



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH084822	Company Well Field County	WPX ENERGY PA 323-6 PARACHUTE GARFIELD	State CO
API No: 0804522240000	Location SHL: 736' FSL & 760' FWL BHL: 2078' FSL & 1808' FWL SEC 6 TWP 7S RGE 9SW		
6 7S 9SW PA 14-6 PAD MABORS 574	Other Services RPM		Elevations KB 5179 ft DF GL 5153 ft
Permanent Datum Log Measured From Drill Measured From	GL KB KB	Elevation 26 ft Above P. D.	

Date	16/APR/14	
Run	ONE	
Service Order	US625365	
Depth Driller	6966 ft	
Depth Logger	6922 ft	
Bottom Logged Interval	6912 ft	
Top Logged Interval	17 ft	
Time Started	7:30	
Time Finished	11:30	
Operator Rig Time	4 HOURS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
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	212 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JCT.
Recorded By	NEWELL	
Witnessed By	CHRIS TILLER	

- FOLD HERE

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

Borehole Record		
Bit Size	From	To
13.5 In	0 ft	1449 ft
8.75 In	1449 ft	6972 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In			0 ft	1449 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	6972 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 wellhead on this well is 9' above GL, so the top CCL mark is at 17'.
The amount of linear shift is 14 feet
Logged with 0 psi on well.

BHT = 212 °F  
SJ = 3436'-3459'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10417456	CENTRALIZED

*PRIMARY PRESENTATION*  
*0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	26.781	6924.250
RAL	Amp Gate Start Near	195.000	usec	26.781	6924.250
RAL	Amp Gate Start Radial	195.000	usec	26.781	6924.250
RAL	Amp Gate Width Far	25.000	usec	26.781	6924.250
RAL	Amp Gate Width Near	25.000	usec	26.781	6924.250
RAL	Amp Gate Width Radial	25.000	usec	26.781	6924.250
RAL	casing od	4.500	inches	26.781	6924.250
RAL	casing wt	11.600	lbm/ft	26.781	6924.250
RAL	FB Start Far	291.900	usec	26.781	6924.250
RAL	FB Start Near	175.391	usec	26.781	6924.250
RAL	FB Start Radial	175.391	usec	26.781	6924.250
RAL	FB Thresh Far	10.000	mv	26.781	6924.250
RAL	FB Thresh Near	4.000	mv	26.781	6924.250
RAL	FB Thresh Radial	4.000	mv	26.781	6924.250
RAL	Fluid Travel Time	200.000	usec/ft	26.781	6924.250

DEPTH OFFSETS  
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	15.750	AD1	AD2	AD3	AD4	AD5	AD6

1426XA	-16.750	ALAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
2459XA	-11.340	FPR3	FPR5	TT3	TTR1	TTR2	TTR3
2459XA	-9.490	TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
2459XA	-4.090	AFAR	SIG	TT5			
		CCL					
		GR					
		NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

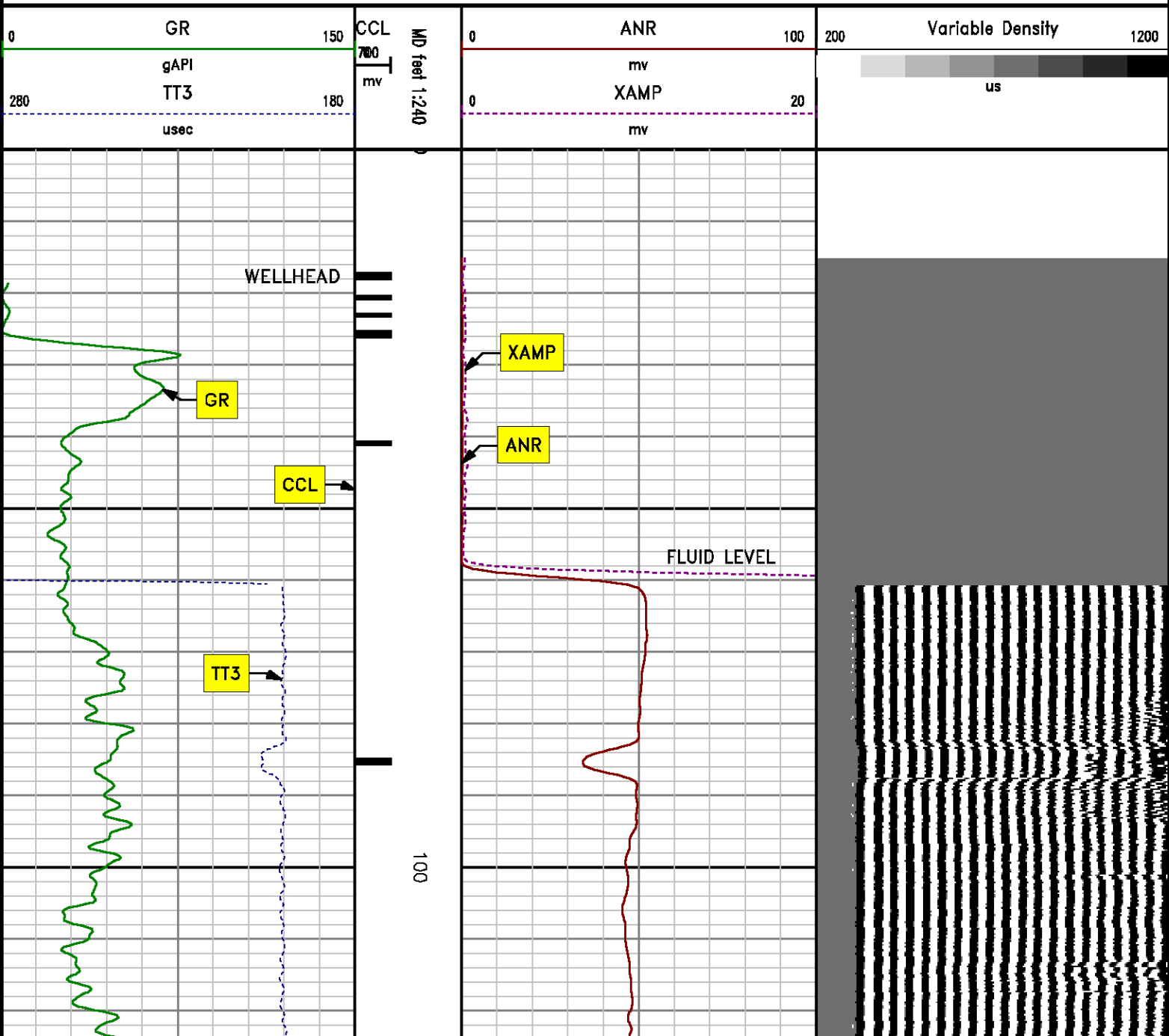
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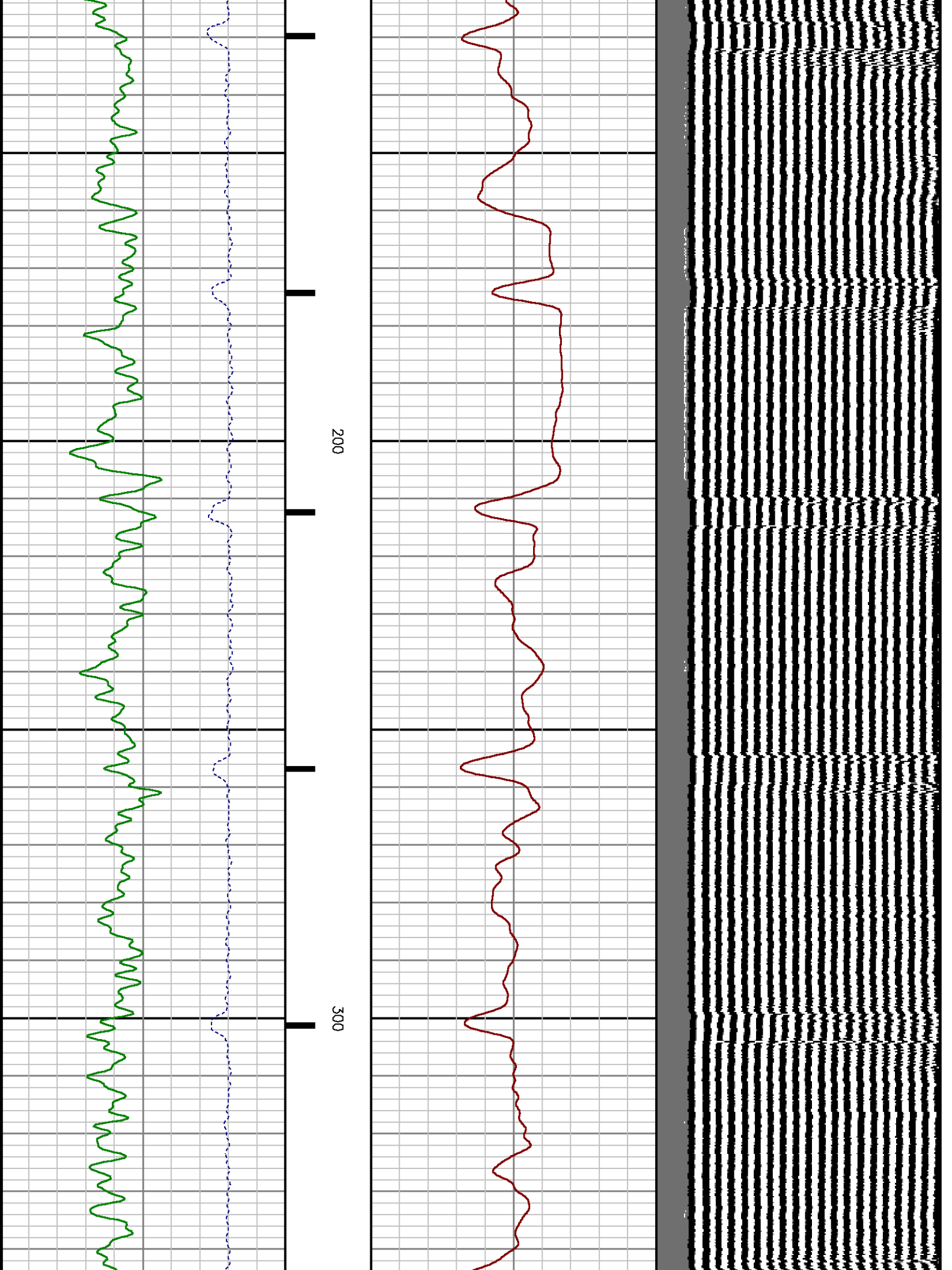
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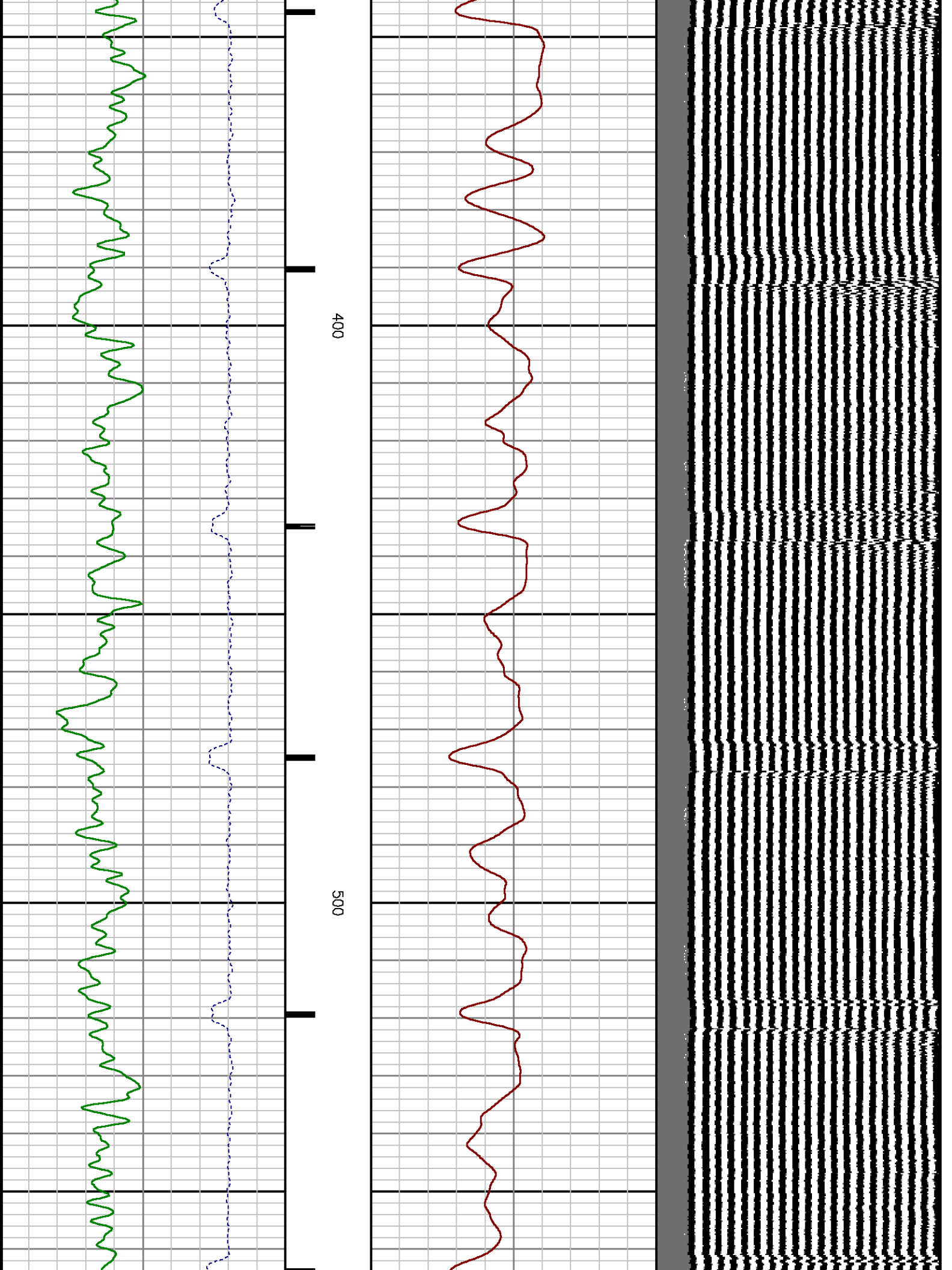
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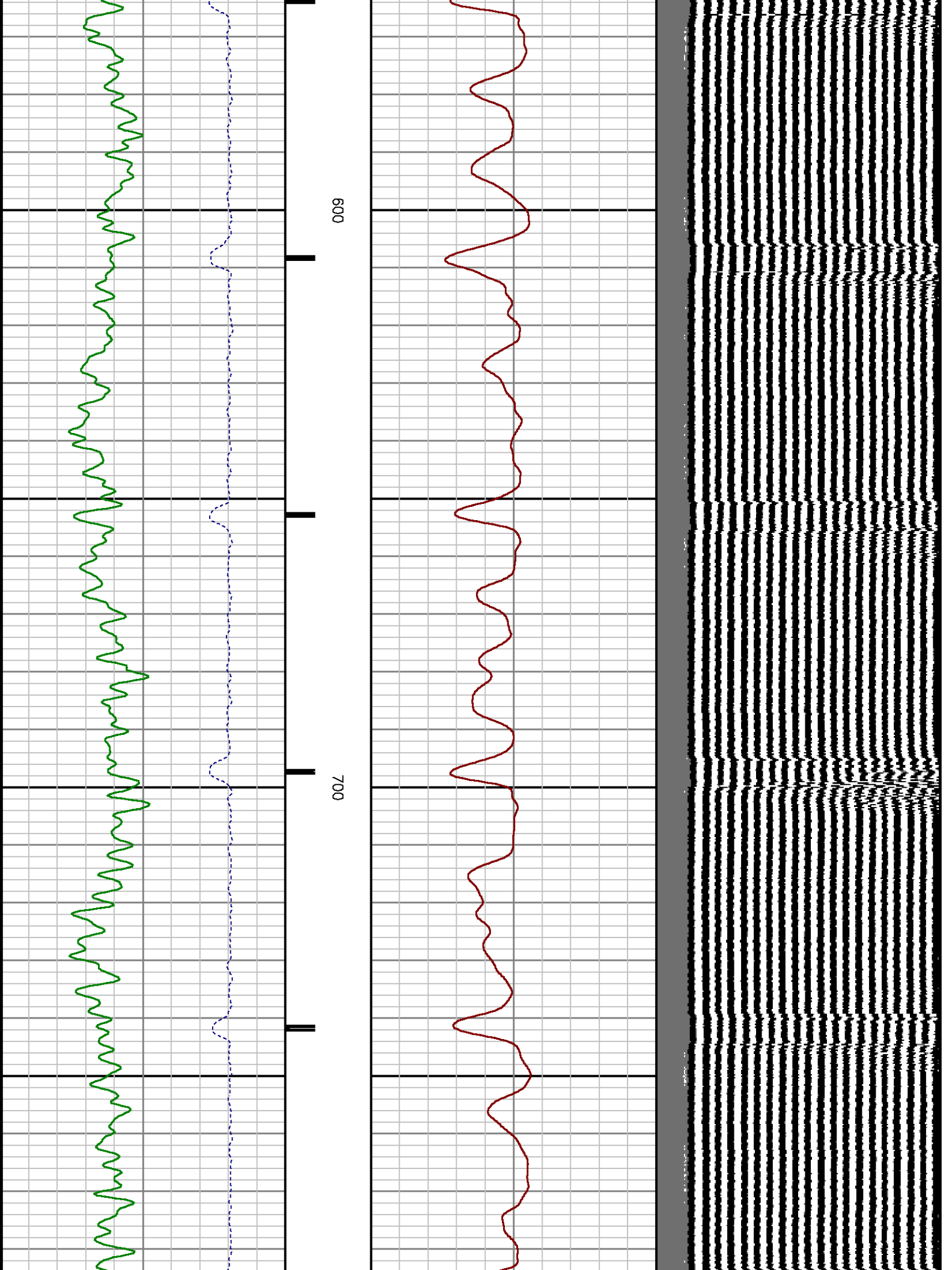
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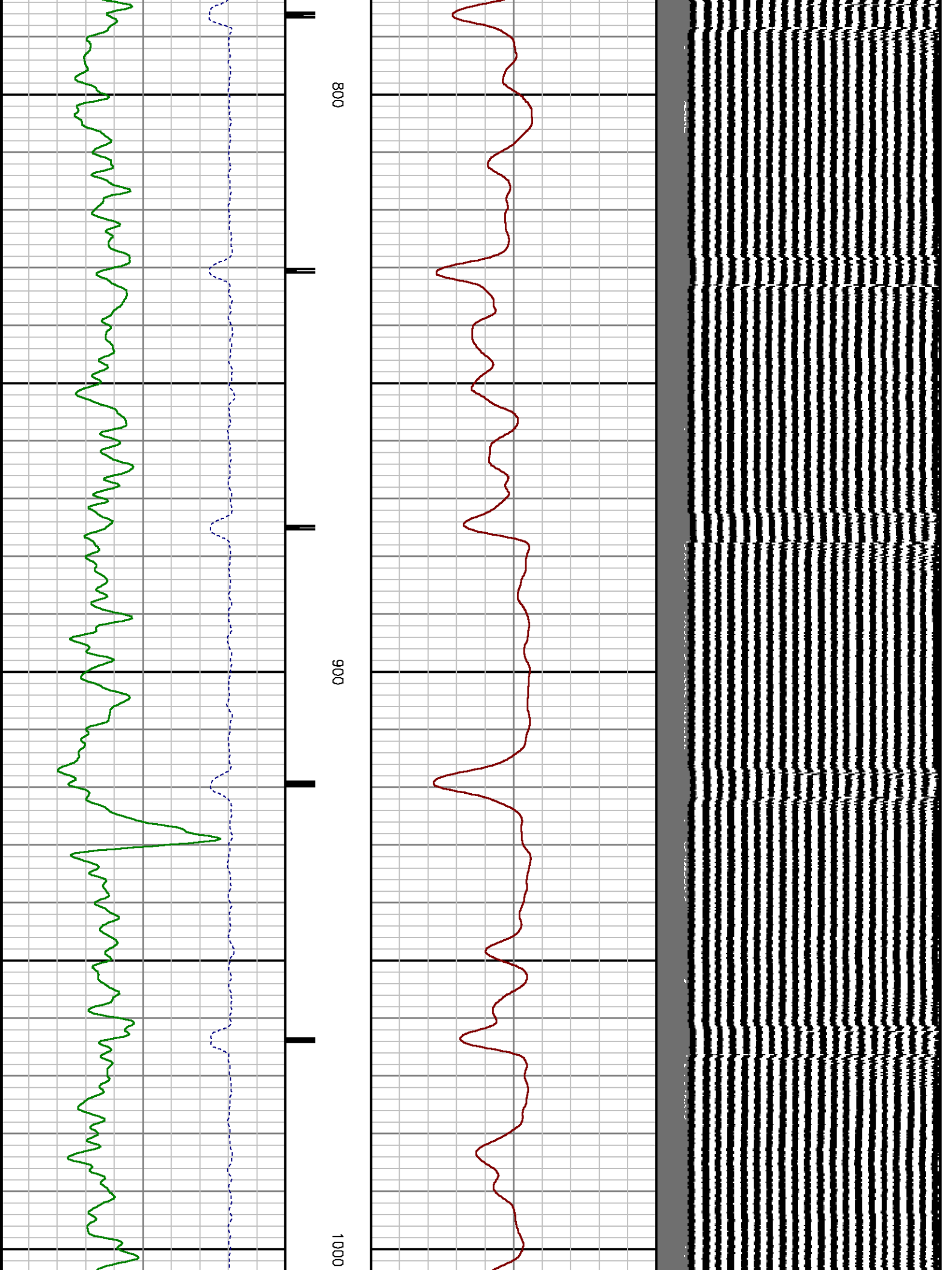
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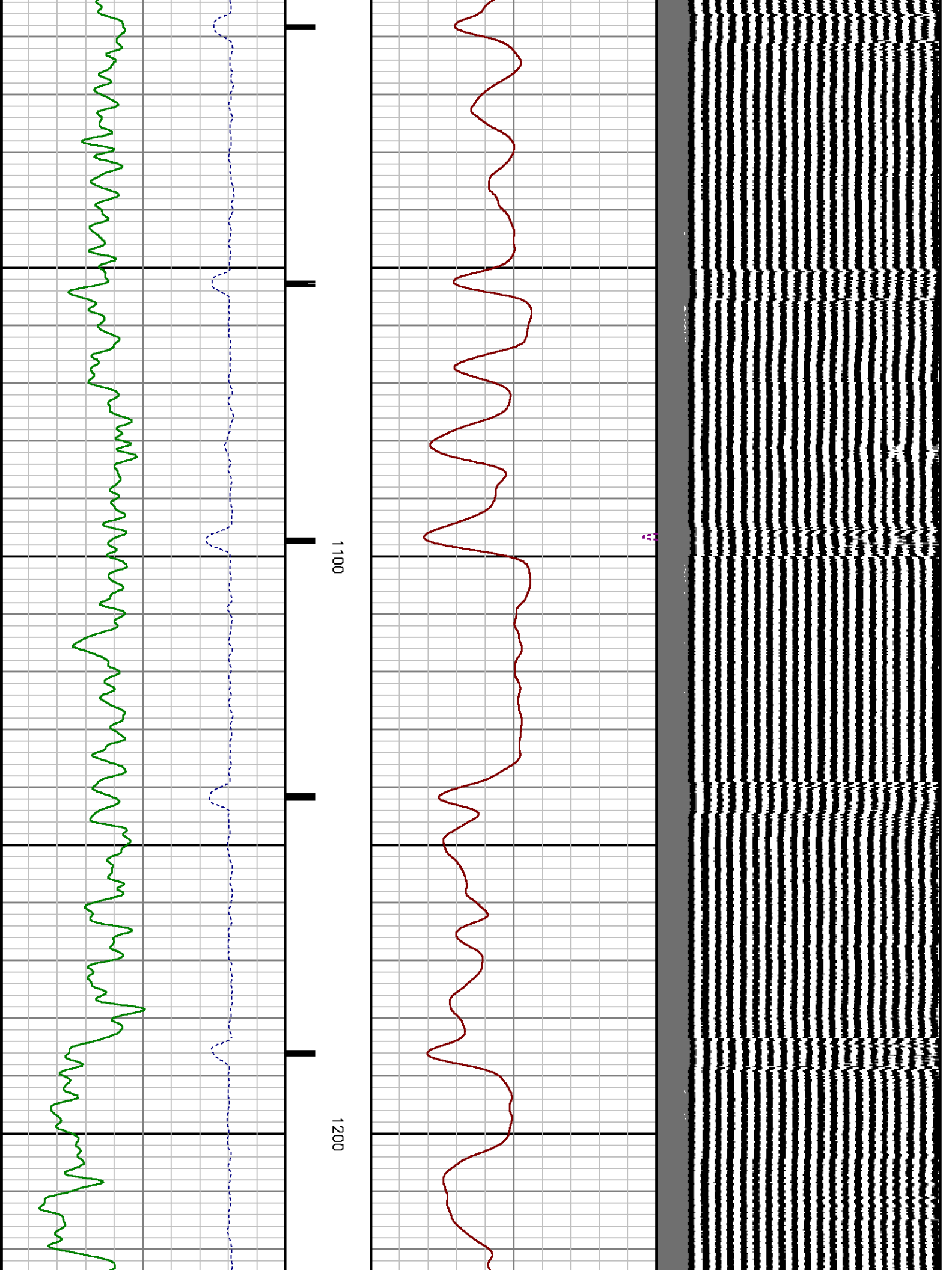




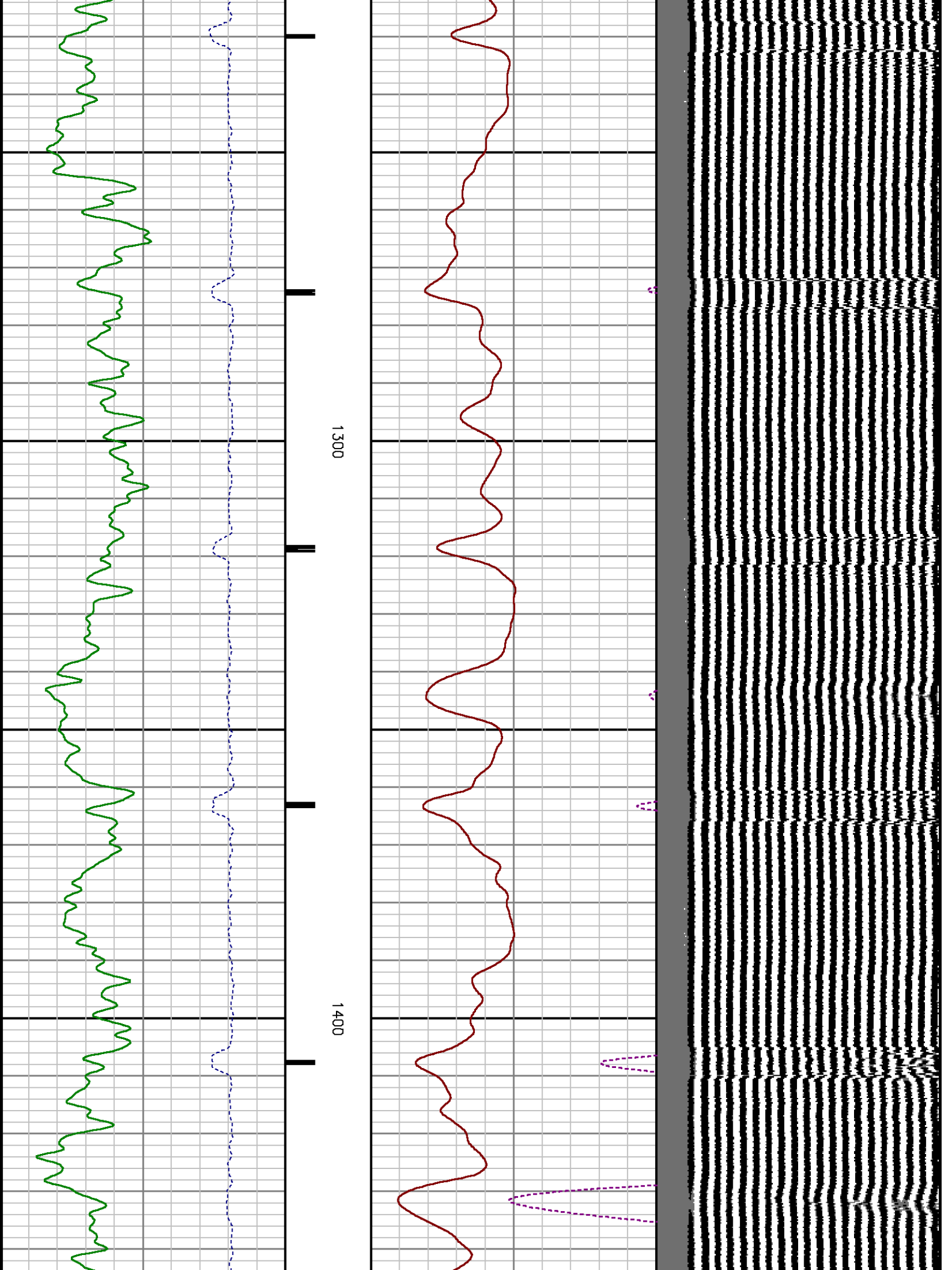


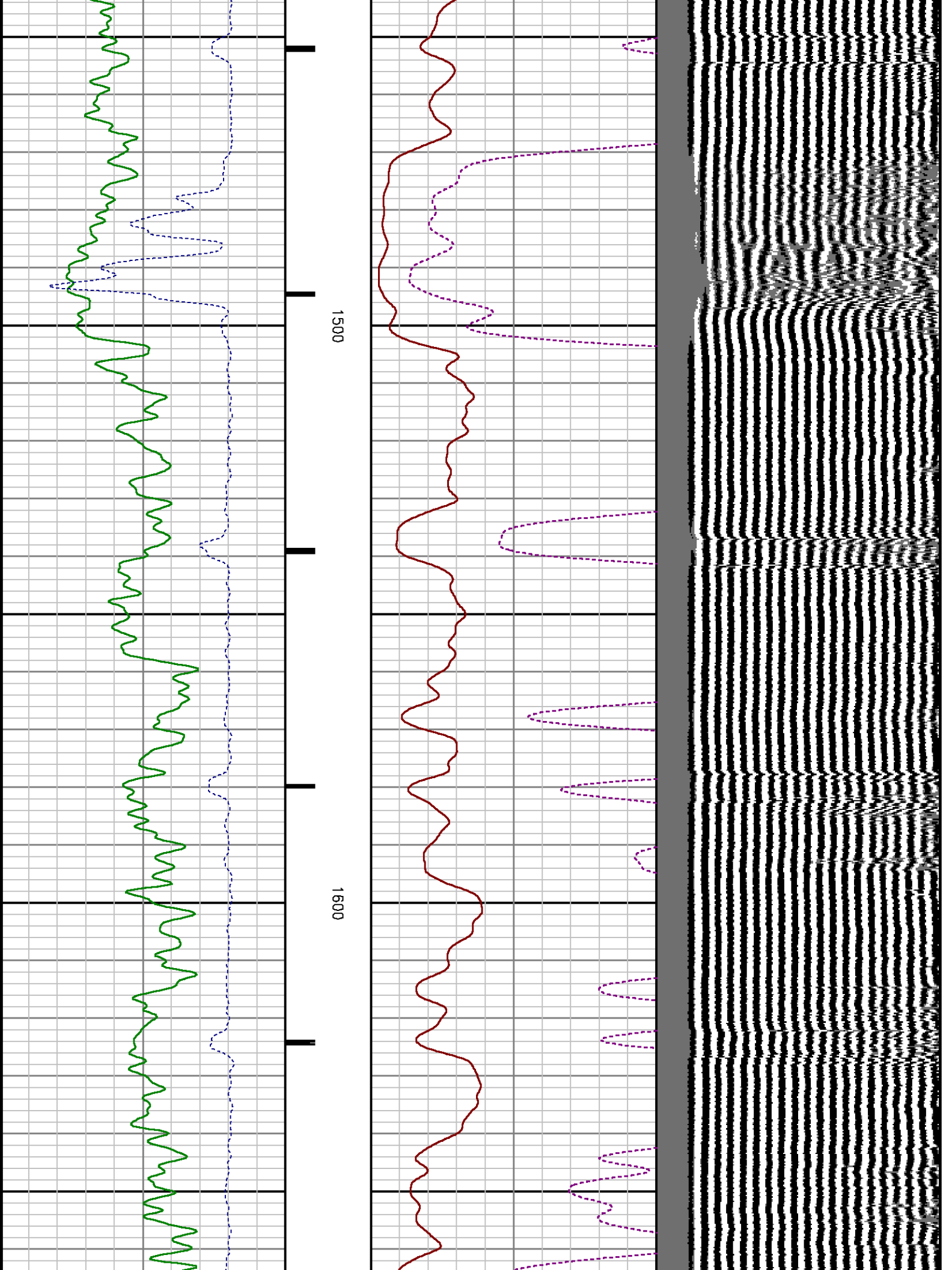


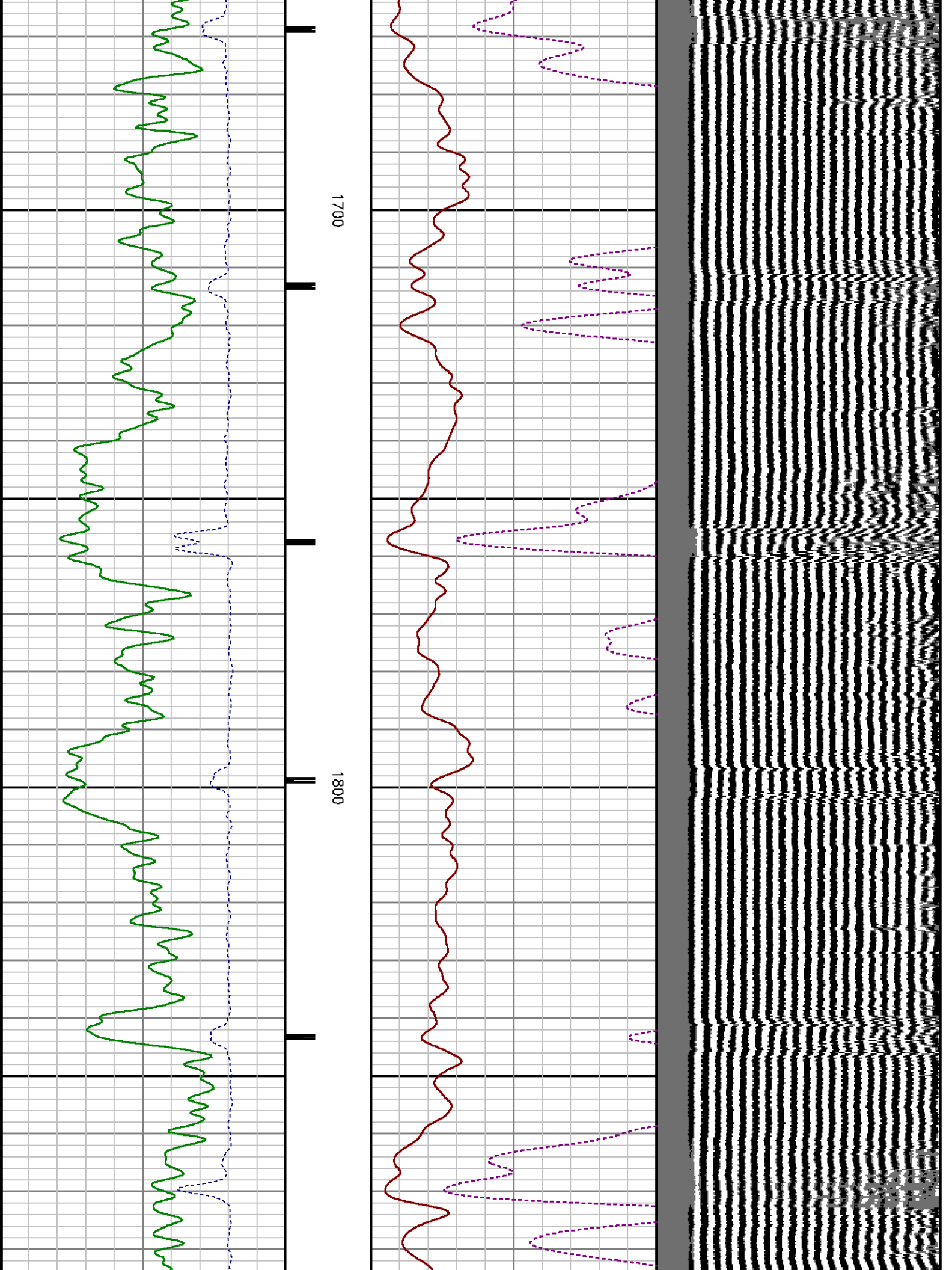


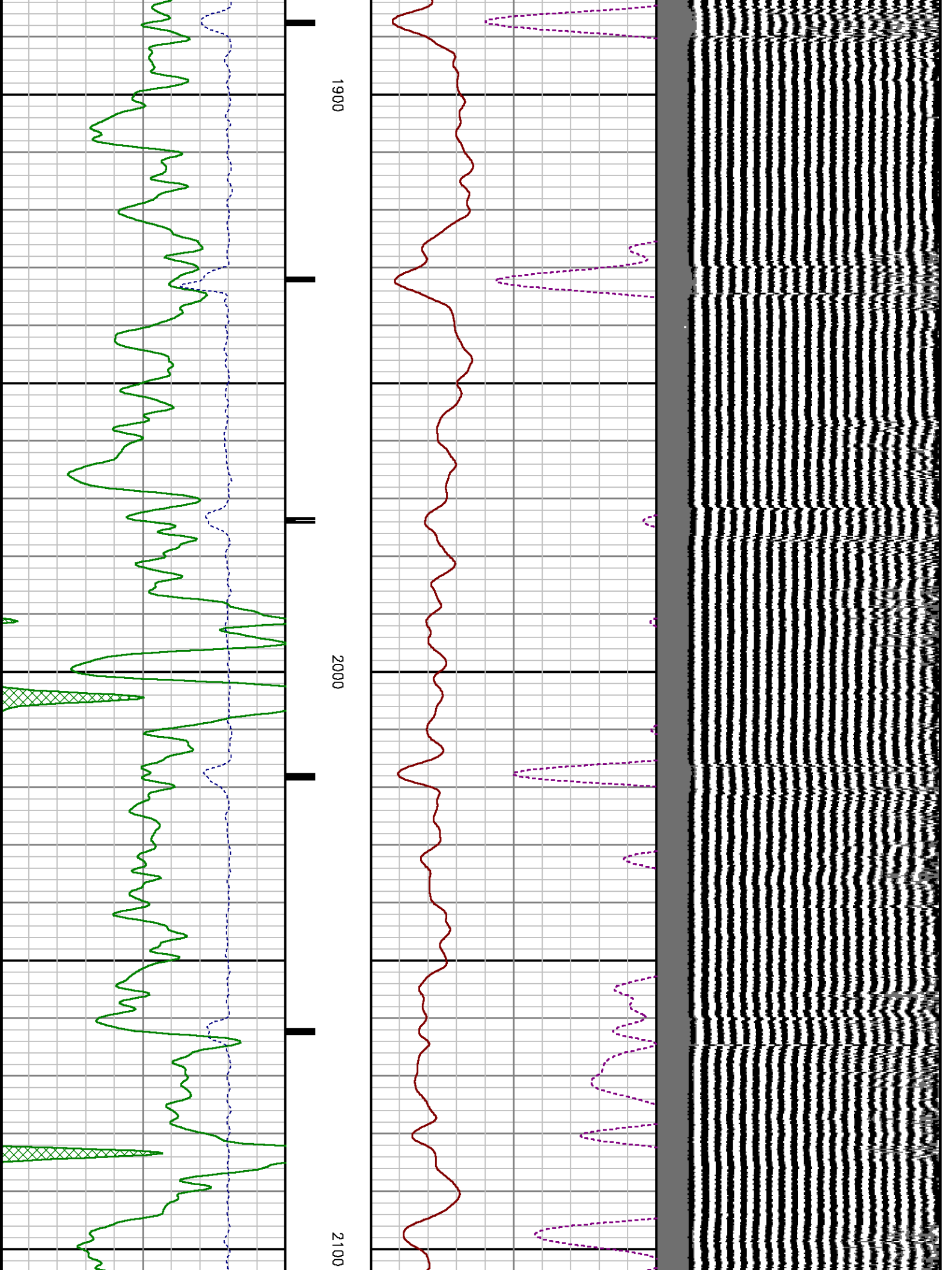


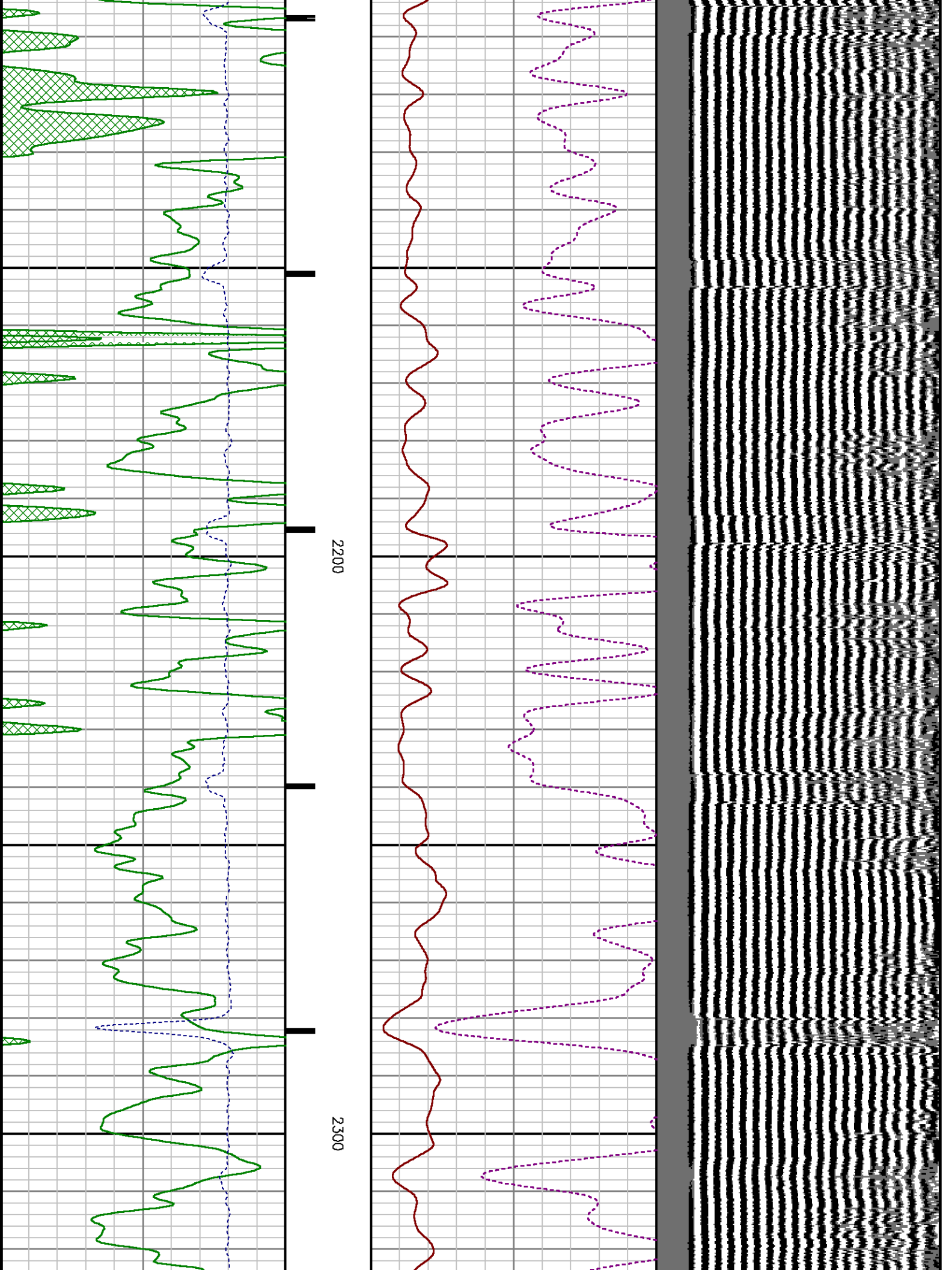




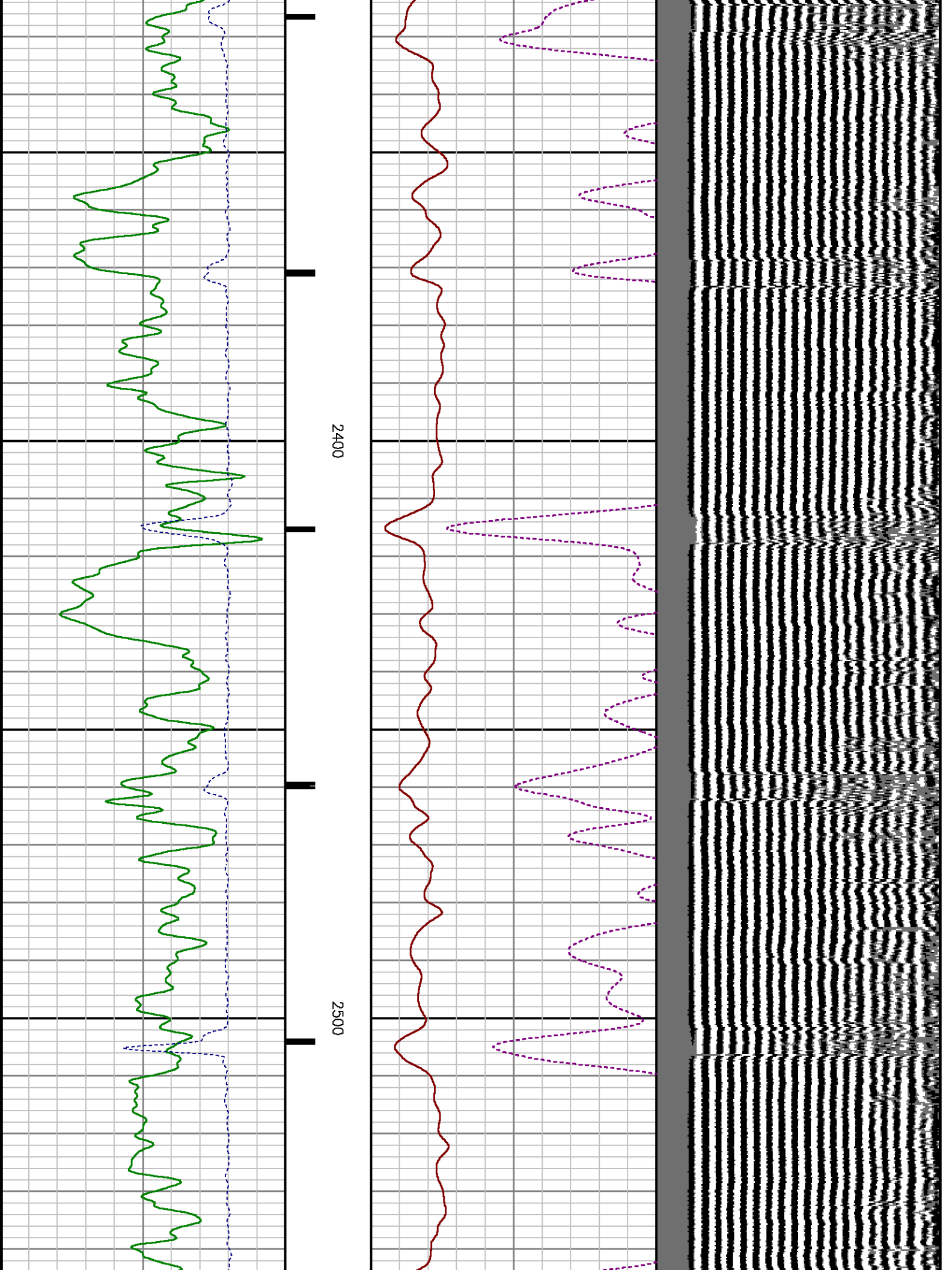


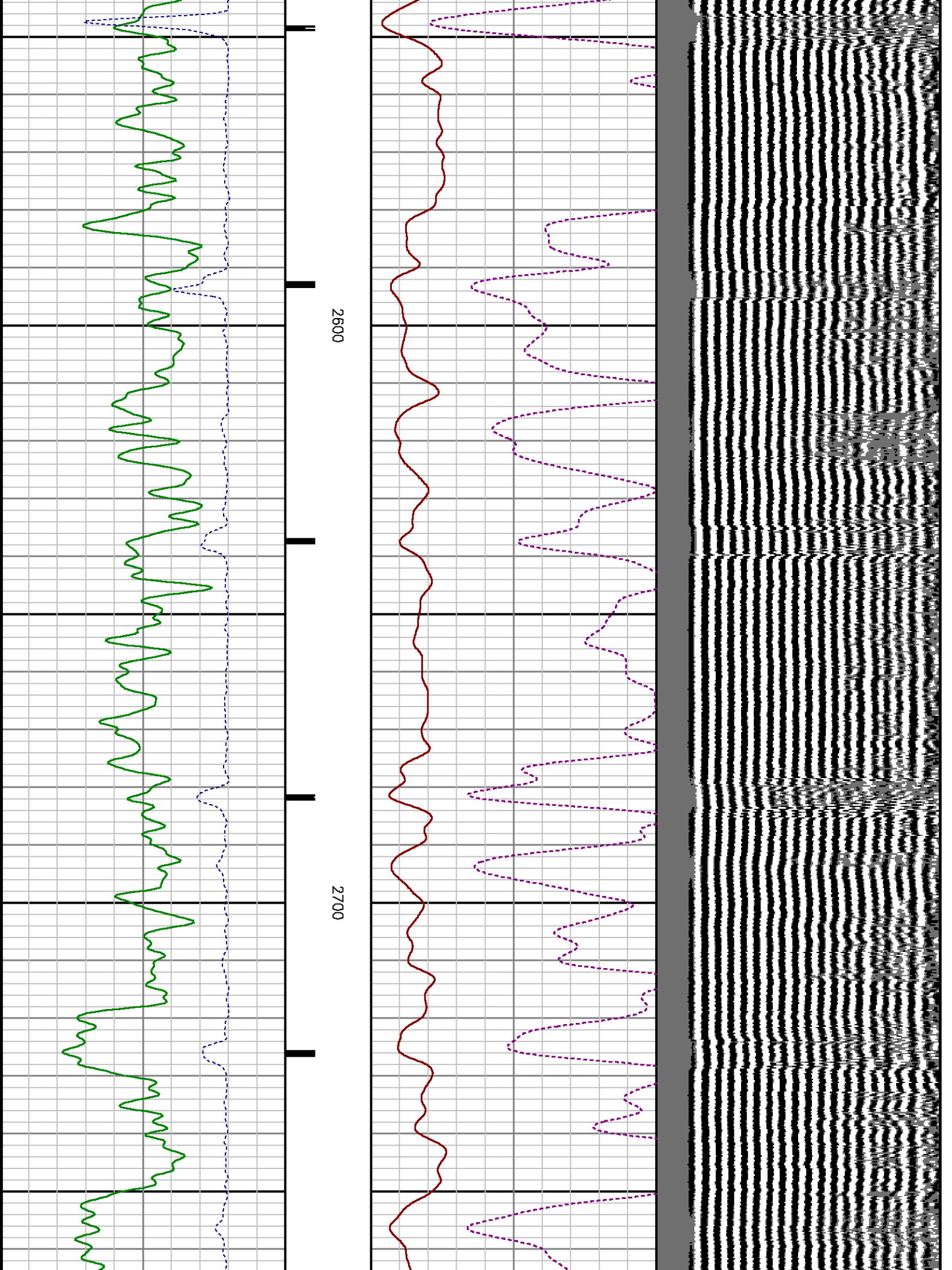


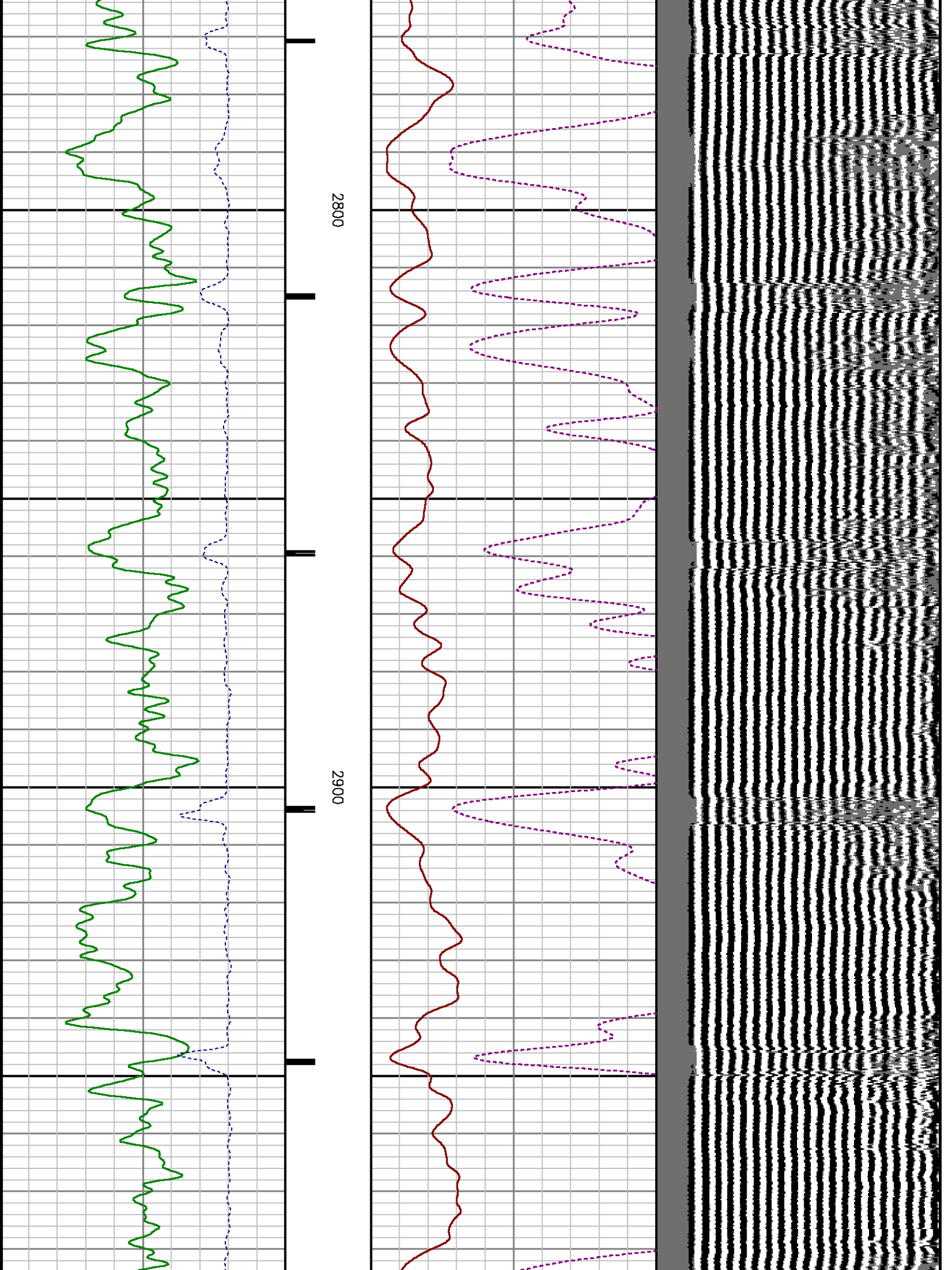




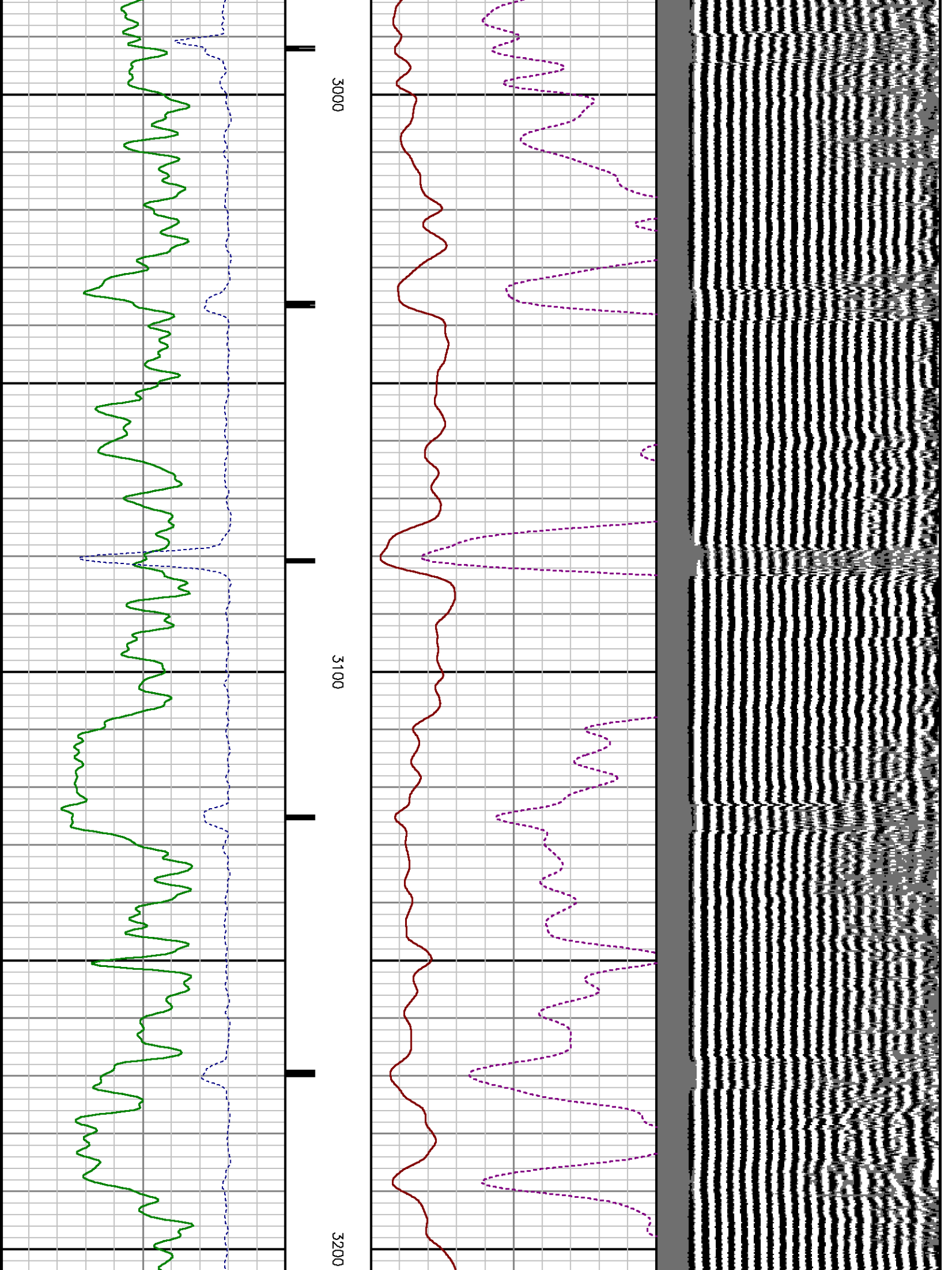


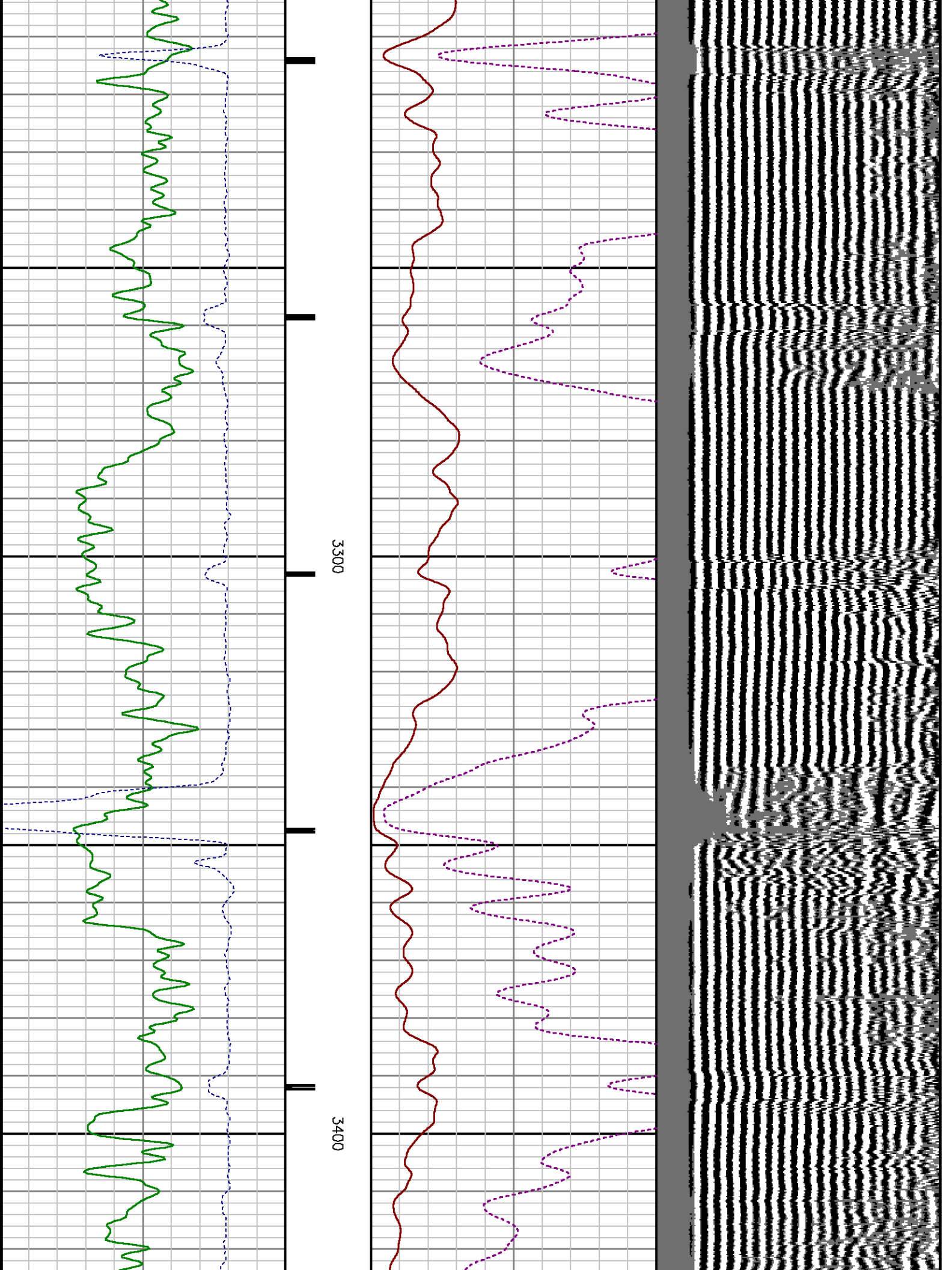


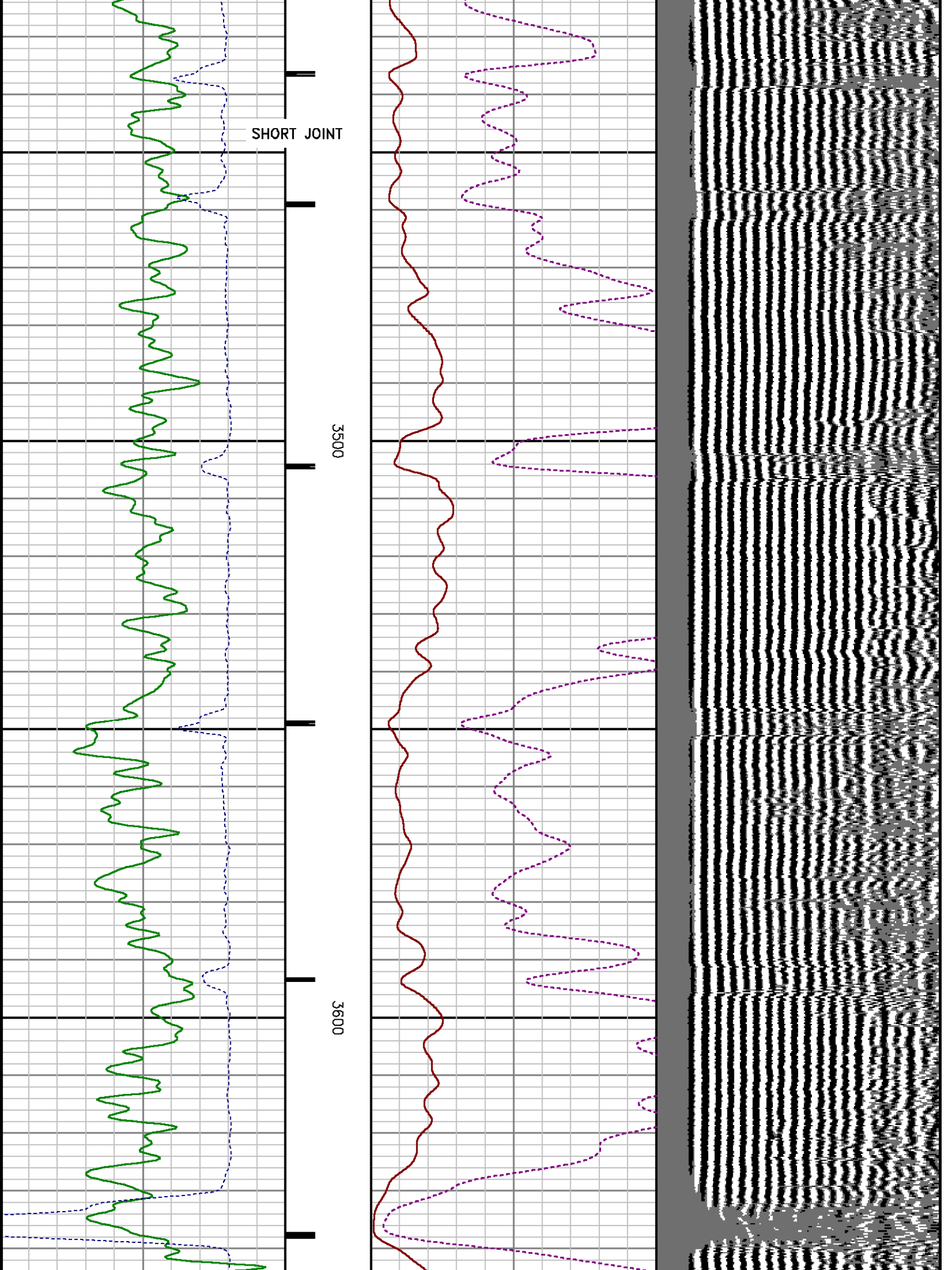


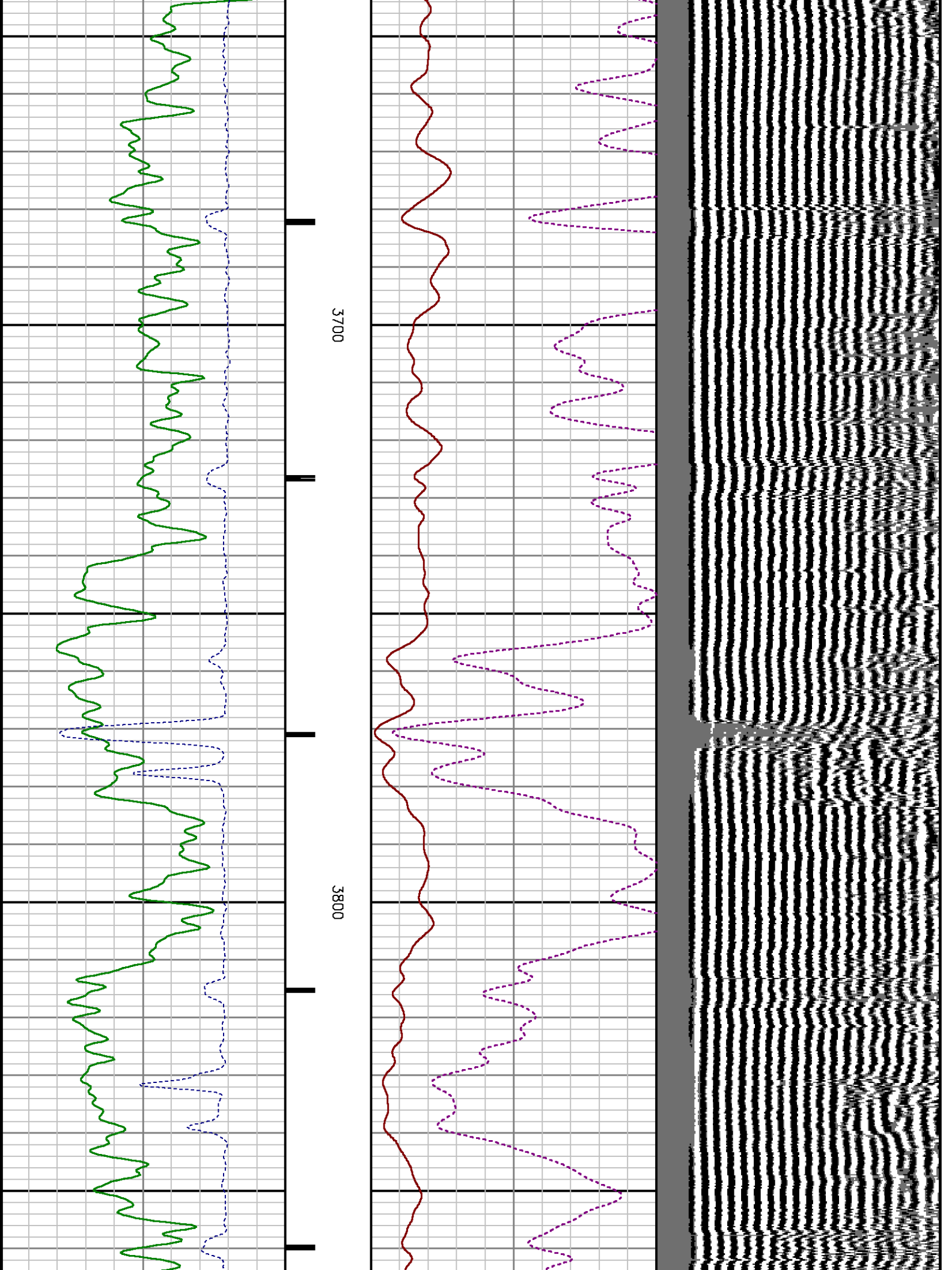




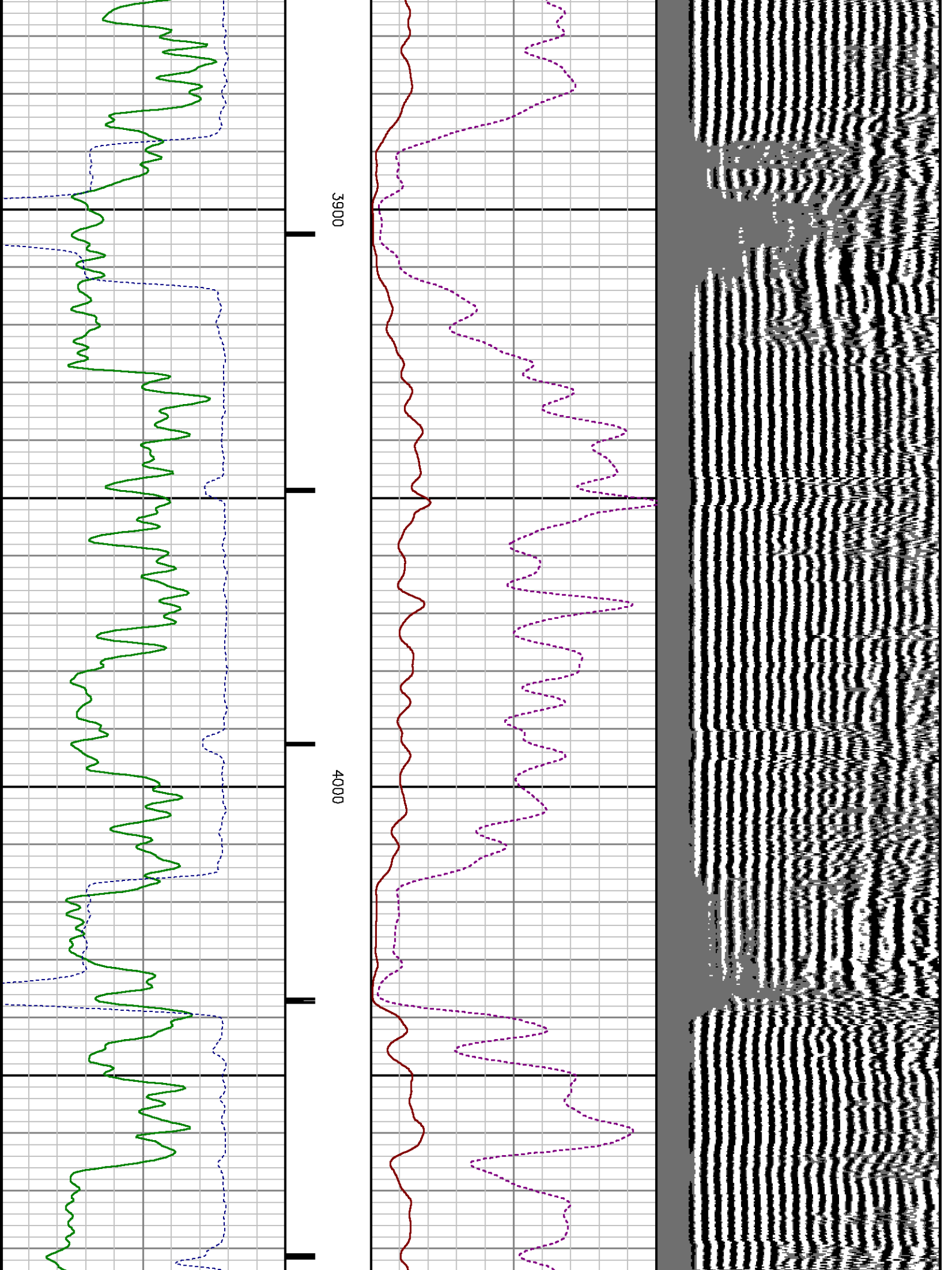


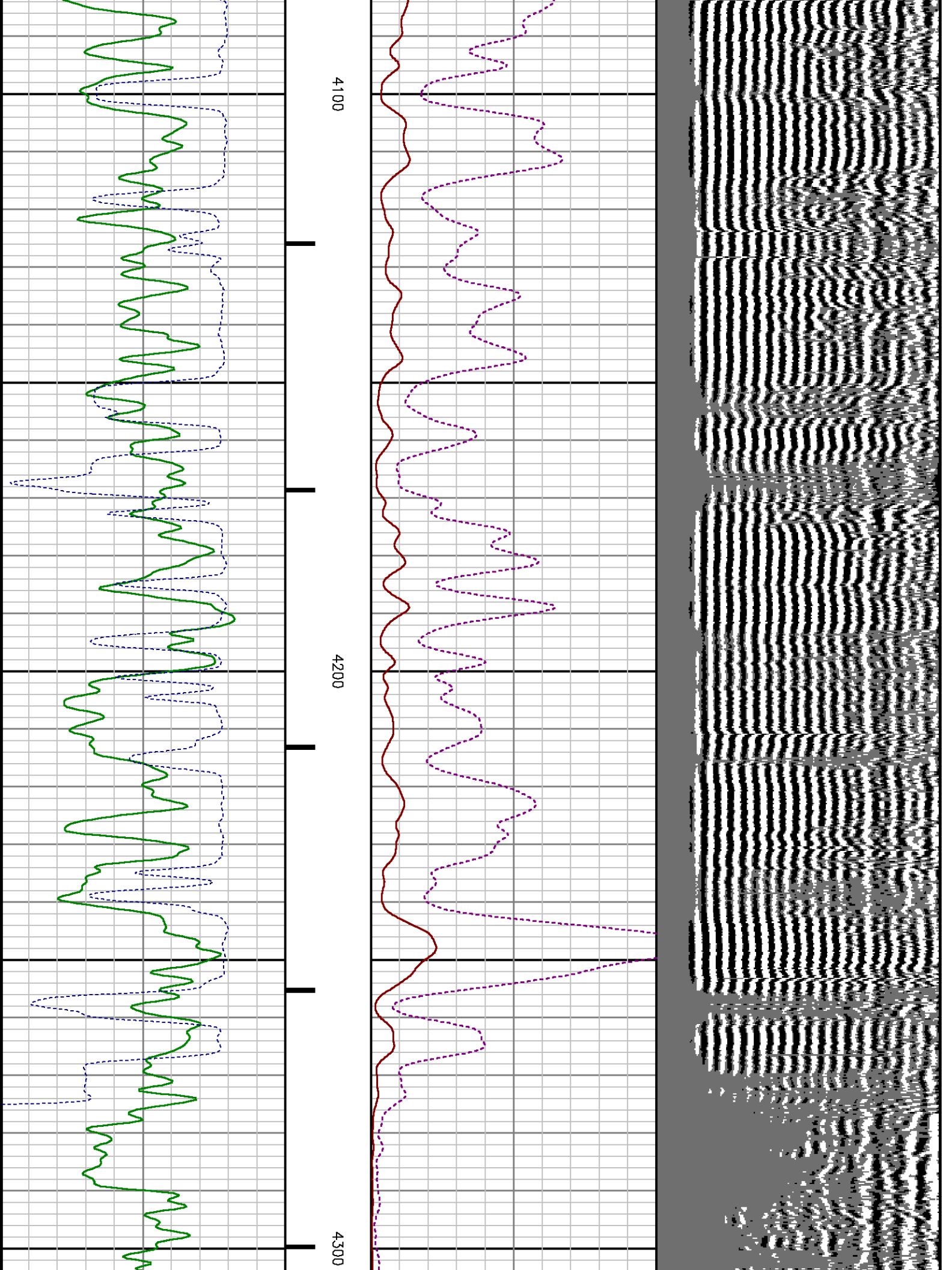


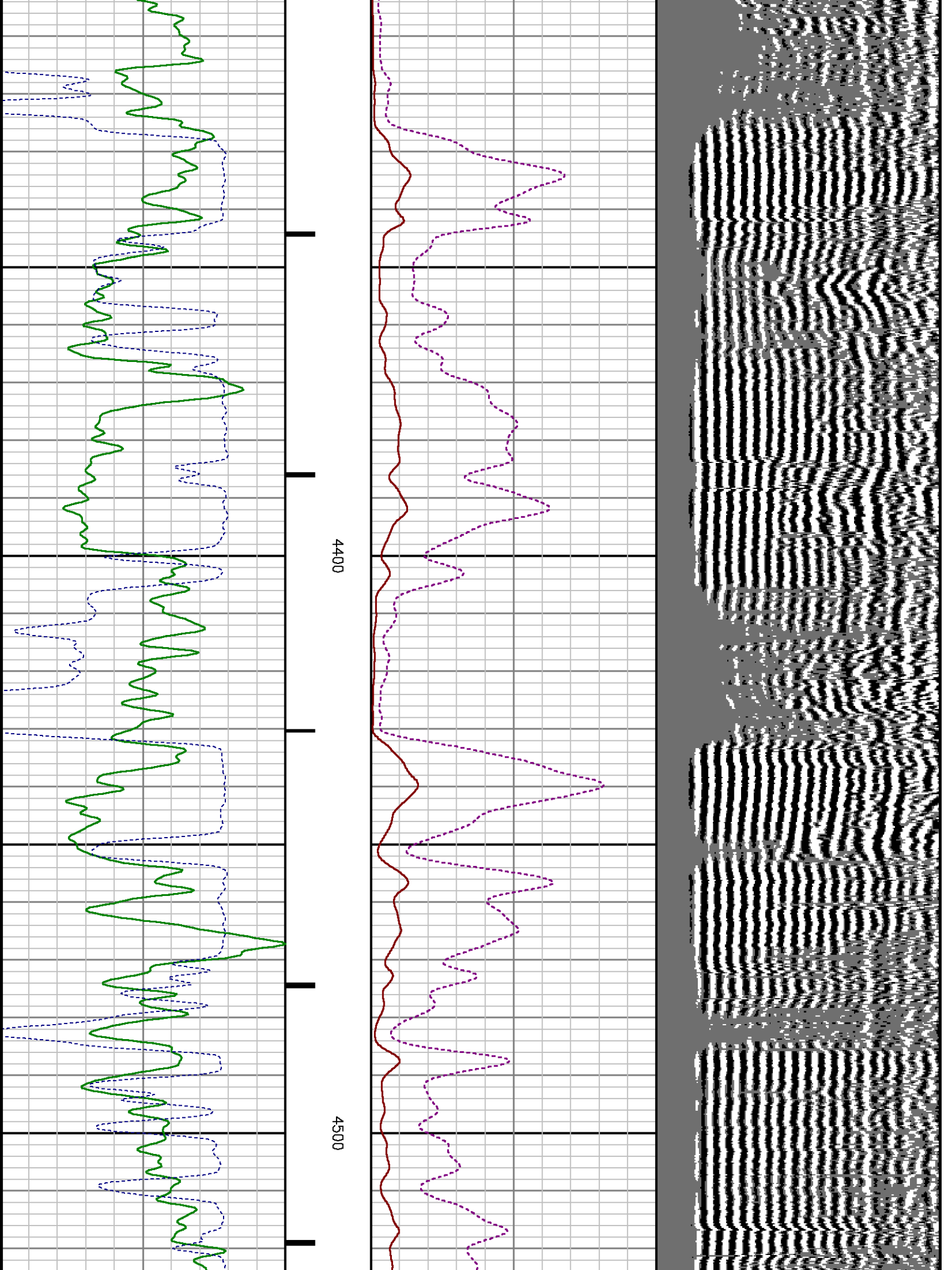


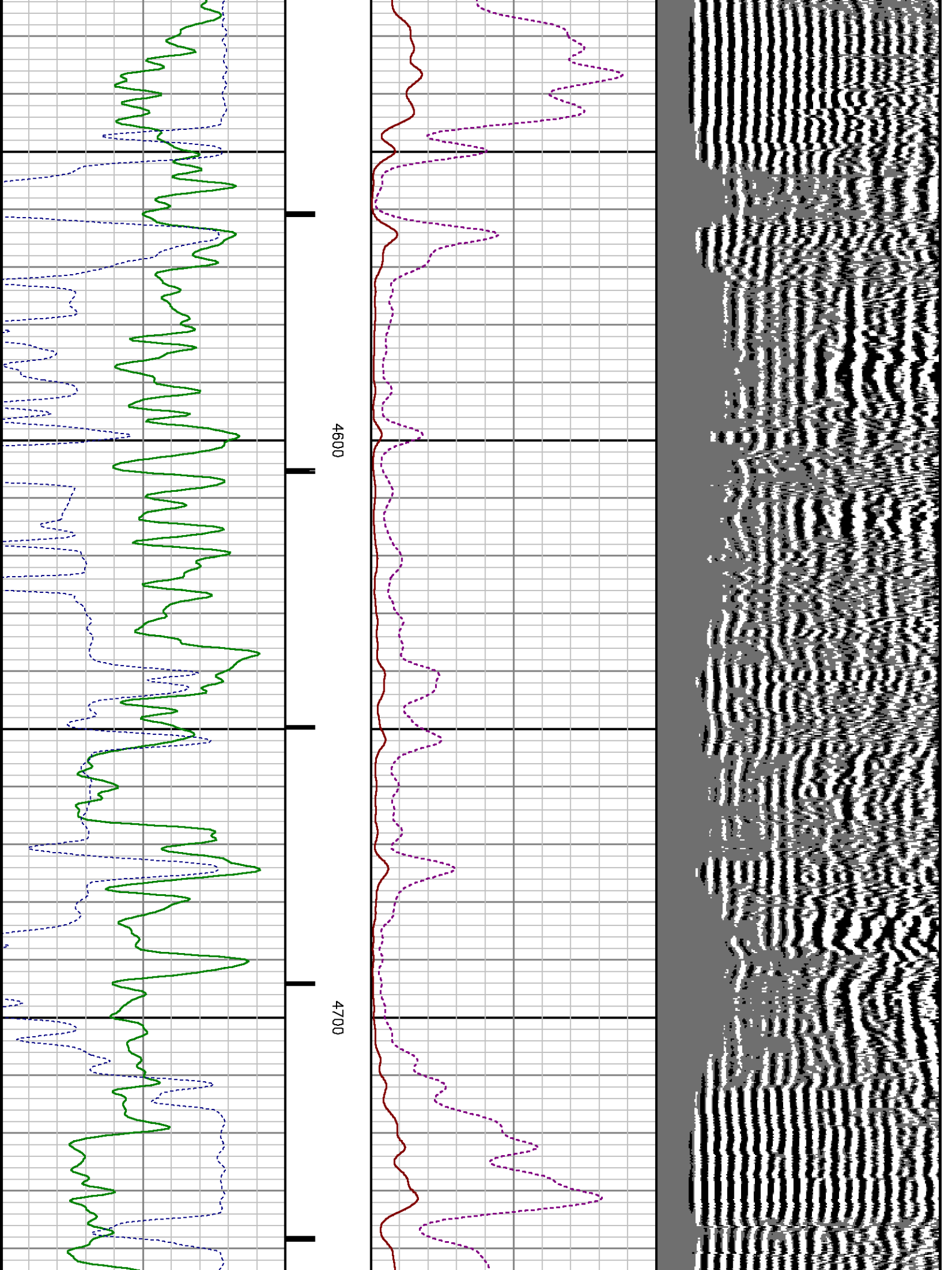




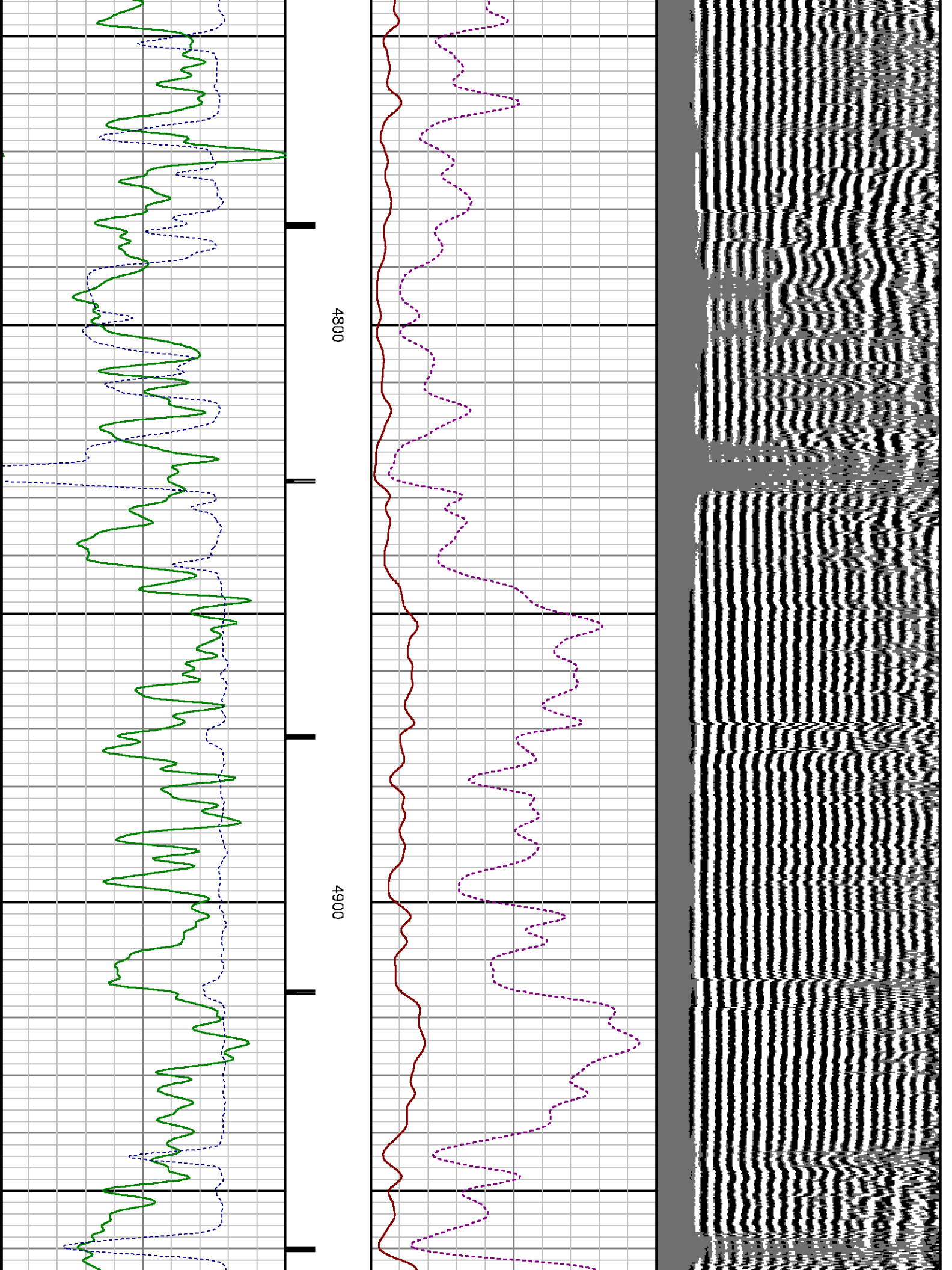


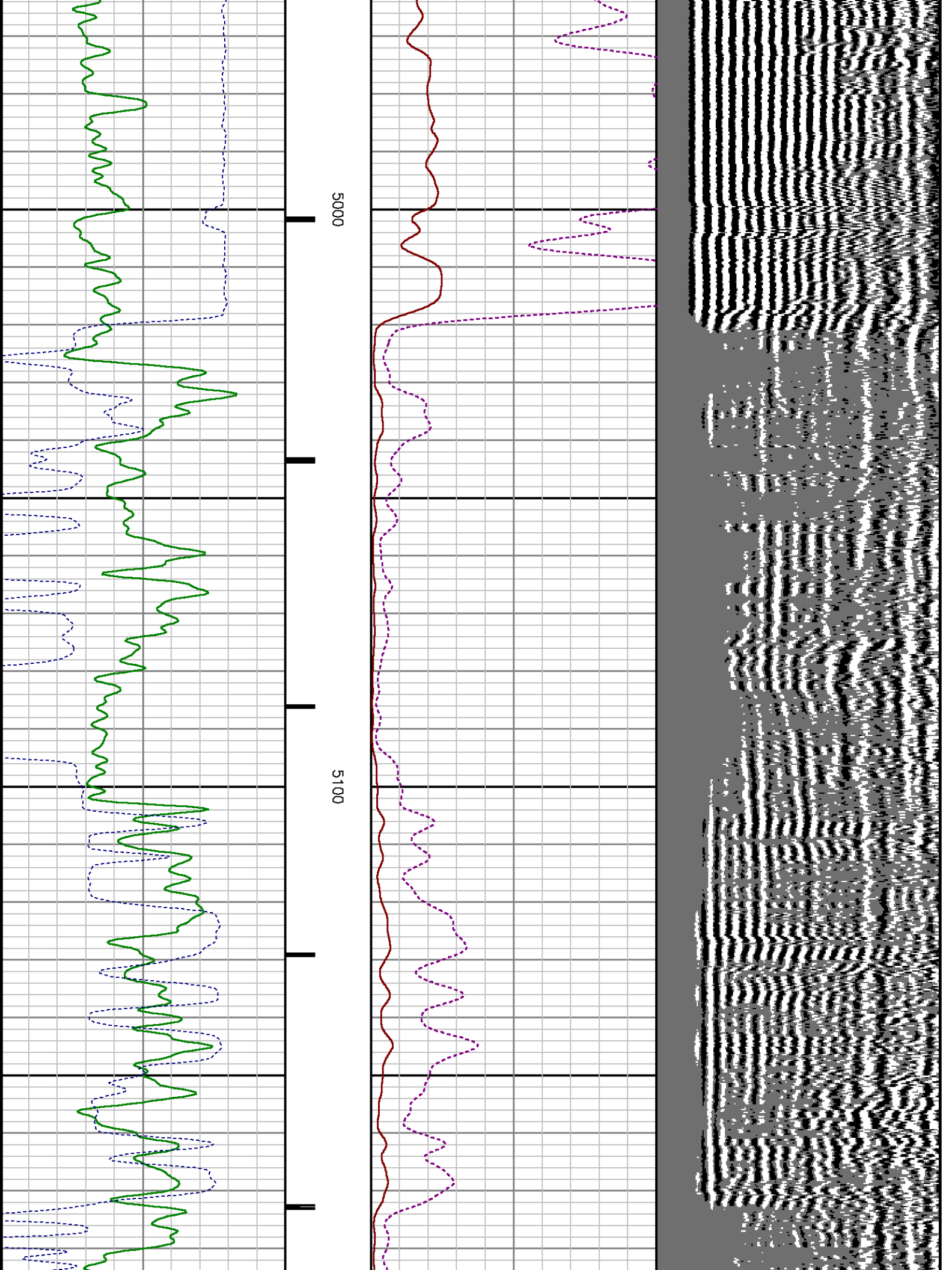


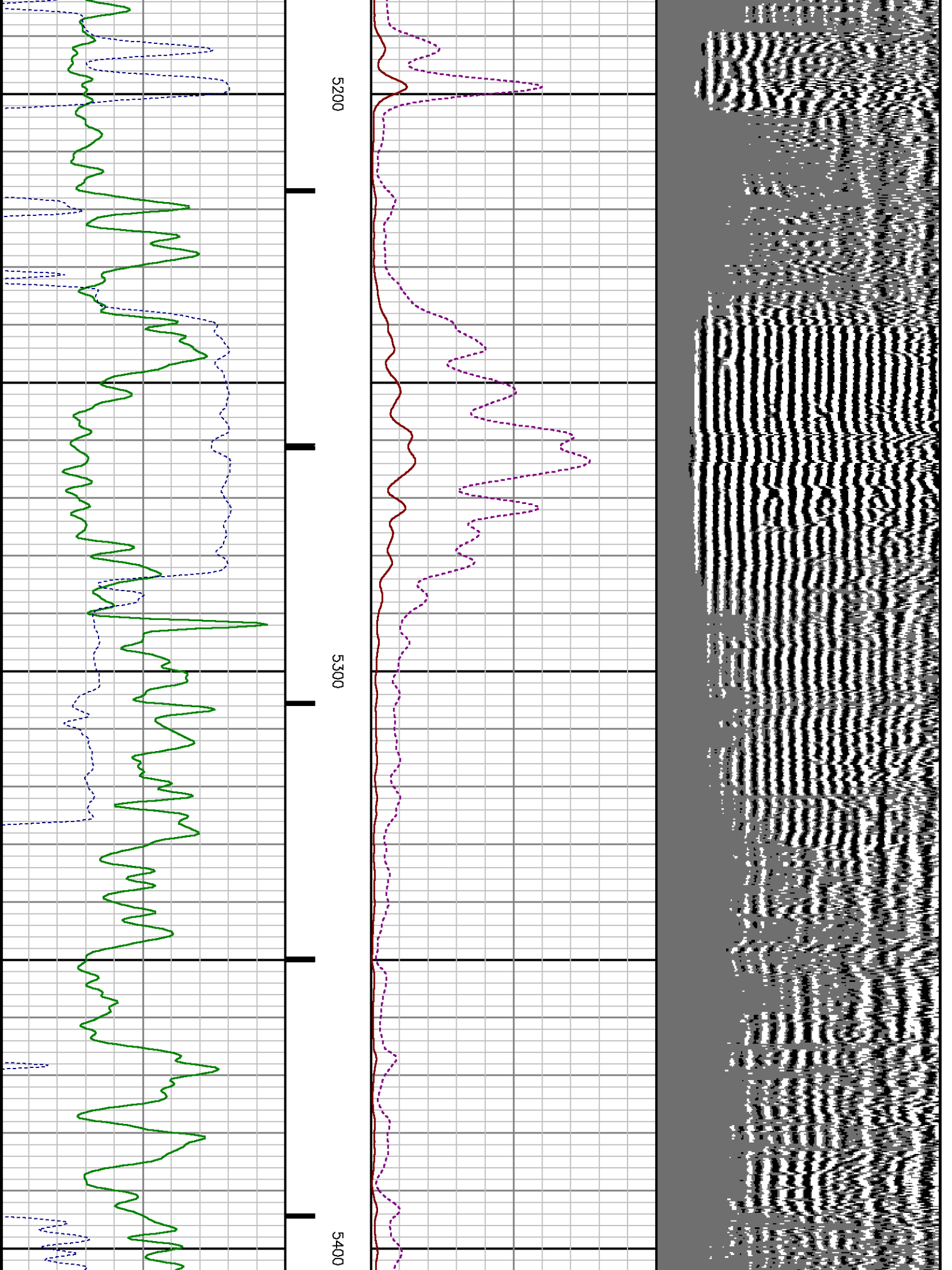


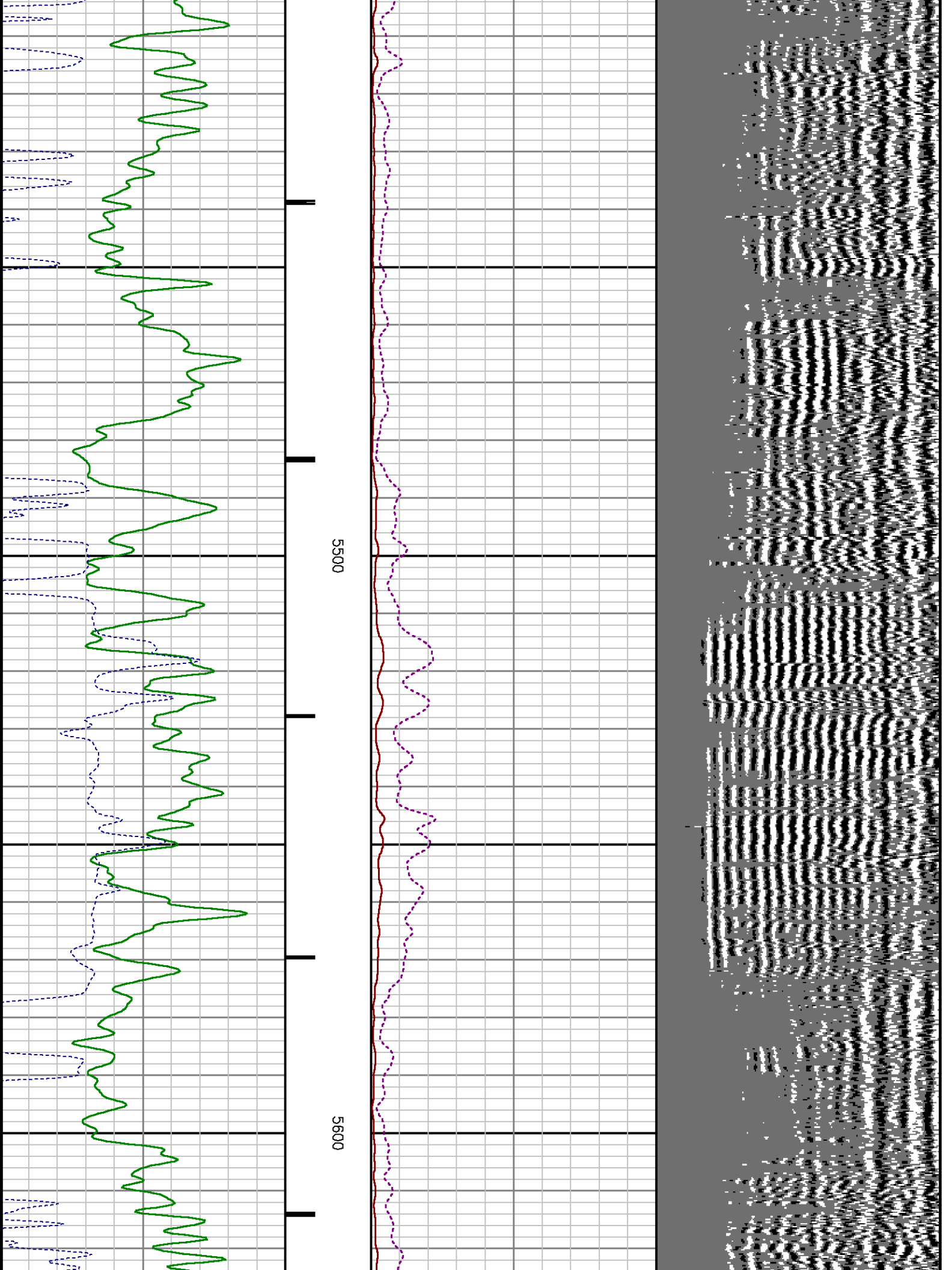


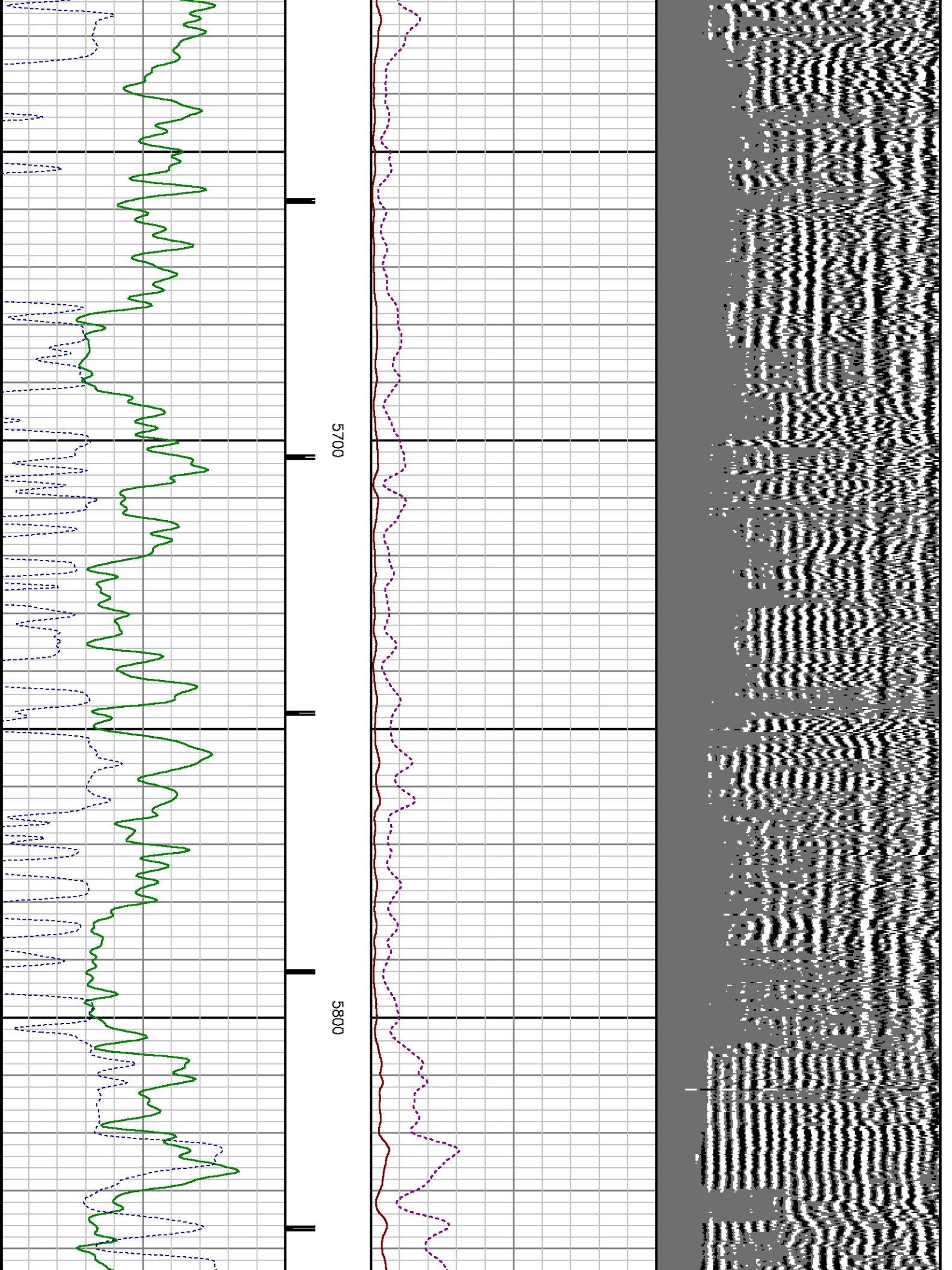




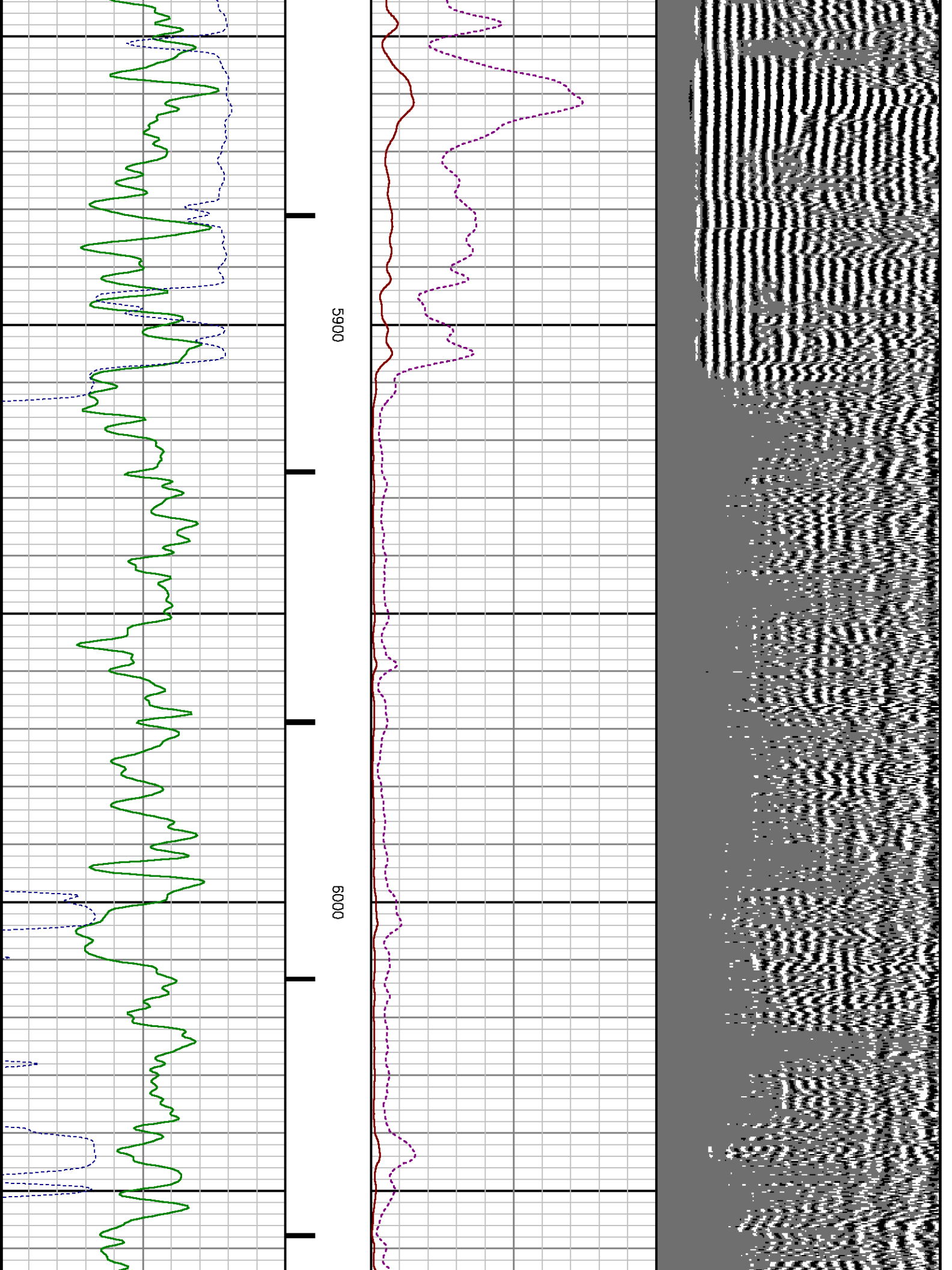


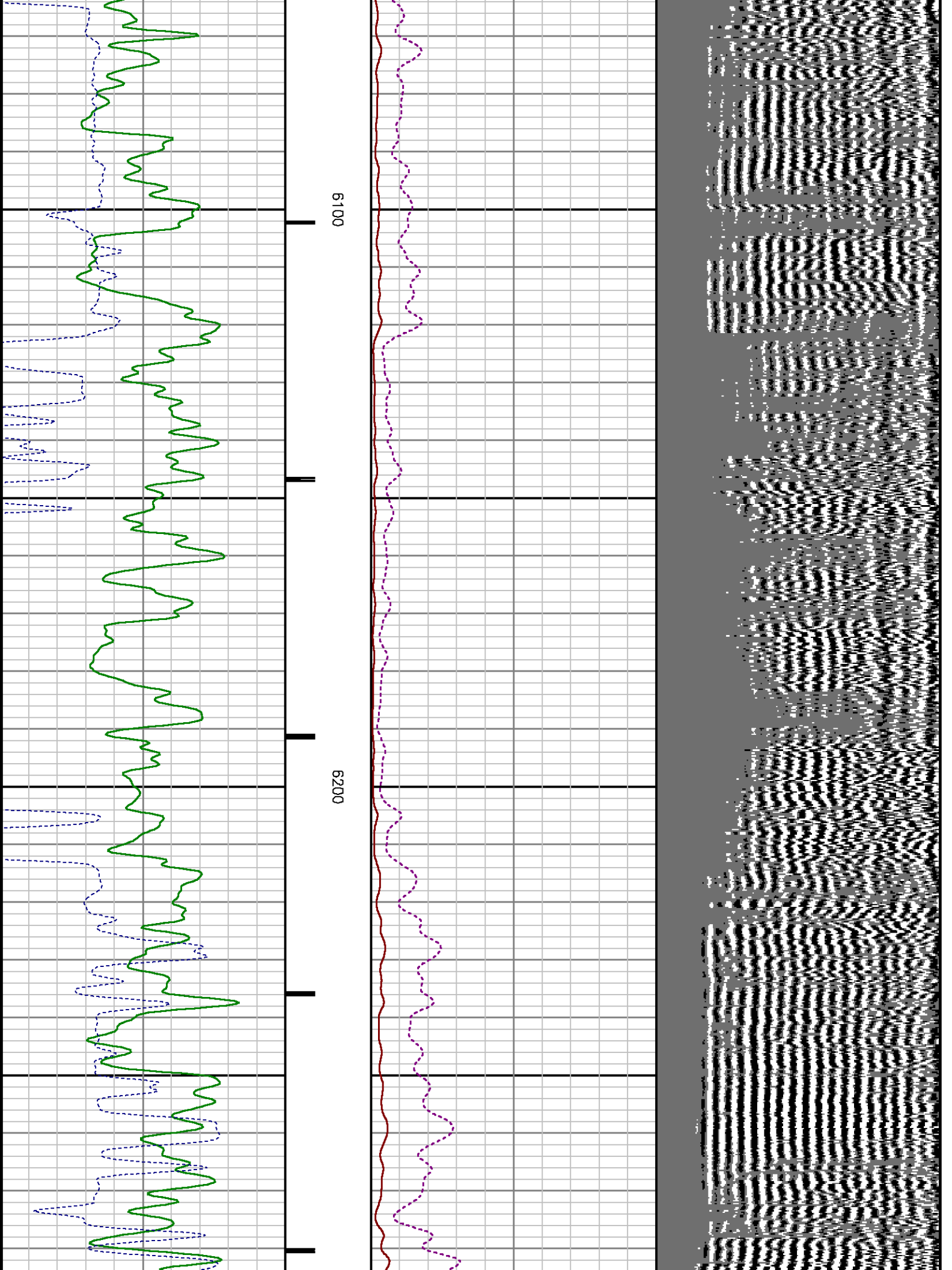


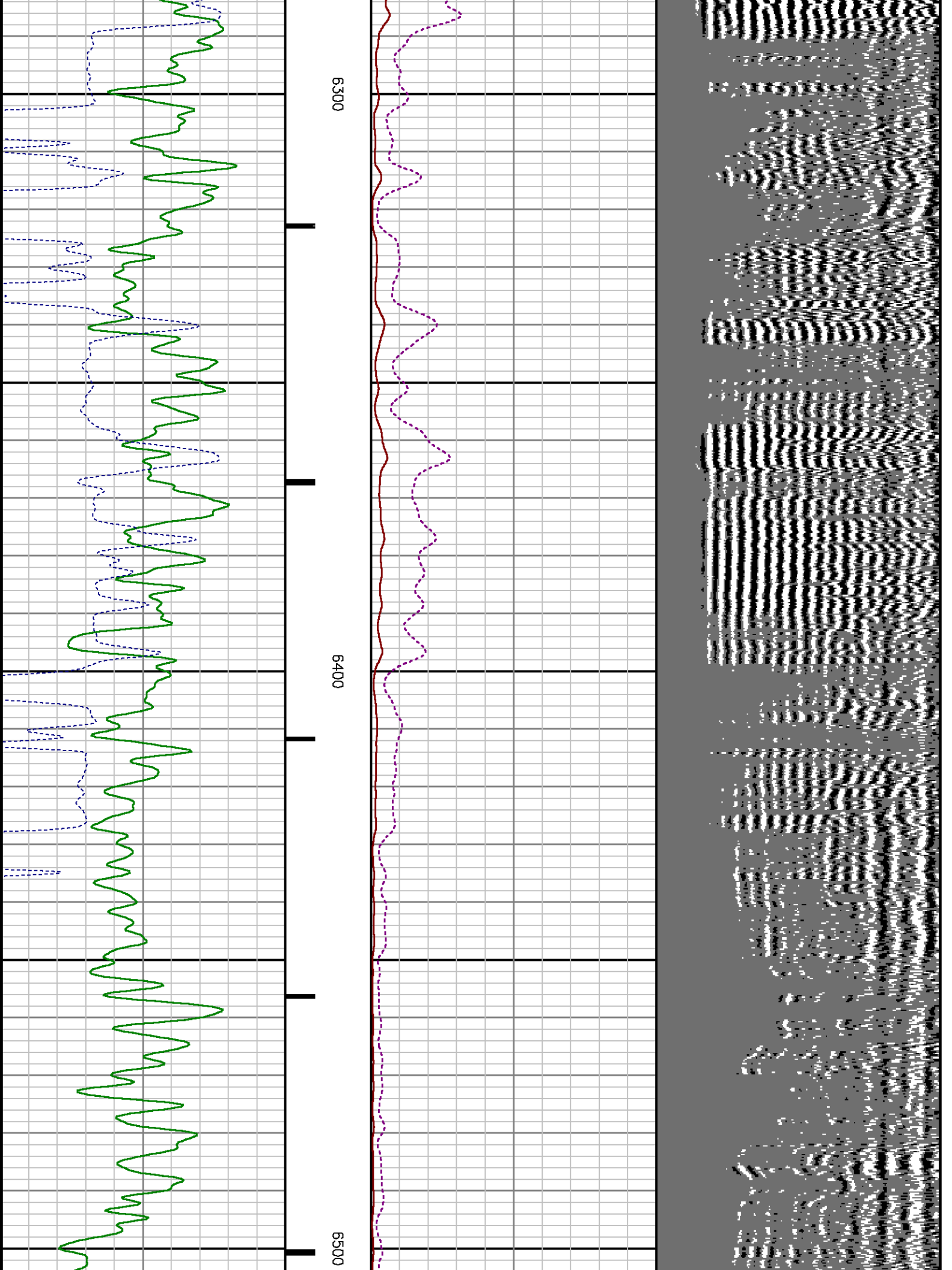




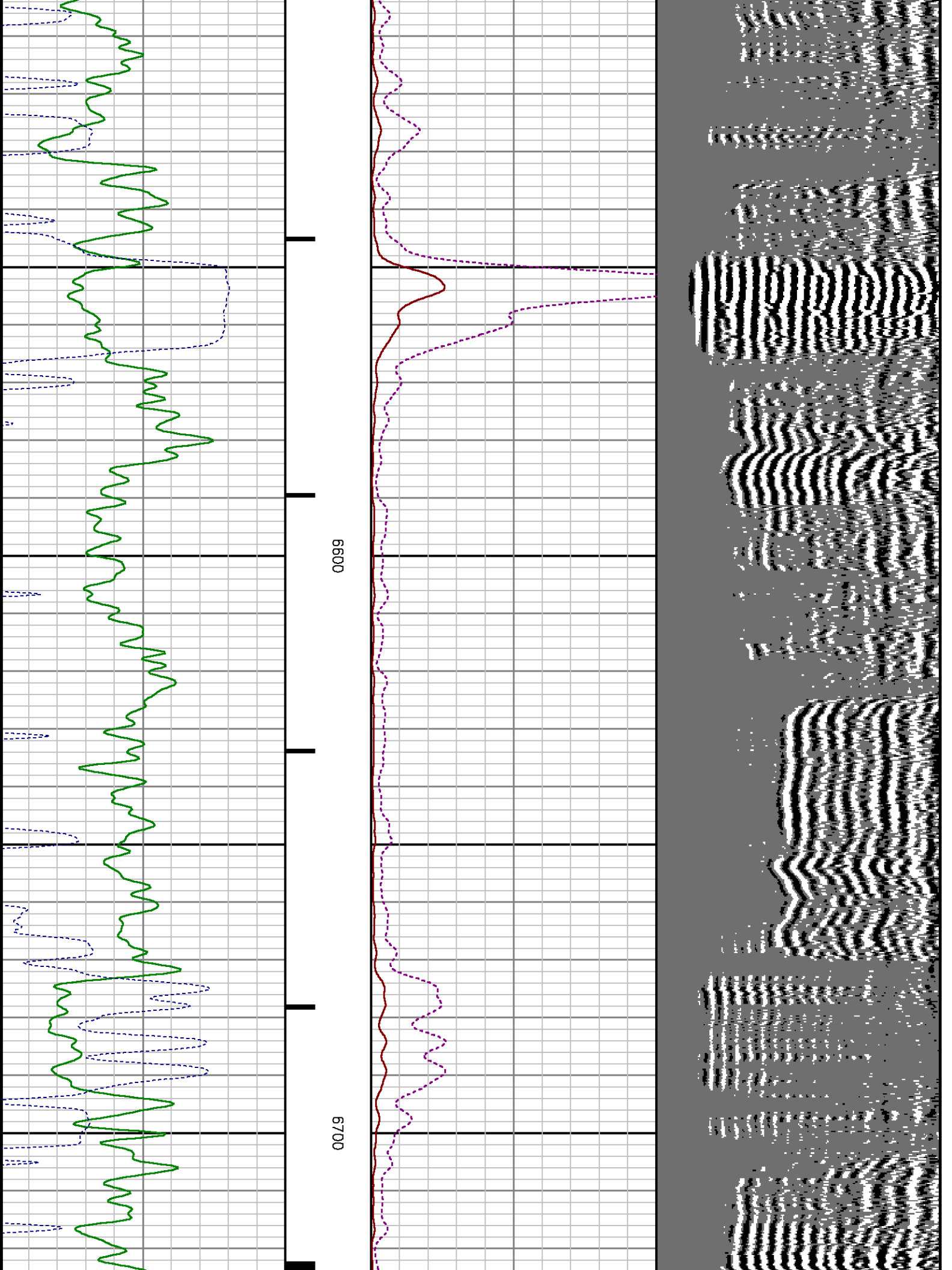


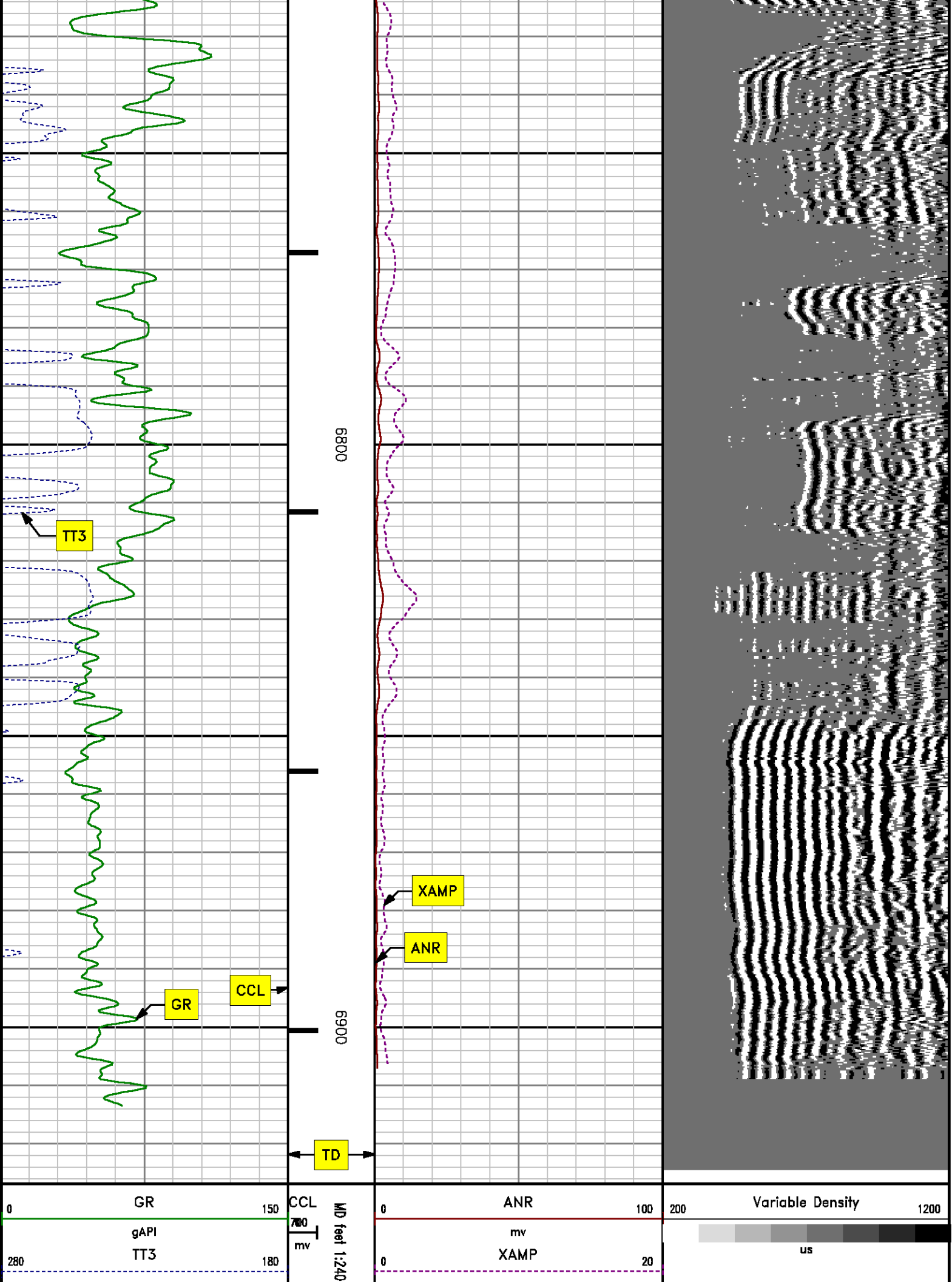












u sec

mv

# ***SECONDARY PRESENTATION***

## ***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	26.781	6924.250
RAL	Amp Gate Start Near	195.000	u sec	26.781	6924.250
RAL	Amp Gate Start Radial	195.000	u sec	26.781	6924.250
RAL	Amp Gate Width Far	25.000	u sec	26.781	6924.250
RAL	Amp Gate Width Near	25.000	u sec	26.781	6924.250
RAL	Amp Gate Width Radial	25.000	u sec	26.781	6924.250
RAL	casing od	4.500	inches	26.781	6924.250
RAL	casing wt	11.600	lbm/ft	26.781	6924.250
RAL	FB Start Far	291.900	u sec	26.781	6924.250
RAL	FB Start Near	175.391	u sec	26.781	6924.250
RAL	FB Start Radial	175.391	u sec	26.781	6924.250
RAL	FB Thresh Far	10.000	mv	26.781	6924.250
RAL	FB Thresh Near	4.000	mv	26.781	6924.250
RAL	FB Thresh Radial	4.000	mv	26.781	6924.250
RAL	Fluid Travel Time	200.000	u sec/ft	26.781	6924.250

## **DEPTH OFFSETS**

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

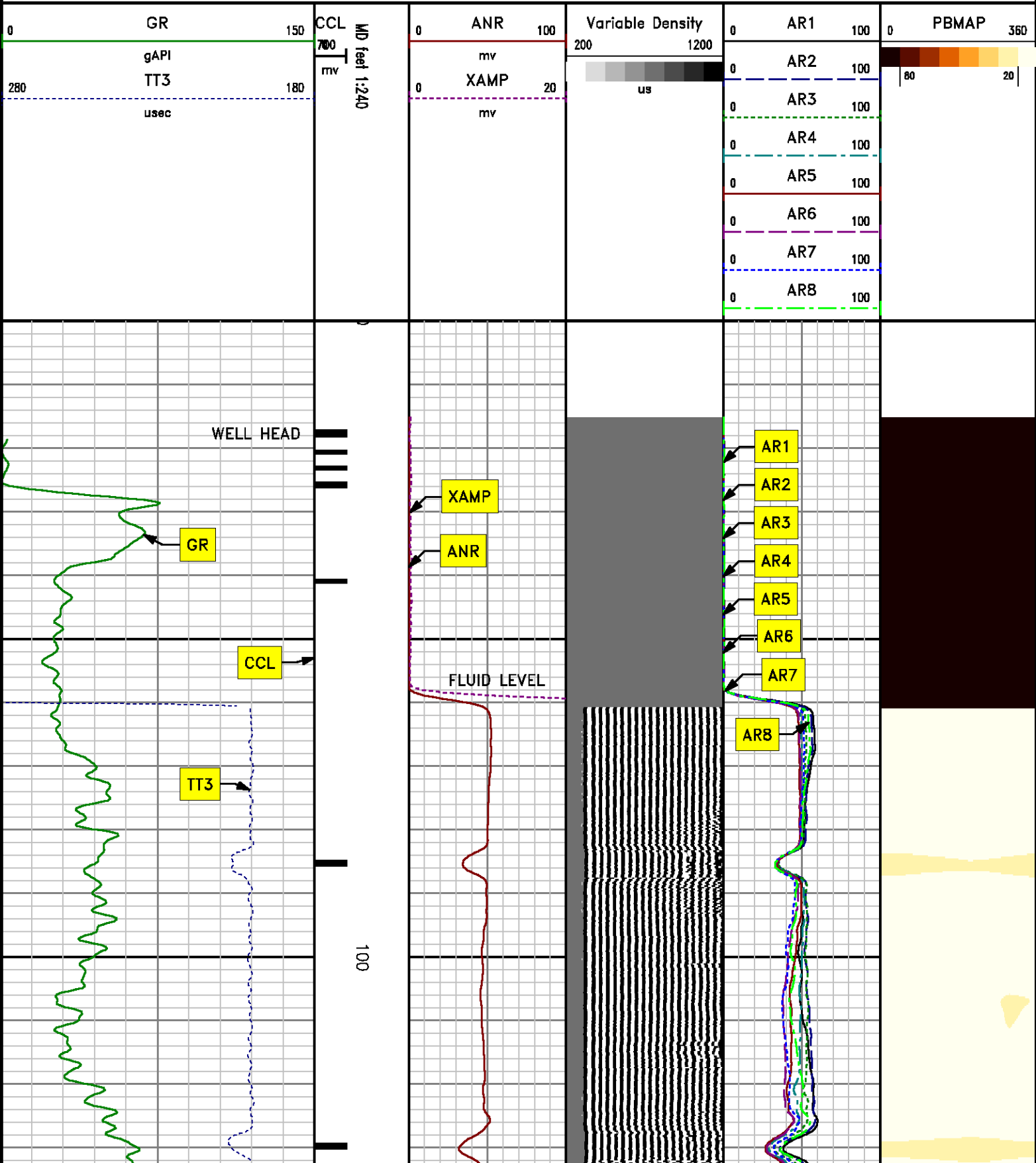
Well : PA 323-6

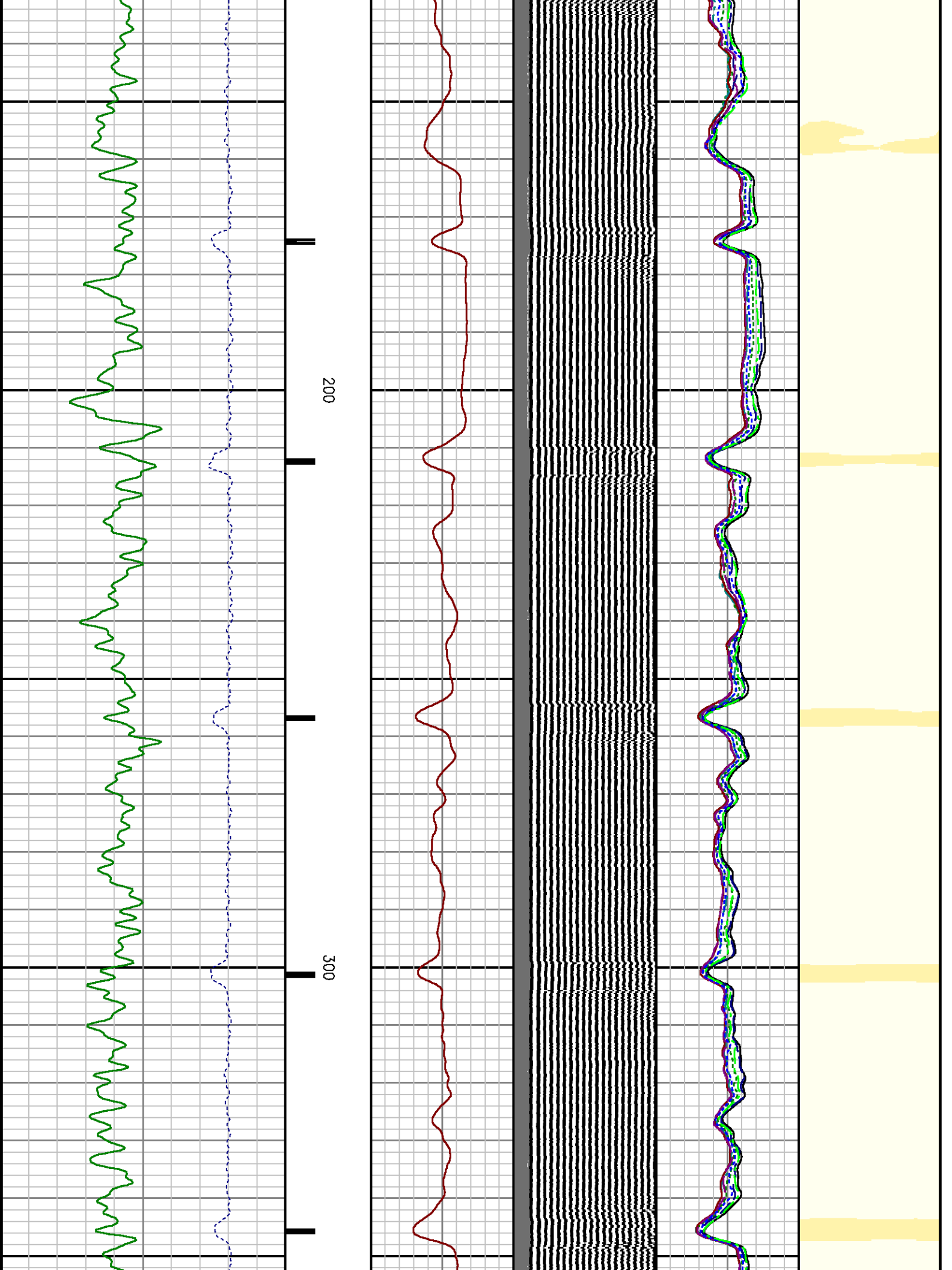
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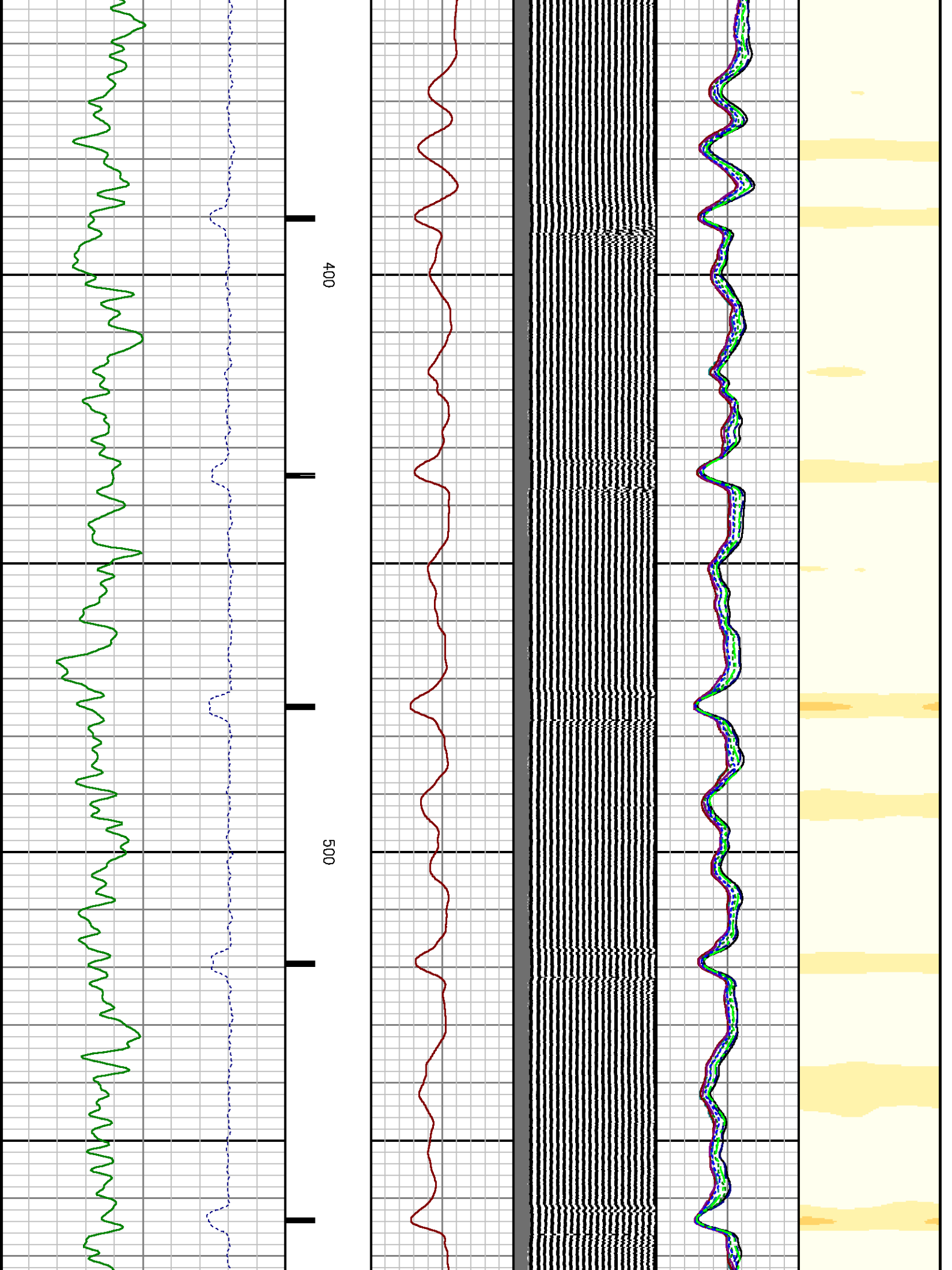
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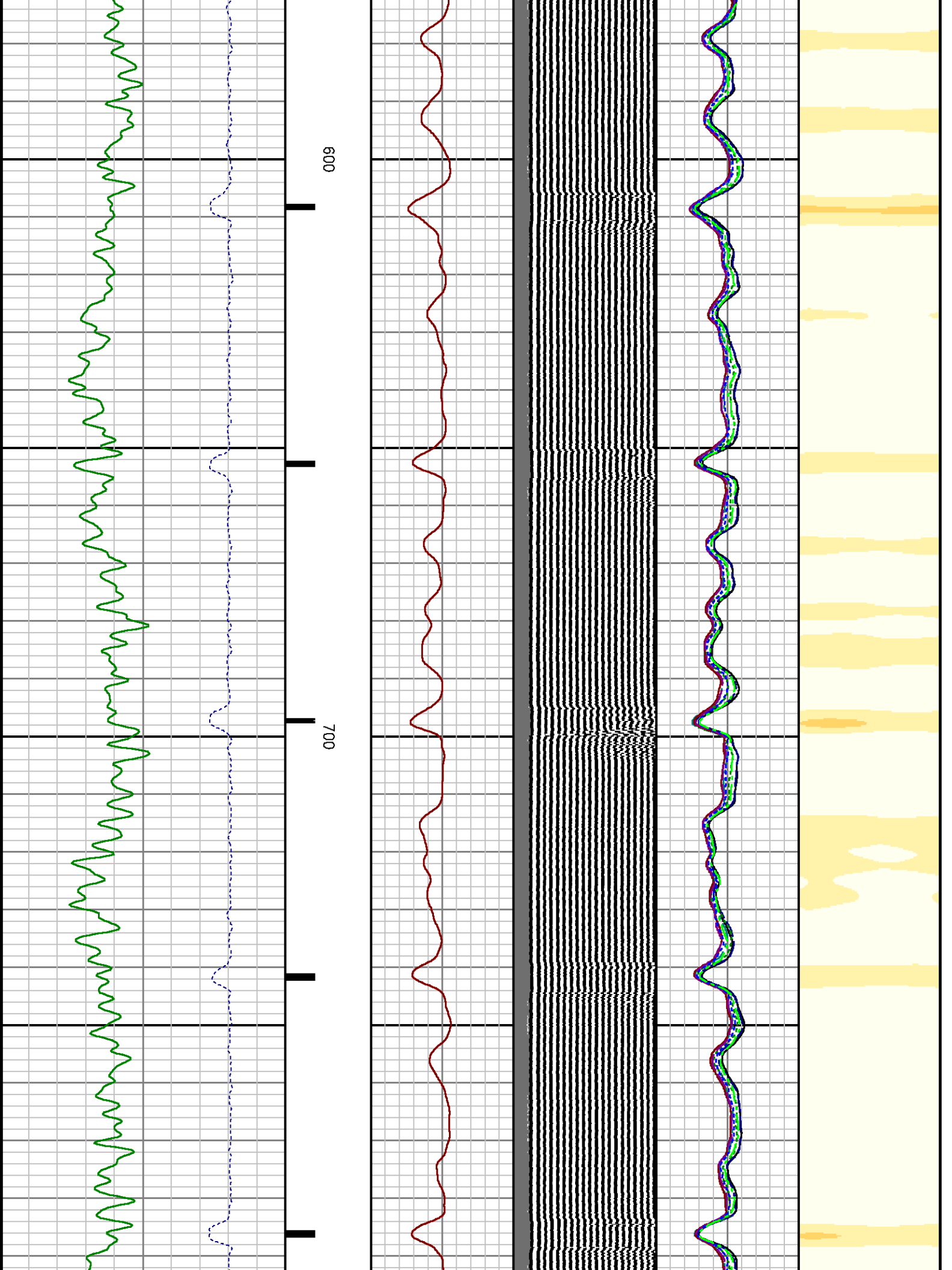
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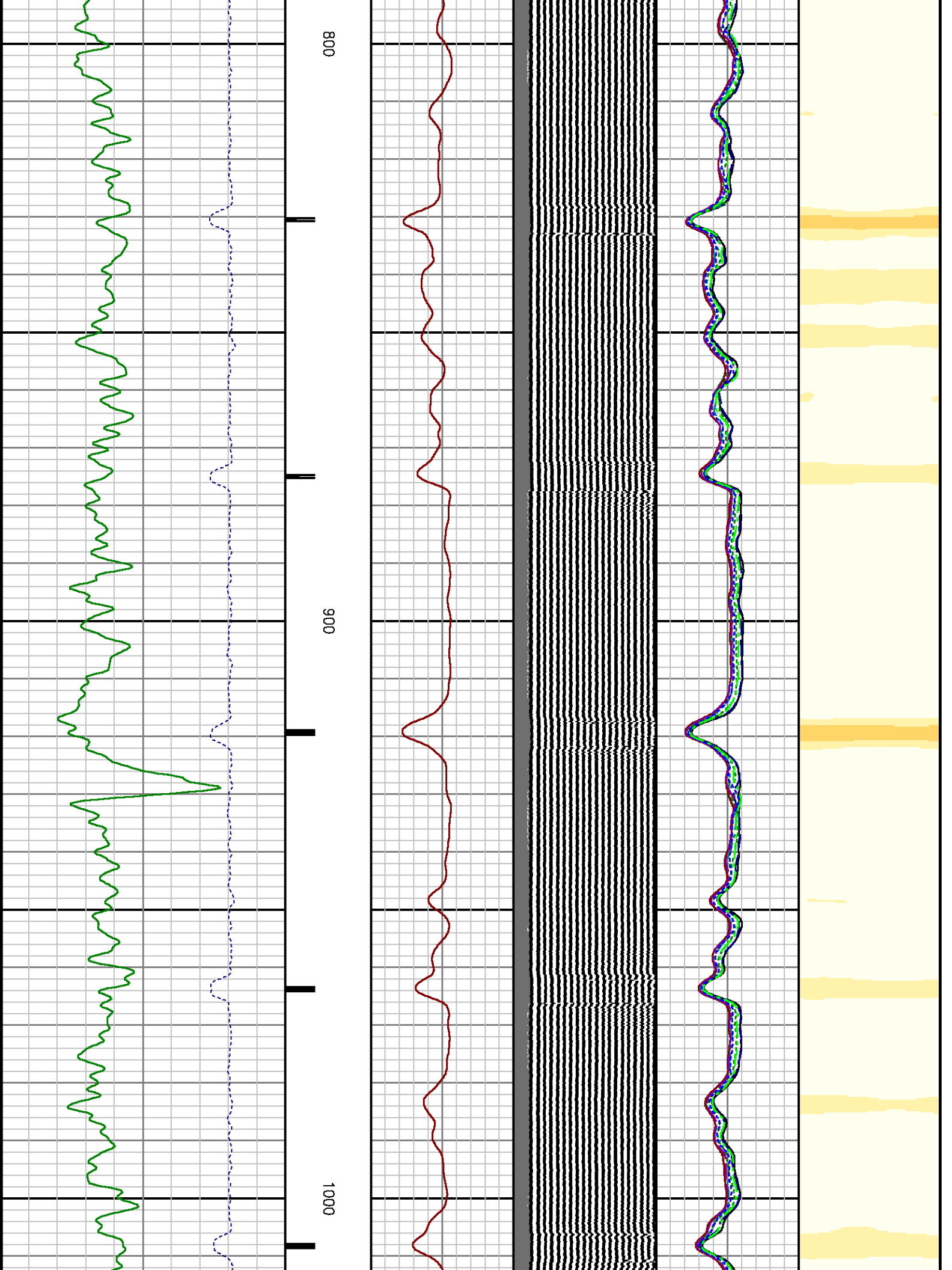


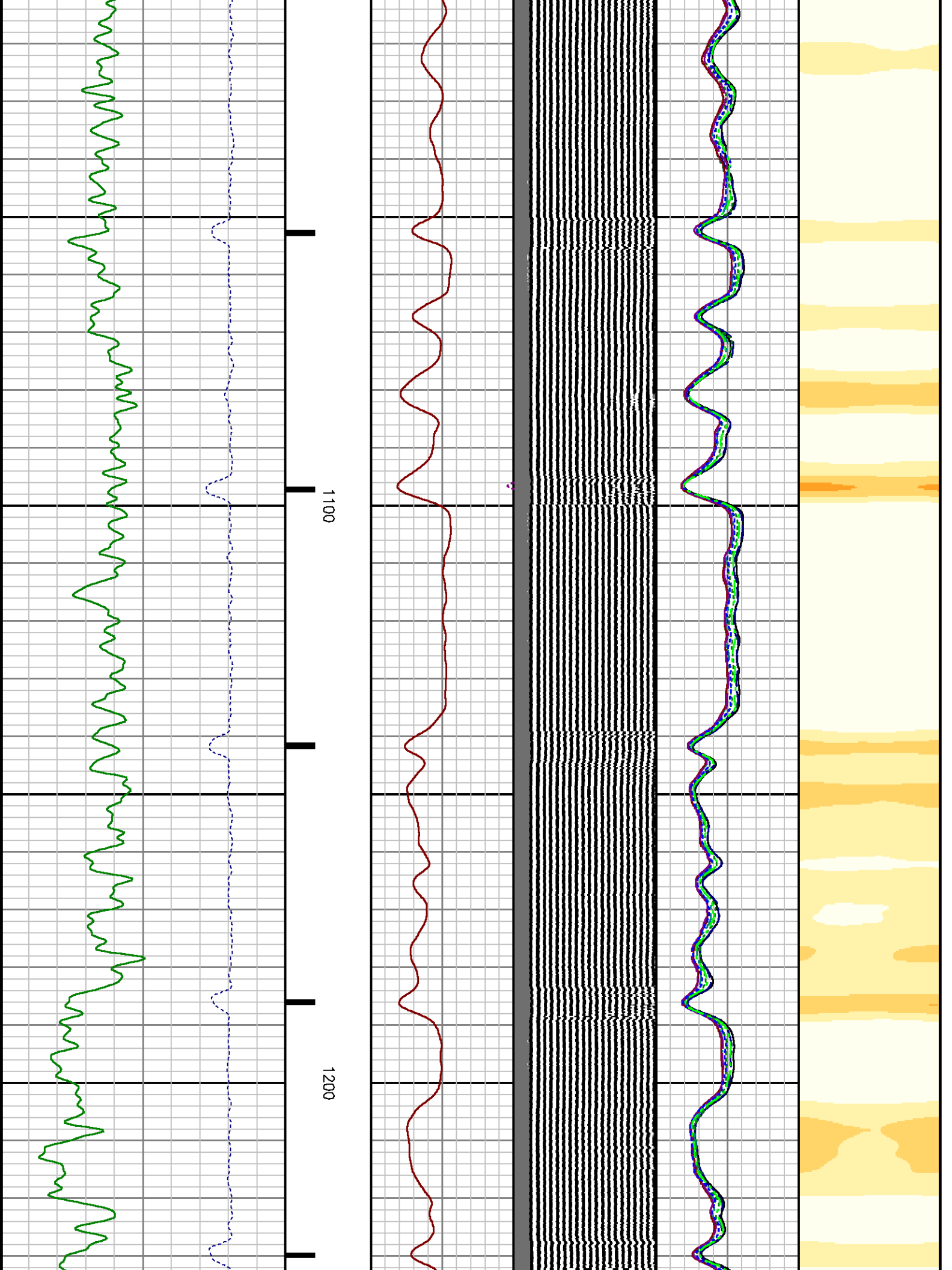


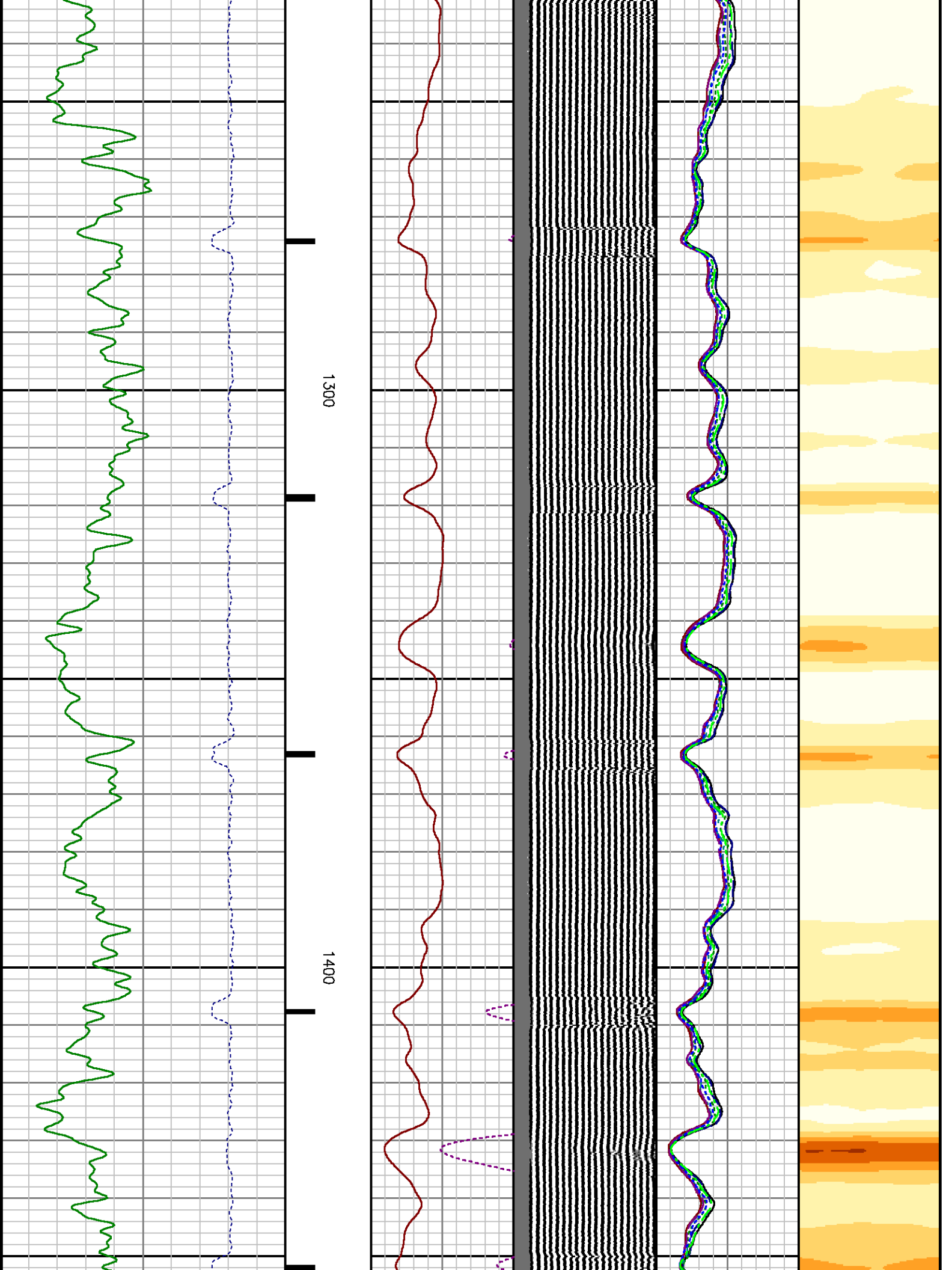




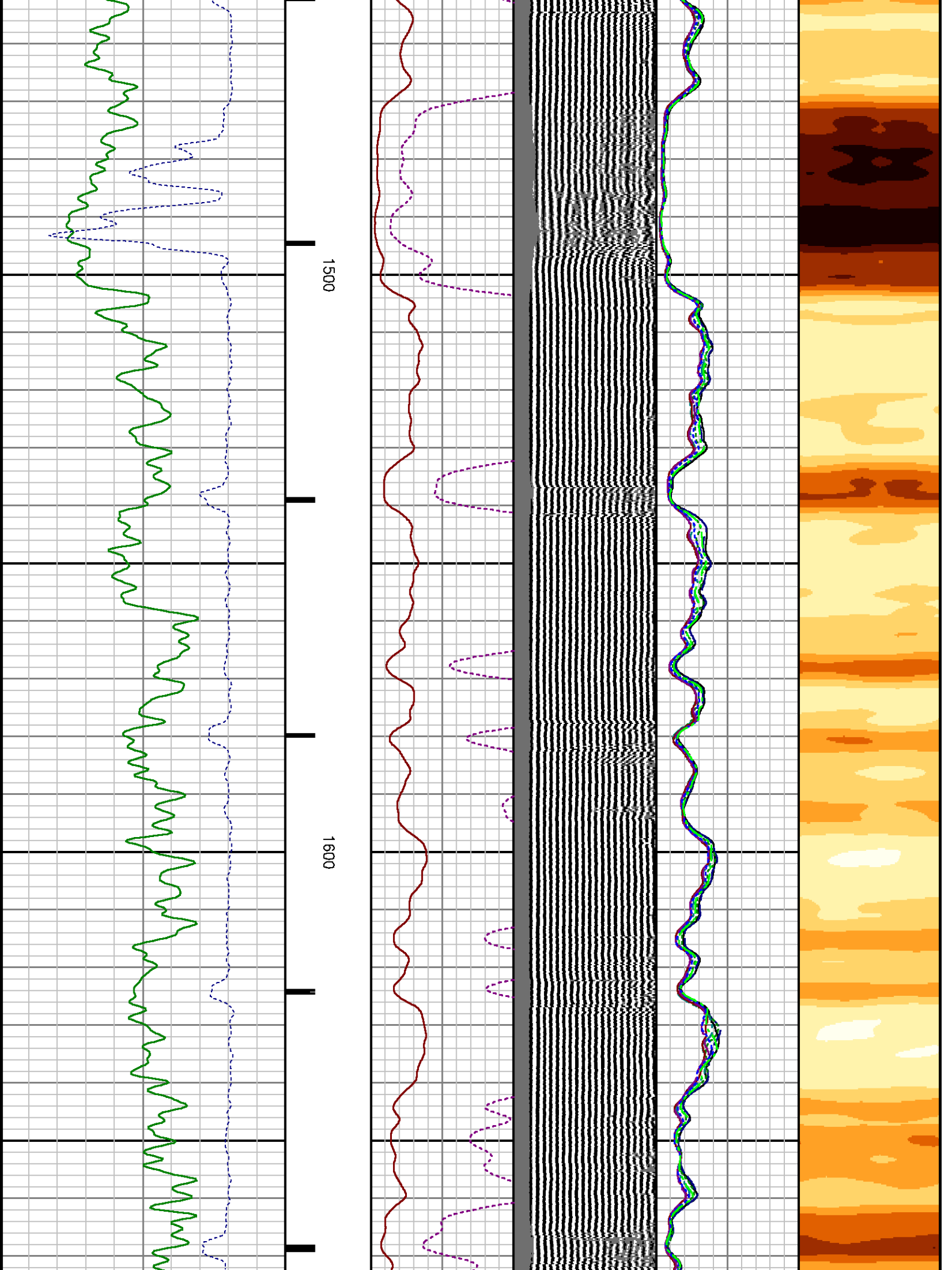


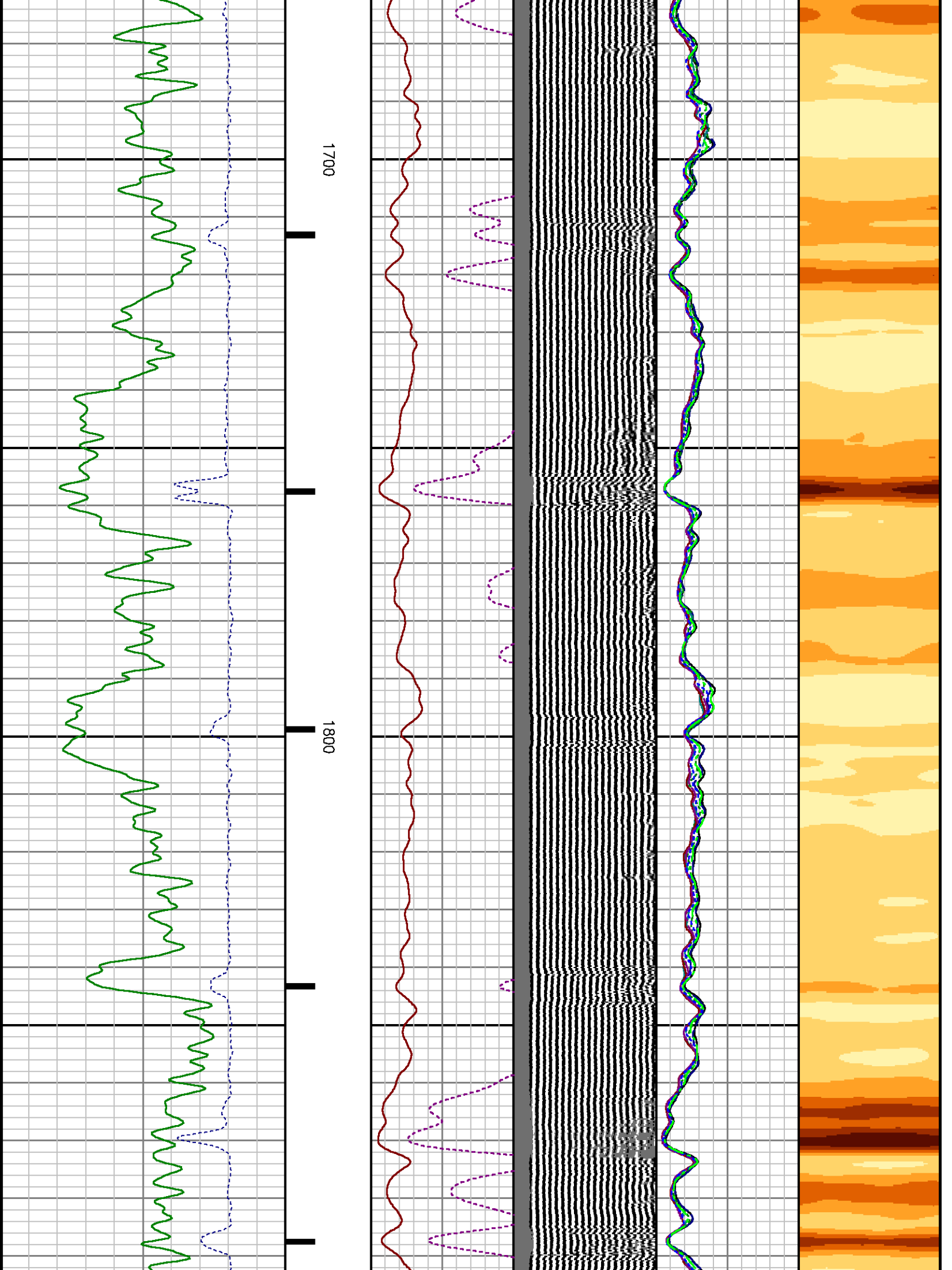


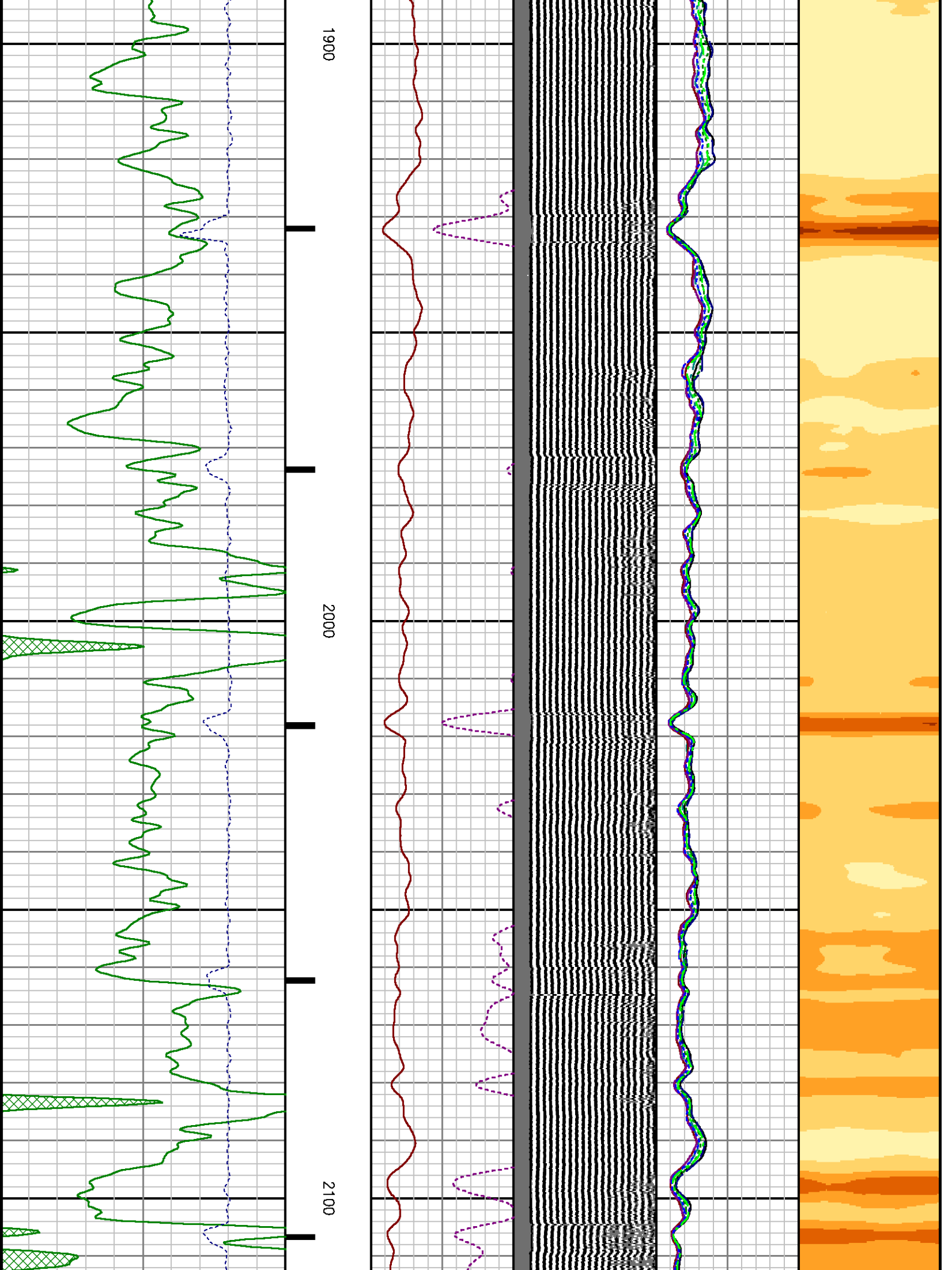


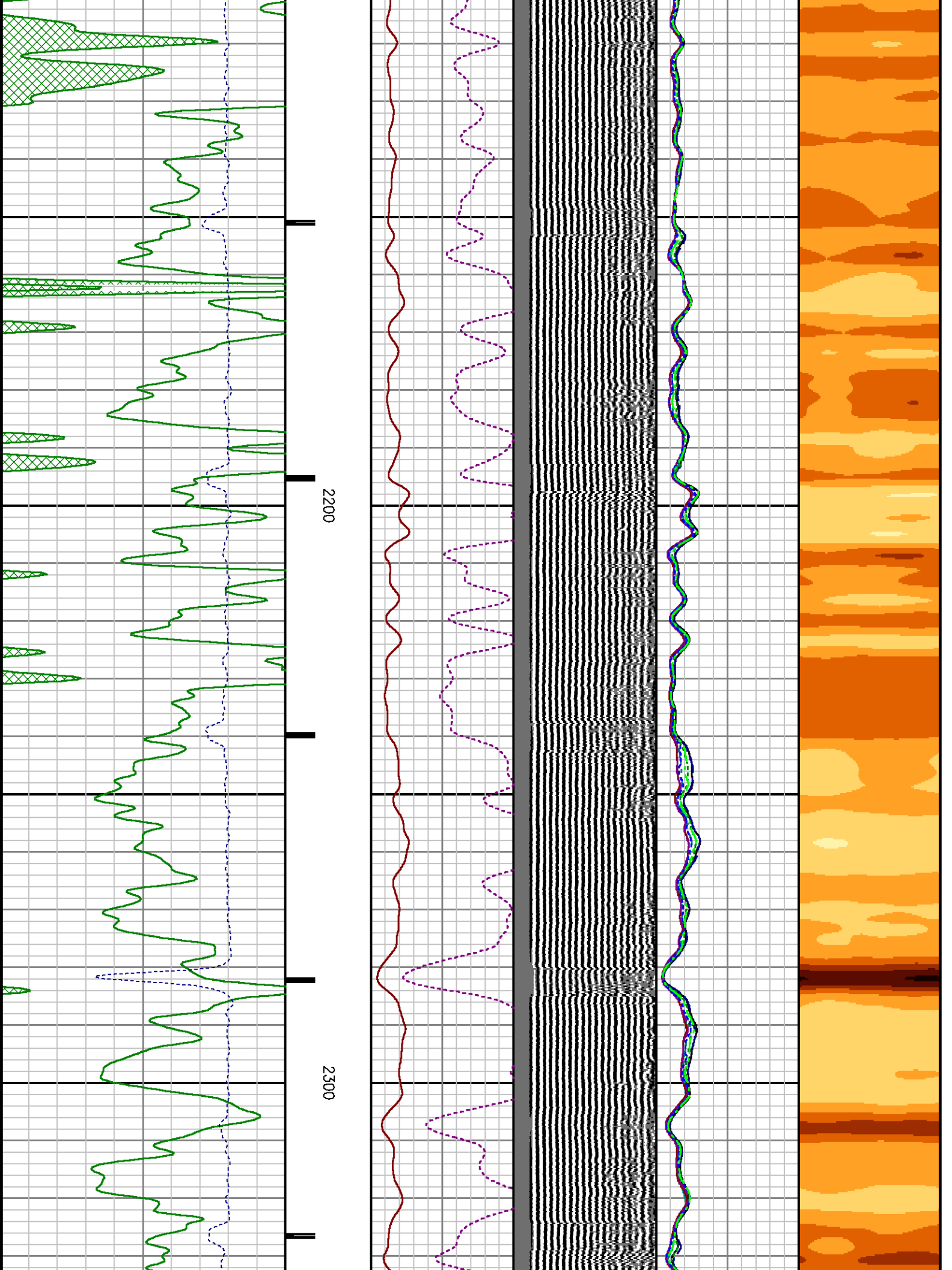


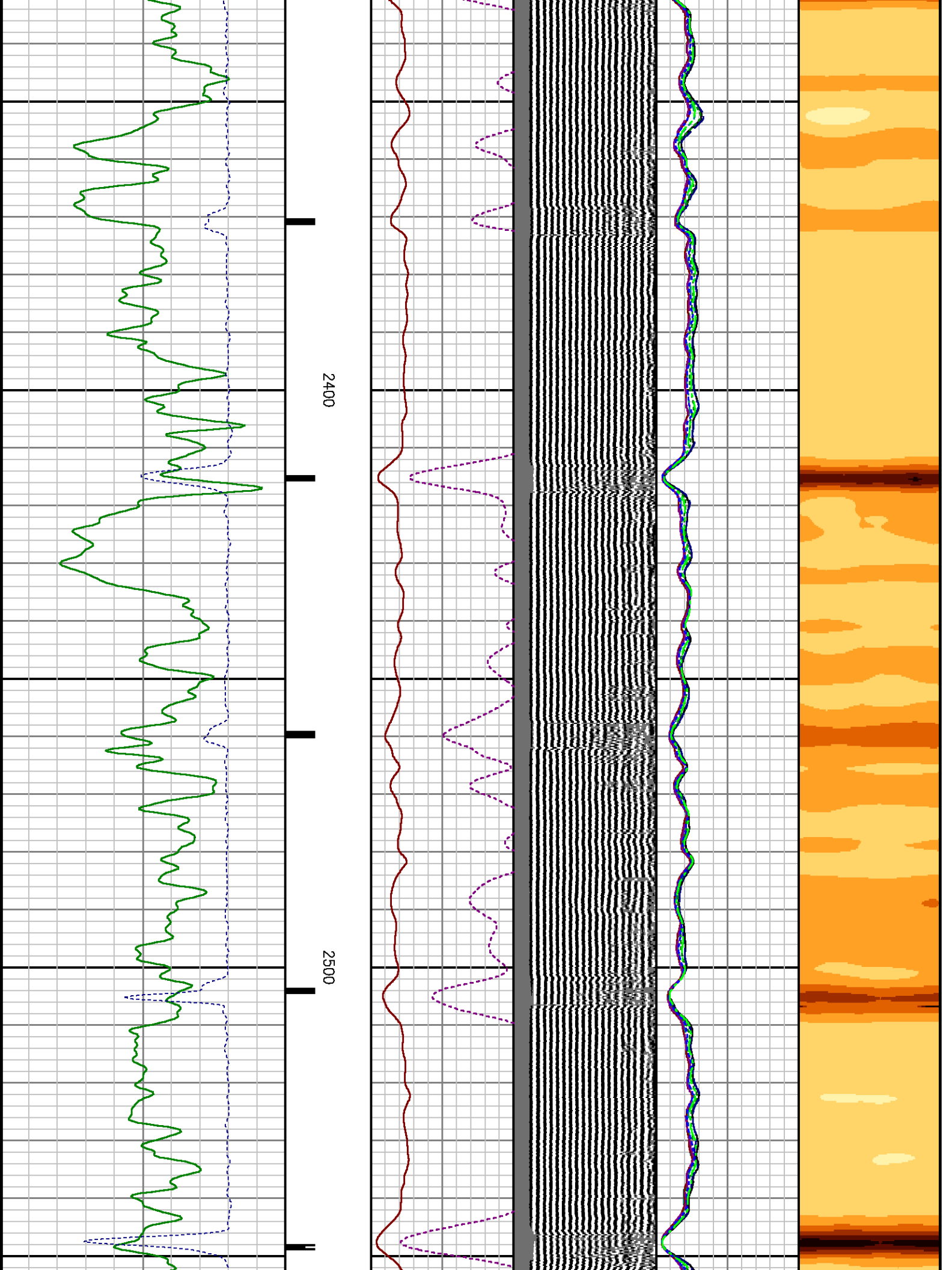




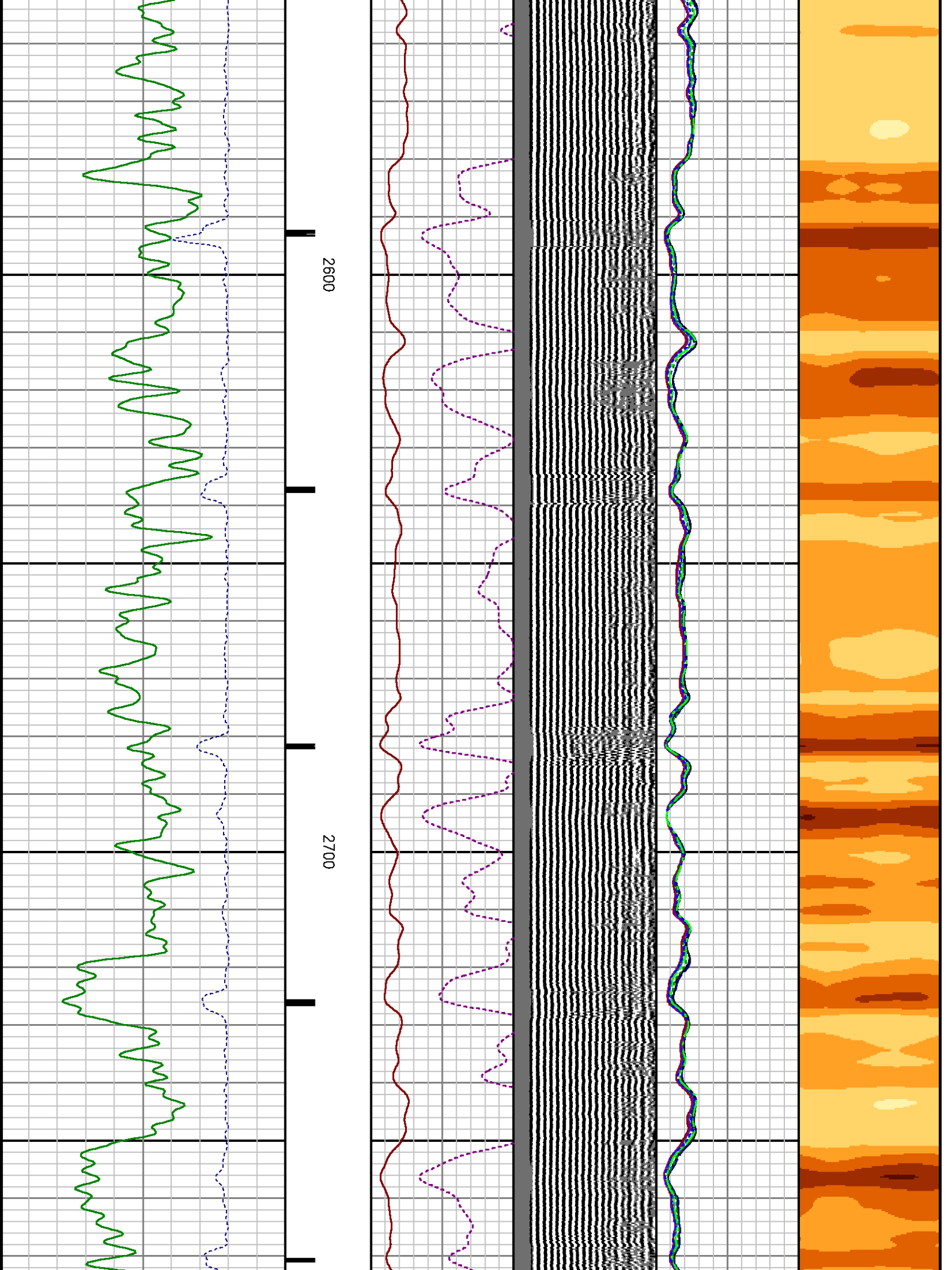


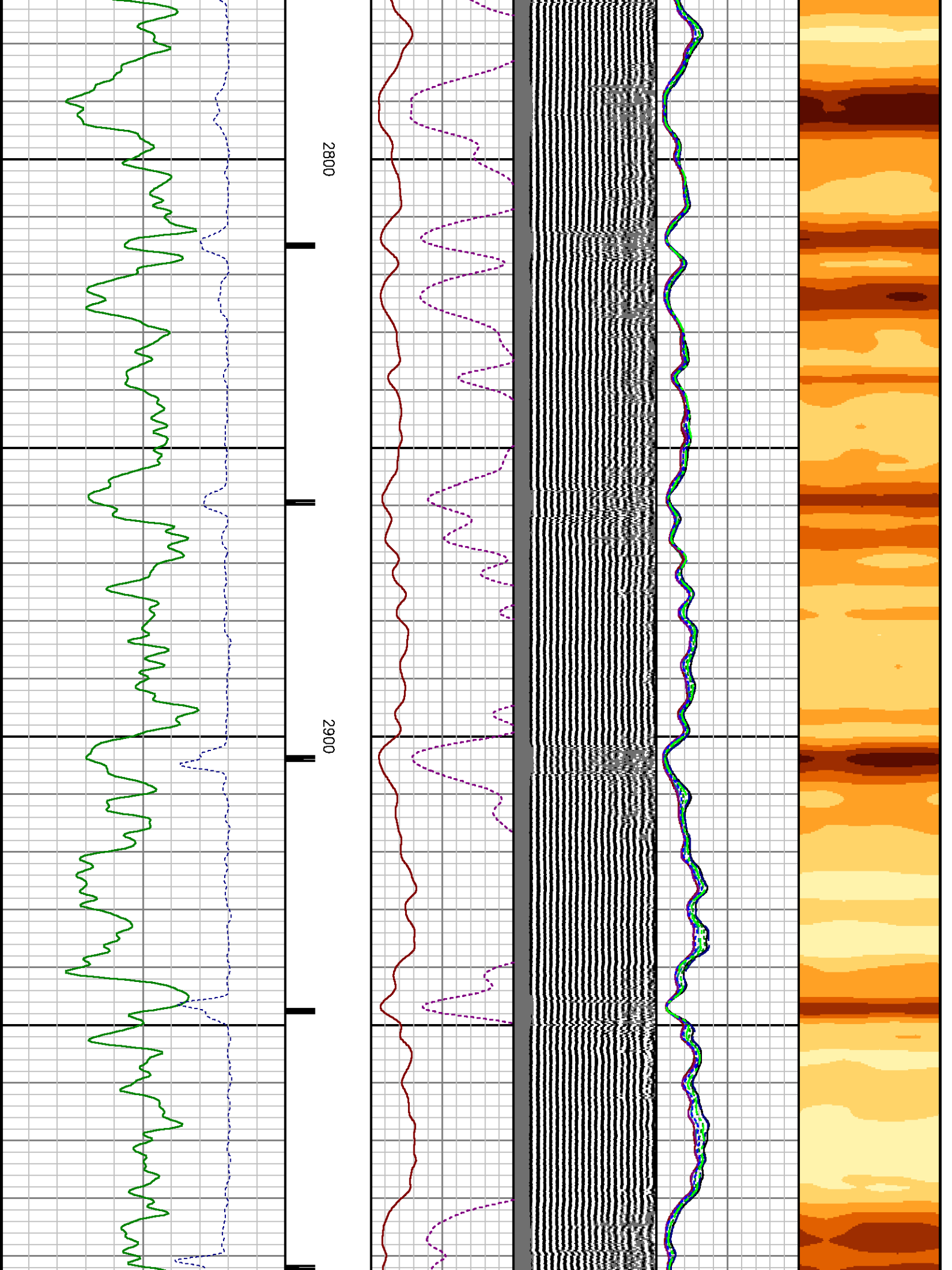


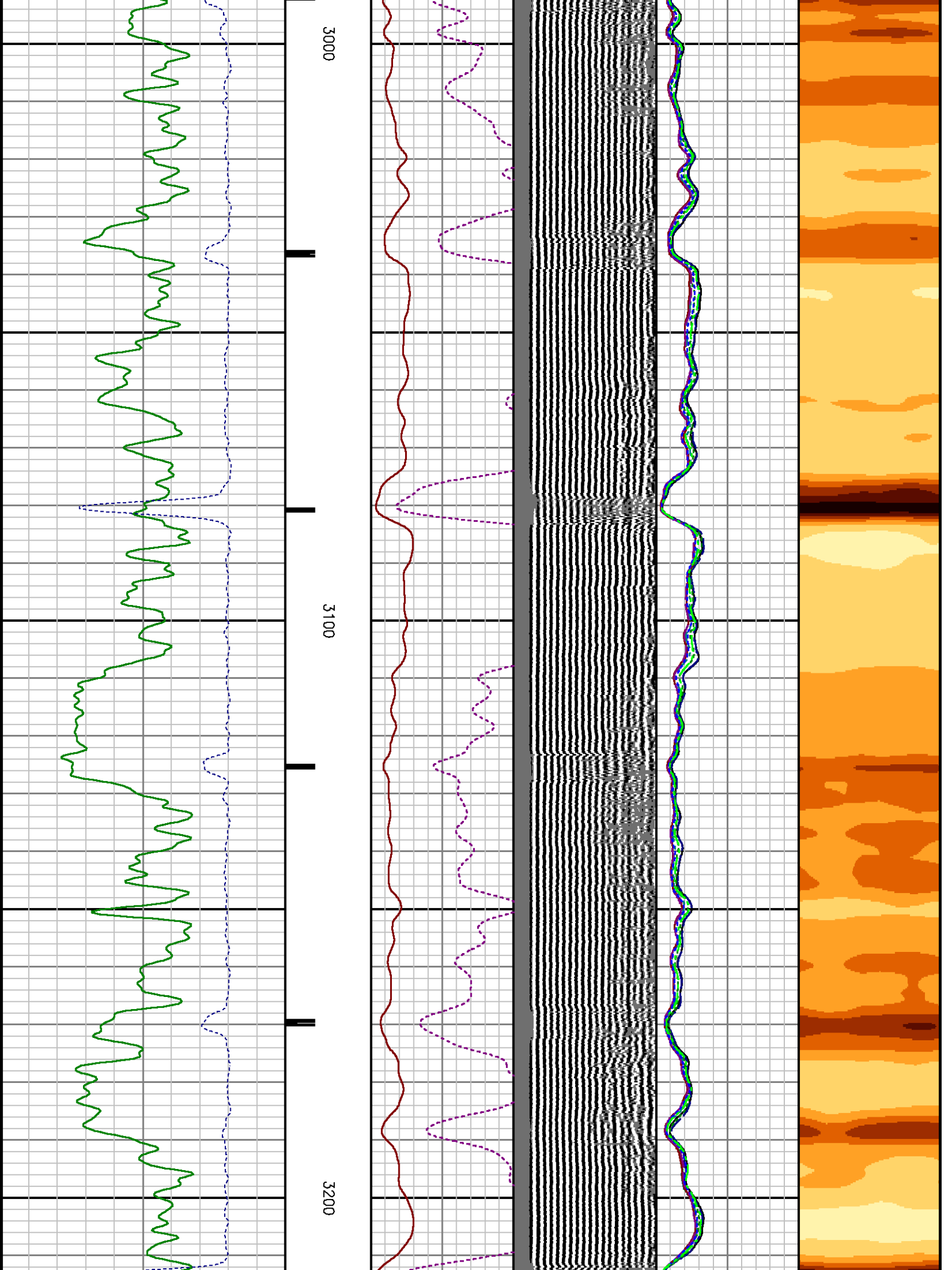


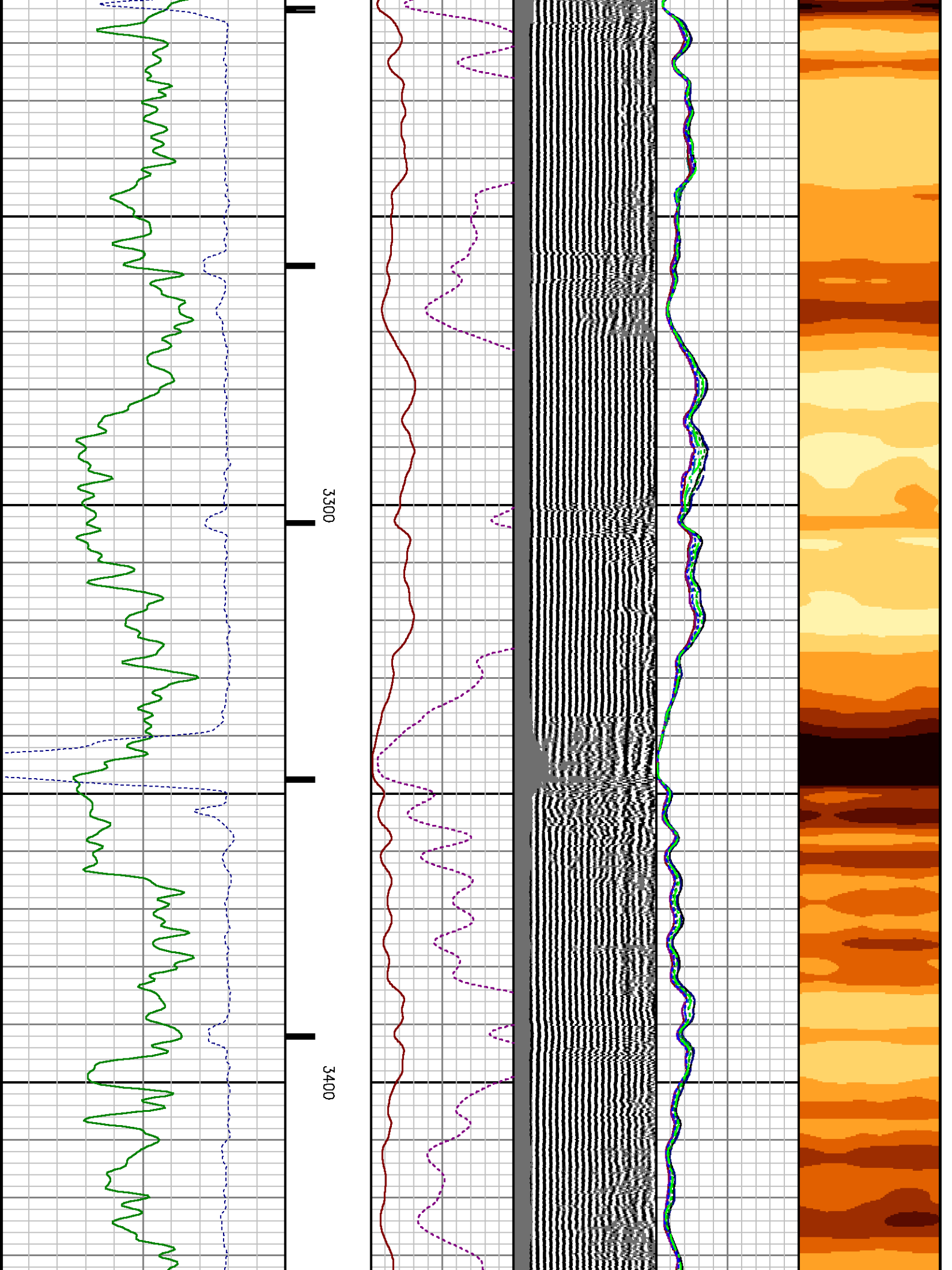


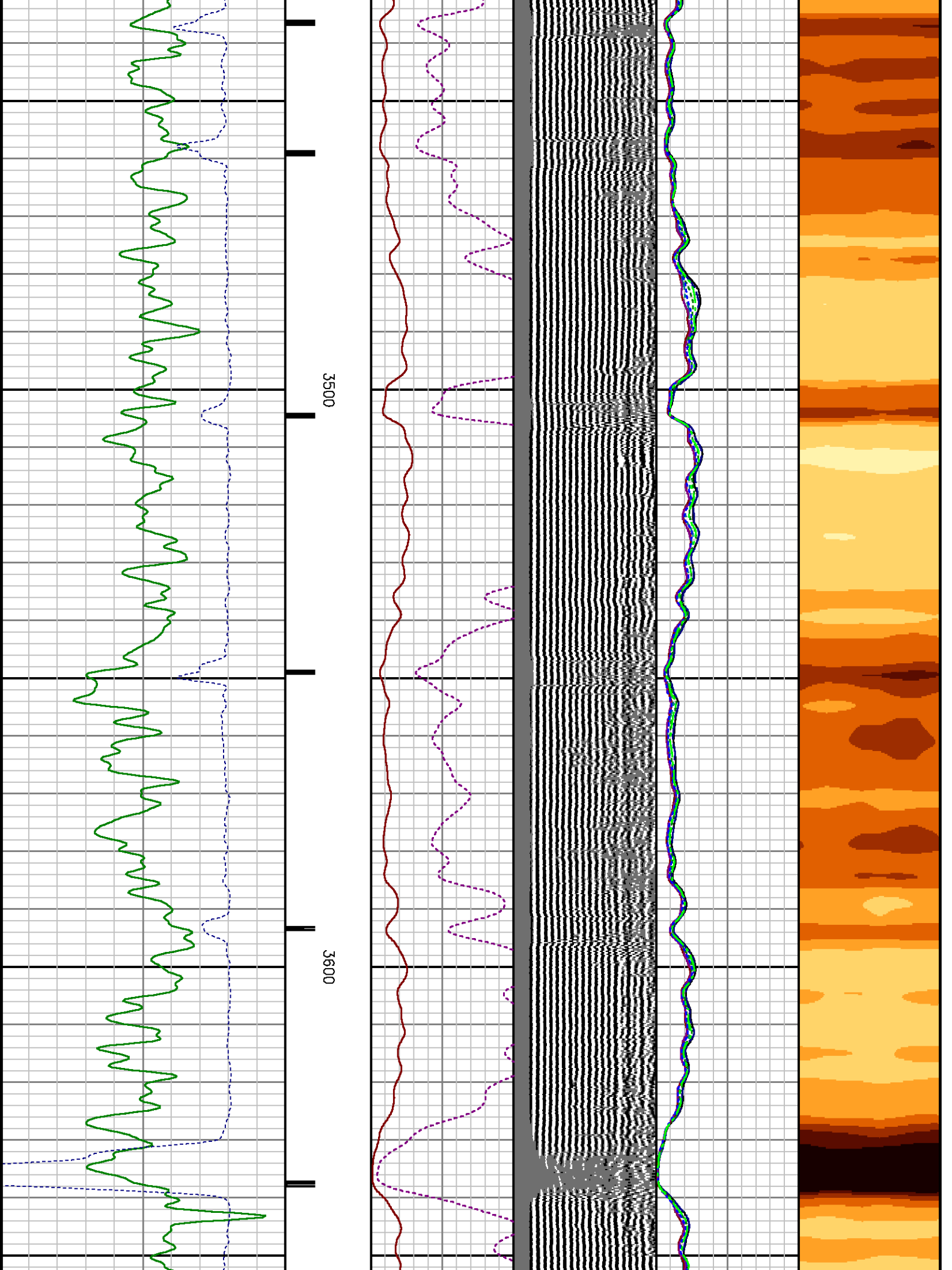




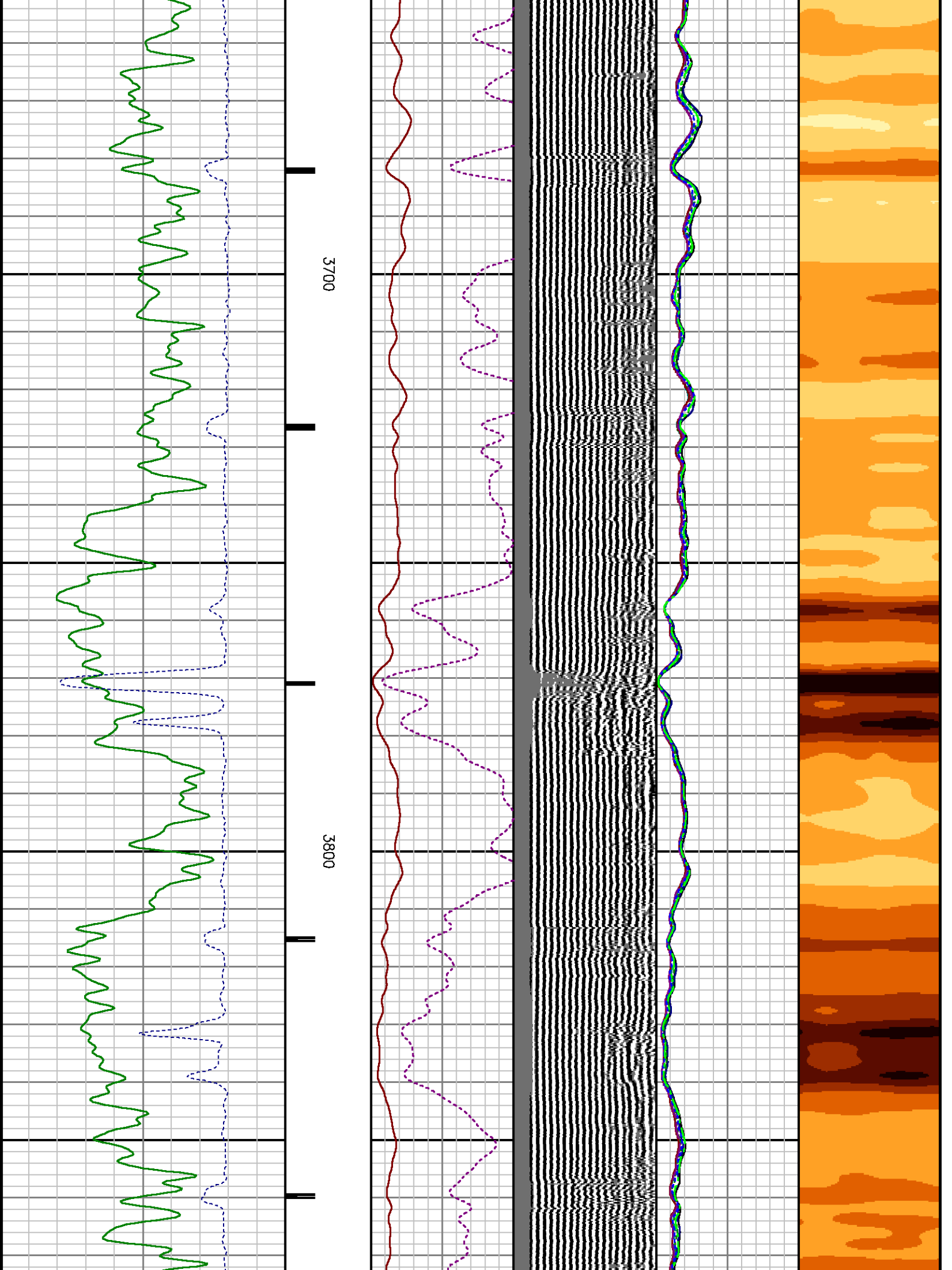


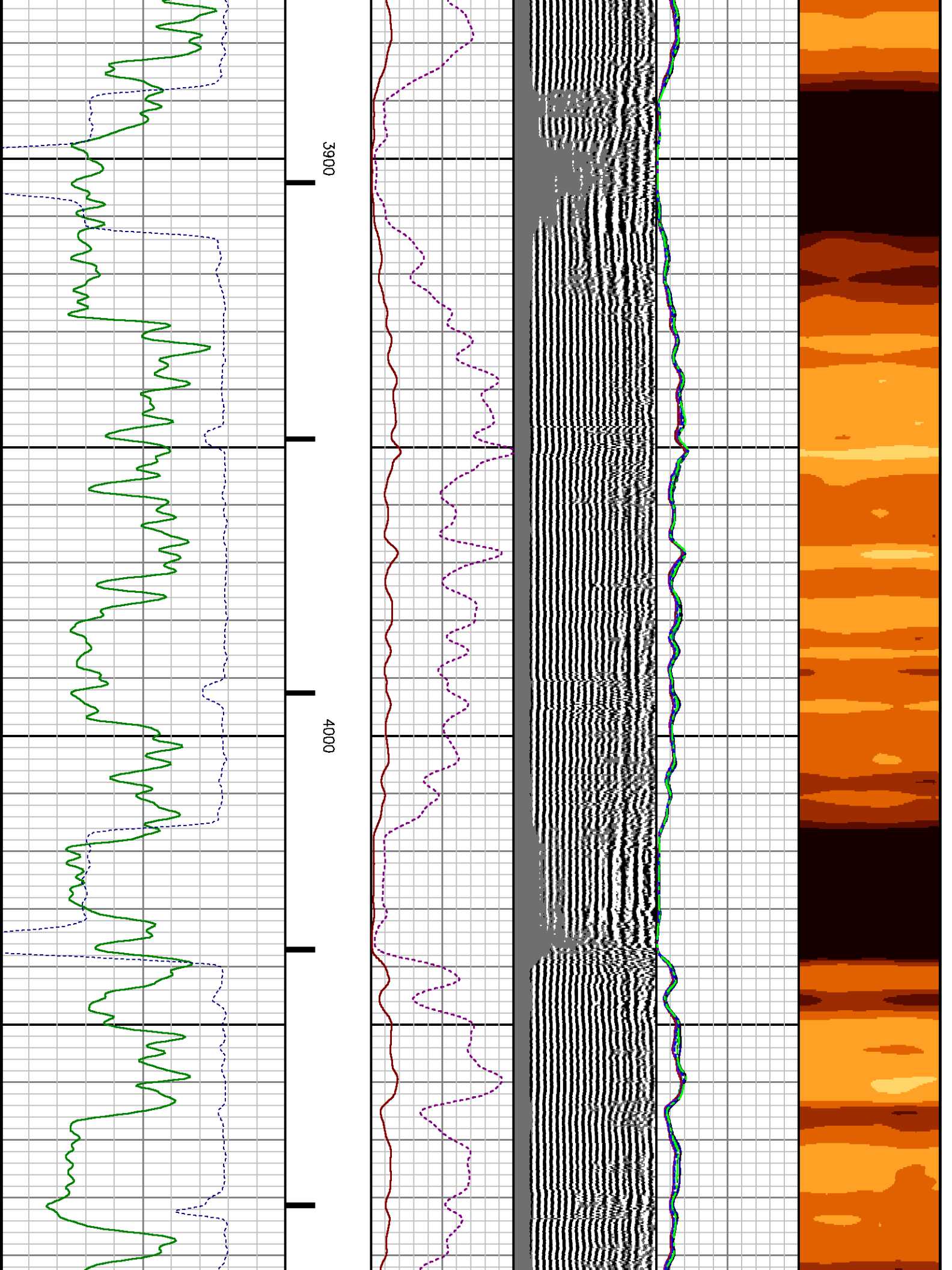


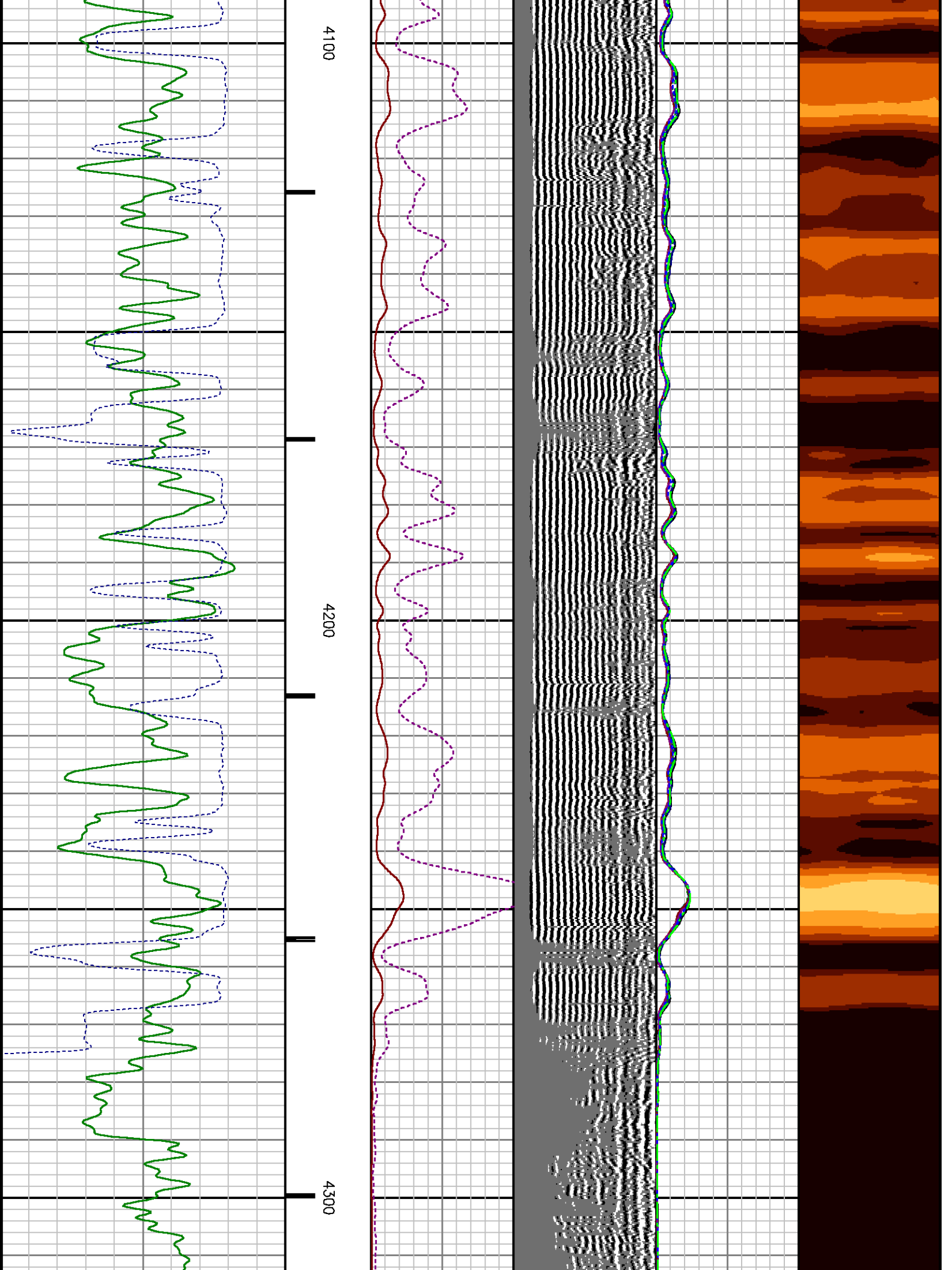


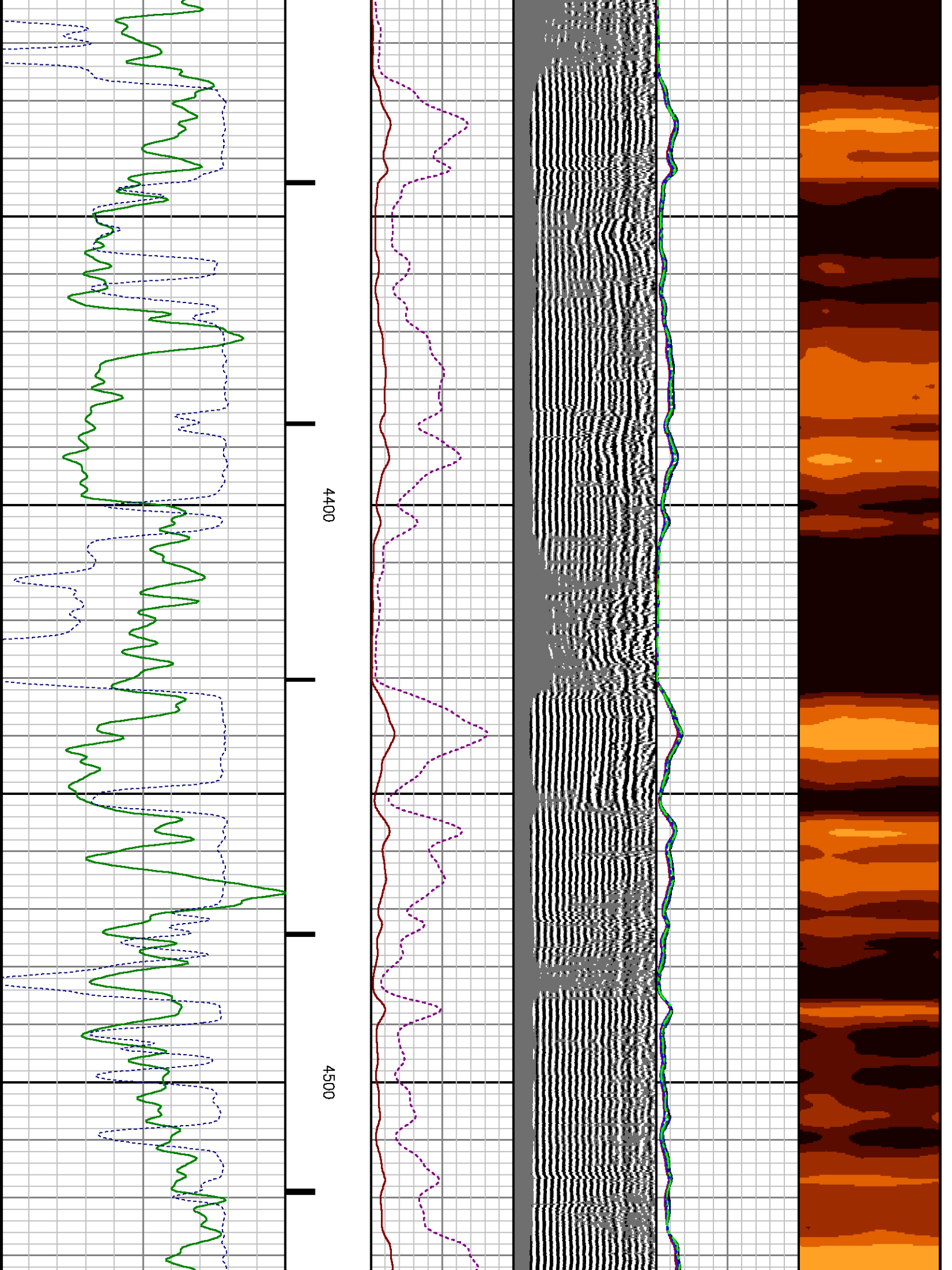


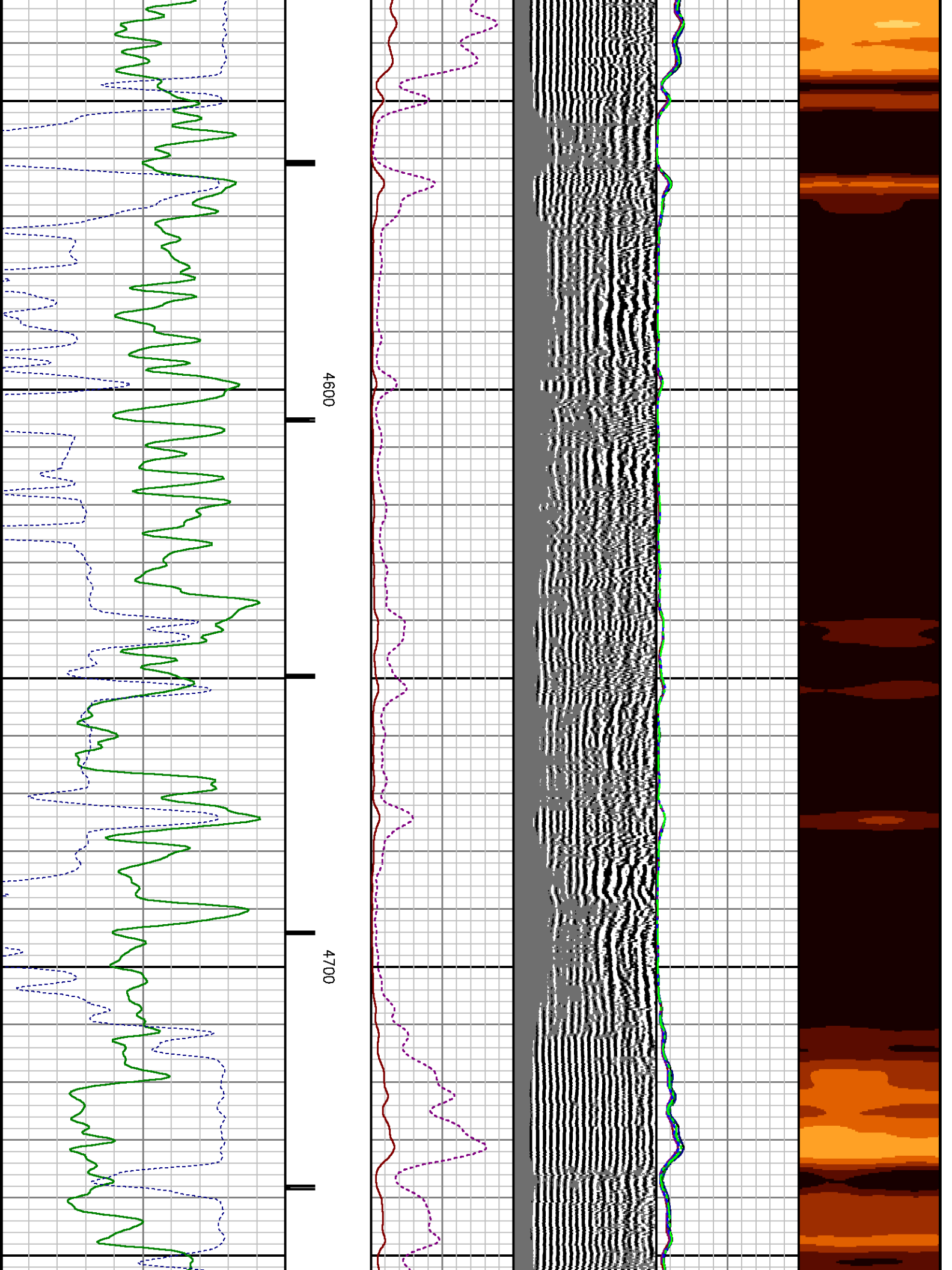




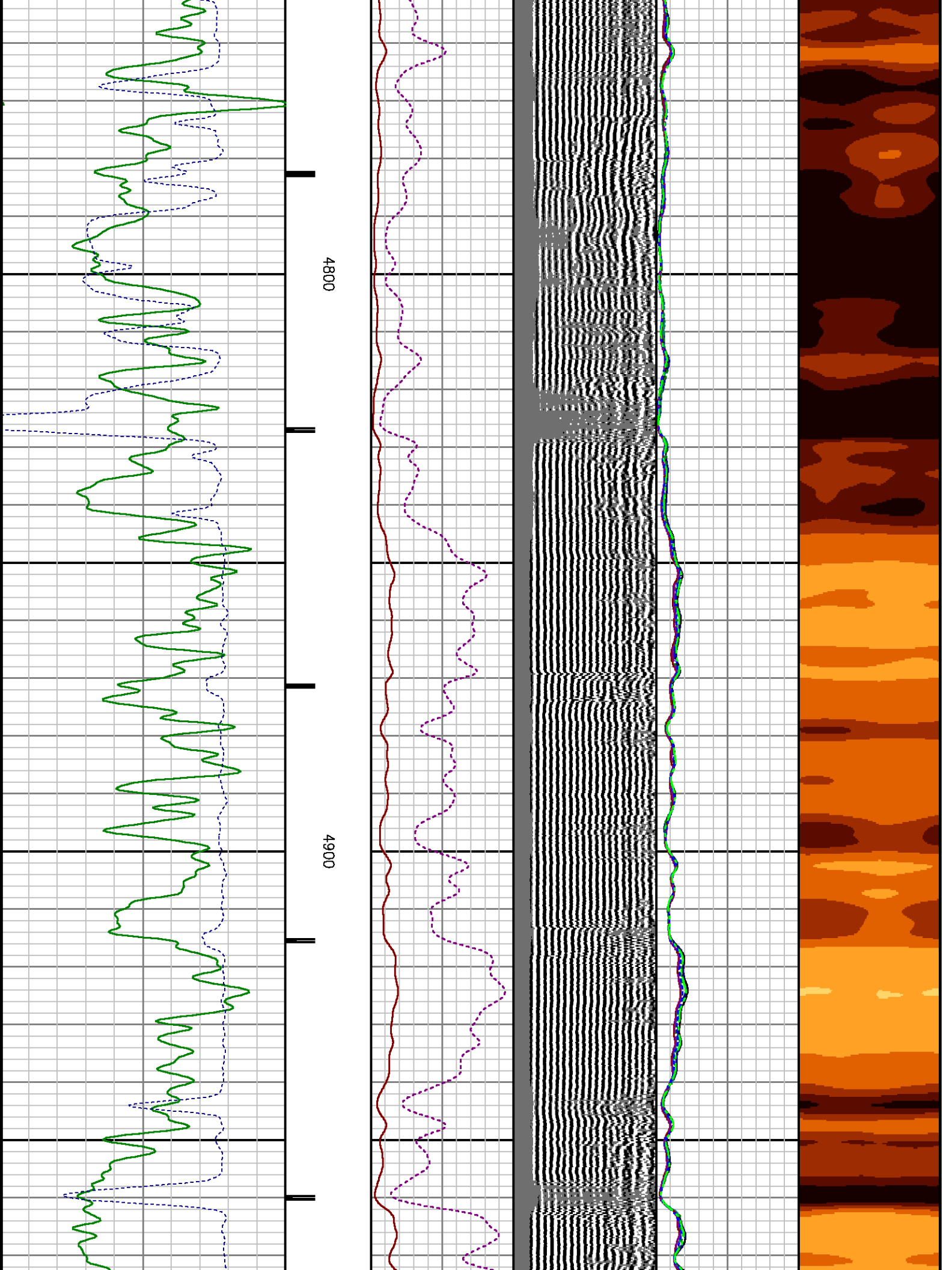




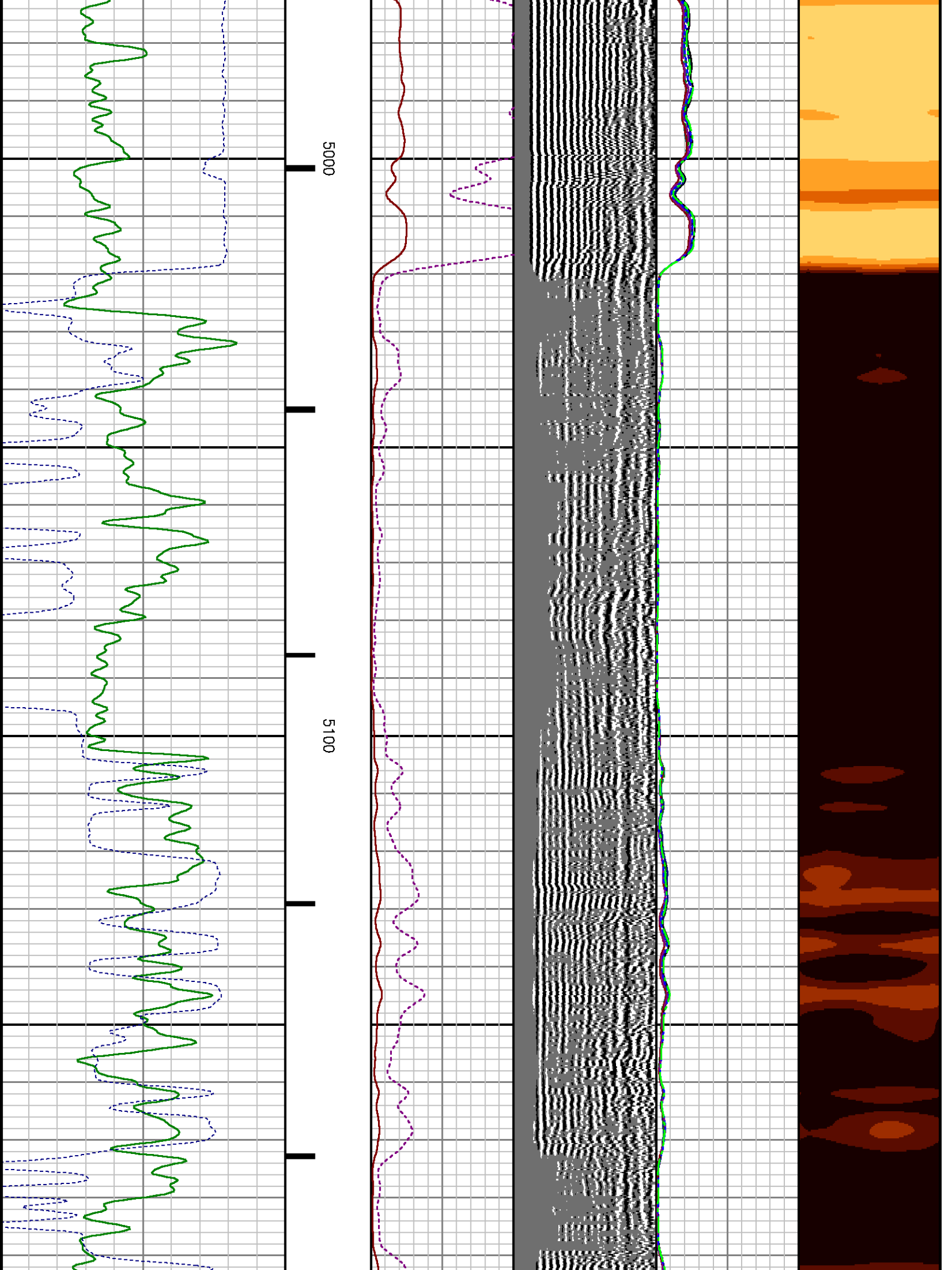


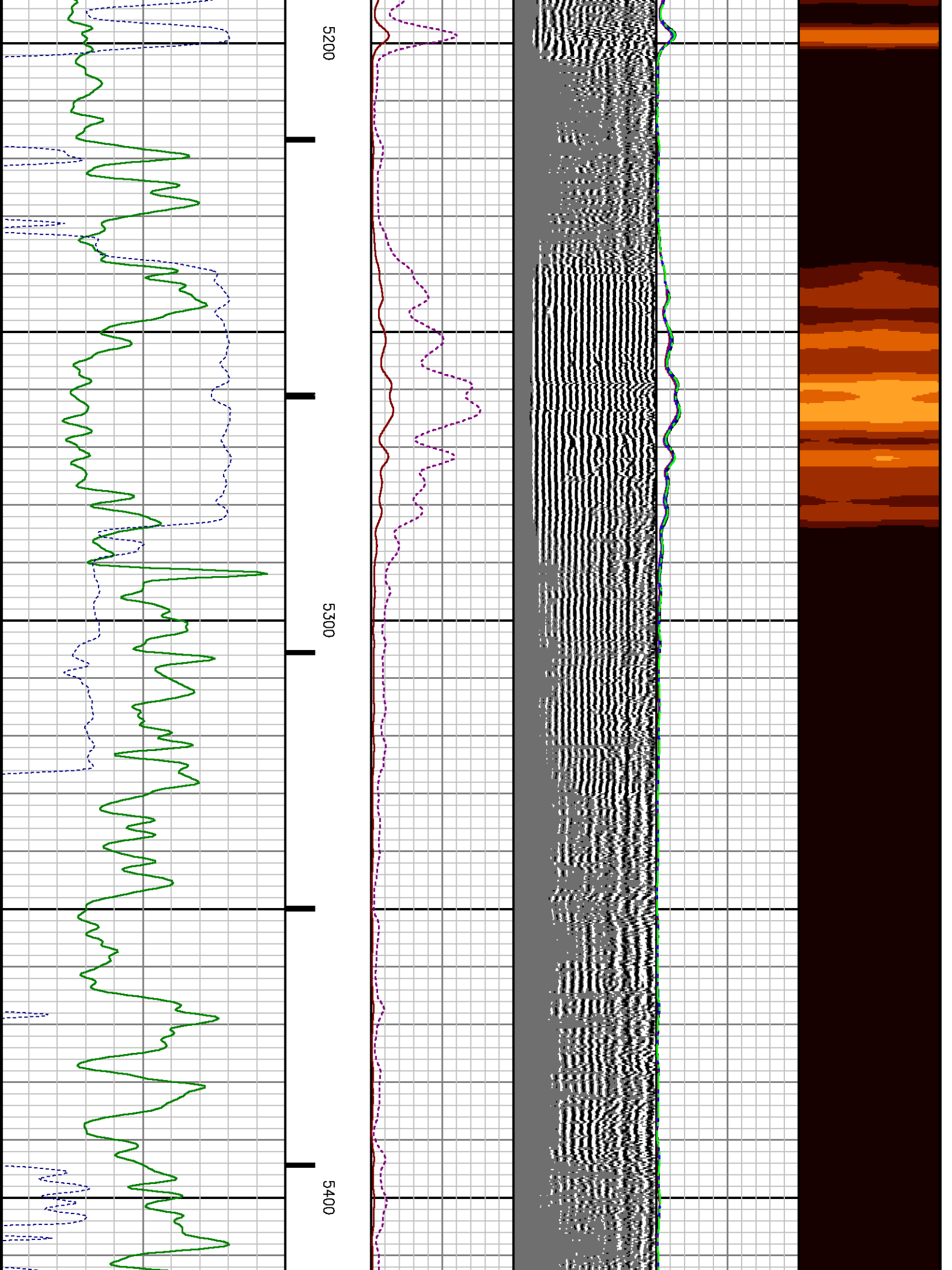


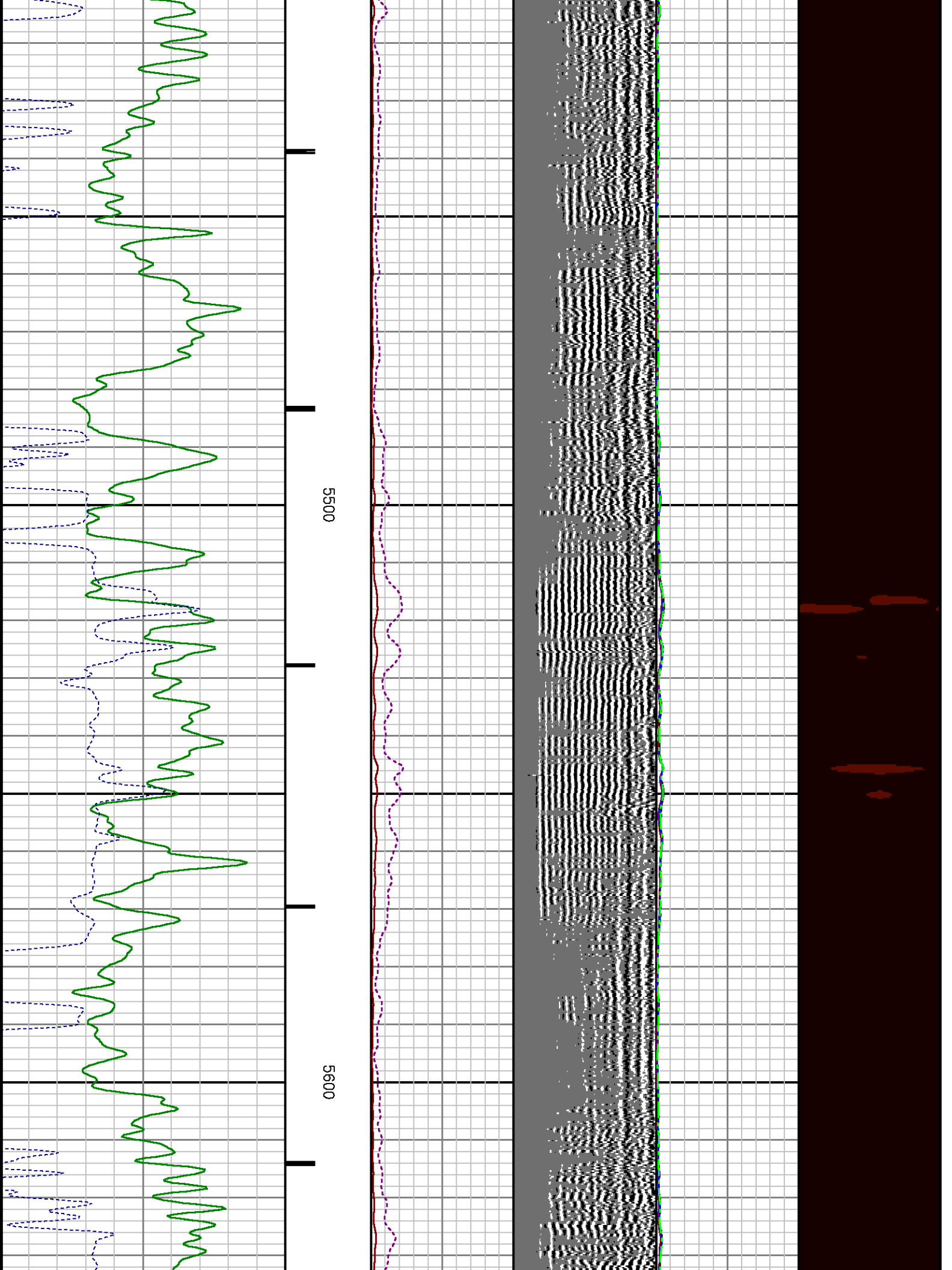


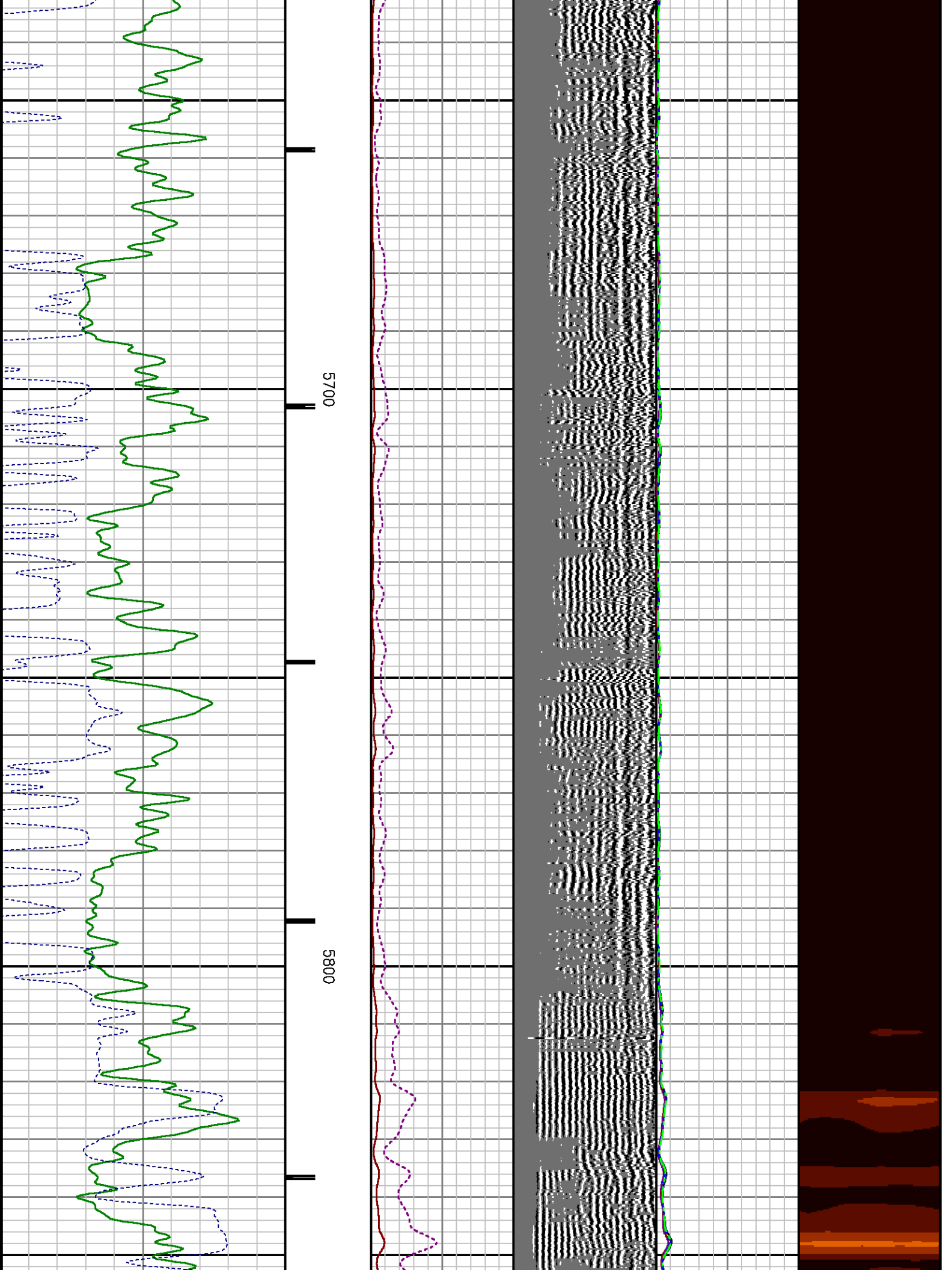


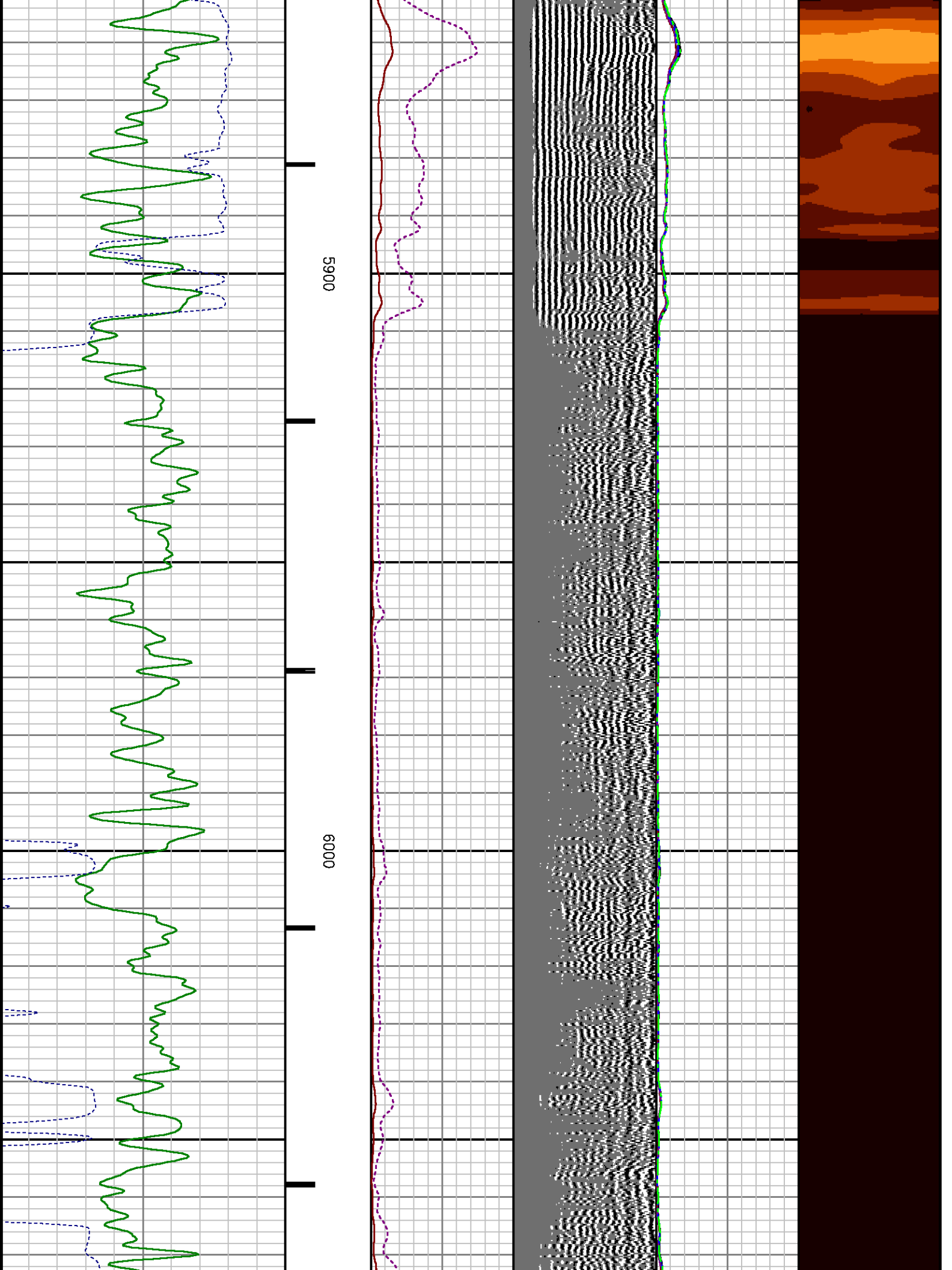




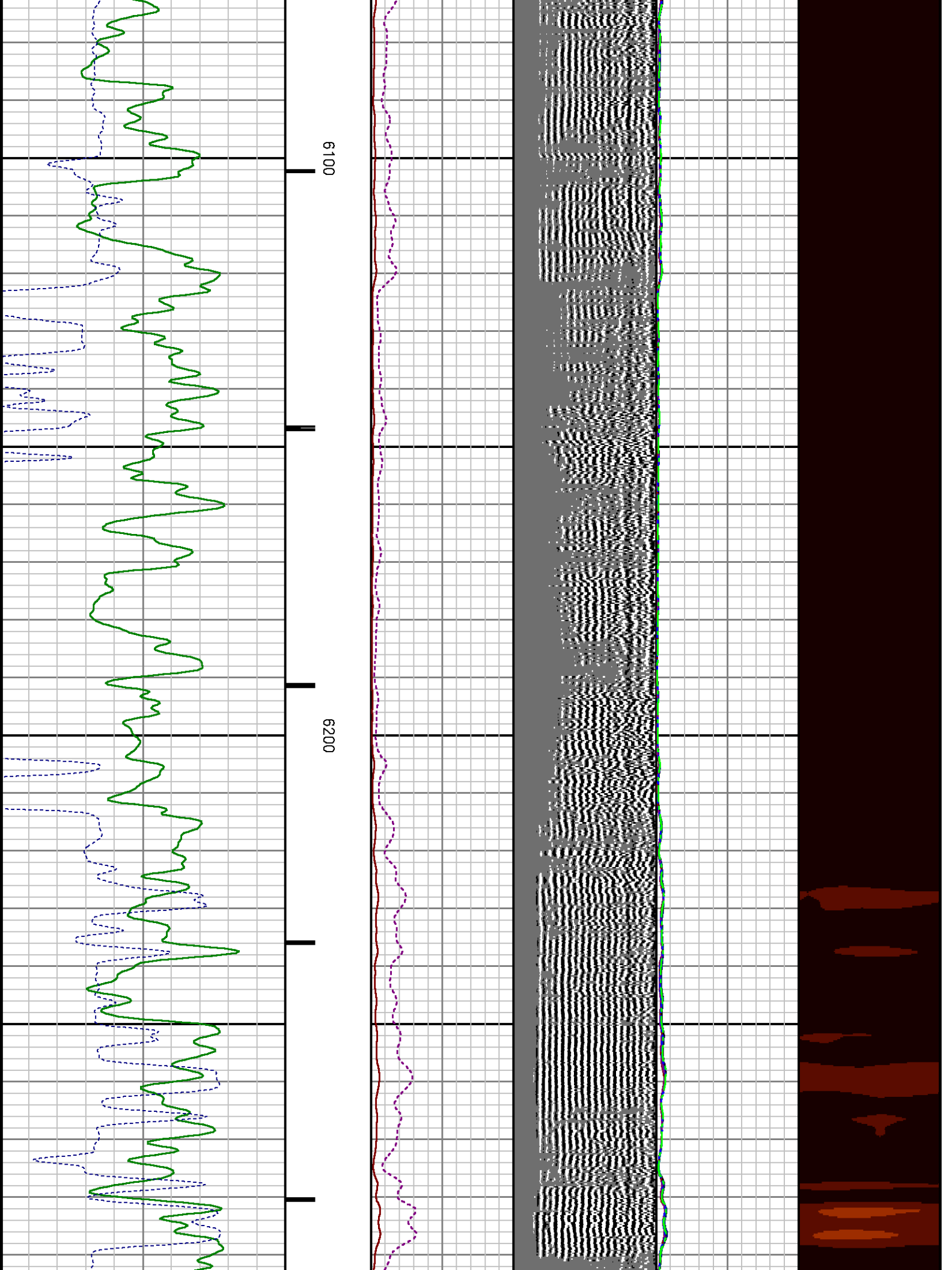


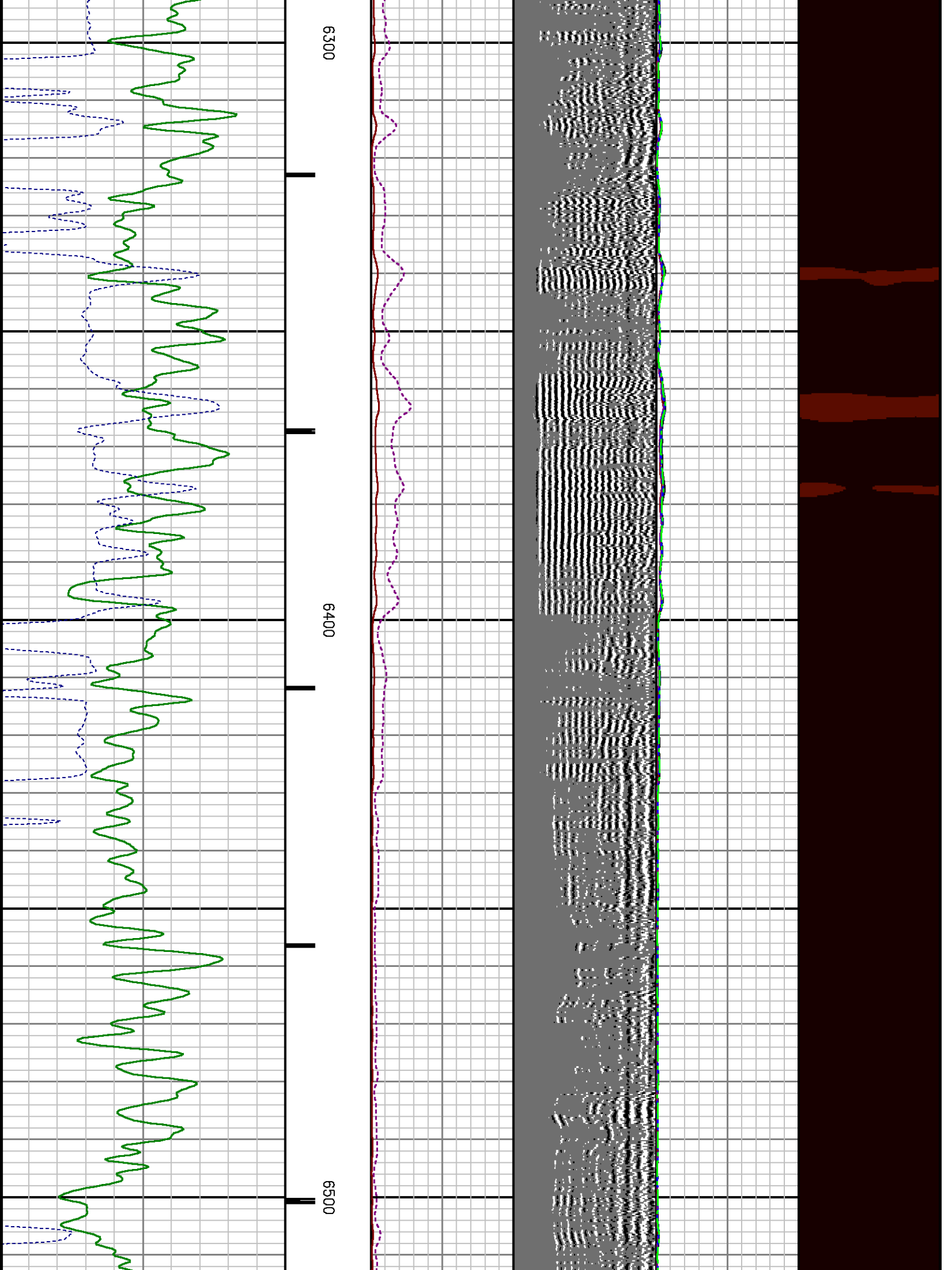


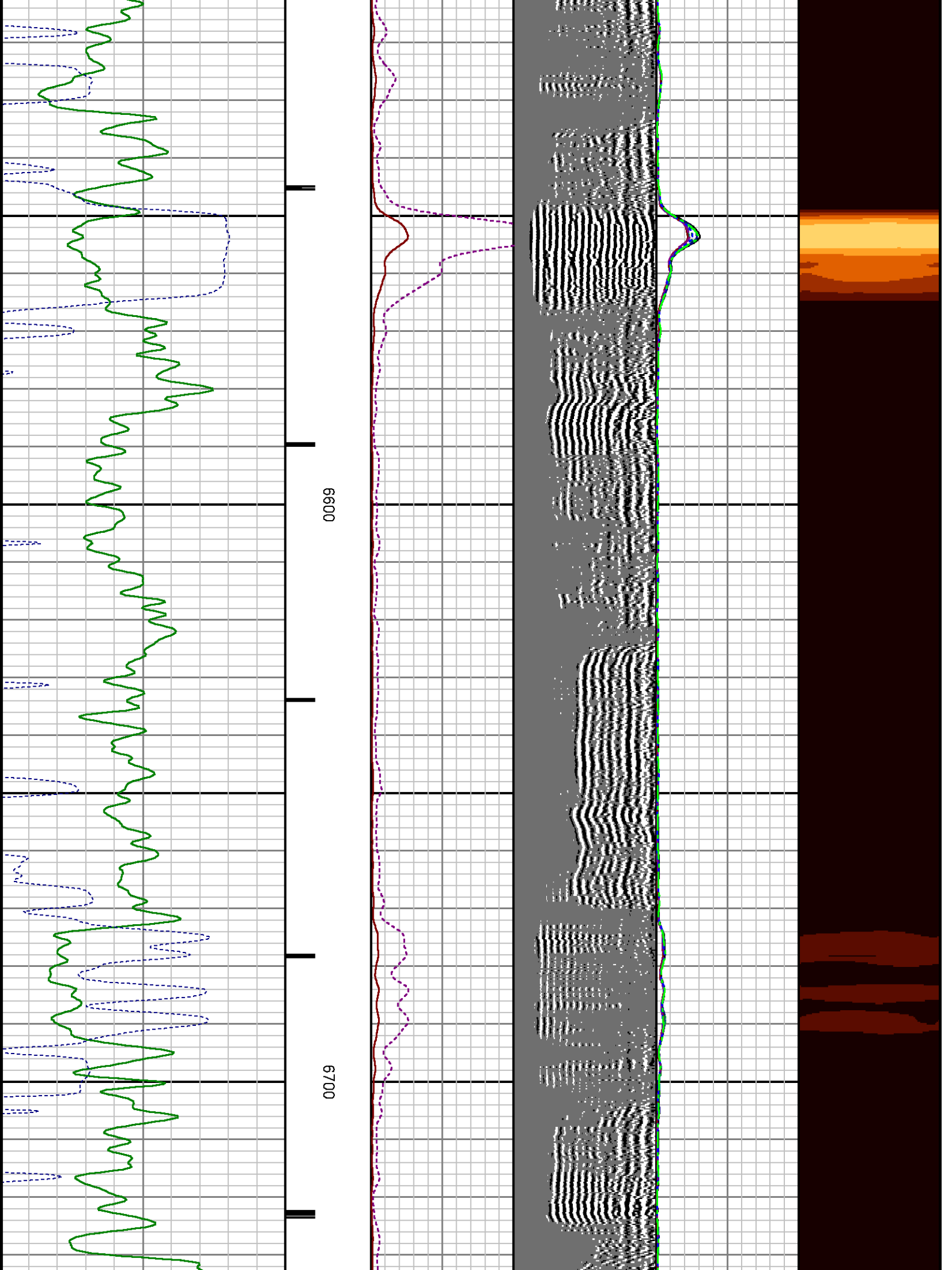


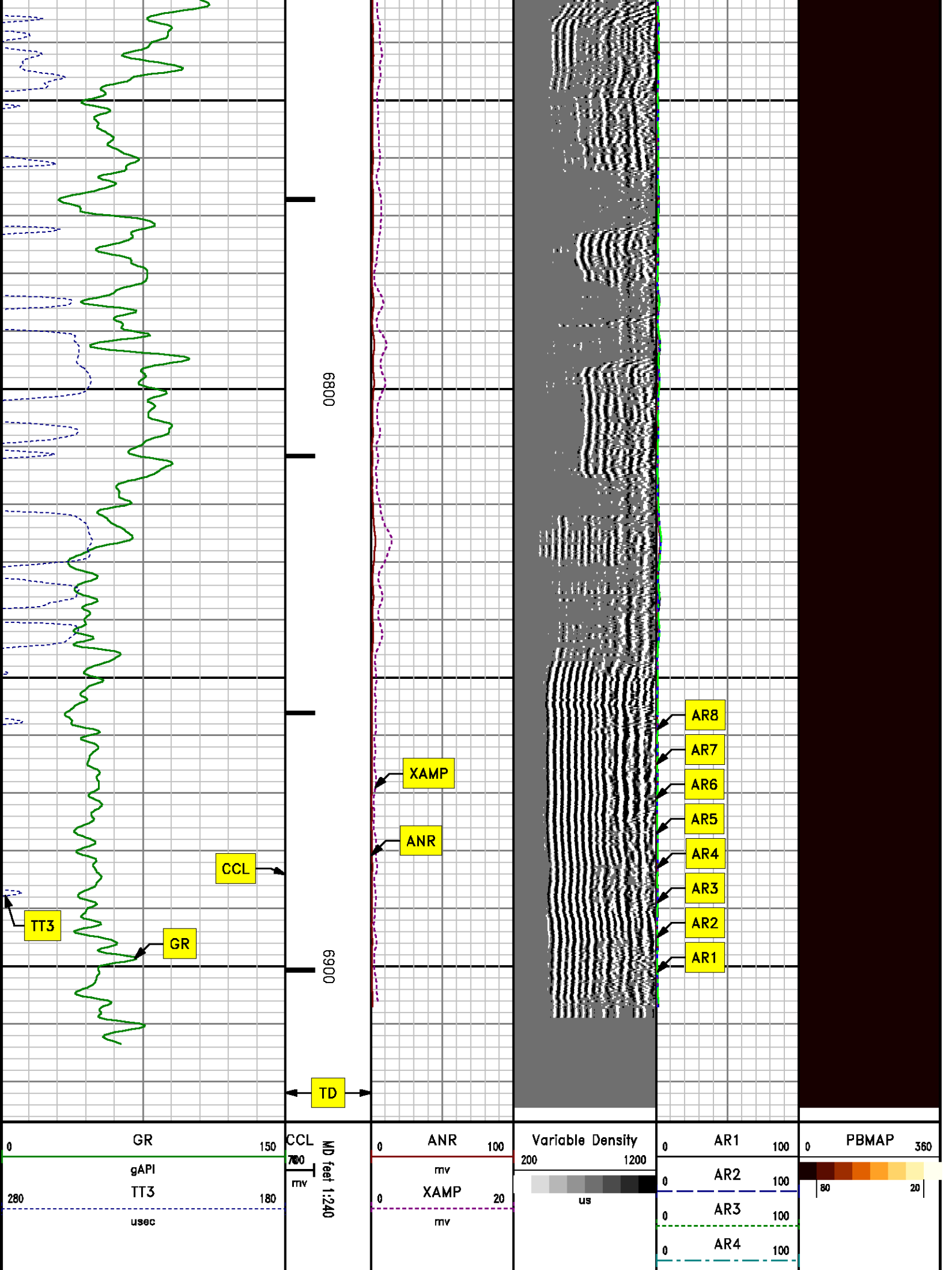












				0	AR5	100
				0	AR6	100
				0	AR7	100
				0	AR8	100

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

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	6594.910	6921.910
RAL	Amp Gate Start Near	195.000	usec	6594.910	6921.910
RAL	Amp Gate Start Radial	195.000	usec	6594.910	6921.910
RAL	Amp Gate Width Far	25.000	usec	6594.910	6921.910
RAL	Amp Gate Width Near	25.000	usec	6594.910	6921.910
RAL	Amp Gate Width Radial	25.000	usec	6594.910	6921.910
RAL	casing od	4.500	inches	6594.910	6921.910
RAL	casing wt	11.600	lbm/ft	6594.910	6921.910
RAL	FB Start Far	291.900	usec	6594.910	6921.910
RAL	FB Start Near	175.391	usec	6594.910	6921.910
RAL	FB Start Radial	175.391	usec	6594.910	6921.910
RAL	FB Thresh Far	10.000	mv	6594.910	6921.910
RAL	FB Thresh Near	4.000	mv	6594.910	6921.910
RAL	FB Thresh Radial	4.000	mv	6594.910	6921.910
RAL	Fluid Travel Time	200.000	usec/ft	6594.910	6922.879

## **DEPTH OFFSETS** (for Acquired Curves)

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



2459XA	-11.340	CCL
2459XA	-9.490	GR
2459XA	-4.090	NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

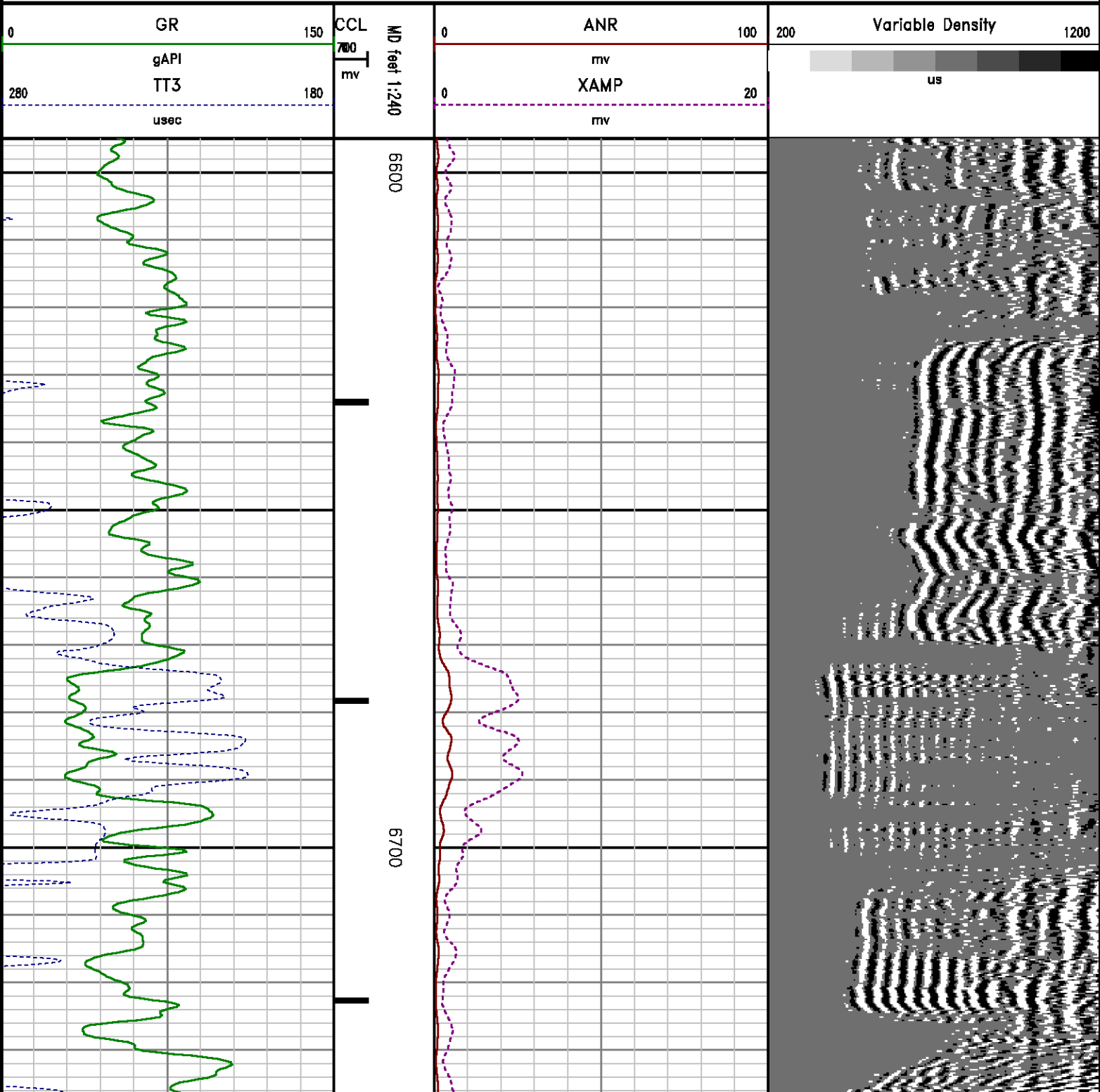
Well : PA 323-6

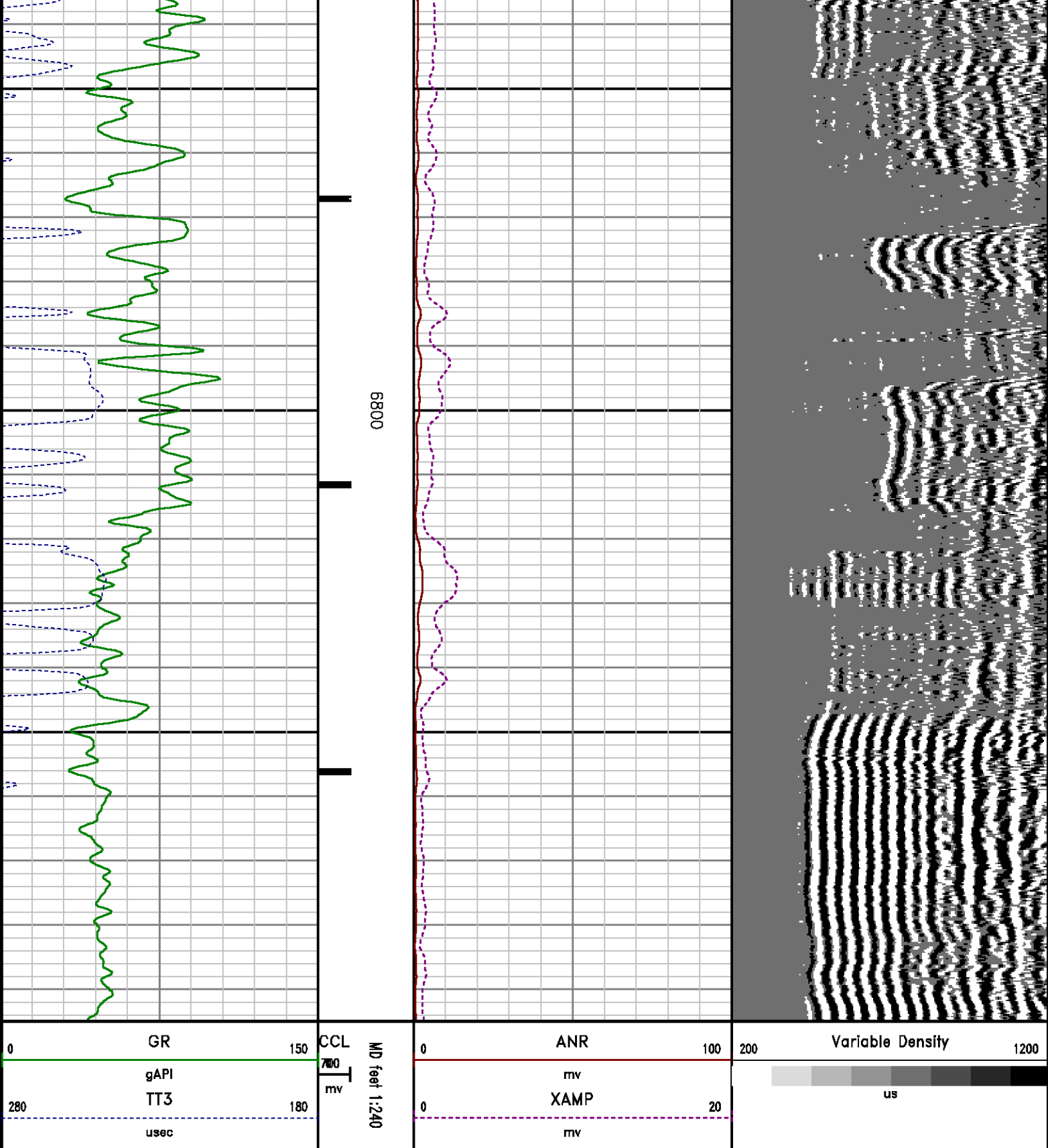
File Name : d:\welldata\wpx\pa 323-6\323cbl\repeat2.xtf

Mode : PlotMgr 5.4.504

Interval : 6595.00 - 6895.00 feet UP

Created : 4/16/2014 9:50:39 PM





## CALIBRATION SUMMARY

# RALSHP

Shop Calibration: C:\case\calver\RALSHP\496A16\_shp.cal

## SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Apr 16 08:42:24 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A16

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

RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	0.458	100.00	0.31
3 Ft. Receiver	217	216	30	166	20	0.414	100.00	0.31
5 Ft. Receiver	327	325	30	267	25	1.035	150.00	0.35
Radial #1	217	216	30	166	25	0.865	100.00	0.31
Radial #2	218	216	30	166	25	1.151	100.00	0.31
Radial #3	217	216	30	166	25	0.611	100.00	0.31
Radial #4	218	216	30	166	25	1.274	100.00	0.31
Radial #5	217	216	30	166	25	1.486	100.00	0.31
Radial #6	217	216	30	166	25	2.024	100.00	0.31
Radial #7	216	216	30	166	25	0.995	100.00	0.30
Radial #8	217	216	30	166	25	0.990	100.00	0.30

# RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496A16 fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Apr 16 11:12:38 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: A16

Tool Delay [usec] -56.00 Casing OD in 4.50 Casing Wt lbm/ft 11.60 Casing ID in 4.00

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.021	0.000	1.95	100.000
3 Ft. Receiver	195	25	1.220			
5 Ft. Receiver	305	25	1.503			
Radial #1	195	25	0.842			
Radial #2	195	25	0.887			
Radial #3	195	25	0.990			
Radial #4	195	25	1.031			
Radial #5	195	25	1.184			
Radial #6	195	25	1.224			
Radial #7	195	25	0.965			
Radial #8	195	25	0.957			

# GAMMA RAY

Calibration File: C:\case\calver\GR\456A3.cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED:	Thu Apr 03 13:37:28 2014	TOOL SERIES:	2459XA	ASSET:	456	SEQ:	A3
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
S2K WA612	76.84	356.71	0.661	50.80	235.80	185.00	

Verification File: C:\case\calver\GR\456A3.VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED:	Thu Apr 03 13:38:35 2014	TOOL SERIES:	2459XA	ASSET:	456	SEQ:	A3
Calibrator #	Background	Calibrator On	Multiplicative	Background	Calibrator On	Differential	
	[cps]	[cps]		[api]	[api]	[api]	
S2K WA612	80.98	351.78	0.661	53.53	232.54	179.01	

# TOOL DIAGRAM

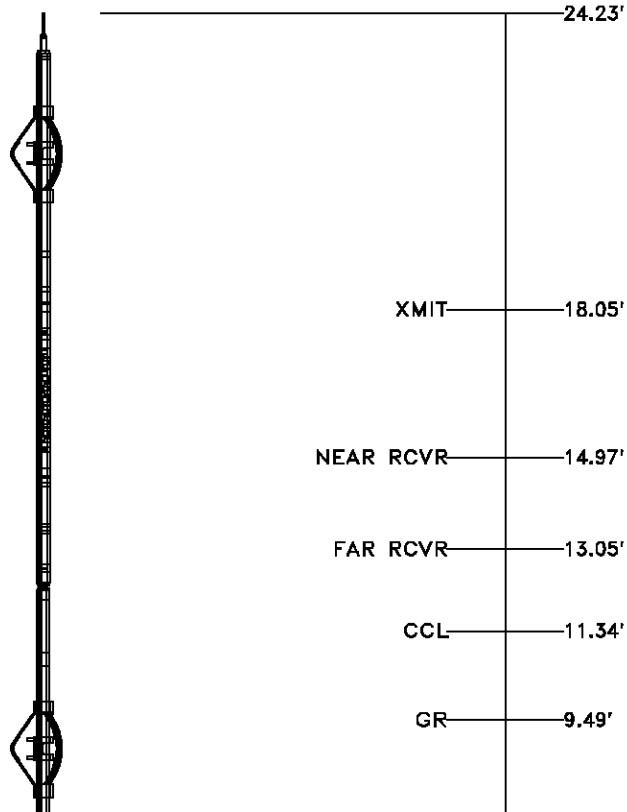
OTA SHORT CABLE HEAD

### 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	9.49'



Length	3.42
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL

NEU 4.09'

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

0.00'

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



Baker Atlas

CASE

Company Well Field County	WPX ENERGY		File No:
	PA 323-6		CH084822
	PARACHUTE		API No:
	GARFIELD	State	CO
Location		Elevations	
SHL: 736' FSL & 760' FWL		KB 5179 ft	6 7S 95W
BHL: 2078' FSL & 1808' FWL		DF	PA 14-6 PAD
		GL 5153 ft	NABORS 574
SEC 6	TWP 7S	RGE 95W	