



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH075920	Company Well	WPX ENERGY STRAIT SG 431-22
API No: 05045217480000	Field County	GRAND VALLEY GARFIELD
	State	COLORADO
22 7S 96W SG 42-22 PAD CYCLONE 17	Location SHL: 1489' FNL x 293' FEL BHL: 893' FNL x 2198' FEL (NWNE)	Other Services RPM
Permanent Datum Log Measured From Drill Measured From	GL _____ Elevation _____ KB _____ 22' ft Above P. D. KELLY BUSHING	Elevations KB 5244 ft DF GL 5222 ft

Date	18/AUG/13	
Run	ONE	
Service Order	624404	
Depth Driller	6023 ft	
Depth Logger	6004 ft	
Bottom Logged Interval	5994 ft	
Top Logged Interval	21 ft	
Time Started	1600	
Time Finished	1900	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	60 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	197 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	4271	GRAND JCT
Recorded By	FLOYD RENEAU	
Witnessed By	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	1214 ft
8.75 in	1214 ft	6023 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in			0 ft	1214 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	6023 ft

Remarks
All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.
The amount of linear shift is 6.5 feet.
Logged with zero PSI at wellhead.
BHT = 197°F
SJ = 3608'-3632'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENT
1	1	GR/CCL	1355XA	10580209	CENT

PRIMARY PRESENTATION

0 PSI

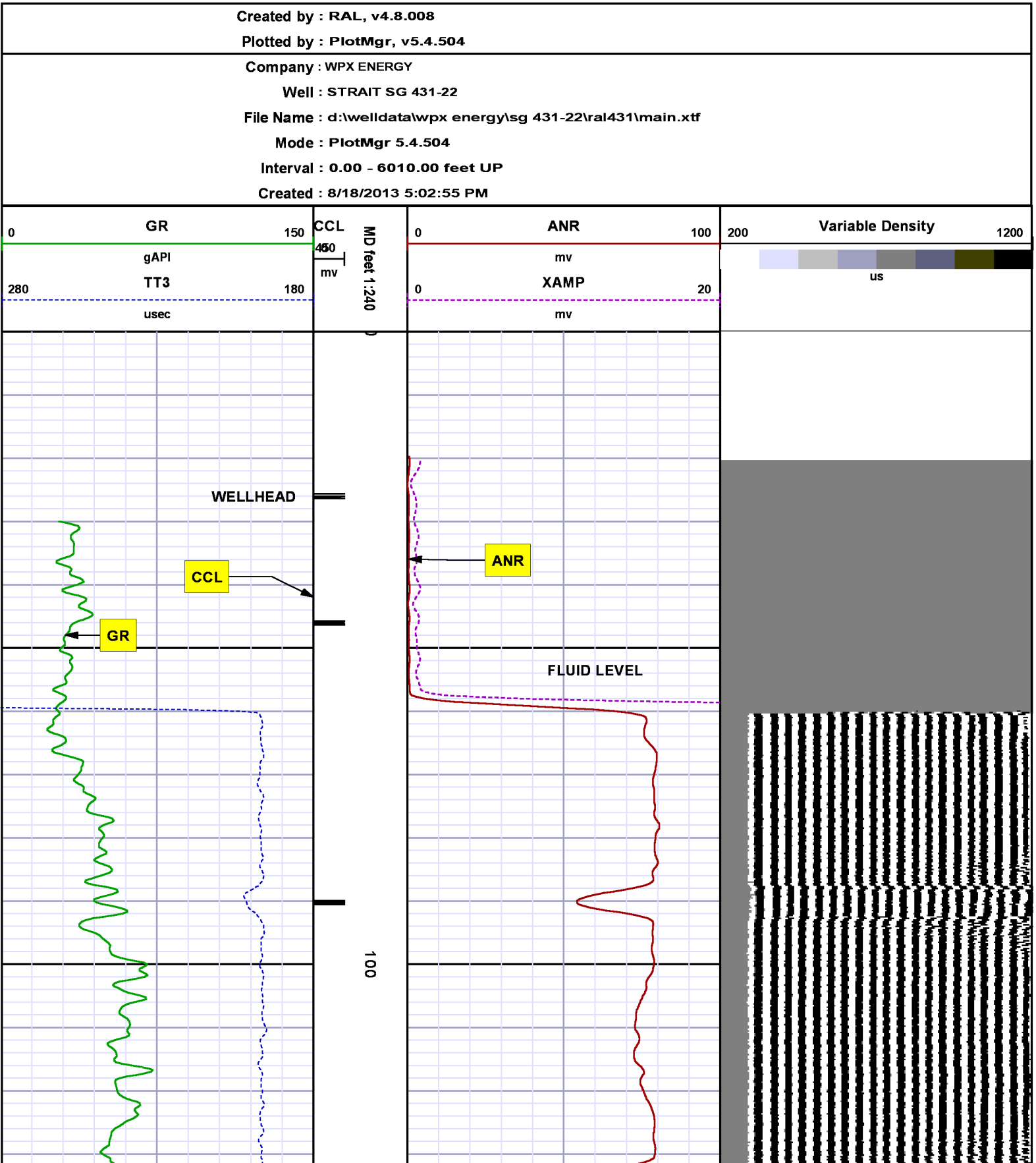
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	30.250	6024.500
RAL	Amp Gate Start Near	195.000	usec	30.250	6024.500
RAL	Amp Gate Start Radial	195.000	usec	30.250	6024.500
RAL	Amp Gate Width Far	25.000	usec	30.250	6024.500
RAL	Amp Gate Width Near	25.000	usec	30.250	6024.500
RAL	Amp Gate Width Radial	25.000	usec	30.250	6024.500
RAL	casing od	4.500	inches	30.250	6024.500
RAL	casing wt	11.600	lbm/ft	30.250	6024.500
RAL	FB Start Far	291.900	usec	30.250	6024.500
RAL	FB Start Near	180.000	usec	30.250	6024.500
RAL	FB Start Radial	180.000	usec	30.250	6024.500
RAL	FB Thresh Far	10.000	mv	30.250	6024.500
RAL	FB Thresh Near	4.000	mv	30.250	6024.500
RAL	FB Thresh Radial	4.000	mv	30.250	6024.500
RAL	Fluid Travel Time	200.000	usec/ft	30.250	6024.094

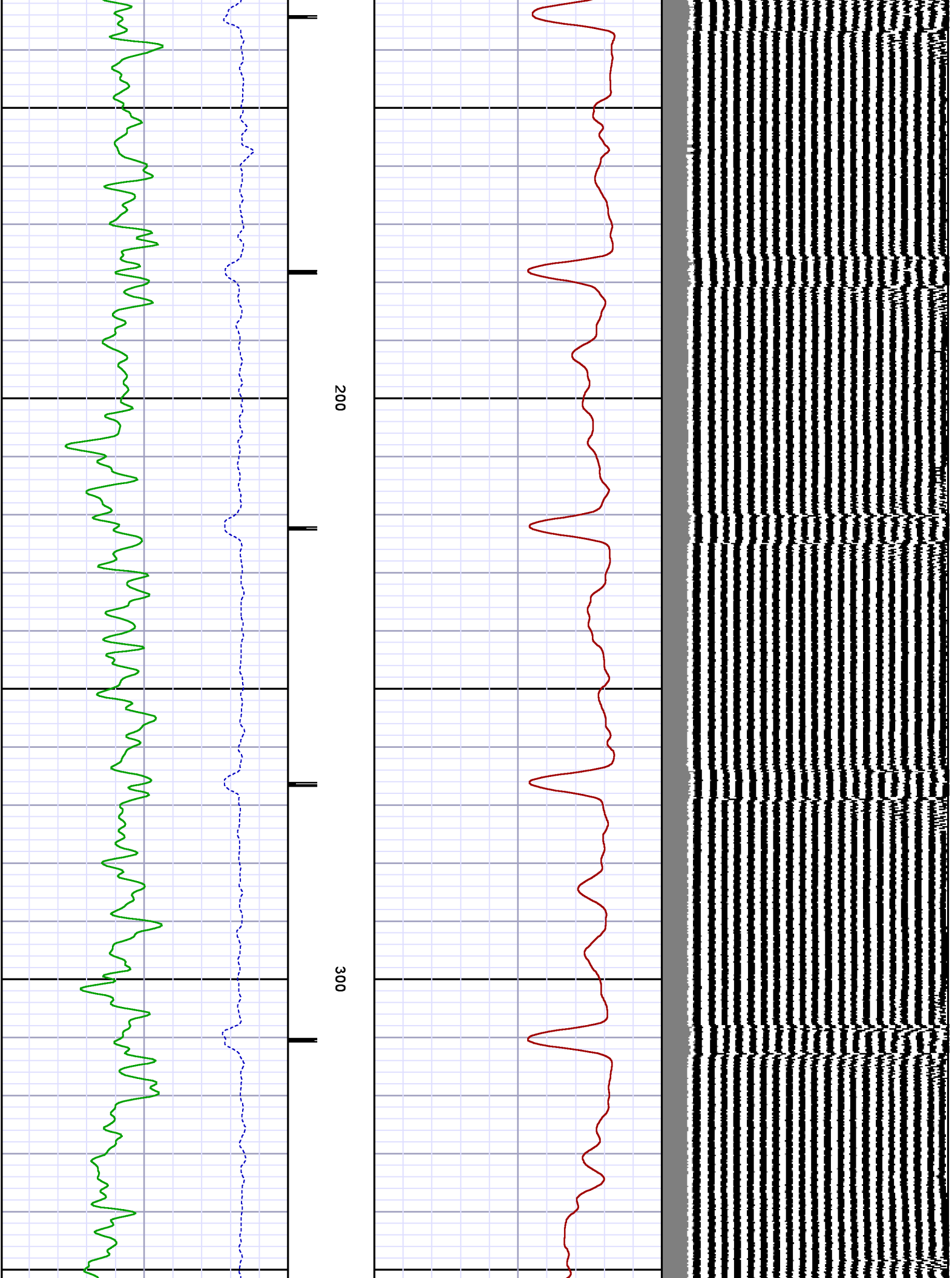
DEPTH OFFSETS

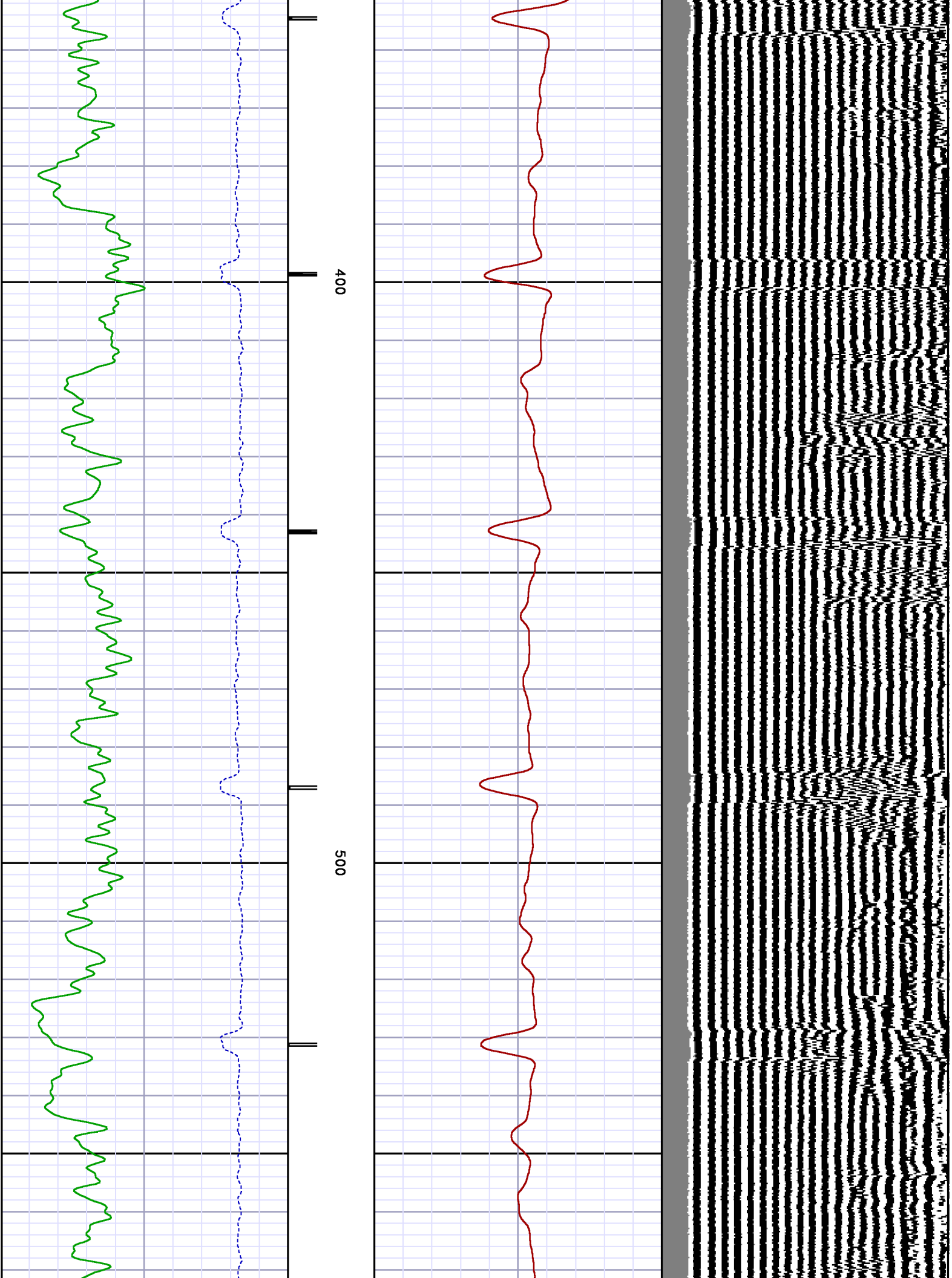
(for Acquired Curves)

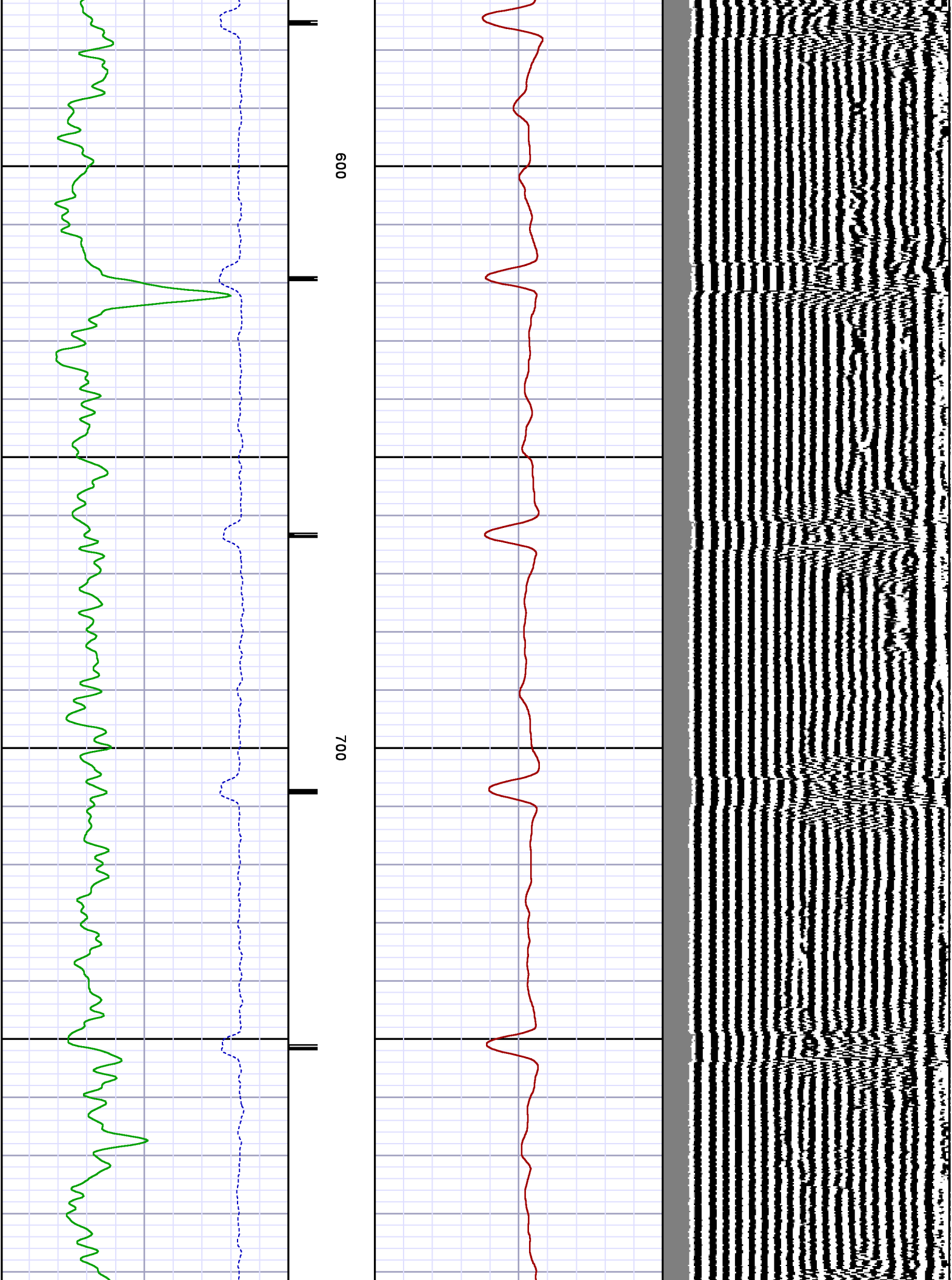
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FBF1	FBF2	FBF3	FBF4	FBF5	FBF6

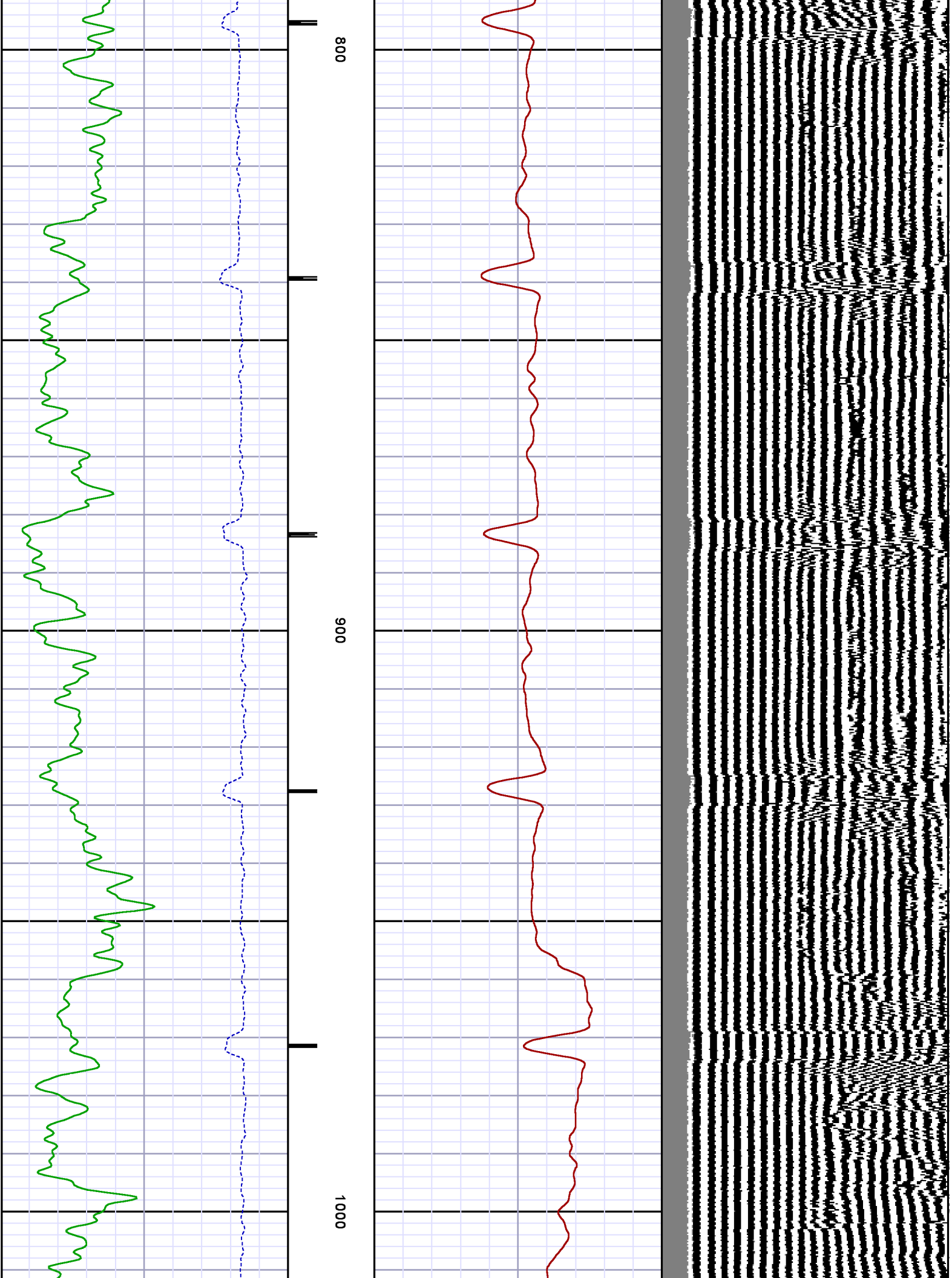
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

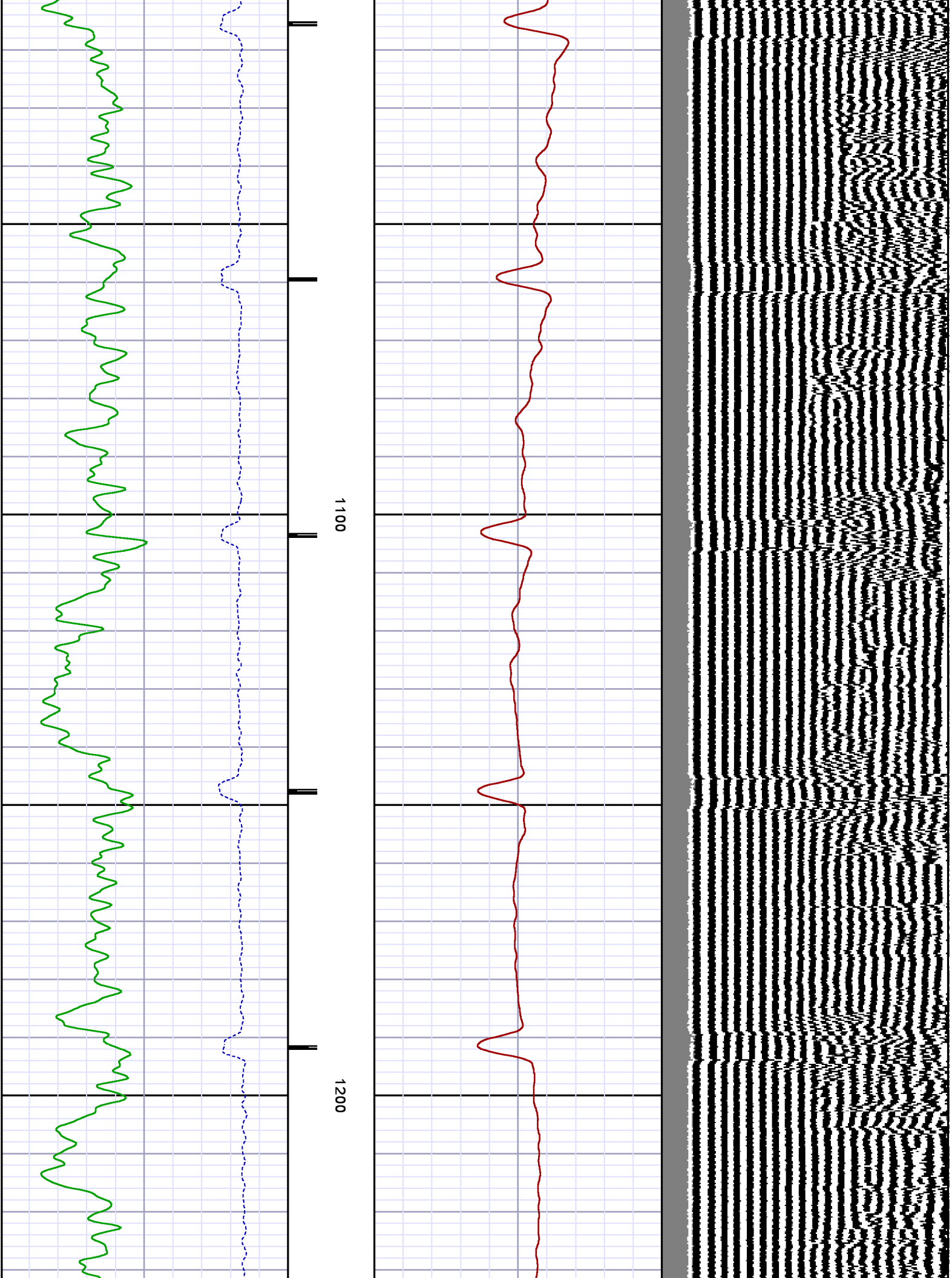


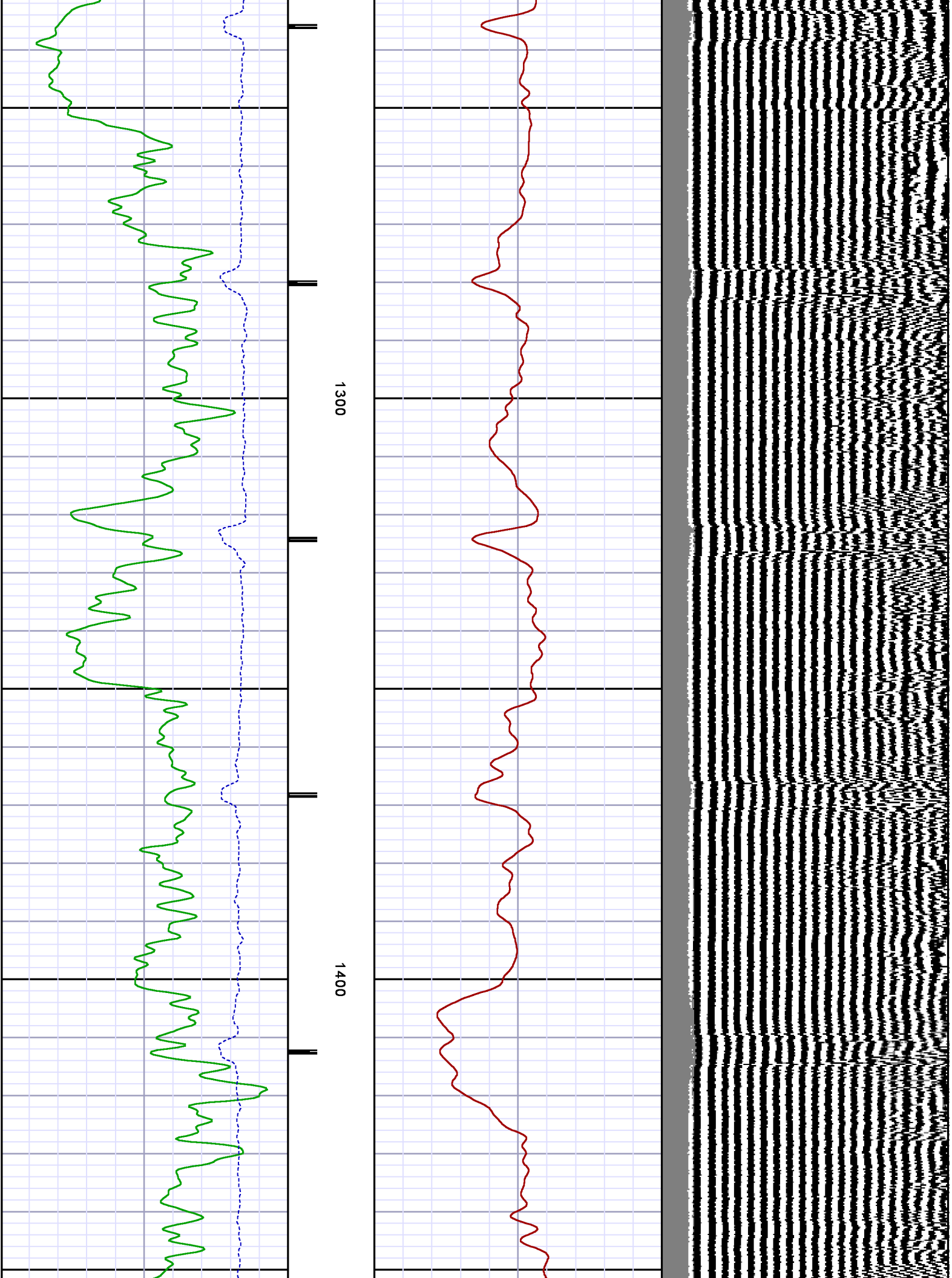


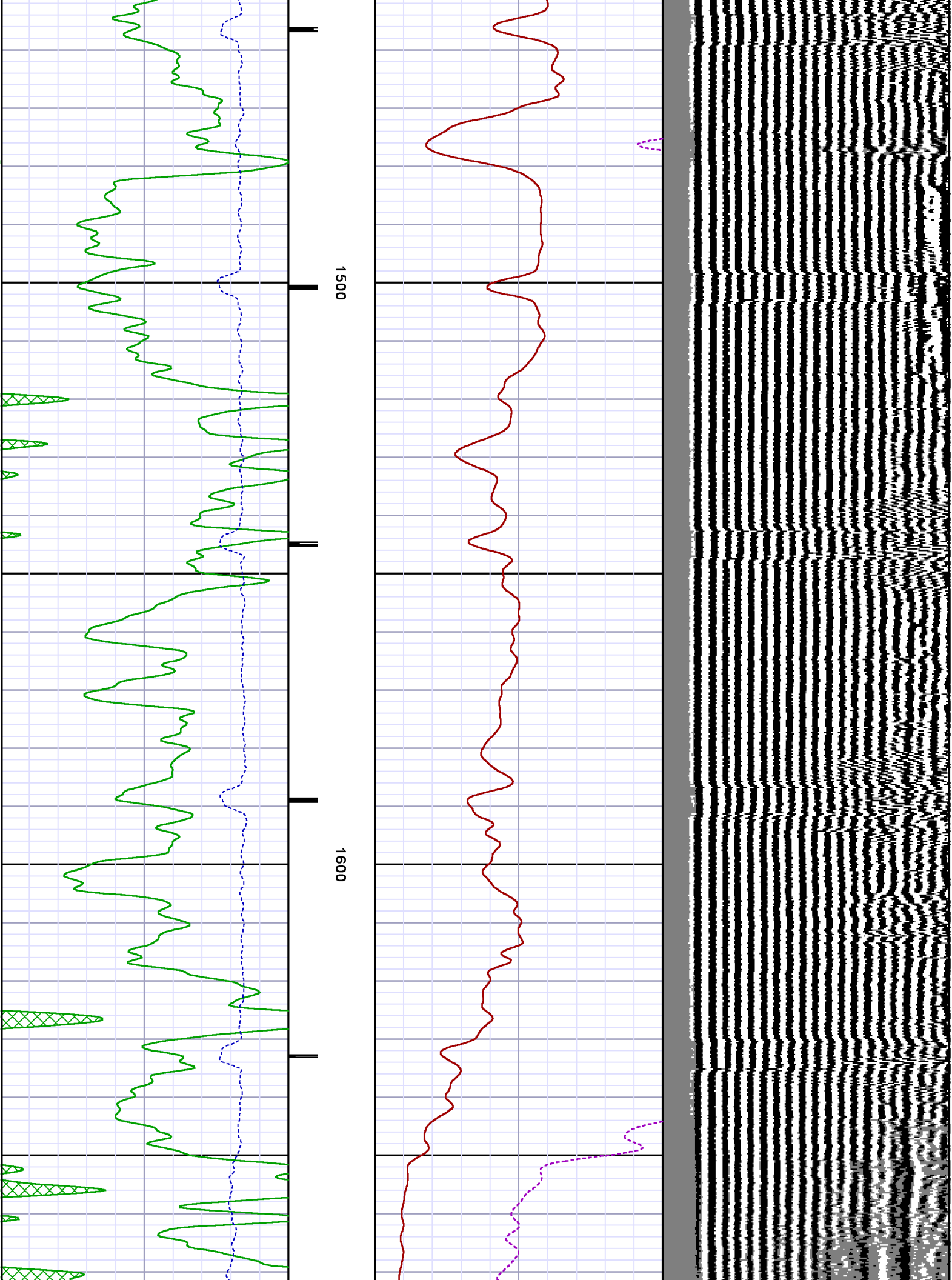


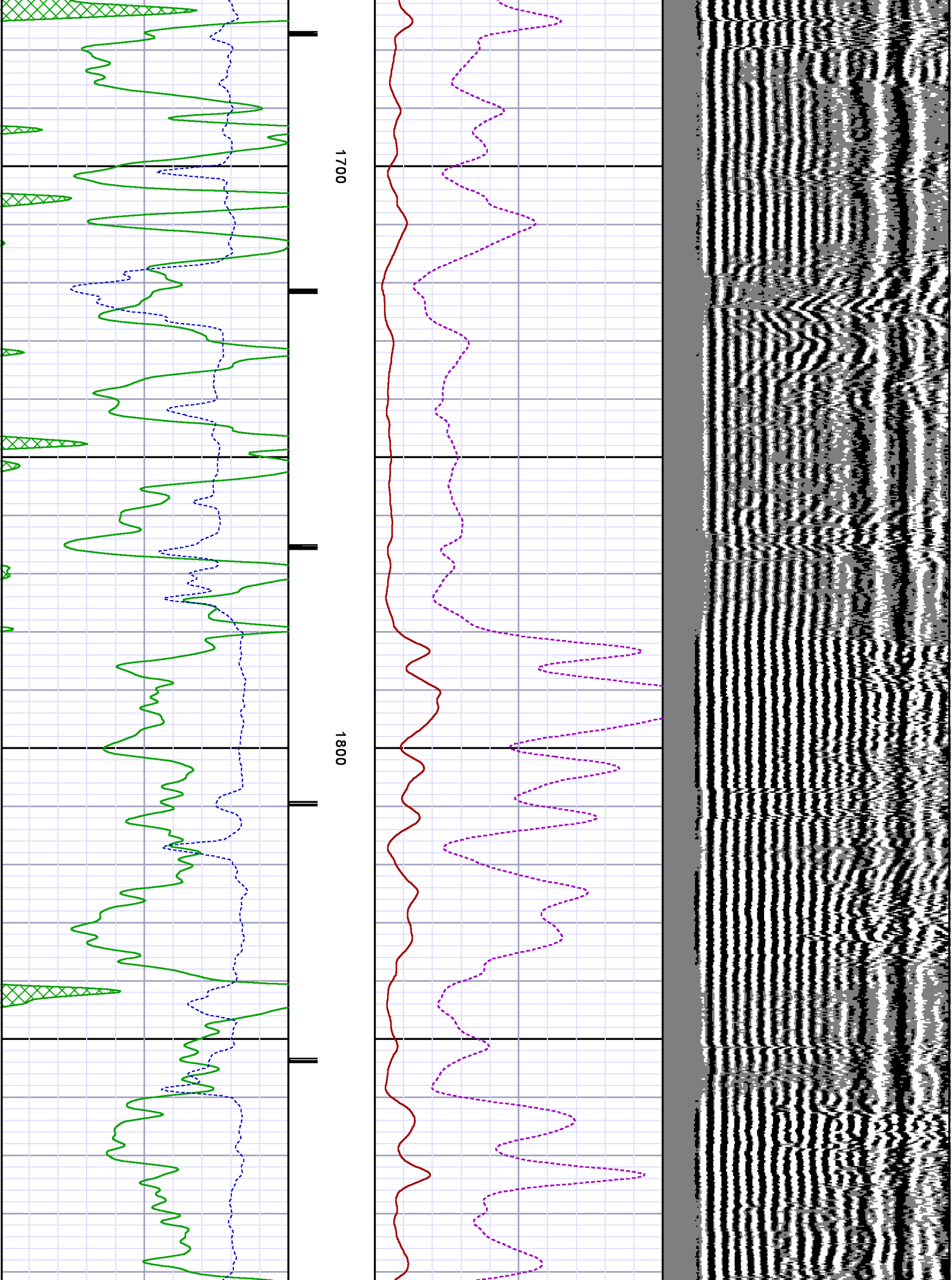


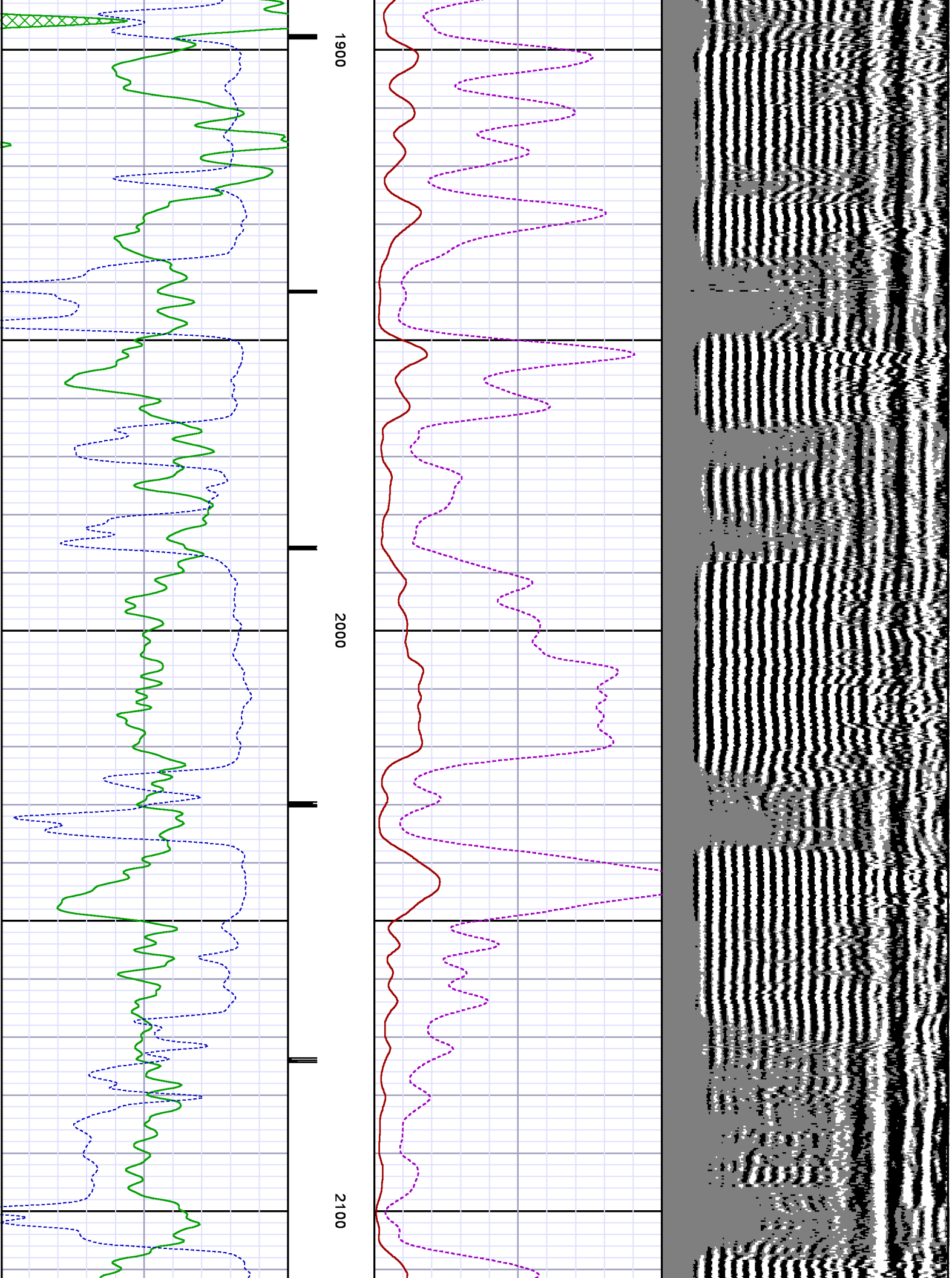


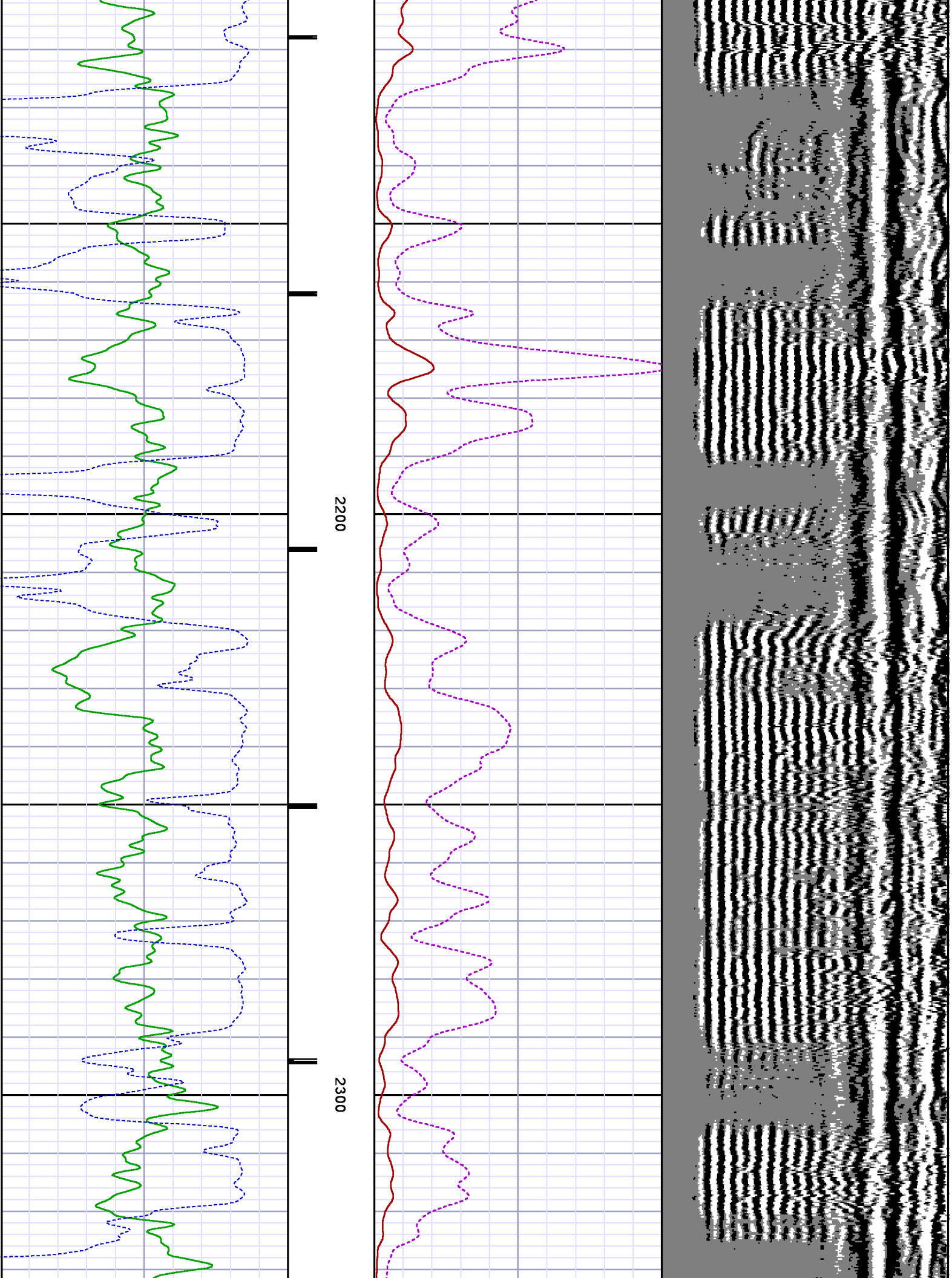


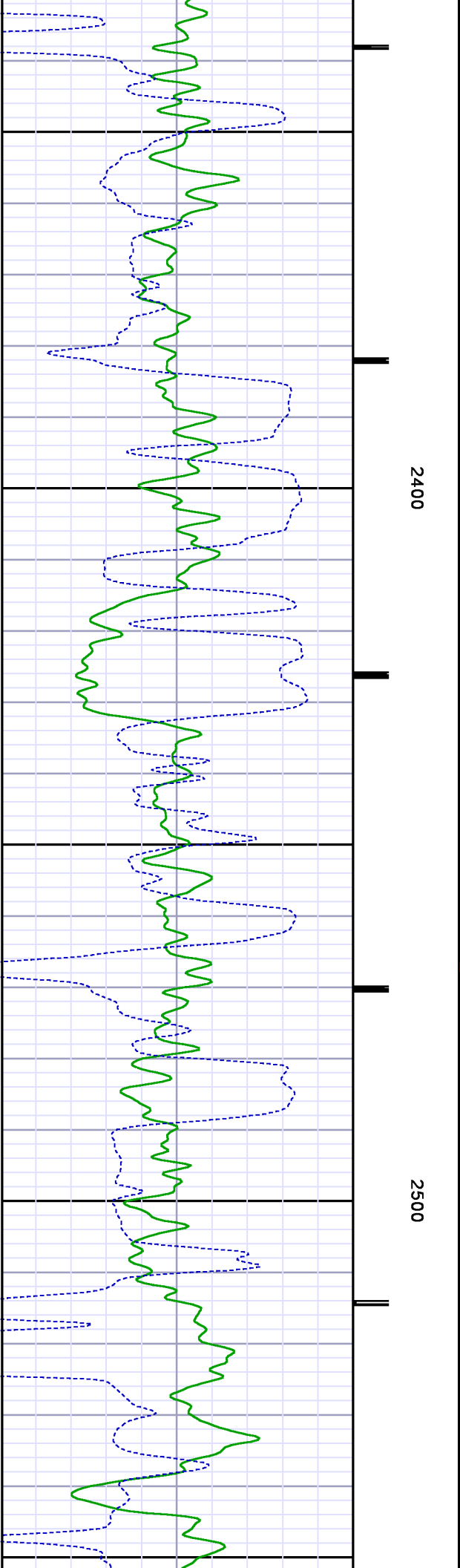
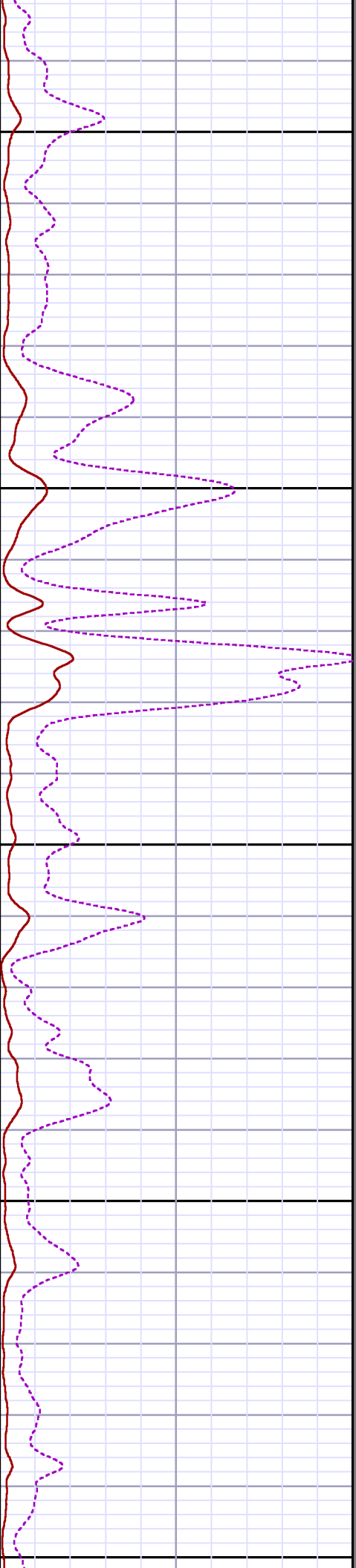
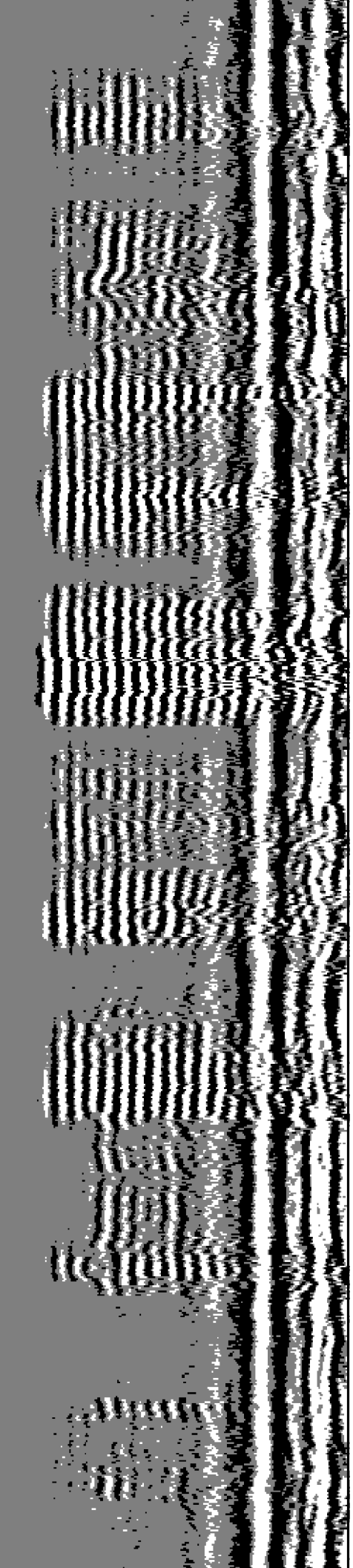


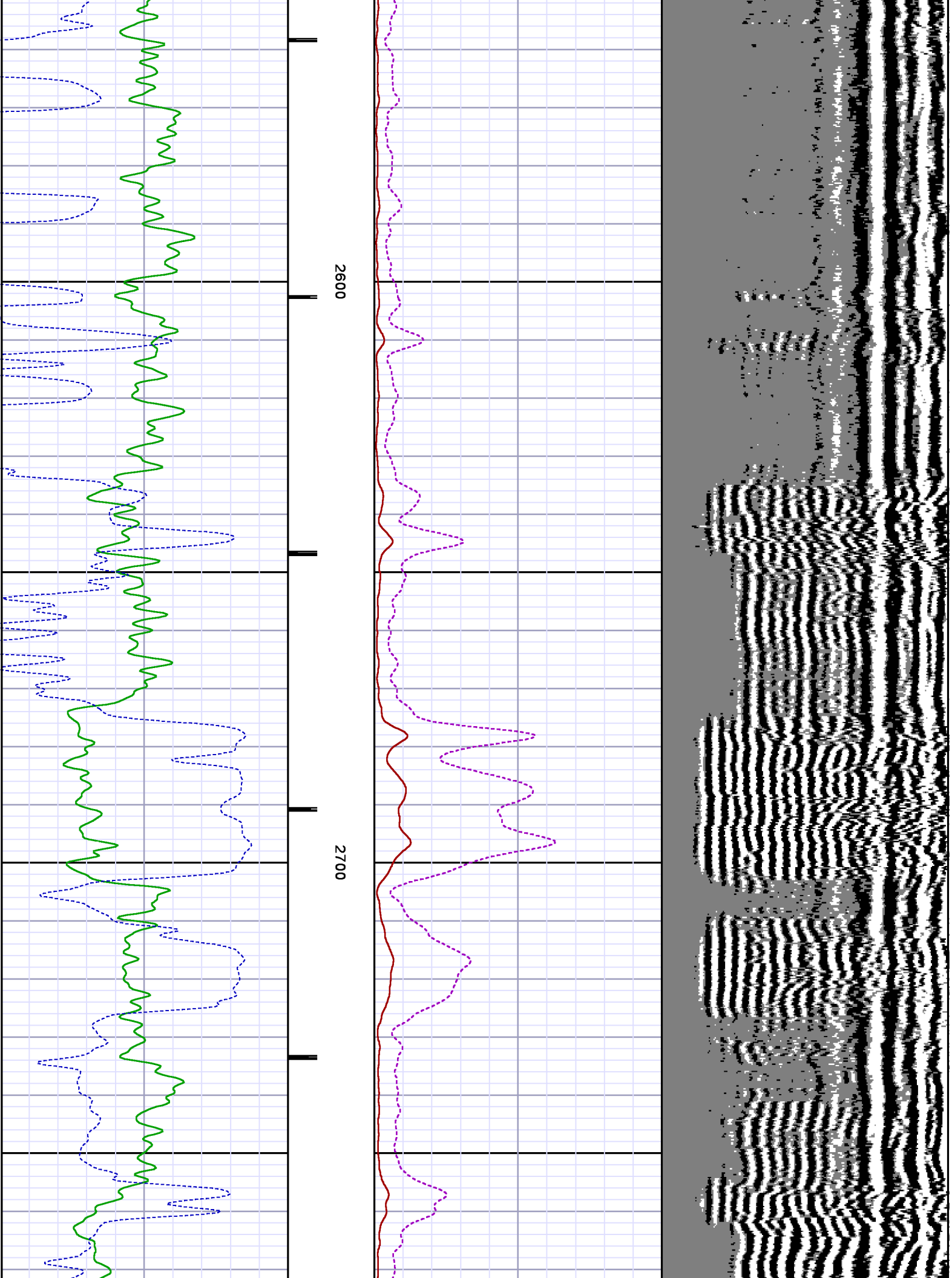


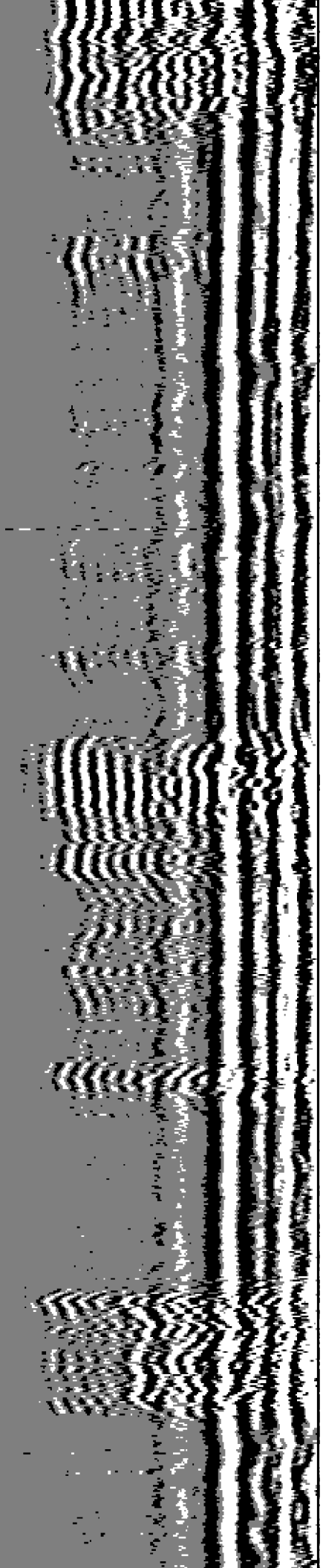






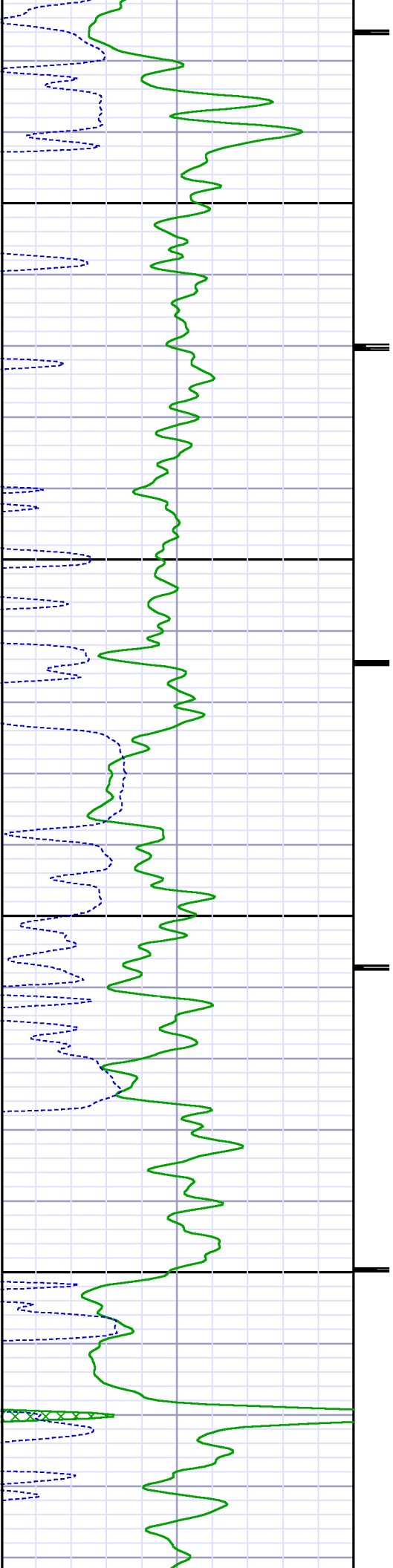


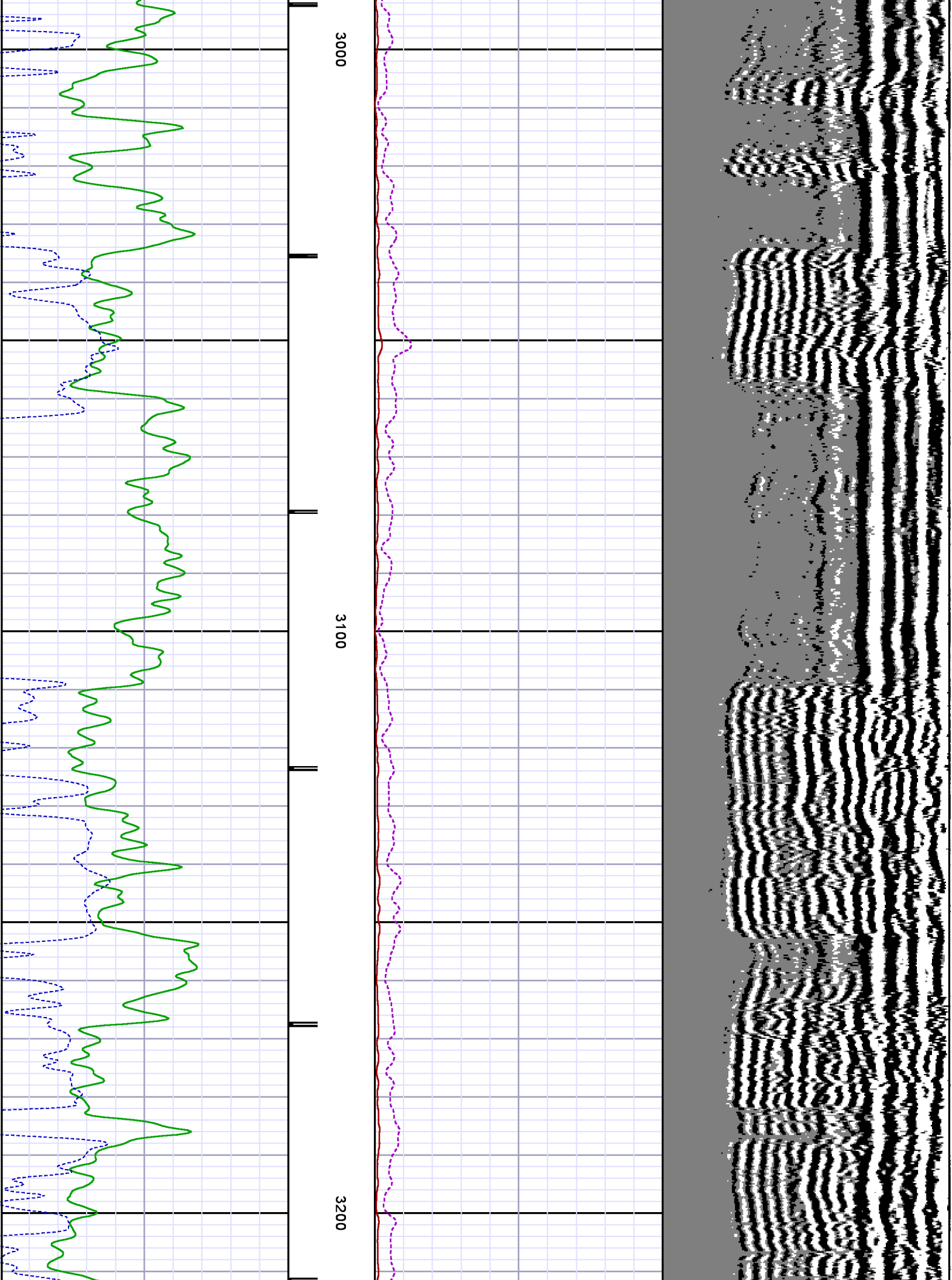


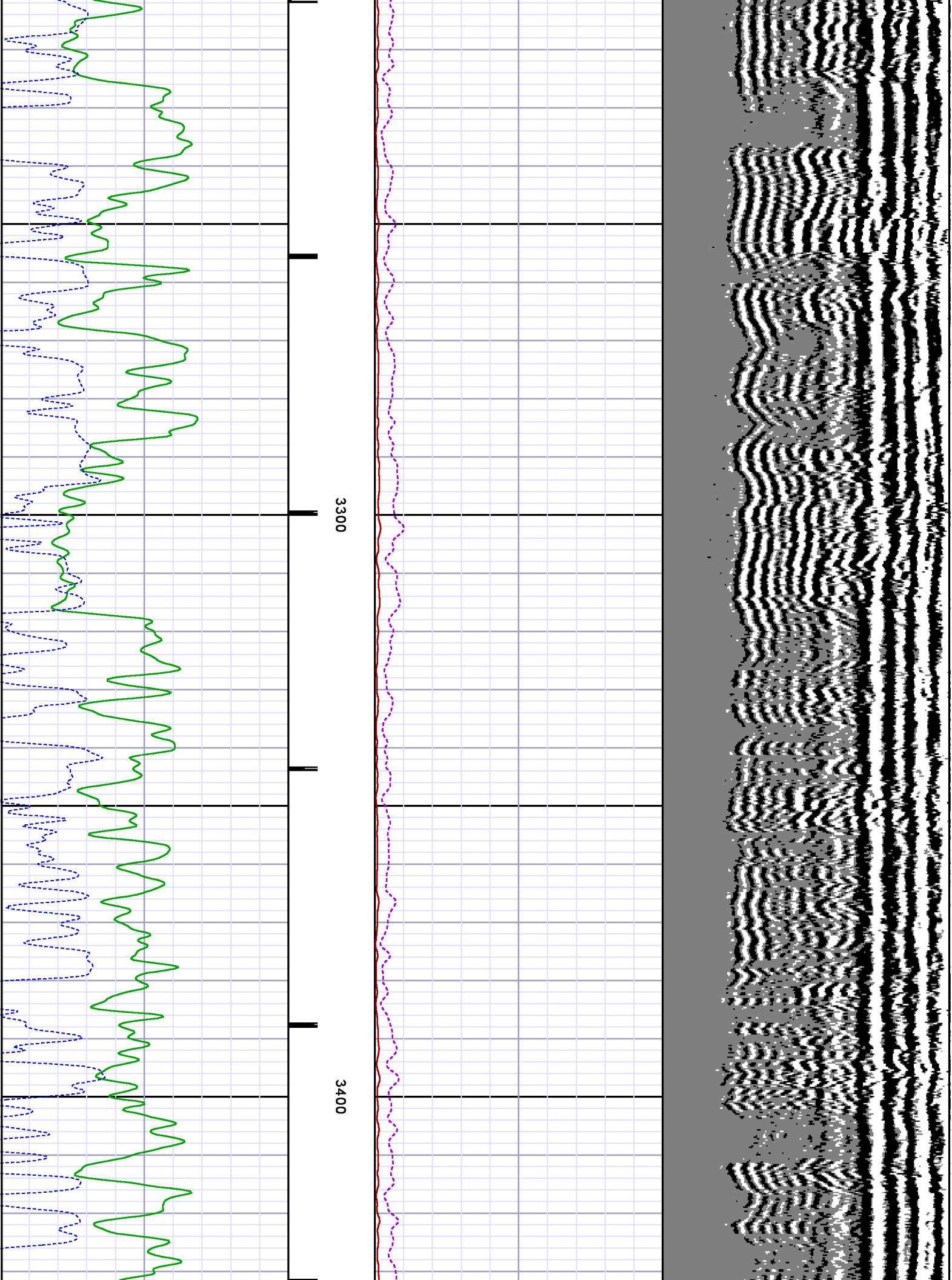


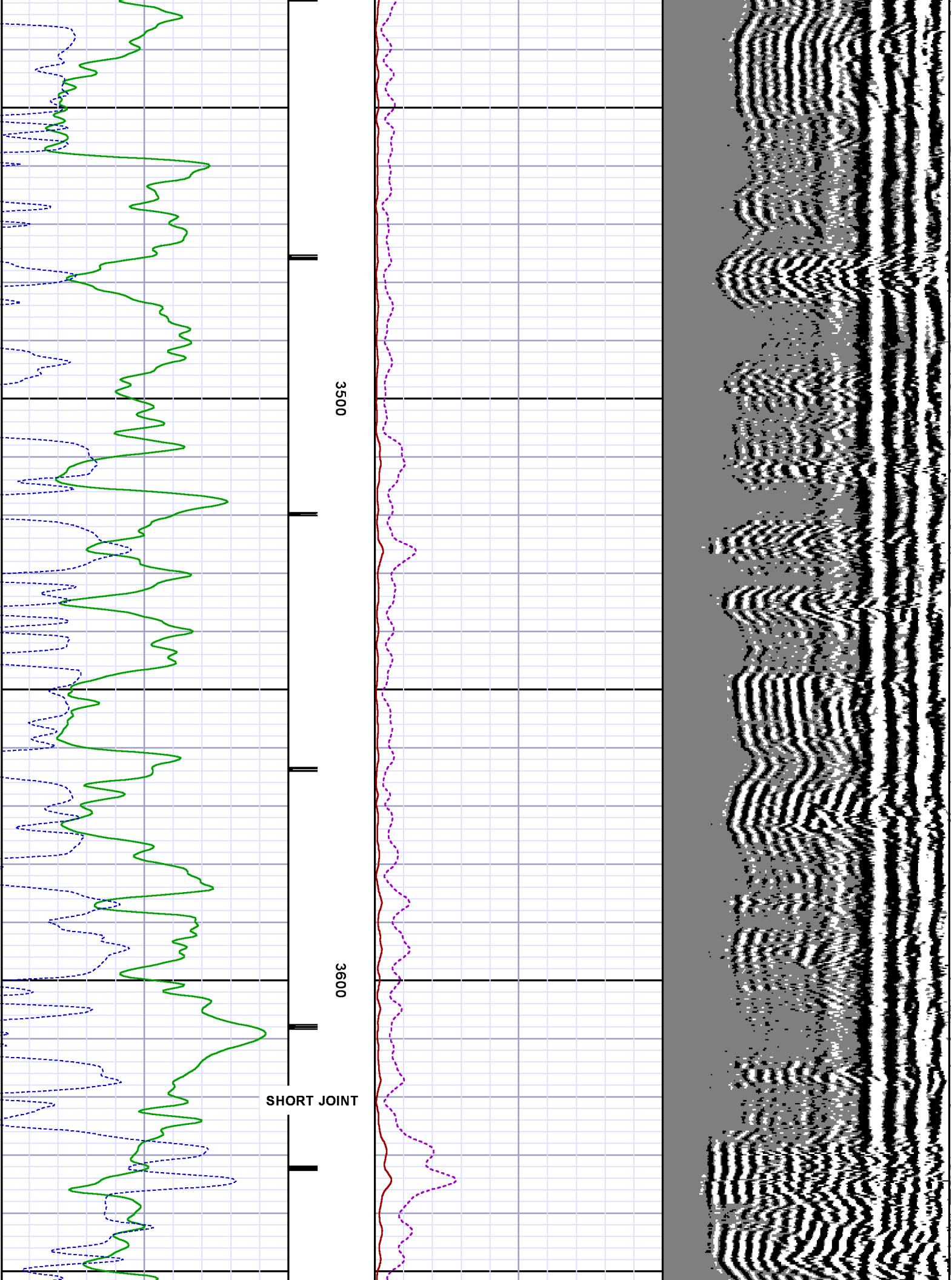
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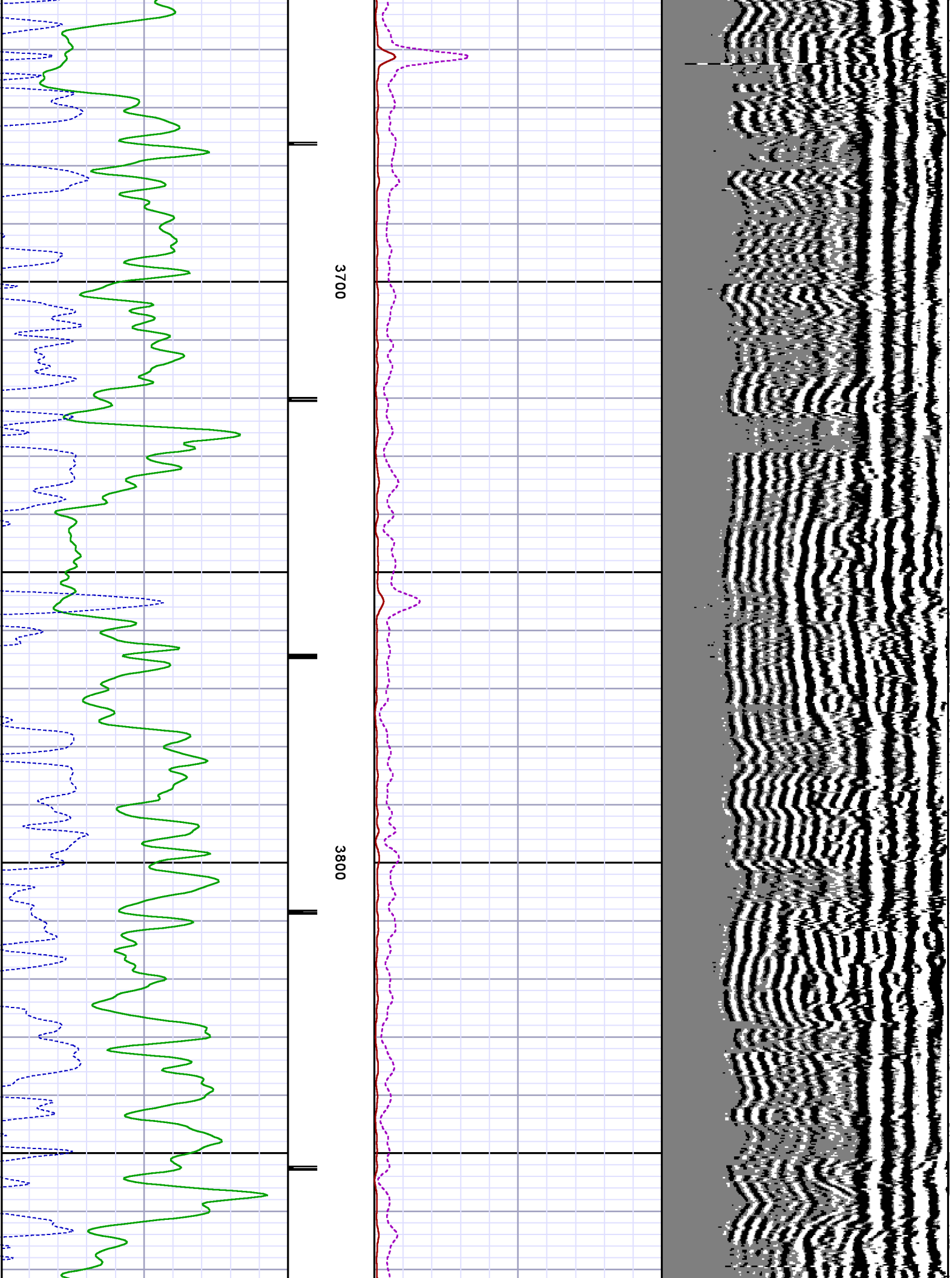
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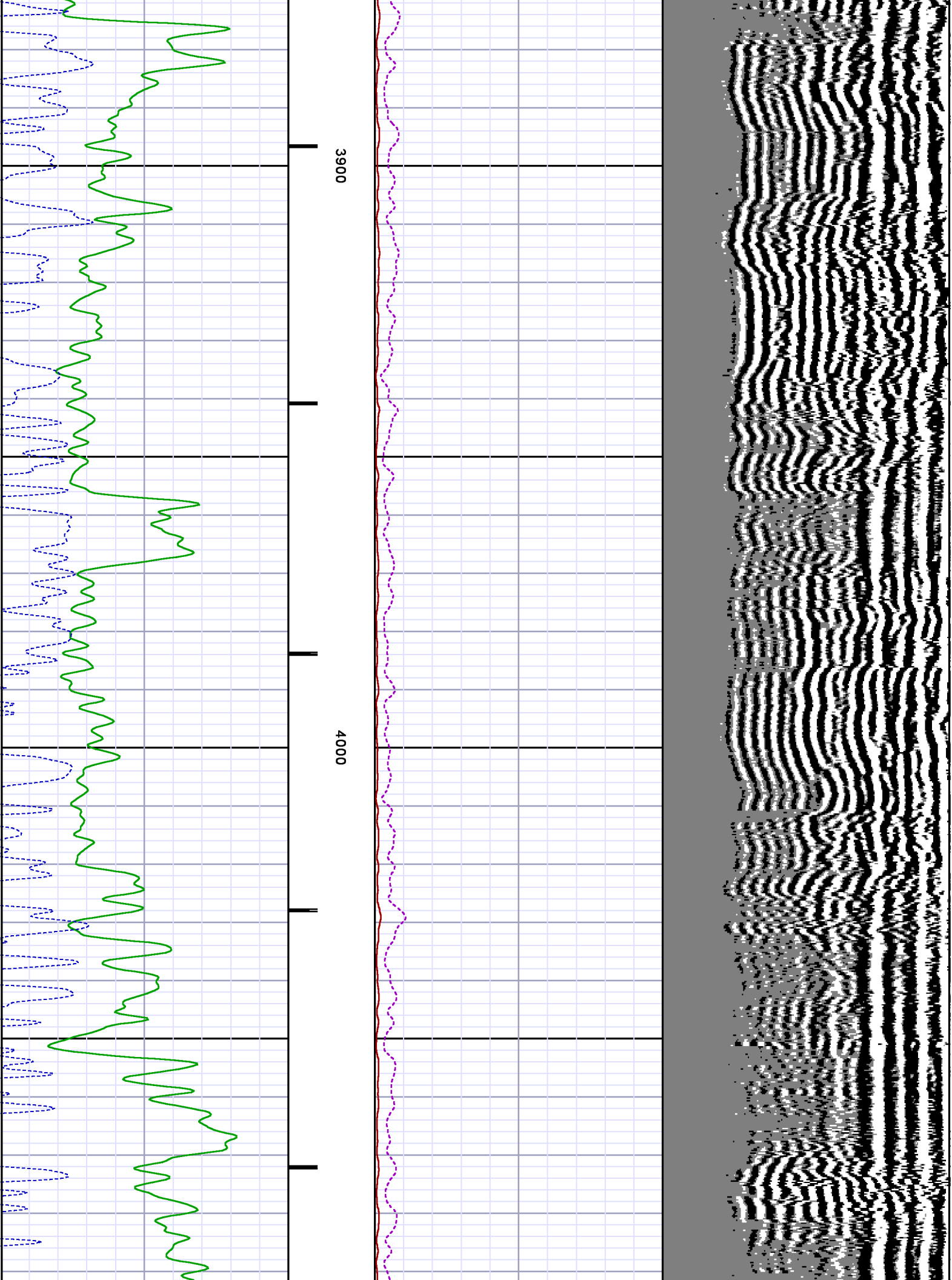


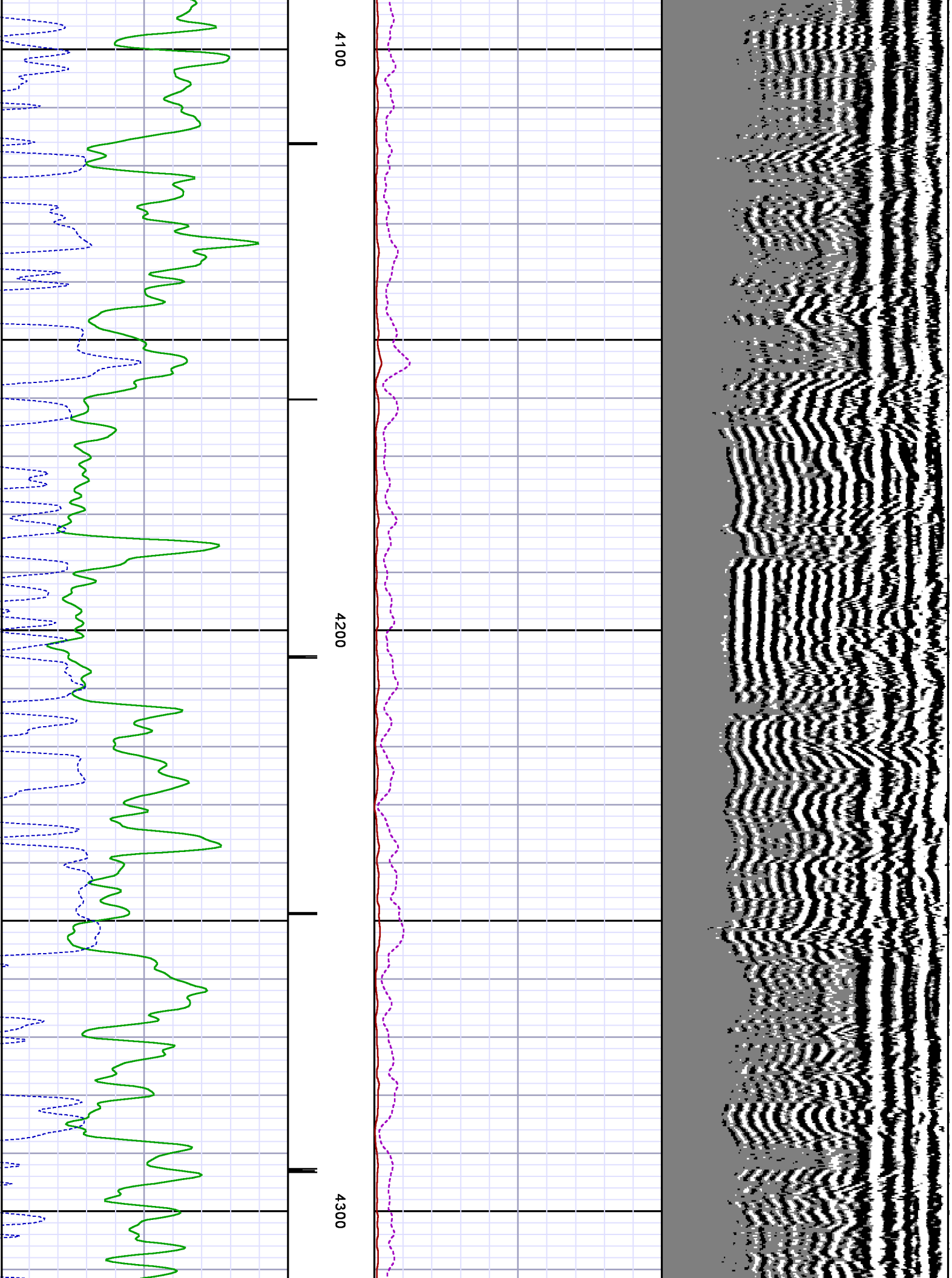


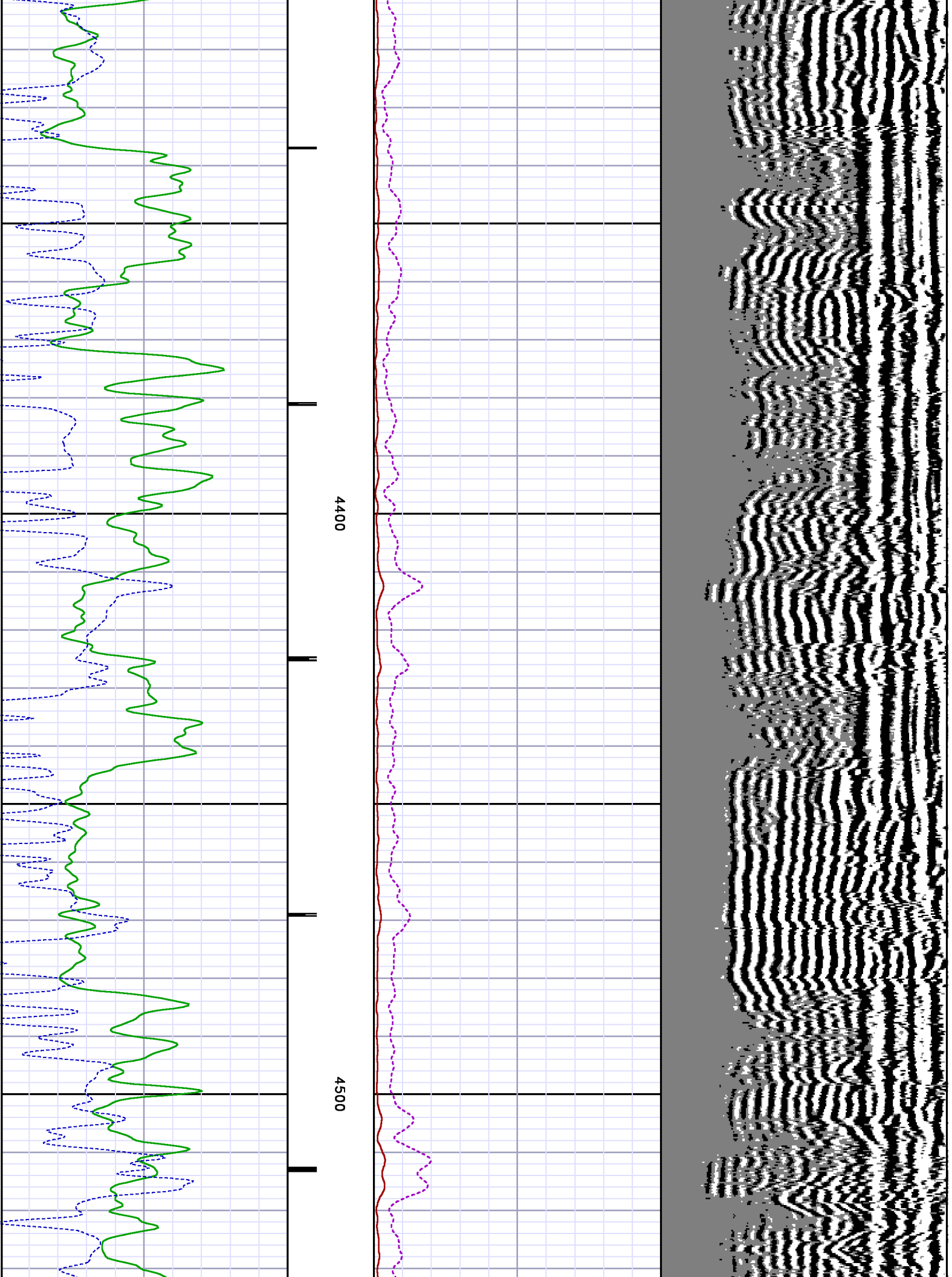


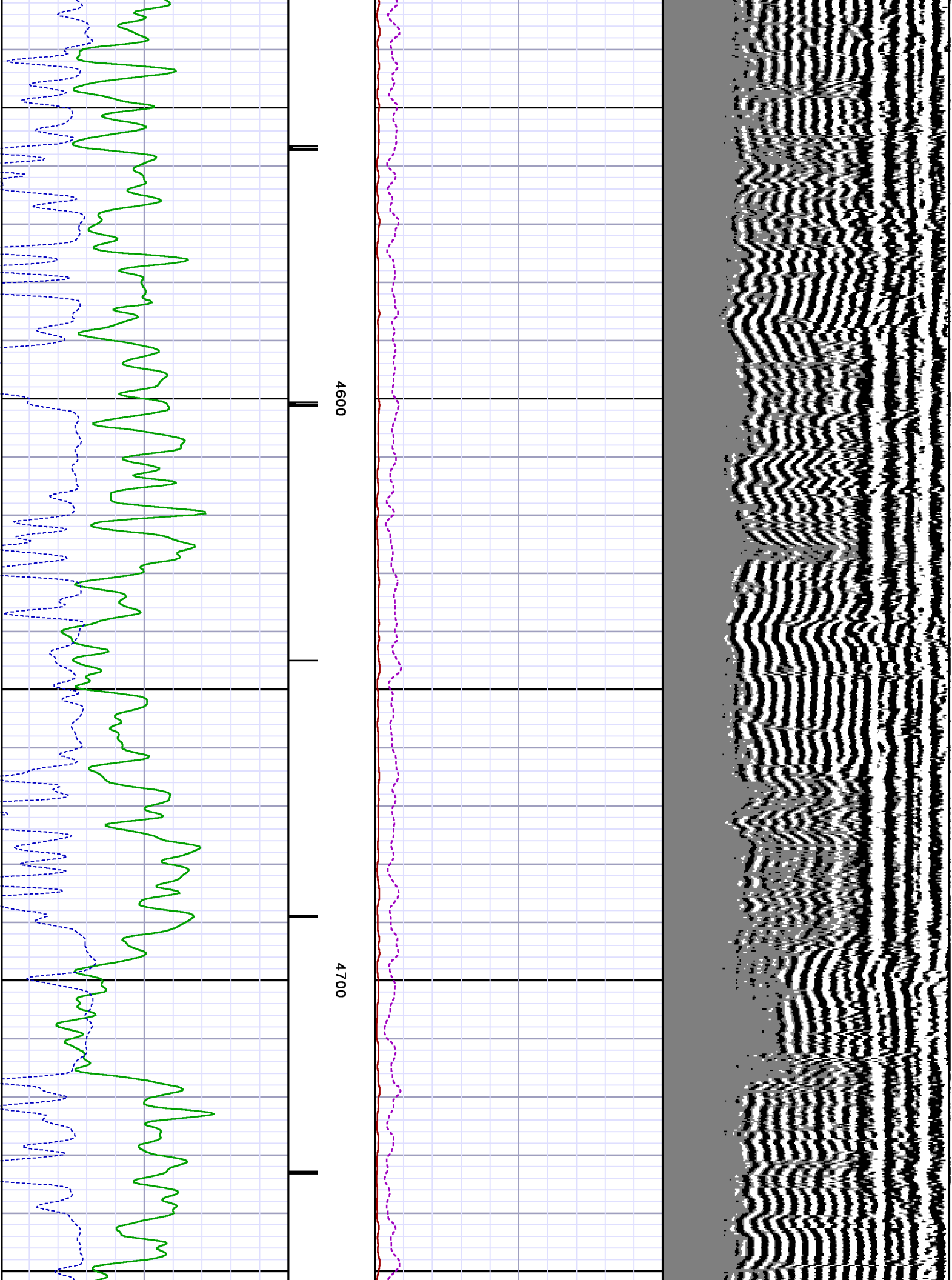


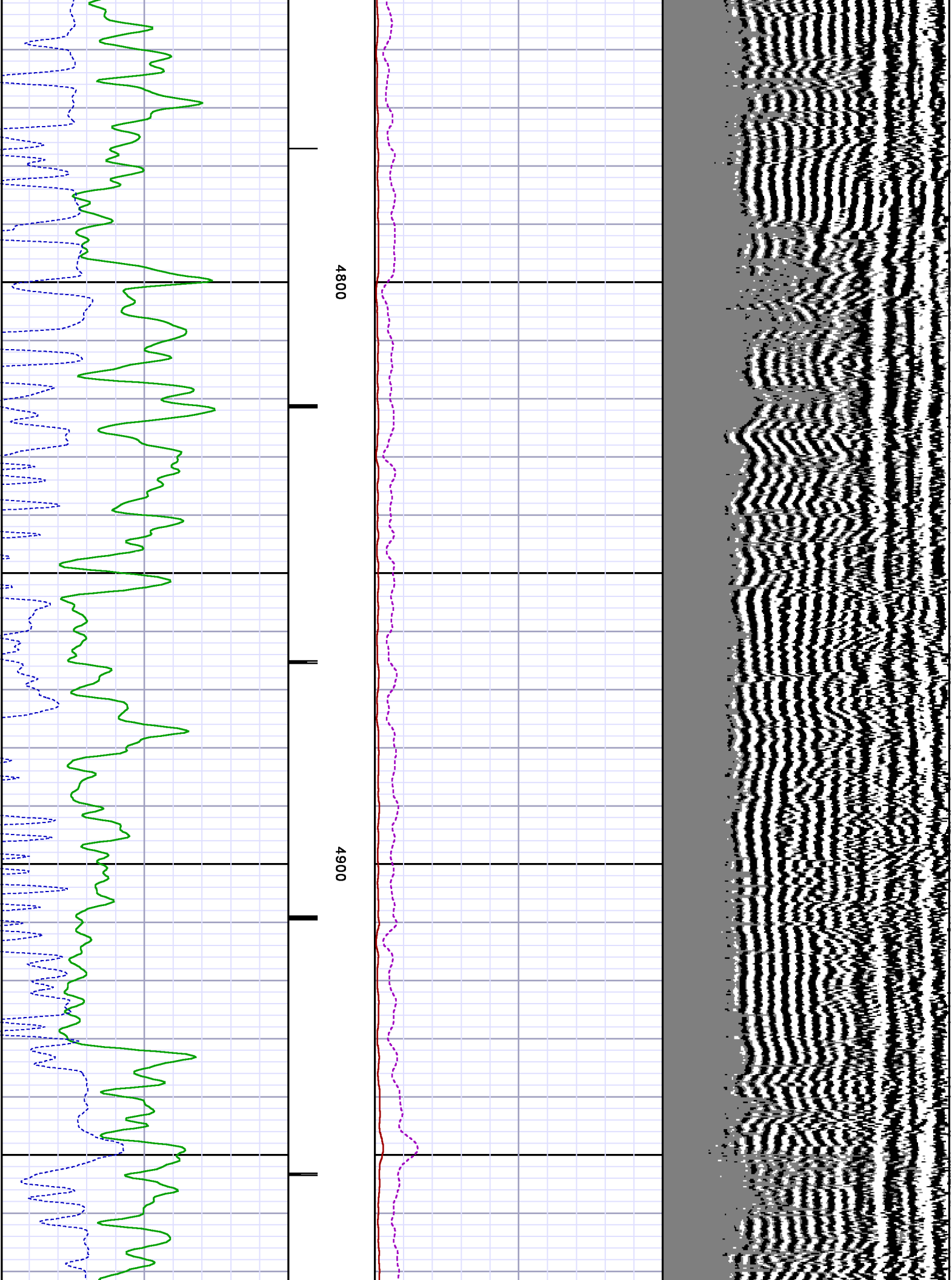


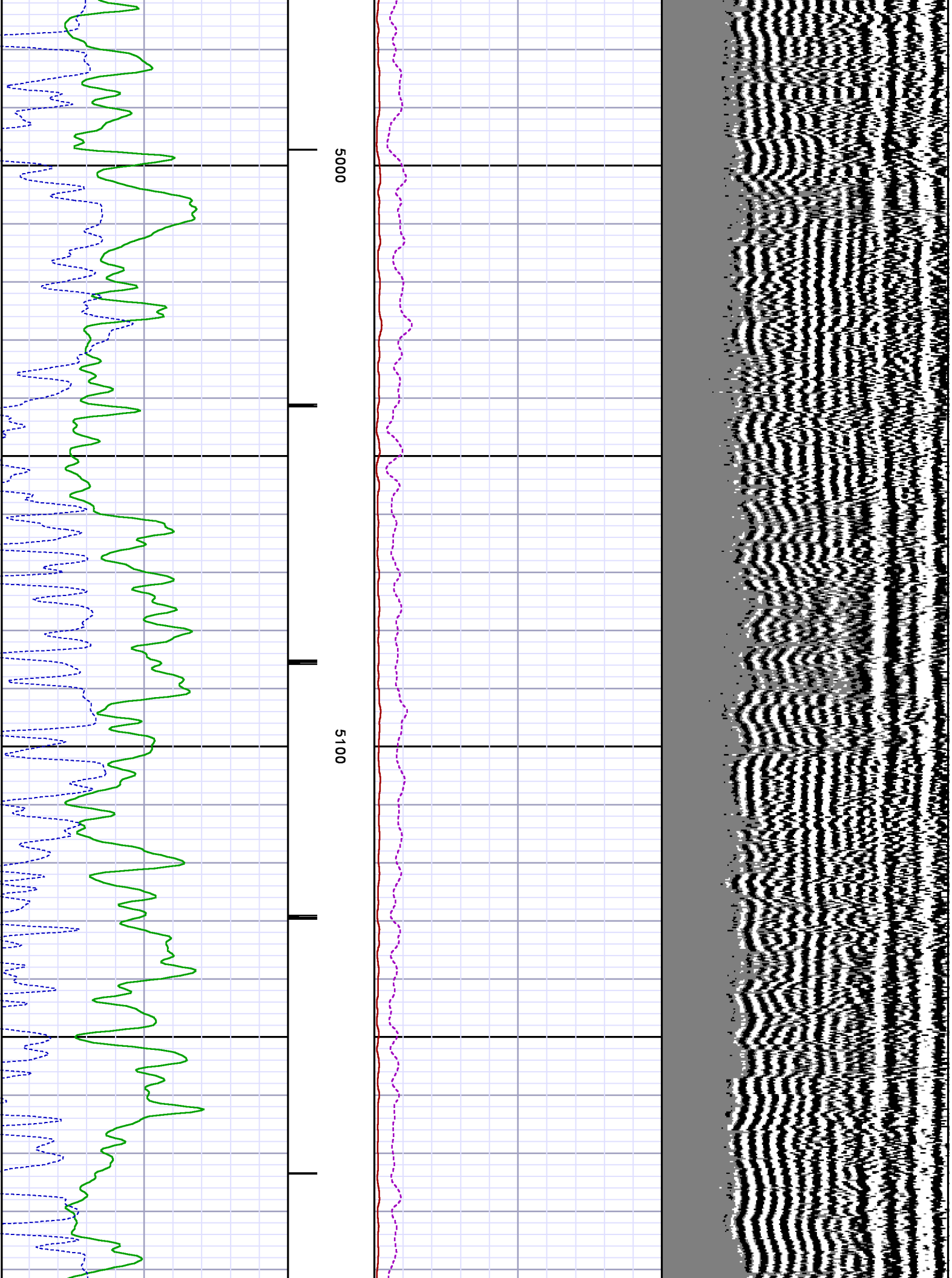


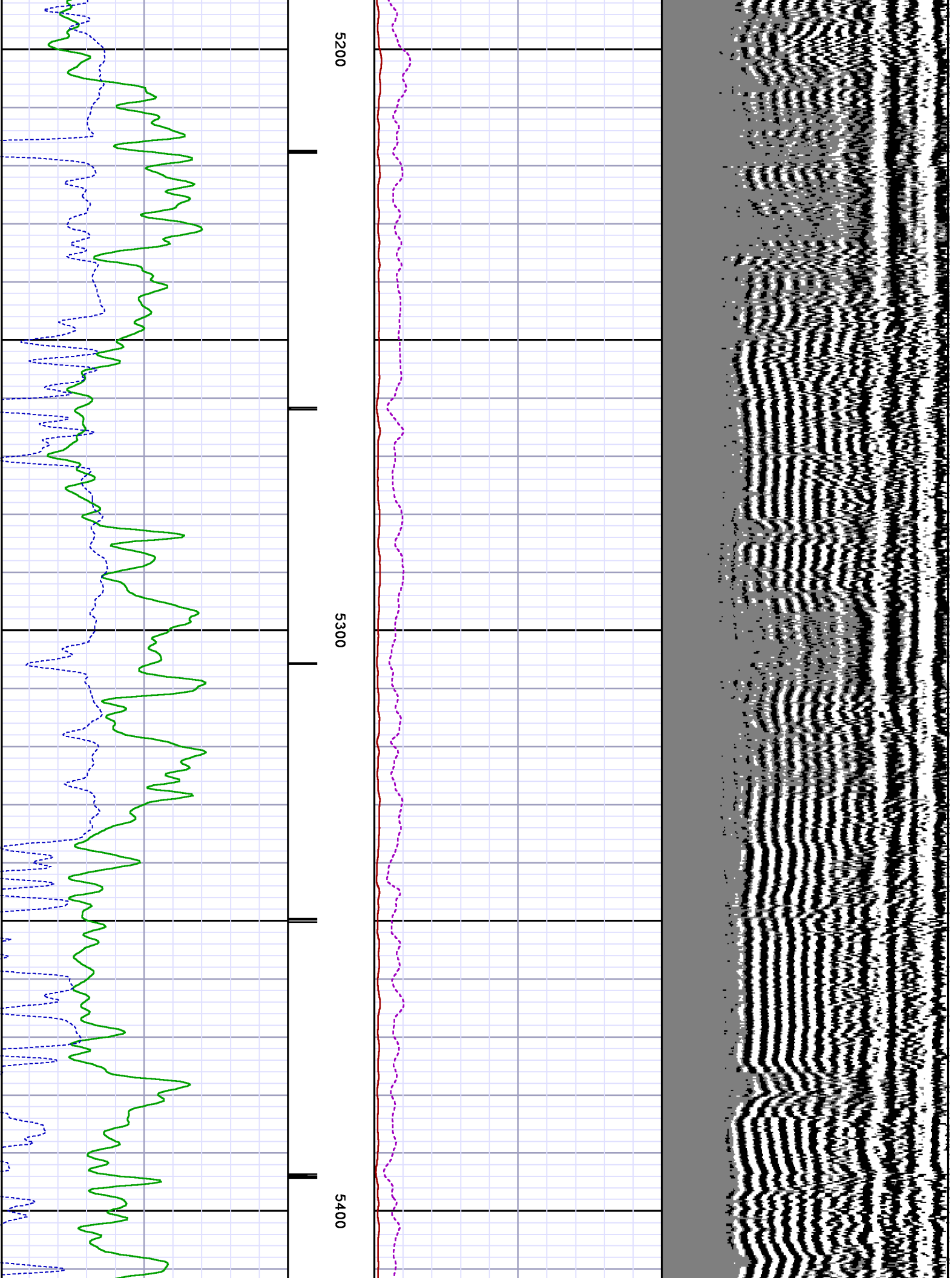


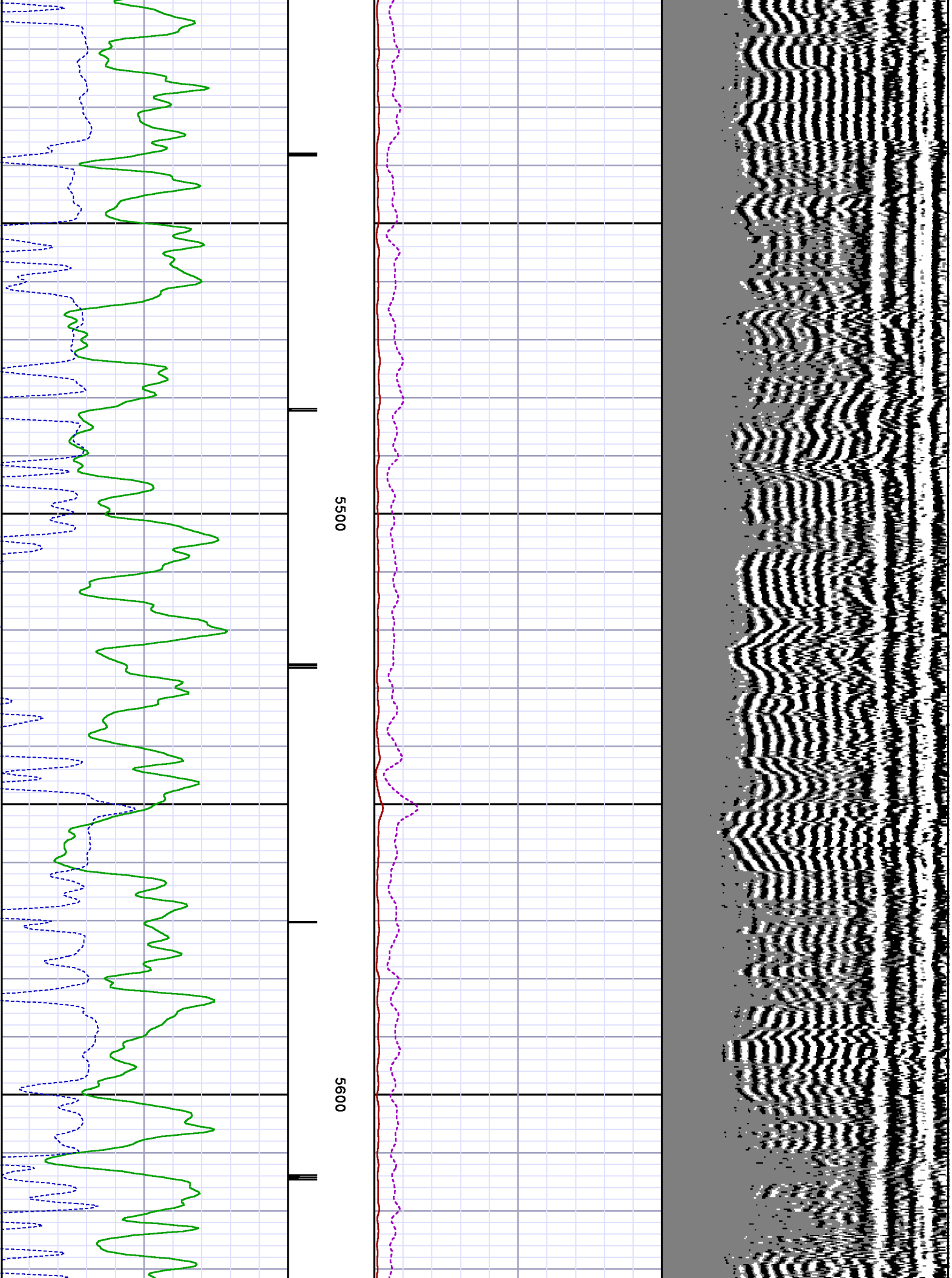


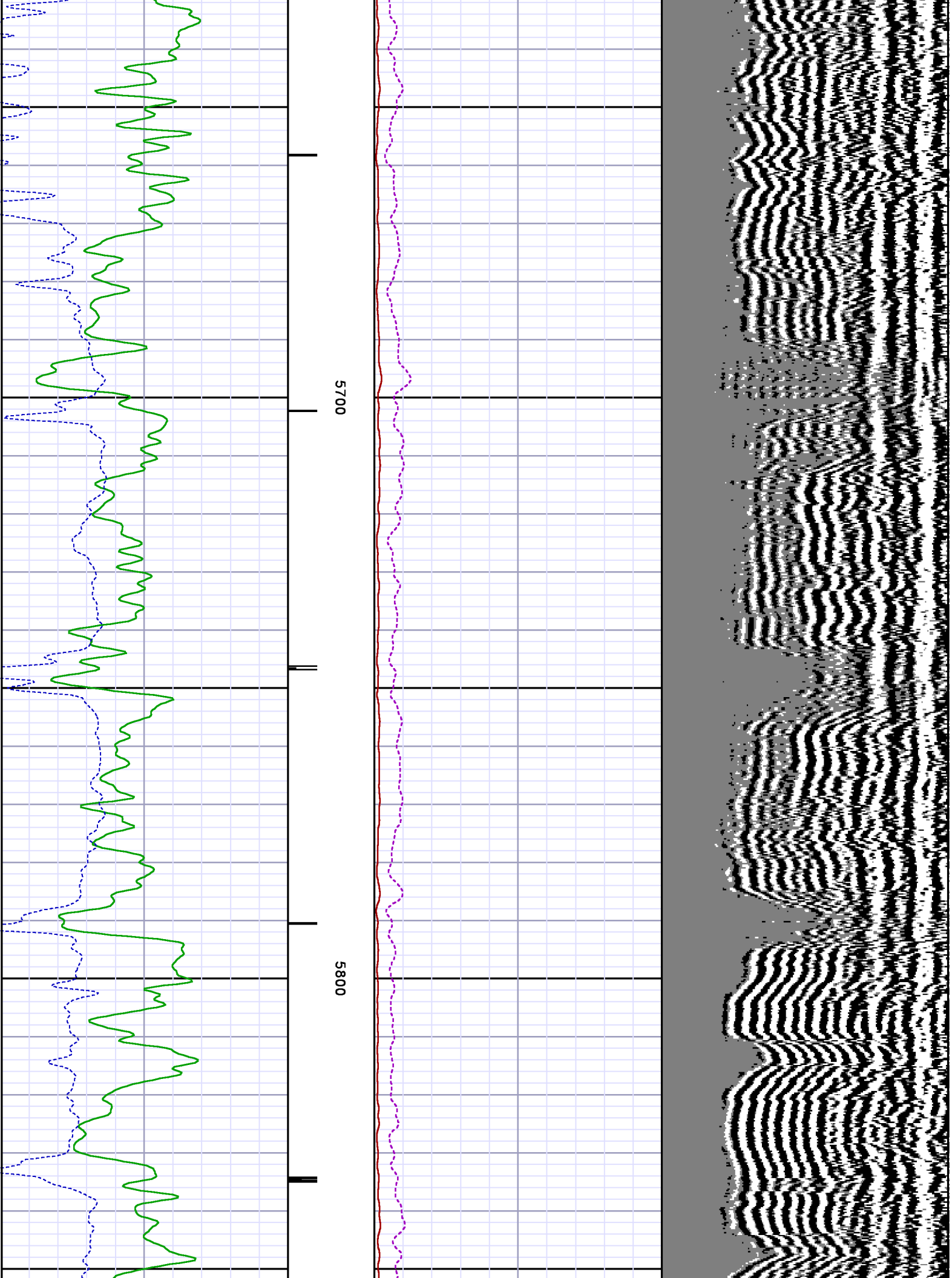








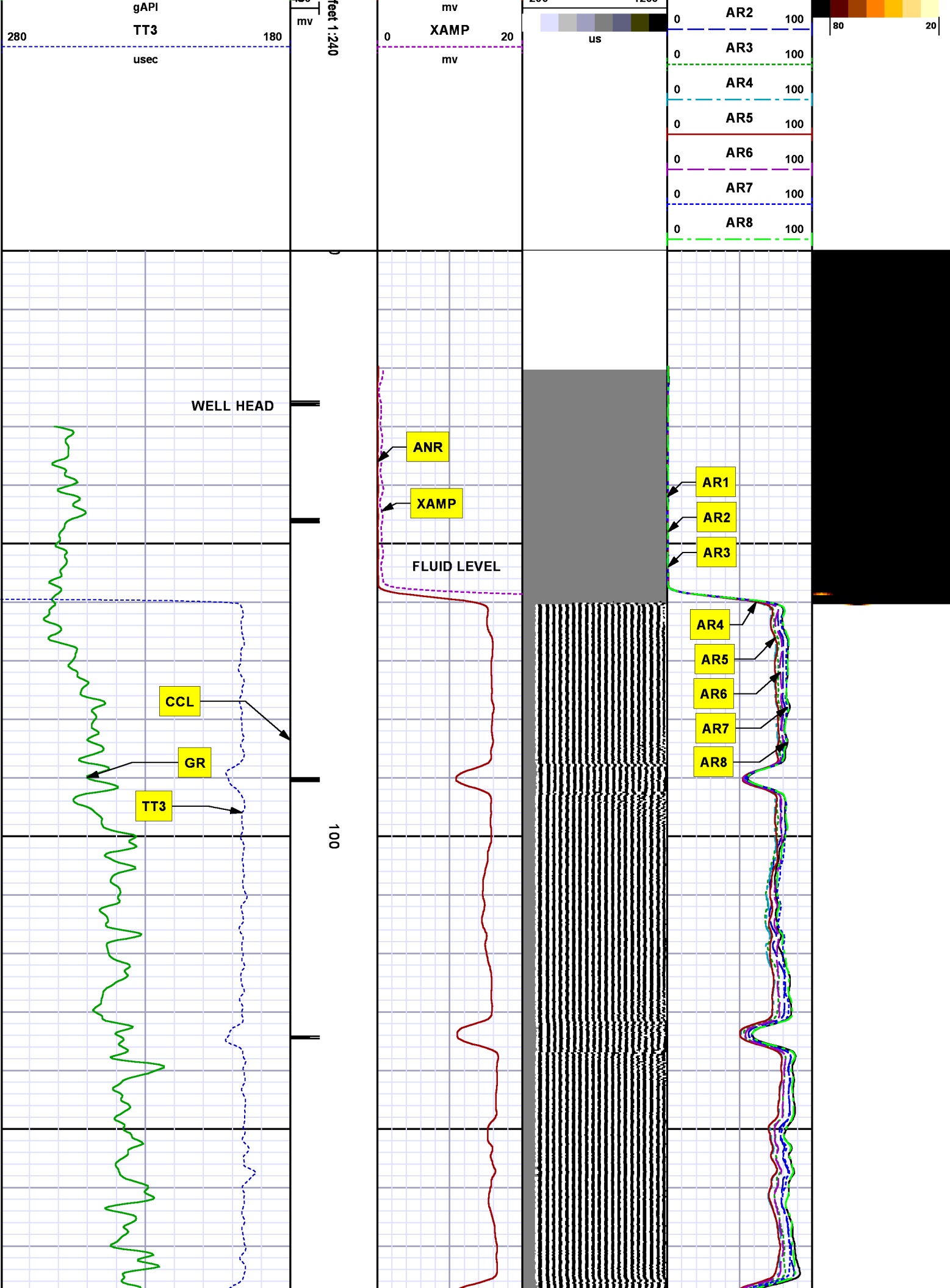


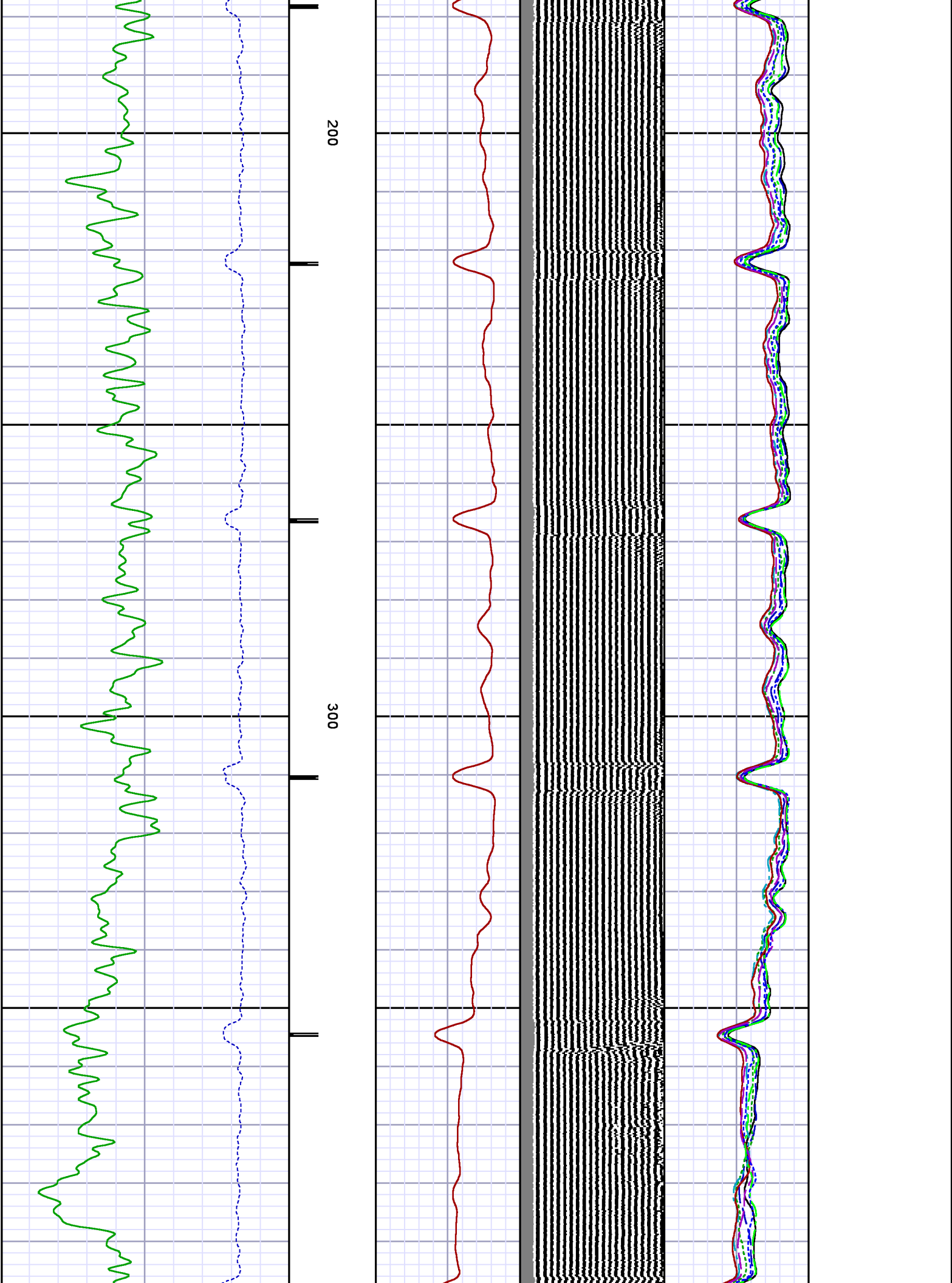


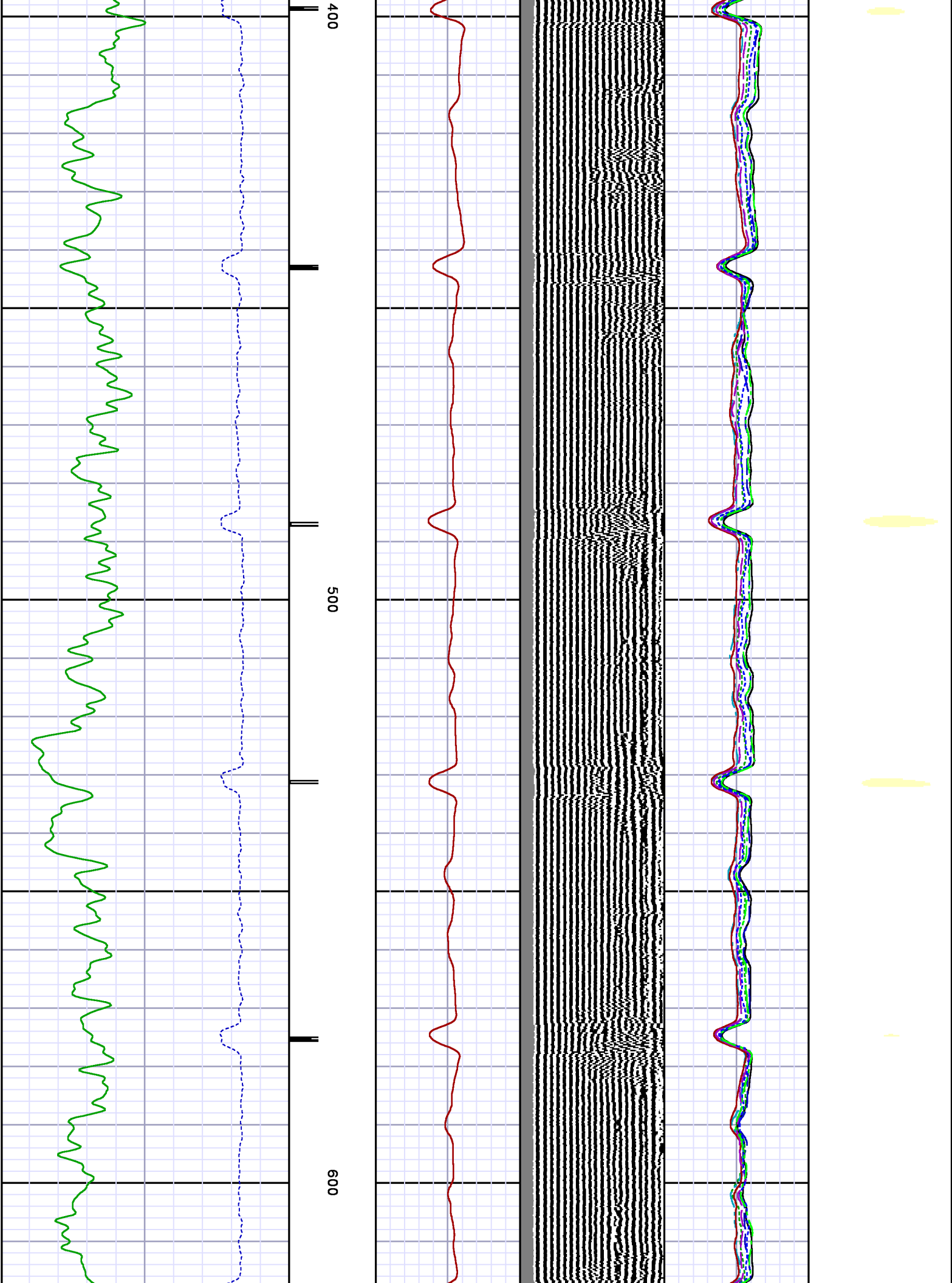
MEASUREMENT TYPE					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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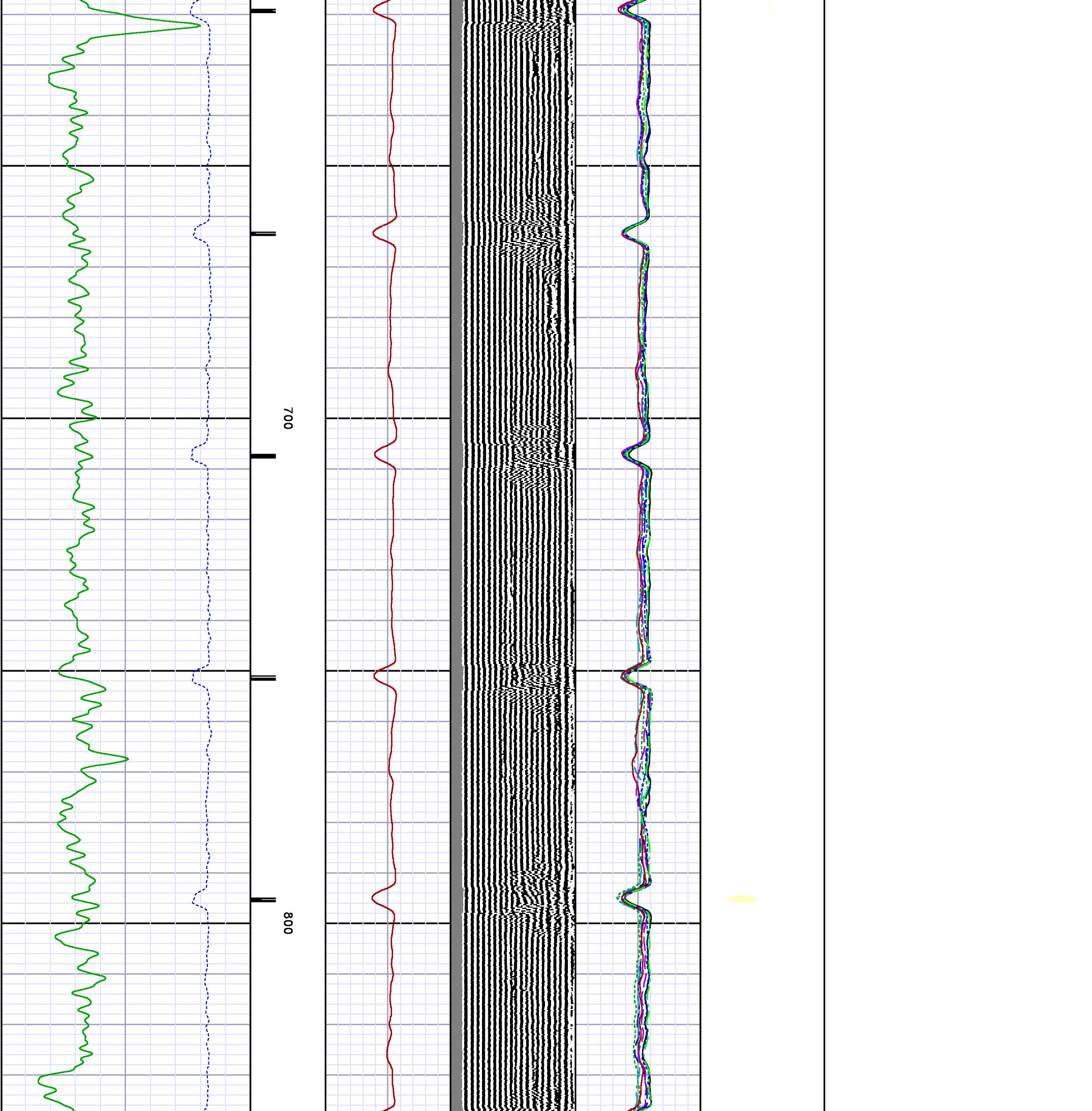
DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

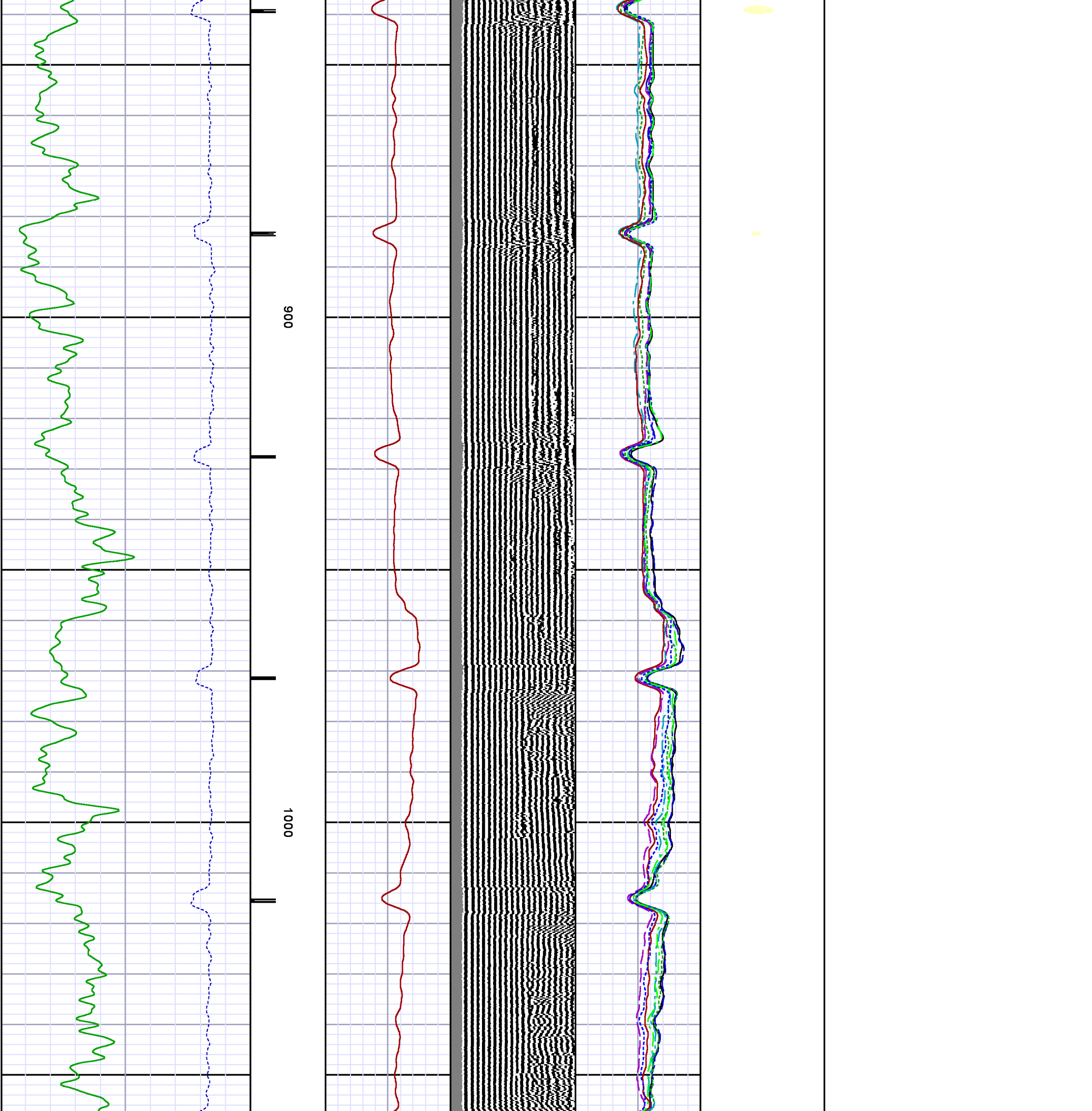
Created by : RAL, v4.8.008							
Plotted by : PlotMgr, v5.4.504							
Company : WPX ENERGY							
Well : STRAIT SG 431-22							
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Mode : PlotMgr 5.4.504							
Interval : 0.00 - 6010.00 feet UP							
Created : 8/18/2013 5:02:55 PM							
GR		CCL	ANR		Variable Density	AR1	PBMAP
0	150	MD	0	100	200	100	360

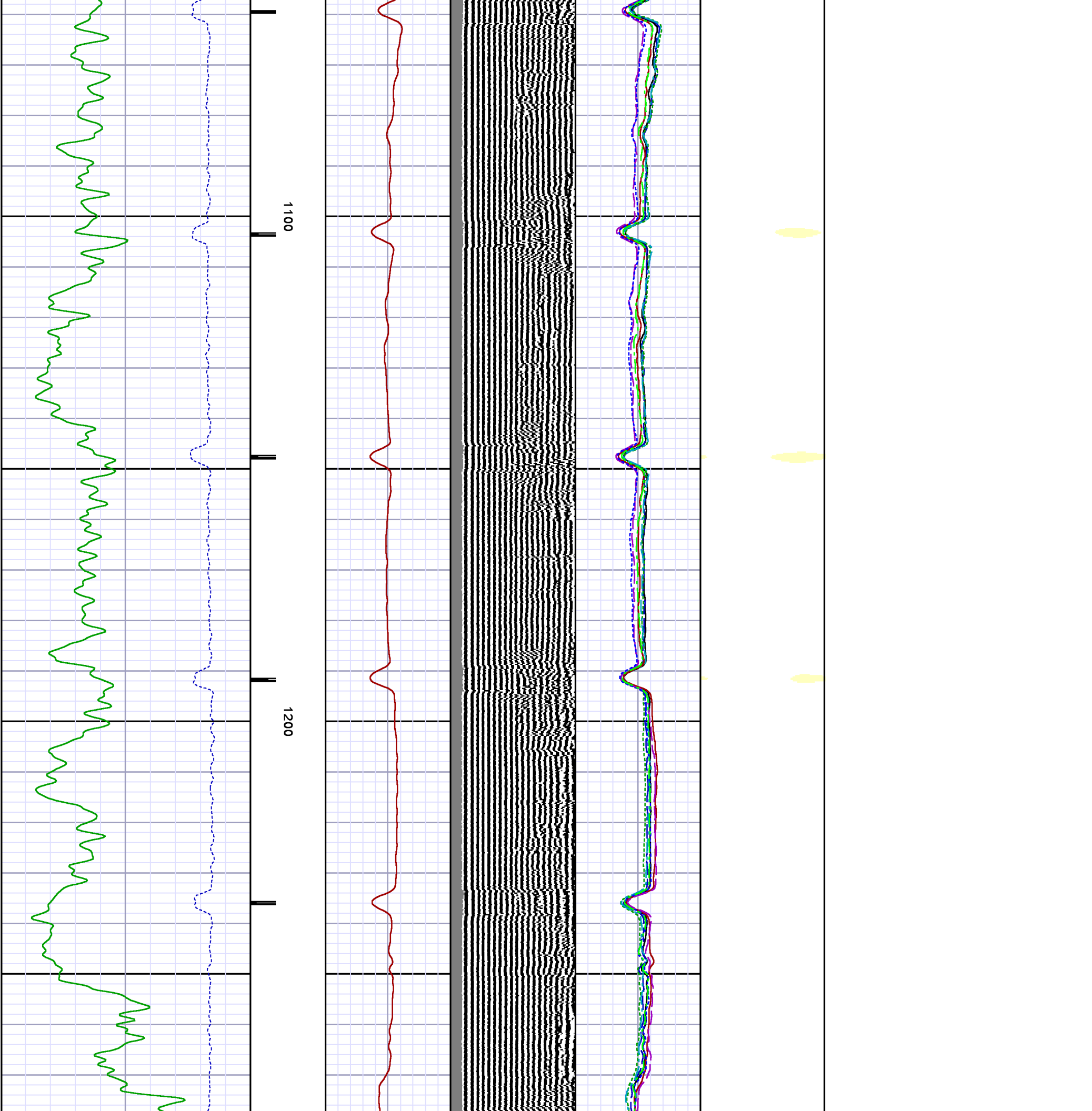


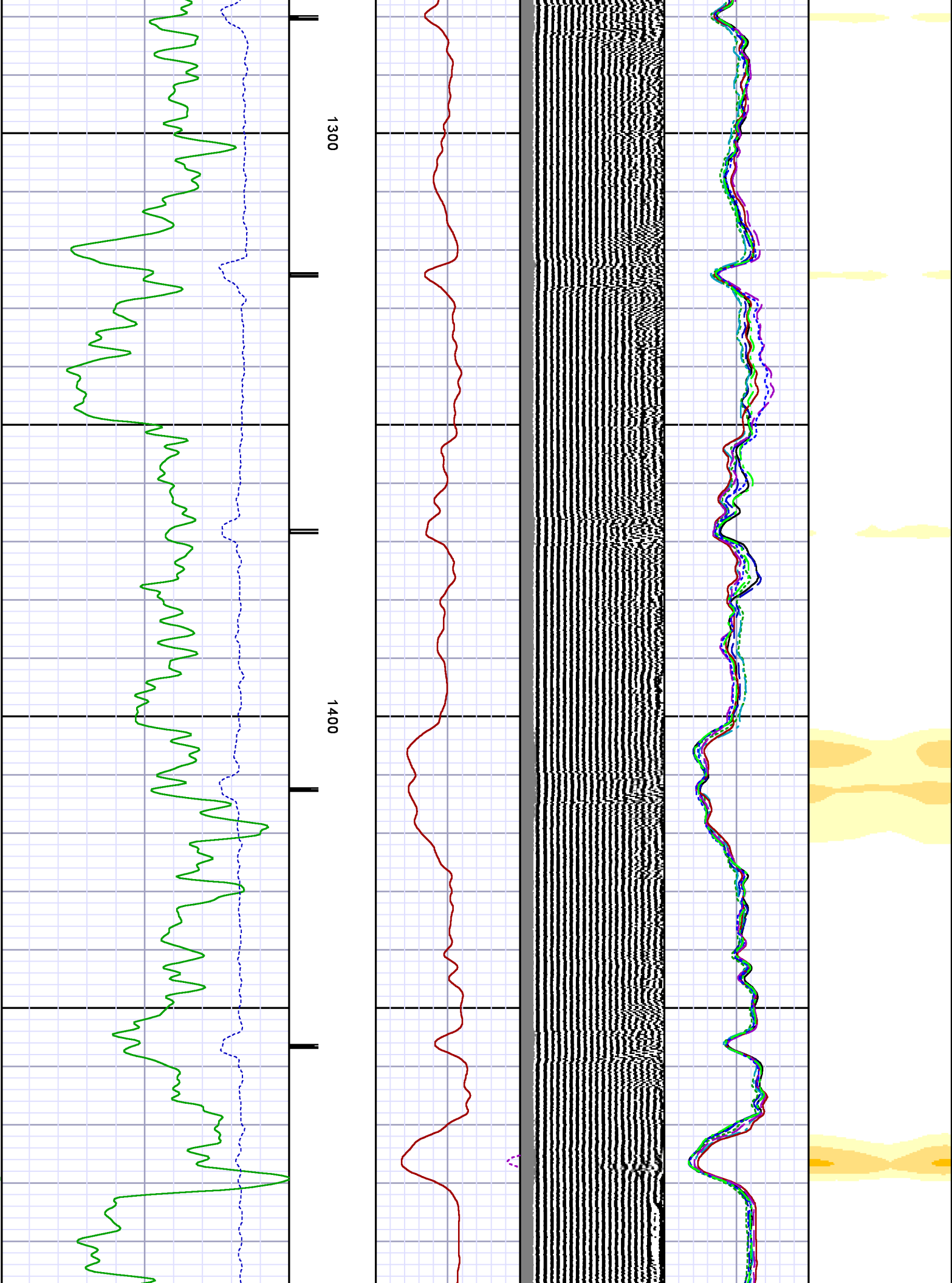


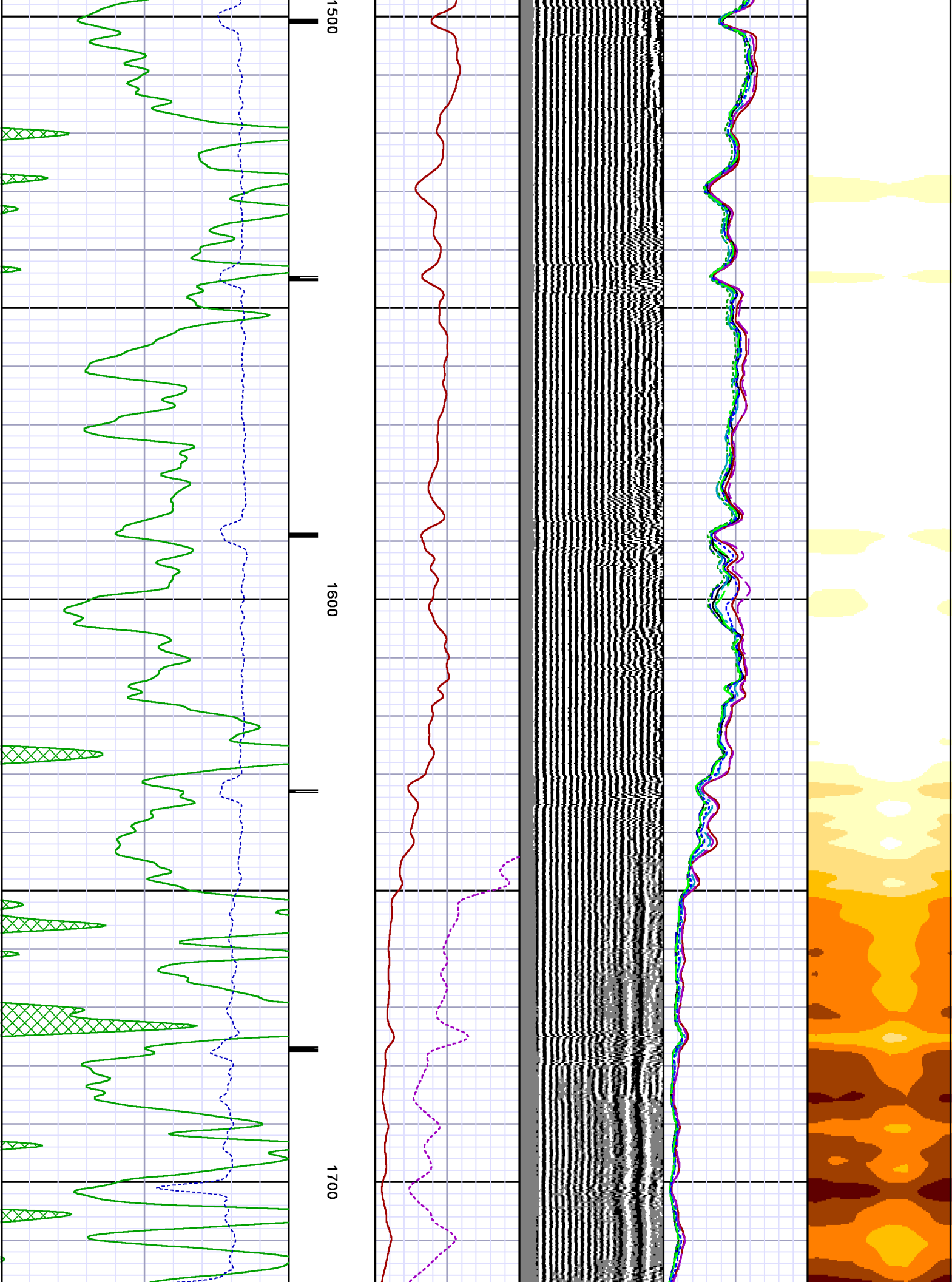


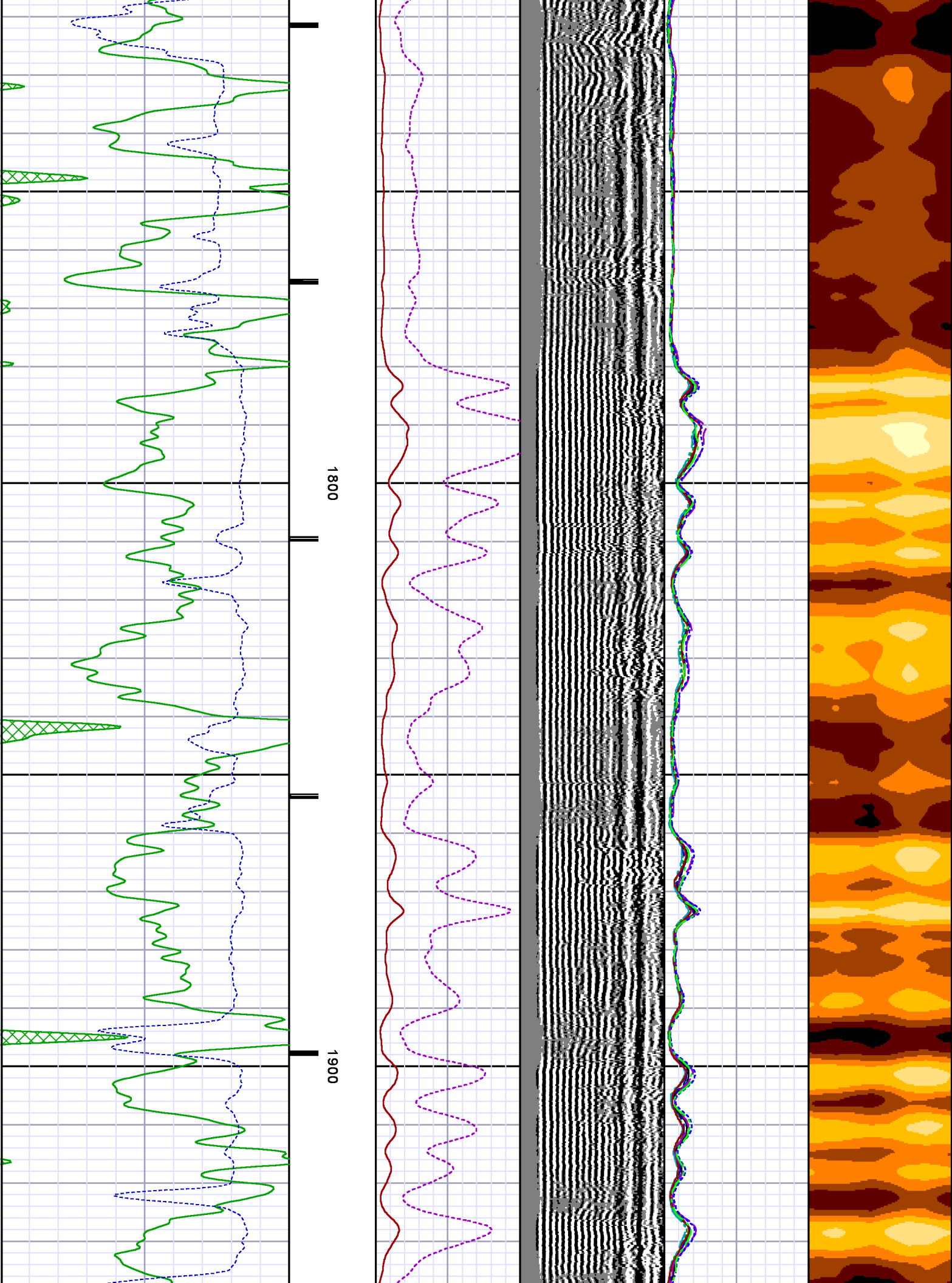


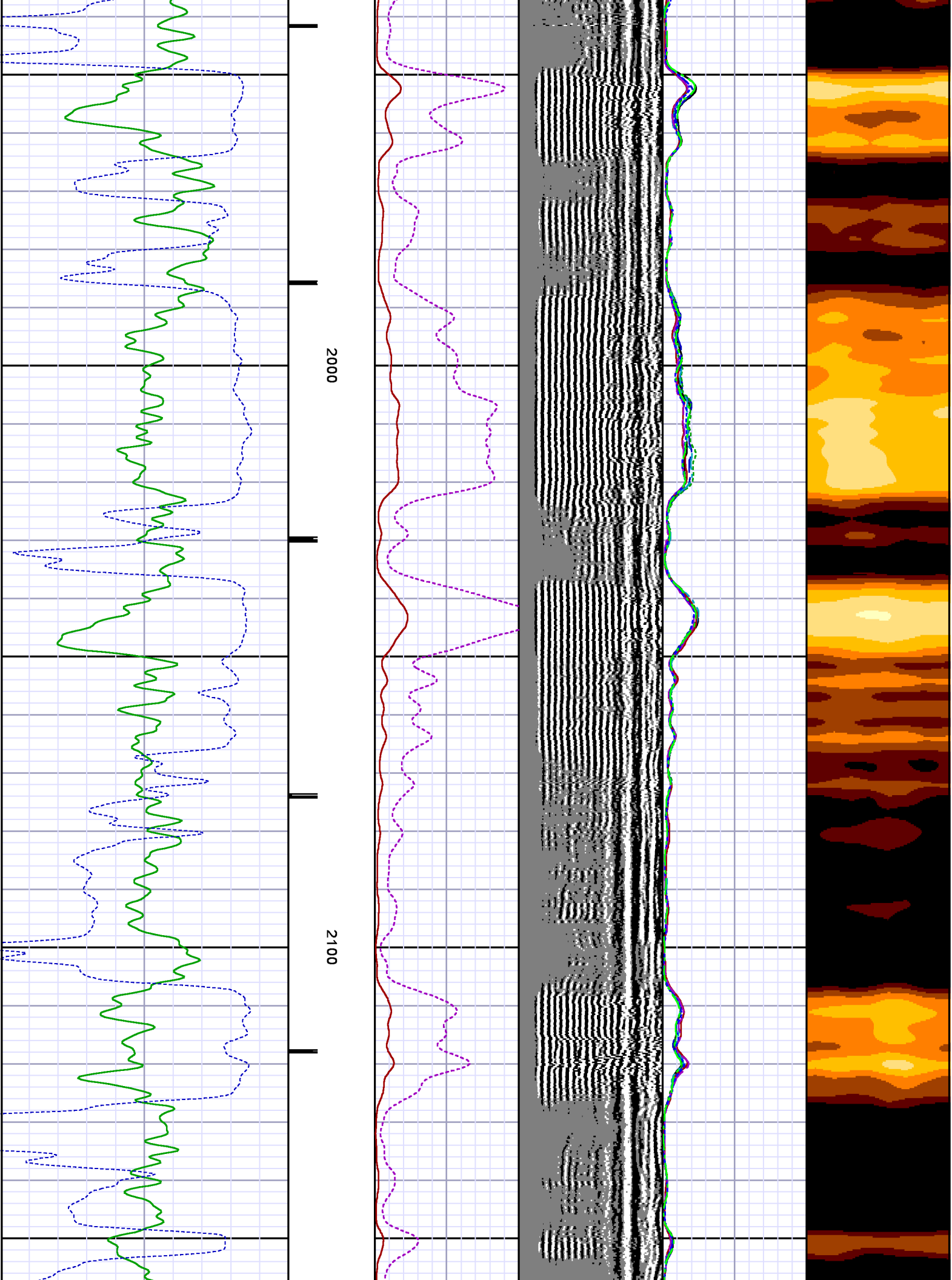


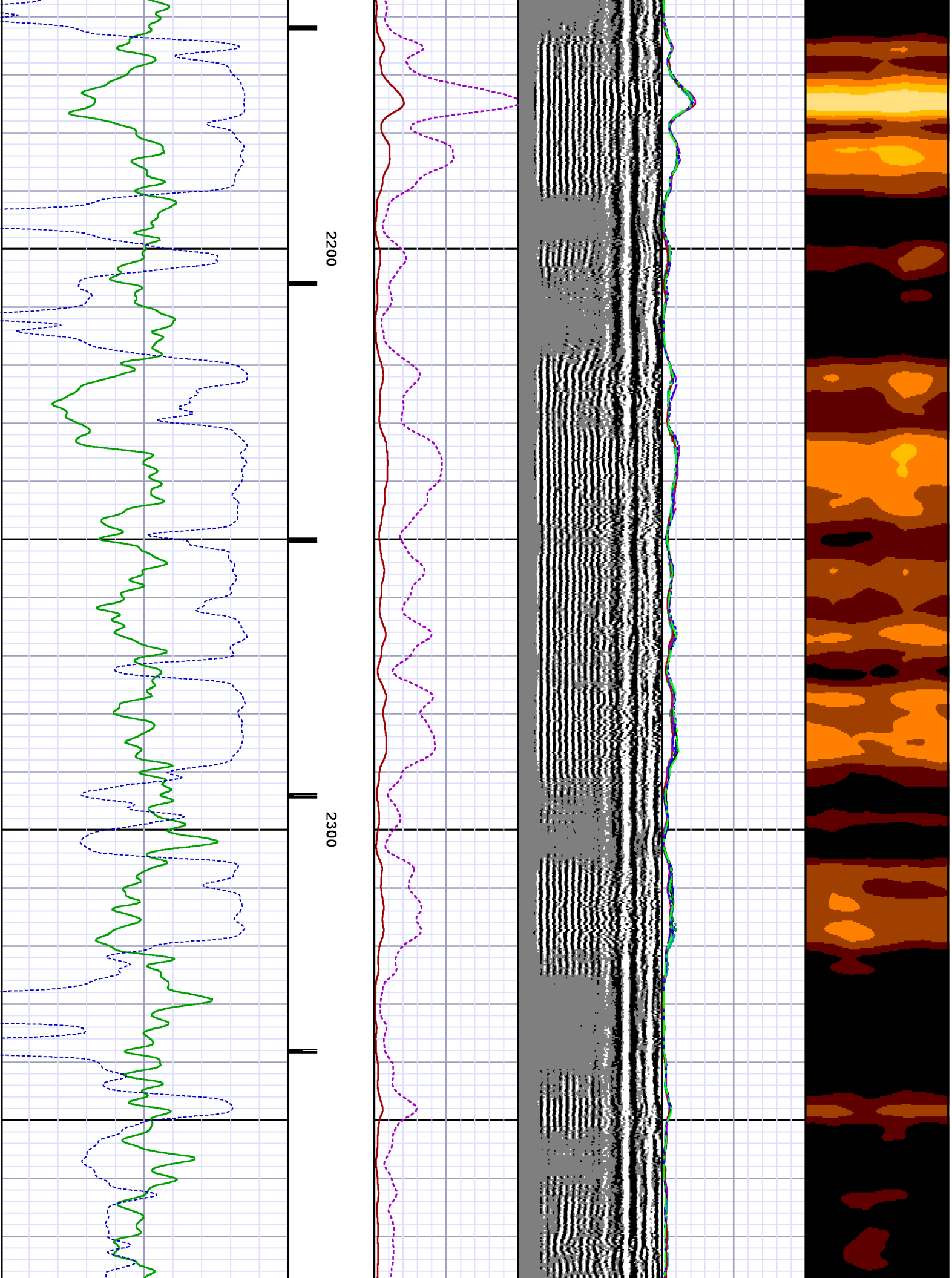


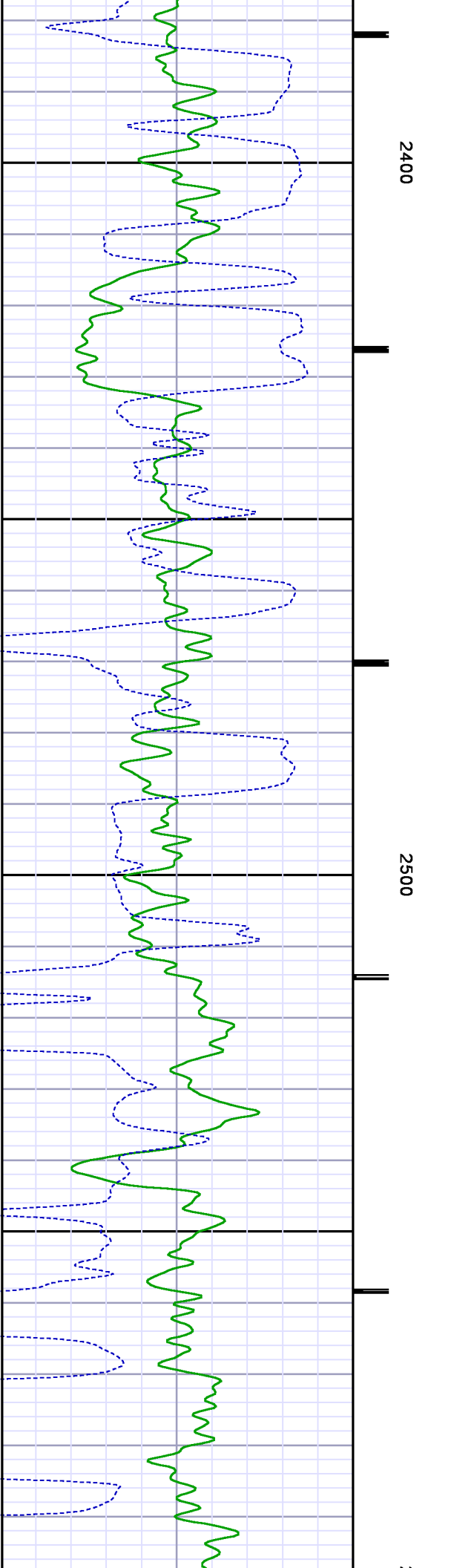
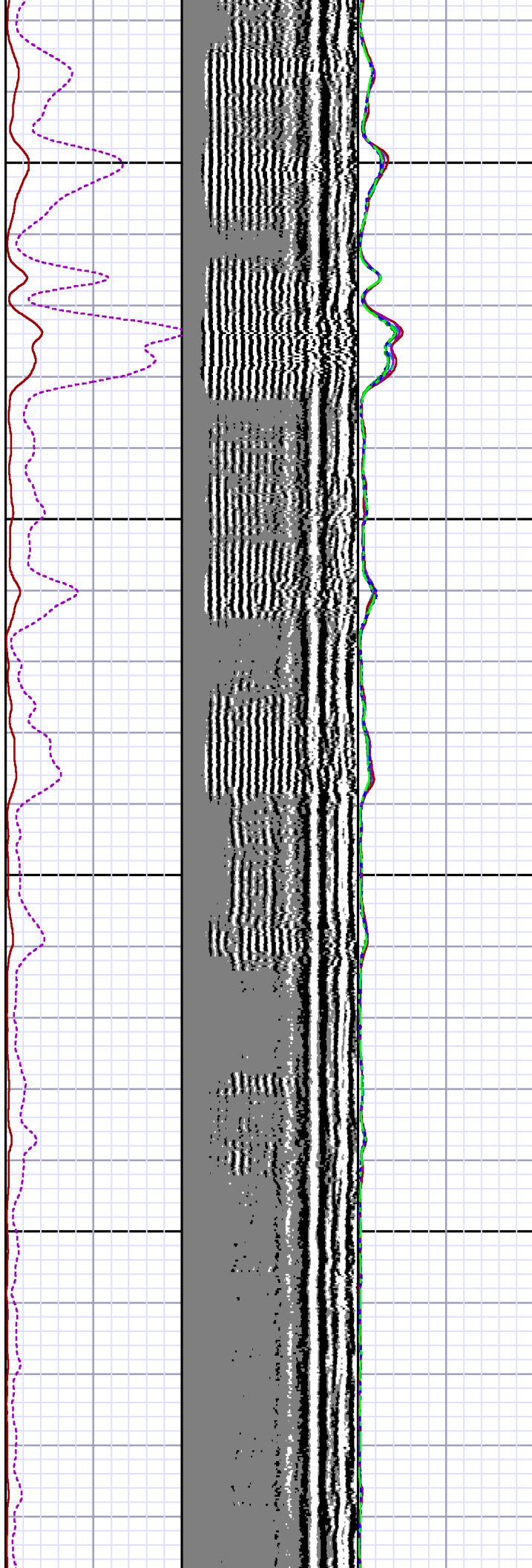
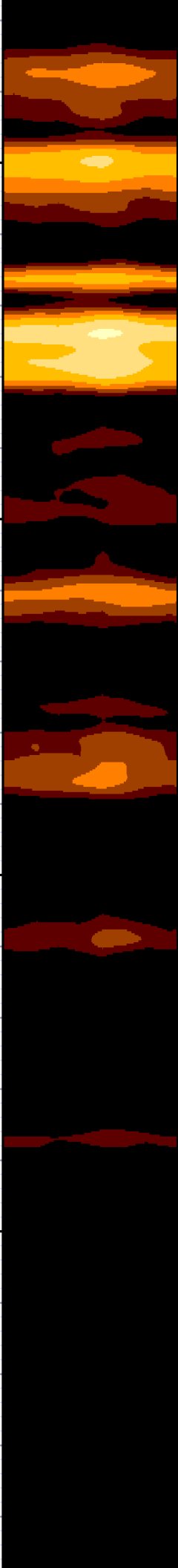


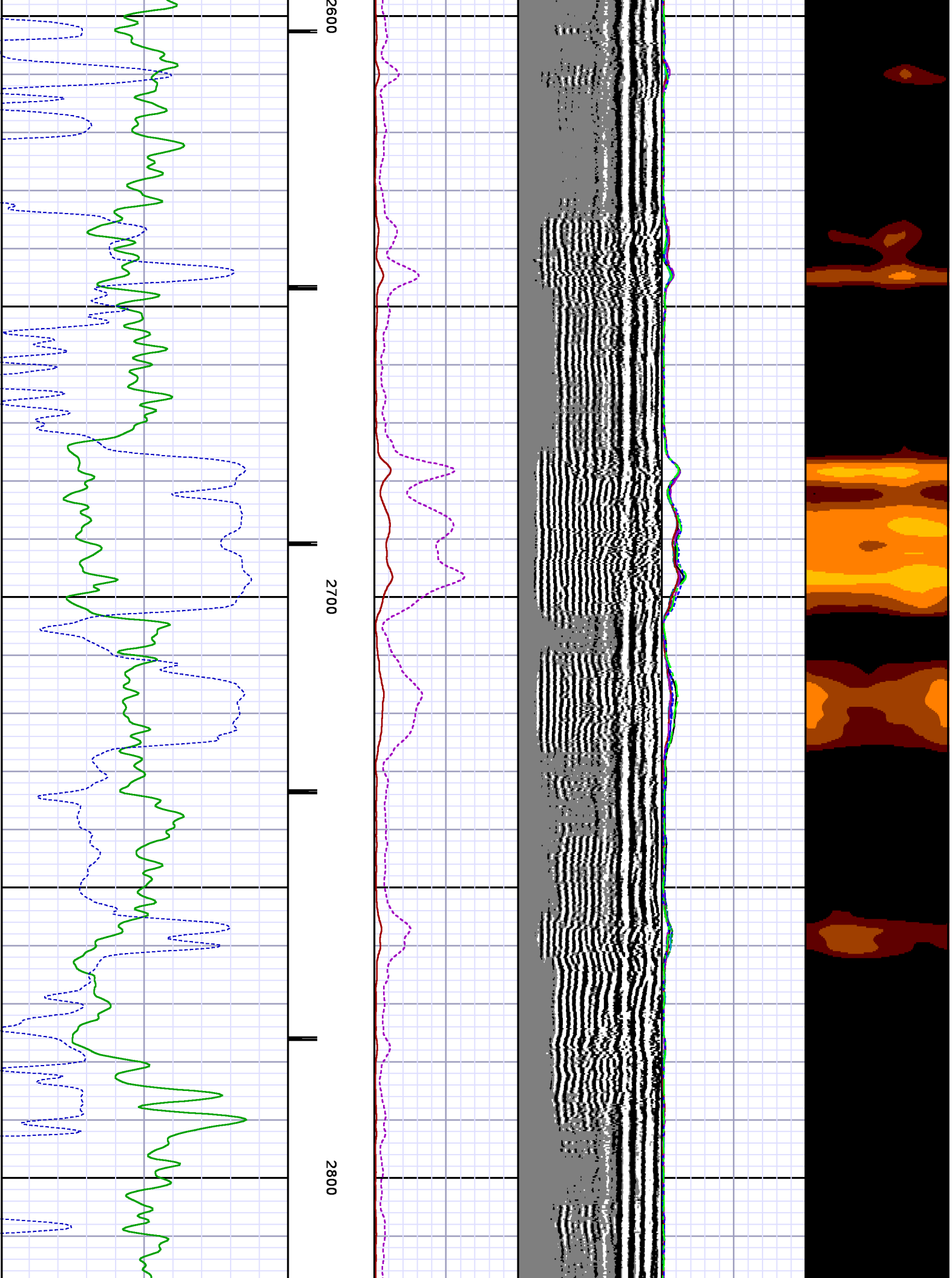


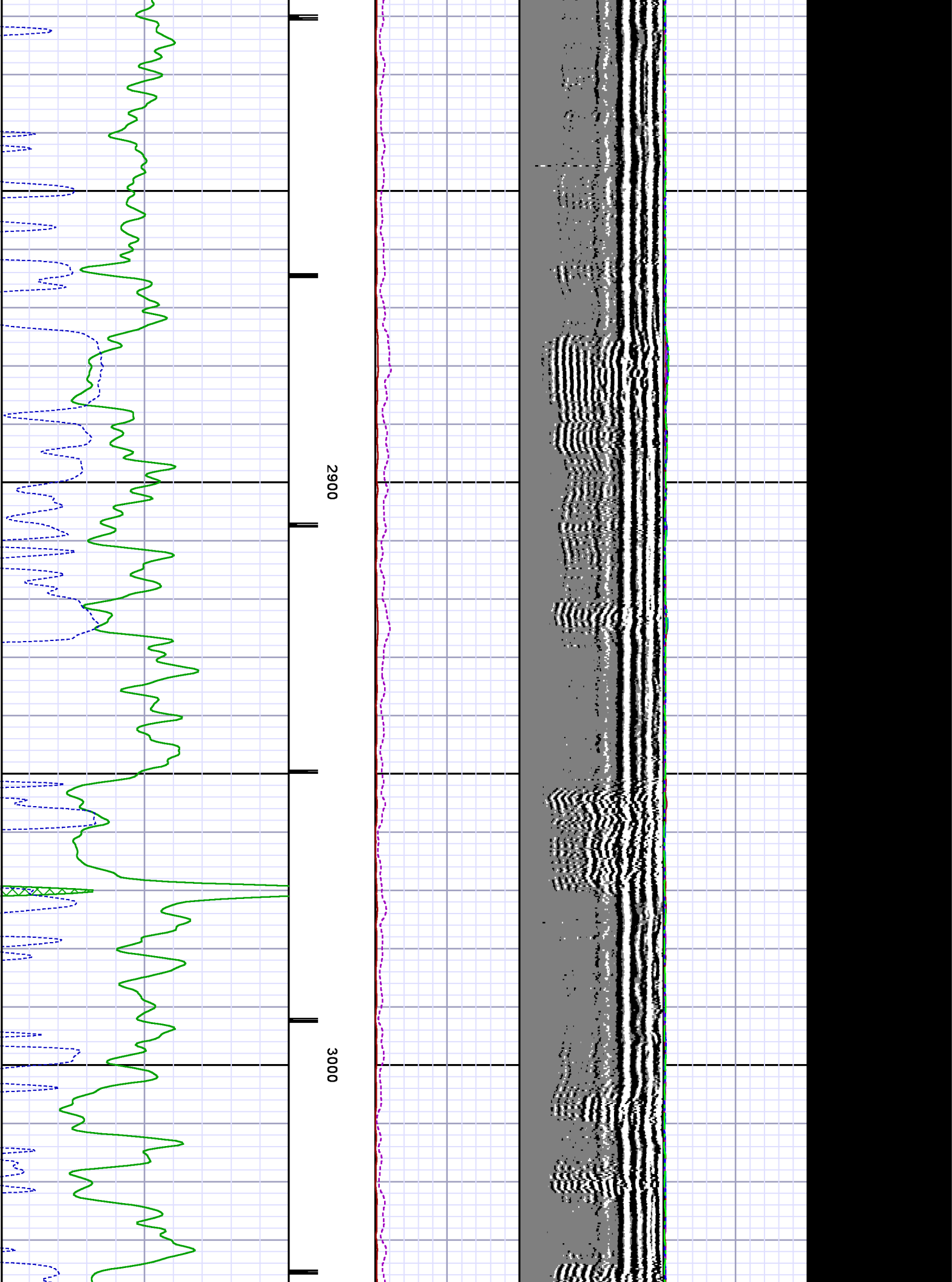


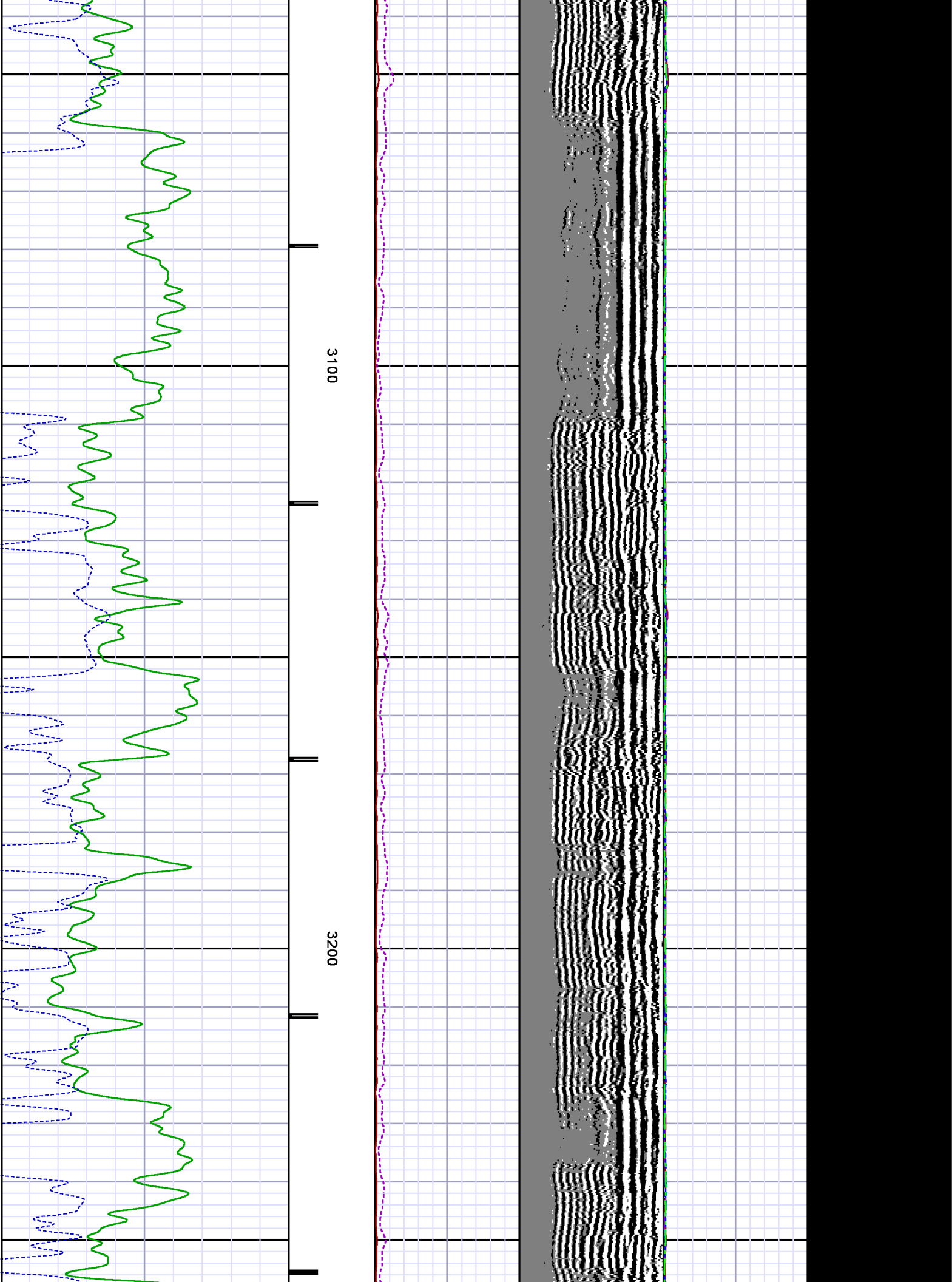


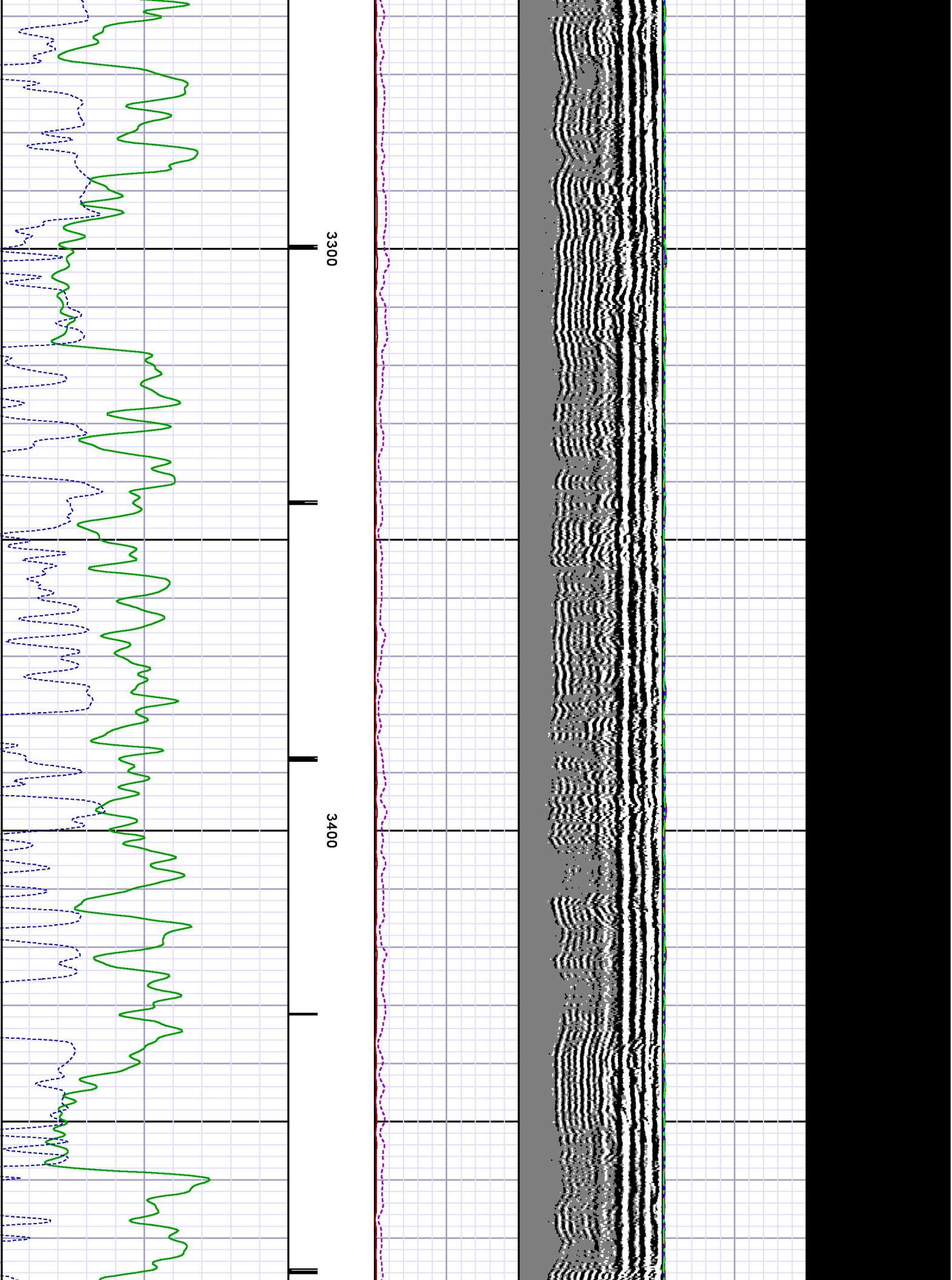


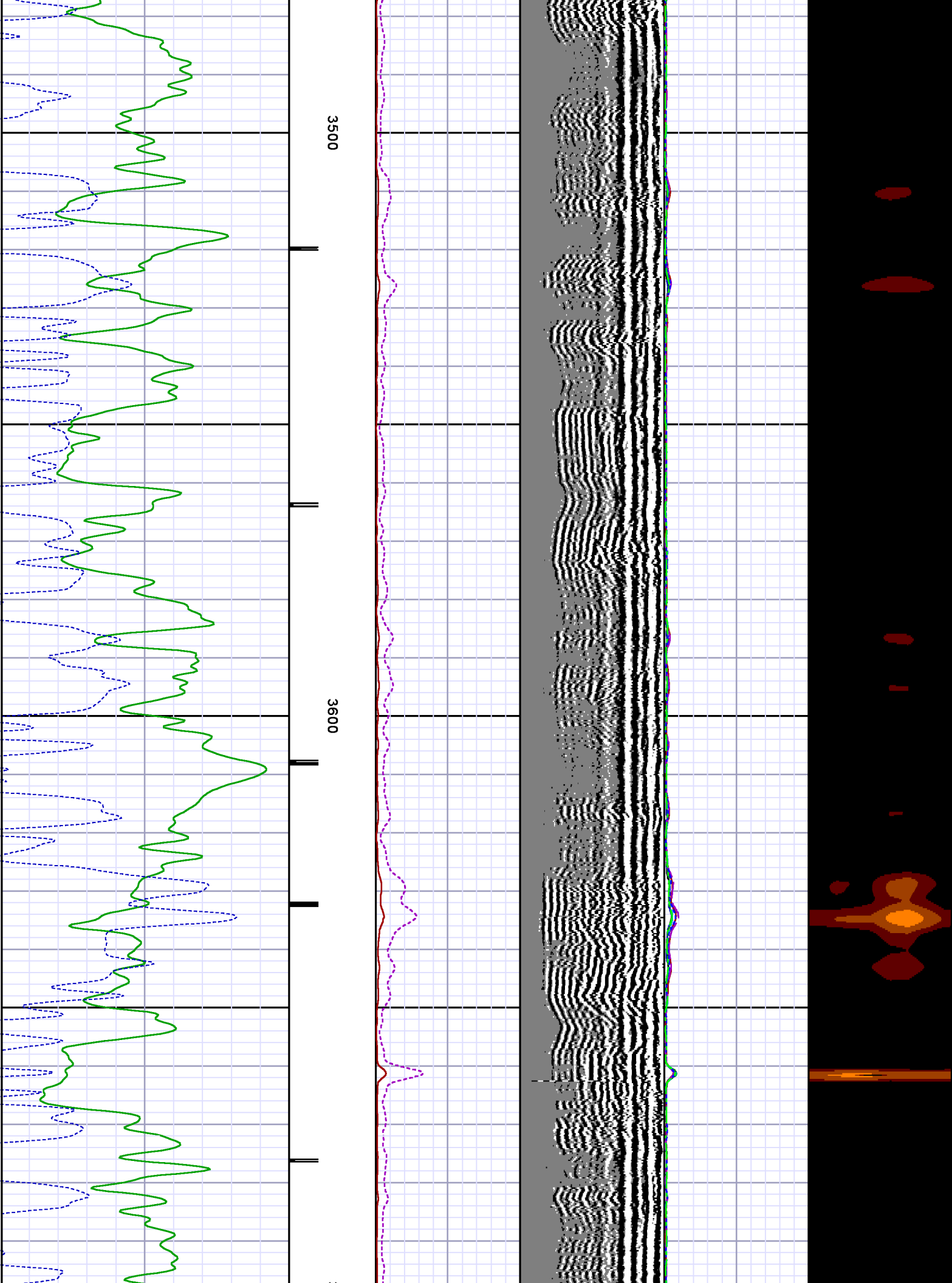


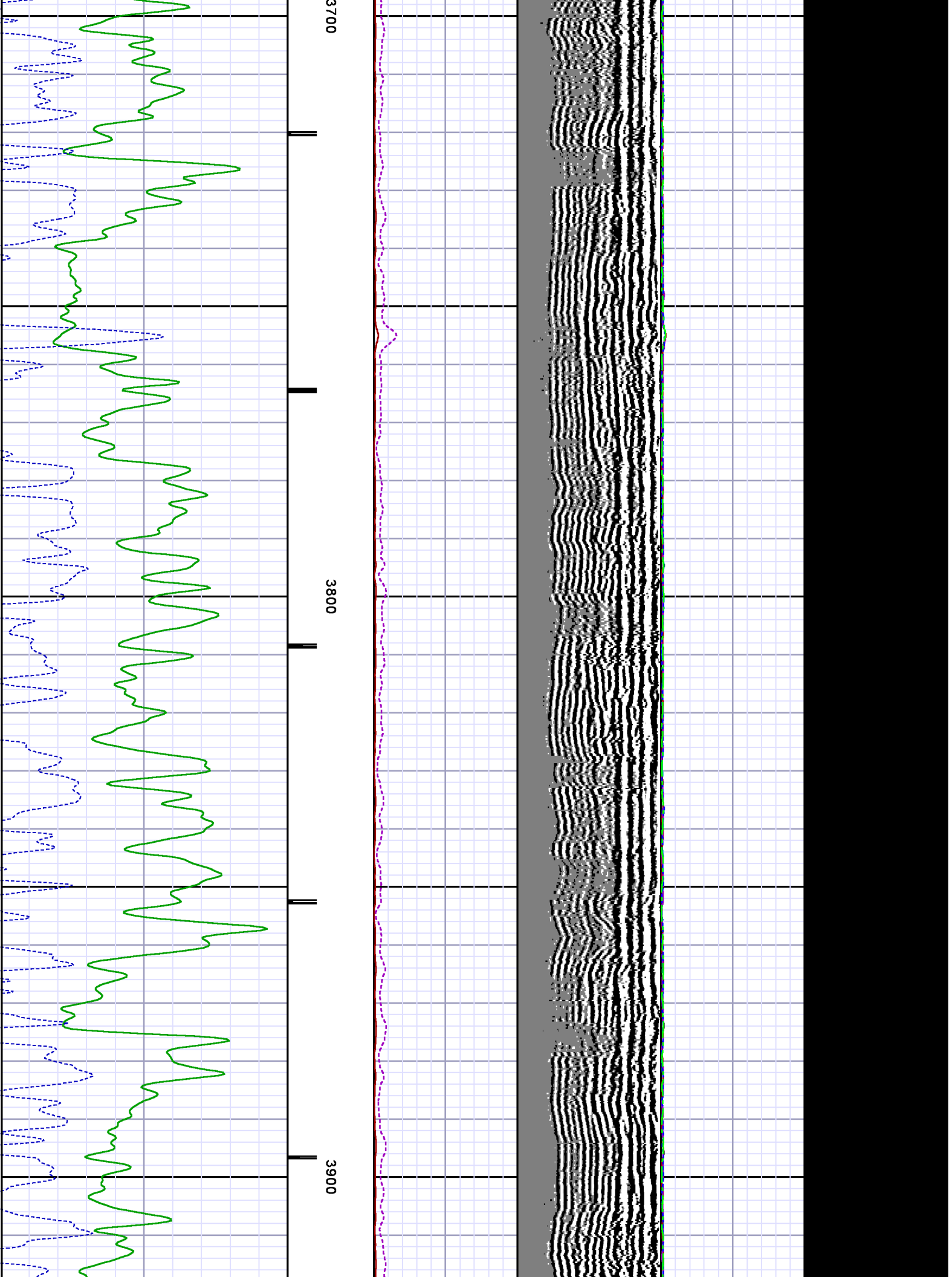


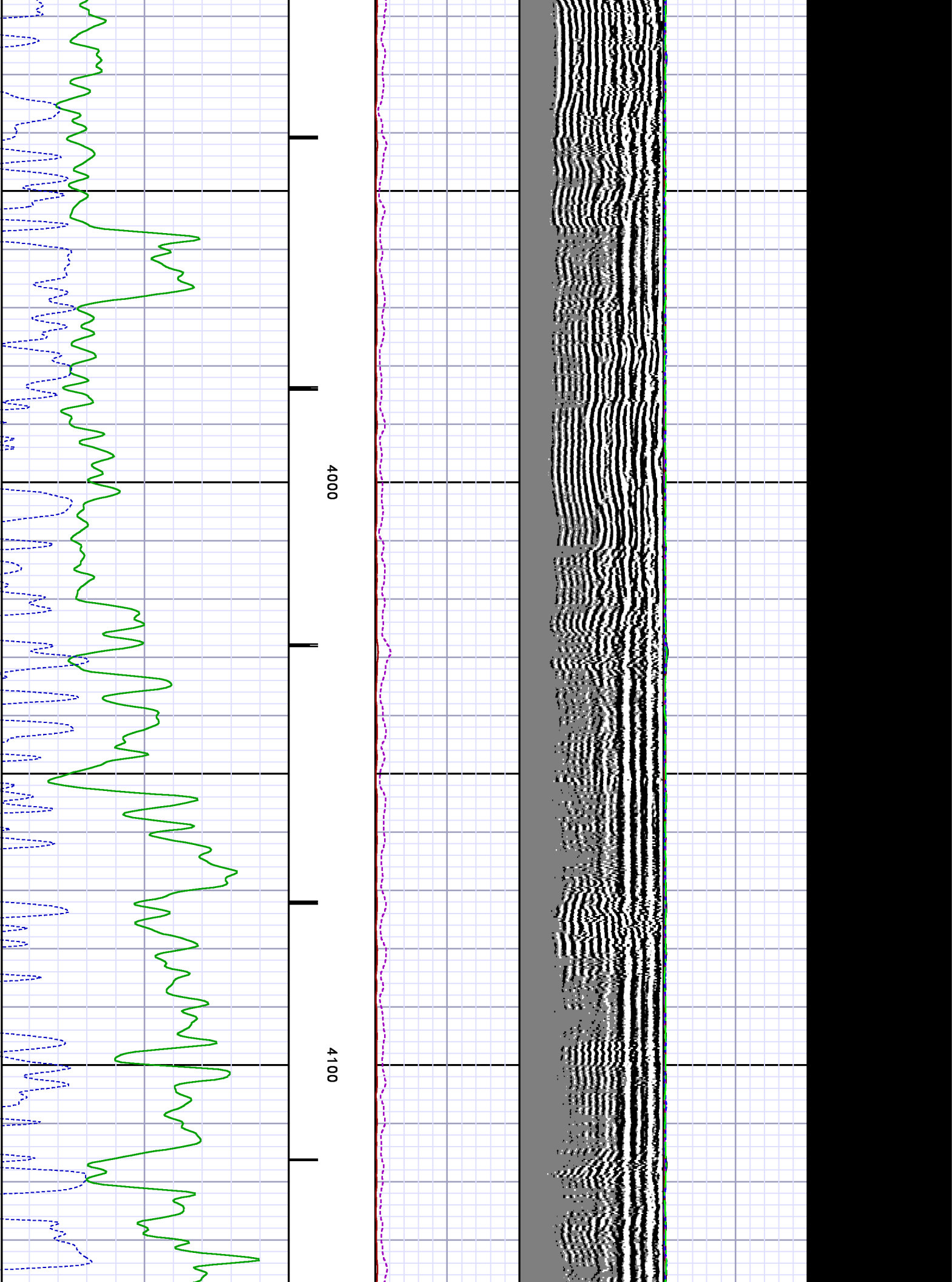


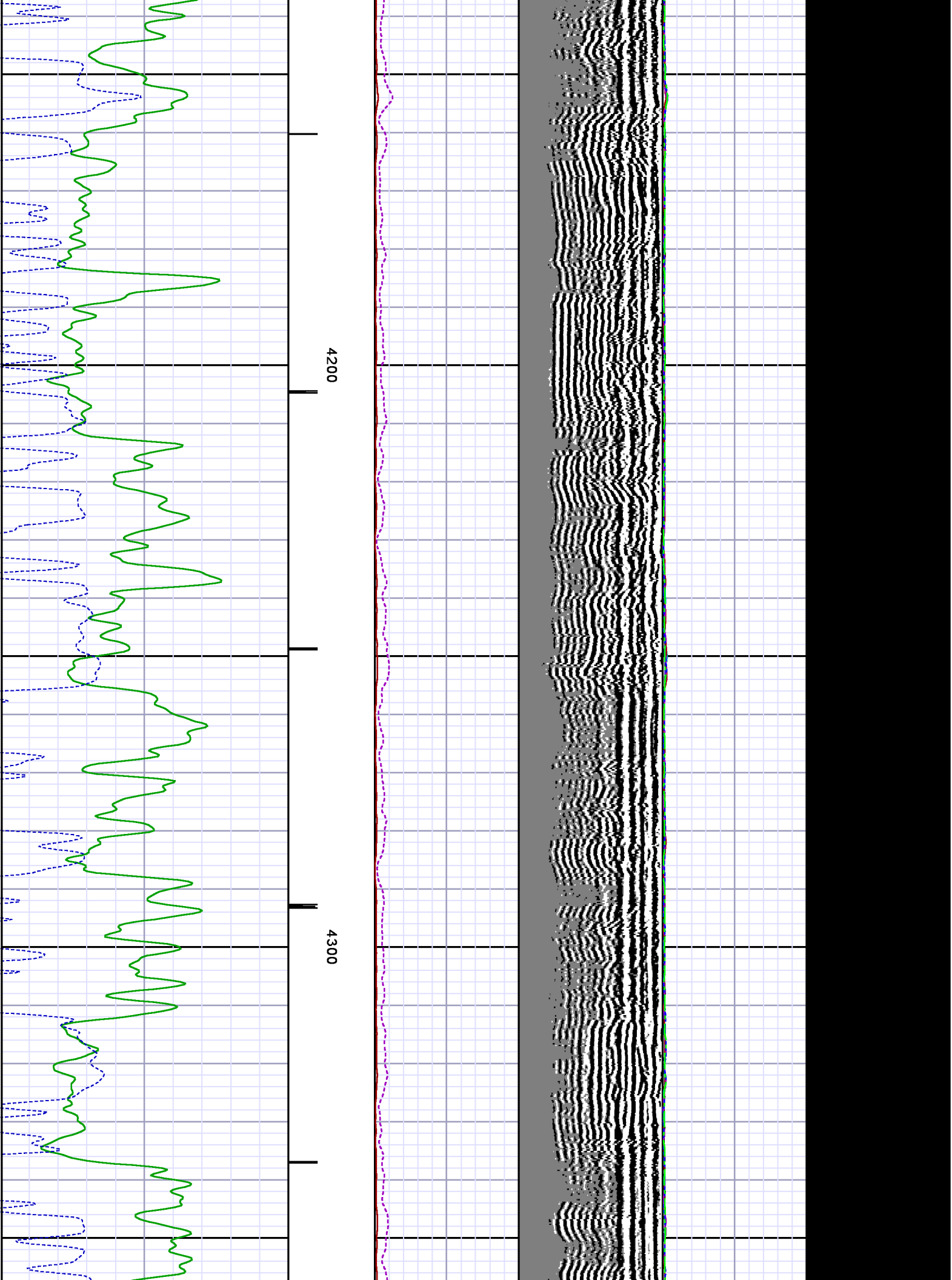


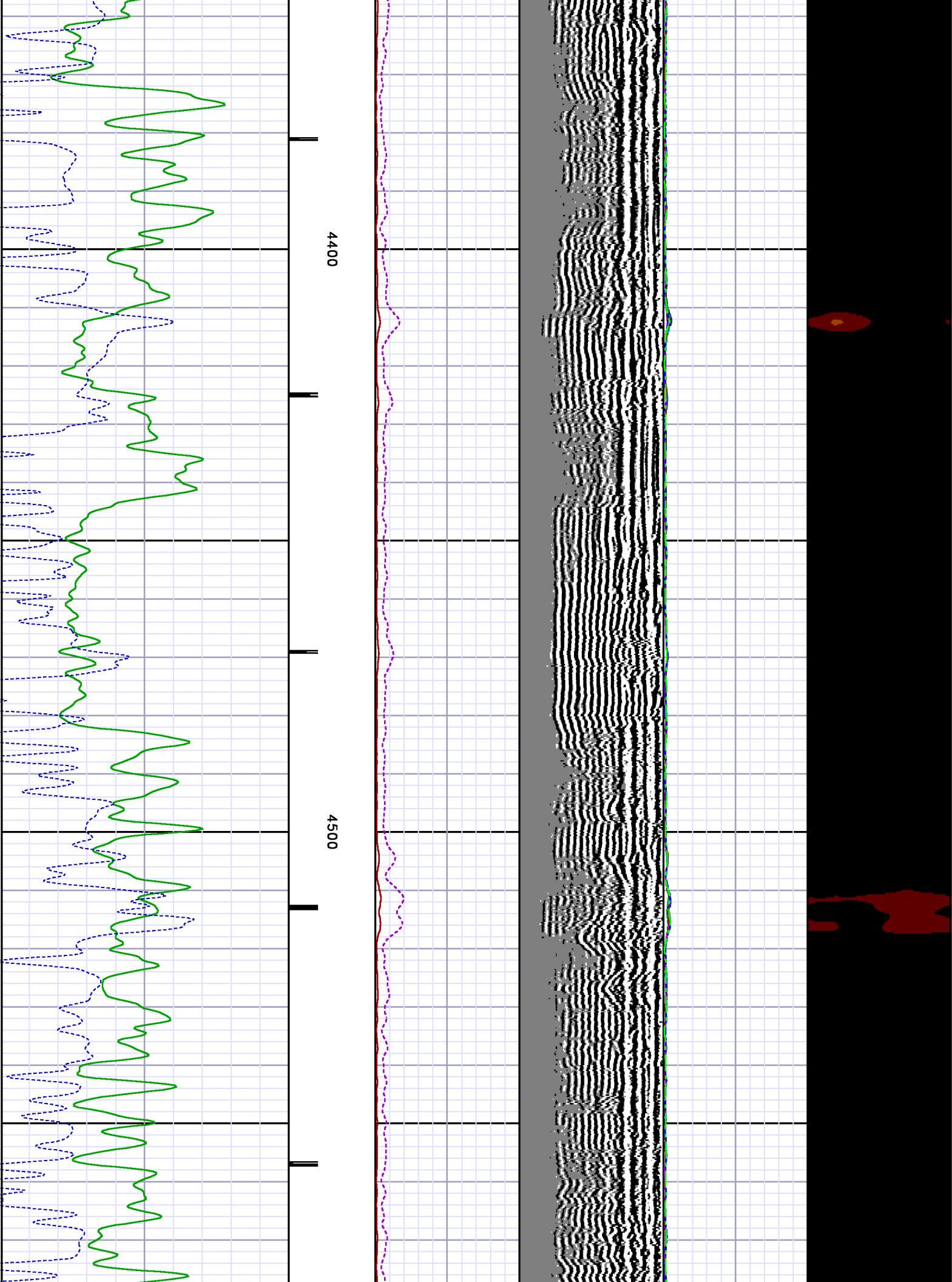


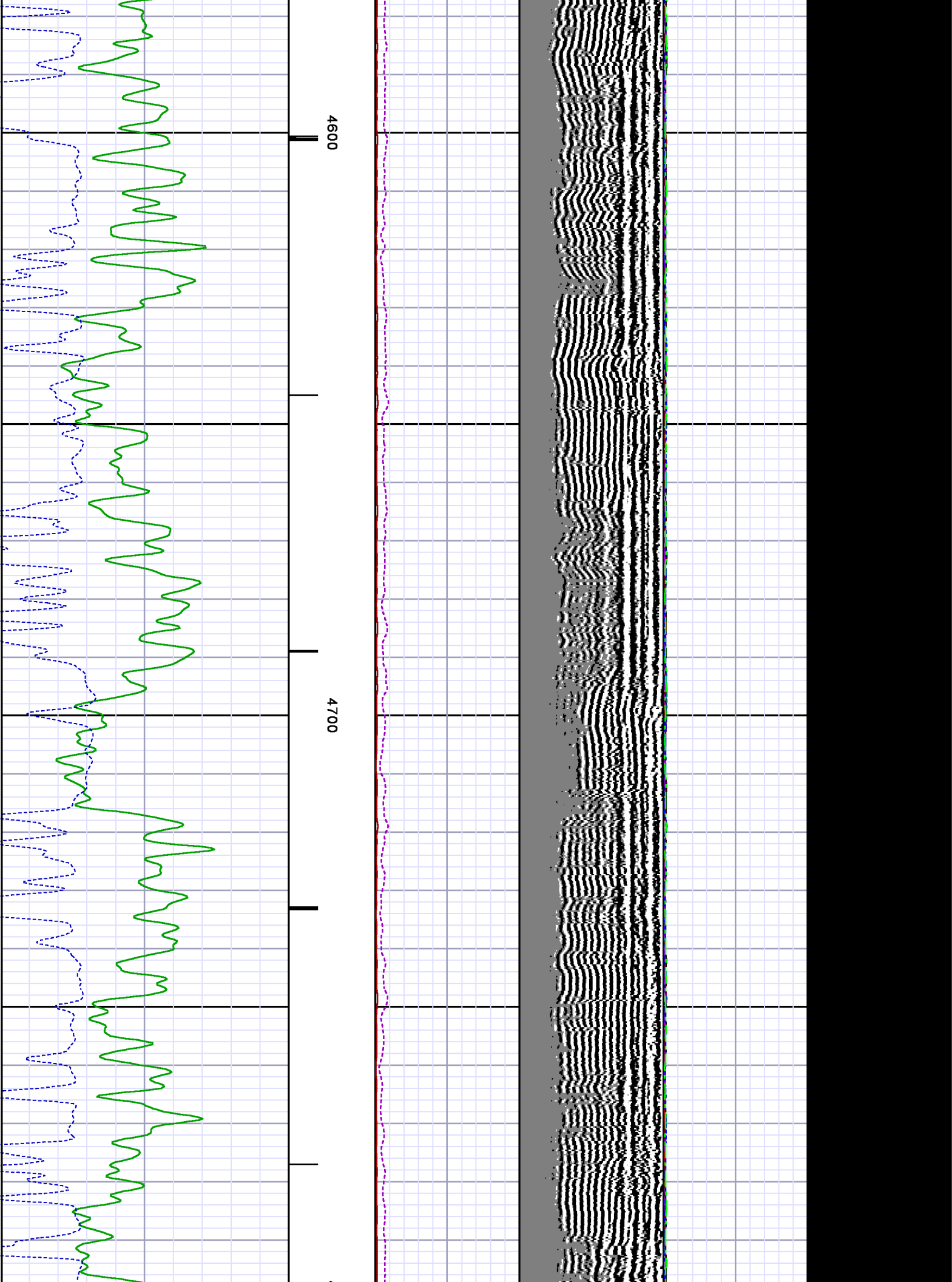


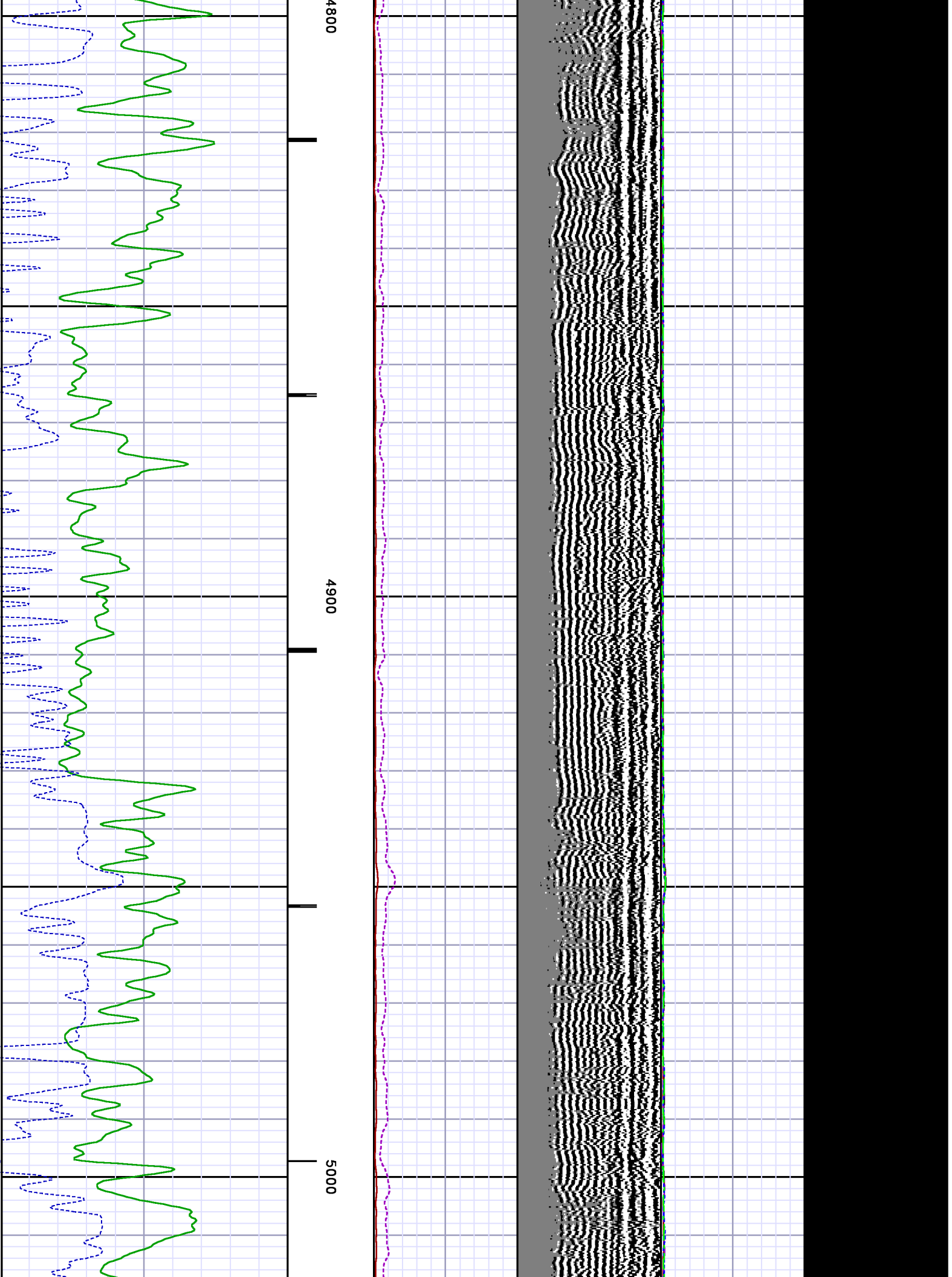


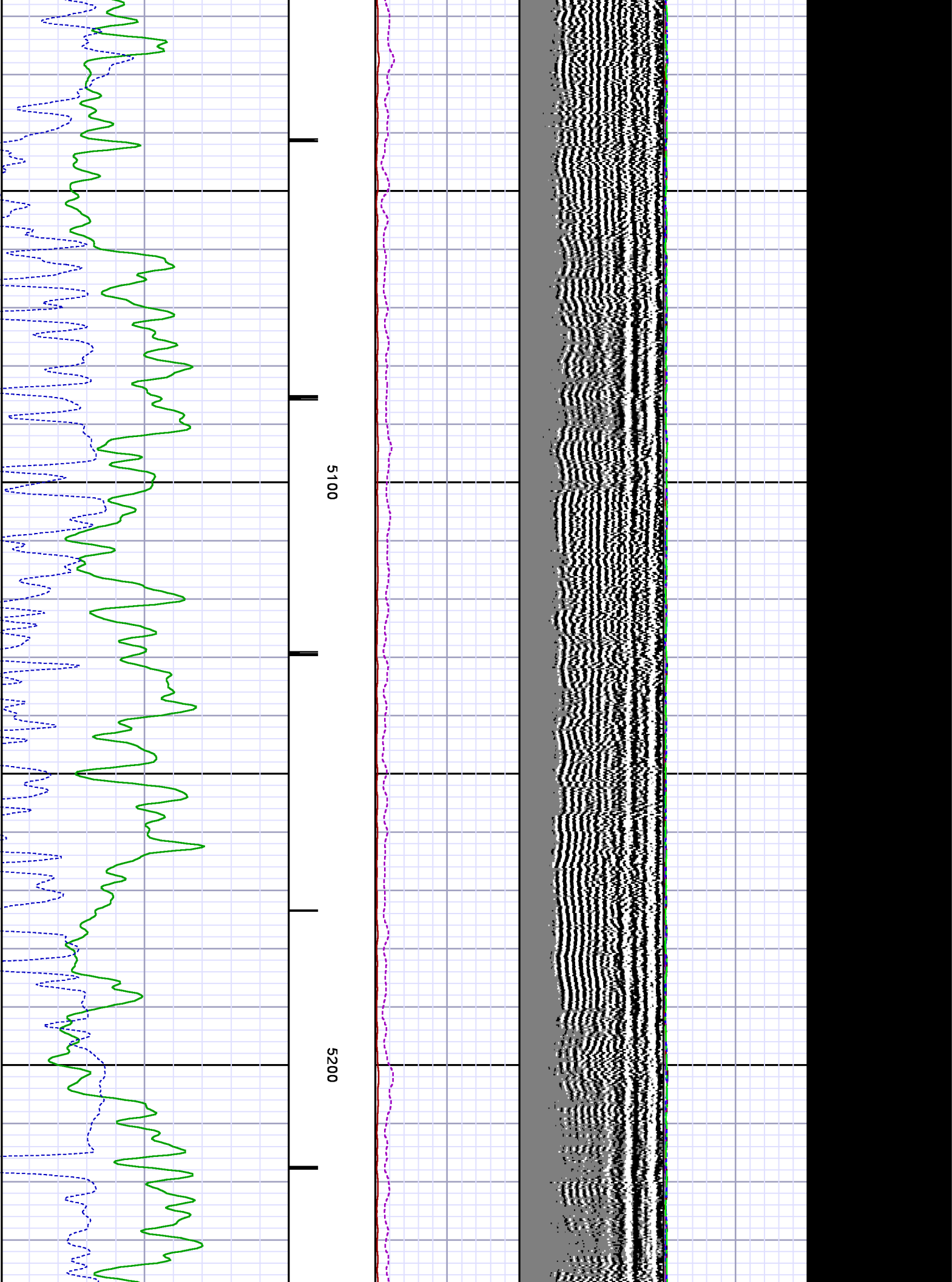


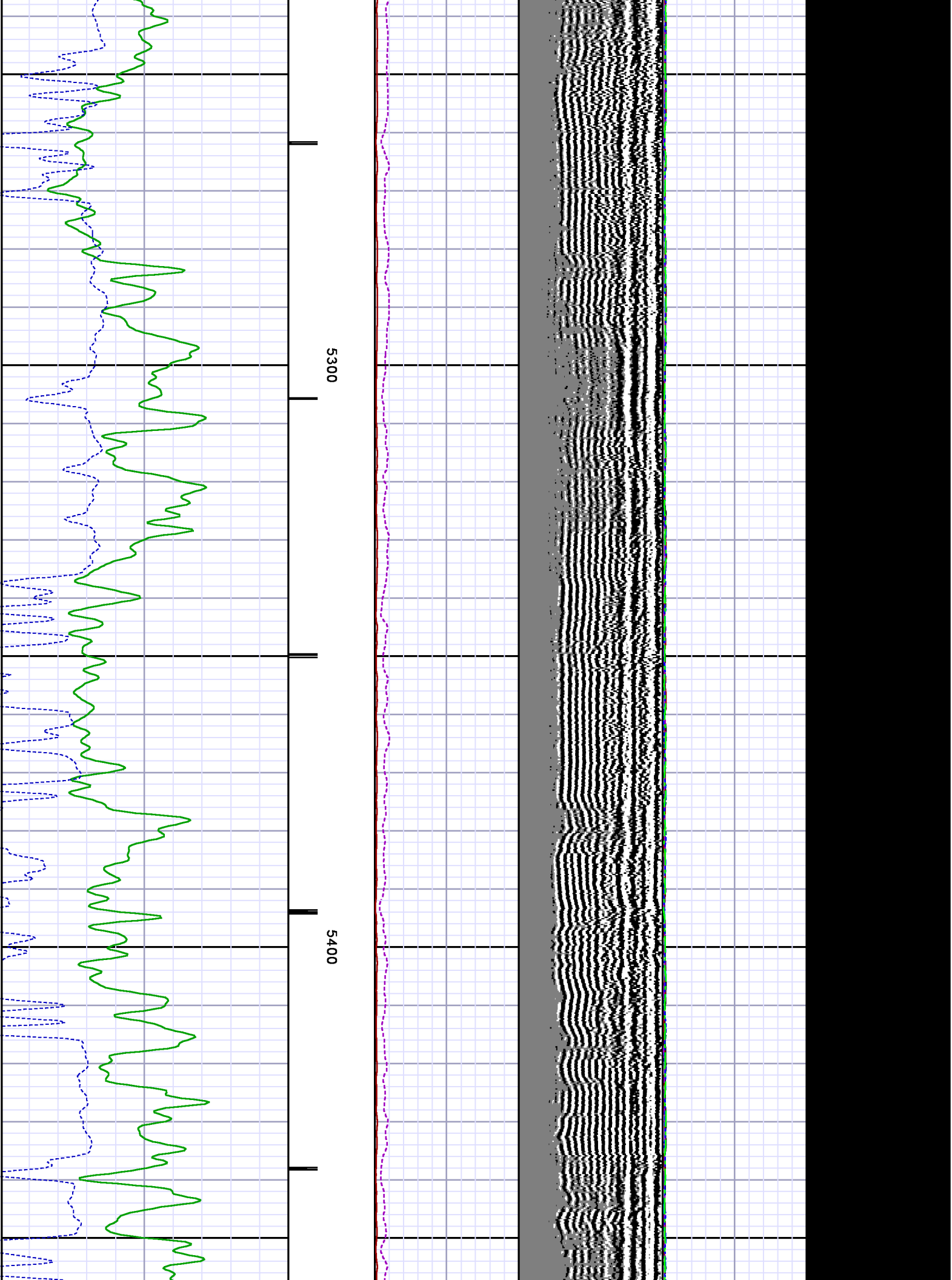


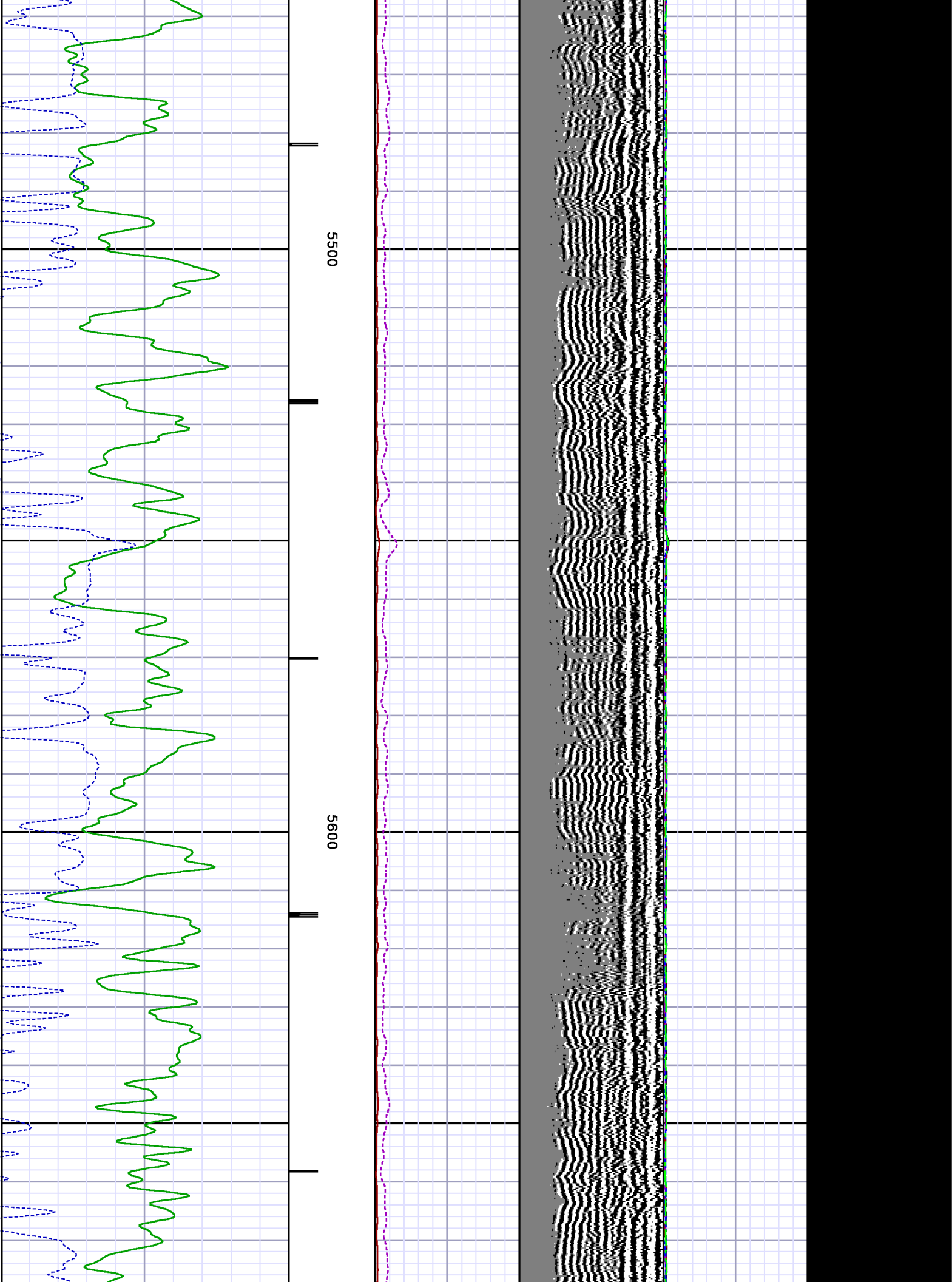


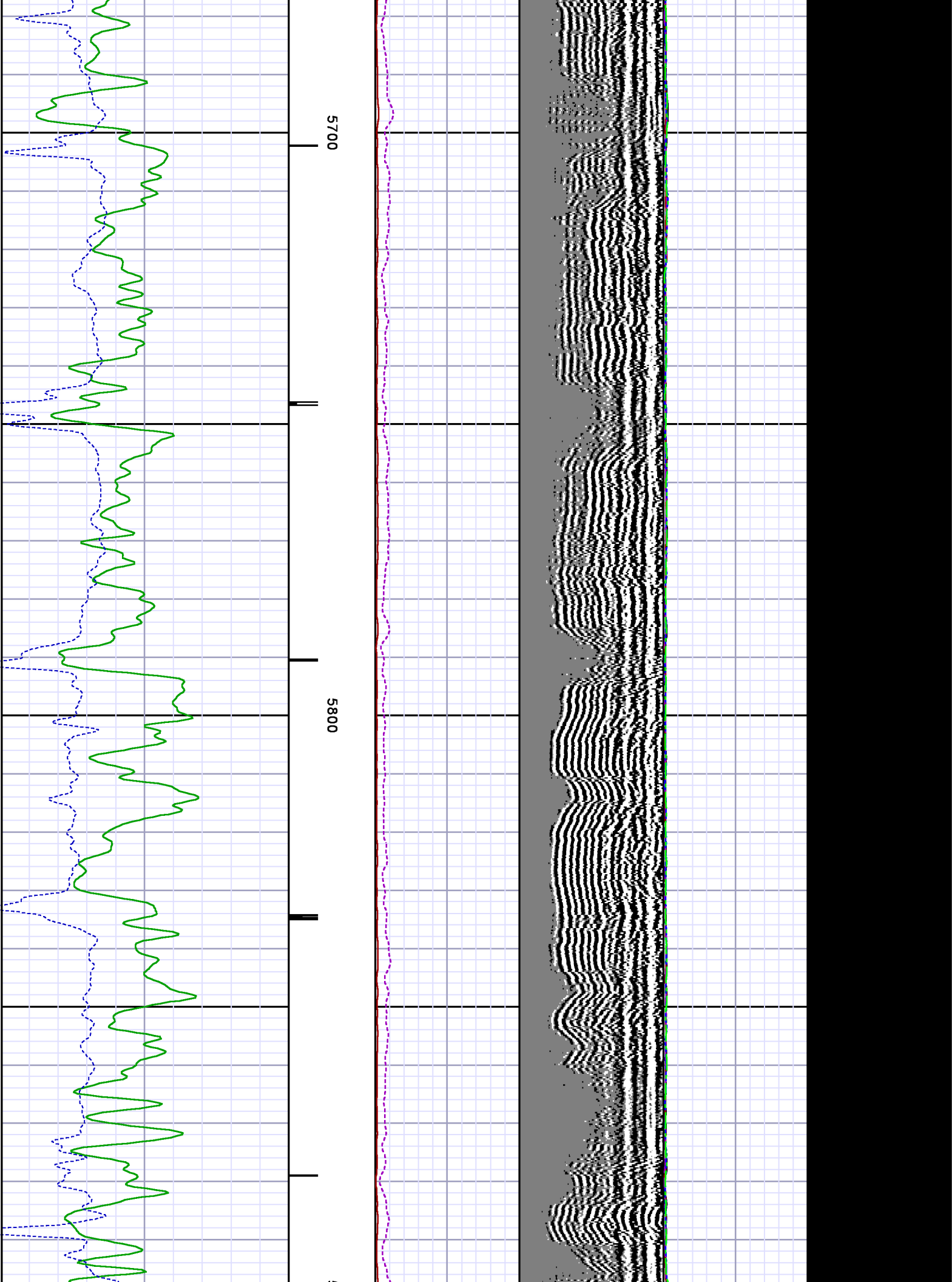


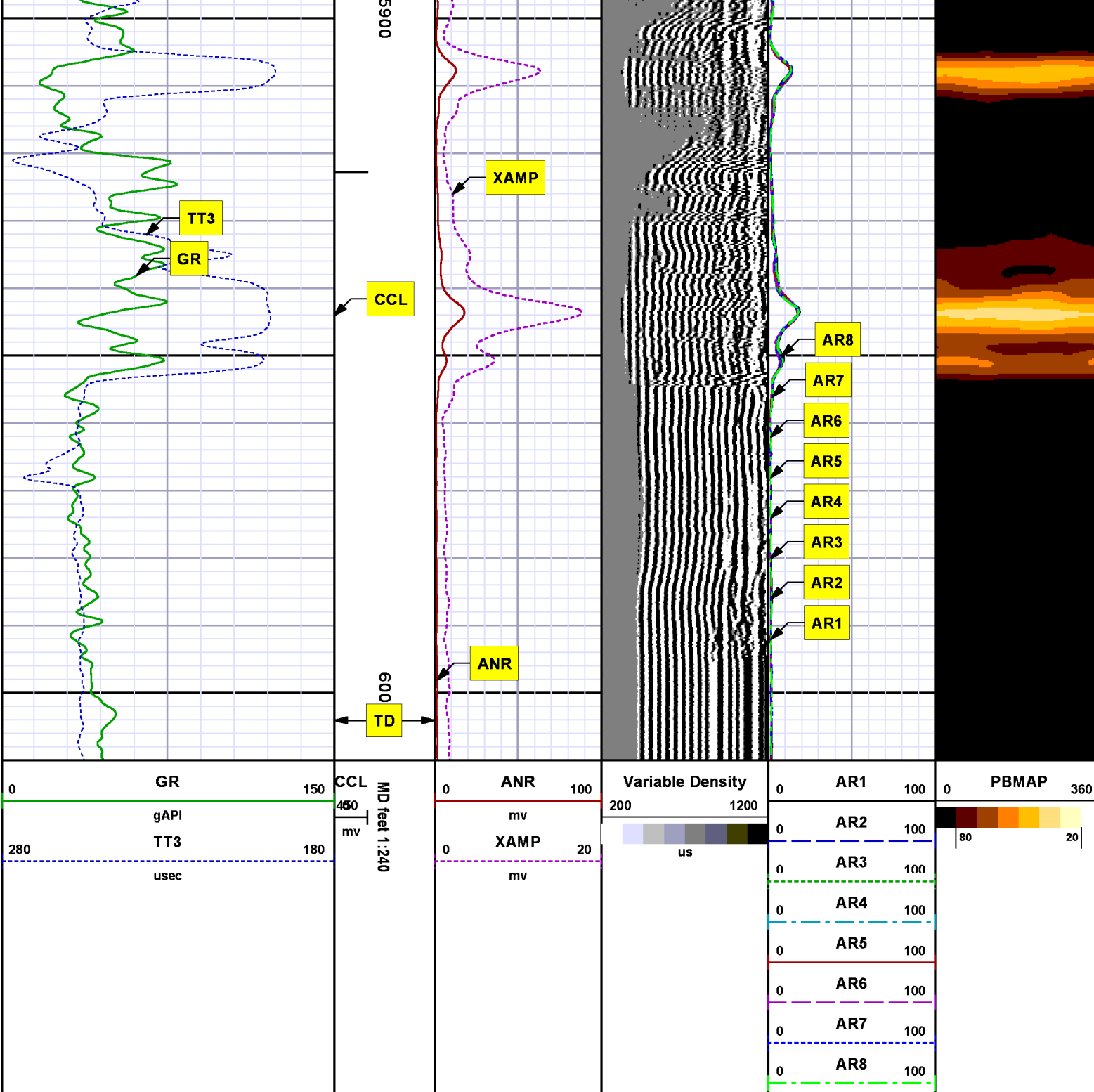












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	5696.380	6030.630
RAL	Amp Gate Start Near	195.000	usec	5696.380	6030.630
RAL	Amp Gate Start Radial	195.000	usec	5696.380	6030.630
RAL	Amp Gate Width Far	25.000	usec	5696.380	6030.630
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RAL	casing od	4.500	inches	5696.380	6030.630
RAL	casing wt	11.600	lbm/ft	5696.380	6030.630
RAL	FB Start Far	291.900	usec	5696.380	6030.630
RAL	FB Start Near	180.000	usec	5696.380	6030.630
RAL	FB Start Radial	180.000	usec	5696.380	6030.630
RAL	FB Thresh Far	10.000	mv	5696.380	6030.630
RAL	FB Thresh Near	4.000	mv	5696.380	6030.630
RAL	FB Thresh Radial	4.000	mv	5696.380	6030.630
RAL	Fluid Travel Time	200.000	usec/ft	5696.380	6030.317

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

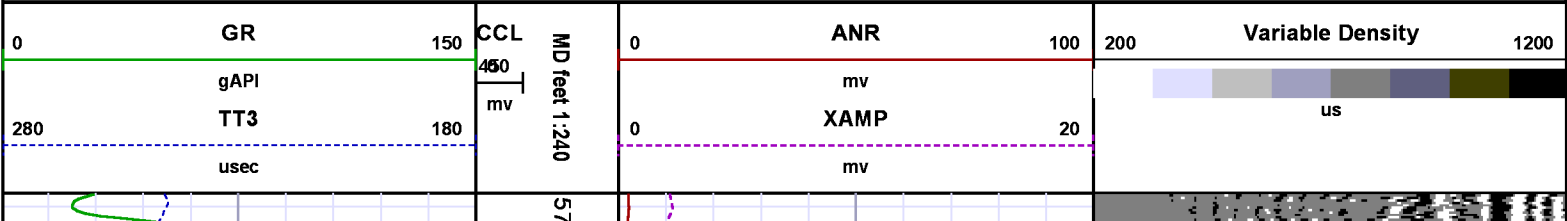
Well : STRAIT SG 431-22

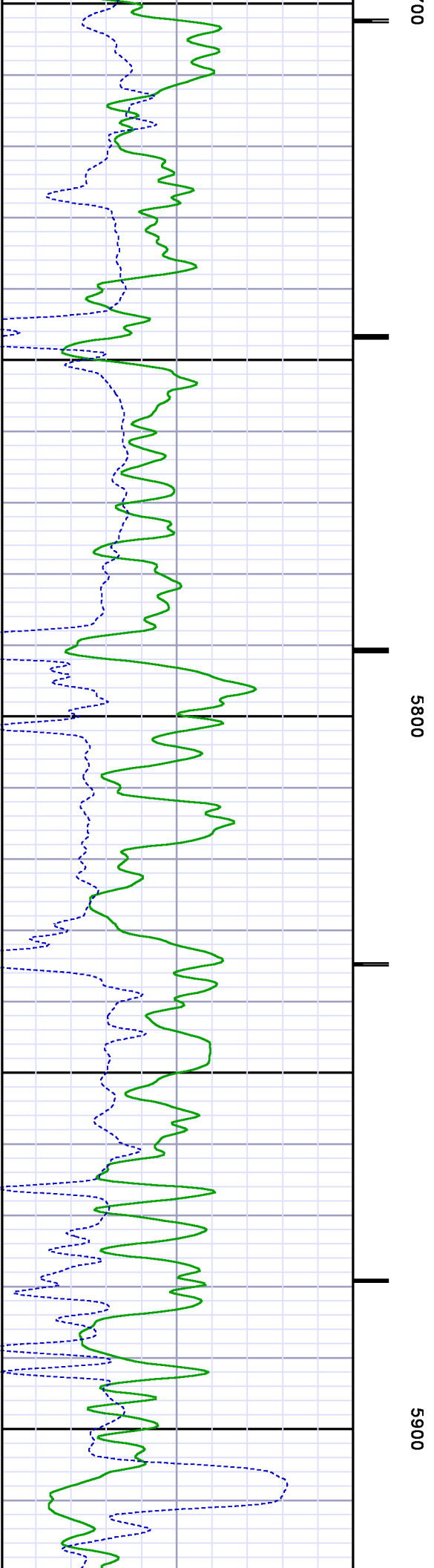
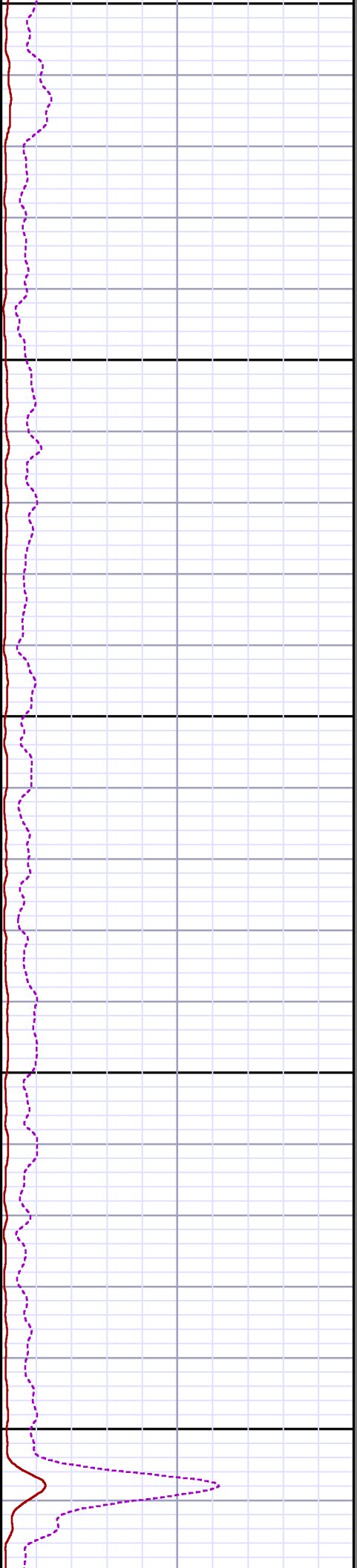
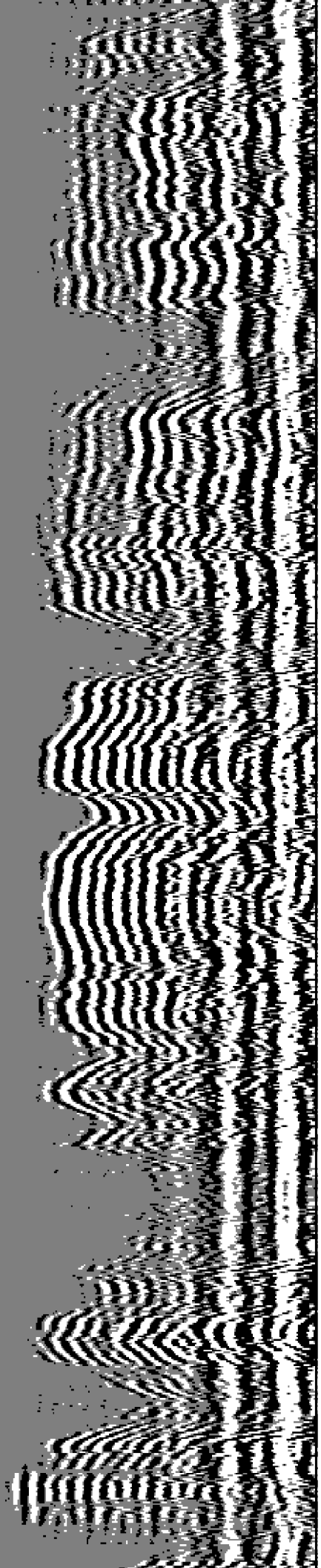
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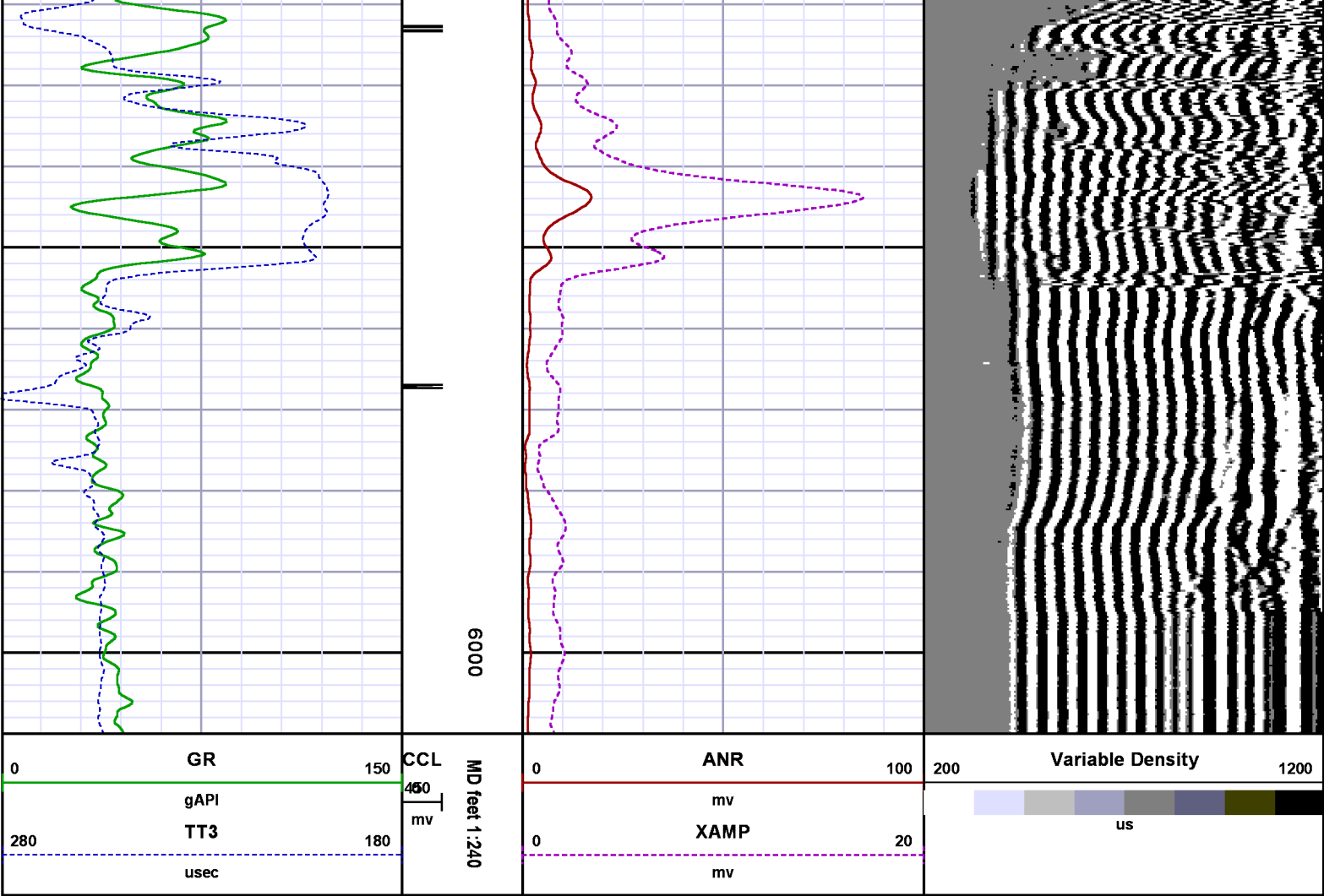
Mode : PlotMgr 5.4.504

Interval : 5696.63 - 6010.00 feet UP

Created : 8/18/2013 4:54:33 PM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106A18_shp.cal

SHOP CALIBRATION SUMMARY								
DATE/TIME PERFORMED:		Sun Aug 18 16:26:11 2013		TOOL SERIES:		1426XA		ASSET: 106
								SEQ: A18
Tool Delay [usec]	-60.00	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	216	216	30	166	25	-0.964	100.00	0.19
3 Ft. Receiver	216	216	30	166	25	-0.411	100.00	0.19
5 Ft. Receiver	324	324	30	227	25	0.314	150.00	0.20
Radial #1	216	216	30	148	25	0.345	100.00	0.19

Radial #2	216	216	30	148	25	0.232	100.00	0.19
Radial #3	216	216	30	148	25	-0.397	100.00	0.19
Radial #4	217	216	30	148	25	-0.049	100.00	0.19
Radial #5	217	216	30	148	25	0.118	100.00	0.19
Radial #6	216	216	30	148	25	-0.046	100.00	0.19
Radial #7	215	216	30	148	25	-0.648	100.00	0.19
Radial #8	216	216	30	148	25	0.249	100.00	0.19

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A18_fid.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Aug 18 16:28:46 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A18

Tool Delay [usec] -60.00 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	-0.061	0.000	1.00	100.000
3 Ft. Receiver	195	25	-0.625			
5 Ft. Receiver	305	25	-0.624			
Radial #1	195	25	-2.156			
Radial #2	195	25	-1.078			
Radial #3	195	25	-0.706			
Radial #4	195	25	-1.023			
Radial #5	195	25	-0.764			
Radial #6	195	25	-0.629			
Radial #7	195	25	-0.568			
Radial #8	195	25	-0.773			

GAMMA RAY

Calibration File: C:\case\calver\GR\209J3.cal

CALIBRATION SUMMARY

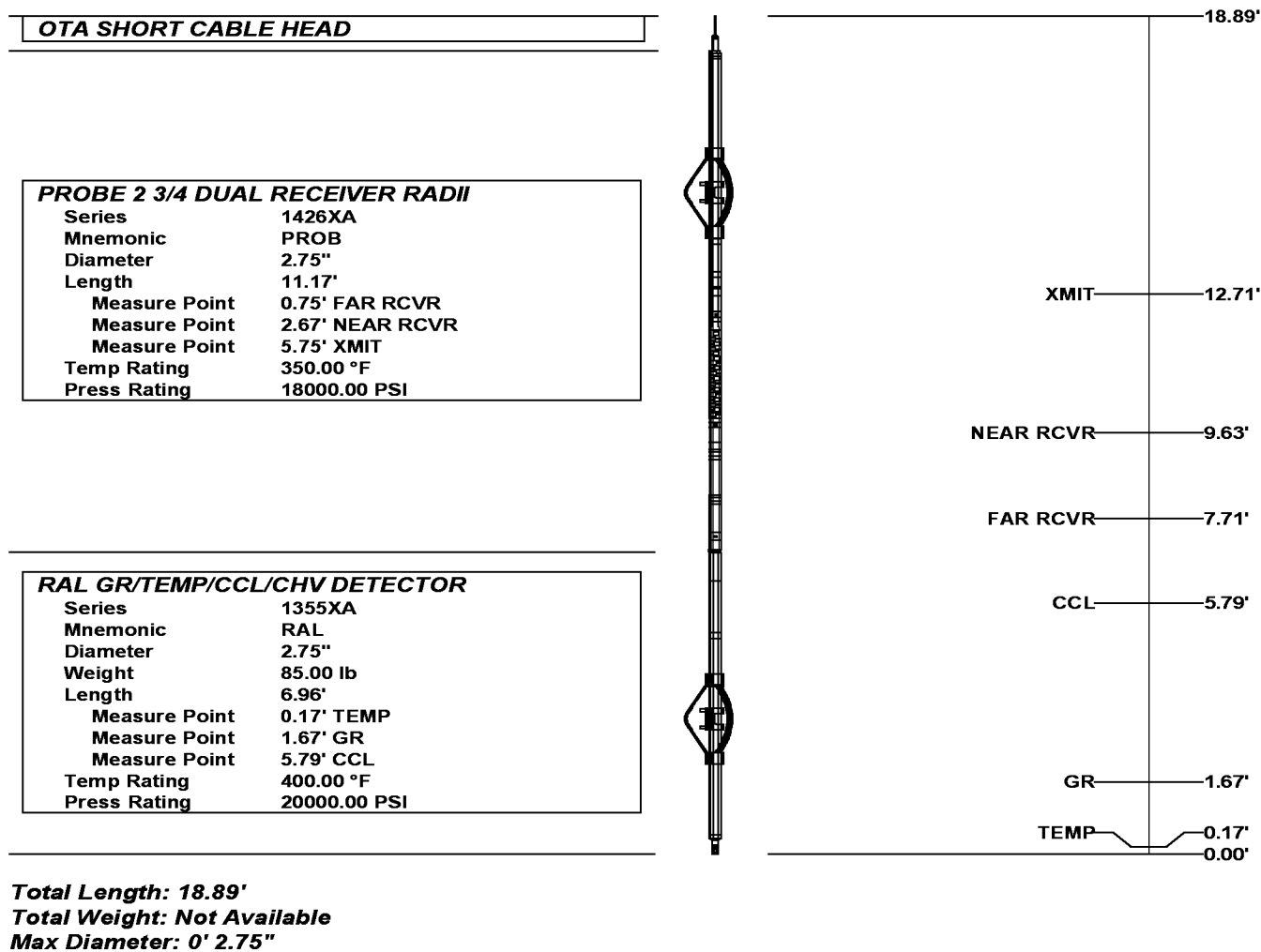
DATE/TIME PERFORMED: Tue Jul 30 08:43:58 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: J3


Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SHOP JIG	113.02	548.53	0.425	48.01	233.01	185.00

Verification File: C:\case\calver\GR\209J3.VP

DATE/TIME PERFORMED:		Tue Jul 30 08:46:06 2013		TOOL SERIES:	1355XA	ASSET:	209	SEQ:	J3
Calibrator #		Background		Calibrator On		Multiplicative		Background	
		[cps]		[cps]				[api]	
SHOP JIG		112.22		543.20		0.425		47.67	
								230.74	
								183.07	

TOOL DIAGRAM



 Baker Atlas	Company	WPX ENERGY		File No:	CH075920
	Well	STRAIT SG 431-22		API No:	05045217480000
	Field	GRAND VALLEY			
	County	GARFIELD	State	COLORADO	
	Location	SHL: 1489' FNL x 293' FEL		Elevations	22 7S 96W
		KB 5244 ft			

CASE

BHL: 893' FNL x 2198' FEL (NWNE)

SEC

22

TWP

7S

RGE

96W

DF

GL

5222 ft

SG 42-22 PAD

CYCLONE 17