



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: GH073167	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 322-11 PARACHUTE GARFIELD	State COLORADO
API No: 06046218260000	Location SHL: 2403' FNL, 2067' FWL 11 7S 9SW CYCLONE 17 BHL: 1769' FNL, 2030' FWL SEC 11 TWP 7S RGE 9SW		Other Services NONE
PA 22-11 PAD 11 7S 9SW CYCLONE 17	Permanent Datum Log Measured From Drill Measured From	OL KB KELLY BUSHING	Elevations KB 6300 ft DF GL 6274 ft

Date	13/JUN/13	
Run	ONE	
Service Order	876099	
Depth Driller	7748 ft	
Depth Logger	7710 ft	
Bottom Logged Interval	7700 ft	
Top Logged Interval	26 ft	
Time Started	1430	
Time Finished	1800	
Operator Rig Time	3.5 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	NA	
Salinity	NA	
Fluid Level	61 ft	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	NA	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	220 degF	
Reference Log	Baker Hughes HDIL/ZDL/CN/GR	
Reference Log Date	22MAY/2013	
Equipment No.	4271	GRAND JCT
Recorded By	RENEAU	
Witnessed By	DUSTIN WELSH	

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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	886 ft
8.75 in	886 ft	7748 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	32 lbm/ft		0 ft	886 ft
4.5 in	11.6 lbm/ft	I-80	0 ft	7748 ft

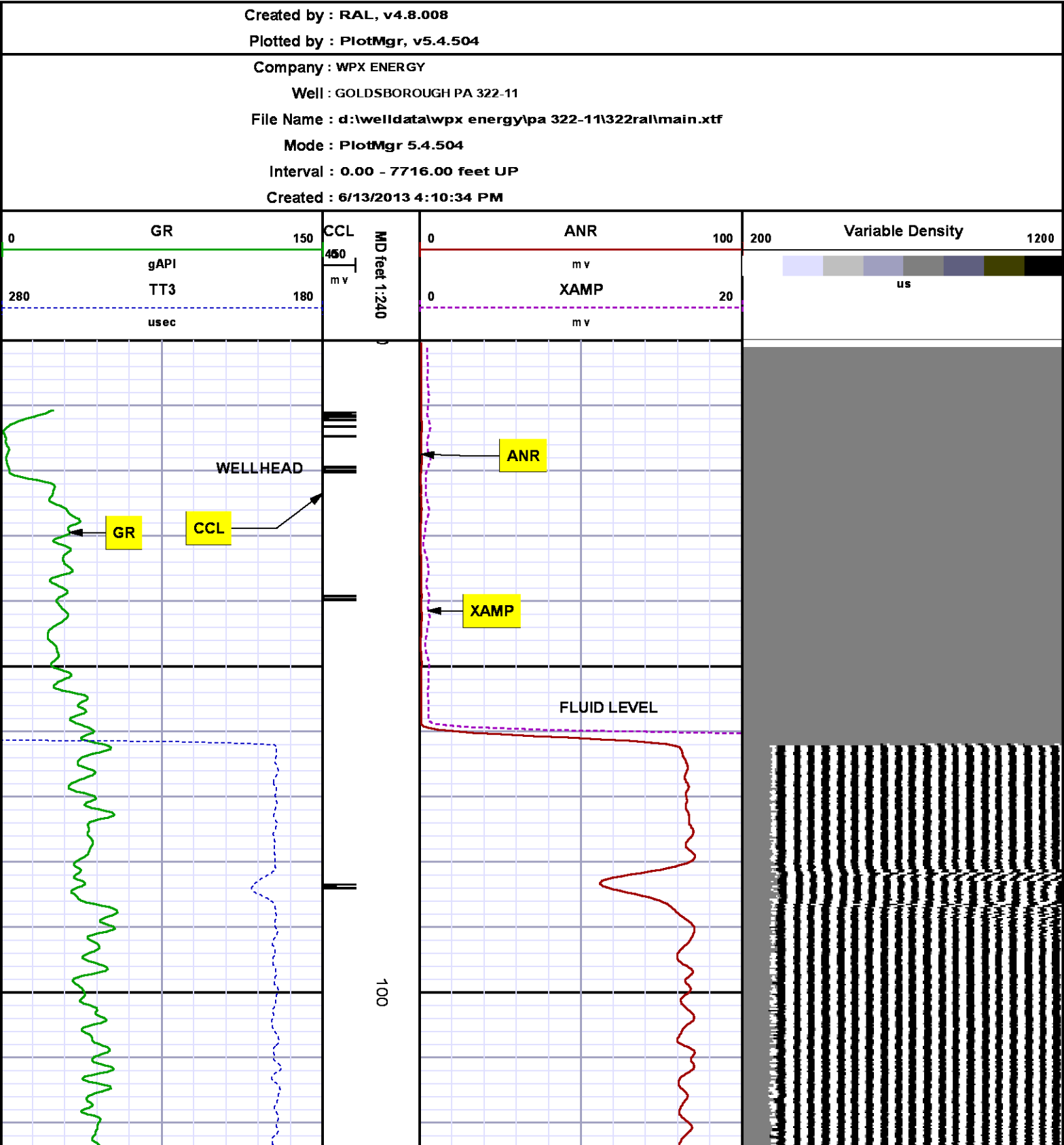
Remarks
All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 5/22/2011 at the clients request.
The amount of linear shift is 3 feet.
The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray reference.

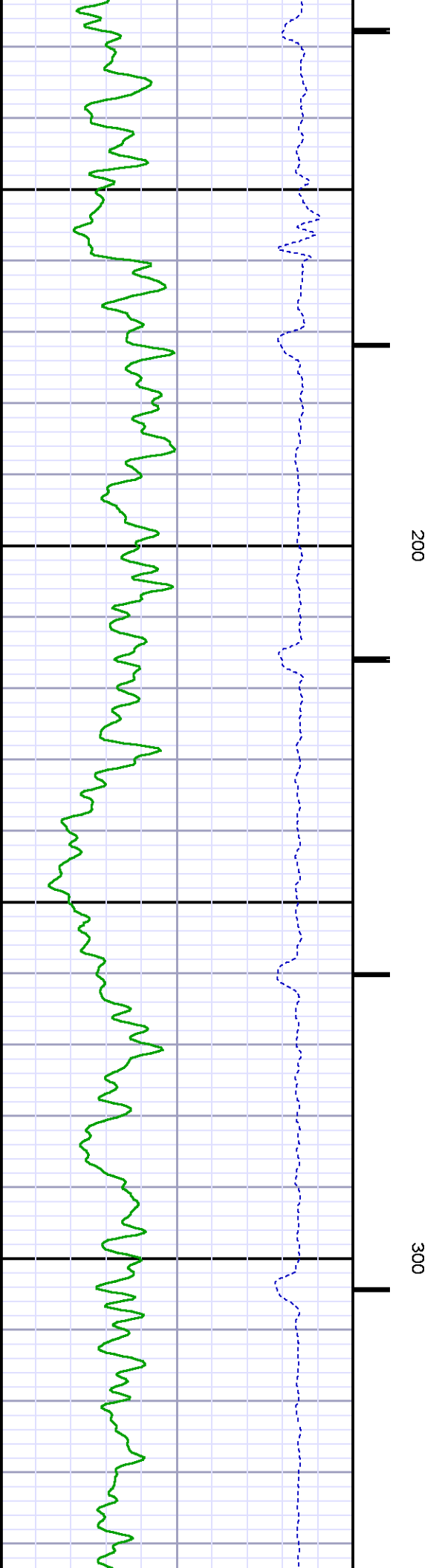
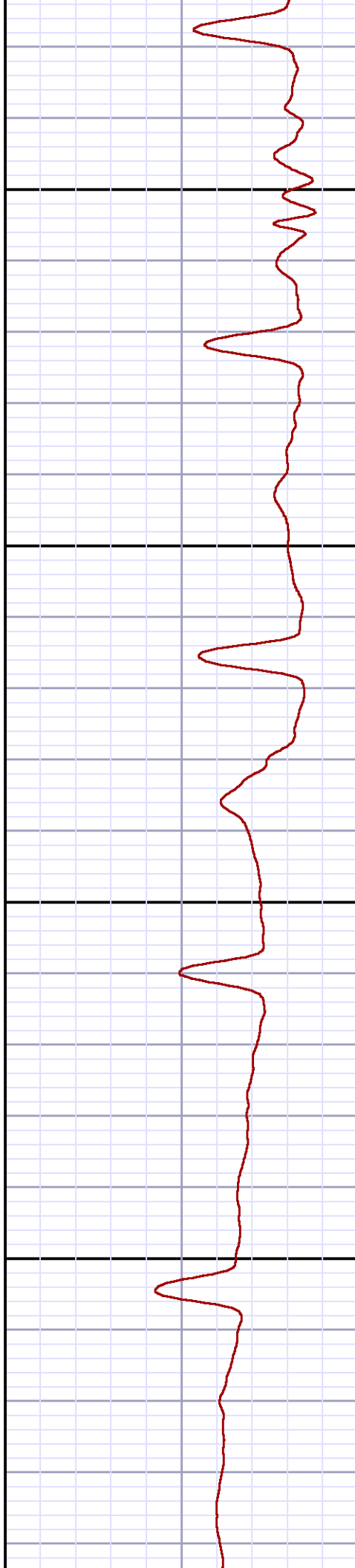
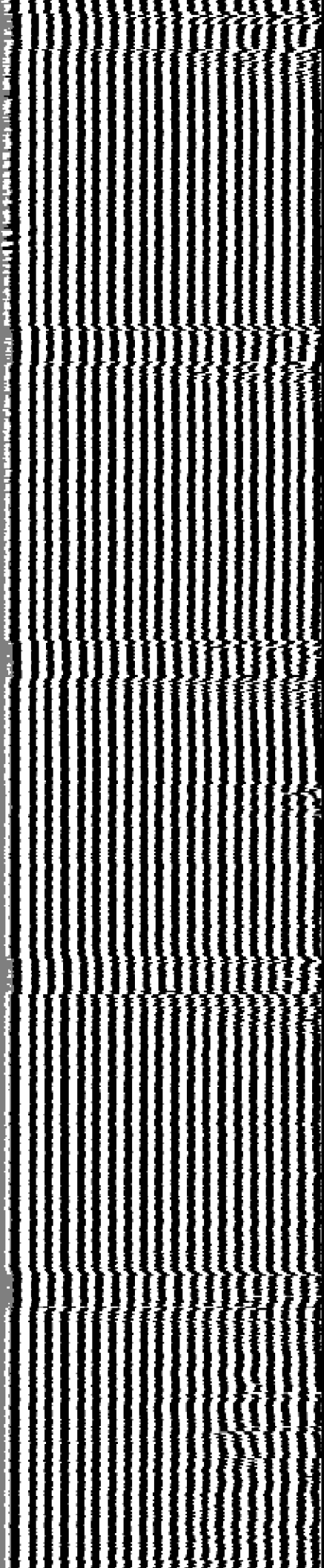
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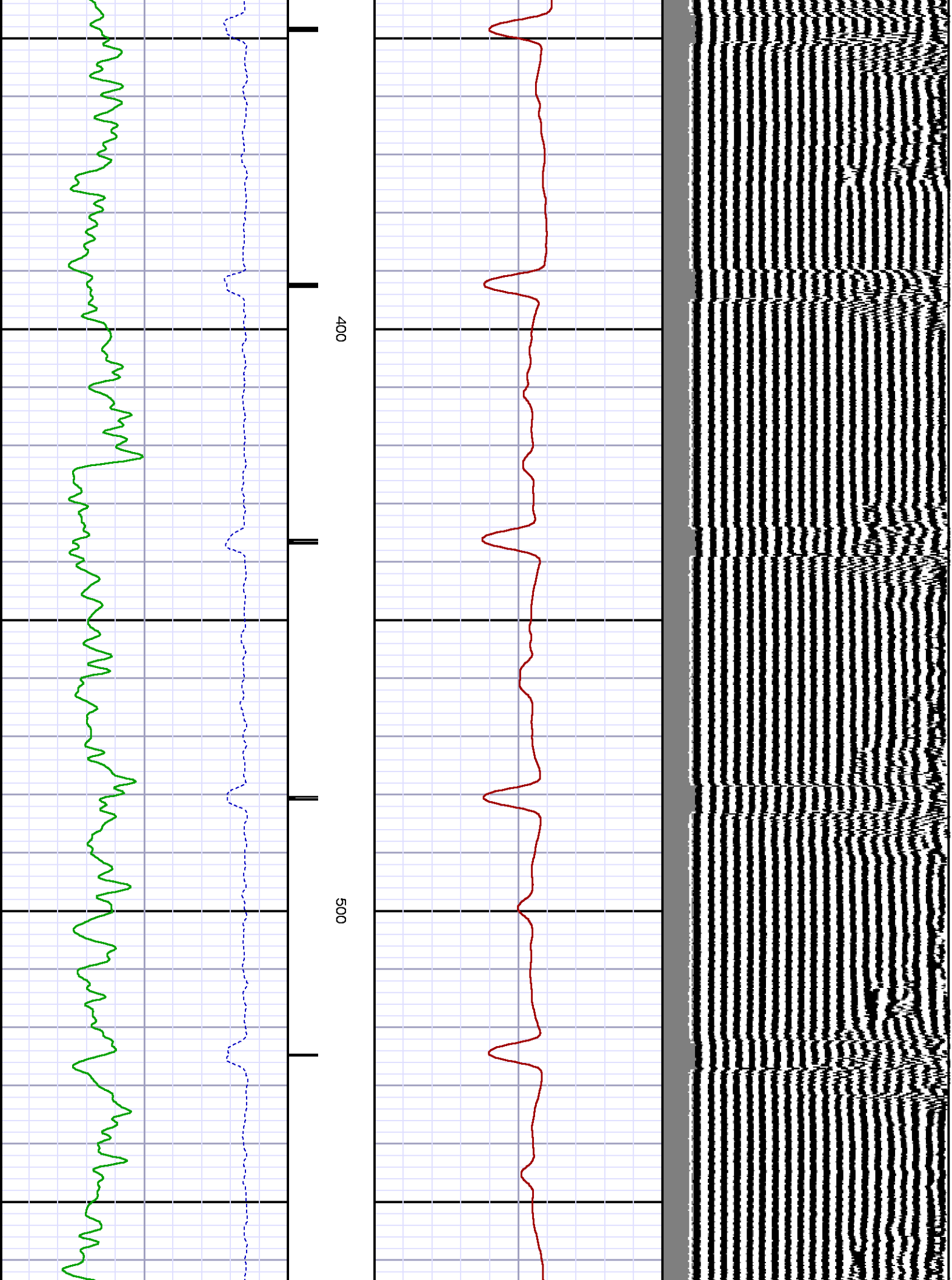
PRIMARY PRESENTATION
0 PSI

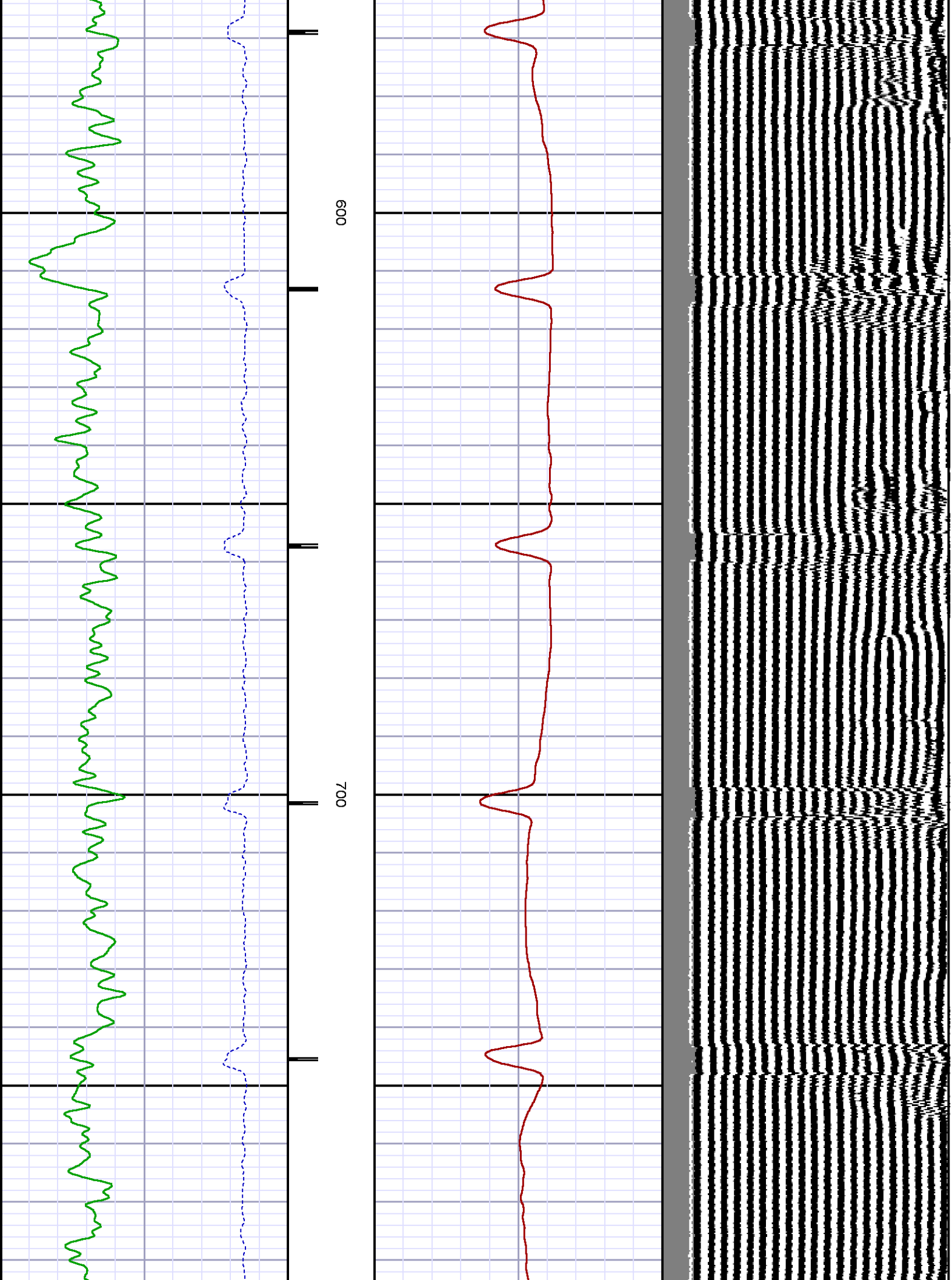
DEPTH OFFSETS (for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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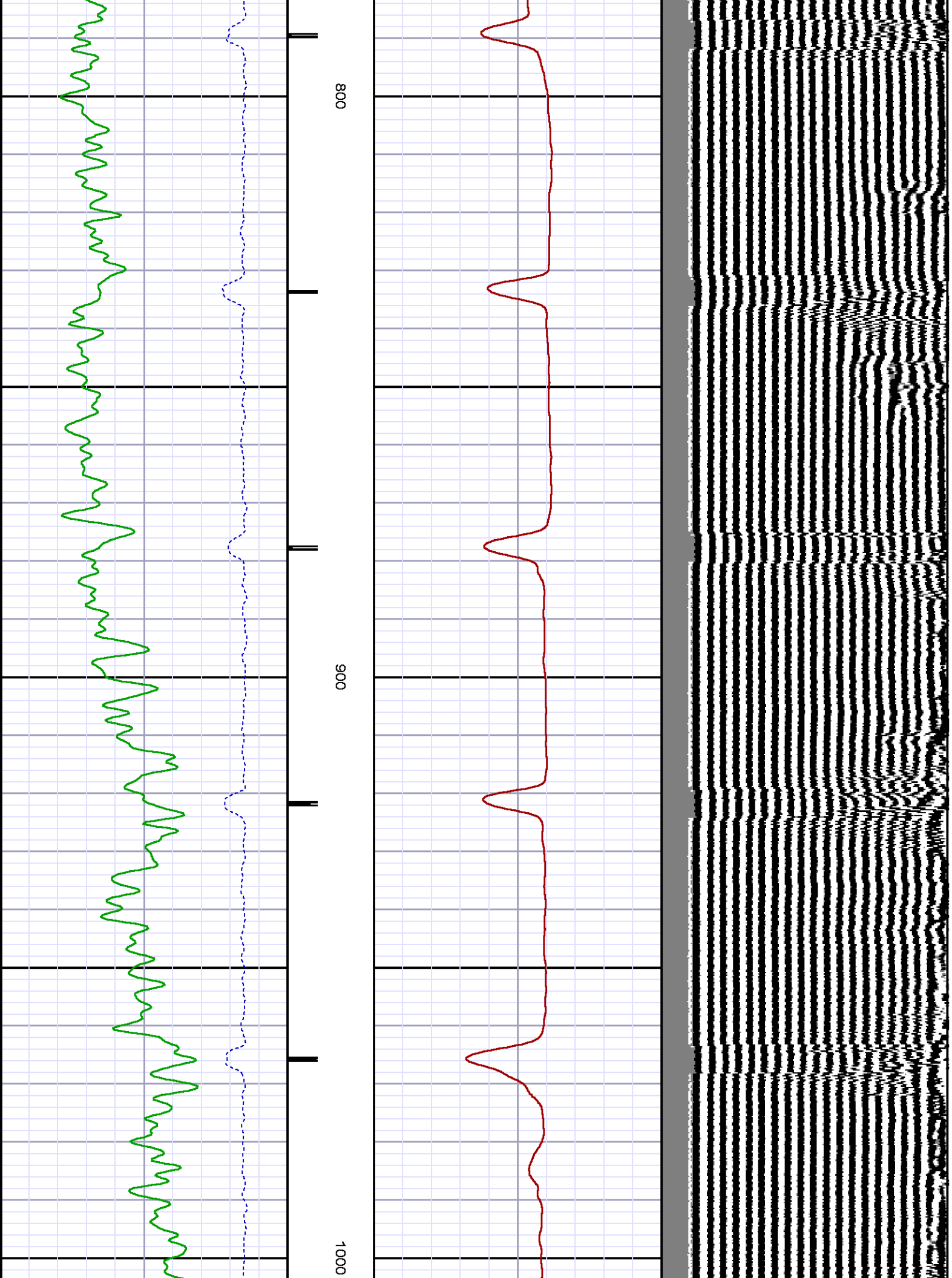
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040	AFAR	SIG	TT5			
1355XA	-5.620	CCL					
1355XA	-1.500	GR					
1355XA	0.000	TEMP					

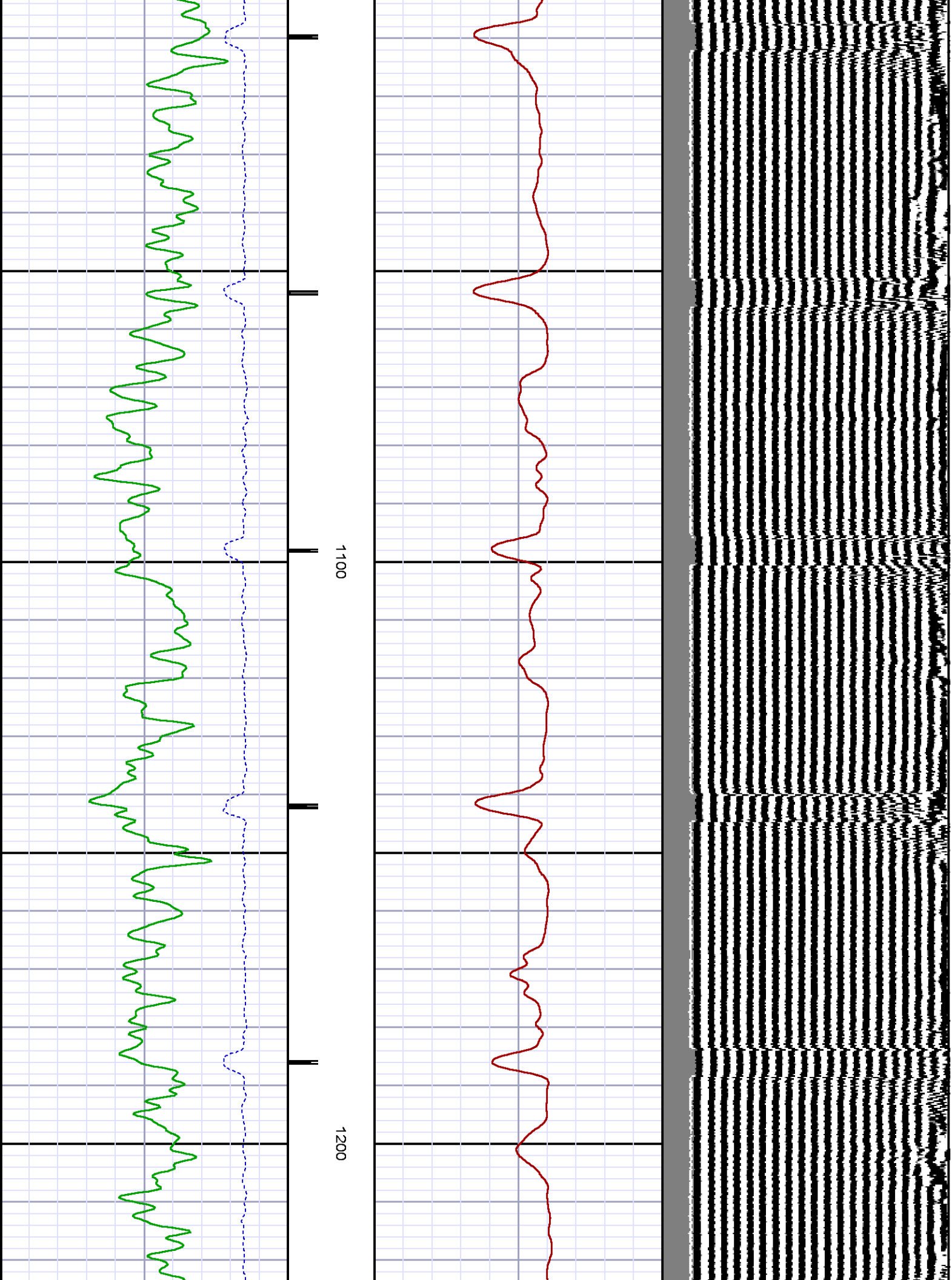


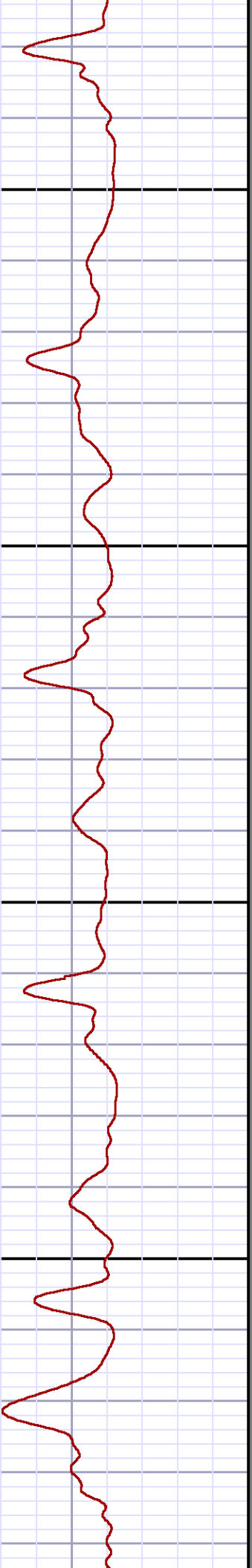
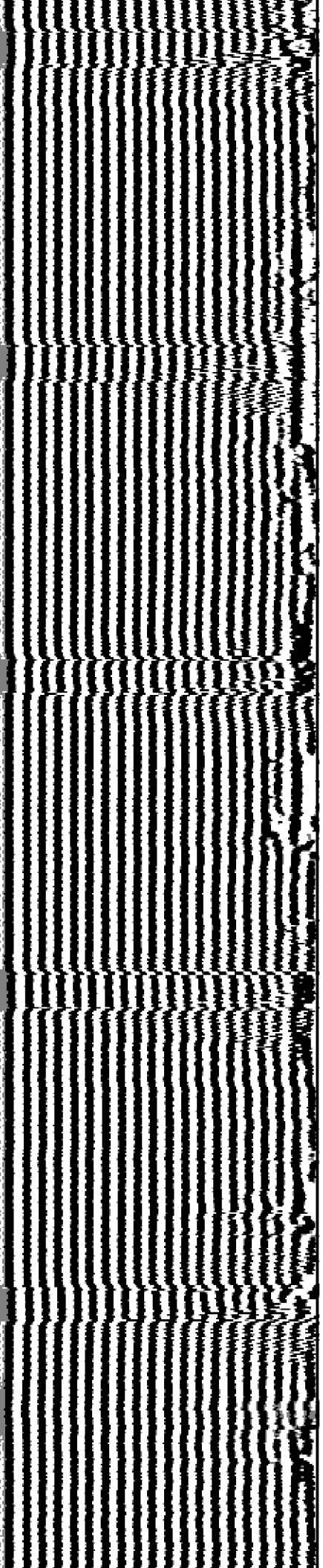






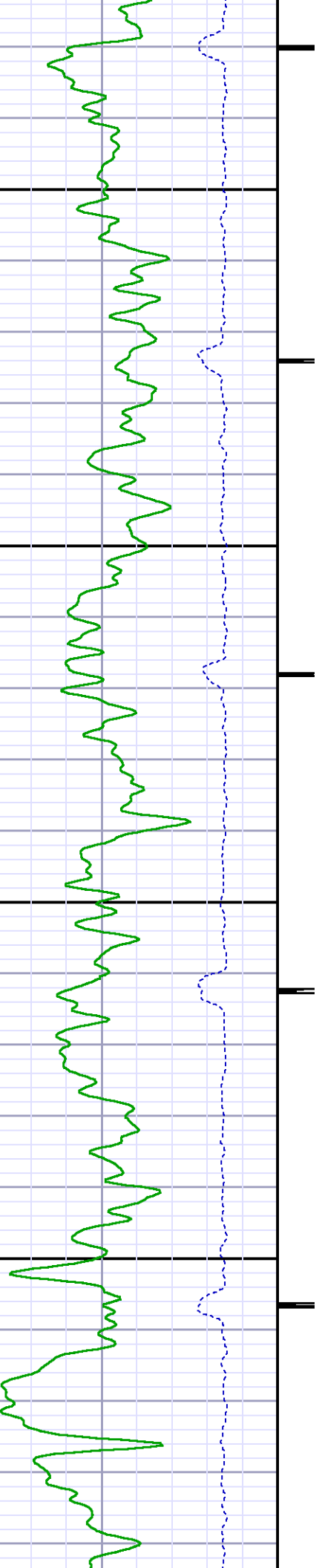


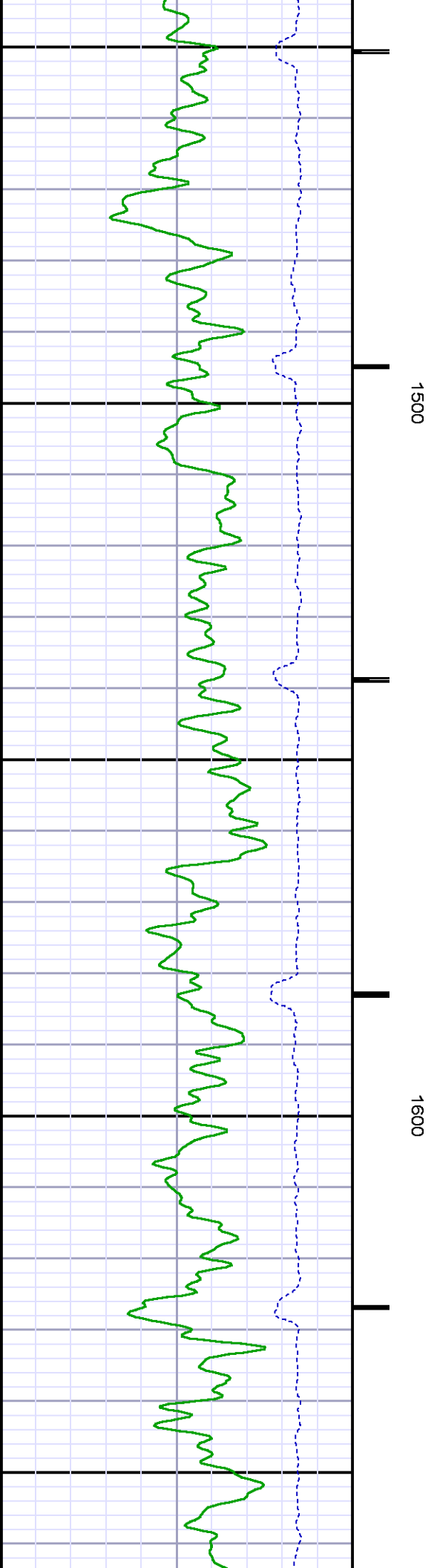
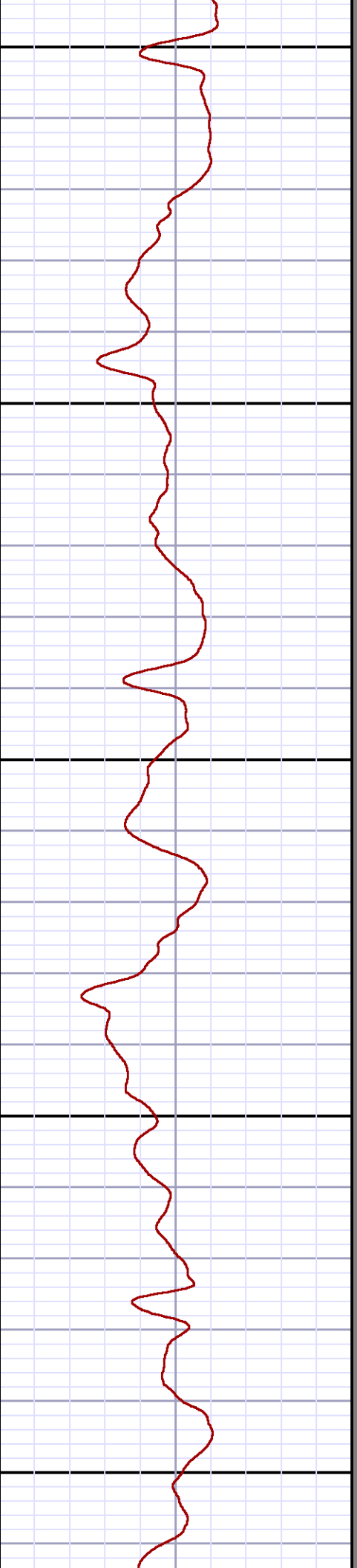
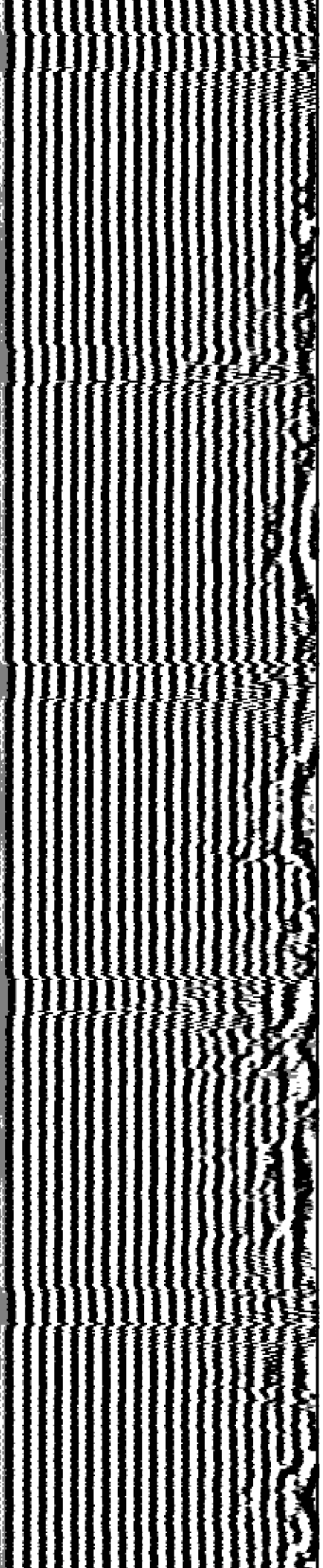


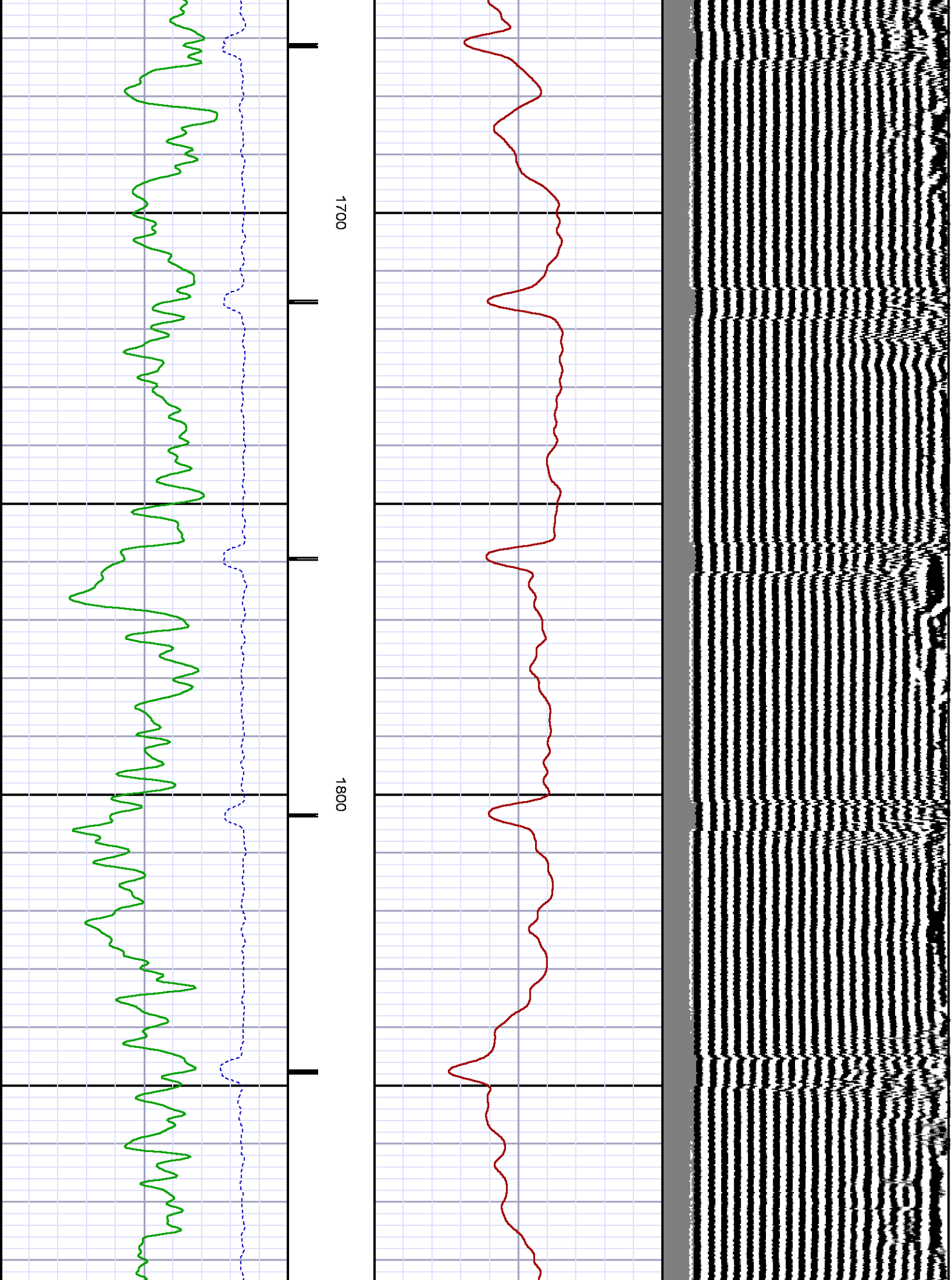


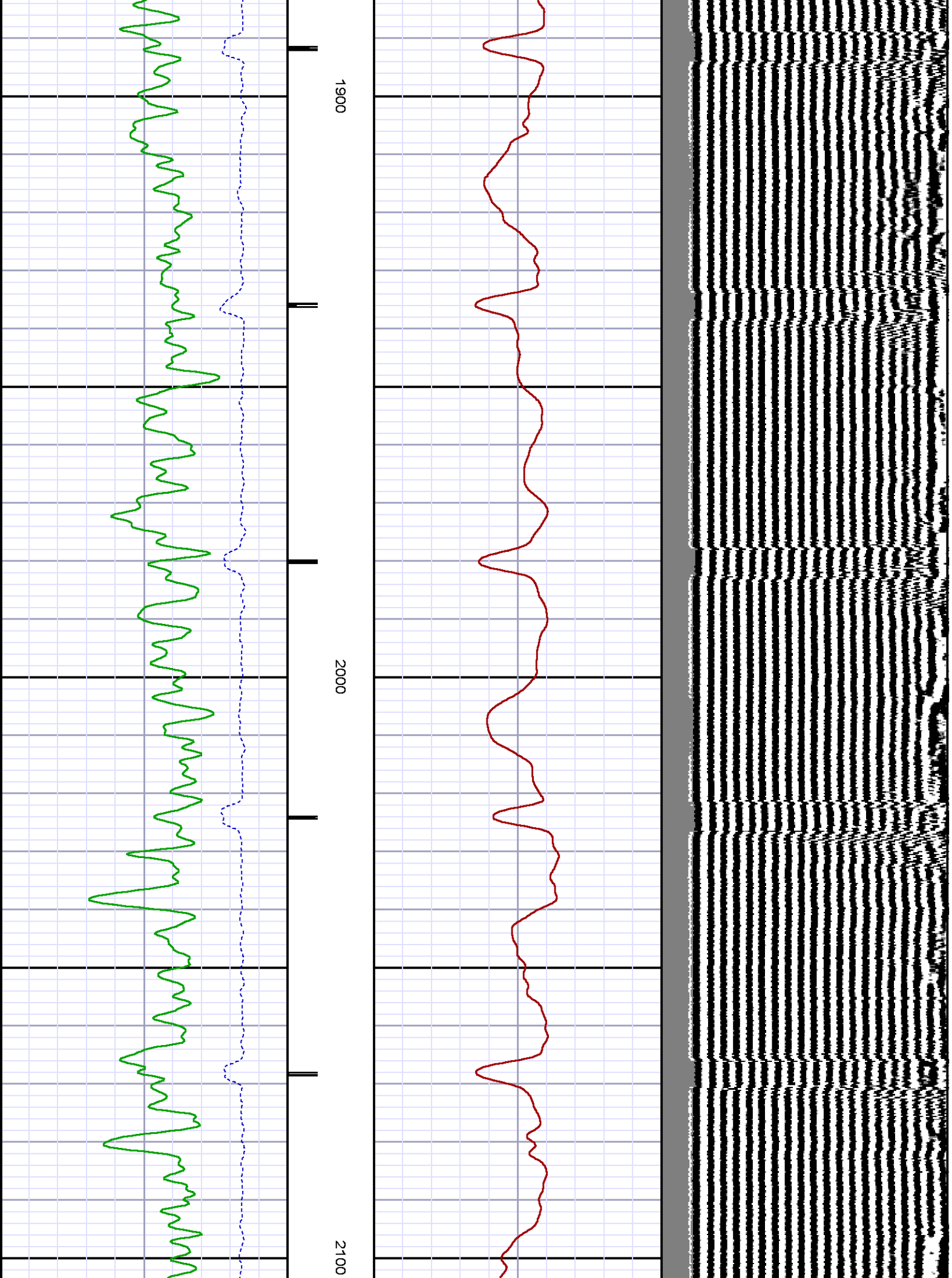
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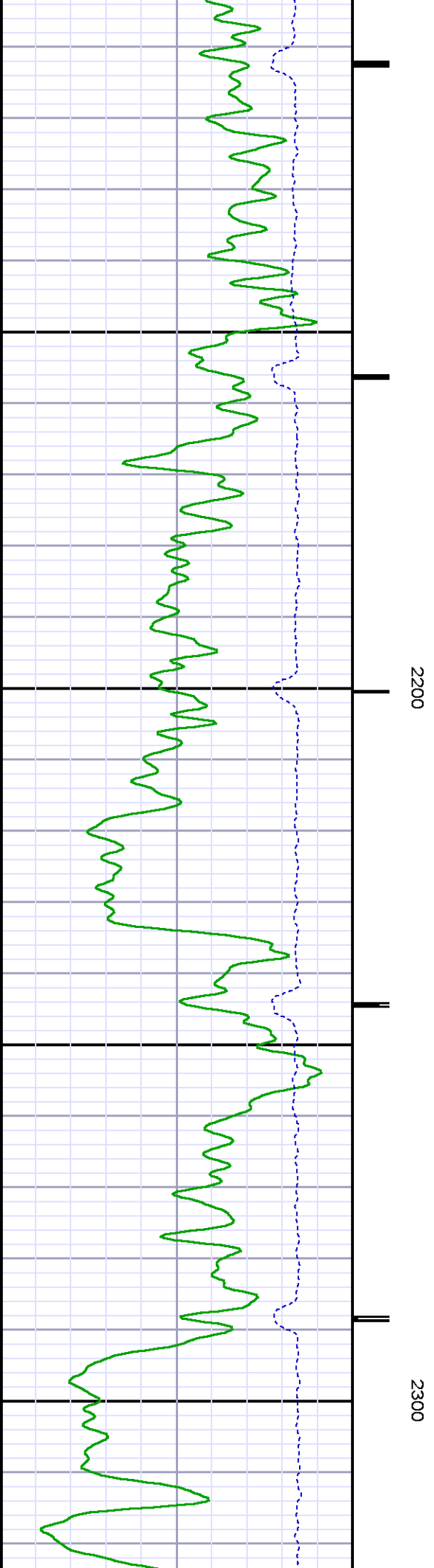
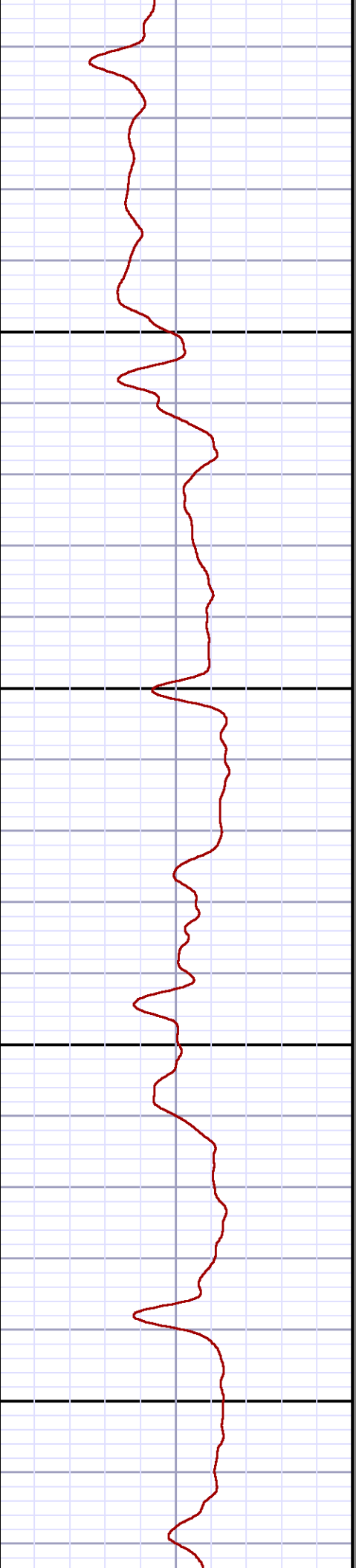
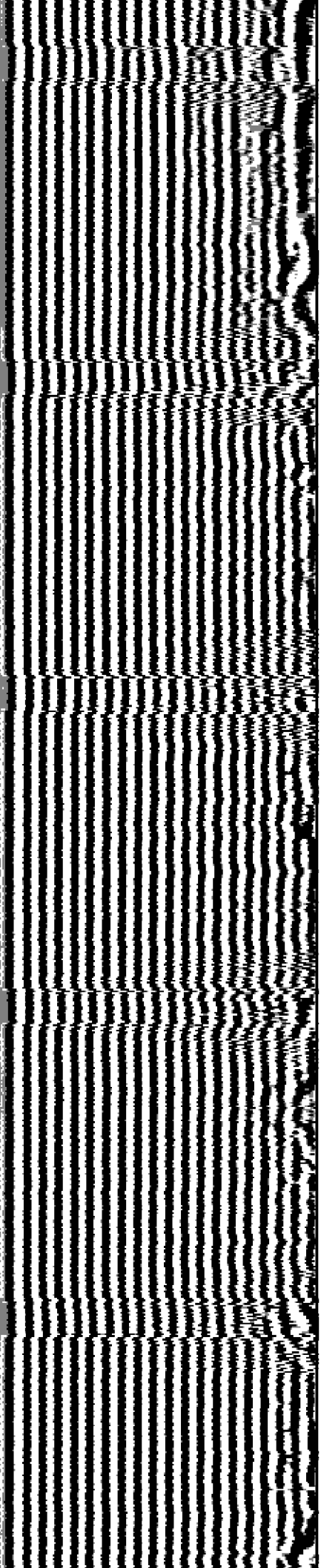
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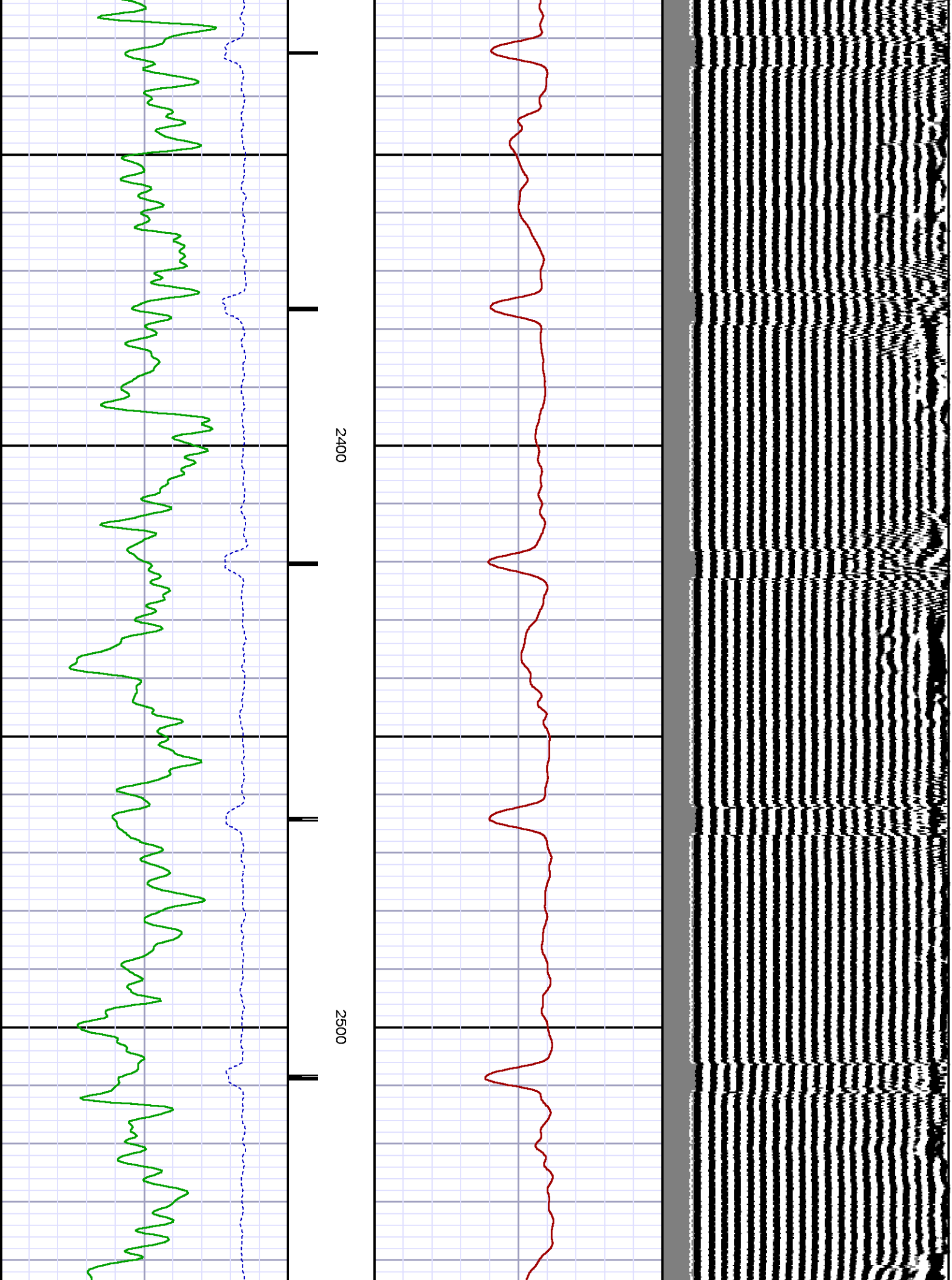


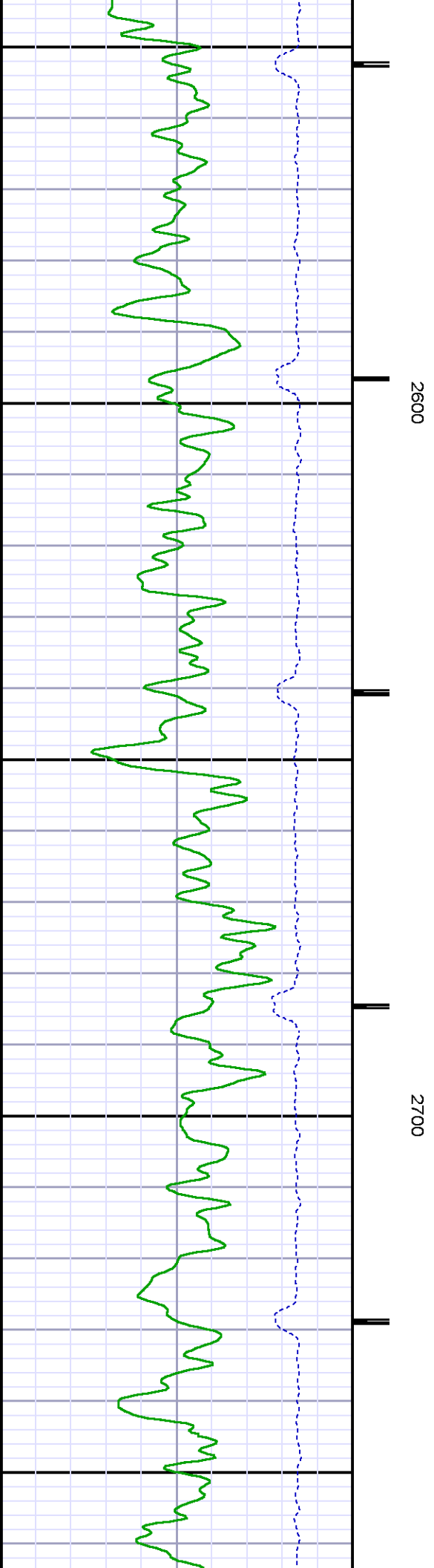
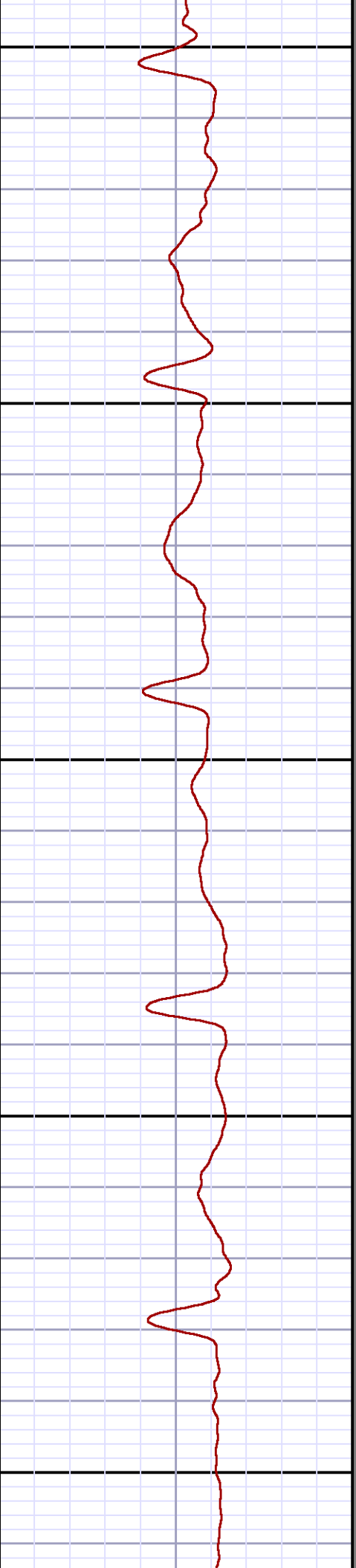
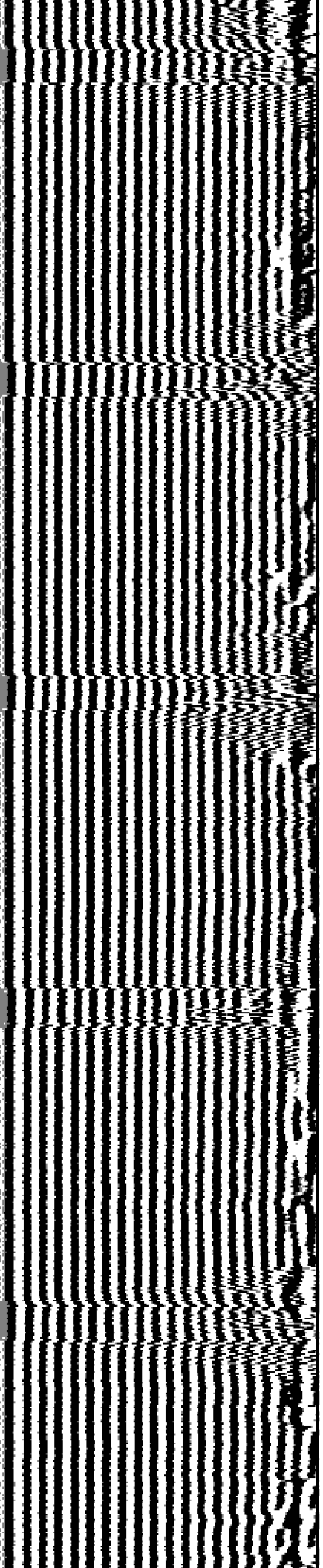


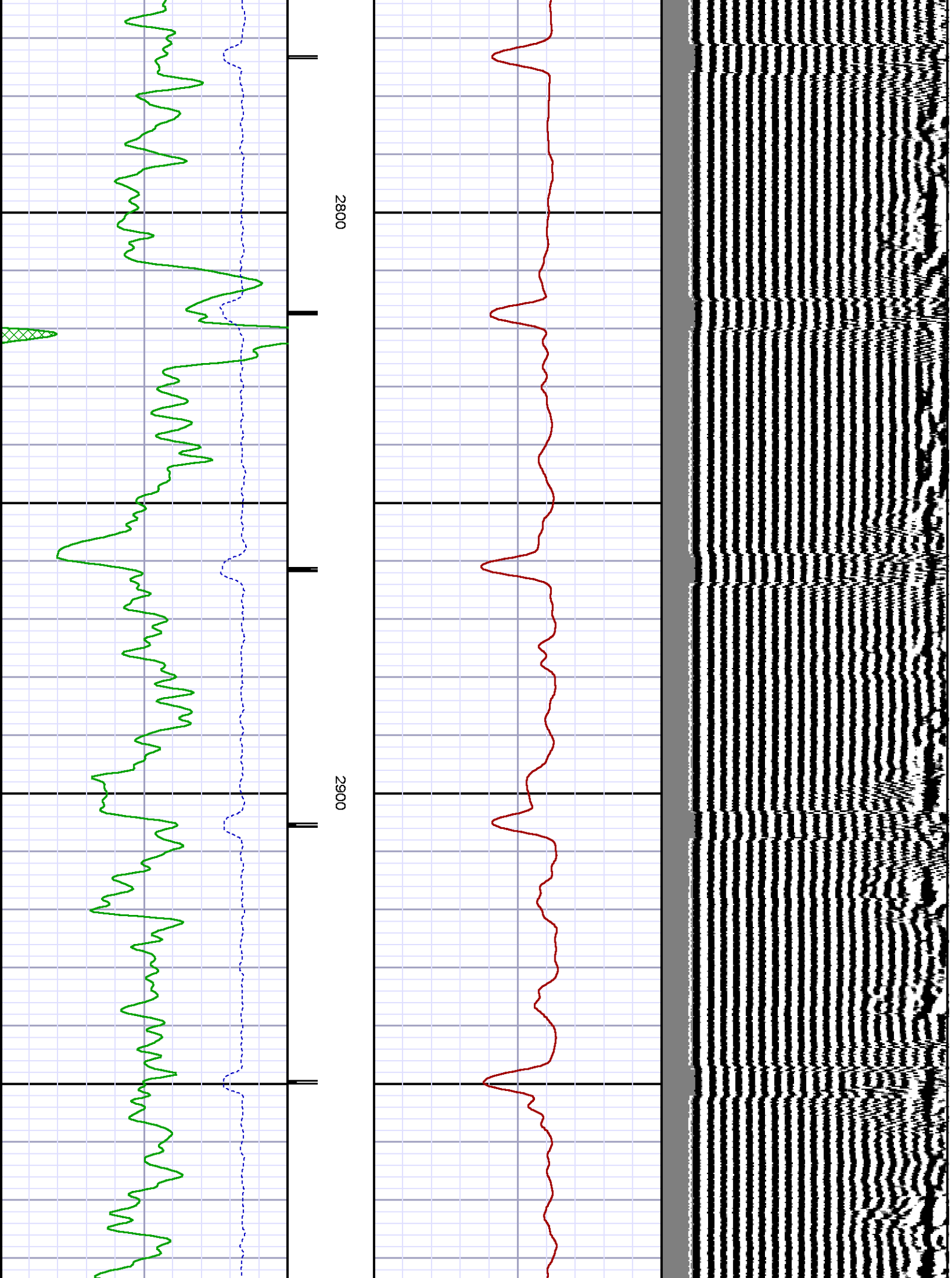


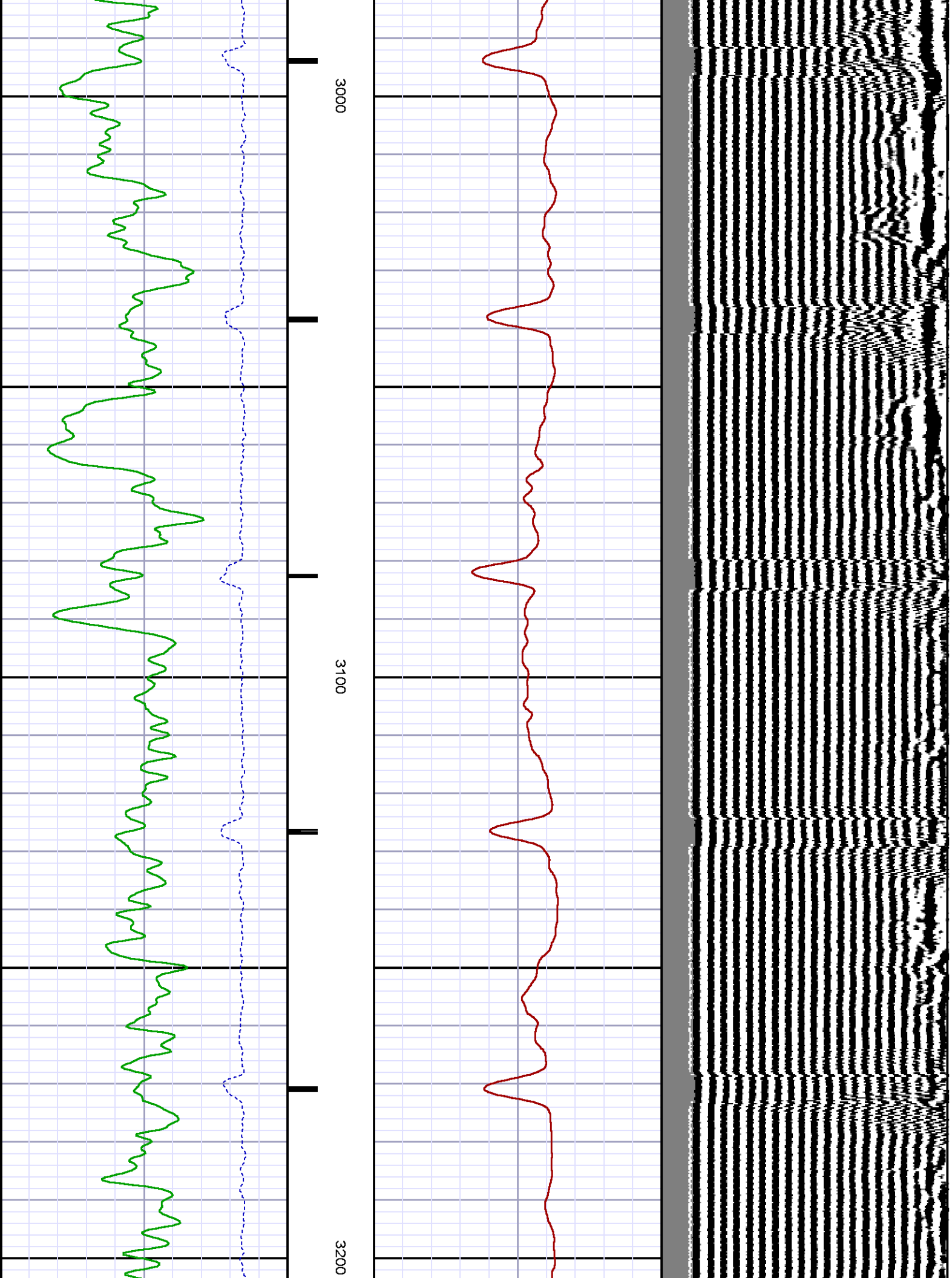


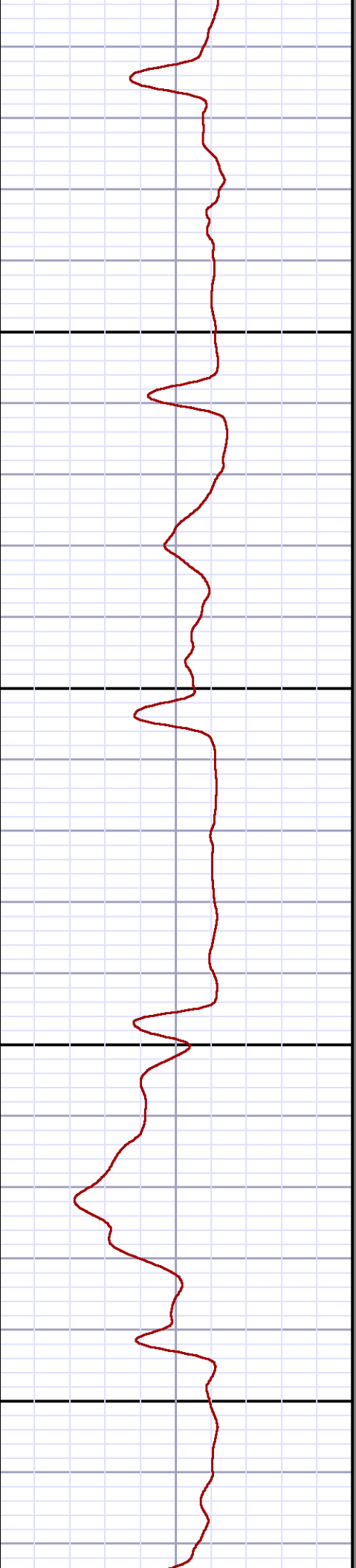
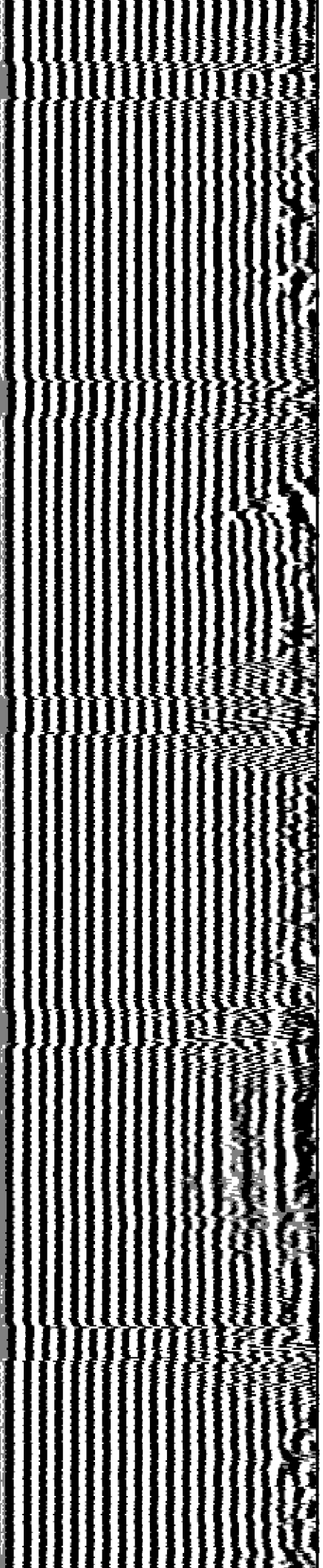






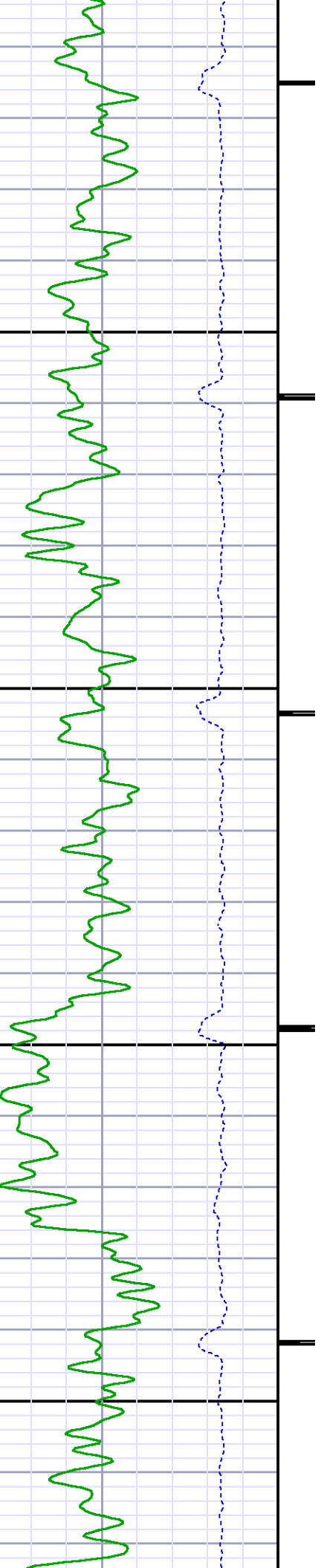


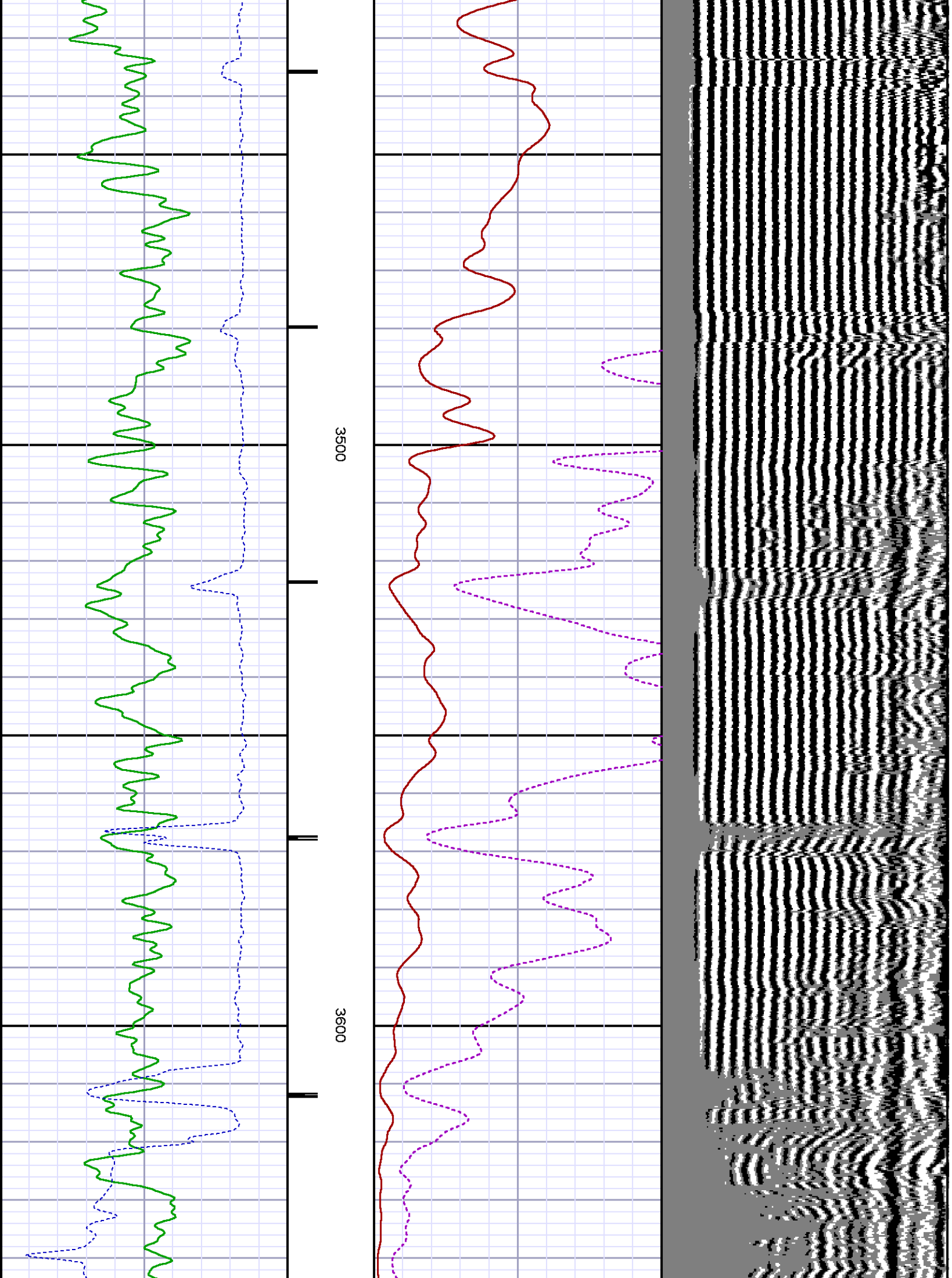


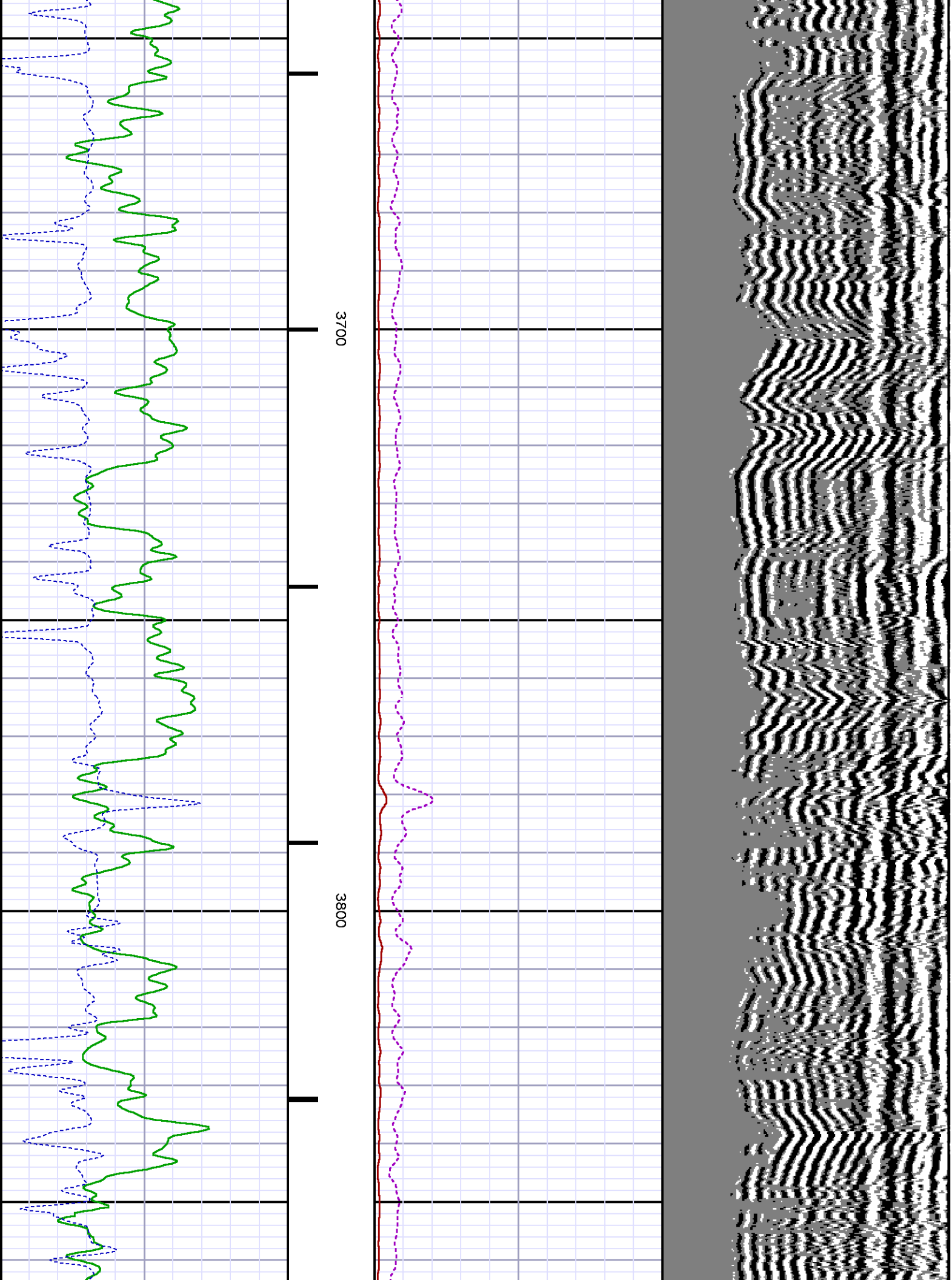


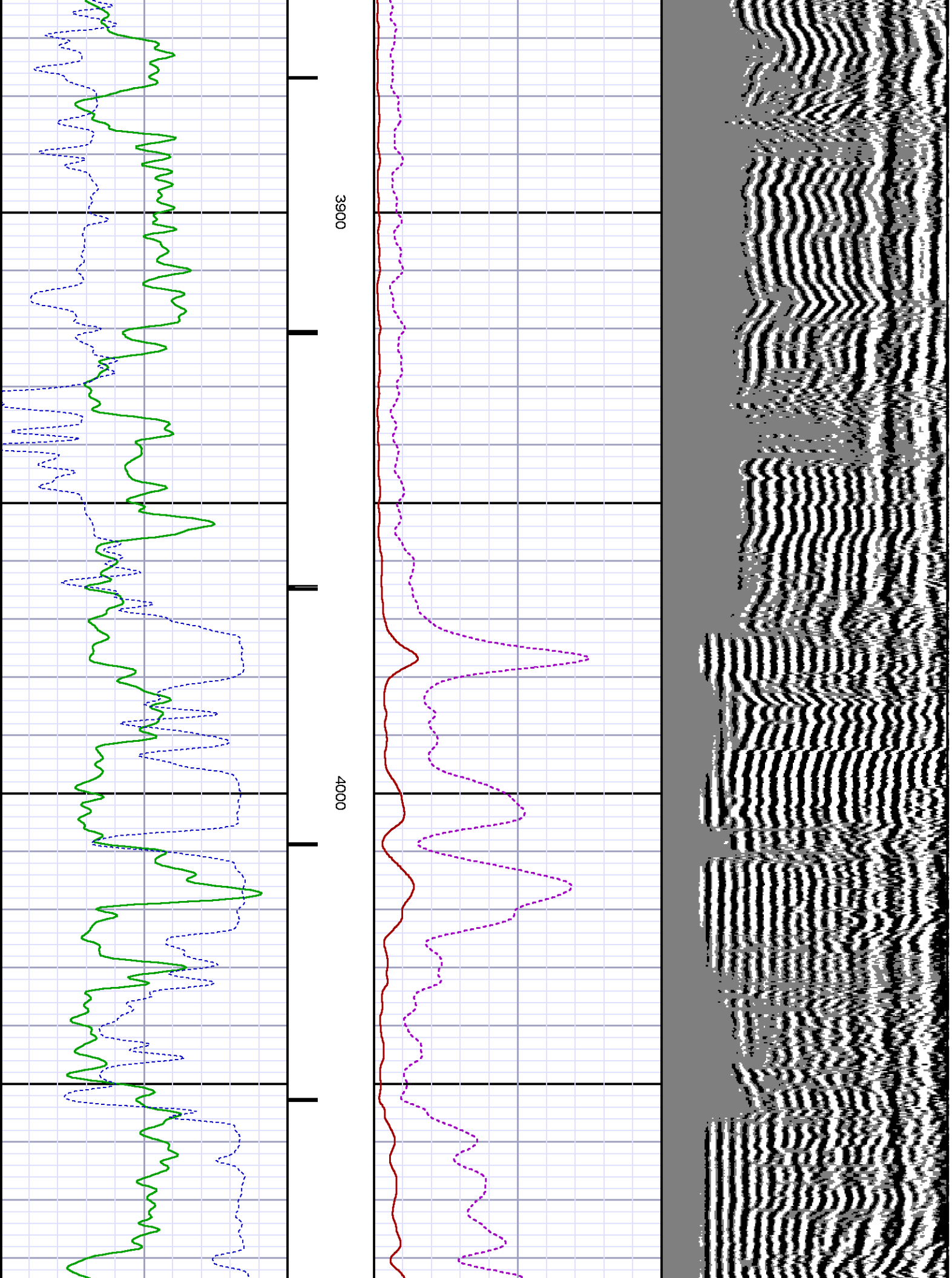
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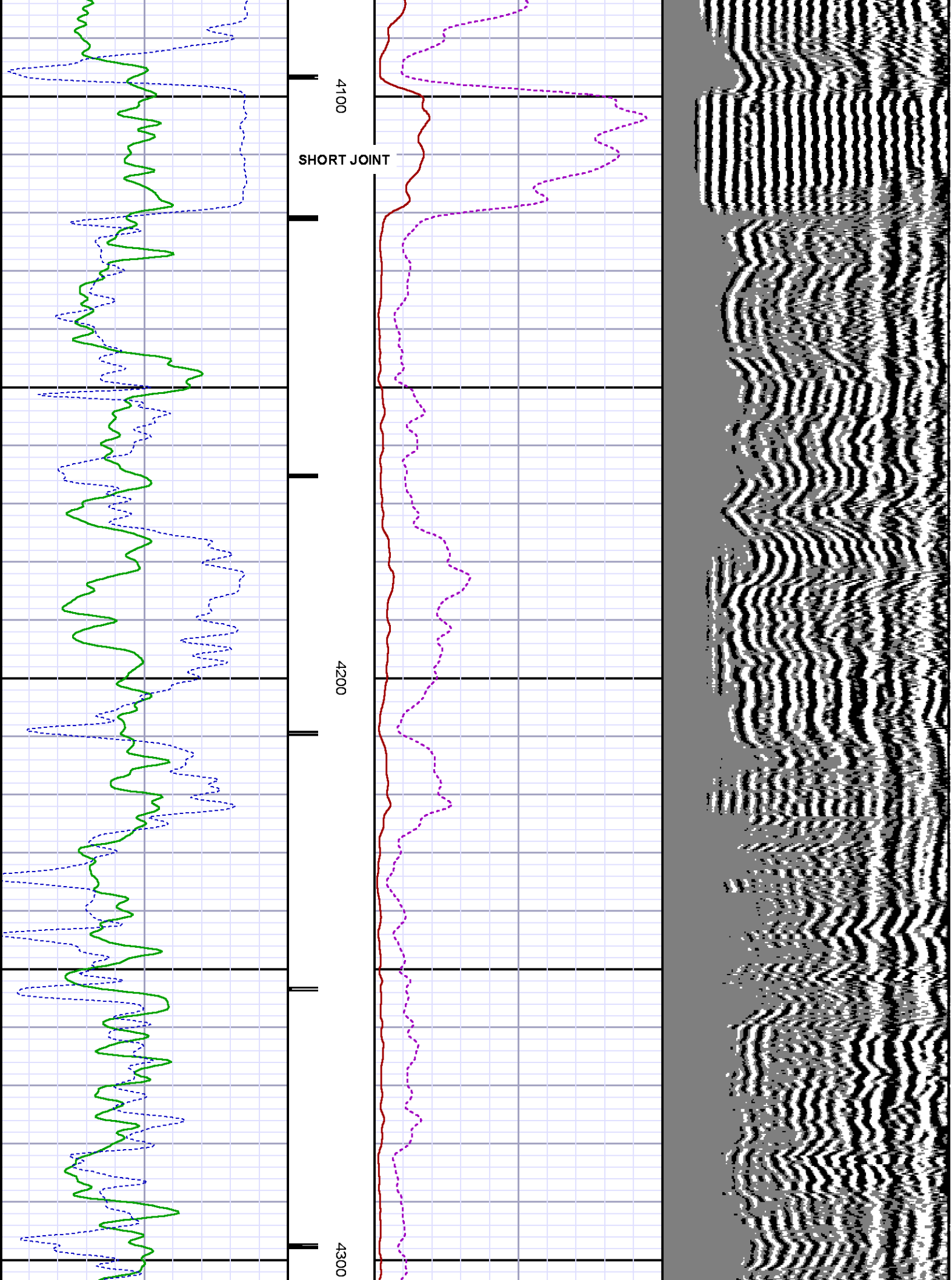
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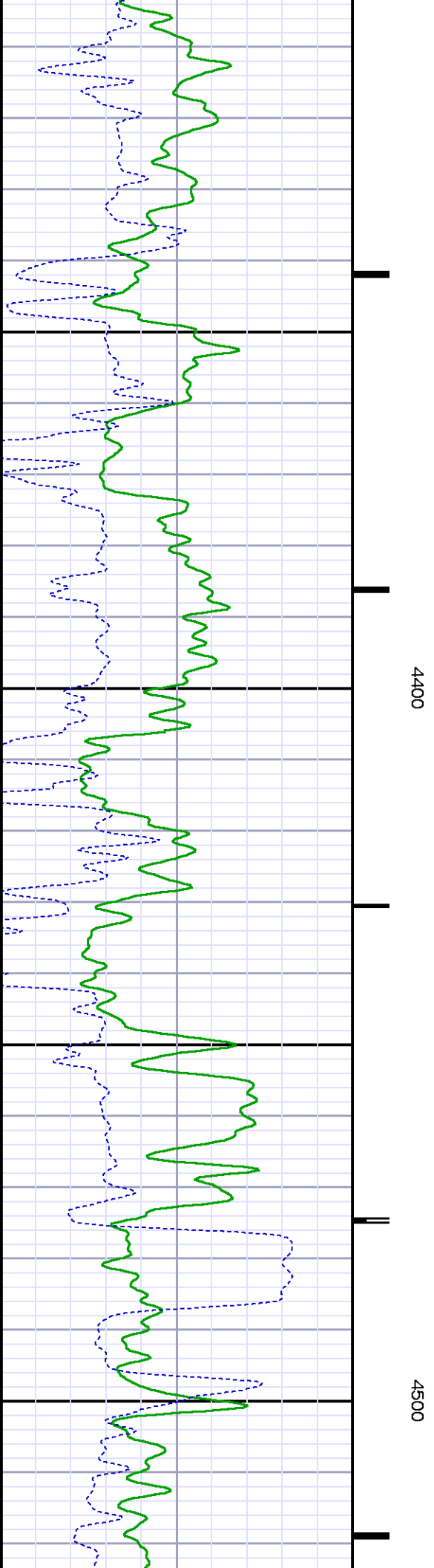
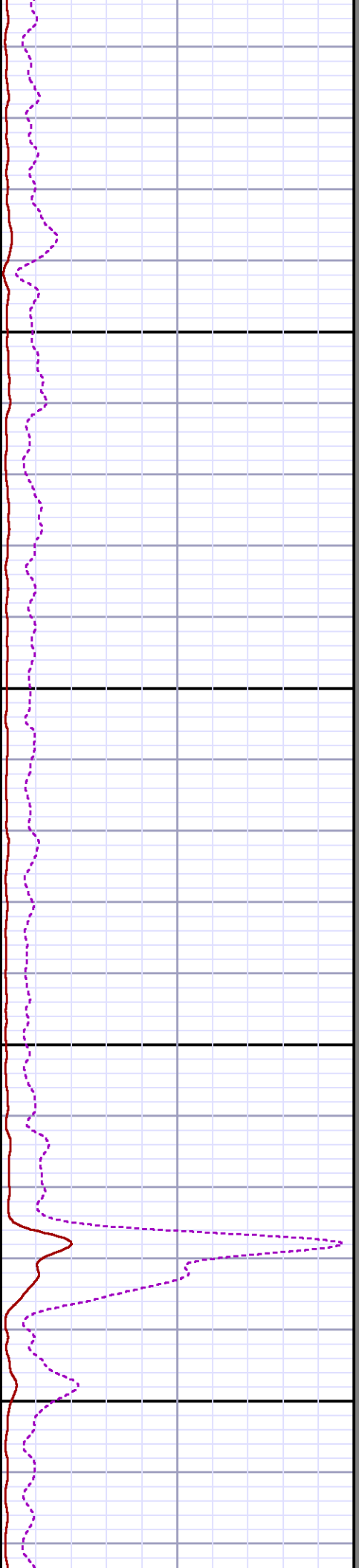
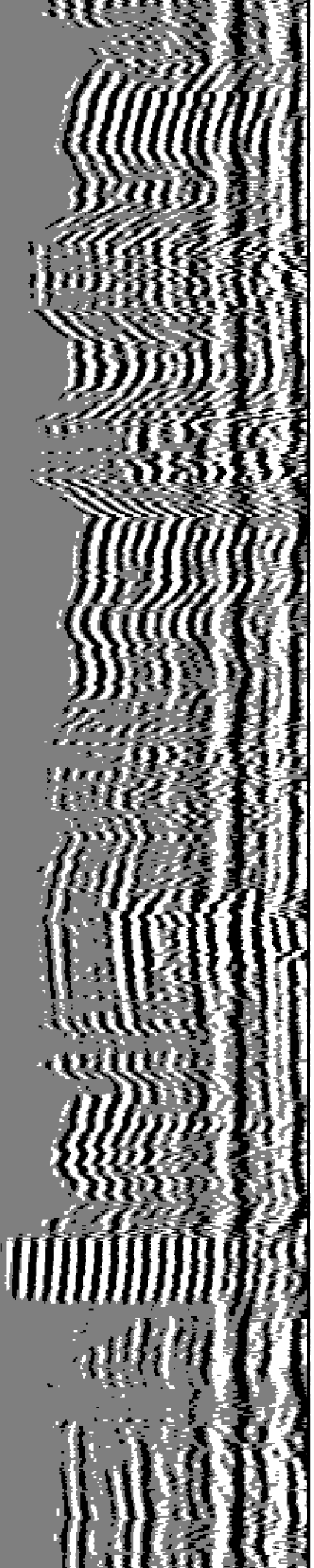


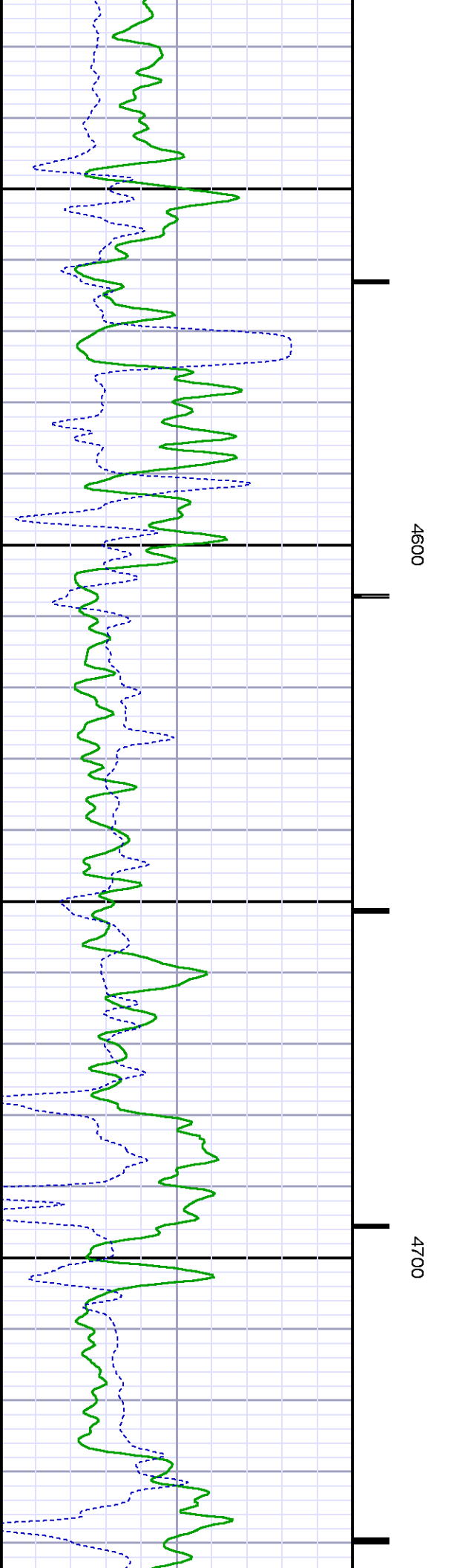
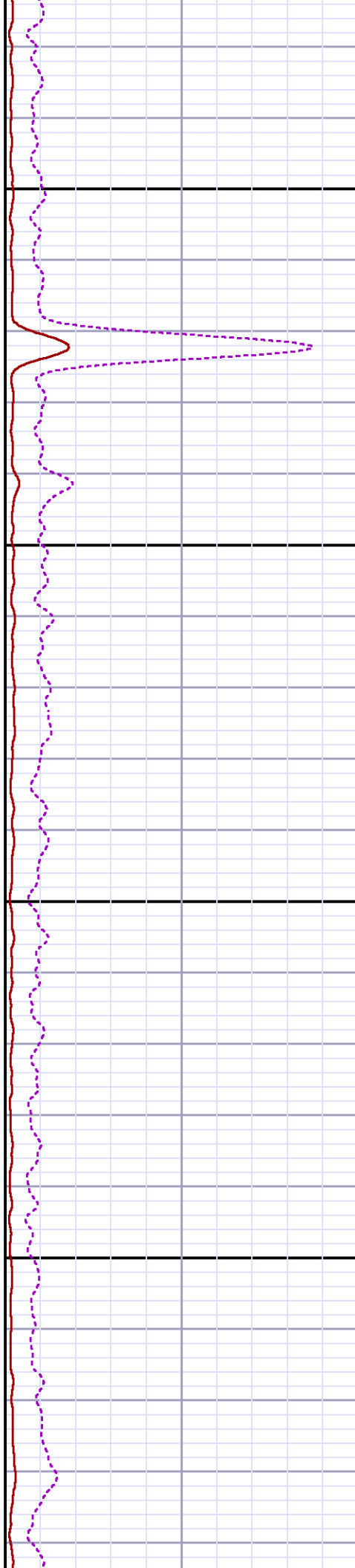
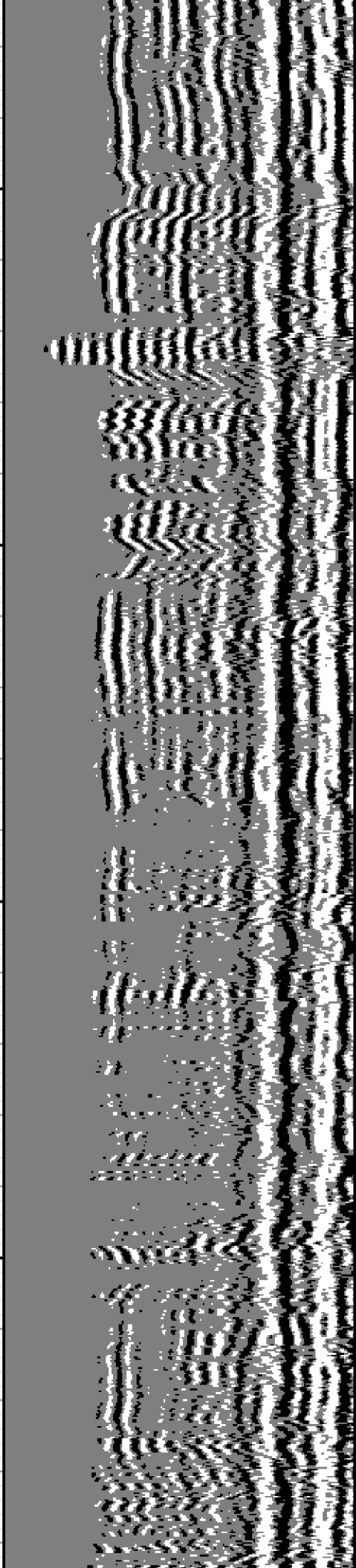


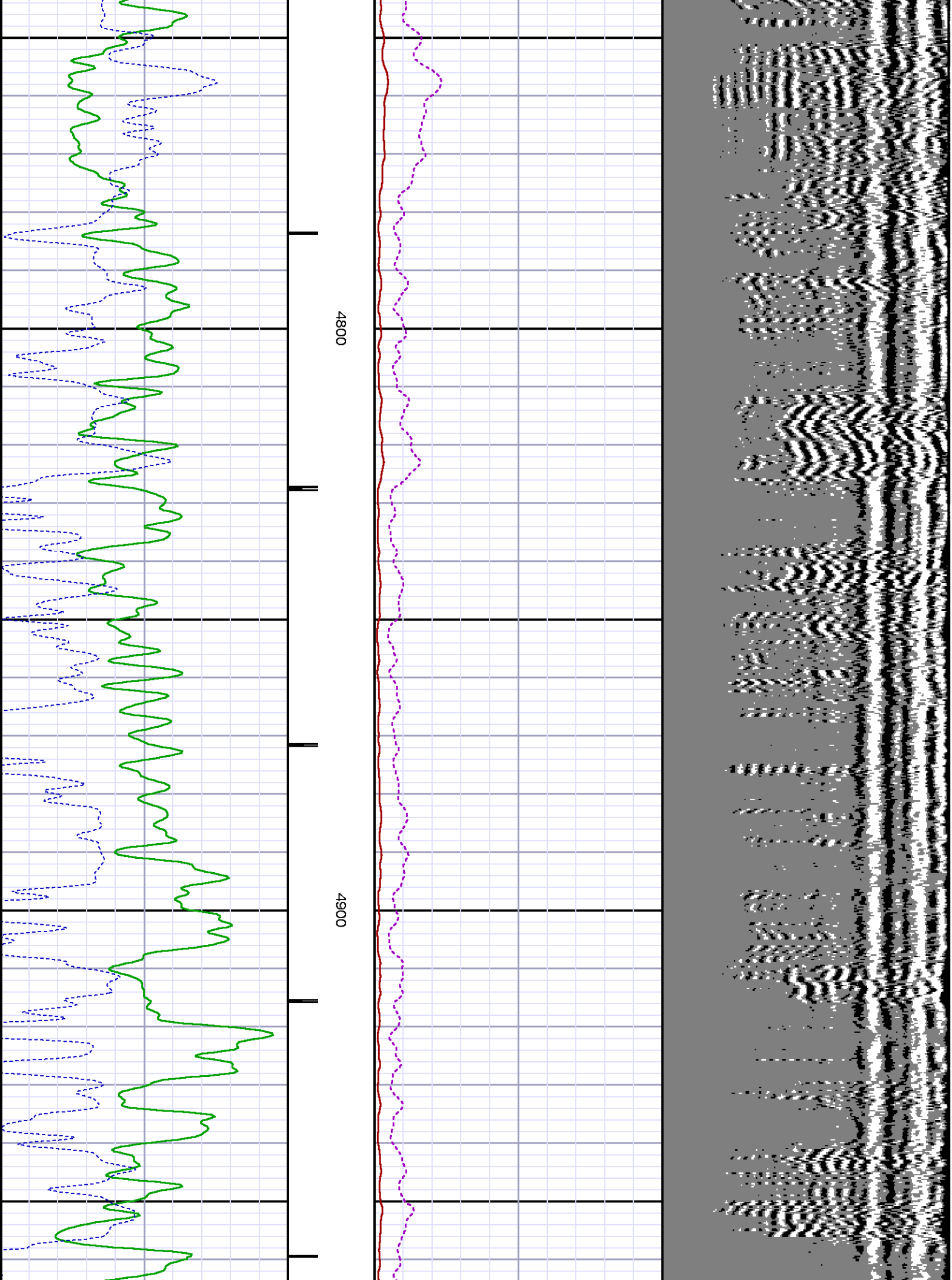


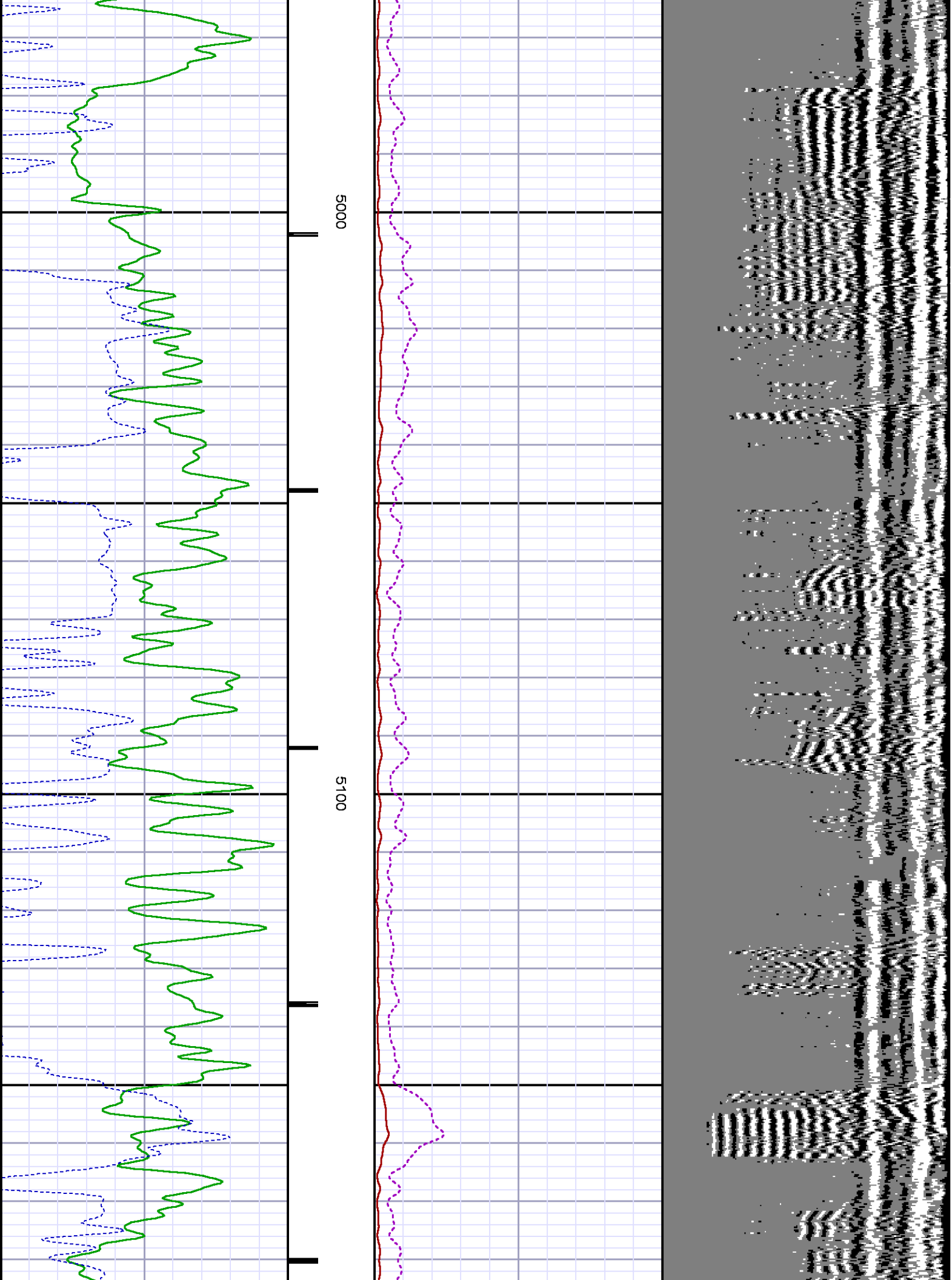


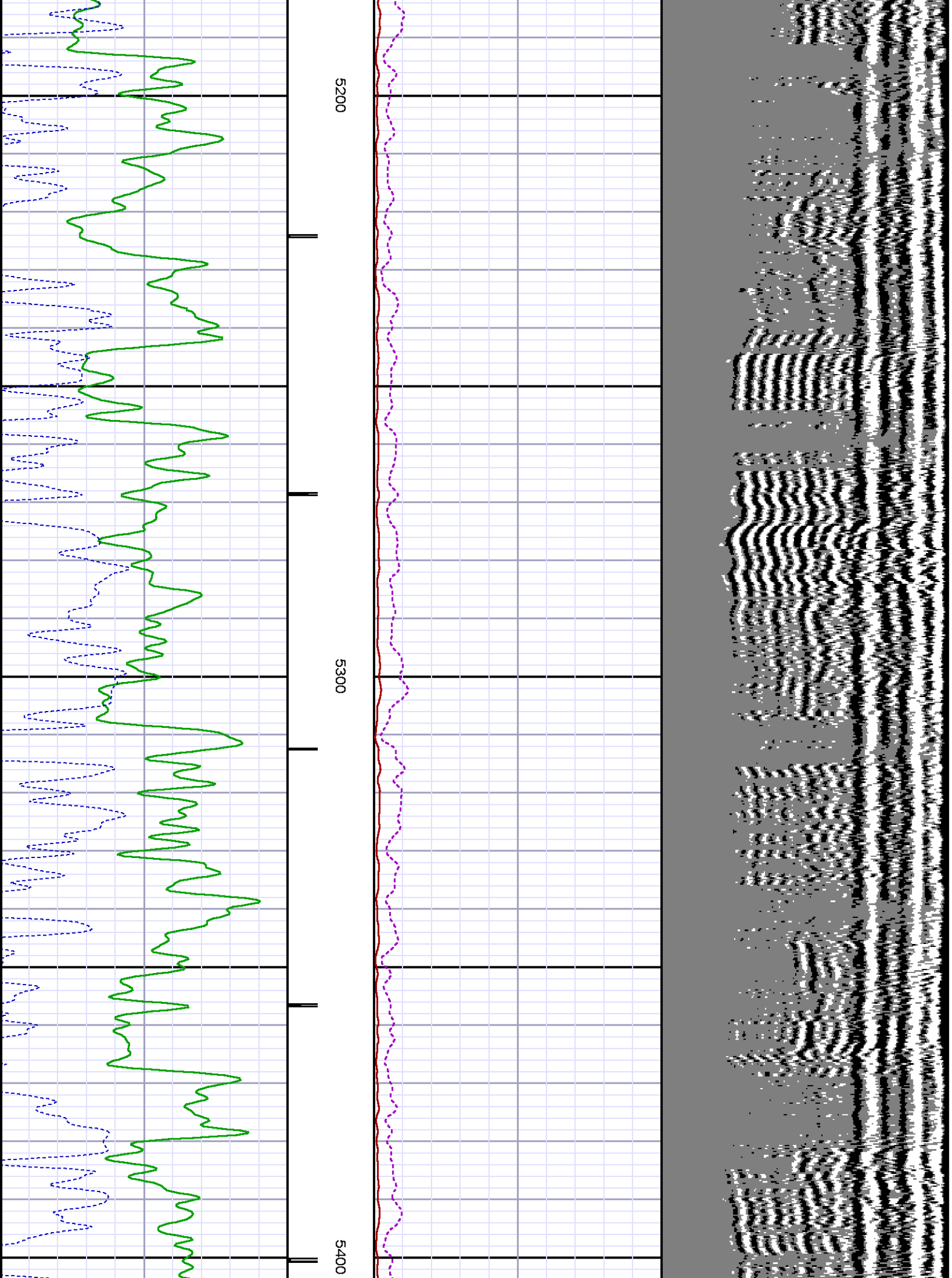


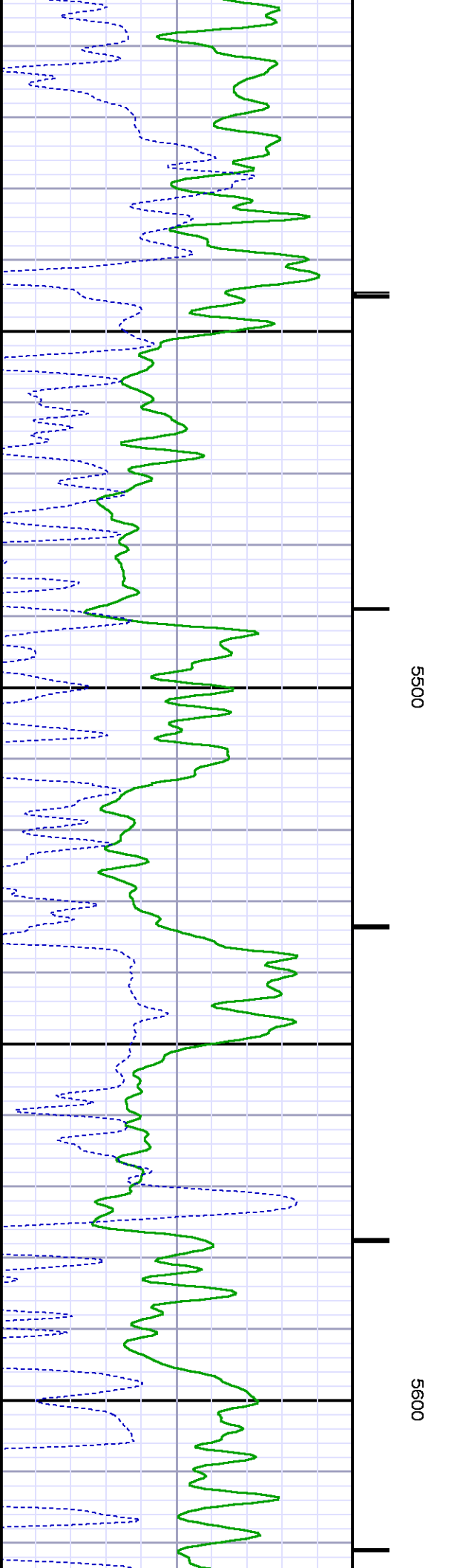
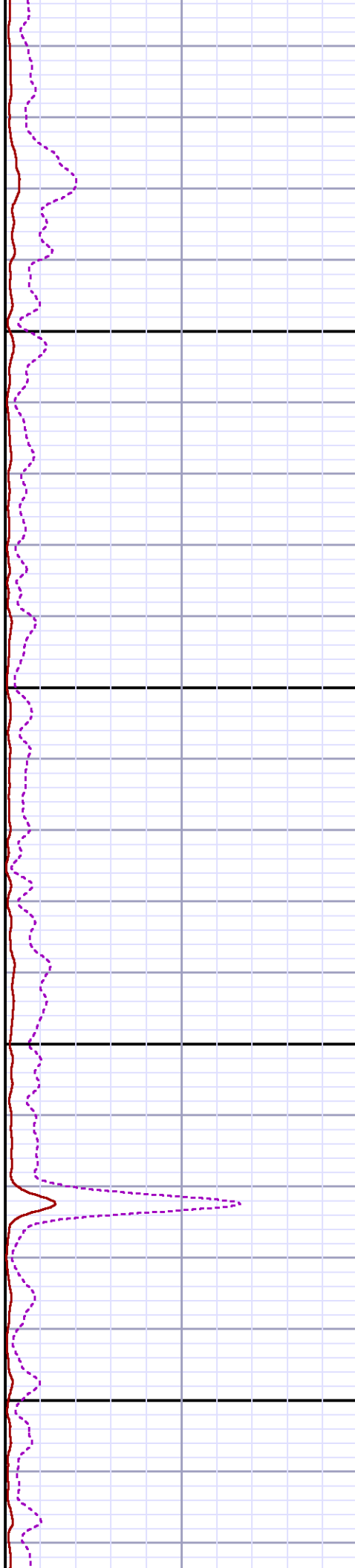
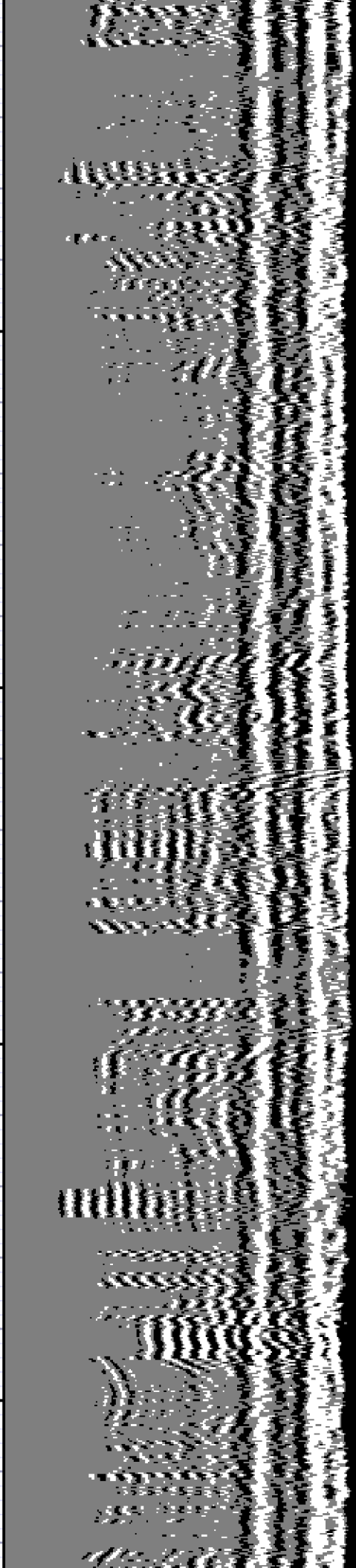


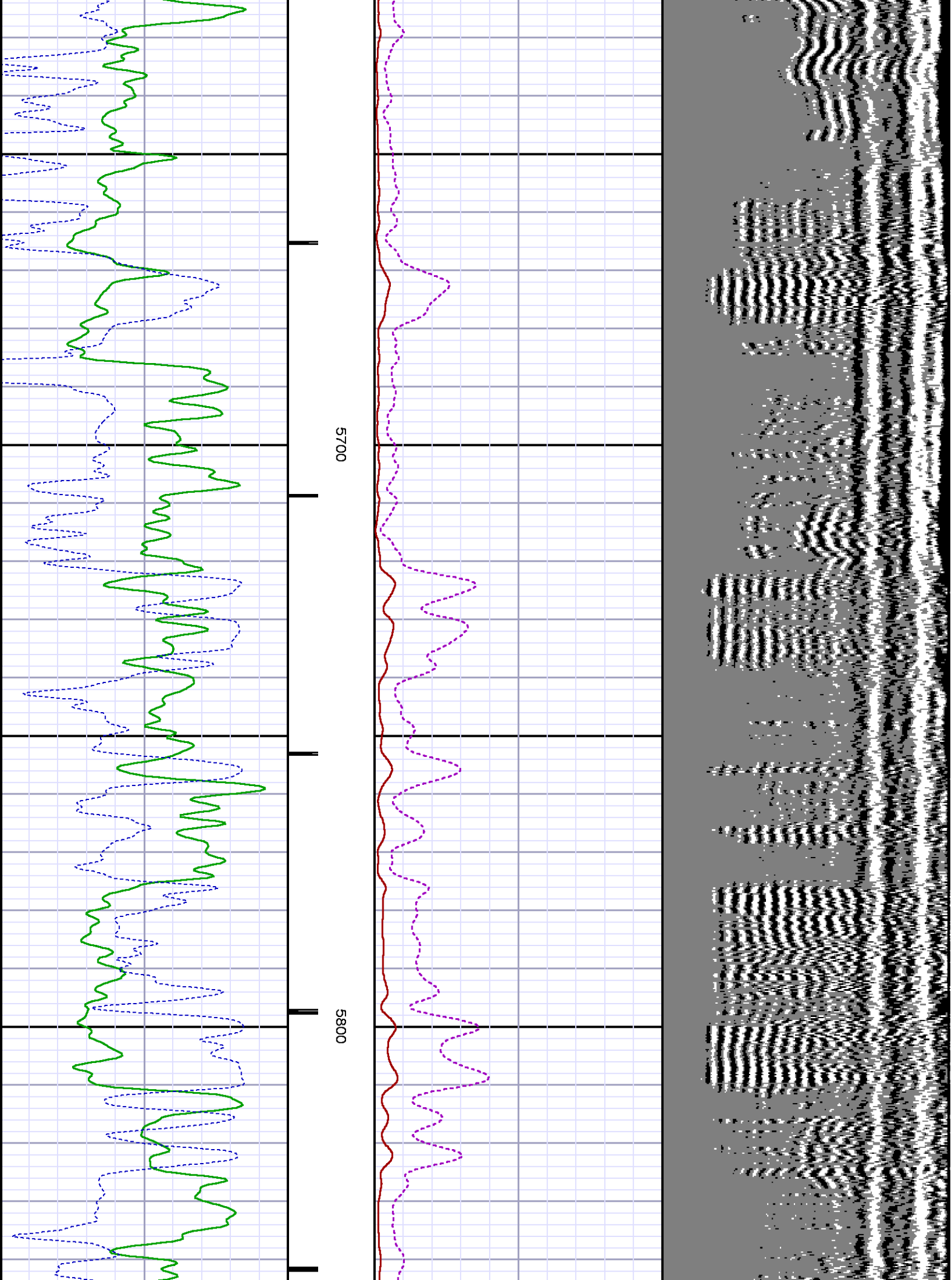


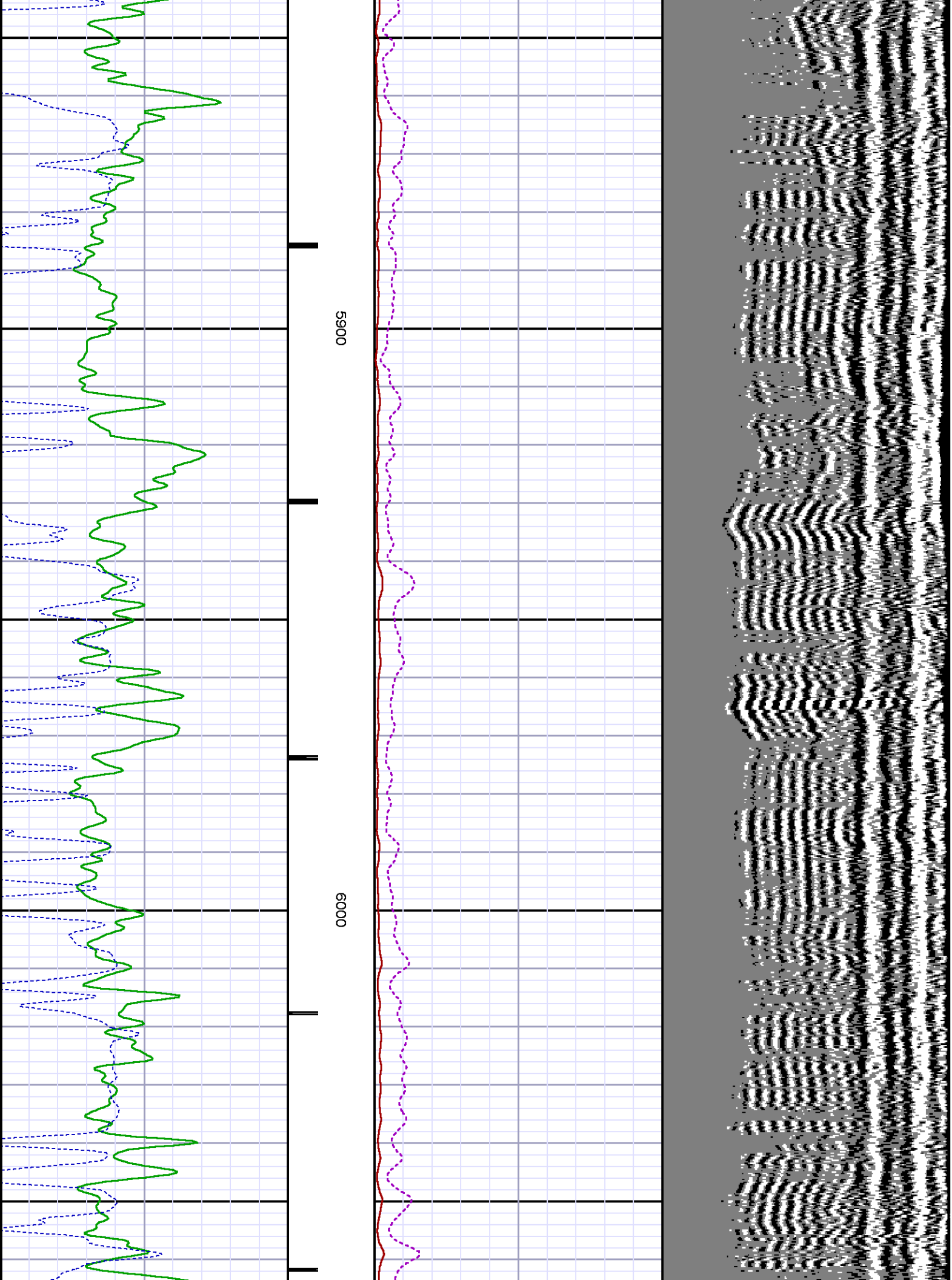


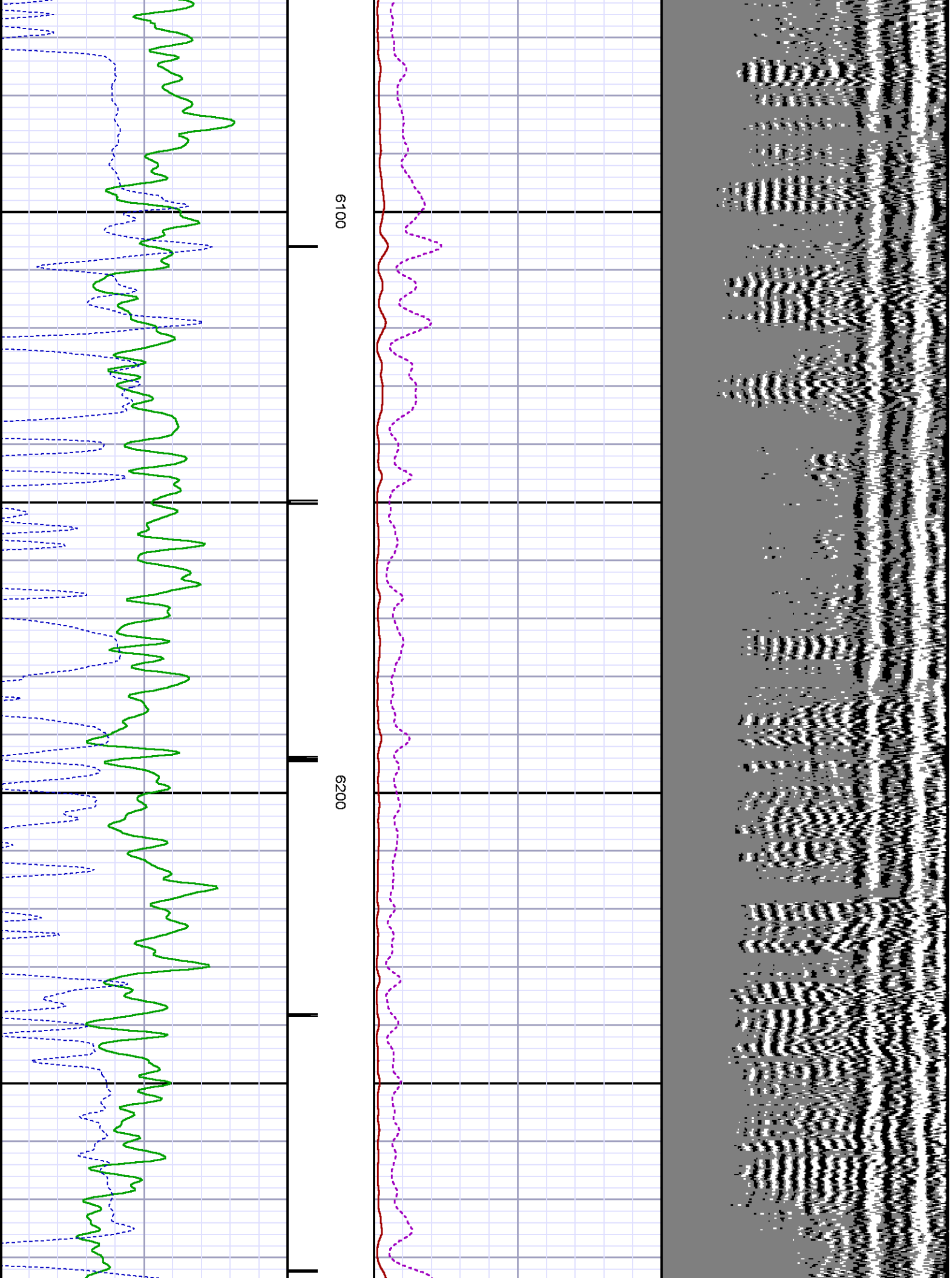


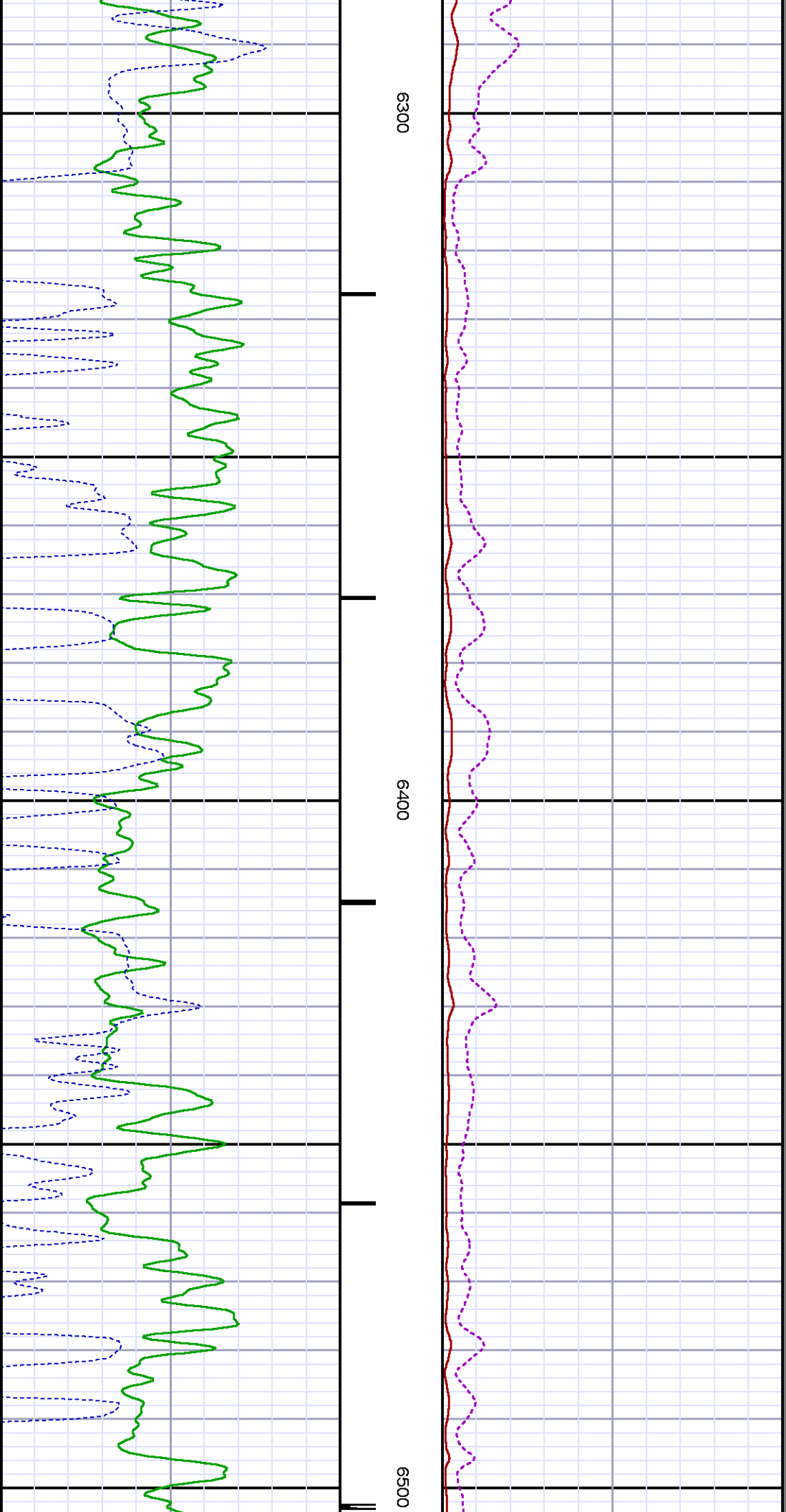
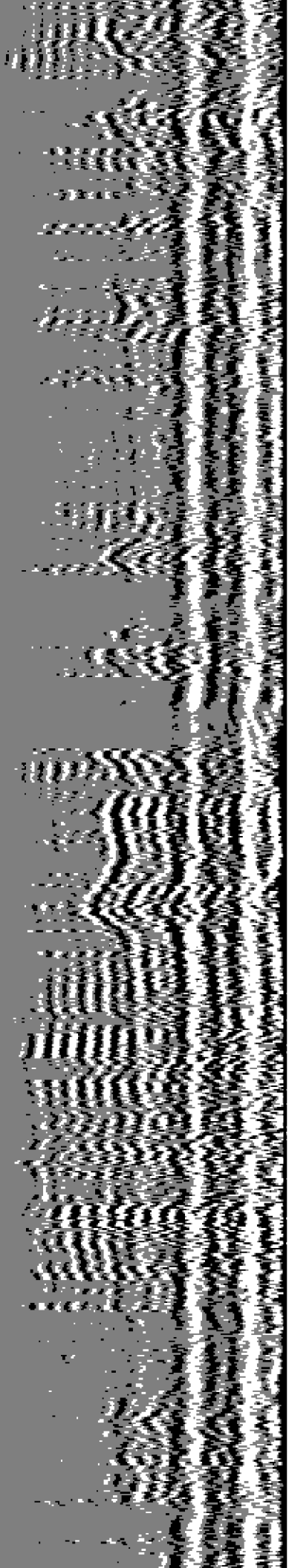


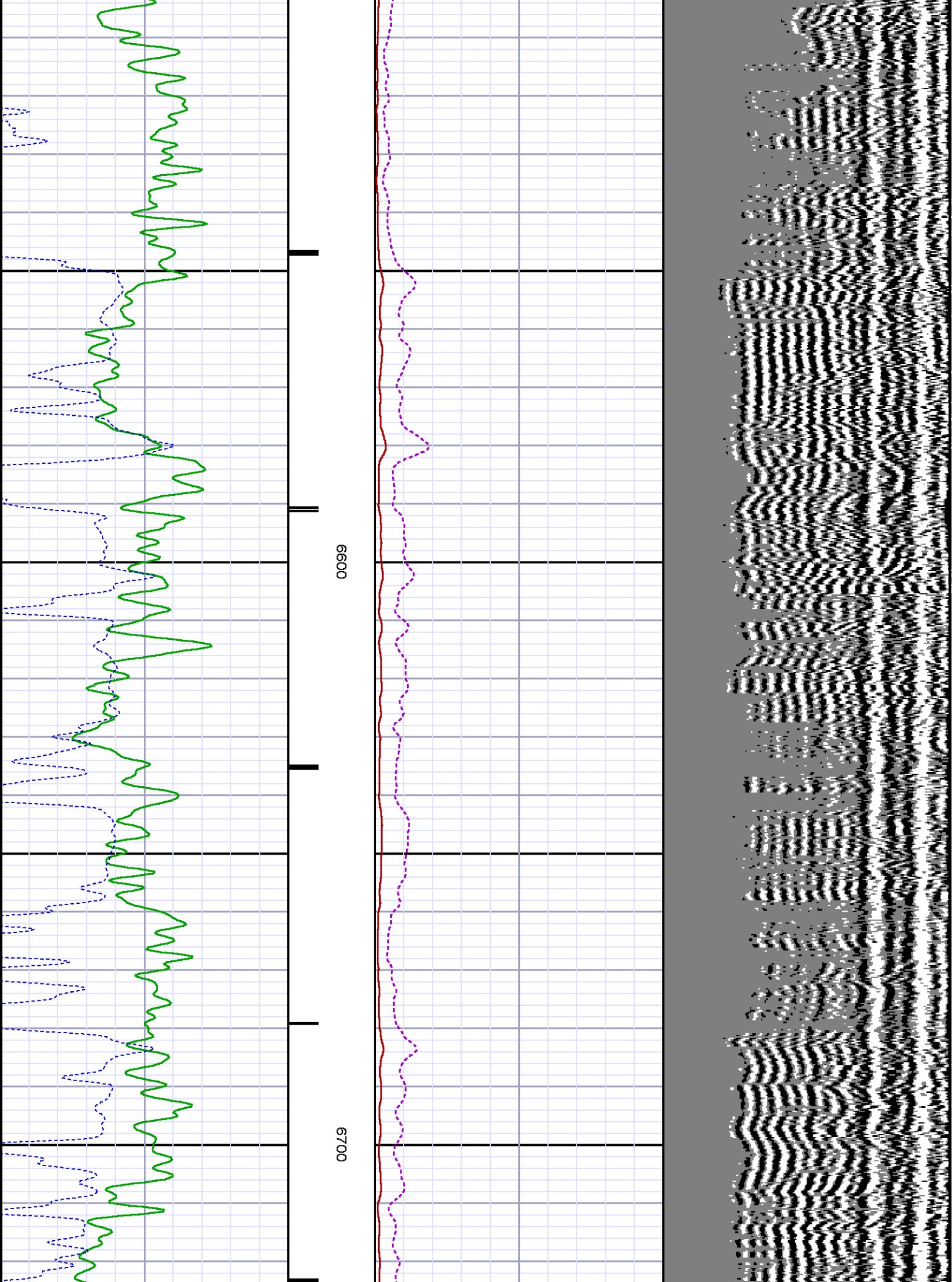


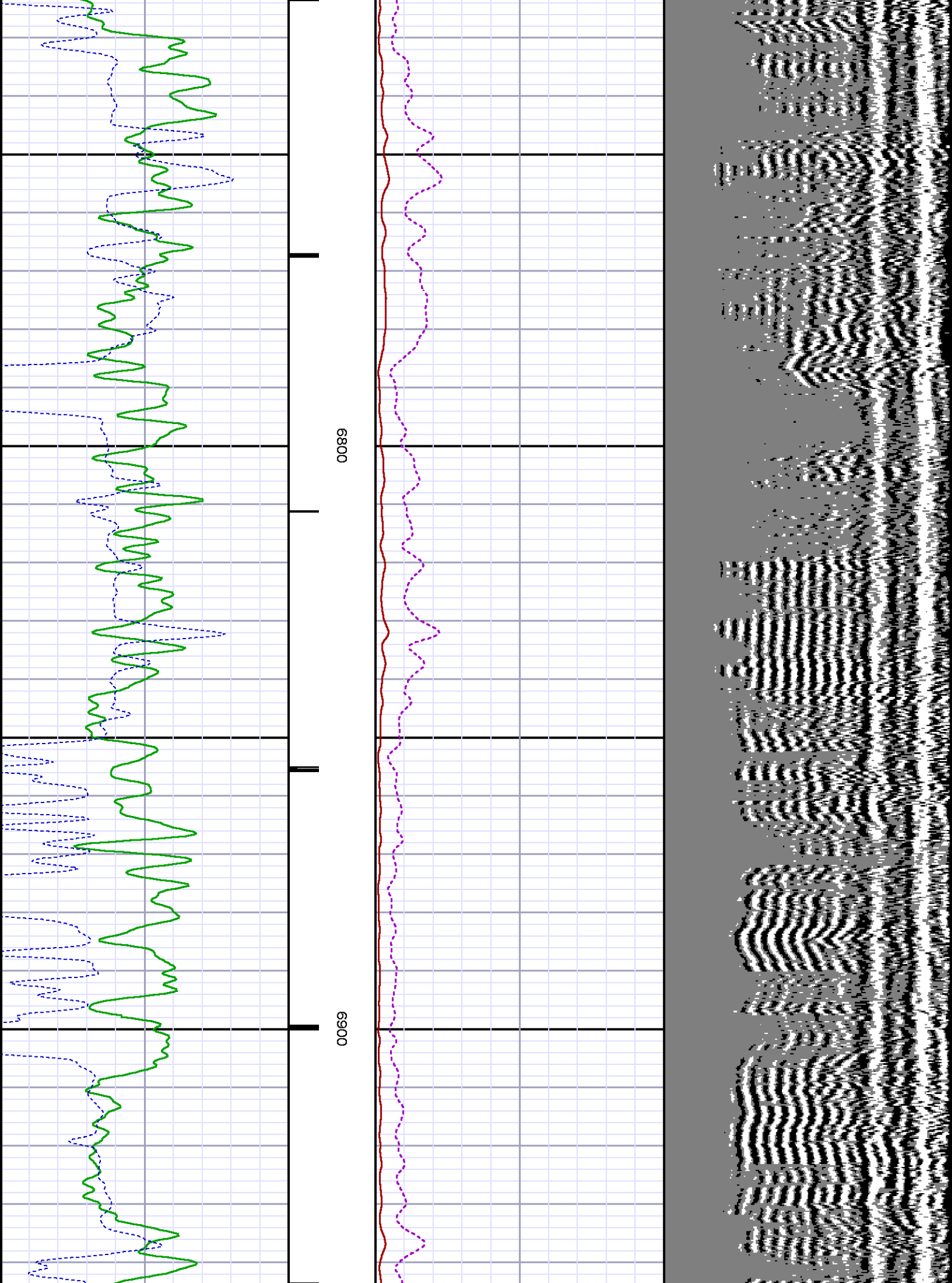


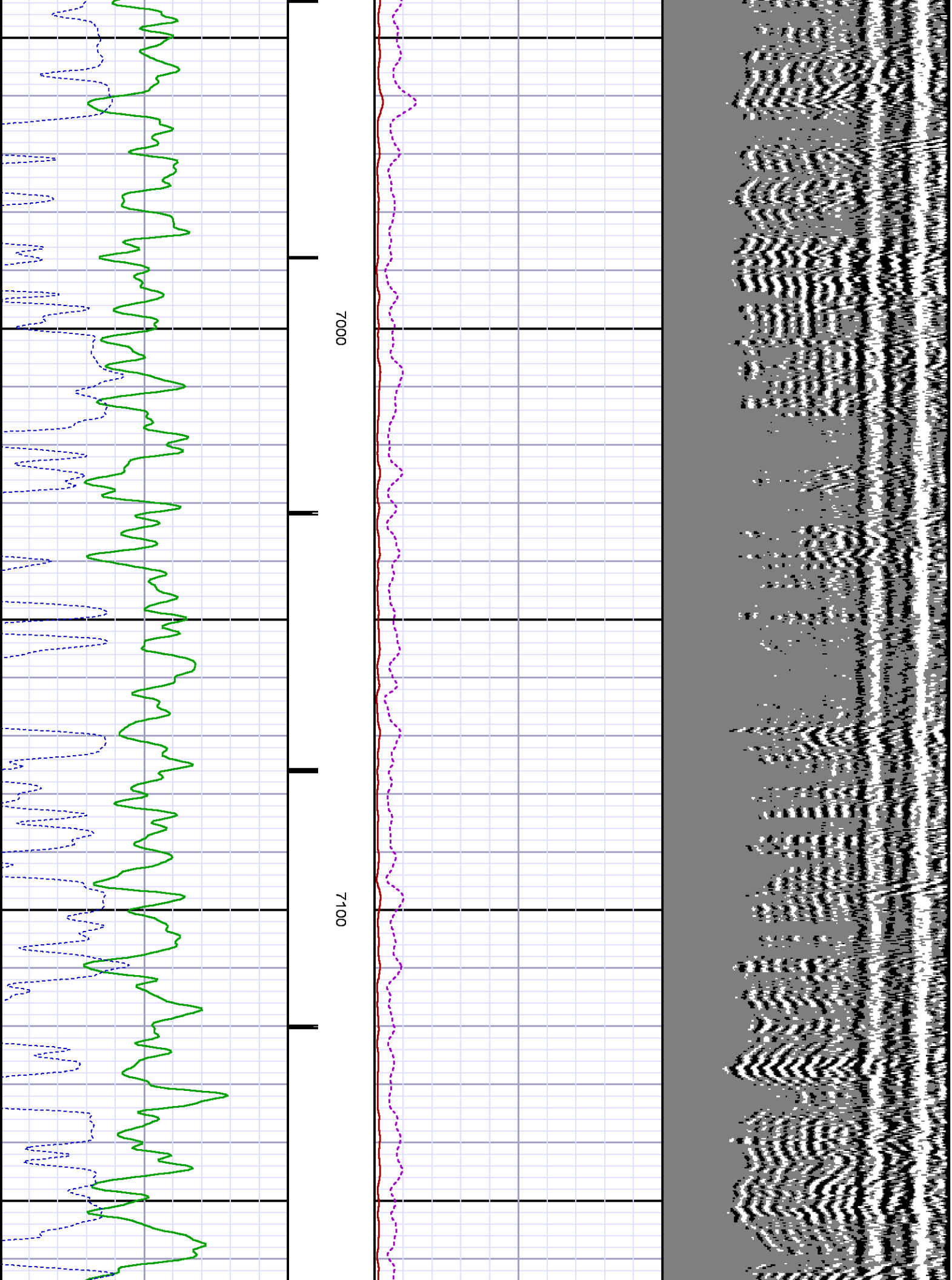


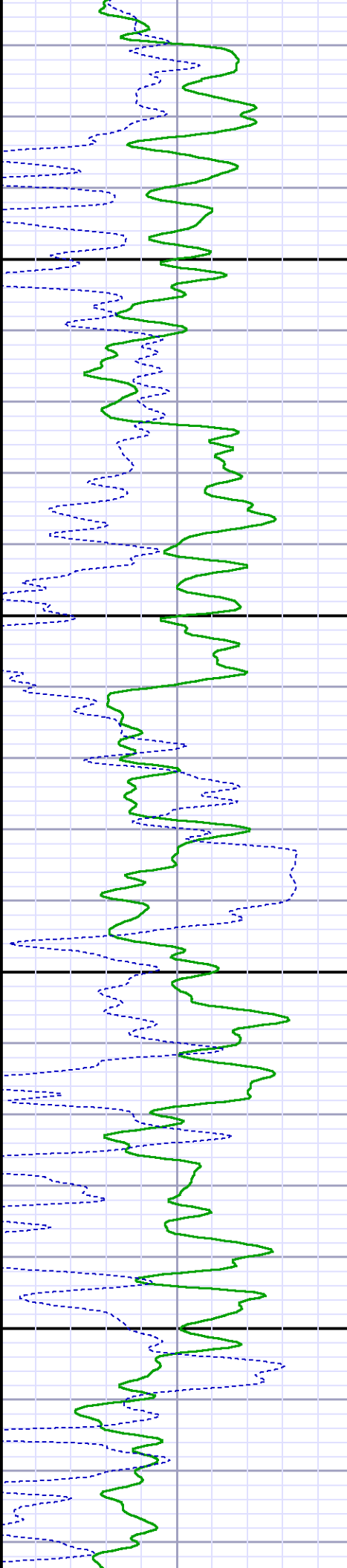
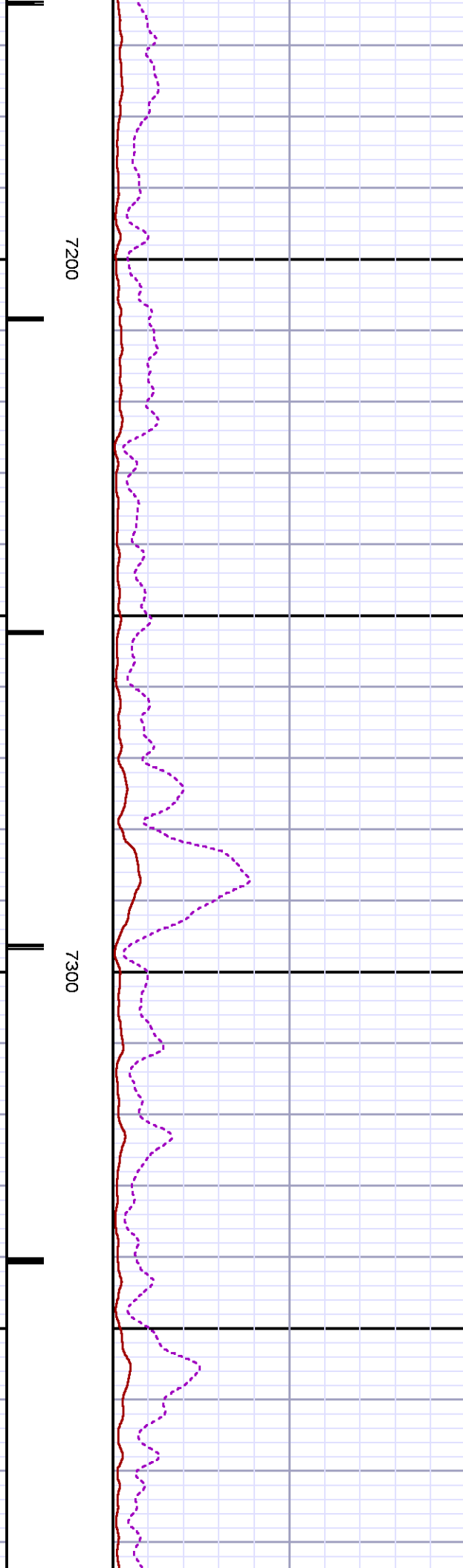
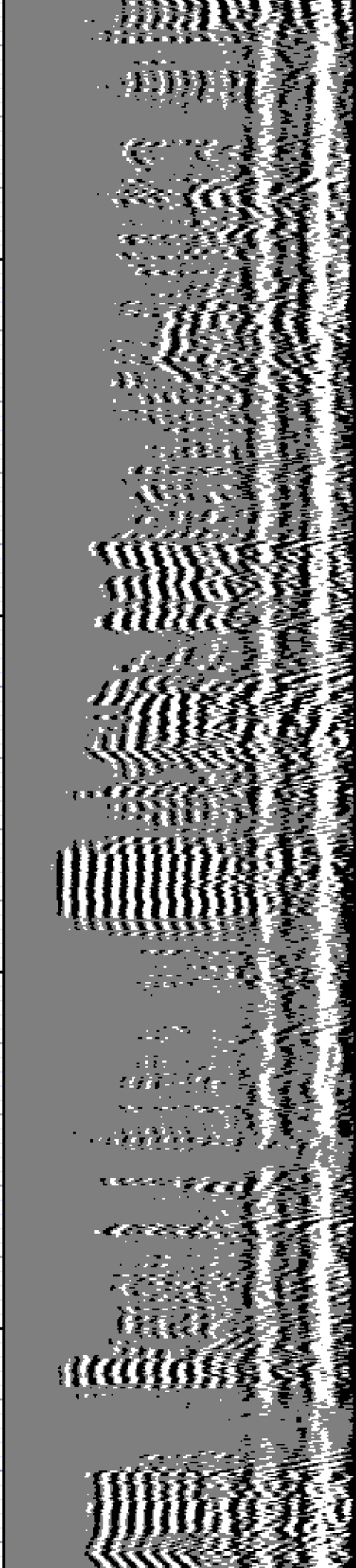


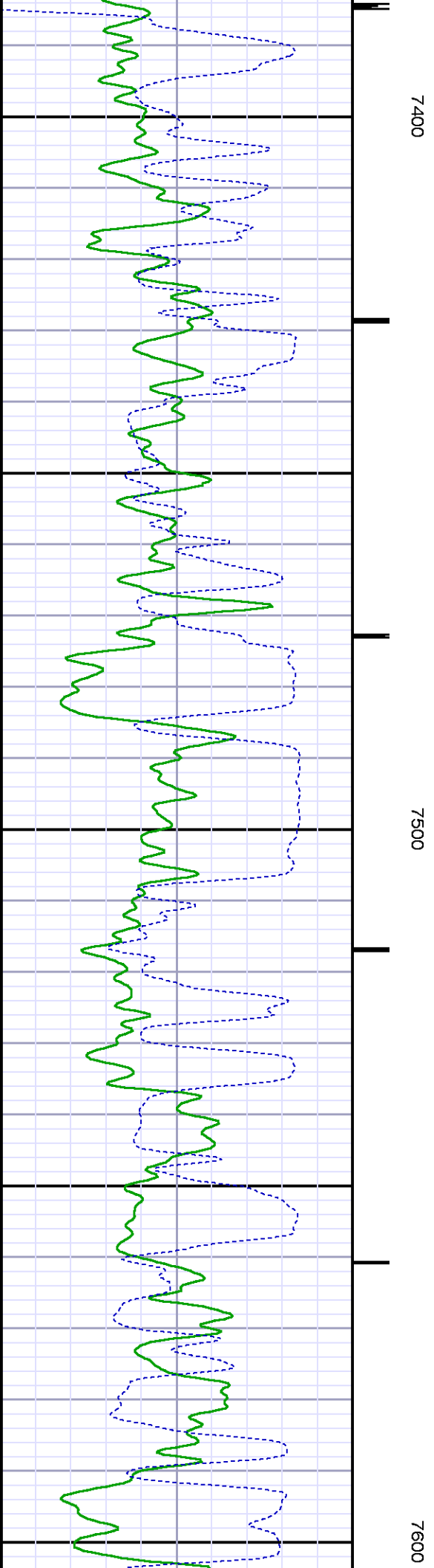
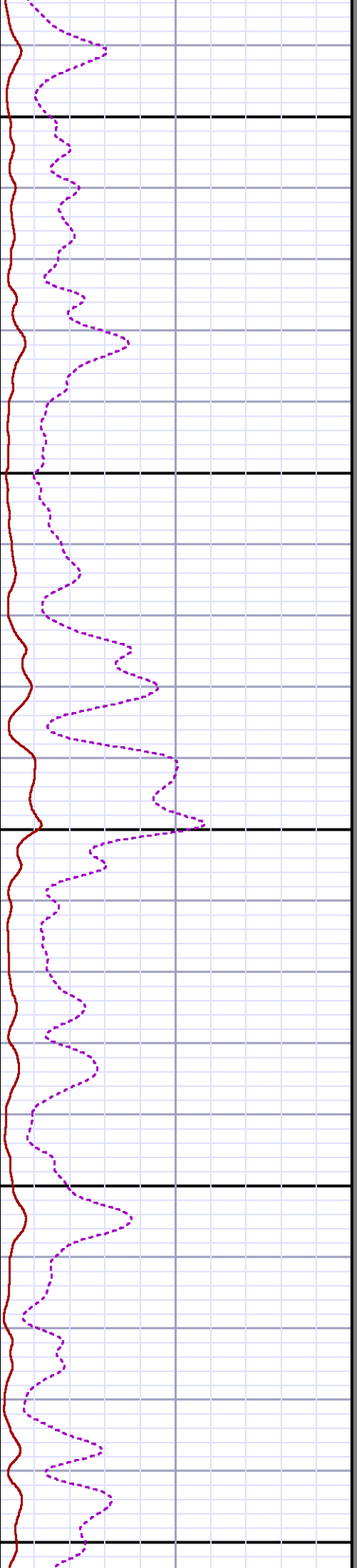
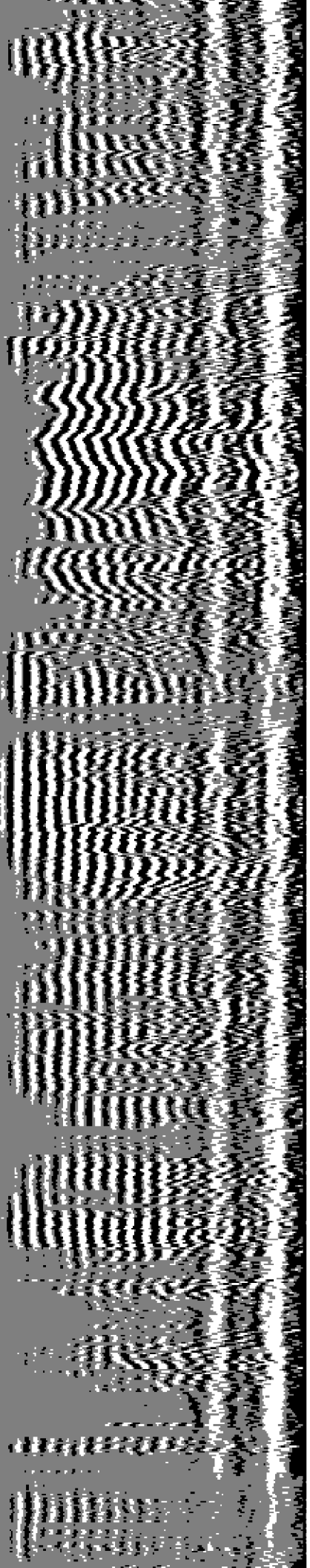


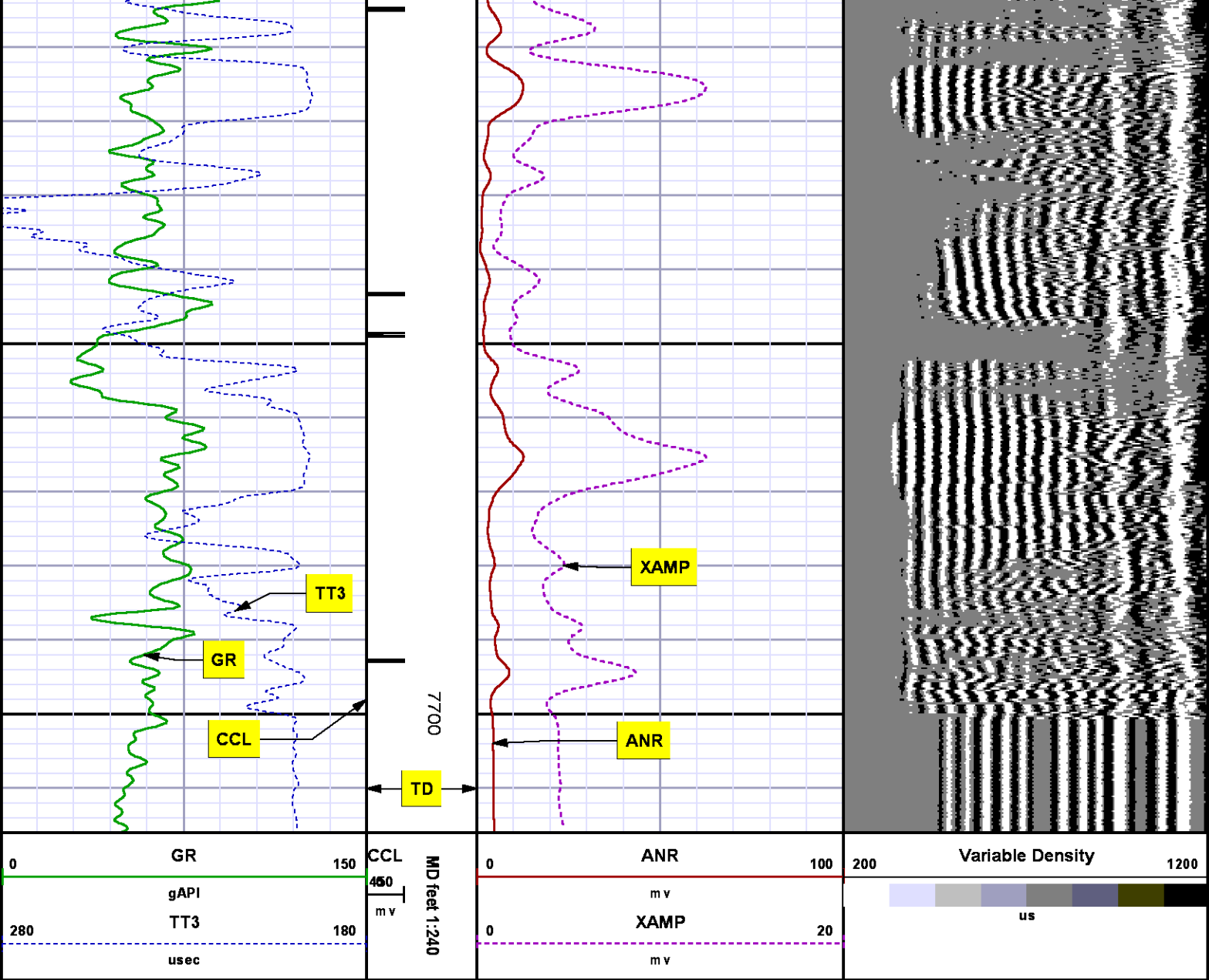












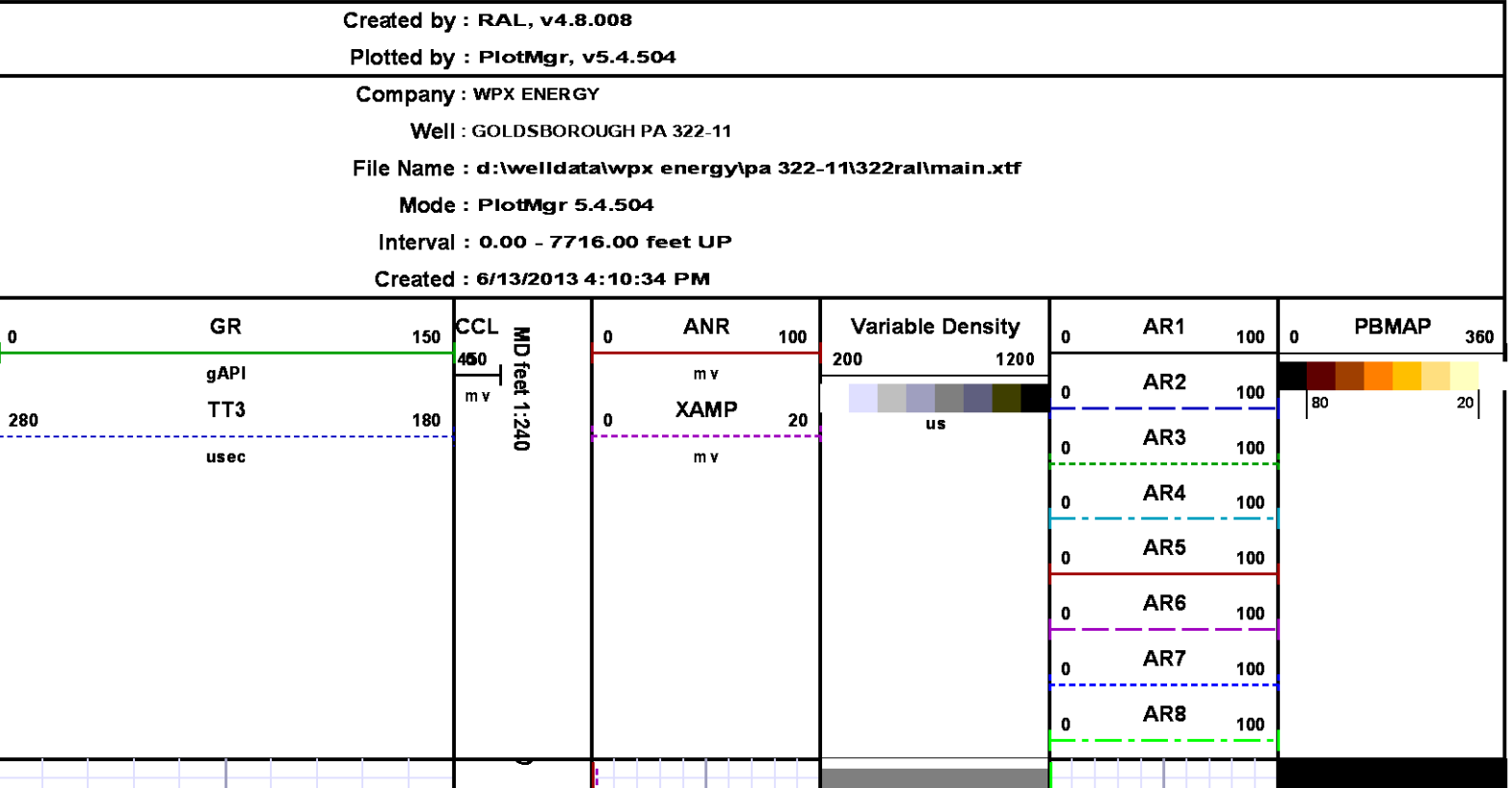
SECONDARY PRESENTATION
0 PSI

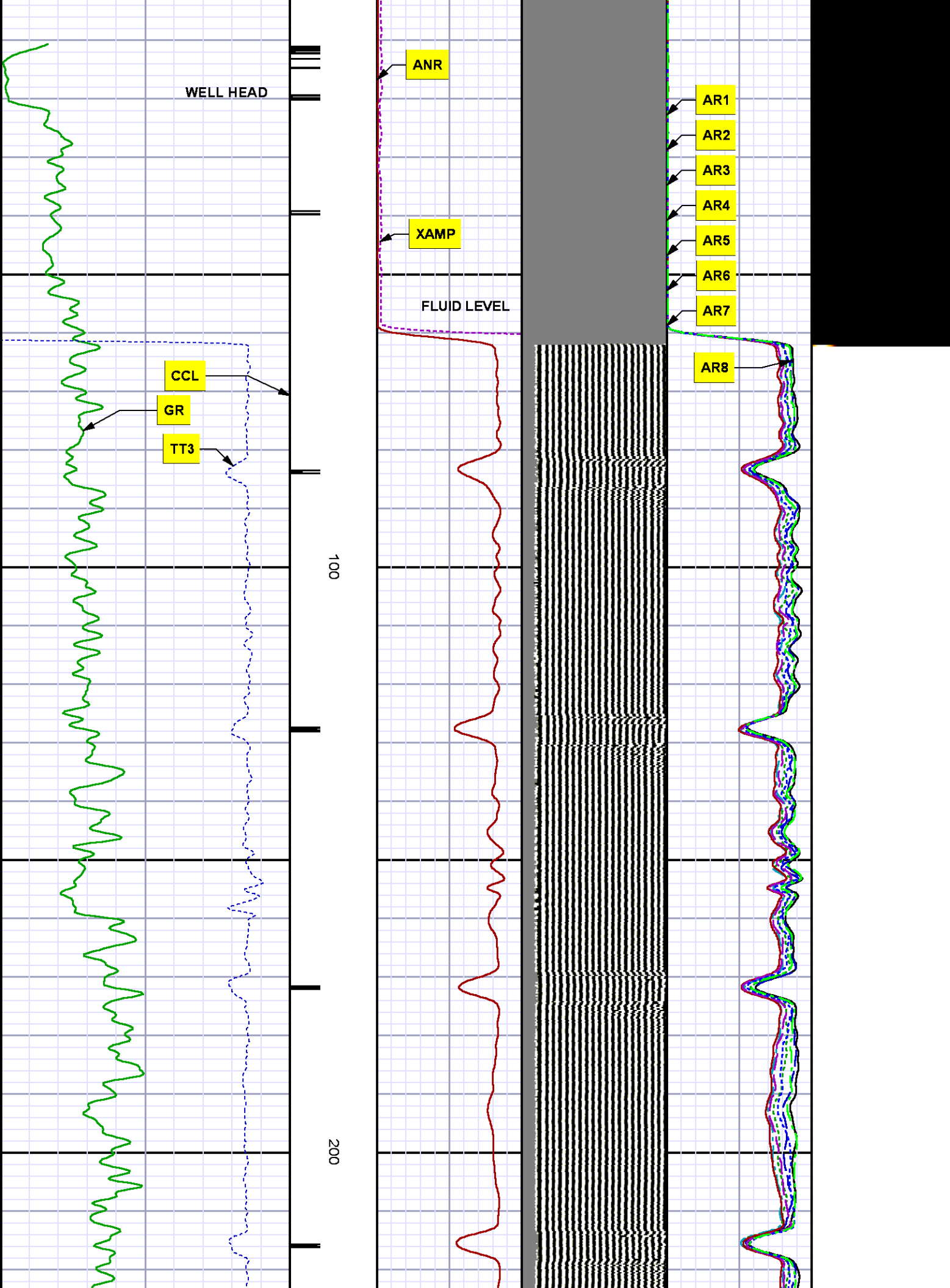
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	17.531	7728.000
RAL	Amp Gate Start Near	195.000	u sec	17.531	7728.000
RAL	Amp Gate Start Radial	195.000	u sec	17.531	7728.000

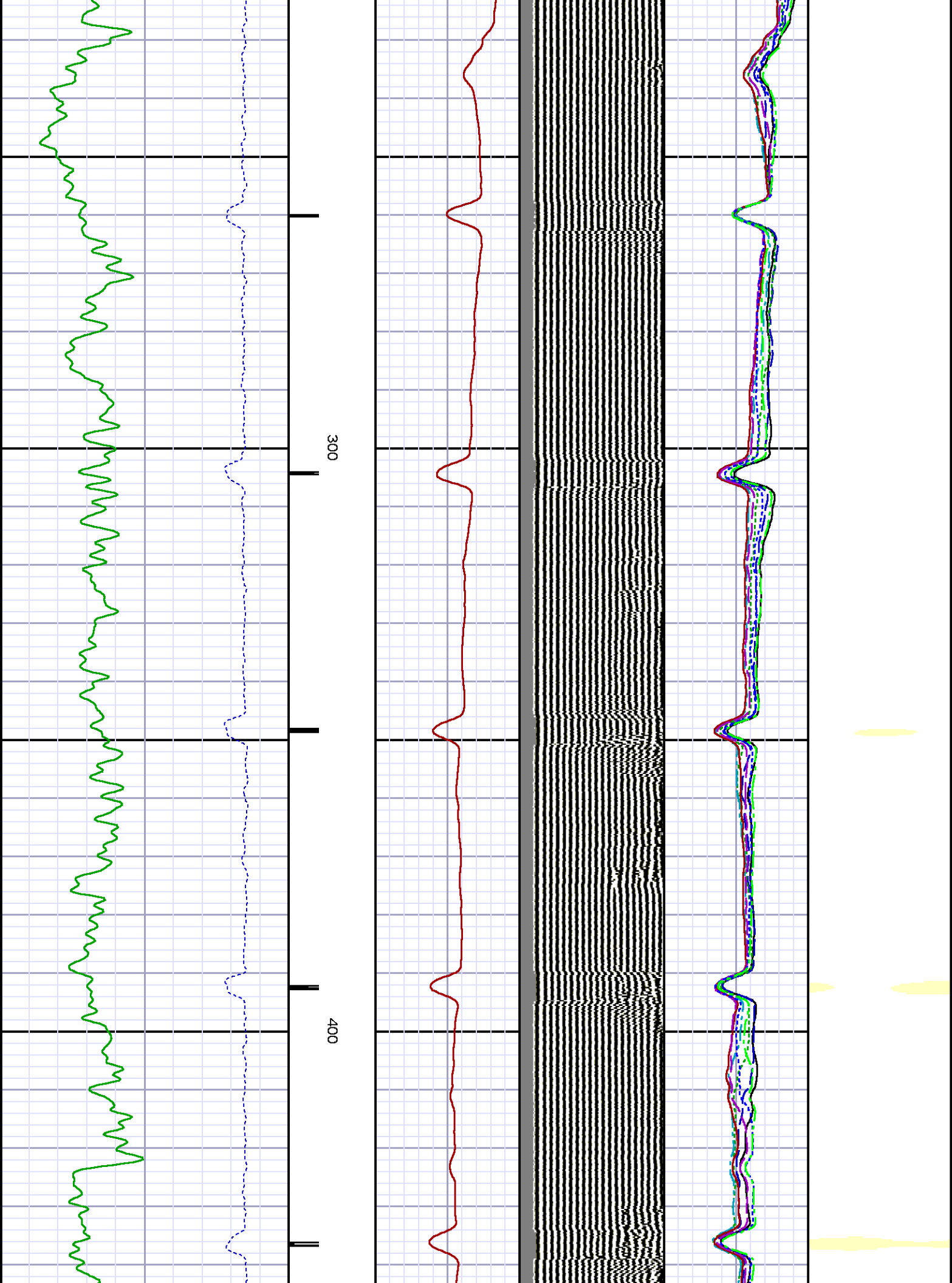
RAL	Amp Gate Width Far	25.000	usec	17.531	7728.000
RAL	Amp Gate Width Near	25.000	usec	17.531	7728.000
RAL	Amp Gate Width Radial	25.000	usec	17.531	7728.000
RAL	casing od	4.500	inches	17.531	7728.000
RAL	casing wt	11.600	lbm/ft	17.531	7728.000
RAL	FB Start Far	291.900	usec	17.531	7728.000
RAL	FB Start Near	180.000	usec	17.531	7728.000
RAL	FB Start Radial	180.000	usec	17.531	7728.000
RAL	FB Thresh Far	10.000	mv	17.531	7728.000
RAL	FB Thresh Near	4.000	mv	17.531	7728.000
RAL	FB Thresh Radial	4.000	mv	17.531	7728.000
RAL	Fluid Travel Time	200.000	usec/ft	17.531	7727.656

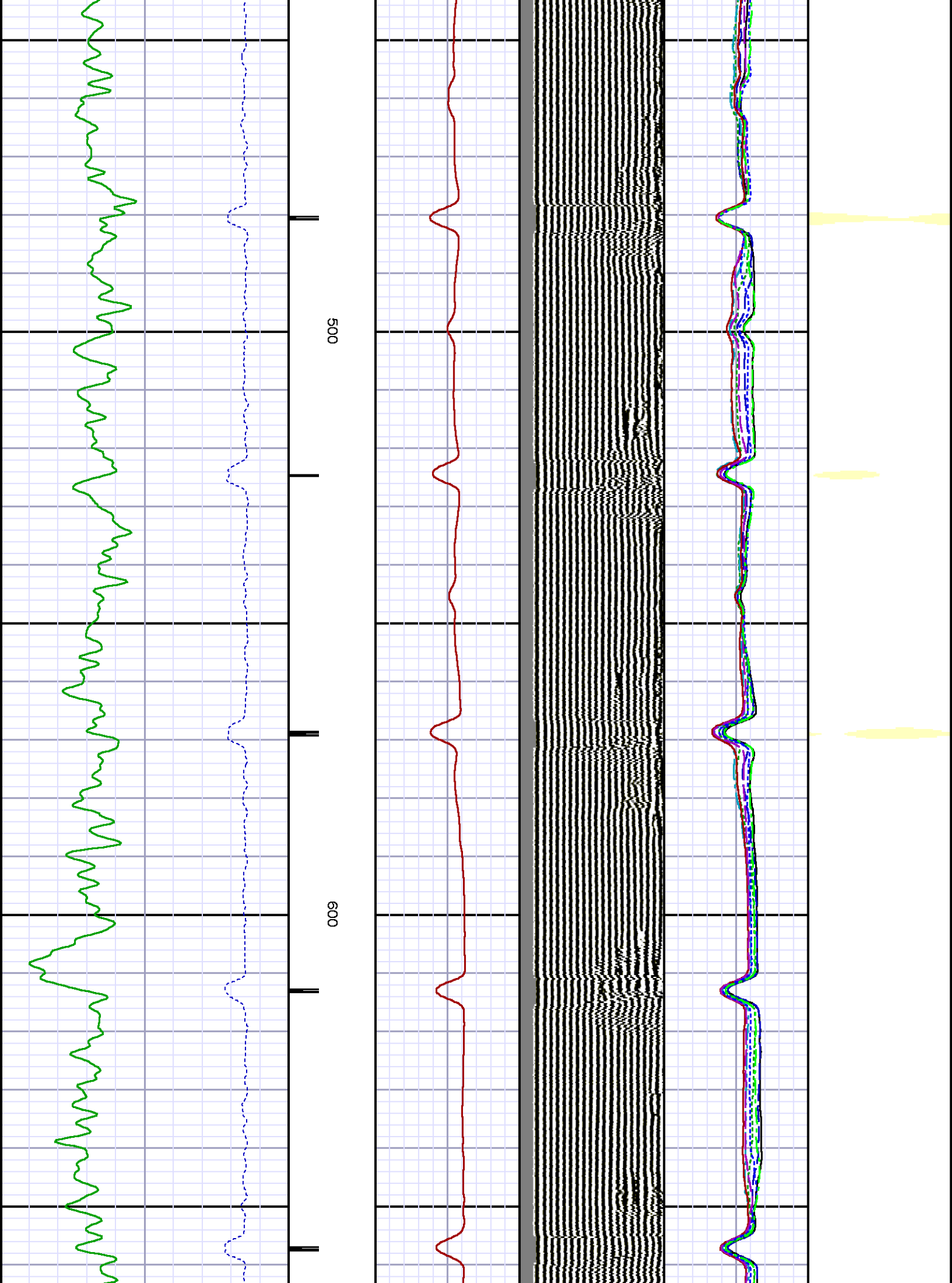
DEPTH OFFSETS
(for Acquired Curves)

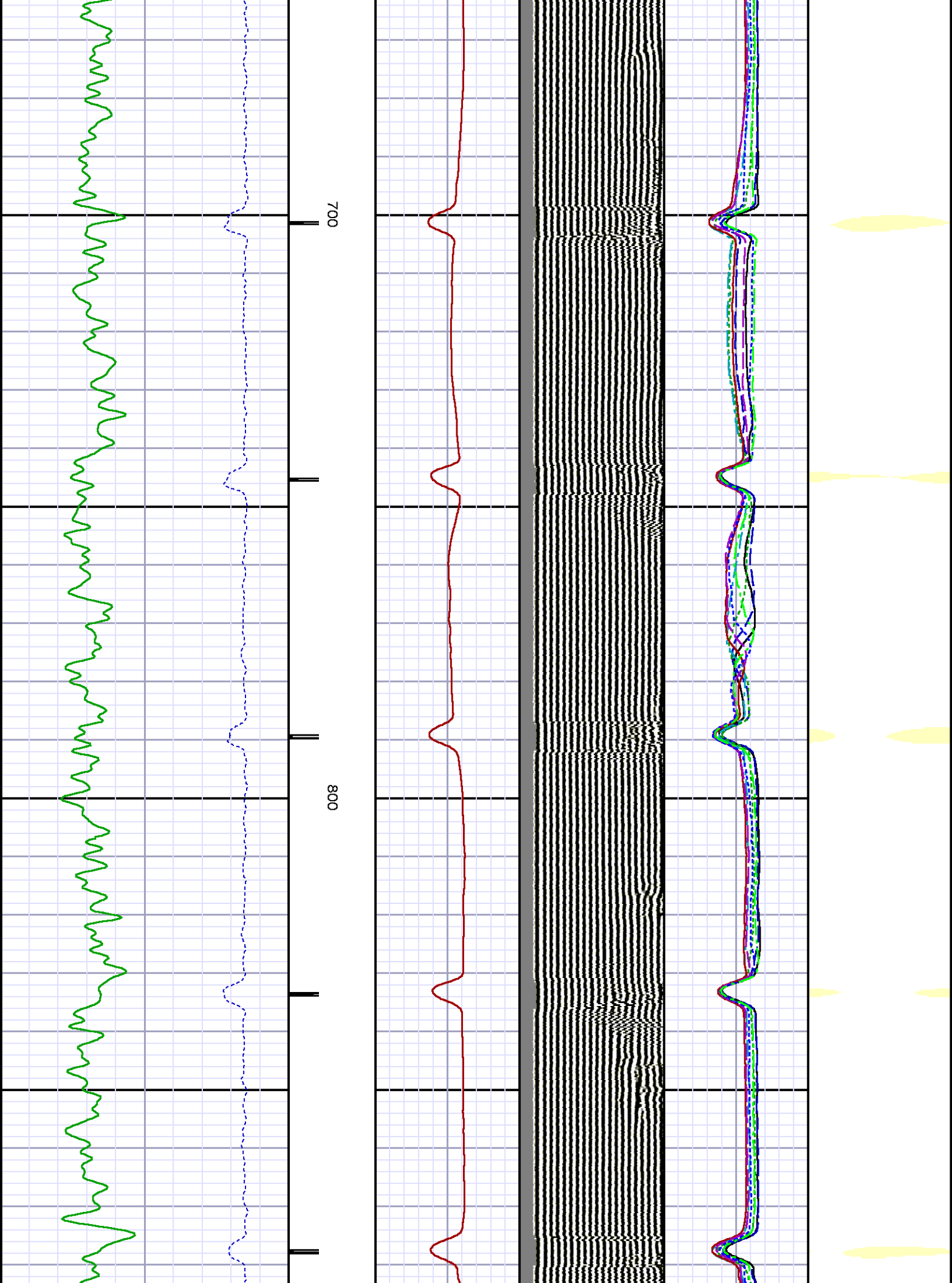
SERIES	DEPTH OFFSET	ACQUIRED CURVES
1426XA	-11.000	ACAL ANR AR1 AR2 AR3 AR4 AR5 AR6 AR7 AR8 CHV FPR2 FPR3 FPR5 TT3 TTR1 TTR2 TTR3 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP
1426XA	-10.040	AFAR SIG TT5
1355XA	-5.620	CCL
1355XA	-1.500	GR
1355XA	0.000	TEMP

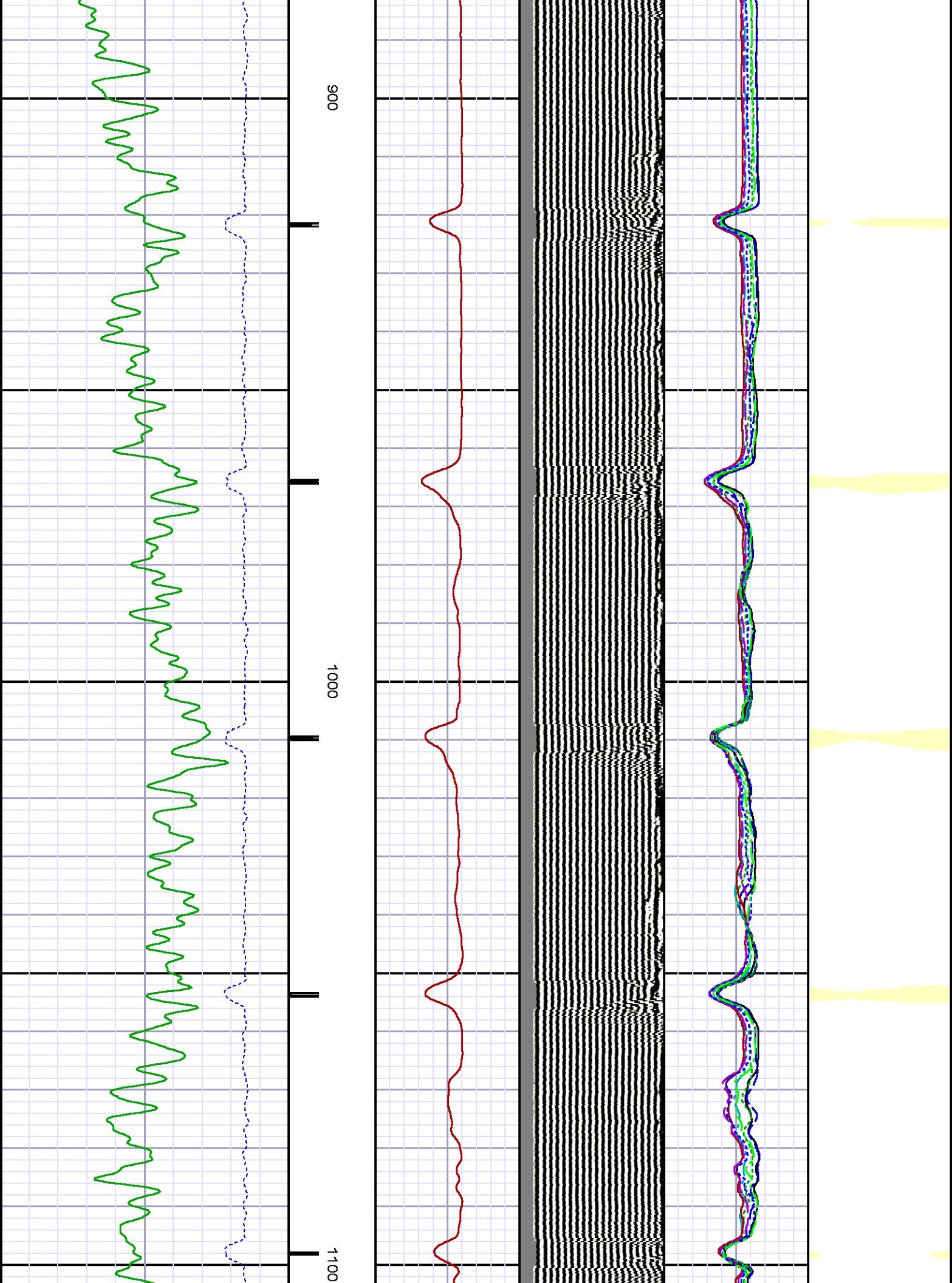


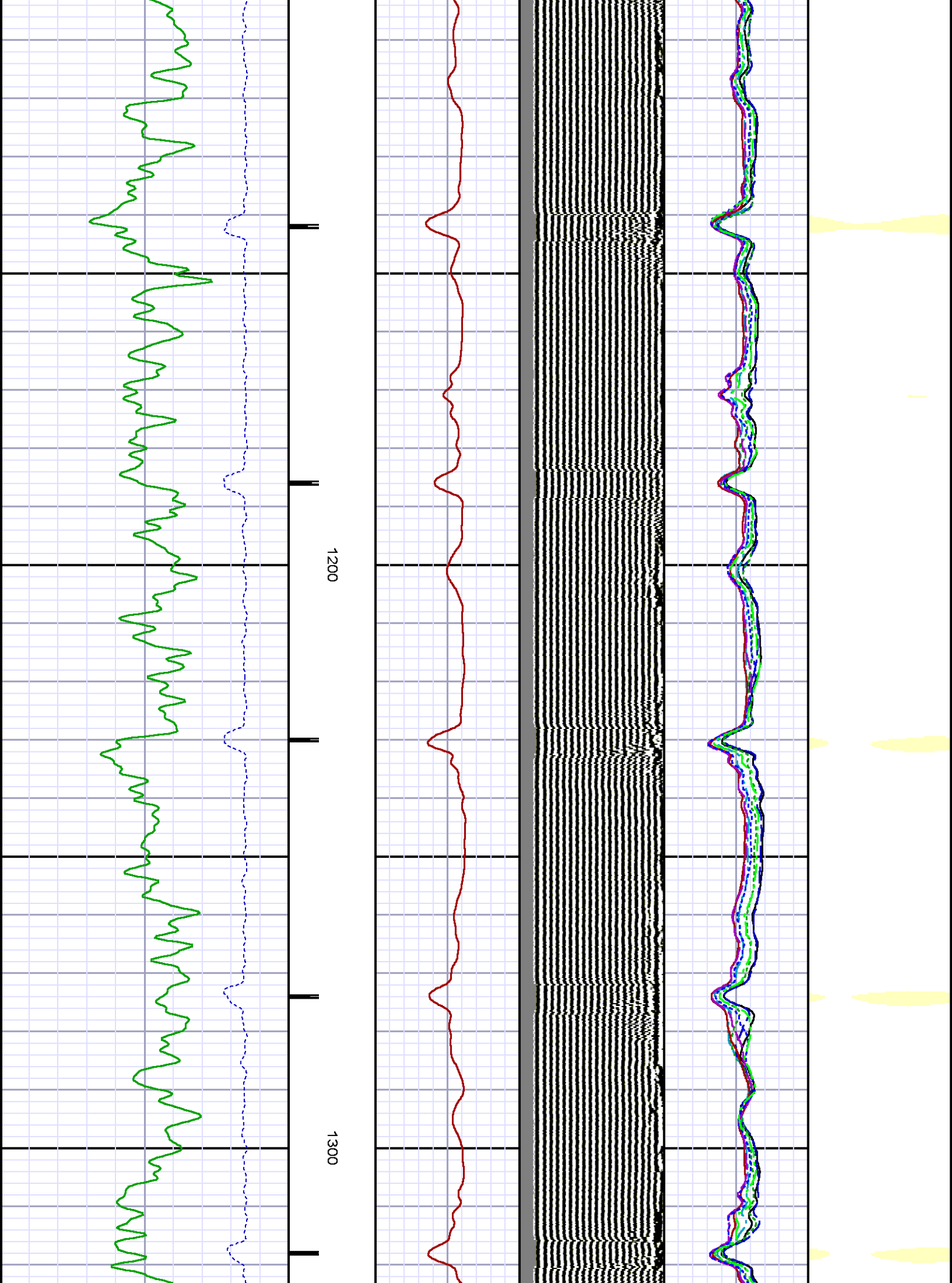


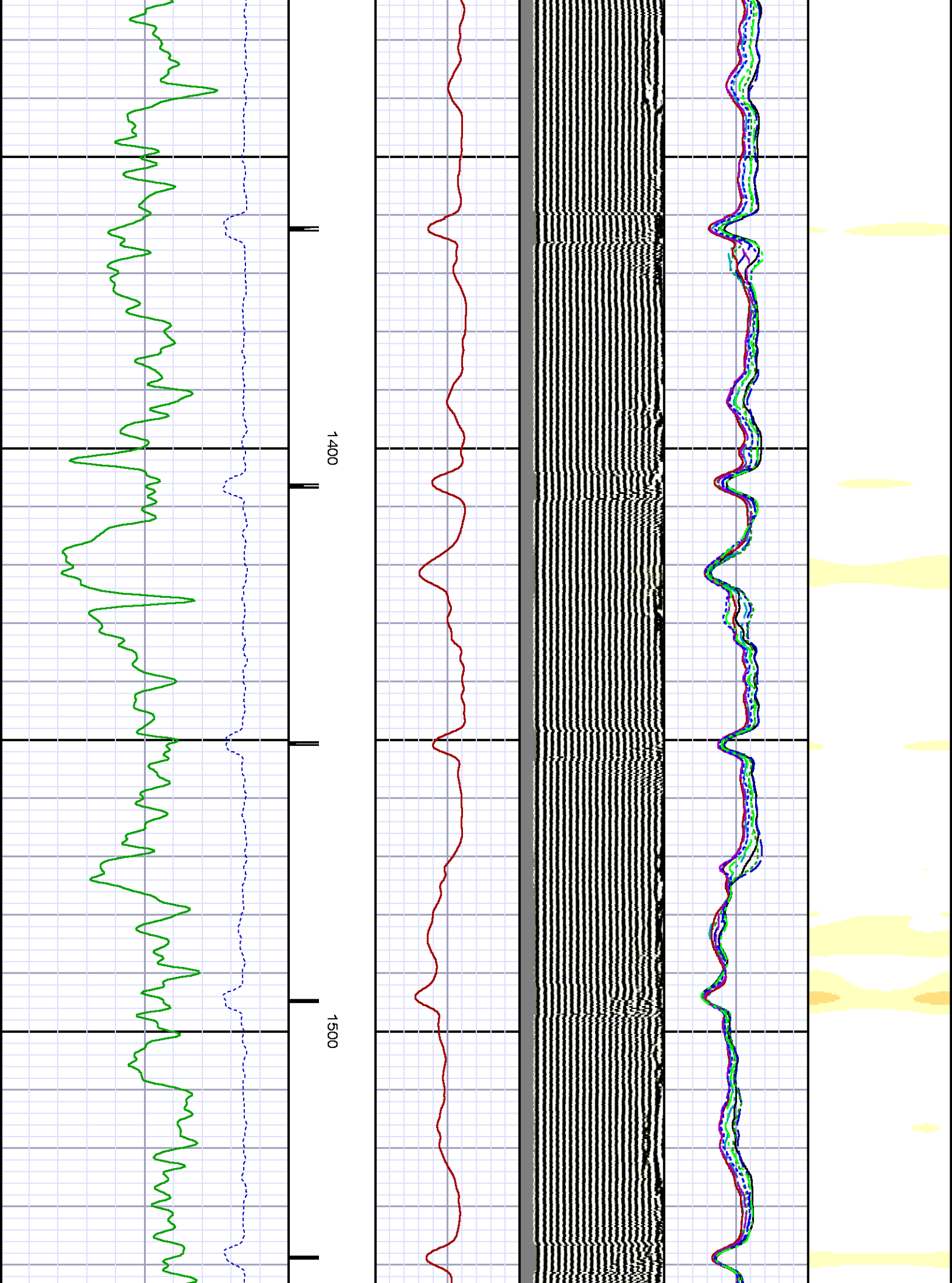


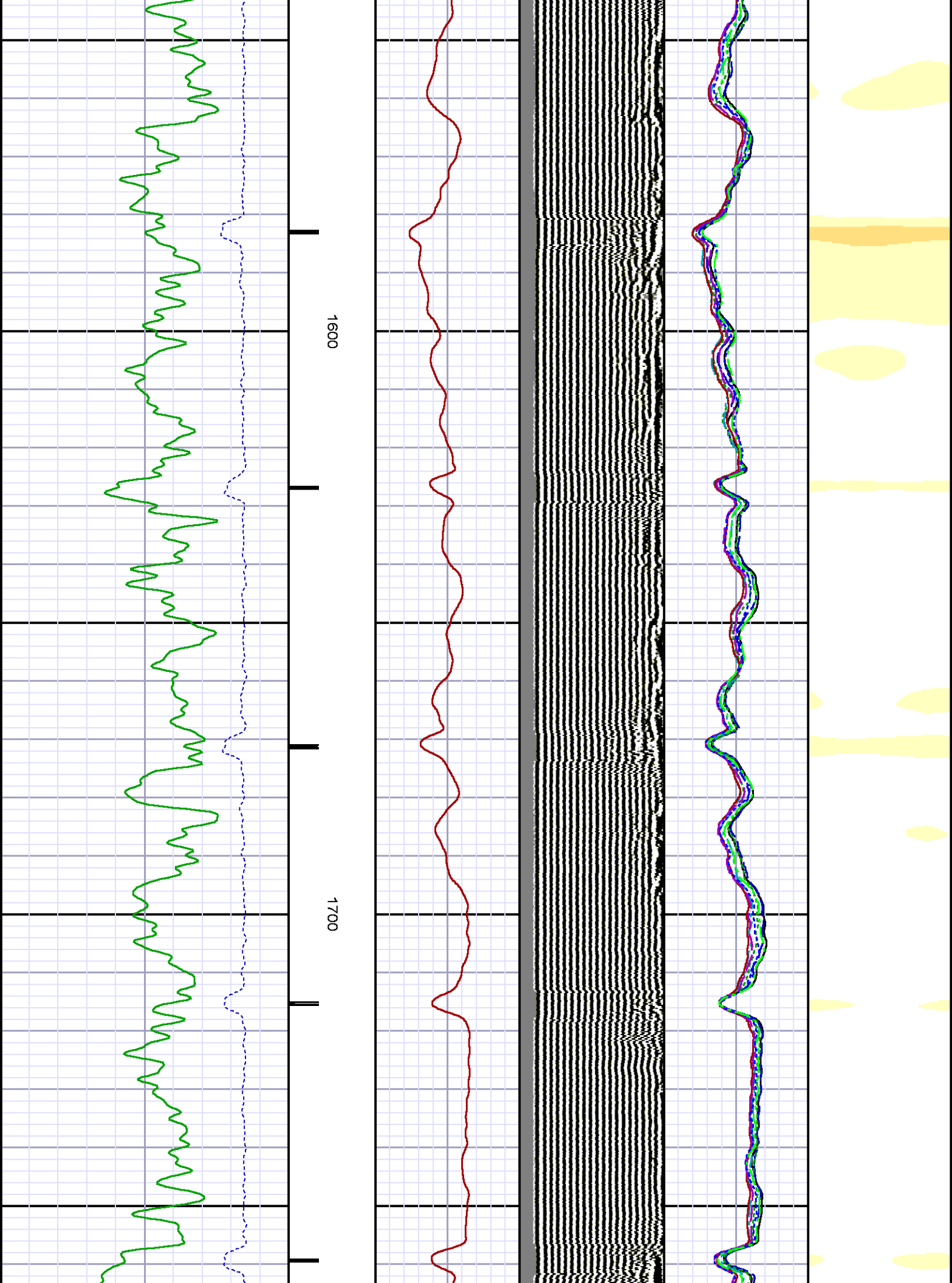


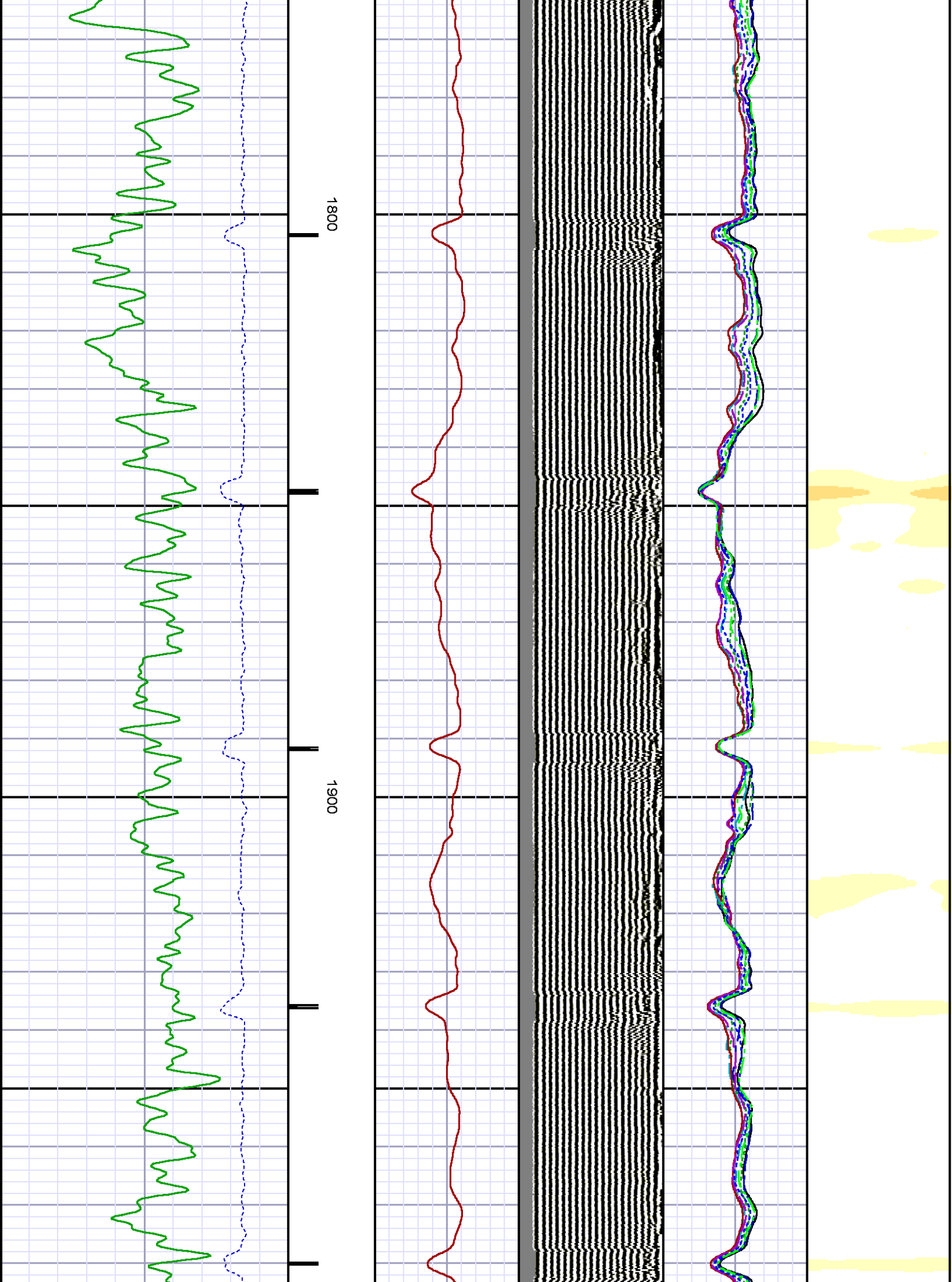


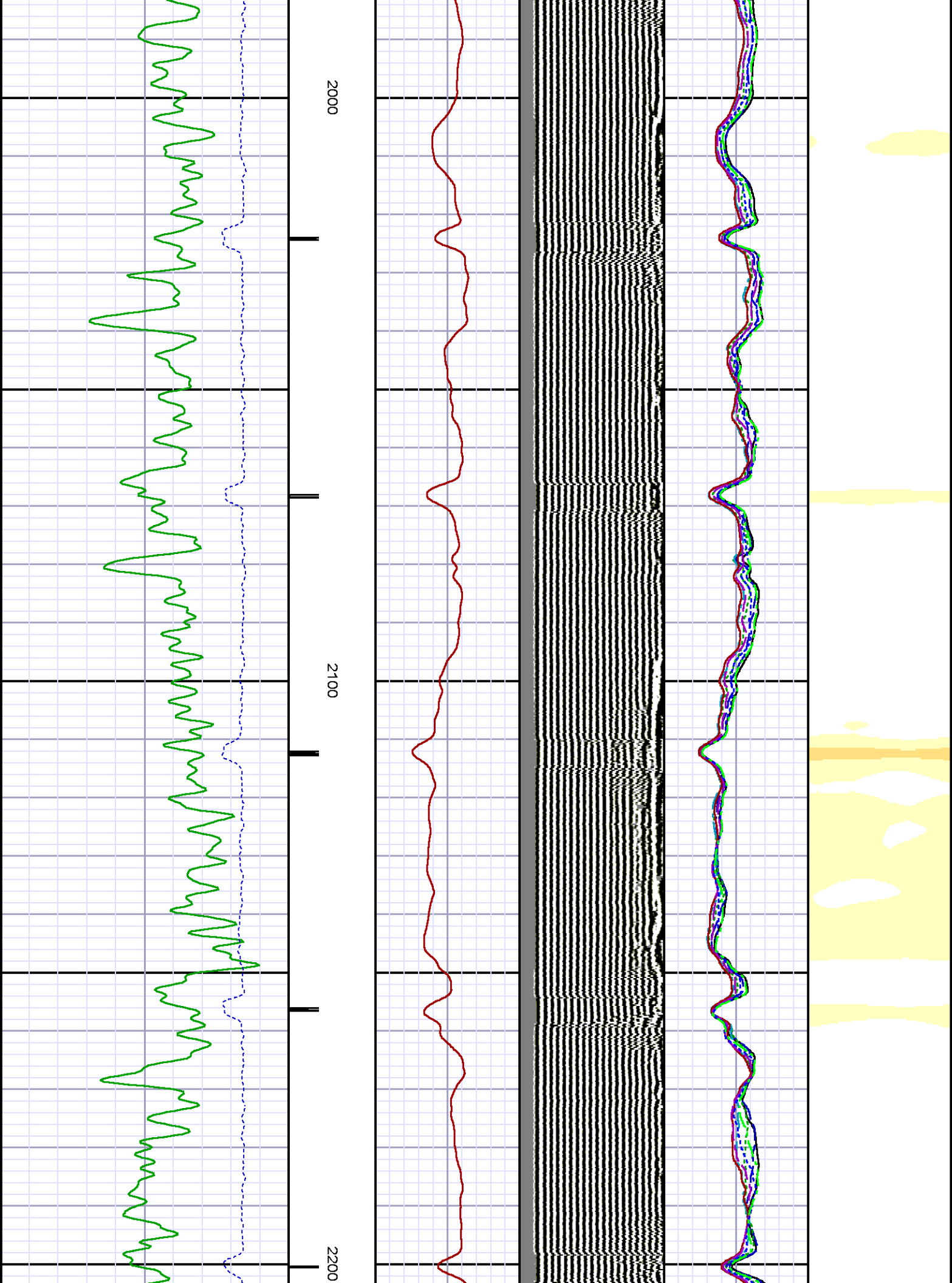


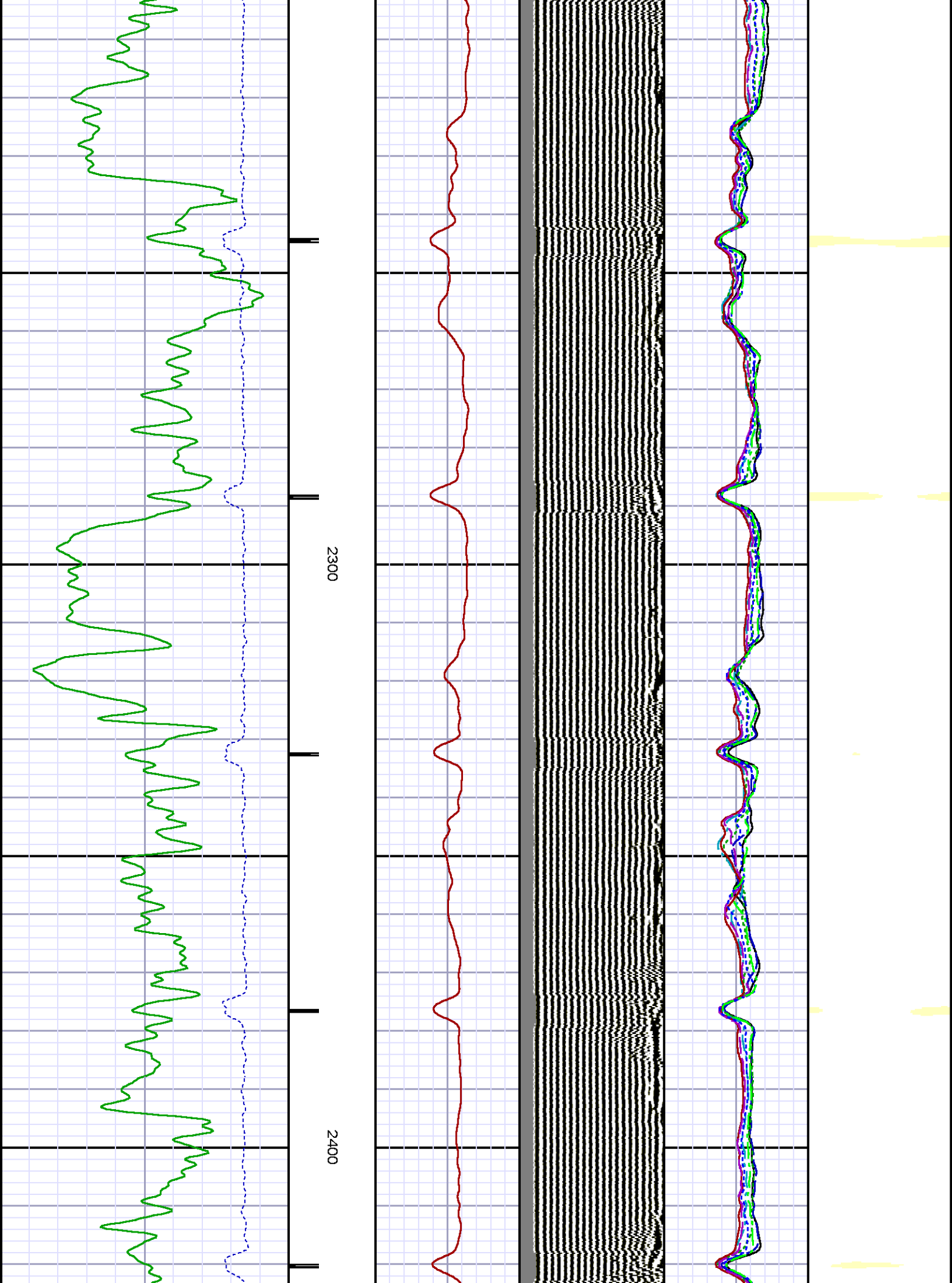


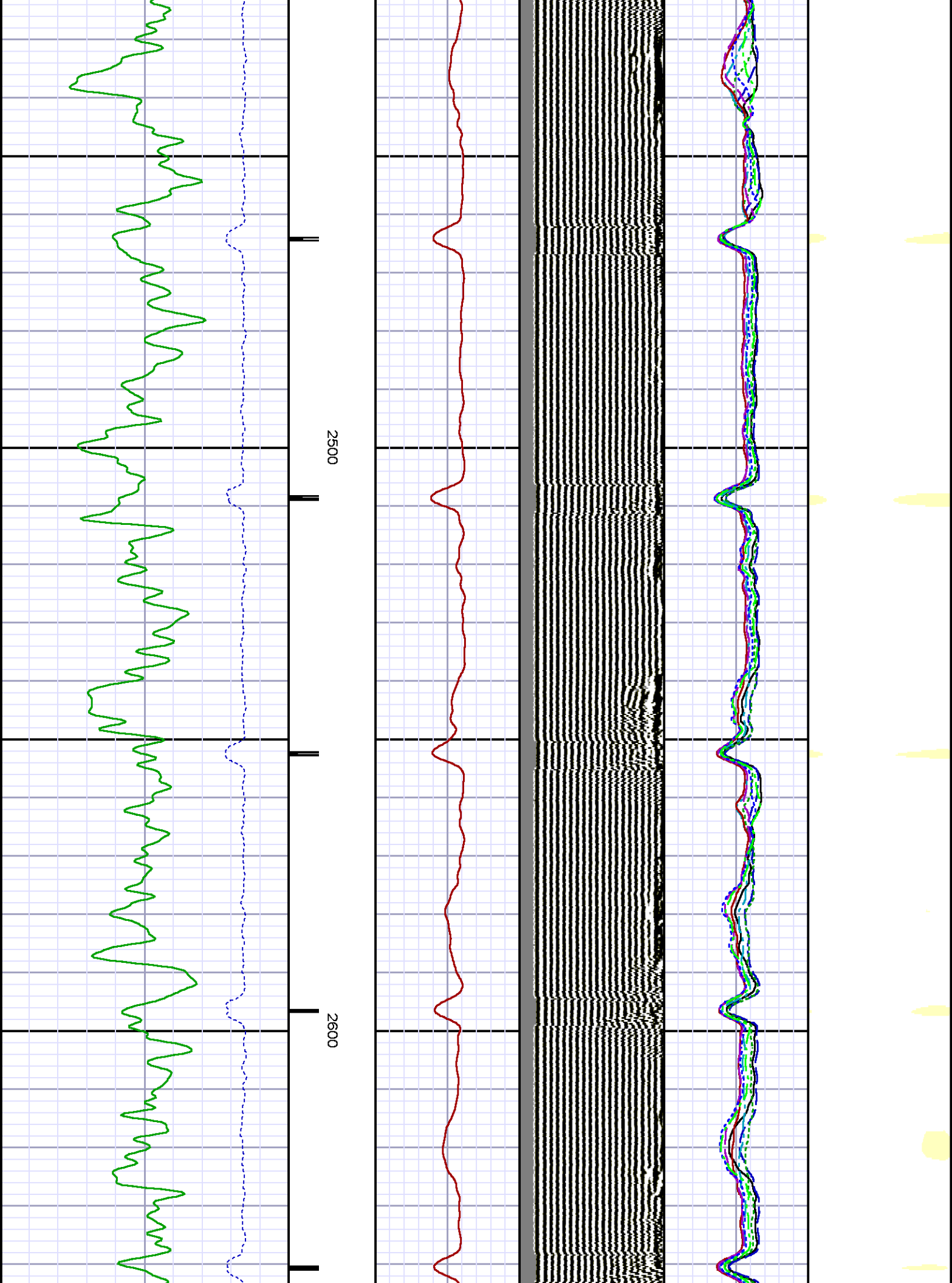


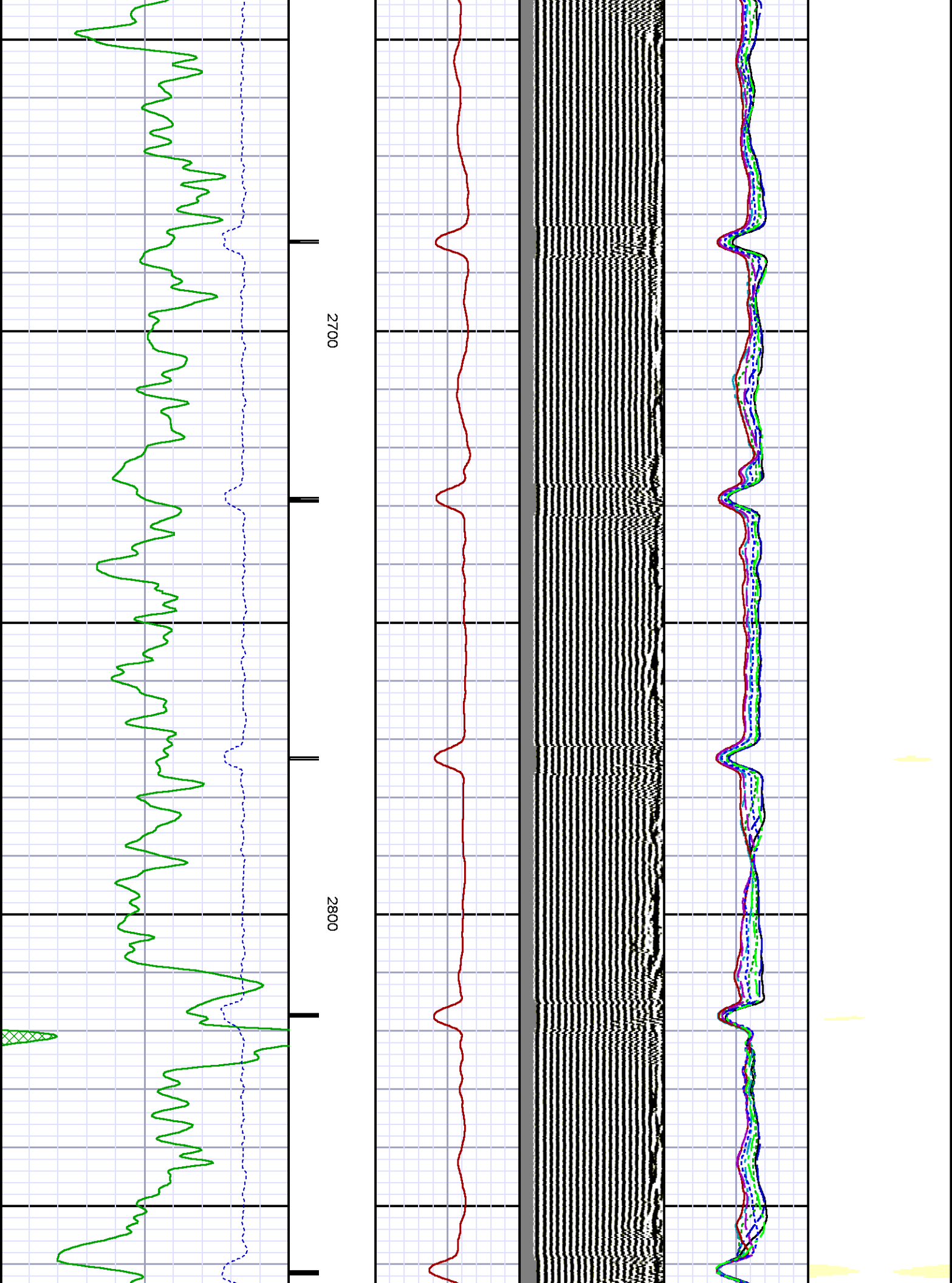


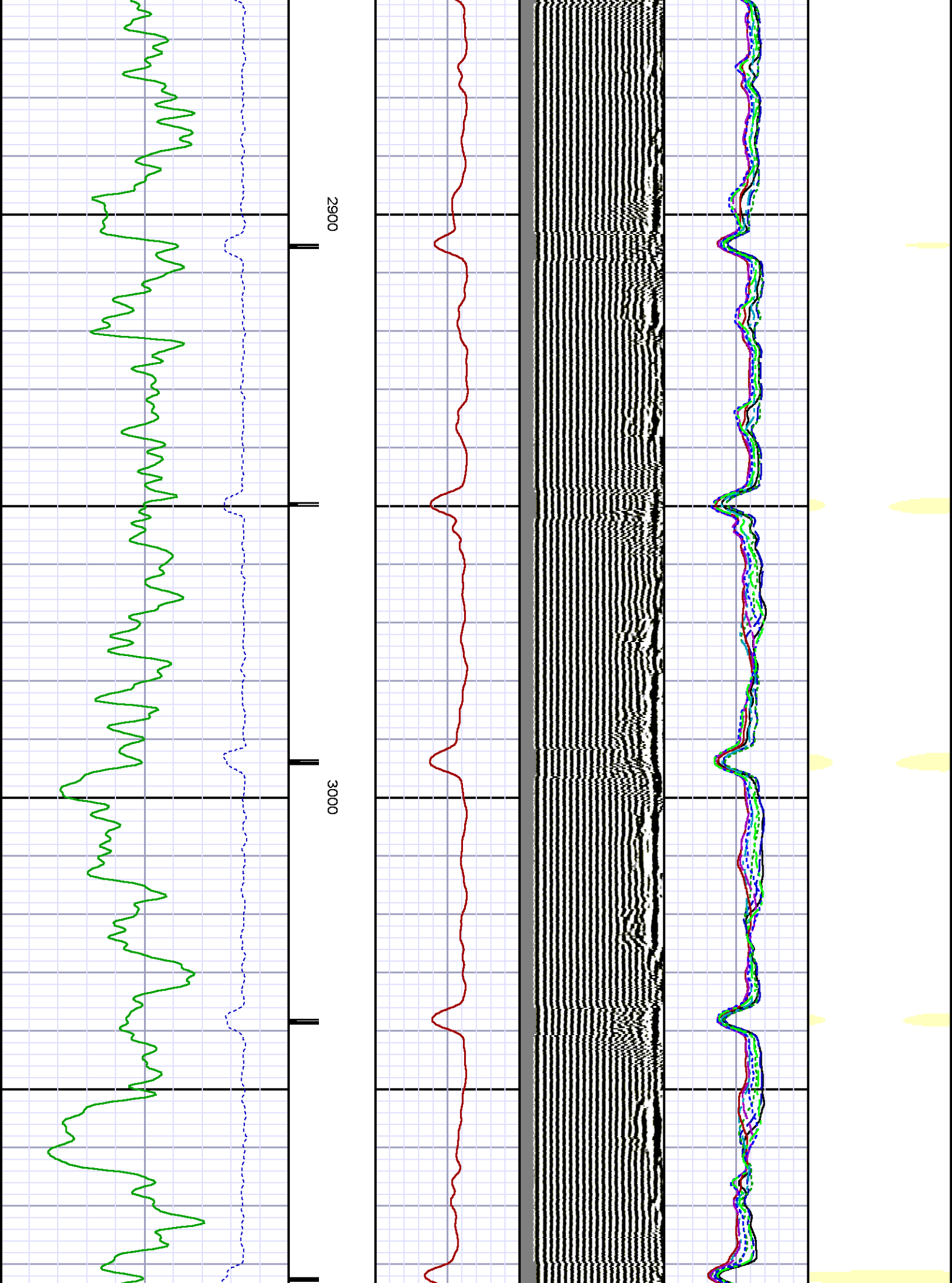


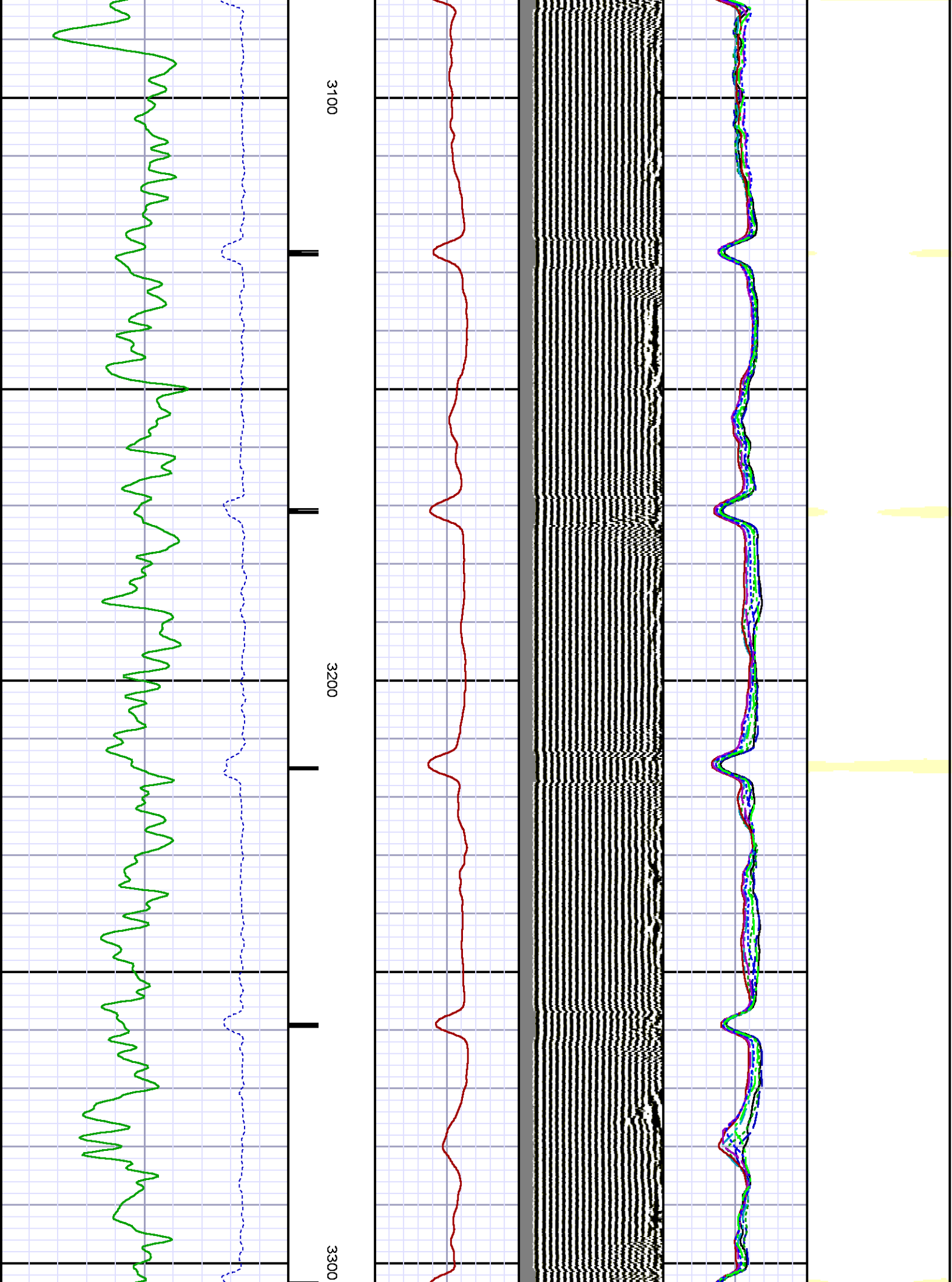


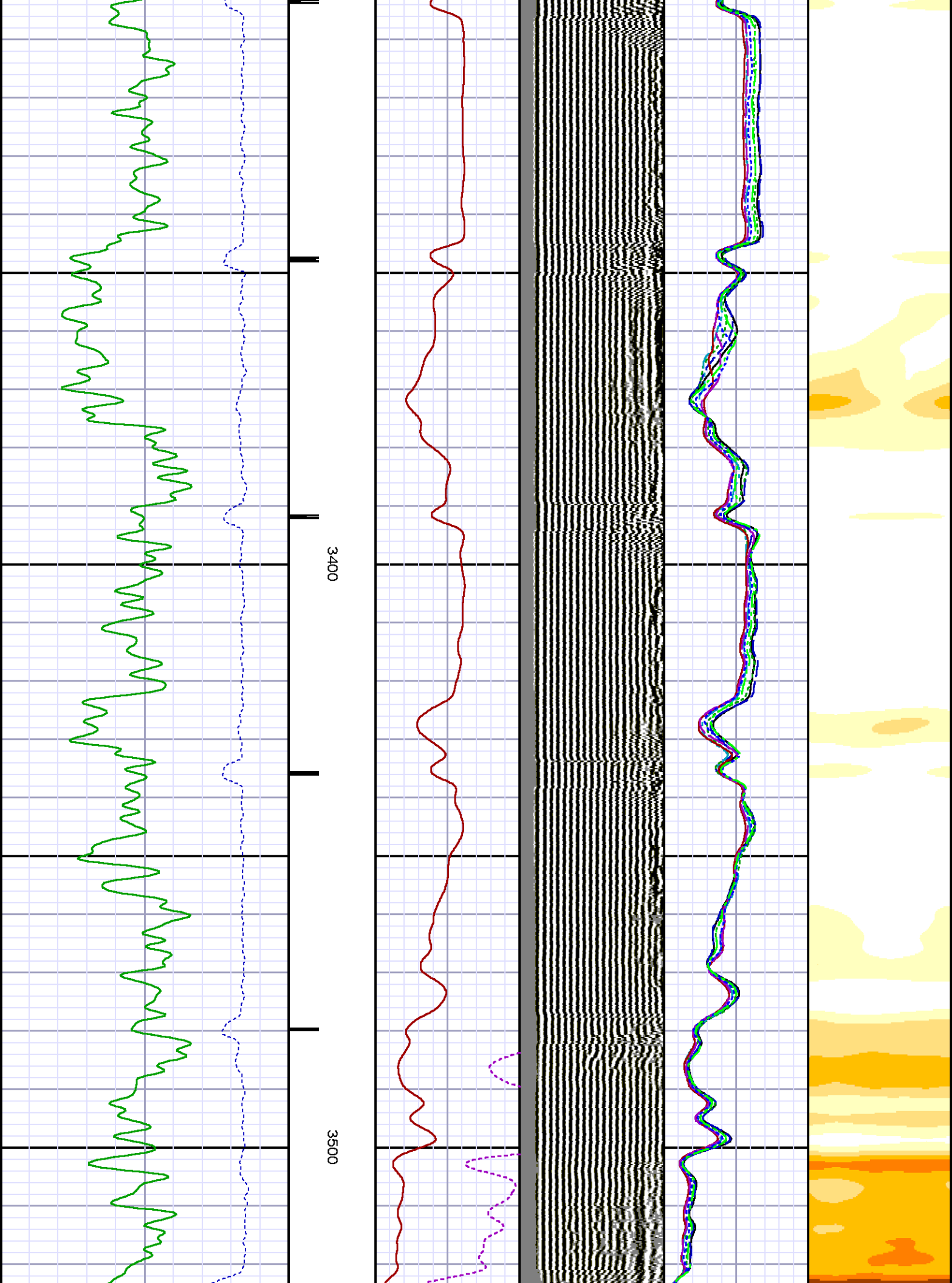


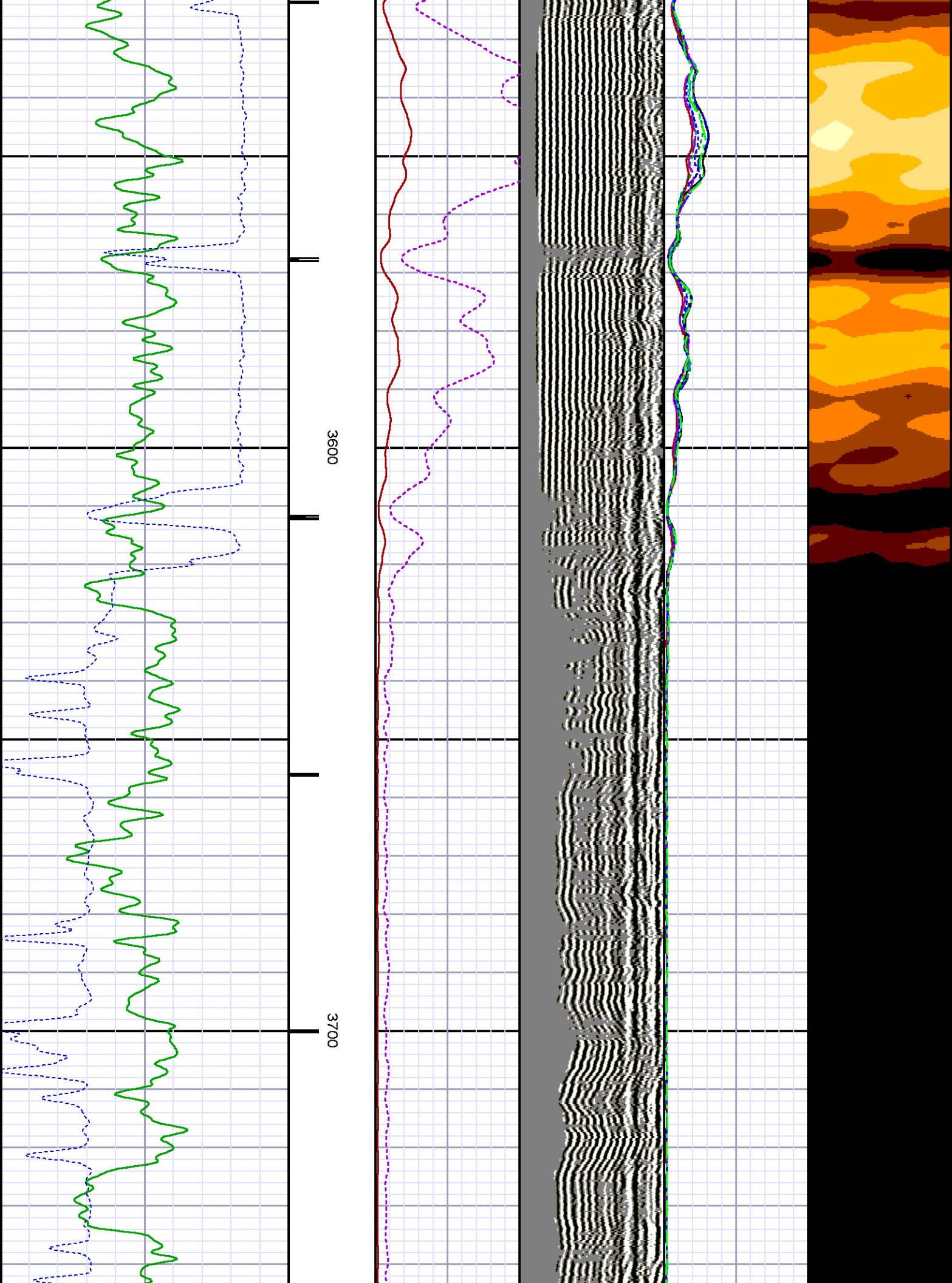


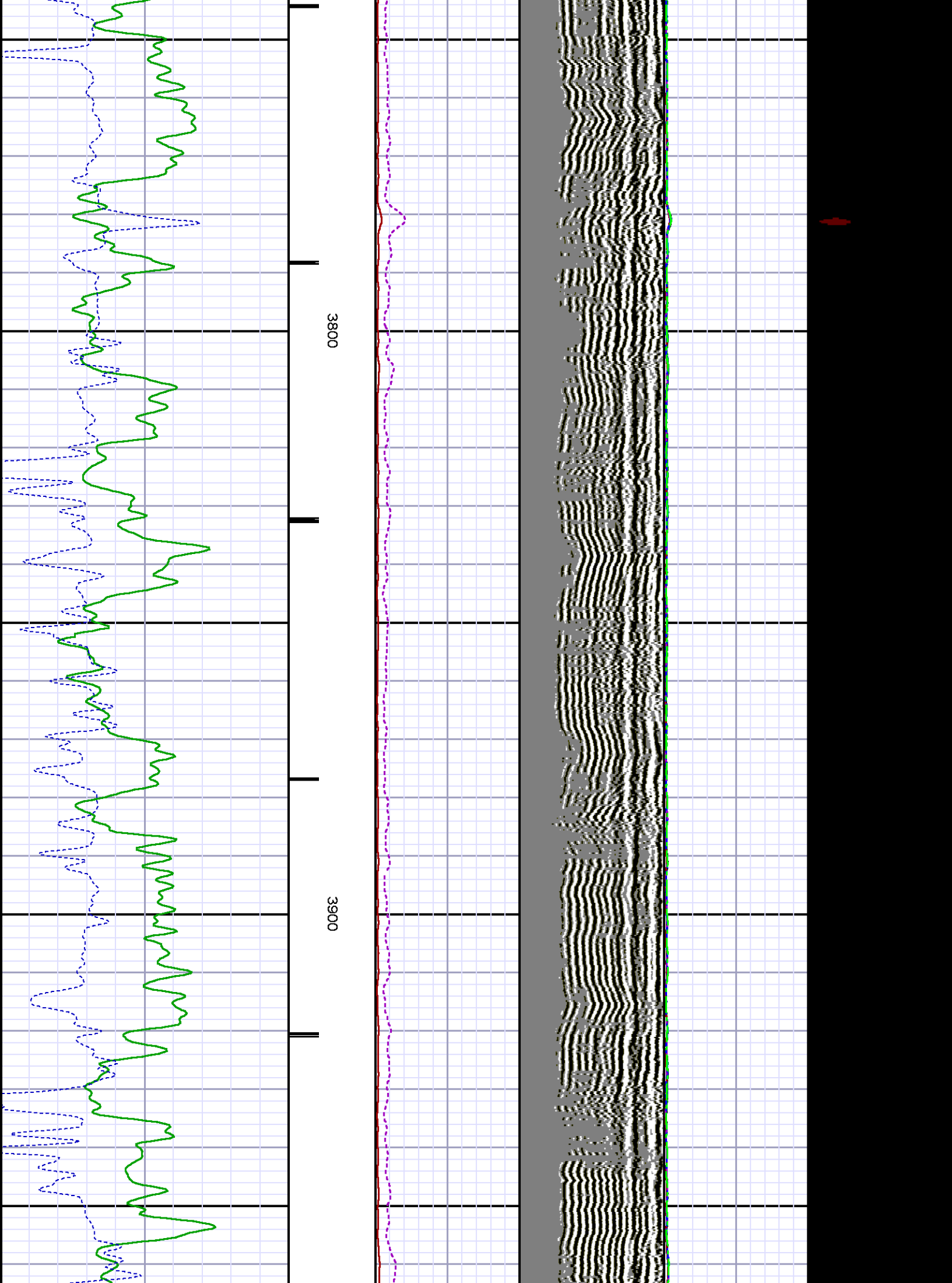


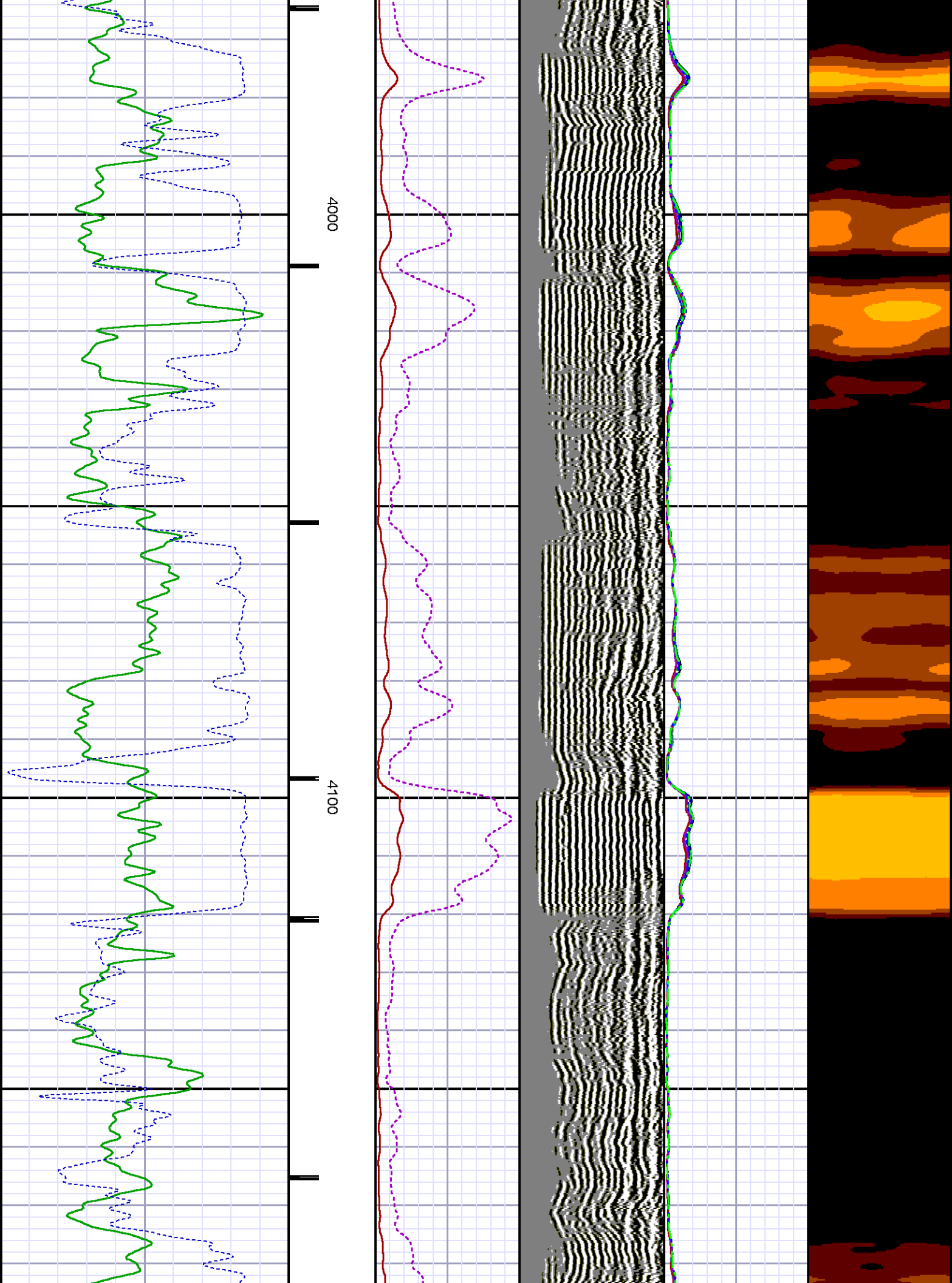


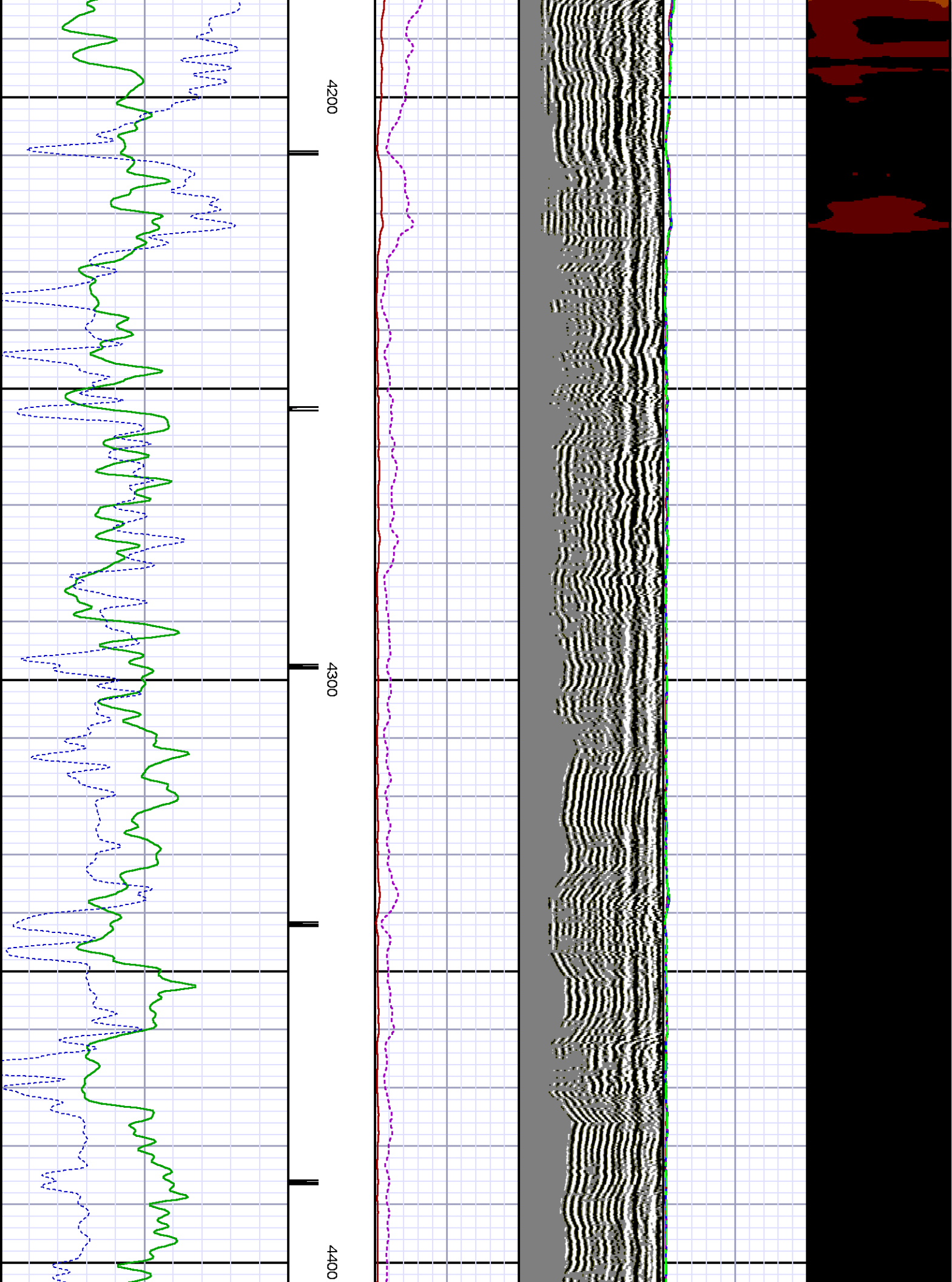


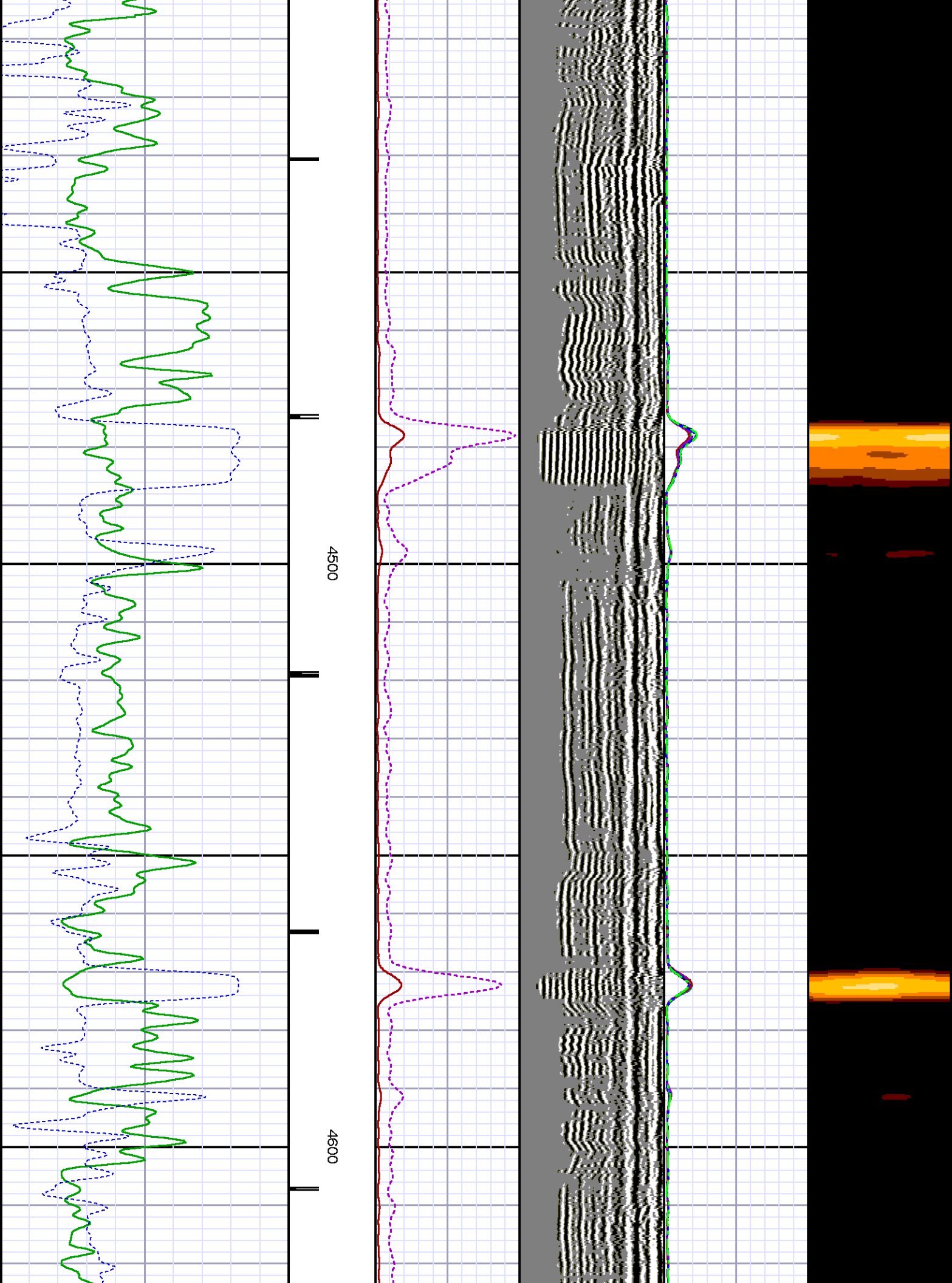


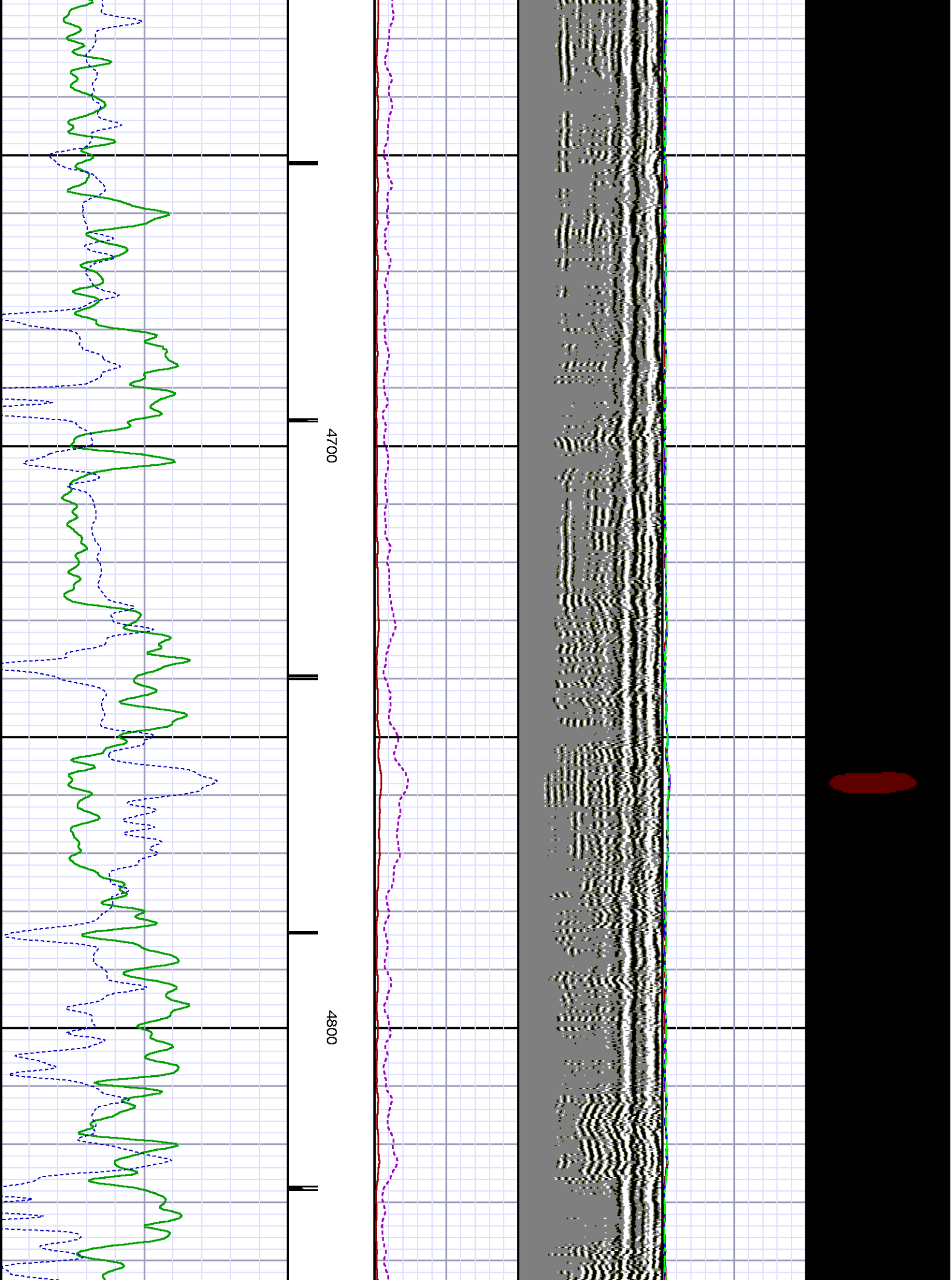


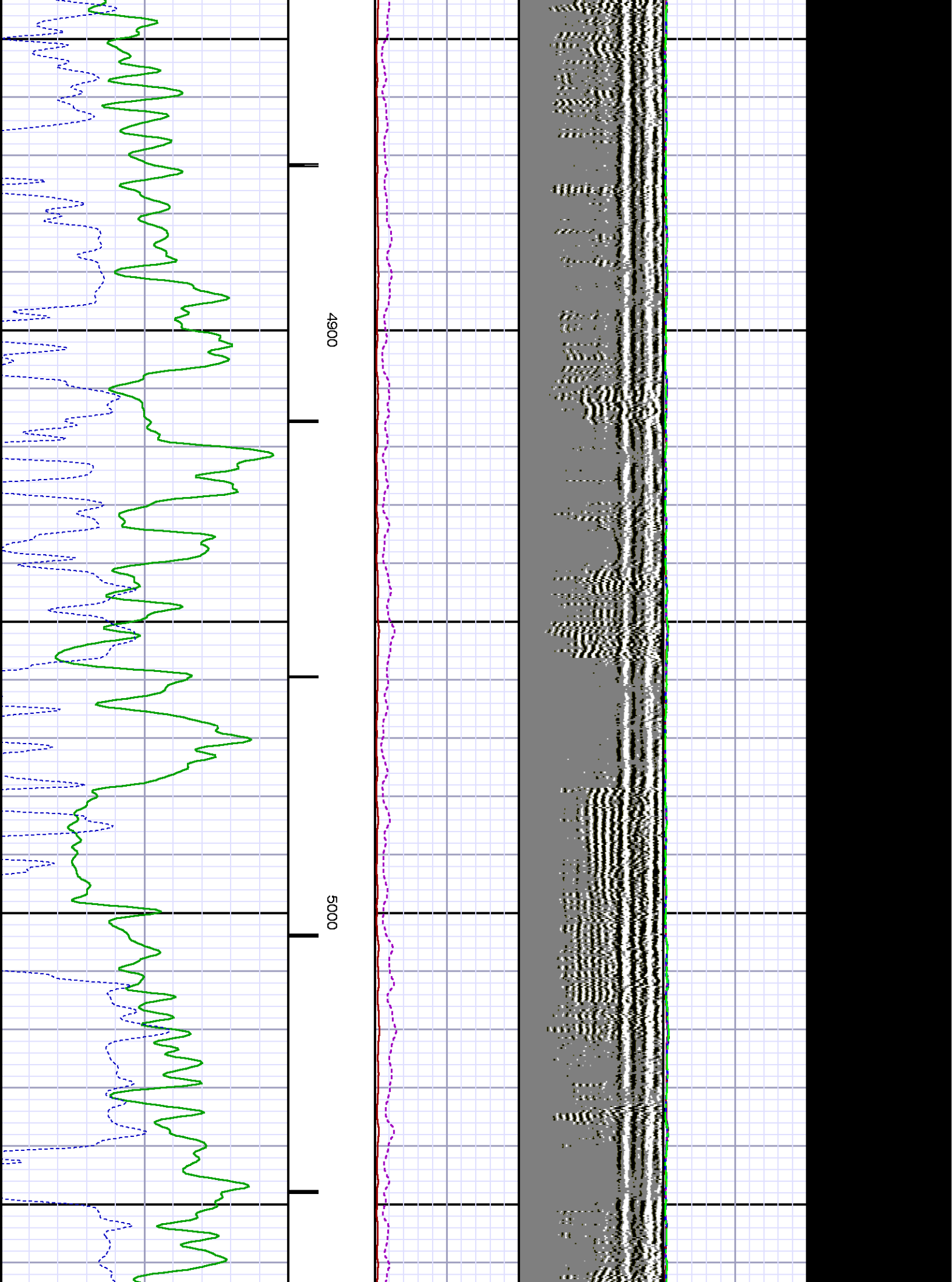


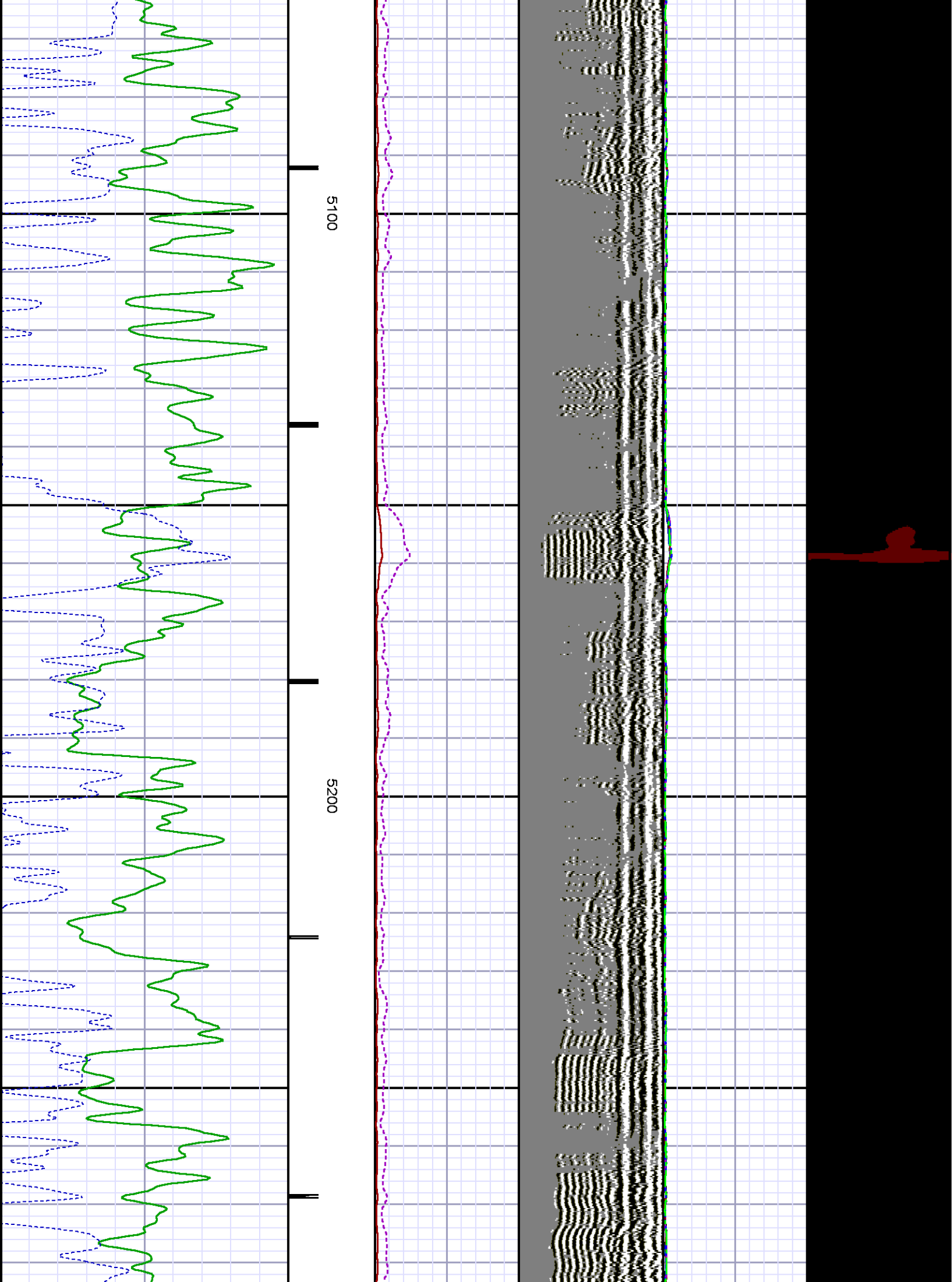


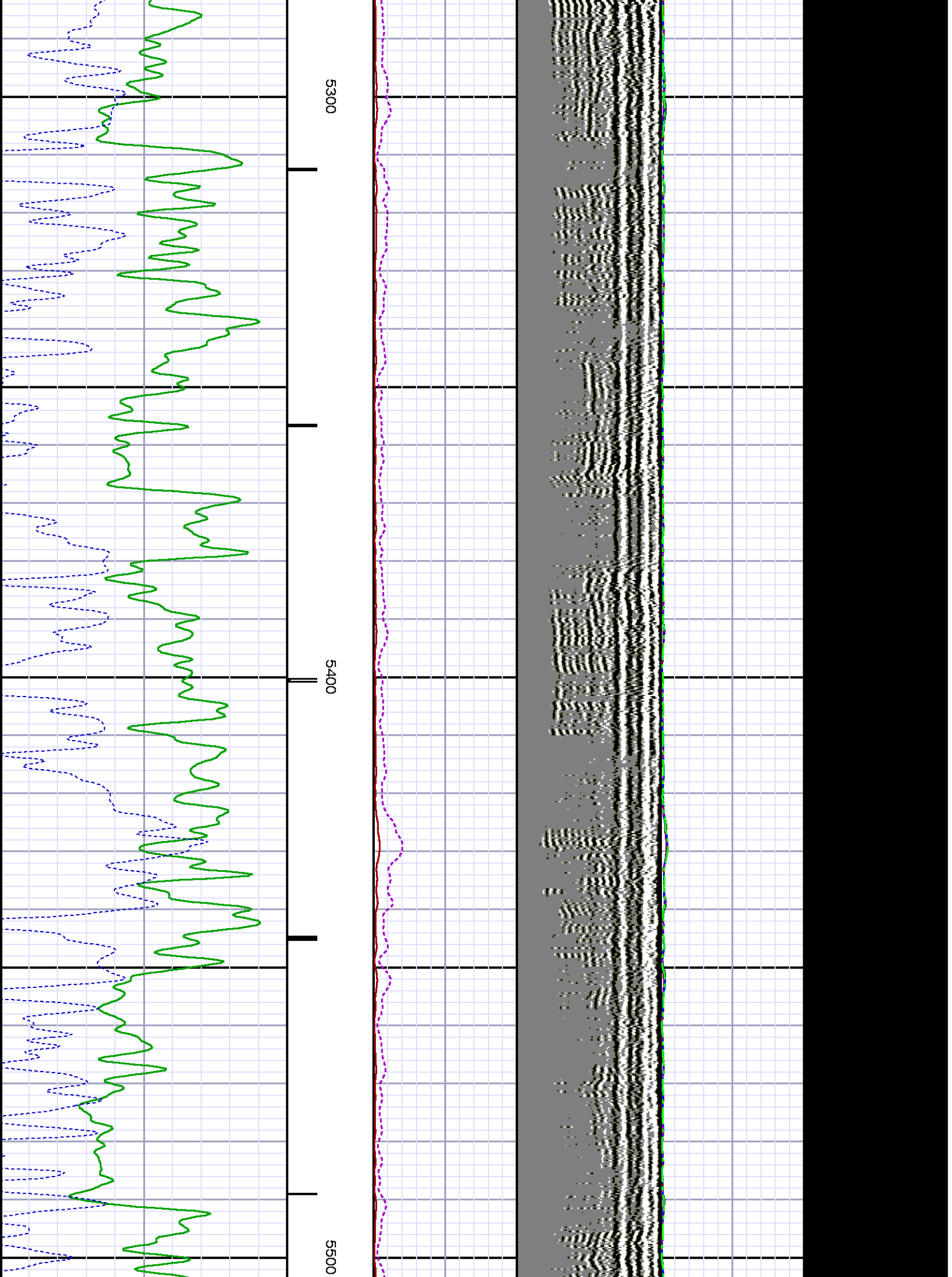


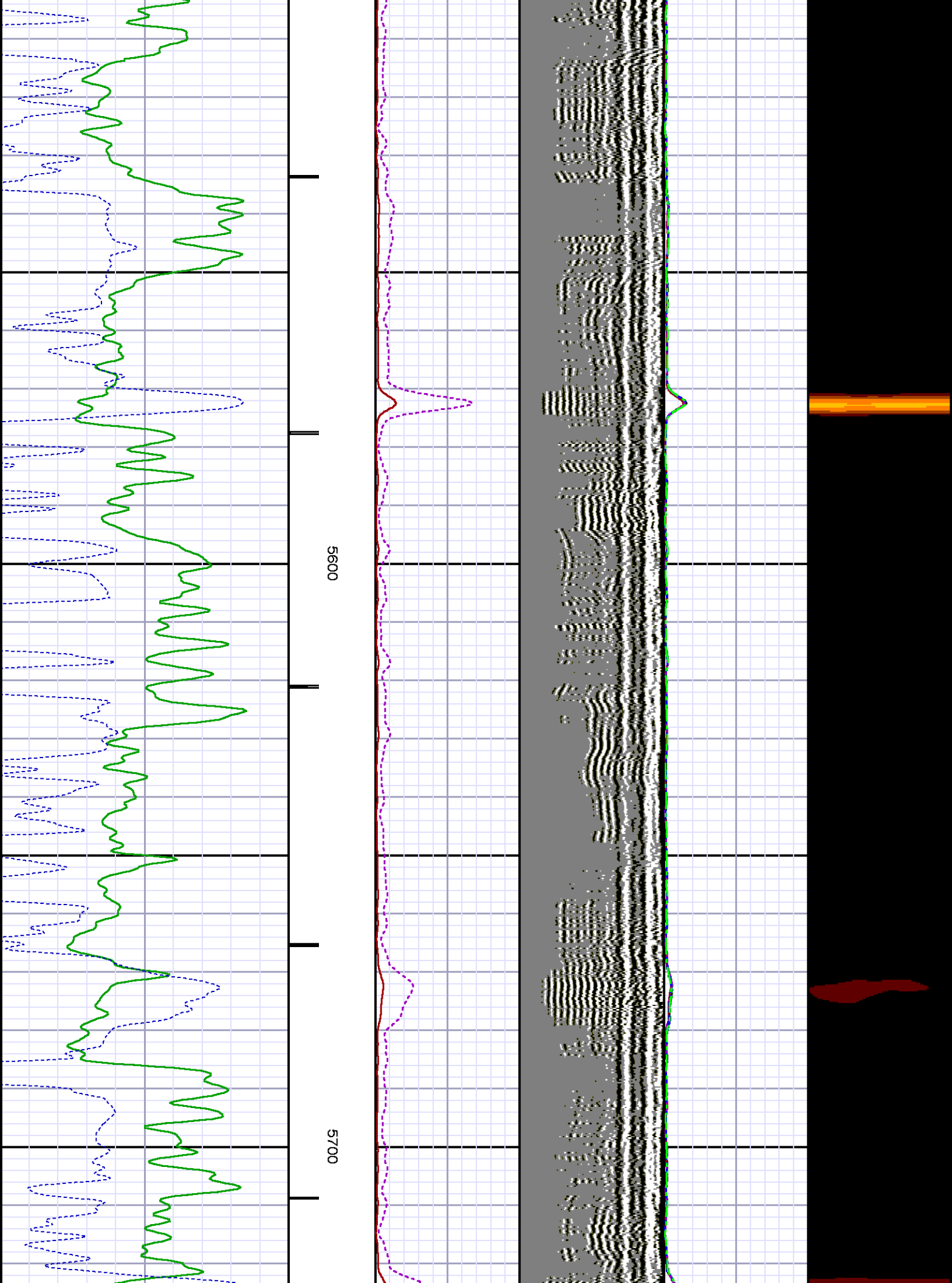


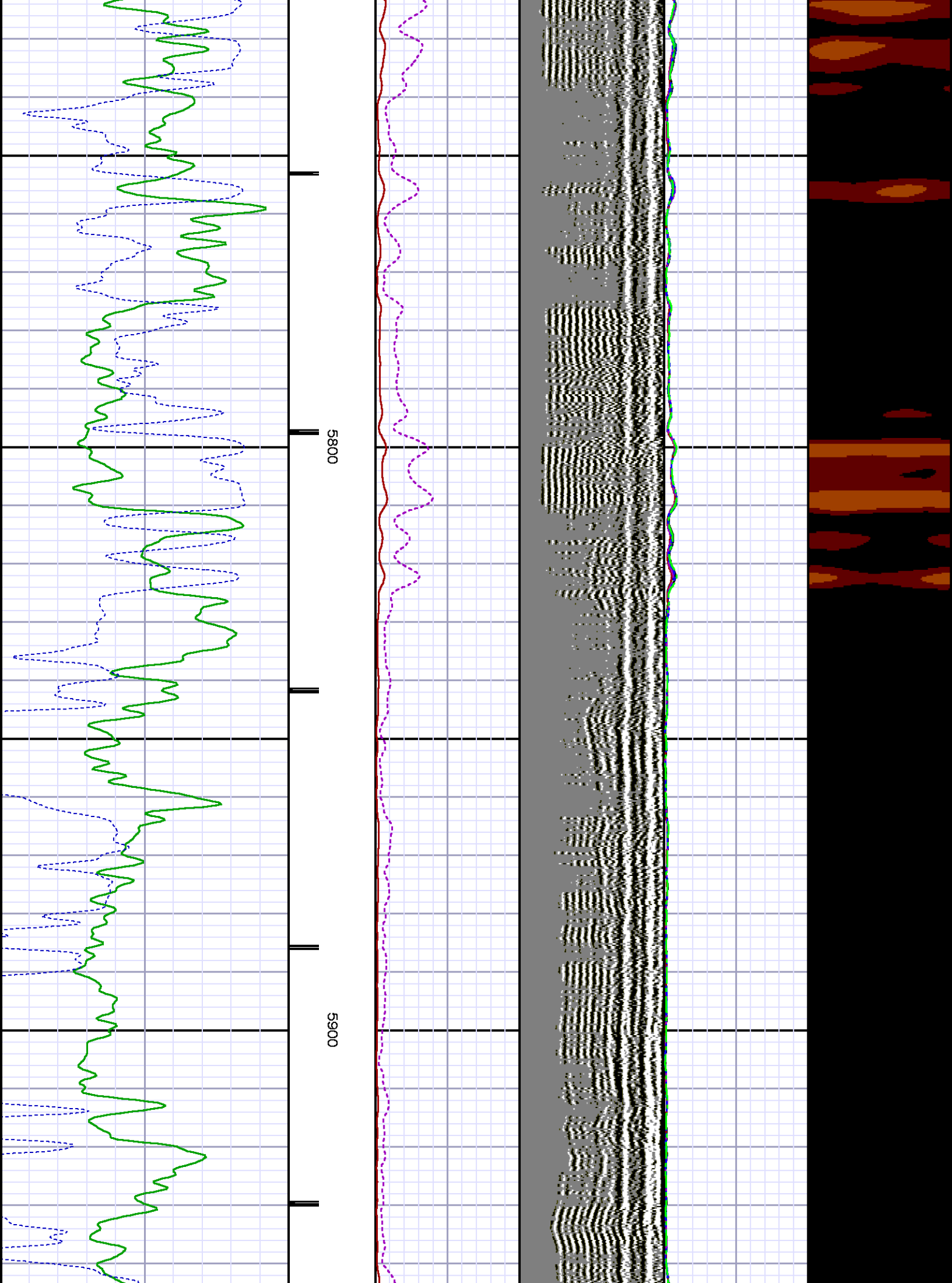


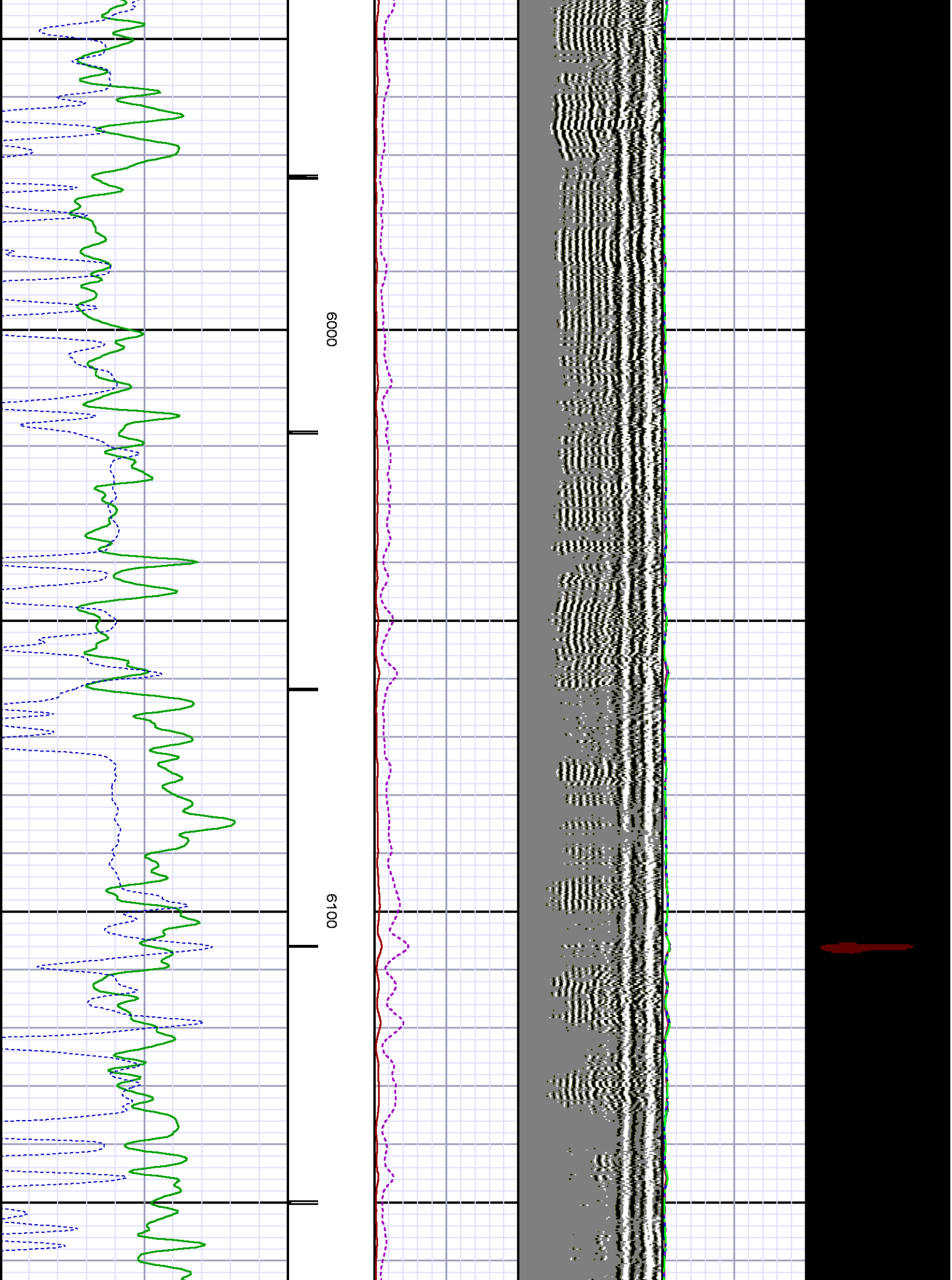


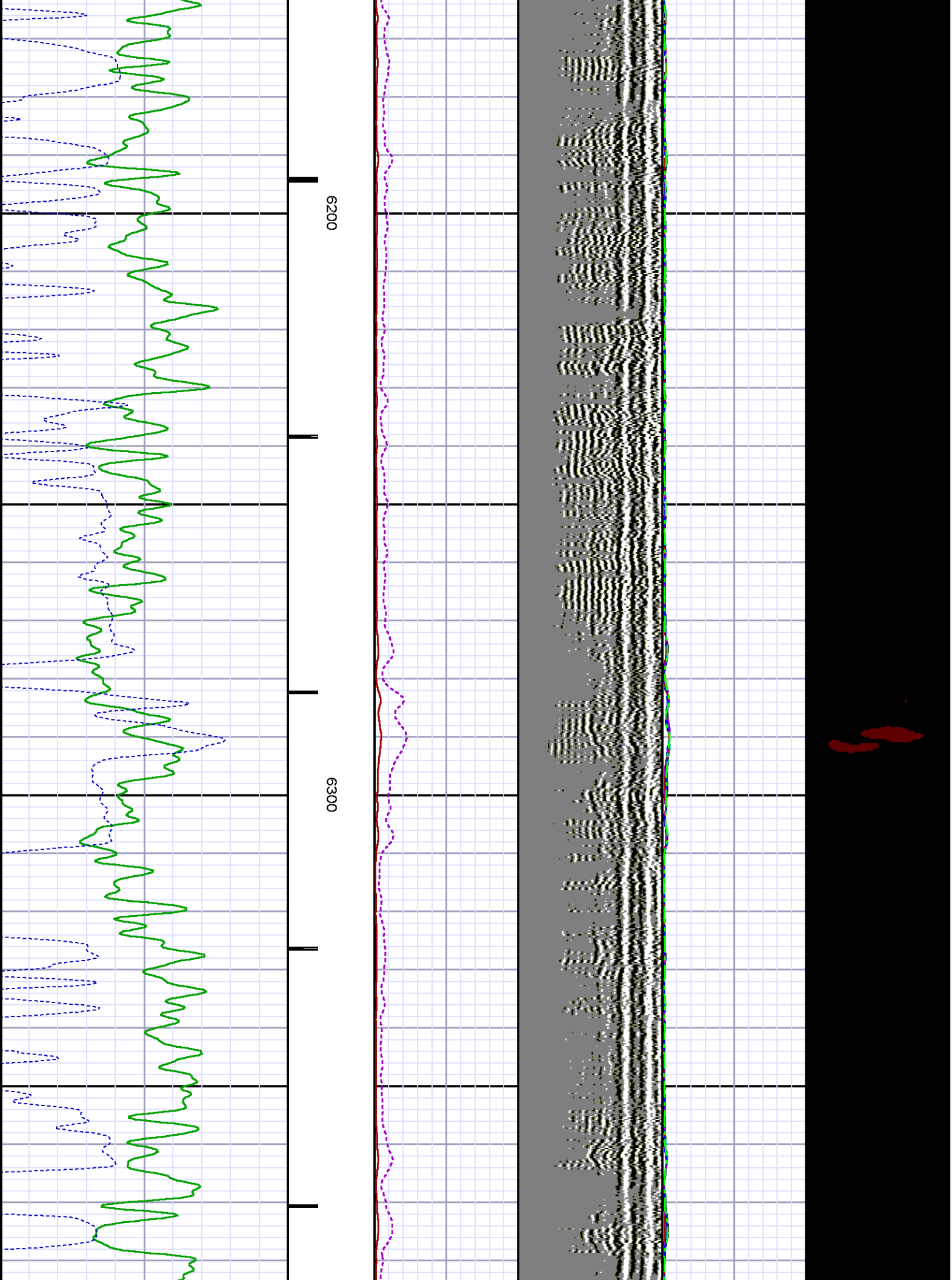


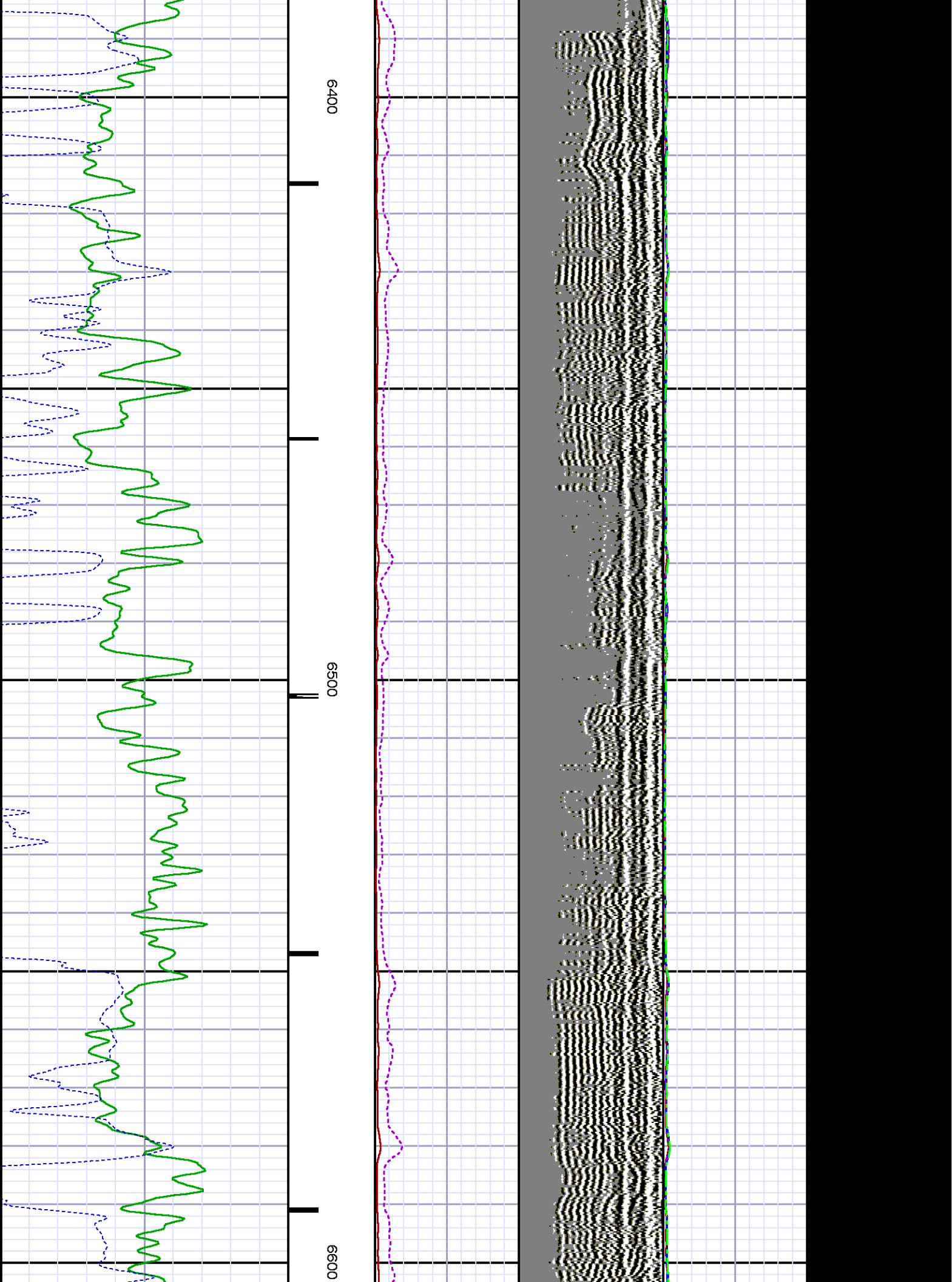


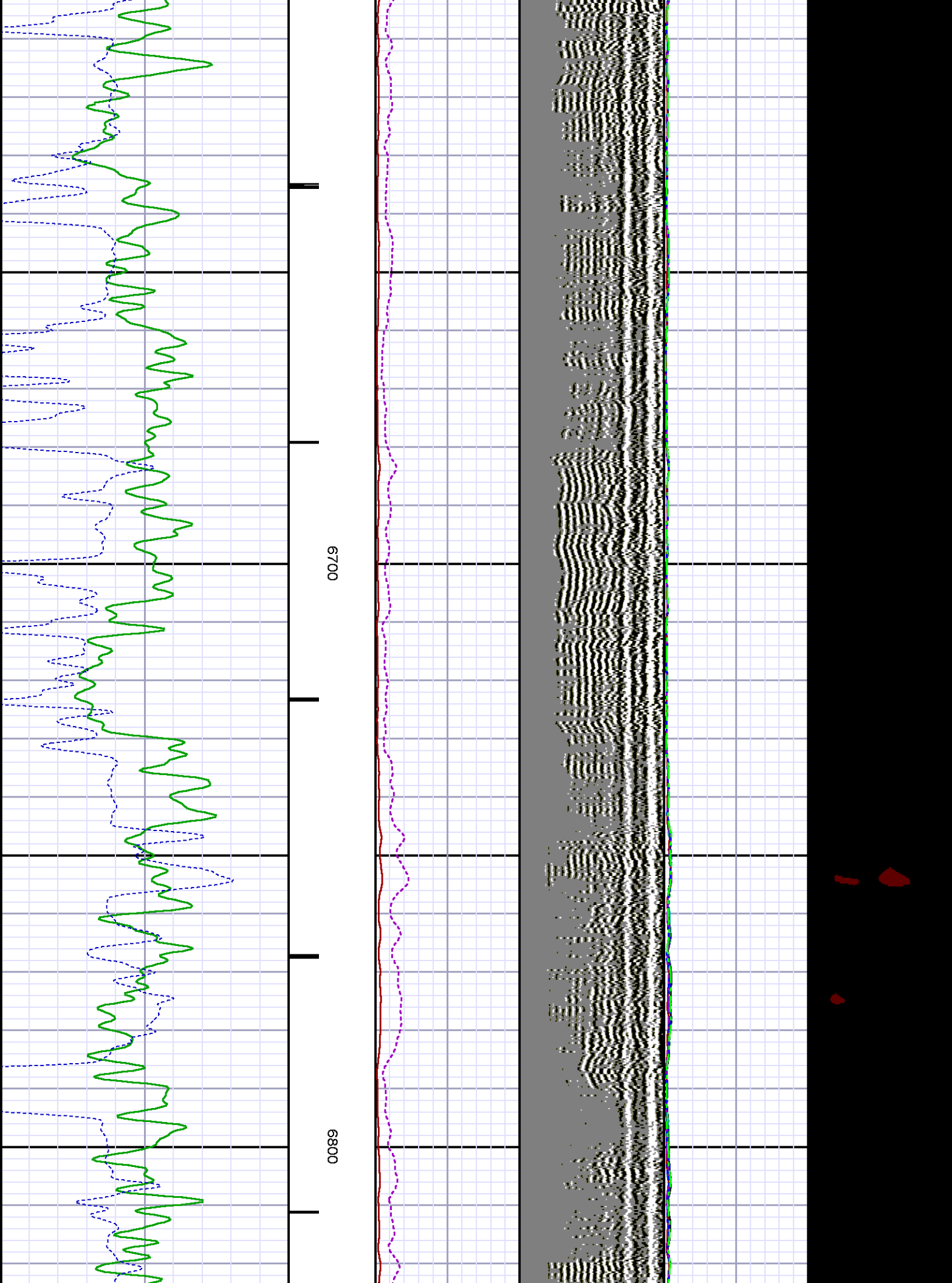


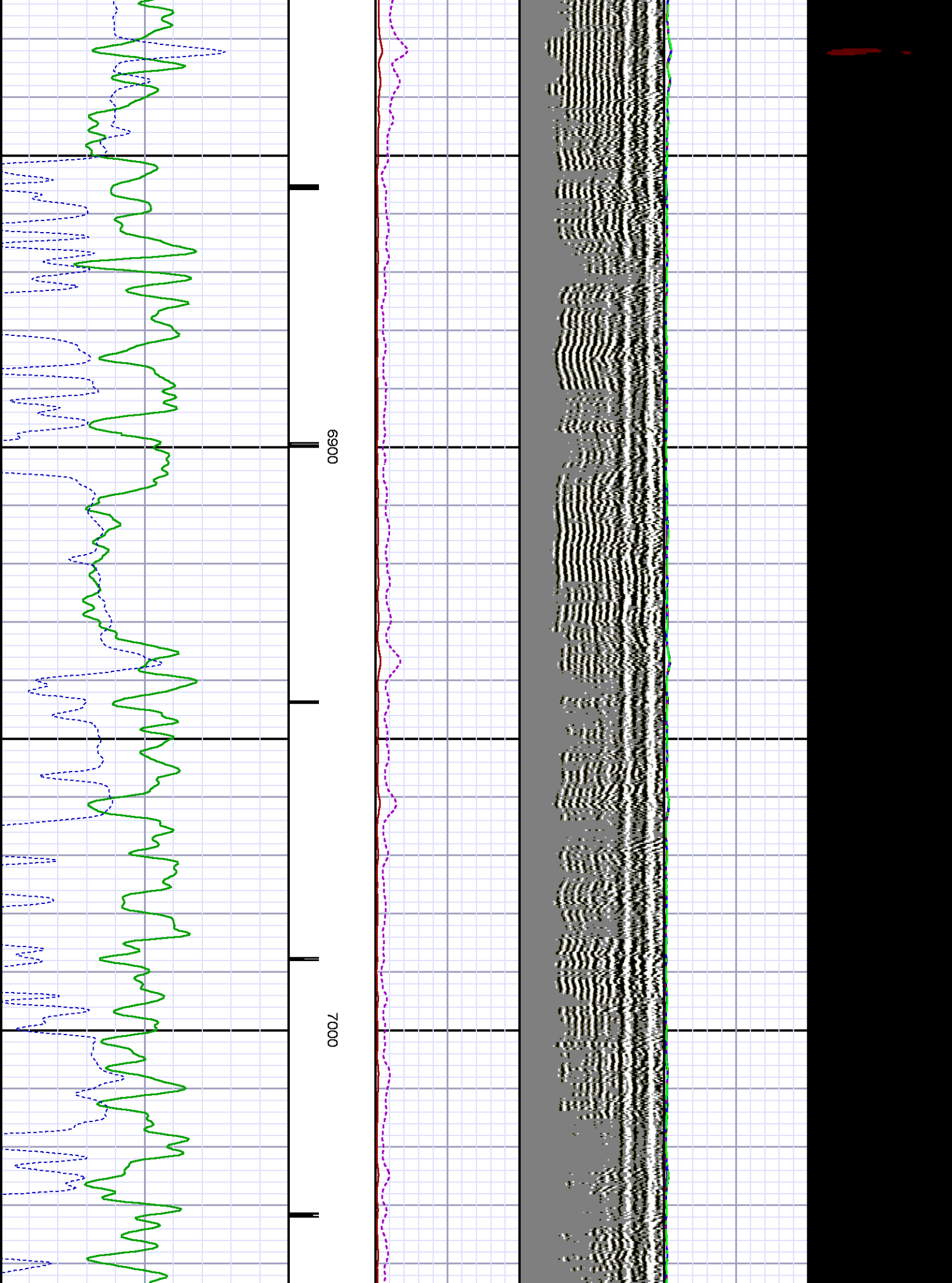


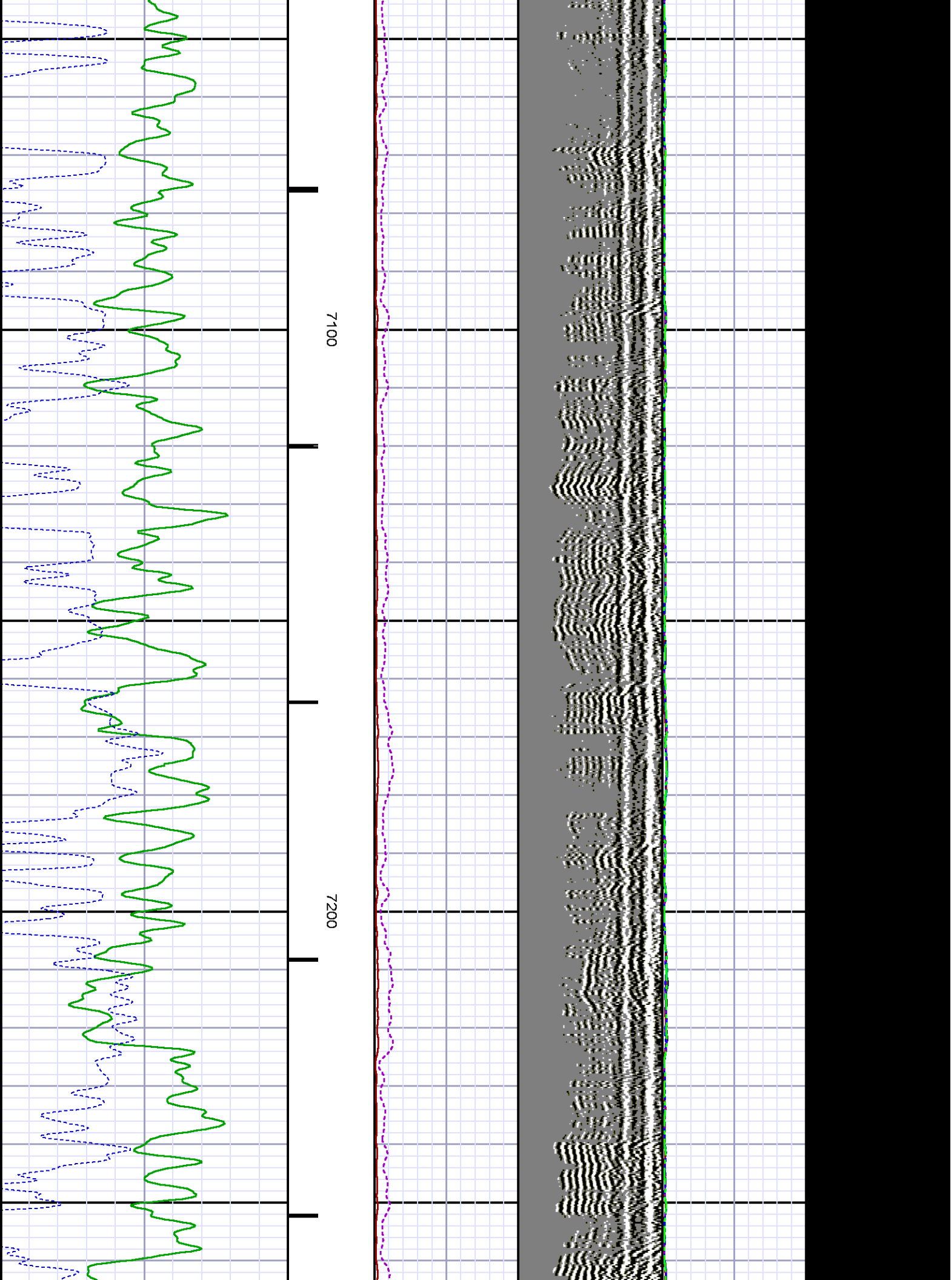


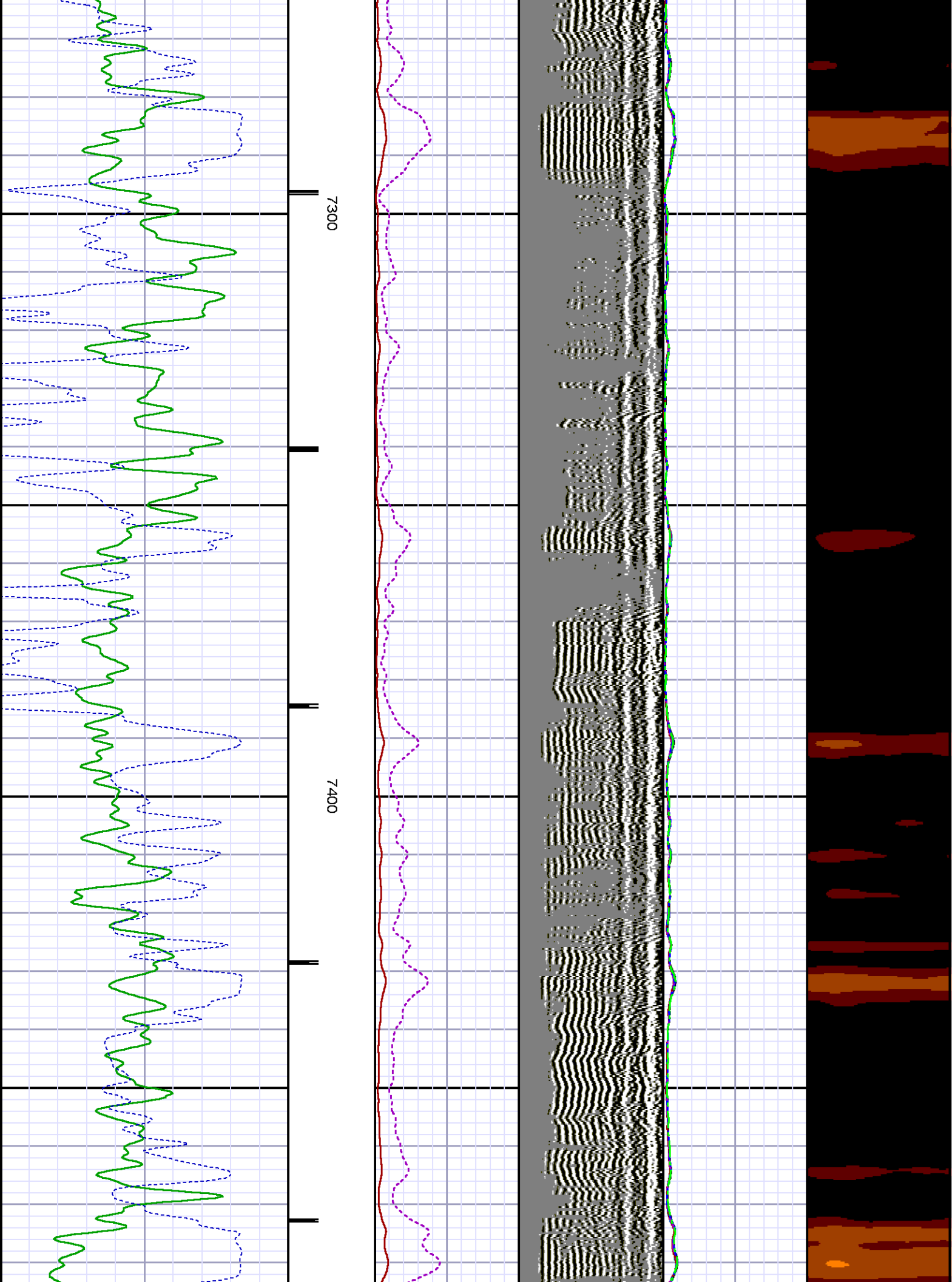


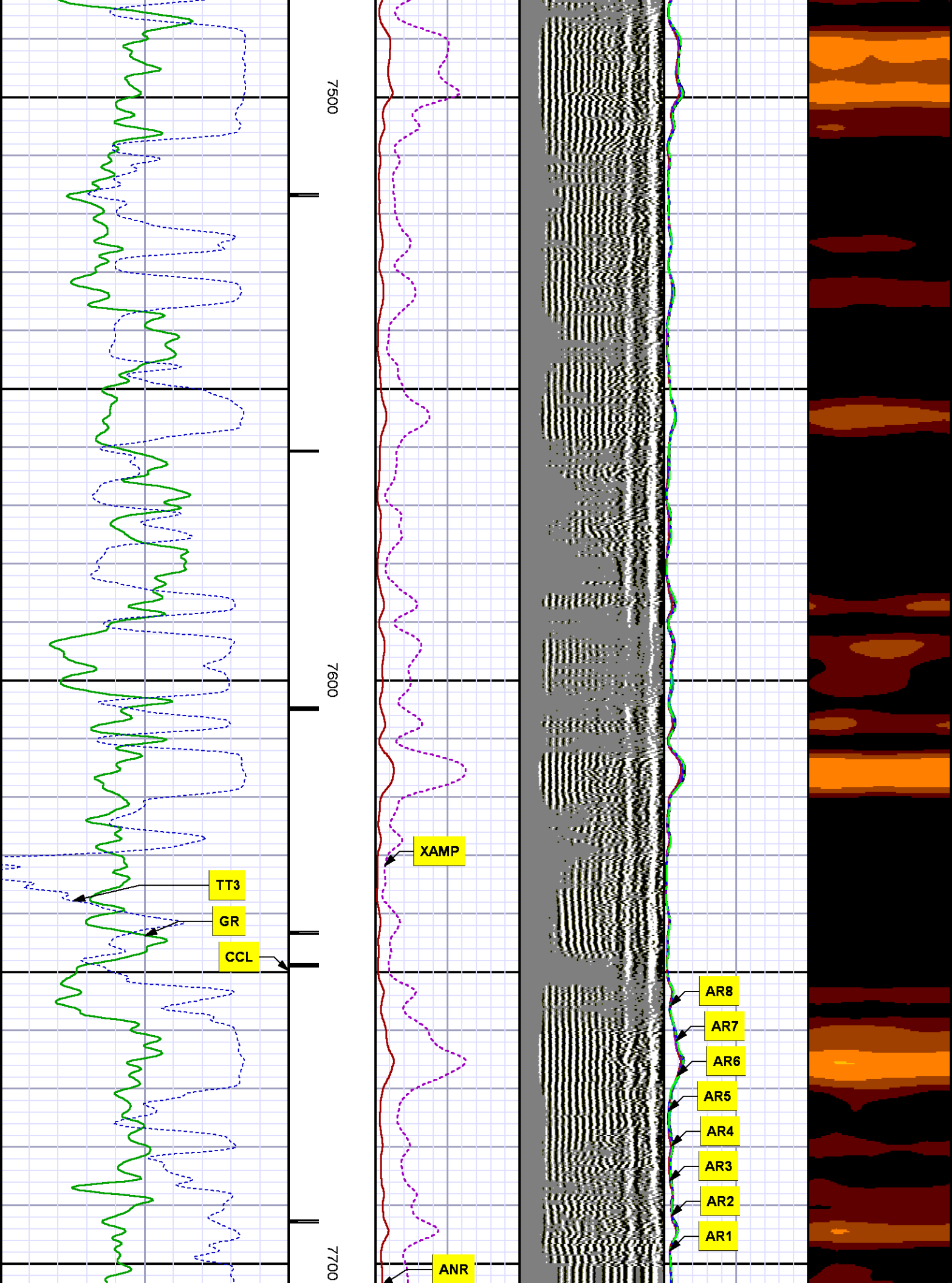


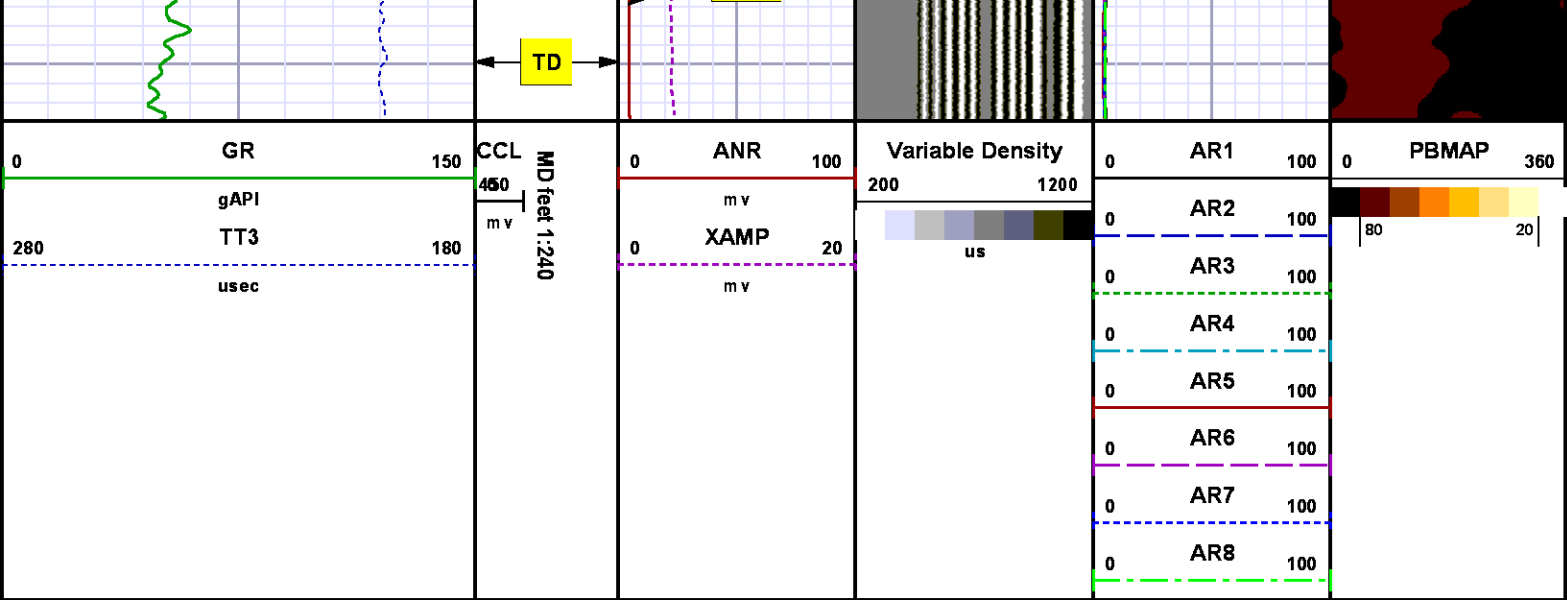












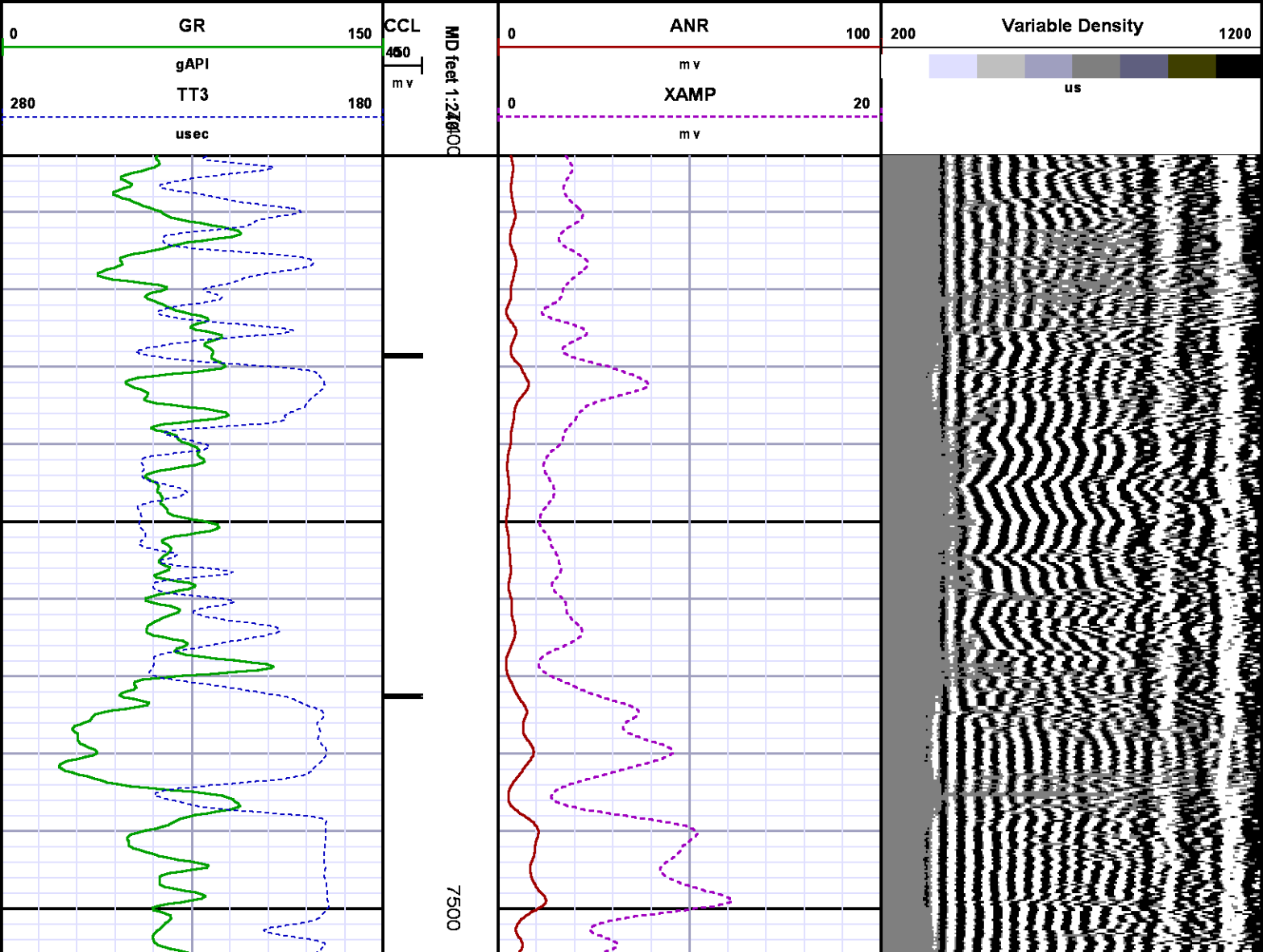
REPEAT SECTION
0 PSI

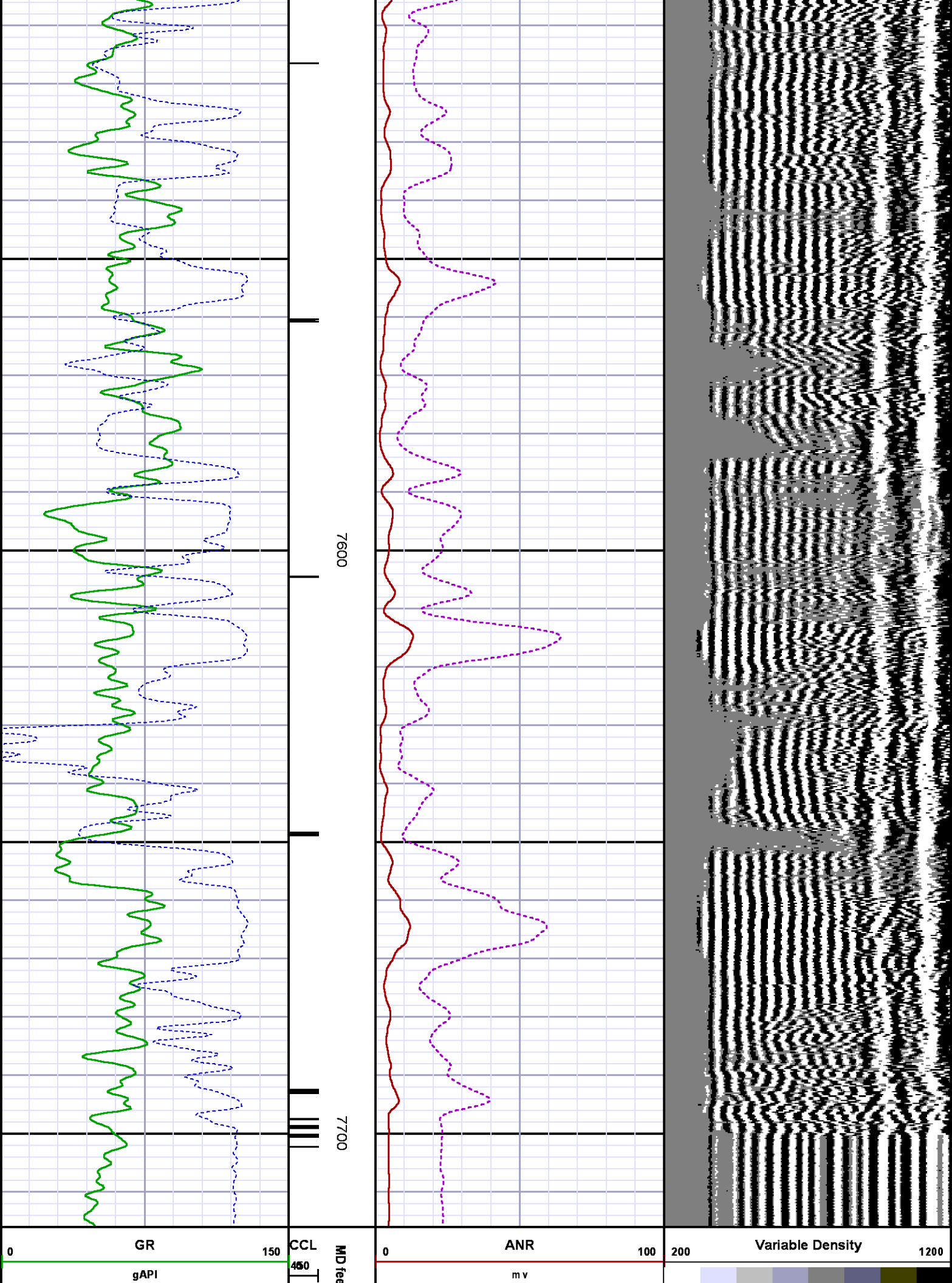
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	7402.544	7727.670
RAL	Amp Gate Start Near	195.000	usec	7402.544	7727.670
RAL	Amp Gate Start Radial	195.000	usec	7402.544	7727.670
RAL	Amp Gate Width Far	25.000	usec	7402.544	7727.670
RAL	Amp Gate Width Near	25.000	usec	7402.544	7727.670
RAL	Amp Gate Width Radial	25.000	usec	7402.544	7727.670
RAL	casing od	4.500	inches	7402.544	7727.670
RAL	casing wt	11.600	lbm/ft	7402.544	7727.670
RAL	FB Start Far	291.900	usec	7402.544	7727.670
RAL	FB Start Near	180.000	usec	7402.544	7727.670
RAL	FB Start Radial	180.000	usec	7402.544	7727.670
RAL	FB Thresh Far	10.000	mv	7402.544	7727.670
RAL	FB Thresh Near	4.000	mv	7402.544	7727.670
RAL	FB Thresh Radial	4.000	mv	7402.544	7727.670
RAL	Fluid Travel Time	200.000	usec/ft	7402.544	7727.669

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 : GOLDSBOROUGH PA 322-11
File Name : d:\well\data\wpx energy\pa 322-11\322ral\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 7402.67 - 7716.00 feet UP
Created : 6/13/2013 4:02:22 PM





280	TT3	180	m v	1:240	0	XAMP	20	us
u sec					m v			

CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\209J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Jun 03 09:09:02 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	149.24	605.69	0.405	60.49	245.49	185.00

Verification File: C:\case\calver\GR\209J1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Mon Jun 03 09:10:36 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: J1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	150.93	617.24	0.405	61.17	250.17	189.00

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106J13_shp.cal

SHOP CALIBRATION SUMMARY

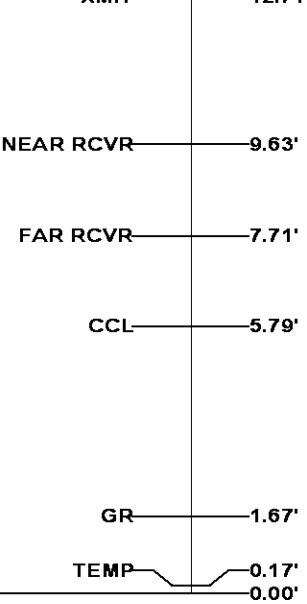
DATE/TIME PERFORMED: Thu Jun 13 15:24:19 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: J13

Tool Delay [usec]	-62.00	Tank OD in	5.50	Tank Wt lbm/ft	15.50	Tank ID in	4.95
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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	215	216	30	166	25	-1.043	100.00	0.18
3 Ft. Receiver	216	216	30	152	25	0.048	100.00	0.18
5 Ft. Receiver	324	323	30	219	25	0.152	150.00	0.20
Radial #1	216	216	30	141	25	0.242	100.00	0.18
Radial #2	216	216	30	141	25	0.132	100.00	0.18
Radial #3	216	216	30	141	25	-0.311	100.00	0.18
Radial #4	216	216	30	141	25	0.142	100.00	0.18

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"

<div></div> <div>Baker Atlas</div> <div></div>	Company WPX ENERGY		File No: CH073167	
	Well GOLDSBOROUGH PA 322-11		API No: 05045218260000	
	Field PARACHUTE			
County GARFIELD		State COLORADO		
Location		Elevations		
SHL: 2403' FNL, 2067' FWL		KB 6300 ft		PA 22-11 PAD
BHL: 1759' FNL, 2030' FWL		DF		11 7S 95W
		GL 6274 ft		CYCLONE 17
SEC 11		TWP 7S	RGE 95W	