	195	25	1.773				
Radial #2	195	25	1.825				
Radial #3	195	25	2.107				
Radial #4	195	25	2.011				
Radial #5	195	25	2.332				
Radial #6	195	25	2.459				
Radial #7	195	25	2.011				
Radial #8	195	25	2.030				

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 13:38:35 2014	TOOL SERIES:	2459XA	ASSET:	456	SEQ:	A3
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]	
S2K WA612	80.98	351.78	0.661	53.53	232.54	179.01	

TOOL DIAGRAM

OTA SHORT CABLE HEAD



21.81'

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

Total Length: 21.81'
Total Weight: Not Available
Max Diameter: 0' 2.75"

XMIT	15.62'
NEAR RCVR	12.54'
FAR RCVR	10.62'
CCL	8.92'
GR	7.06'
NEU	1.67'
	0.00'

**Baker Atlas***CASE***Company** WPX ENERGY**Well** PA 311-7**Field** PARACHUTE**County** GARFIELD **State** COLORADO**Location**

SHL: 741' FSL & 755' FWL 6 7S 95W

BHL: 148' FNL & 593' FWL (NWNW)7 7S 95W

SEC 7 TWP 7S RGE 95W

Elevations

KB 5179 ft

DF

GL 5153 ft

File No:

CH085276

API No:

05045222260000

6 7S 95W

PA 14-6 PAD

NABORS 574