



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH057340	Company Well Field County	WPX ENERGY FEDERAL KP 314-18 KOKOPELLI GARFIELD	State COLORADO
API No: 05045206350000			
Location 18-T6S-R91W KP 34-18 pod NABORS 574	SHL: 726' FSL x 1960' FEL BHL: 858' FSL x 614' FWL SEC 18 TWP 6S RGE 91W	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 5944 ft K.B. _____ 26 ft Above P. D. KELLY BUSHING	Elevations KB 5944 ft DF NA GL 5918 ft	

Date	09 JULY 2012	
Run	ONE	
Service Order	574584	
Depth Driller	8156 ft	
Depth Logger	8076 ft	
Bottom Logged Interval	8066 ft	
Top Logged Interval	0 ft	
Time Started	900	
Time Finished	1200	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	FULL	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	200 degF	
Reference Log	NA	
Reference Log Date	NA	
Equipment No.	4271	GRAND JUNCTION
Recorded By	JACOB STALEY	
Witnessed By	Jeff Brady	

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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	1315 ft
7.875 In	0 ft	8156 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	NA	NA	0 ft	1315 ft
4.5 In	NA	NA	0 ft	8156 ft

Remarks
ALL DATA WAS DEPTH SHIFTED TO PUT THE TOP CCL MARK ON DEPTH WITH GROUND LEVEL WITH A SHIFT OF +13 FT
LOGGED WITH 0 PSI AT WELLHEAD
BHT = 200 DEG F
SJ = 4540' - 4560'

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1428XA	10183028	CENT
1	1	GR/CCL	2459XA	10218503	CENT

PRIMARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	308.607	usec	34.312	6193.000
RAL	Amp Gate Start Near	200.000	usec	34.312	6193.000
RAL	Amp Gate Start Radial	201.648	usec	34.312	6193.000
RAL	Amp Gate Width Far	25.000	usec	34.312	6193.000
RAL	Amp Gate Width Near	25.000	usec	34.312	6193.000
RAL	Amp Gate Width Radial	25.000	usec	34.312	6193.000
RAL	casing od	4.500	inches	34.312	6193.000
RAL	casing wt	11.600	lbm/ft	34.312	6193.000
RAL	FB Start Far	291.900	usec	34.312	6193.000
RAL	FB Start Near	175.391	usec	34.312	6193.000
RAL	FB Start Radial	175.391	usec	34.312	6193.000
RAL	FB Thresh Far	10.000	mv	34.312	6193.000
RAL	FB Thresh Near	4.000	mv	34.312	6193.000
RAL	FB Thresh Radial	4.000	mv	34.312	6193.000
RAL	Fluid Travel Time	200.000	usec/ft	34.312	6193.000
RAL	Amp Gate Start Far	308.607	usec	6193.000	8097.000
RAL	Amp Gate Start Near	200.000	usec	6193.000	8097.000
RAL	Amp Gate Start Radial	201.648	usec	6193.000	8097.000
RAL	Amp Gate Width Far	25.000	usec	6193.000	8097.000
RAL	Amp Gate Width Near	25.000	usec	6193.000	8097.000
RAL	Amp Gate Width Radial	25.000	usec	6193.000	8097.000
RAL	casing od	4.500	inches	6193.000	8097.000
RAL	casing wt	11.600	lbm/ft	6193.000	8097.000
RAL	FB Start Far	291.900	usec	6193.000	8097.000
RAL	FB Start Near	175.391	usec	6193.000	8097.000
RAL	FB Start Radial	175.391	usec	6193.000	8097.000
RAL	FB Thresh Far	10.000	mv	6193.000	8097.000
RAL	FB Thresh Near	4.000	mv	6193.000	8097.000
RAL	FB Thresh Radial	4.000	mv	6193.000	8097.000

RAL	FB Thresh Near	4.000	mv	6193.000	8097.000
RAL	FB Thresh Radial	4.000	mv	6193.000	8097.000
RAL	Fluid Travel Time	200.000	usec/ft	6193.000	8097.531

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

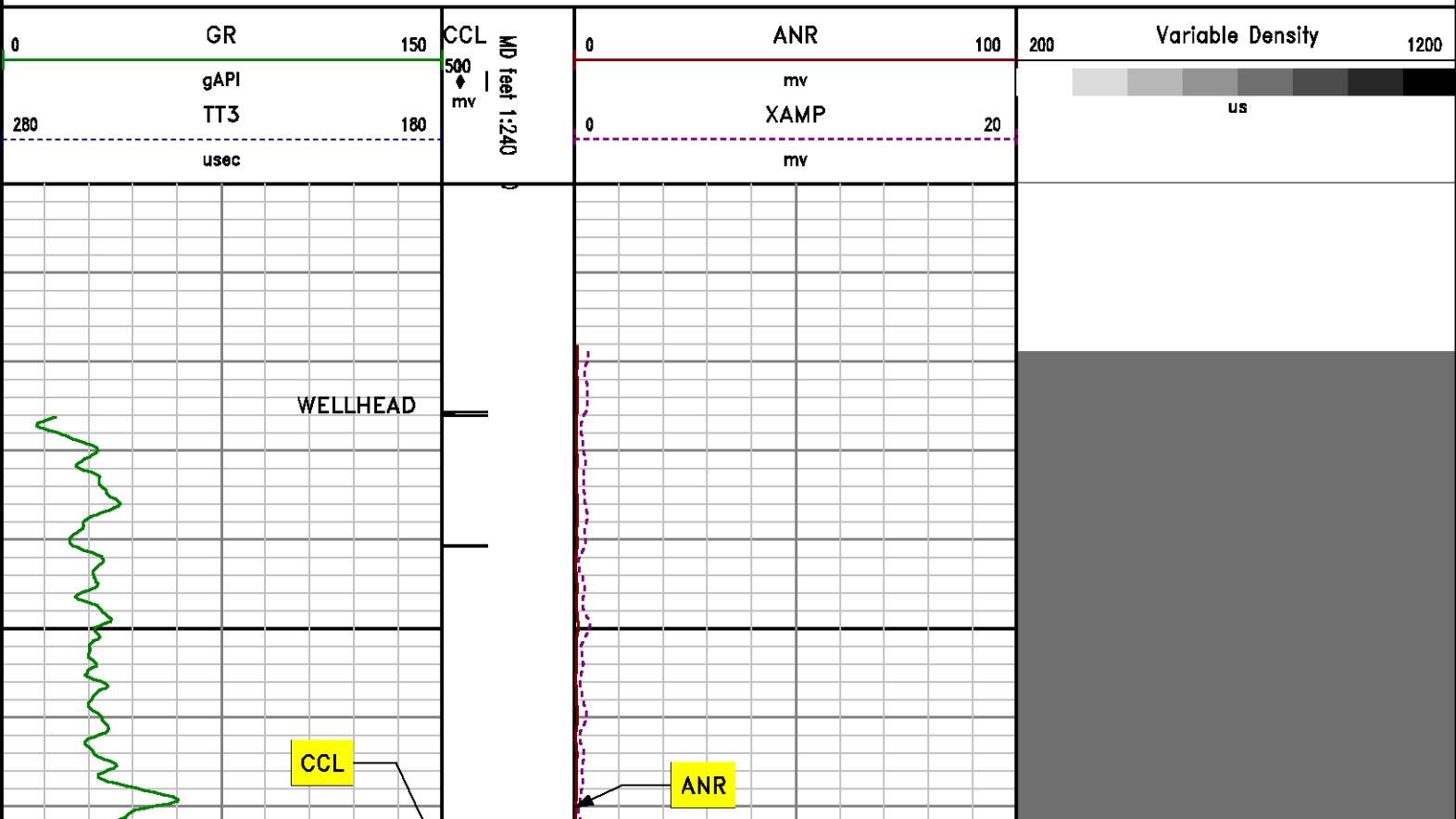
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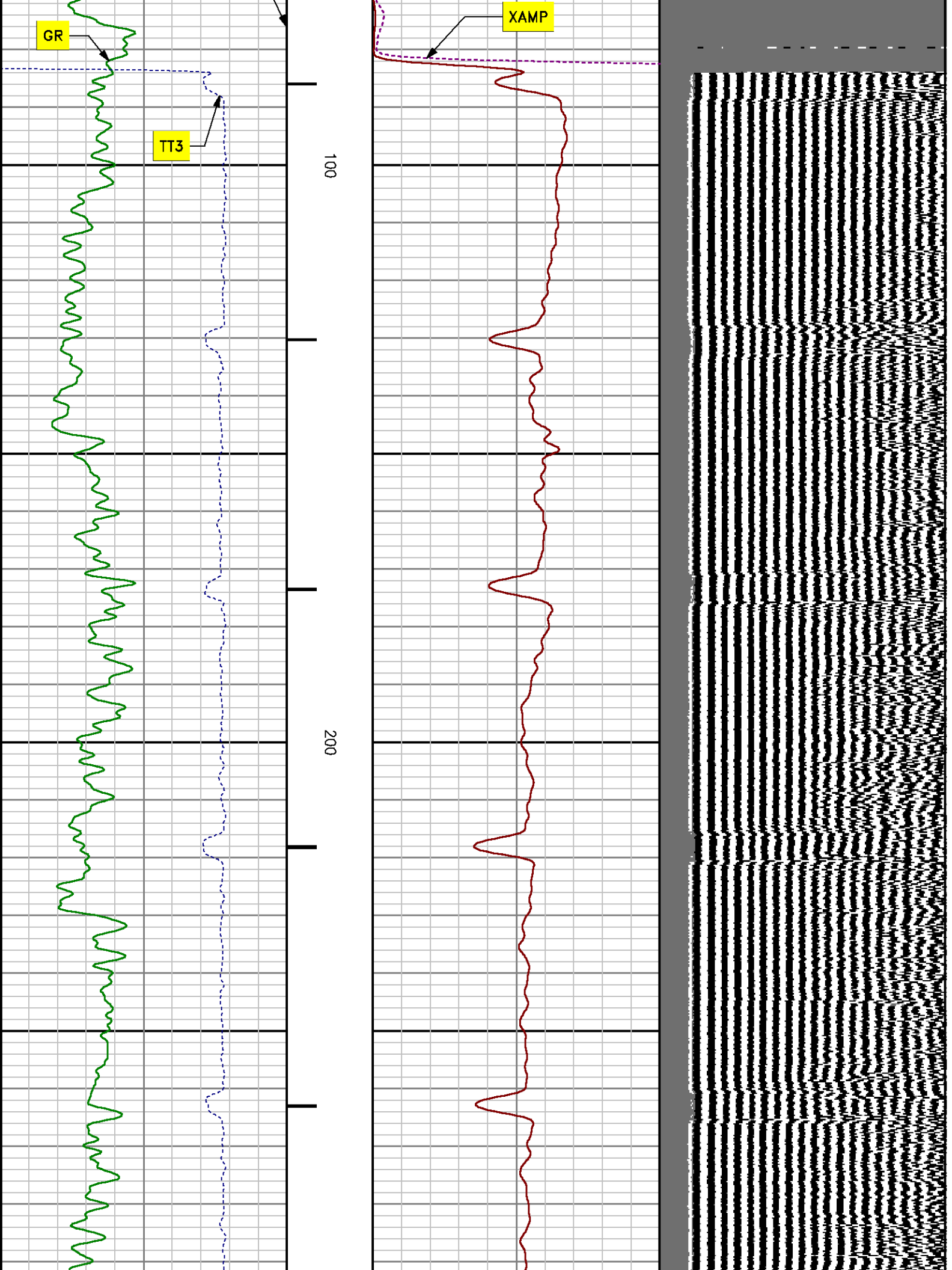
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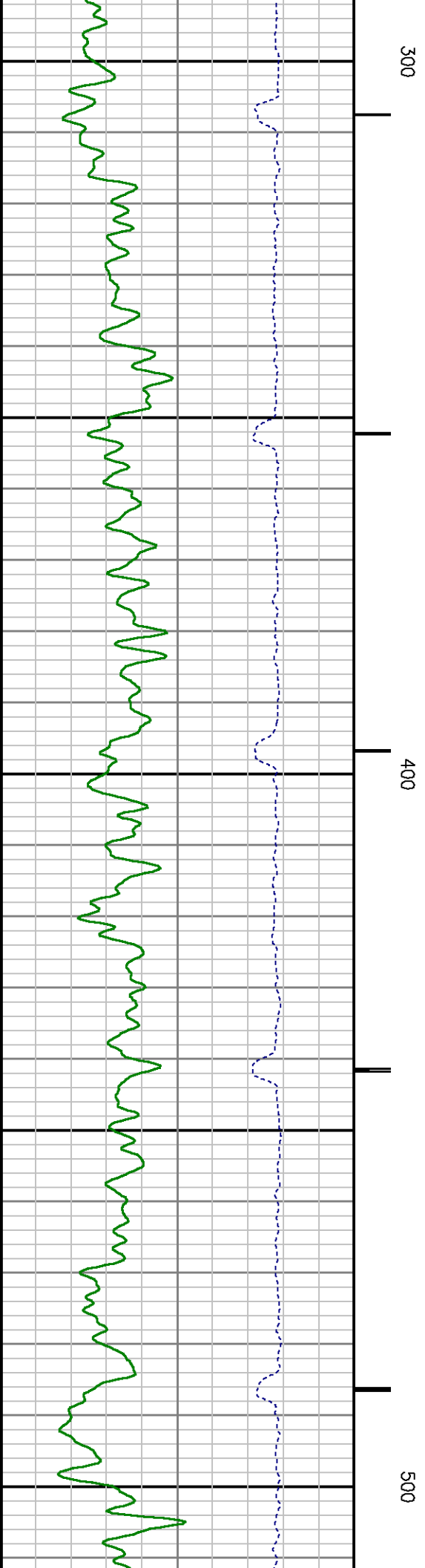
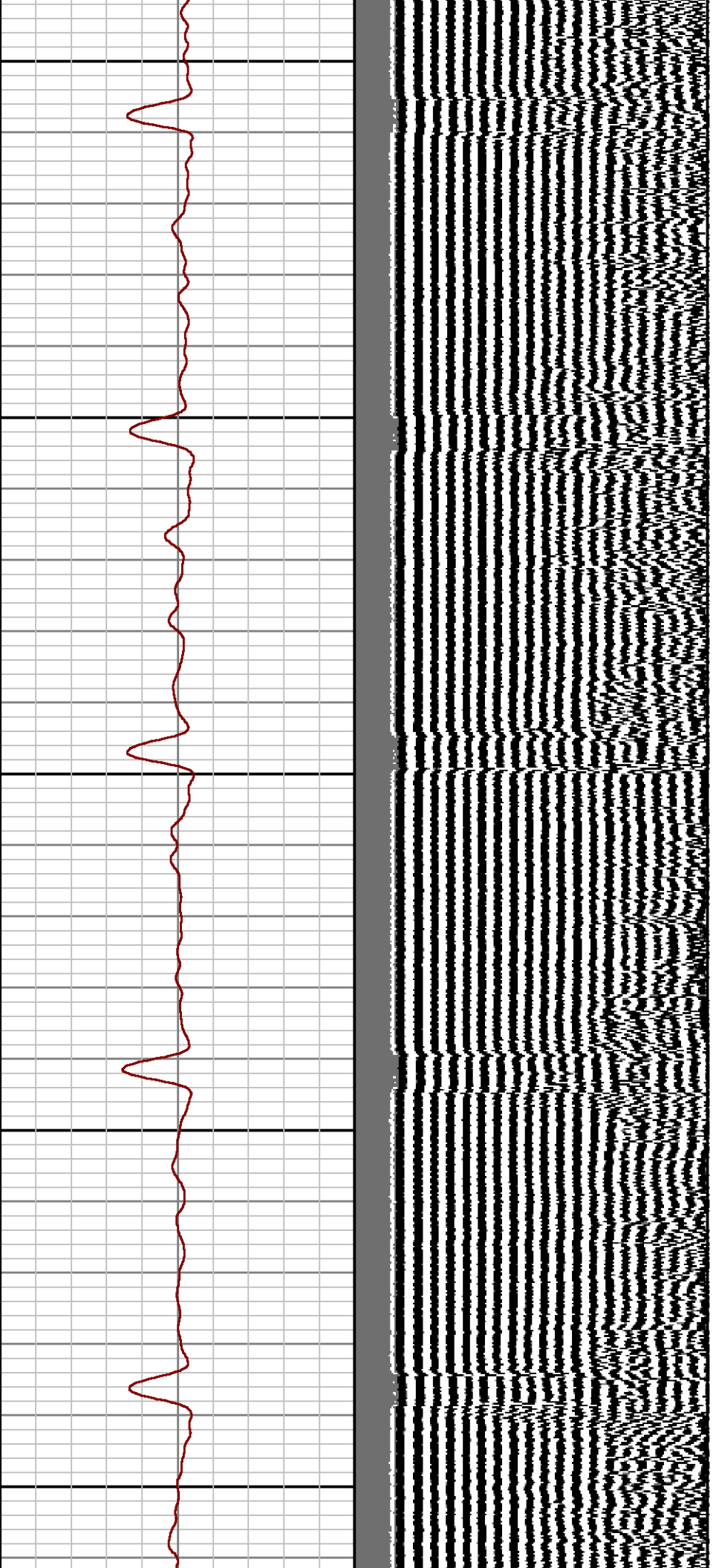
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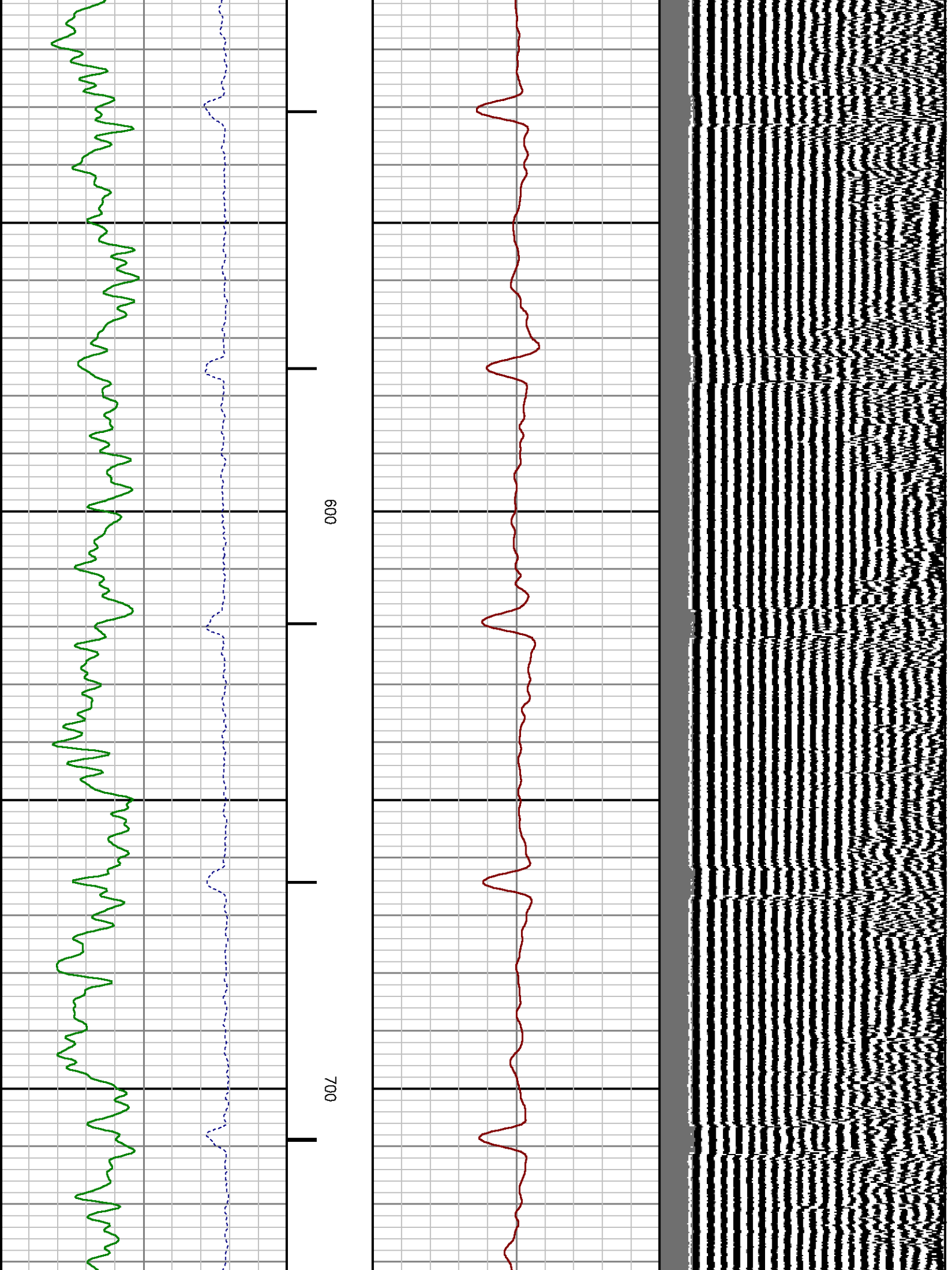
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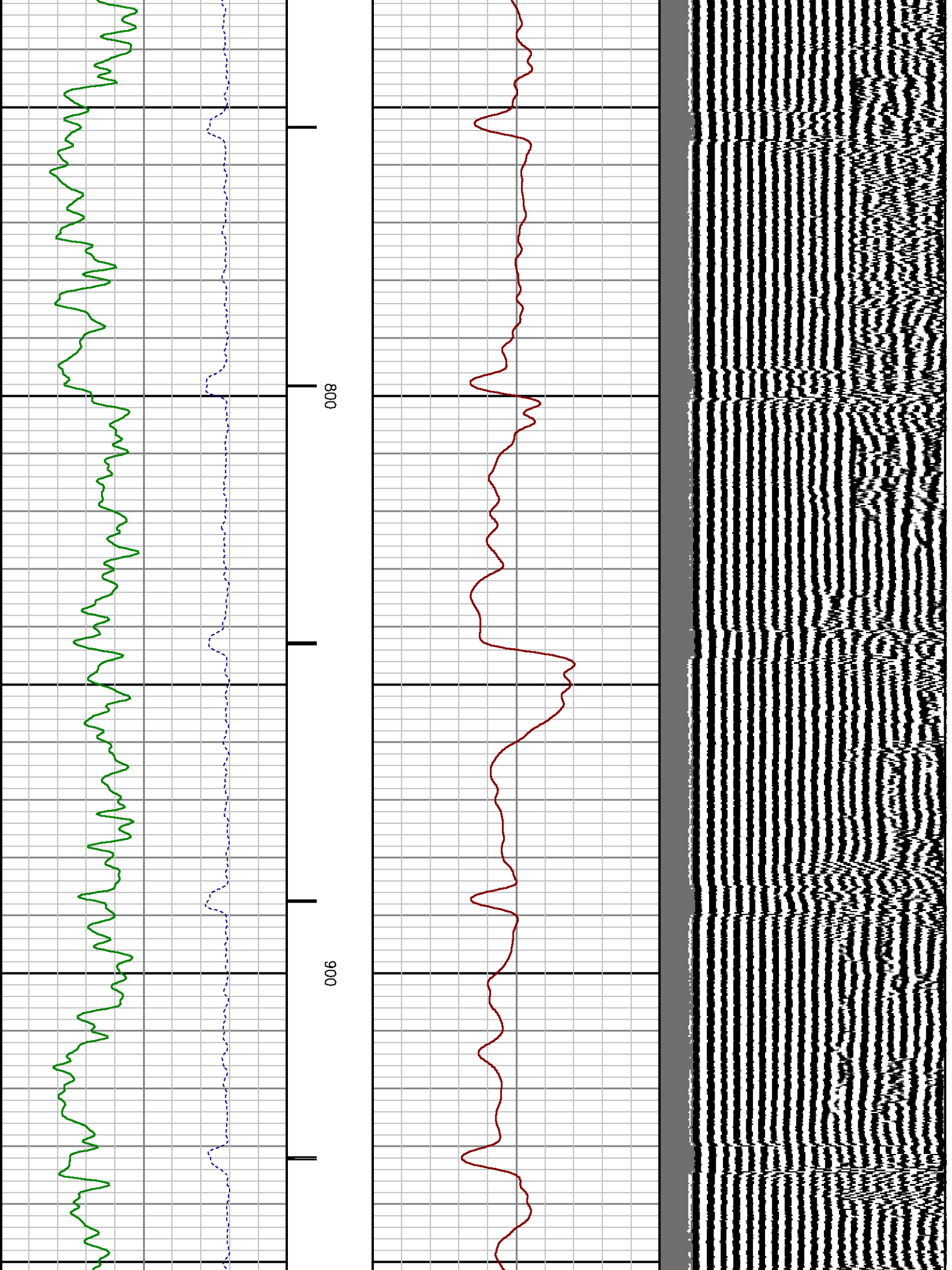
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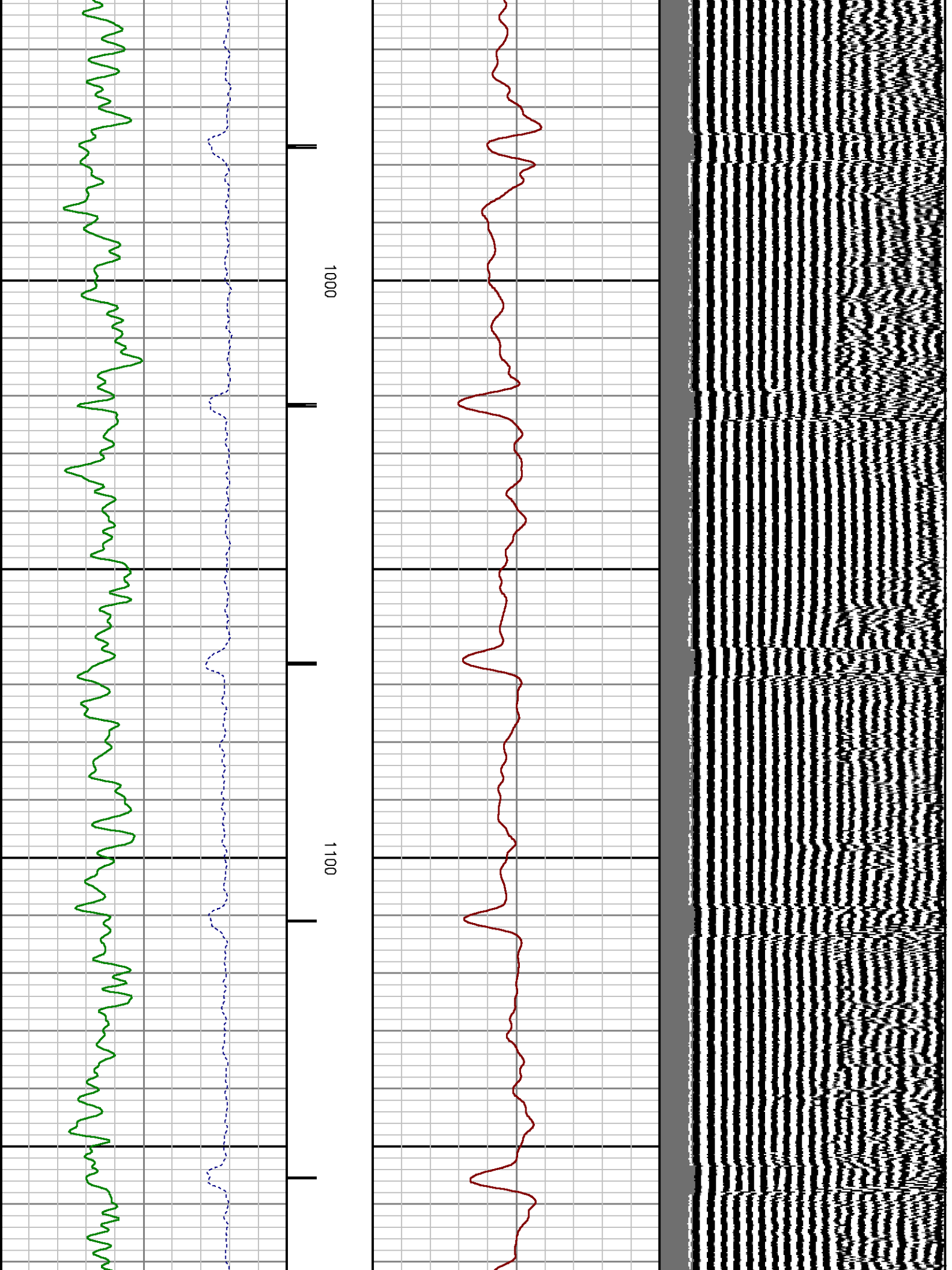


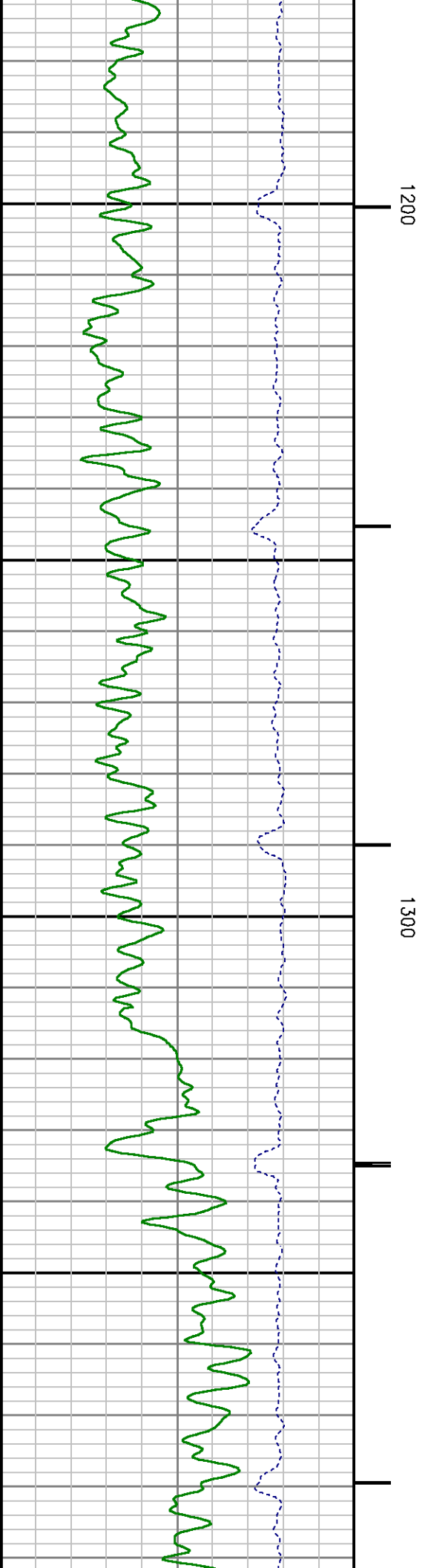
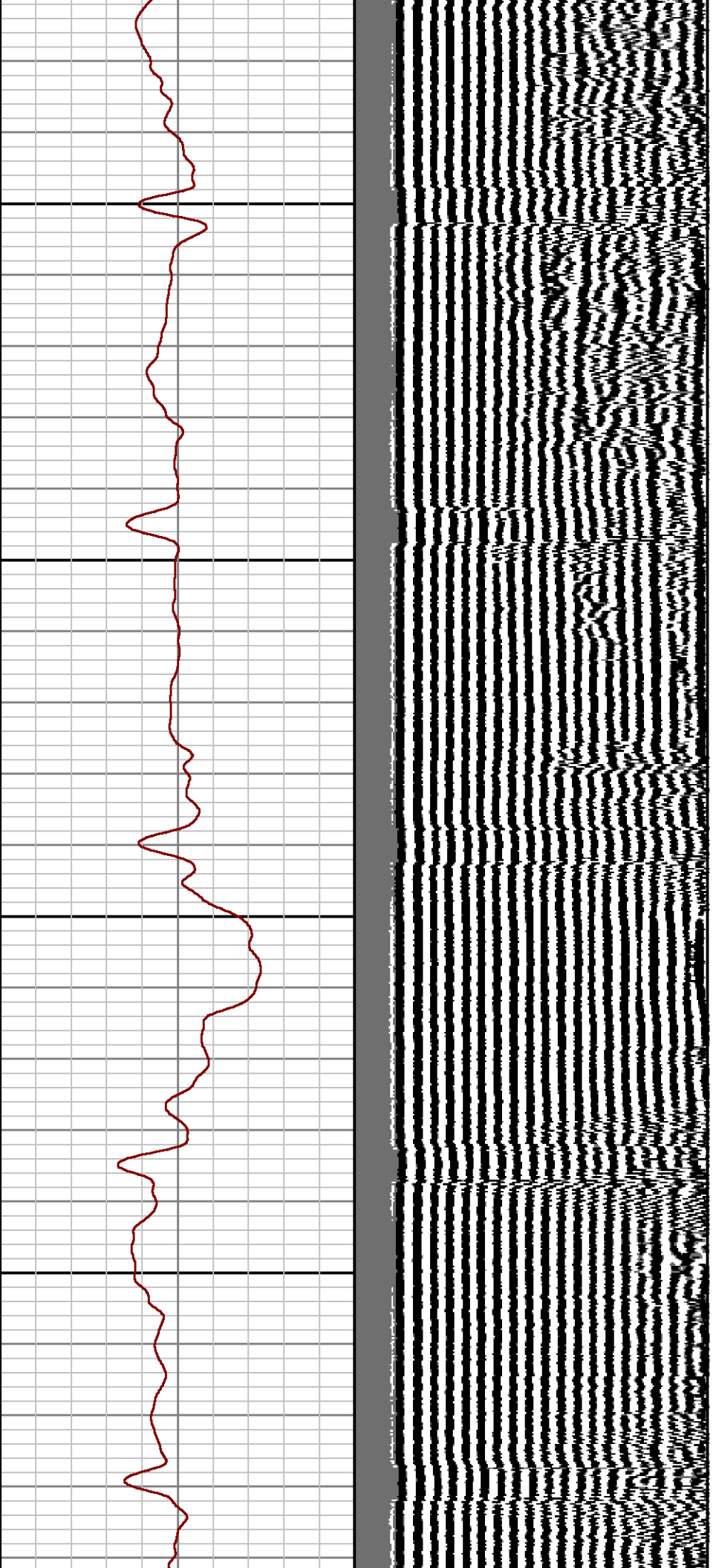


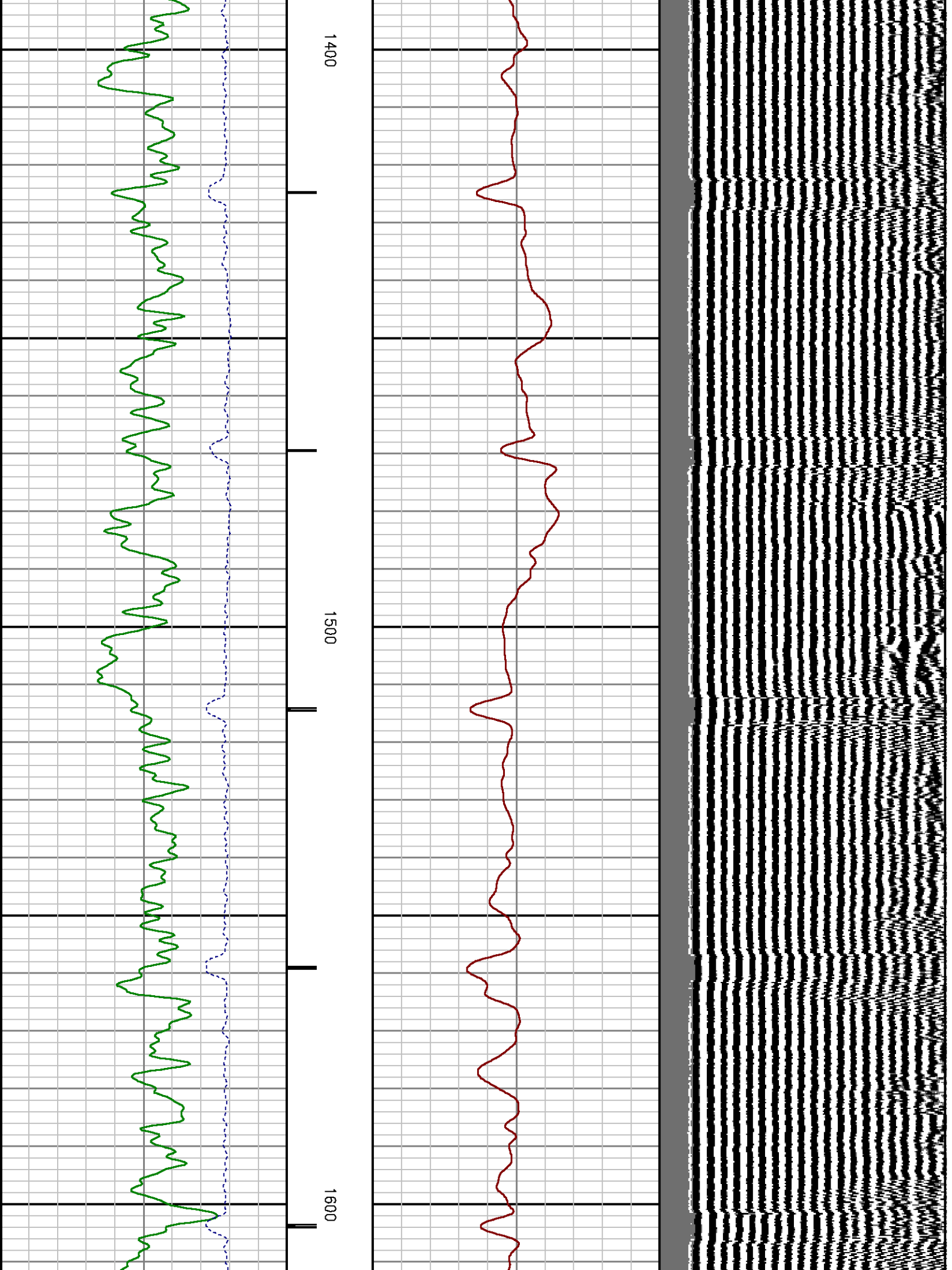


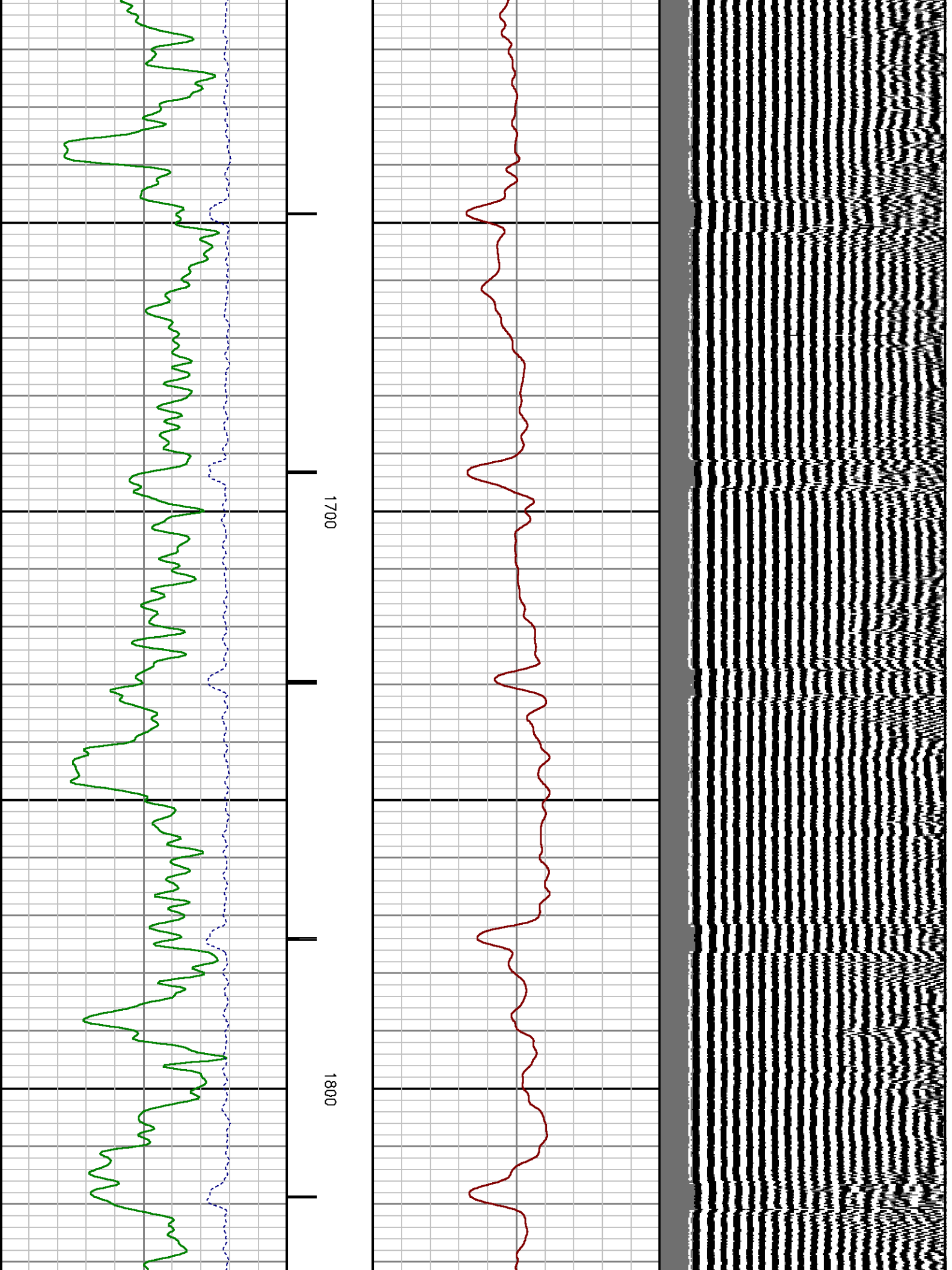


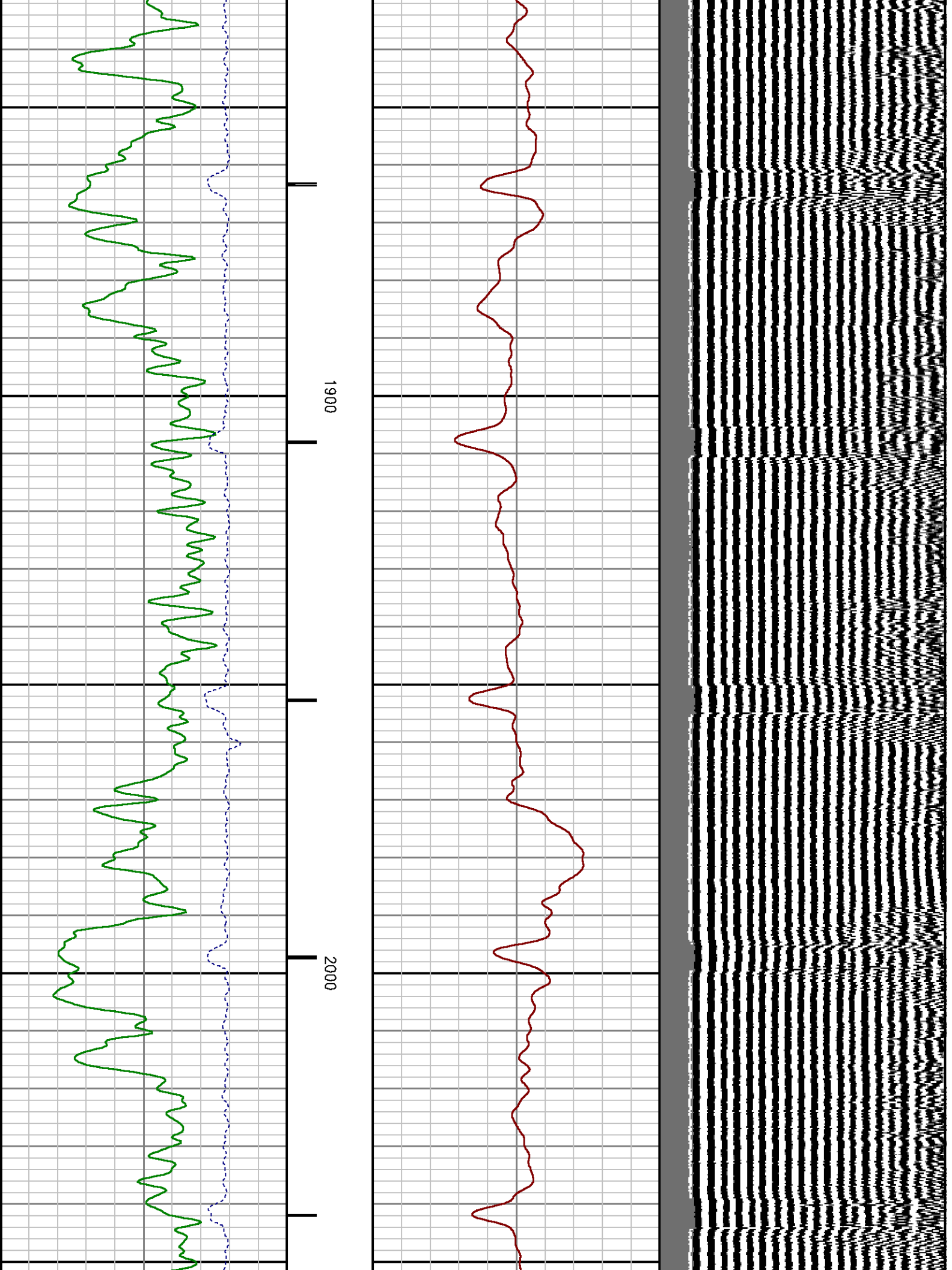


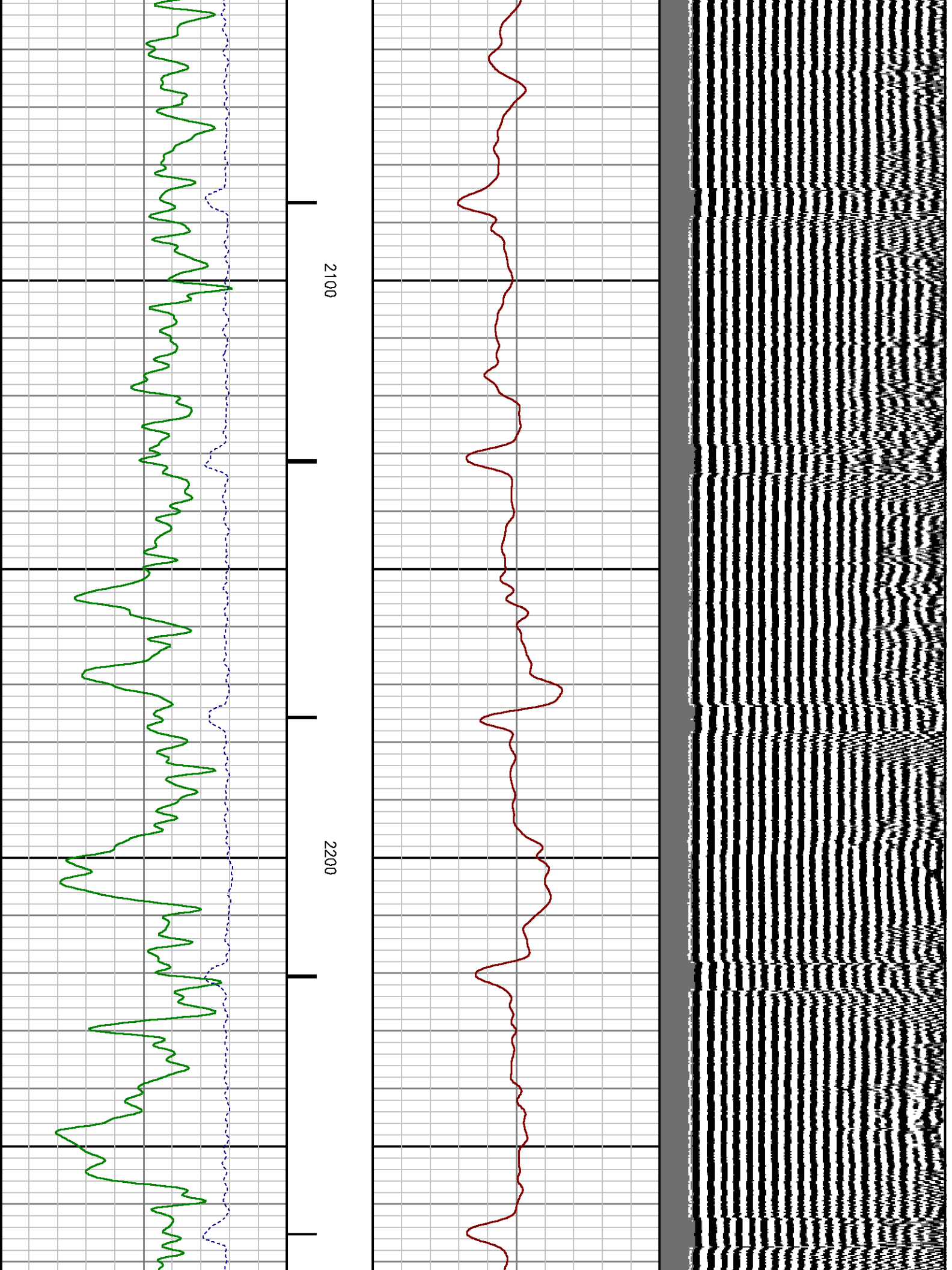


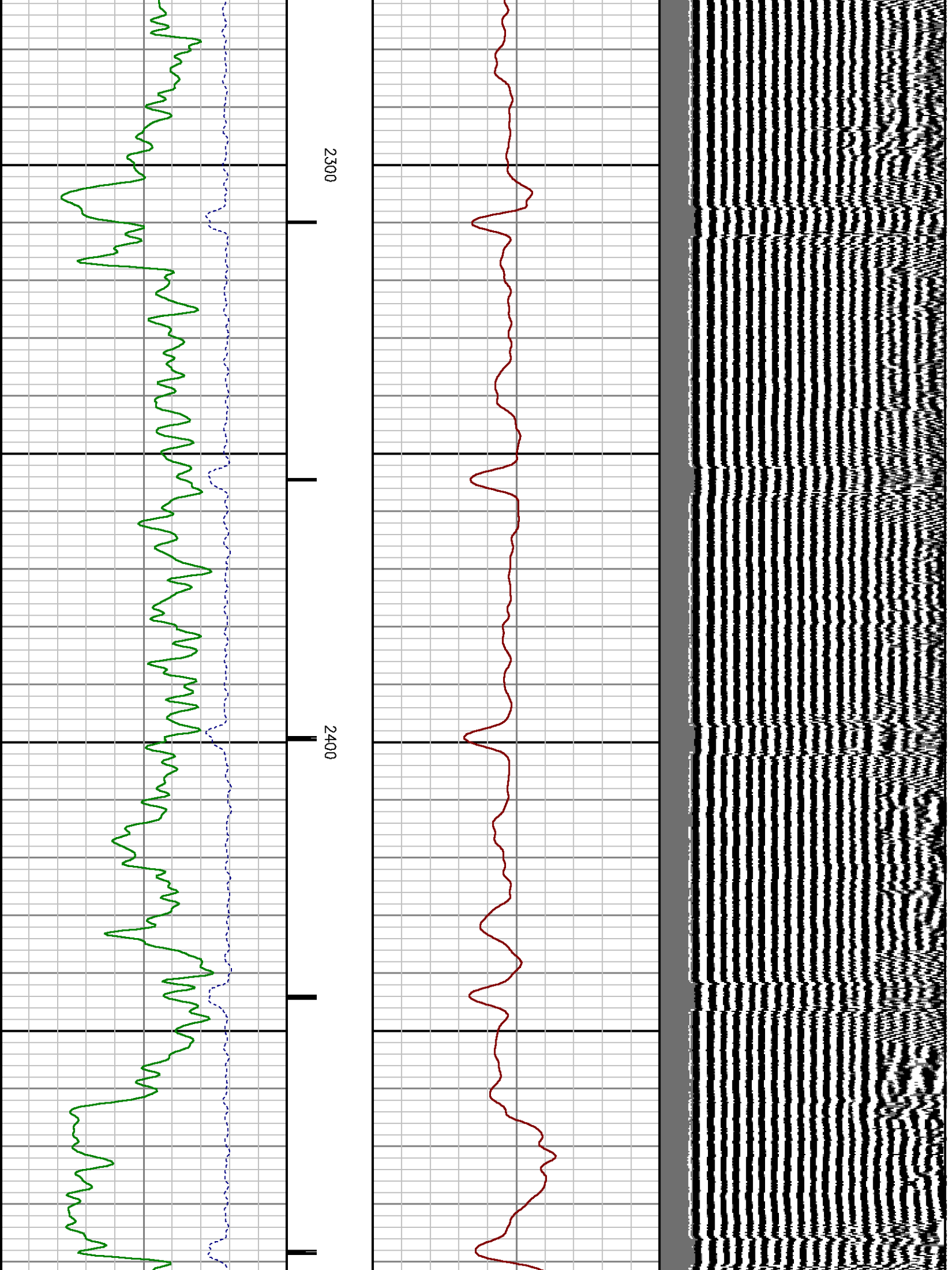


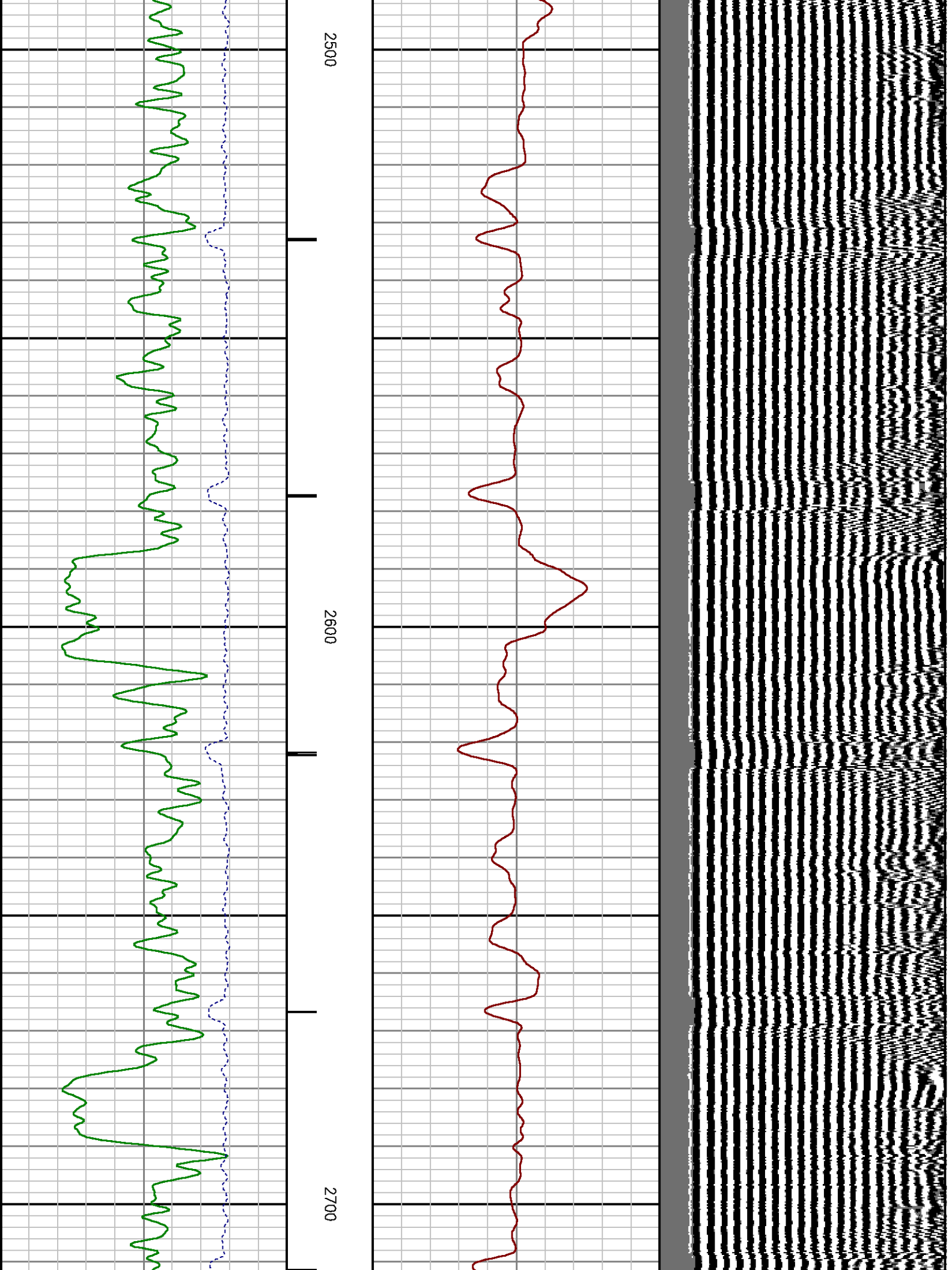


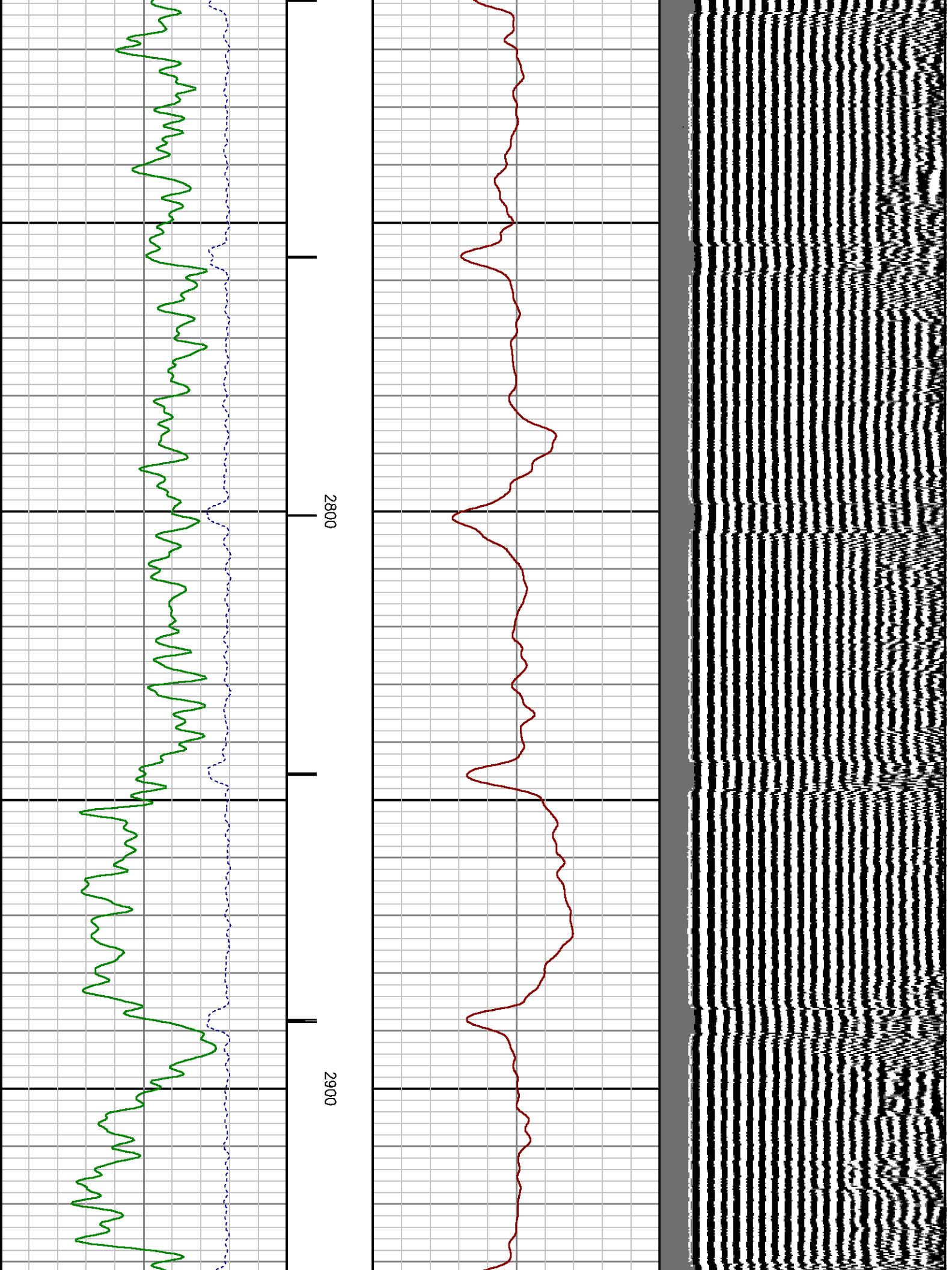


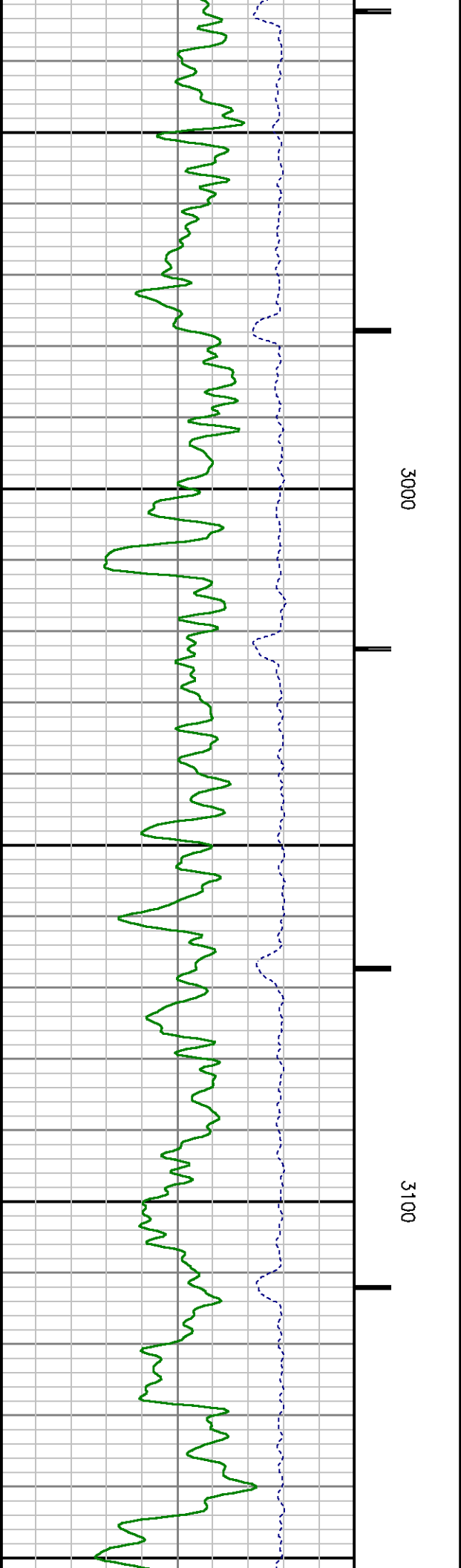
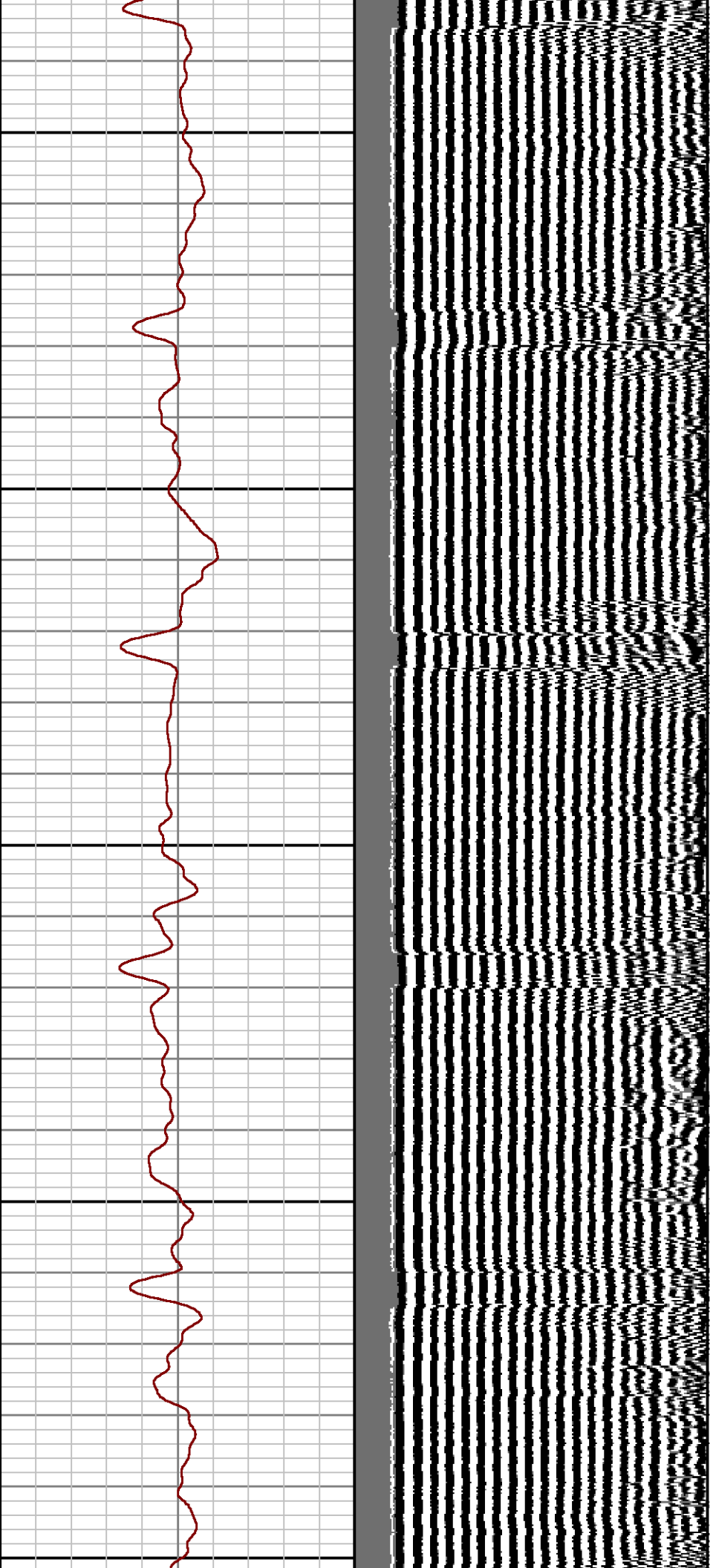


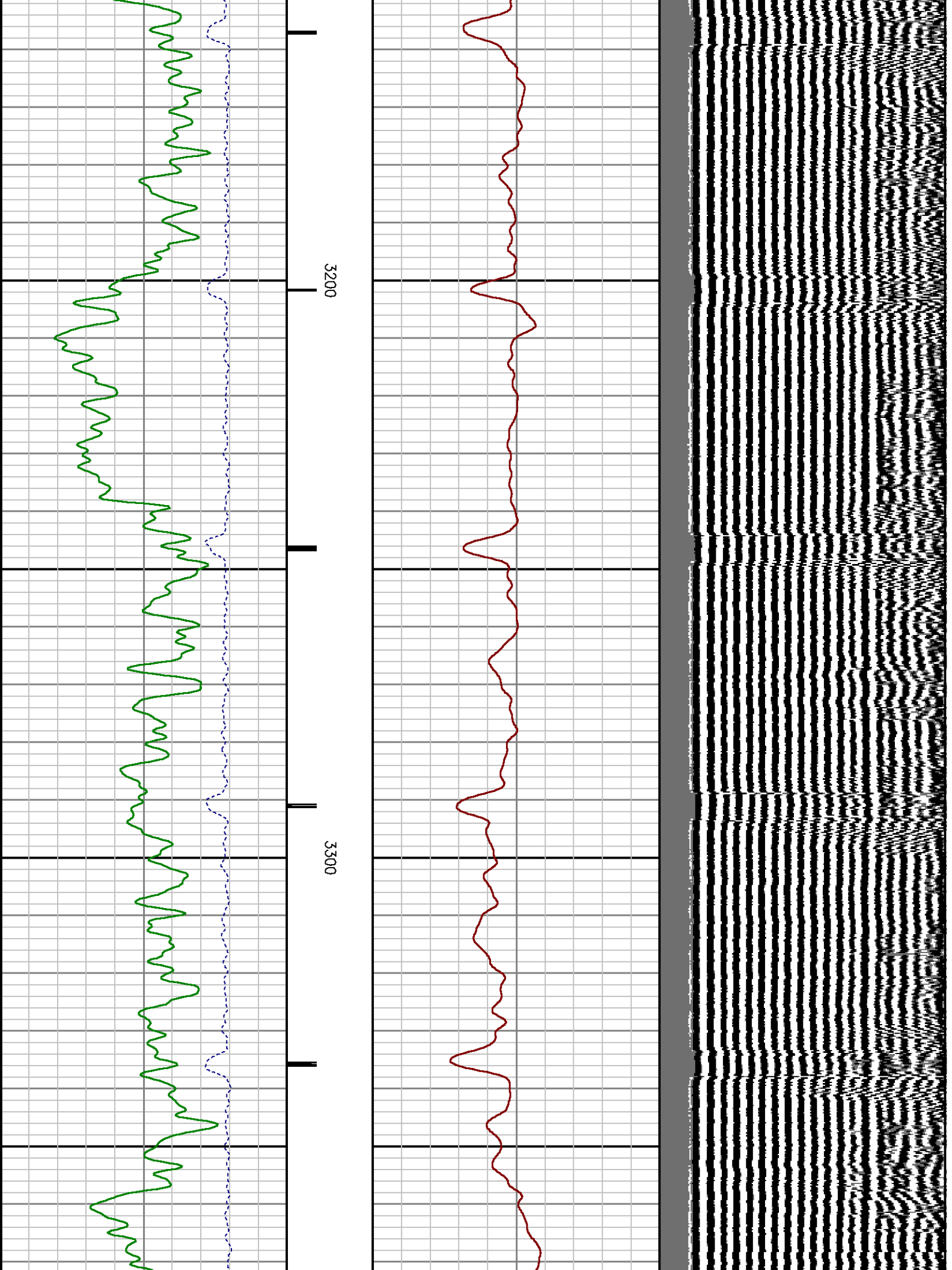


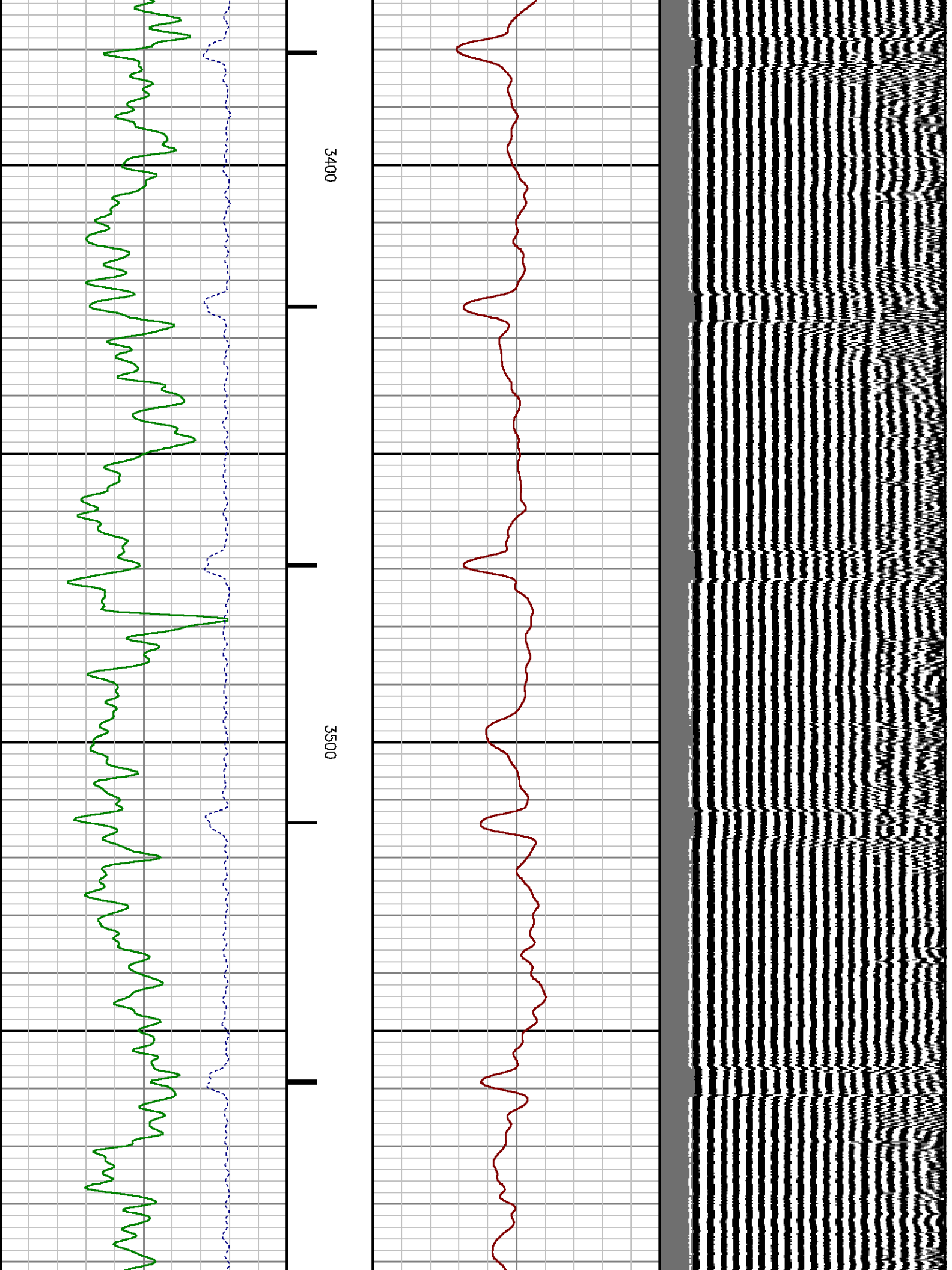


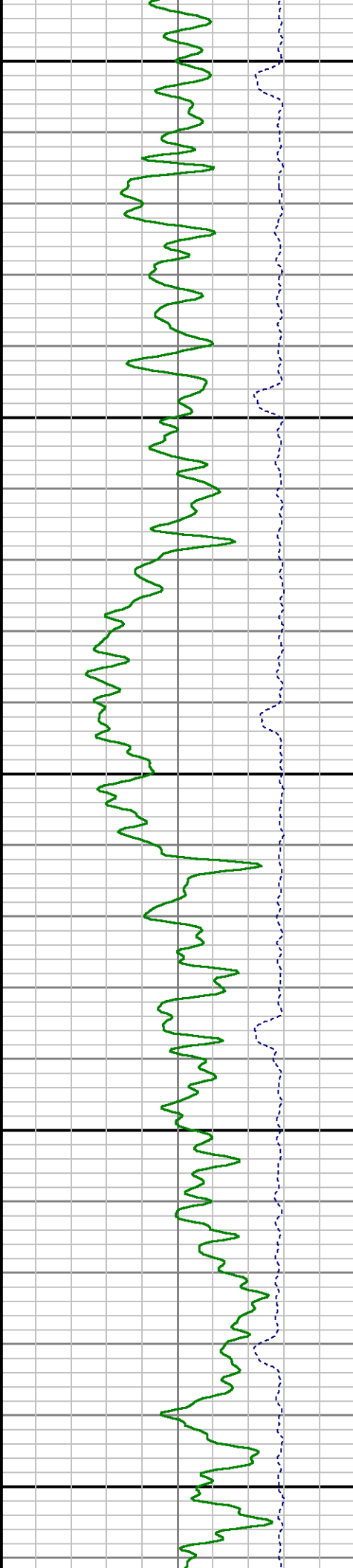
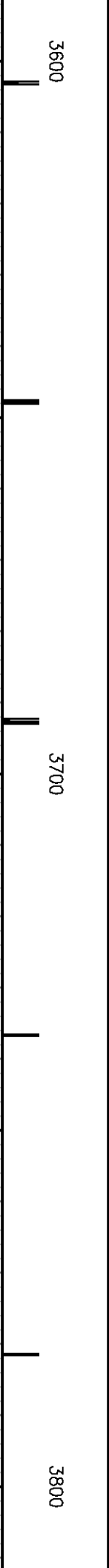
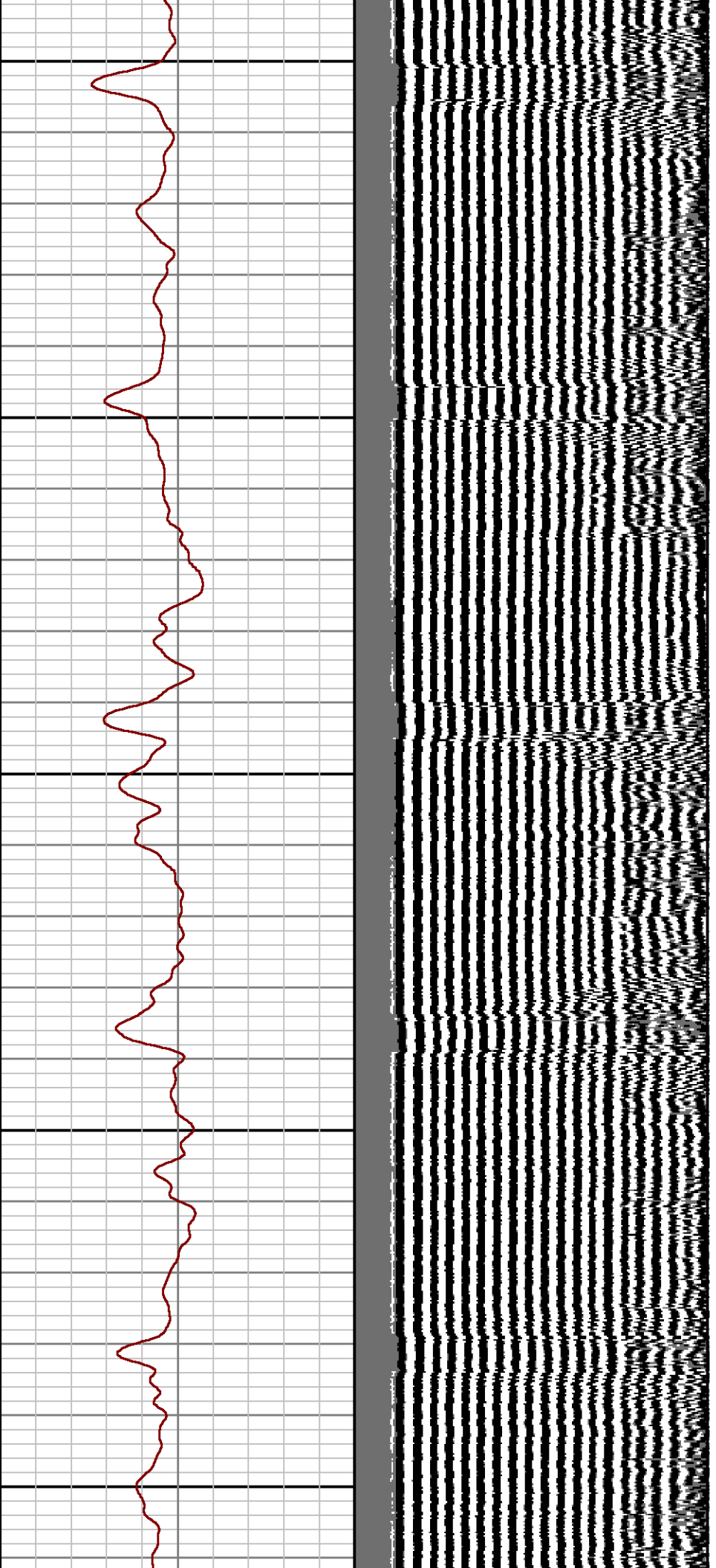


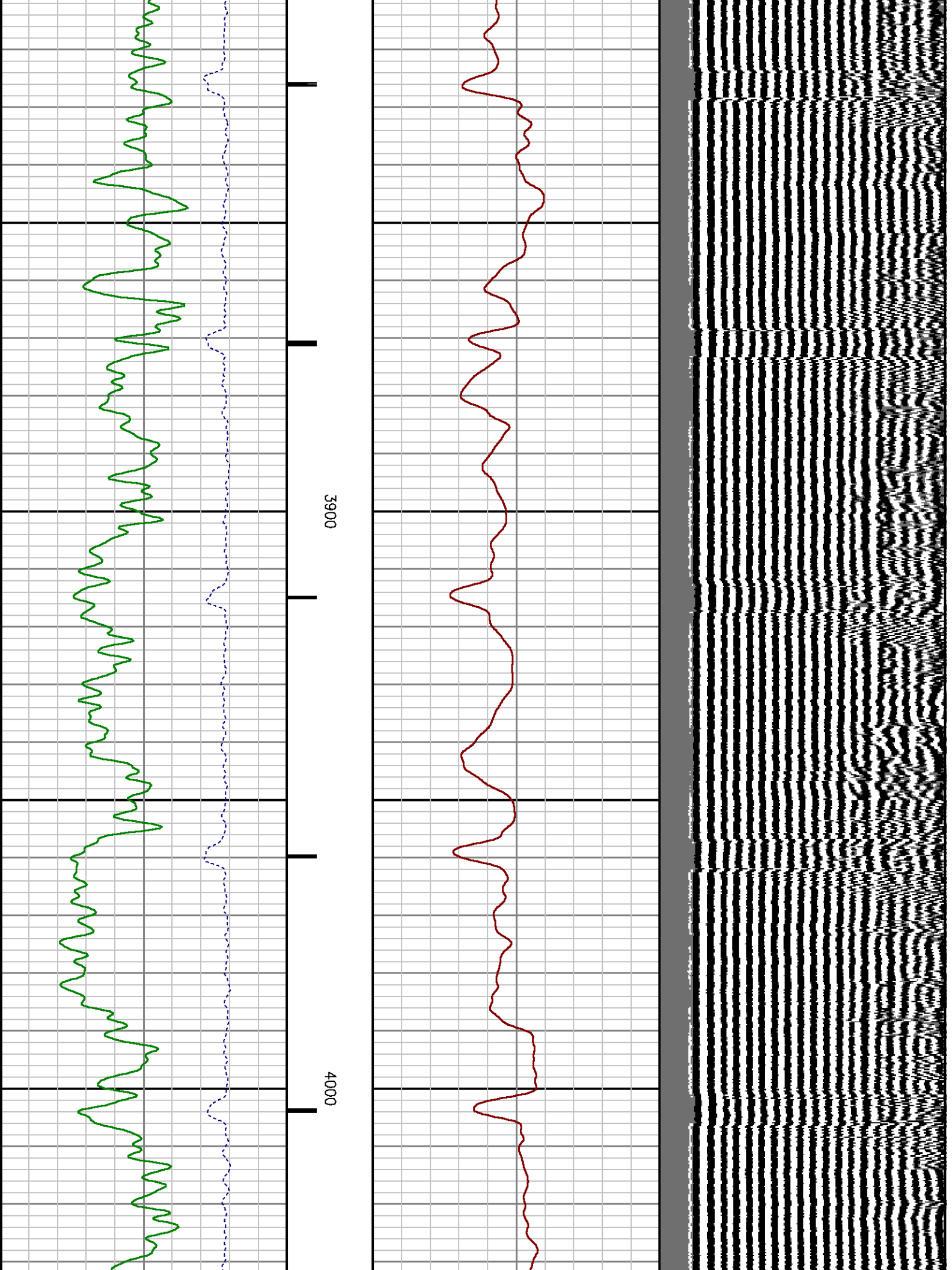


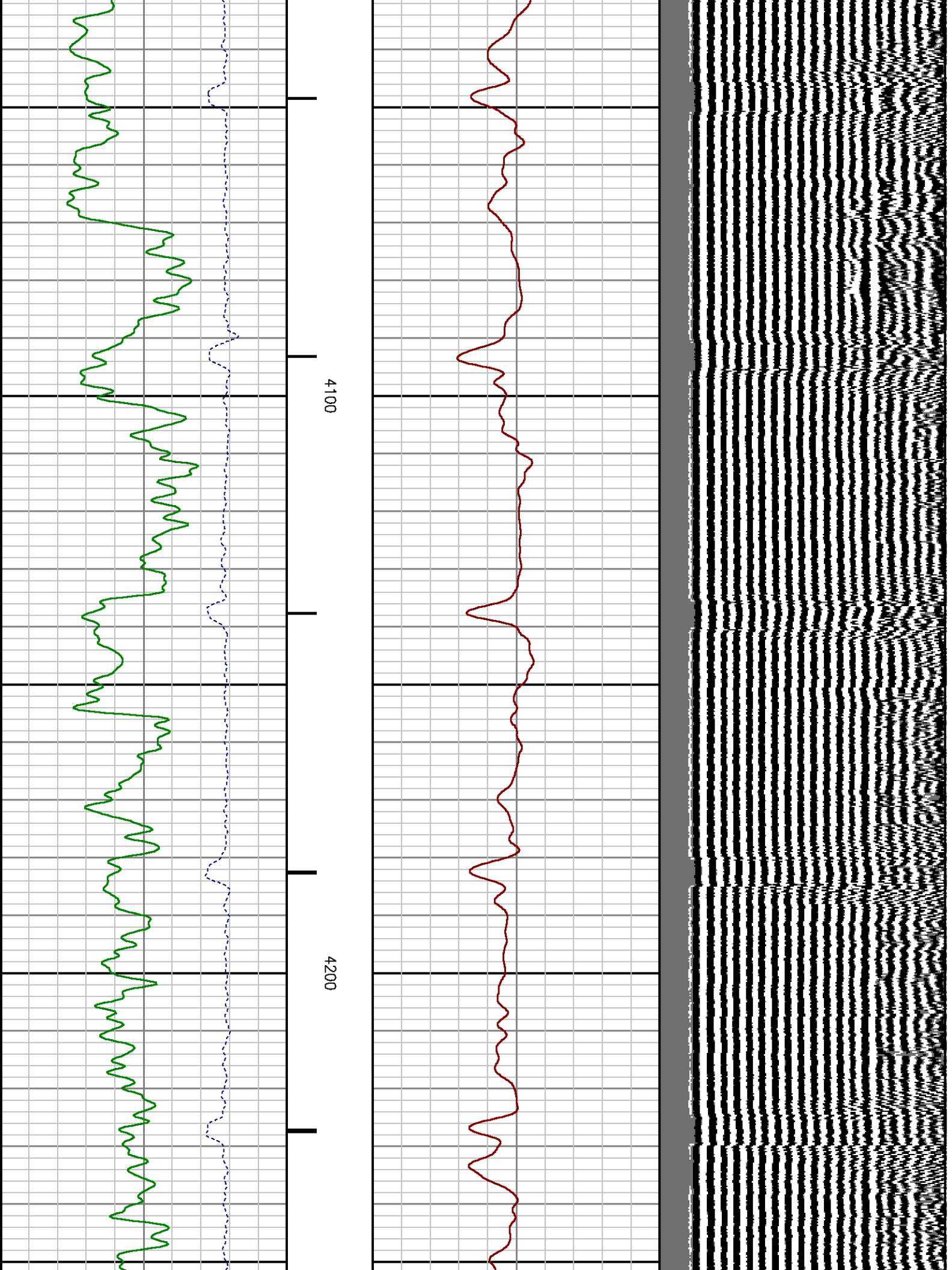


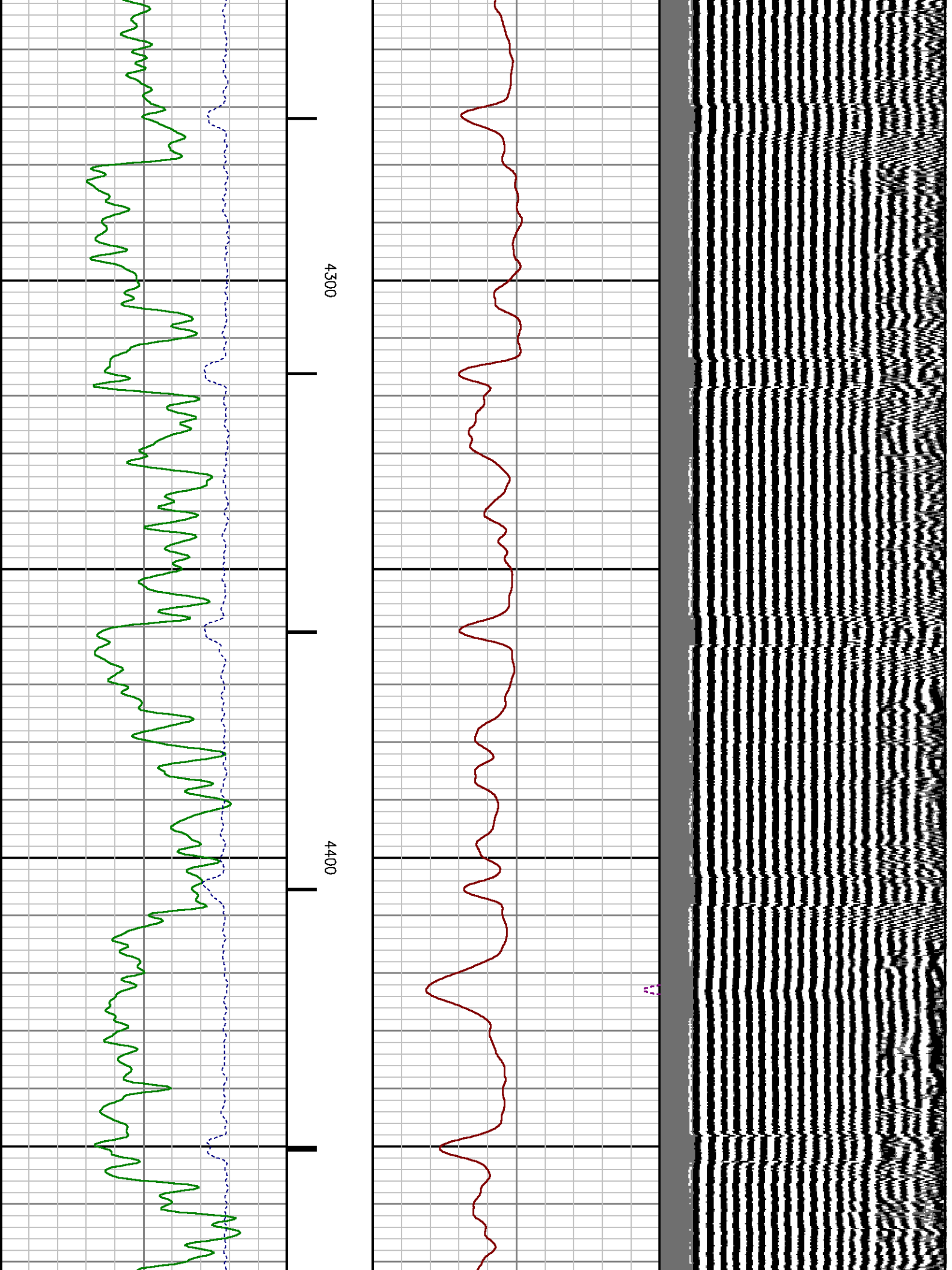


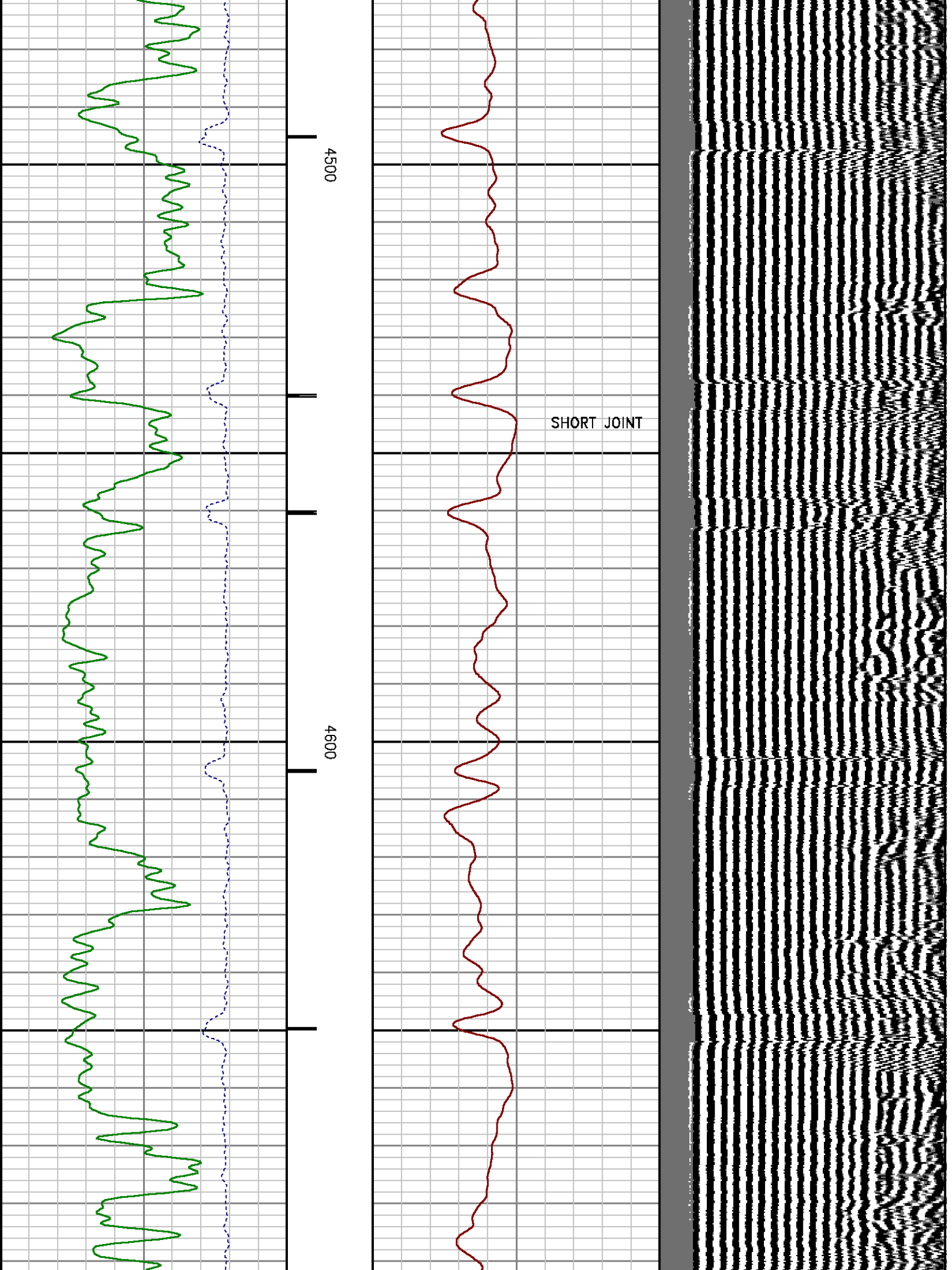


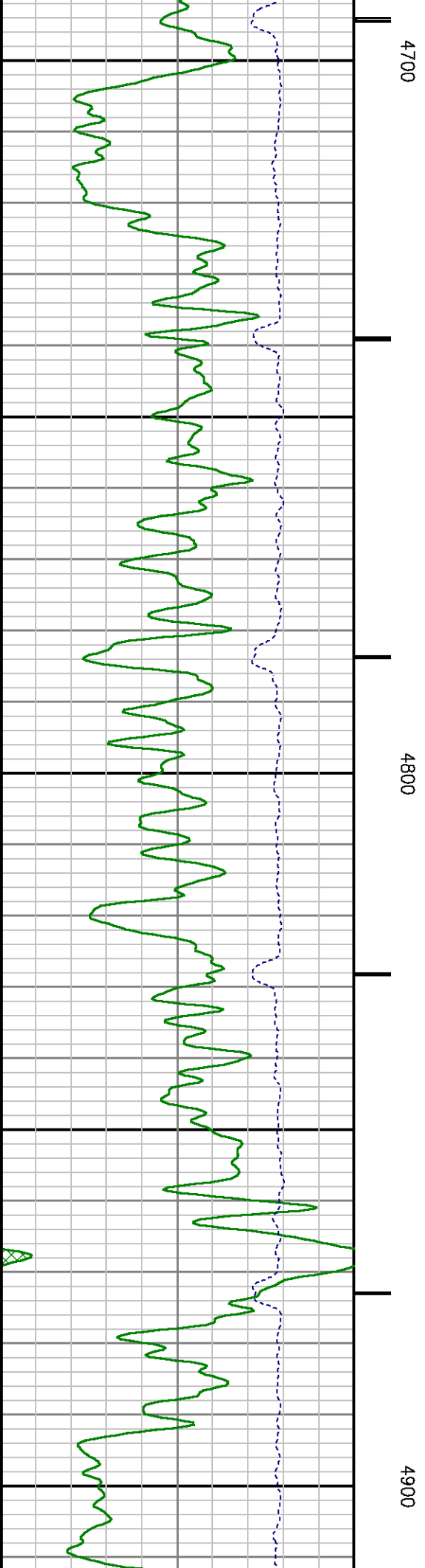
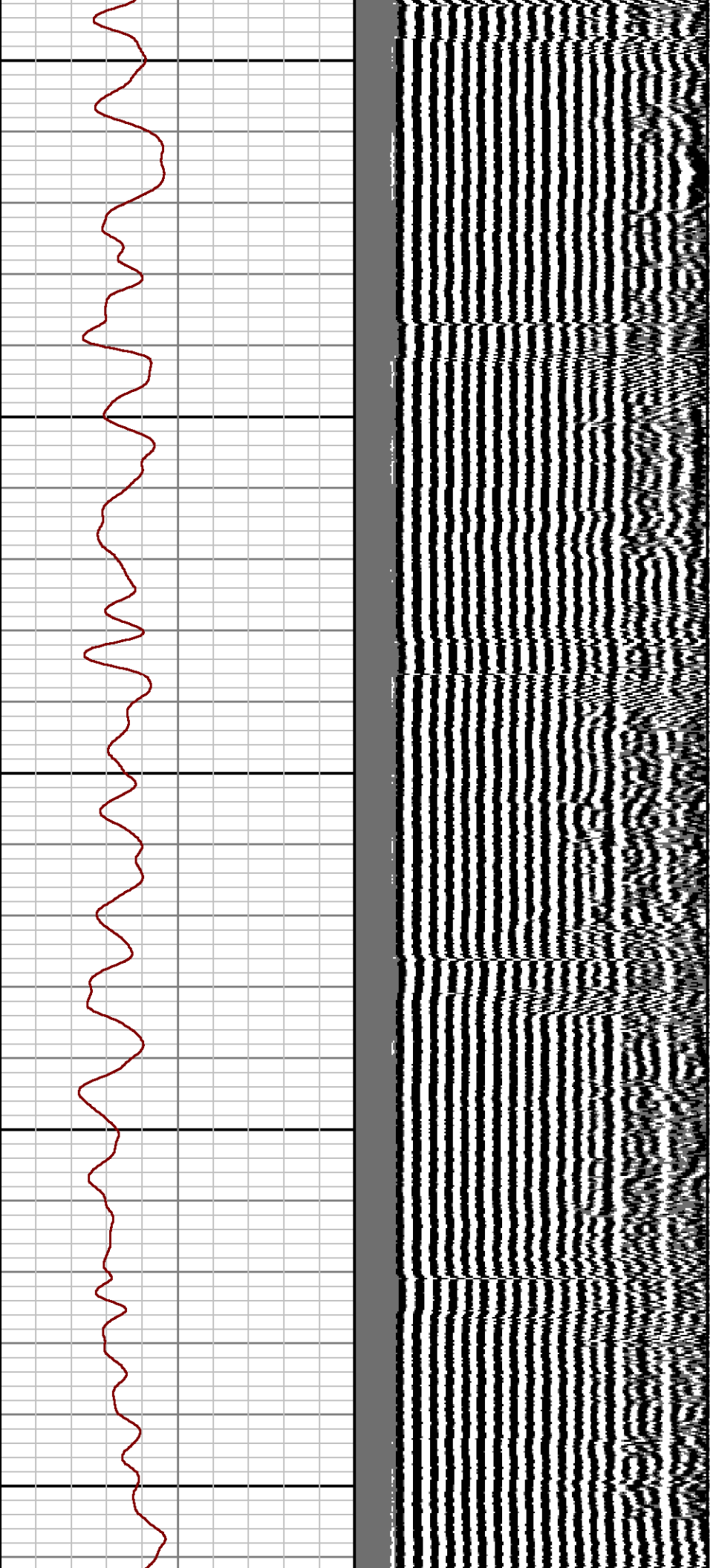


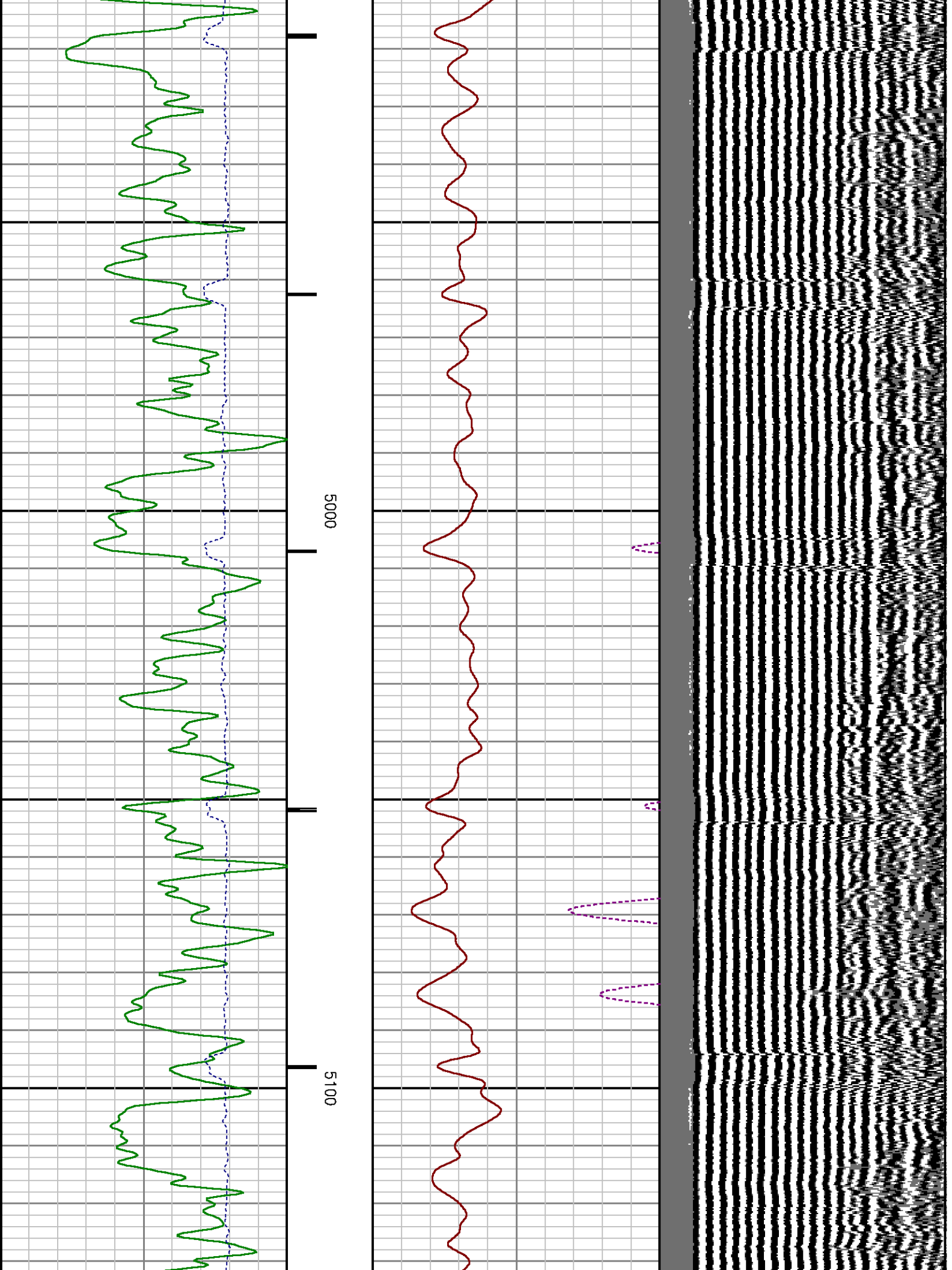


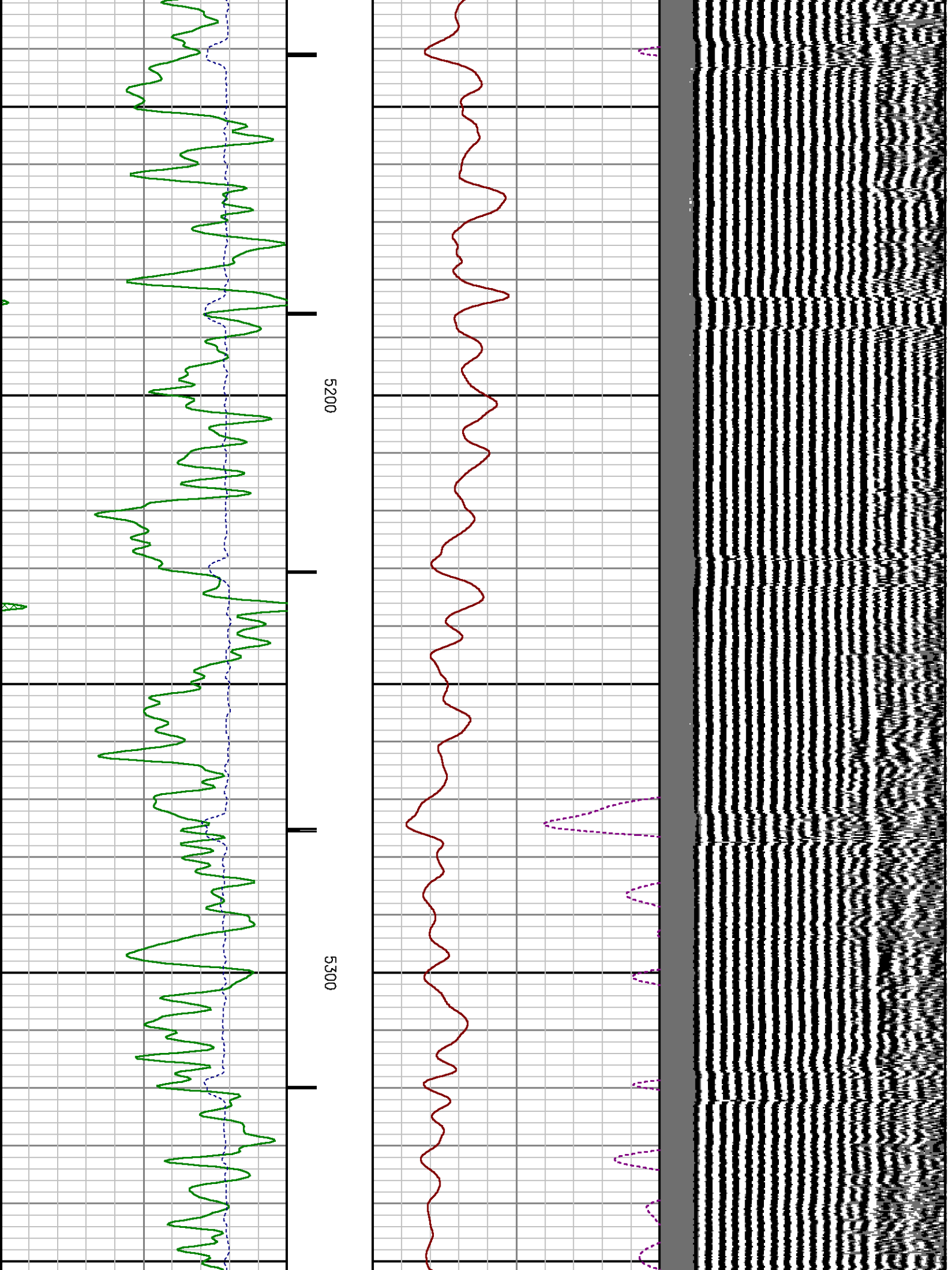


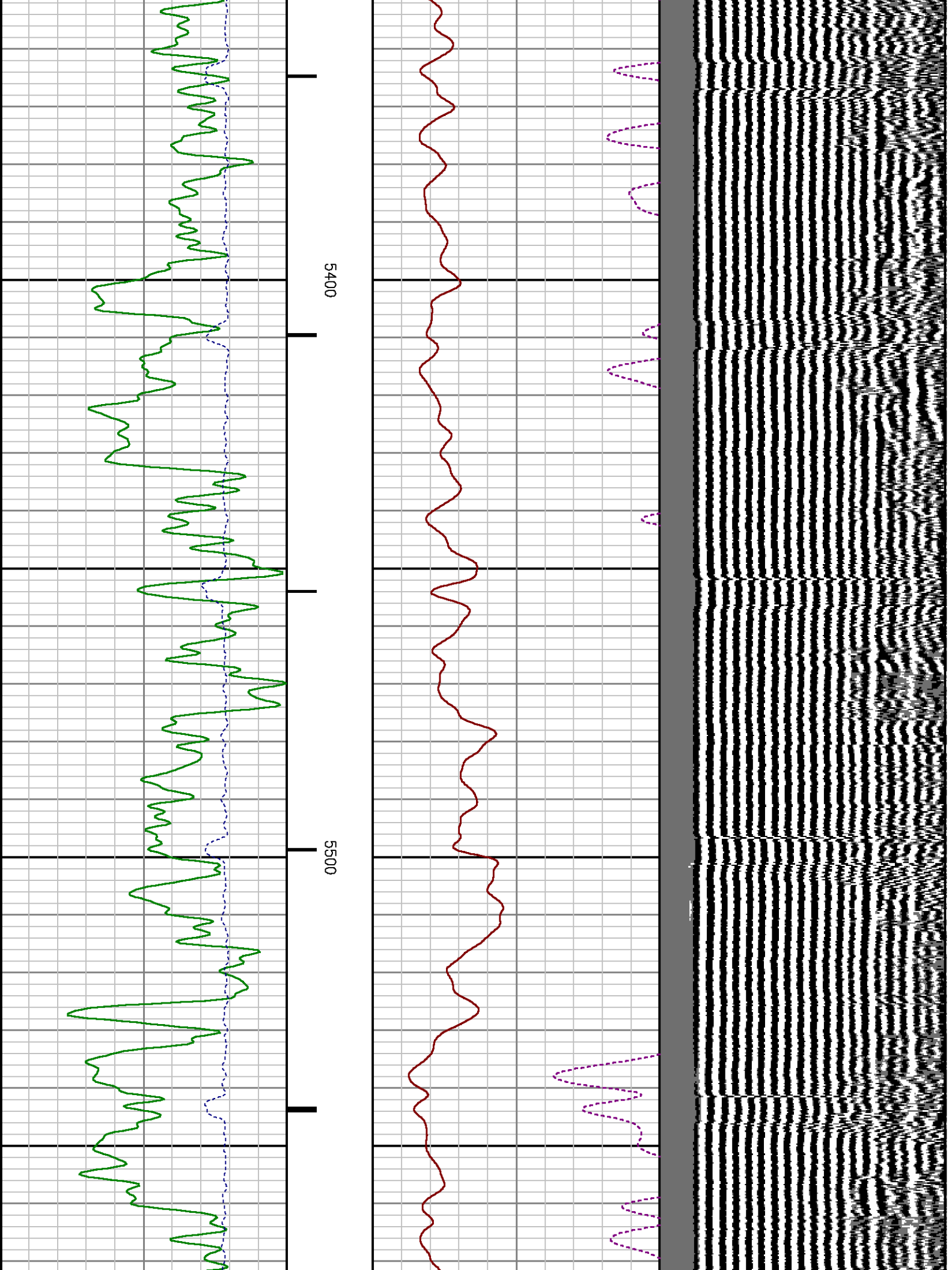


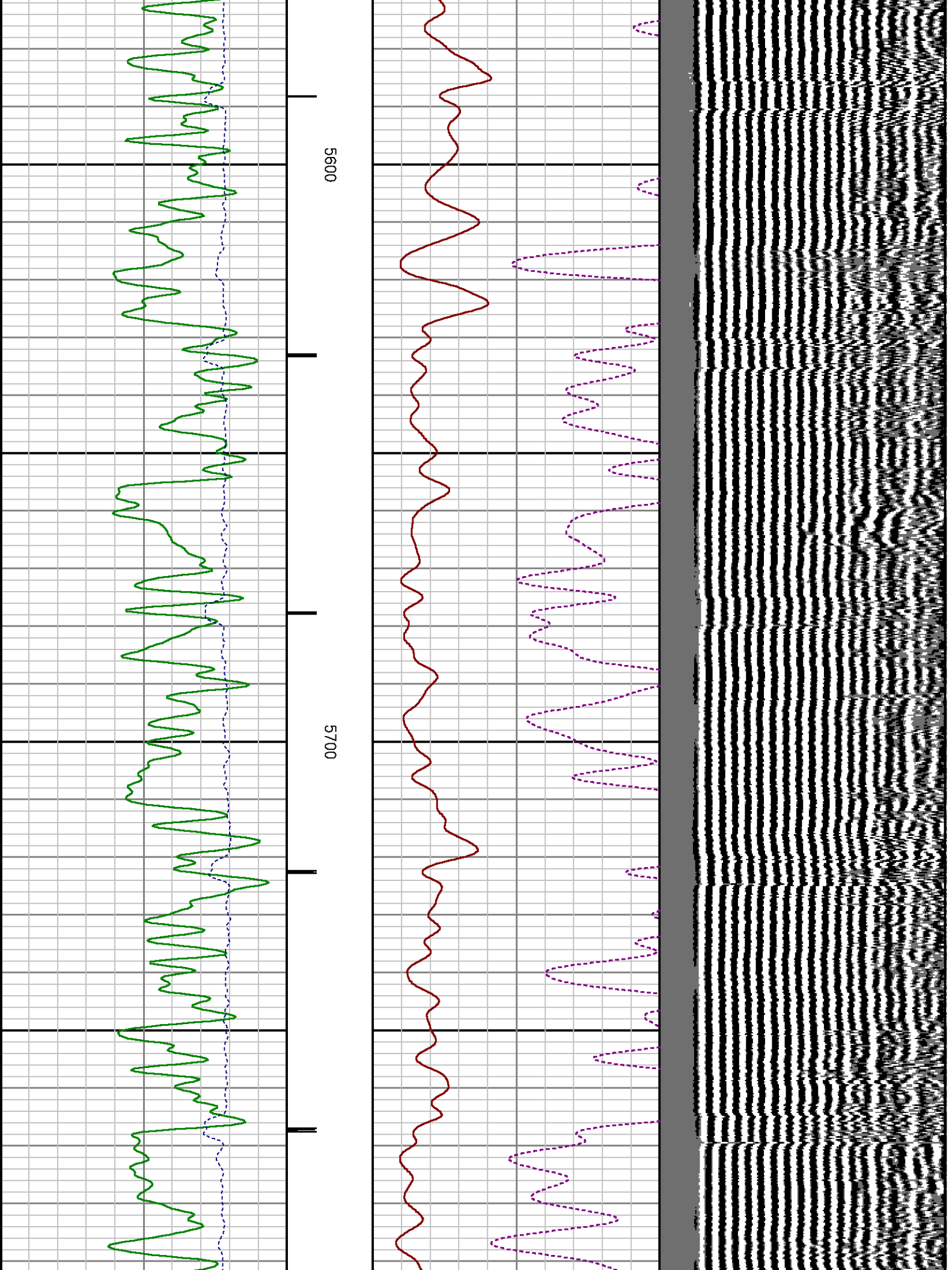


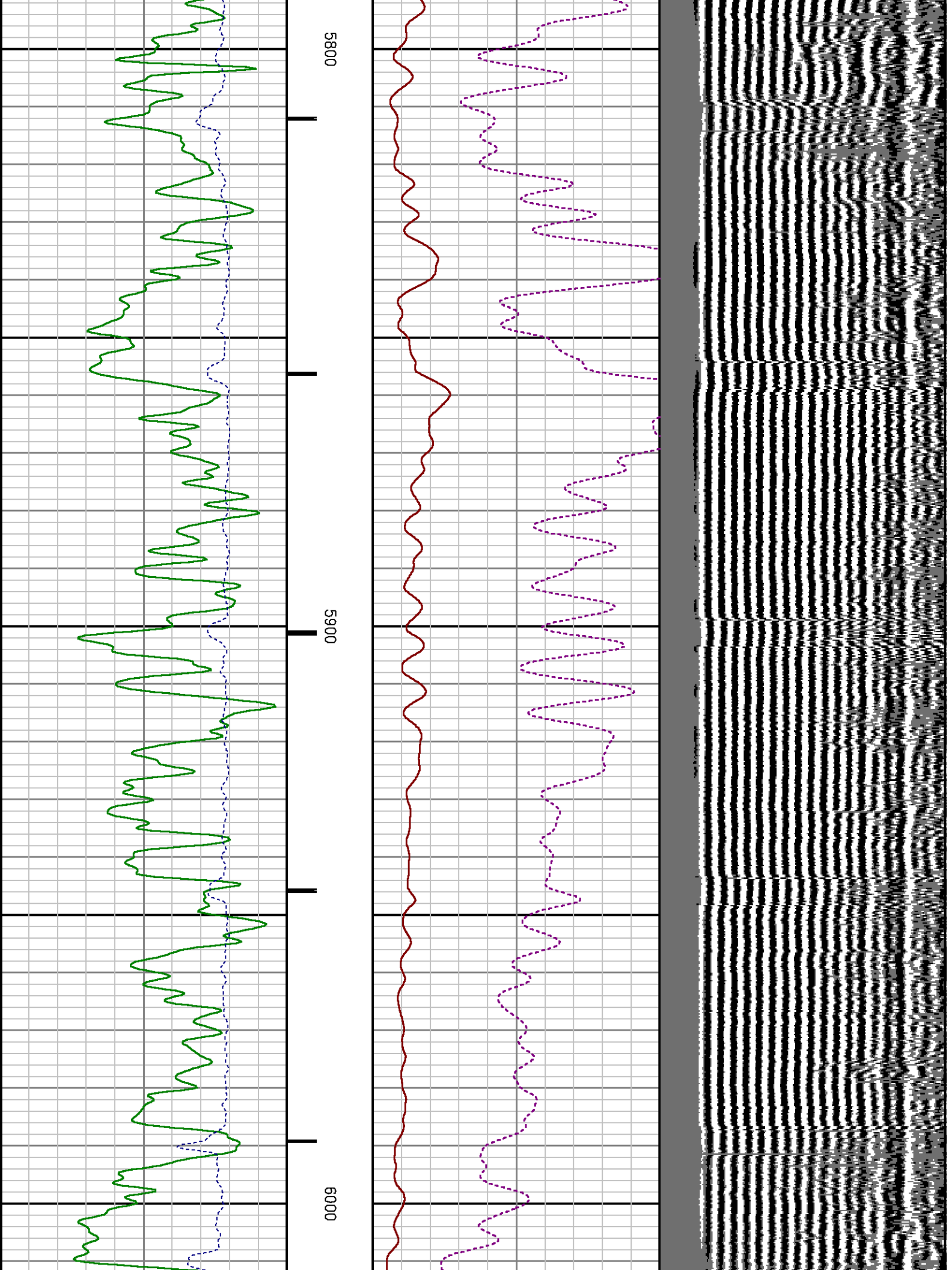


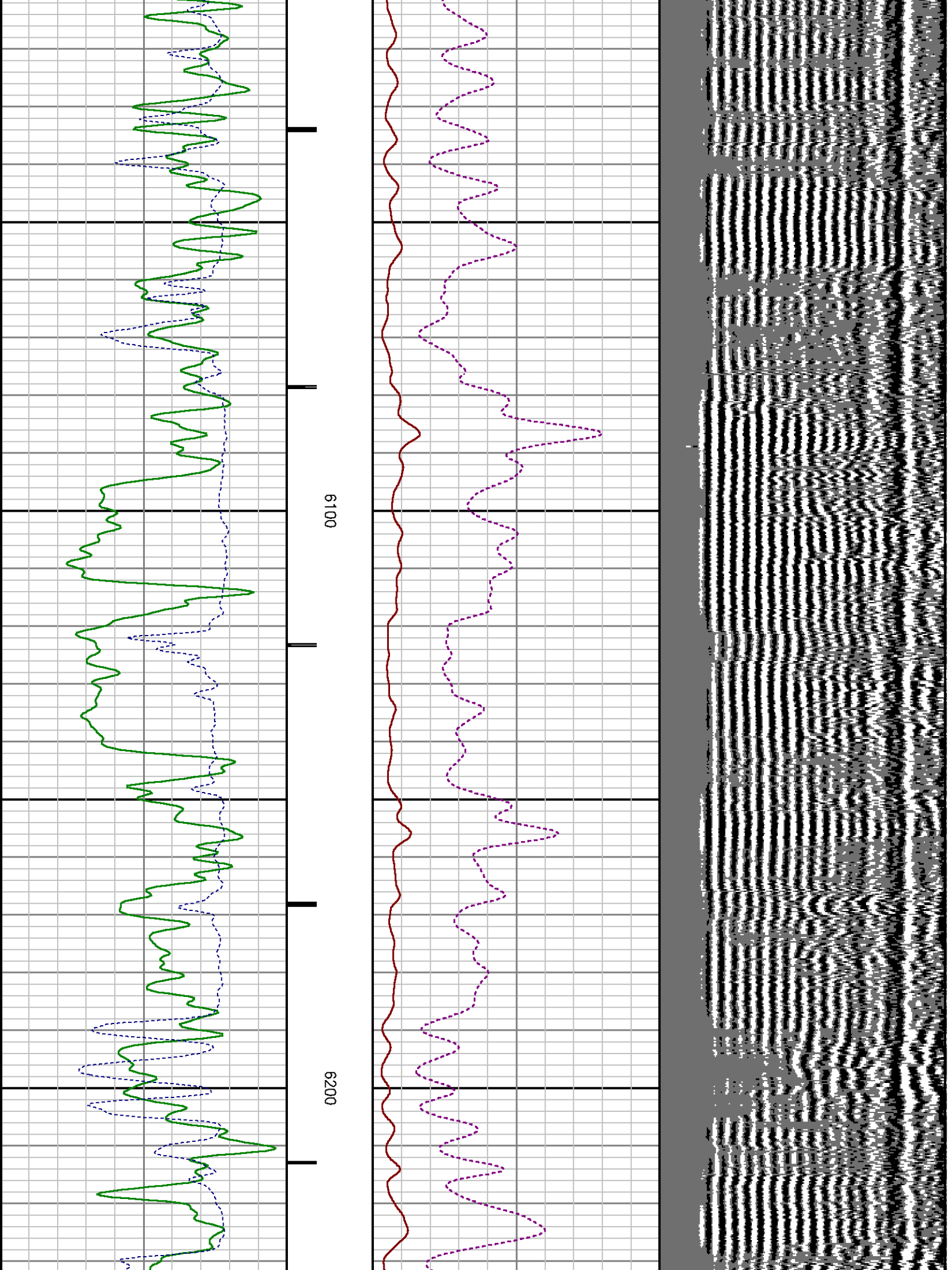


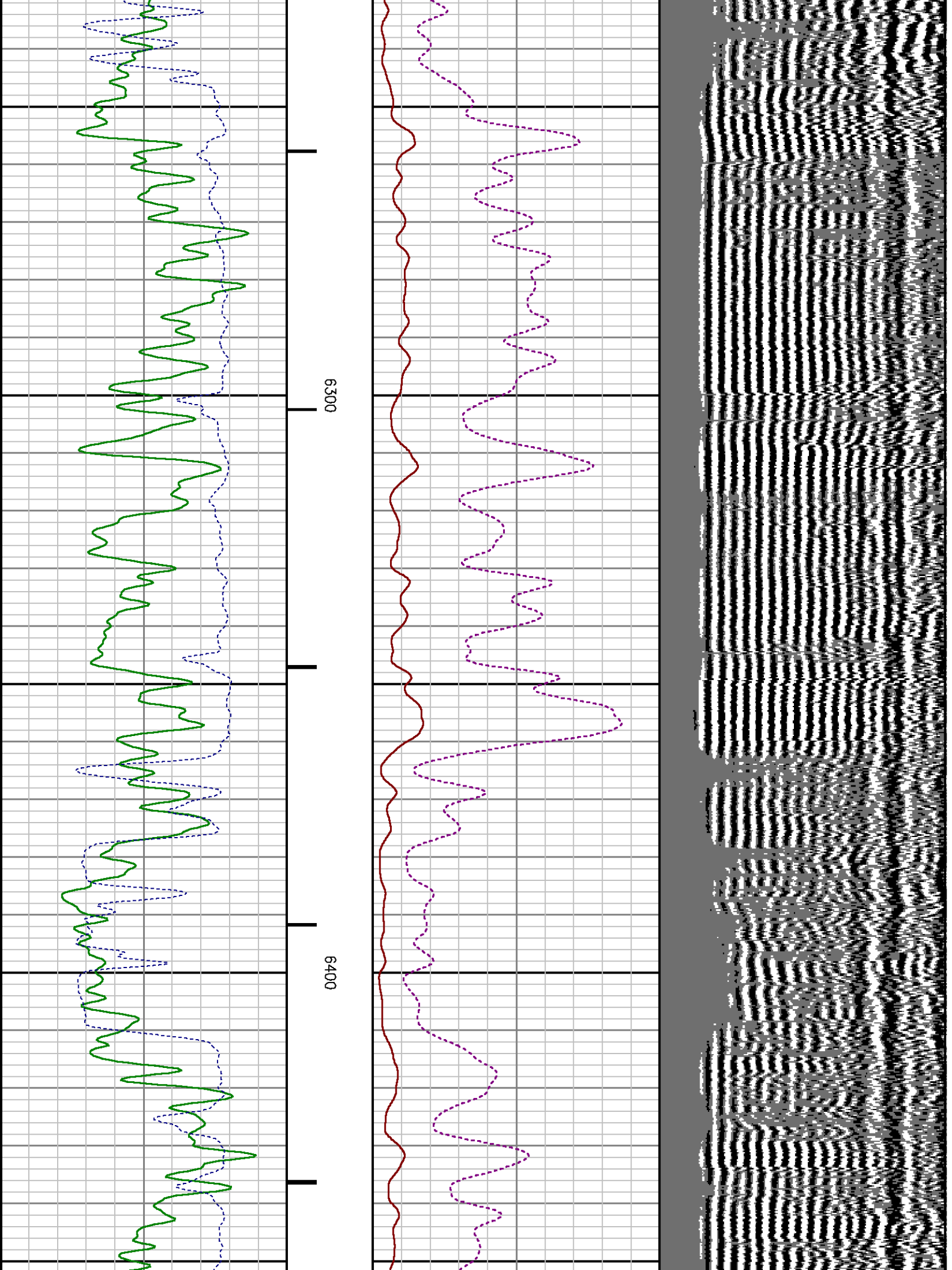


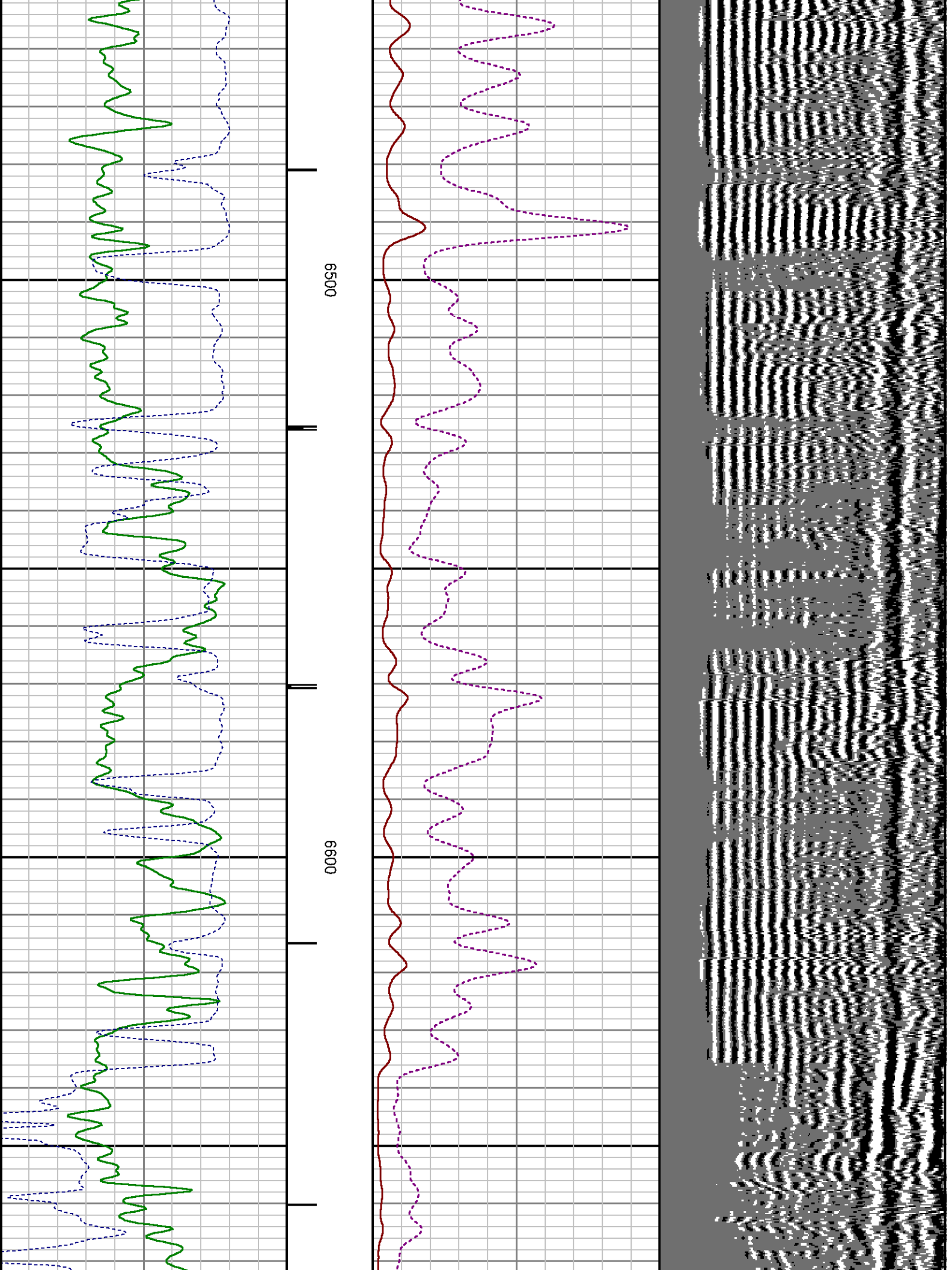


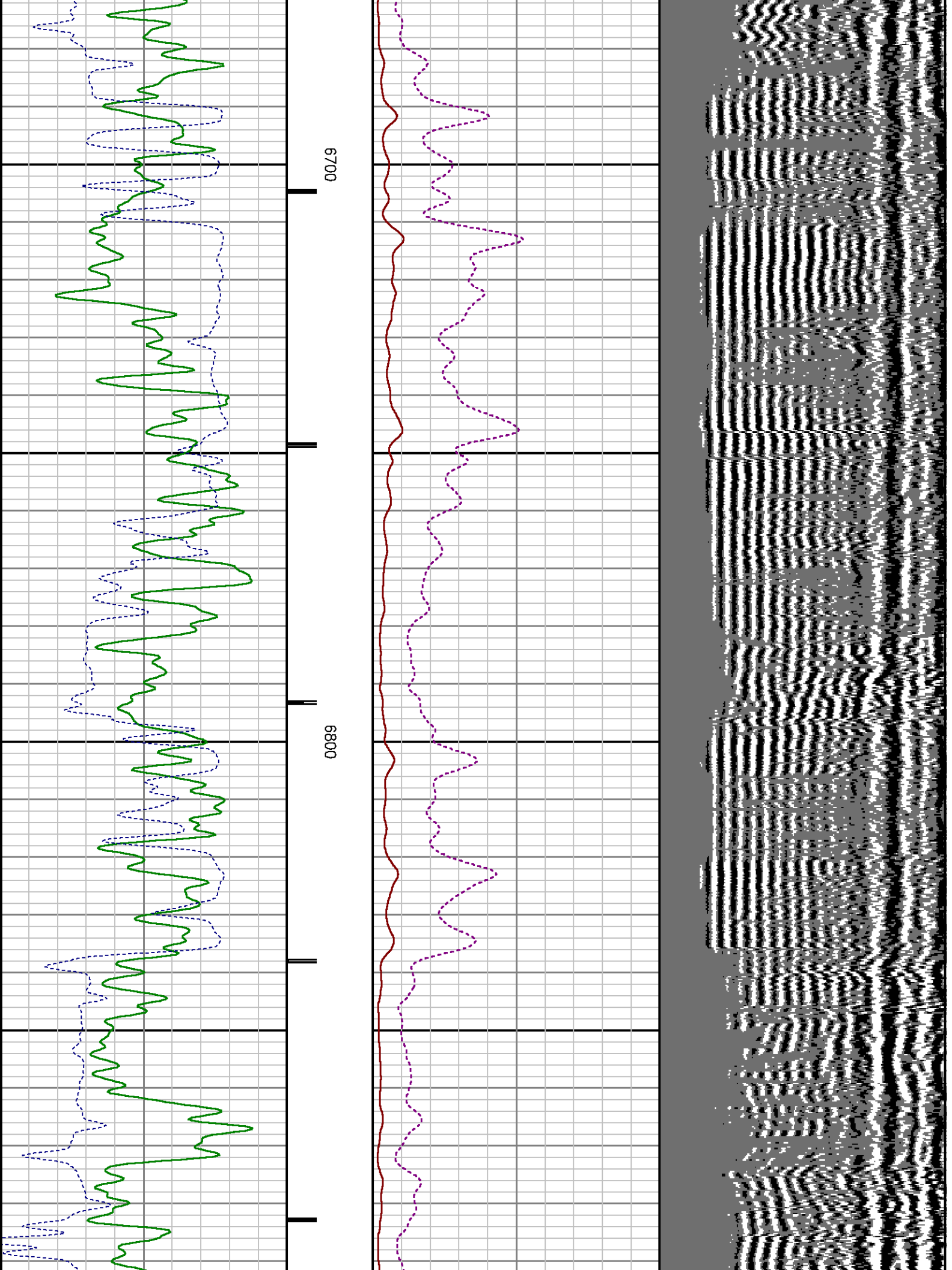


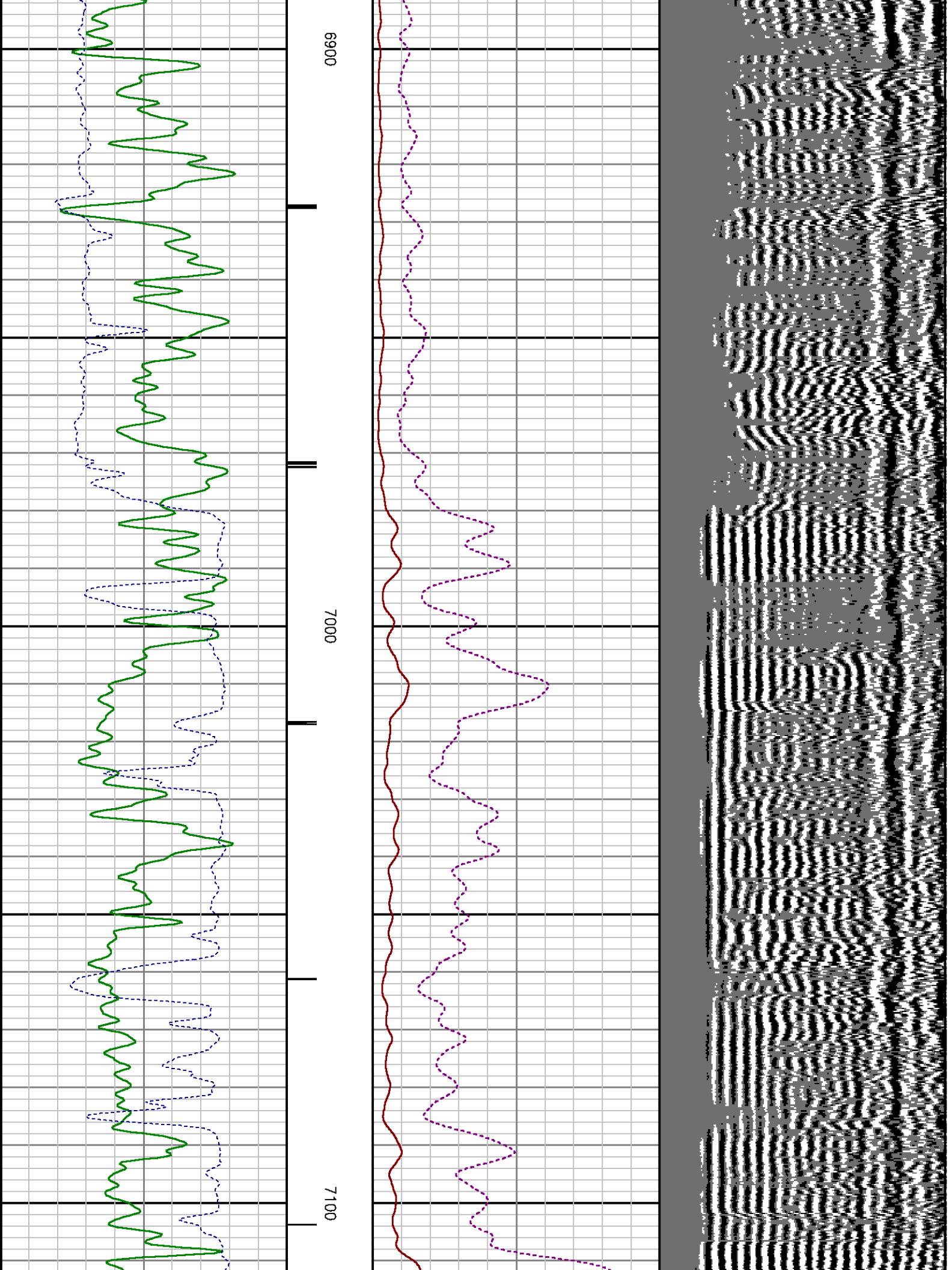


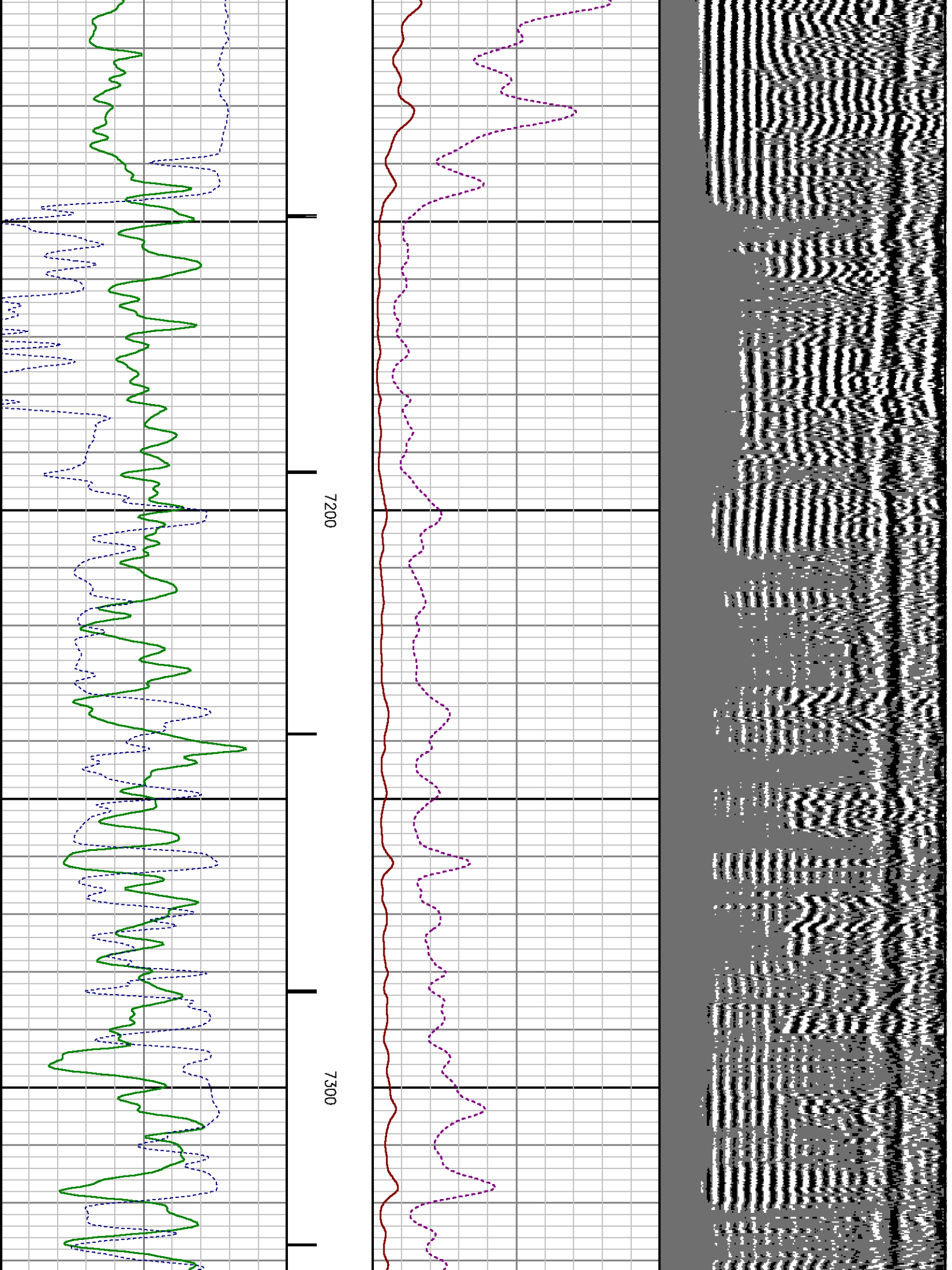


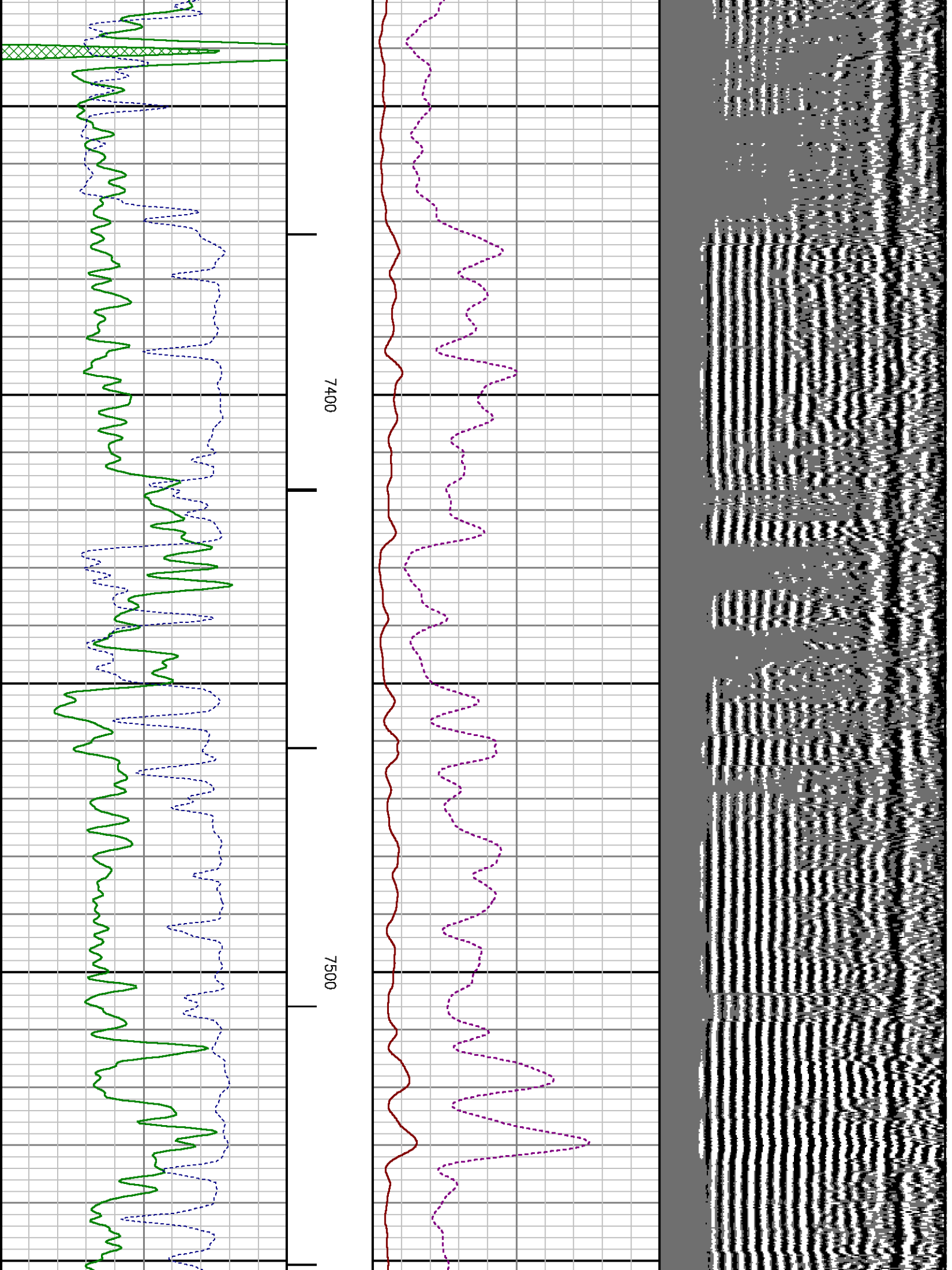


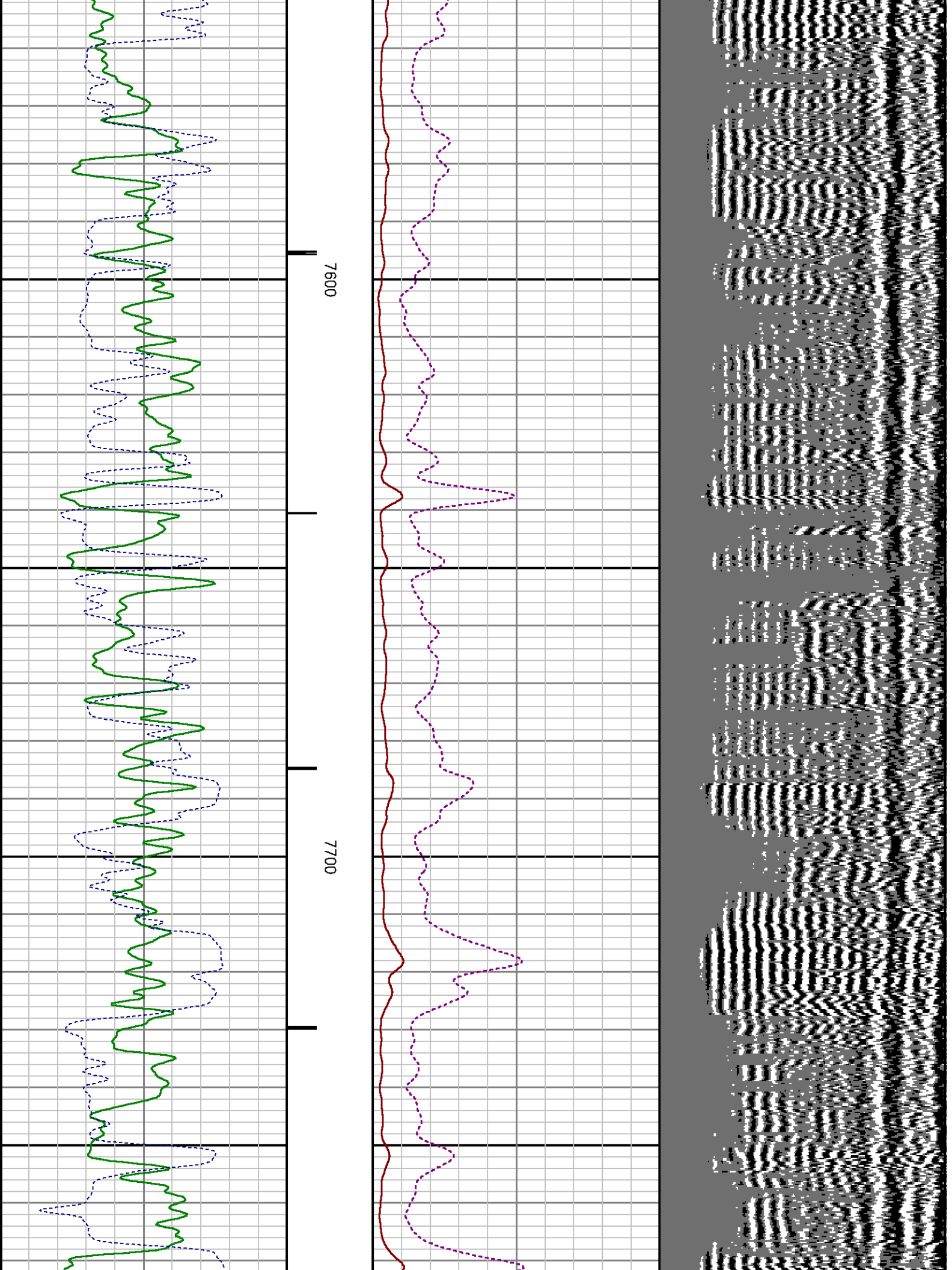


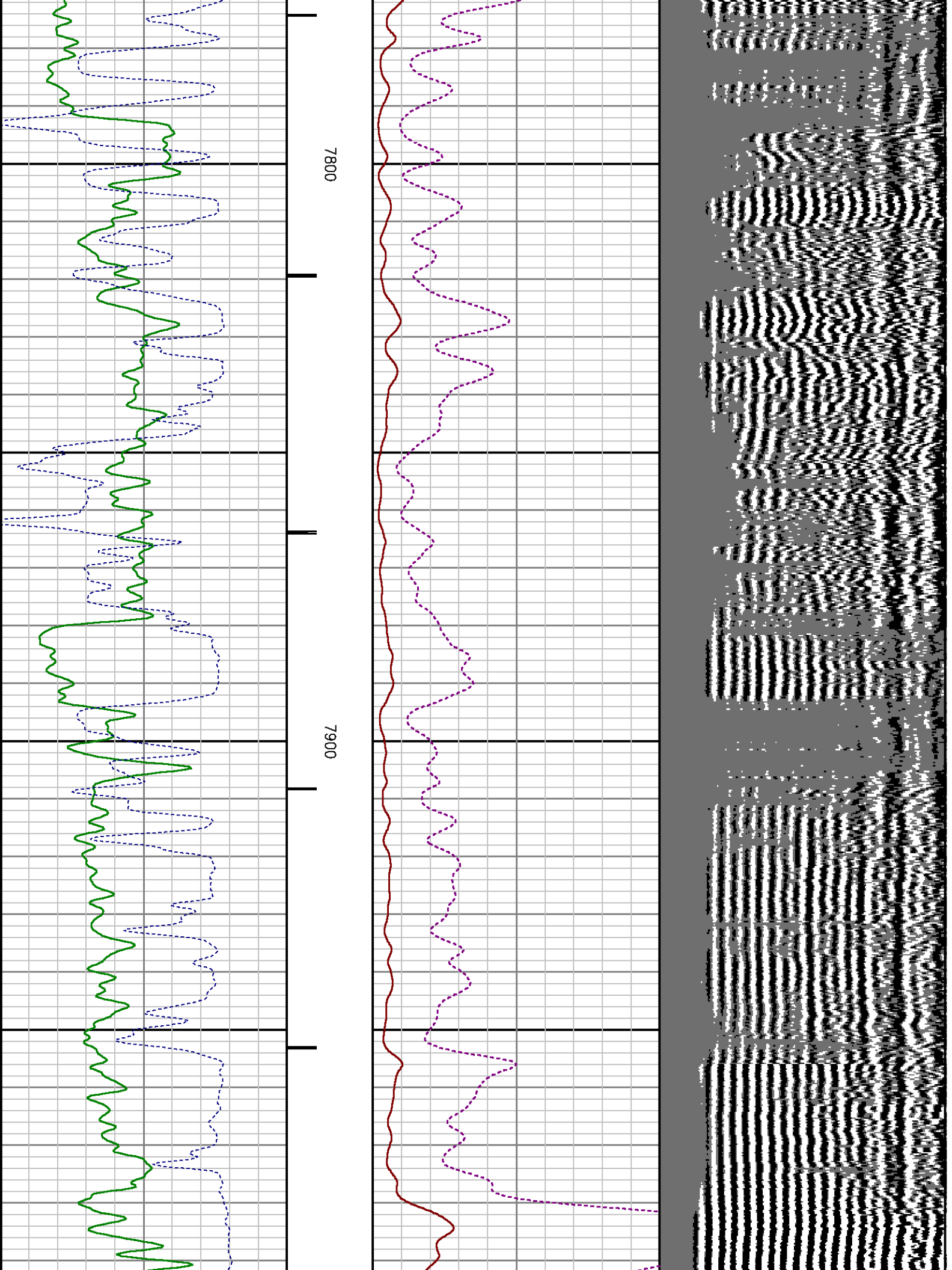


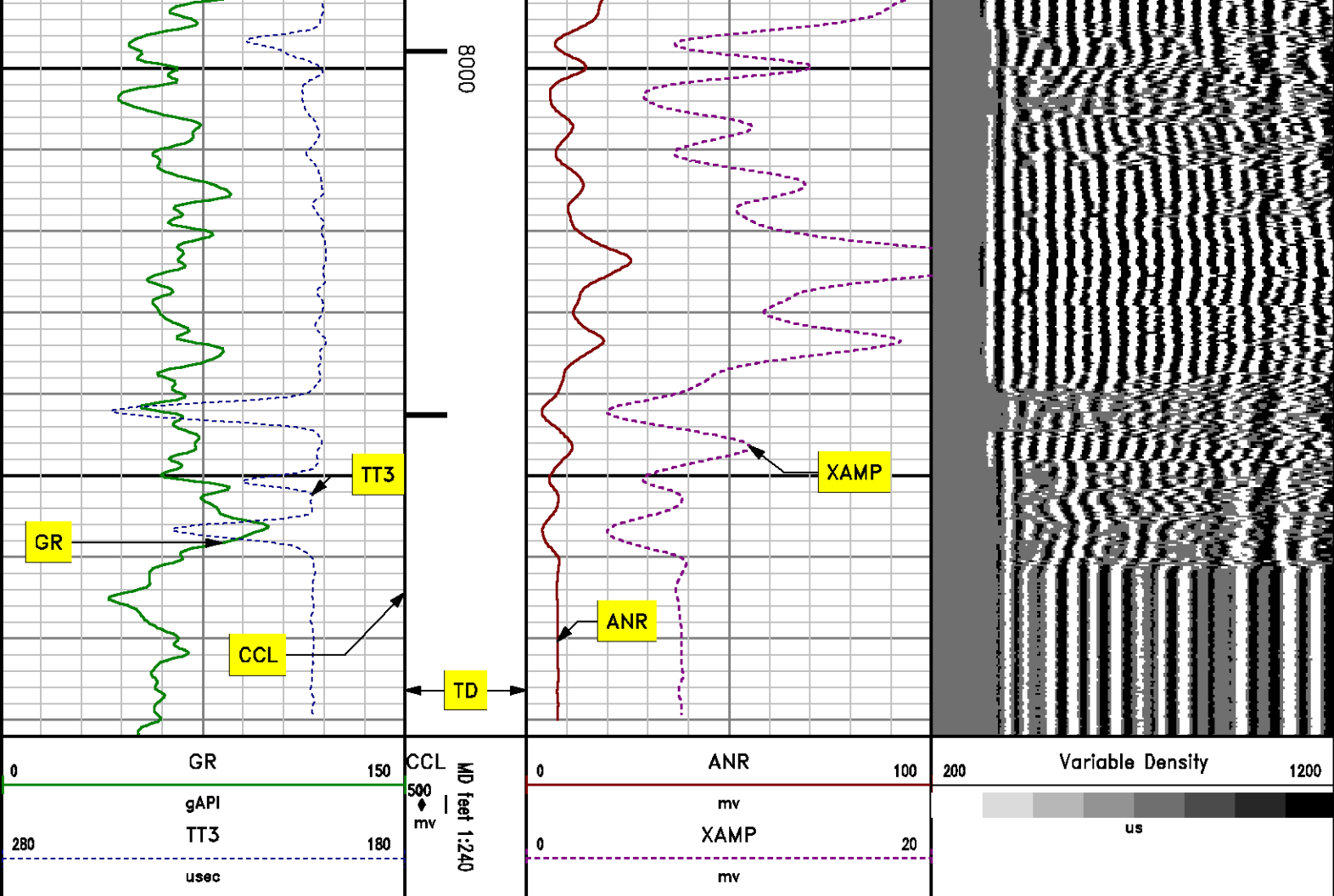












MEASUREMENT TYPE

PARAMETER

VALUE

UNITS

TOP

BOTTOM

RAL	Amp Gate Start Far	308.607	u sec	34.312	6193.000
RAL	Amp Gate Start Near	200.000	u sec	34.312	6193.000
RAL	Amp Gate Start Radial	201.648	u sec	34.312	6193.000
RAL	Amp Gate Width Far	25.000	u sec	34.312	6193.000
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RAL	Amp Gate Width Radial	25.000	u sec	34.312	6193.000
RAL	casing od	4.500	inches	34.312	6193.000
RAL	casing wt	11.600	lbm/ft	34.312	6193.000

RAL	FB Start Far	291.900	usec	34.312	6193.000
RAL	FB Start Near	175.391	usec	34.312	6193.000
RAL	FB Start Radial	175.391	usec	34.312	6193.000
RAL	FB Thresh Far	10.000	mv	34.312	6193.000
RAL	FB Thresh Near	4.000	mv	34.312	6193.000
RAL	FB Thresh Radial	4.000	mv	34.312	6193.000
RAL	Fluid Travel Time	200.000	usec/ft	34.312	6193.000
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RAL	FB Thresh Radial	4.000	mv	6193.000	8097.000
RAL	Fluid Travel Time	200.000	usec/ft	6193.000	8097.531

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

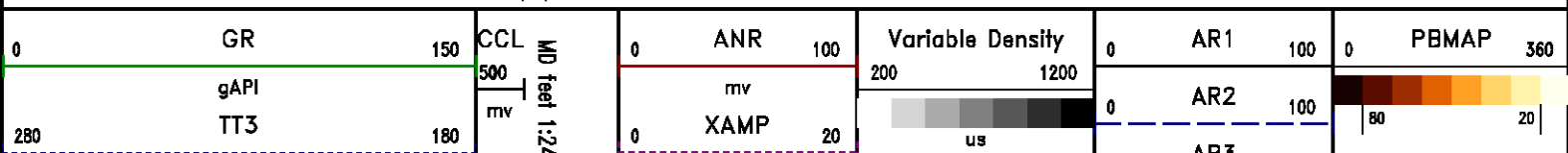
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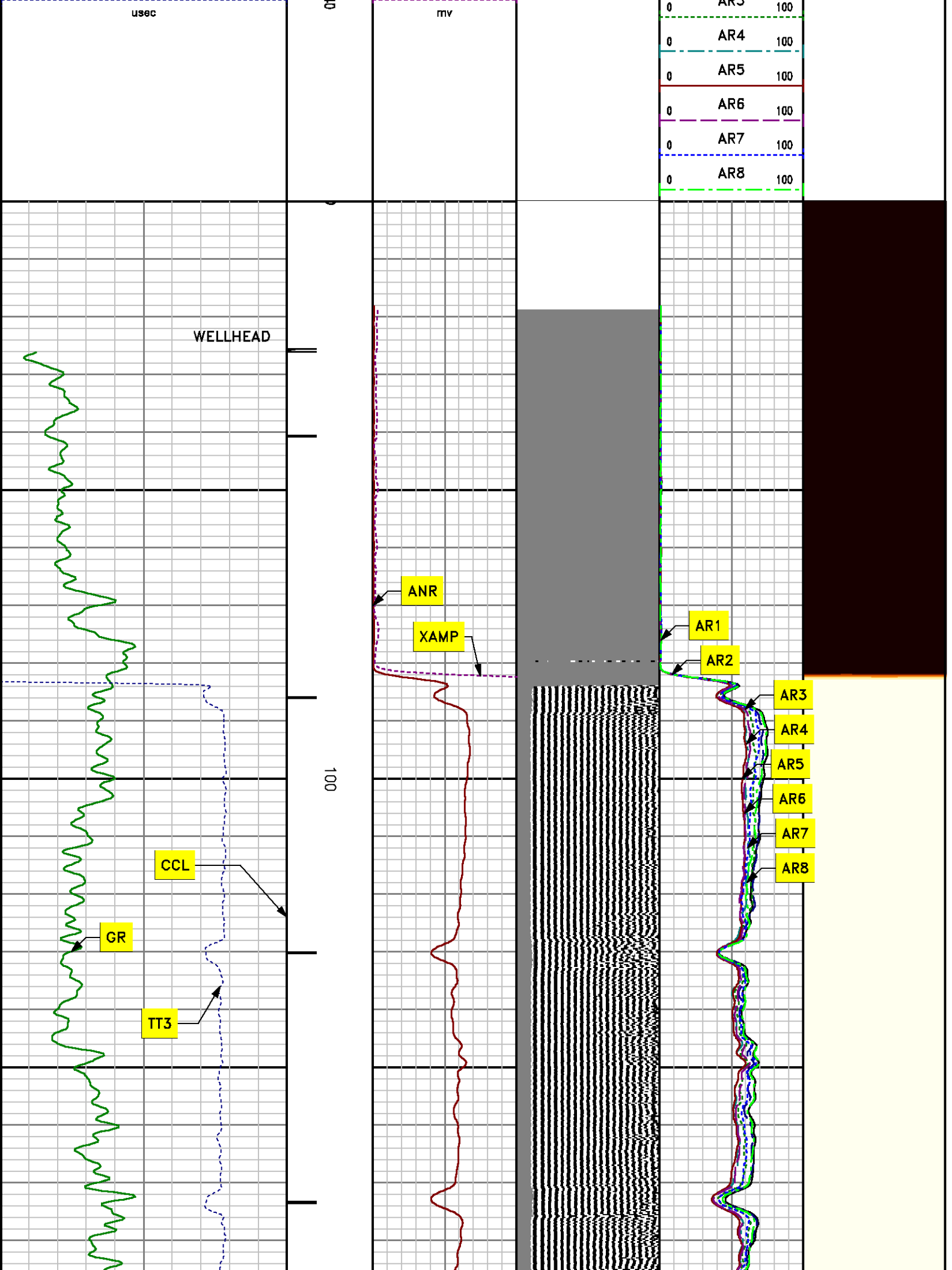
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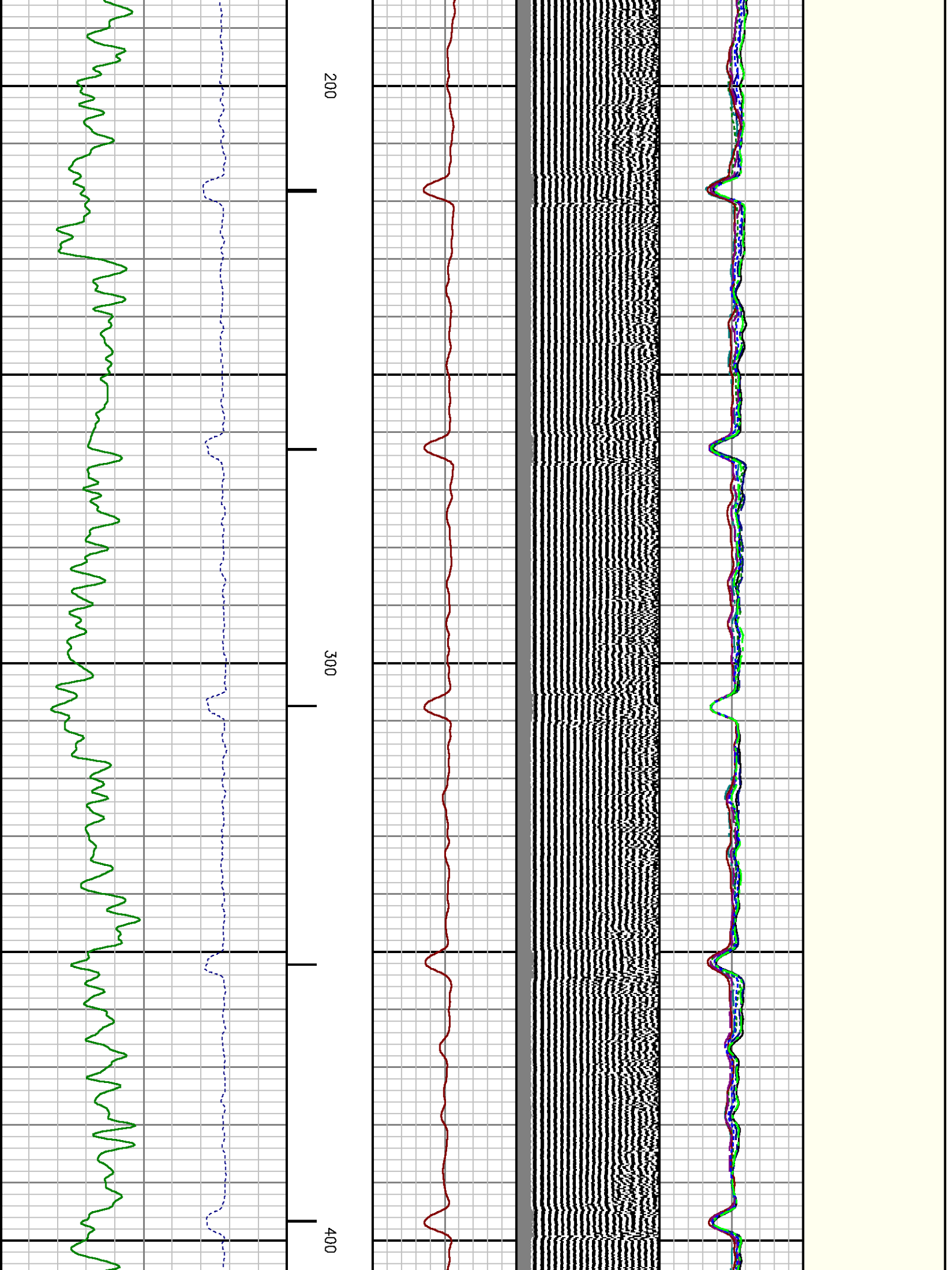
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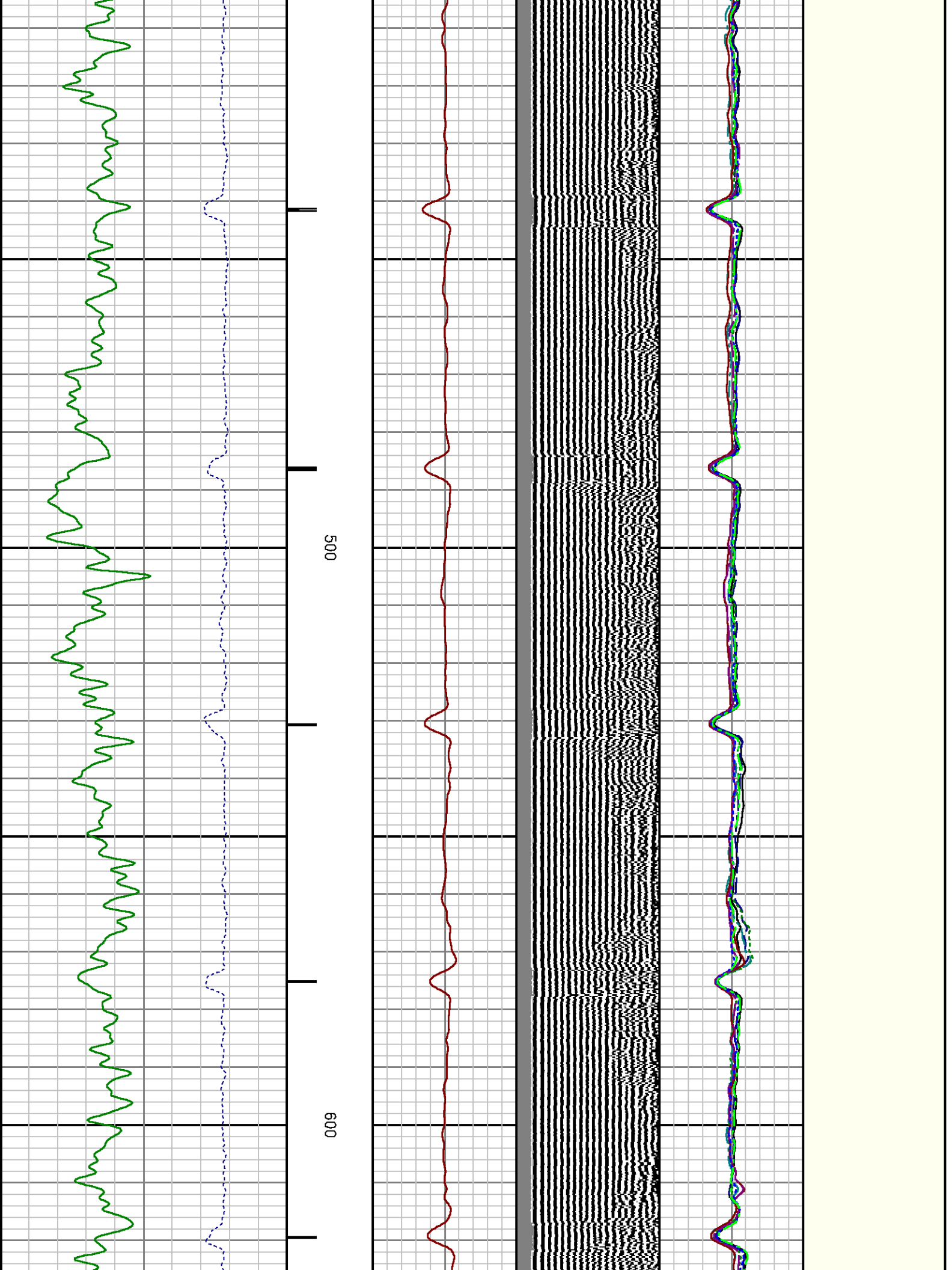
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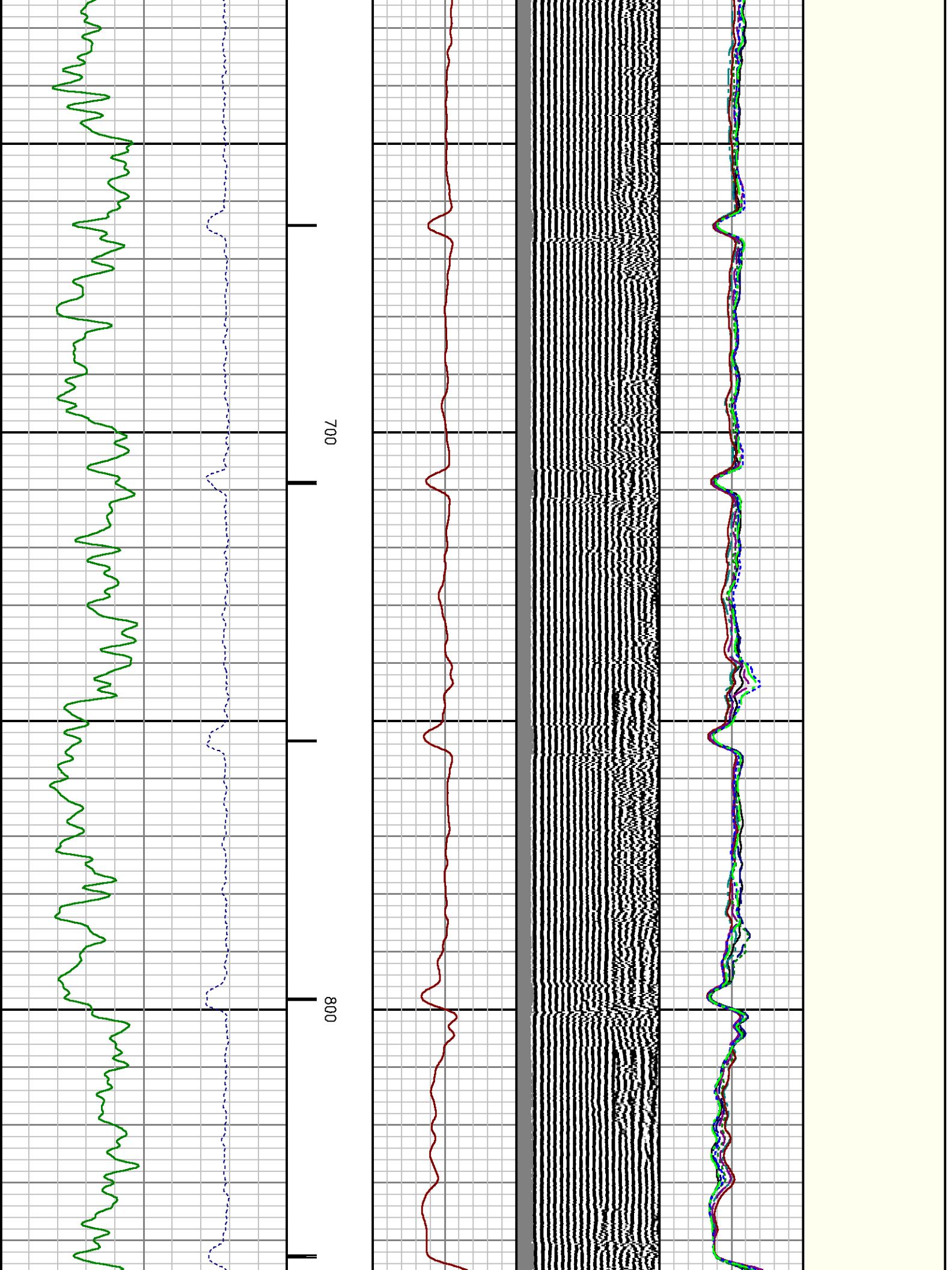
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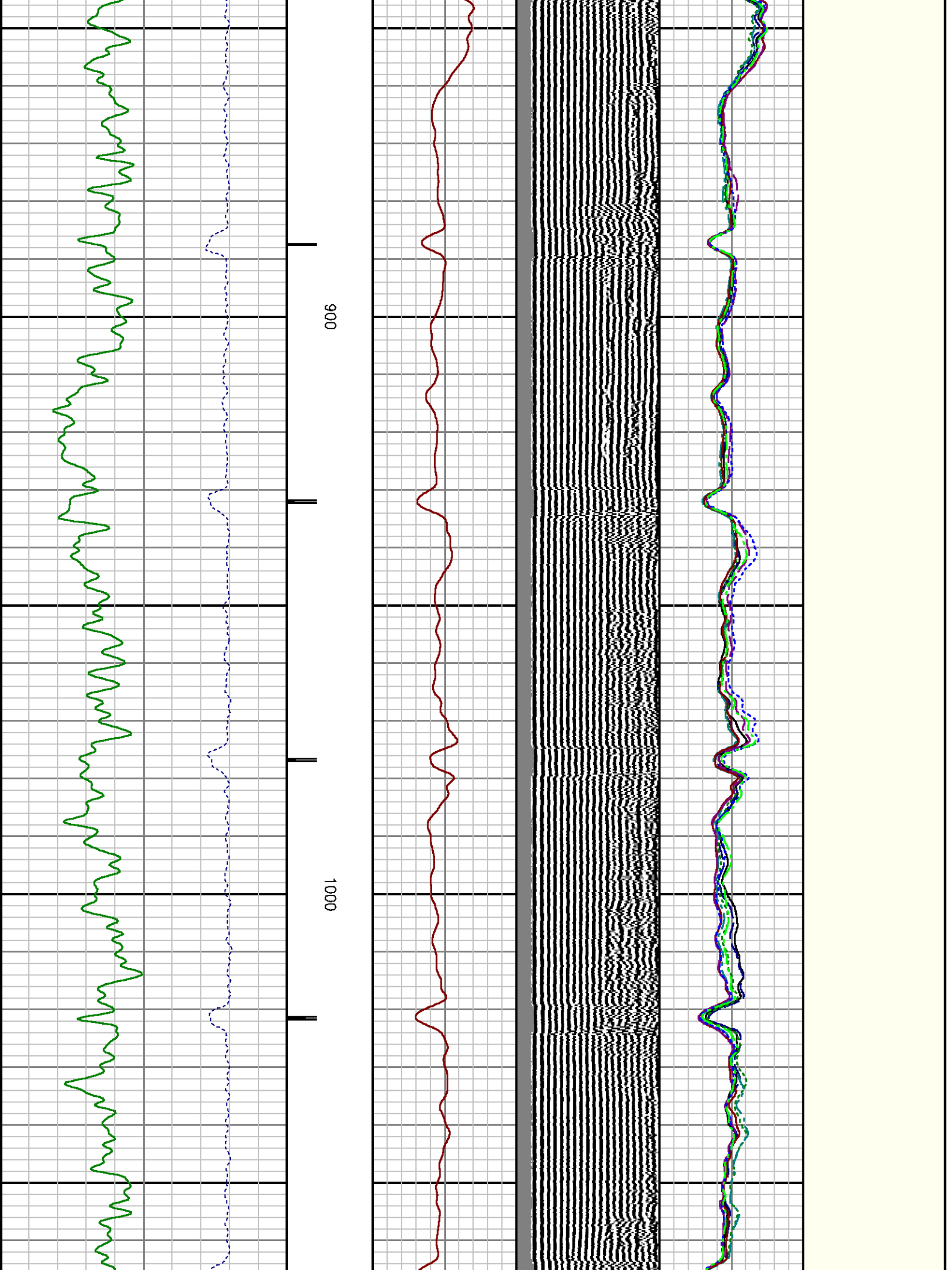


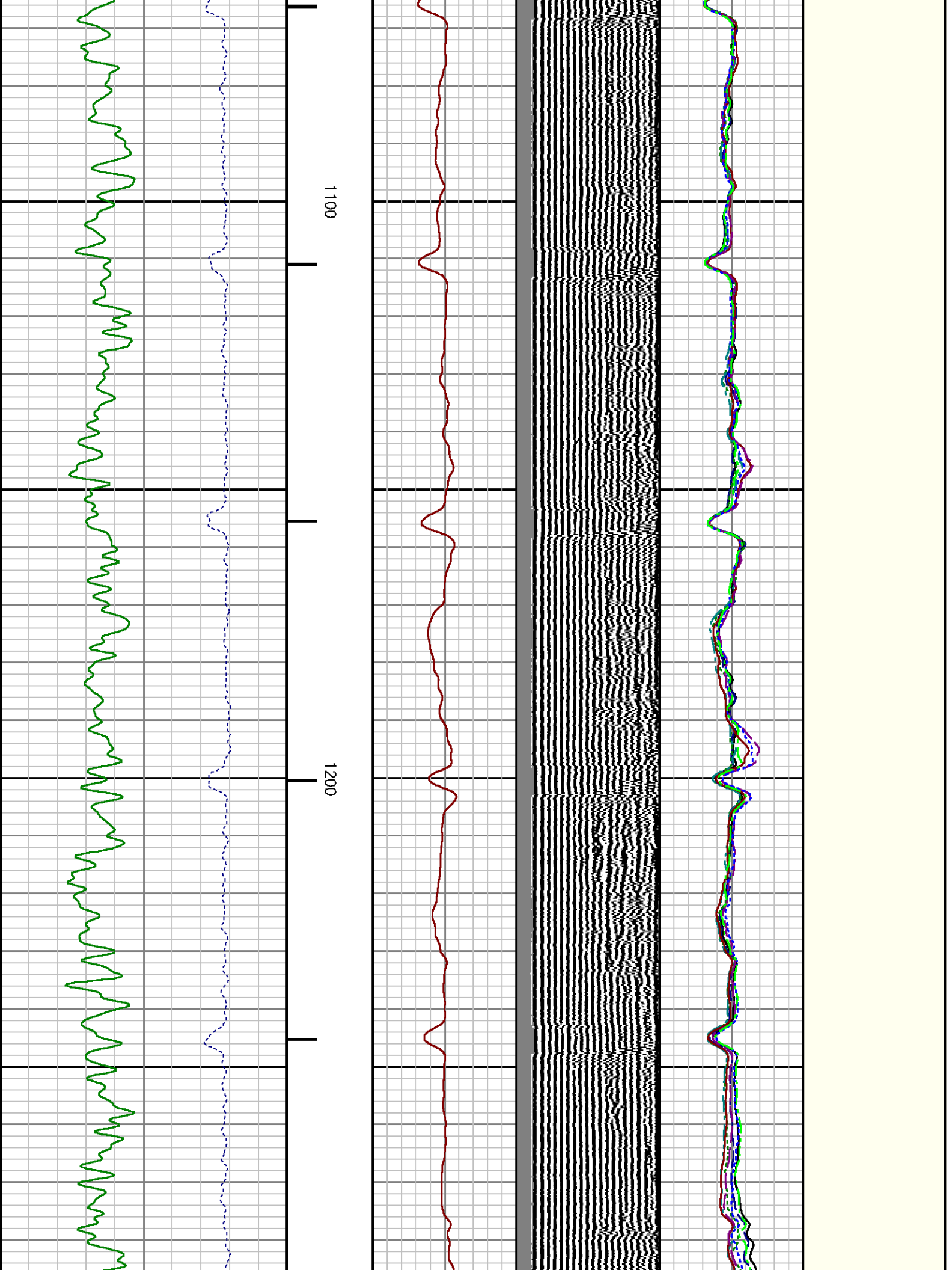


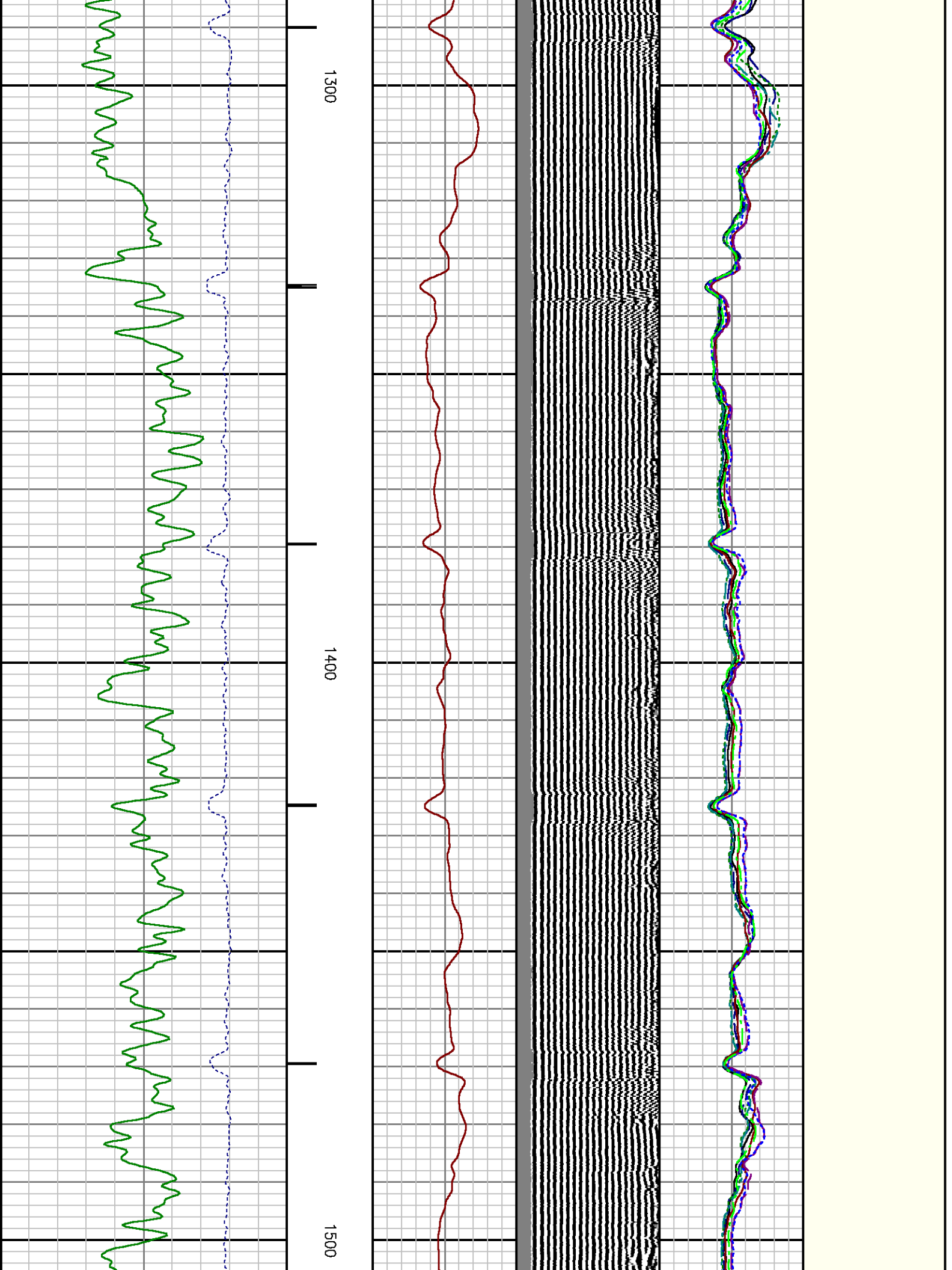


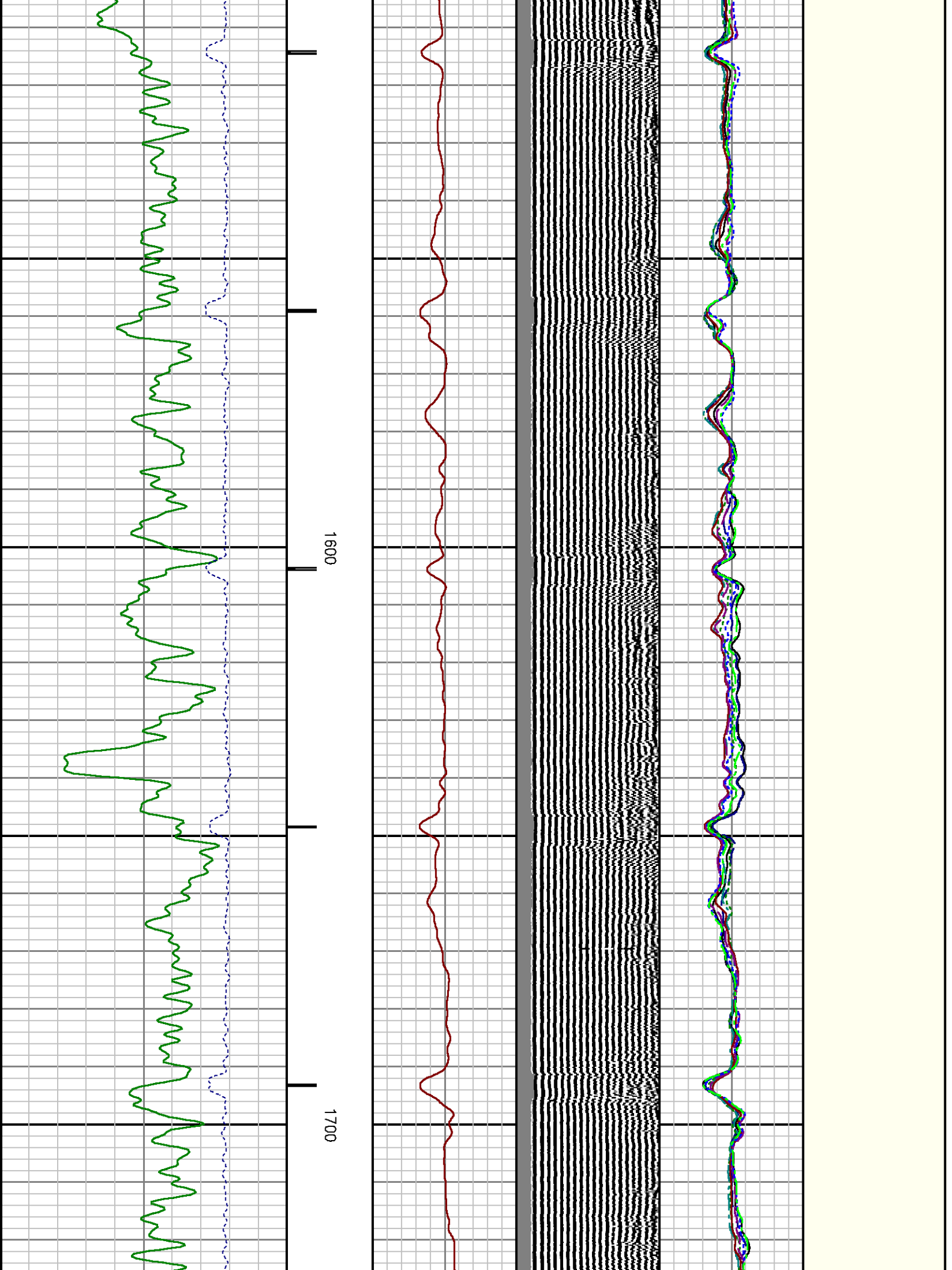


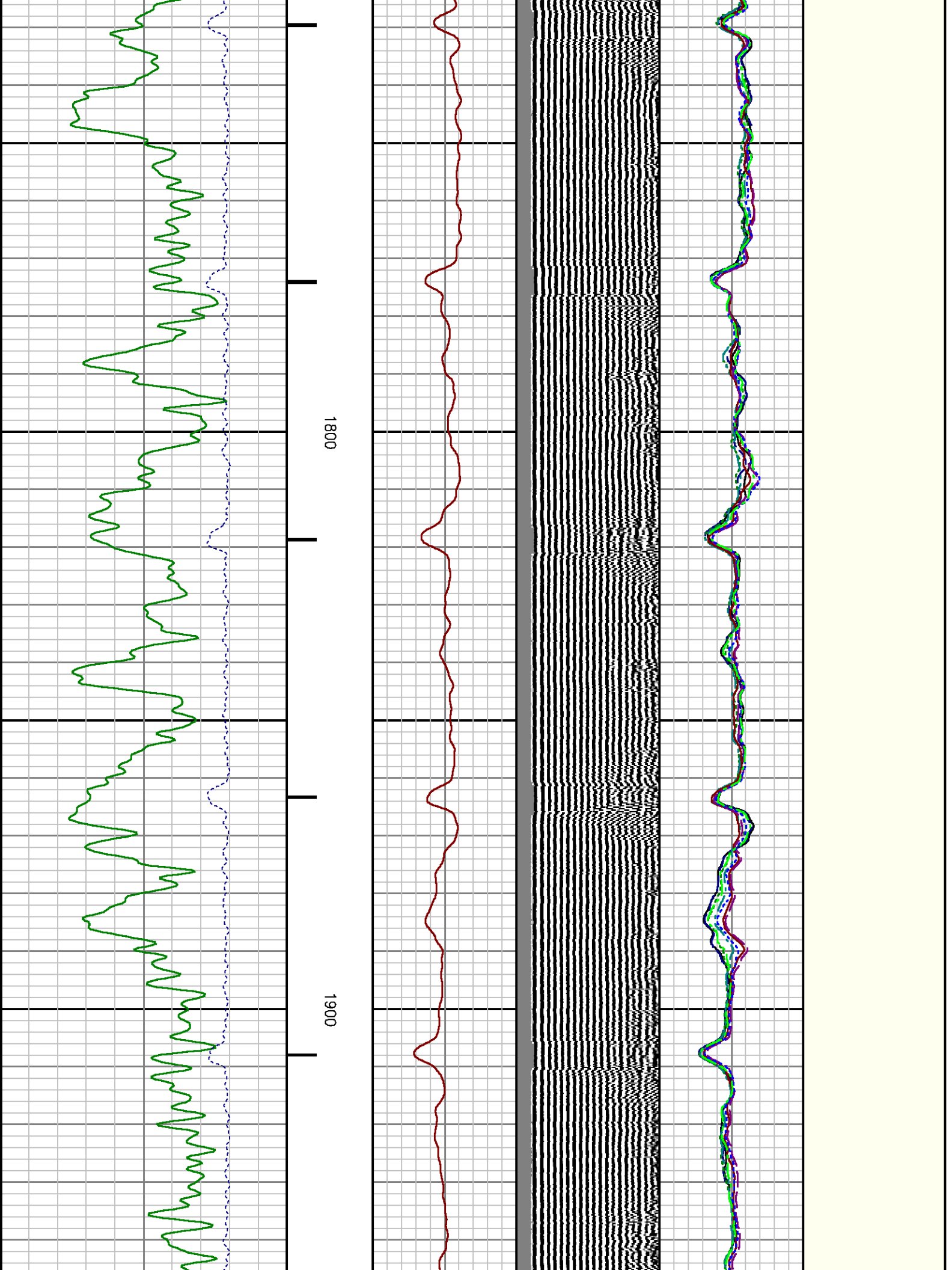


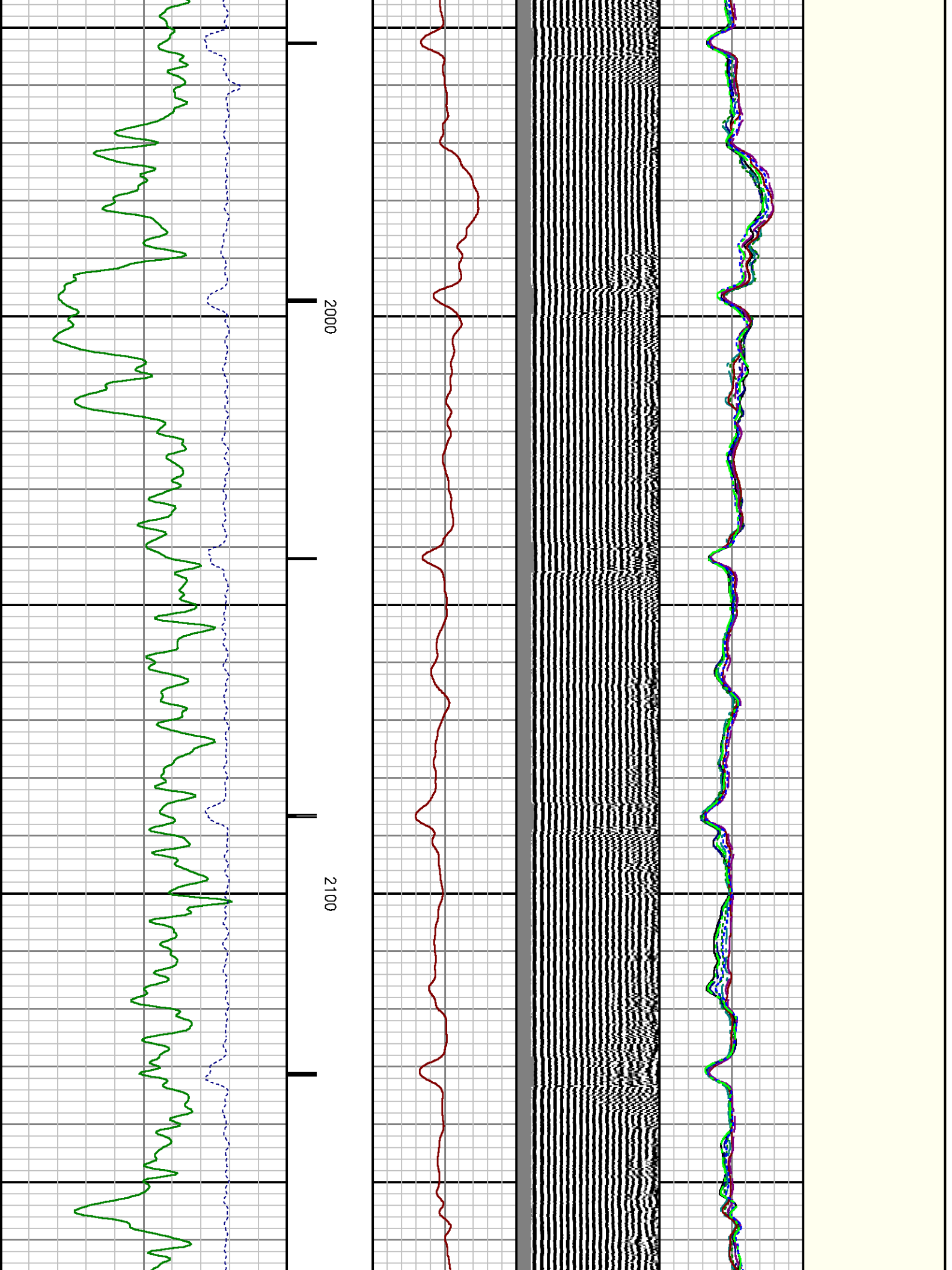


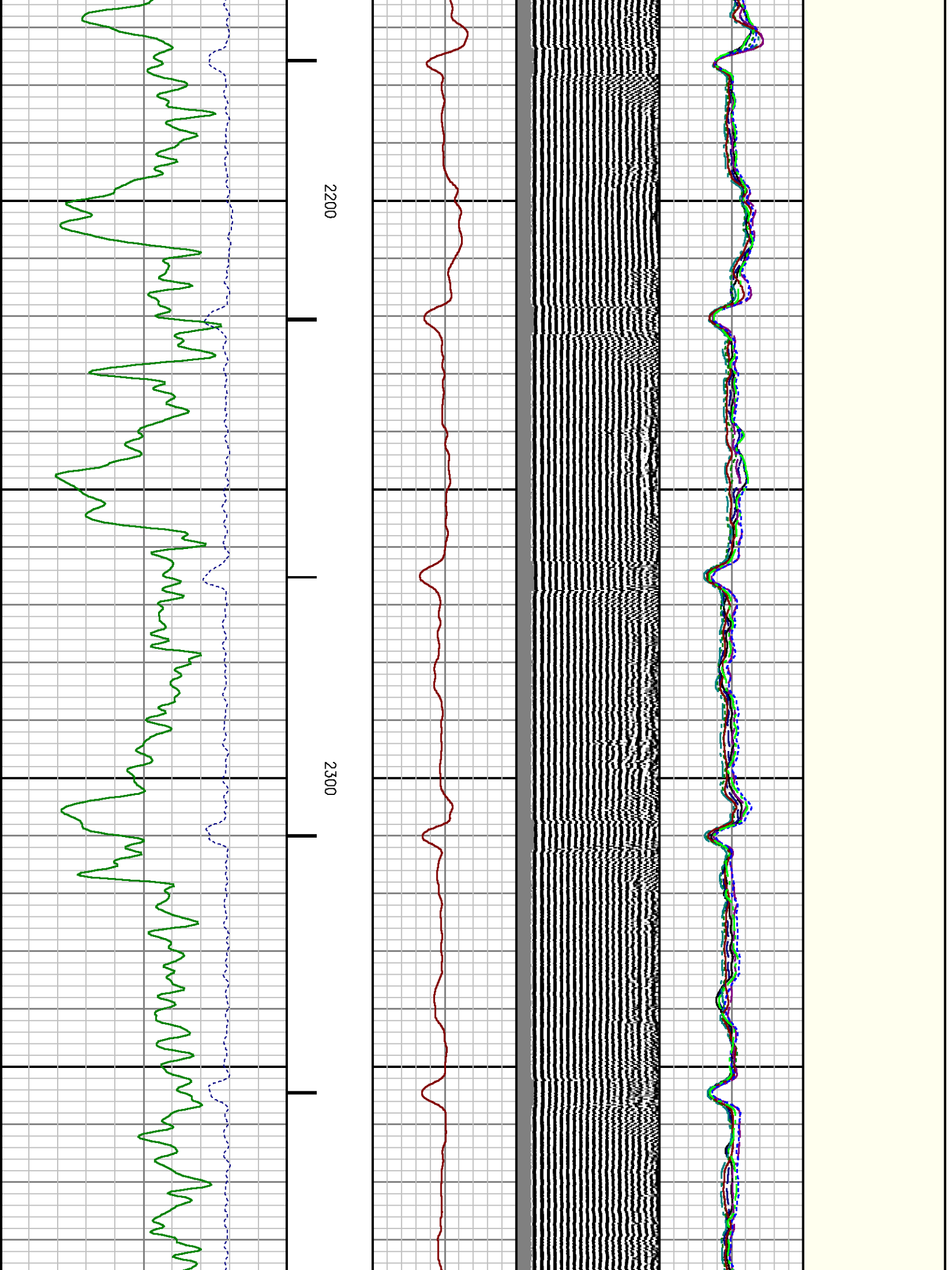


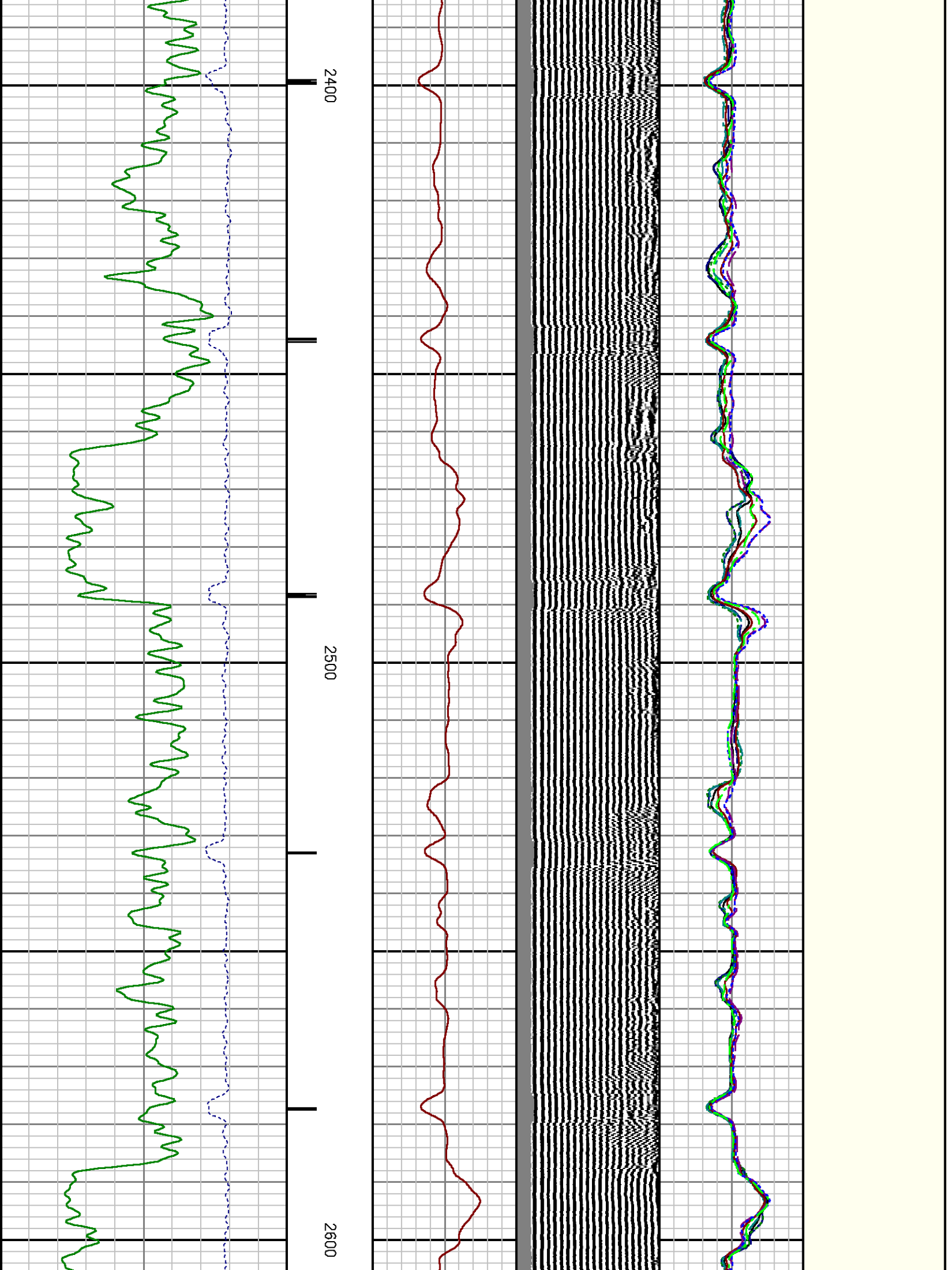


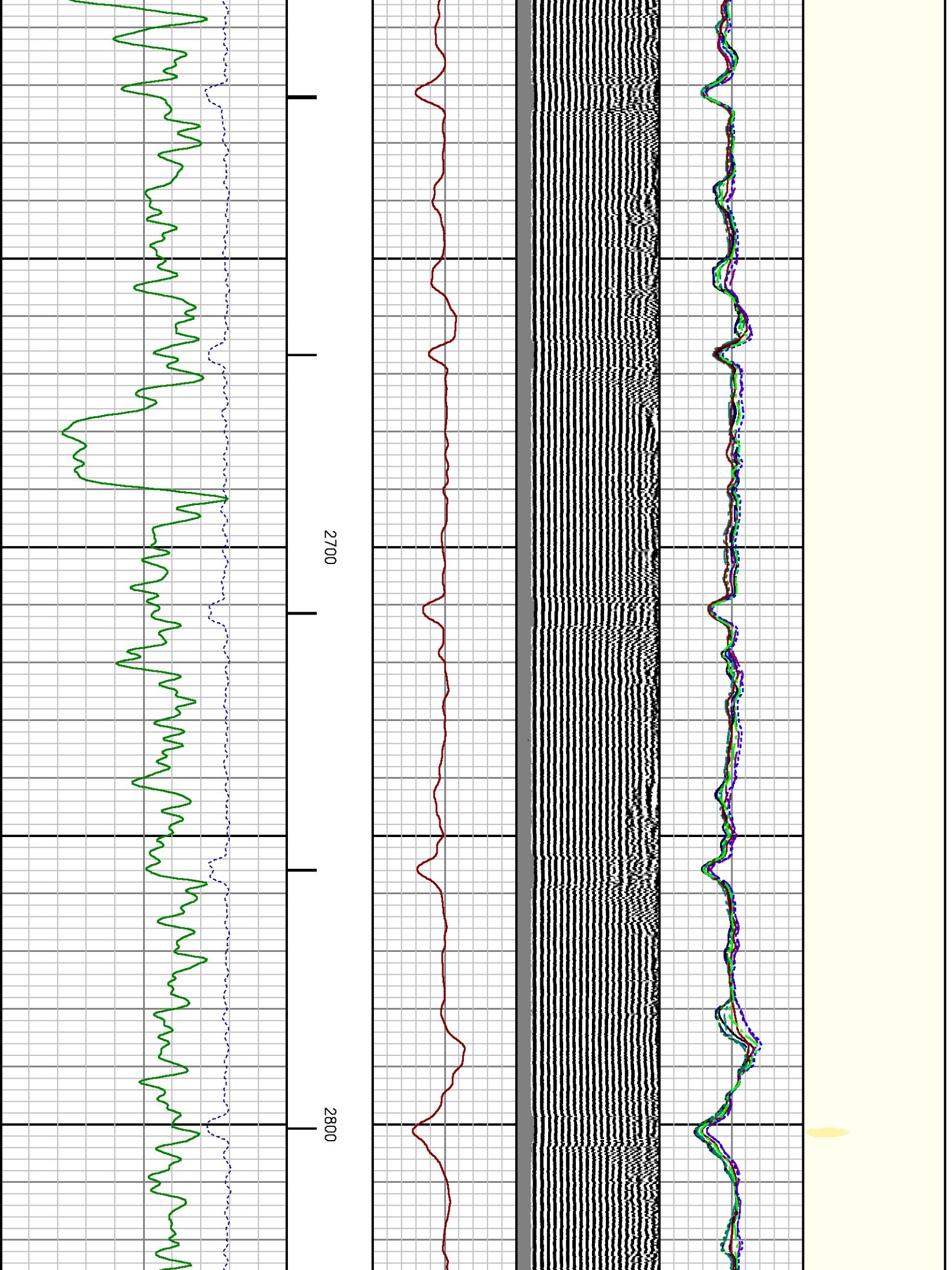


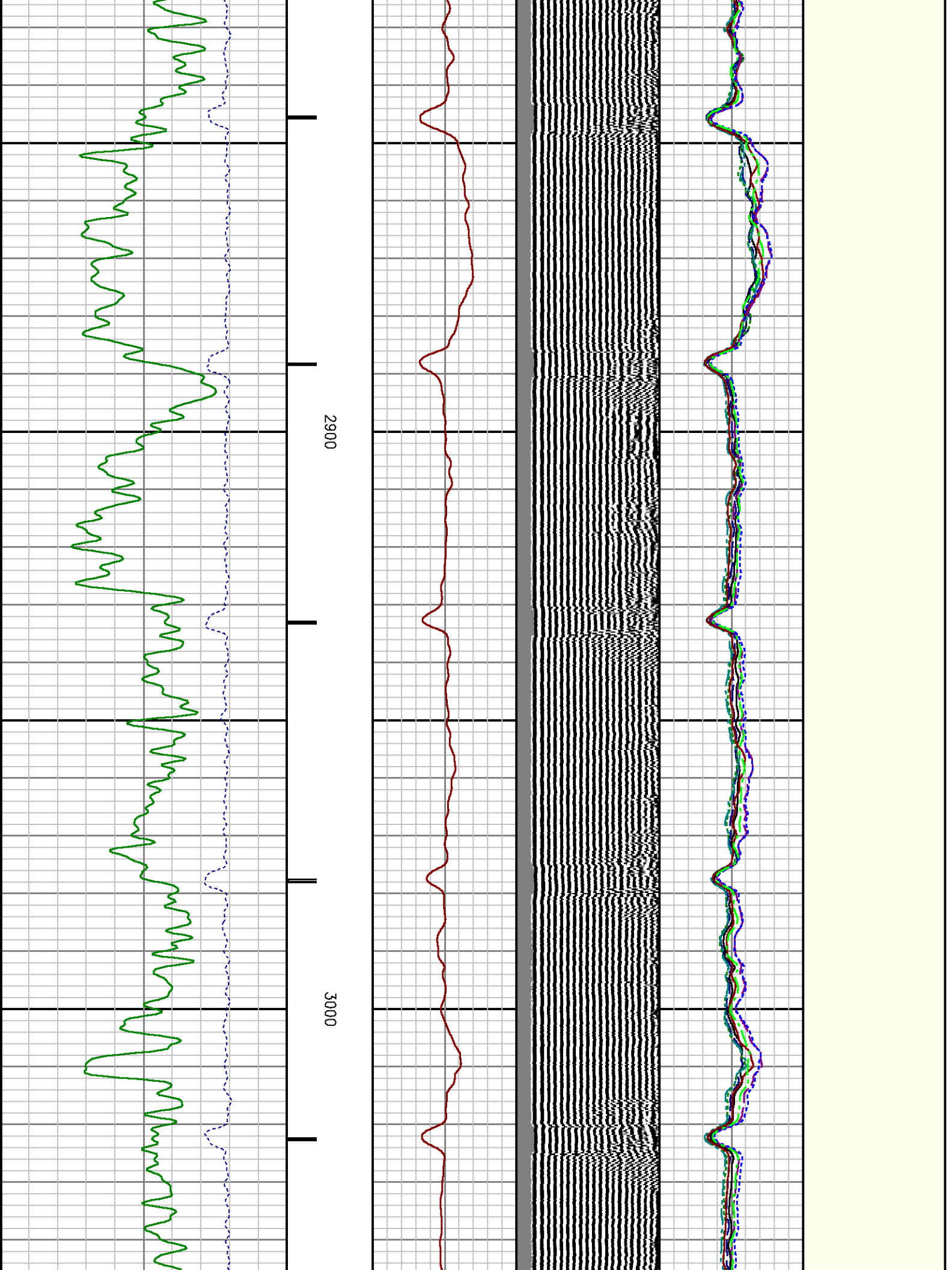


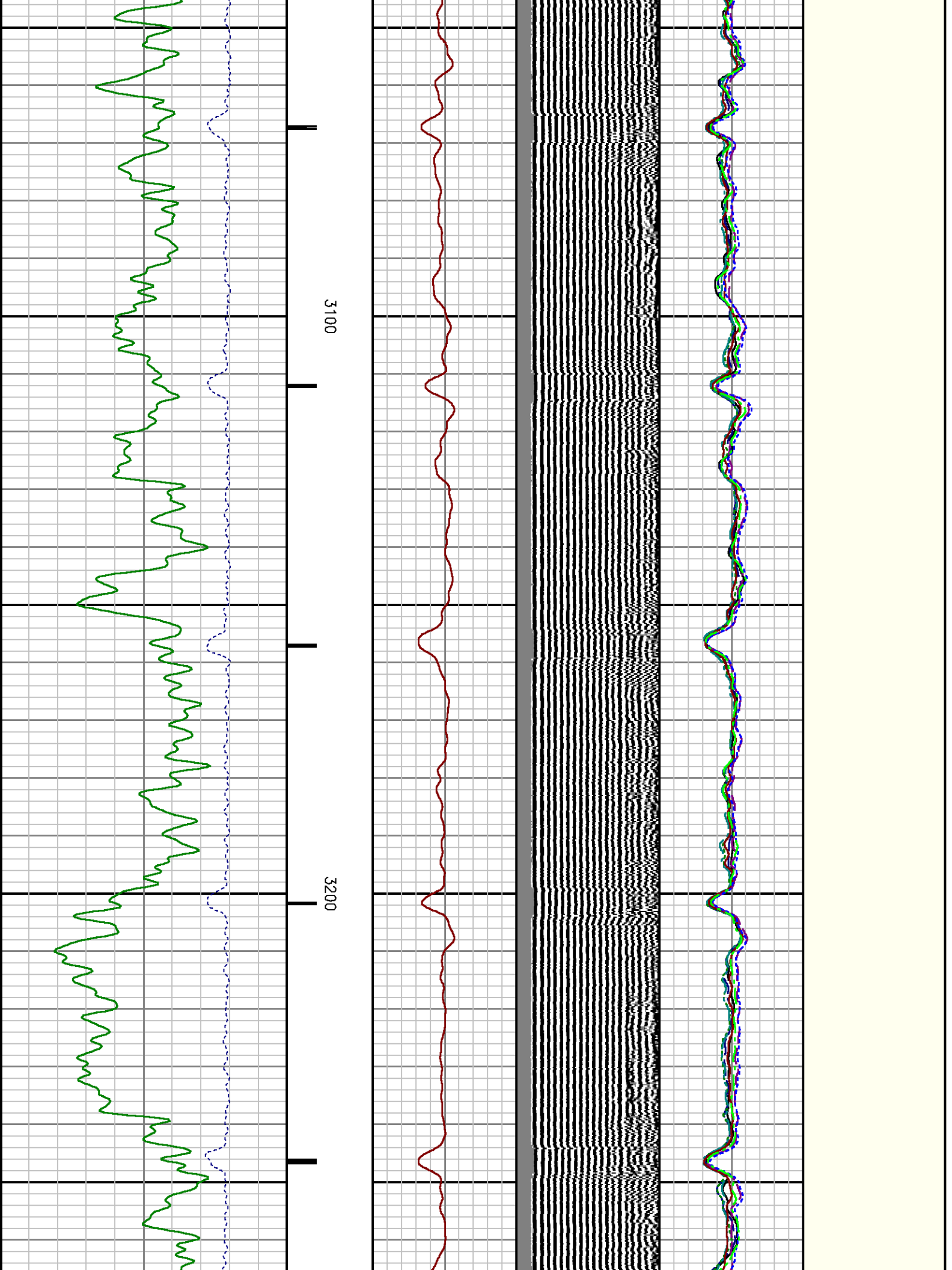


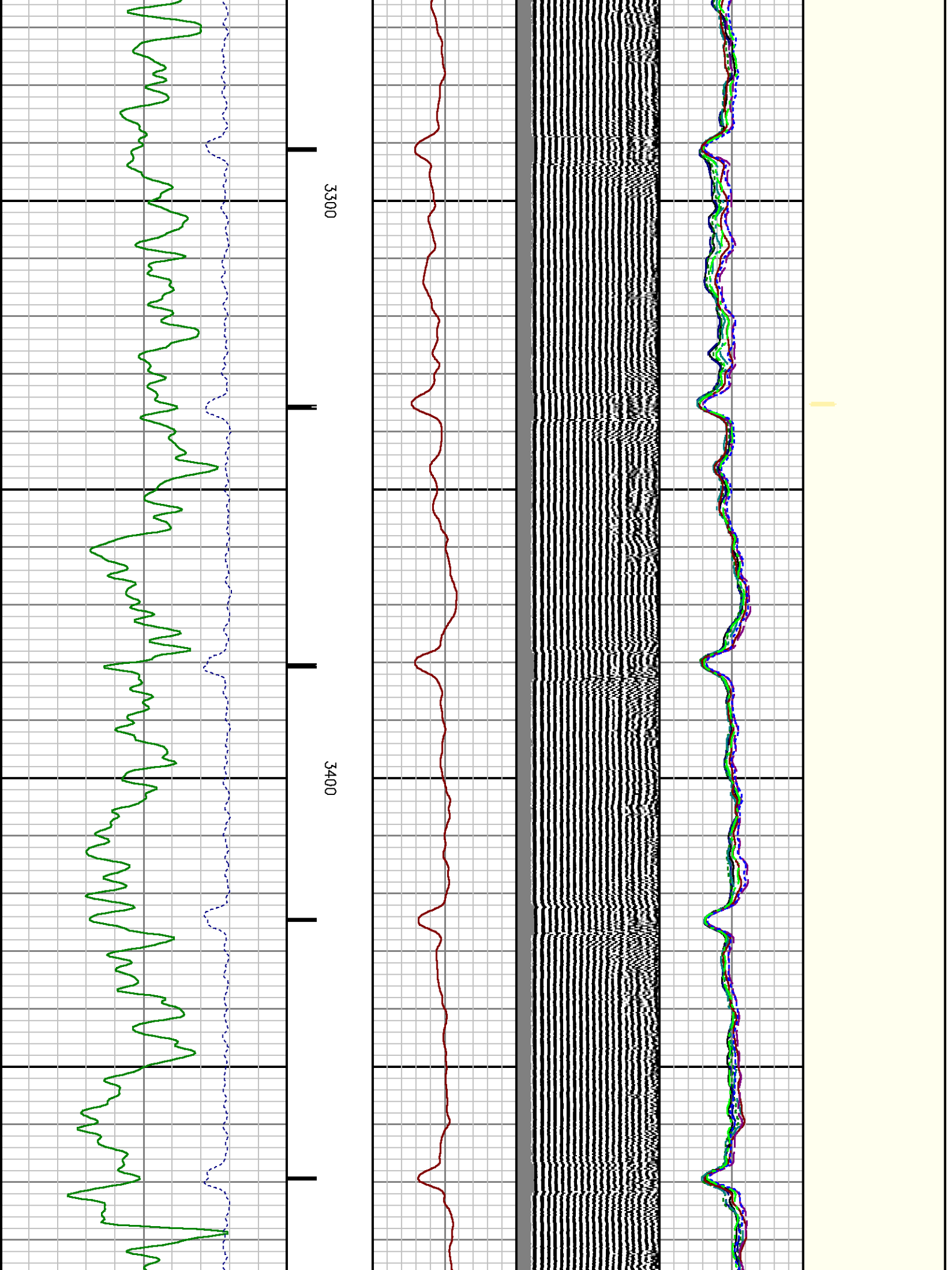


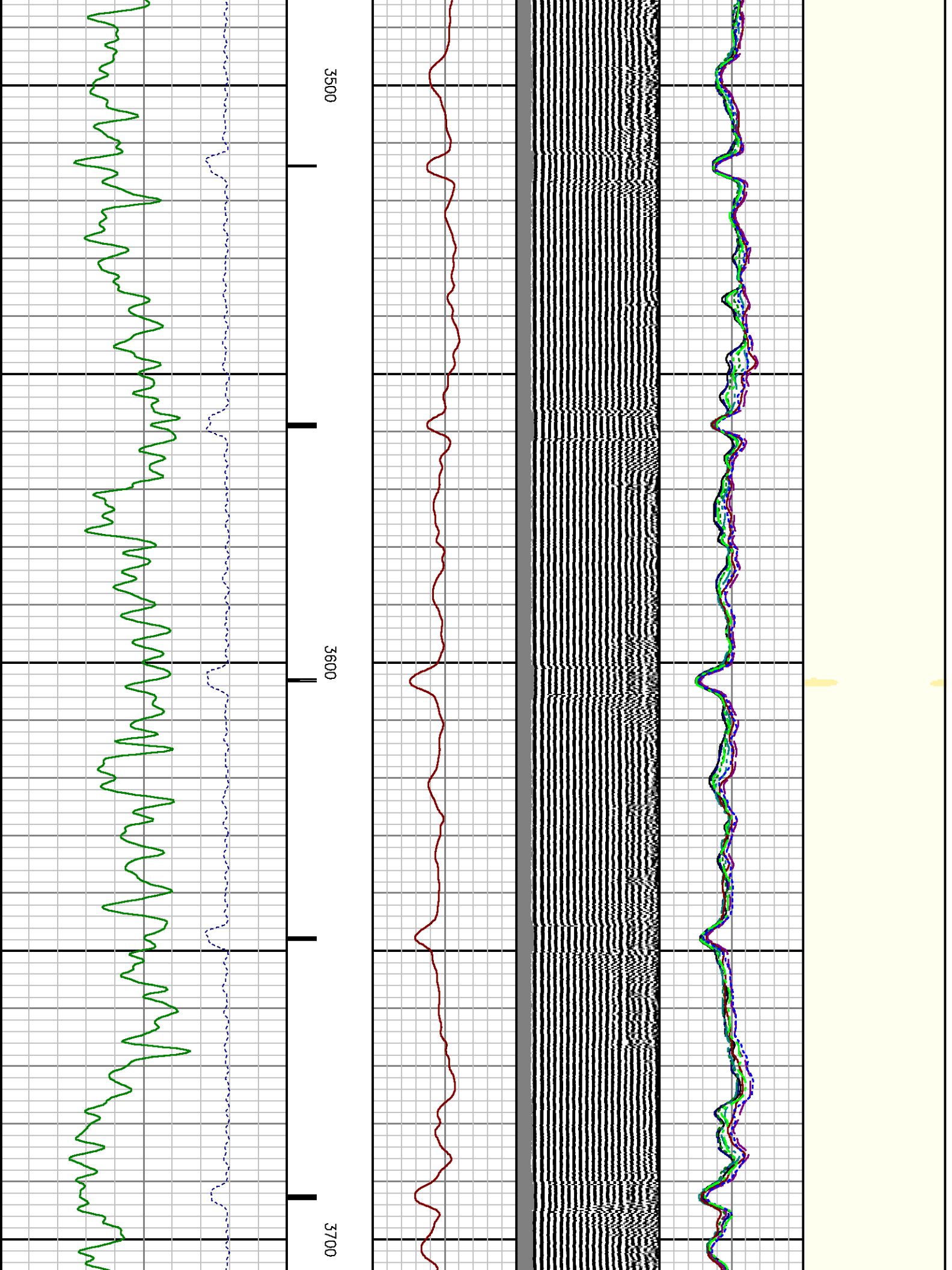


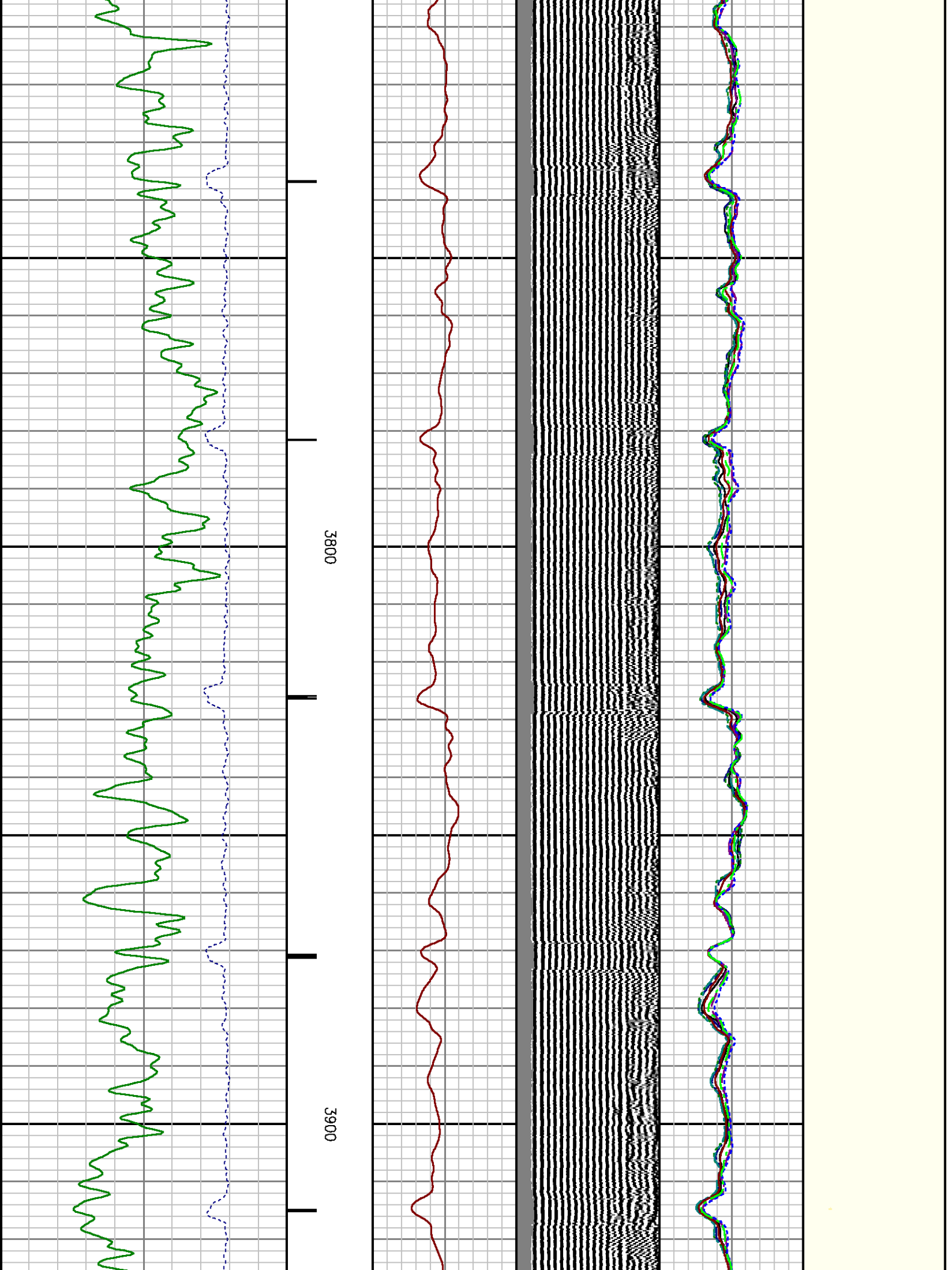


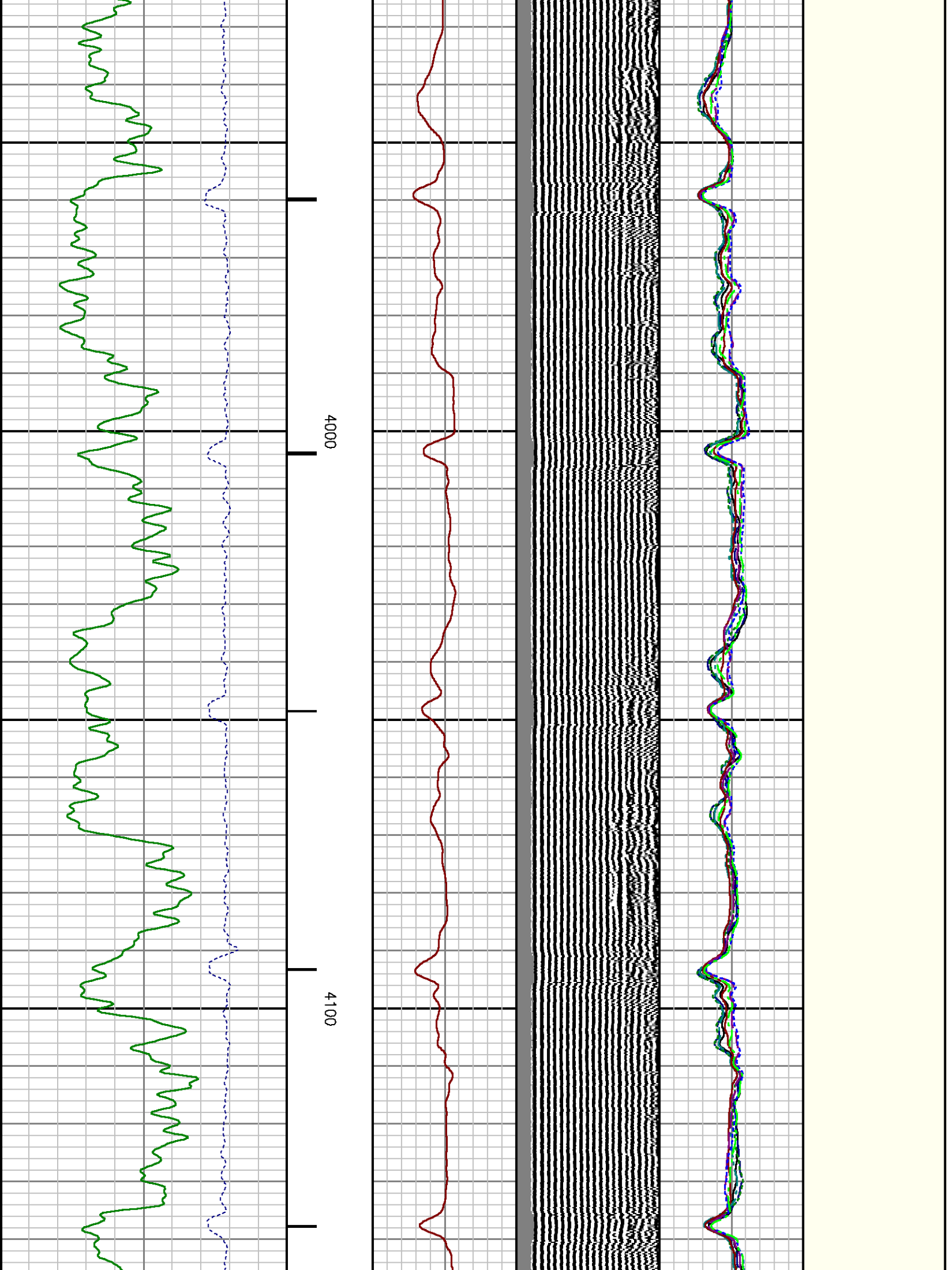


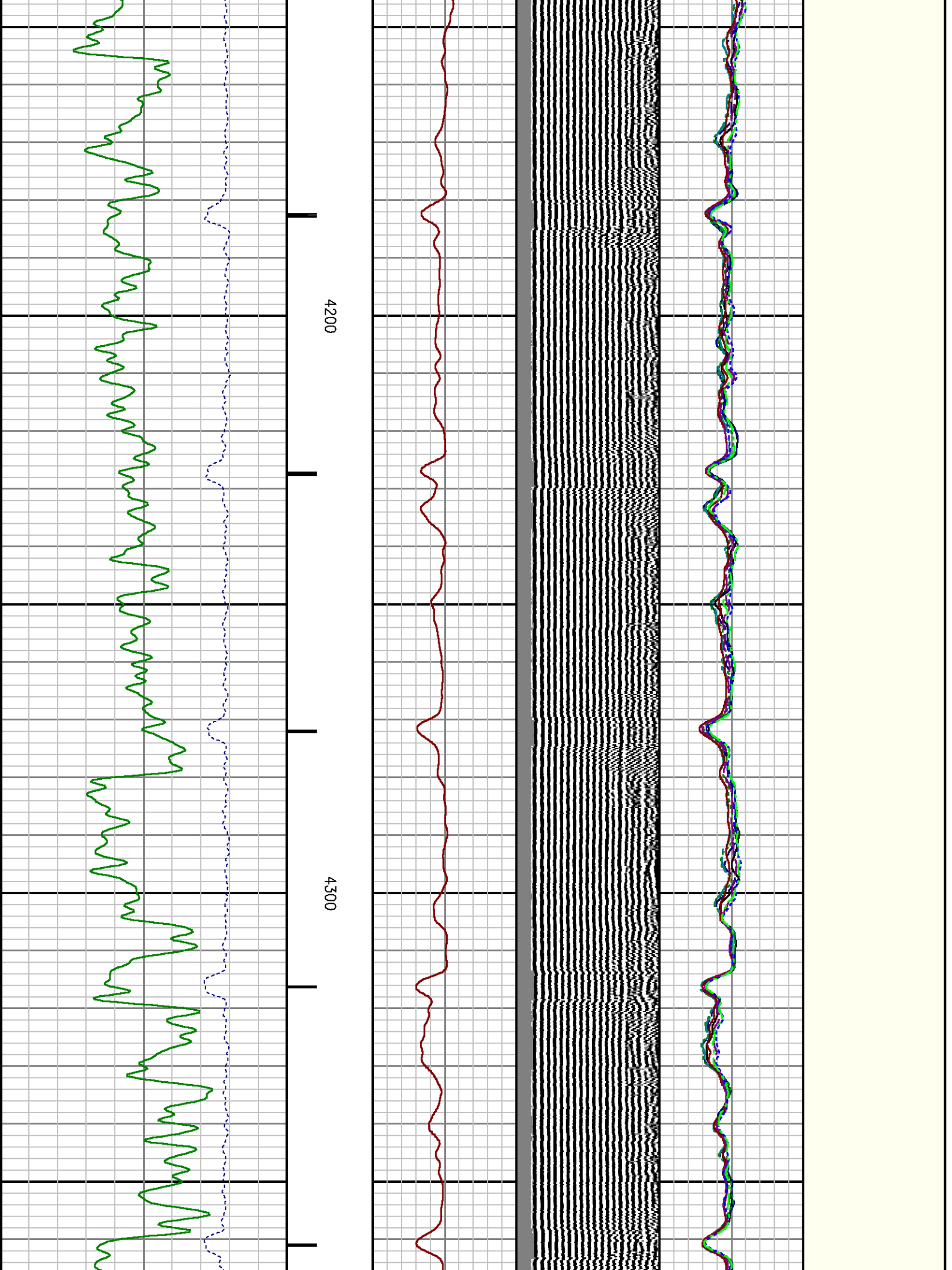


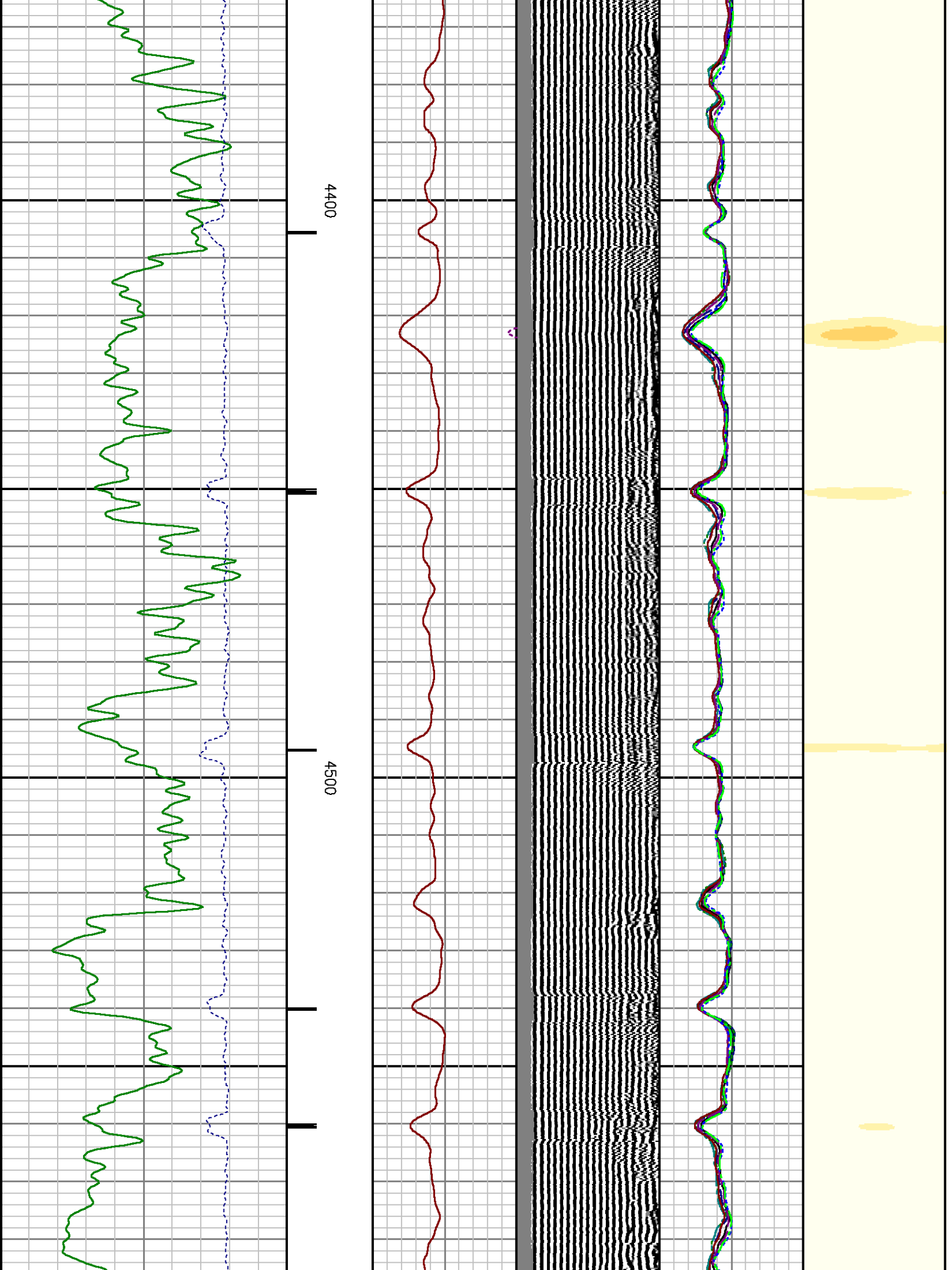


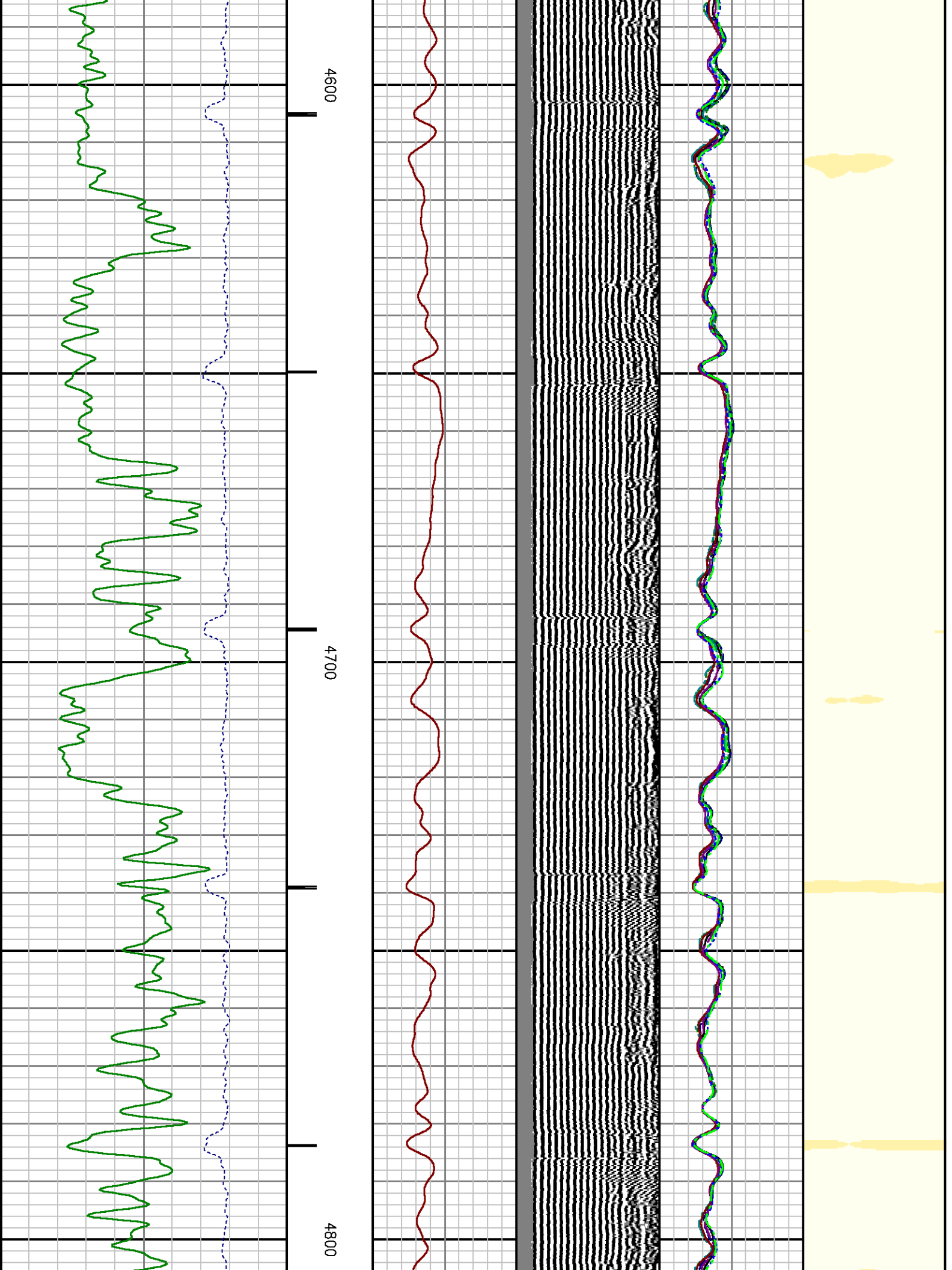


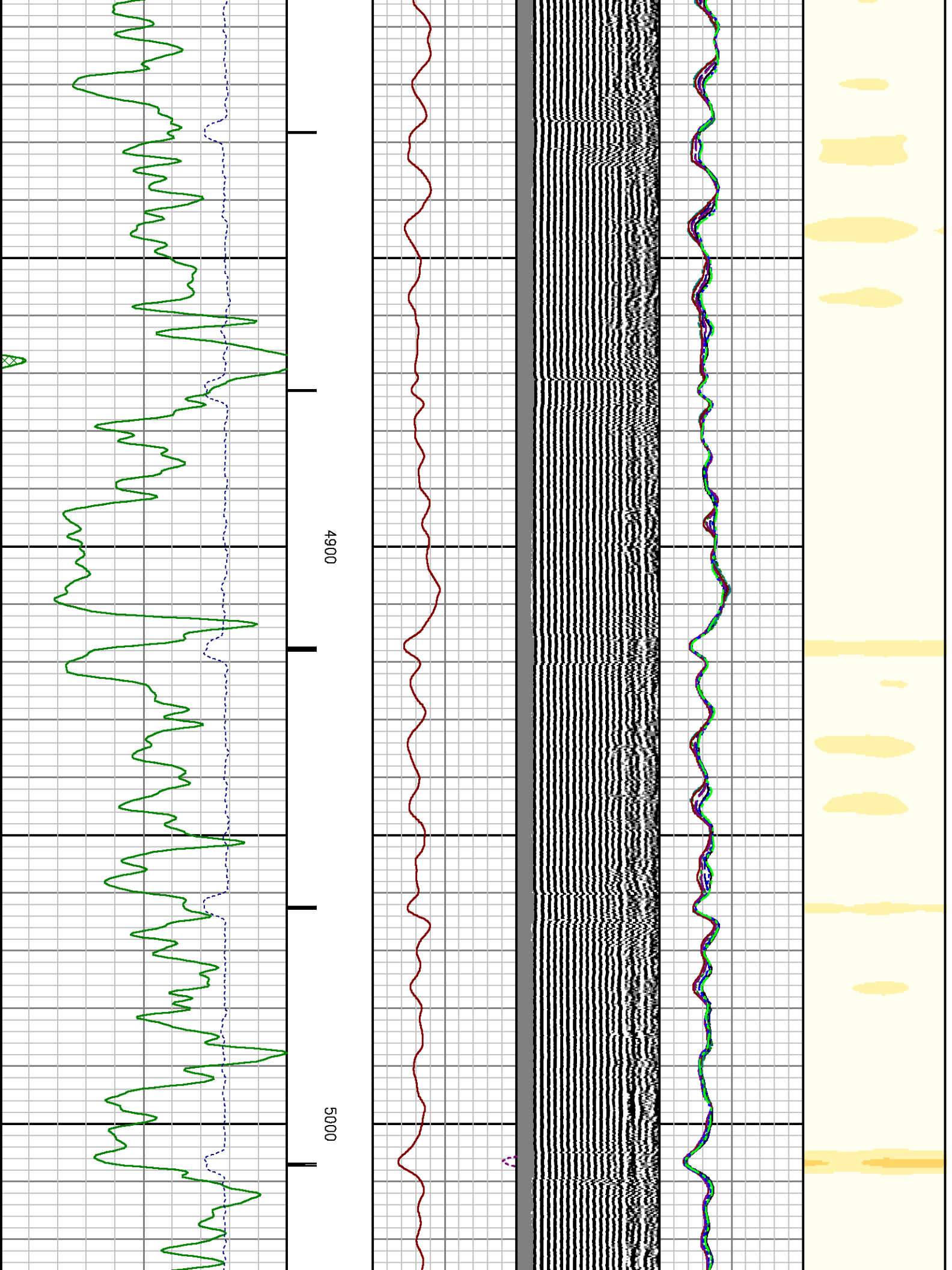


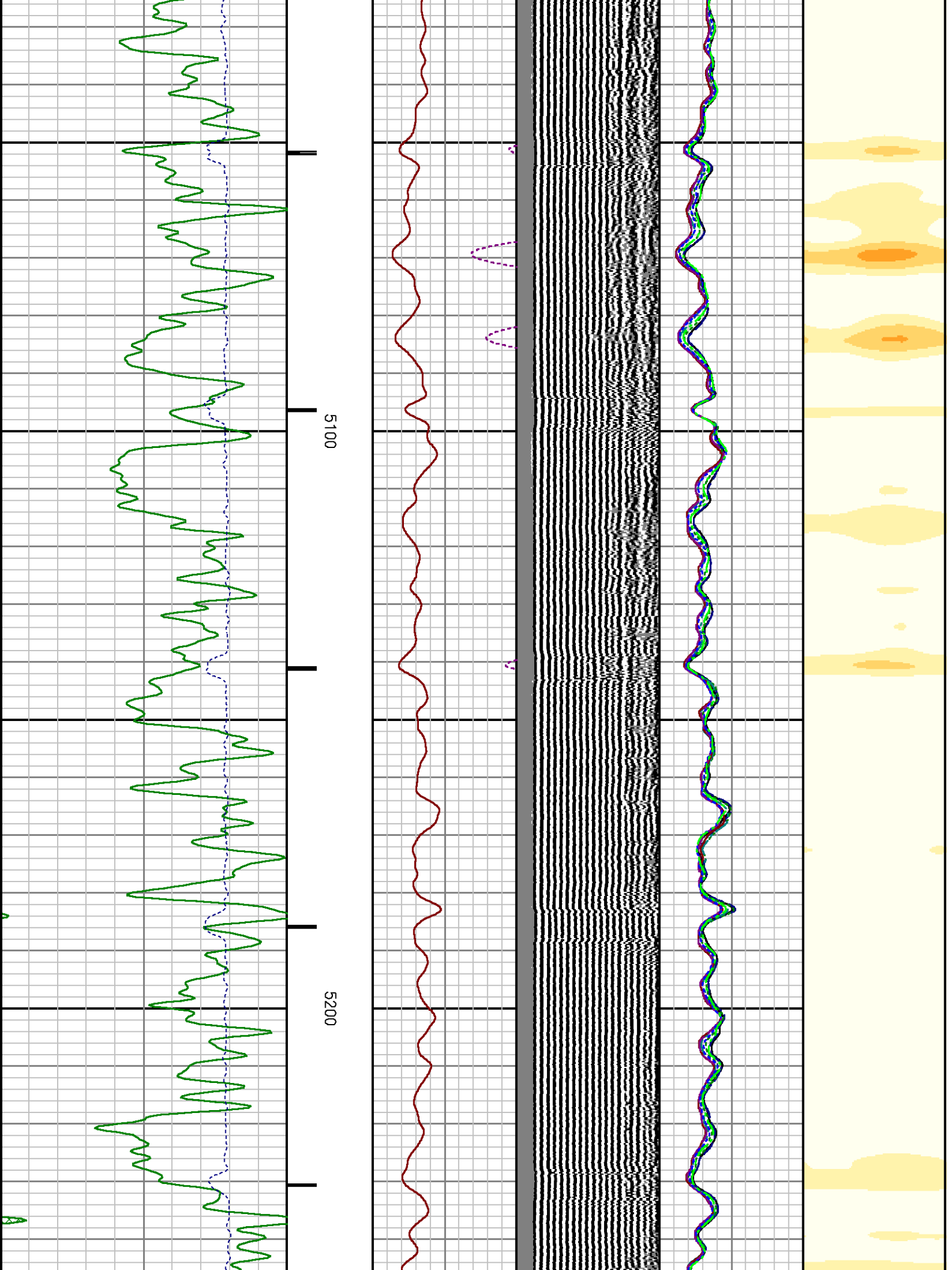


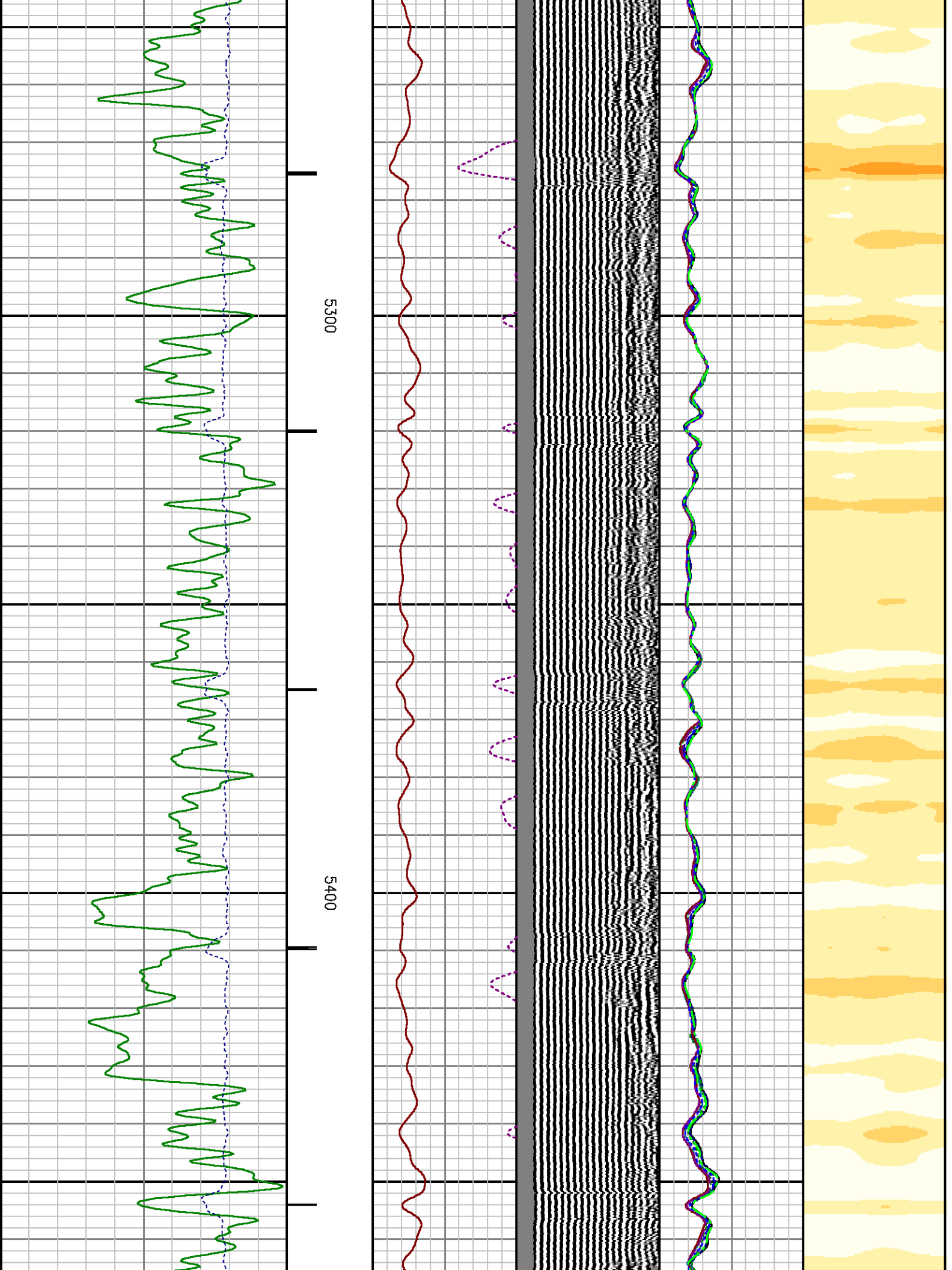


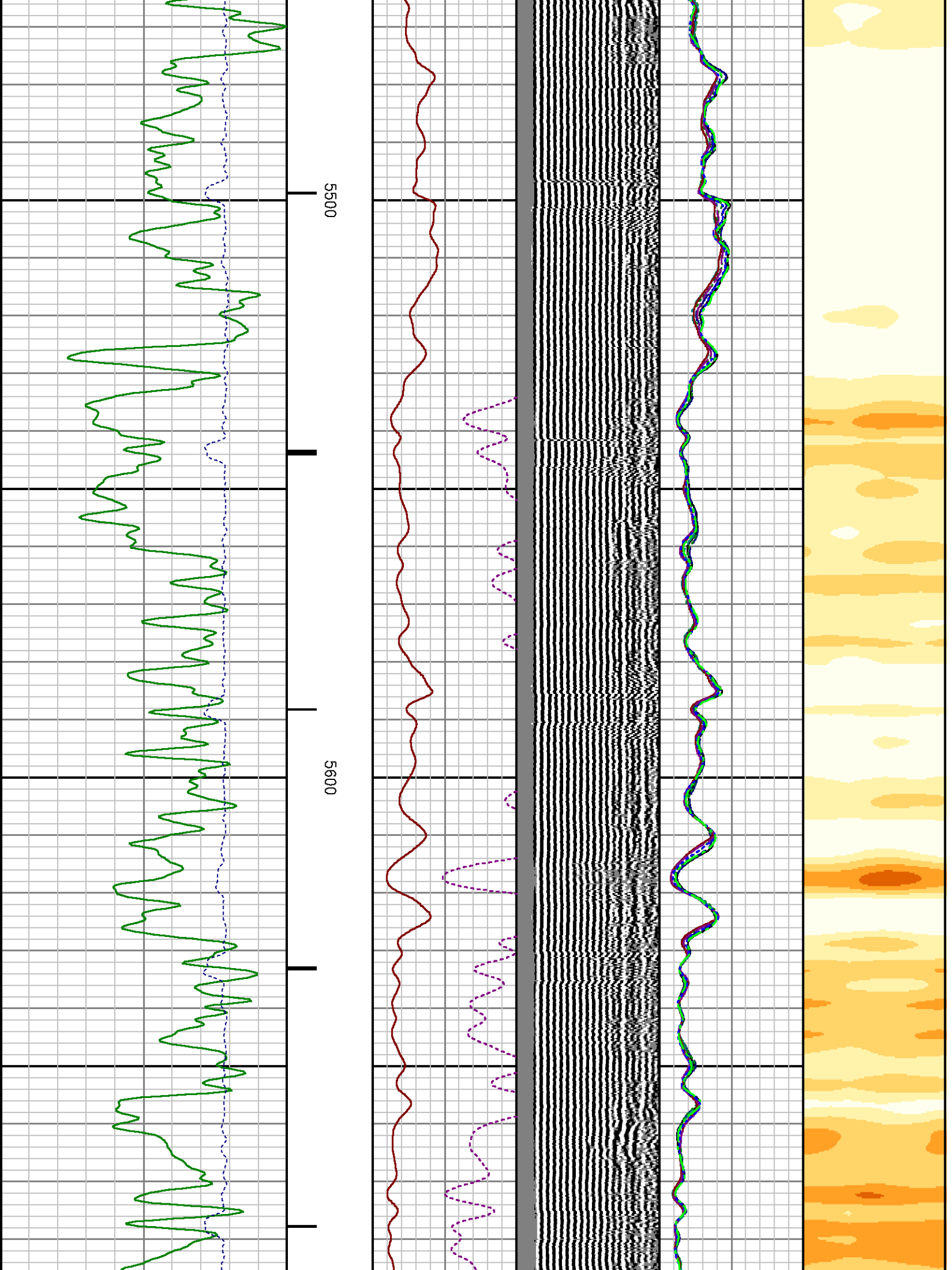


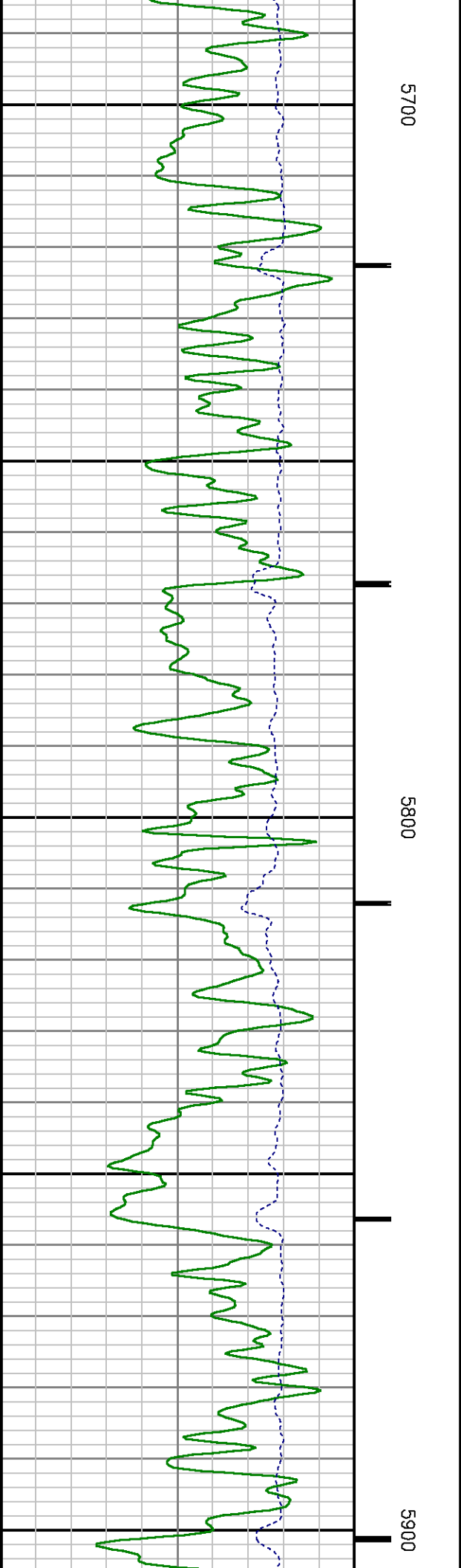
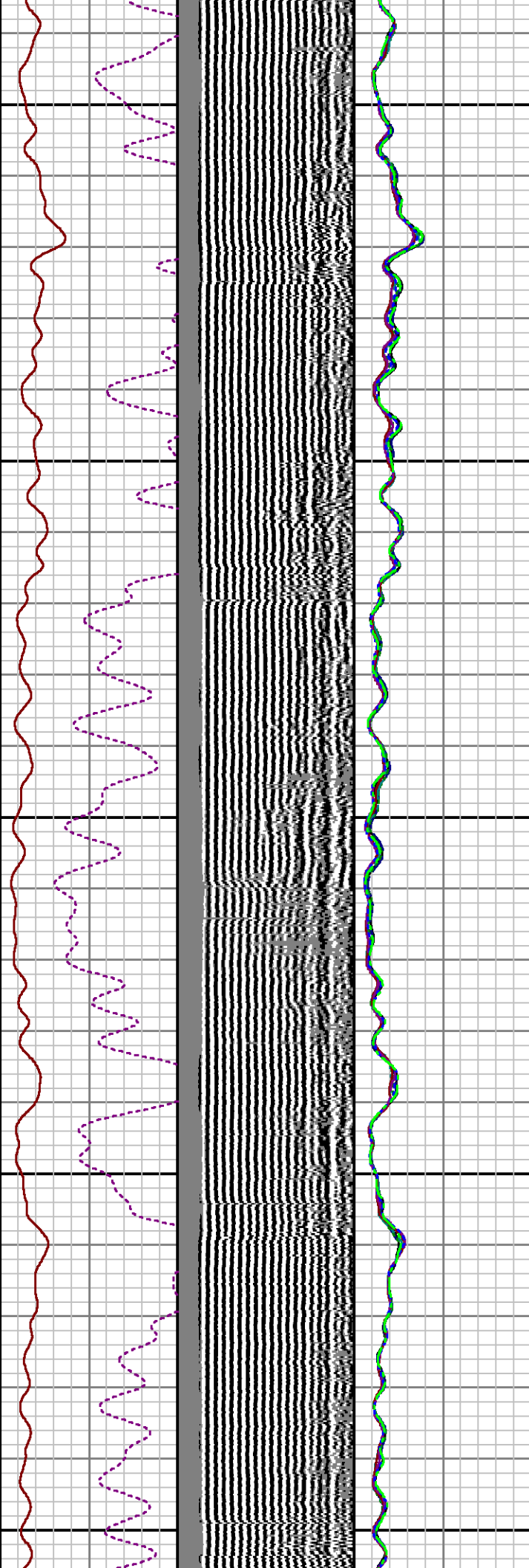
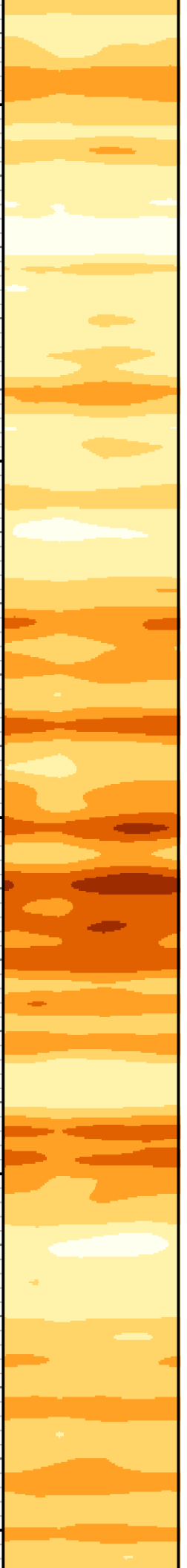


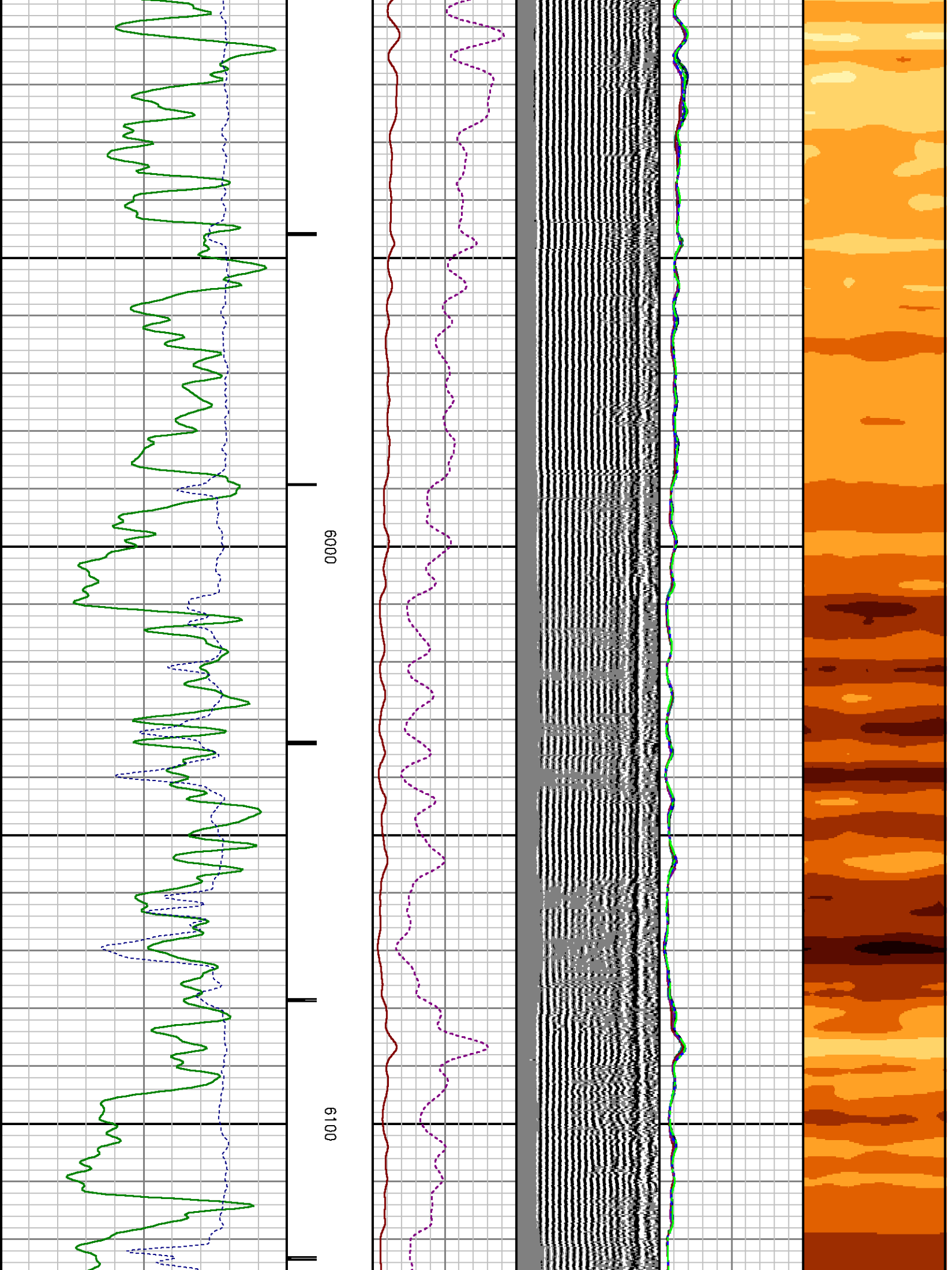


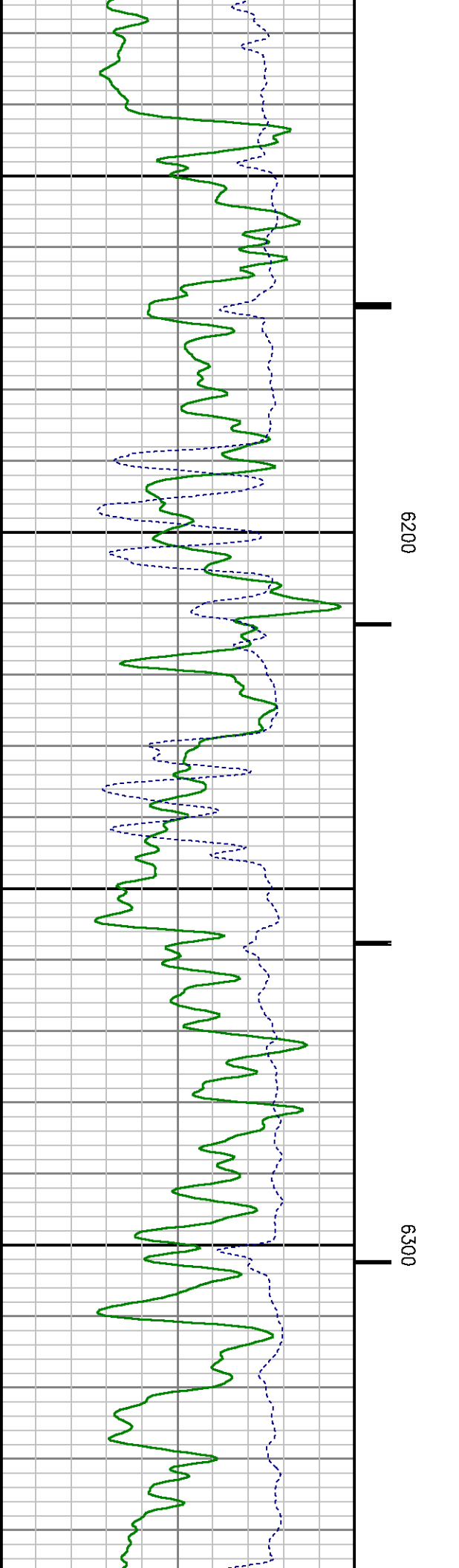
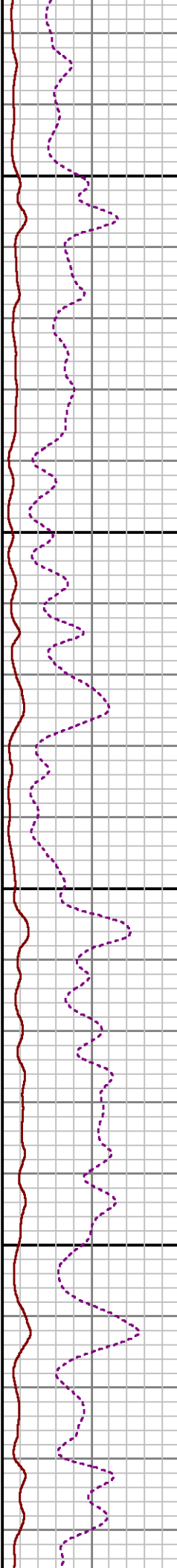
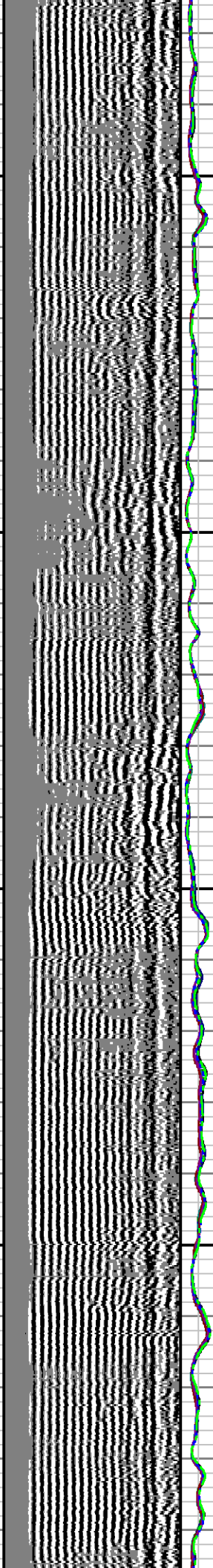
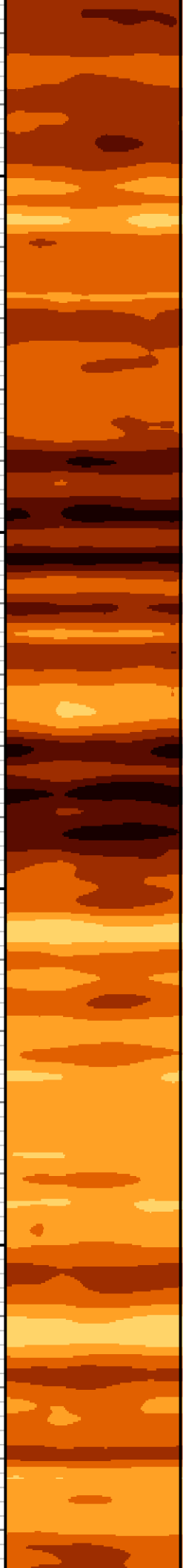


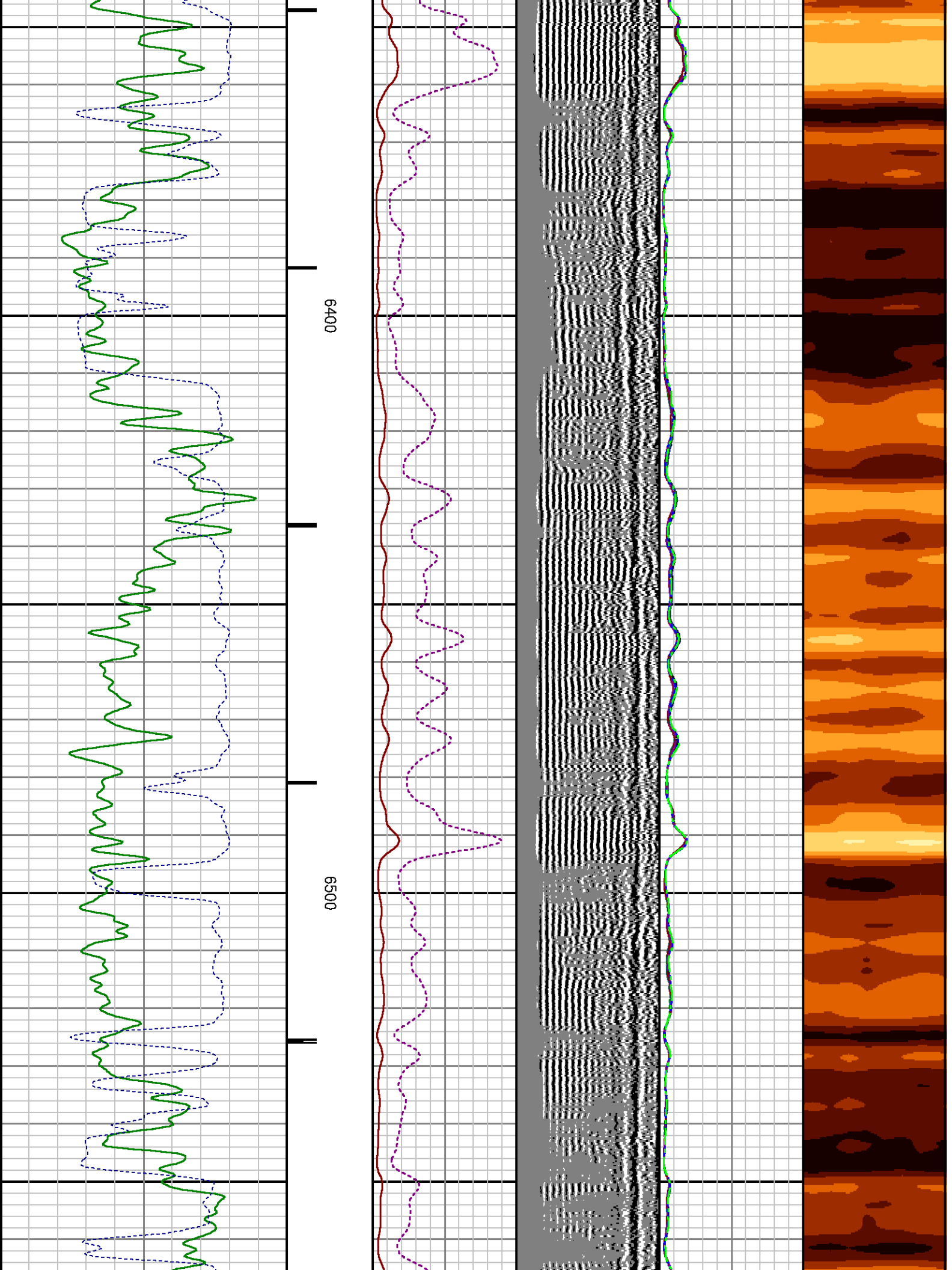


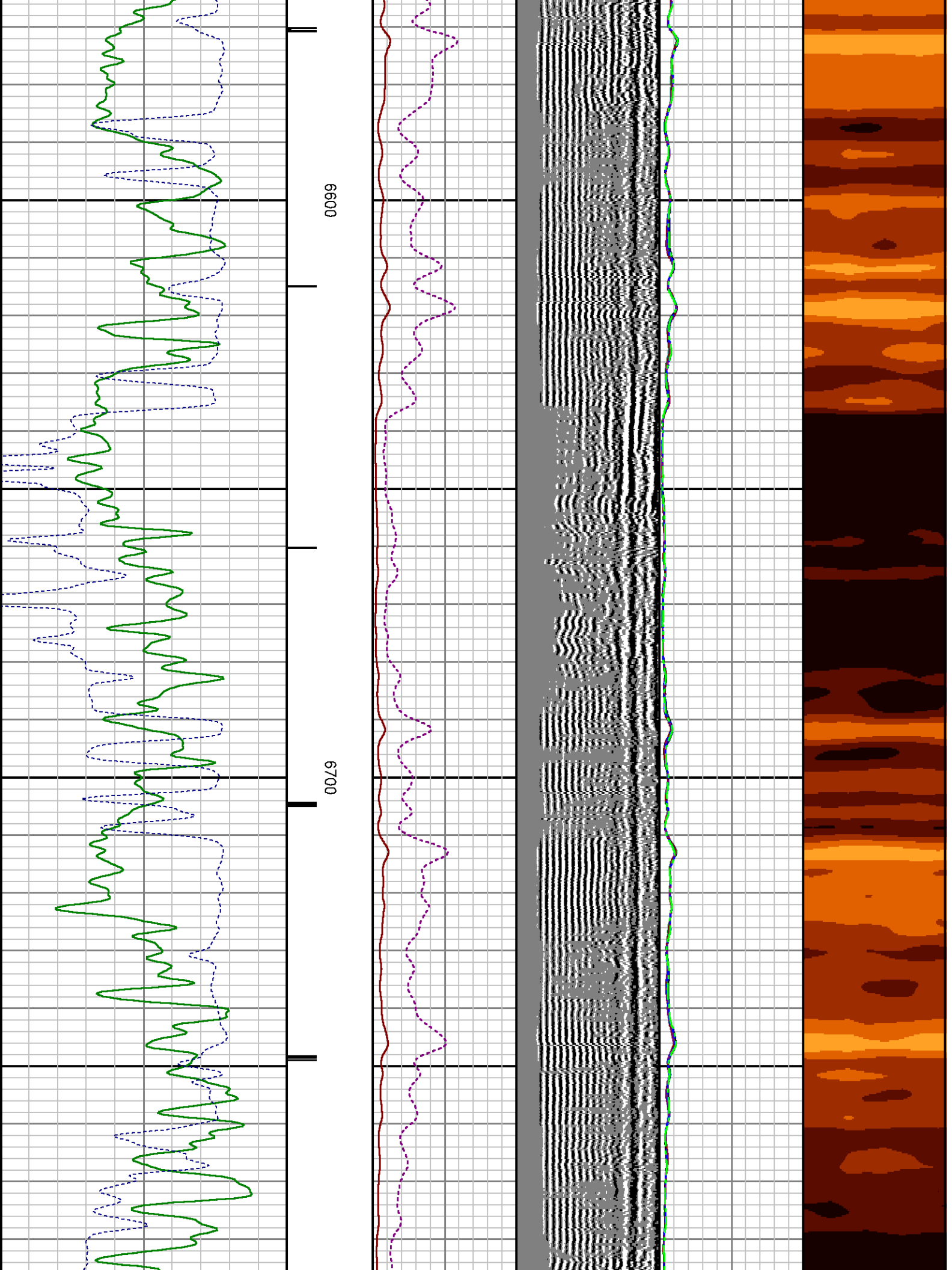


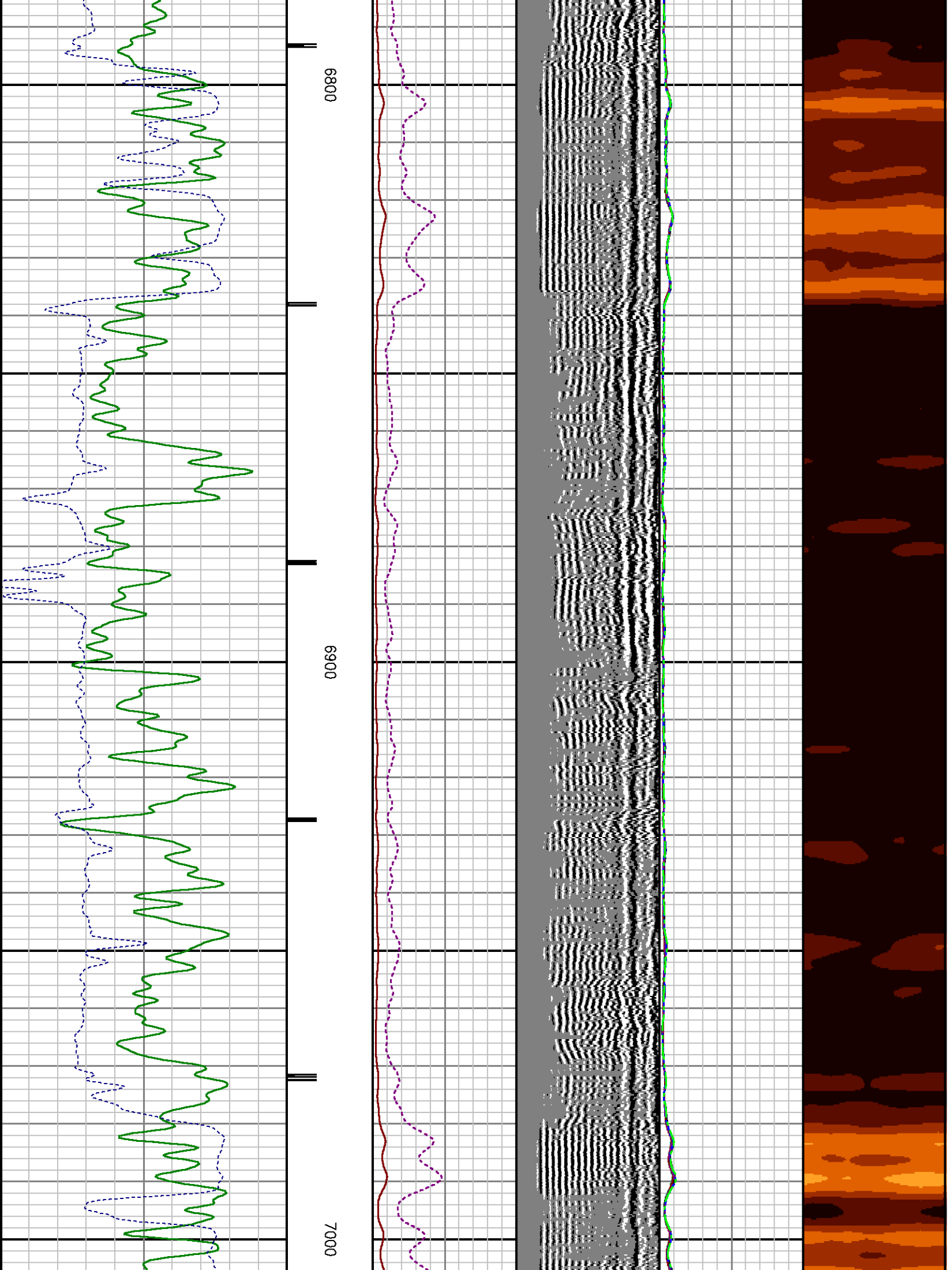


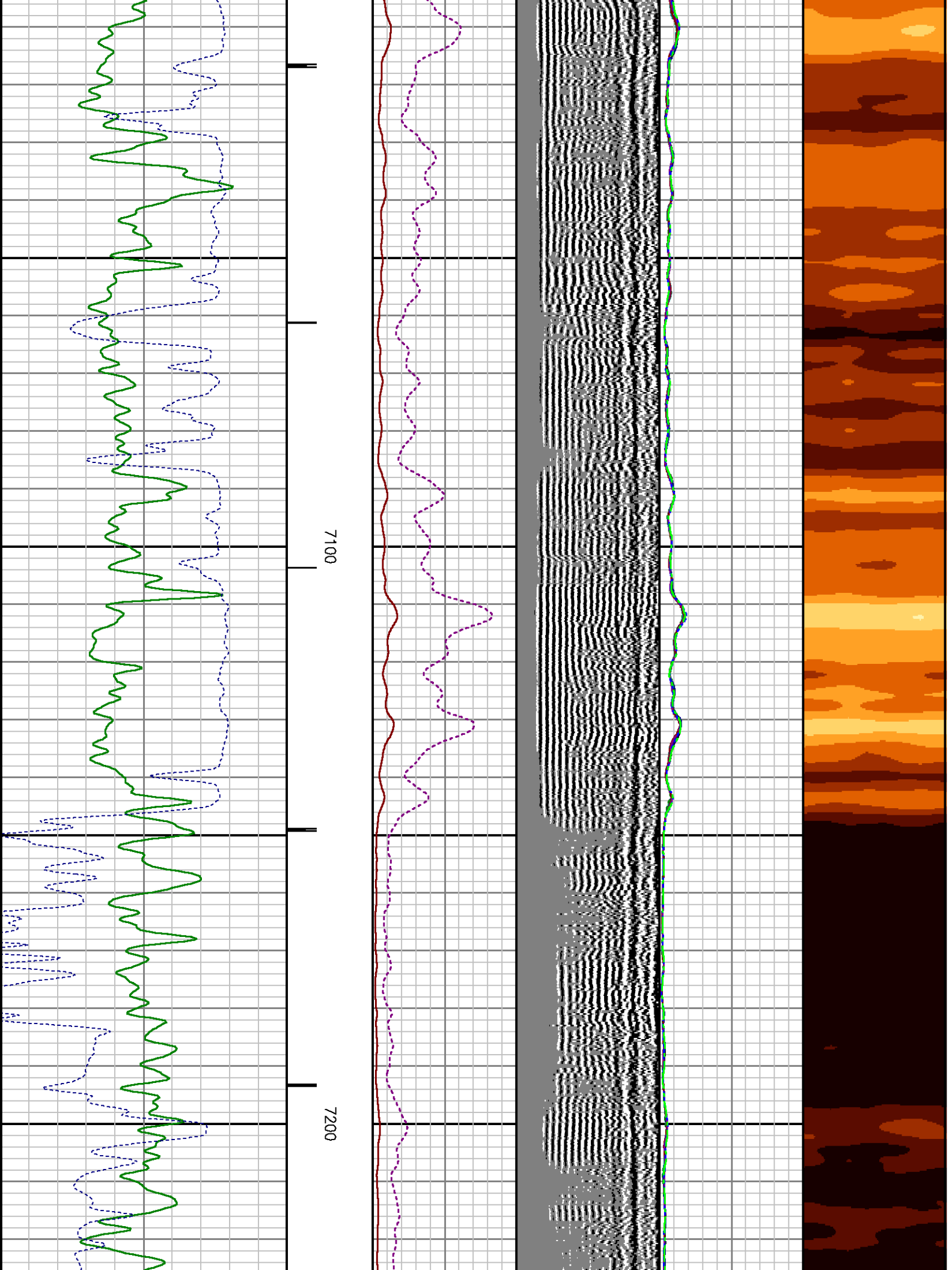


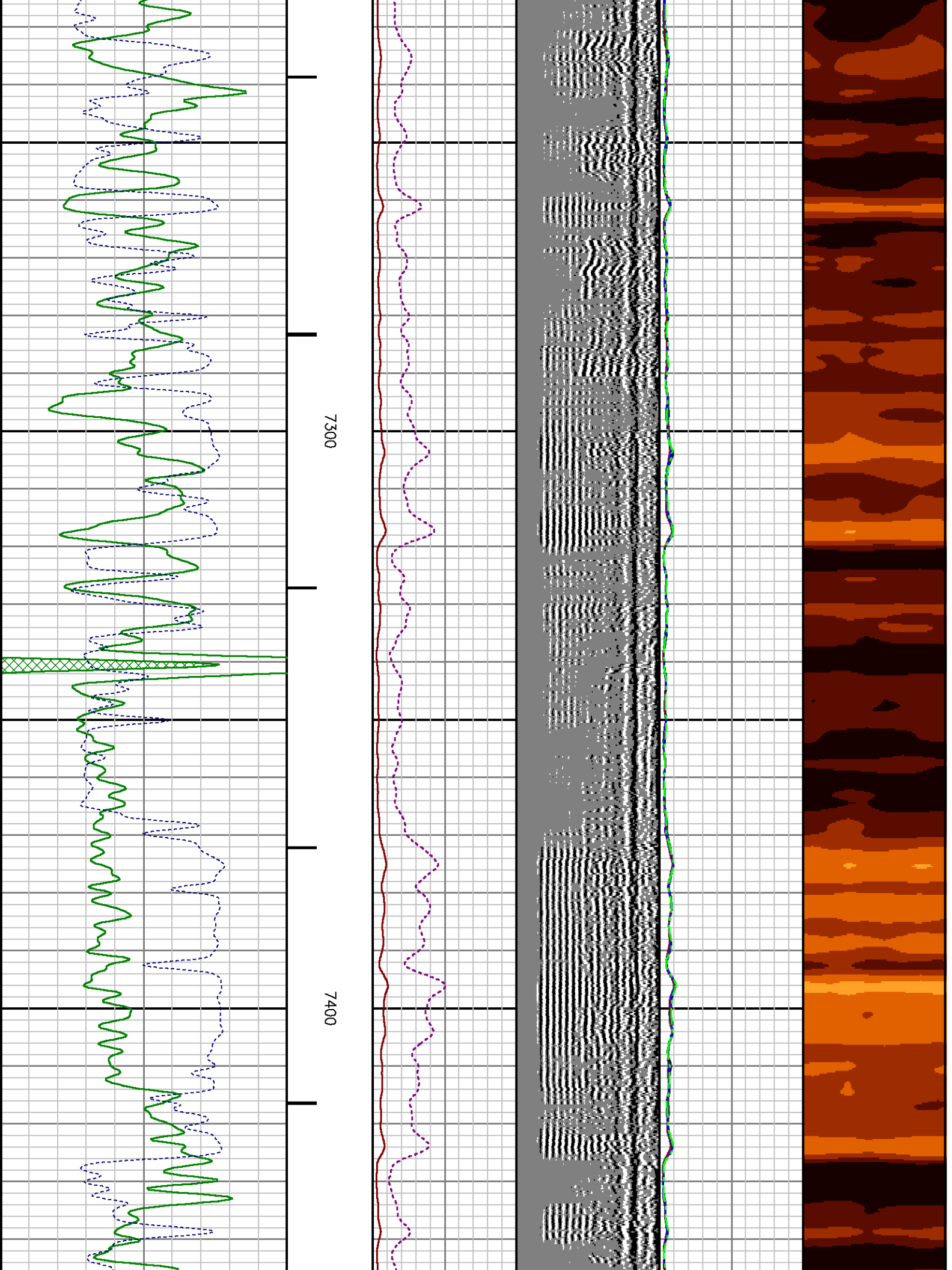


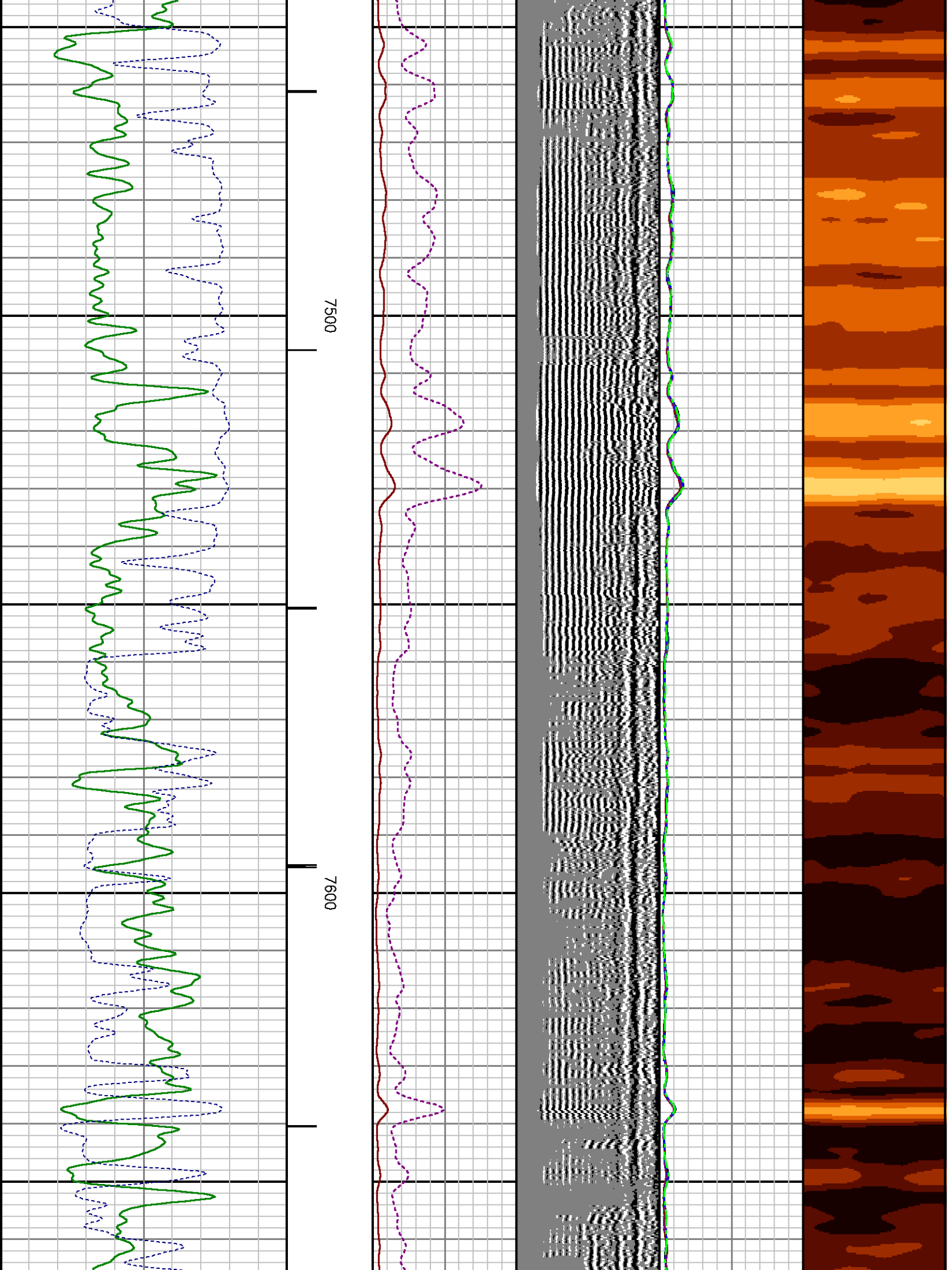


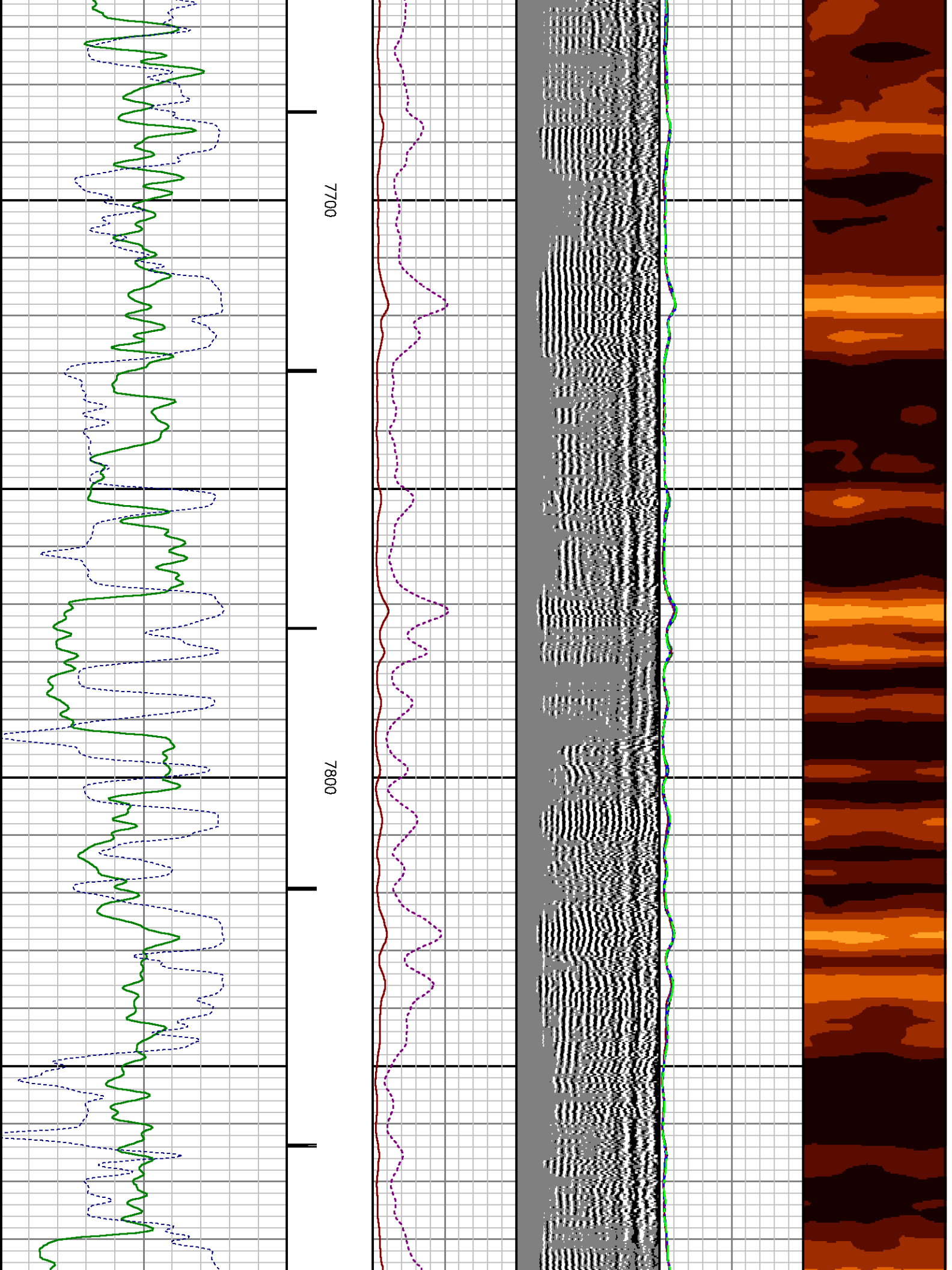


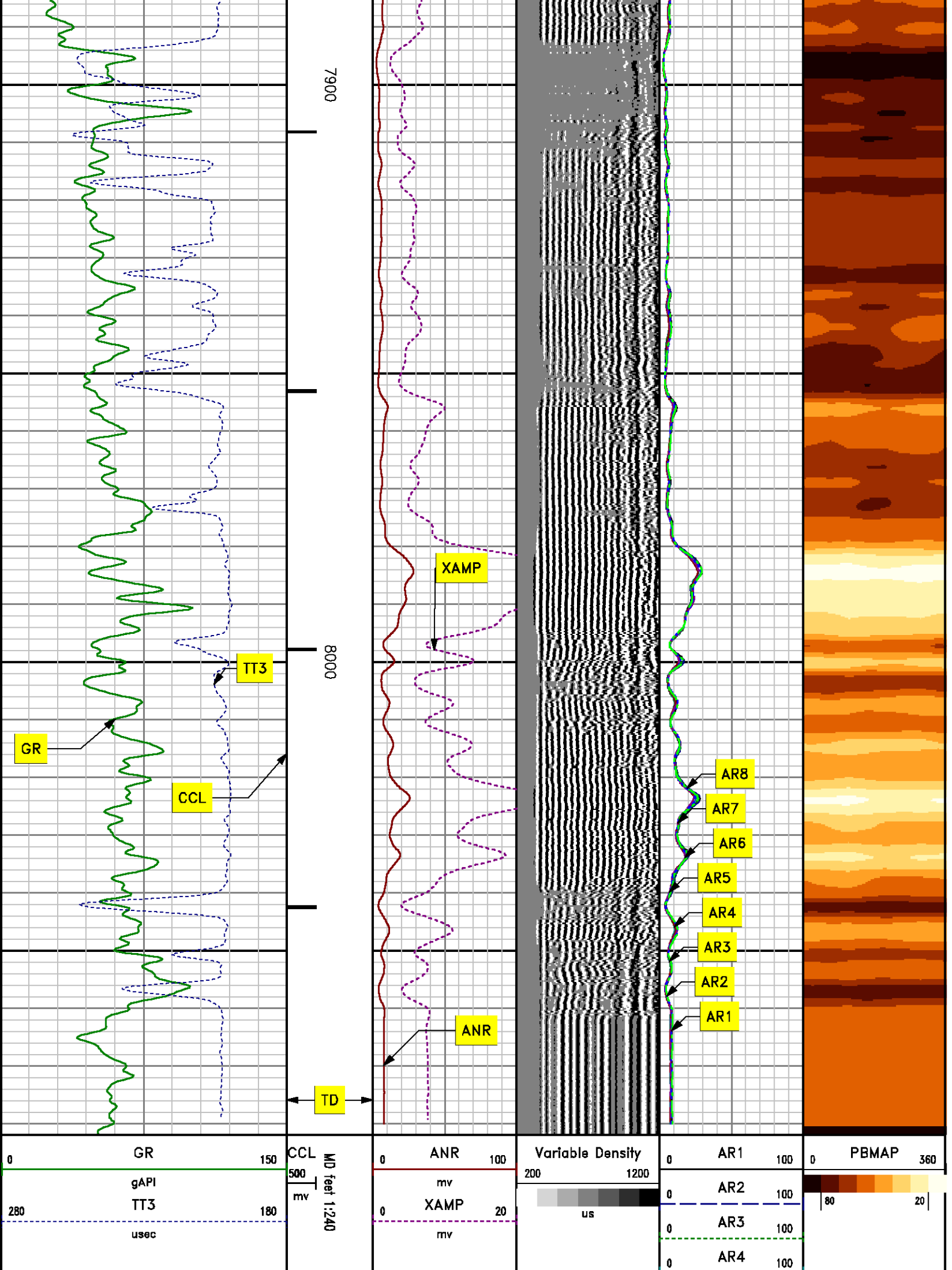












				0	AR5	100
				0	AR6	100
				0	AR7	100
				0	AR8	100

REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	308.607	usec	5863.166	6172.260
RAL	Amp Gate Start Near	200.000	usec	5863.166	6172.260
RAL	Amp Gate Start Radial	201.648	usec	5863.166	6172.260
RAL	Amp Gate Width Far	25.000	usec	5863.166	6172.260
RAL	Amp Gate Width Near	25.000	usec	5863.166	6172.260
RAL	Amp Gate Width Radial	25.000	usec	5863.166	6172.260
RAL	casing od	4.500	inches	5863.166	6172.260
RAL	casing wt	11.600	lbm/ft	5863.166	6172.260
RAL	FB Start Far	291.900	usec	5863.166	6172.260
RAL	FB Start Near	175.391	usec	5863.166	6172.260
RAL	FB Start Radial	175.391	usec	5863.166	6172.260
RAL	FB Thresh Far	10.000	mv	5863.166	6172.260
RAL	FB Thresh Near	4.000	mv	5863.166	6172.260
RAL	FB Thresh Radial	4.000	mv	5863.166	6172.260
RAL	Fluid Travel Time	200.000	usec/ft	5863.166	6171.978

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

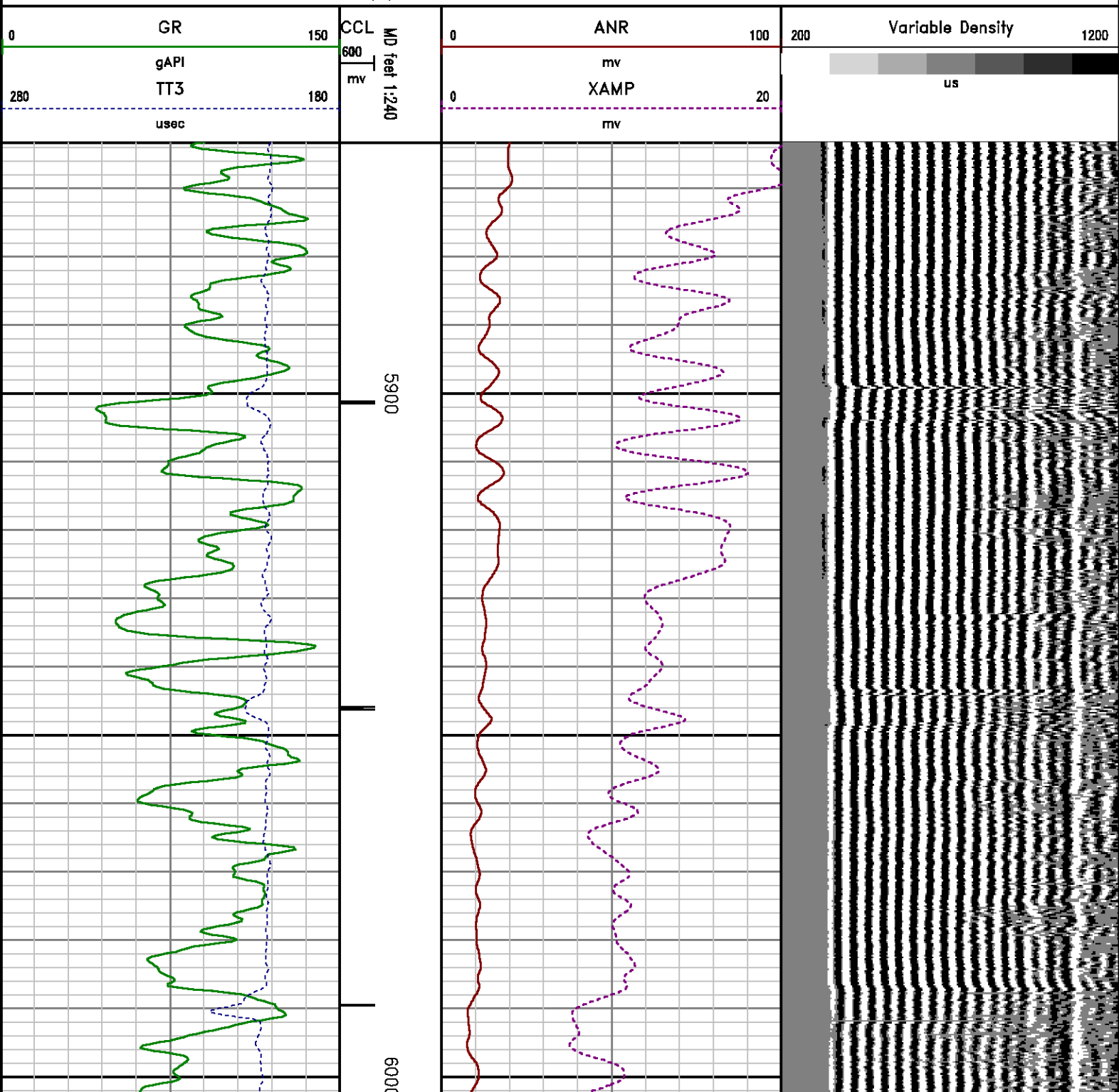
Well : FEDERAL KP 314-18

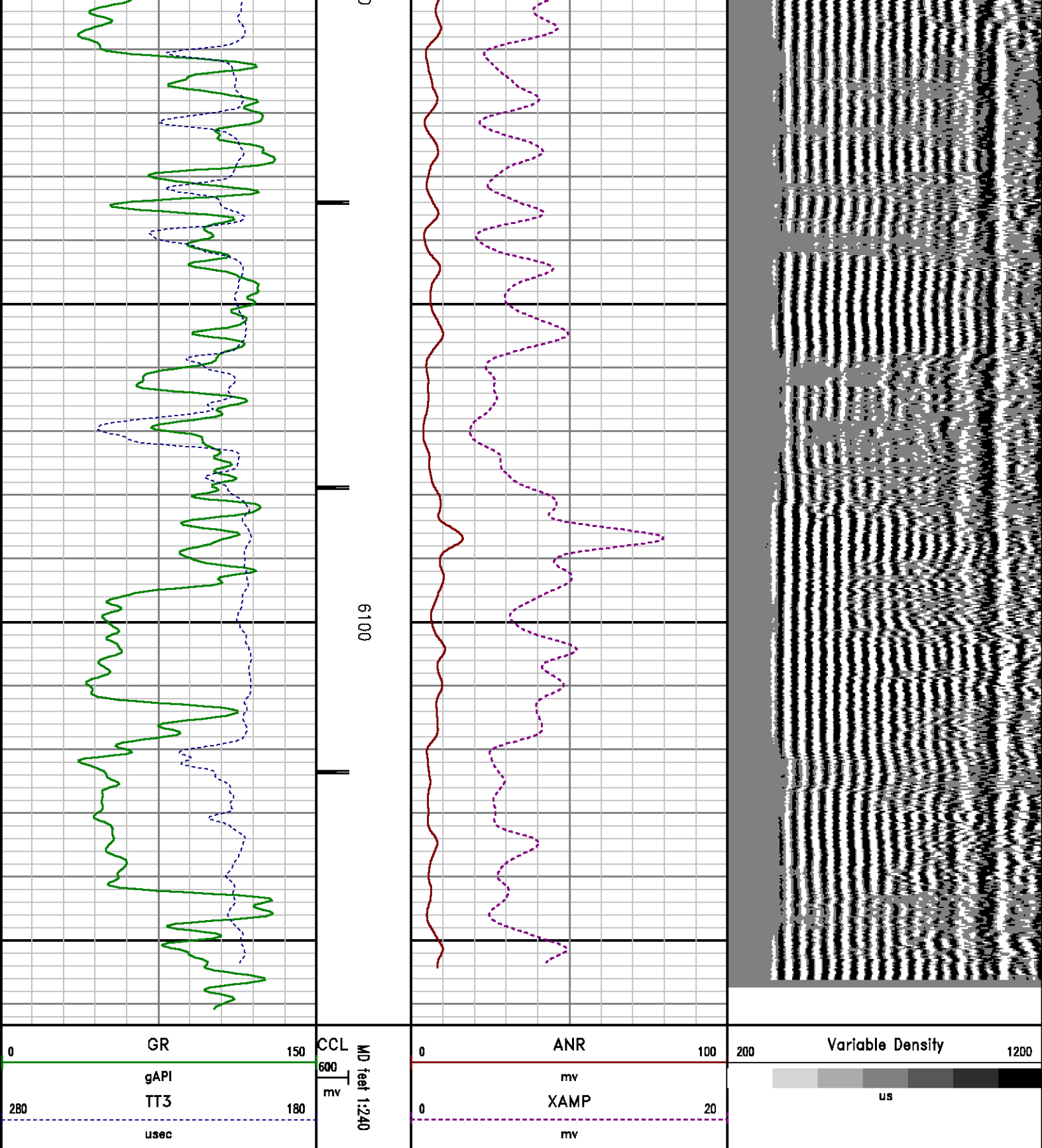
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Mode : PlotMgr 5.4.504

Interval : 5863.26 - 6163.26 feet UP

Created : 7/9/2012 9:59:14 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\028JS_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 08 09:37:11 2012 TOOL SERIES: 1426XA ASSET: 028 SEQ: JS

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	219	216	30	166	25	0.521	100.00	0.13
3 Ft. Receiver	219	216	30	152	25	-0.079	100.00	0.13
5 Ft. Receiver	329	328	30	236	25	-0.267	150.00	0.14
Radial #1	219	216	30	145	25	-1.281	100.00	0.13
Radial #2	218	216	30	145	25	-0.089	100.00	0.13
Radial #3	219	216	30	145	25	0.046	100.00	0.13
Radial #4	219	216	30	145	25	-0.261	100.00	0.13
Radial #5	220	216	30	145	25	-0.103	100.00	0.13
Radial #6	219	216	30	145	25	-0.146	100.00	0.13
Radial #7	218	216	30	145	25	-0.067	100.00	0.13
Radial #8	219	216	30	145	25	-0.339	100.00	0.13

GAMMA RAY

Calibration File: C:\case\calver\GR\503J5.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jul 05 08:38:40 2012 TOOL SERIES: 2459XA ASSET: 503 SEQ: J5

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SHOP JIG	57.87	274.71	0.853	49.37	234.37	185.00

Verification File: C:\case\calver\GR\503J5.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Jul 05 08:39:55 2012 TOOL SERIES: 2459XA ASSET: 503 SEQ: J5

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SHOP JIG	59.29	275.60	0.853	50.58	235.13	184.54

RALFLD

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Jul 08 09:38:10 2012

TOOL SERIES: 1426XA

ASSET:

028

SEQ: JS

Tool Delay
[usec]

-52.00

Casing OD
In

4.50

Casing Wt
lbm/ft

11.60

Casing ID
In

4.00

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	0.041	0.000	1.00	100.000
3 Ft. Receiver	200	30	0.302			
5 Ft. Receiver	317	30	-0.363			
Radial #1	200	30	-0.254			
Radial #2	200	30	-0.253			
Radial #3	200	30	-0.302			
Radial #4	200	30	-0.354			
Radial #5	200	30	-0.425			
Radial #6	200	30	-0.279			
Radial #7	200	30	-0.449			
Radial #8	200	30	-0.314			

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



24.23'

XMIT—18.05'

NEAR RCVR—14.97'

FAR RCVR—13.05'

CCL—11.34'

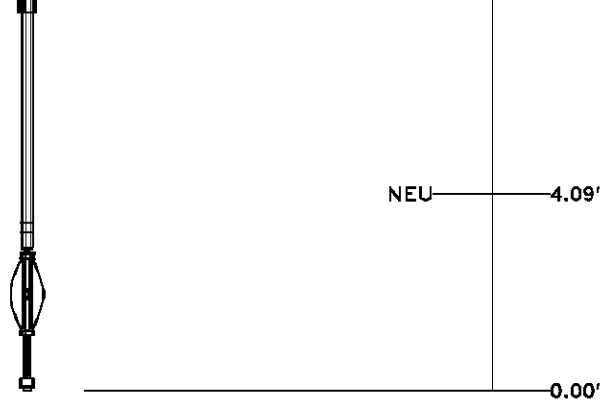
GR—9.49'

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

CENTRALIZER	
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 	Company WPX ENERGY	File No: CH057340
	Well FEDERAL KP 314-18	API No: 05045206350000
	Field KOKOPELLI	
	County GARFIELD State COLORADO	
	Location SHL: 726' FSL x 1960' FEL BHL: 858' FSL x 614' FWL SEC 18 TWP 6S RGE 91W	Elevations KB 5944 ft DF NA GL 5918 ft 18-T6S-R91W KP 34-18 pad NABORS 574