



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH076665	Company Well Field County	WPX ENERGY STRAIT SG 341-22 GRAND VALLEY GARFIELD	State COLORADO
API No: 05045217470000			
22 7S 96W SG 42-22 CYCLONE 17	Location SHL: 1458' FNL & 286' FEL SEC:22 BHL: 616' FNL & 623' FEL SEC:22 SEC 22 TWP 7S RGE 96W	Other Services N/A	
Permanent Datum Log Measured From Drill Measured From	E.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	B24A09	
Depth Driller	5722 ft	
Depth Logger	5702 ft	
Bottom Logged Interval	5692 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	46 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	187 degF	
Reference Log	BAKER HUGHES XMAC LOG	
Reference Log Date	12/AUG/15	
Equipment No.	4271	GRAND JUNCTION 9721
Recorded By	M. KINSEL	GRAND JUNCTION
Witnessed By	MR. DUSTIN WELSH	

- 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	814 ft
8.75 in	0 ft	5722 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	N/A	N/A	0 ft	800 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	5722 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH A BAKER HUGHES XMAC LOG DATED 12 AUGUST 2013 AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 4 FEET DOWN. DEPTH SHIFTING PROCESS CREATES THE POTENTIAL FOR COLLAR LENGTHS TO VARY FROM OTHER CASED HOLE LOGS WITHOUT A GAMMA RAY REFERENCE.
SHORT JOINT: 3588' - 3592'
BHT: 187 degF

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	16.562	5715.000
RAL	Amp Gate Start Near	200.391	usec	16.562	5715.000
RAL	Amp Gate Start Radial	200.391	usec	16.562	5715.000
RAL	Amp Gate Width Far	25.000	usec	16.562	5715.000
RAL	Amp Gate Width Near	25.000	usec	16.562	5715.000
RAL	Amp Gate Width Radial	25.000	usec	16.562	5715.000
RAL	casing od	4.500	inches	16.562	5715.000
RAL	casing wt	11.600	lbm/ft	16.562	5715.000
RAL	FB Start Far	291.900	usec	16.562	5715.000
RAL	FB Start Near	175.391	usec	16.562	5715.000
RAL	FB Start Radial	175.391	usec	16.562	5715.000
RAL	FB Thresh Far	10.000	mv	16.562	5715.000
RAL	FB Thresh Near	4.000	mv	16.562	5715.000
RAL	FB Thresh Radial	4.000	mv	16.562	5715.000
RAL	Fluid Travel Time	200.000	usec/ft	16.562	5715.000

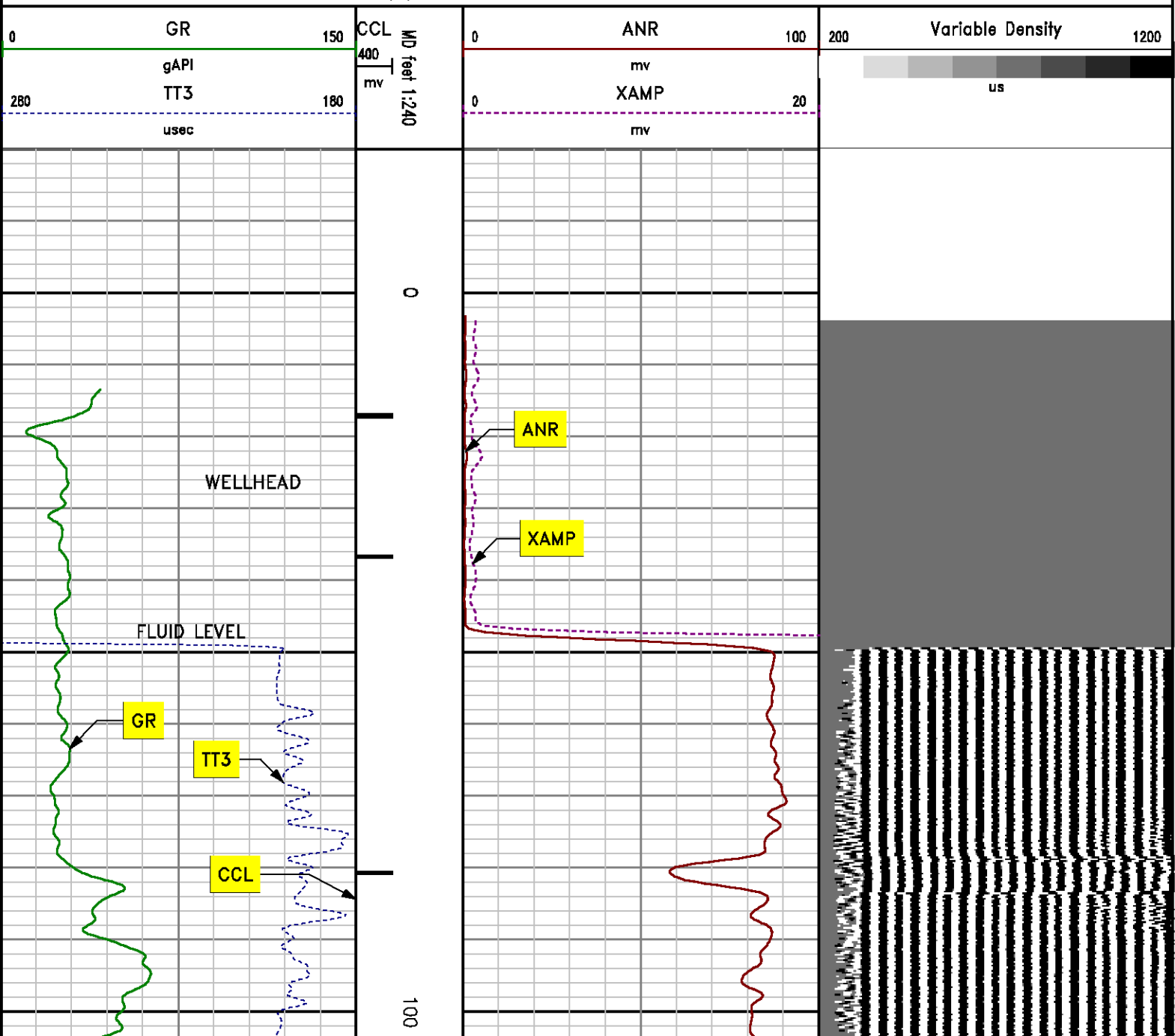
DEPTH OFFSETS
(for Acquired Curves)

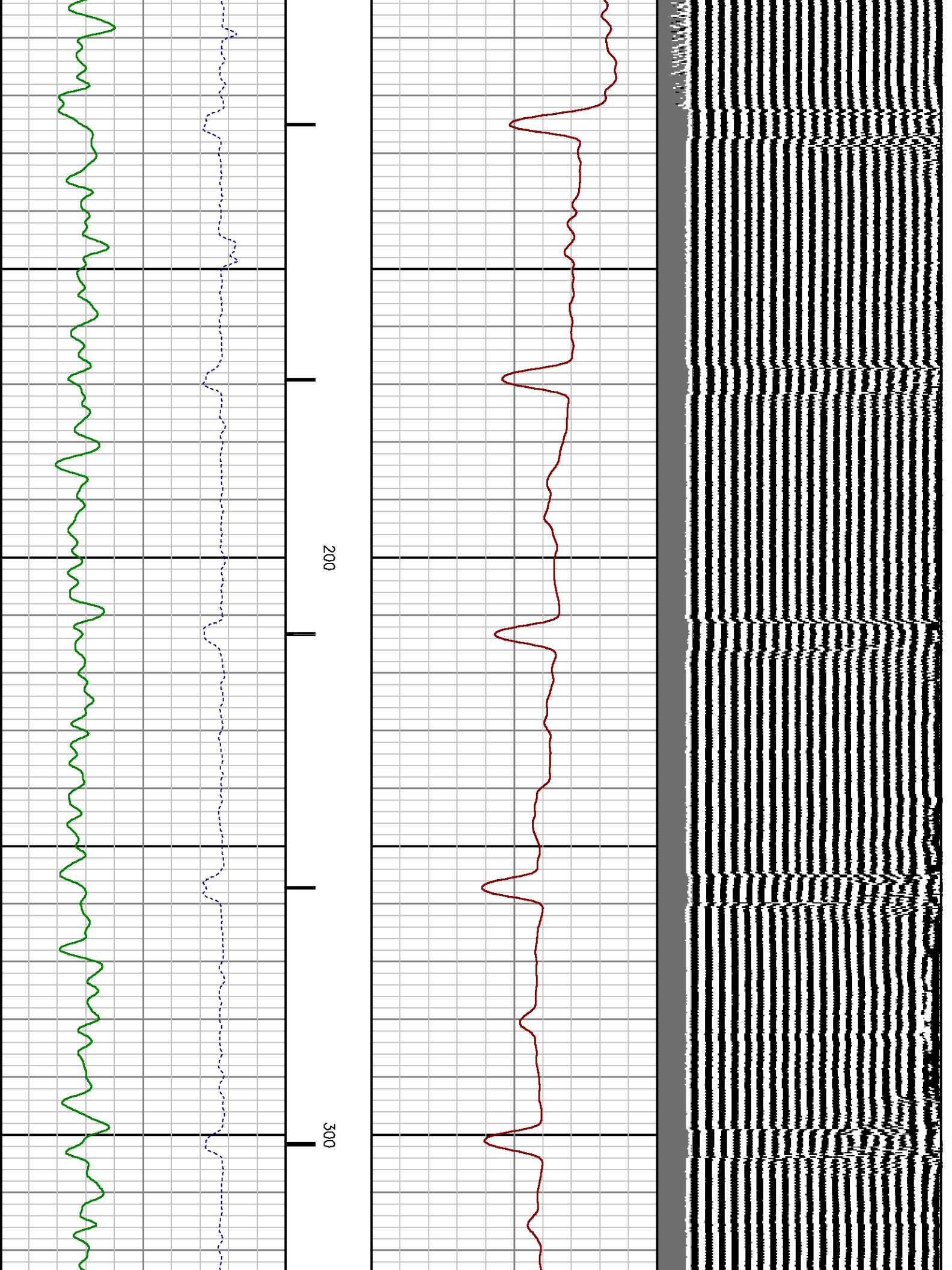
SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	16.562	10218495 10580209

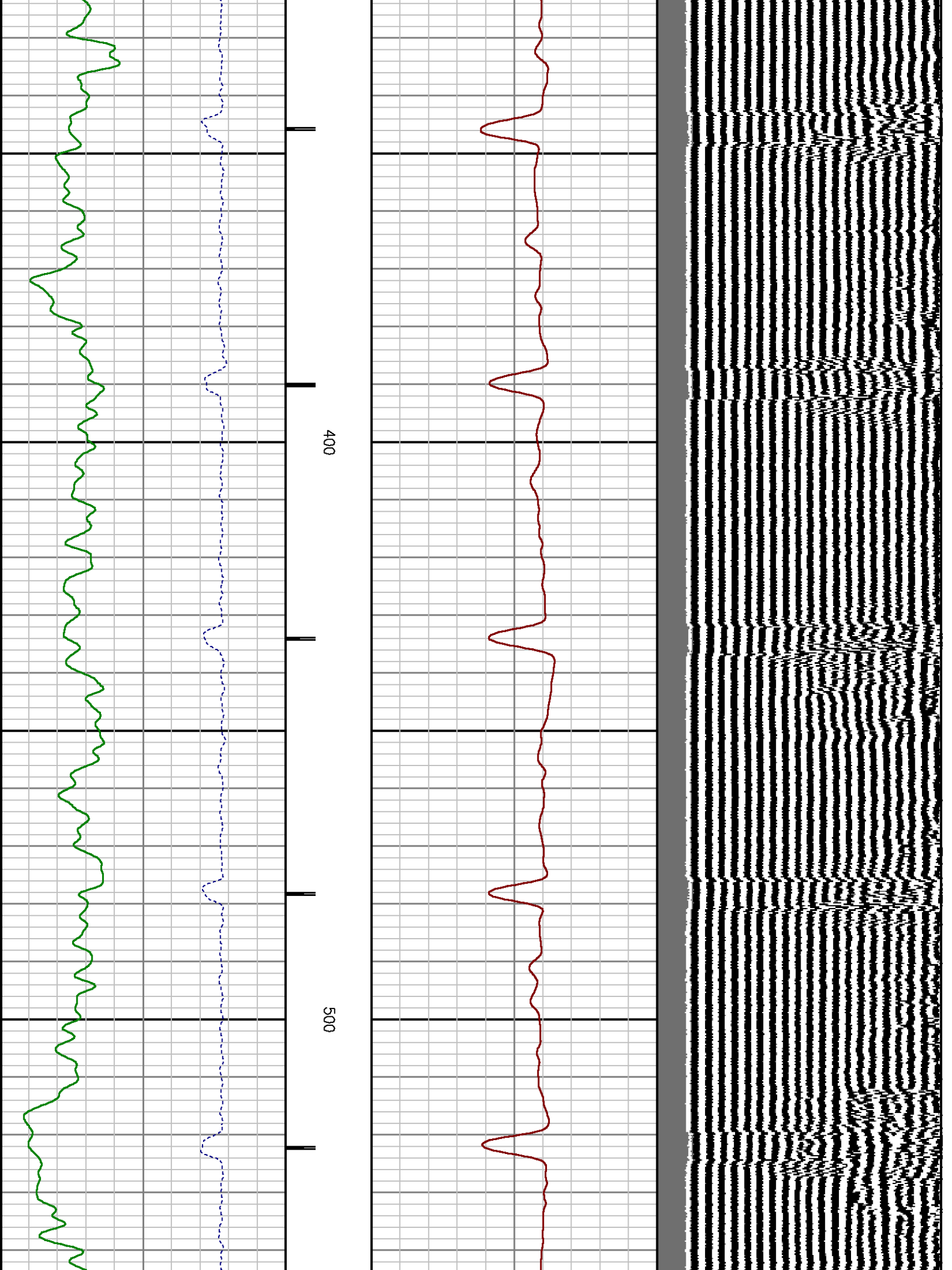
1426XA -11.000
 1355XA -5.620
 1355XA -1.500
 1355XA 0.000

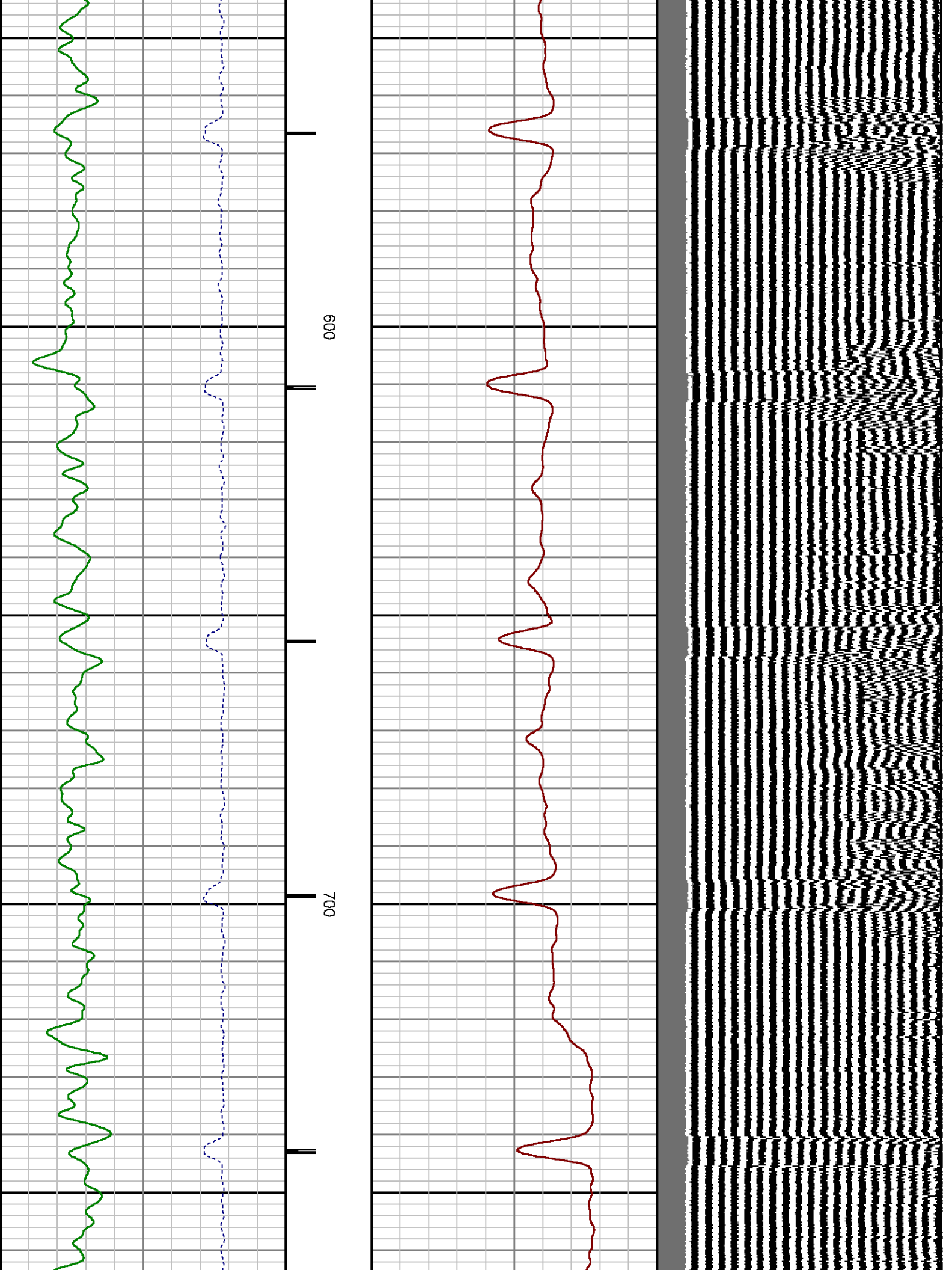
ACAL	ANR	AR1	AR2	AR3	AR4
AR5	AR6	AR7	AR8	CHV	FPR2
FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
TEMP					

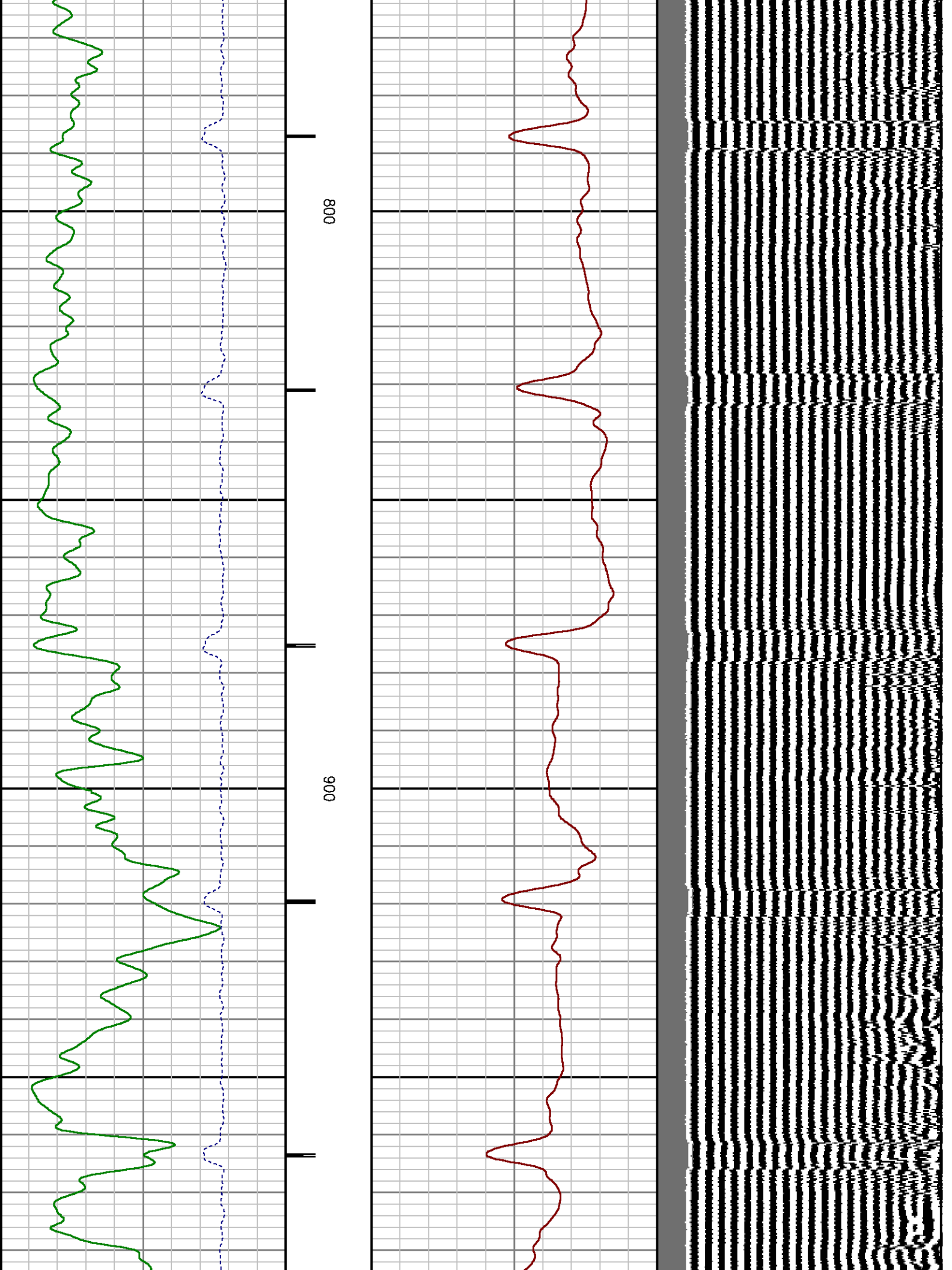
Created by : RAL, v4.8.008
 Plotted by : PlotMgr, v5.4.504
 Company : WPX ENERGY
 Well : STRAIT SG 341-22
 File Name : d:\welldata\341cbl\main.xtf
 Mode : PlotMgr 5.4.504
 Interval : -20.00 - 5710.00 feet UP
 Created : 9/3/2013 8:40:23 AM

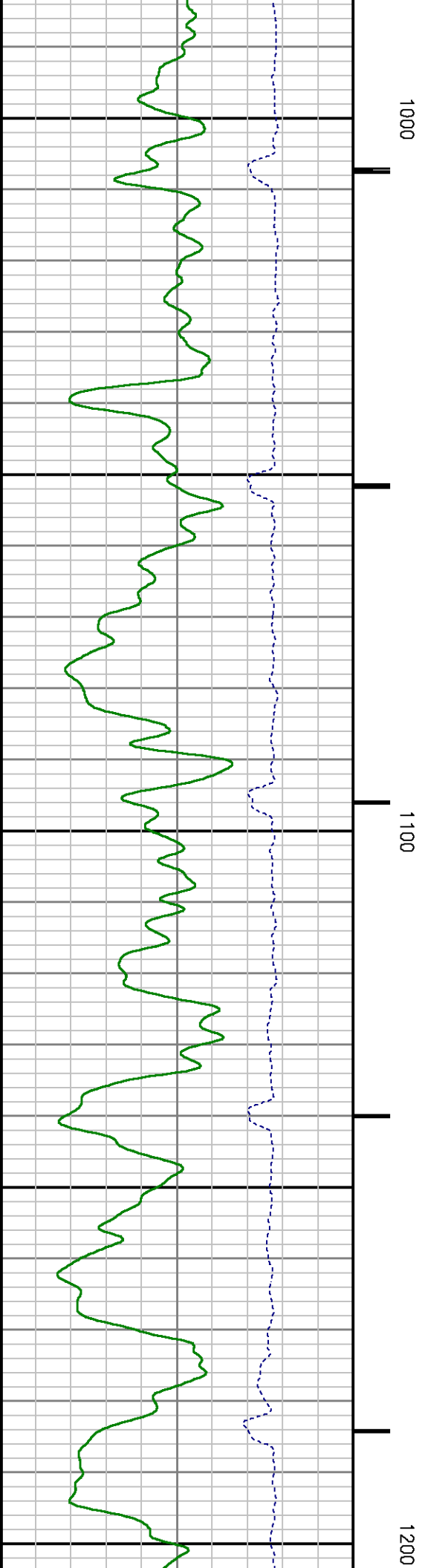
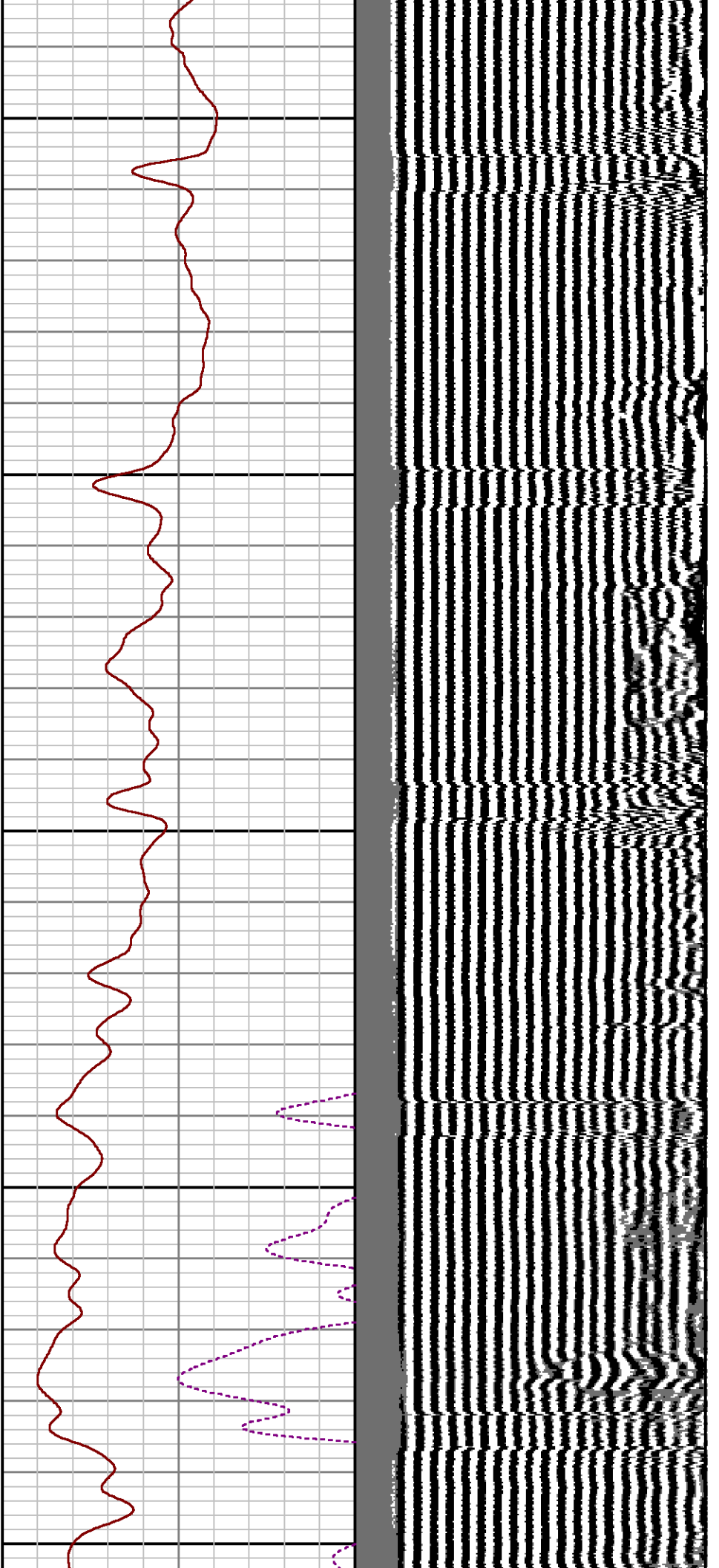


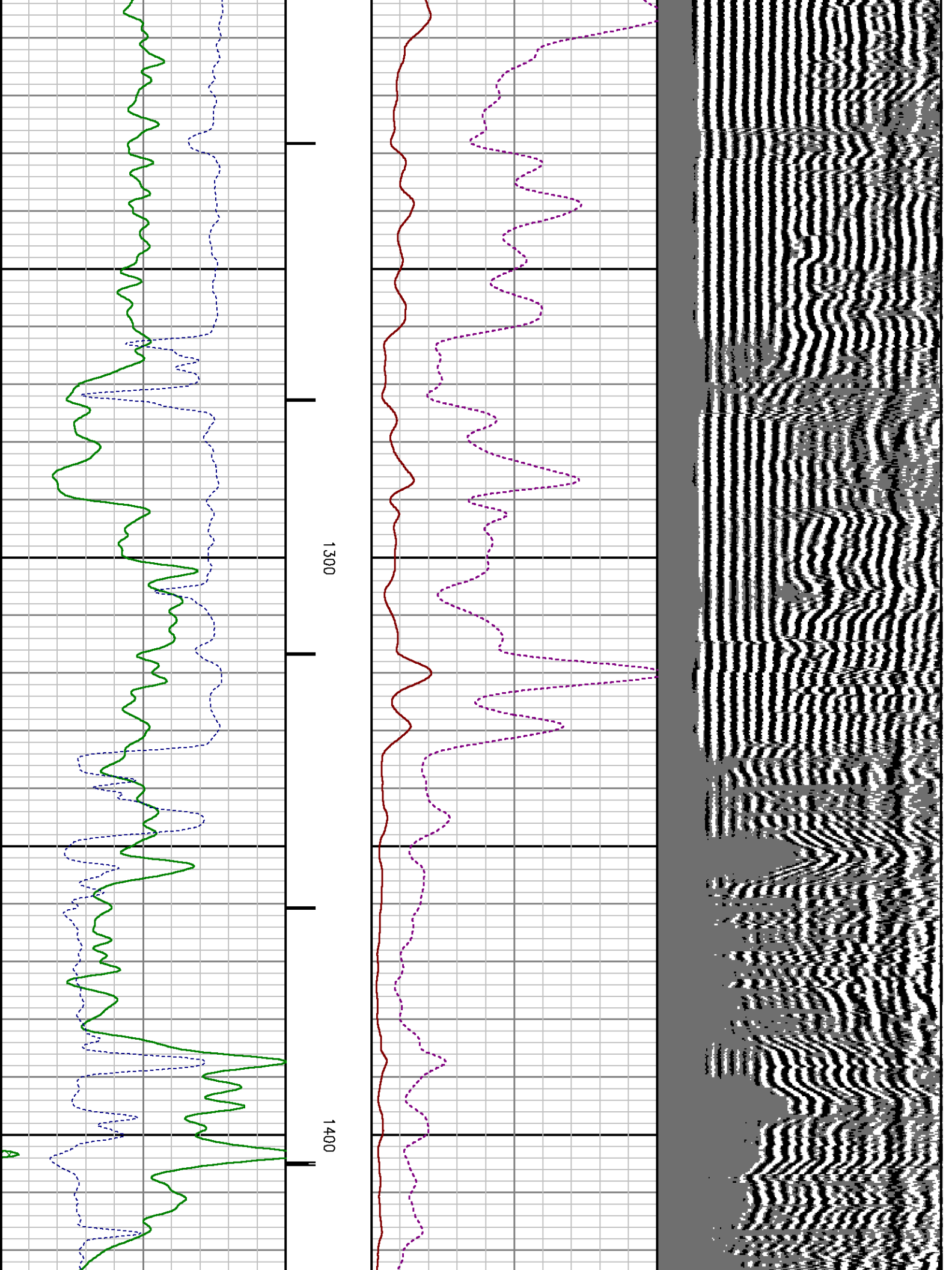


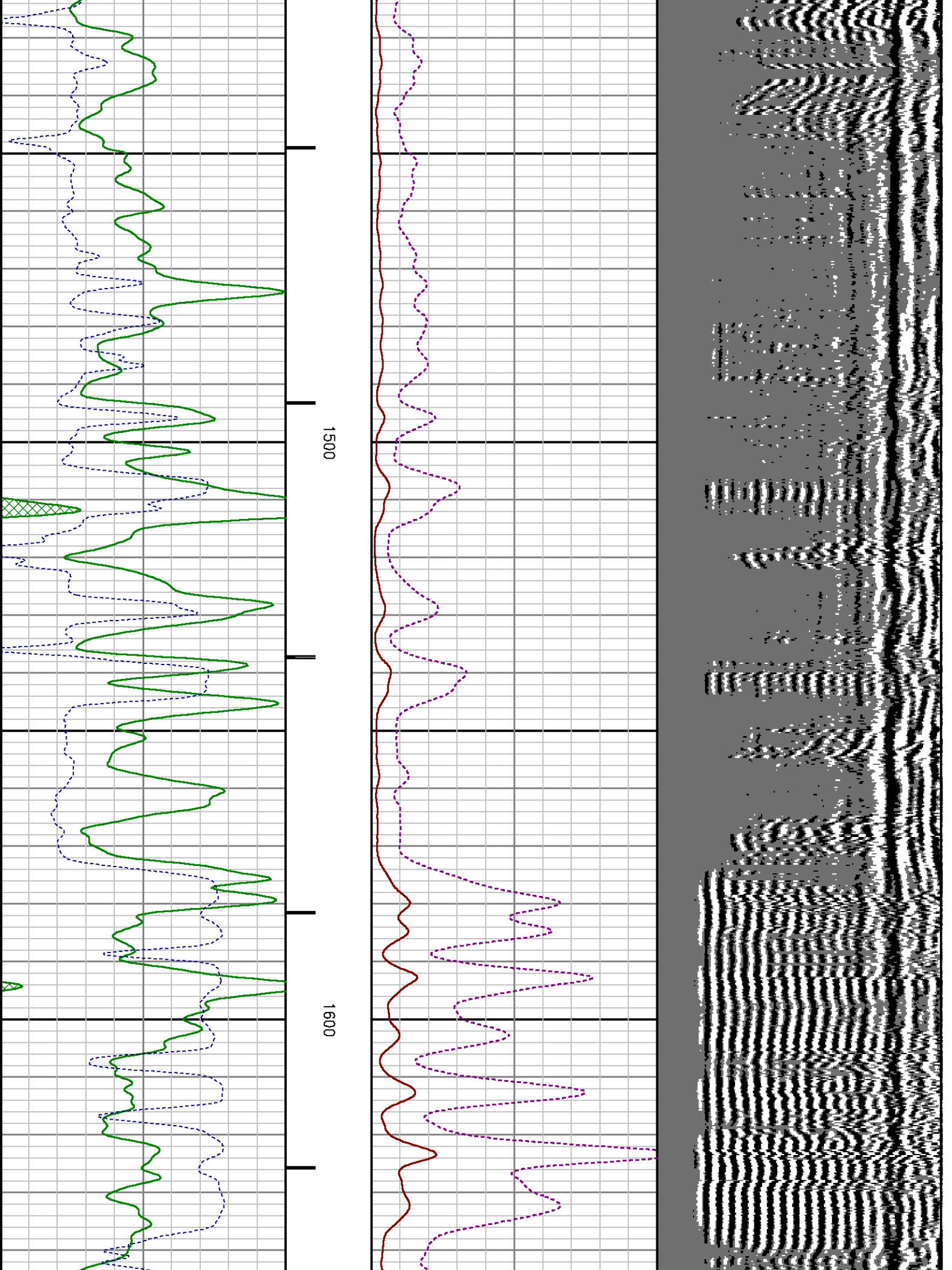


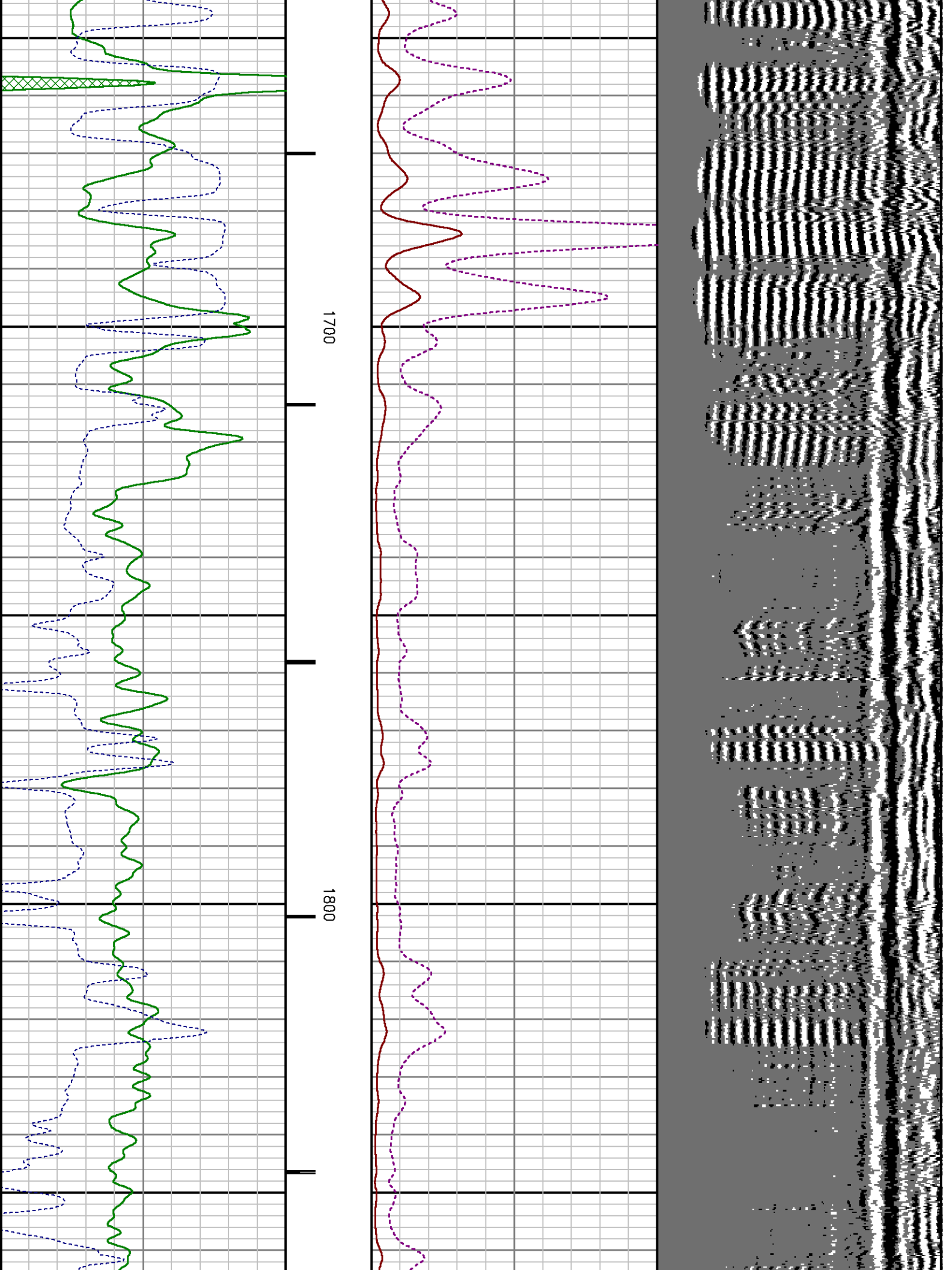


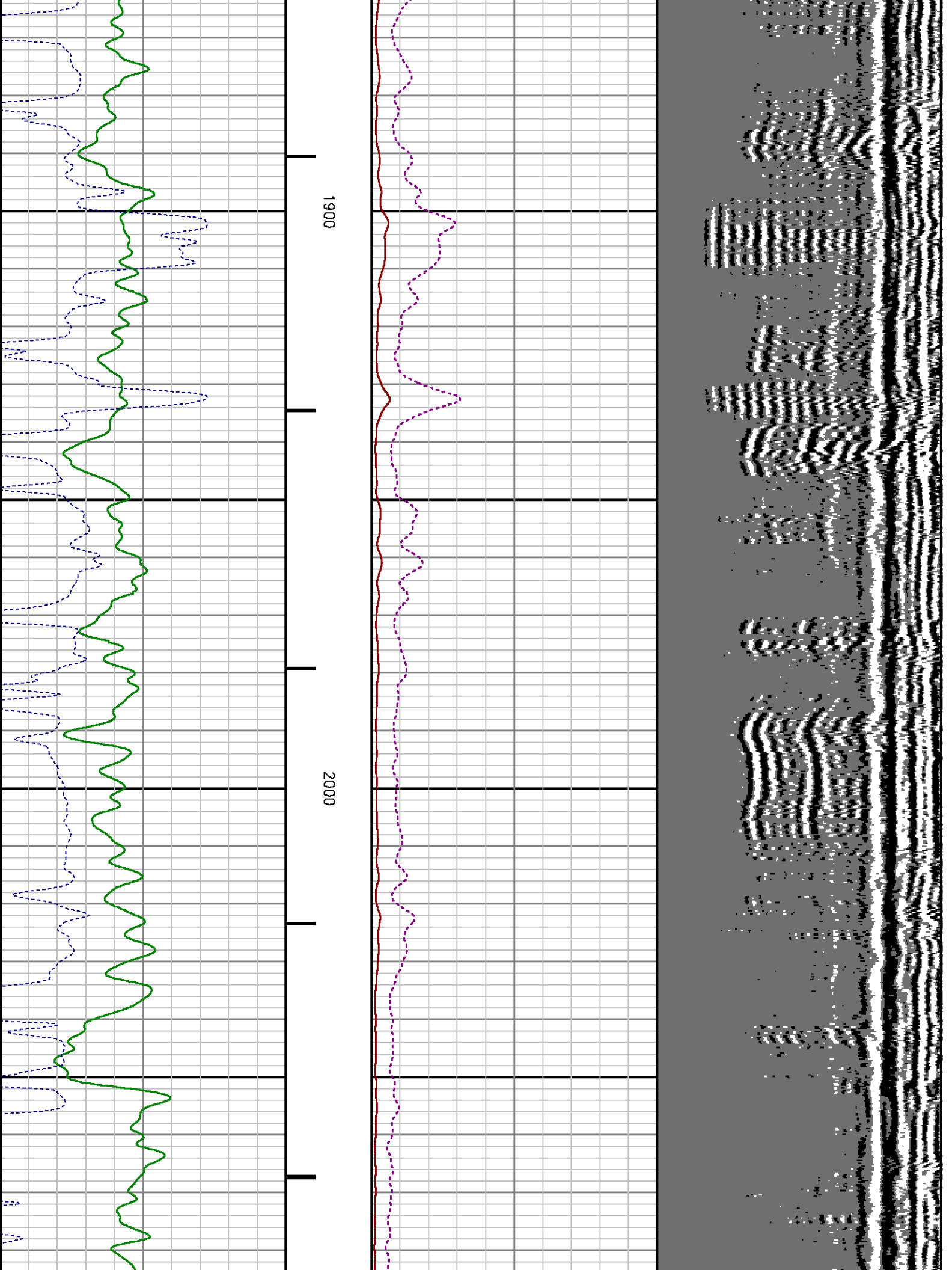


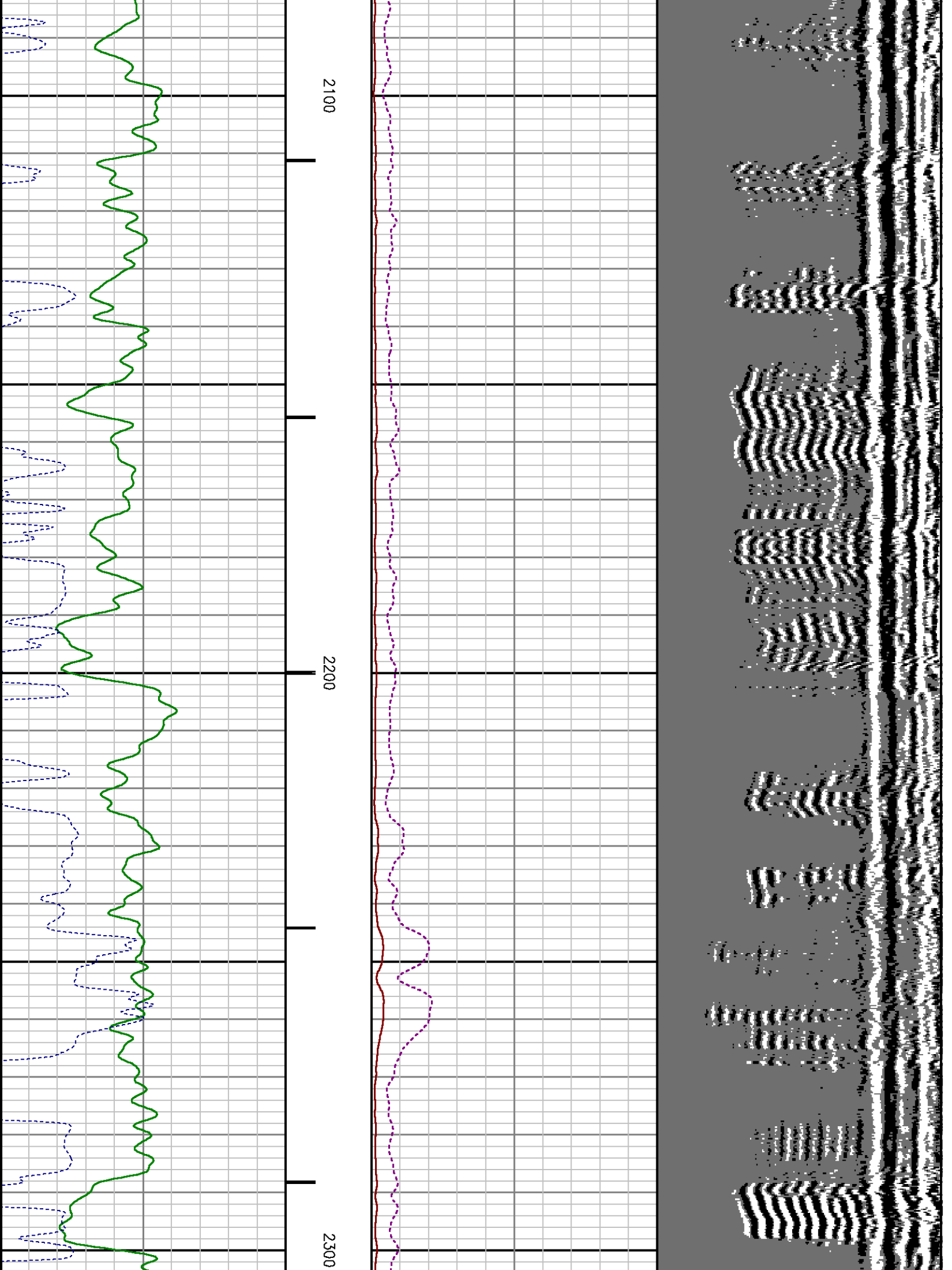


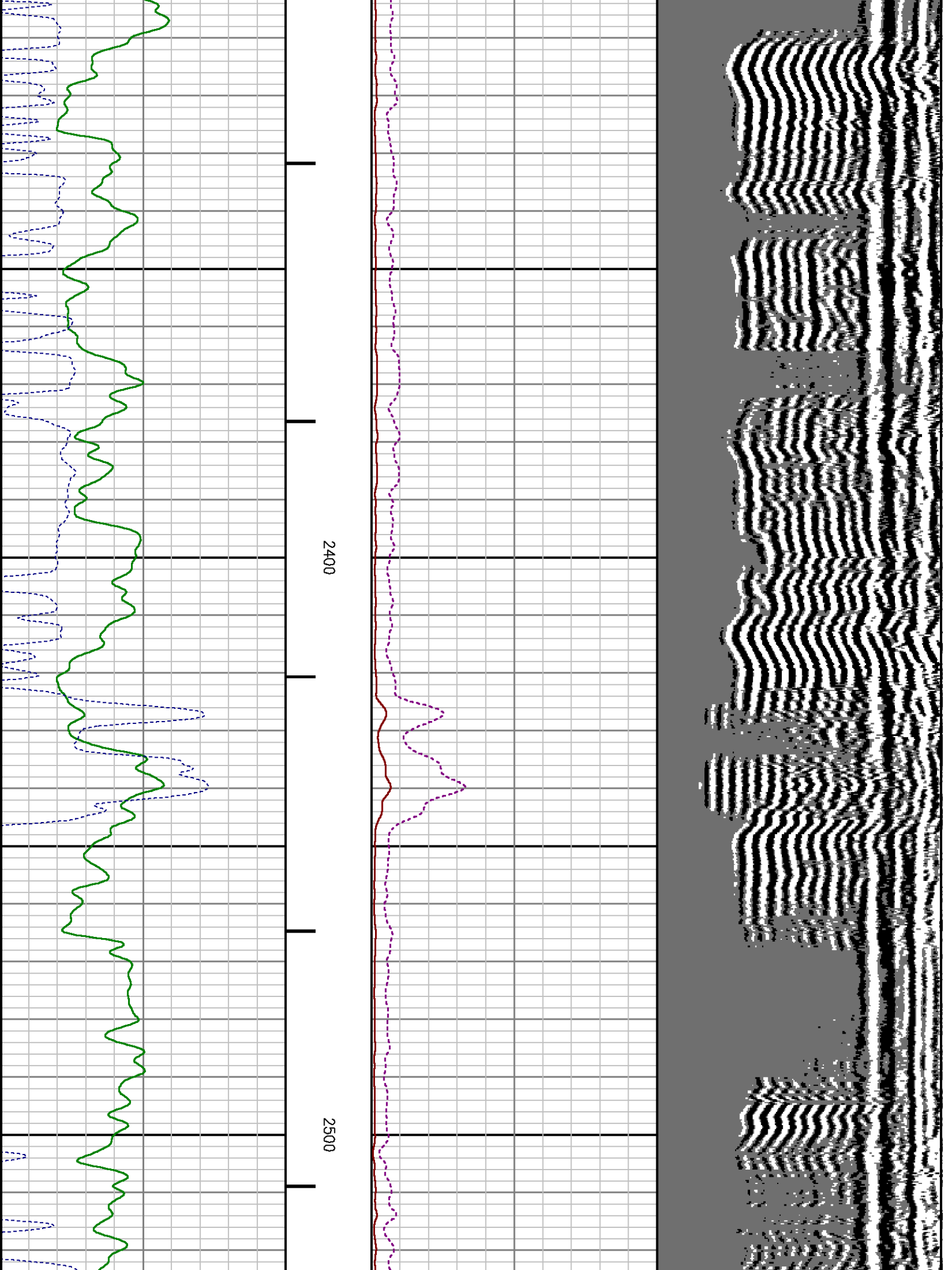


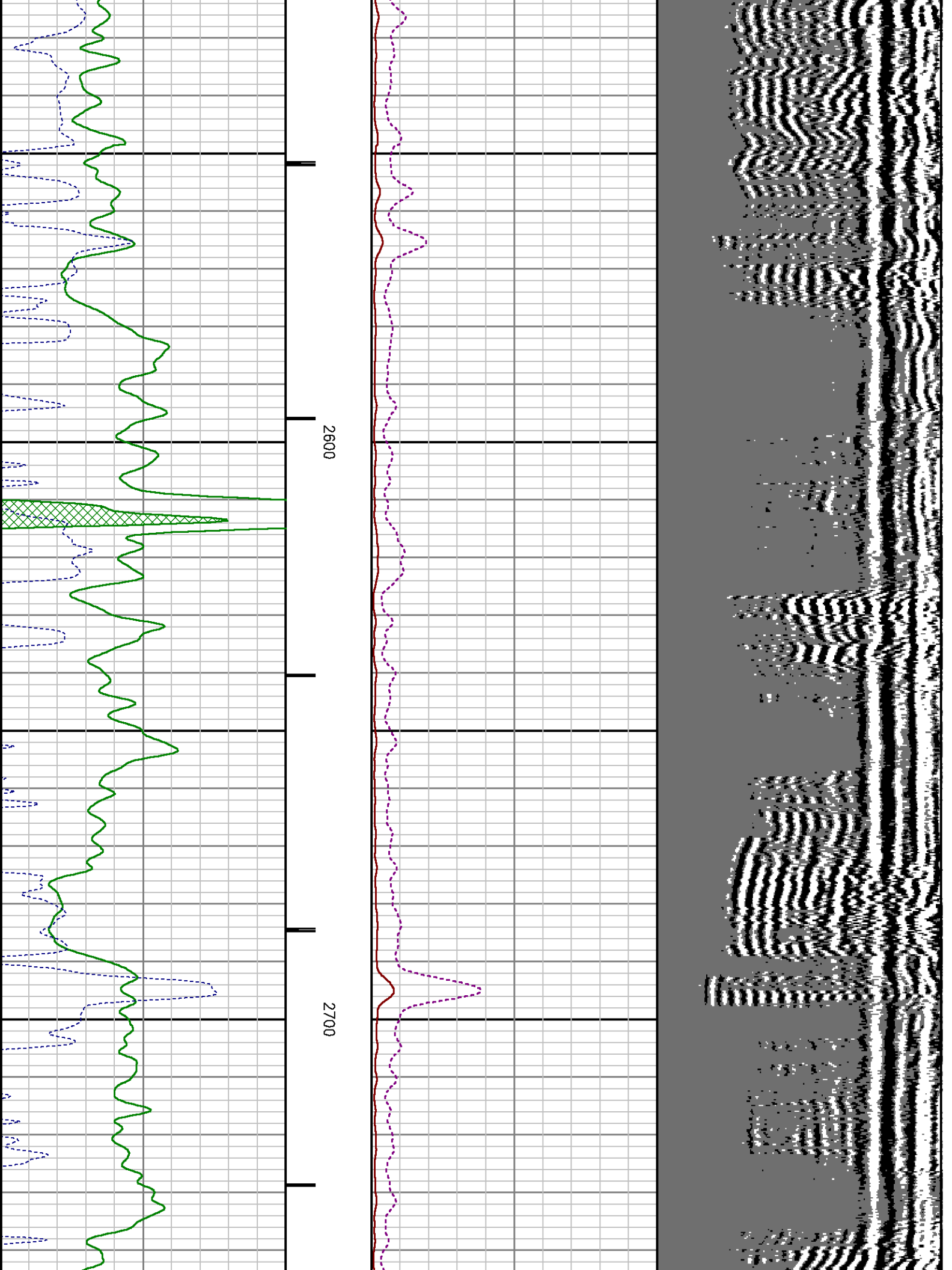


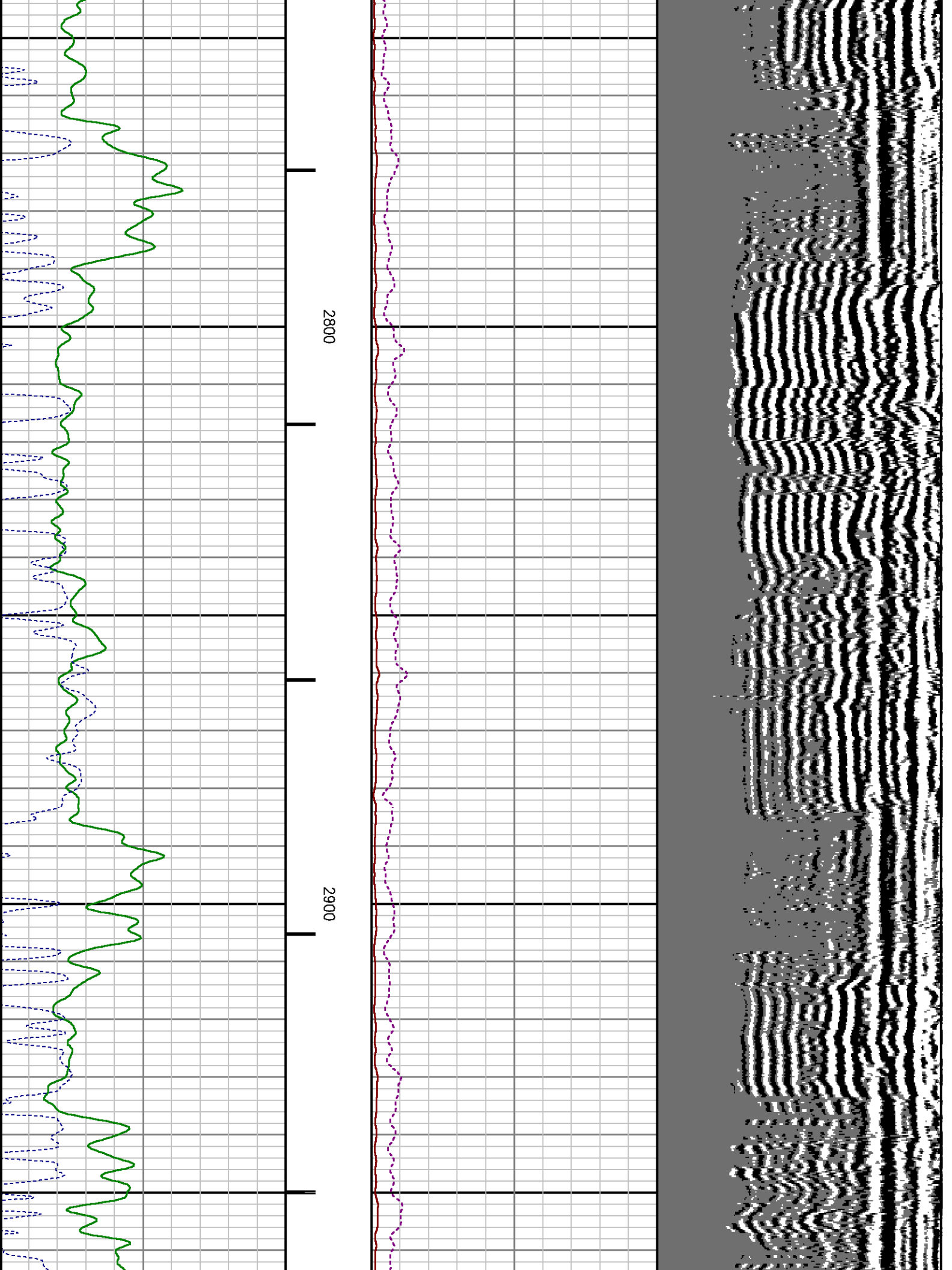


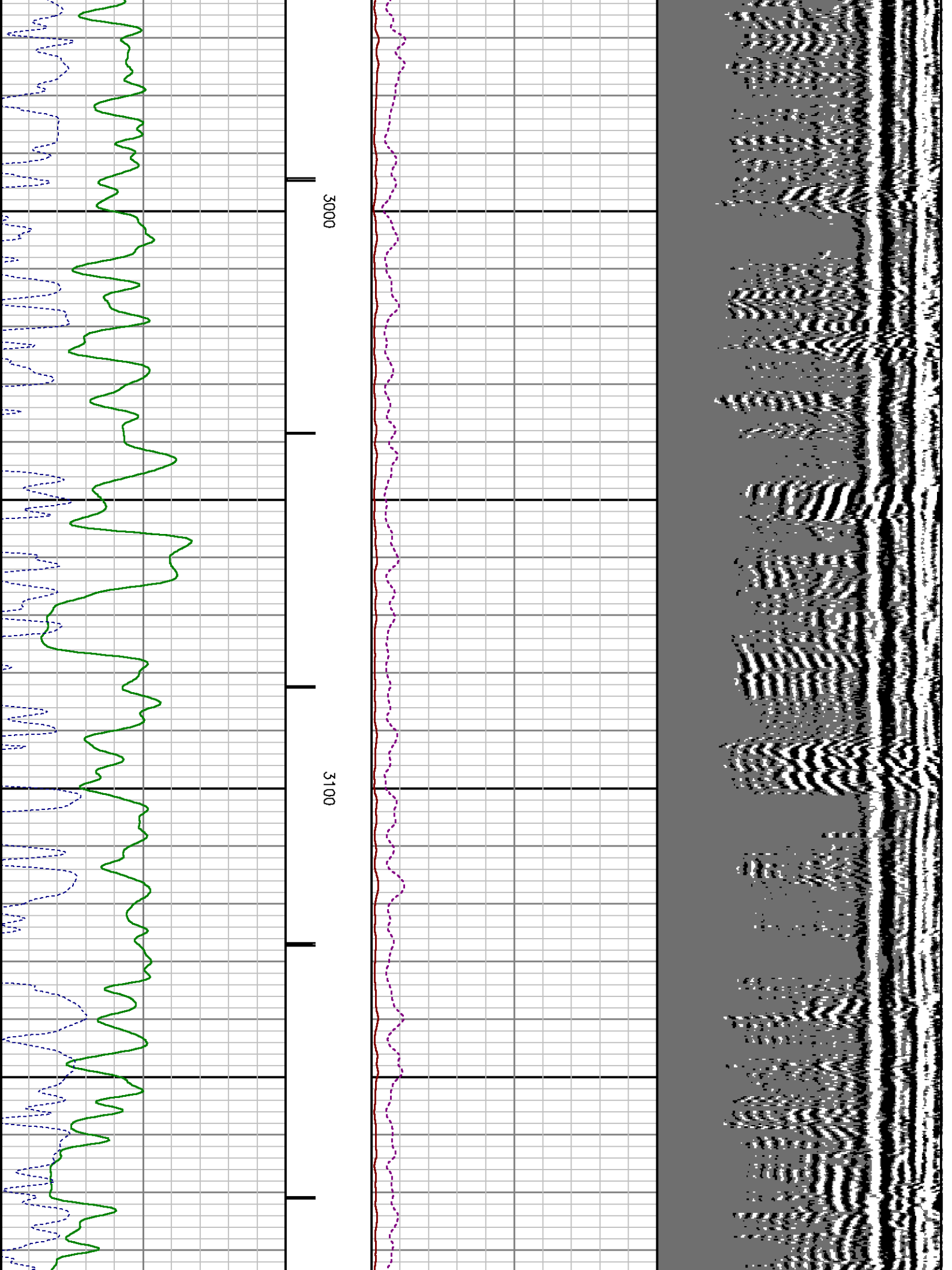


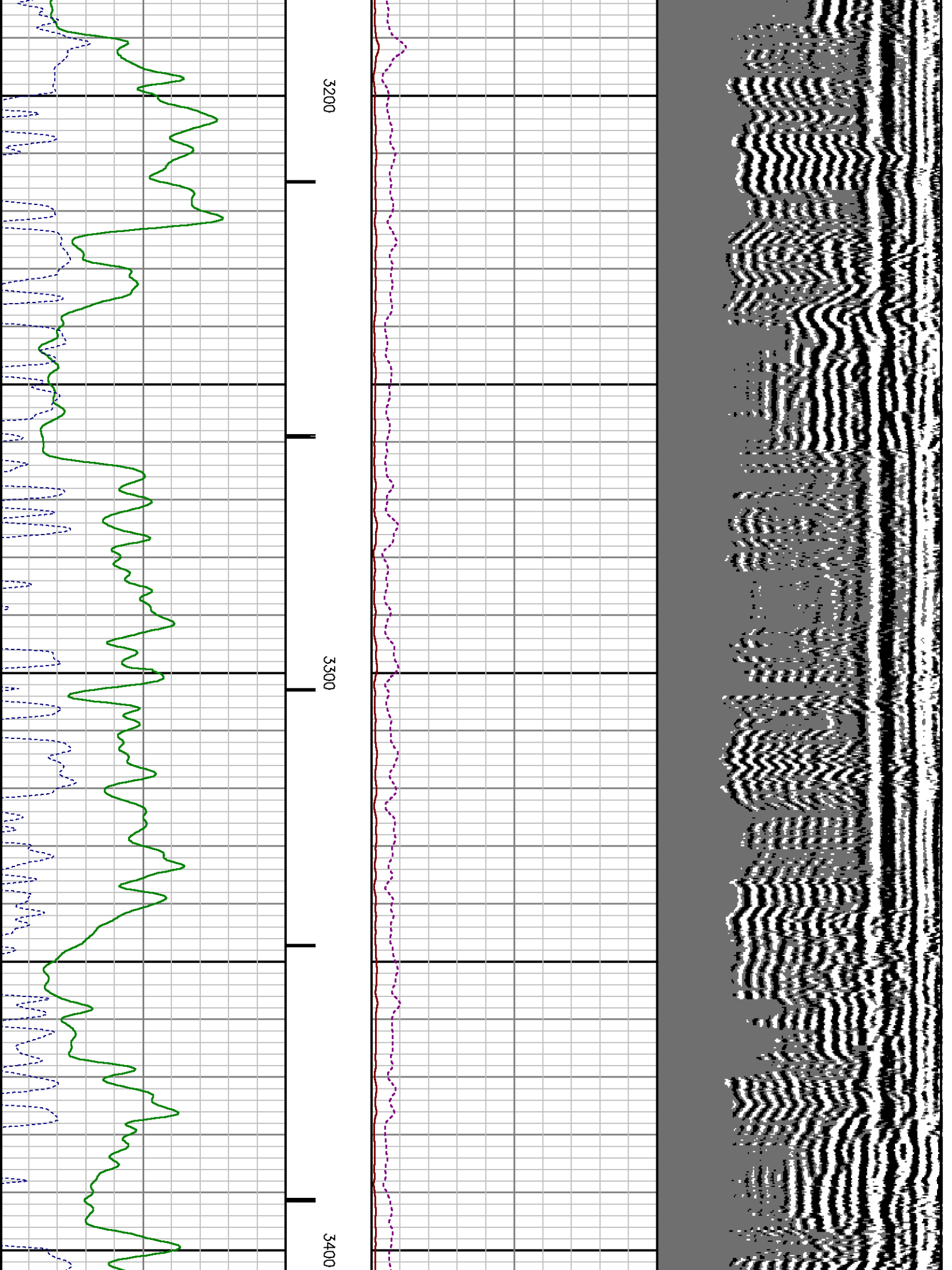


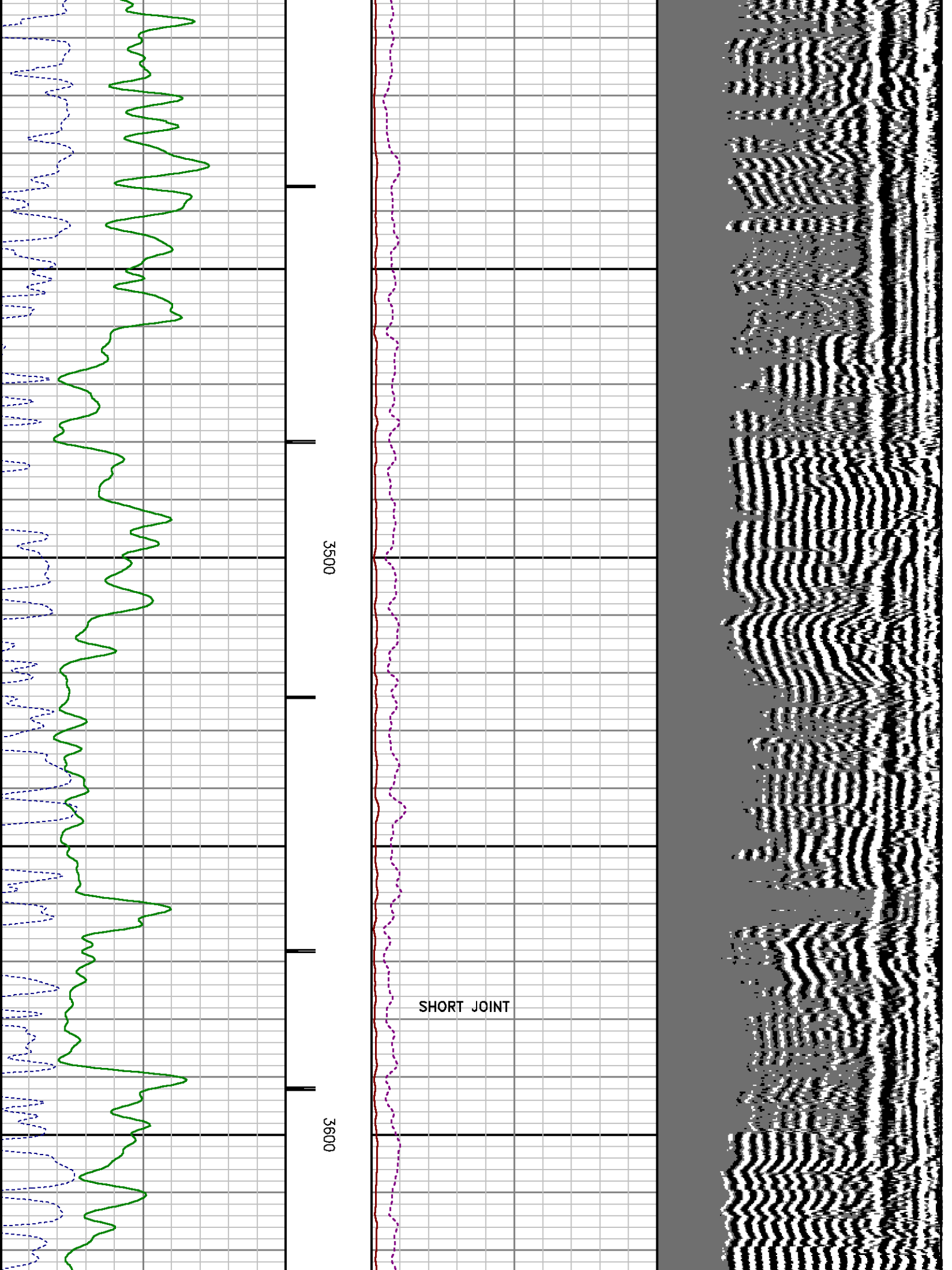


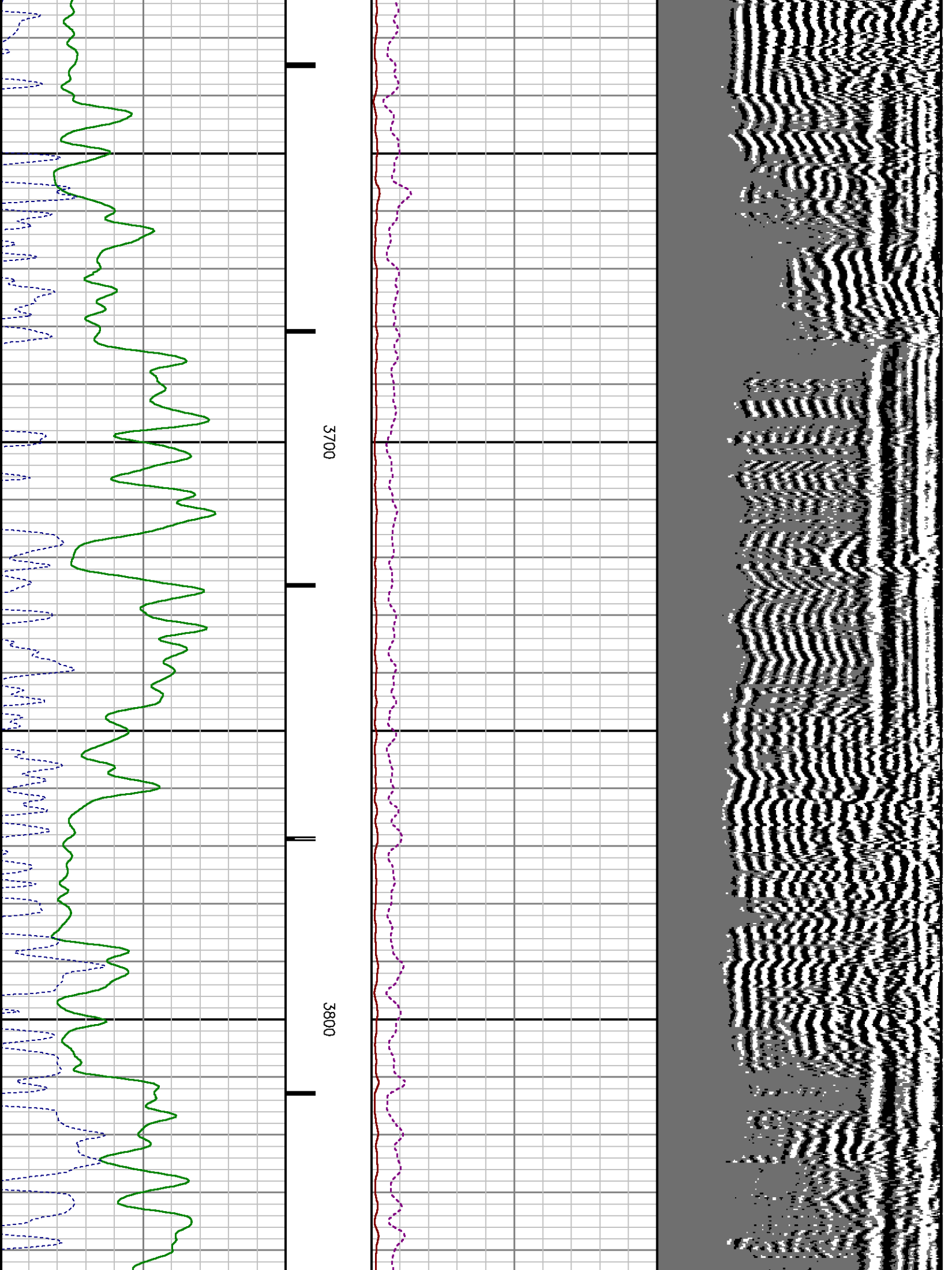


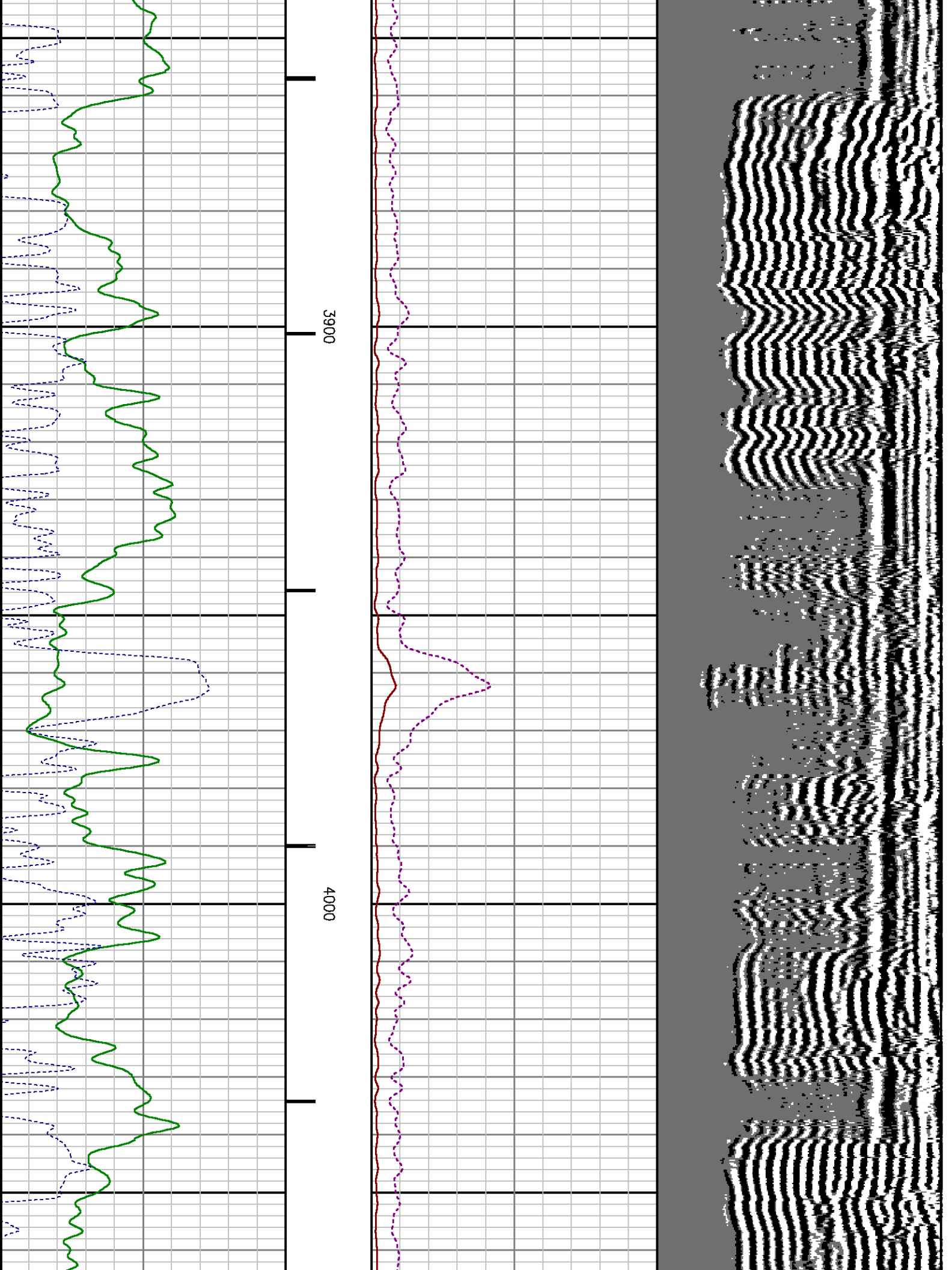


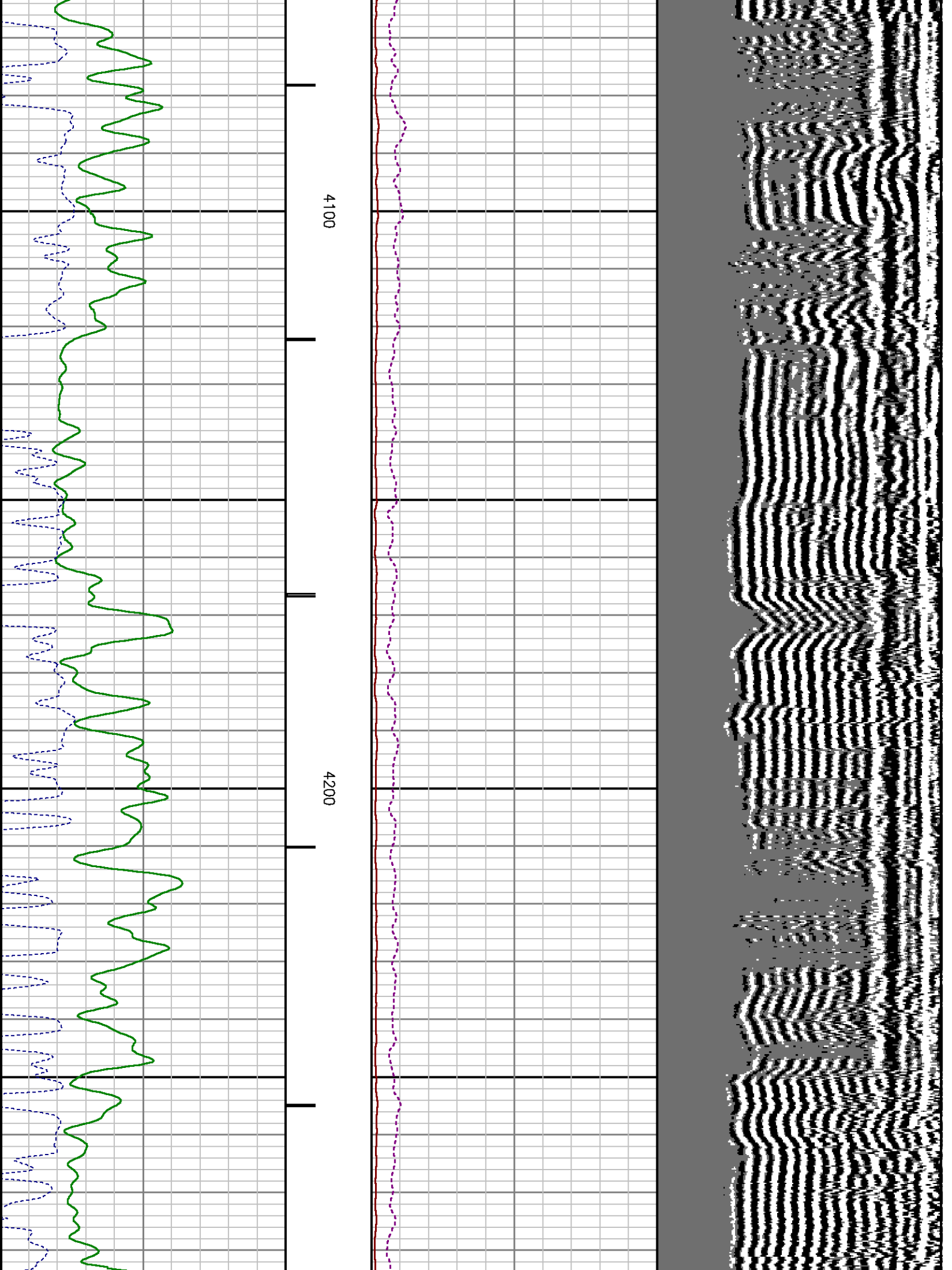


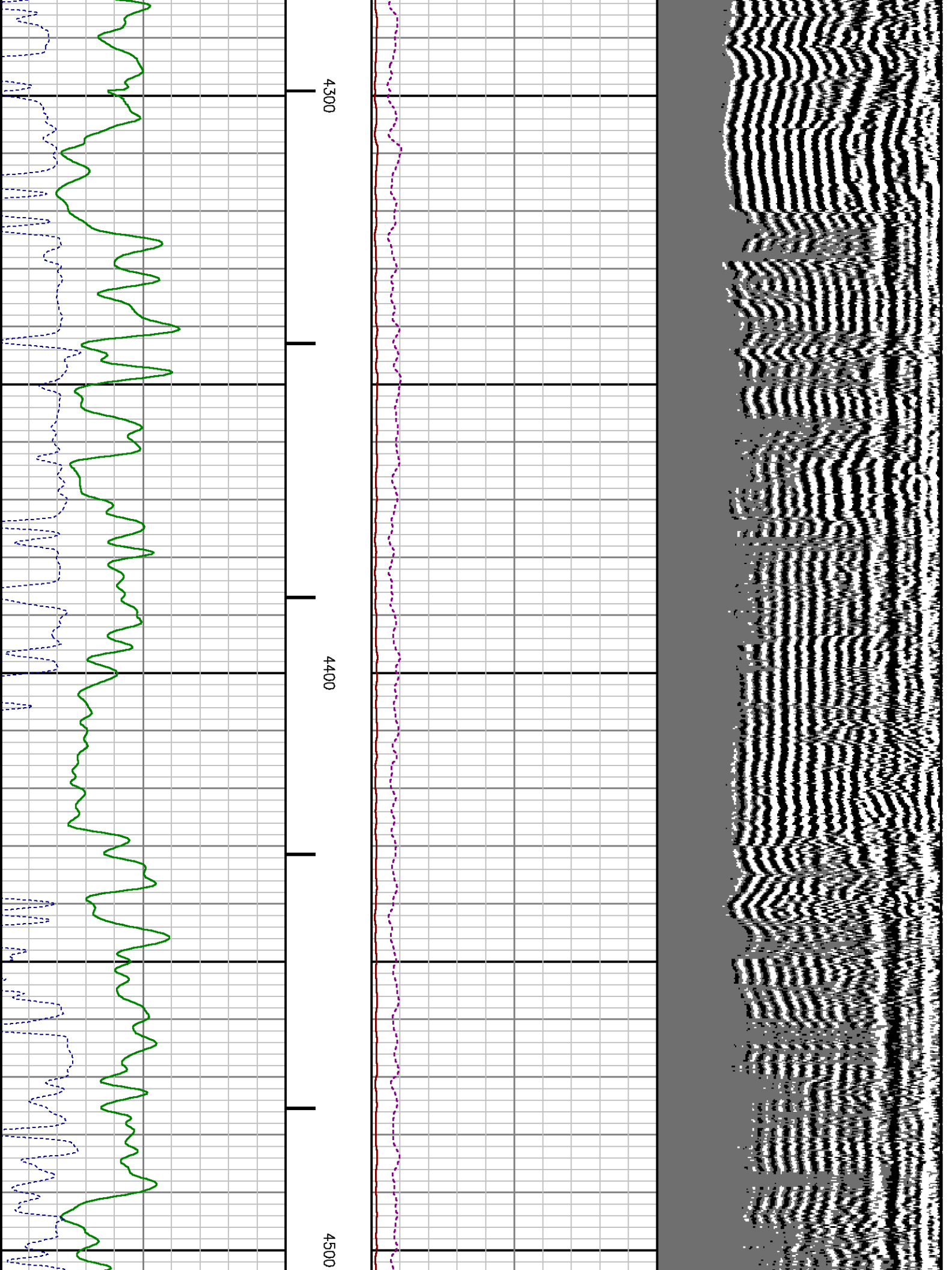


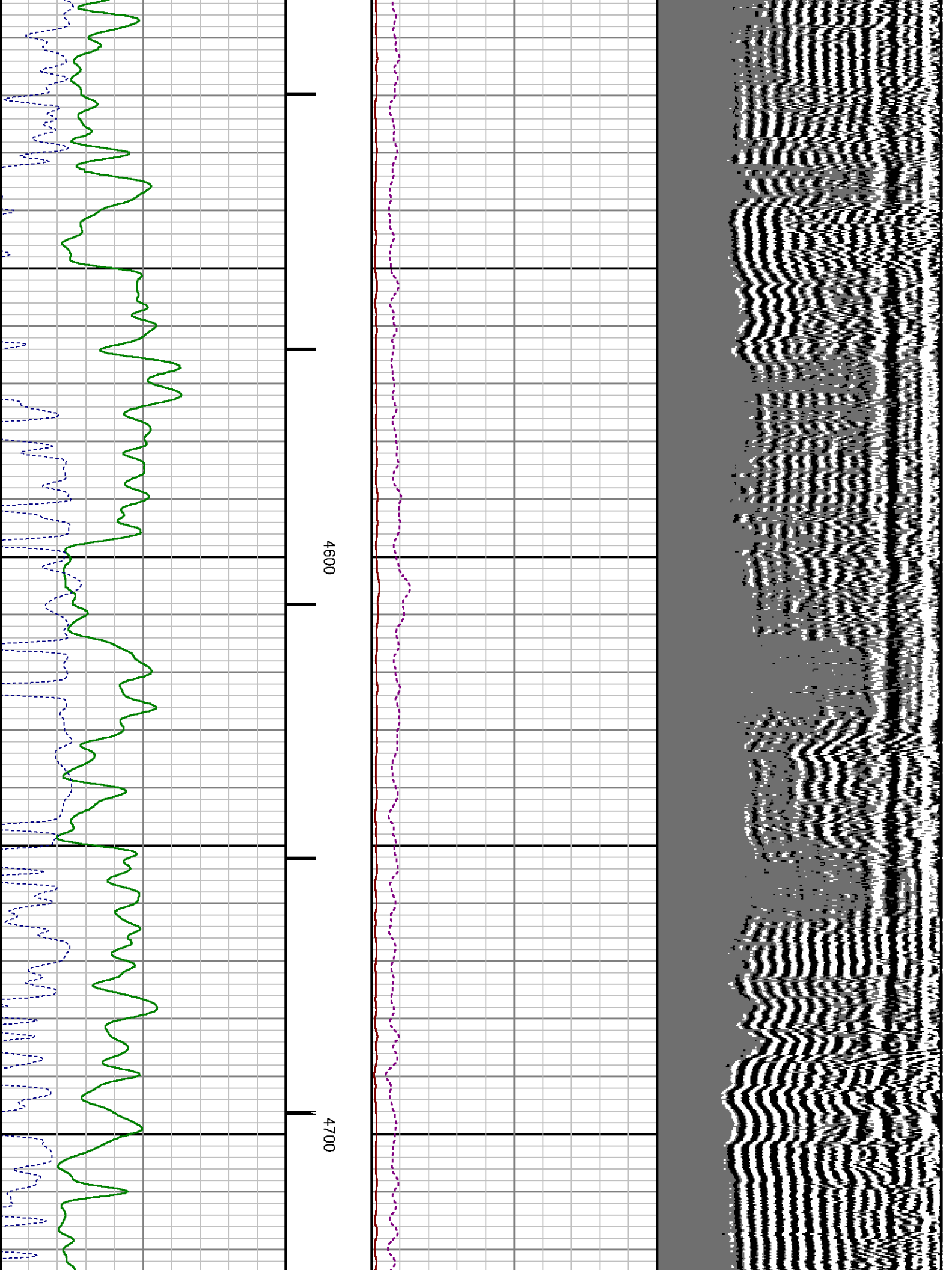


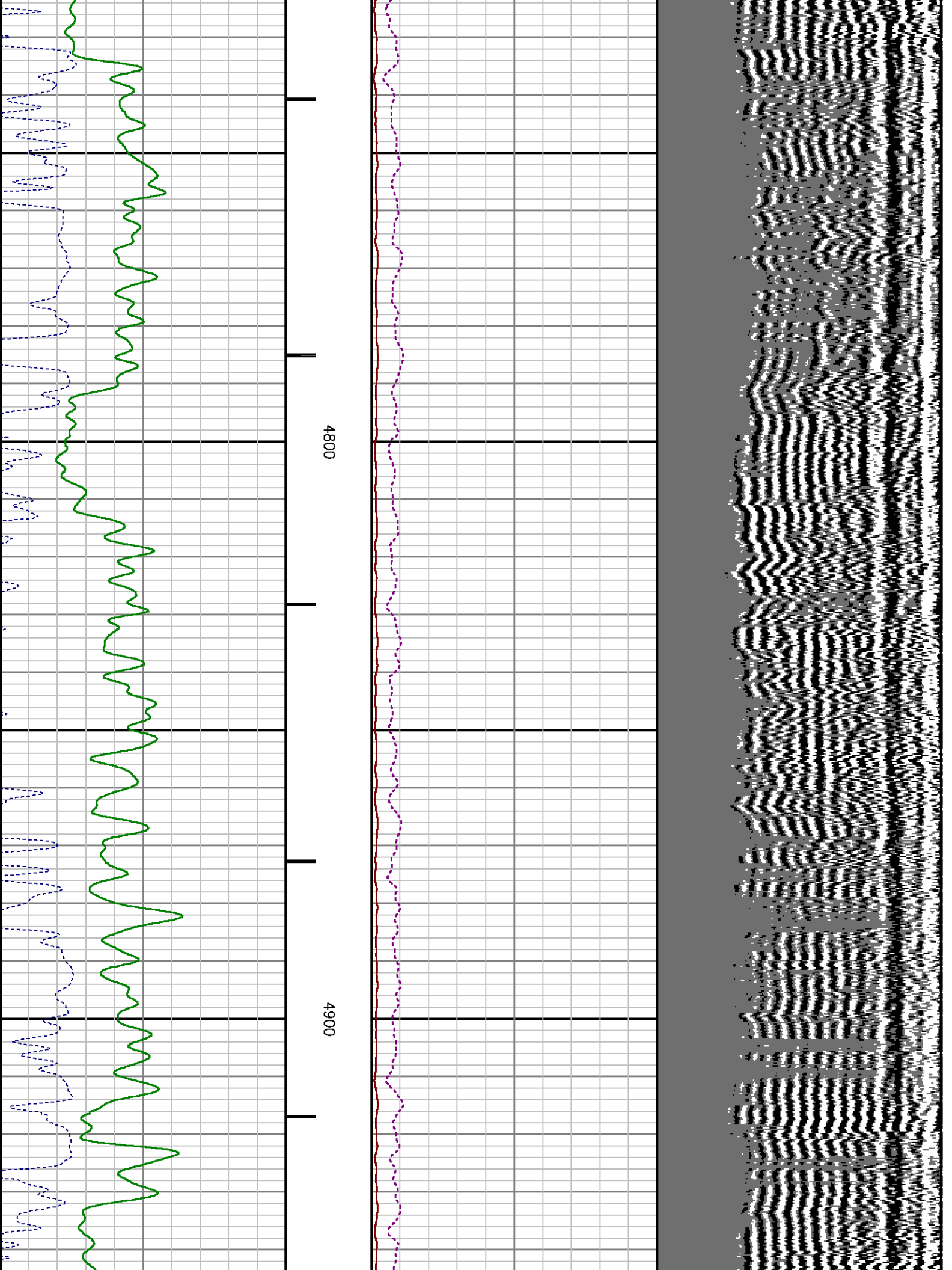


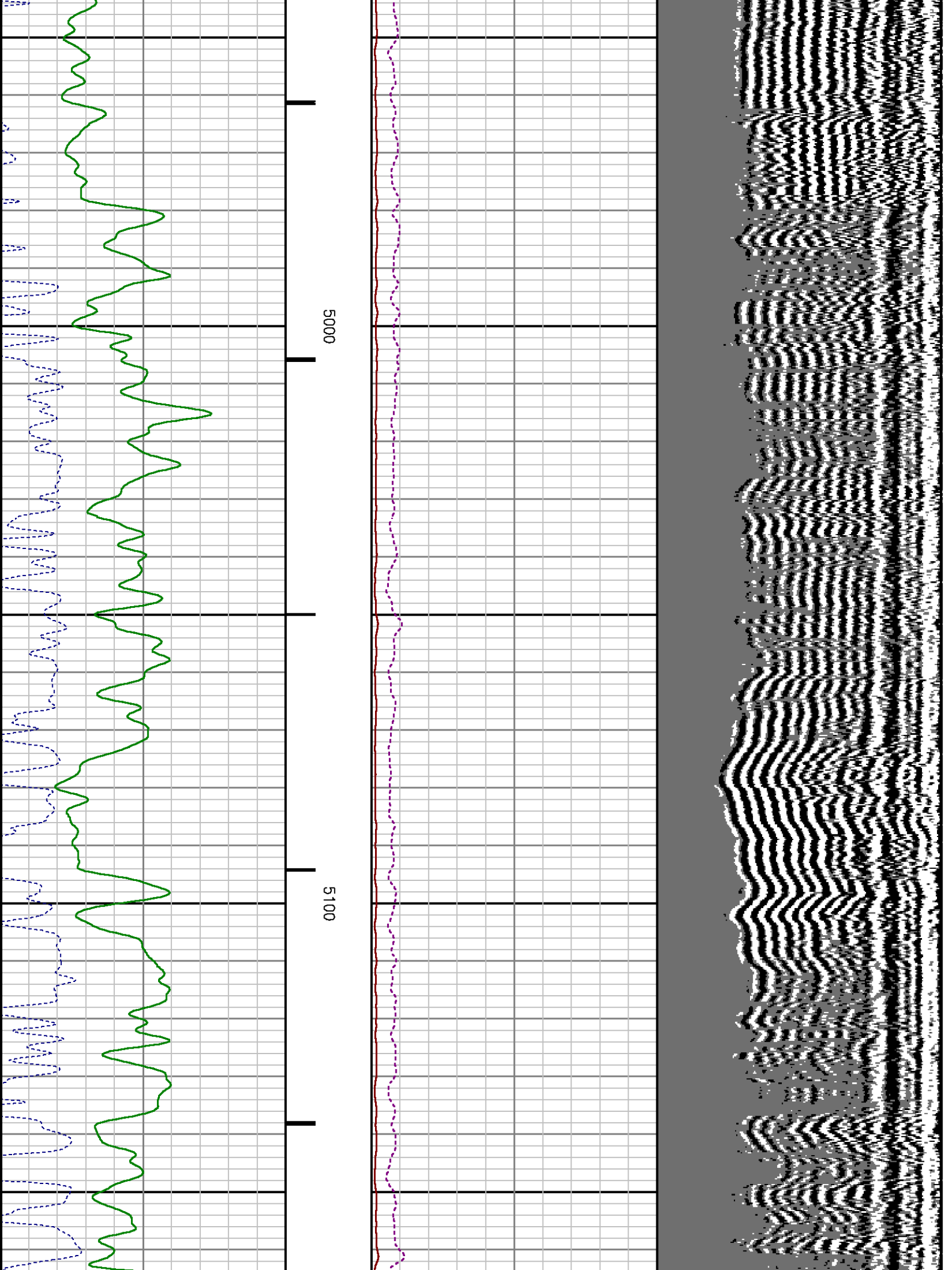


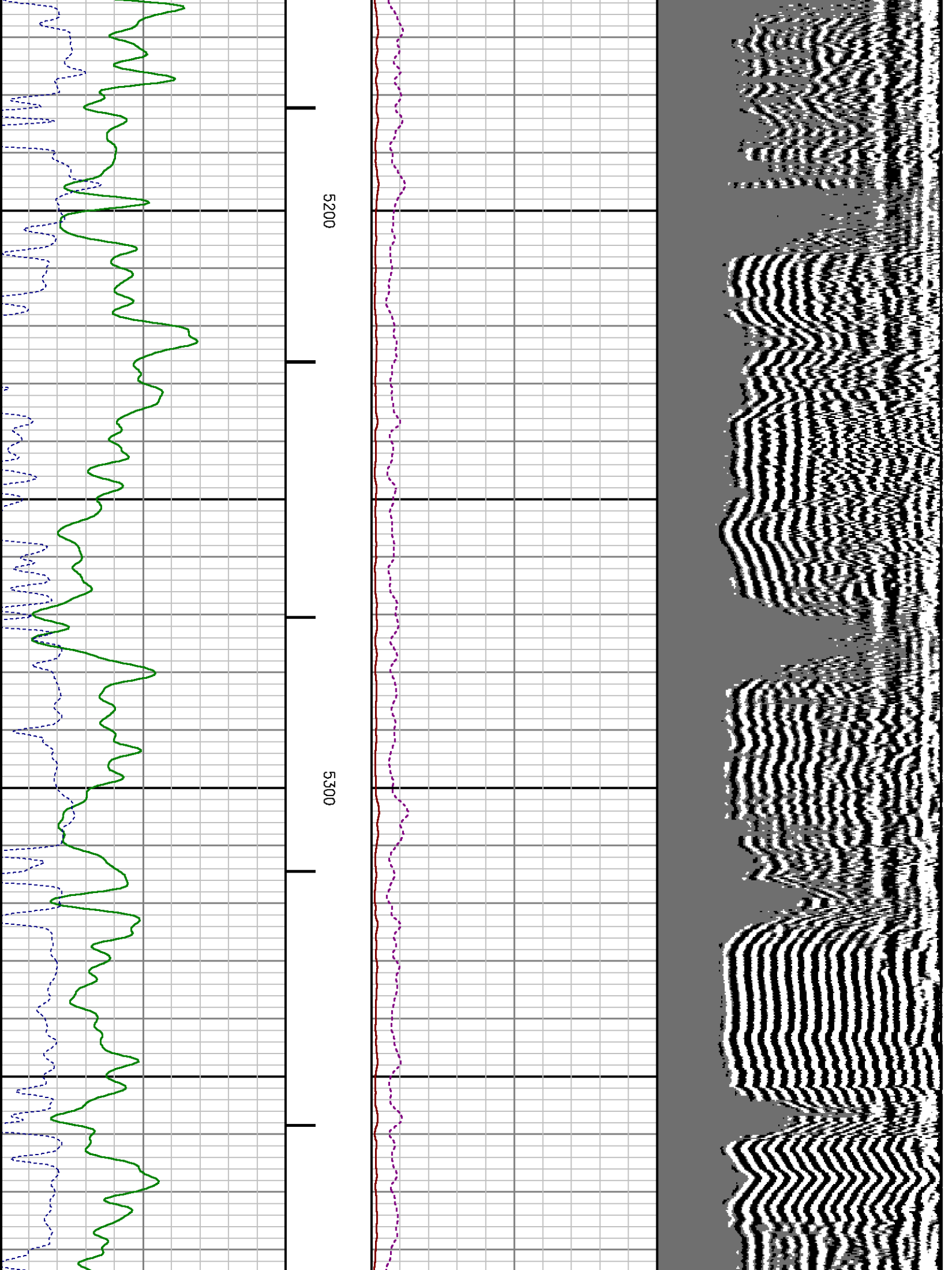


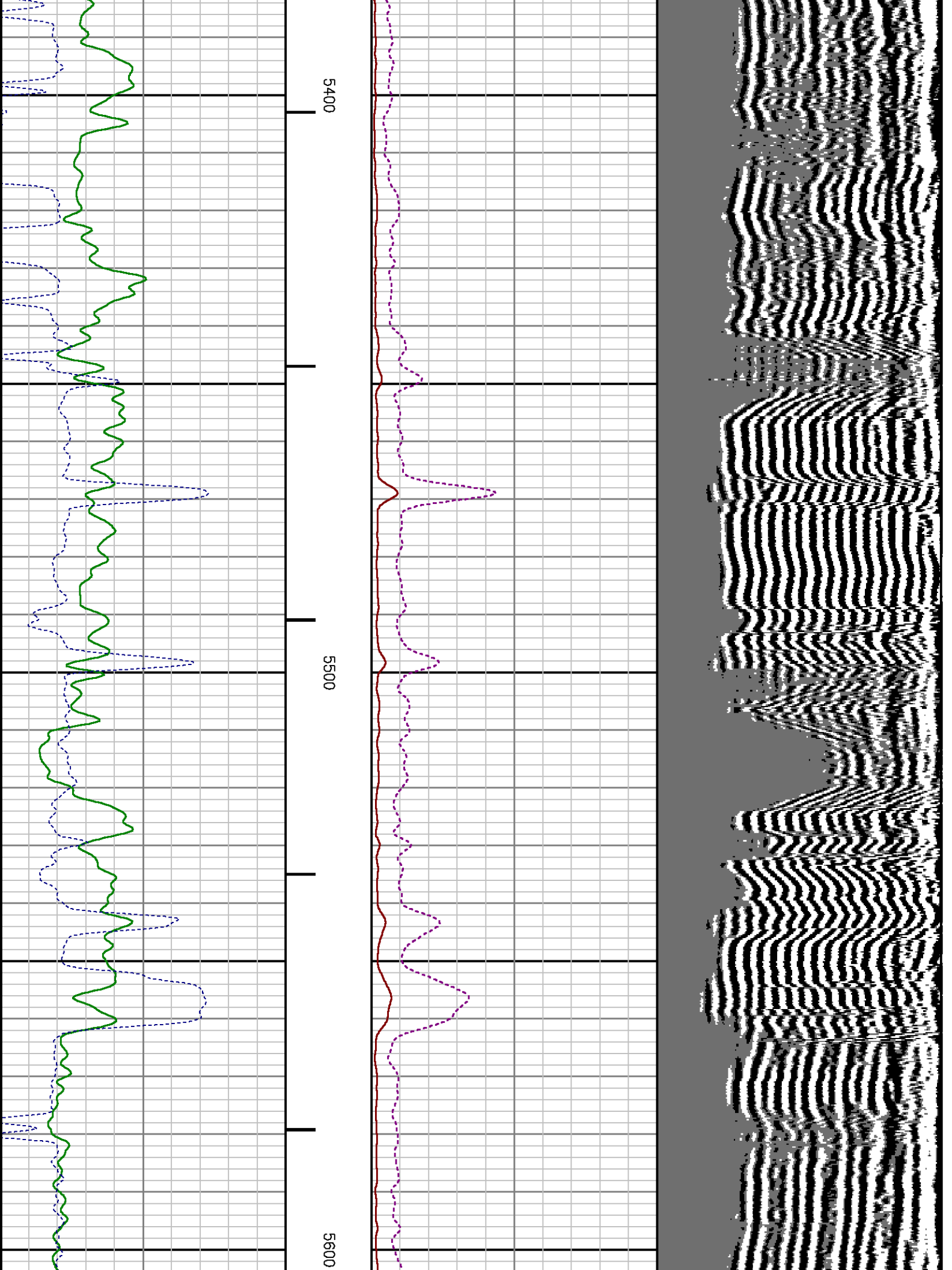


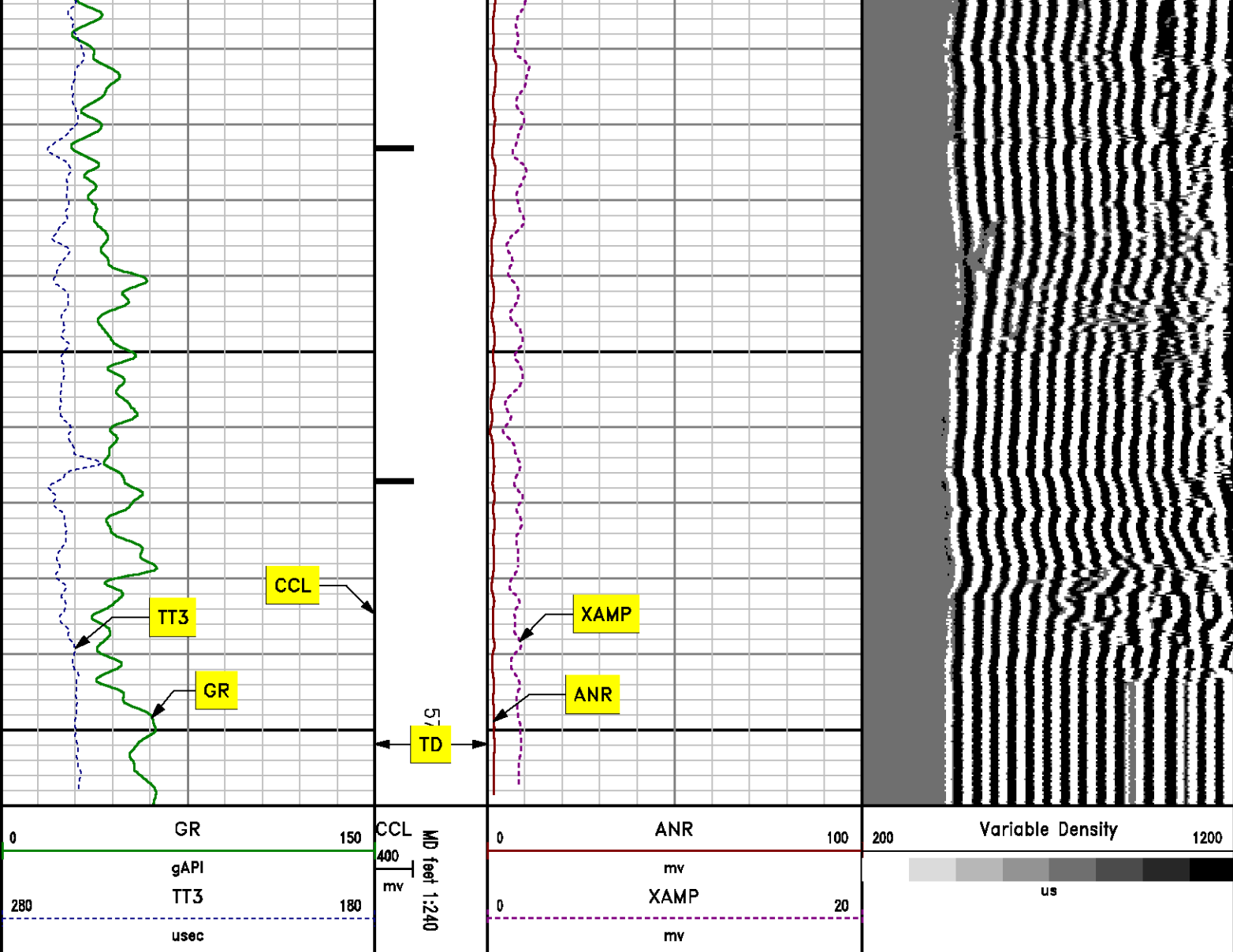












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DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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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					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

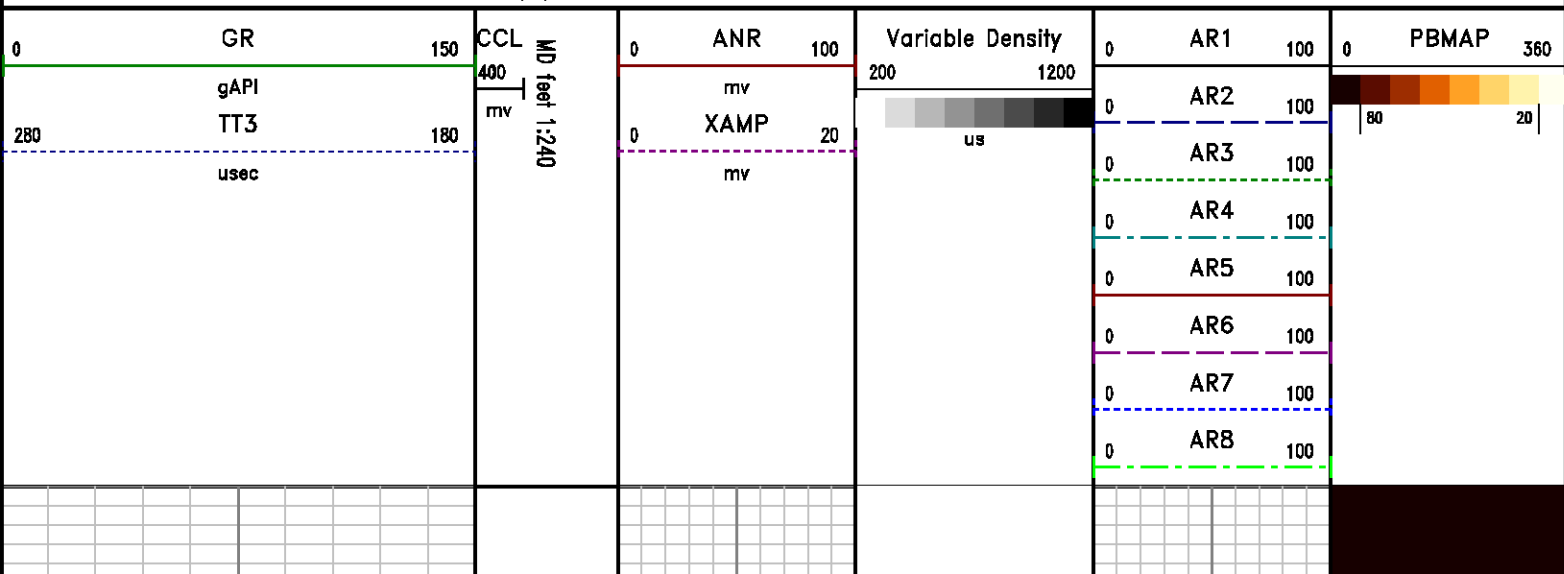
Well : STRAIT SG 341-22

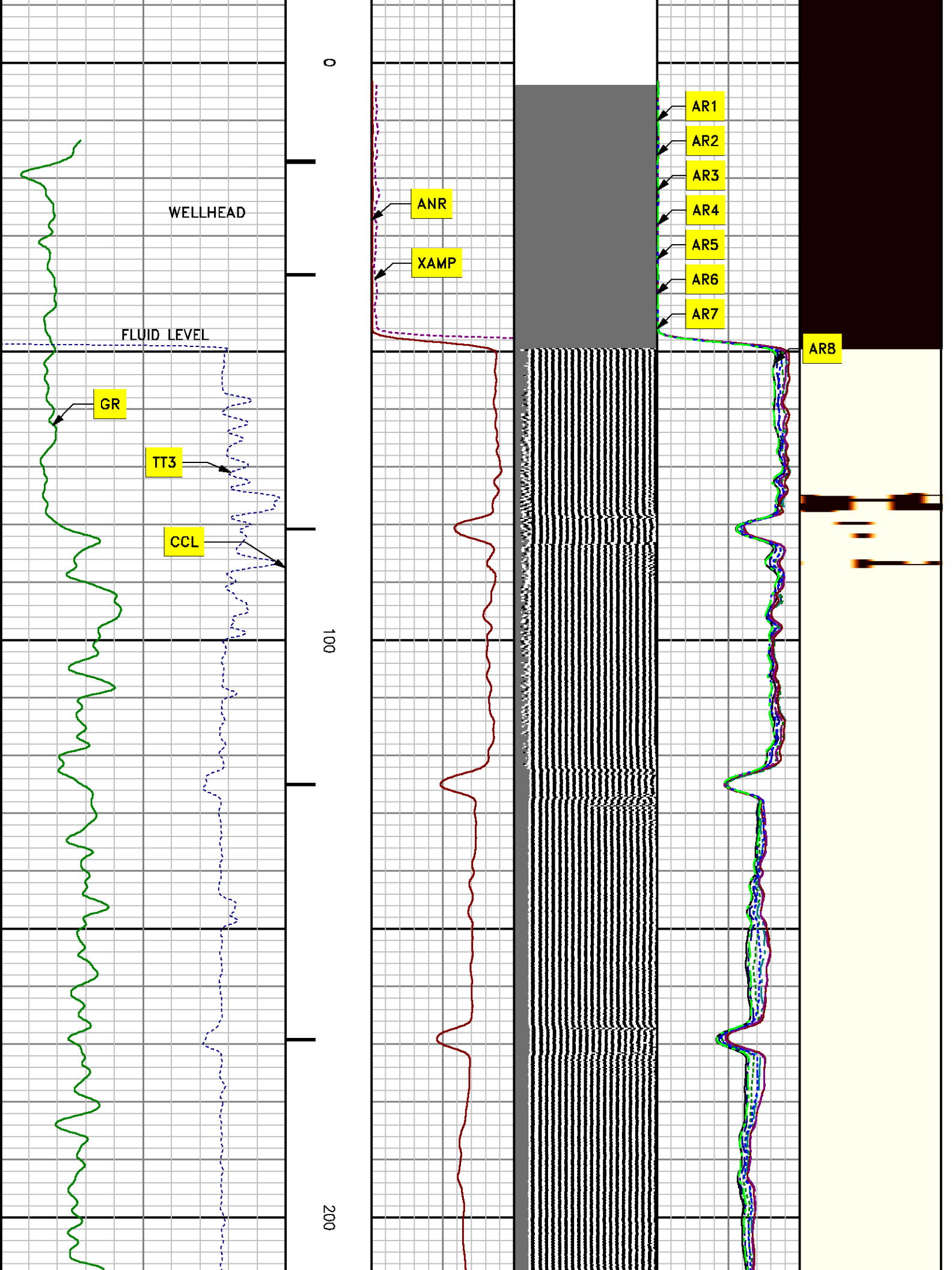
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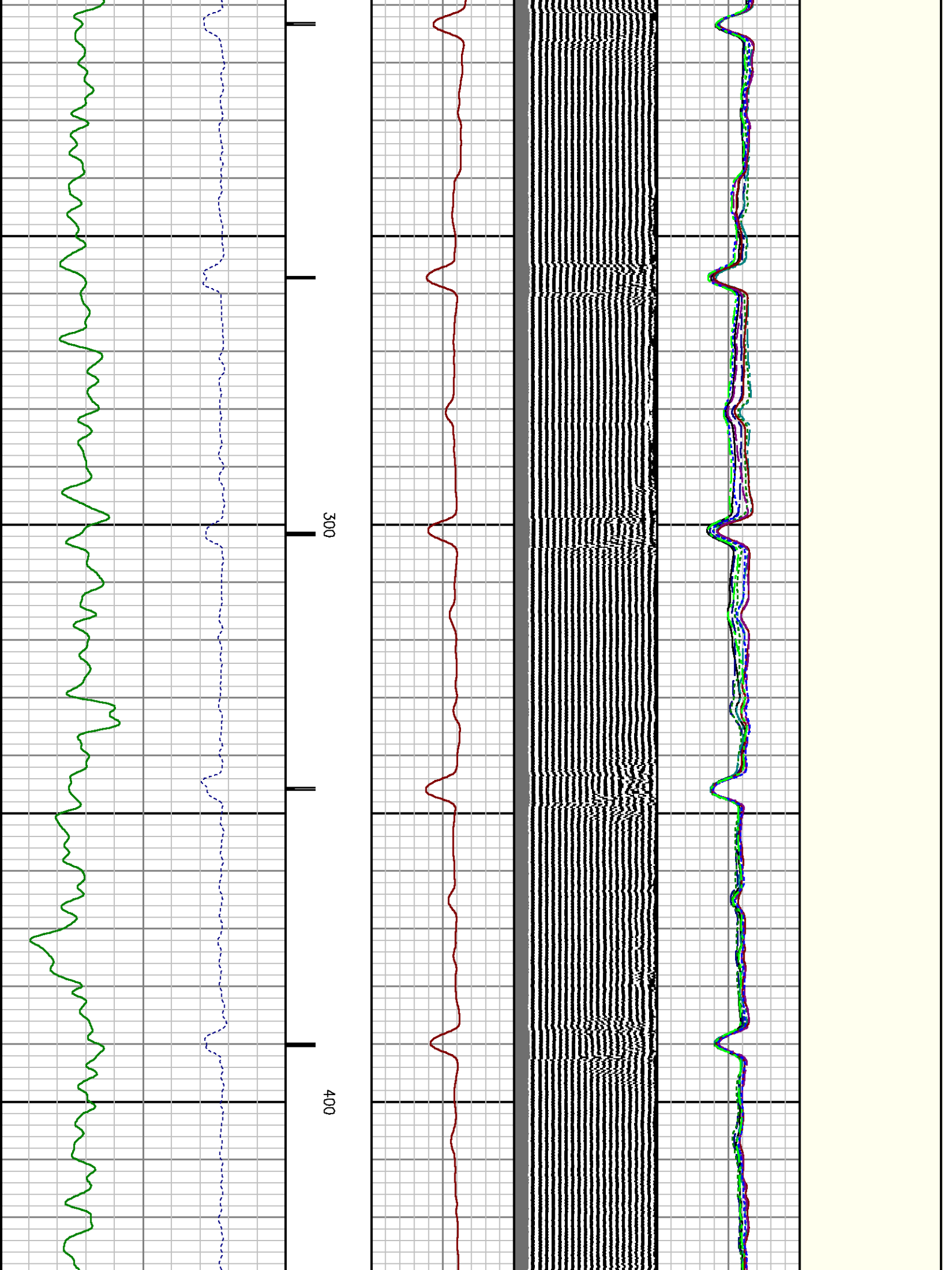
Mode : PlotMgr 5.4.504

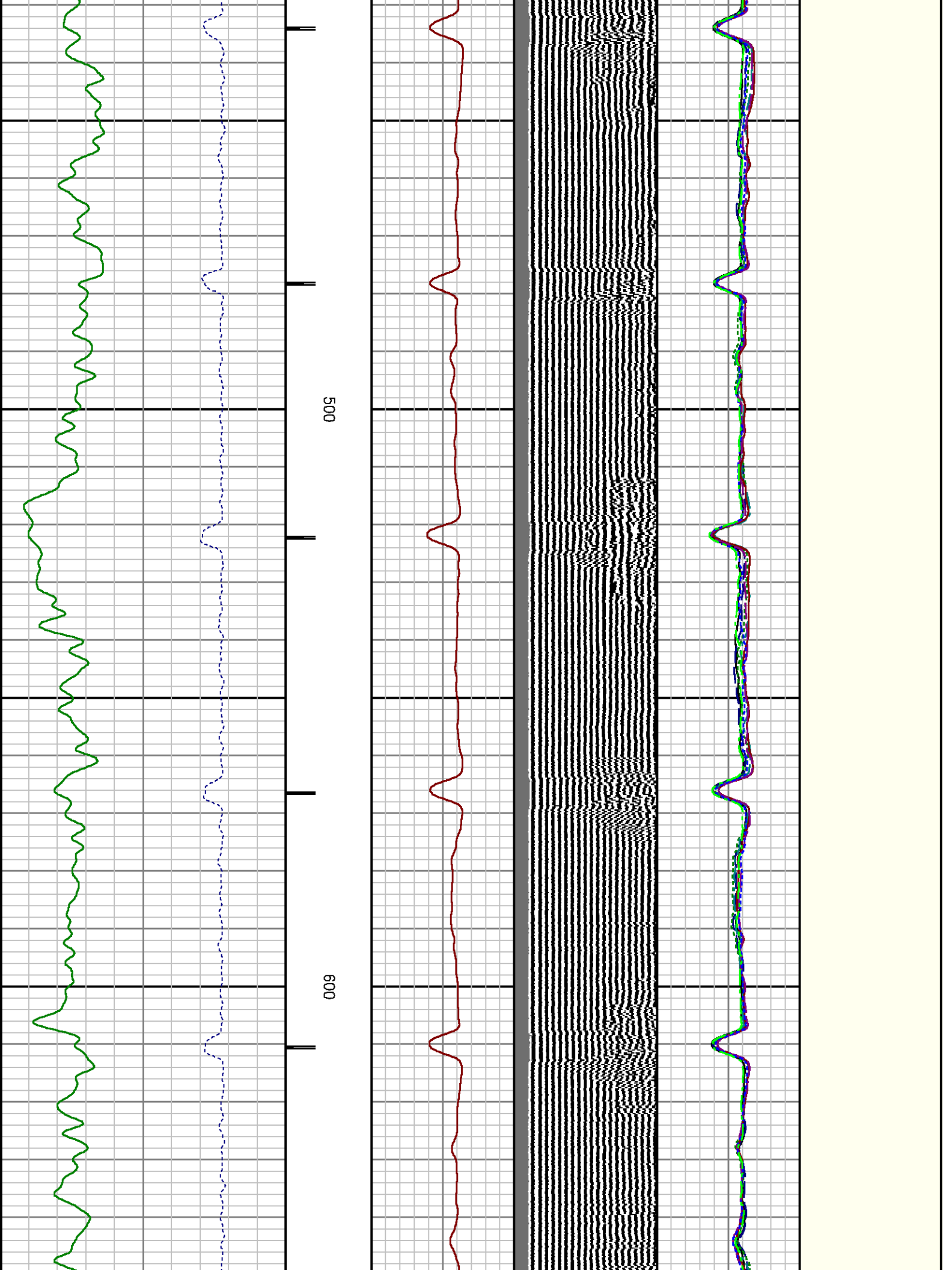
Interval : -20.00 - 5710.00 feet UP

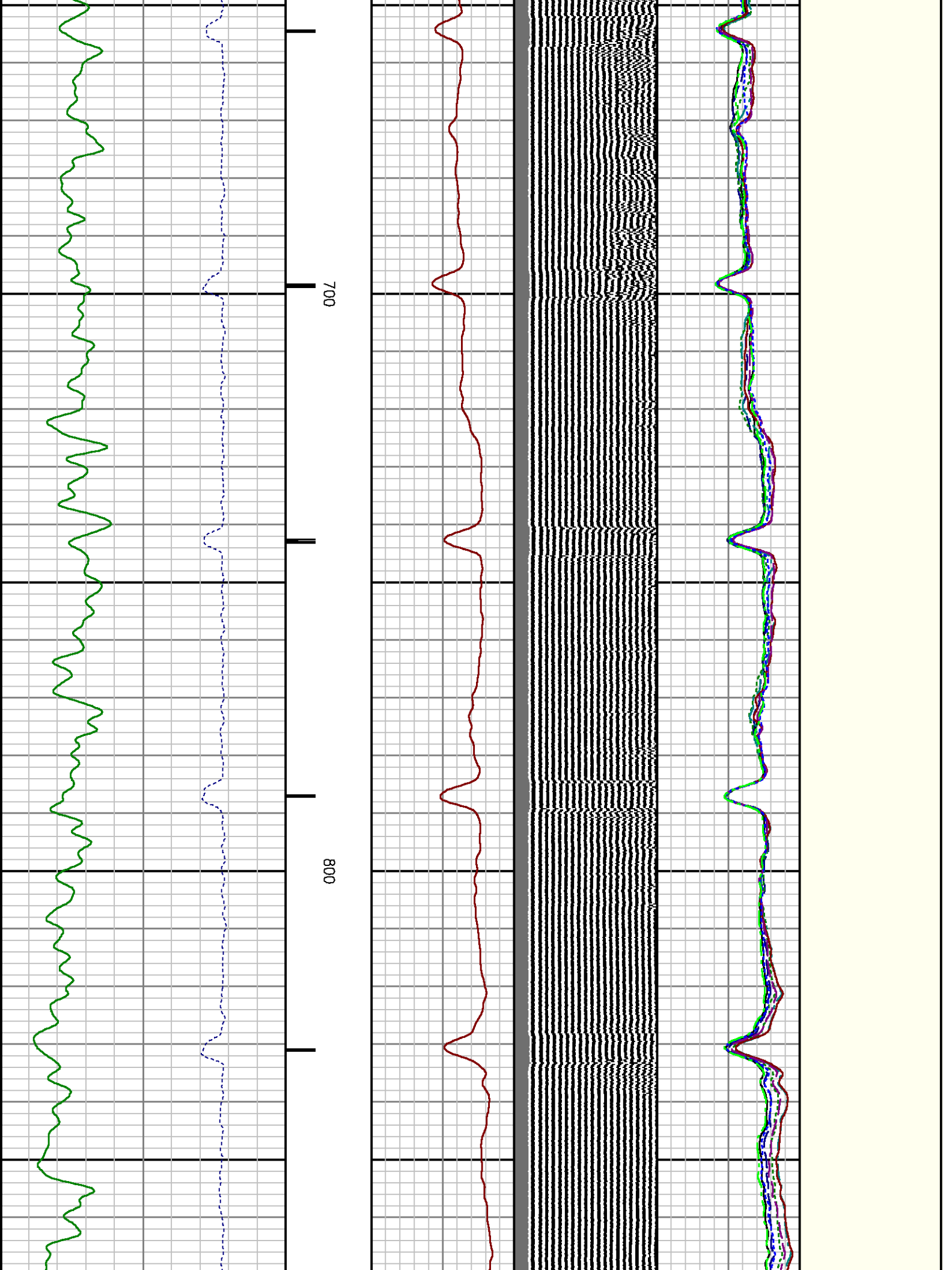
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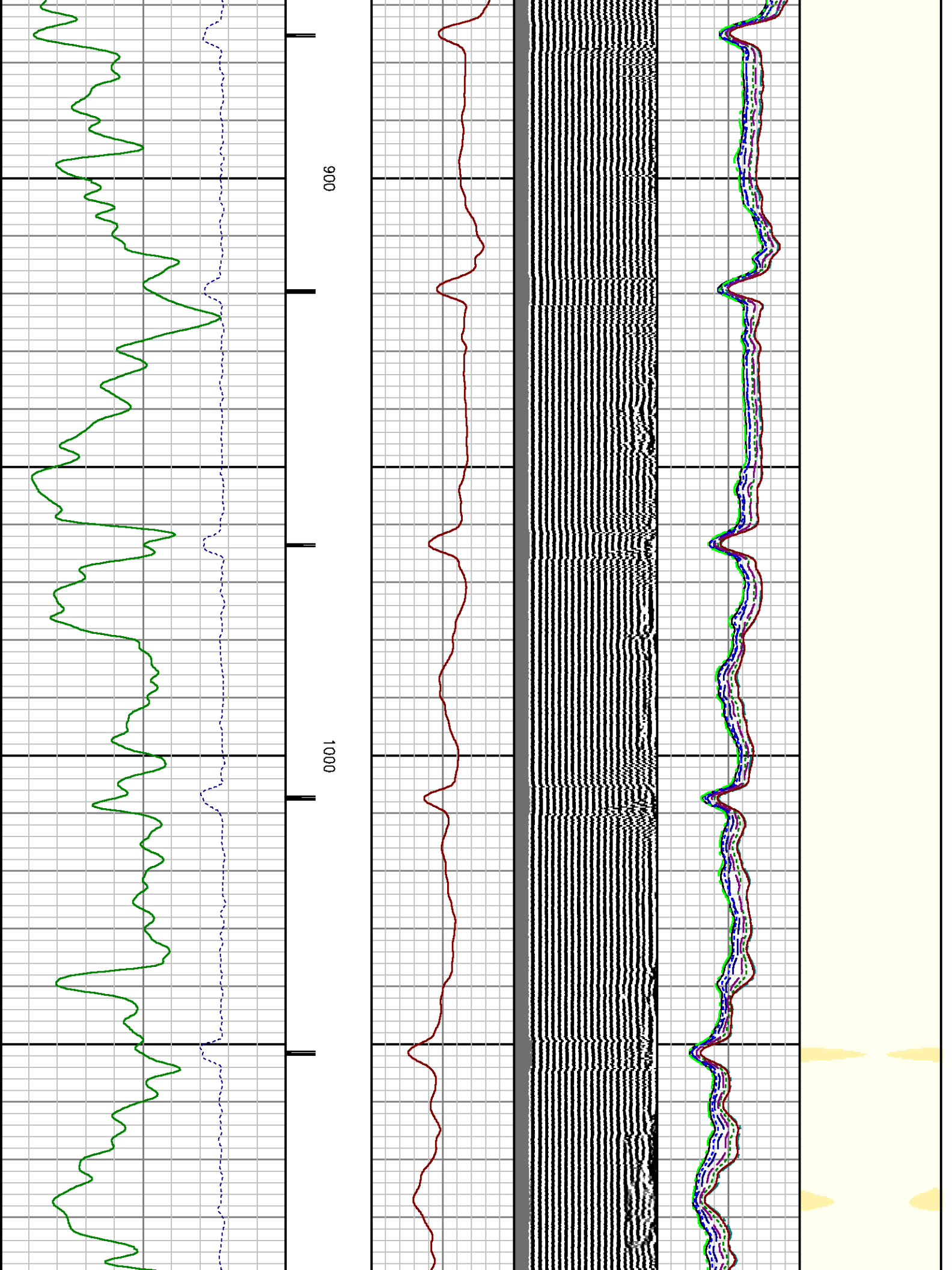


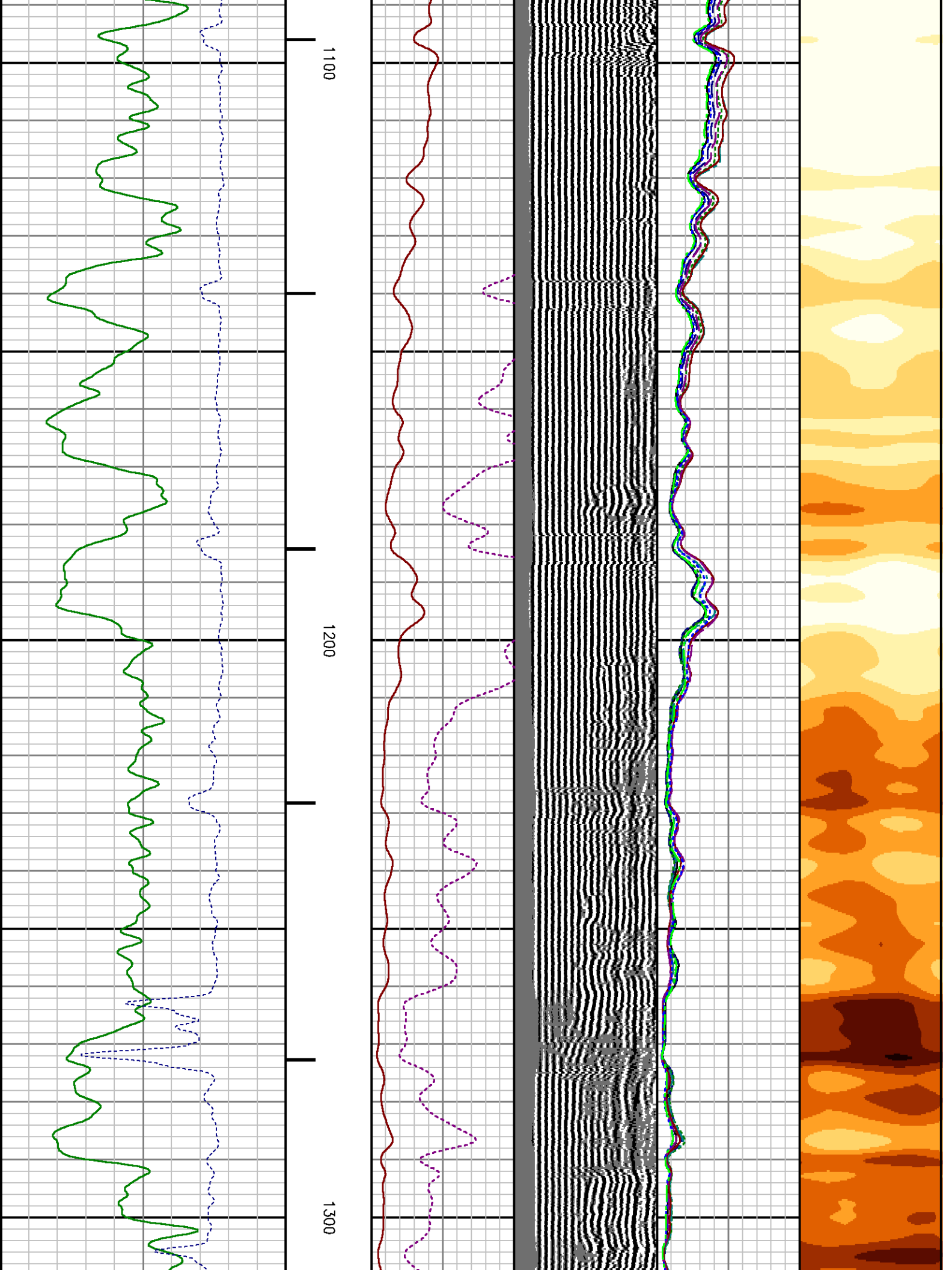


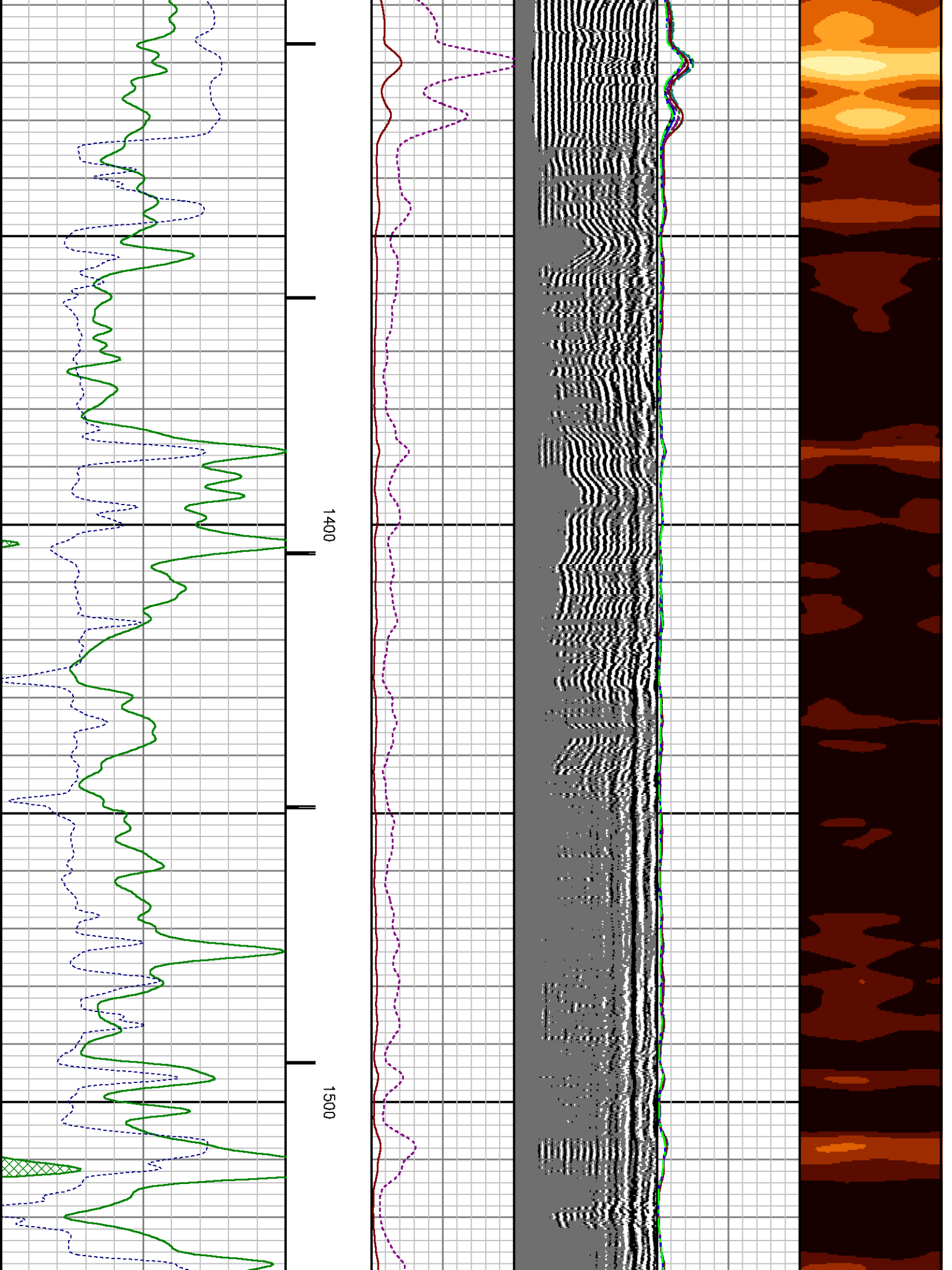


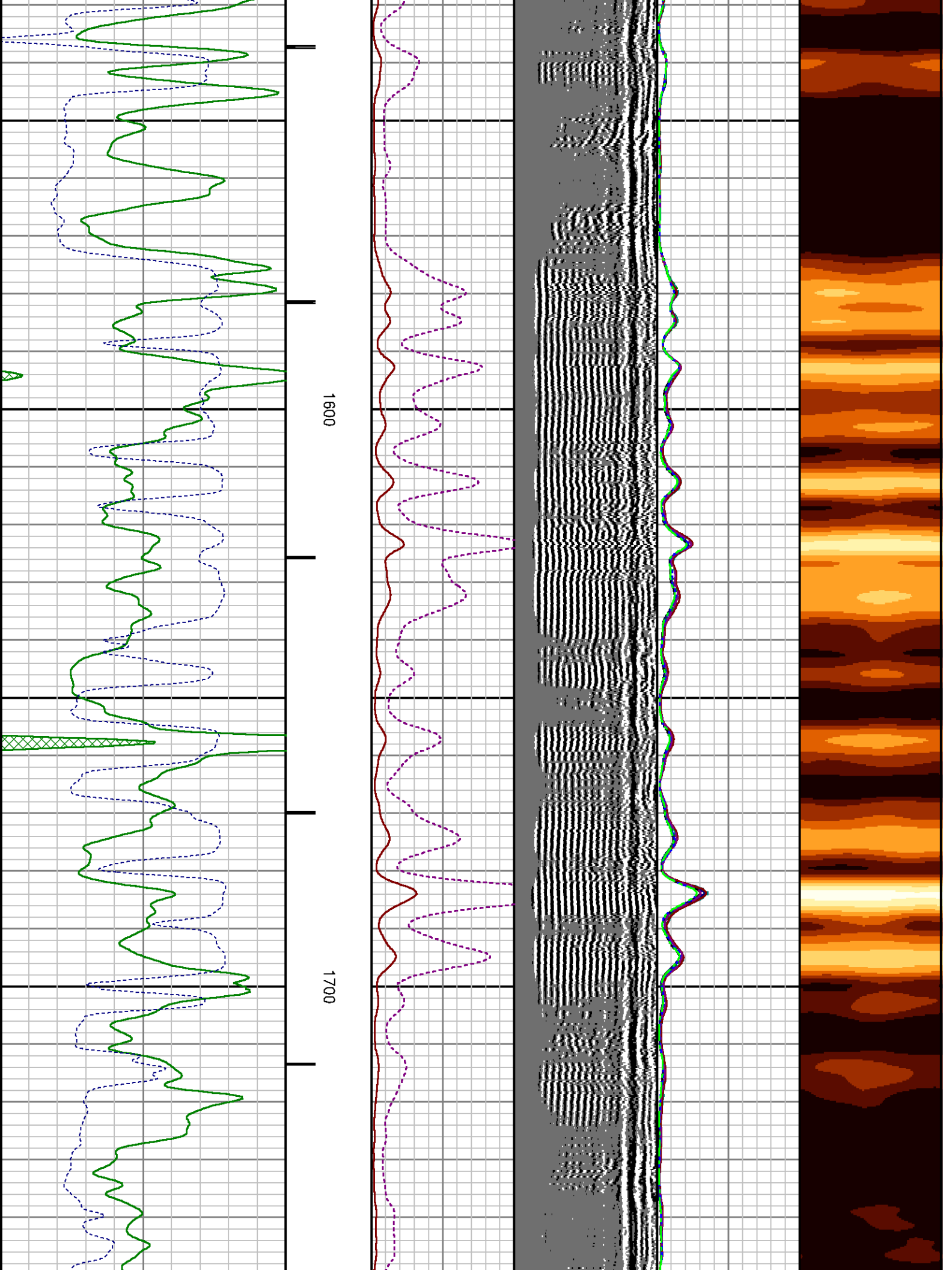


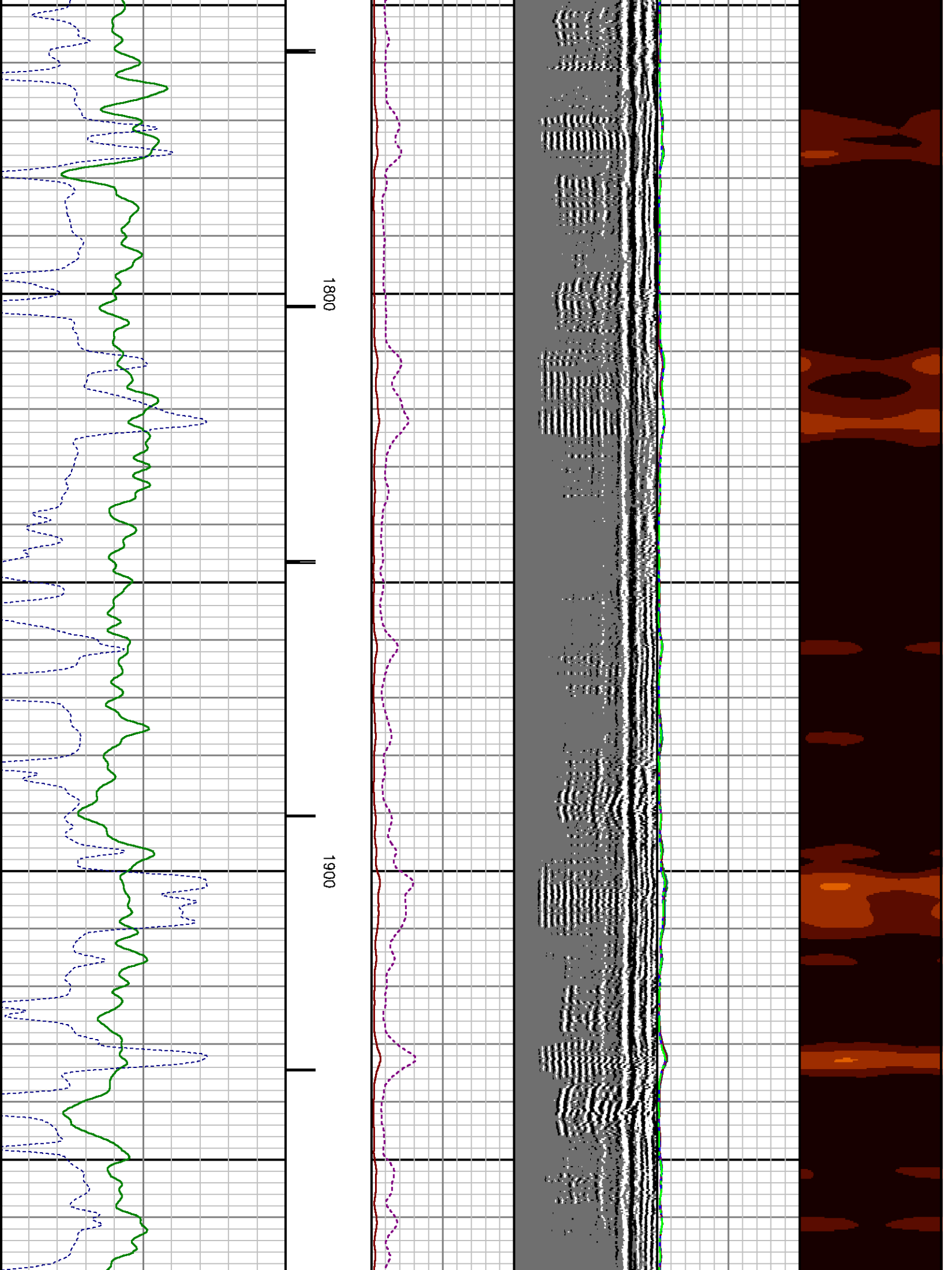


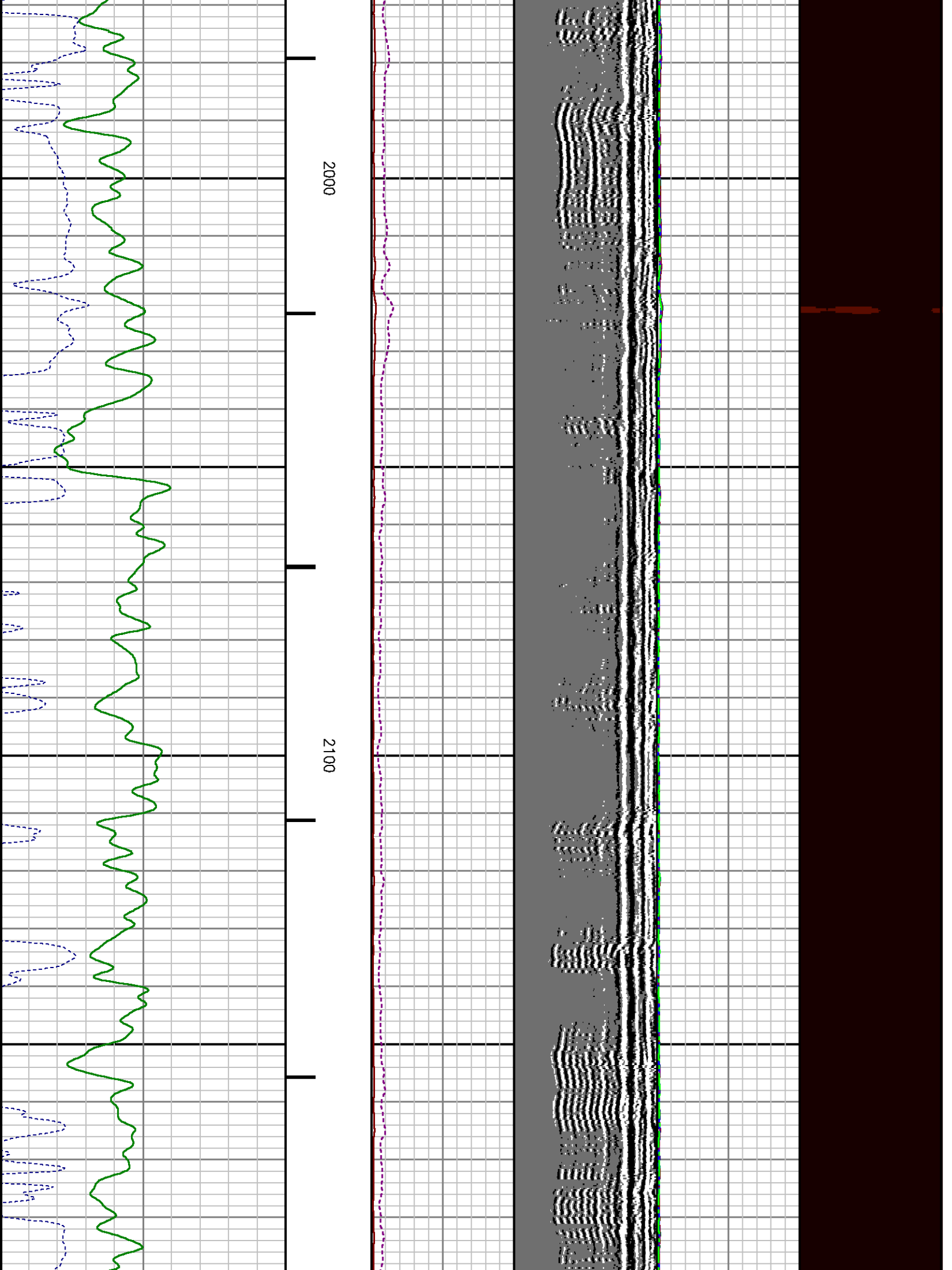


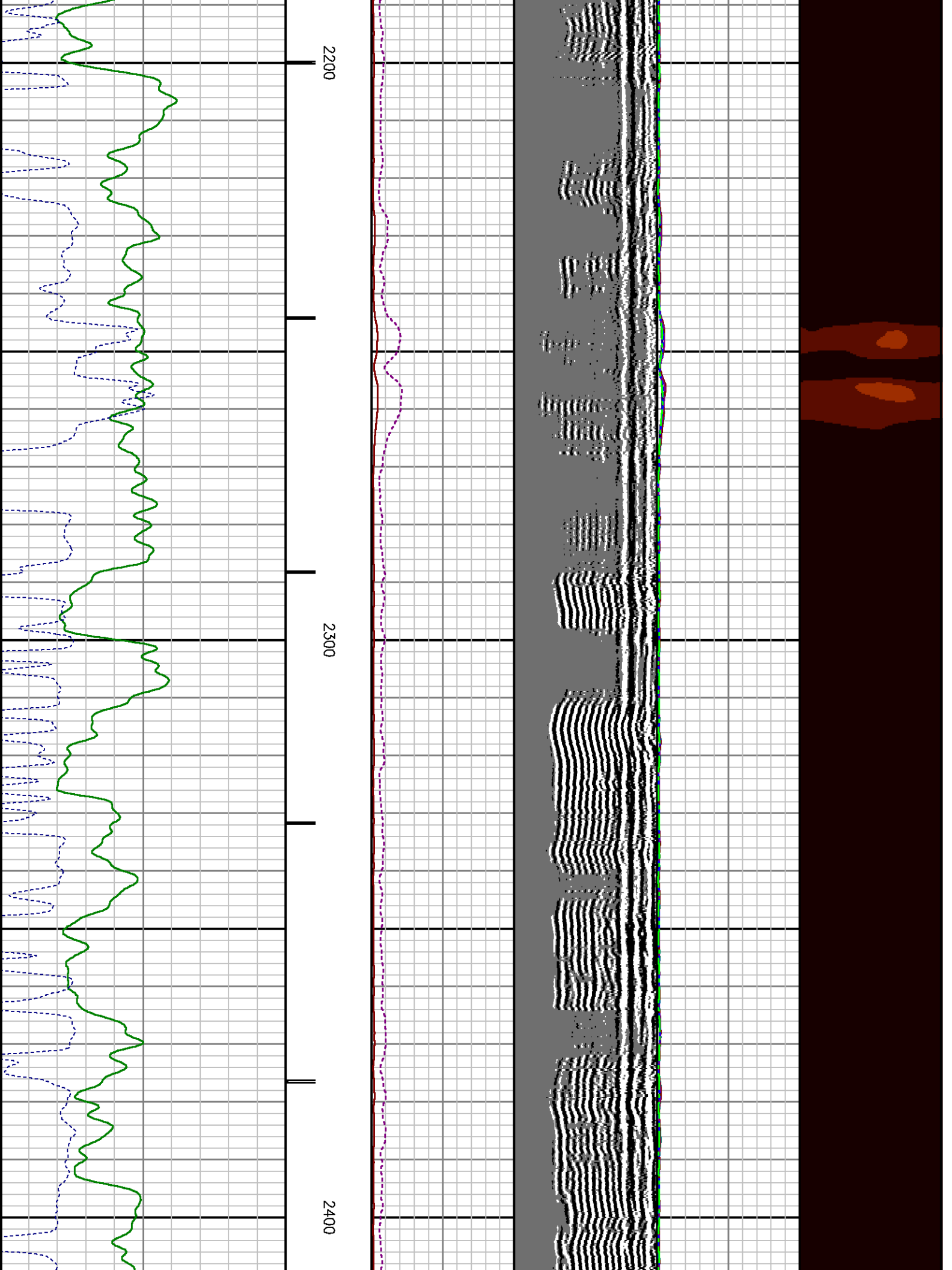


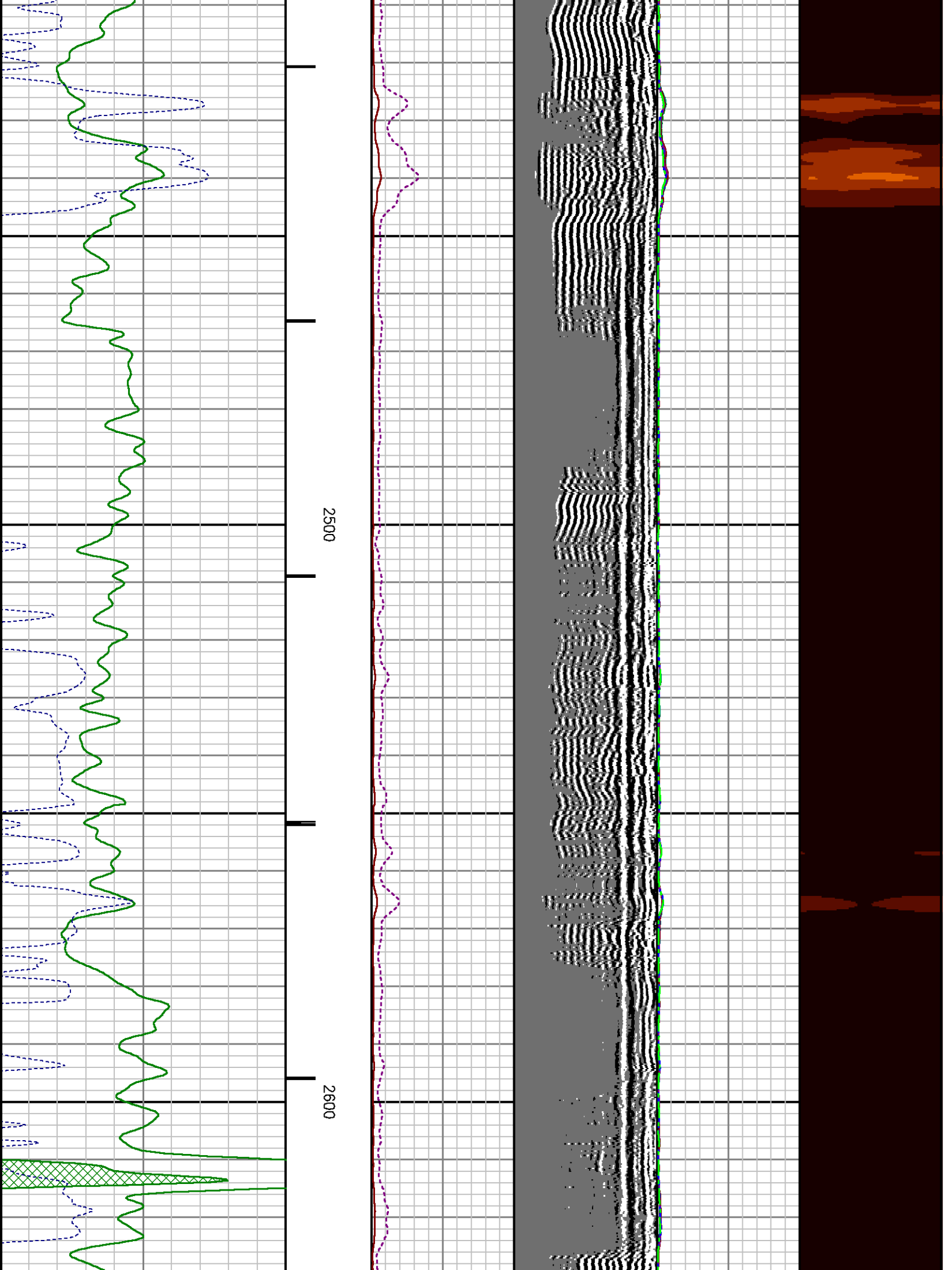


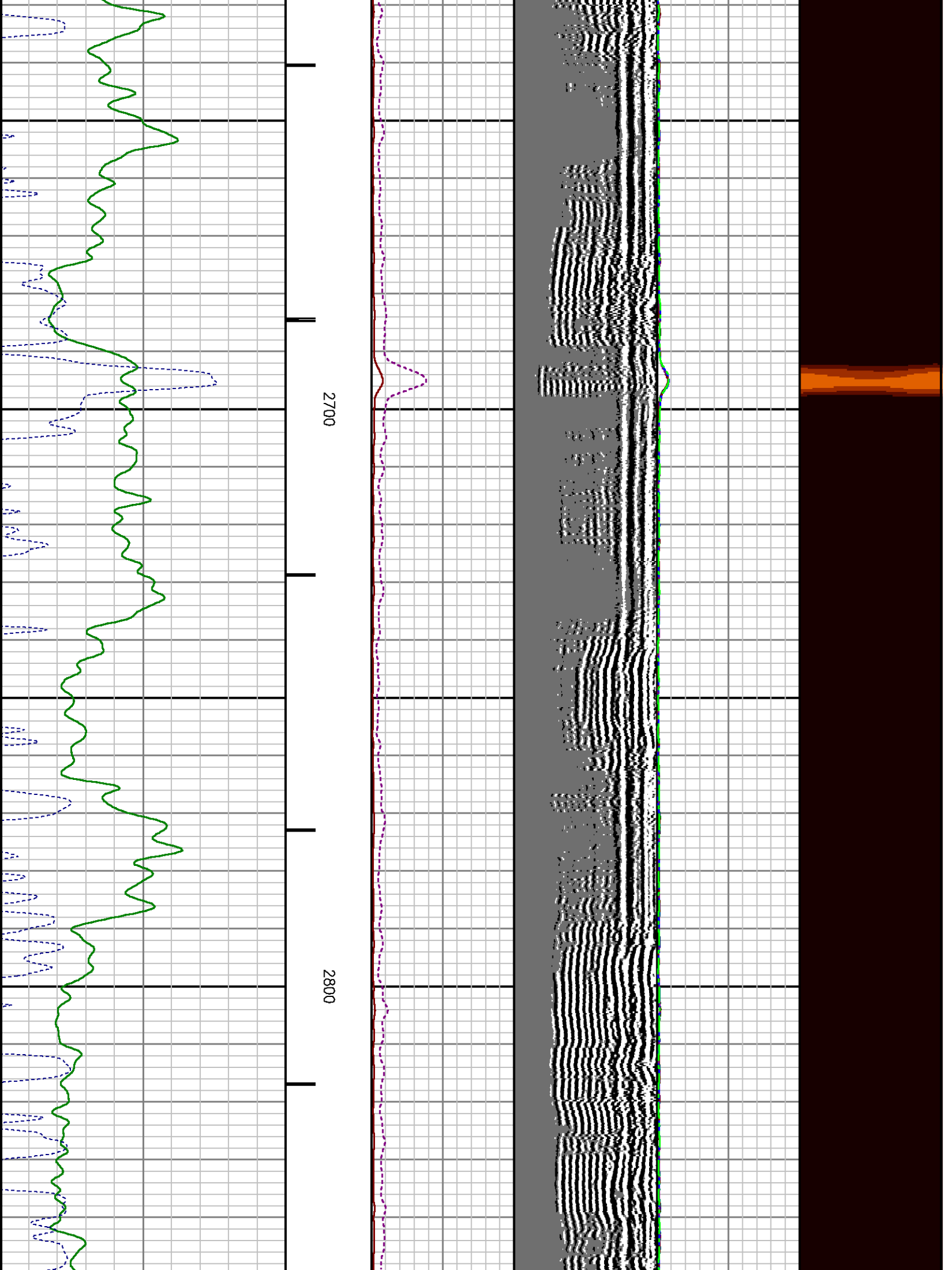


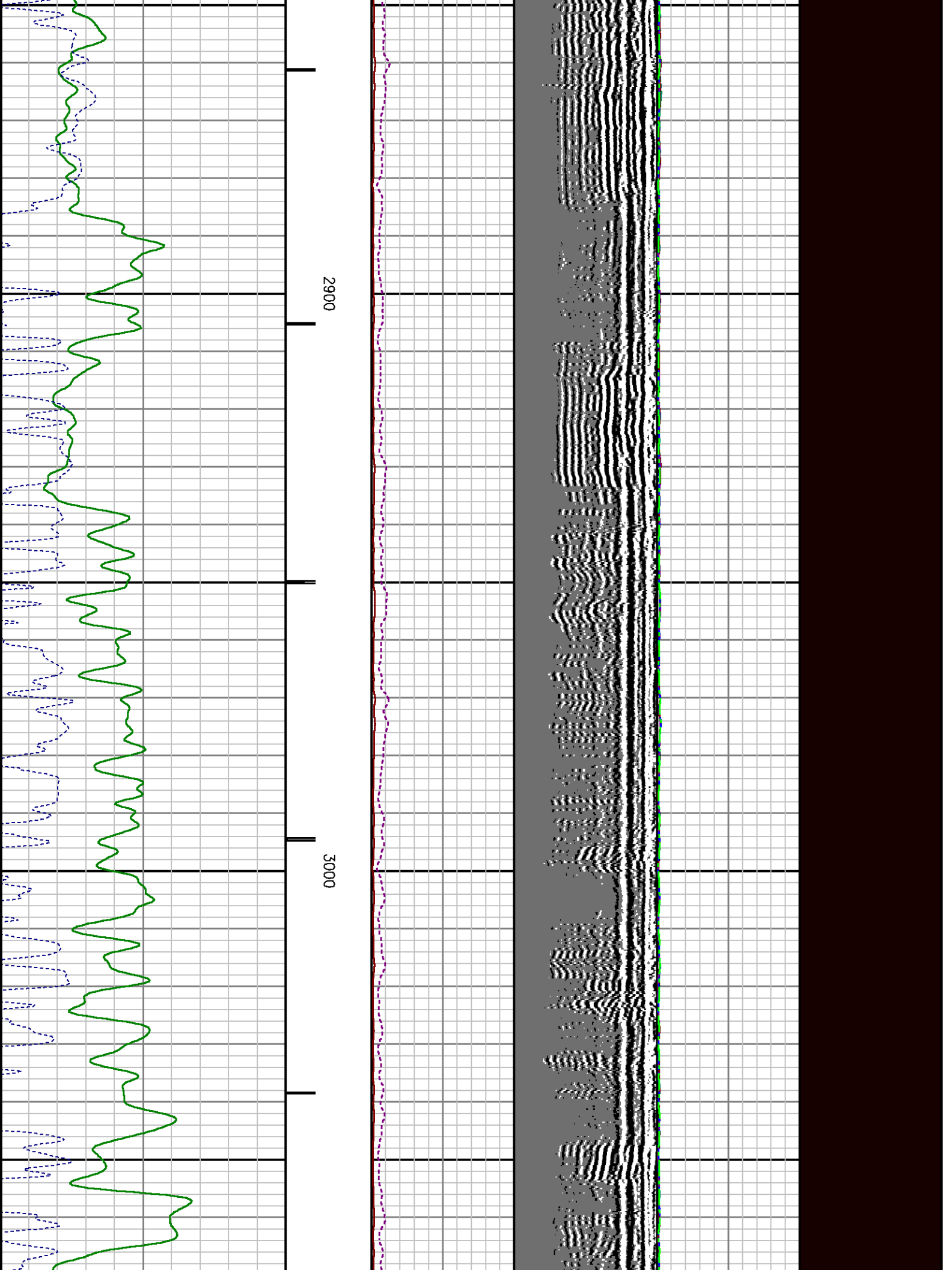


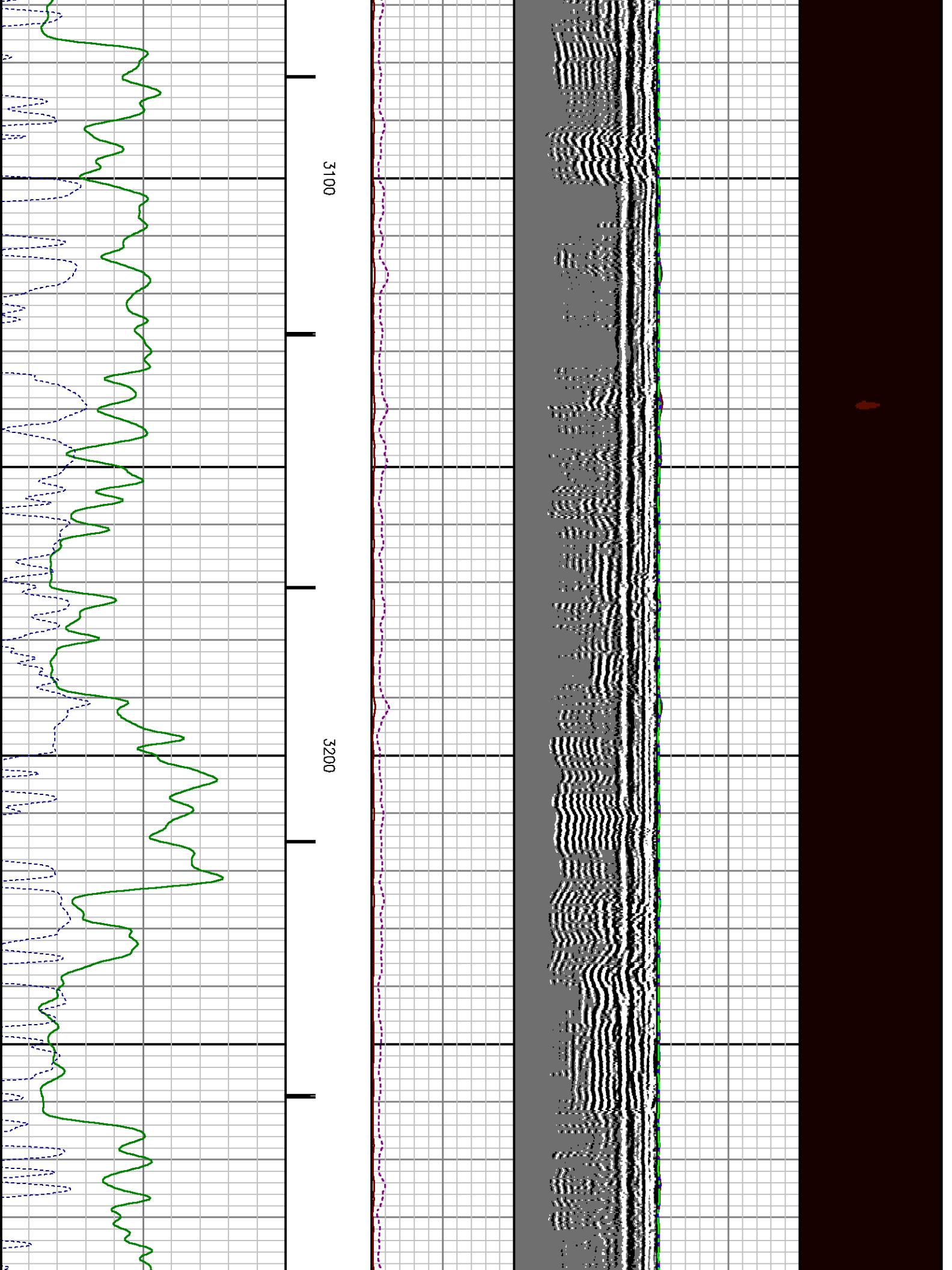


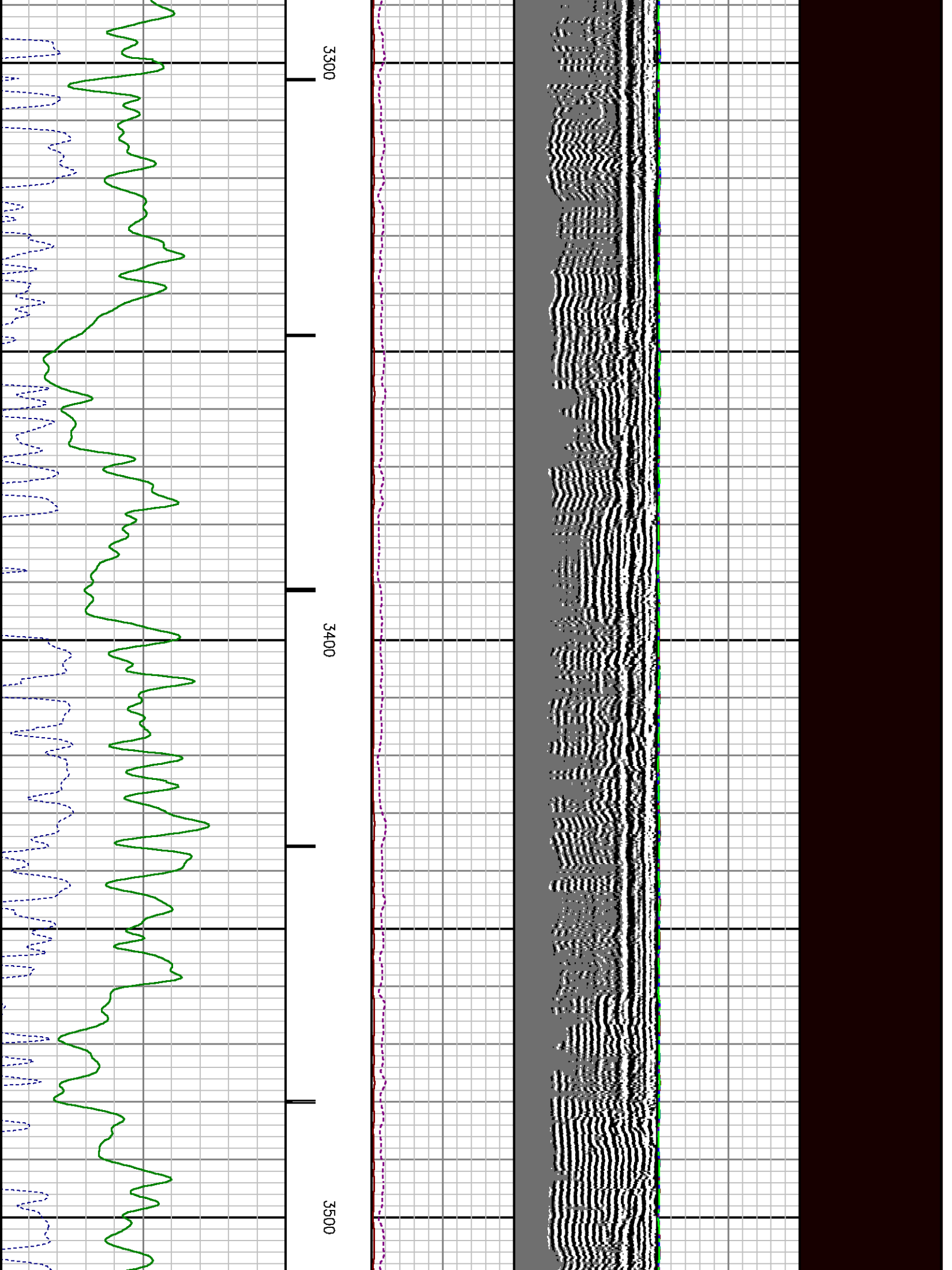


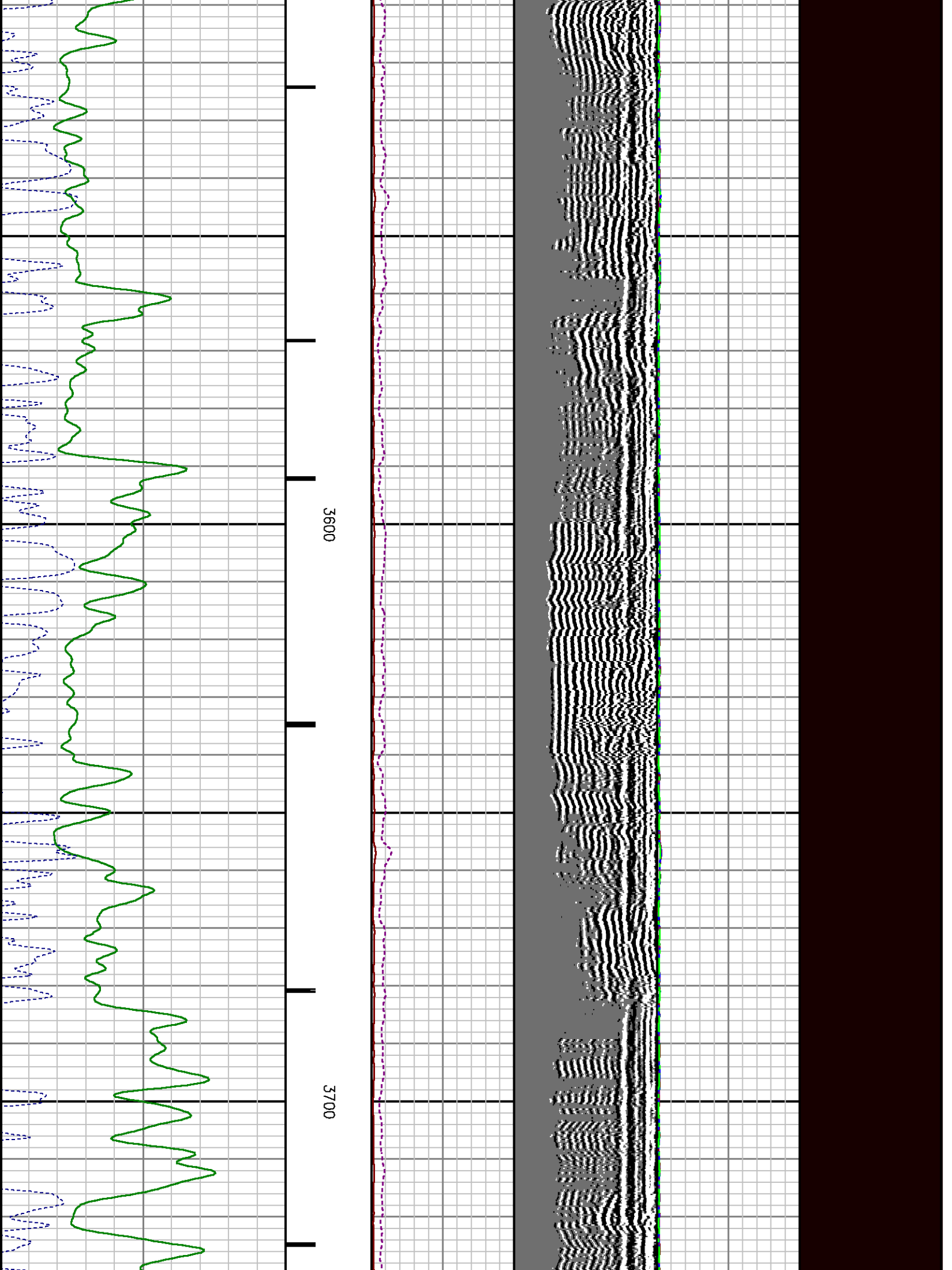


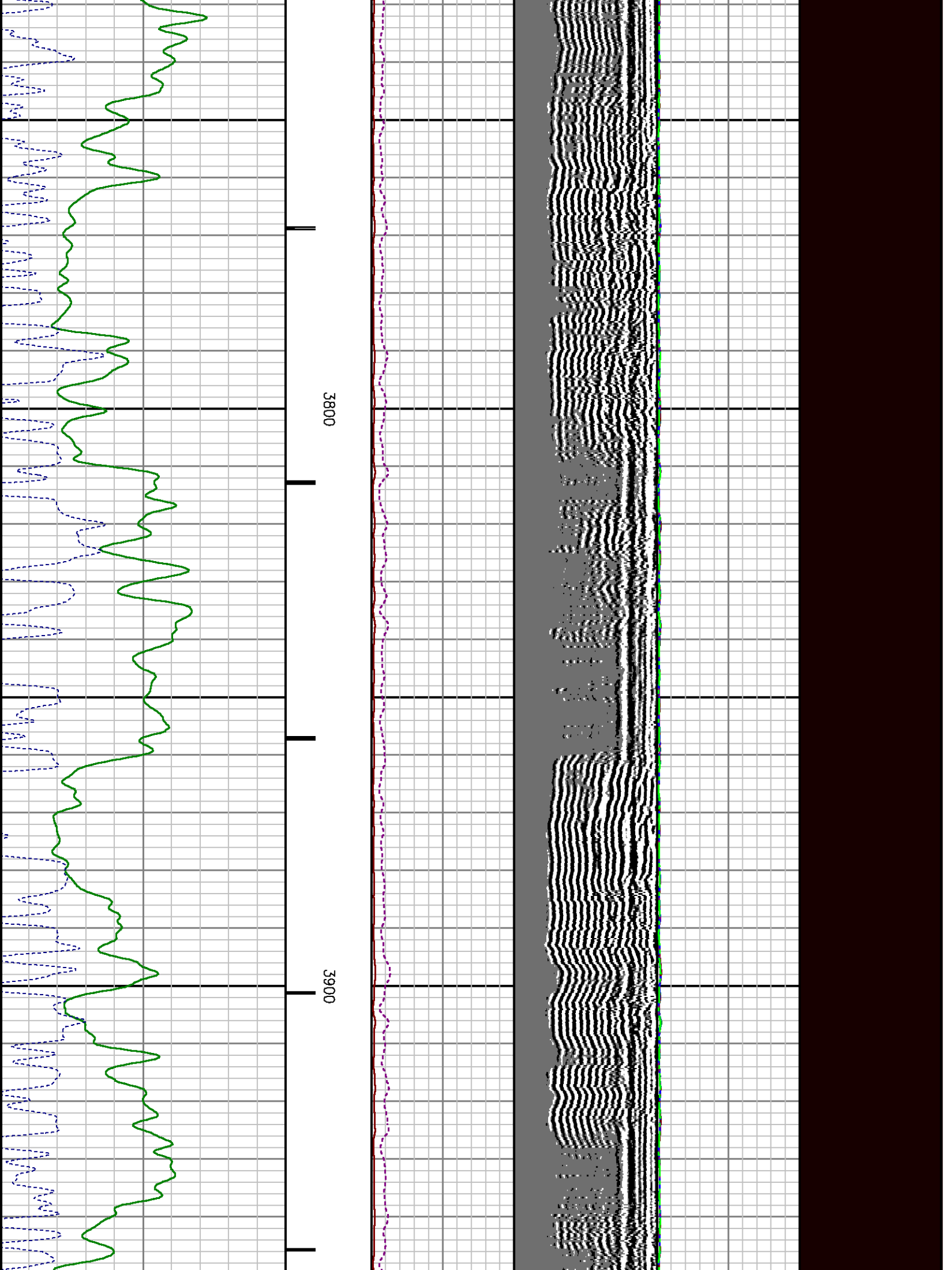


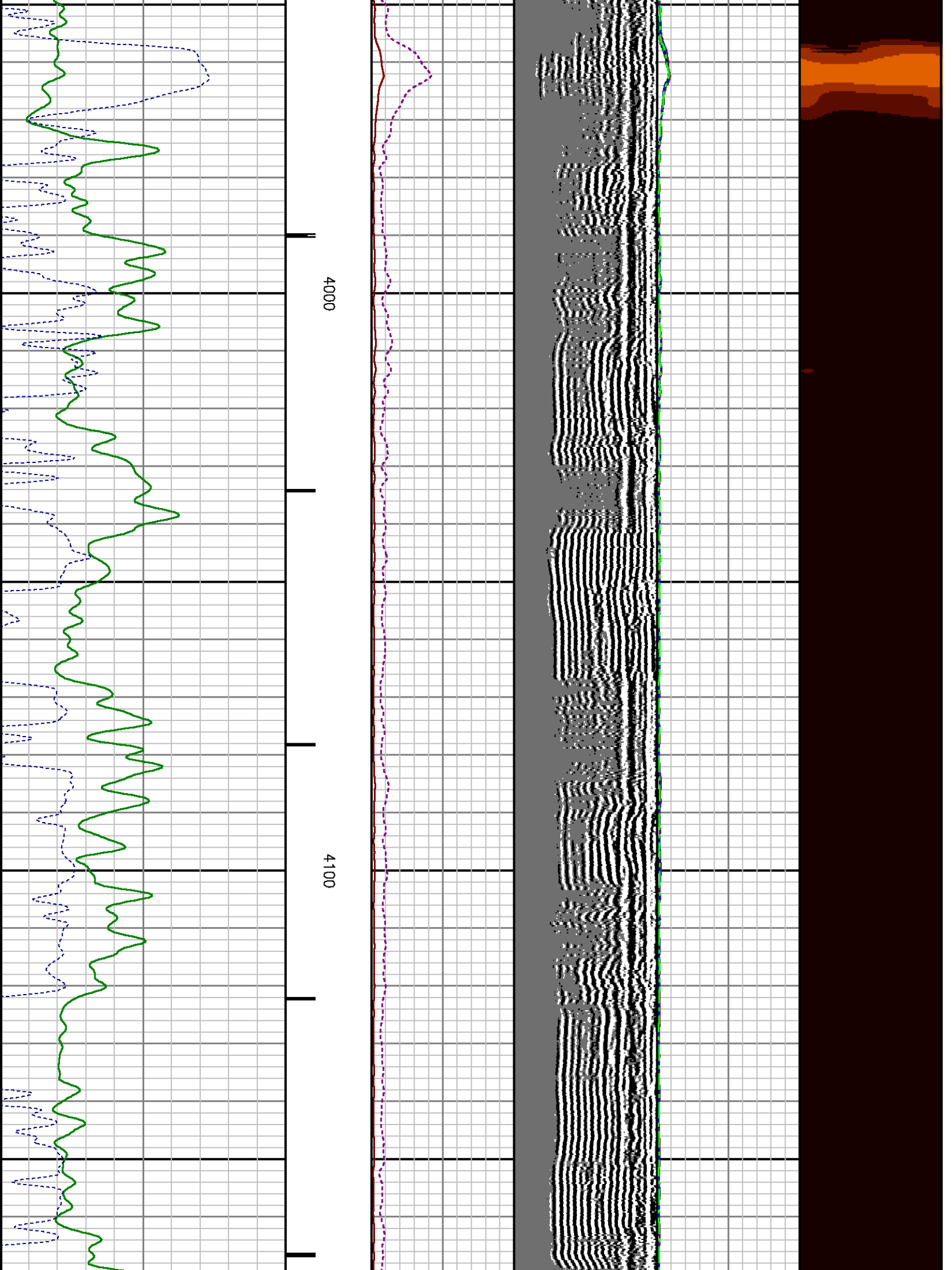


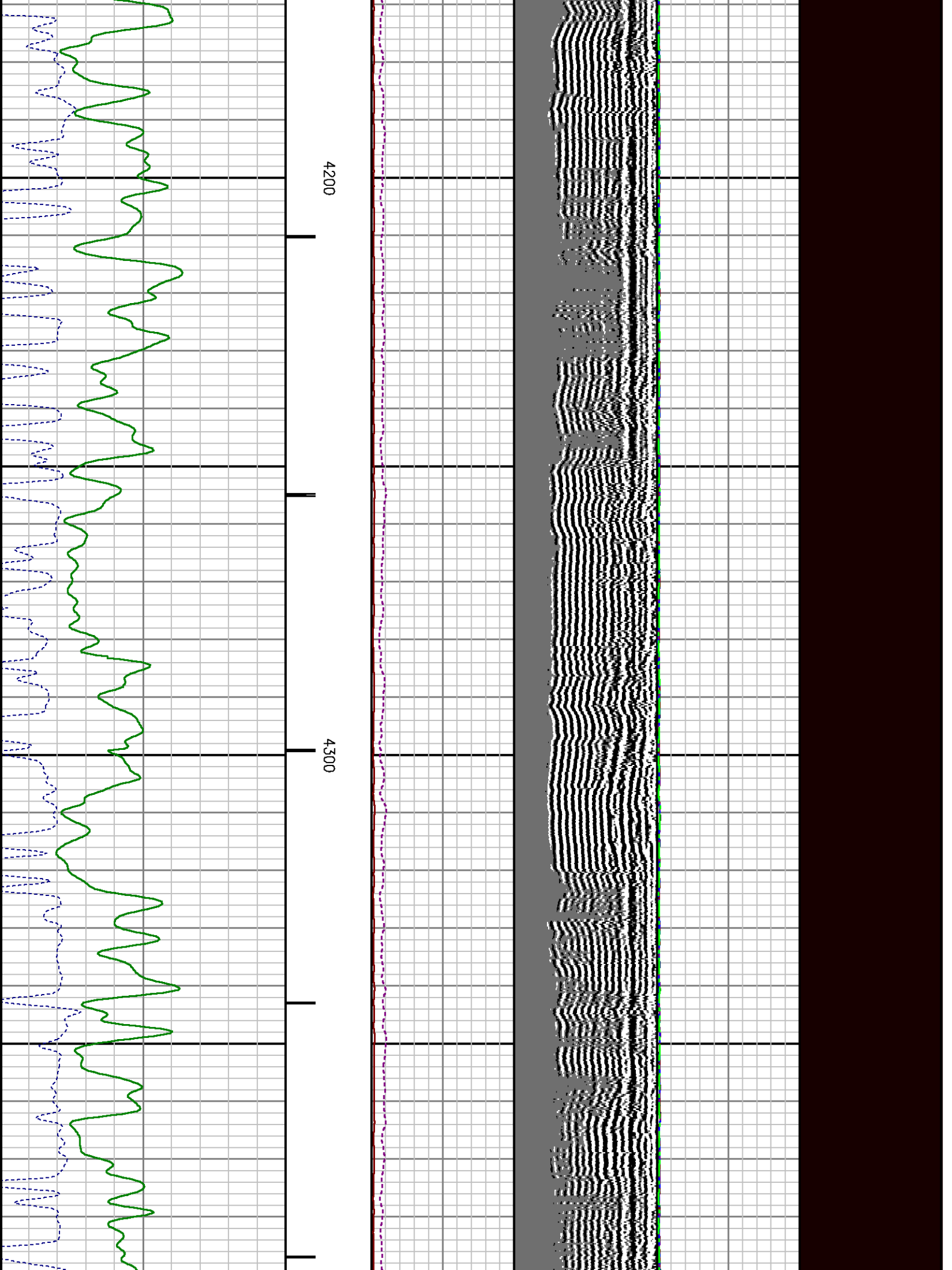


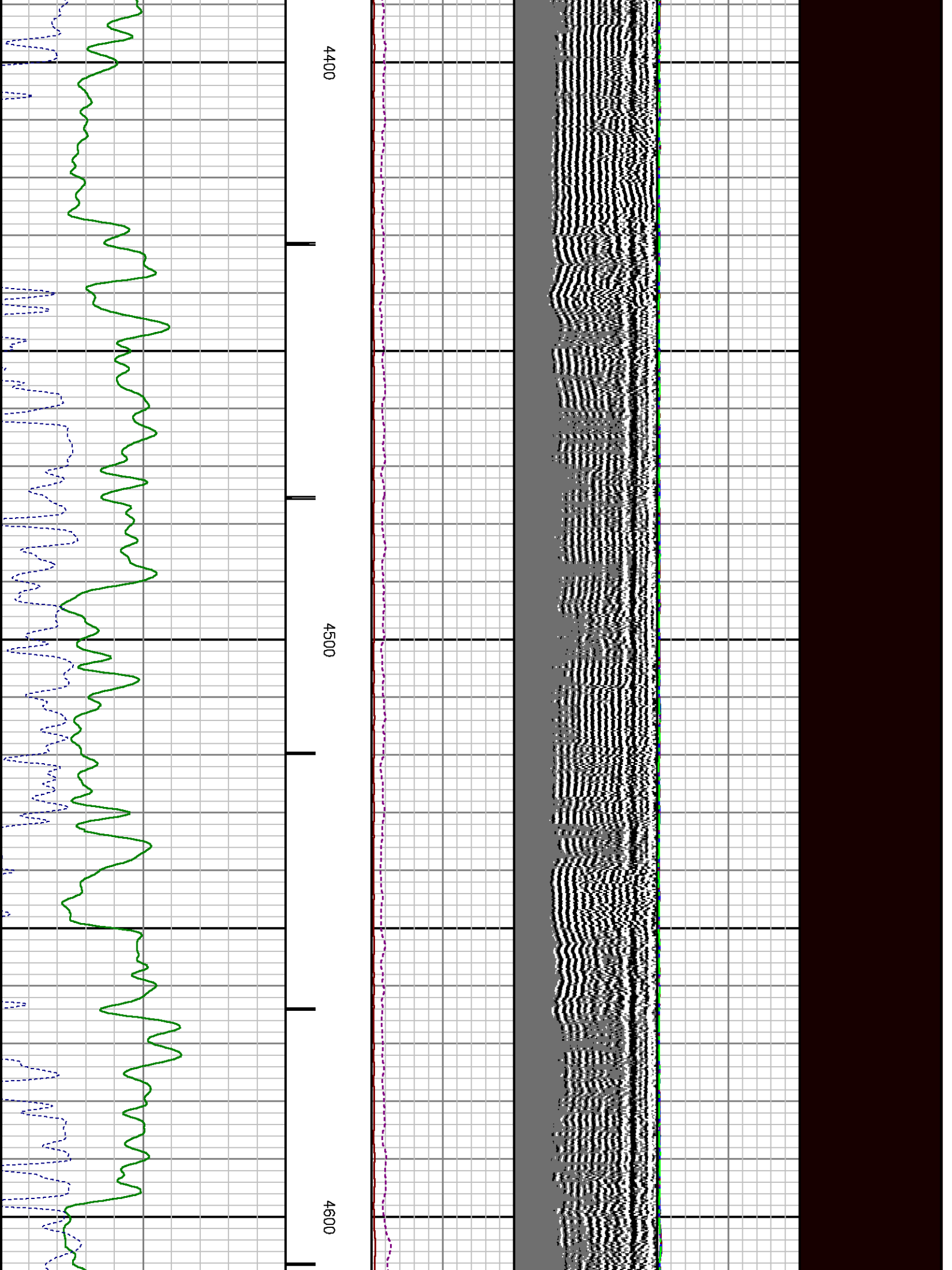


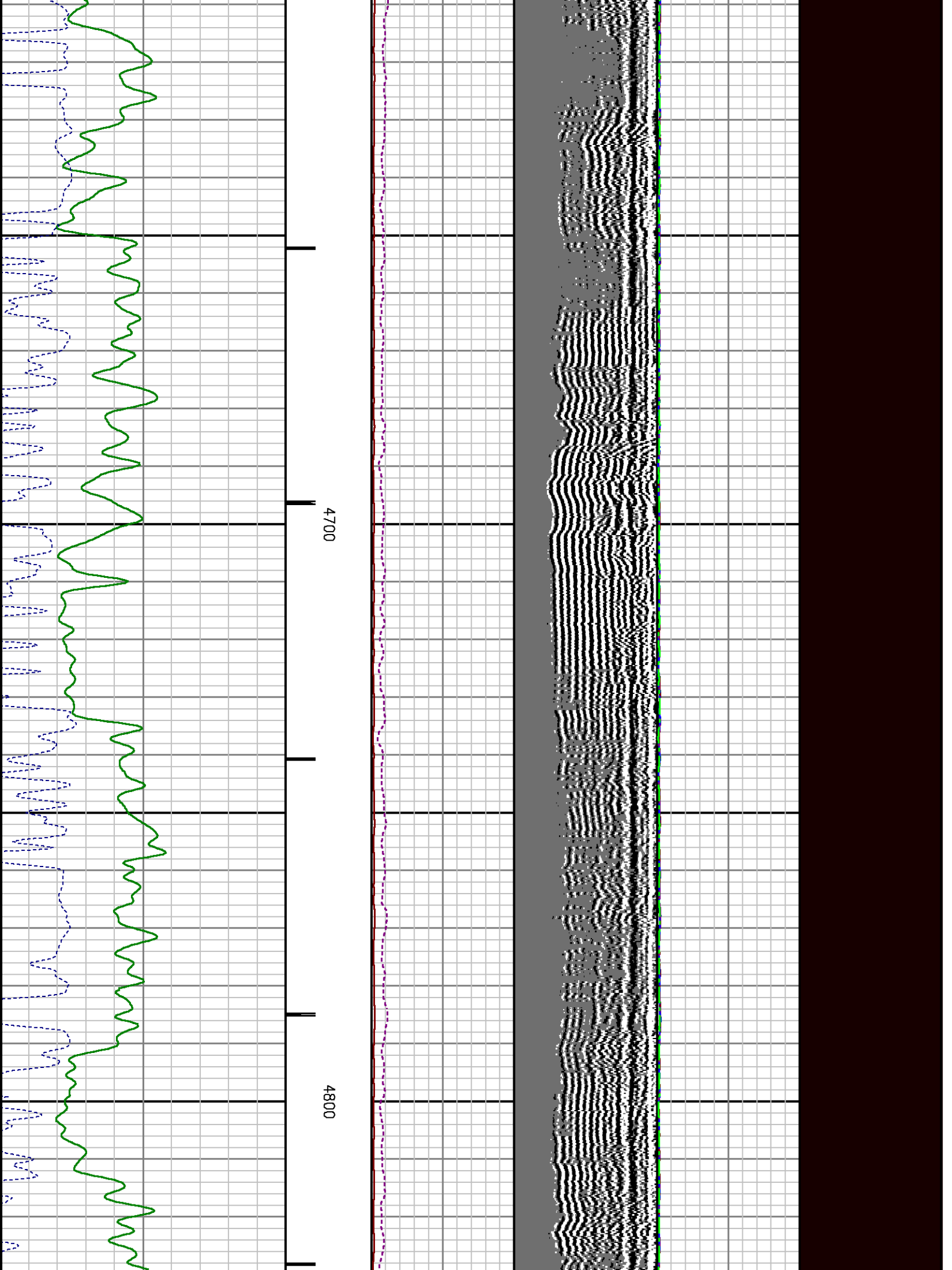


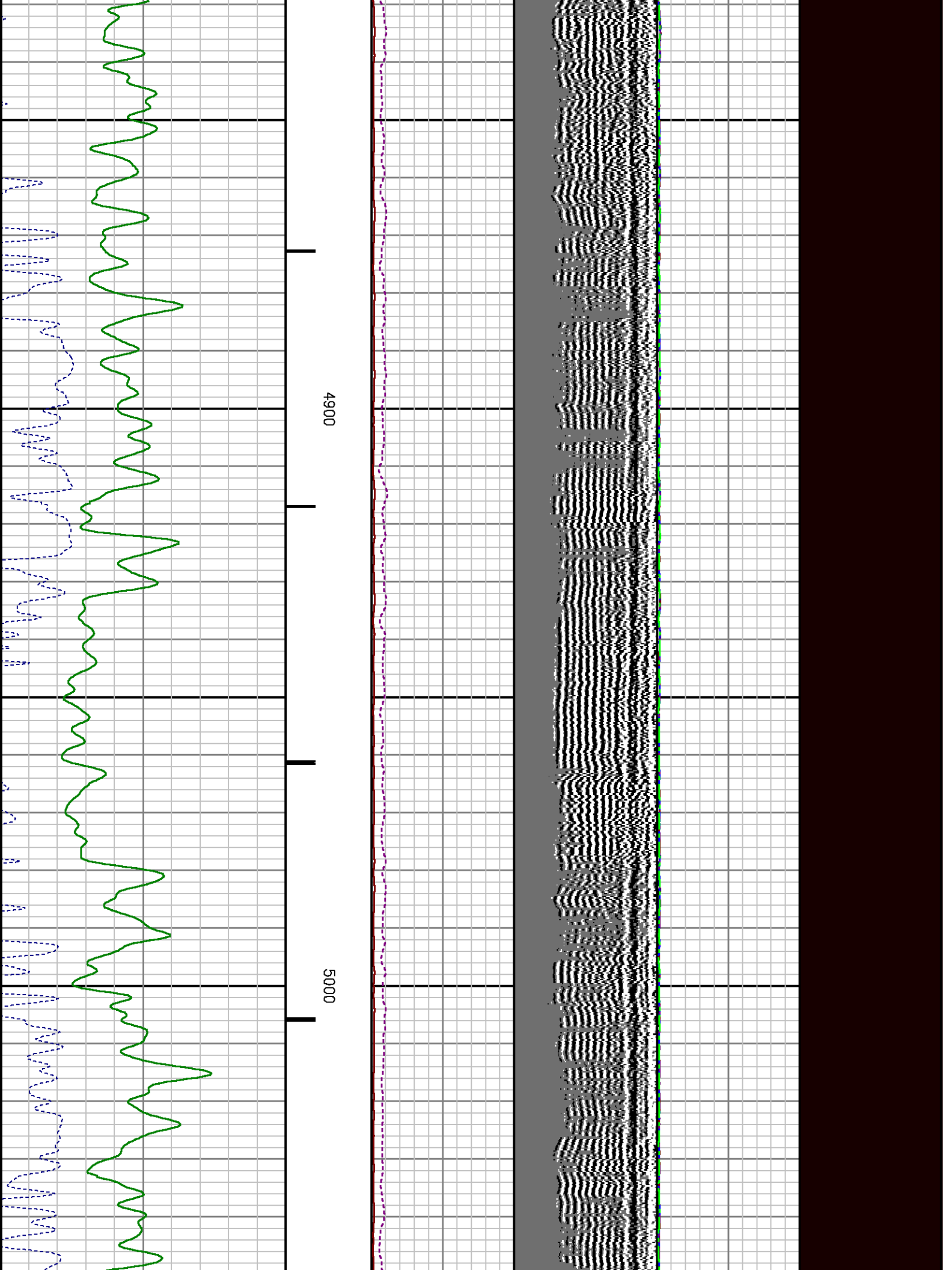


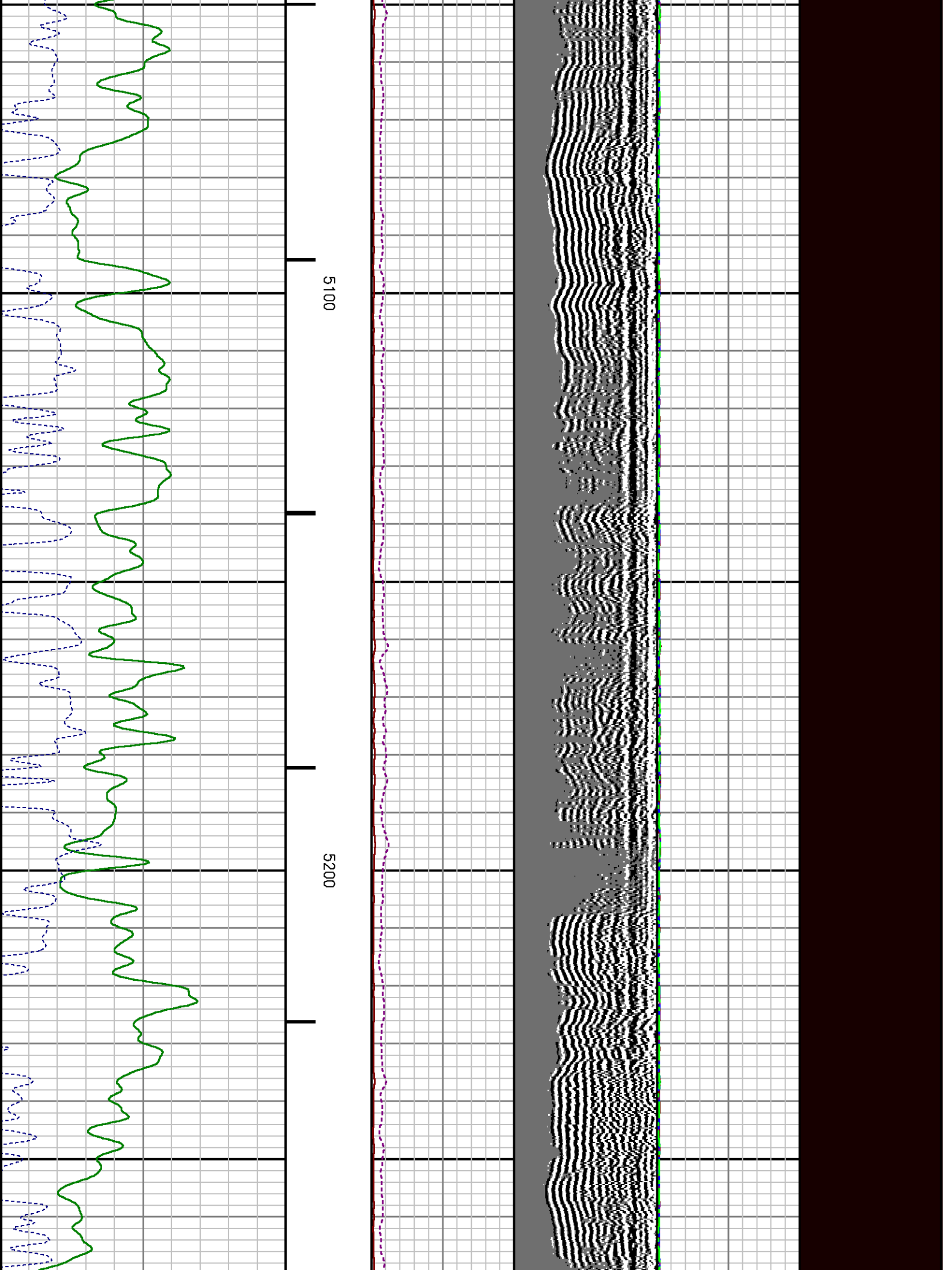


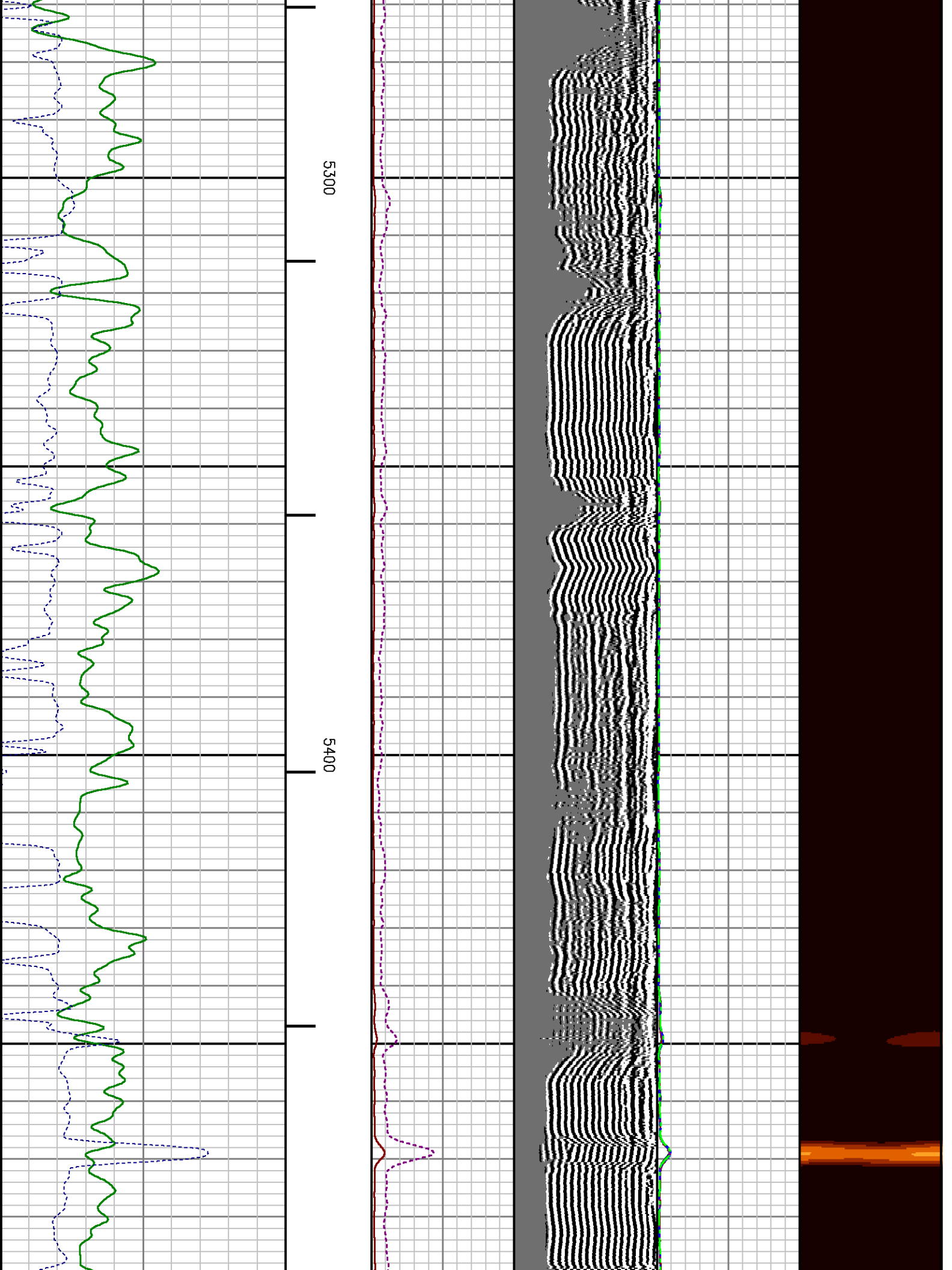


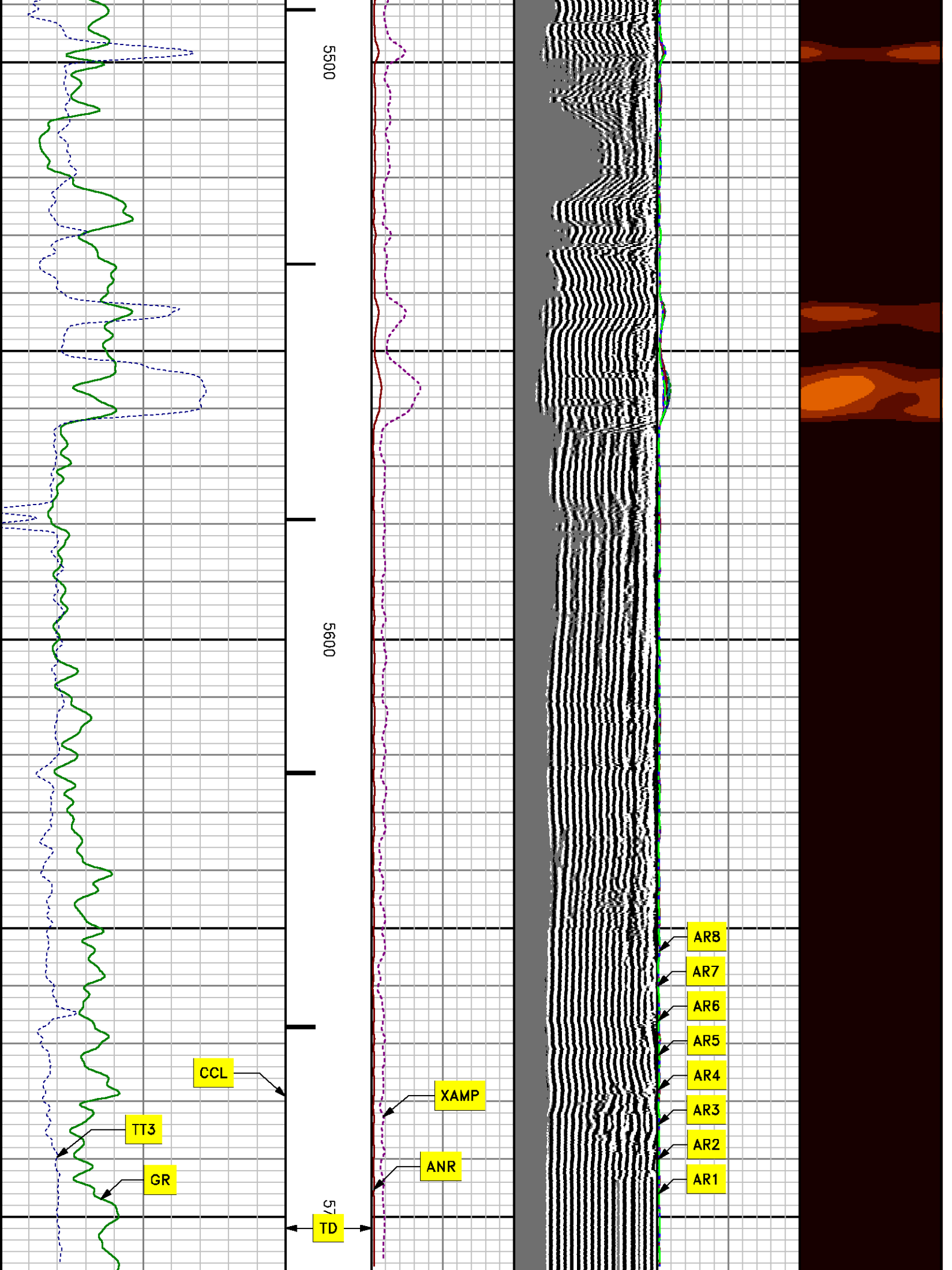


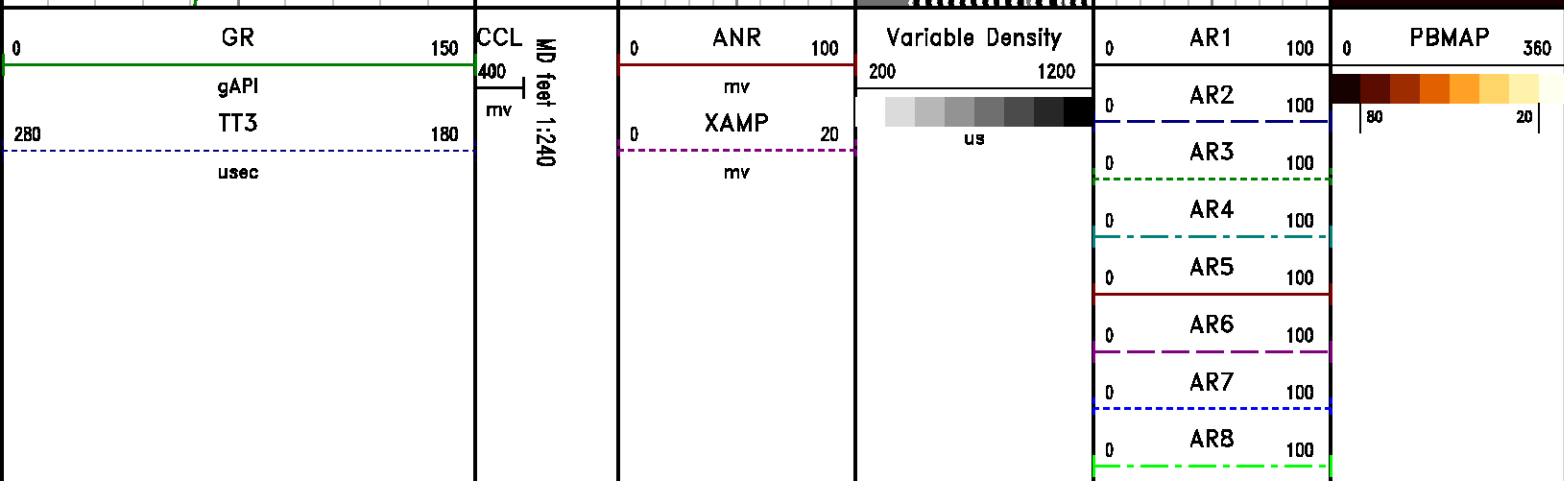












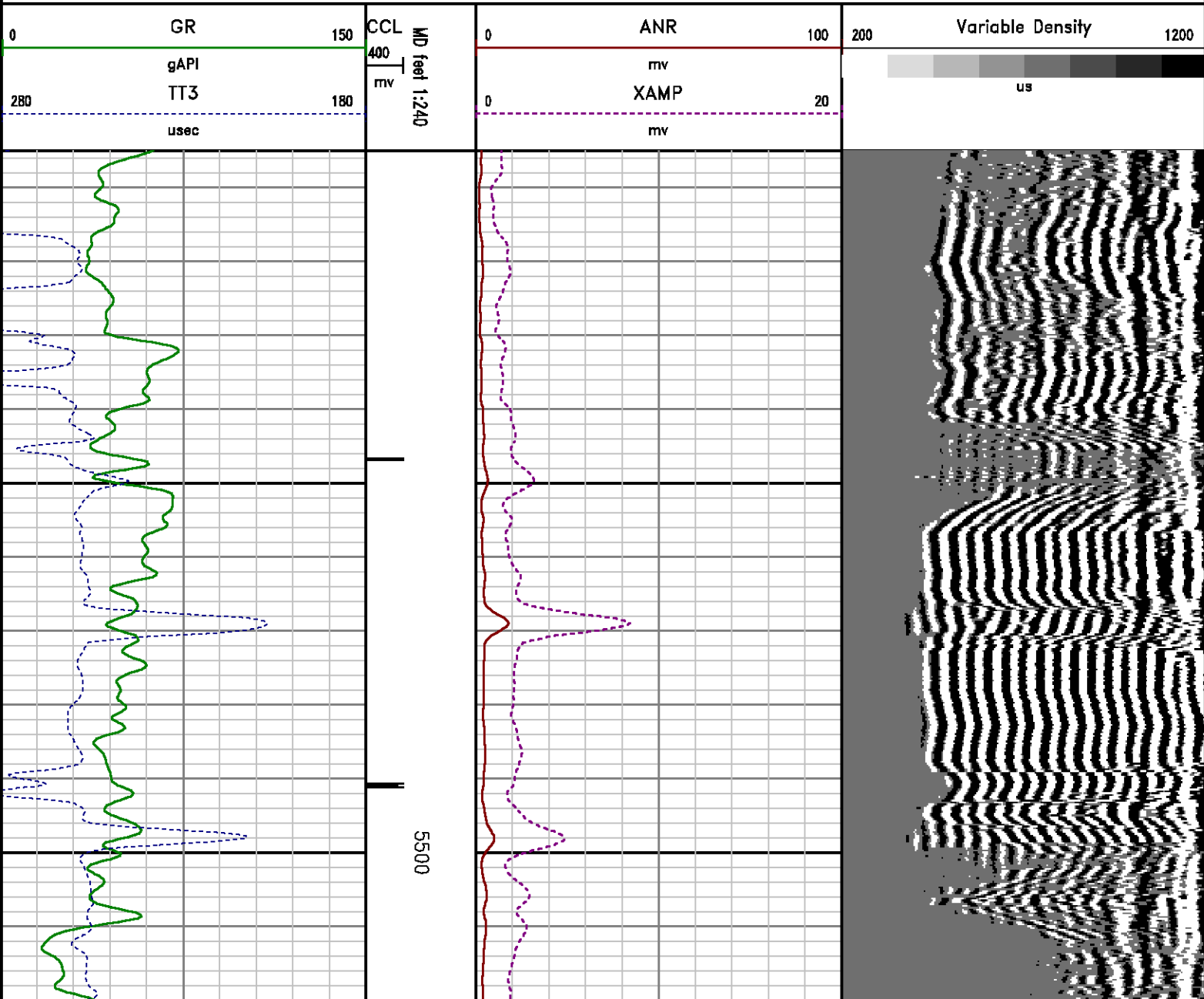
REPEAT PASS
0 PSI

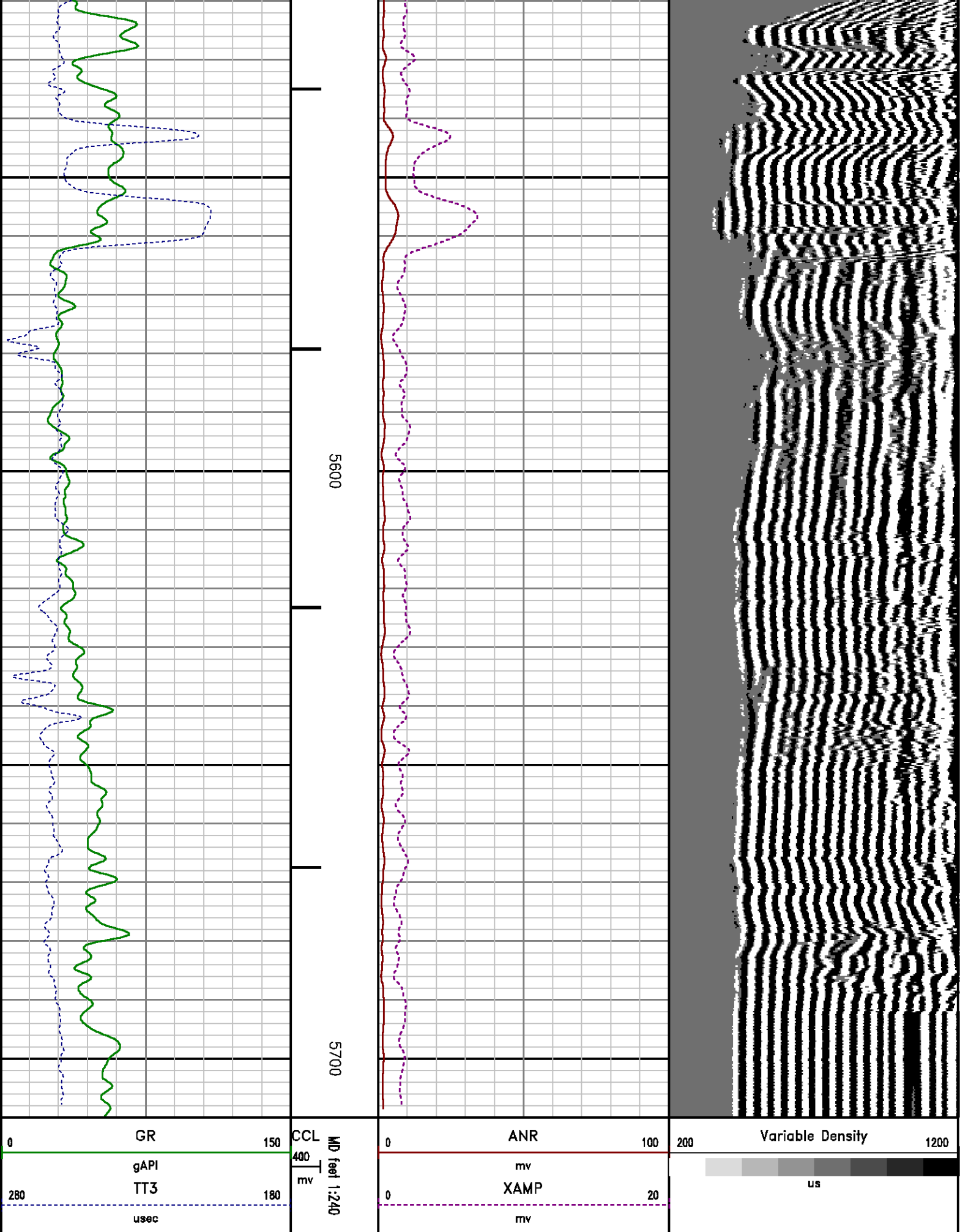
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RAL	casing od	4.500	inches	5399.781	5716.000
RAL	casing wt	11.600	lbm/ft	5399.781	5716.000
RAL	FB Start Far	291.900	usec	5399.781	5716.000
RAL	FB Start Near	175.391	usec	5399.781	5716.000
RAL	FB Start Radial	175.391	usec	5399.781	5716.000
RAL	FB Thresh Far	10.000	mv	5399.781	5716.000
RAL	FB Thresh Near	4.000	mv	5399.781	5716.000
RAL	FB Thresh Radial	4.000	mv	5399.781	5716.000
RAL	Fluid Travel Time	200.000	usec/ft	5399.781	5715.718

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 341-22
File Name : d:\welldata\341cbl\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 5405.00 - 5710.00 feet UP
Created : 9/3/2013 8:33:09 AM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: 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 [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	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 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	0.007	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

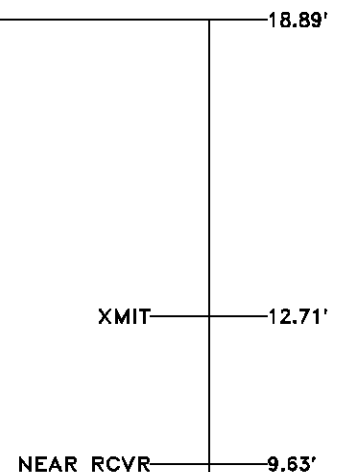
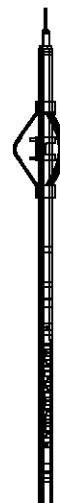
PRIMARY LOG VERIFICATION

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



FAR RCVR	7.71'
CCL	5.79'
GR	1.67'
TEMP	0.17'
	0.00'

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



Company	WPX ENERGY		
Well	STRAIT SG 341-22		
Field	GRAND VALLEY		
County	GARFIELD	State	COLORADO

File No:	CH076665
API No:	05045217470000

Location

SHL: 1458' FNL & 286' FEL SEC:22
BHL: 616' FNL & 623' FEL SEC:22

Elevations

KB 5244 ft
DF
GL 5222 ft

SEC 22 TWP 7S RGE 96W

22 7S 96W
SG 42-22
CYCLONE 17

Baker Atlas

