



Baker Atlas

**RADIAL ANALYSIS  
BOND LOG**

File No:	Company	WPX ENERGY
CH81516	Well	PUCKETT GM 701-28-HN1
API No:	Field	GRAND VALLEY
05045221540000	County	GARFIELD
	State	CO

28 GS 95W	Location	SHL: 1314' FNL & 1035' FNL	Other Services
GM 11-28 PAD		BHL: 535' FNL & 629' FNL	
AZTEC 1000	SEC 28	TWP 6S	RGE 95W

Permanent Datum	QL	Elevation	5604 ft
Log Measured From	KB	25 ft	Above P. D.
Drill Measured From	KB		
		Elevations	KB 5629 ft DF GL 5604 ft

Date	02/JAN/14
Run	ONE
Service Order	US625081
Depth Driller	12235 ft
Depth Logger	11128 ft
Bottom Logged Interval	11118 ft
Top Logged Interval	25 ft
Time Started	11:00
Time Finished	16:30
Operator Rig Time	5.5 HOURS
Type of Fluid in Hole	DRILLING MUD
Fluid Density	13 lbm/gal
Salinity	NA
Fluid Level	80 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	NA
Reference Log	BAKER HUGHES OPEN HOLE
Reference Log Date	08/DEC/13
Equipment No.	4271
Location	GRAND JCT
Recorded By	NEWELL
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.

Bit Size	From	To
24 In	0 ft	80 ft
17.5 In	80 ft	2935 ft
12.25 In	2935 ft	10500 ft
8.5 In	10500 ft	16317 ft

Size	Weight	Grade	From	To
20 In			0 ft	80 ft
13.375 In			0 ft	2935 ft
9.625 In			0 ft	10500 ft
5.5 In			0 ft	16317 ft

**Remarks**

All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 12/08/2013 at the clients request.

The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray

reference.

The amount of linear shift is 25 feet.

Some collars are missing due to the heavy mud and casing size (5.5") in hole.

The heavy mud attenuated the acoustic signal, so in free pipe the amplitude is lower than expected (72mv for 5.5 23#)

#### Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10124121	CENTRALIZED

## *PRIMARY PRESENTATION*

### *0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	315.000	usec	35.062	11176.000
RAL	Amp Gate Start Near	200.000	usec	35.062	11176.000
RAL	Amp Gate Start Radial	200.000	usec	35.062	11176.000
RAL	Amp Gate Width Far	25.000	usec	35.062	11176.000
RAL	Amp Gate Width Near	25.000	usec	35.062	11176.000
RAL	Amp Gate Width Radial	25.000	usec	35.062	11176.000
RAL	casing od	5.500	inches	35.062	11176.000
RAL	casing wt	23.000	lbm/ft	35.062	11176.000
RAL	FB Start Far	294.887	usec	35.062	11176.000
RAL	FB Start Near	178.832	usec	35.062	11176.000
RAL	FB Start Radial	178.832	usec	35.062	11176.000
RAL	FB Thresh Far	10.000	mv	35.062	11176.000
RAL	FB Thresh Near	4.000	mv	35.062	11176.000
RAL	FB Thresh Radial	4.000	mv	35.062	11176.000
RAL	Fluid Travel Time	167.000	usec/ft	35.062	11176.530

# 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

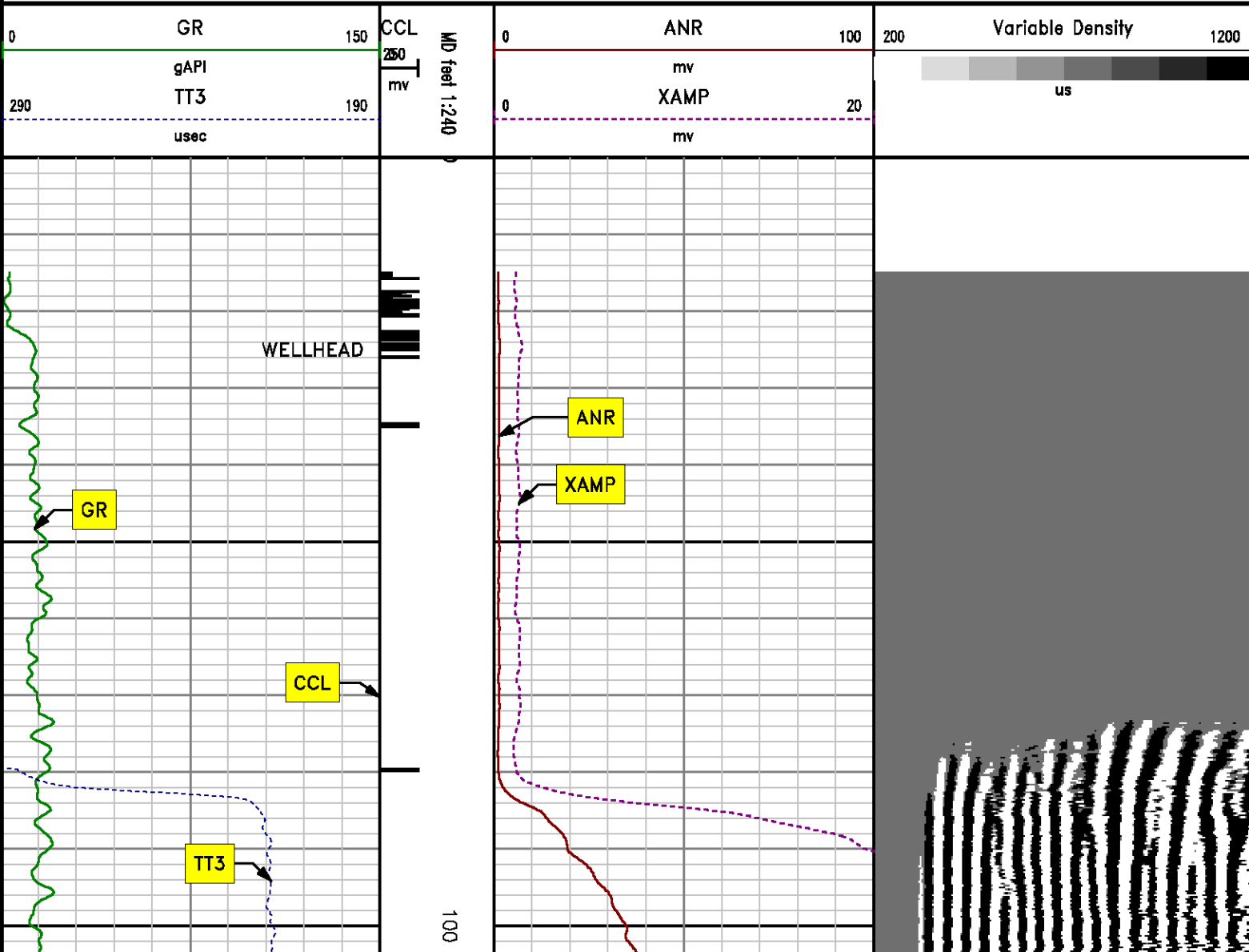
Well : PUCKETT GM 701-28-HN1

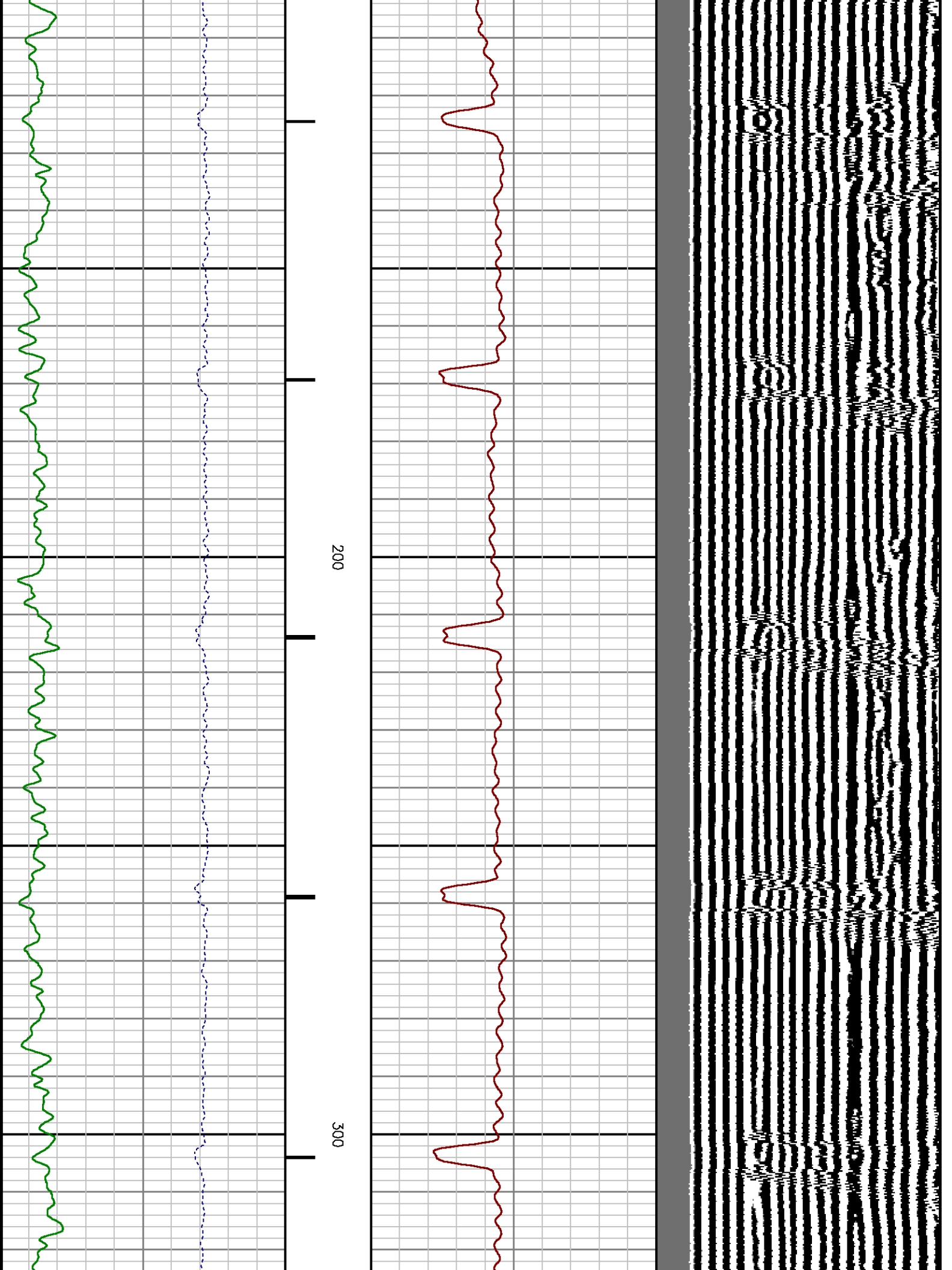
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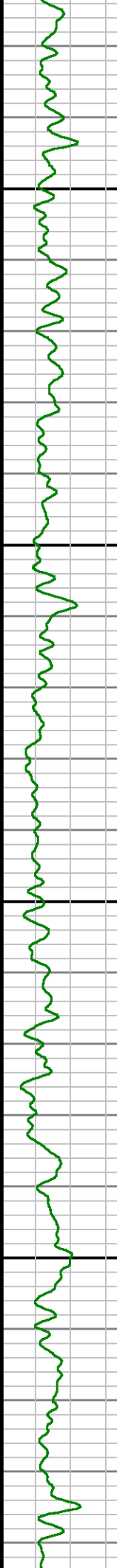
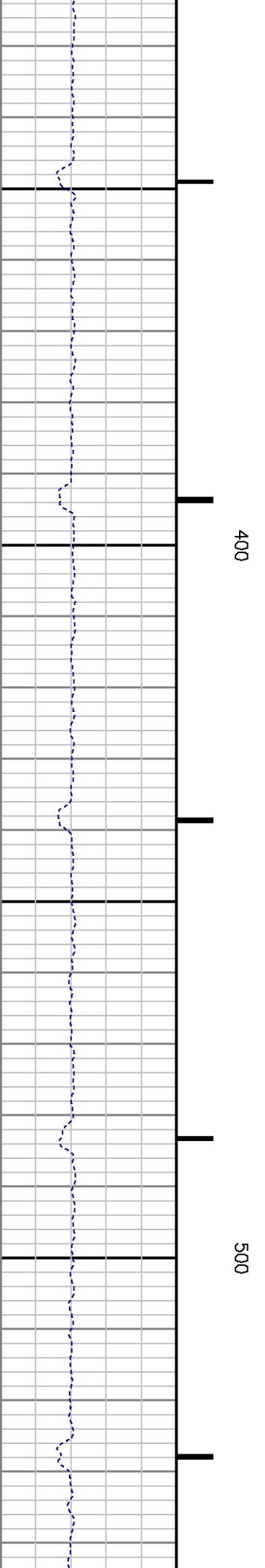
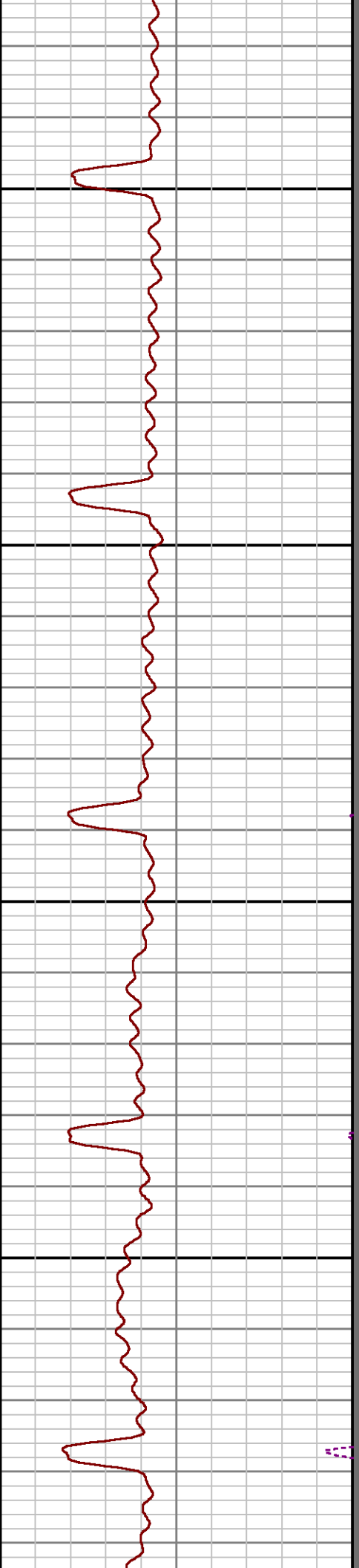
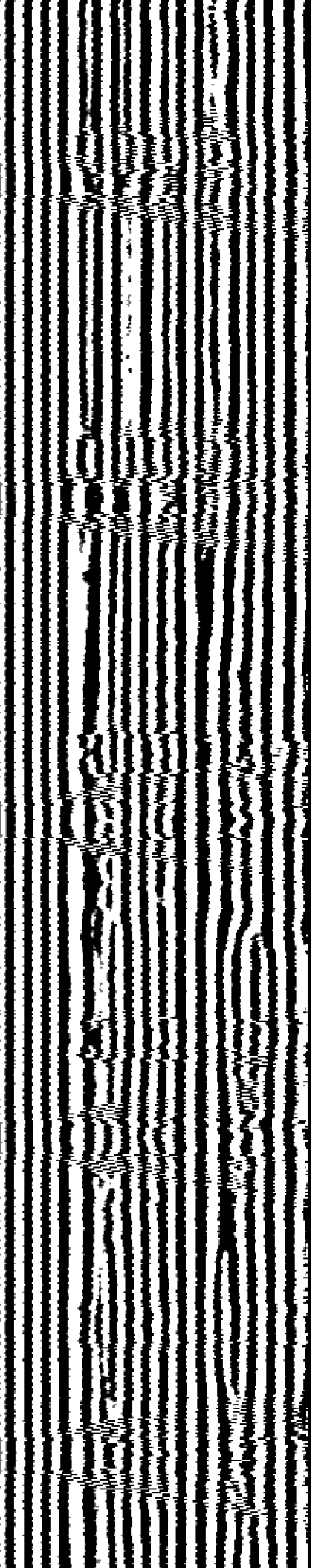
Mode : PlotMgr 5.4.504

Interval : 0.00 - 11133.00 feet UP

Created : 1/3/2014 10:35:02 AM

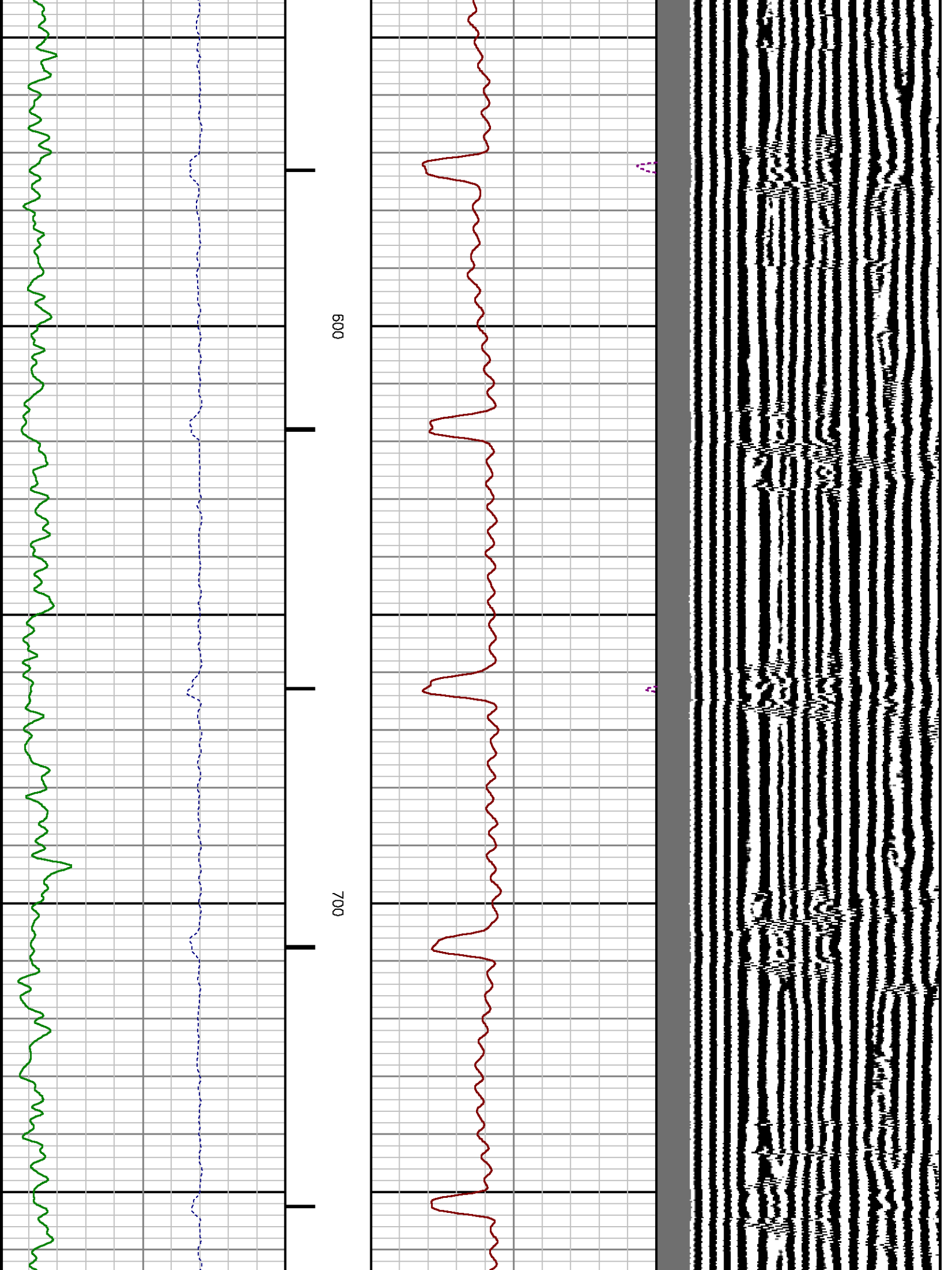


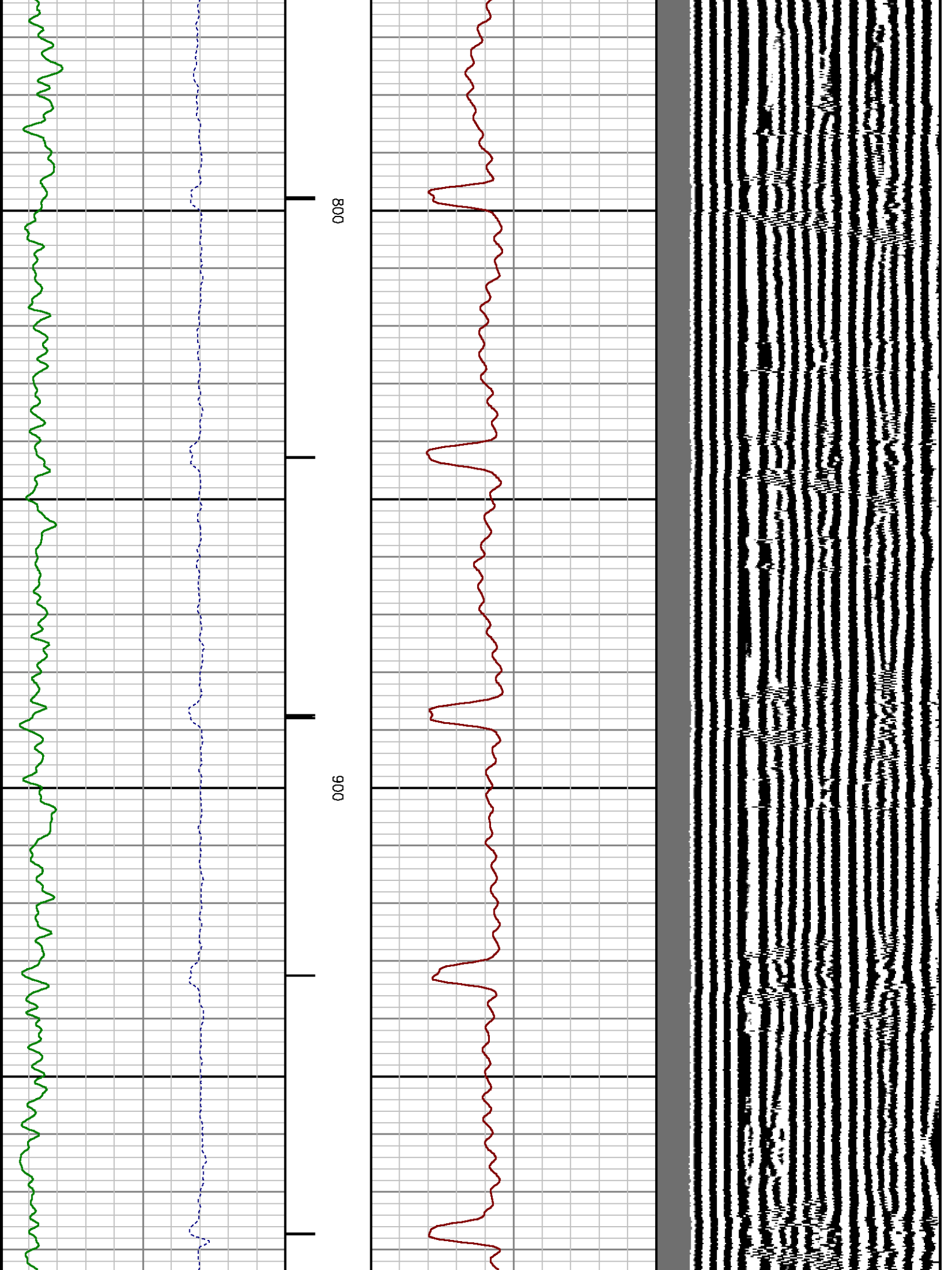


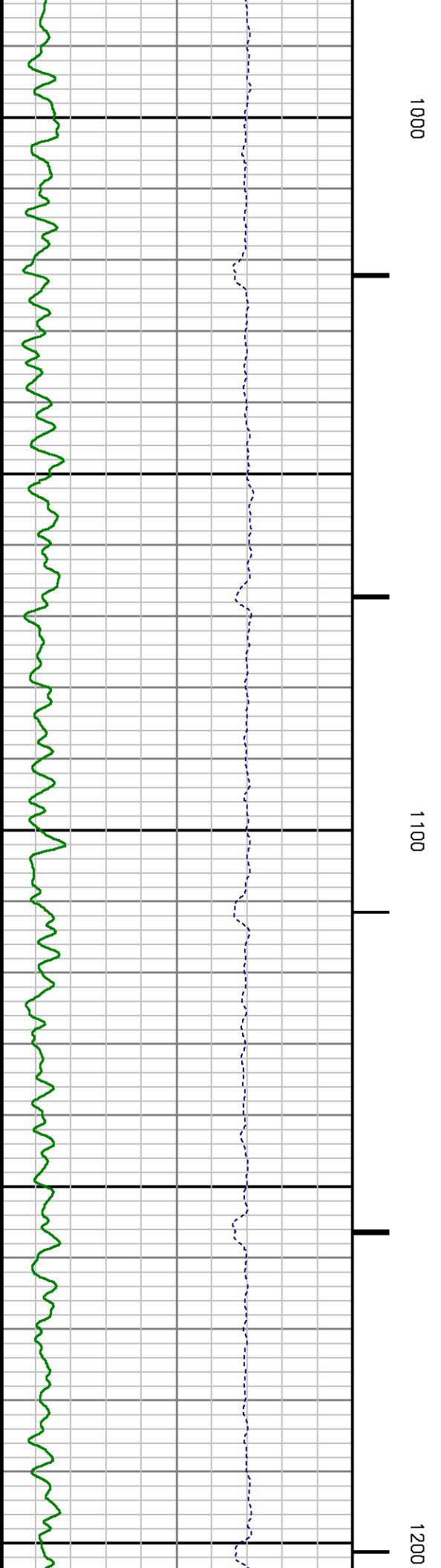
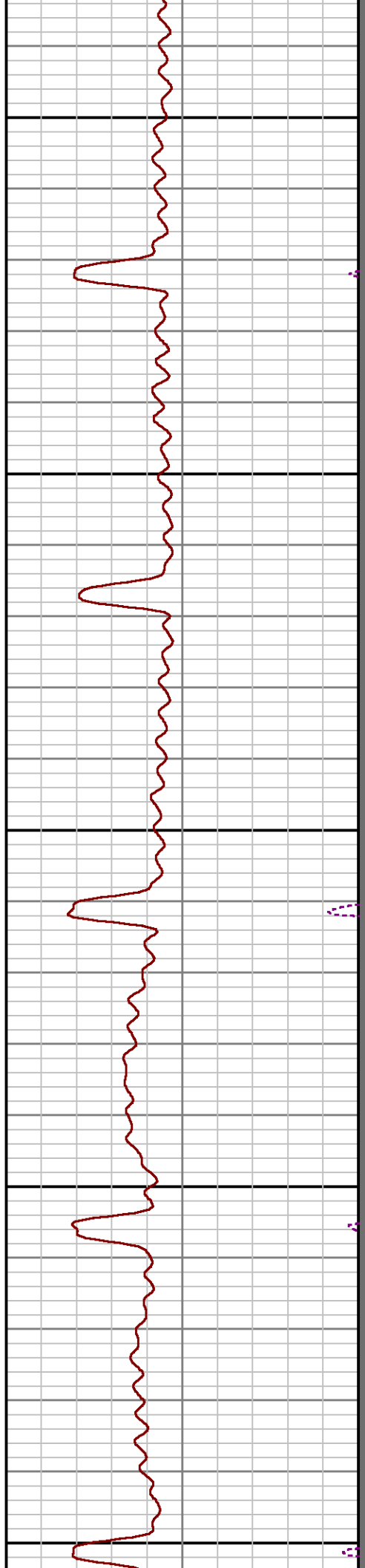
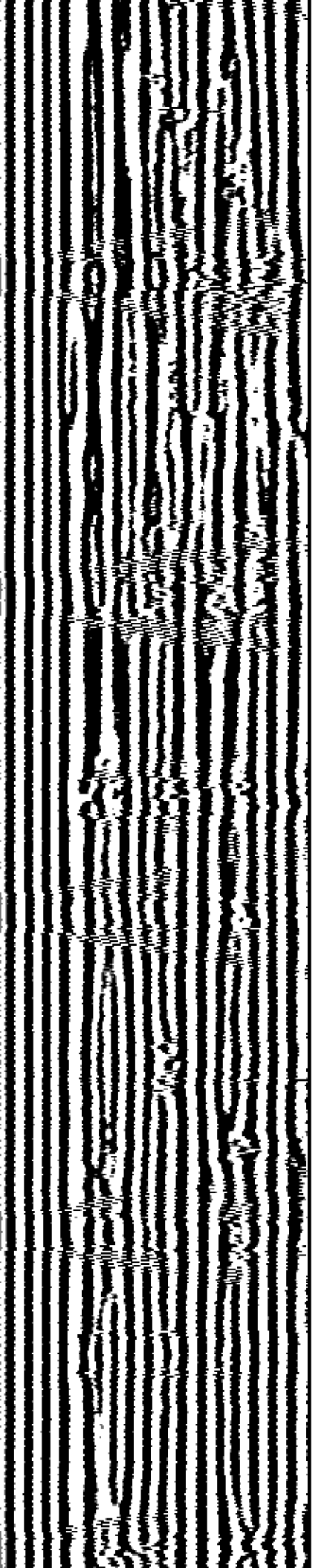


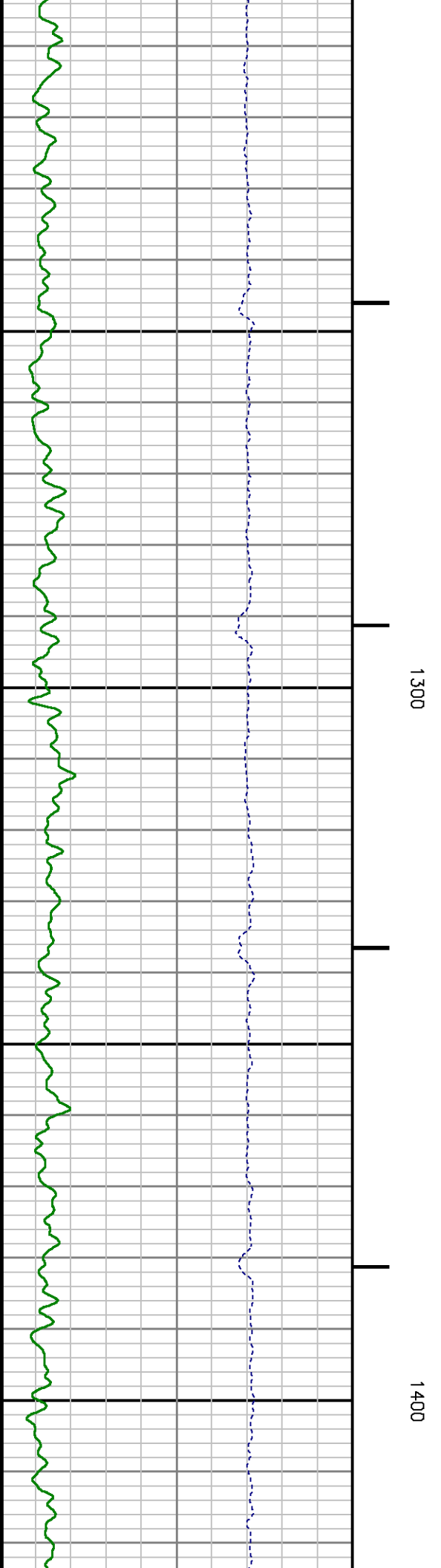
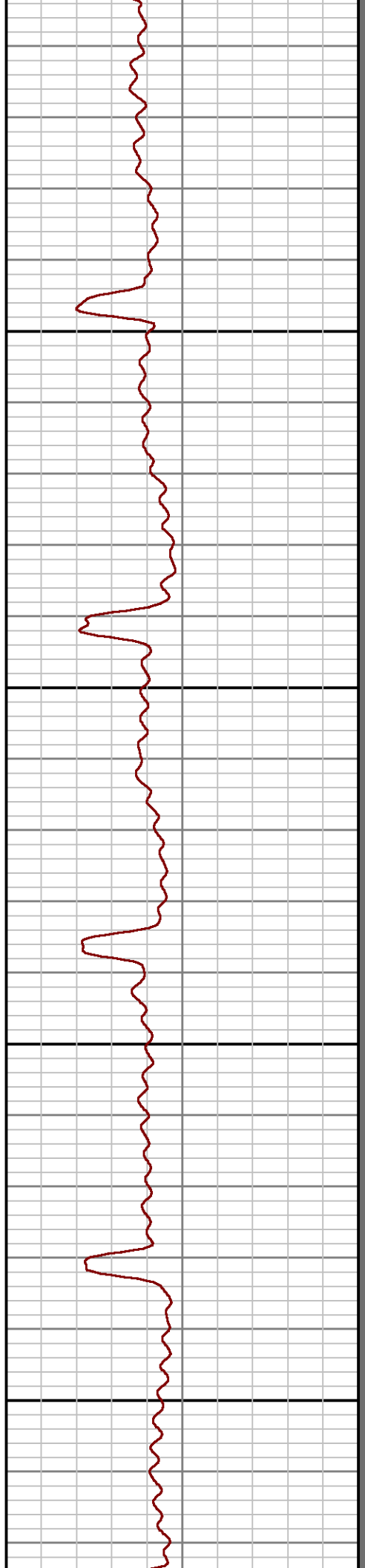
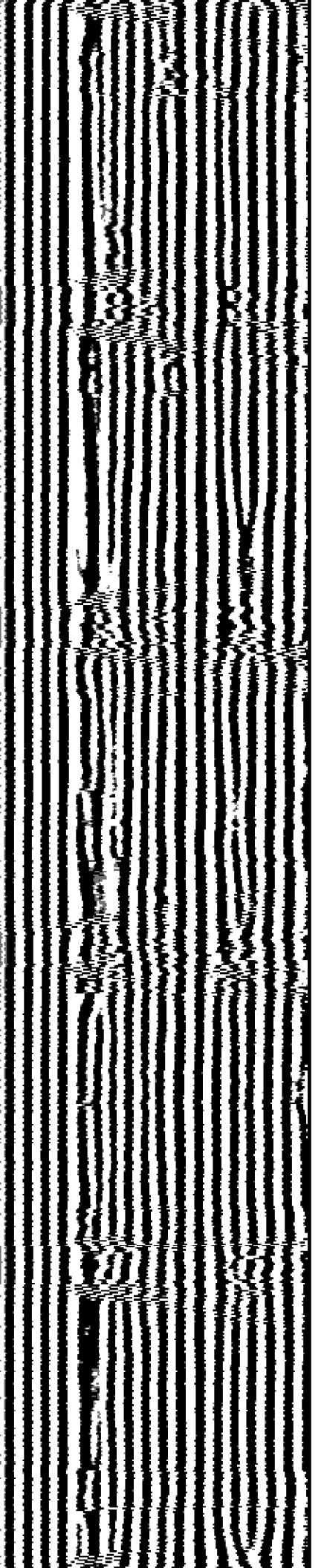
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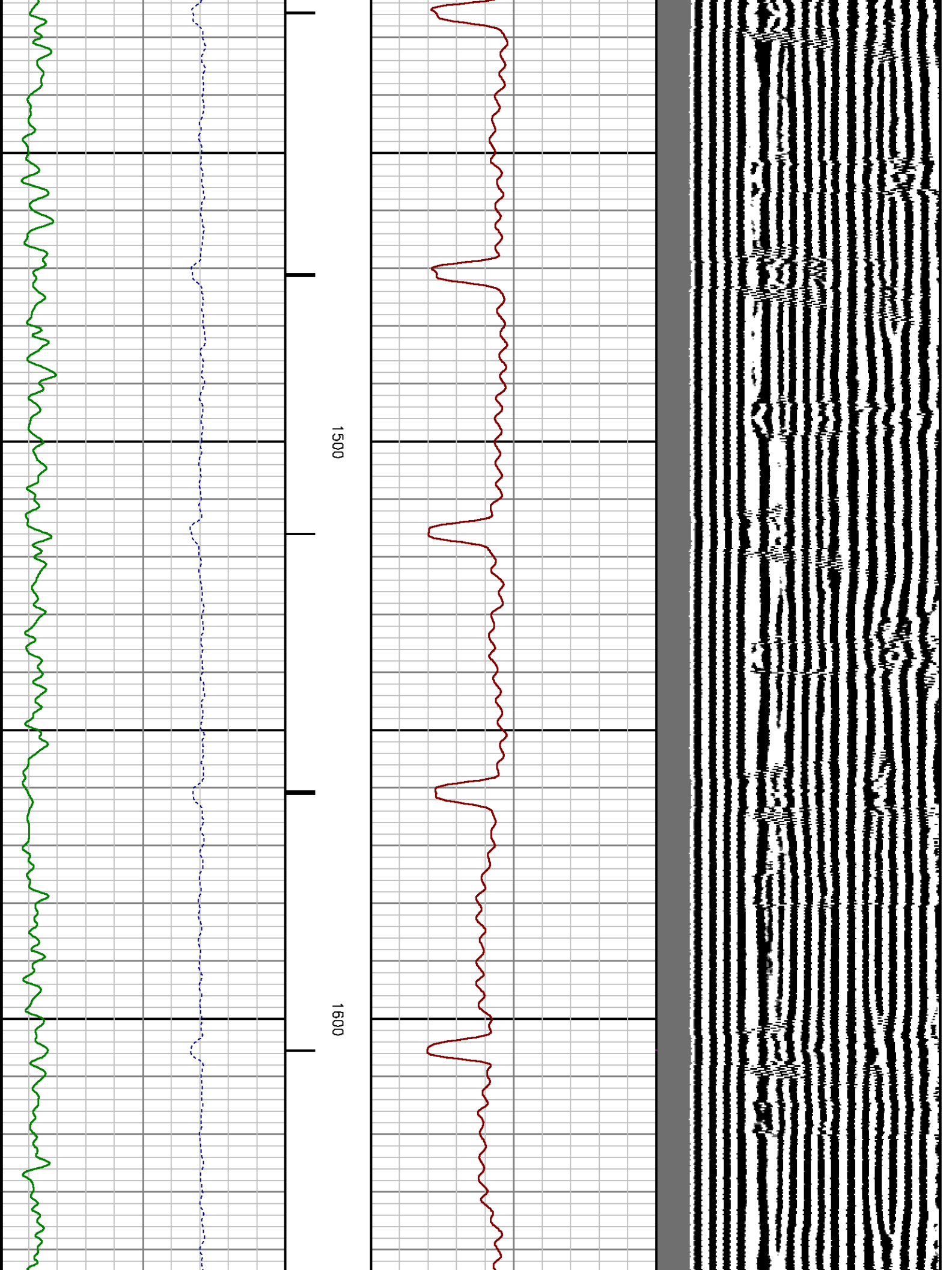
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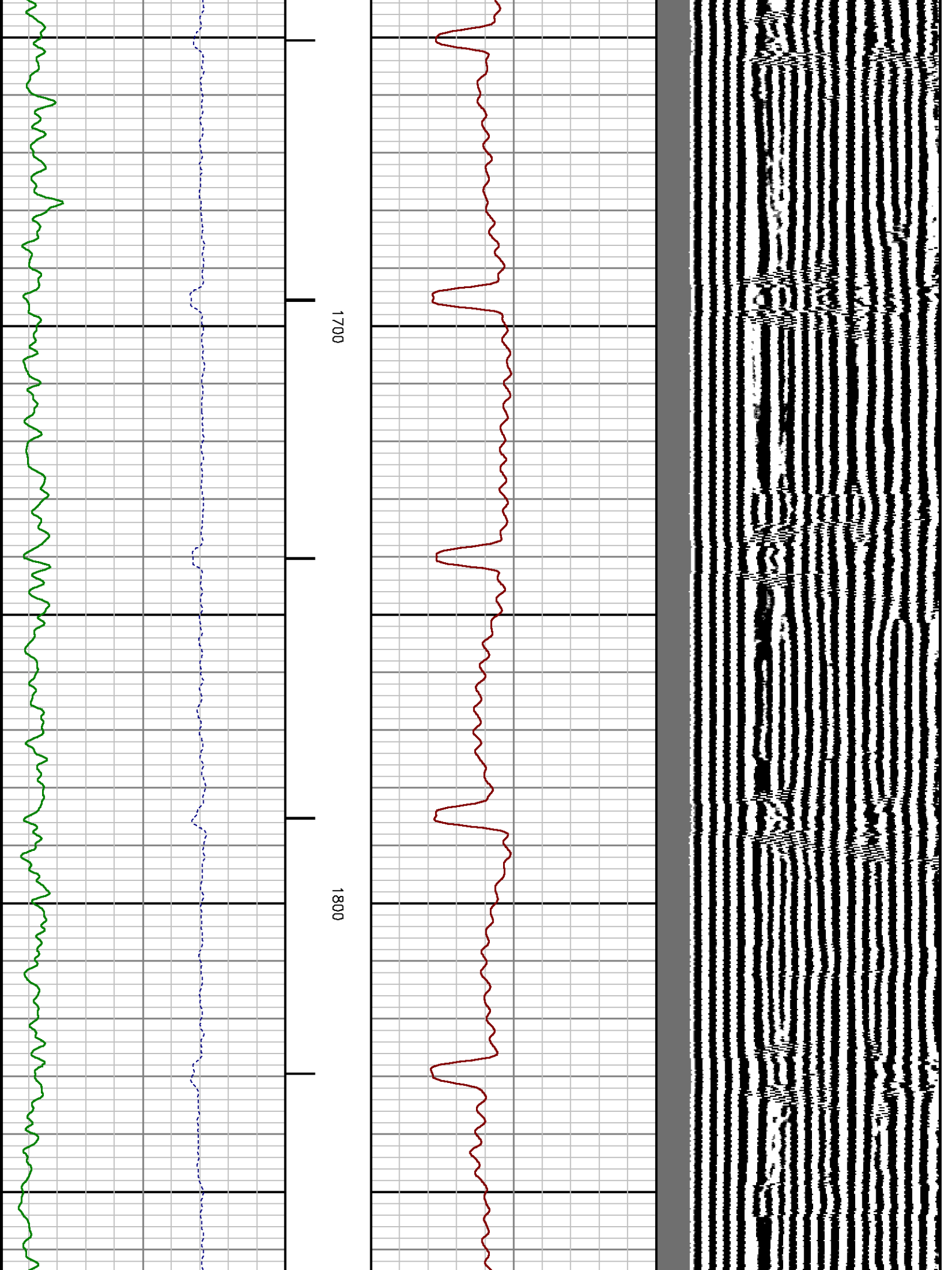


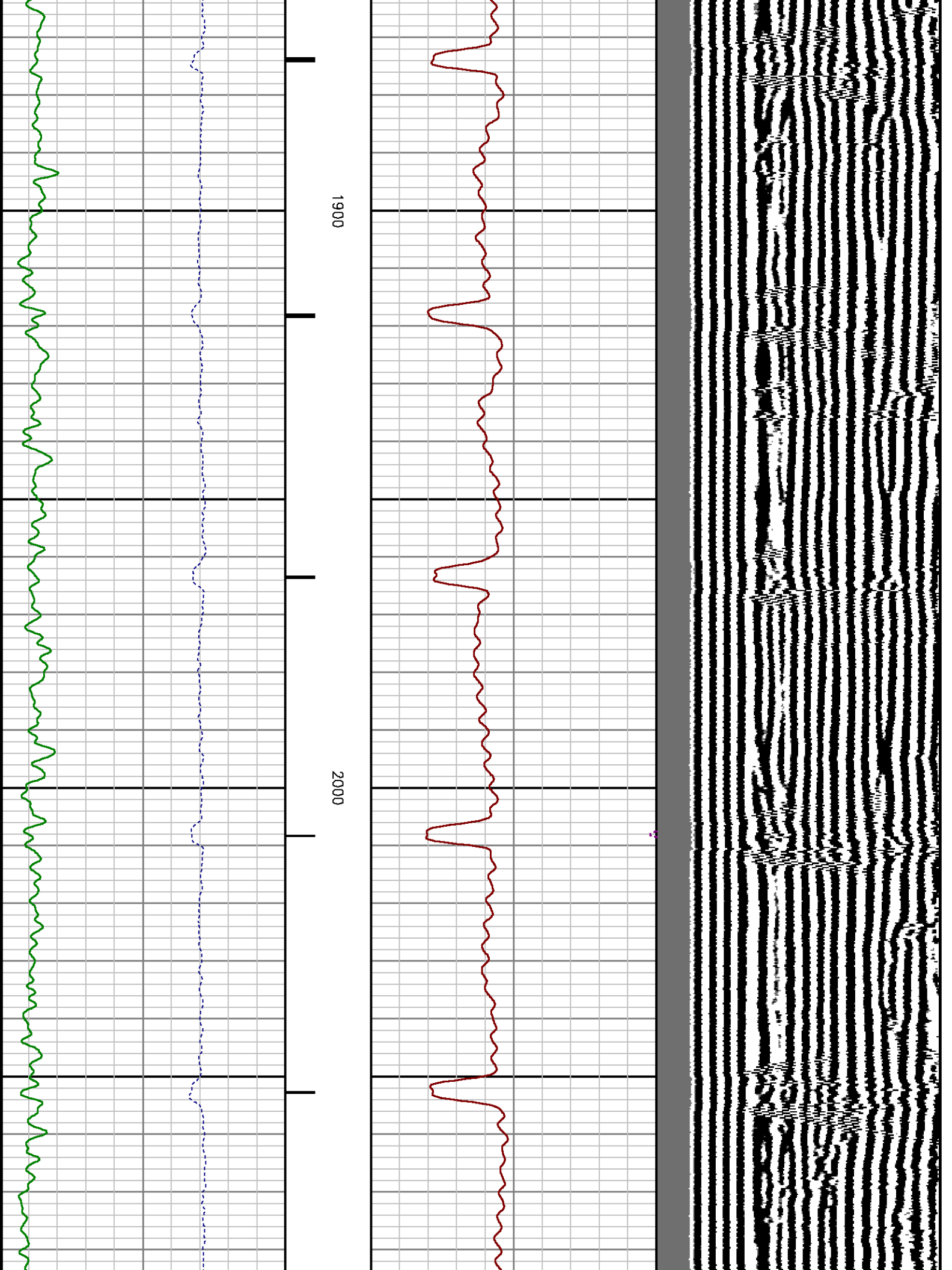


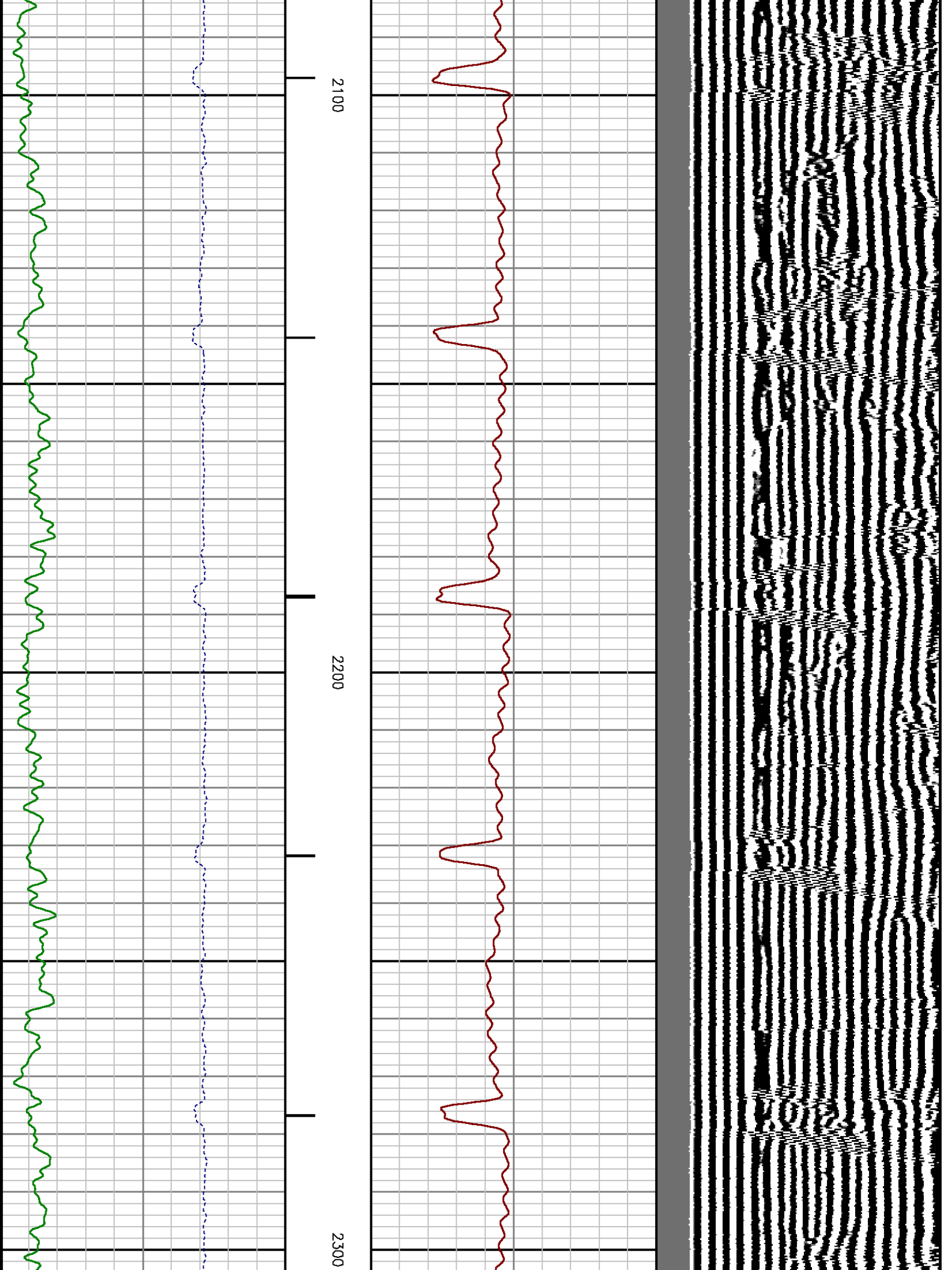


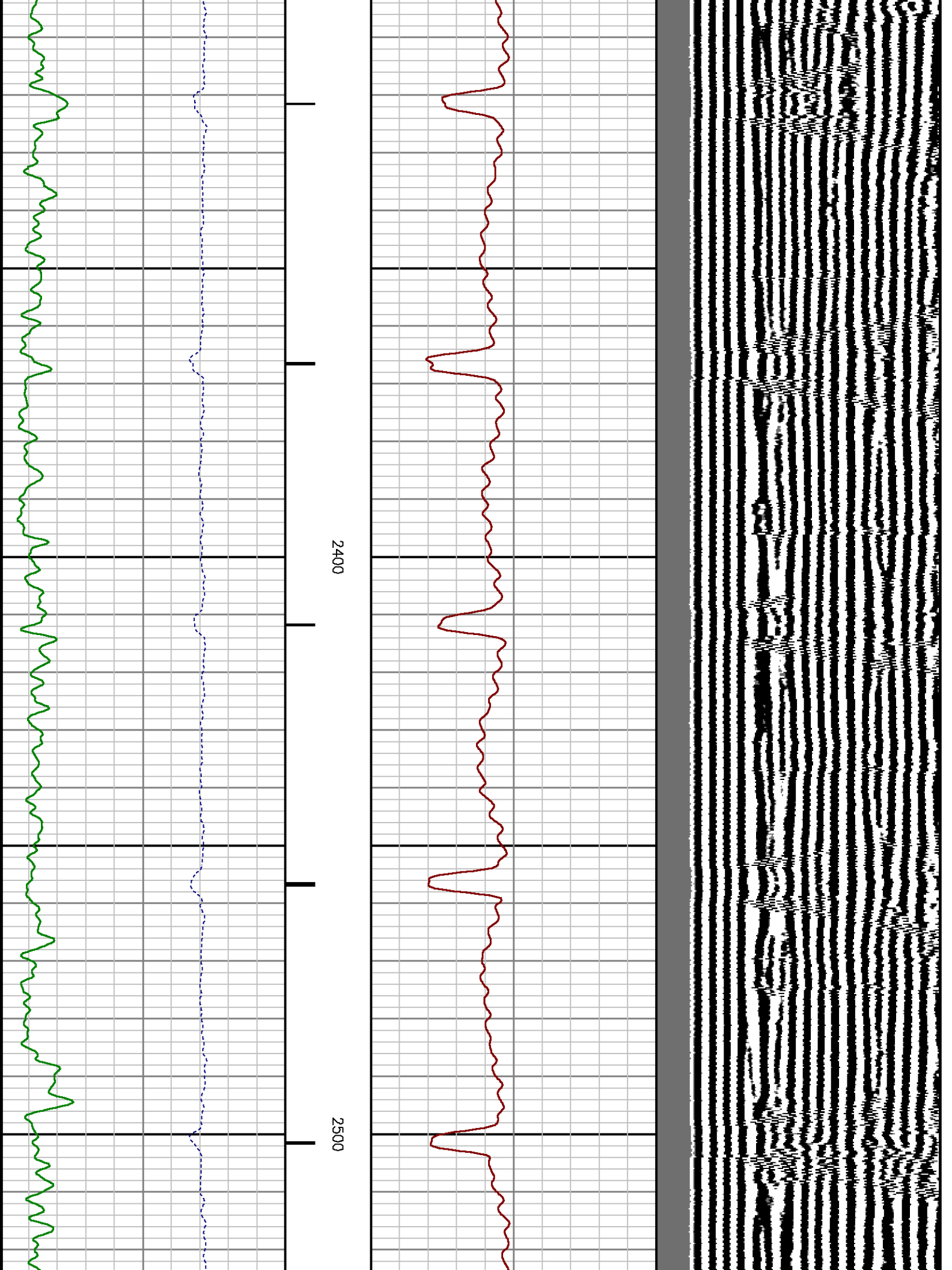


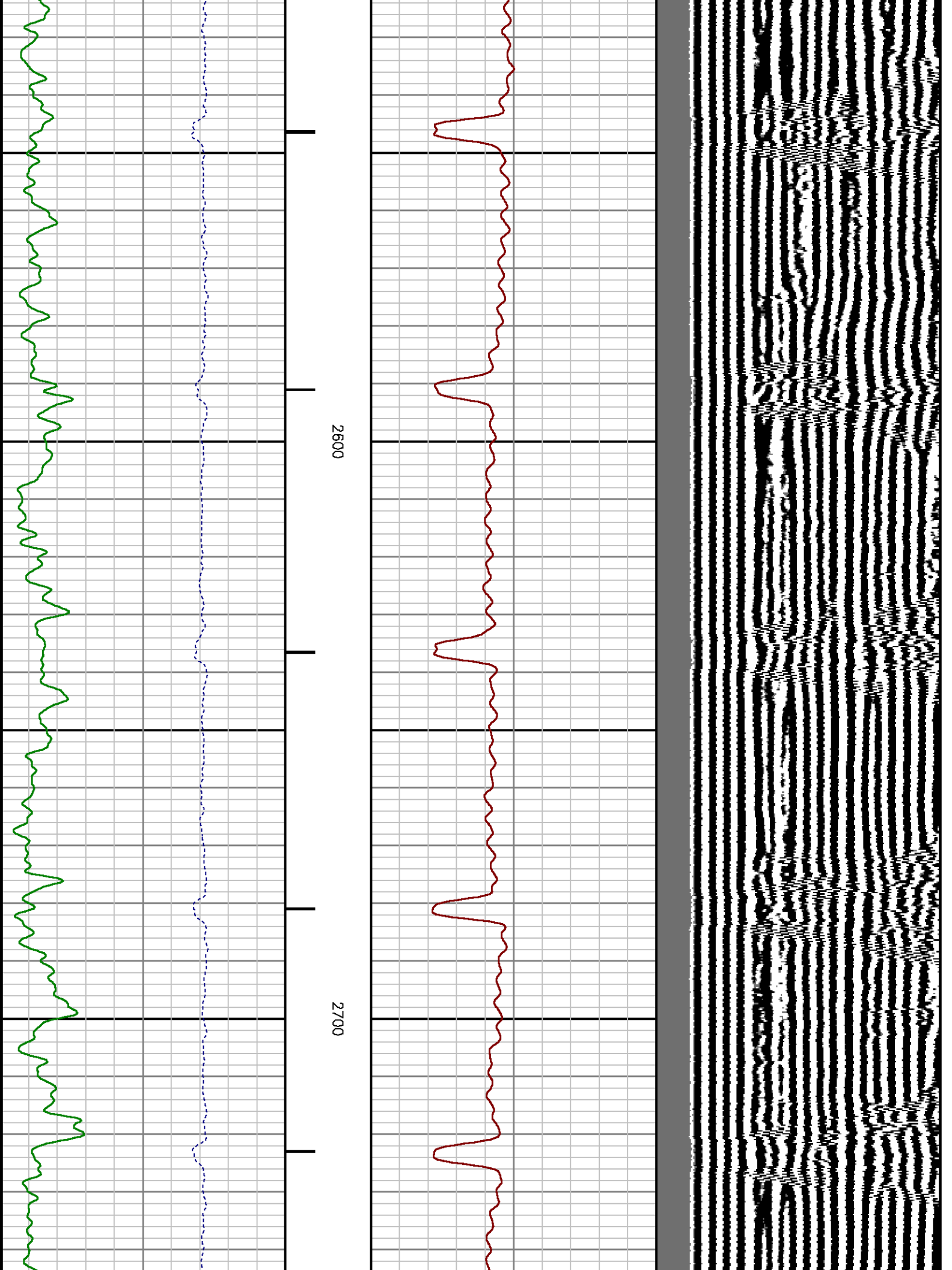


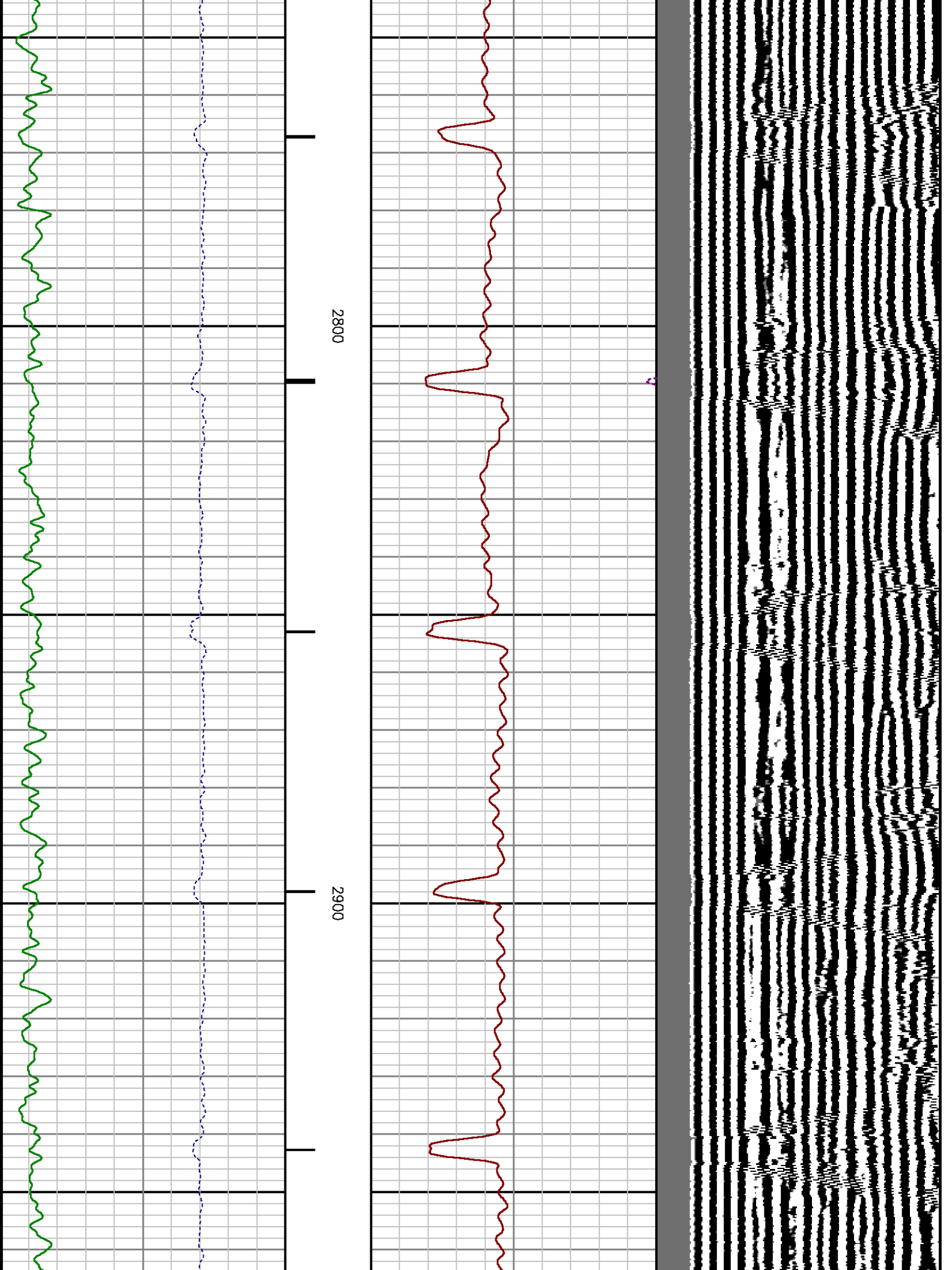


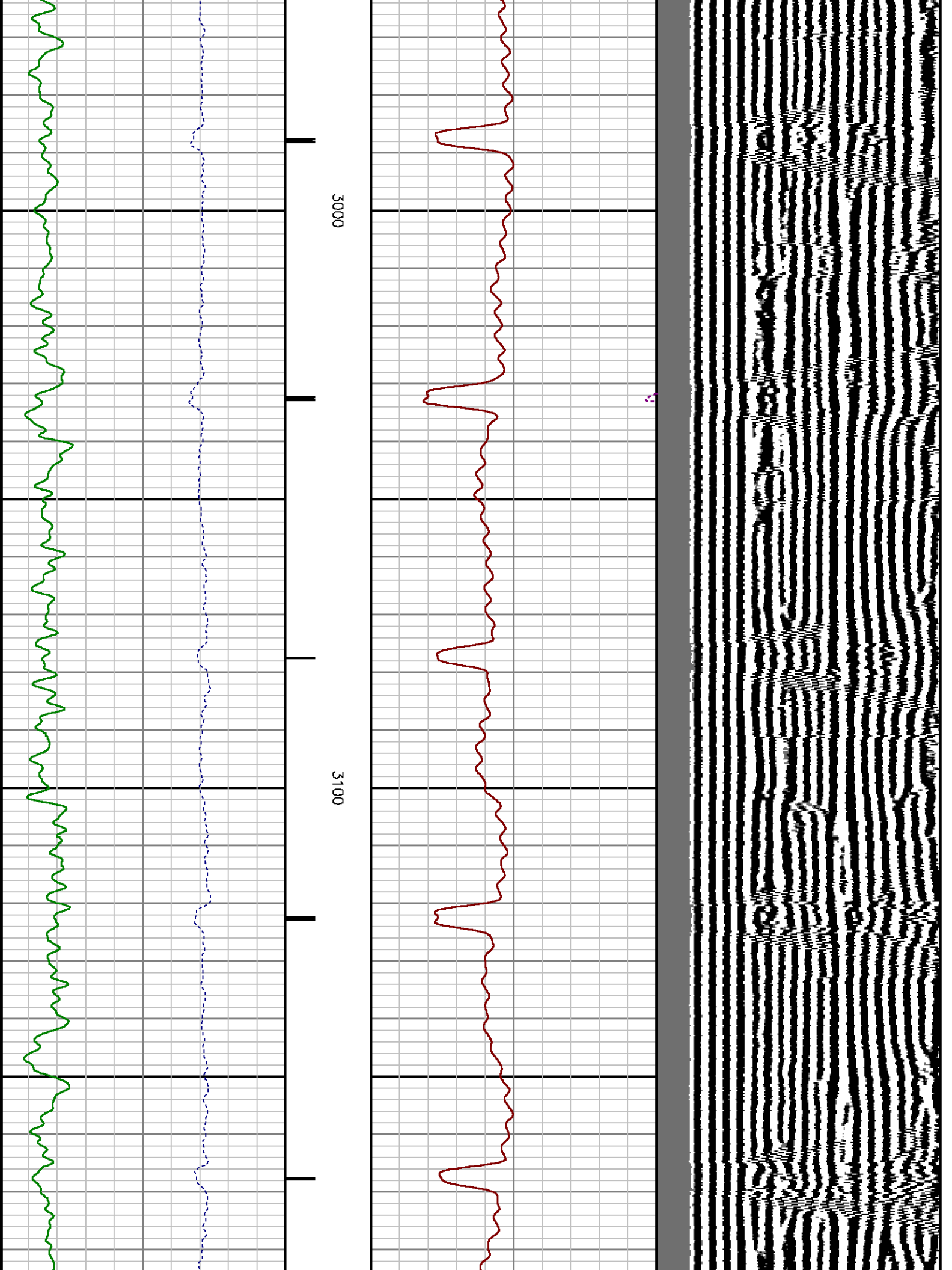


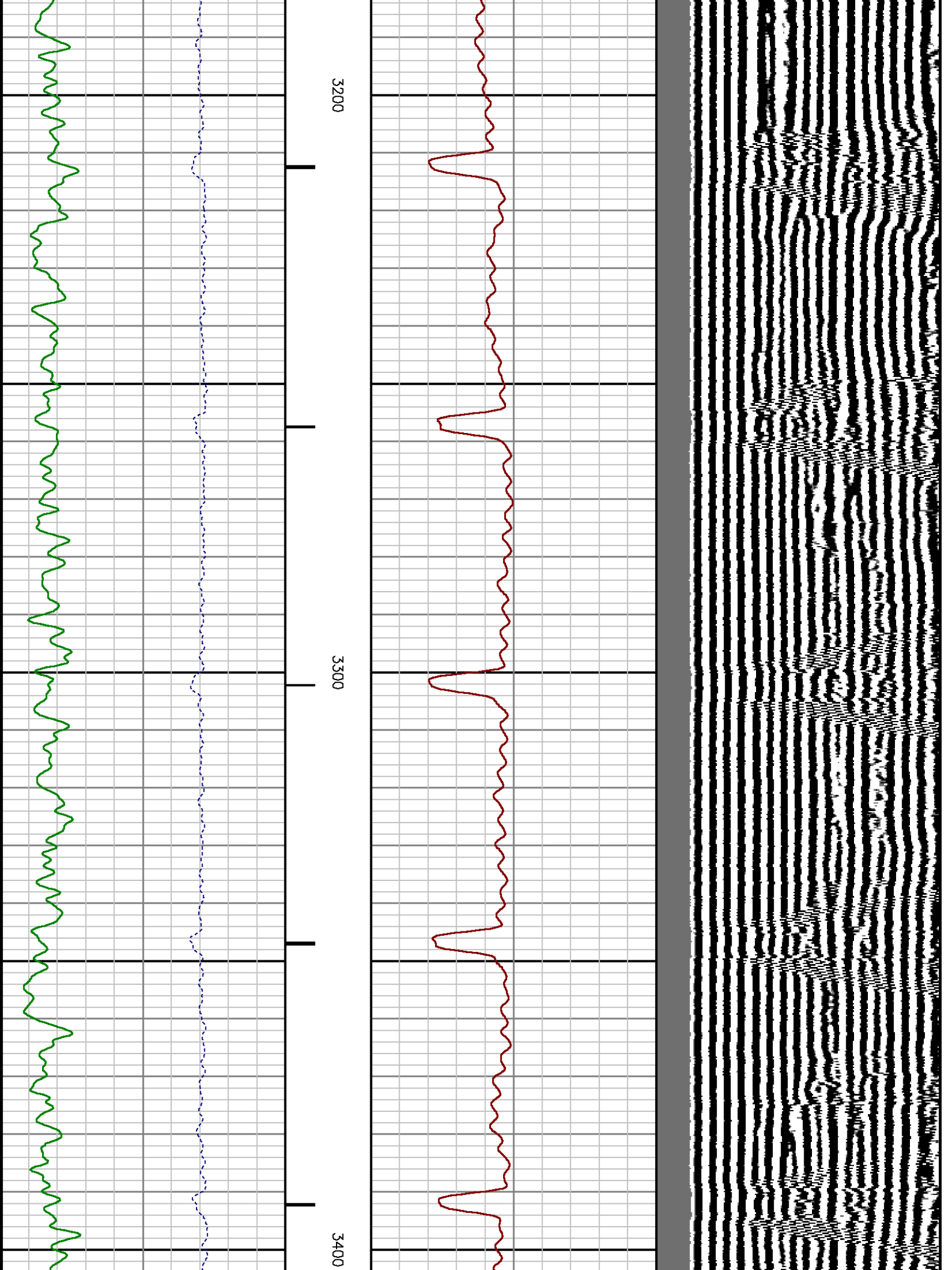


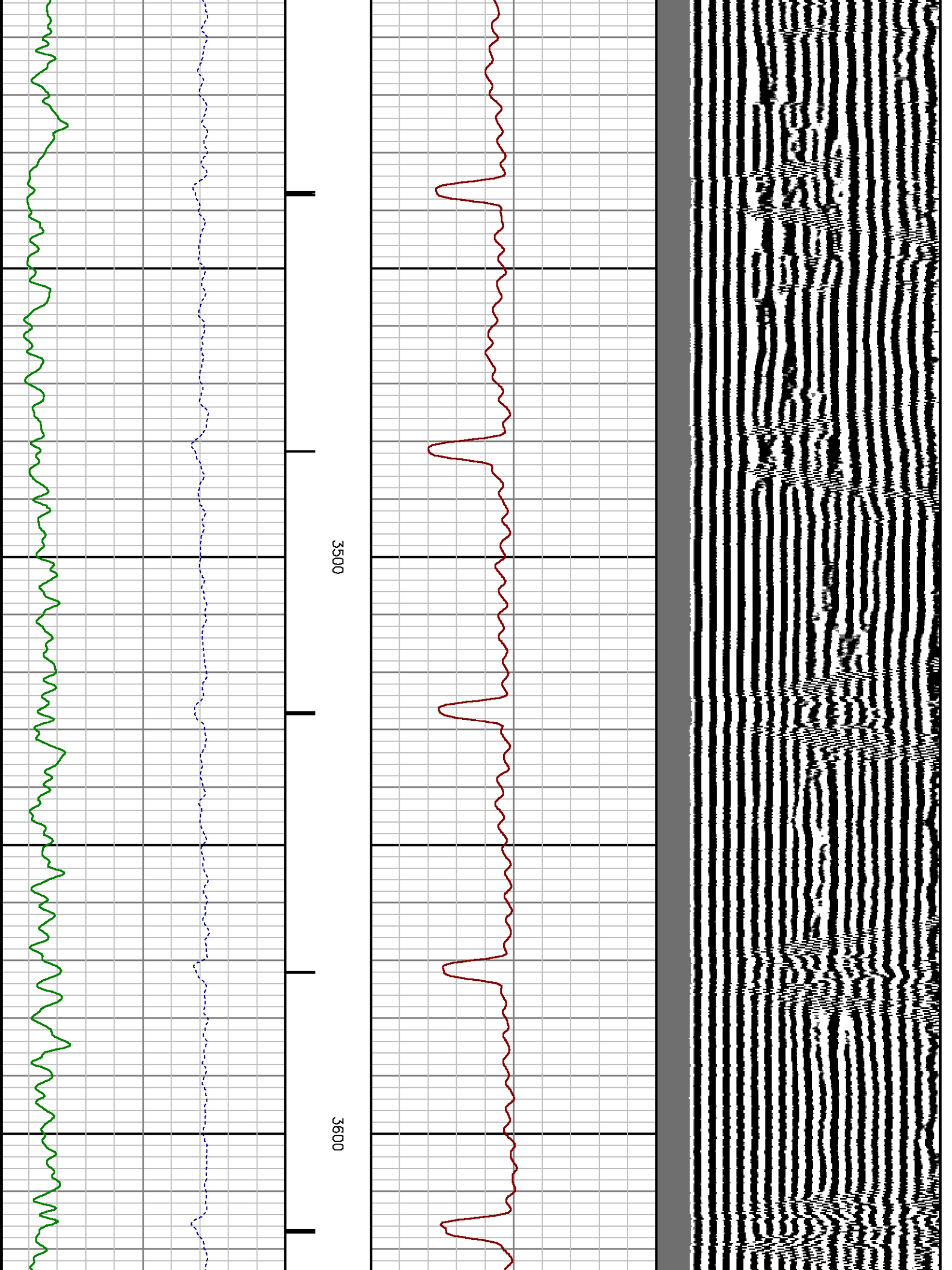


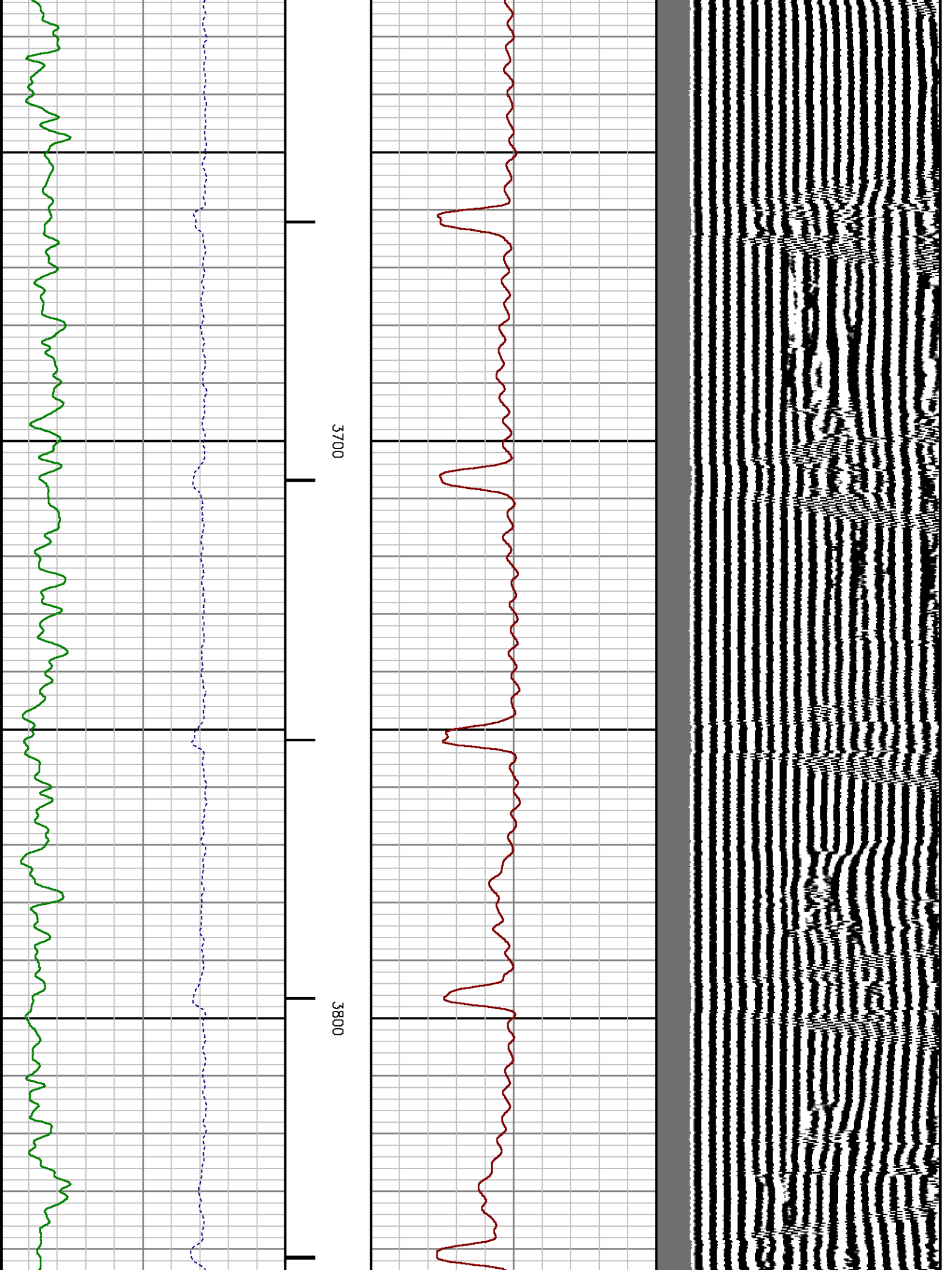


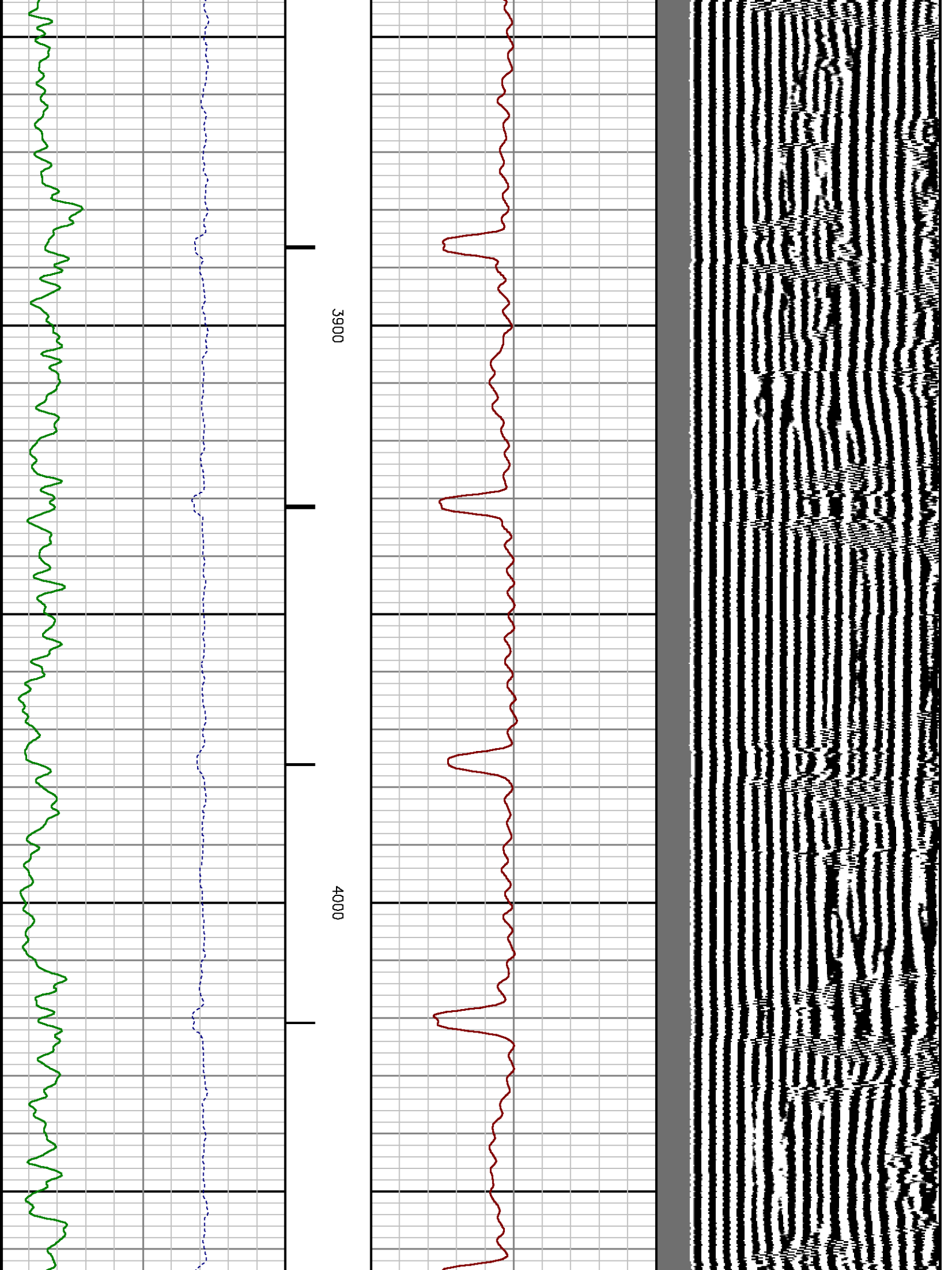


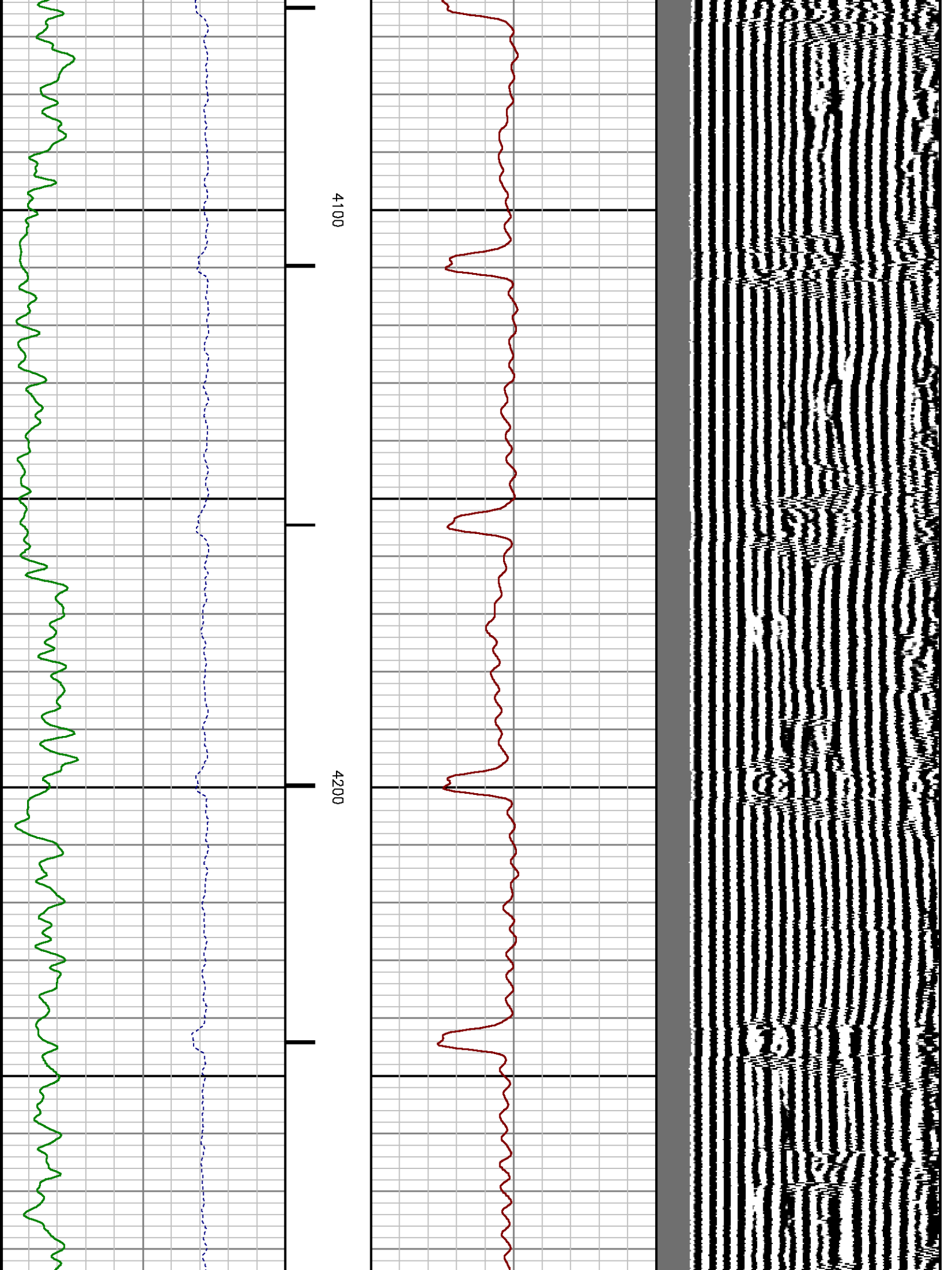


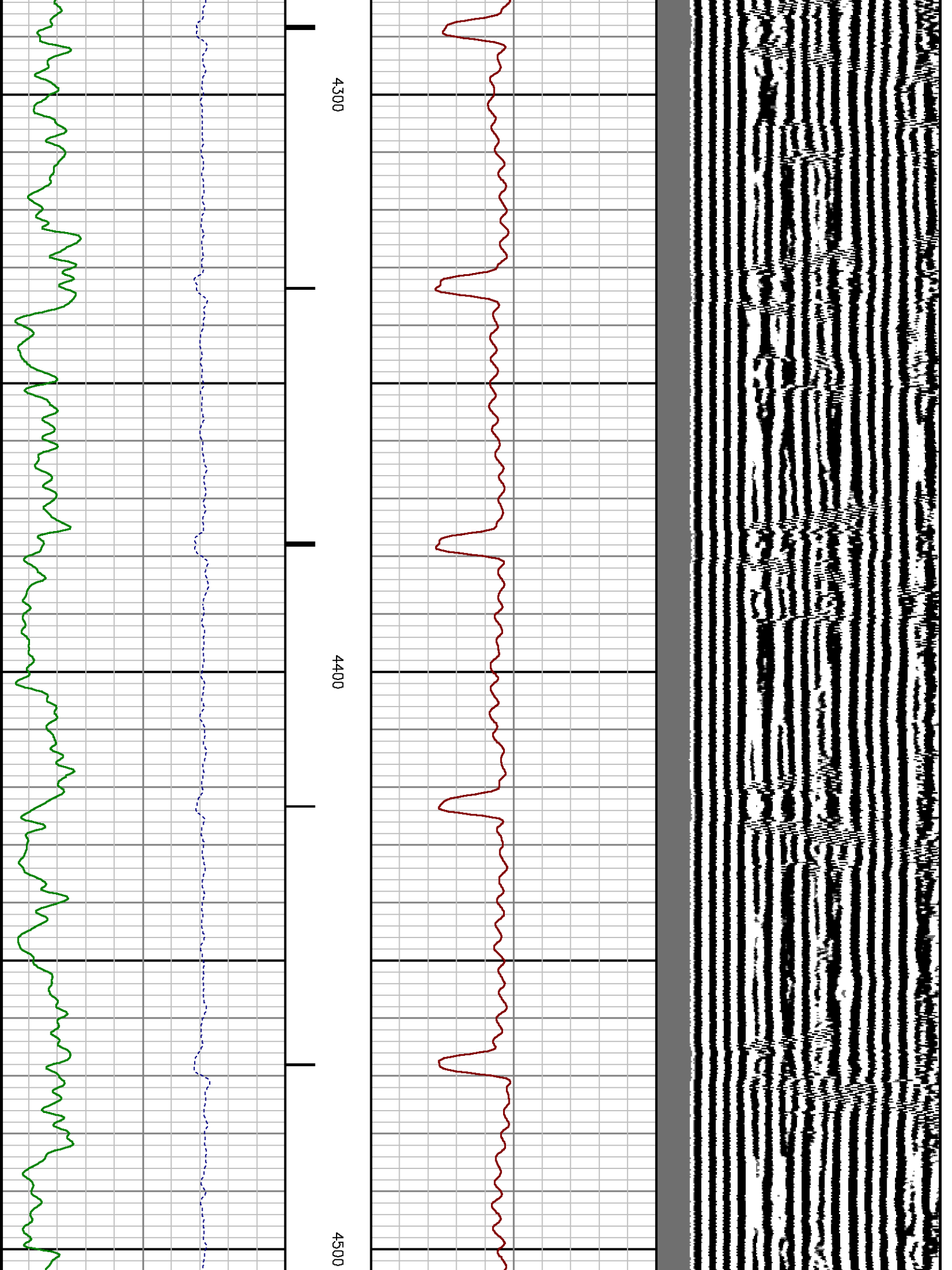


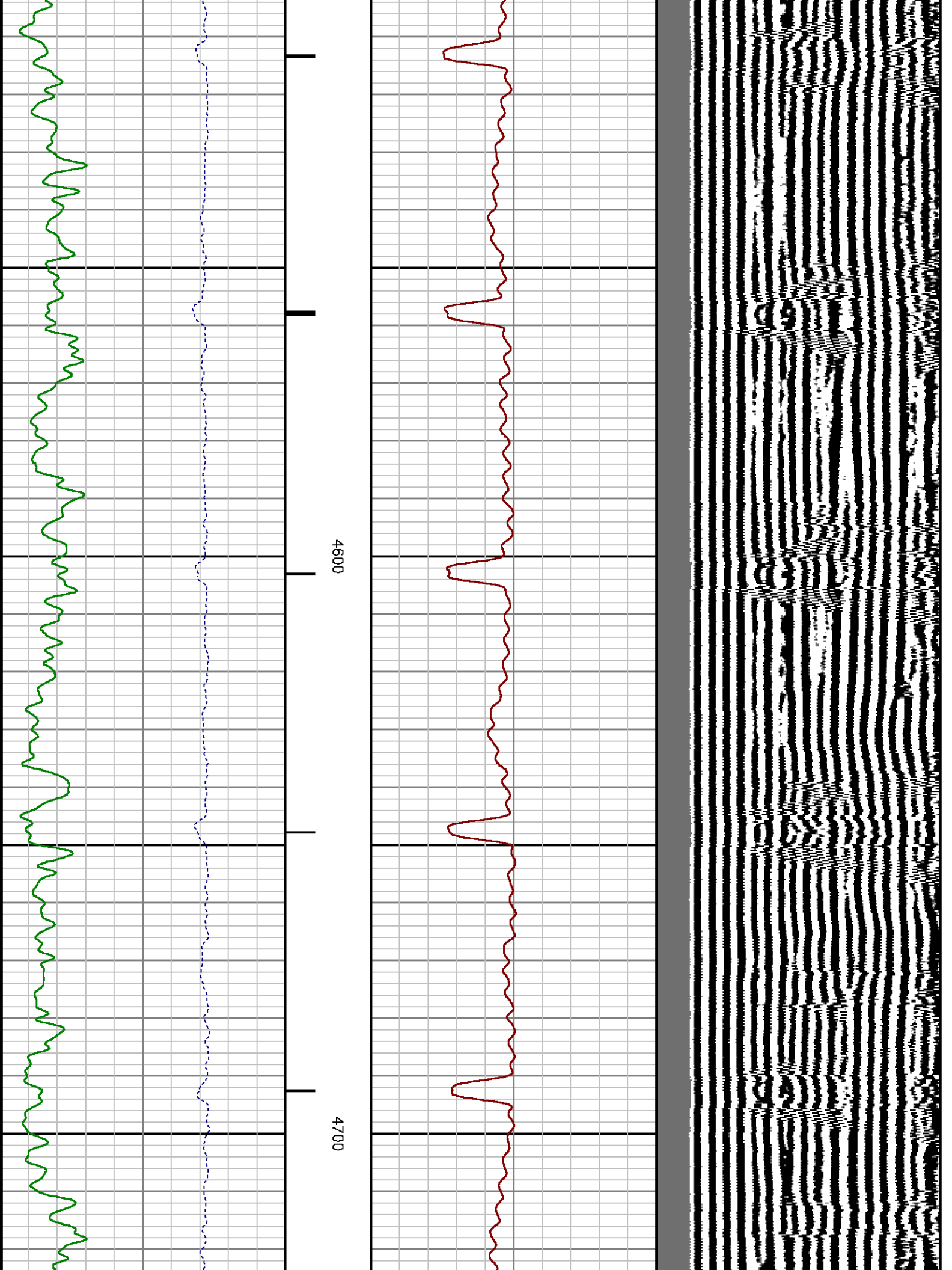


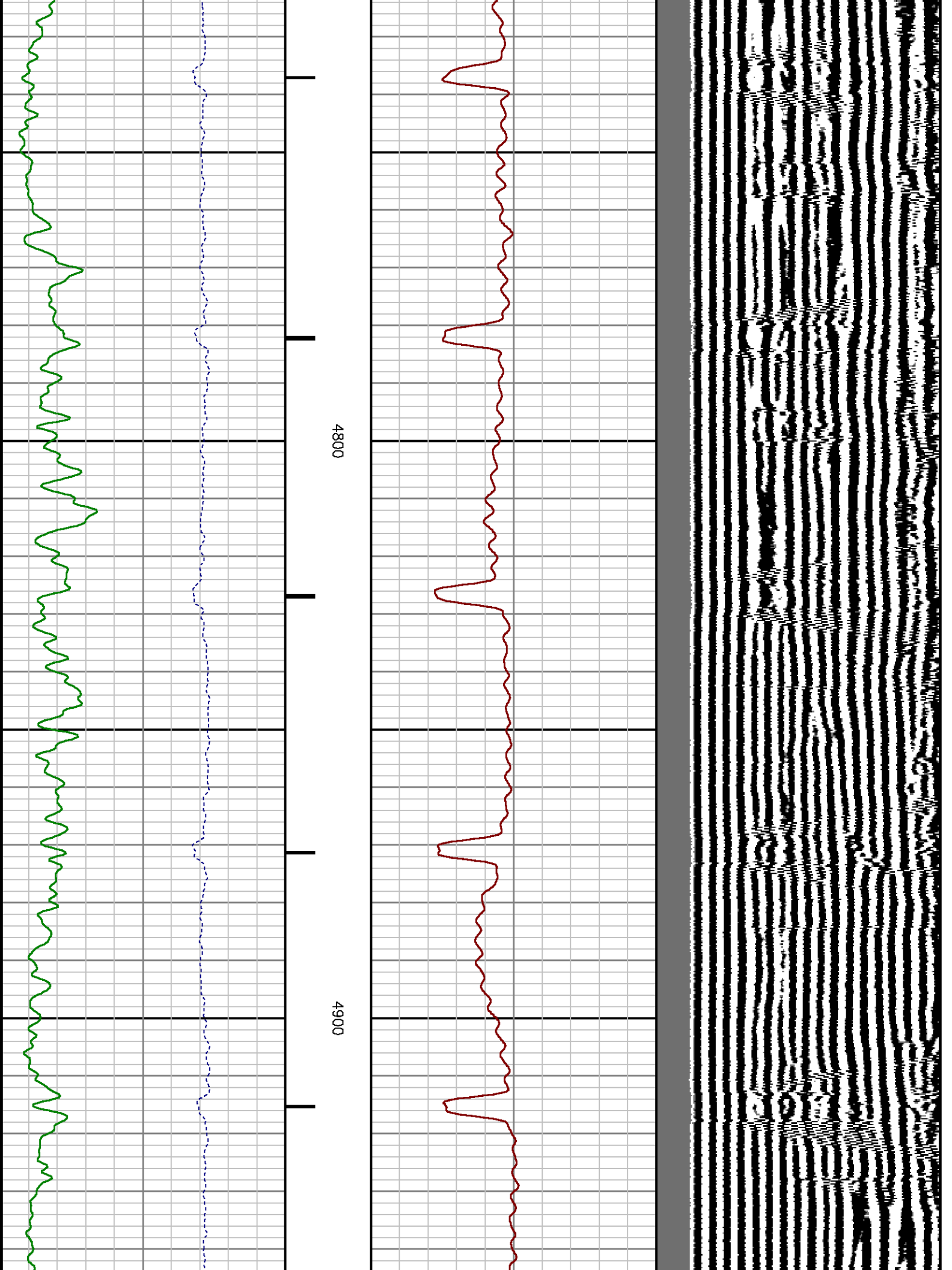


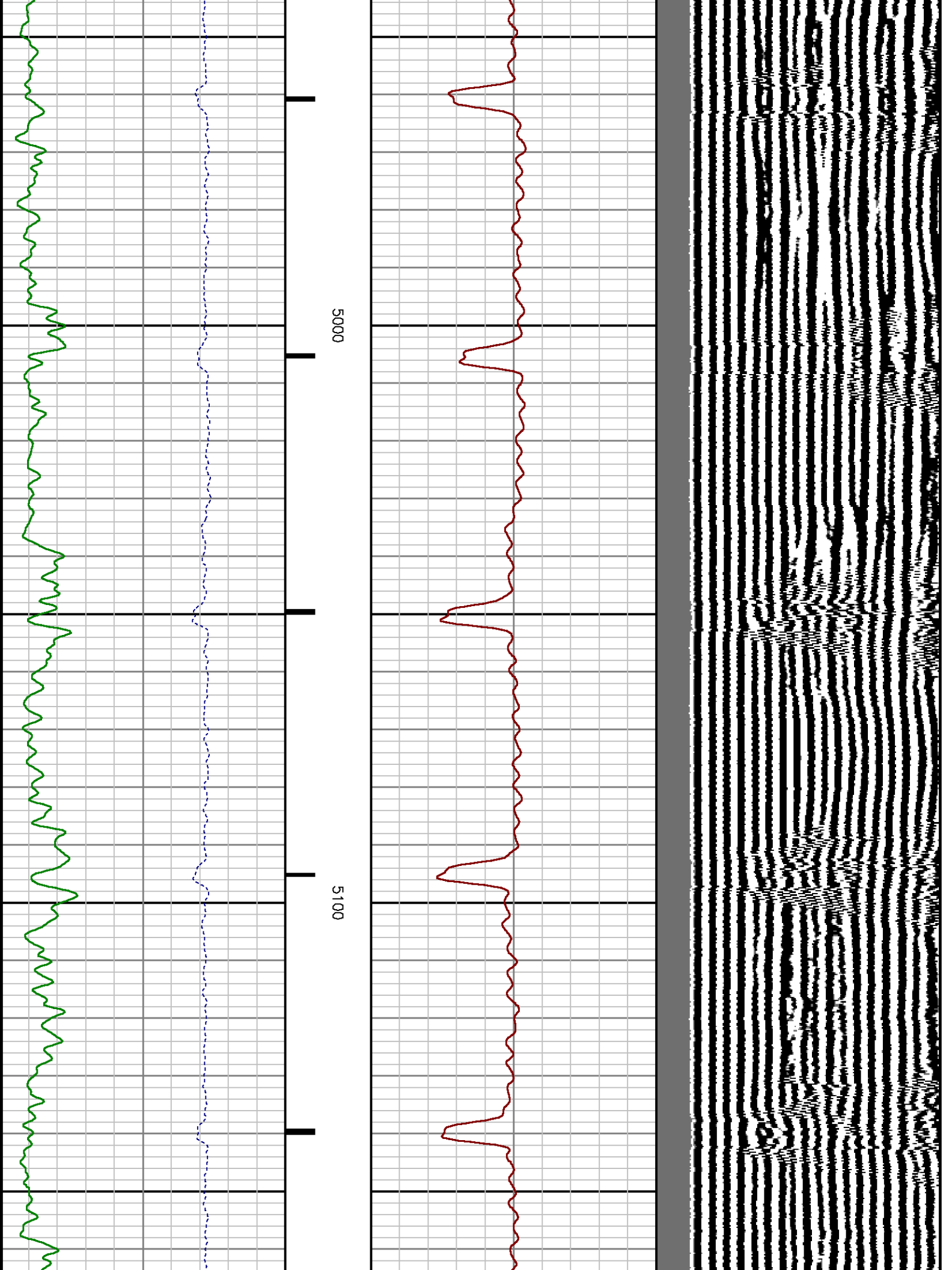


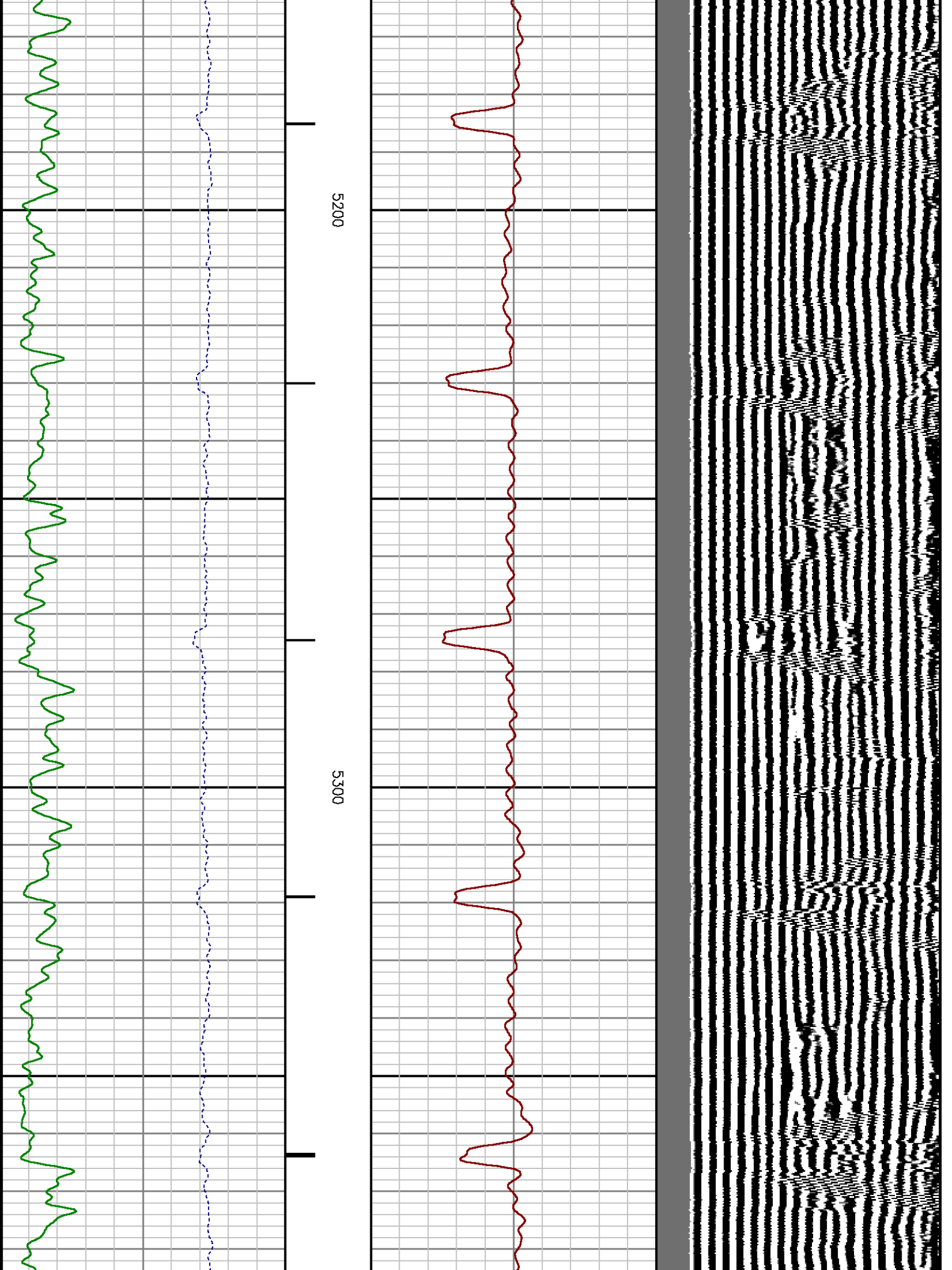


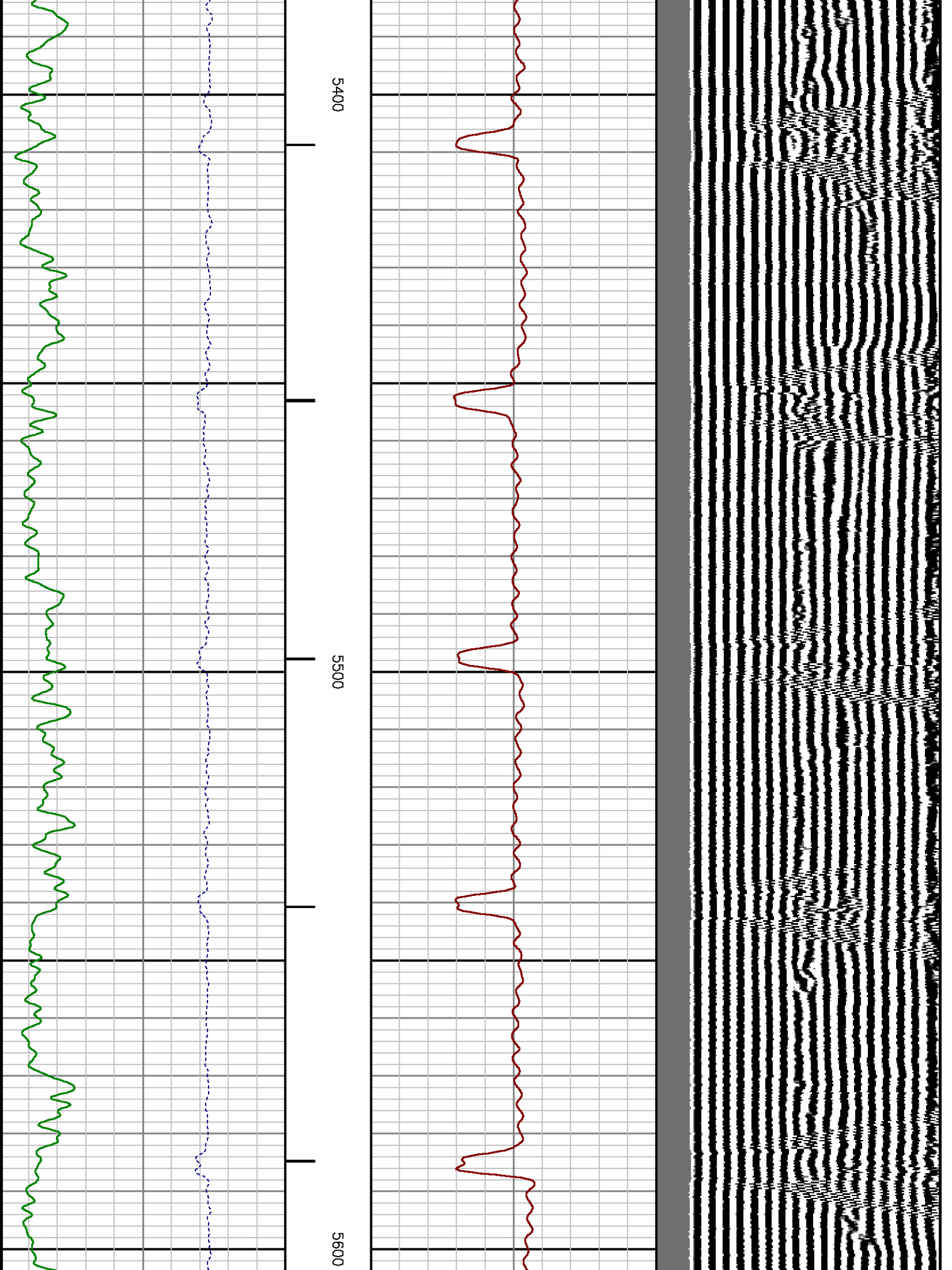


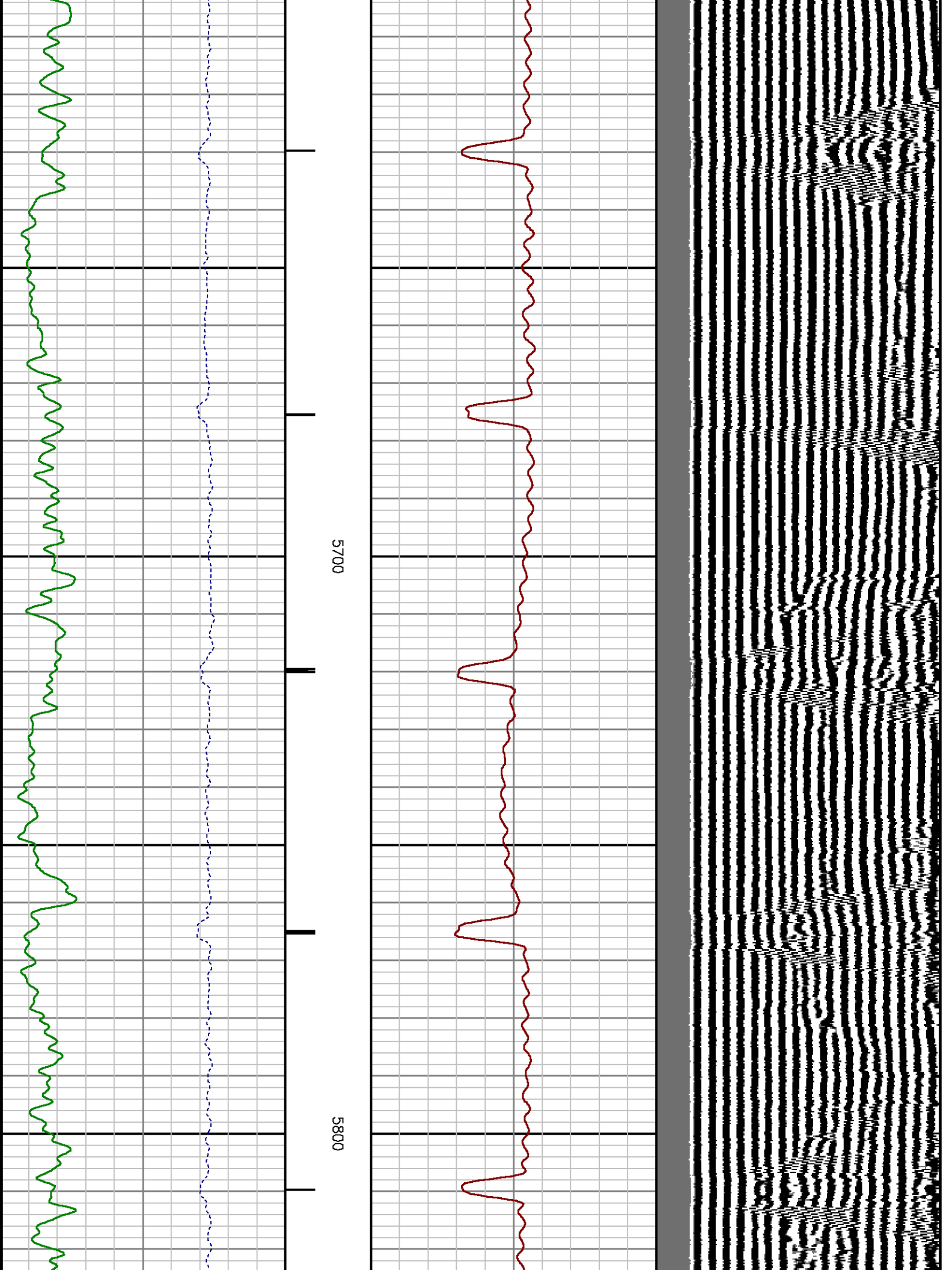


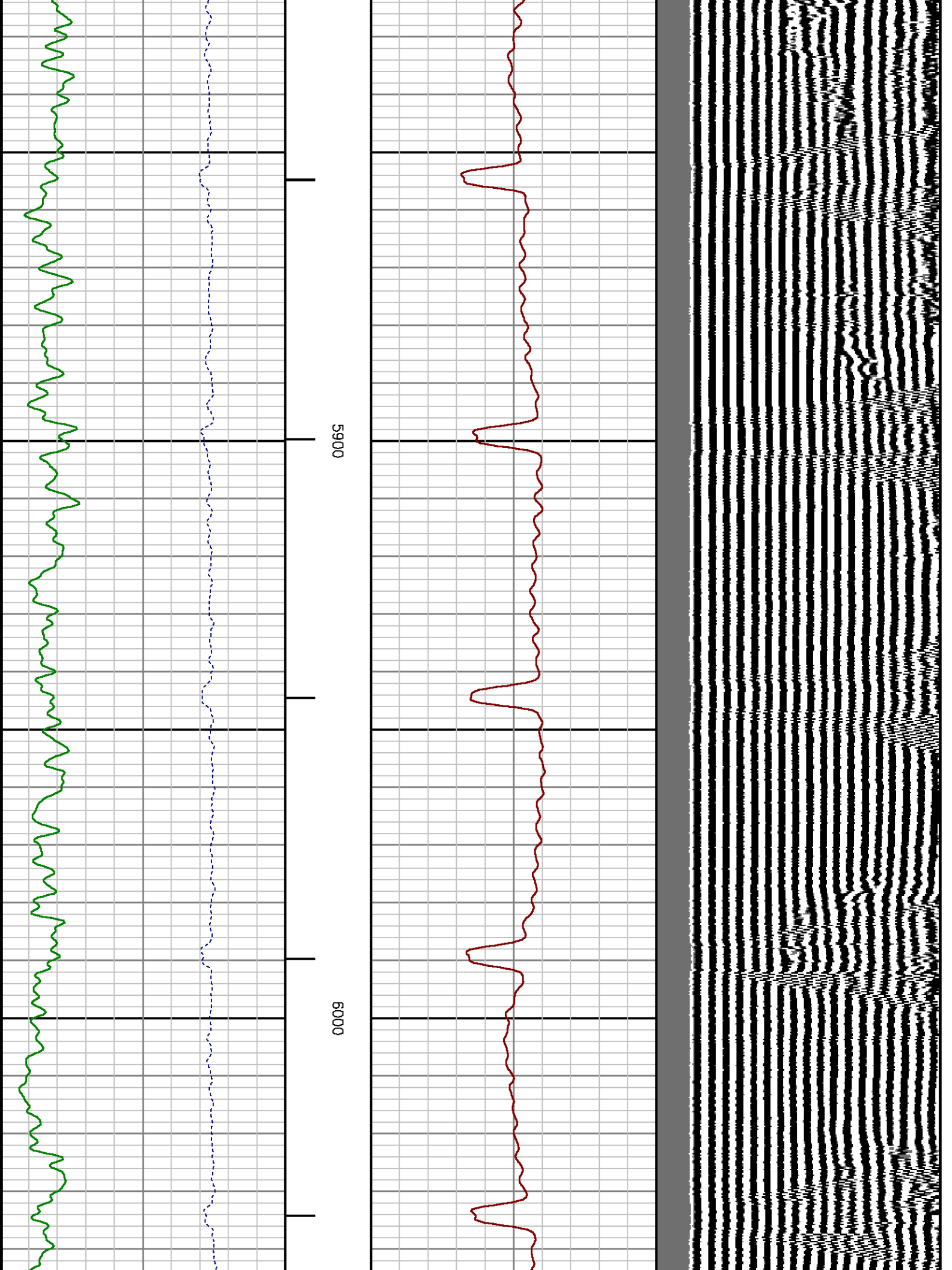


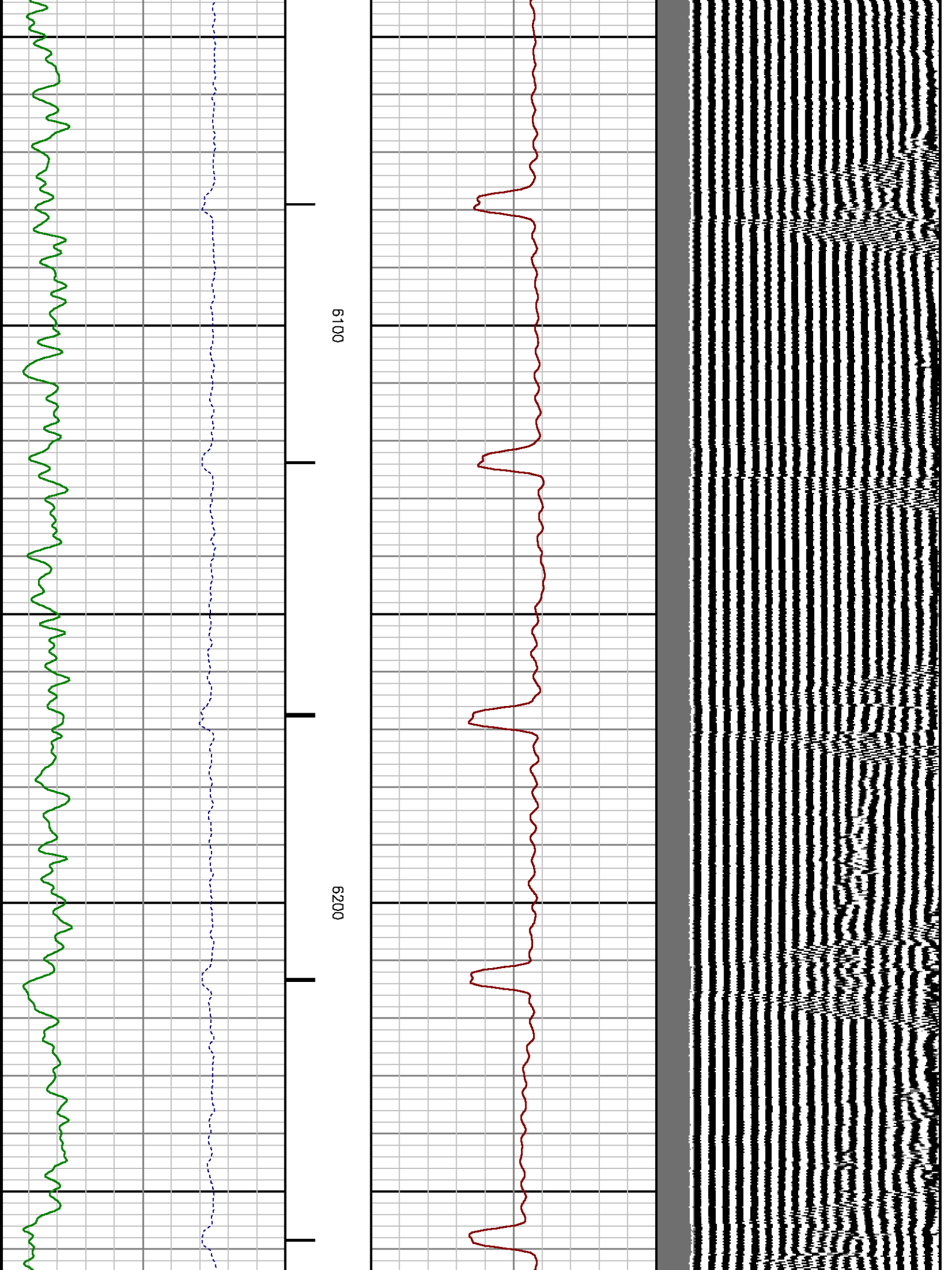


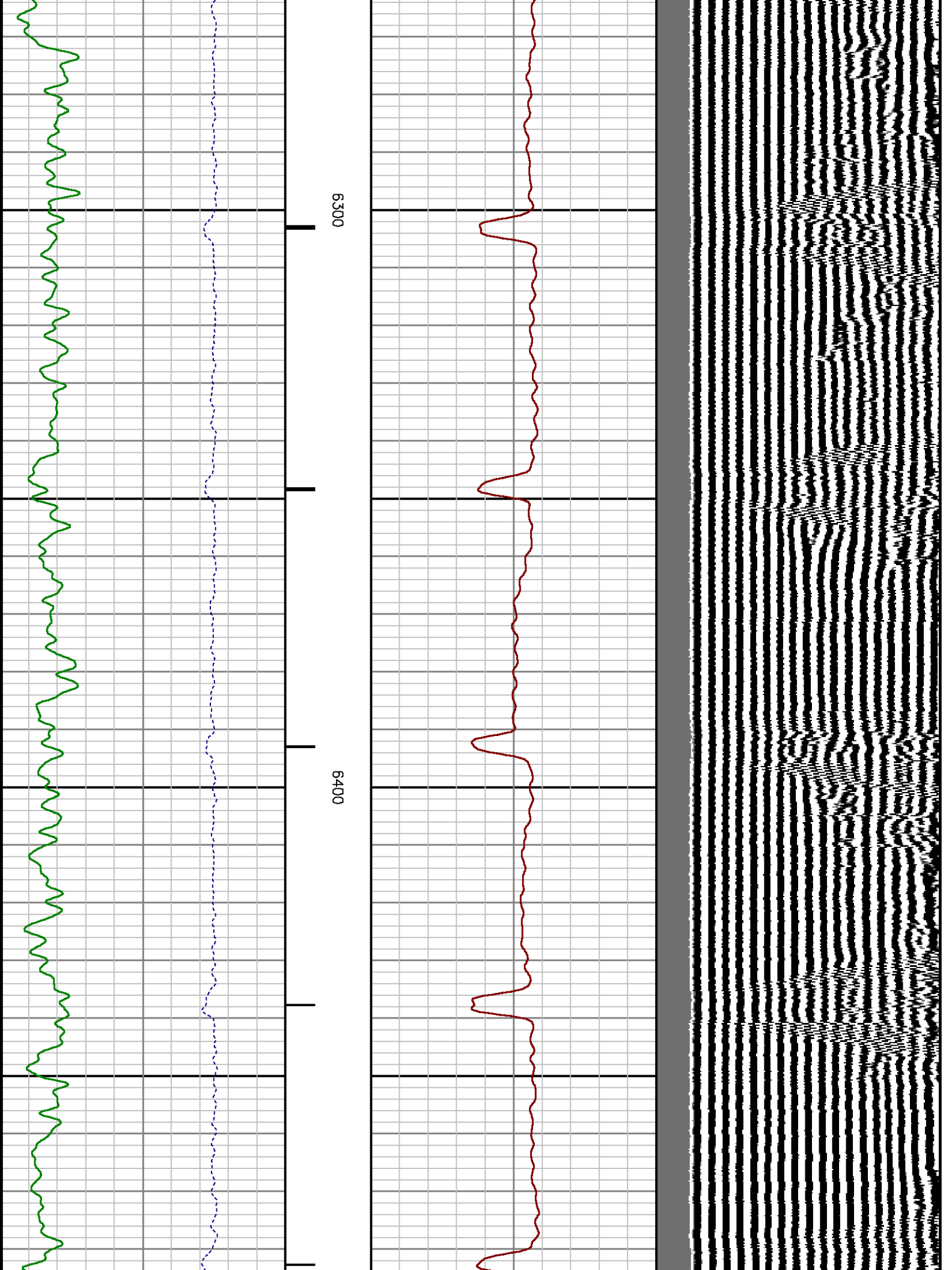


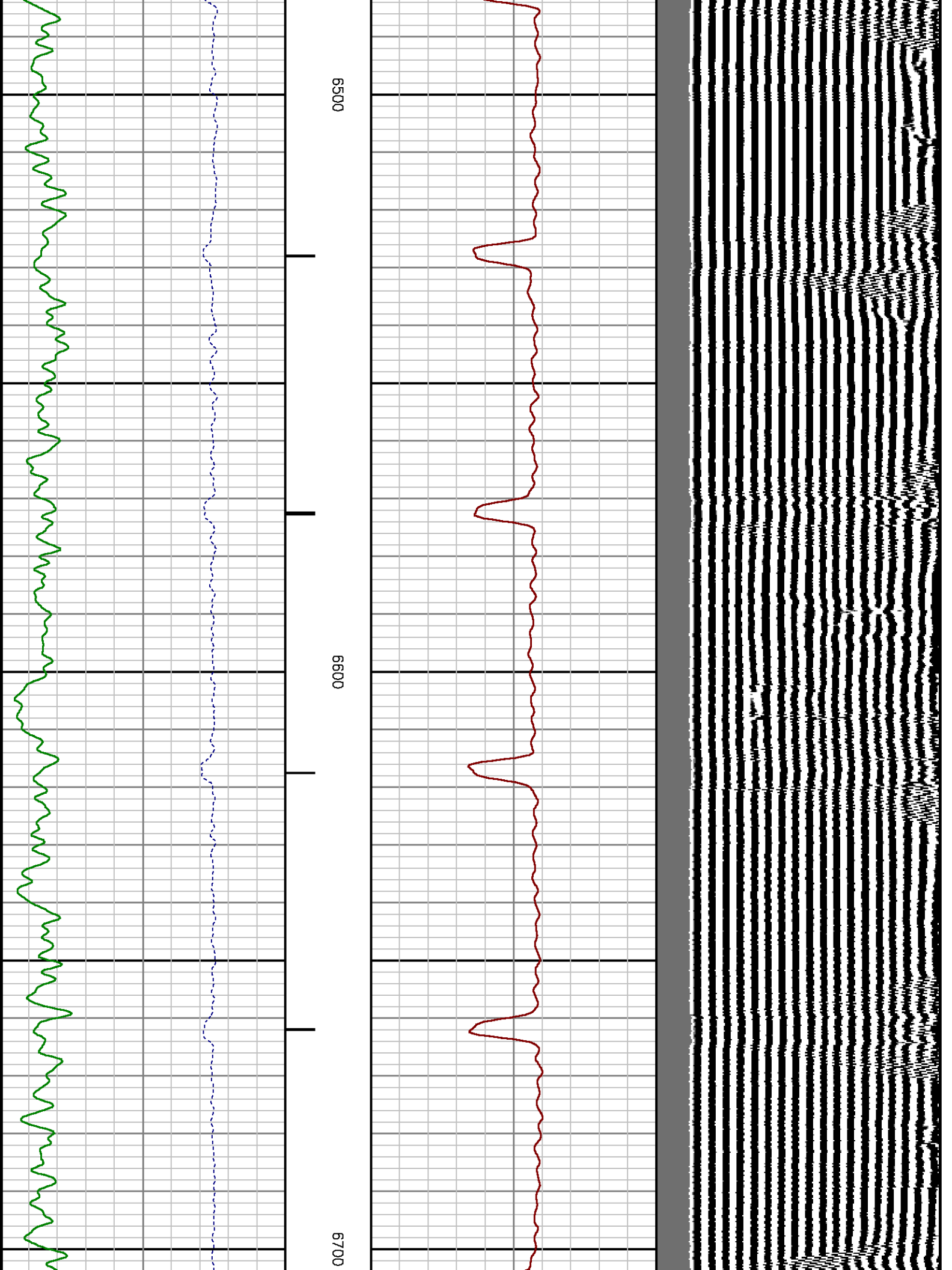


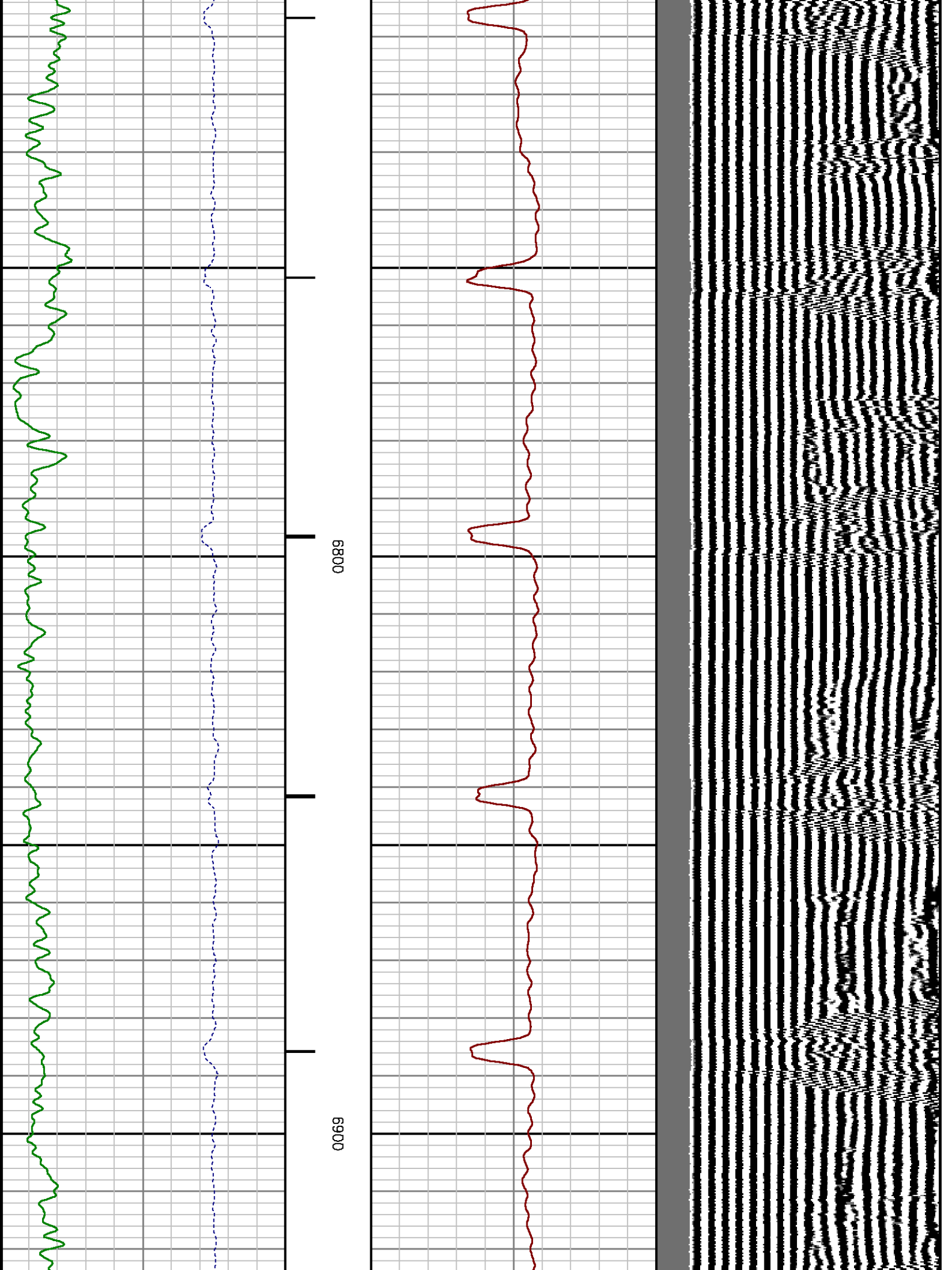


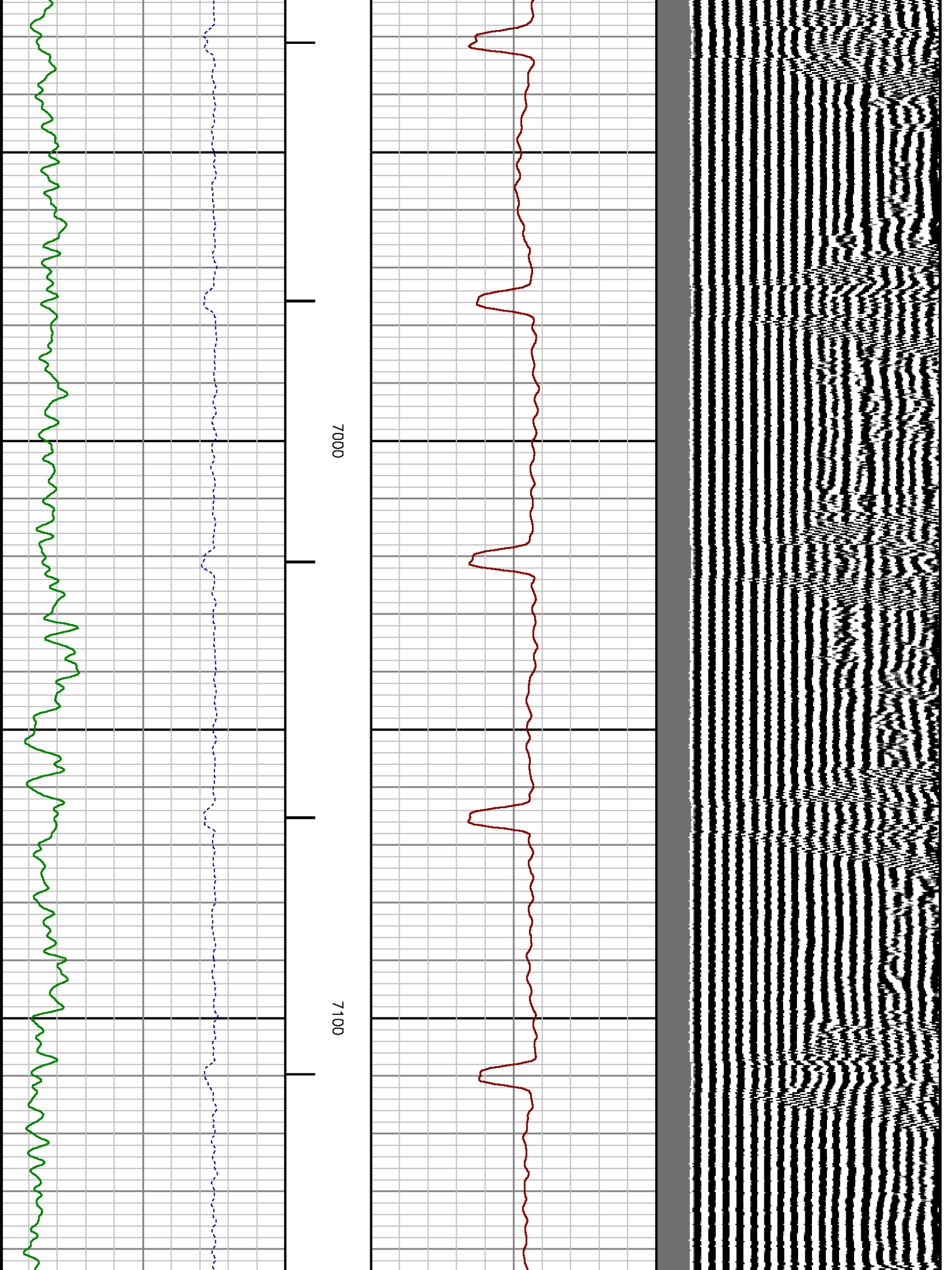


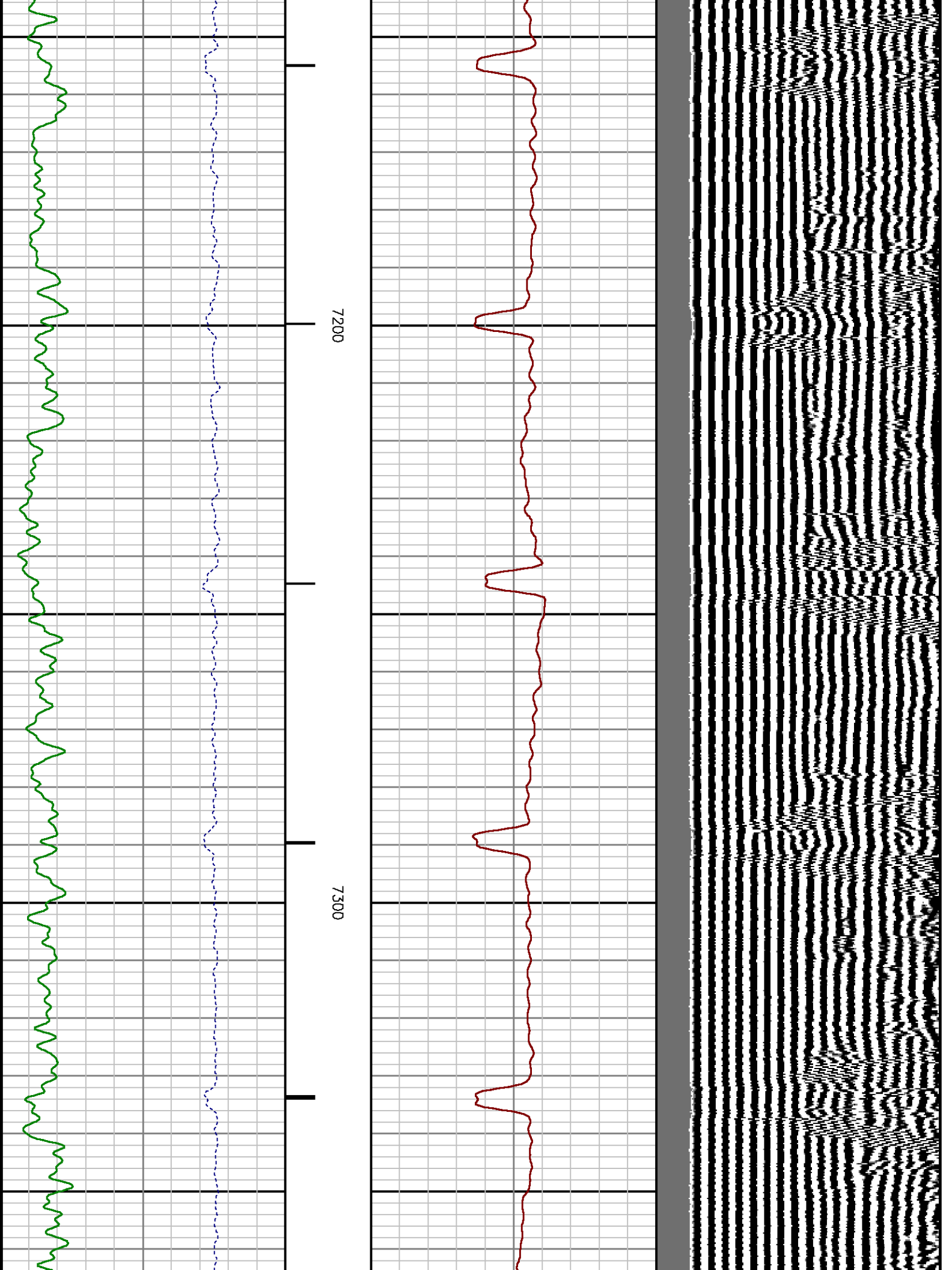


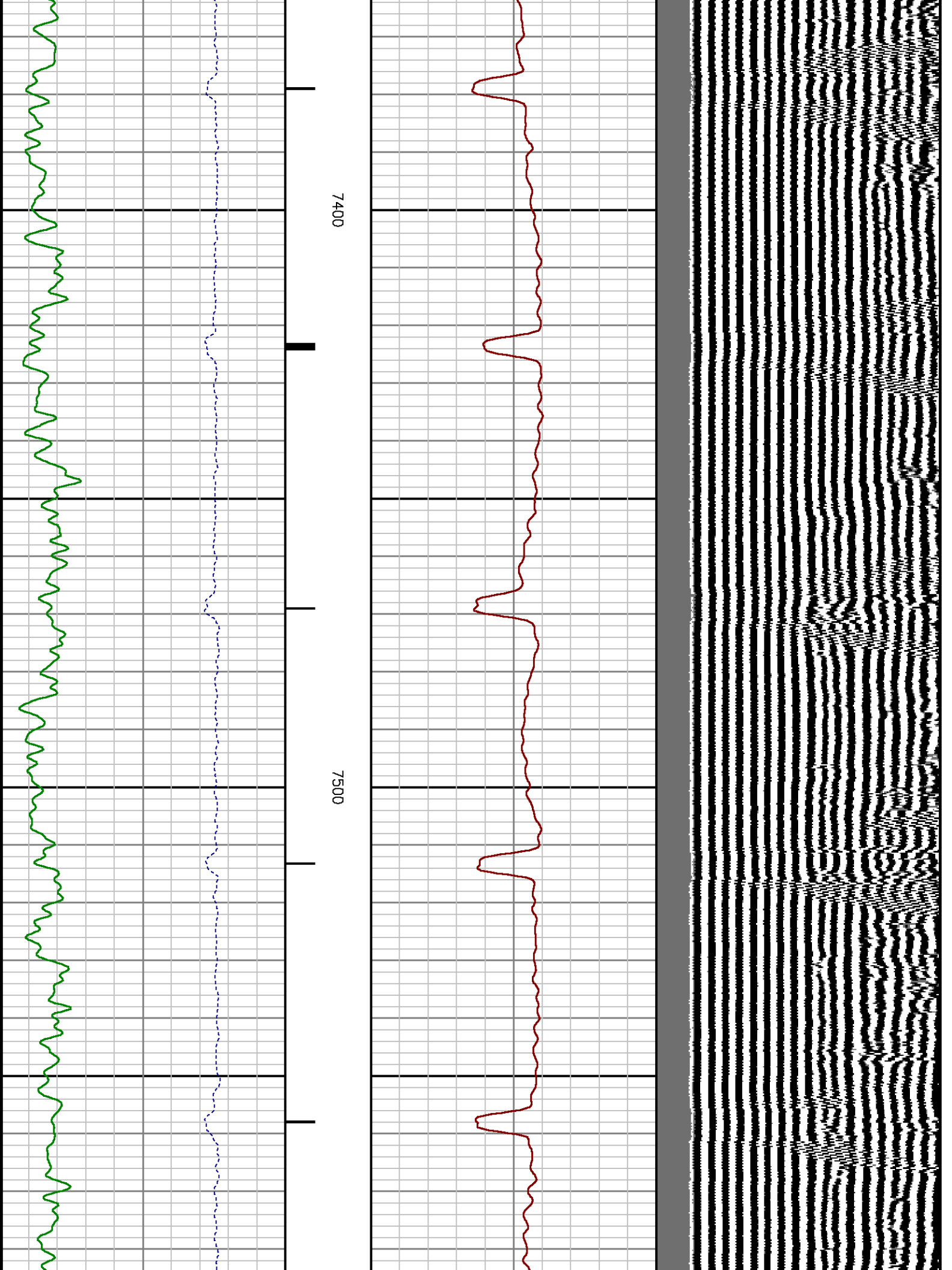


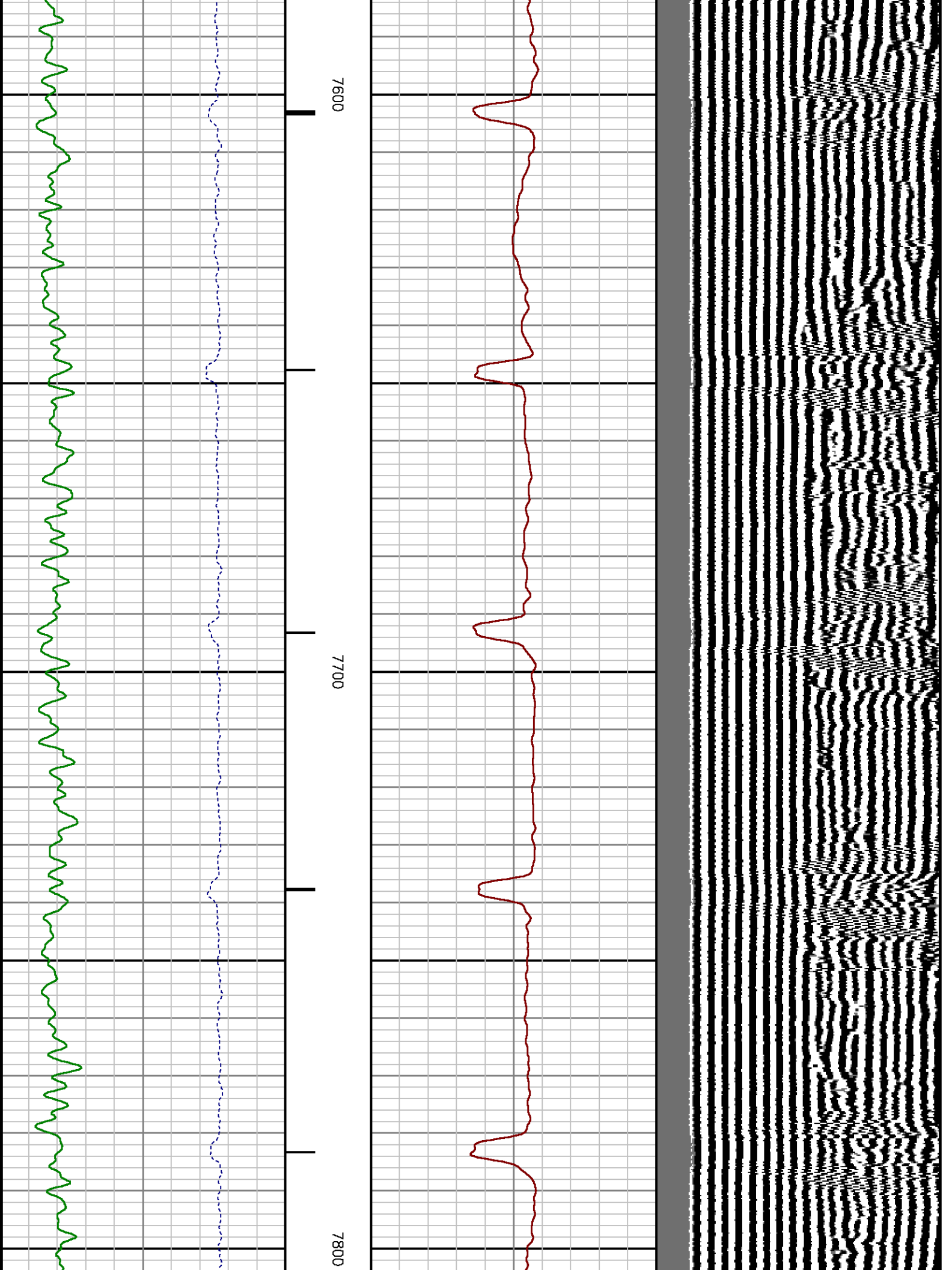


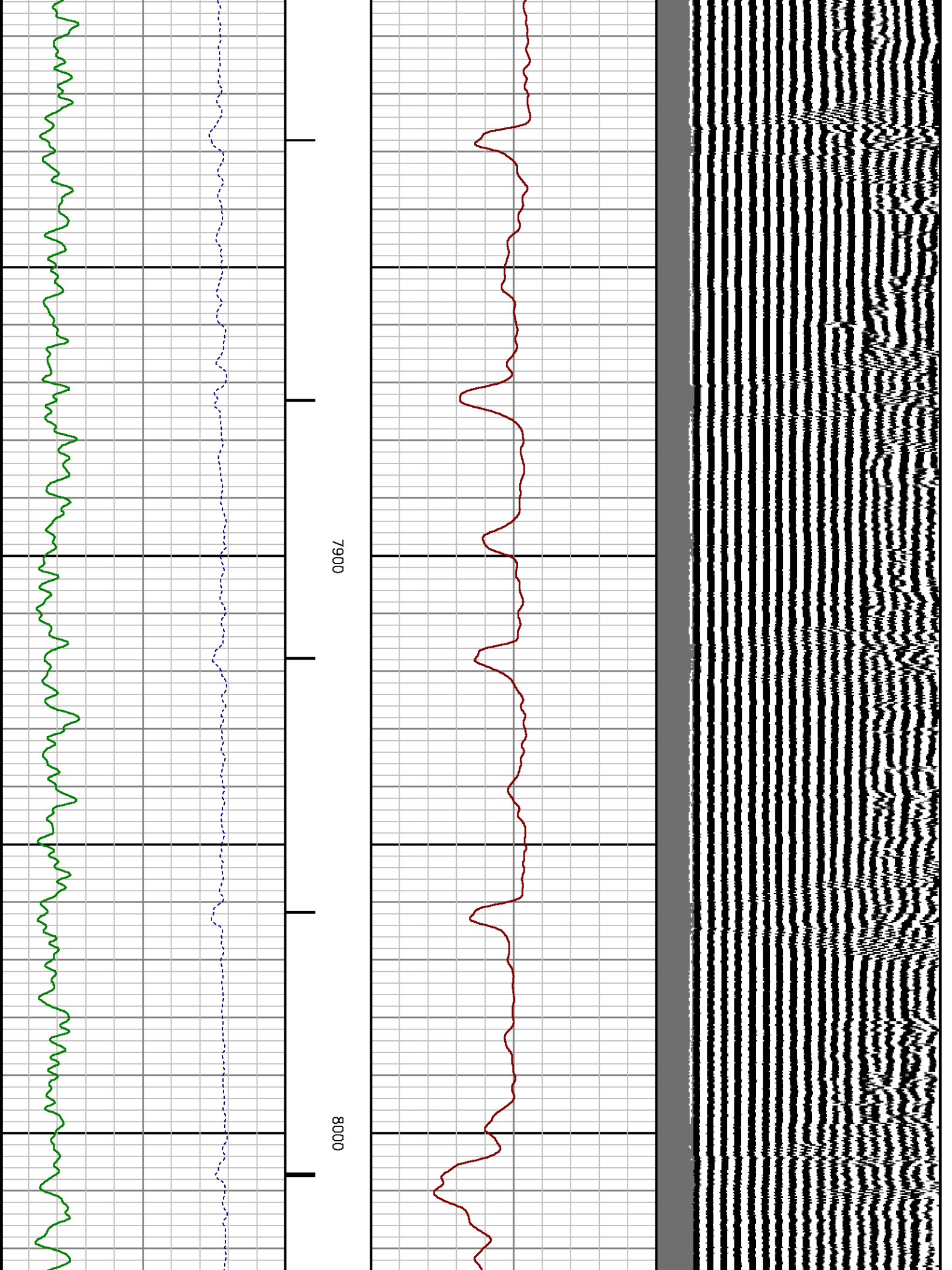


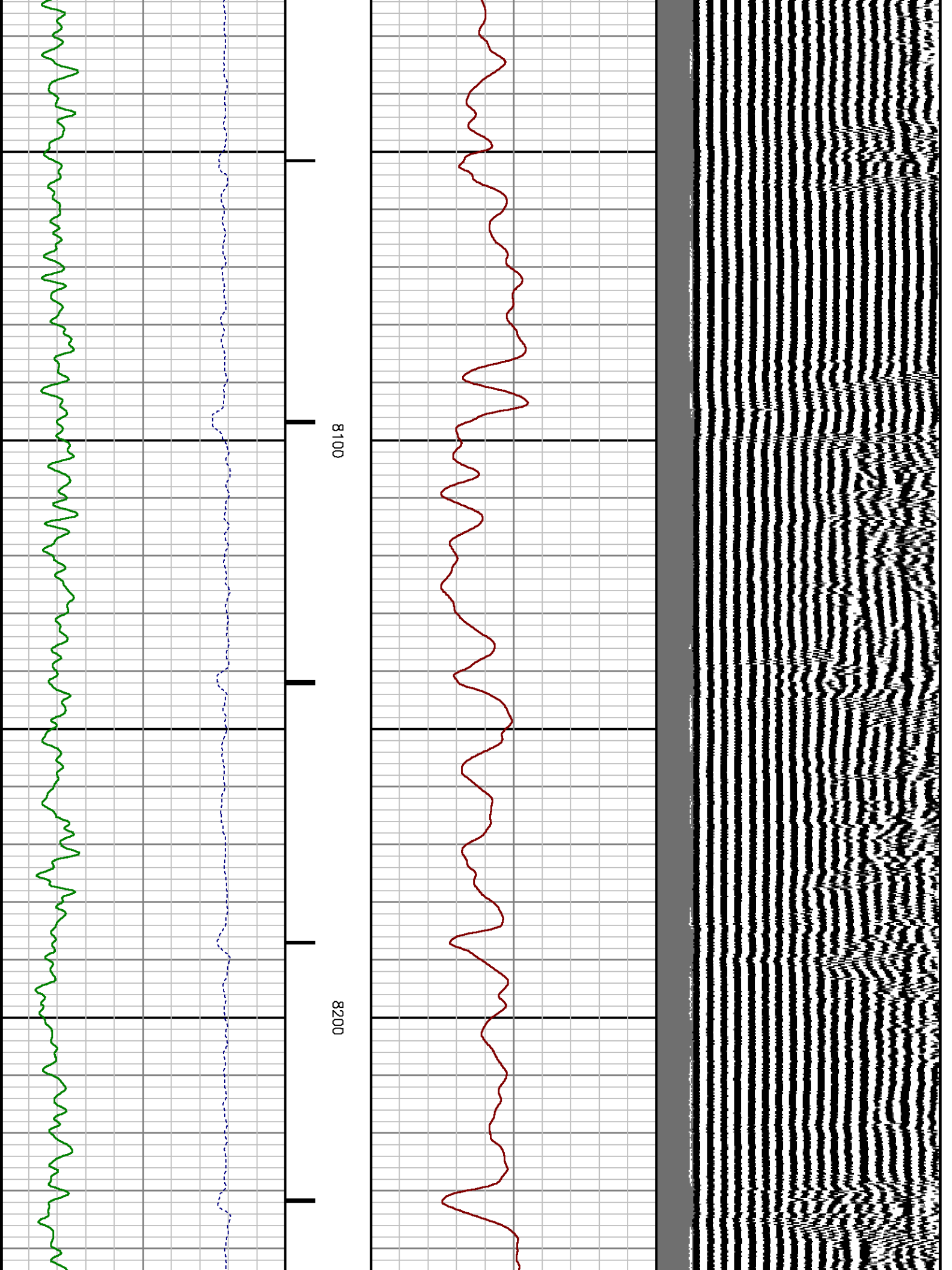


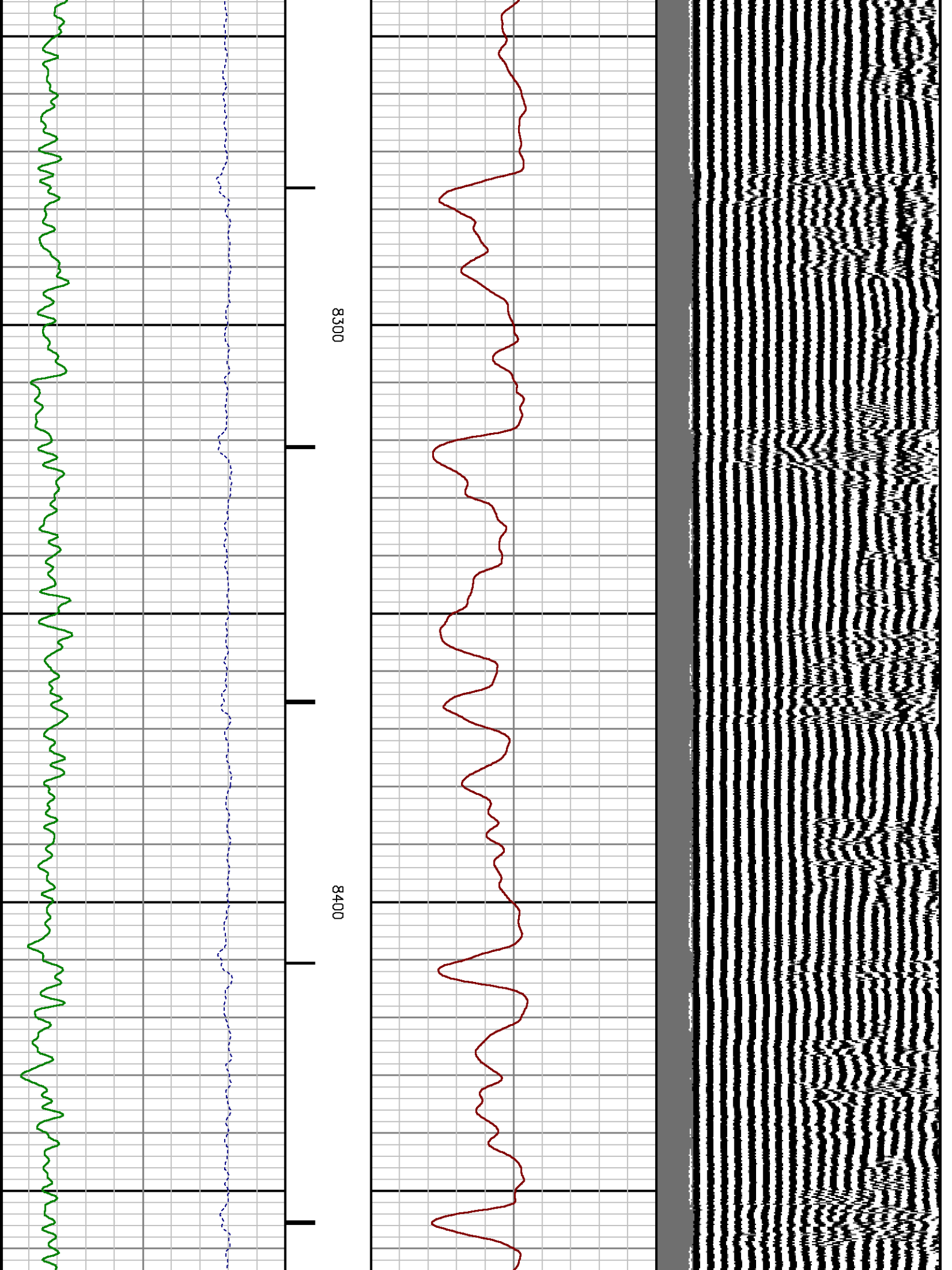


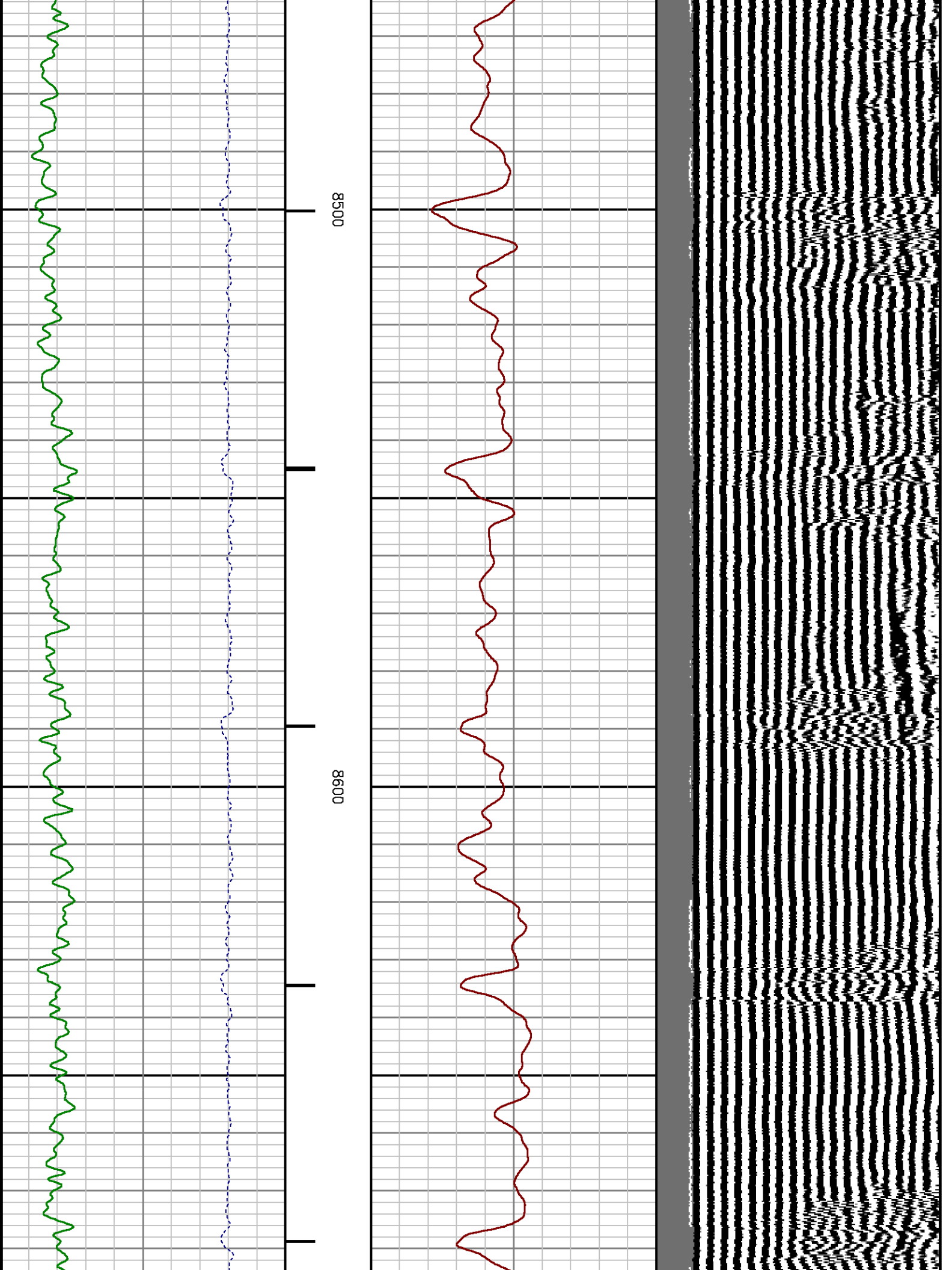


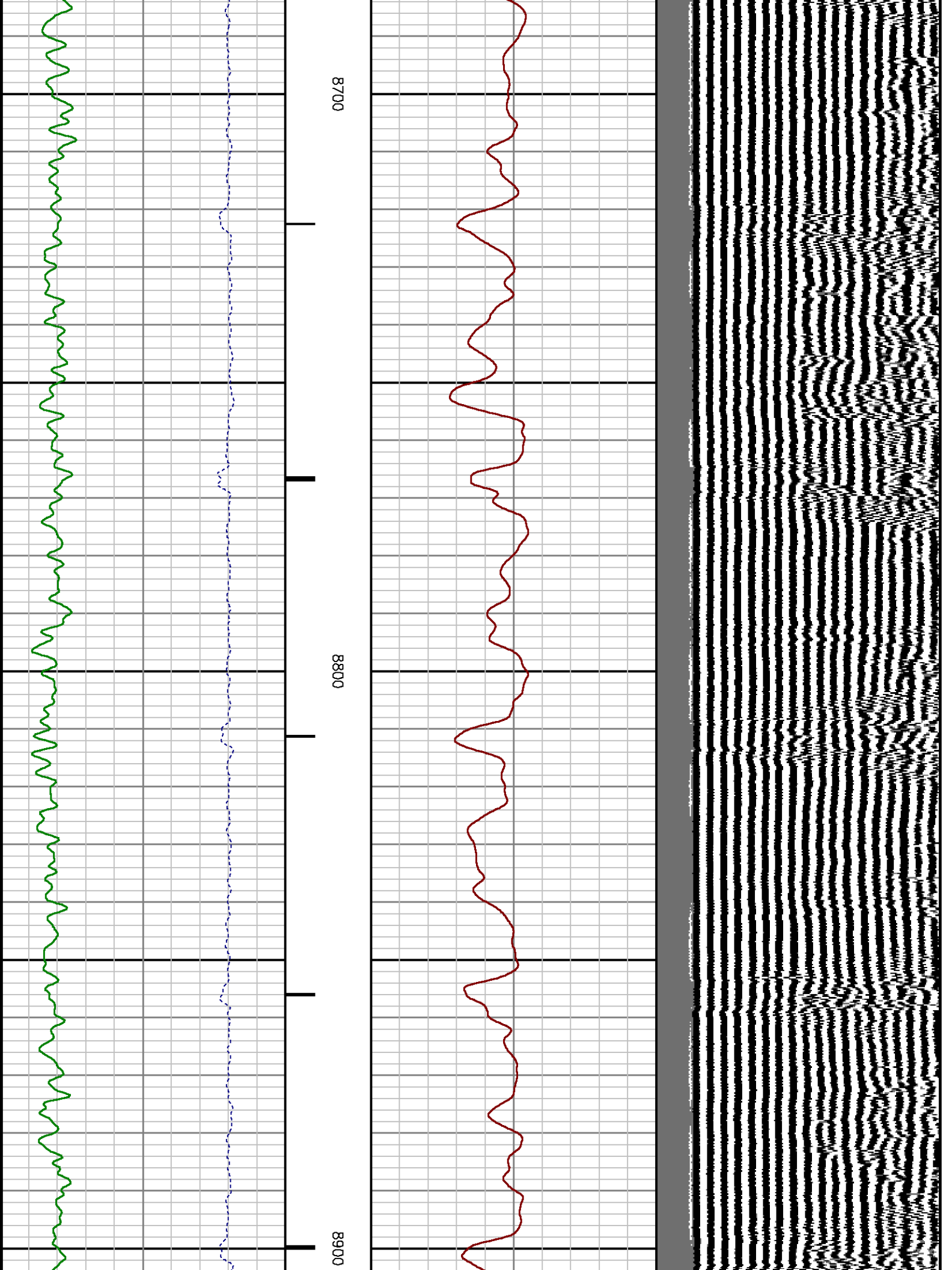


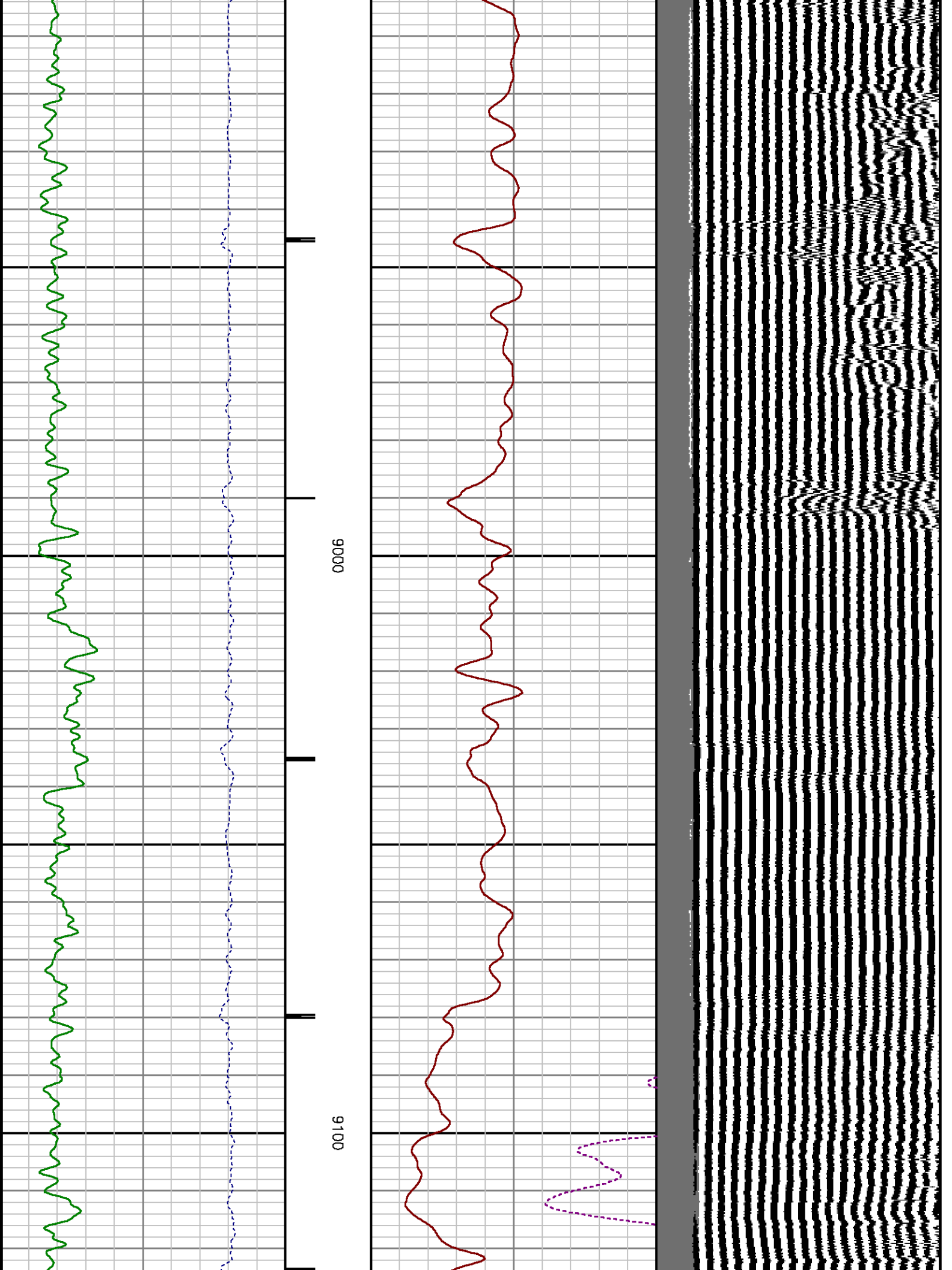


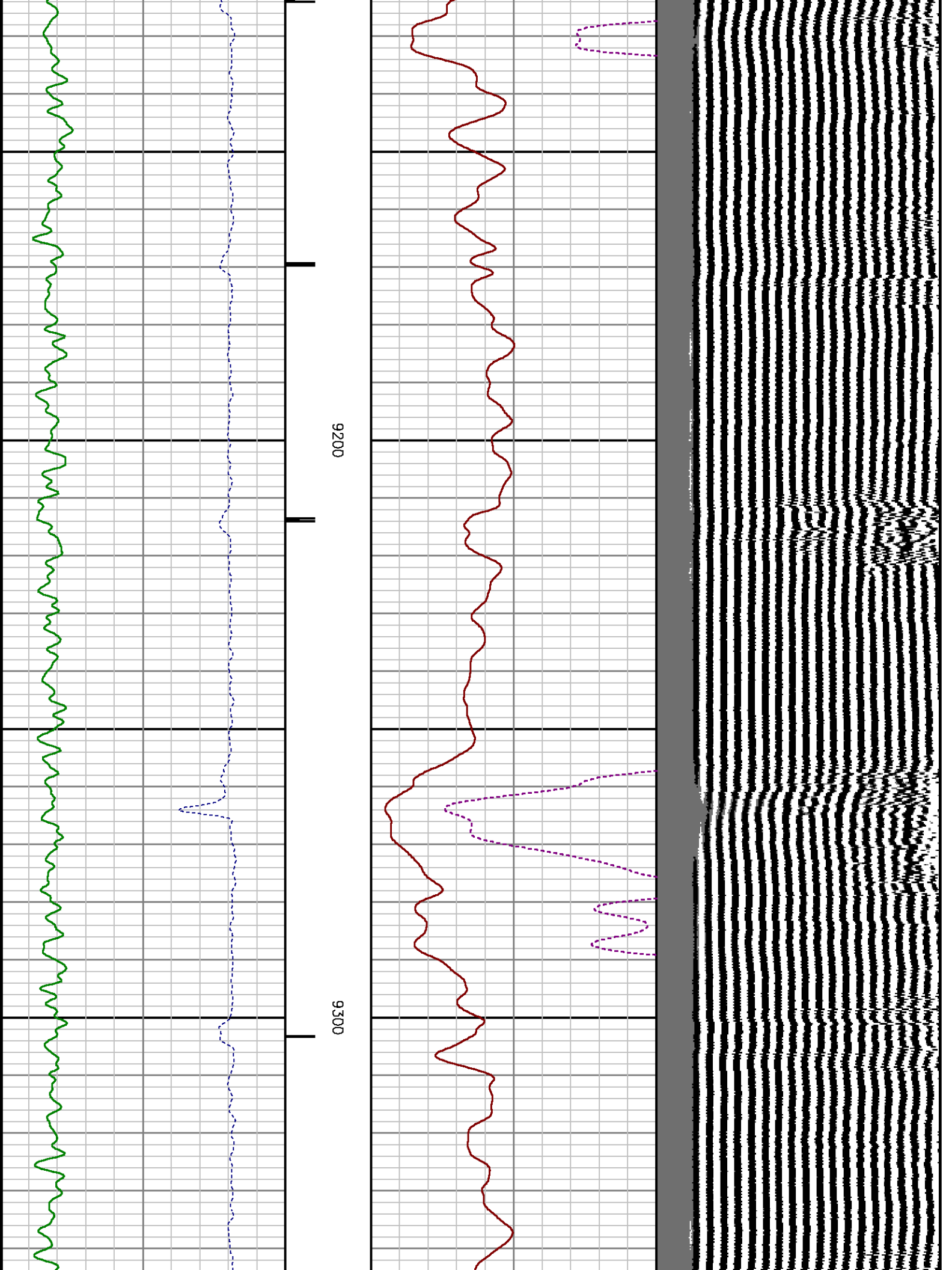


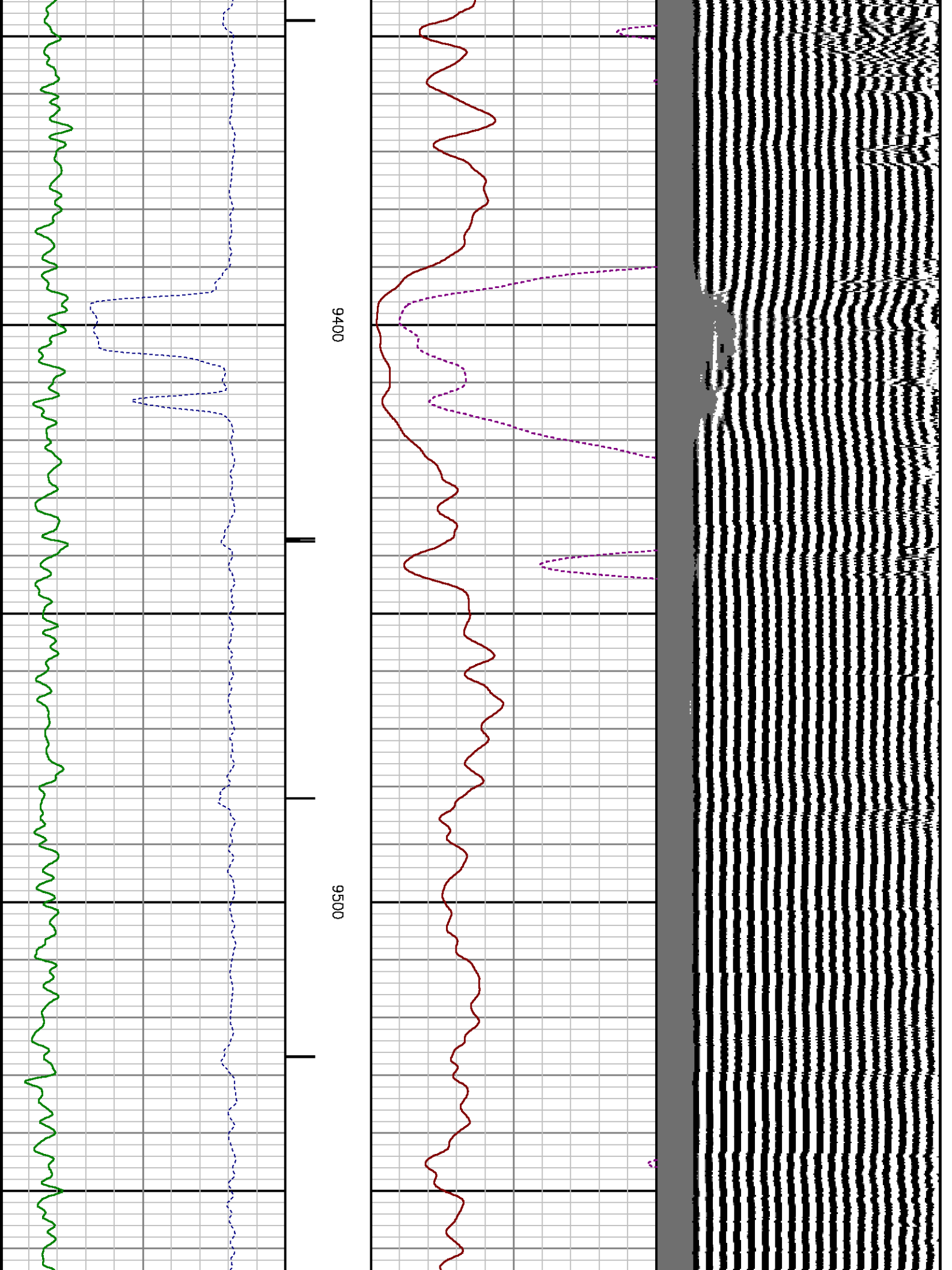


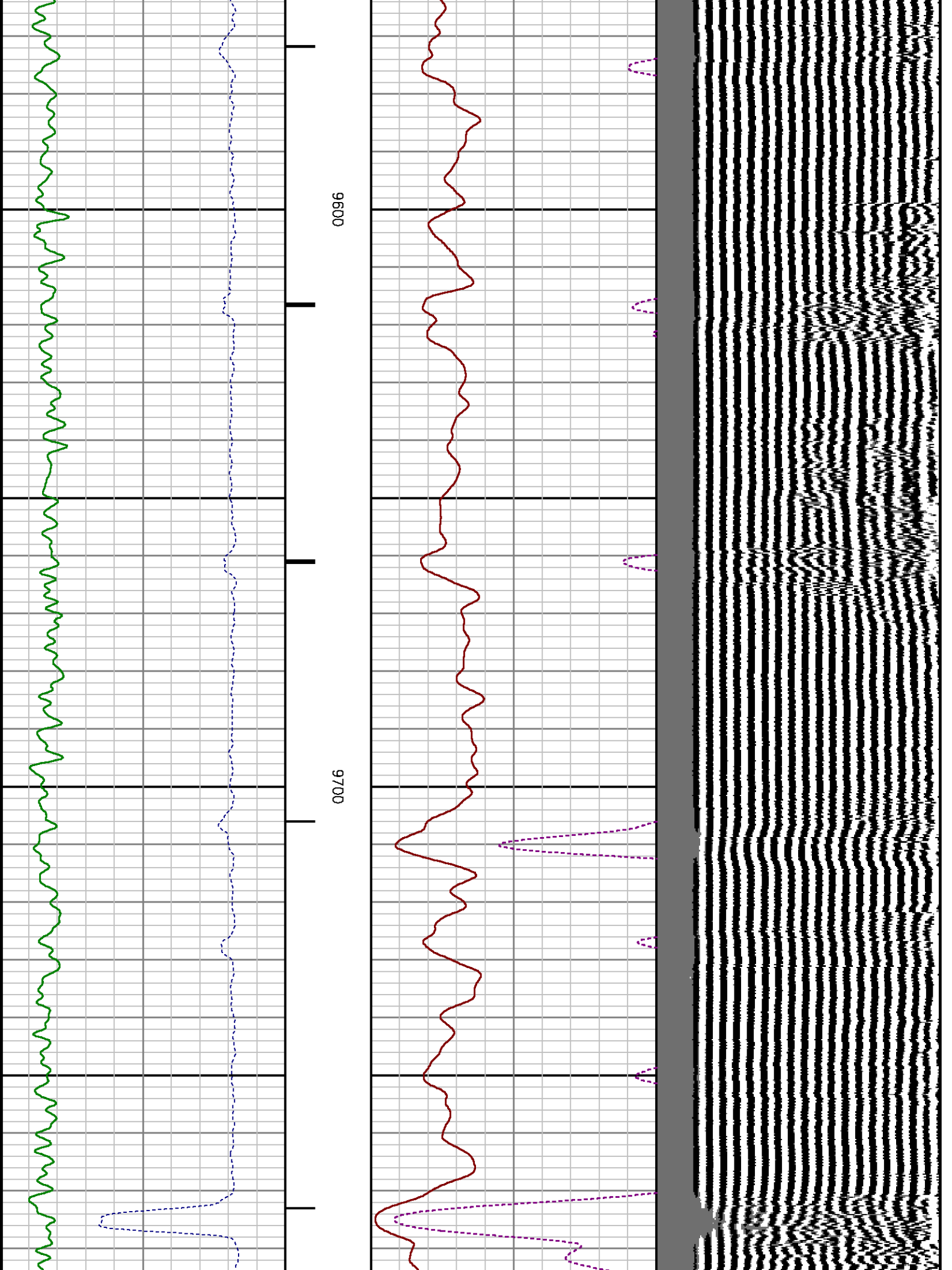


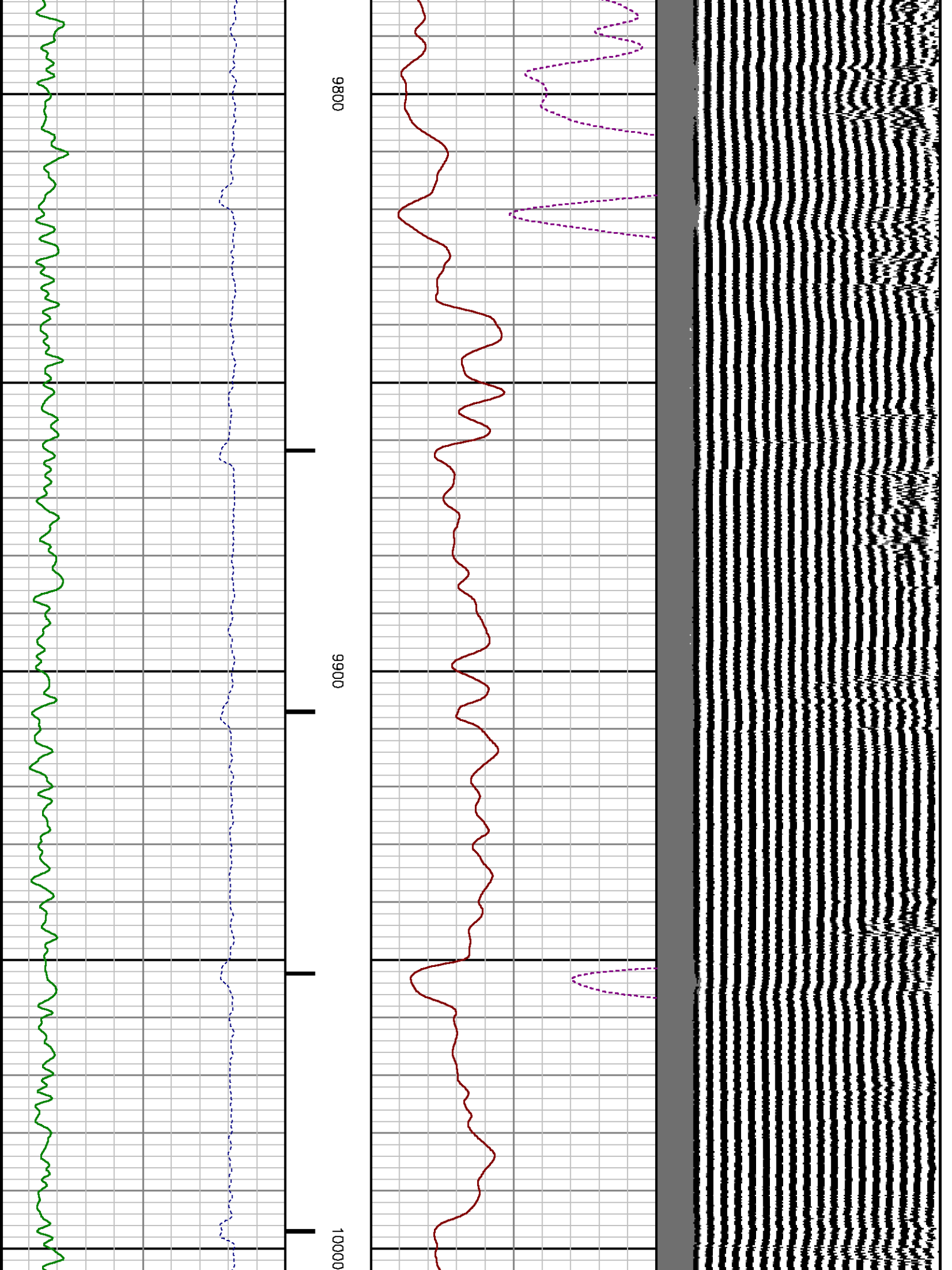


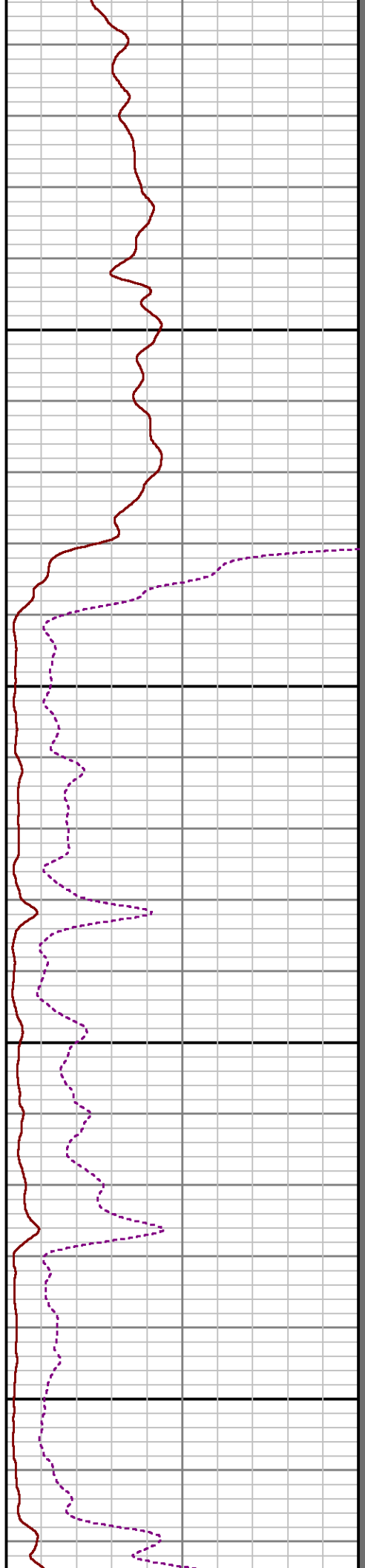
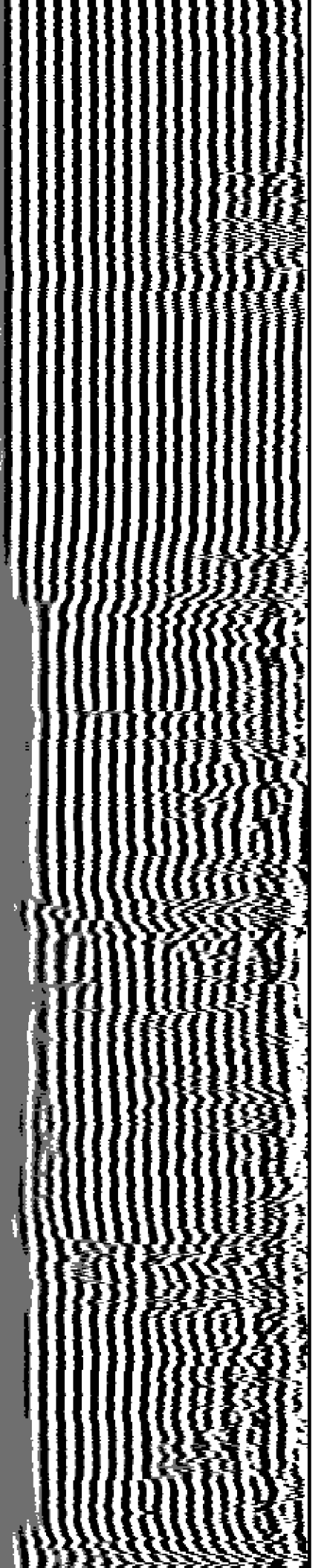






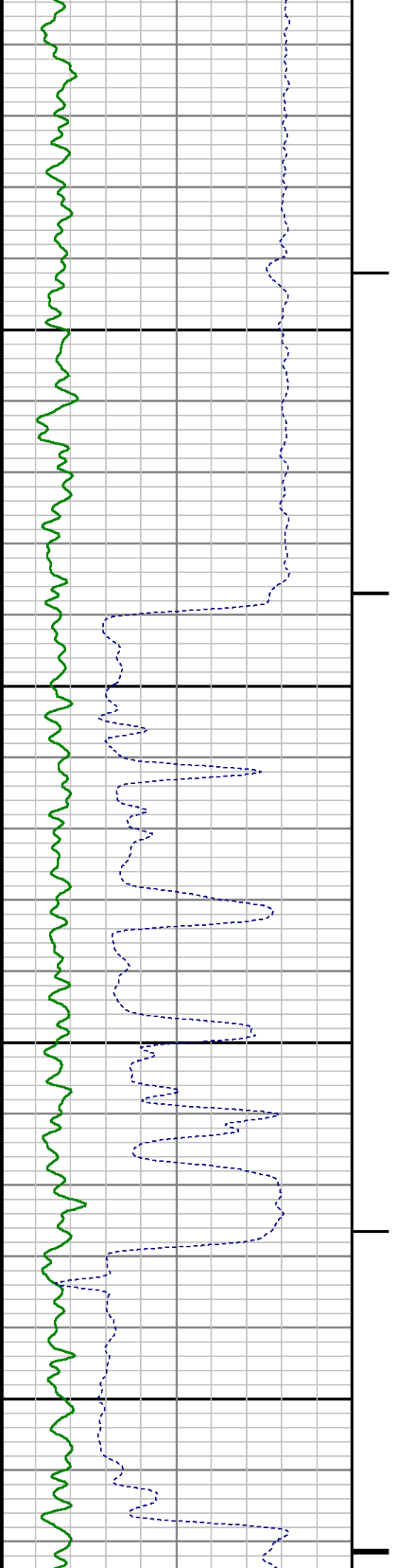


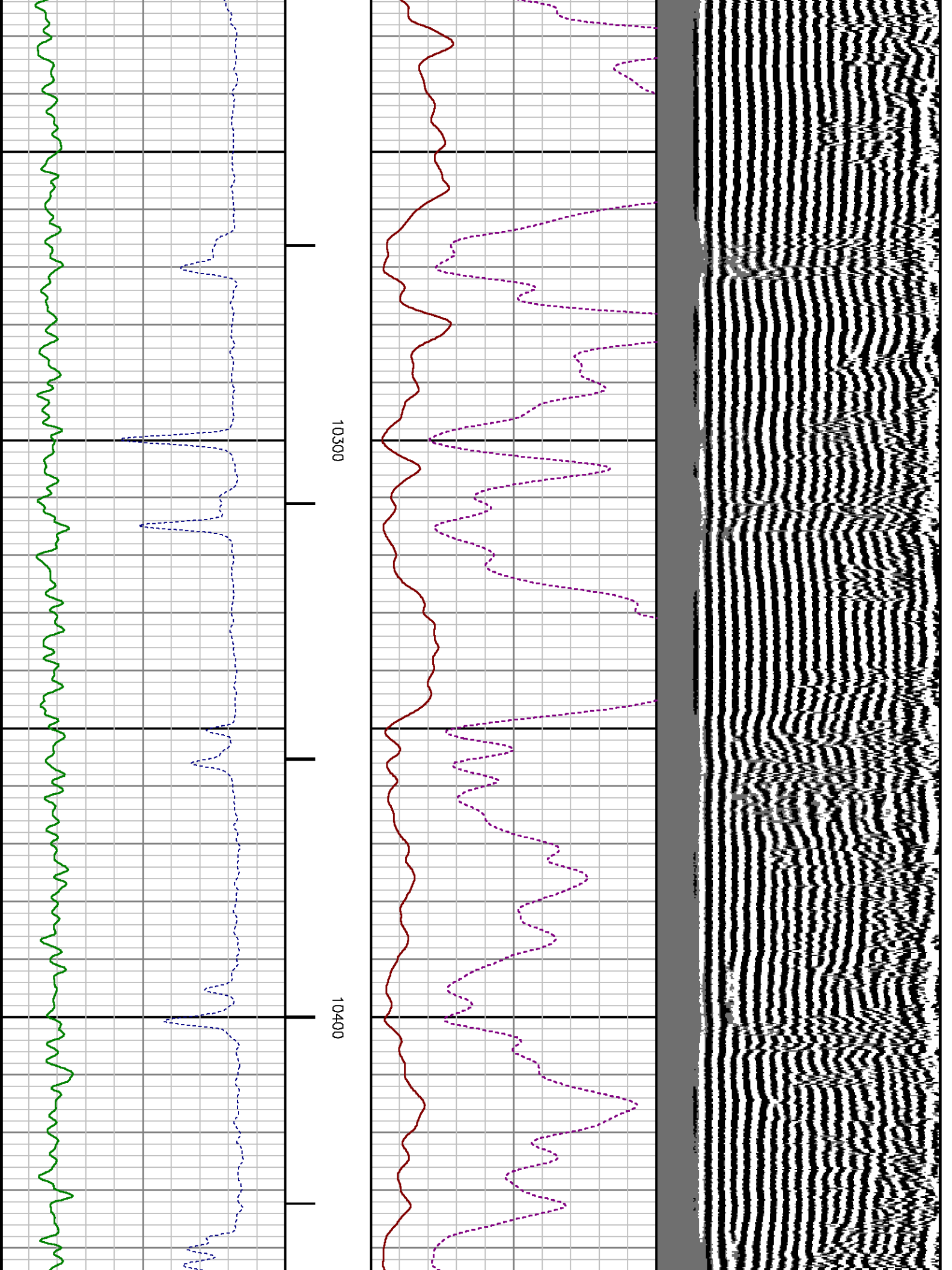


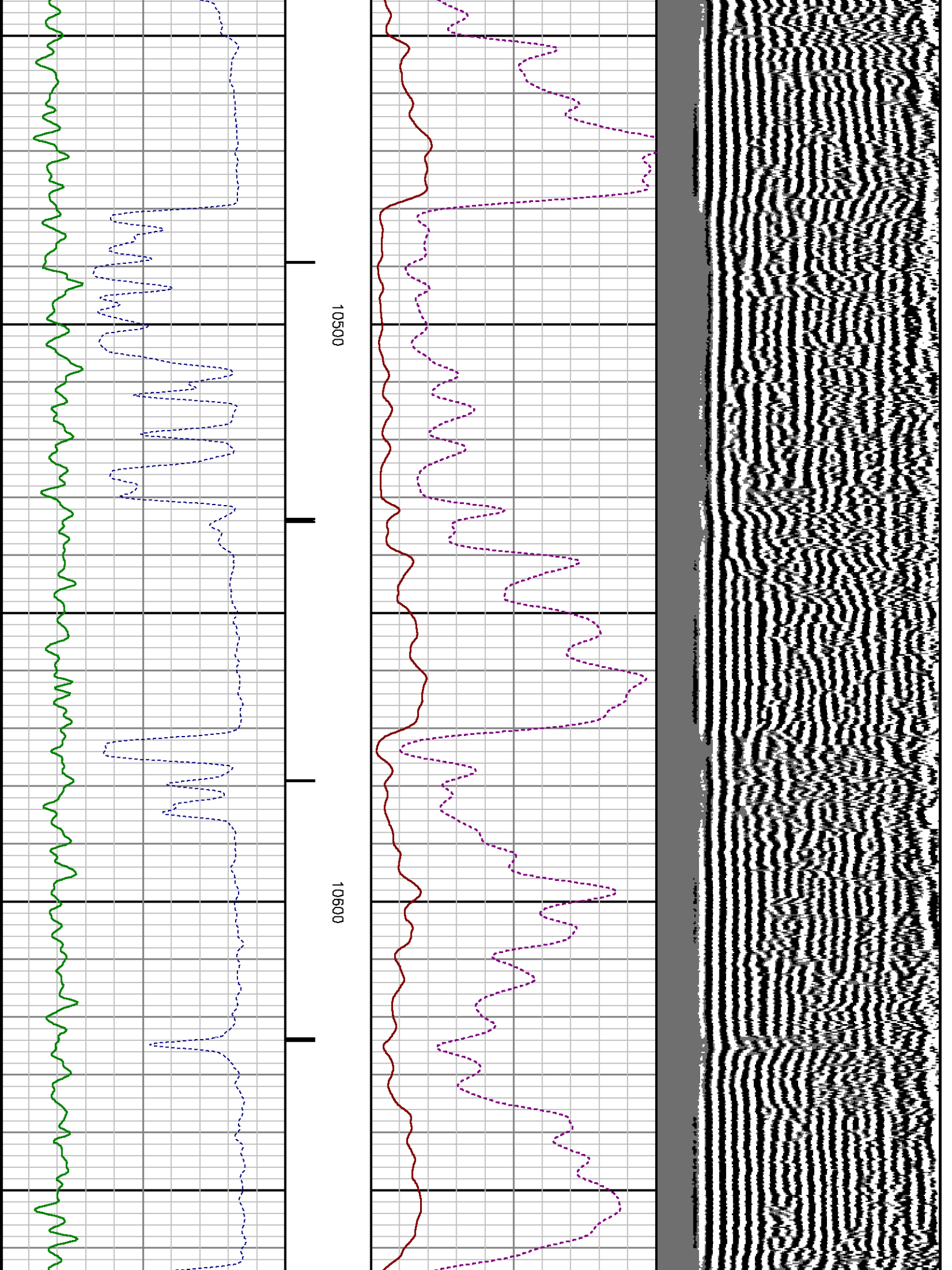


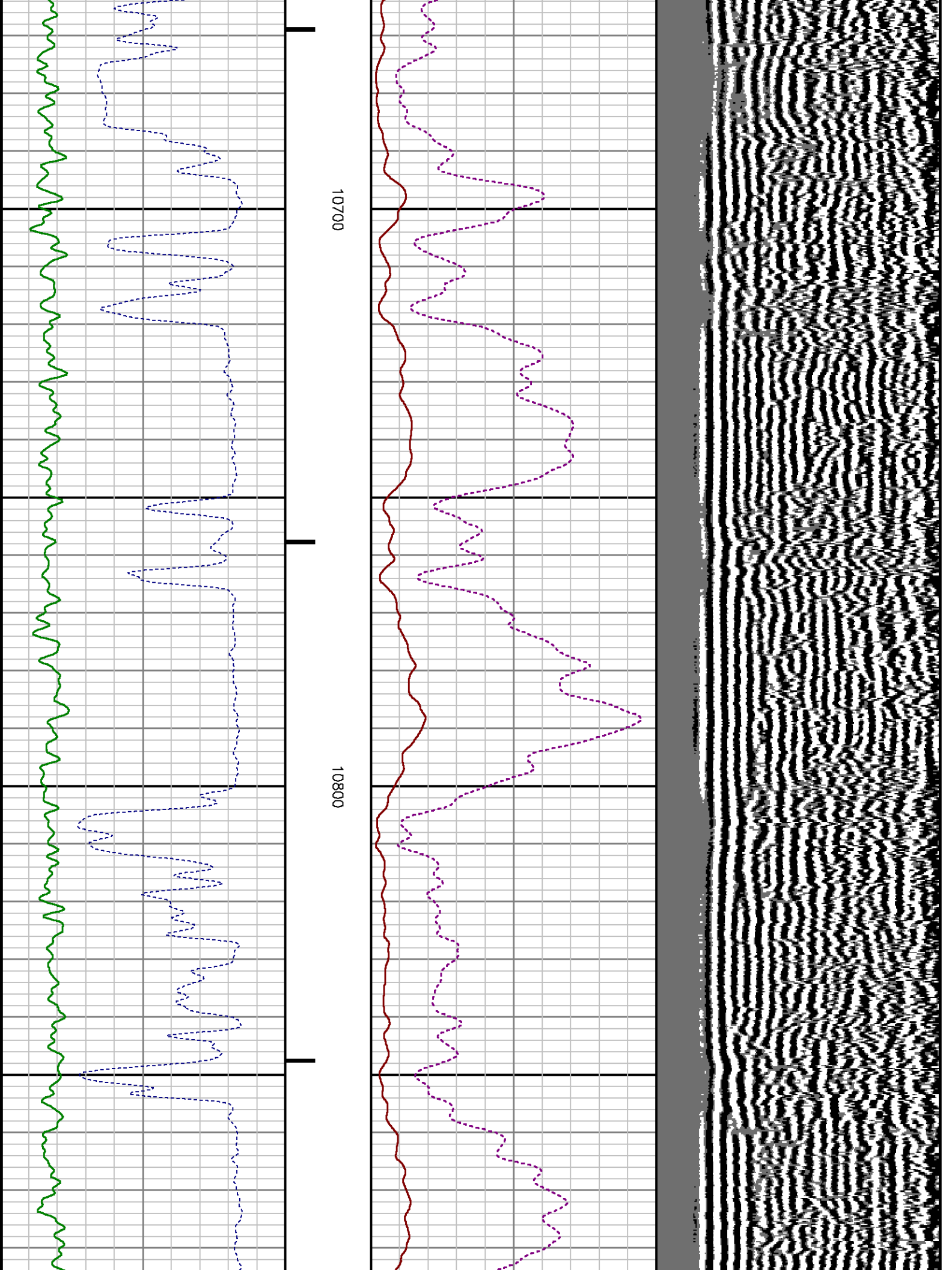
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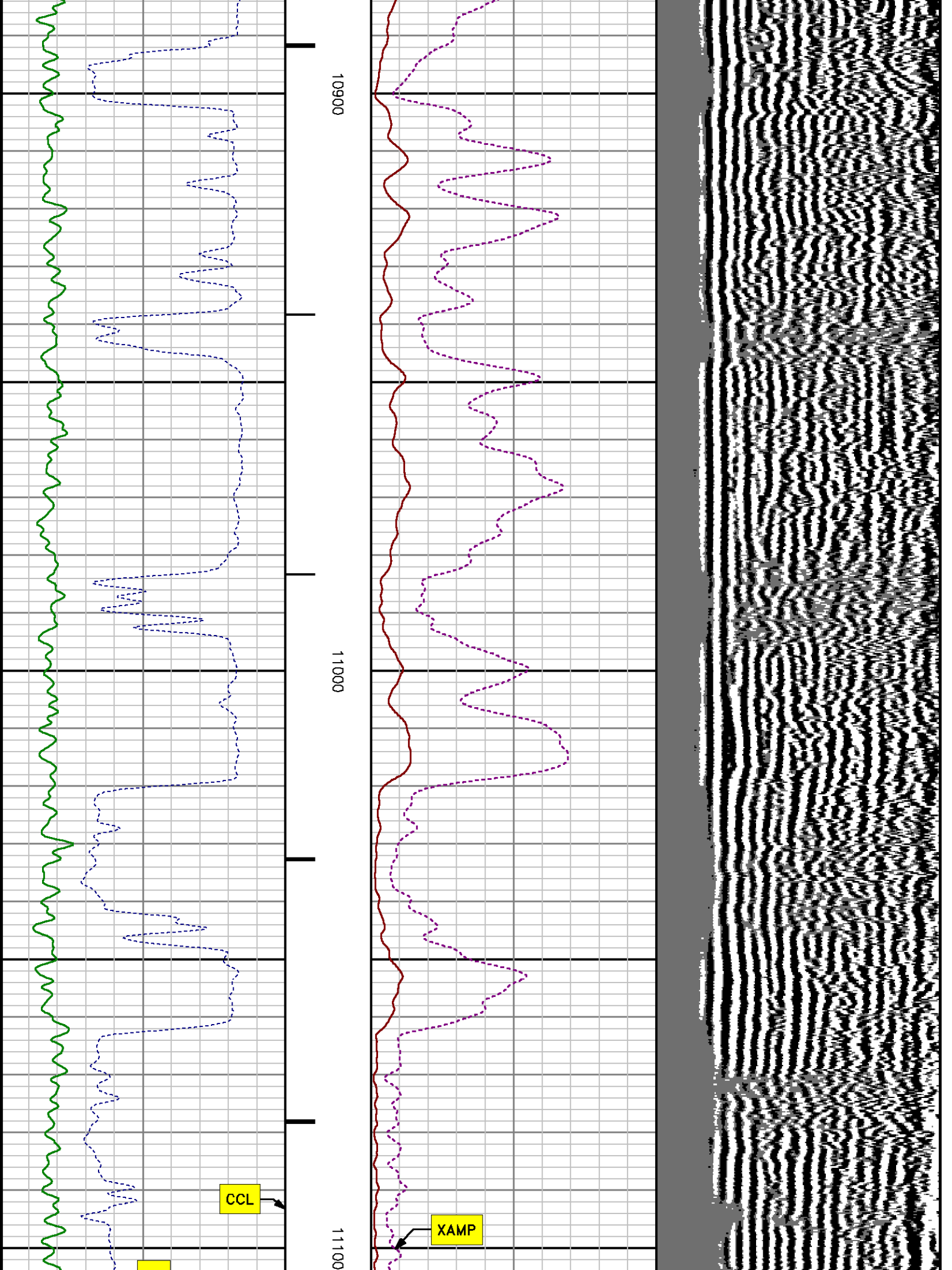
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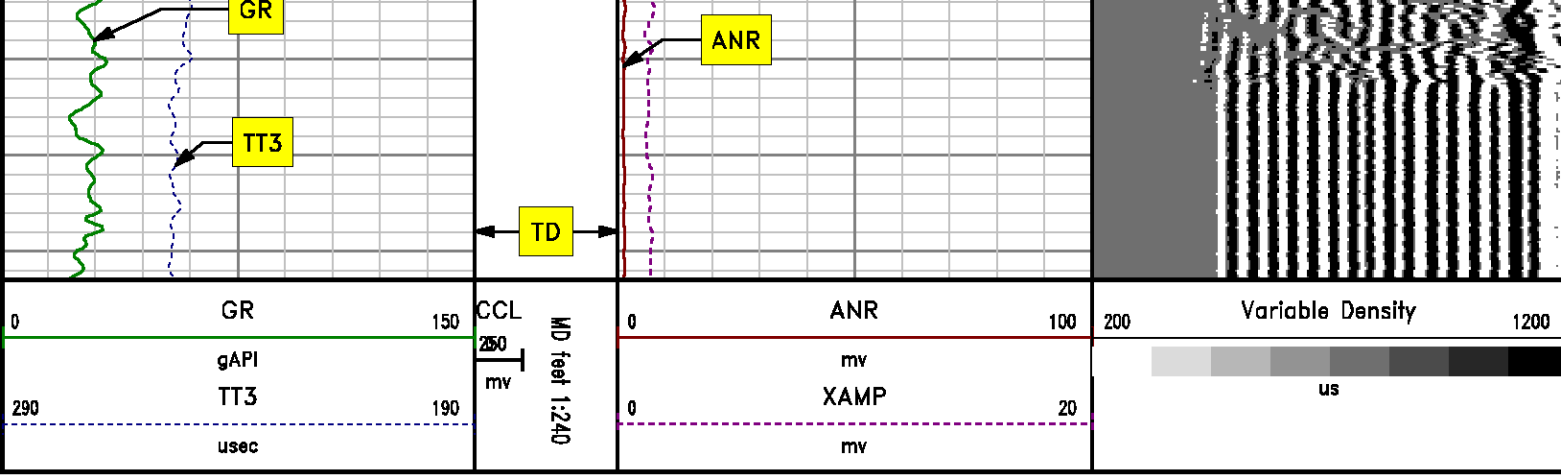












***SECONDARY PRESENTATION***  
***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	315.000	usec	35.062	11176.000
RAL	Amp Gate Start Near	200.000	usec	35.062	11176.000
RAL	Amp Gate Start Radial	200.000	usec	35.062	11176.000
RAL	Amp Gate Width Far	25.000	usec	35.062	11176.000
RAL	Amp Gate Width Near	25.000	usec	35.062	11176.000
RAL	Amp Gate Width Radial	25.000	usec	35.062	11176.000
RAL	casing od	5.500	inches	35.062	11176.000
RAL	casing wt	23.000	lbm/ft	35.062	11176.000
RAL	FB Start Far	294.887	usec	35.062	11176.000
RAL	FB Start Near	178.832	usec	35.062	11176.000
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RAL	FB Thresh Far	10.000	mv	35.062	11176.000
RAL	FB Thresh Near	4.000	mv	35.062	11176.000
RAL	FB Thresh Radial	4.000	mv	35.062	11176.000
RAL	Fluid Travel Time	167.000	usec/ft	35.062	11176.530

**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					
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Company : WPX ENERGY

Well : PUCKETT GM 701-28-HN1

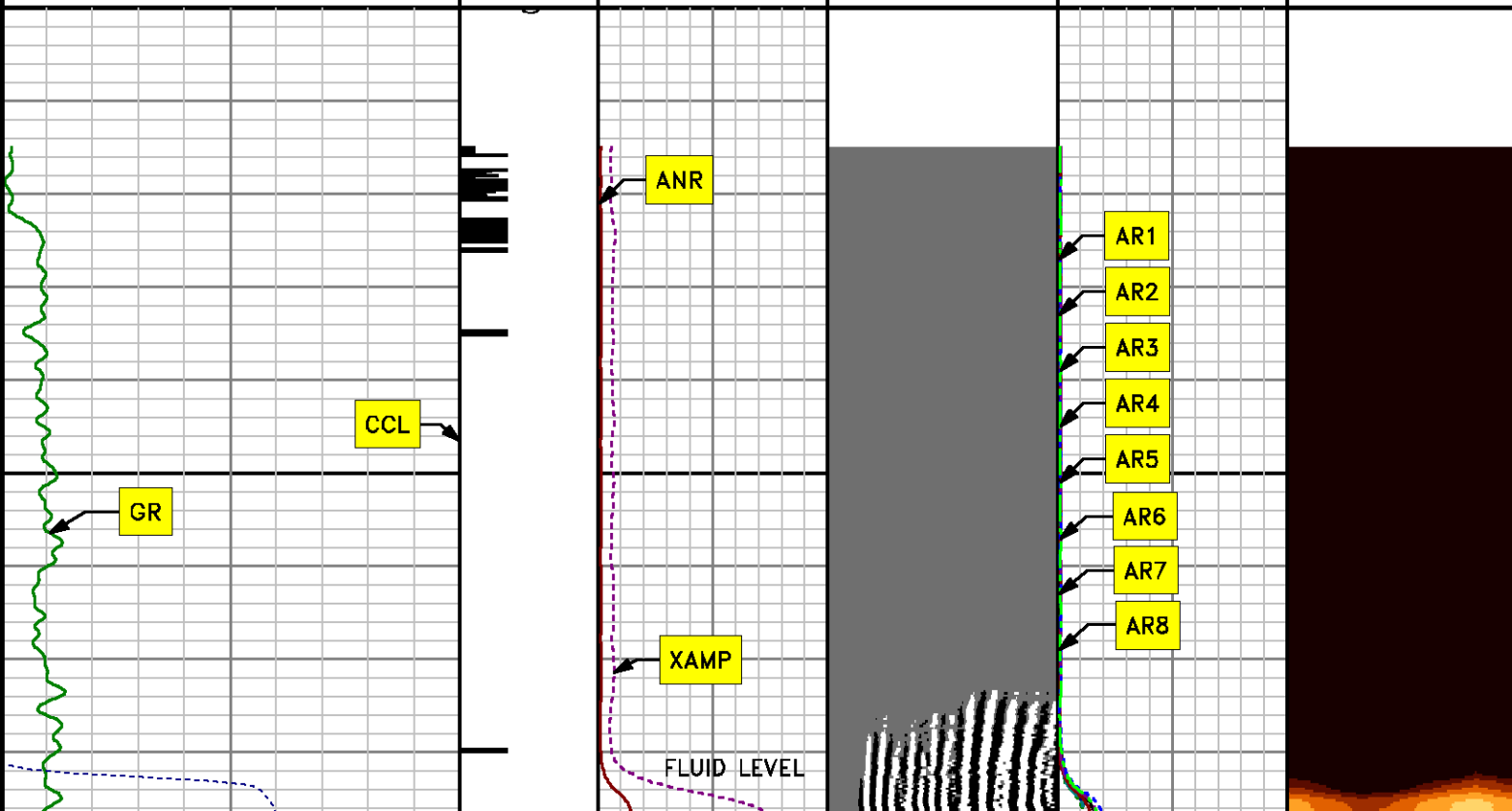
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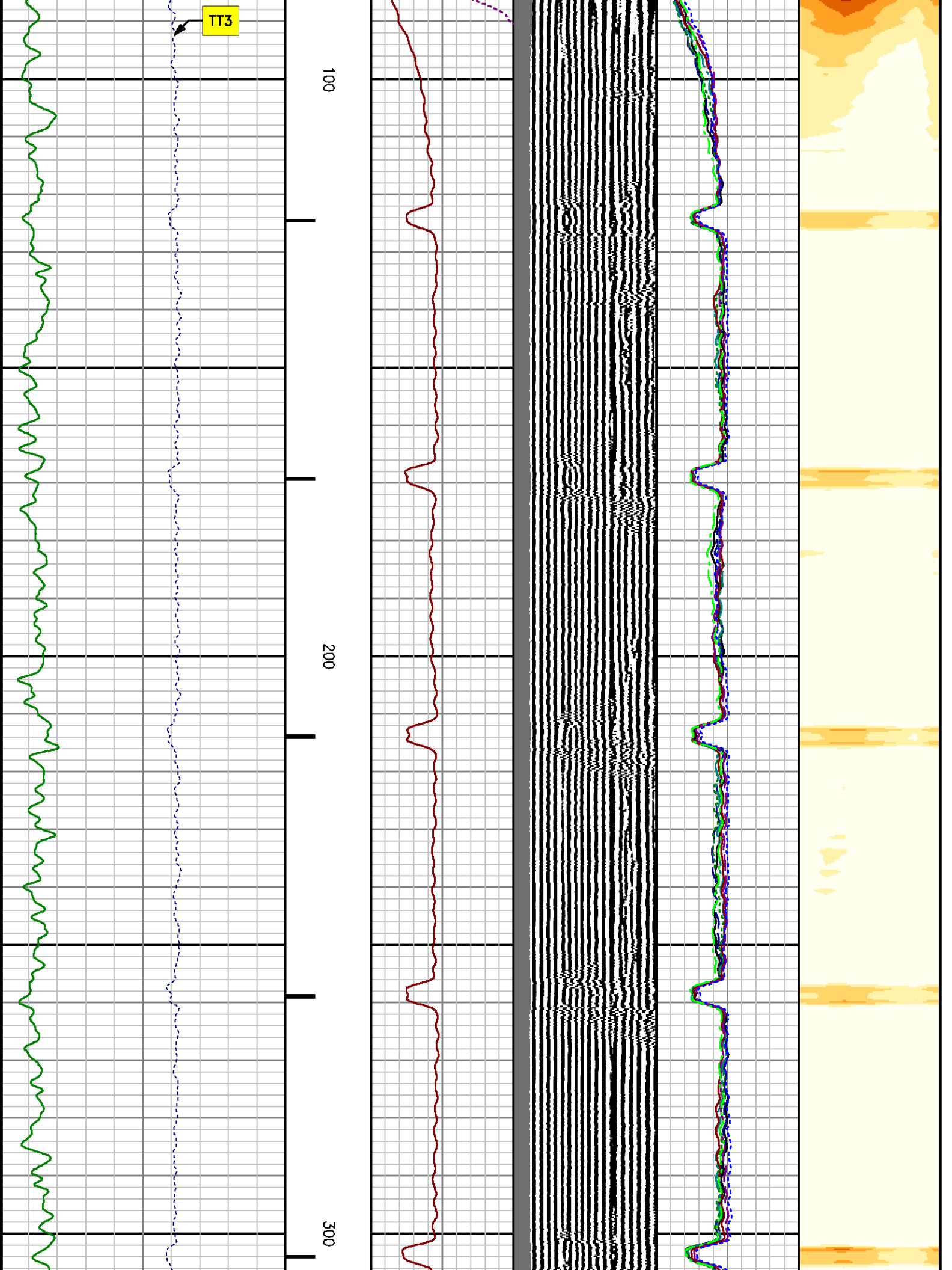
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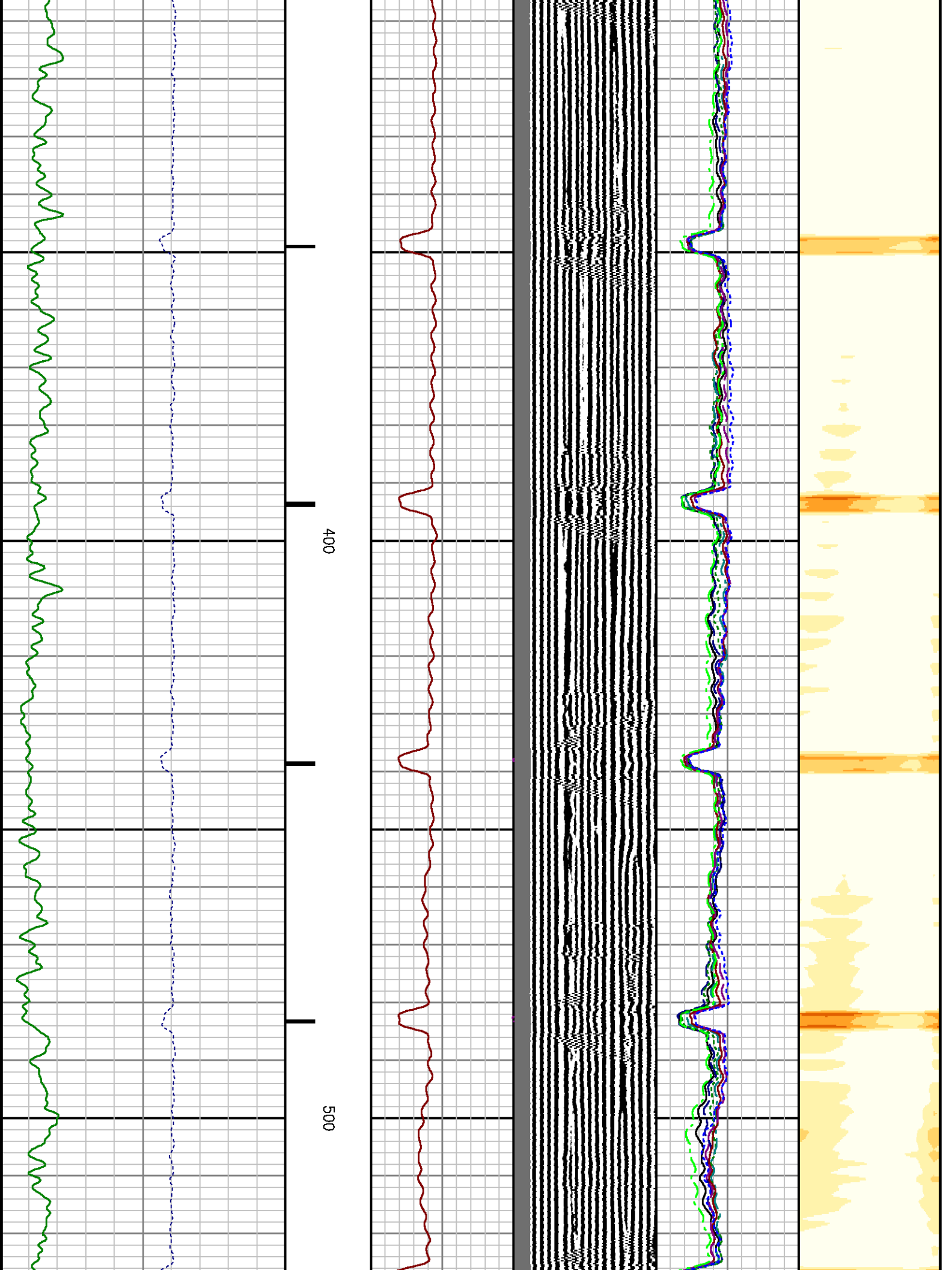
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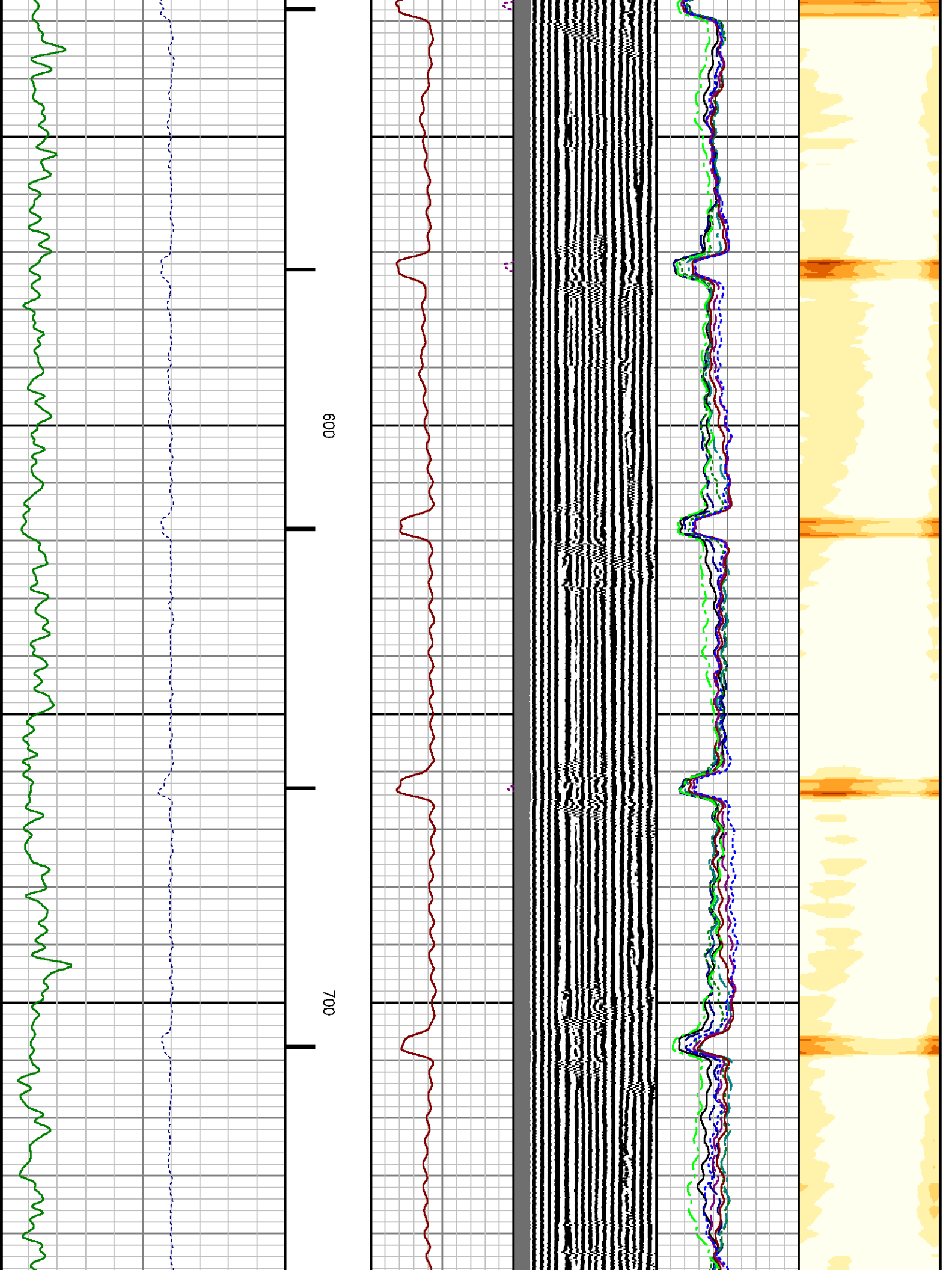
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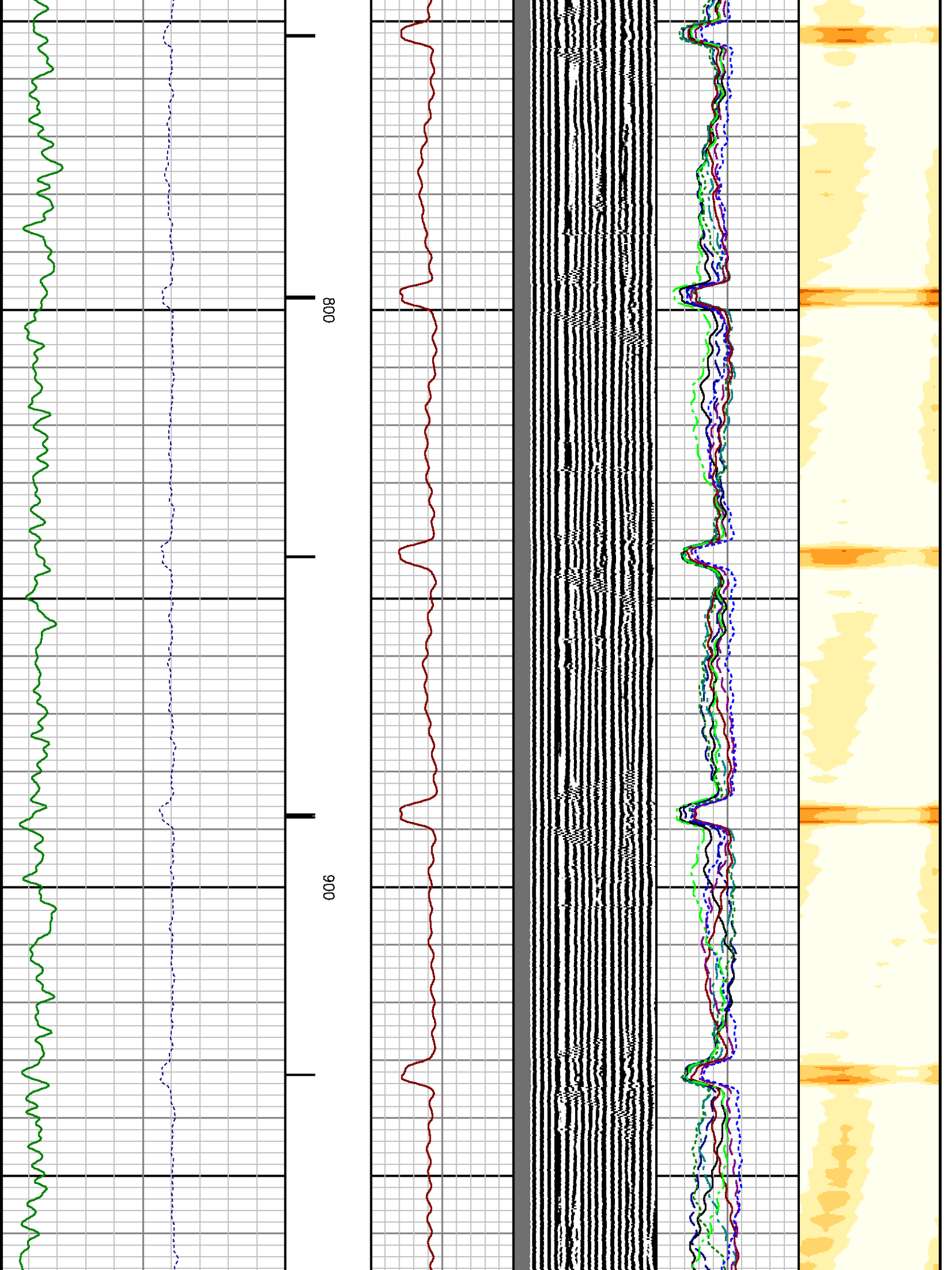
0	GR	150	CCL	MD feet 1:240	0	ANR	100	Variable Density	0	AR1	100	0	PBMAP	360
	gAPI		250			mv		200		AR2	100			
280	TT3	180	mv		0	XAMP	20	us		AR3	100		80	20
	uSec					mv				AR4	100			
										AR5	100			
										AR6	100			
										AR7	100			
										AR8	100			

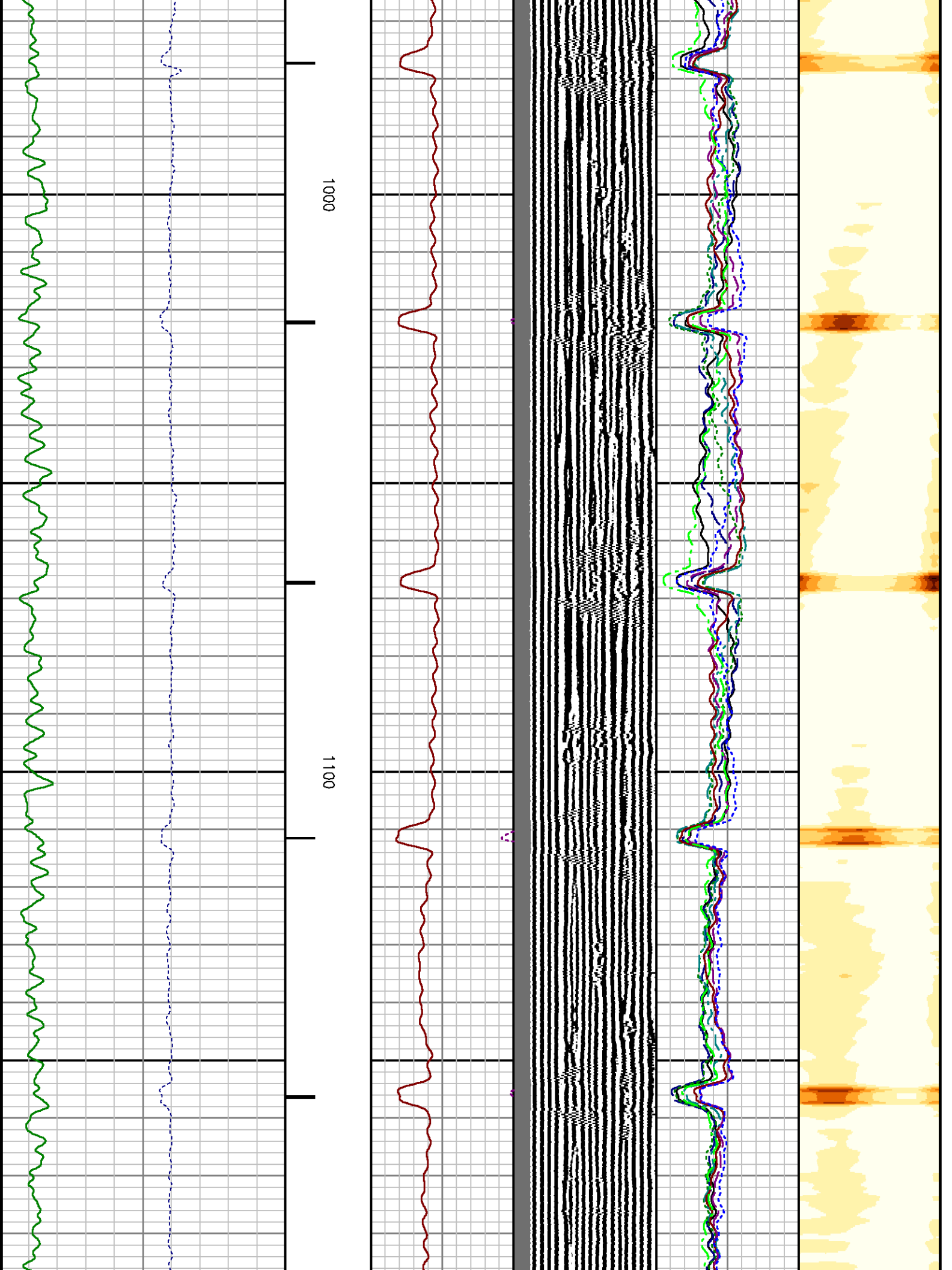


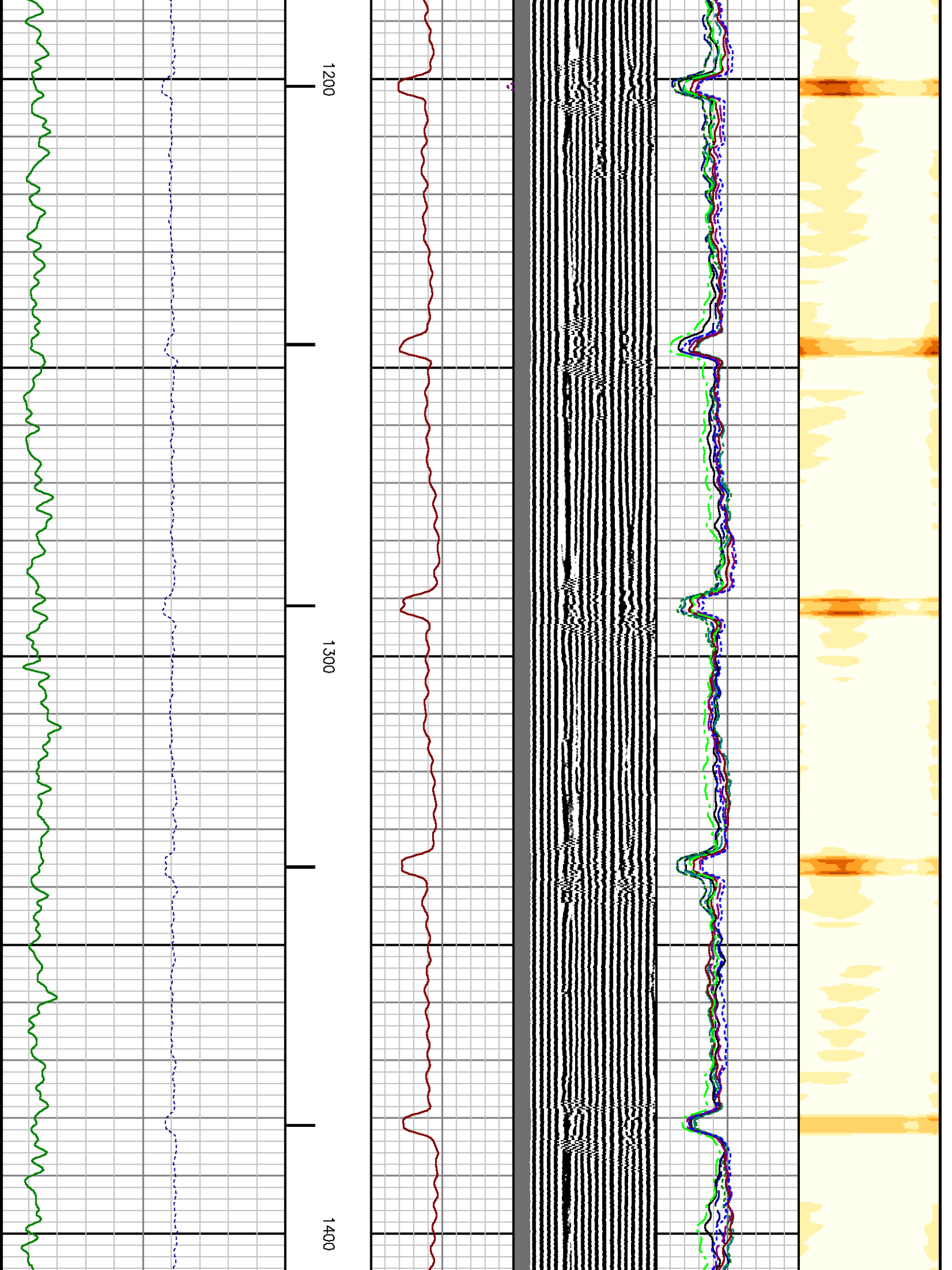


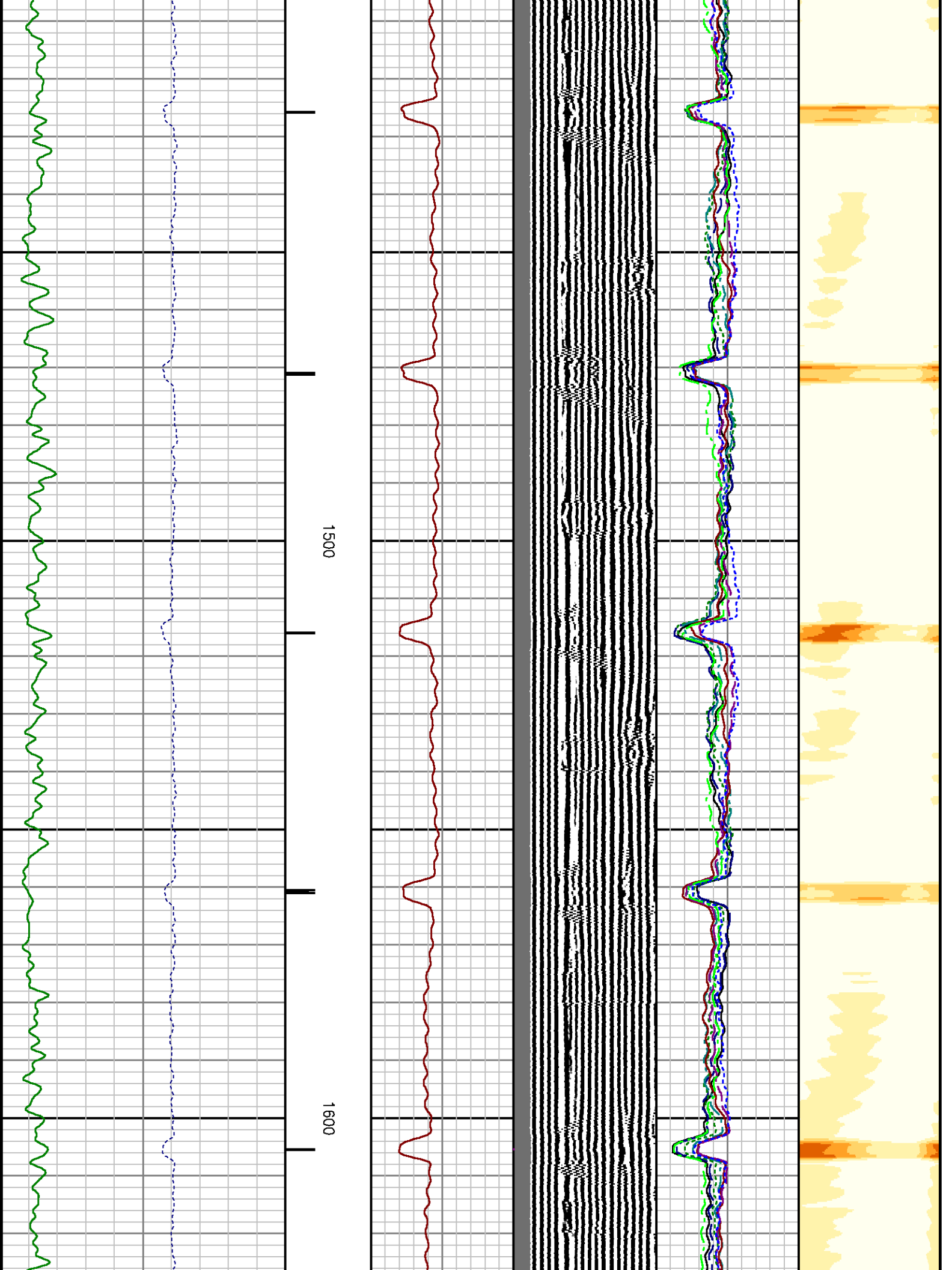


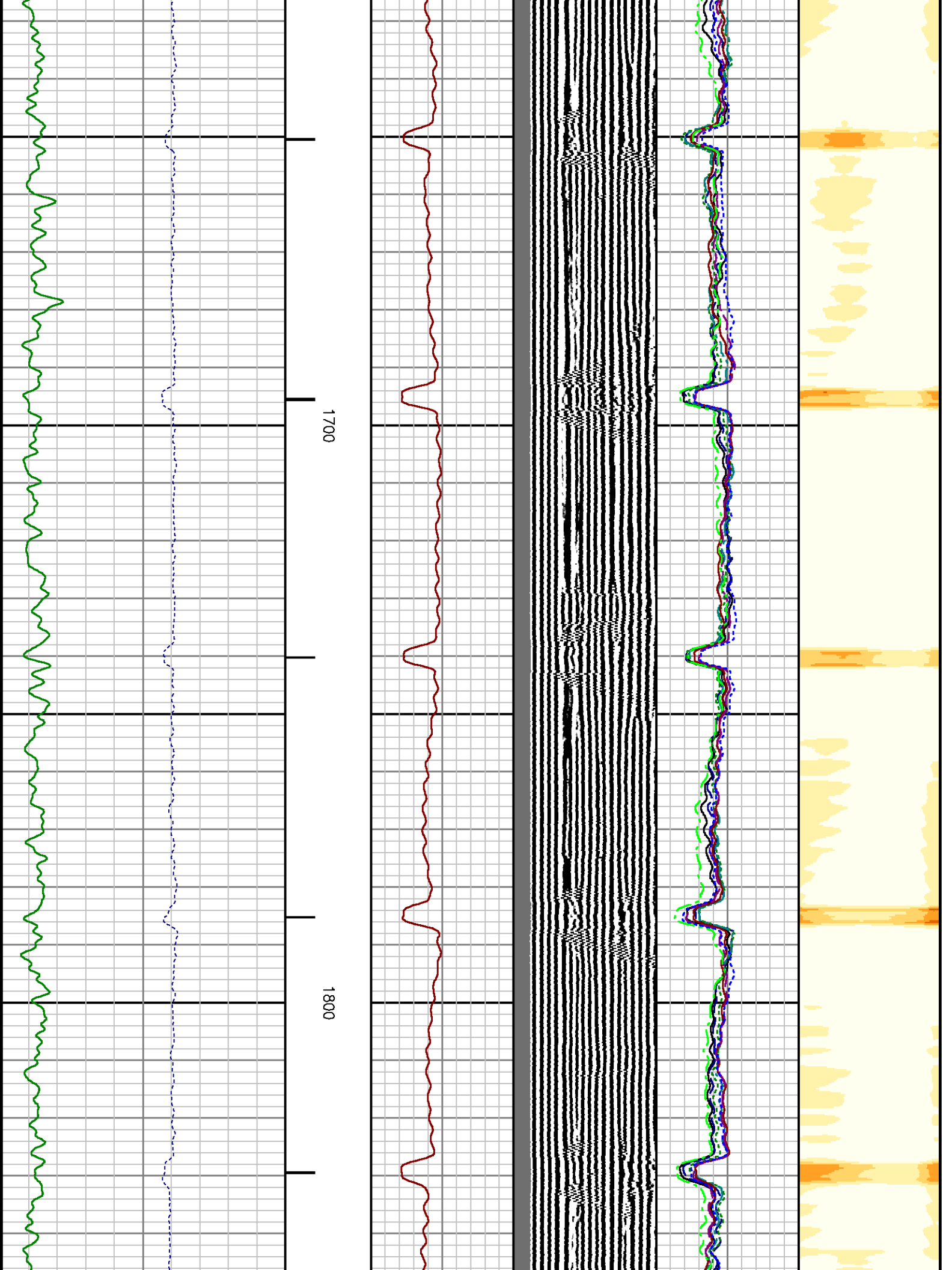


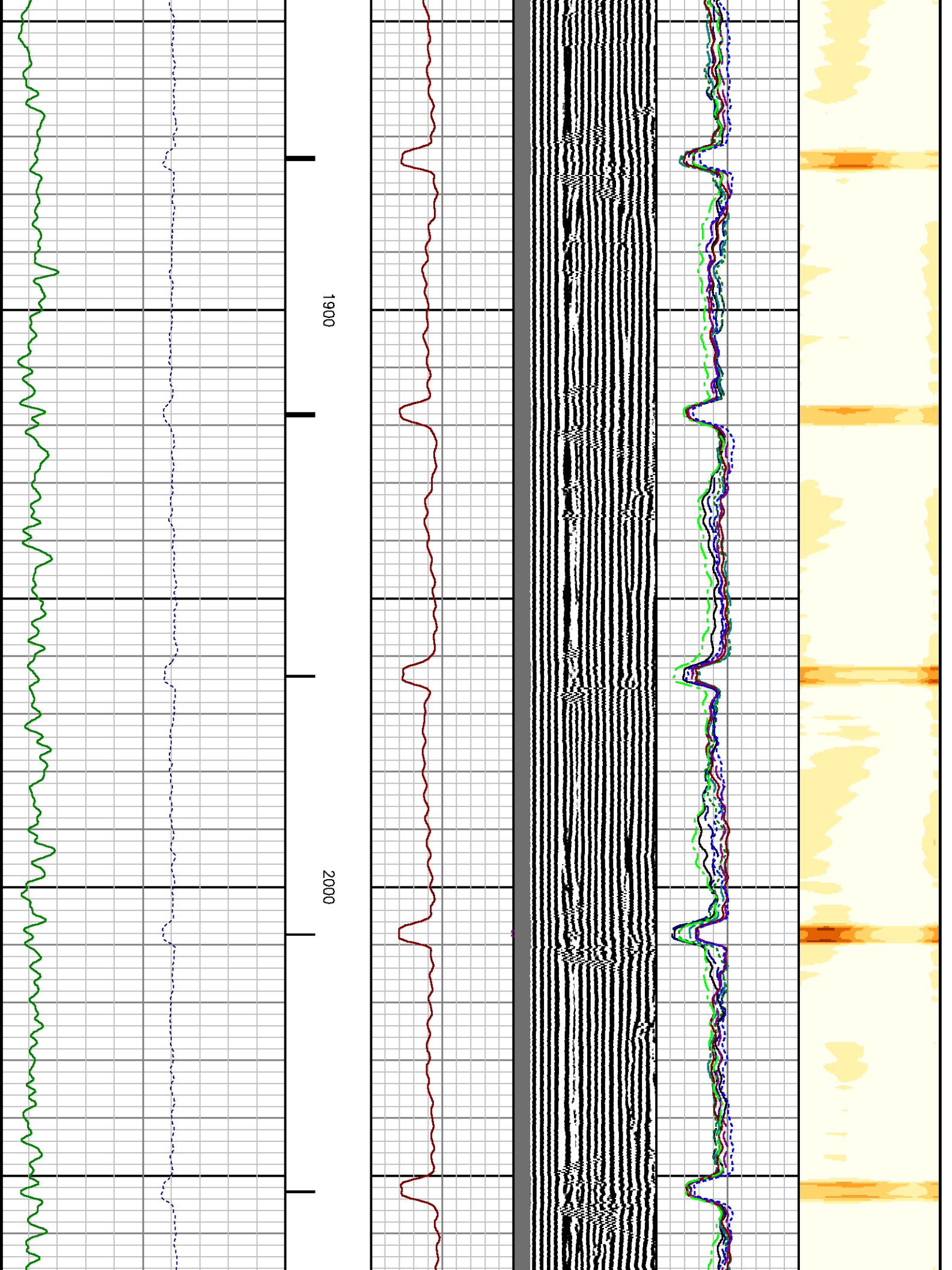


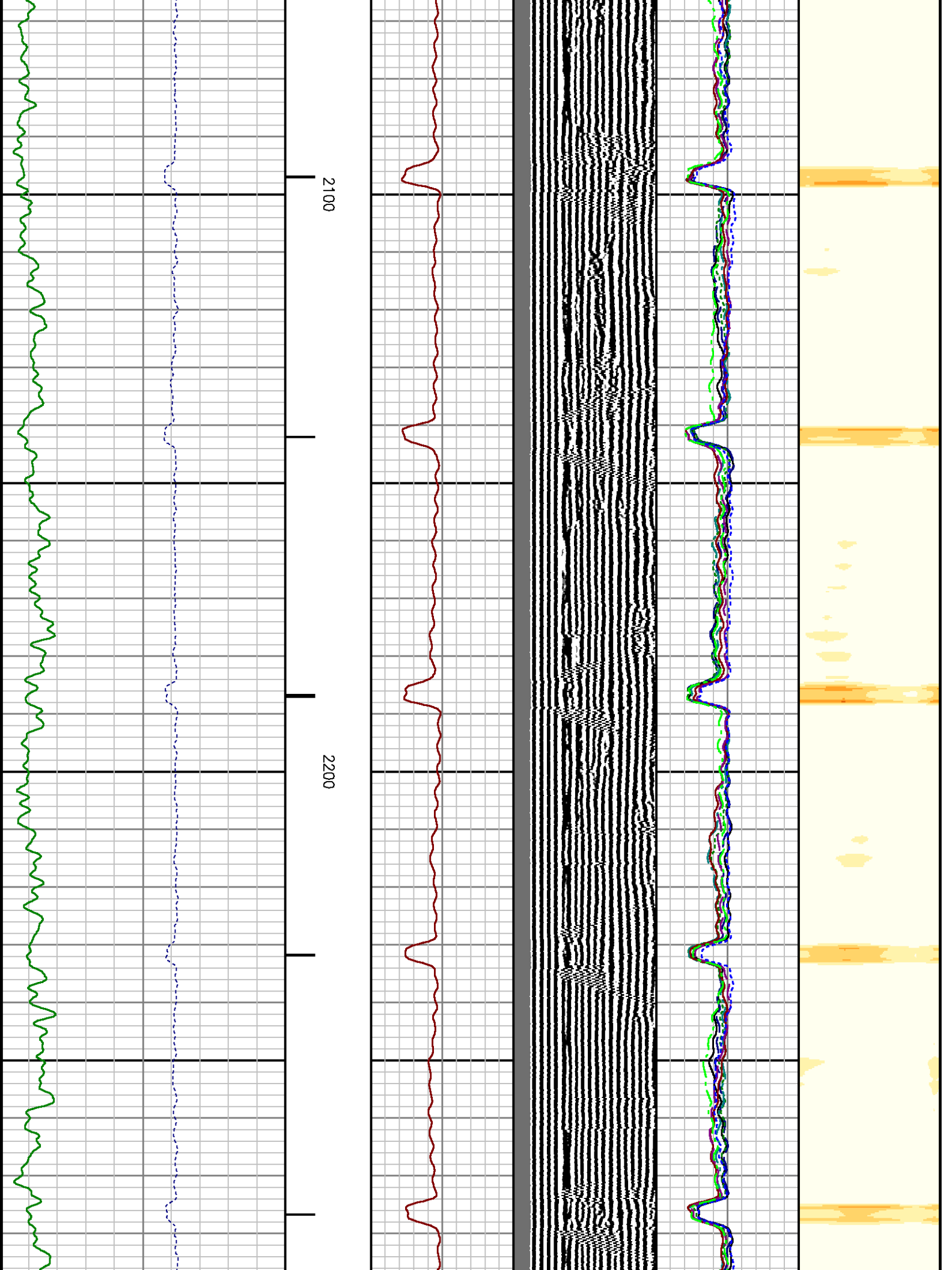


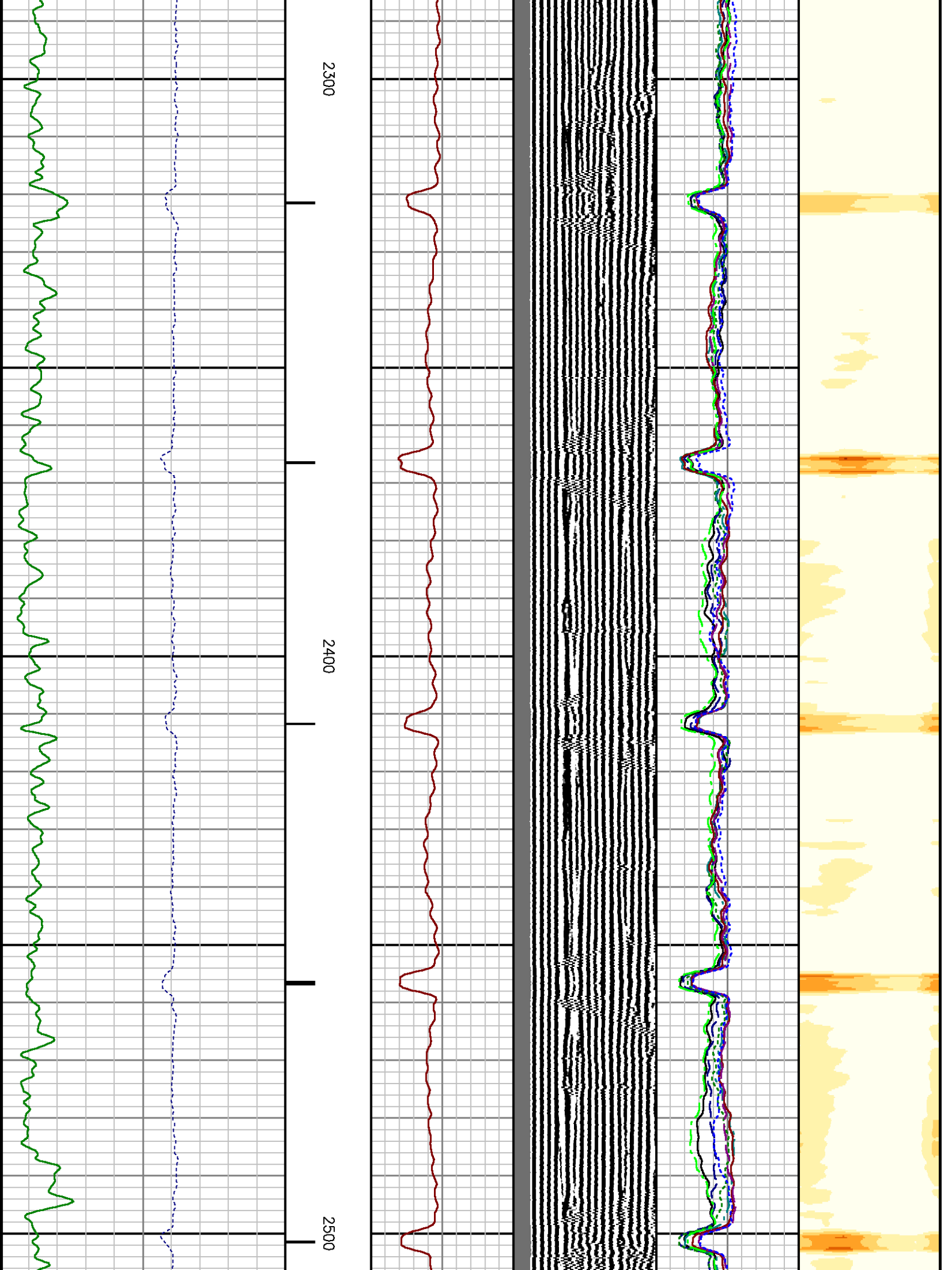


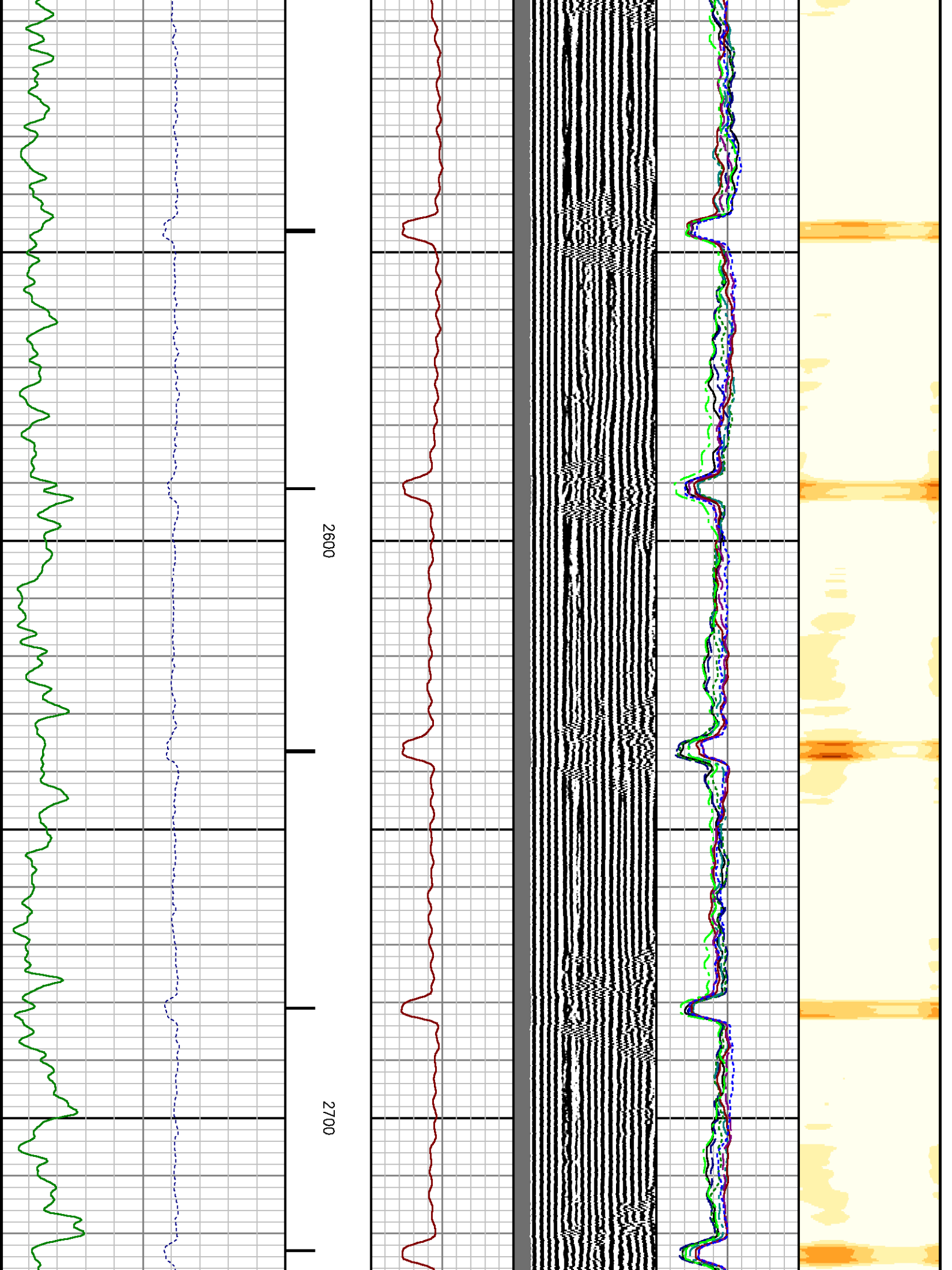


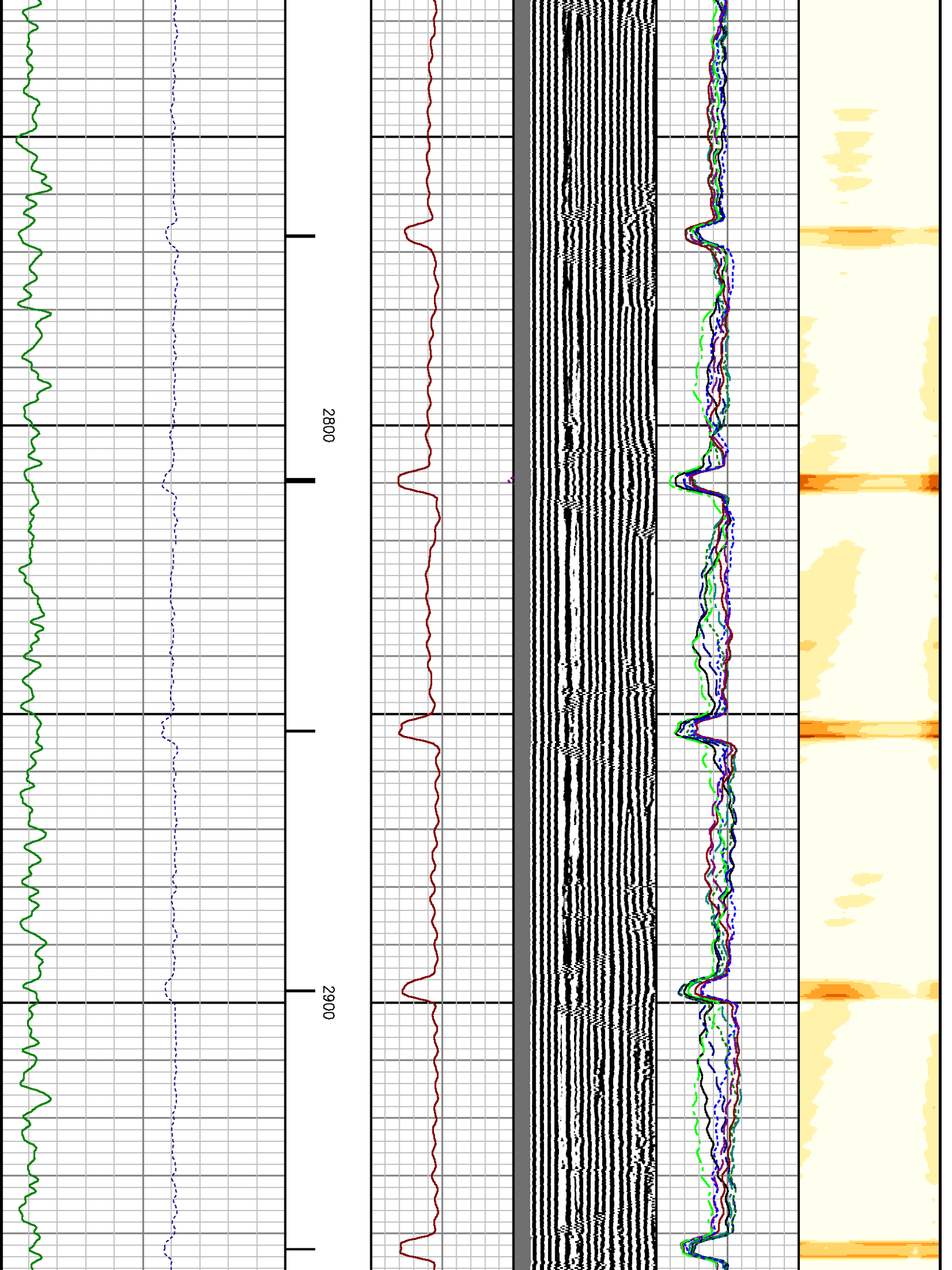


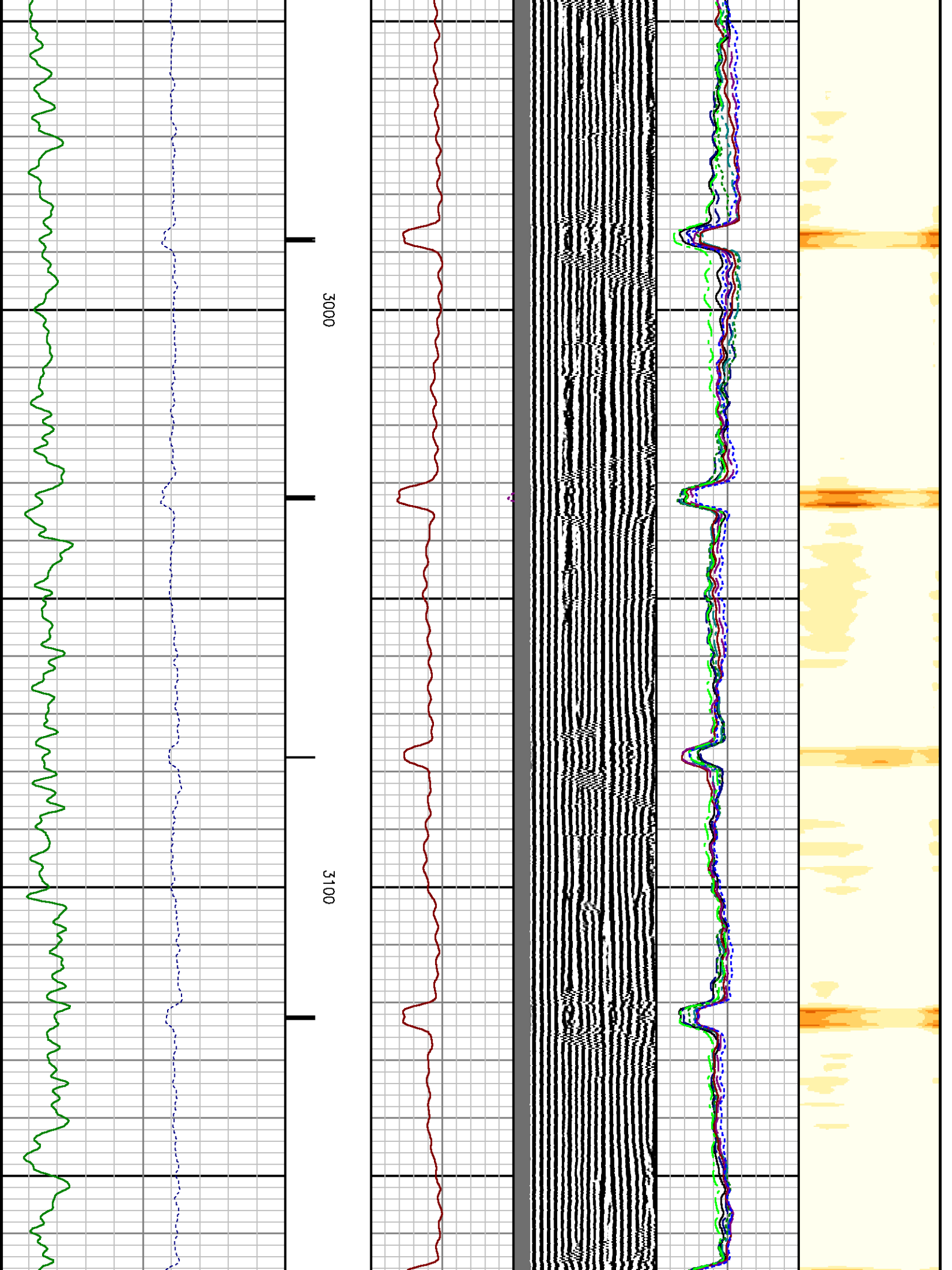


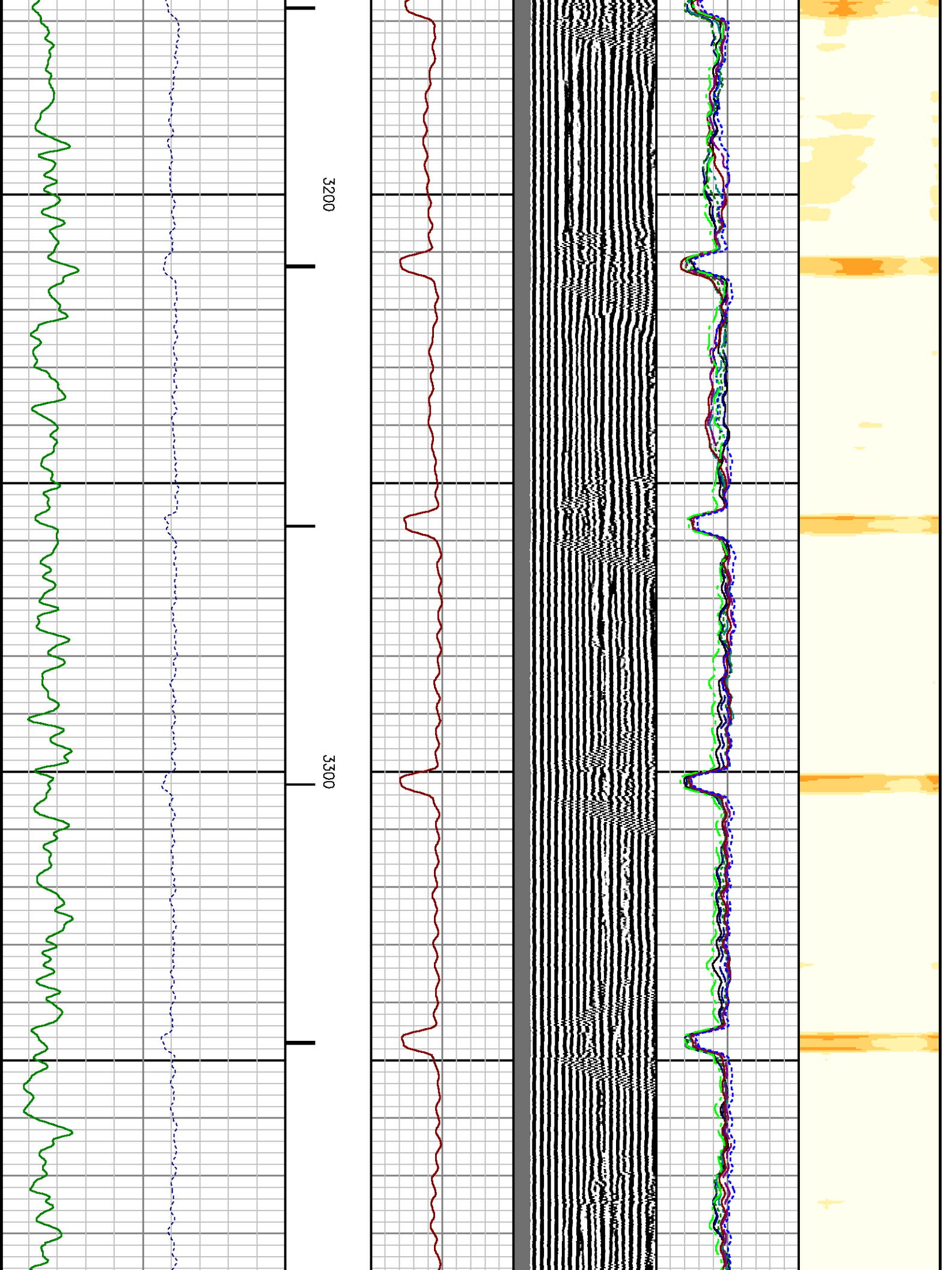


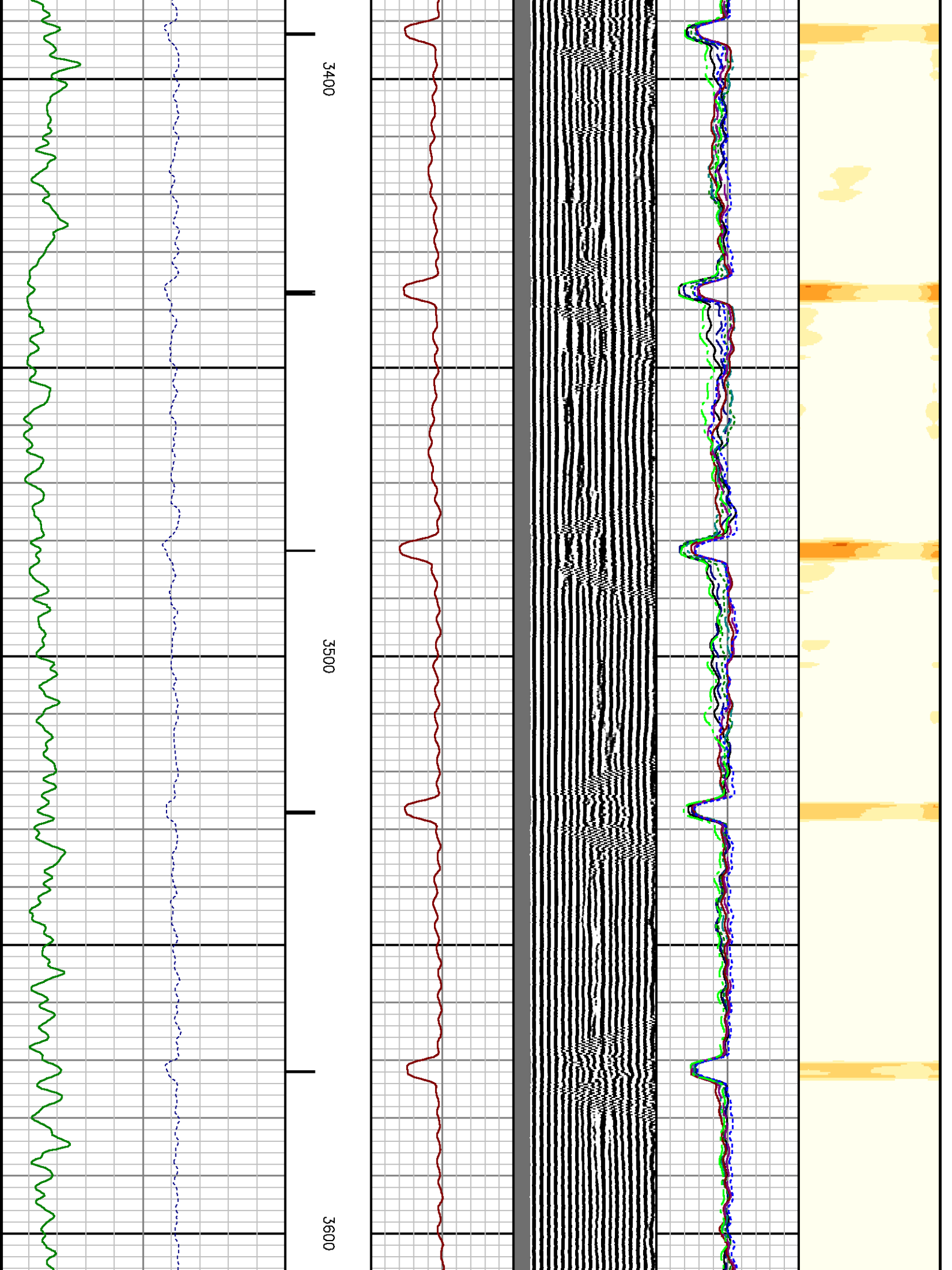


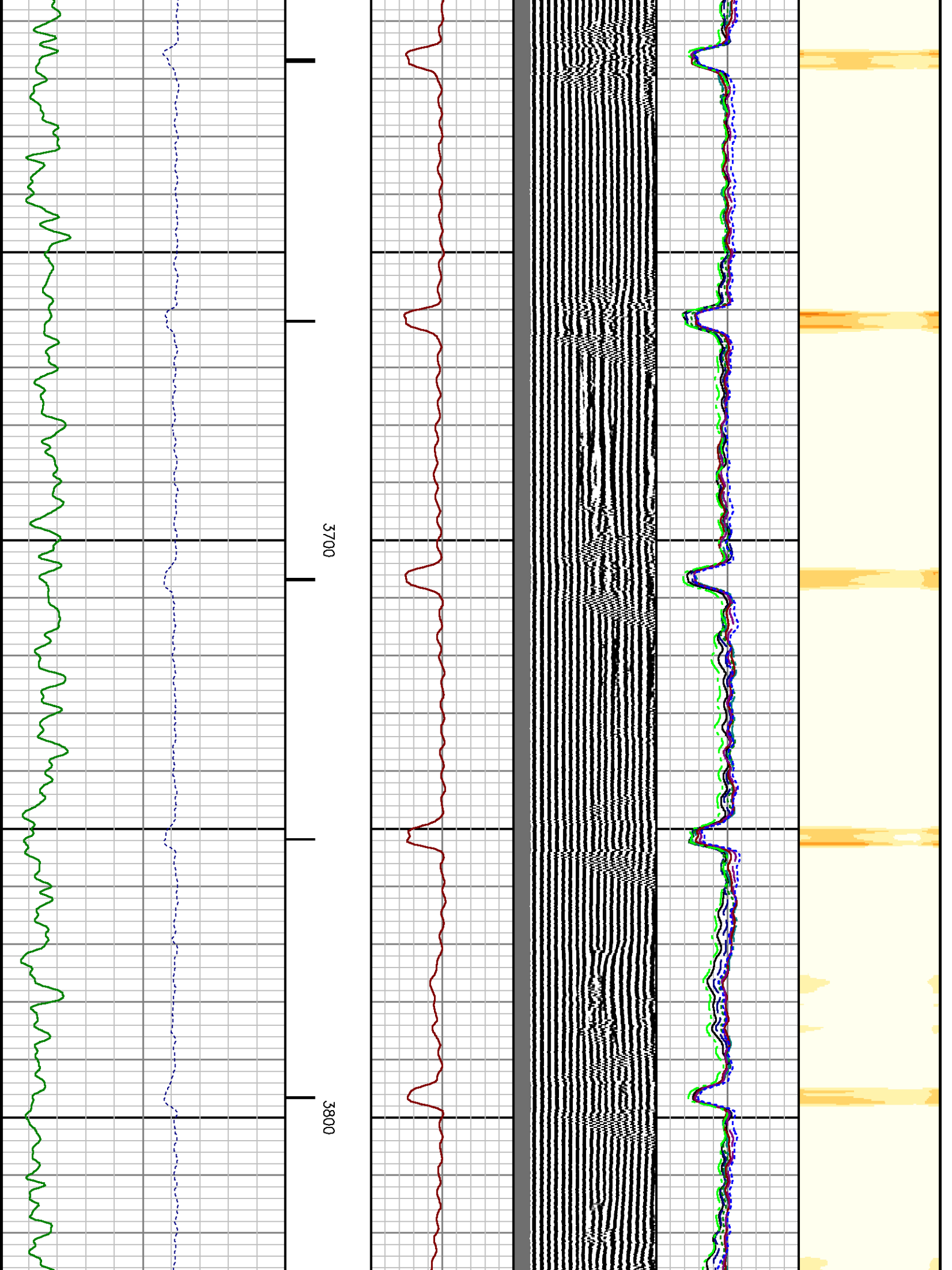


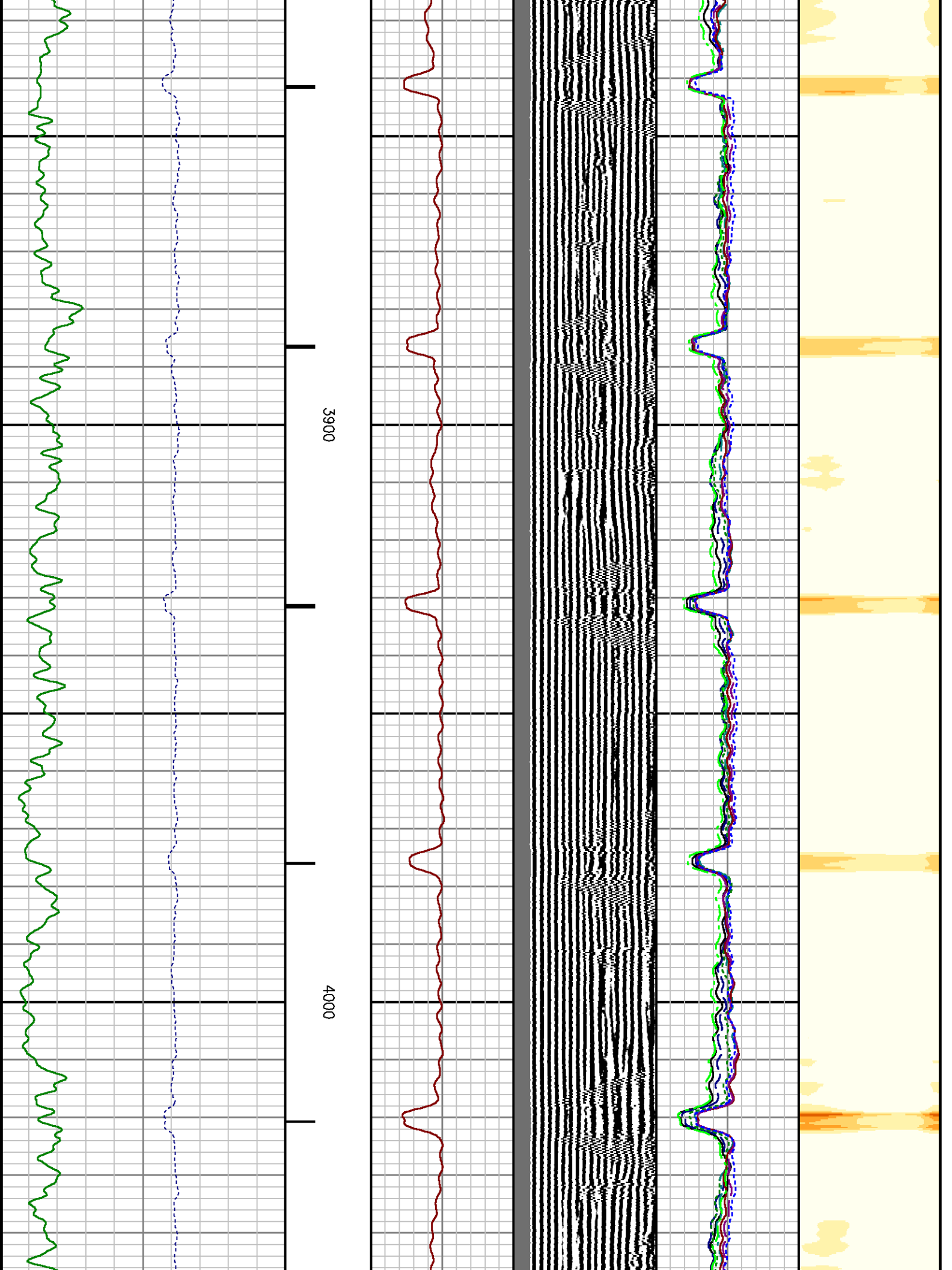


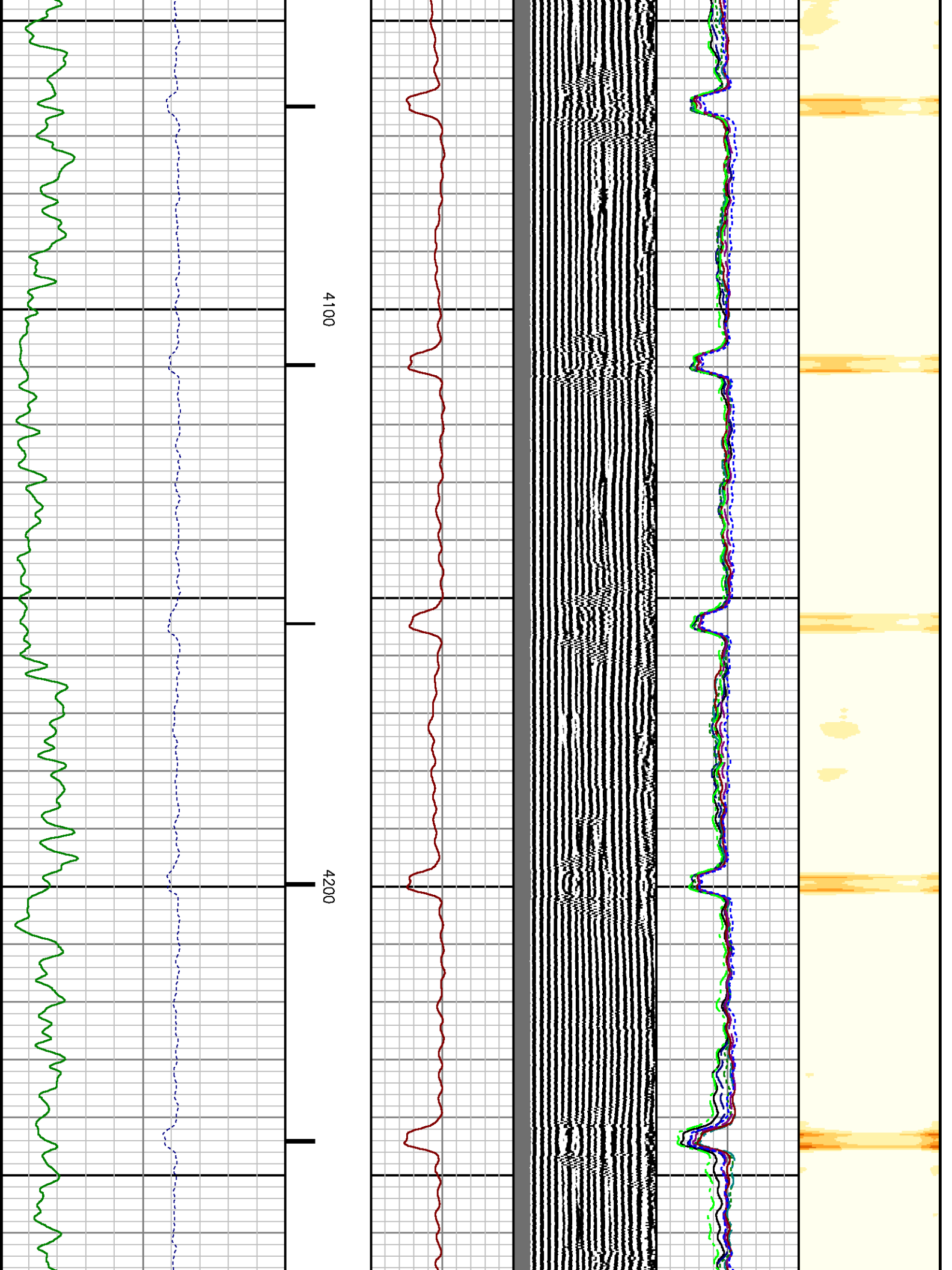


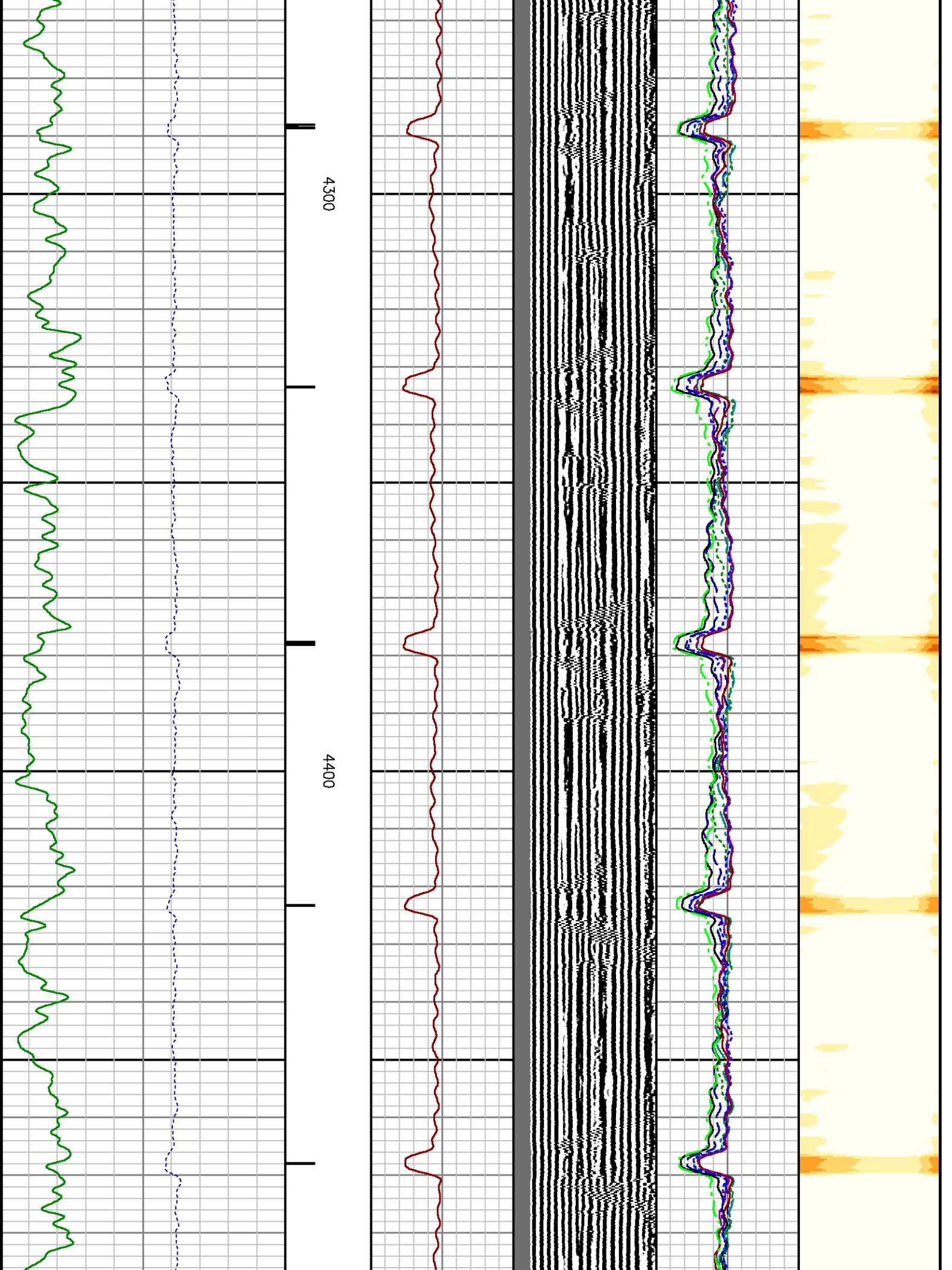


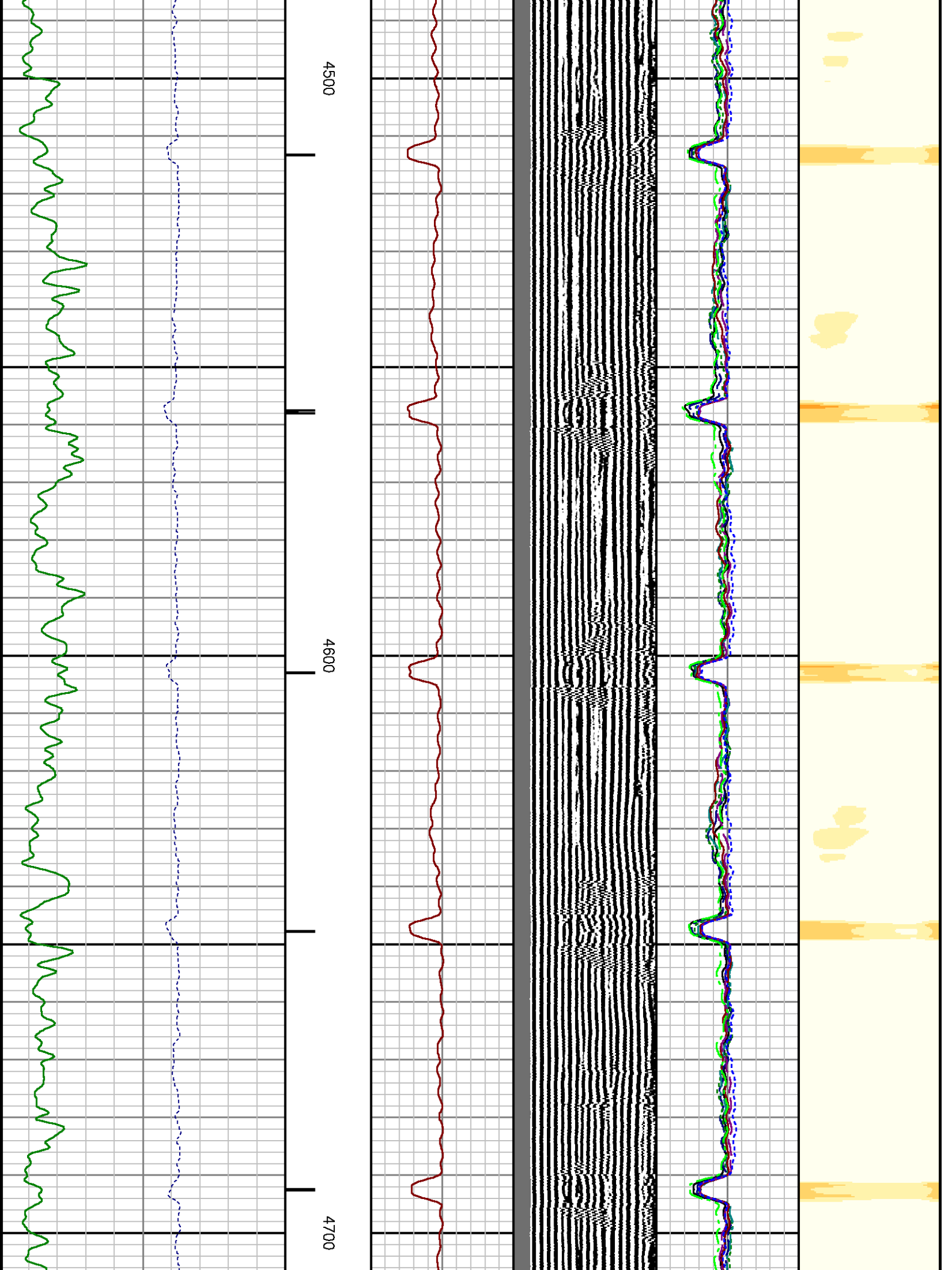


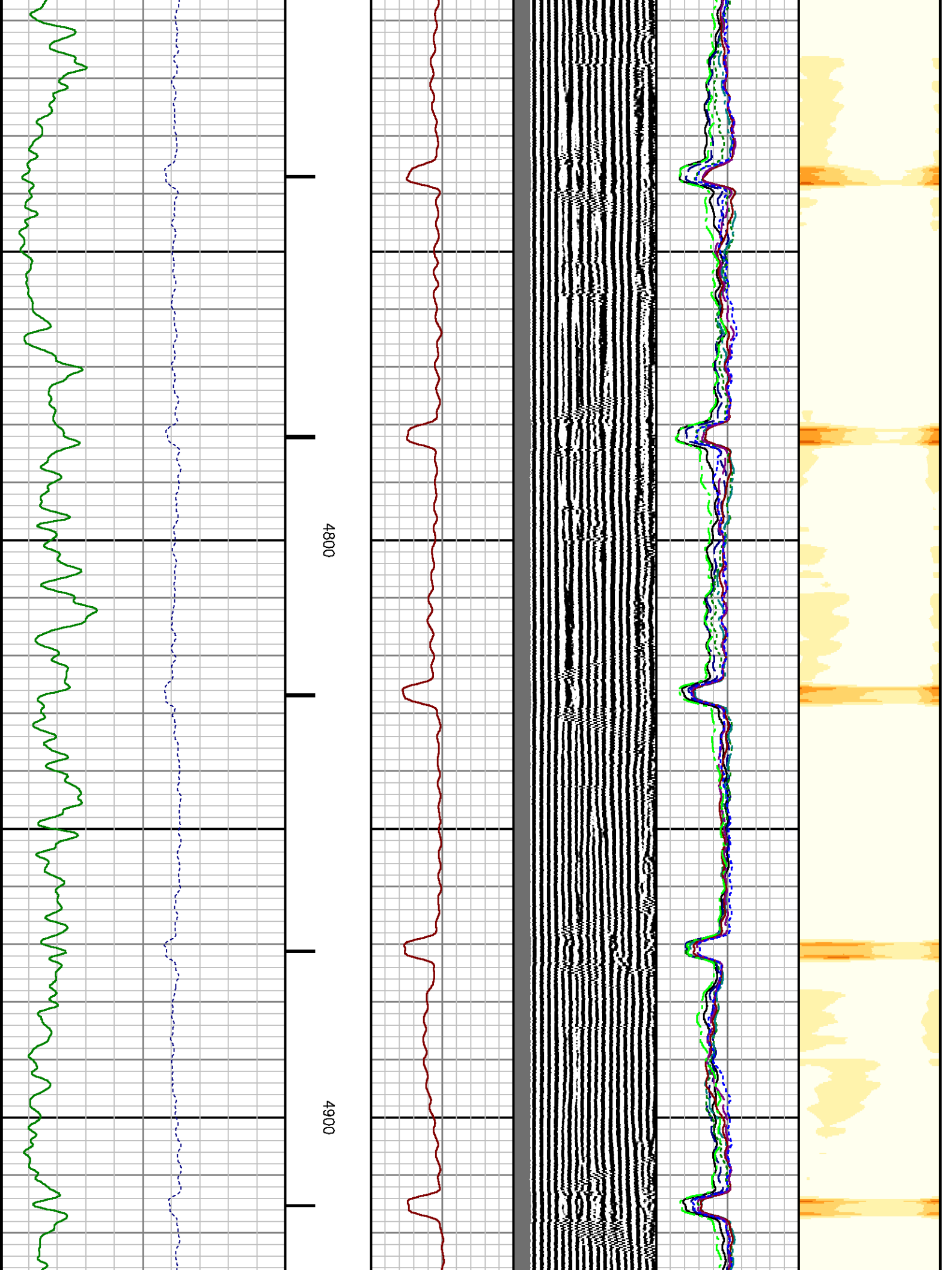


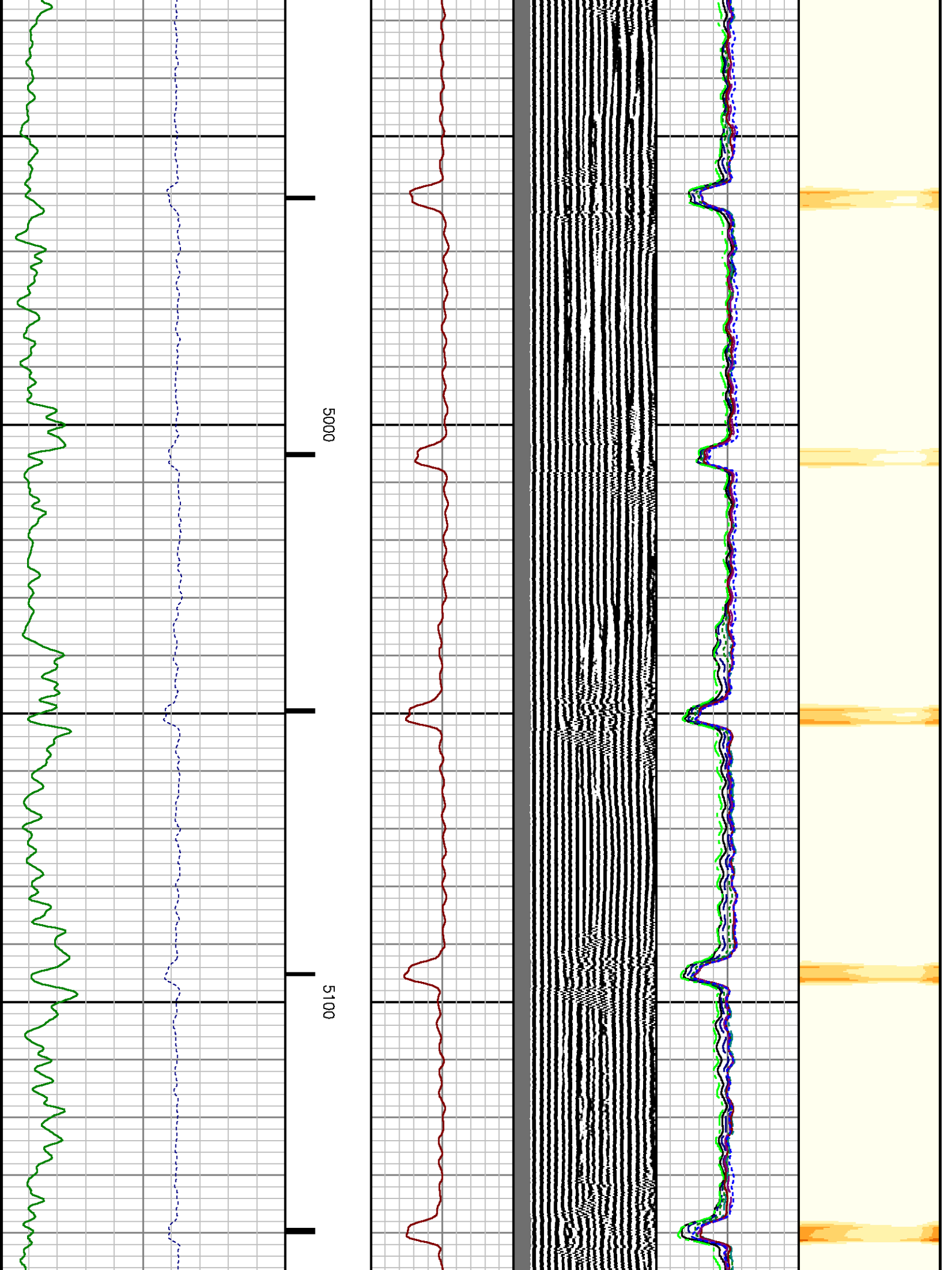


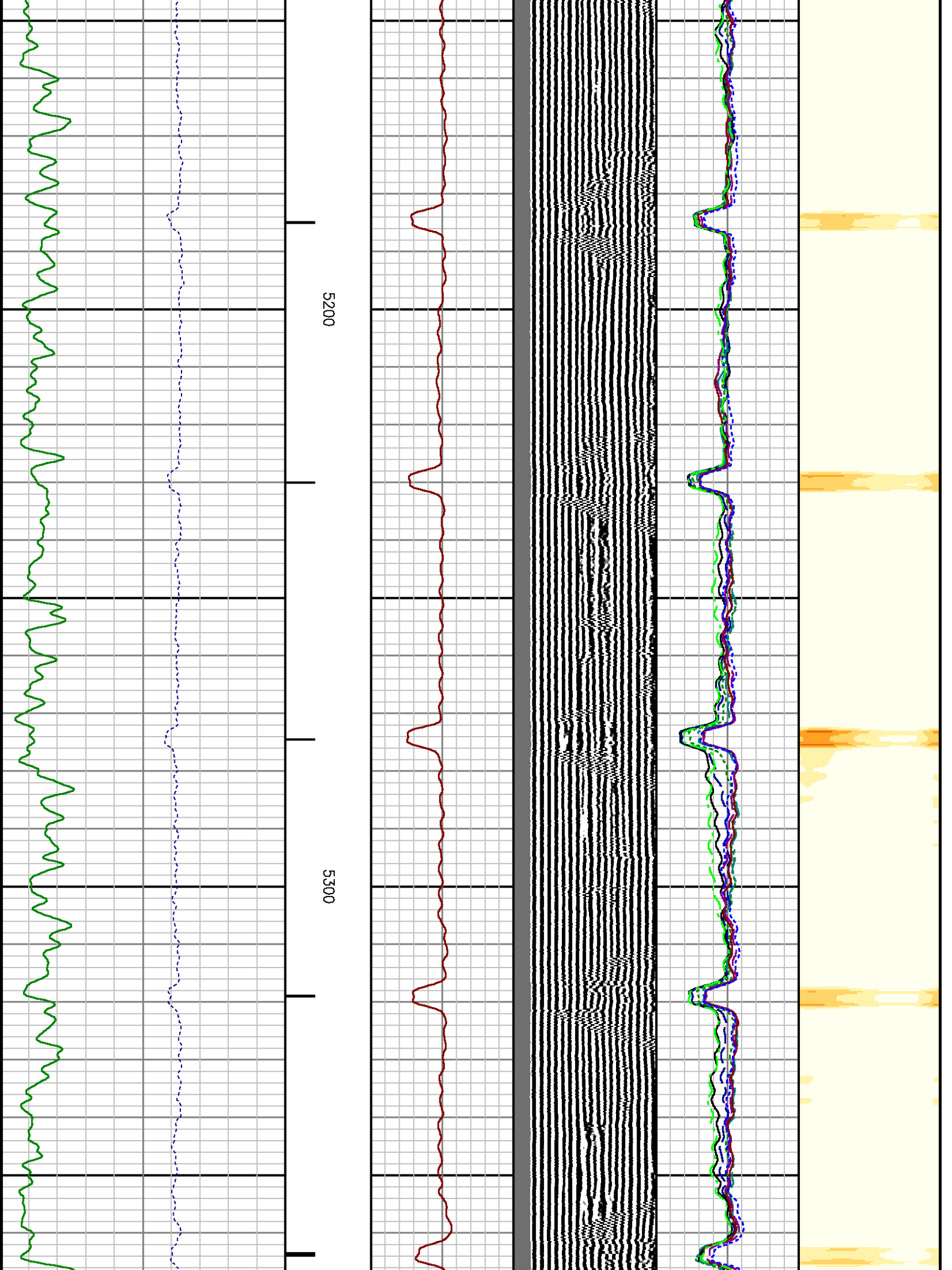


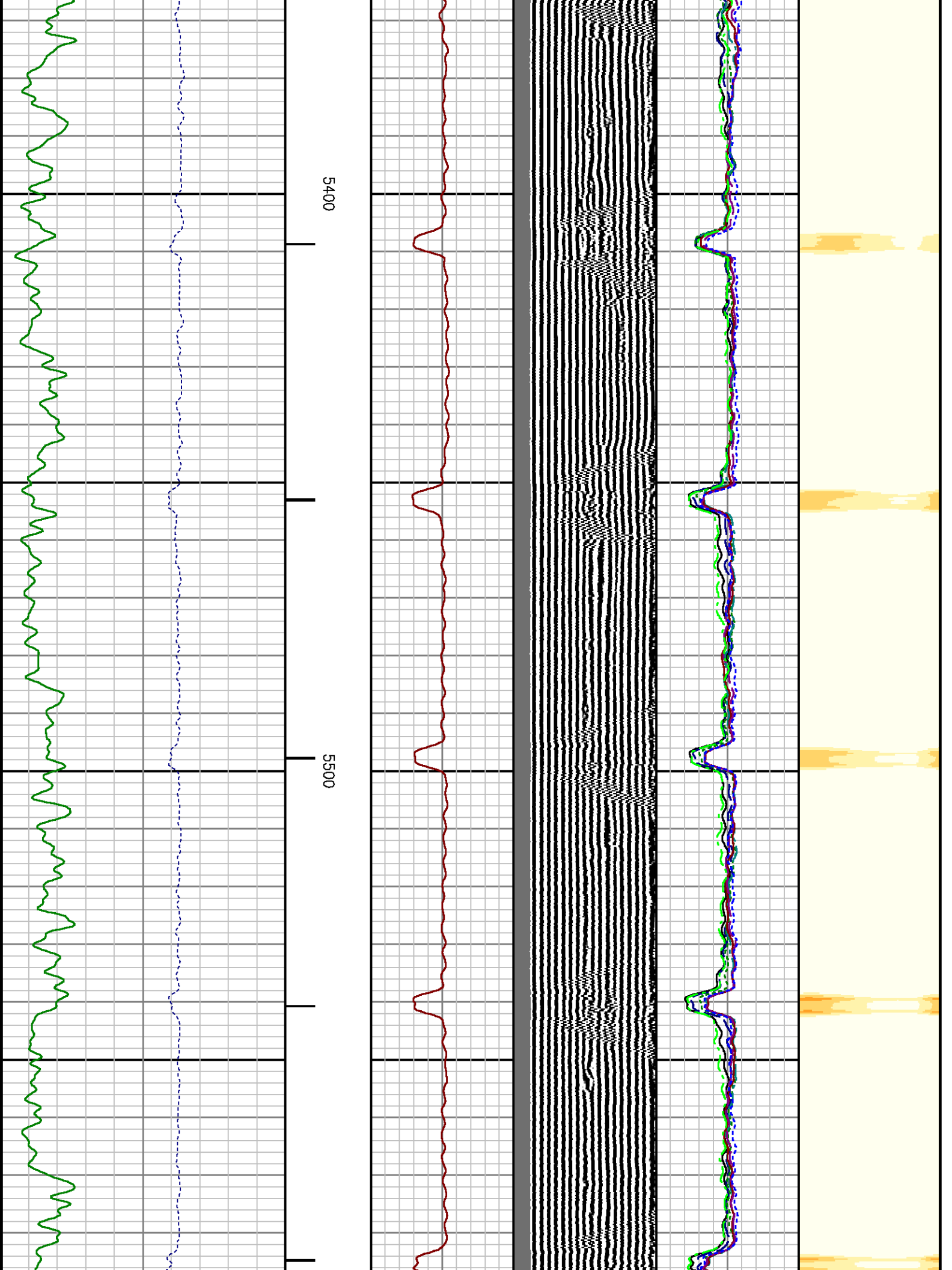


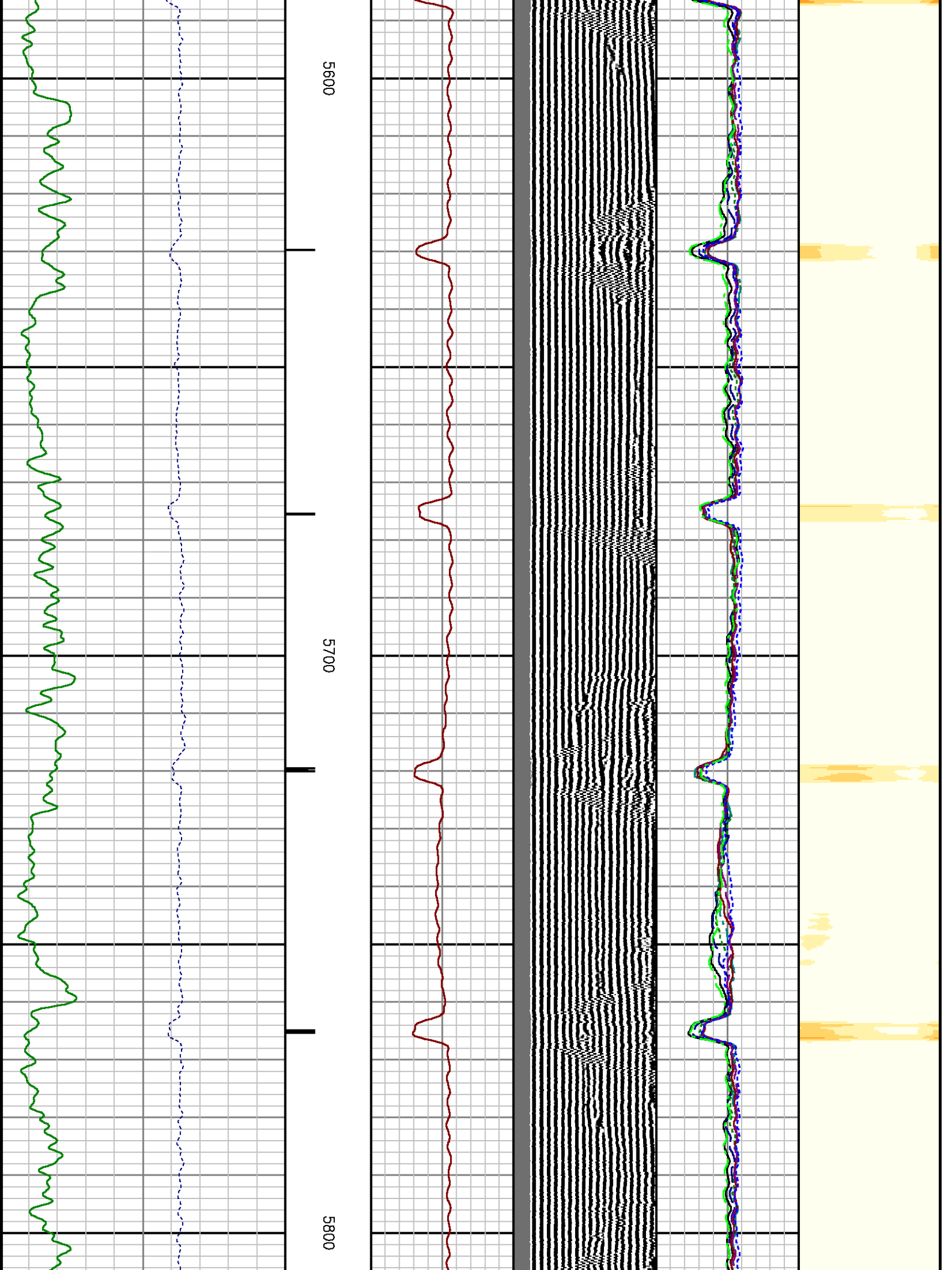


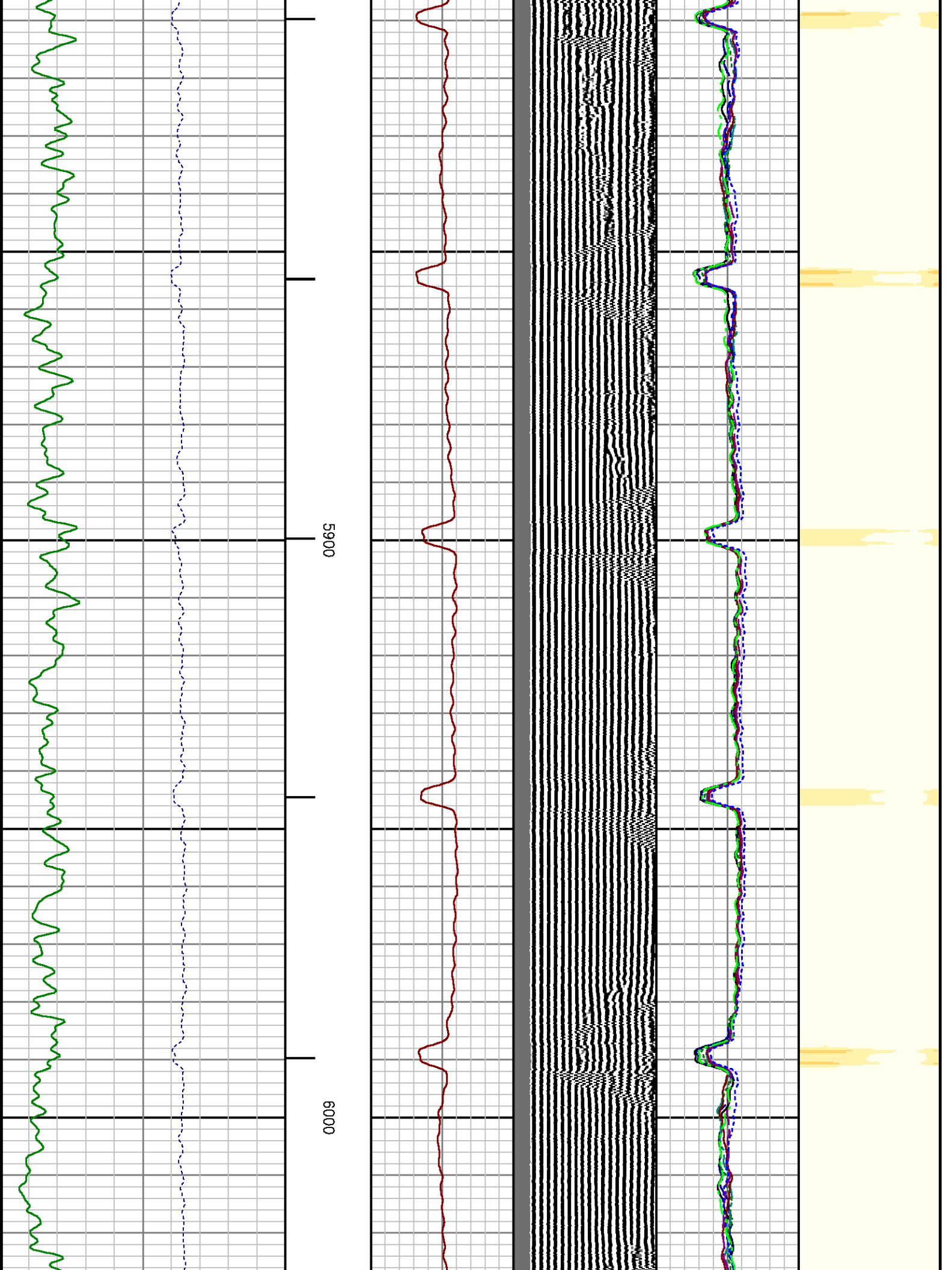


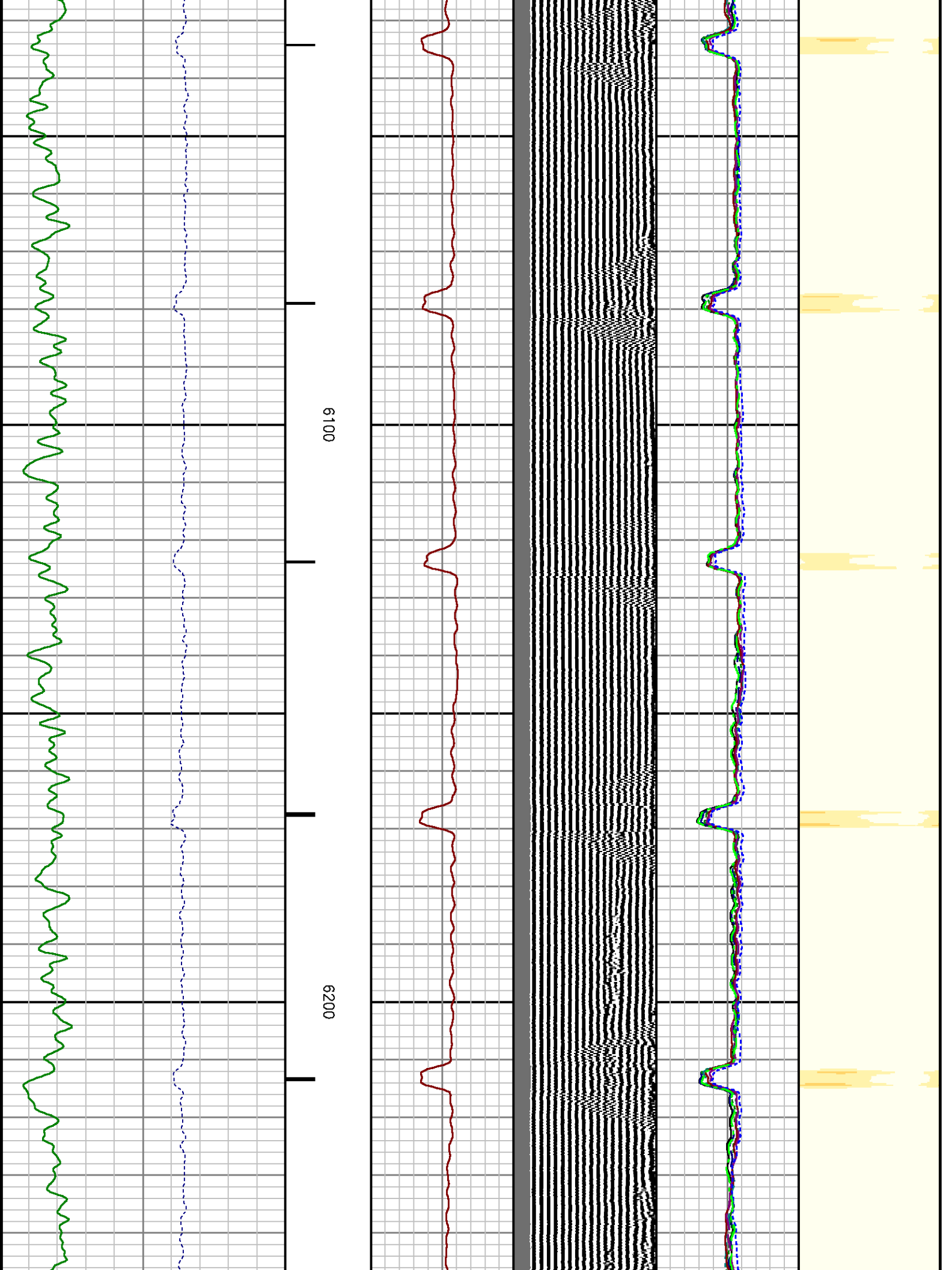


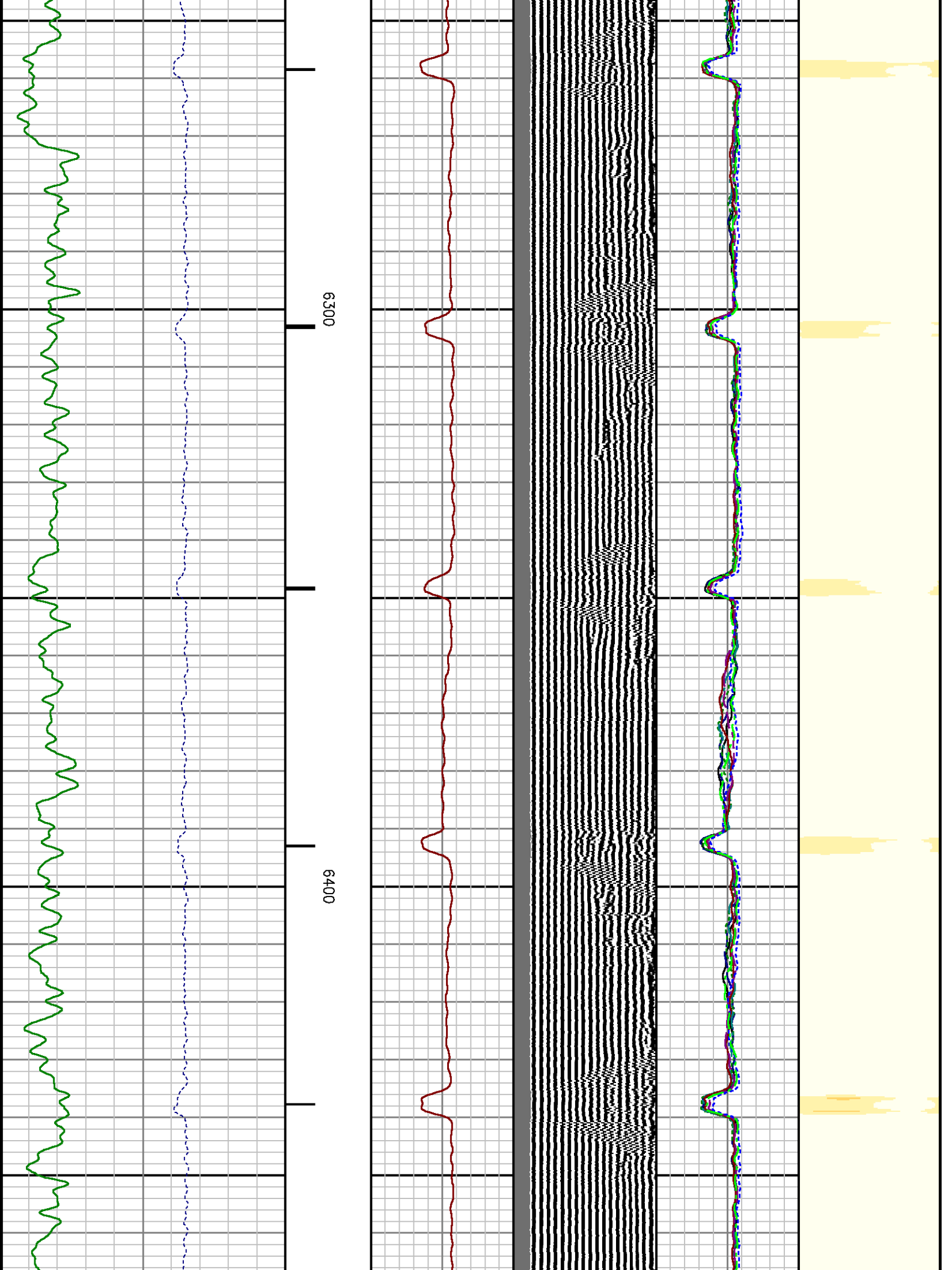


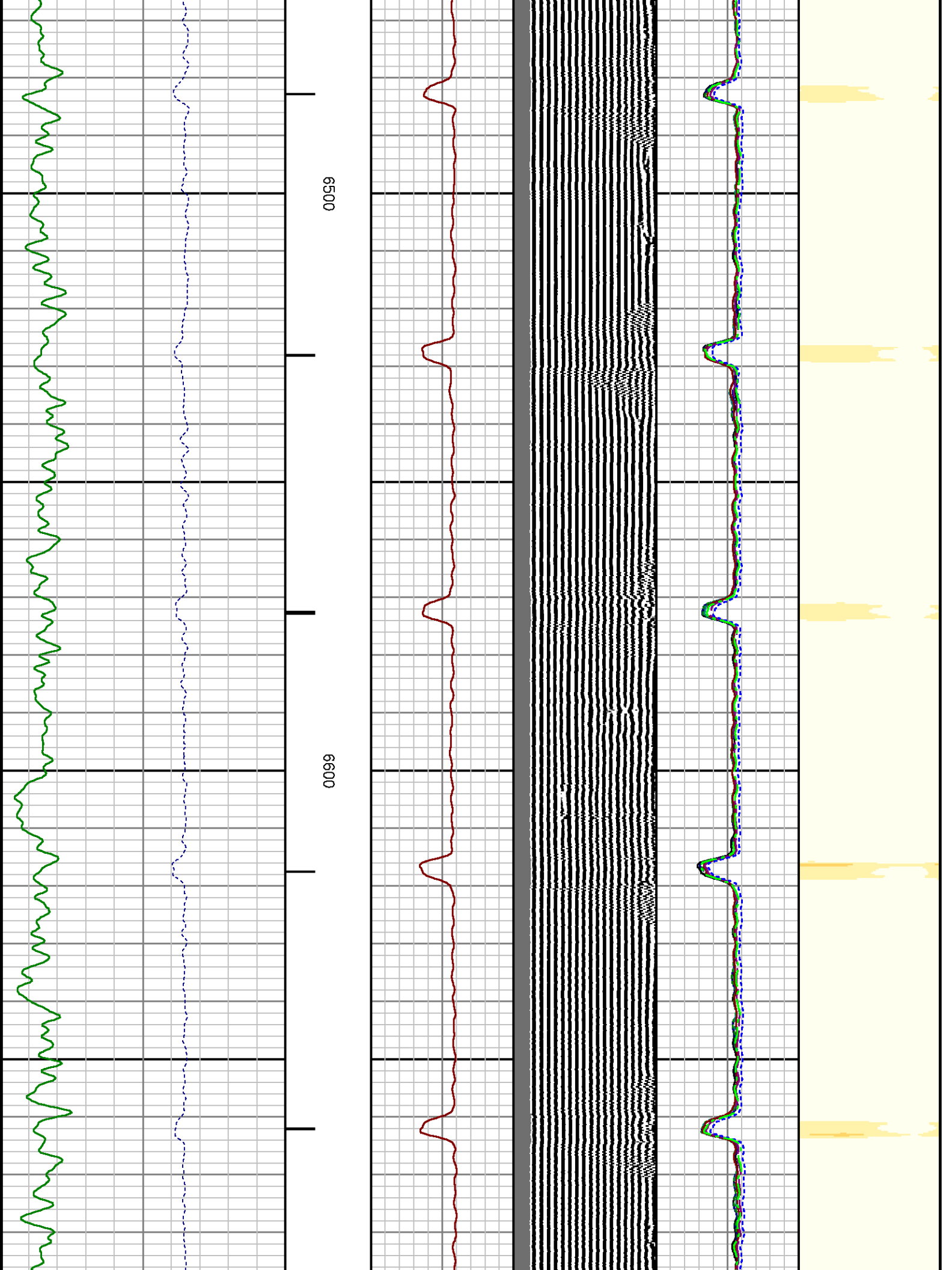


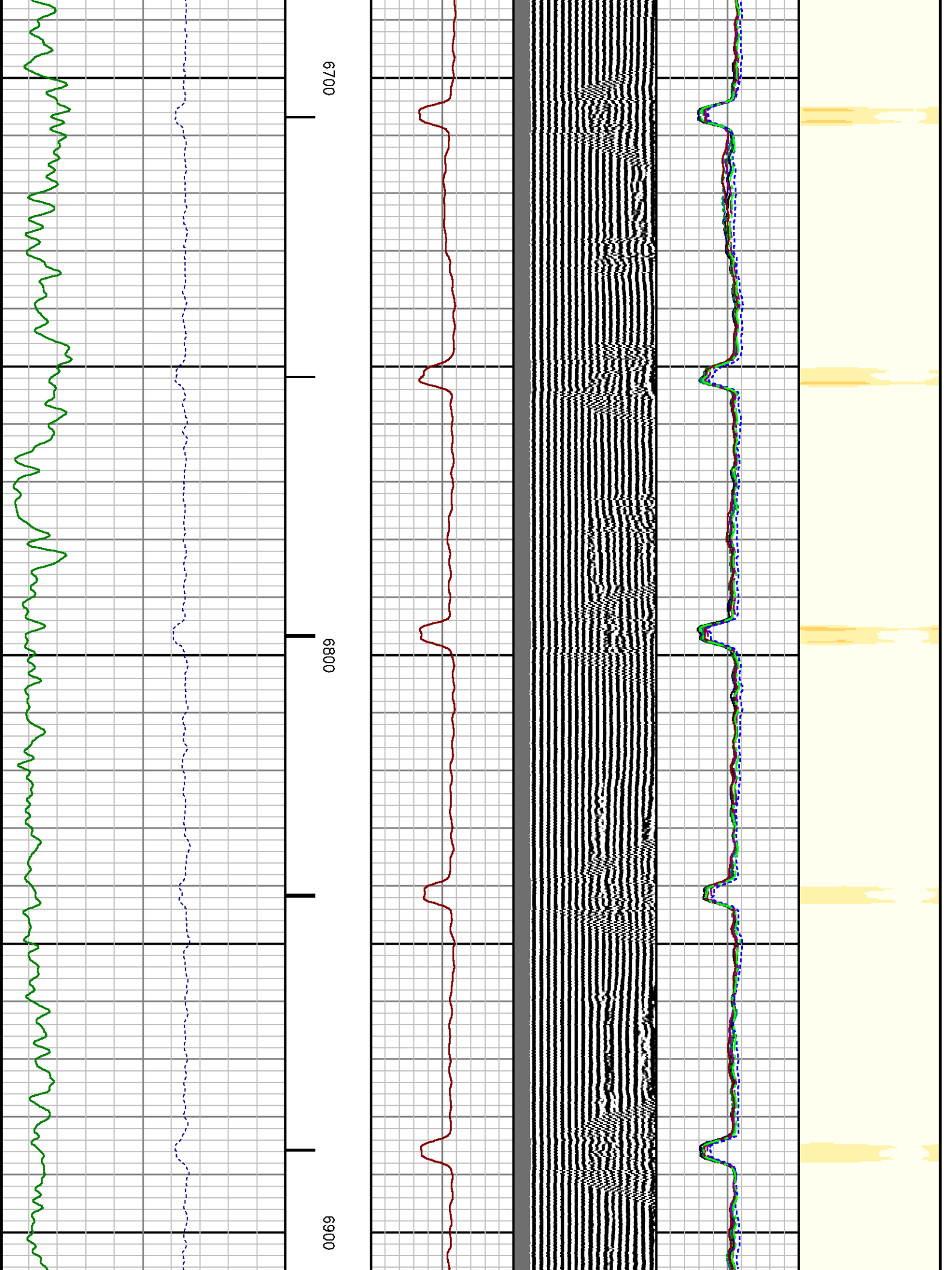


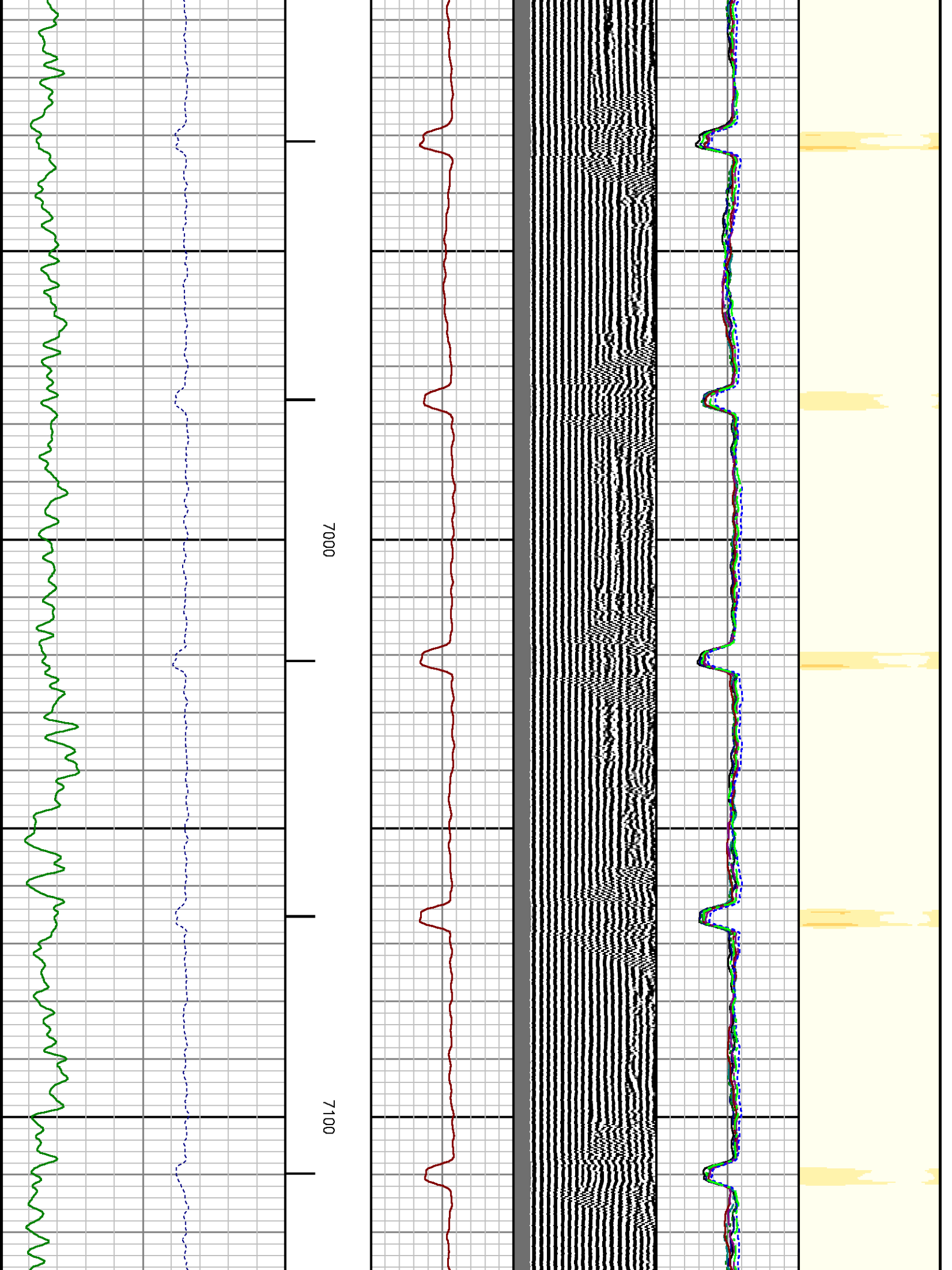


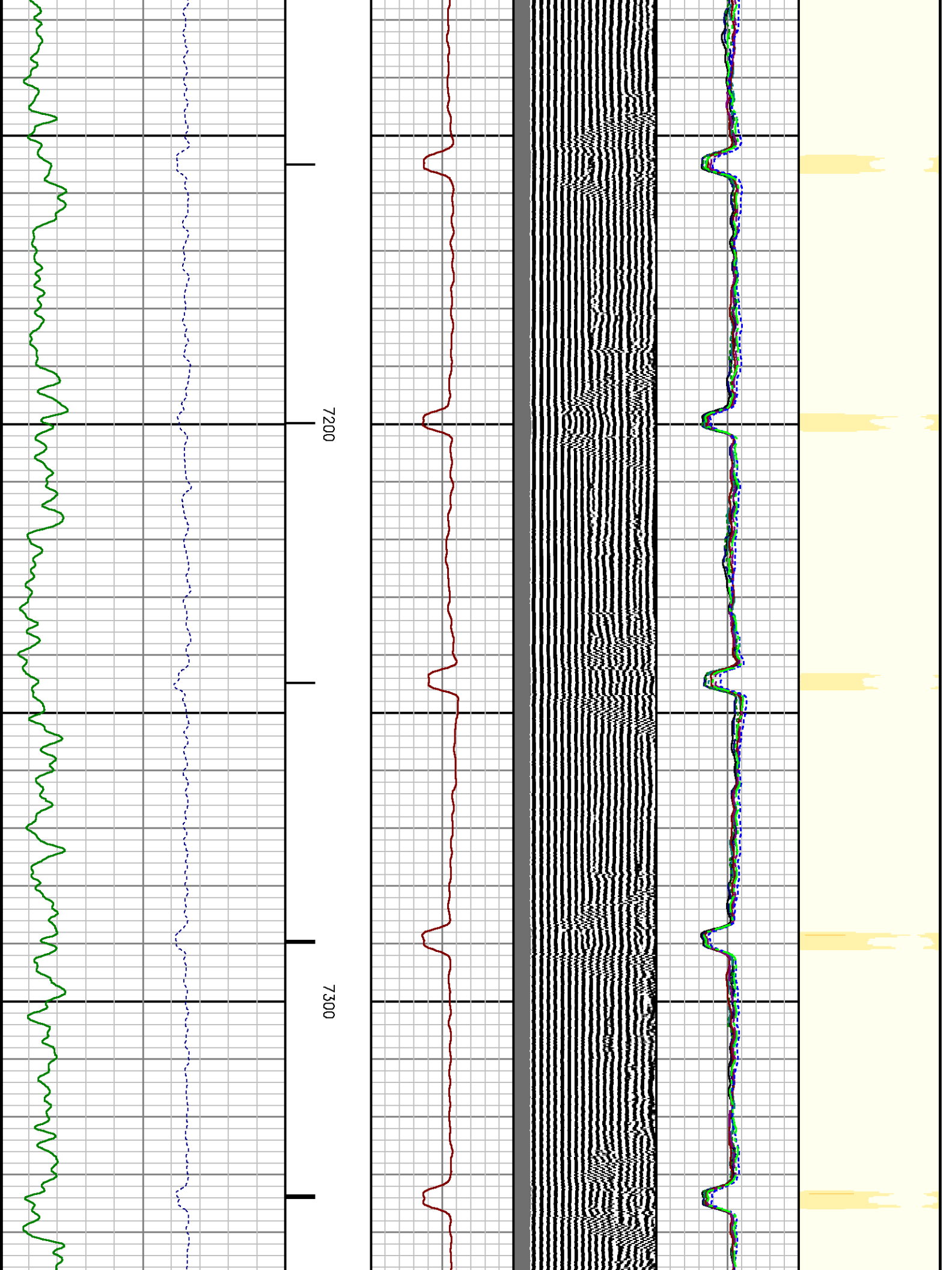


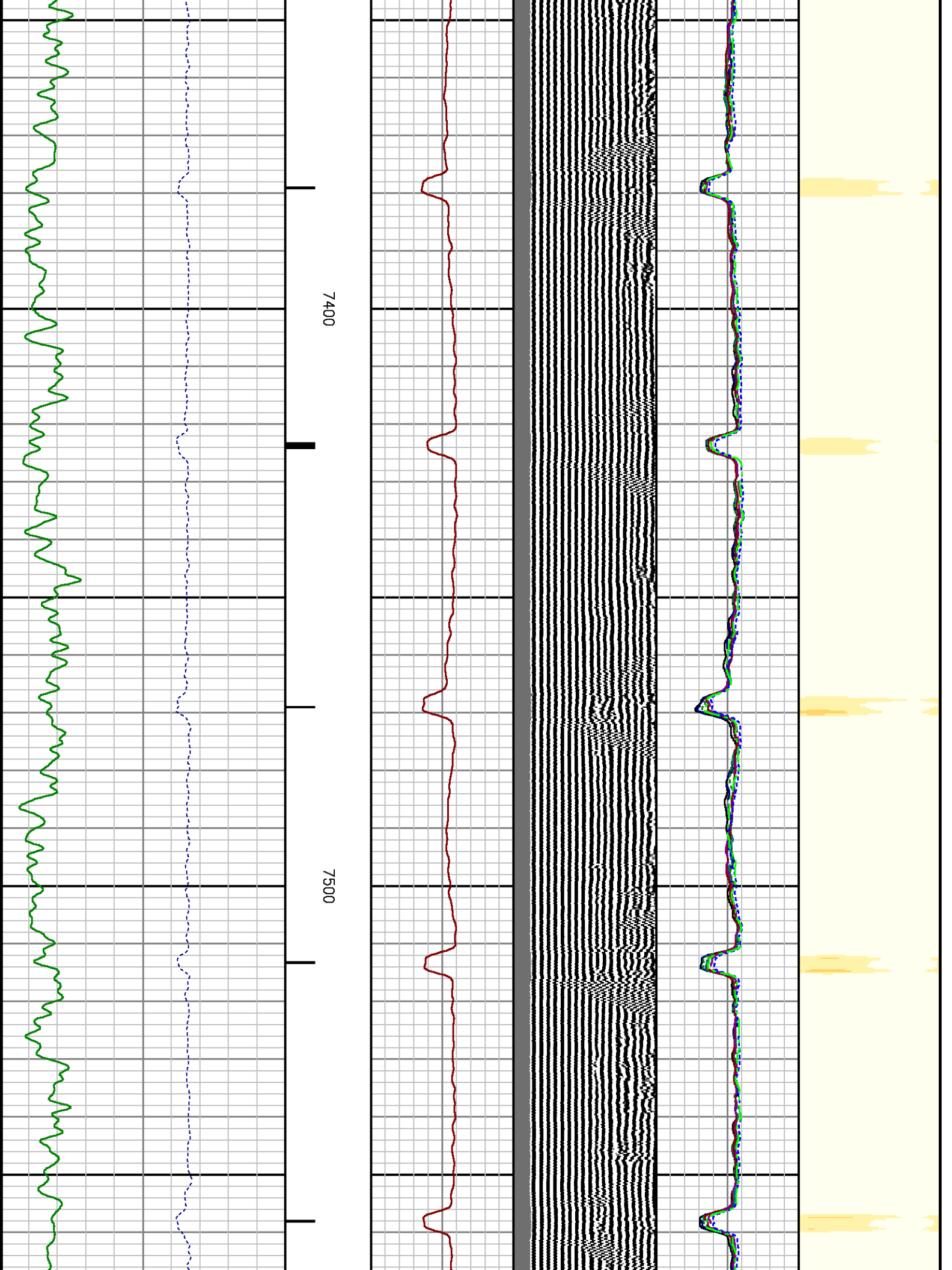


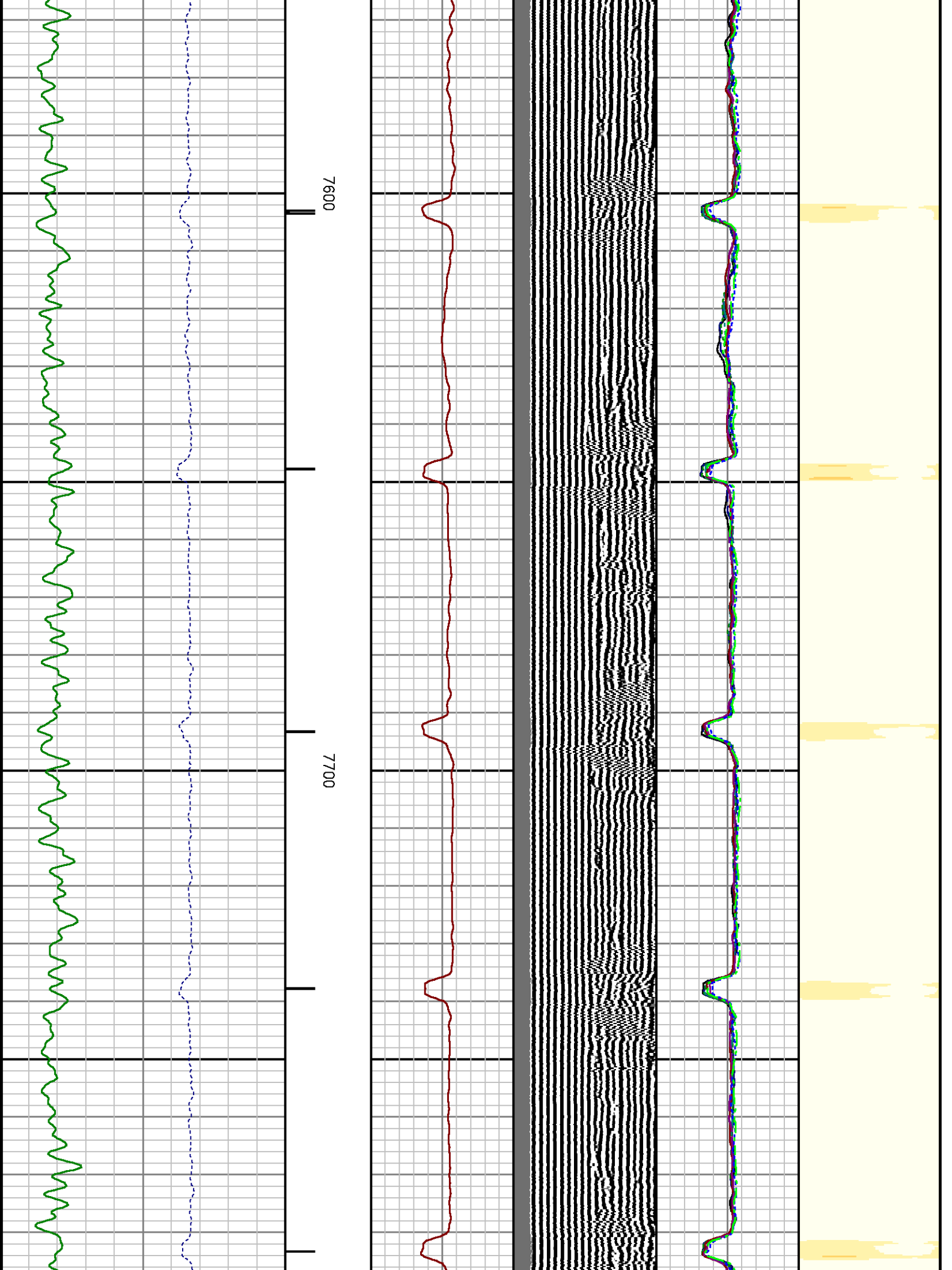


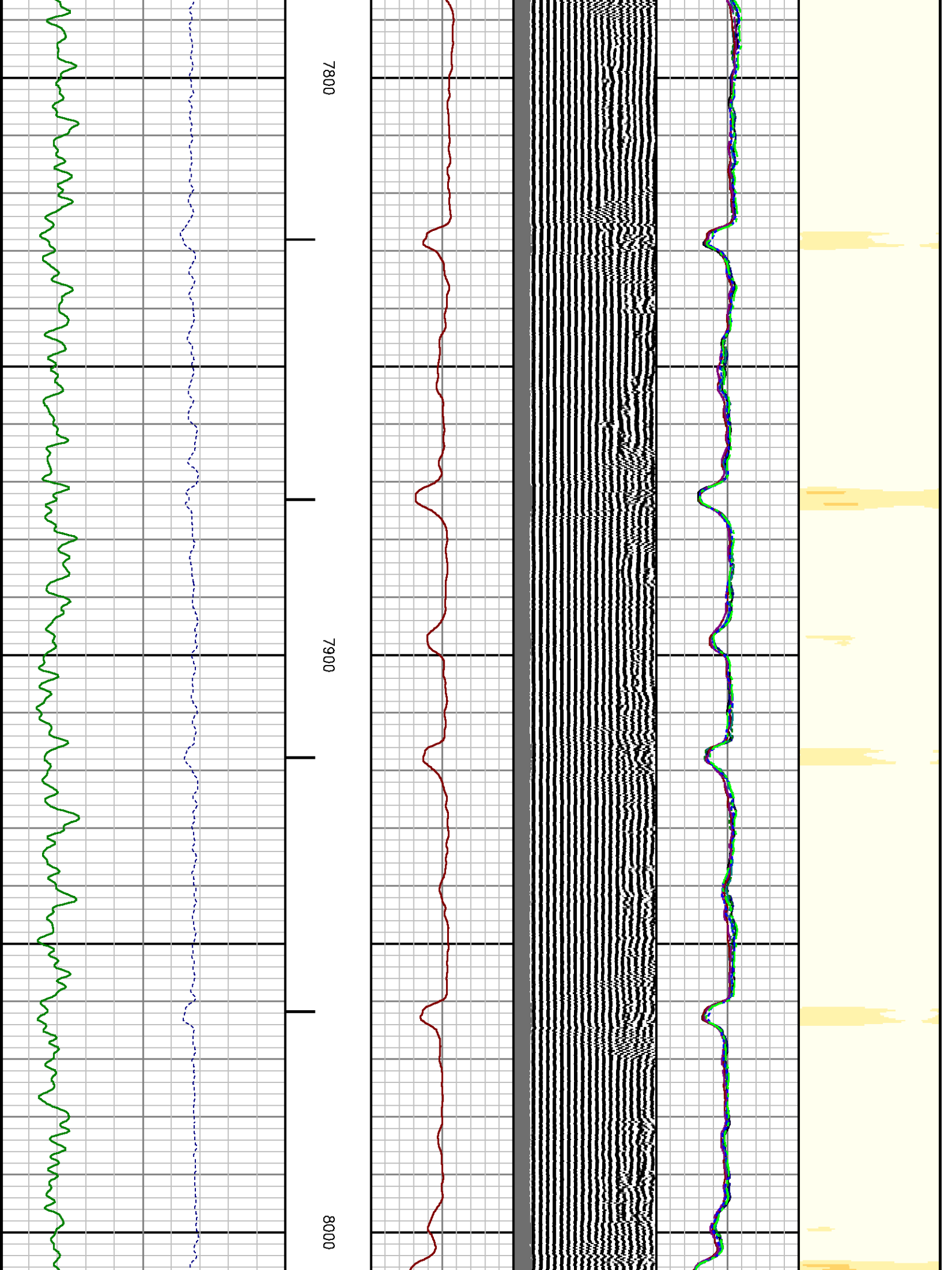


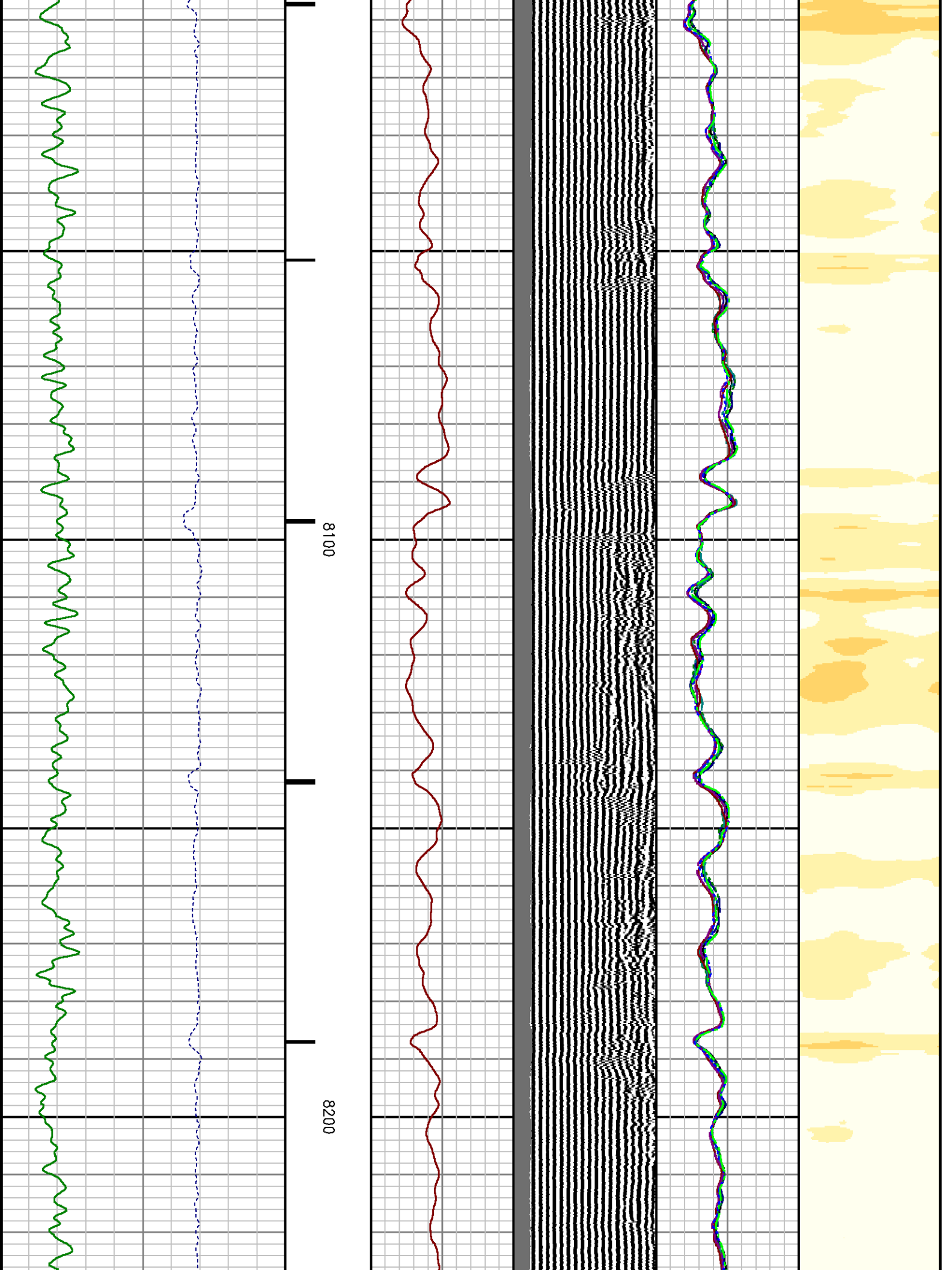


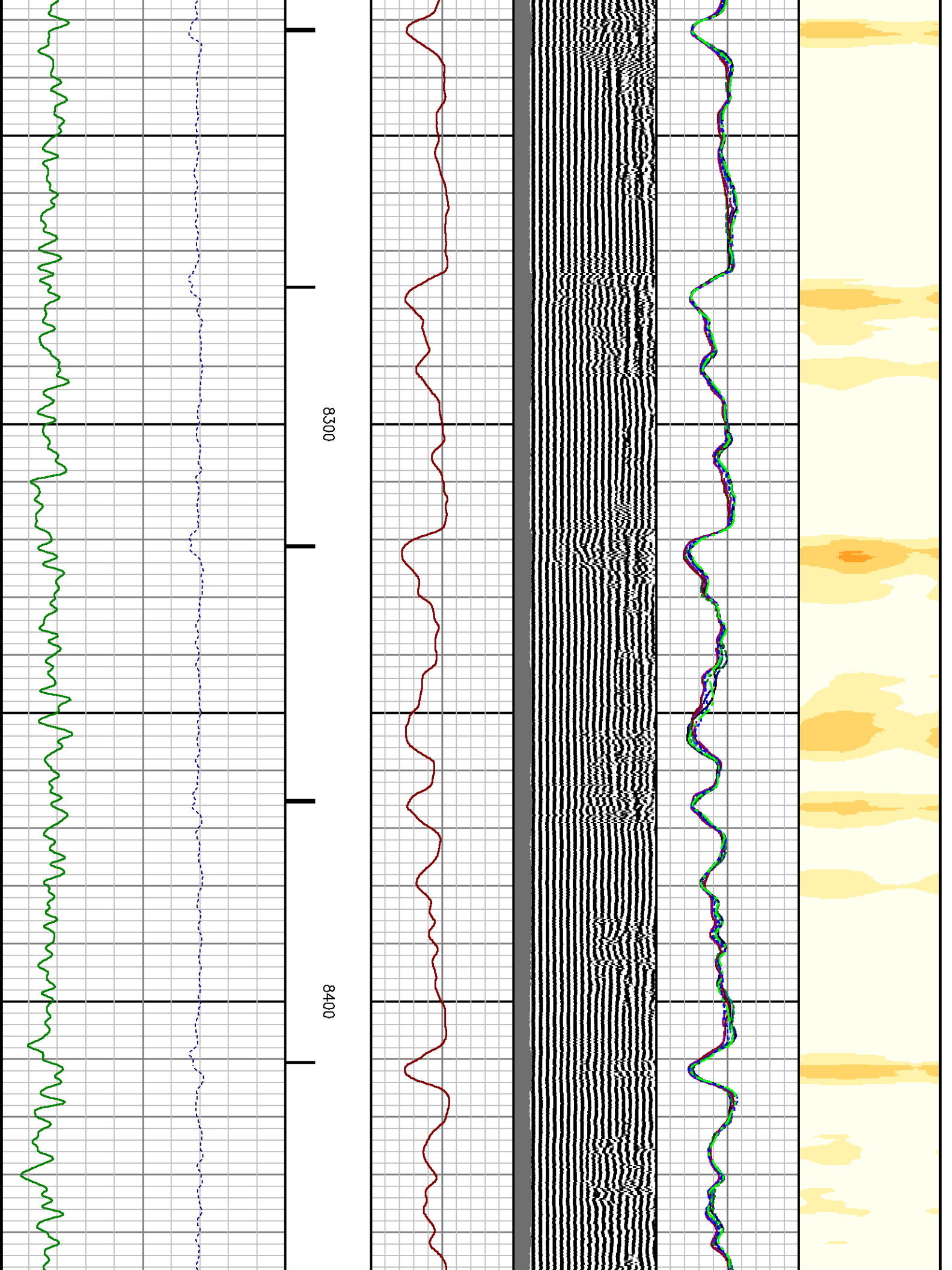


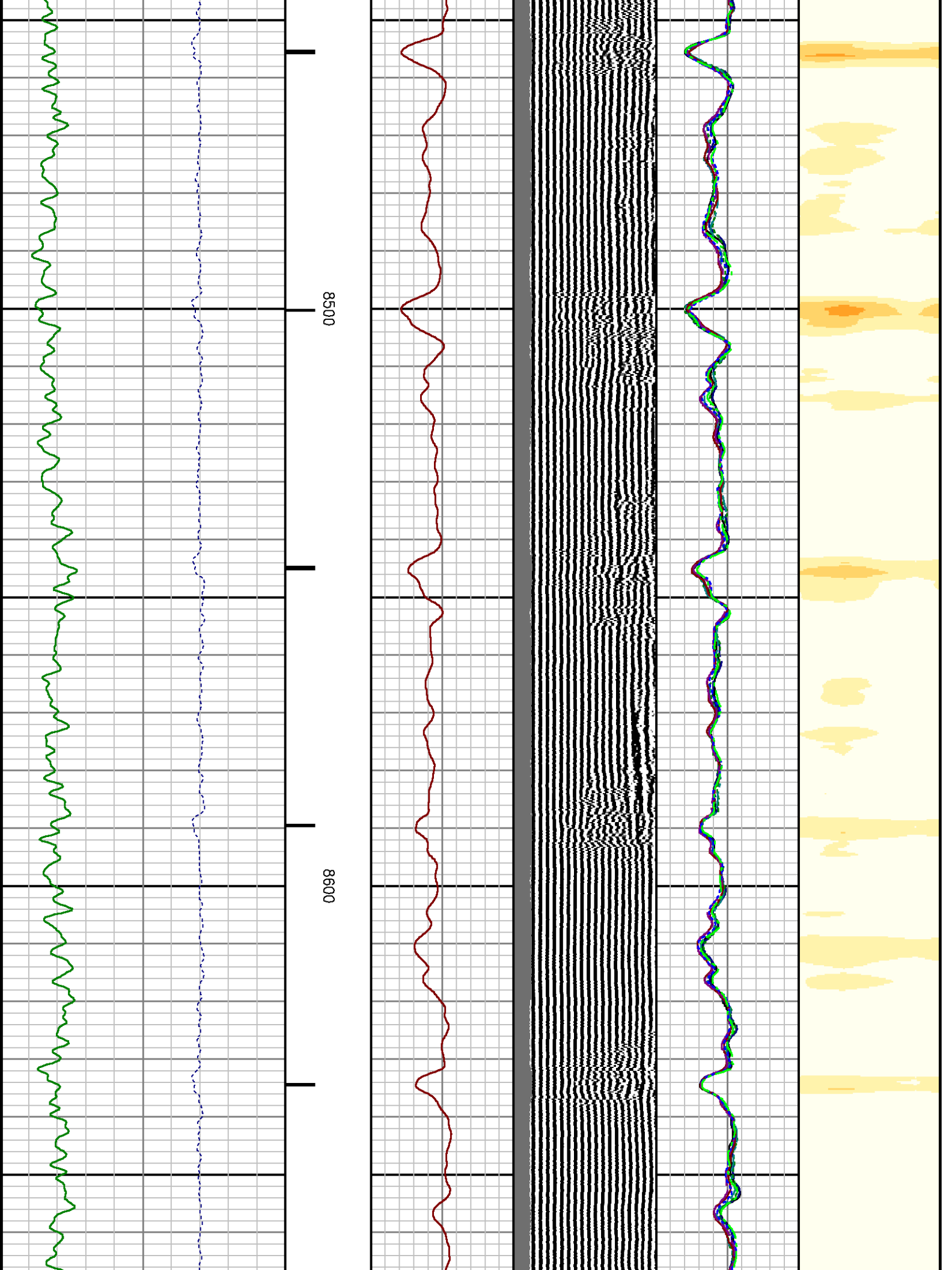


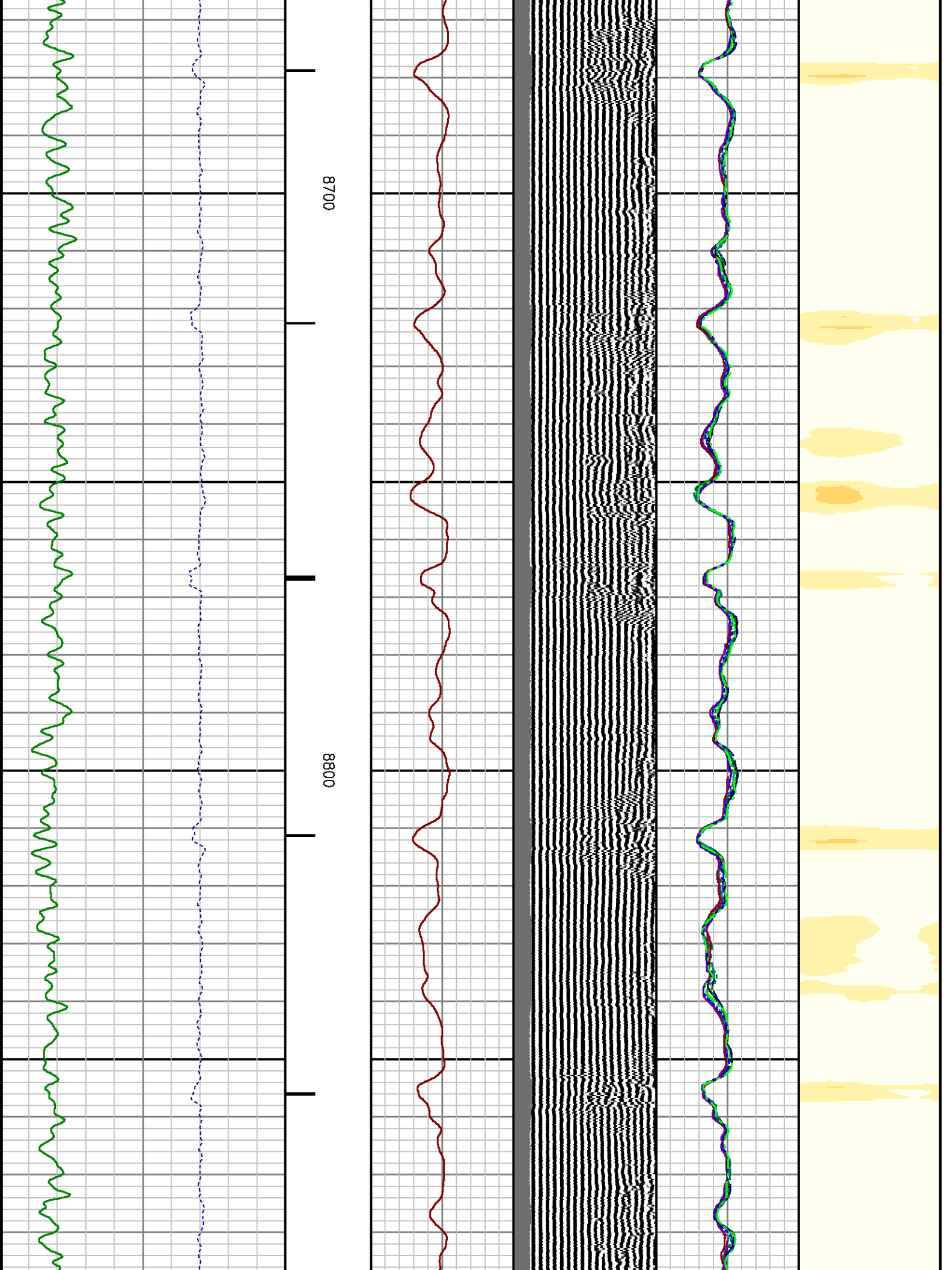


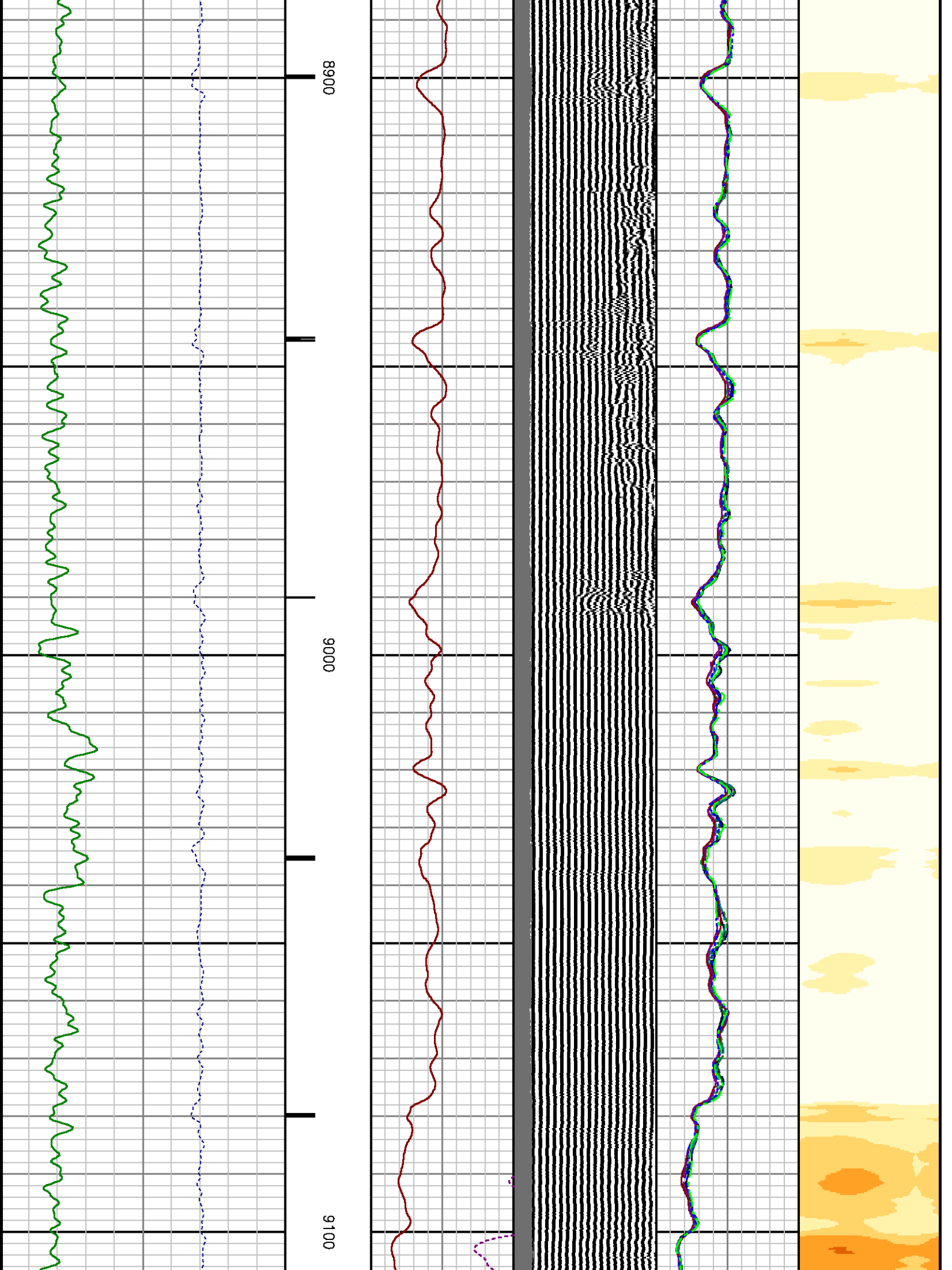


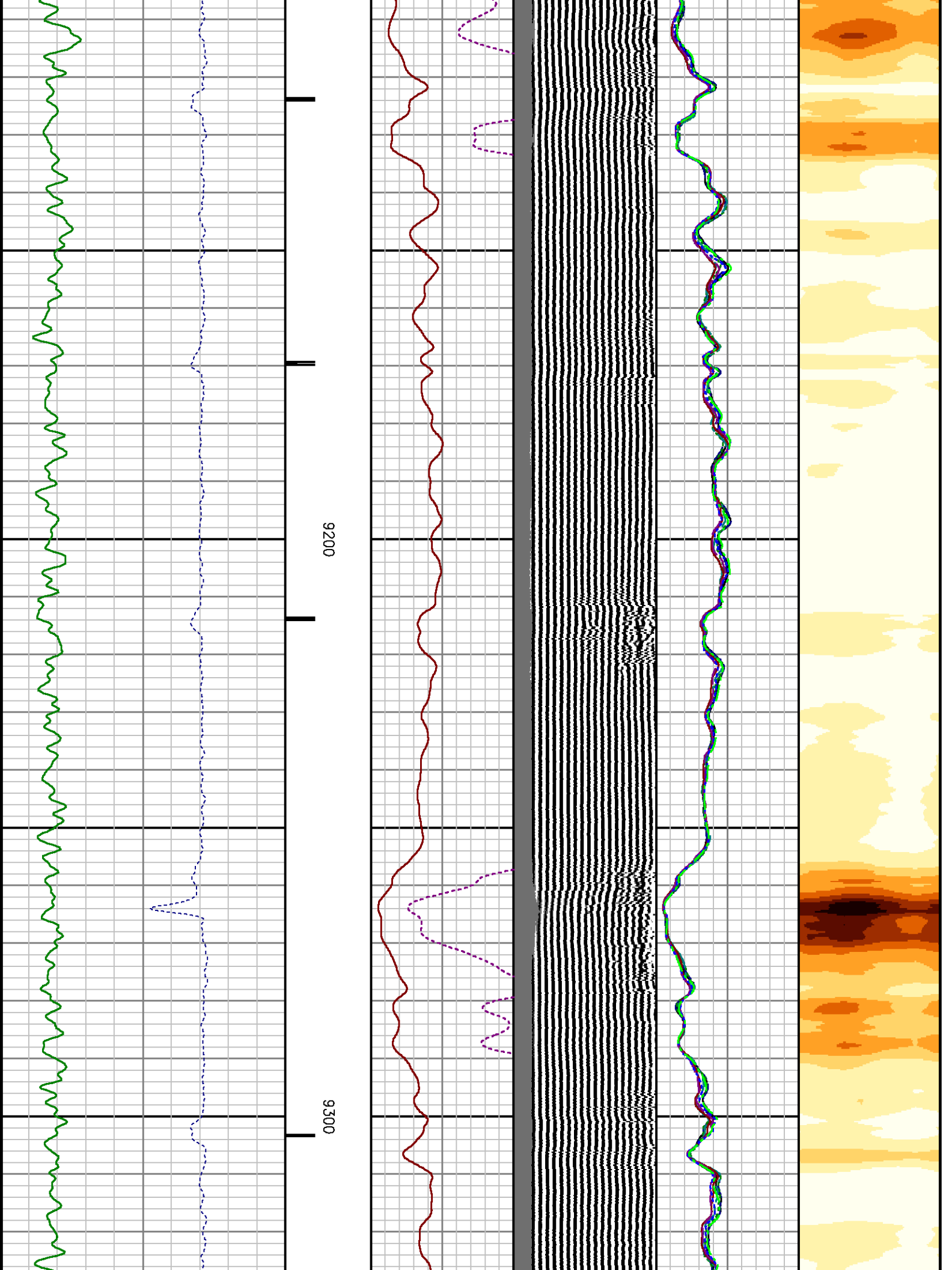


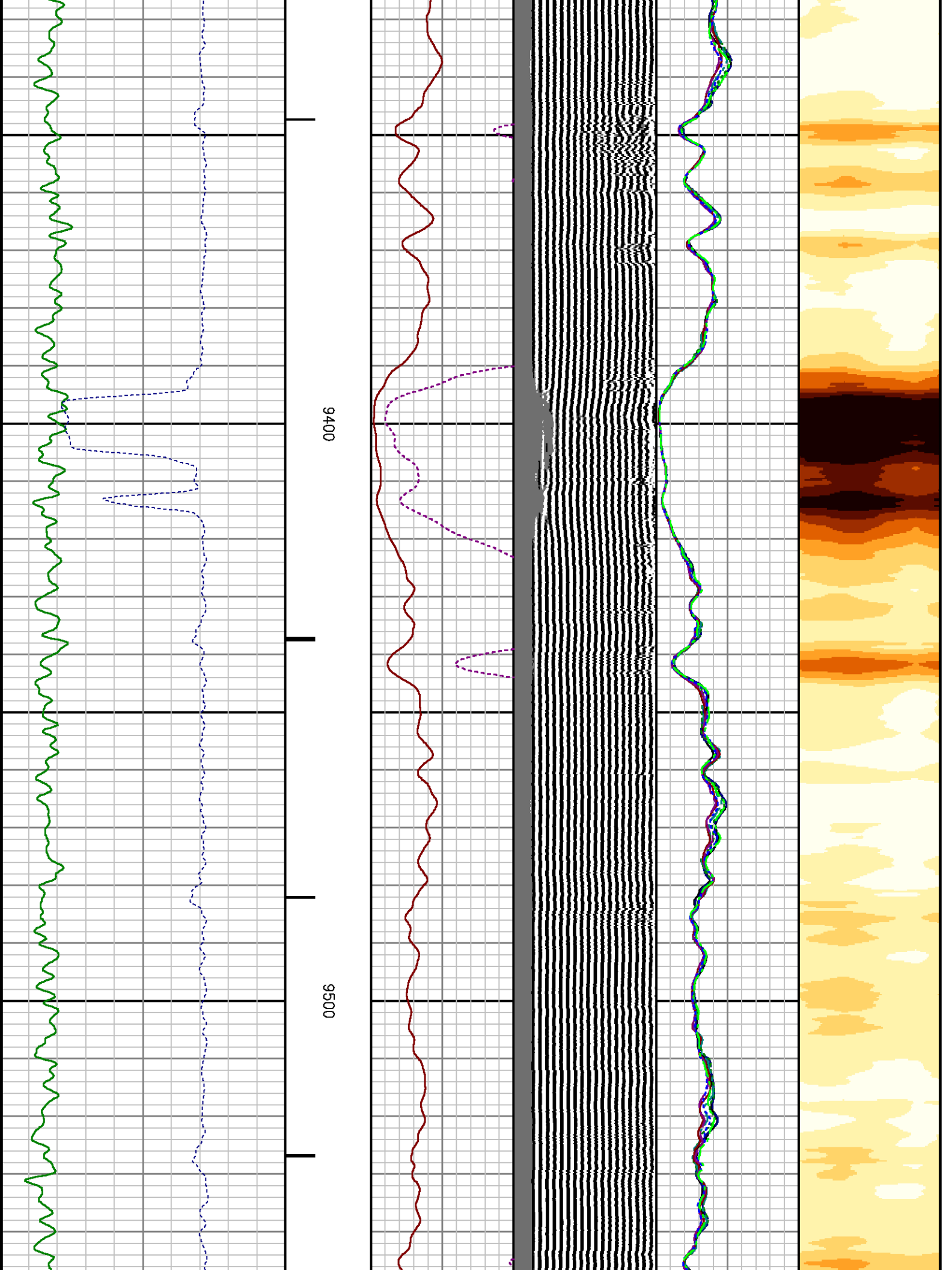


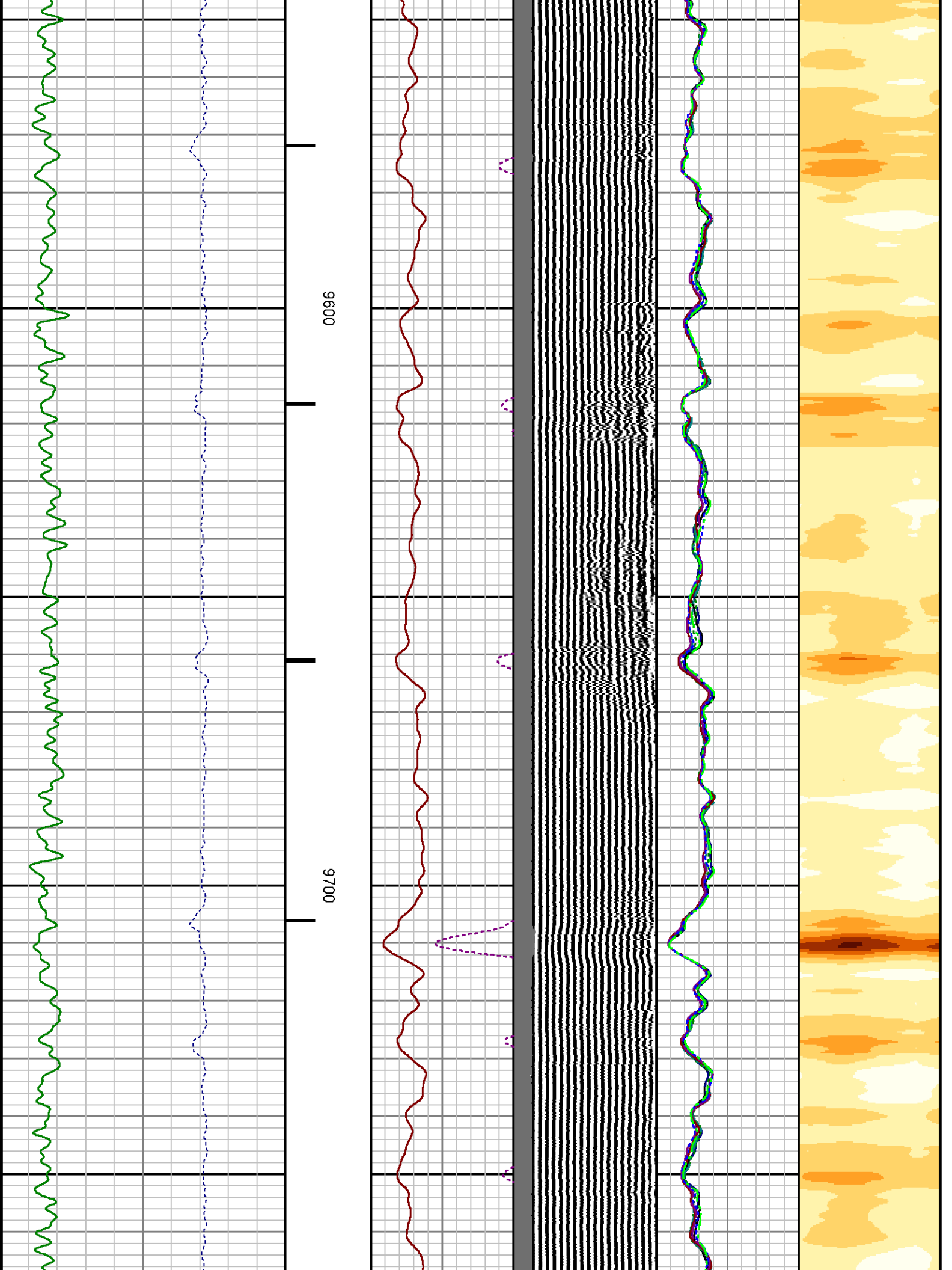


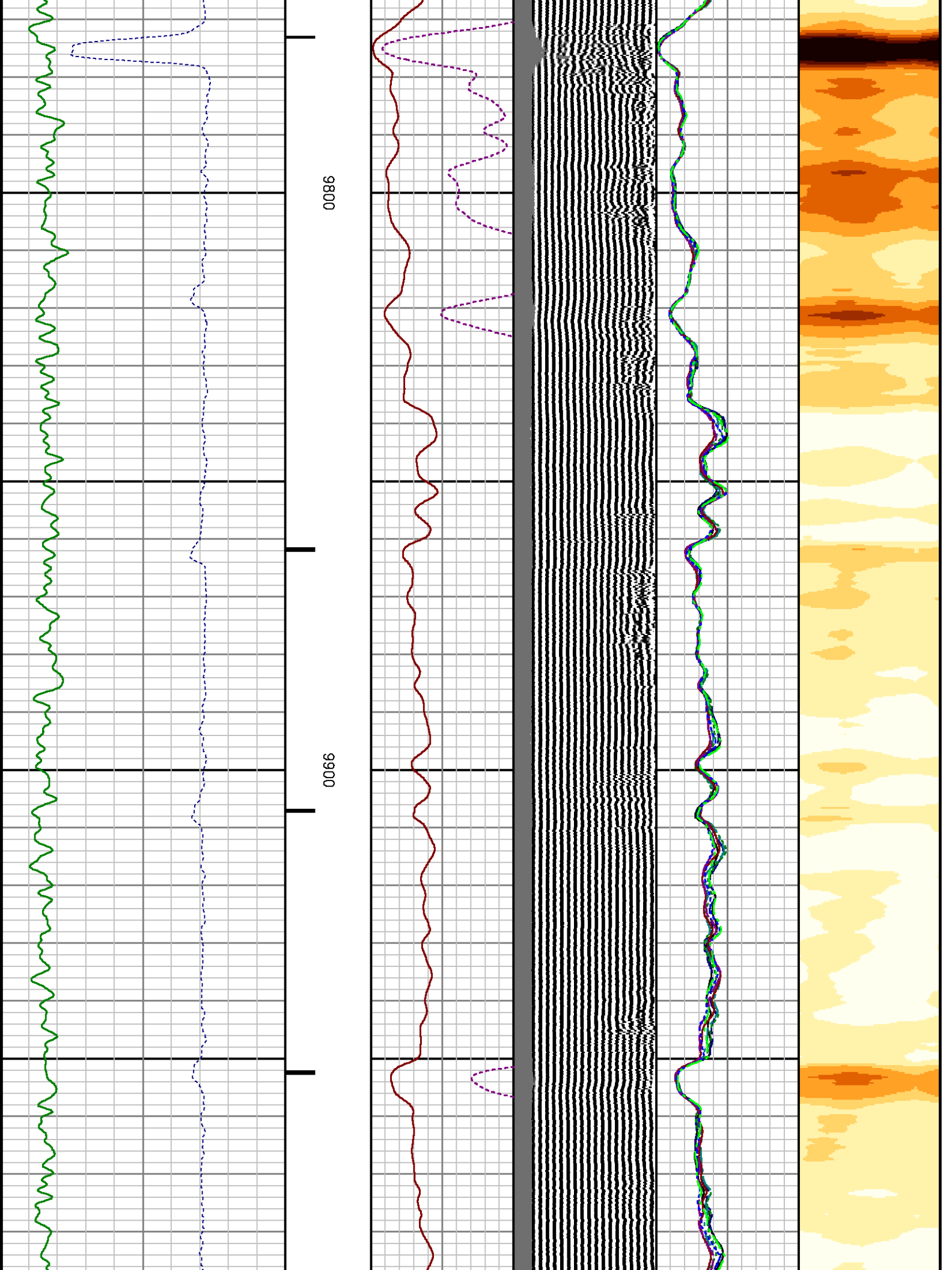


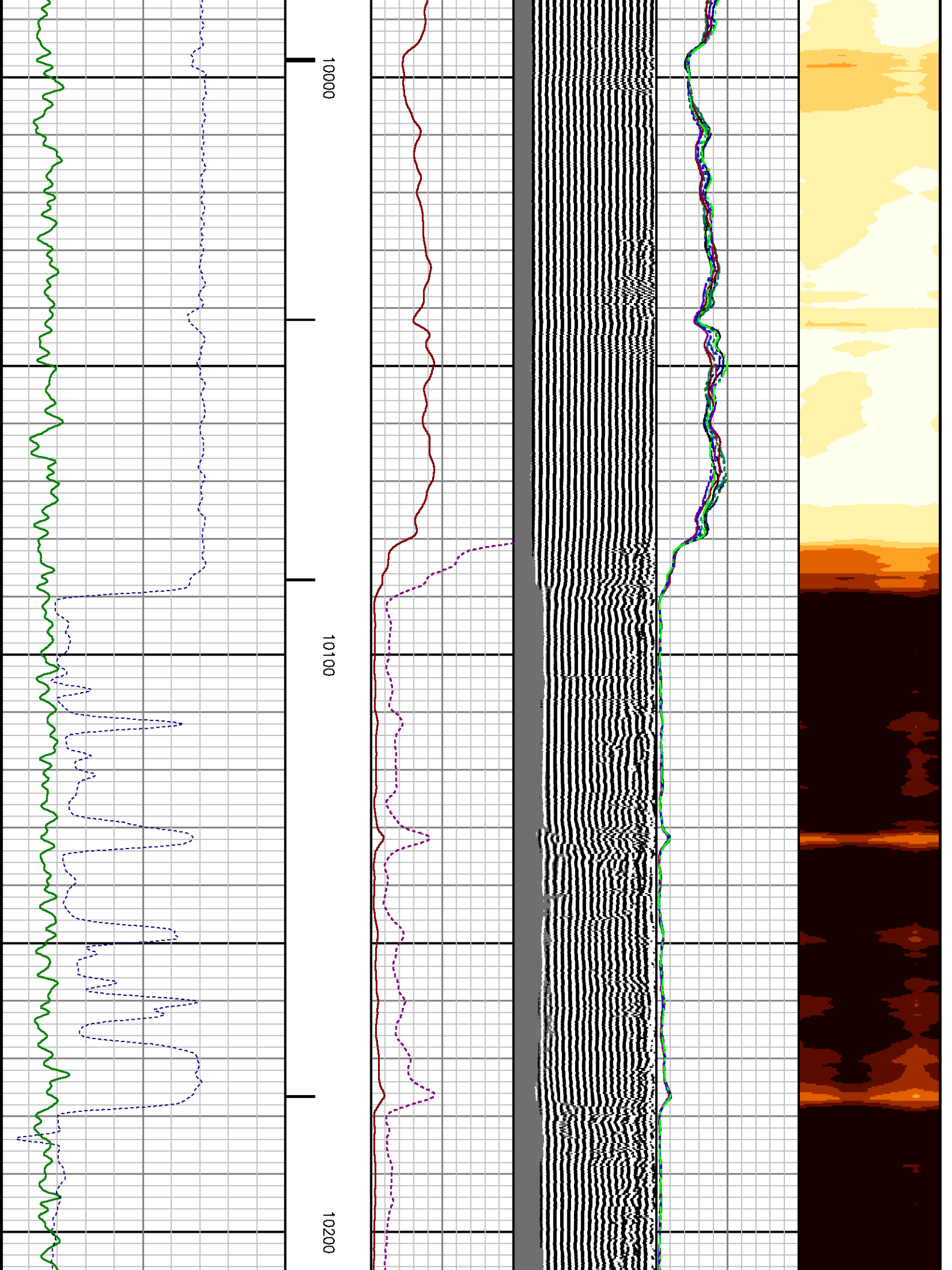


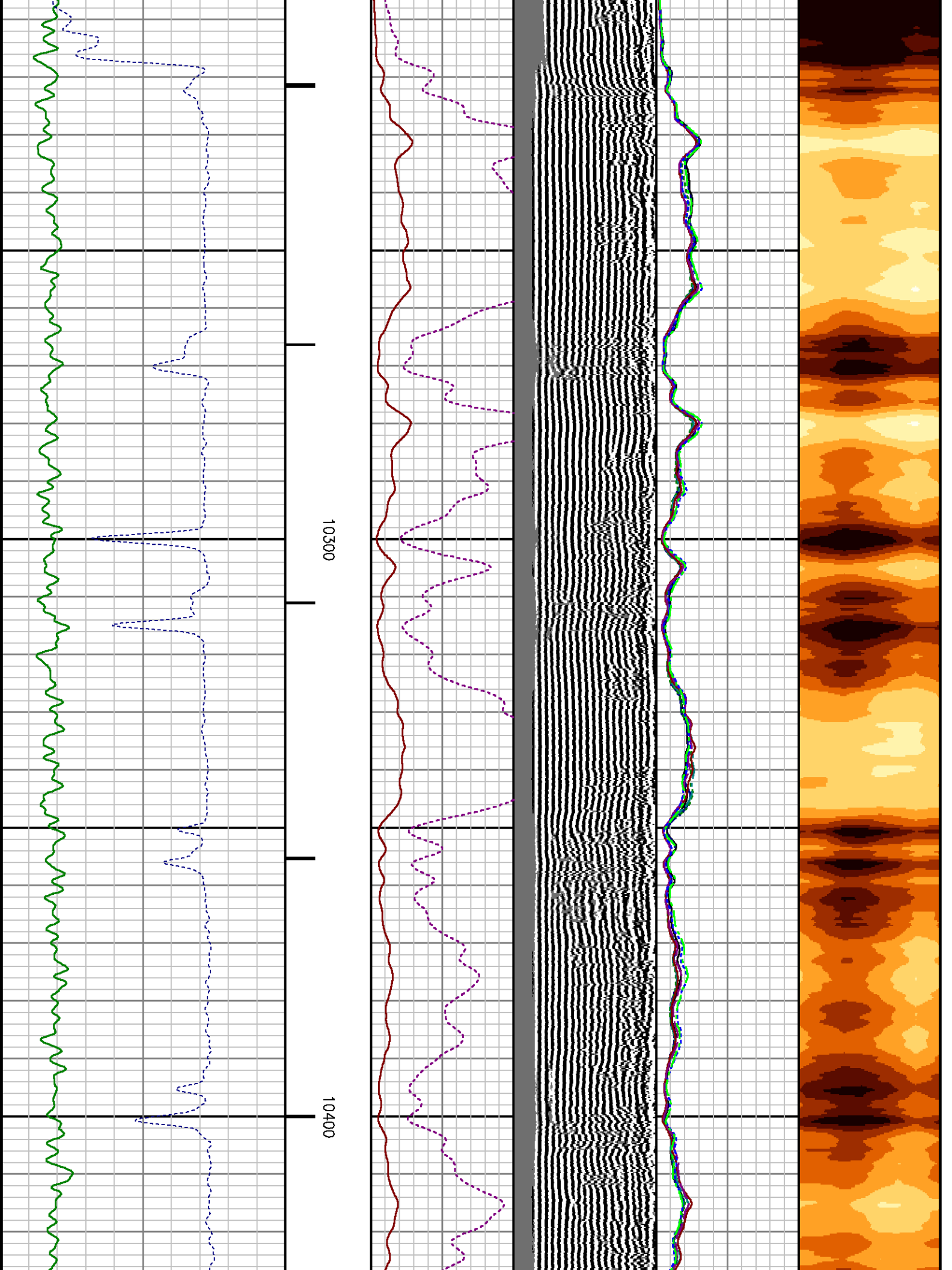


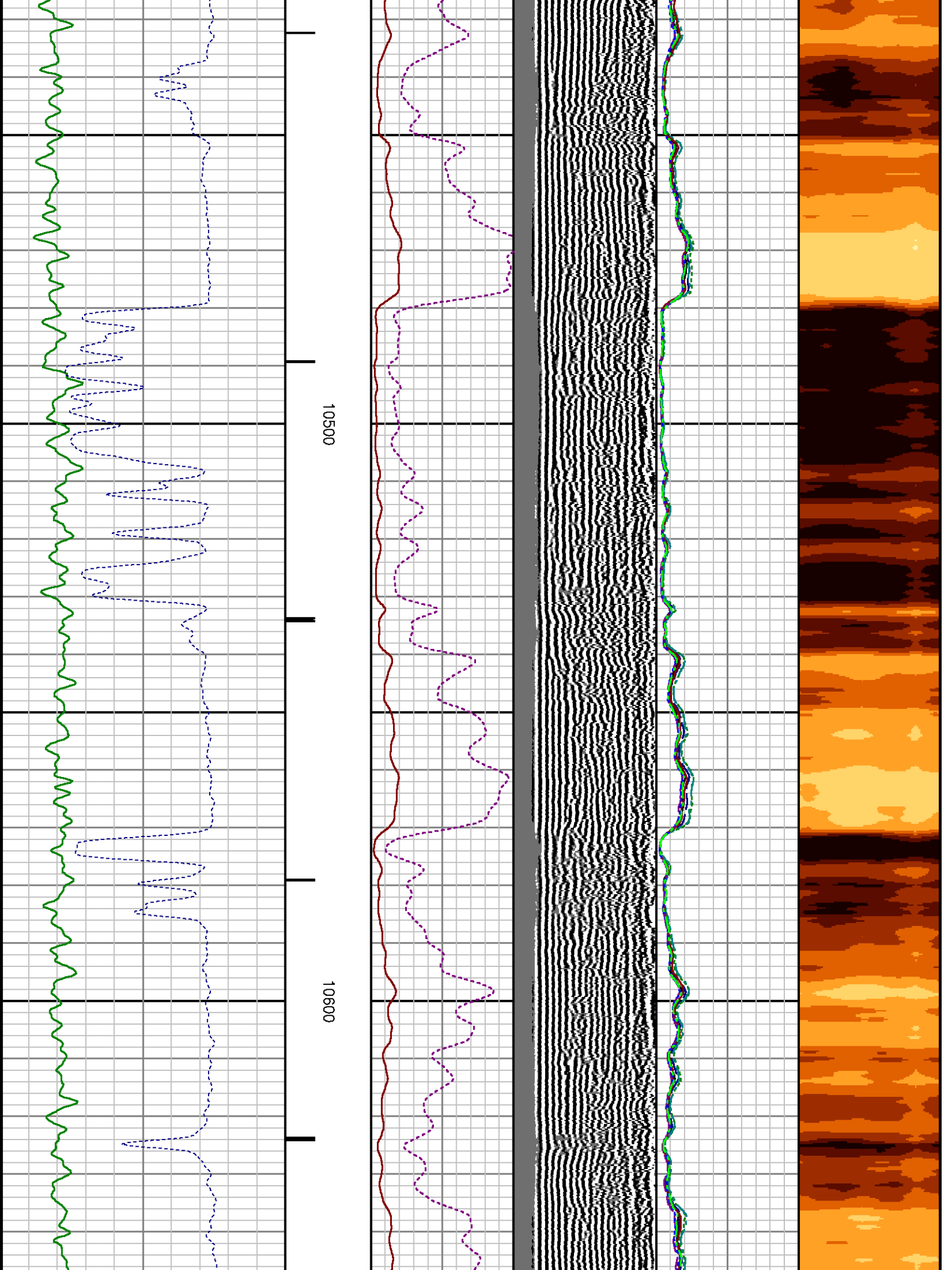


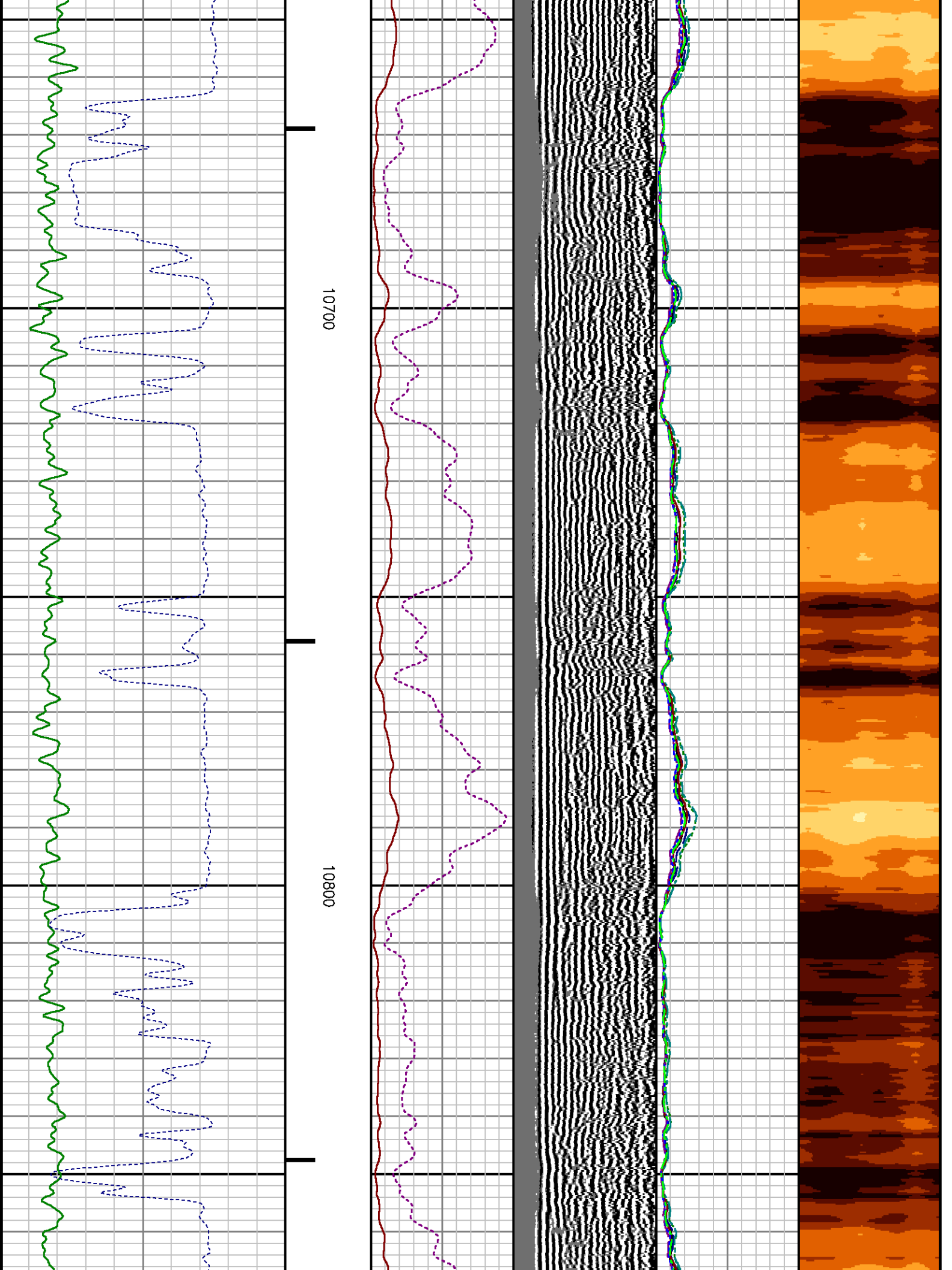


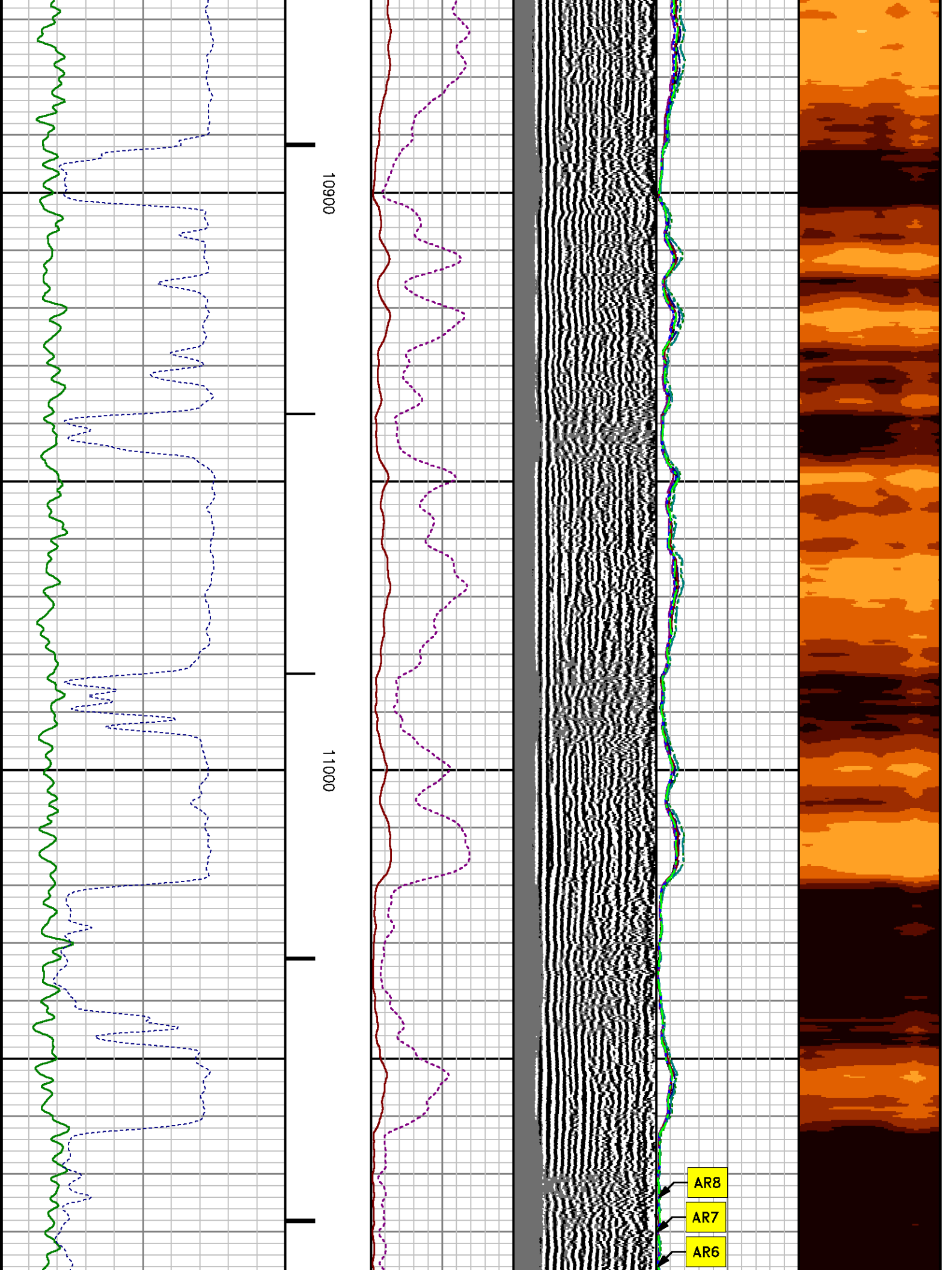












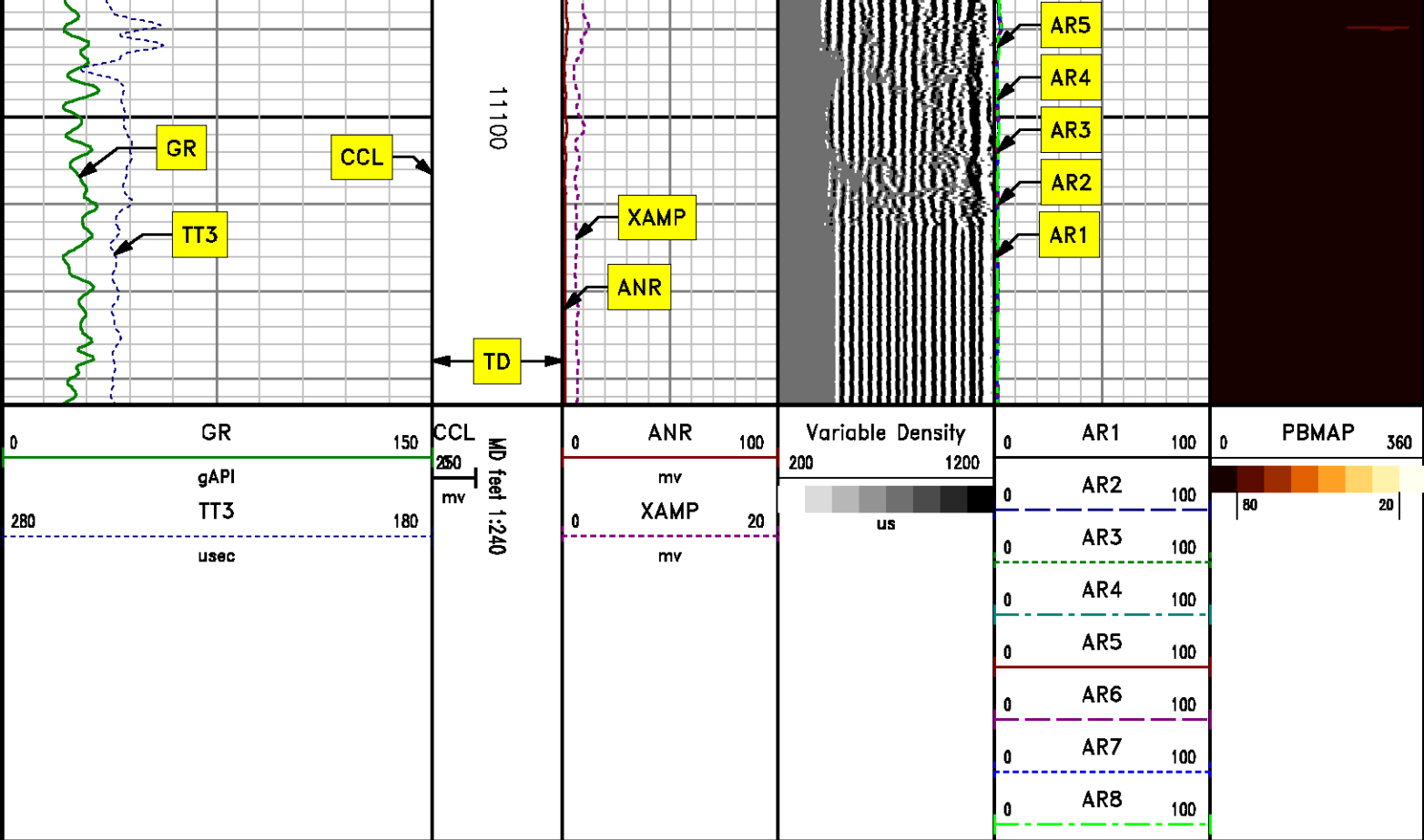
10900

11000

AR8

AR7

AR6



***REPEAT SECTION***  
***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	315.000	usec	10816.000	11220.500
RAL	Amp Gate Start Near	200.000	usec	10816.000	11220.500
RAL	Amp Gate Start Radial	200.000	usec	10816.000	11220.500
RAL	Amp Gate Width Far	25.000	usec	10816.000	11220.500
RAL	Amp Gate Width Near	25.000	usec	10816.000	11220.500
RAL	Amp Gate Width Radial	25.000	usec	10816.000	11220.500
RAL	casing od	5.500	inches	10816.000	11220.500
RAL	casing wt	23.000	lbm/ft	10816.000	11220.500
RAL	FB Start Far	294.887	usec	10816.000	11220.500
RAL	FB Start Near	178.832	usec	10816.000	11220.500
RAL	FB Start Radial	178.832	usec	10816.000	11220.500
RAL	FB Thresh Far	10.000	mv	10816.000	11220.500

RAL	FB Thresh Near	4.000	mv	10816.000	11220.500
RAL	FB Thresh Radial	4.000	mv	10816.000	11220.500
RAL	Fluid Travel Time	167.000	usec/ft	10816.000	11221.187

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES									
		ACAL	ANR	AR1	AR2	AR3	AR4	AR5	AR6		
1426XA	-16.750	AR7	AR8	CHV	FPR2	FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP				
		AFAR	SIG	TT5							
1426XA	-15.750										
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

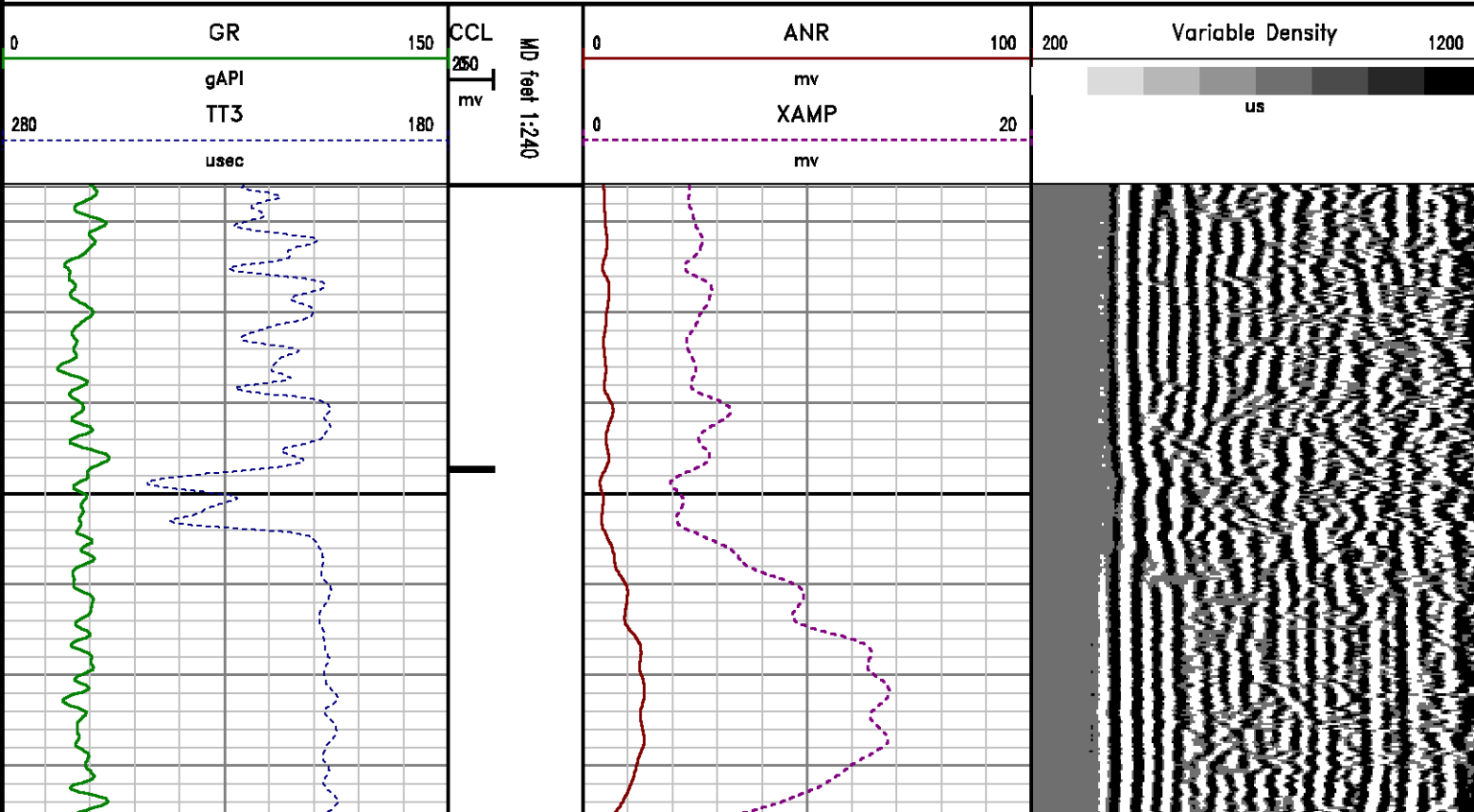
Well : PUCKETT GM 701-28-HN1

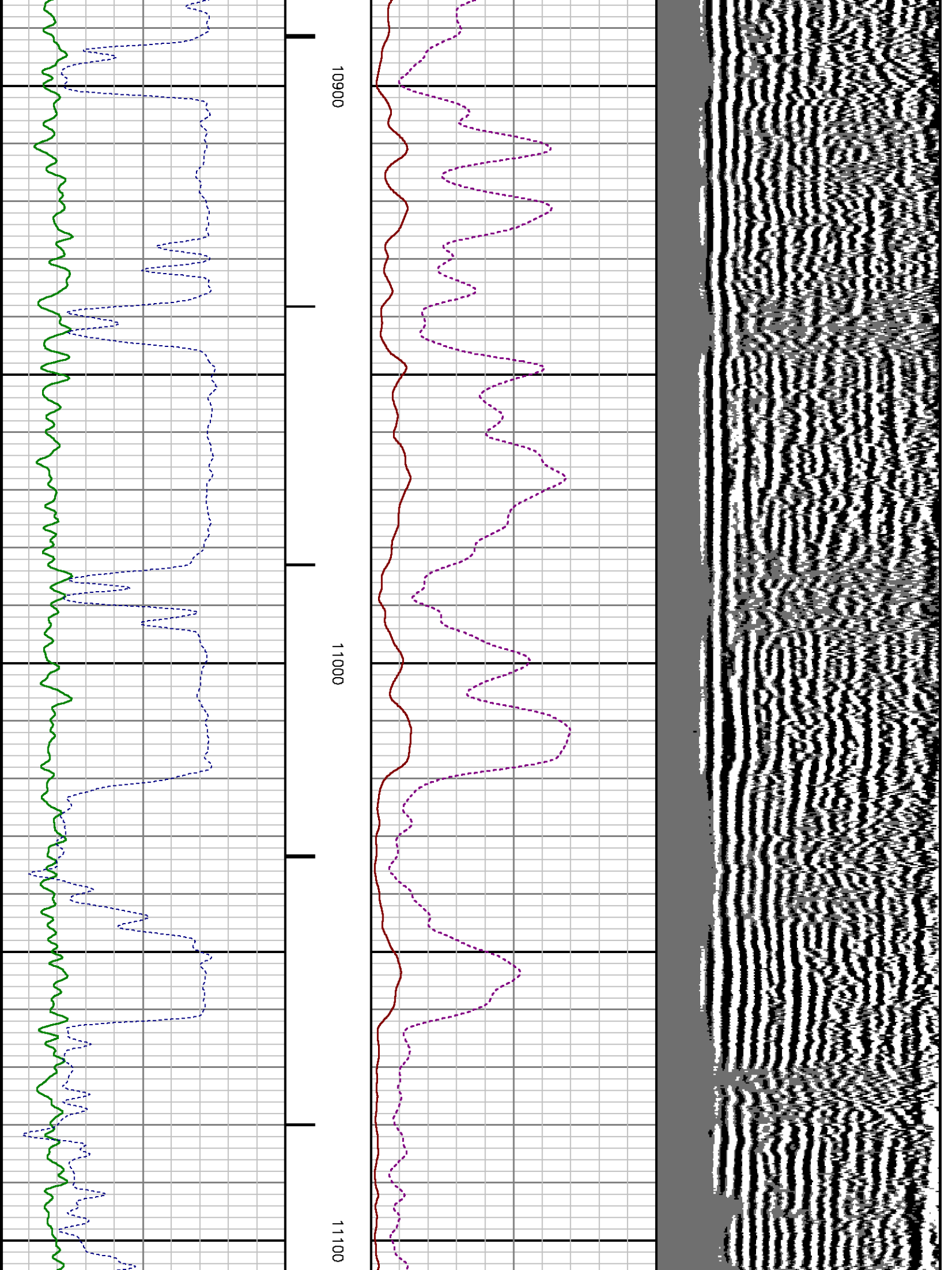
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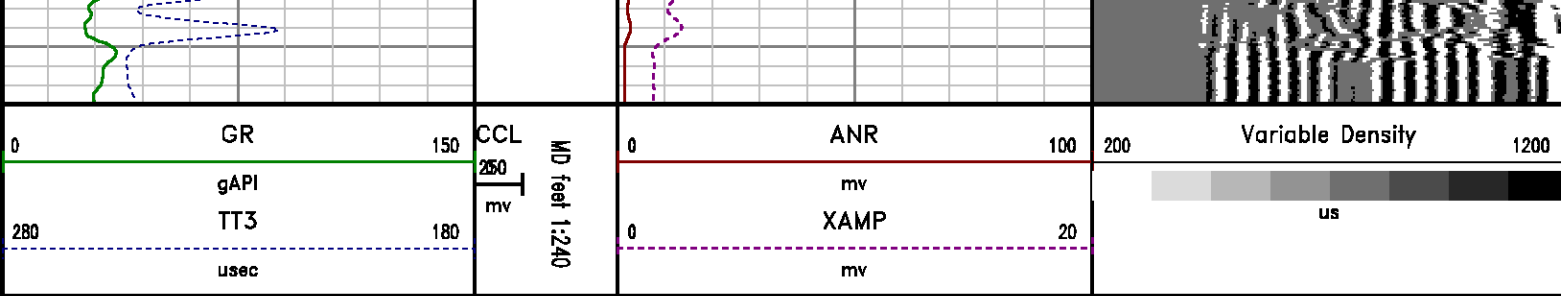
Mode : PlotMgr 5.4.504

Interval : 10816.00 - 11116.00 feet UP

Created : 1/3/2014 10:34:13 AM







# CALIBRATION SUMMARY

## RALSHP

Shop Calibration: C:\case\calver\RALSHP\49602\_shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jan 02 15:50:38 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: 02

Tool Delay [usec]  Tank OD  Tank Wt  Tank ID

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	219	216	30	166	25	0.277	100.00	0.17
3 Ft. Receiver	219	216	30	166	8	0.060	100.00	0.17
5 Ft. Receiver	327	325	30	255	25	0.468	150.00	0.18
Radial #1	219	216	30	166	7	-0.167	100.00	0.16
Radial #2	219	216	30	166	7	-0.125	100.00	0.16
Radial #3	219	216	30	166	7	-0.446	100.00	0.17
Radial #4	219	216	30	166	7	-0.337	100.00	0.17
Radial #5	219	216	30	166	7	0.142	100.00	0.17
Radial #6	219	216	30	166	7	-0.317	100.00	0.17
Radial #7	219	216	30	166	7	-0.042	100.00	0.16
Radial #8	219	216	30	166	7	0.113	100.00	0.16

## RALFLD

Well Site Calibration: C:\case\calver\RALFLD\496J2 fld.cal

### WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jan 02 15:53:14 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: J2

Tool Delay [usec]  Casing OD  Casing Wt  Casing ID   
In lbm/ft 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="0.032"/>	<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="211"/>	<input type="text" value="30"/>	<input type="text" value="0.983"/>			
5 Ft. Receiver	<input type="text" value="328"/>	<input type="text" value="30"/>	<input type="text" value="0.507"/>			
Radial #1	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.701"/>			
Radial #2	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.654"/>			
Radial #3	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.747"/>			
Radial #4	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.755"/>			
Radial #5	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.868"/>			
Radial #6	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.886"/>			
Radial #7	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.749"/>			
Radial #8	<input type="text" value="211"/>	<input type="text" value="30"/>	<input type="text" value="0.677"/>			

# GAMMA RAY

Calibration File:

### CALIBRATION SUMMARY

DATE/TIME PERFORMED:		<input type="text" value="Thu Dec 19 13:07:05 2013"/>		TOOL SERIES:	<input type="text" value="2459XA"/>	ASSET:	<input type="text" value="121"/>	SEQ:	<input type="text" value="D7"/>
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]			
<input type="text" value="S2K WA612"/>	<input type="text" value="72.18"/>	<input type="text" value="324.27"/>	<input type="text" value="0.734"/>	<input type="text" value="52.97"/>	<input type="text" value="237.97"/>	<input type="text" value="185.00"/>			

Verification File:

### PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED:		<input type="text" value="Thu Dec 19 13:08:40 2013"/>		TOOL SERIES:	<input type="text" value="2459XA"/>	ASSET:	<input type="text" value="121"/>	SEQ:	<input type="text" value="D7"/>
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]			
<input type="text" value="S2K WA612"/>	<input type="text" value="78.40"/>	<input type="text" value="322.22"/>	<input type="text" value="0.734"/>	<input type="text" value="57.54"/>	<input type="text" value="236.47"/>	<input type="text" value="178.93"/>			

# TOOL DIAGRAM

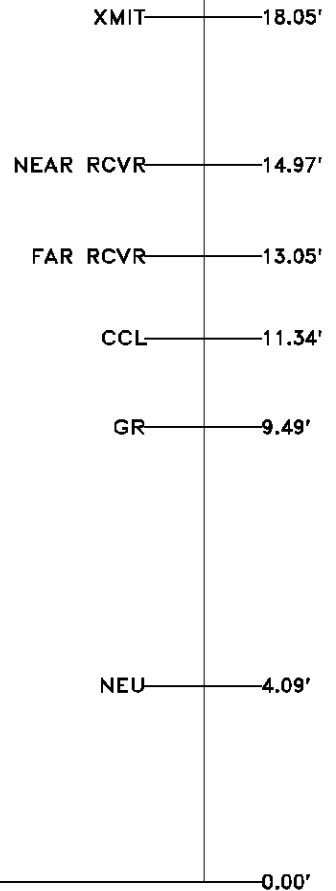
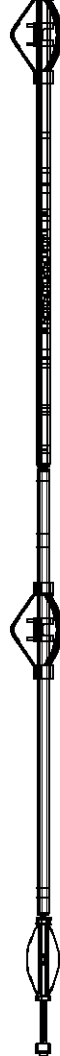


24.23'

<b>PROBE 2 3/4 DUAL RECEIVER RADII</b>	
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

<b>Probe GR/CCL/NEU</b>	
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

<b>CENTRALIZER</b>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



Total Length: 24.23'  
 Total Weight: Not Available  
 Max Diameter: 0' 3.12"



Baker Atlas



<b>Company</b>	WPX ENERGY	
<b>Well</b>	PUCKETT GM 701-28-HN1	
<b>Field</b>	GRAND VALLEY	
<b>County</b>	GARFIELD	<b>State</b> CO

<b>File No:</b>	CH81516
<b>API No:</b>	05045221540000

<b>Location</b>	
SHL:	1314' FNL & 1035' FWL
BHL:	535' FNL & 629' FWL
<b>SEC</b>	28 <b>TWP</b> 6S <b>RGE</b> 95W

<b>Elevations</b>	
KB	5629 ft
DF	
GL	5604 ft

28 6S 95W
GM 11-28 PAD
AZTEC 1000