



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	WPX ENERGY
CH088604	Well	C&C ENERGY GM 11-13
API No:	Field	GRAND VALLEY
05045222710000	County	GARFIELD
	State	COLORADO

13 75 96W	Location	SHL: 297' FSL & 976' FWL (SEC 12)	Other Services
GM 24-12 PAD		BHT: 287' FNL & 727' FWL (NWNW SEC 13)	
H&P 318	SEC 13	TWP 7S	RPM
		RGE 96W	

Permanent Datum	GL	Elevation	5141 ft
Log Measured From	KB	24 ft	Above P. D.
Drill Measured From	KELLY BUSHING		KB 5165 ft
			DF
			GL 5141 ft

Date	24JUL14
Run	ONE
Service Order	US088604J
Depth Driller	5984 ft
Depth Logger	5943 ft
Bottom Logged Interval	5933 ft
Top Logged Interval	24 ft
Time Started	0800
Time Finished	1030
Operator Rig Time	2.5 HRS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	58 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	204 degF
Reference Log	NONE
Reference Log Date	NA
Equipment No.	4271
Recorded By	FLYOD 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.

Bit Size	From	To
13.5 in	24 ft	1010 ft
8.75 in	1010 ft	5984 ft

Size	Weight	Grade	From	To
9.625 in			24 ft	1010 ft
4.5 in	11.6 lbm/ft	I-80	24 ft	5984 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 = 204°F

SJ = 2488'-2509'

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	2459XA	10124121	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	29.950	5946.500
RAL	Amp Gate Start Near	195.000	usec	29.950	5946.500
RAL	Amp Gate Start Radial	195.000	usec	29.950	5946.500
RAL	Amp Gate Width Far	25.000	usec	29.950	5946.500
RAL	Amp Gate Width Near	25.000	usec	29.950	5946.500
RAL	Amp Gate Width Radial	25.000	usec	29.950	5946.500
RAL	casing od	4.500	inches	29.950	5946.500
RAL	casing wt	11.600	lbm/ft	29.950	5946.500
RAL	FB Start Far	291.900	usec	29.950	5946.500
RAL	FB Start Near	180.000	usec	29.950	5946.500
RAL	FB Start Radial	180.000	usec	29.950	5946.500
RAL	FB Thresh Far	10.000	mv	29.950	5946.500
RAL	FB Thresh Near	4.000	mv	29.950	5946.500
RAL	FB Thresh Radial	4.000	mv	29.950	5946.500
RAL	Fluid Travel Time	200.000	usec/ft	29.950	5946.481

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES											
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4	AR5	AR6	AR7	AR8	CHV	FPR2

1426XA -11.360
 2459XA -7.250
 2459XA -5.390
 2459XA 0.000

FPR3 FPR5 TT3 TTR1 TTR2 TTR3
 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
 AFAR SIG TT5
 CCL
 GR
 NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

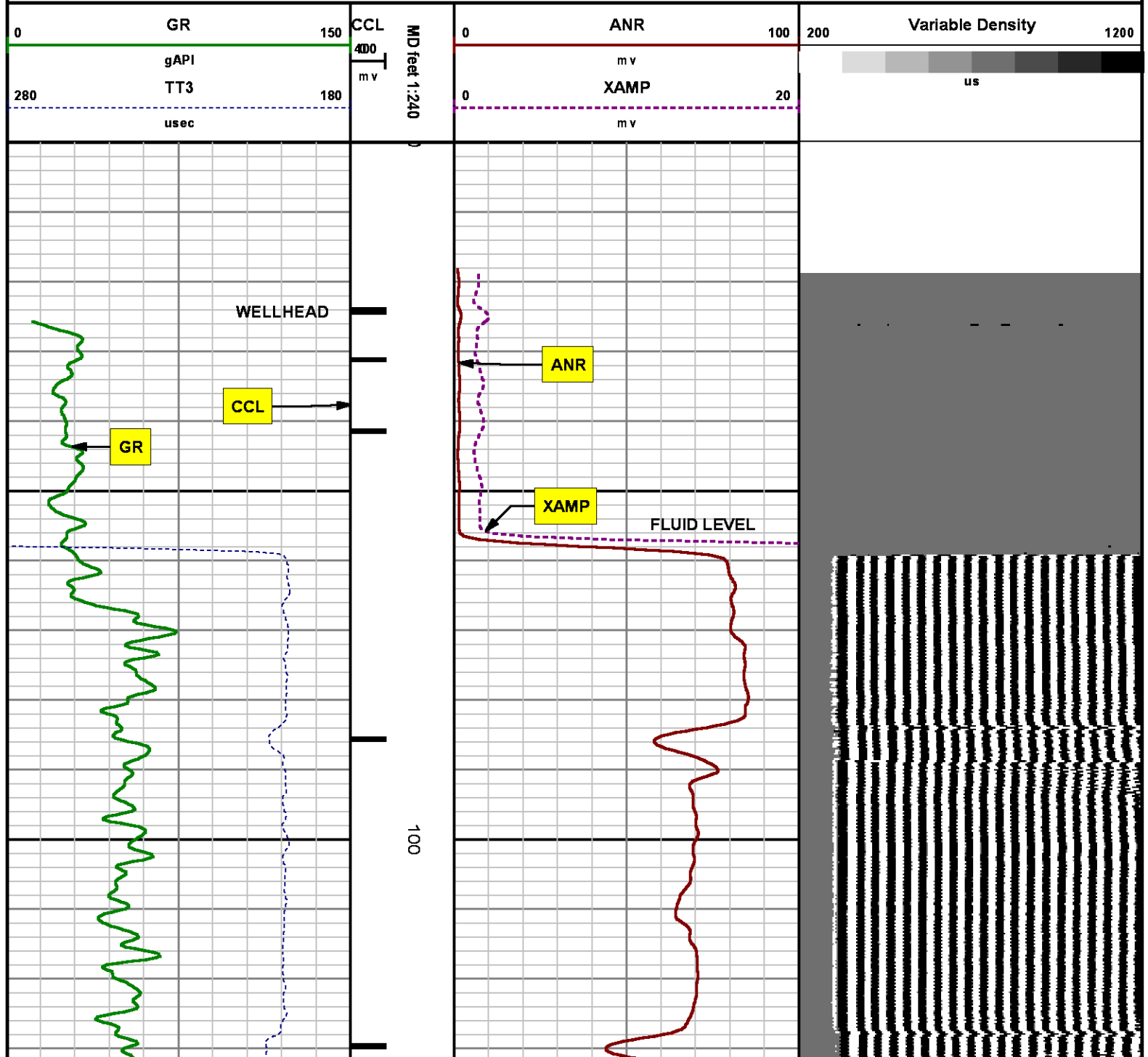
Well : C&C ENERGY GM 11-13

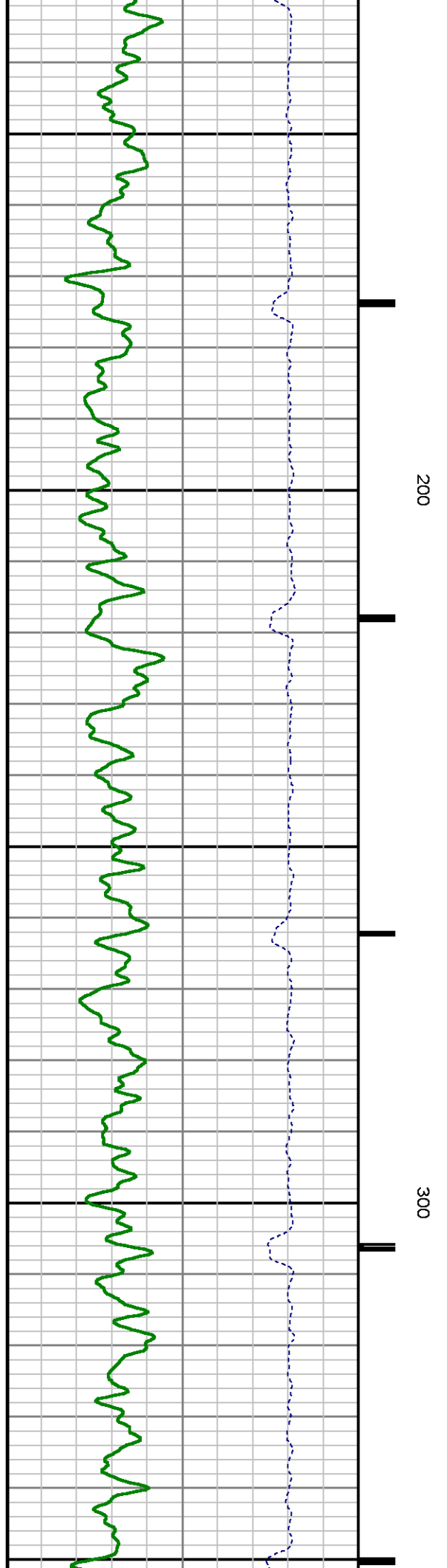
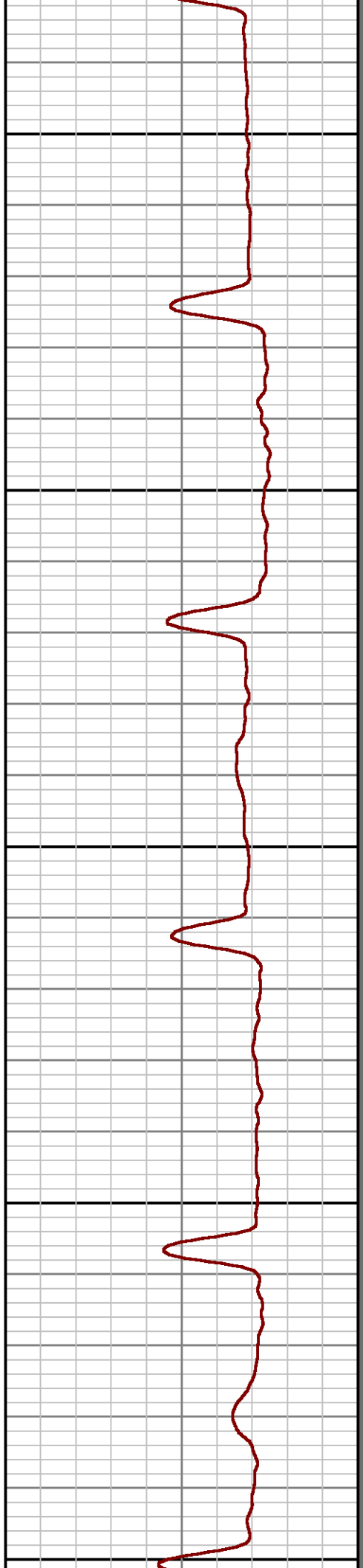
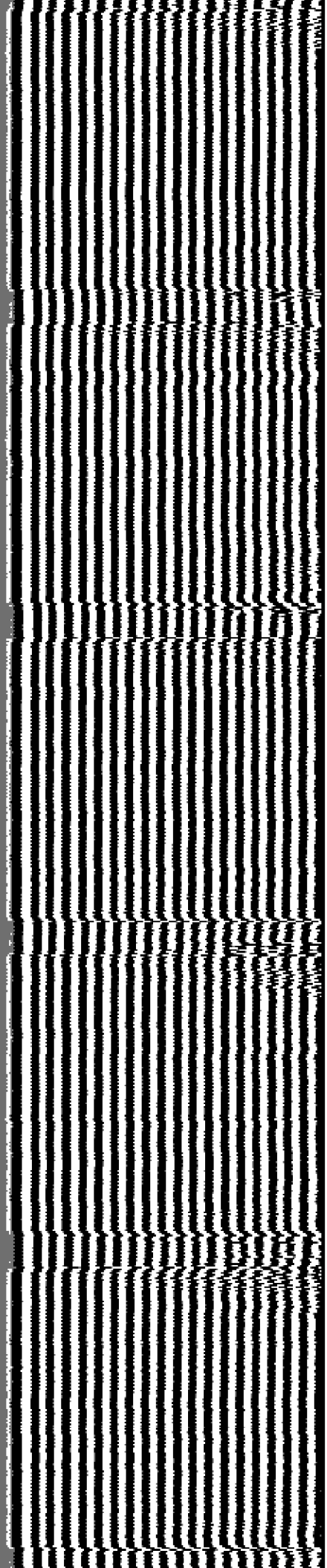
File Name : d:\well\data\wpx\gm 11-13\11cbl\main.xtf

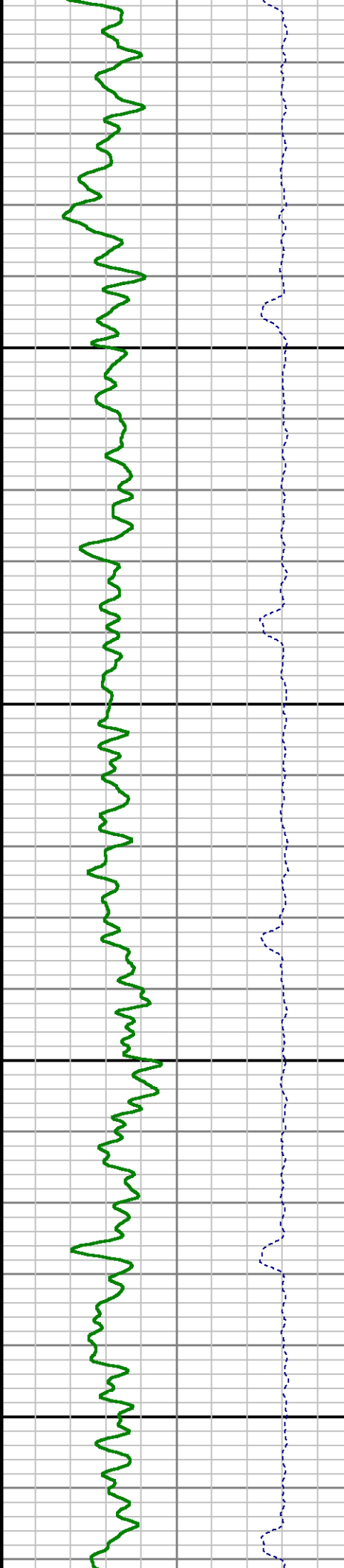
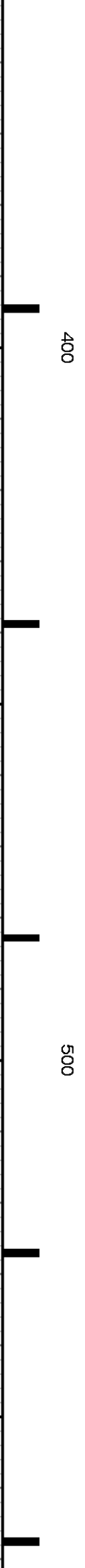
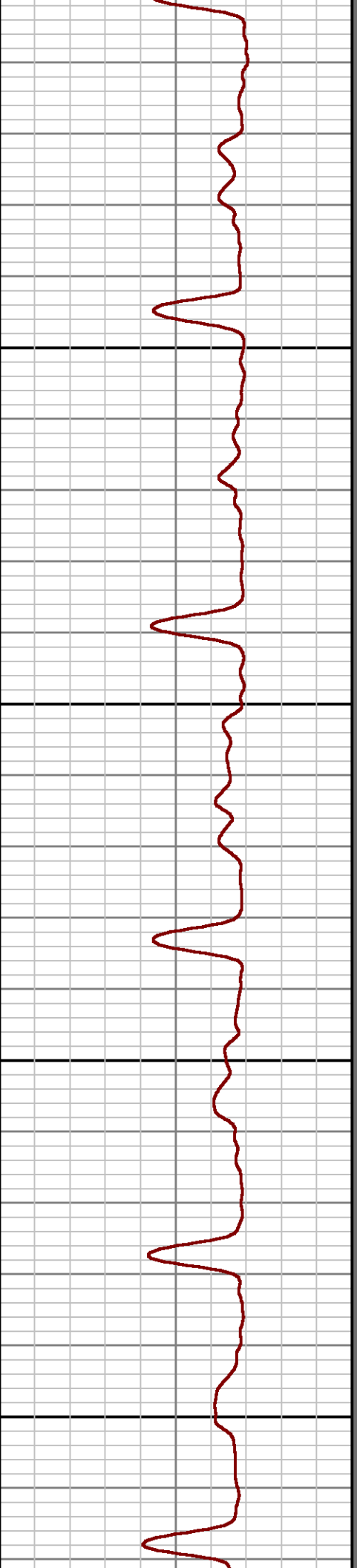
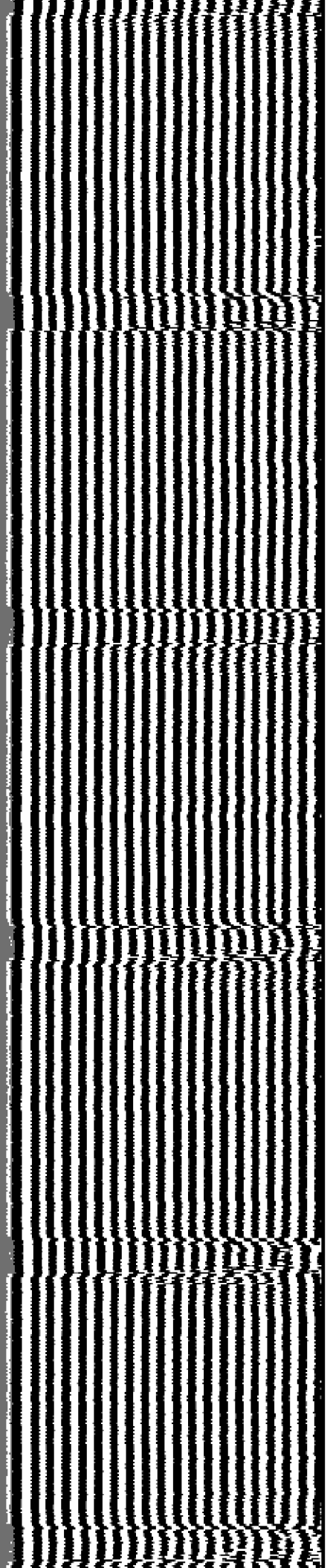
Mode : PlotMgr 5.4.504

Interval : 0.00 - 5946.50 feet UP

Created : 7/24/2014 8:48:02 AM

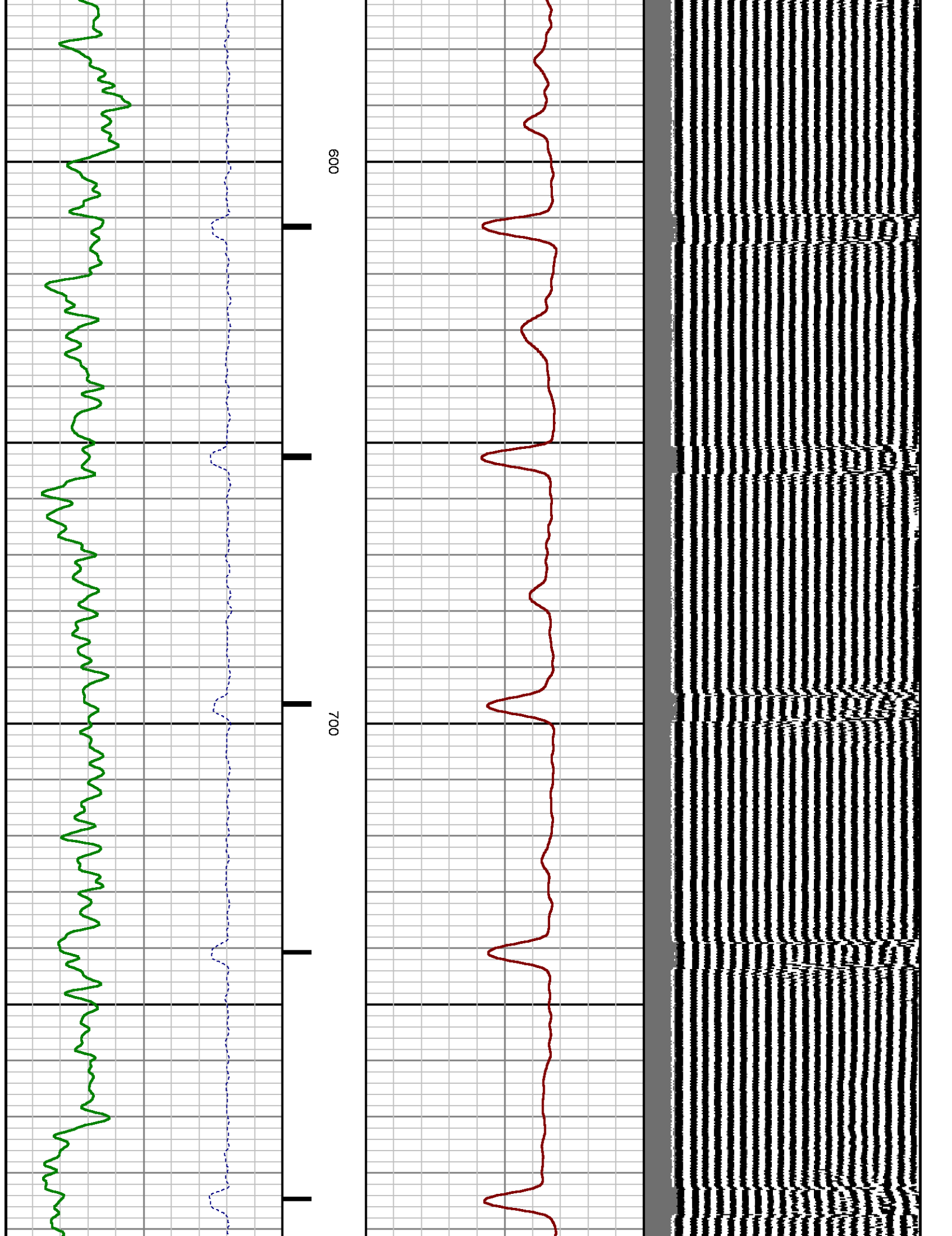


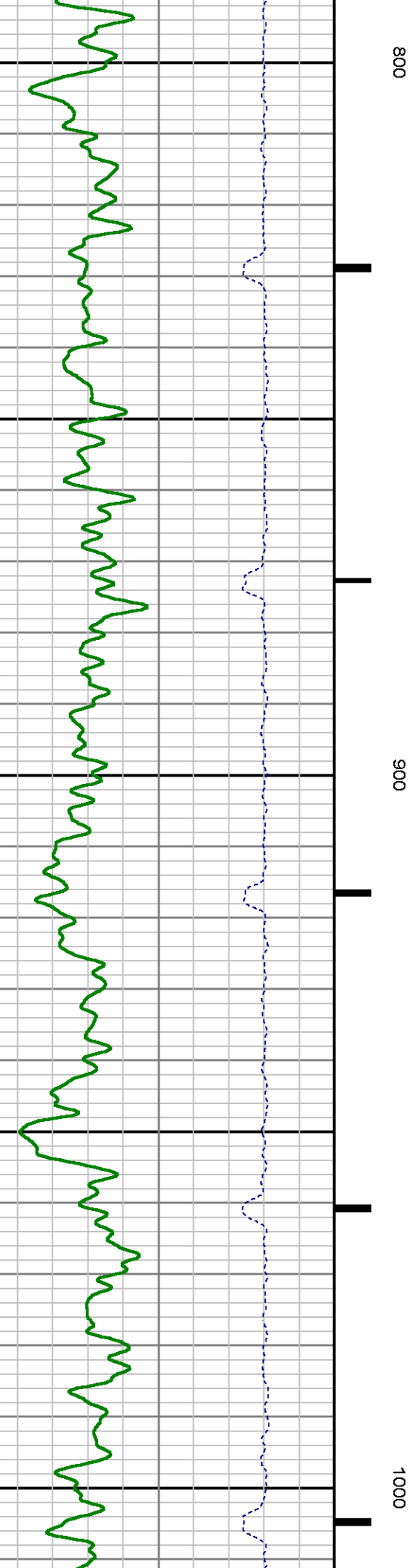
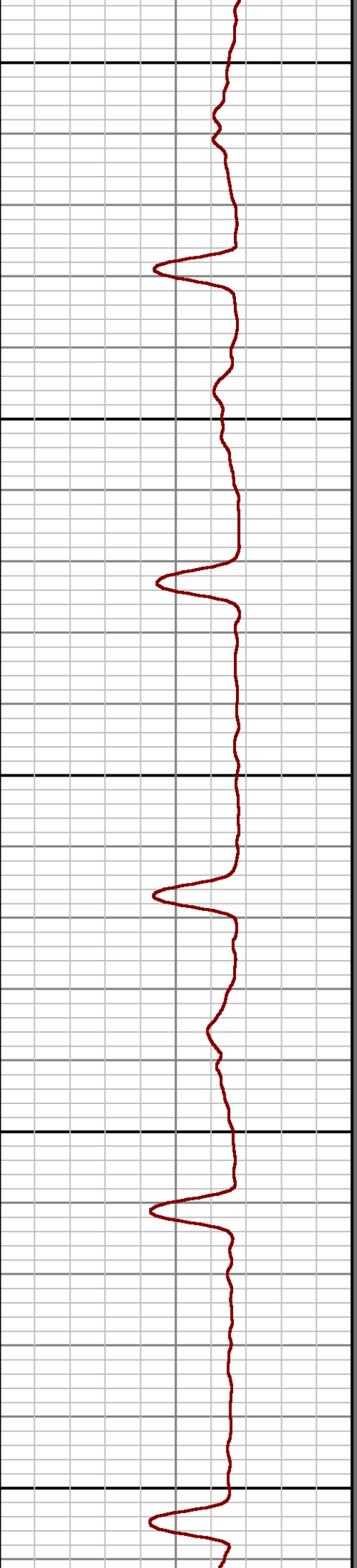
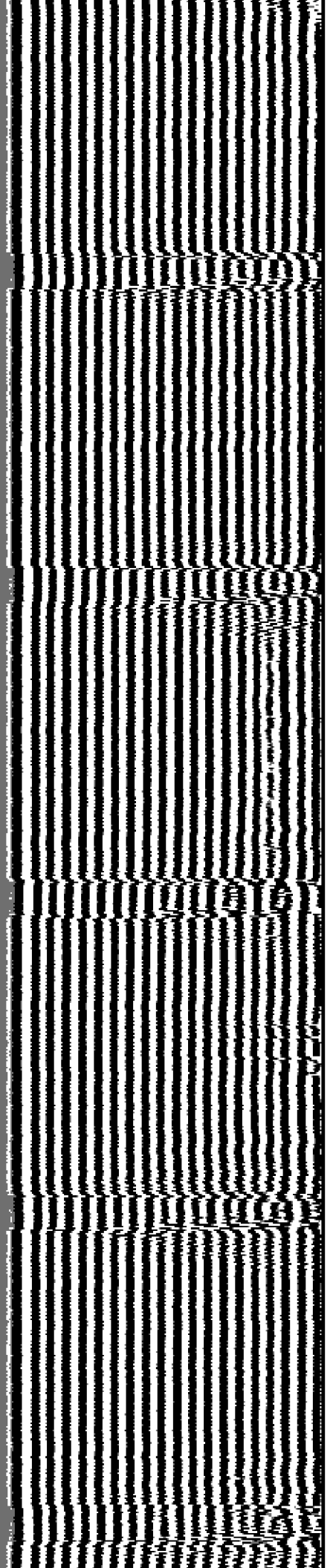


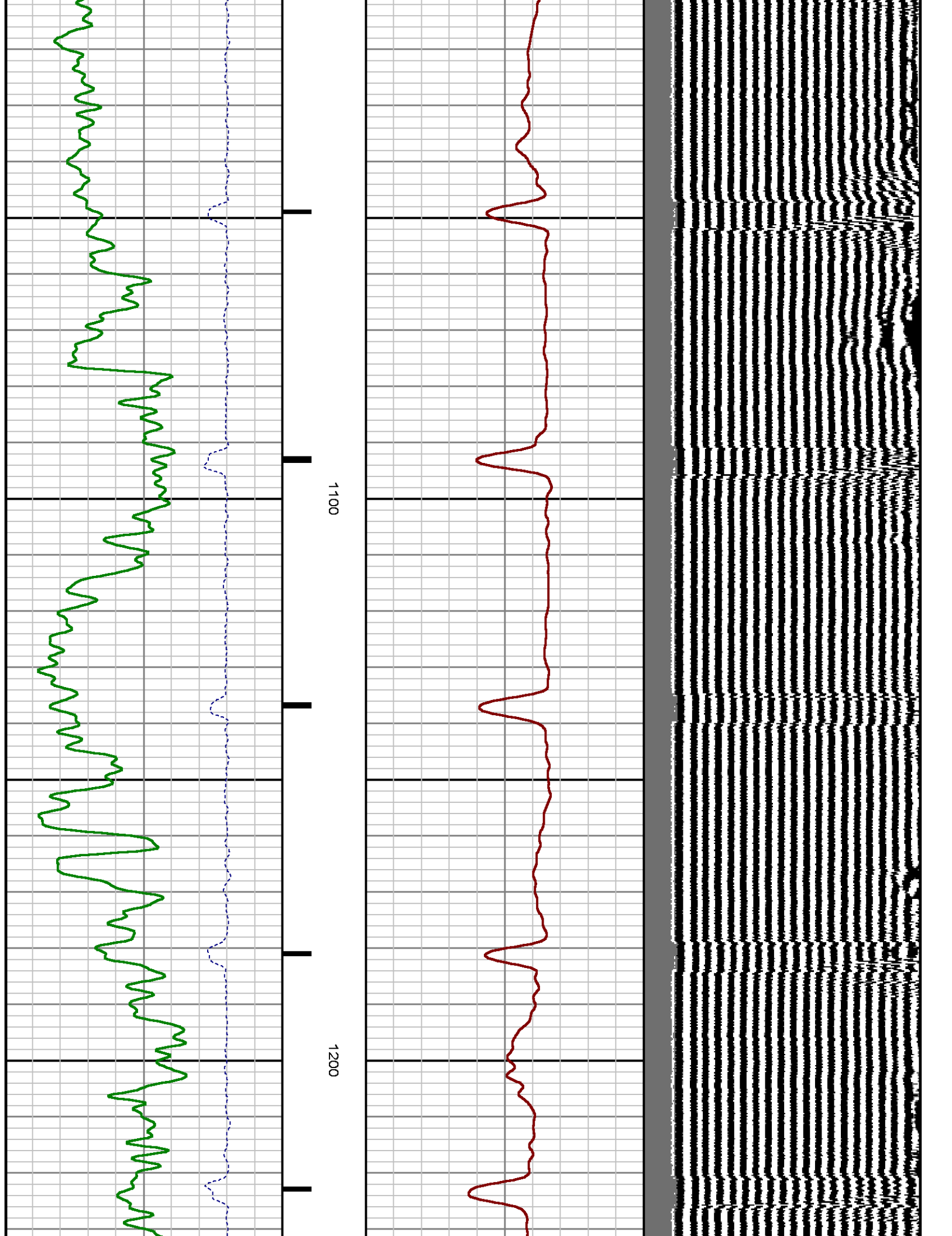


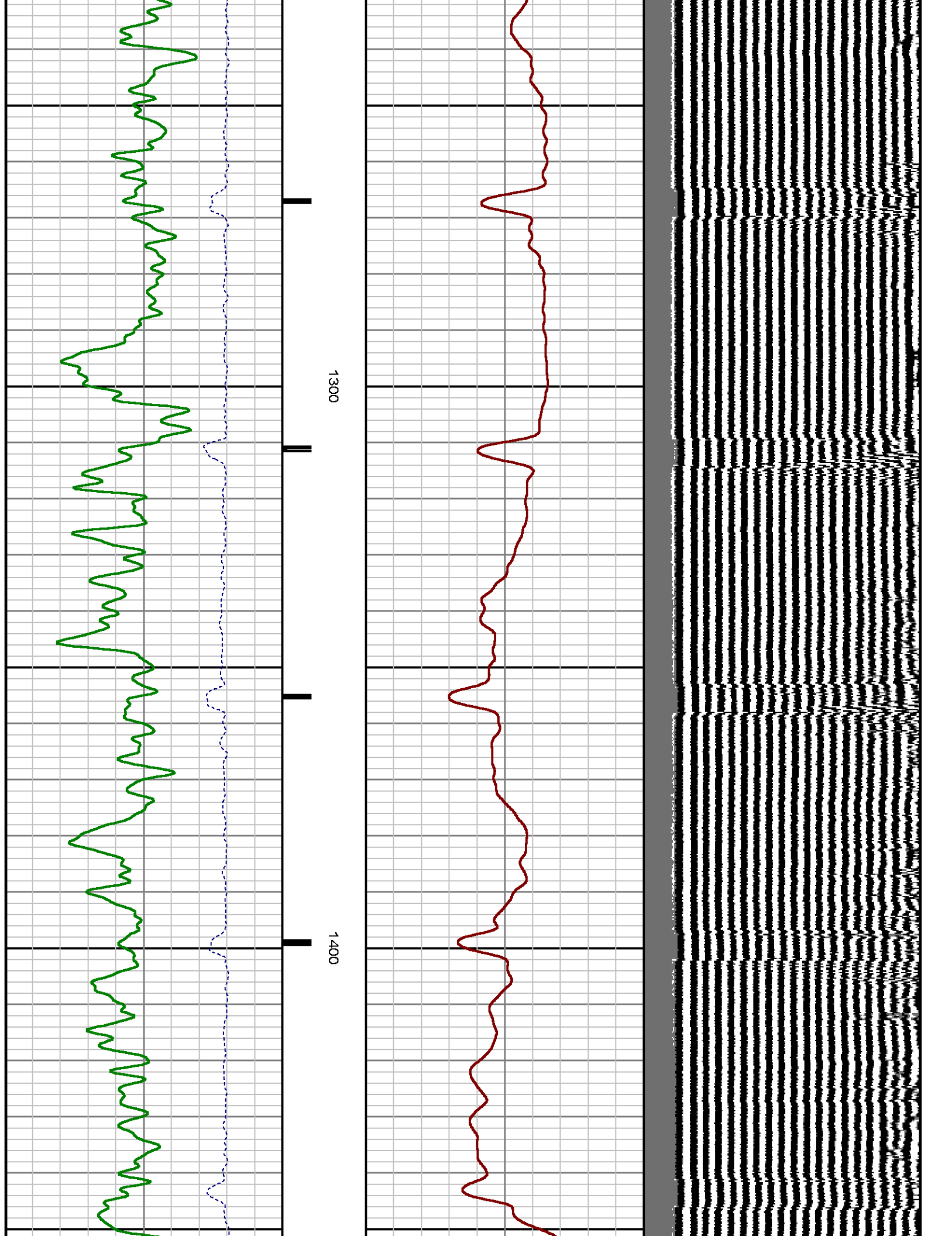
400

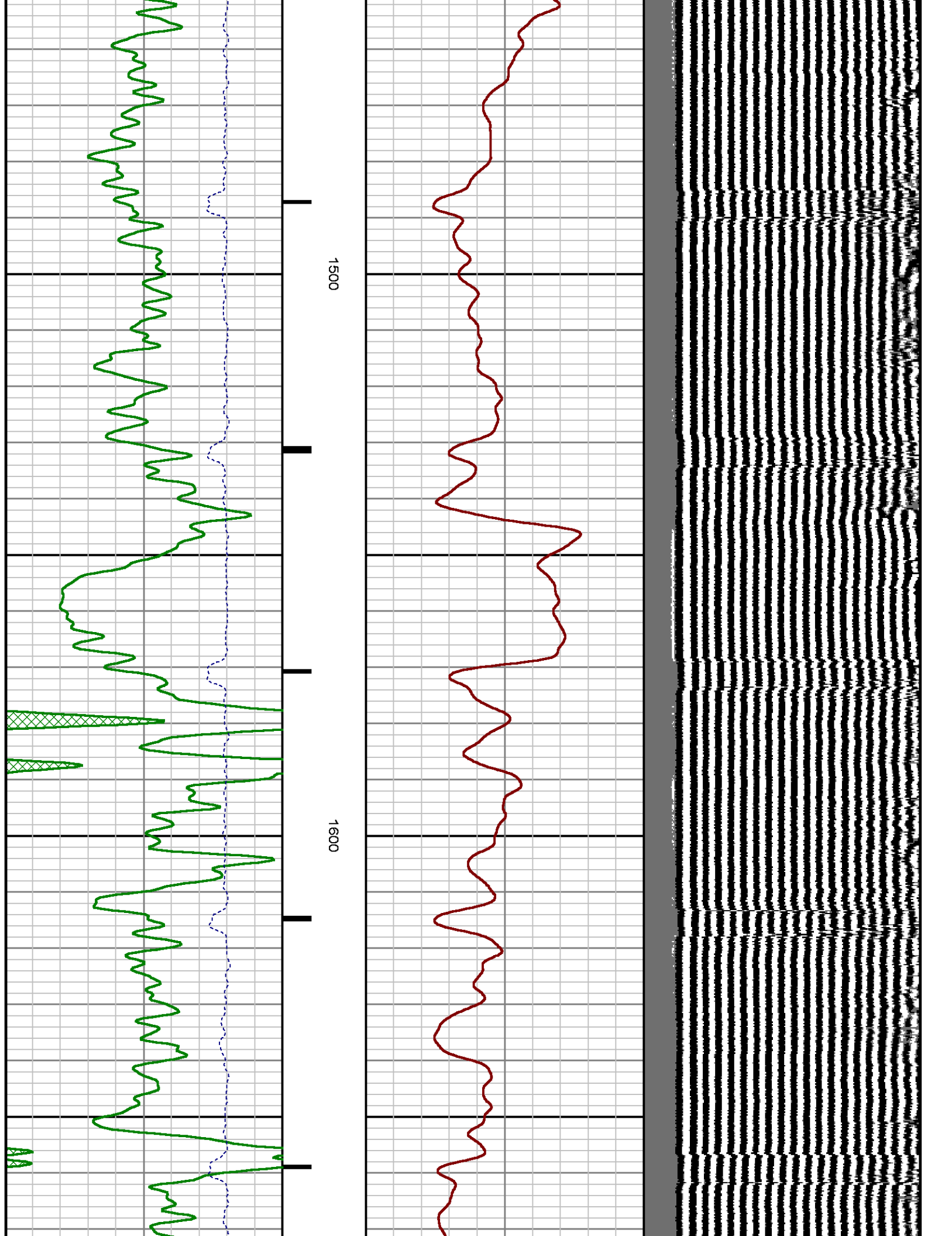
500

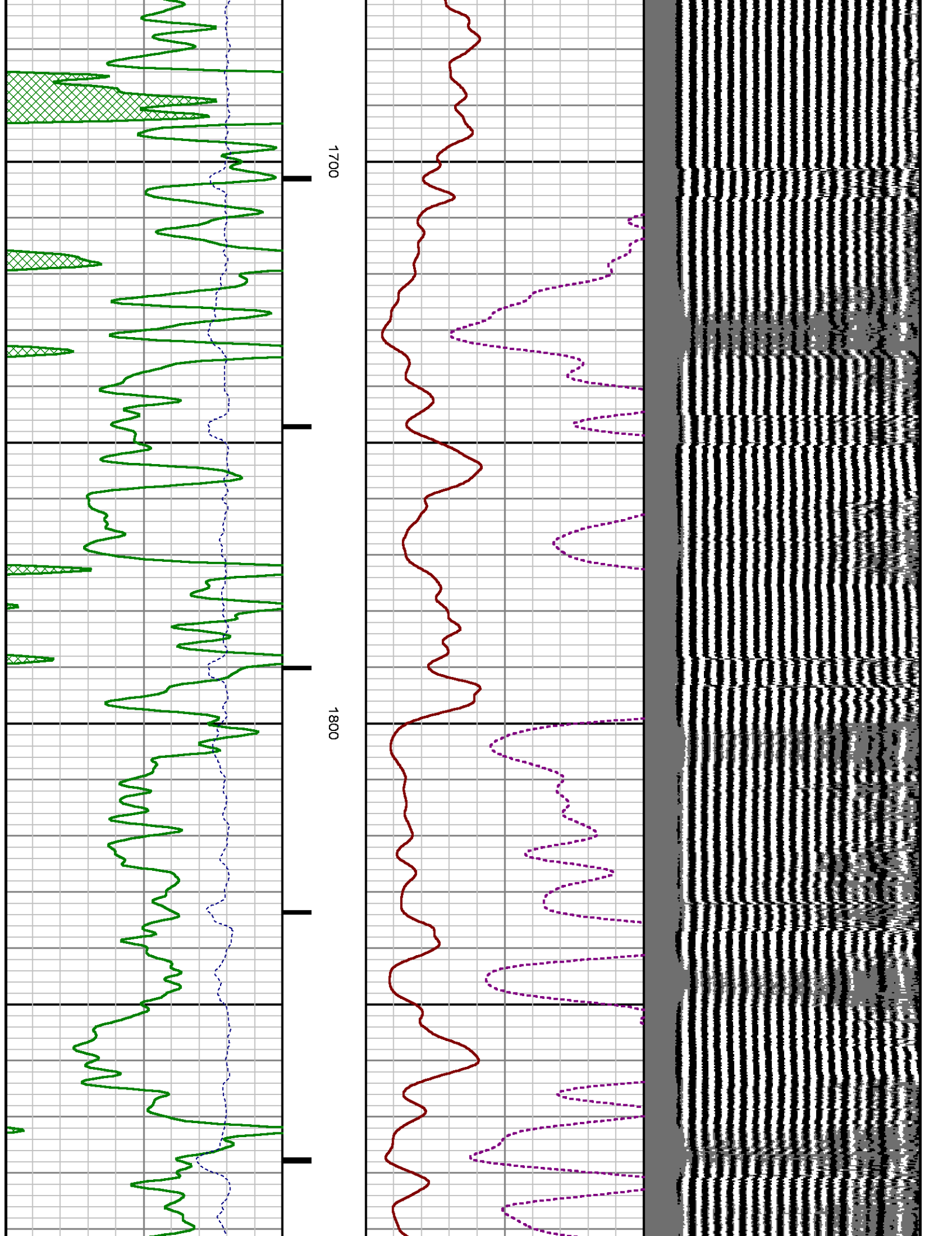


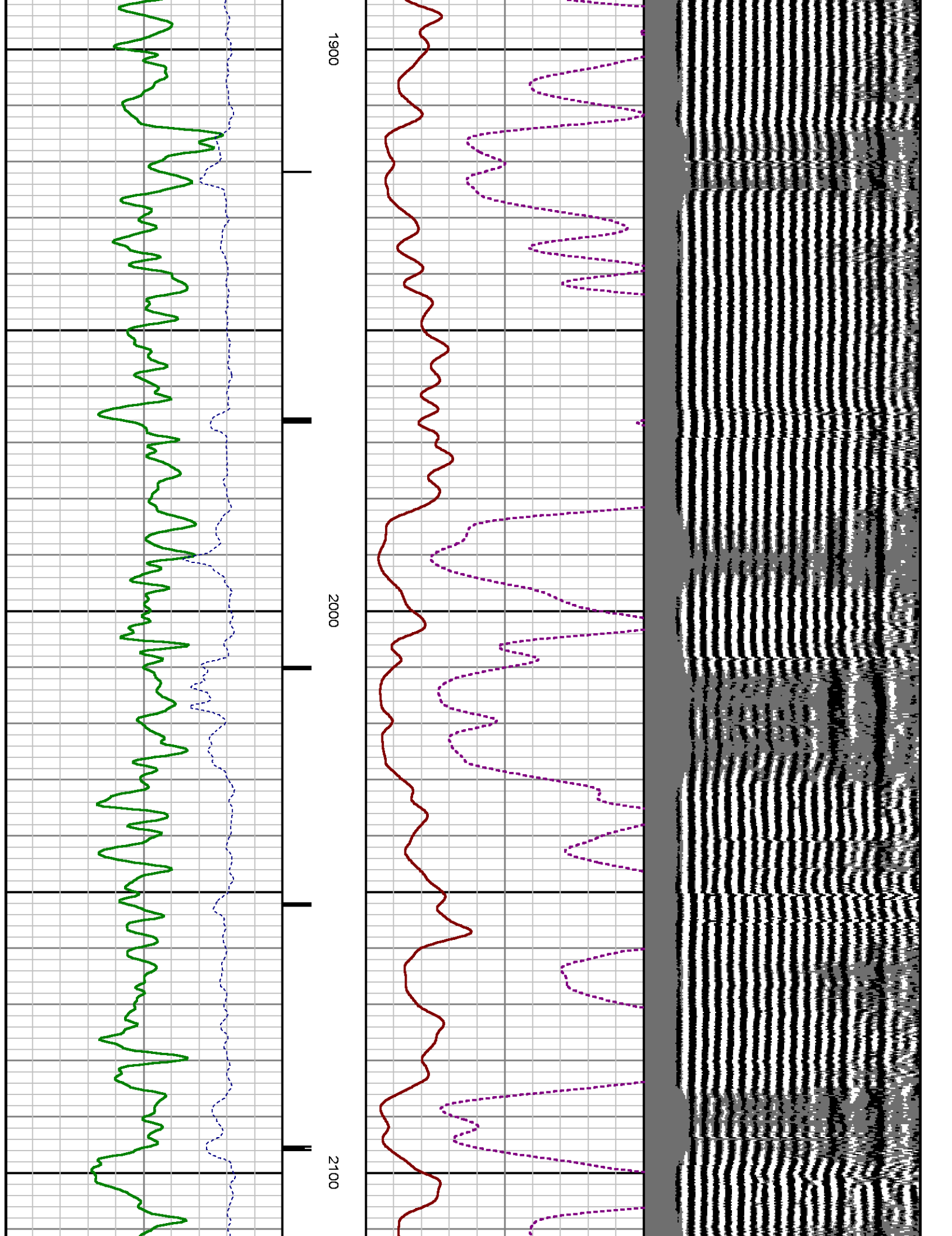


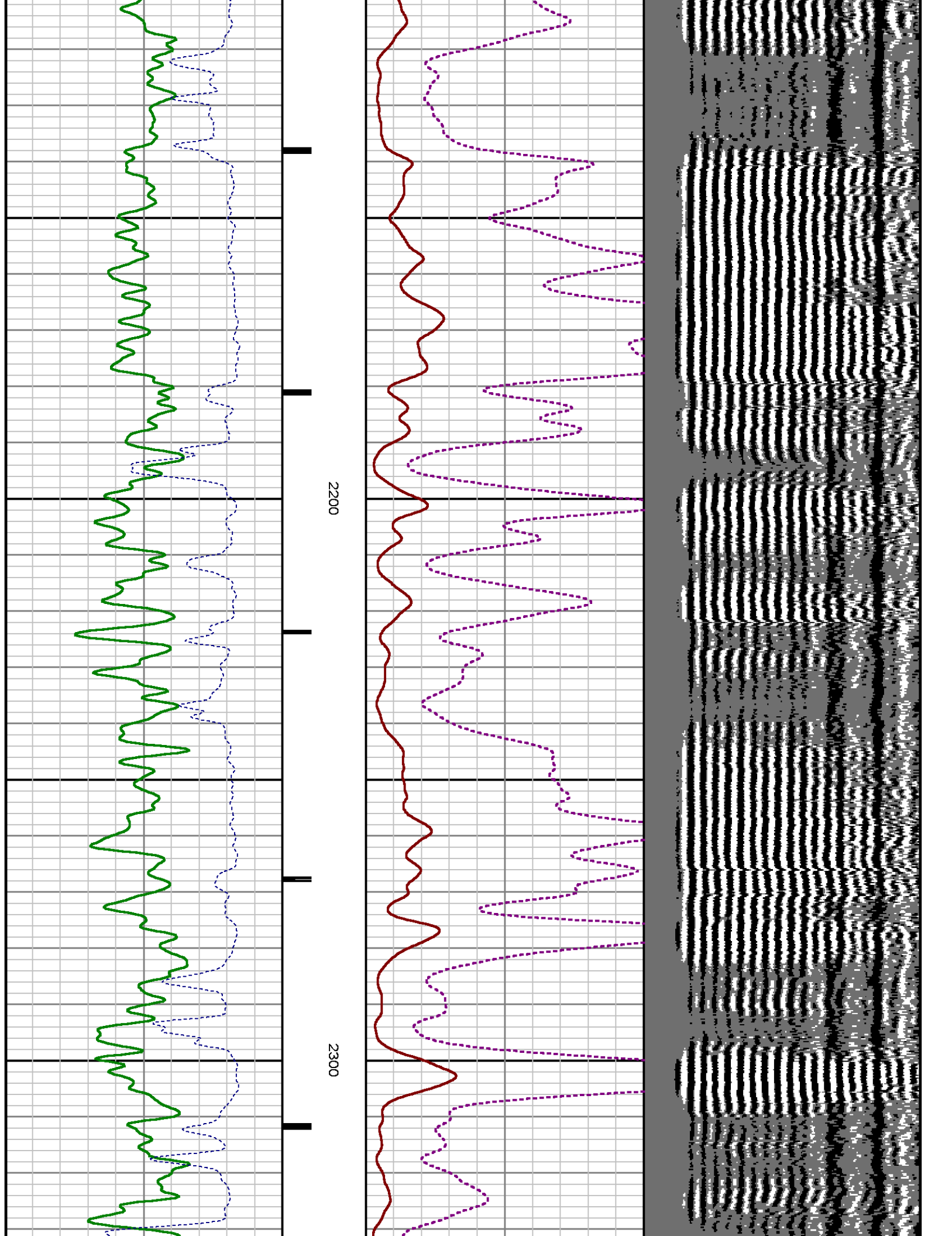


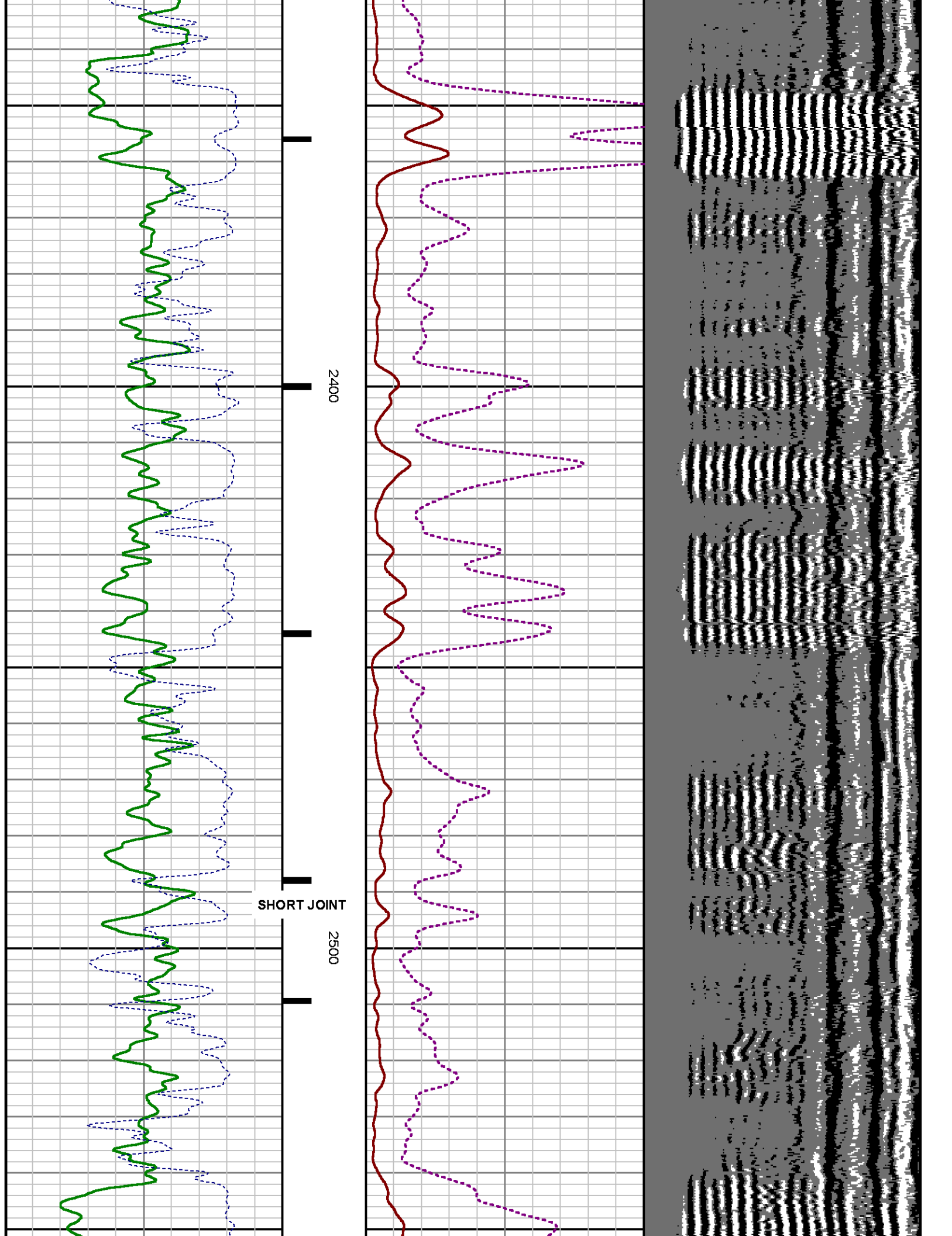


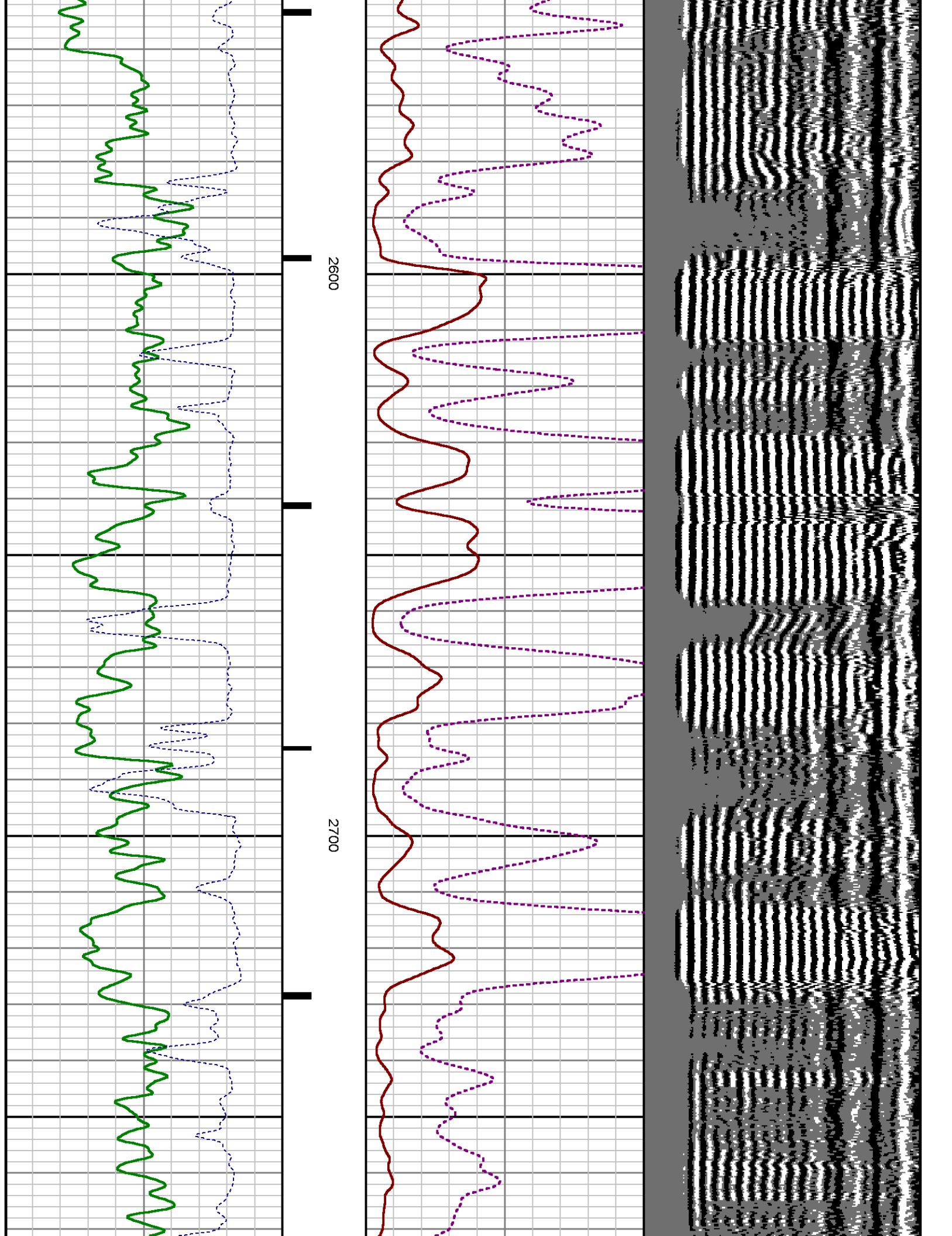


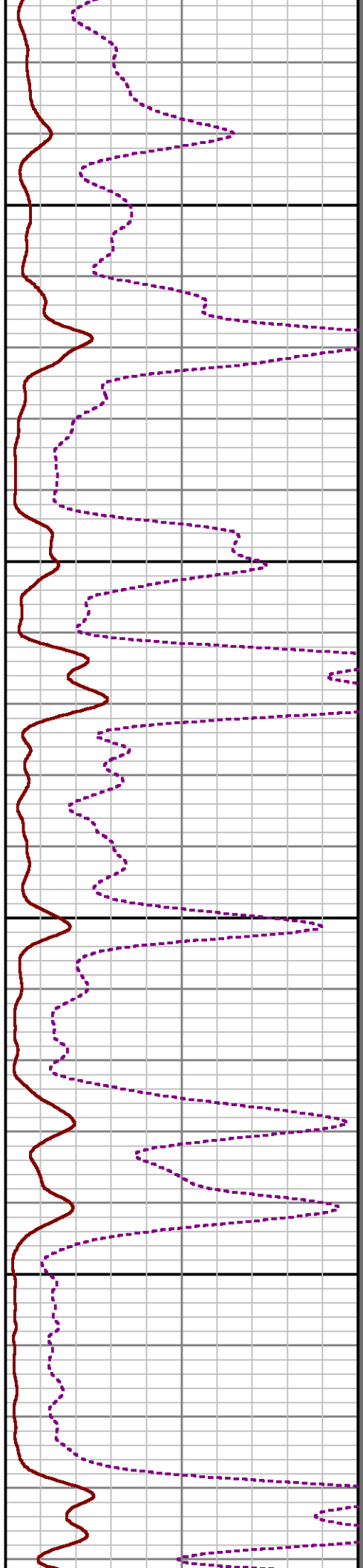
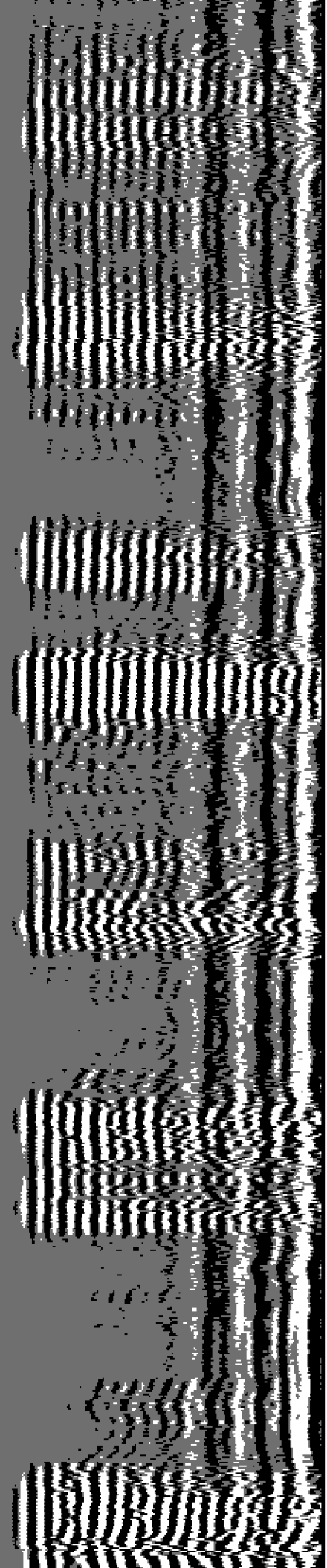






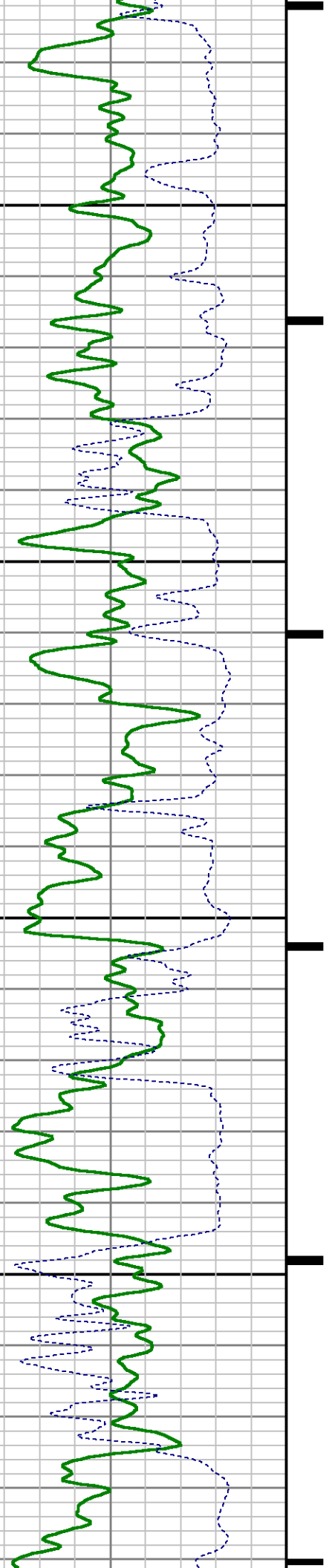


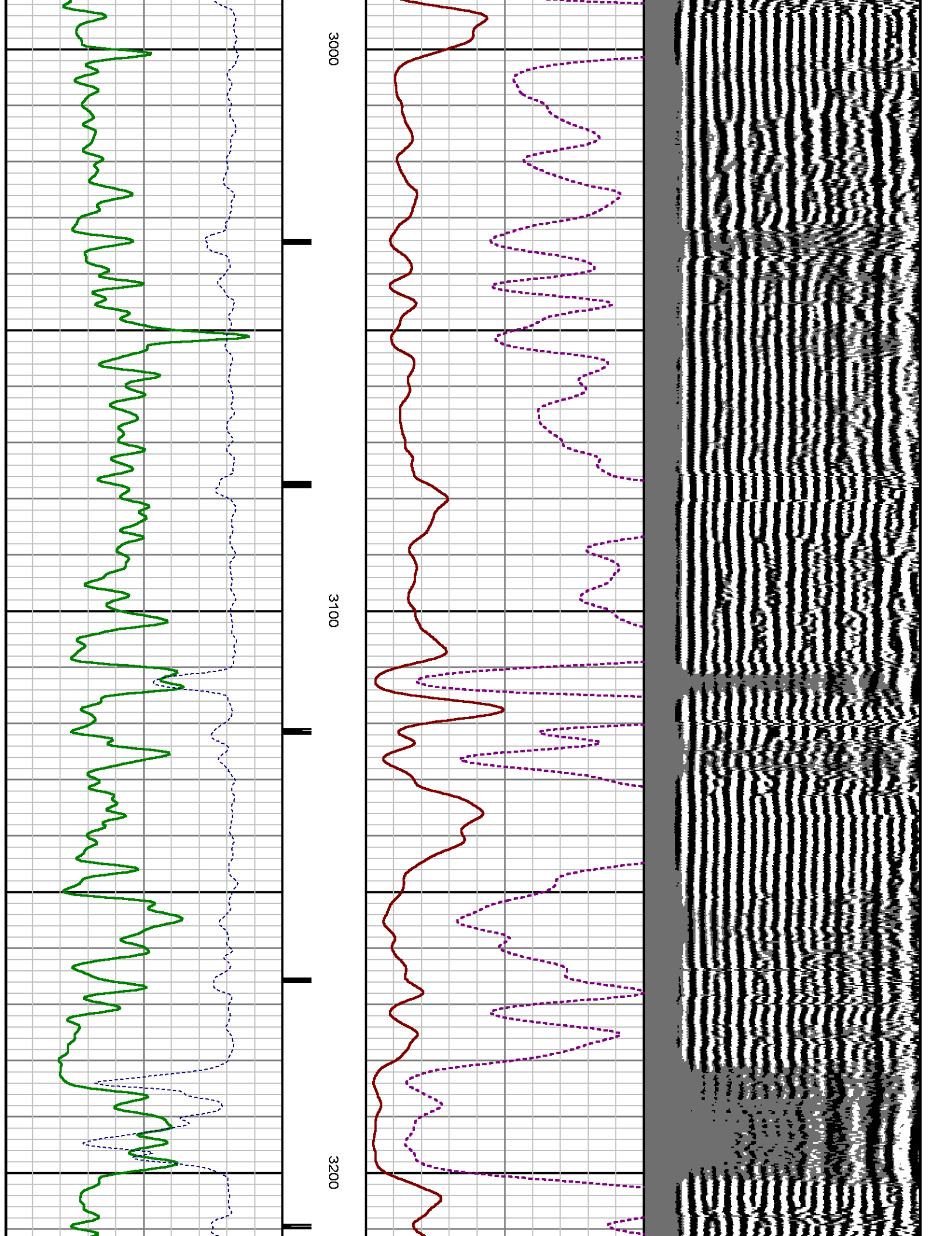


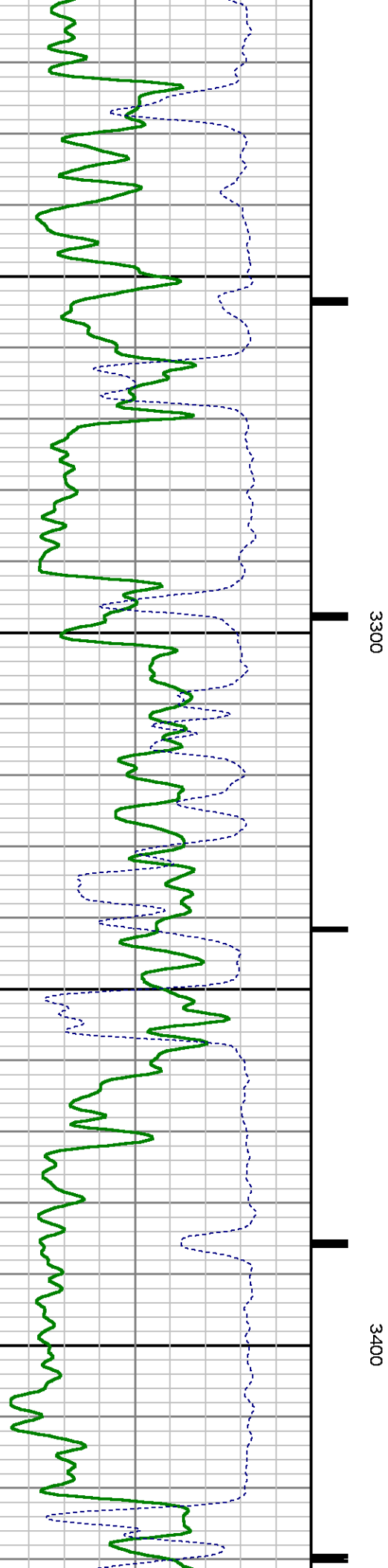
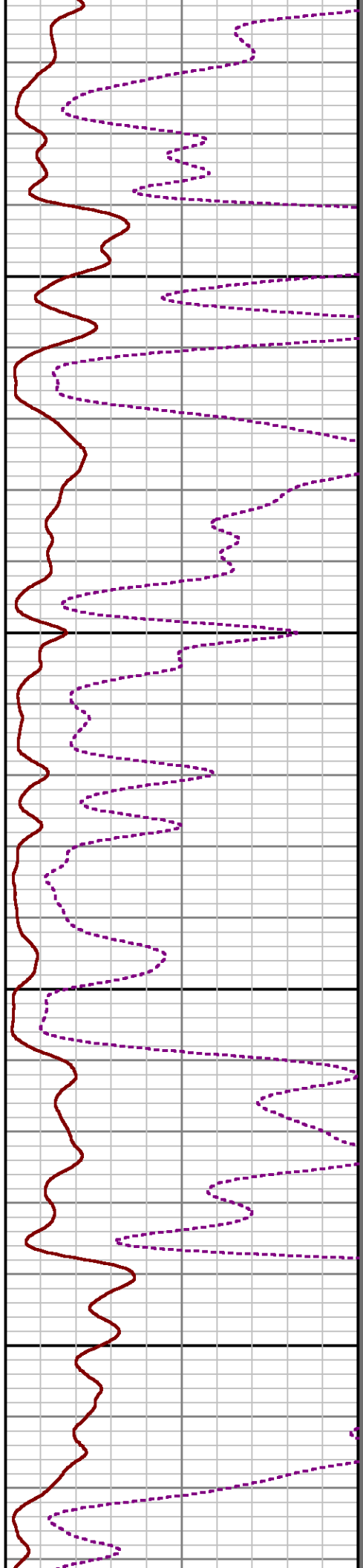
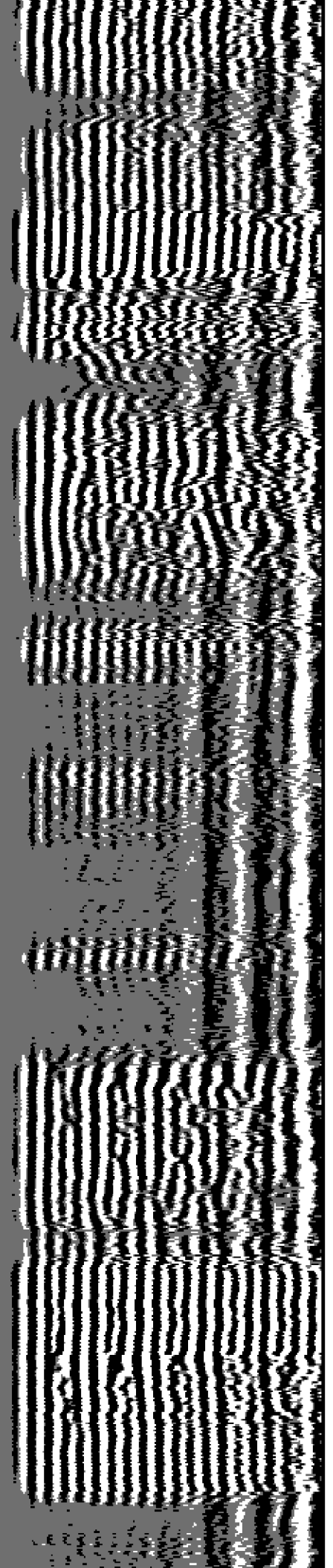


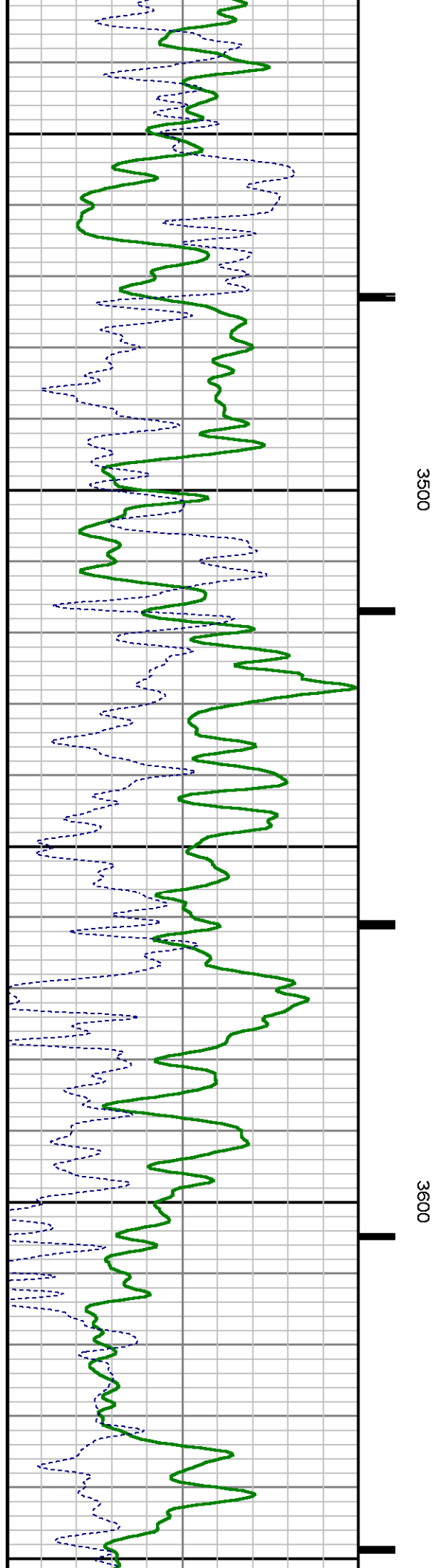
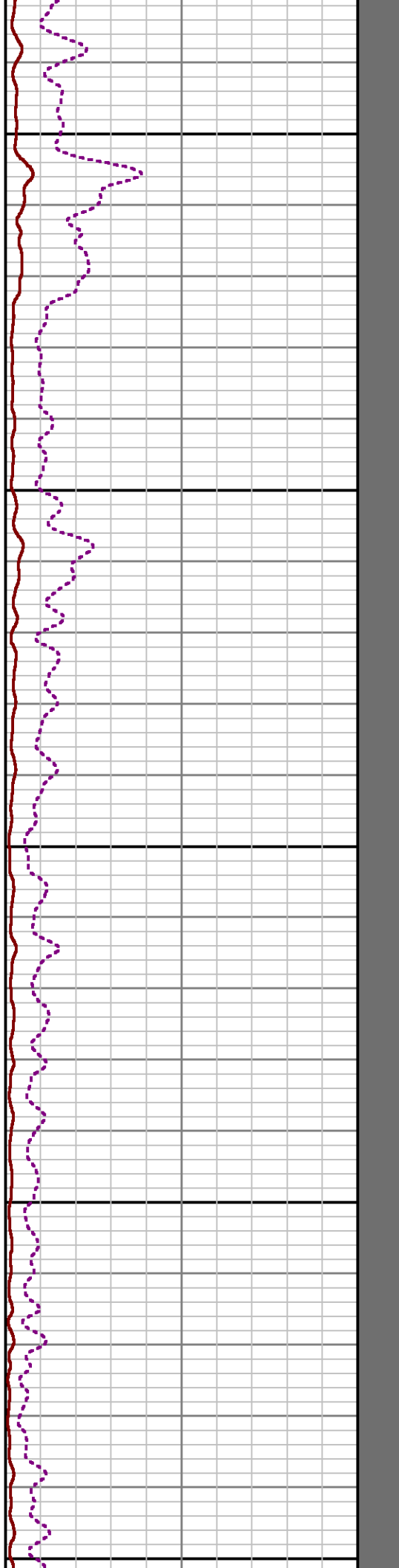
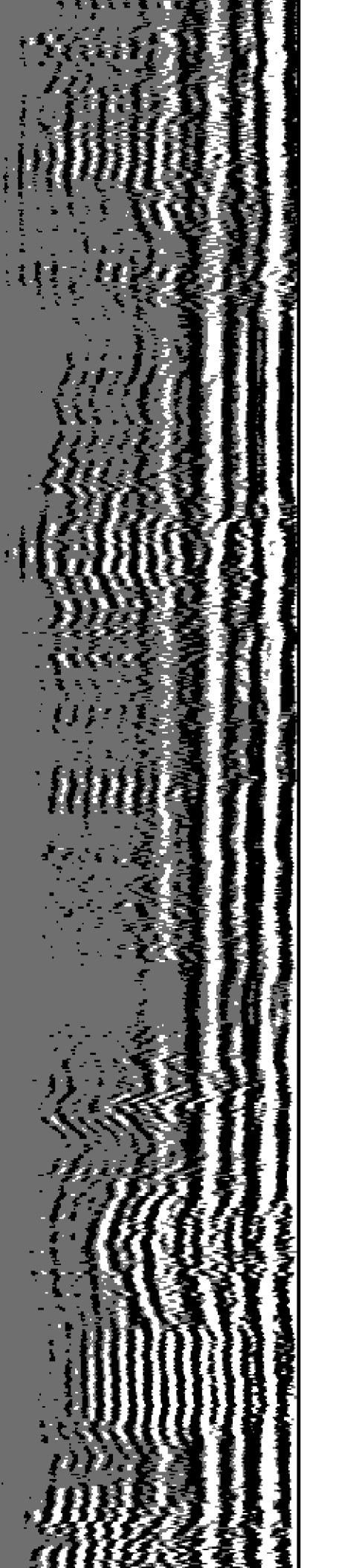
2800

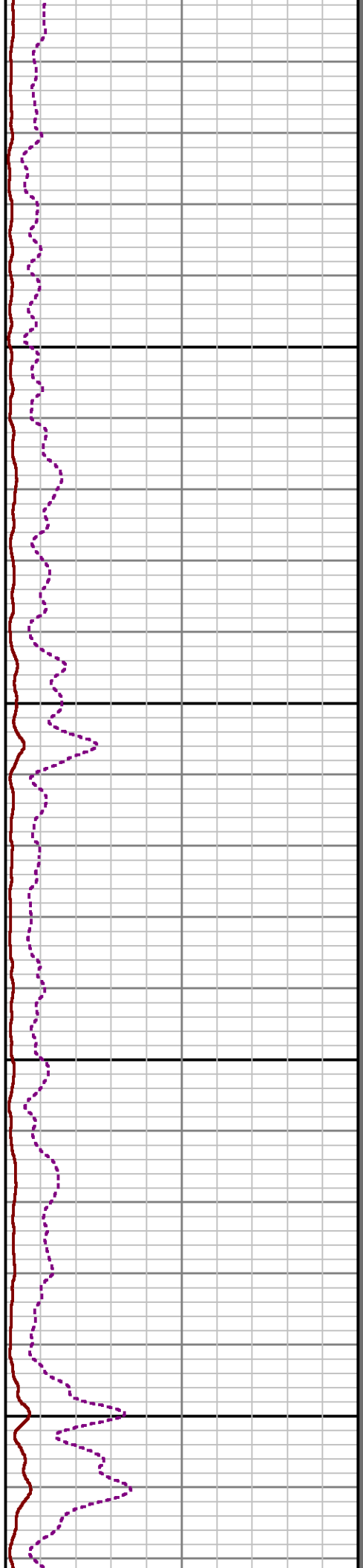
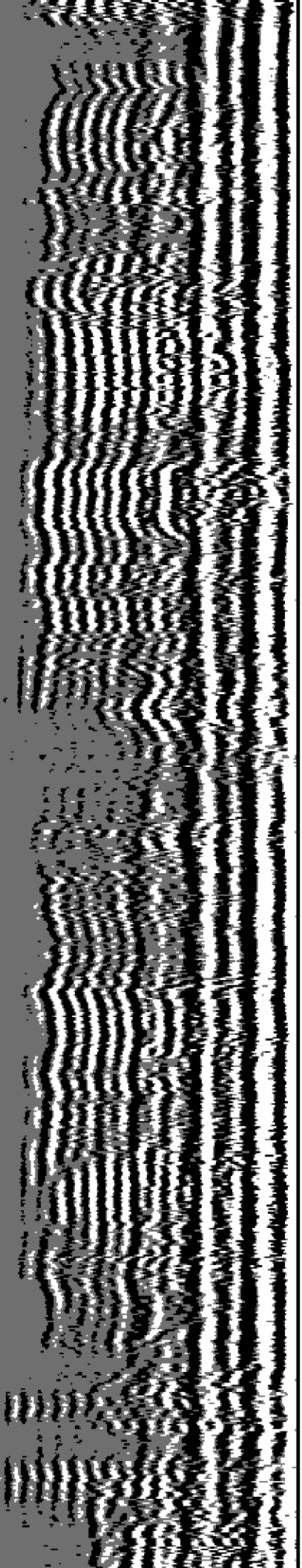
2900





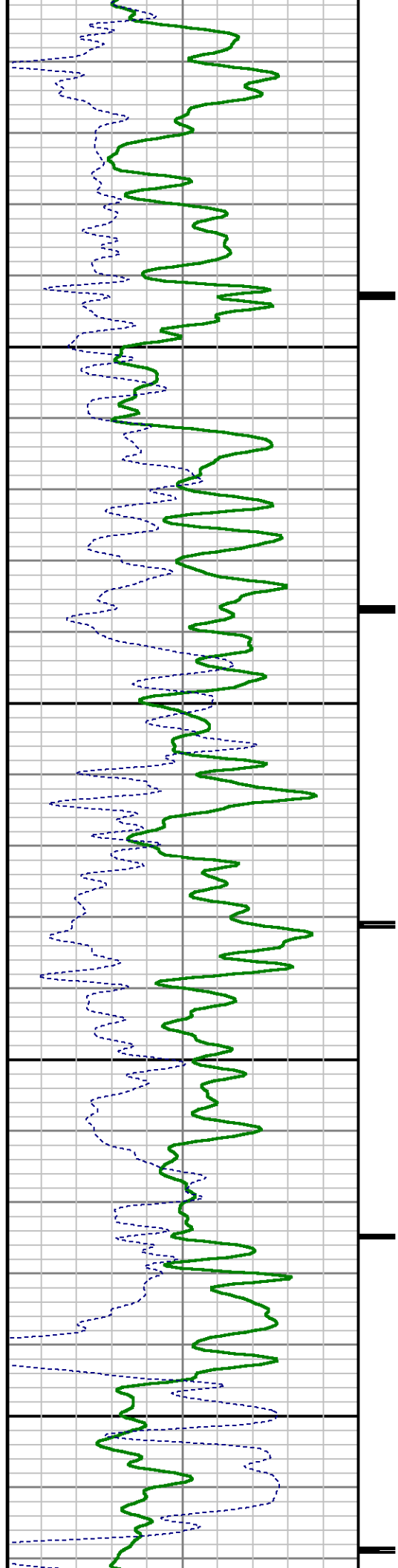


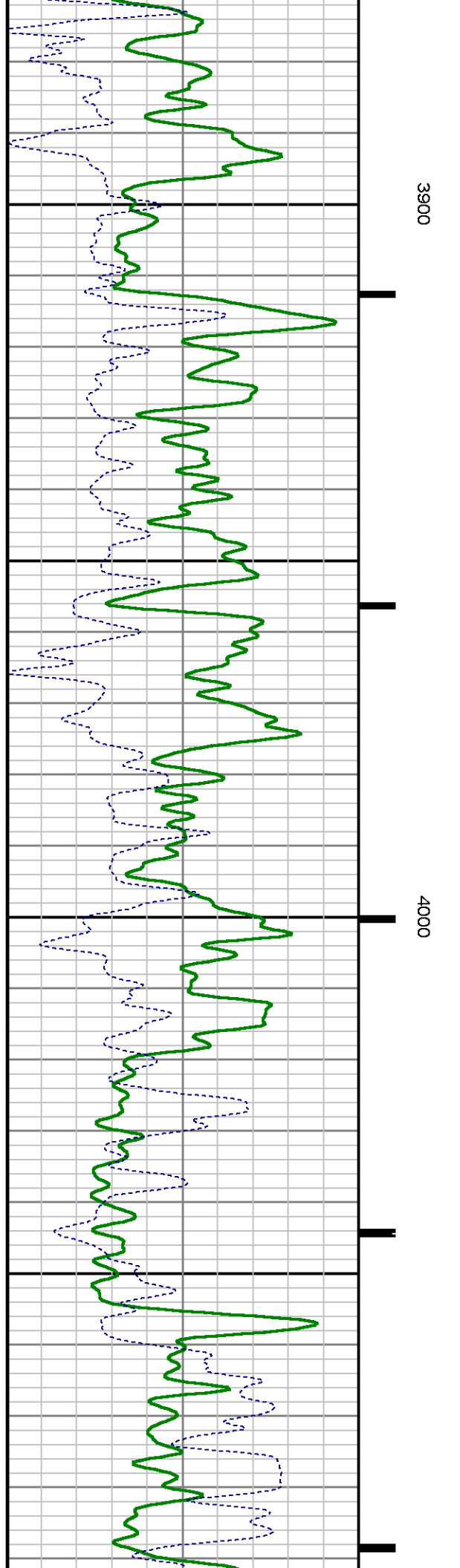
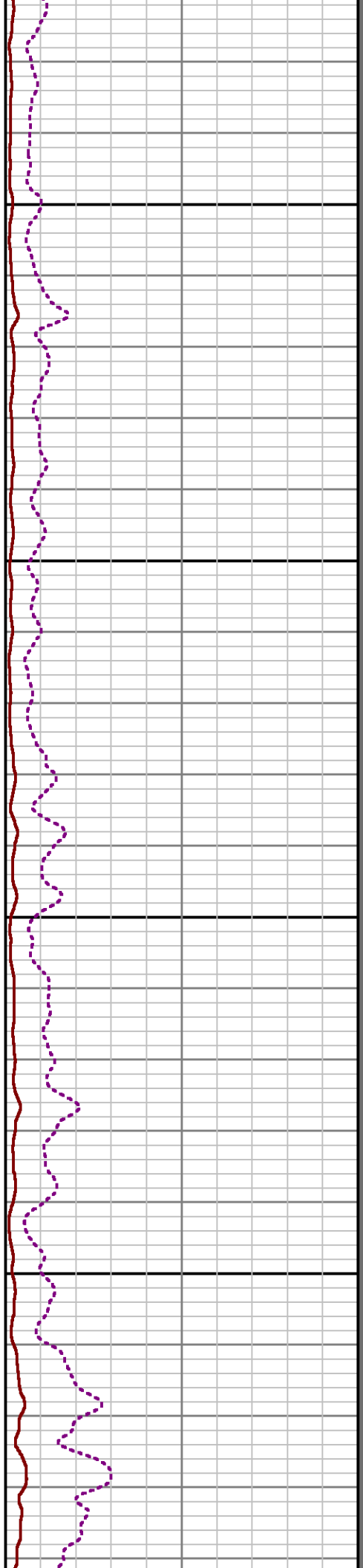
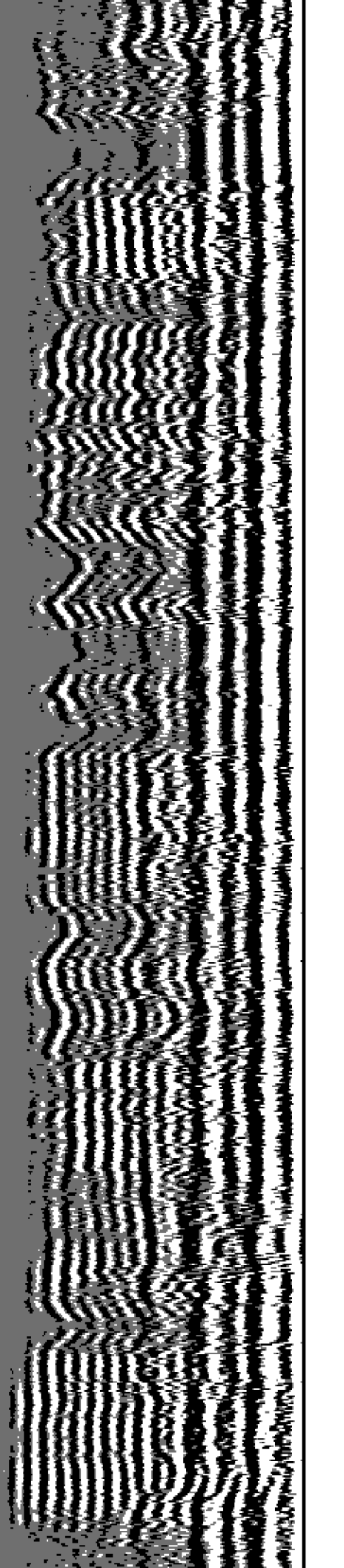


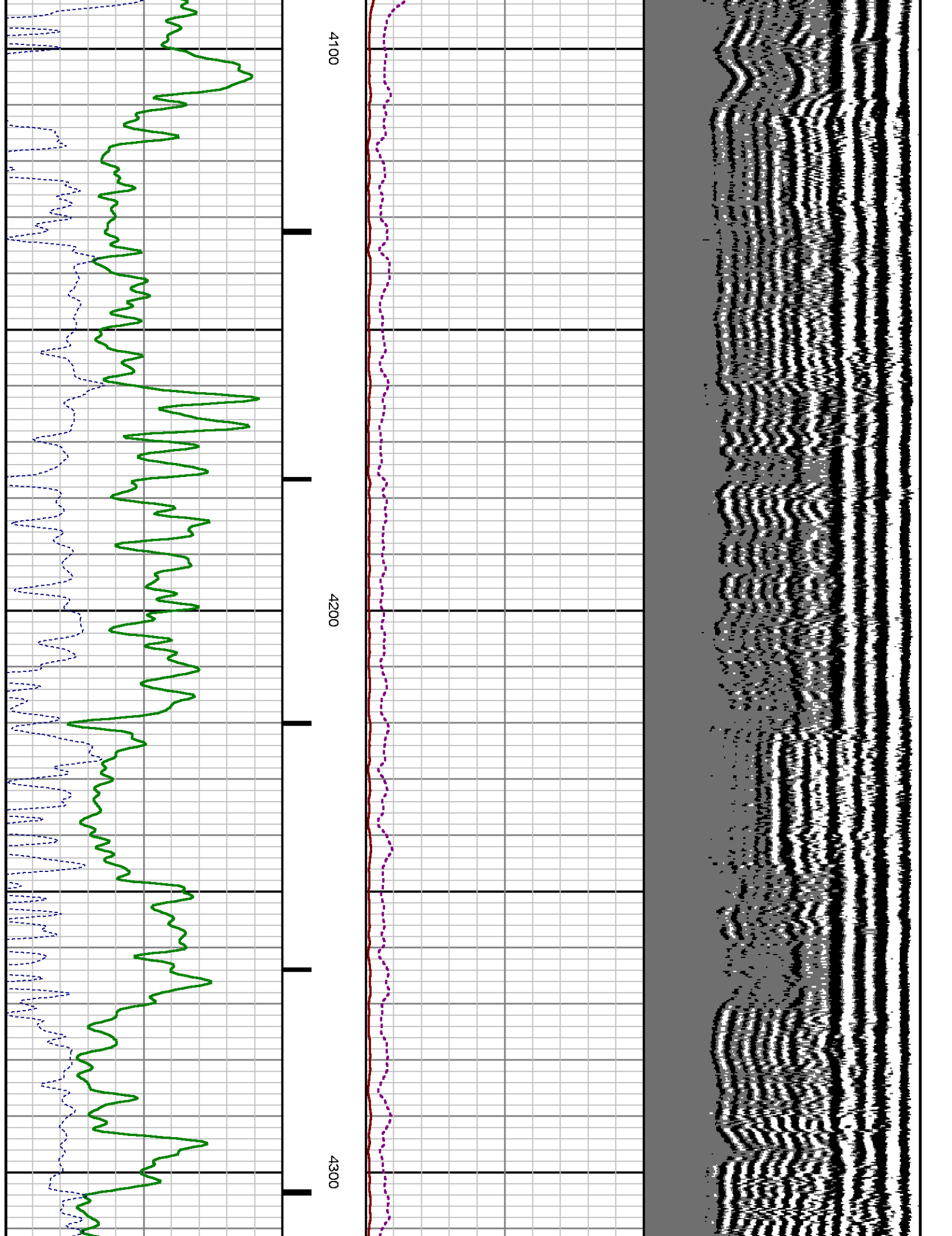


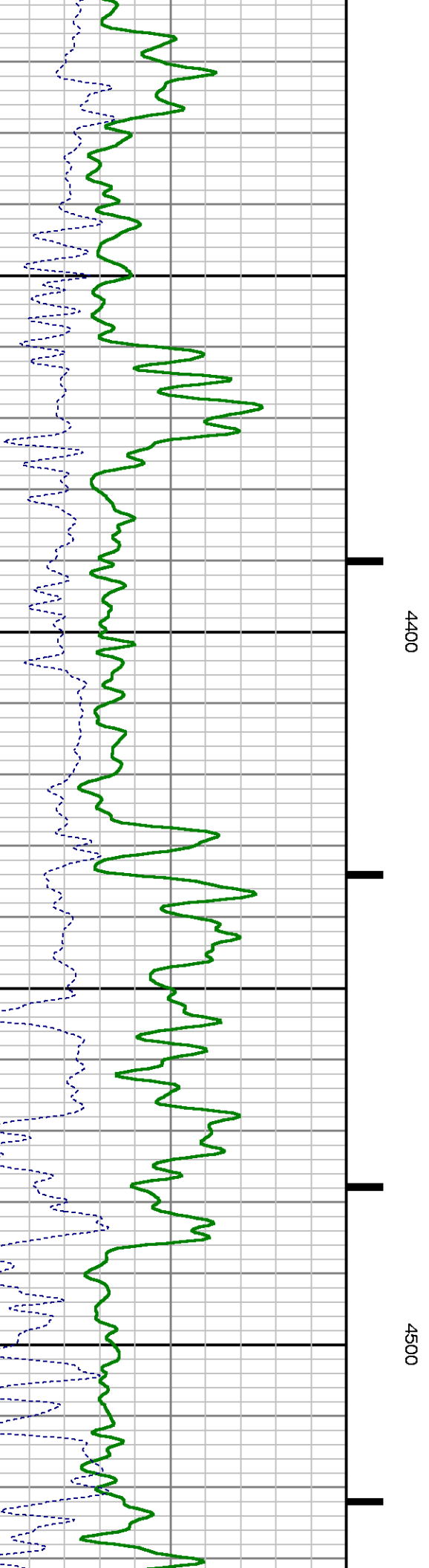
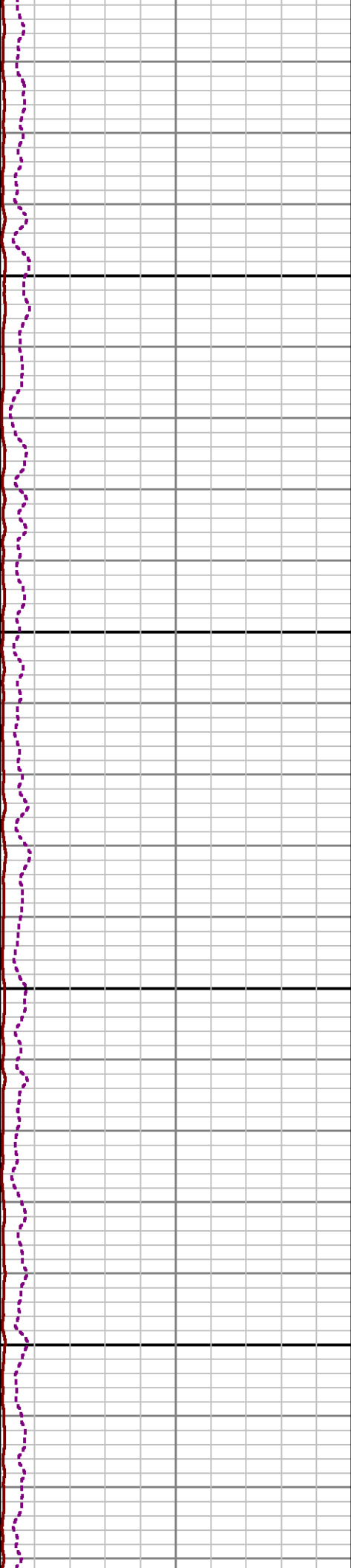
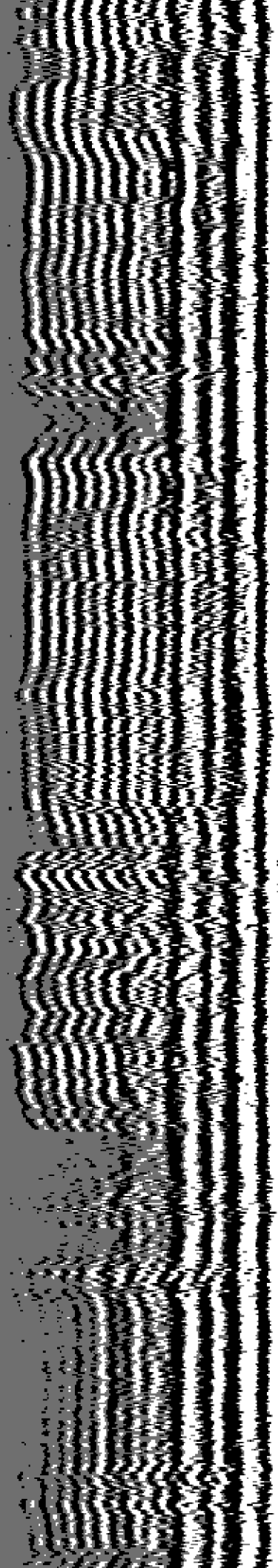
3700

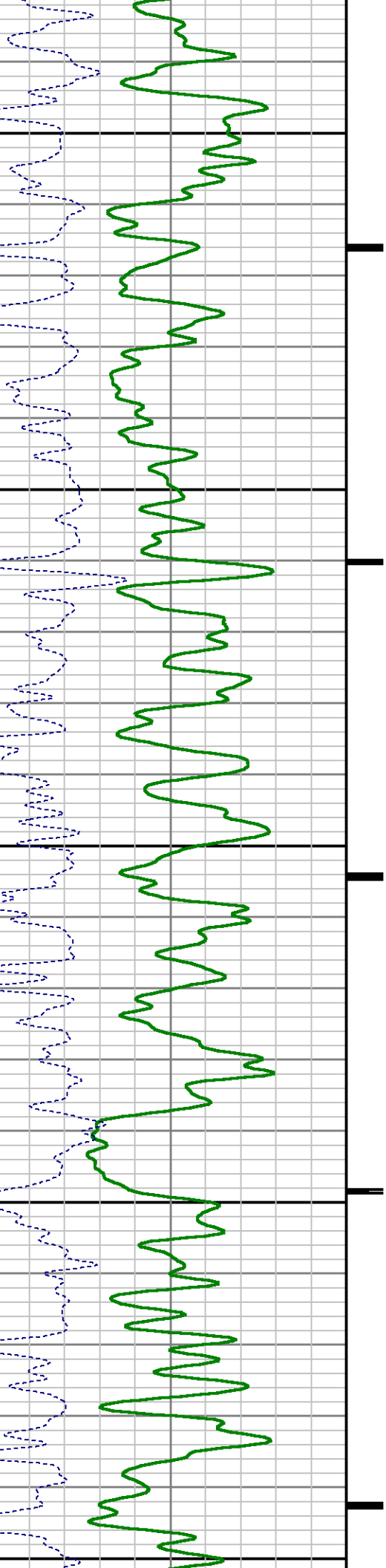
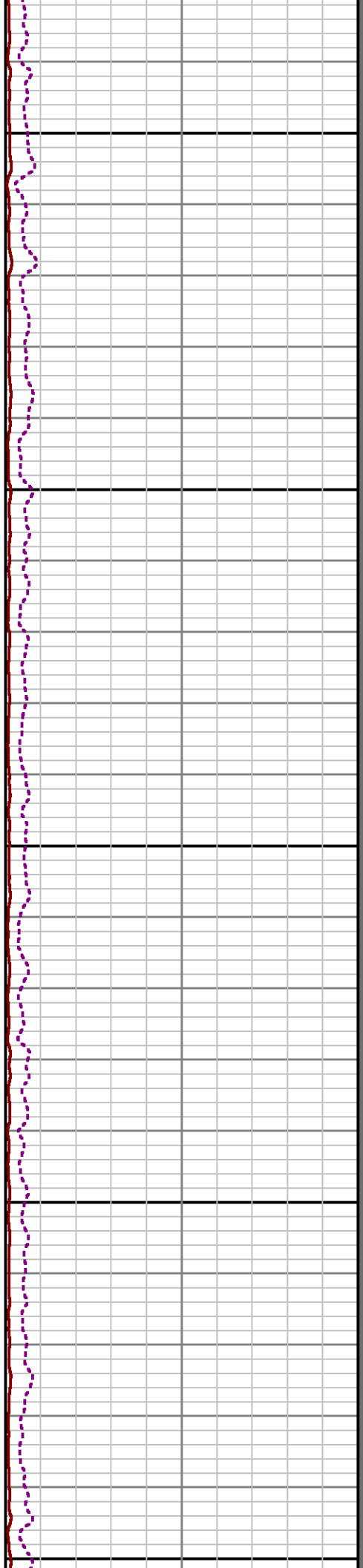
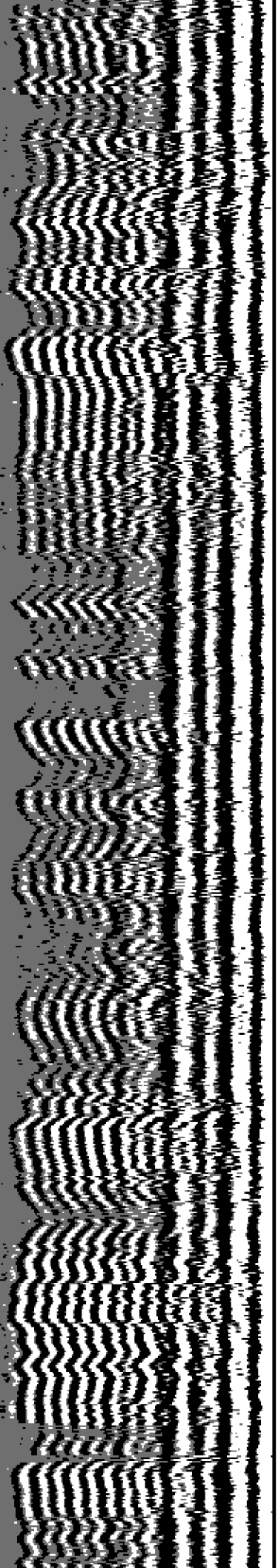
3800





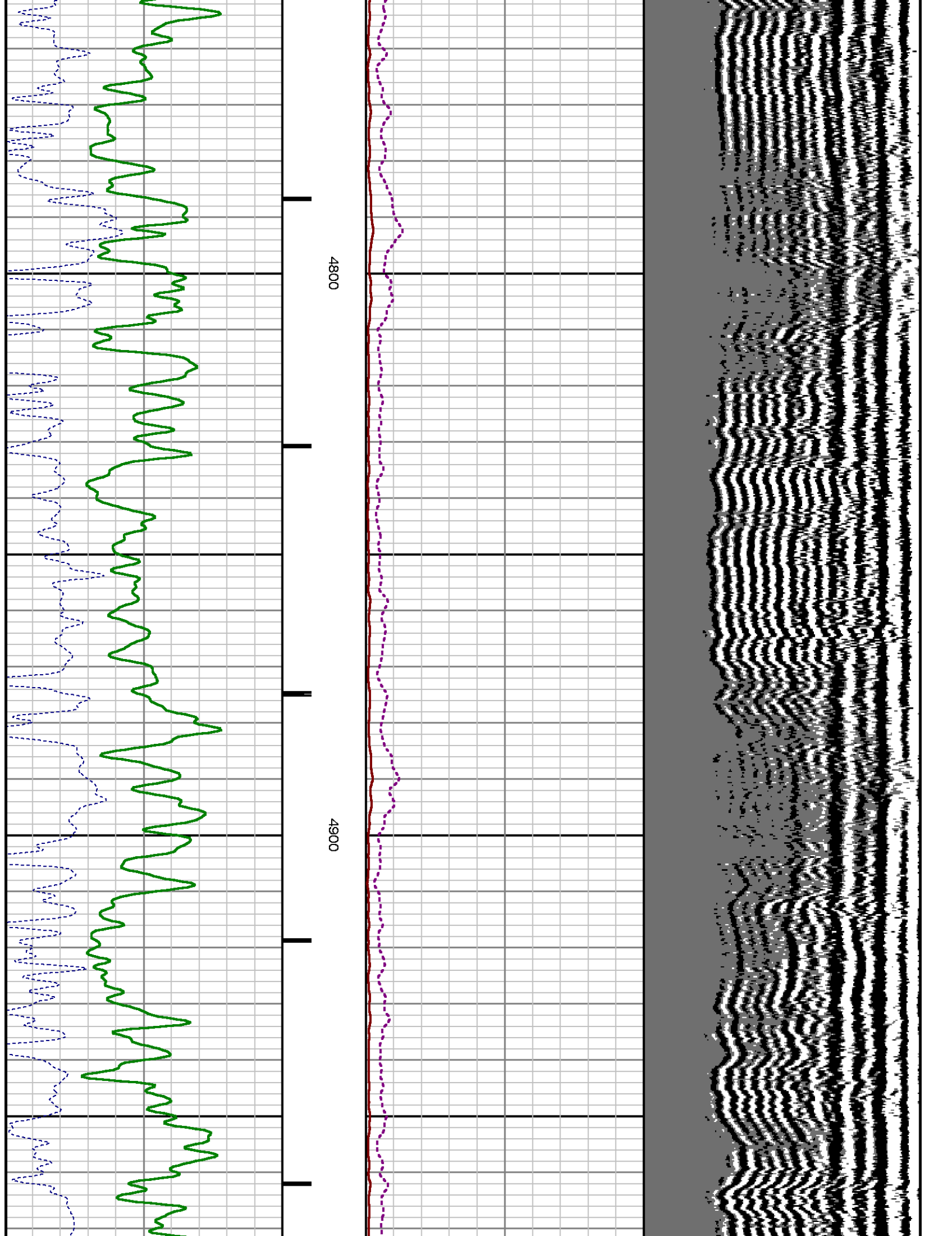


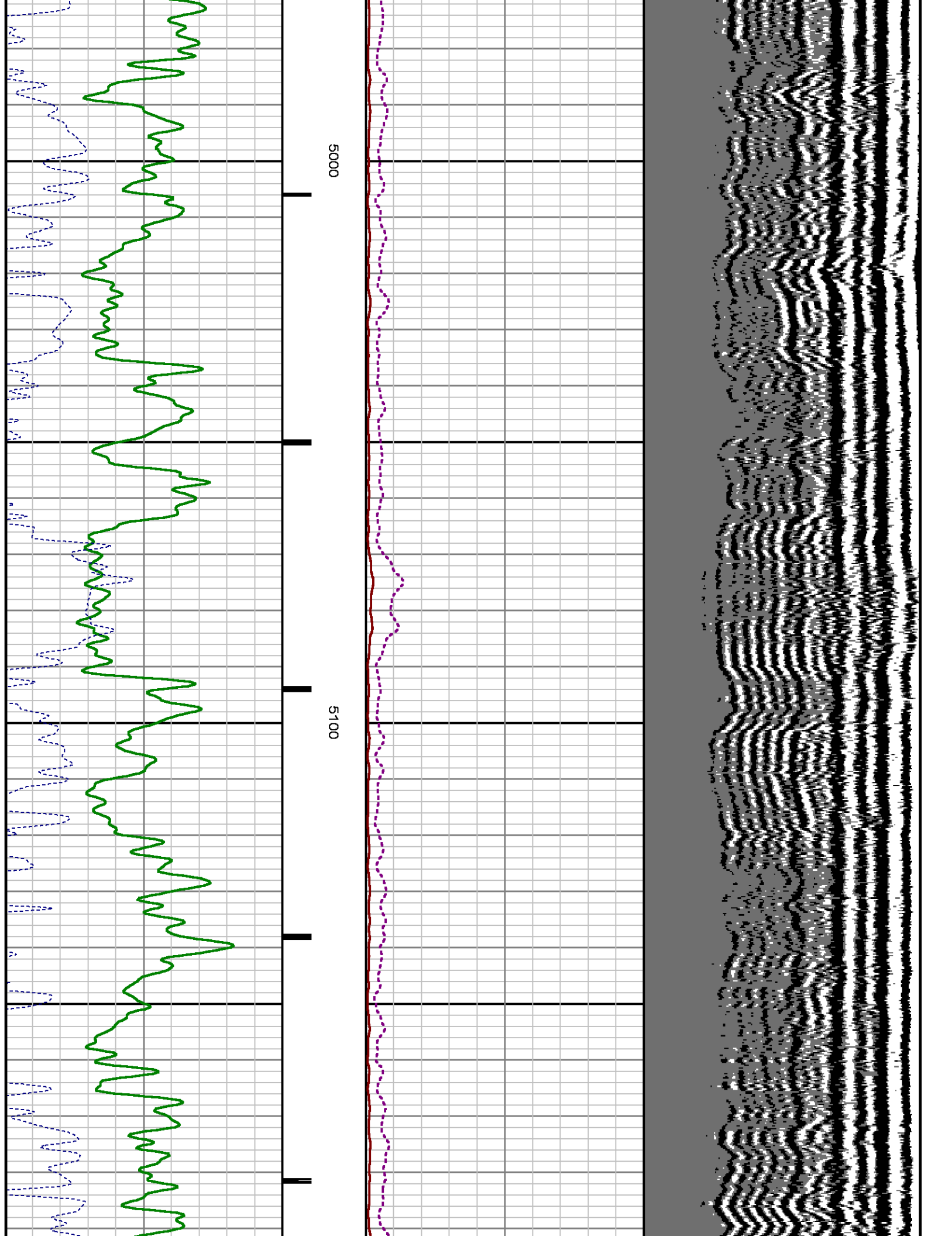


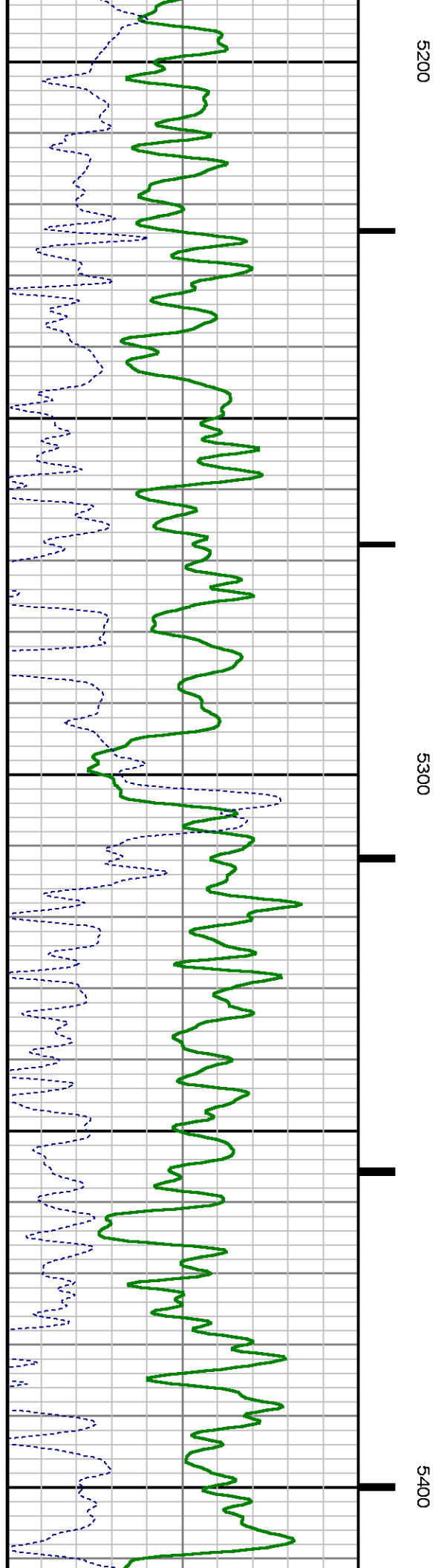
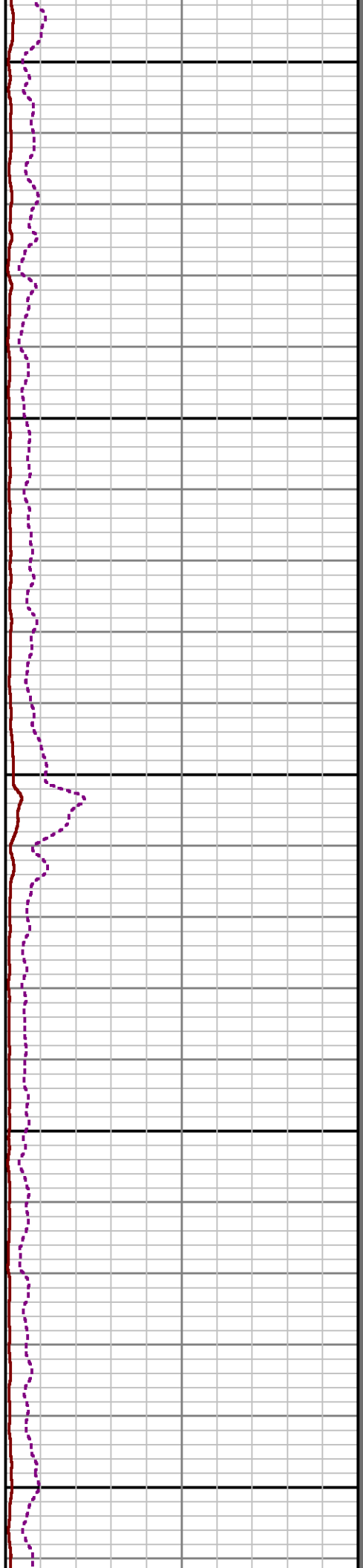
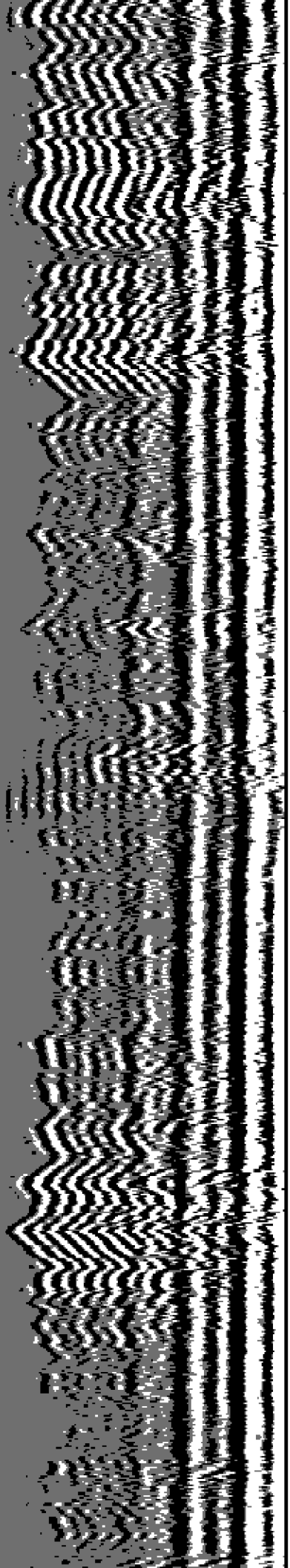


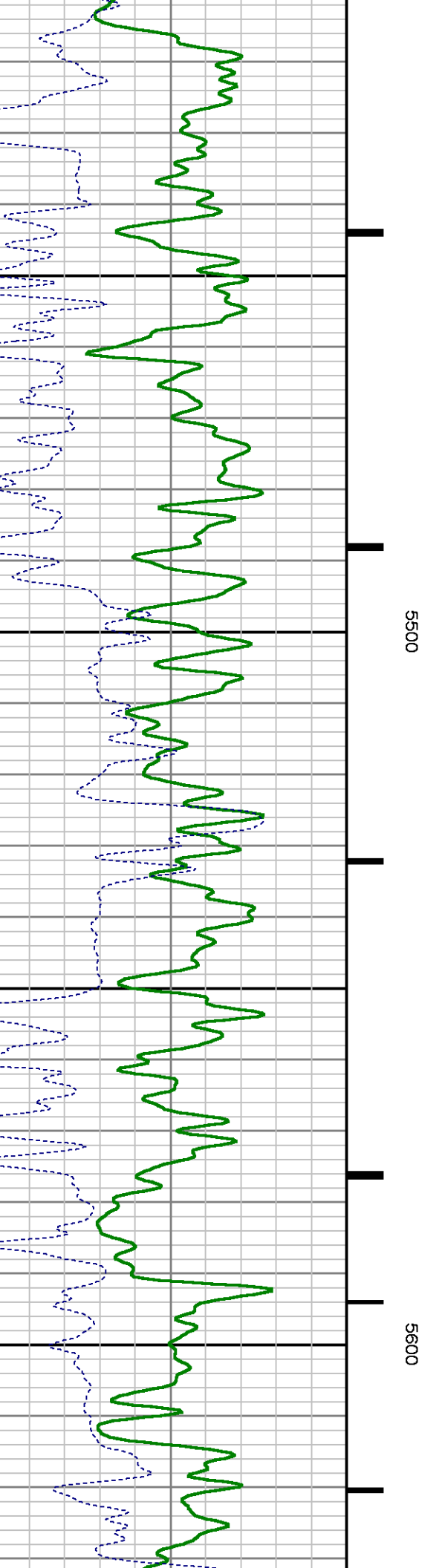
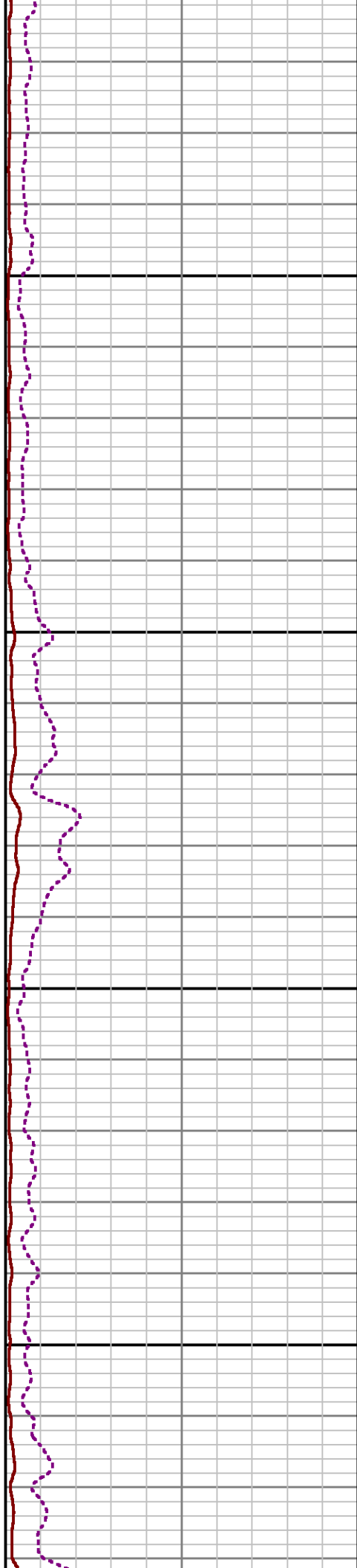
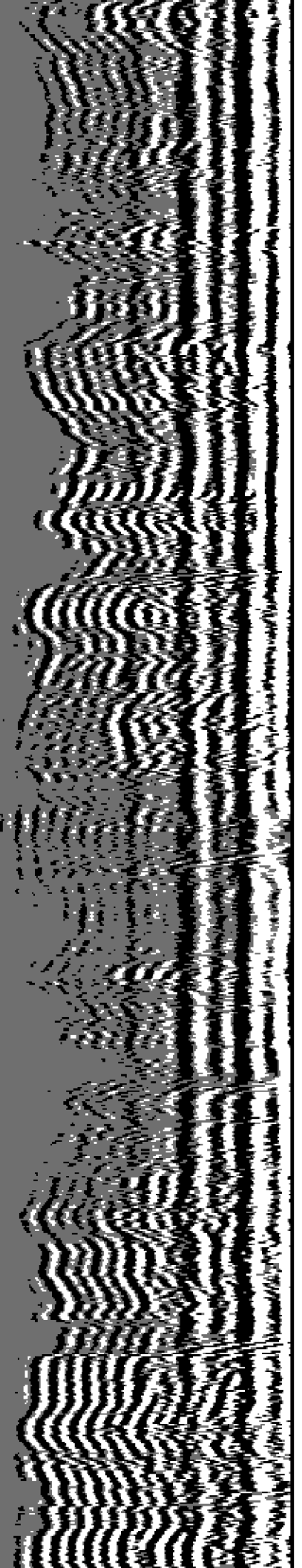
4600

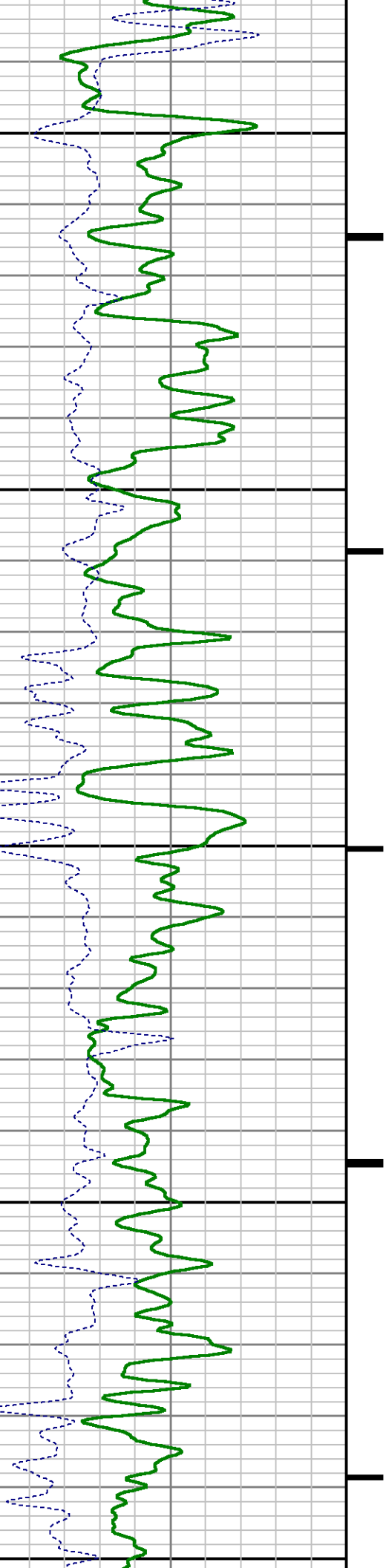
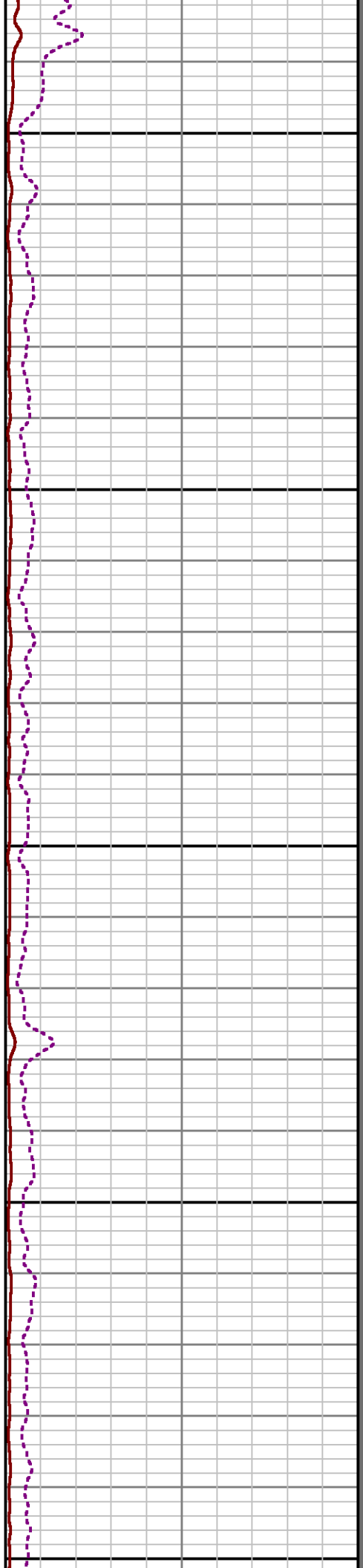
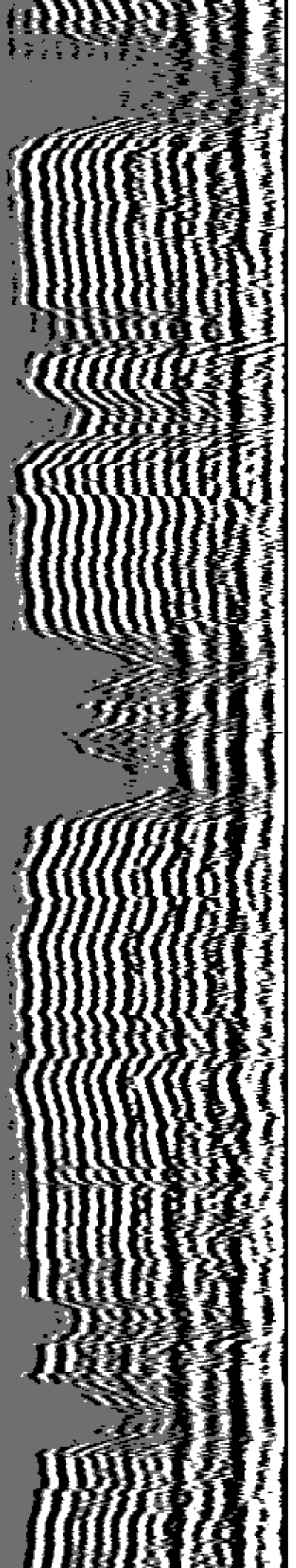
4700





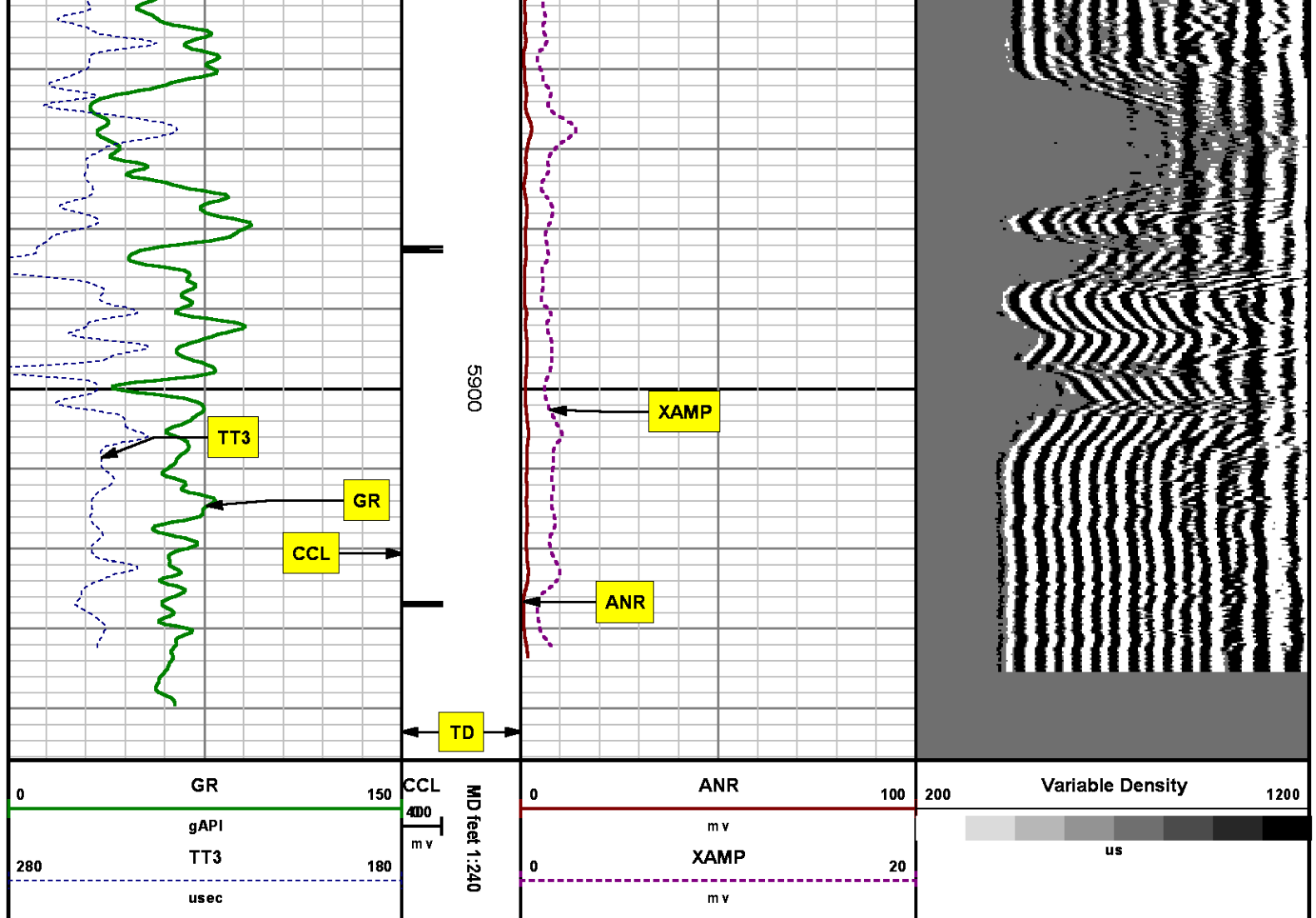






5700

5800



SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	29.950	5946.500
RAL	Amp Gate Start Near	195.000	usec	29.950	5946.500
RAL	Amp Gate Start Radial	195.000	usec	29.950	5946.500
RAL	Amp Gate Width Far	25.000	usec	29.950	5946.500
RAL	Amp Gate Width Near	25.000	usec	29.950	5946.500
RAL	Amp Gate Width Radial	25.000	usec	29.950	5946.500
RAL	casing od	4.500	inches	29.950	5946.500

RAL	casing wt	11.600	lbm/ft	29.950	5946.500
RAL	FB Start Far	291.900	usec	29.950	5946.500
RAL	FB Start Near	180.000	usec	29.950	5946.500
RAL	FB Start Radial	180.000	usec	29.950	5946.500
RAL	FB Thresh Far	10.000	mv	29.950	5946.500
RAL	FB Thresh Near	4.000	mv	29.950	5946.500
RAL	FB Thresh Radial	4.000	mv	29.950	5946.500
RAL	Fluid Travel Time	200.000	usec/ft	29.950	5946.481

DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-12.360	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	-11.360	AFAR SIG TT5
2459XA	-7.250	CCL
2459XA	-5.390	GR
2459XA	0.000	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

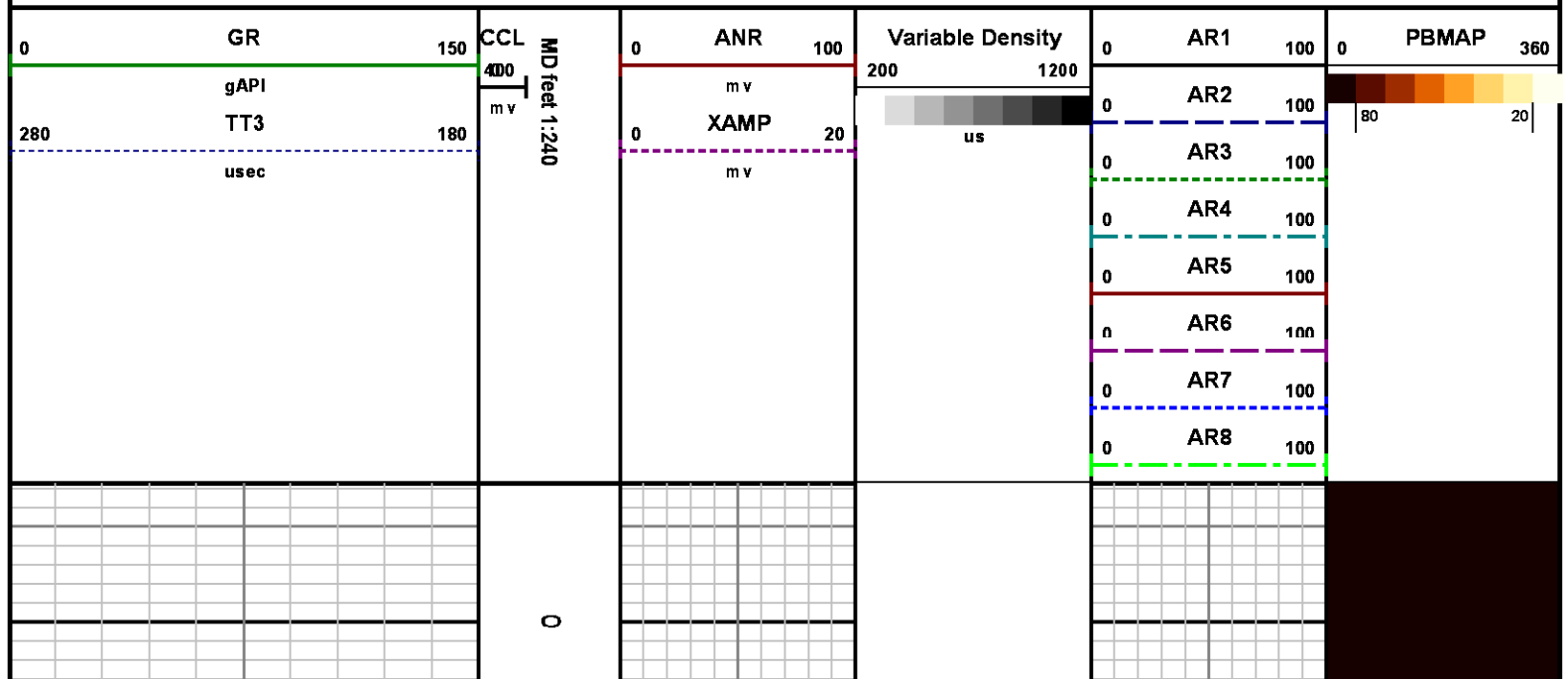
Well : C&C ENERGY GM 11-13

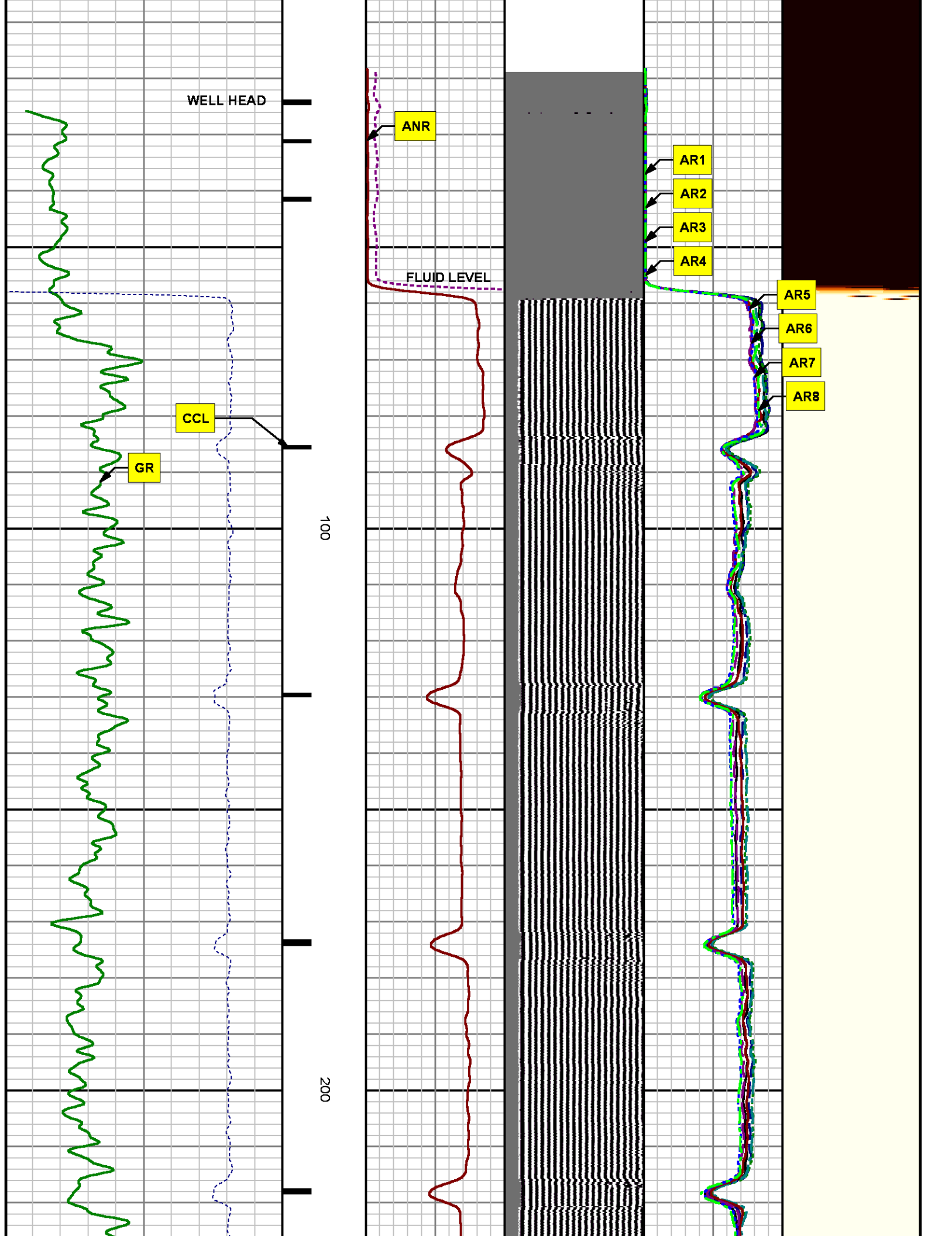
File Name : d:\welldata\wpx\gm 11-13\11cbl\main.xtf

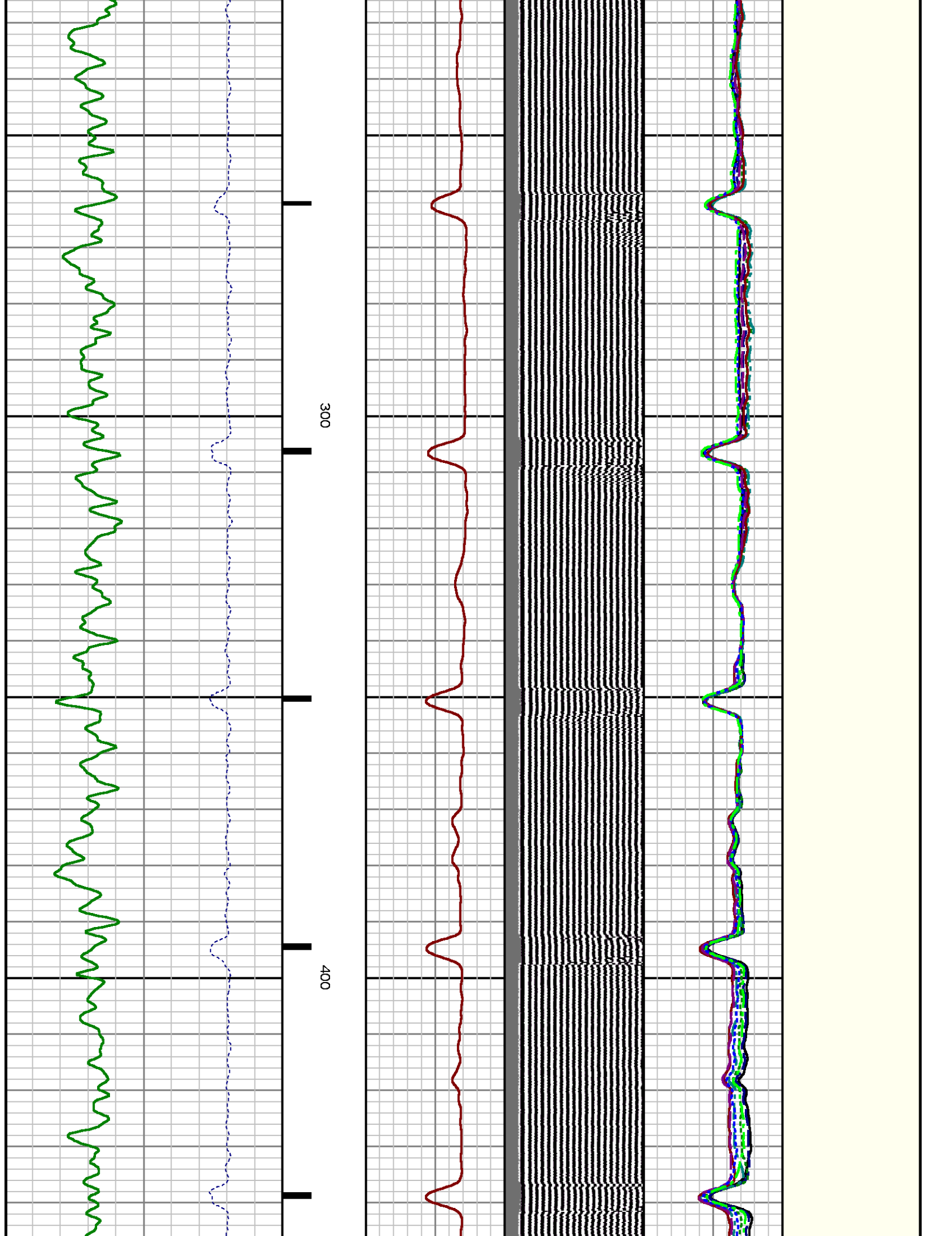
Mode : PlotMgr 5.4.504

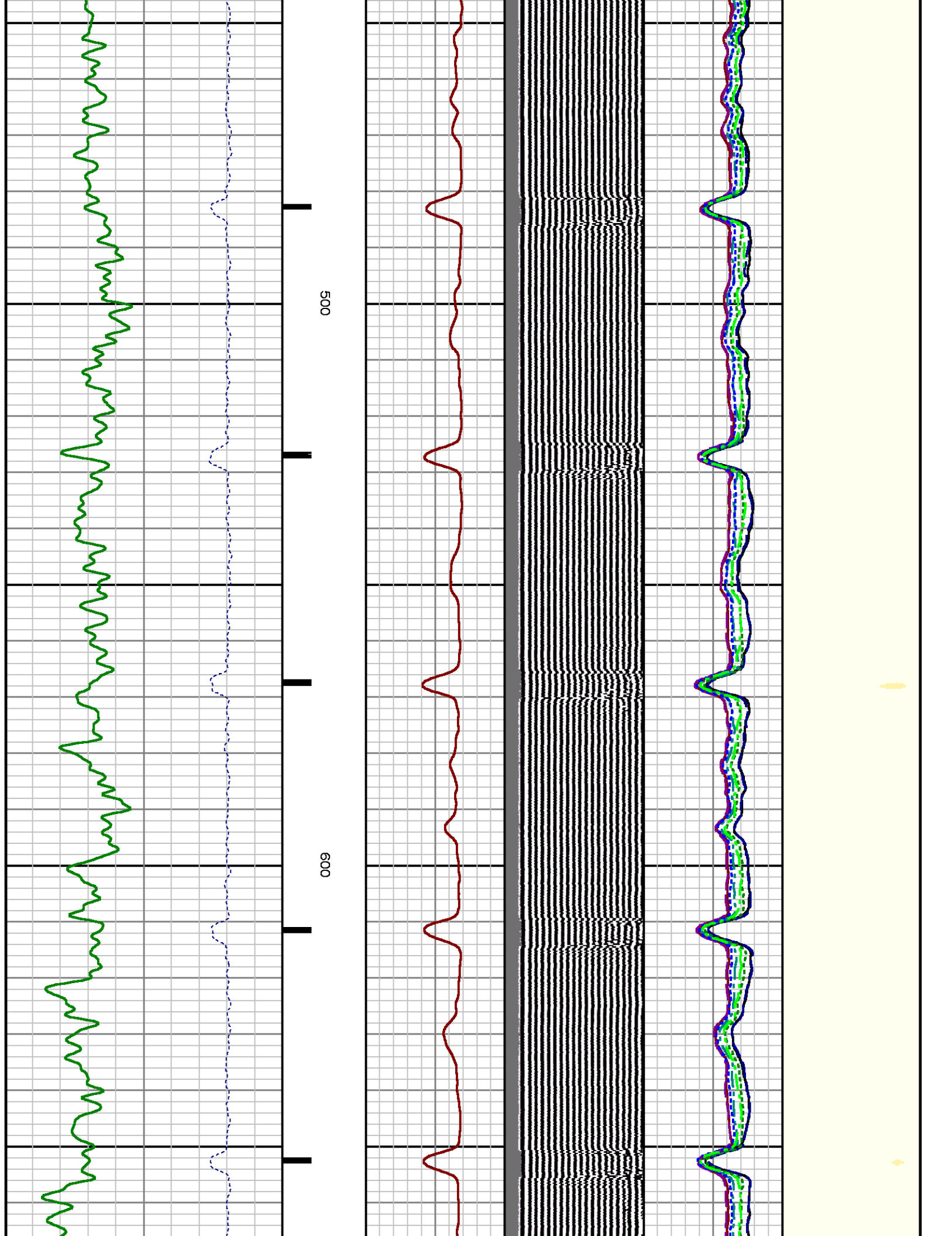
Interval : -14.50 - 5946.50 feet UP

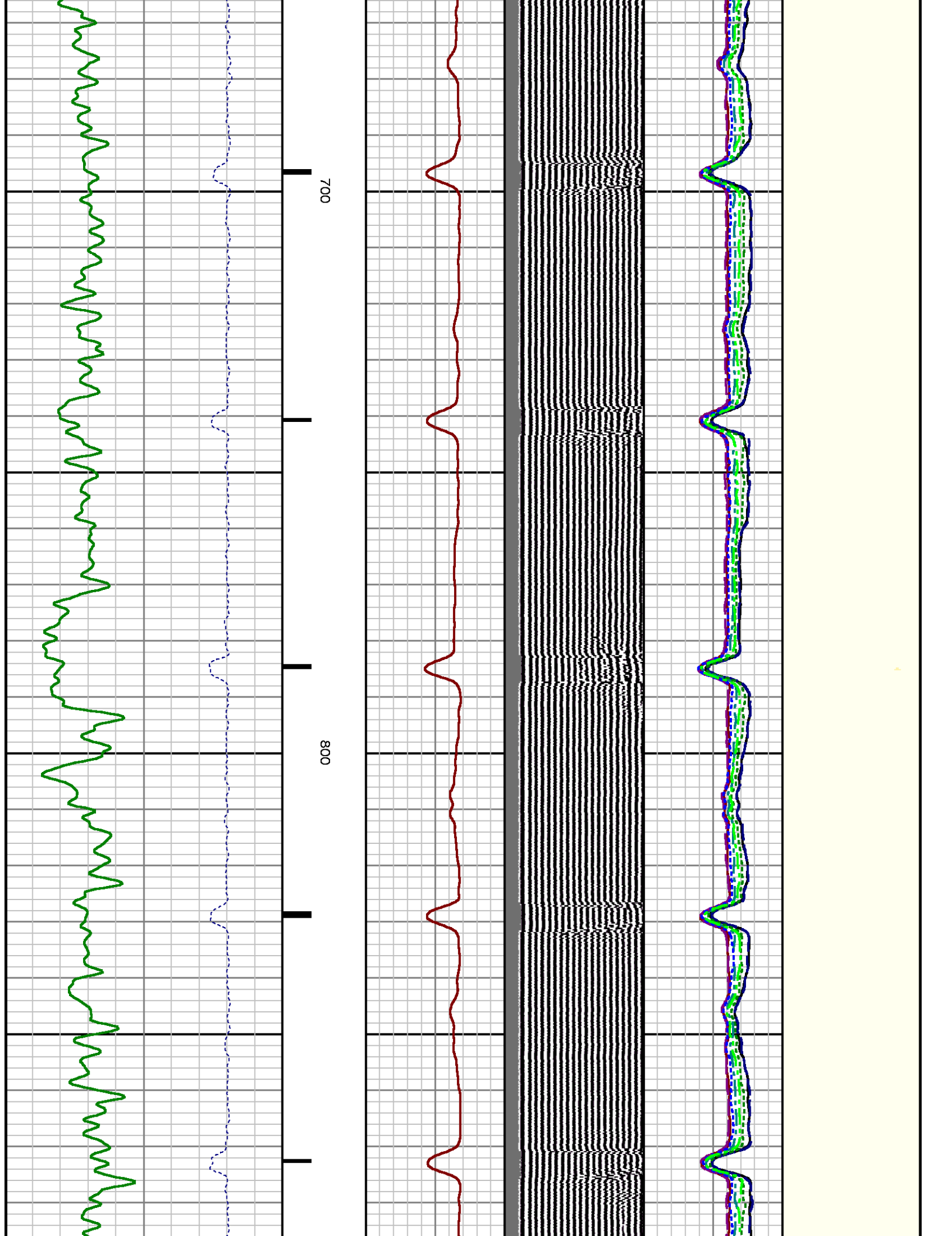
Created : 7/24/2014 8:48:02 AM

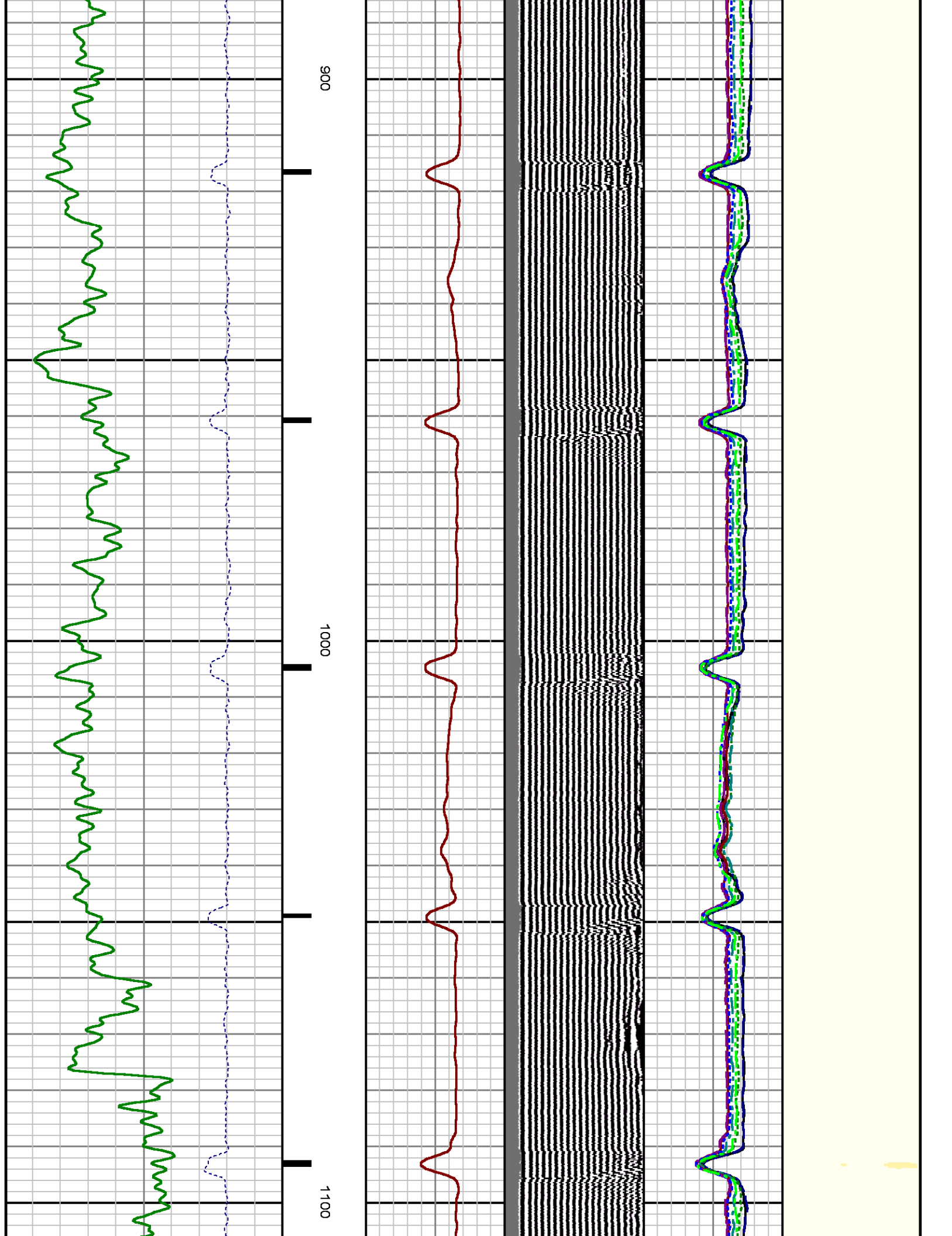


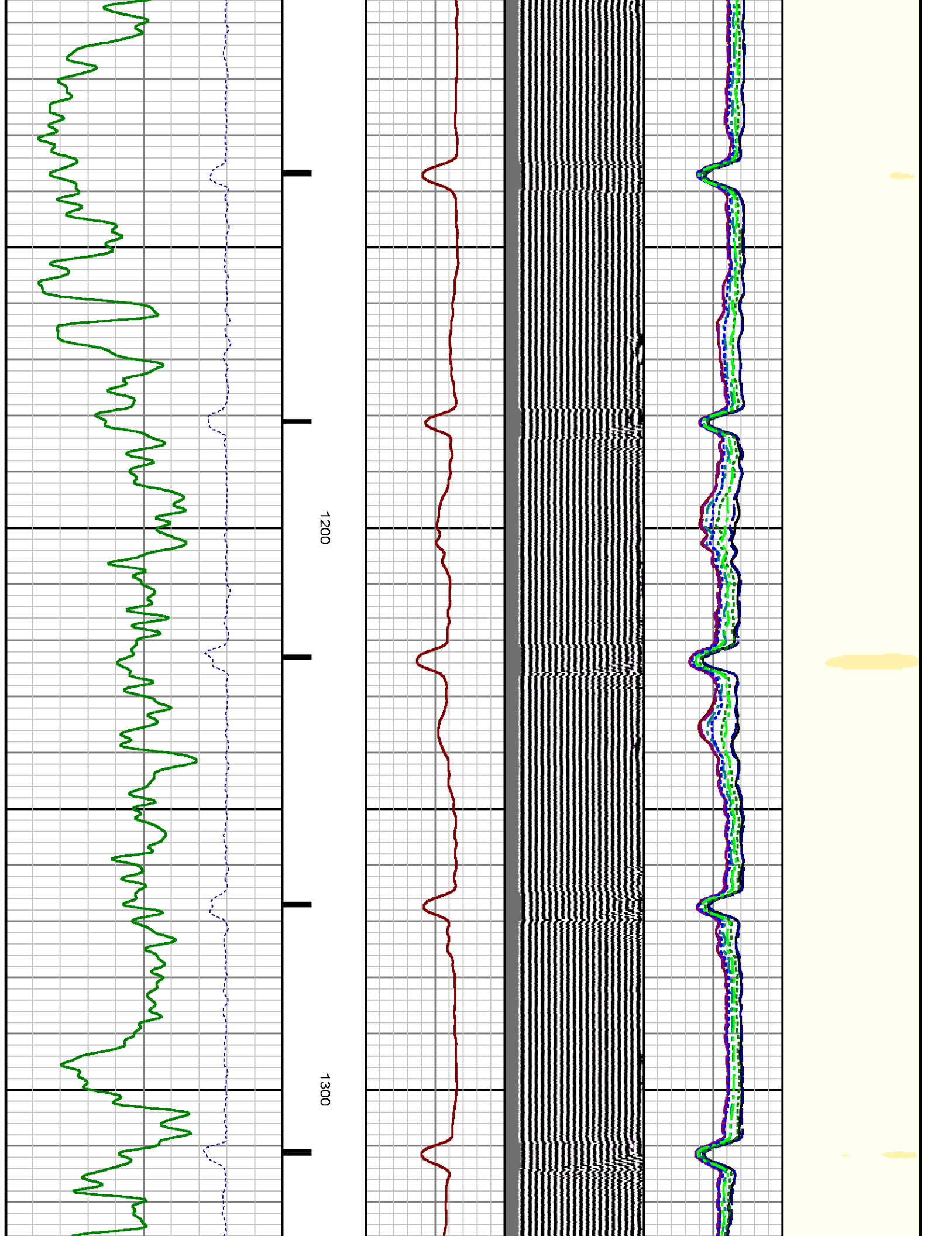


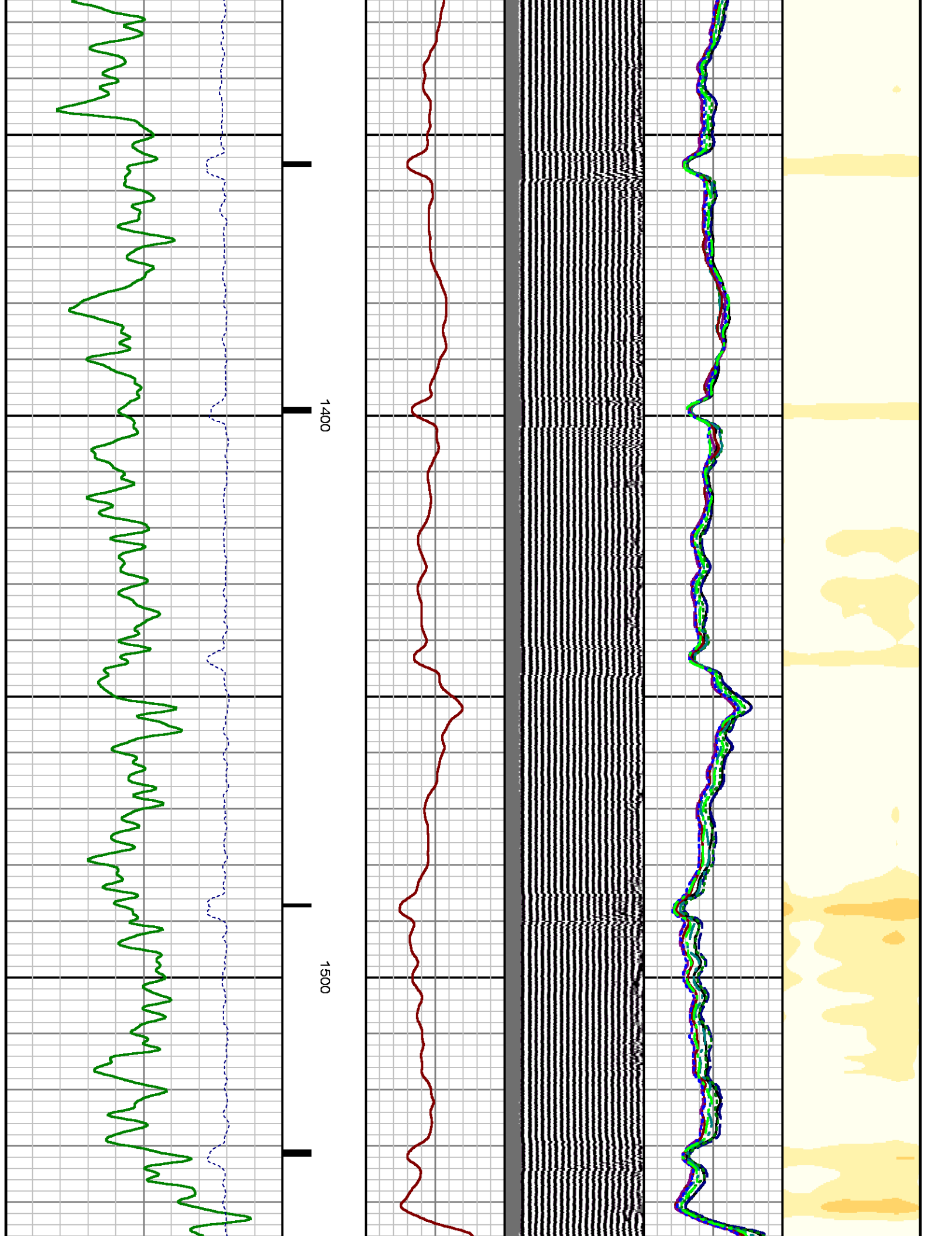


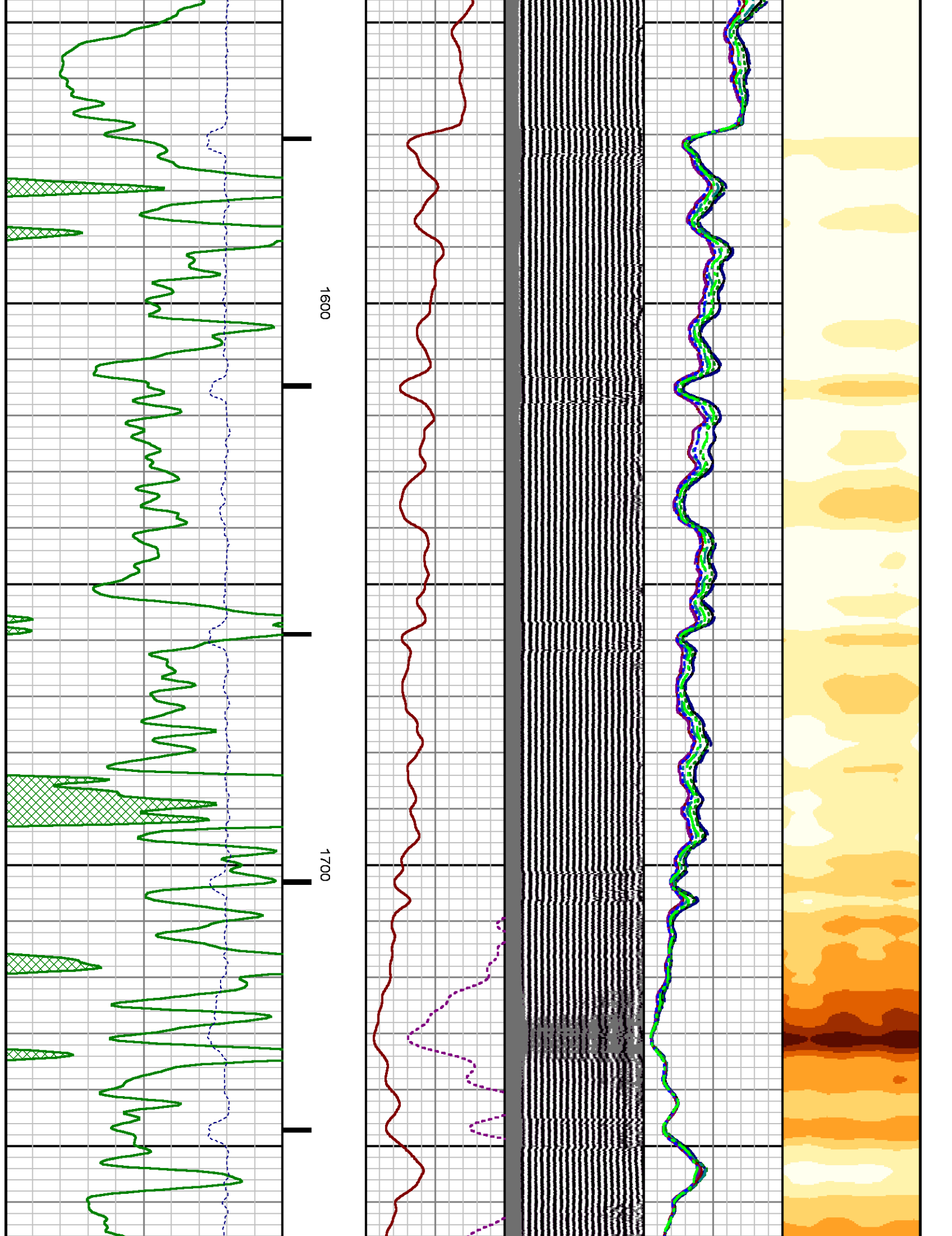


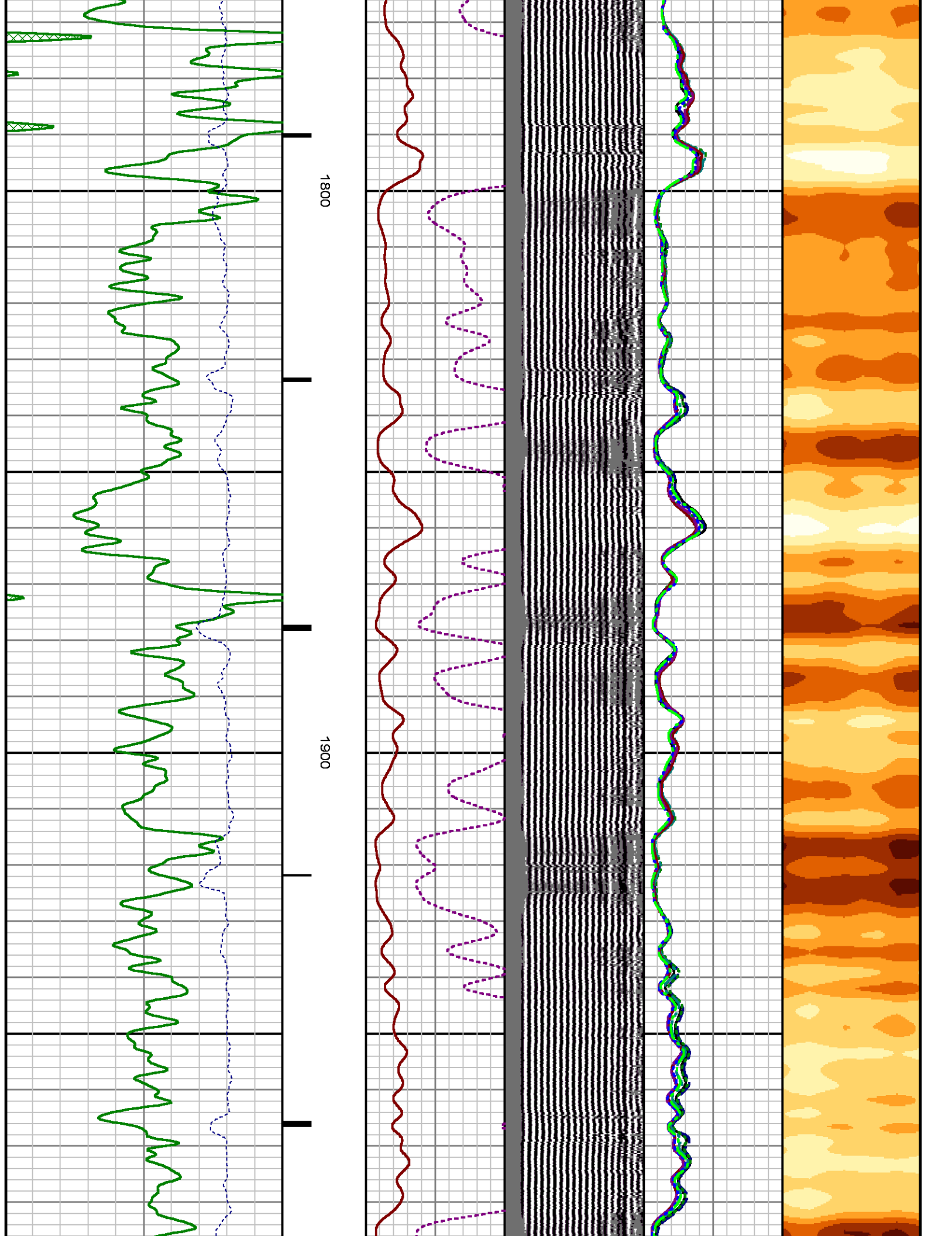


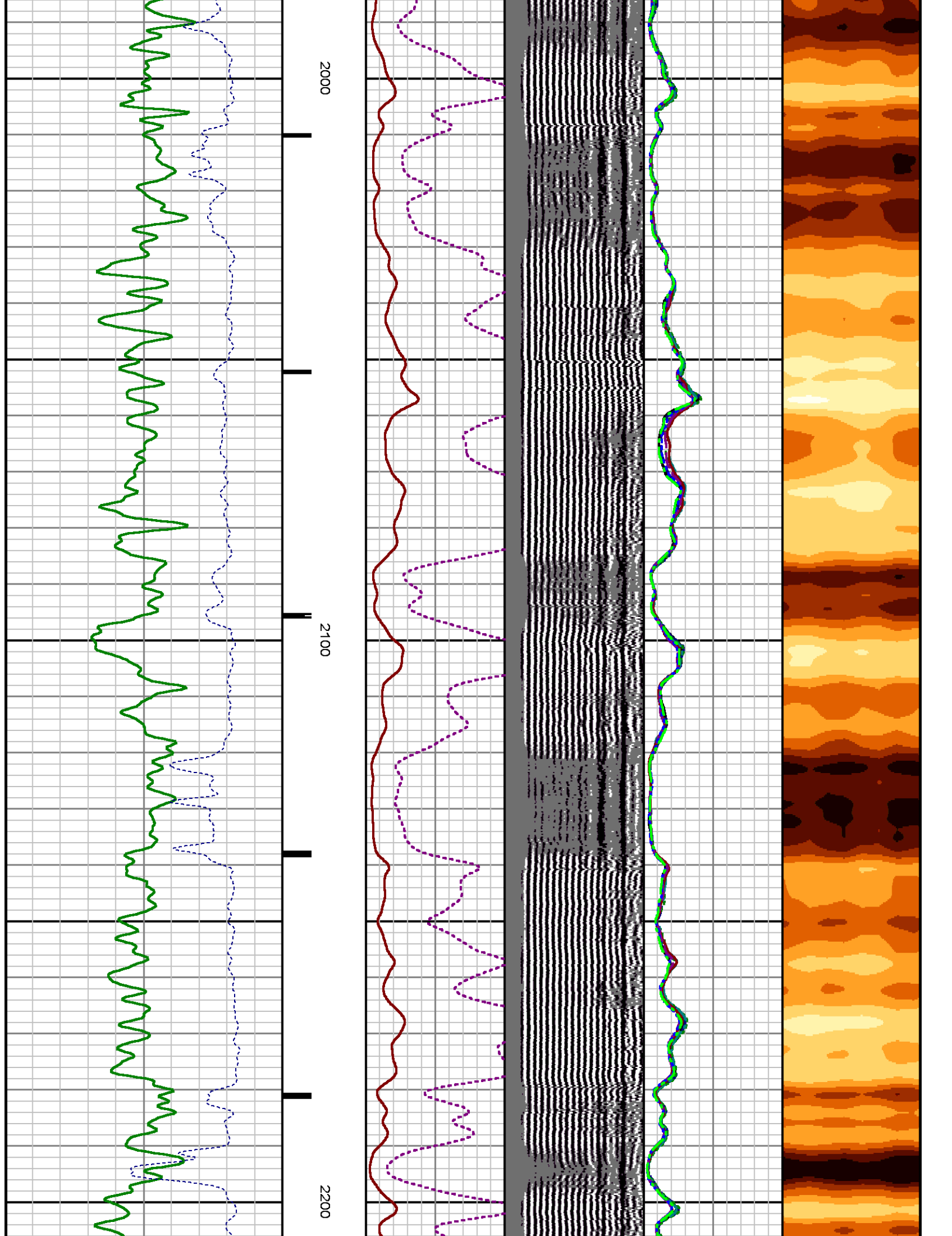


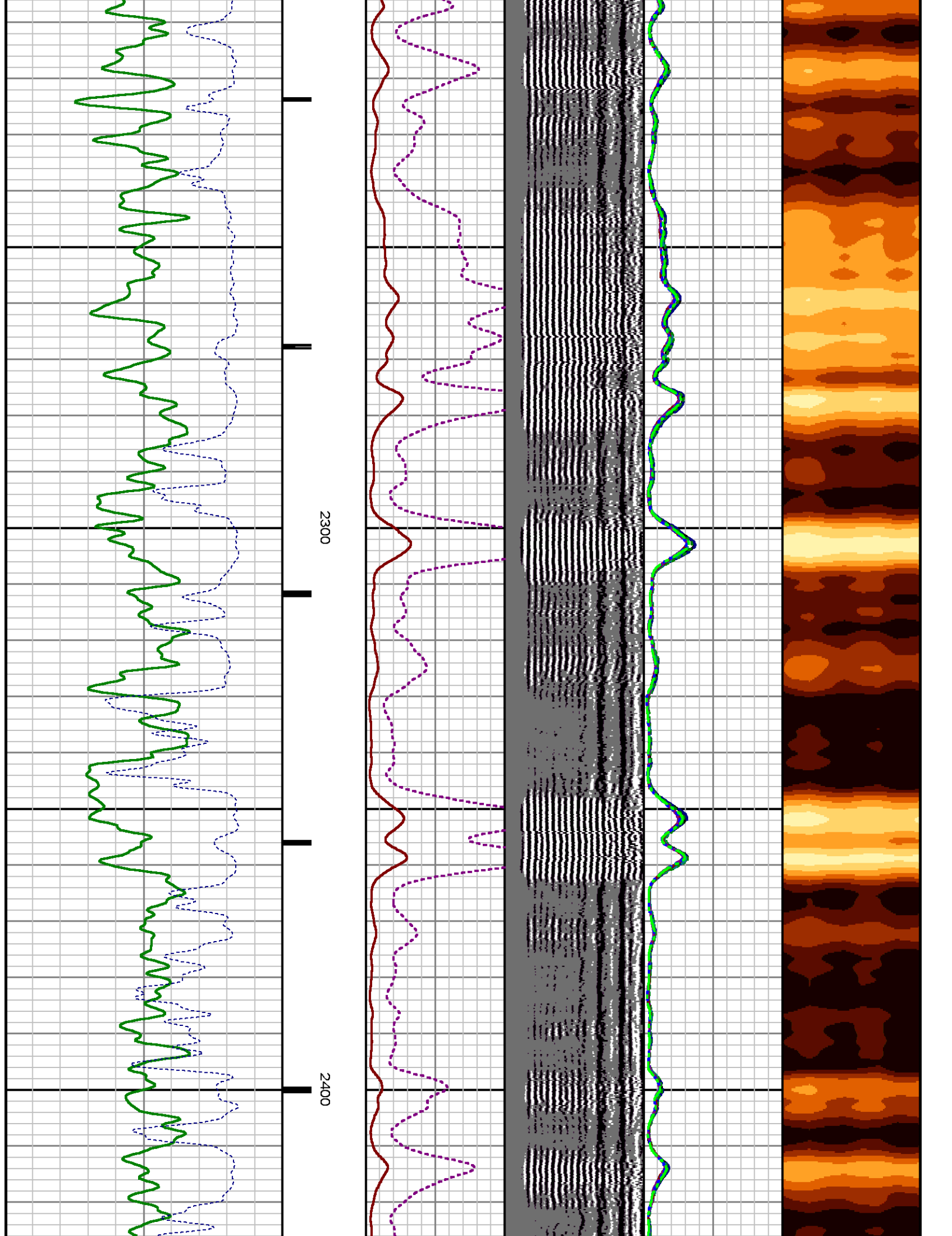


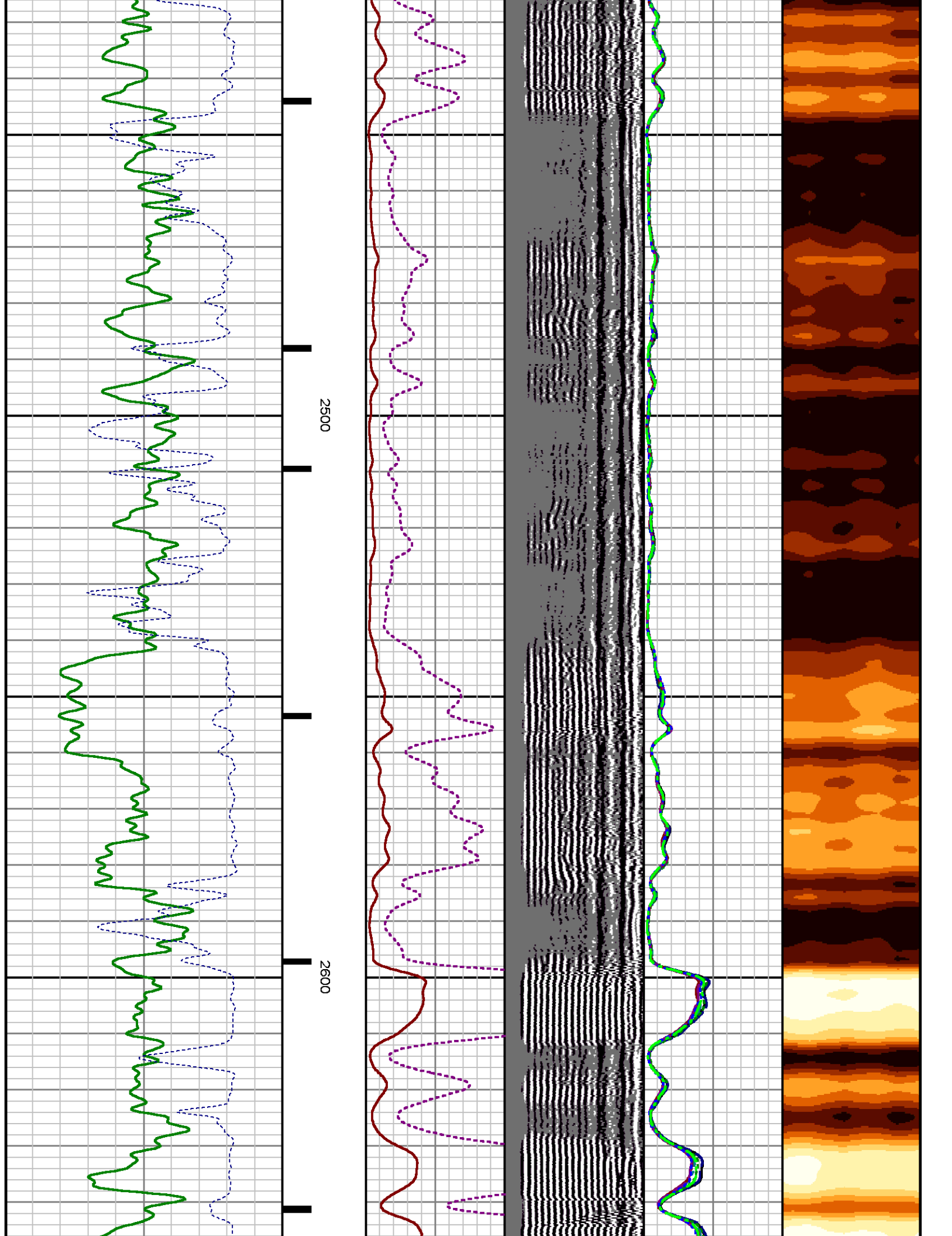


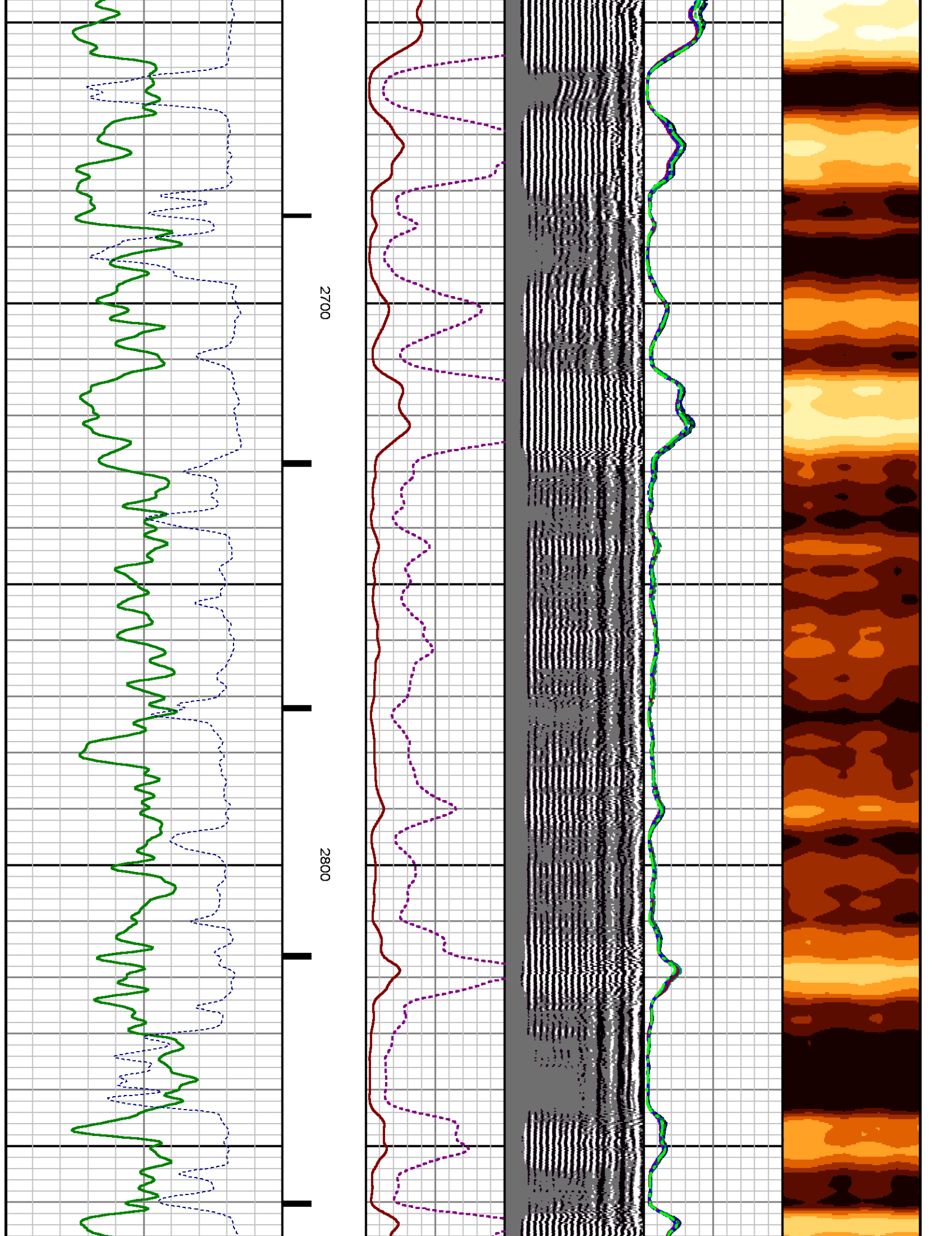


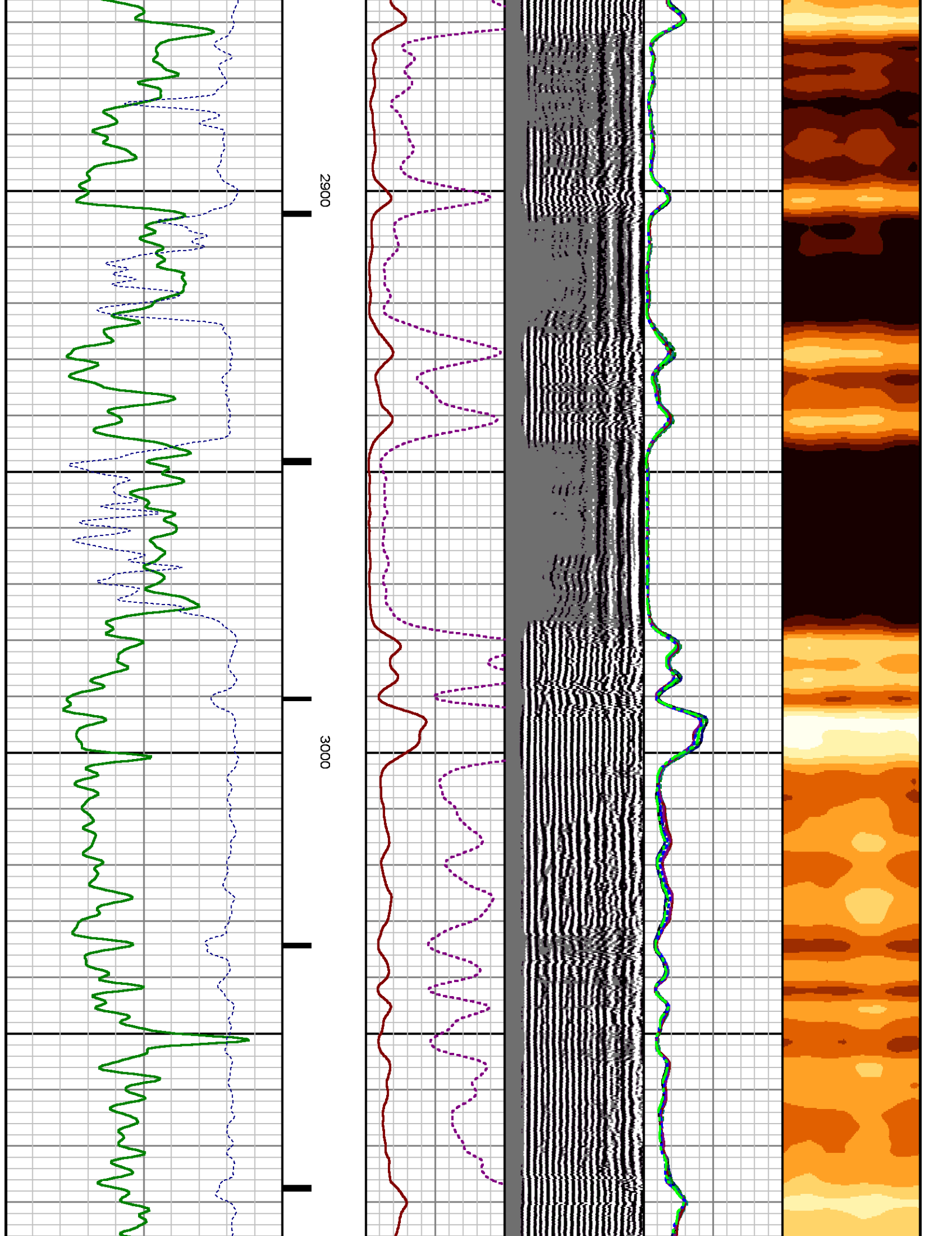


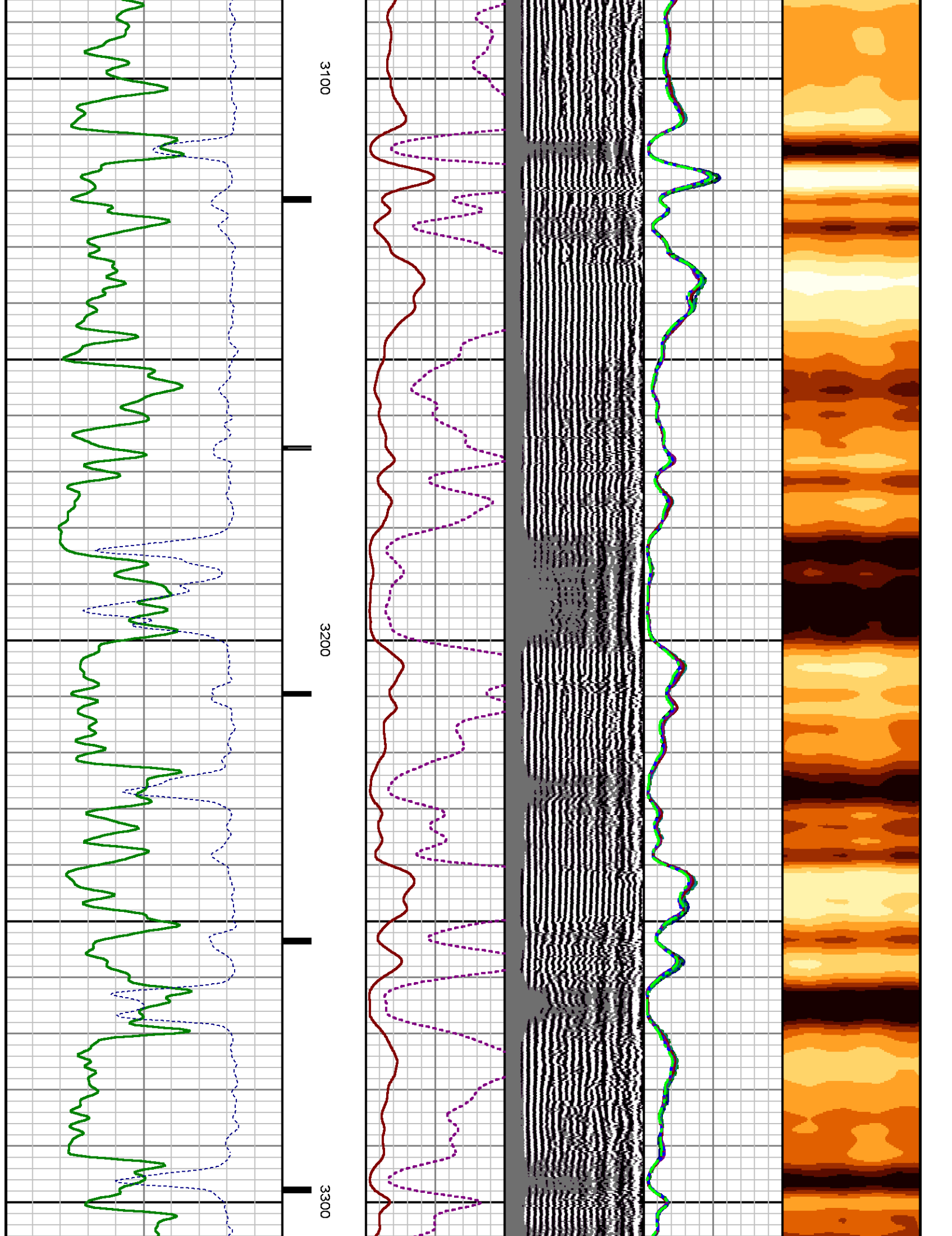


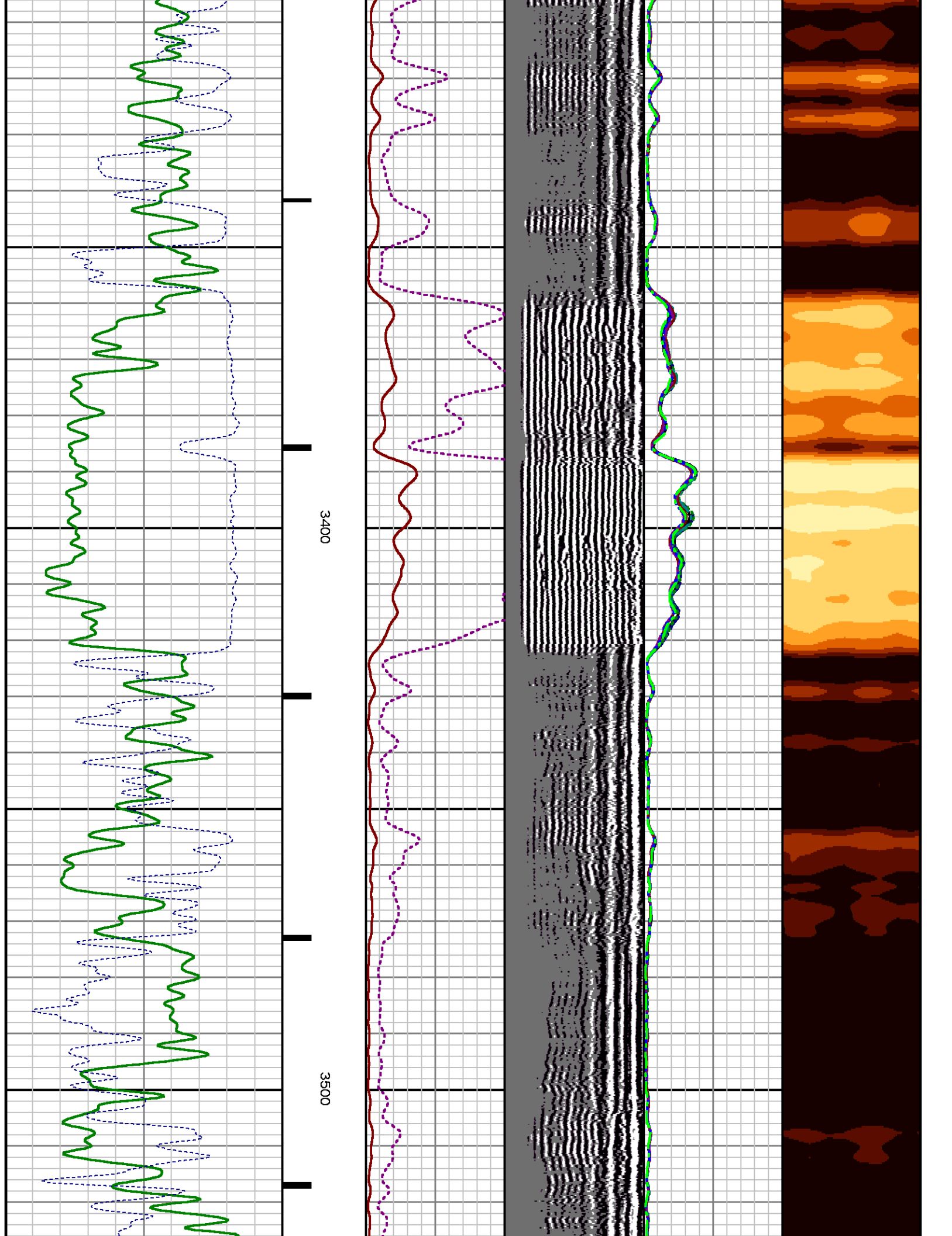


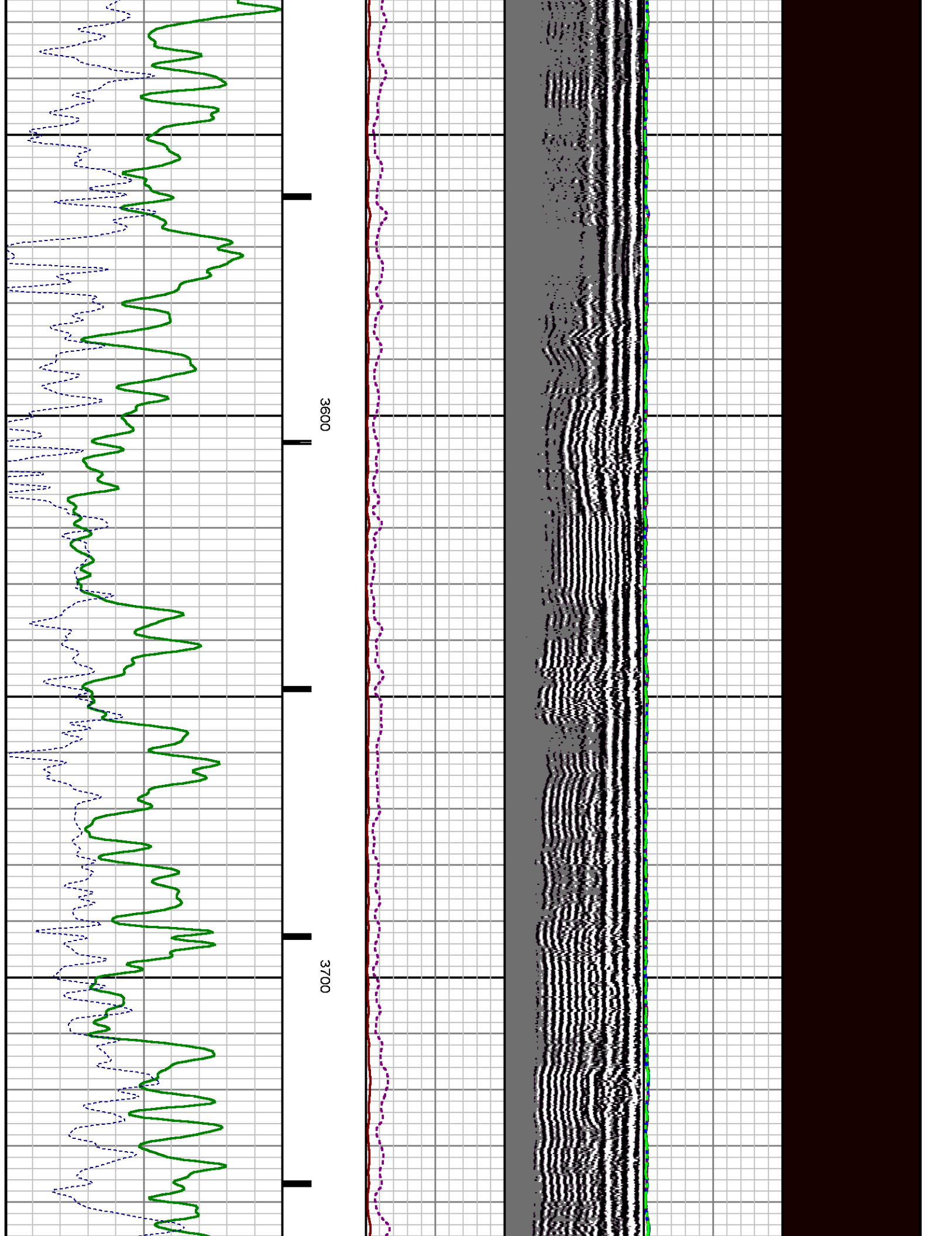


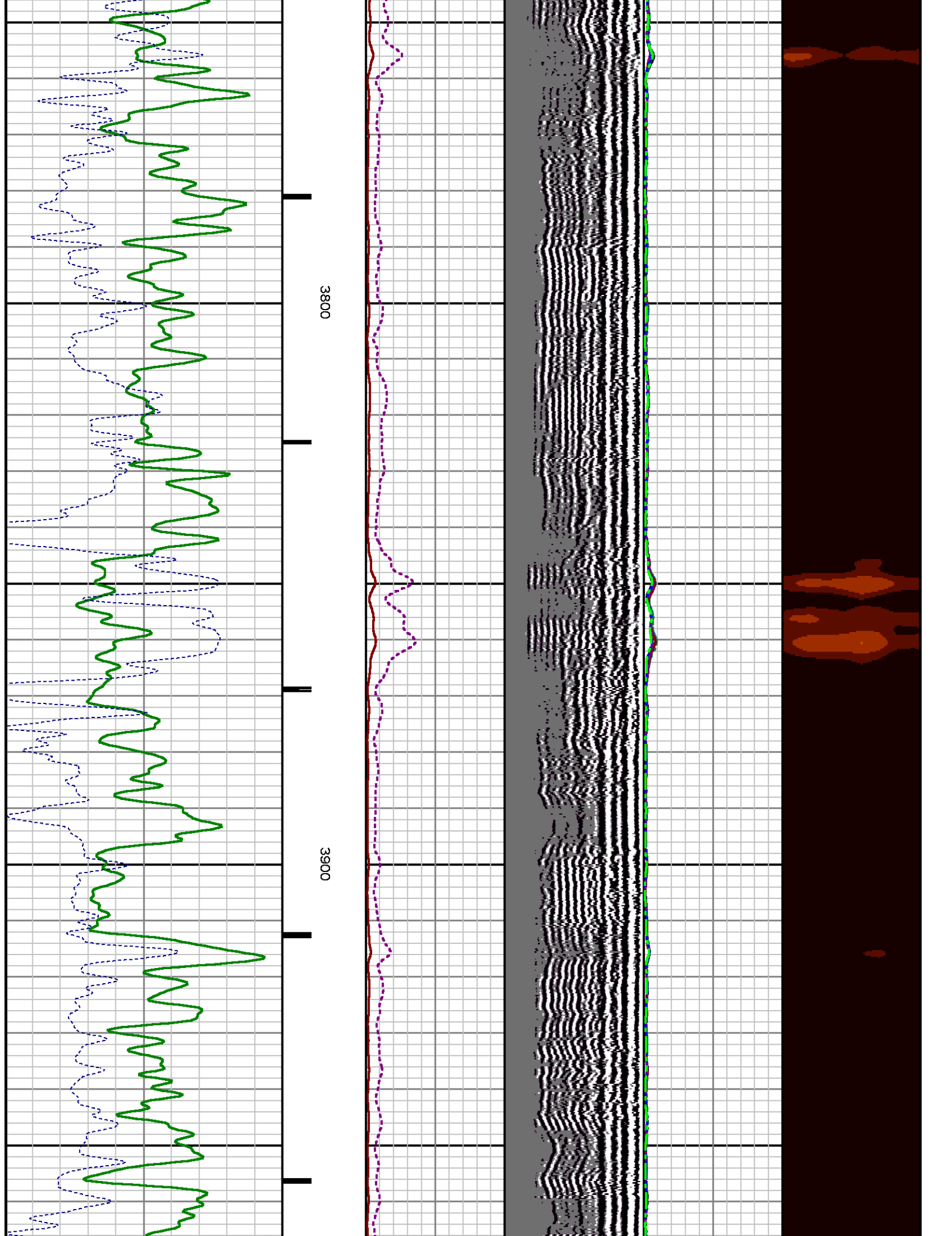


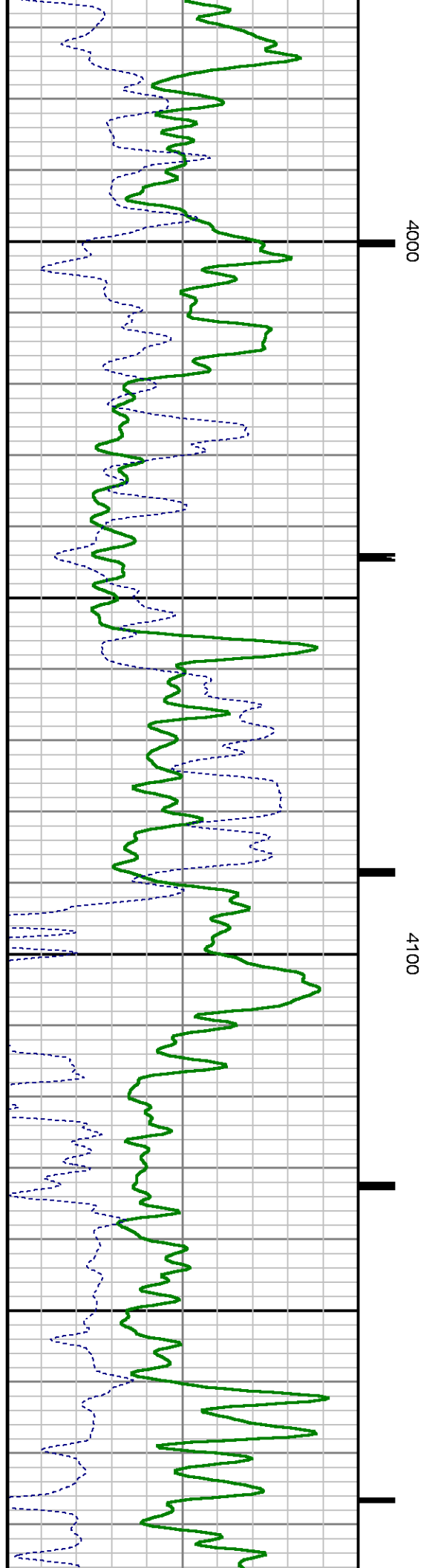
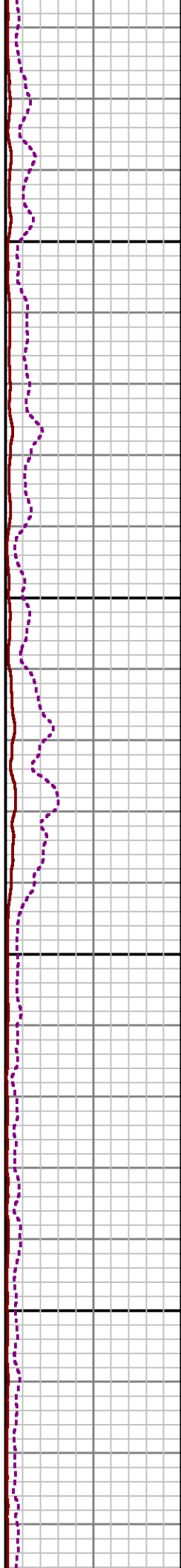
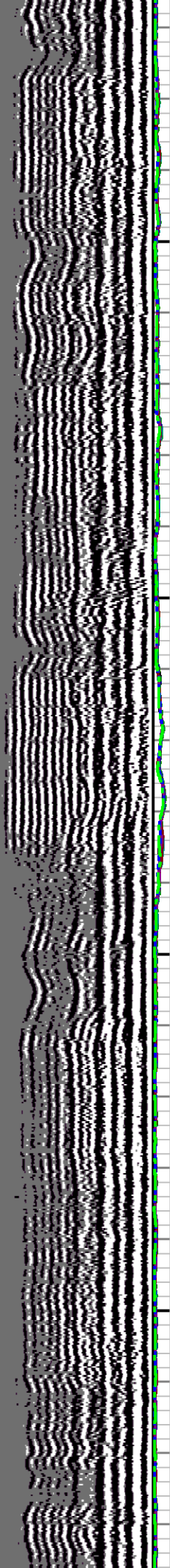


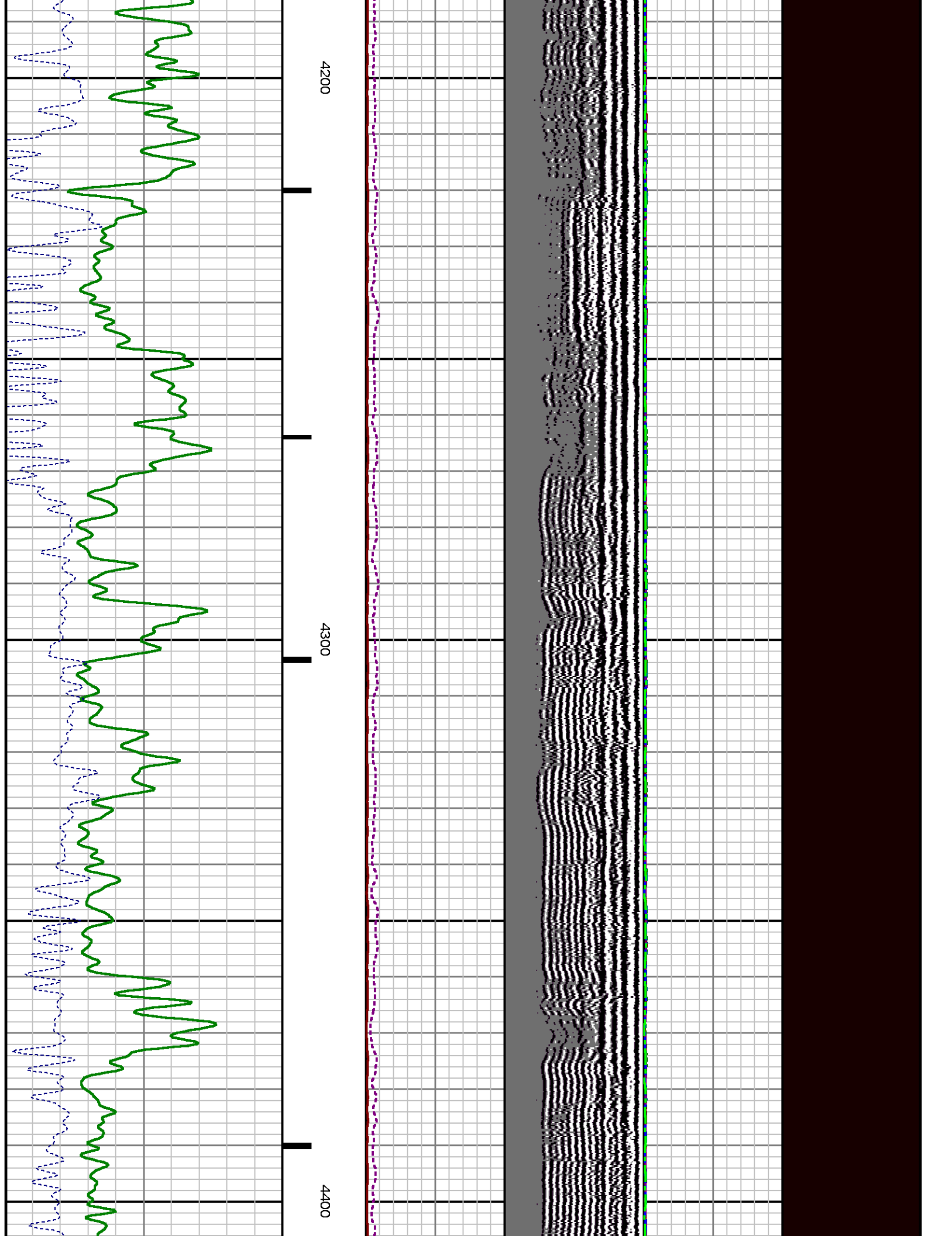


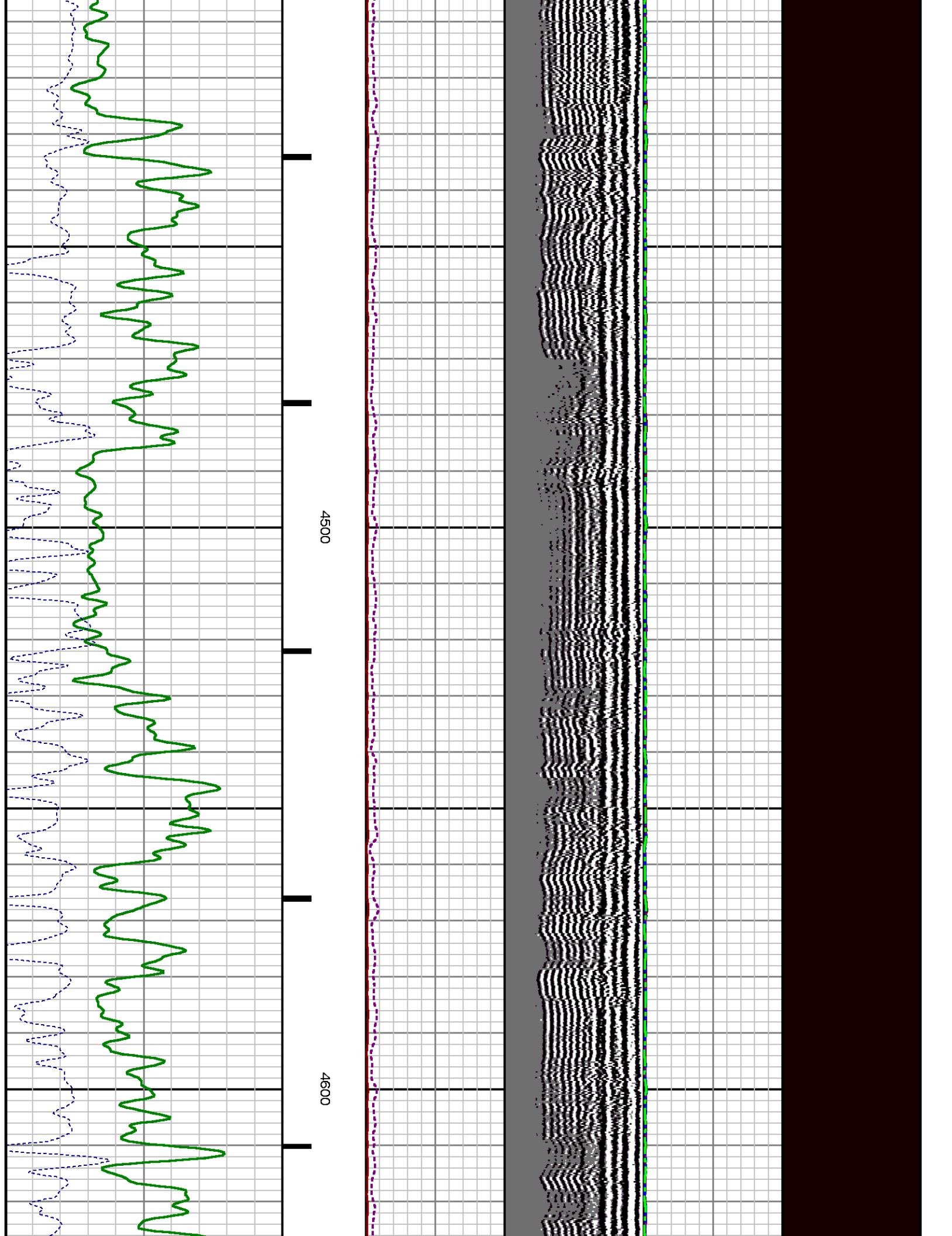


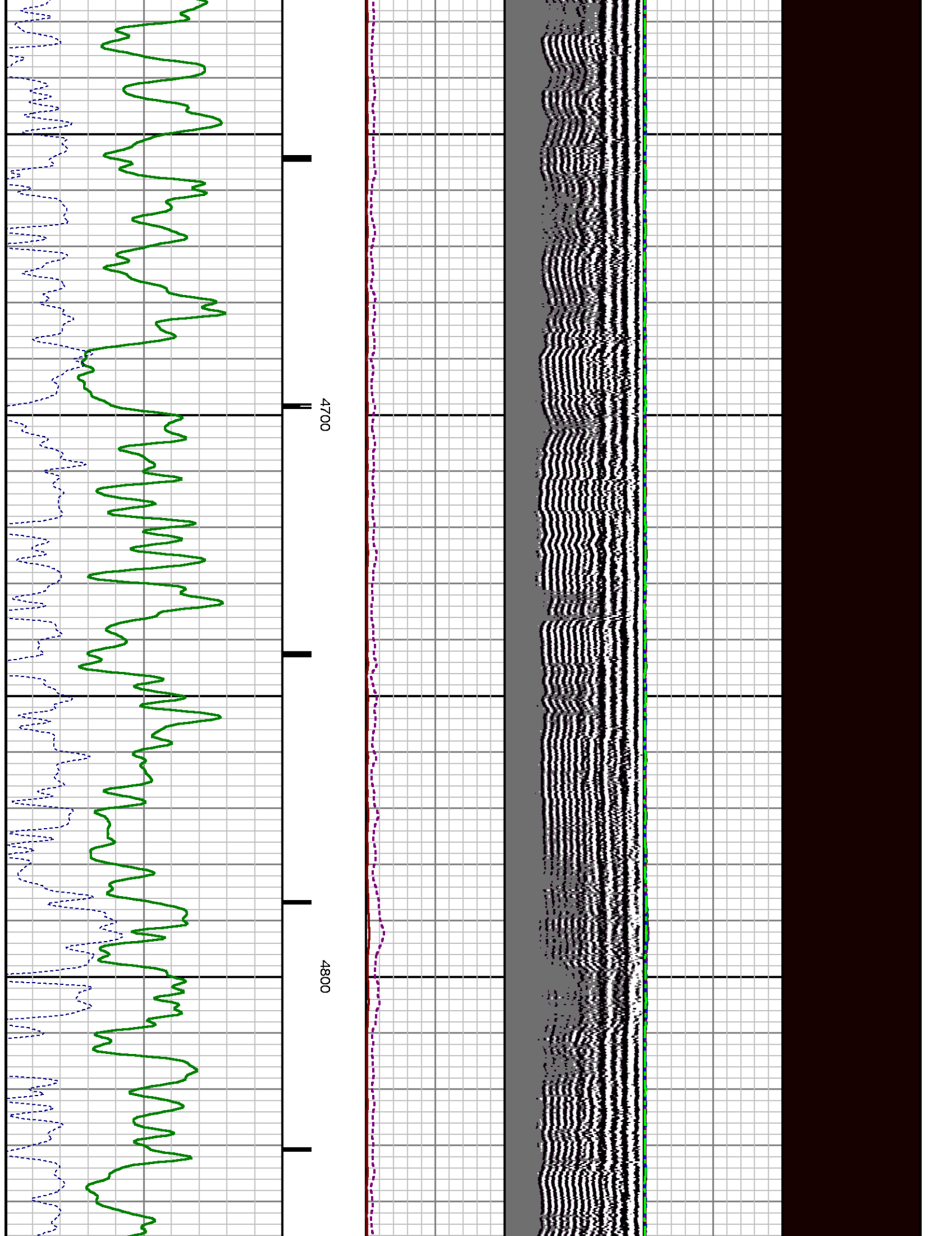


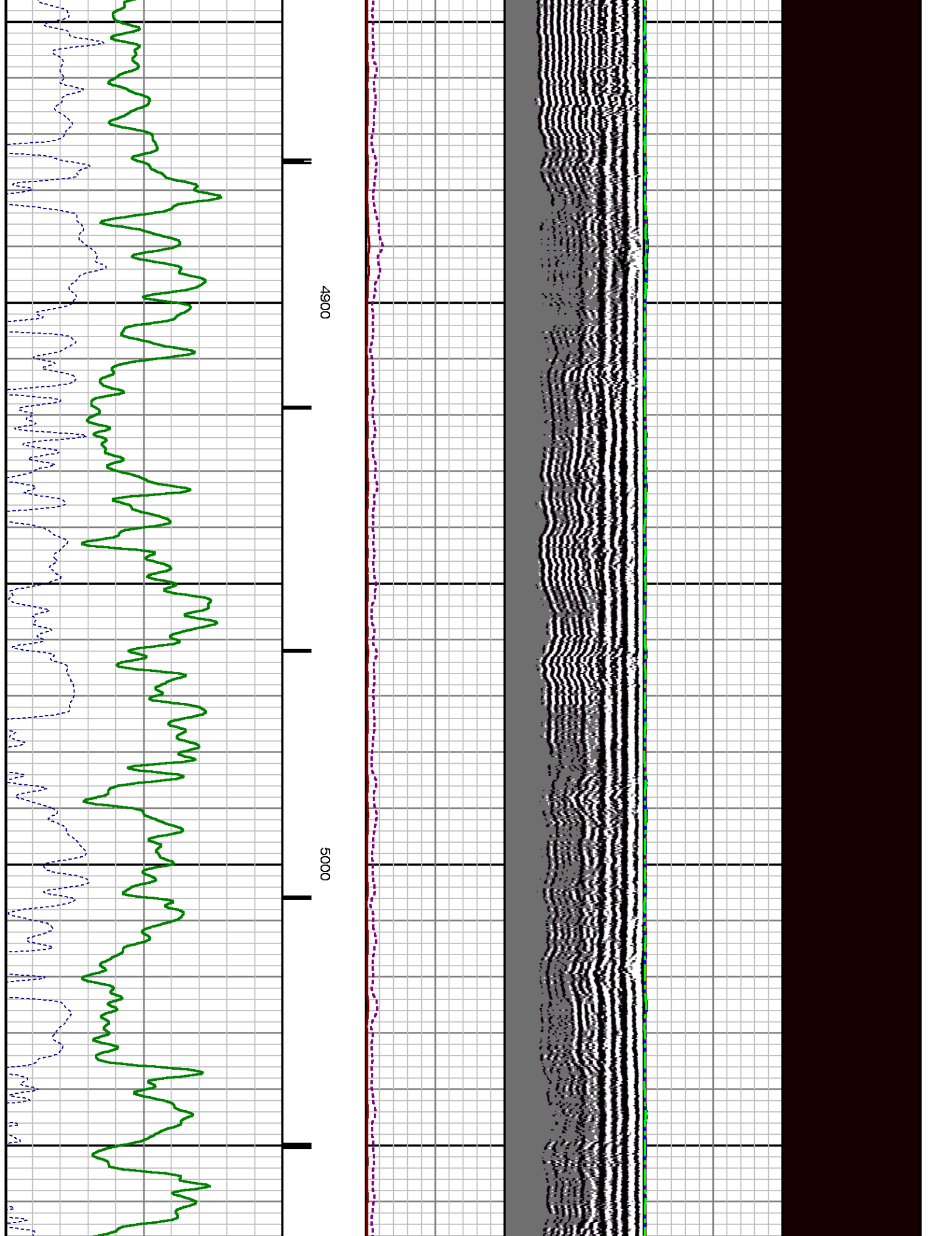


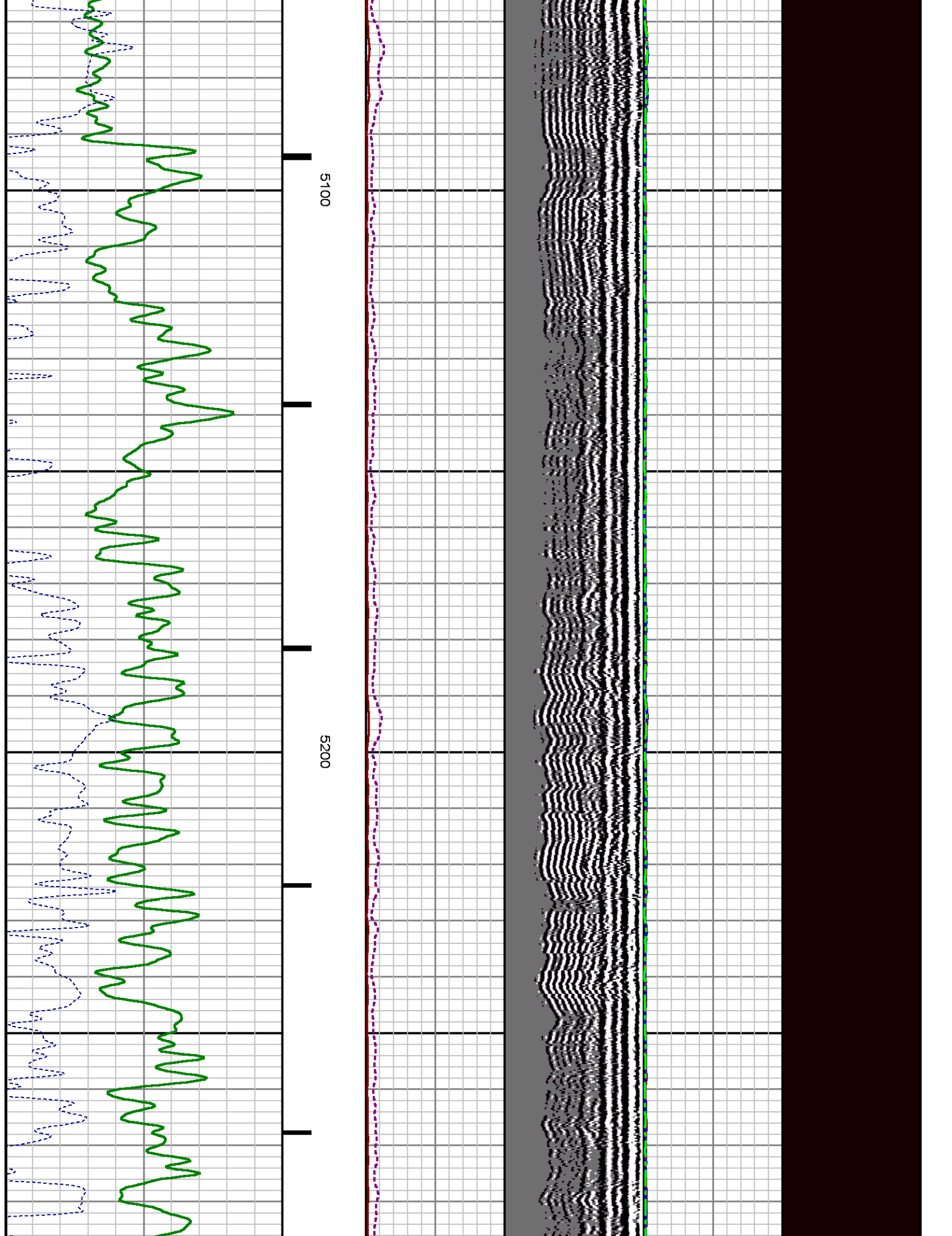


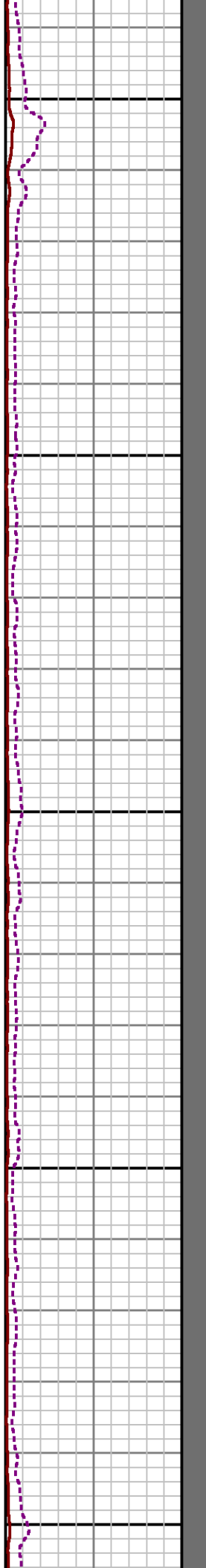
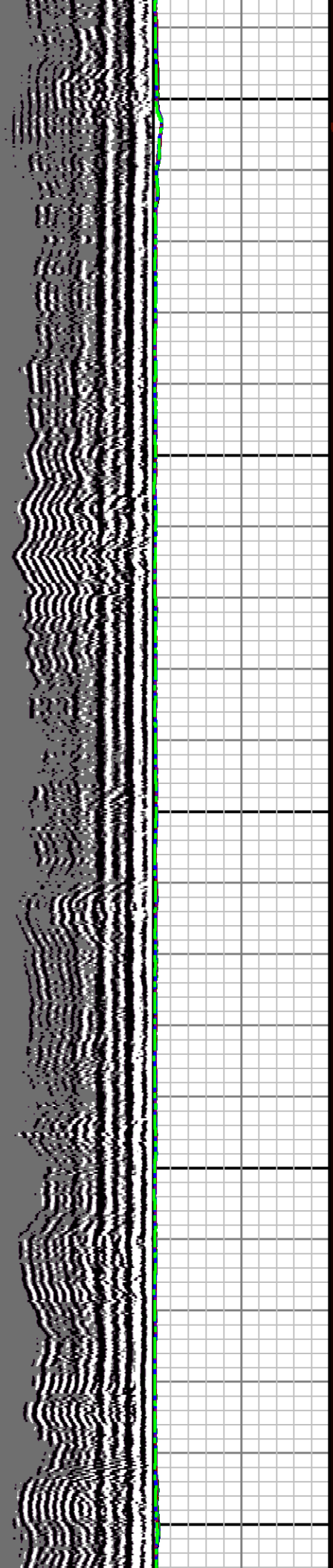








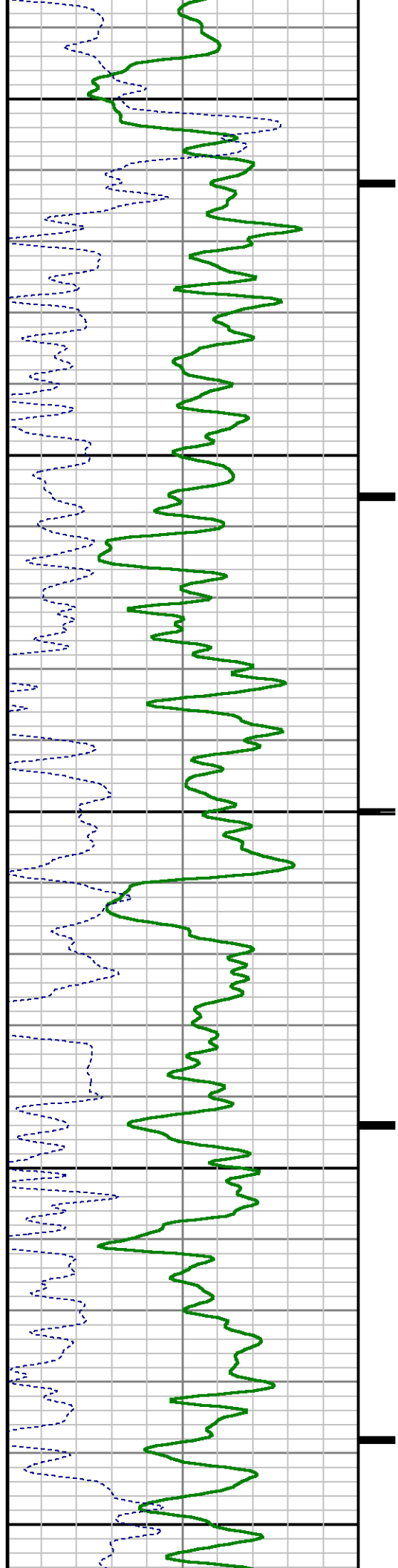


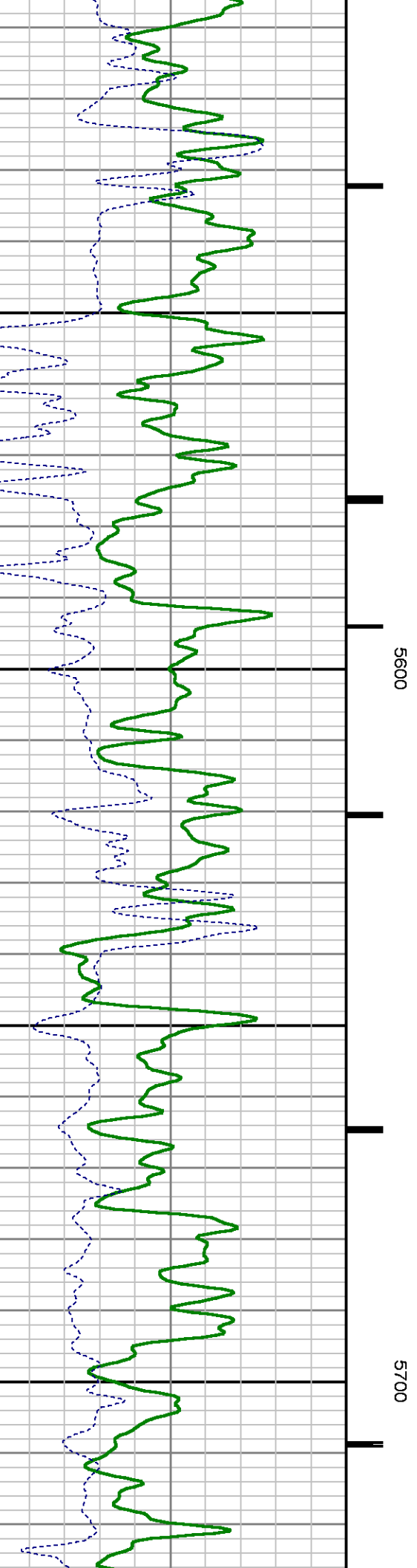
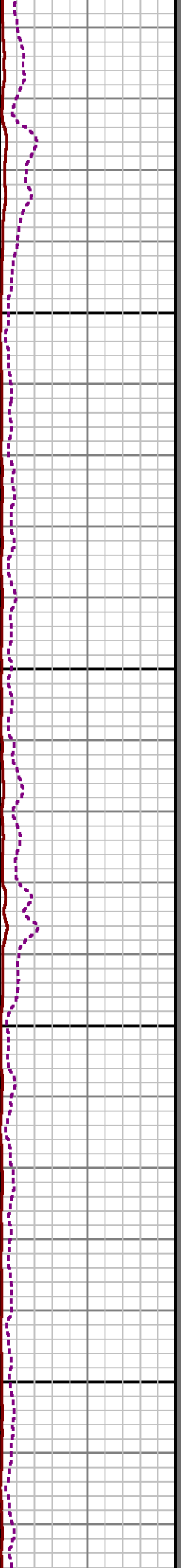
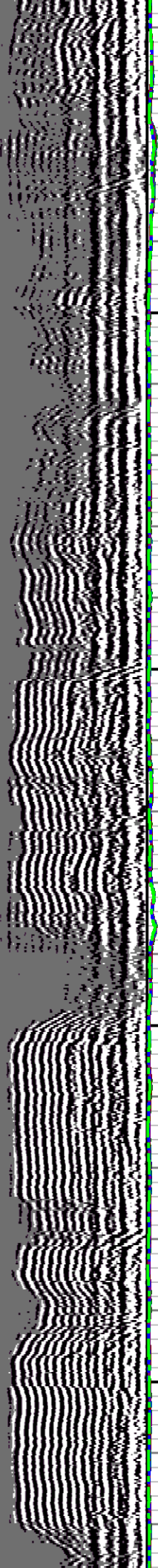


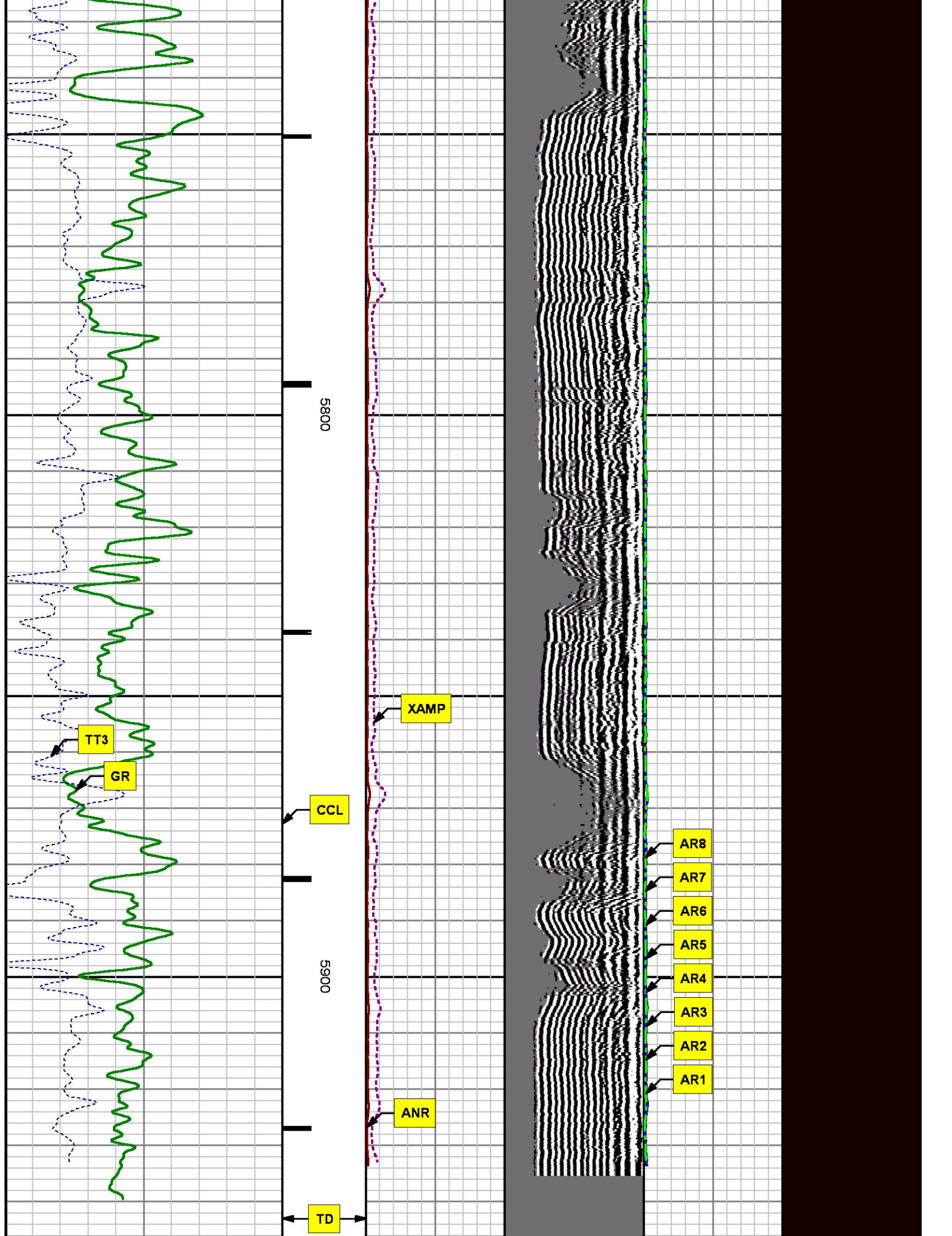
5300

5400

5500







5800

5900

TT3

GR

CCL

XAMP

ANR

TD

AR8

AR7

AR6

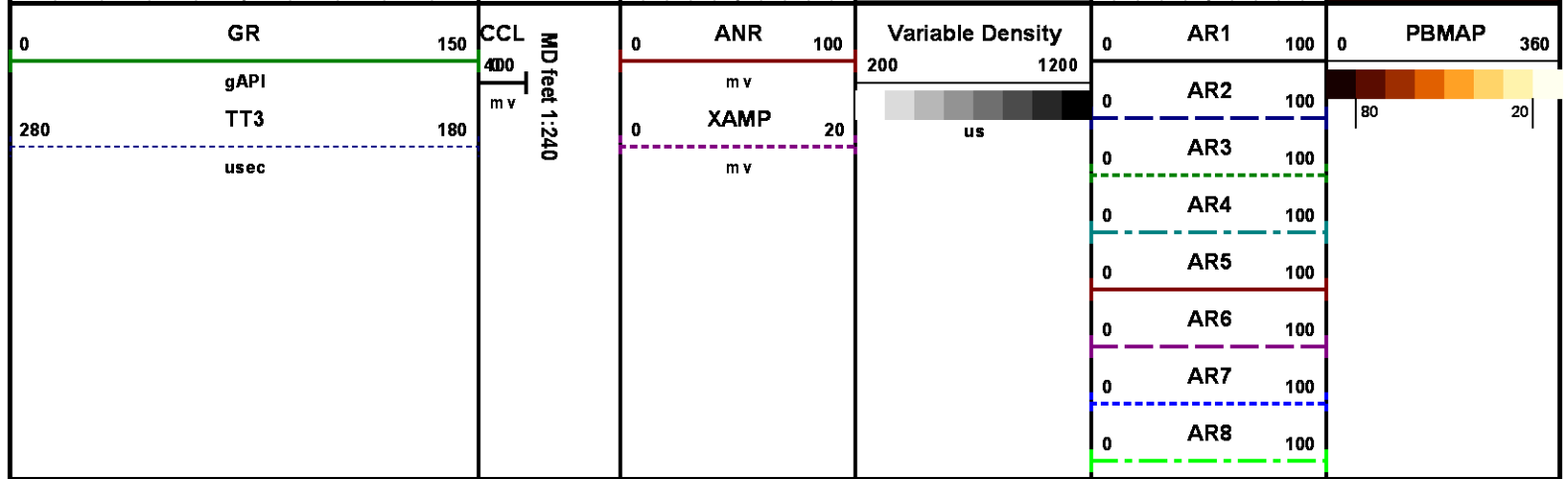
AR5

AR4

AR3

AR2

AR1



REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	5604.760	5941.010
RAL	Amp Gate Start Near	195.000	usec	5604.760	5941.010
RAL	Amp Gate Start Radial	195.000	usec	5604.760	5941.010
RAL	Amp Gate Width Far	25.000	usec	5604.760	5941.010
RAL	Amp Gate Width Near	25.000	usec	5604.760	5941.010
RAL	Amp Gate Width Radial	25.000	usec	5604.760	5941.010
RAL	casing od	4.500	inches	5604.760	5941.010
RAL	casing wt	11.600	lbm/ft	5604.760	5941.010
RAL	FB Start Far	291.900	usec	5604.760	5941.010
RAL	FB Start Near	180.000	usec	5604.760	5941.010
RAL	FB Start Radial	180.000	usec	5604.760	5941.010
RAL	FB Thresh Far	10.000	mv	5604.760	5941.010
RAL	FB Thresh Near	4.000	mv	5604.760	5941.010
RAL	FB Thresh Radial	4.000	mv	5604.760	5941.010
RAL	Fluid Travel Time	200.000	usec/ft	5604.760	5940.991

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
2459XA	-7.250	CCL					
2459XA	-5.390	GR					
2459XA	0.000	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

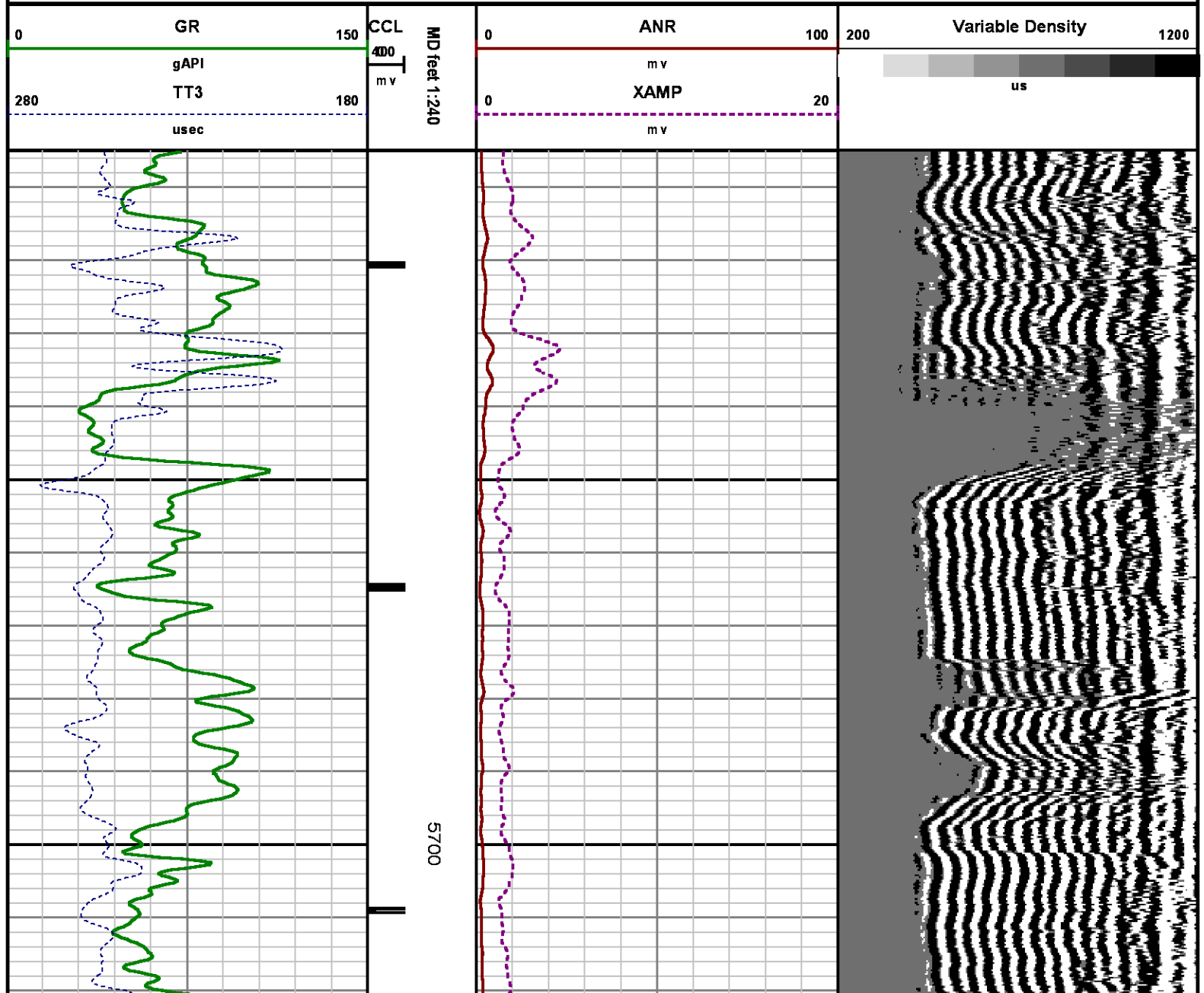
Well : C&C ENERGY GM 11-13

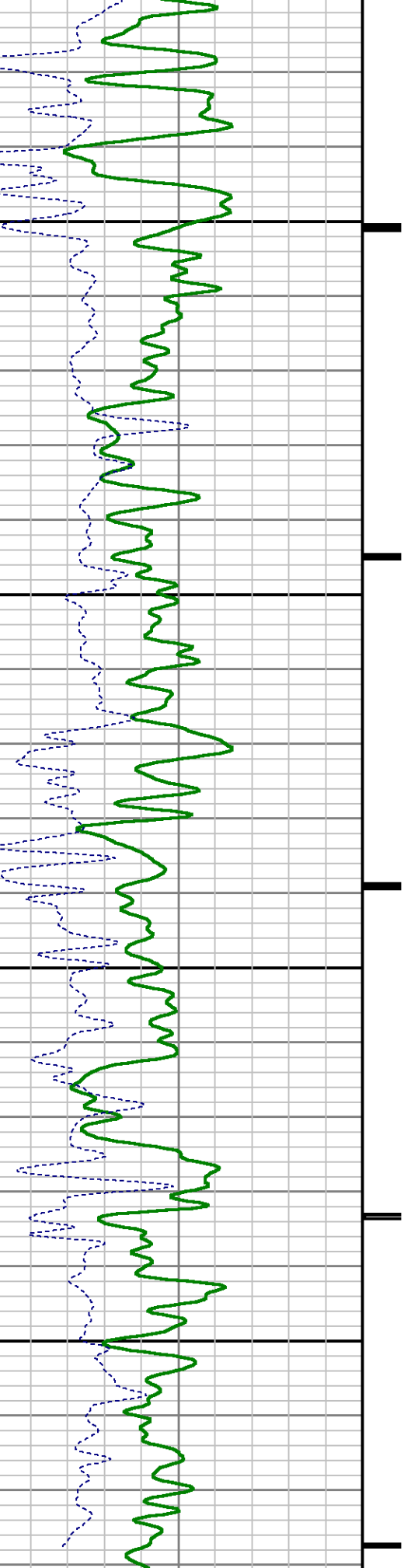
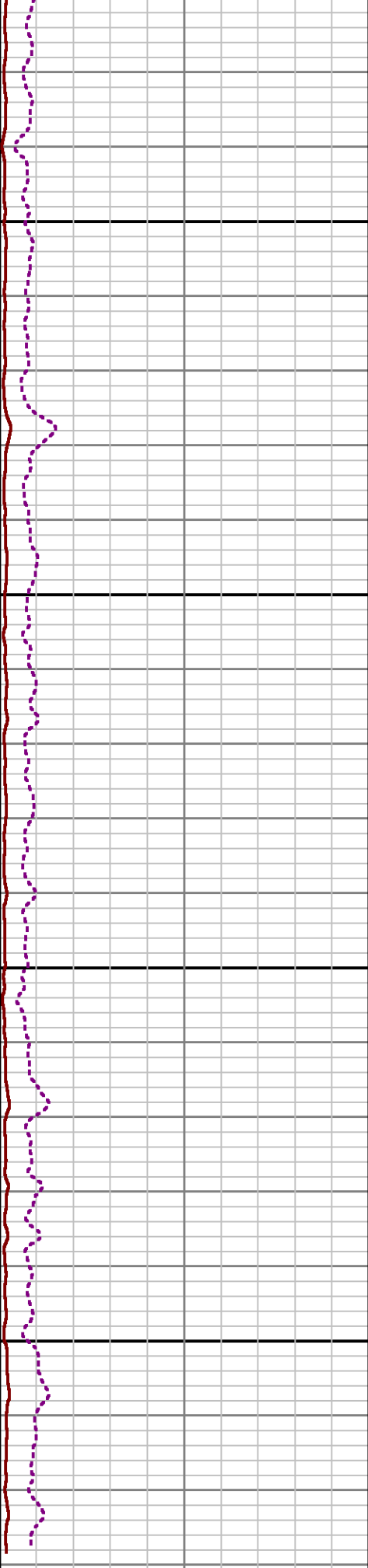
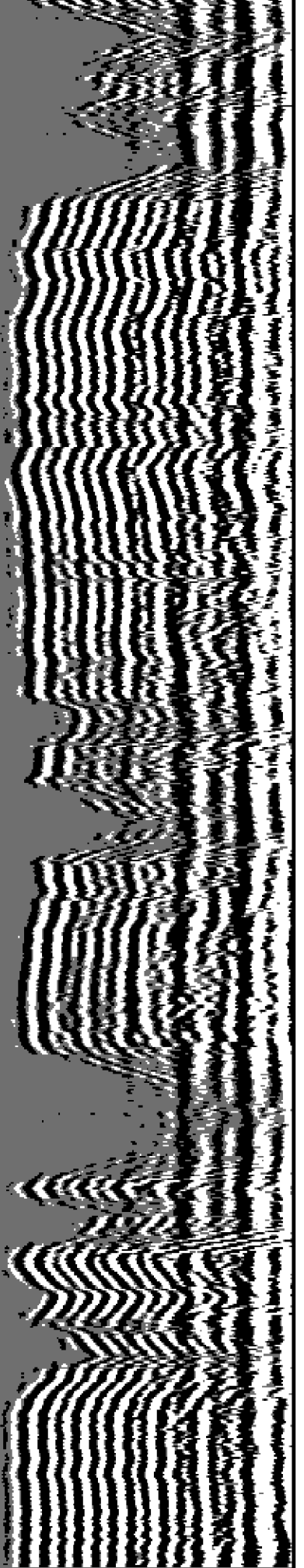
File Name : d:\wellldata\wpx\gm 11-13\11cbl\repeat.xtf

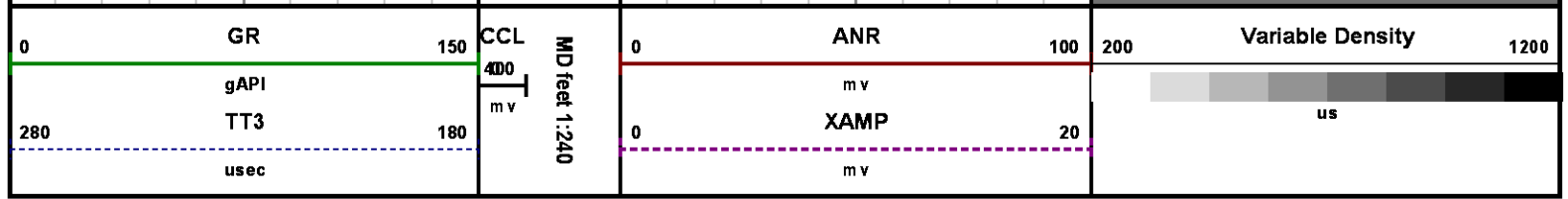
Mode : PlotMgr 5.4.504

Interval : 5605.01 - 5941.01 feet UP

Created : 7/24/2014 8:40:36 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106JY20_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:08:31 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

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

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	<input type="text" value="219"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.186"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
3 Ft. Receiver	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.187"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
5 Ft. Receiver	<input type="text" value="326"/>	<input type="text" value="325"/>	<input type="text" value="30"/>	<input type="text" value="220"/>	<input type="text" value="25"/>	<input type="text" value="0.672"/>	<input type="text" value="150.00"/>	<input type="text" value="0.38"/>
Radial #1	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.766"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #2	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.231"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #3	<input type="text" value="216"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.712"/>	<input type="text" value="100.00"/>	<input type="text" value="0.35"/>
Radial #4	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.439"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #5	<input type="text" value="217"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.496"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #6	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.209"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #7	<input type="text" value="218"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.585"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>
Radial #8	<input type="text" value="219"/>	<input type="text" value="216"/>	<input type="text" value="30"/>	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="-0.232"/>	<input type="text" value="100.00"/>	<input type="text" value="0.36"/>

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106JY20 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 20 13:10:33 2014 TOOL SERIES: 1426XA ASSET: 106 SEQ: JY20

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

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.209	0.000	0.99	100.000
3 Ft. Receiver	195	25	-2.824			
5 Ft. Receiver	305	25	-3.963			
Radial #1	195	25	-3.823			
Radial #2	195	25	-3.745			
Radial #3	195	25	-3.428			
Radial #4	195	25	-3.564			
Radial #5	195	25	-3.192			
Radial #6	195	25	-3.354			
Radial #7	195	25	-2.256			
Radial #8	195	25	-2.650			

GAMMA RAY

Calibration File: C:\case\calver\GR\121J2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 21 14:45:39 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	71.78	314.67	0.762	54.67	239.67	185.00

Verification File: C:\case\calver\GR\121J2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jan 21 14:46:51 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	74.22	316.93	0.762	56.53	241.40	184.86

TOOL DIAGRAM

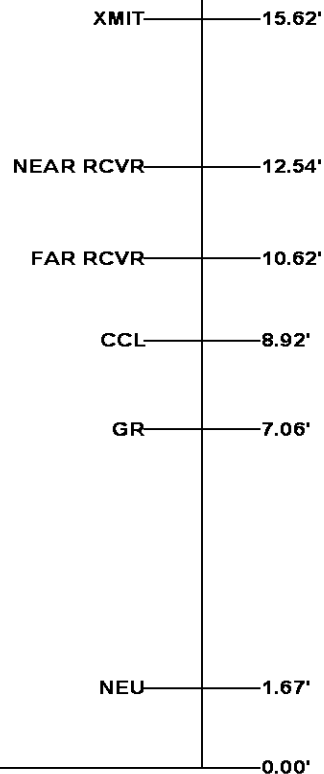
OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII



21.81'

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"



Baker Atlas



Company	WPX ENERGY		
Well	C&C ENERGY GM 11-13		
Field	GRAND VALLEY		
County	GARFIELD	State	COLORADO

File No:	CH088604
API No:	05045222710000

Location	Elevations	
SHL: 297' FSL & 976' FWL (SEC 12)	KB 5165 ft	
BHT: 287' FNL & 727' FWL (NWNW SEC 13)	DF	
	GL 5141 ft	
SEC 13	TWP 7S	RGE 96W

13 7S 96W
GM 24-12 PAD
H&P 318