



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH076671	Company Well Field County	WPX ENERGY STRAIT SG 31-22 GRAND VALLEY GARFIELD	State COLORADO
API No: 05045217330000			
22 7S 96W SG 42-22 CYCLONE 17	Location SHL: 1451' FNL & 297' FEL SEC:22 BHL: 186' FNL & 1783' 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	03/SEP/13	
Run	ONE	
Service Order	B24A10	
Depth Driller	6019 ft	
Depth Logger	5999 ft	
Bottom Logged Interval	5989 ft	
Top Logged Interval	22 ft	
Time Started	10:00	
Time Finished	12:30	
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	192 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	1171 ft
8.75 In	0 ft	6070 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	N/A	N/A	0 ft	1081 ft
4.5 In	11.6 lbm/ft	1-80	0 ft	6019 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 UP.
SHORT JOINT: 3634' - 3658'
BHT: 192 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	29.518	6019.300
RAL	Amp Gate Start Near	200.391	usec	29.518	6019.300
RAL	Amp Gate Start Radial	200.391	usec	29.518	6019.300
RAL	Amp Gate Width Far	25.000	usec	29.518	6019.300
RAL	Amp Gate Width Near	25.000	usec	29.518	6019.300
RAL	Amp Gate Width Radial	25.000	usec	29.518	6019.300
RAL	casing od	4.500	inches	29.518	6019.300
RAL	casing wt	11.600	lbm/ft	29.518	6019.300
RAL	FB Start Far	291.900	usec	29.518	6019.300
RAL	FB Start Near	175.391	usec	29.518	6019.300
RAL	FB Start Radial	175.391	usec	29.518	6019.300
RAL	FB Thresh Far	10.000	mv	29.518	6019.300
RAL	FB Thresh Near	4.000	mv	29.518	6019.300
RAL	FB Thresh Radial	4.000	mv	29.518	6019.300
RAL	Fluid Travel Time	200.000	usec/ft	29.518	6019.300

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

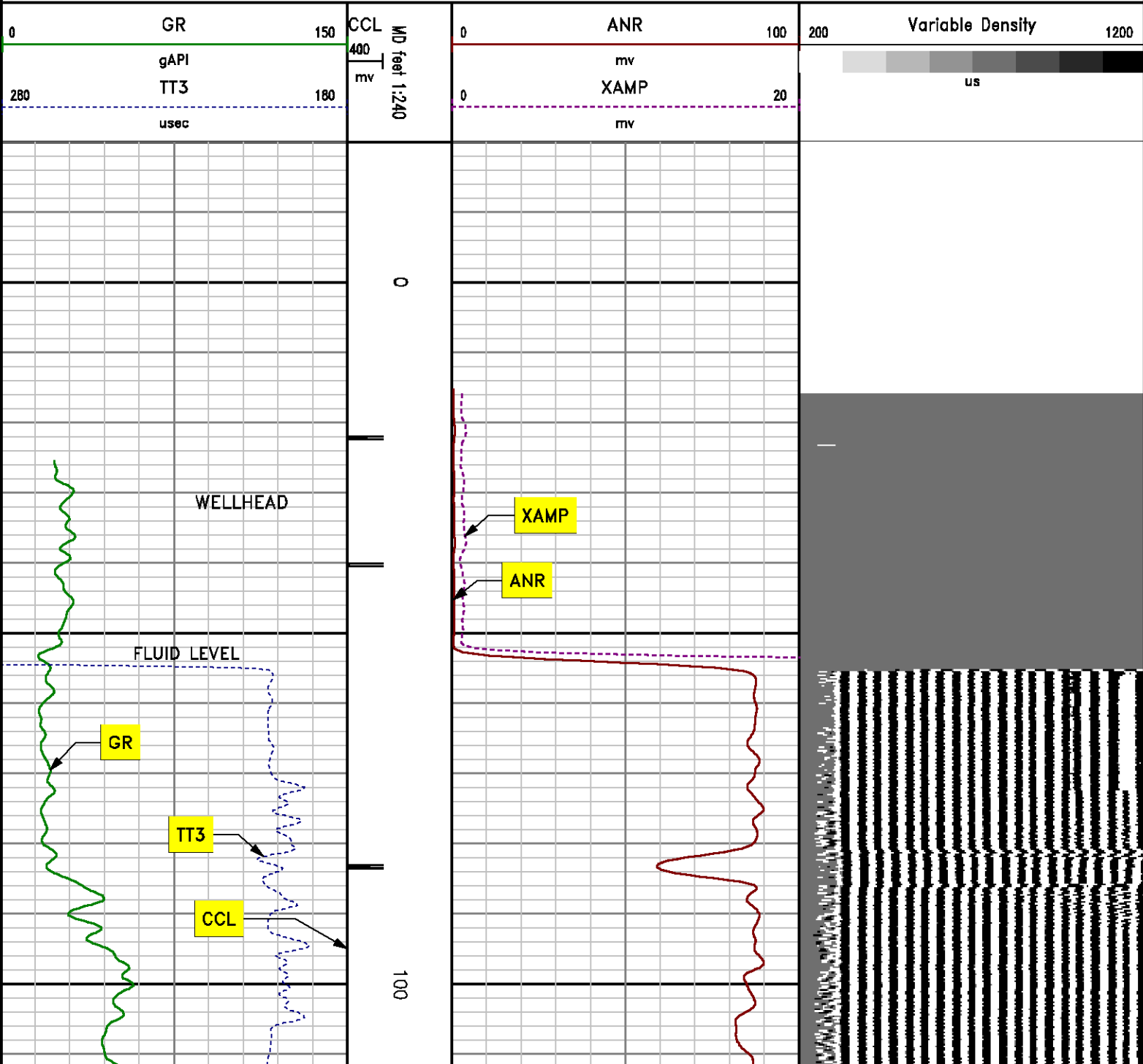
Well : STRAIT SG 31-22

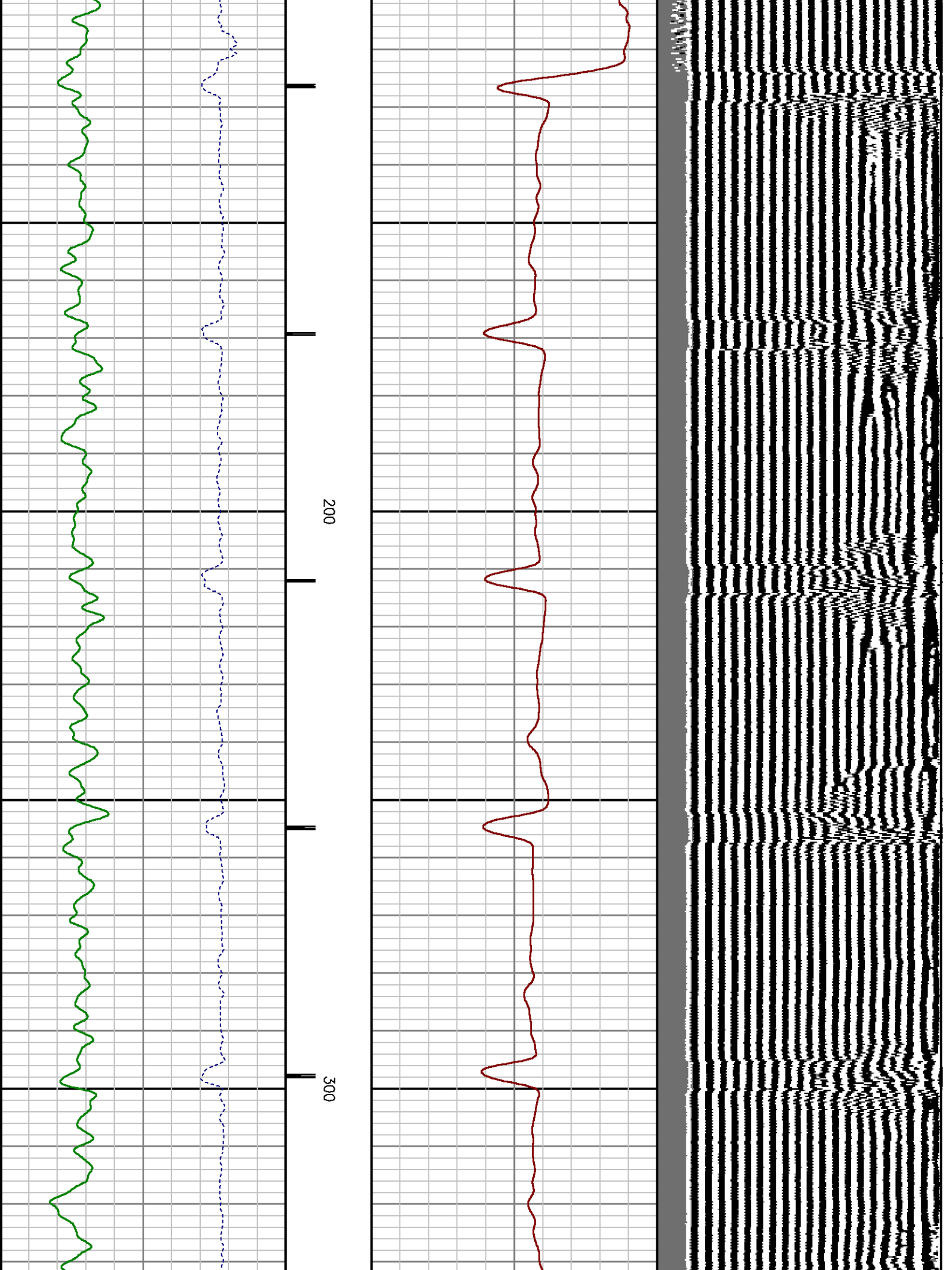
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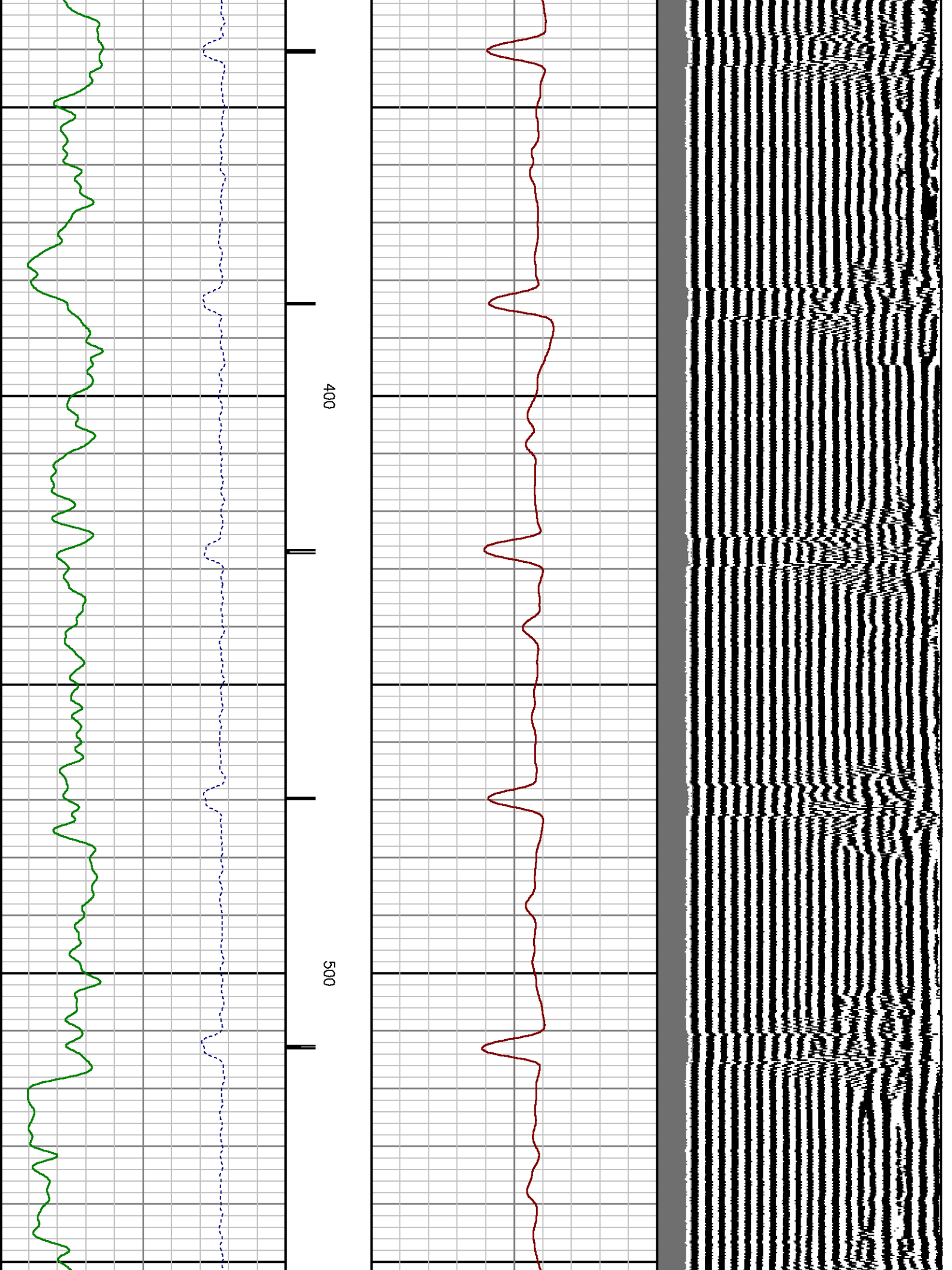
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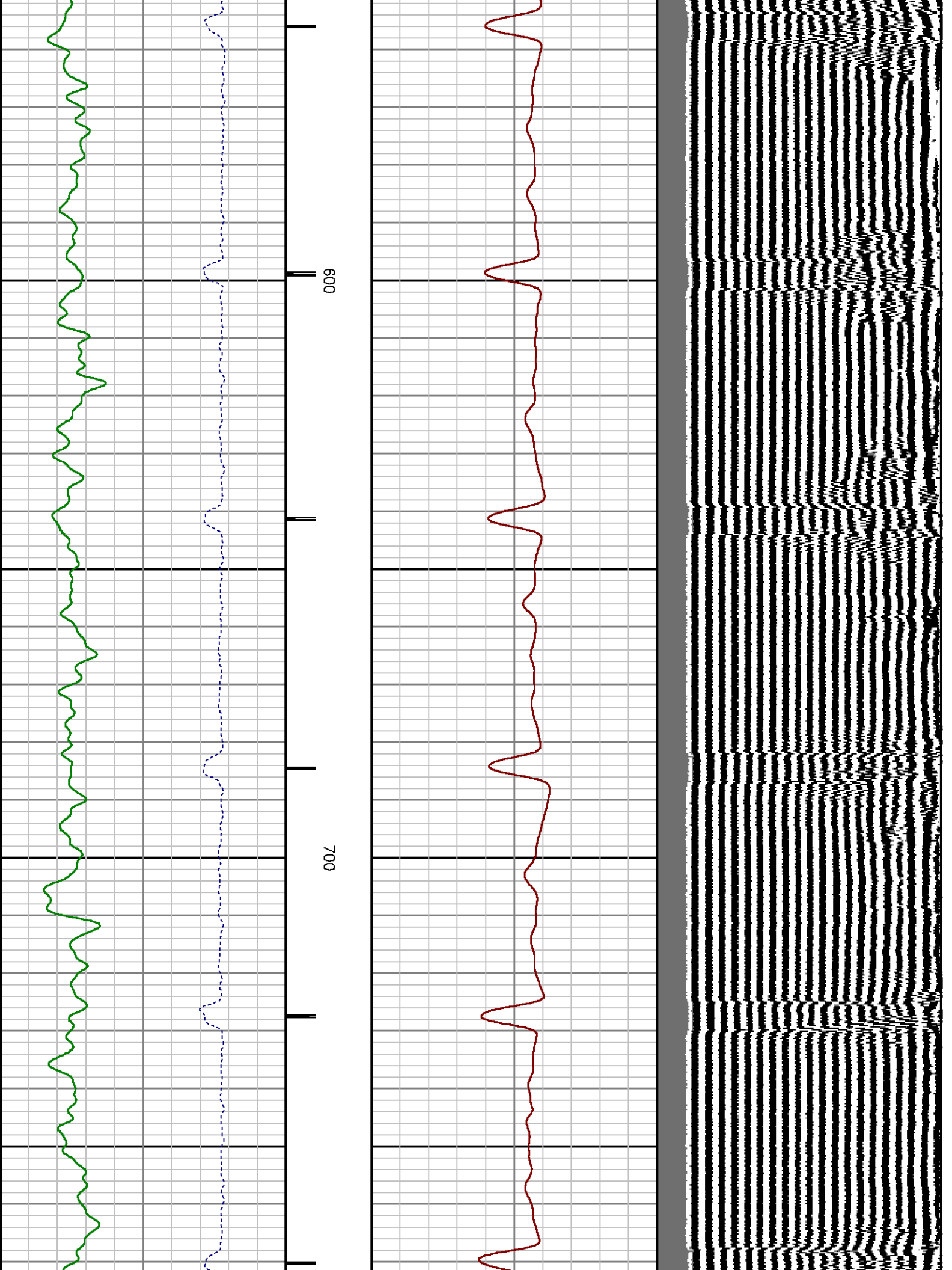
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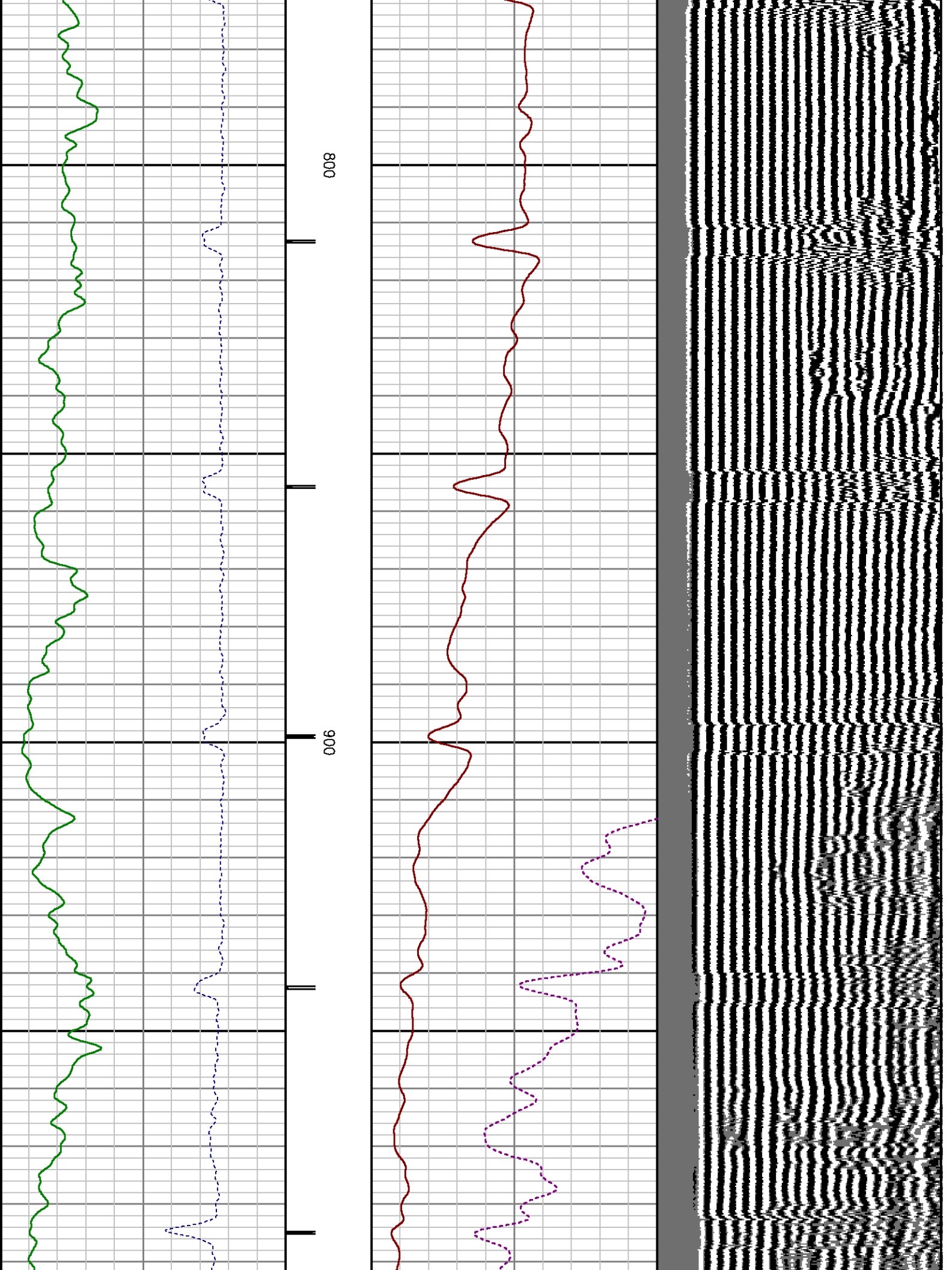
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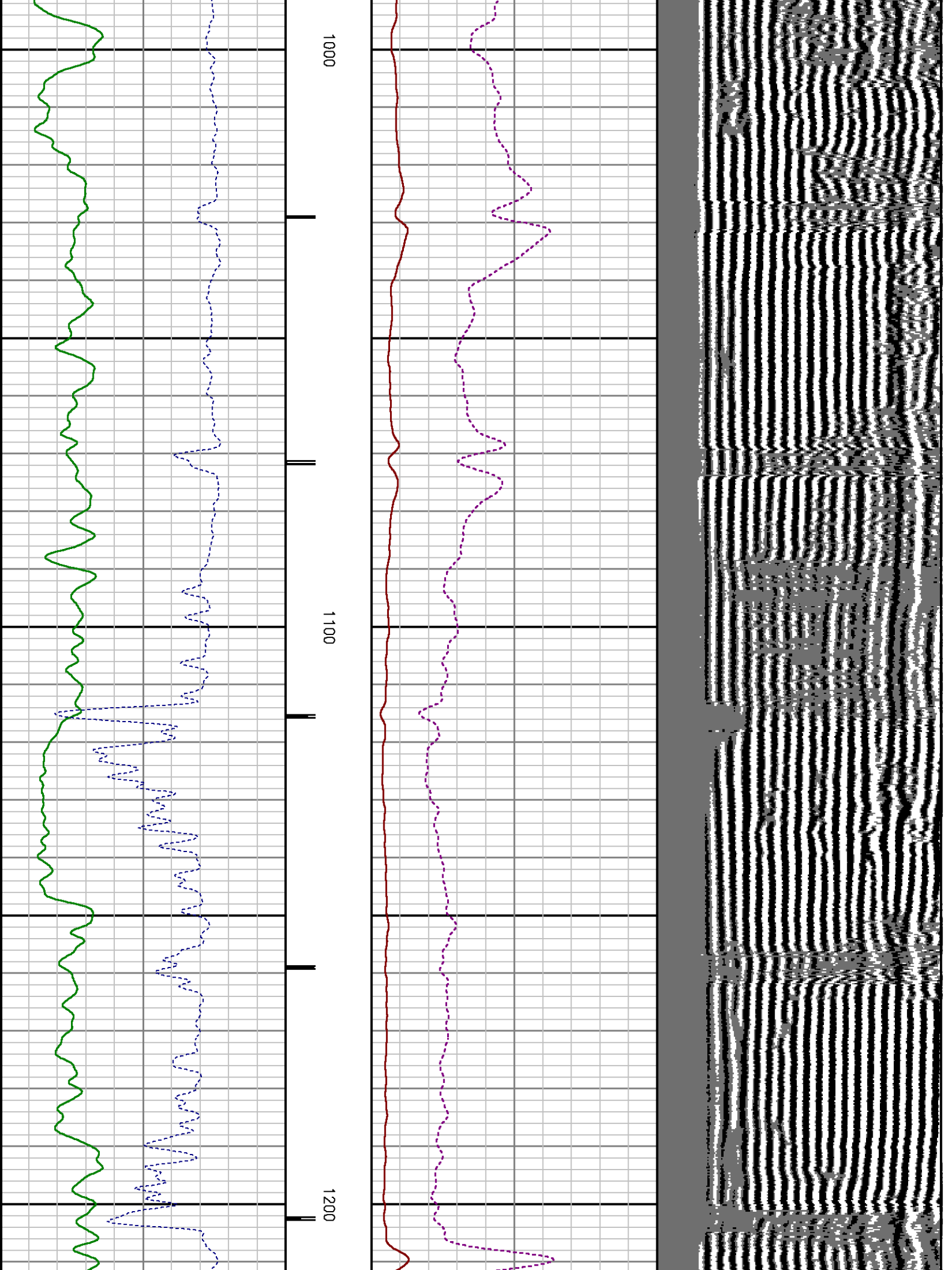


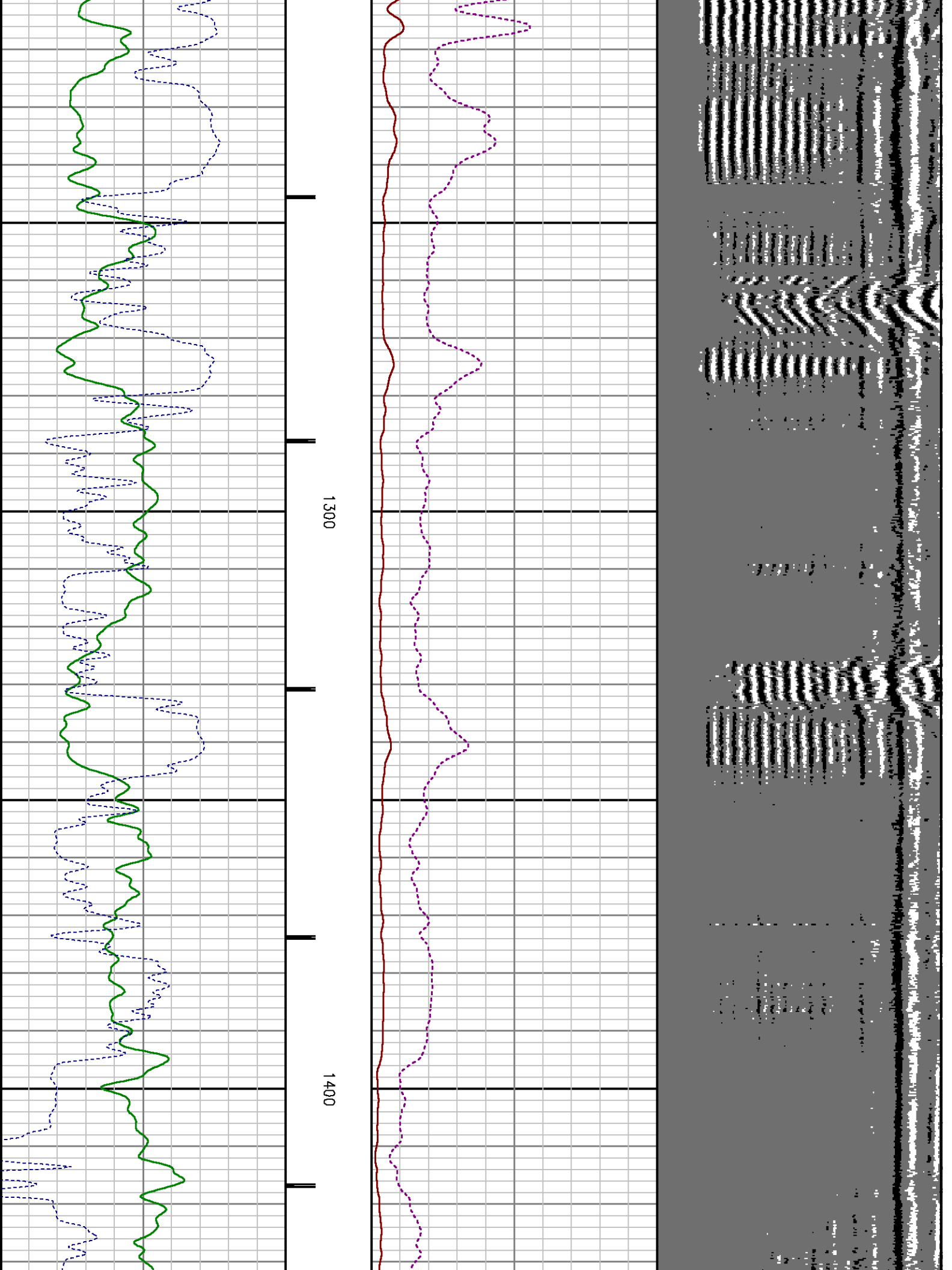


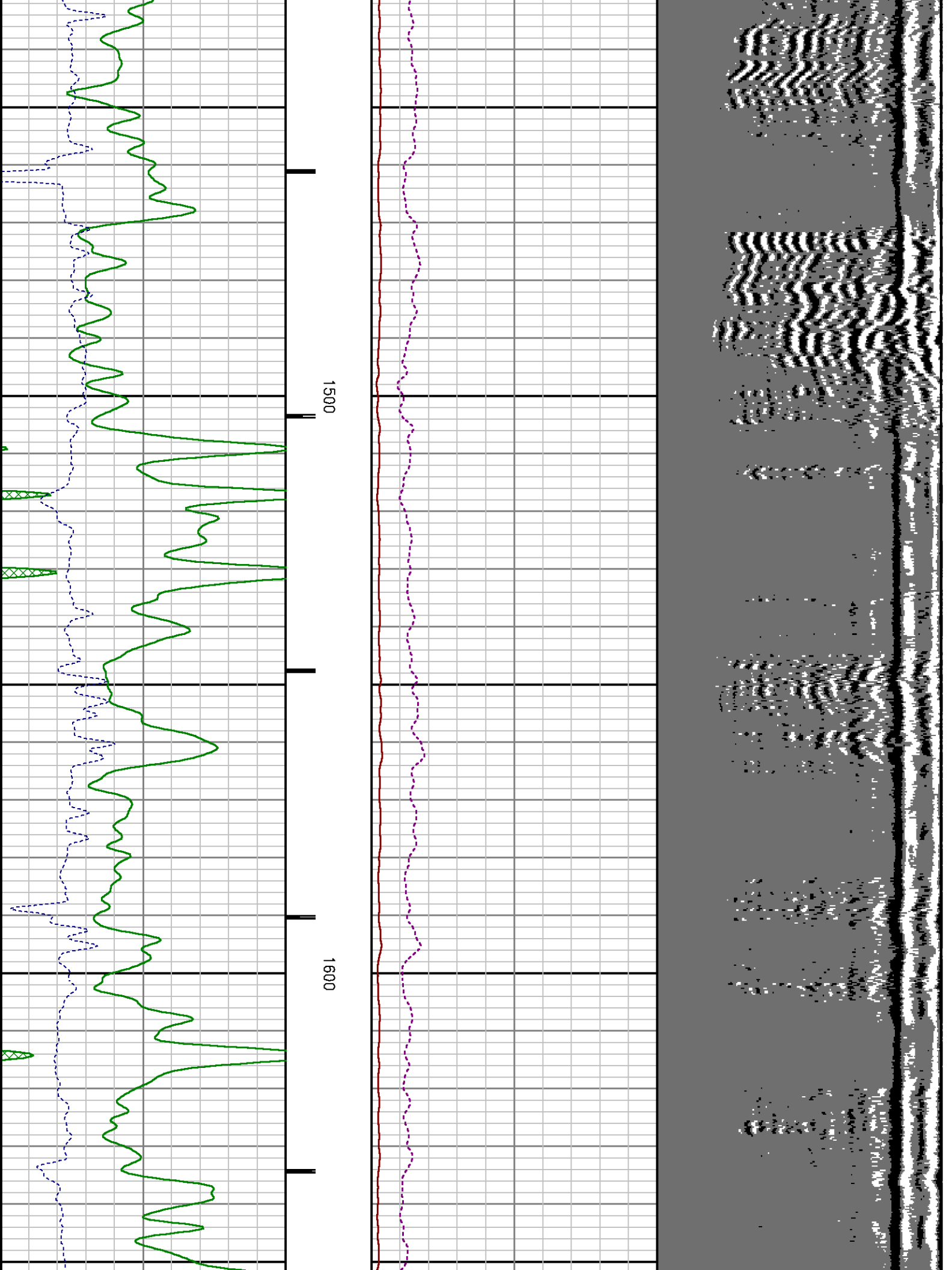


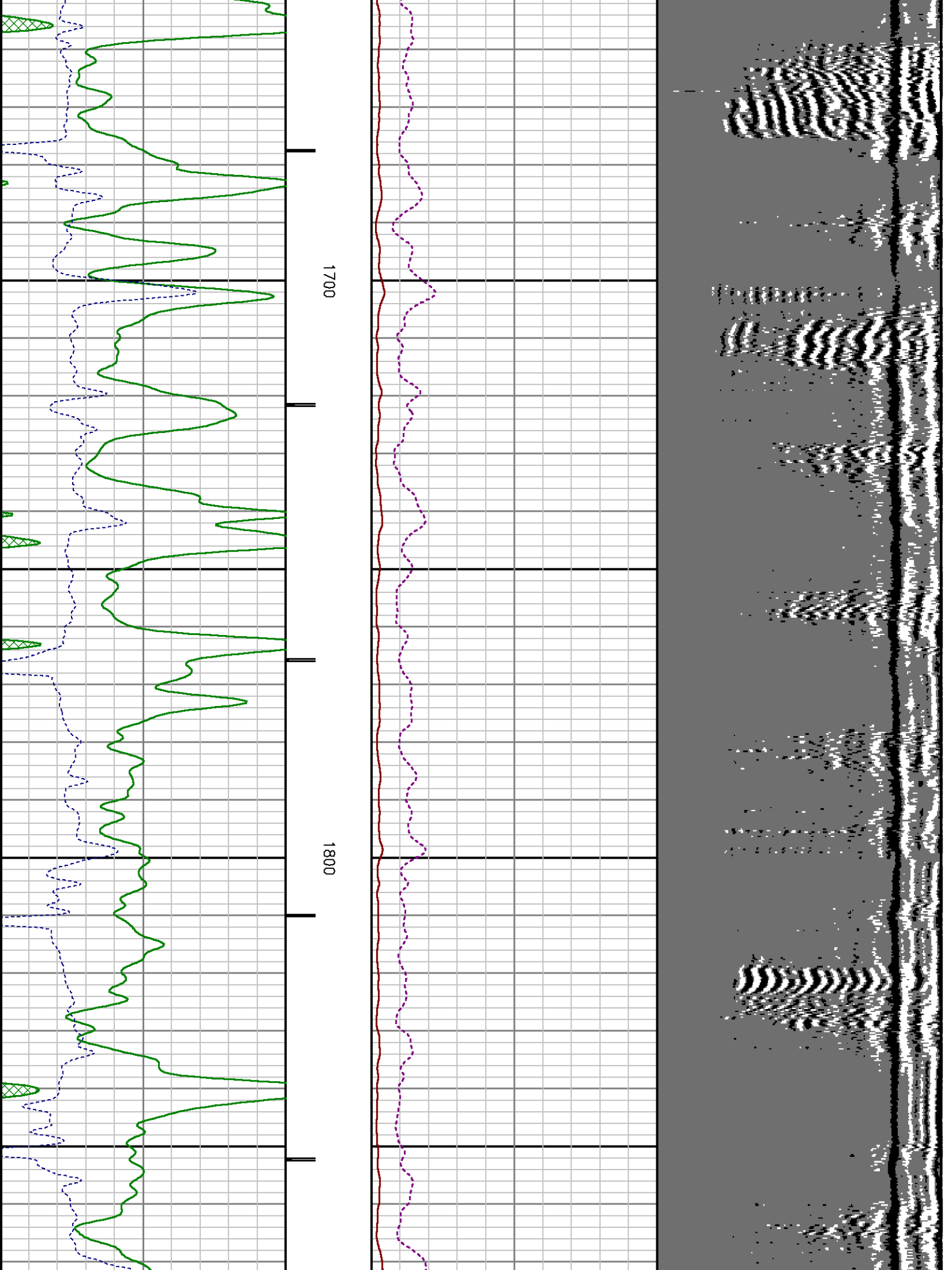


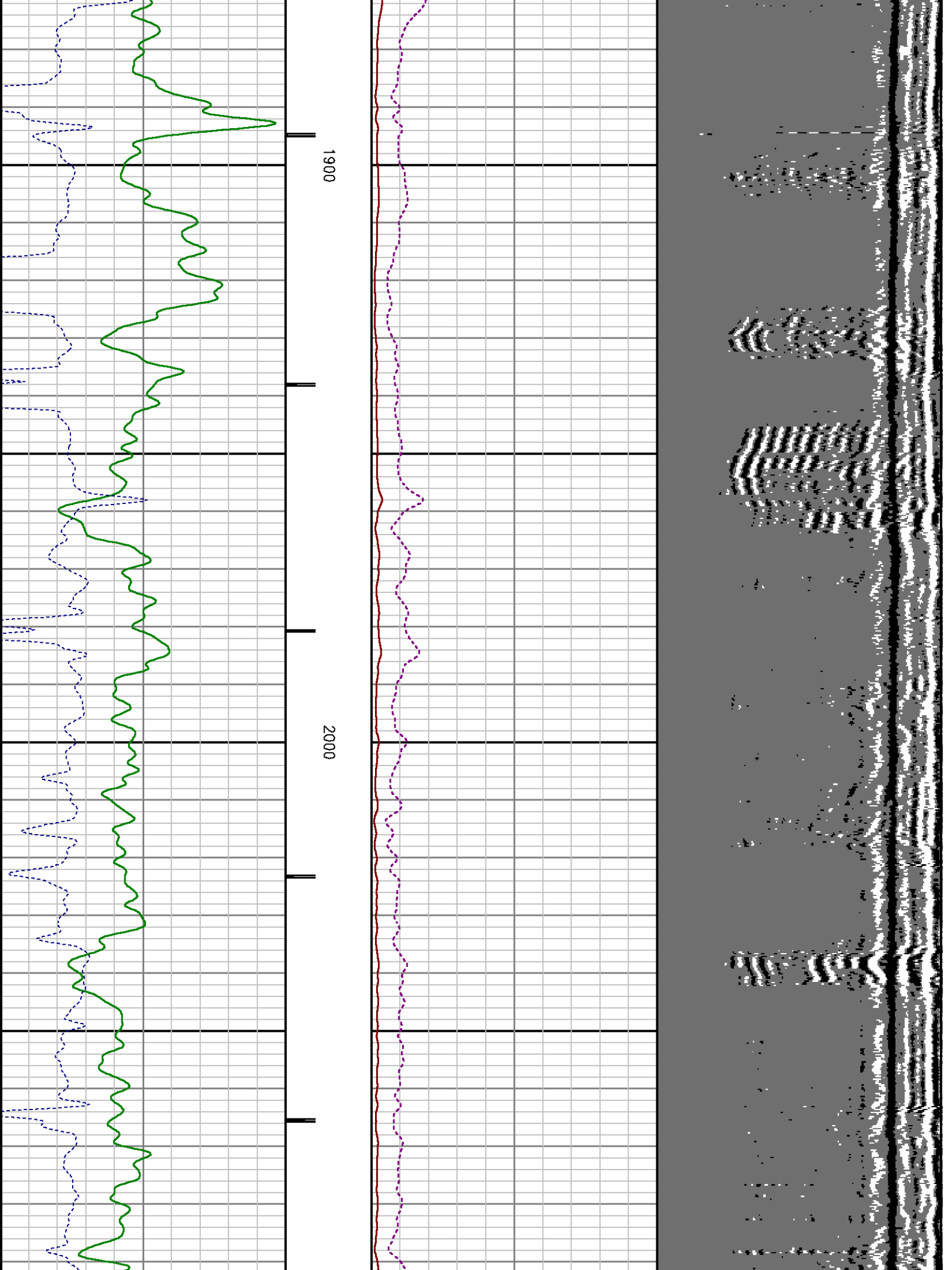


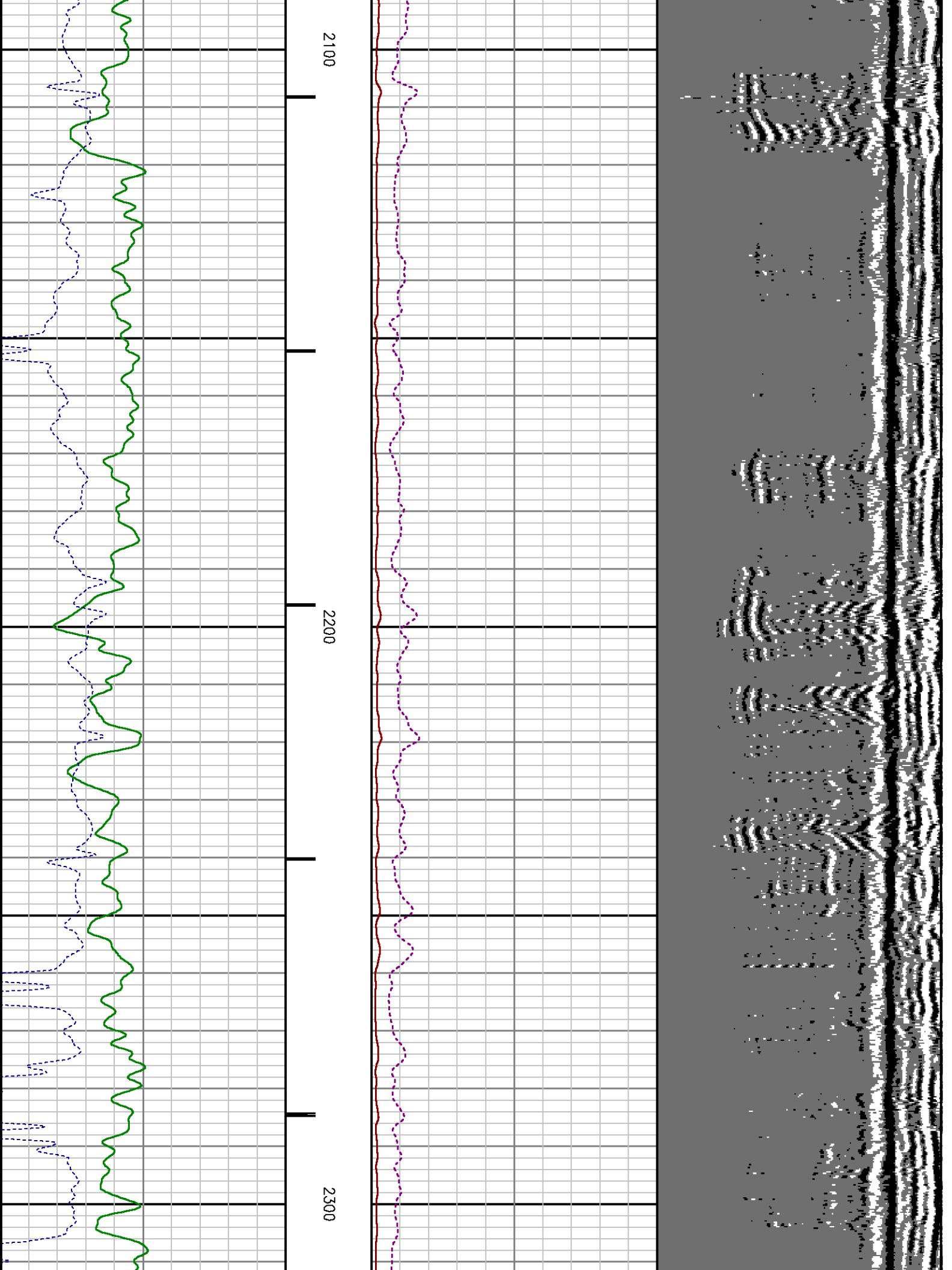


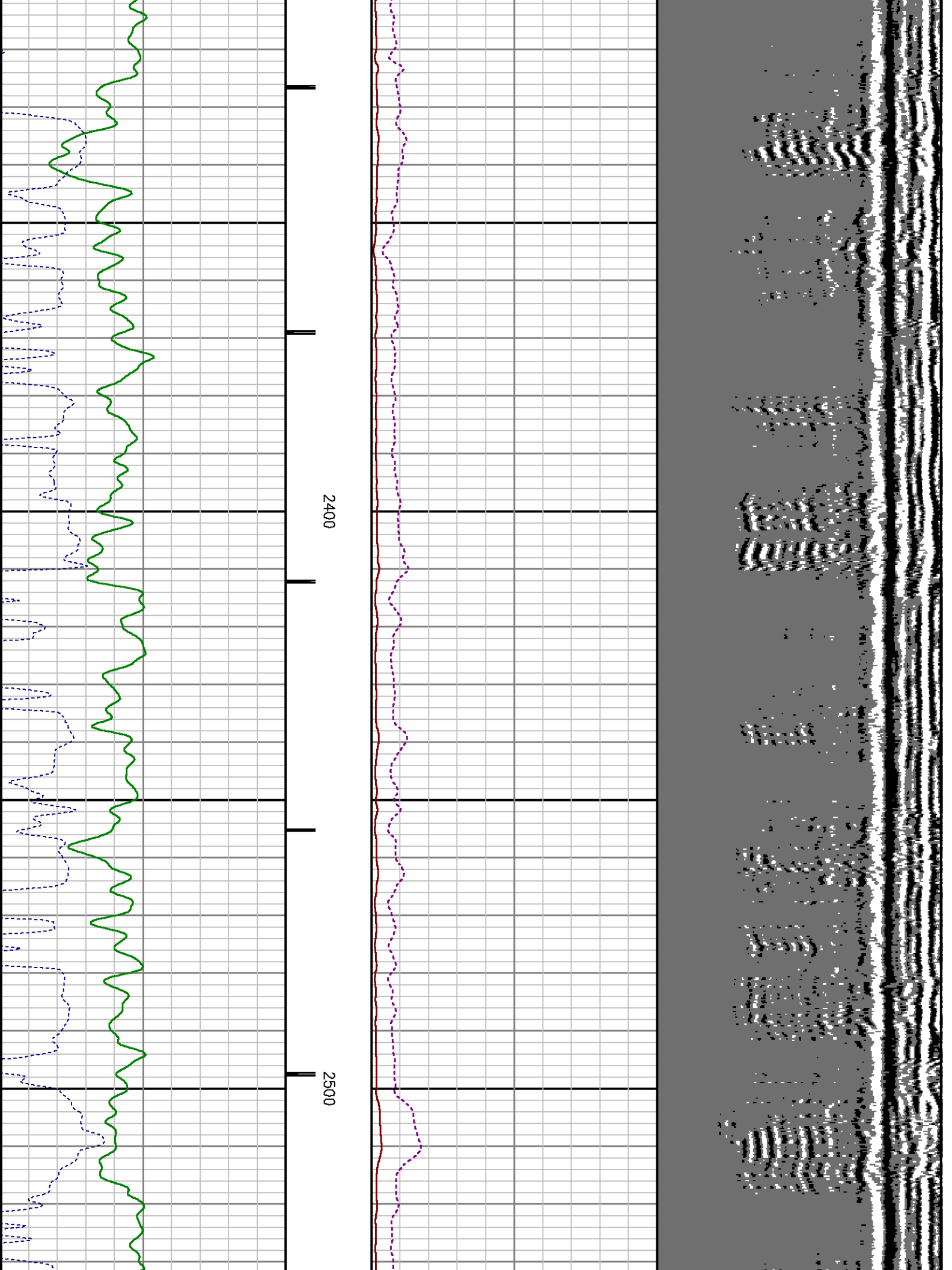


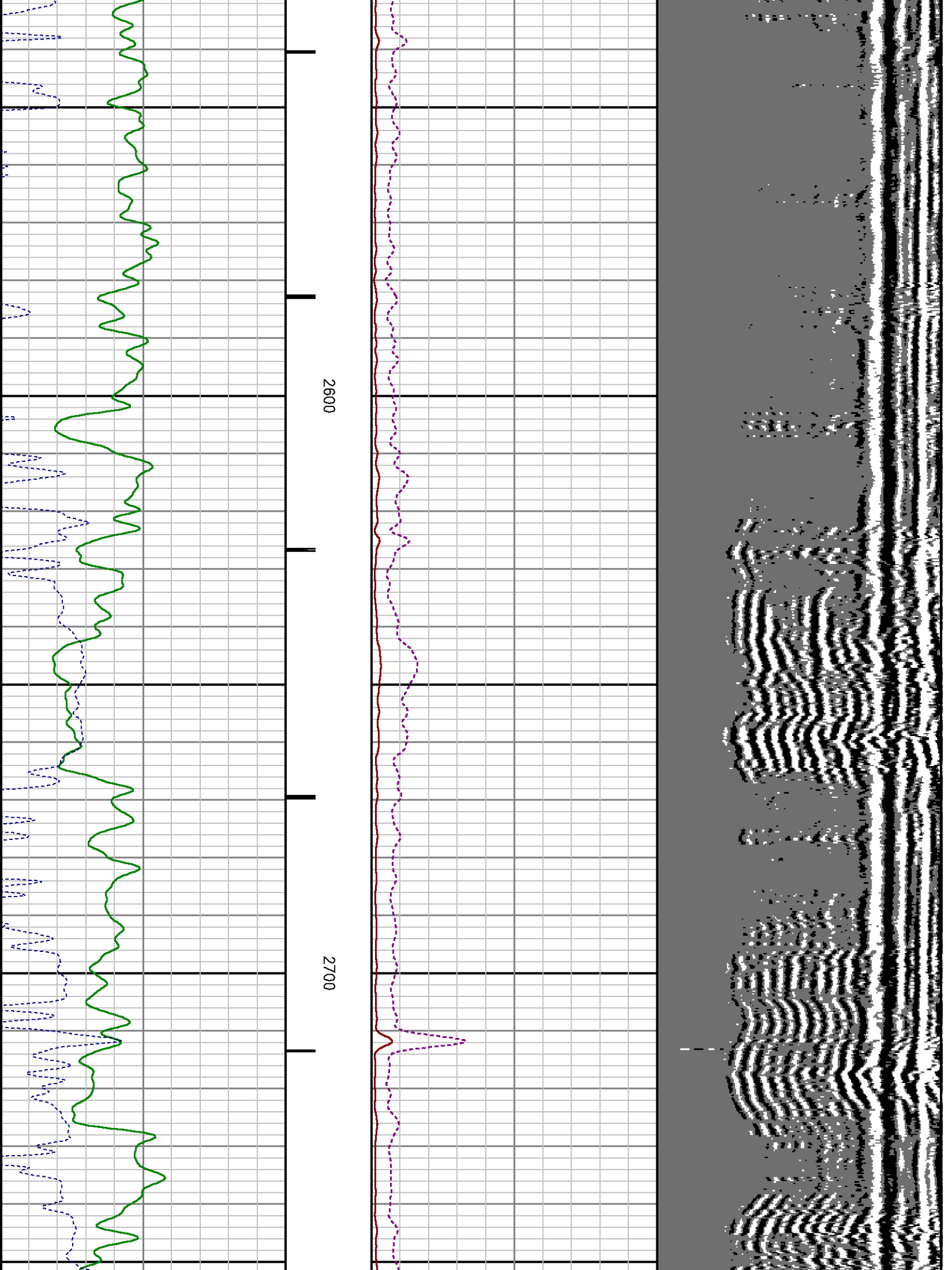


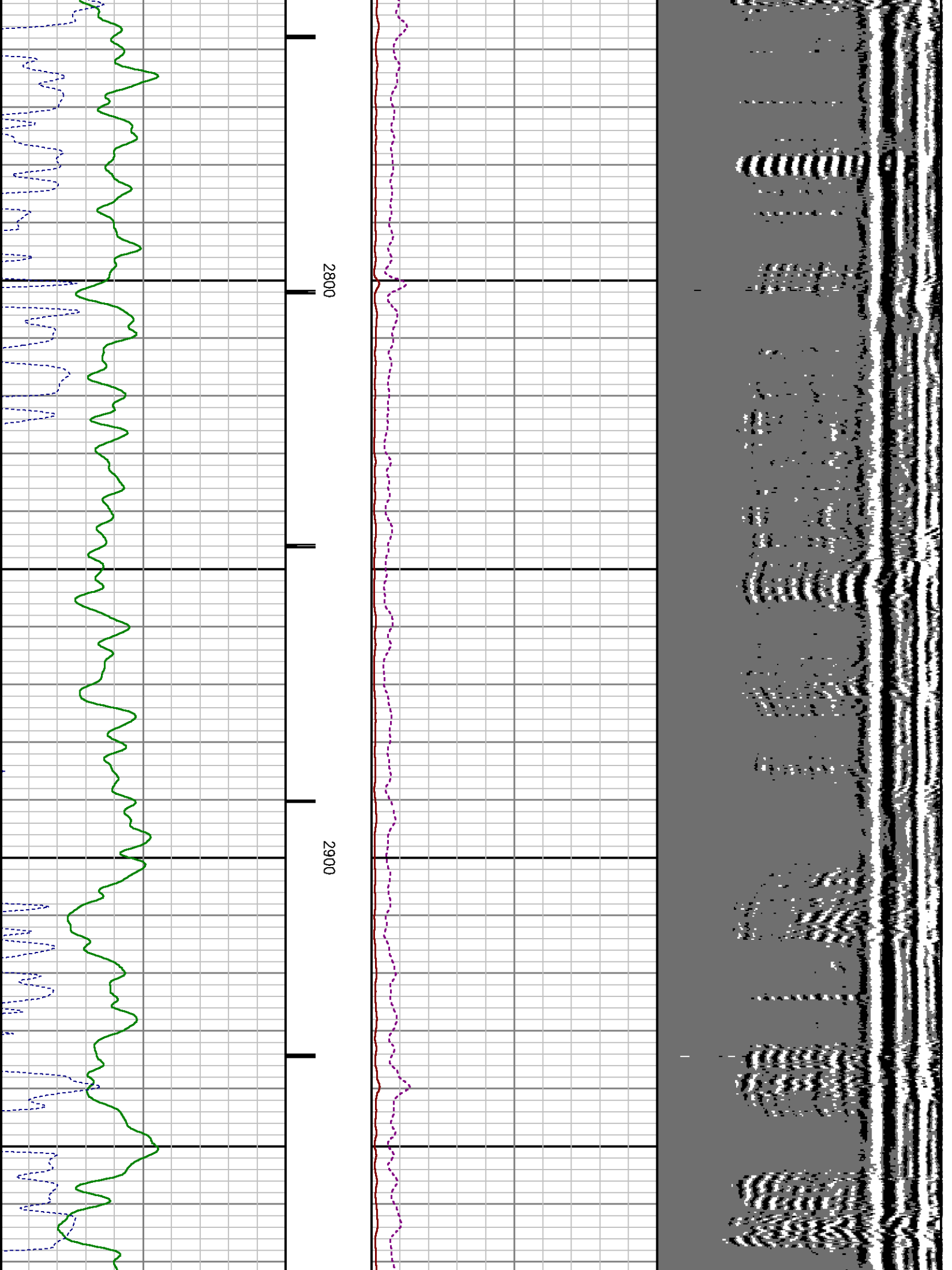


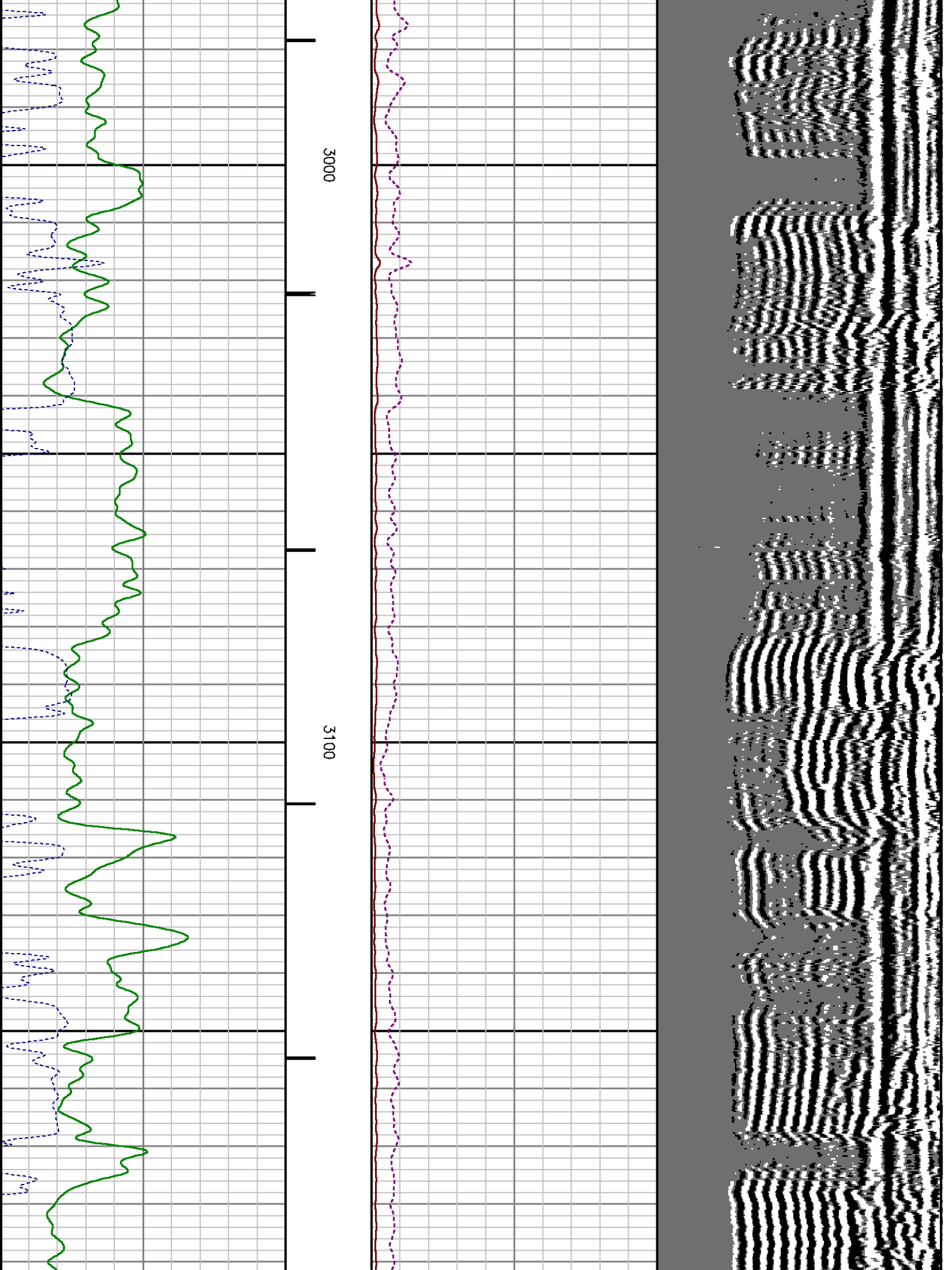


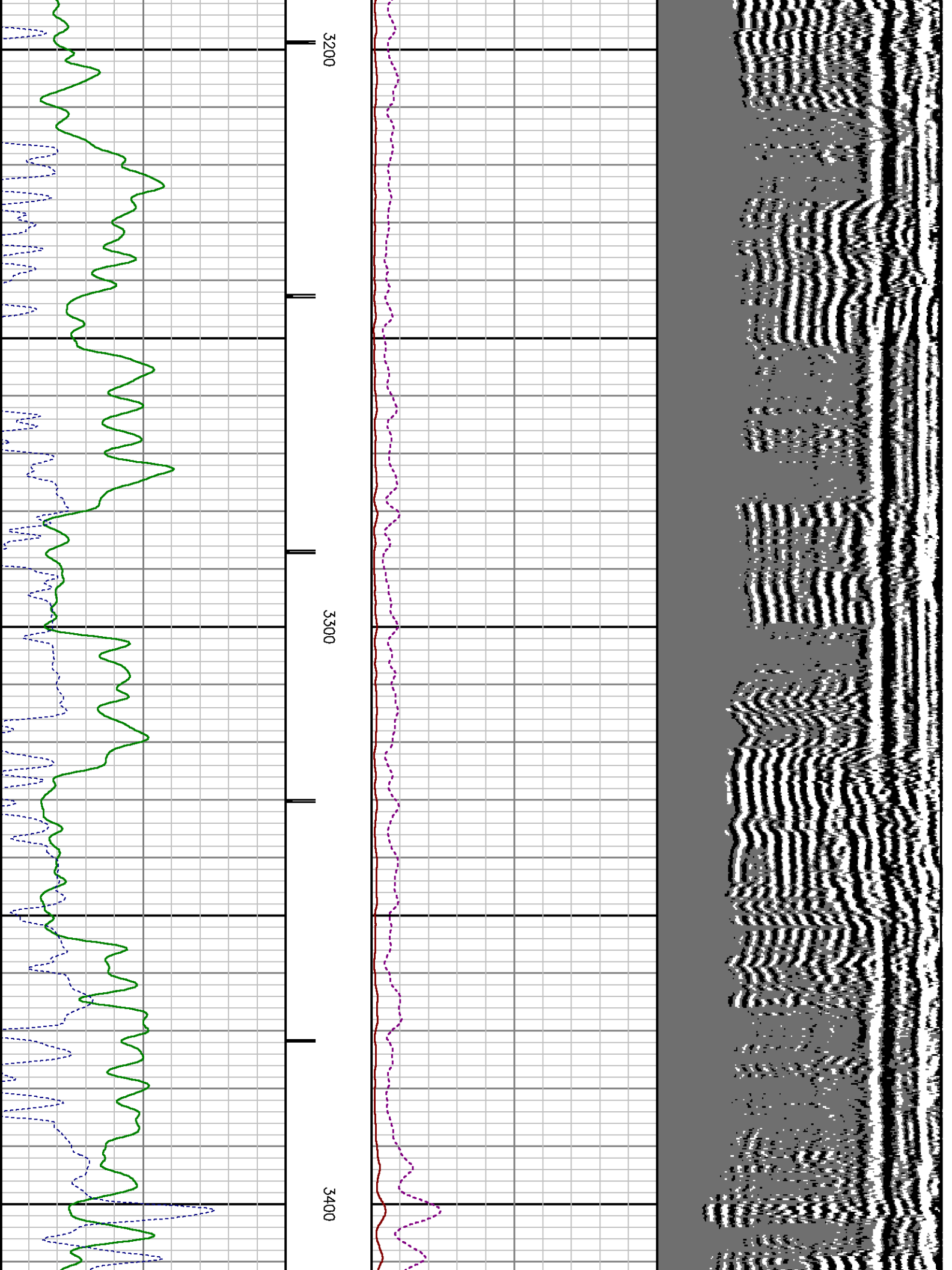


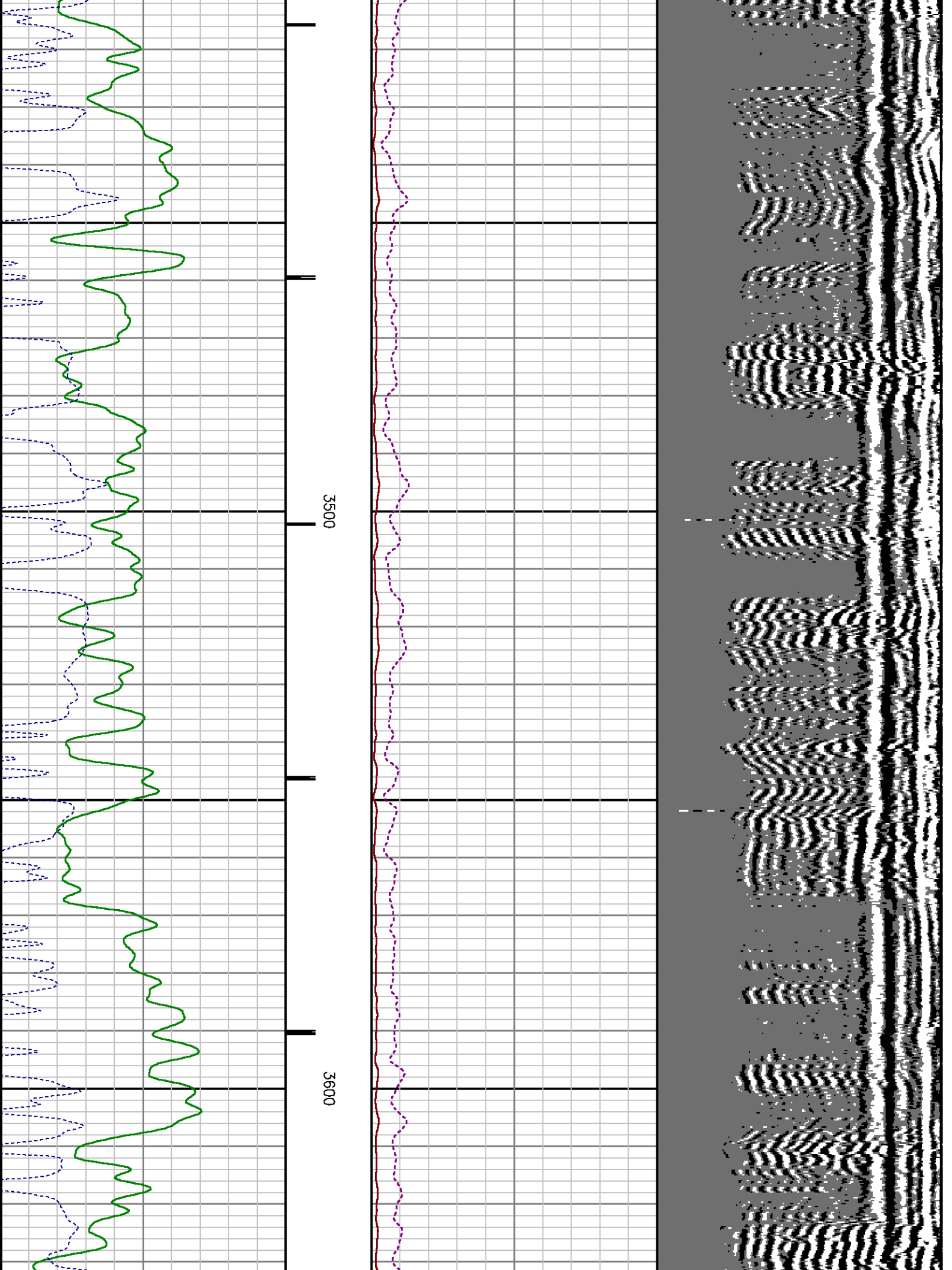


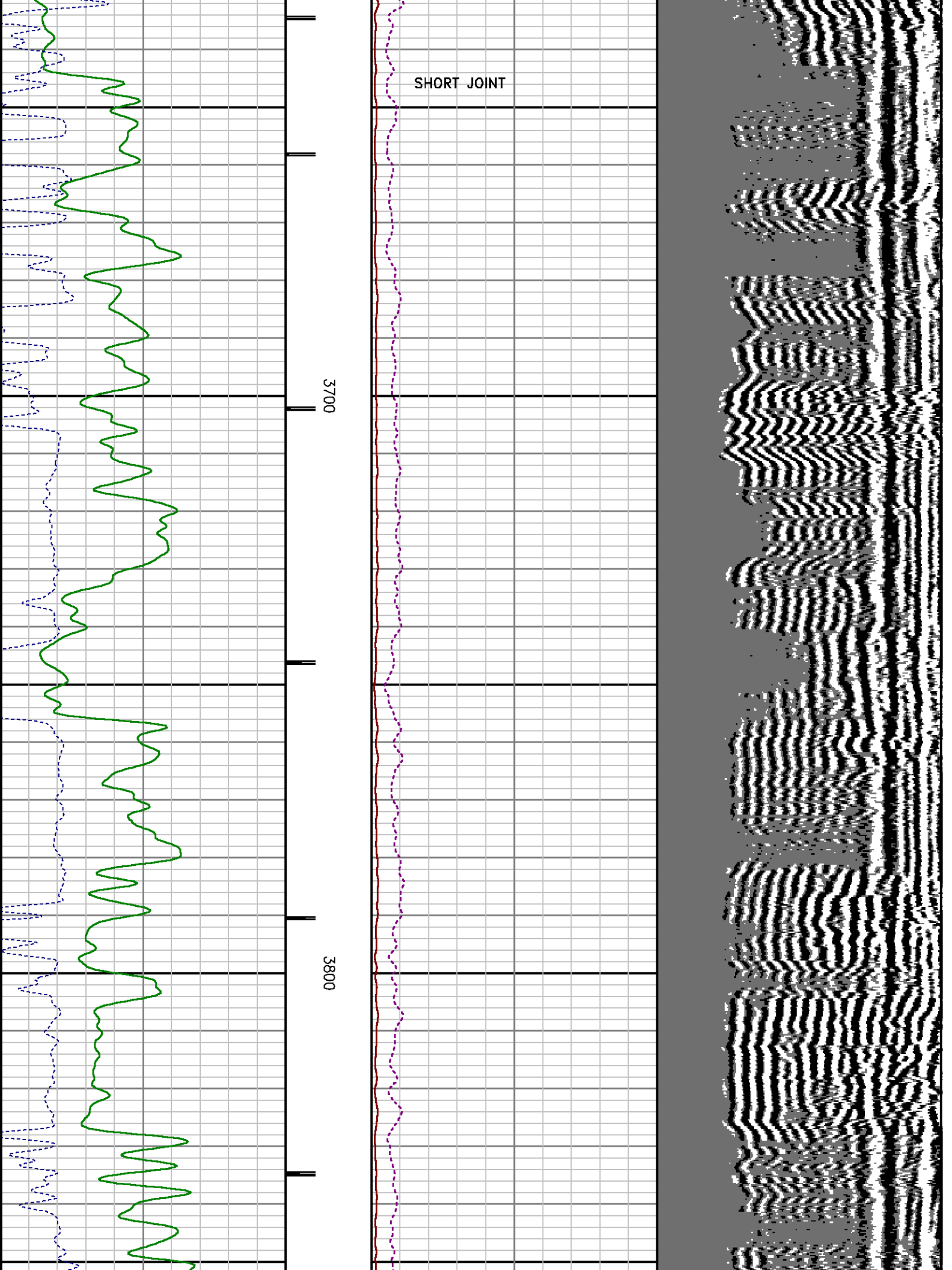


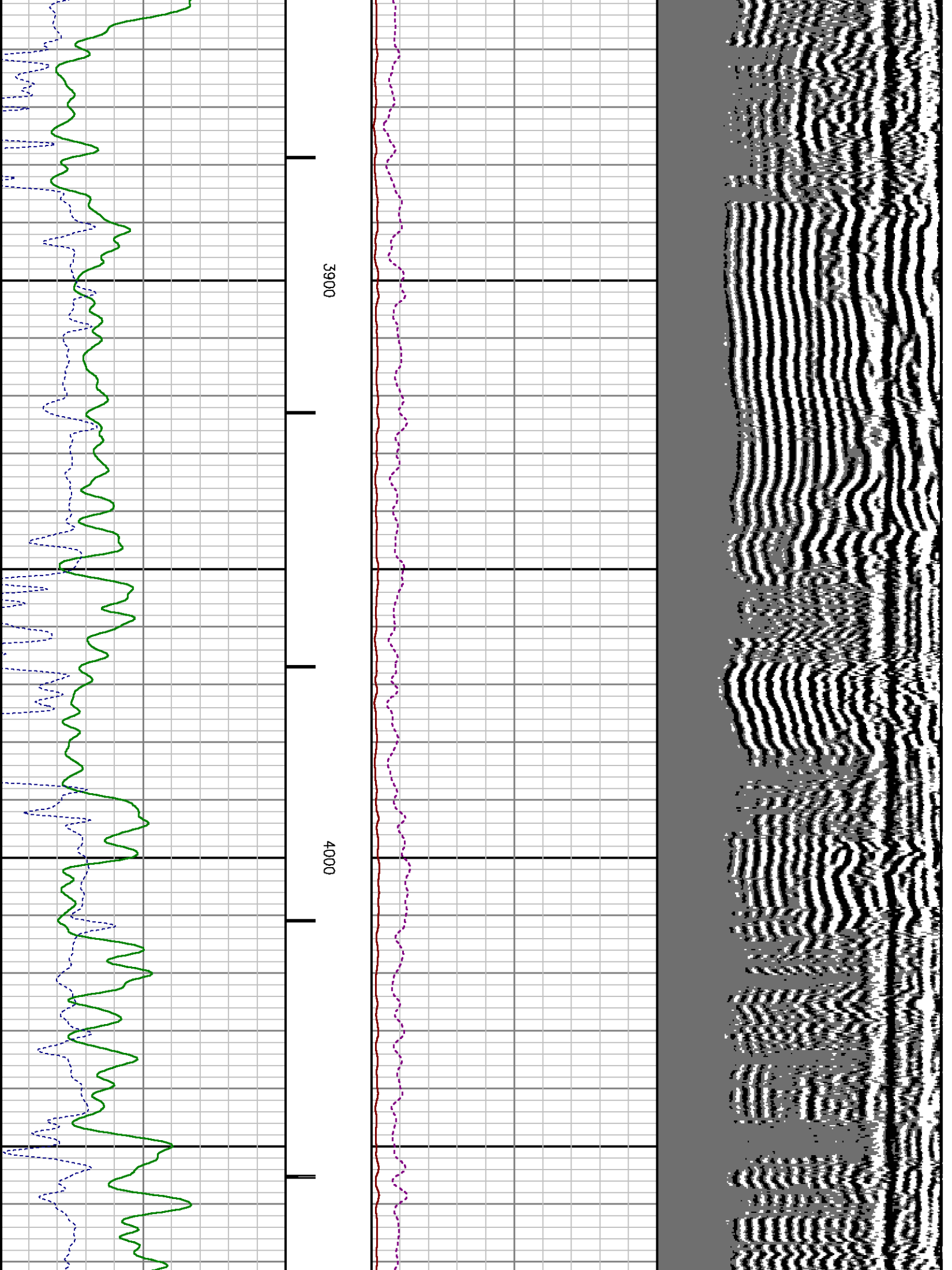


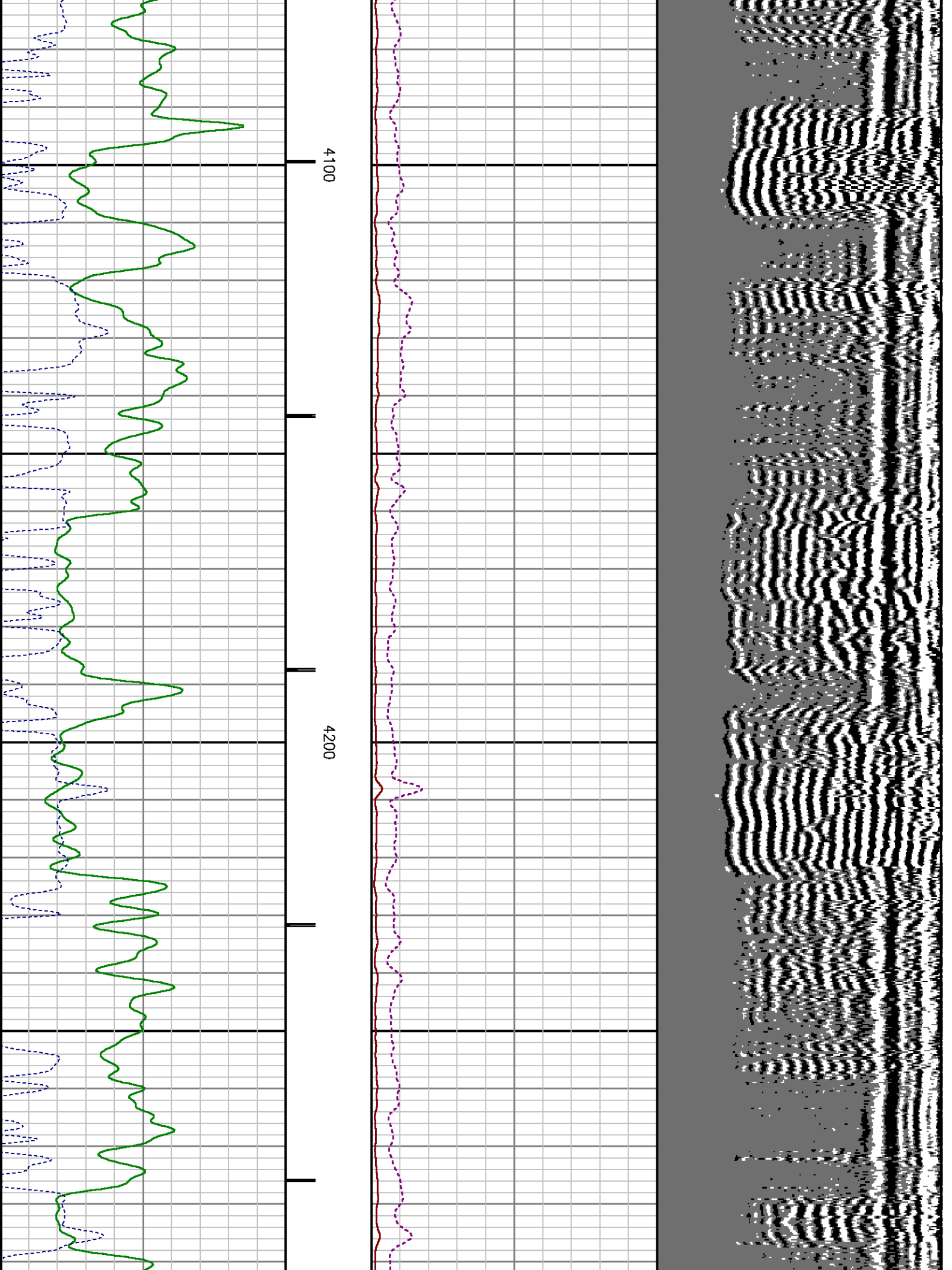


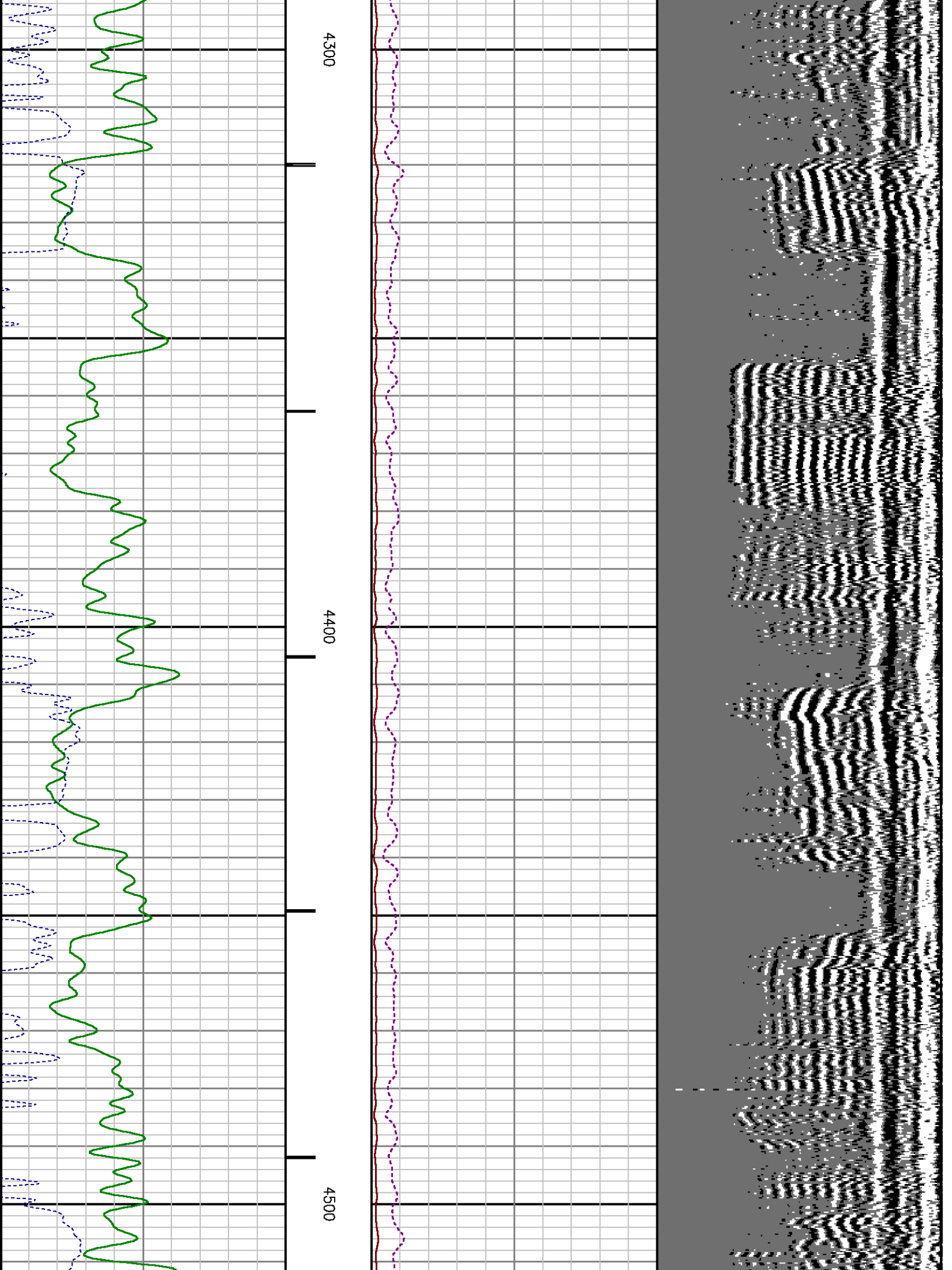


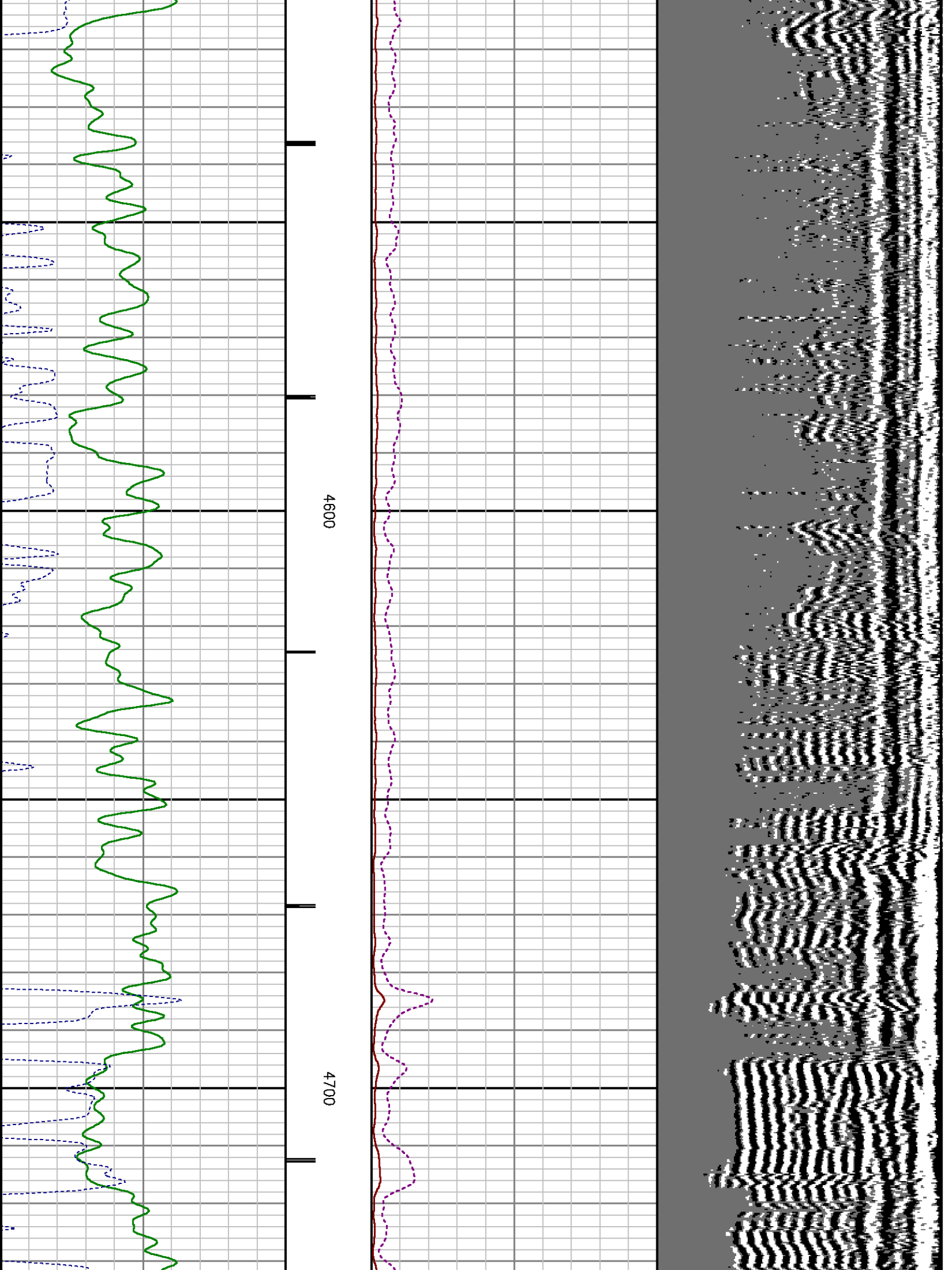


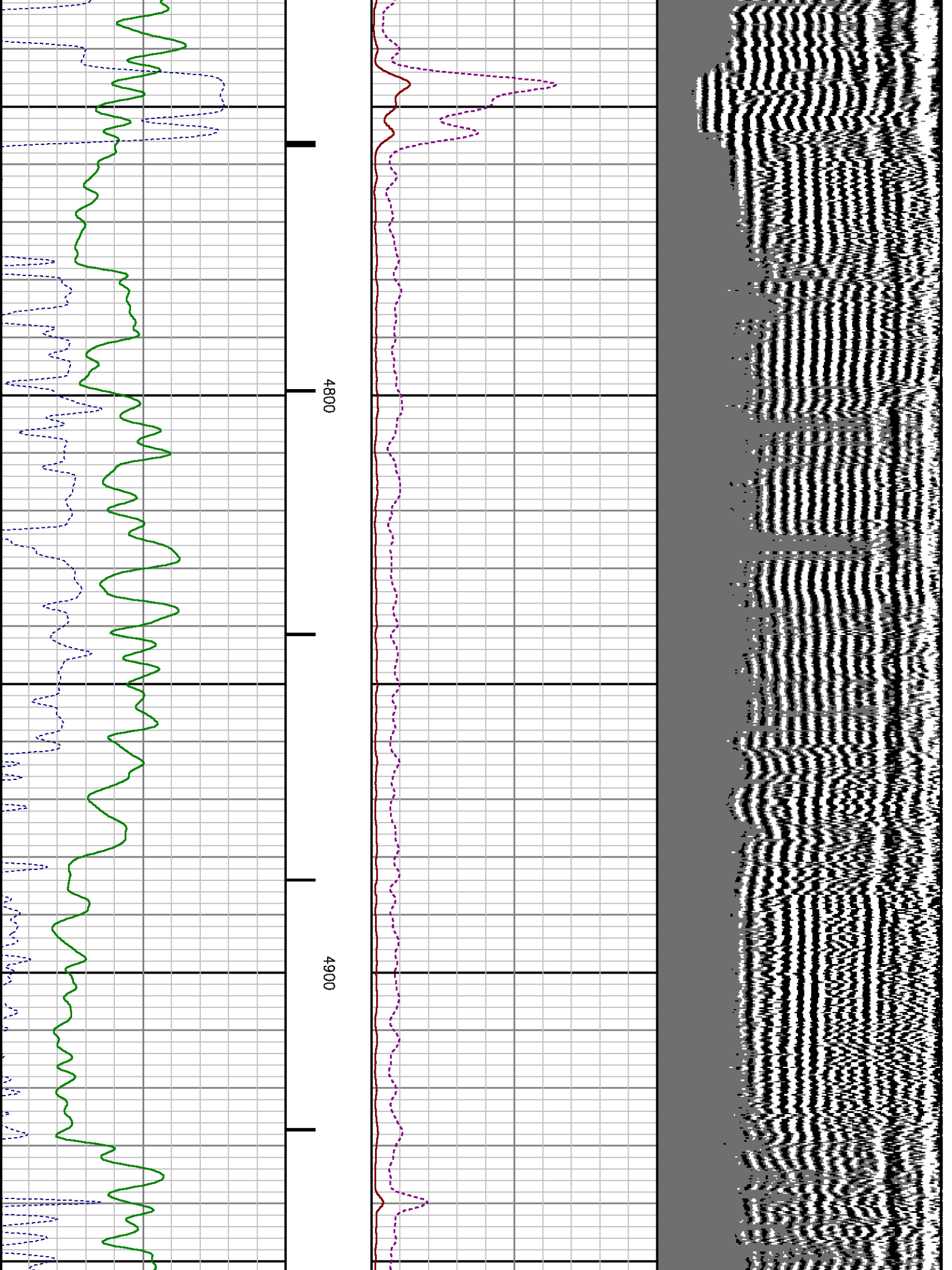


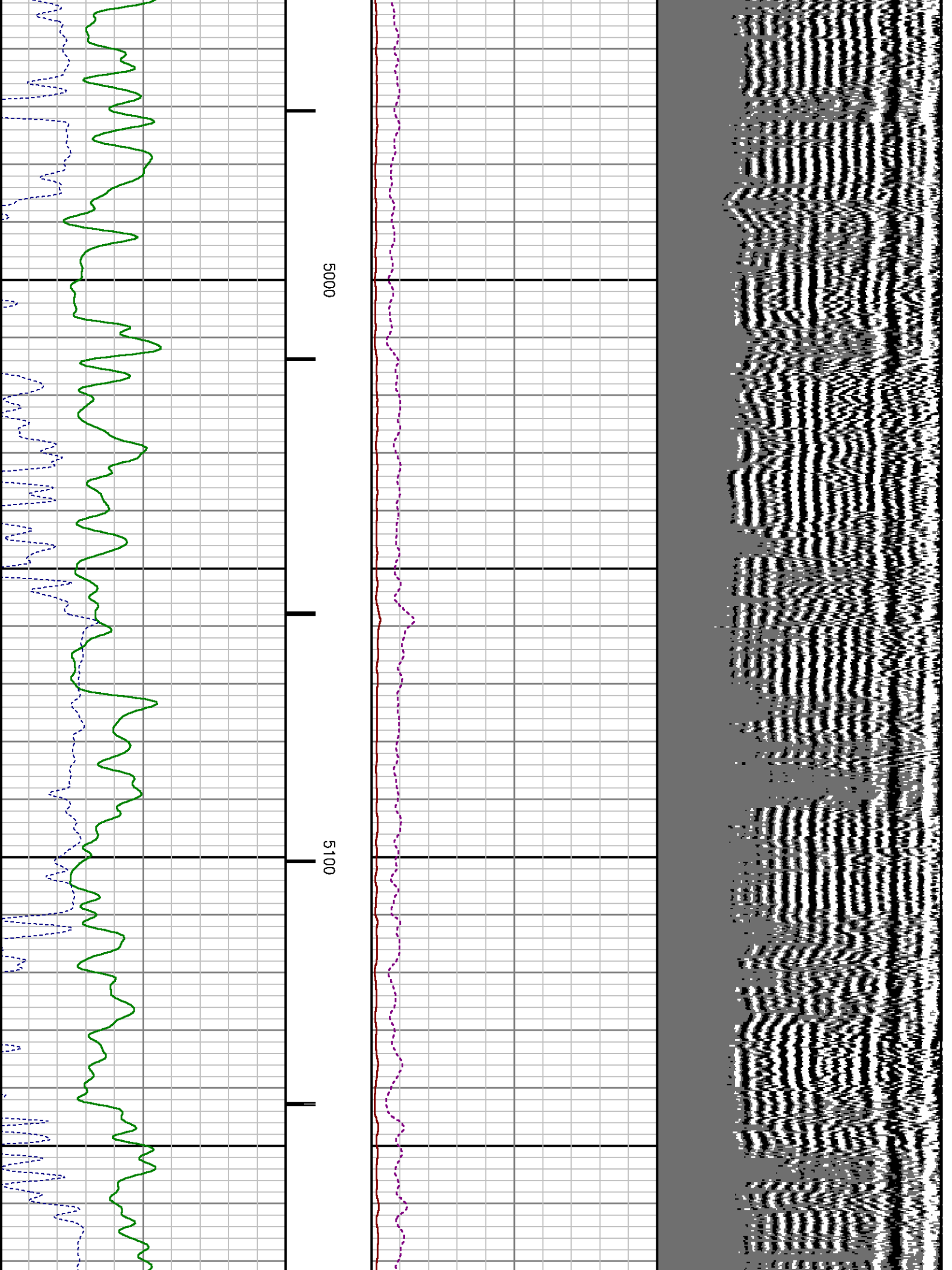


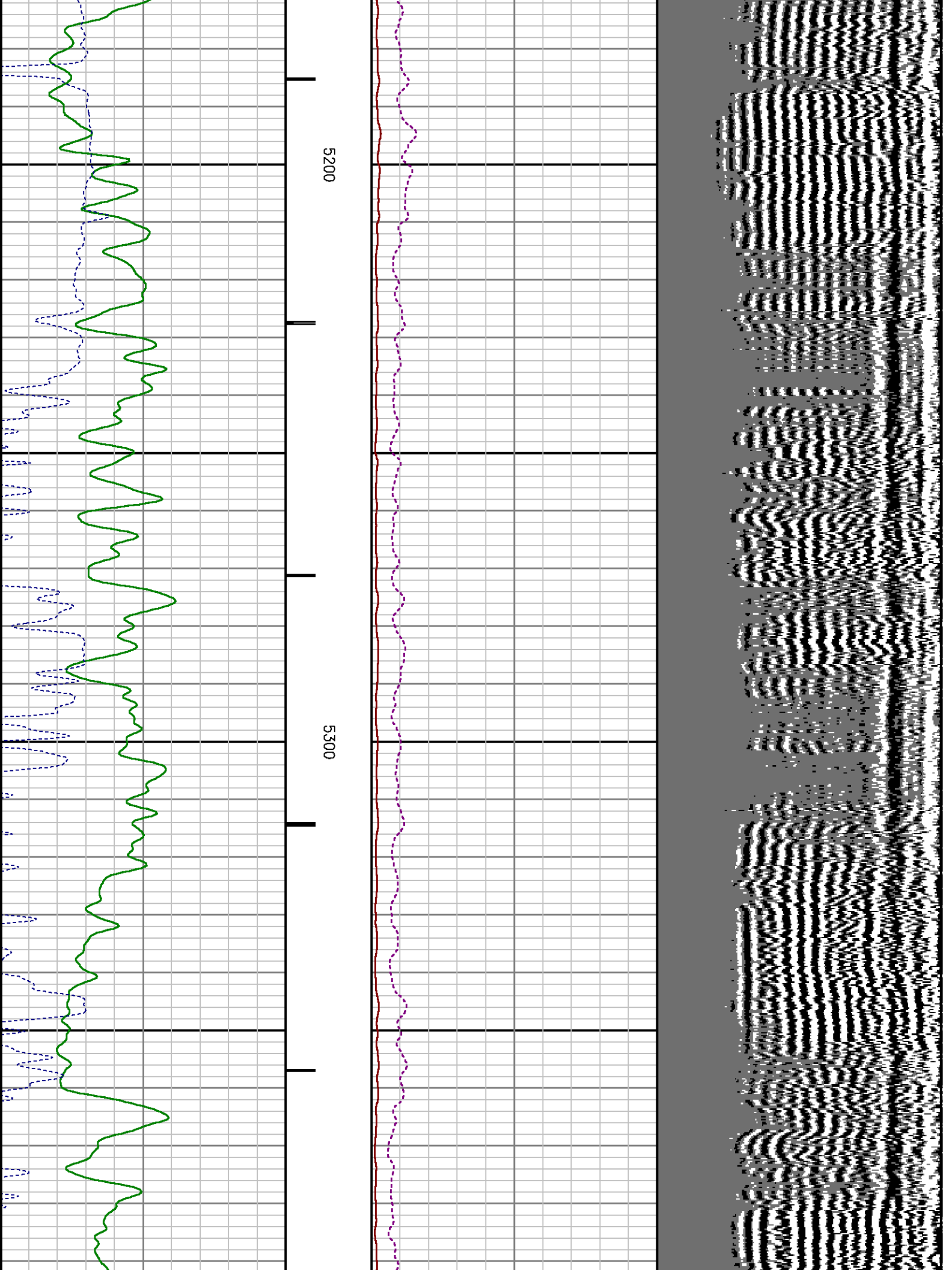


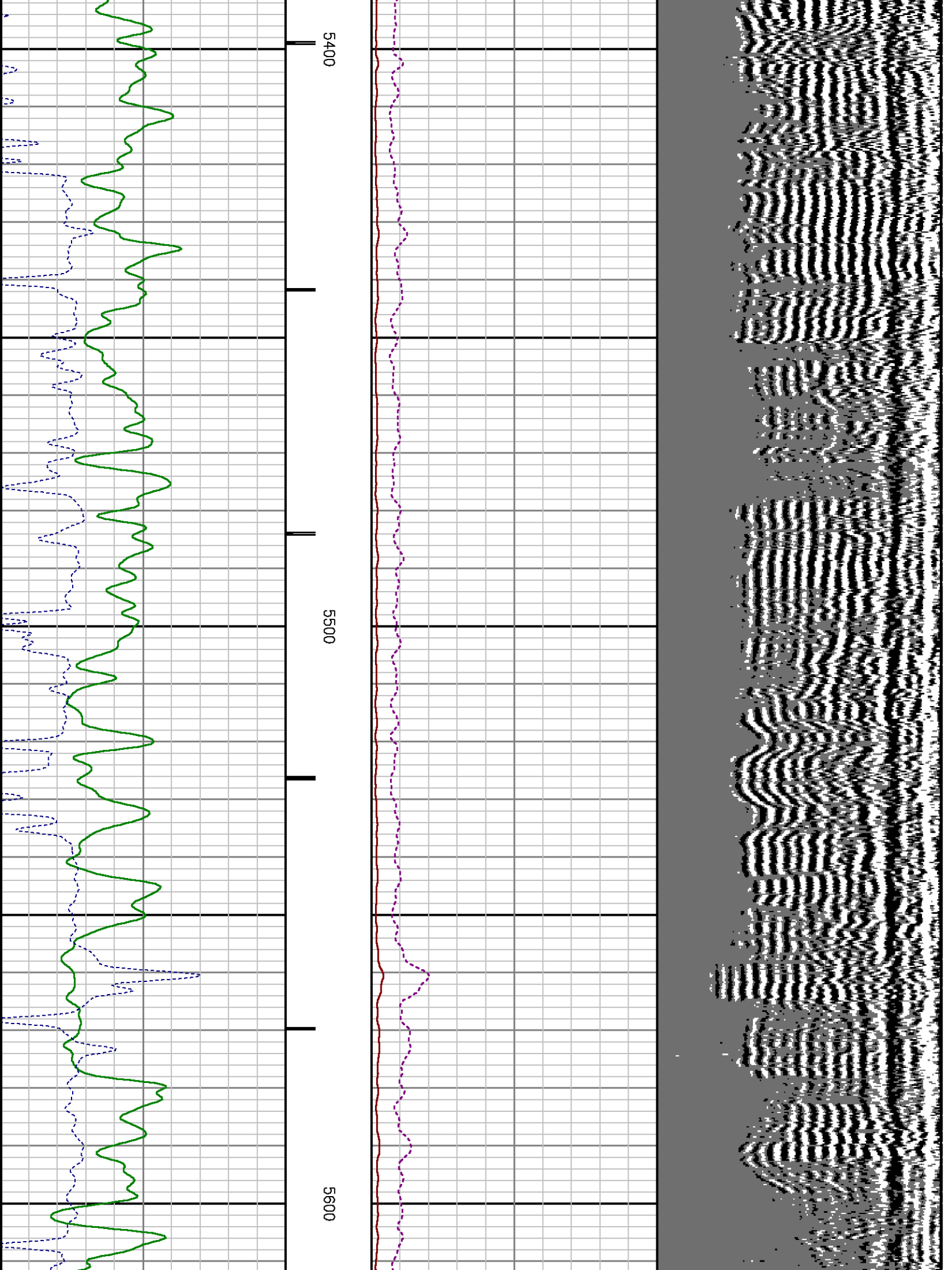


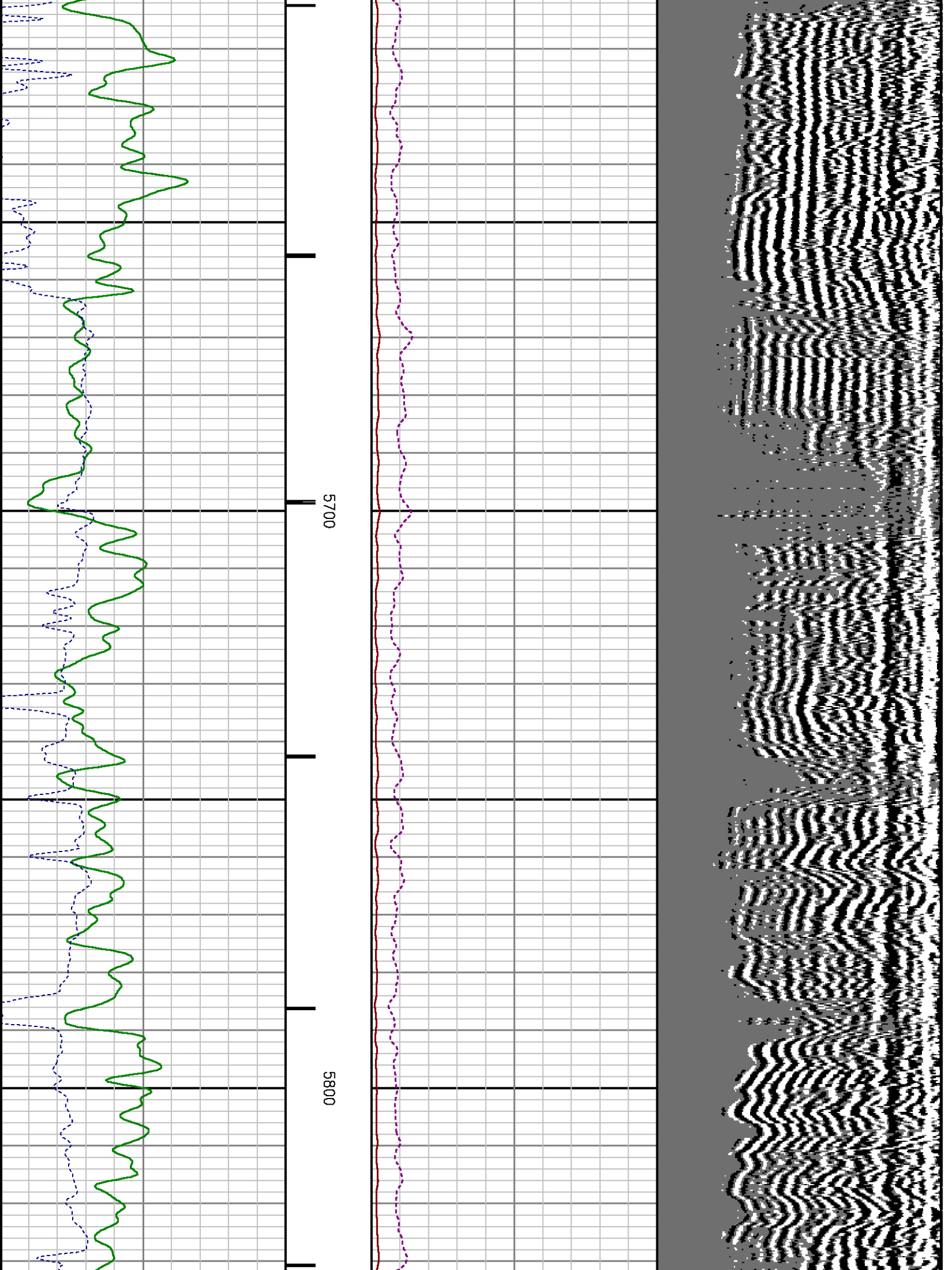


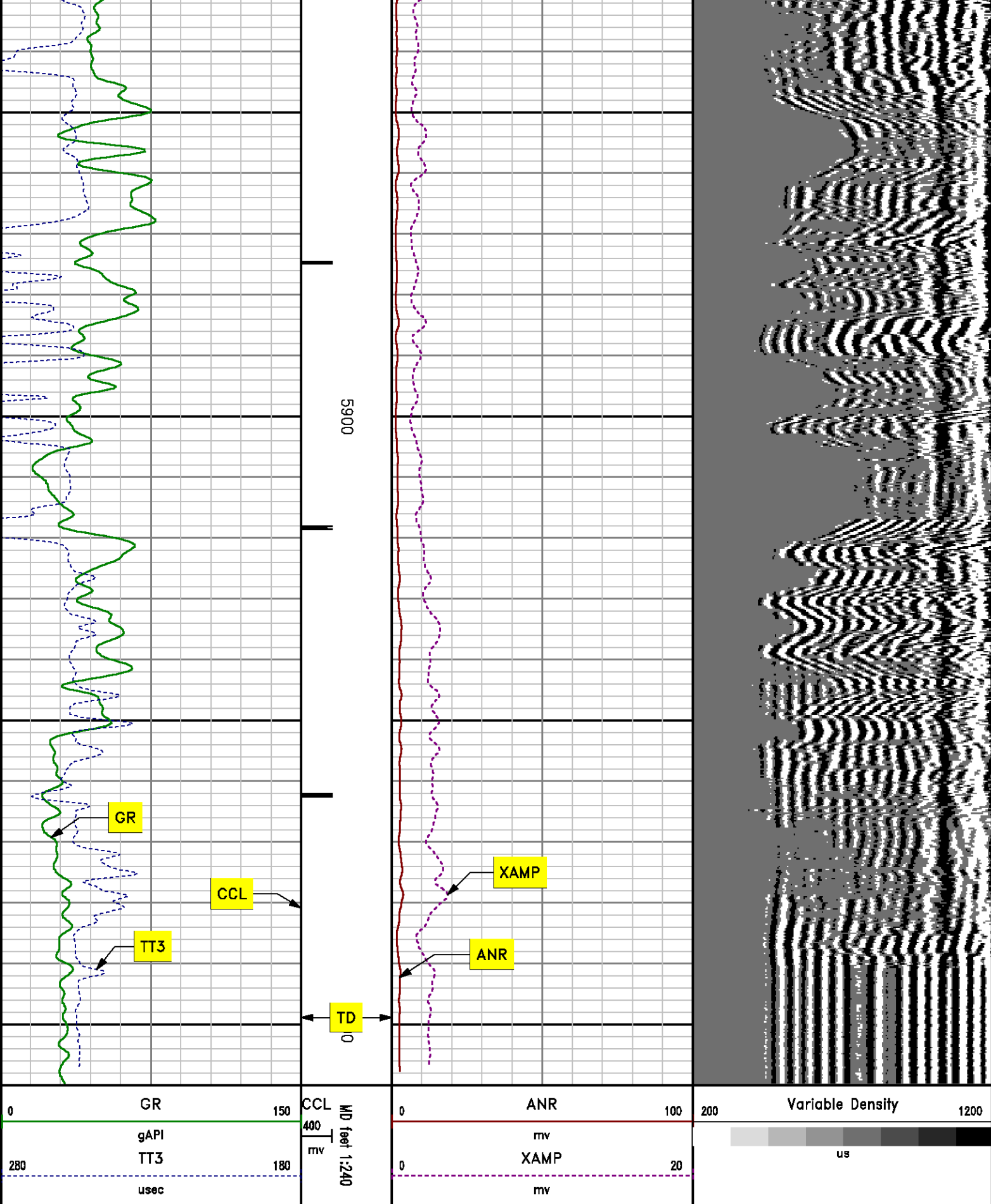












MAIN LOG SECONDARY PRESENTATION

MAIN LOG SECONDARY PRESENTATION

0 PSI

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		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					

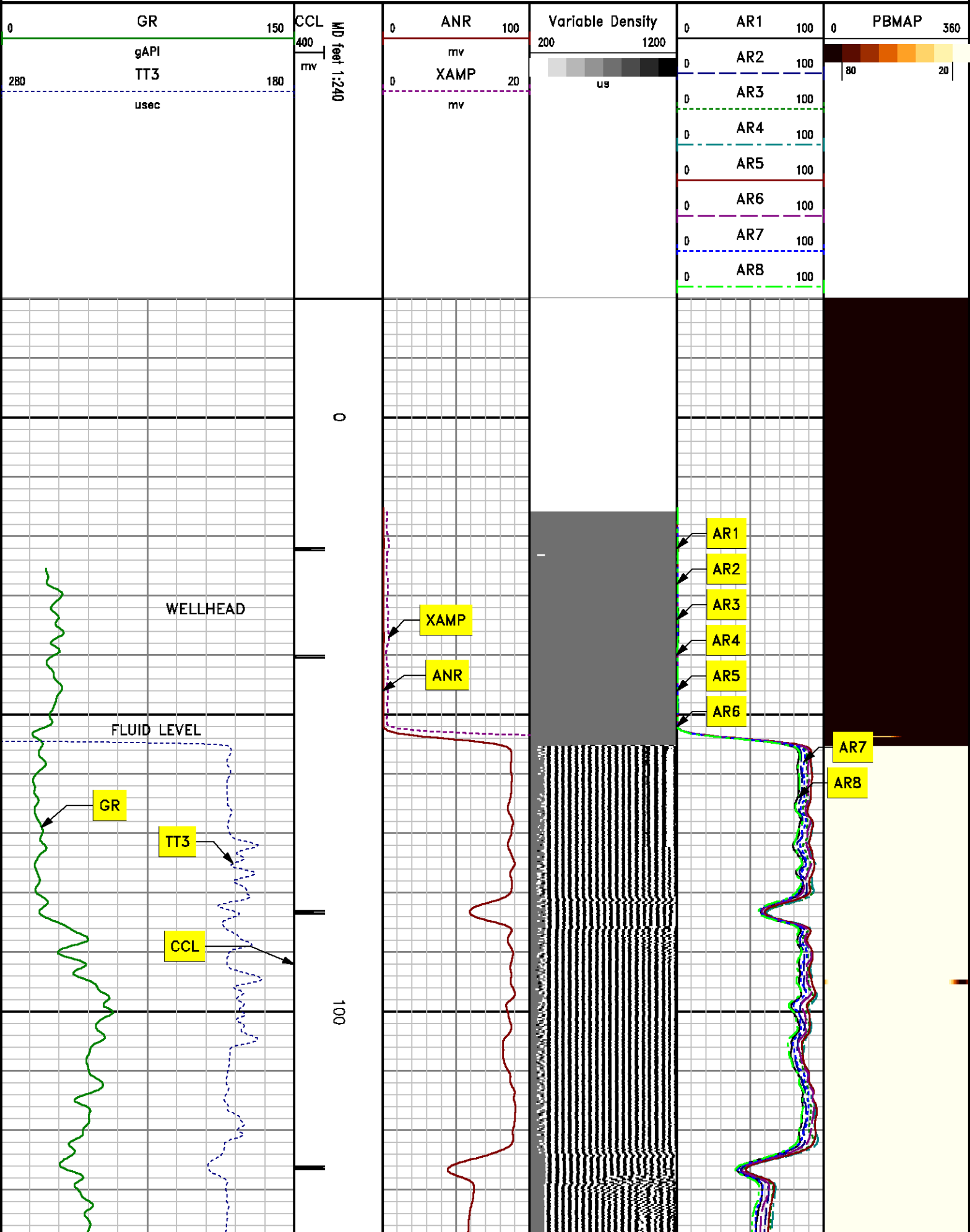
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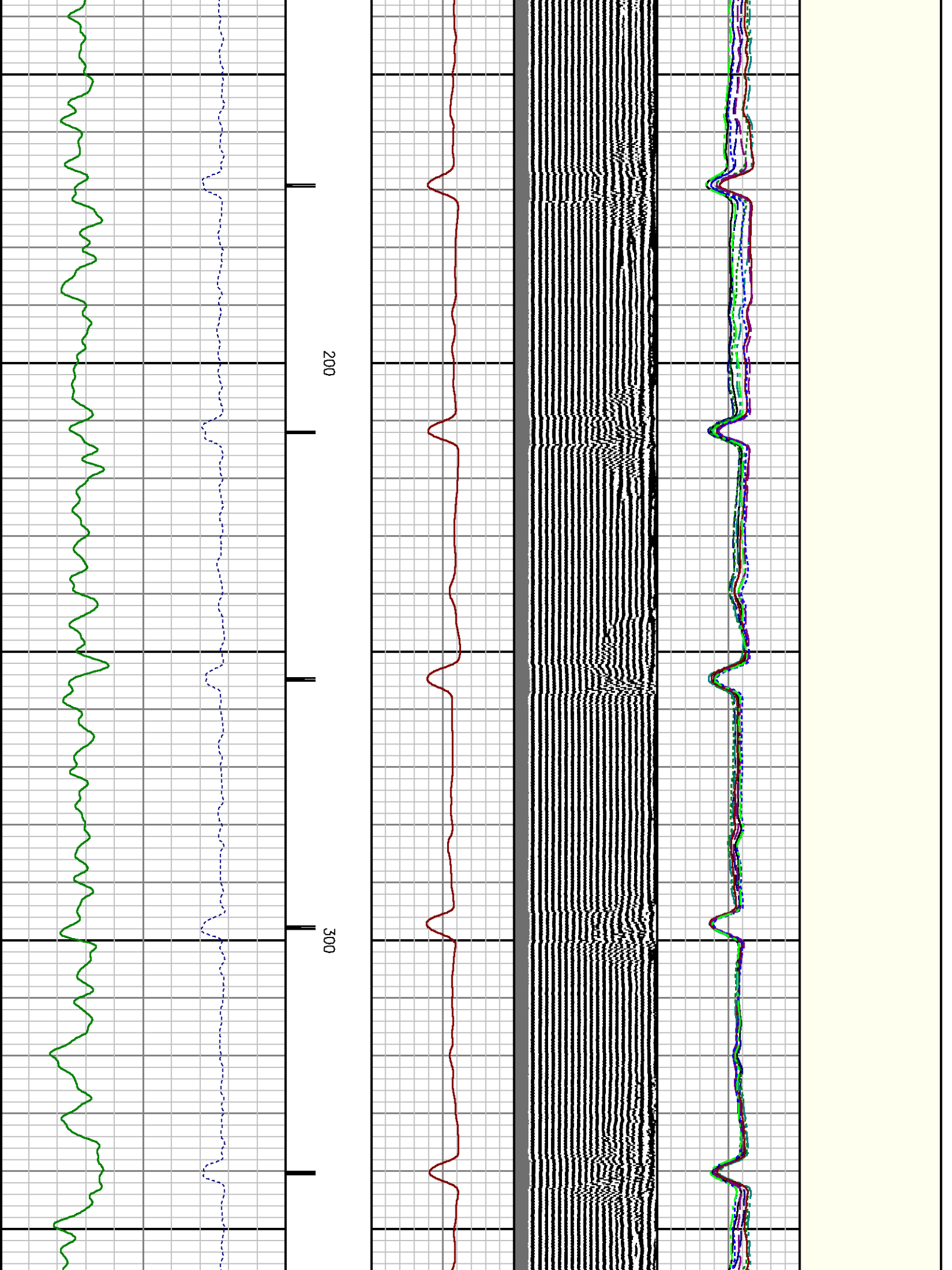
Plotted by : PlotMgr, v5.4.504

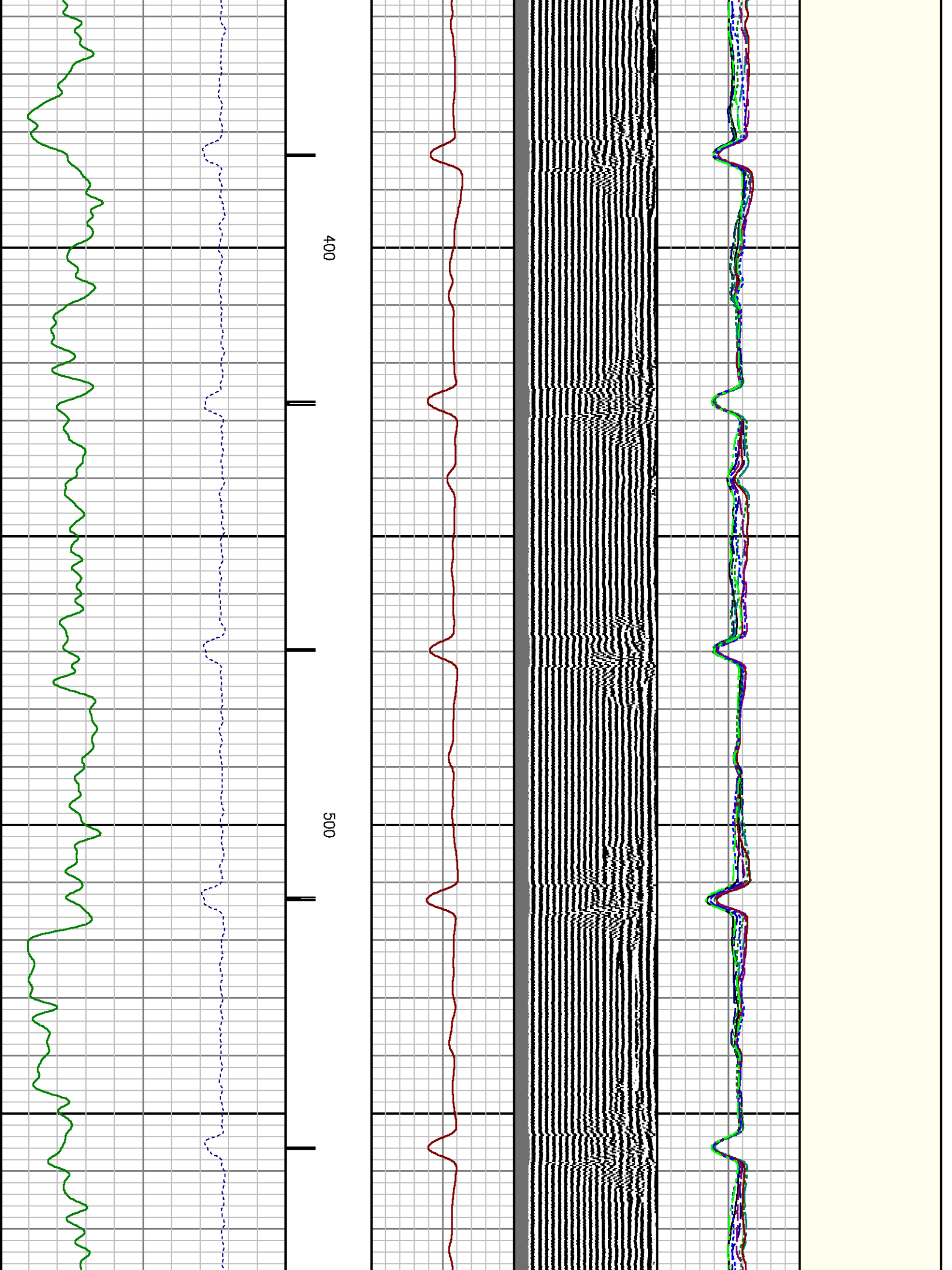
Company : WPX ENERGY

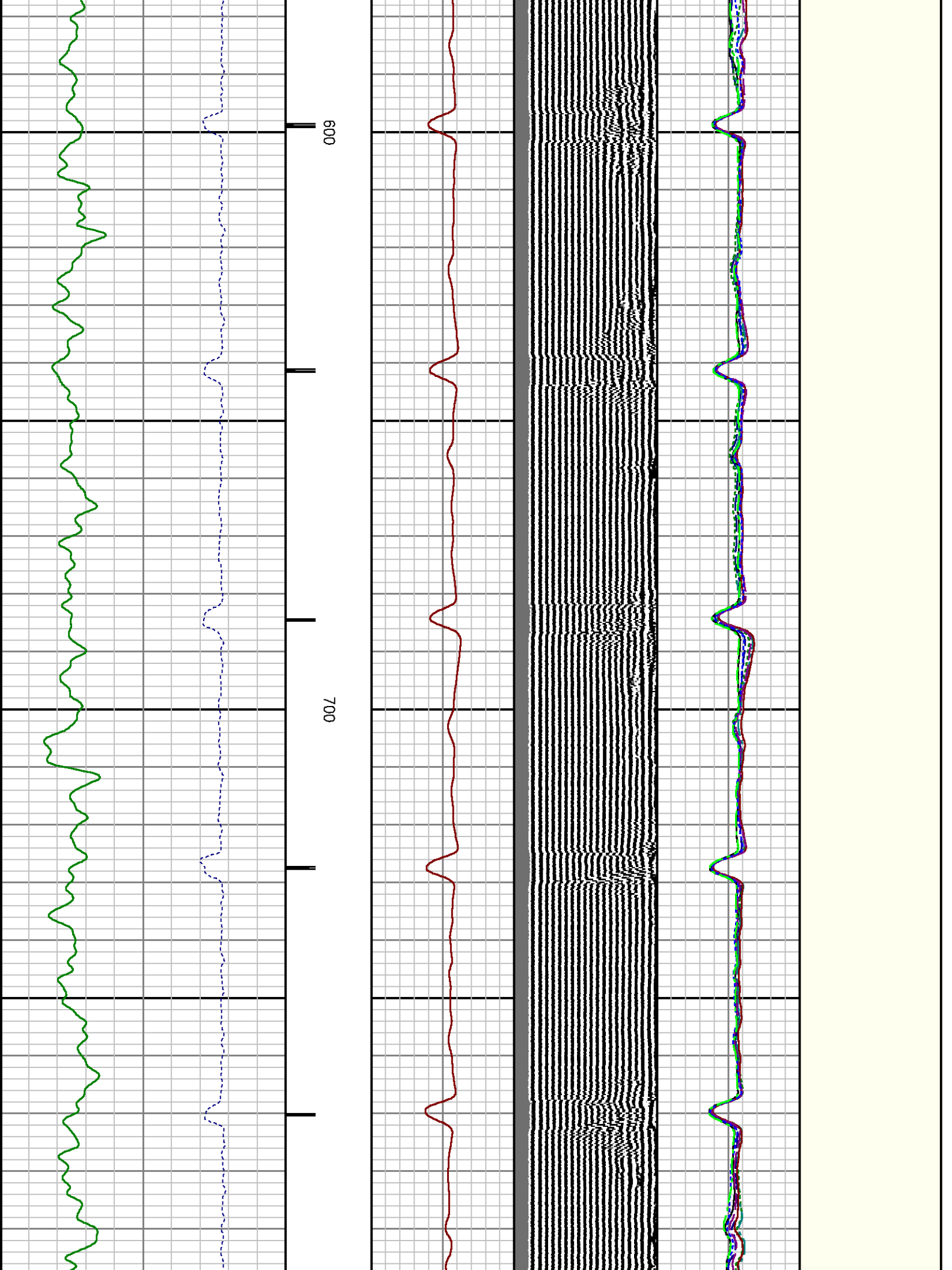
Well : STRAIT SG 31-22

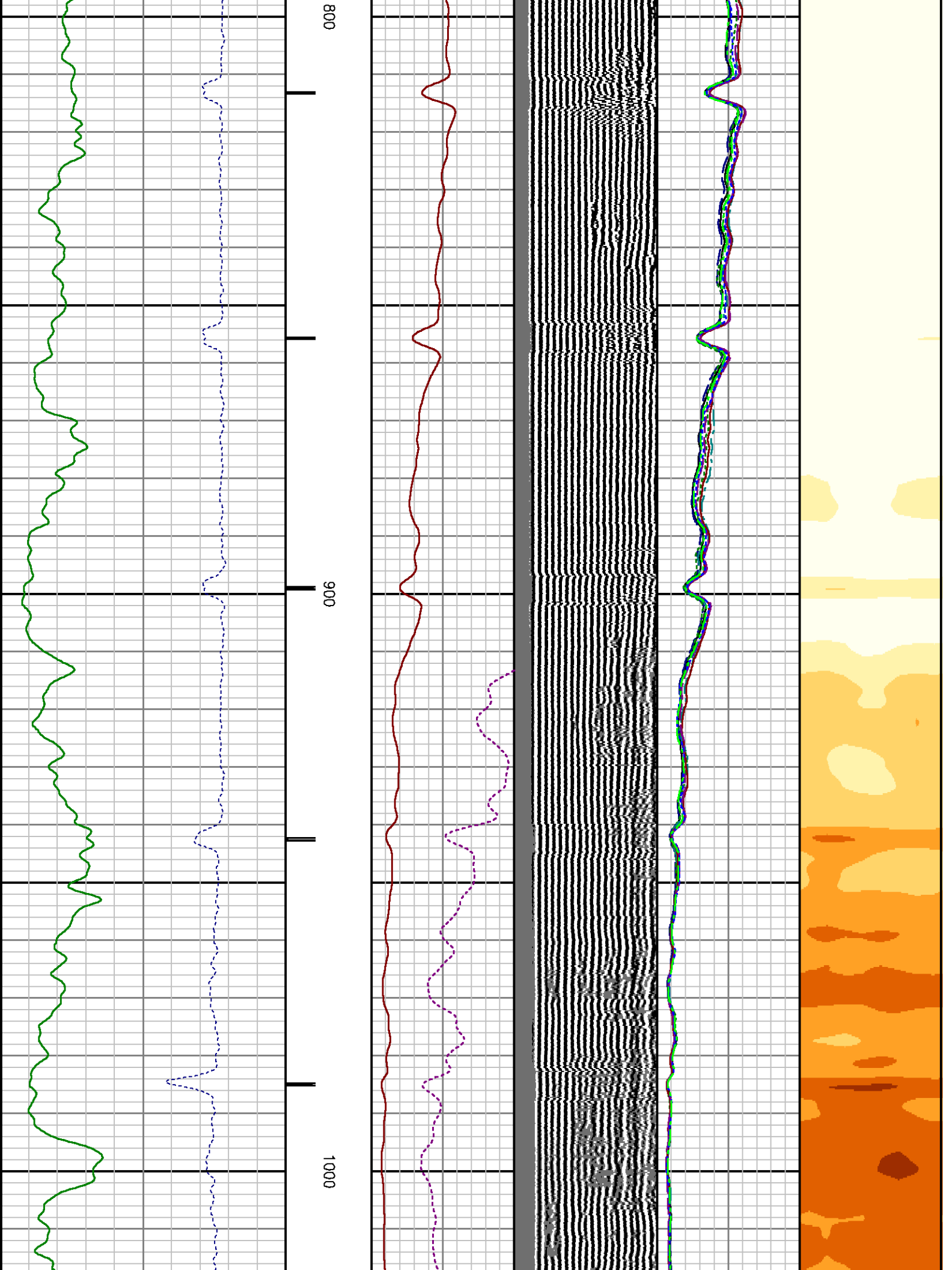
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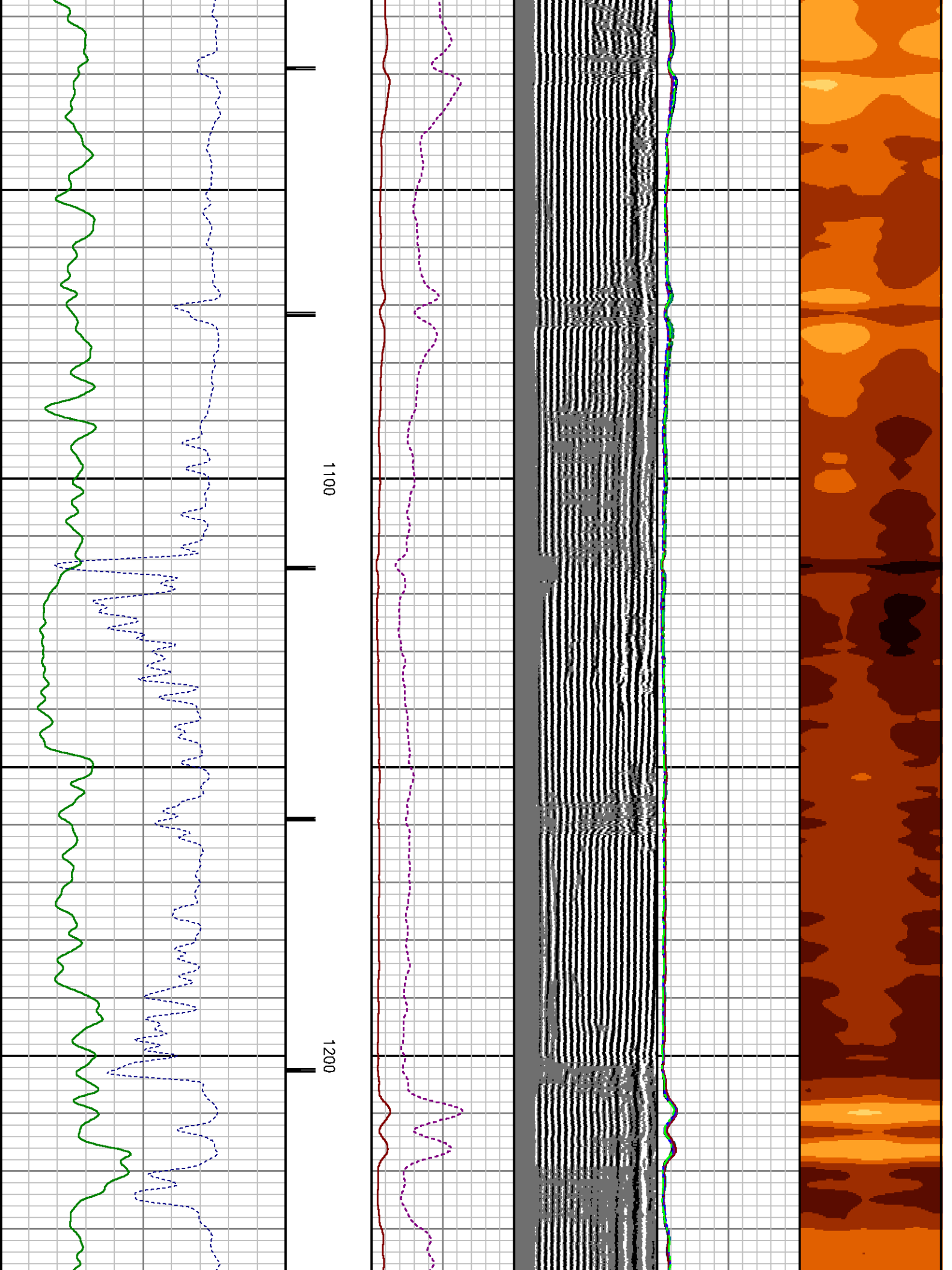


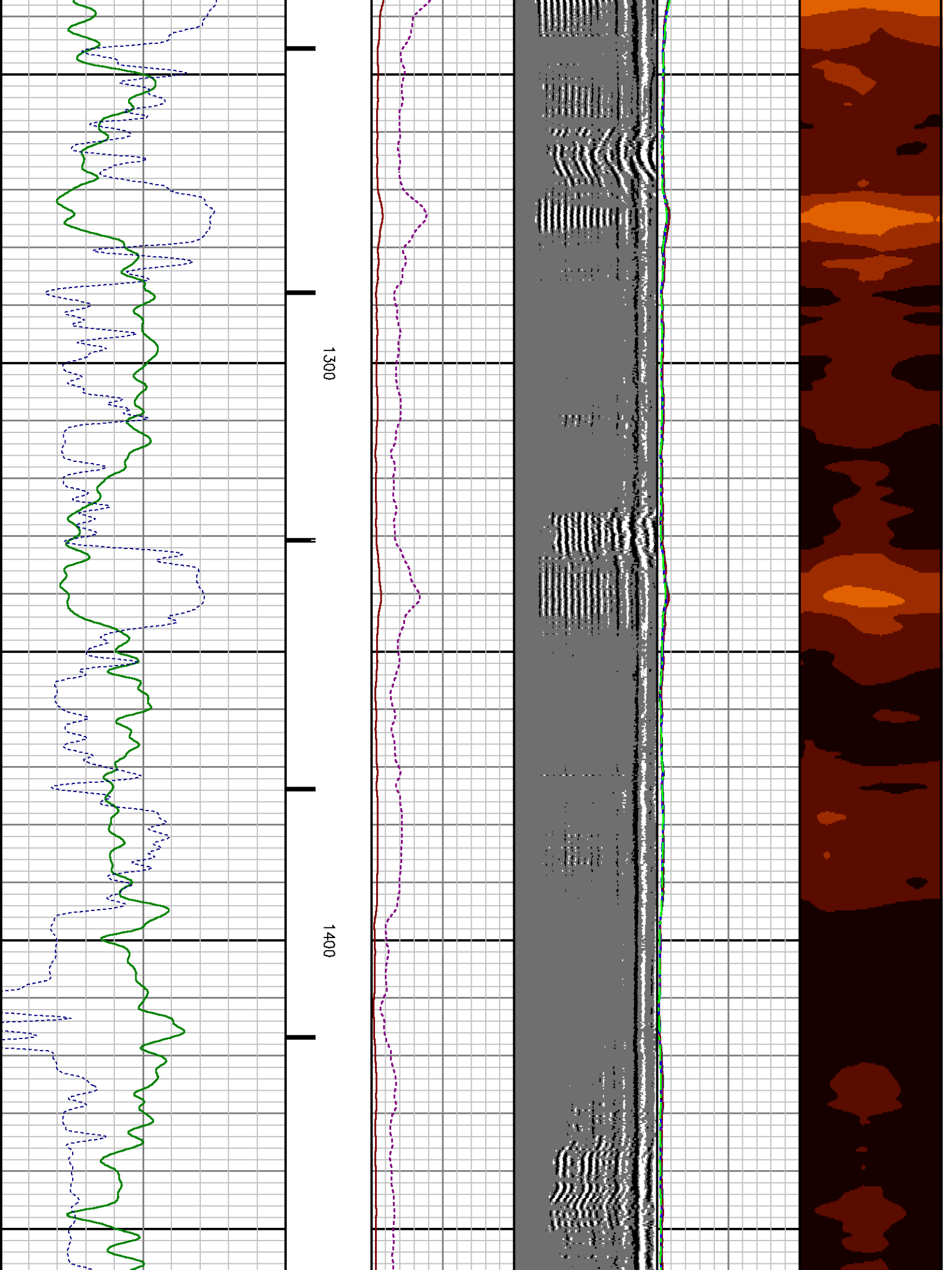


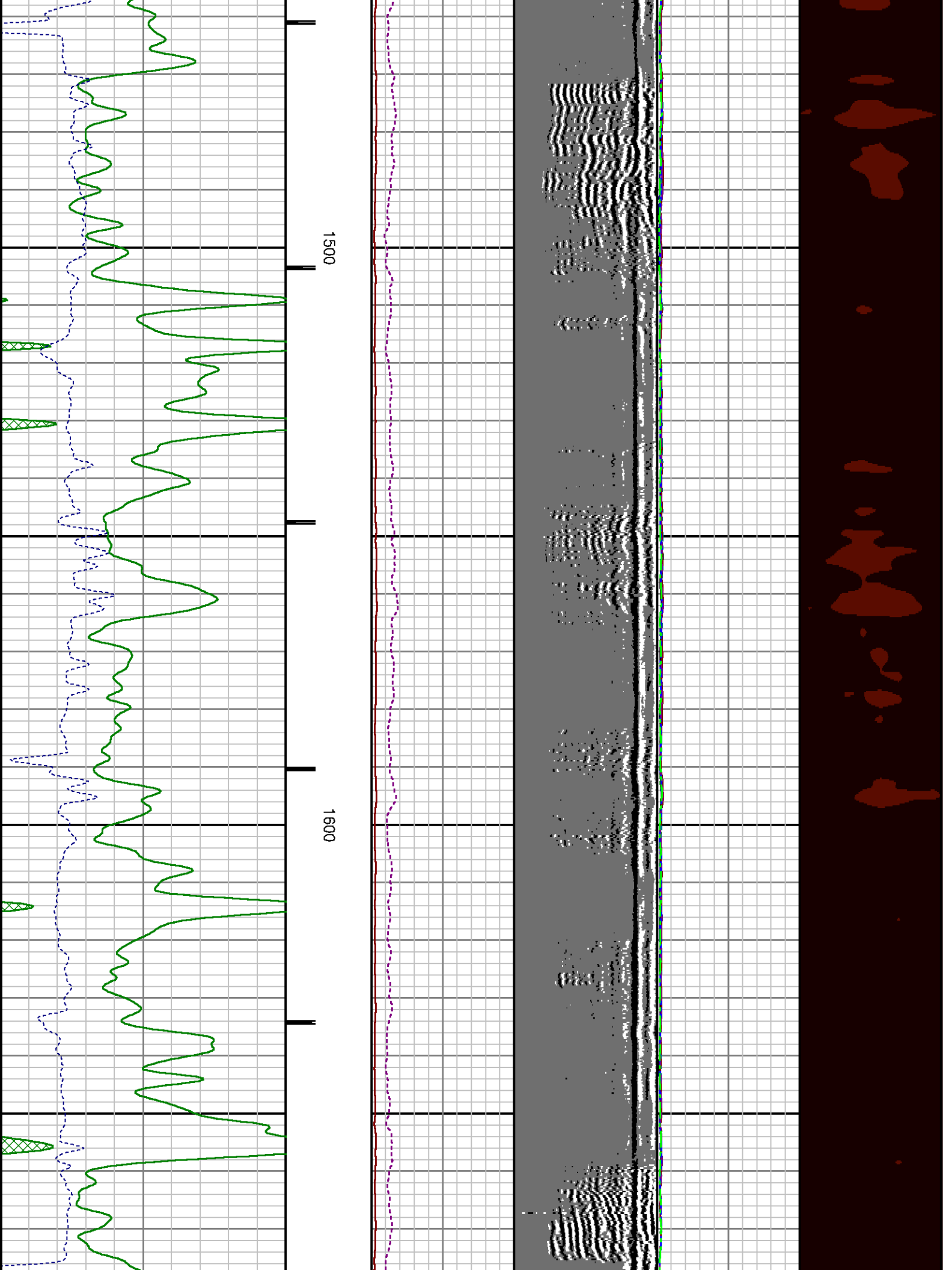


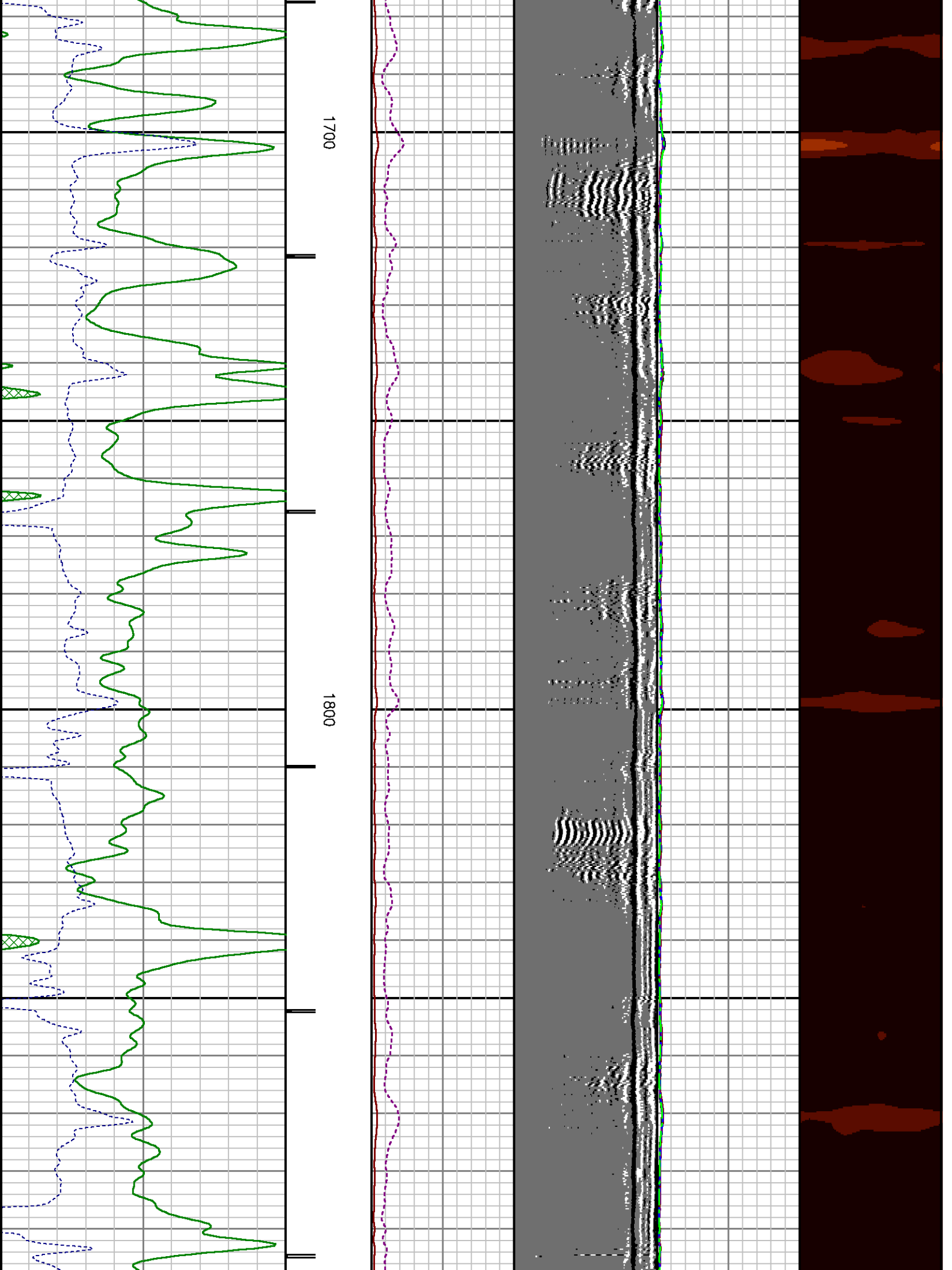


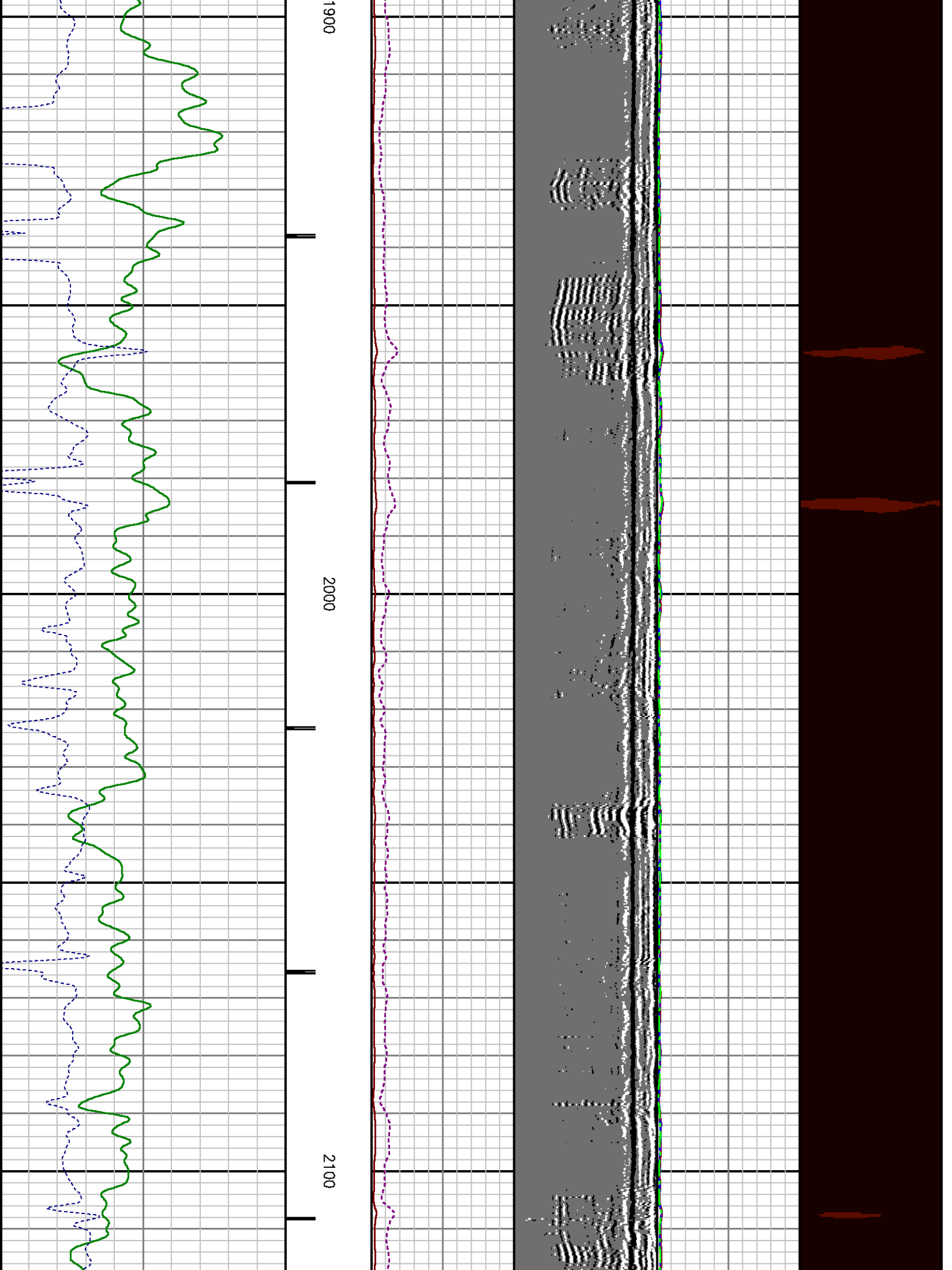


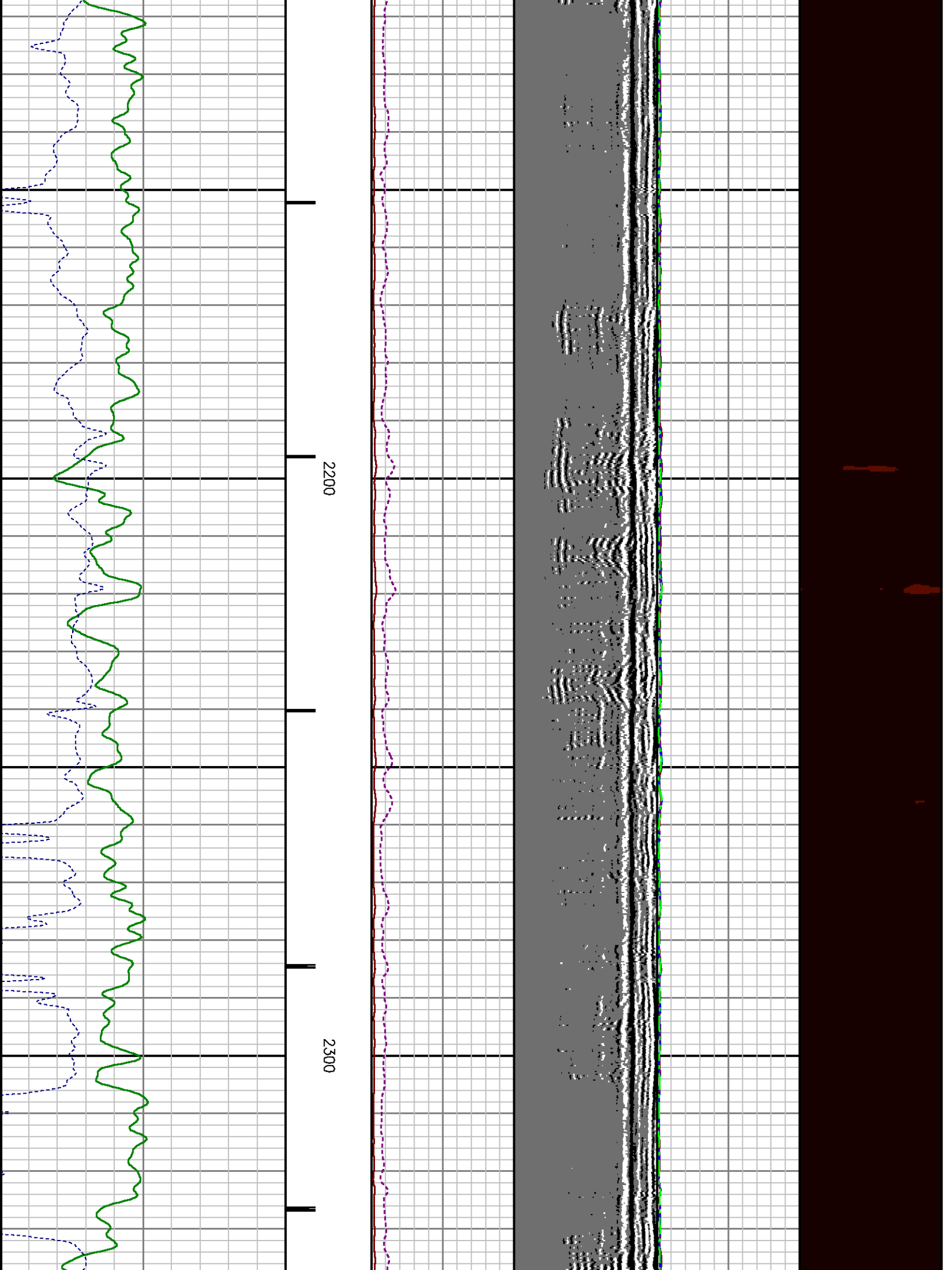


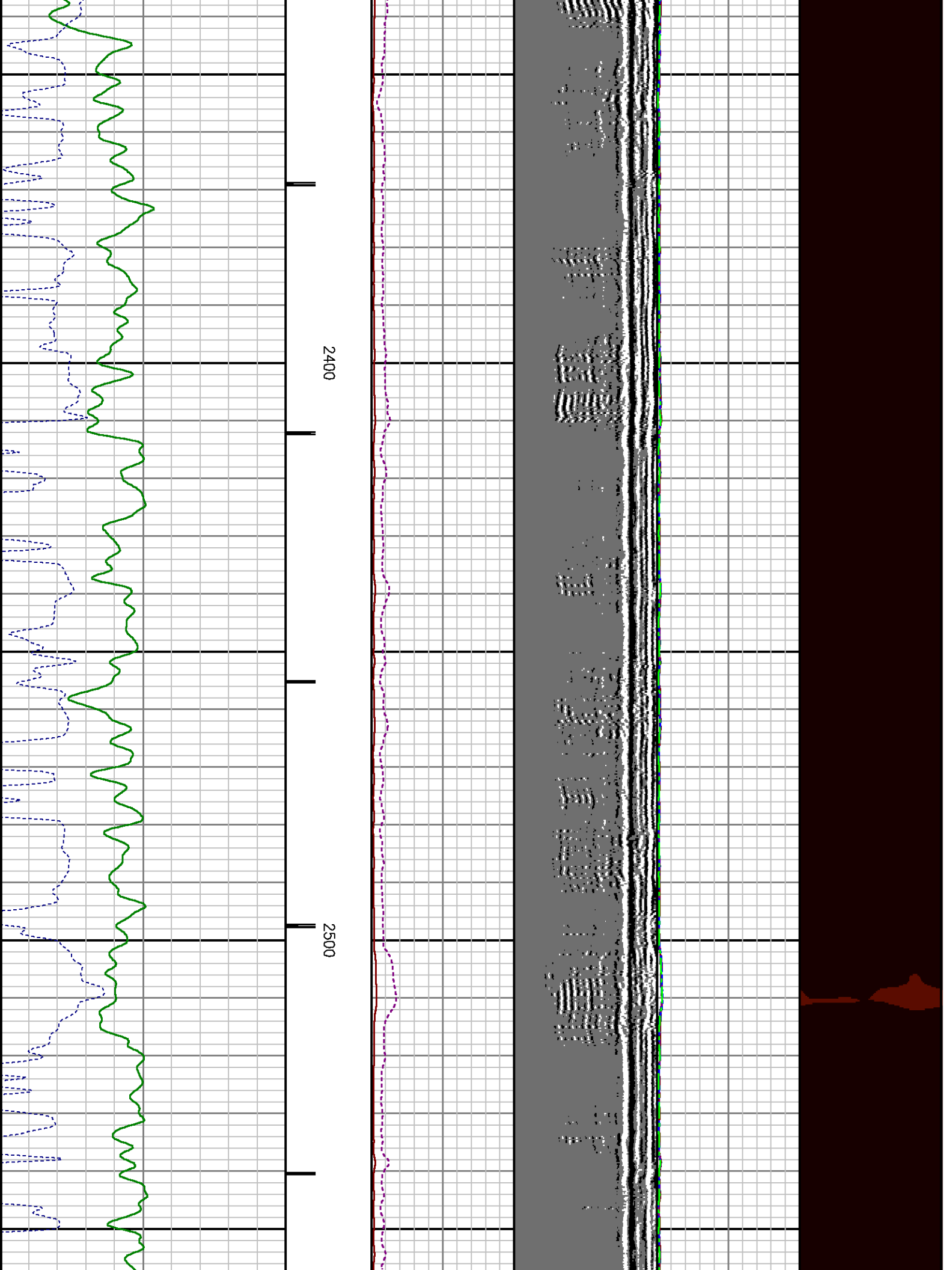


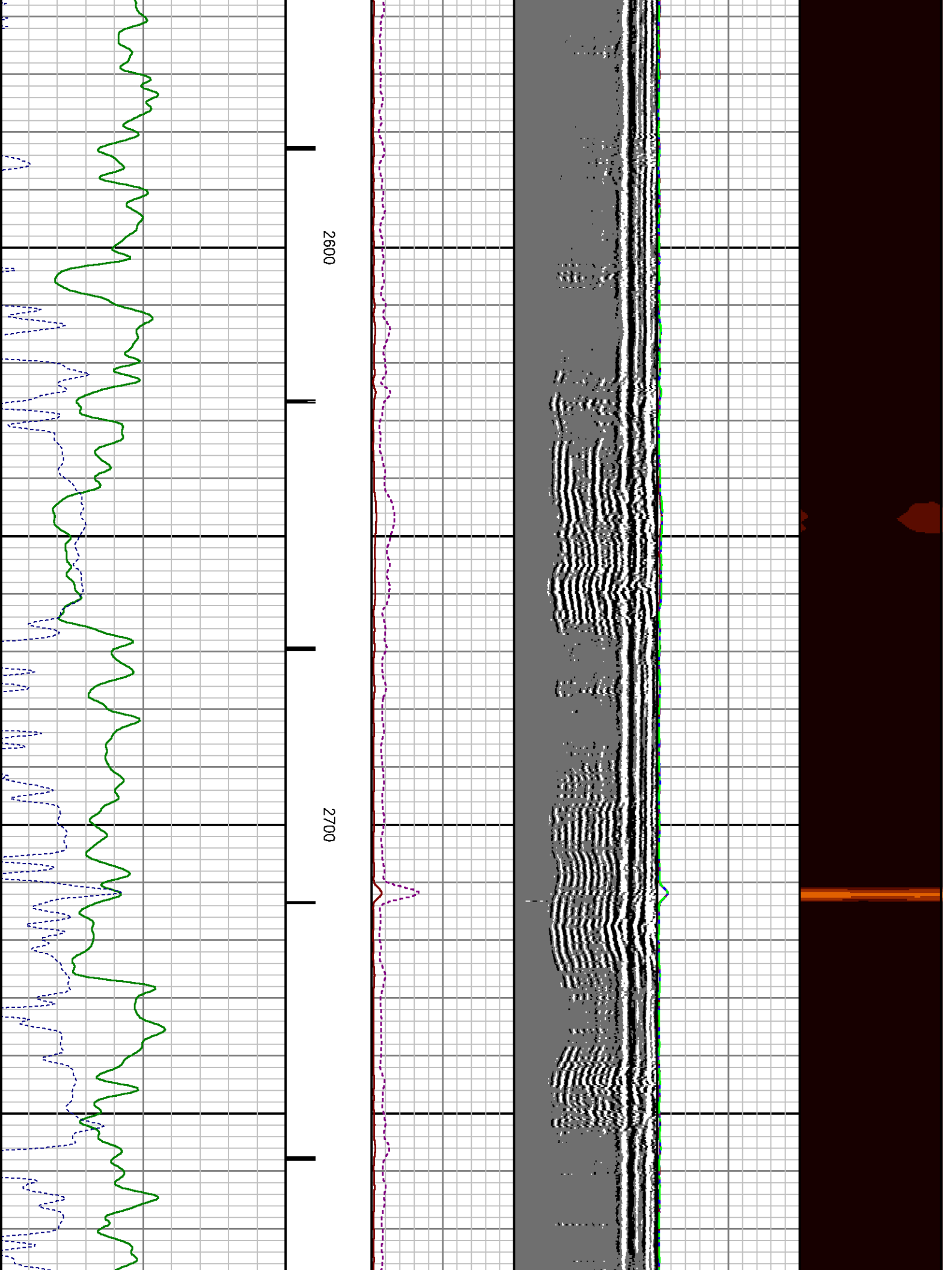


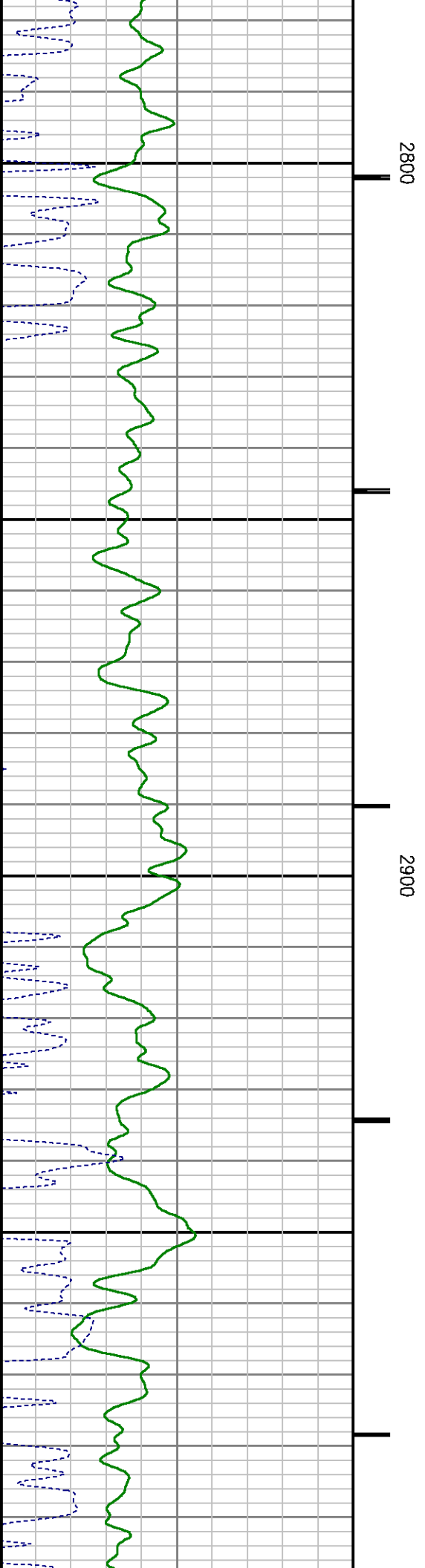
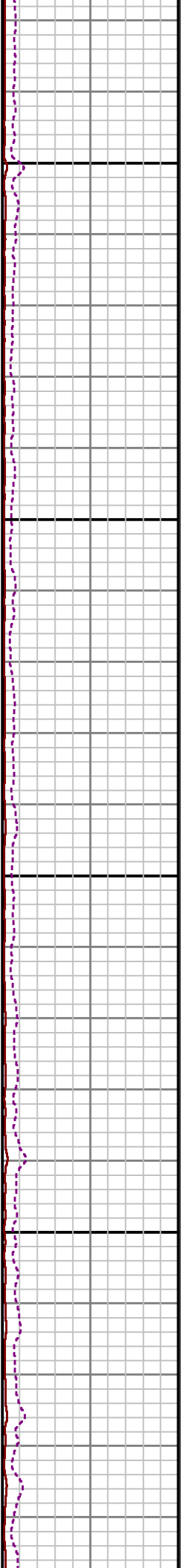
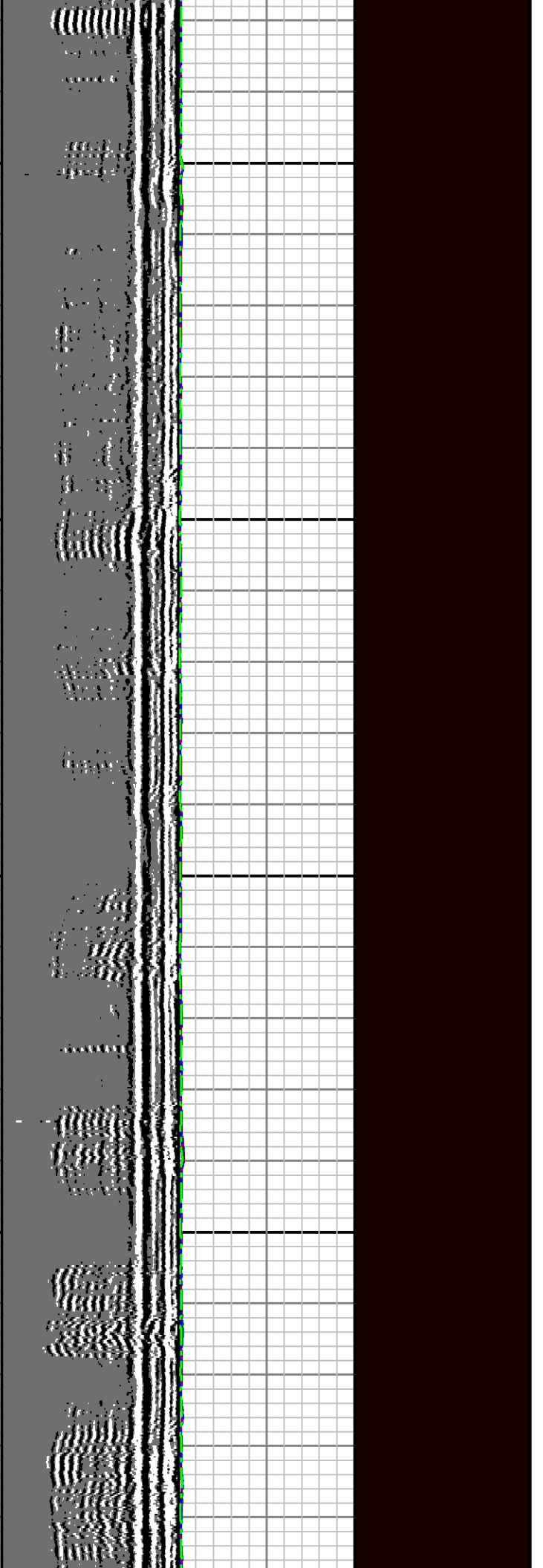


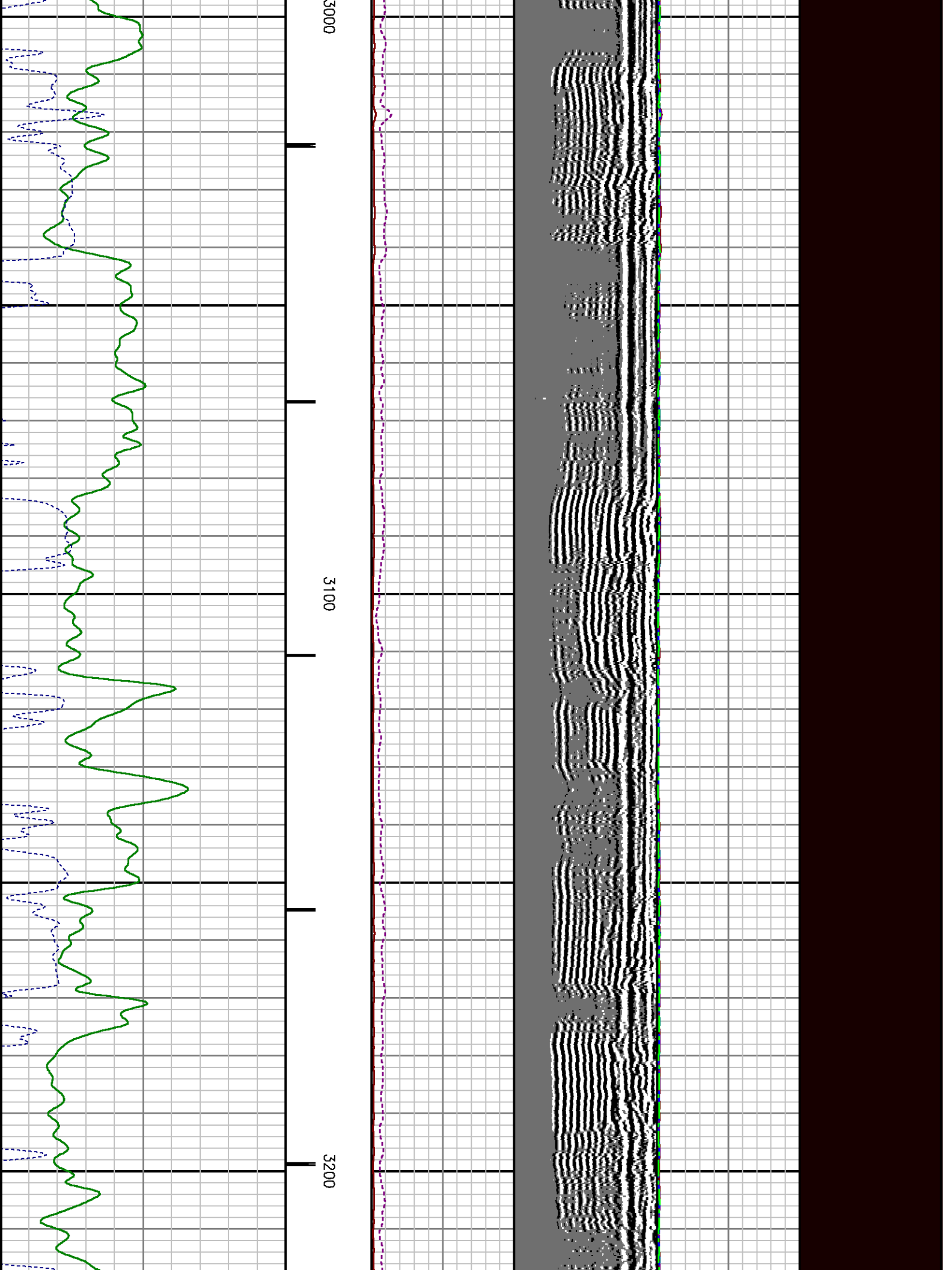


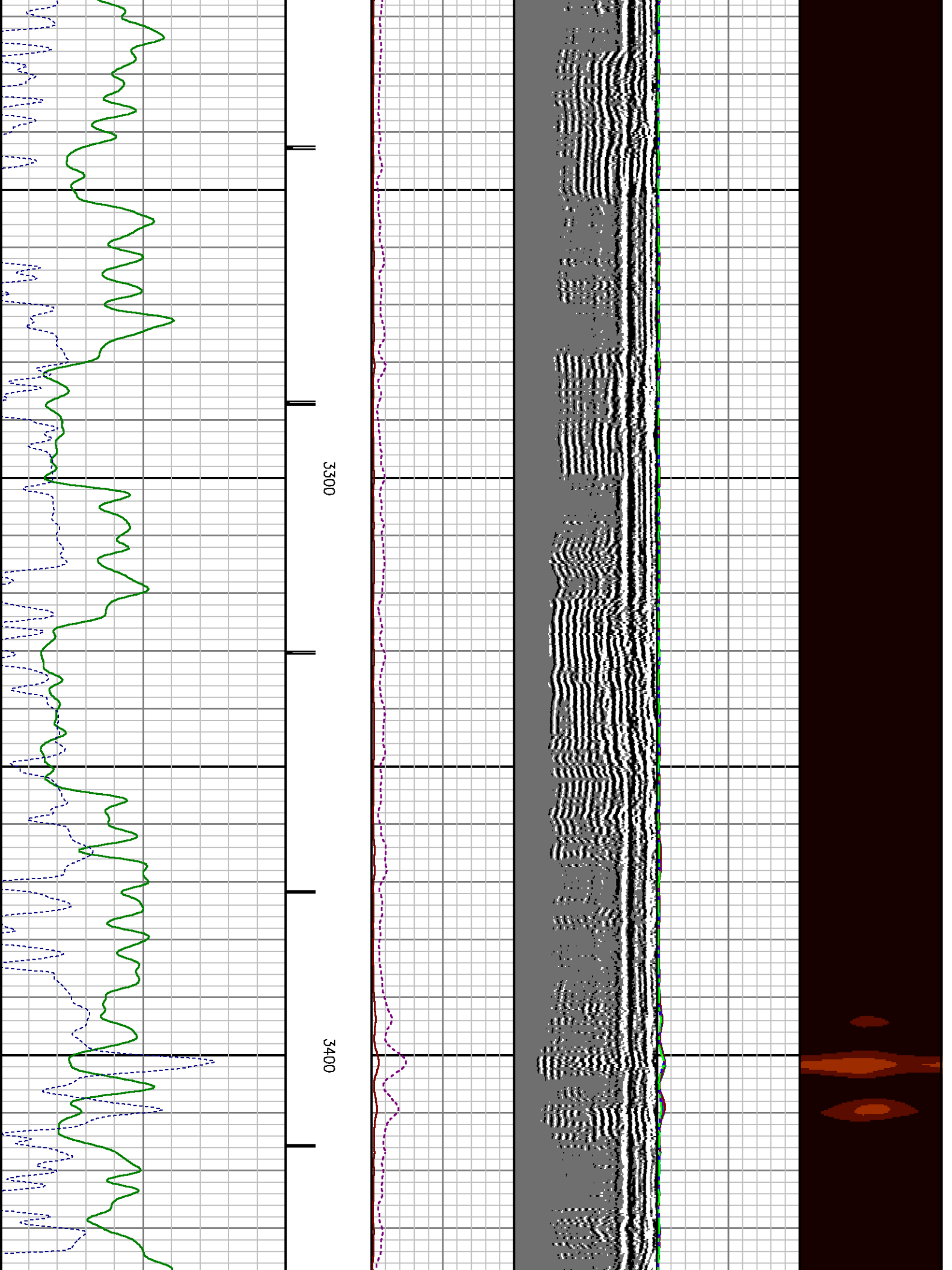


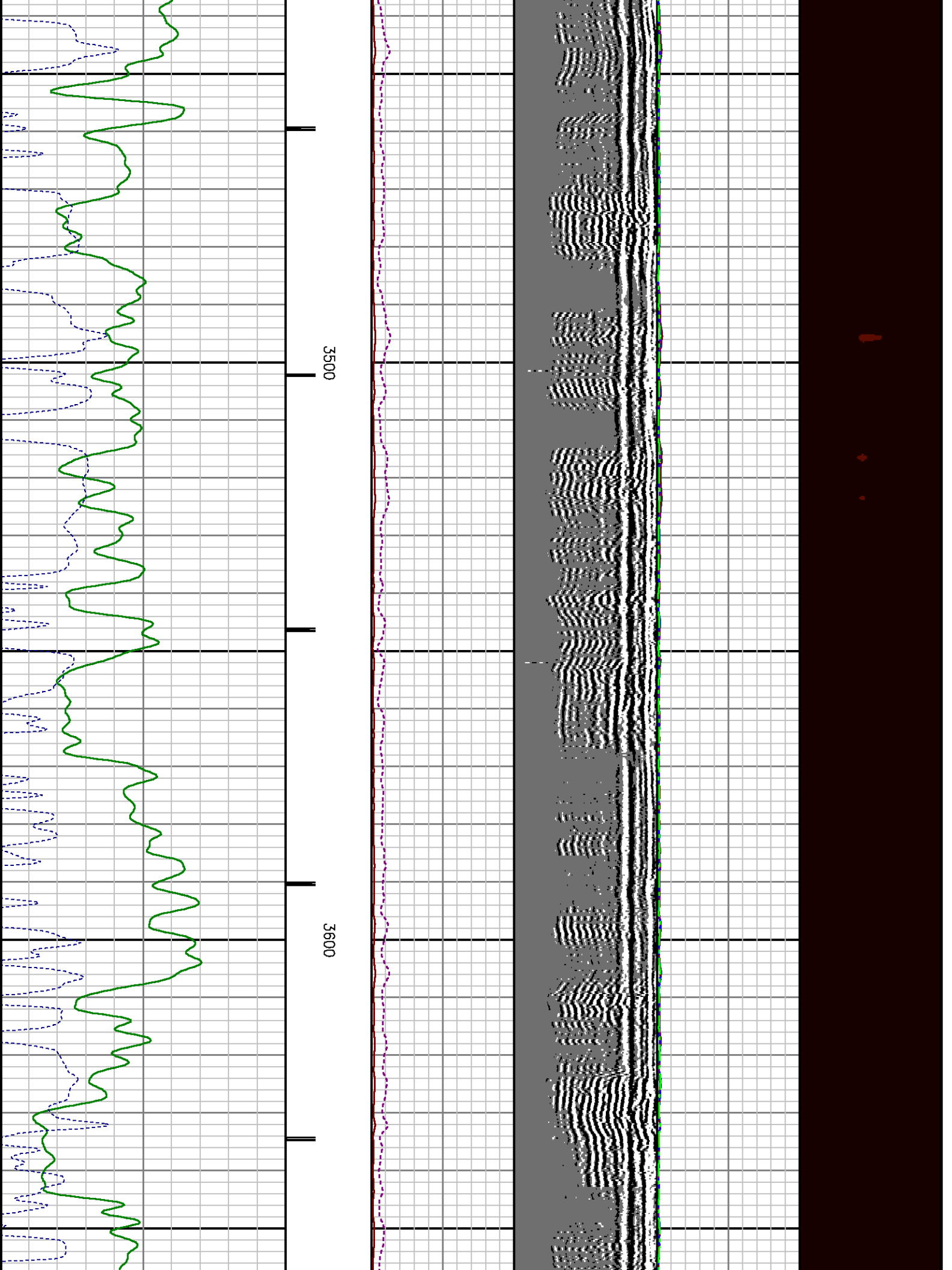


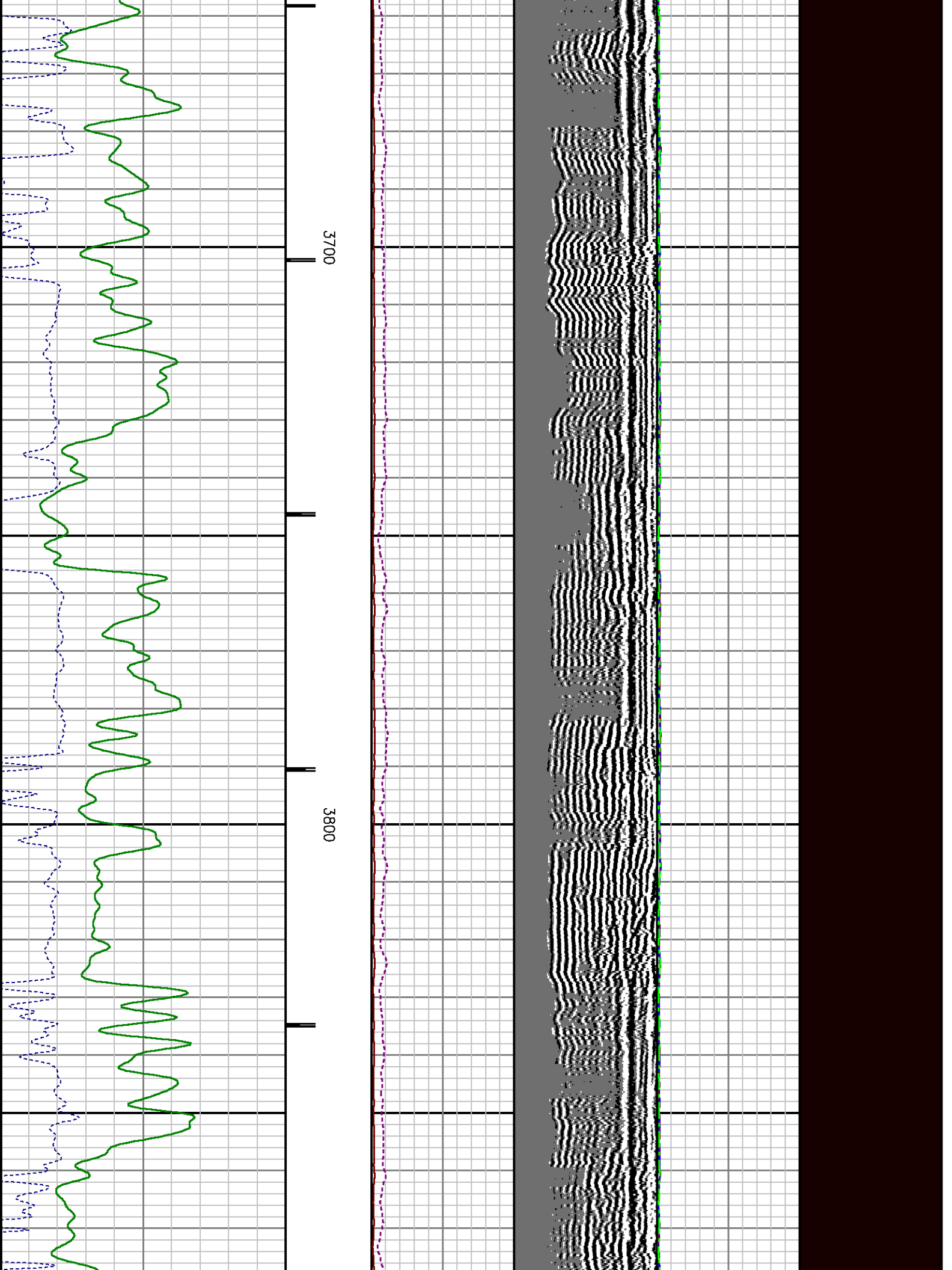


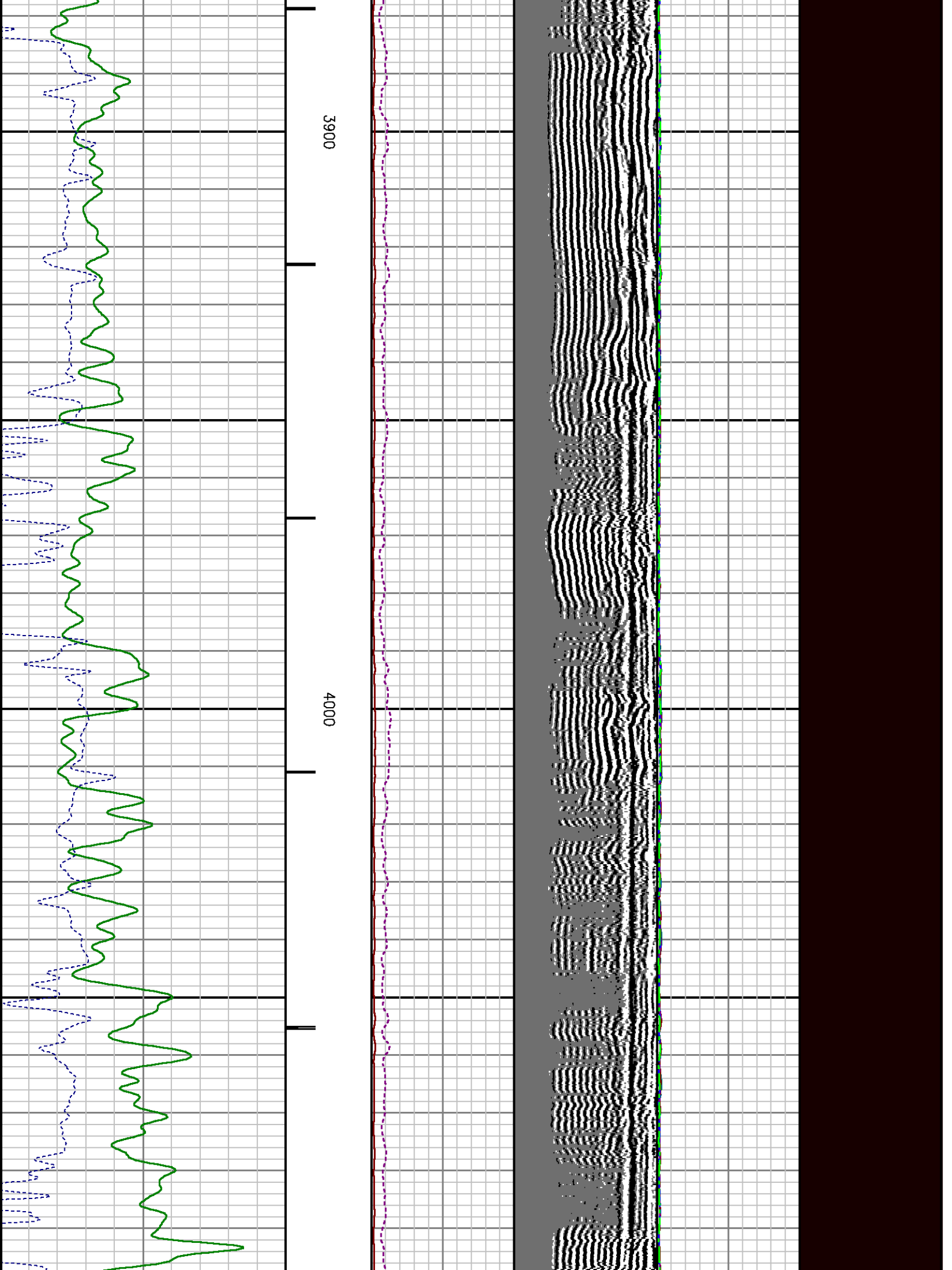


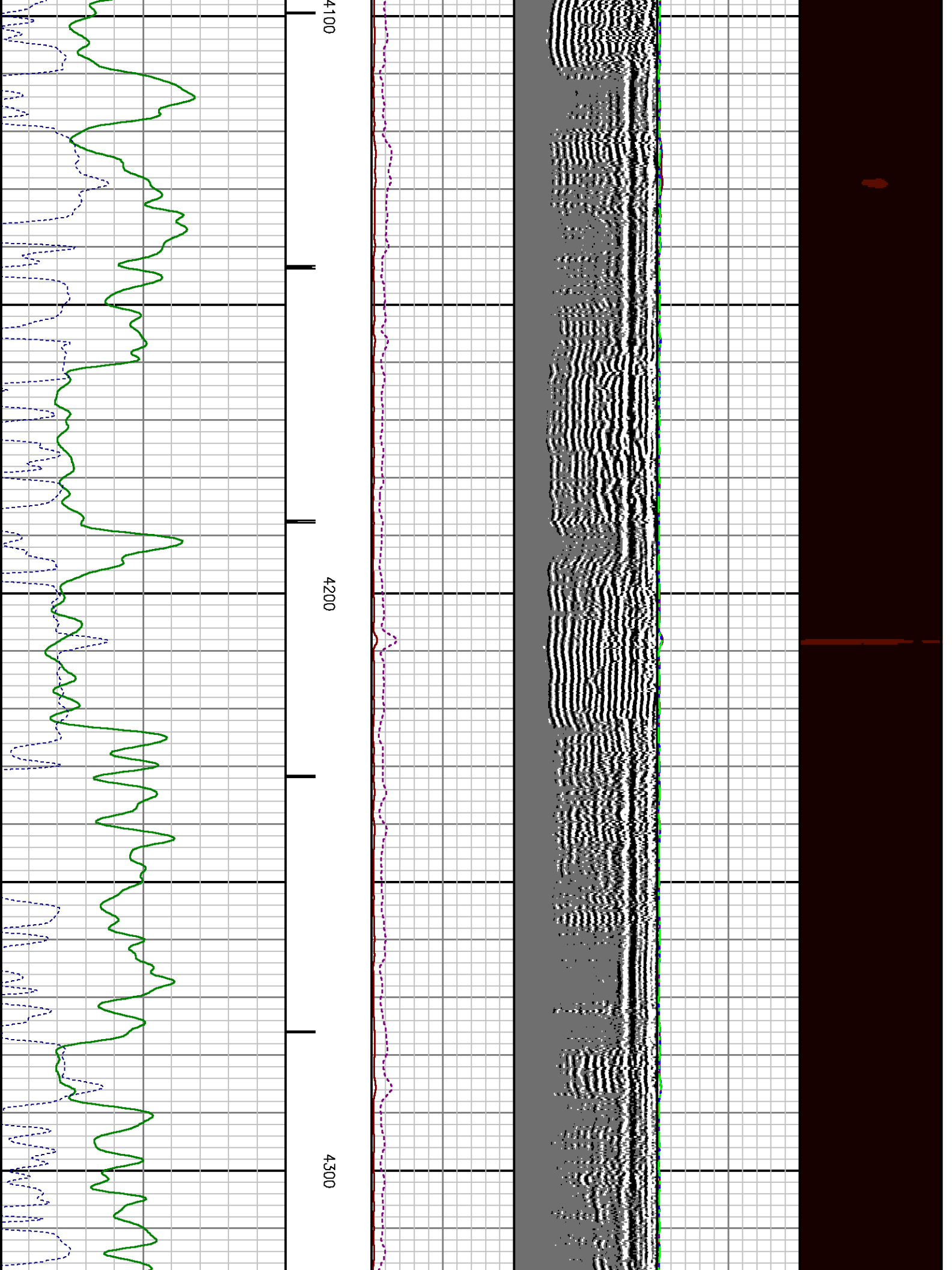


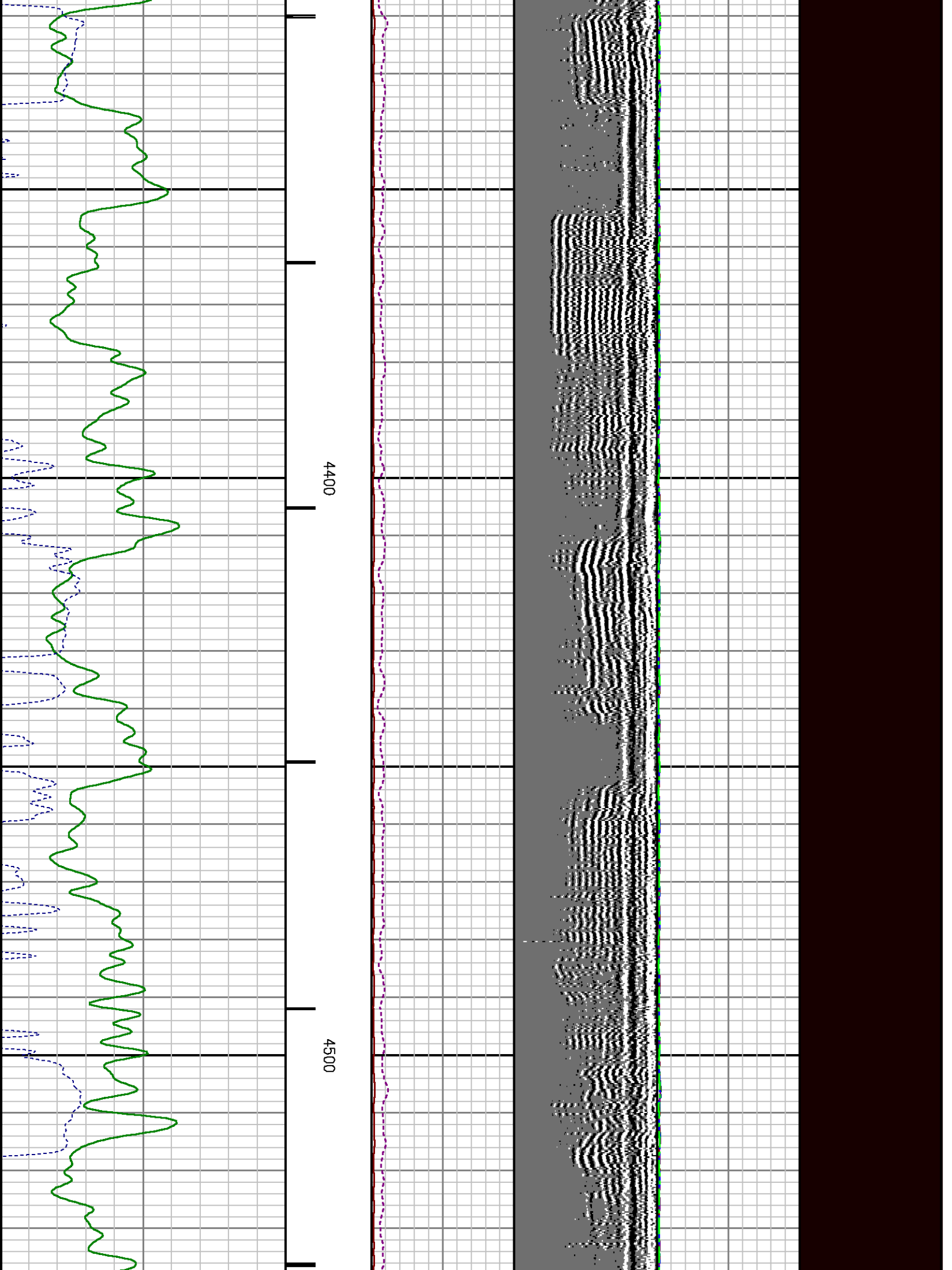


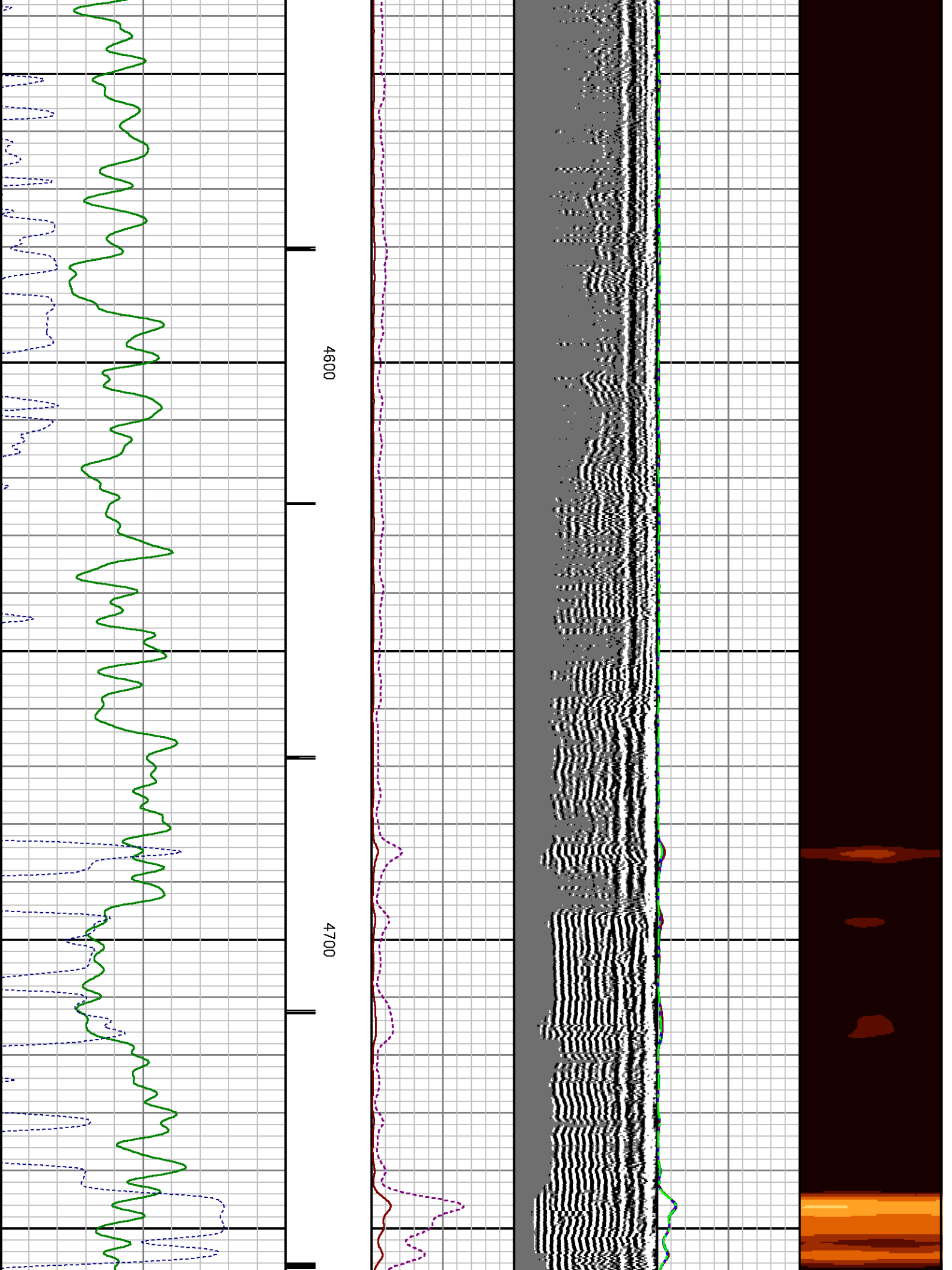


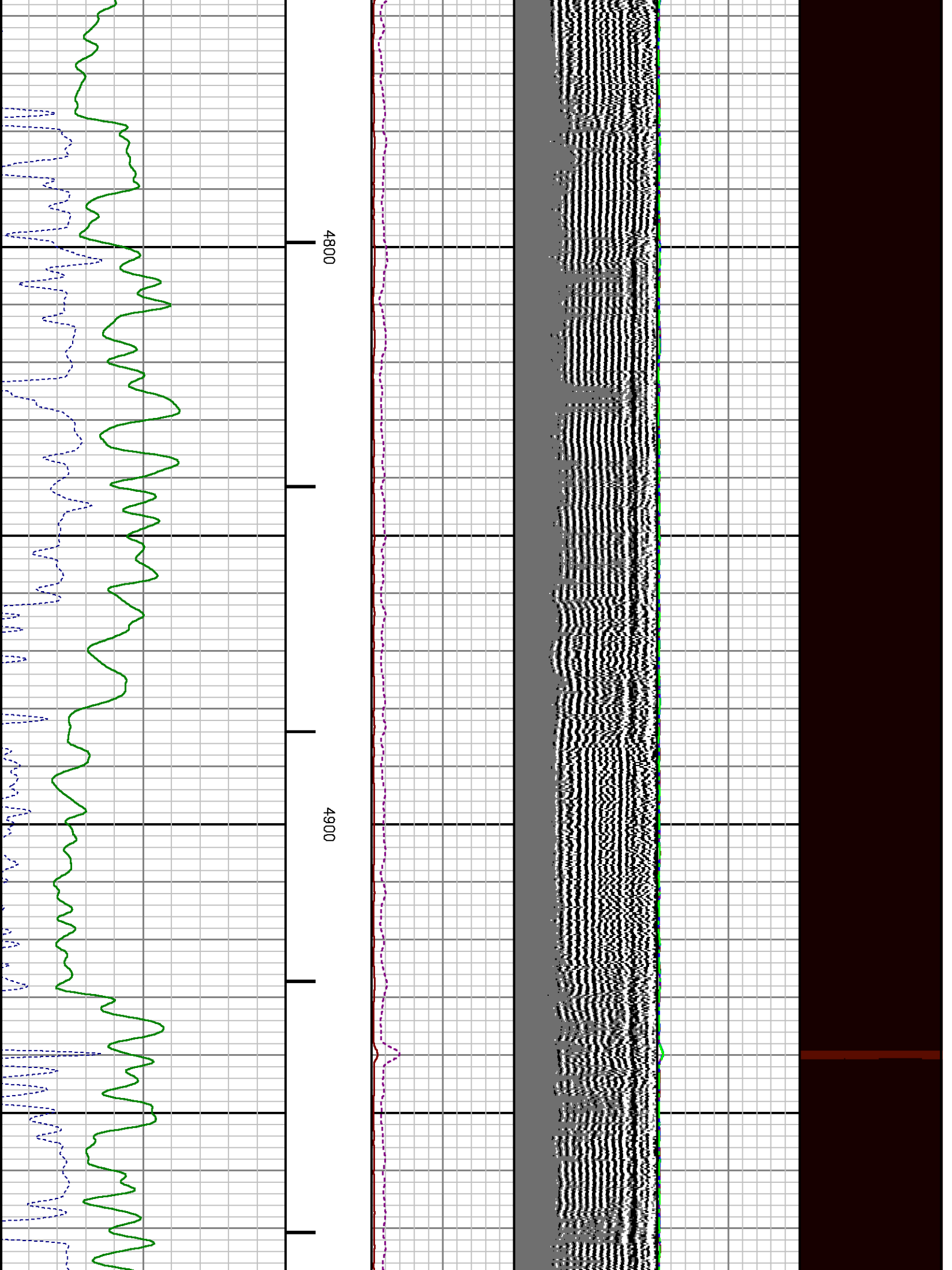


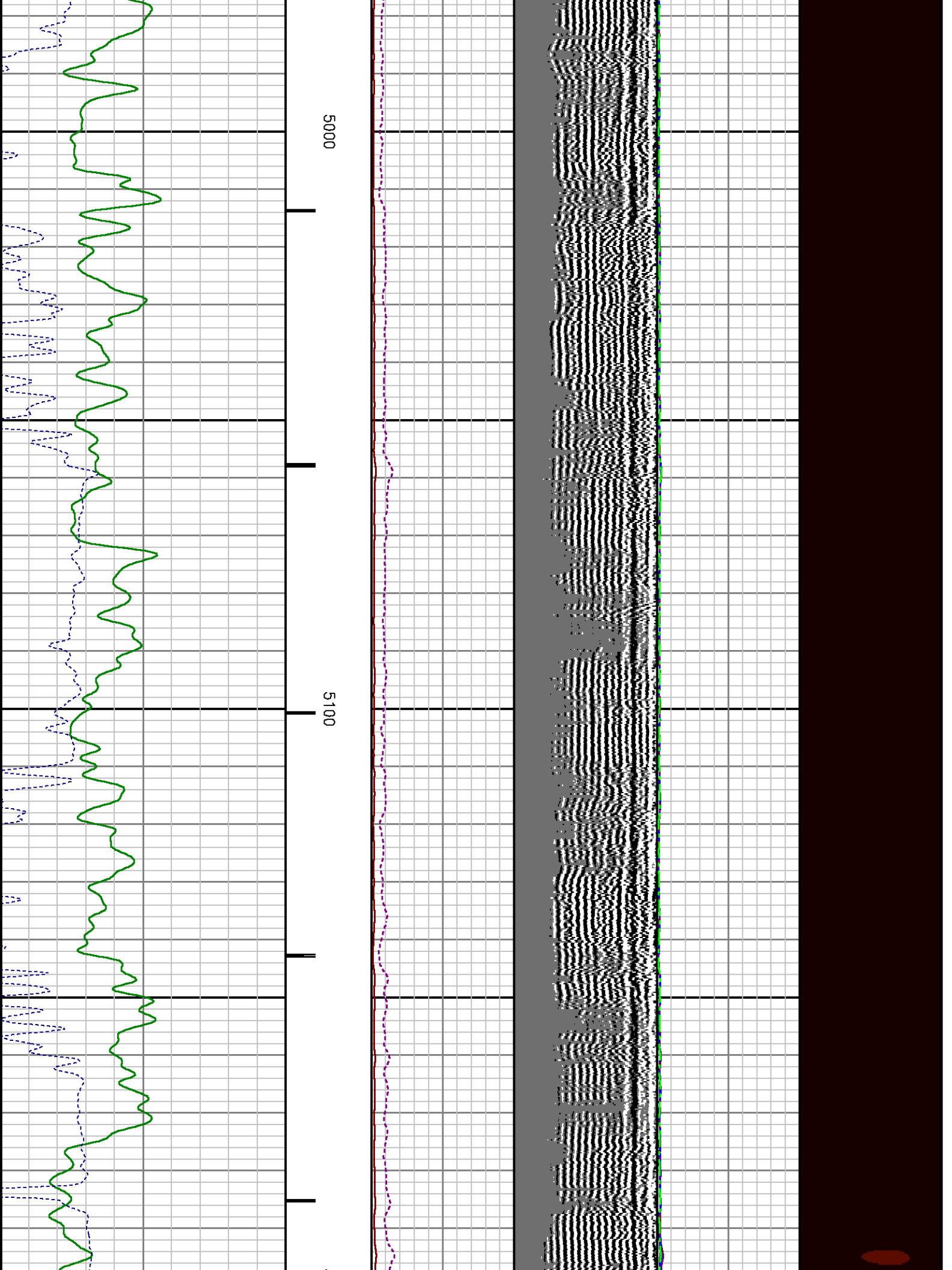


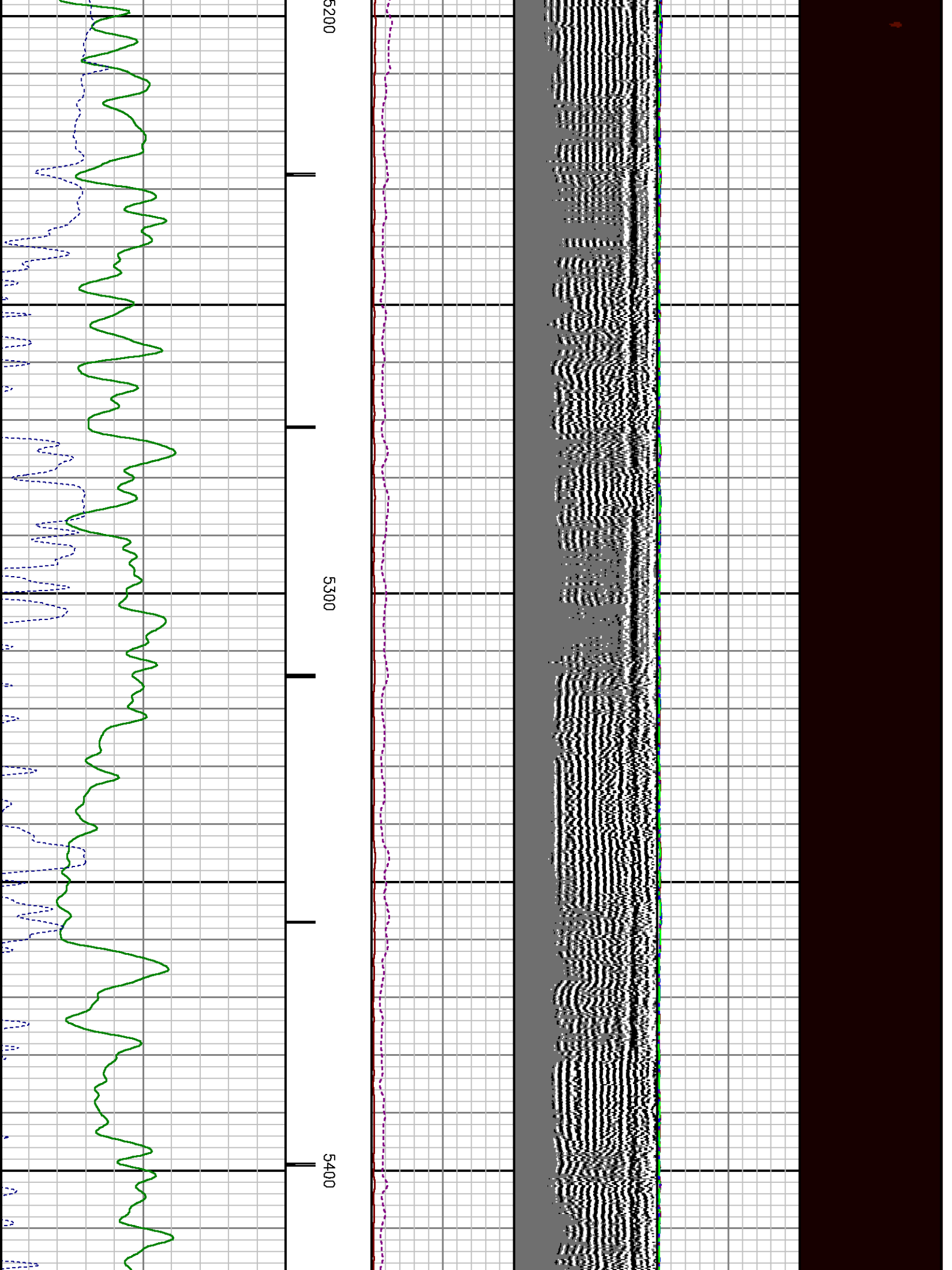


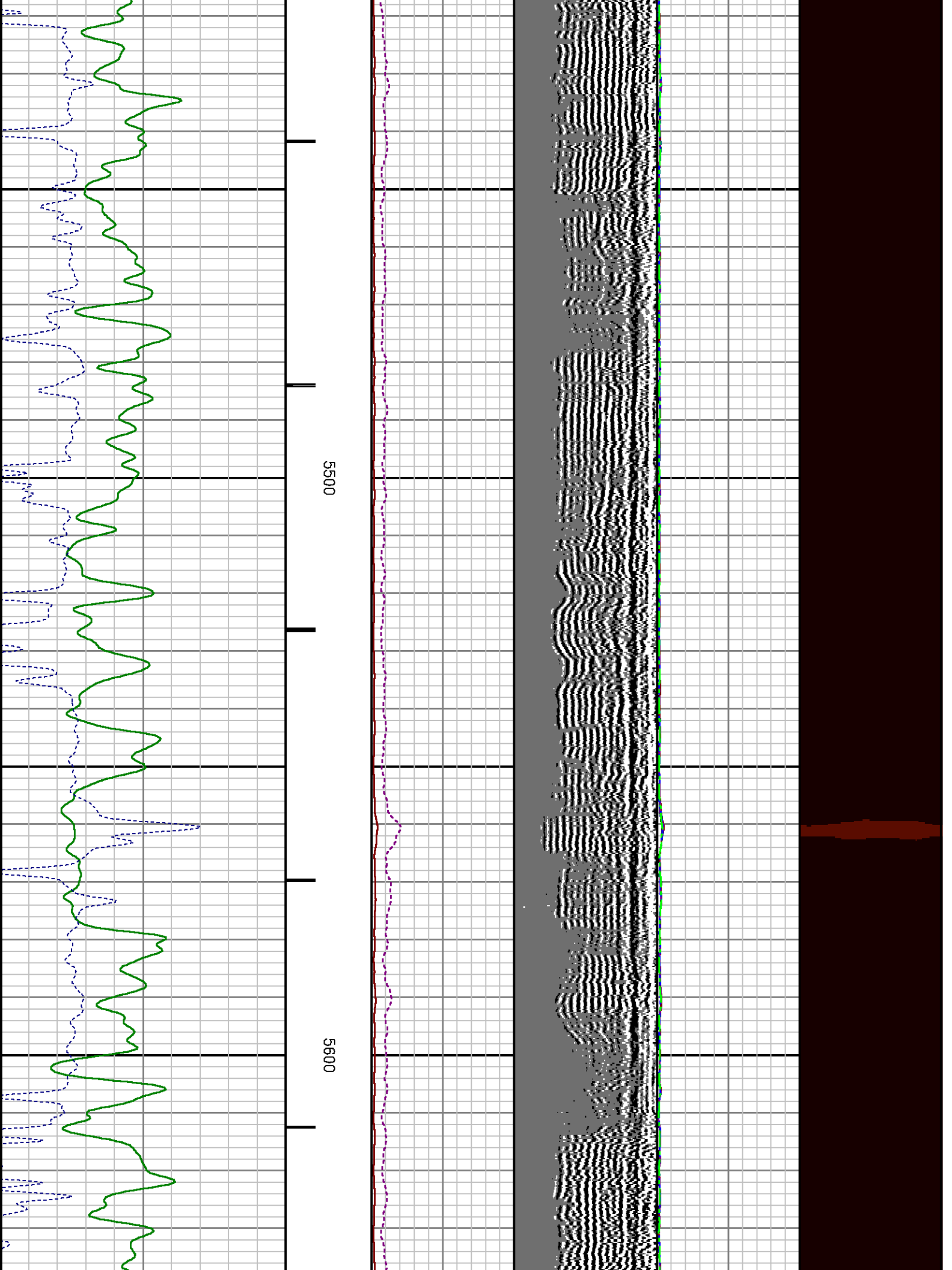


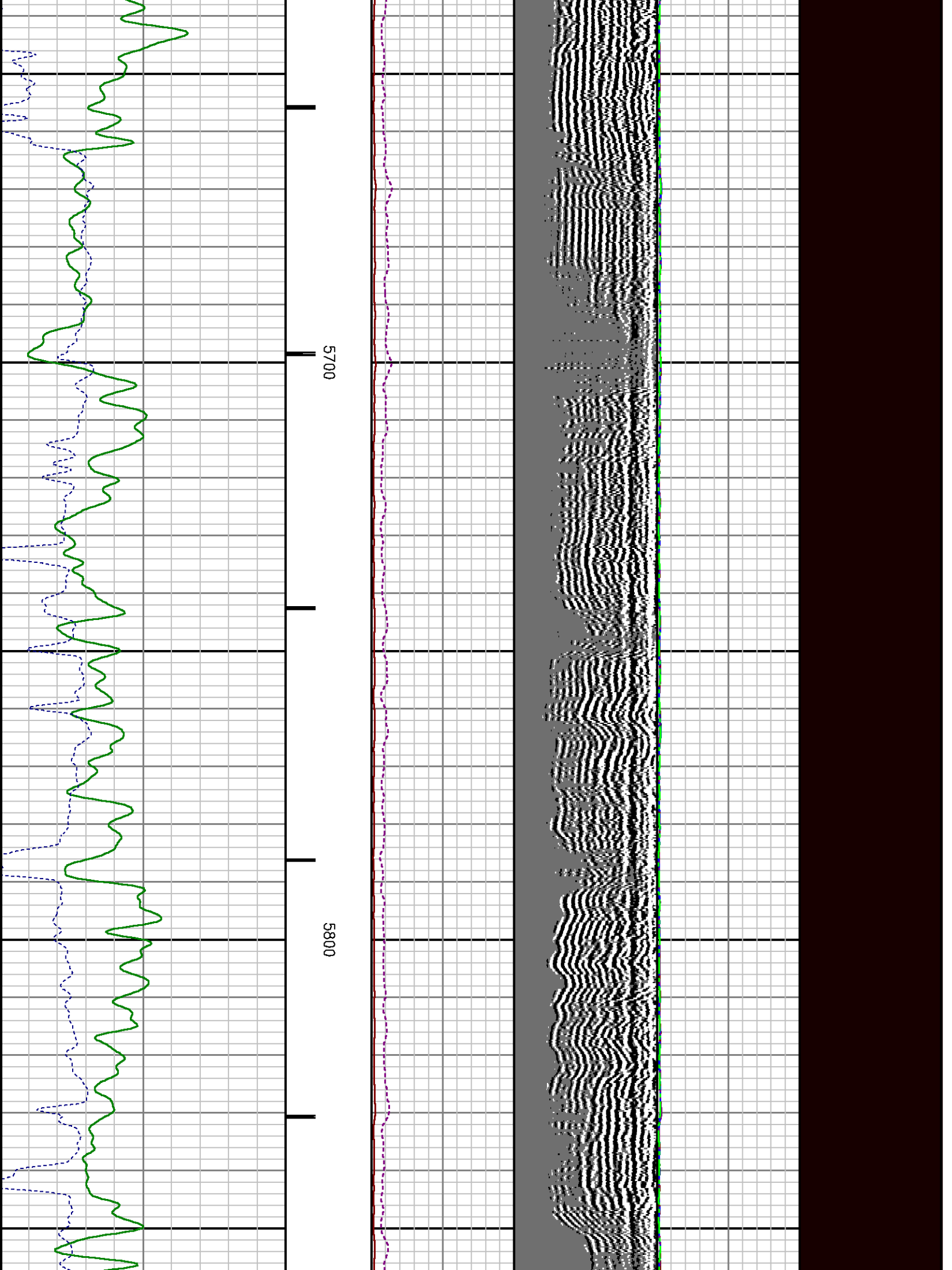


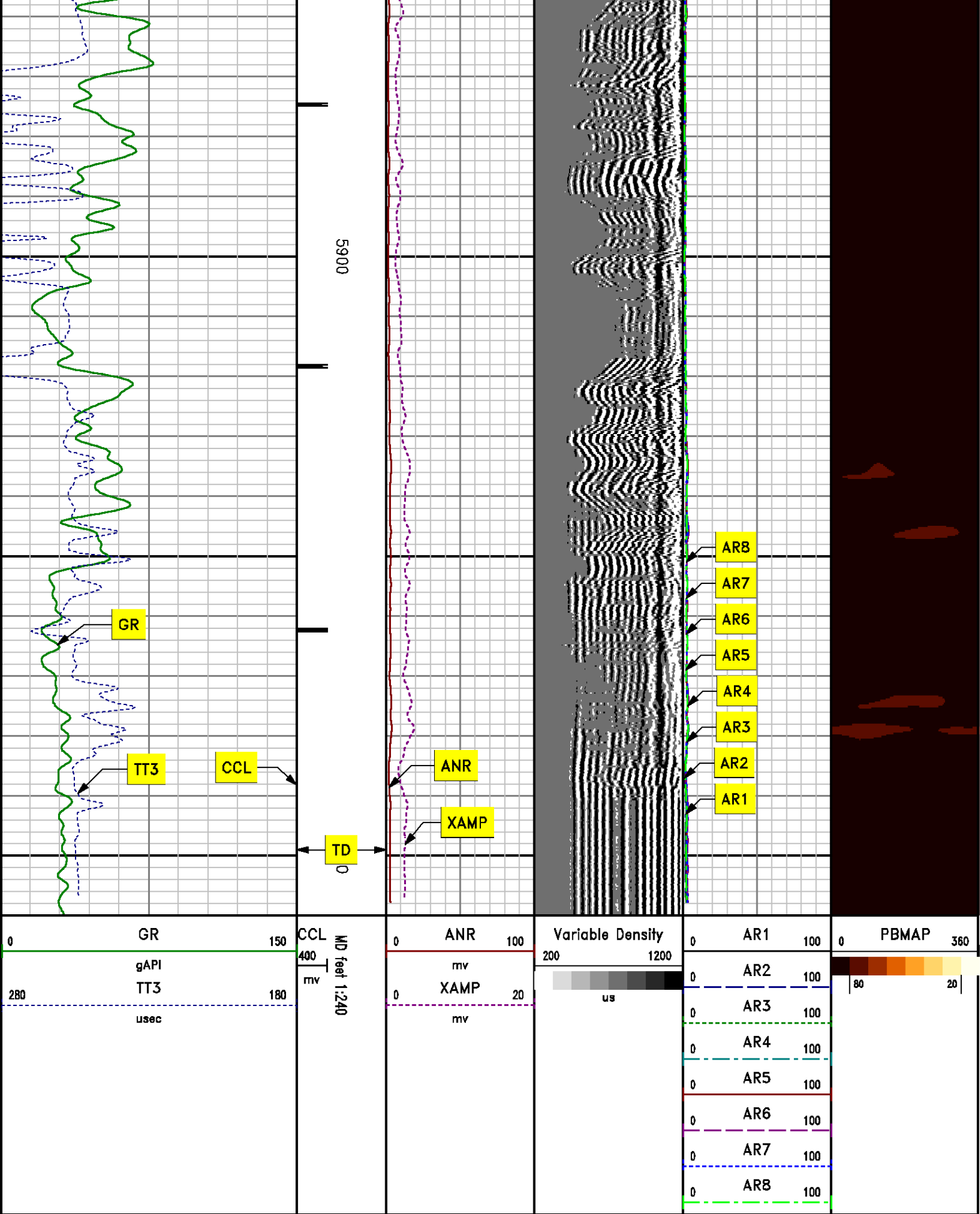












REPEAT PASS

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	309.409	usec	5709.968	6020.000
RAL	Amp Gate Start Near	200.391	usec	5709.968	6020.000
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RAL	FB Thresh Near	4.000	mv	5709.968	6020.000
RAL	FB Thresh Radial	4.000	mv	5709.968	6020.000
RAL	Fluid Travel Time	200.000	usec/ft	5709.968	6019.875

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

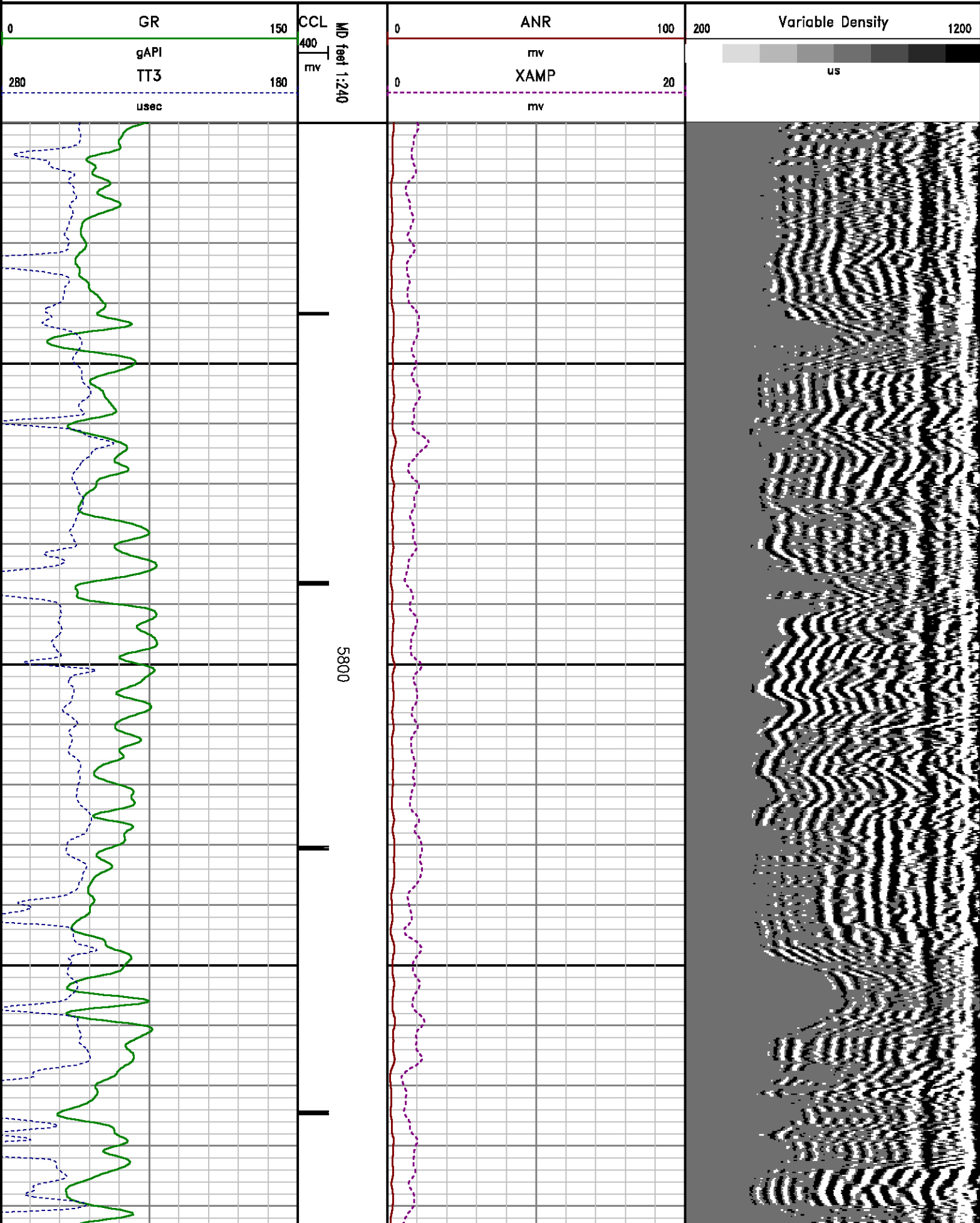
Well : STRAIT SG 31-22

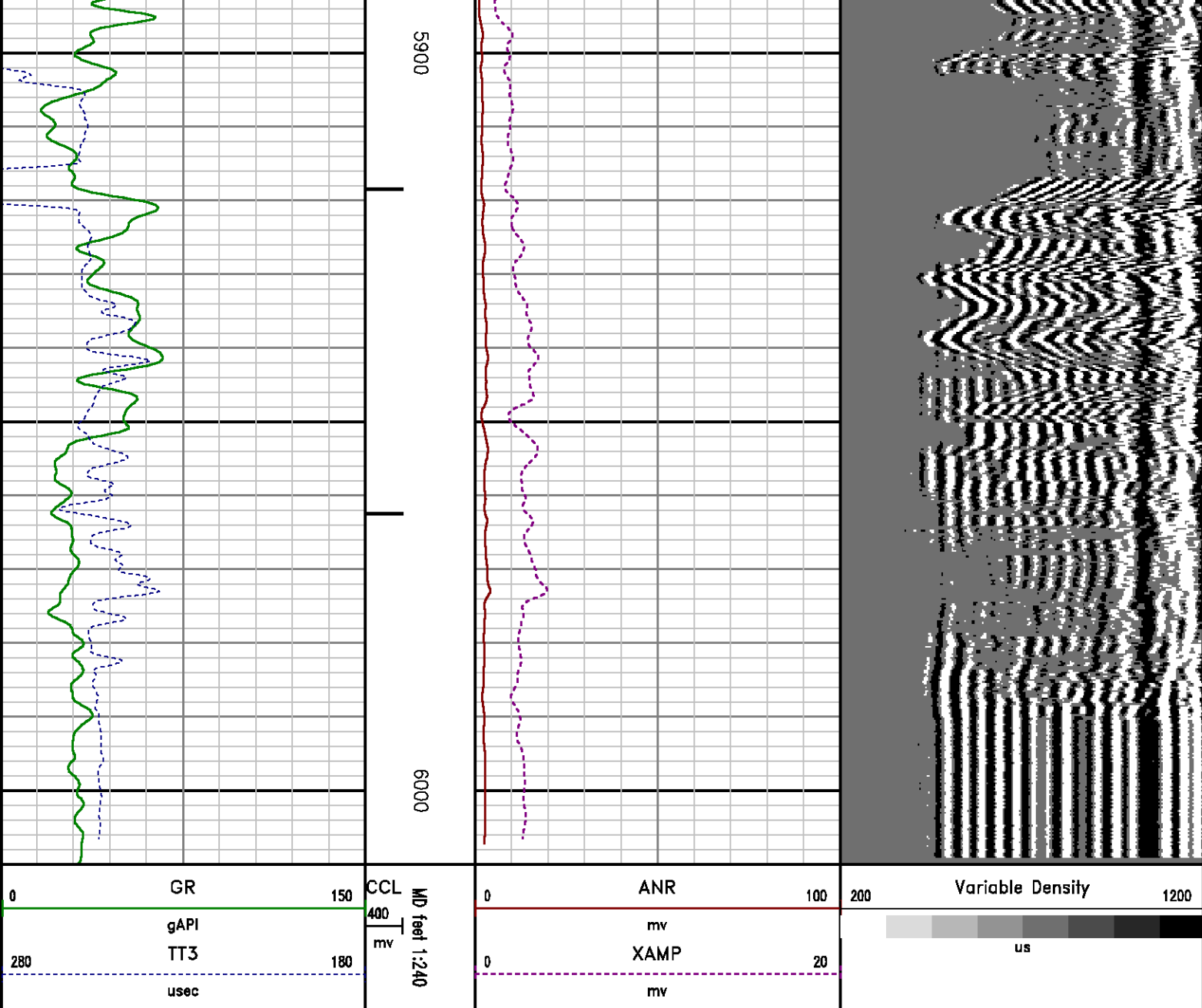
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Mode : PlotMgr 5.4.504

Interval : 5710.00 - 6010.00 feet UP

Created : 9/3/2013 10:36:26 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibrations: C:\case\calver\RALSHP\495SEP3 shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Sep 03 08:06:18 2013 TOOL SERIES: 1426XA ASSET: 495 SEQ: SEP3

Tool Delay	-58.00	Tank OD	5.50	Tank Wt	15.50	Tank ID	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	222	216	30	166	25	-0.100	100.00	0.16
3 Ft. Receiver	222	216	30	166	25	-2.451	100.00	0.15
5 Ft. Receiver	332	328	30	282	25	-3.163	150.00	0.17
Radial #1	223	216	30	166	25	2.522	100.00	0.15
Radial #2	222	216	30	166	25	1.422	100.00	0.15
Radial #3	221	216	30	166	25	-0.200	100.00	0.15
Radial #4	221	216	30	166	25	-0.638	100.00	0.15
Radial #5	221	216	30	166	25	-0.794	100.00	0.15
Radial #6	221	216	30	166	25	-0.833	100.00	0.15
Radial #7	221	216	30	166	25	-0.812	100.00	0.15
Radial #8	223	216	30	166	25	-0.731	100.00	0.15

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\495SEP3 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Sep 03 08:08:11 2013 TOOL SERIES: 1426XA ASSET: 495 SEQ: SEP3

Tool Delay [usec] -58.00 Casing OD 4.50 Casing Wt 11.60 Casing ID 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	0.007	0.000	1.00	100.000
3 Ft. Receiver	200	30	-0.376			
5 Ft. Receiver	317	30	-0.353			
Radial #1	200	30	-0.241			
Radial #2	200	30	-0.253			
Radial #3	200	30	-0.241			
Radial #4	200	30	-0.315			
Radial #5	200	30	-0.283			
Radial #6	200	30	-0.304			
Radial #7	200	30	-0.211			
Radial #8	200	30	-0.250			

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 Calibrator On Multiplicative Background Calibrator On Differential

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

TOOL DIAGRAM

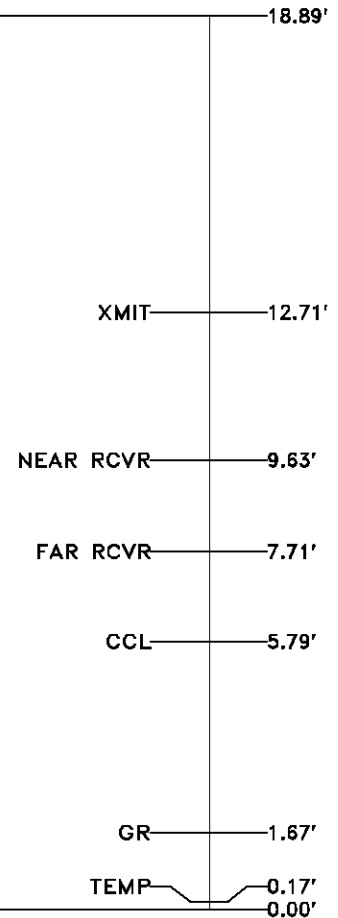
OTA SHORT CABLE HEAD

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	WPX ENERGY		
Well	STRAIT SG 31-22		
Field	GRAND VALLEY		
County	GARFIELD	State	COLORADO

File No:	CH076671
API No:	05045217530000

Location

SHL: 1451' FNL & 297' FEL SEC:22
BHL: 166' FNL & 1783' FEL SEC:22

Elevations

KB 5244 ft
DF
GL 5222 ft

22 7S 96W
SG 42-22
CYCLONE 17

SEC 22 TWP 7S RGE 96W