



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH076672	Company Well Field County	WPX ENERGY STRAIT SG 41-22 GRAND VALLEY GARFIELD	State COLORADO
API No: 05045217500000			
22 7S 96W SG 42-22 CYCLONE 17	Location SHL: 1450' FNL & 287' FEL SEC:22 BHL: 180' FNL & 341' FEL SEC:22 SEC 22 TWP 7S RGE 96W	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 5222 ft K.B. _____ 22 ft Above P. D. KELLY BUSHING	Elevations KB 5244 ft DF GL 5222 ft	

Date	04/SEP/13	
Run	ONE	
Service Order	B24A11	
Depth Driller	5629 ft	
Depth Logger	5769 ft	
Bottom Logged Interval	5759 ft	
Top Logged Interval	22 ft	
Time Started	7:30	
Time Finished	10:00	
Operator Rig Time	2.5 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	52 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	189 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	U. KINSEL	9721
Witnessed By	MR. DUSTIN WELSH	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	1217 ft
8.75 in	0 ft	5829 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	N/A	N/A	0 ft	1159 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	5829 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: 3291' - 3315'
BHT: 189 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10218495	CENTRALIZED
1	1	GAMMA RAY/CCL	1355XA	10580209	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	309.409	usec	30.343	5789.250
RAL	Amp Gate Start Near	200.391	usec	30.343	5789.250
RAL	Amp Gate Start Radial	200.391	usec	30.343	5789.250
RAL	Amp Gate Width Far	25.000	usec	30.343	5789.250
RAL	Amp Gate Width Near	25.000	usec	30.343	5789.250
RAL	Amp Gate Width Radial	25.000	usec	30.343	5789.250
RAL	casing od	4.500	inches	30.343	5789.250
RAL	casing wt	11.600	lbm/ft	30.343	5789.250
RAL	FB Start Far	291.900	usec	30.343	5789.250
RAL	FB Start Near	175.391	usec	30.343	5789.250
RAL	FB Start Radial	175.391	usec	30.343	5789.250
RAL	FB Thresh Far	10.000	mv	30.343	5789.250
RAL	FB Thresh Near	4.000	mv	30.343	5789.250
RAL	FB Thresh Radial	4.000	mv	30.343	5789.250
RAL	Fluid Travel Time	200.000	usec/ft	30.343	5788.843

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

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

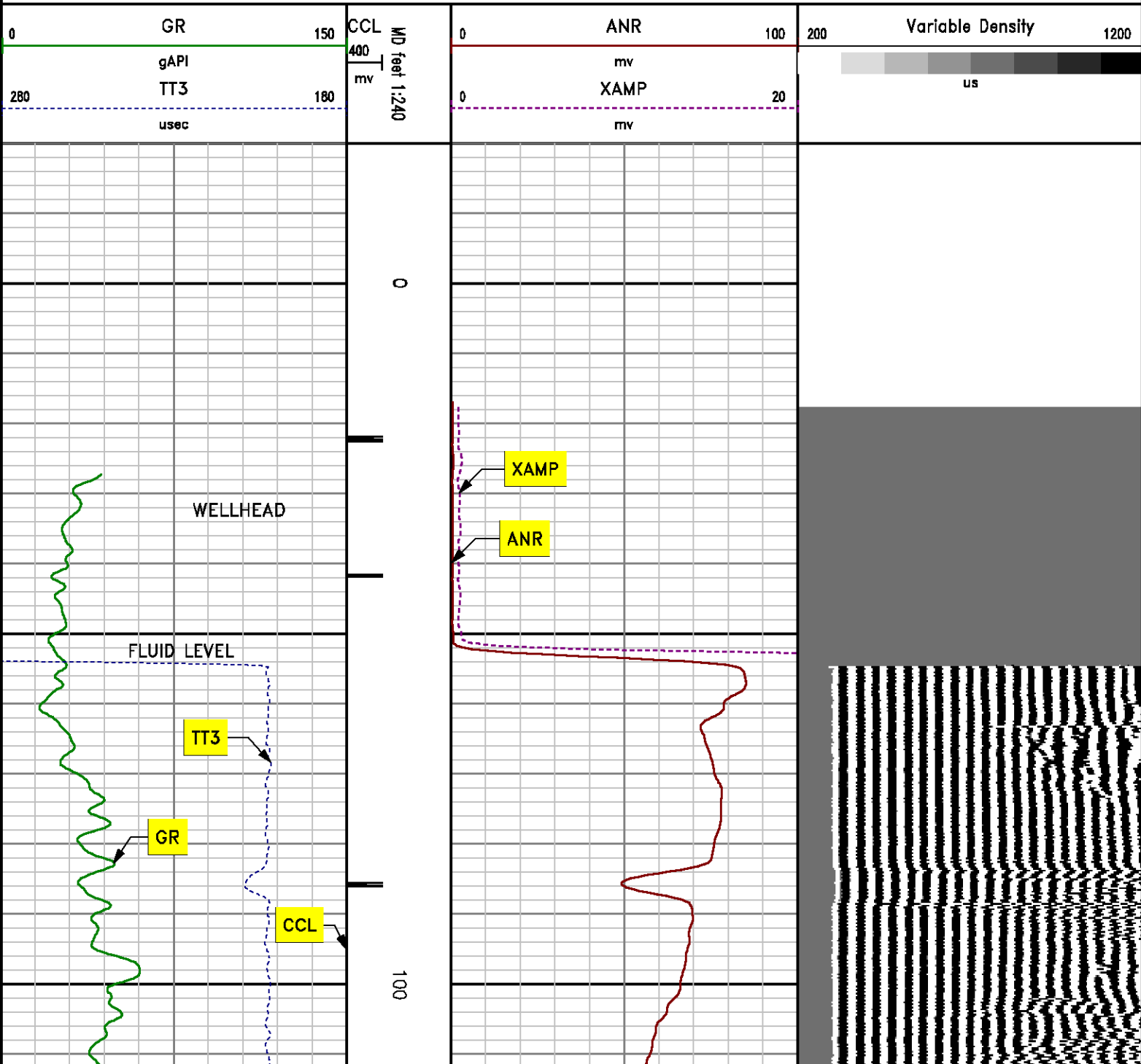
Well : STRAIT SG 41-22

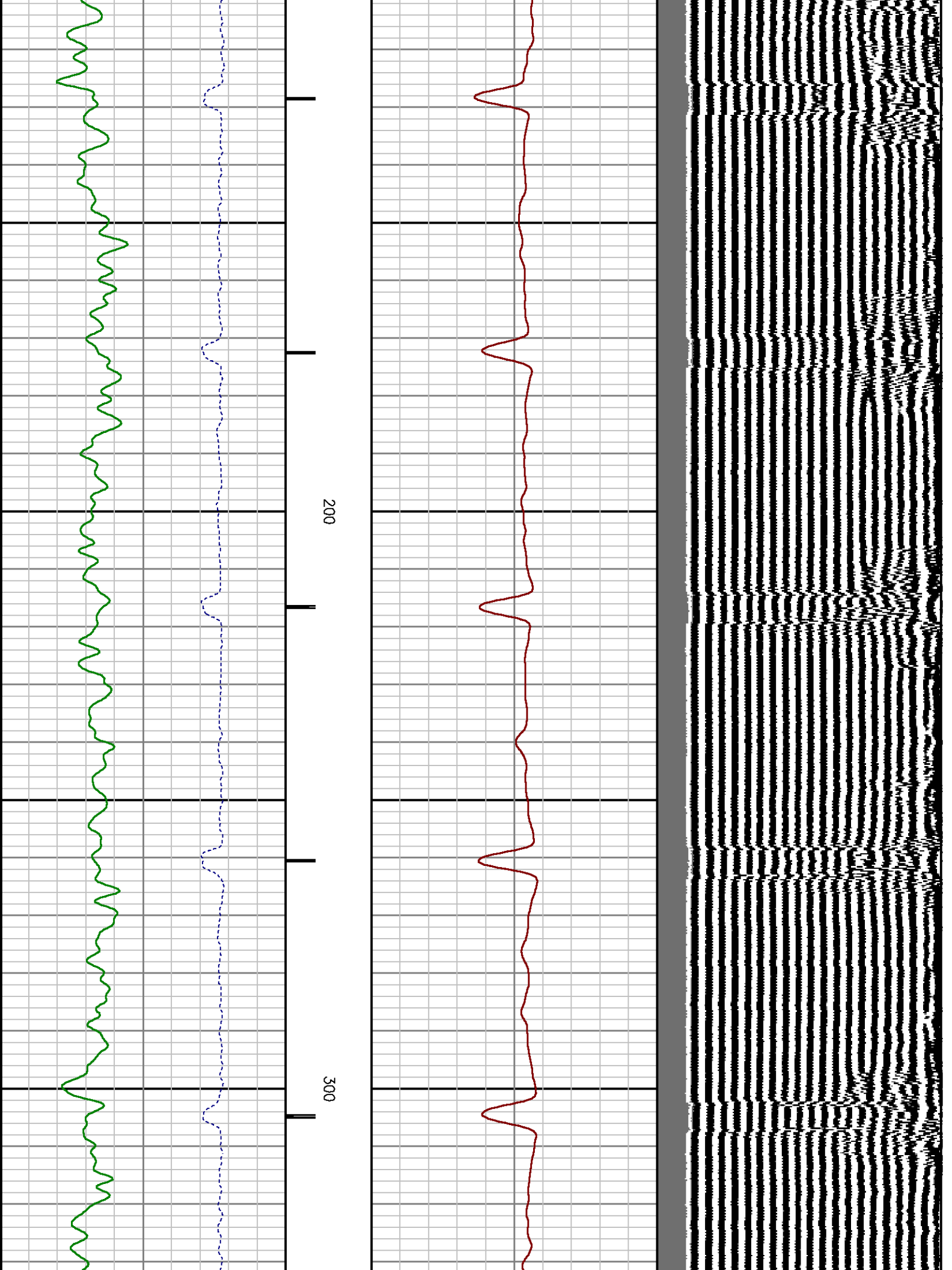
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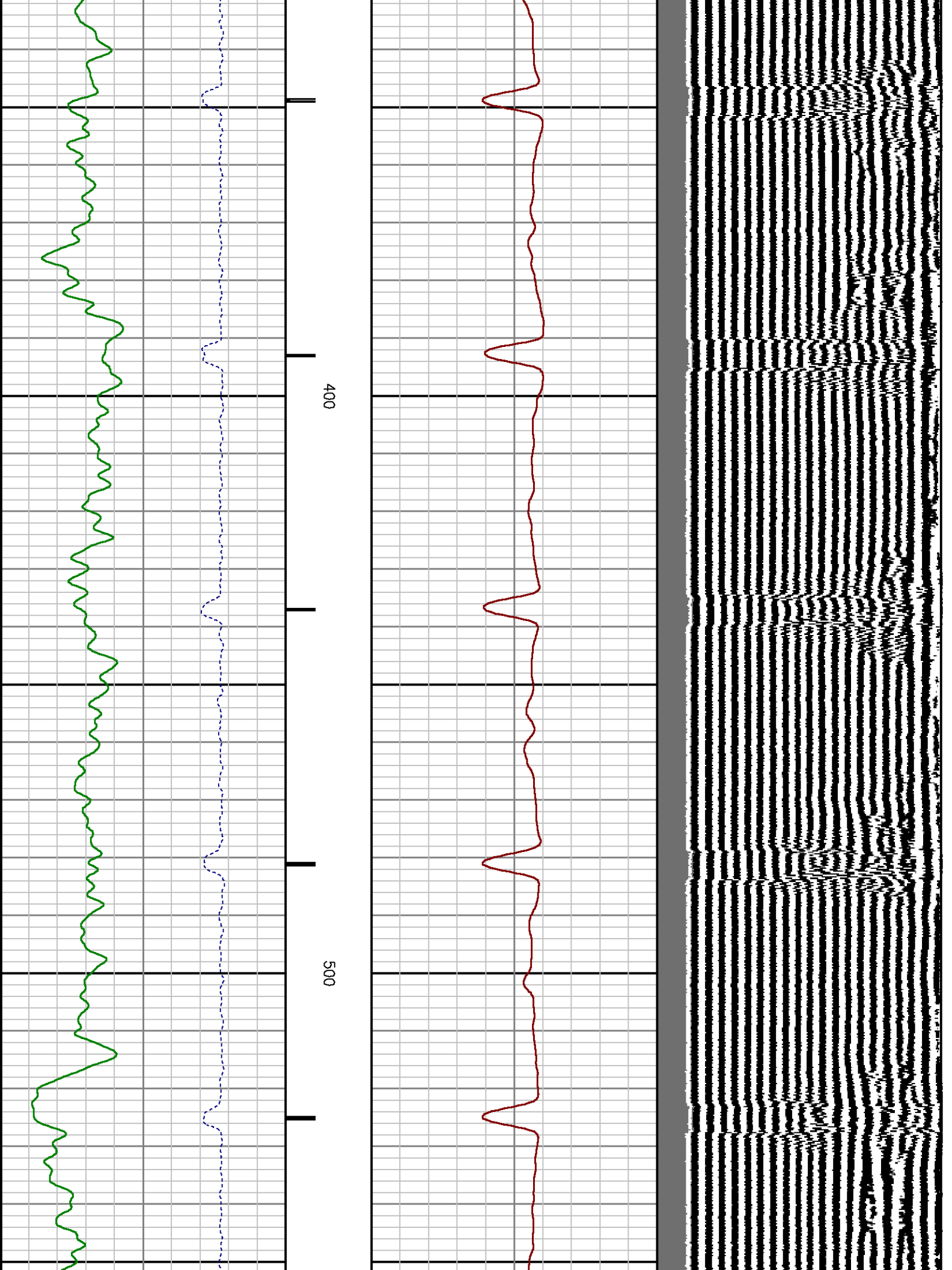
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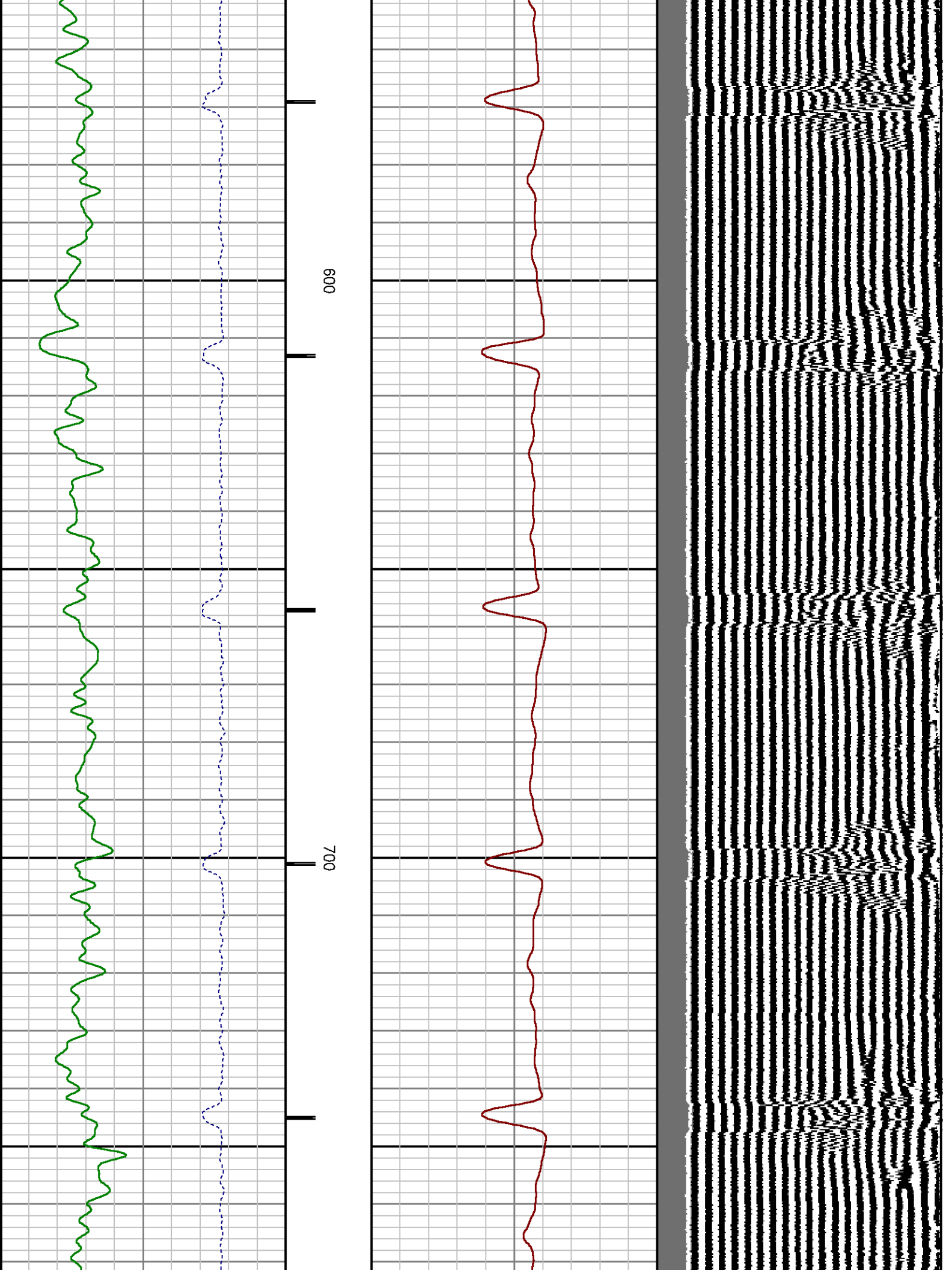
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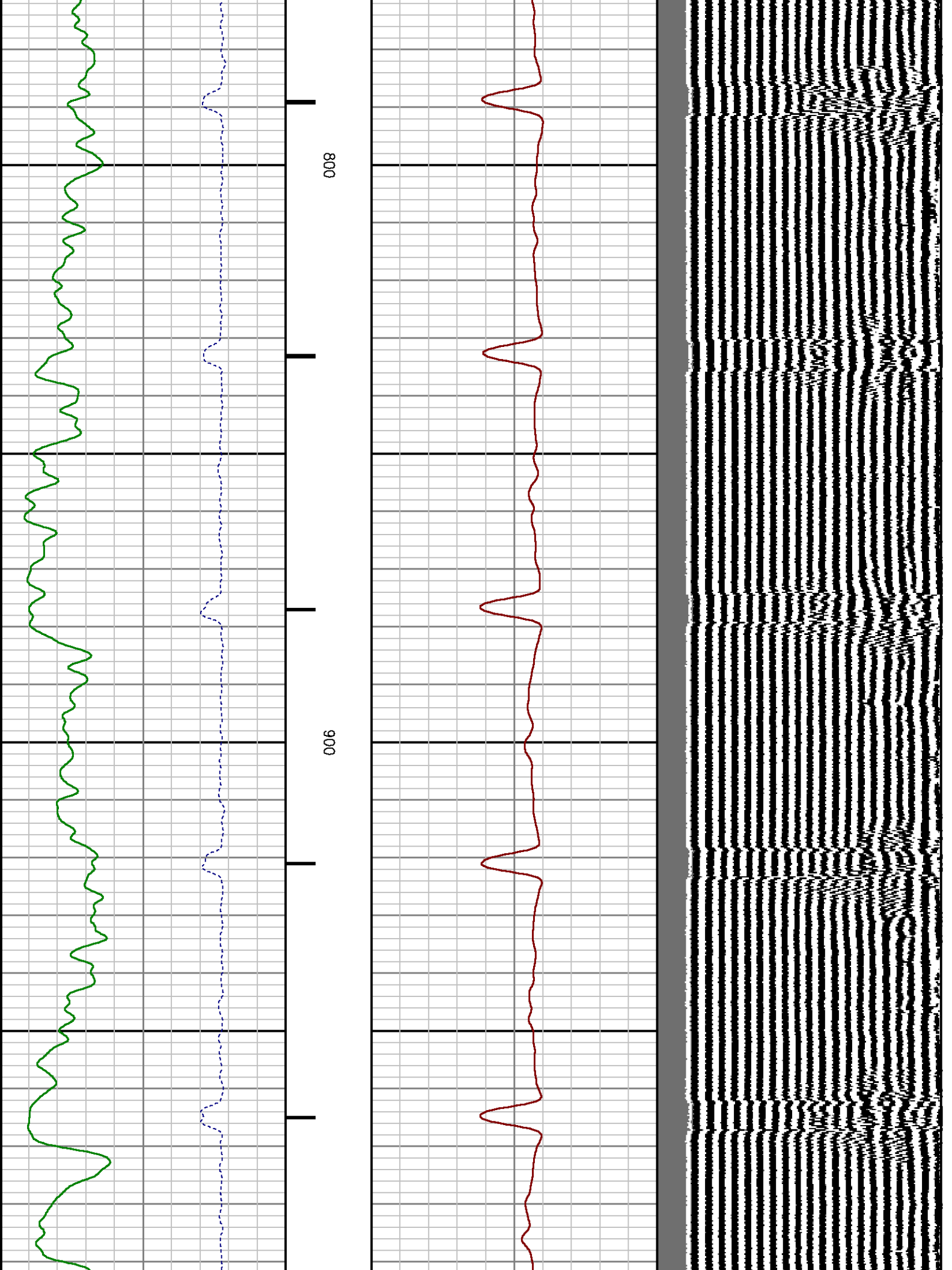
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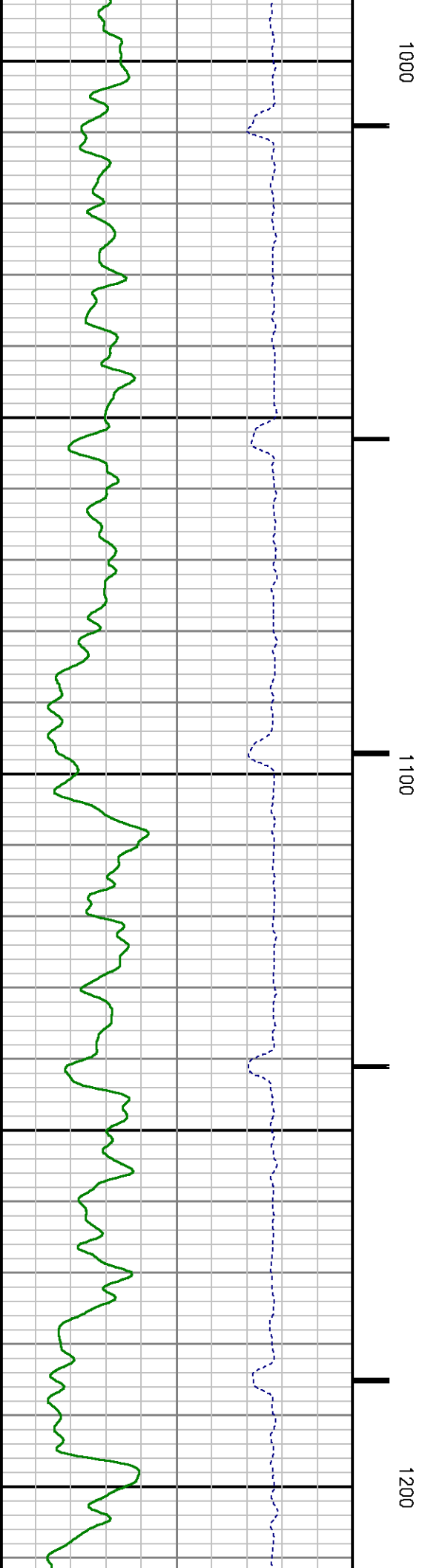
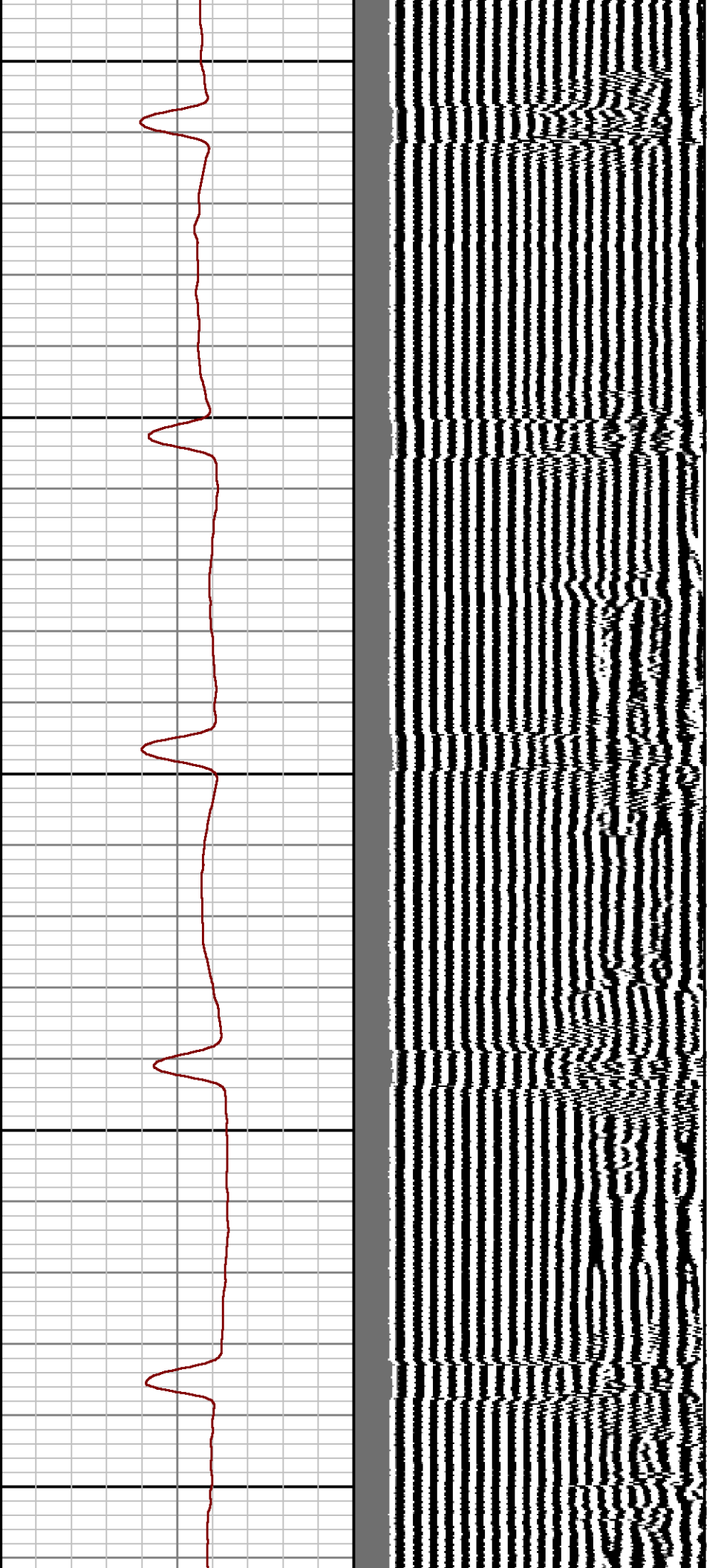


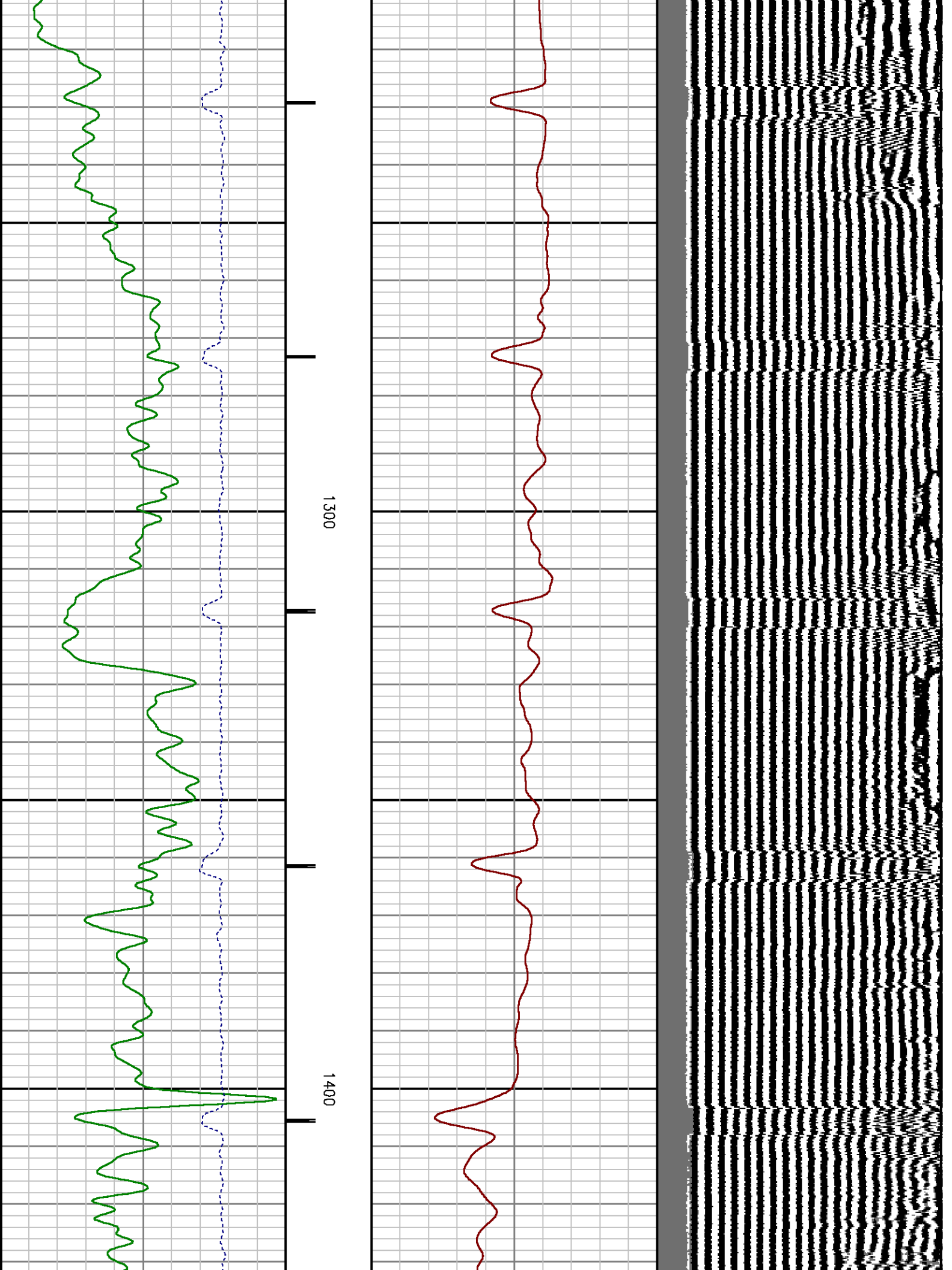


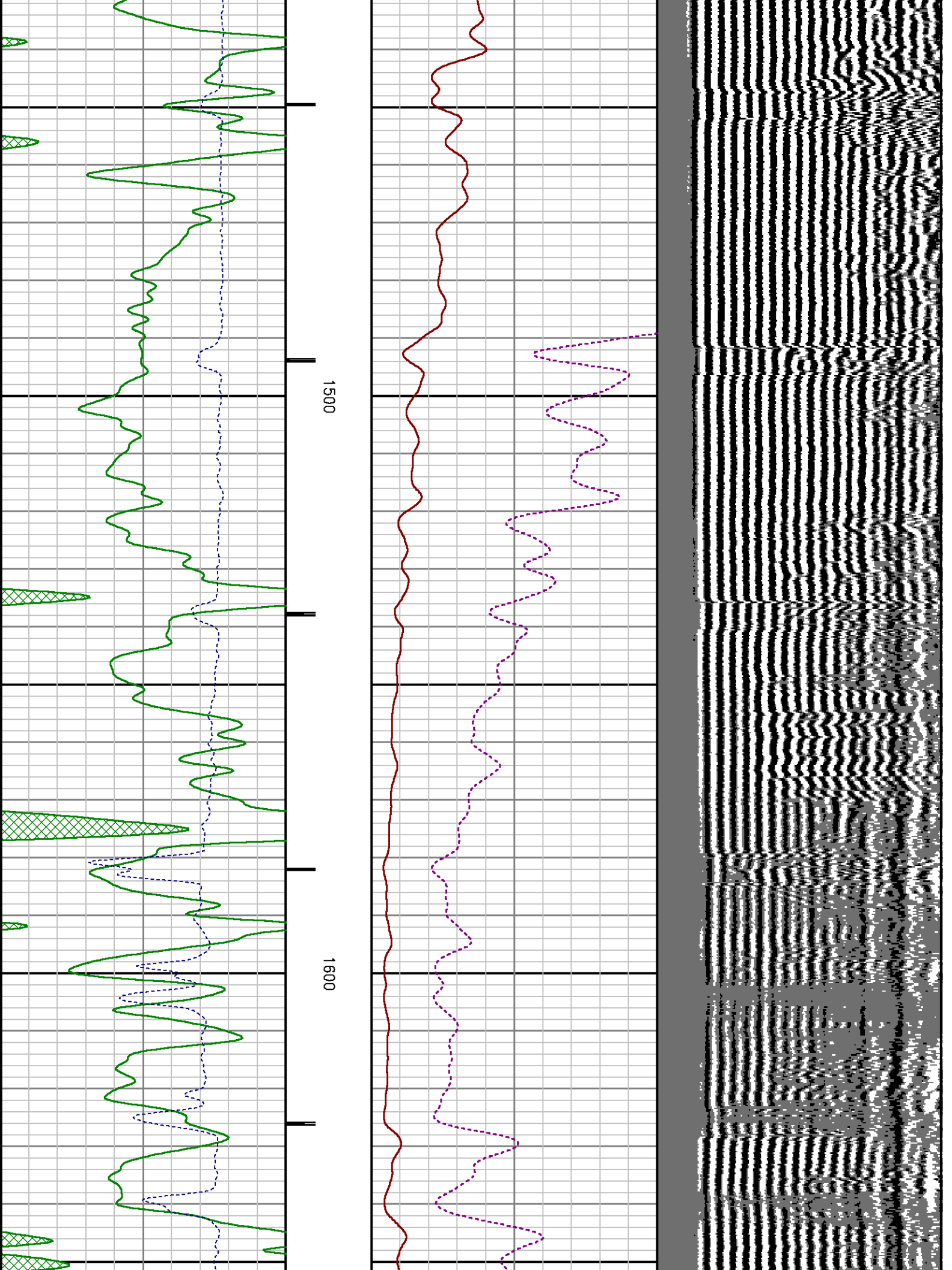


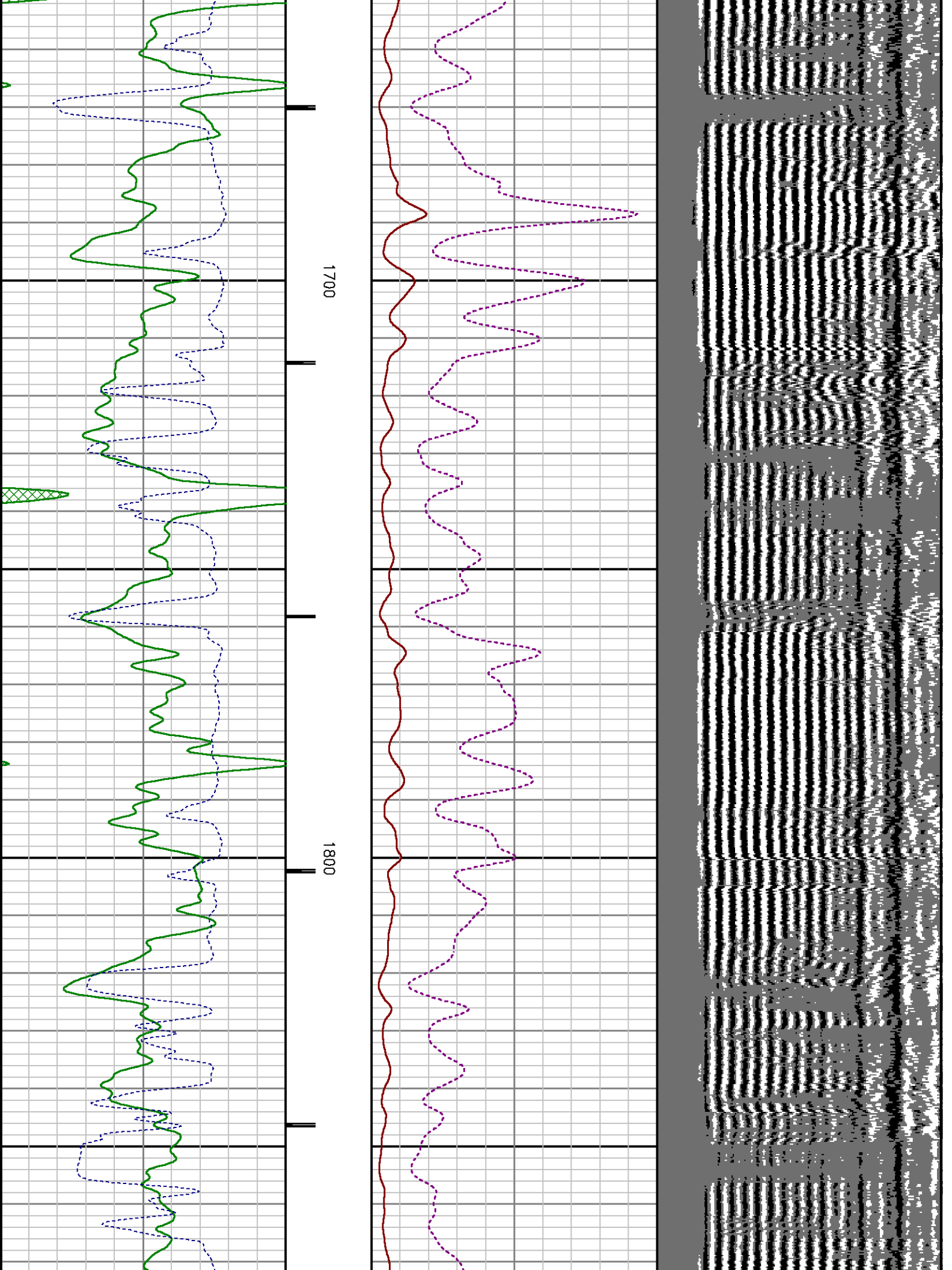


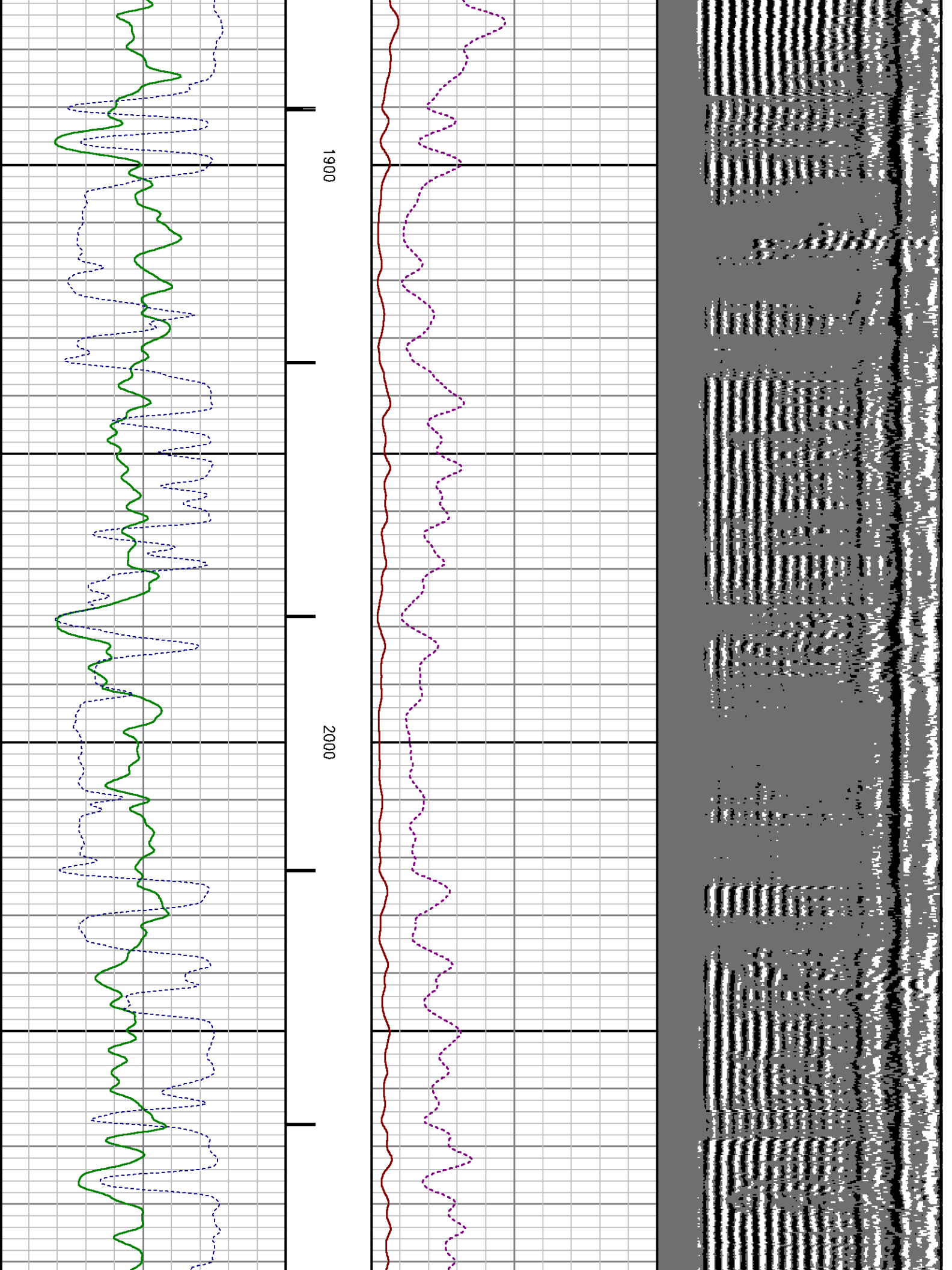


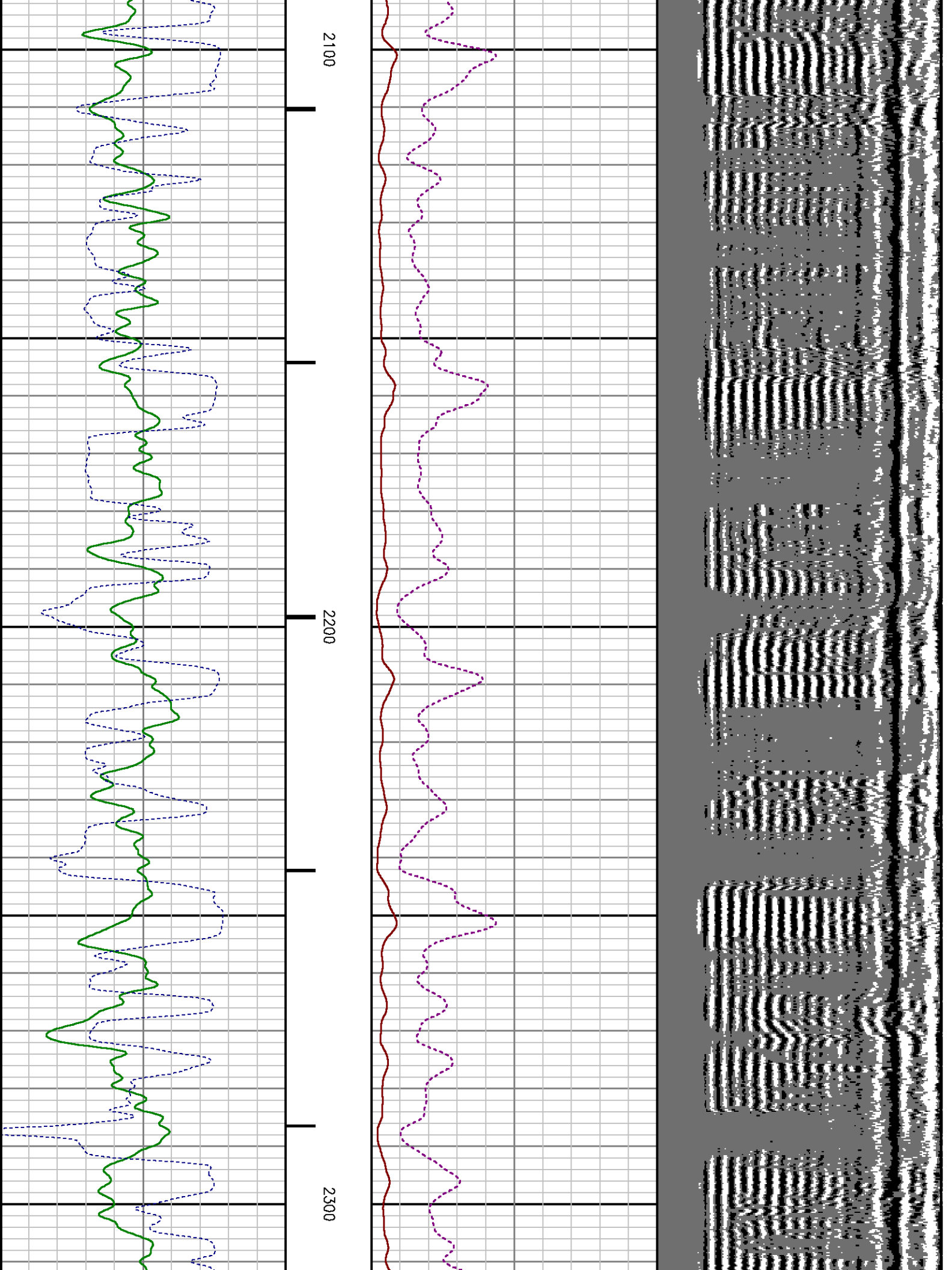


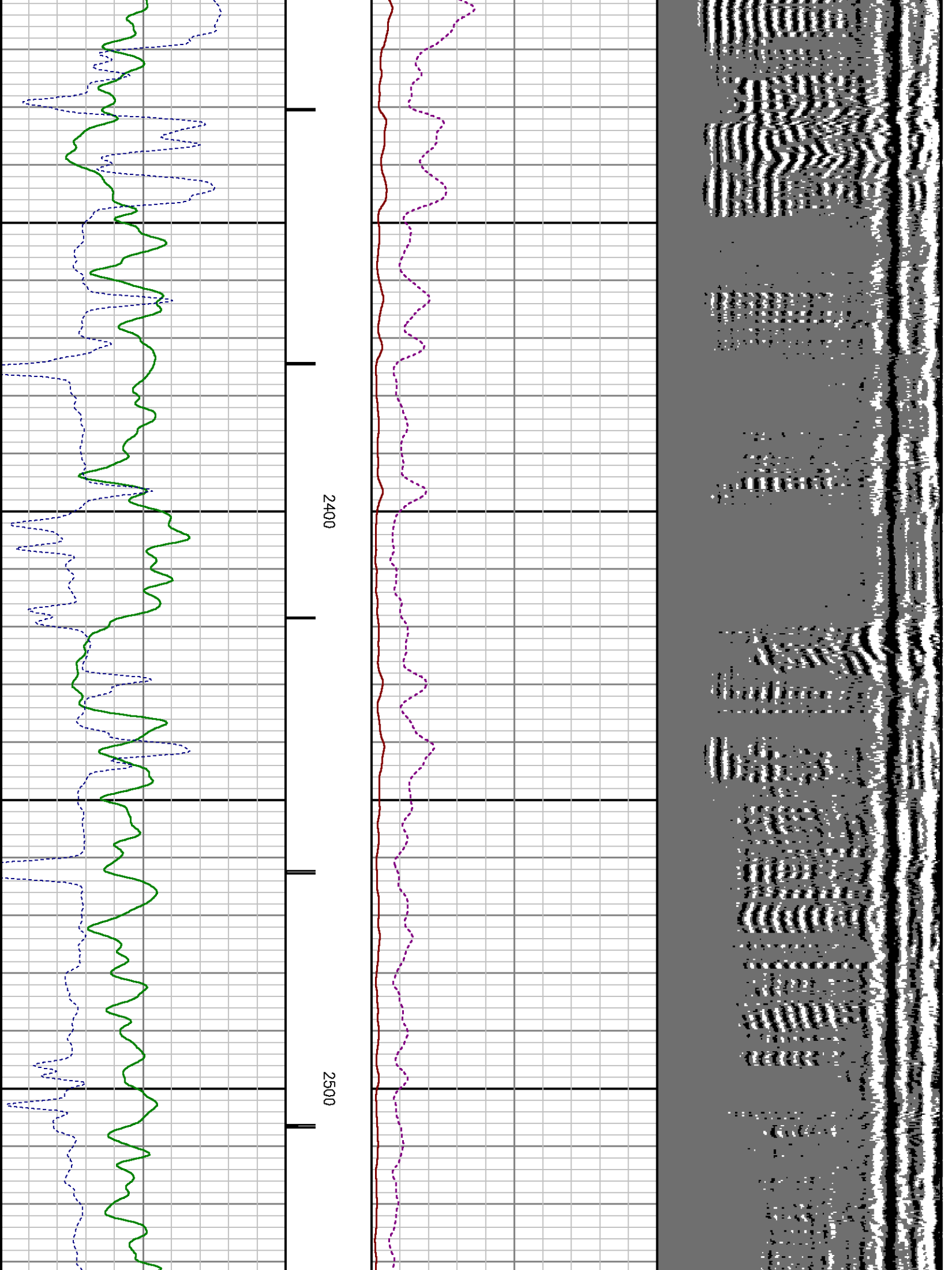


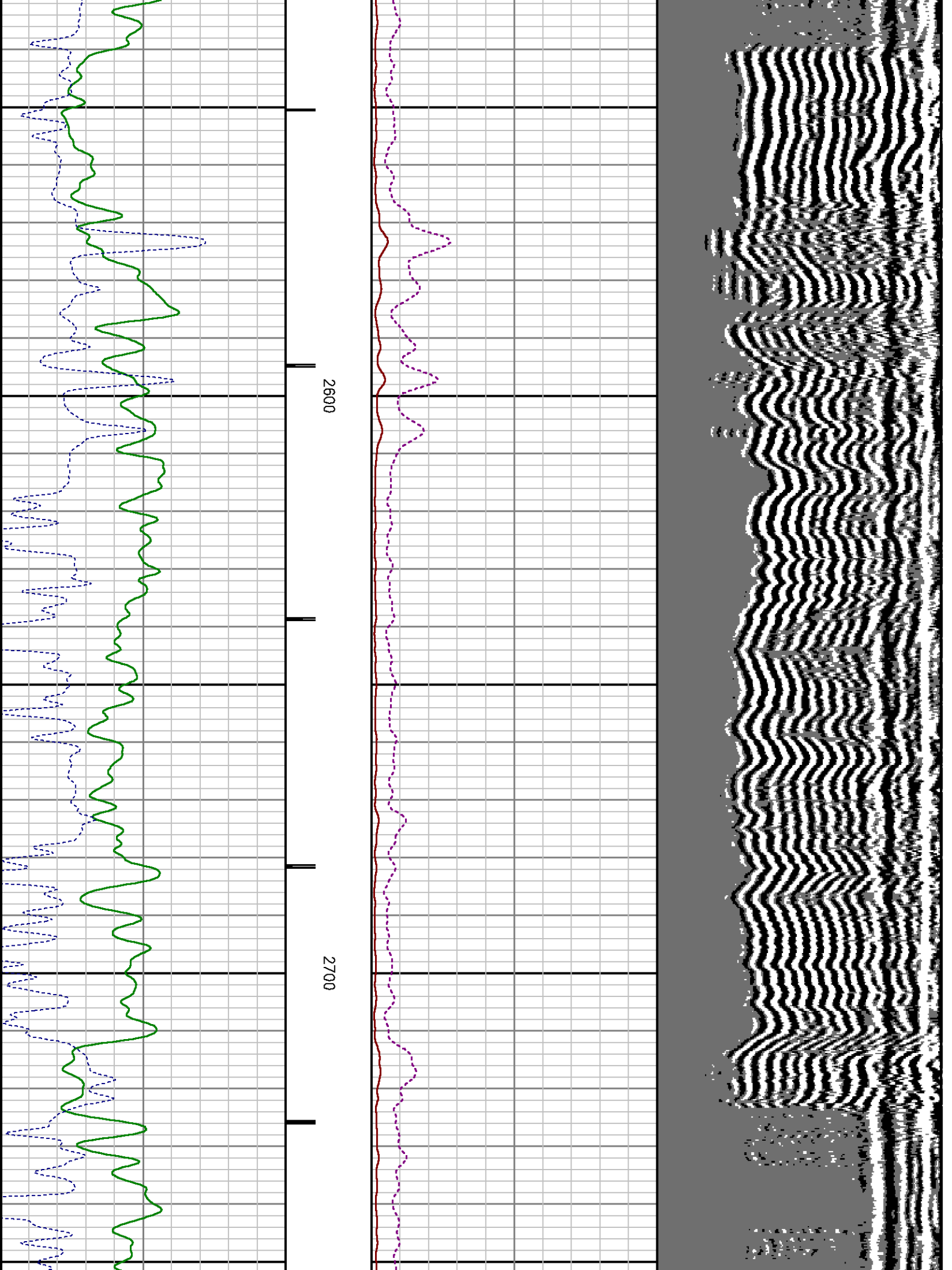


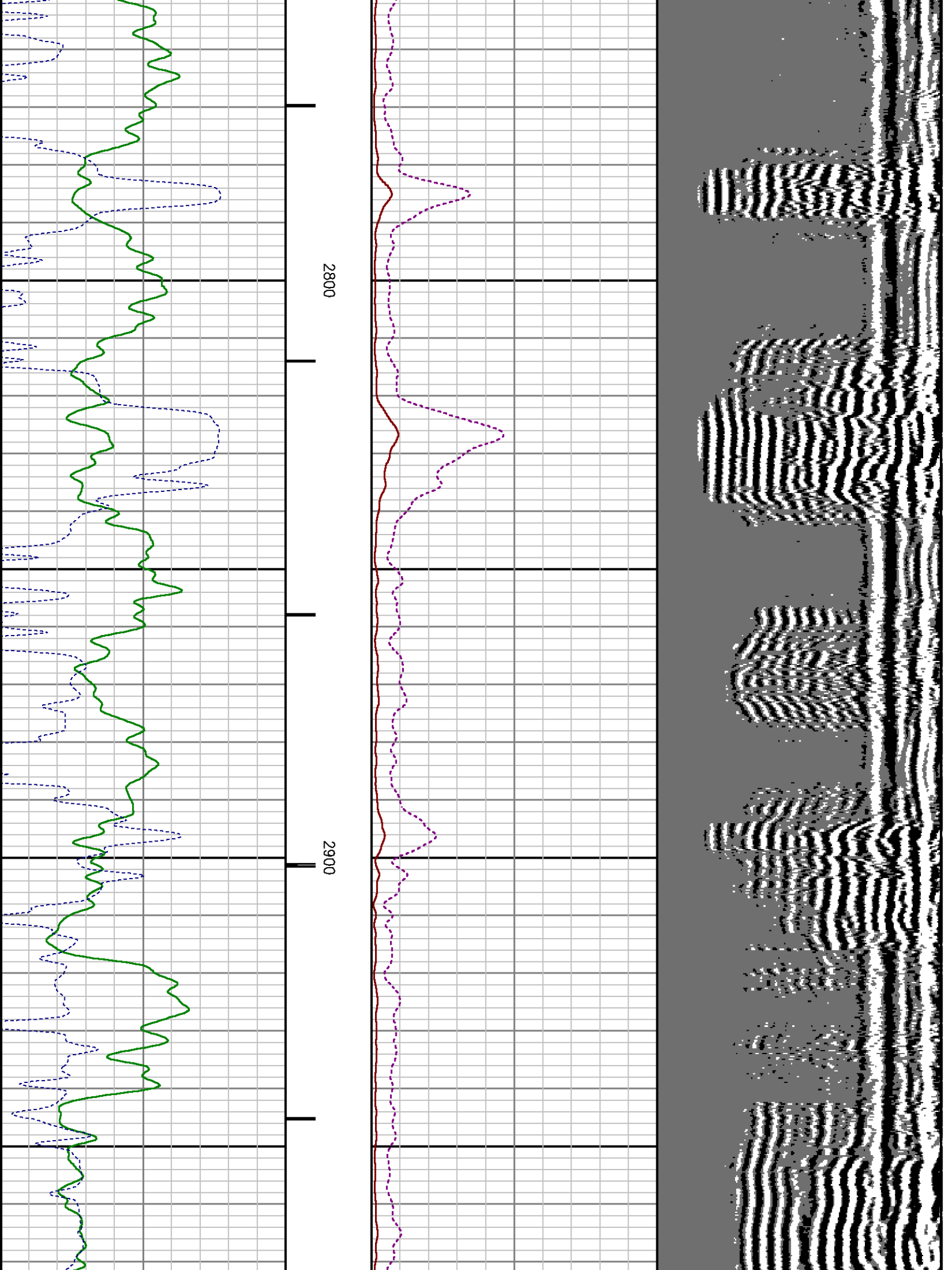


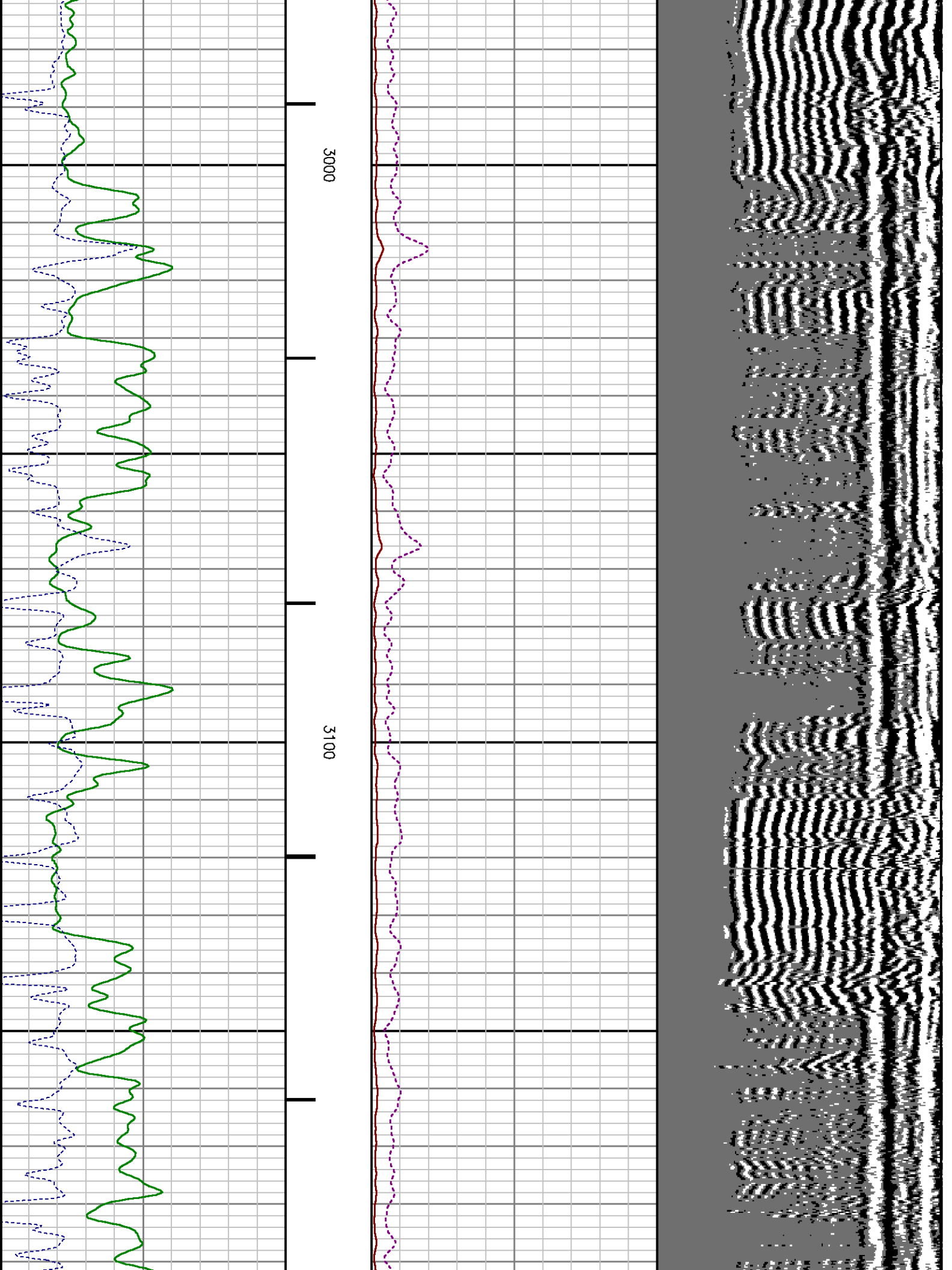


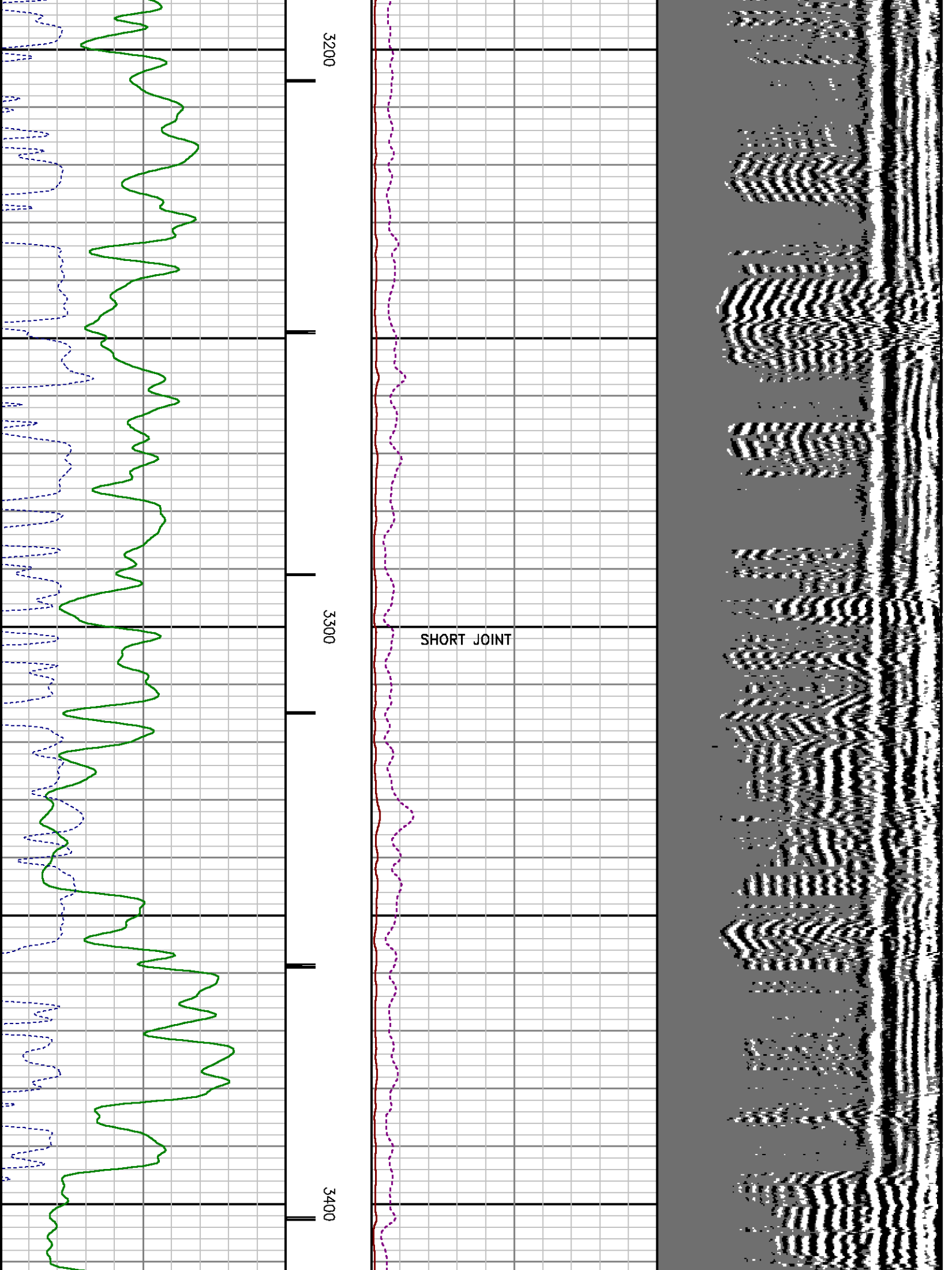


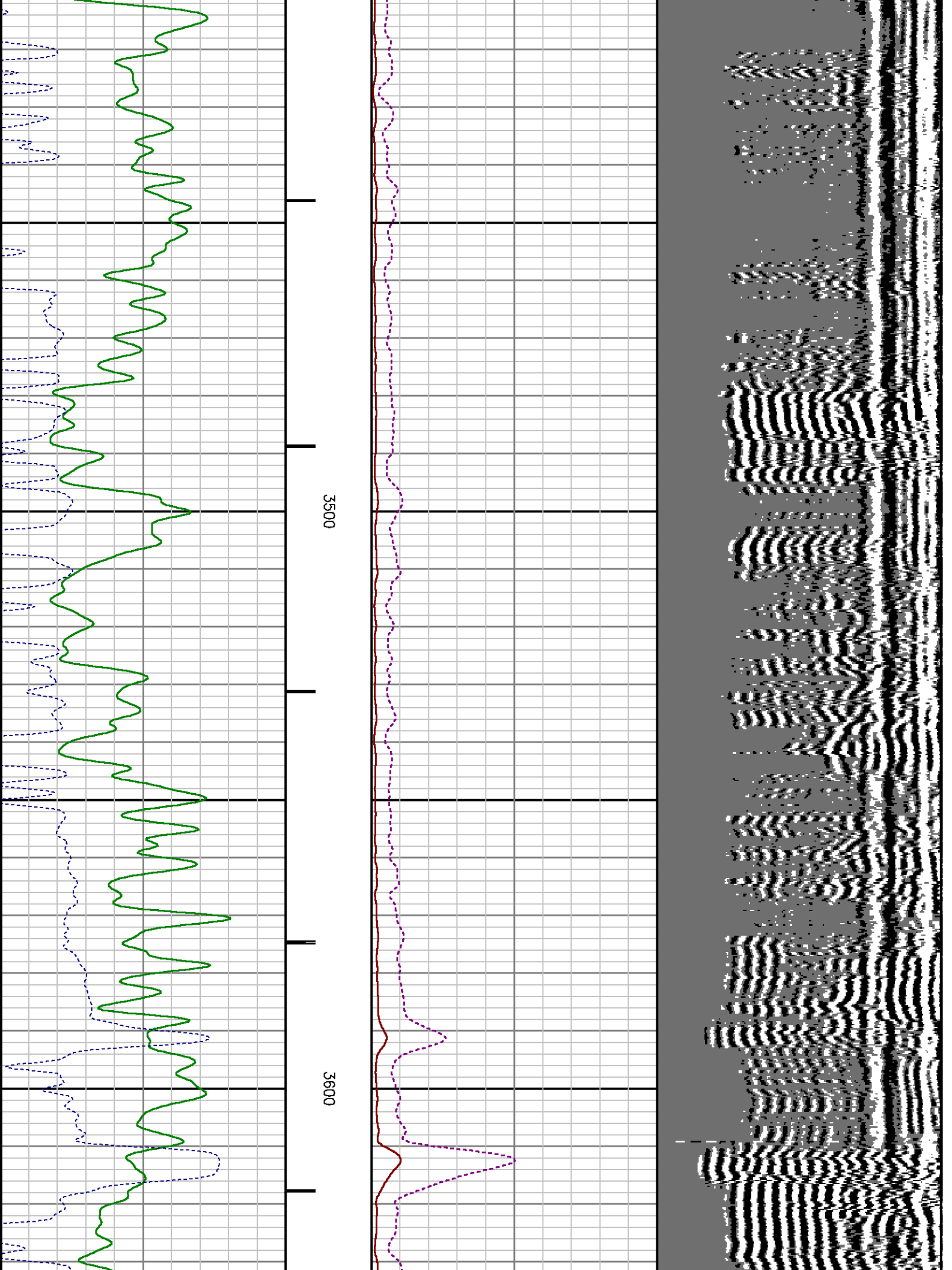


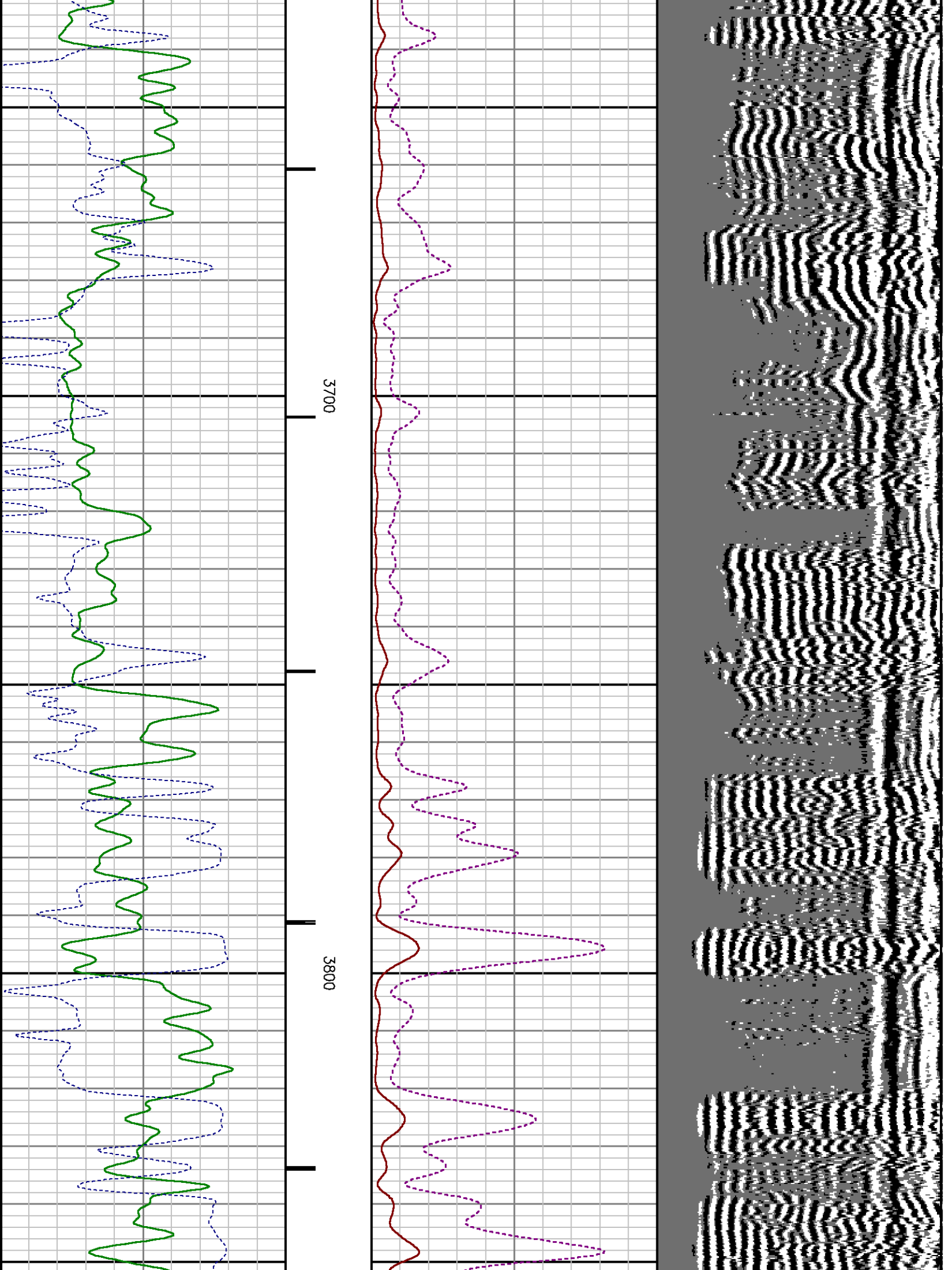


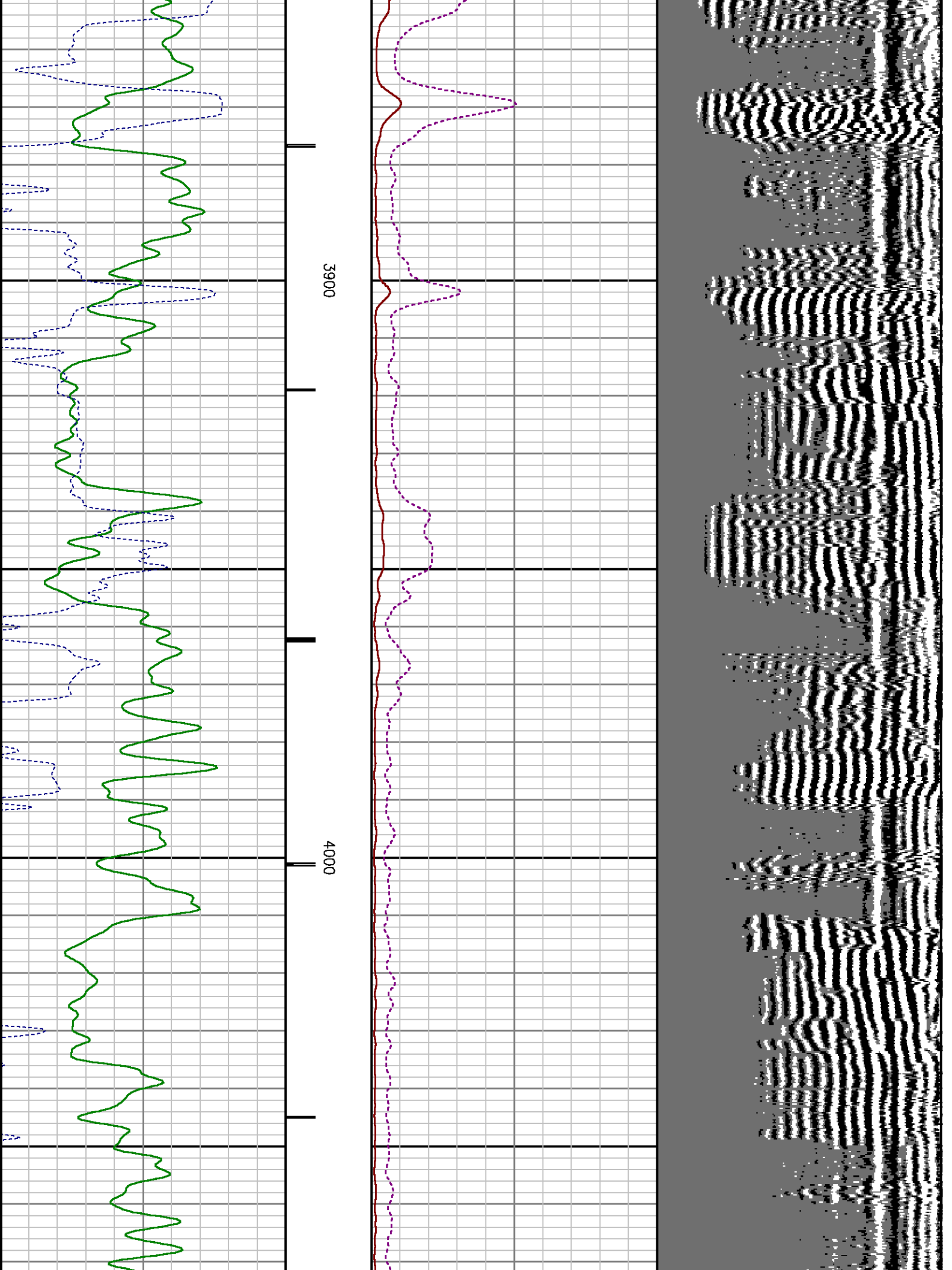


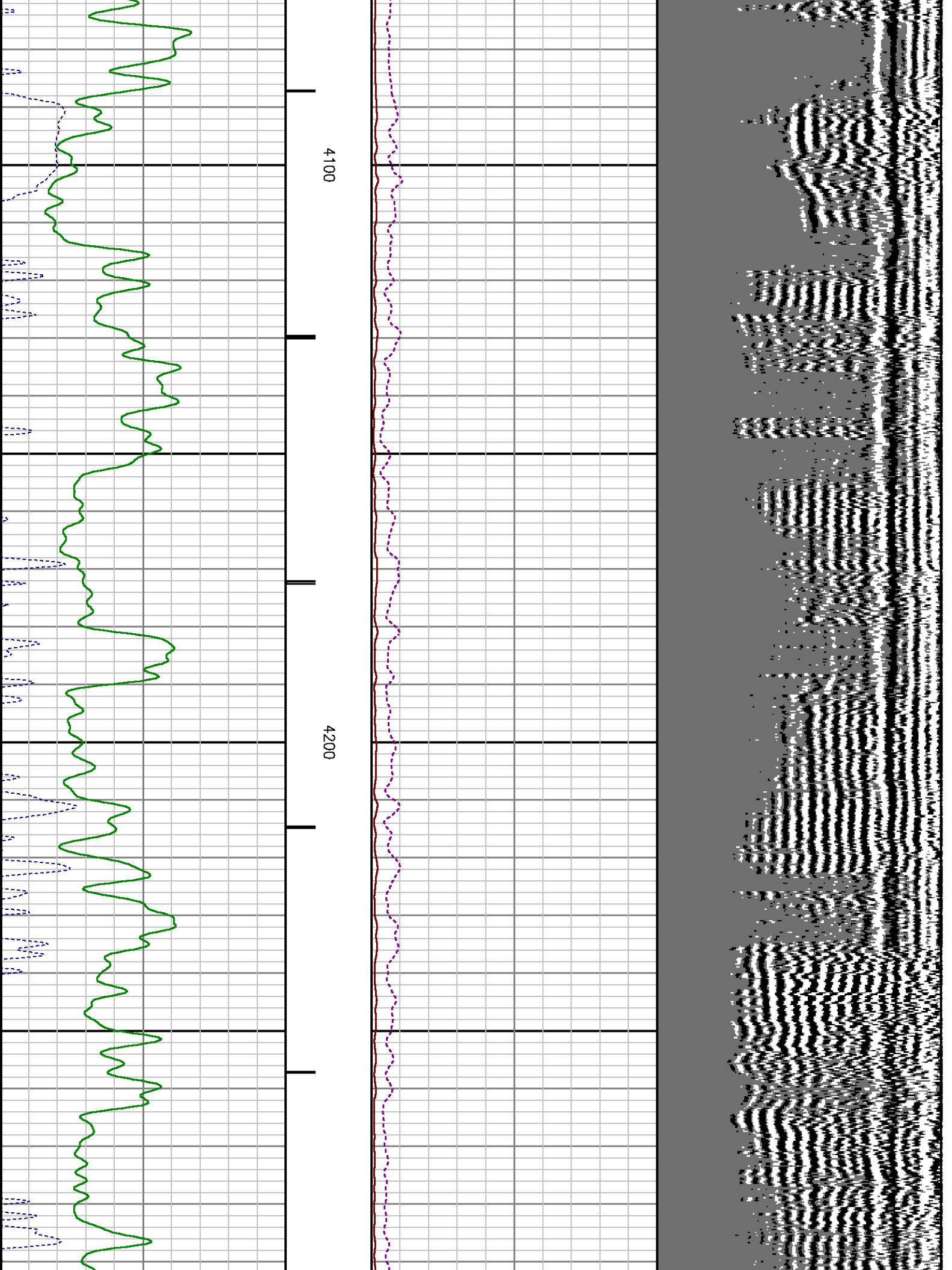


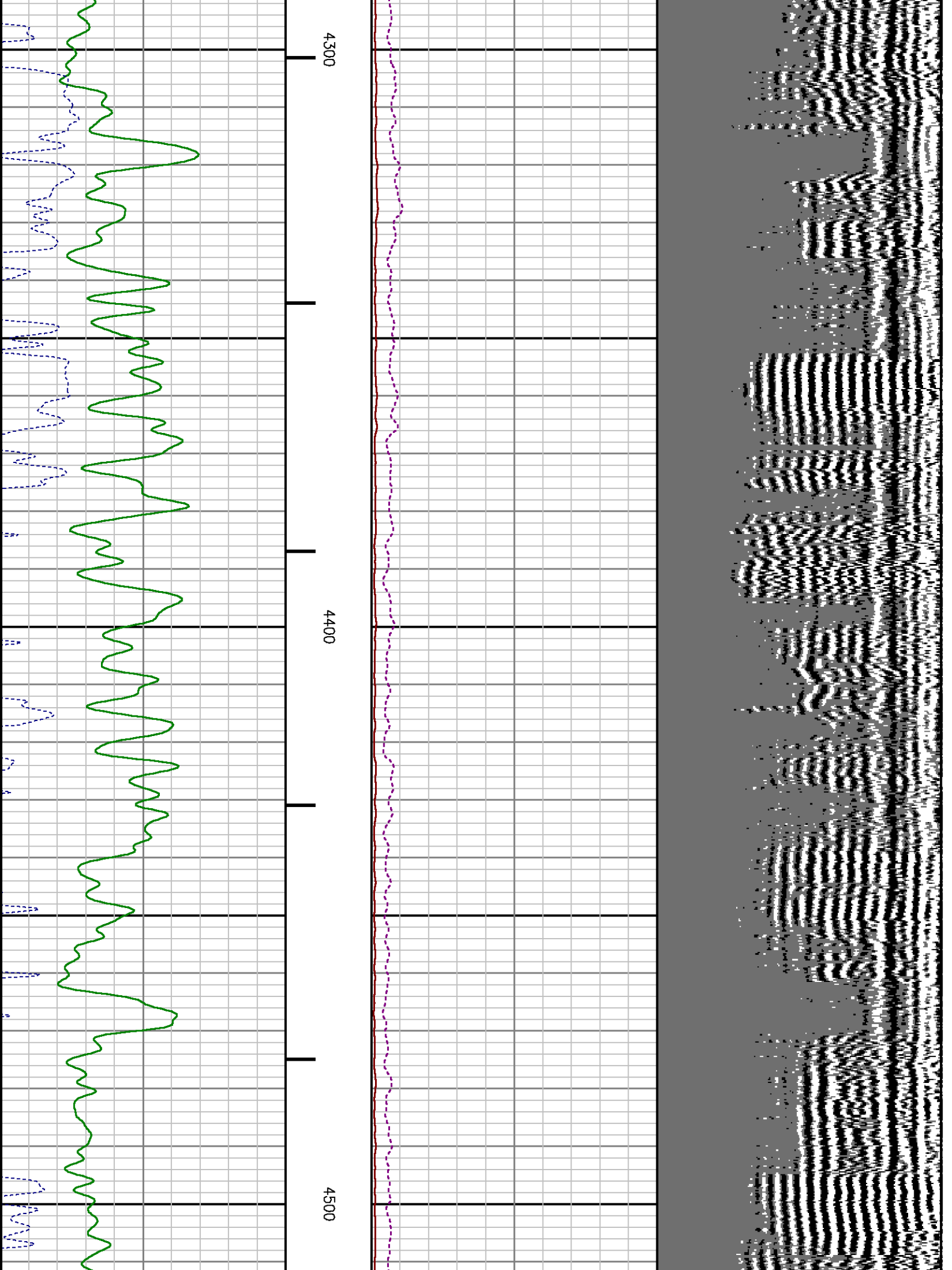


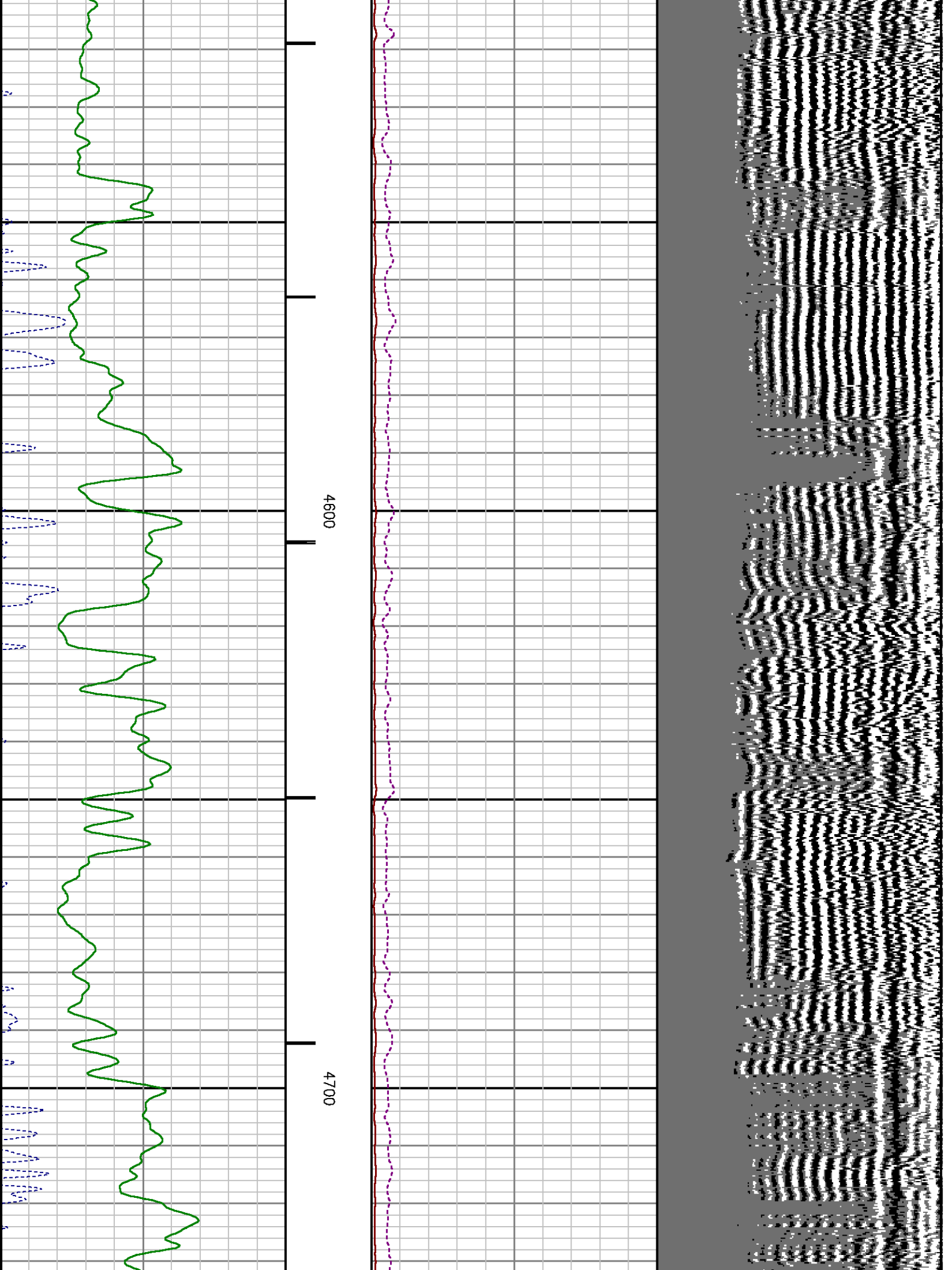


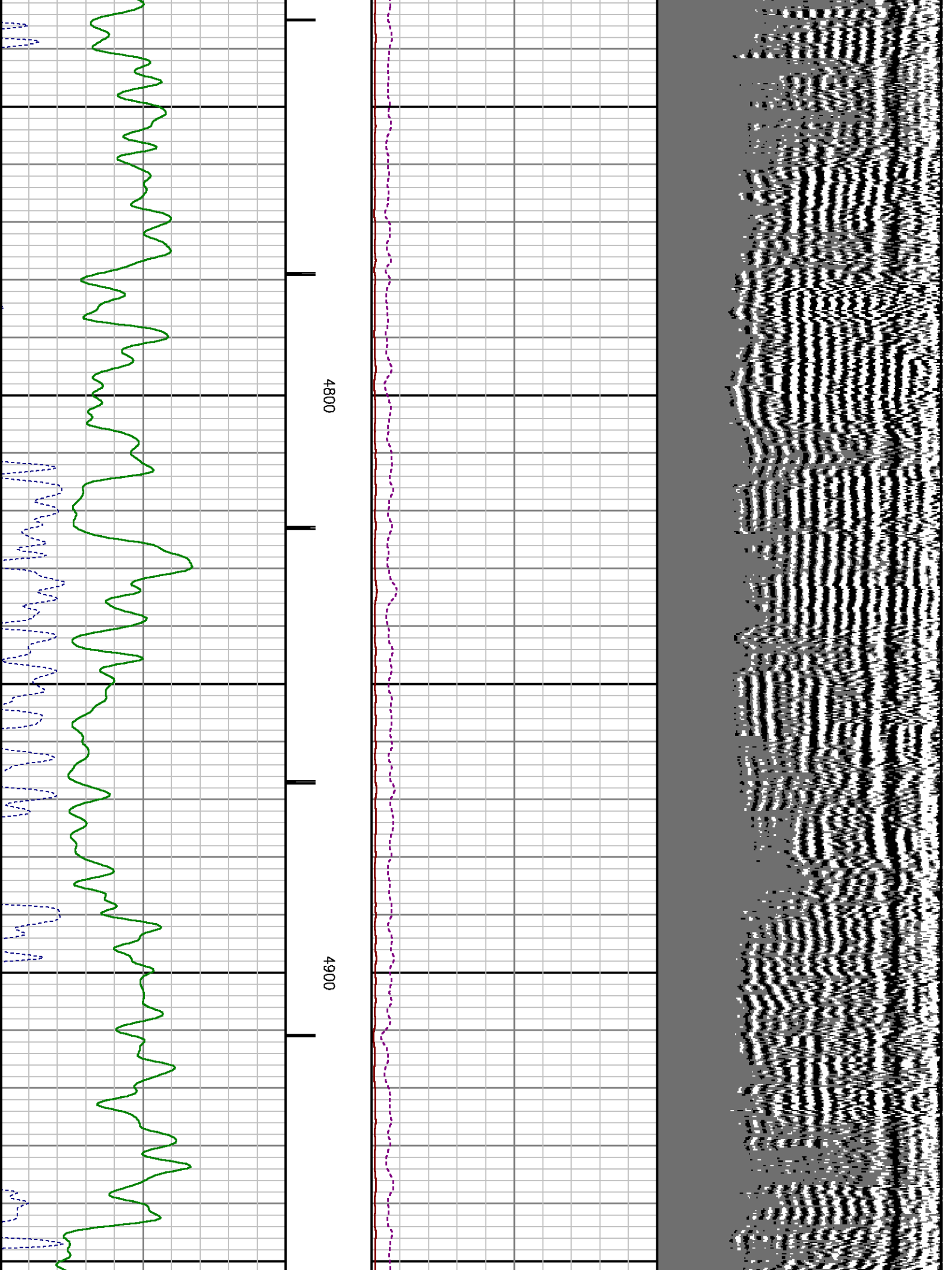


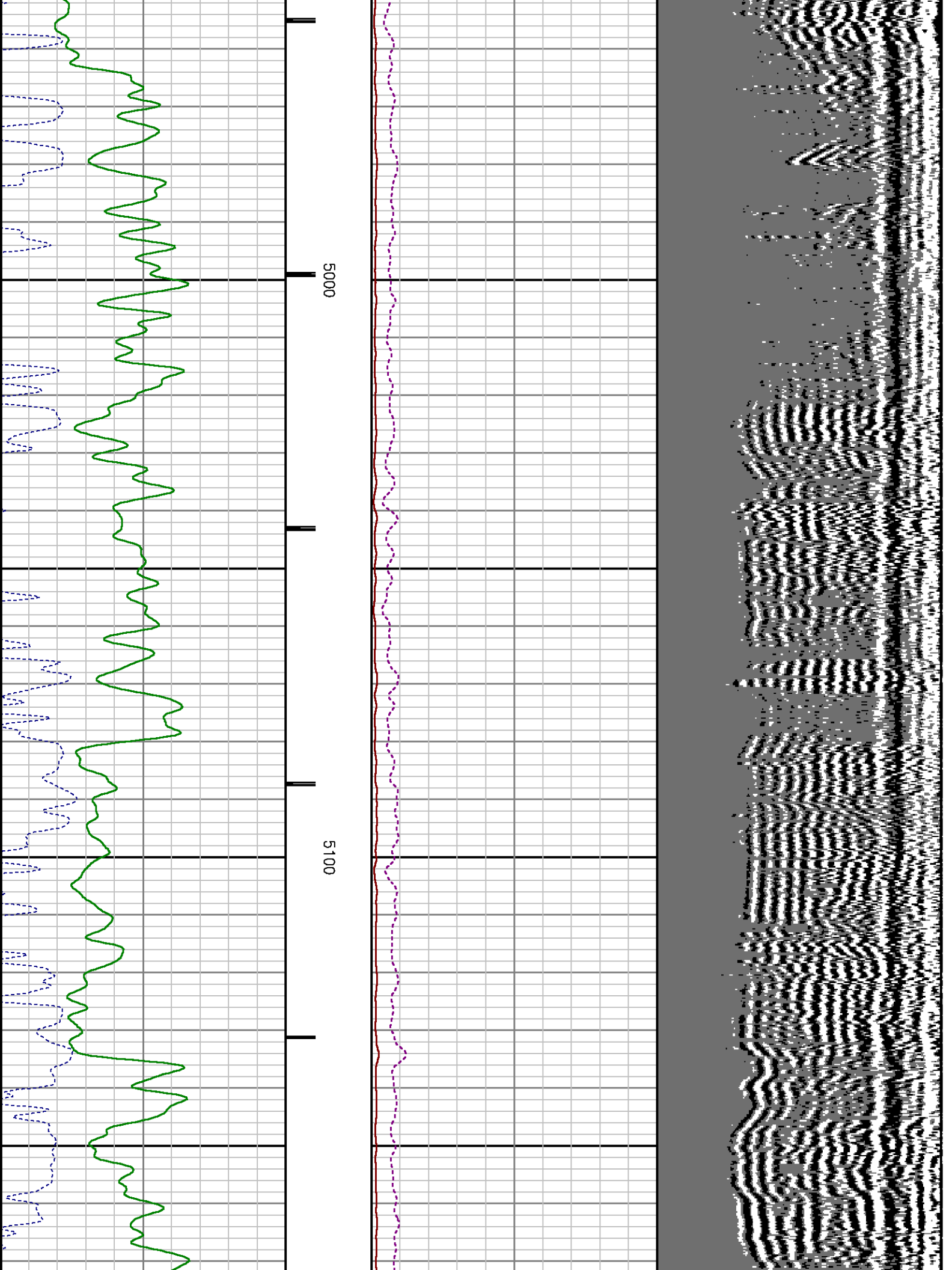


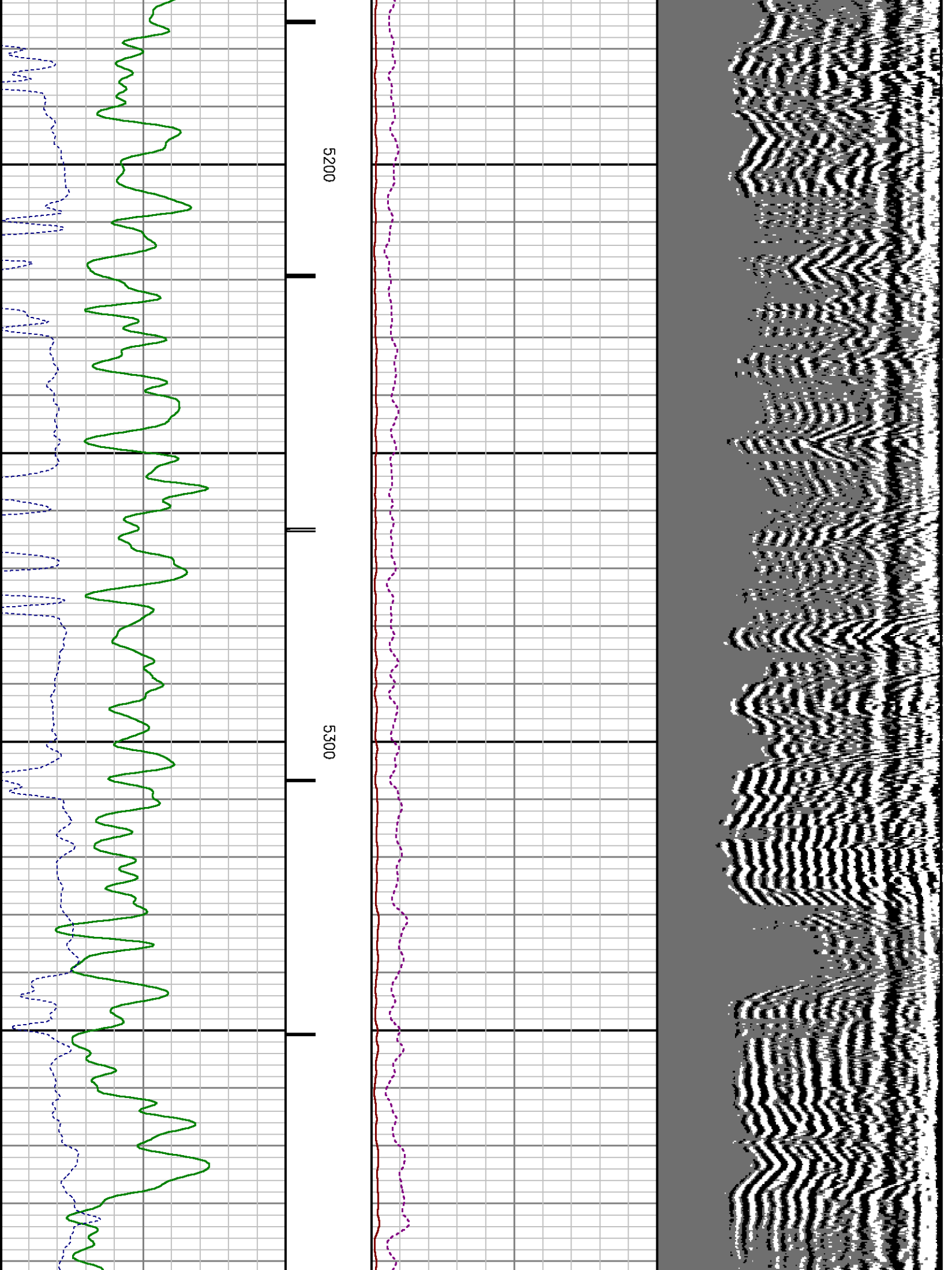


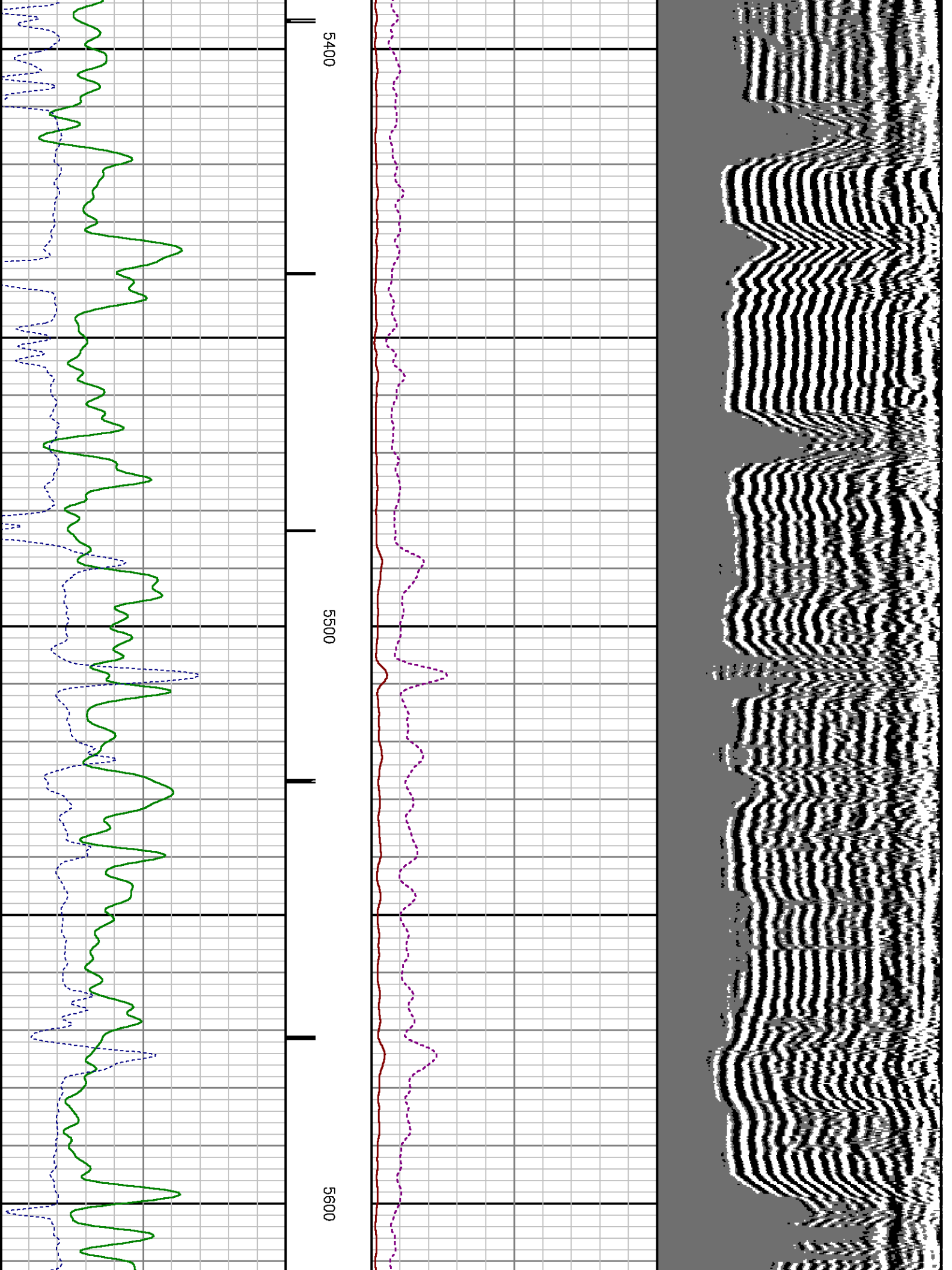


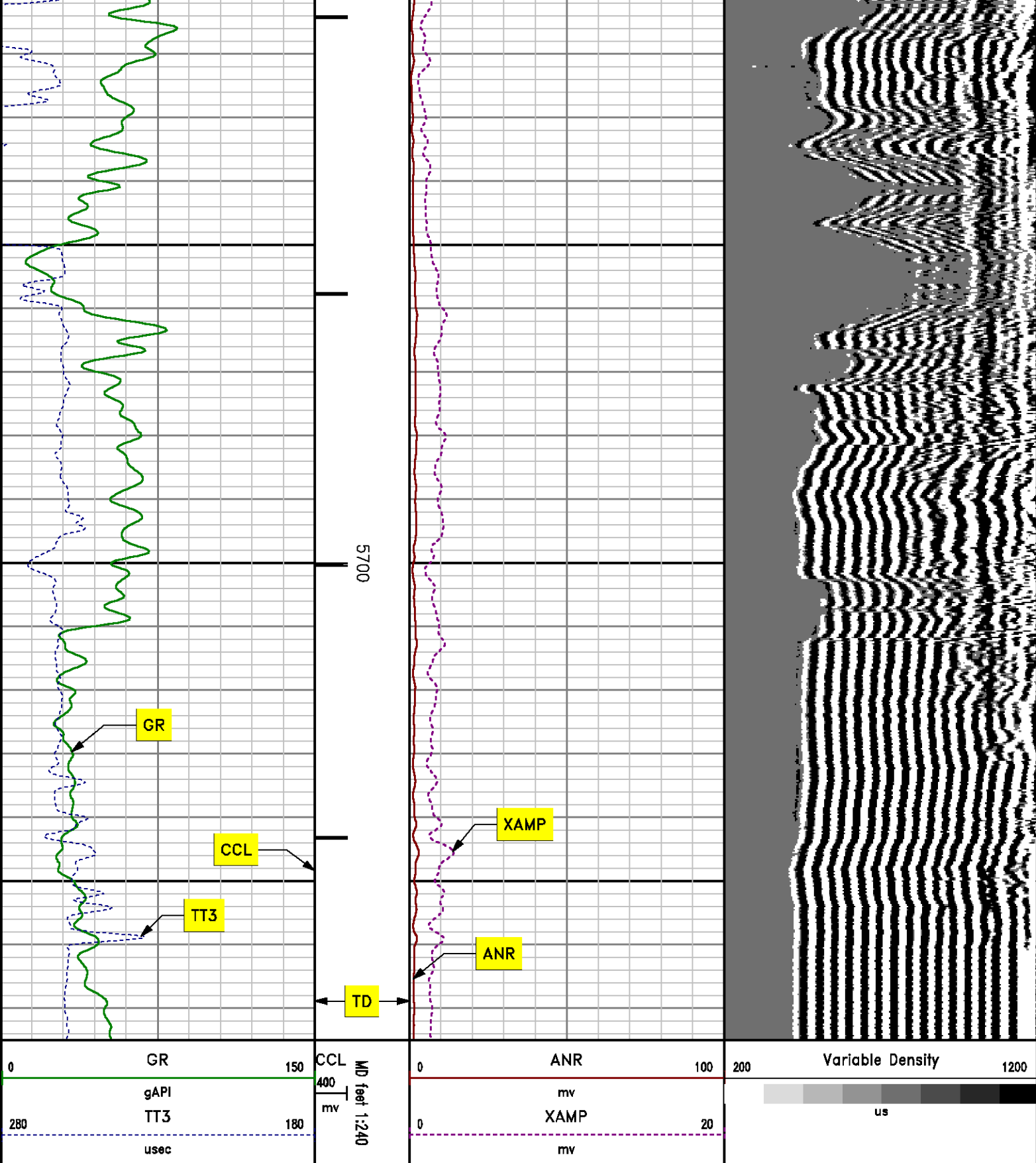












MAIN LOG SECONDARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	309.409	usec	30.343	5789.250
RAL	Amp Gate Start Near	200.391	usec	30.343	5789.250
RAL	Amp Gate Start Radial	200.391	usec	30.343	5789.250
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RAL	FB Thresh Radial	4.000	mv	30.343	5789.250
RAL	Fluid Travel Time	200.000	usec/ft	30.343	5788.843

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					

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Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

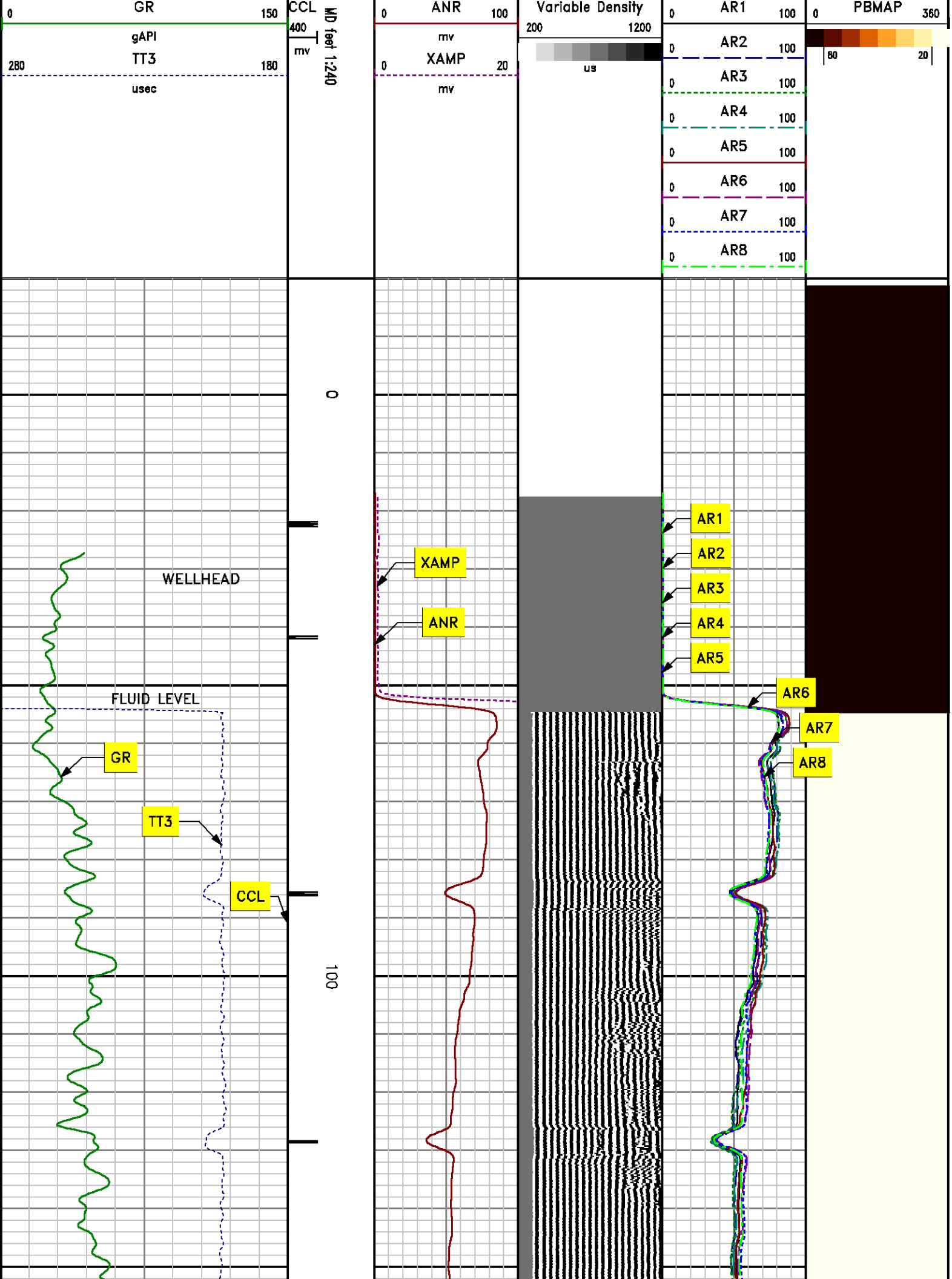
Well : STRAIT SG 41-22

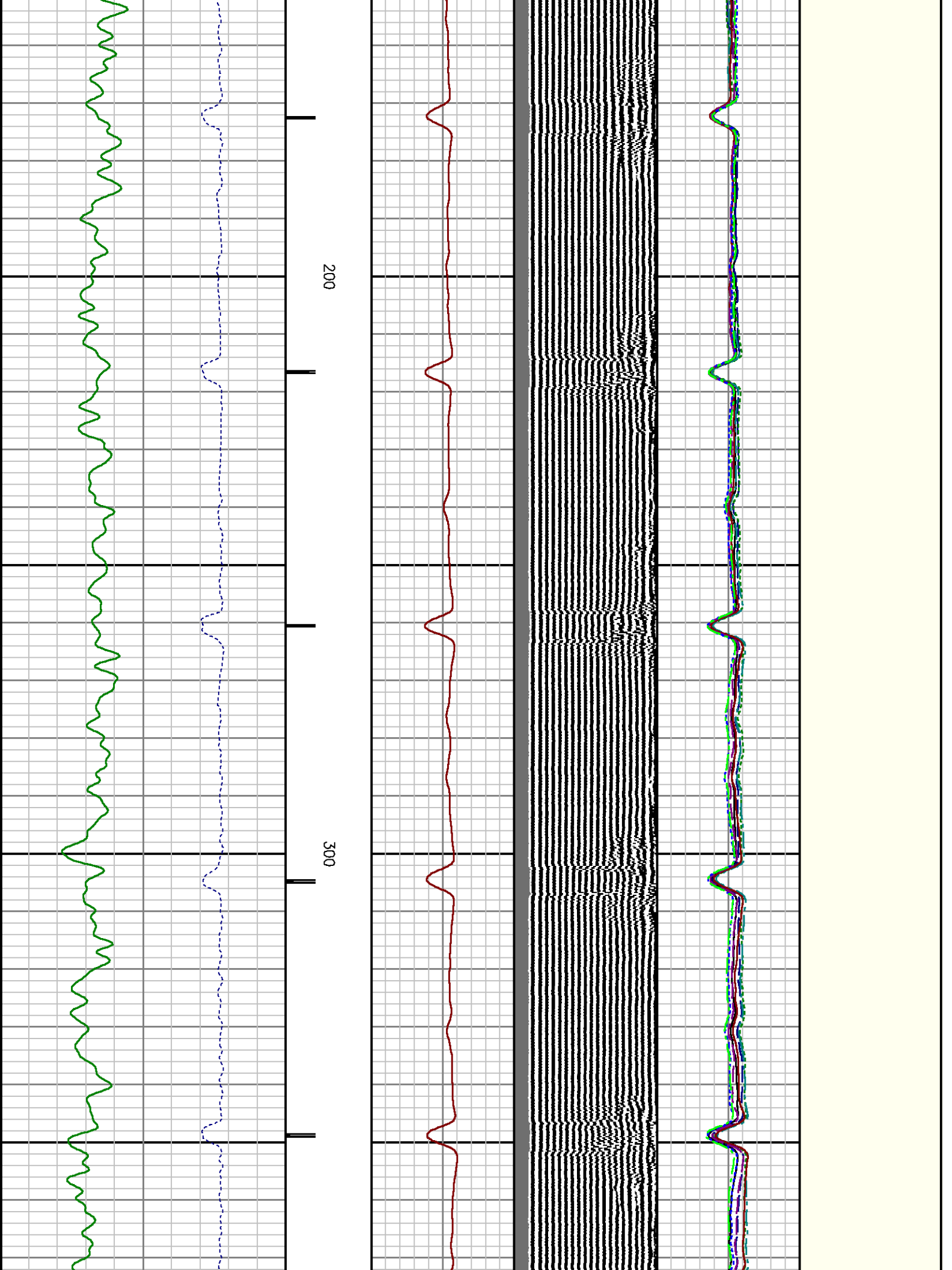
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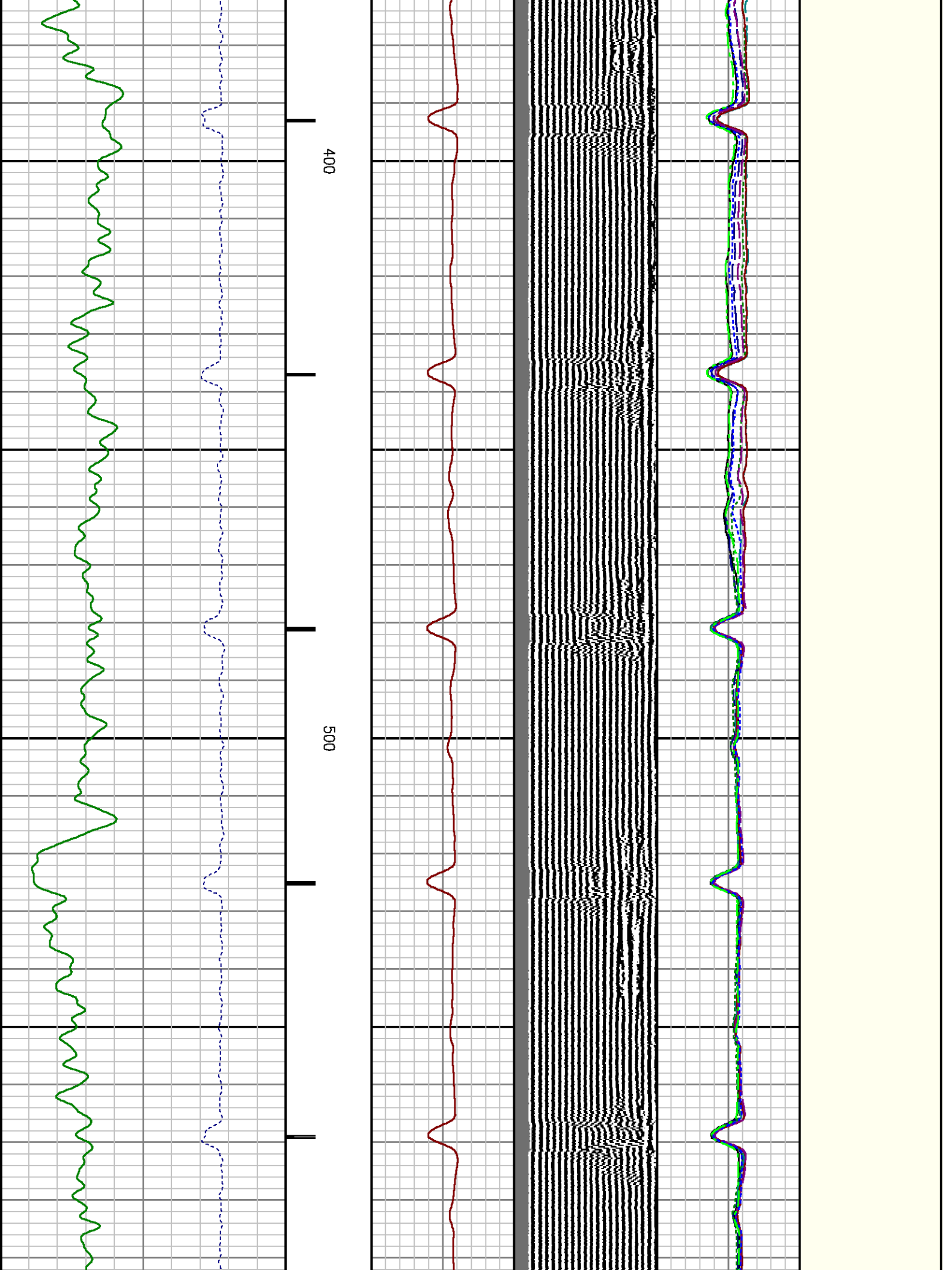
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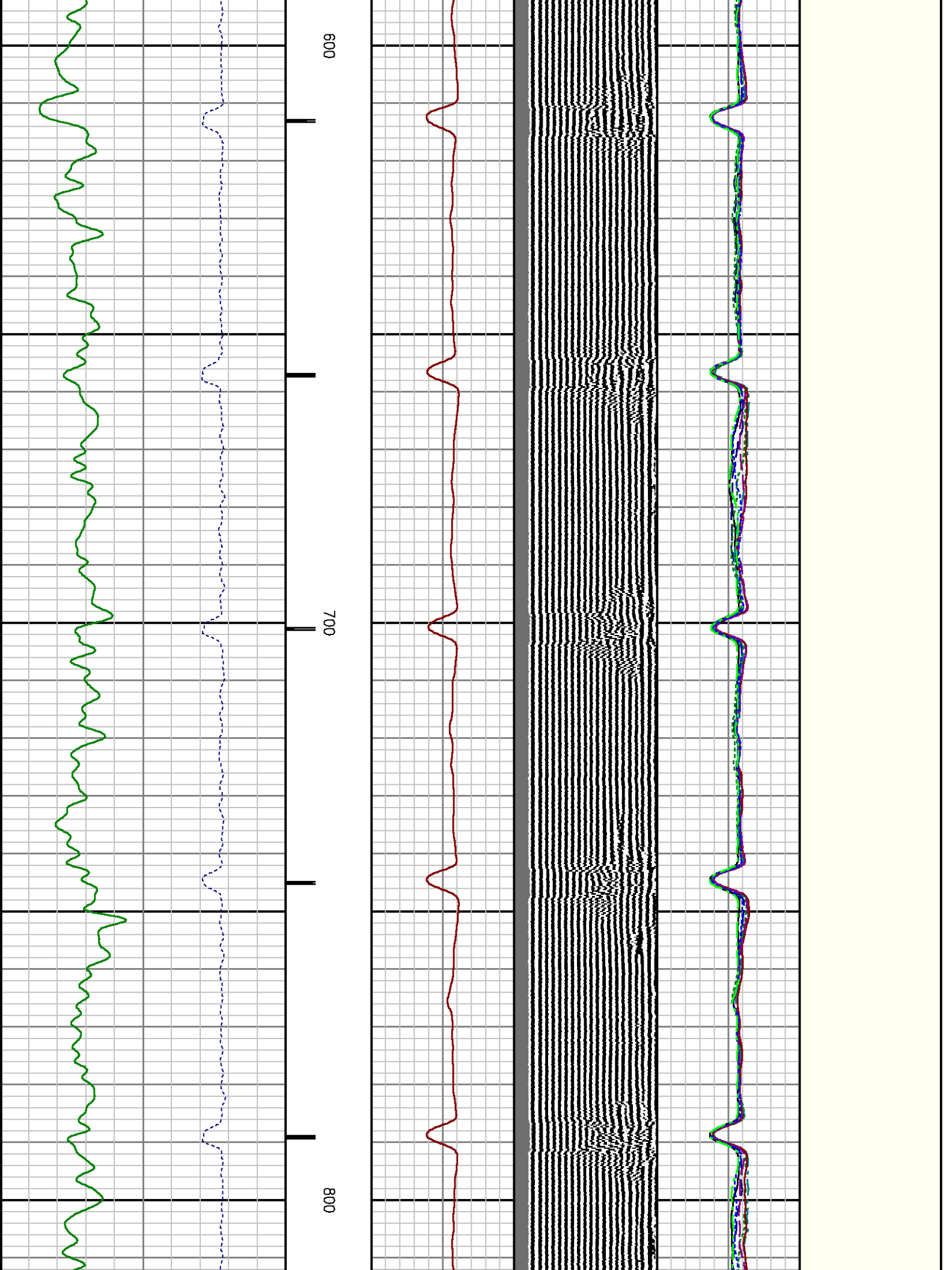
Interval : -20.00 - 5775.00 feet UP

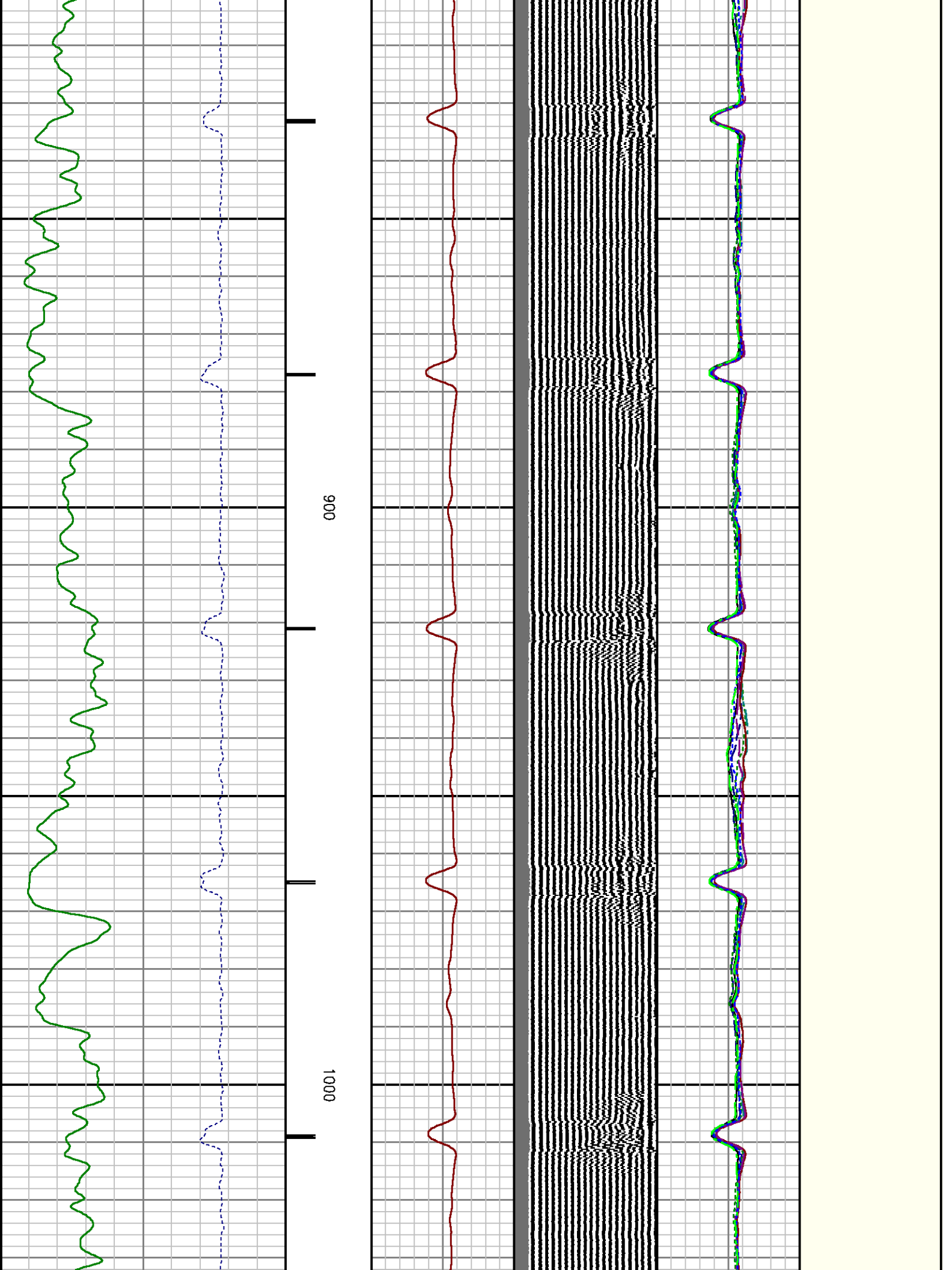
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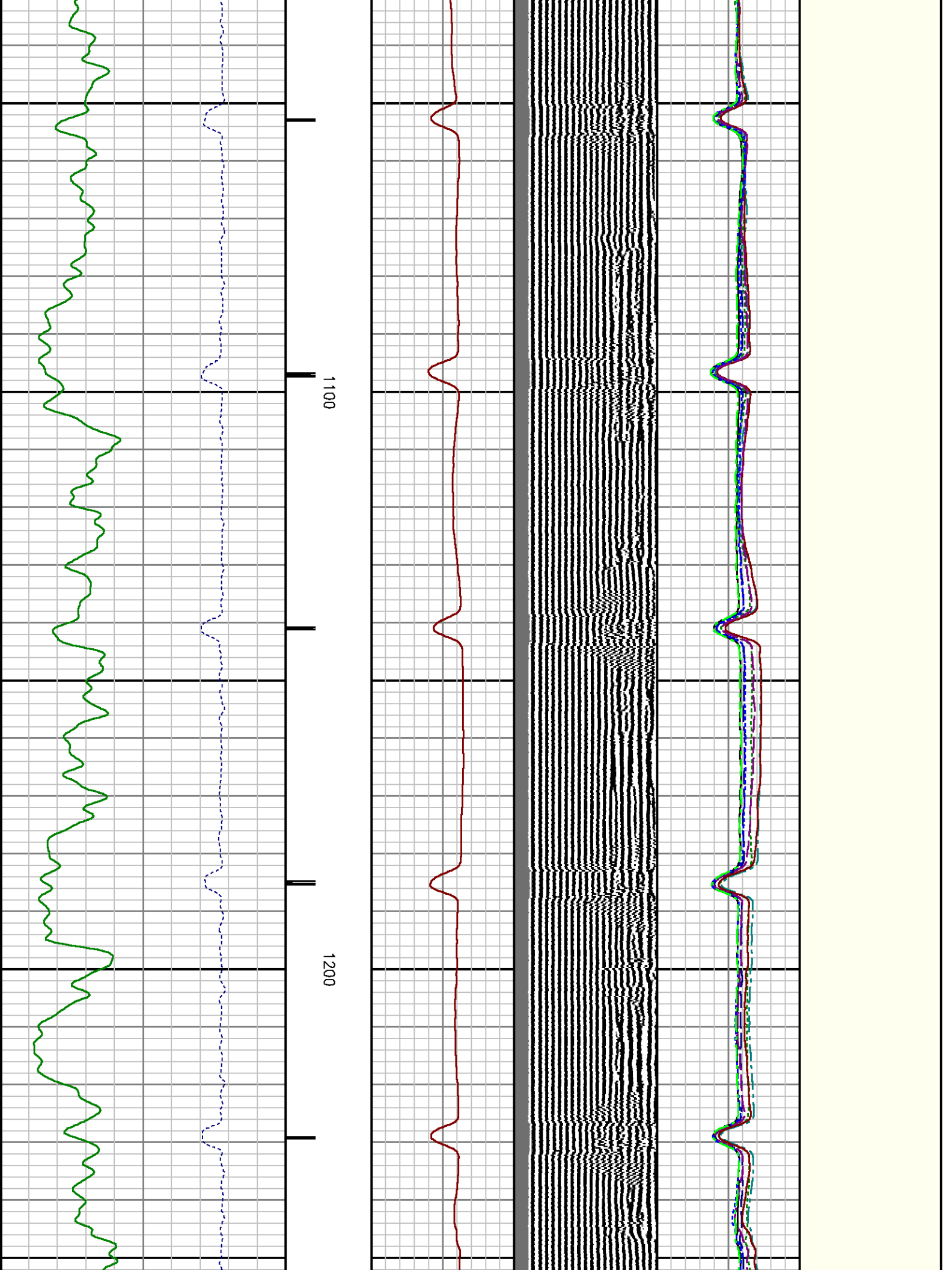


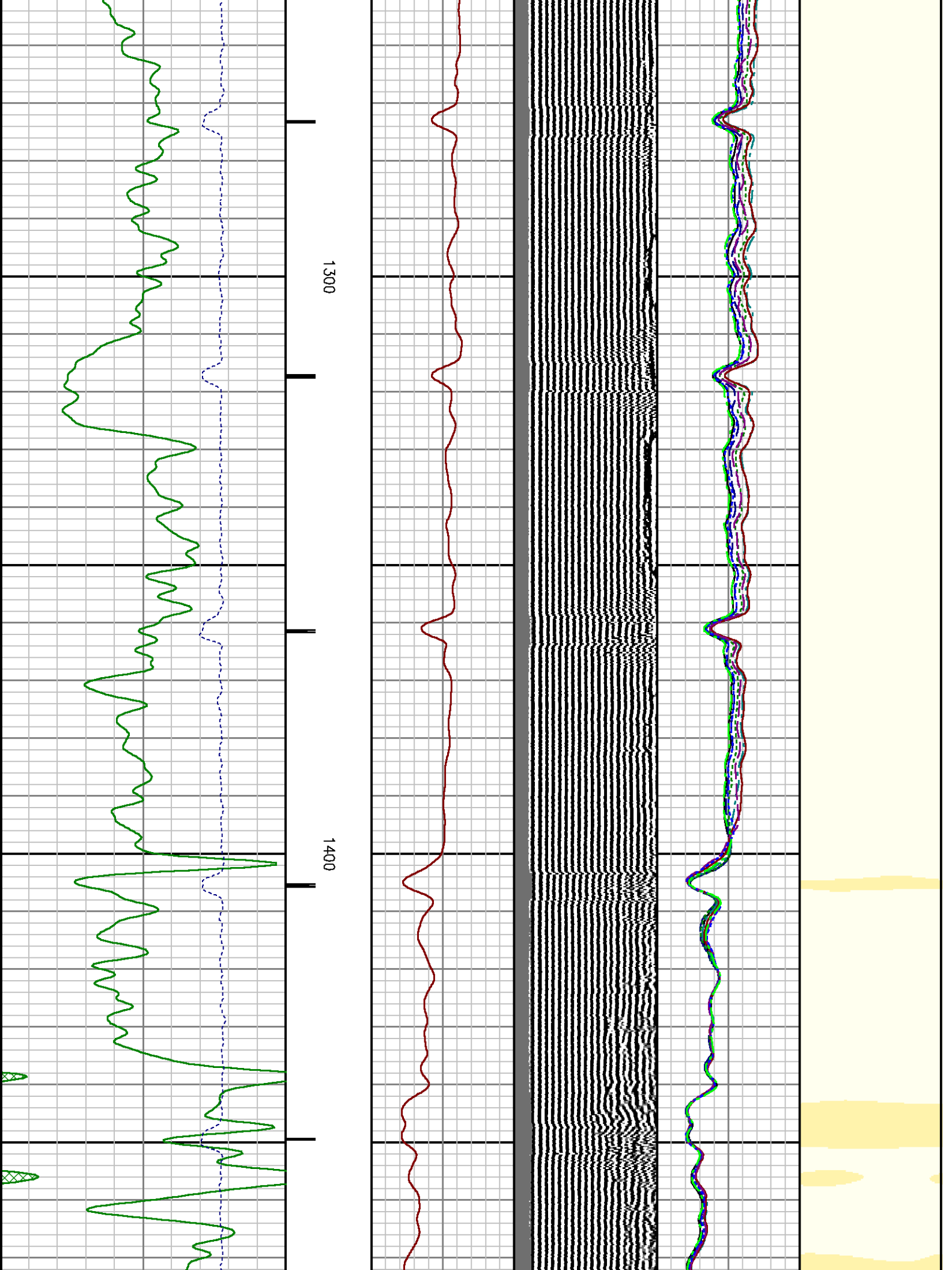


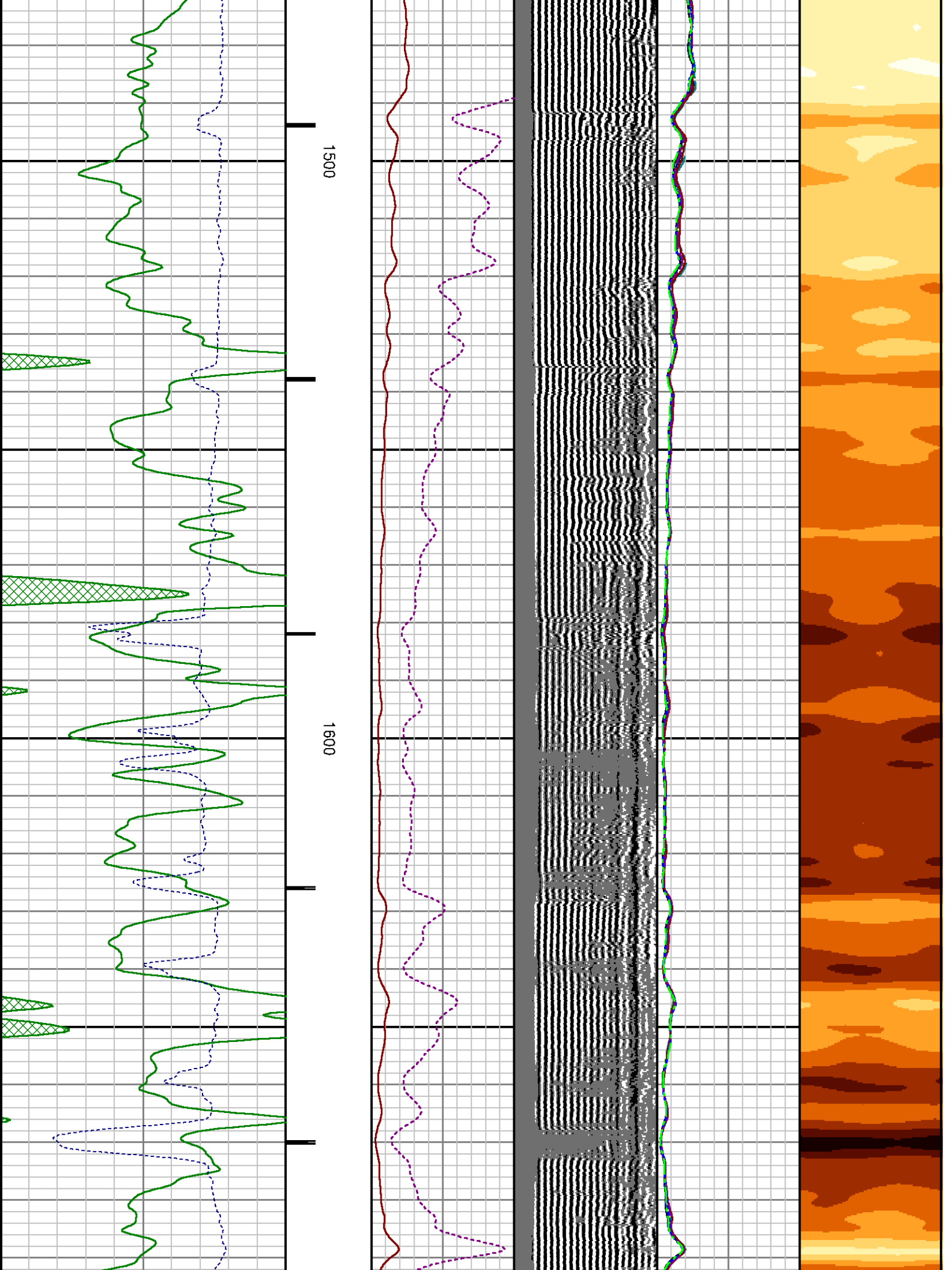


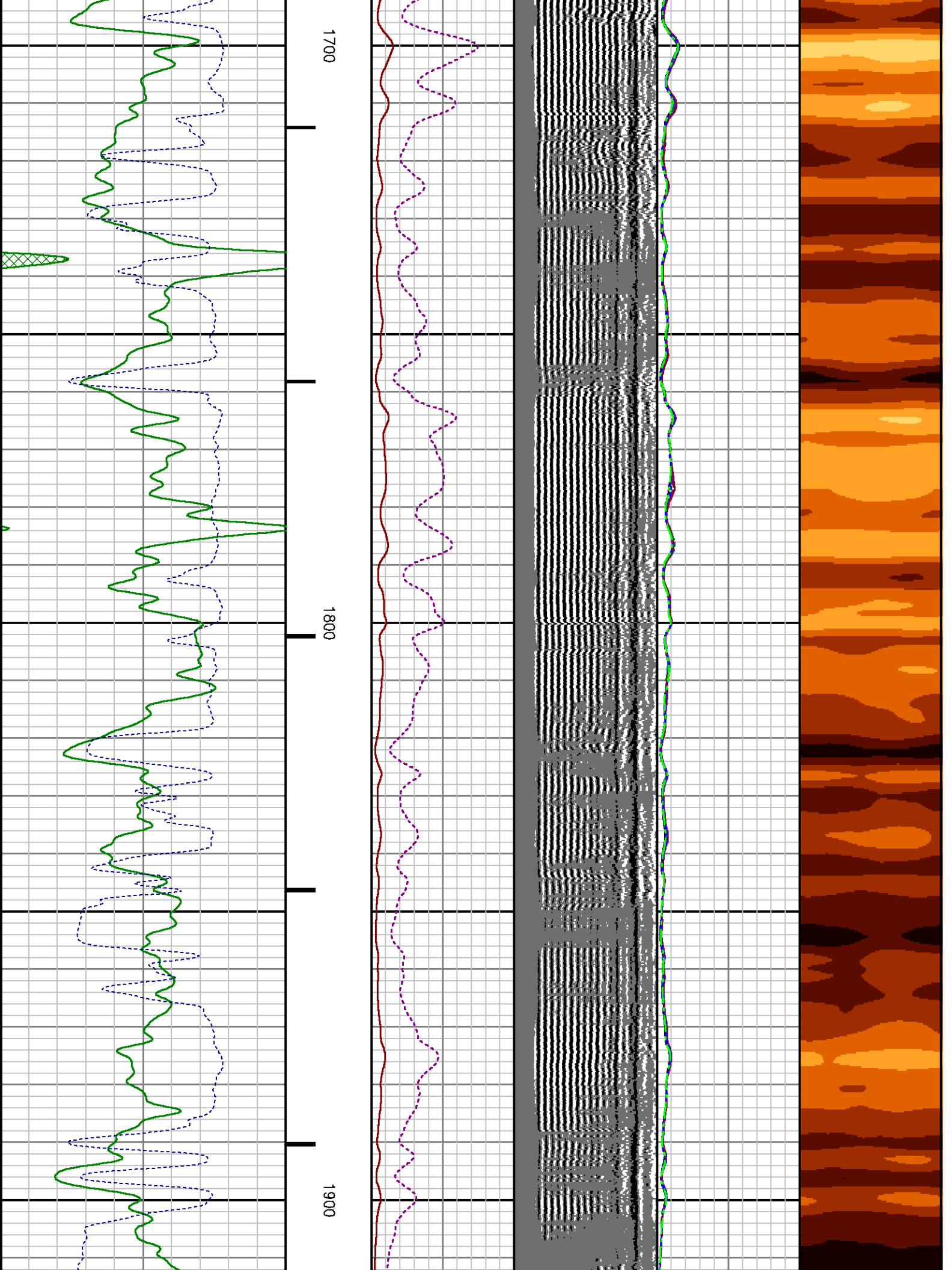


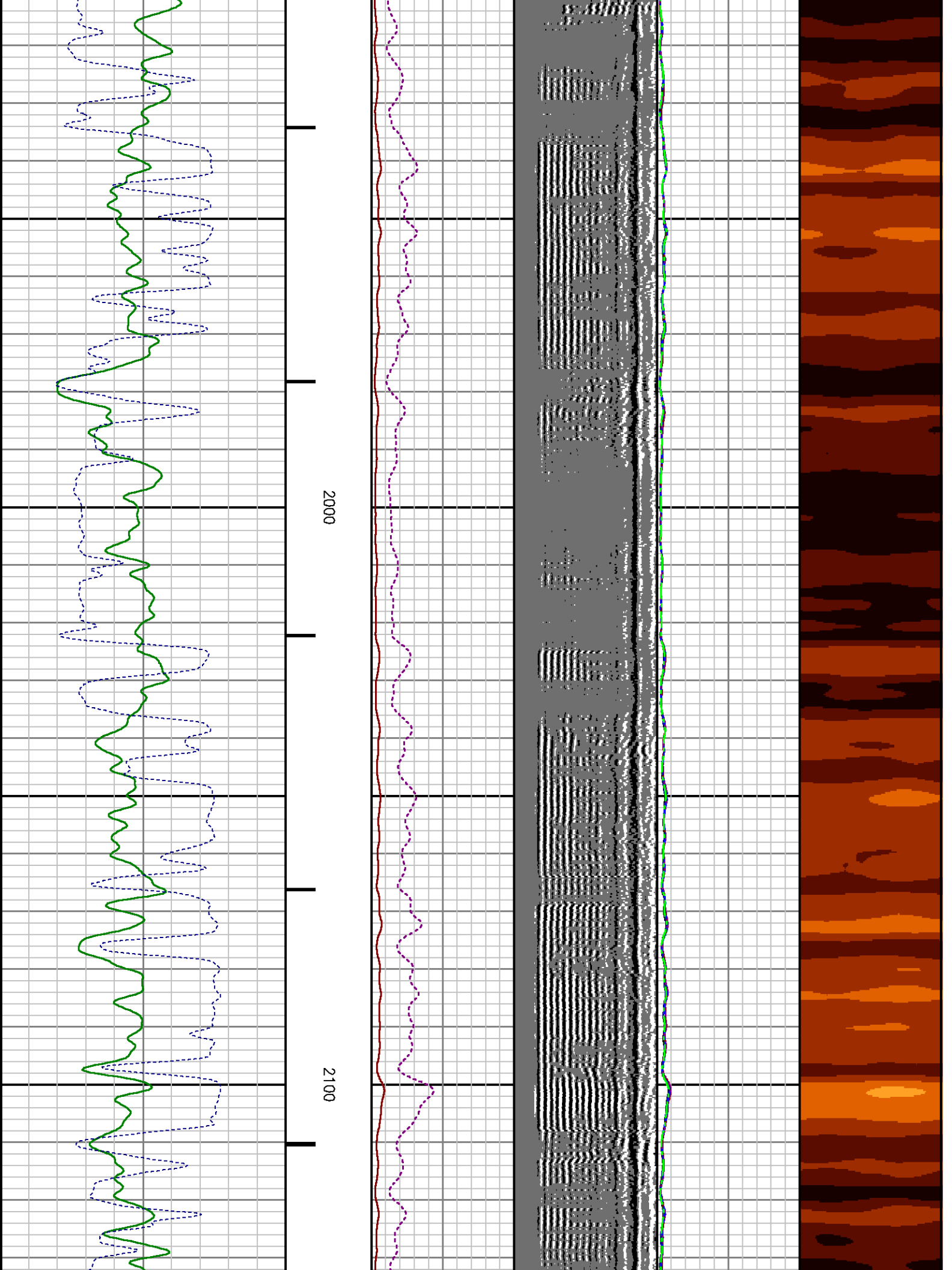


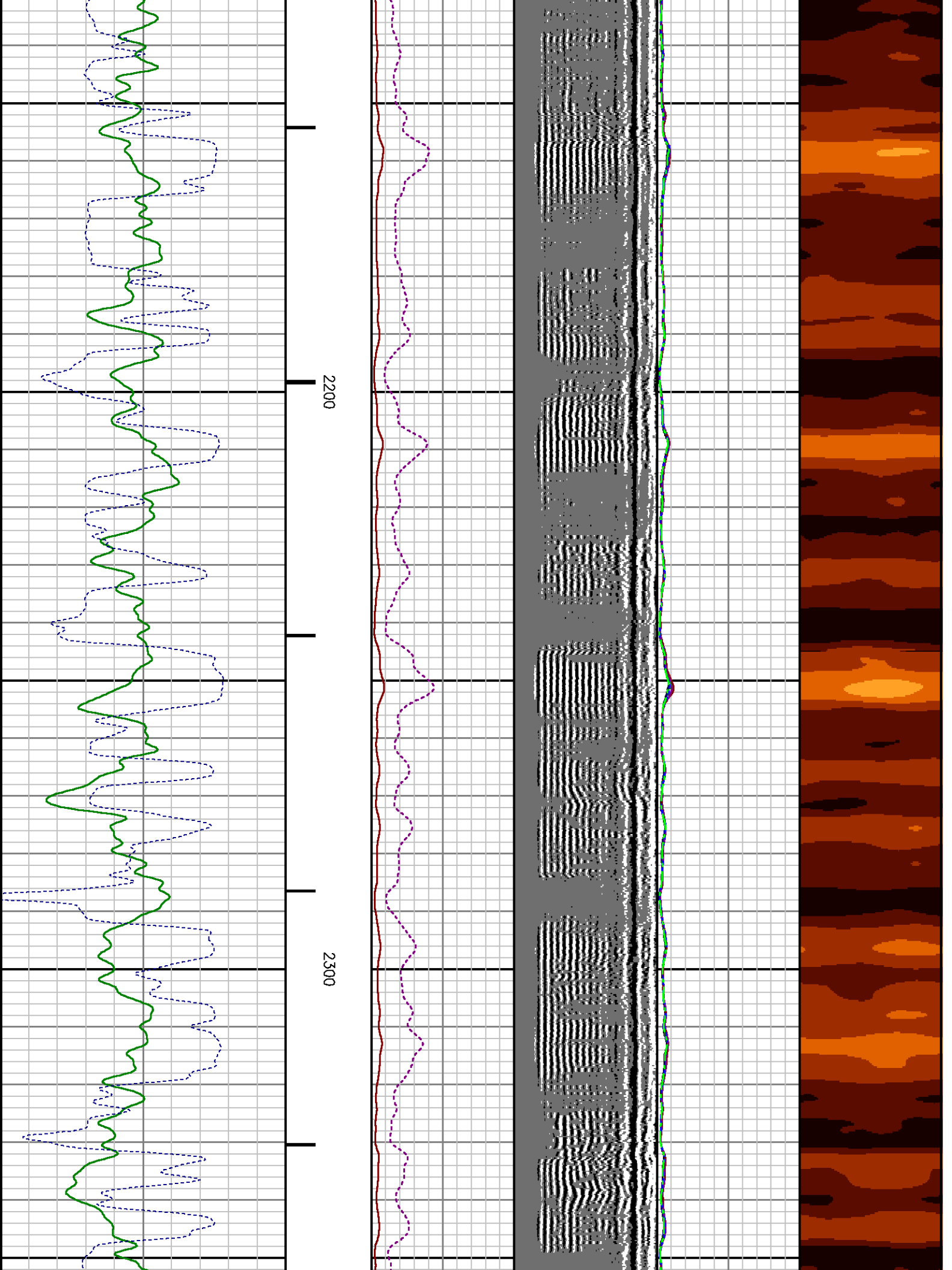


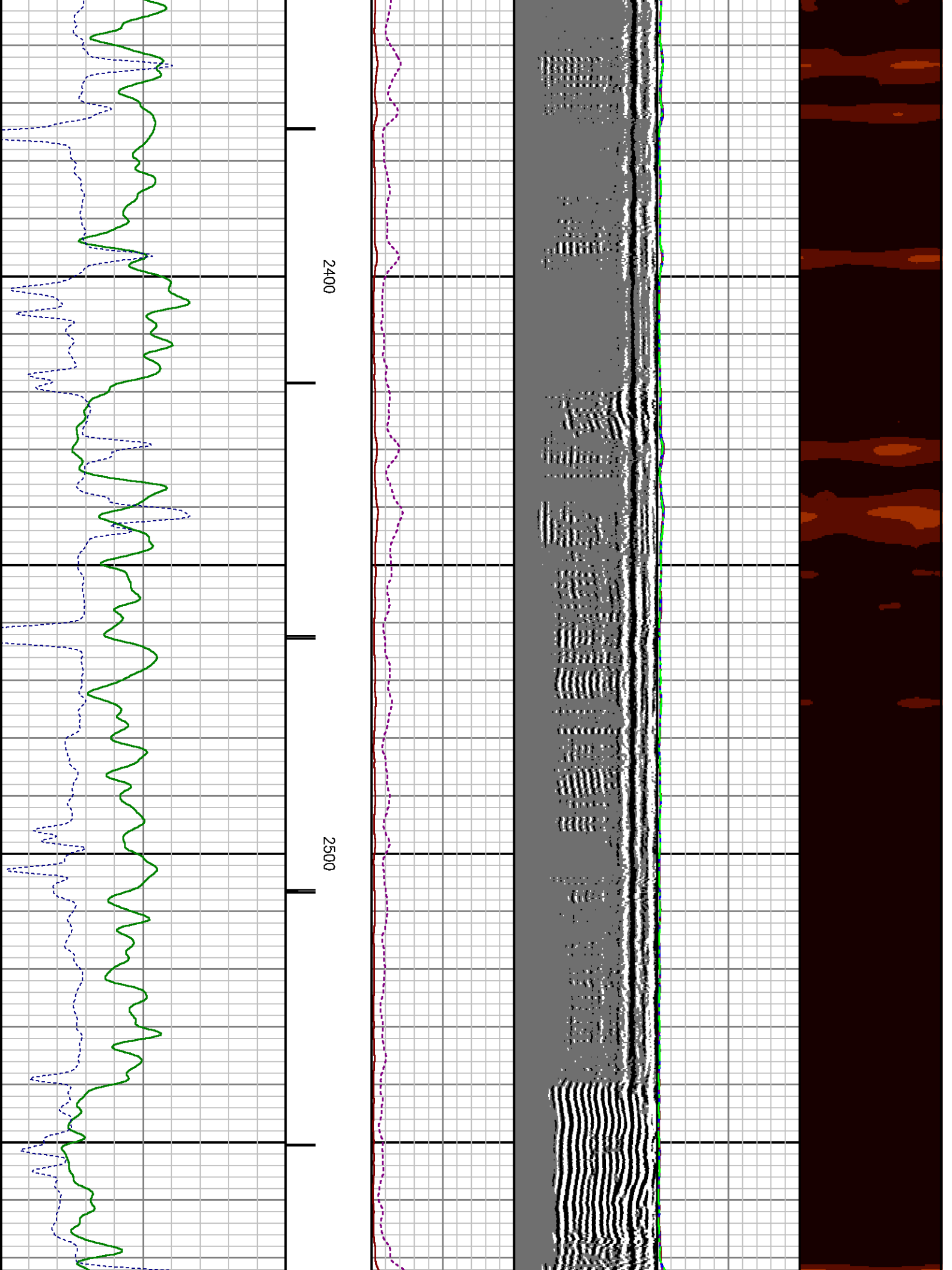


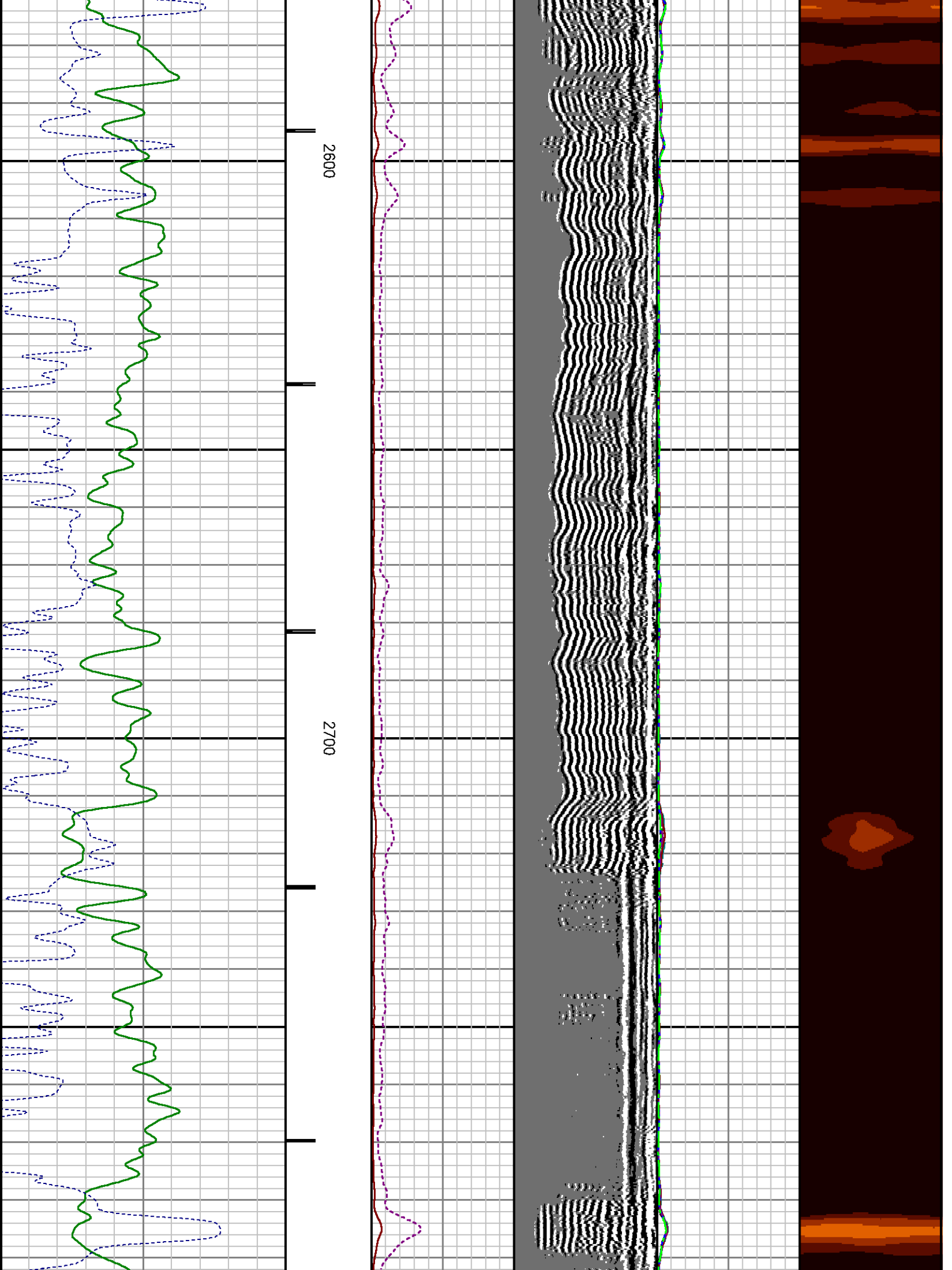


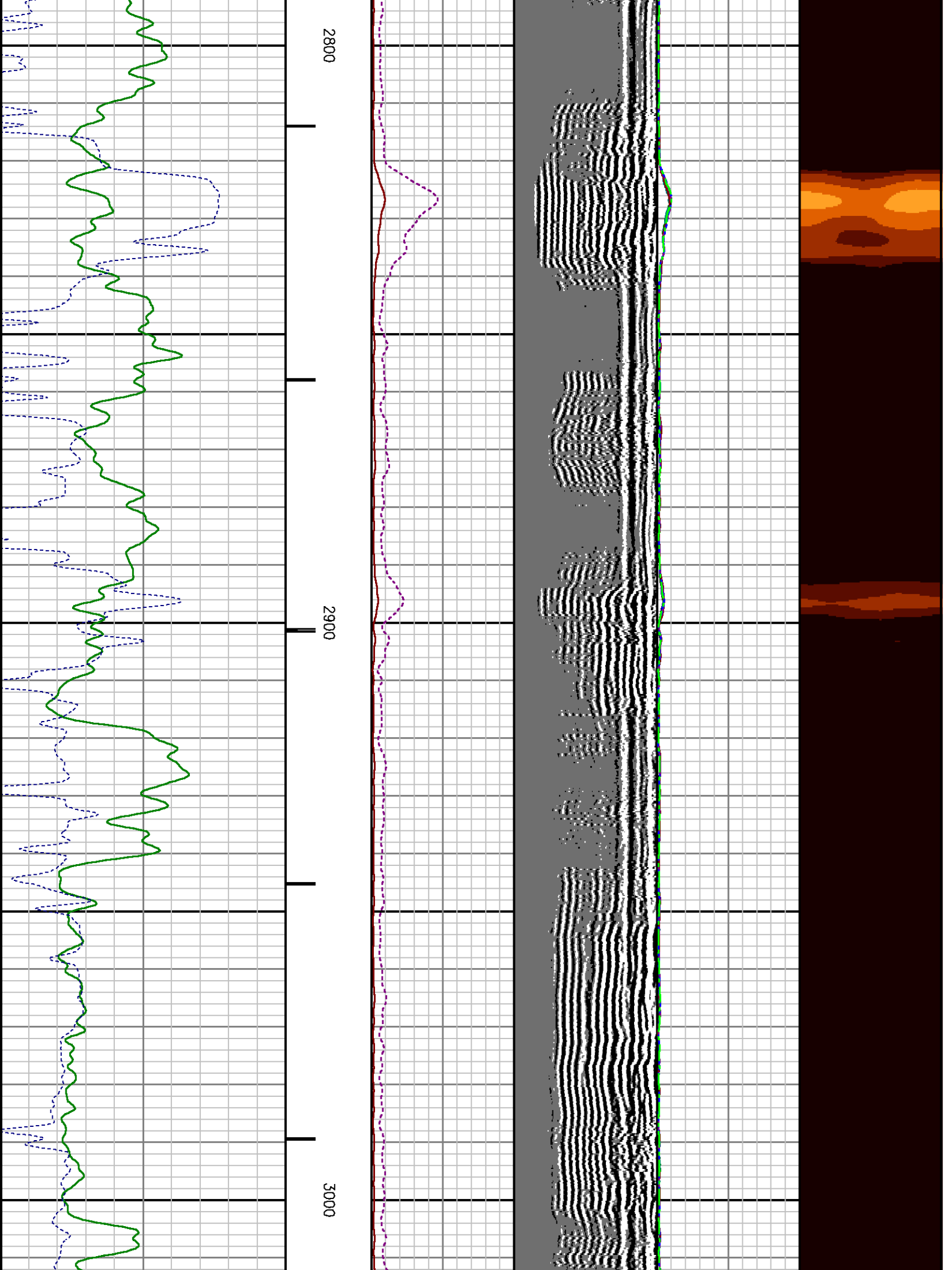


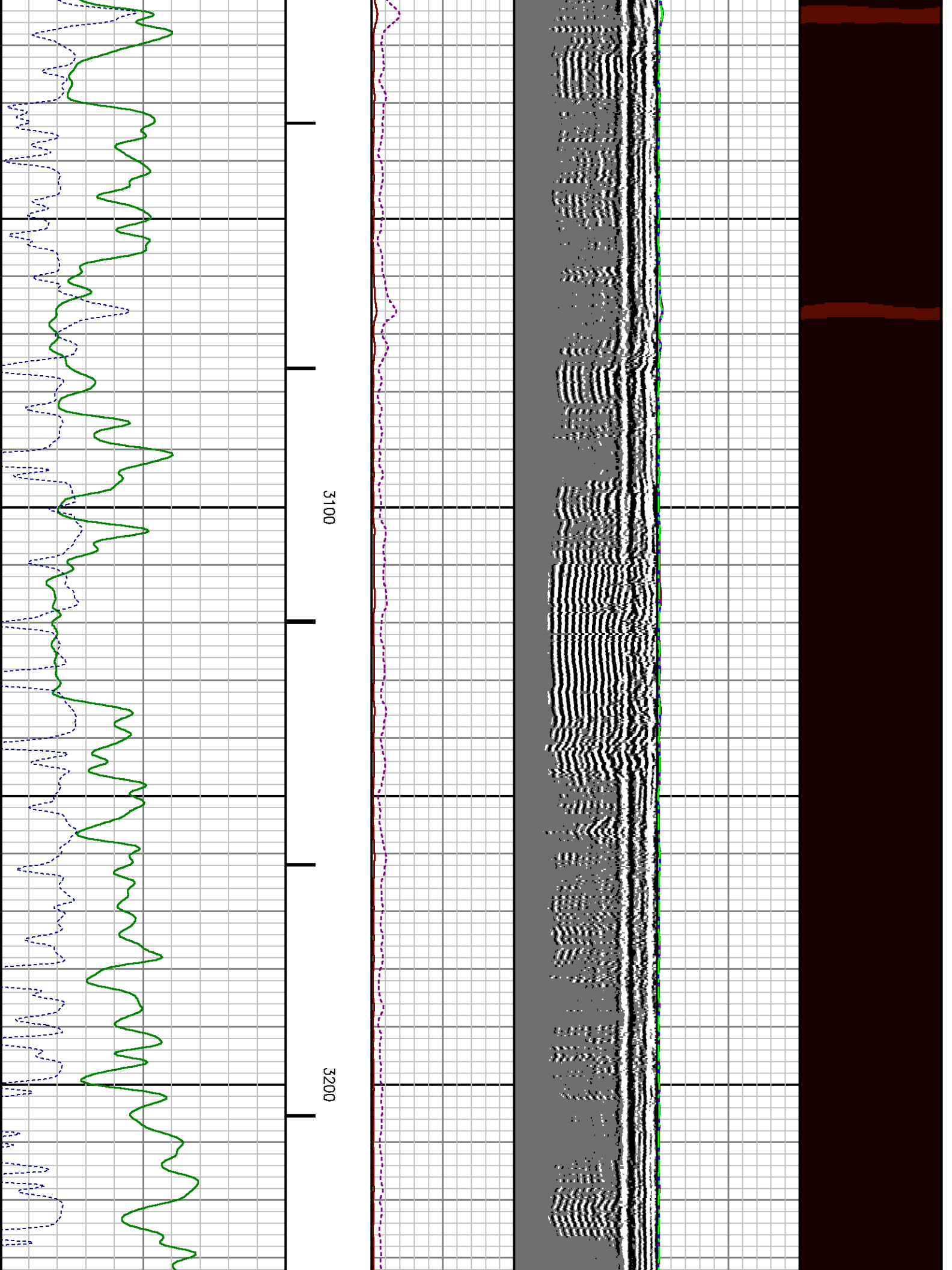


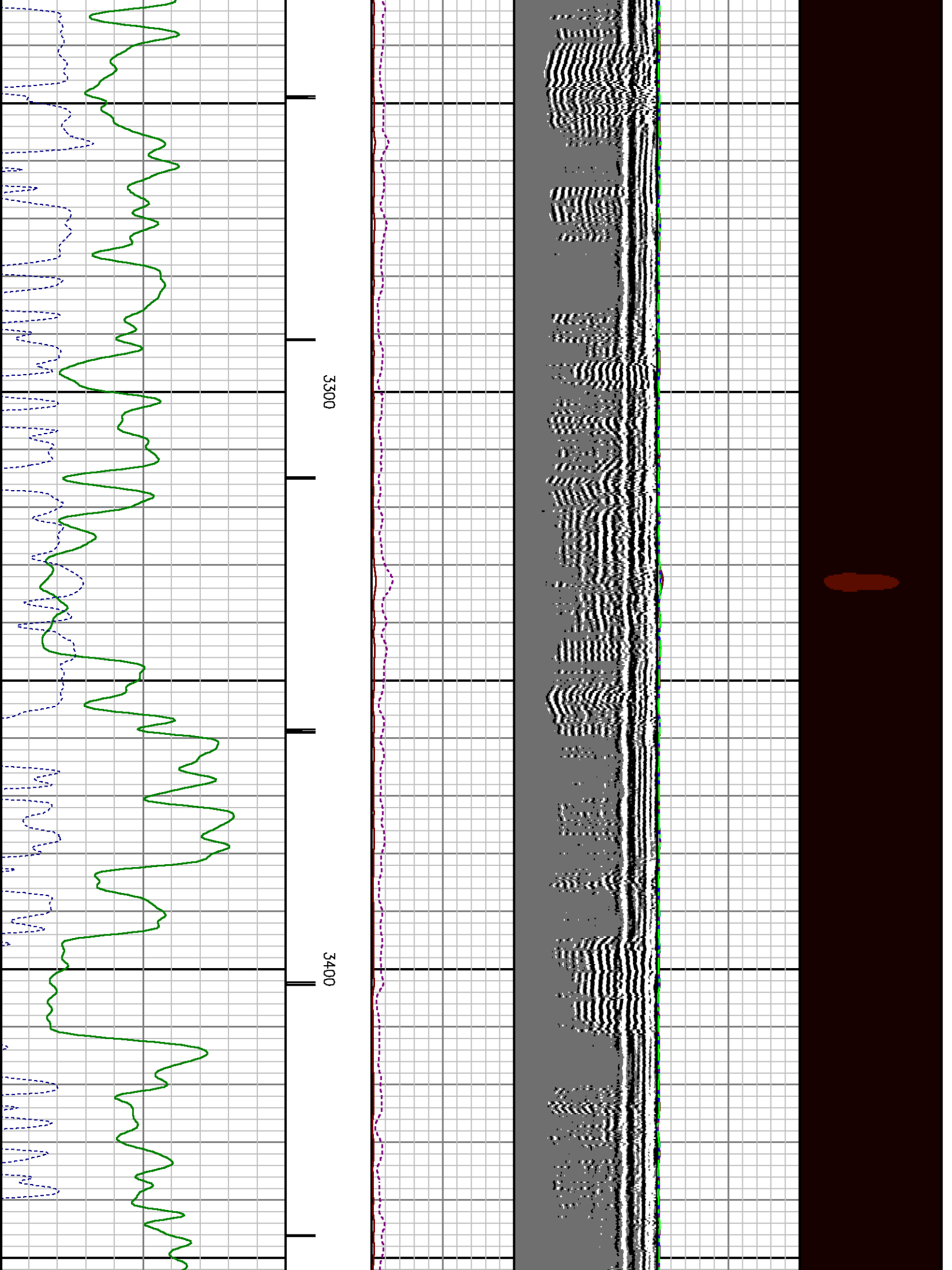


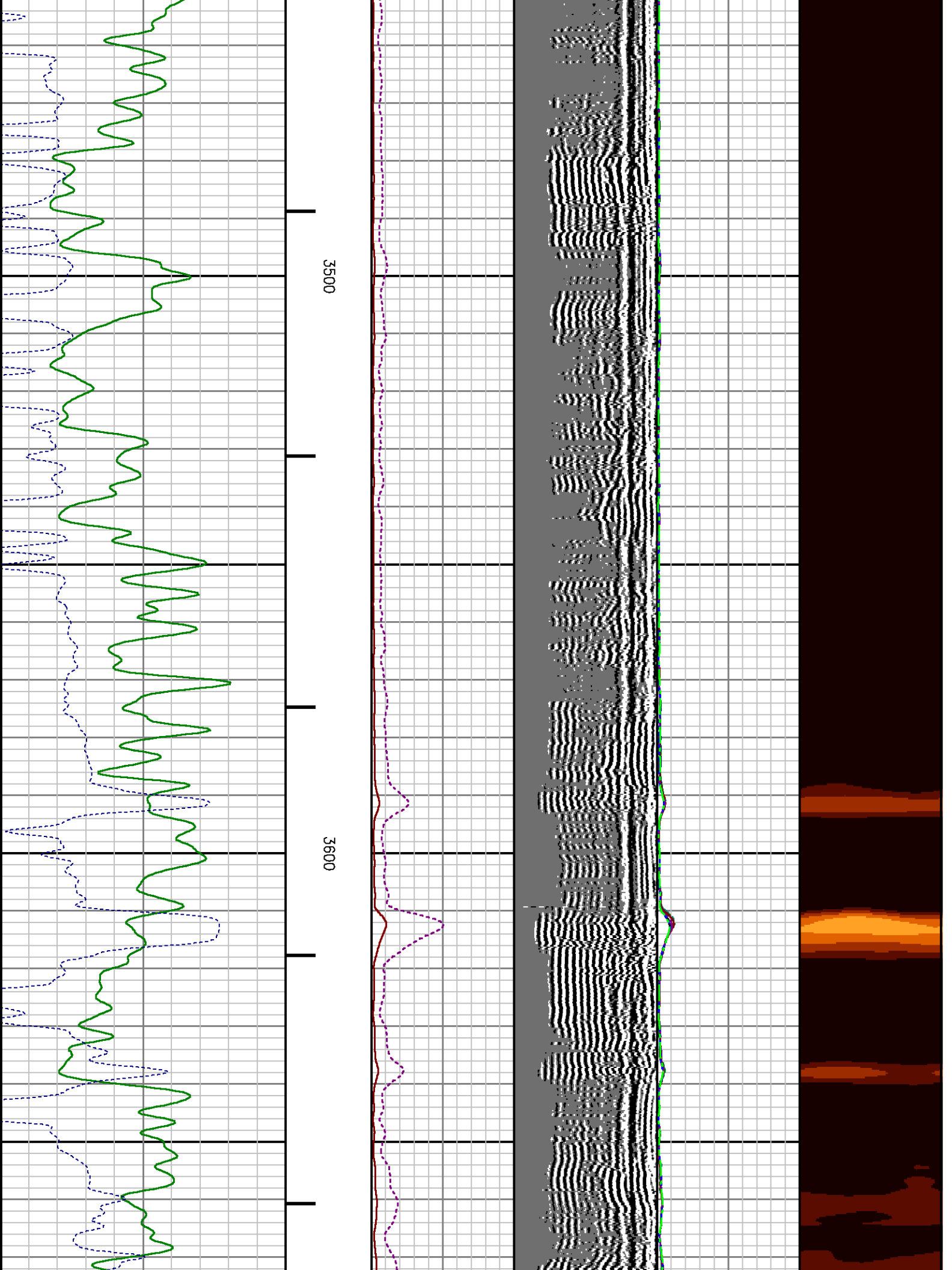


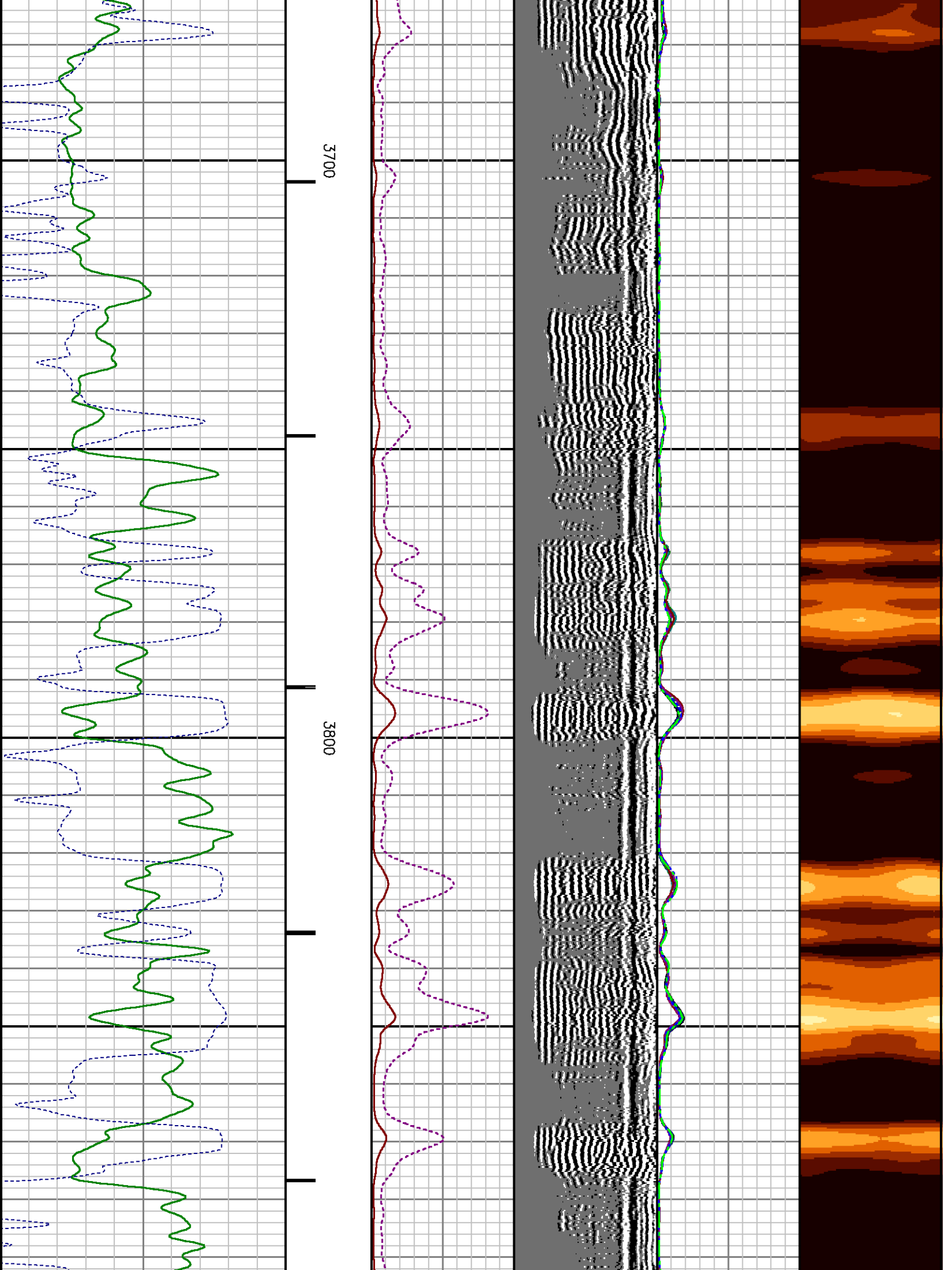


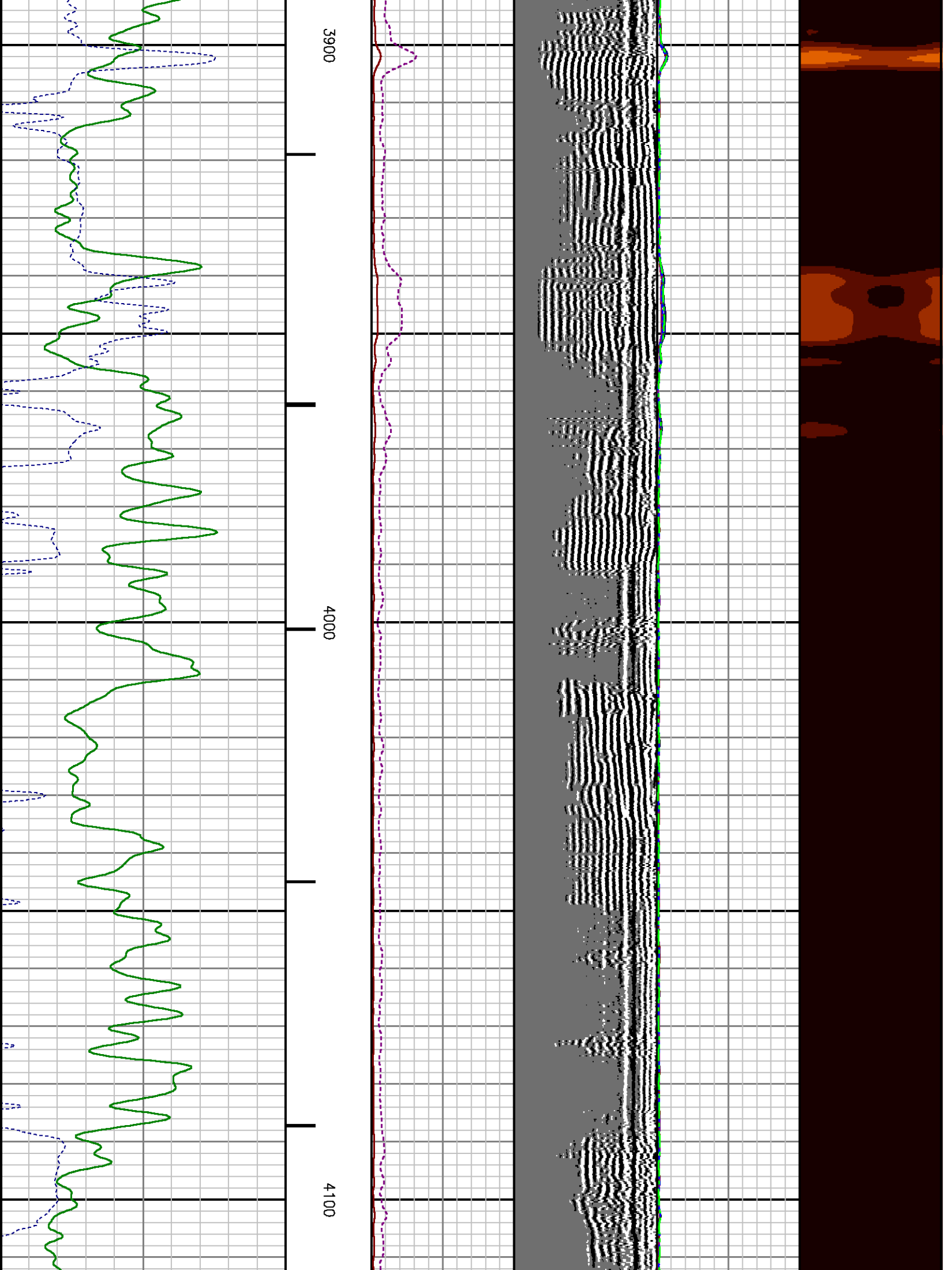


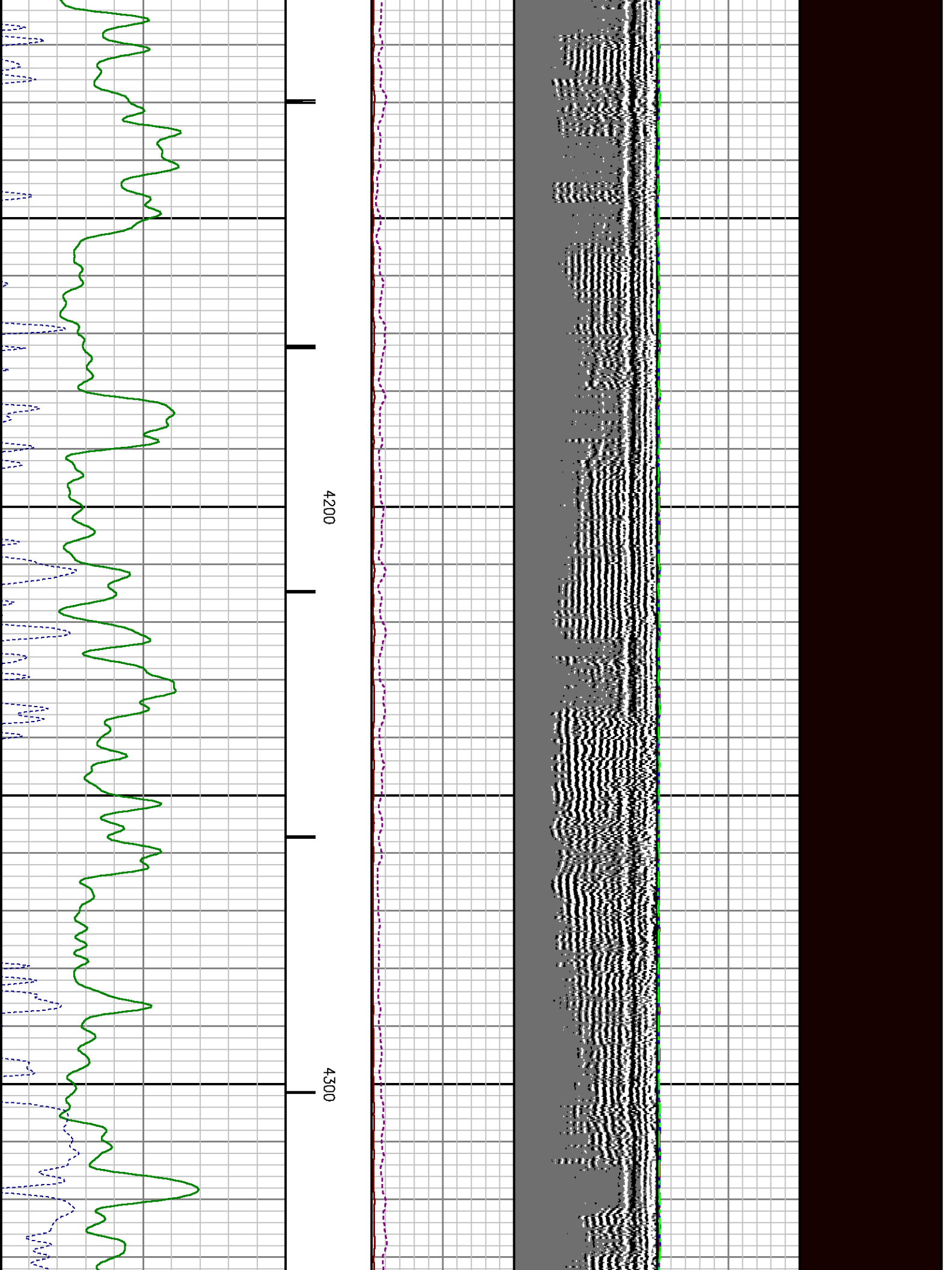


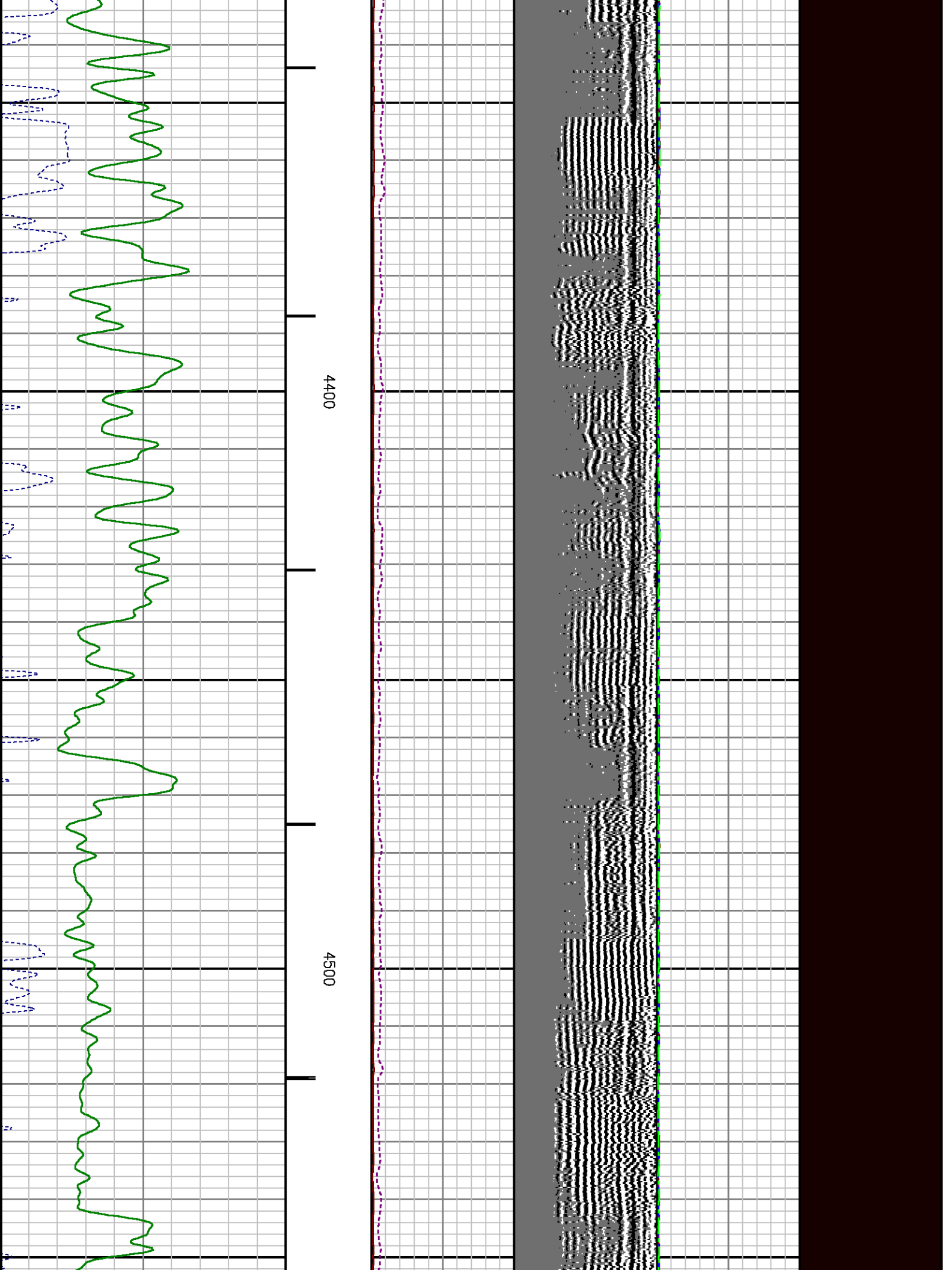


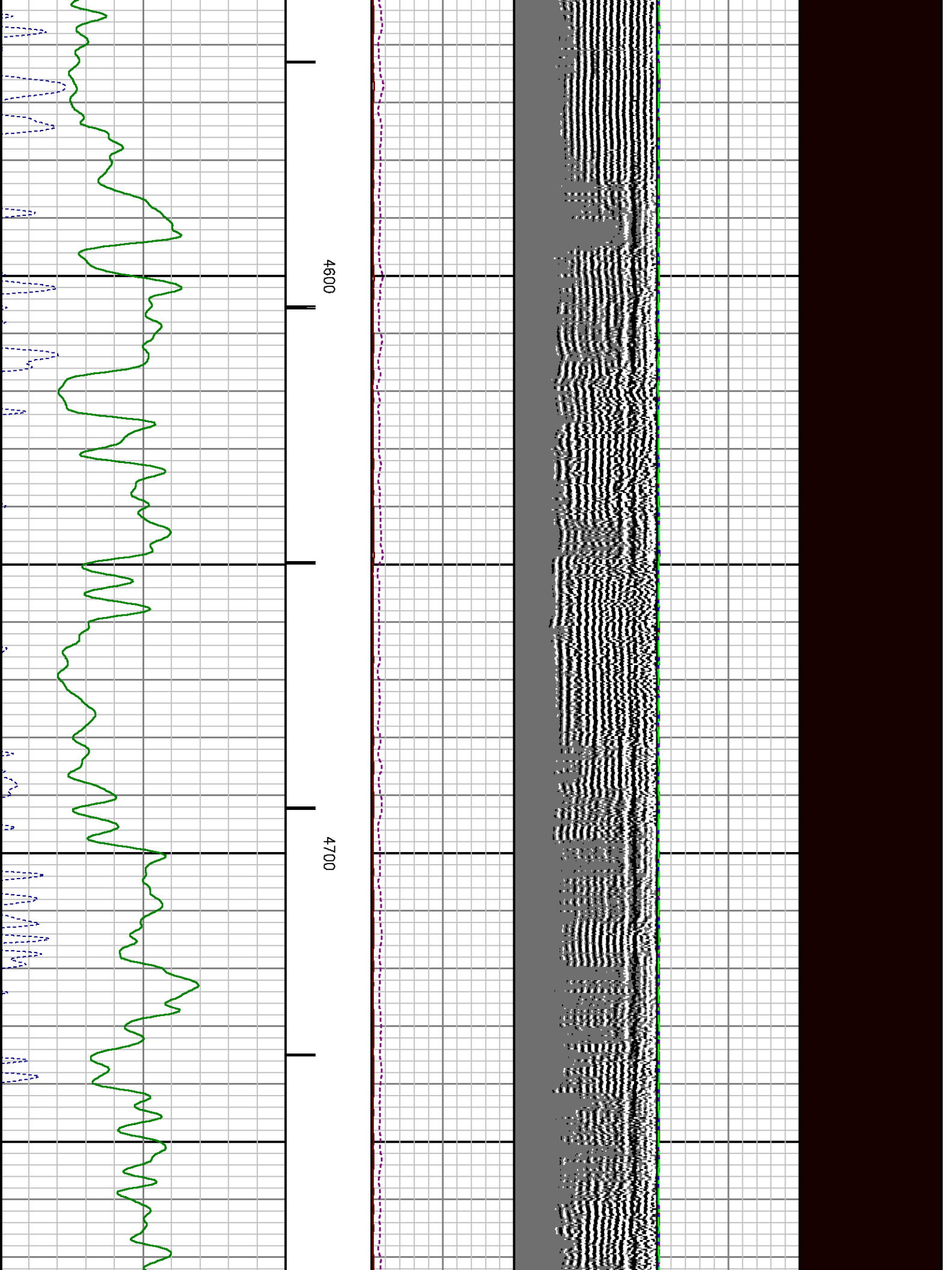


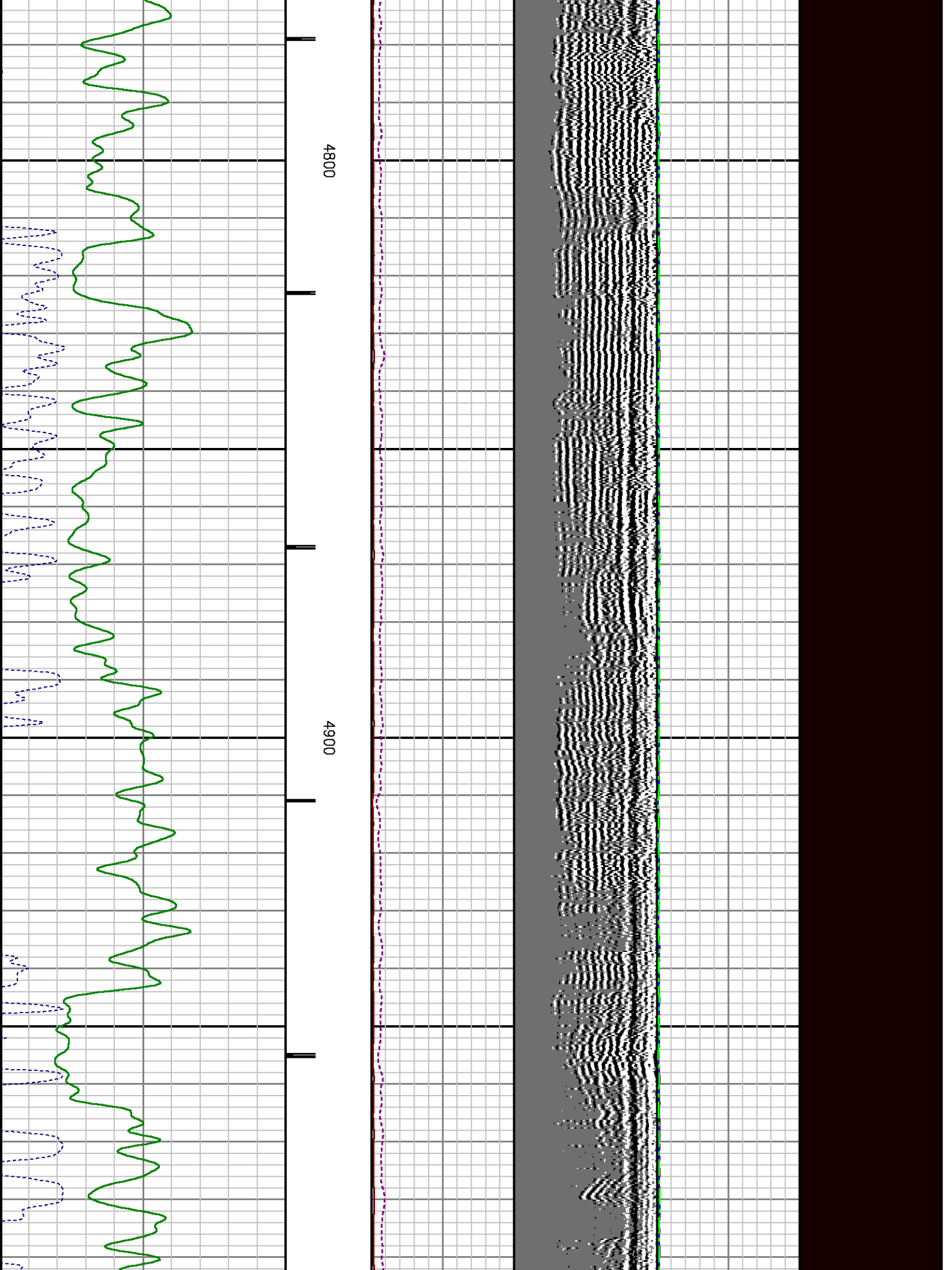


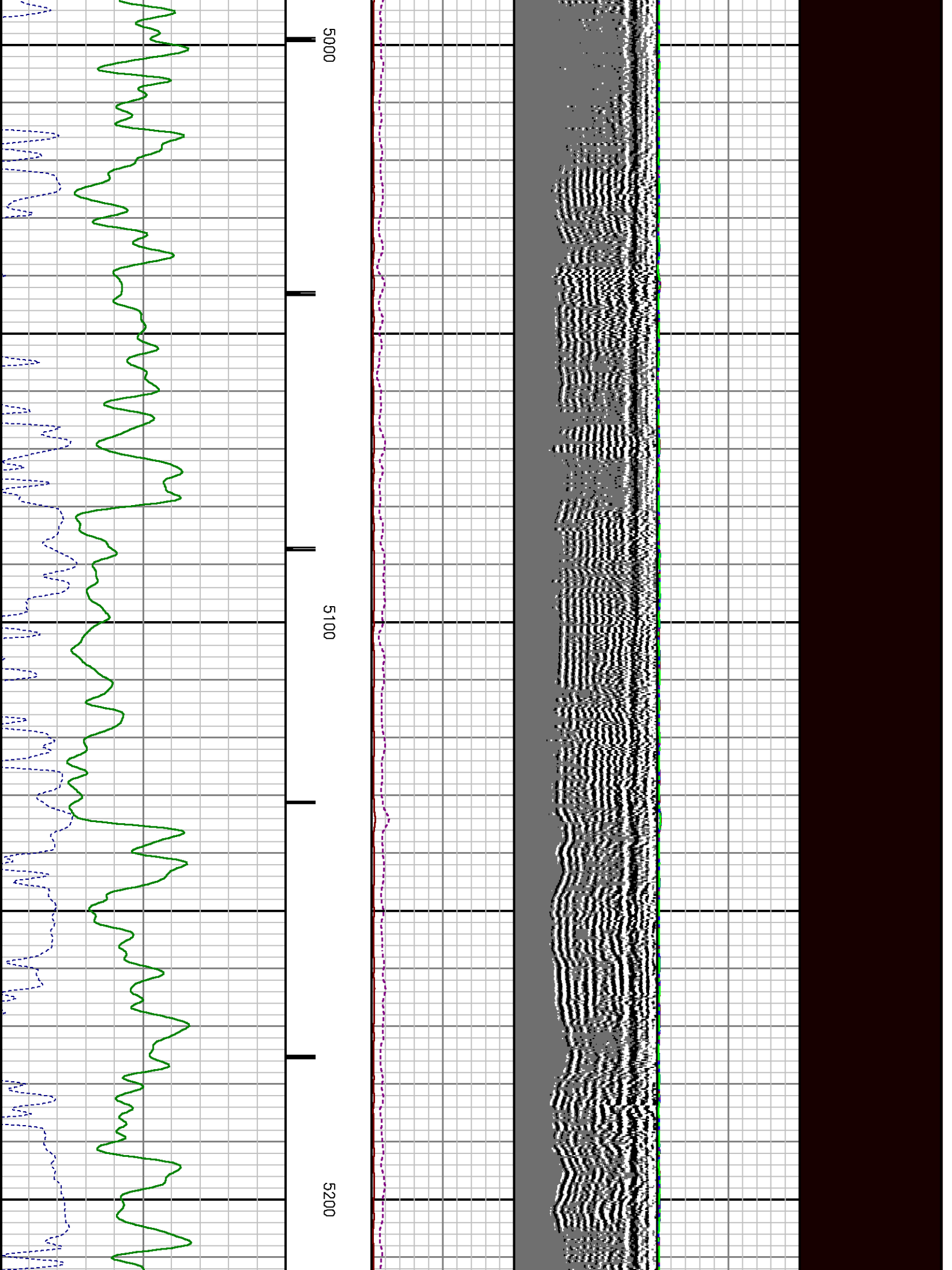


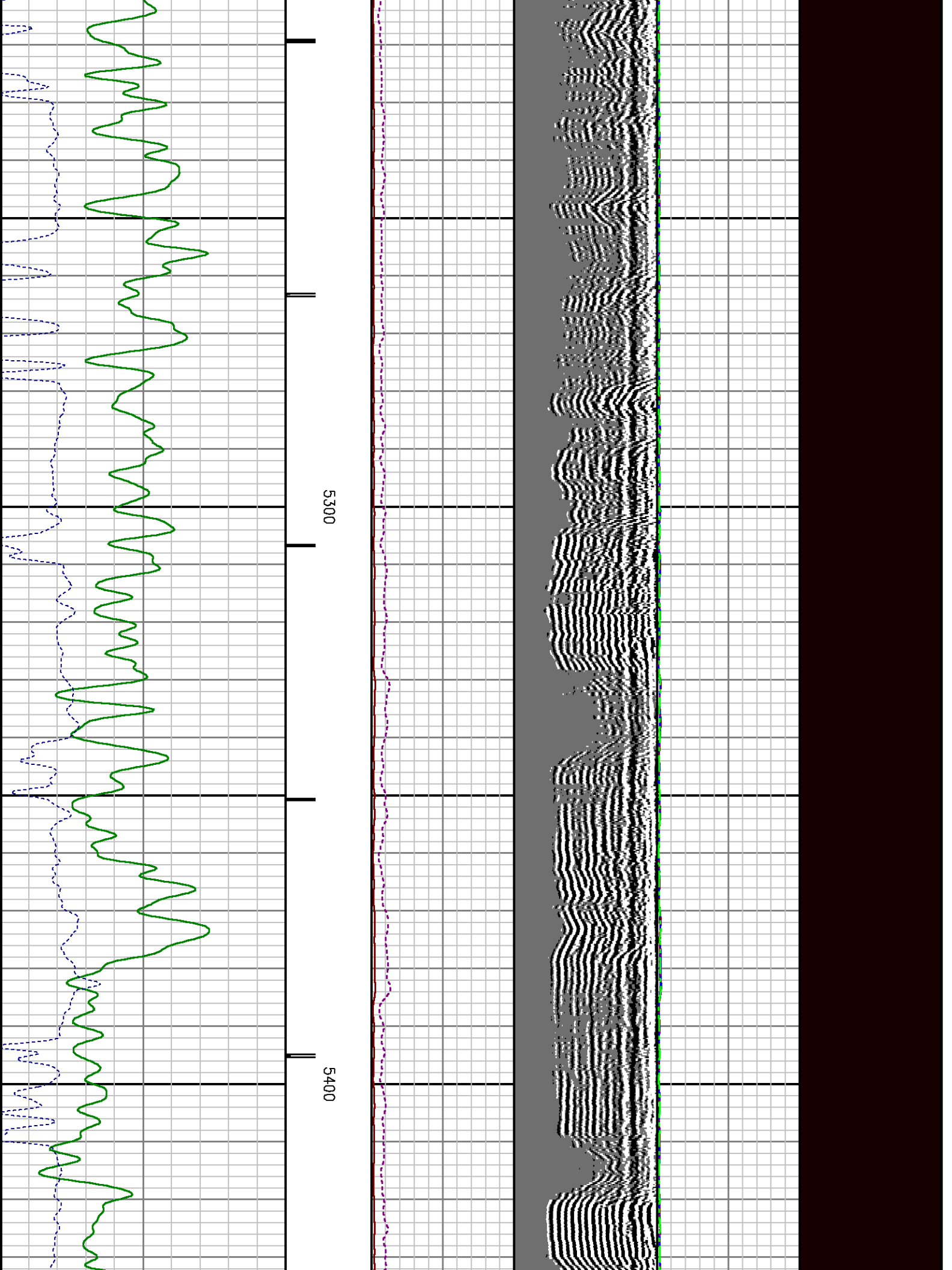


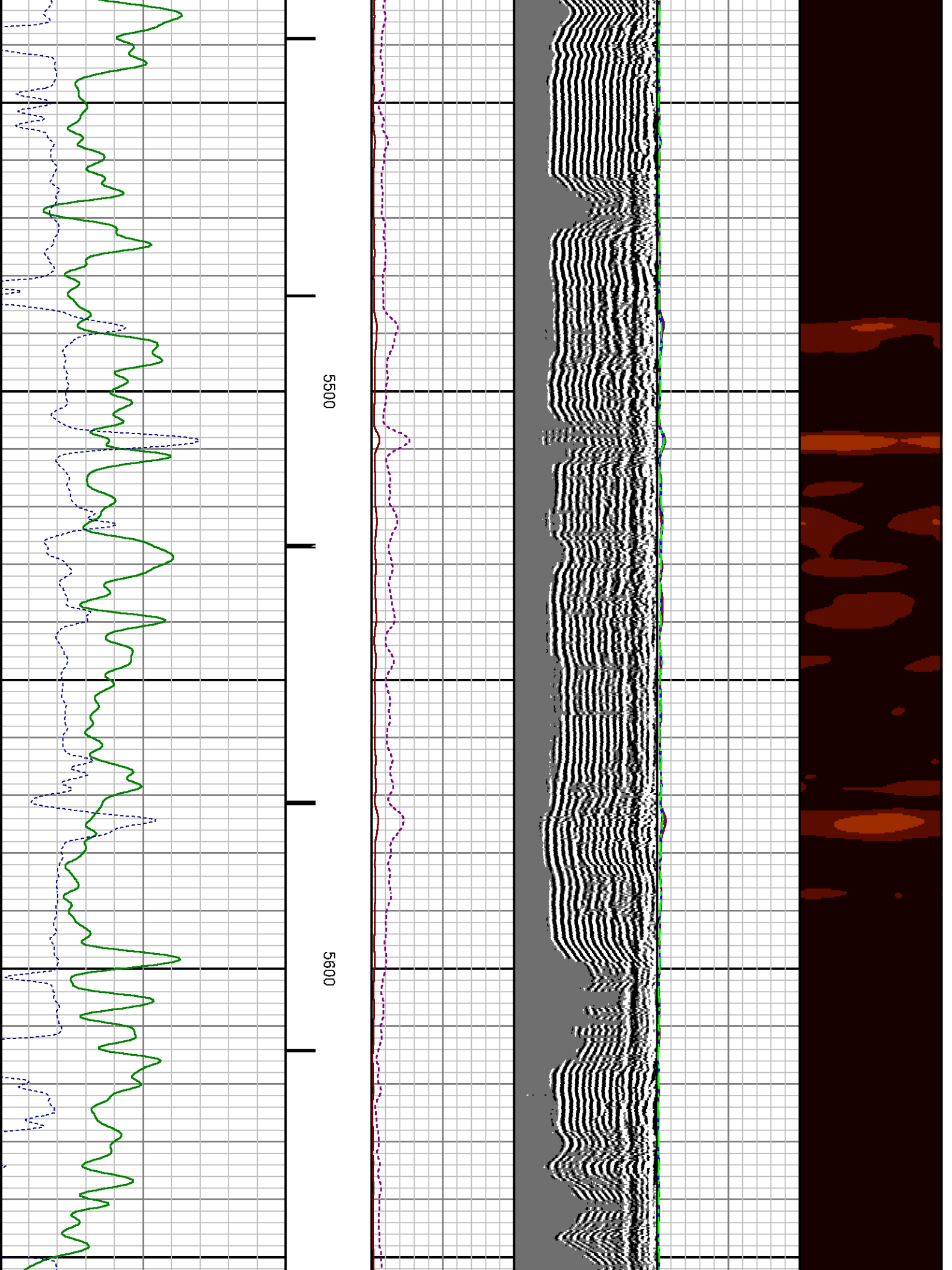


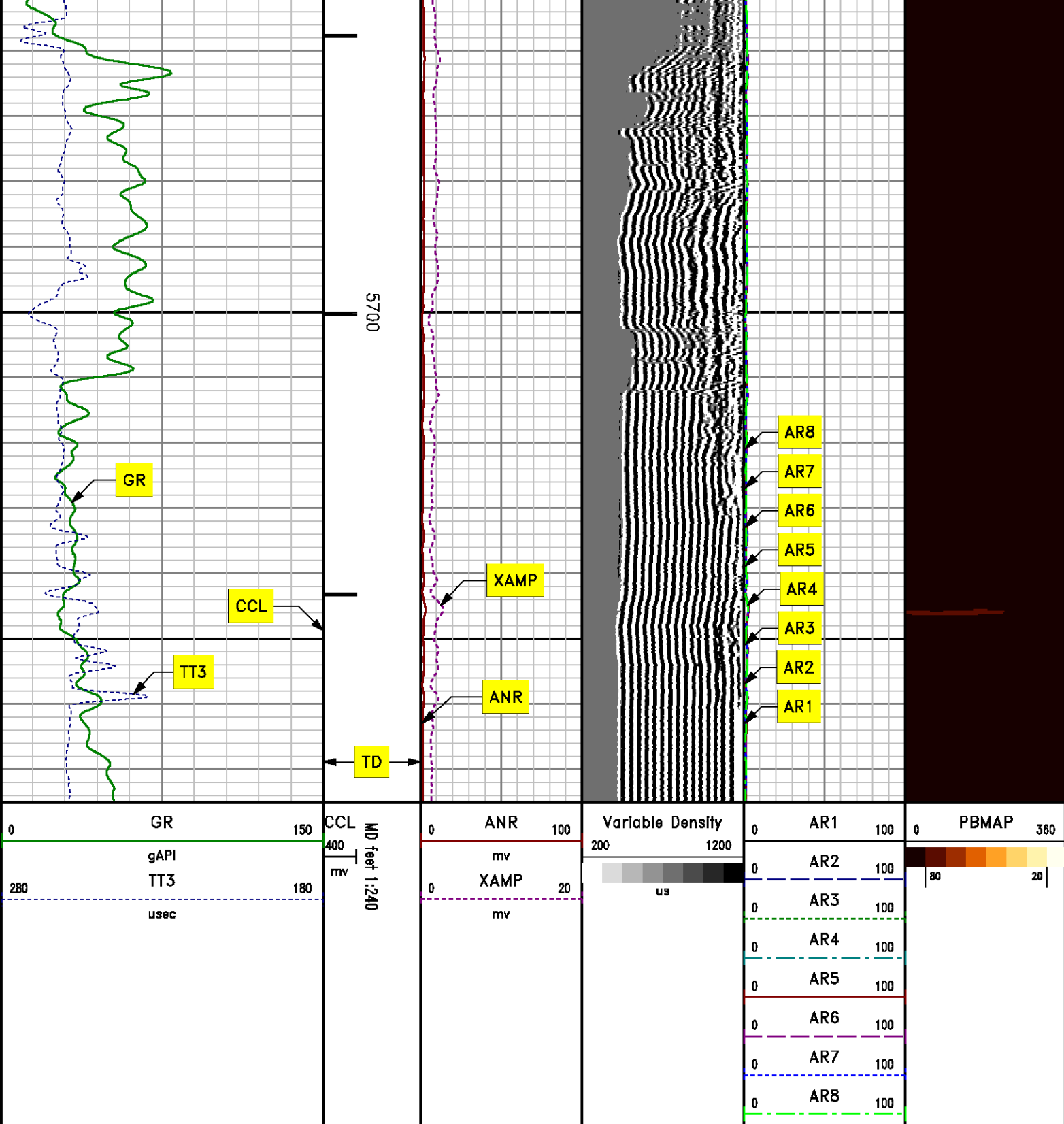












REPEAT PASS
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	309.409	usec	5479.750	5790.000
RAL	Amp Gate Start Near	200.391	usec	5479.750	5790.000
RAL	Amp Gate Start Radial	200.391	usec	5479.750	5790.000
RAL	Amp Gate Width Far	25.000	usec	5479.750	5790.000
RAL	Amp Gate Width Near	25.000	usec	5479.750	5790.000
RAL	Amp Gate Width Radial	25.000	usec	5479.750	5790.000
RAL	casing od	4.500	inches	5479.750	5790.000
RAL	casing wt	11.600	lbm/ft	5479.750	5790.000
RAL	FB Start Far	291.900	usec	5479.750	5790.000
RAL	FB Start Near	175.391	usec	5479.750	5790.000
RAL	FB Start Radial	175.391	usec	5479.750	5790.000
RAL	FB Thresh Far	10.000	mv	5479.750	5790.000
RAL	FB Thresh Near	4.000	mv	5479.750	5790.000
RAL	FB Thresh Radial	4.000	mv	5479.750	5790.000
RAL	Fluid Travel Time	200.000	usec/ft	5479.750	5790.000

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 : STRAIT SG 41-22

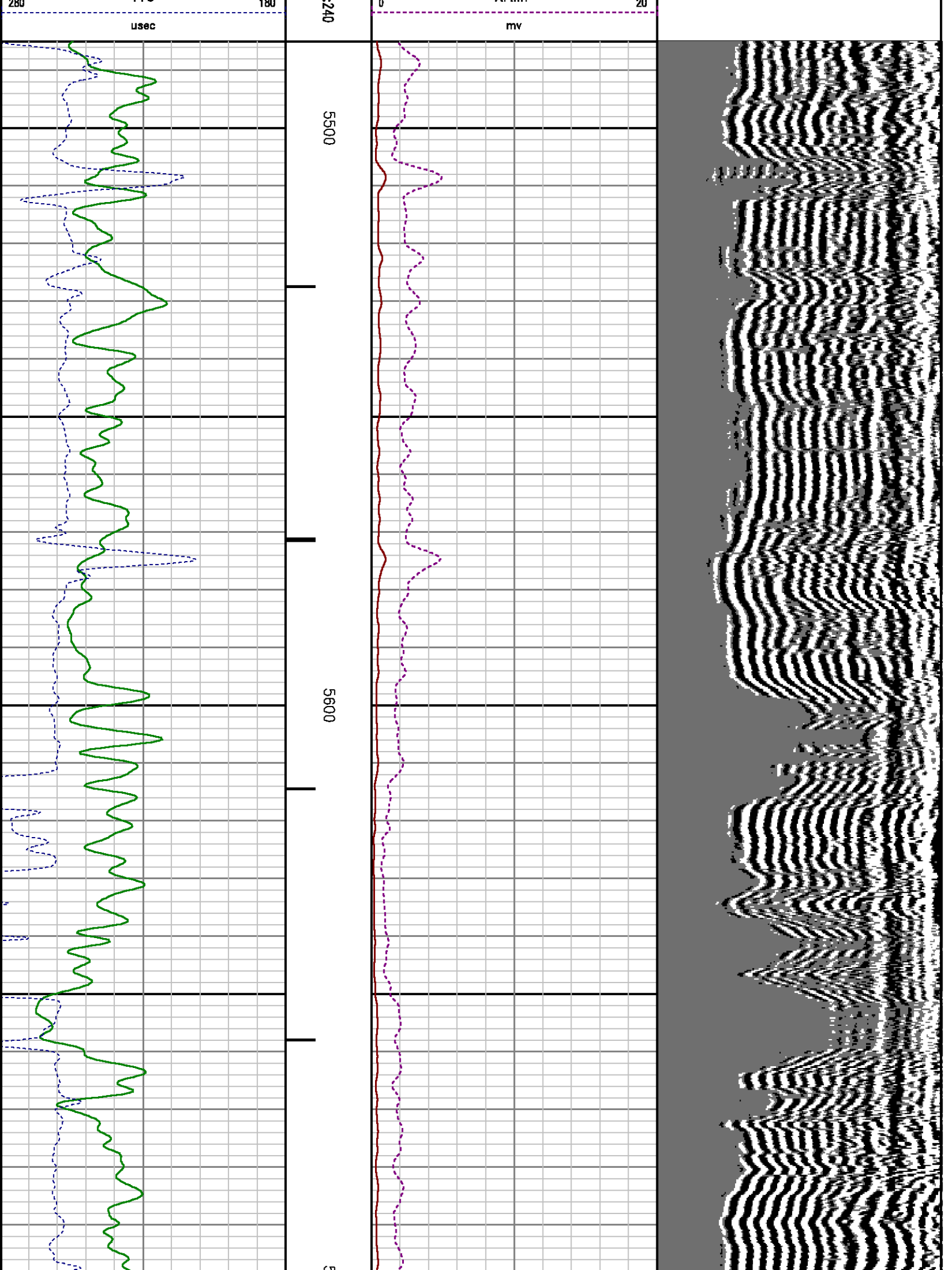
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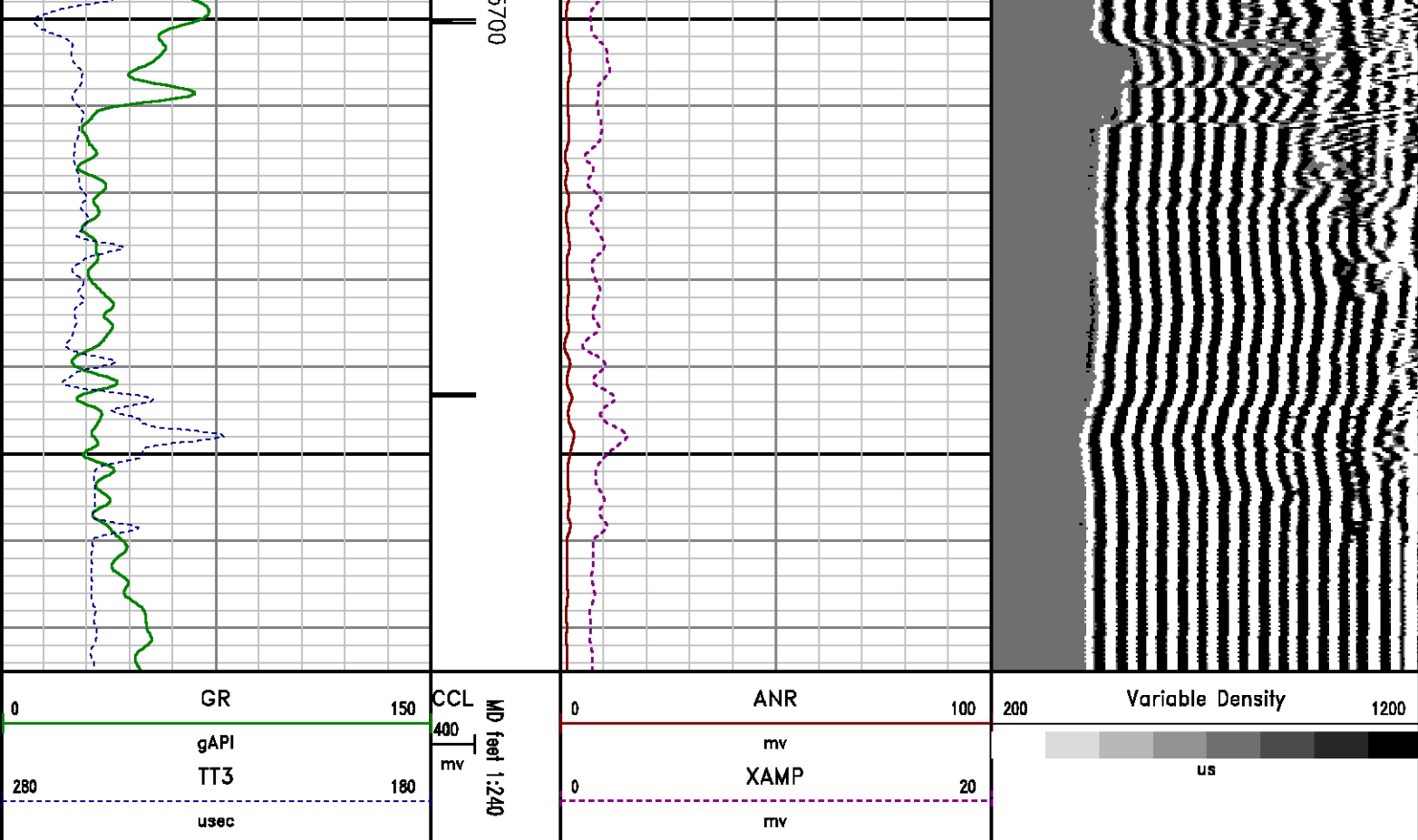
Mode : PlotMgr 5.4.504

Interval : 5485.00 - 5775.00 feet UP

Created : 9/4/2013 8:22:28 AM







CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\209A9.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Aug 29 09:42:38 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A9

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SHOP JIG	149.16	633.51	0.382	56.97	241.97	185.00

Verification File: C:\case\calver\GR\209A9.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Aug 29 09:44:11 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A9

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SHOP JIG	153.60	637.78	0.382	58.67	243.60	184.93

RALSHP

Shop Calibration: C:\case\calver\RALSHP\495SEP4 shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Sep 04 07:55:56 2013 TOOL SERIES: 1426XA ASSET: 495 SEQ: SEP4

Tool Delay [usec] -58.00 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	223	216	30	166	25	0.054	100.00	0.16
3 Ft. Receiver	221	216	30	166	25	-2.143	100.00	0.15
5 Ft. Receiver	331	328	30	282	25	-2.877	150.00	0.17
Radial #1	222	216	30	166	25	2.193	100.00	0.15
Radial #2	221	216	30	166	25	2.013	100.00	0.15
Radial #3	220	216	30	166	25	0.153	100.00	0.15
Radial #4	220	216	30	166	25	-0.682	100.00	0.15
Radial #5	219	216	30	166	25	-1.397	100.00	0.15
Radial #6	220	216	30	166	25	-1.086	100.00	0.15
Radial #7	220	216	30	166	25	-0.377	100.00	0.15
Radial #8	223	216	30	166	25	-0.352	100.00	0.15

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\495SEP4 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Sep 04 07:57:42 2013 TOOL SERIES: 1426XA ASSET: 495 SEQ: SEP4

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	-0.005	0.000	1.00	100.000
3 Ft. Receiver	200	30	-0.227			
5 Ft. Receiver	317	30	-0.215			
Radial #1	200	30	-0.072			
Radial #2	200	30	-0.093			
Radial #3	200	30	-0.062			
Radial #4	200	30	-0.122			
Radial #5	200	30	-0.140			
Radial #6	200	30	-0.184			
Radial #7	200	30	-0.076			
Radial #8	200	30	-0.158			

TOOL DIAGRAM

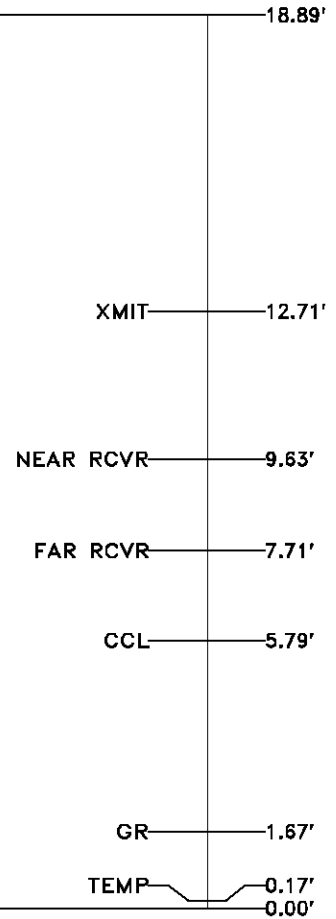
OTA SHORT CABLE HEAD

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

RAL GR/TEMP/CCL/CHV DETECTOR

Series	1355XA
Mnemonic	RAL
Diameter	2.75"
Weight	85.00 lb
Length	6.96'
Measure Point	0.17' TEMP
Measure Point	1.67' GR
Measure Point	5.79' CCL
Temp Rating	400.00 °F
Press Rating	20000.00 PSI



Total Length: 18.89'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas



Company
Well
Field
County

WPX ENERGY

STRAIT SG 41-22

GRAND VALLEY

GARFIELD

State

COLORADO

Location

SHL: 1450' FNL & 287' FEL SEC:22

BHL: 180' FNL & 341' FEL SEC:22

SEC 22

TWP 75

RGE 96W

Elevations

KB 5244 ft

DF

GL 5222 ft

File No:

CH076672

API No:

05045217500000

22 7S 96W

SG 42-22

CYCLONE 17