



# RADIAL ANALYSIS BOND LOG

## Baker Atlas

File No:	CH086869	Company	WPX ENERGY
API No:	05045221450000	Well	WPX ENERGY PA 343-3
		Field	PARACHUTE
		County	GARFIELD
		State	COLORADO

3 7S 95W	Location	SHL: 2062' FSL & 1629' FWL (SEC 2)	Other Services
GV 86-2 PAD		BHL: 2175' FSL & 1043' FEL (SEC 3)	RPM
AZTEC 1000	SEC 3	TWP 7S	RGE 95W

Permanent Datum	GL	Elevation	5821 ft
Log Measured From	KB	25 ft	Above P. D.
Drill Measured From	KELLY BUSHING		Elevations
			KB 5846 ft
			DF
			GL 5821 ft

Date	08/JUN/14
Run	ONE
Service Order	US086869J
Depth Driller	8119 ft
Depth Logger	8083 ft
Bottom Logged Interval	8073 ft
Top Logged Interval	25 ft
Time Started	0730
Time Finished	1030
Operator Rig Time	3 HRS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	70 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	66 fpm
Maximum Recorded Temperature	217 degF
Reference Log	NONE
Reference Log Date	NA
Equipment No.	4271
Recorded By	FLORIO RENEAU
Witnessed By	DUSTIN WELSH

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
13.5 in	25 ft	1246 ft
8.75 in	1246 ft	8119 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			25 ft	1246 ft
4.5 in	11.6 lbm/ft	I-80	25 ft	8119 ft

**Remarks**

All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.

The amount of linear shift is 10 feet.

Logged with zero PSI at wellhead.

BHT = 217°F

SJ = 4877'-4898'

**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	35.875	8087.000
RAL	Amp Gate Start Near	195.000	usec	35.875	8087.000
RAL	Amp Gate Start Radial	195.000	usec	35.875	8087.000
RAL	Amp Gate Width Far	25.000	usec	35.875	8087.000
RAL	Amp Gate Width Near	25.000	usec	35.875	8087.000
RAL	Amp Gate Width Radial	25.000	usec	35.875	8087.000
RAL	casing od	4.500	inches	35.875	8087.000
RAL	casing wt	11.600	lbm/ft	35.875	8087.000
RAL	FB Start Far	291.900	usec	35.875	8087.000
RAL	FB Start Near	180.000	usec	35.875	8087.000
RAL	FB Start Radial	180.000	usec	35.875	8087.000
RAL	FB Thresh Far	10.000	mv	35.875	8087.000
RAL	FB Thresh Near	4.000	mv	35.875	8087.000
RAL	FB Thresh Radial	4.000	mv	35.875	8087.000
RAL	Fluid Travel Time	200.000	usec/ft	35.875	8086.937

**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

1426XA -15.750  
 2459XA -11.340  
 2459XA -9.490  
 2459XA -4.090

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

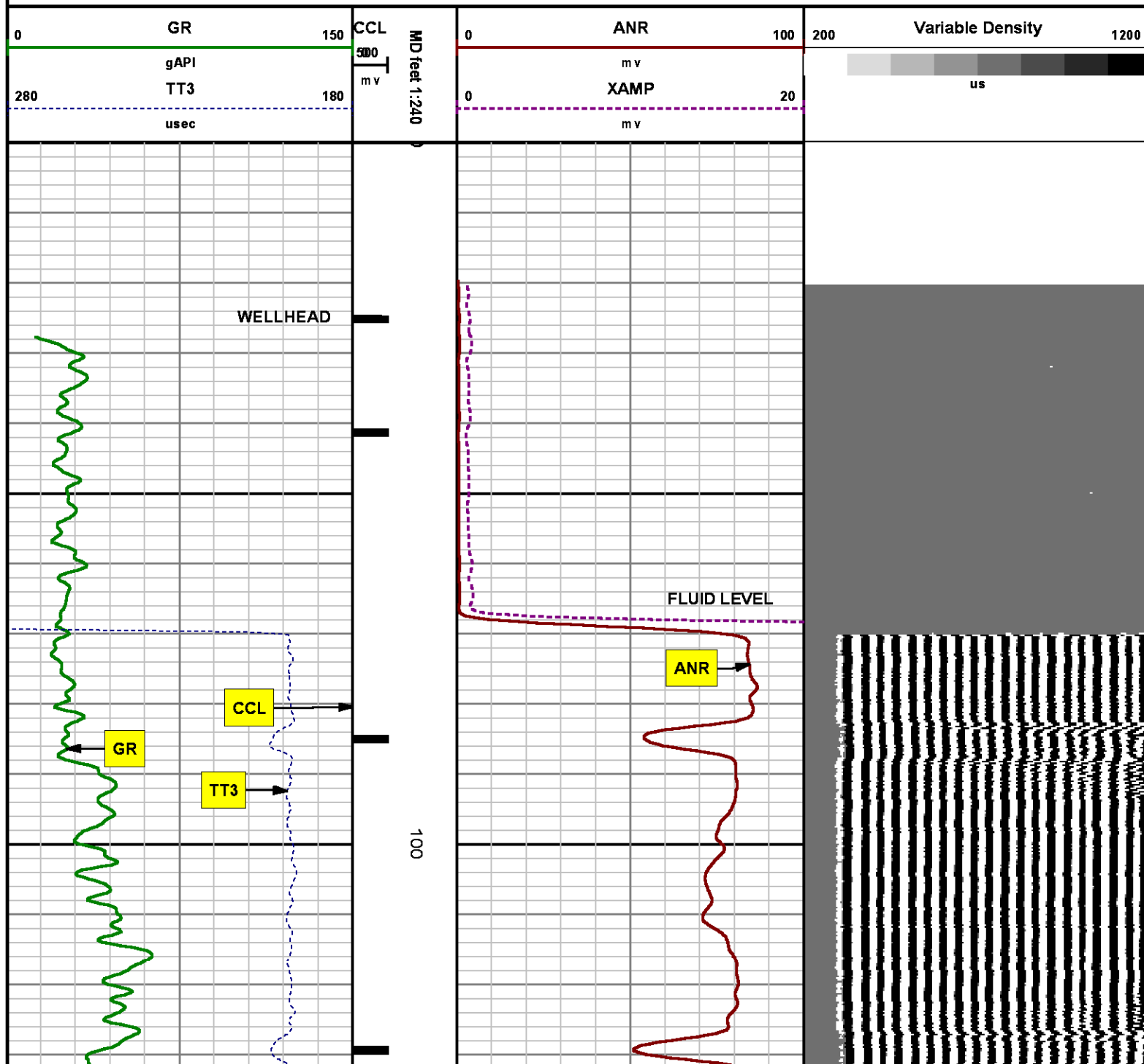
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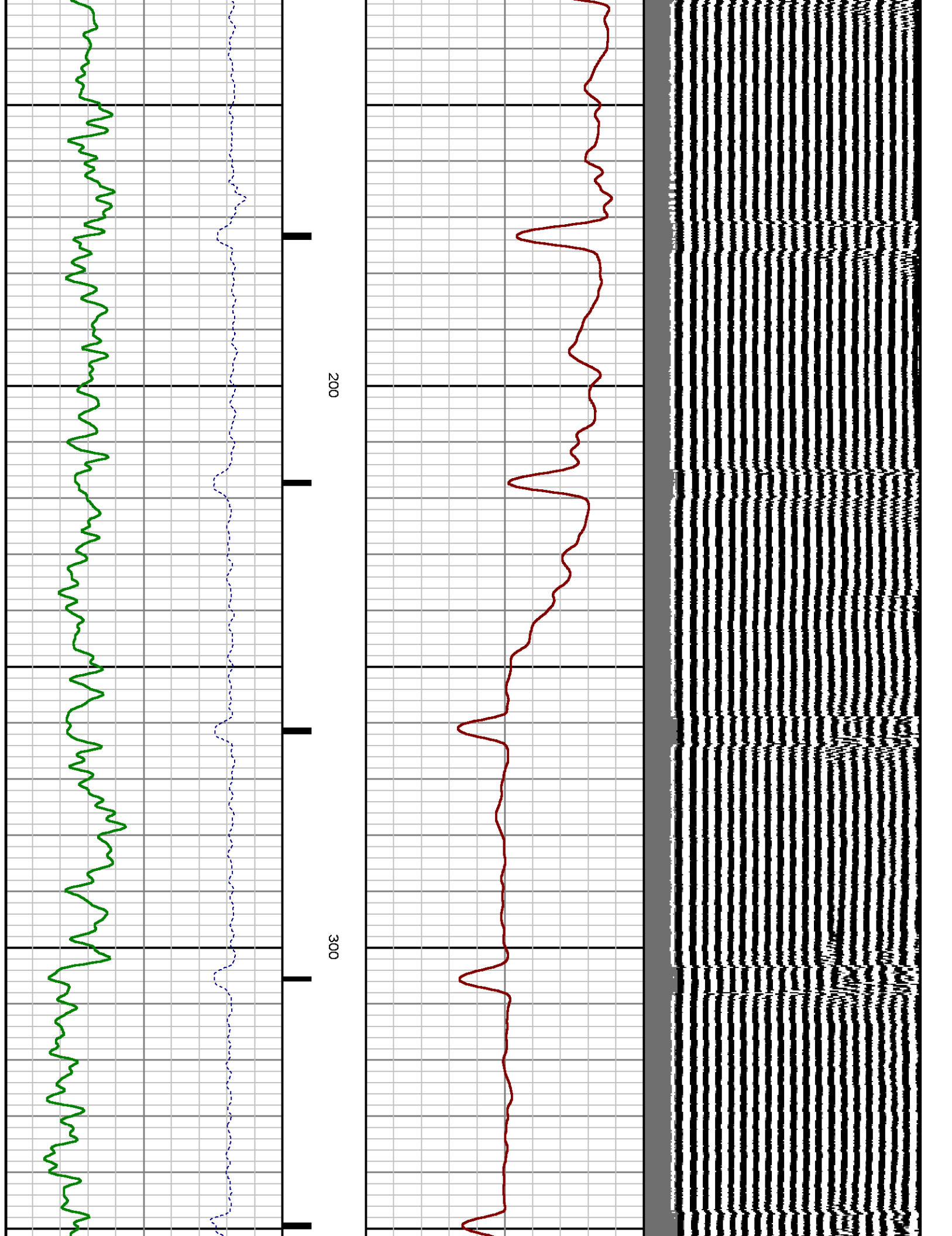
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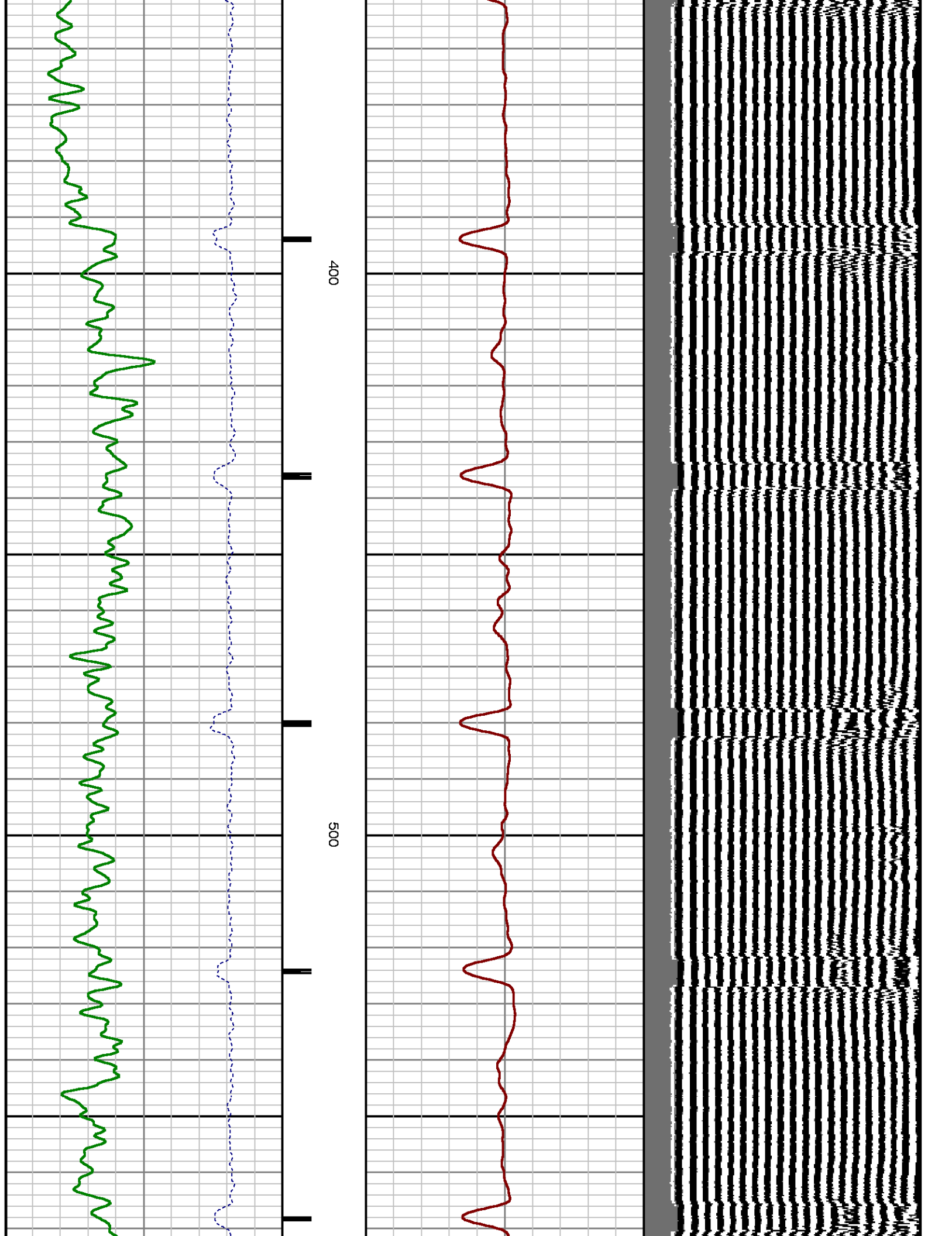
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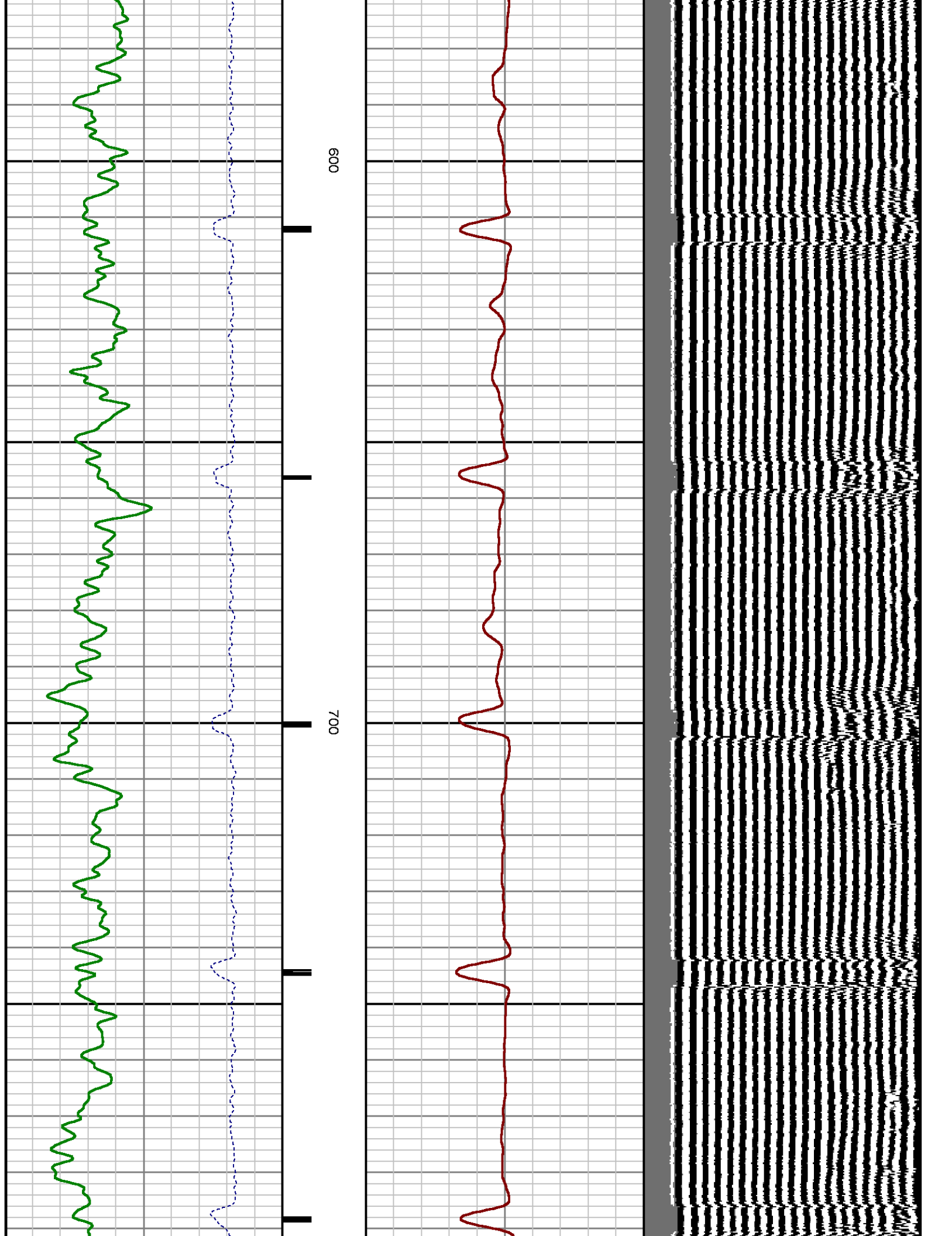
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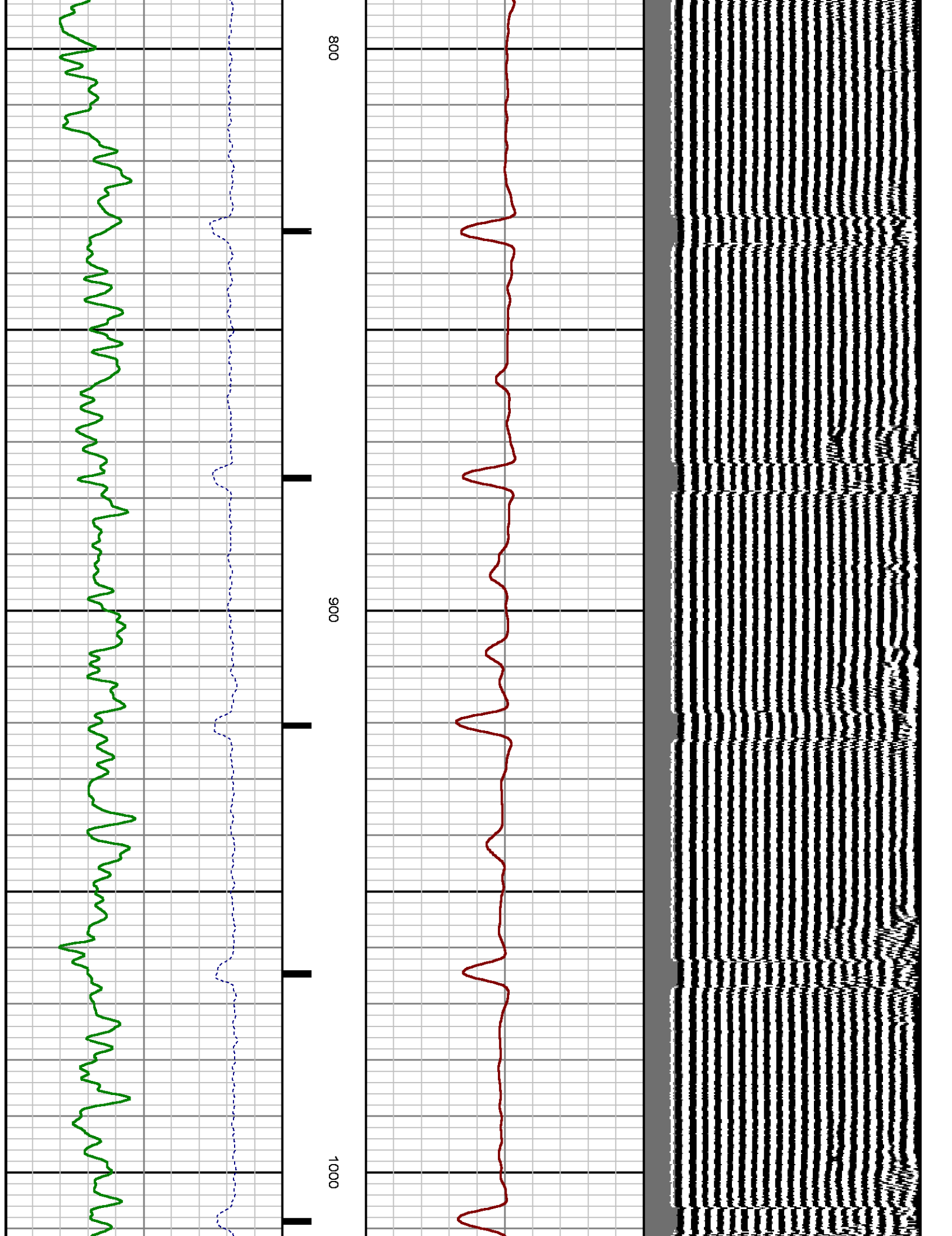
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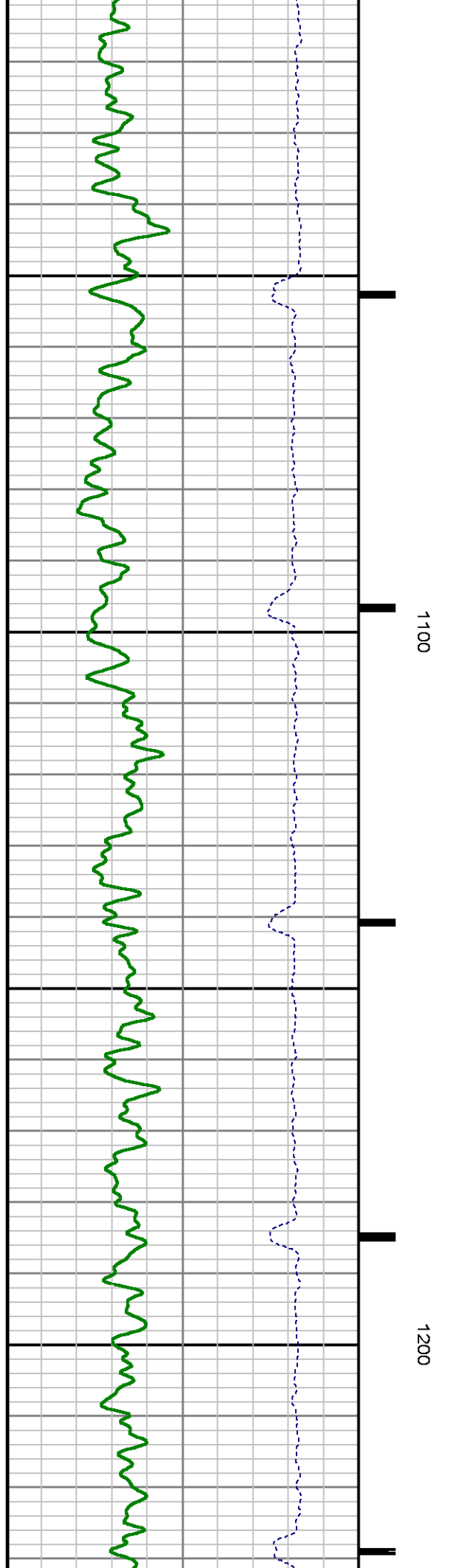
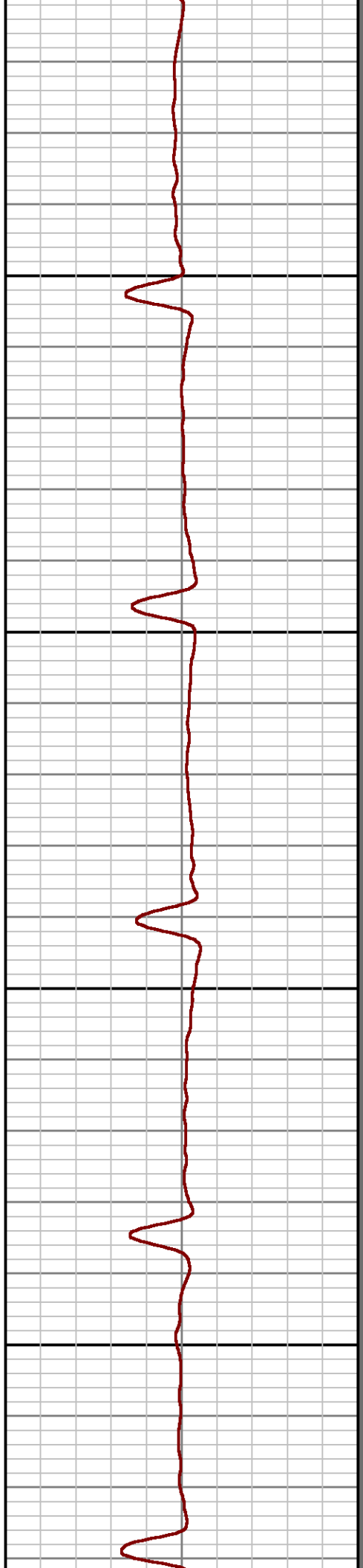
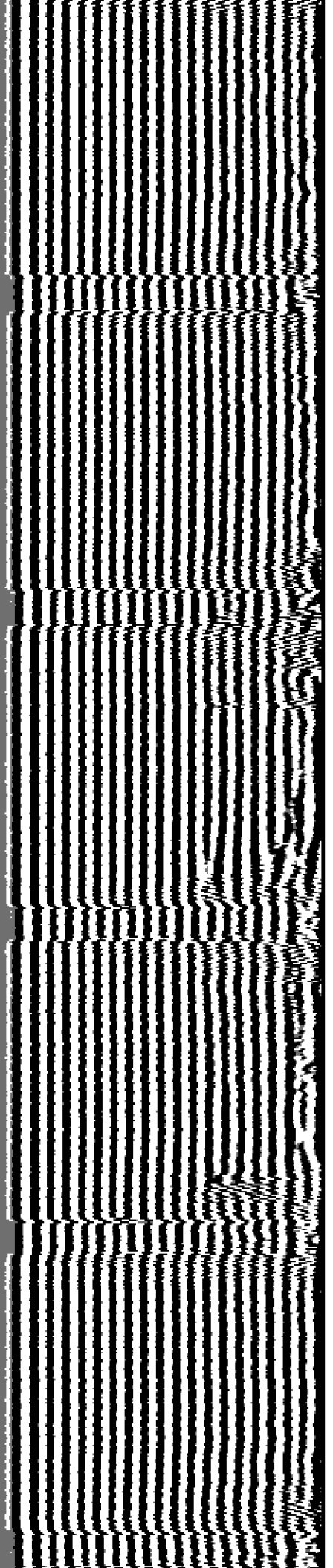


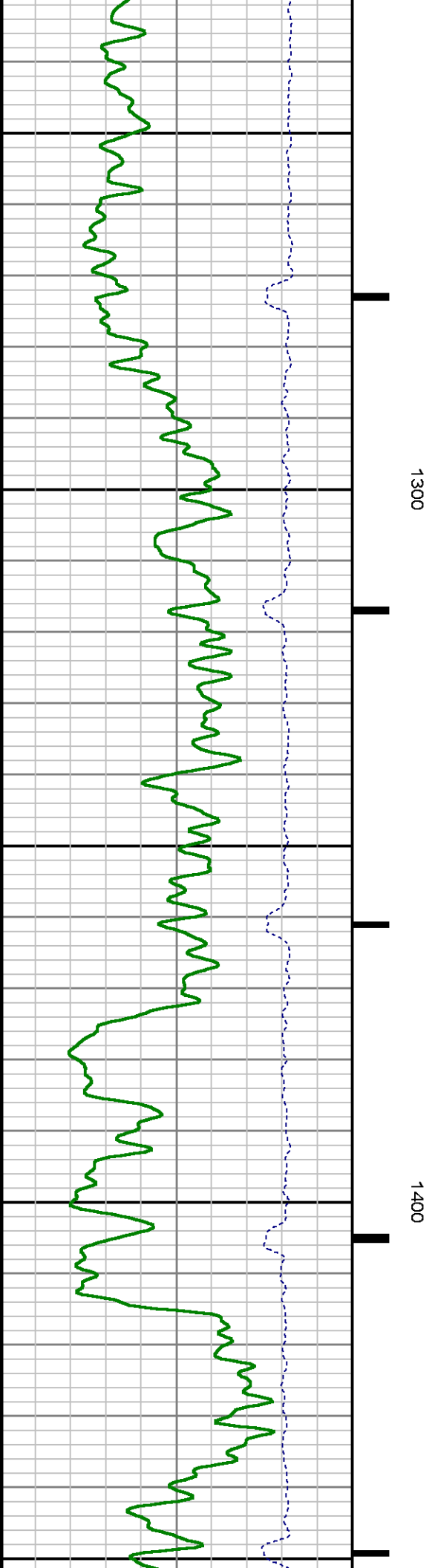
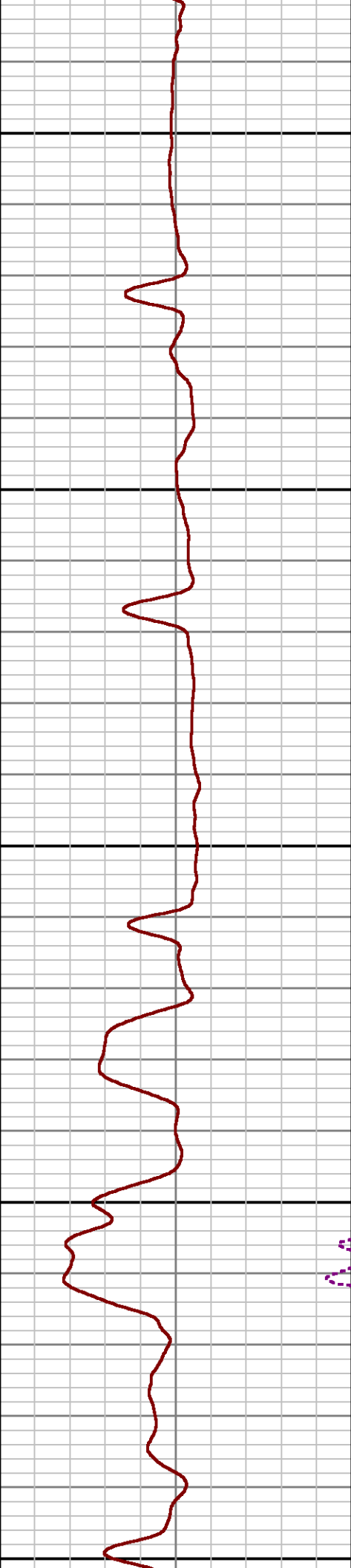
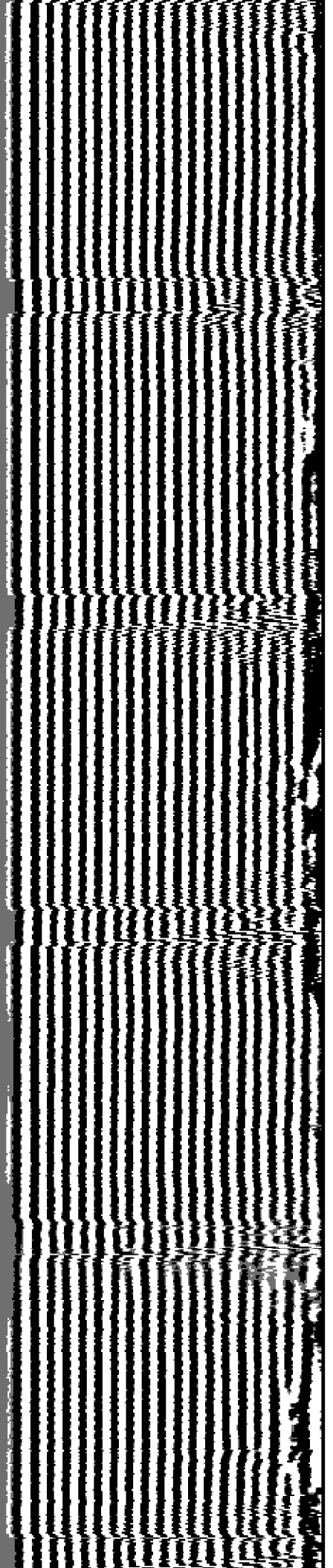


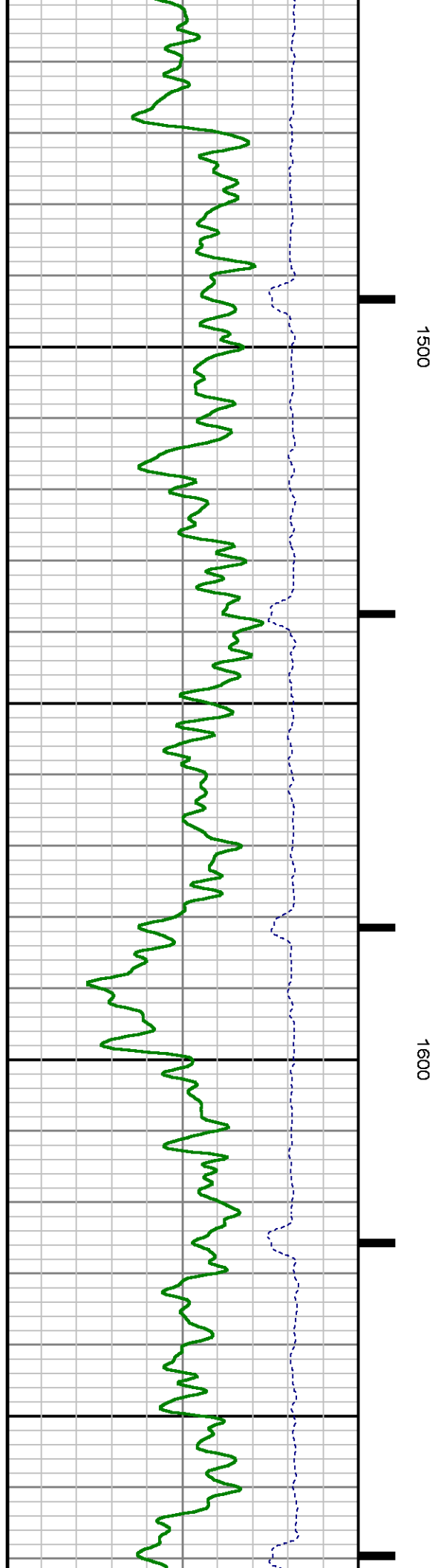
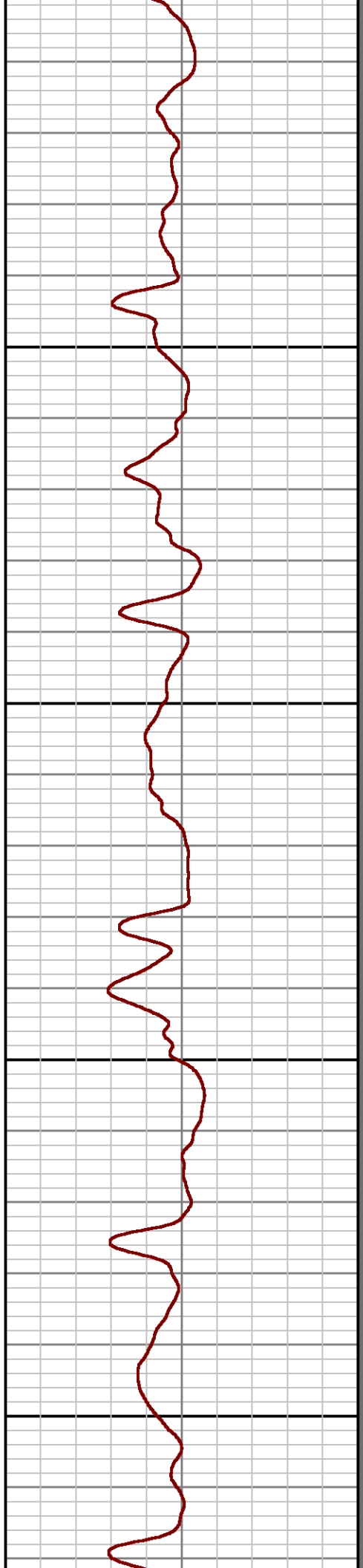
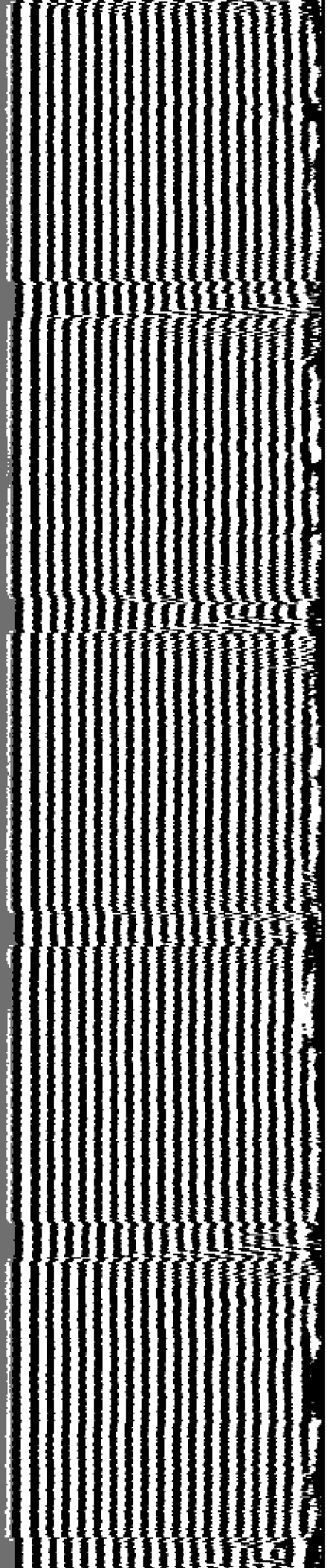


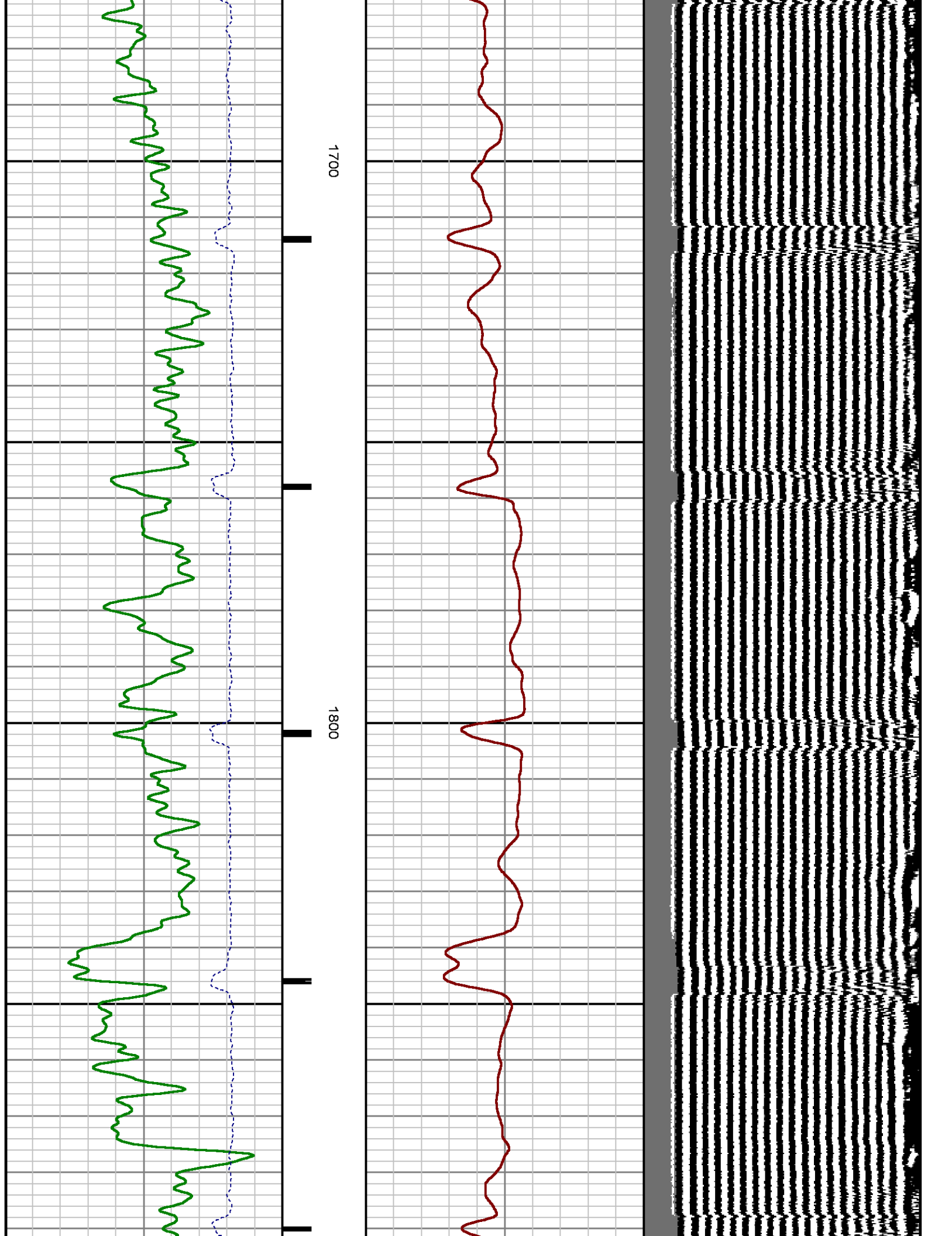


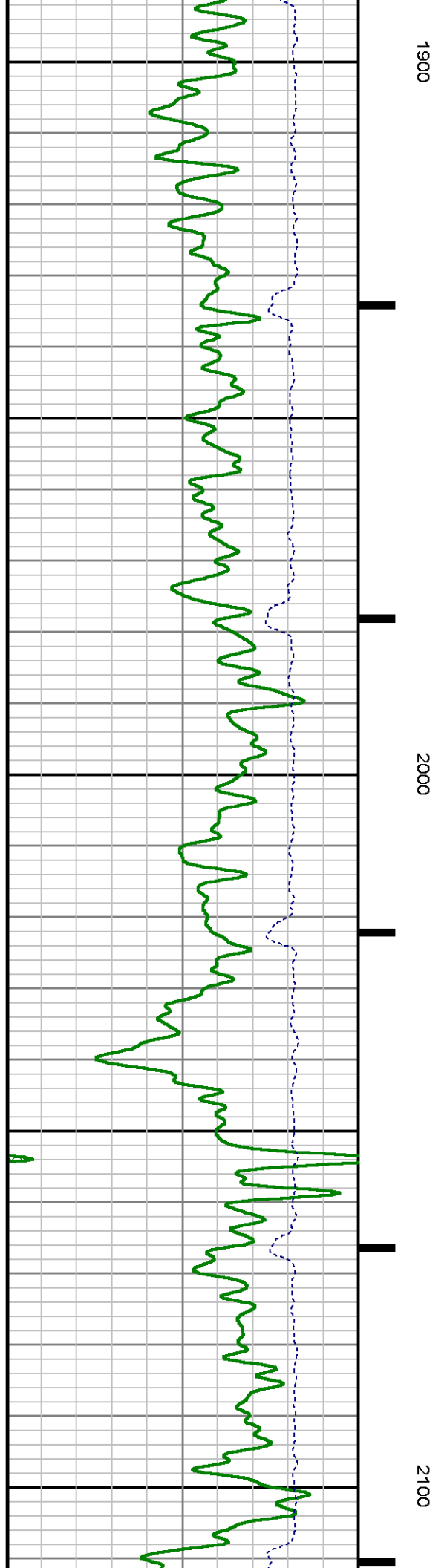
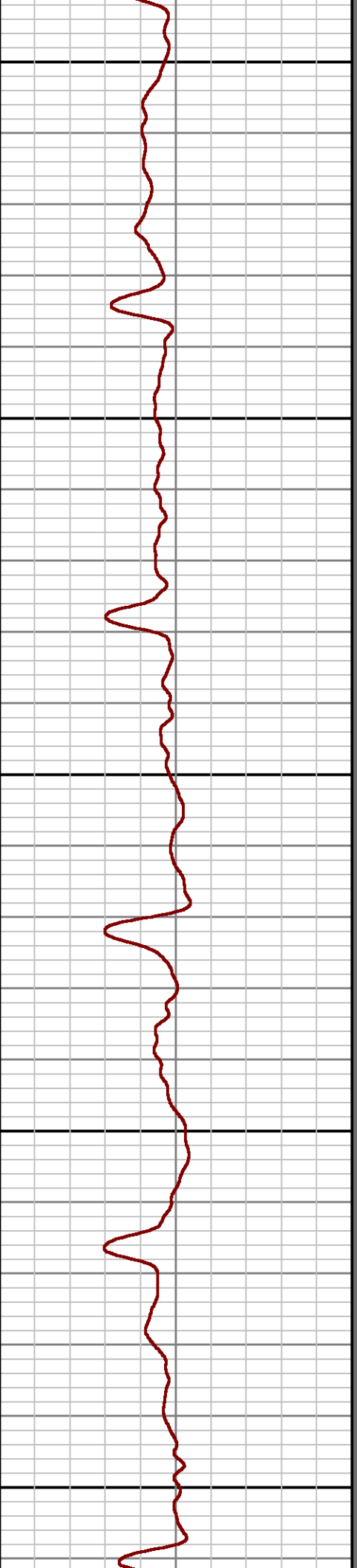
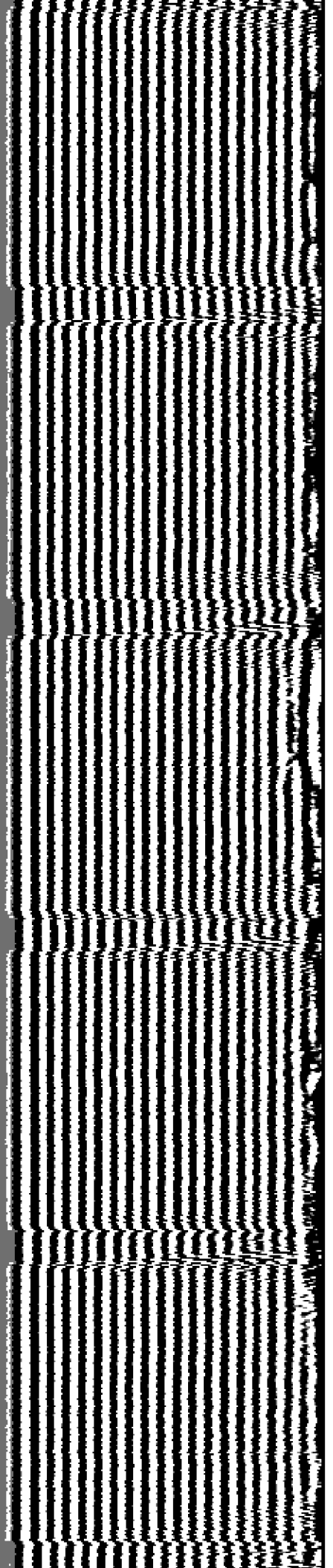


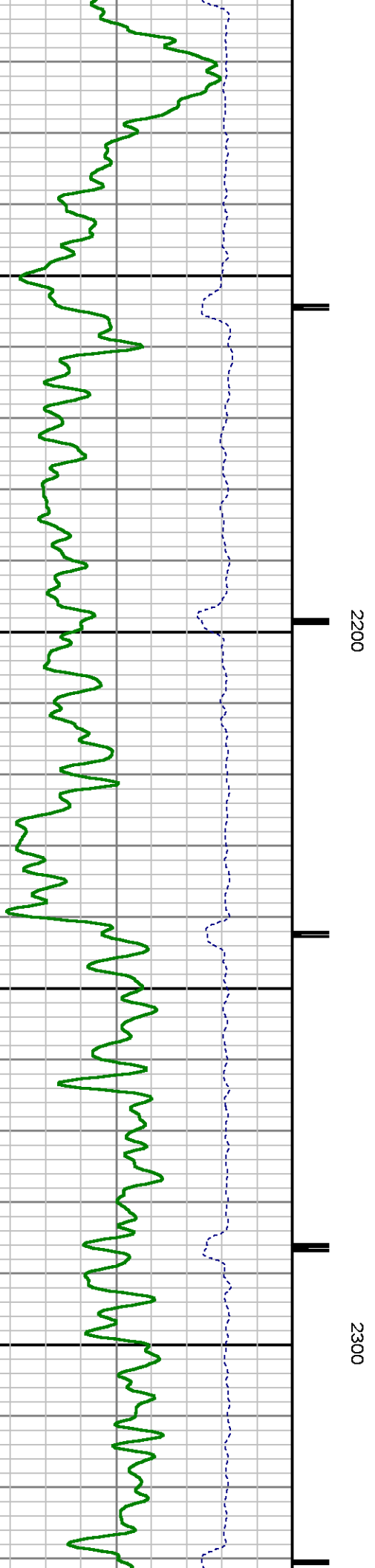
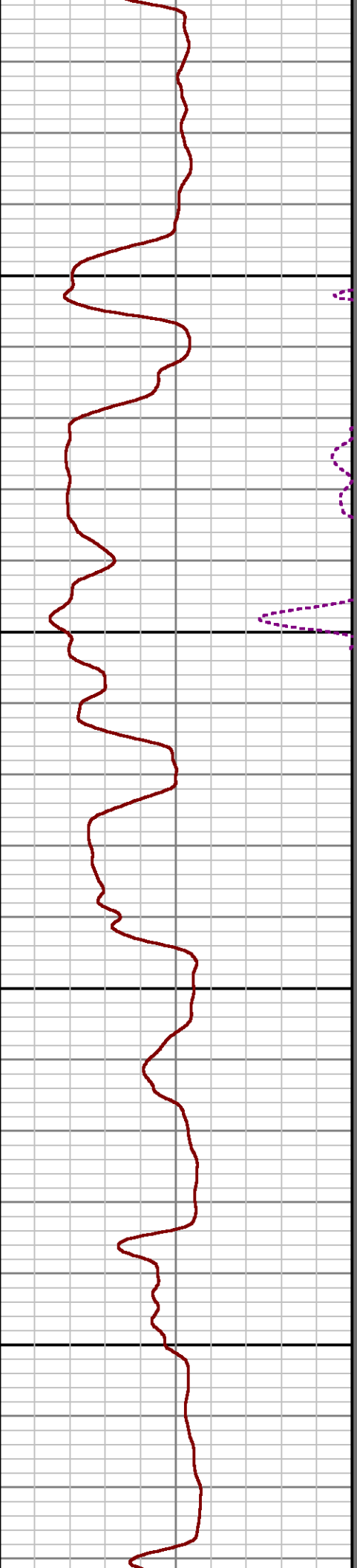
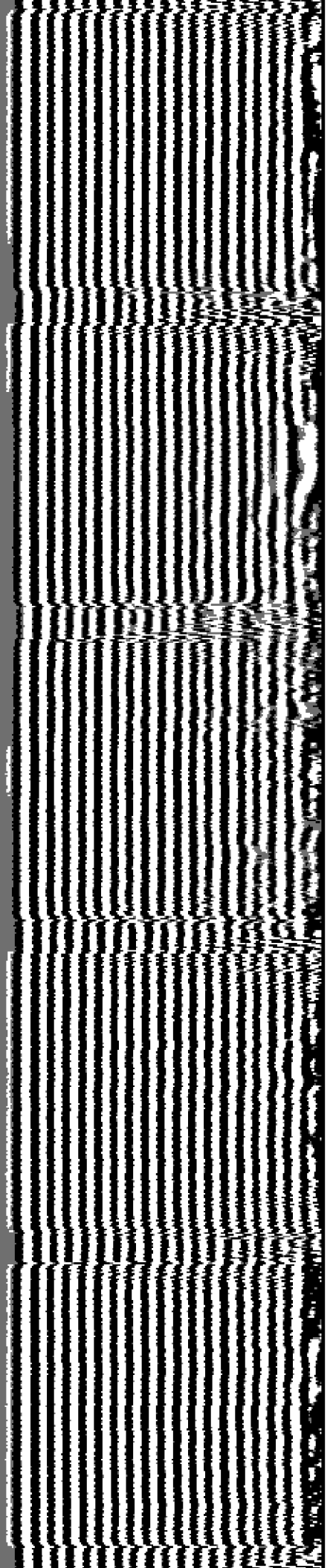


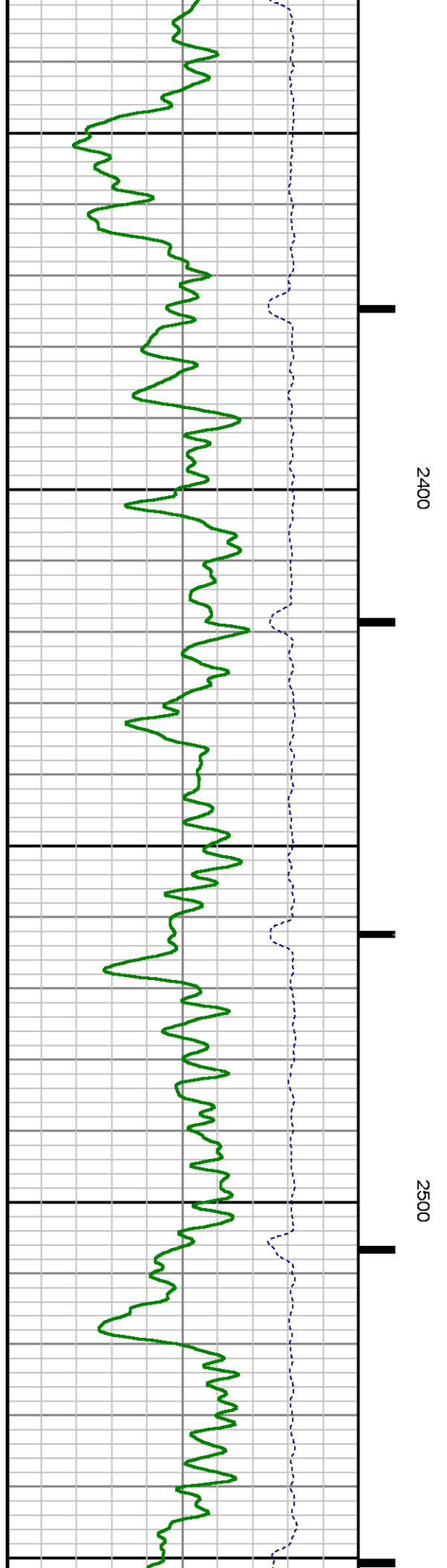
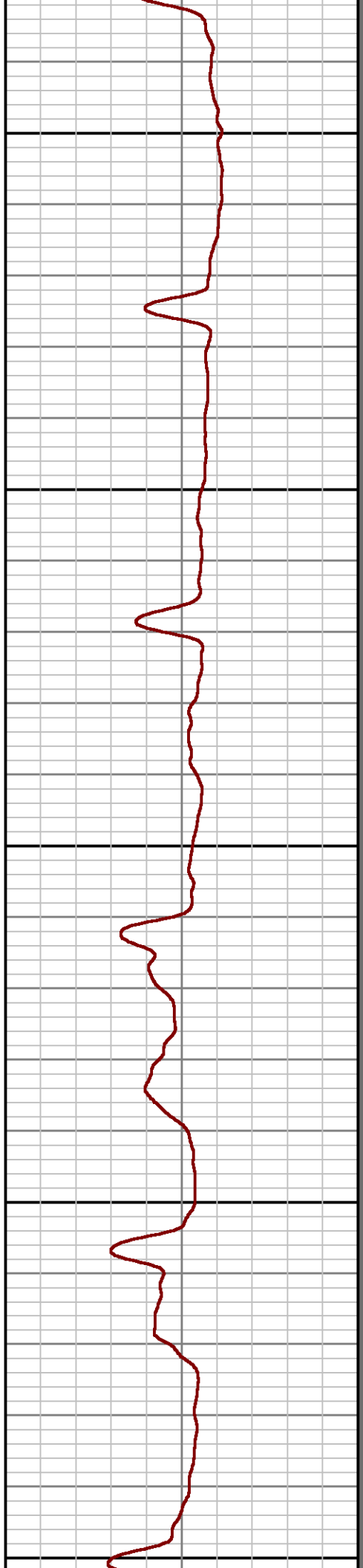
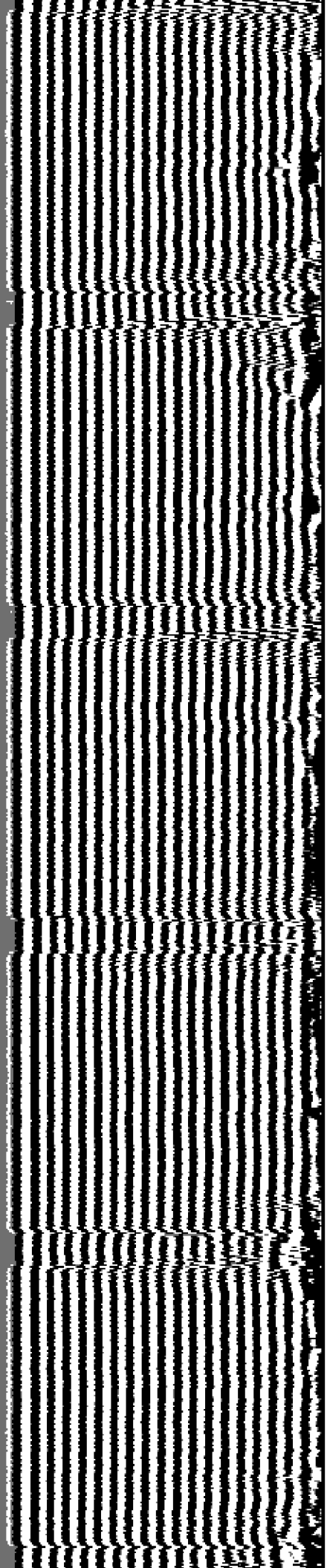


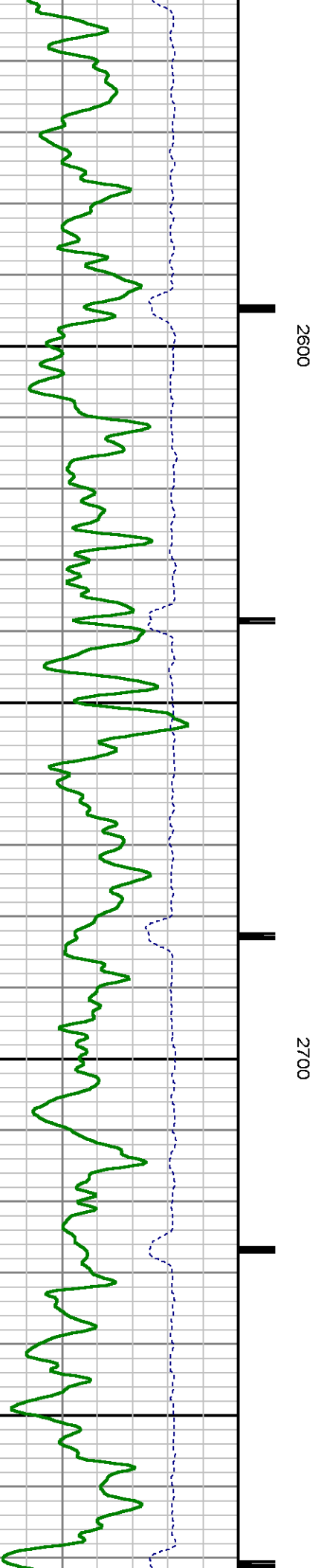
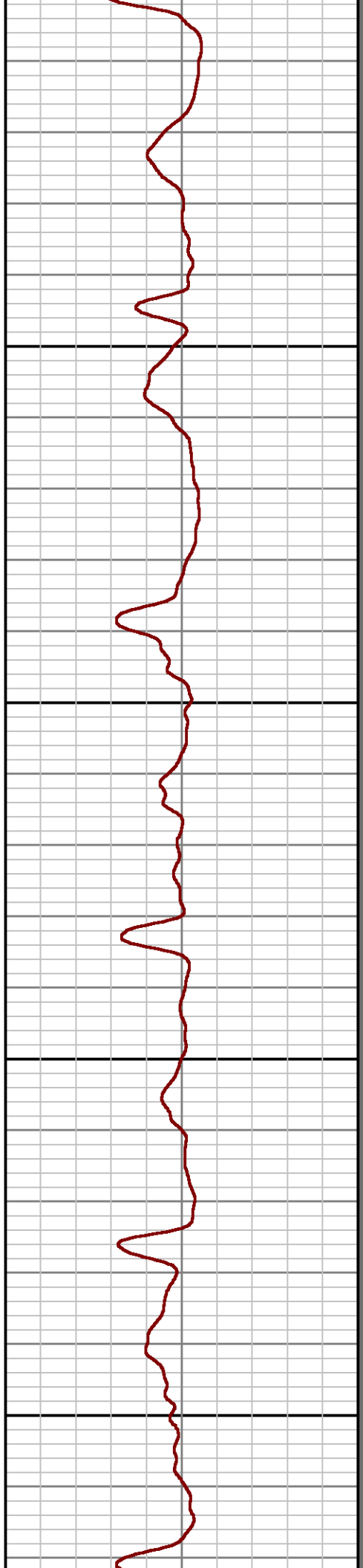
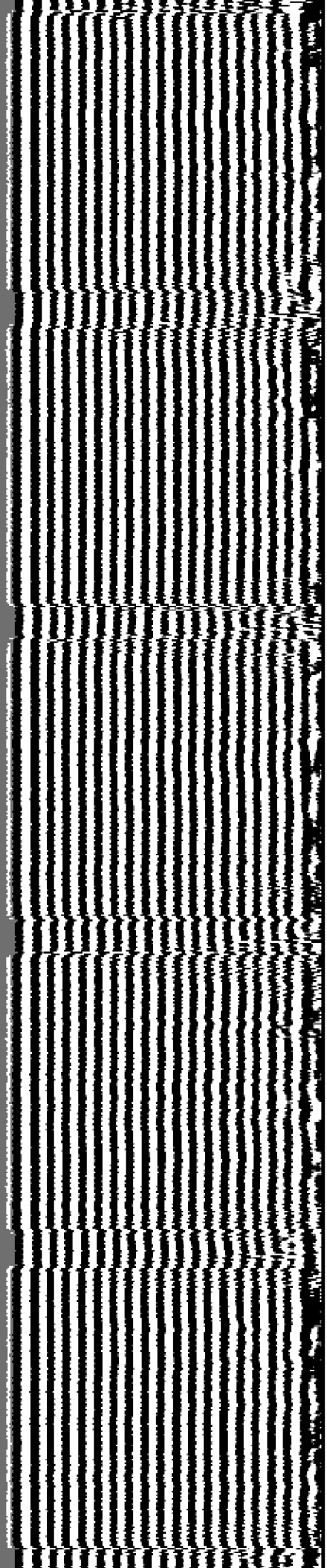


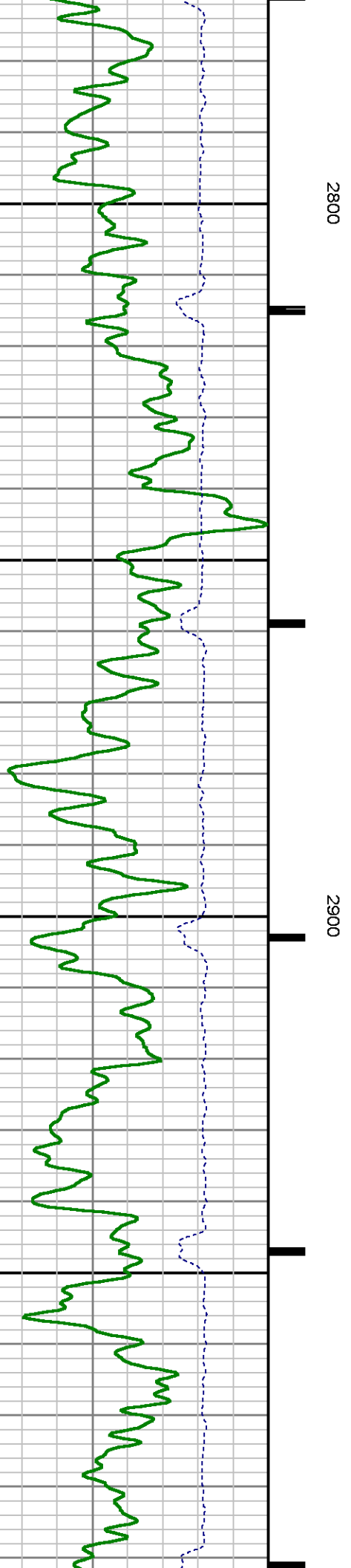
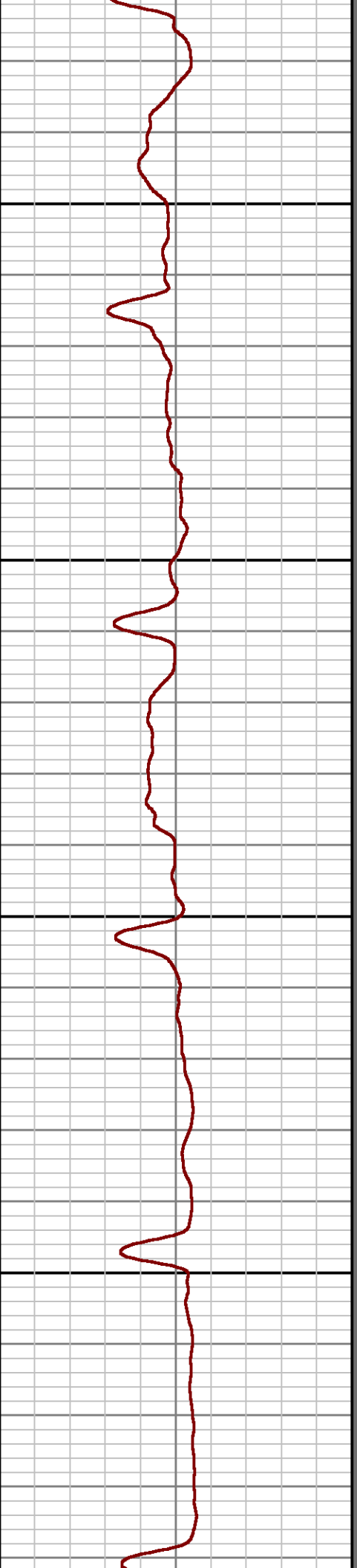
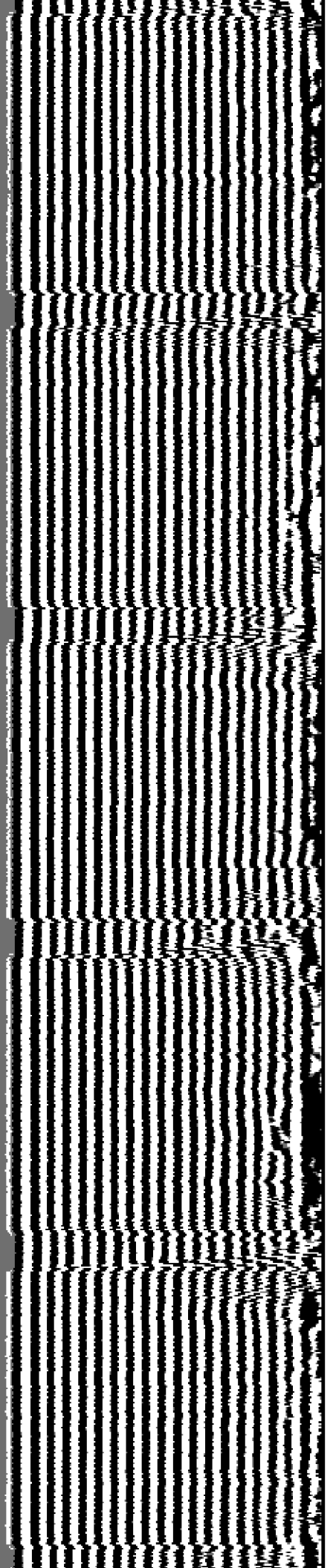






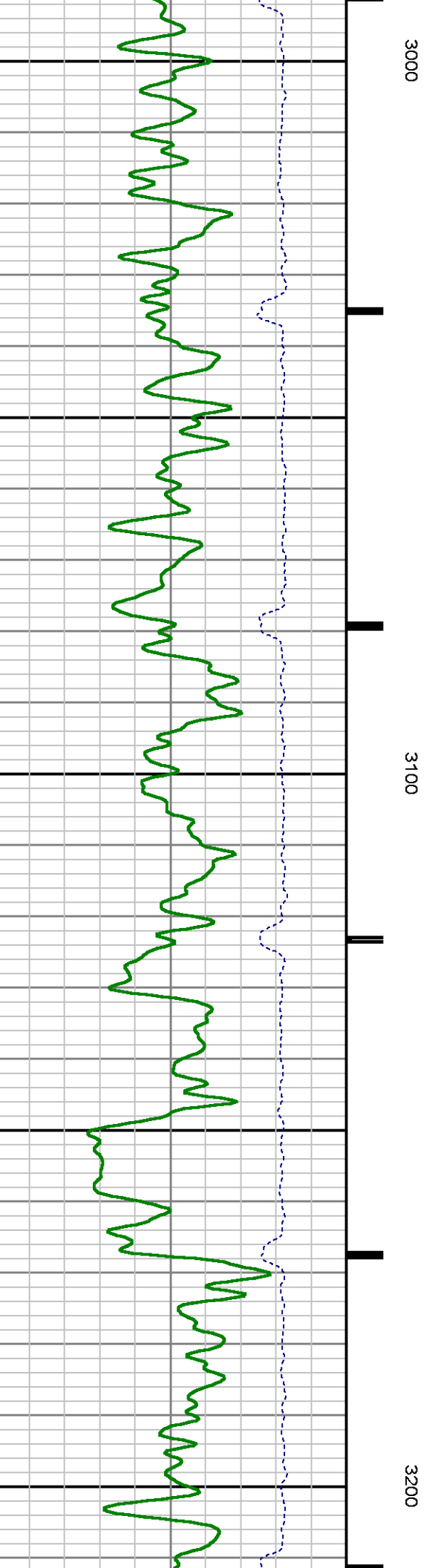
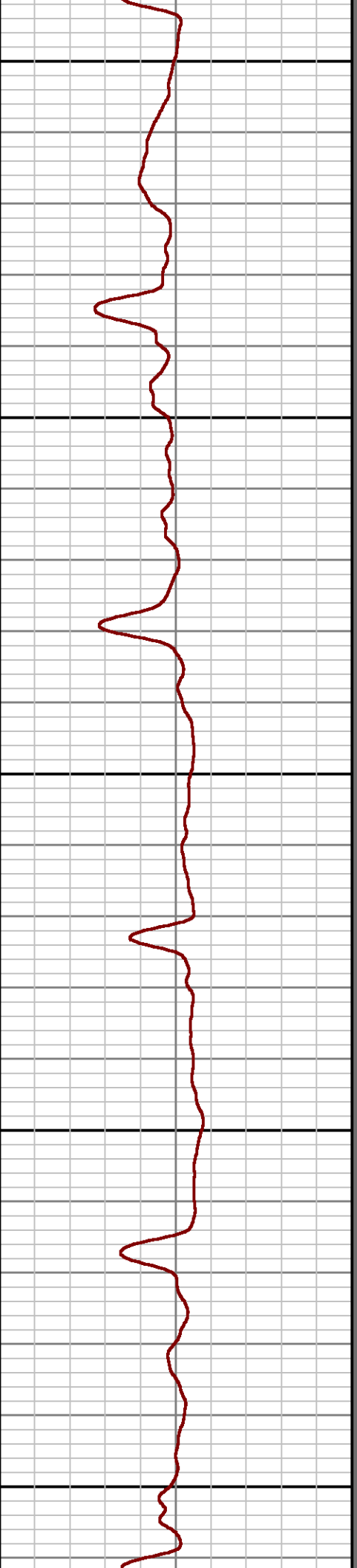
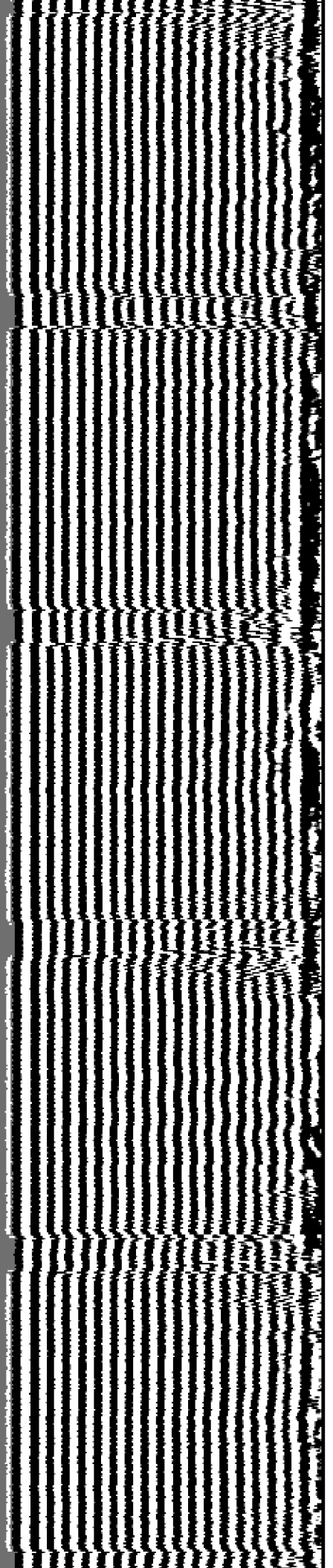


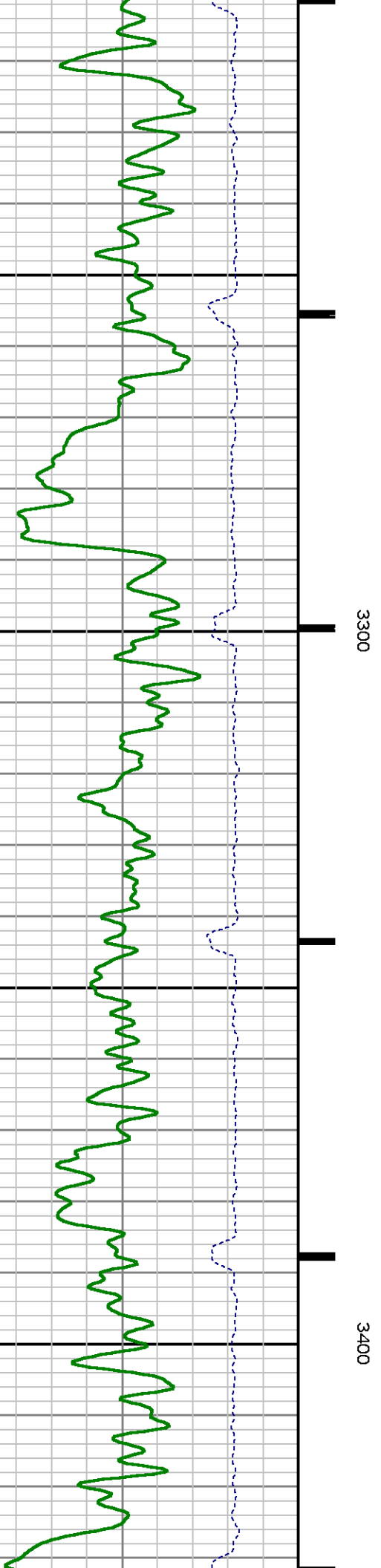
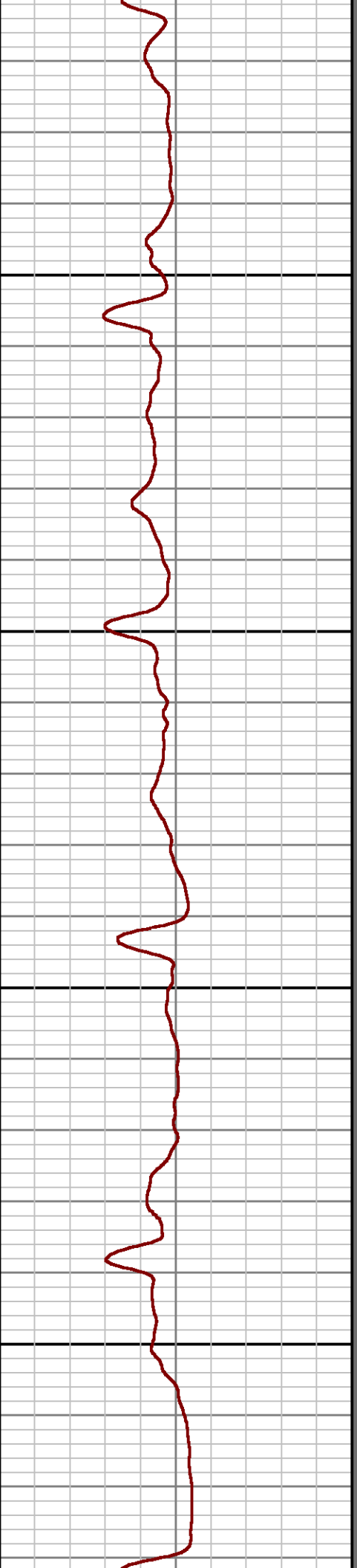
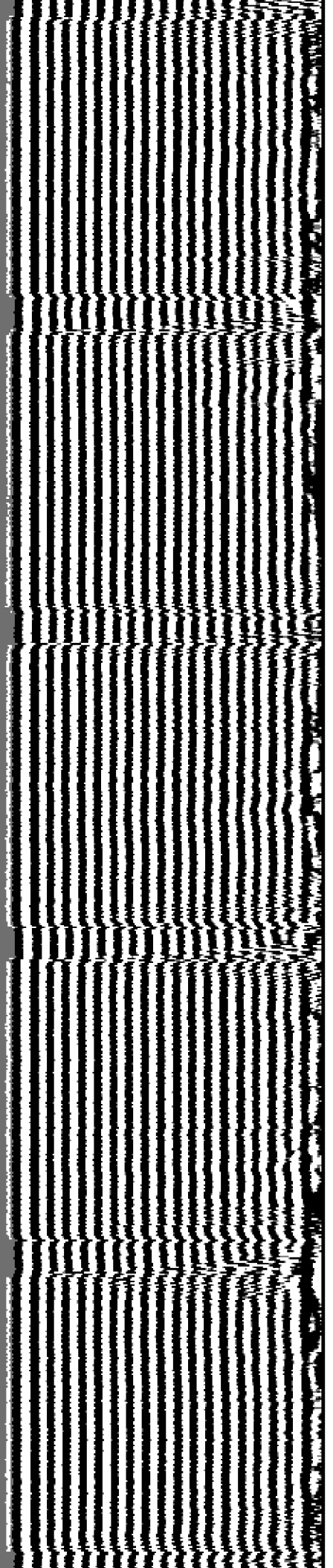


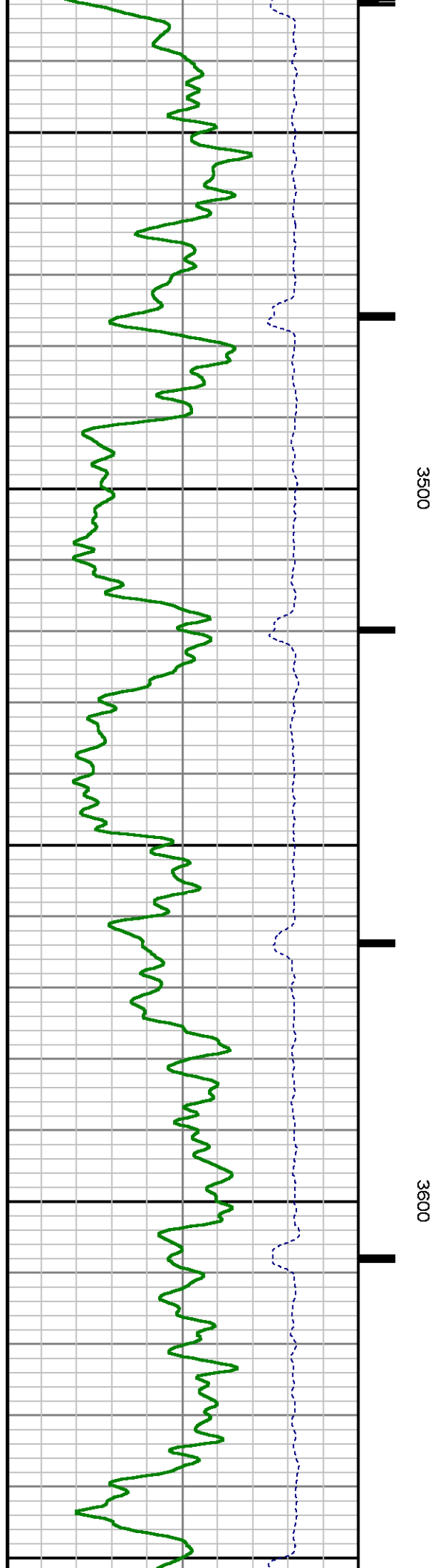
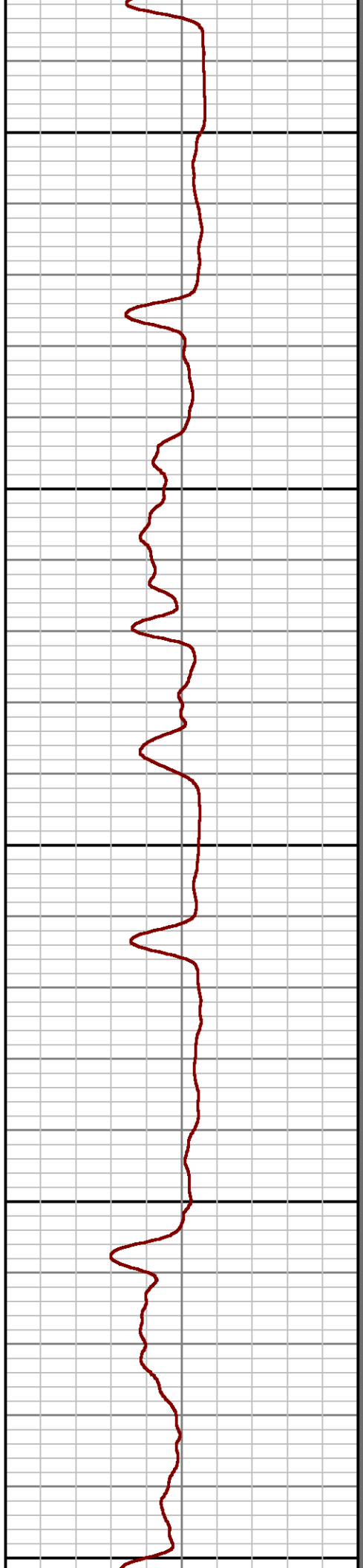
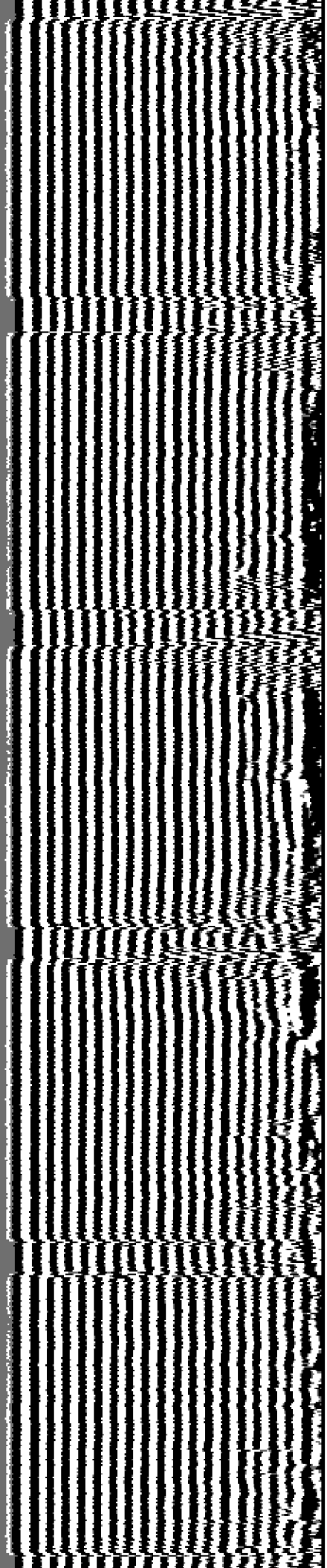


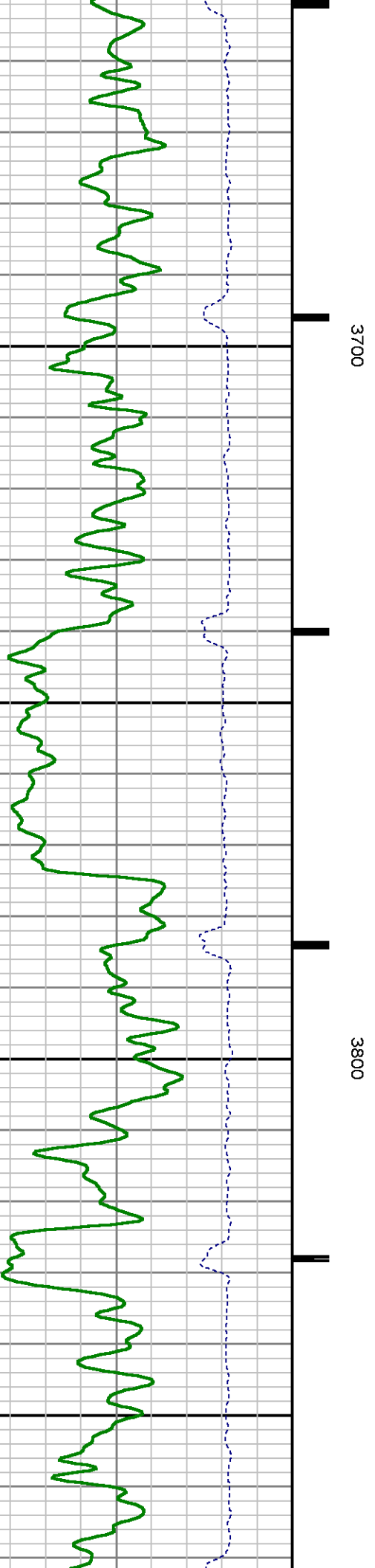
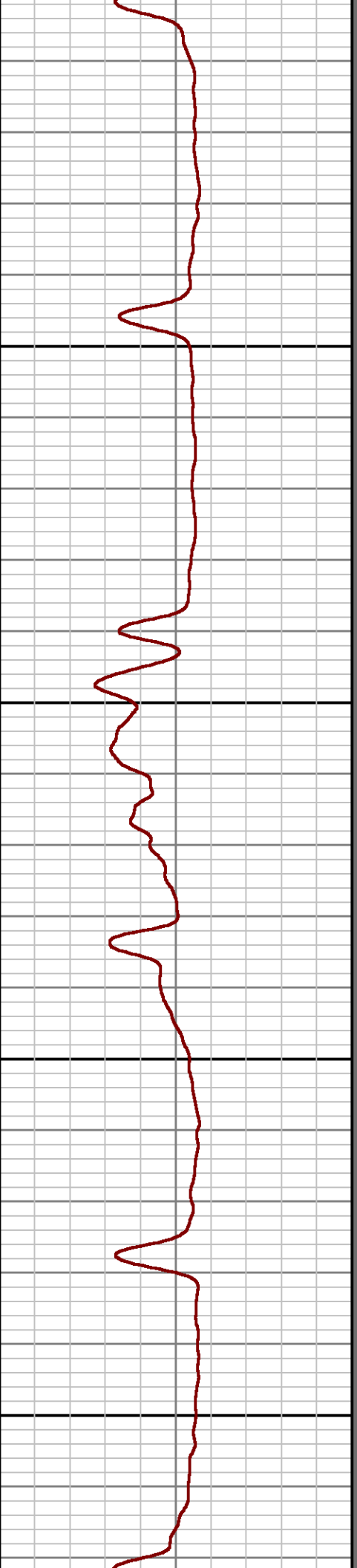
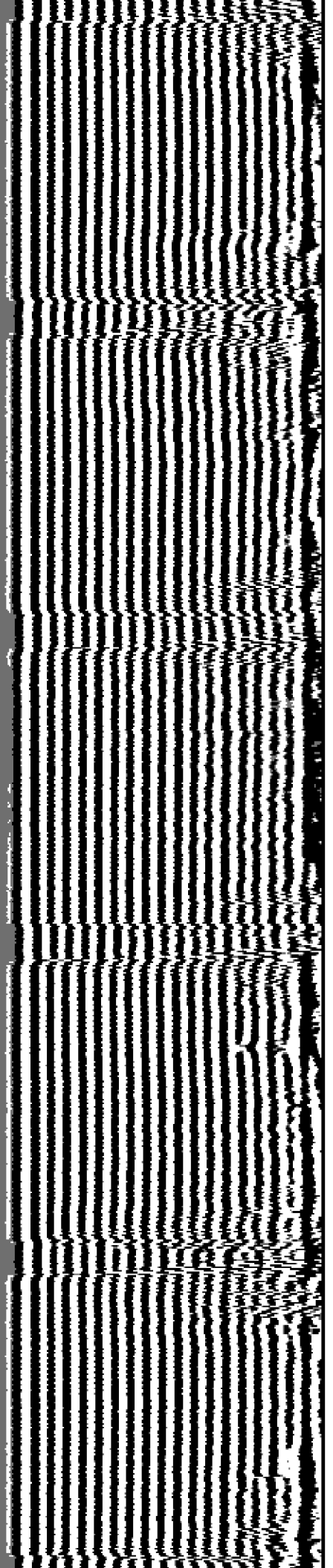
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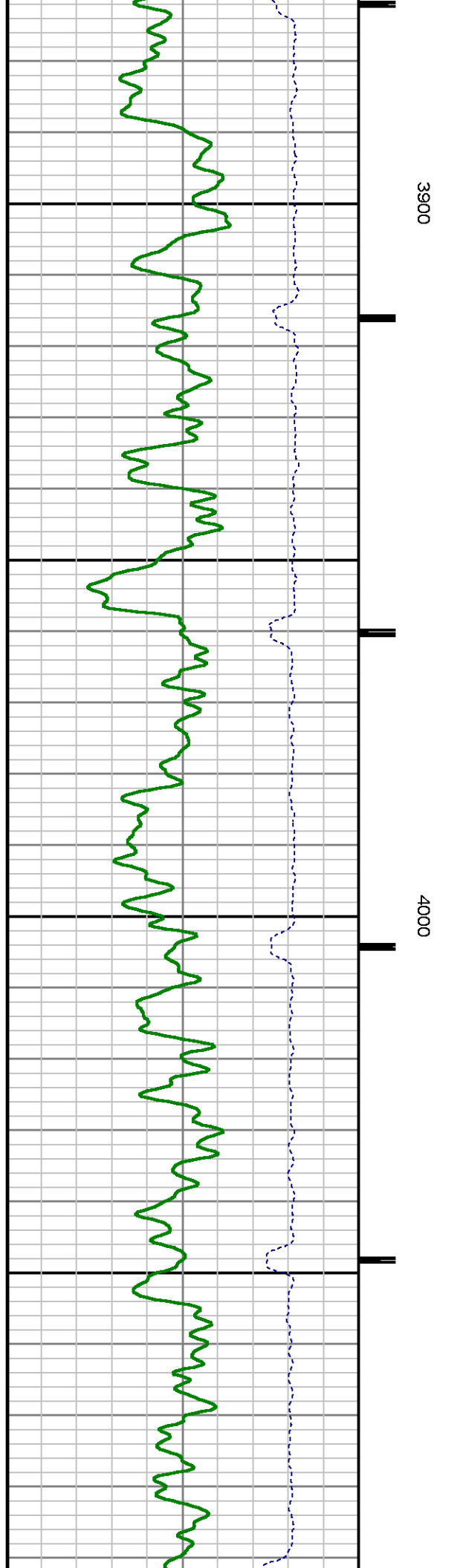
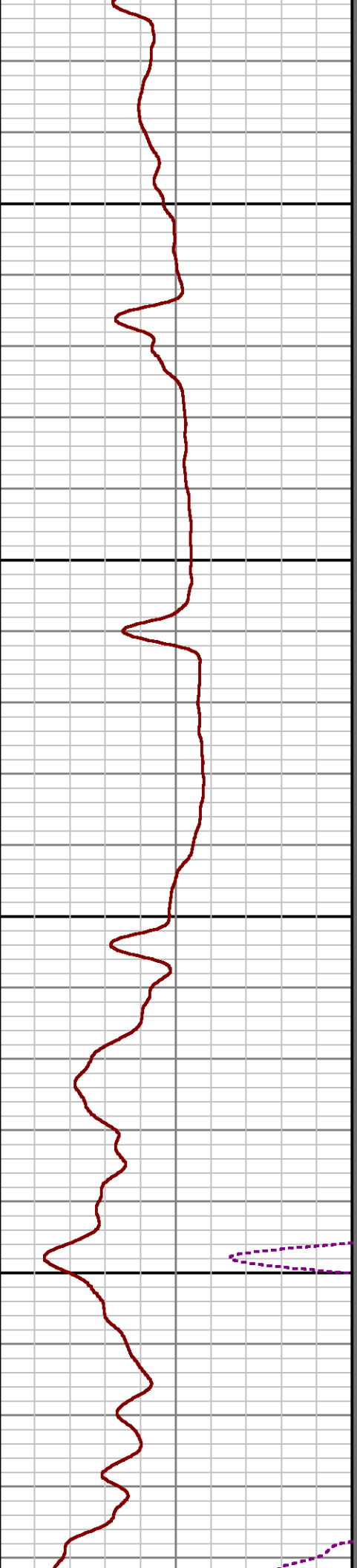
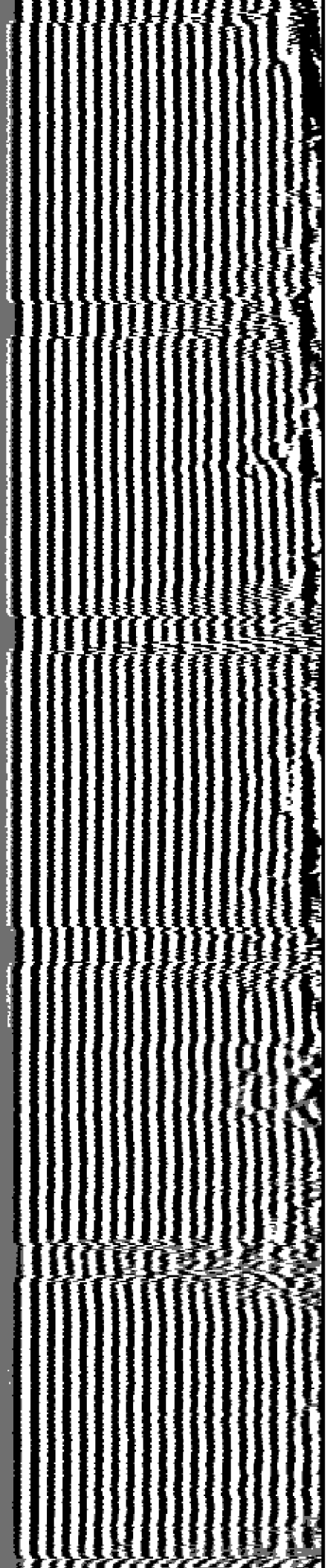
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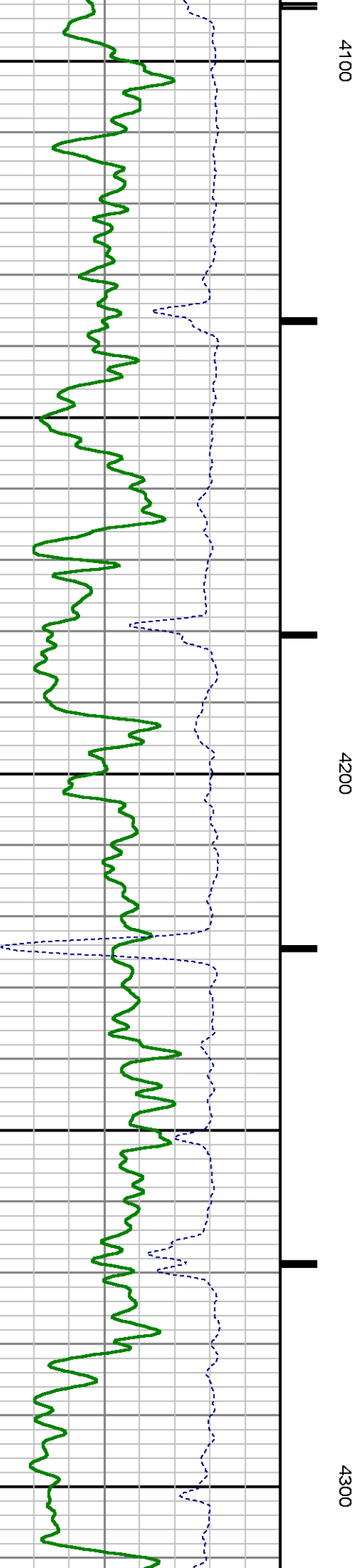
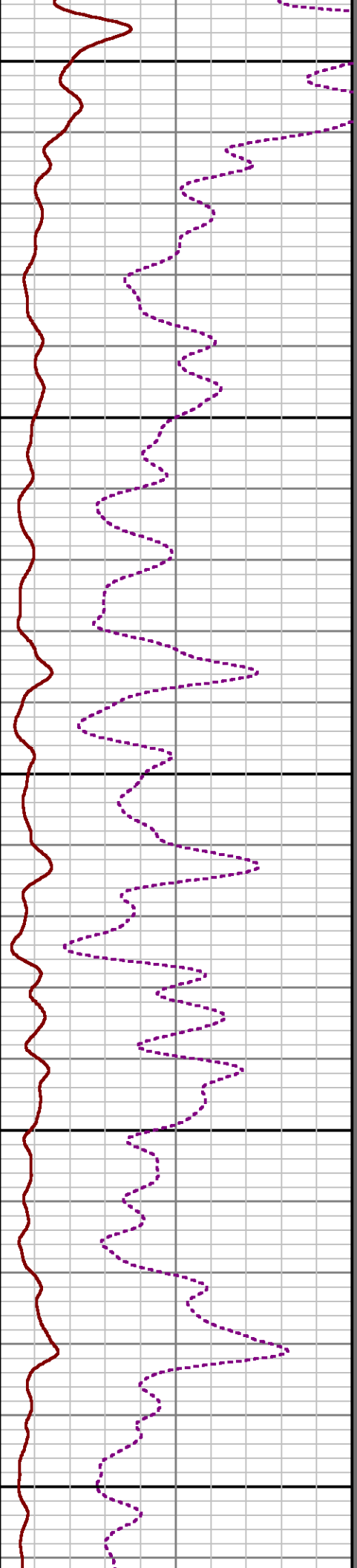
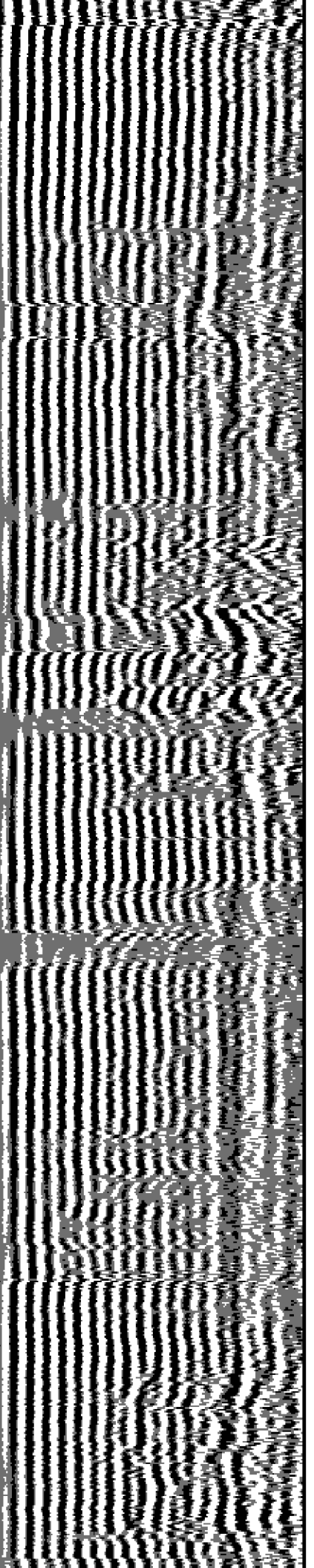


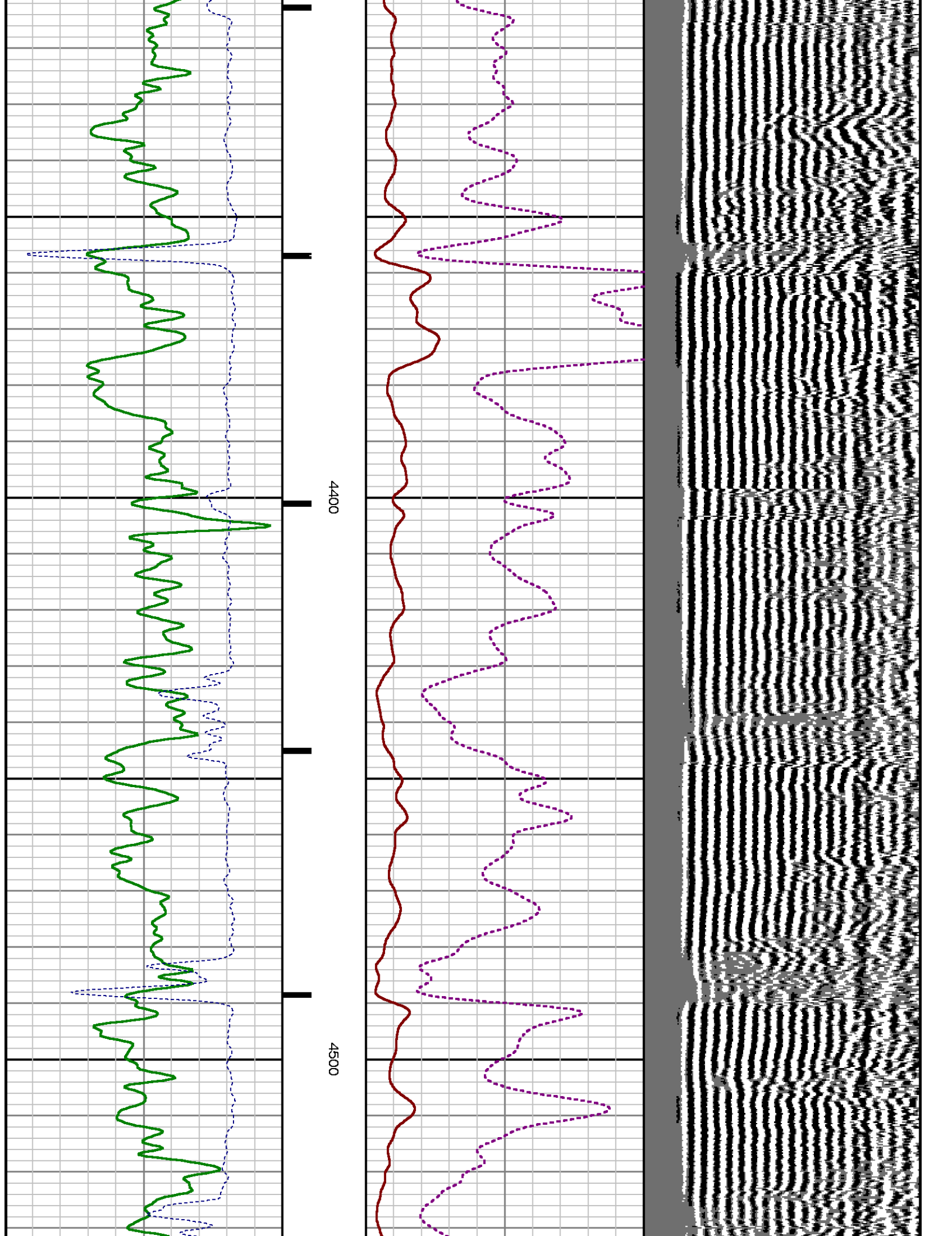


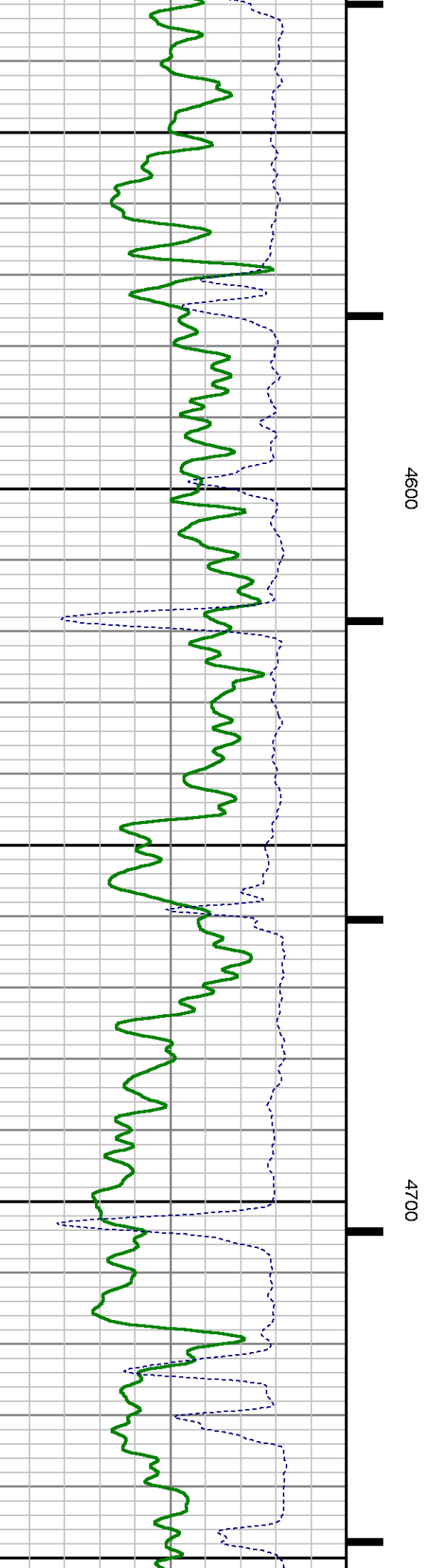
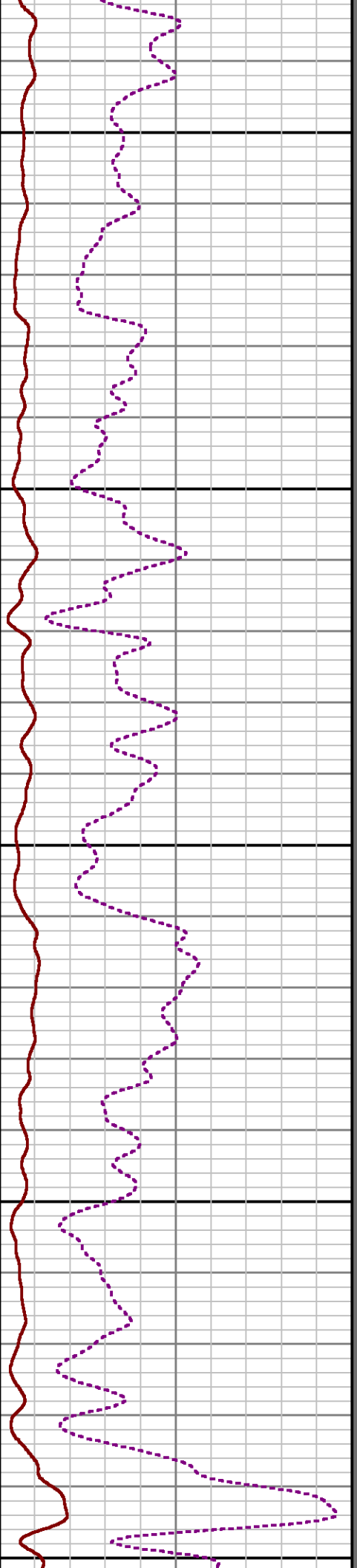
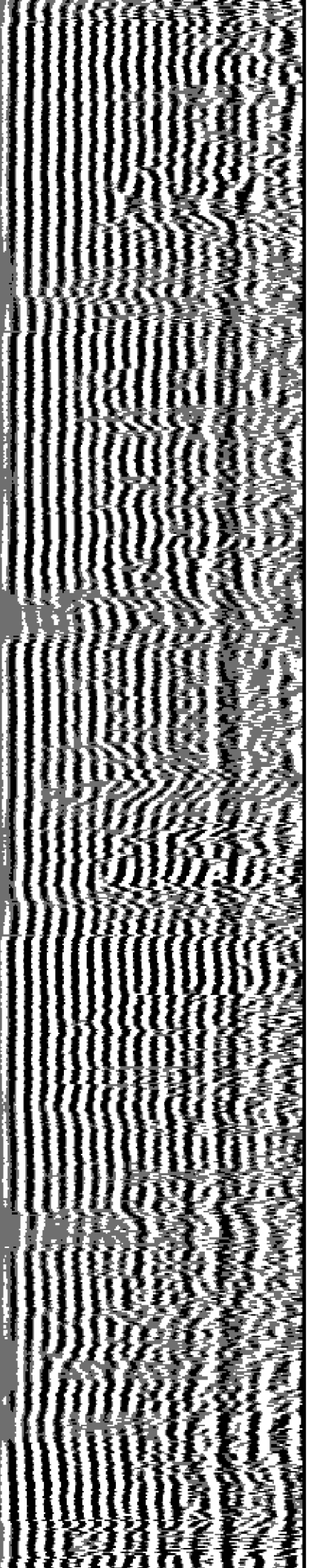


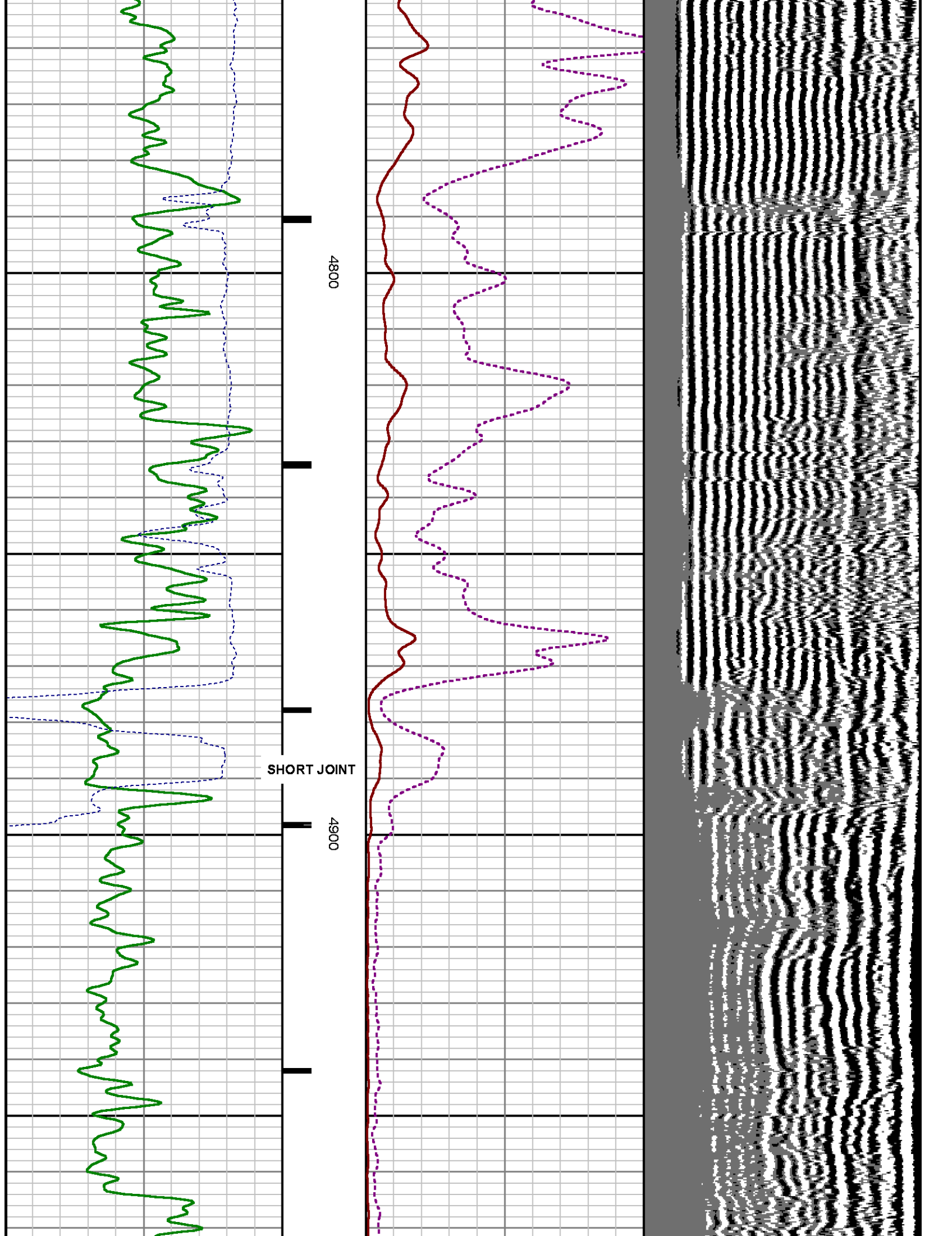


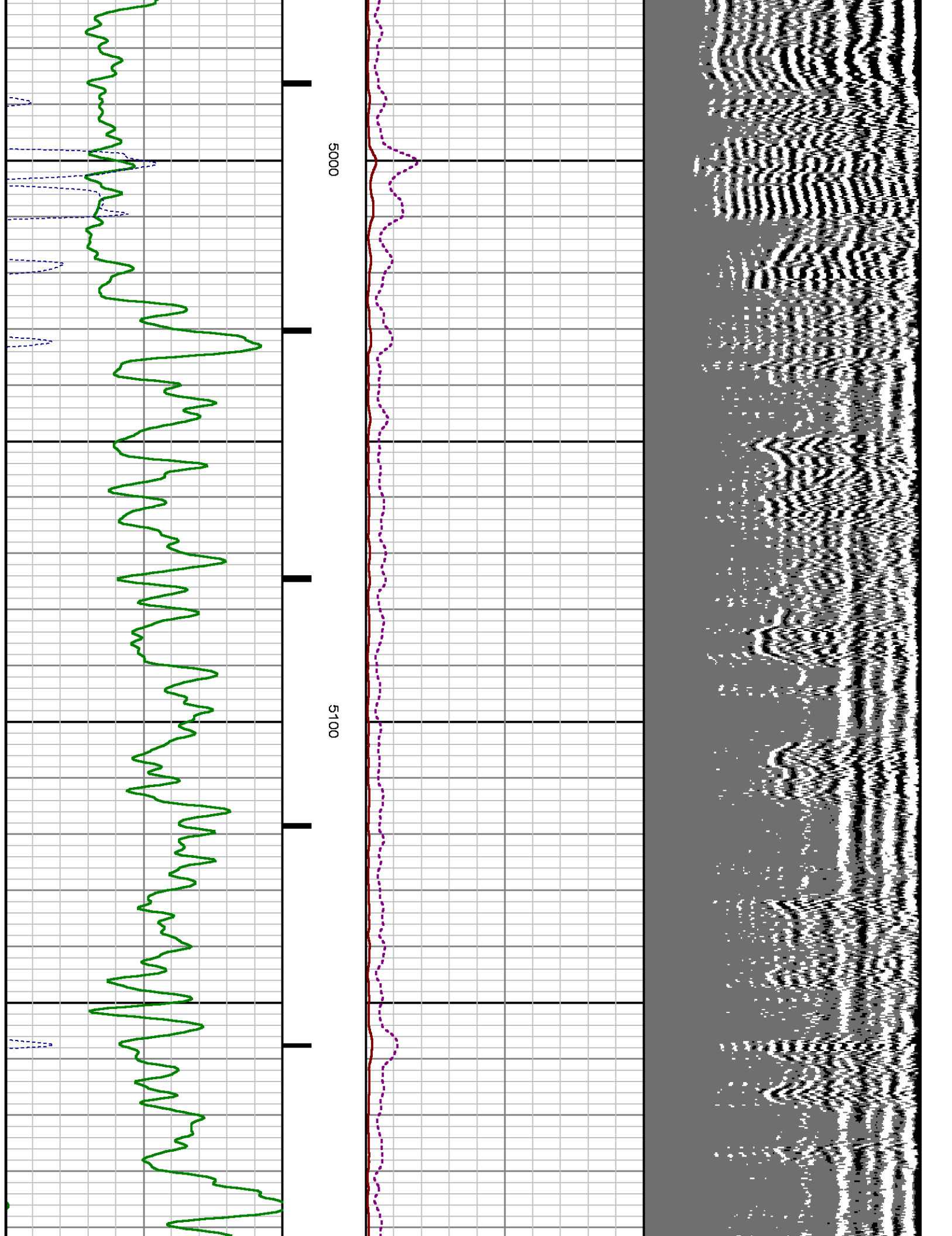


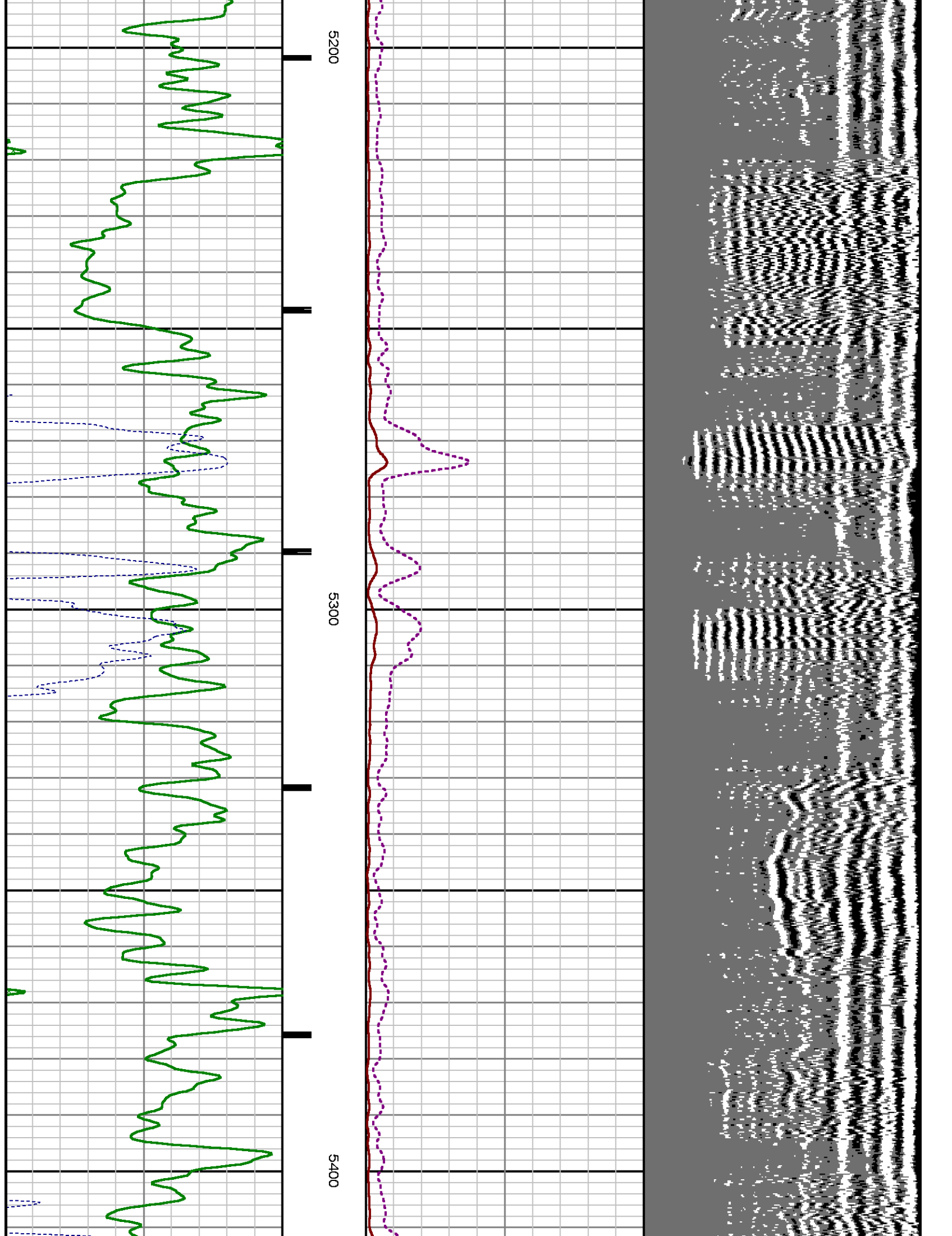


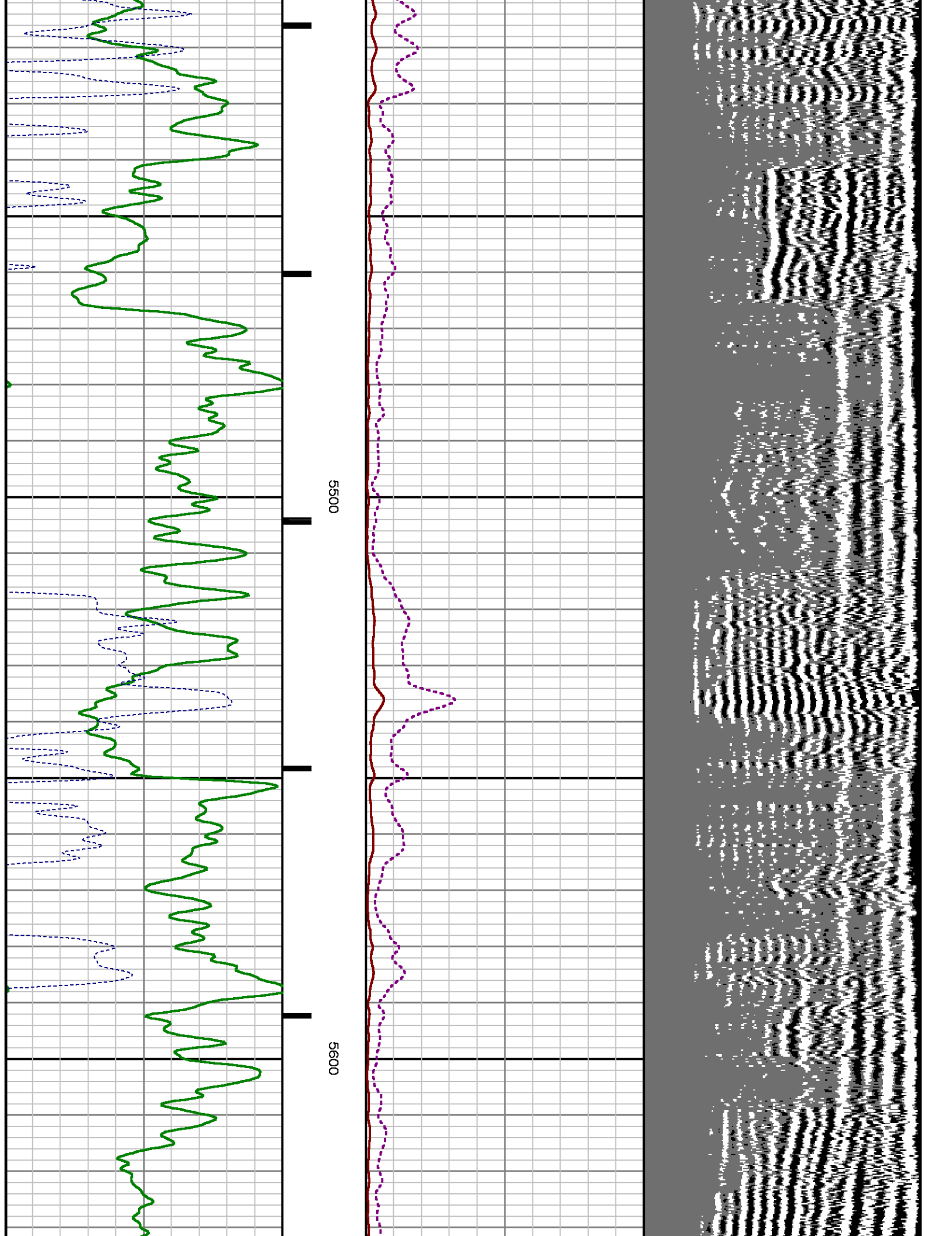


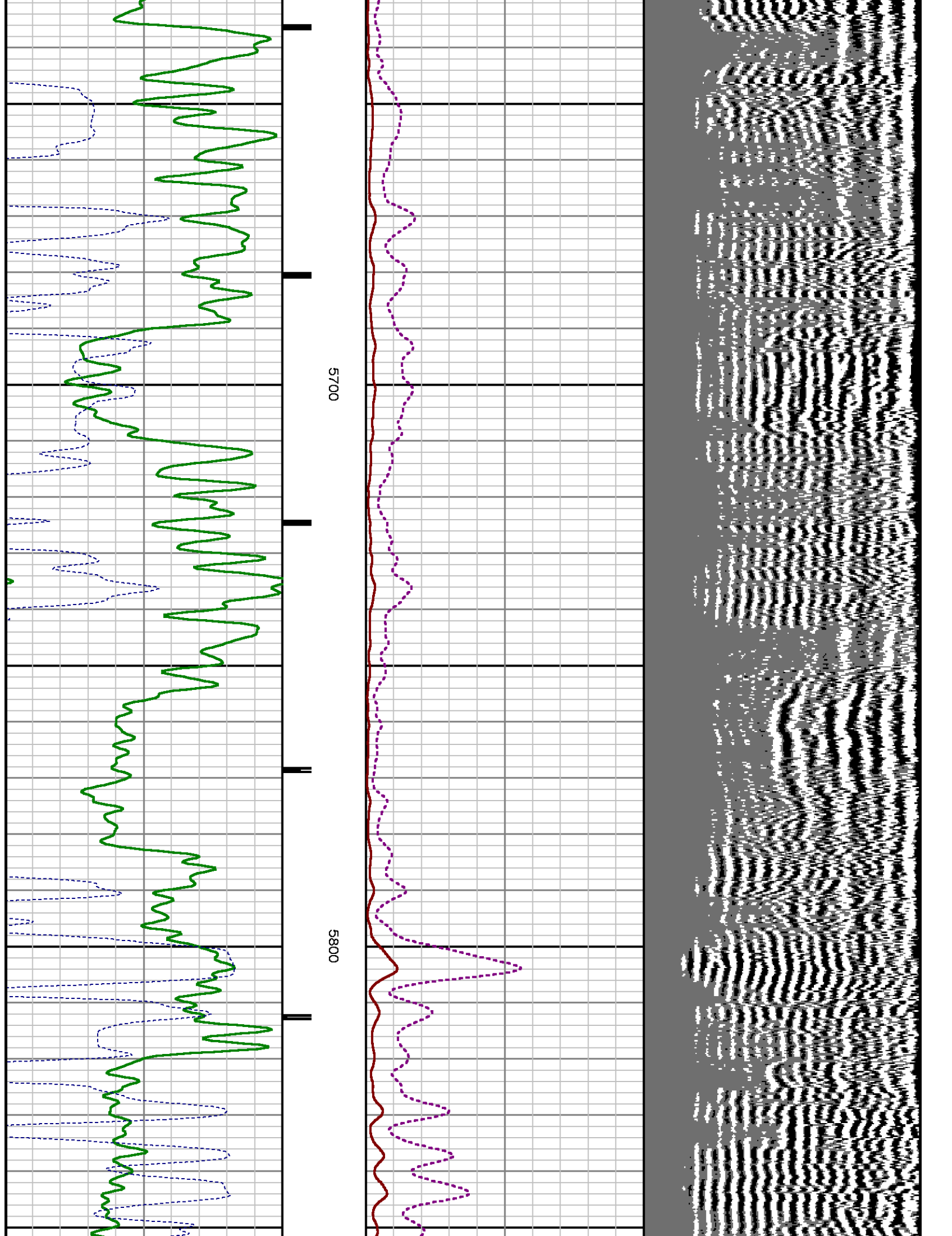


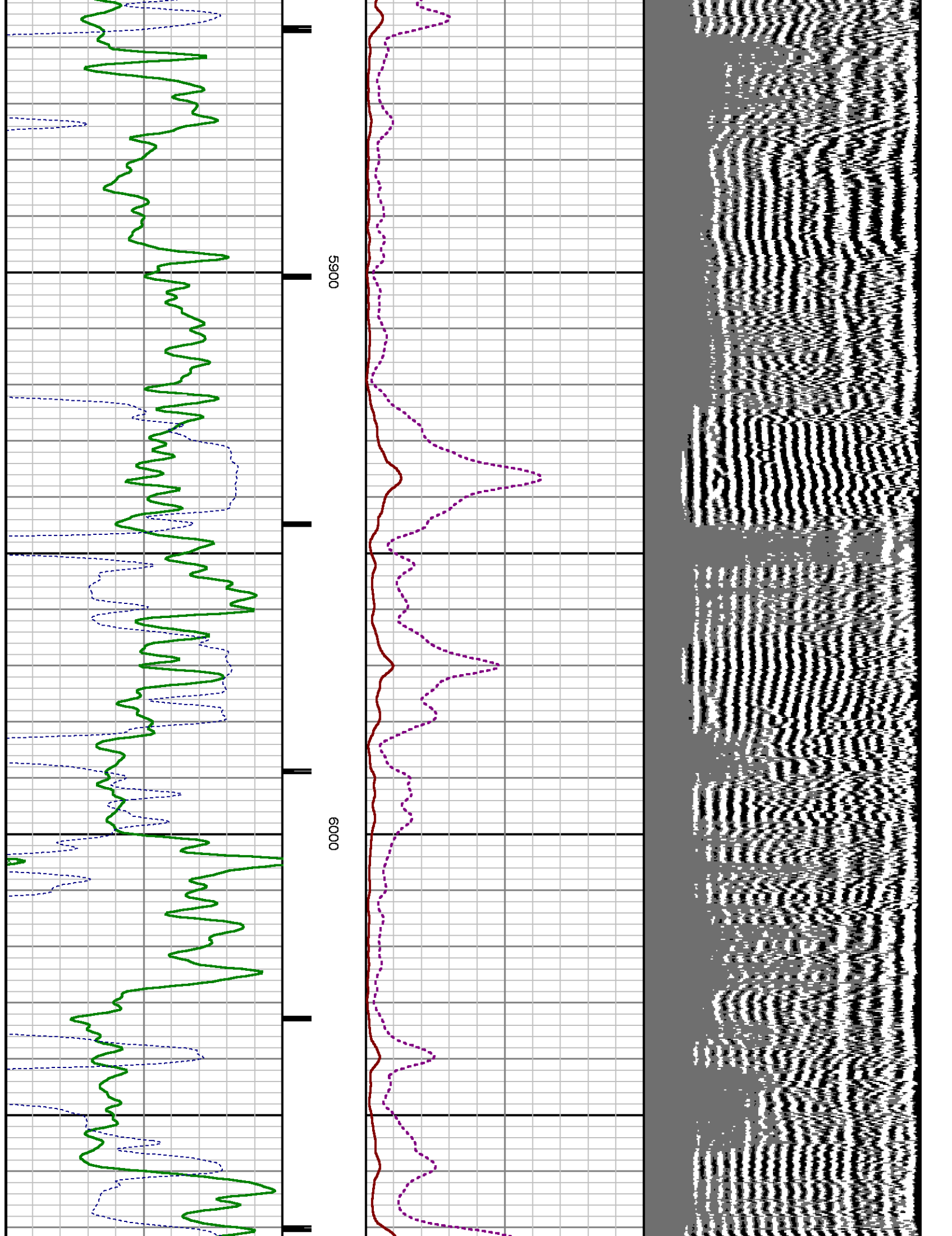


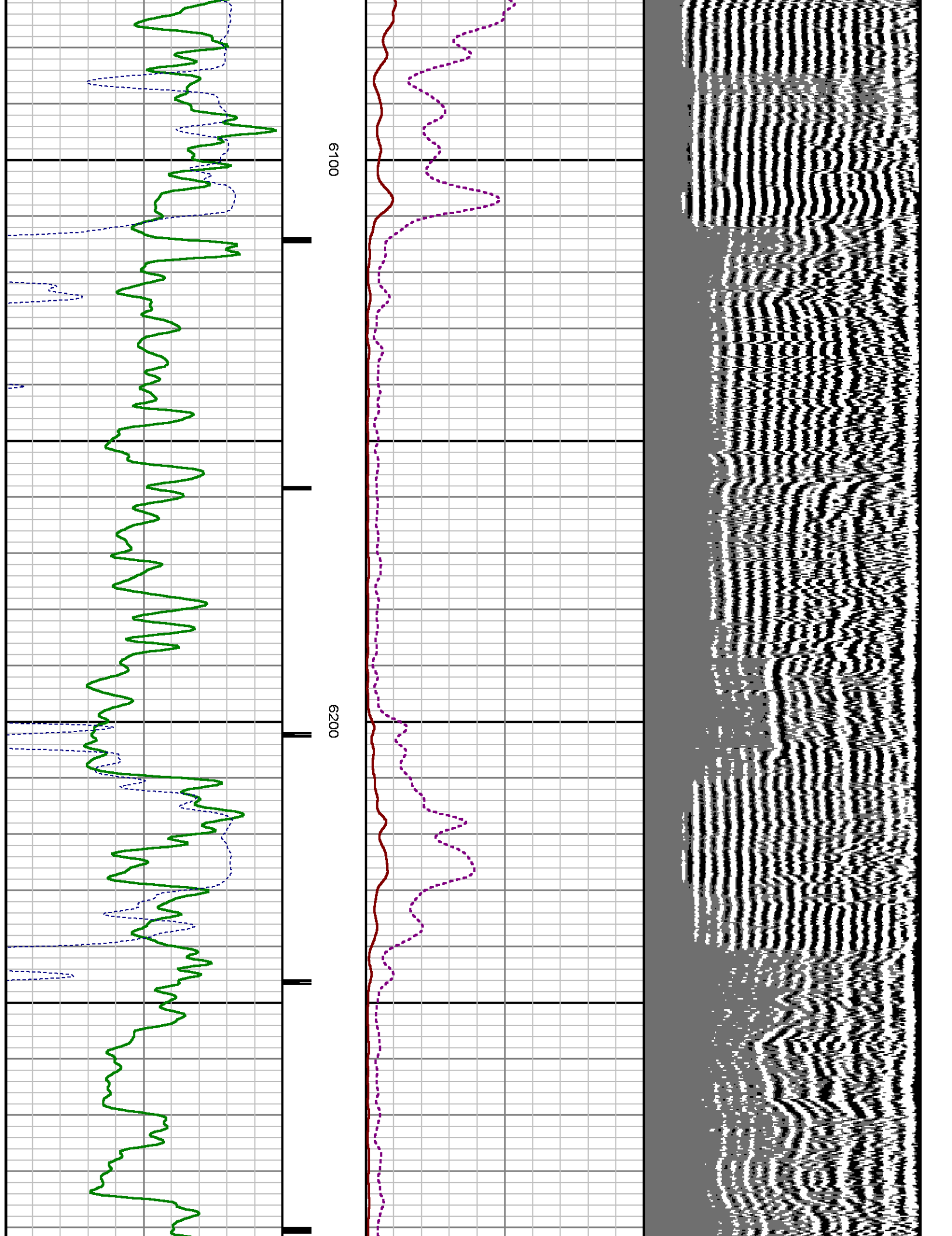


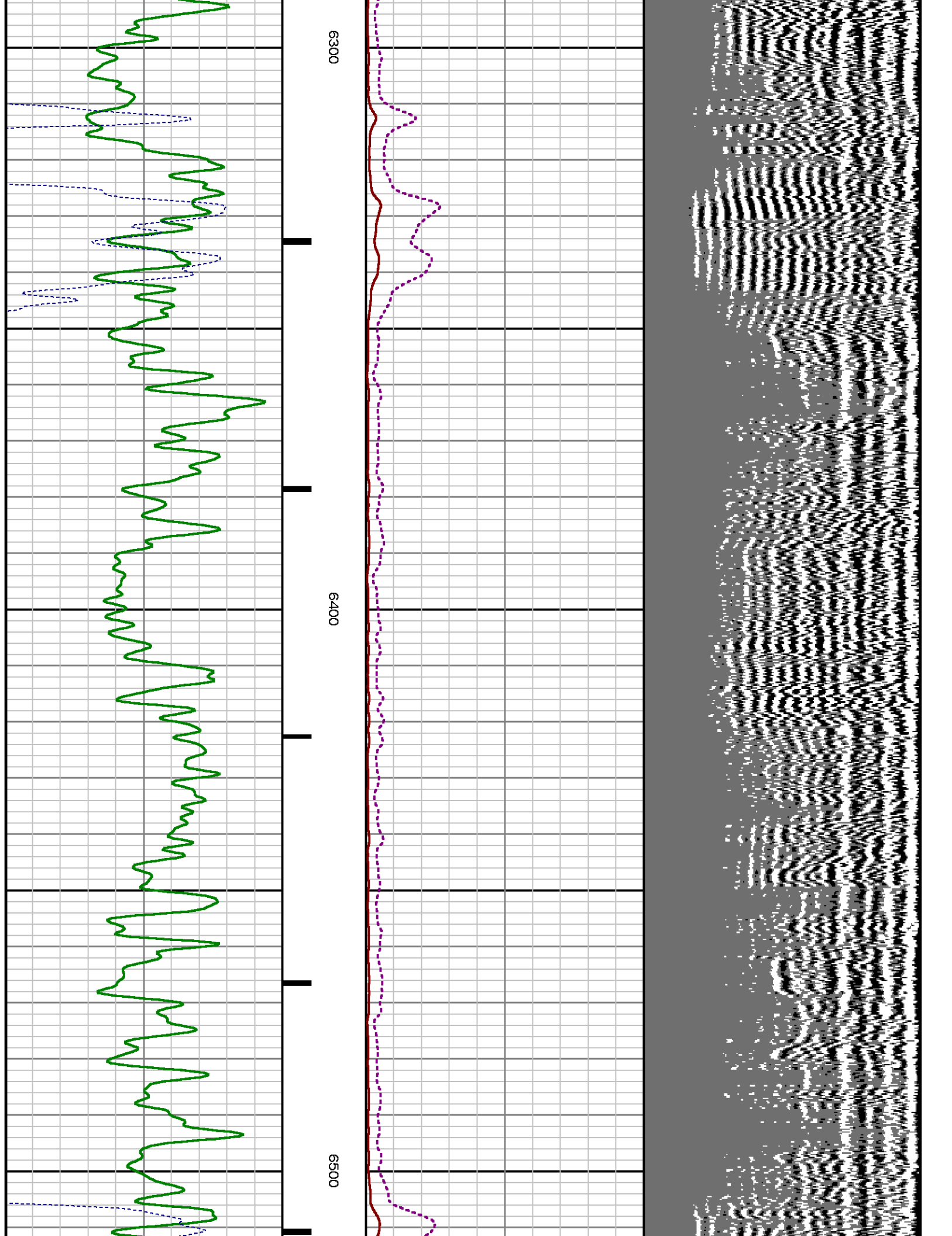


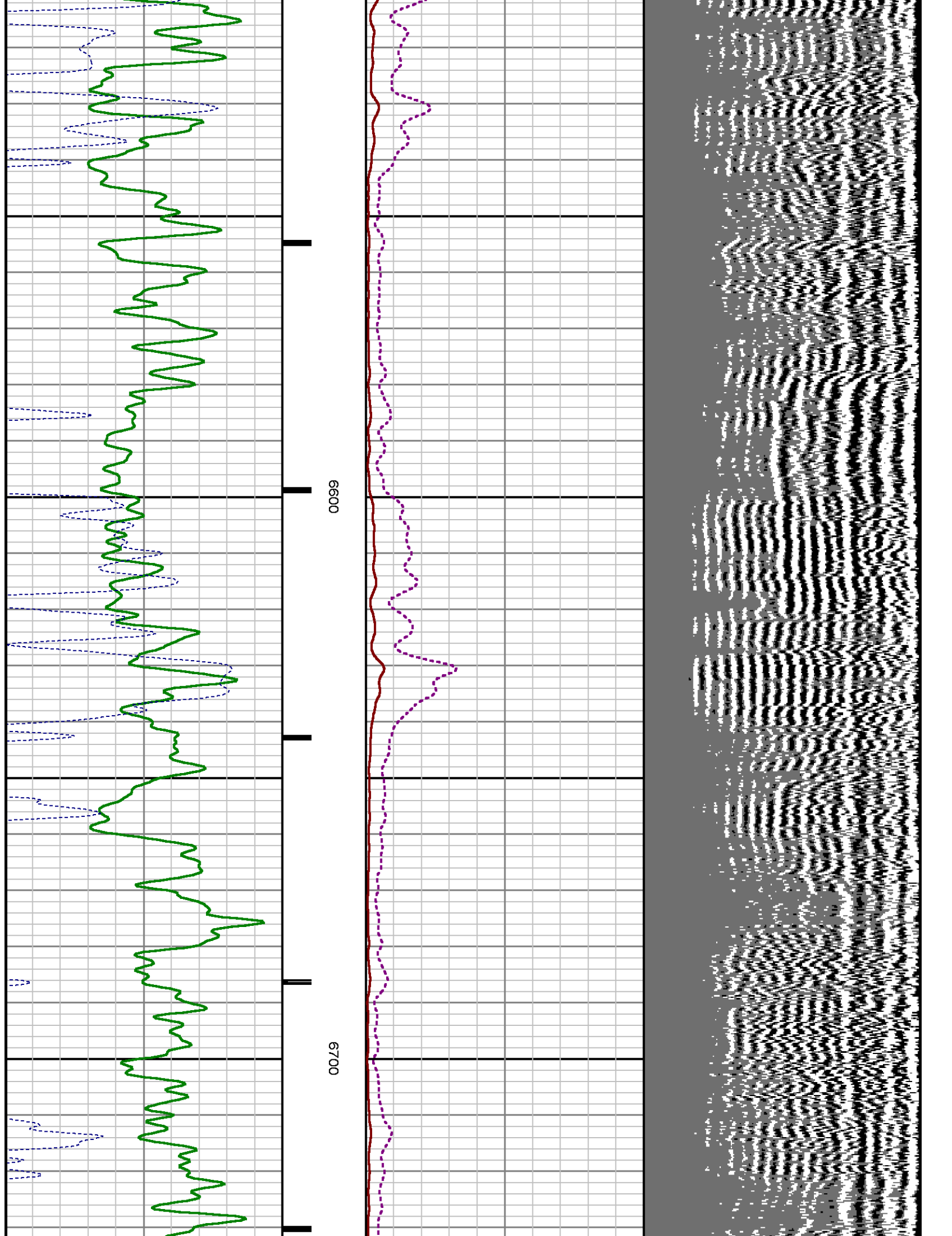


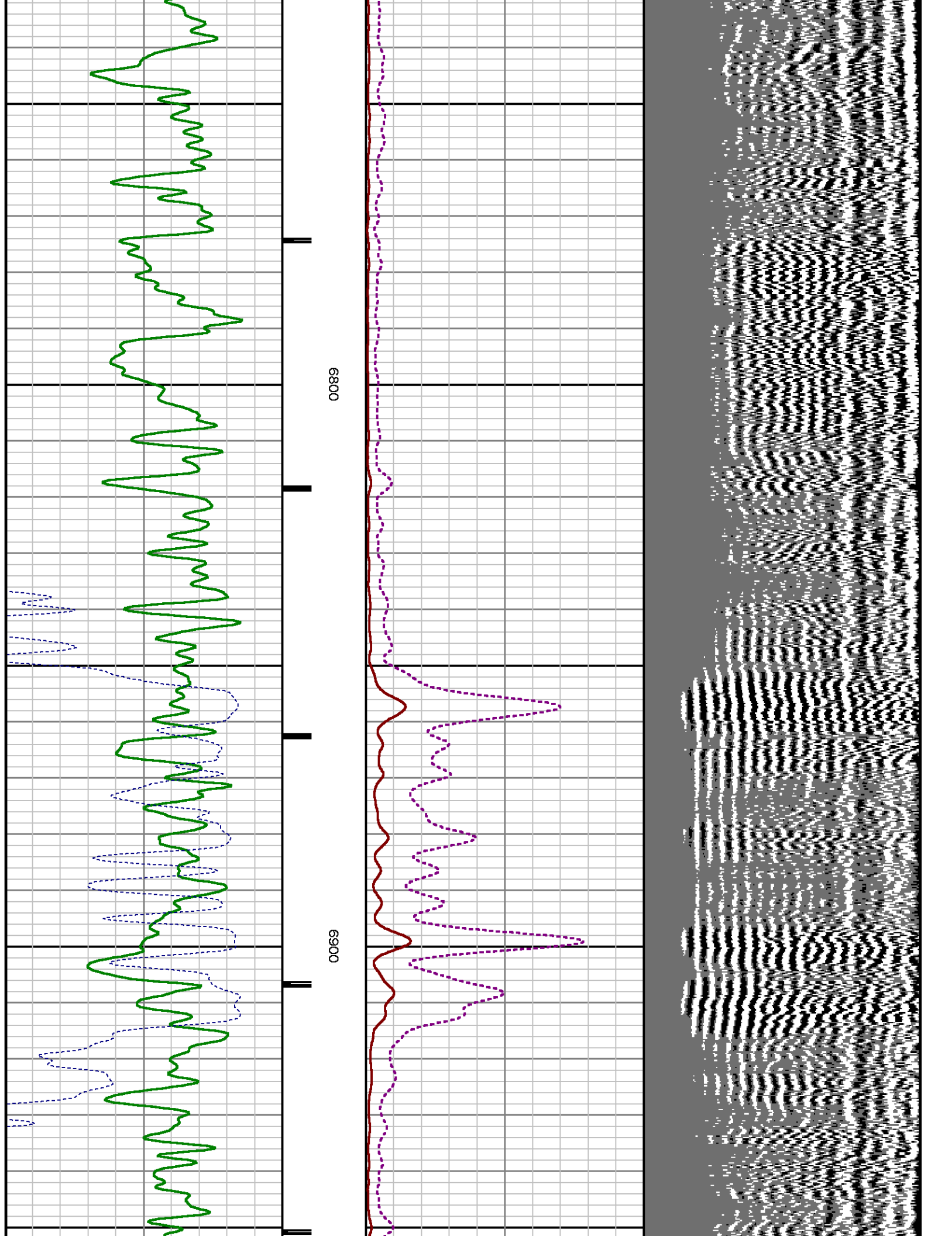


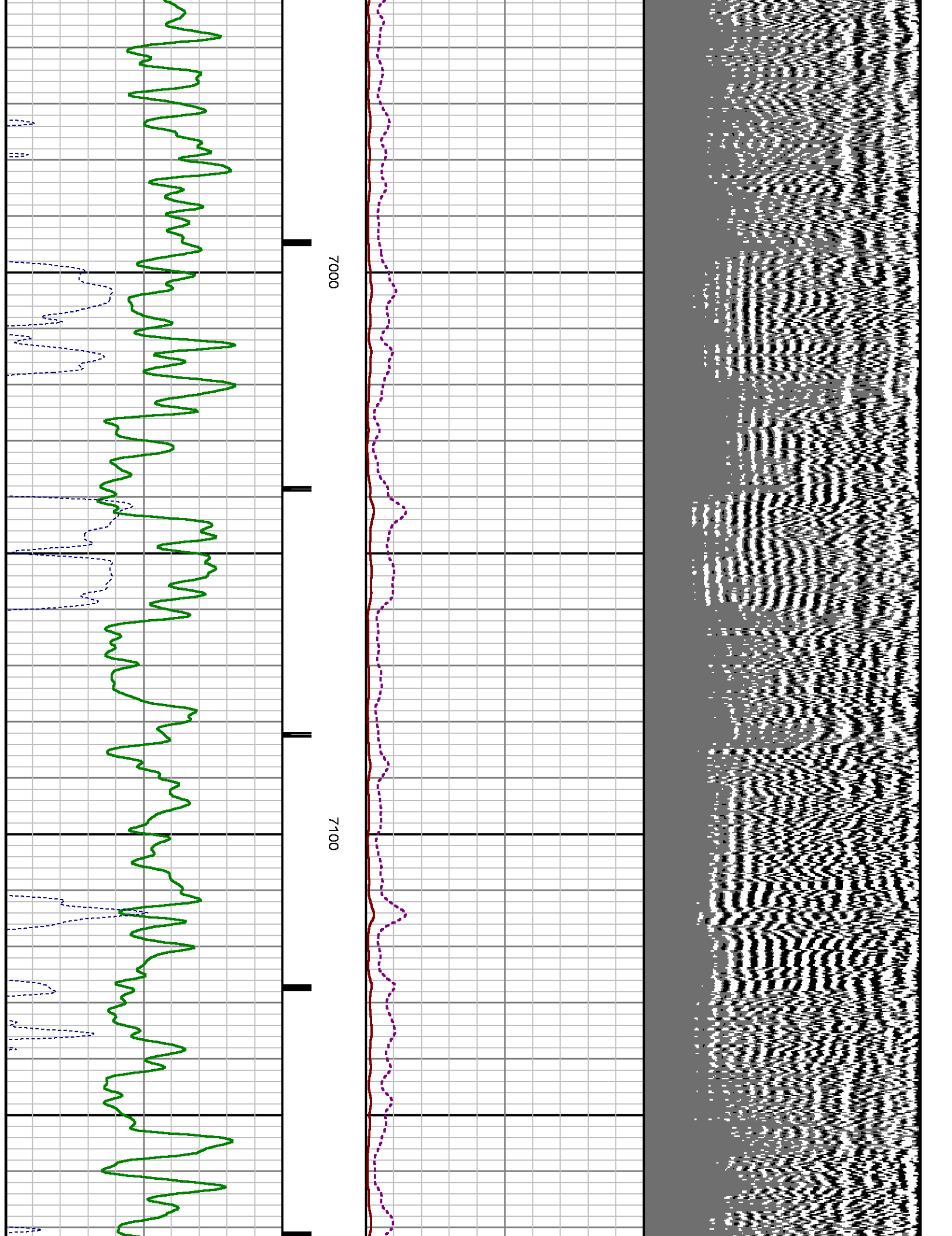


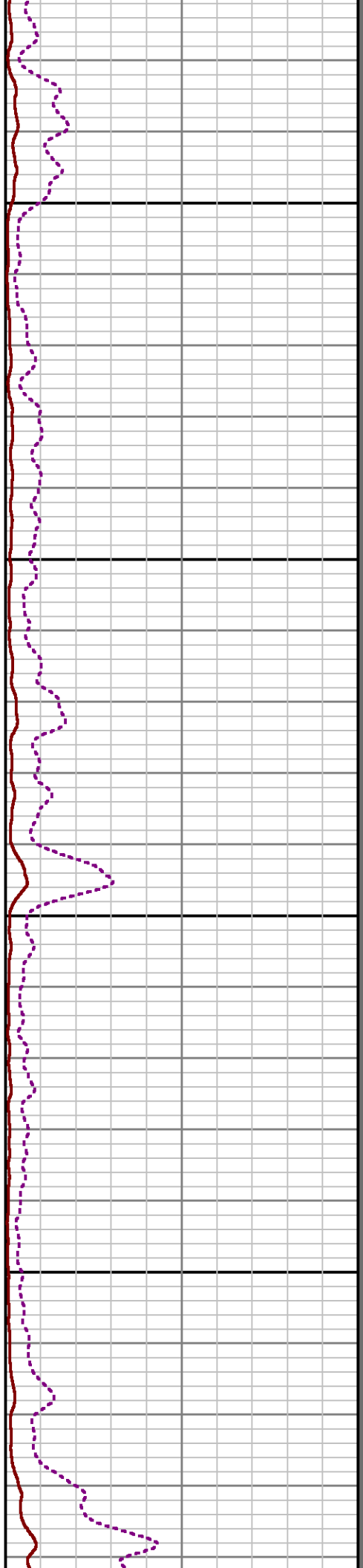
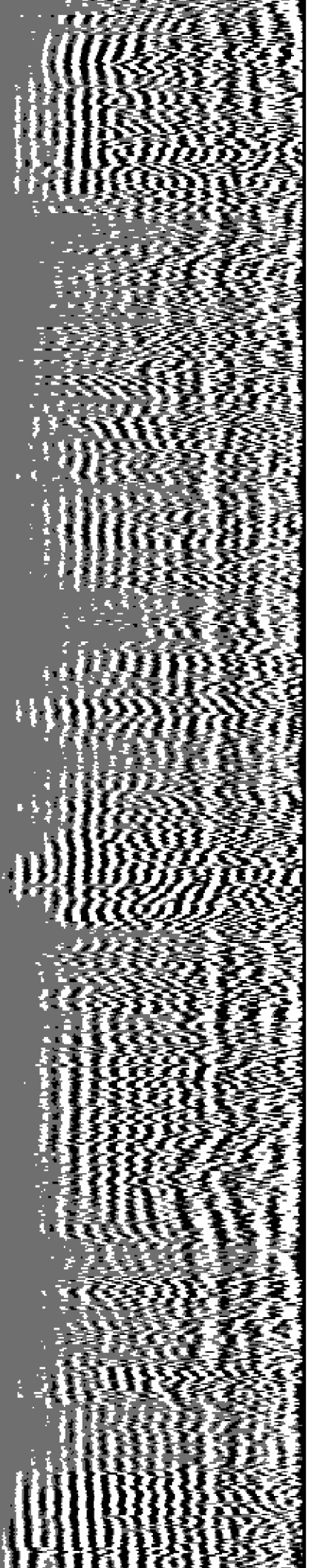






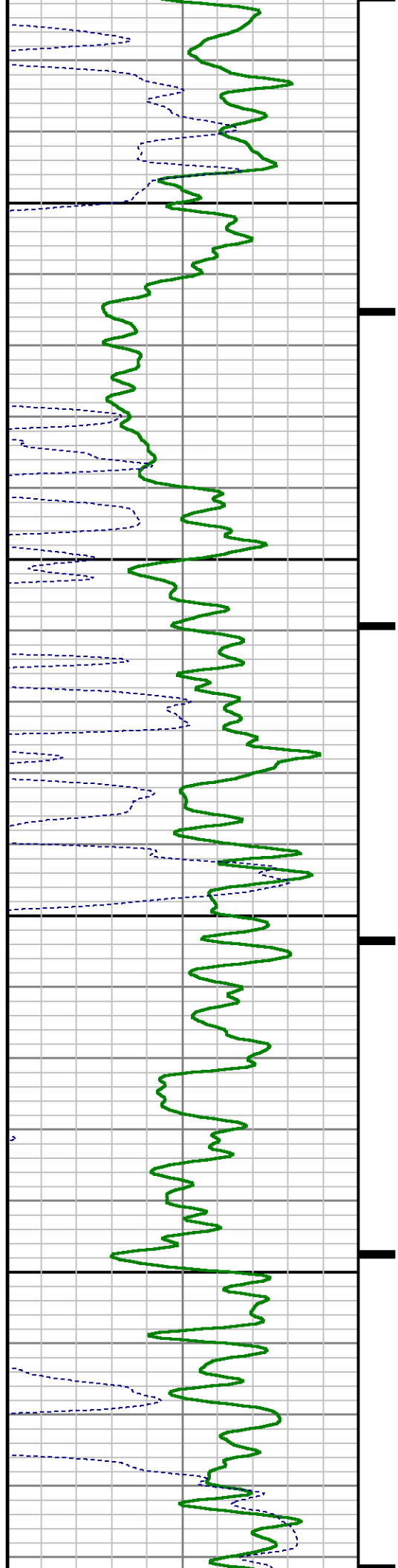


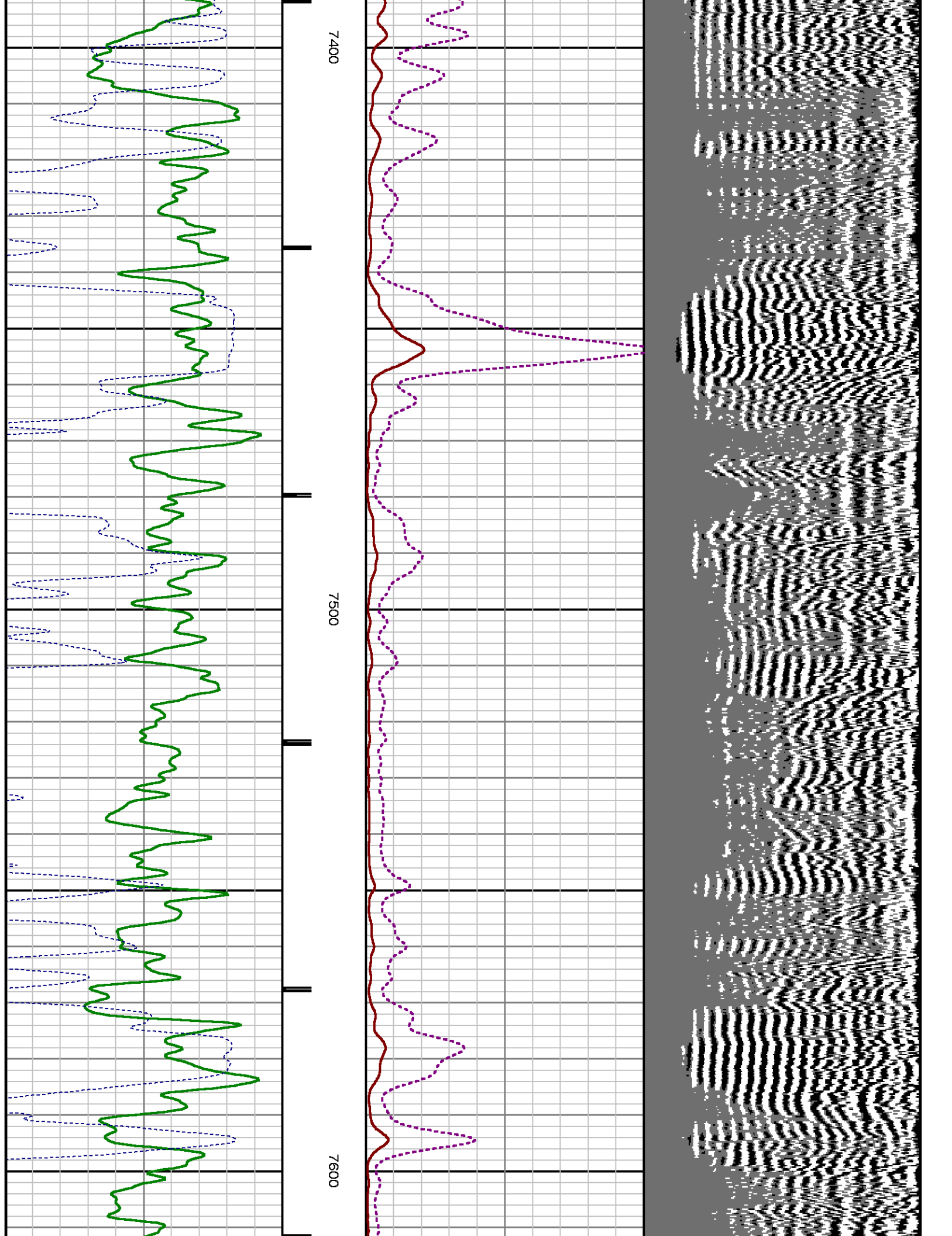


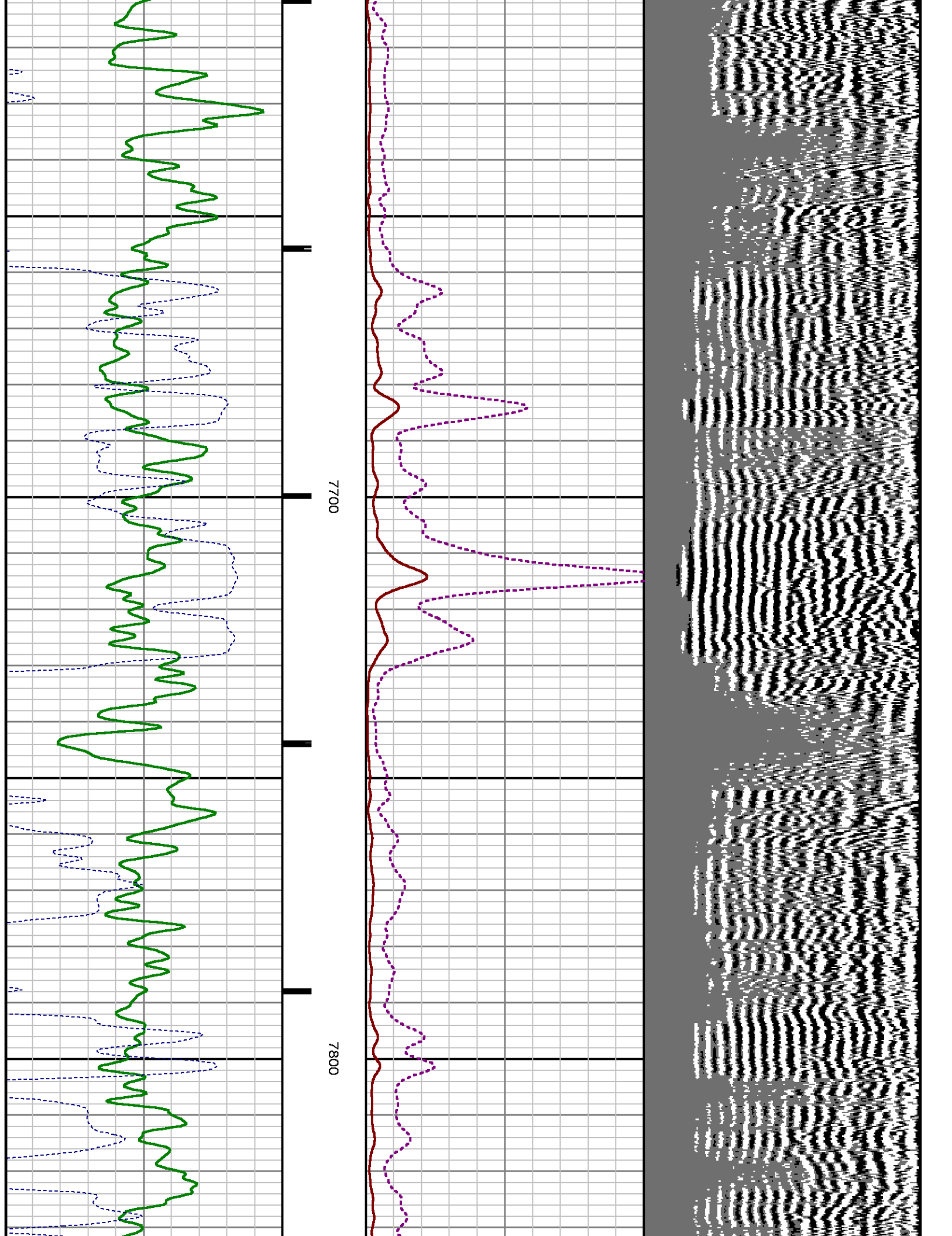


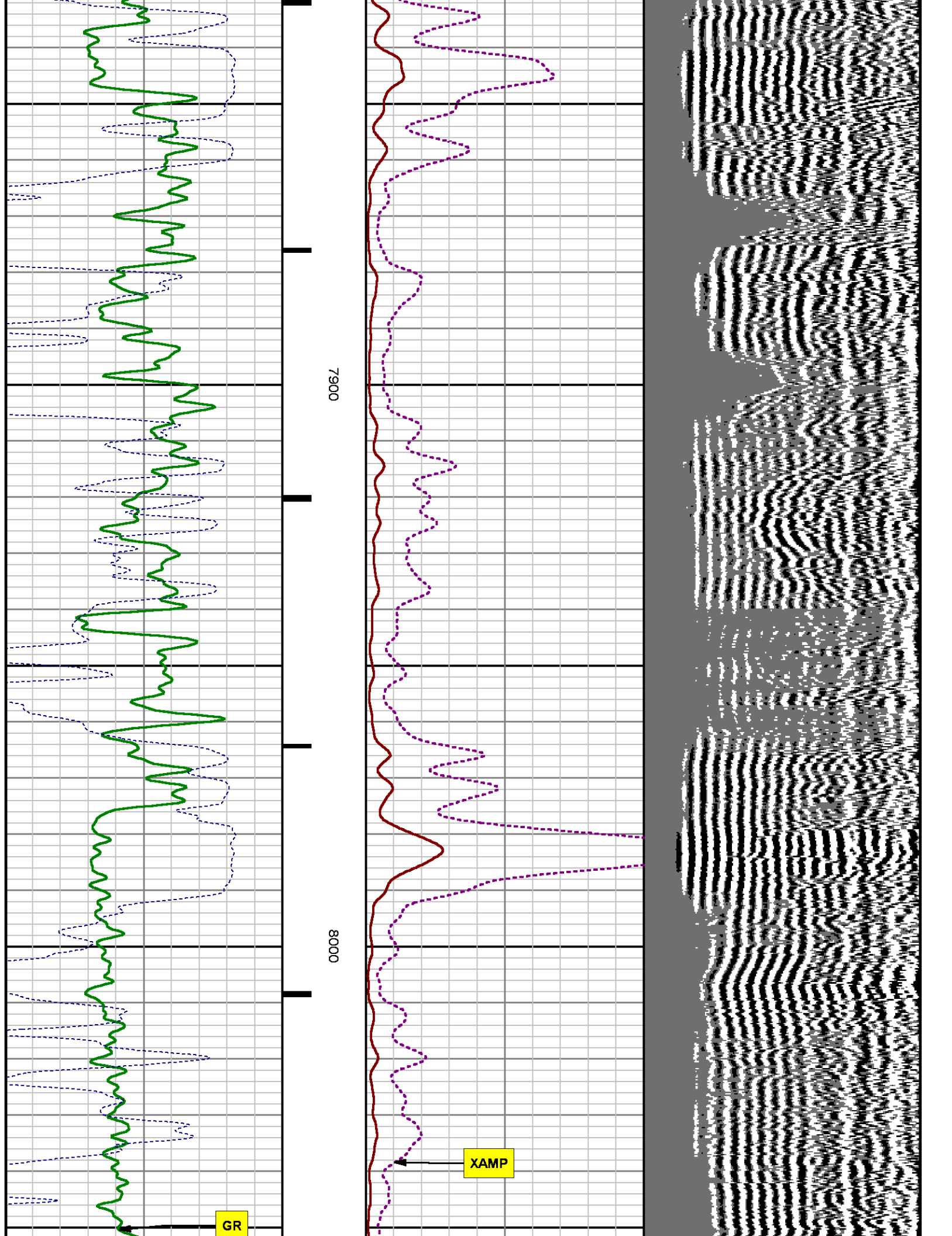
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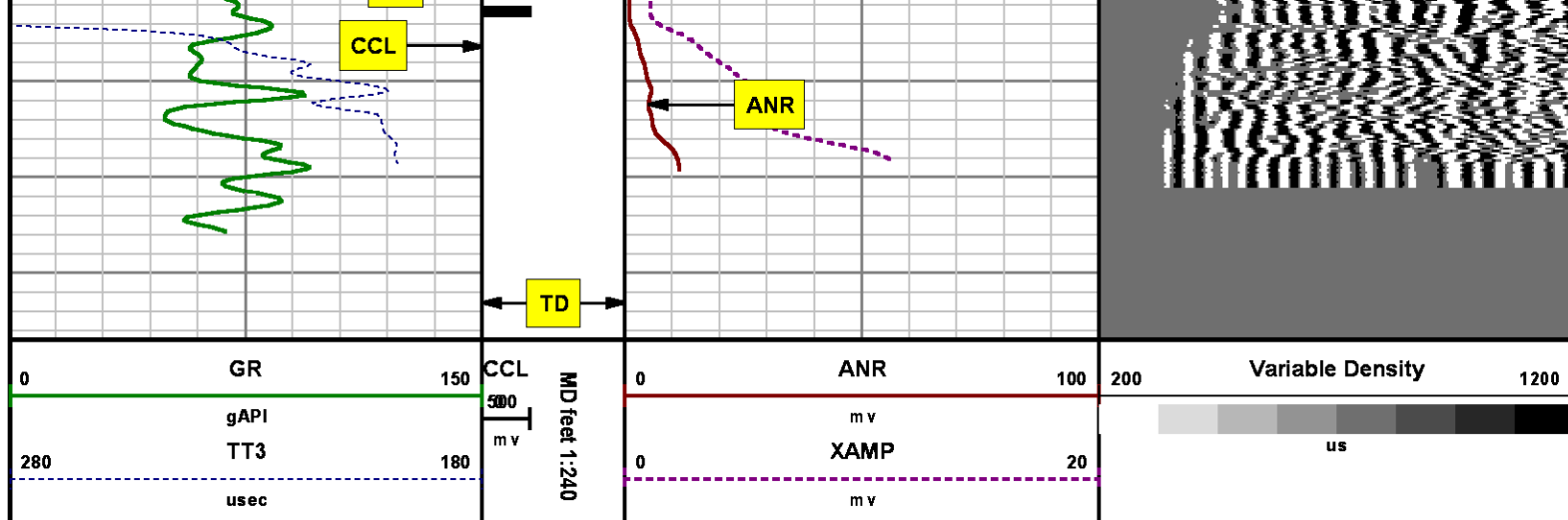
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## SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	35.875	8087.000
RAL	Amp Gate Start Near	195.000	usec	35.875	8087.000
RAL	Amp Gate Start Radial	195.000	usec	35.875	8087.000
RAL	Amp Gate Width Far	25.000	usec	35.875	8087.000
RAL	Amp Gate Width Near	25.000	usec	35.875	8087.000
RAL	Amp Gate Width Radial	25.000	usec	35.875	8087.000
RAL	casing od	4.500	inches	35.875	8087.000
RAL	casing wt	11.600	lbm/ft	35.875	8087.000
RAL	FB Start Far	291.900	usec	35.875	8087.000
RAL	FB Start Near	180.000	usec	35.875	8087.000
RAL	FB Start Radial	180.000	usec	35.875	8087.000
RAL	FB Thresh Far	10.000	m v	35.875	8087.000
RAL	FB Thresh Near	4.000	m v	35.875	8087.000
RAL	FB Thresh Radial	4.000	m v	35.875	8087.000
RAL	Fluid Travel Time	200.000	usec/ft	35.875	8086.937

### 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

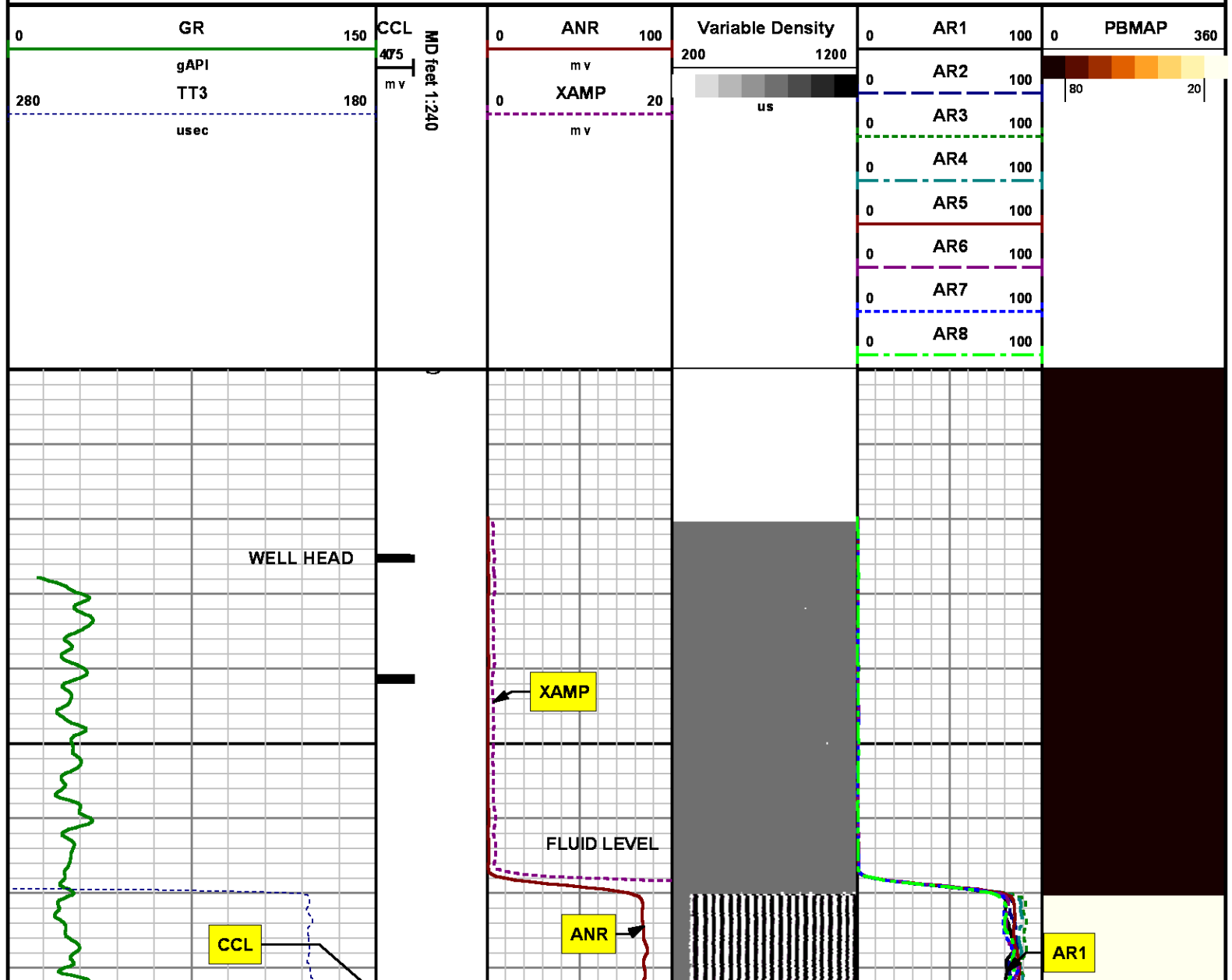
Well : WPX ENERGY PA 343-3

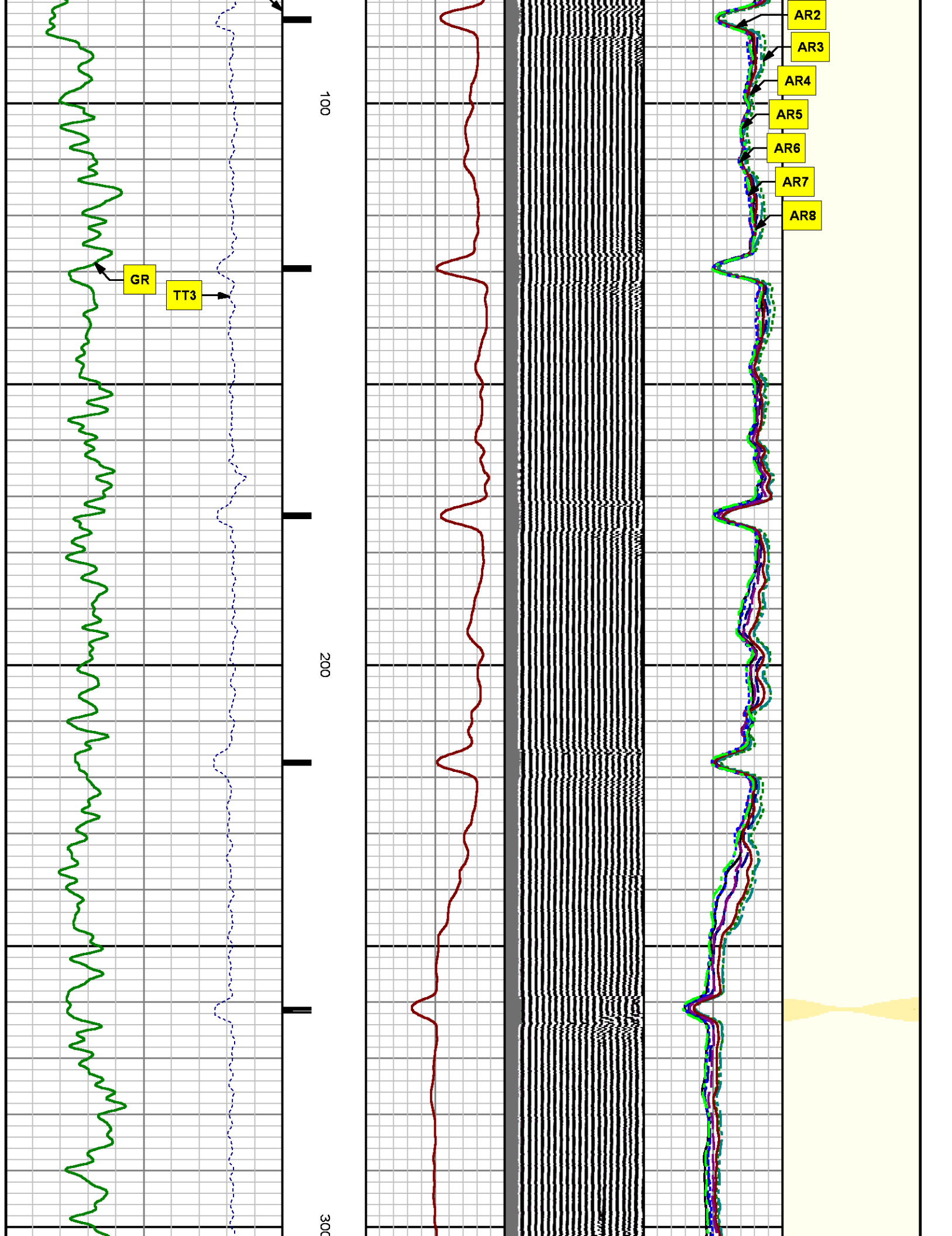
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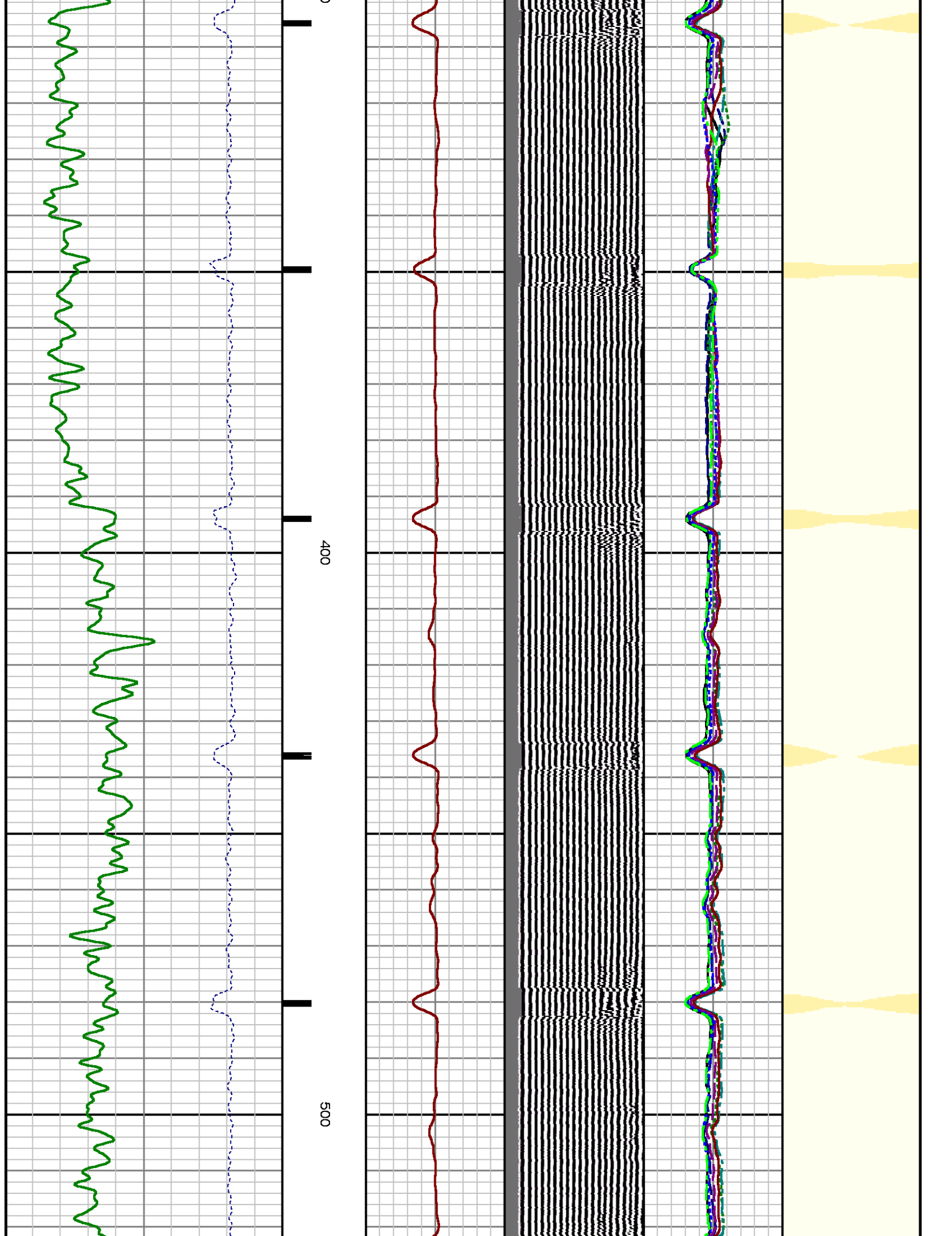
Mode : PlotMgr 5.4.504

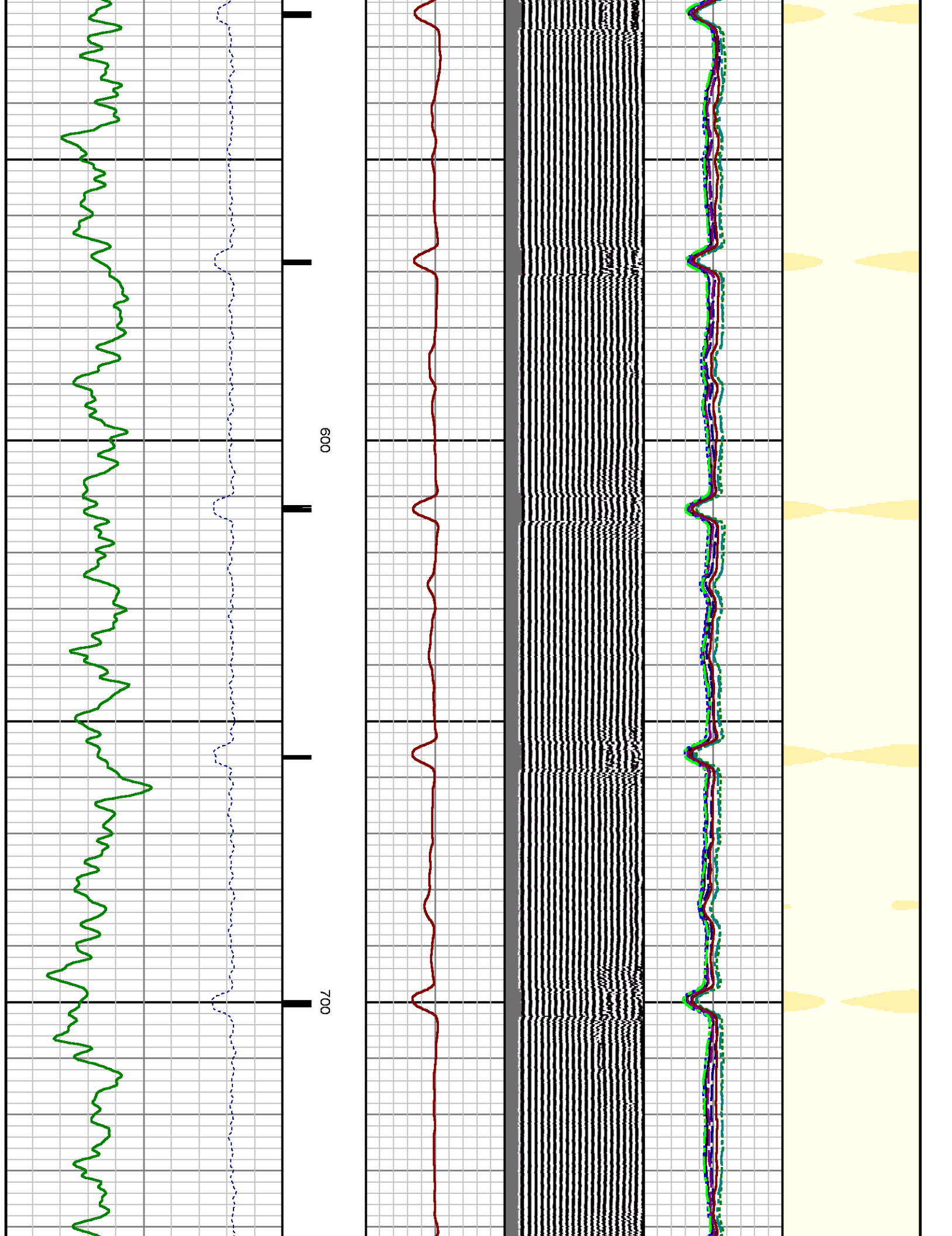
Interval : 0.00 - 8087.00 feet UP

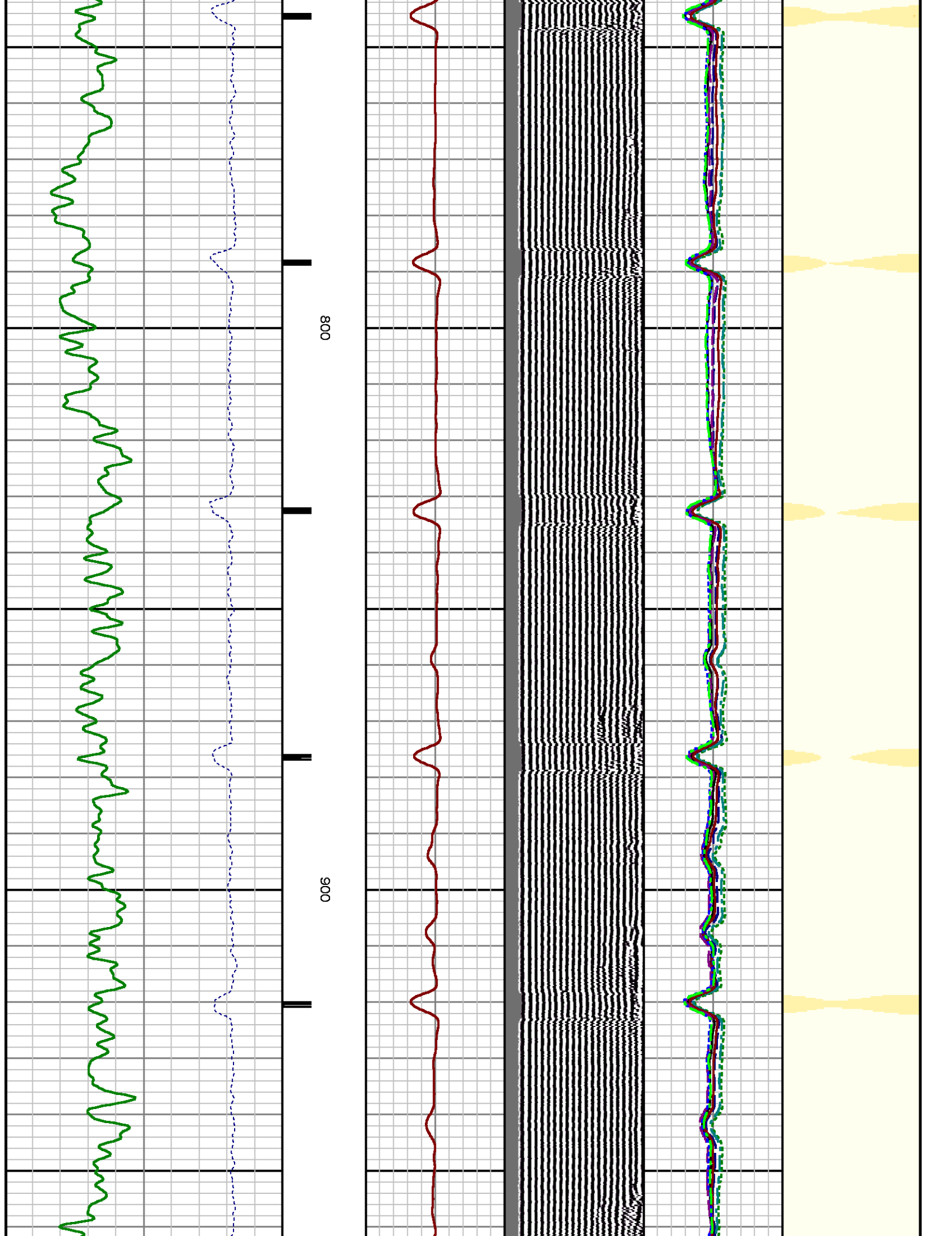
Created : 6/8/2014 8:24:54 AM

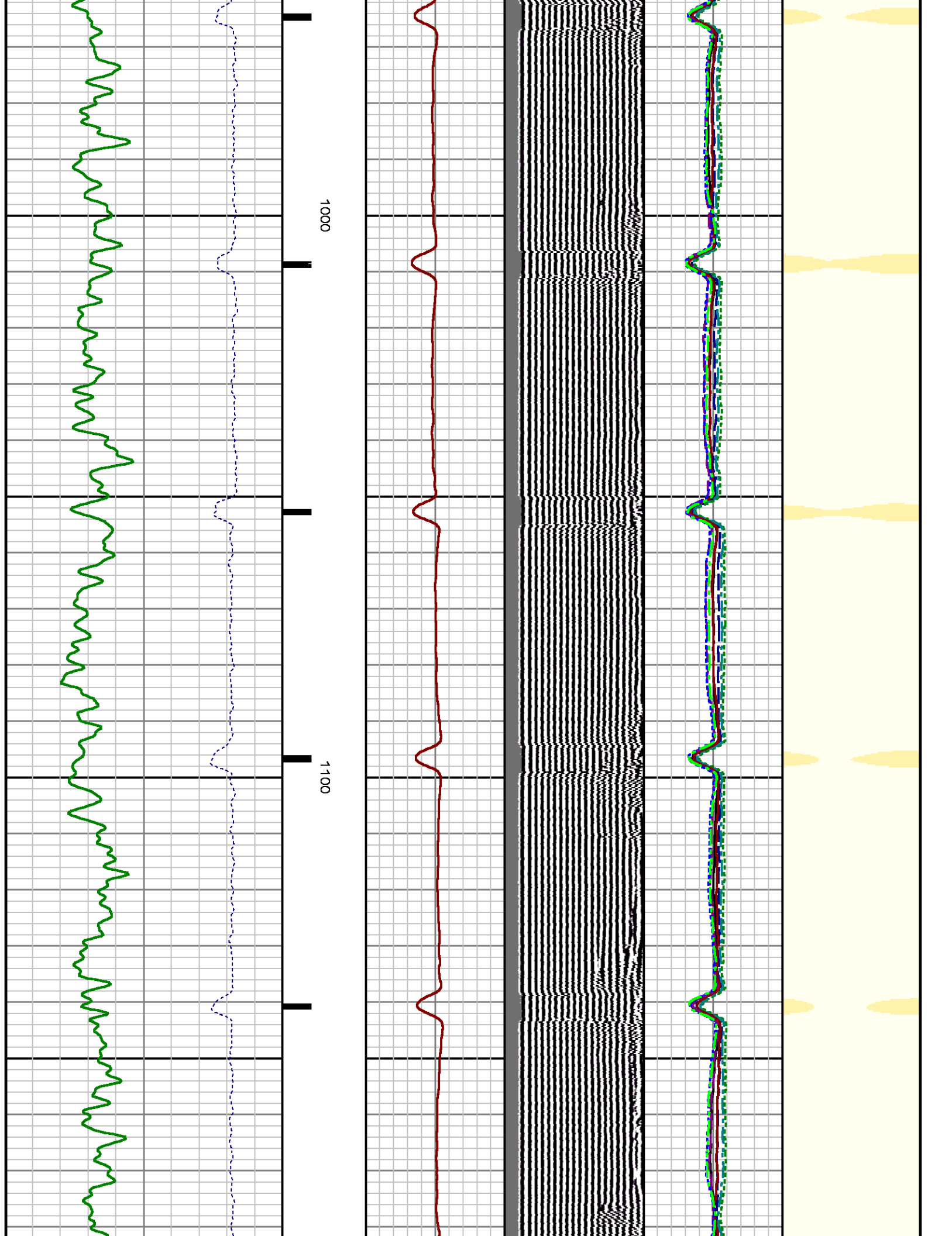


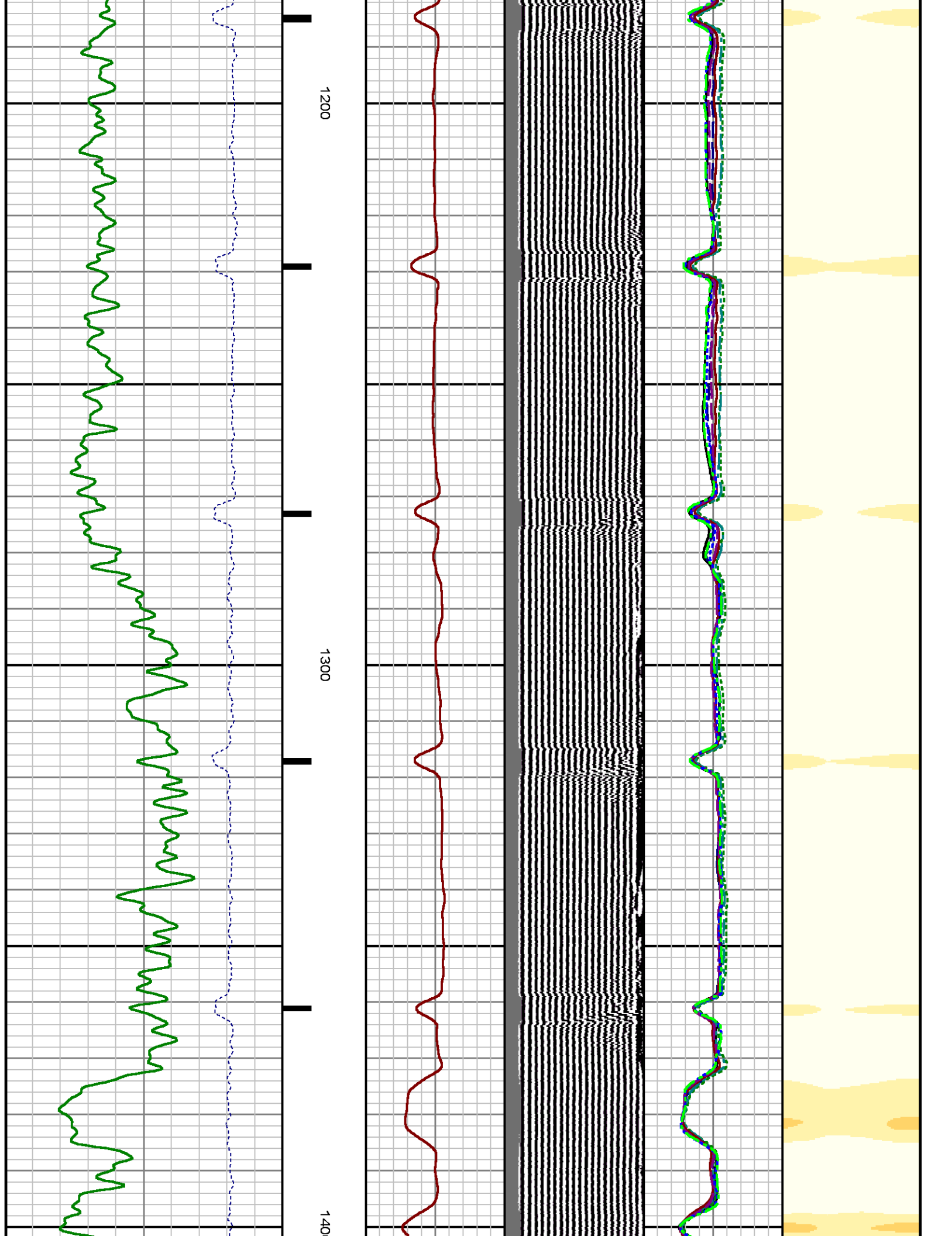


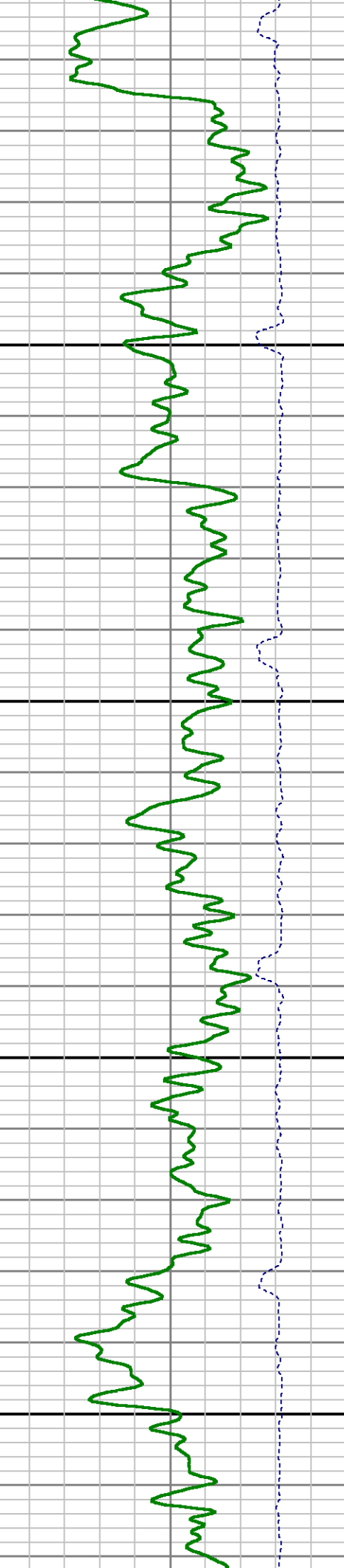
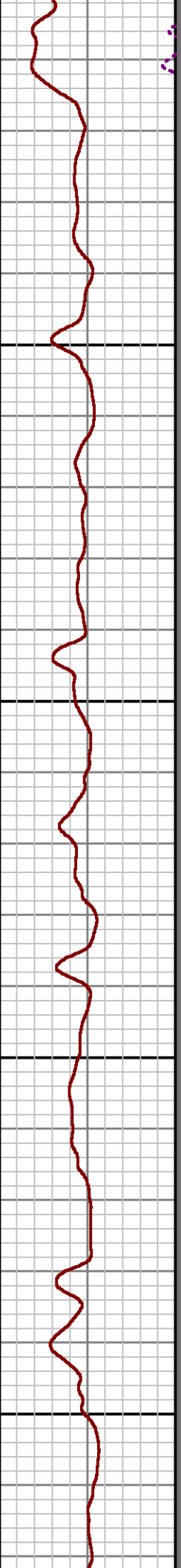
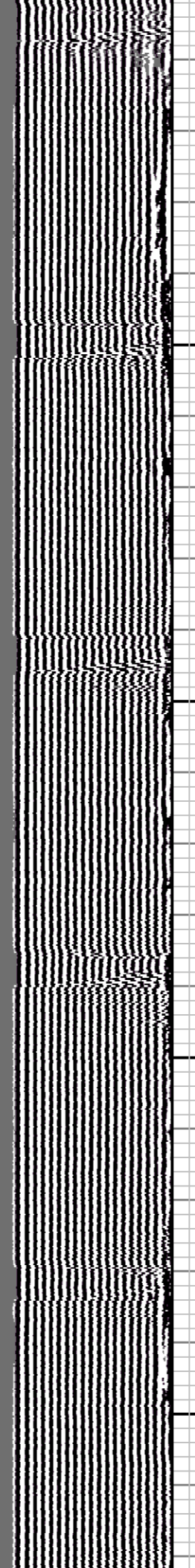
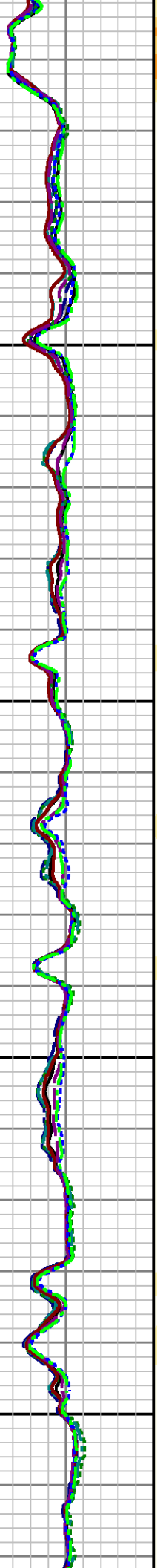


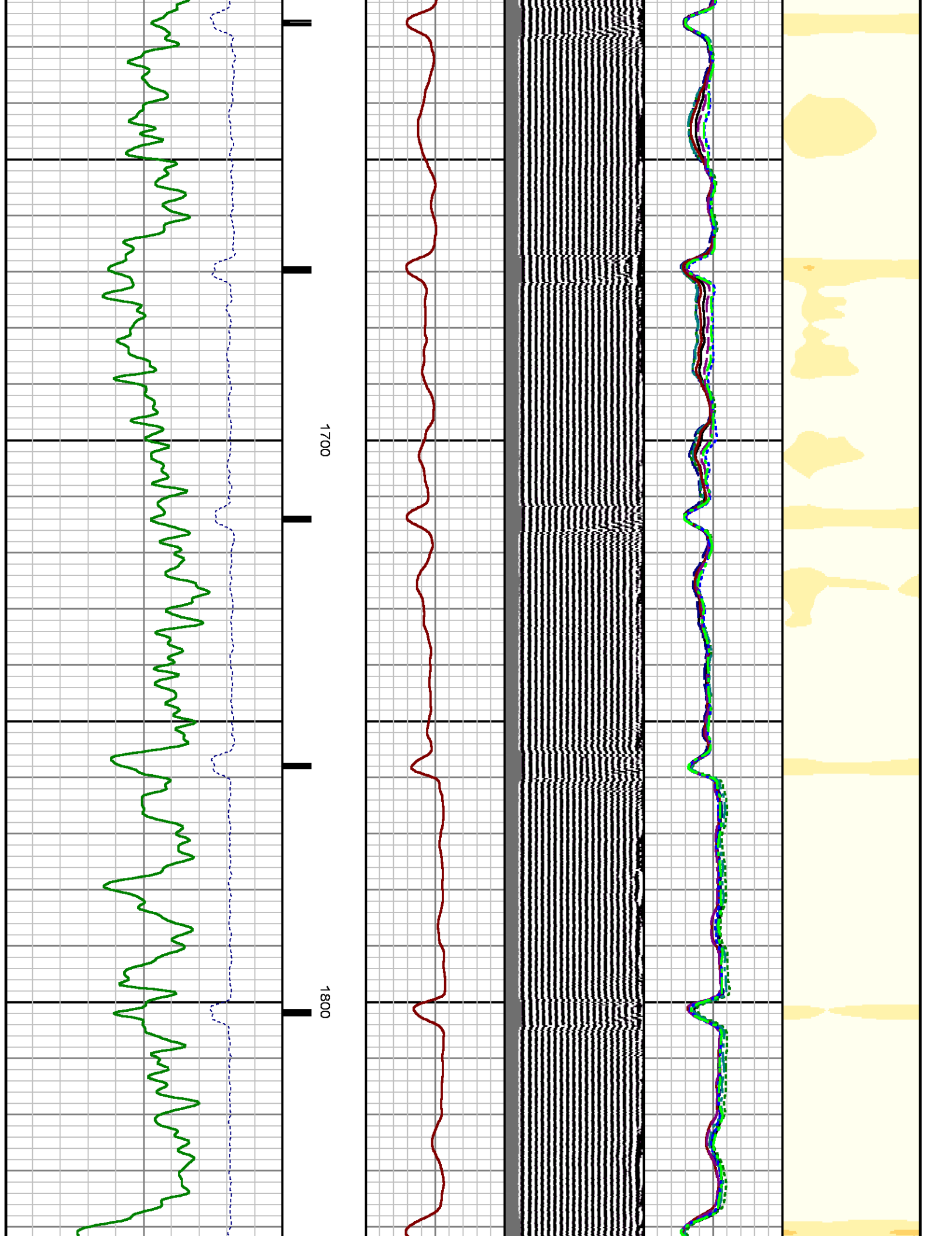


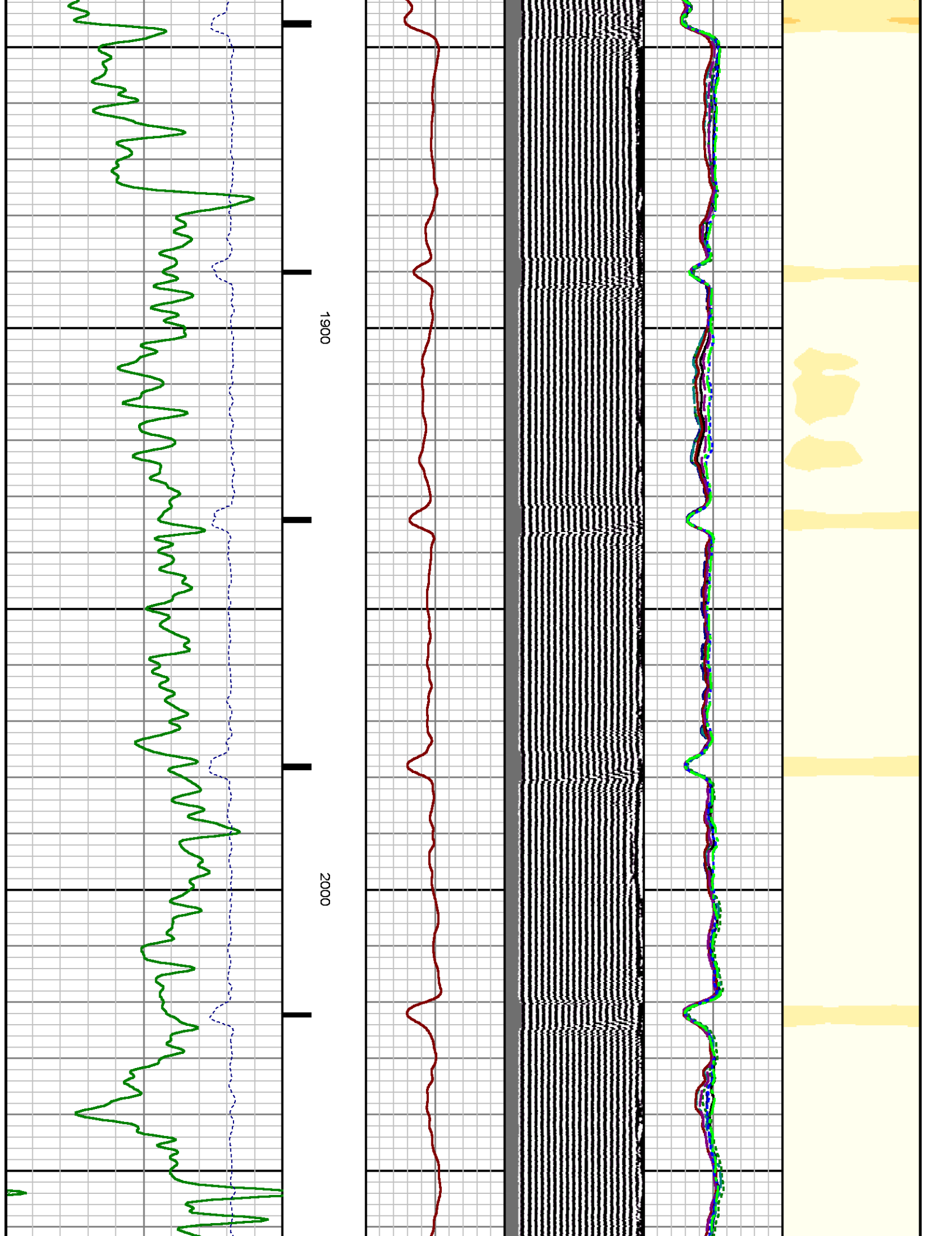


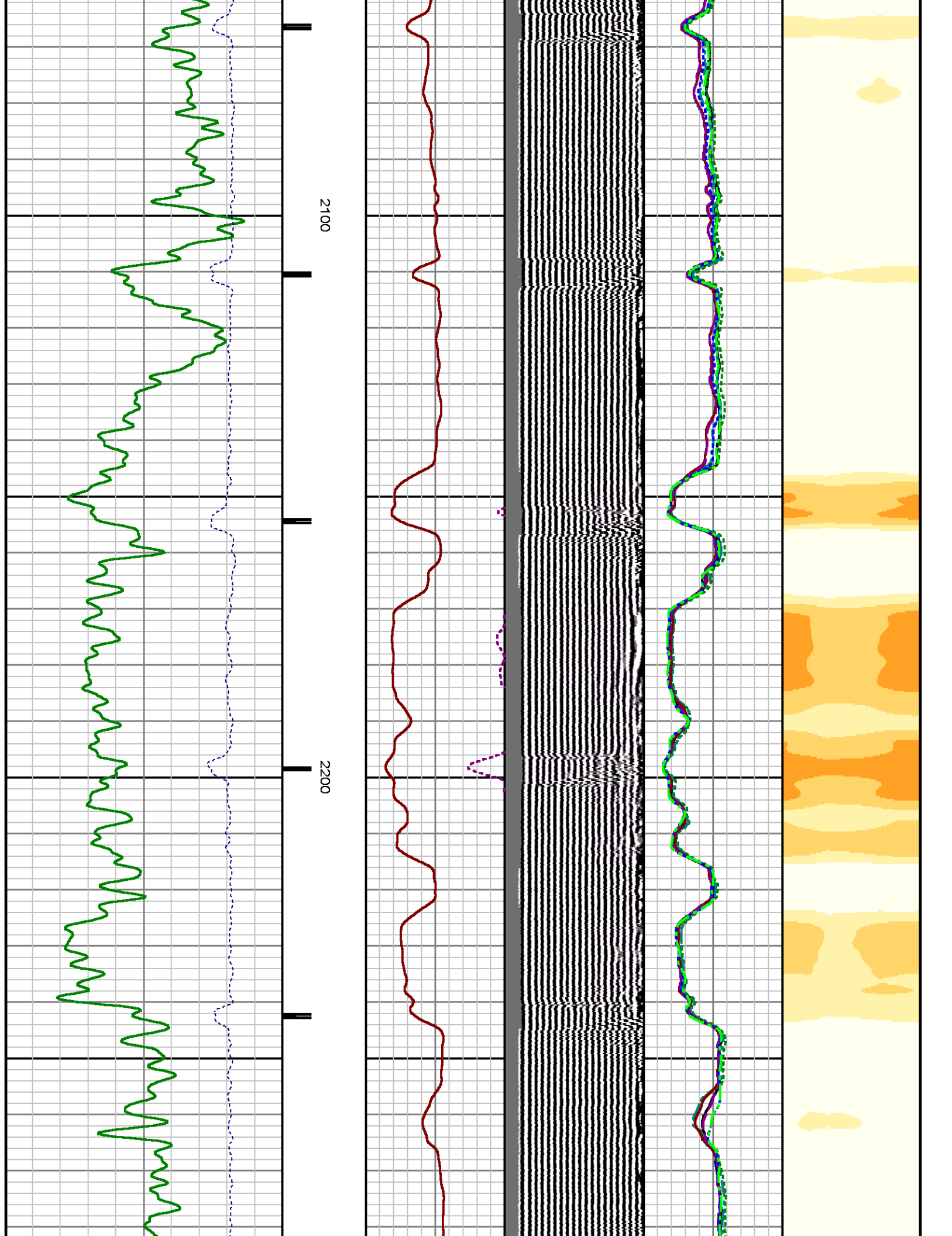


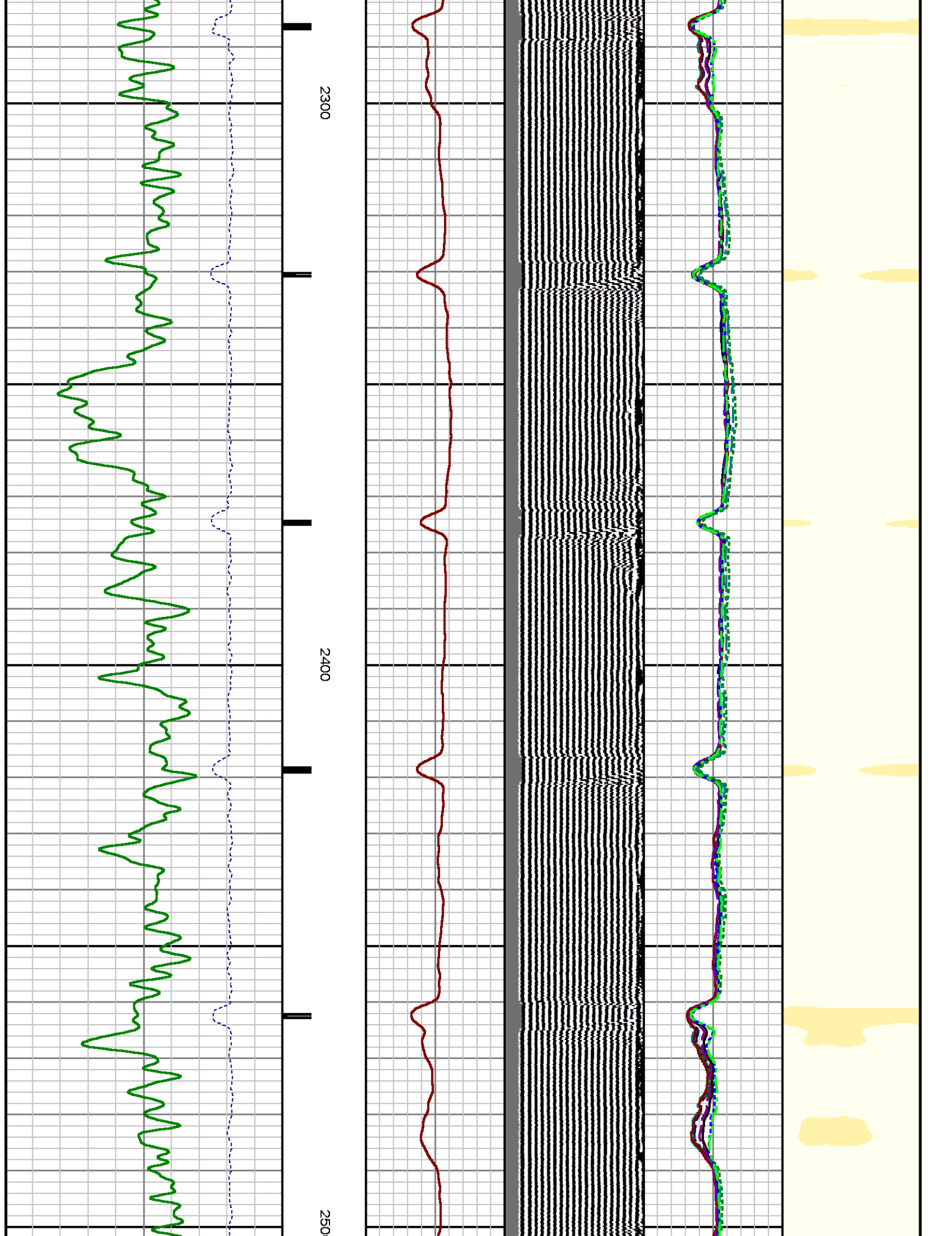


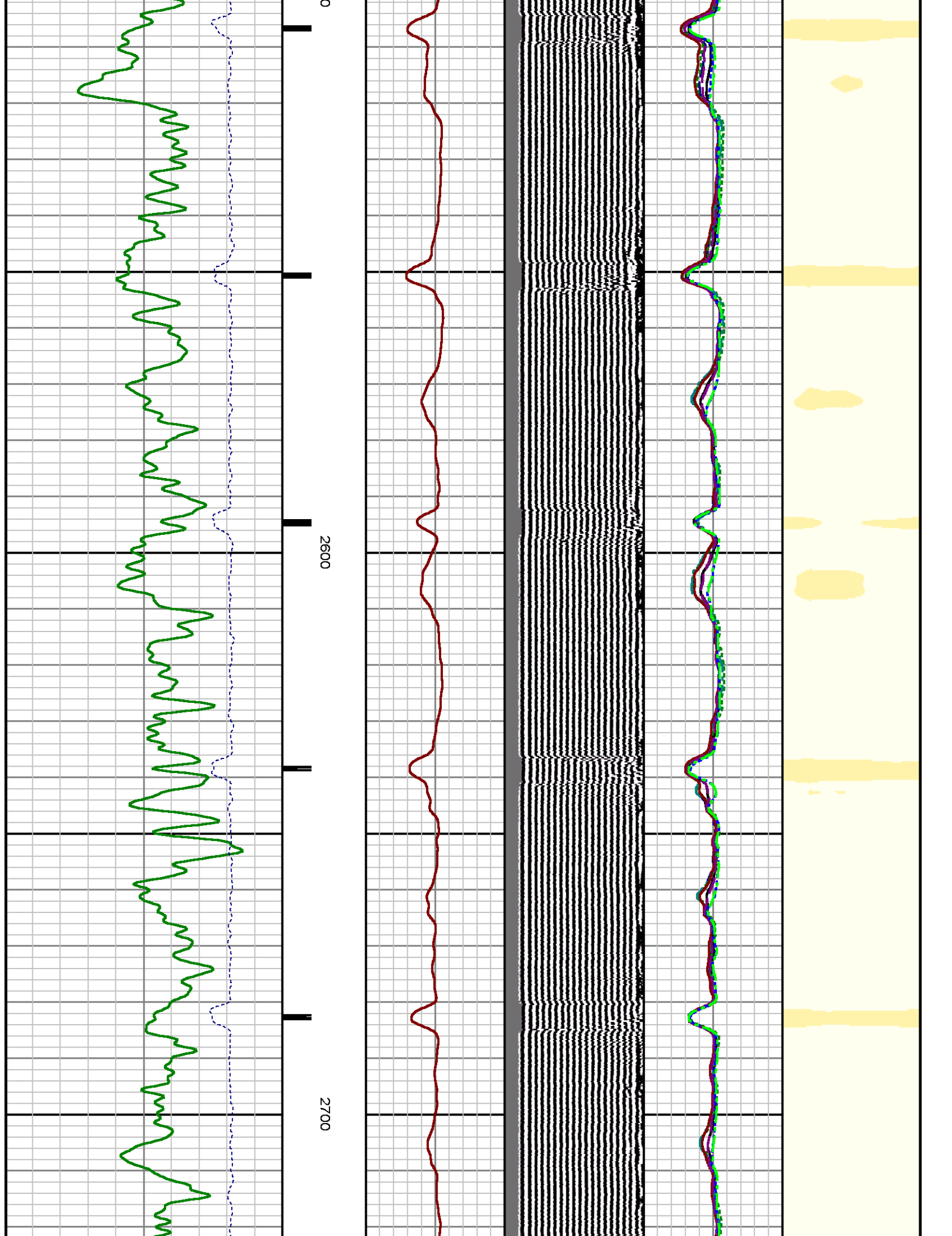




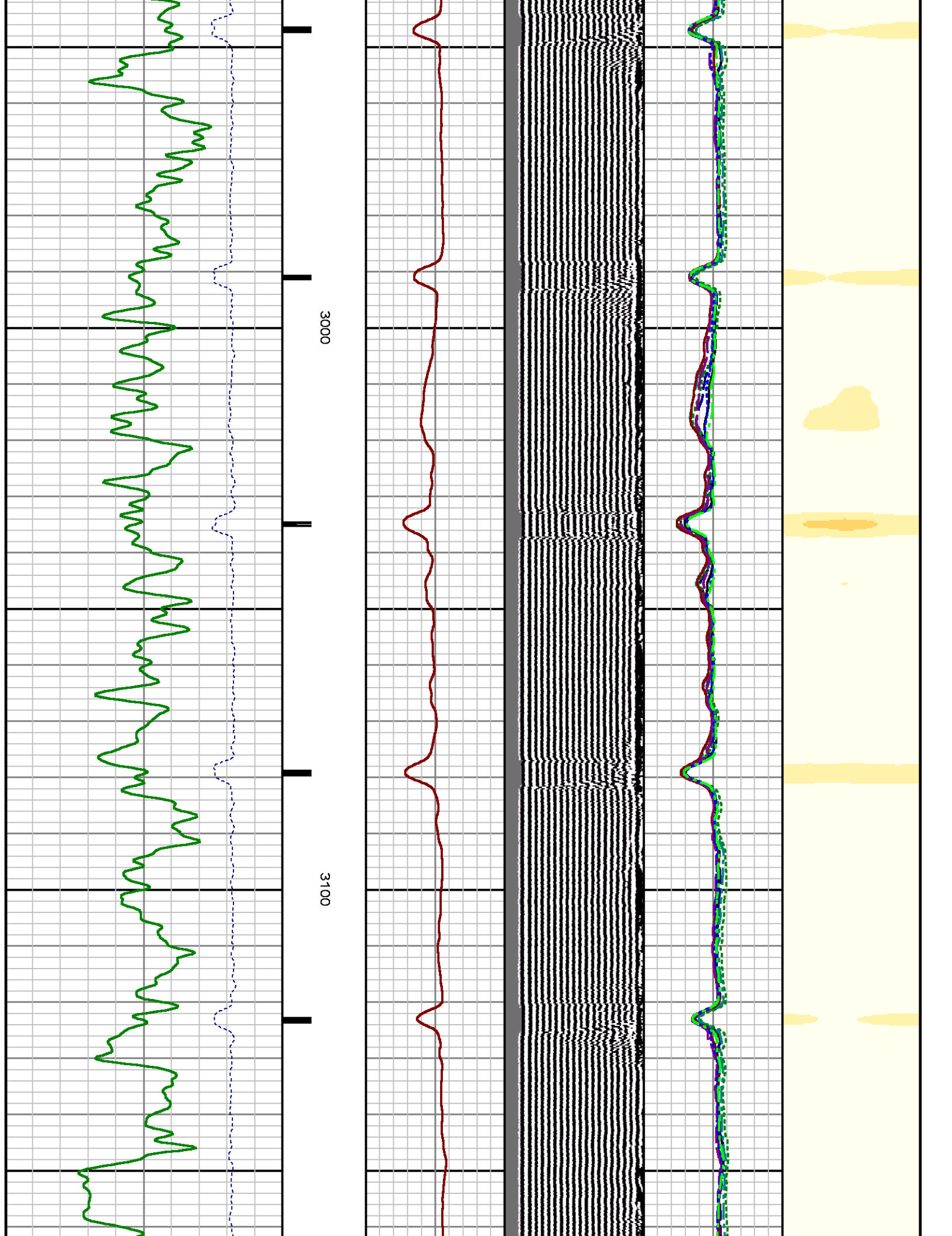


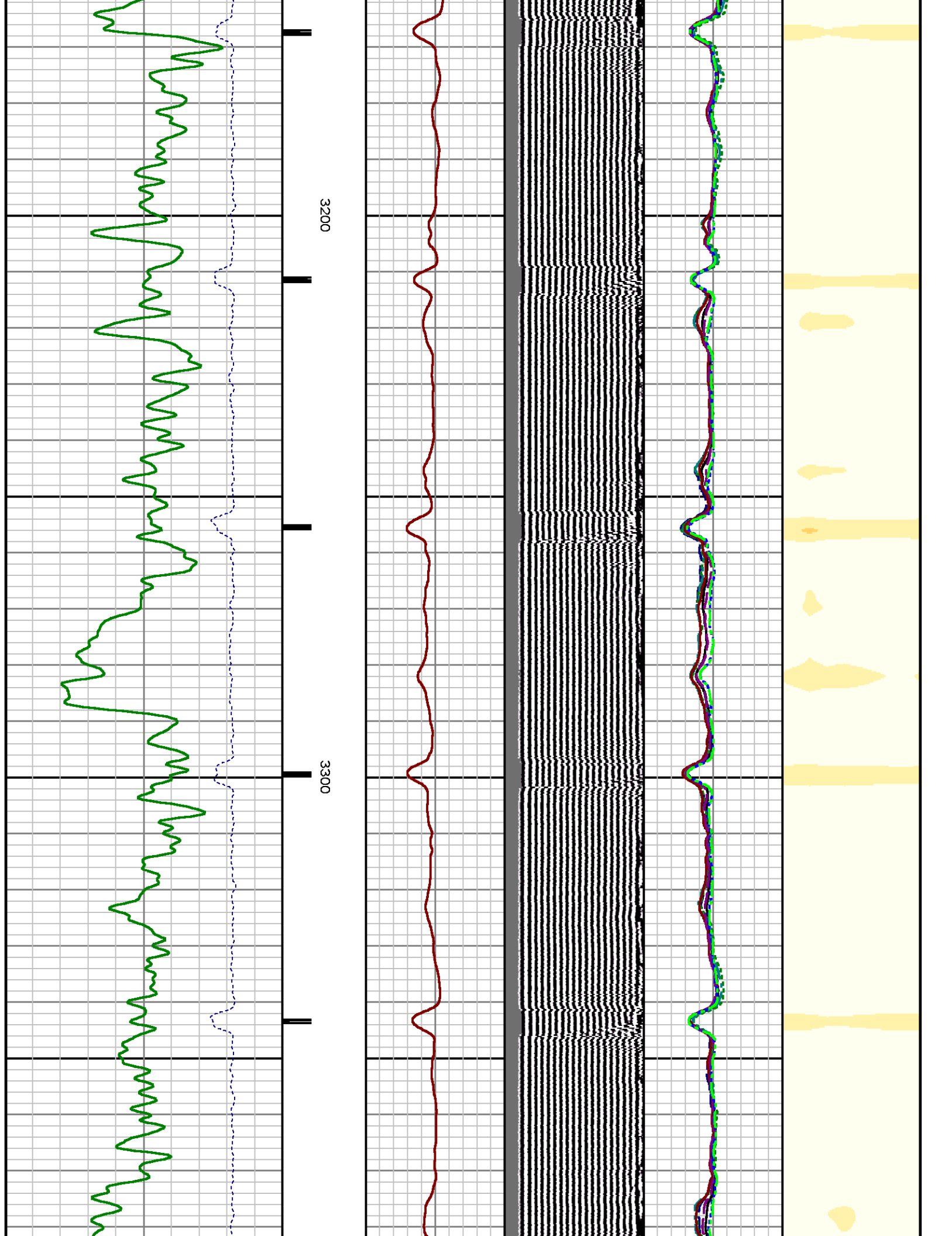


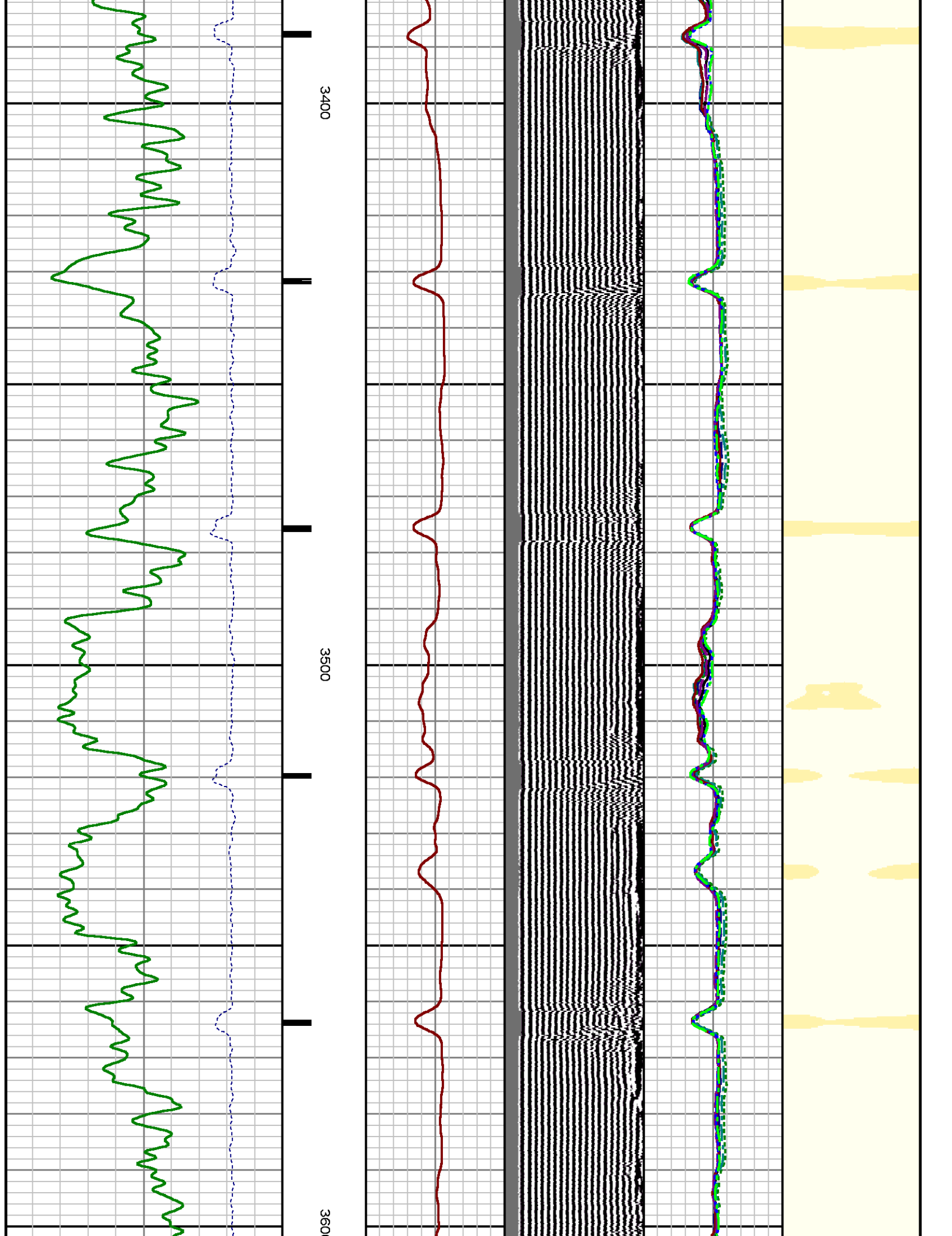


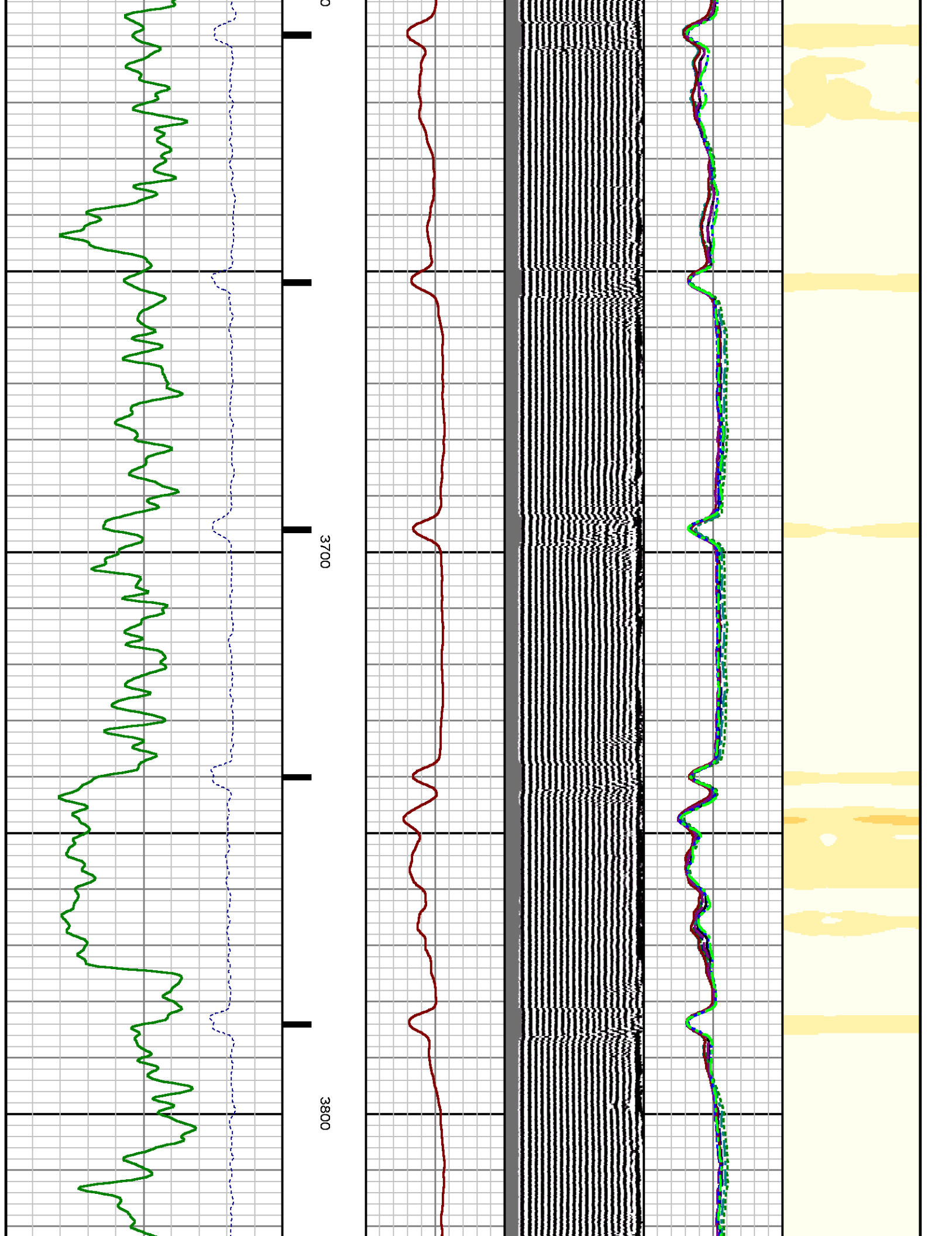


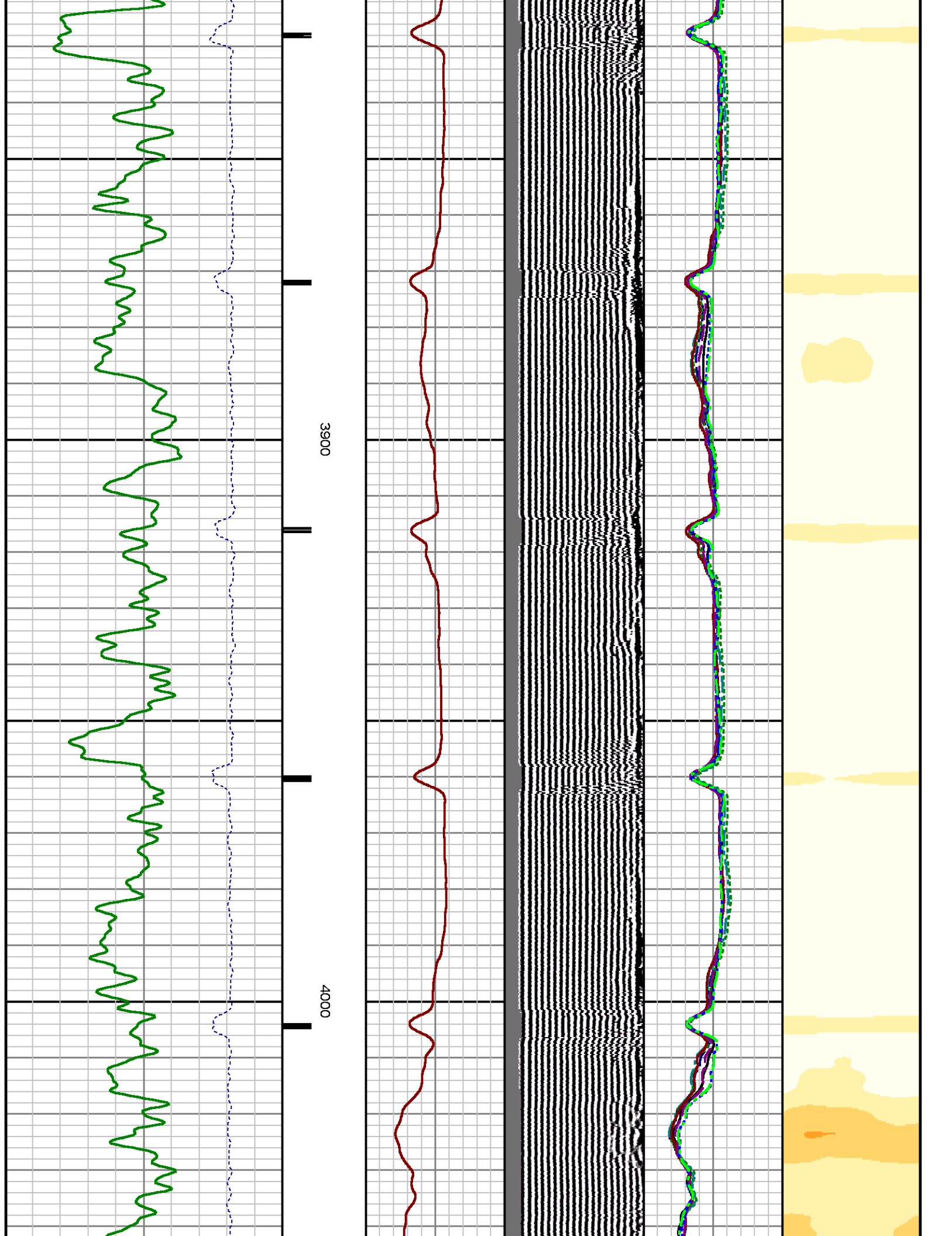


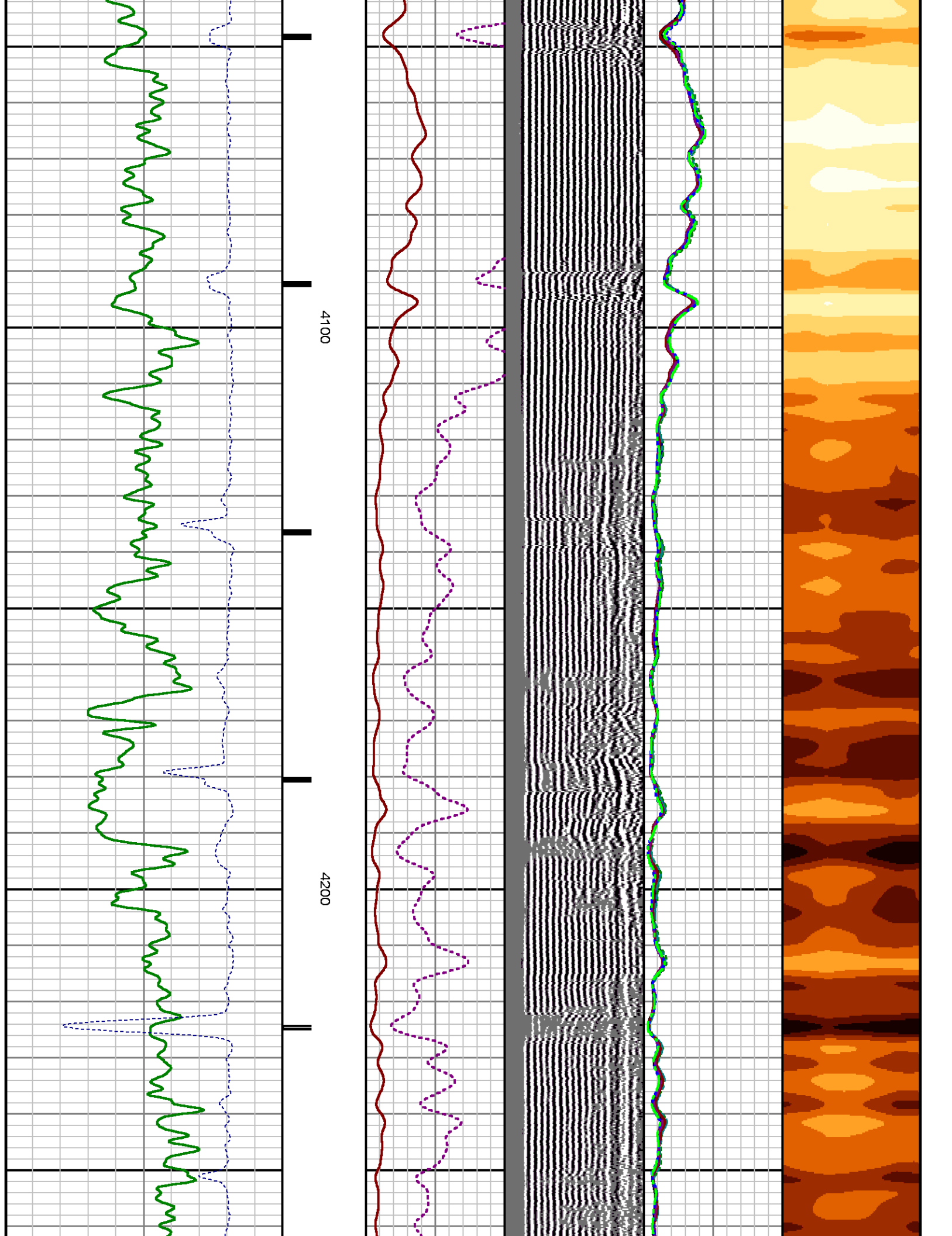


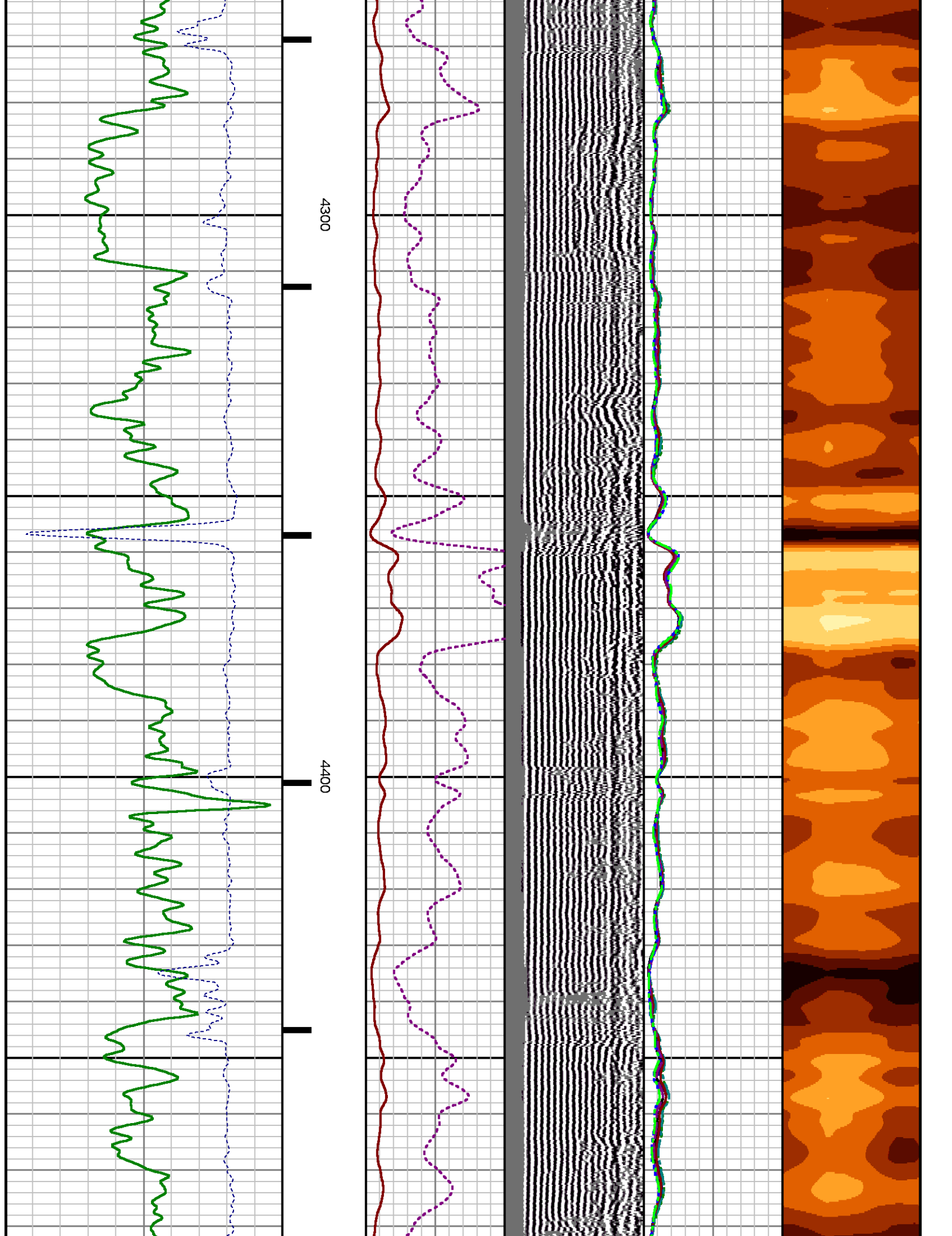


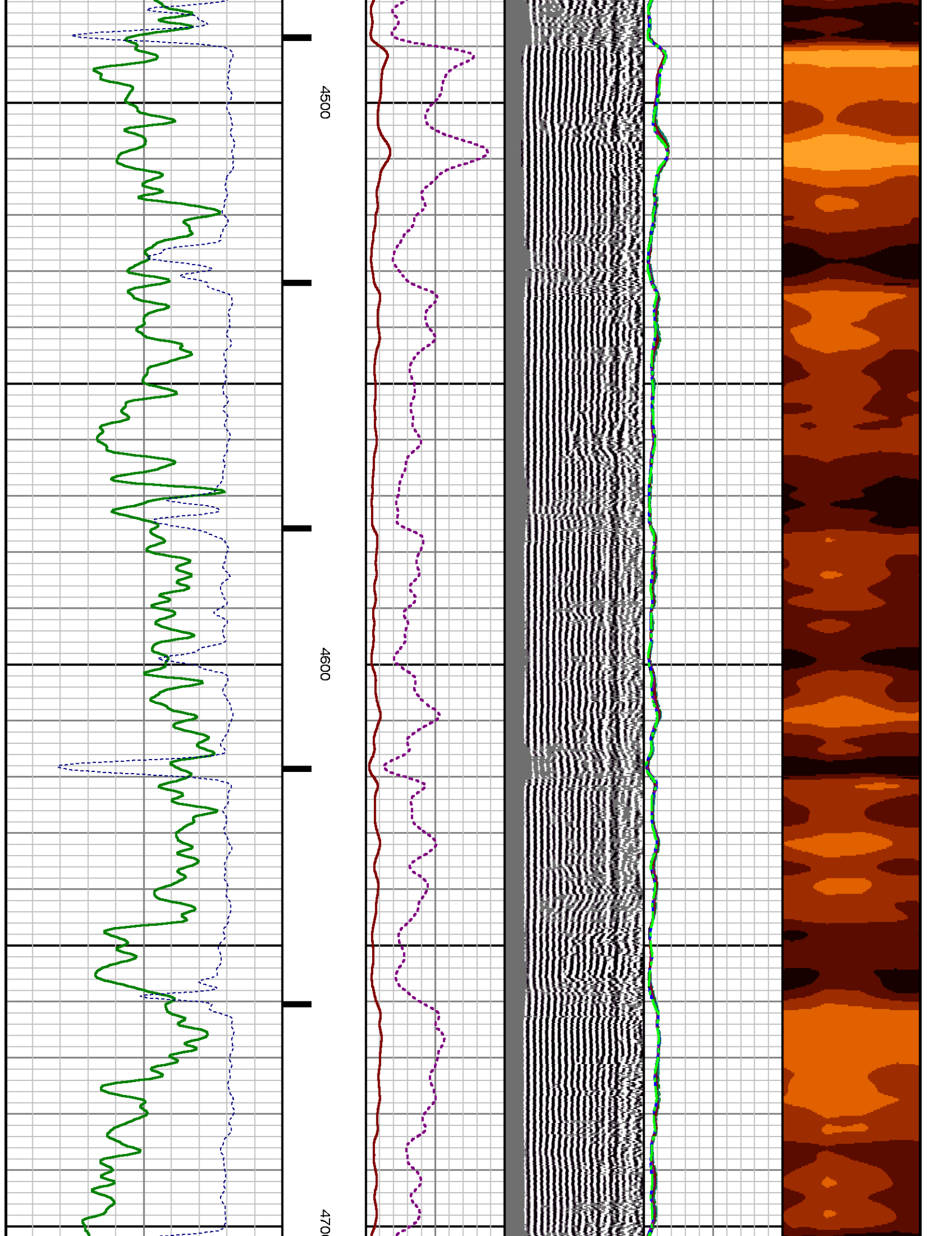


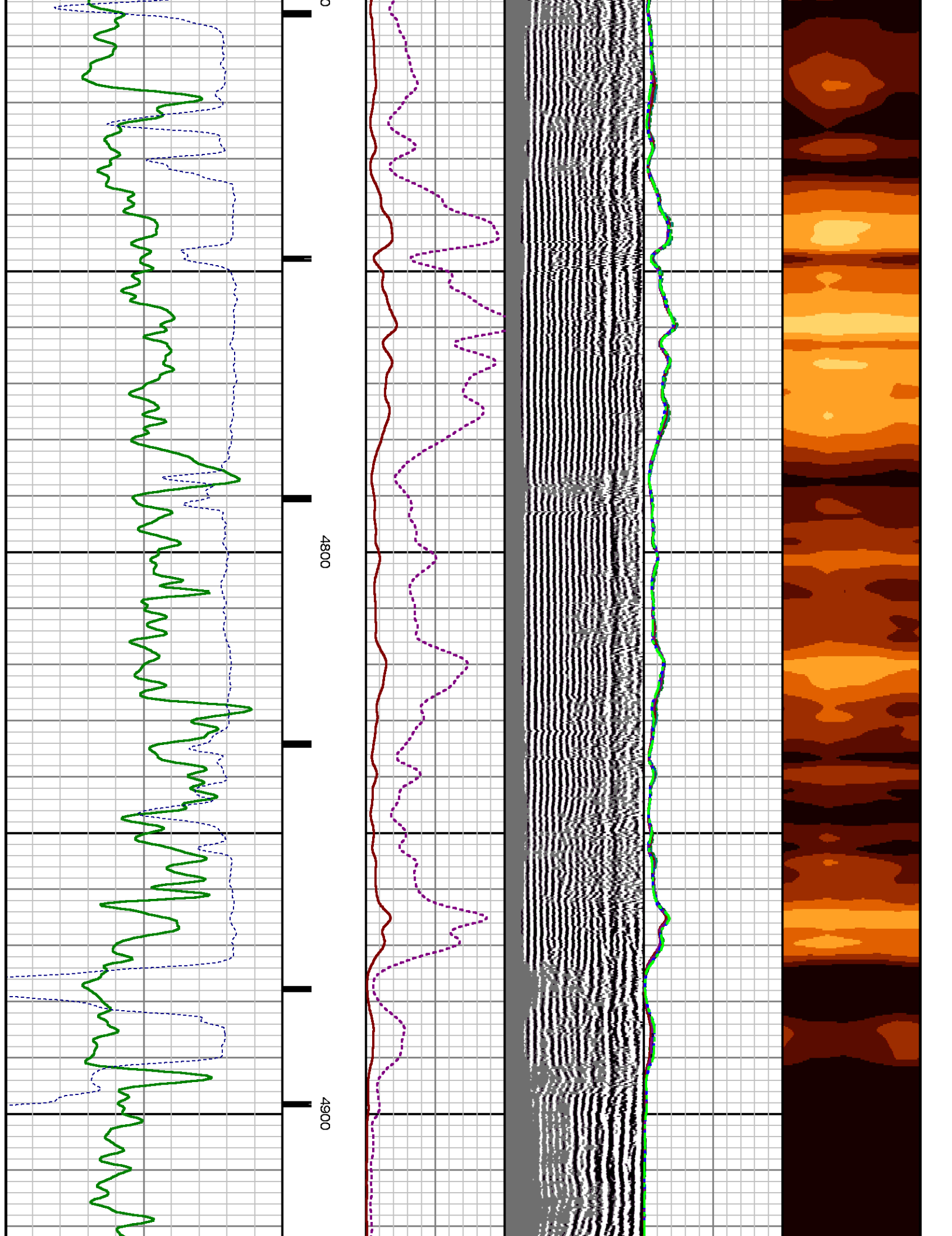


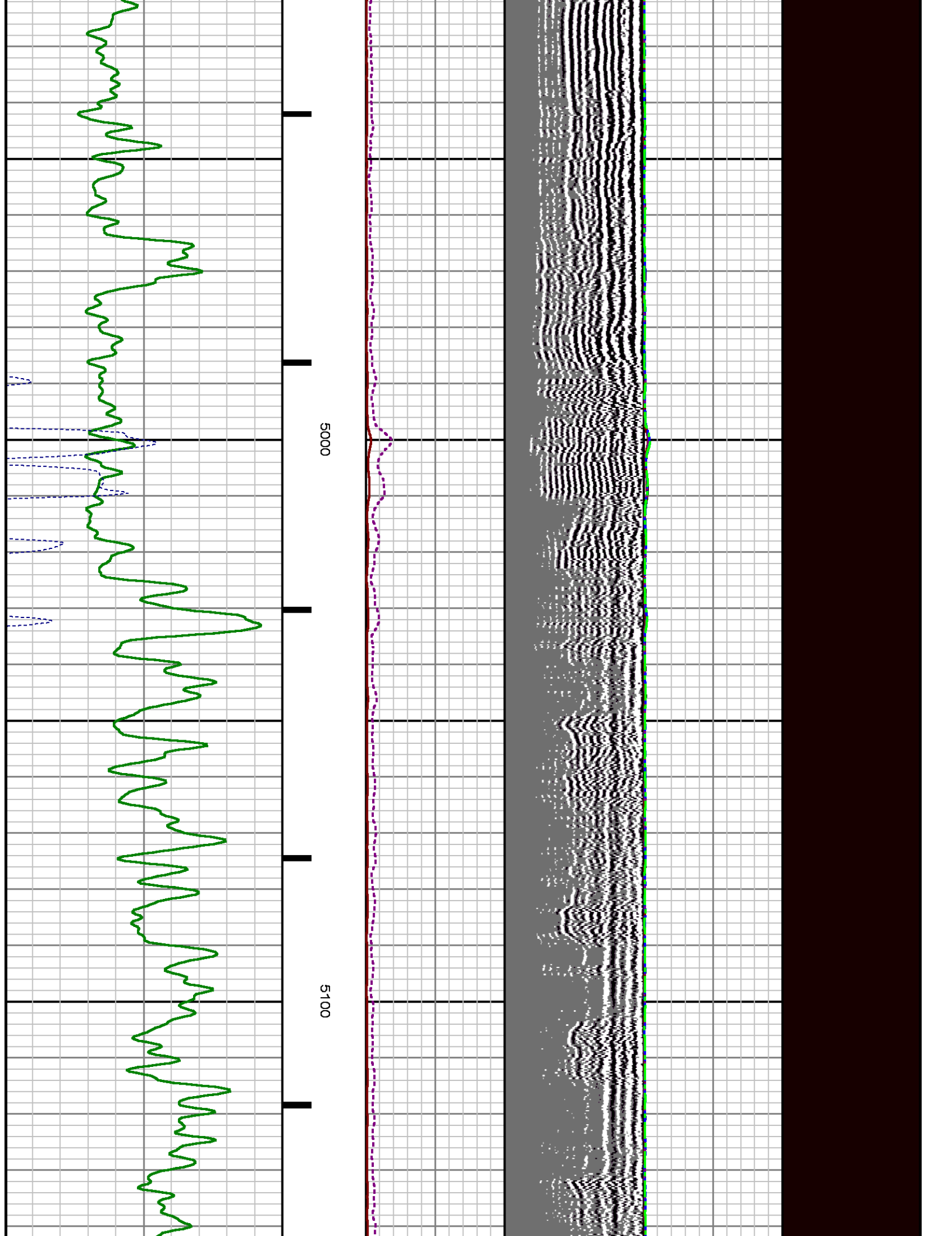


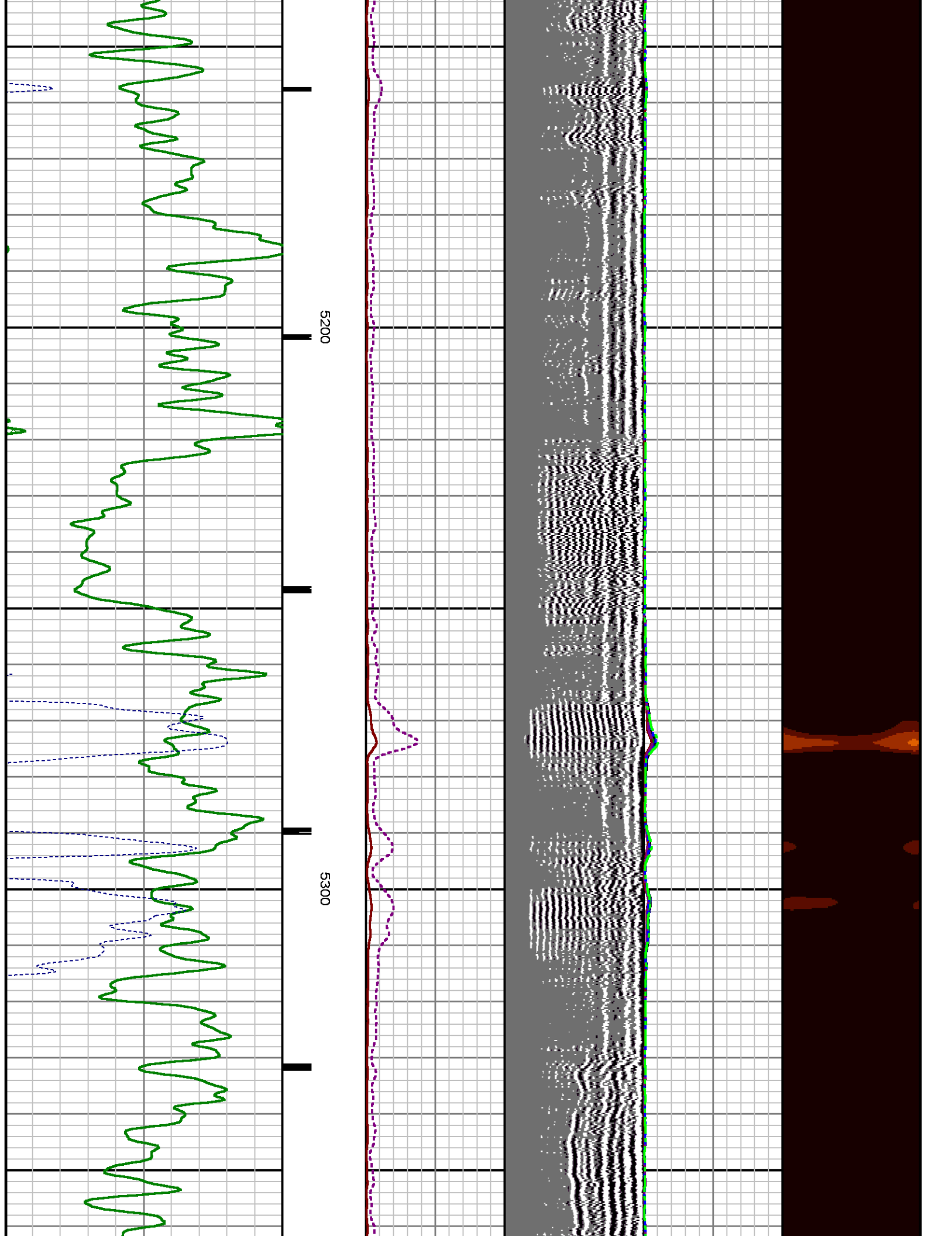


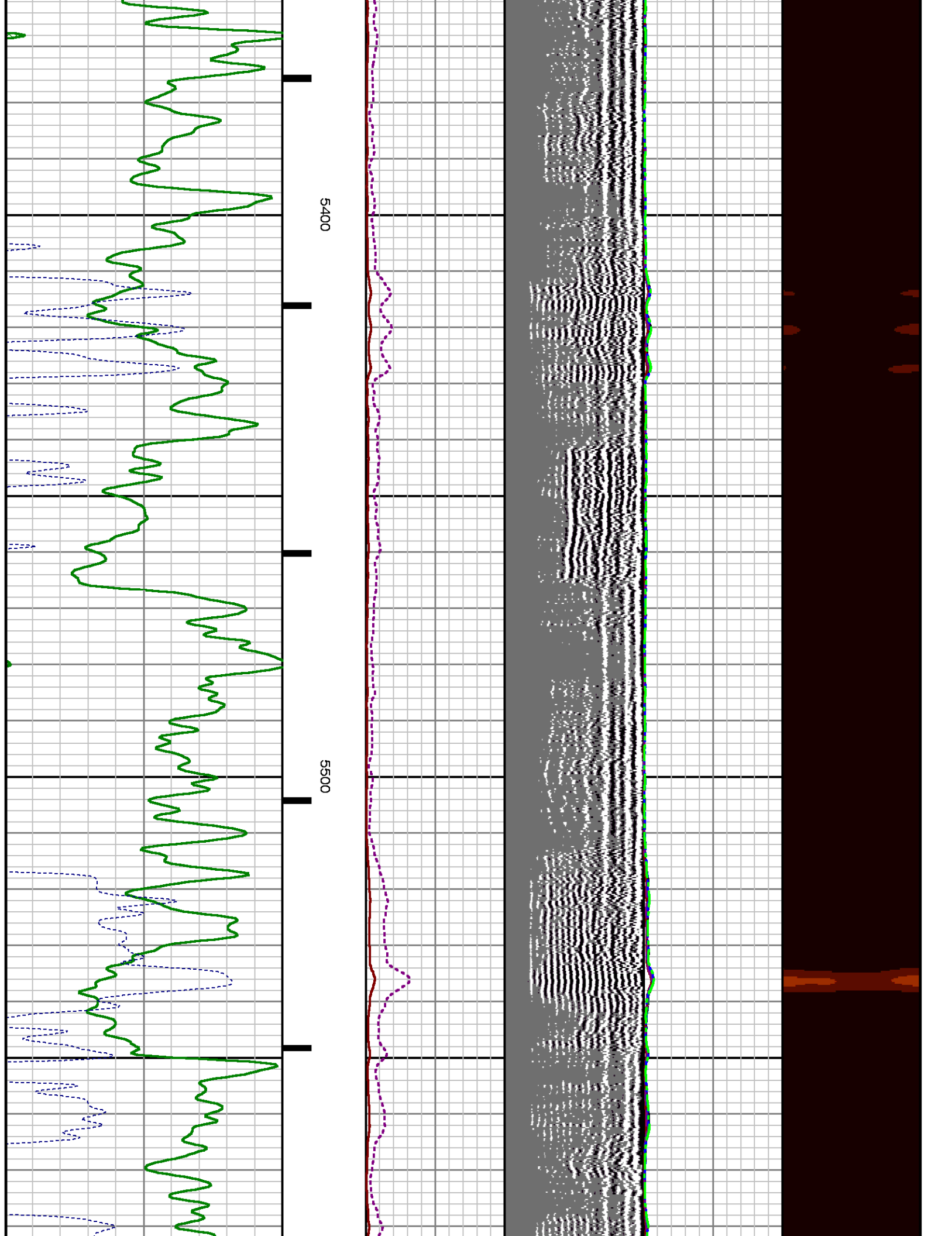


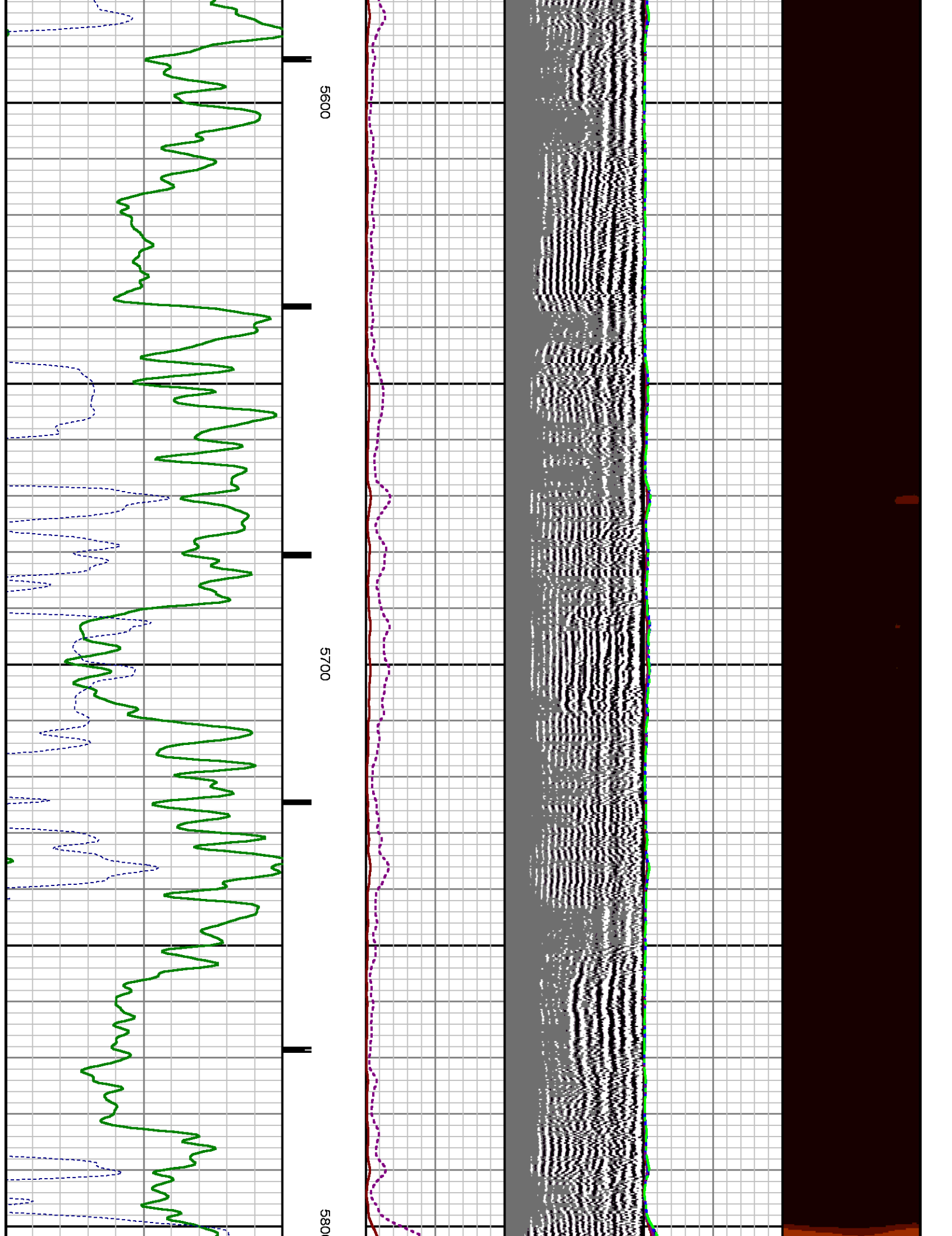


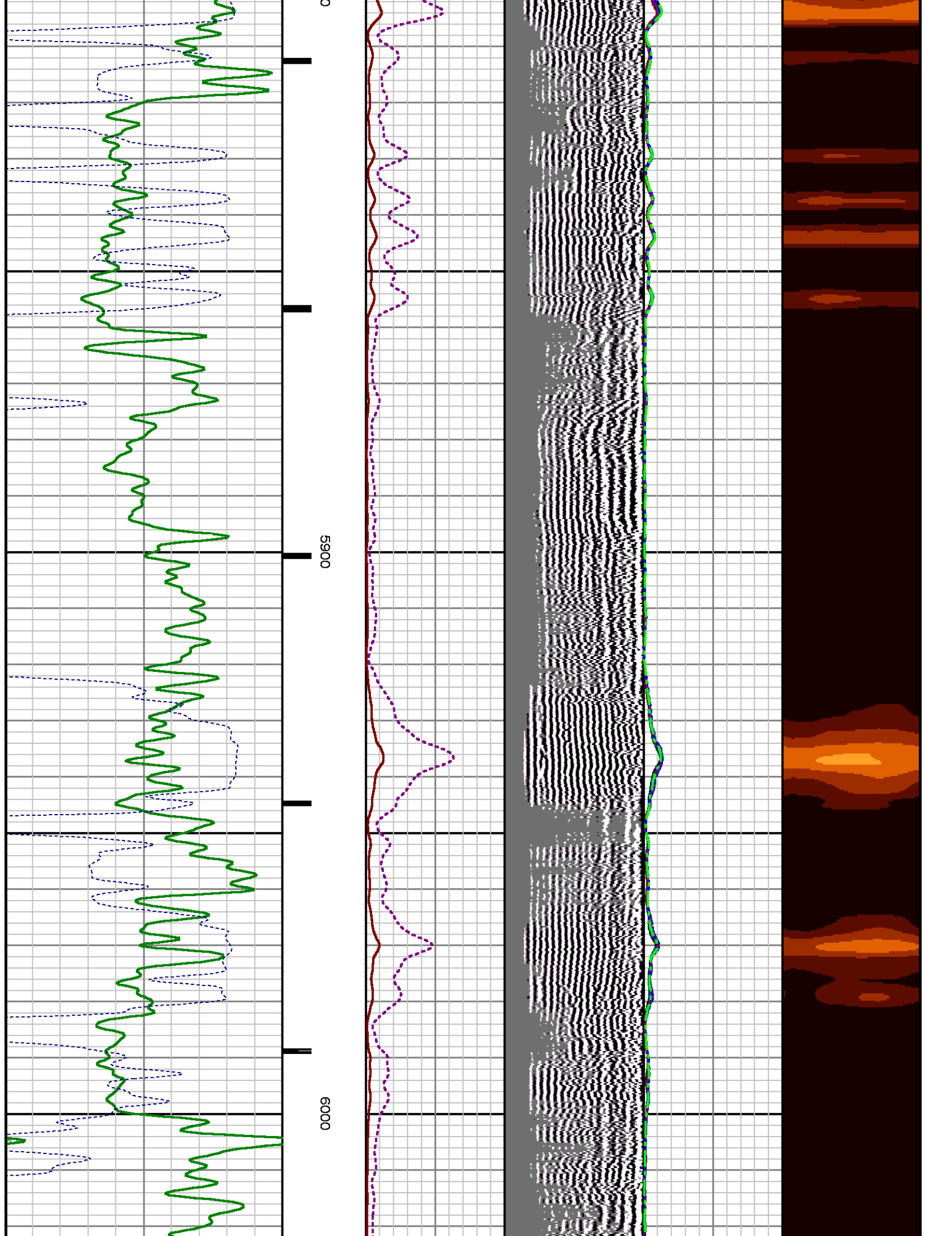


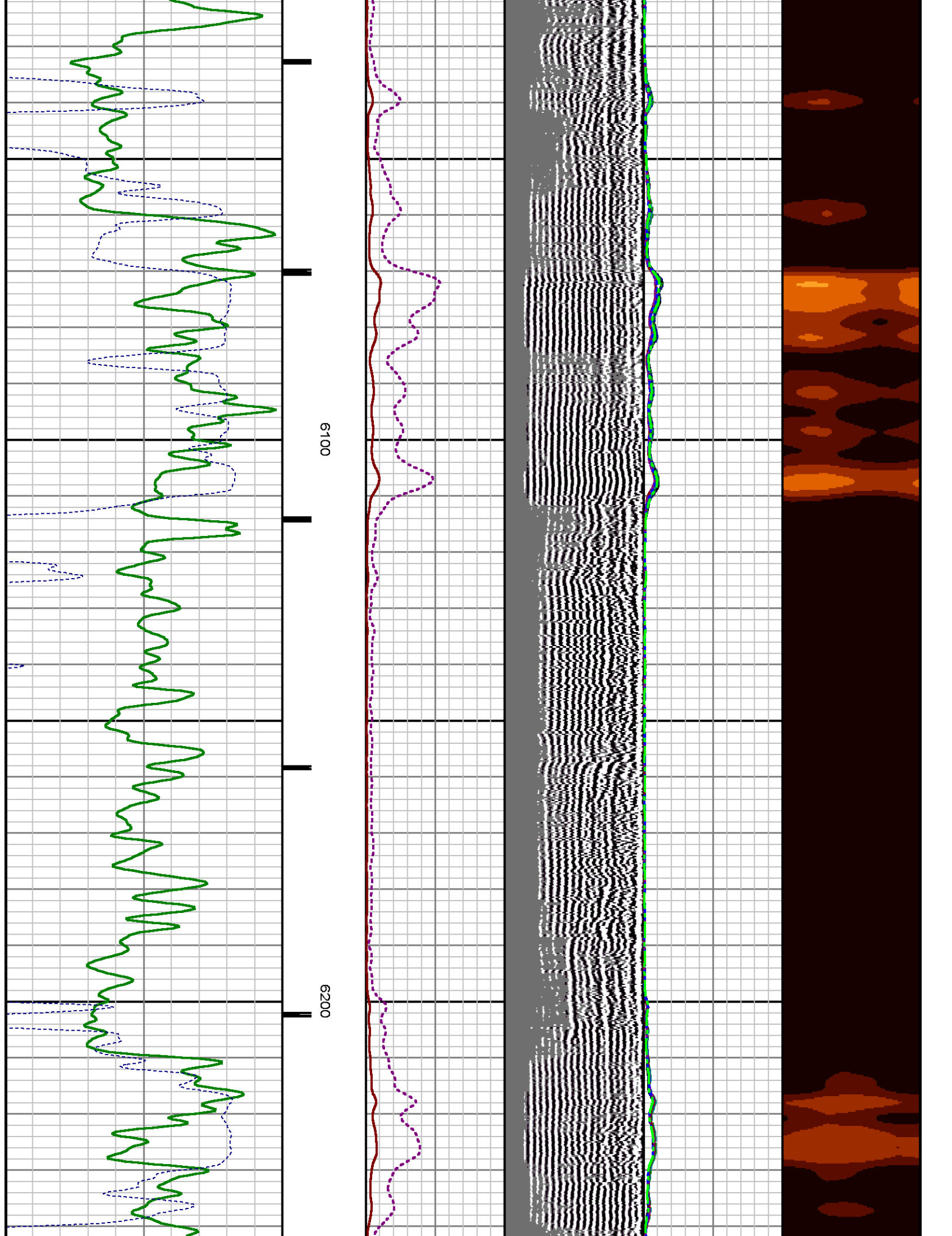


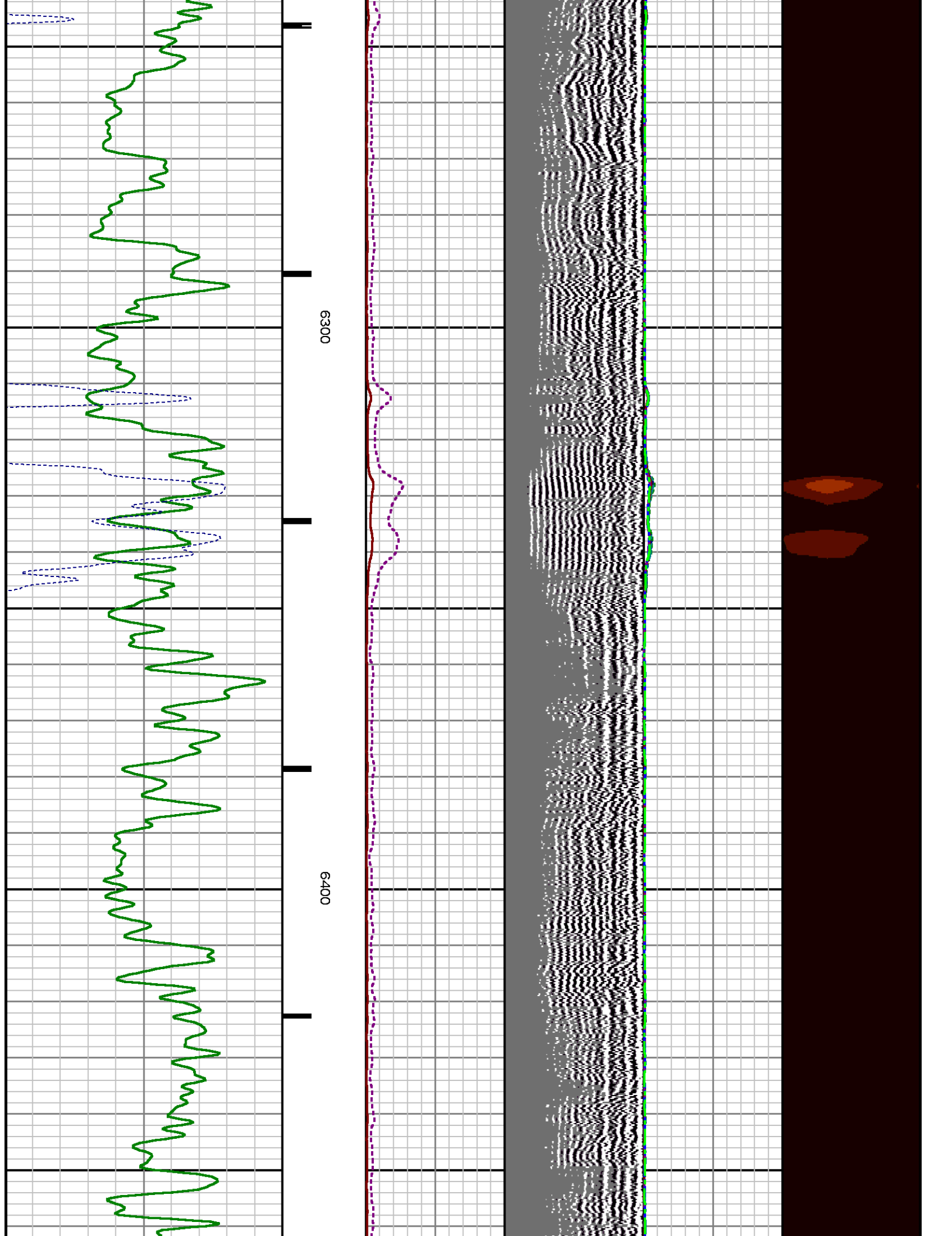


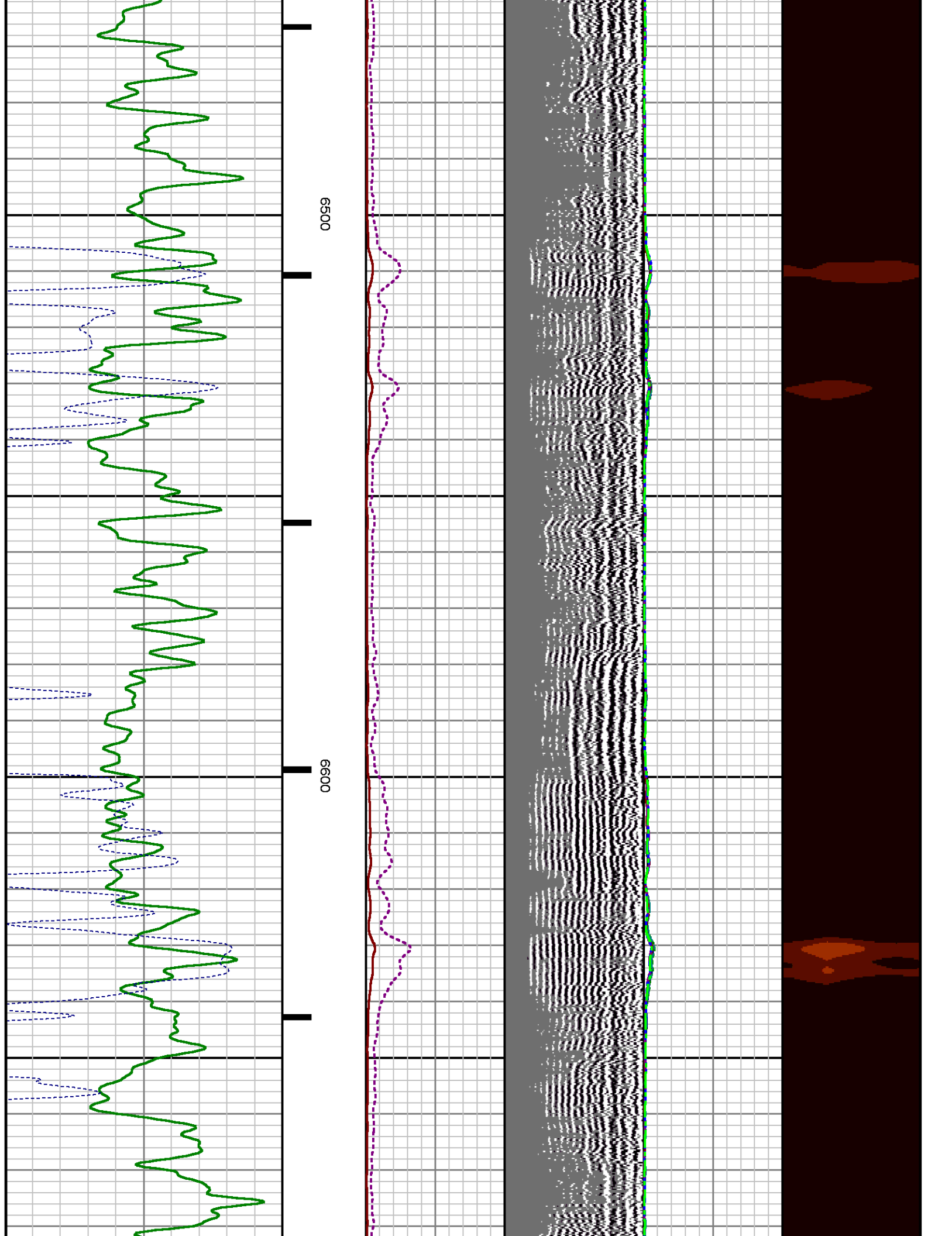


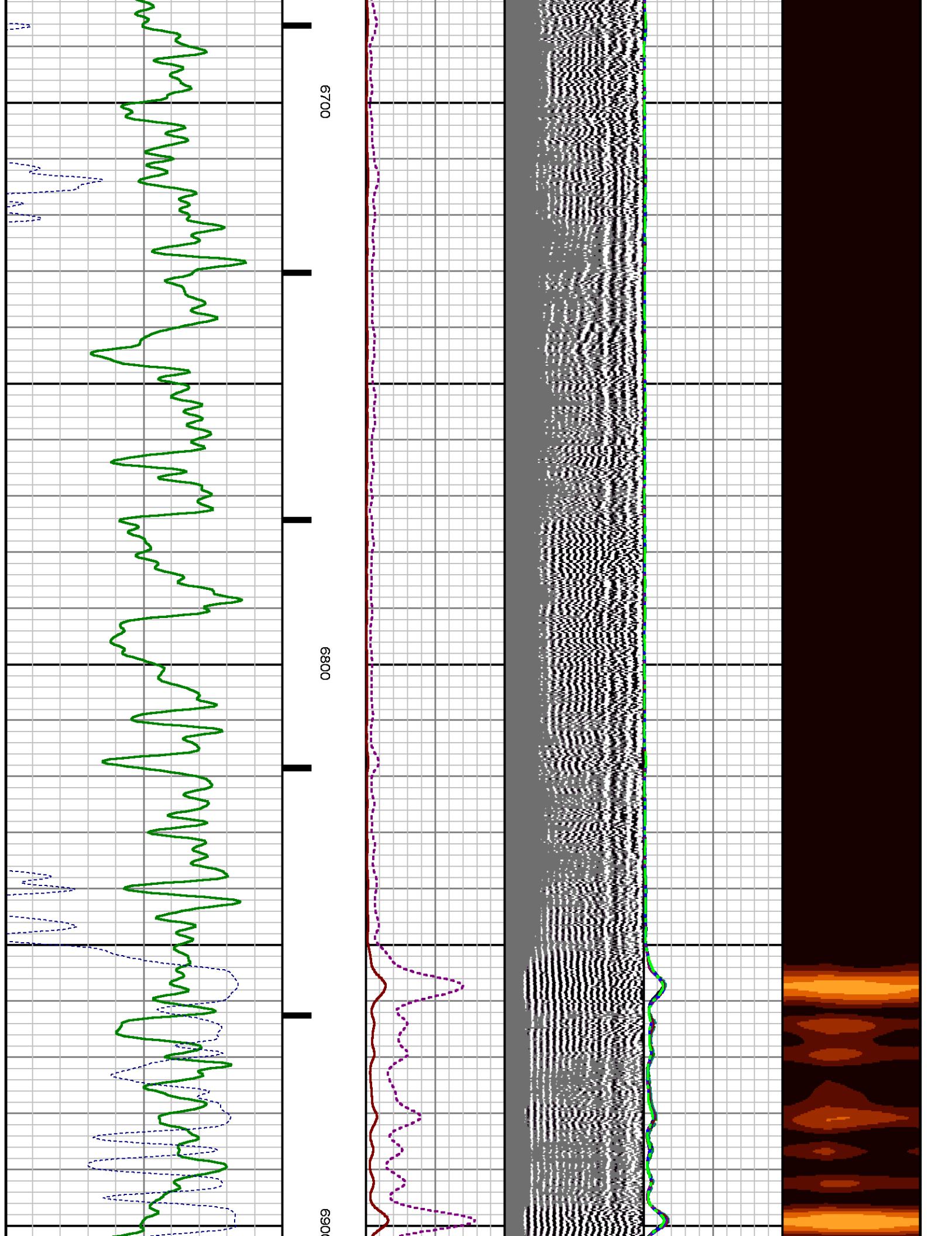


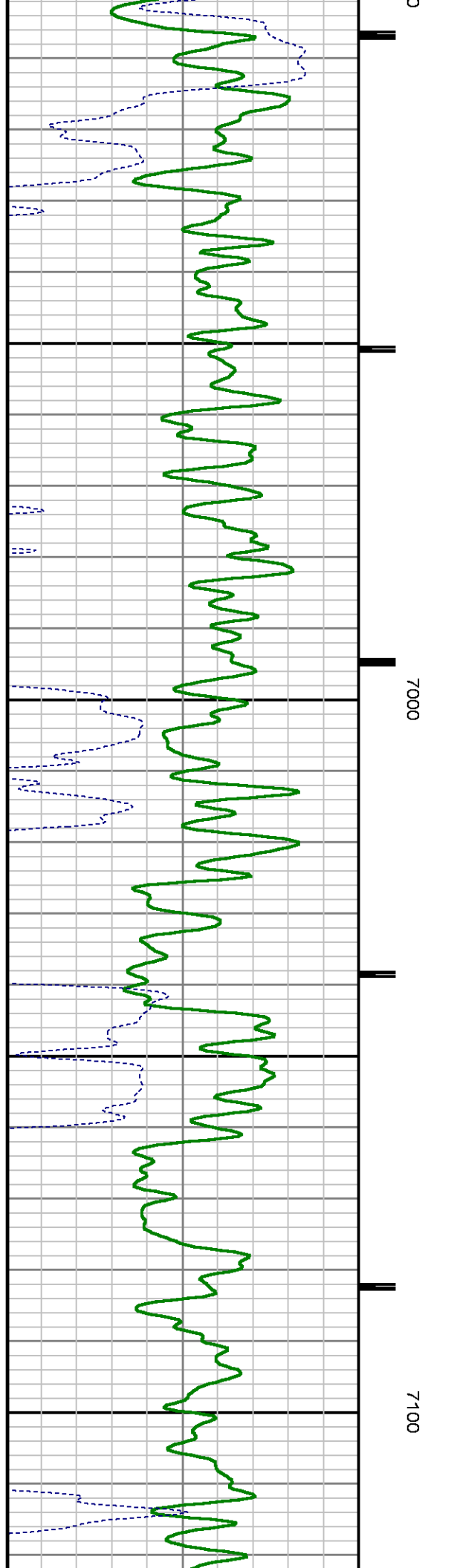
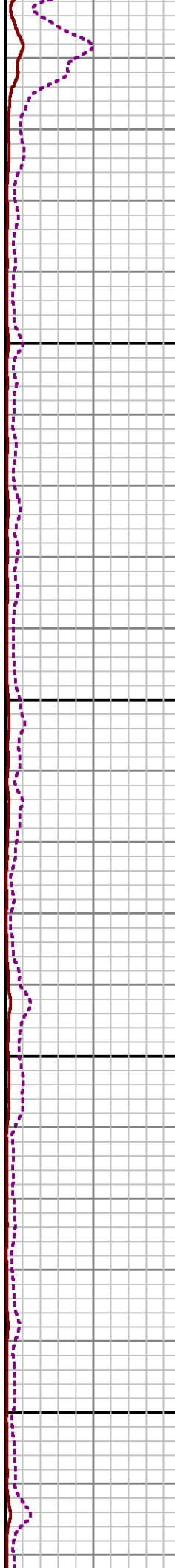
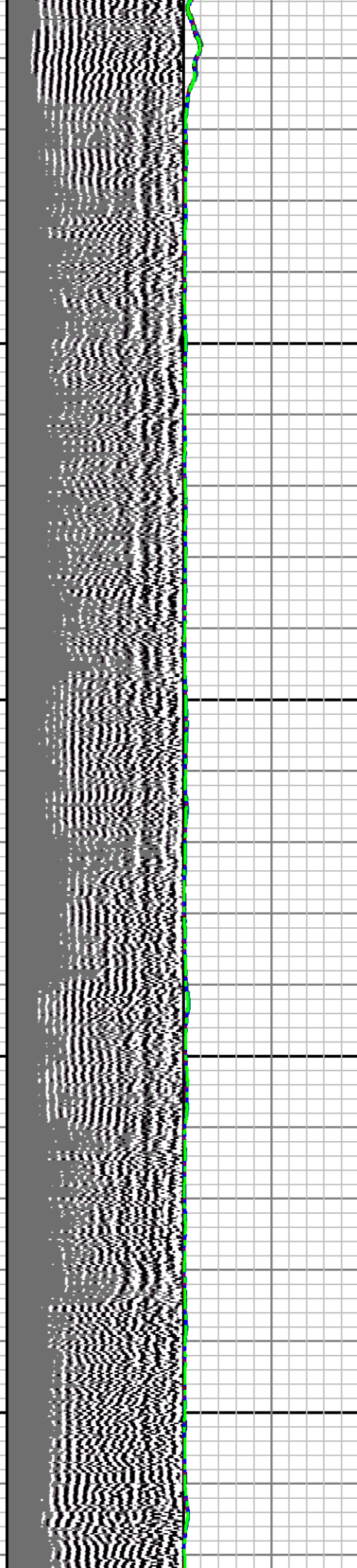


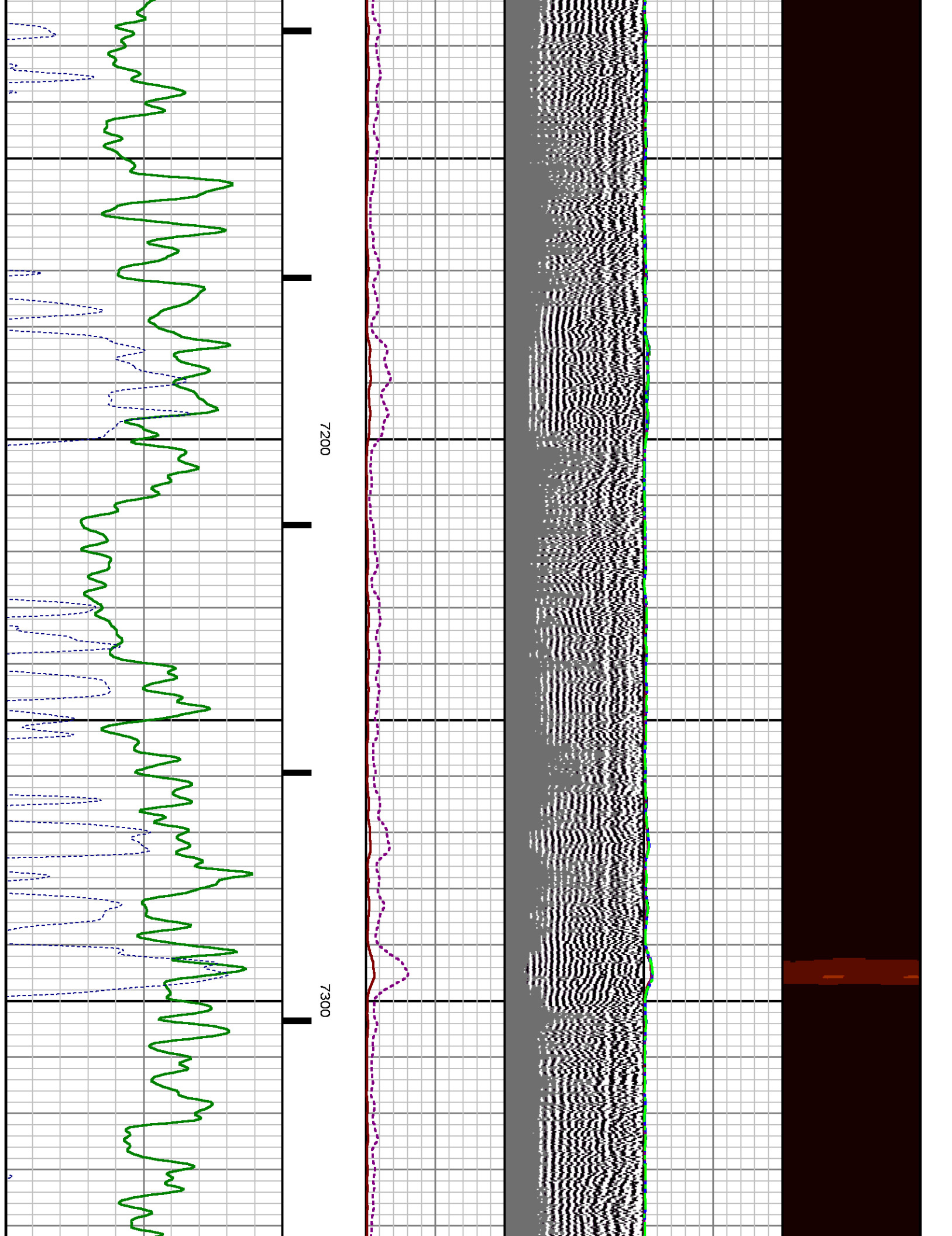


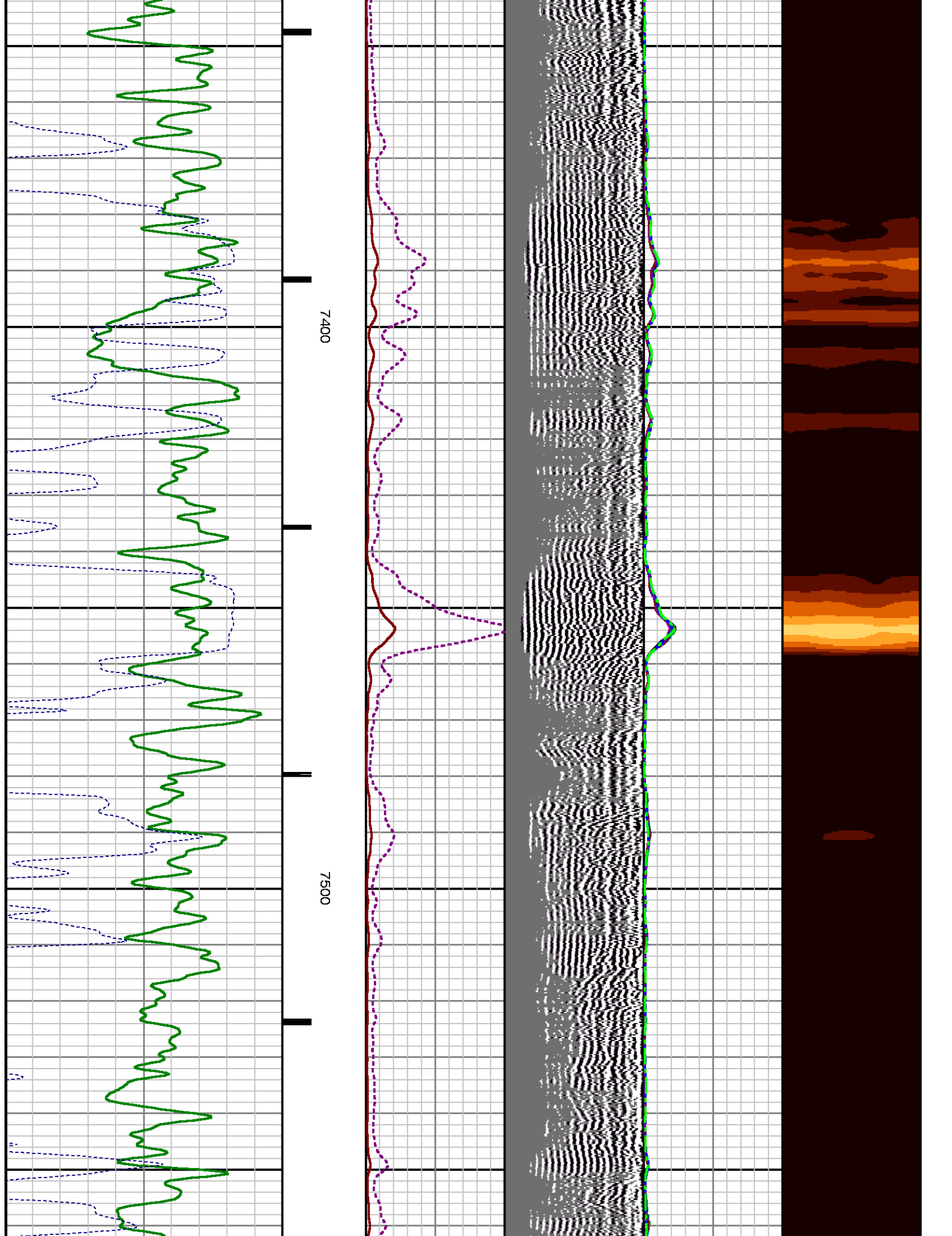


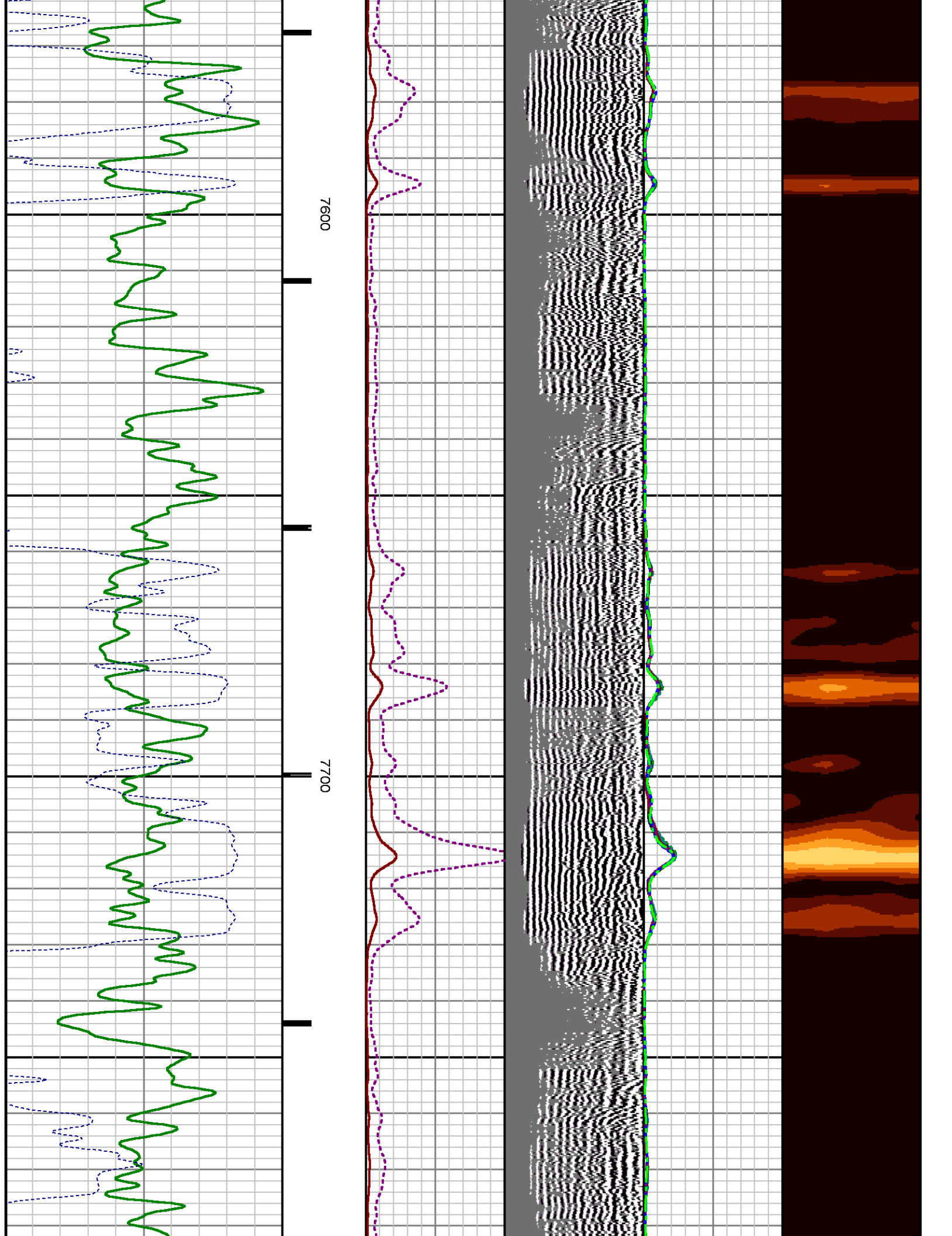


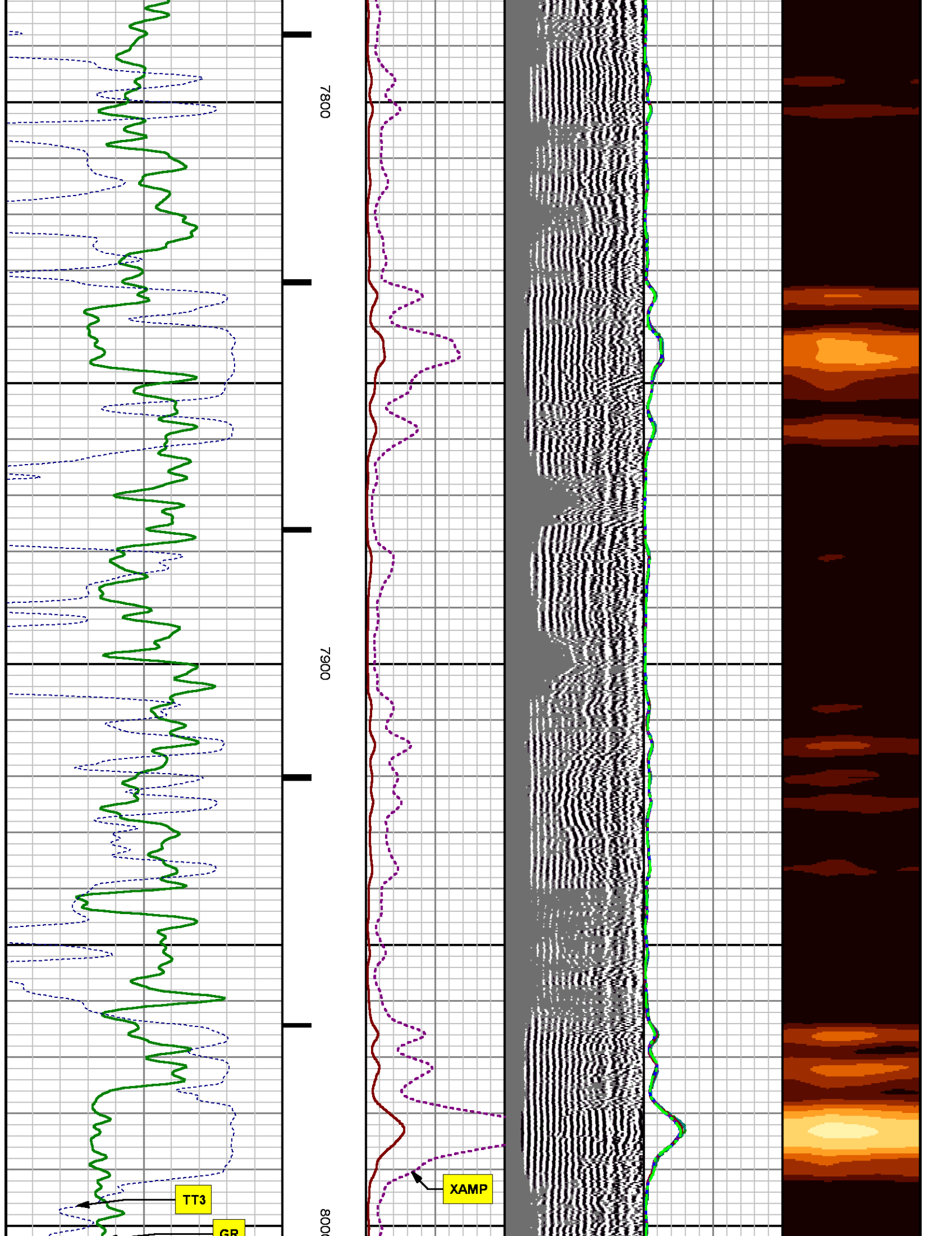


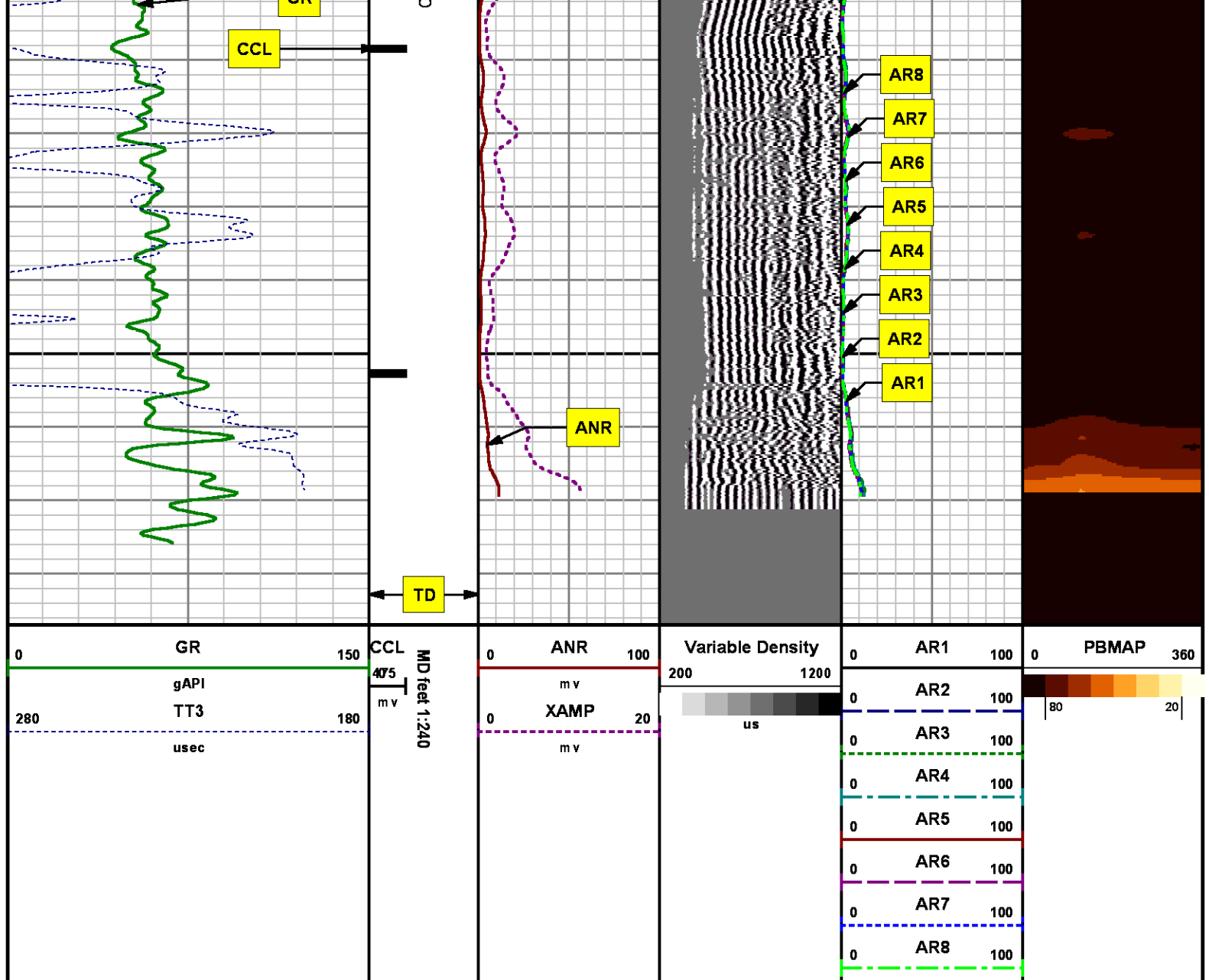












*REPEAT SECTION  
0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7759.260	8086.510
RAL	Amp Gate Start Near	195.000	usec	7759.260	8086.510

RAL	Amp Gate Start Radial	195.000	usec	7759.260	8086.510
RAL	Amp Gate Width Far	25.000	usec	7759.260	8086.510
RAL	Amp Gate Width Near	25.000	usec	7759.260	8086.510
RAL	Amp Gate Width Radial	25.000	usec	7759.260	8086.510
RAL	casing od	4.500	inches	7759.260	8086.510
RAL	casing wt	11.600	lbm/ft	7759.260	8086.510
RAL	FB Start Far	291.900	usec	7759.260	8086.510
RAL	FB Start Near	180.000	usec	7759.260	8086.510
RAL	FB Start Radial	180.000	usec	7759.260	8086.510
RAL	FB Thresh Far	10.000	mv	7759.260	8086.510
RAL	FB Thresh Near	4.000	mv	7759.260	8086.510
RAL	FB Thresh Radial	4.000	mv	7759.260	8086.510
RAL	Fluid Travel Time	200.000	usec/ft	7759.260	8086.072

### 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

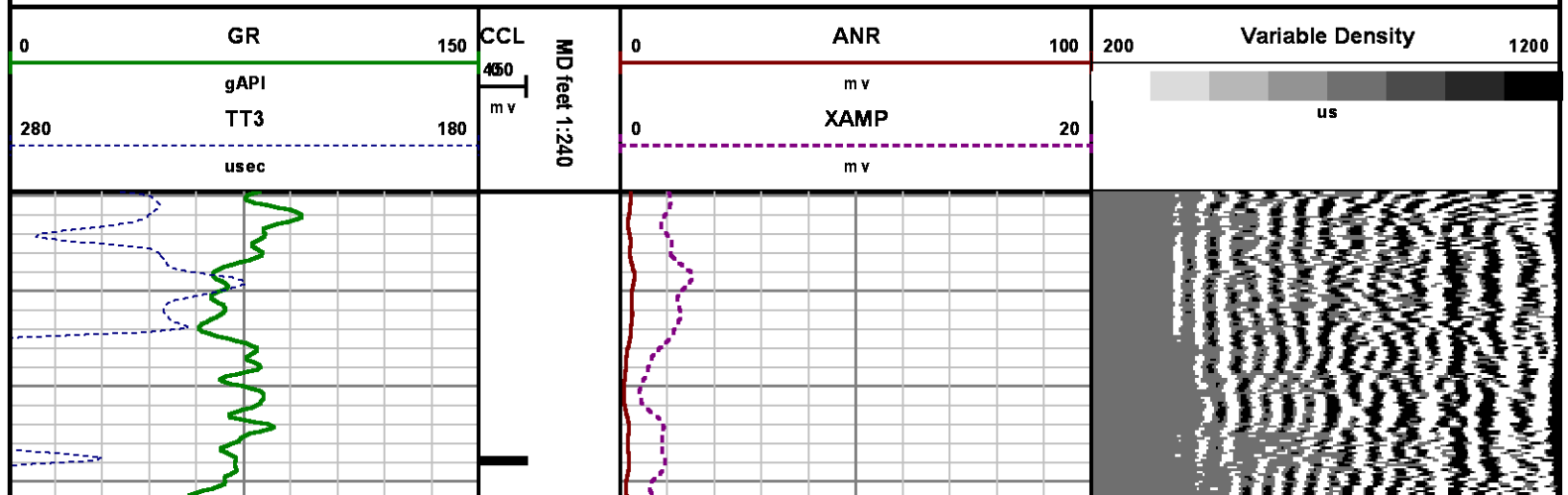
Well : WPX ENERGY PA 343-3

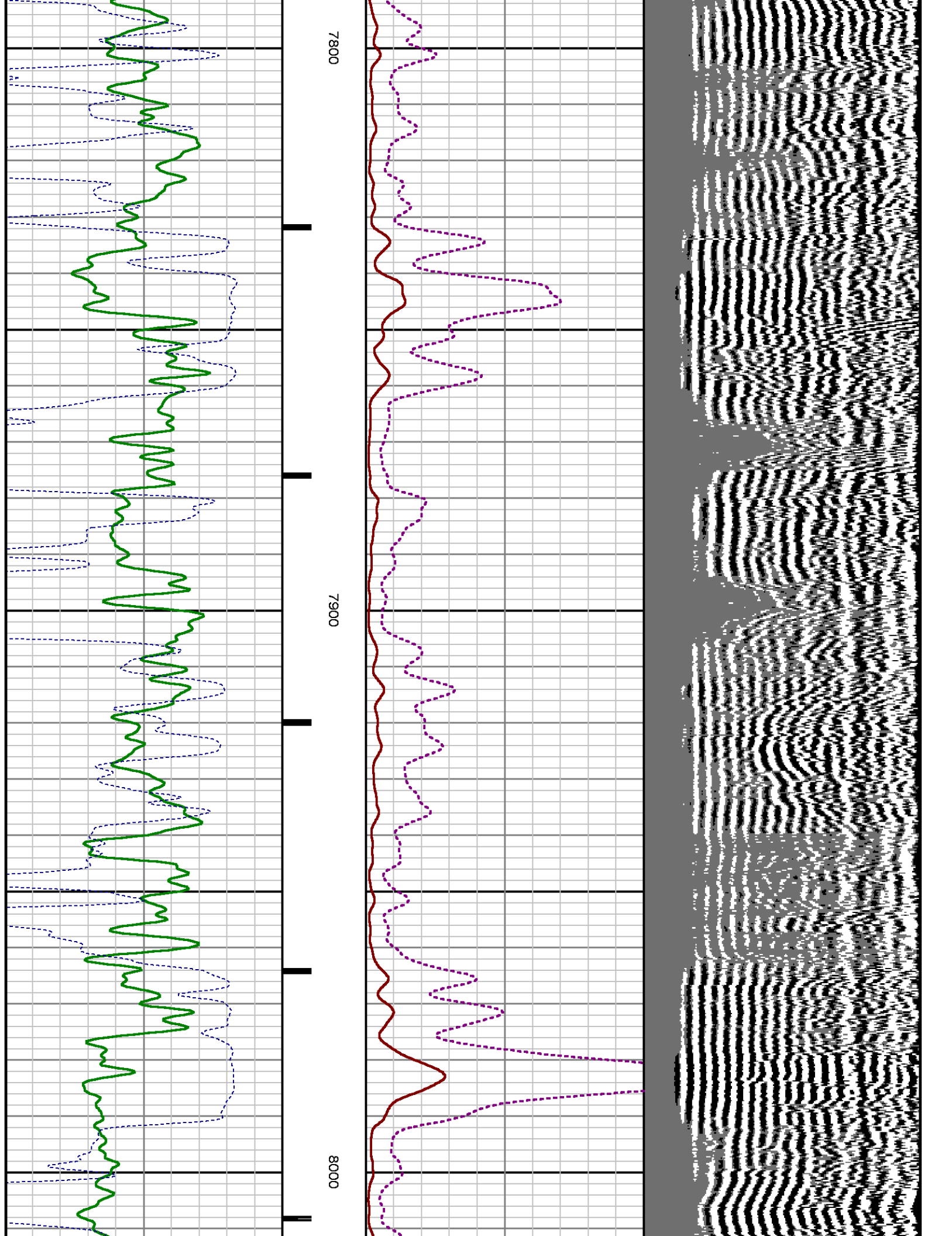
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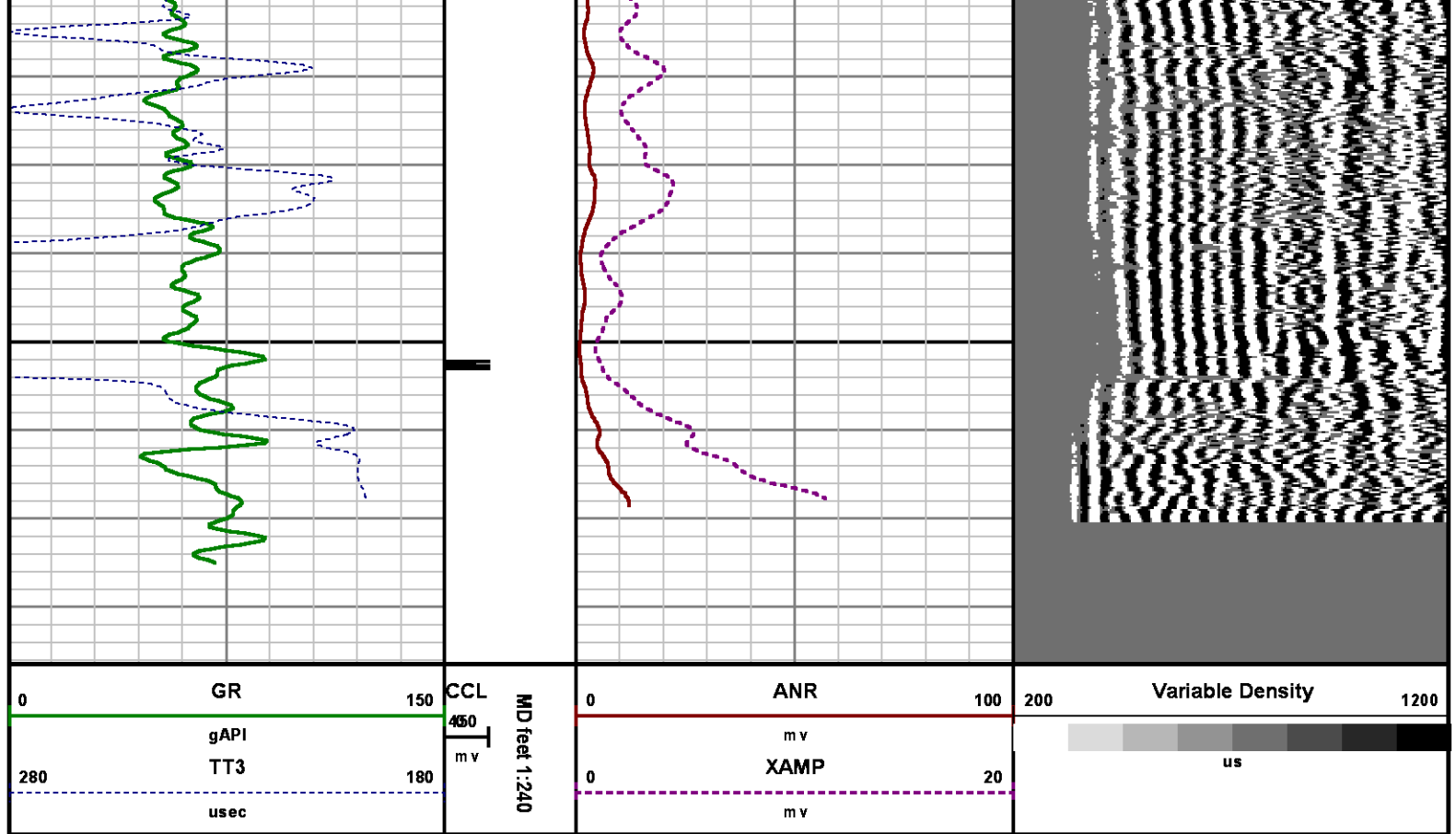
Mode : PlotMgr 5.4.504

Interval : 7759.51 - 8086.51 feet UP

Created : 6/8/2014 8:17:57 AM







## CALIBRATION SUMMARY

# RALSHP

Shop Calibration: C:\case\calver\RAL\_SHP496.JU7\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jun 07 09:20:48 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: JU7

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="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="0.293"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>
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="2.238"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>
5 Ft. Receiver	<input type="text" value="326"/>	<input type="text" value="325"/>	<input type="text" value="30"/>	<input type="text" value="229"/>	<input type="text" value="25"/>	<input type="text" value="0.223"/>	<input type="text" value="150.00"/>	<input type="text" value="0.36"/>
Radial #1	<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="1.551"/>	<input type="text" value="100.00"/>	<input type="text" value="0.33"/>
Radial #2	<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="1.328"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>
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="2.150"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>
Radial #4	<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="2.411"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>
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="1.945"/>	<input type="text" value="100.00"/>	<input type="text" value="0.32"/>

Radial #6	218	216	30	166	25	1.841	100.00	0.33
Radial #7	218	216	30	166	25	1.871	100.00	0.33
Radial #8	219	216	30	166	25	1.723	100.00	0.33

# RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496JU7\_fld\_cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jun 07 09:26:48 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: JU7

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	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="0.007"/>	<input type="text" value="0.000"/>	<input type="text" value="1.00"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.411"/>			
5 Ft. Receiver	<input type="text" value="305"/>	<input type="text" value="25"/>	<input type="text" value="3.526"/>			
Radial #1	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.783"/>			
Radial #2	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.914"/>			
Radial #3	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.343"/>			
Radial #4	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.282"/>			
Radial #5	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.534"/>			
Radial #6	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="2.388"/>			
Radial #7	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.957"/>			
Radial #8	<input type="text" value="195"/>	<input type="text" value="25"/>	<input type="text" value="1.910"/>			

# GAMMA RAY

Calibration File: C:\case\calver\GR\45608\_cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu May 08 09:48:12 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="97.82"/>	<input type="text" value="367.47"/>	<input type="text" value="0.686"/>	<input type="text" value="67.11"/>	<input type="text" value="252.11"/>	<input type="text" value="185.00"/>

Verification File: C:\case\calver\GR\45608\_VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu May 08 09:49:43 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: 08

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	<input type="text" value="98.76"/>	<input type="text" value="372.44"/>	<input type="text" value="0.686"/>	<input type="text" value="67.76"/>	<input type="text" value="255.53"/>	<input type="text" value="187.77"/>

# TOOL DIAGRAM

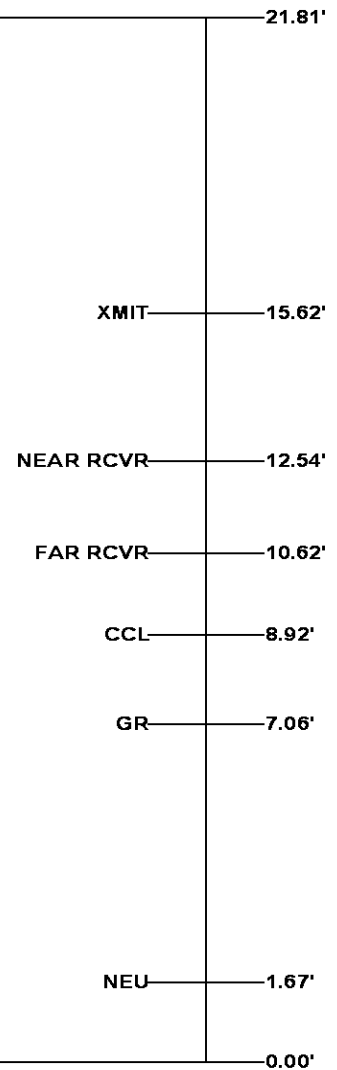
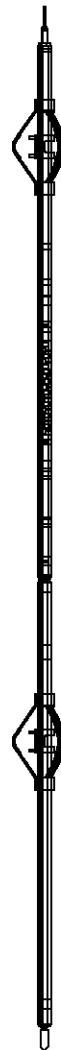
## OTA SHORT CABLE HEAD

## PROBE 2 3/4 DUAL RECEIVER RADII

Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

## Probe GR/CCL/NEU

Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL



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



Baker Atlas

<b>Company</b>	WPX ENERGY
<b>Well</b>	WPX ENERGY PA 343-3
<b>Field</b>	PARACHUTE
<b>County</b>	GARFIELD
<b>State</b>	COLORADO

<b>File No:</b>	CH086869
<b>API No:</b>	05045221450000

**Location**  
 SHL: 2062' FSL & 1529' FWL (SEC 2)

**Elevations**  
 KB 5846 ft

**3 7S 95W**

*CASE*

BHL: 2175' FSL & 1043' FEL (SEC 3)

DF

GV 86-2 PAD

GL 5821 ft

AZTEC 1000

SEC 3

TWP 7S

RGE 95W