



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	WPX ENERGY
CH060325	Well	JOLLEY KP 14-9
API No:	Field	KOKOPPELLI
05045180690000	County	GARFIELD
	State	COLORADO

9 6S 91W KP 11-16 pad NABORS 574	Location	SHL: 590' FNL 695' FEL SECTION 16 BHL: 1176' FSL 667' FNL SECTION 9	Other Services	RPM
	SEC 9	TWP 6S	RGE 91W	

Permanent Datum	G.L.	Elevation	6632 ft
Log Measured From	K.B.	26 ft	Above P. D.
Drill Measured From	KELLY BUSHING		
		Elevations	KB 6658 ft DF NA GL 6632 ft

Date	01 SEP 2012
Run	ONE
Service Order	575185
Depth Driller	7596 ft
Depth Logger	7596 ft
Bottom Logged Interval	7596 ft
Top Logged Interval	0 ft
Time Started	930
Time Finished	1330
Operator Rig Time	4 HOURS
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	185 degF
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JUNCTION
Recorded By	JACOB STALEY
Witnessed By	MR. JEFF BRADY

- FOLD HERE

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

Borehole Record		
Bit Size	From	To
13.5 In	0 ft	1422 ft
7.875 In	0 ft	7596 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	NA	NA	0 ft	1422 ft
4.5 In	NA	NA	0 ft	7596 ft

Remarks
ALL DATA WAS DEPTH SHIFTED TO PUT THE TOP CCL MARK ON DEPTH WITH GROUND LEVEL WITH A SHIFT OF +3 FT
LOGGED WITH 0 PSI AT WELLHEAD
BHT = 185 DEG F
SJ = 4224'-4245'

SPLICED LOG AT 3818' DUE TO TOOL FAILURES

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10417452	CENT
1	1	GR/CCL	2459XA	10417456	CENT
1	2	VDL	1426XA	10417452	CENT
1	2	GR/CCL	2459XA	10404544	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	36.406	3821.000
RAL	Amp Gate Start Near	195.000	usec	36.406	3821.000
RAL	Amp Gate Start Radial	195.000	usec	36.406	3821.000
RAL	Amp Gate Width Far	25.000	usec	36.406	3821.000
RAL	Amp Gate Width Near	25.000	usec	36.406	3821.000
RAL	Amp Gate Width Radial	25.000	usec	36.406	3821.000
RAL	casing od	4.500	inches	36.406	3821.000
RAL	casing wt	11.600	lbm/ft	36.406	3821.000
RAL	FB Start Far	291.900	usec	36.406	3821.000
RAL	FB Start Near	175.391	usec	36.406	3821.000
RAL	FB Start Radial	175.391	usec	36.406	3821.000
RAL	FB Thresh Far	10.000	mv	36.406	3821.000
RAL	FB Thresh Near	4.000	mv	36.406	3821.000
RAL	FB Thresh Radial	4.000	mv	36.406	3821.000
RAL	Fluid Travel Time	200.000	usec/ft	36.406	3821.000
RAL	Amp Gate Start Far	300.000	usec	3821.000	7582.000
RAL	Amp Gate Start Near	195.000	usec	3821.000	7582.000
RAL	Amp Gate Start Radial	195.000	usec	3821.000	7582.000
RAL	Amp Gate Width Far	25.000	usec	3821.000	7582.000
RAL	Amp Gate Width Near	25.000	usec	3821.000	7582.000
RAL	Amp Gate Width Radial	25.000	usec	3821.000	7582.000
RAL	casing od	4.500	inches	3821.000	7582.000
RAL	casing wt	11.600	lbm/ft	3821.000	7582.000
RAL	FB Start Far	291.900	usec	3821.000	7582.000
RAL	FB Start Near	175.391	usec	3821.000	7582.000
RAL	FB Start Radial	175.391	usec	3821.000	7582.000
RAL	FB Thresh Far	10.000	mv	3821.000	7582.000
RAL	FB Thresh Near	4.000	mv	3821.000	7582.000
RAL	FB Thresh Radial	4.000	mv	3821.000	7582.000
RAL	Fluid Travel Time	200.000	usec/ft	3821.000	7582.000

RAL	casing wt	11.600	lbm/ft	3821.000	7582.000
RAL	FB Start Far	291.900	usec	3821.000	7582.000
RAL	FB Start Near	175.391	usec	3821.000	7582.000
RAL	FB Start Radial	175.391	usec	3821.000	7582.000
RAL	FB Thresh Far	10.000	mv	3821.000	7582.000
RAL	FB Thresh Near	4.000	mv	3821.000	7582.000
RAL	FB Thresh Radial	4.000	mv	3821.000	7582.000
RAL	Fluid Travel Time	200.000	usec/ft	3821.000	7582.000

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

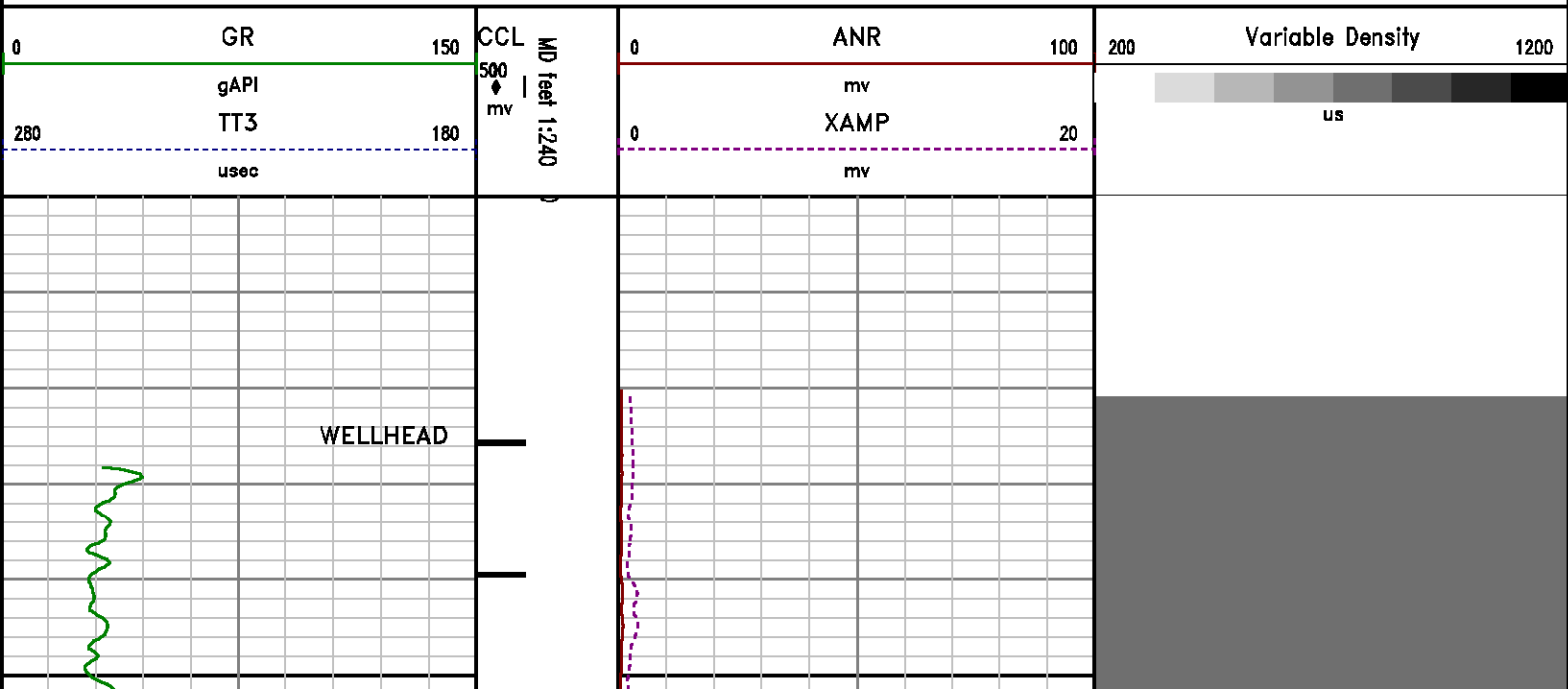
Well : JOLLEY KP 14-9

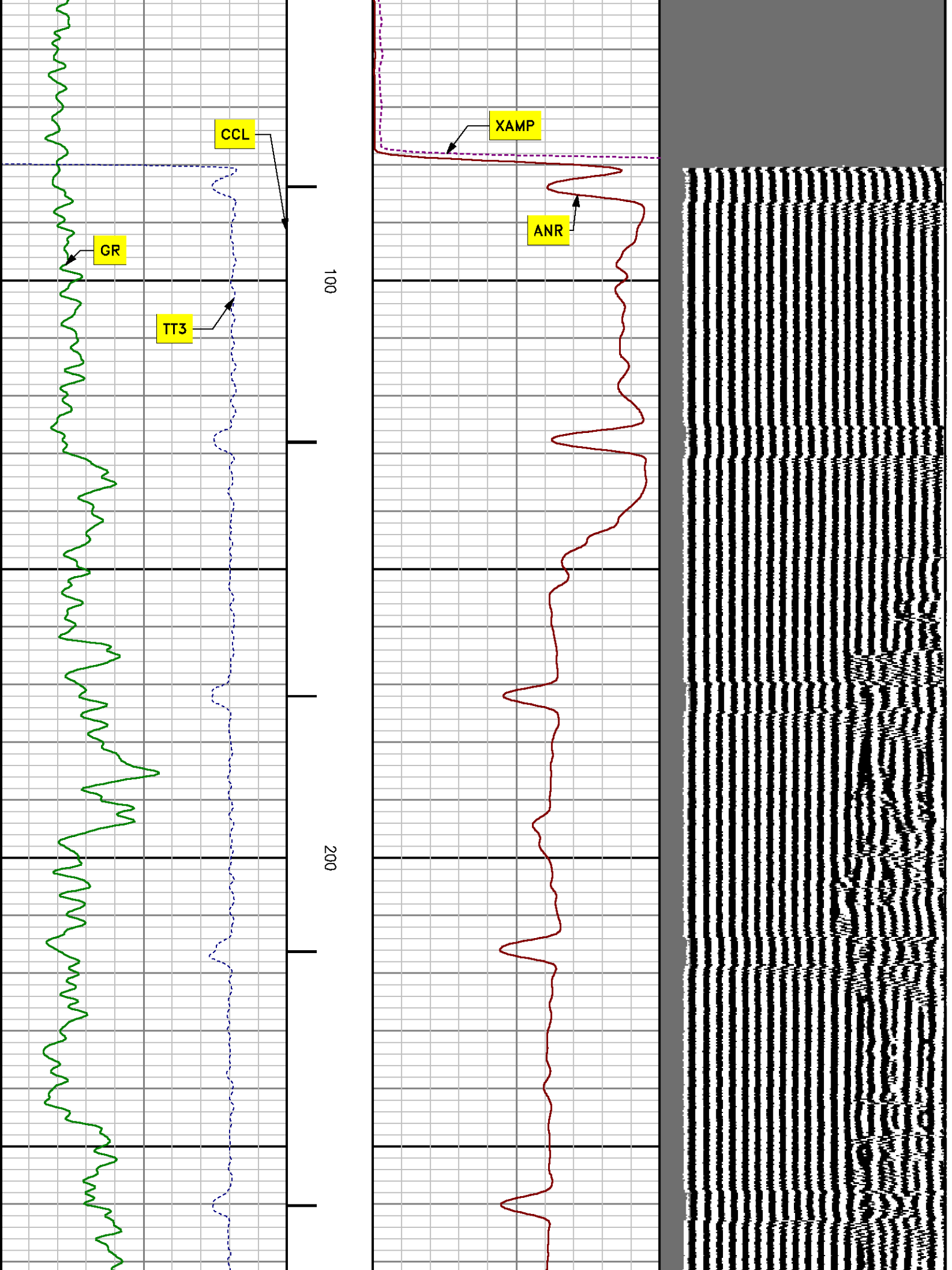
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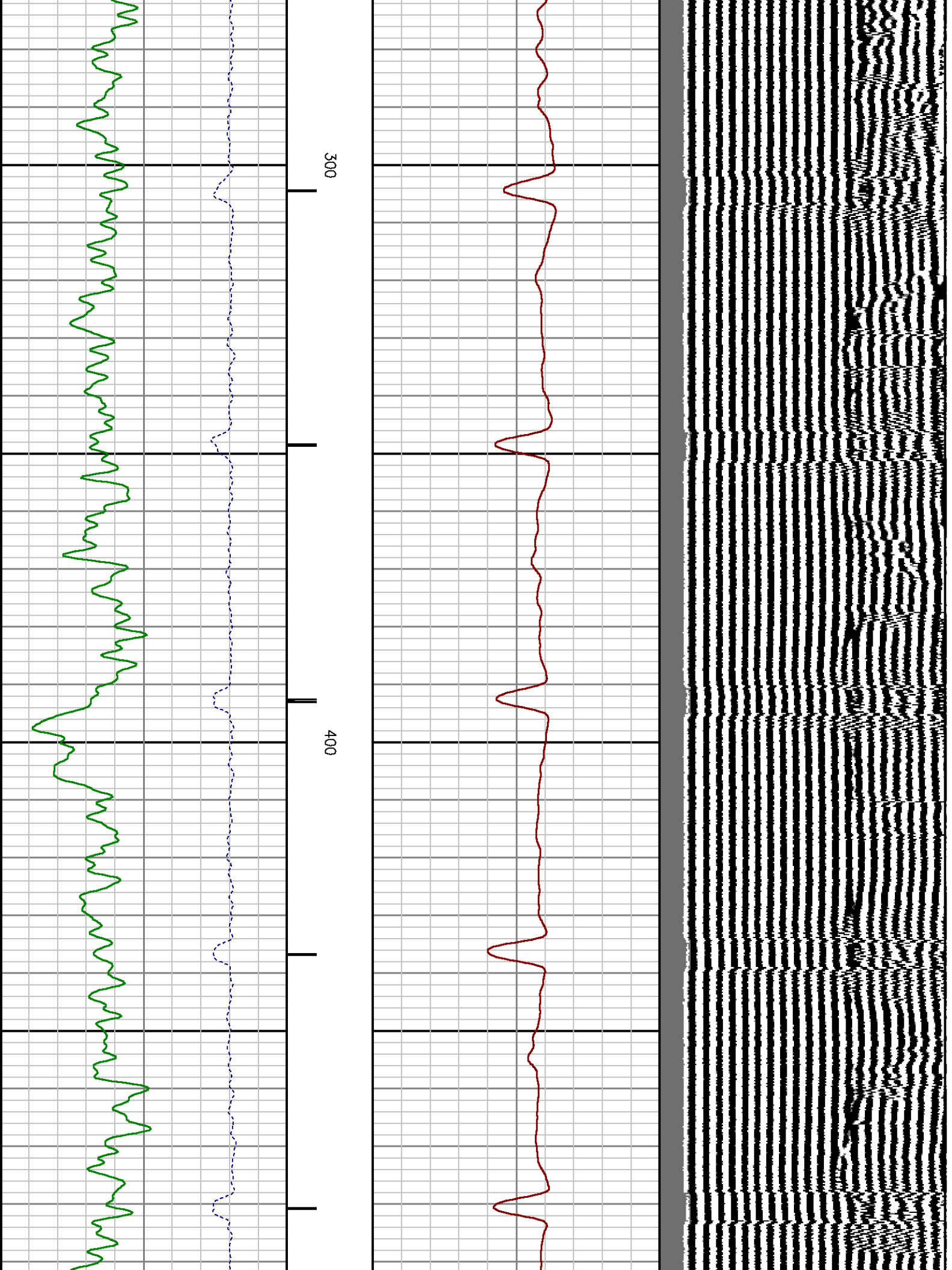
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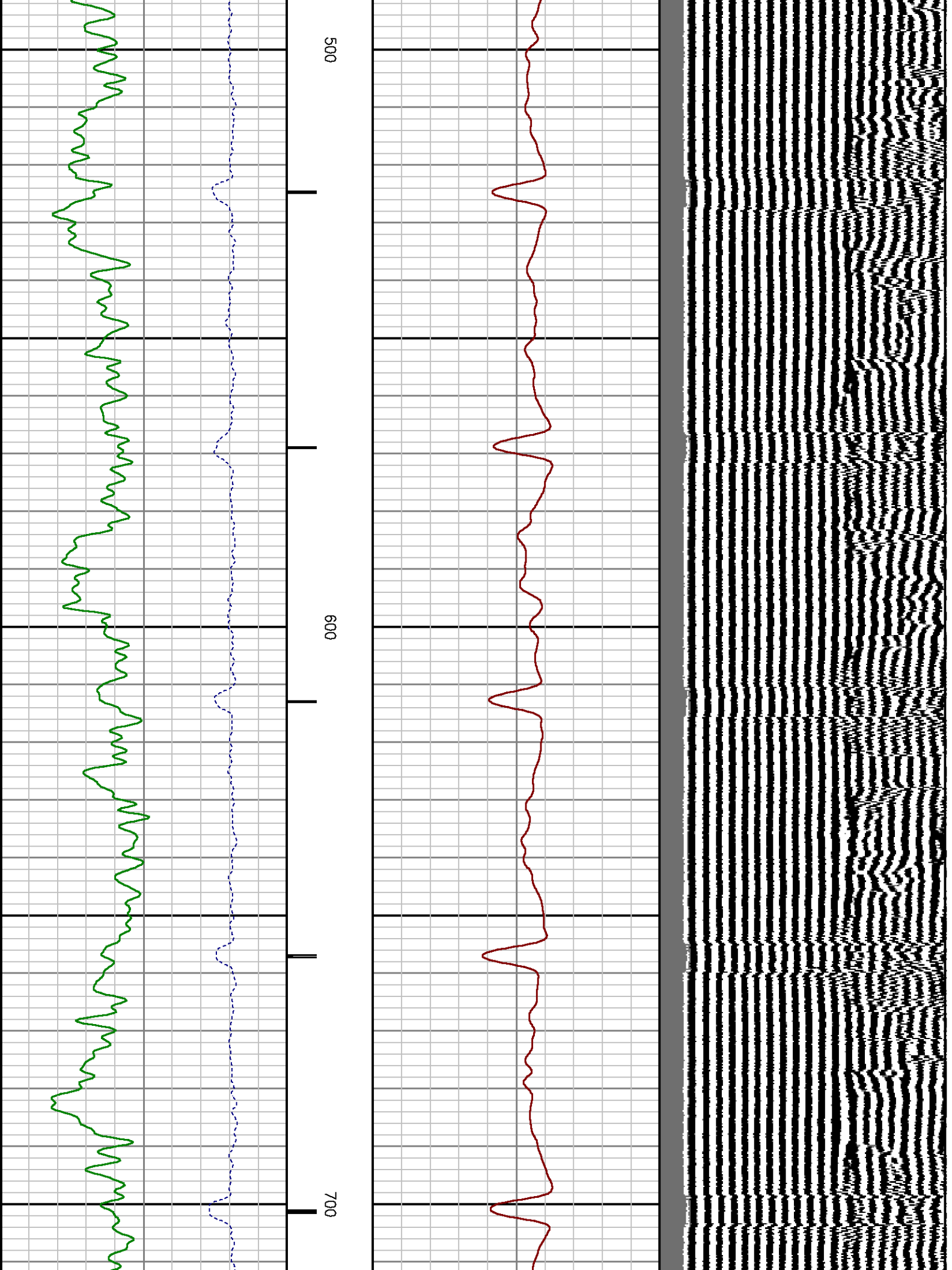
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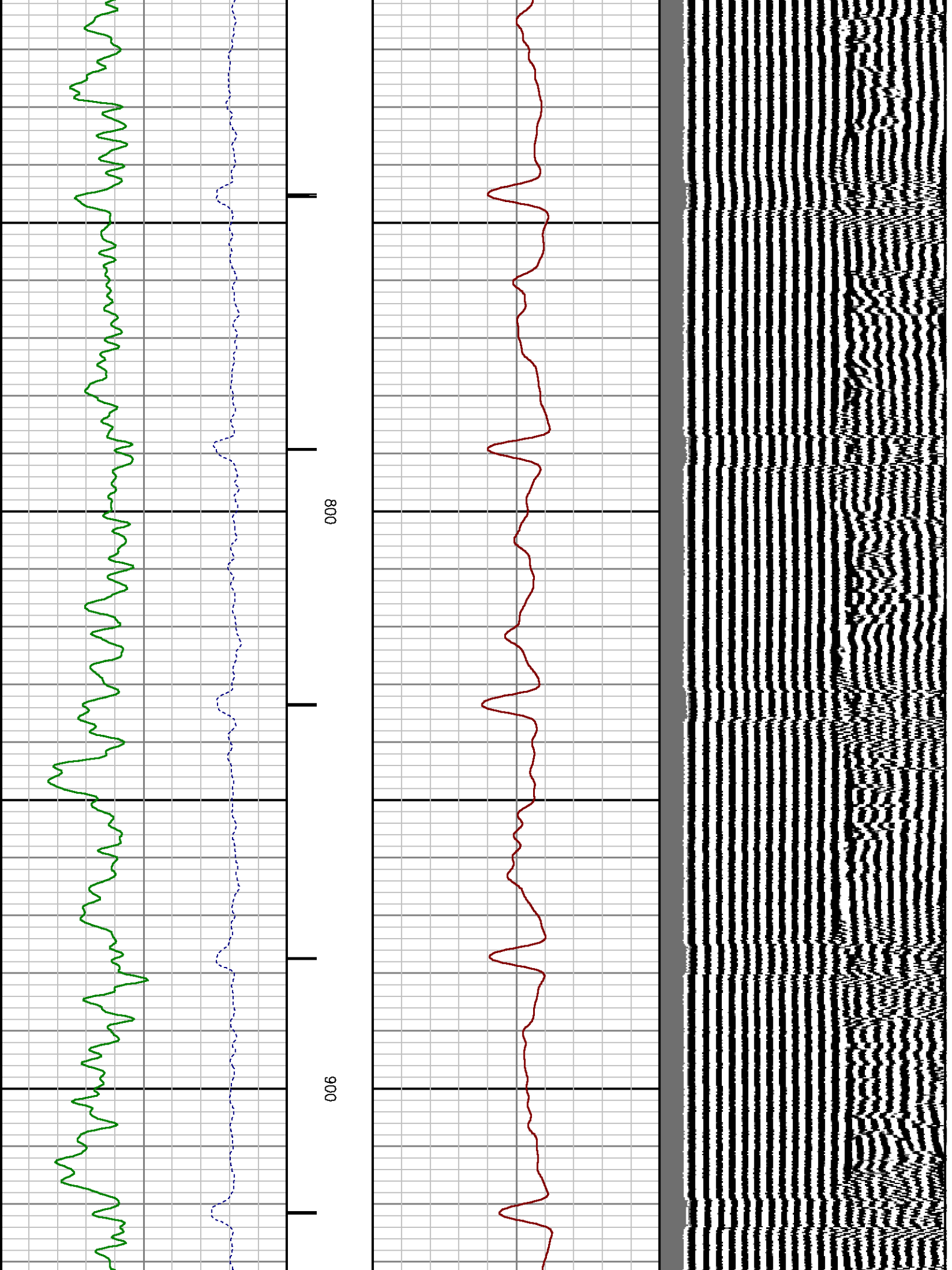
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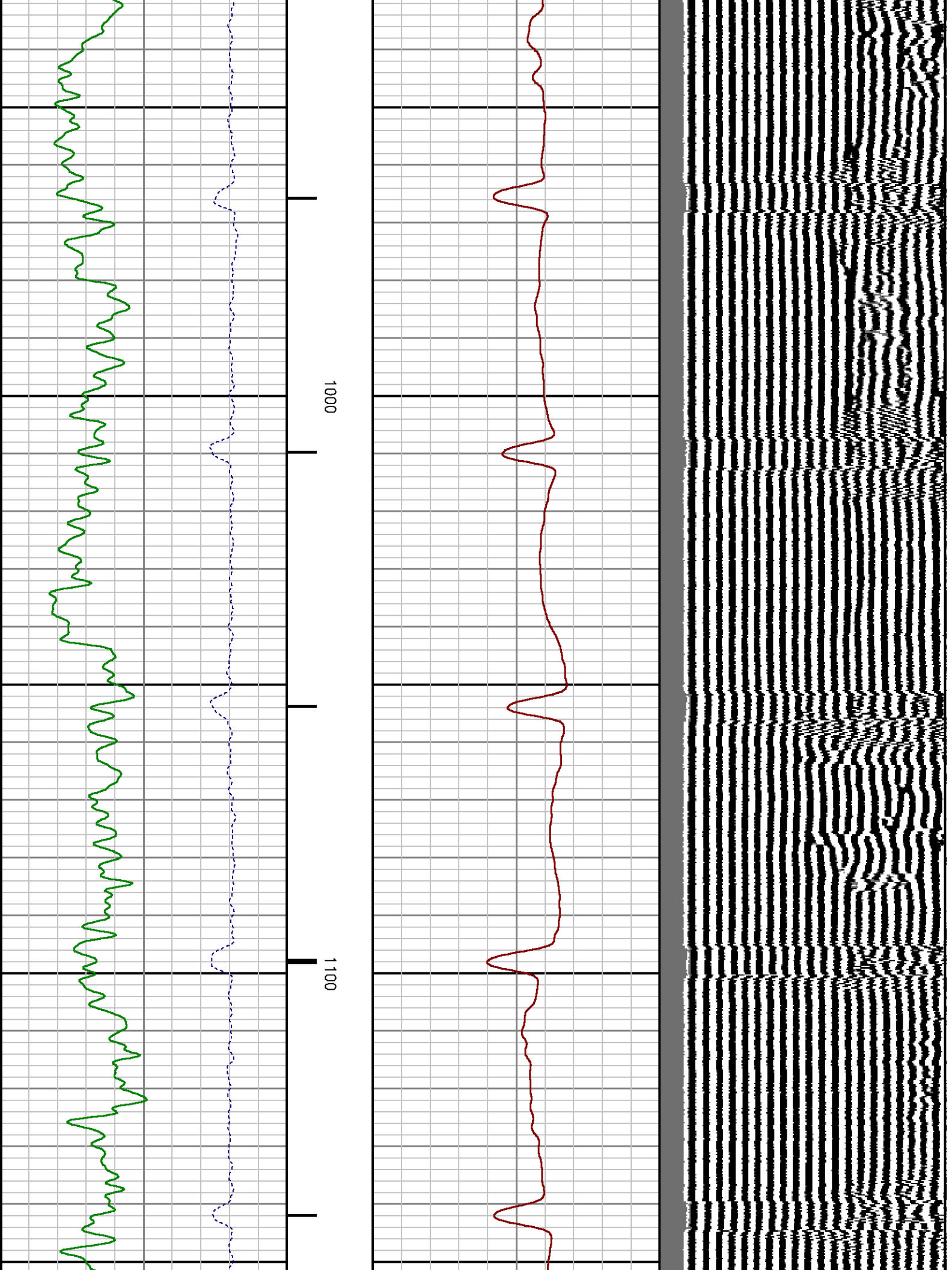


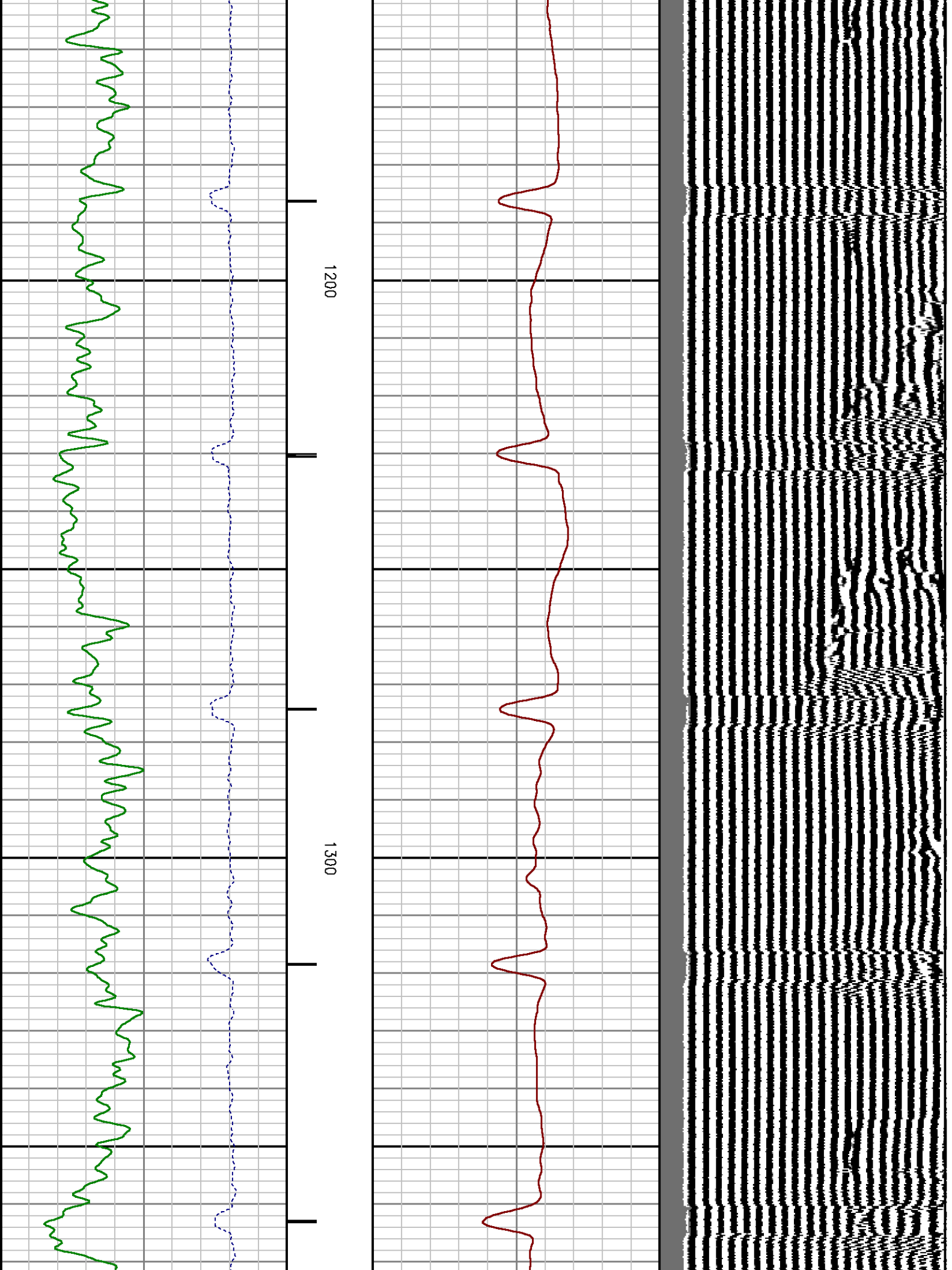


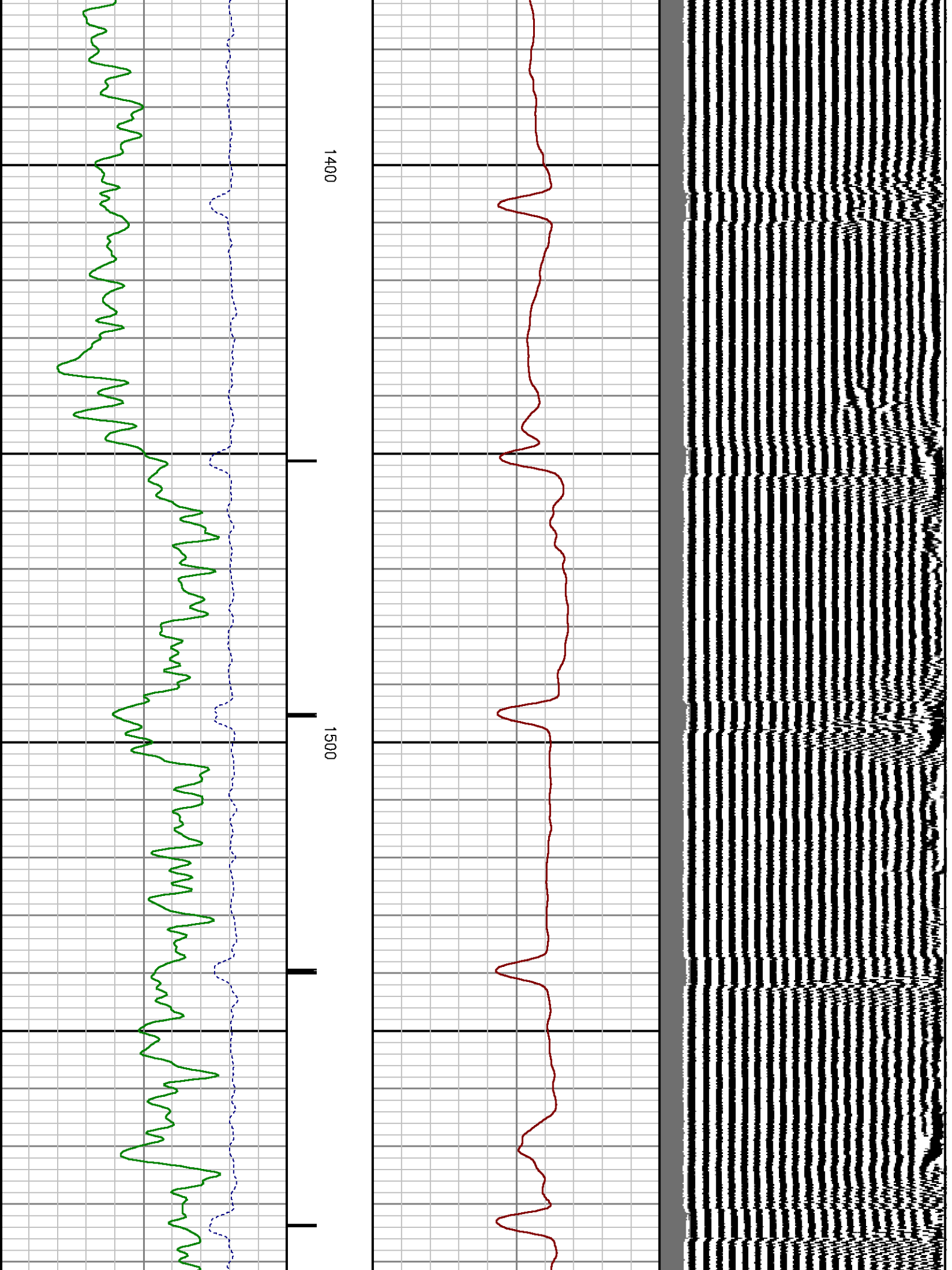


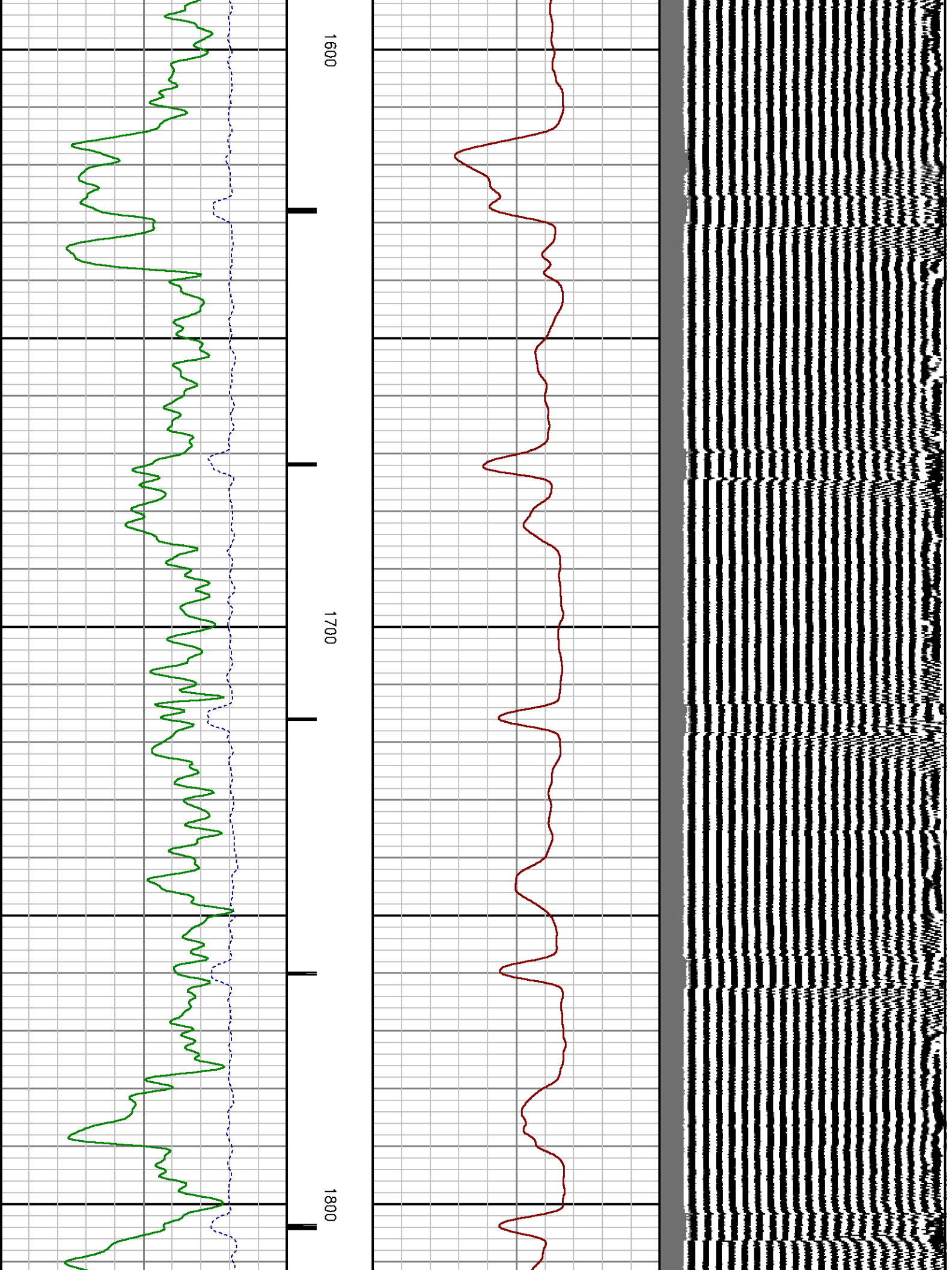


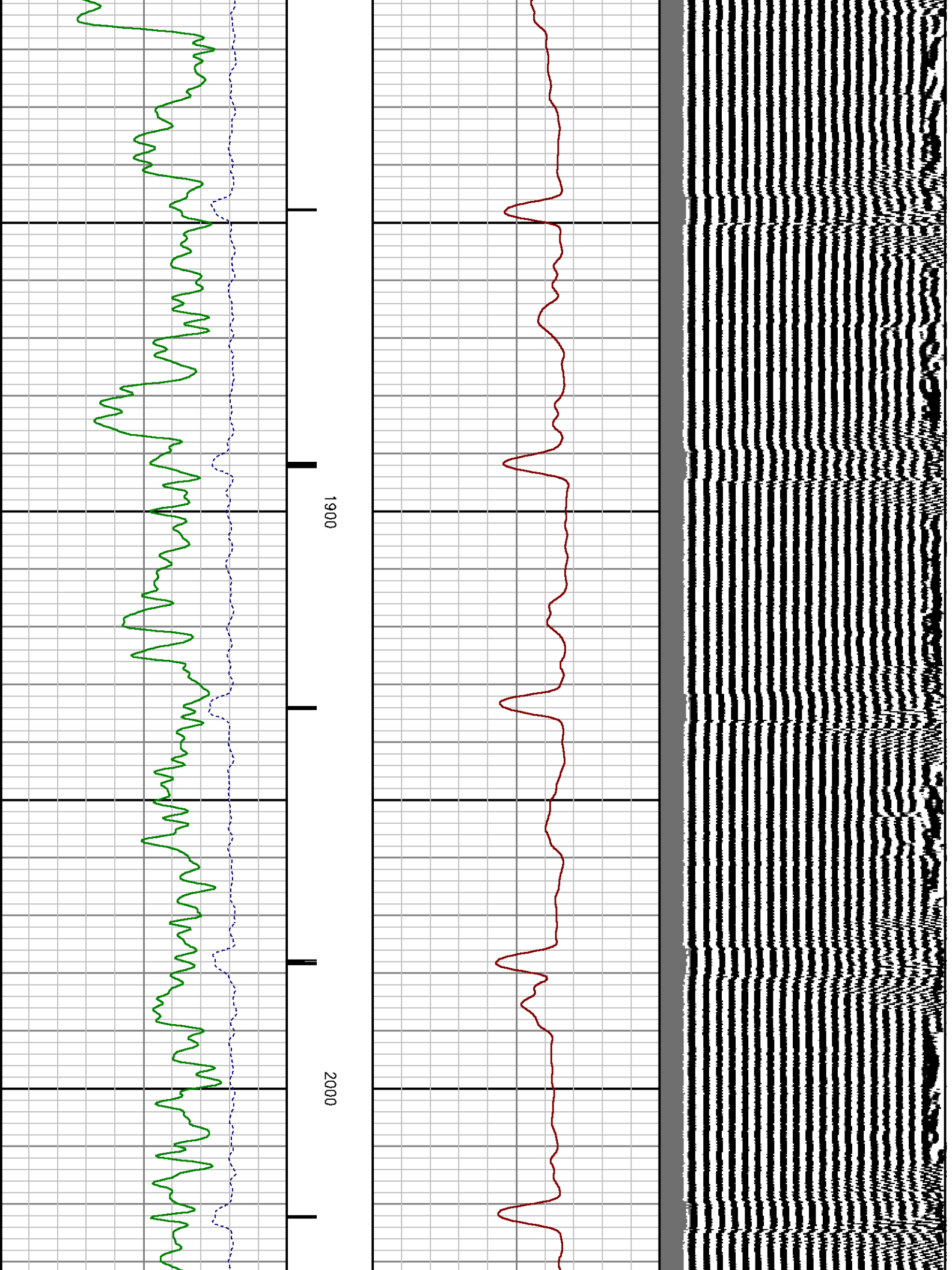


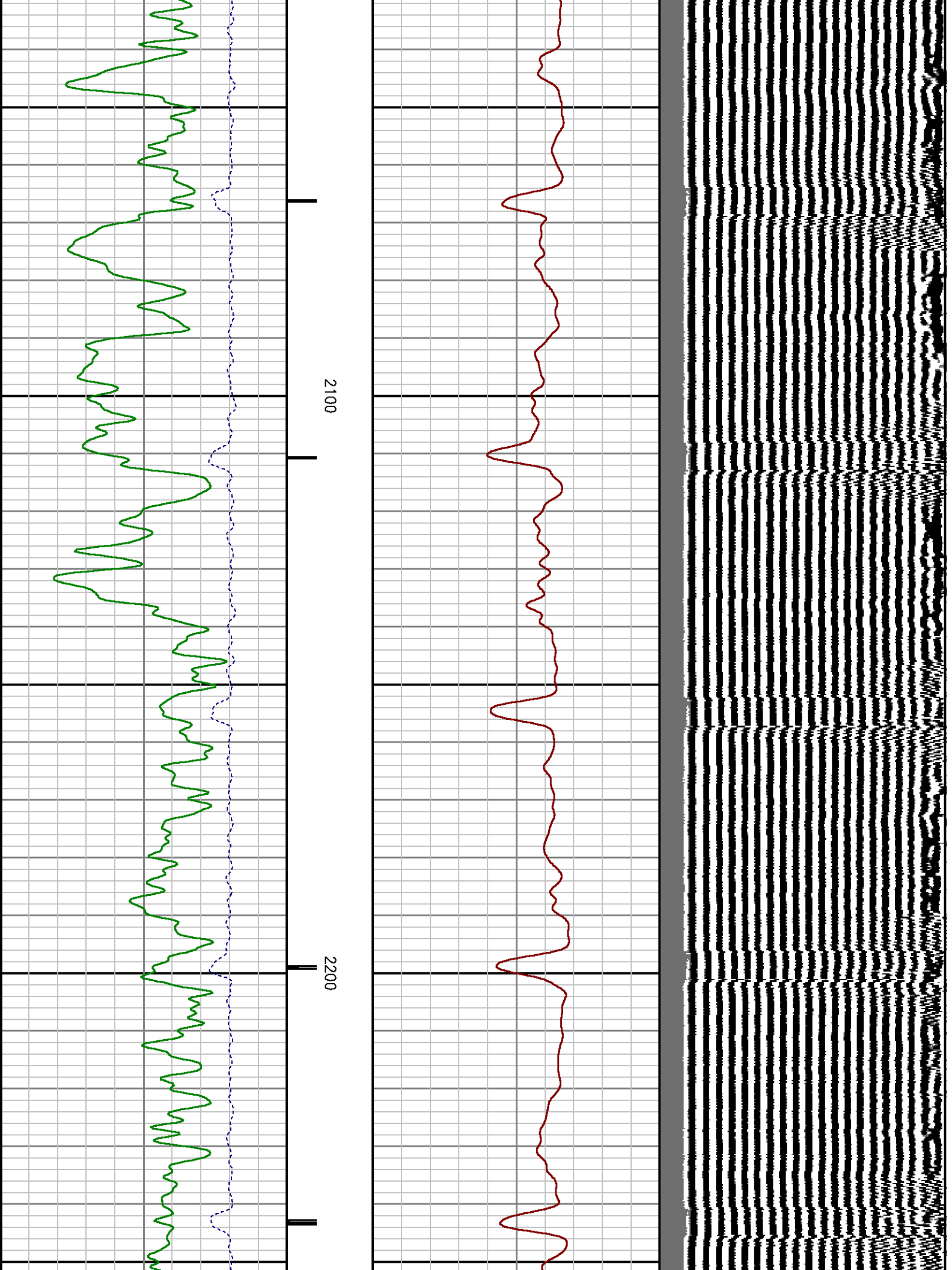


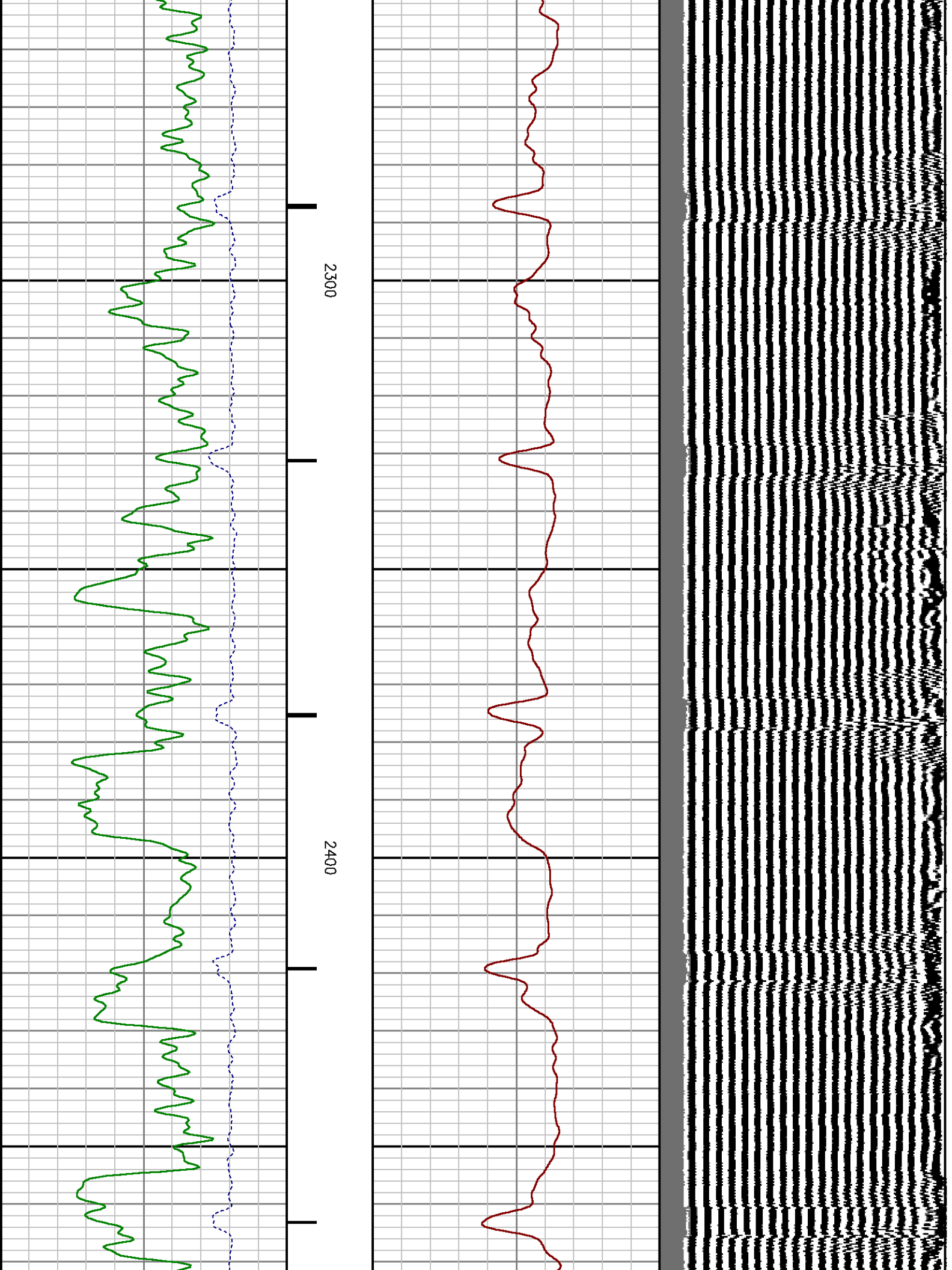


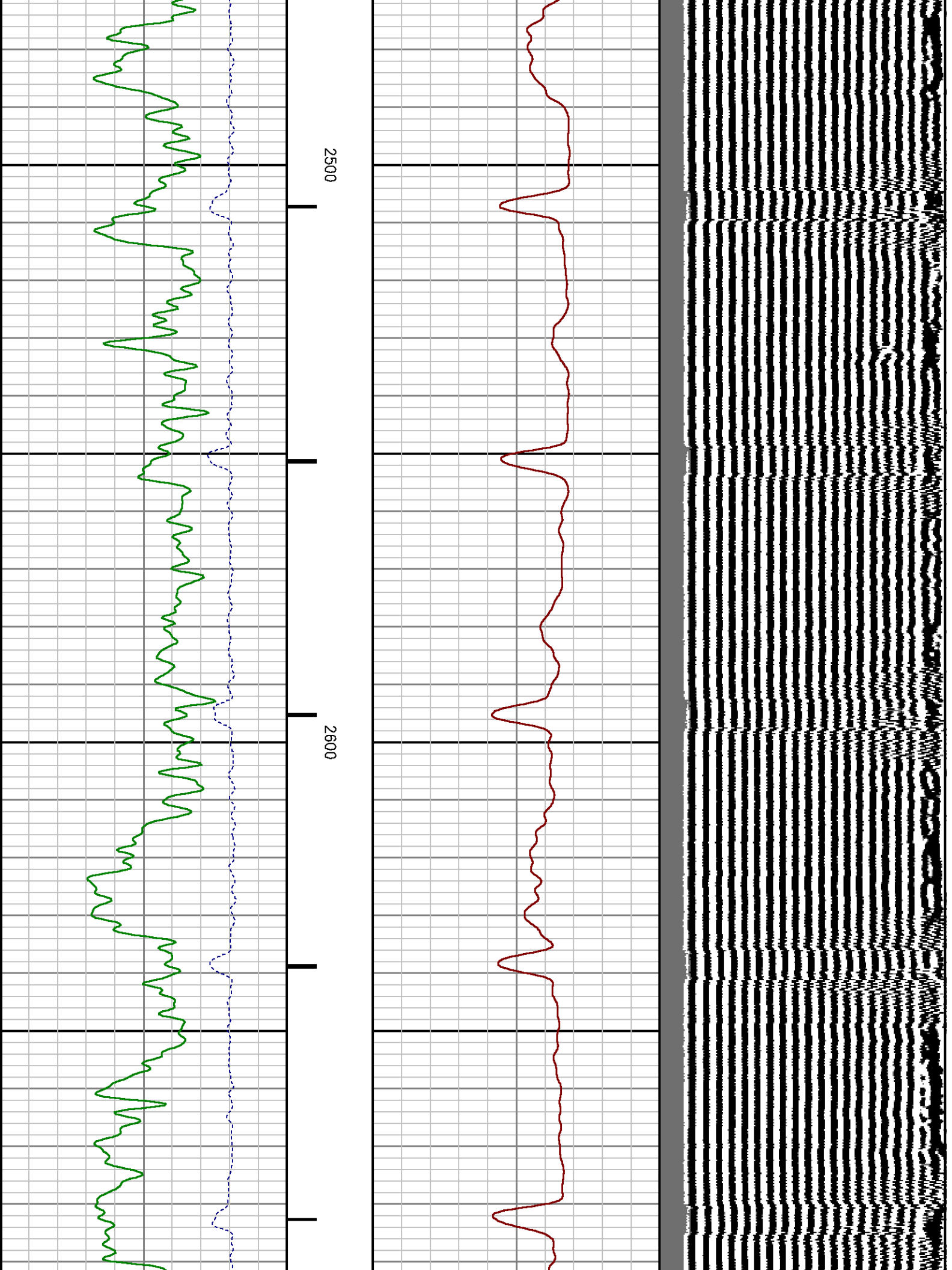


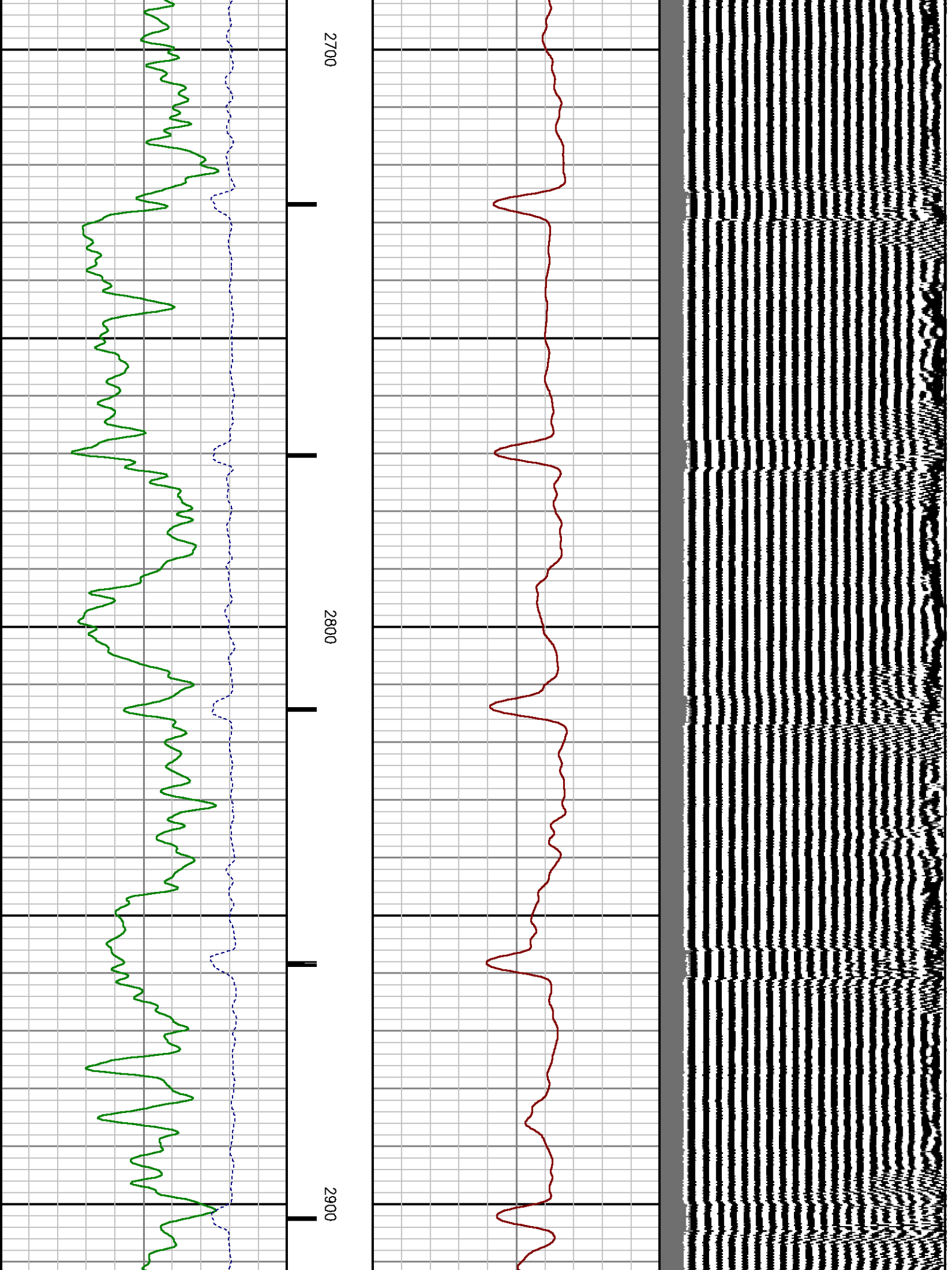


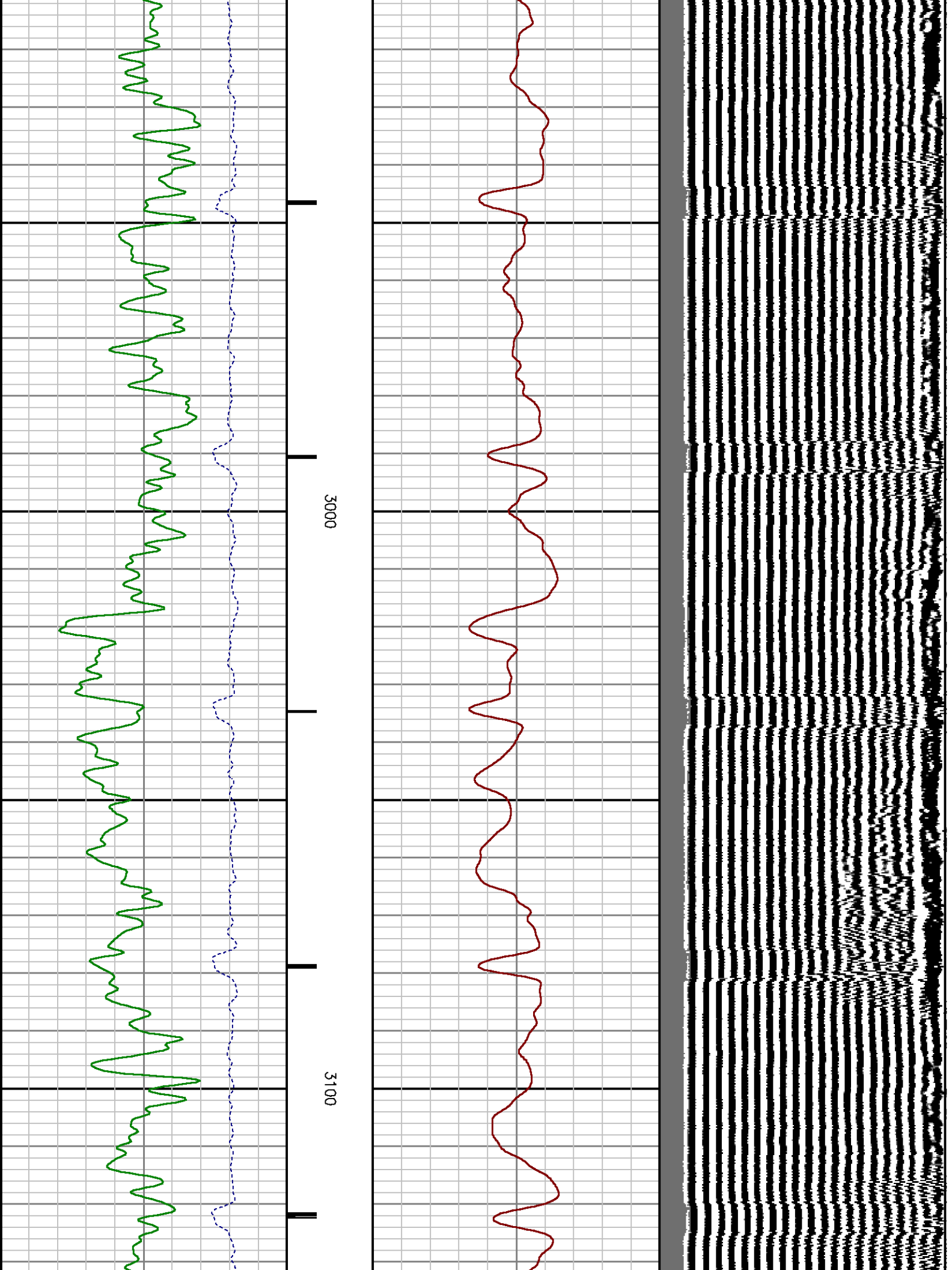


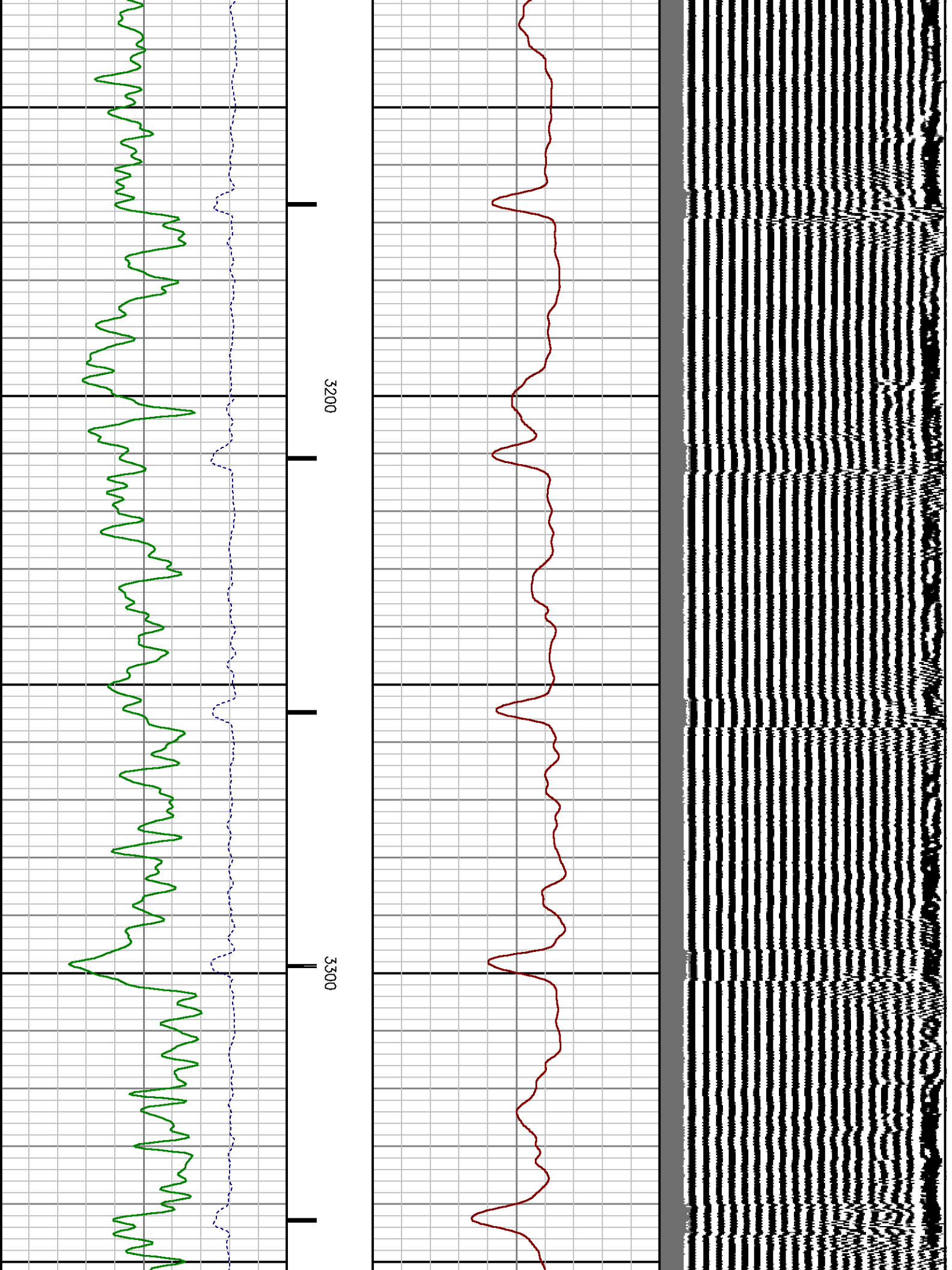


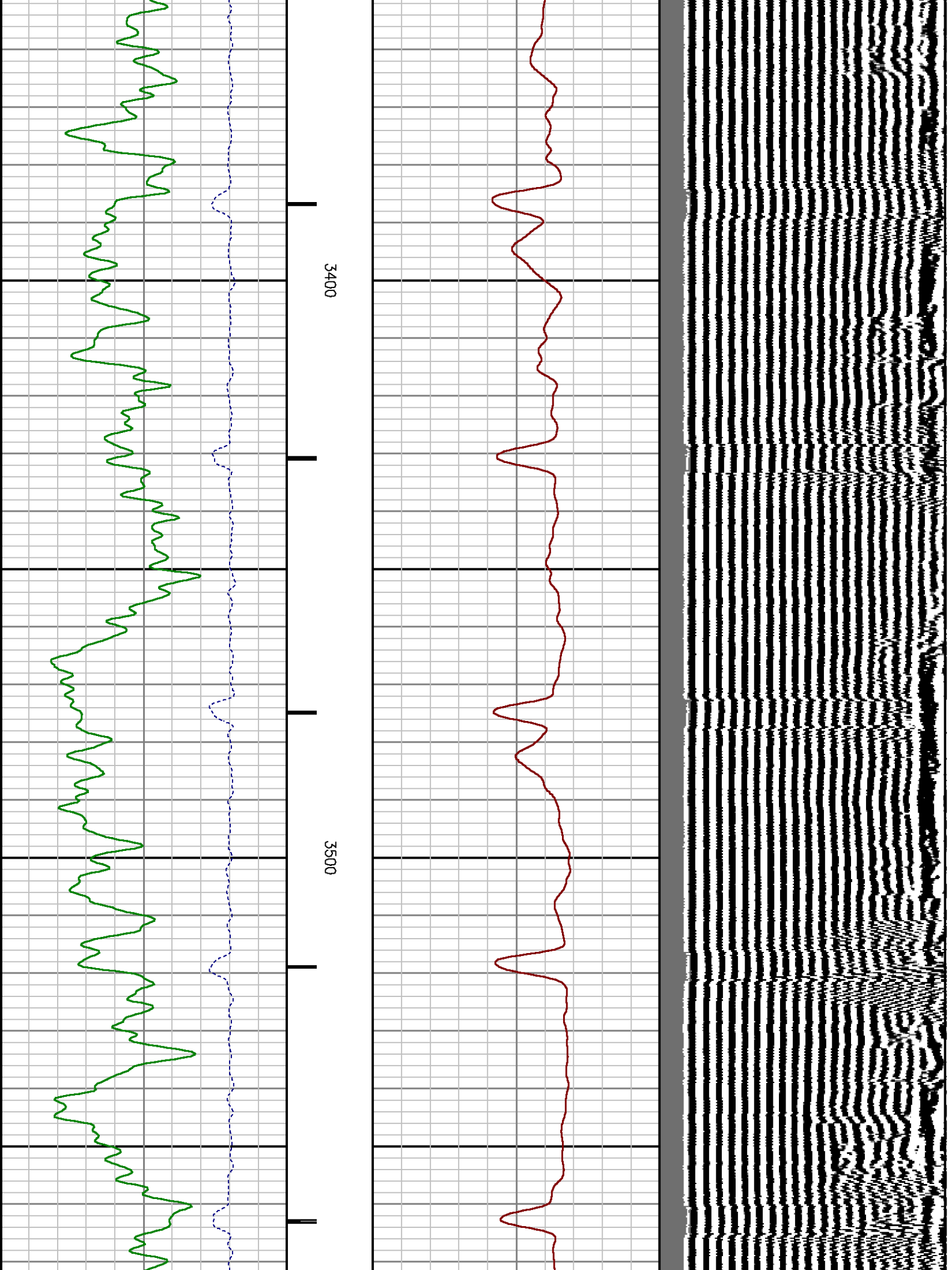


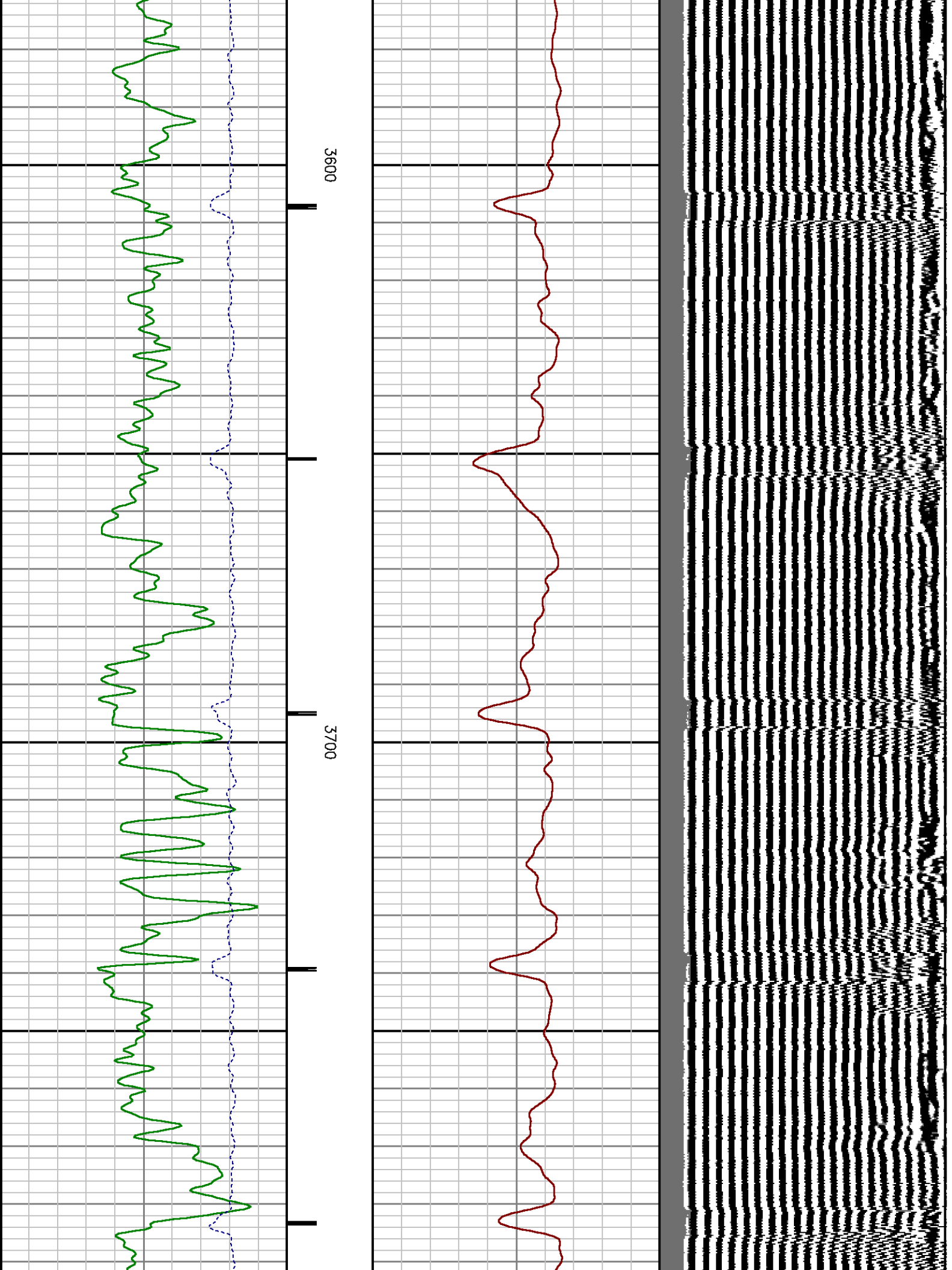


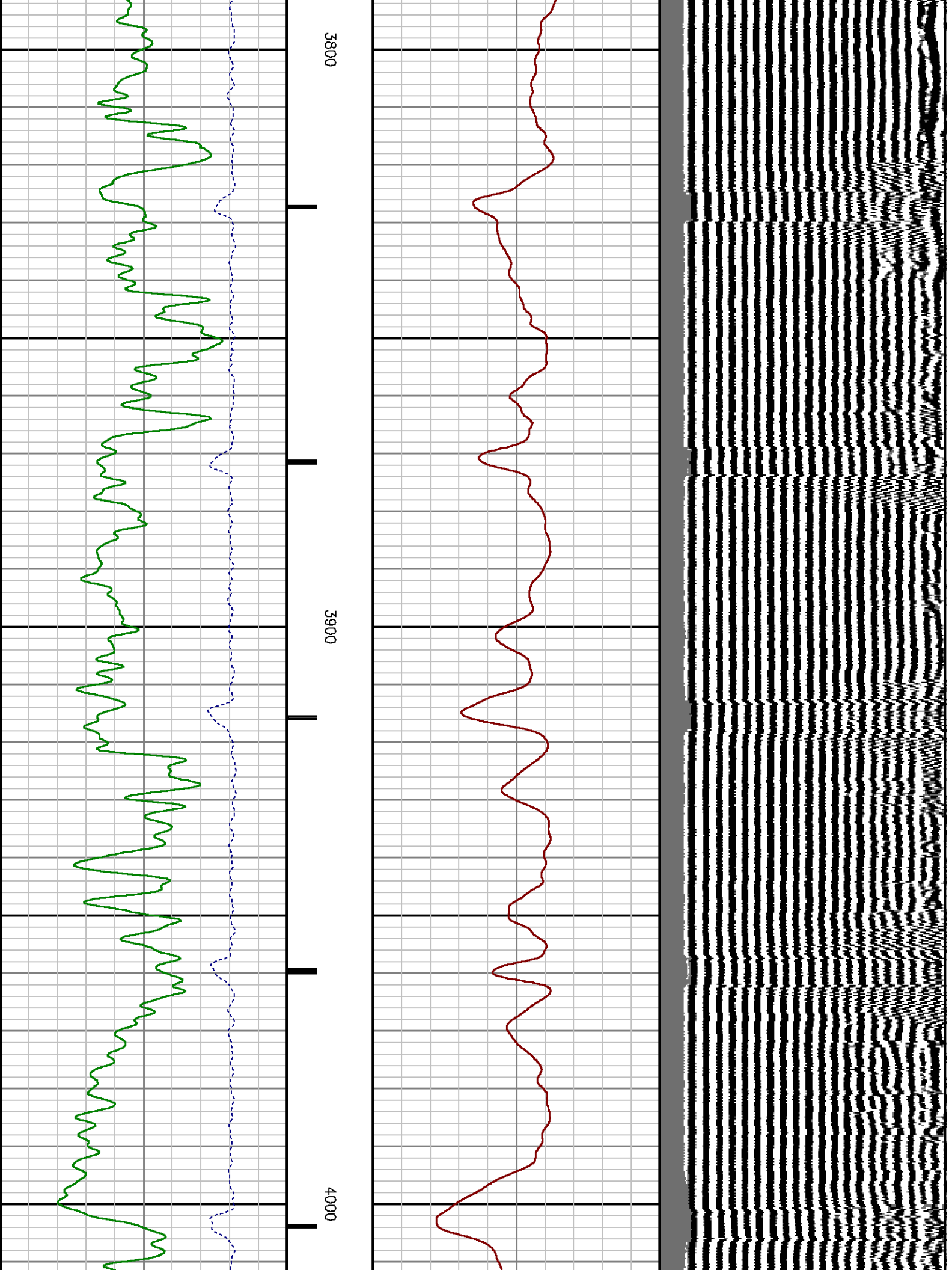


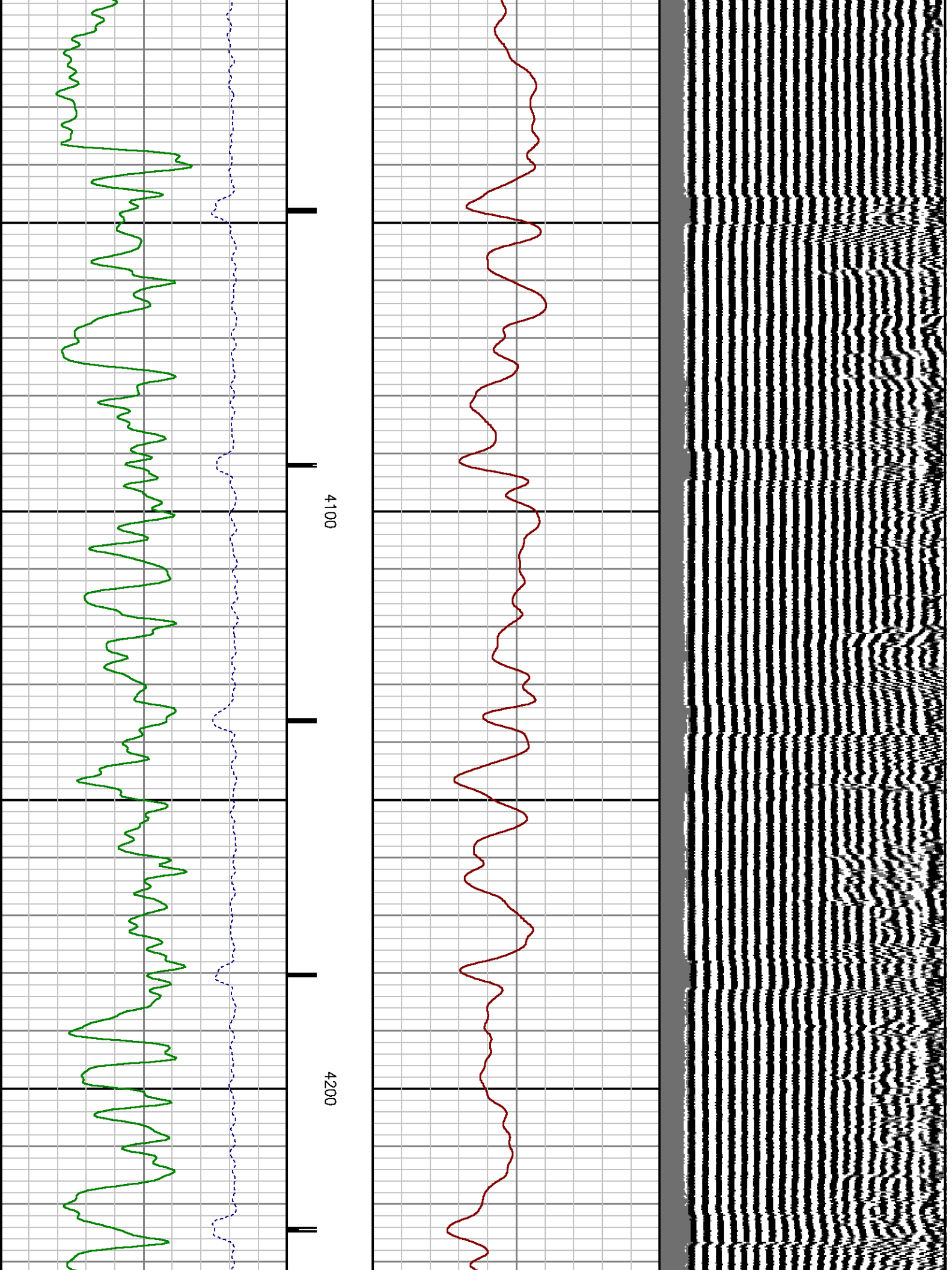




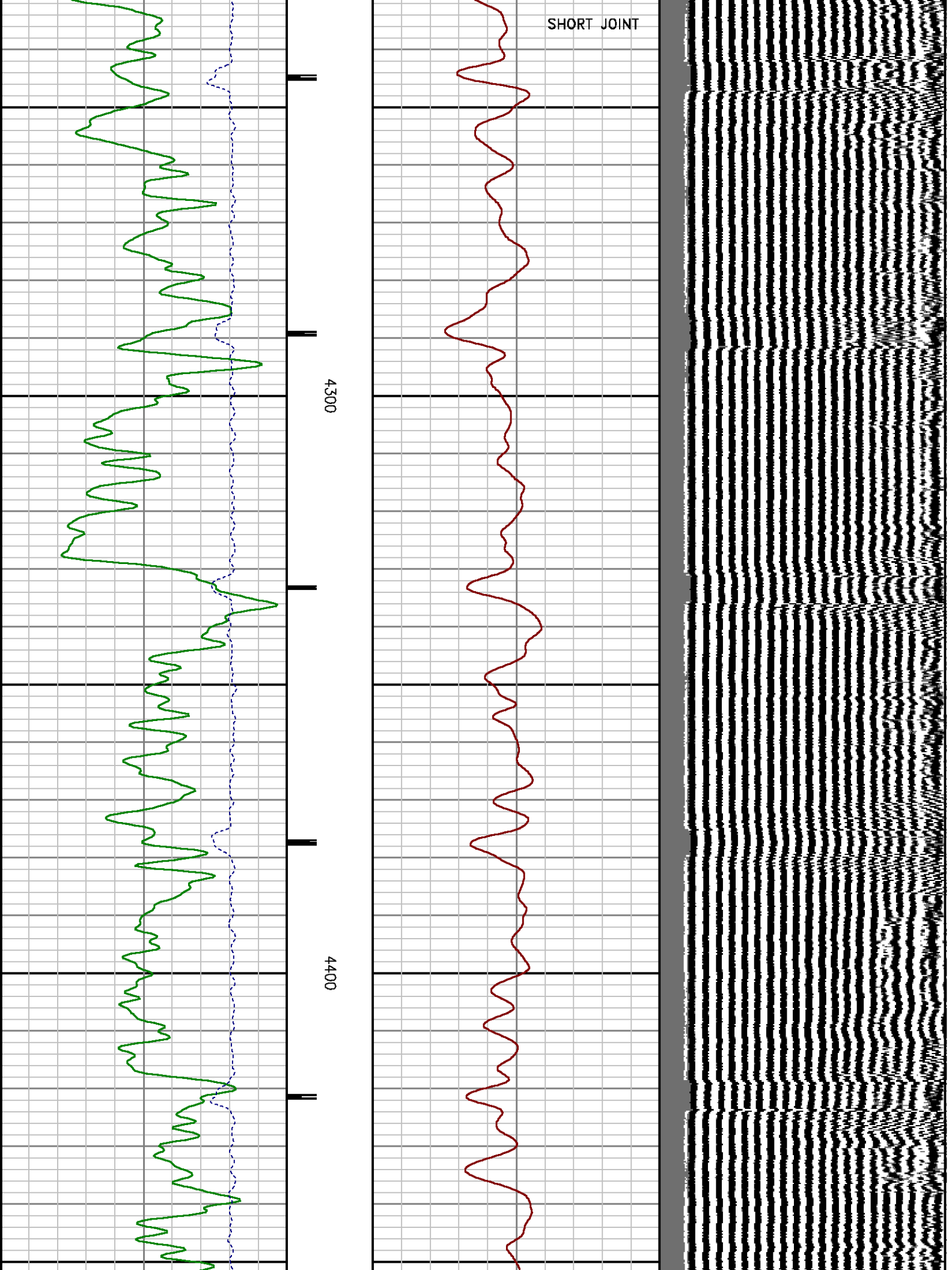


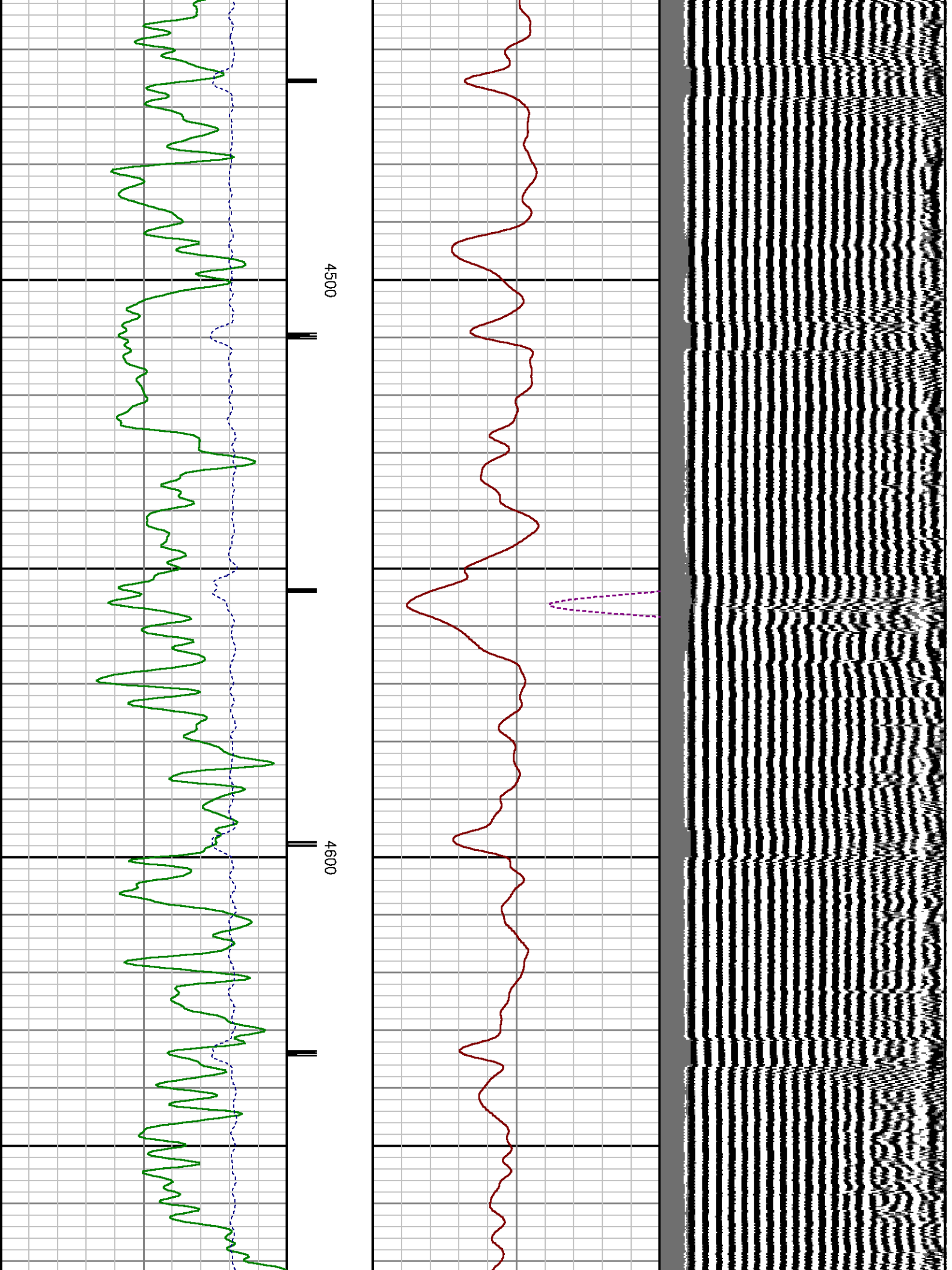


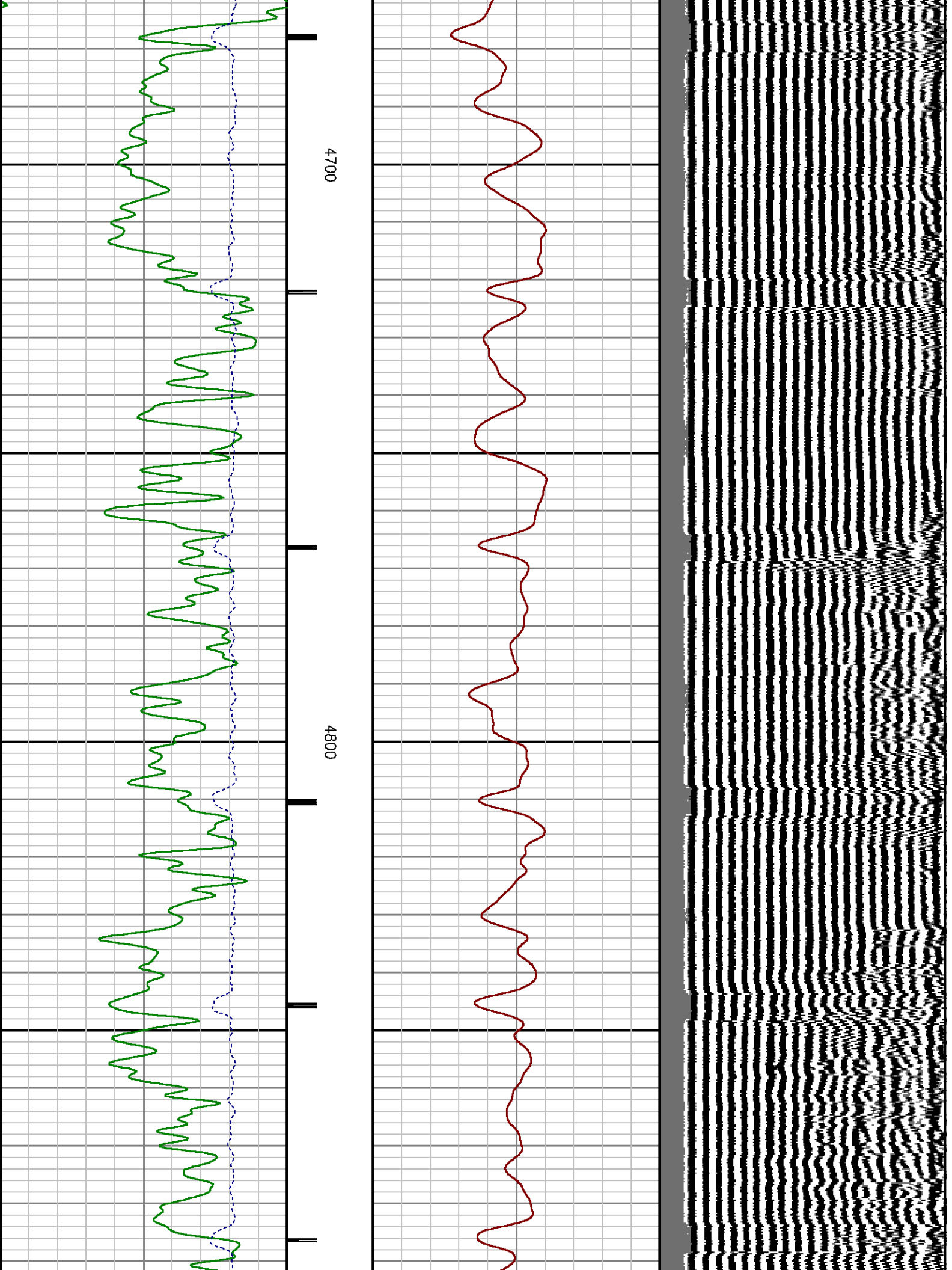


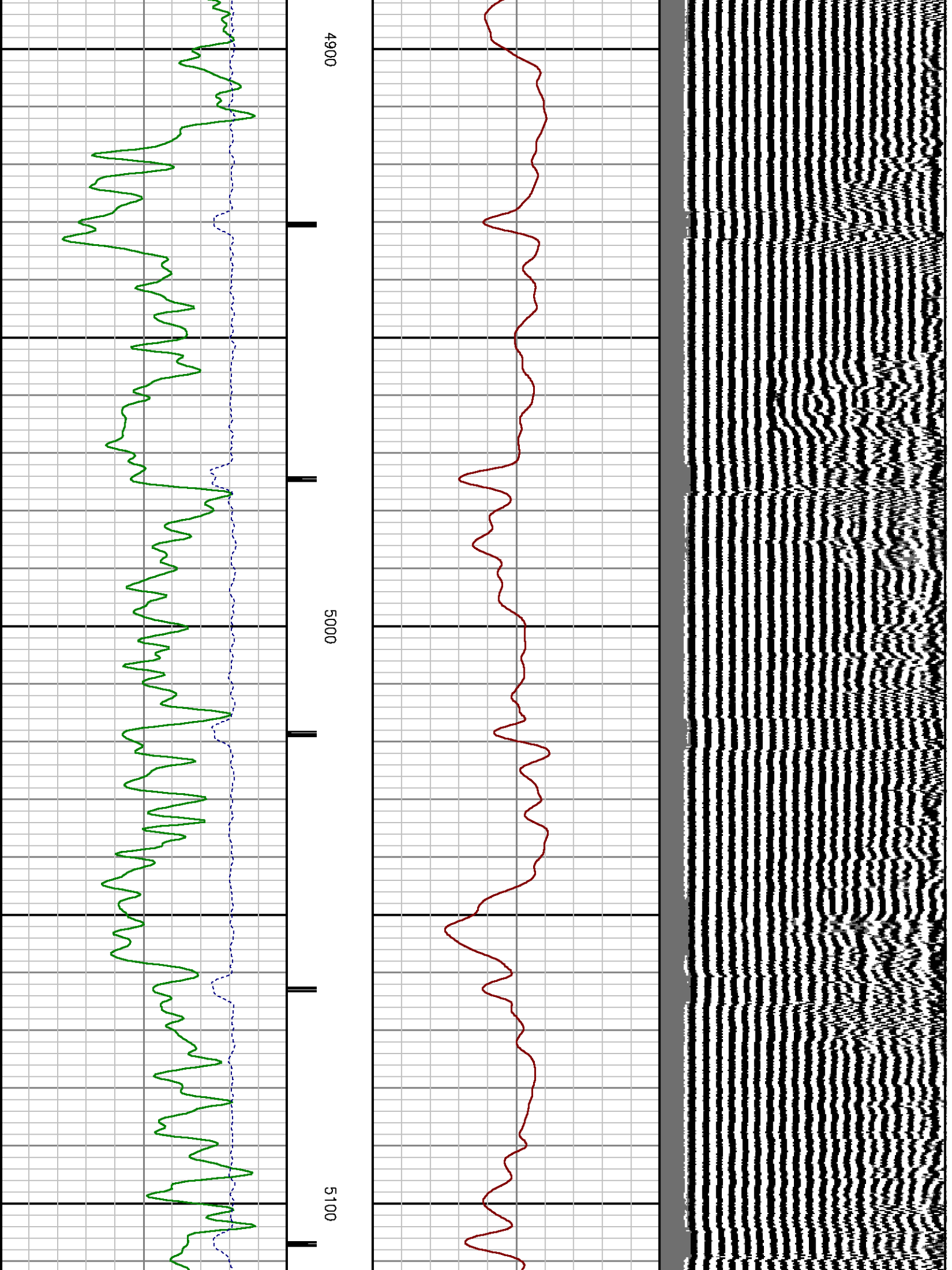


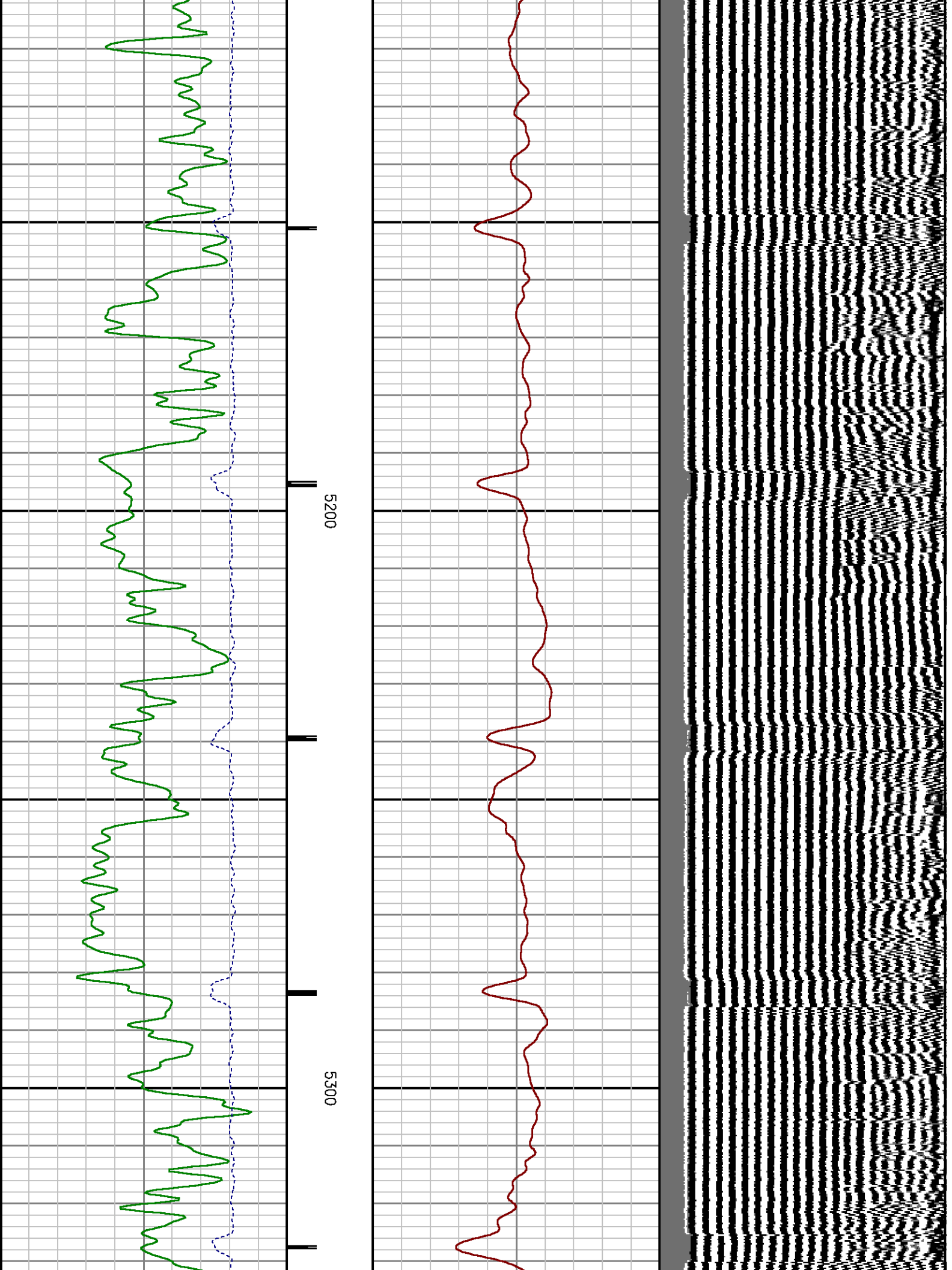
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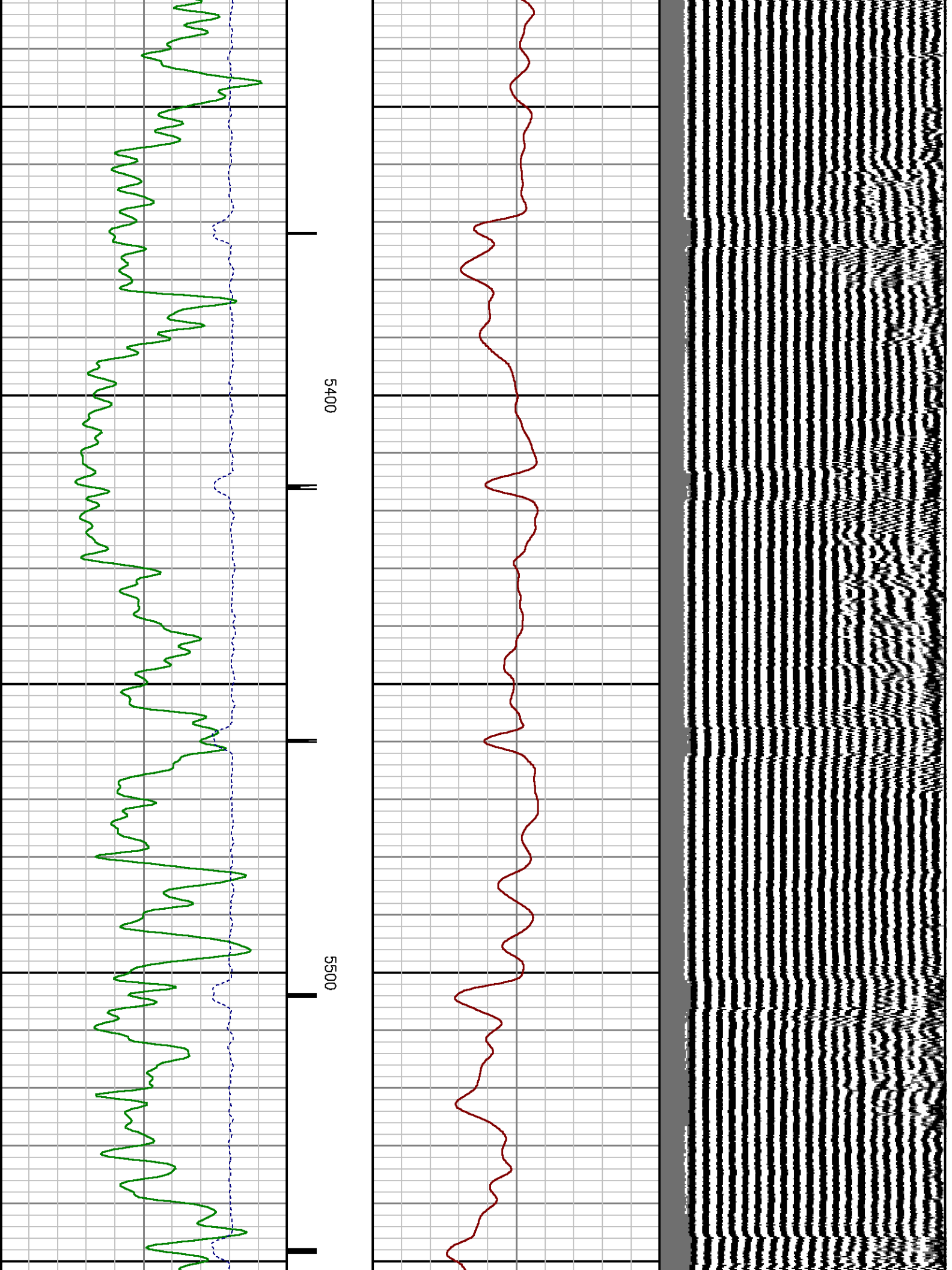


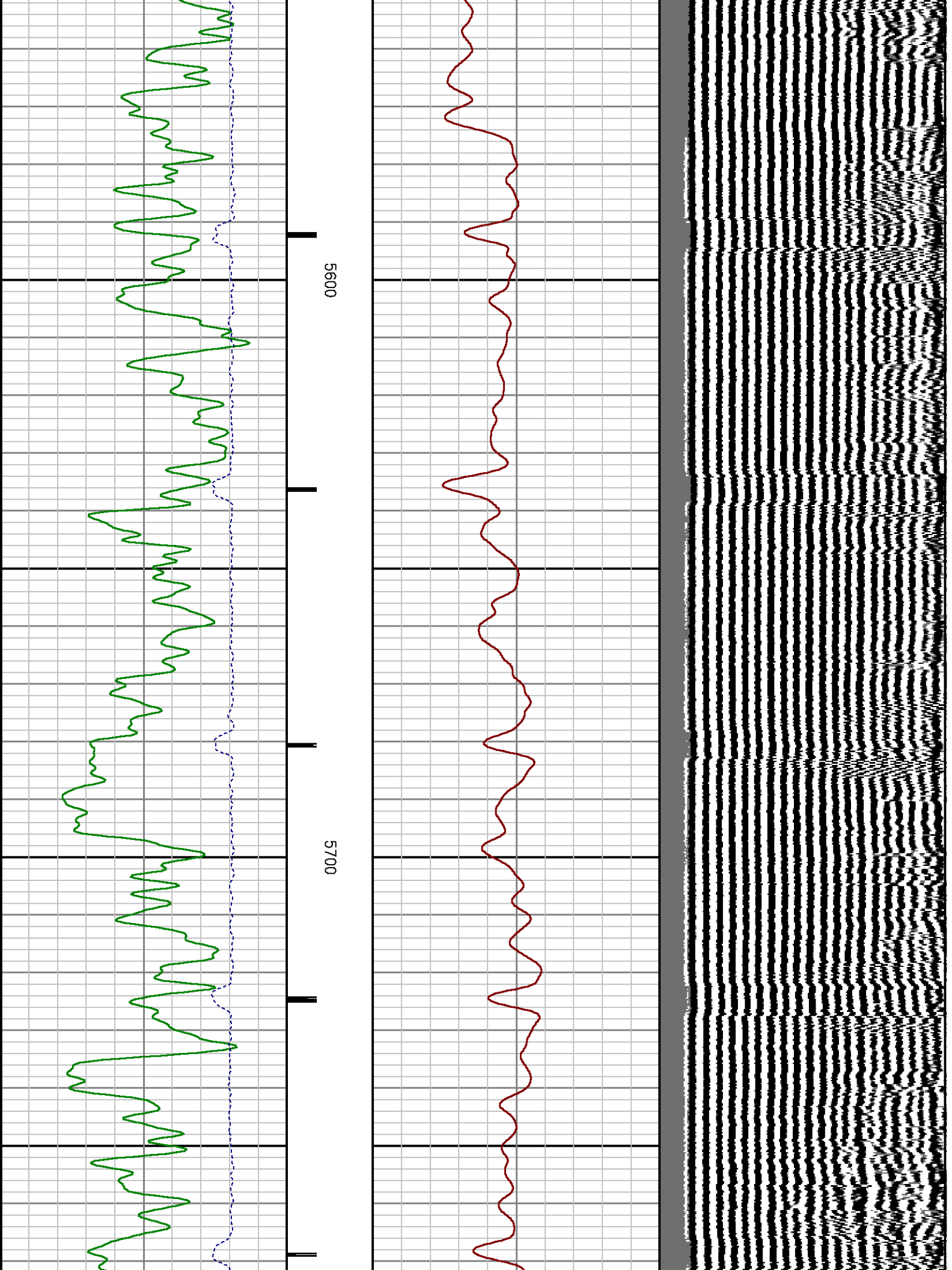


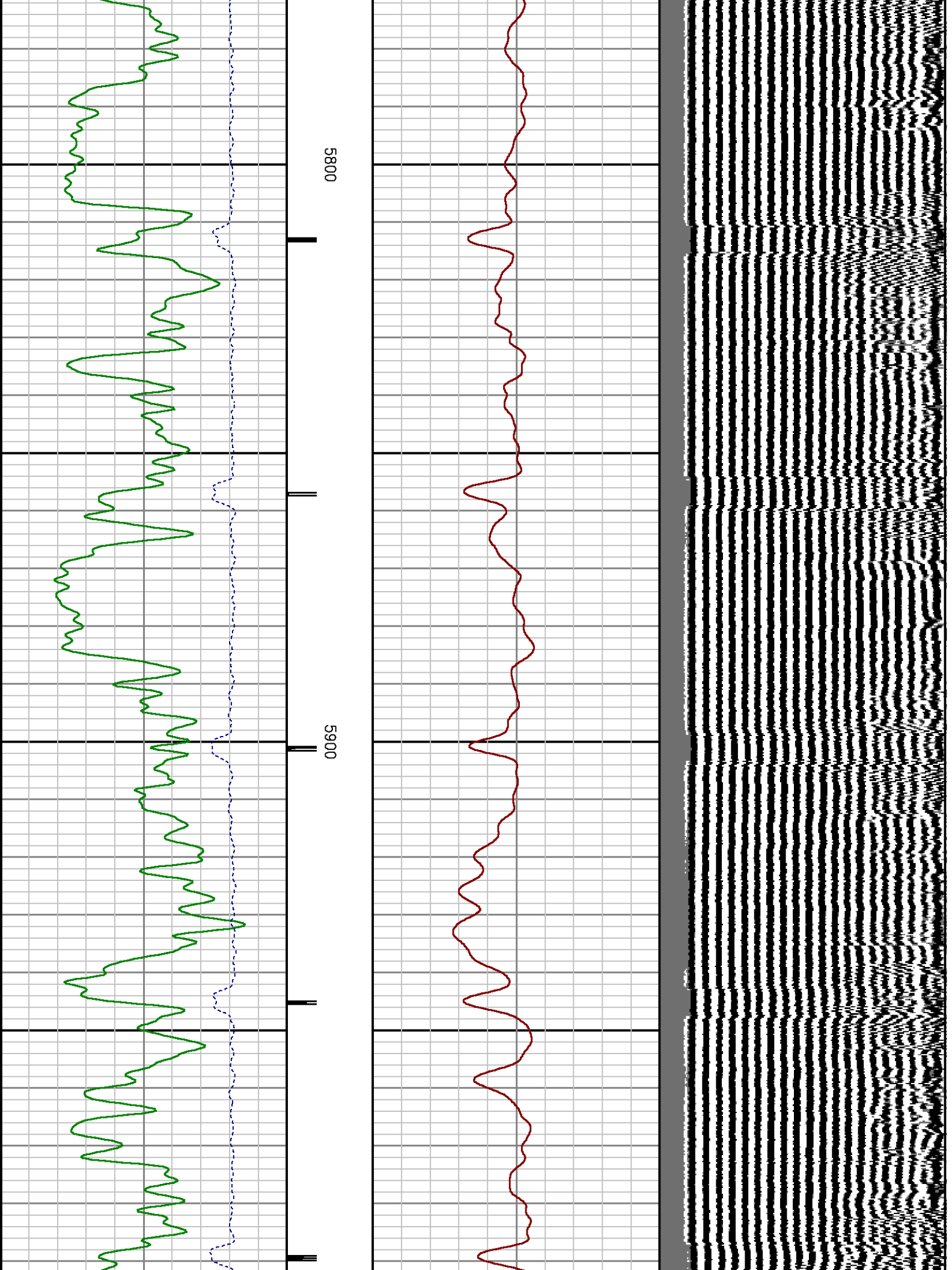


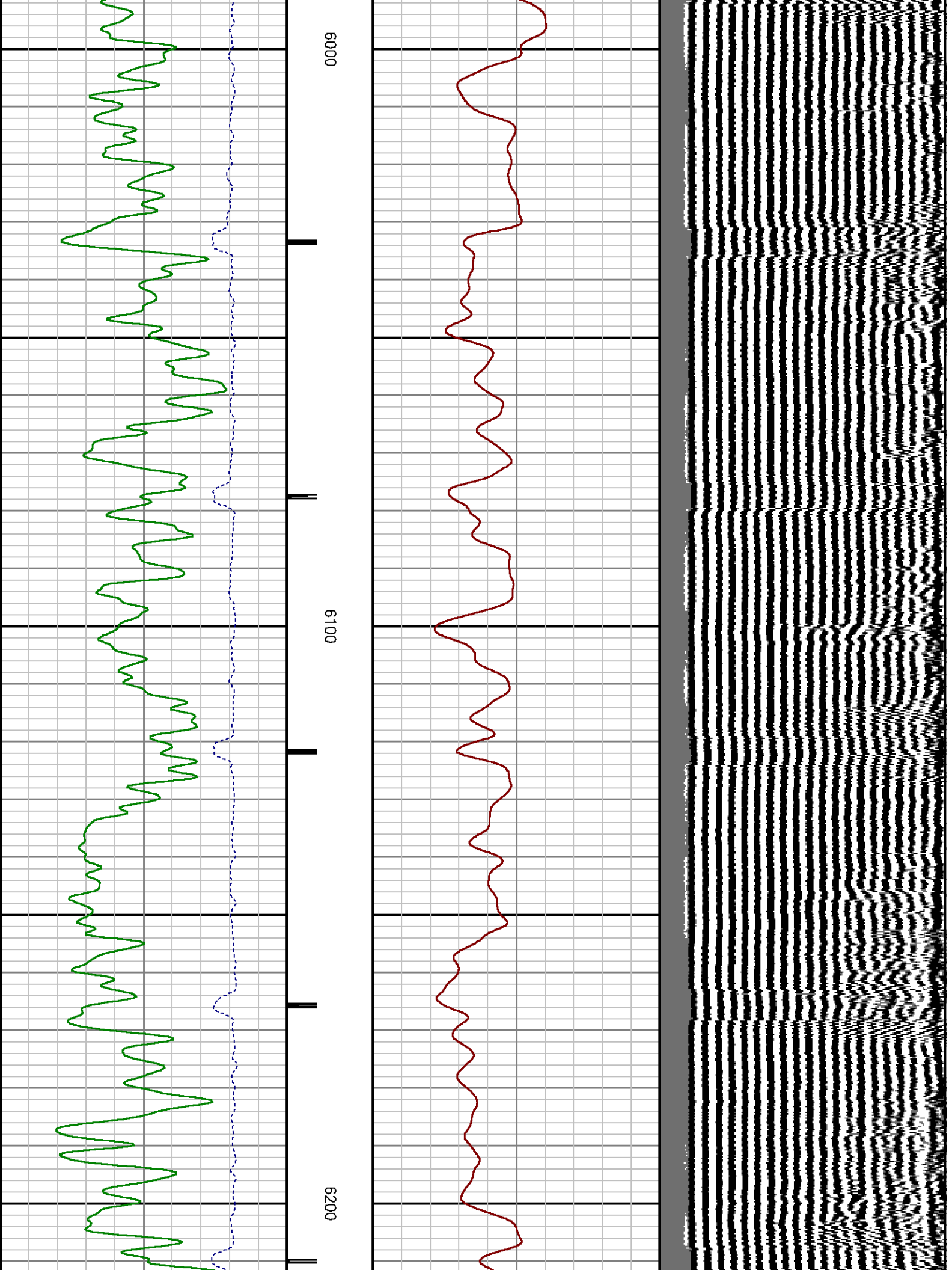


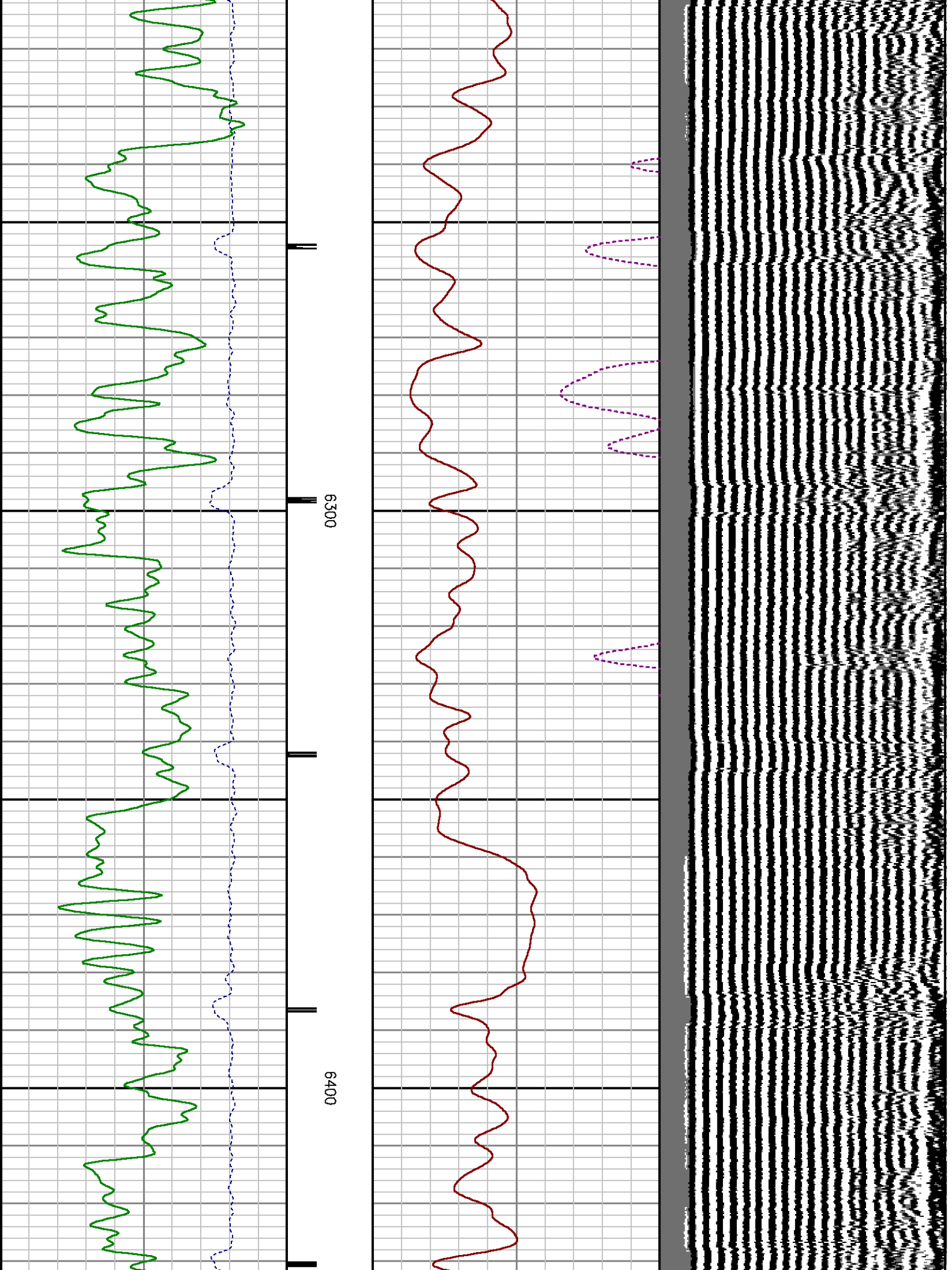


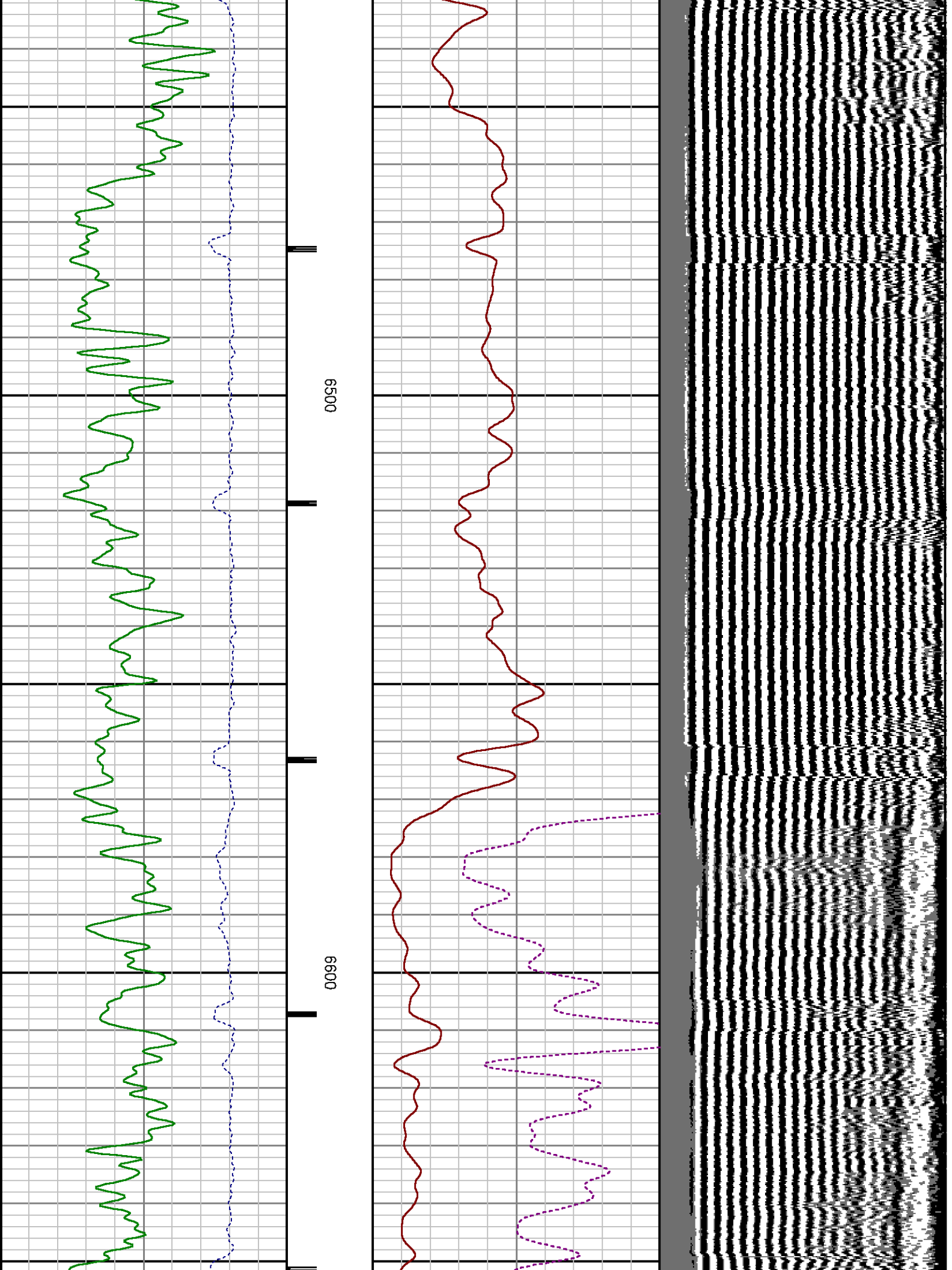


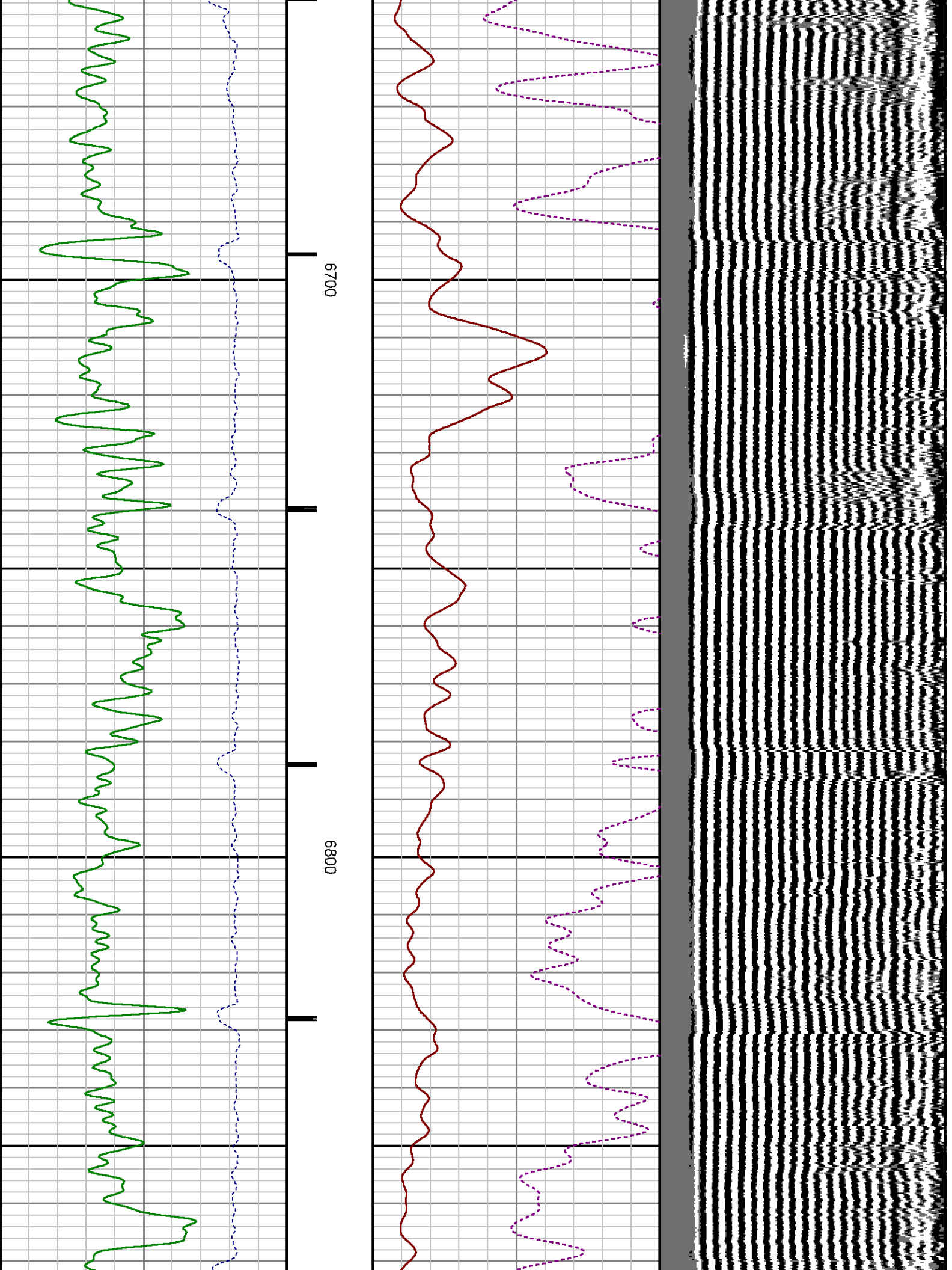


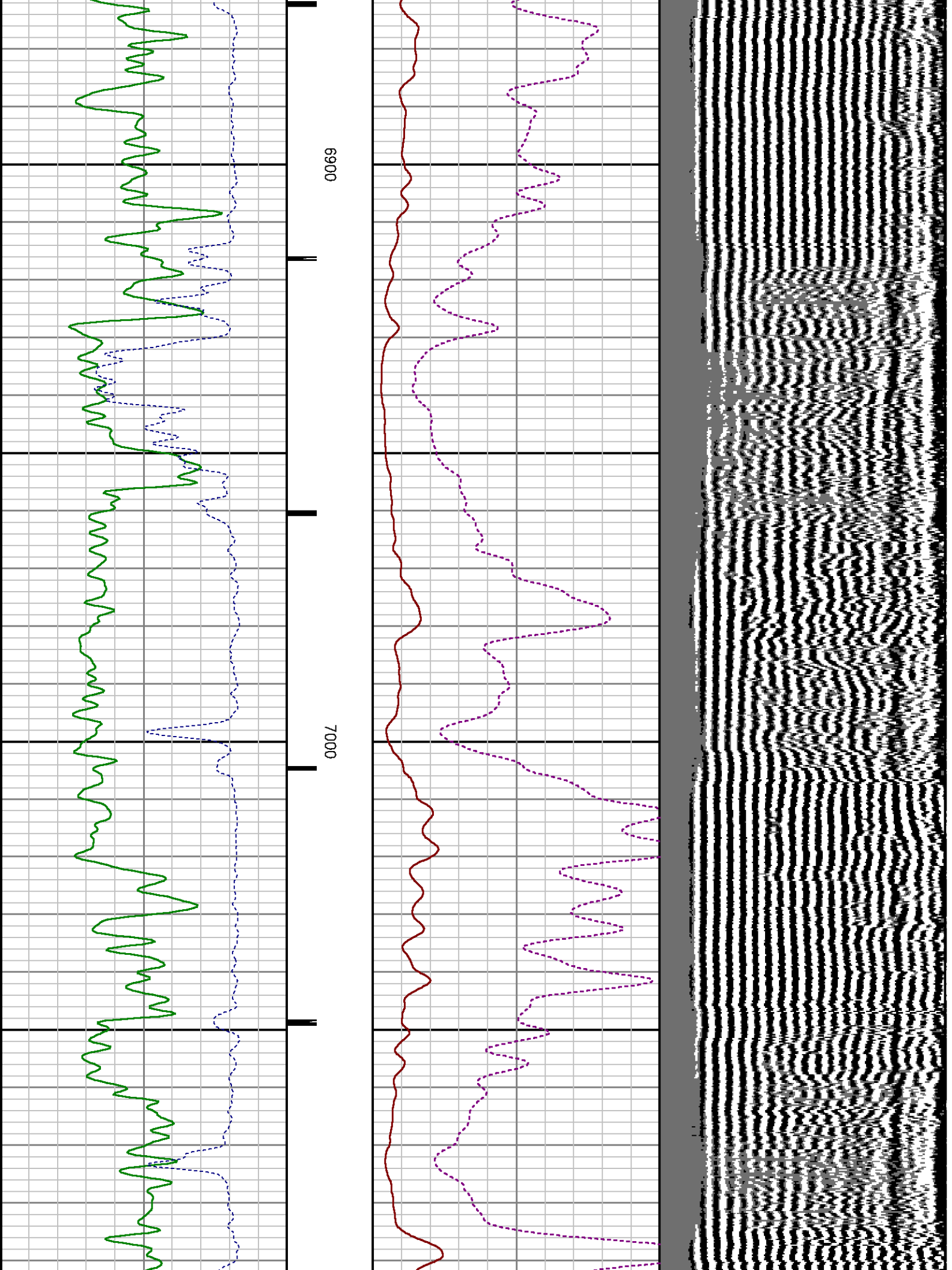


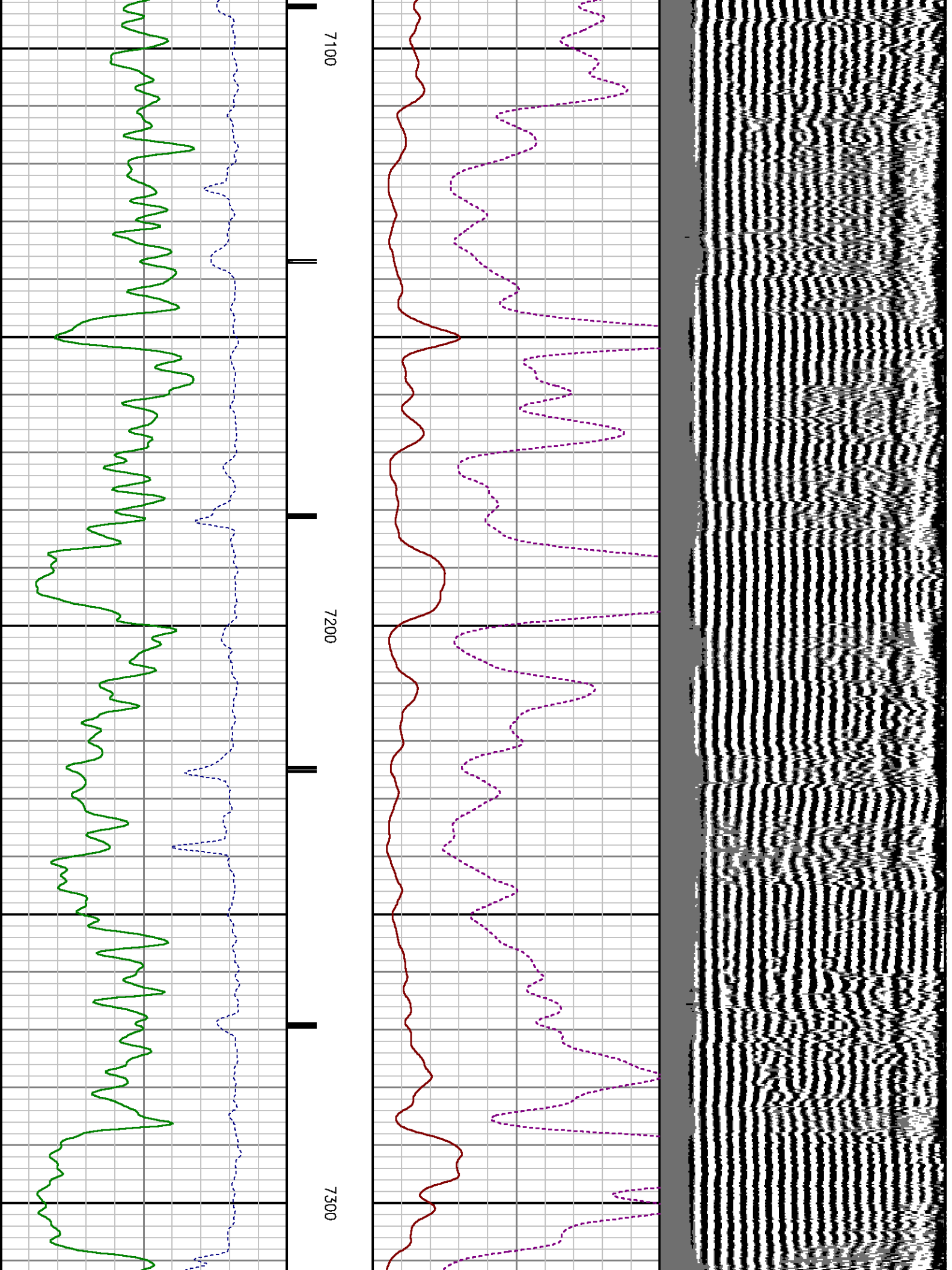


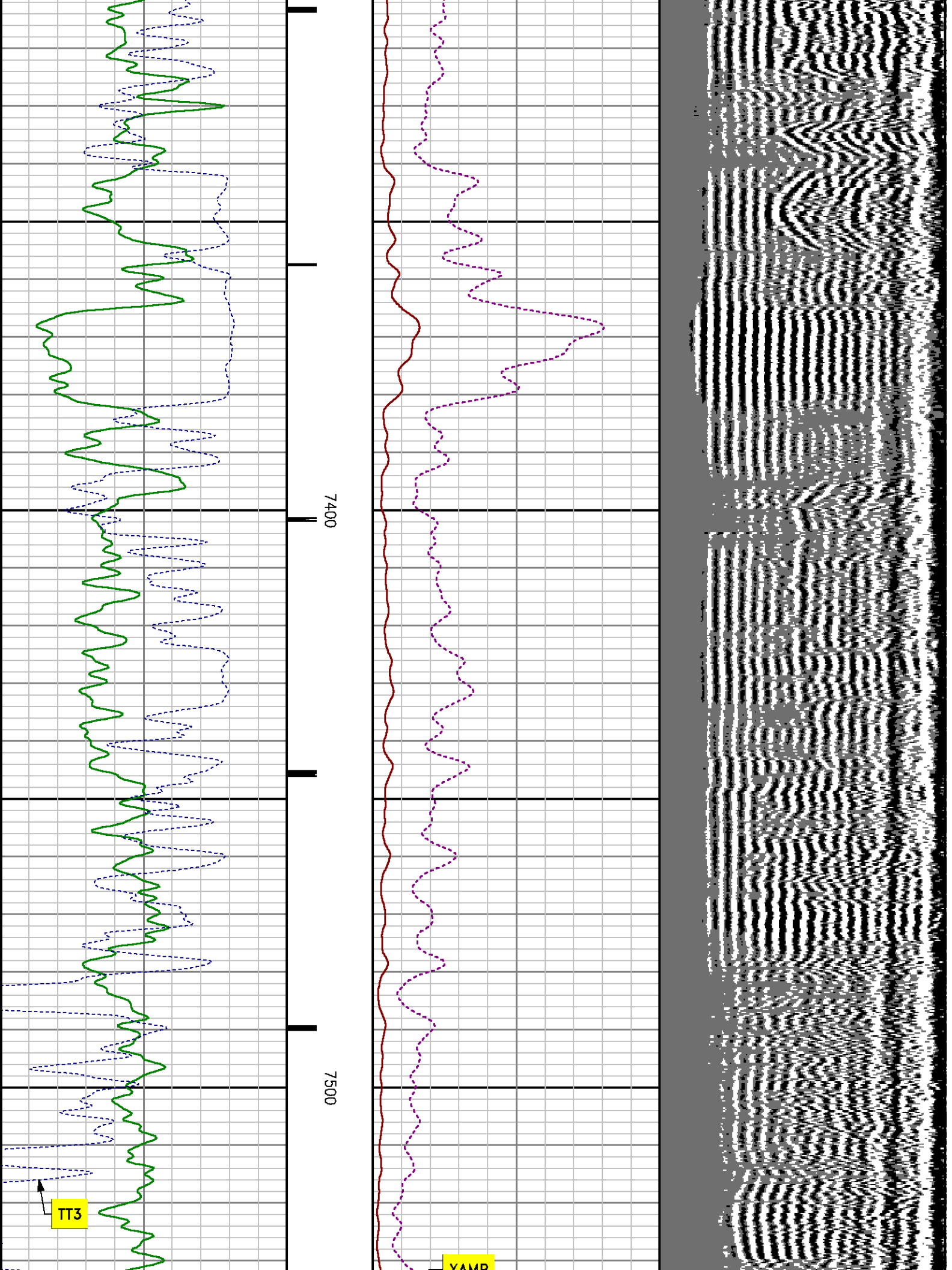


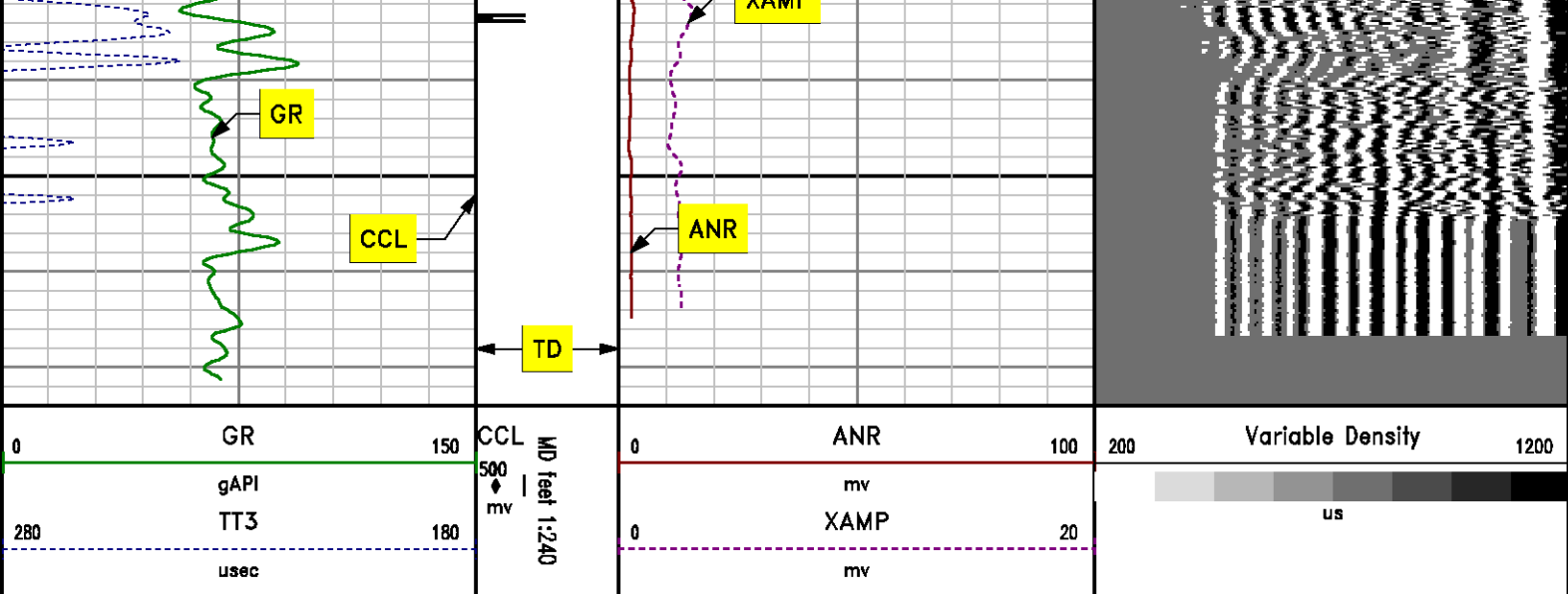












SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	36.406	3821.000
RAL	Amp Gate Start Near	195.000	usec	36.406	3821.000
RAL	Amp Gate Start Radial	195.000	usec	36.406	3821.000
RAL	Amp Gate Width Far	25.000	usec	36.406	3821.000
RAL	Amp Gate Width Near	25.000	usec	36.406	3821.000
RAL	Amp Gate Width Radial	25.000	usec	36.406	3821.000
RAL	casing od	4.500	inches	36.406	3821.000
RAL	casing wt	11.600	lbm/ft	36.406	3821.000
RAL	FB Start Far	291.900	usec	36.406	3821.000
RAL	FB Start Near	175.391	usec	36.406	3821.000
RAL	FB Start Radial	175.391	usec	36.406	3821.000
RAL	FB Thresh Far	10.000	mv	36.406	3821.000
RAL	FB Thresh Near	4.000	mv	36.406	3821.000
RAL	FB Thresh Radial	4.000	mv	36.406	3821.000
RAL	Fluid Travel Time	200.000	usec/ft	36.406	3821.000
RAL	Amp Gate Start Far	300.000	usec	3821.000	7582.000
RAL	Amp Gate Start Near	195.000	usec	3821.000	7582.000
RAL	Amp Gate Start Radial	195.000	usec	3821.000	7582.000
RAL	Amp Gate Width Far	25.000	usec	3821.000	7582.000
RAL	Amp Gate Width Near	25.000	usec	3821.000	7582.000

RAL	Amp Gate Width Radial	25.000	usec	3821.000	7582.000
RAL	casing od	4.500	inches	3821.000	7582.000
RAL	casing wt	11.600	lbm/ft	3821.000	7582.000
RAL	FB Start Far	291.900	usec	3821.000	7582.000
RAL	FB Start Near	175.391	usec	3821.000	7582.000
RAL	FB Start Radial	175.391	usec	3821.000	7582.000
RAL	FB Thresh Far	10.000	mv	3821.000	7582.000
RAL	FB Thresh Near	4.000	mv	3821.000	7582.000
RAL	FB Thresh Radial	4.000	mv	3821.000	7582.000
RAL	Fluid Travel Time	200.000	usec/ft	3821.000	7582.000

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

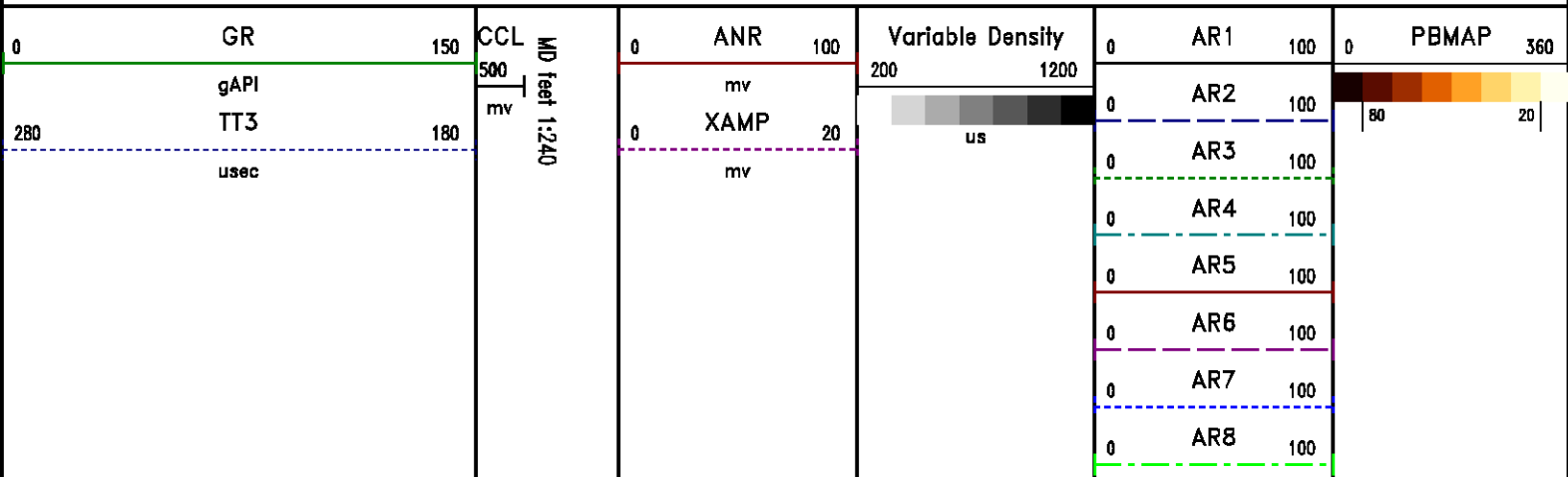
Well : JOLLEY KP 14-9

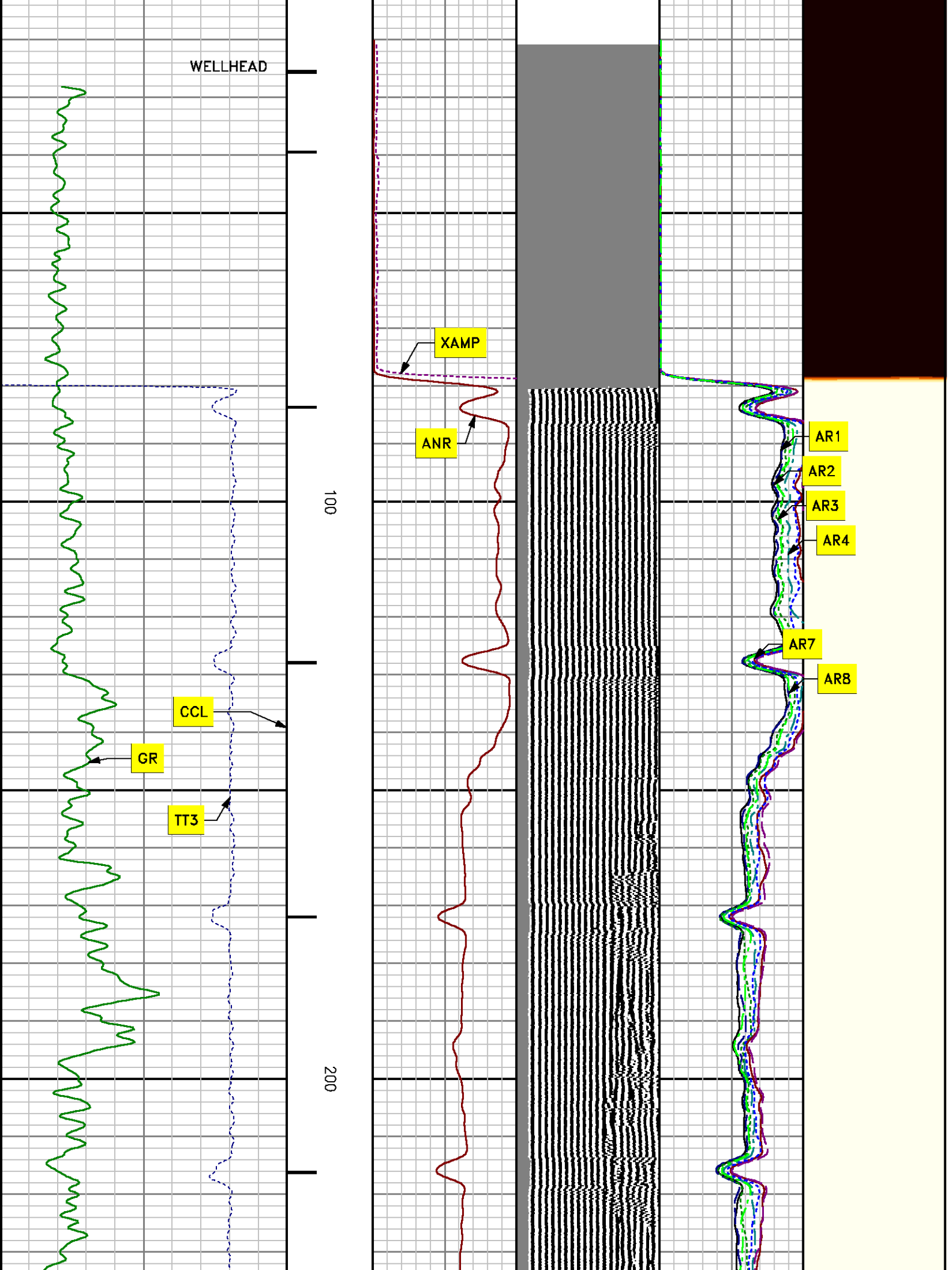
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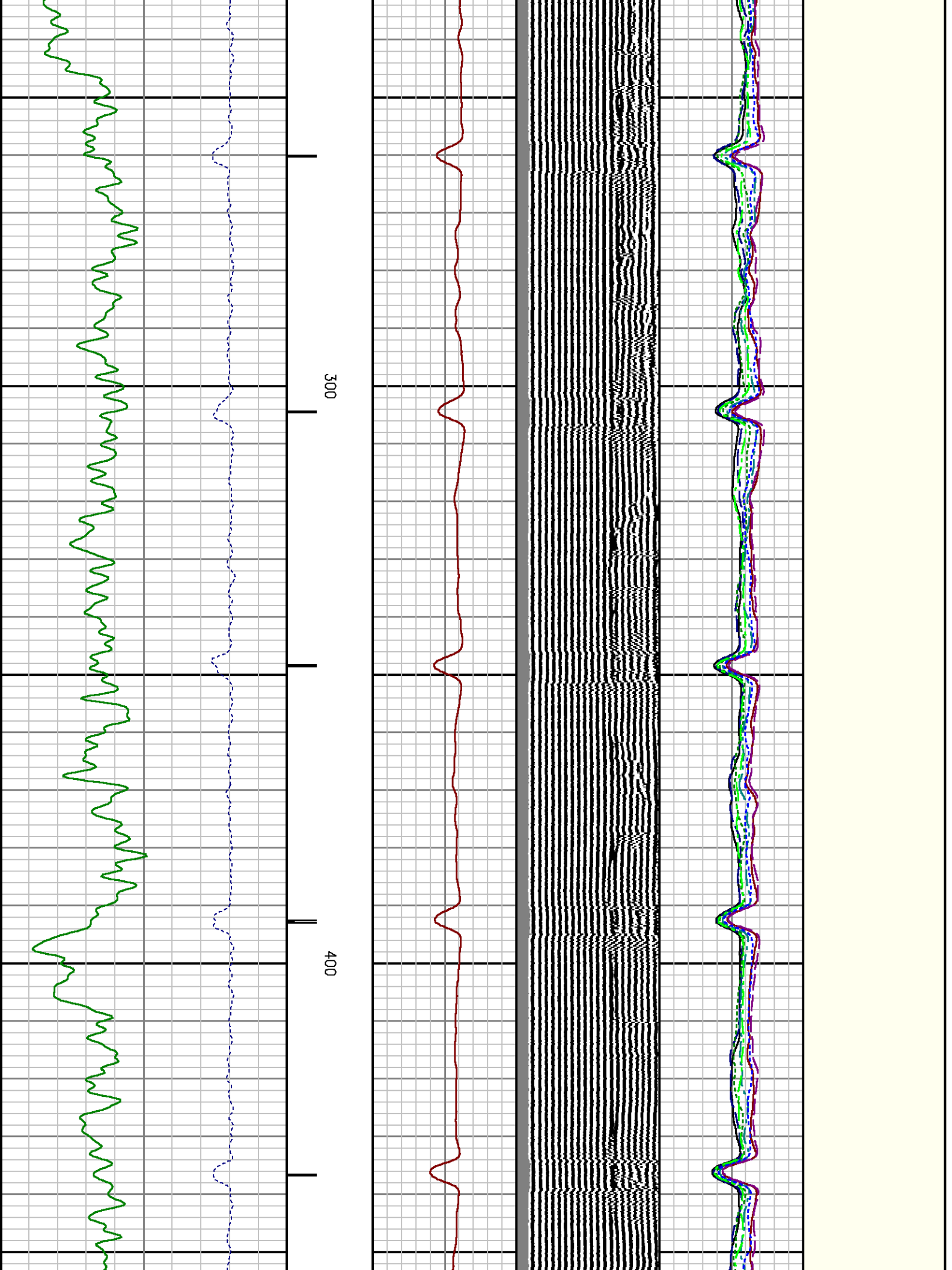
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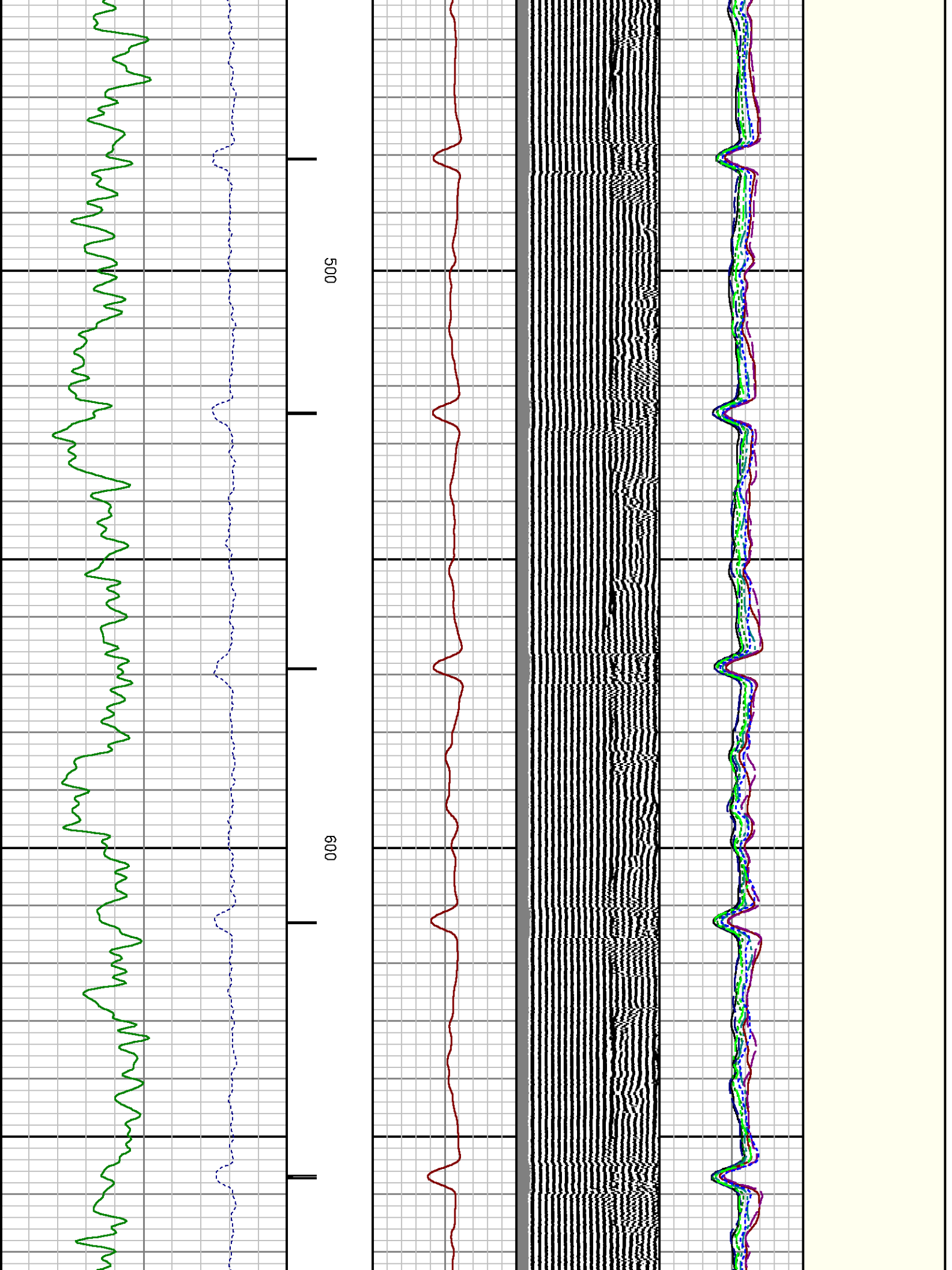
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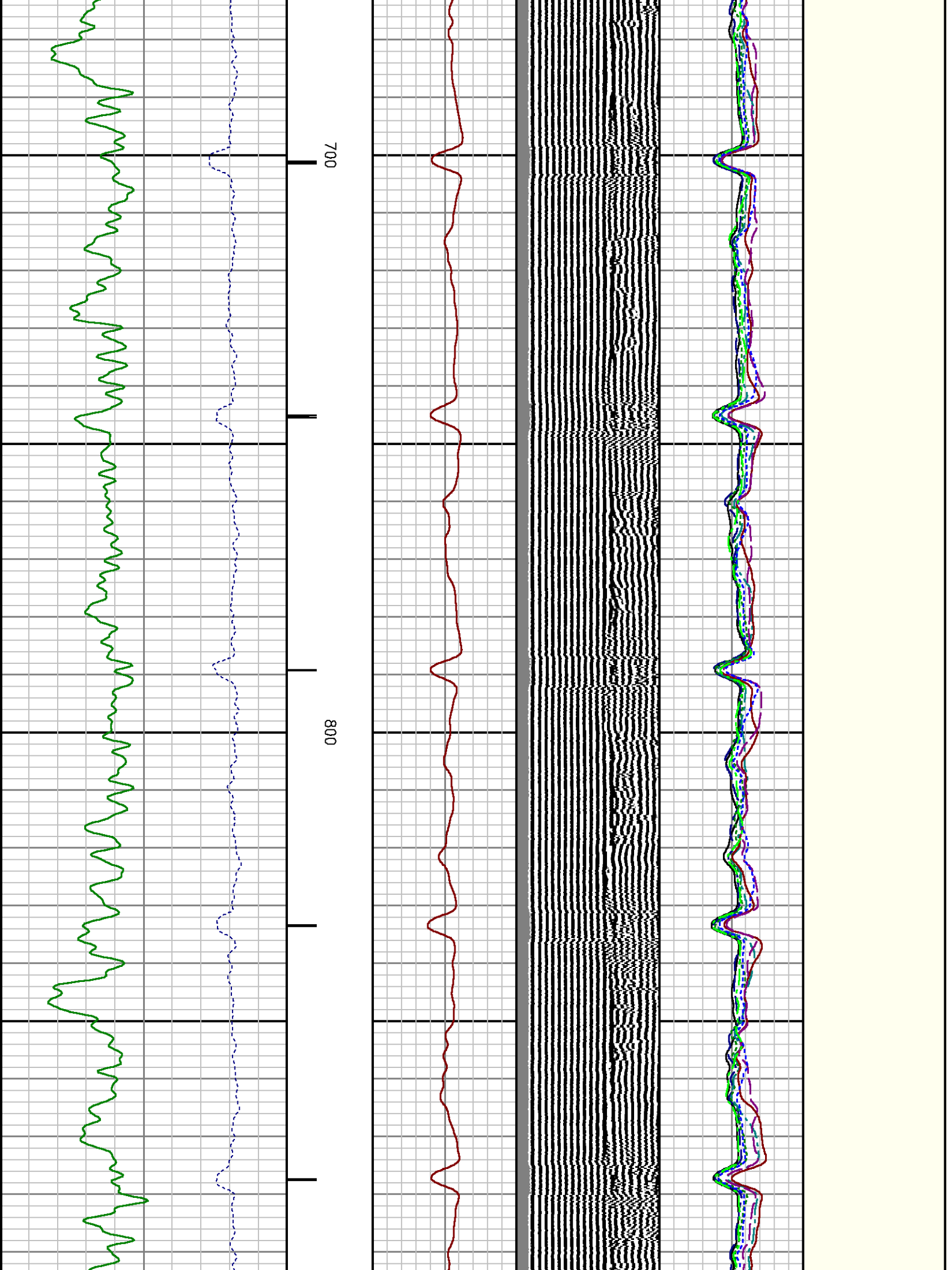
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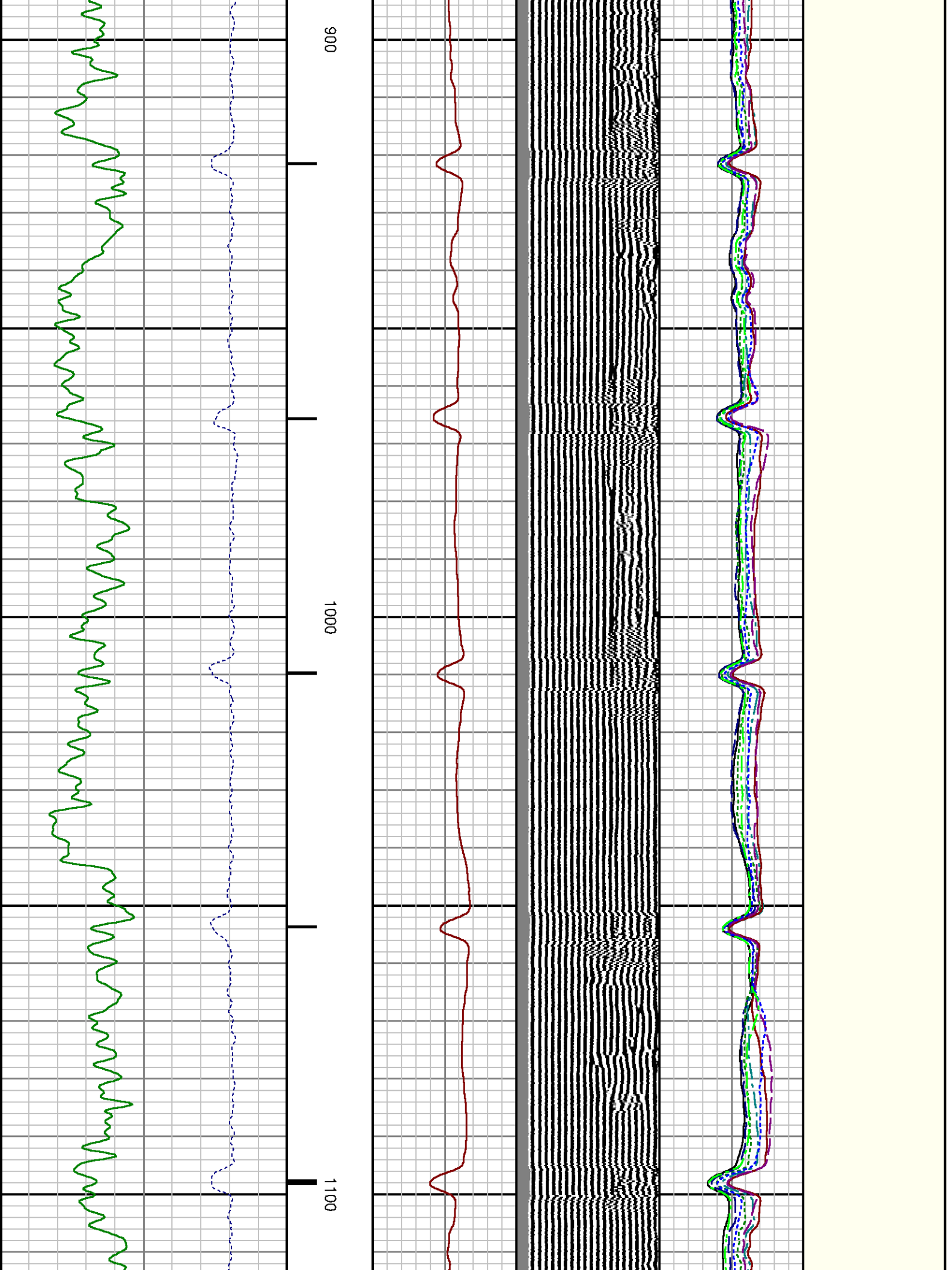


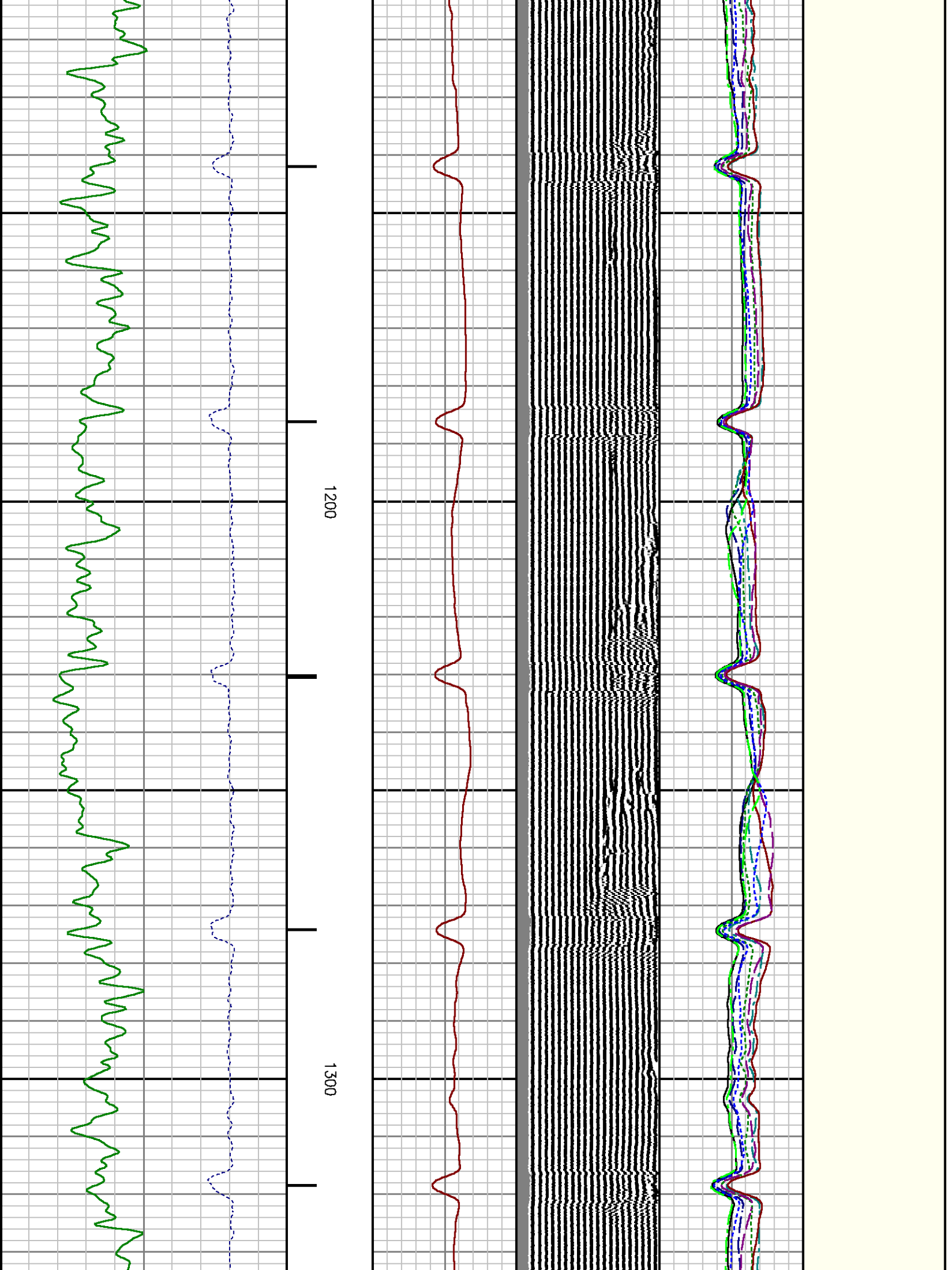


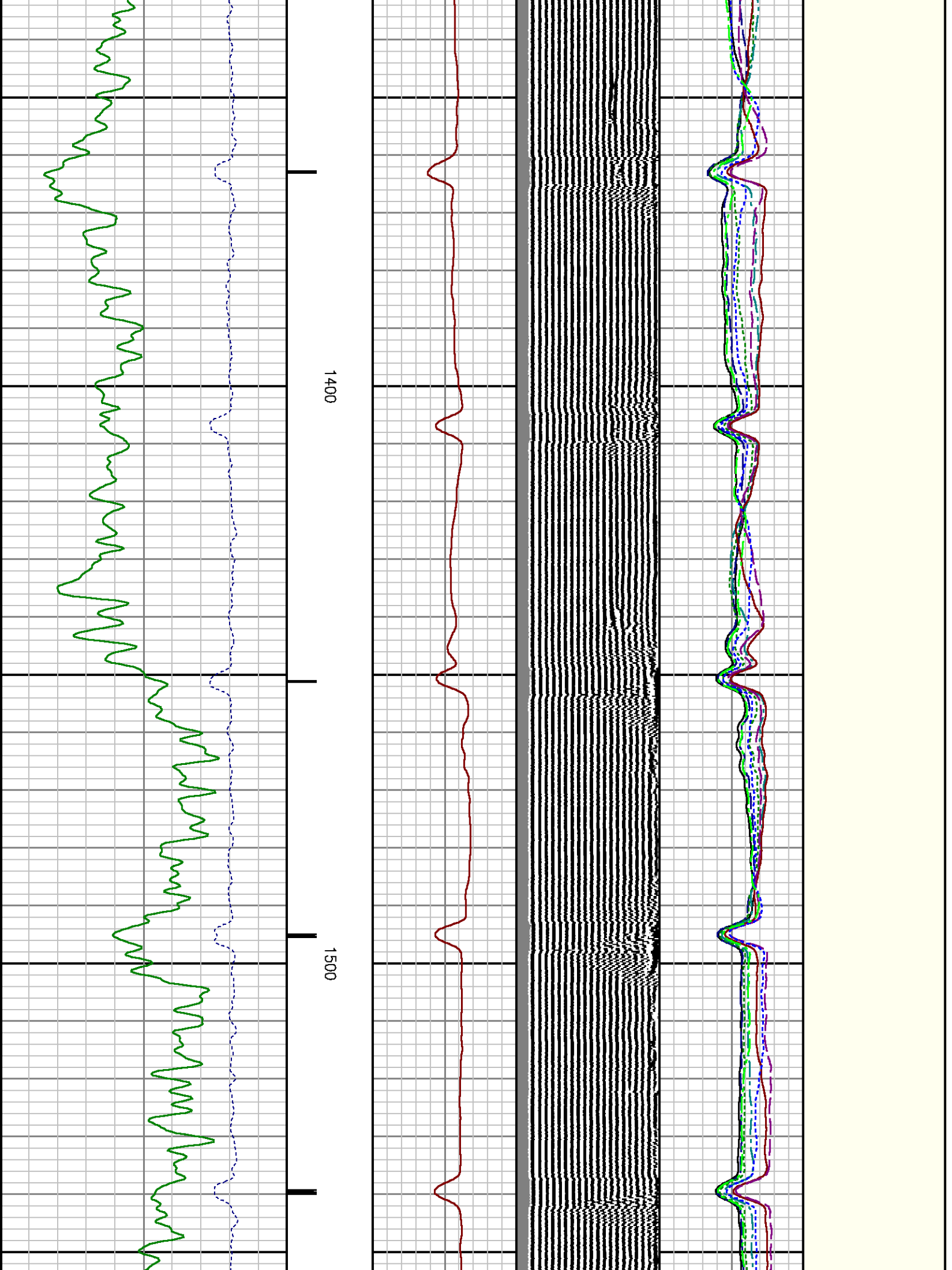


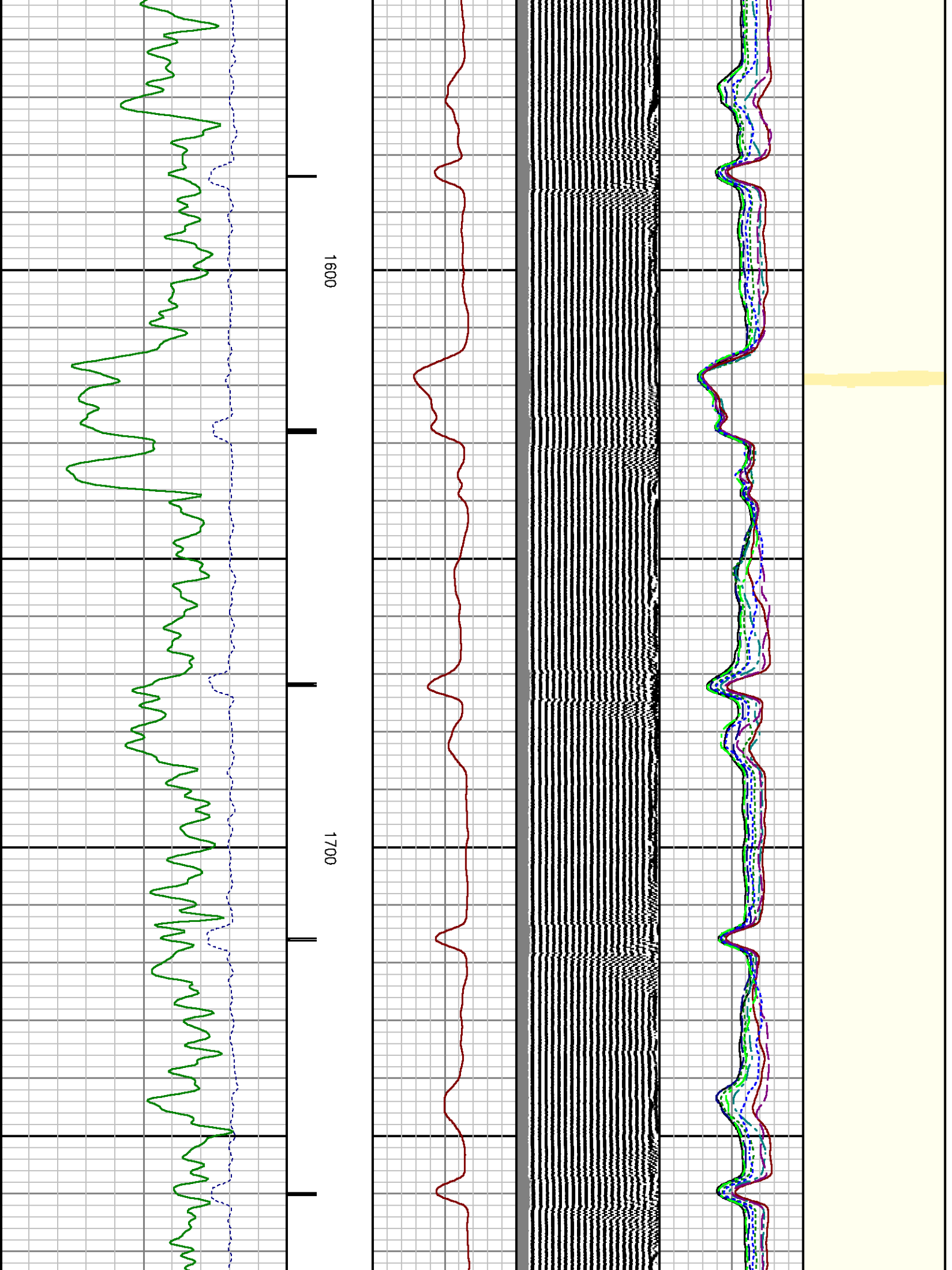


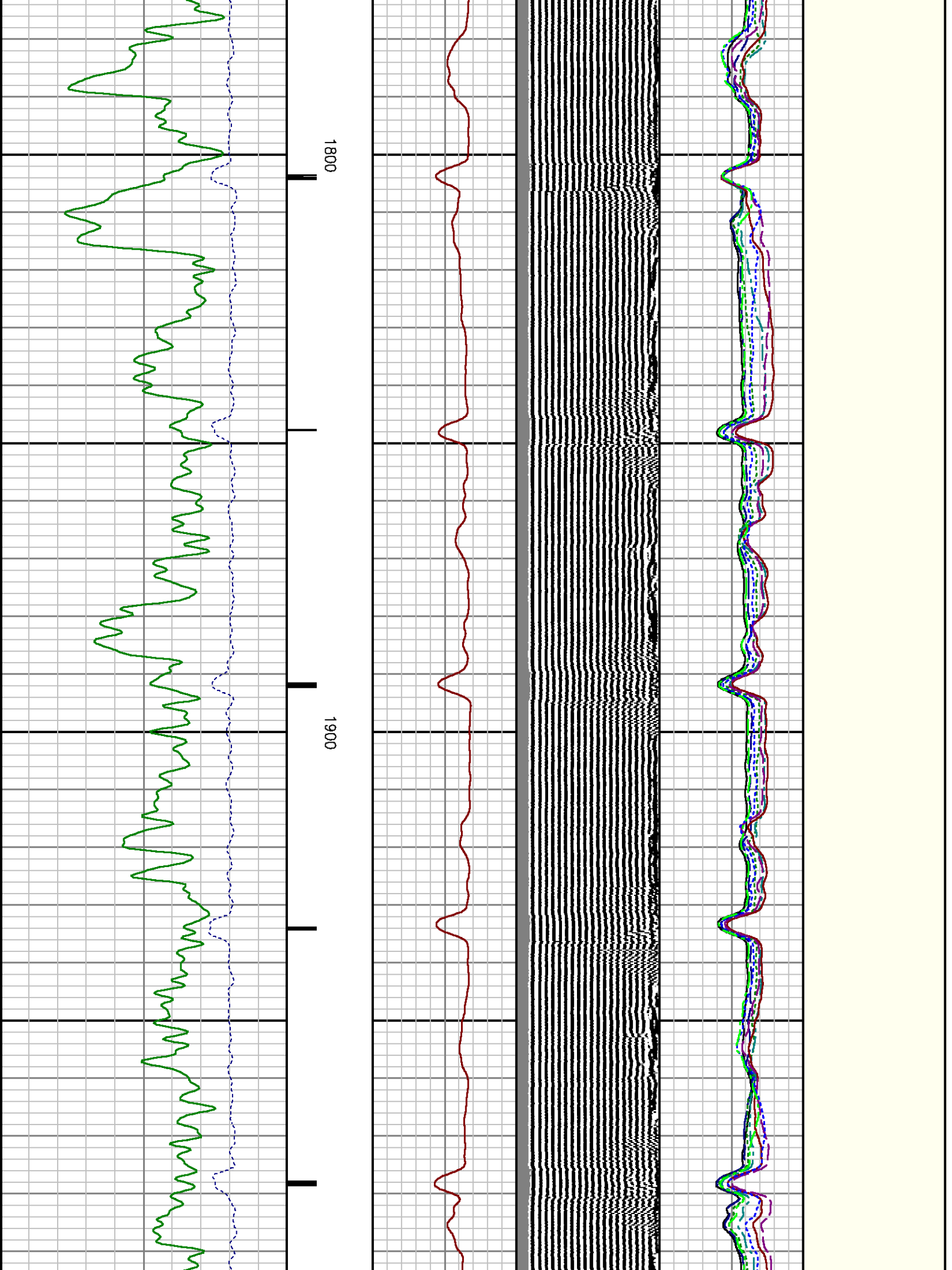


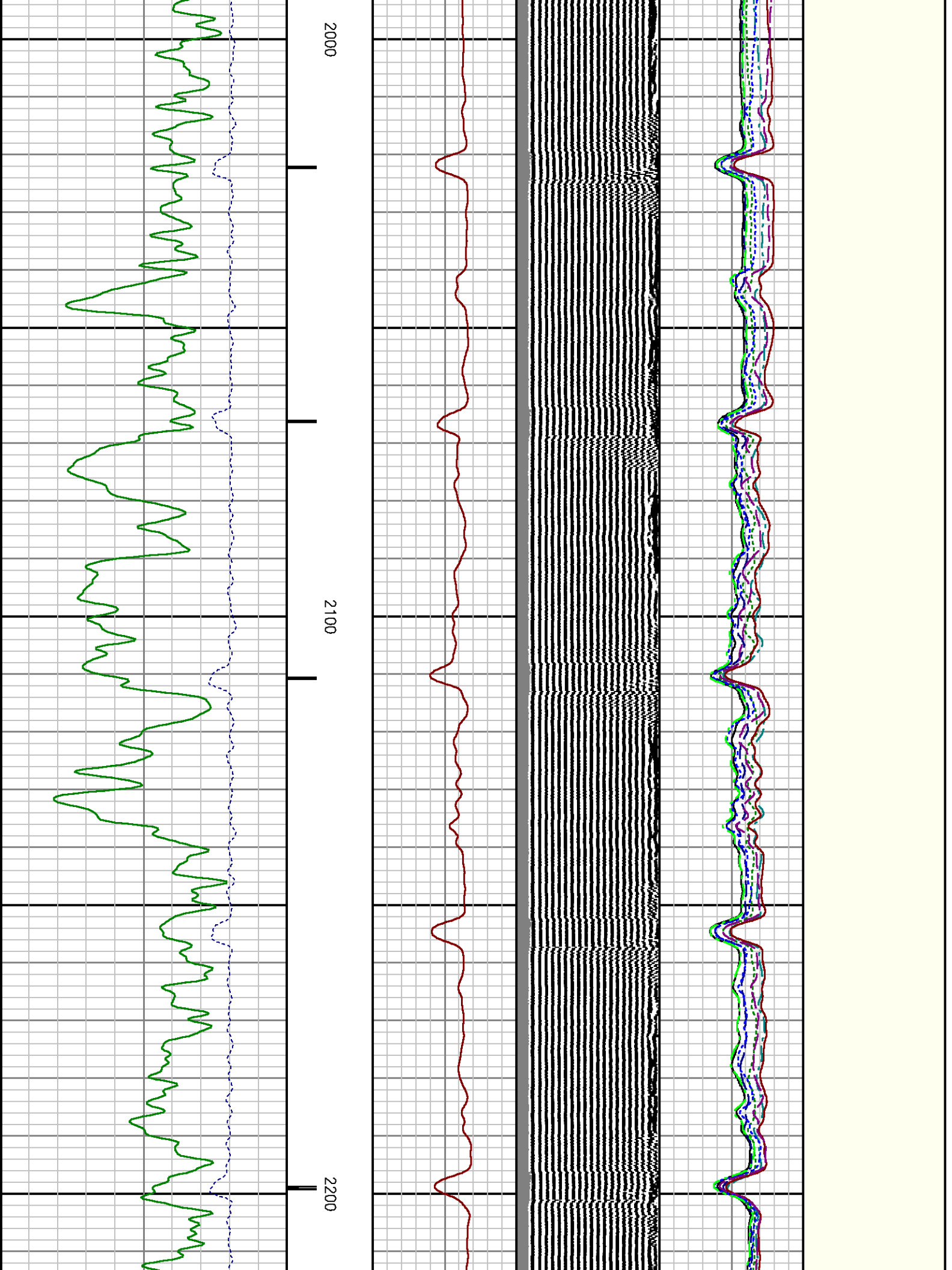


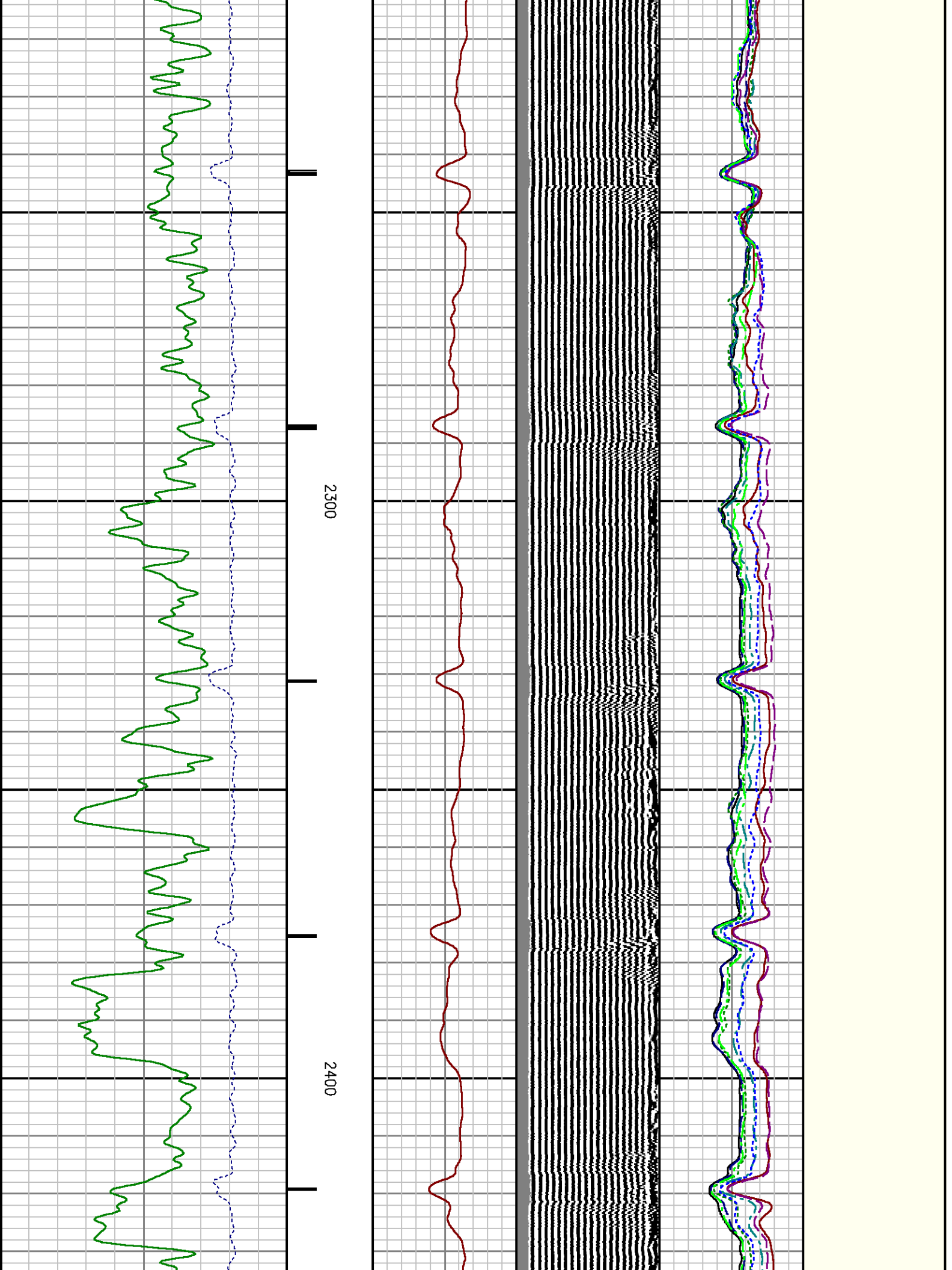


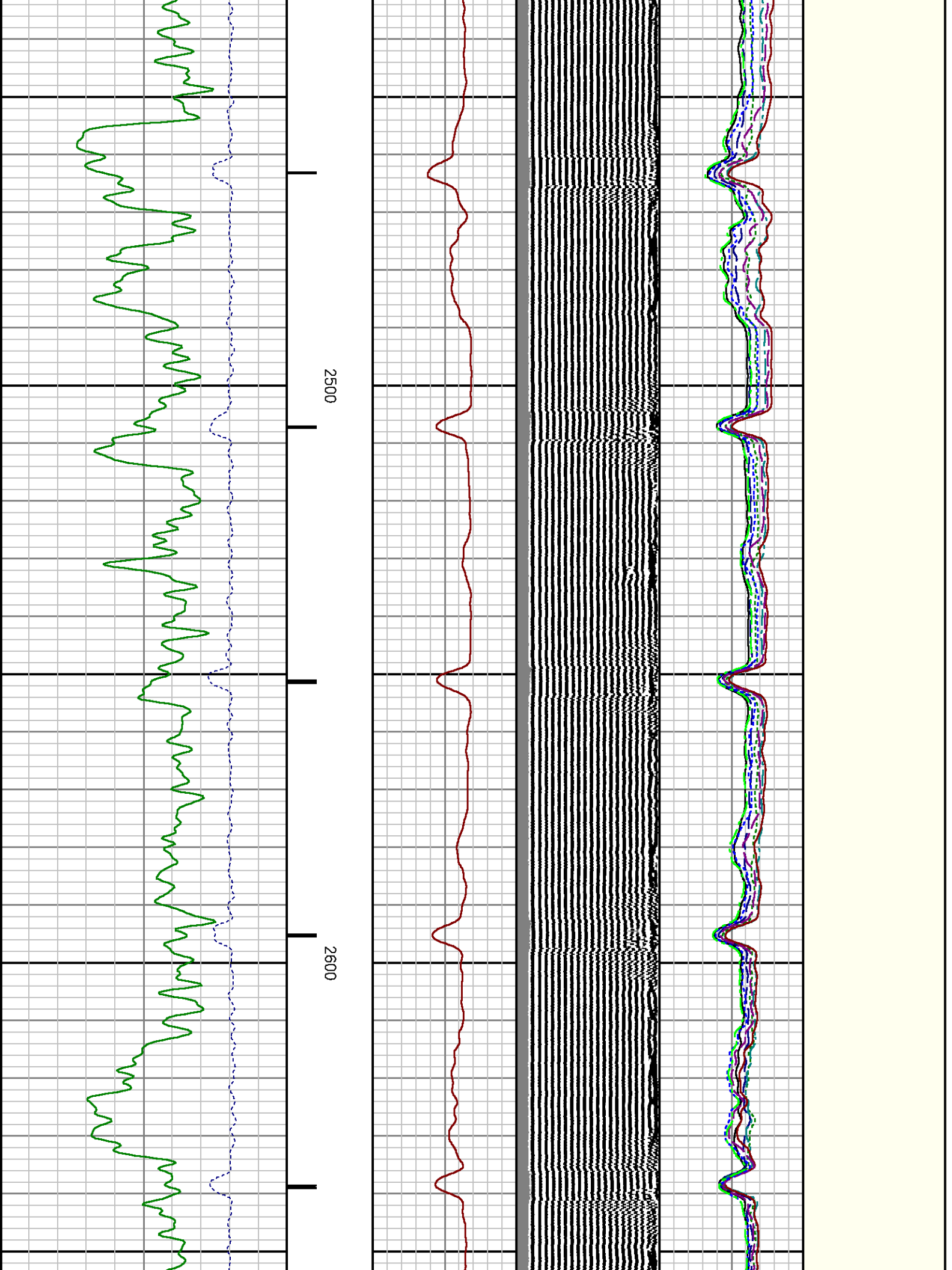


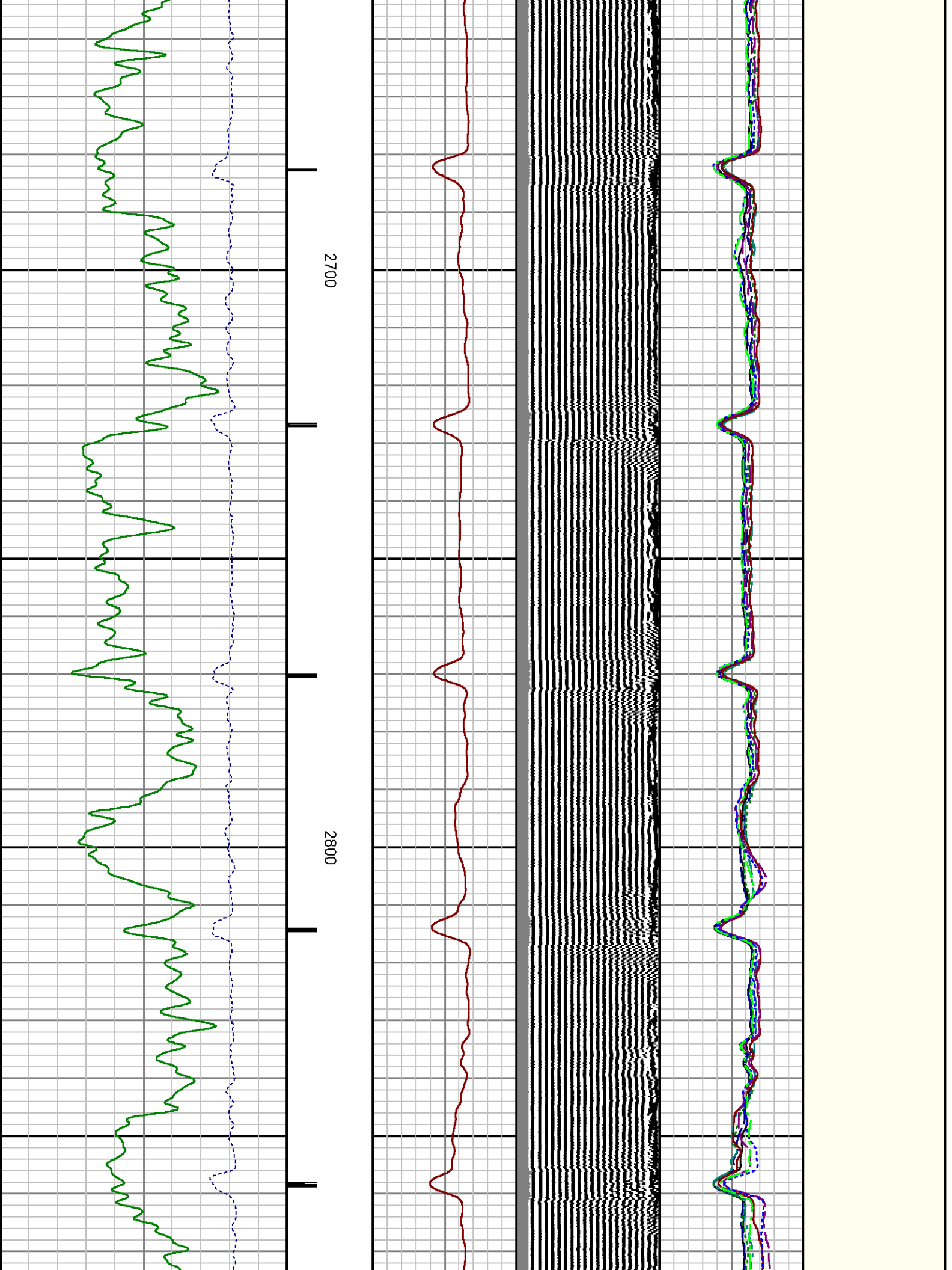


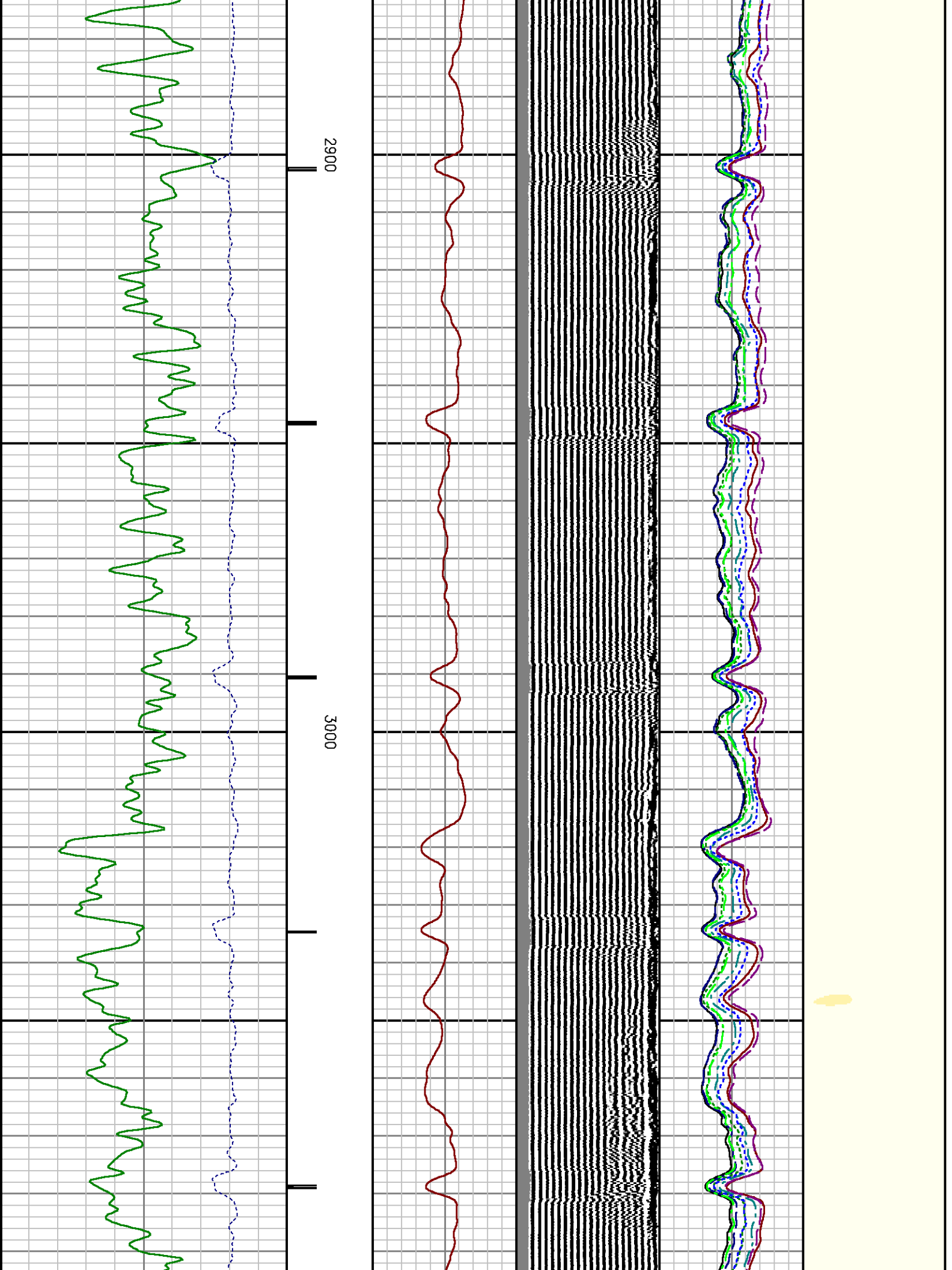


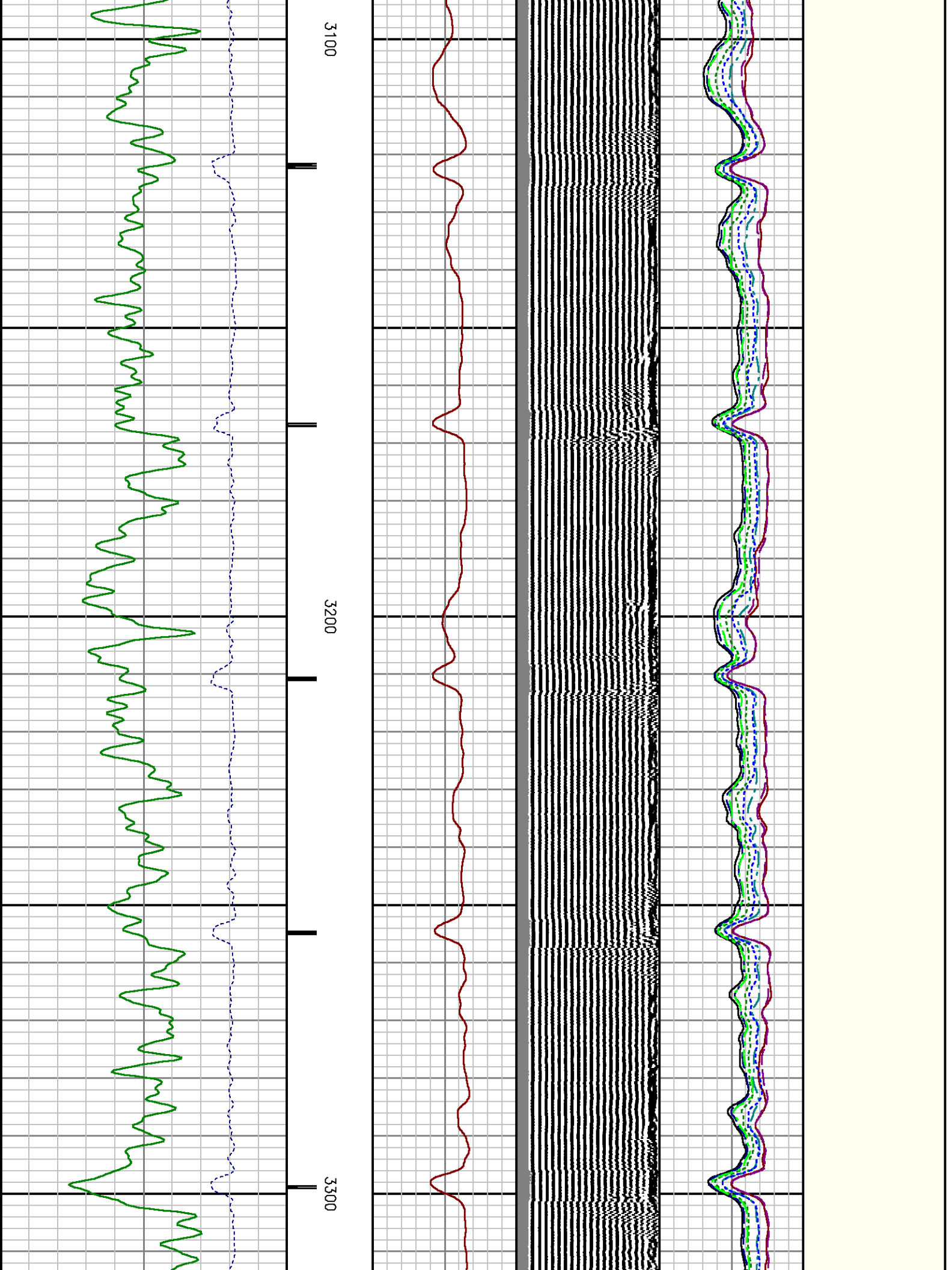


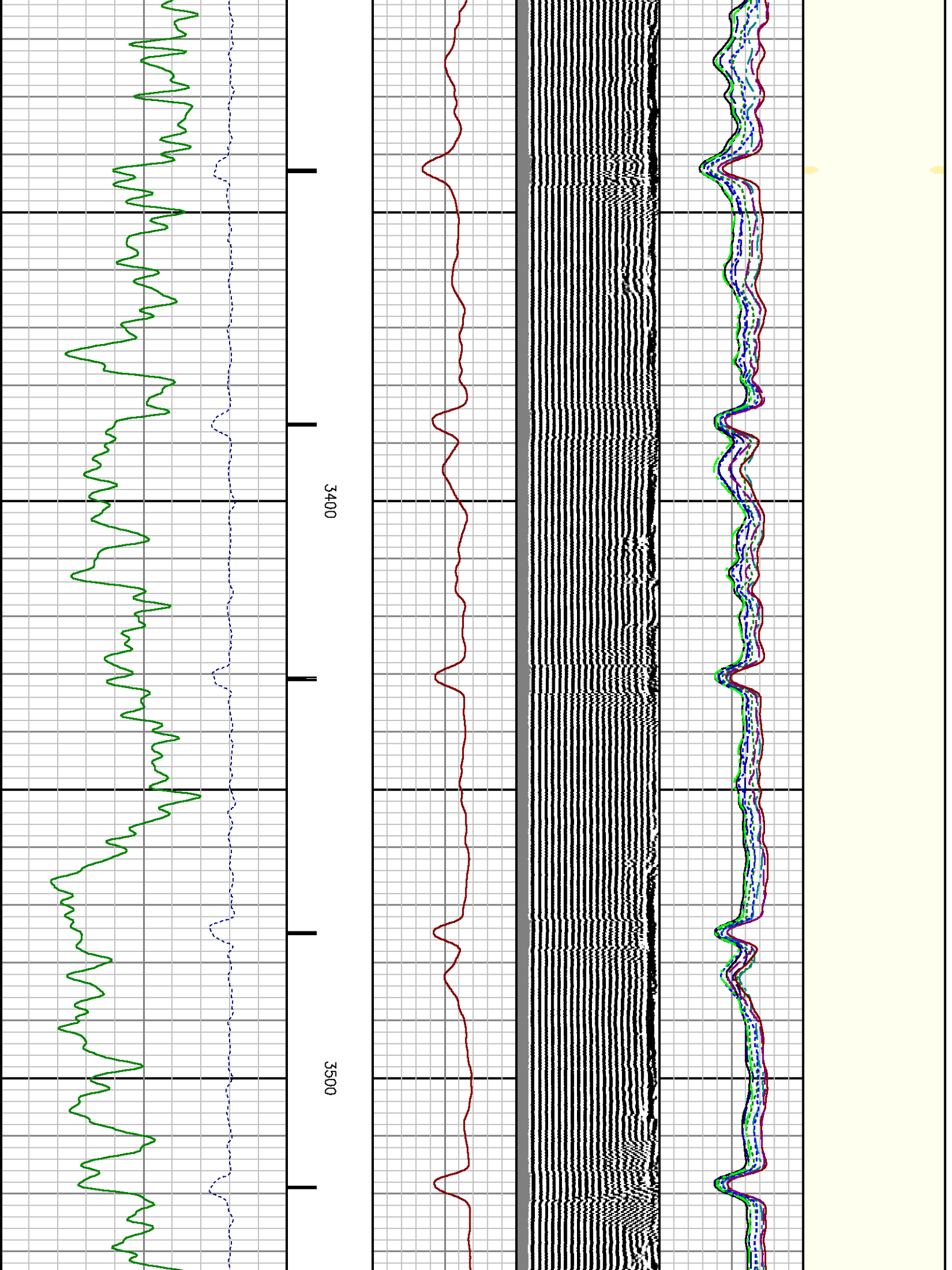


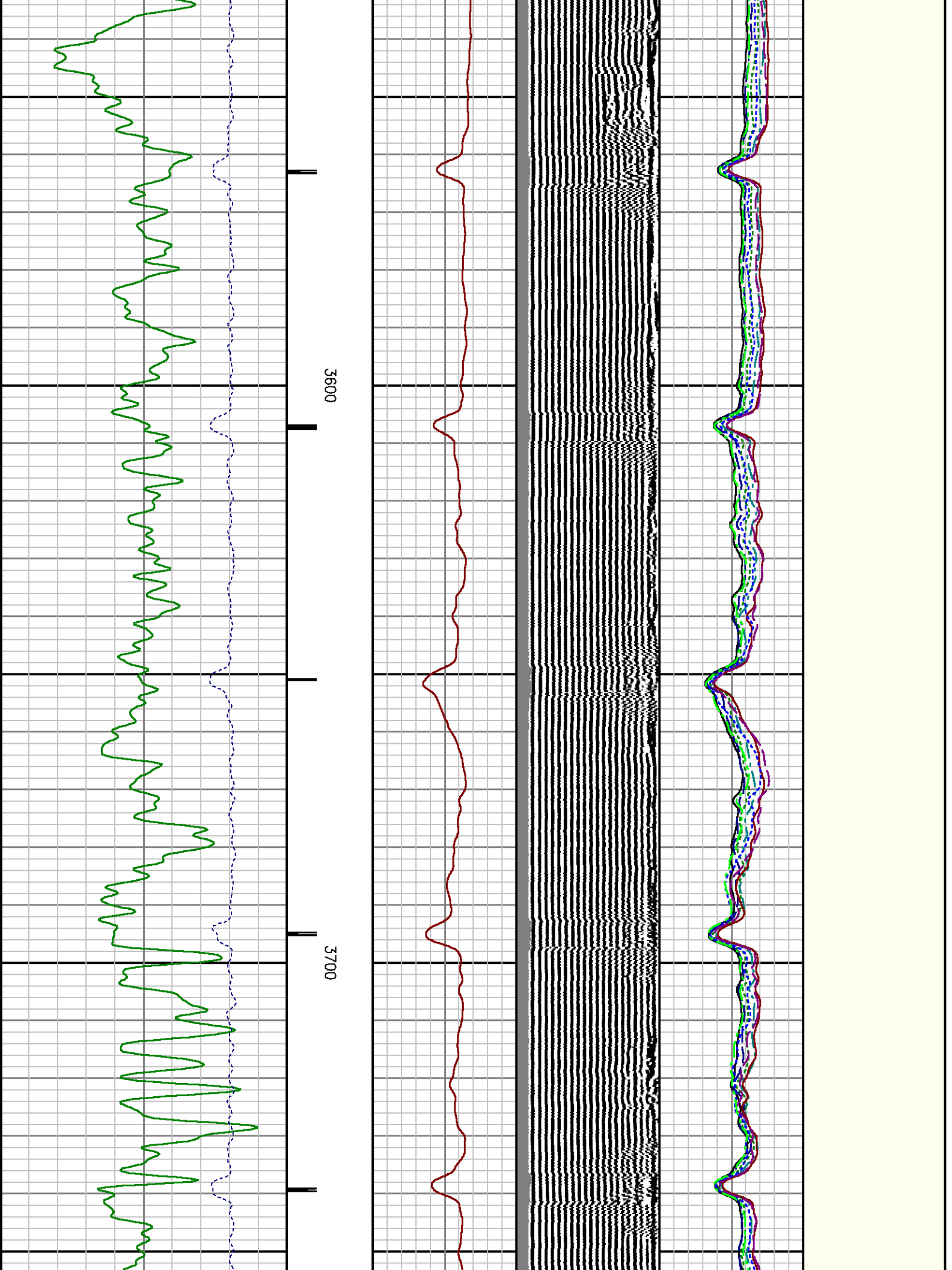


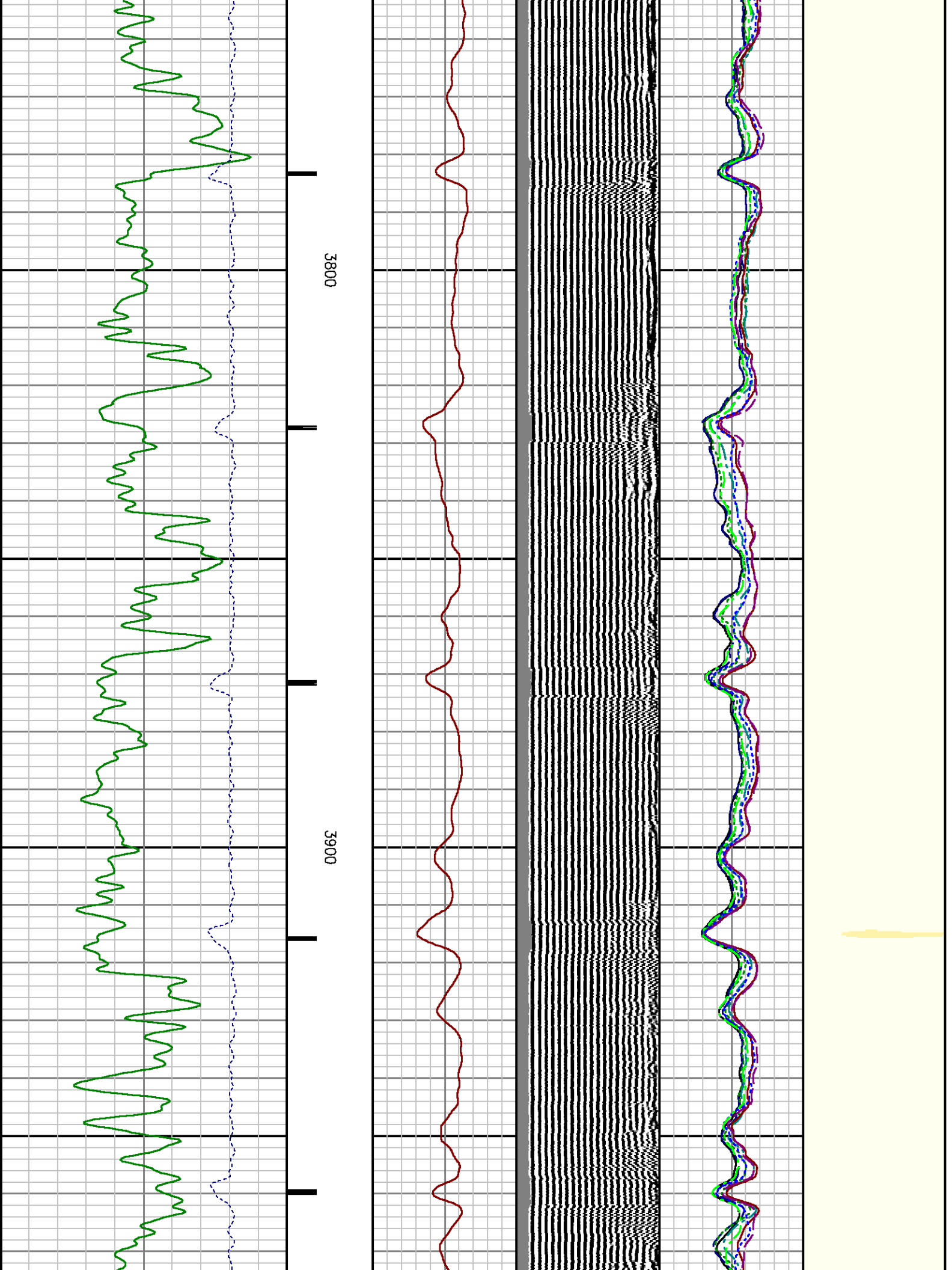


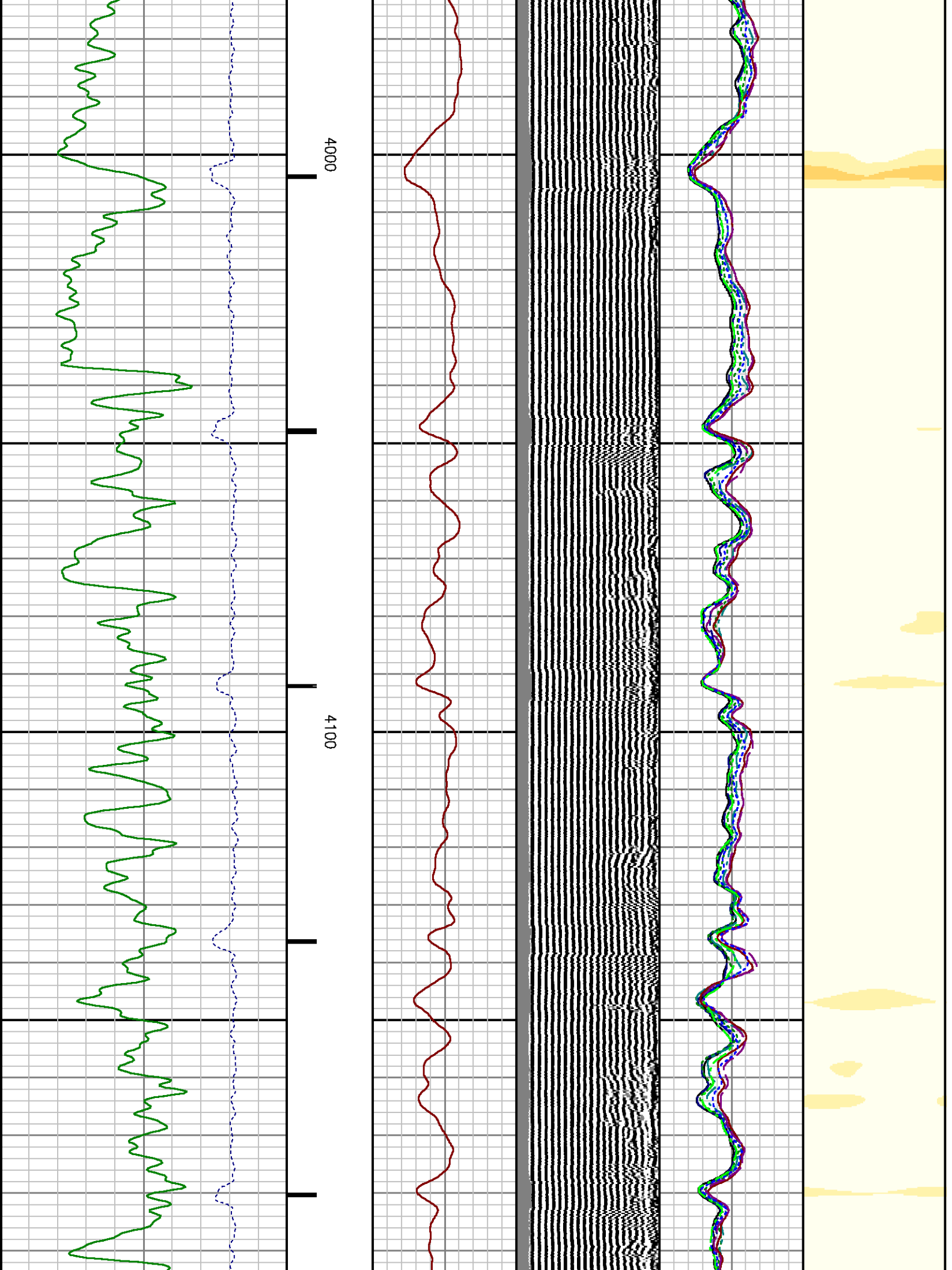


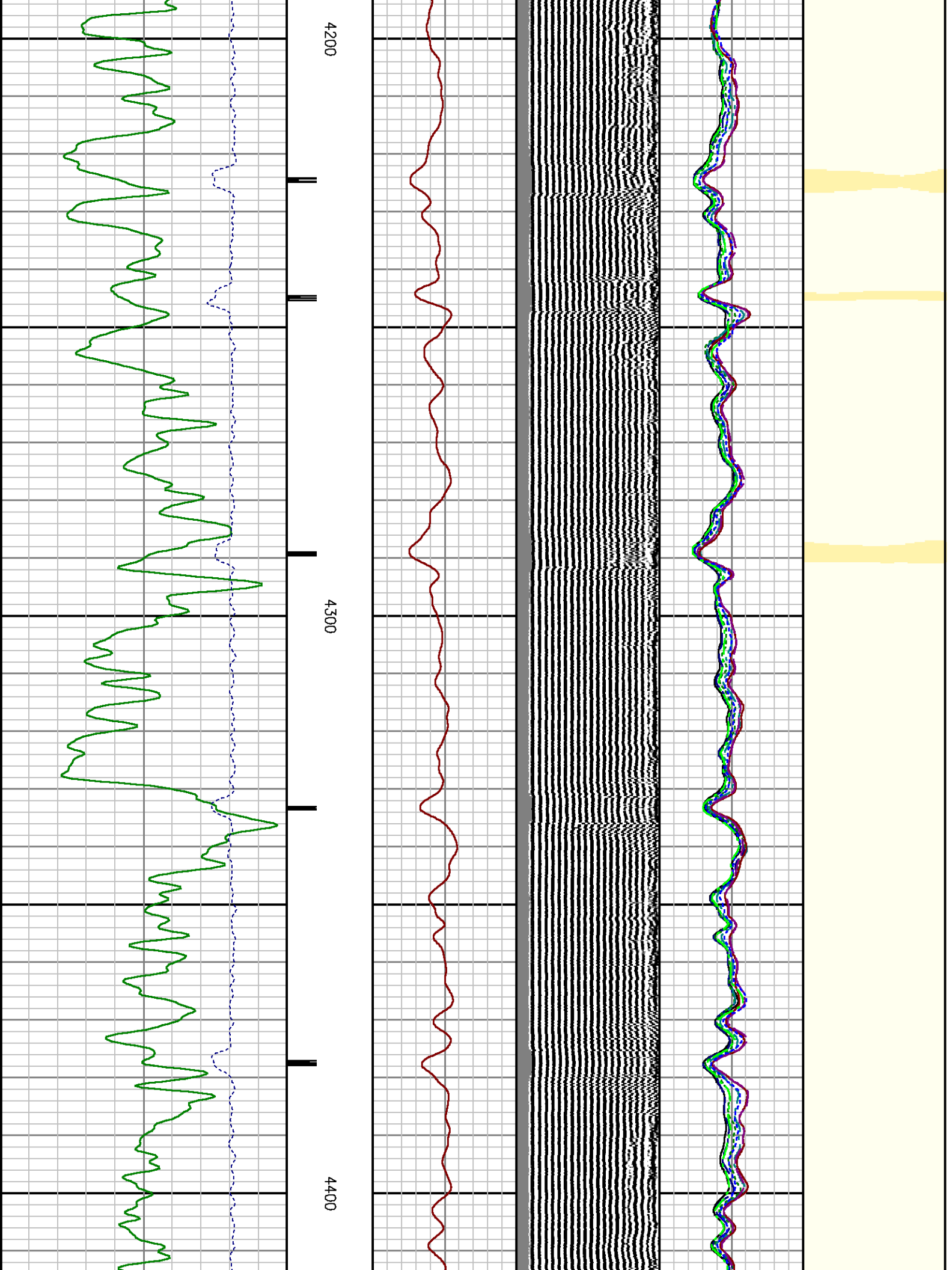


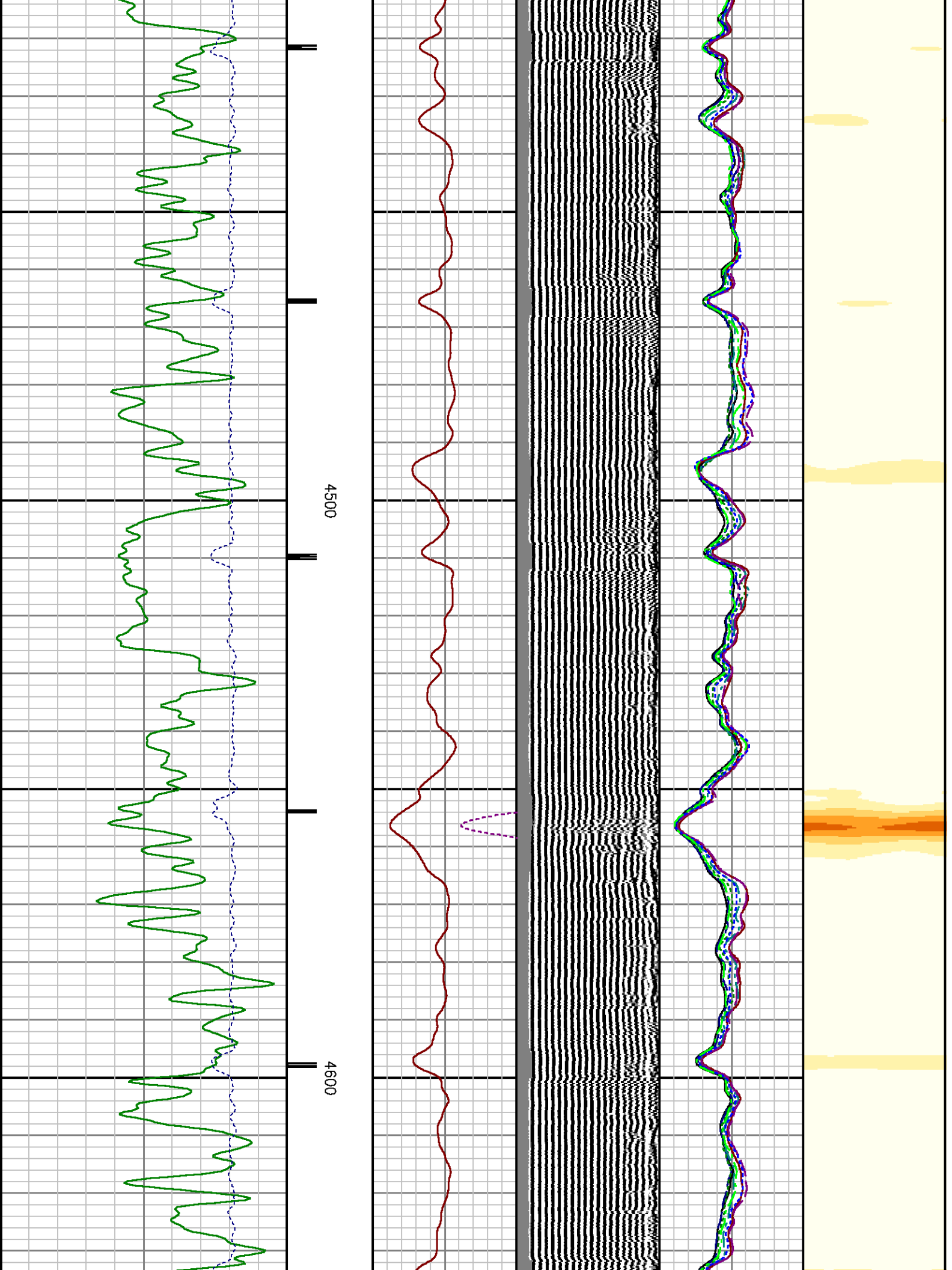


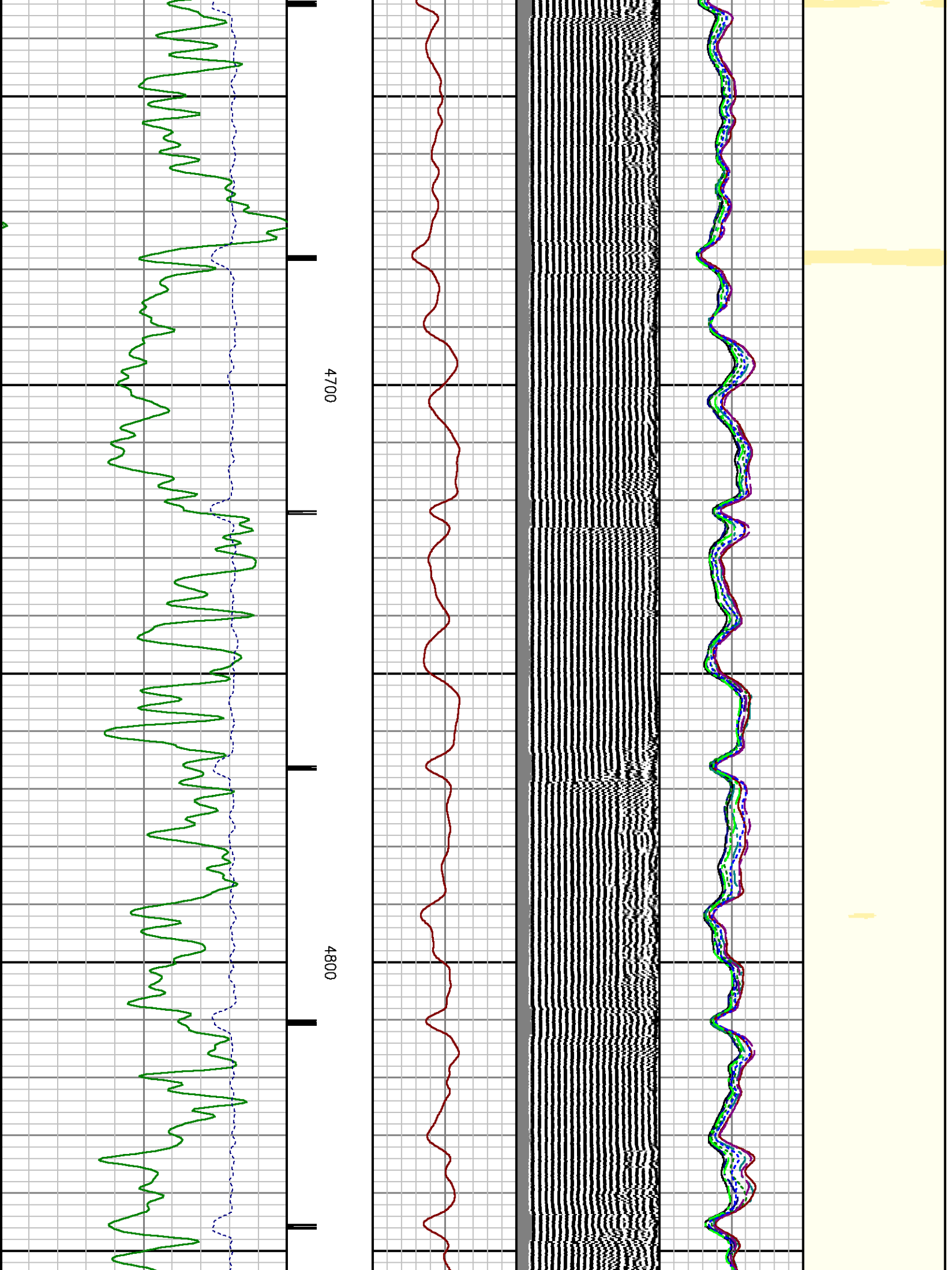


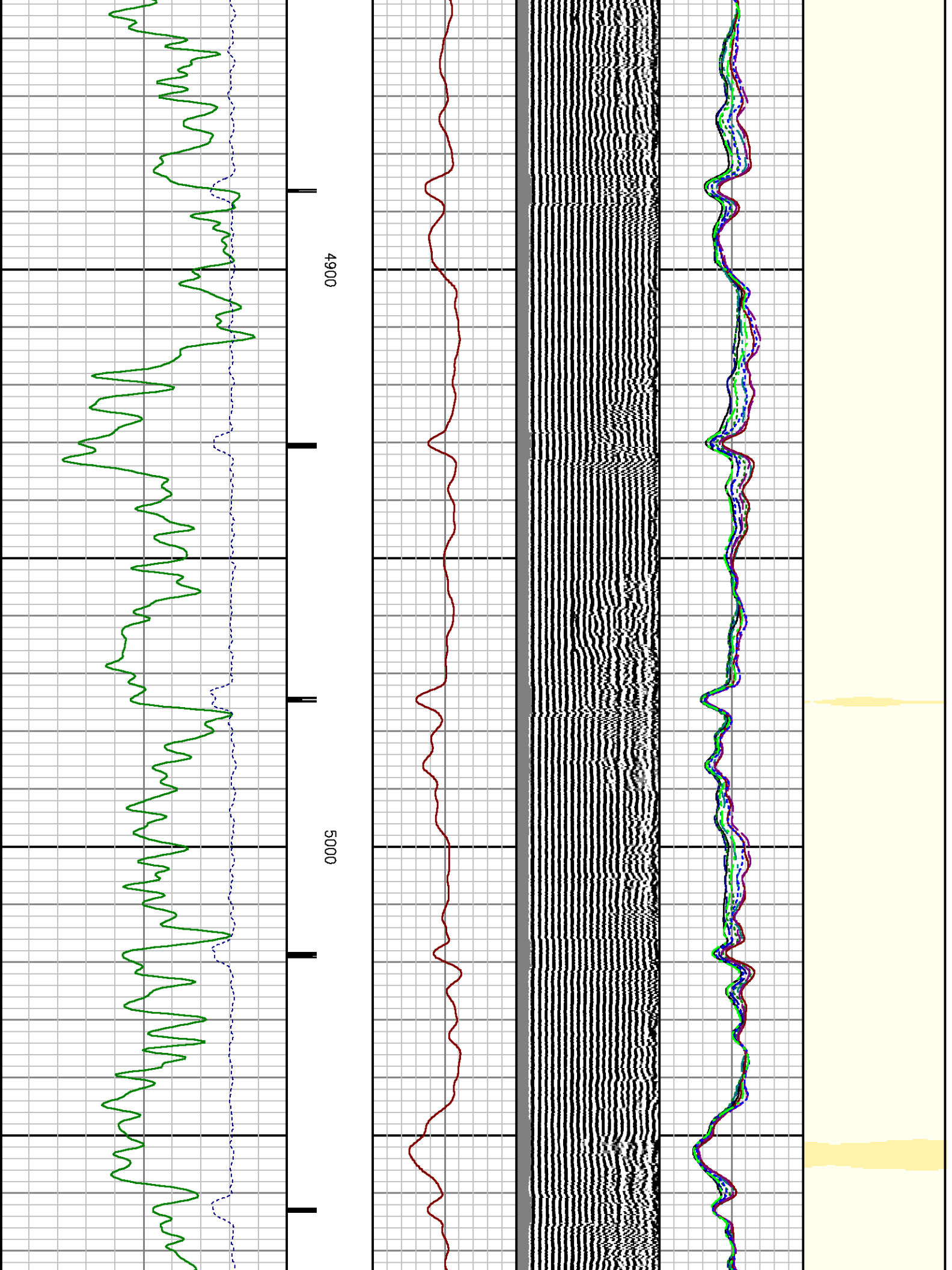


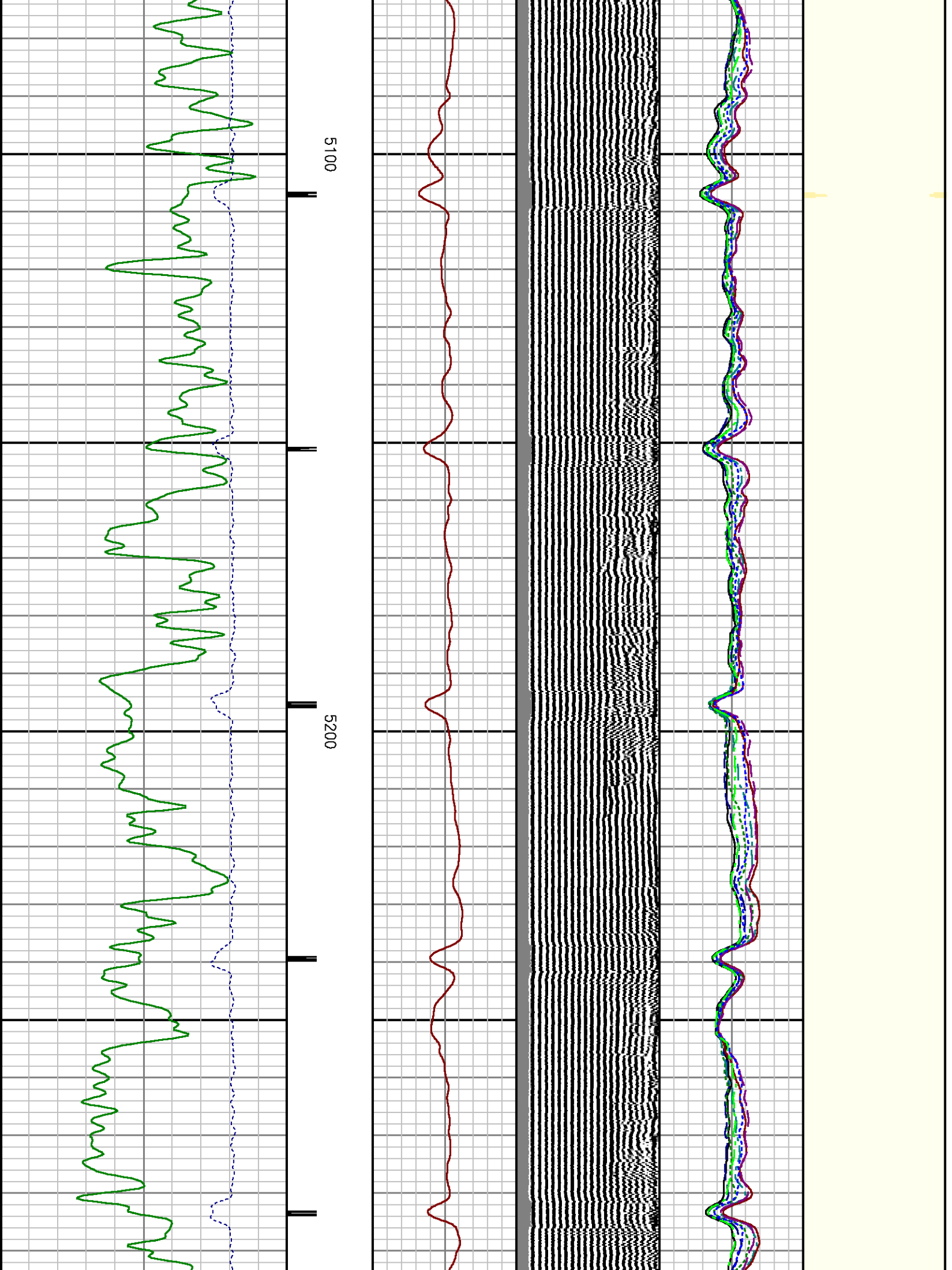


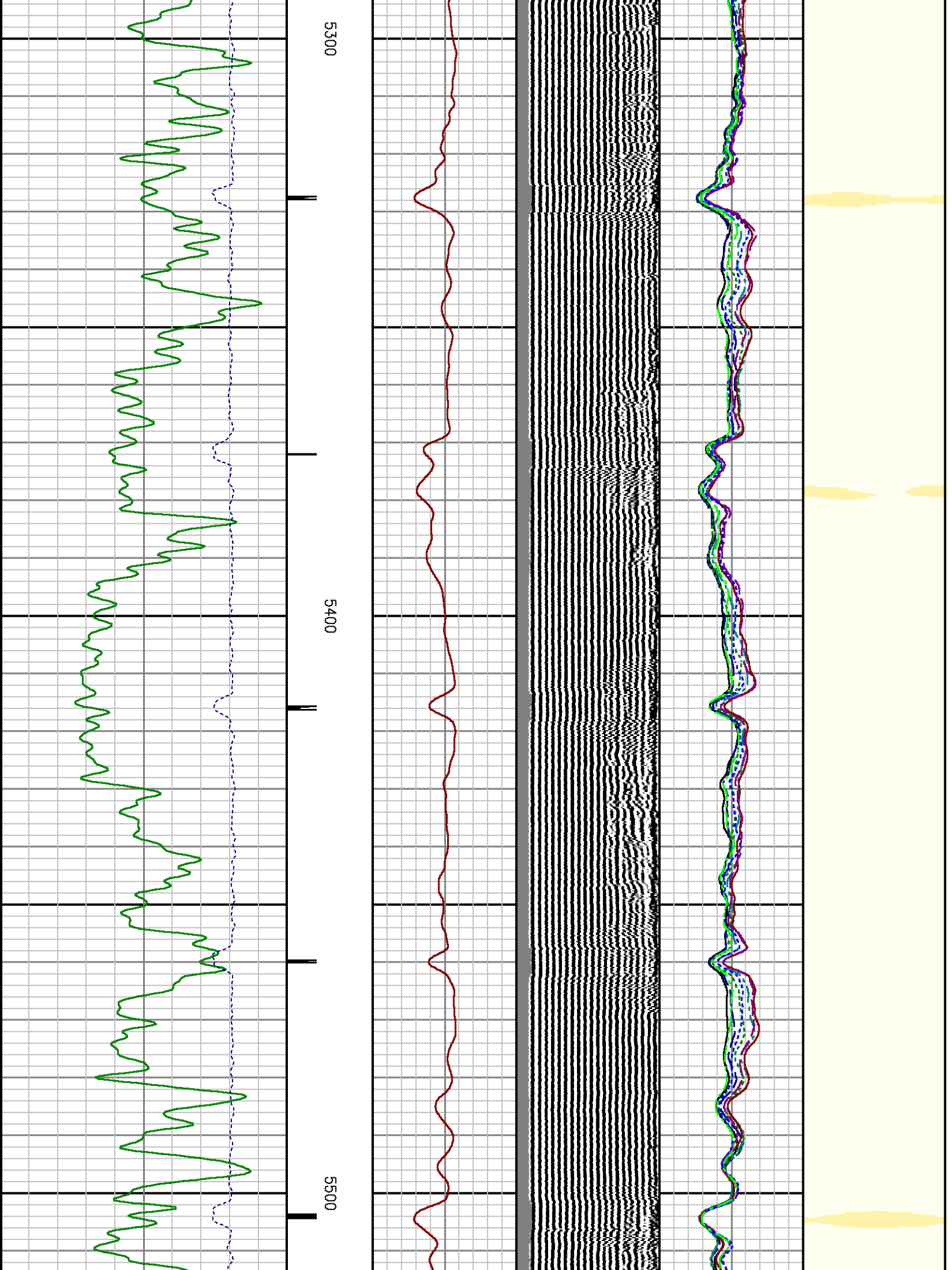


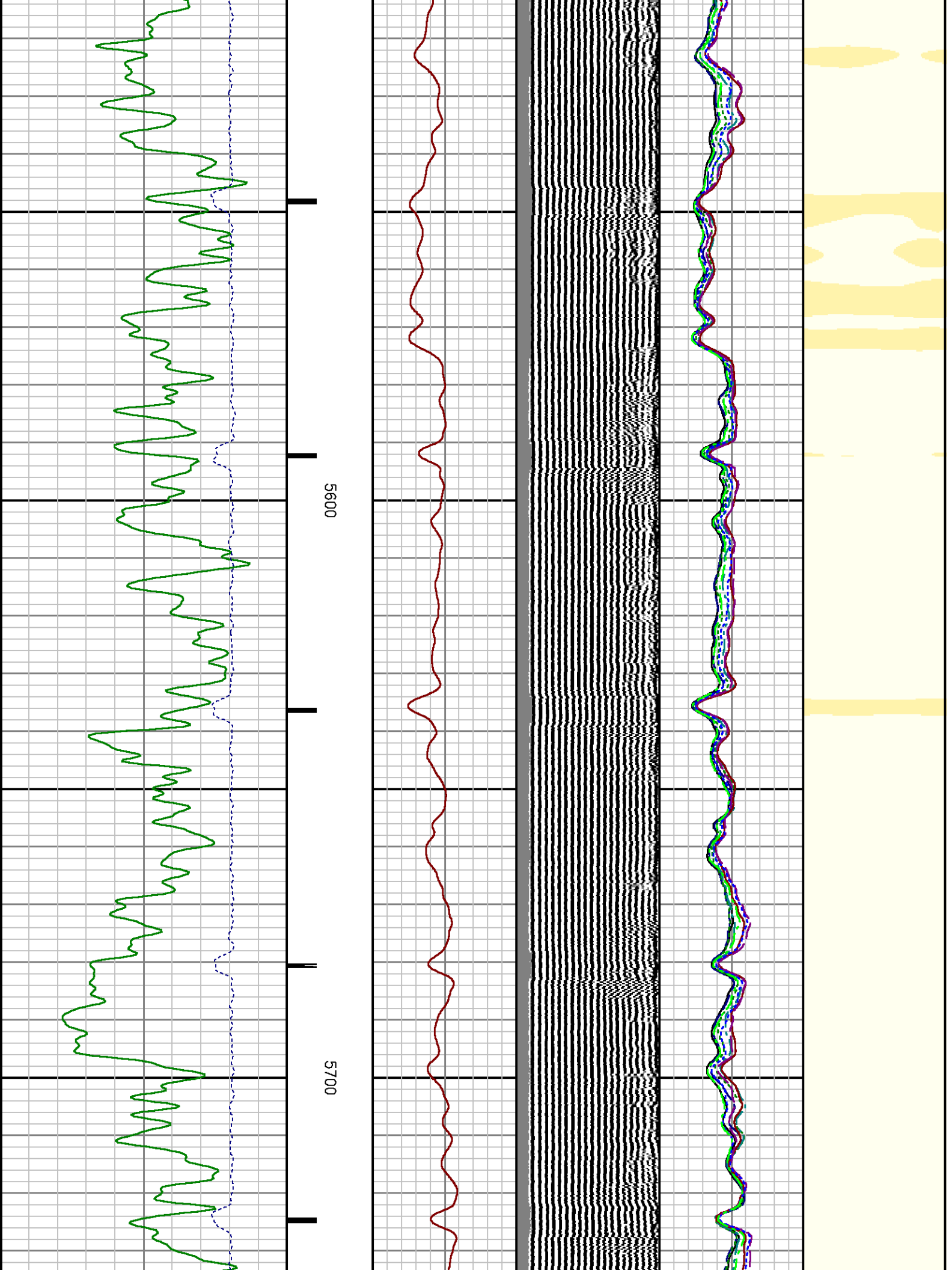


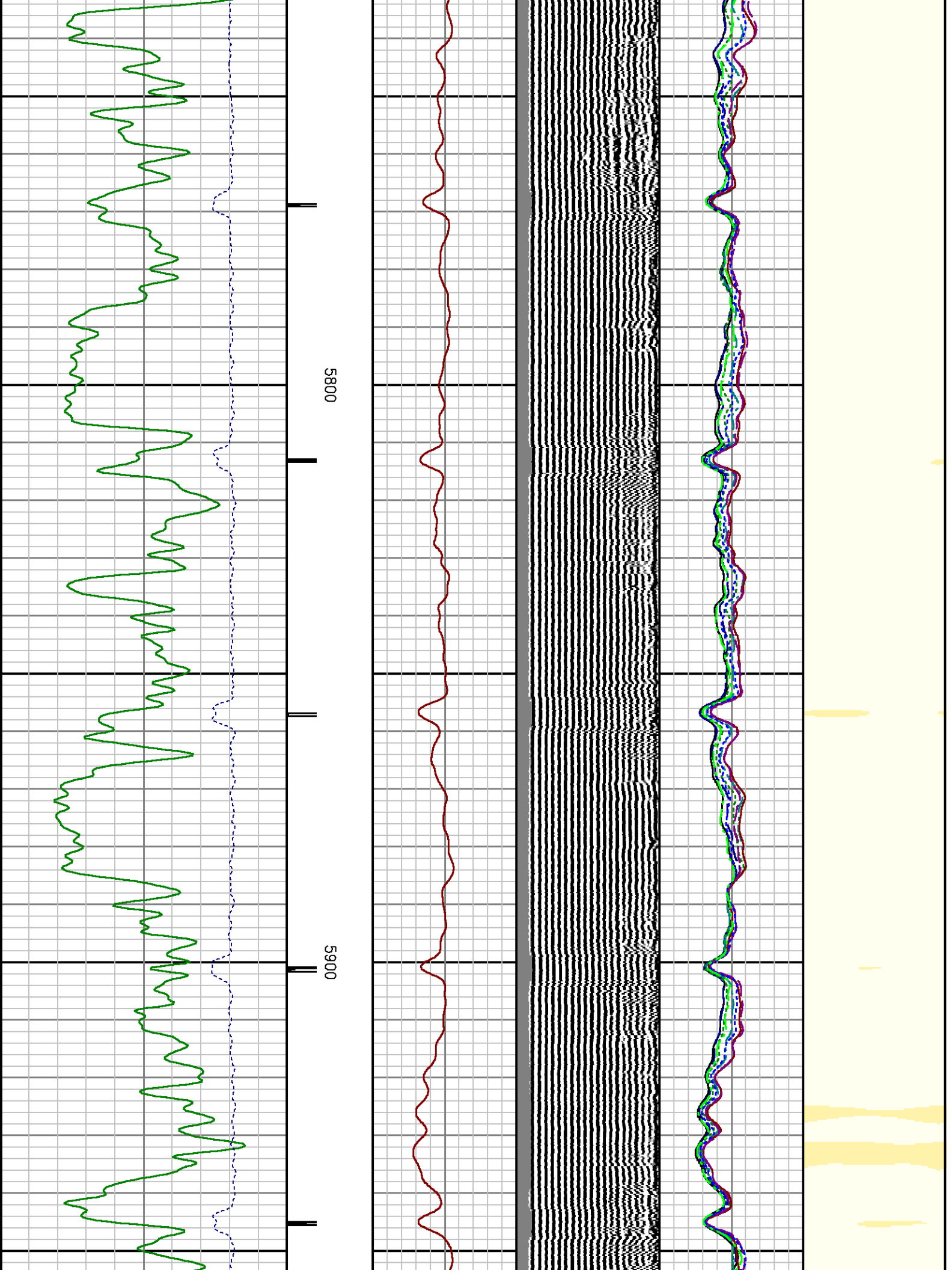


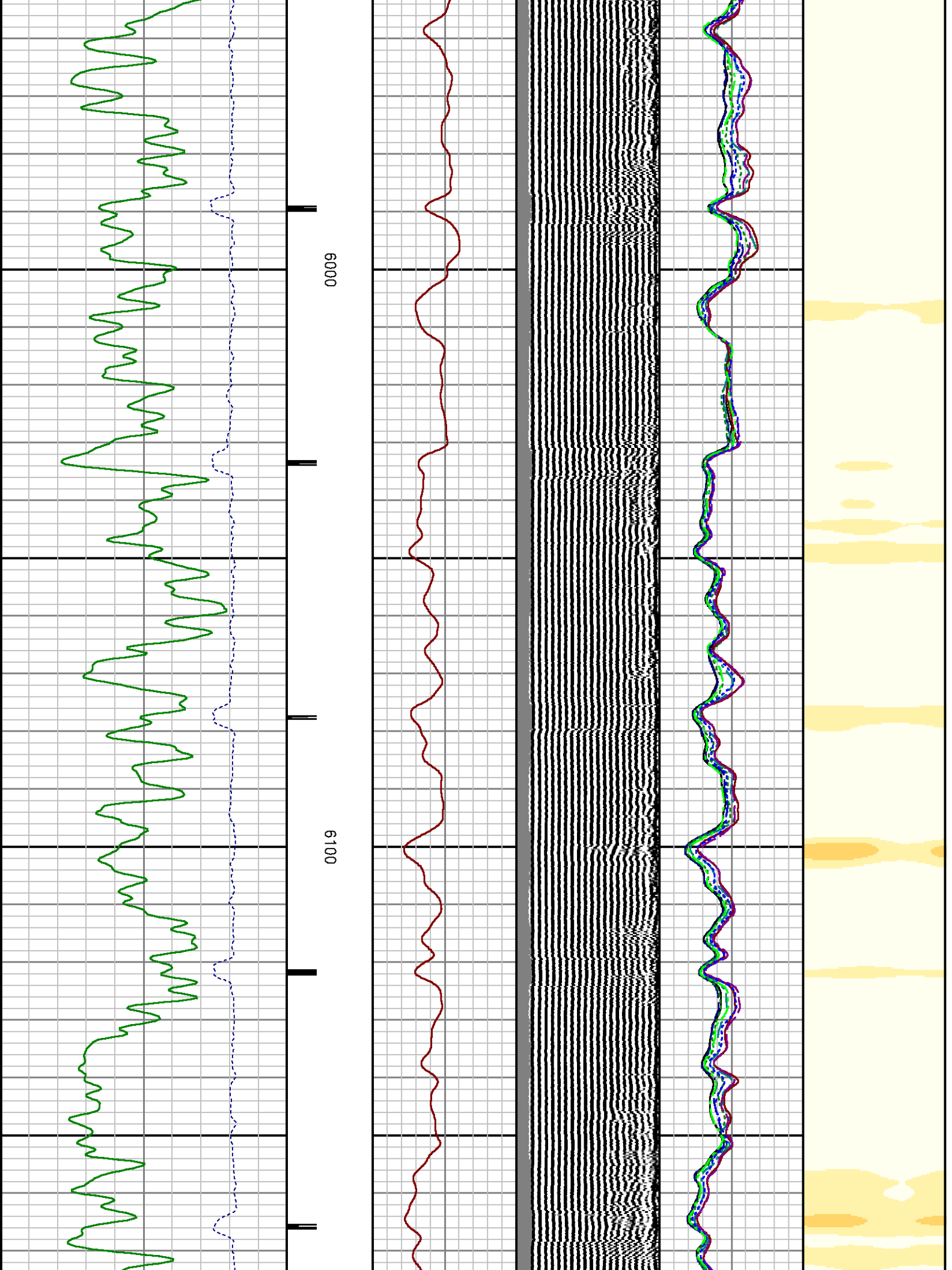


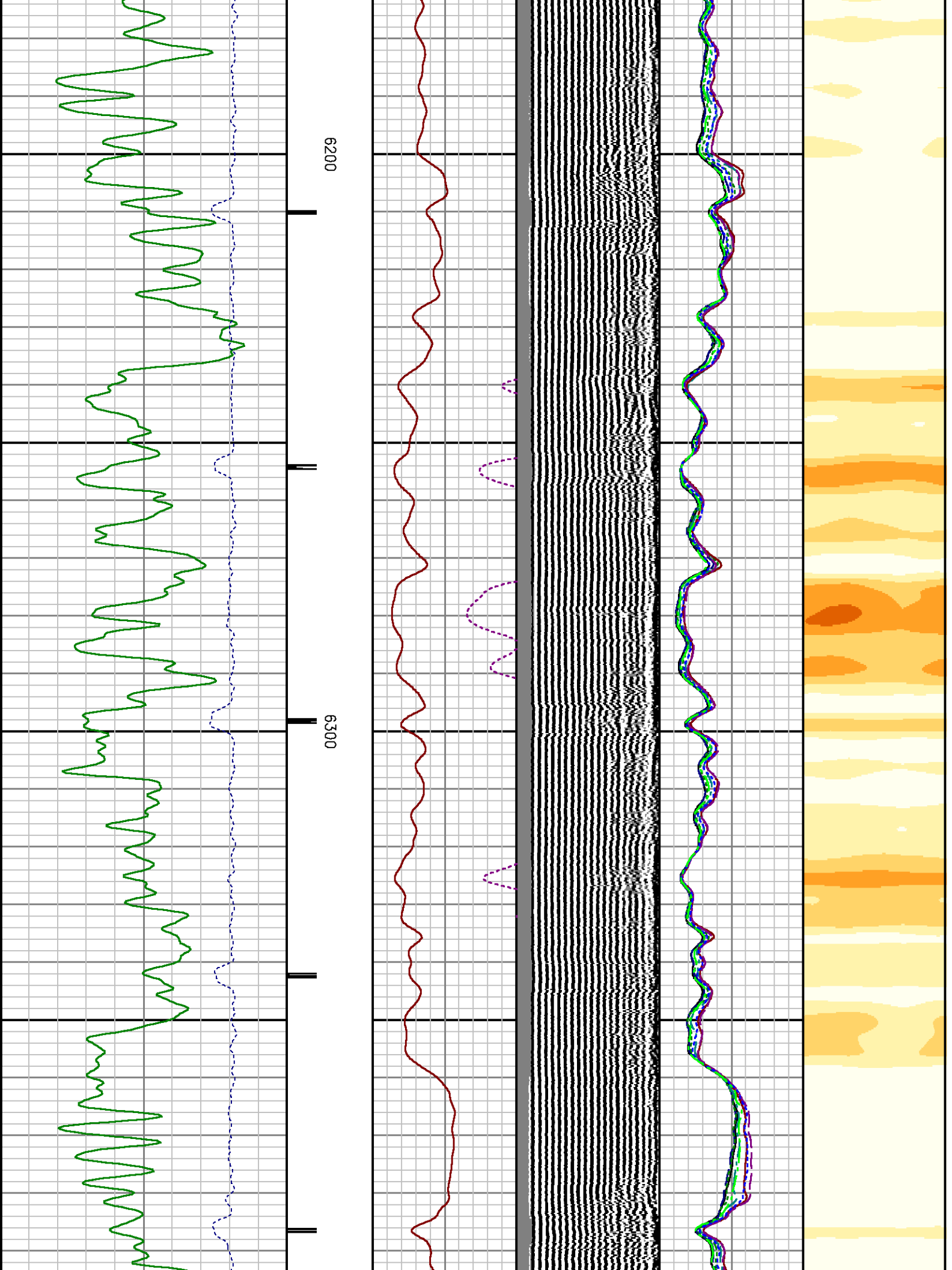


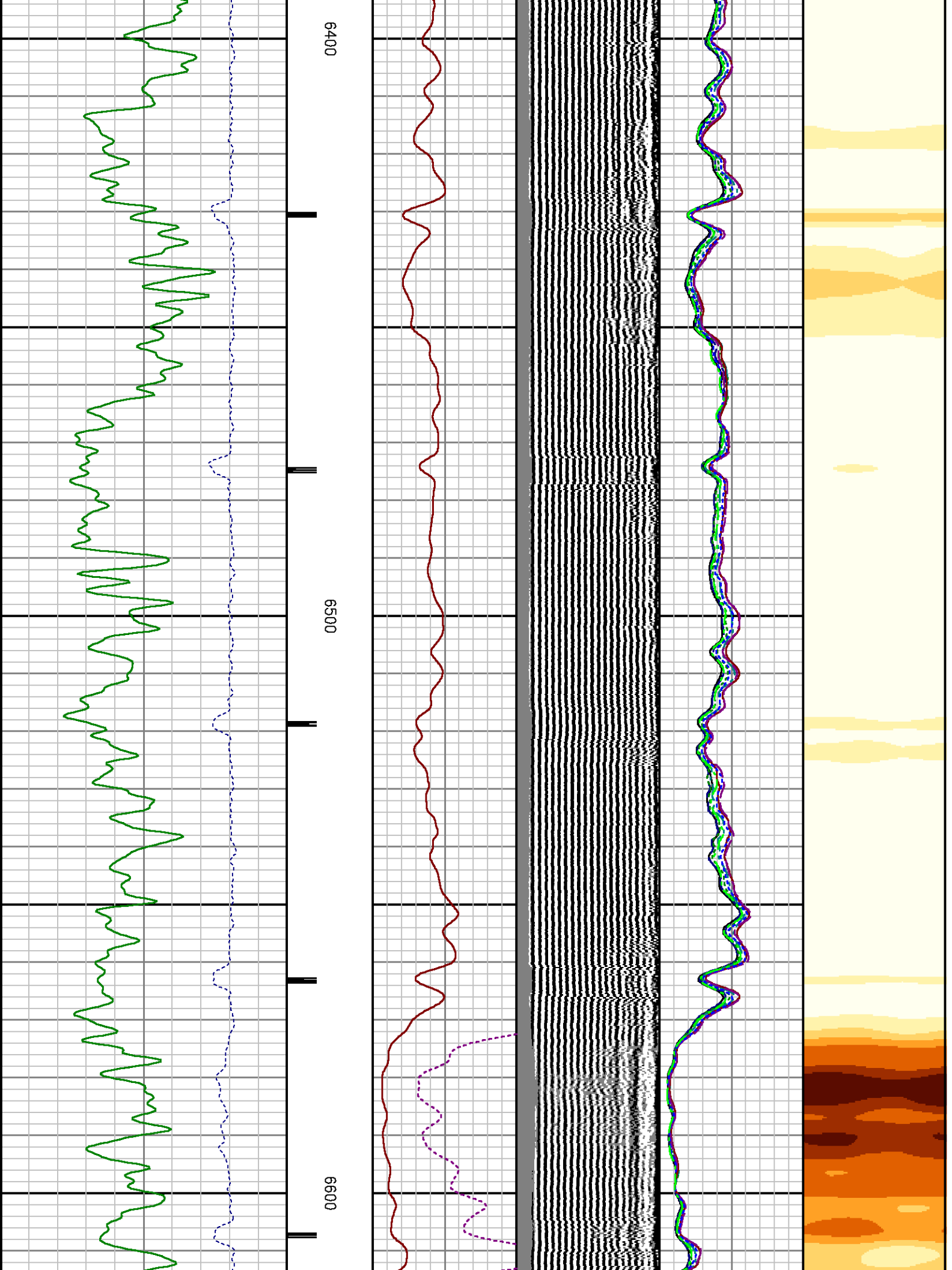


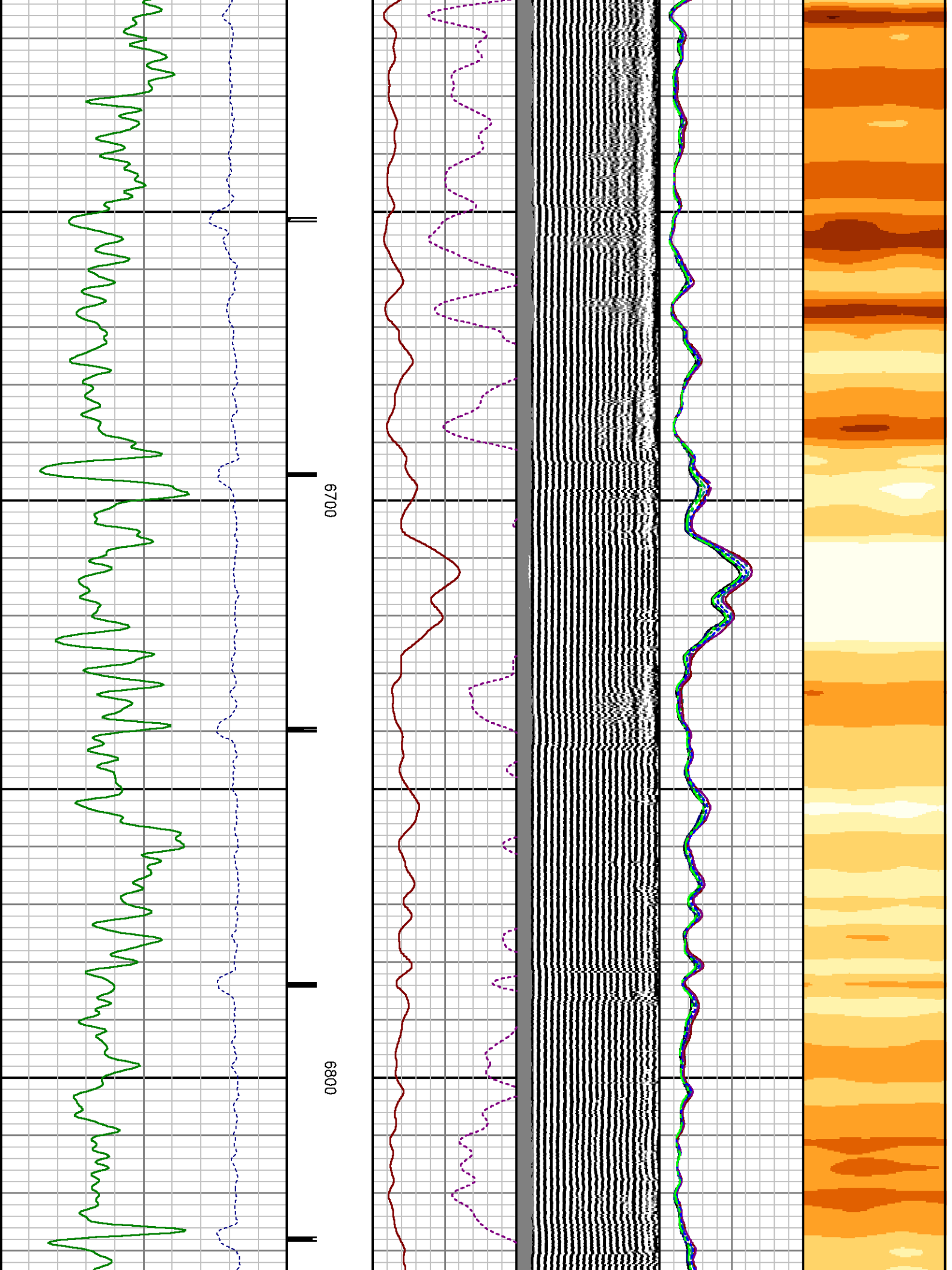


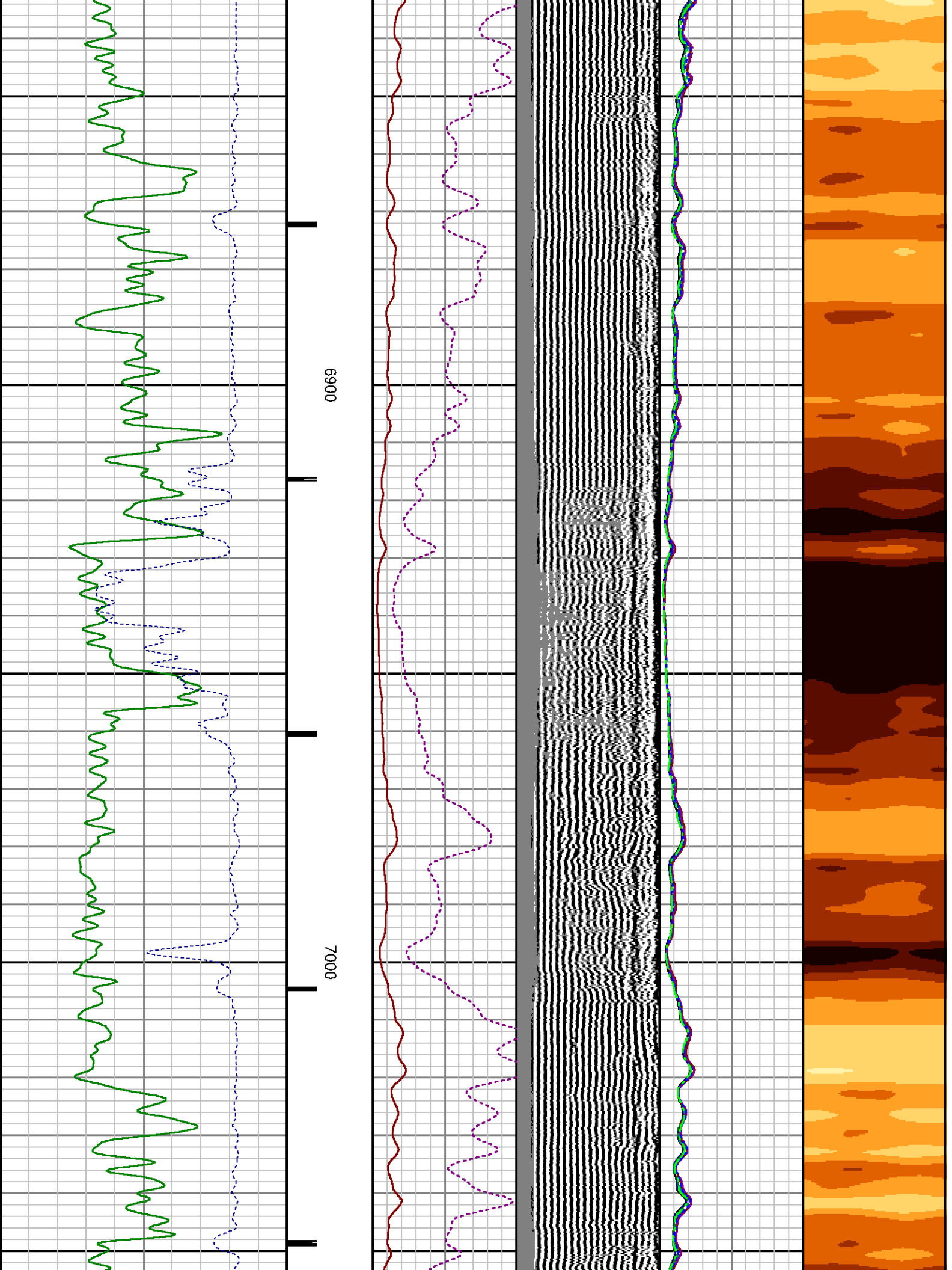


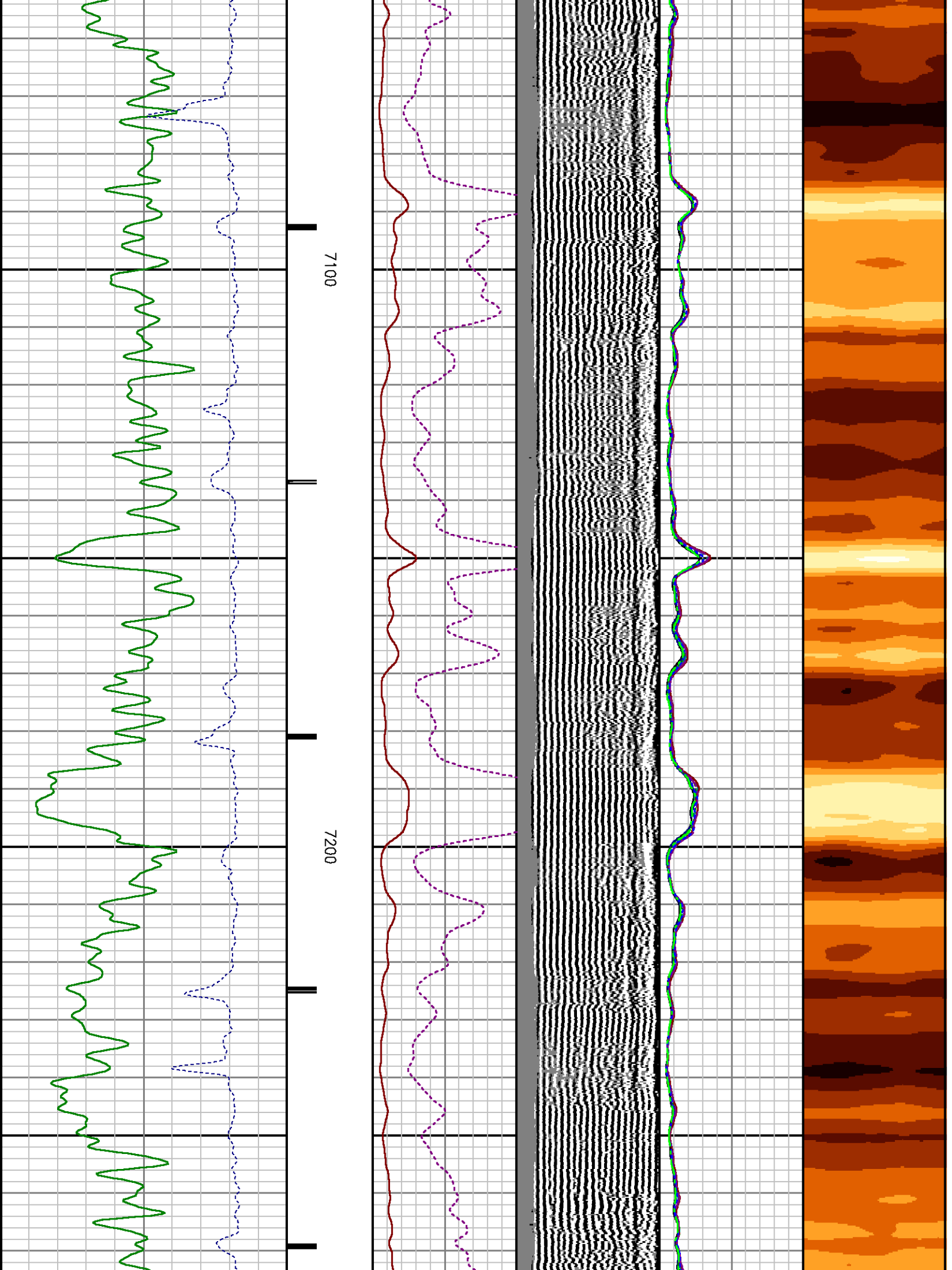


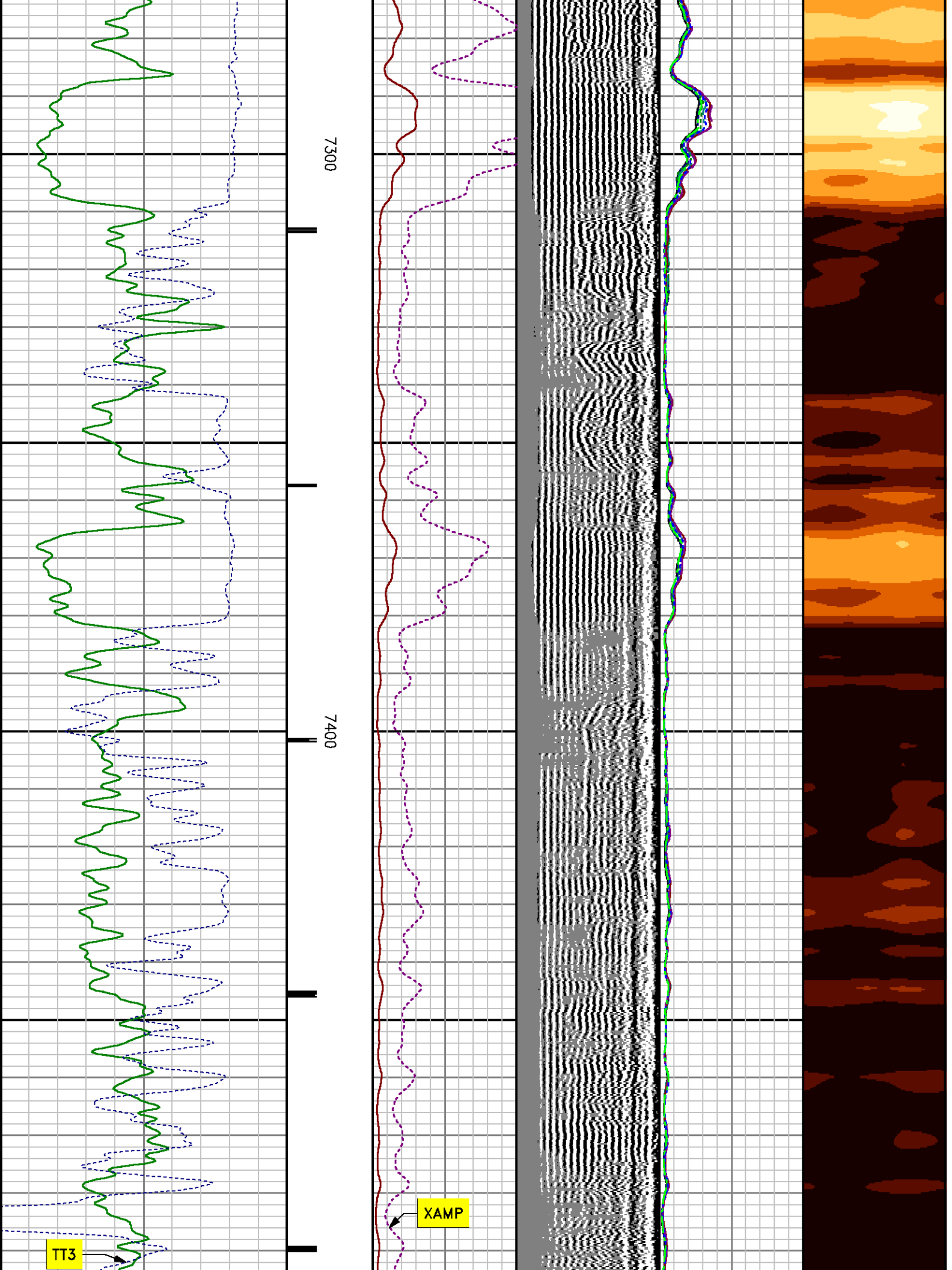


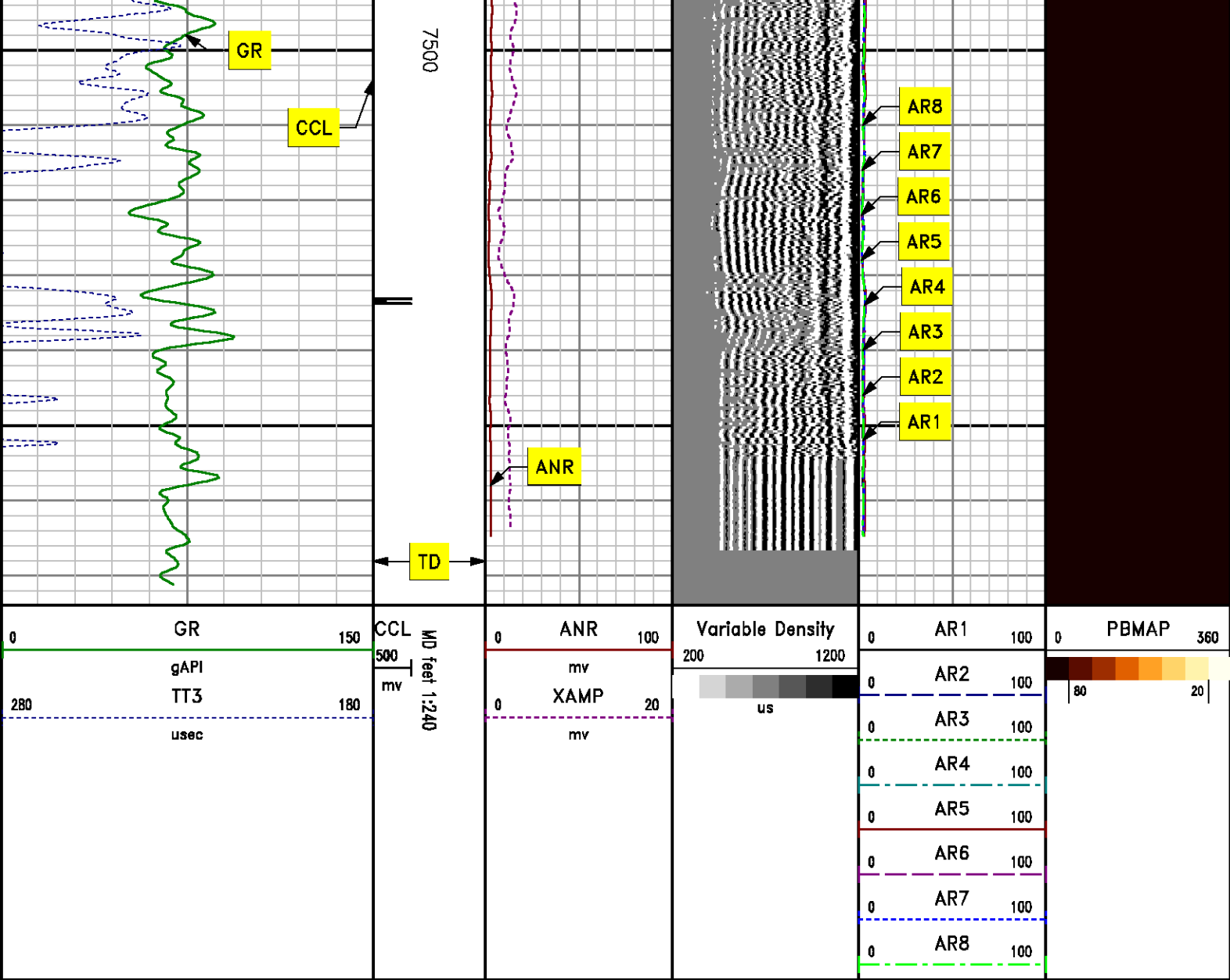






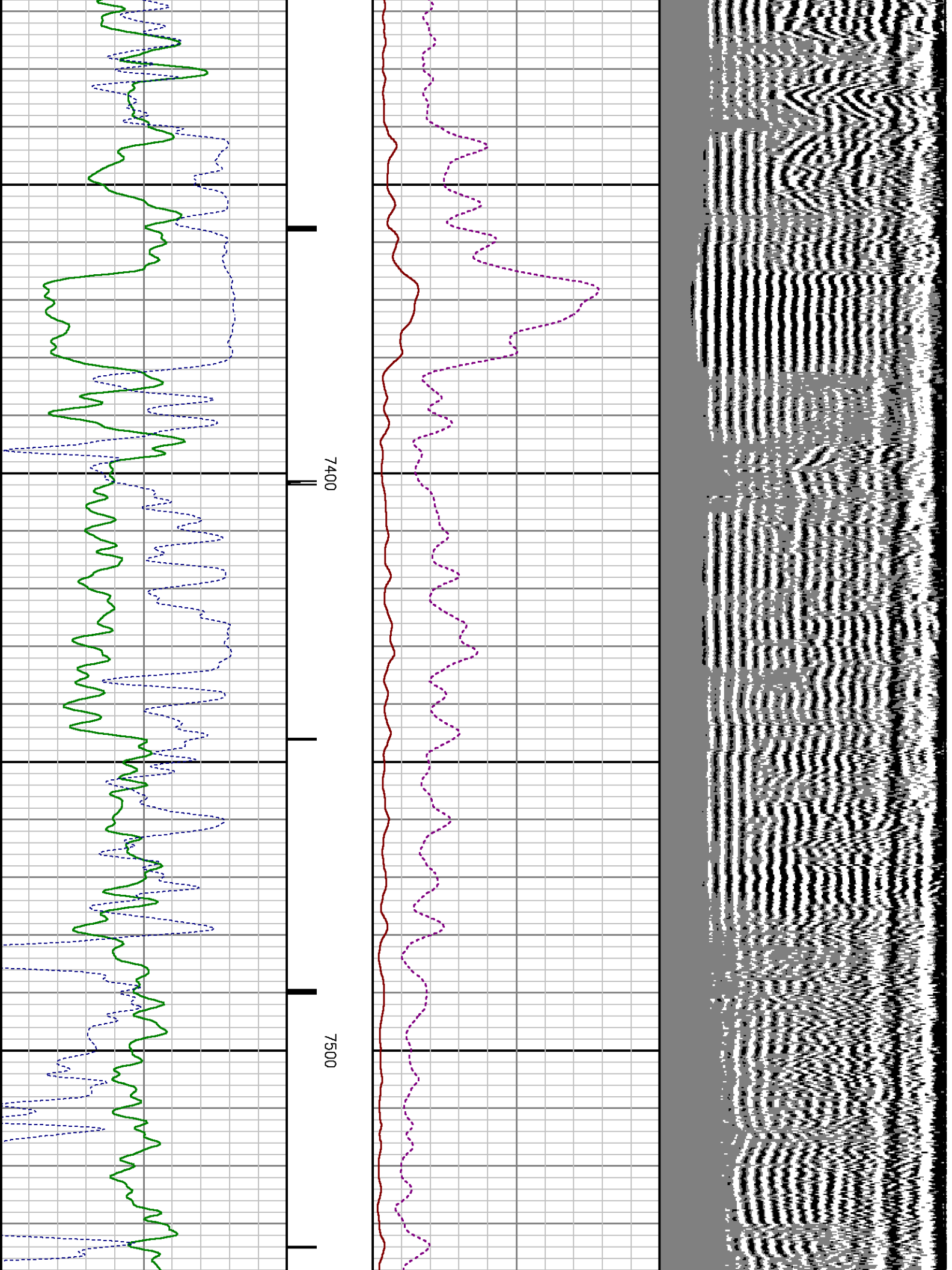


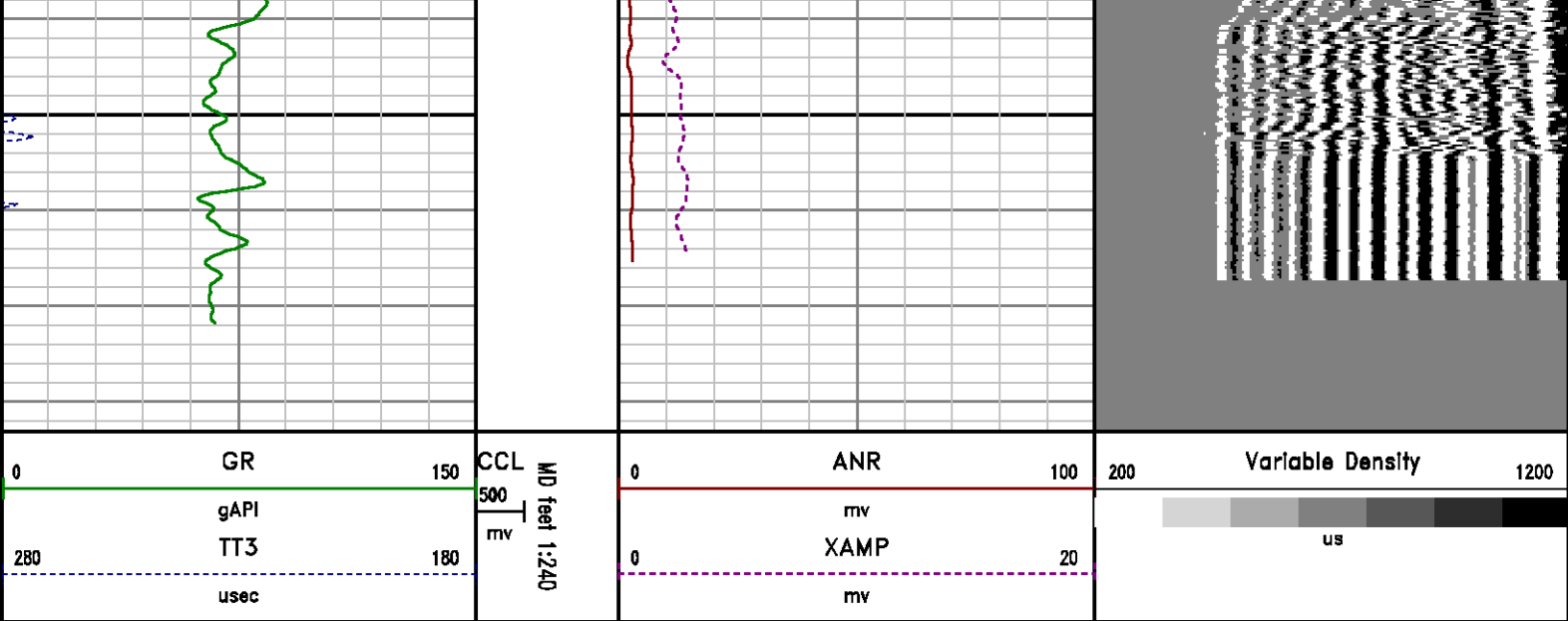




***REPEAT SECTION
0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	300.000	usec	7282.933	7583.090
RAL	Amp Gate Start Near	195.000	usec	7282.933	7583.090
RAL	Amp Gate Start Radial	195.000	usec	7282.933	7583.090





CALIBRATION SUMMARY

GAMMA RAY

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

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Aug 10 14:02:48 2012 TOOL SERIES: 2459XA ASSET: 456 SEQ: A

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	51.87	318.36	0.694	36.01	221.01	185.00

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

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Fri Aug 10 14:07:44 2012 TOOL SERIES: 2459XA ASSET: 456 SEQ: A

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	53.73	325.11	0.694	37.30	225.70	188.39

RALSHP

Shop Calibration: C:\case\calver\RALSHP\452S1_shp.cal

DATE/TIME PERFORMED: Sat Sep 01 10:45:30 2012 TOOL SERIES: 1426XA ASSET: 452 SEQ: S1

Tool Delay [usec] Tank OD Tank Wt Tank ID
In lbm/ft 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	218	216	30	166	25	-0.227	100.00	0.16
3 Ft. Receiver	216	216	30	157	25	0.594	100.00	0.15
5 Ft. Receiver	325	324	30	251	25	-0.345	150.00	0.17
Radial #1	218	216	30	156	25	-0.664	100.00	0.16
Radial #2	217	216	30	156	25	-0.356	100.00	0.16
Radial #3	216	216	30	156	25	0.278	100.00	0.15
Radial #4	215	216	30	156	25	0.480	100.00	0.15
Radial #5	214	216	30	156	25	-0.104	100.00	0.15
Radial #6	215	216	30	156	25	-0.099	100.00	0.15
Radial #7	216	216	30	156	25	-0.176	100.00	0.15
Radial #8	218	216	30	156	25	0.169	100.00	0.15

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\452S1 fld.cal

DATE/TIME PERFORMED: Sat Sep 01 10:47:13 2012 TOOL SERIES: 1426XA ASSET: 452 SEQ: S1

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	166	25	-0.027	0.000	1.00	100.000
3 Ft. Receiver	200	30	1.201			
5 Ft. Receiver	317	30	2.415			
Radial #1	200	30	1.307			
Radial #2	200	30	1.395			
Radial #3	200	30	1.386			
Radial #4	200	30	1.283			
Radial #5	200	30	1.129			
Radial #6	200	30	1.307			
Radial #7	200	30	1.399			
Radial #8	200	30	1.160			

GAMMA RAY #2

Calibration File: C:\case\calver\GR\544S1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Sep 01 13:03:19 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: S1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	66.18	306.44	0.770	50.96	235.96	185.00

Verification Files: C:\case\calver\GR\544S1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Sat Sep 01 13:04:36 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: S1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	68.04	302.44	0.770	52.39	232.88	180.48

TOOL DIAGRAM

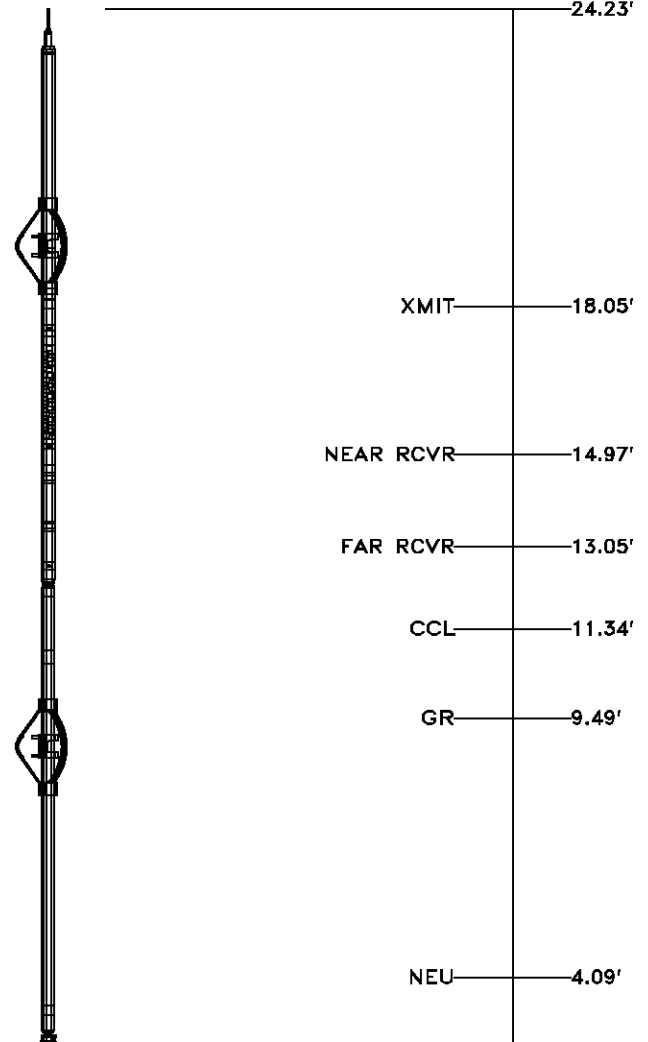
OTA SHORT CABLE HEAD

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



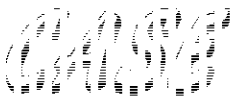
CENTRALIZER

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**

Company	WPX ENERGY		
Well	JOLLEY KP 14-9		
Field	KOKOPELLI		
County	GARFIELD	State	COLORADO

File No:	CH060325
API No:	05045180690000

Location
SHL: 580' FNL 695' FEL SECTION 16
BHL: 1176' FSL 667' FWL SECTION 9
SEC 9 TWP 6S RGE 91W

Elevations
KB 6658 ft
DF NA
GL 6632 ft

9 6S 91W
KP 11-16 pad
NABORS 574