



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH071348	Company Well Field County	WPX ENERGY YOUBERG RMF 333-23 RULISON GARFIELD	State COLORADO
API No: 05045182410000			
23 GS 94W RMF 33-23 MABORS SSD 577	Location SHL: 1348' FSL & 2318' FEL SEC:23 BHL: 1398' FSL & 1932' FEL SEC:23 SEC 23 TWP 6S RGE 94W	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 5501.5 ft K.B. 26 ft Above P. D. KELLY BUSHING	Elevations KB 5527.5 ft DF GL 5501.5 ft	

Date	25/APR/15	
Run	ONE	
Service Order	575112	
Depth Driller	8092 ft	
Depth Logger	8073 ft	
Bottom Logged Interval	8063 ft	
Top Logged Interval	26 ft	
Time Started	2:30	
Time Finished	5:30	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	35 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	231 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	W. KINSEL	9721
Witnessed By	MR. JEFF DUCY	GRAND JUNCTION

- 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	1105 ft
8.75 In	0 ft	8129 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	N/A	N/A	0 ft	1103 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	8092 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH THE TOP CCL MARK WITH KB LEVEL
AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 1 FOOT DOWN.
SHORT JOINT: 4836' - 4856'
BHT: 231 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENTRALIZED
1	1	GAMMA RAY/CCL	2459XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	usec	23.098	8086.000
RAL	Amp Gate Start Near	196.061	usec	23.098	8086.000
RAL	Amp Gate Start Radial	197.557	usec	23.098	8086.000
RAL	Amp Gate Width Far	25.000	usec	23.098	8086.000
RAL	Amp Gate Width Near	25.000	usec	23.098	8086.000
RAL	Amp Gate Width Radial	25.000	usec	23.098	8086.000
RAL	casing od	4.500	inches	23.098	8086.000
RAL	casing wt	11.600	lbm/ft	23.098	8086.000
RAL	FB Start Far	291.900	usec	23.098	8086.000
RAL	FB Start Near	175.391	usec	23.098	8086.000
RAL	FB Start Radial	175.391	usec	23.098	8086.000
RAL	FB Thresh Far	10.000	mv	23.098	8086.000
RAL	FB Thresh Near	4.000	mv	23.098	8086.000
RAL	FB Thresh Radial	4.000	mv	23.098	8086.000
RAL	Fluid Travel Time	200.000	usec/ft	23.098	8085.941

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
		ACAL	ANR	AR1	AR2	AR3	AR4
1426XA	-11.000	AR5	AR6	AR7	AR8	CHV	FPR2

1426XA -10.040
1355XA -5.620
1355XA -1.500
1355XA 0.000

FPR3 FPR5 TT3 TTR1 TTR2 TTR3
TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
AFAR SIG TT5
CCL
GR
TEMP

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

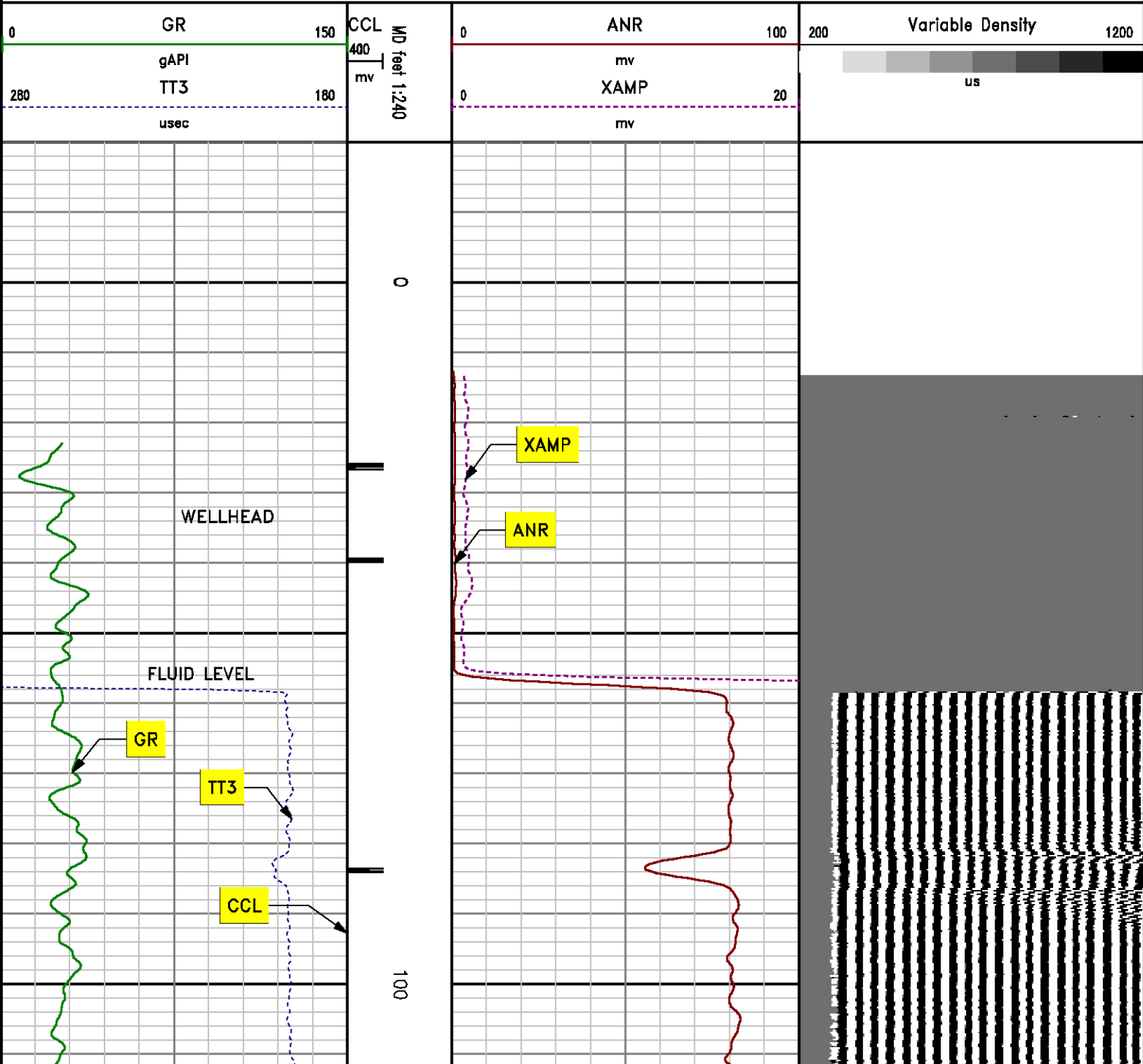
Well : YOUBERG RWF 333-23

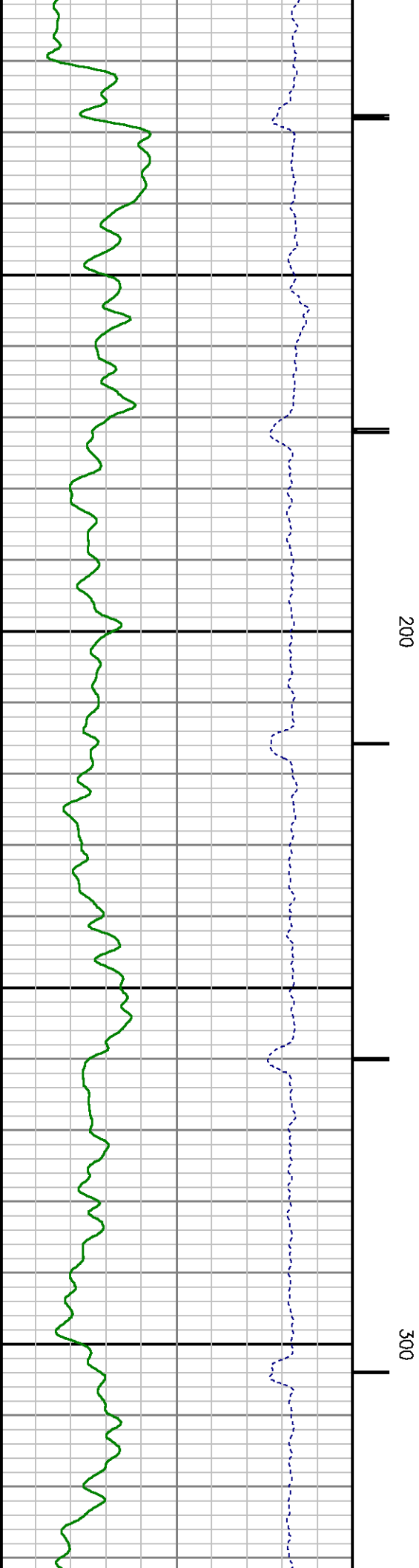
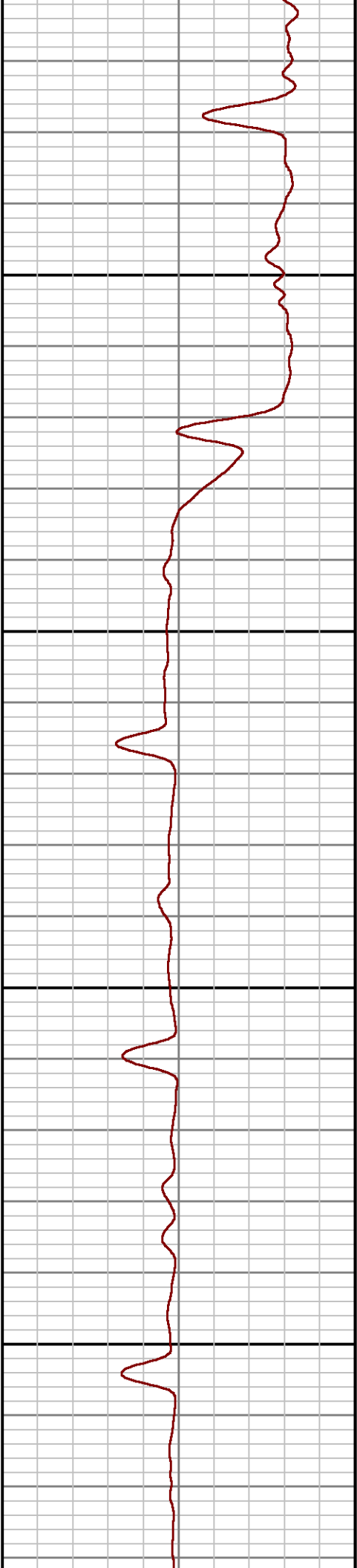
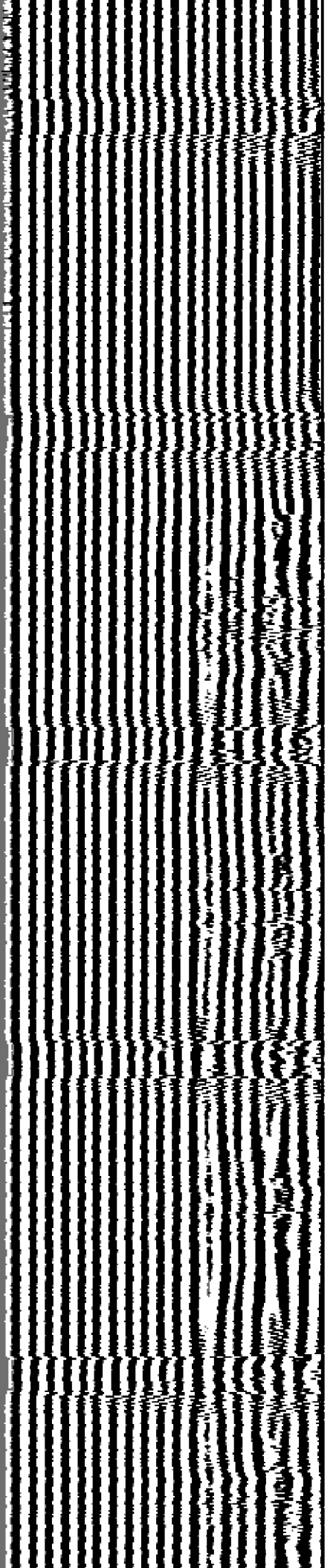
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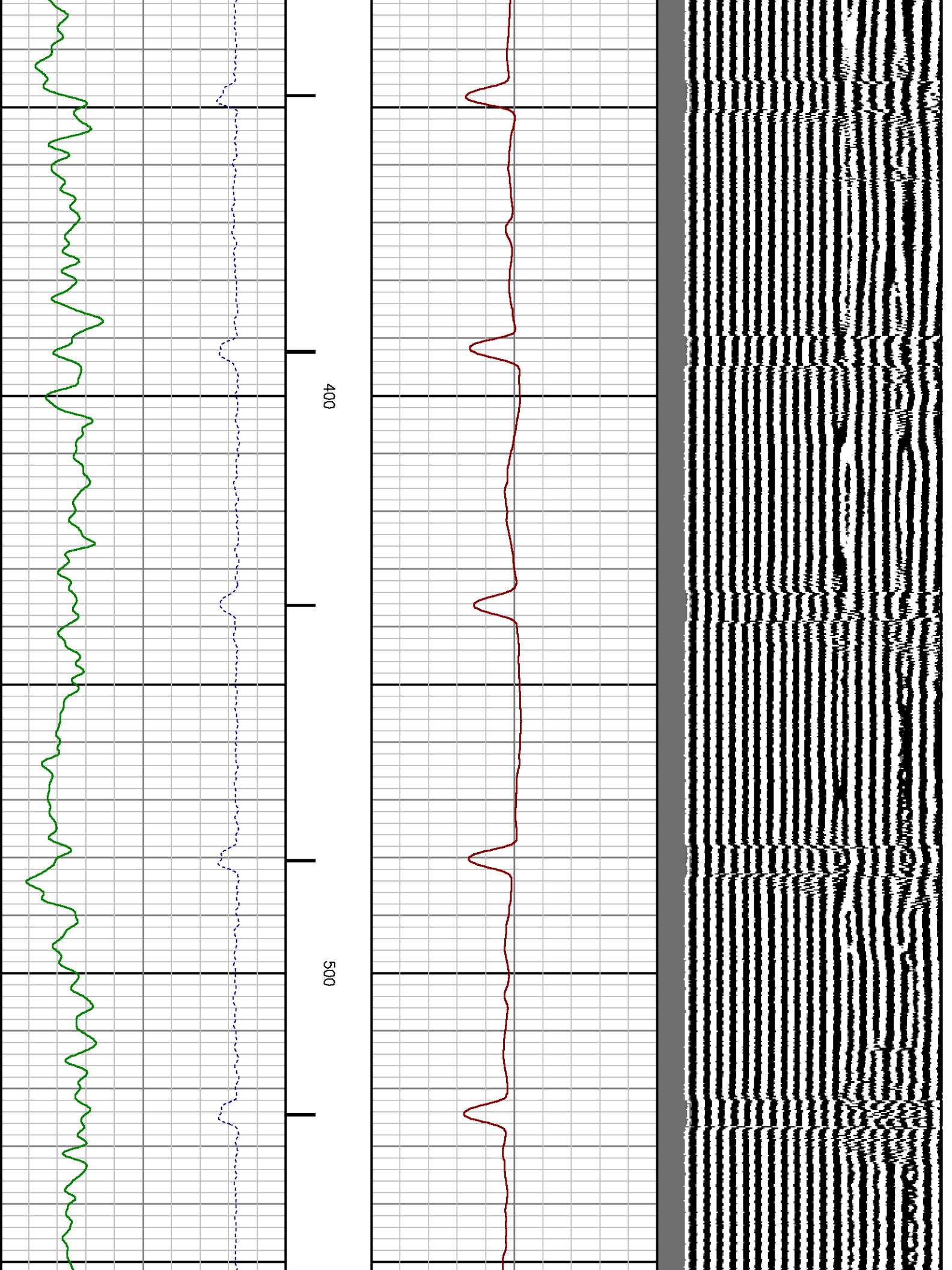
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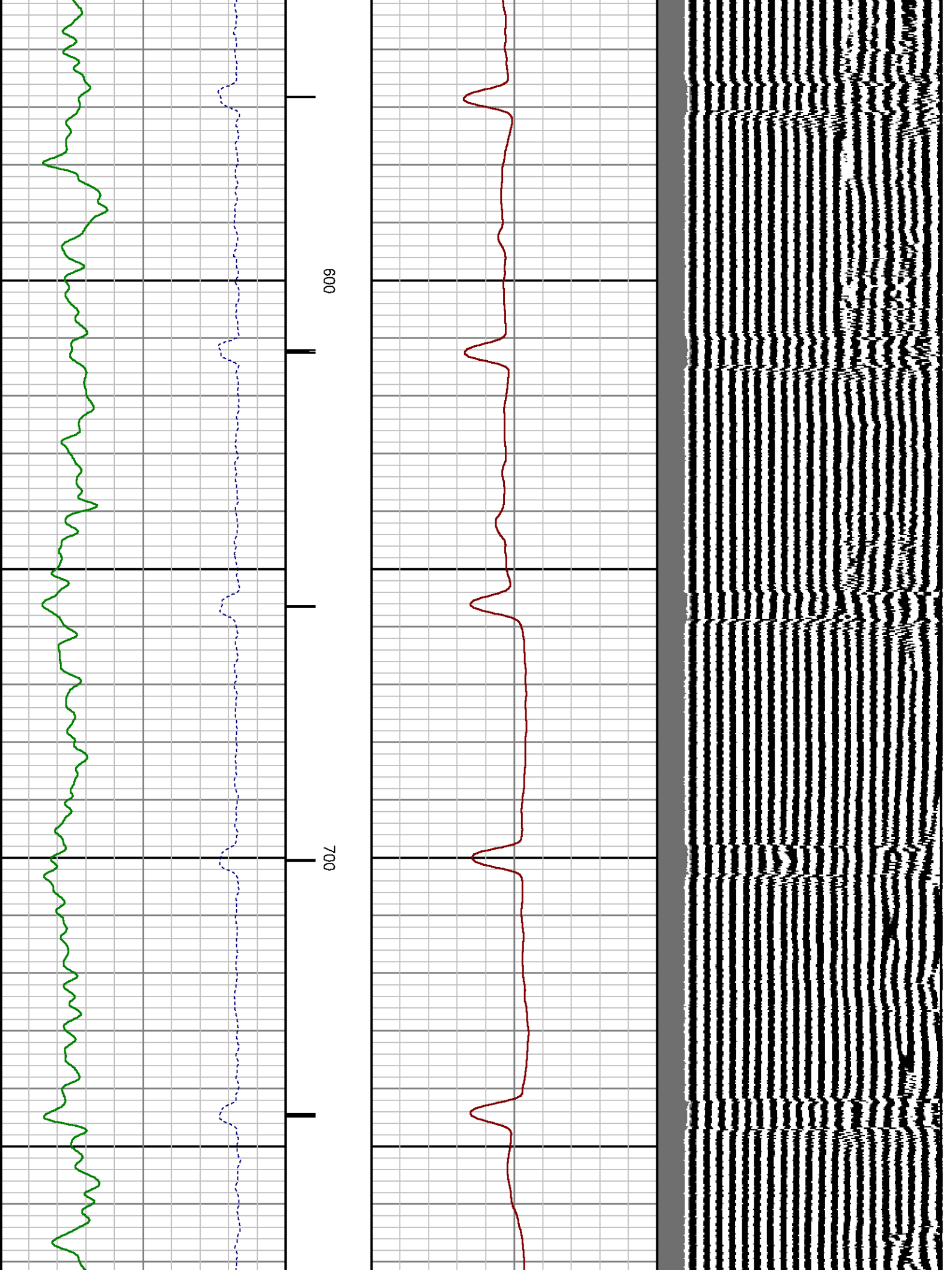
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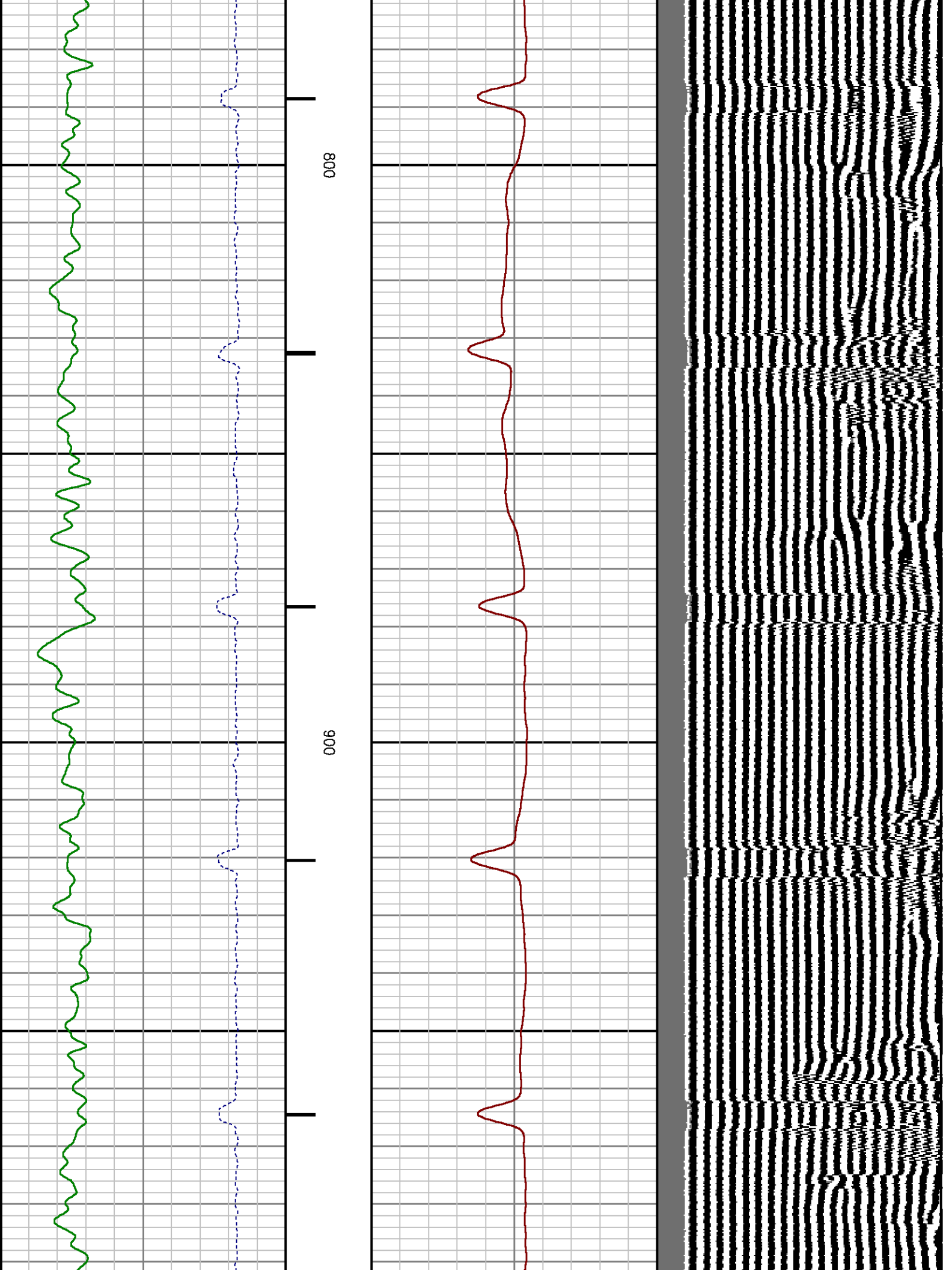
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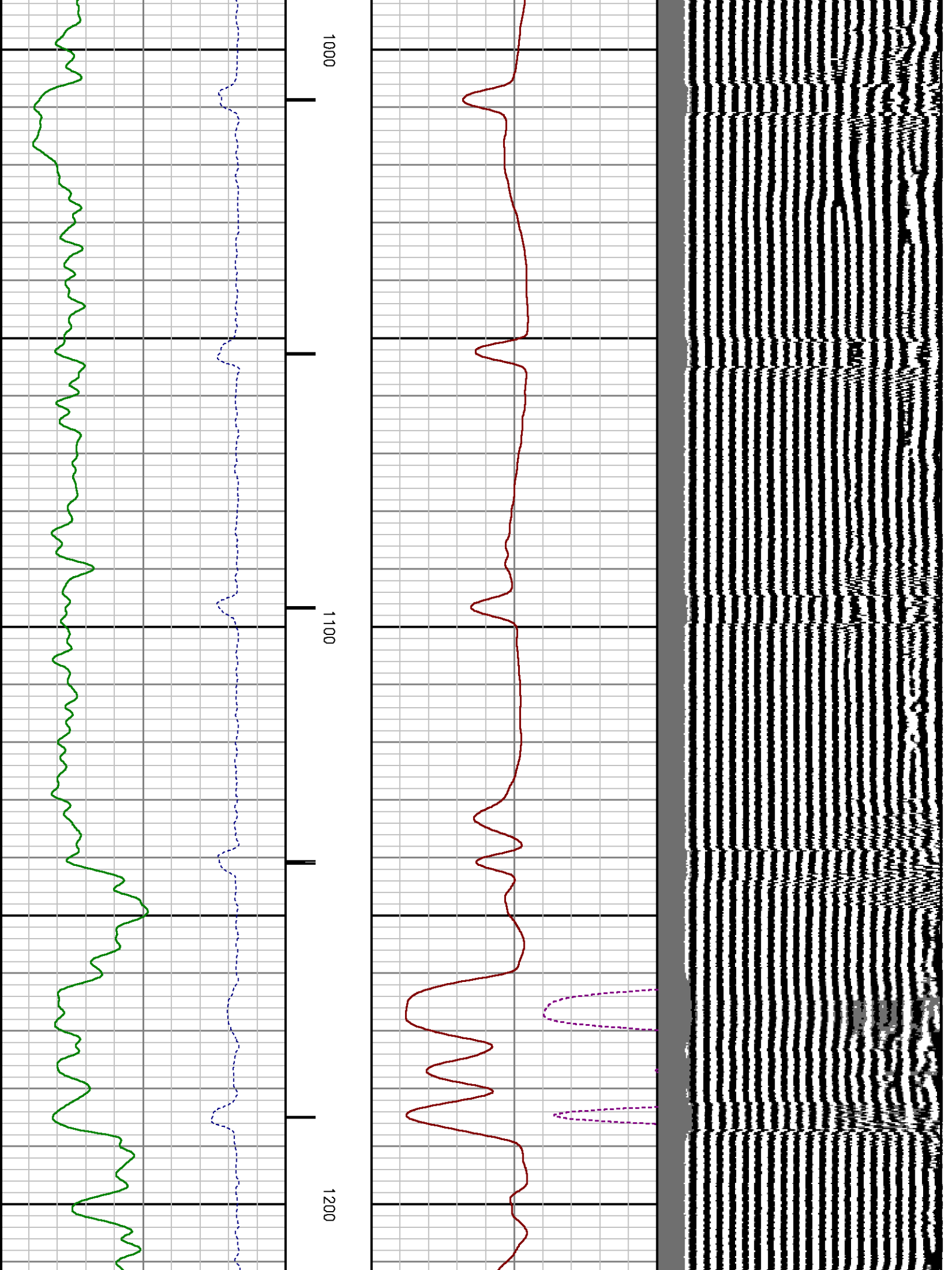


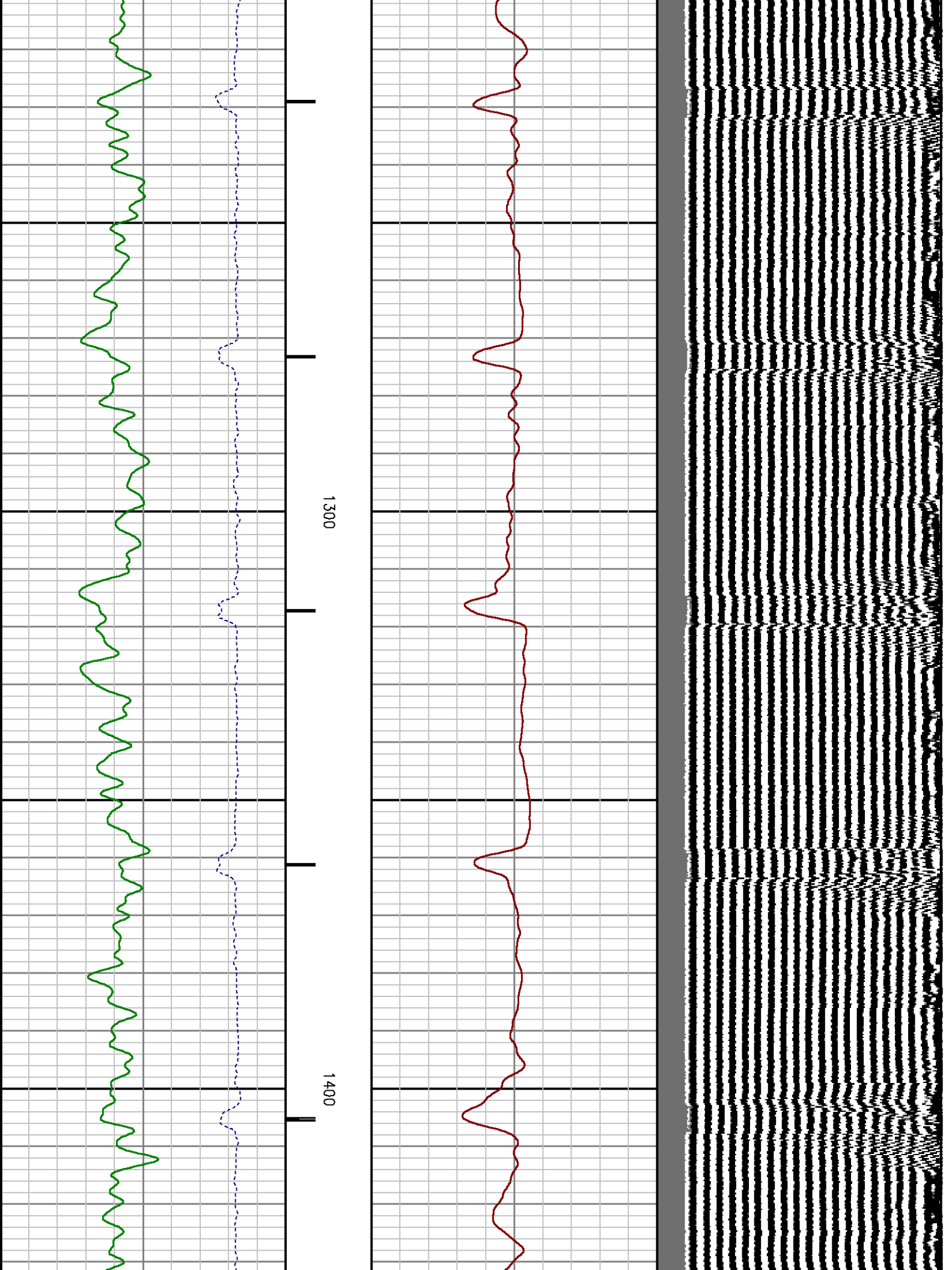


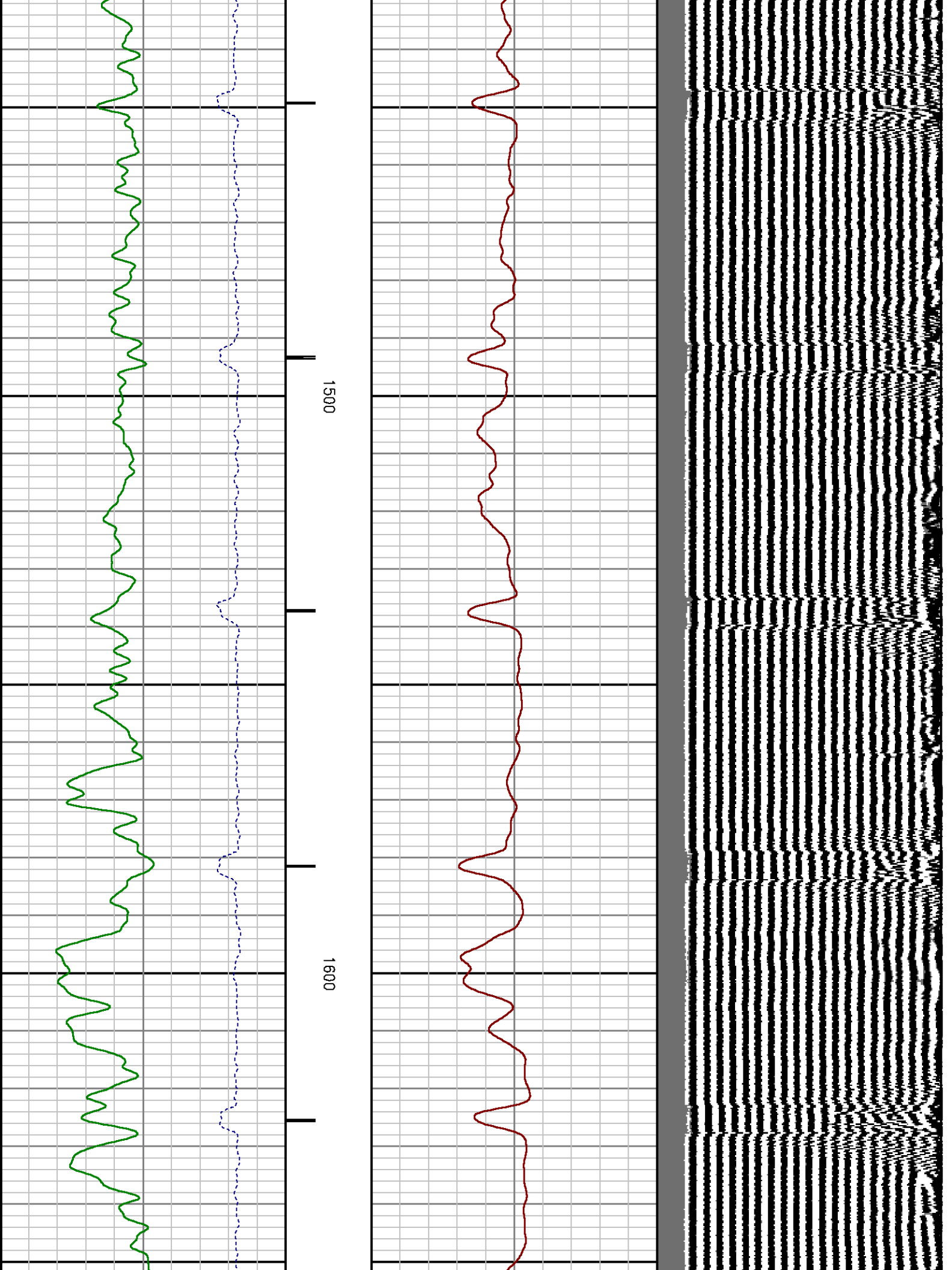


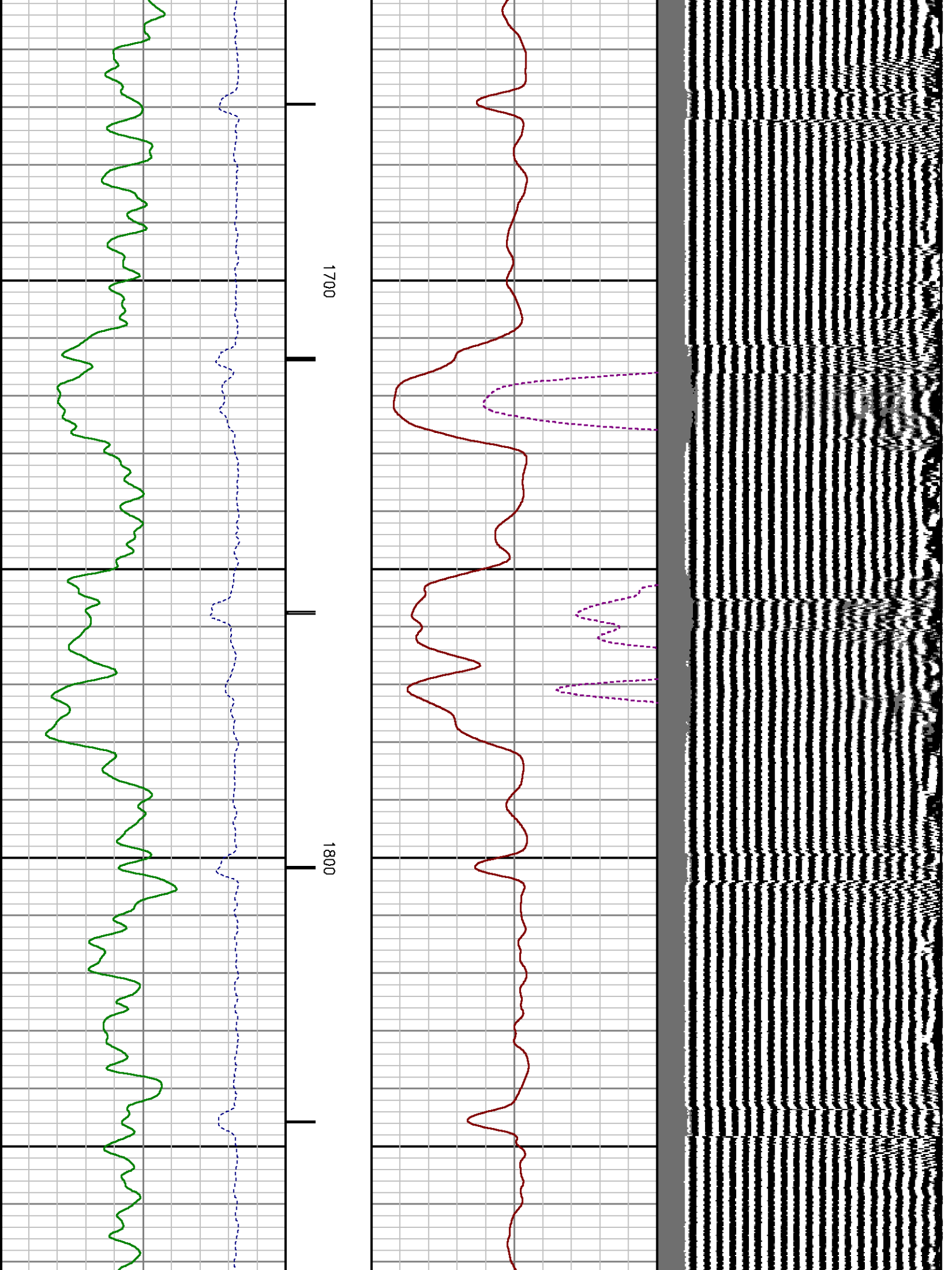


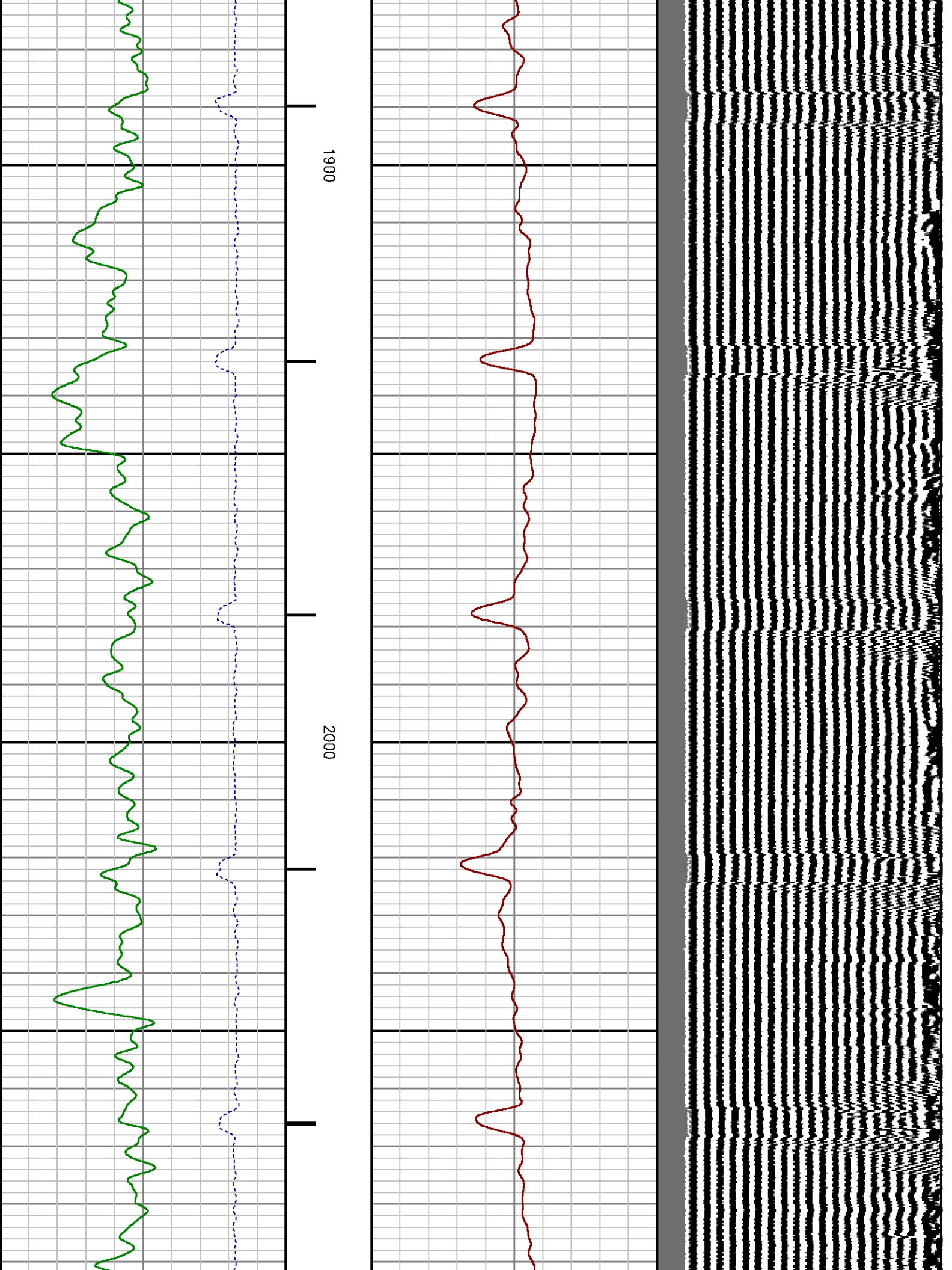


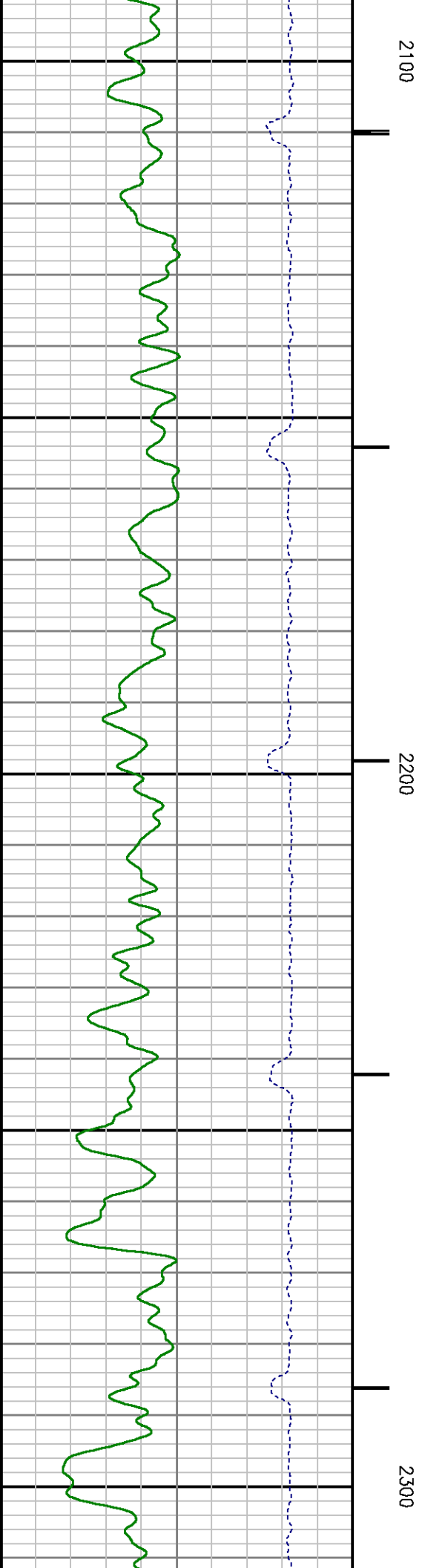
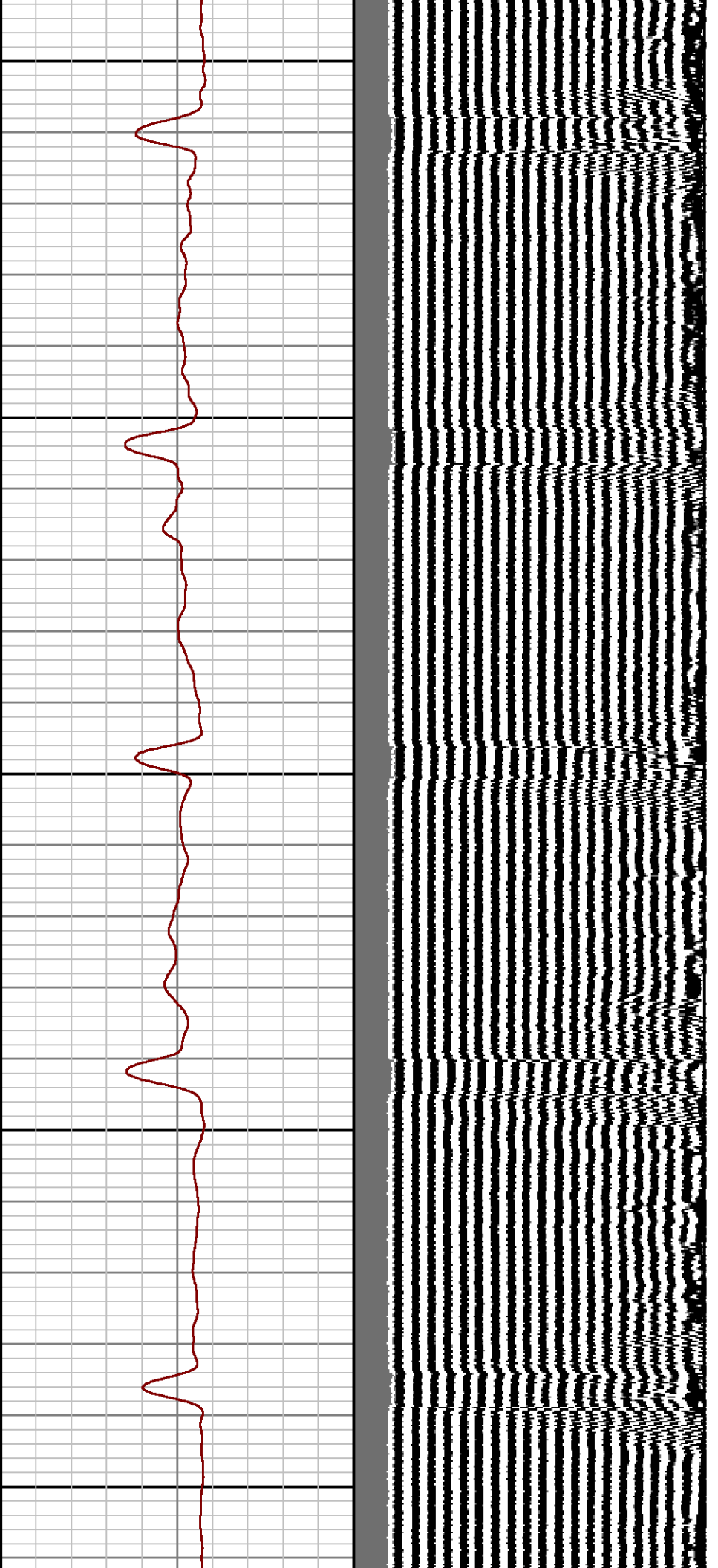


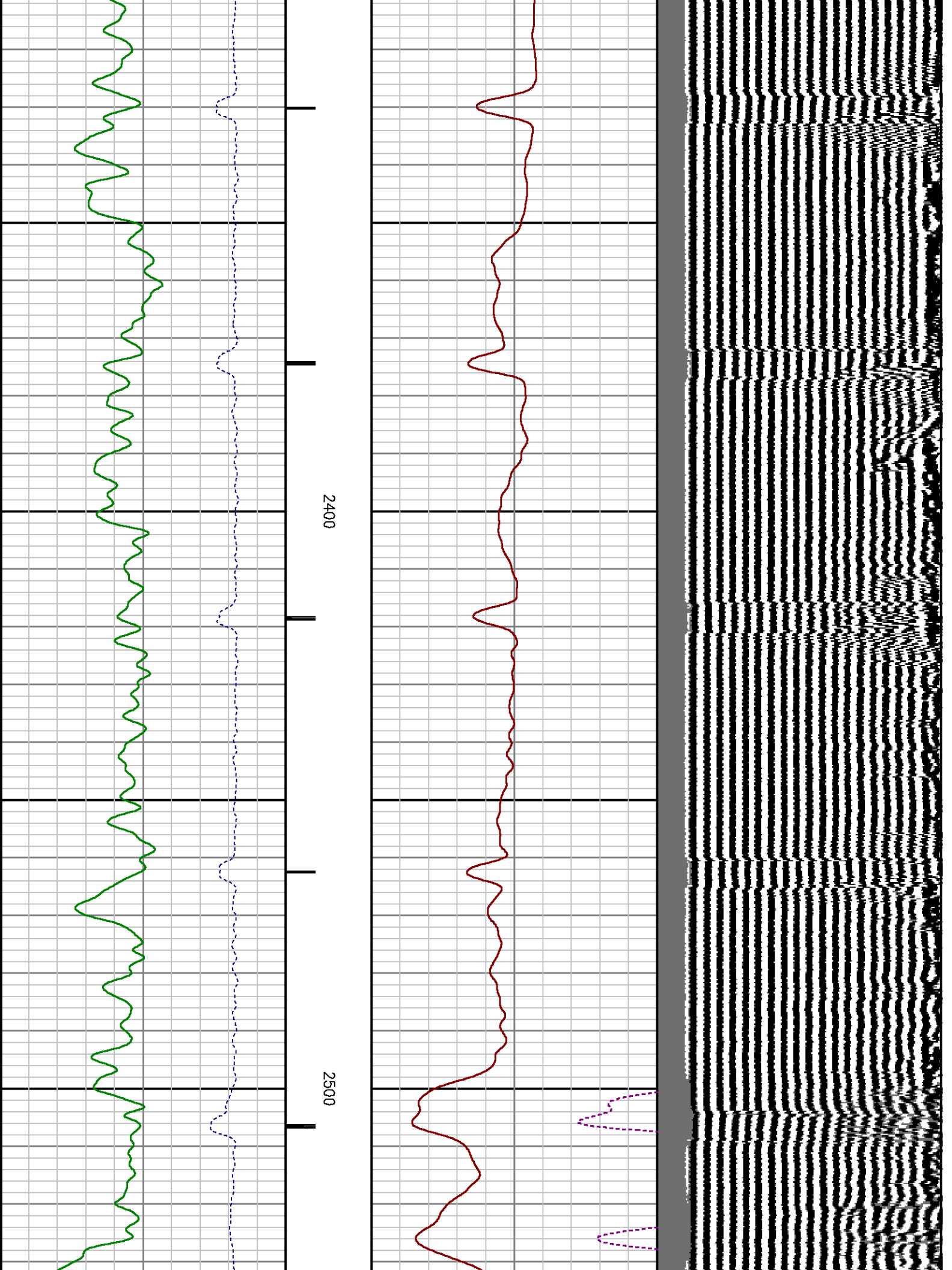


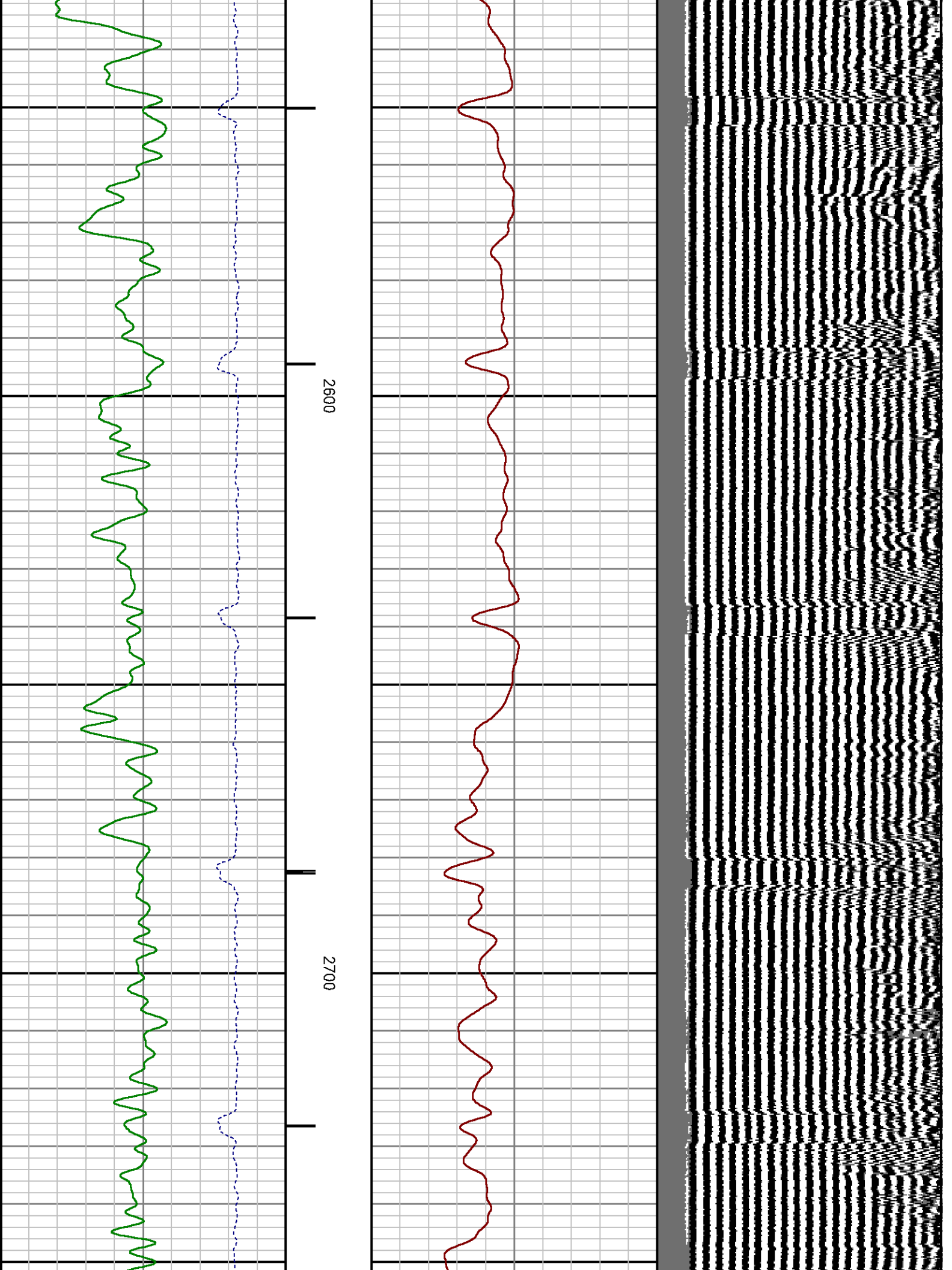


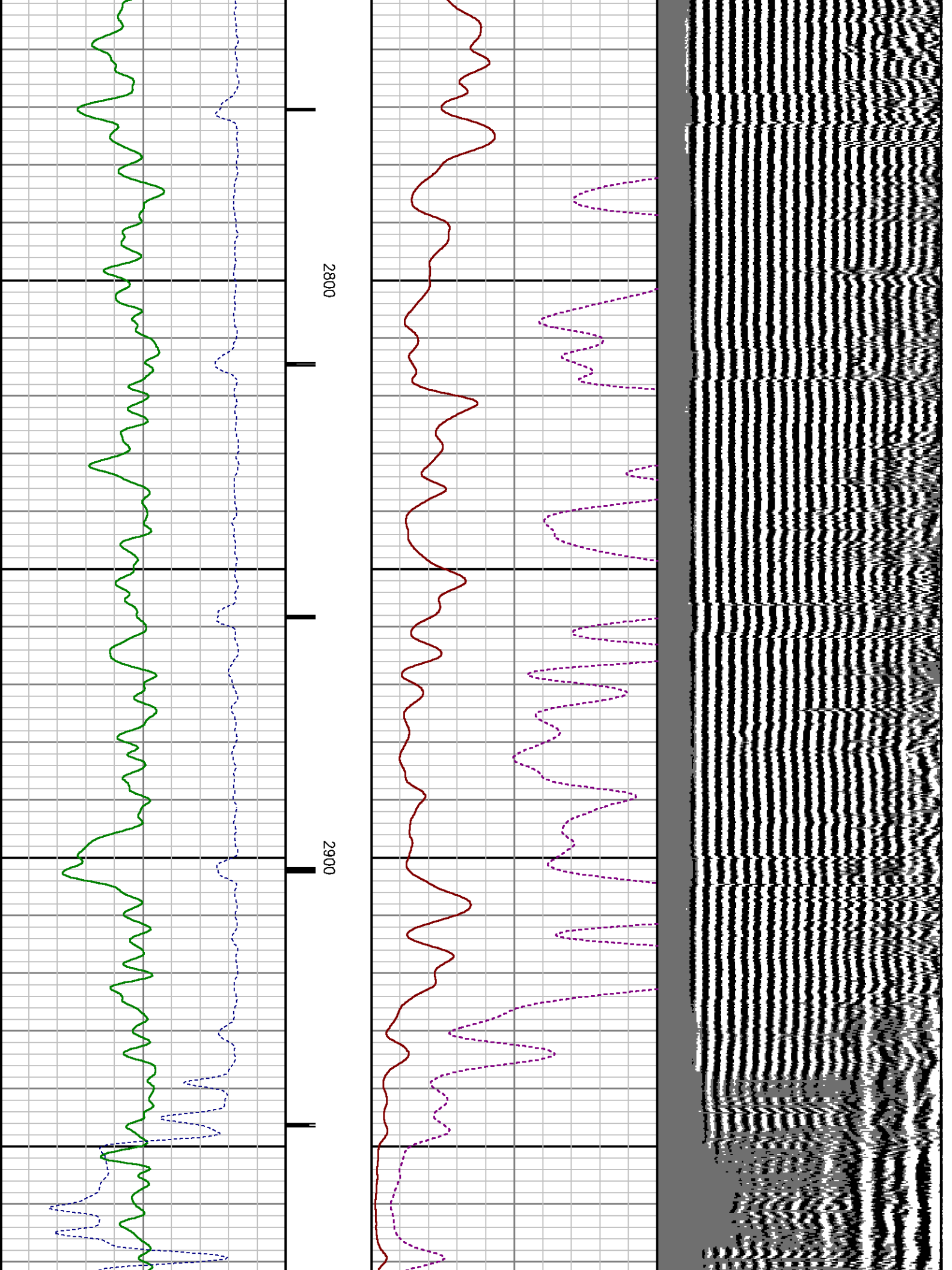


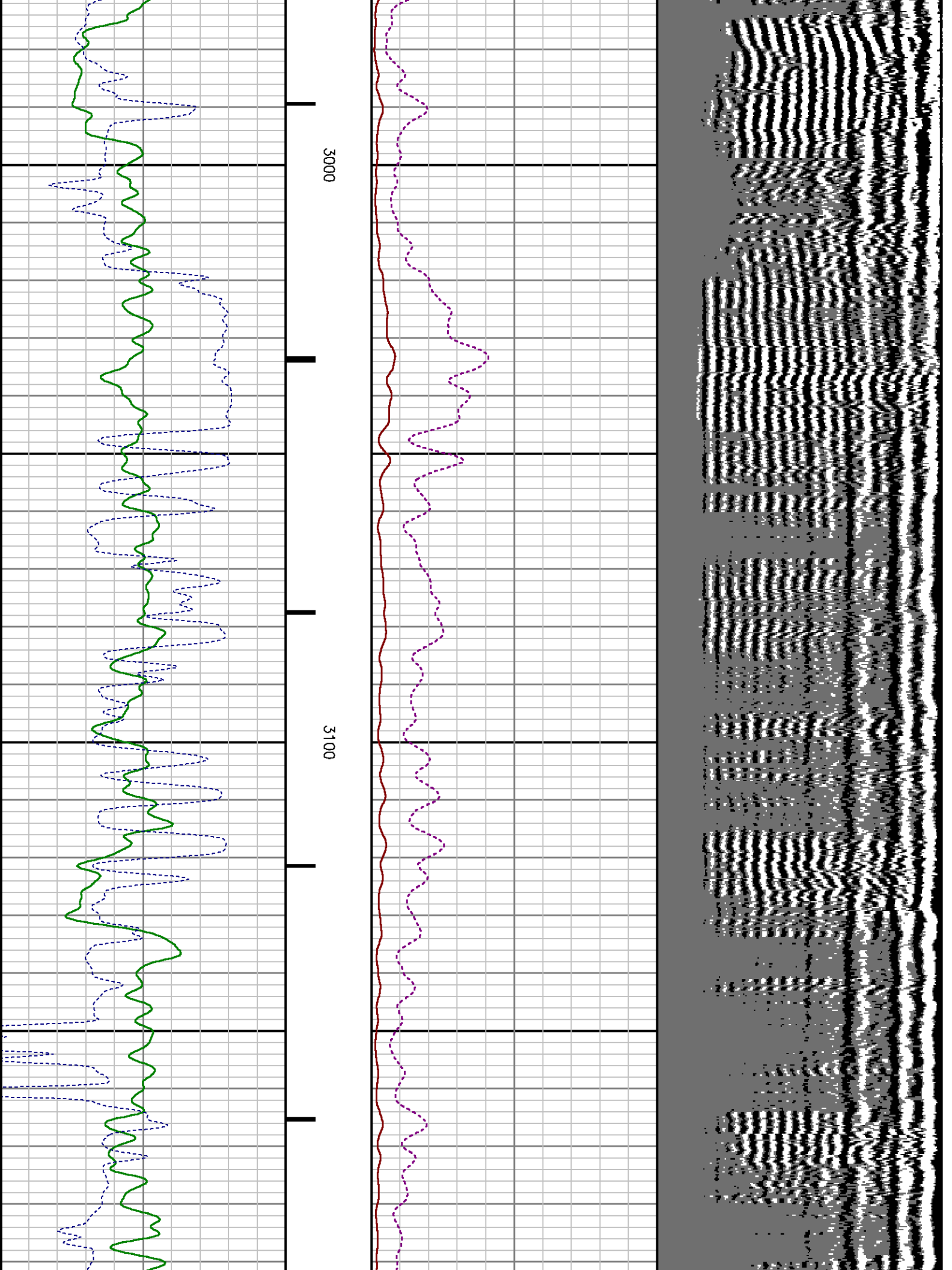


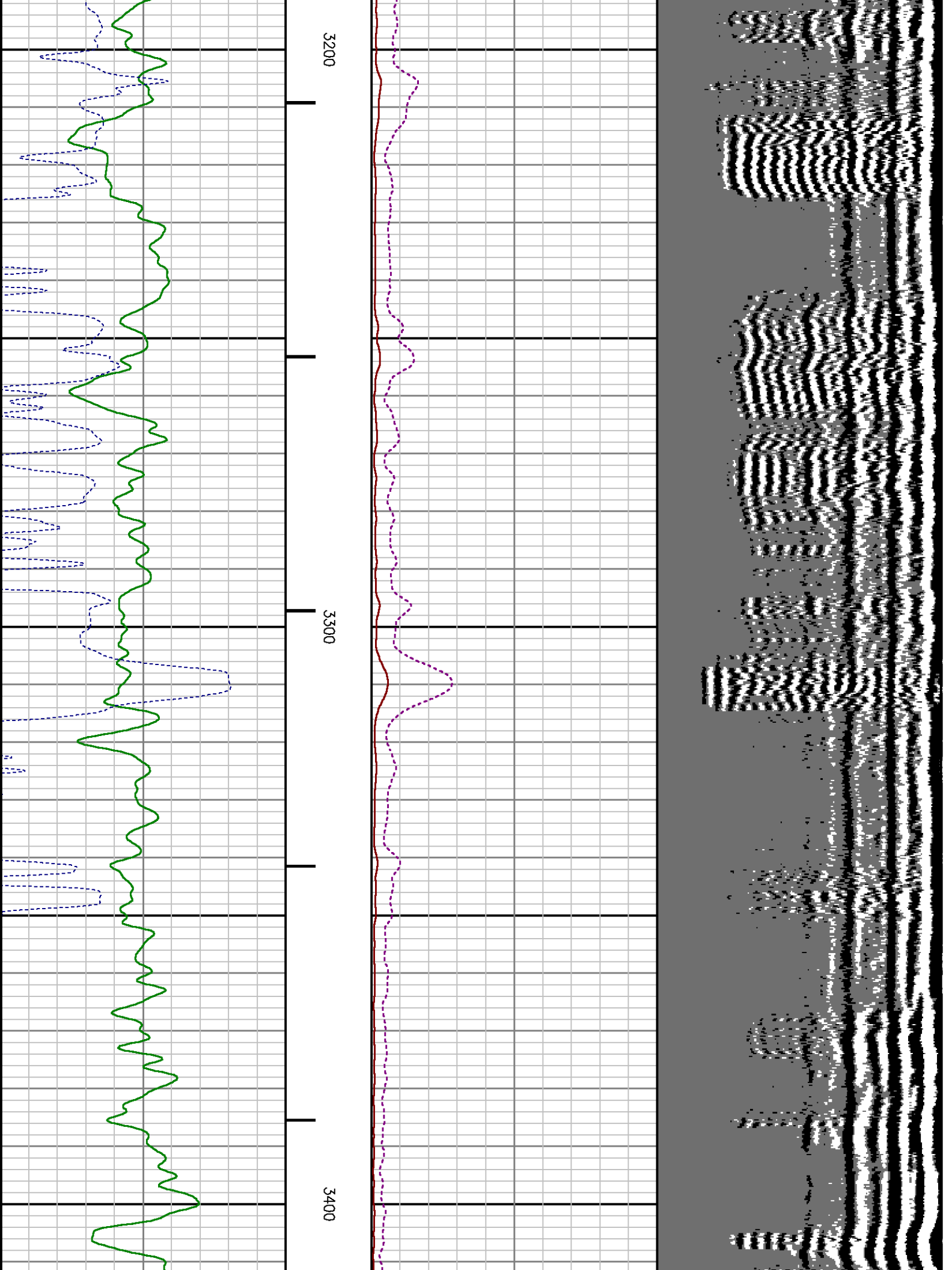


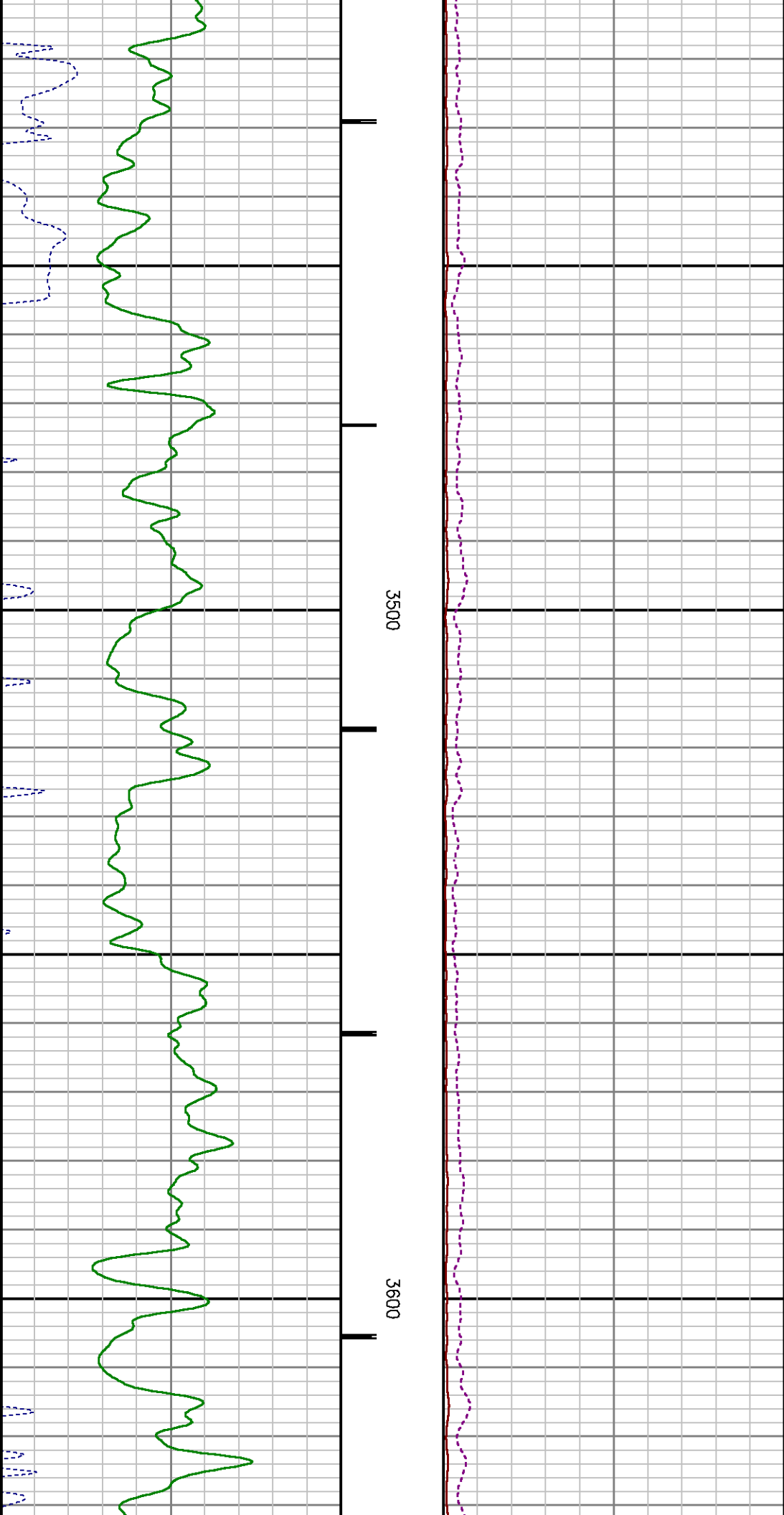
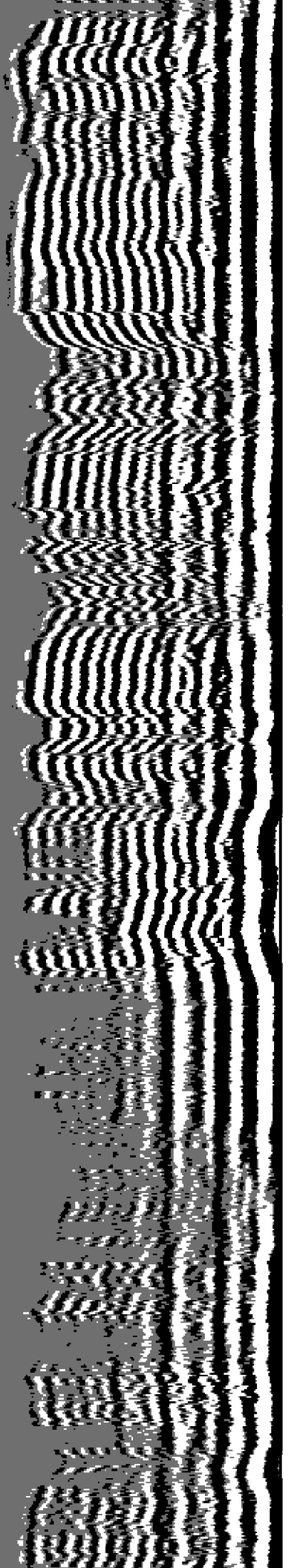


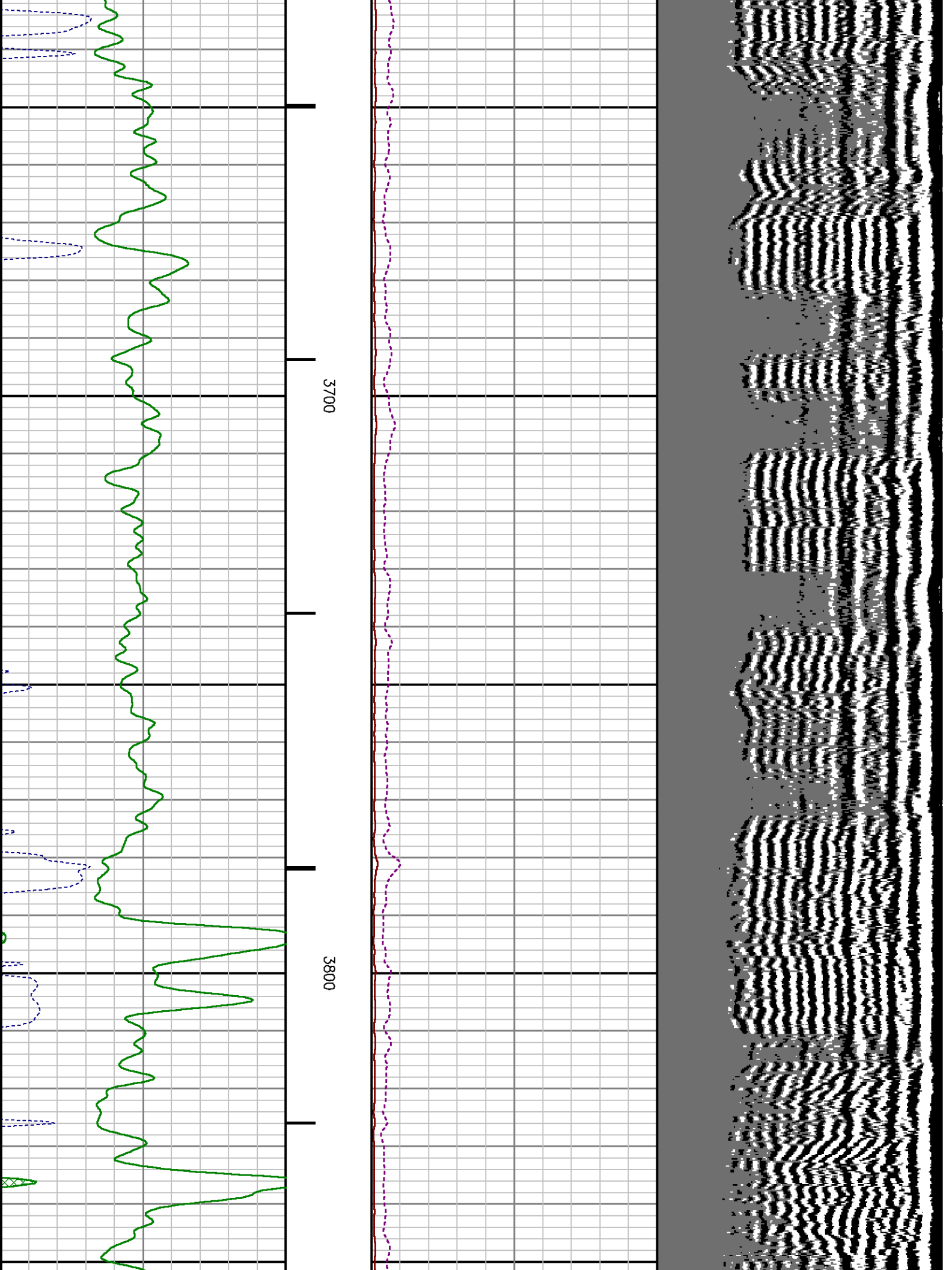


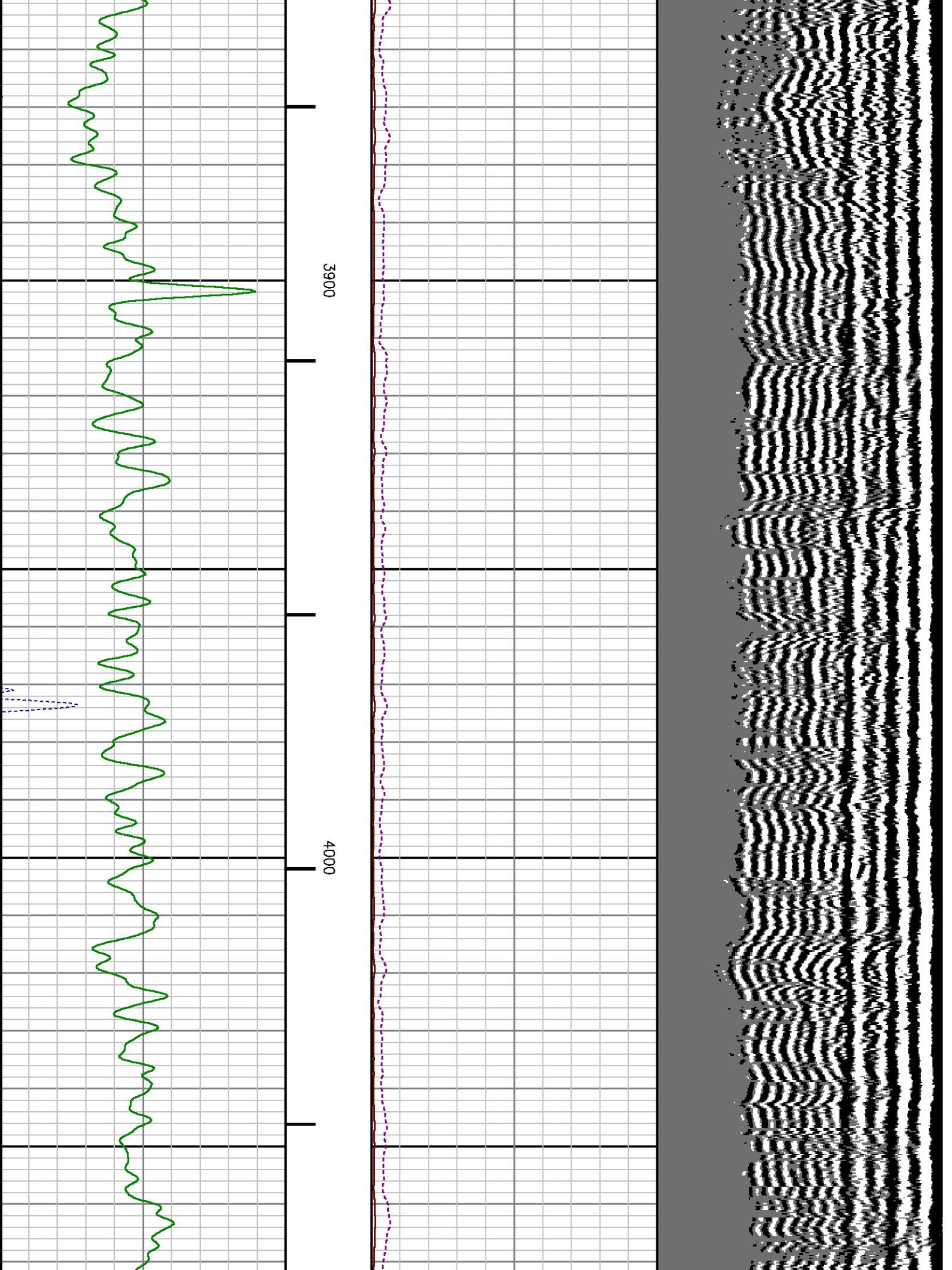


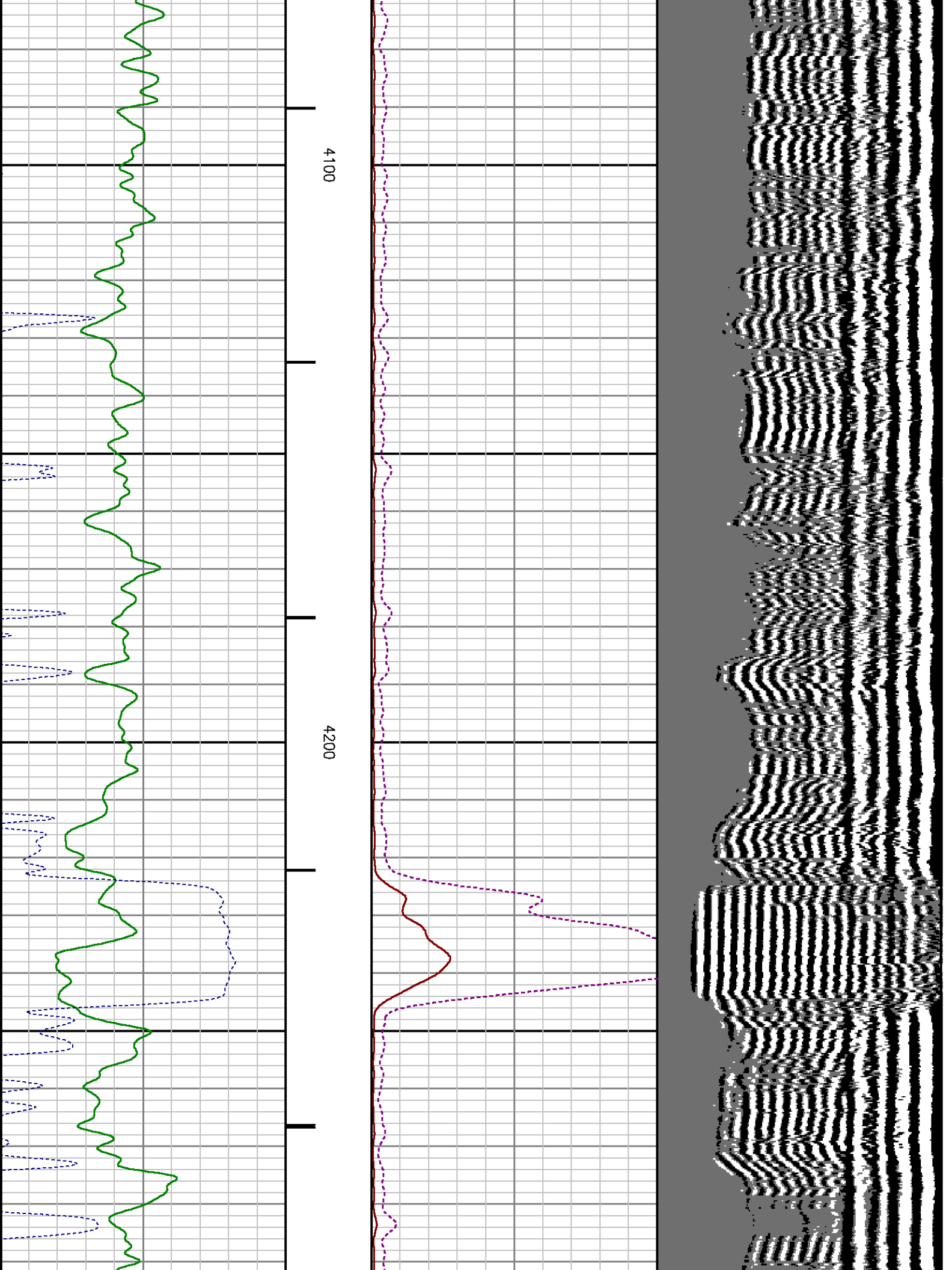


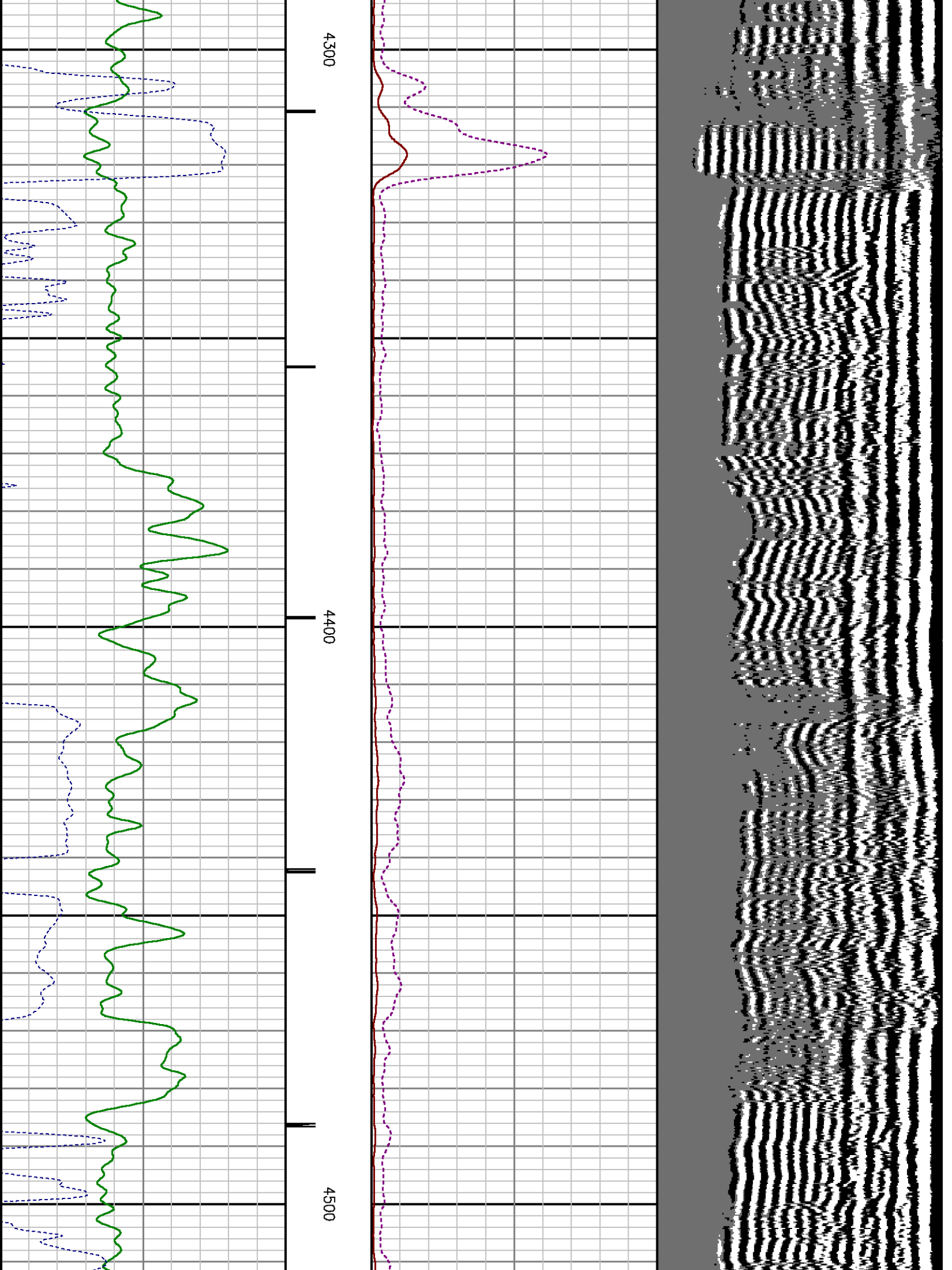


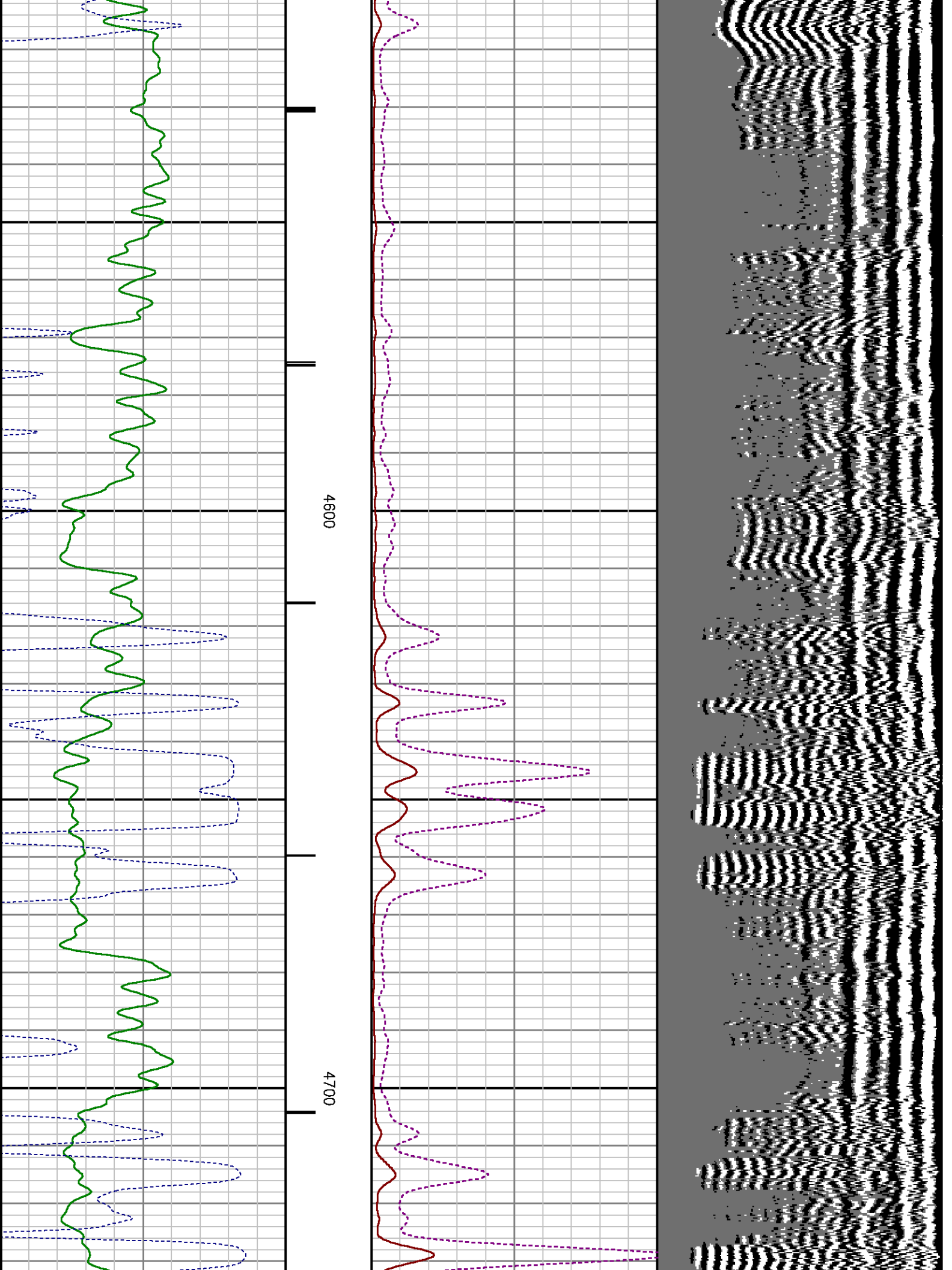


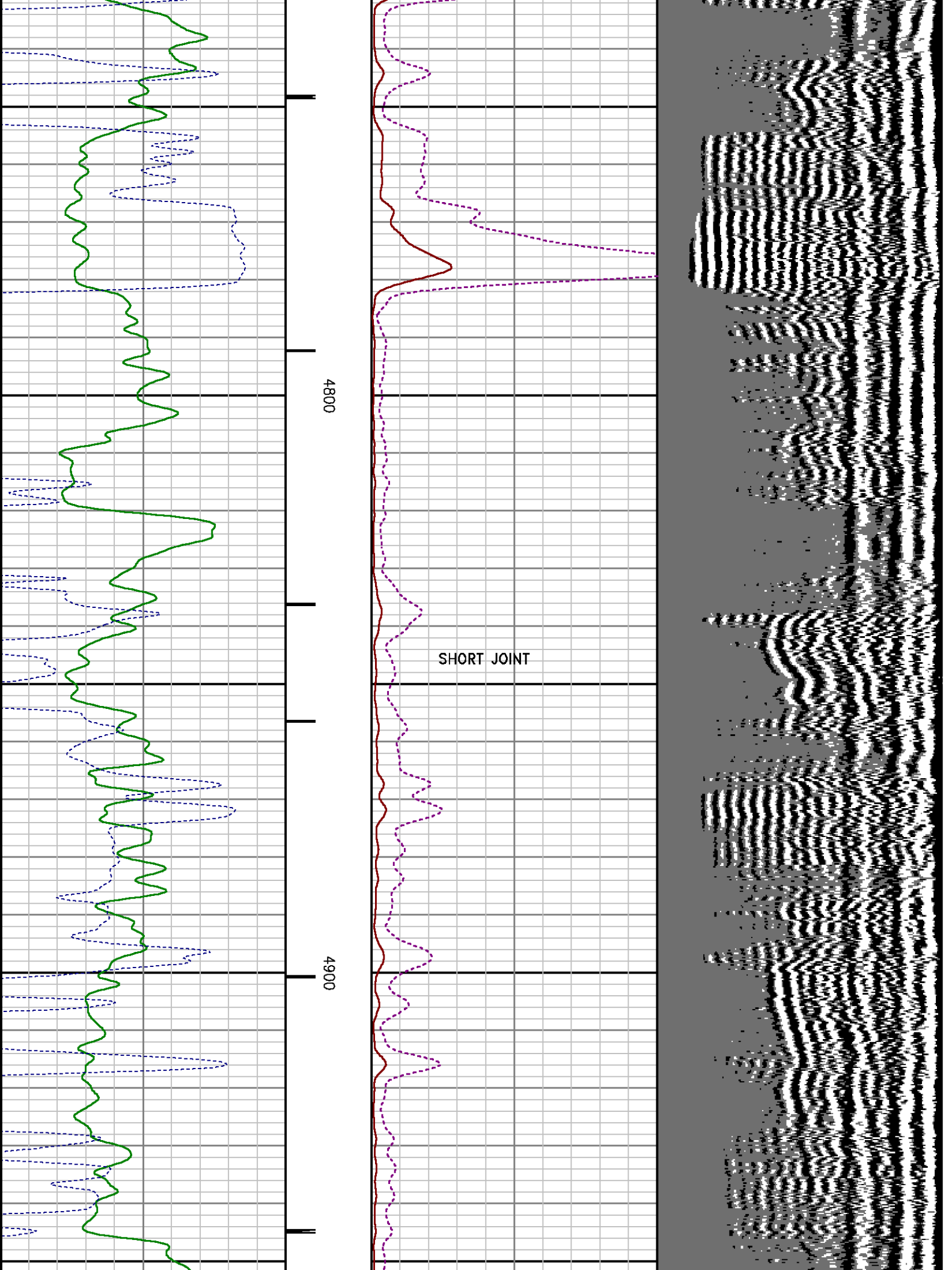


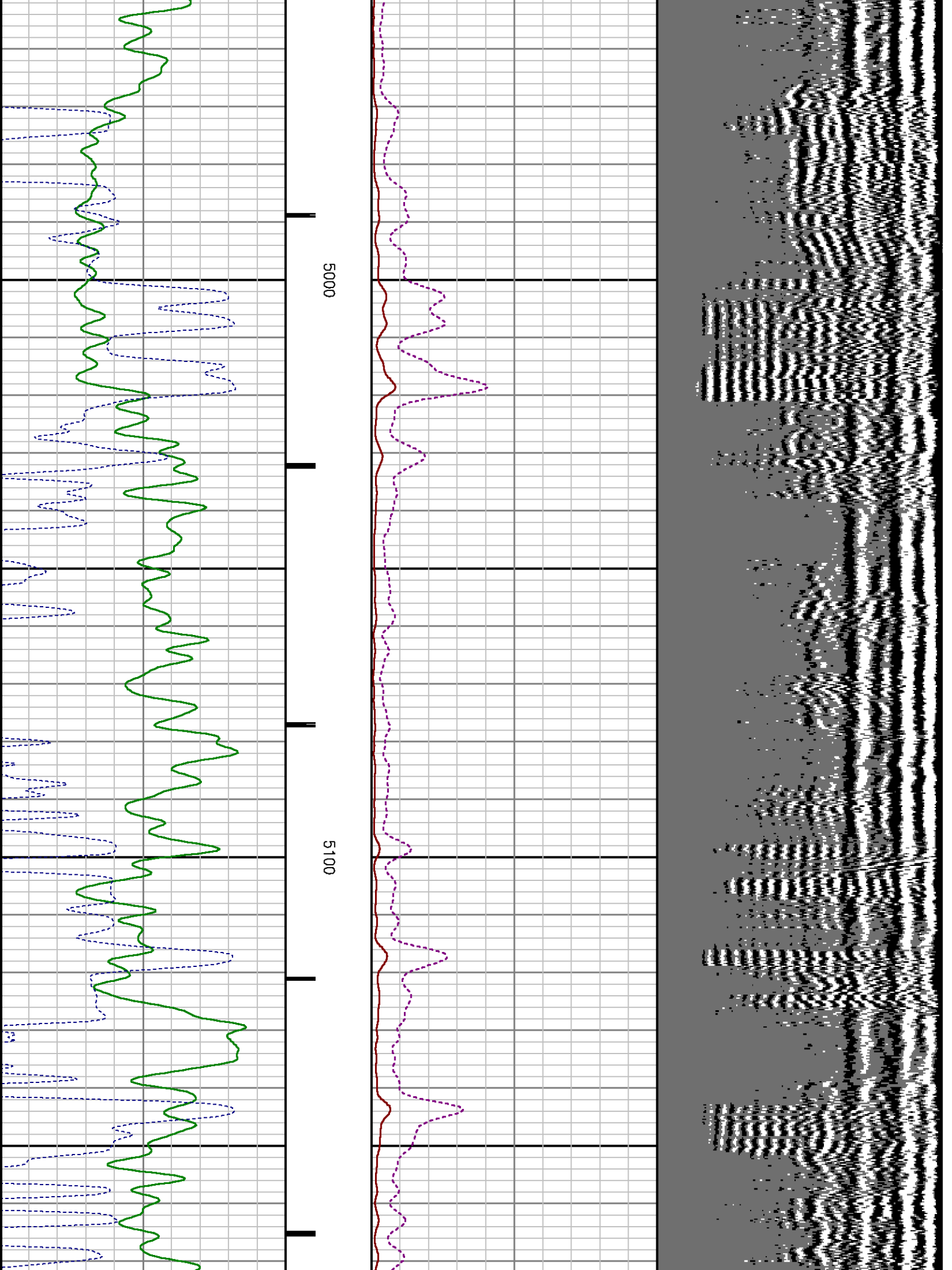


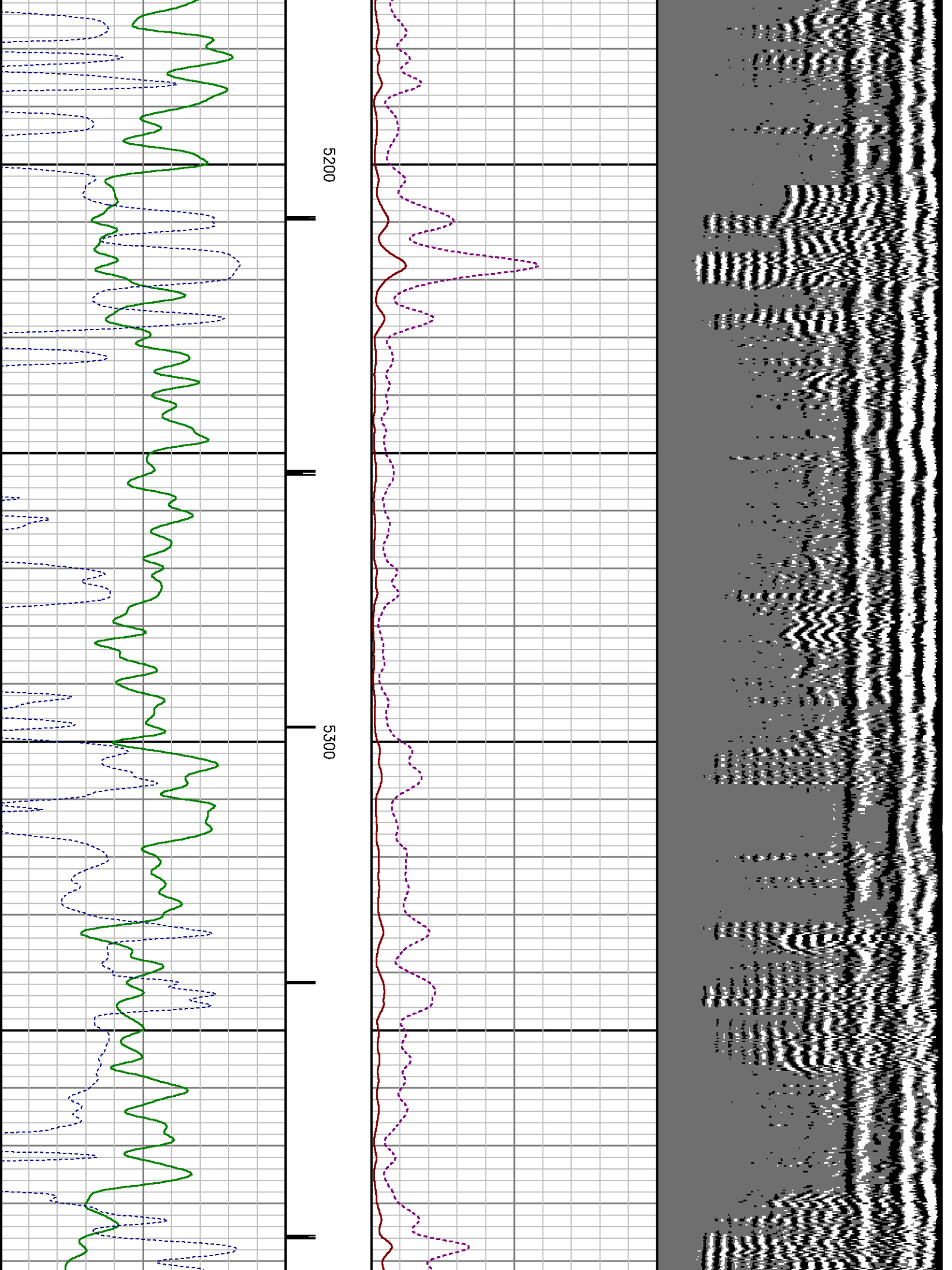


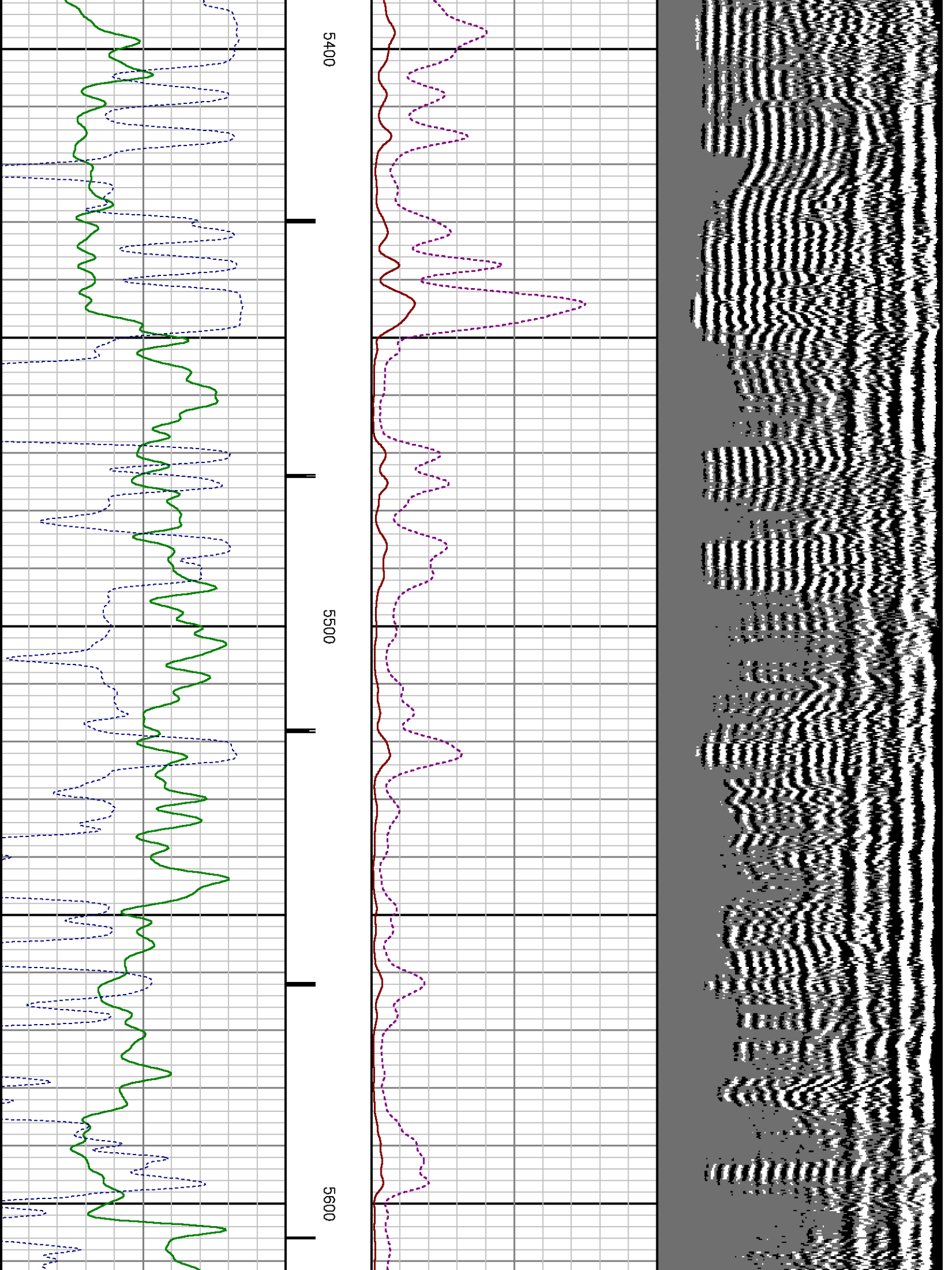


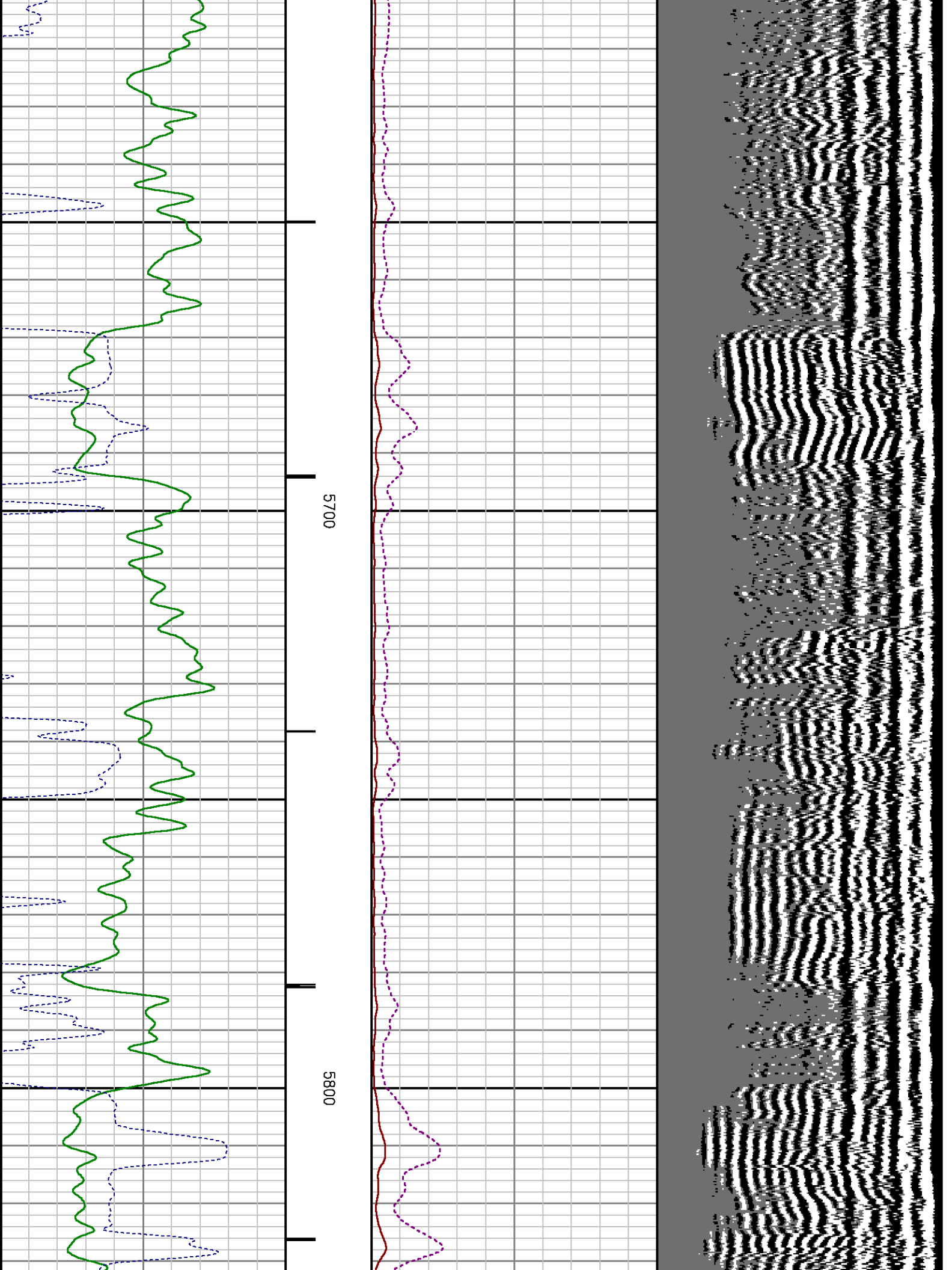


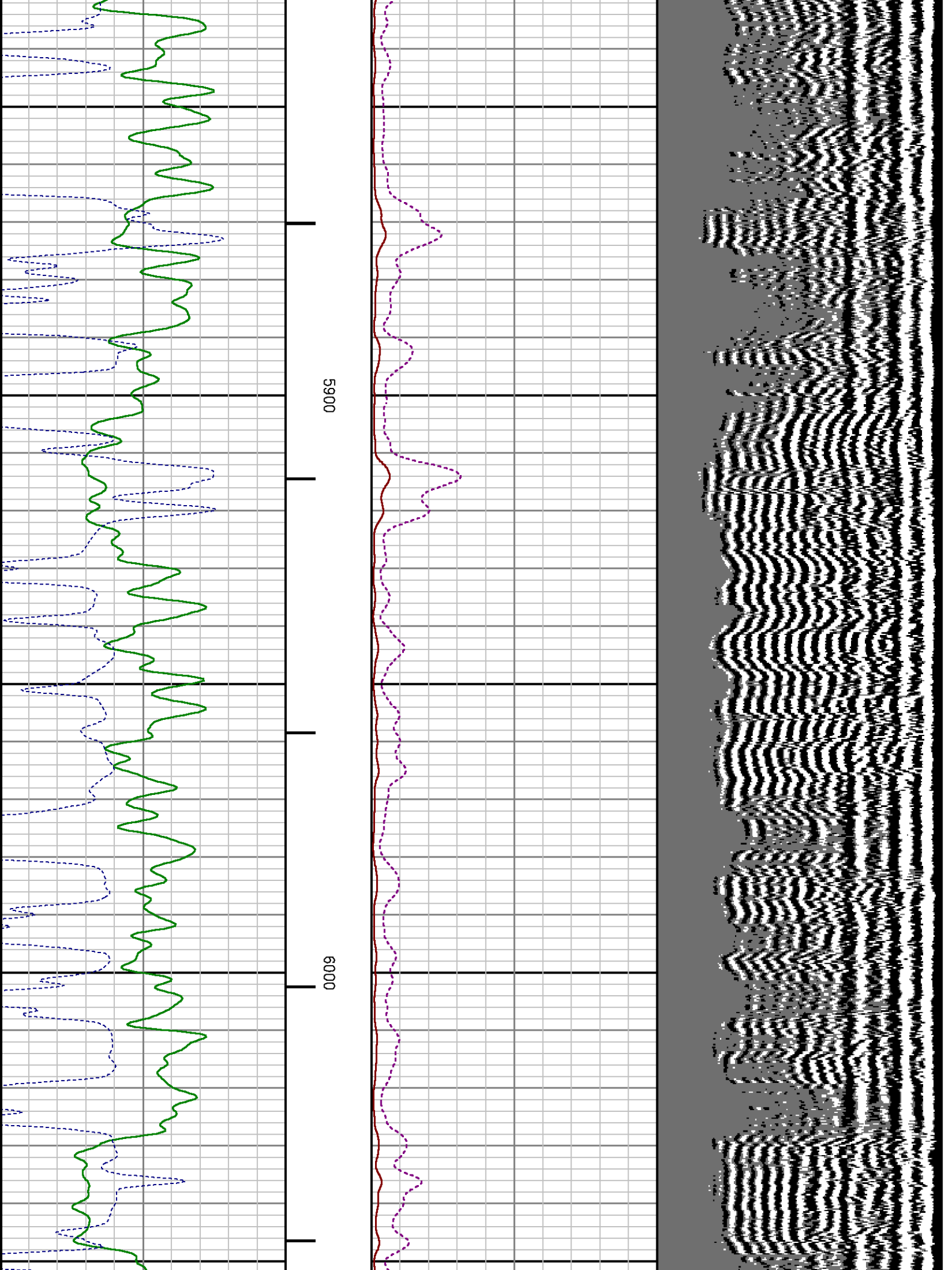


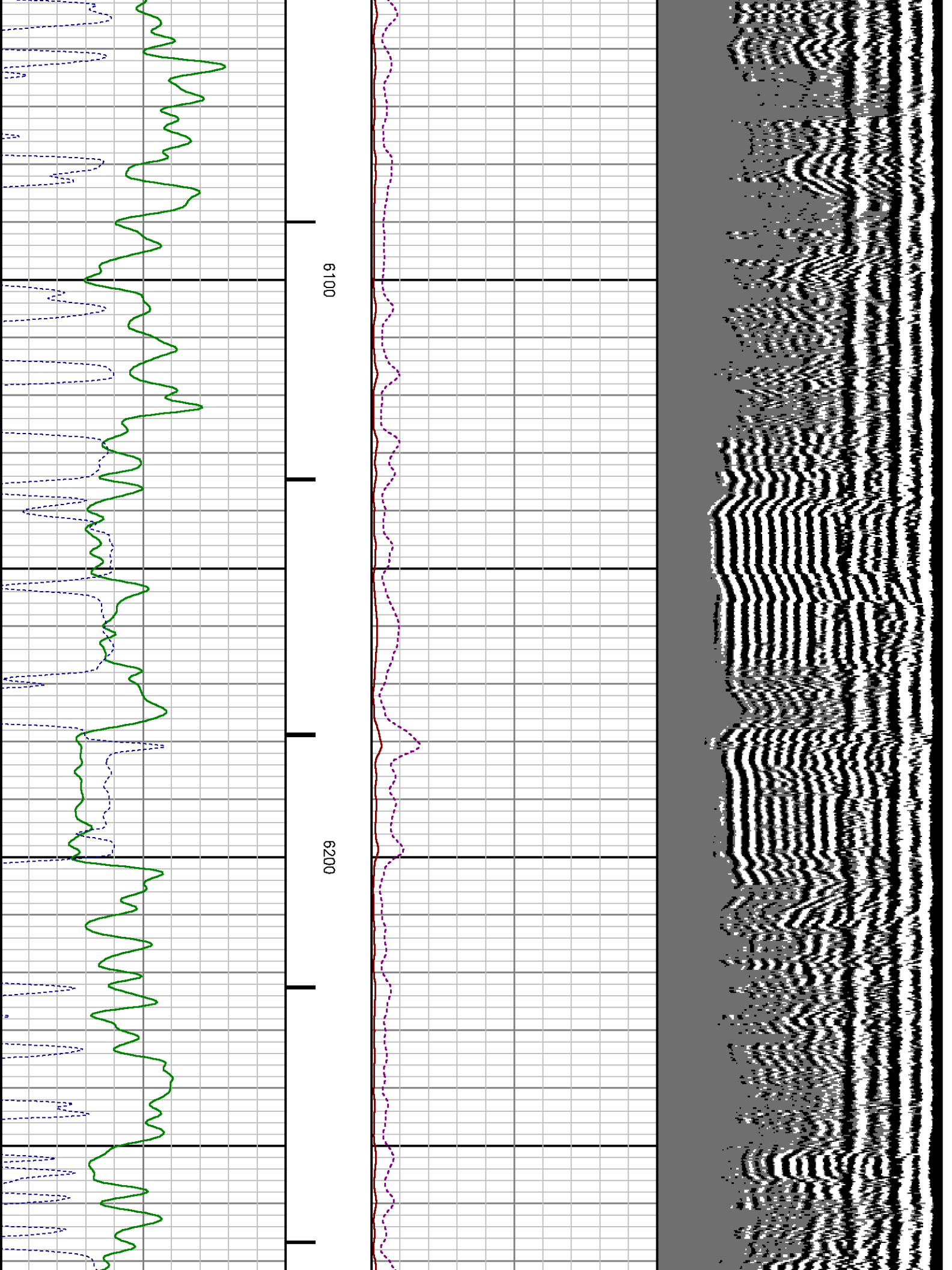


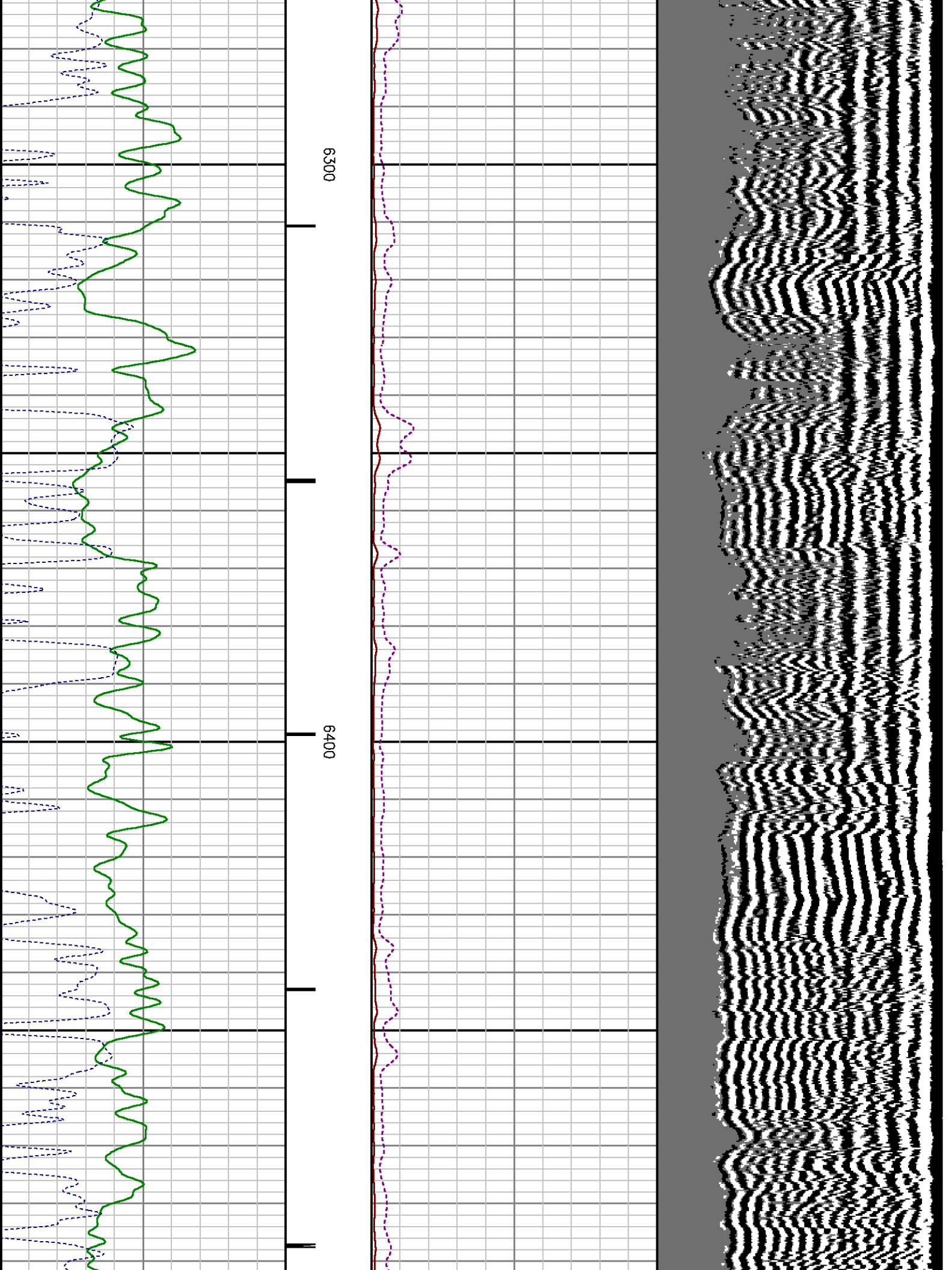


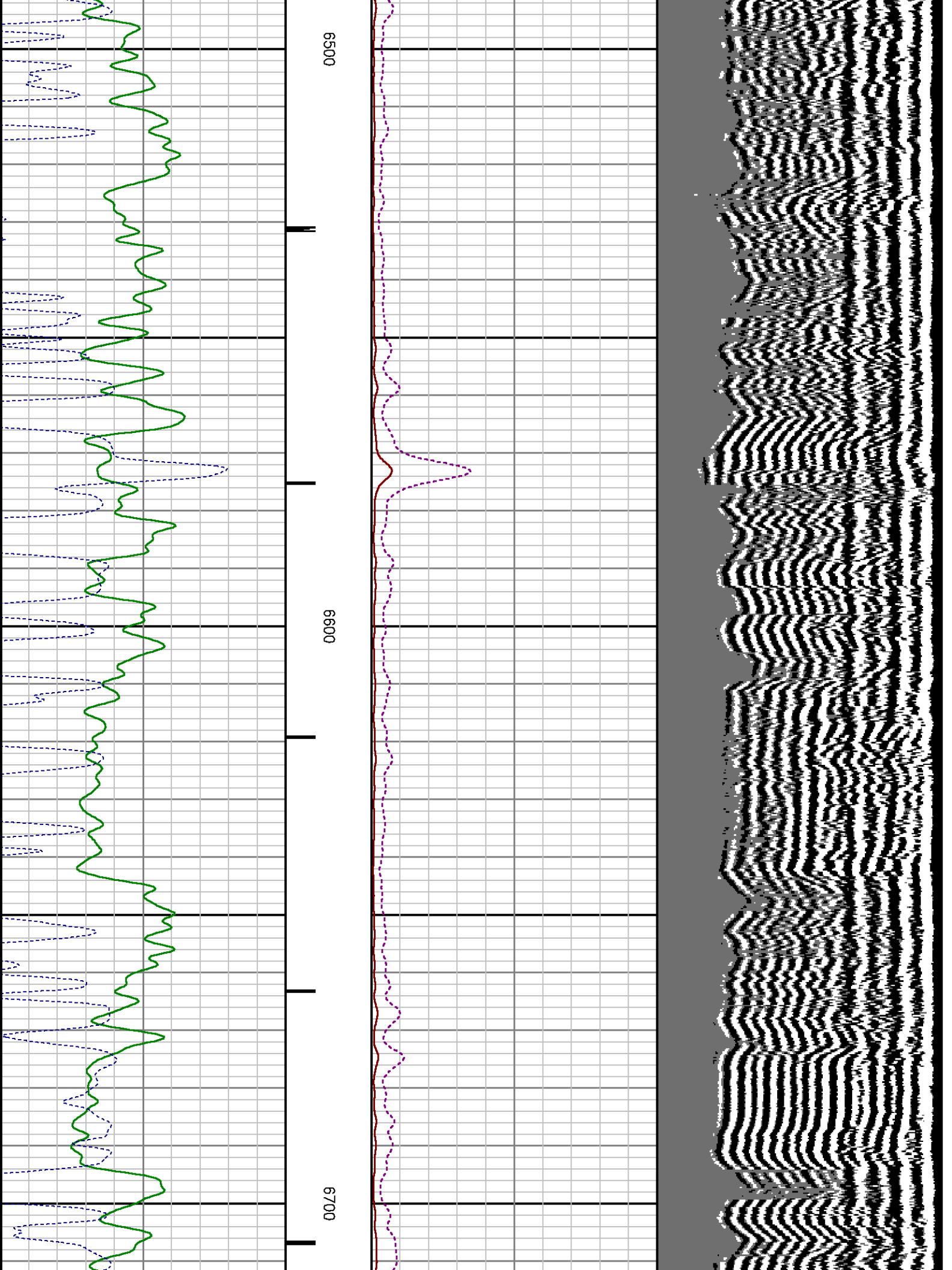


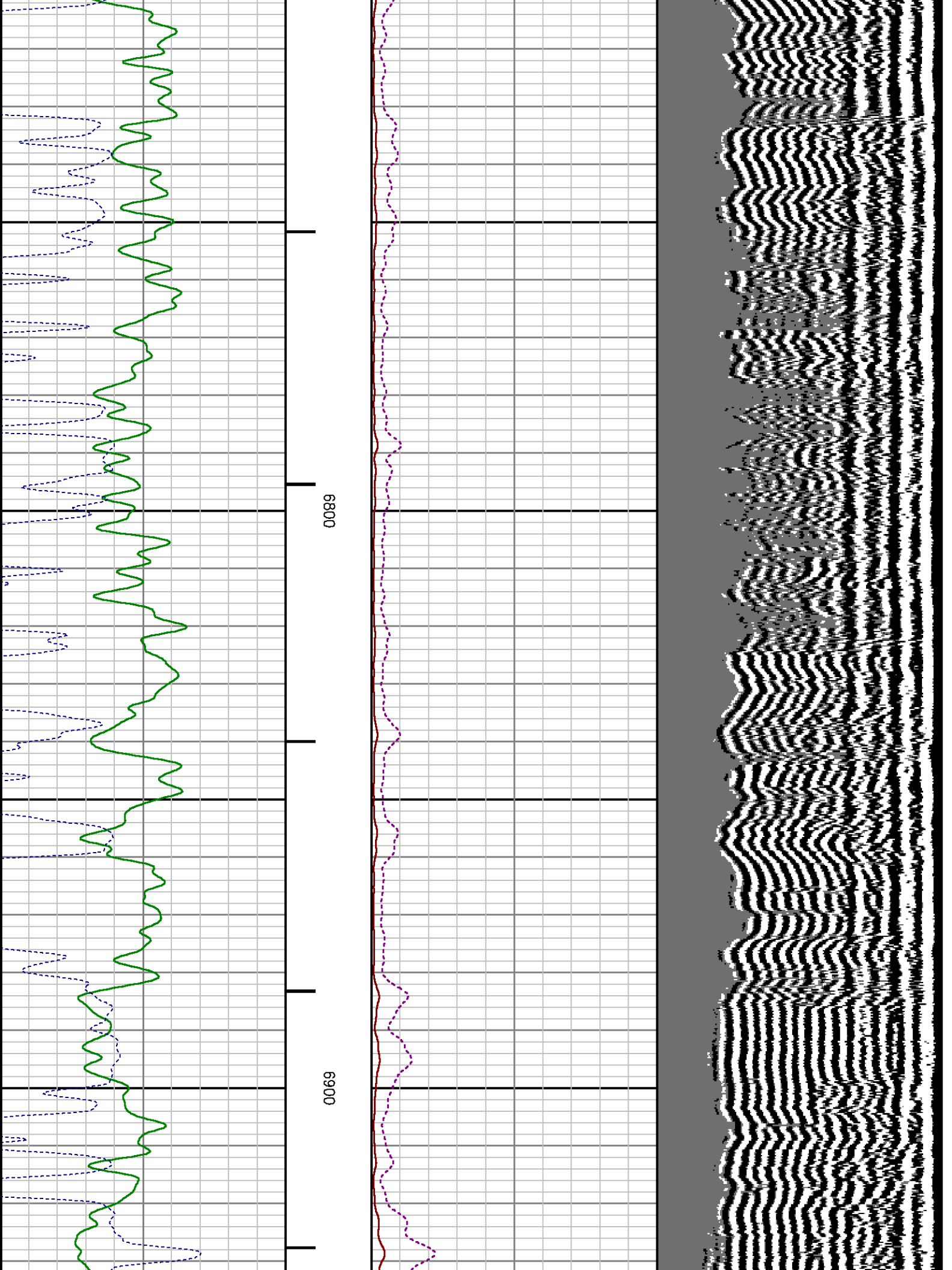


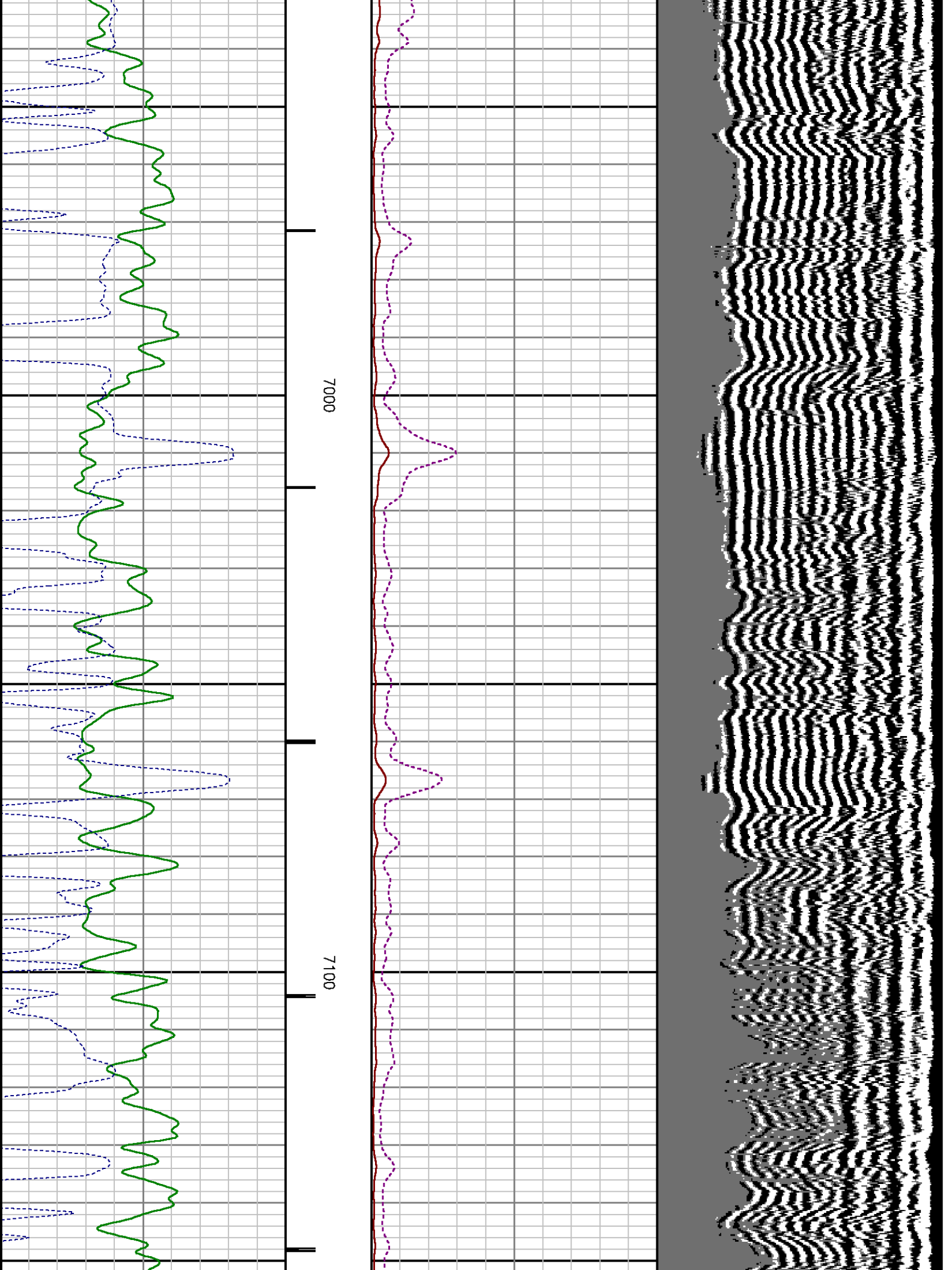


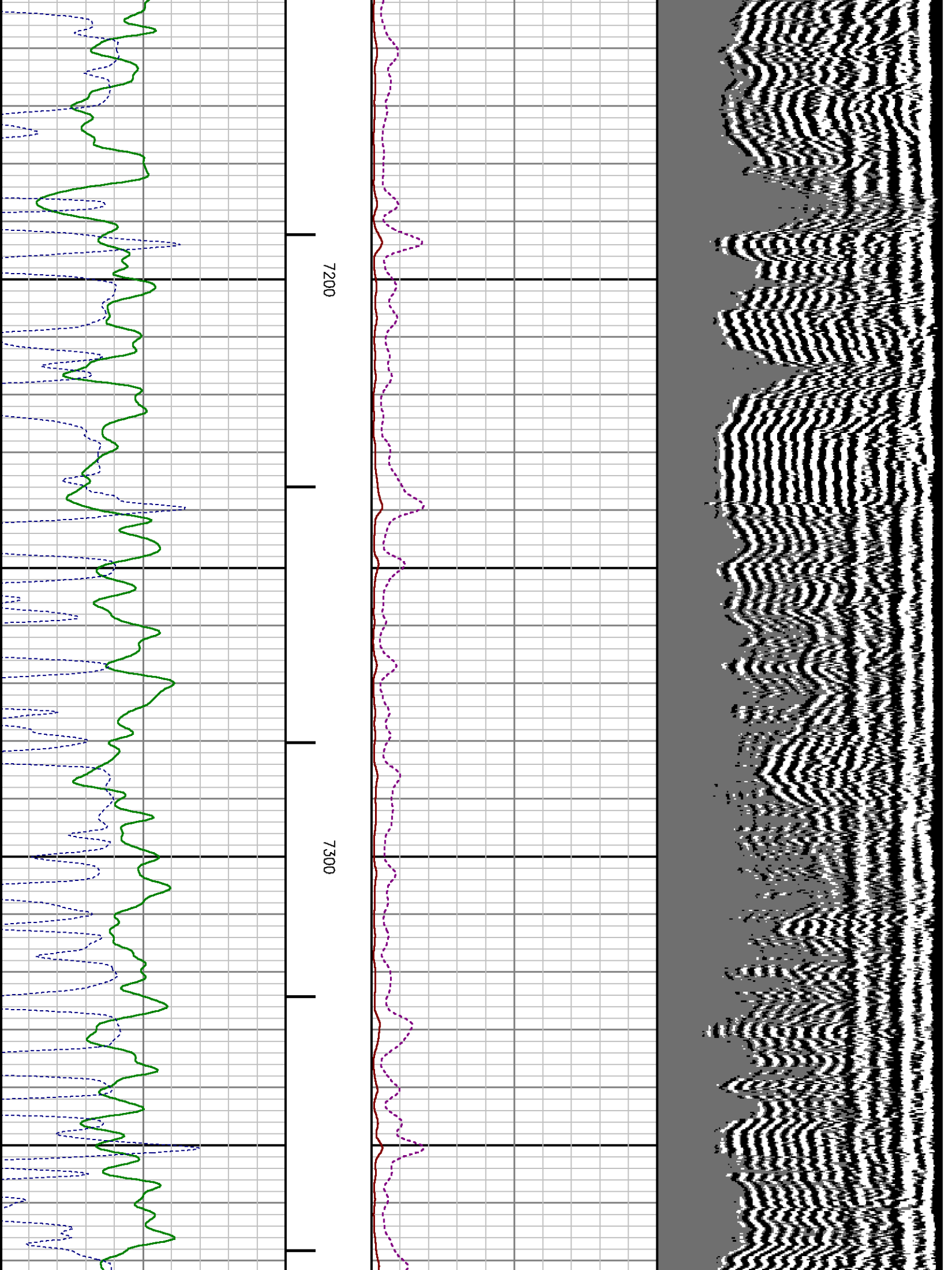


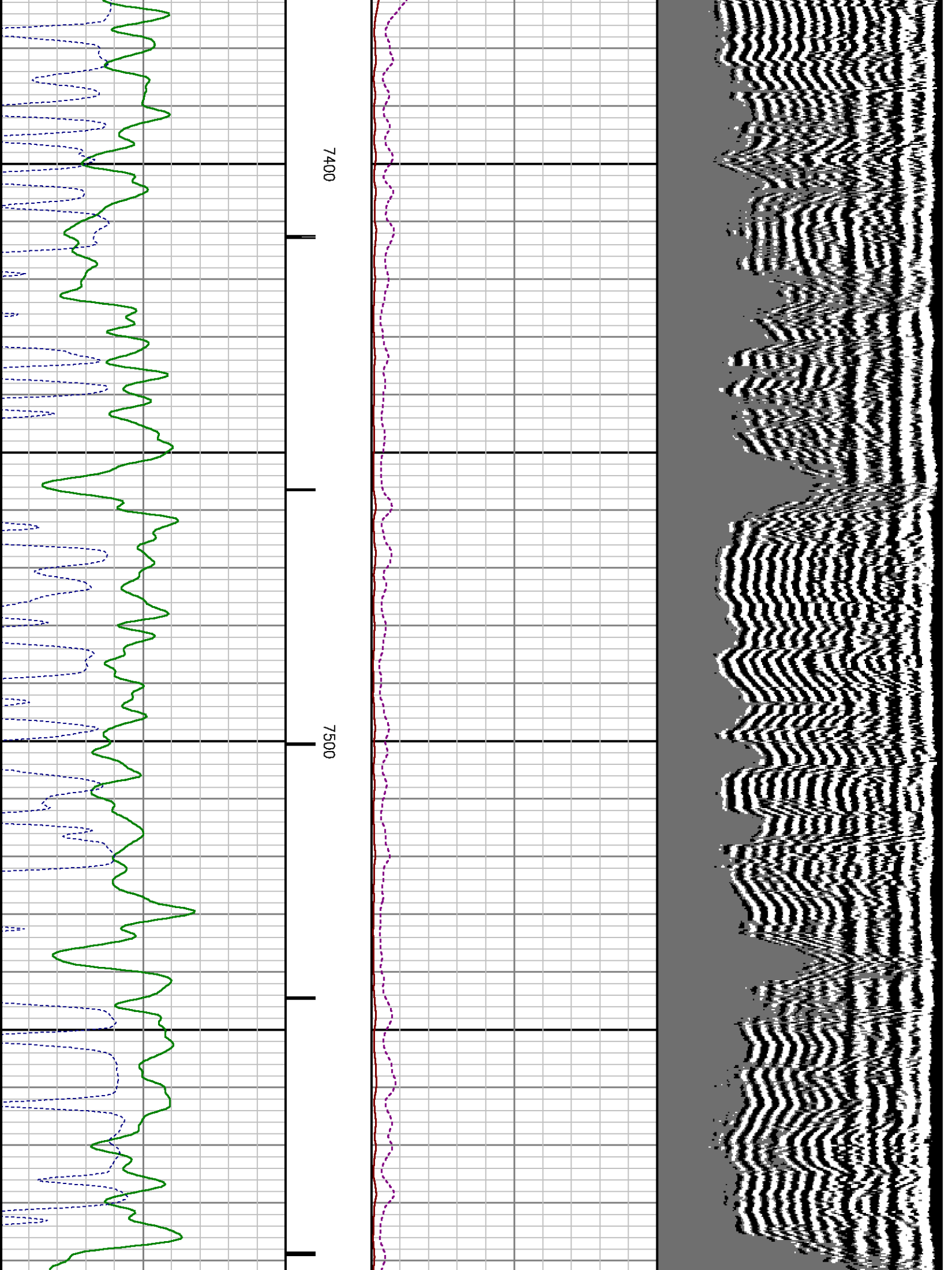


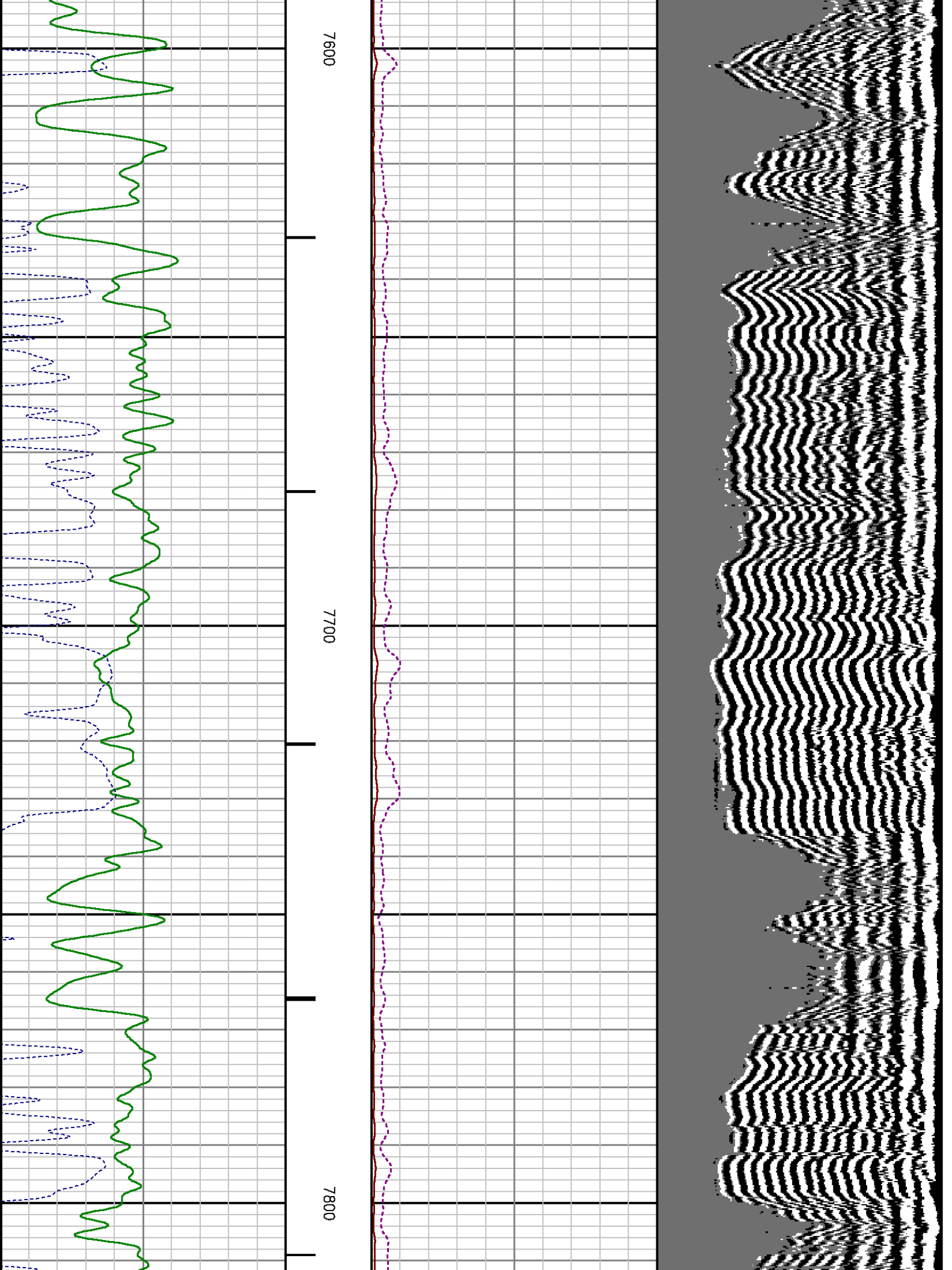


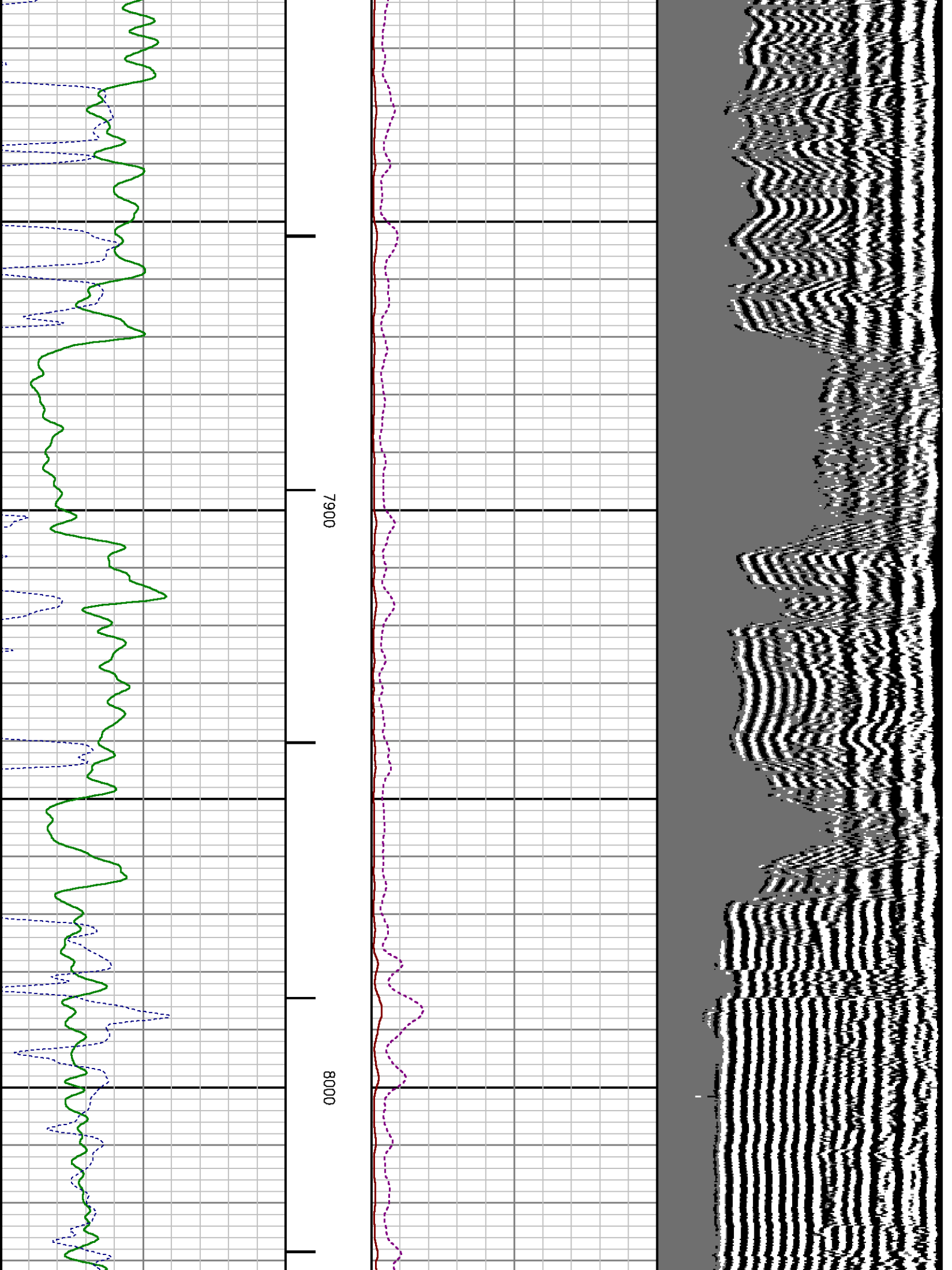


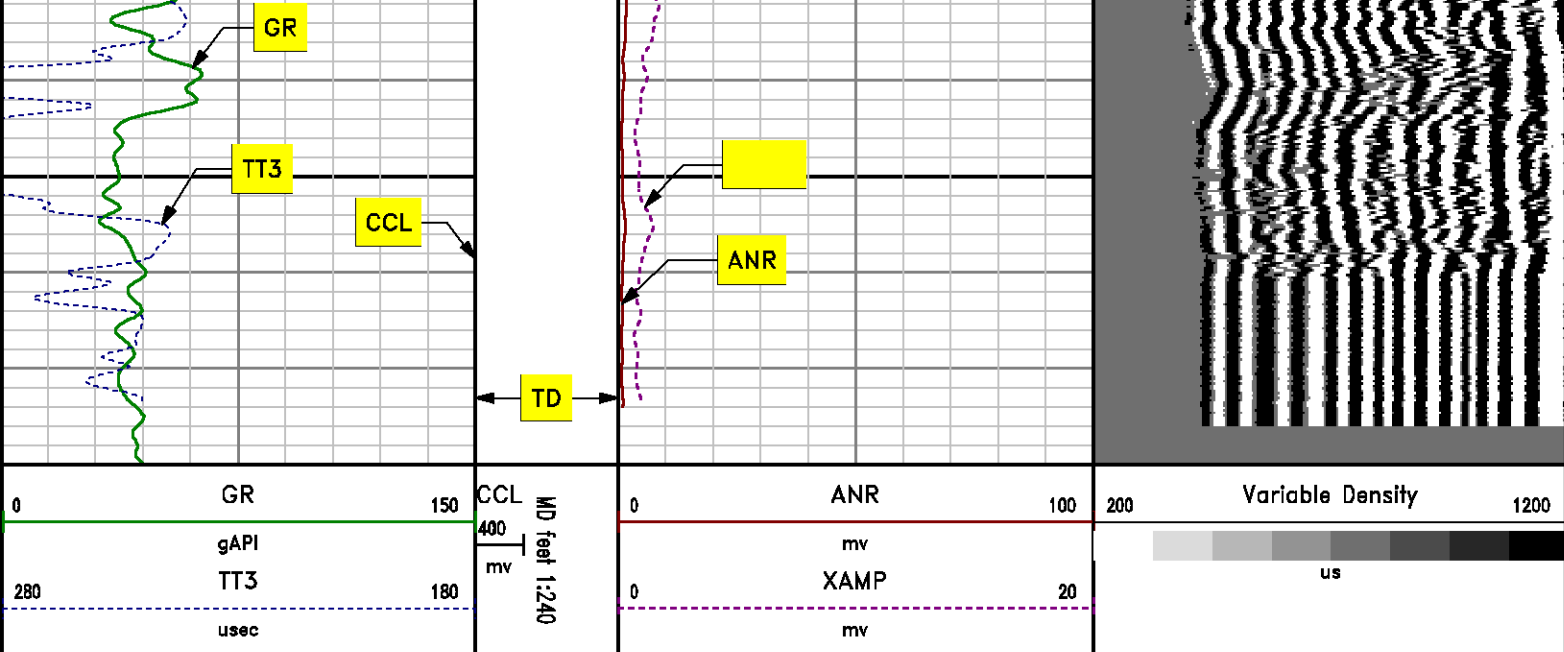












MAIN LOG SECONDARY PRESENTATION 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	u sec	23.098	8086.000
RAL	Amp Gate Start Near	196.061	u sec	23.098	8086.000
RAL	Amp Gate Start Radial	197.557	u sec	23.098	8086.000
RAL	Amp Gate Width Far	25.000	u sec	23.098	8086.000
RAL	Amp Gate Width Near	25.000	u sec	23.098	8086.000
RAL	Amp Gate Width Radial	25.000	u sec	23.098	8086.000
RAL	casing od	4.500	inches	23.098	8086.000
RAL	casing wt	11.600	lbm/ft	23.098	8086.000
RAL	FB Start Far	291.900	u sec	23.098	8086.000
RAL	FB Start Near	175.391	u sec	23.098	8086.000
RAL	FB Start Radial	175.391	u sec	23.098	8086.000
RAL	FB Thresh Far	10.000	mv	23.098	8086.000
RAL	FB Thresh Near	4.000	mv	23.098	8086.000
RAL	FB Thresh Radial	4.000	mv	23.098	8086.000
RAL	Fluid Travel Time	200.000	u sec/ft	23.098	8085.941

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

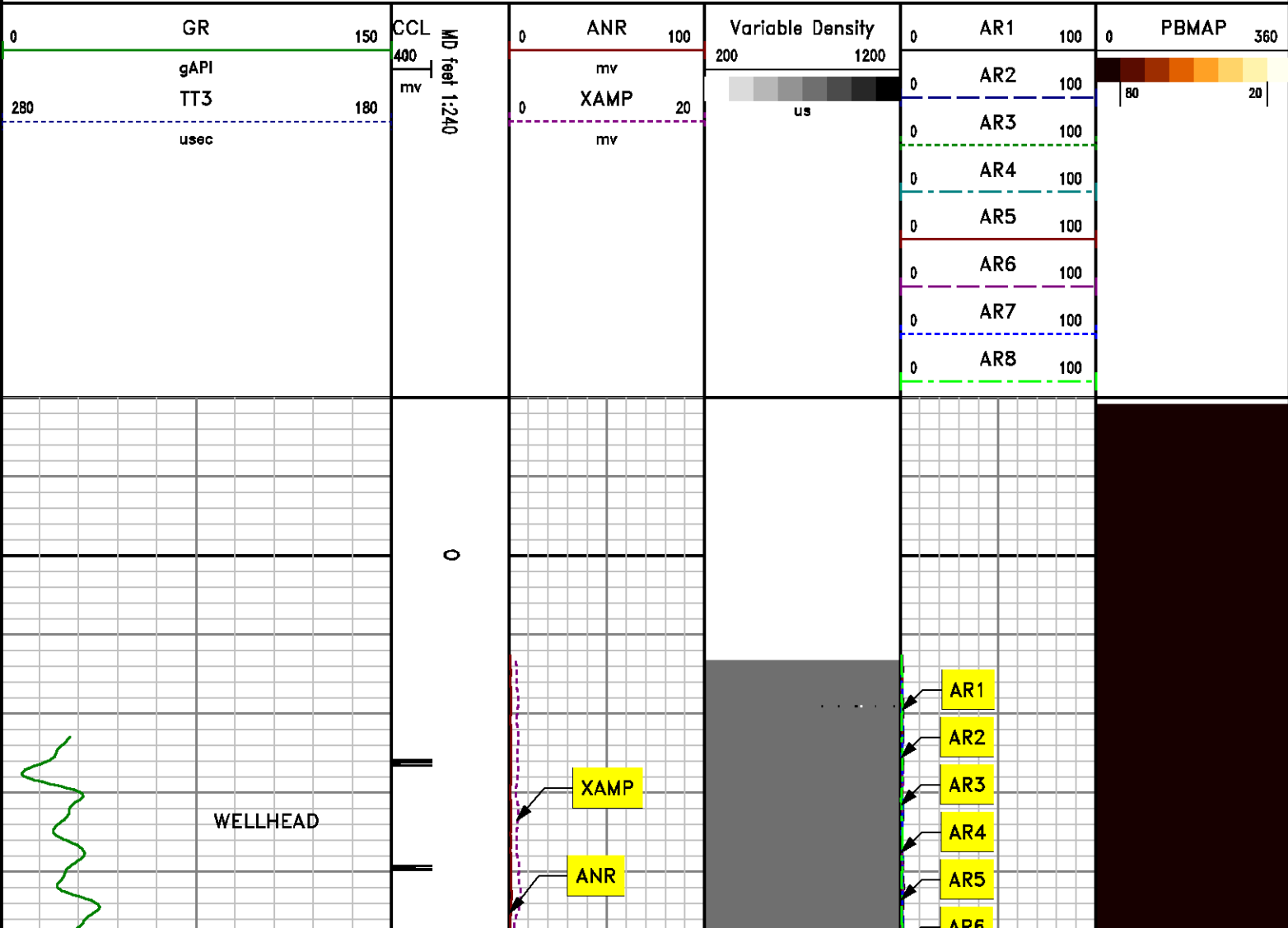
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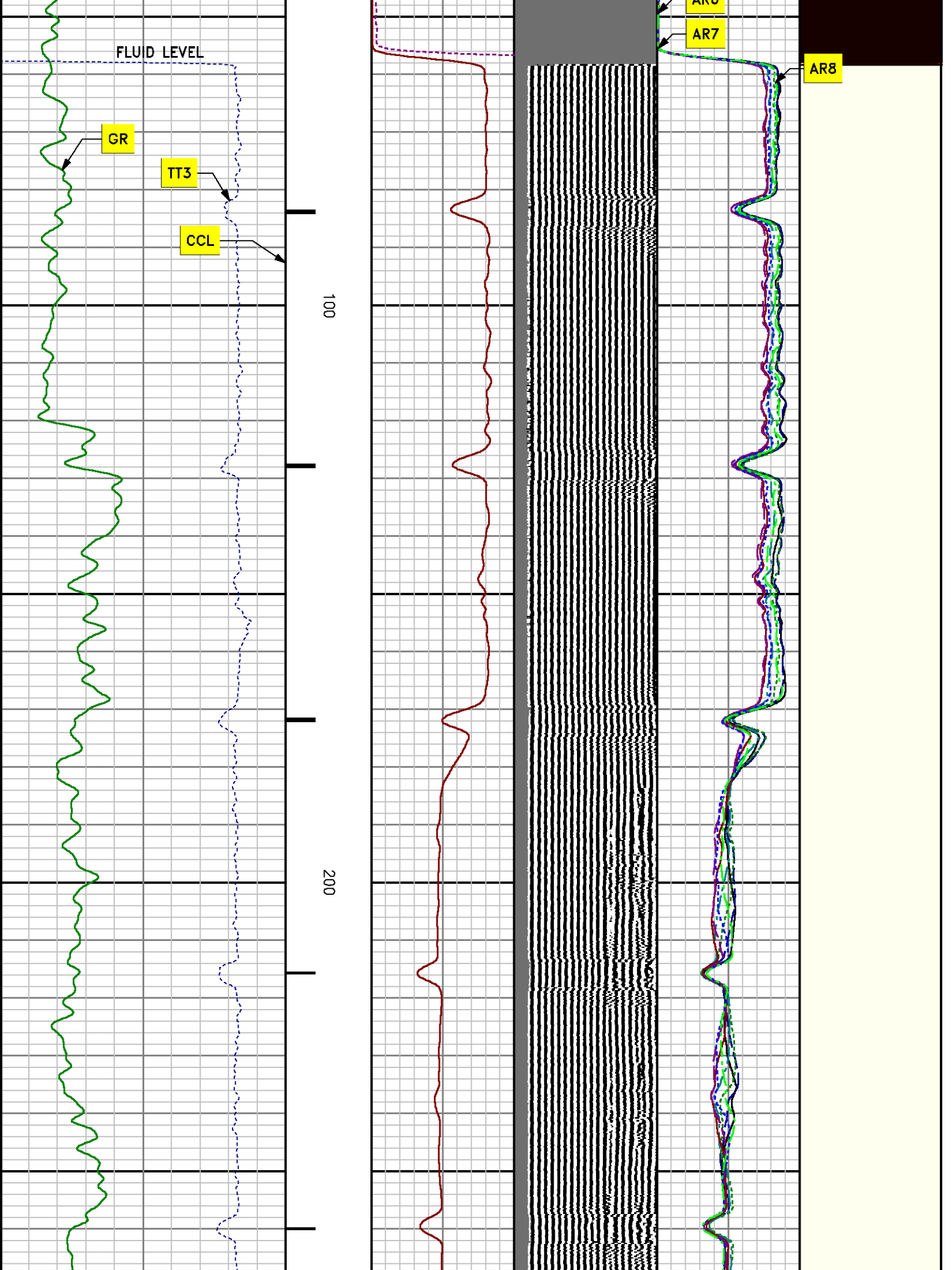
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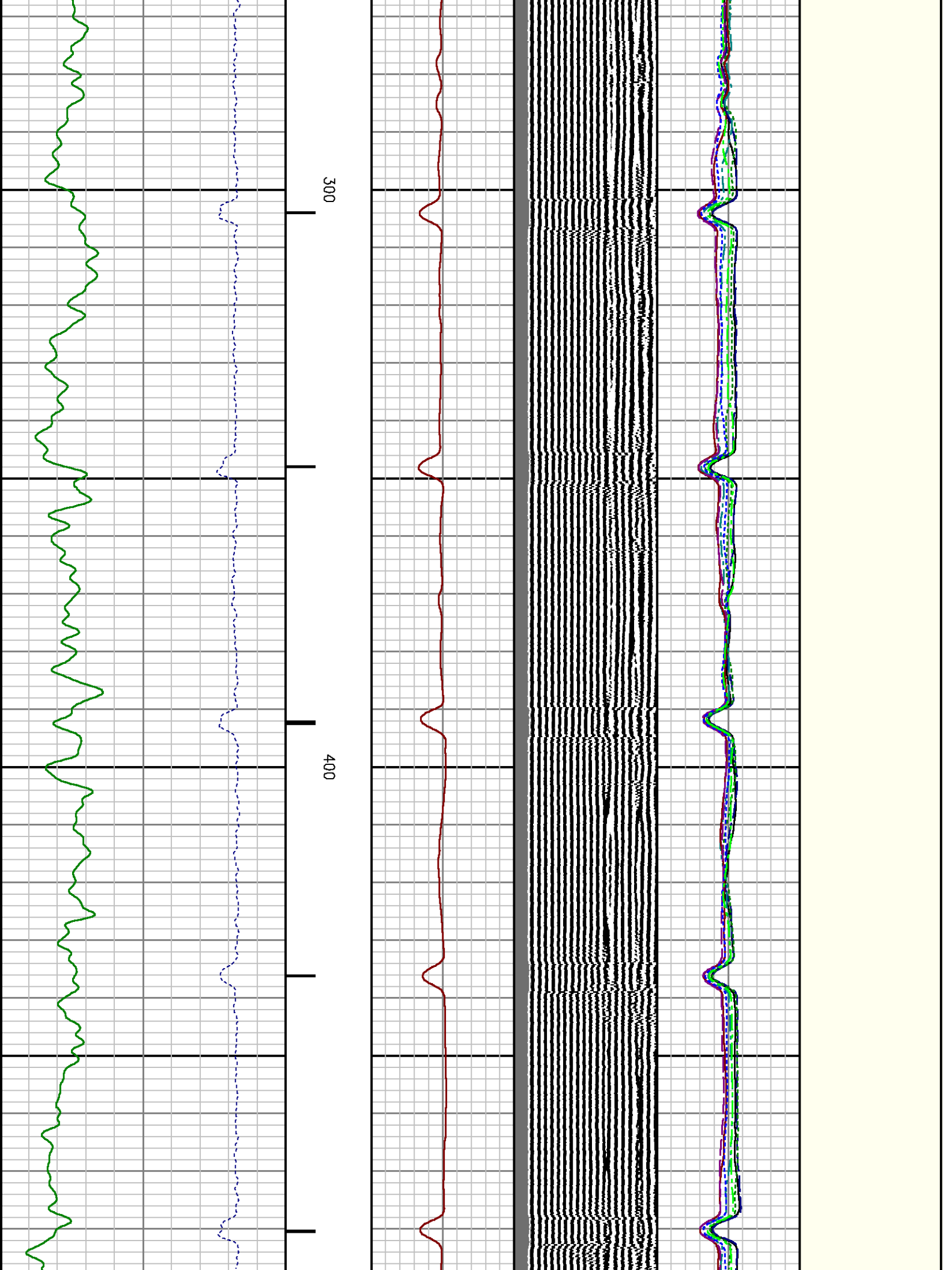
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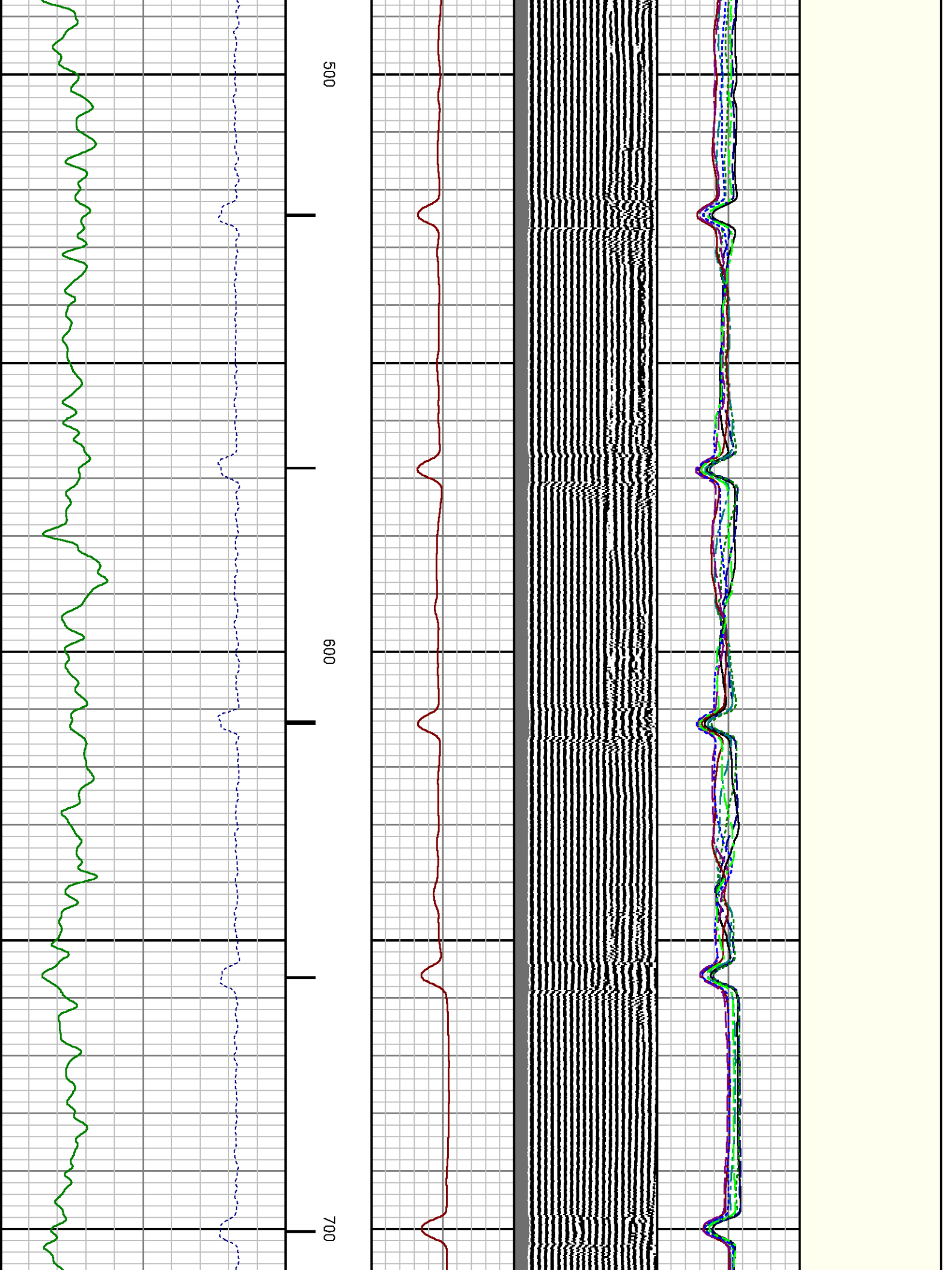
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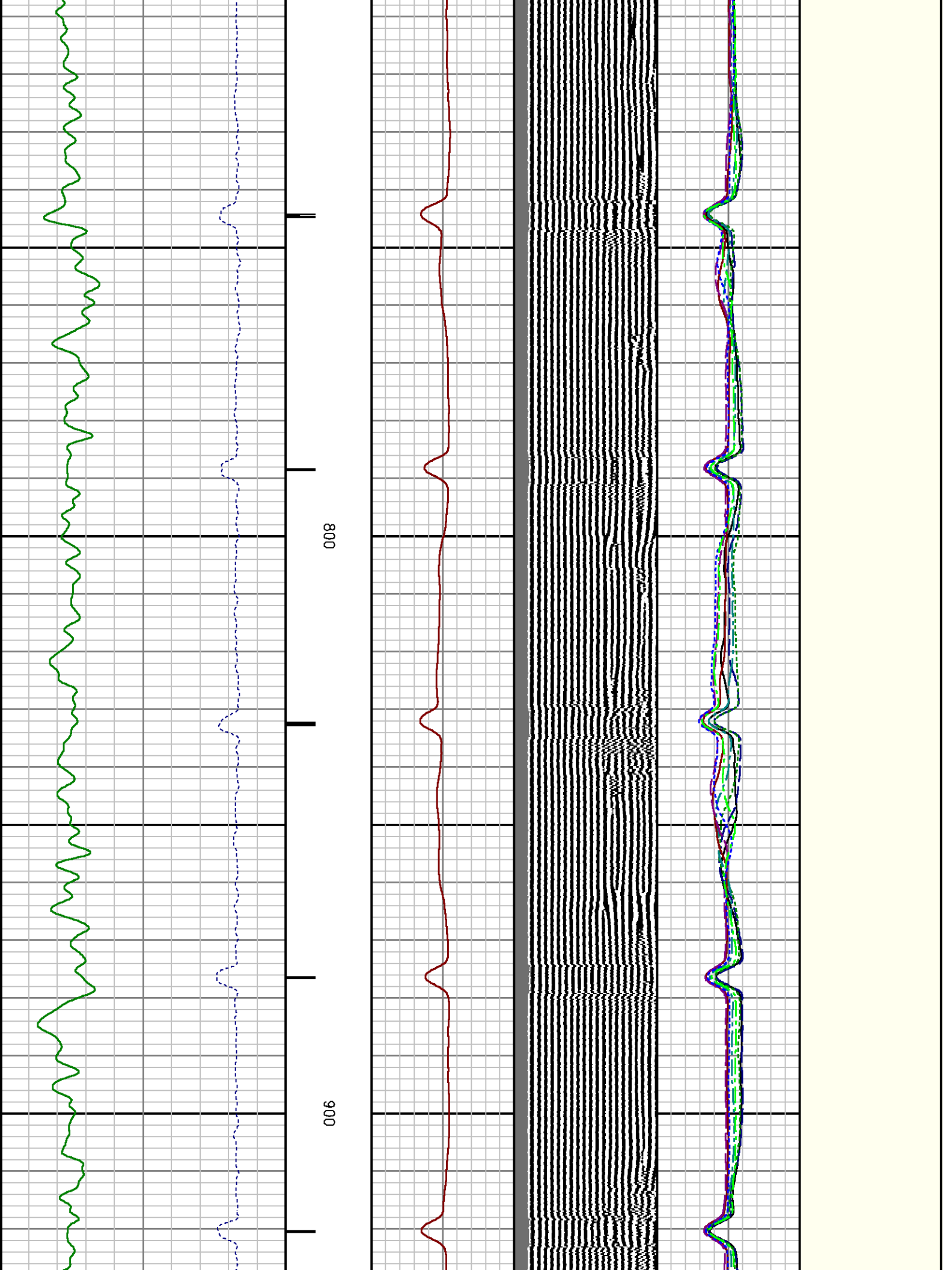
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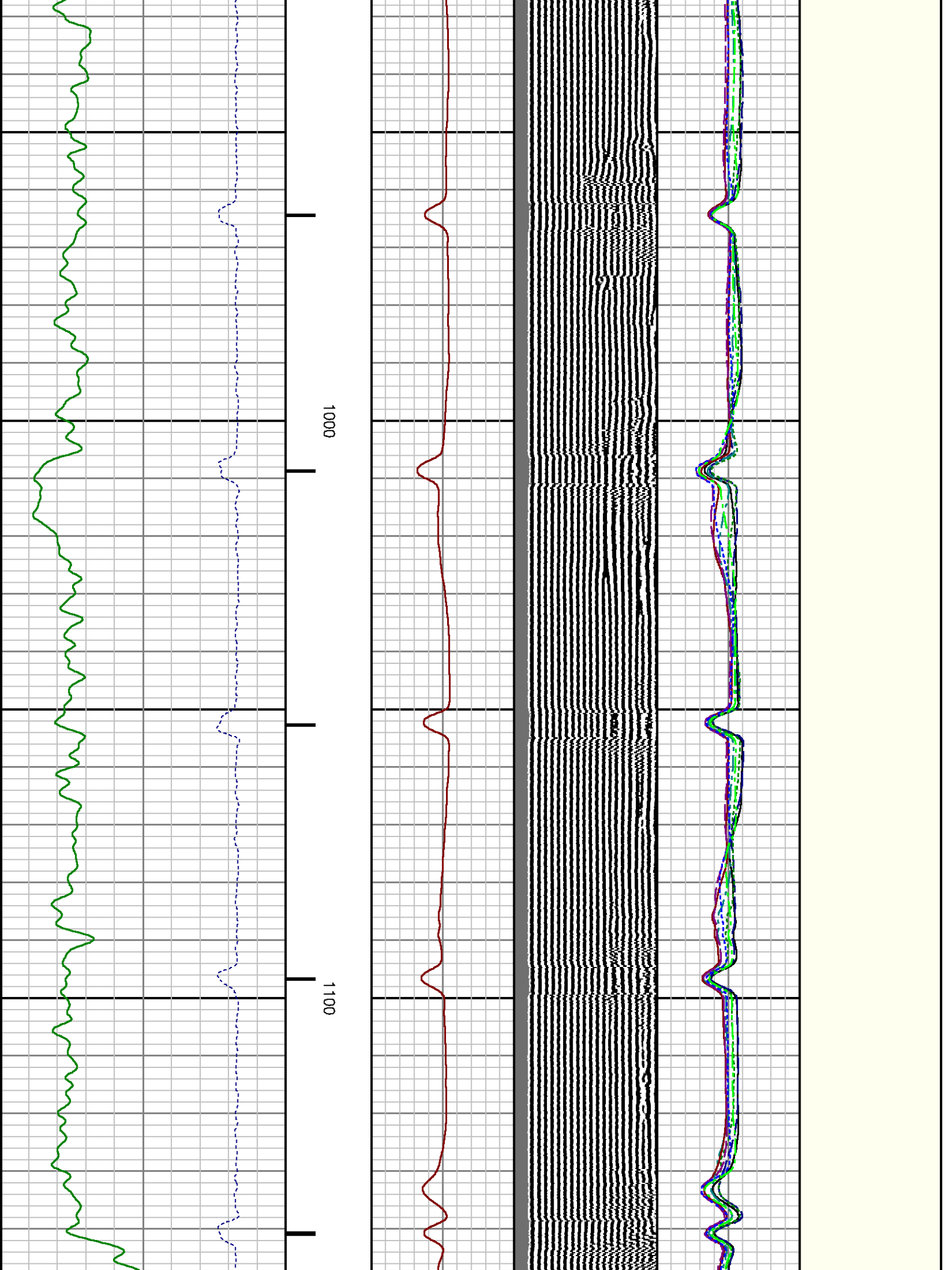


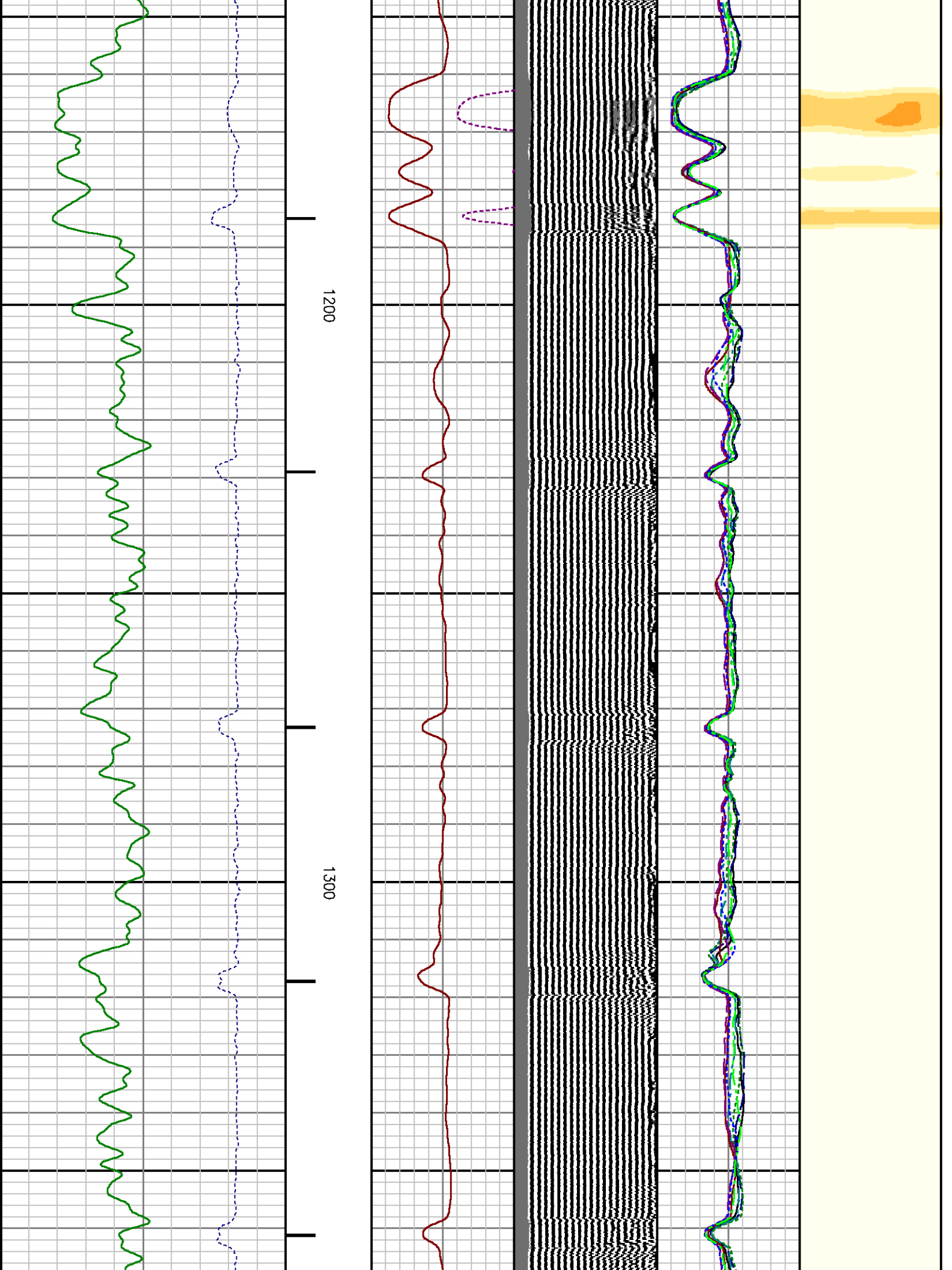


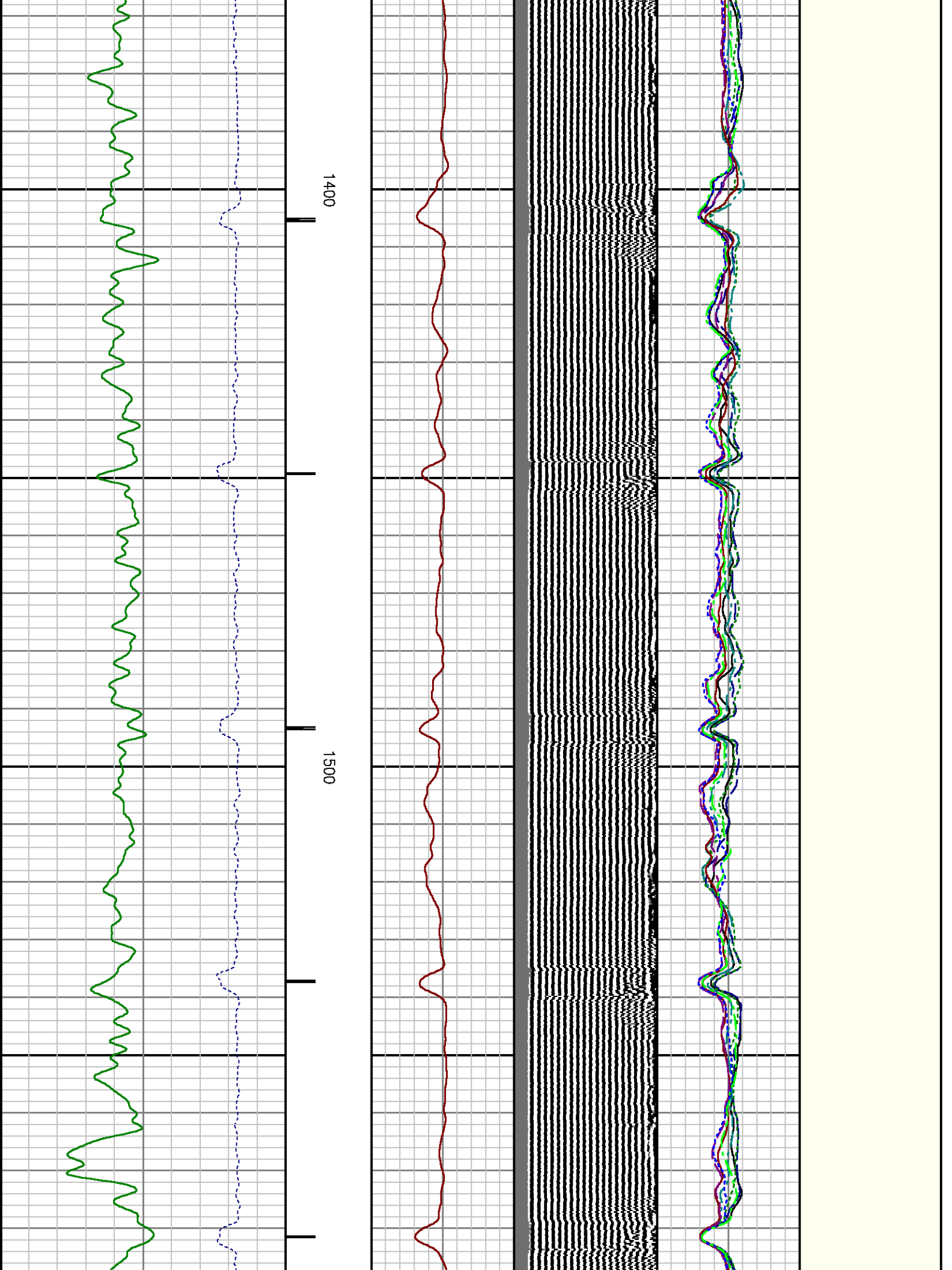


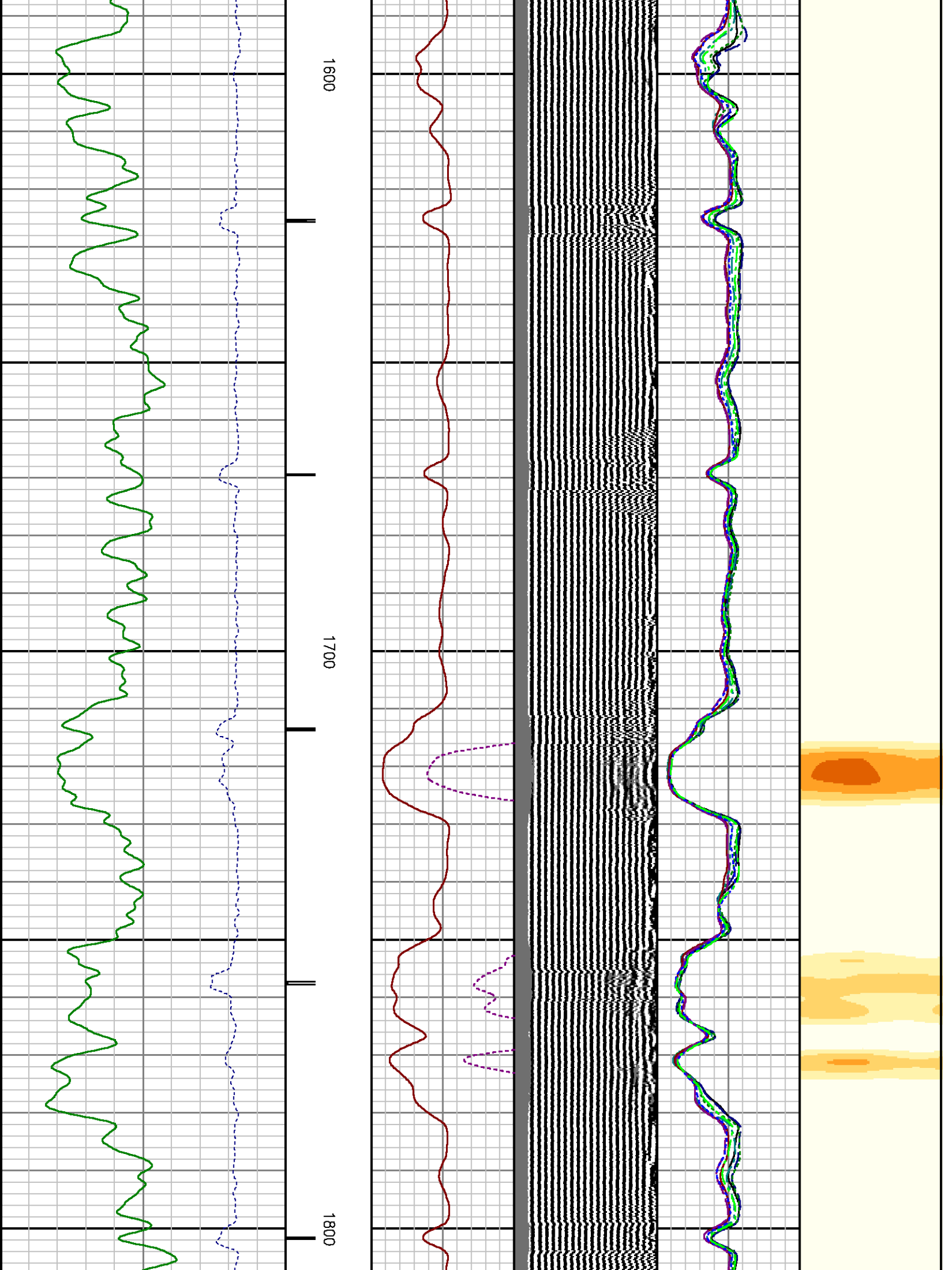


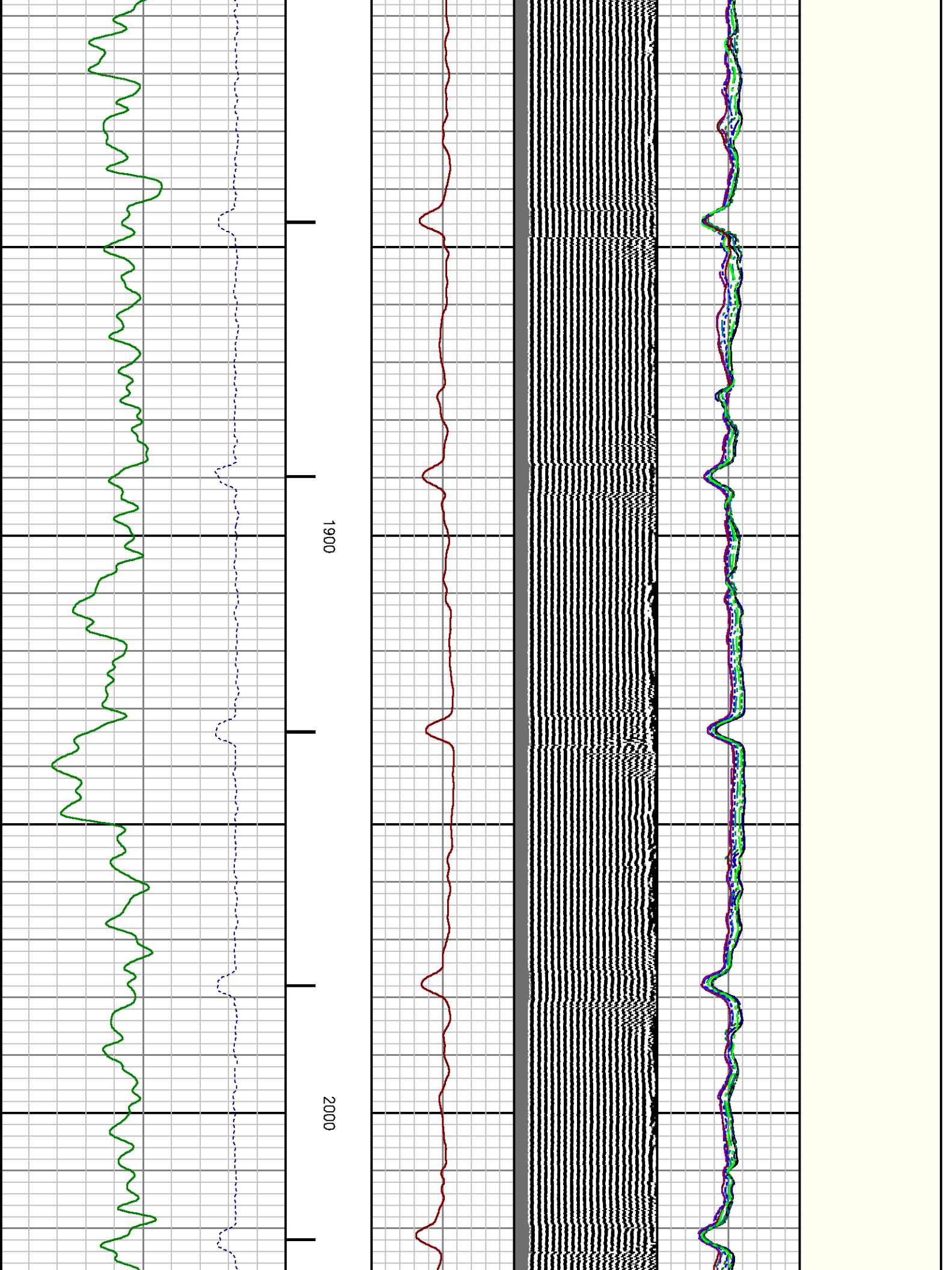


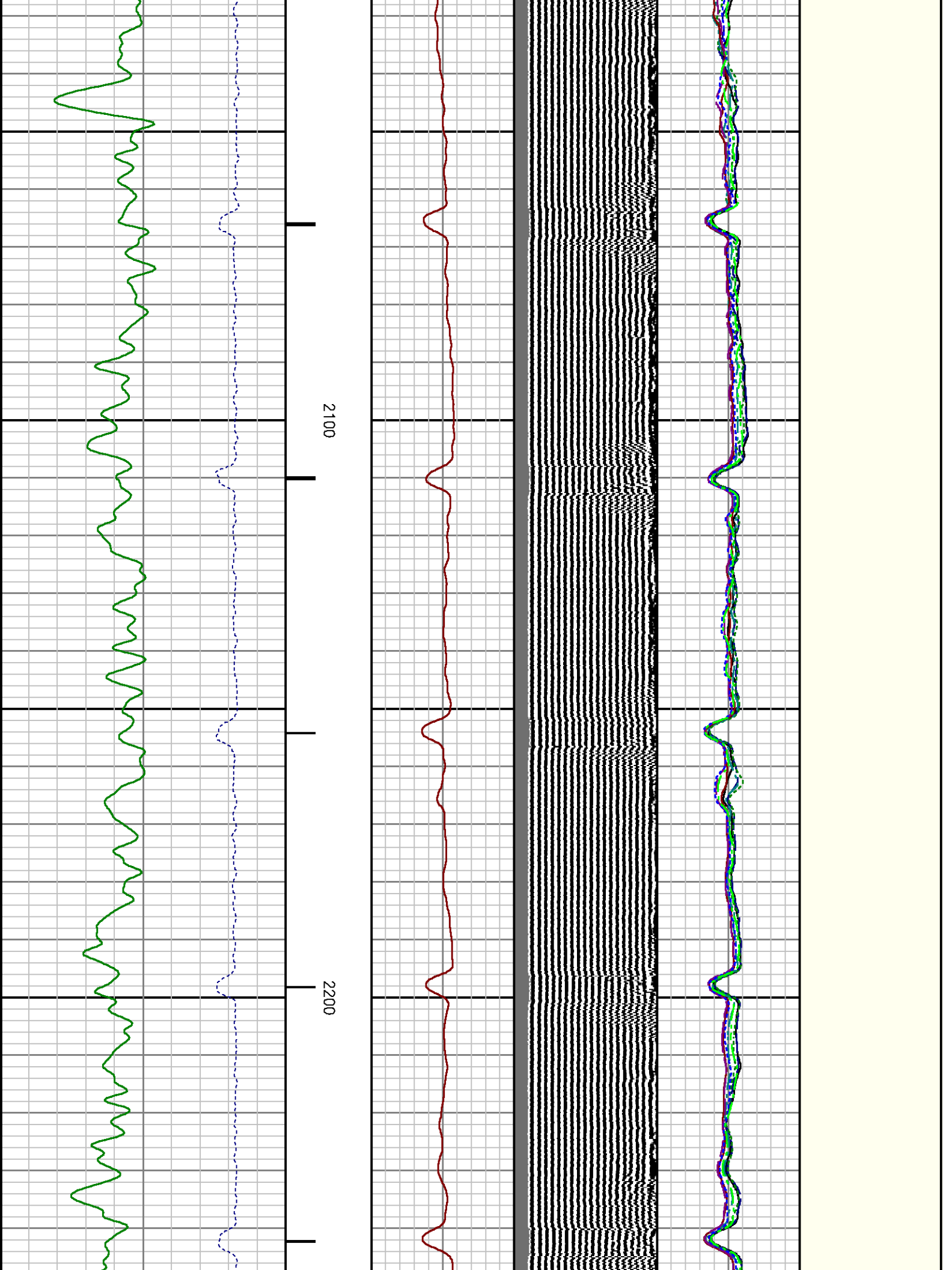


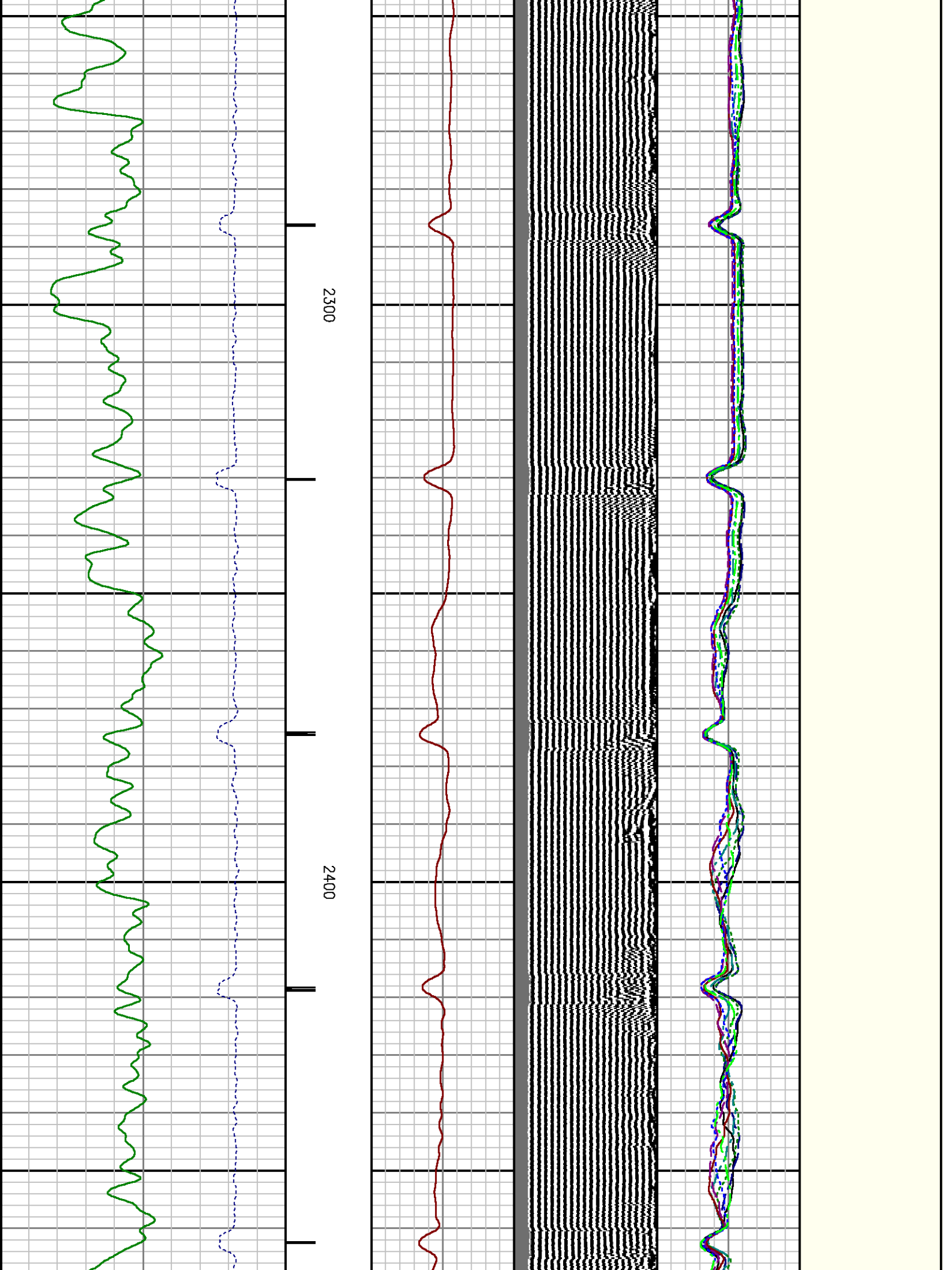


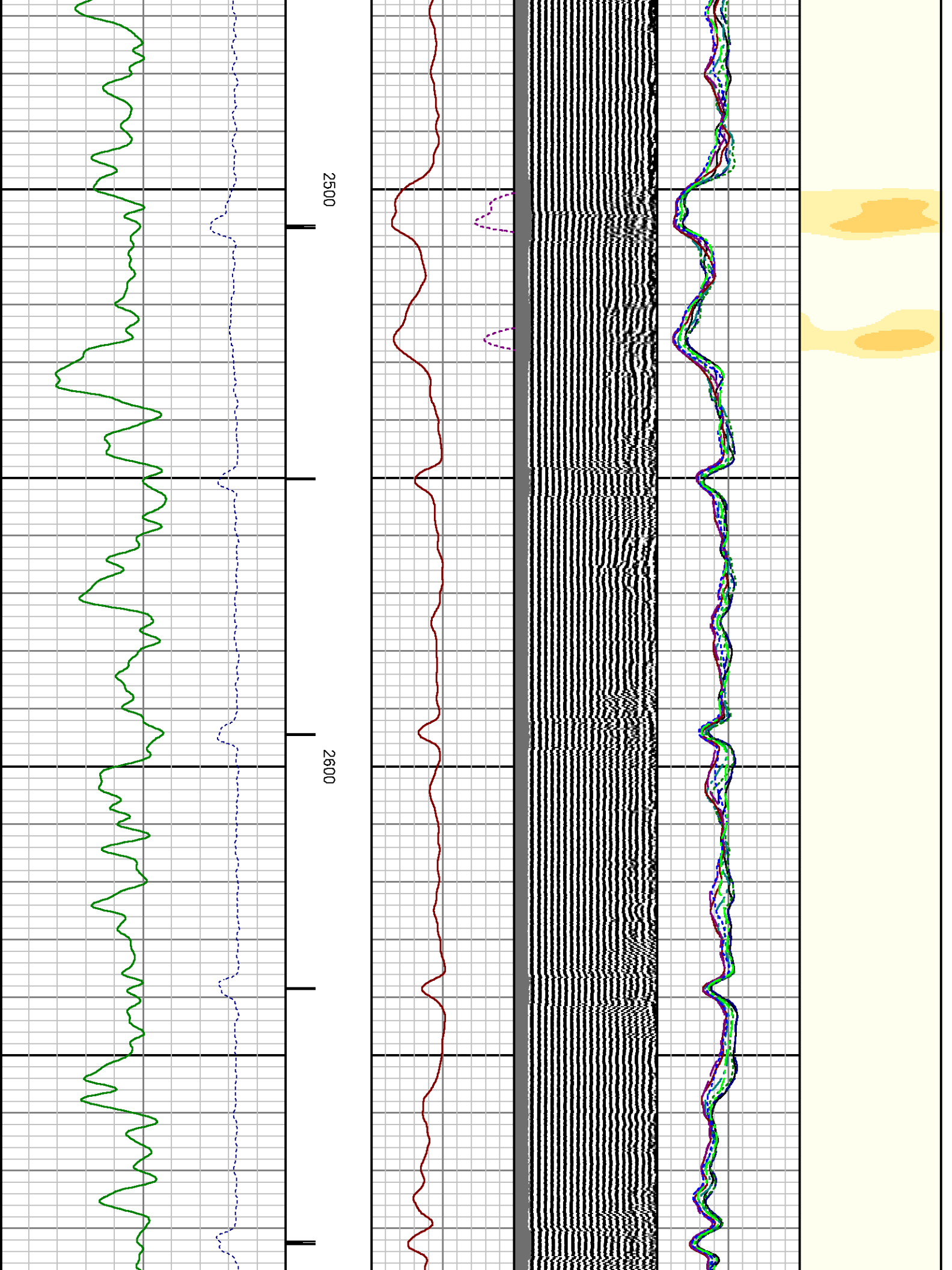


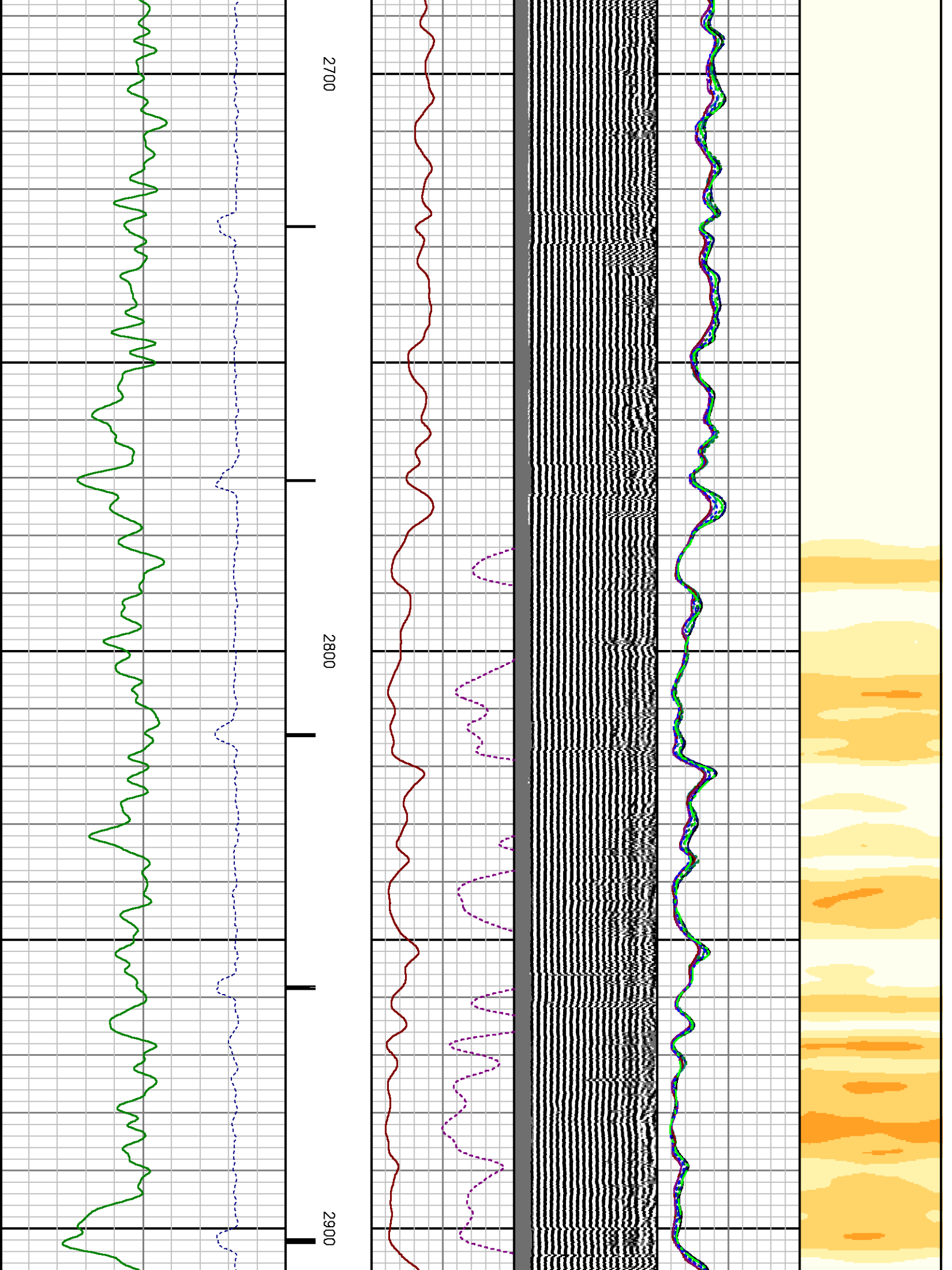


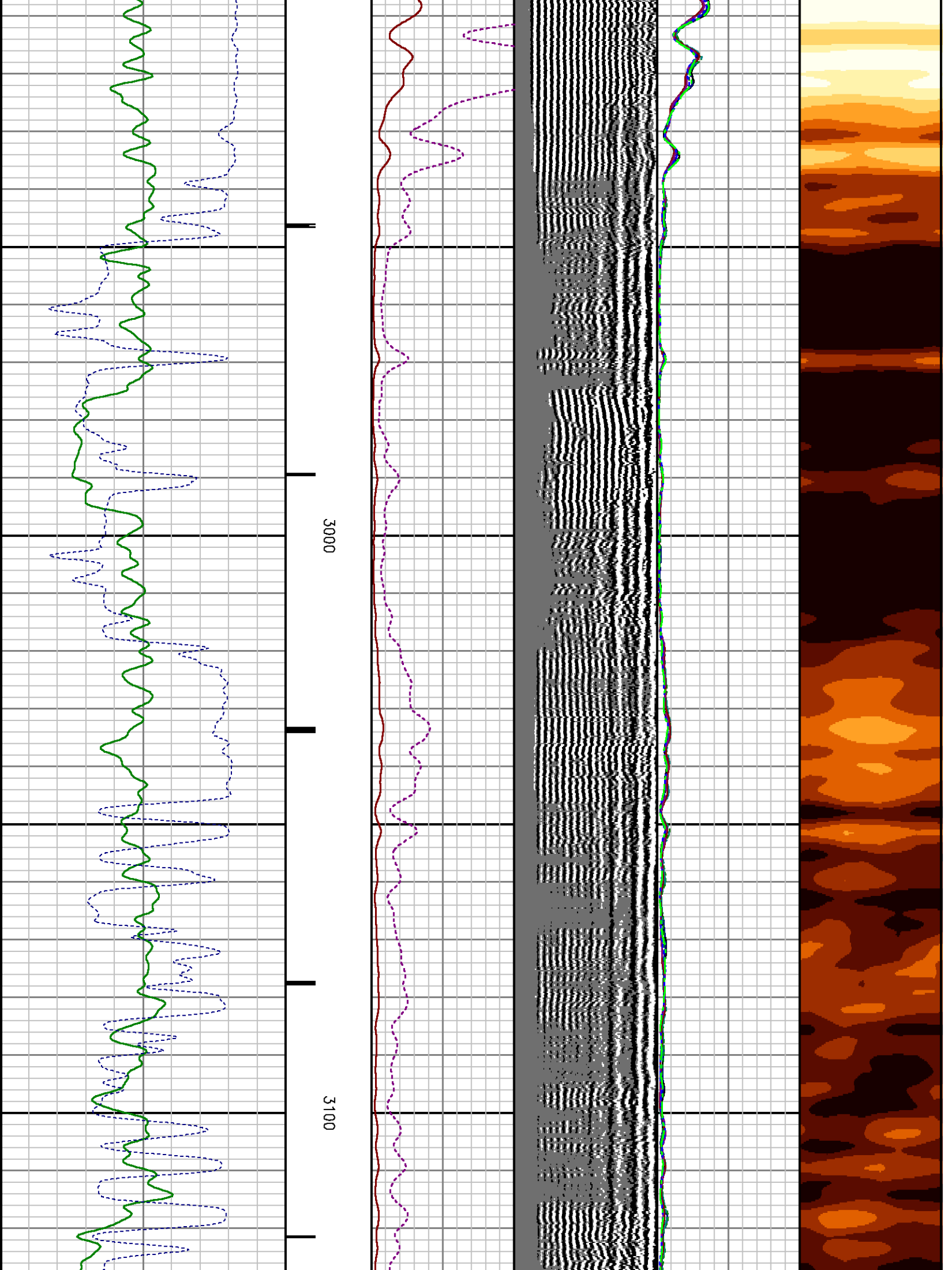


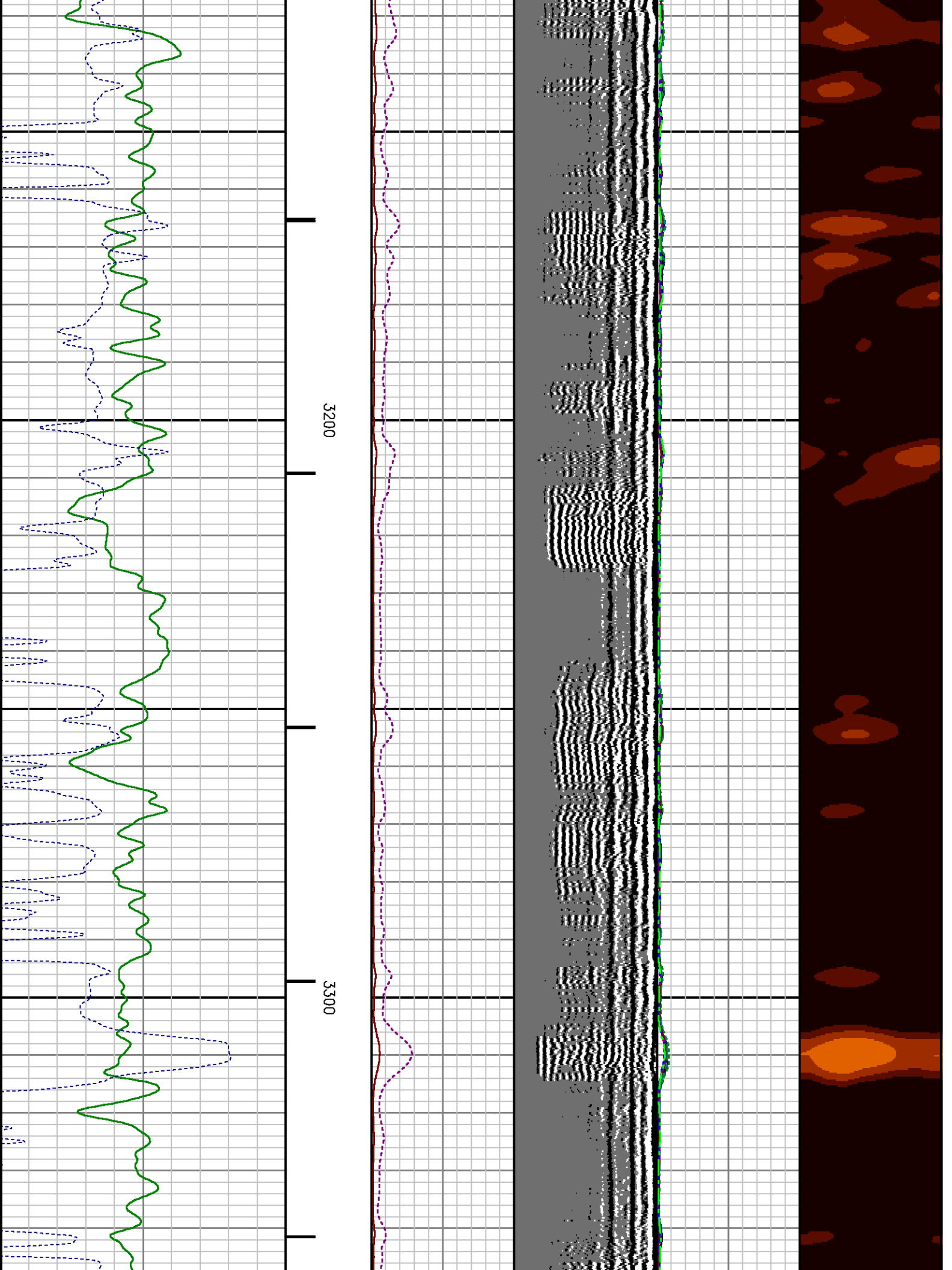


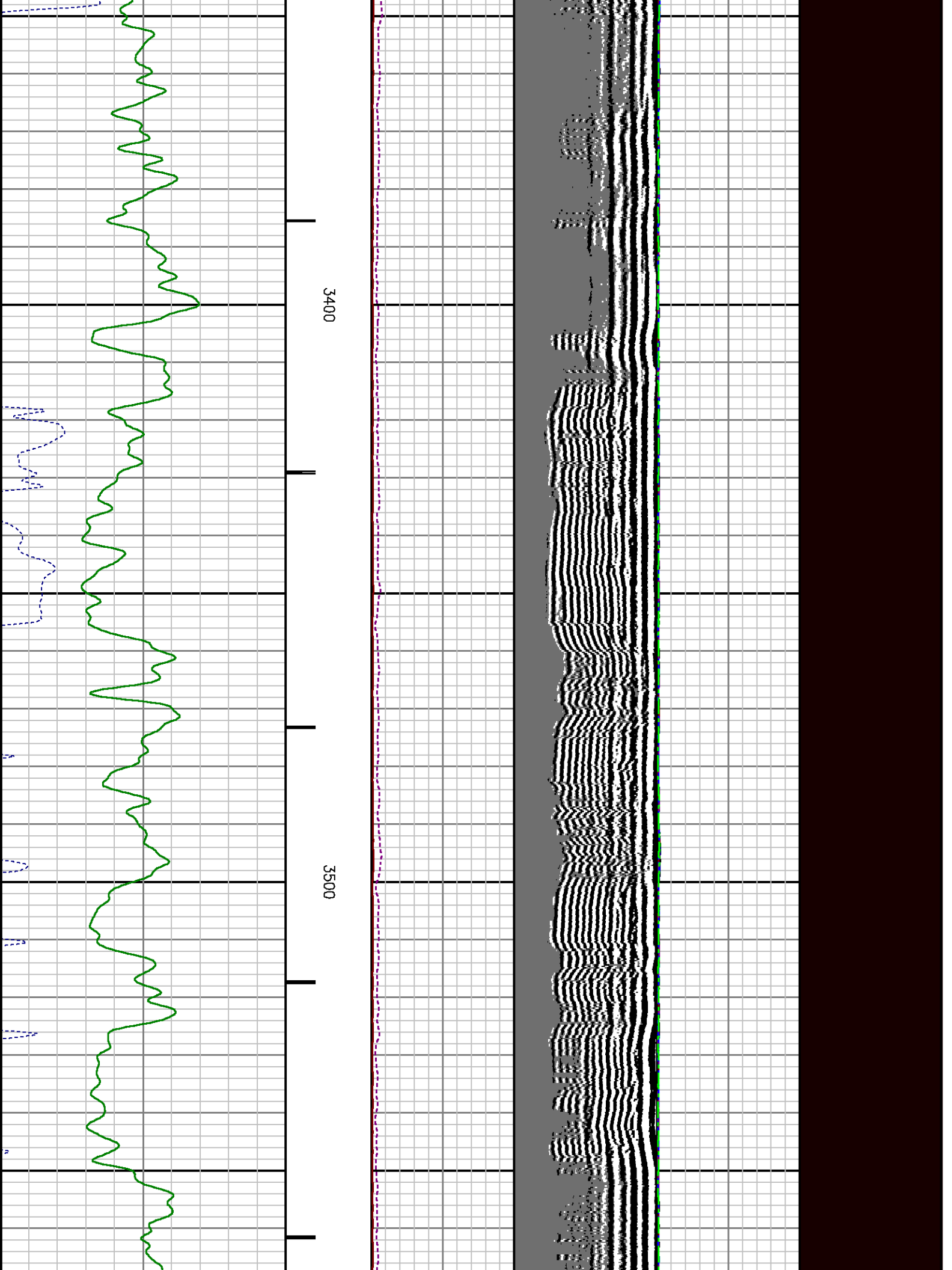


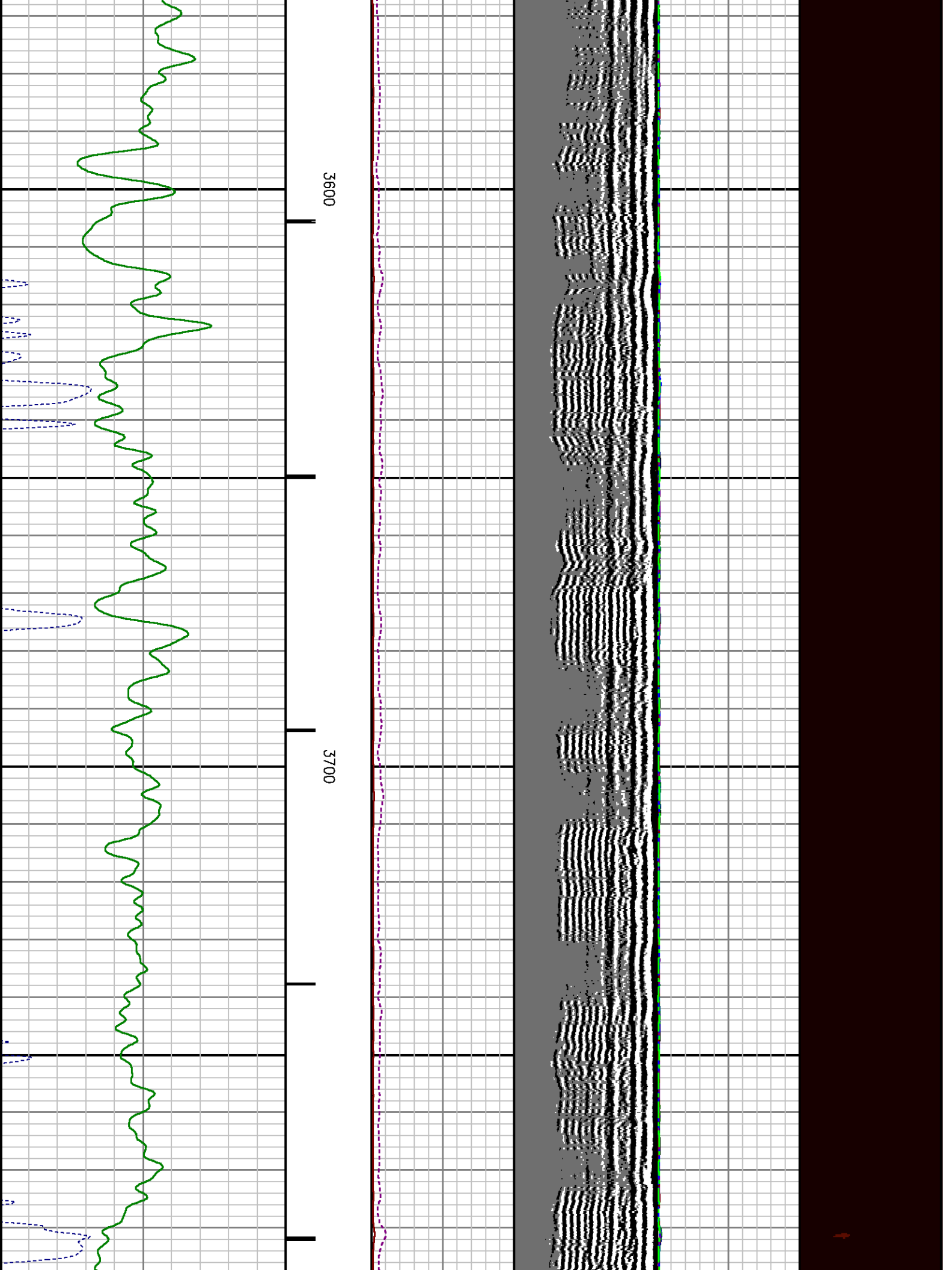


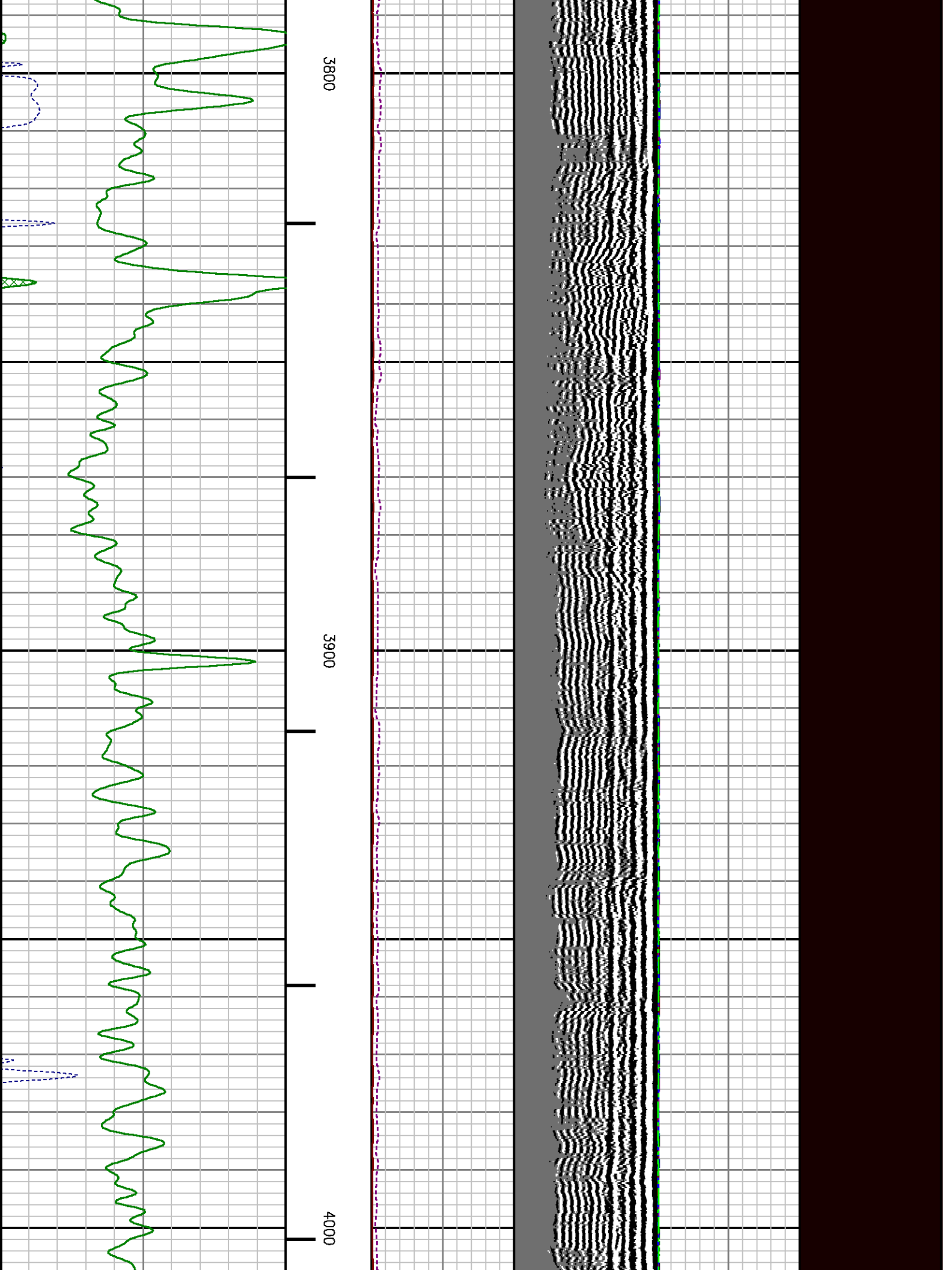


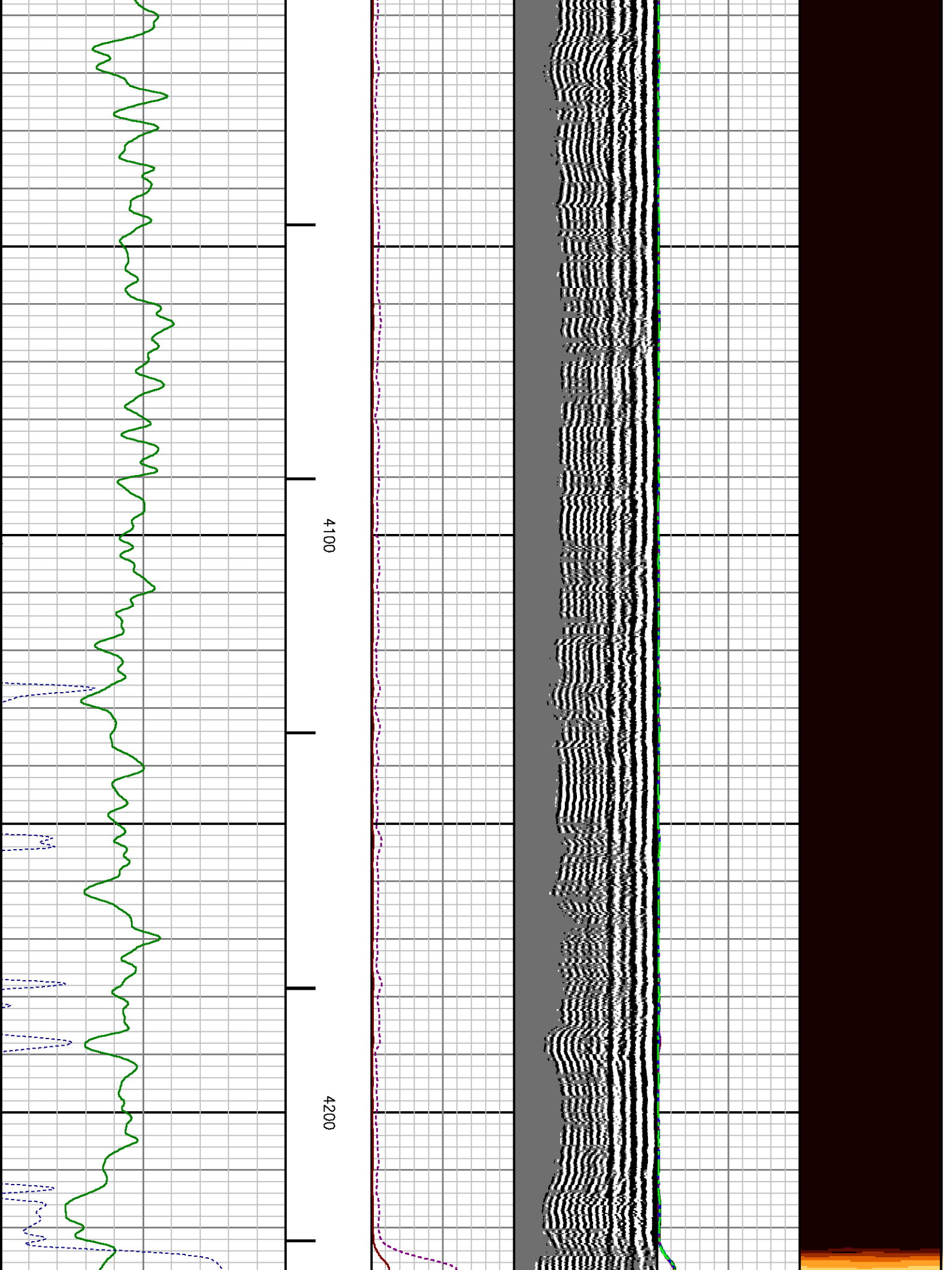


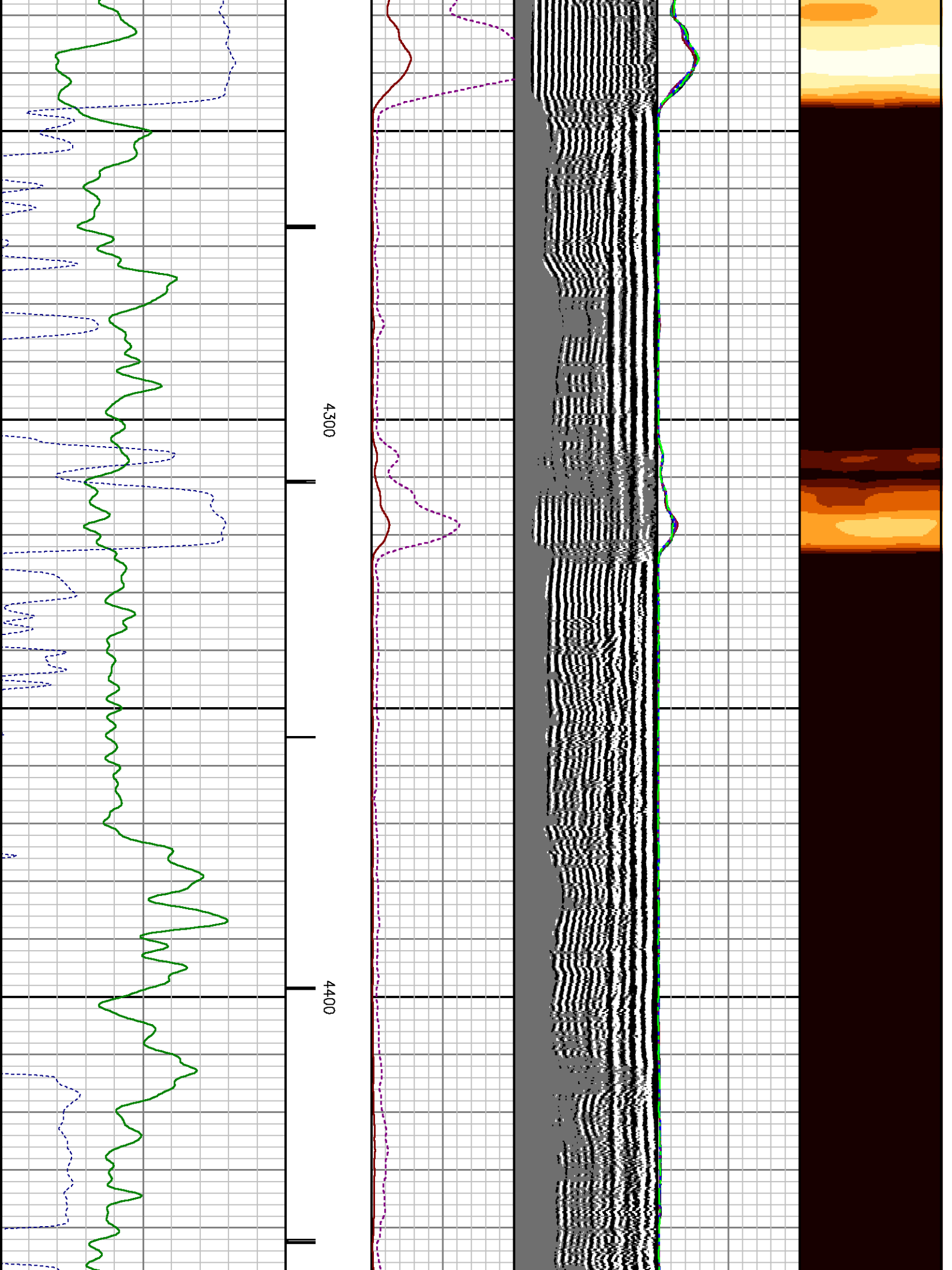


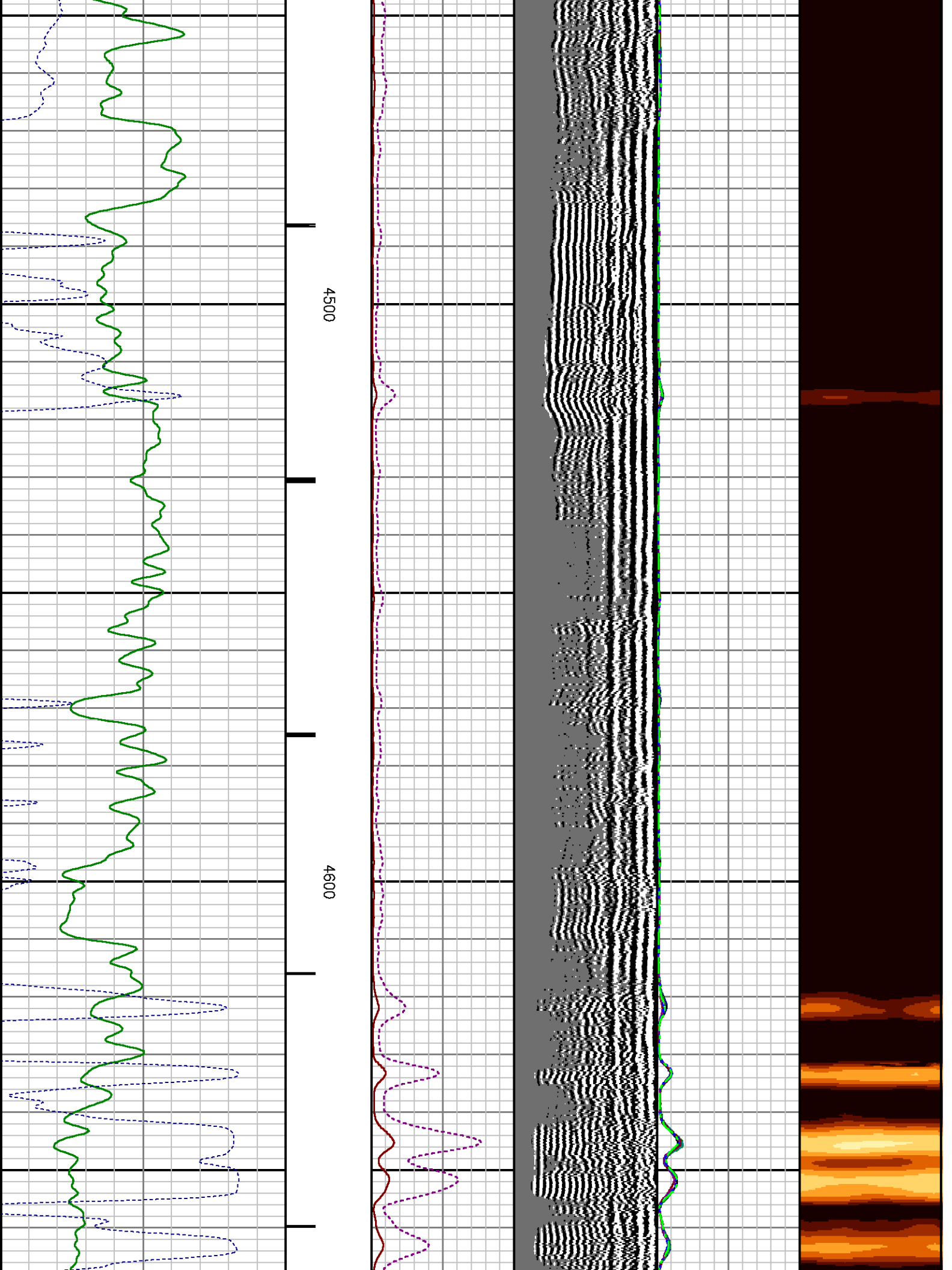


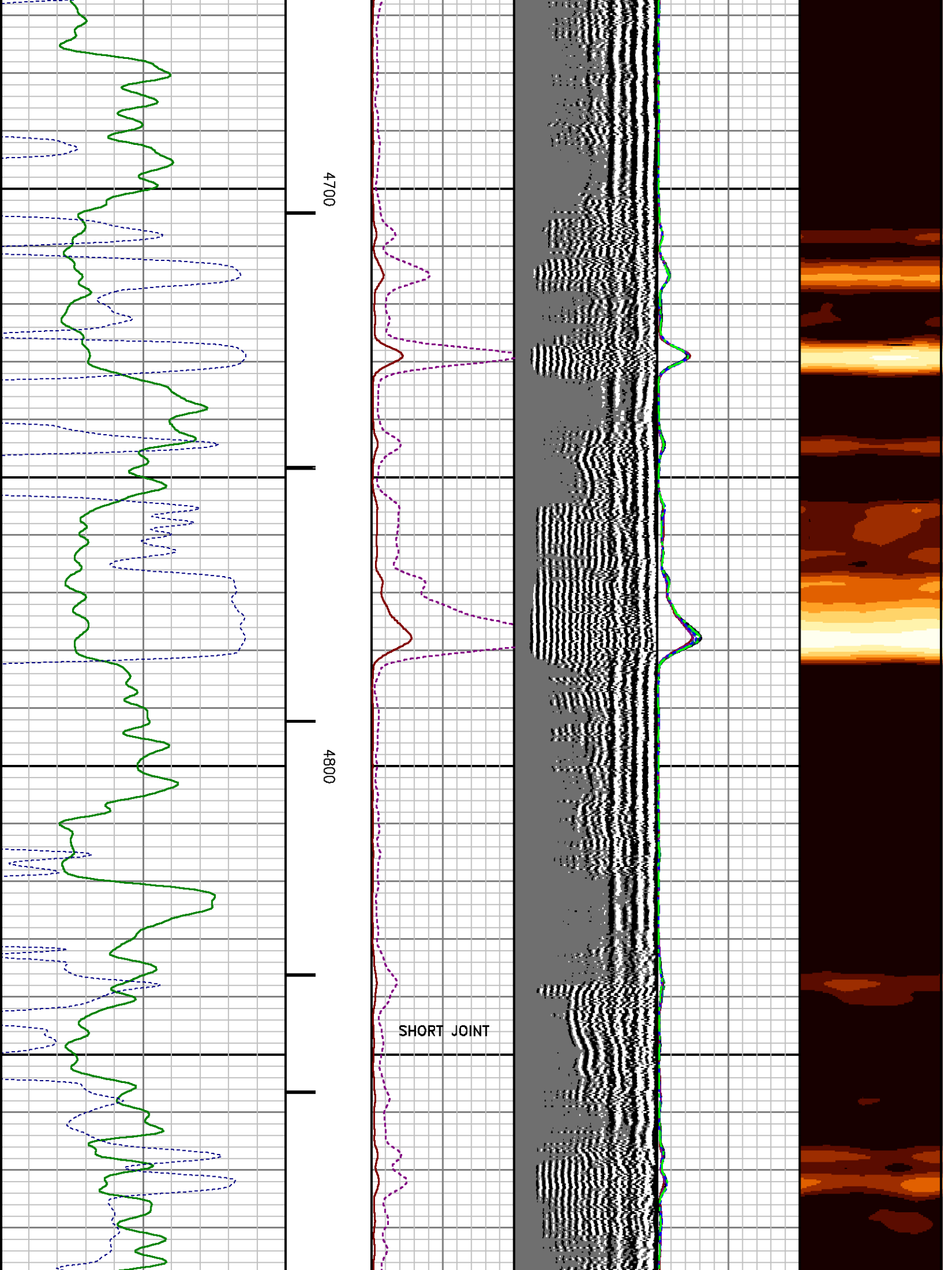


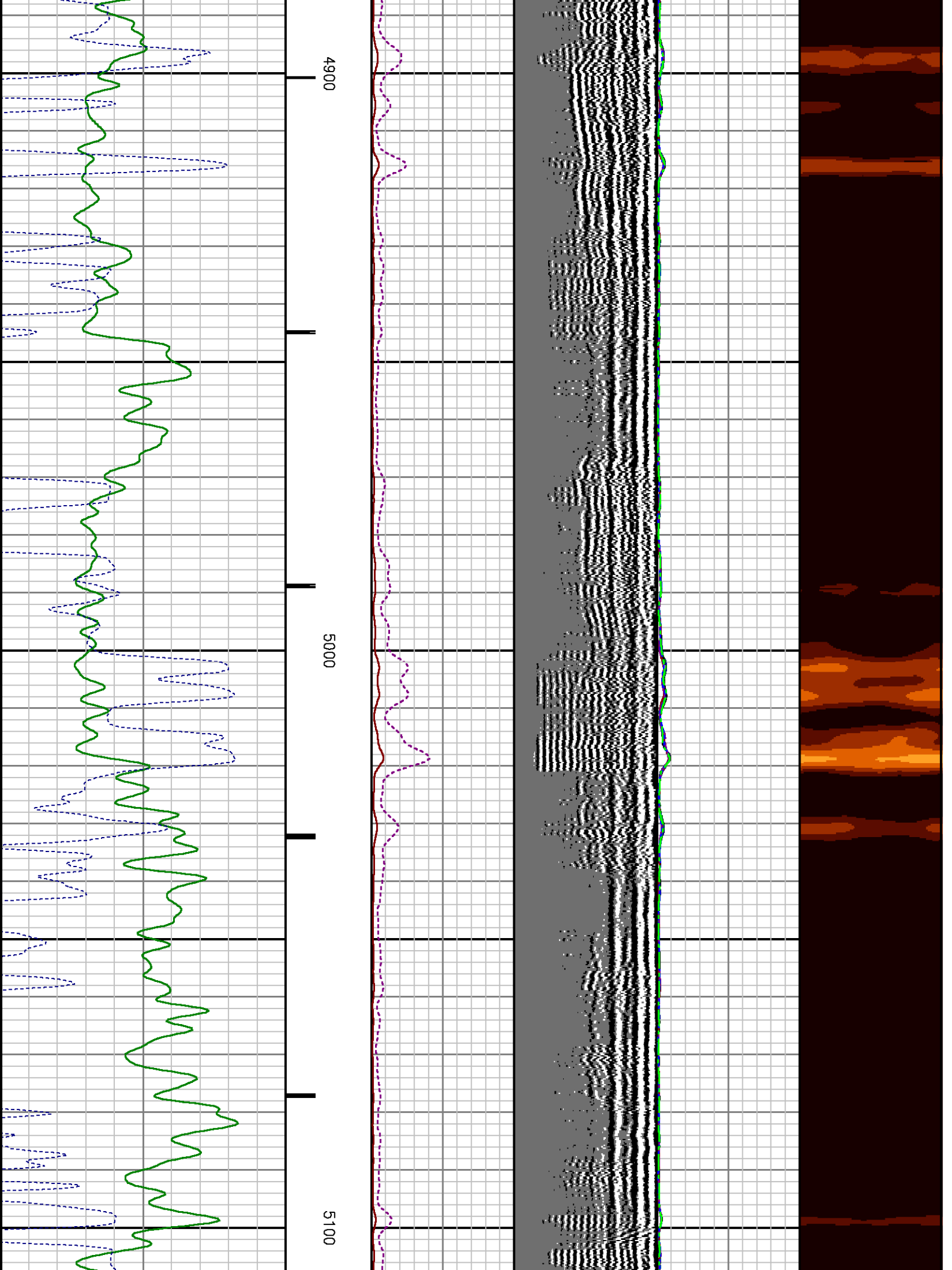


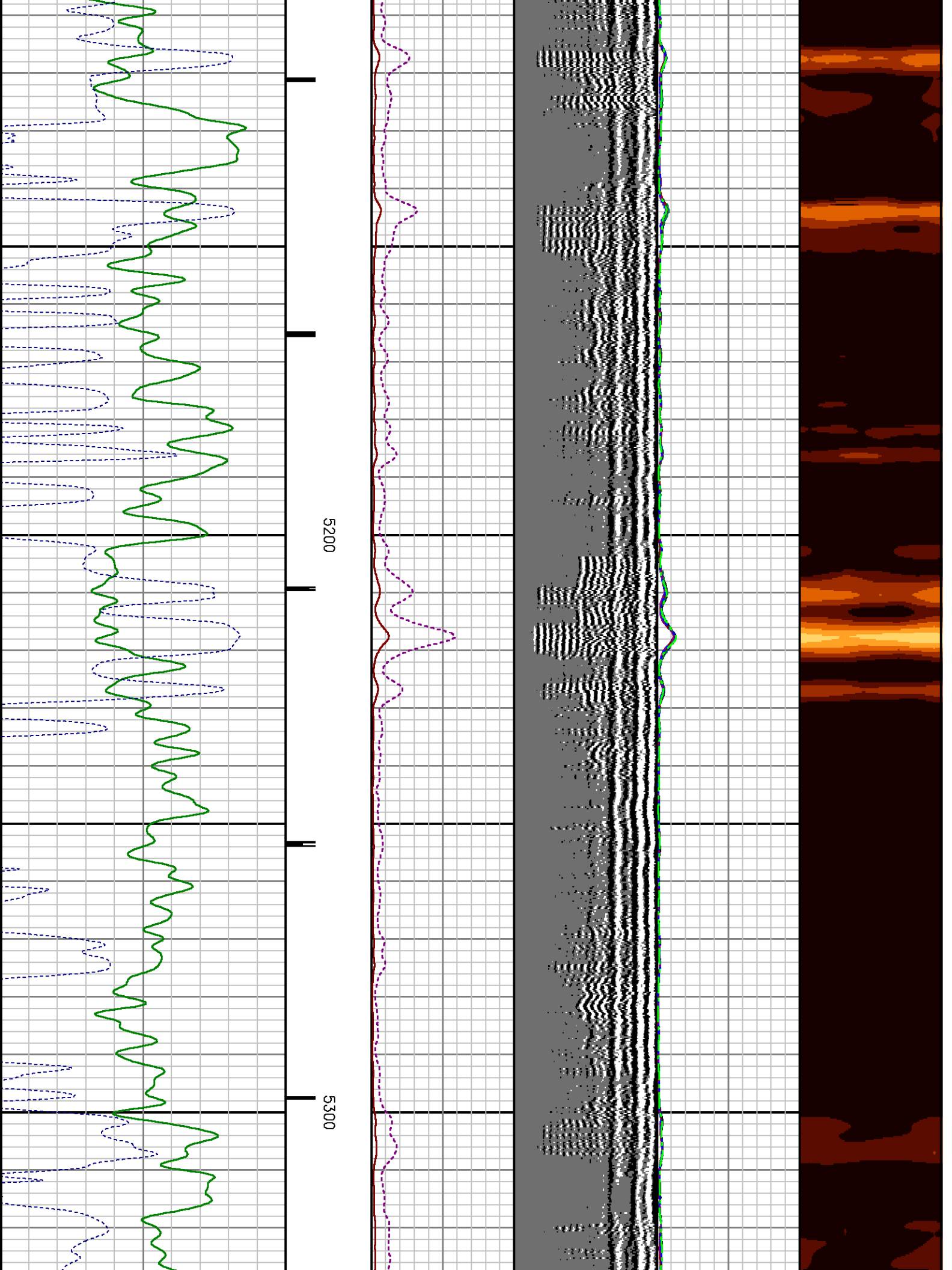


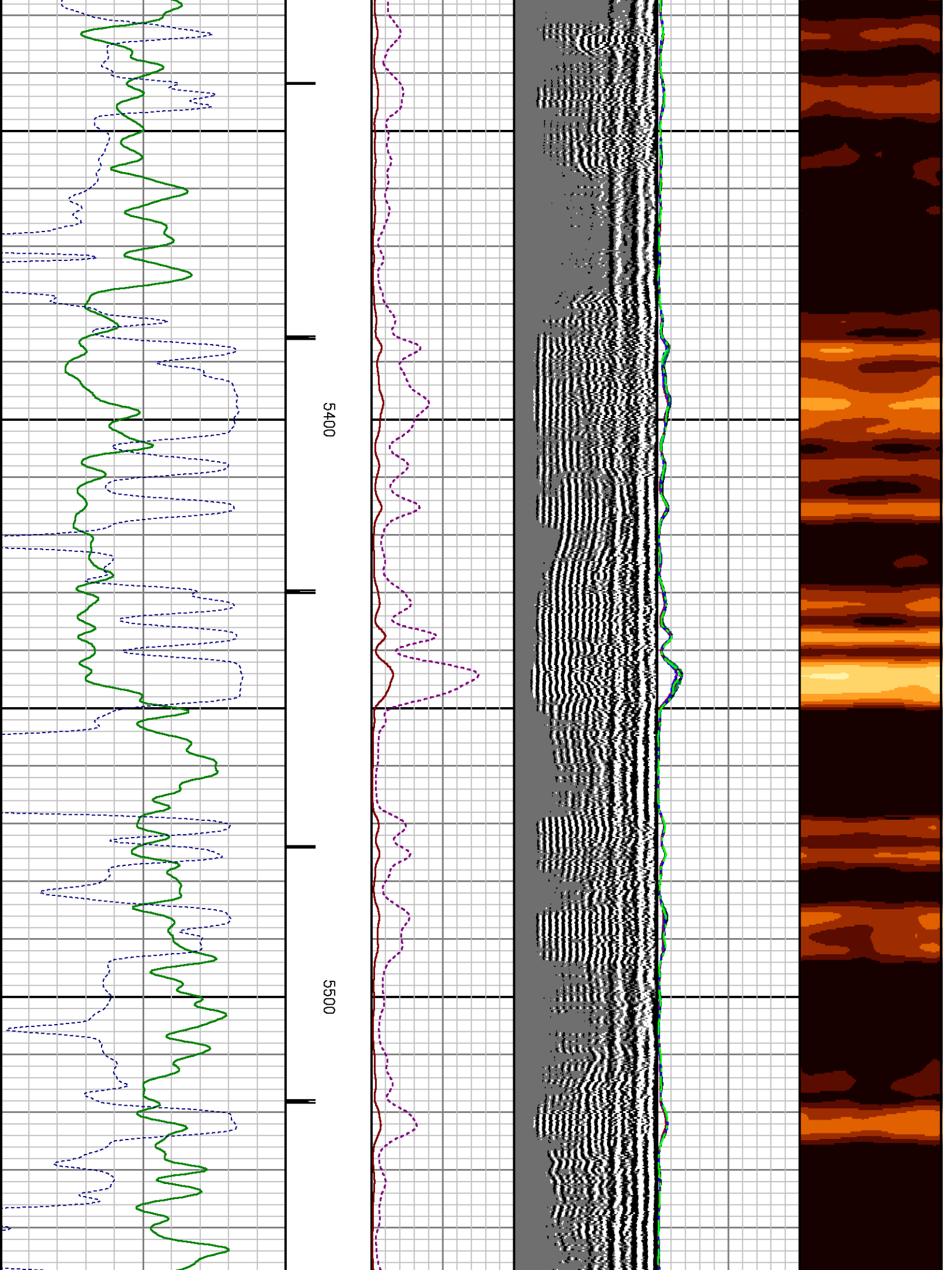


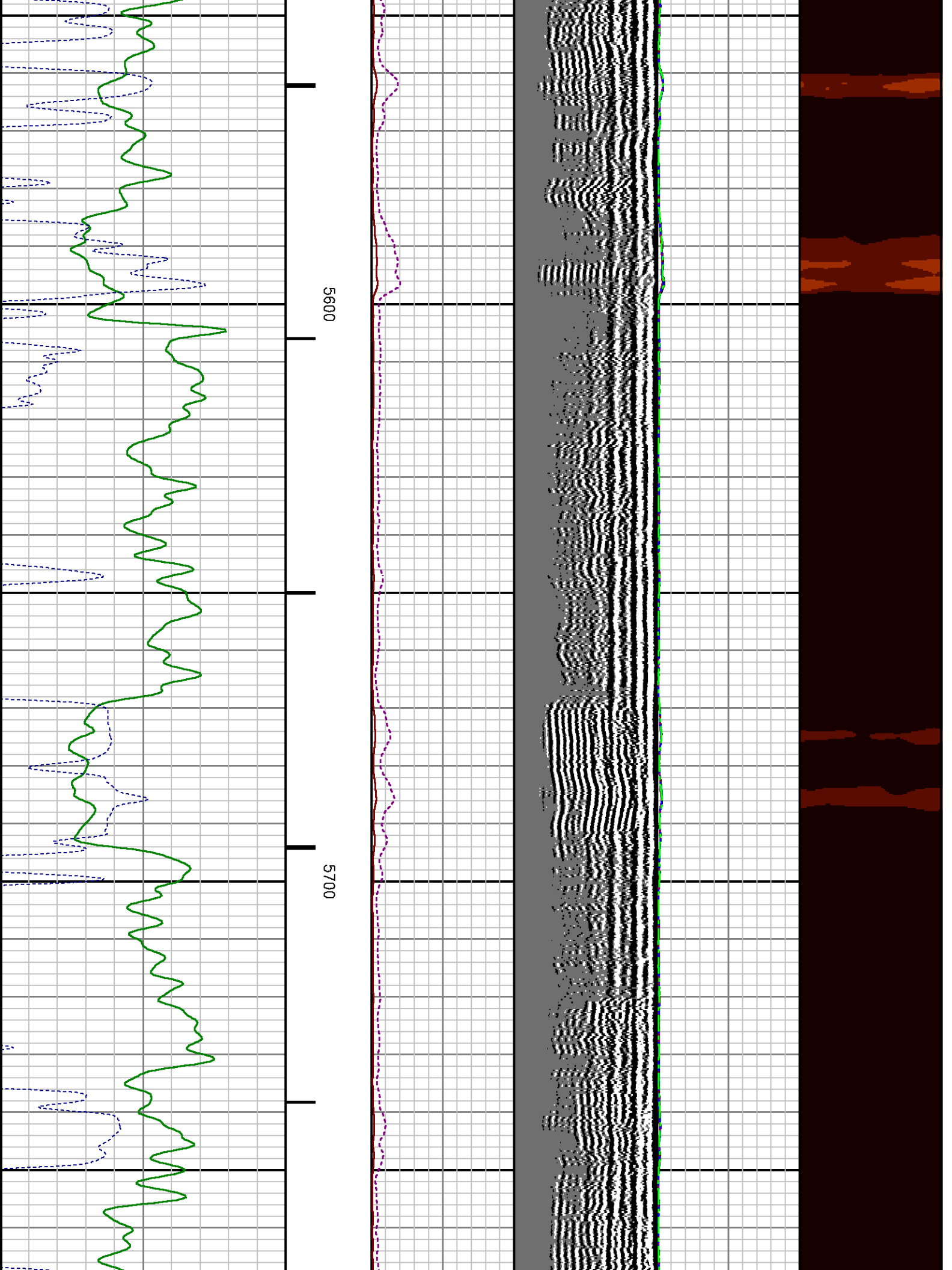


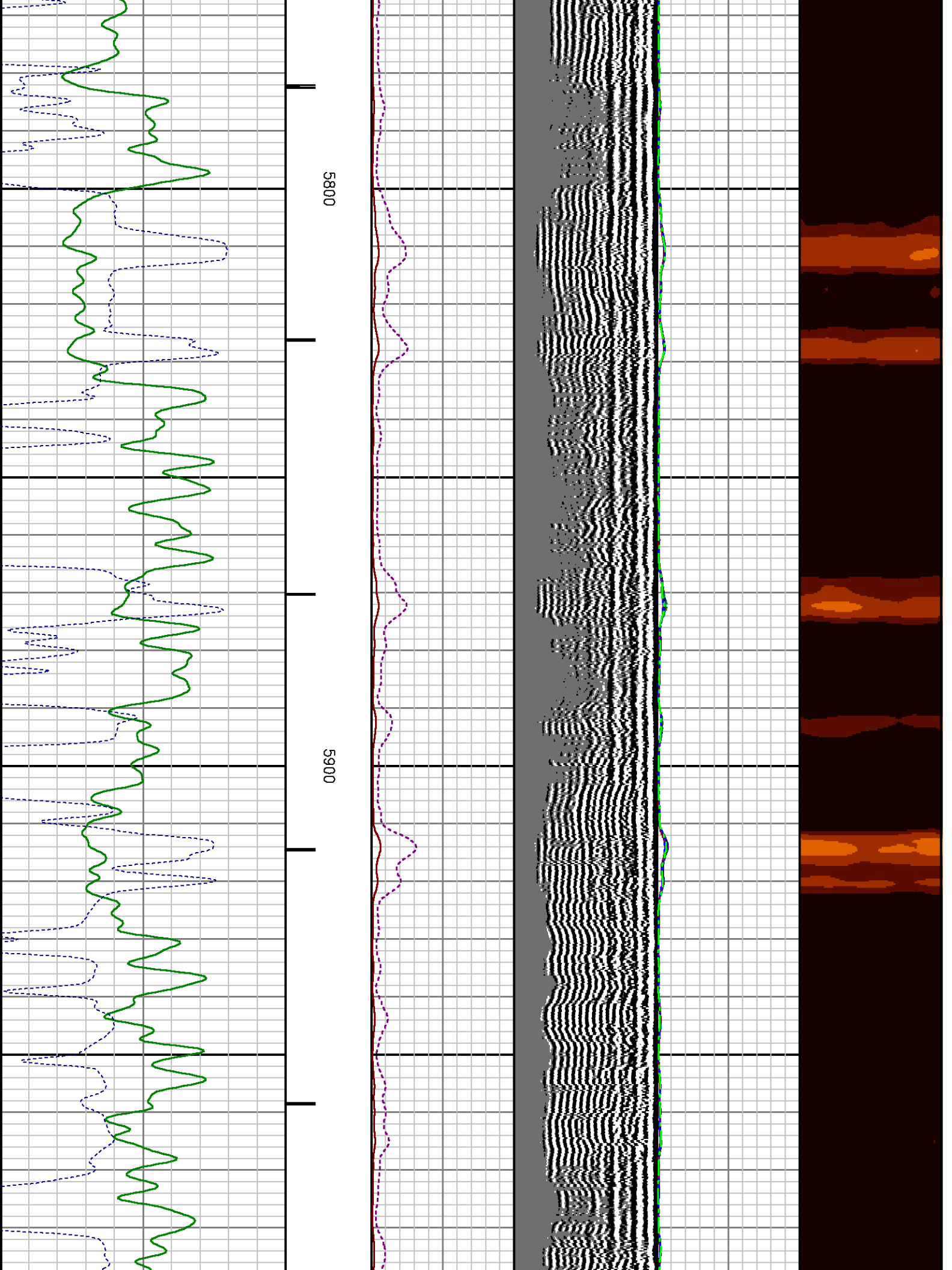


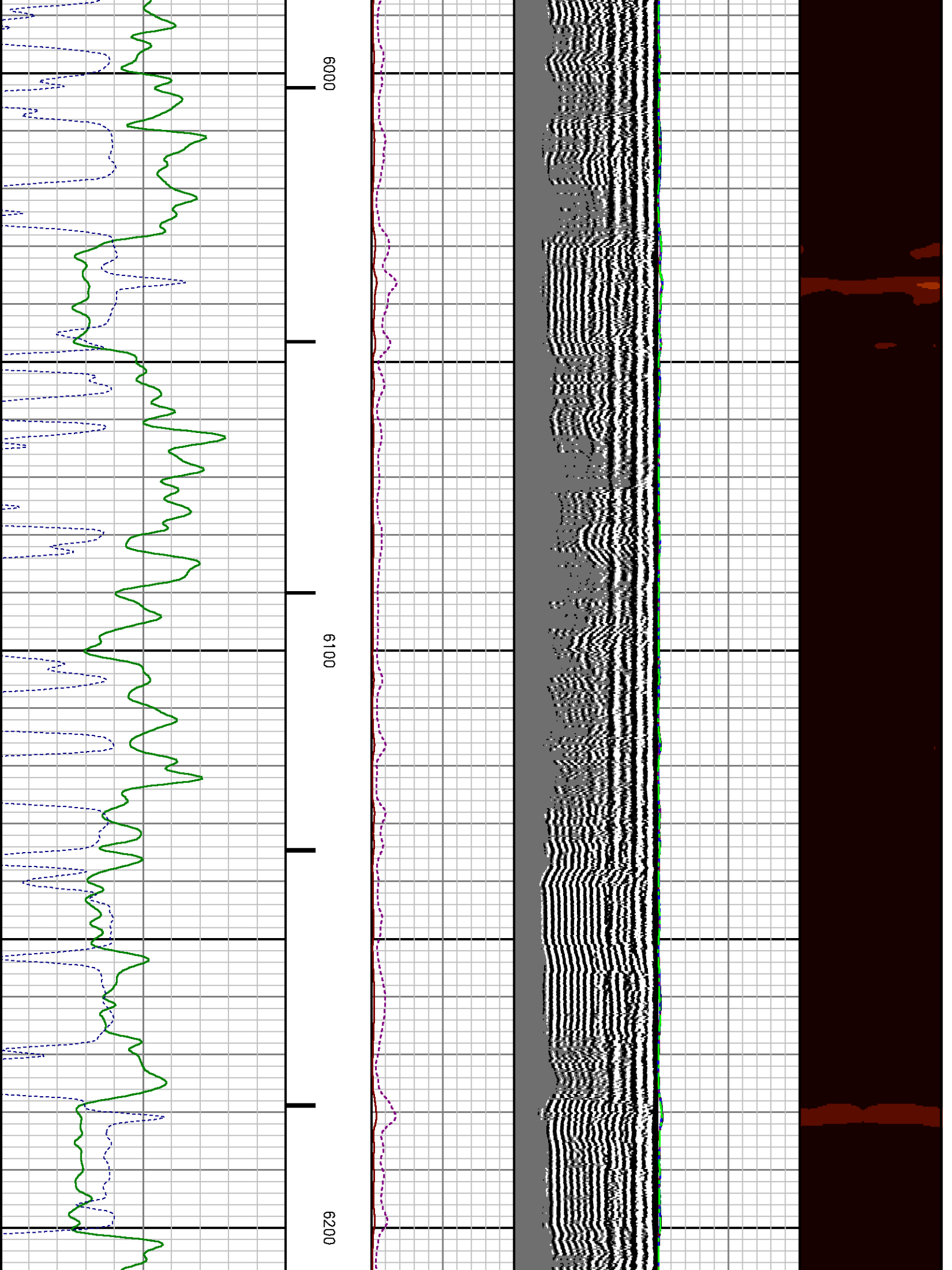


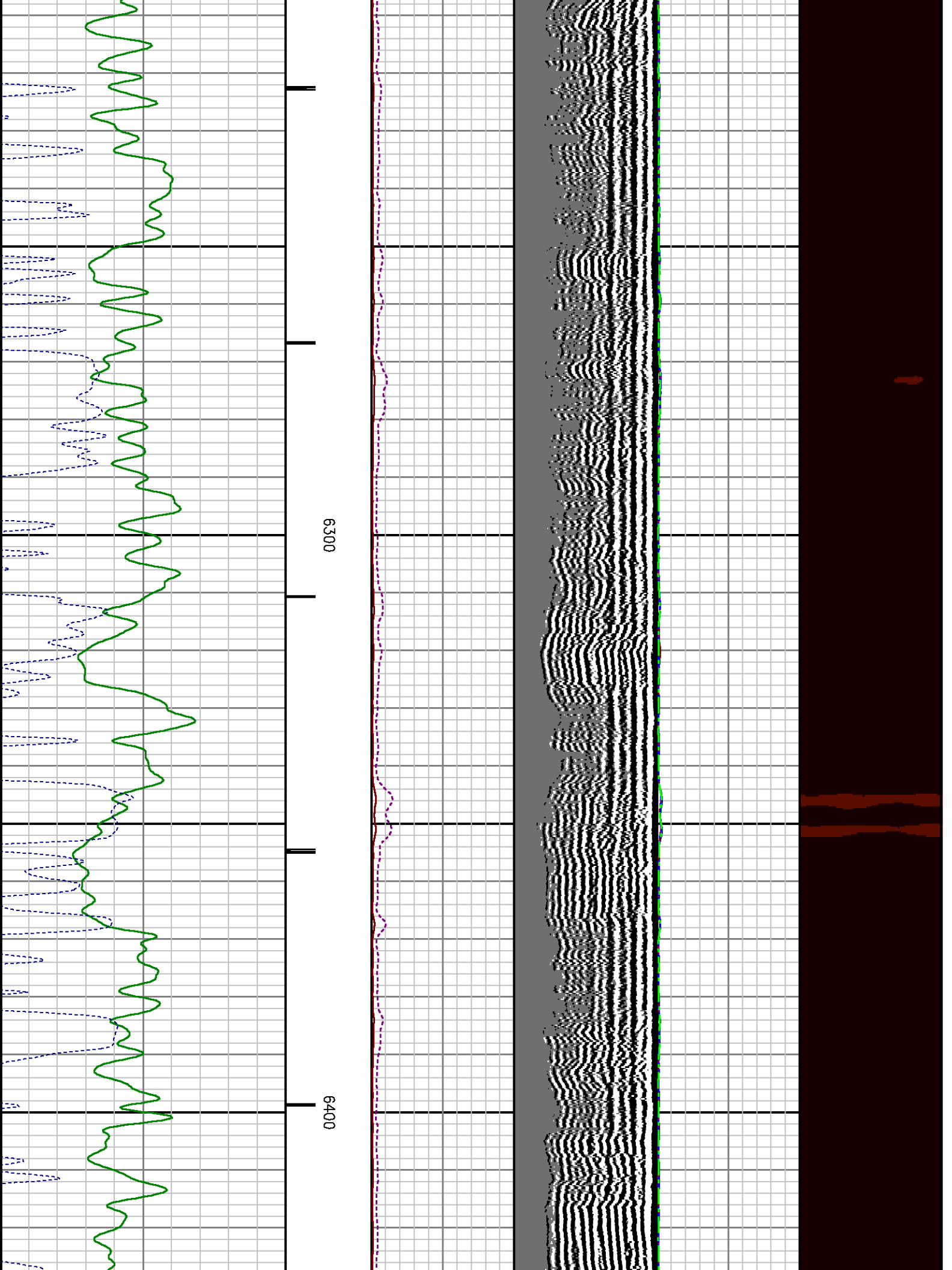


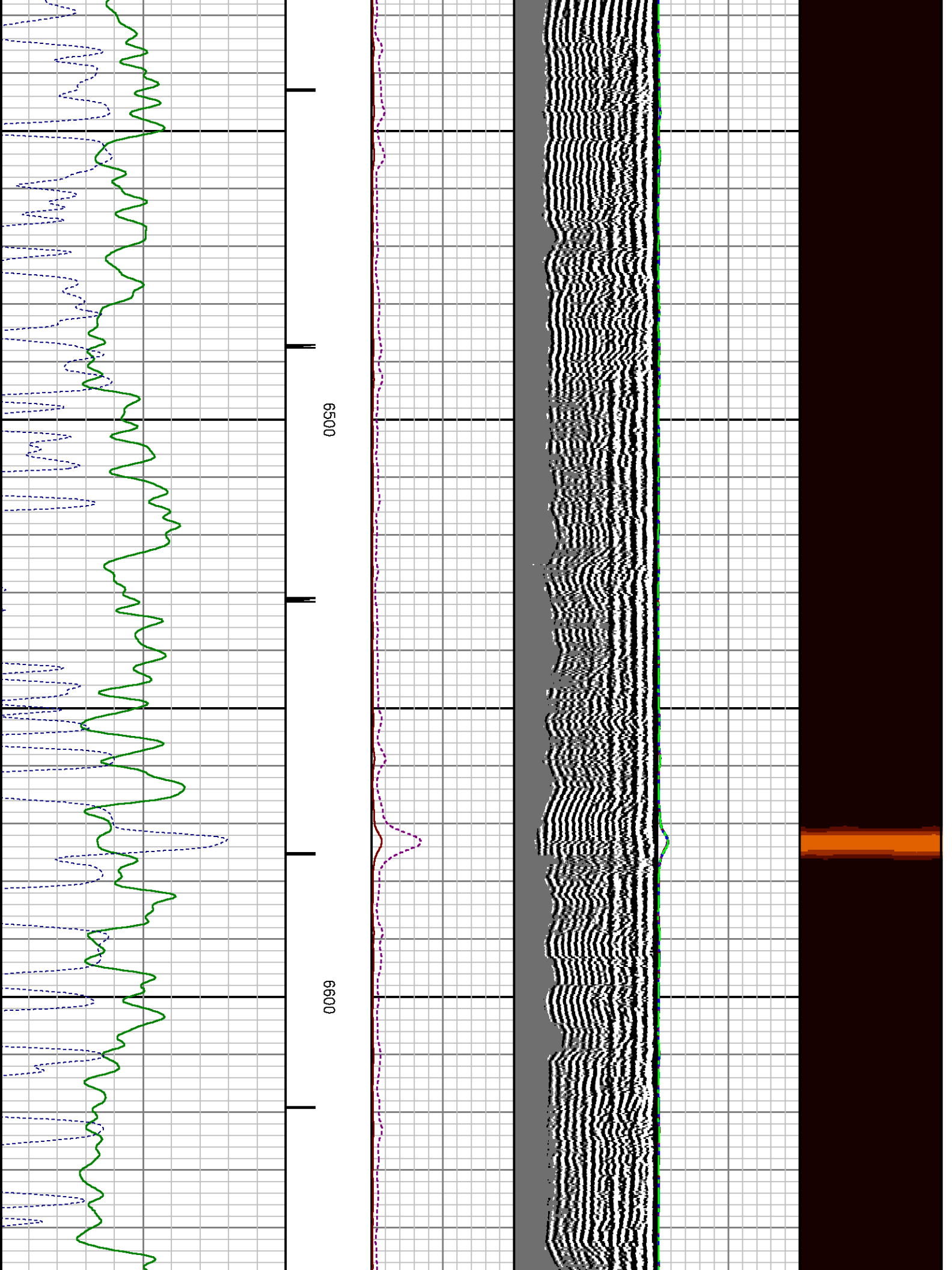


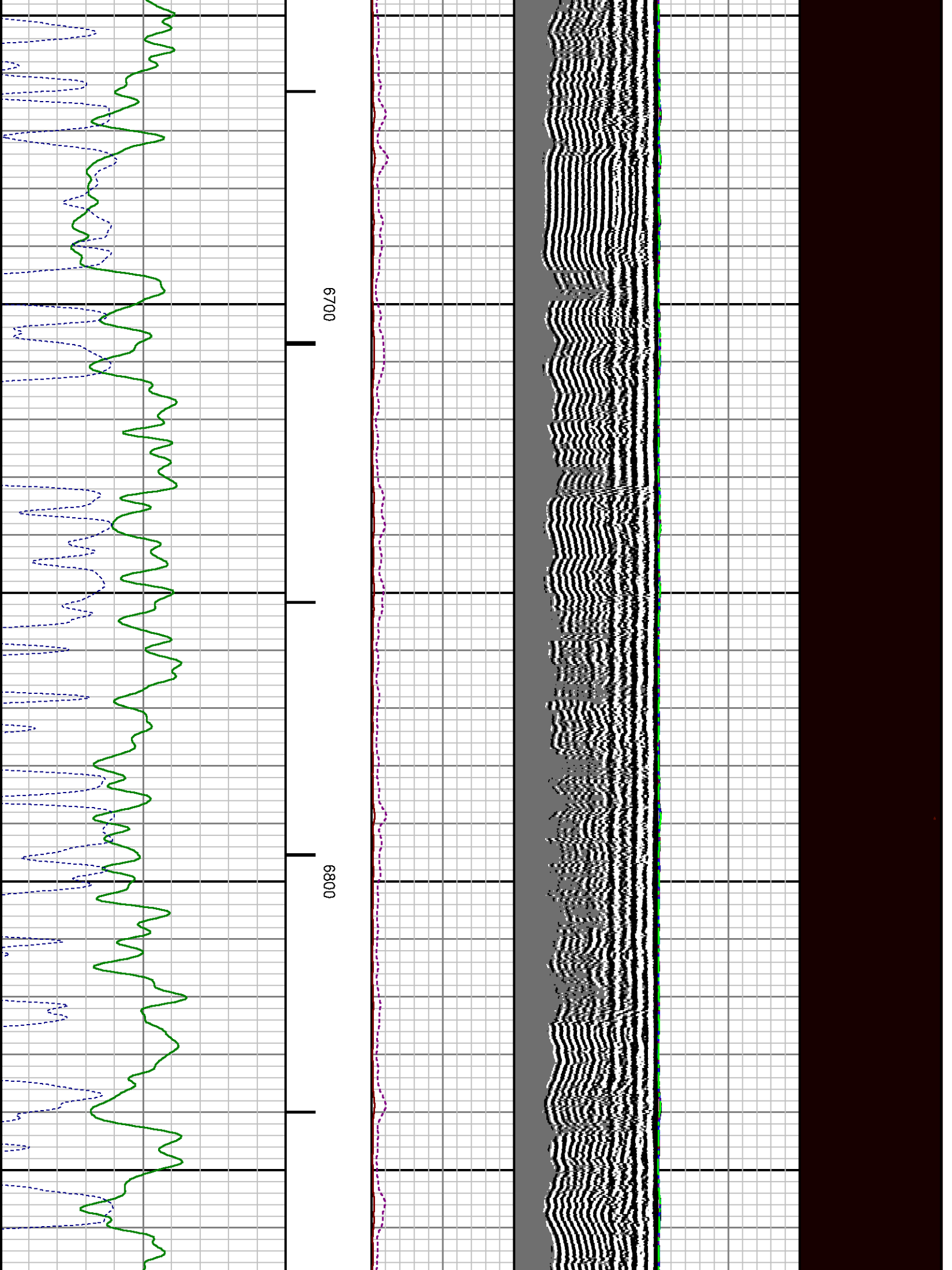


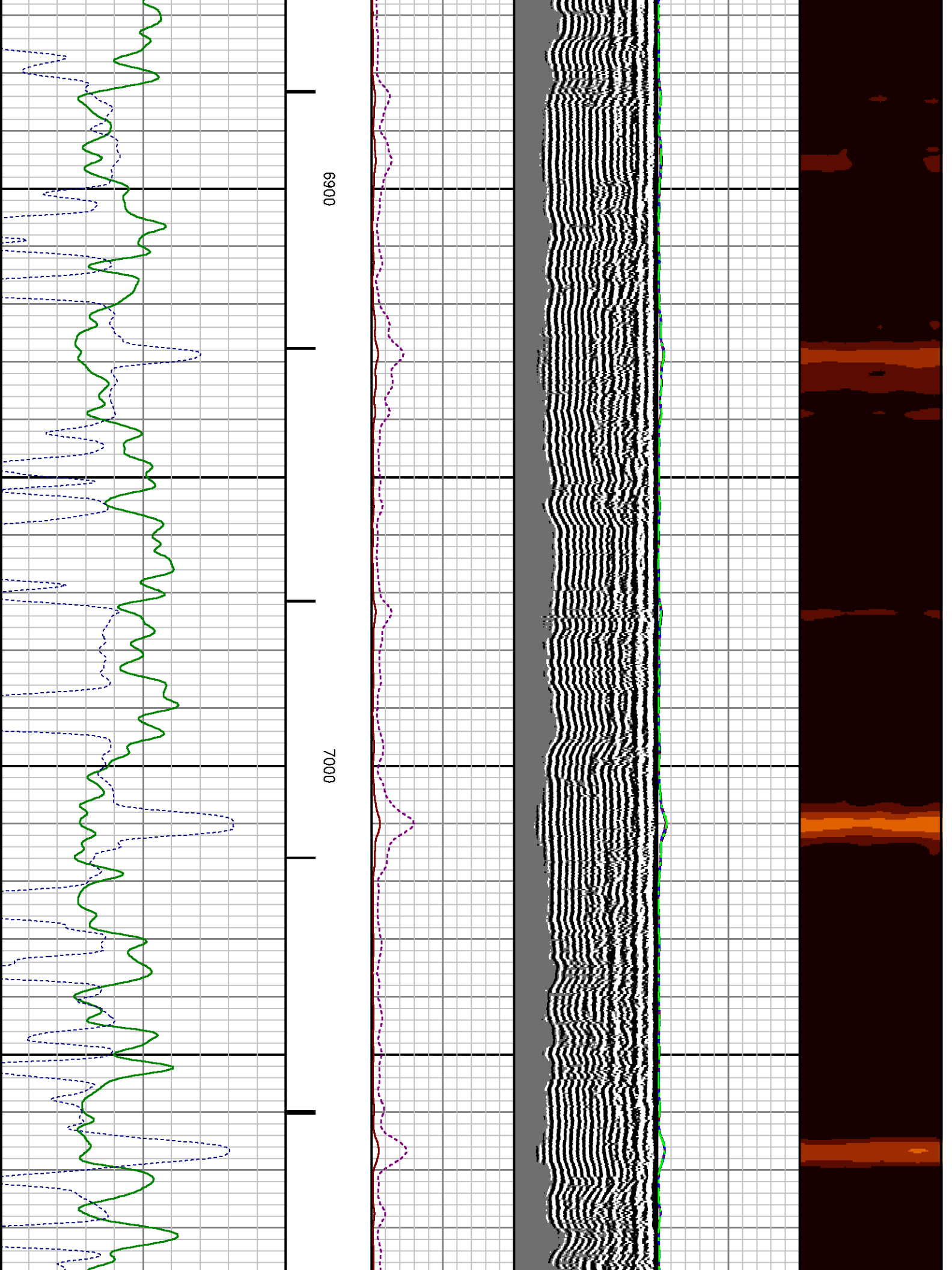


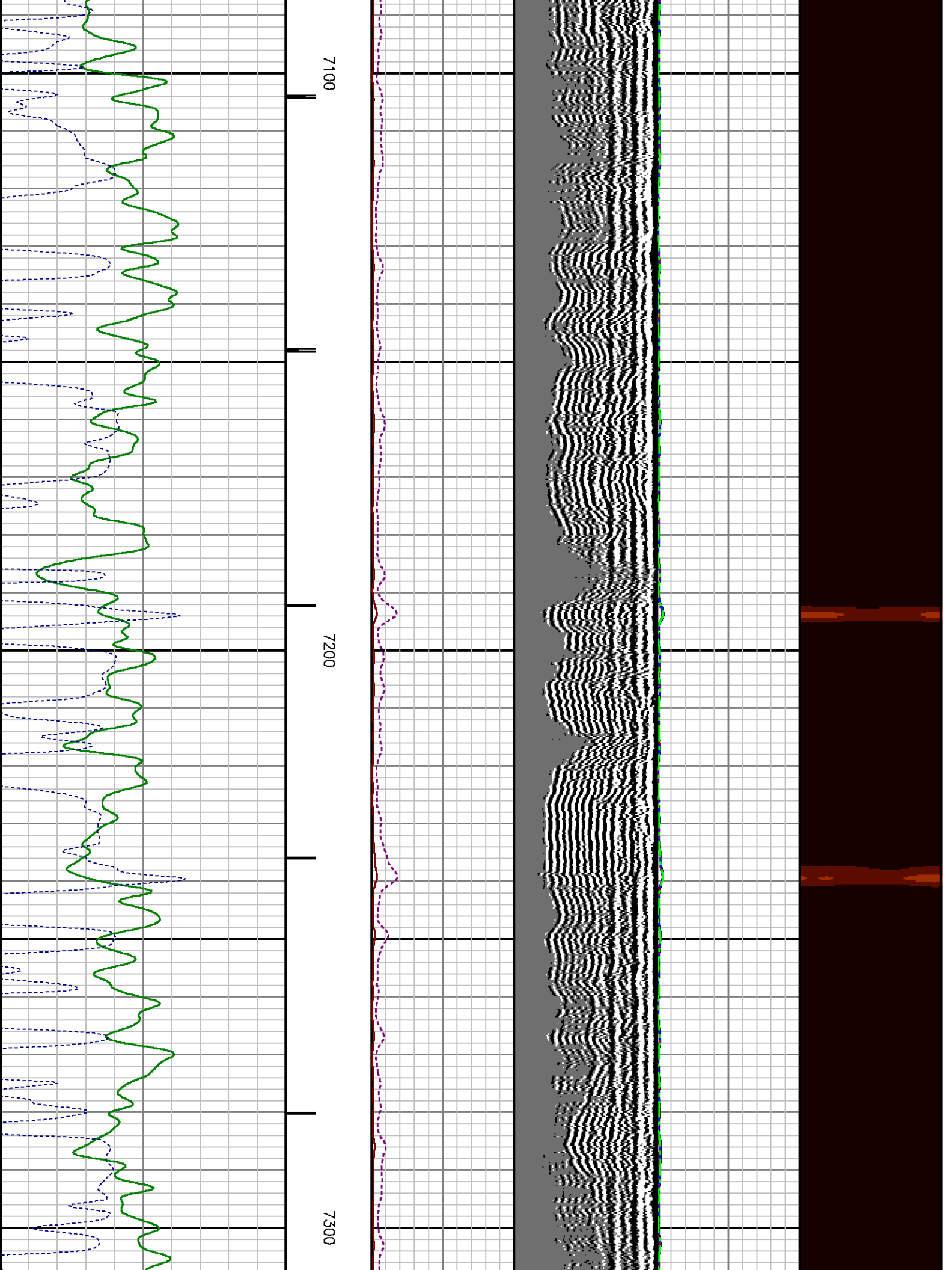


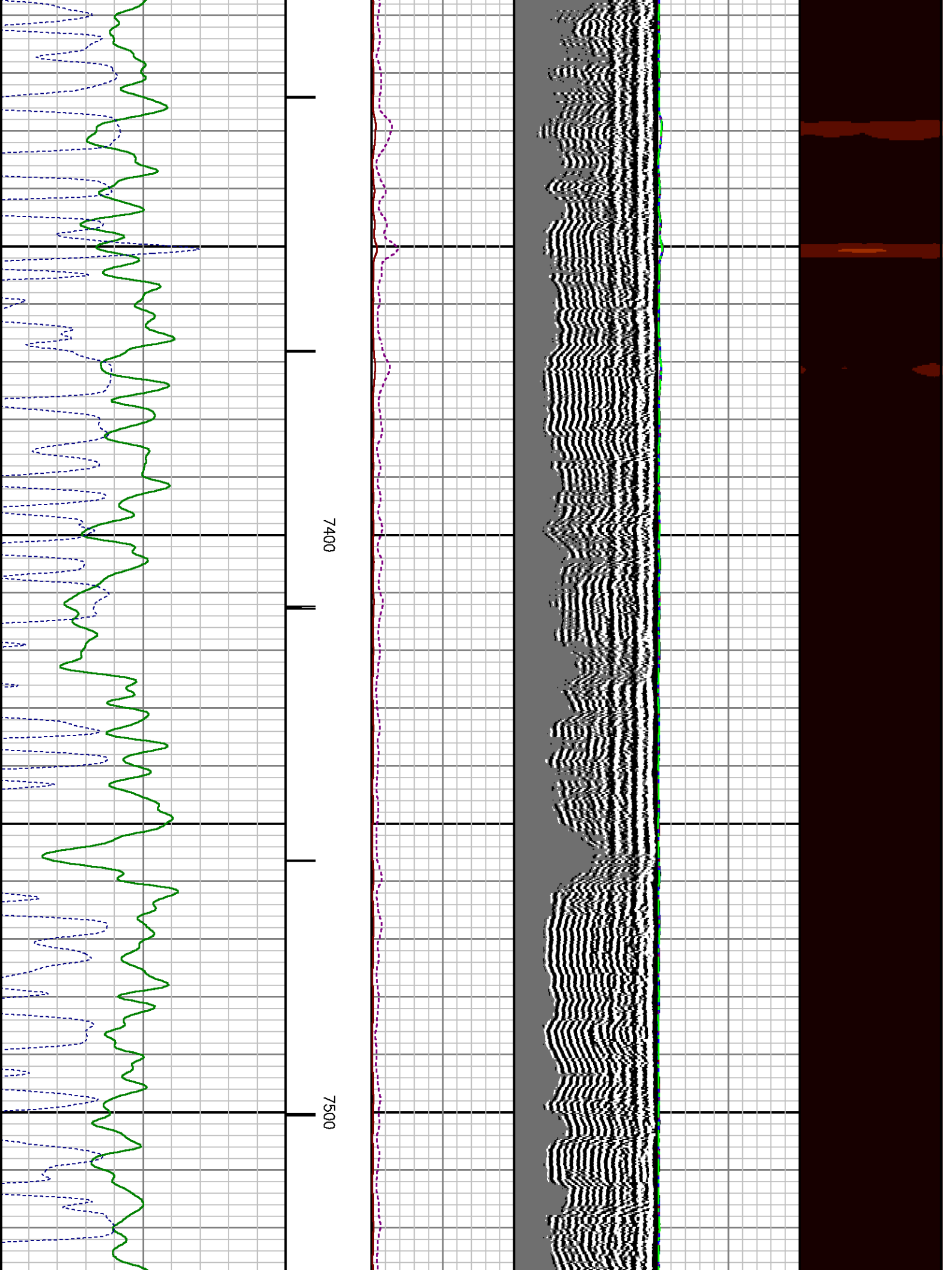


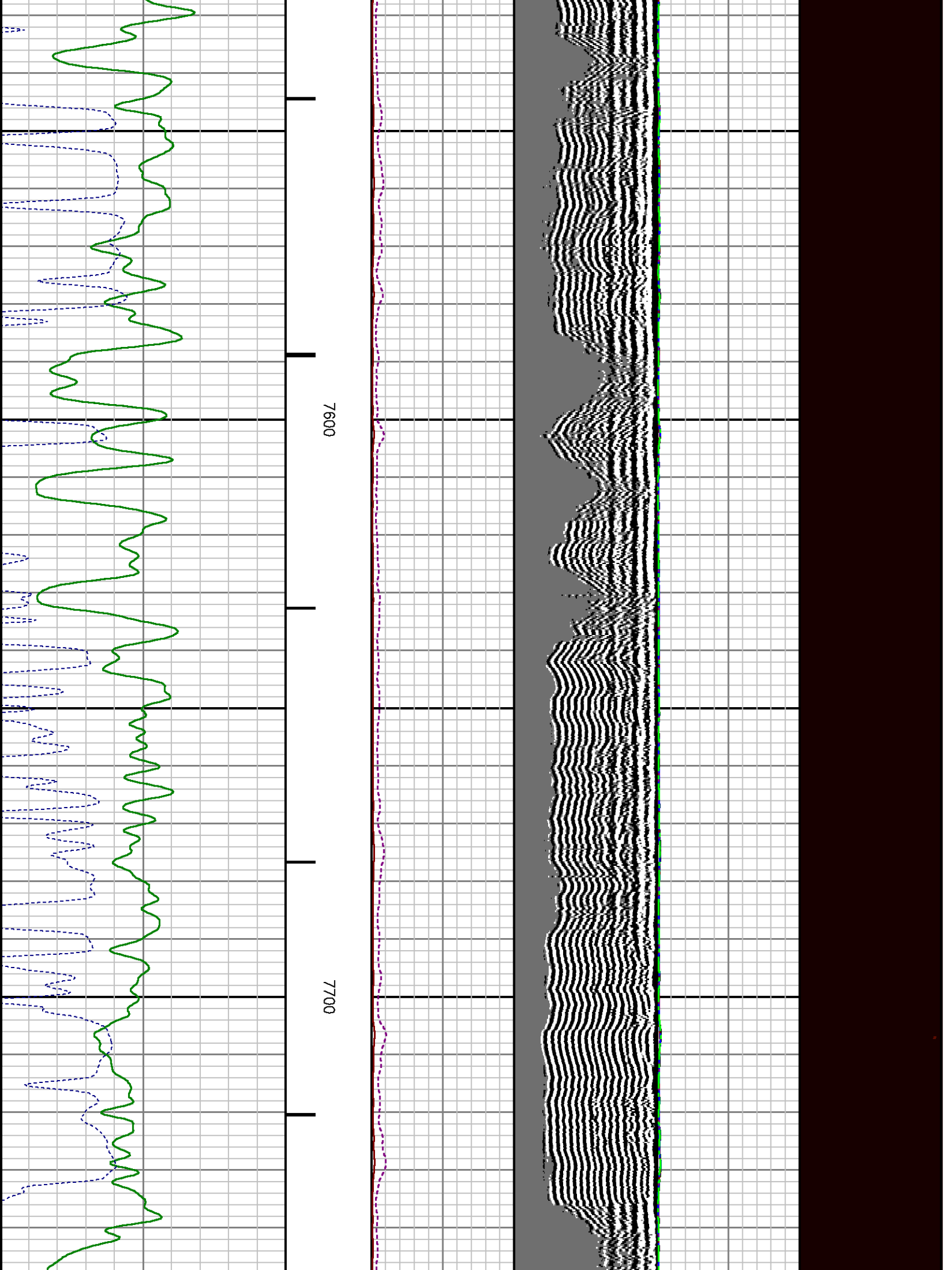


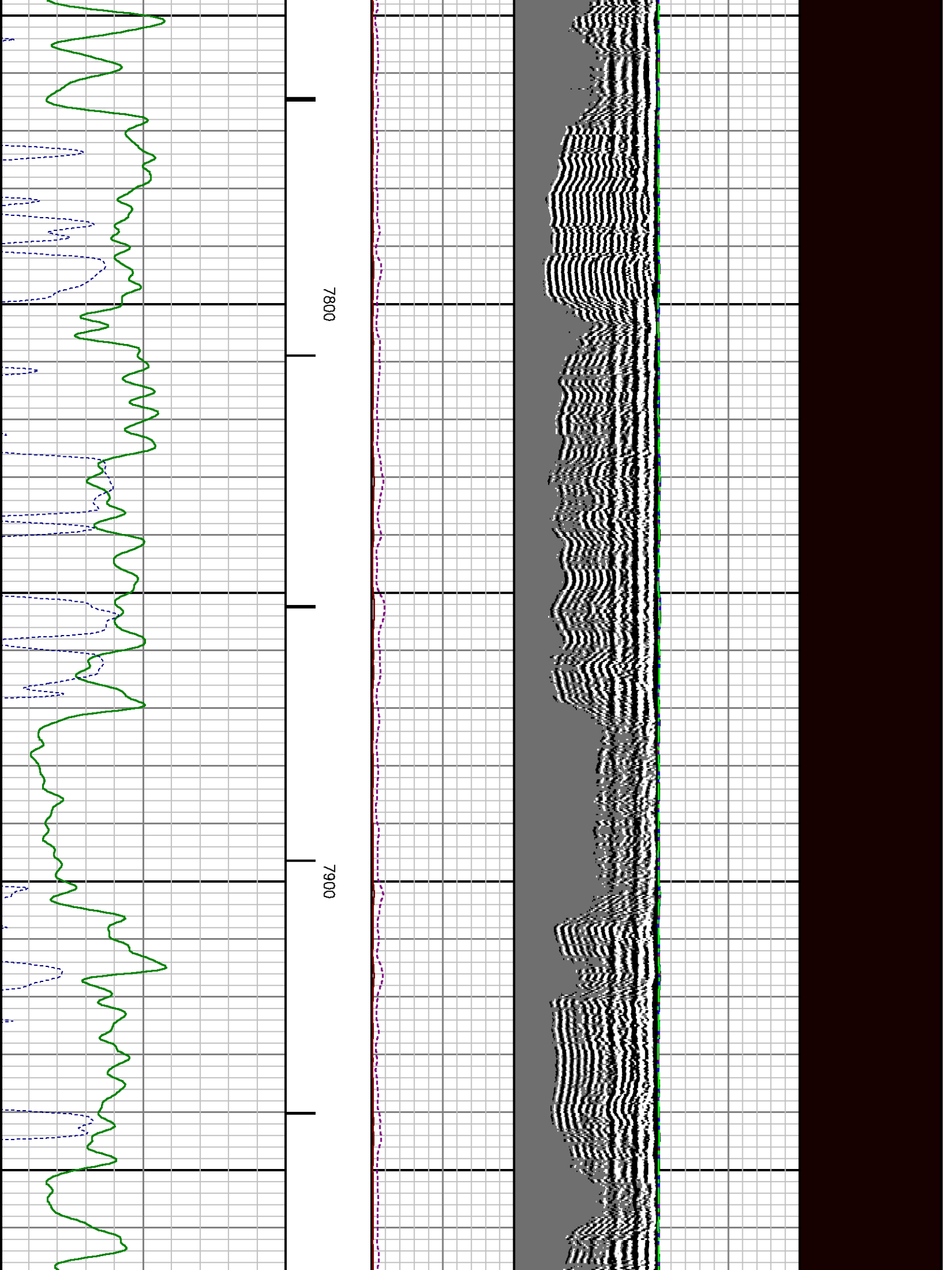


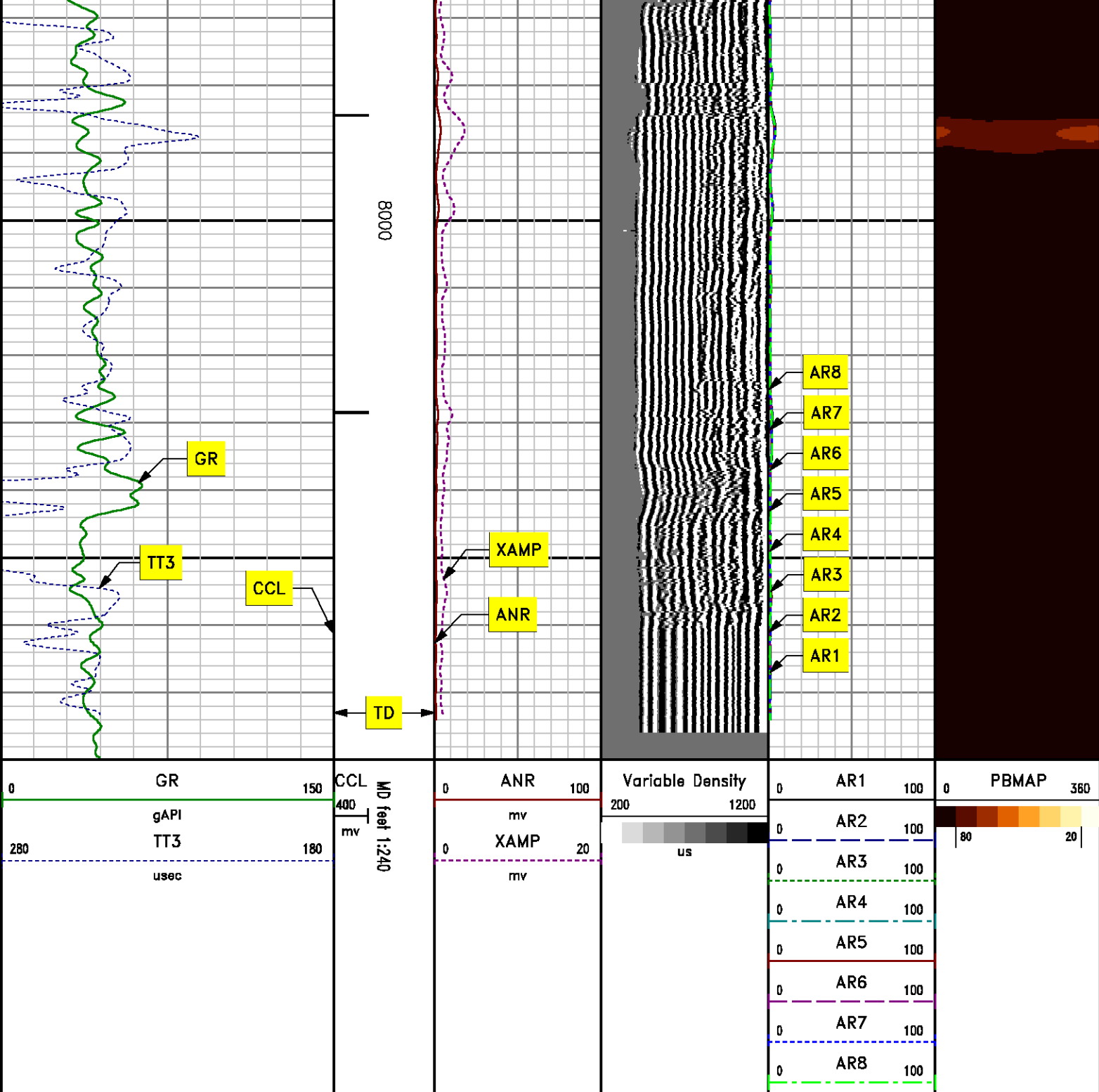












REPEAT PASS
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	304.887	usec	7749.754	8085.000
RAL	Amp Gate Start Near	196.061	usec	7749.754	8085.000
RAL	Amp Gate Start Radial	197.557	usec	7749.754	8085.000
RAL	Amp Gate Width Far	25.000	usec	7749.754	8085.000
RAL	Amp Gate Width Near	25.000	usec	7749.754	8085.000
RAL	Amp Gate Width Radial	25.000	usec	7749.754	8085.000
RAL	casing od	4.500	inches	7749.754	8085.000
RAL	casing wt	11.600	lbm/ft	7749.754	8085.000
RAL	FB Start Far	291.900	usec	7749.754	8085.000
RAL	FB Start Near	175.391	usec	7749.754	8085.000
RAL	FB Start Radial	175.391	usec	7749.754	8085.000
RAL	FB Thresh Far	10.000	mv	7749.754	8085.000
RAL	FB Thresh Near	4.000	mv	7749.754	8085.000
RAL	FB Thresh Radial	4.000	mv	7749.754	8085.000
RAL	Fluid Travel Time	200.000	usec/ft	7749.754	8084.973

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

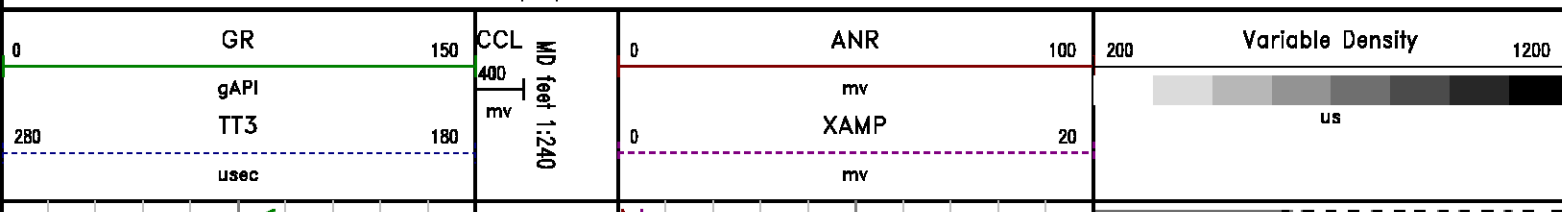
Well : YOUNBERG RWF 333-23

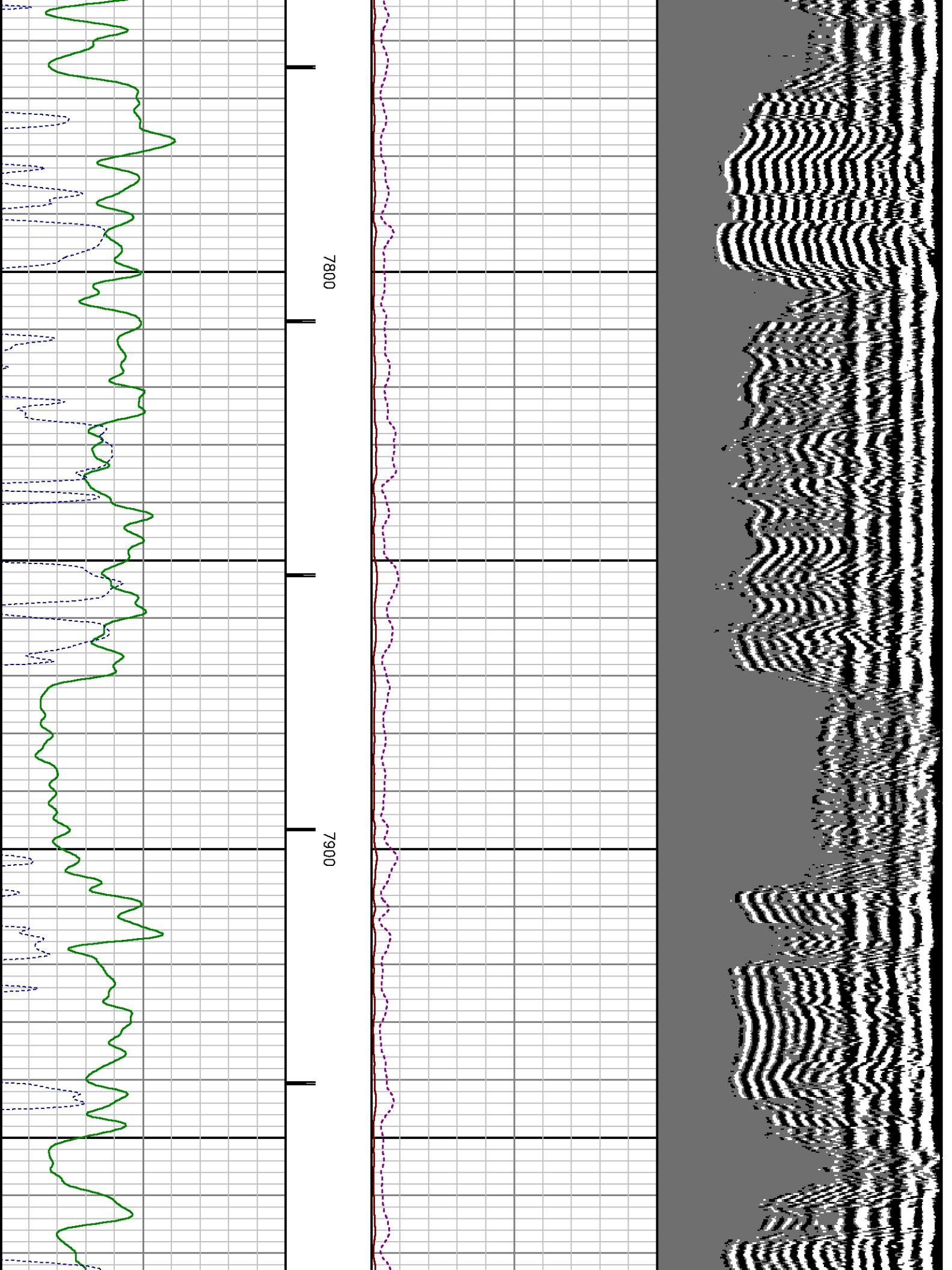
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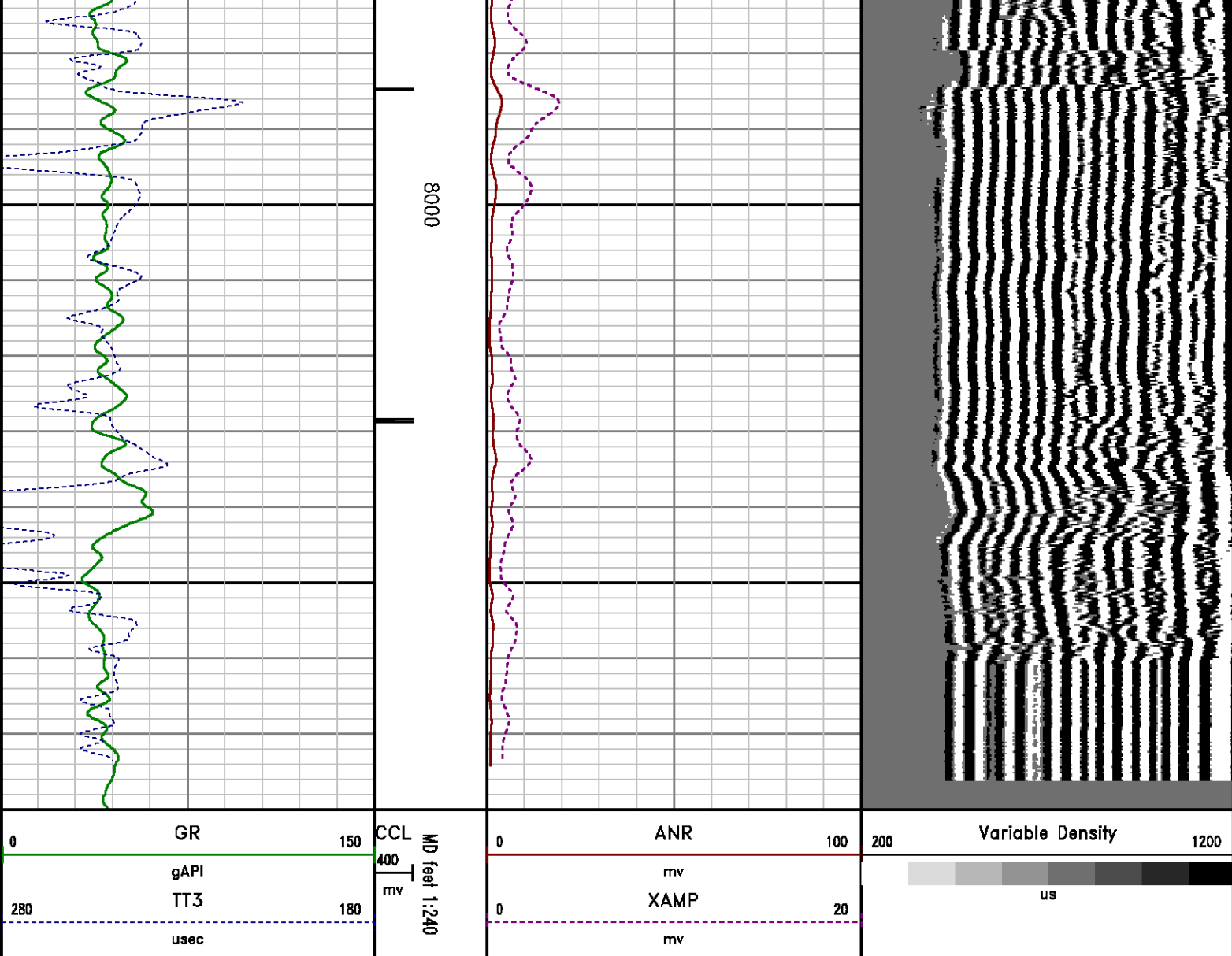
Mode : PlotMgr 5.4.504

Interval : 7750.00 - 8080.00 feet UP

Created : 4/25/2013 2:55:57 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A25 shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 25 05:12:32 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A25

Tool Delay [usec] -58.00 Tank OD in 5.50 Tank Wt lbm/ft 15.50 Tank ID in 4.95

RECEIVER Travel Time Amp. Gate Start Width Zero Gate Start Width Zero Amp. Ref. Shop Factor

CAL Pulse	219	216	30	166	25	-0.913	100.00	0.11
3 Ft. Receiver	219	216	30	166	25	0.319	100.00	0.11
5 Ft. Receiver	327	327	30	264	25	0.357	150.00	0.13
Radial #1	219	216	30	166	25	0.568	100.00	0.11
Radial #2	219	216	30	166	25	-2.567	100.00	0.11
Radial #3	219	216	30	166	25	-0.778	100.00	0.11
Radial #4	219	216	30	166	25	-1.972	100.00	0.11
Radial #5	219	216	30	166	25	-2.099	100.00	0.11
Radial #6	219	216	30	166	25	-0.702	100.00	0.11
Radial #7	219	216	30	166	25	-3.253	100.00	0.11
Radial #8	219	216	30	166	25	-1.341	100.00	0.11

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A25 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 25 05:13:57 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A25

Tool Delay [usec] -58.00 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	-0.029	0.000	1.01	100.000
3 Ft. Receiver	200	30	-1.220			
5 Ft. Receiver	317	30	-1.420			
Radial #1	200	30	-2.038			
Radial #2	200	30	-1.875			
Radial #3	200	30	-1.734			
Radial #4	200	30	-1.885			
Radial #5	200	30	-1.451			
Radial #6	200	30	-1.440			
Radial #7	200	30	-1.060			
Radial #8	200	30	-1.321			

GAMMA RAY

Calibration File: C:\case\calver\GR\209A1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 11 12:00:10 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	147.33	600.49	0.408	60.15	245.15	185.00

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Apr 11 12:01:16 2013

TOOL SERIES: 1355XA ASSET: 209 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]
S2K WA612	149.69	589.51

Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
0.408	61.11	240.67	179.56

*TOOL DIAGRAM**OTA SHORT CABLE HEAD**PROBE 2 3/4 DUAL RECEIVER RADII*

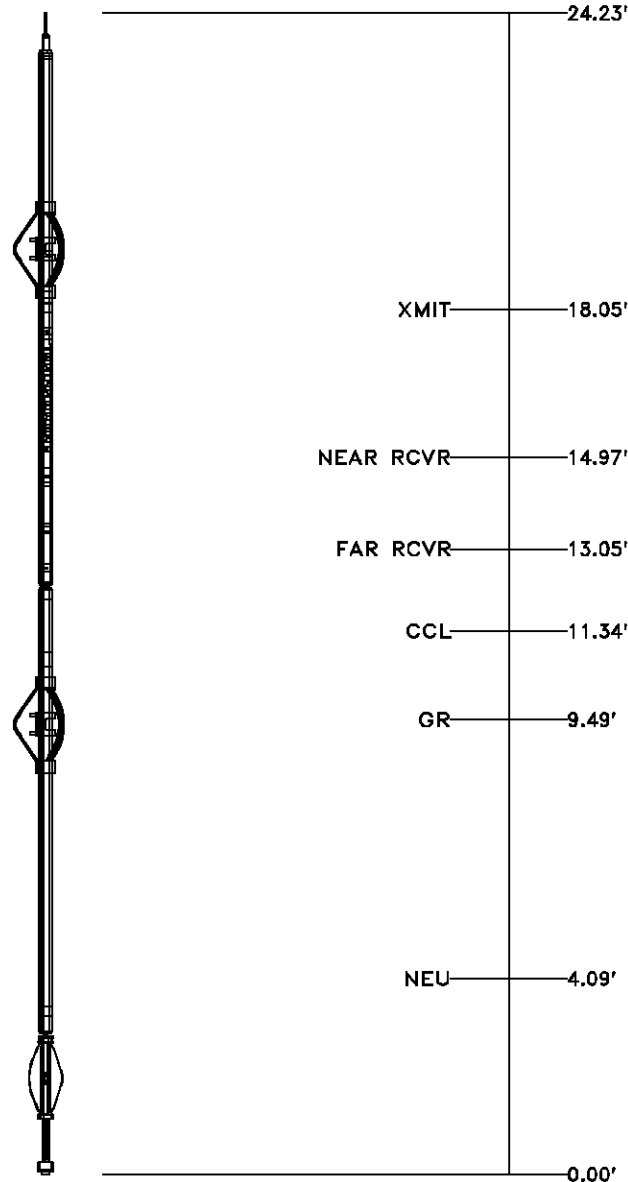
Series	1426XA
Mnemonic	PROB
Diameter	2.75"
Length	11.17'
Measure Point	0.75' FAR RCVR
Measure Point	2.67' NEAR RCVR
Measure Point	5.75' XMIT
Temp Rating	350.00 °F
Press Rating	18000.00 PSI

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



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



Baker Atlas



Company	WPX ENERGY		
Well	YOUBERG RWF 333-23		
Field	RULISON		
County	GARFIELD	State	COLORADO

File No:	CH071348
API No:	05045182410000

Location		Elevations	
SHL: 1348' FSL & 2318' FEL SEC:23		KB	5527.5 ft
BHL: 1398' FSL & 1932' FEL SEC:23		DF	
		GL	5501.5 ft
SEC	23	TWP	6S RGE 94W

23 6S 94W
RWF 33-23
NABORS SSD 577