



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	WPX ENERGY
CH081739	Well	FEDERAL RG 42-15-298
API No:	Field	SULPHUR CREEK
05103117920000	County	RIO BLANCO
	State	CO
15 2S 98W RG 12-14-298 PAD CYCLONE 29	Location SHL: 1563' FNL & 482' FNL (14 2S 98W) BHL: 1853' FNL & 656' FEL (15 2S 98W)	Other Services RPM
Permanent Datum	GL	Elevation
Log Measured From	KB	21 ft
Drill Measured From	KB	Above P. D.
		Elevations KB 6561 ft DF GL 6560 ft
	SEC 15	TWP 25
	RGE 98W	

Date	23/JAN/14
Run	ONE
Service Order	US625094
Depth Driller	10945 ft
Depth Logger	10893 ft
Bottom Logged Interval	10863 ft
Top Logged Interval	21 ft
Time Started	17:30
Time Finished	21:30
Operator Rig Time	4 HOURS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	70 ft
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	65 fpm
Maximum Recorded Temperature	274 degF
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JCT.
Recorded By	NEWELL
Witnessed By	WAYNE MARCOTTE

- 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
30 in	0 ft	80 ft
14.75/13.5	80 ft	3054 ft
8.75/7.875	3054 ft	10981 ft

Casing Record				
Size	Weight	Grade	From	To
18 in			0 ft	80 ft
9.625 in			0 ft	3054 ft
4.5 in	11.5 lbm/ft	P-110	0 ft	10981 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 15 feet.
Logged with zero PSI at wellhead.

BHT = 274 °F
SJ = 5503' -5523'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CBL	1426XA	10218496	CENTRALIZED
1	1	GR/CCL	2459XA	10124121	CENTRALIZED

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	28.124	10915.000
RAL	Amp Gate Start Near	195.000	usec	28.124	10915.000
RAL	Amp Gate Start Radial	195.000	usec	28.124	10915.000
RAL	Amp Gate Width Far	25.000	usec	28.124	10915.000
RAL	Amp Gate Width Near	25.000	usec	28.124	10915.000
RAL	Amp Gate Width Radial	25.000	usec	28.124	10915.000
RAL	casing od	4.500	inches	28.124	10915.000
RAL	casing wt	11.600	lbm/ft	28.124	10915.000
RAL	FB Start Far	291.900	usec	28.124	10915.000
RAL	FB Start Near	175.391	usec	28.124	10915.000
RAL	FB Start Radial	175.391	usec	28.124	10915.000
RAL	FB Thresh Far	10.000	mv	28.124	10915.000
RAL	FB Thresh Near	4.000	mv	28.124	10915.000
RAL	FB Thresh Radial	4.000	mv	28.124	10915.000
RAL	Fluid Travel Time	200.000	usec/ft	28.124	10914.874

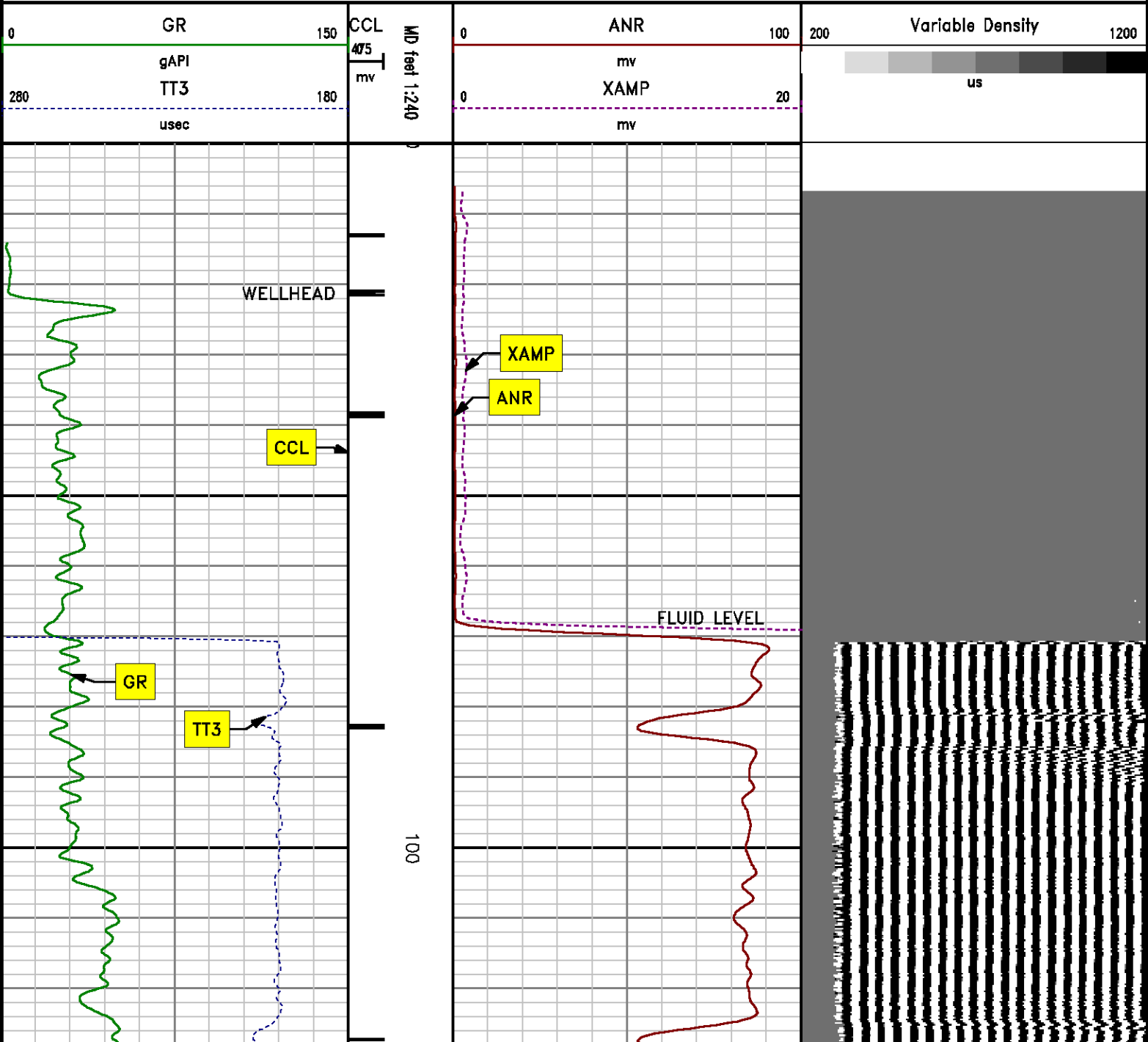
DEPTH OFFSETS
(for Acquired Curves)

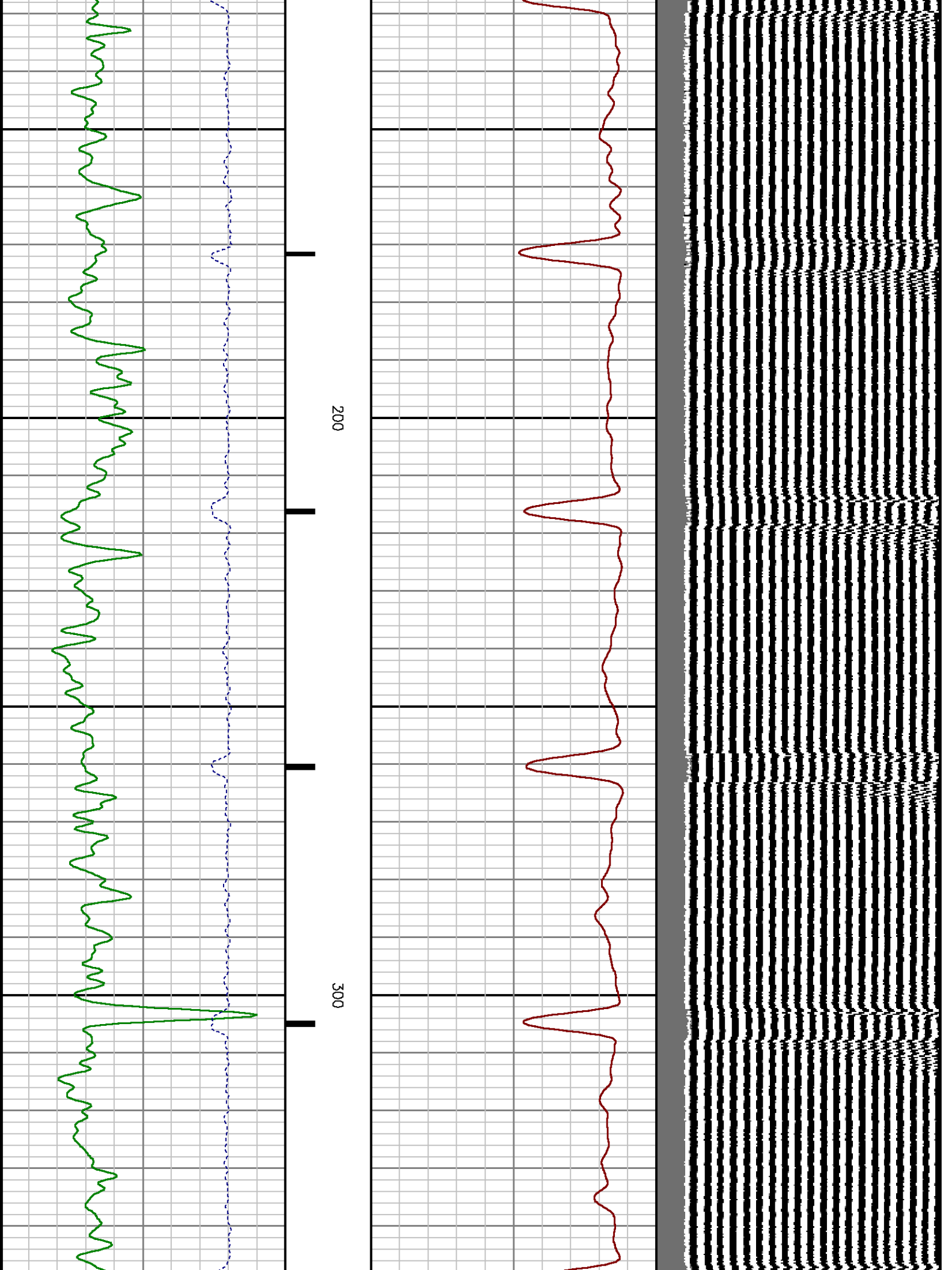
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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		AR5	AR6	AR7	AR8	AR9	AR10

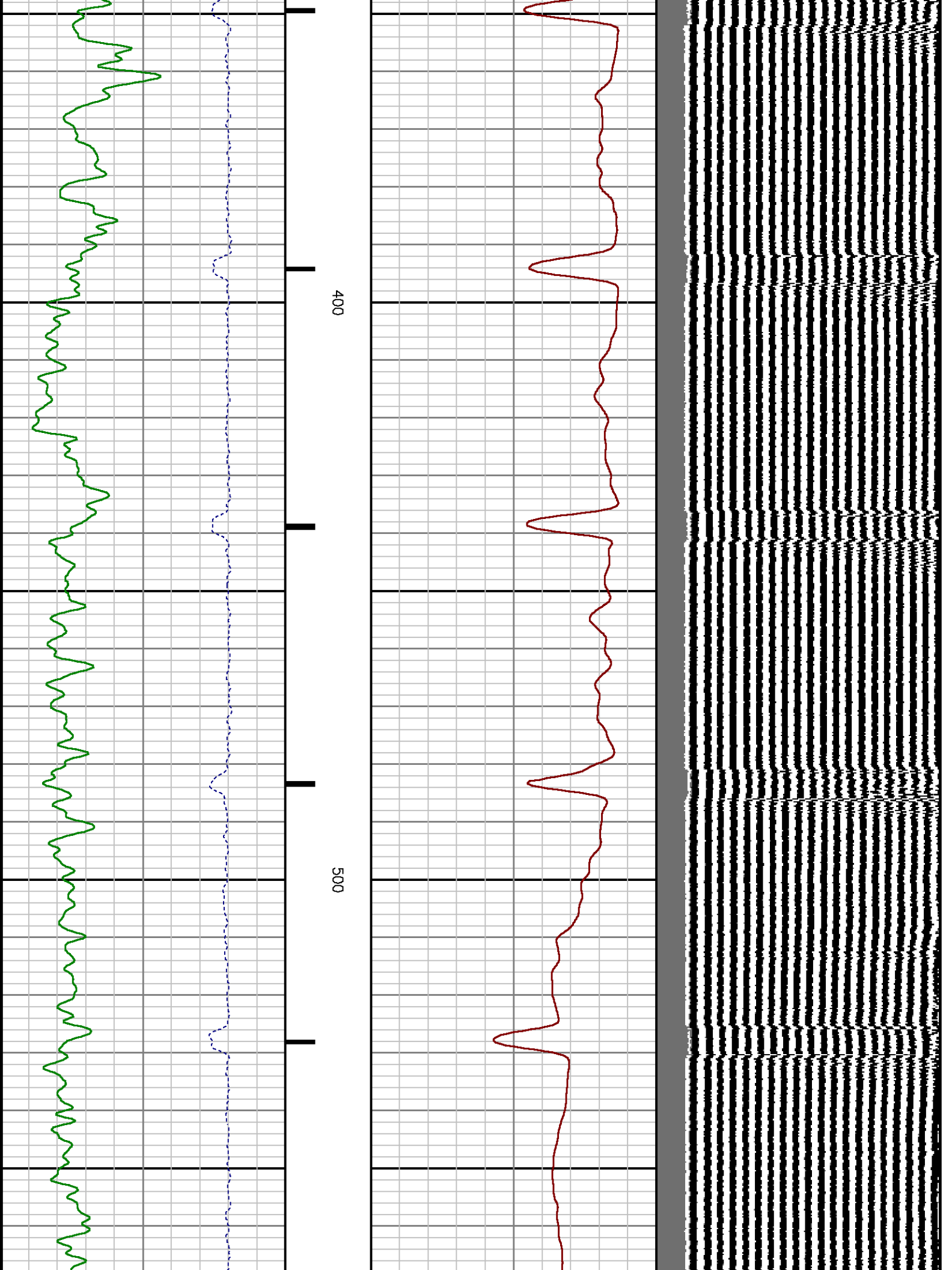
1426XA -15.750
 2459XA -11.340
 2459XA -9.490
 2459XA -4.090

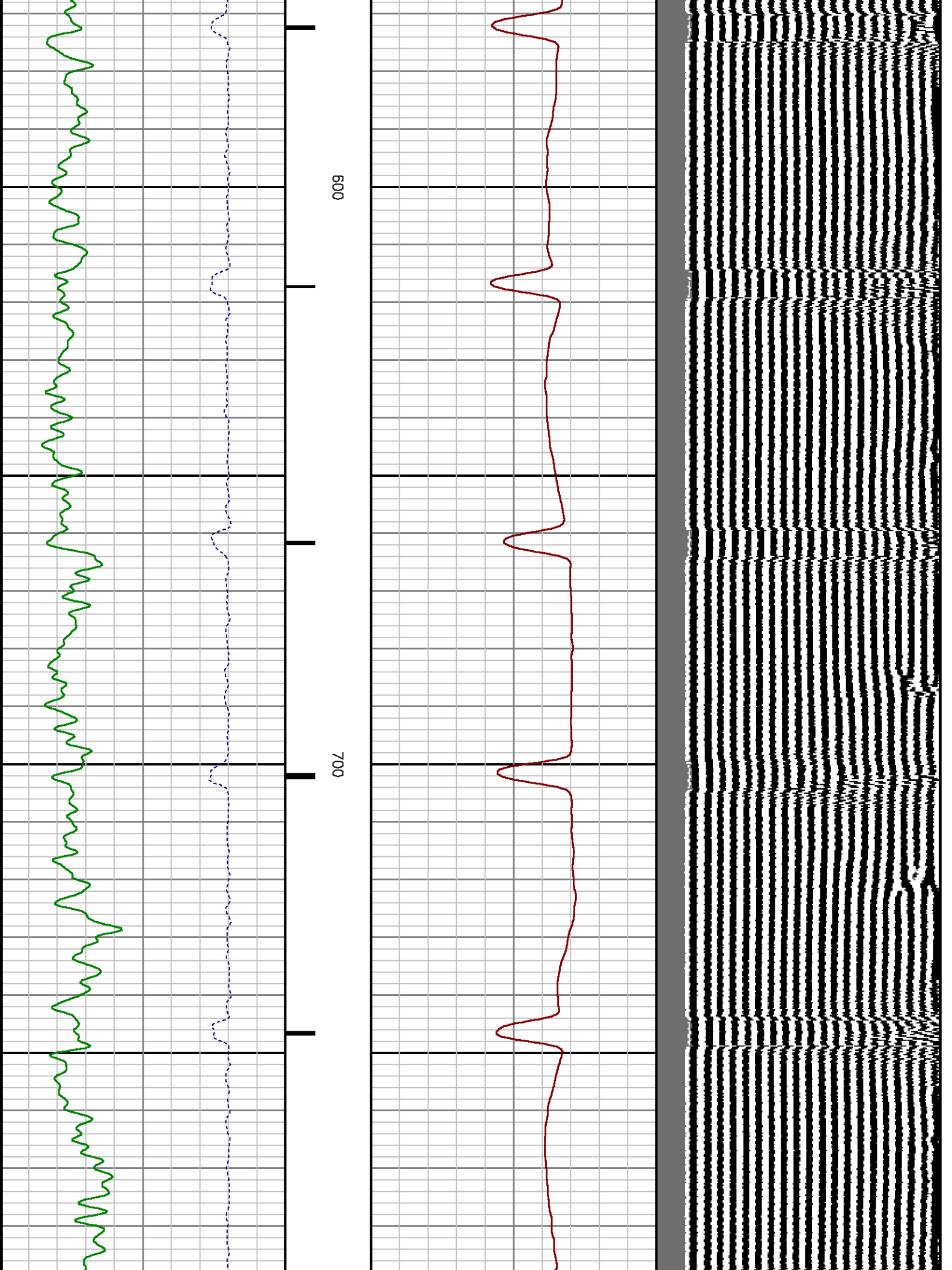
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FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

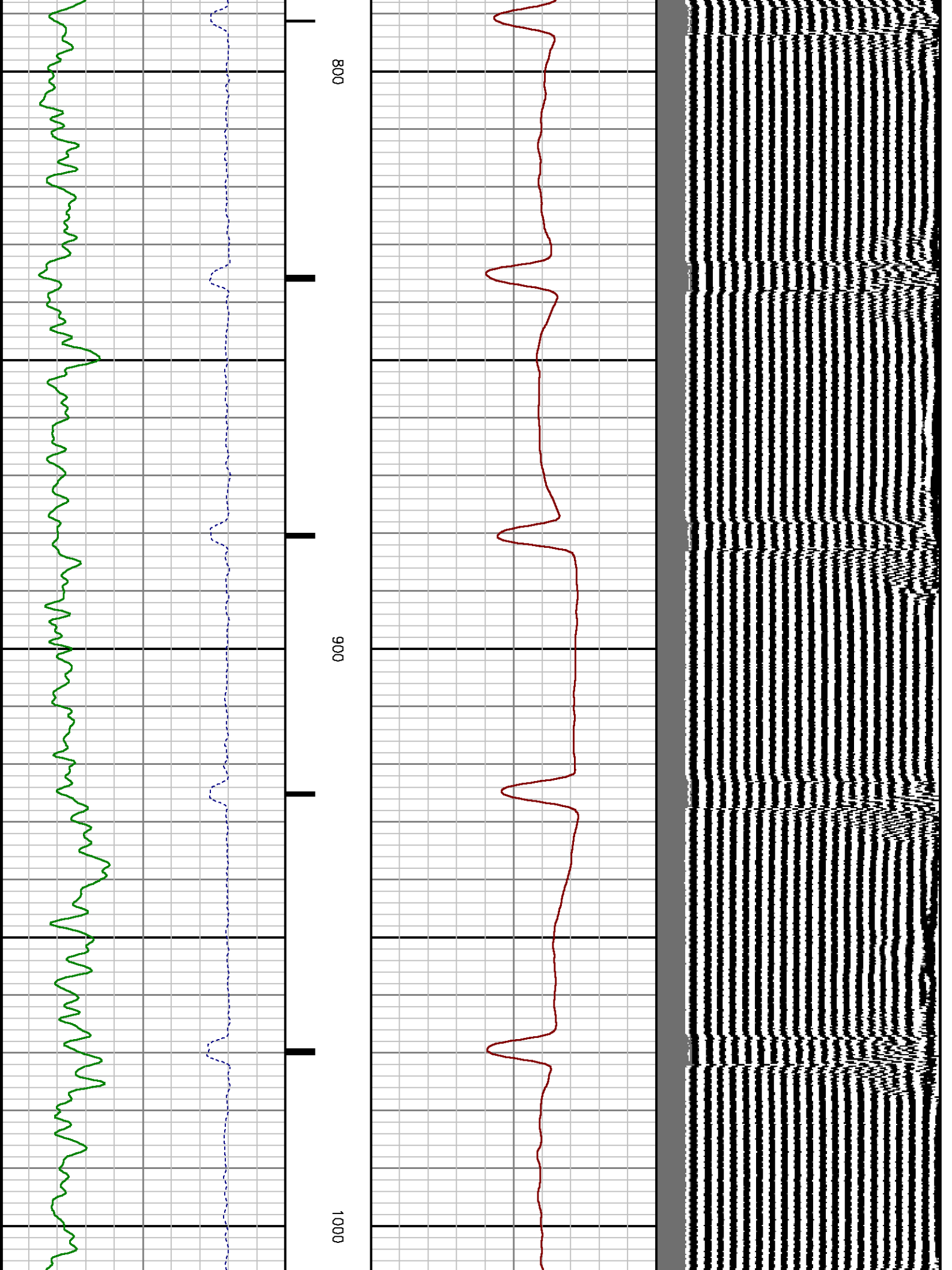
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 Plotted by : PlotMgr, v5.4.504
 Company : WPX ENERGY
 Well : FEDERAL RG 42-15-298
 File Name : d:\welldata\wpx\federal rg 42-15-298\cbl42\main.xtf
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 Interval : 0.00 - 10898.00 feet UP
 Created : 1/23/2014 6:35:11 PM

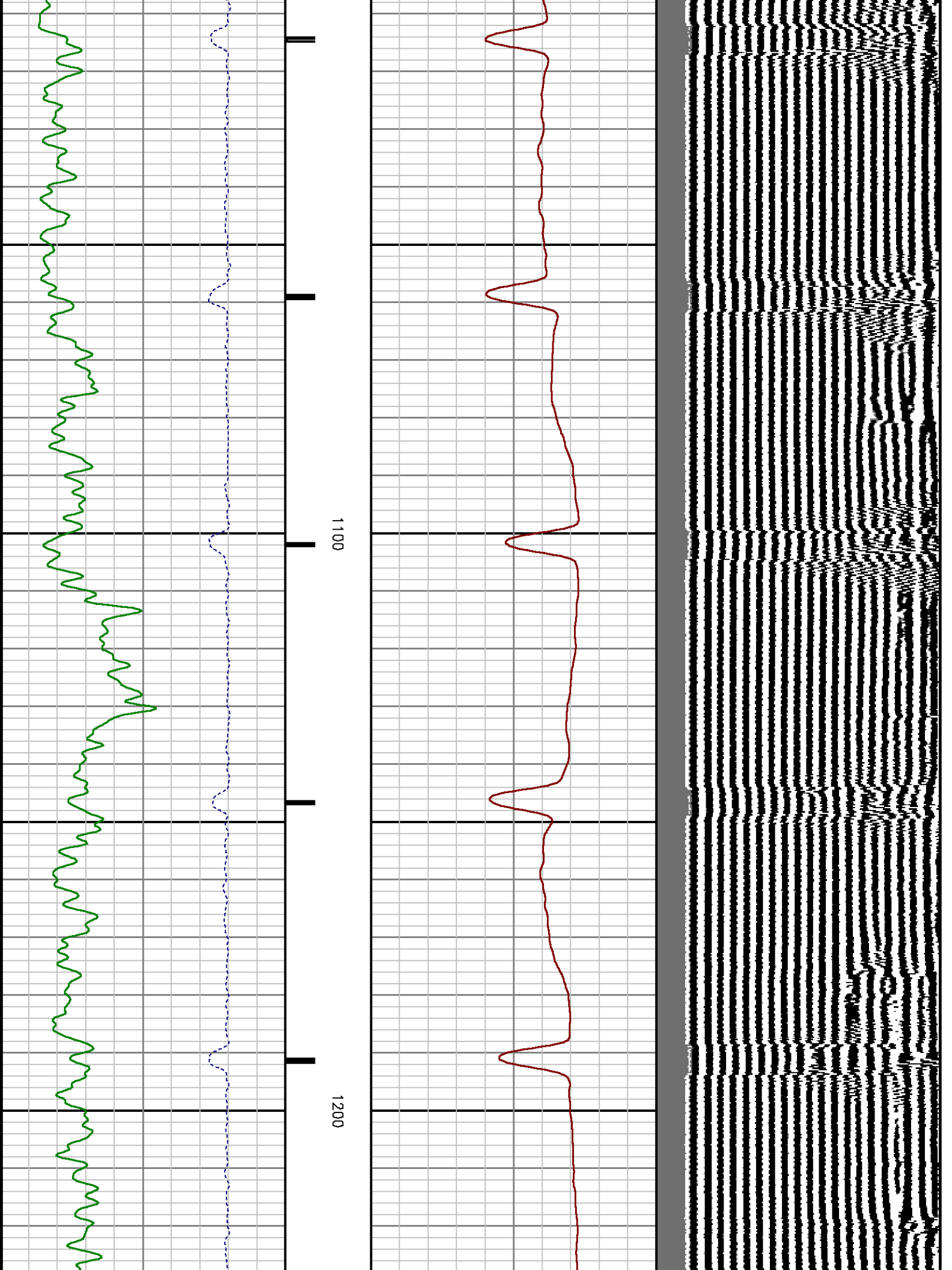


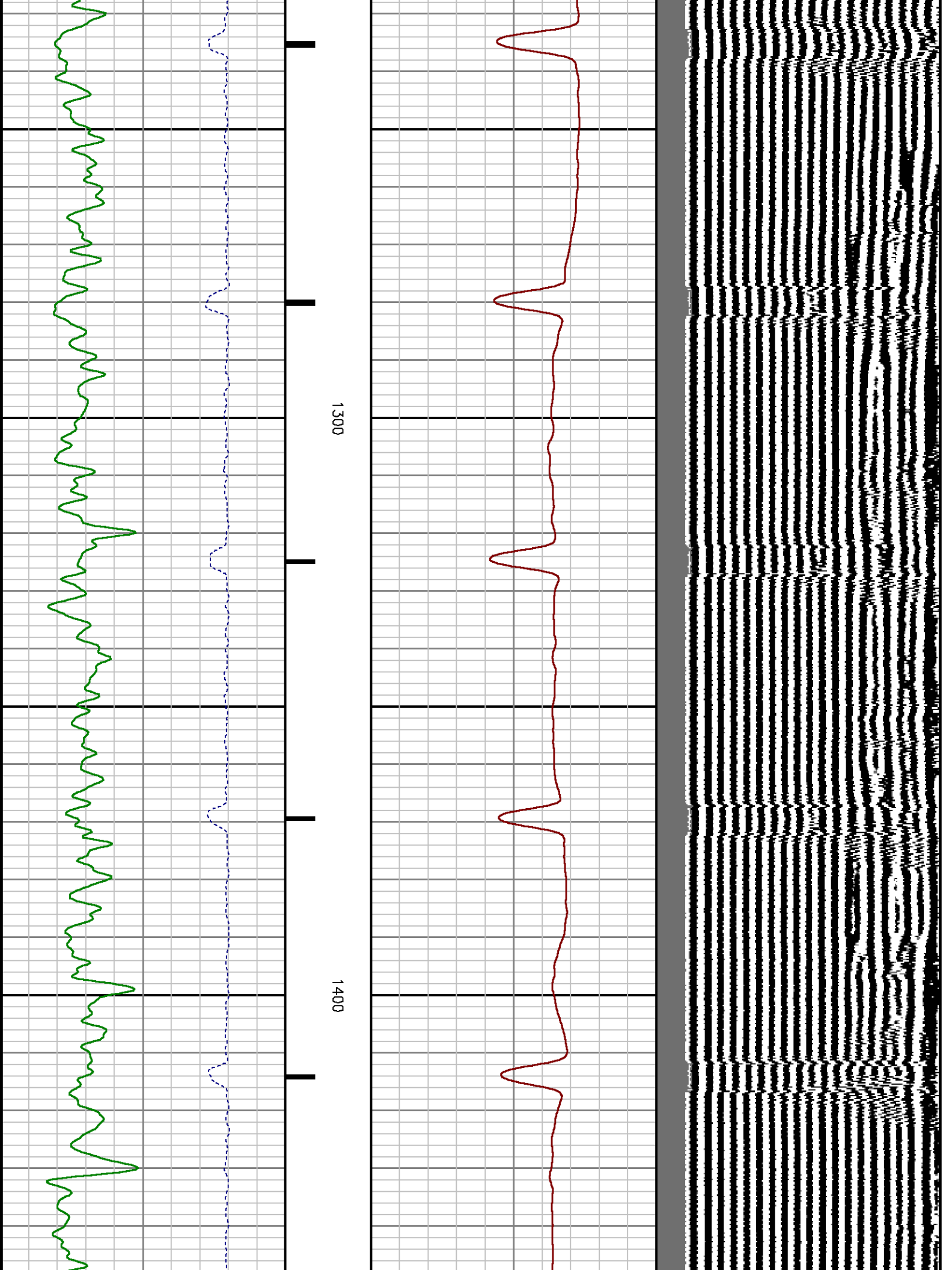


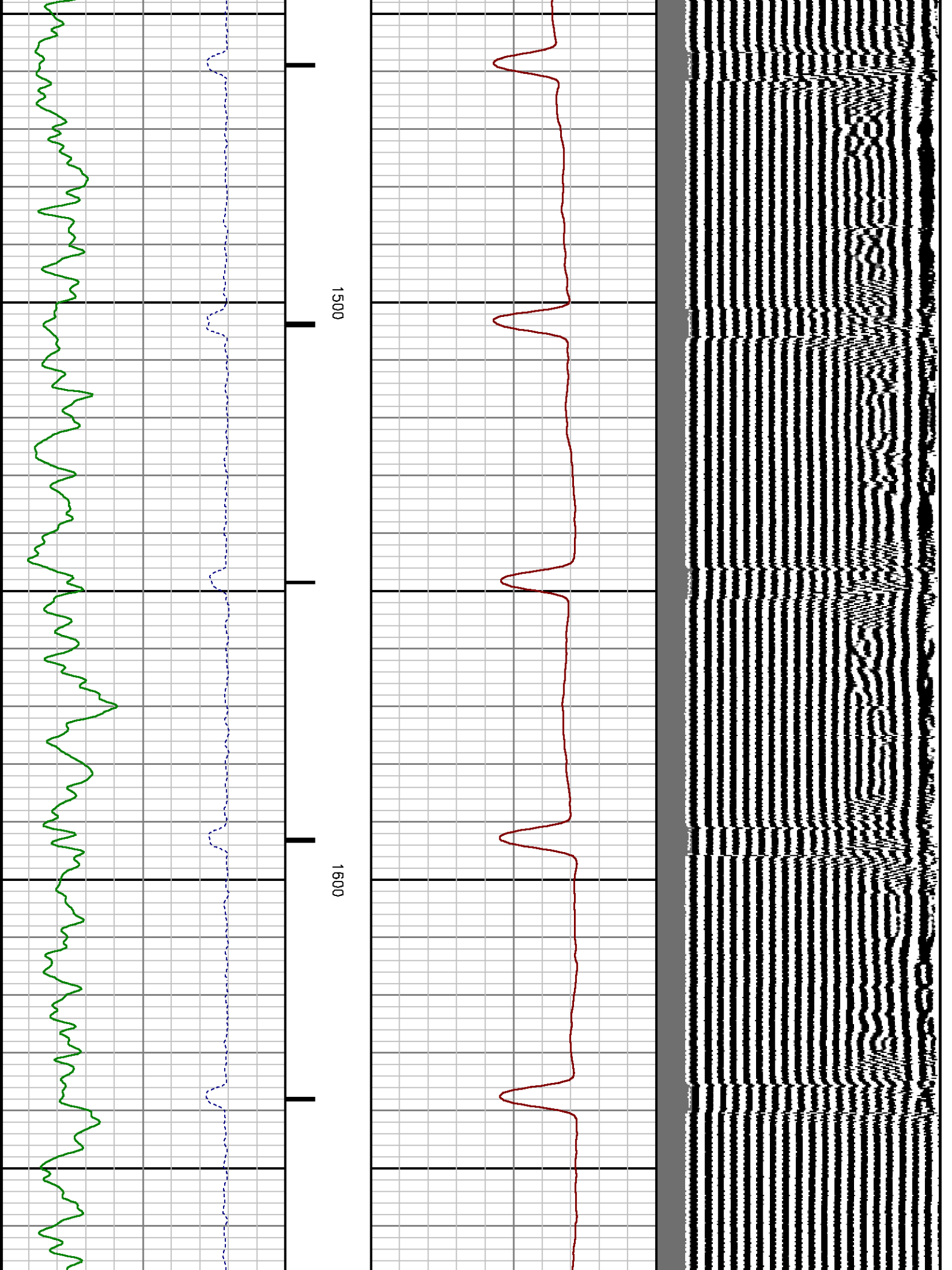


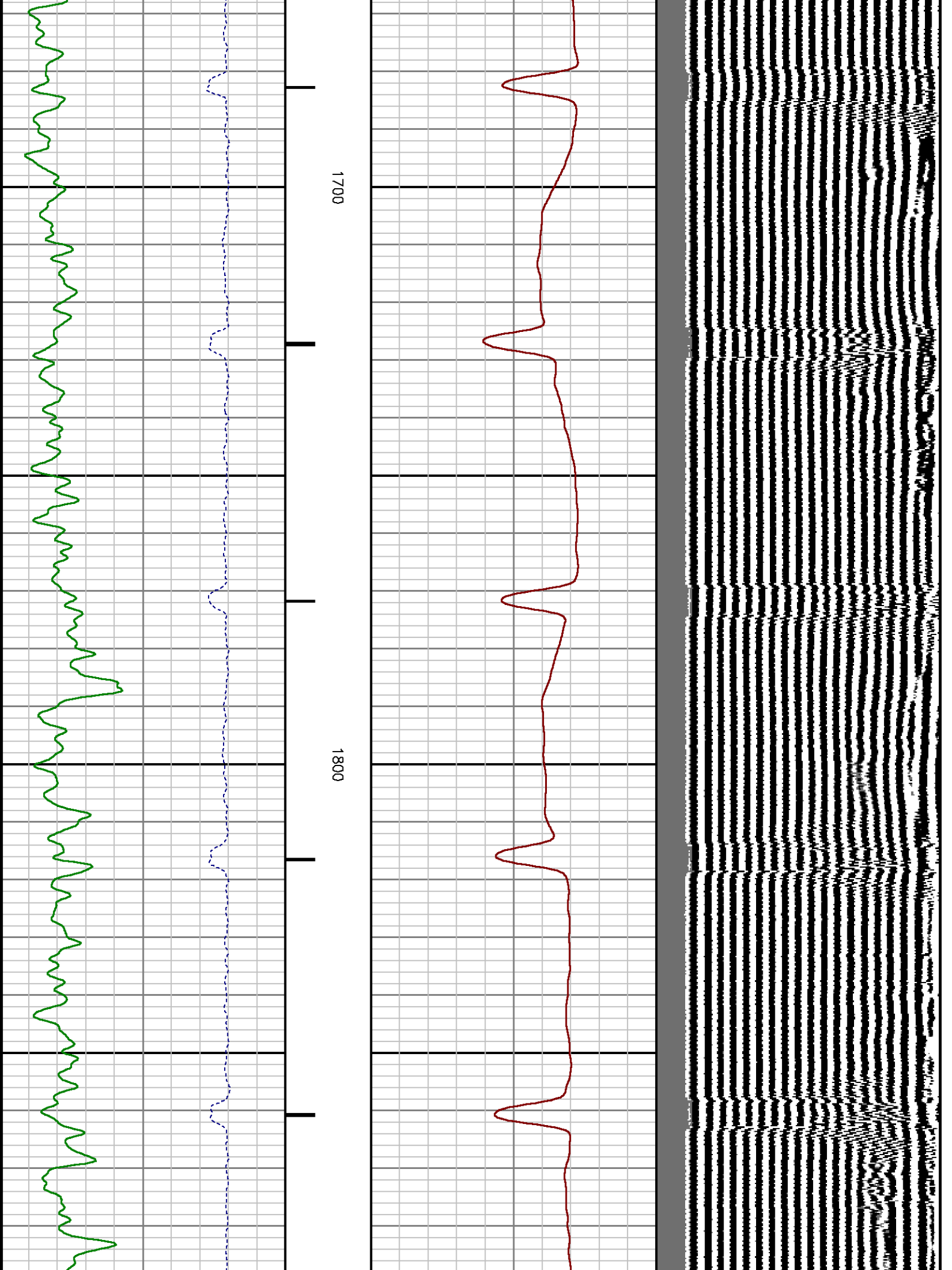


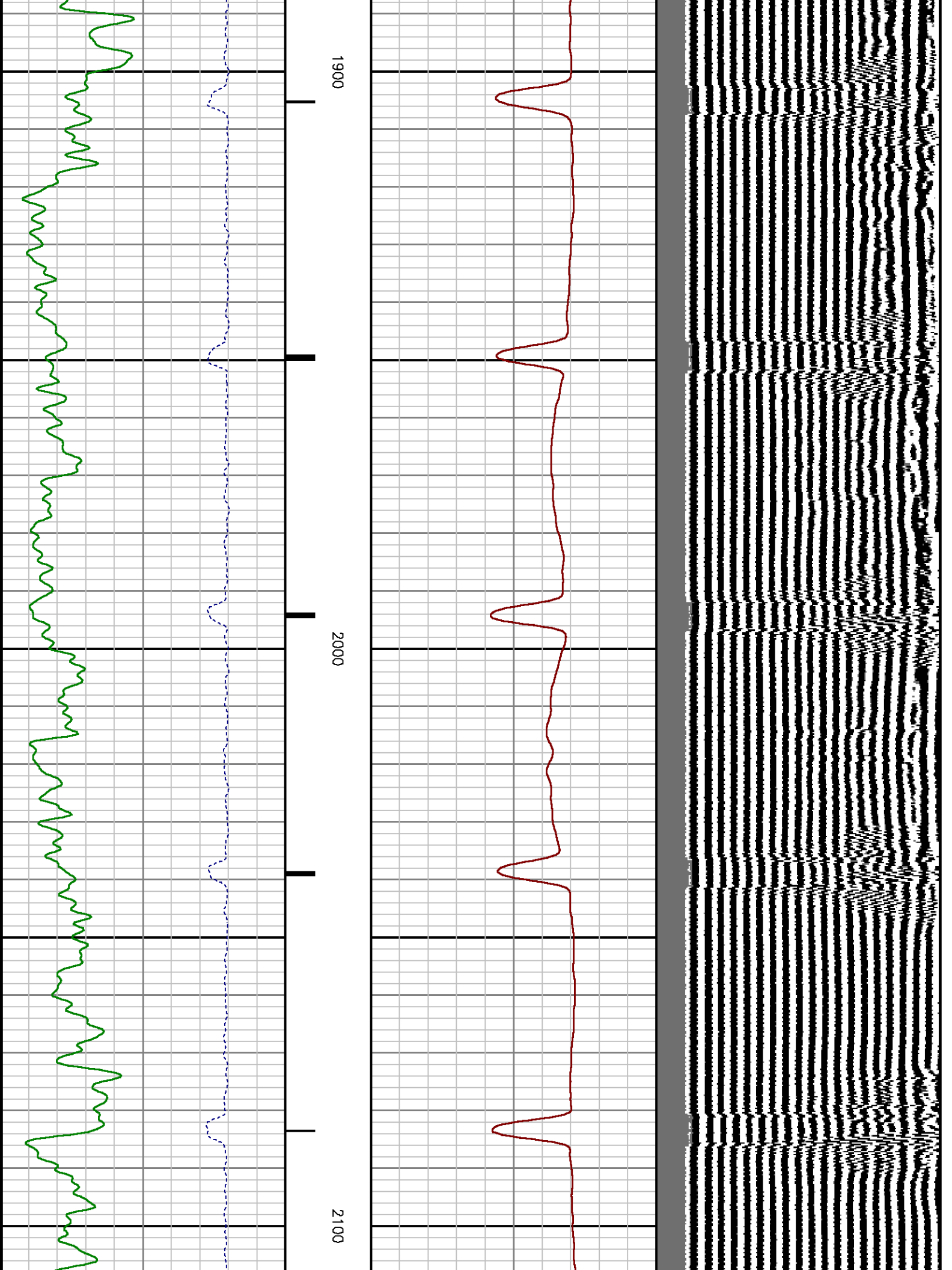


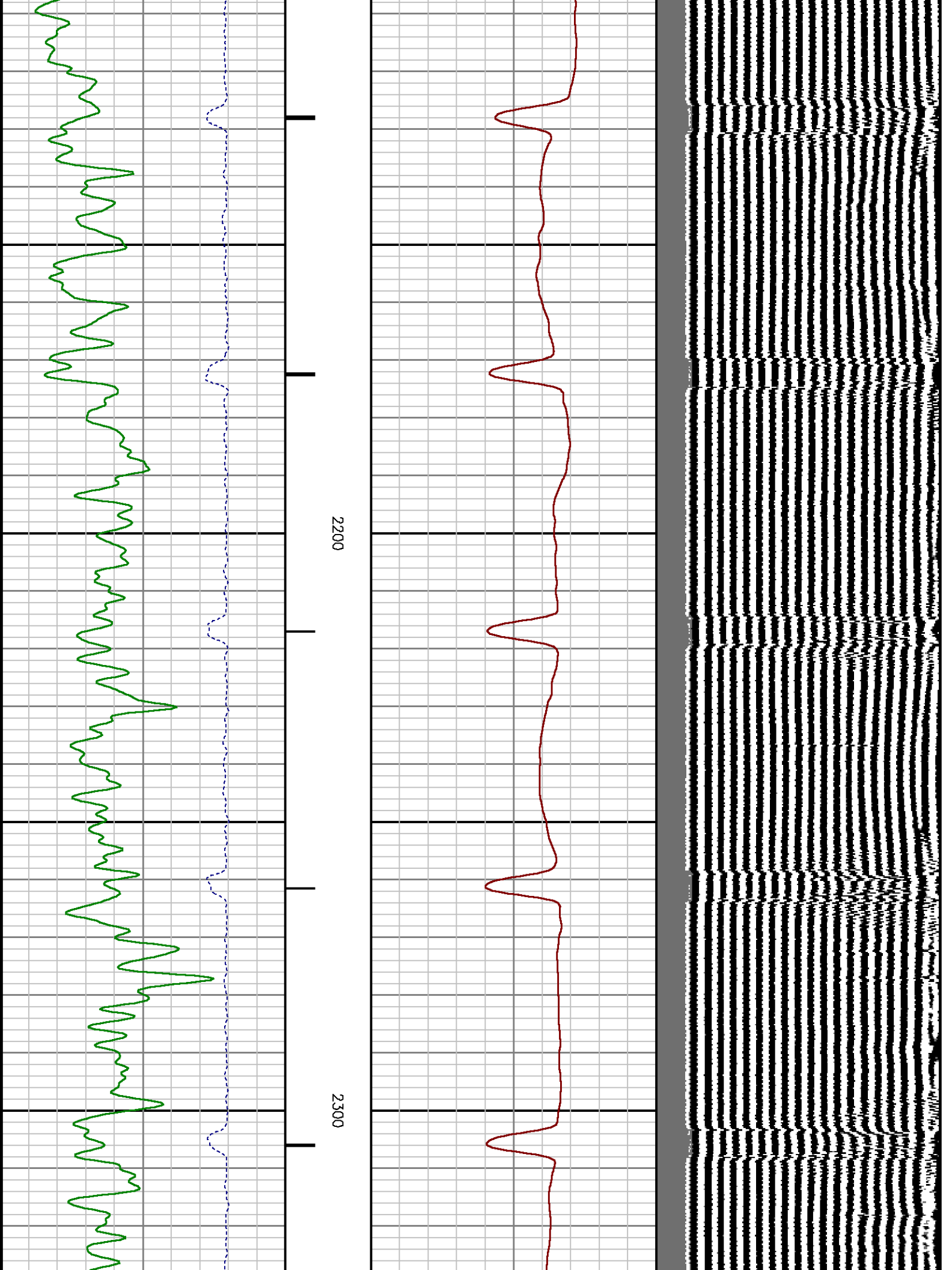


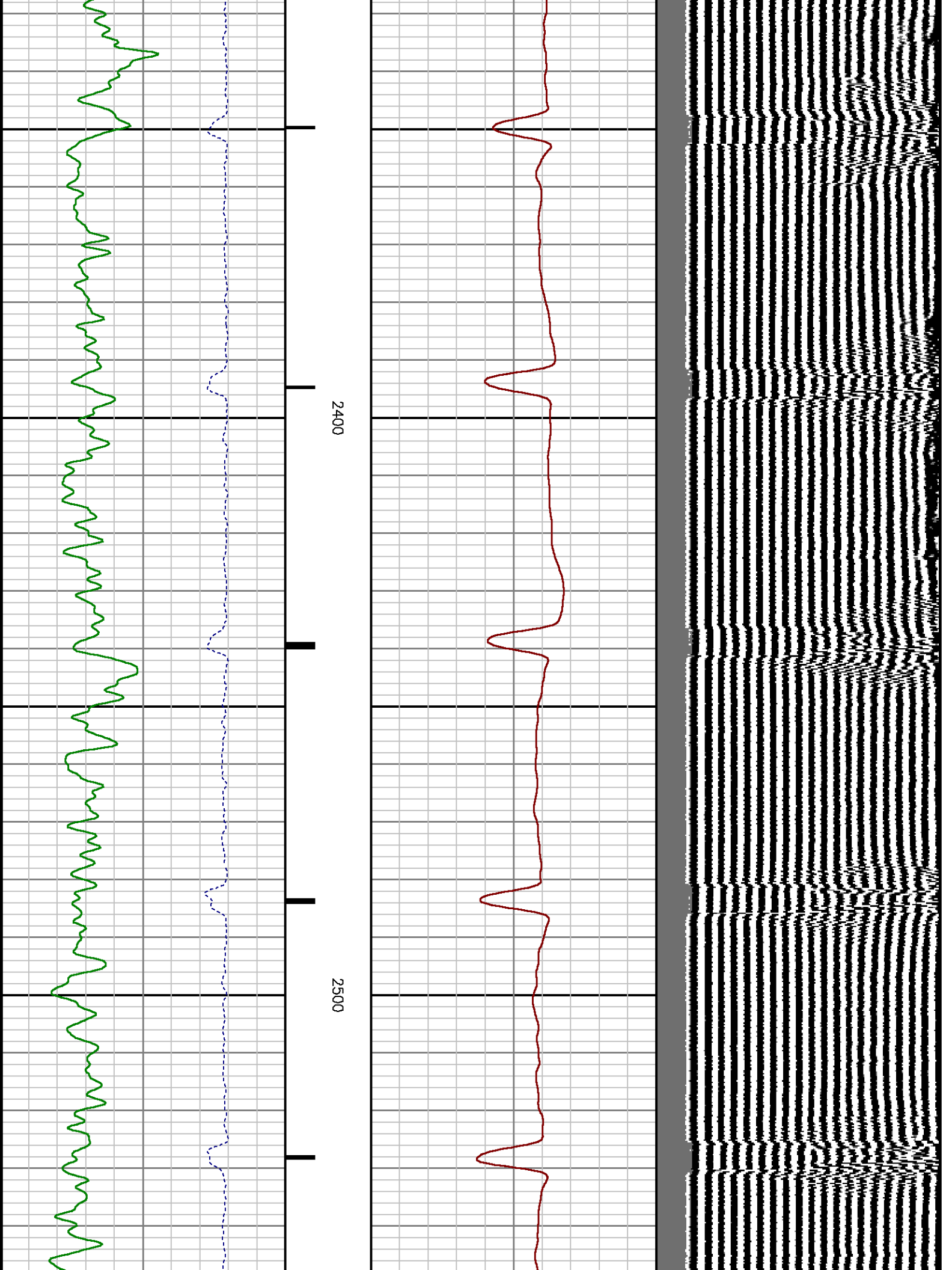


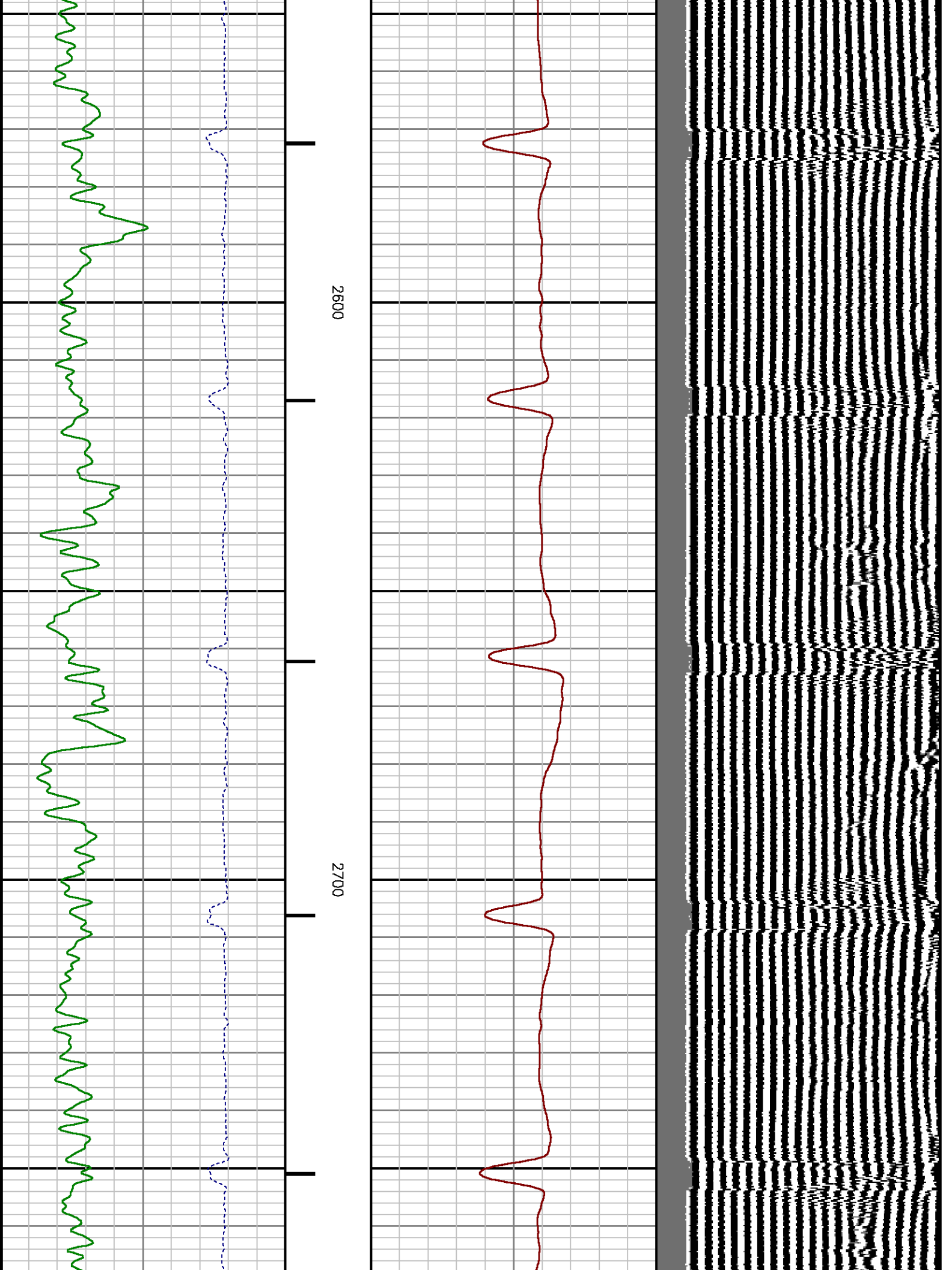


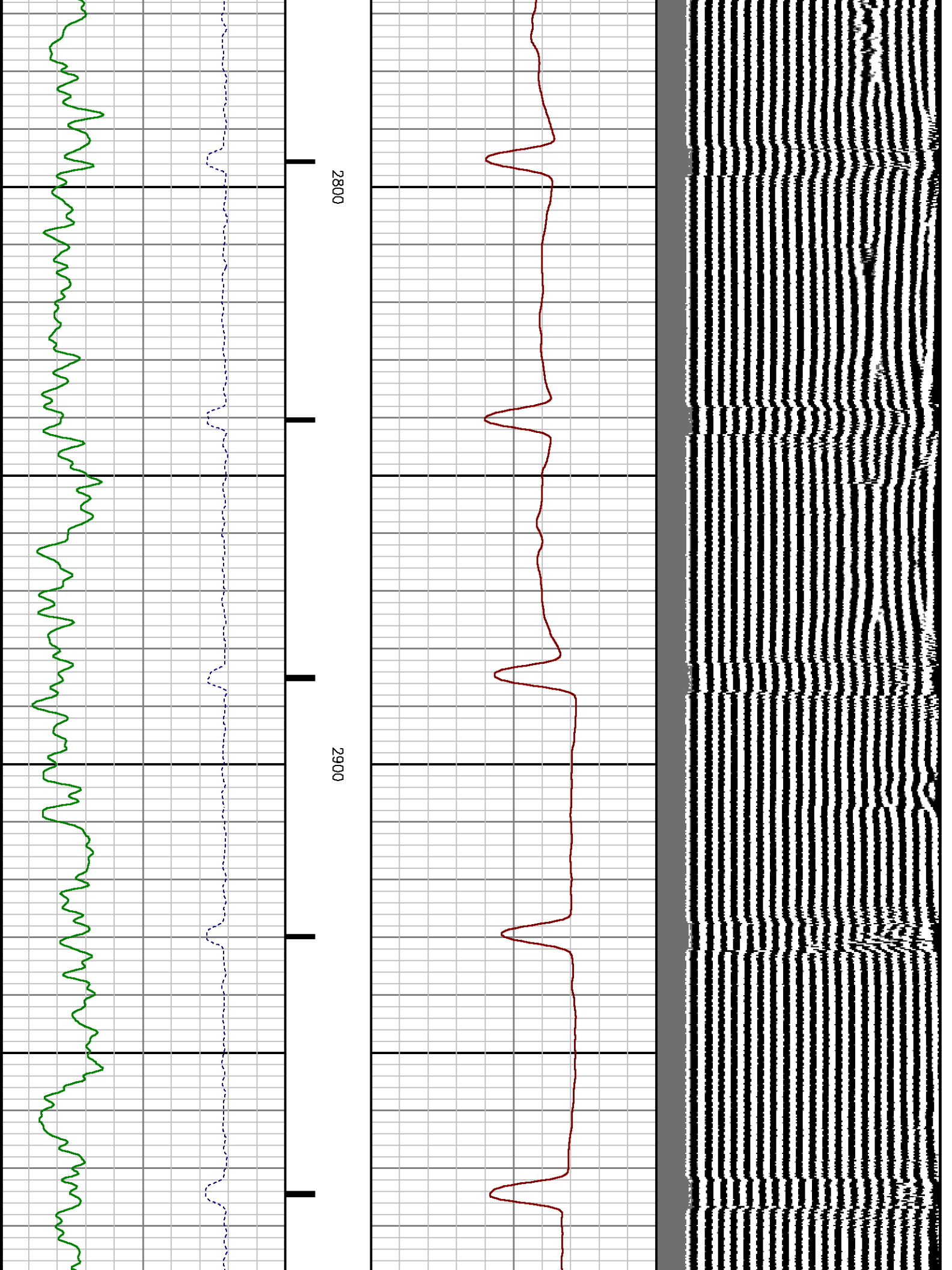


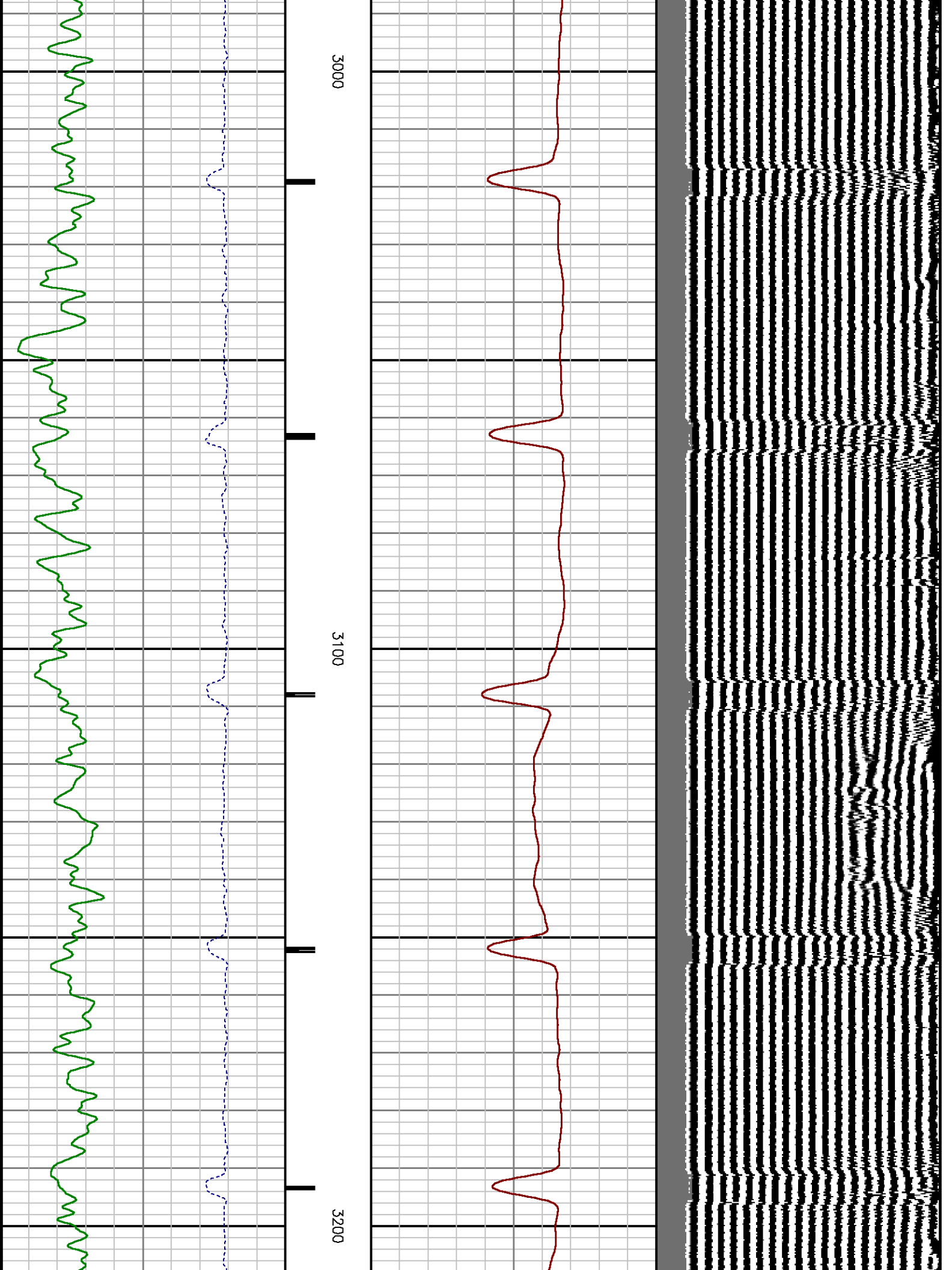


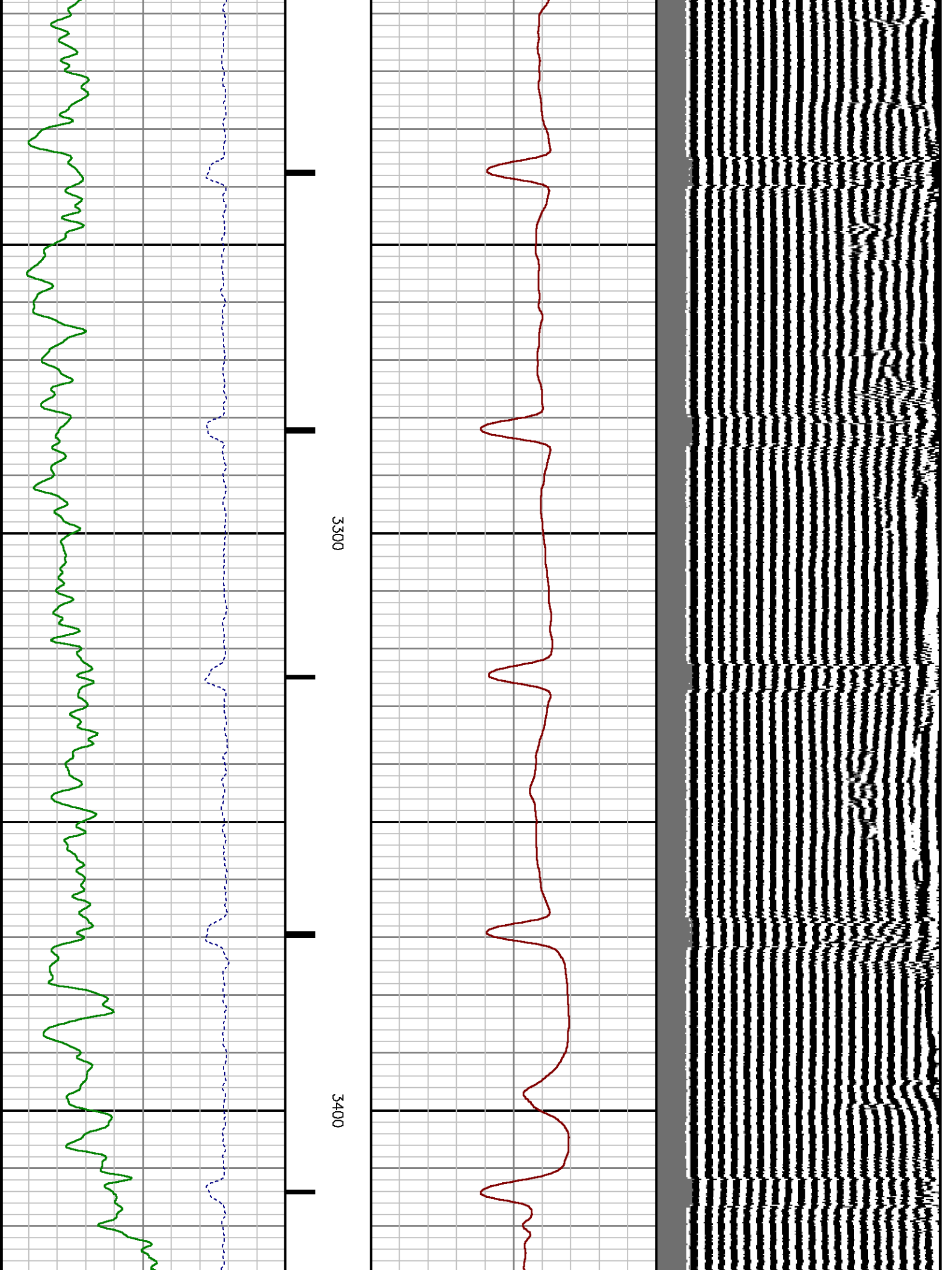


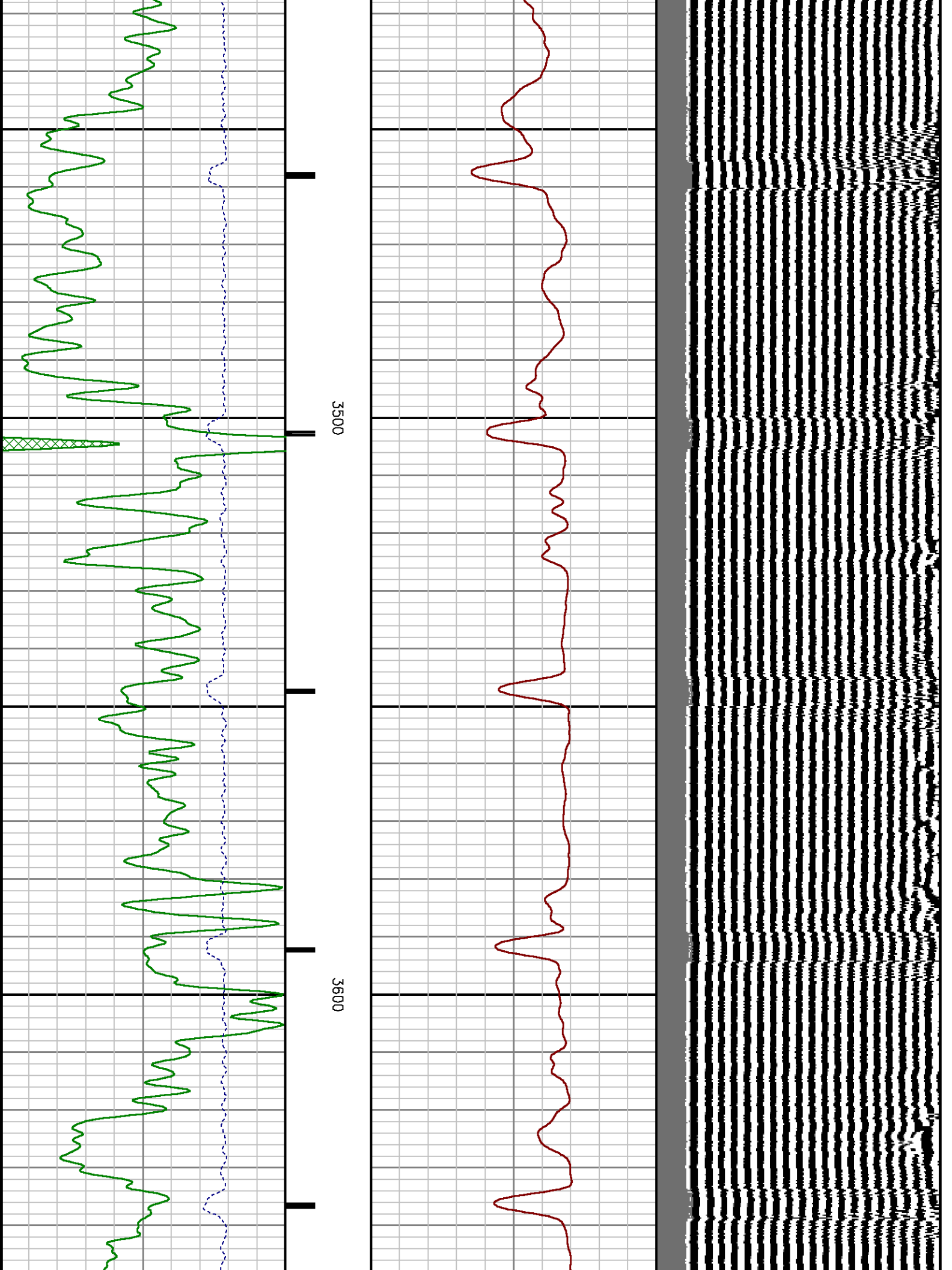


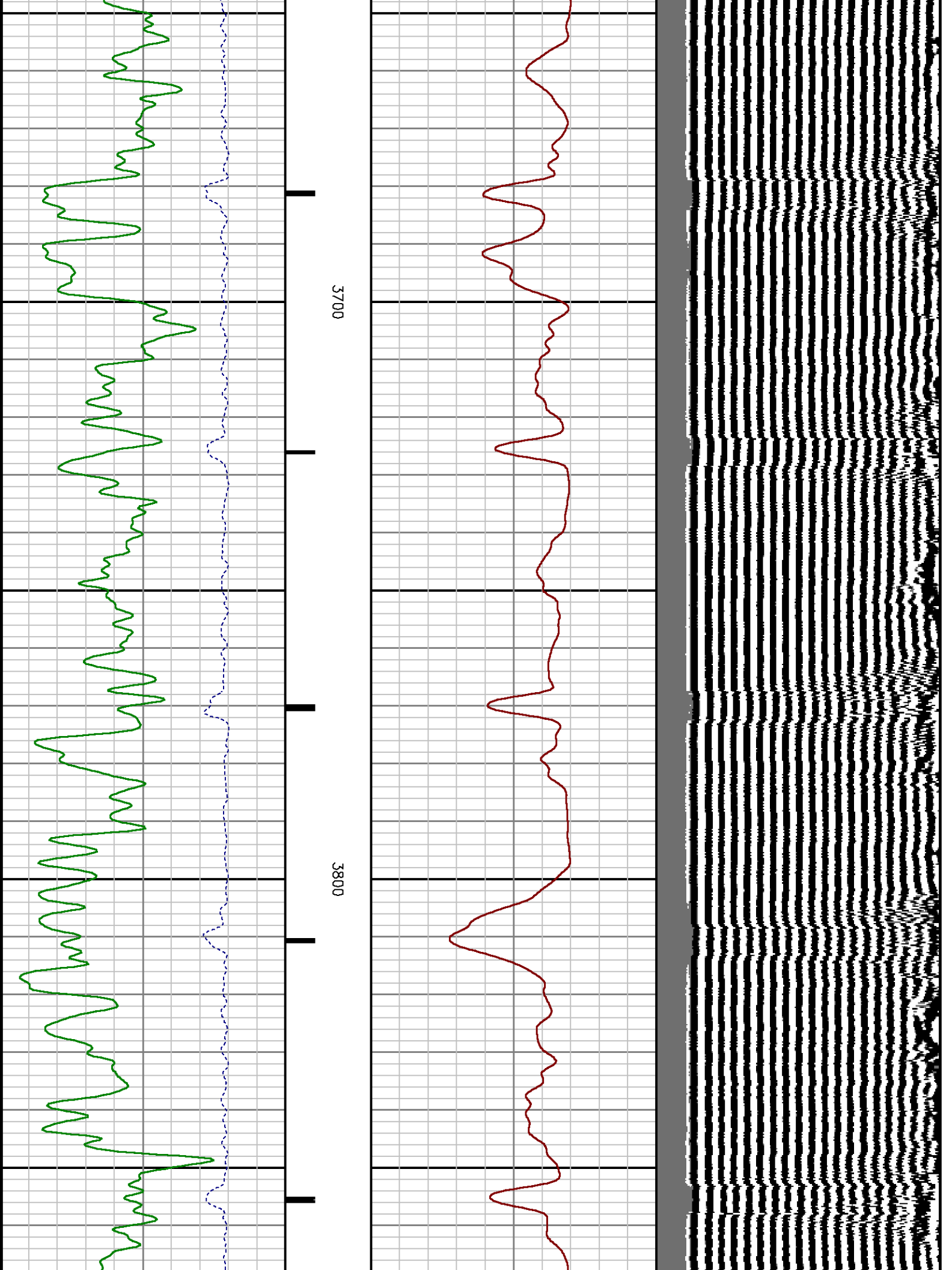


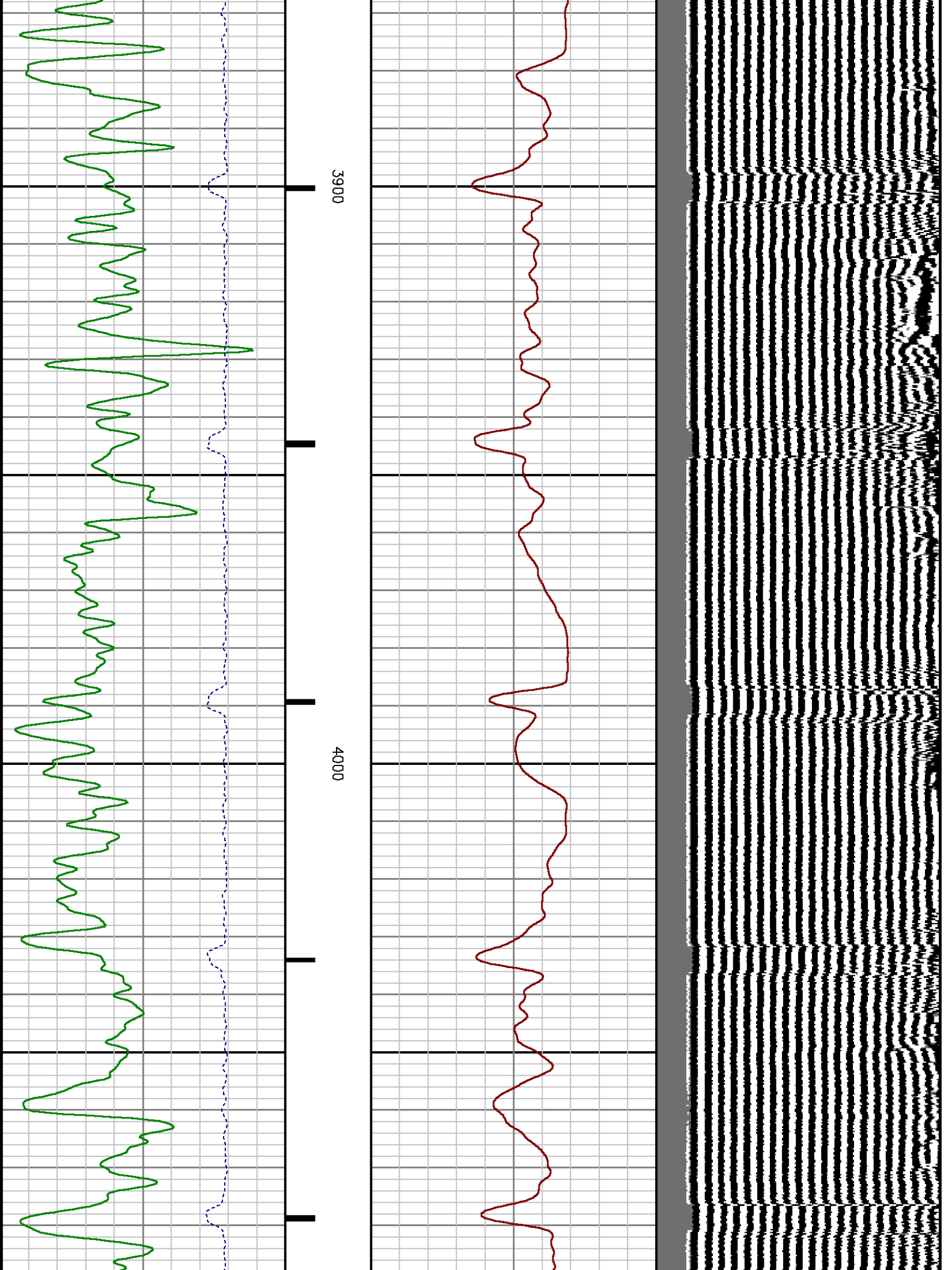


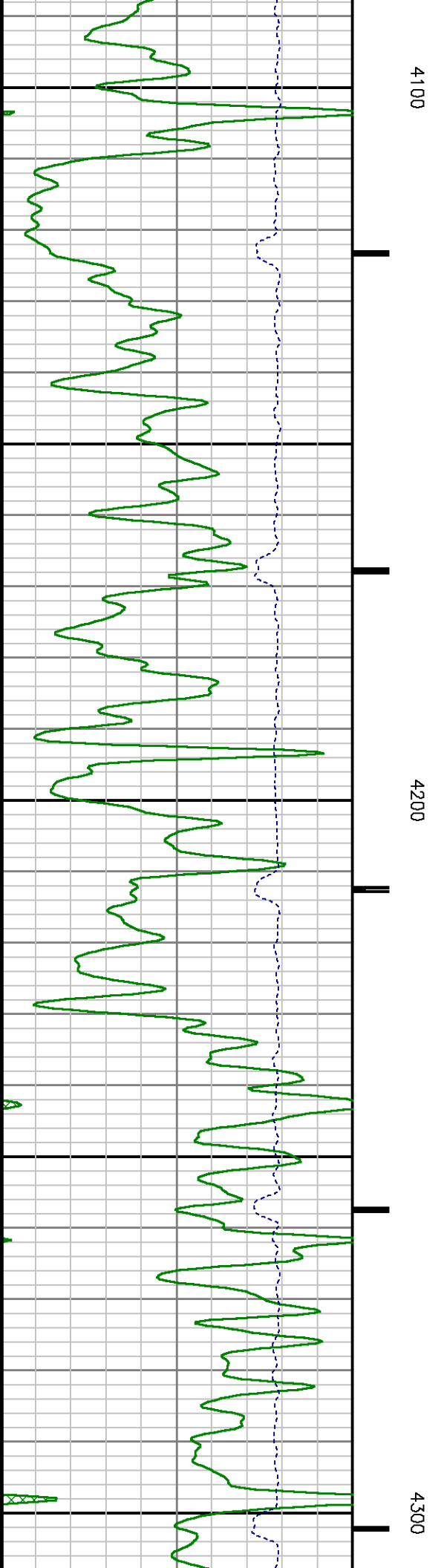
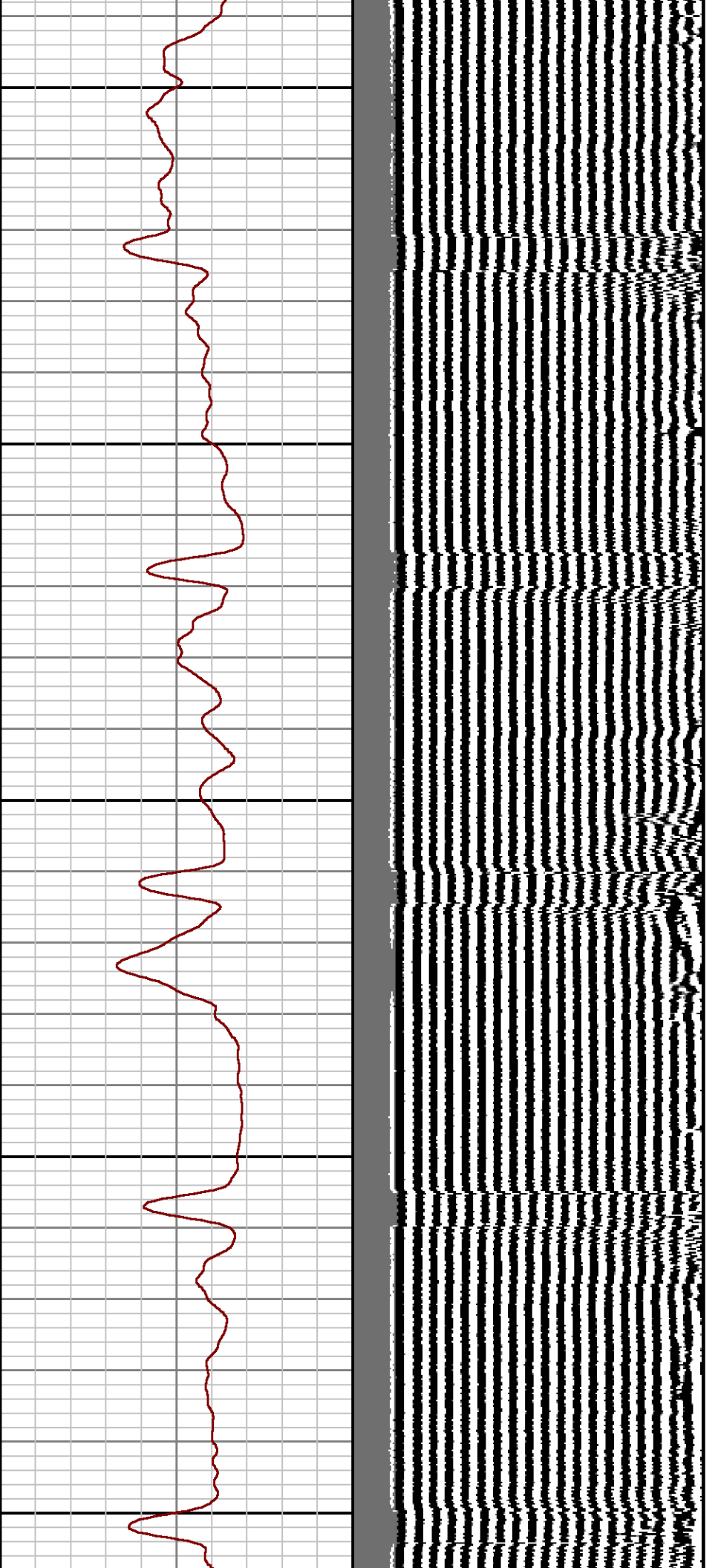


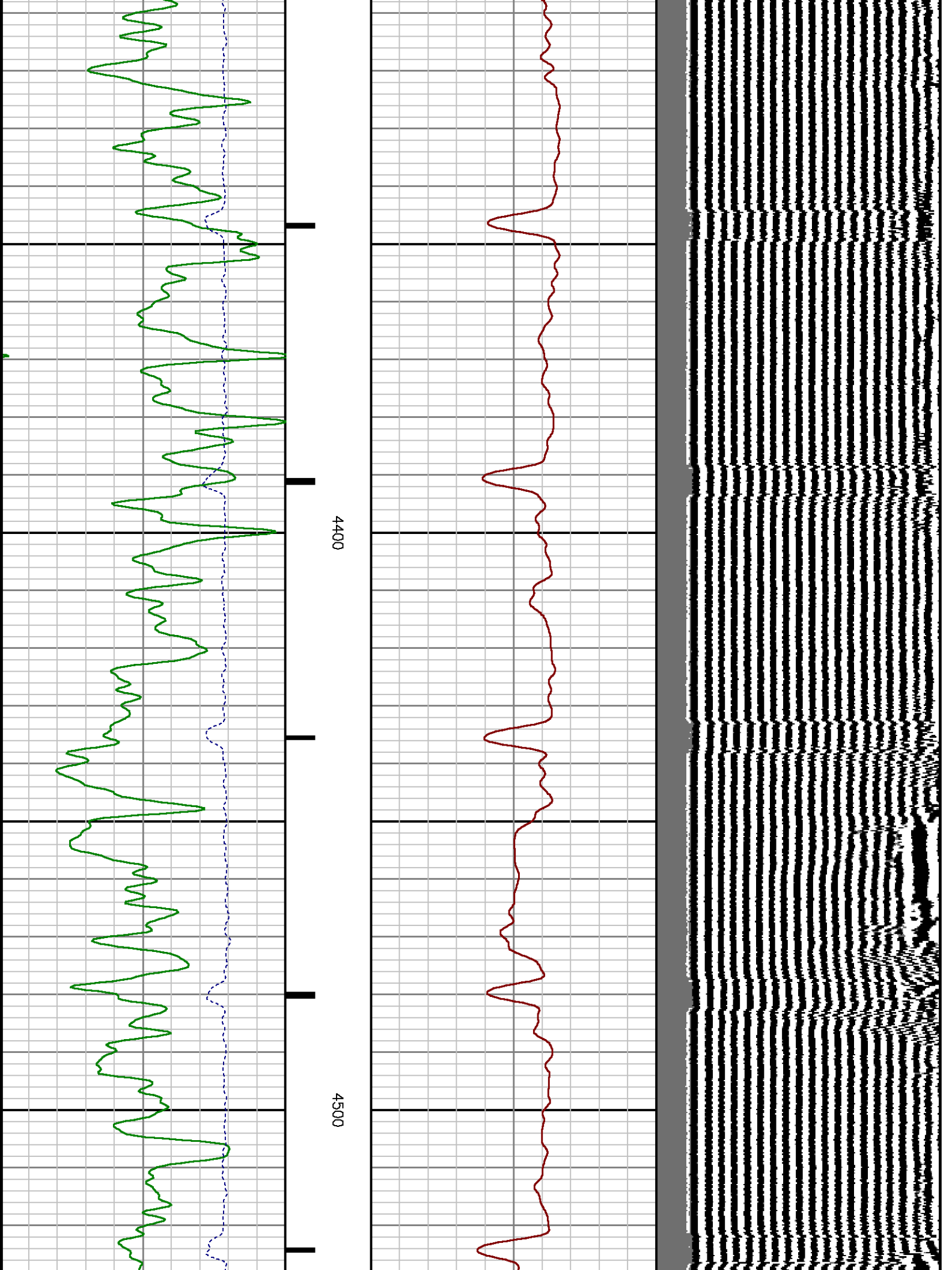


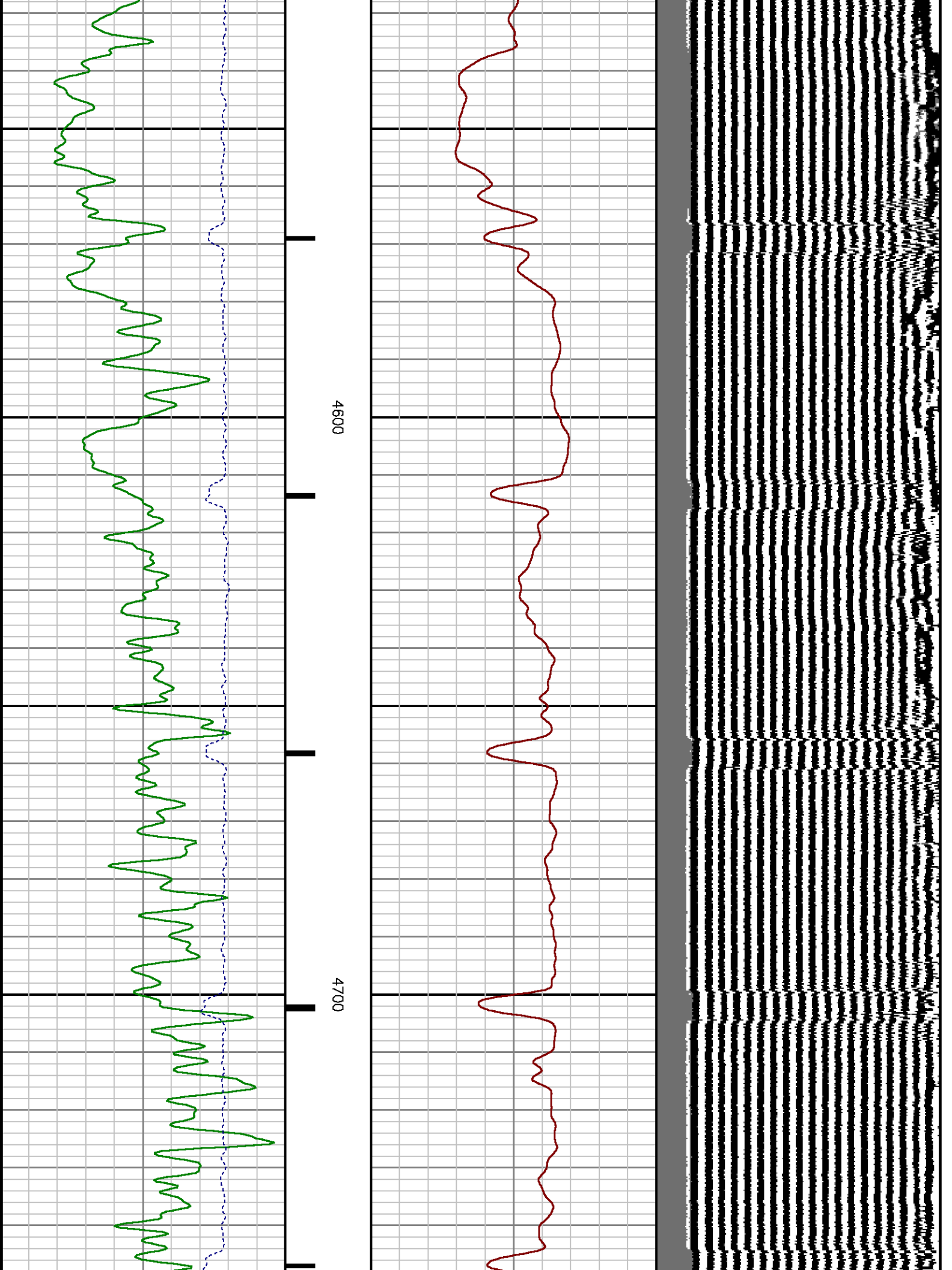


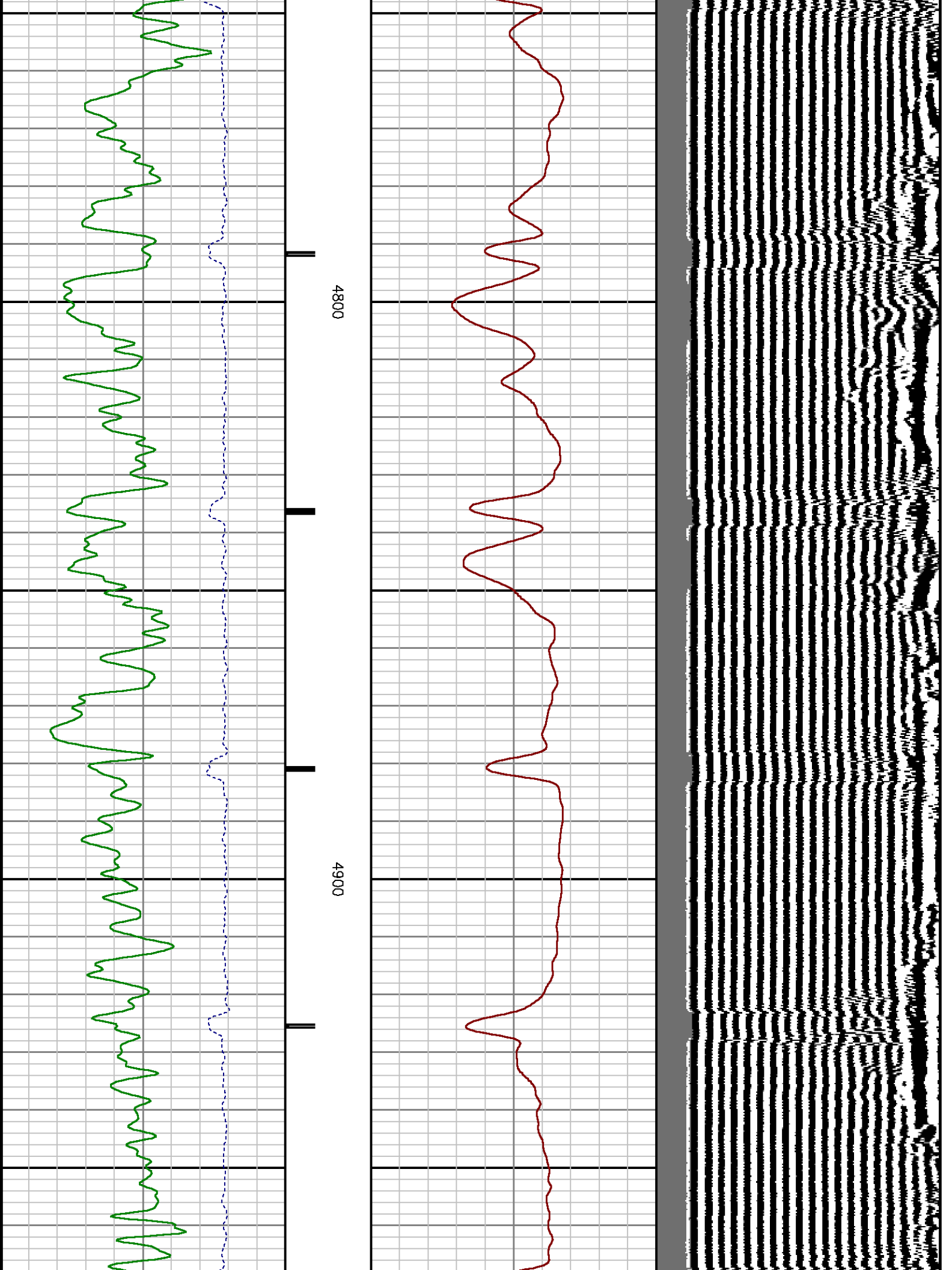


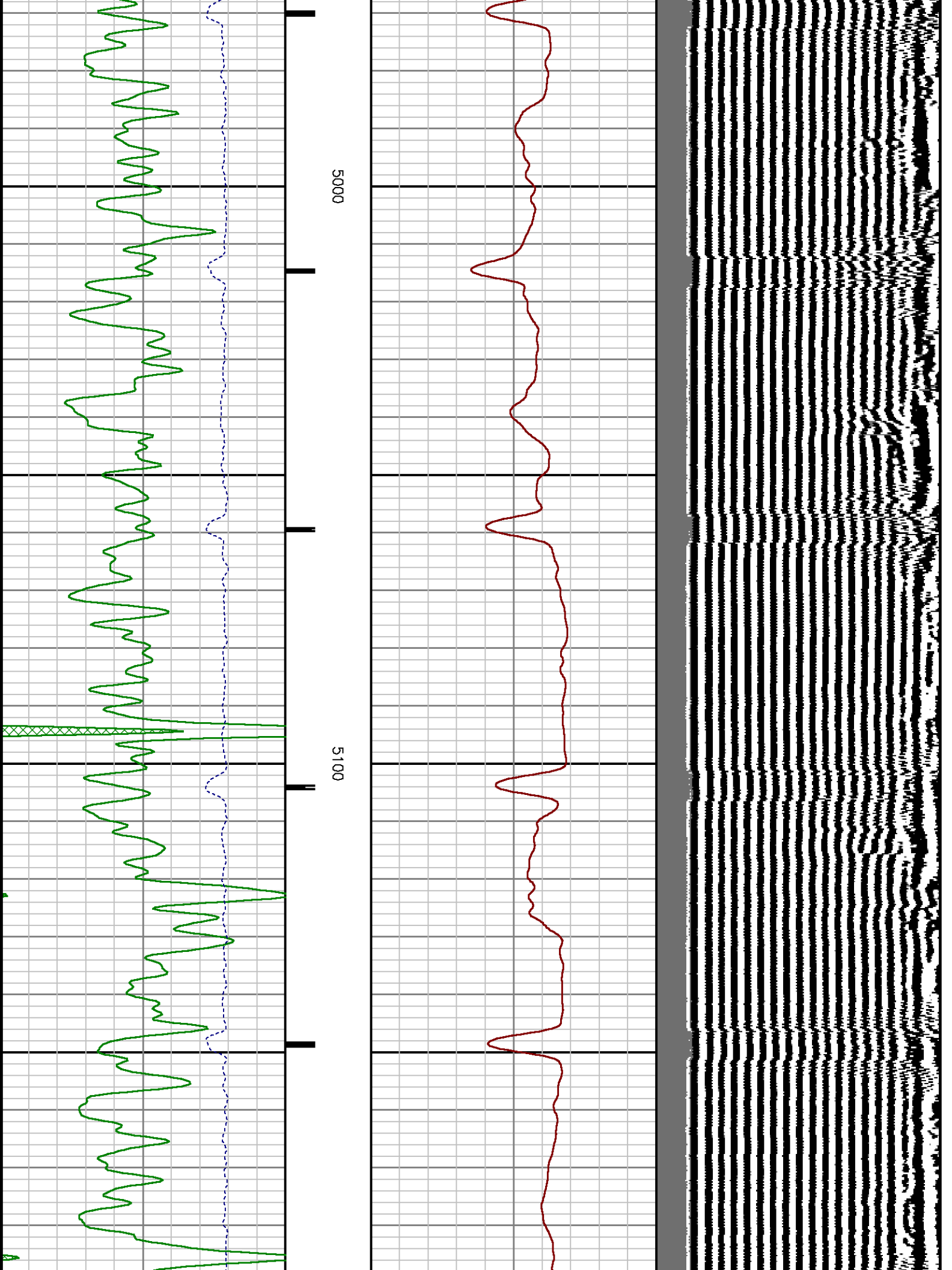


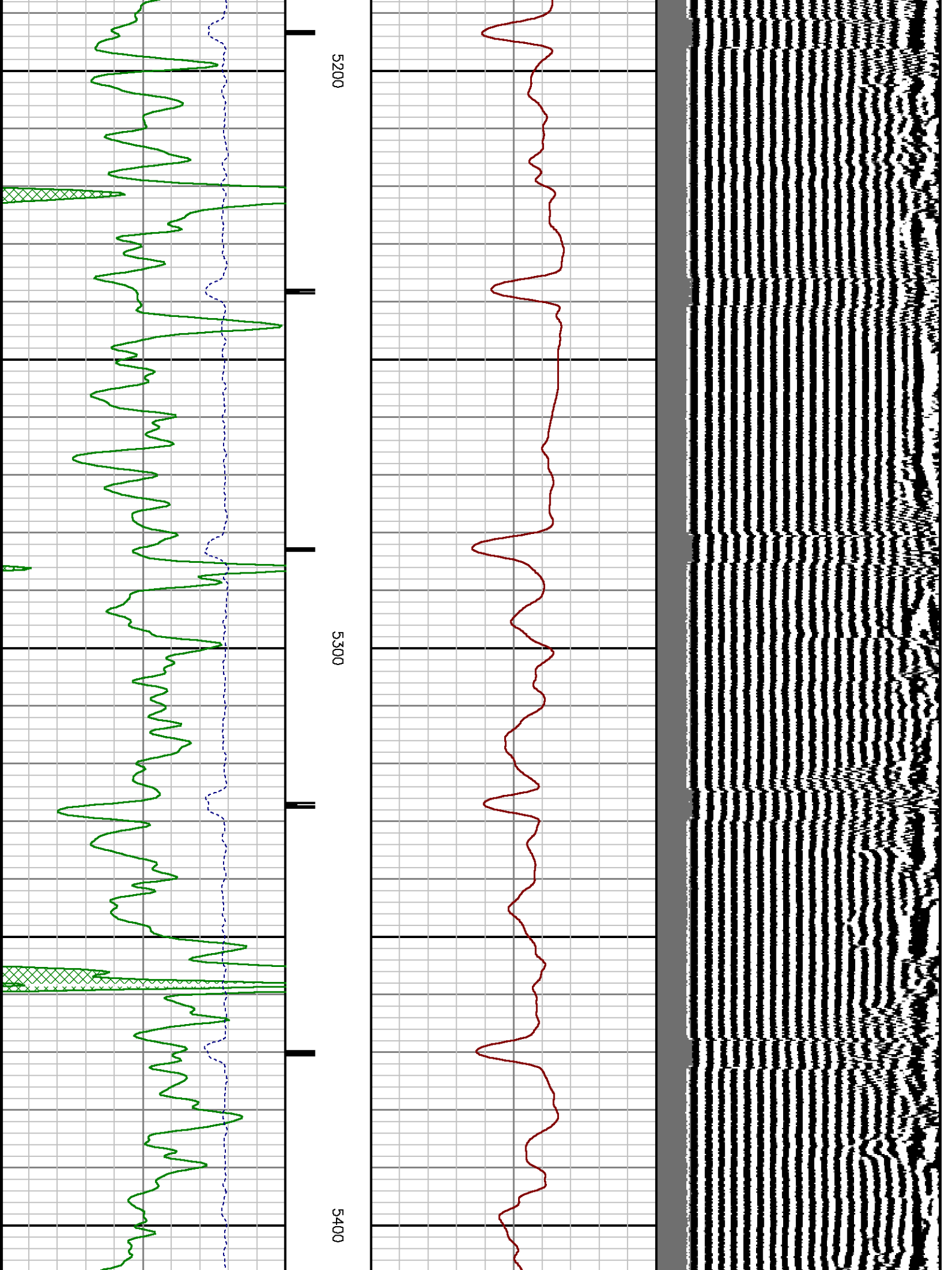


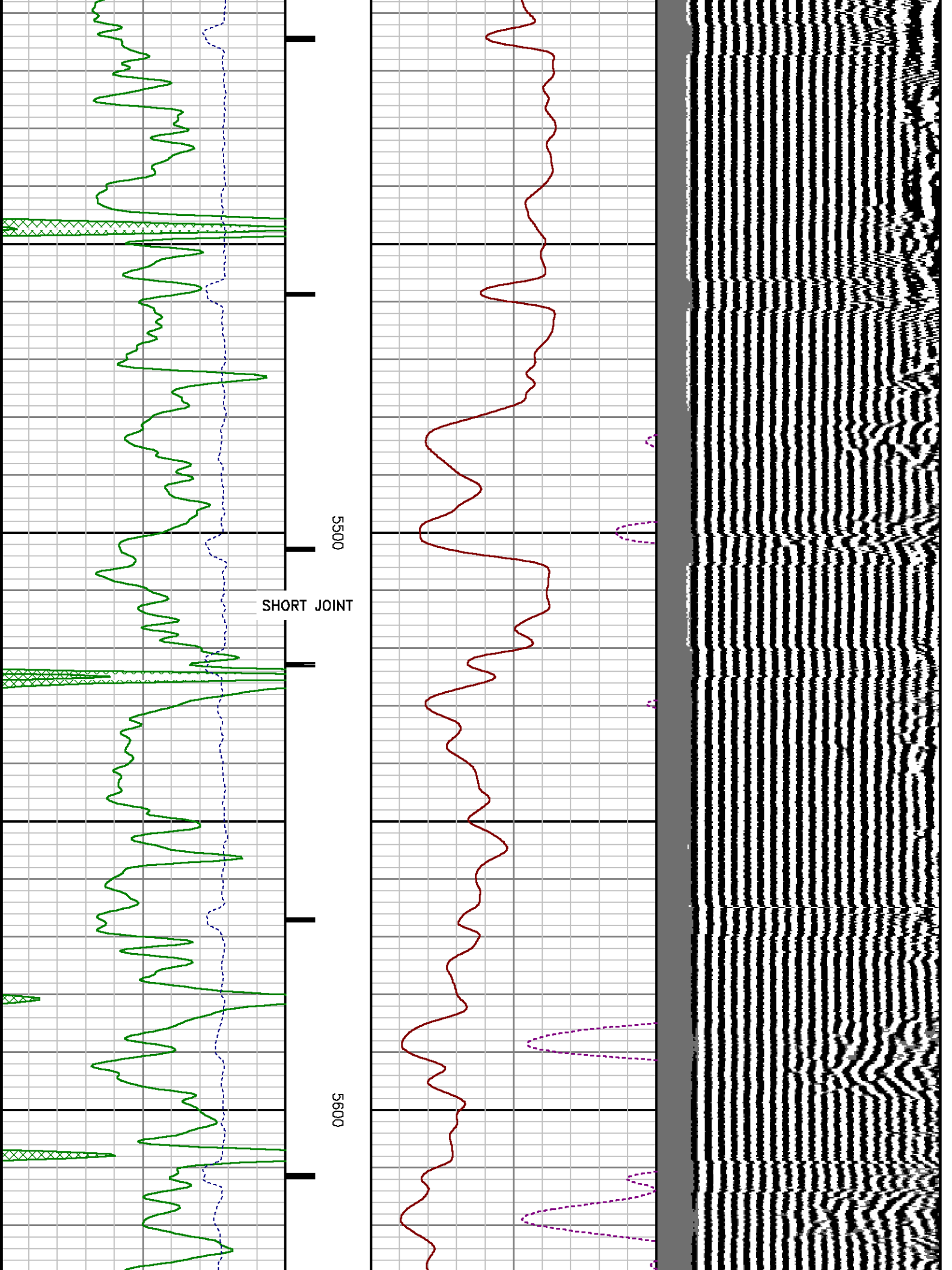


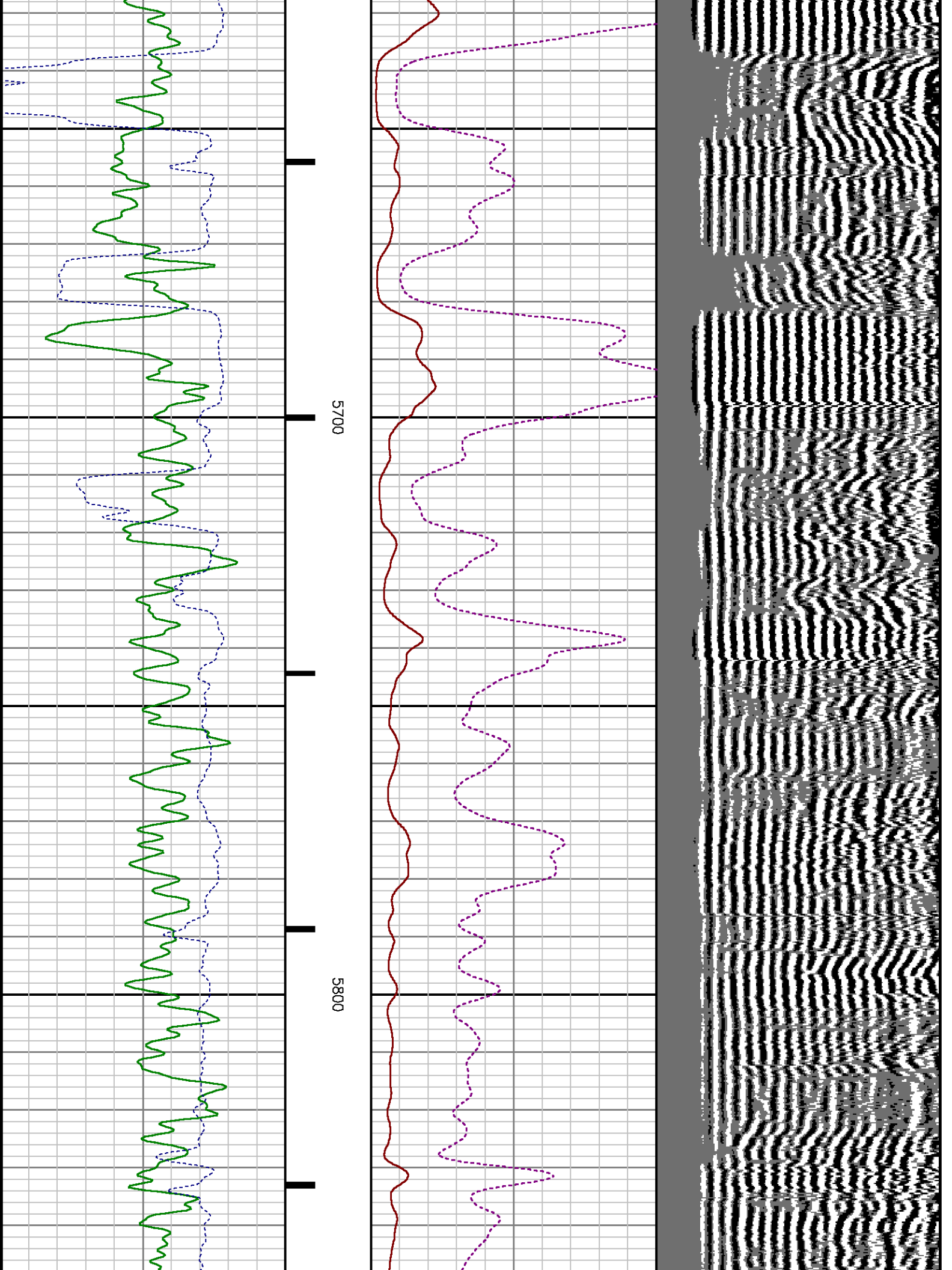


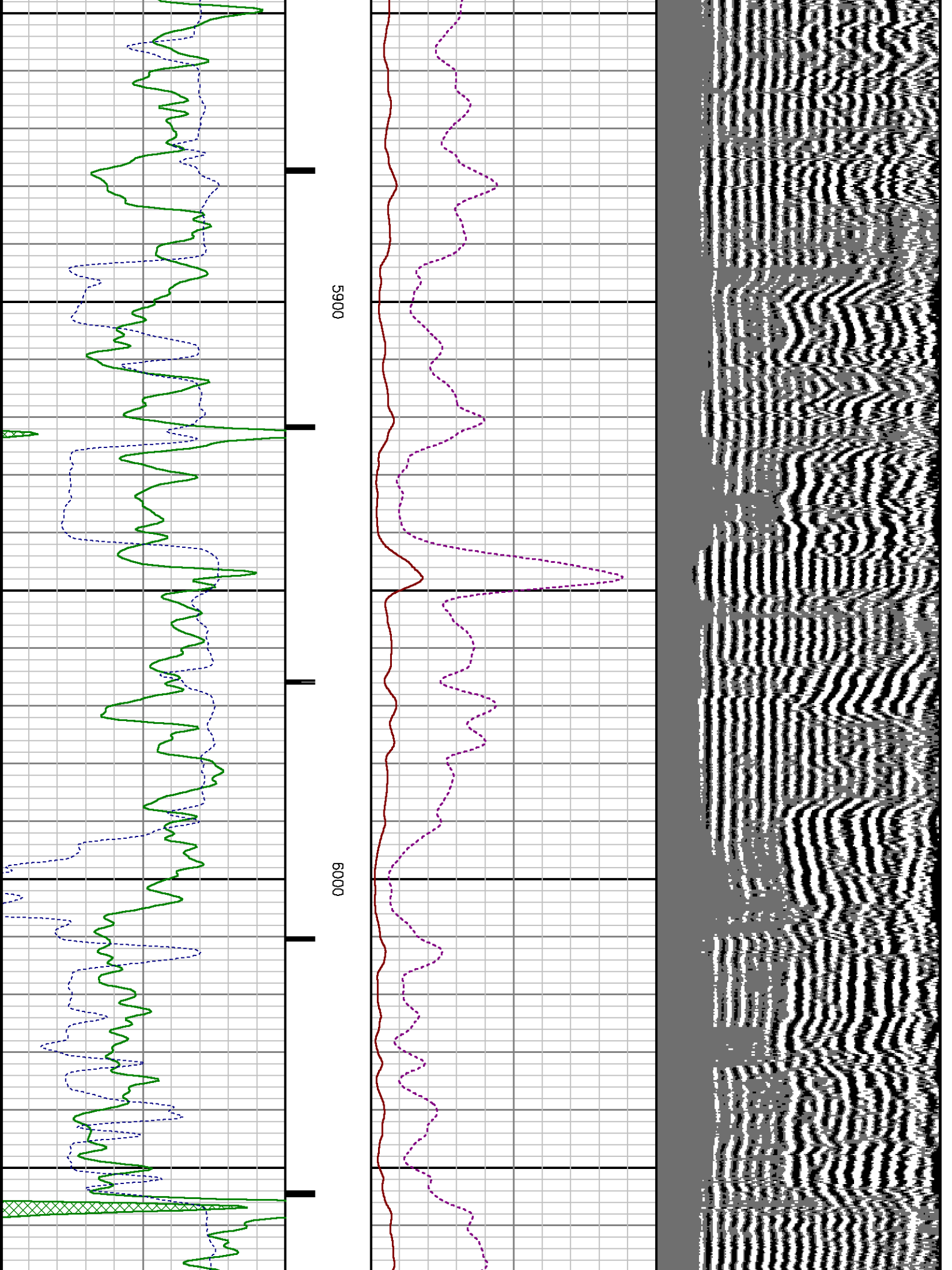


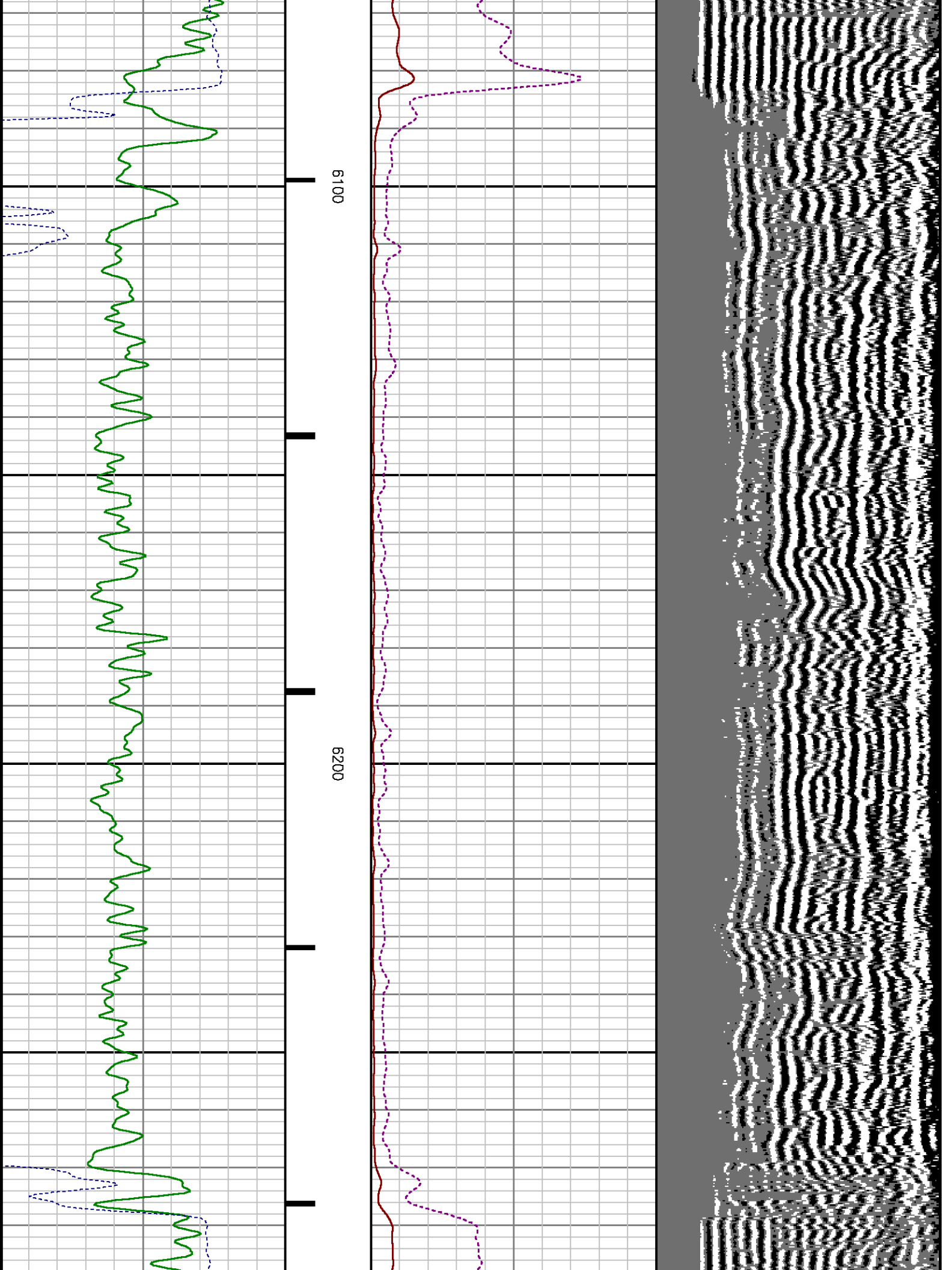


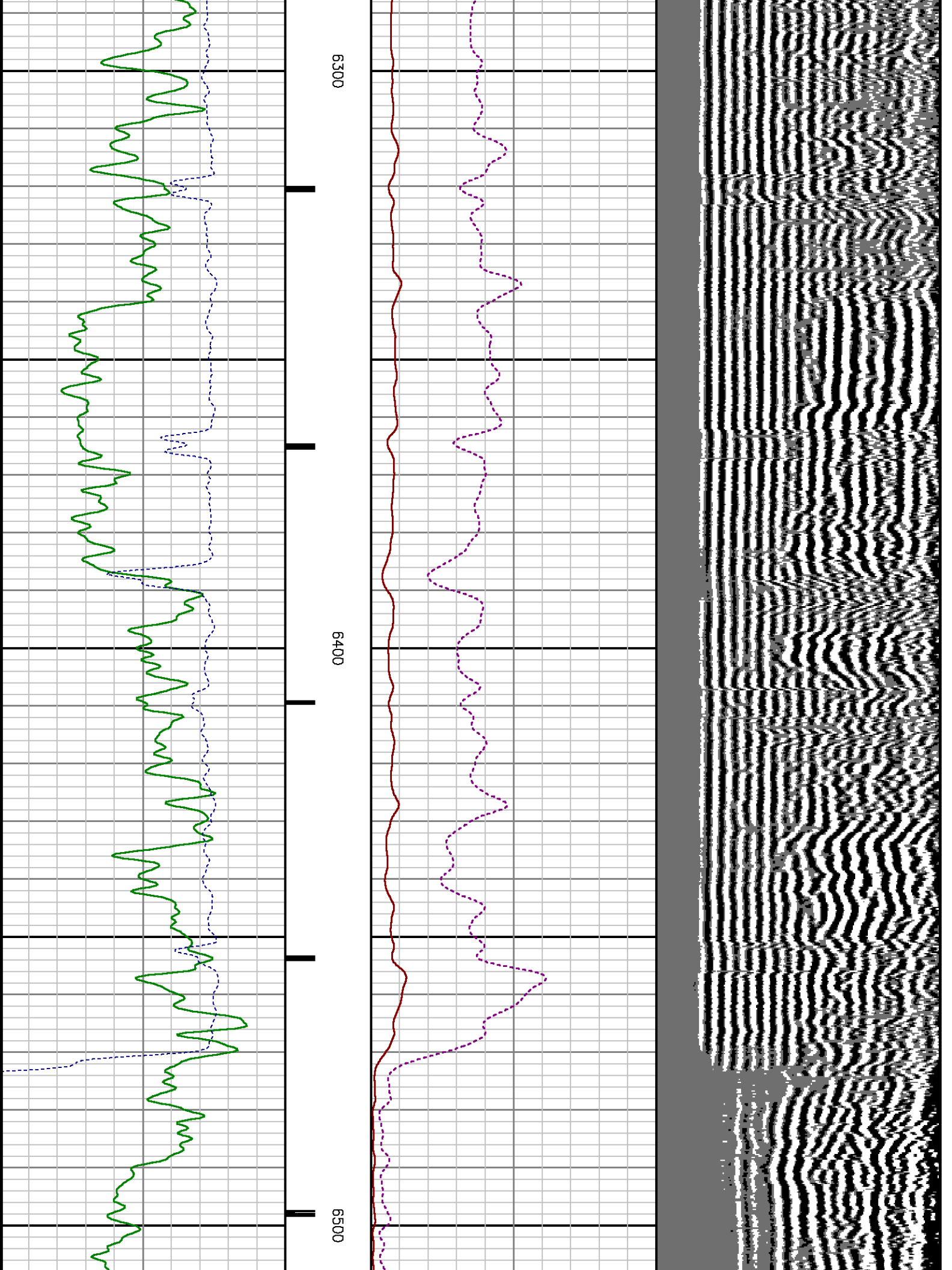


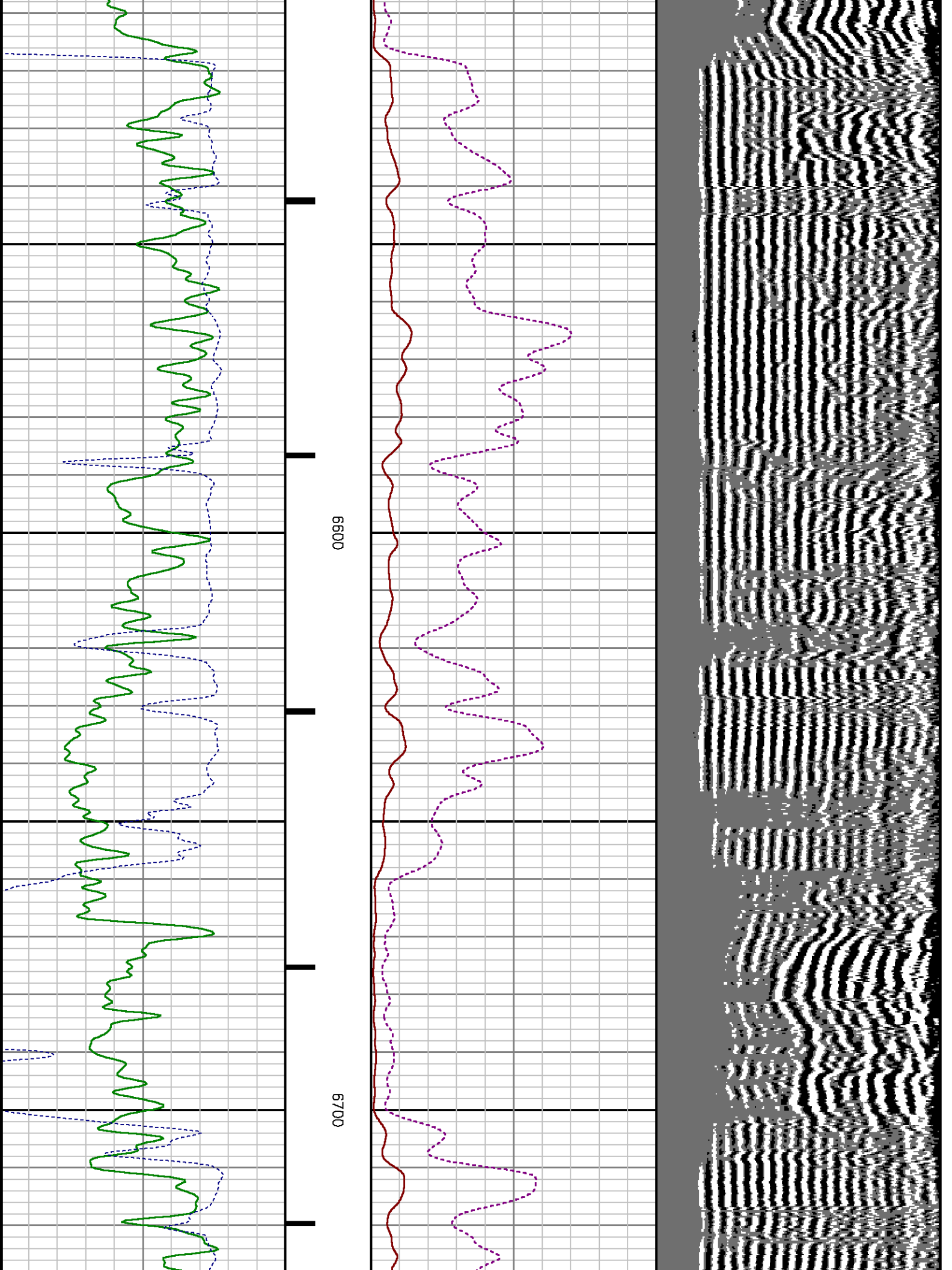


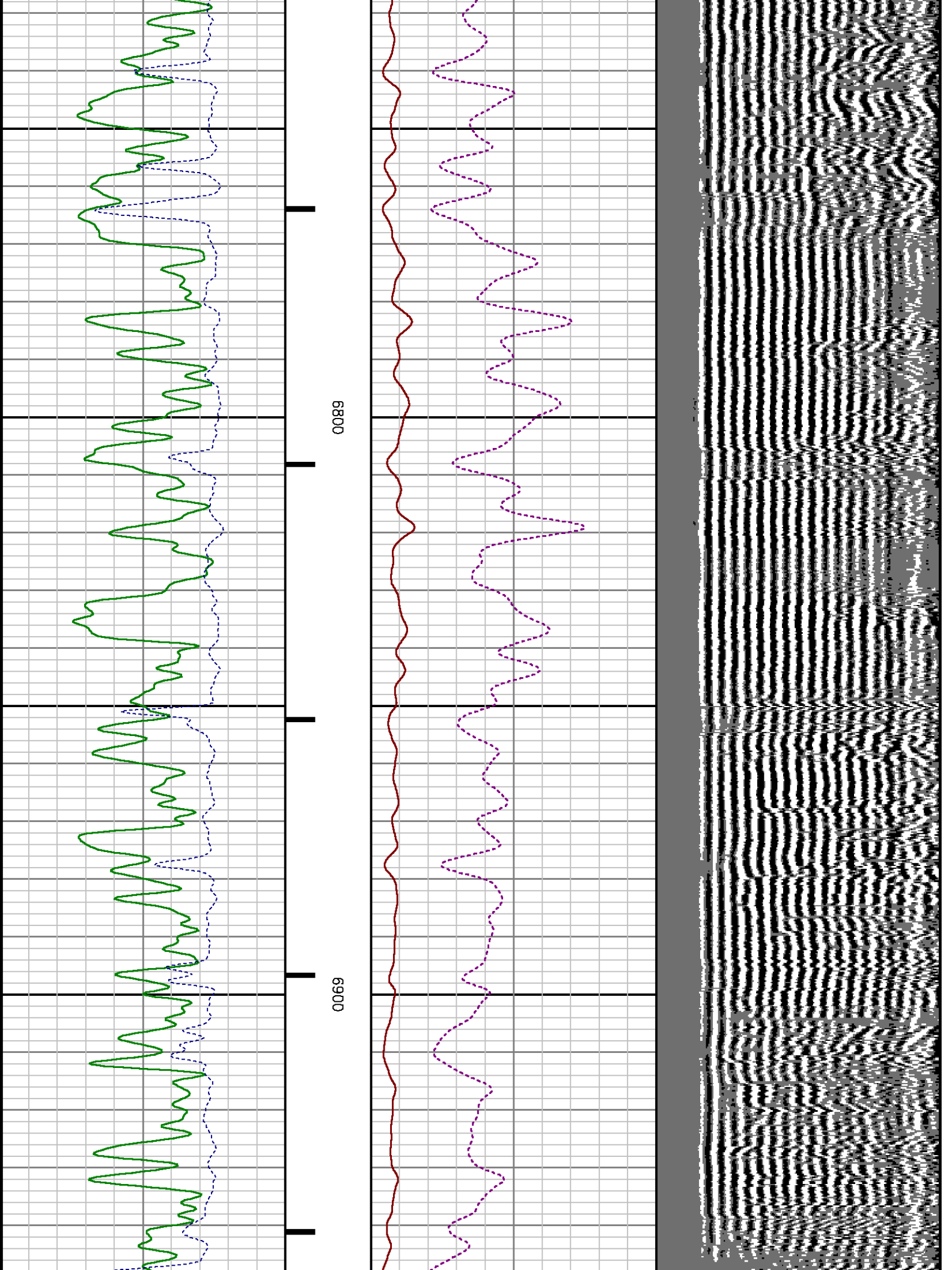


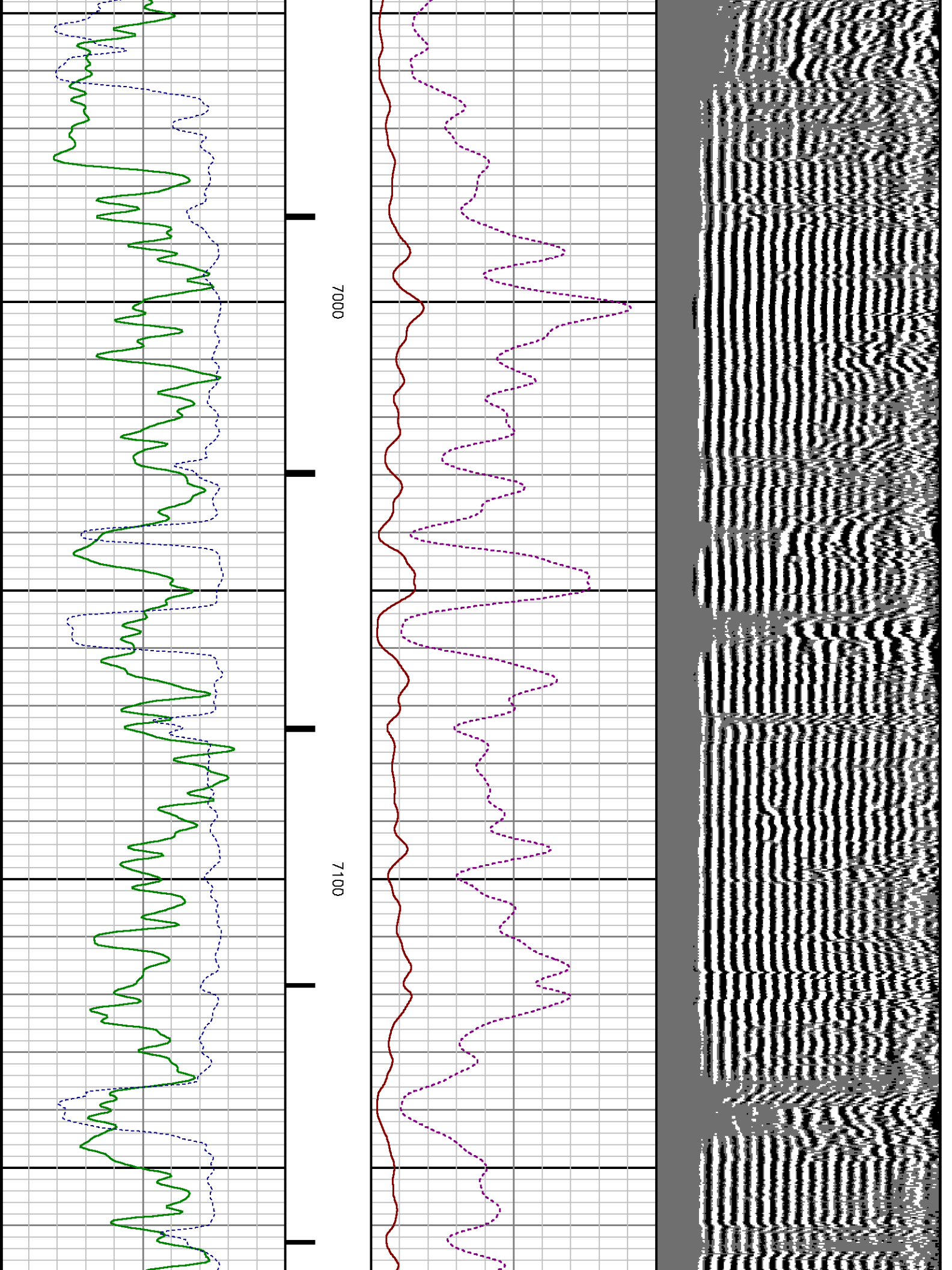


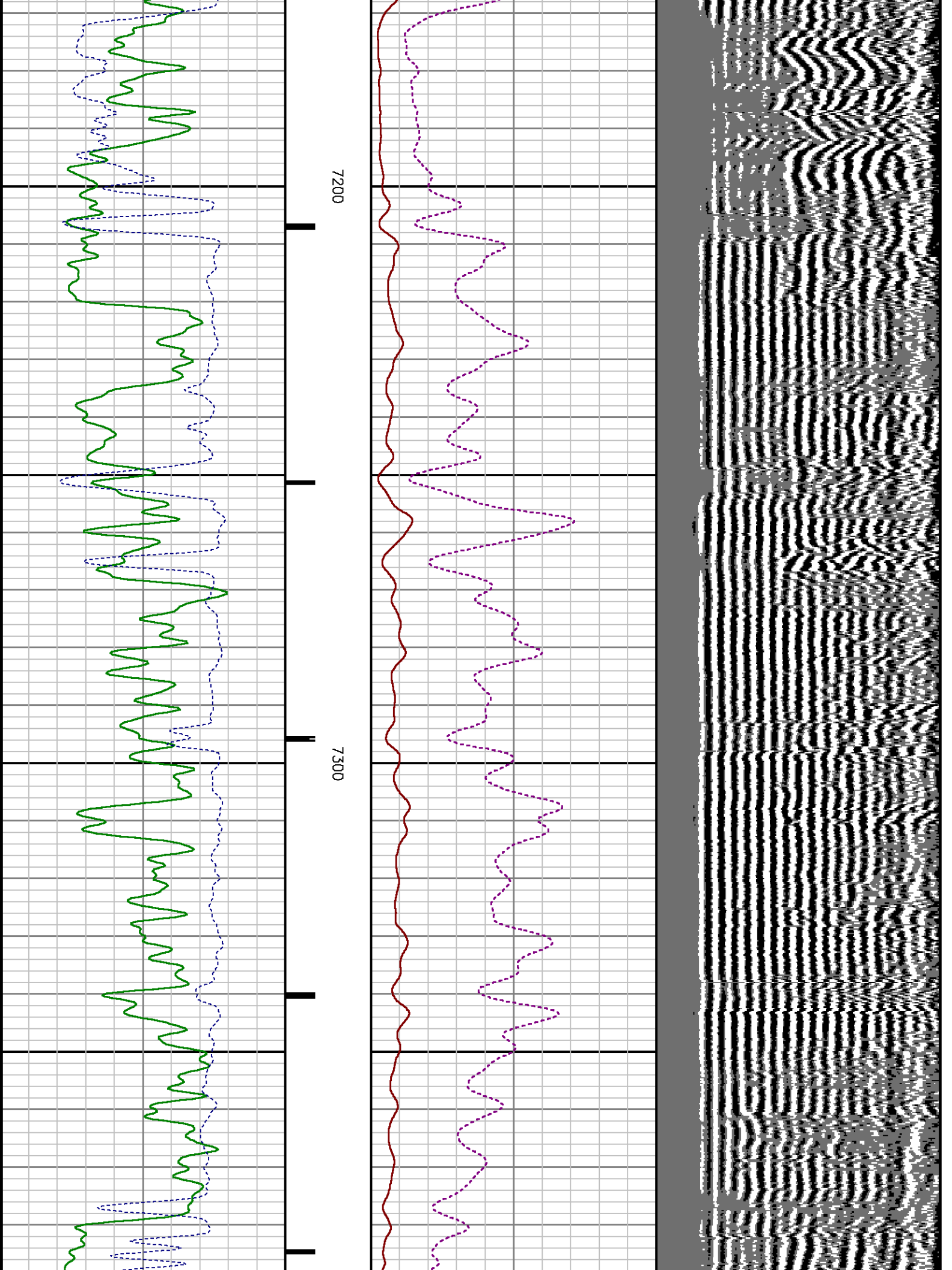


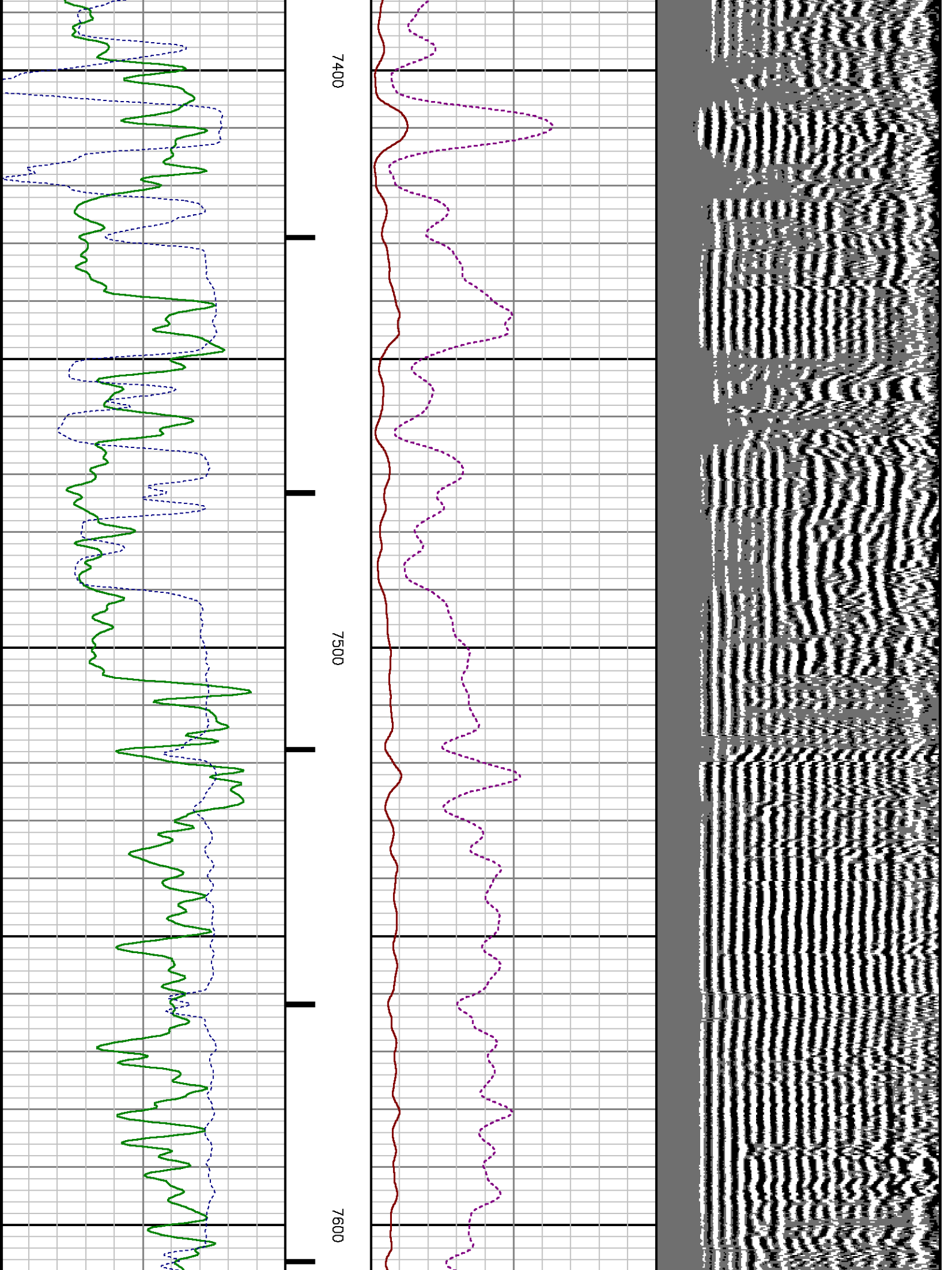


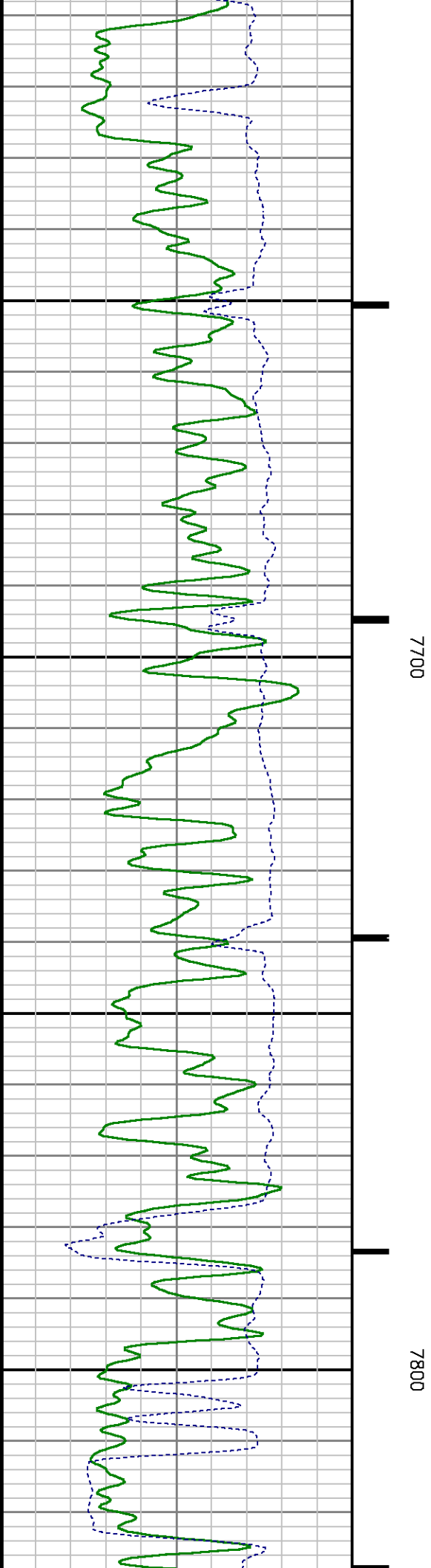
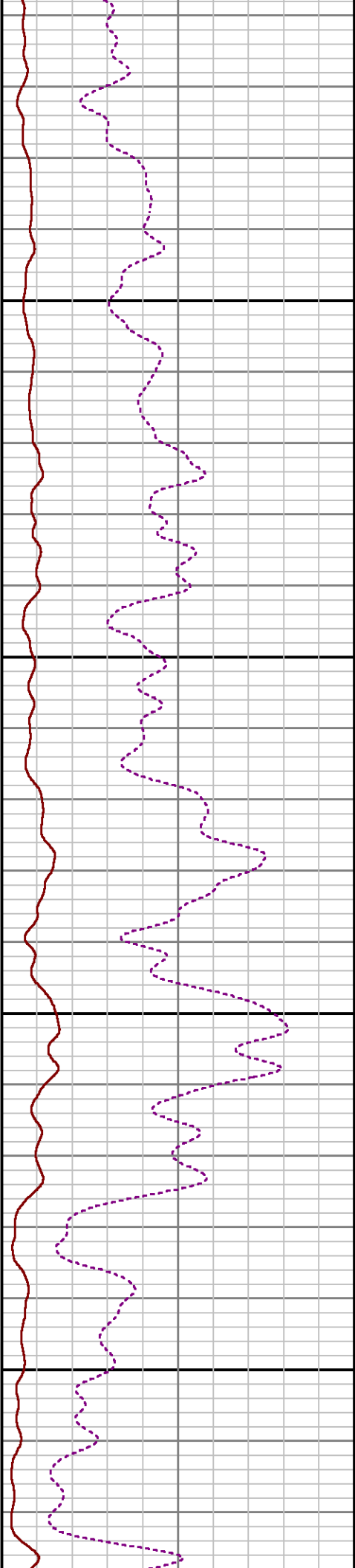
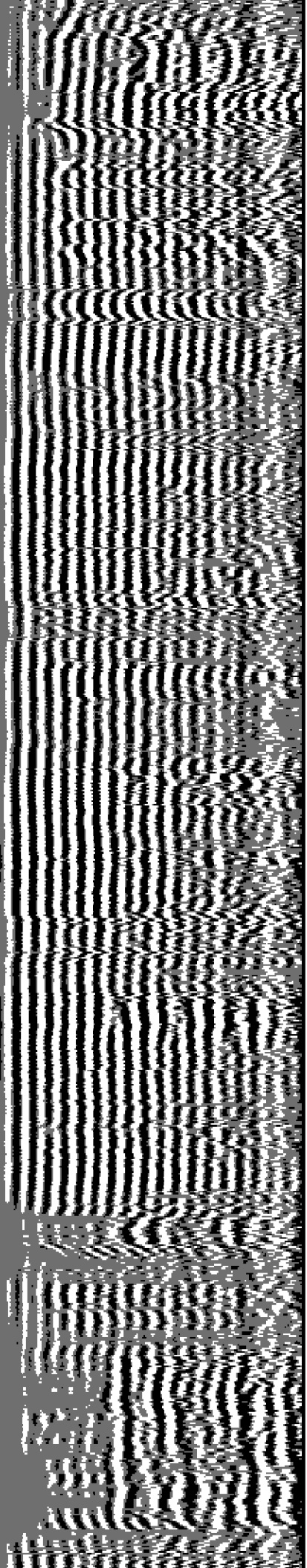


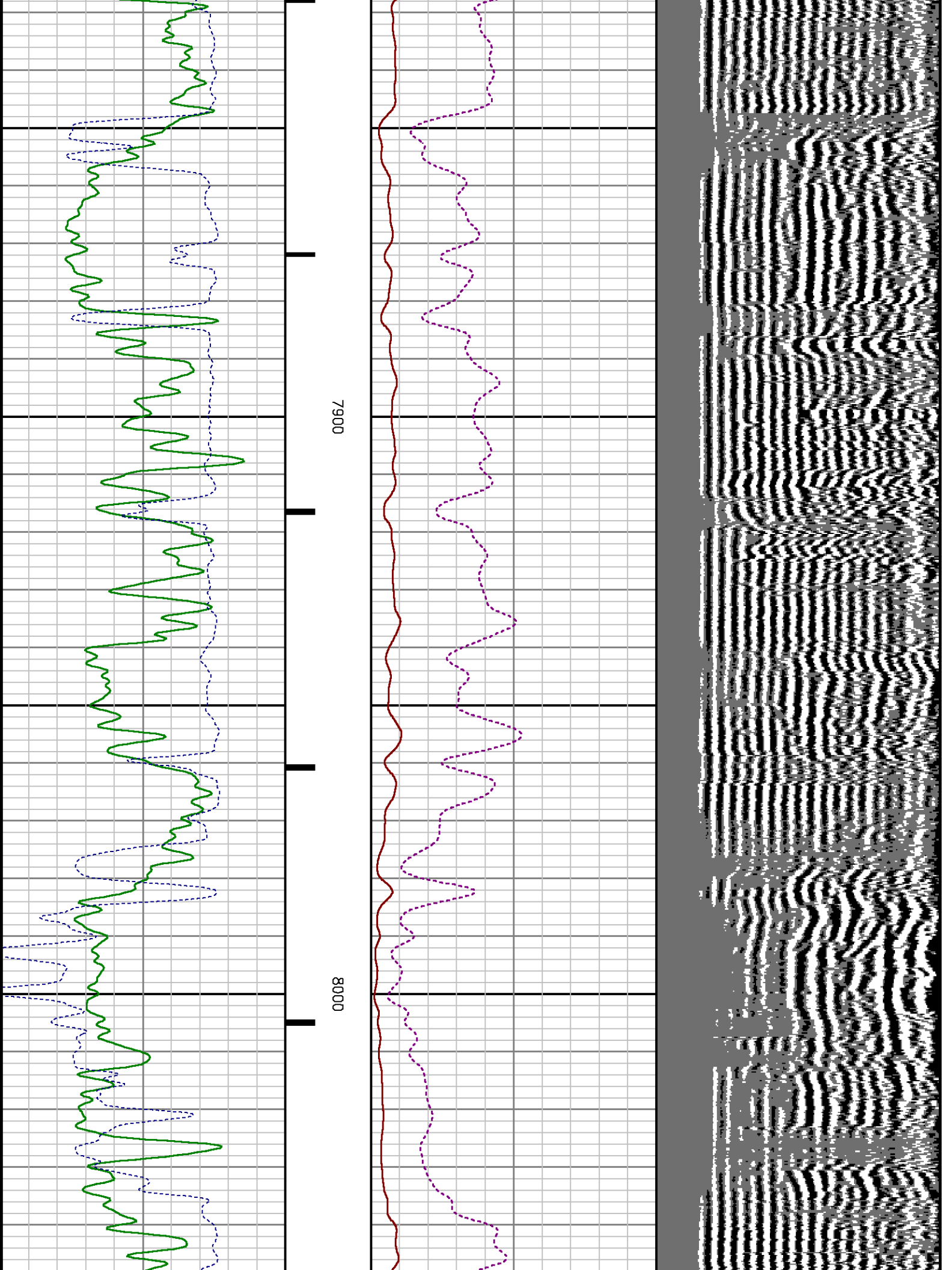


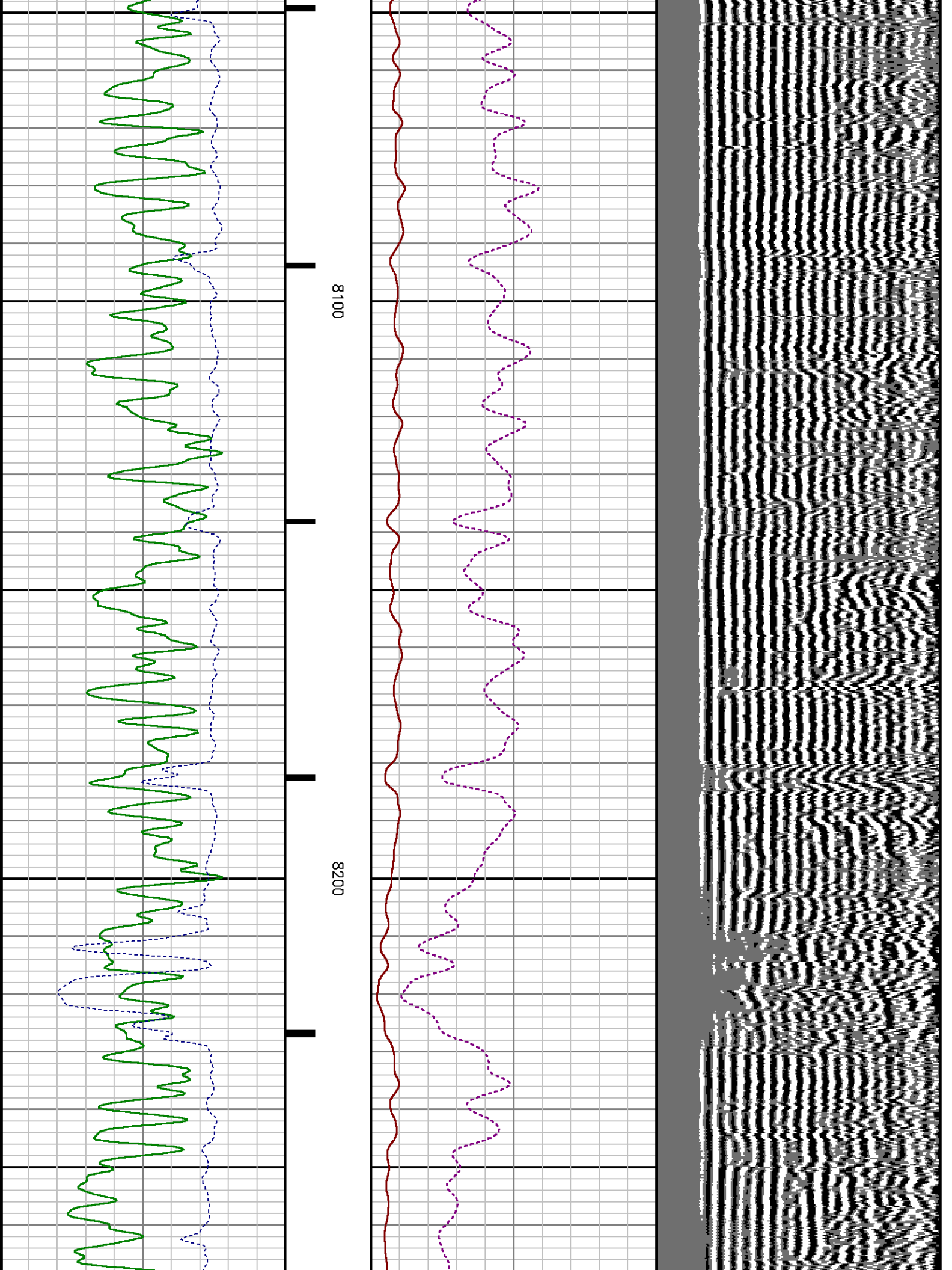


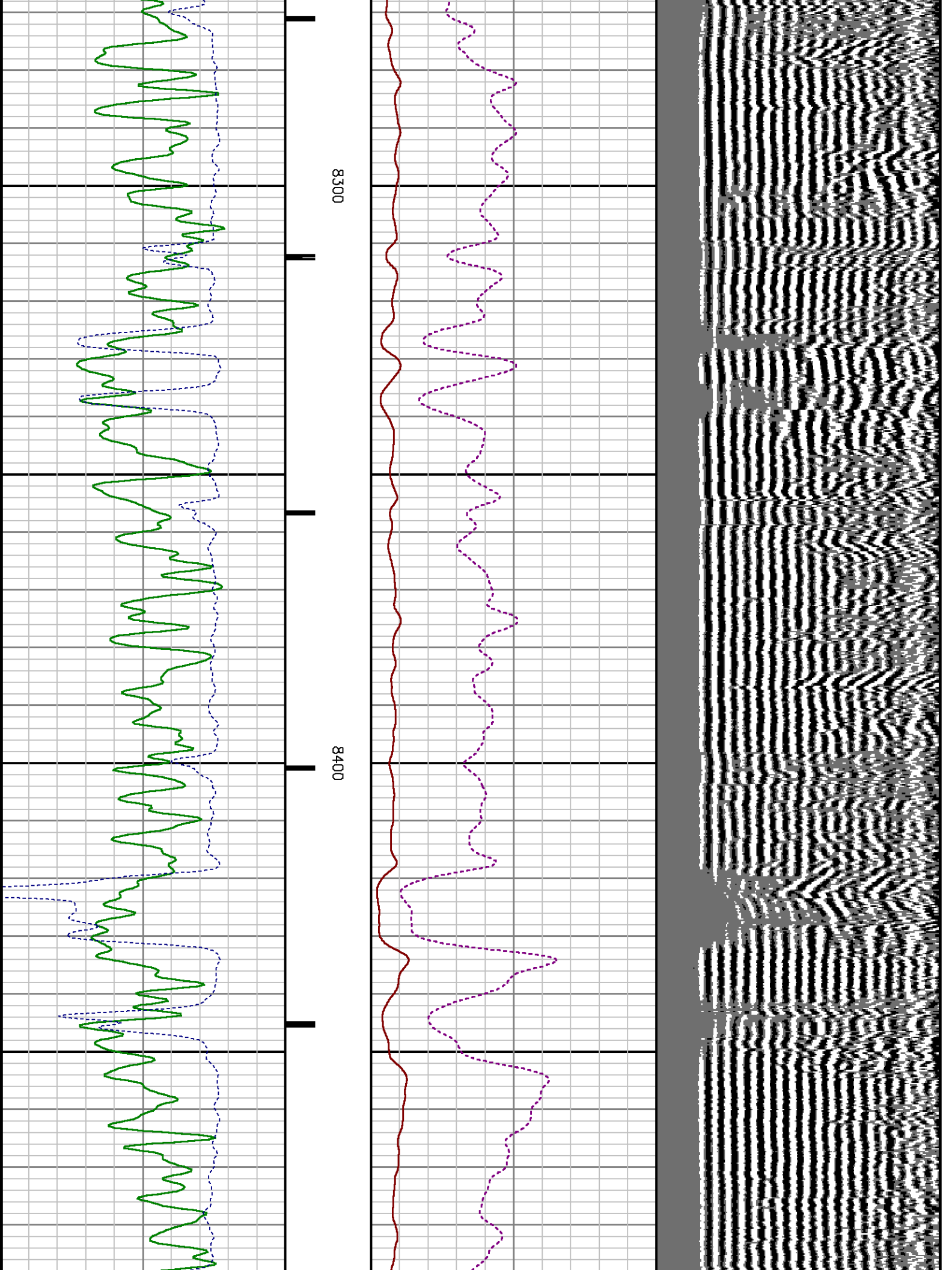


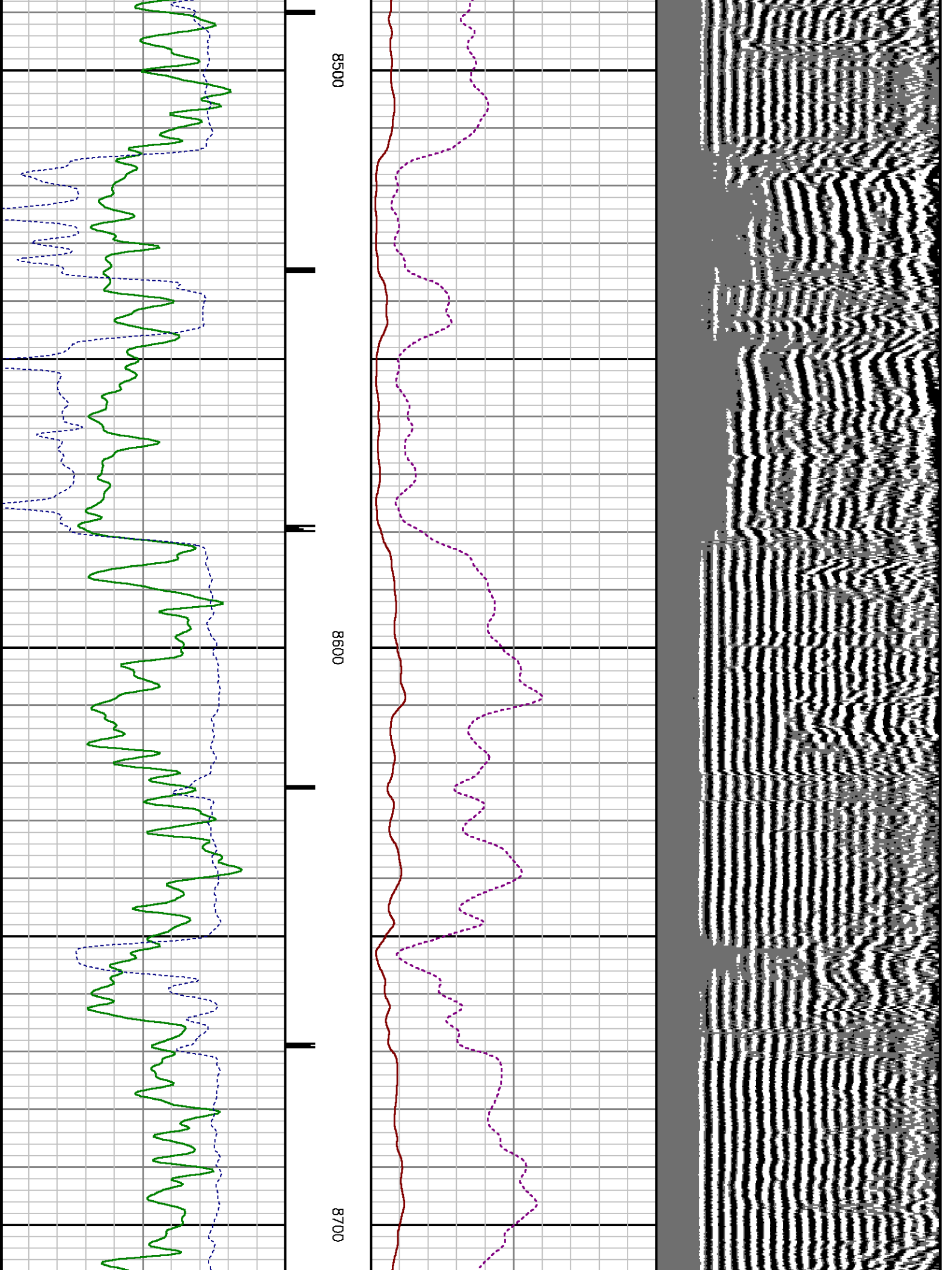


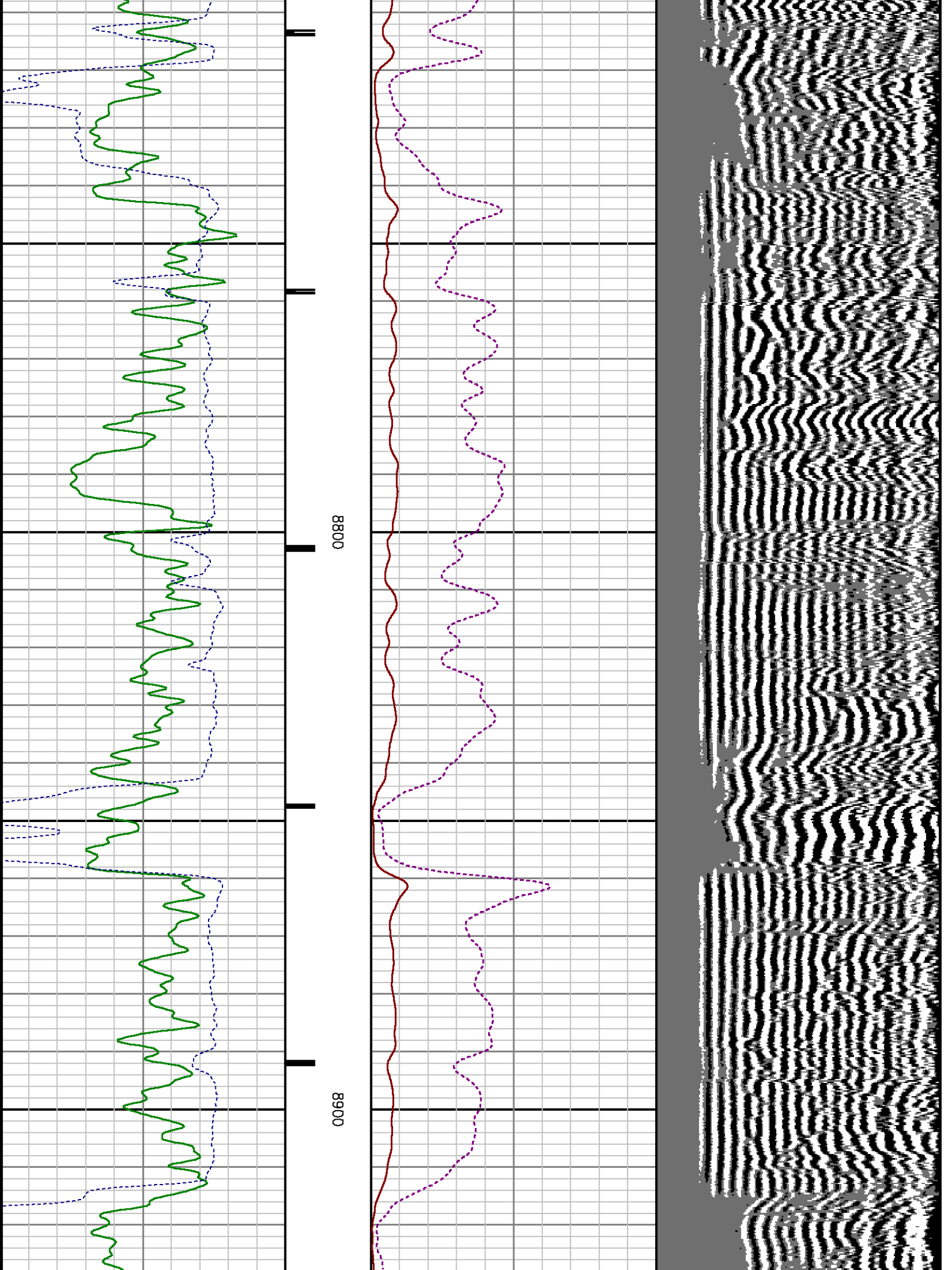


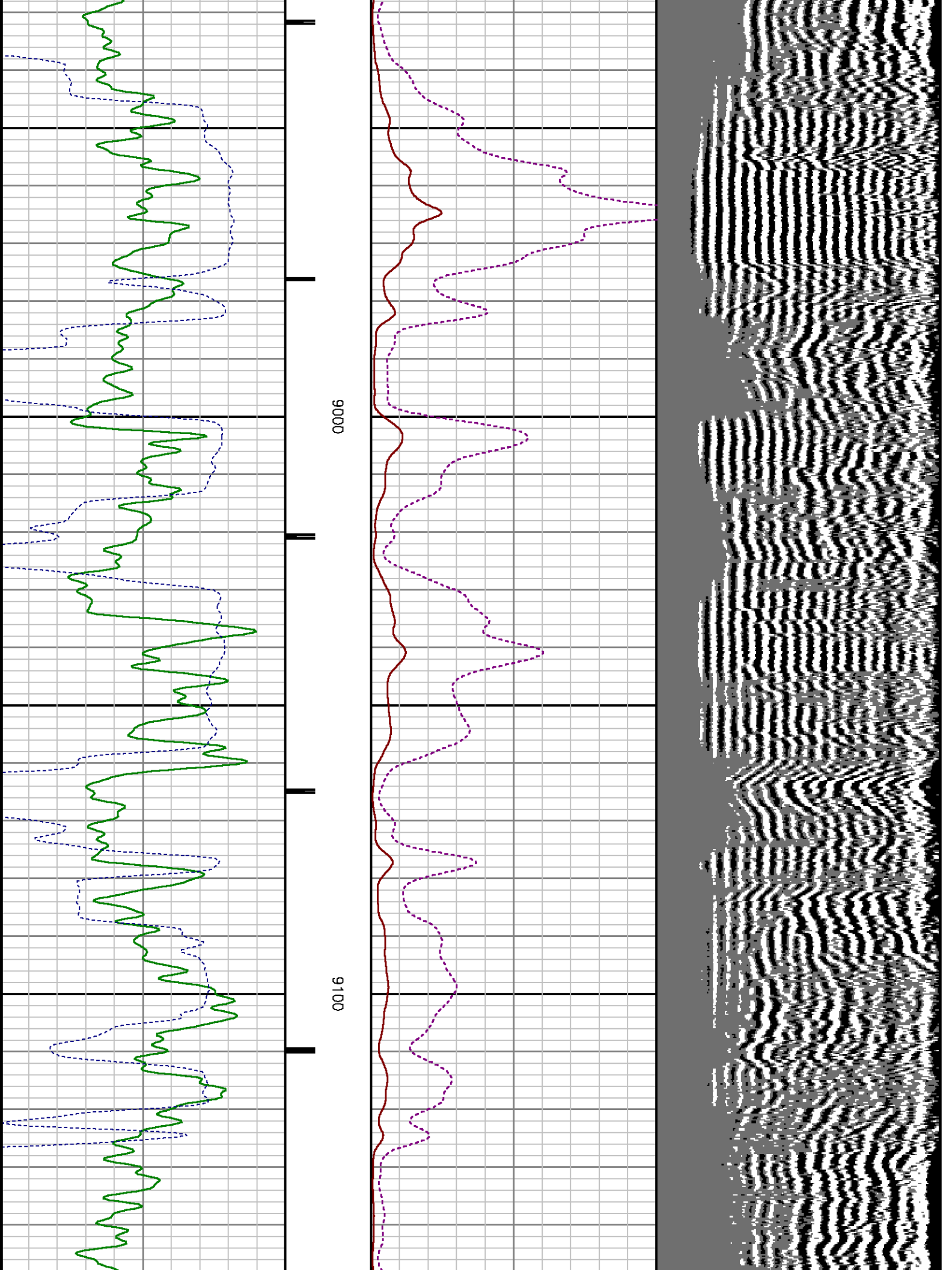


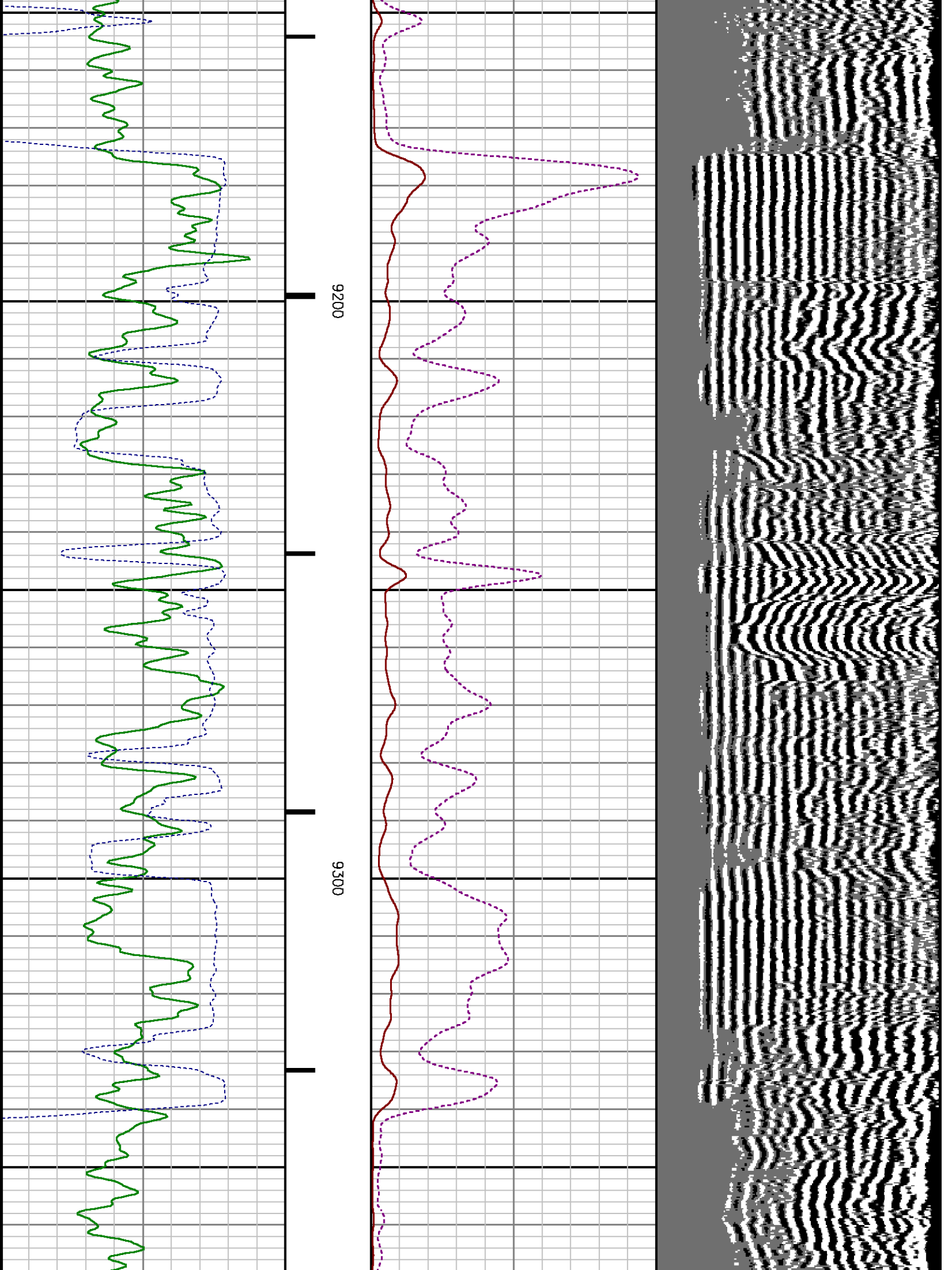


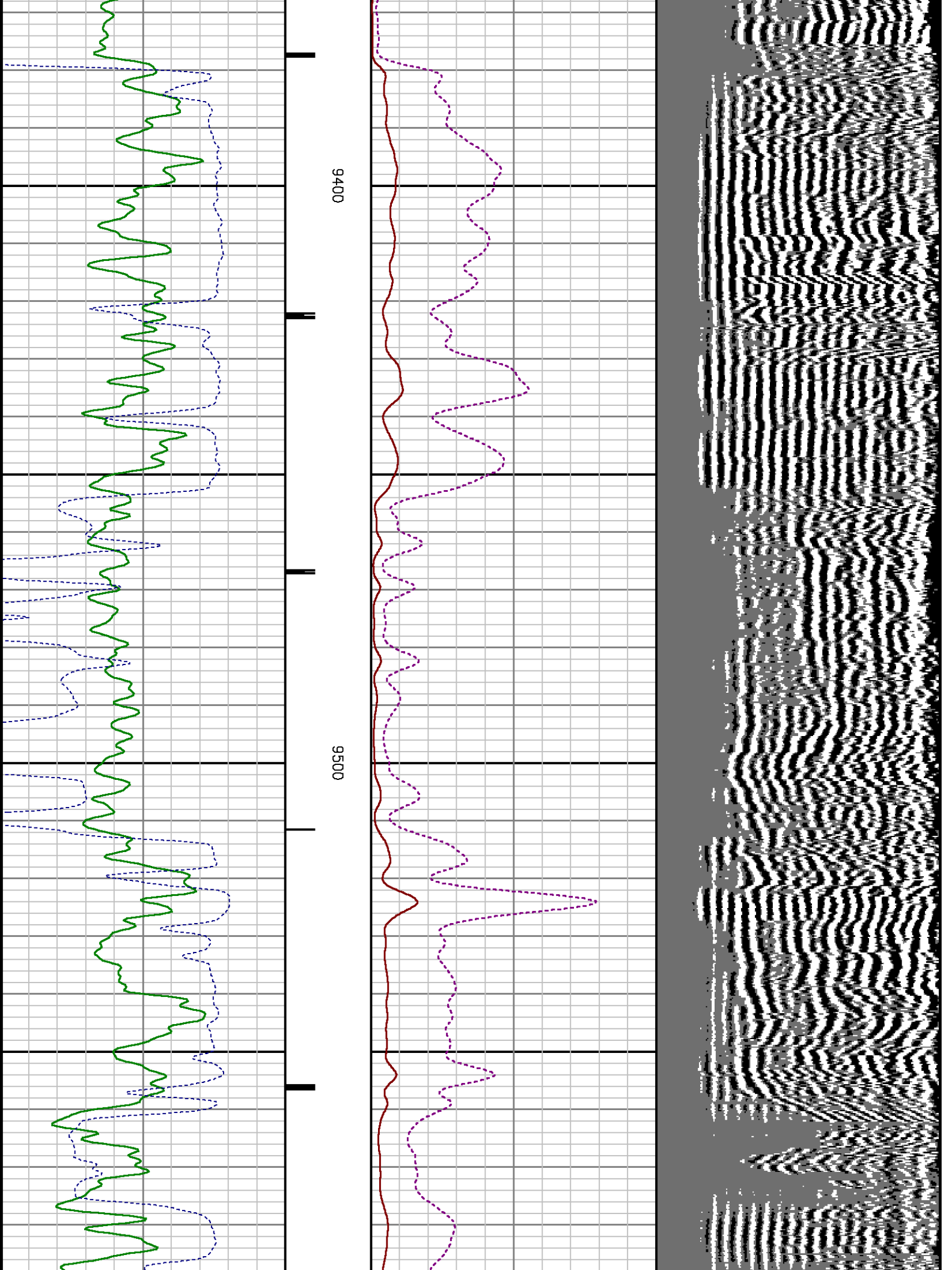


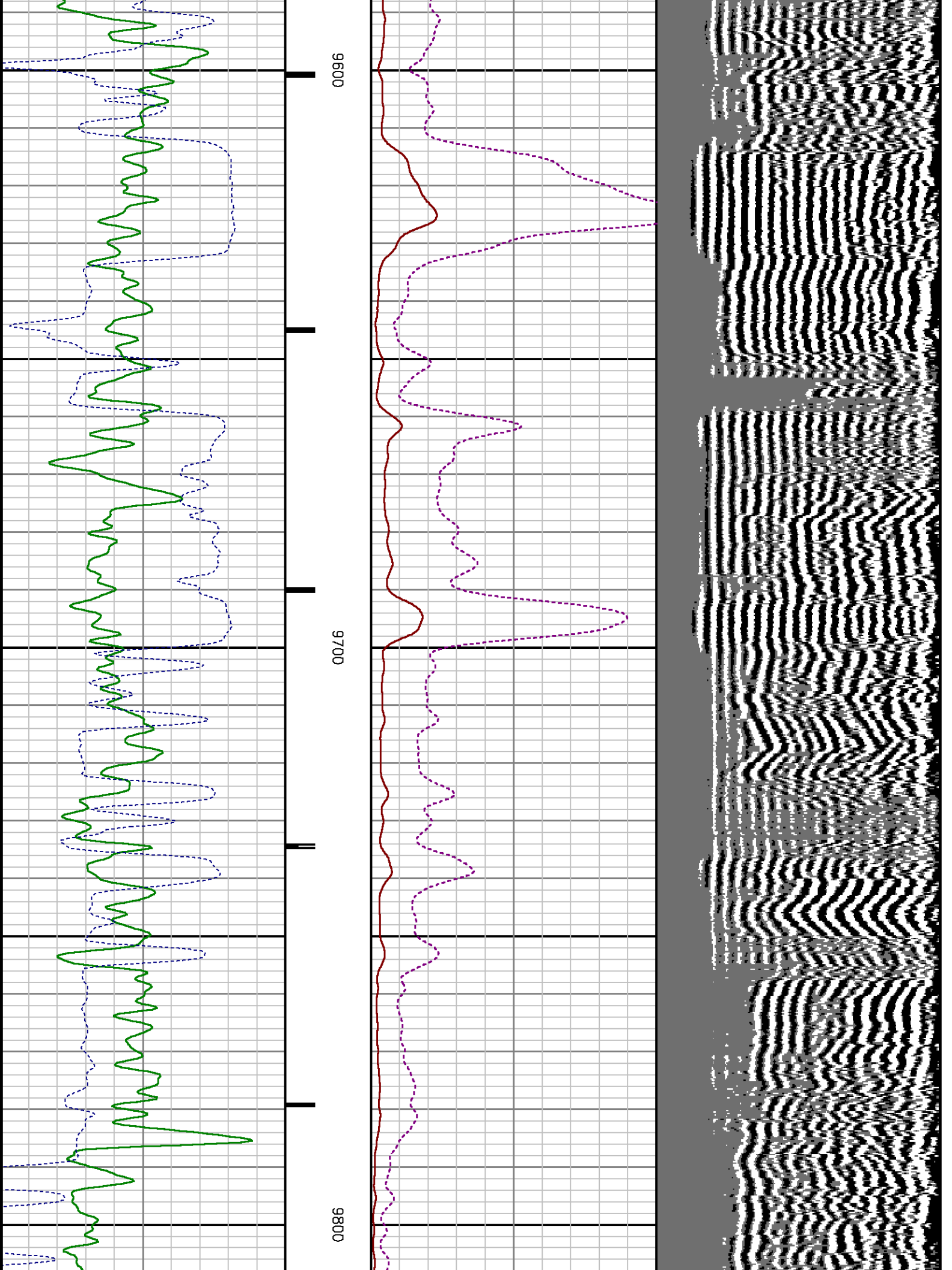


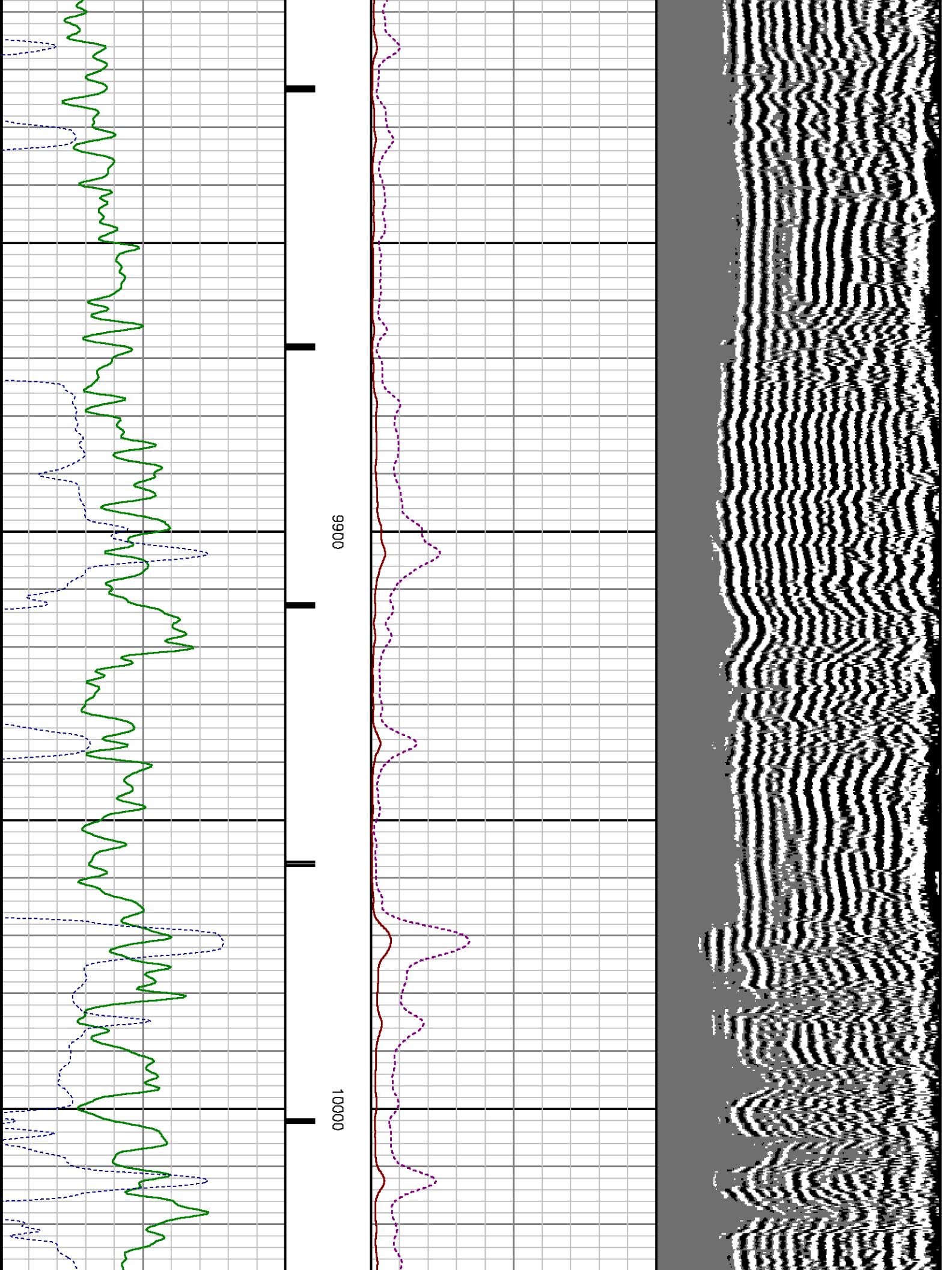


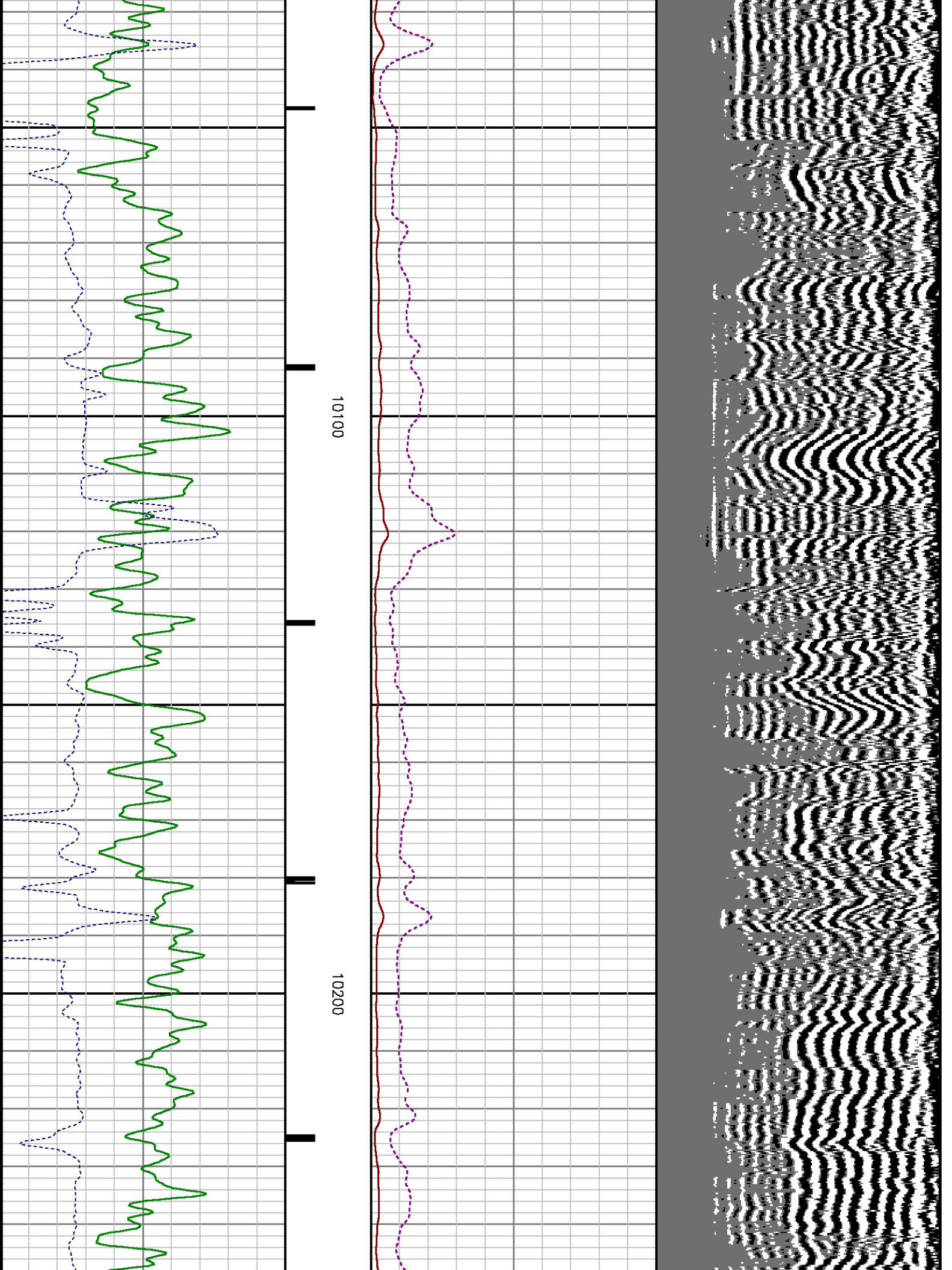


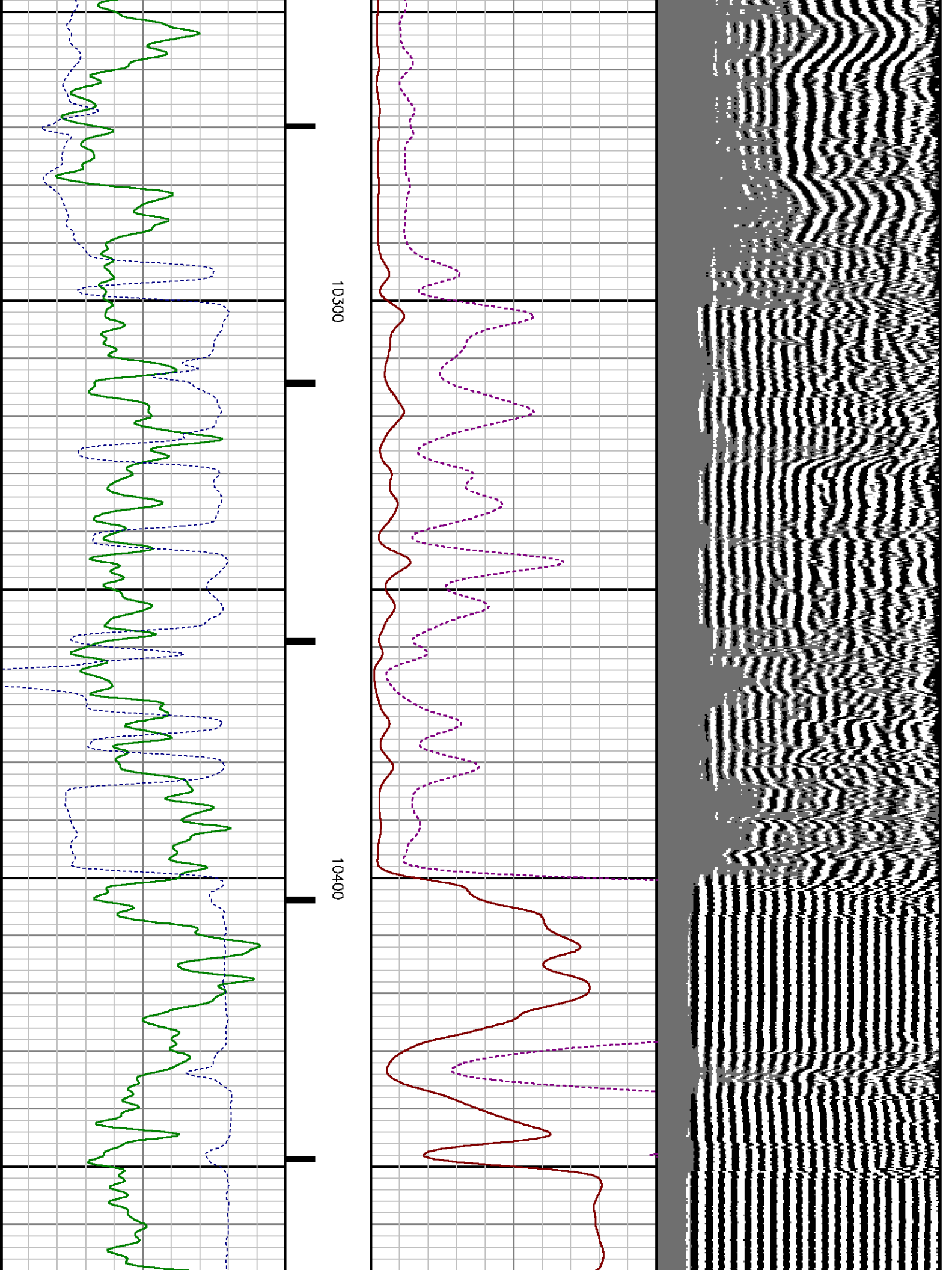


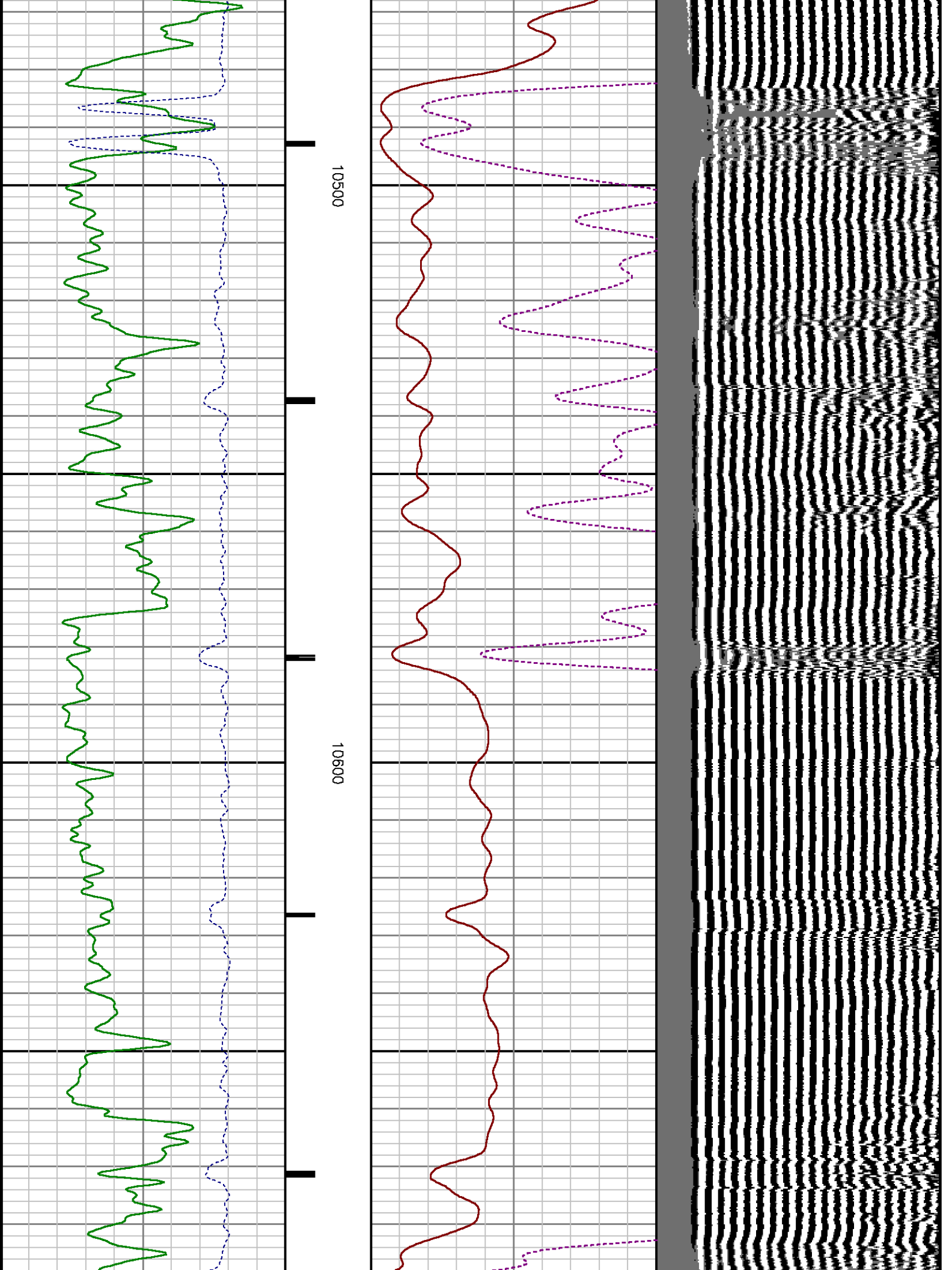


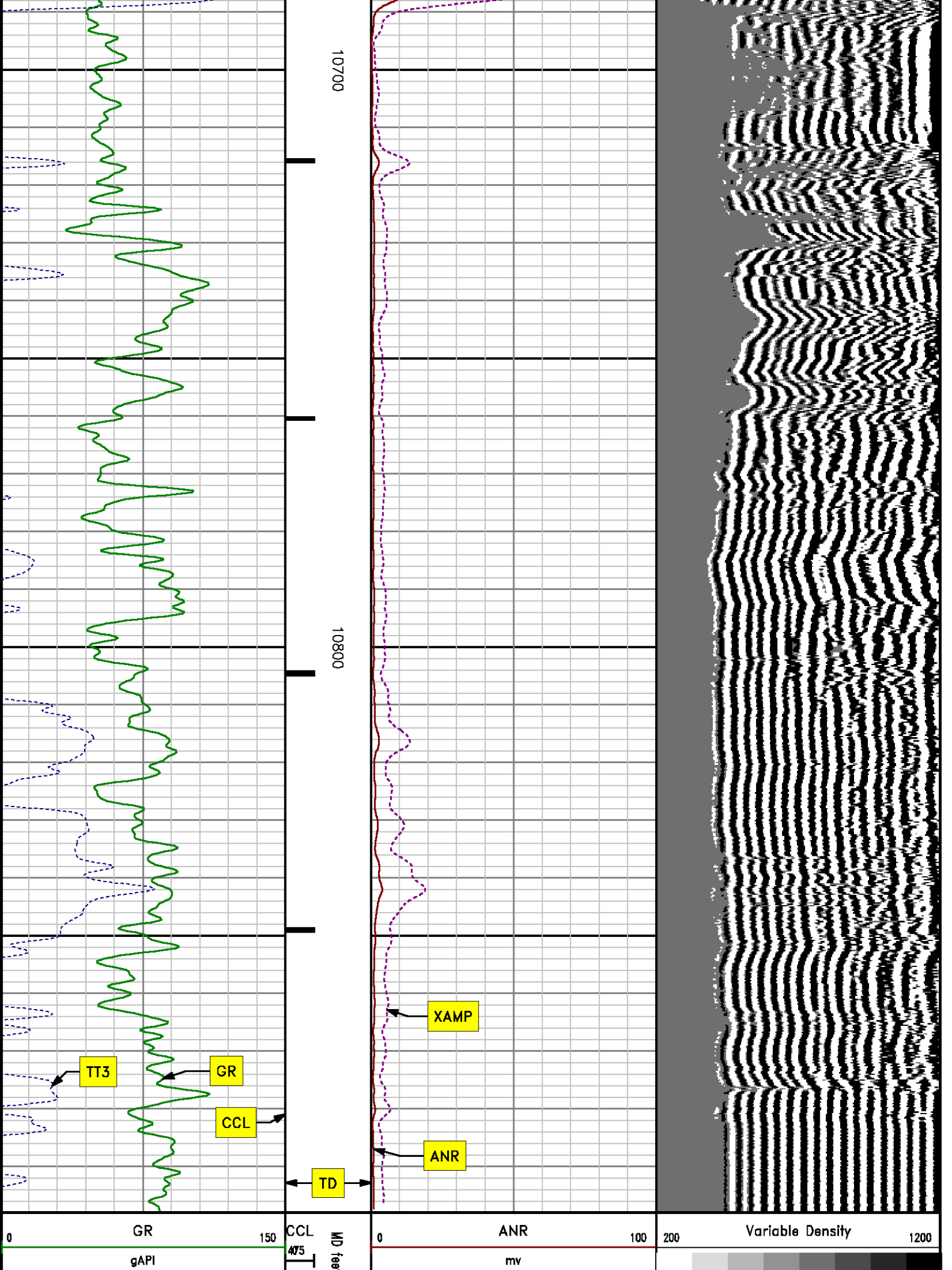












280	TT3	180	mv	0	XAMP	20	us
	usec				mv		

SECONDARY PRESENTATION ***0 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	28.124	10915.000
RAL	Amp Gate Start Near	195.000	usec	28.124	10915.000
RAL	Amp Gate Start Radial	195.000	usec	28.124	10915.000
RAL	Amp Gate Width Far	25.000	usec	28.124	10915.000
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RAL	FB Start Near	175.391	usec	28.124	10915.000
RAL	FB Start Radial	175.391	usec	28.124	10915.000
RAL	FB Thresh Far	10.000	mv	28.124	10915.000
RAL	FB Thresh Near	4.000	mv	28.124	10915.000
RAL	FB Thresh Radial	4.000	mv	28.124	10915.000
RAL	Fluid Travel Time	200.000	usec/ft	28.124	10914.874

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	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	-15.750	AFAR	SIG	TT5			
2459XA	-11.340	CCL					
2459XA	-9.490	GR					
2459XA	-4.090	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

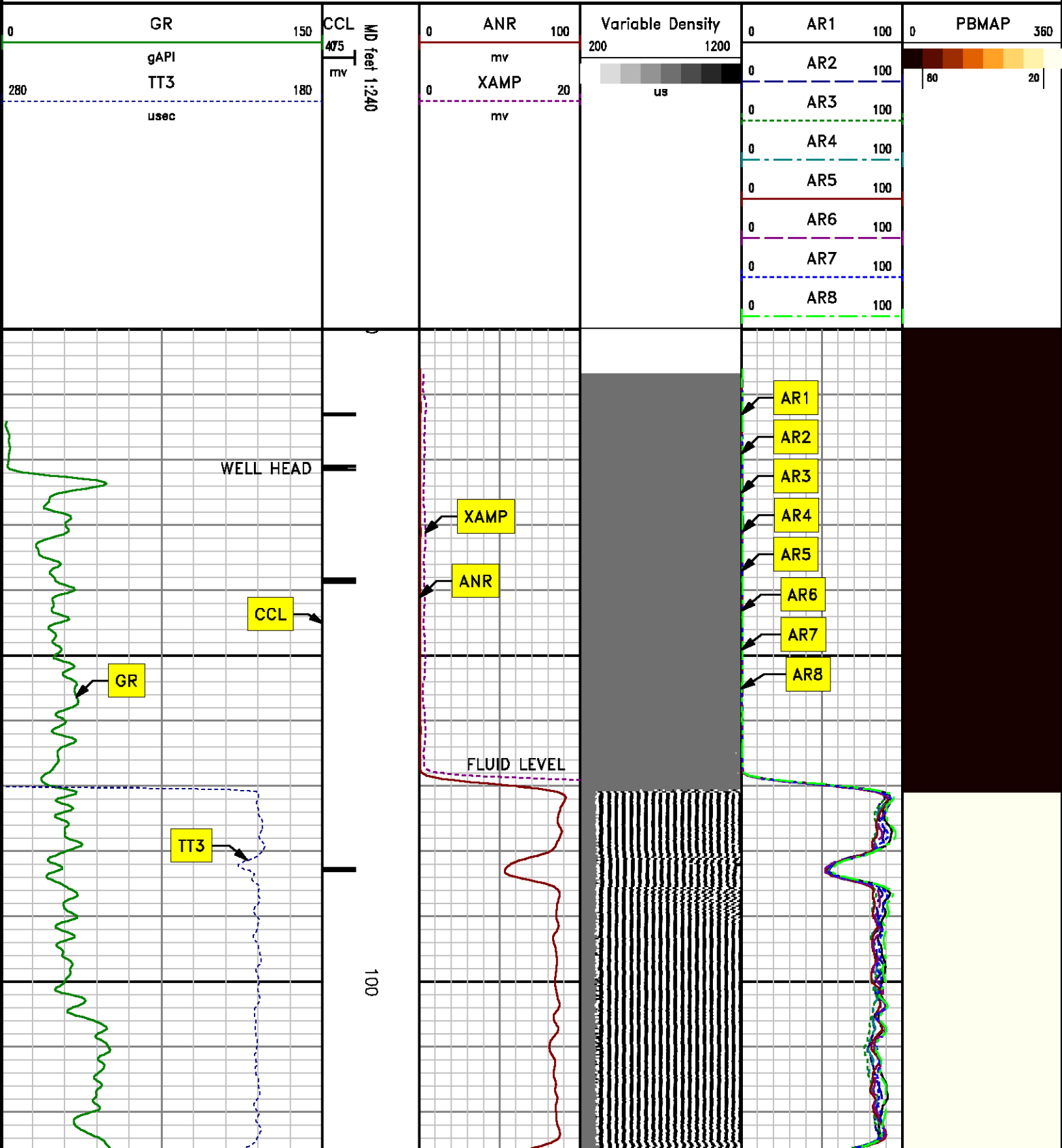
Well : FEDERAL RG 42-15-298

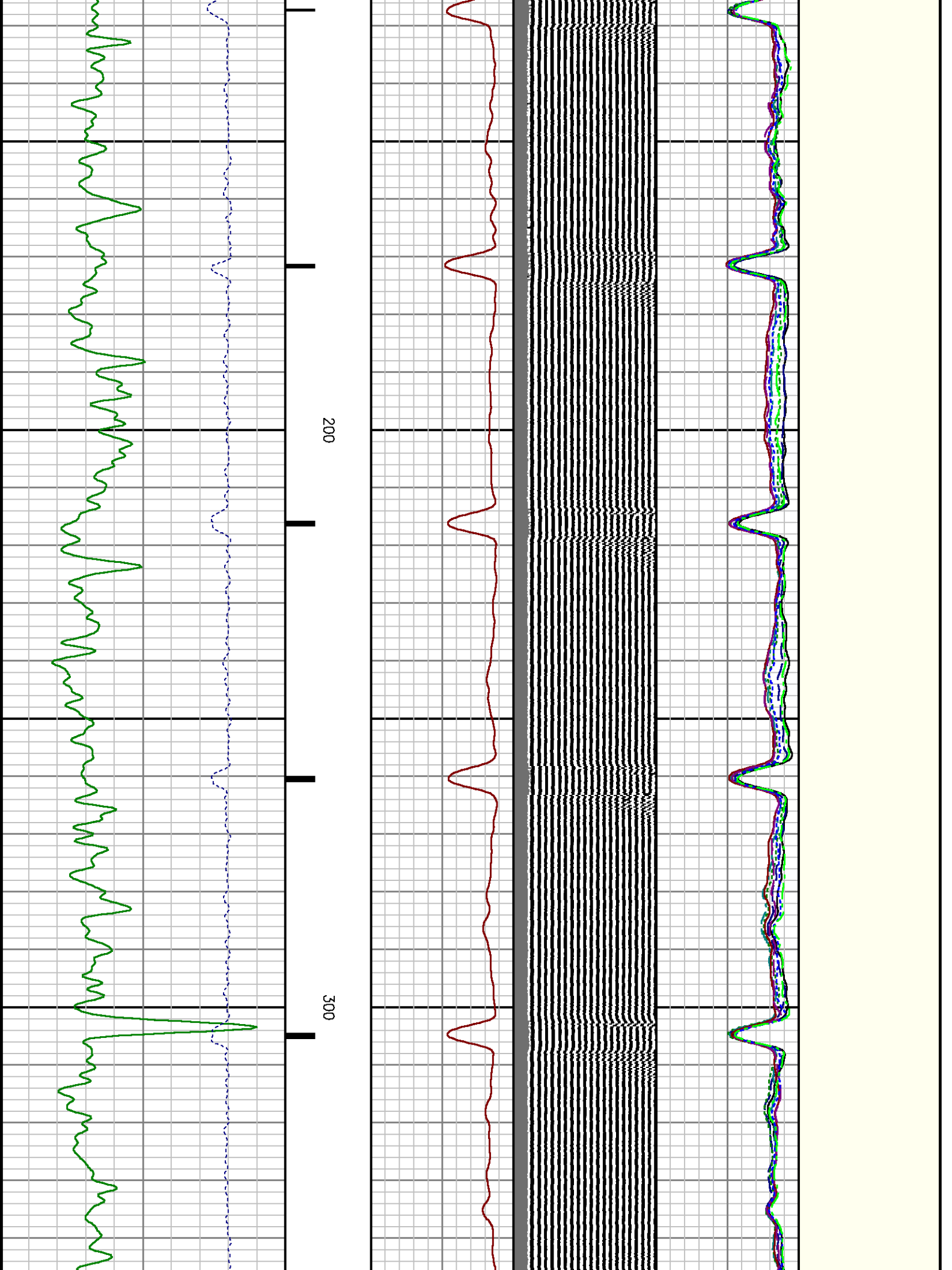
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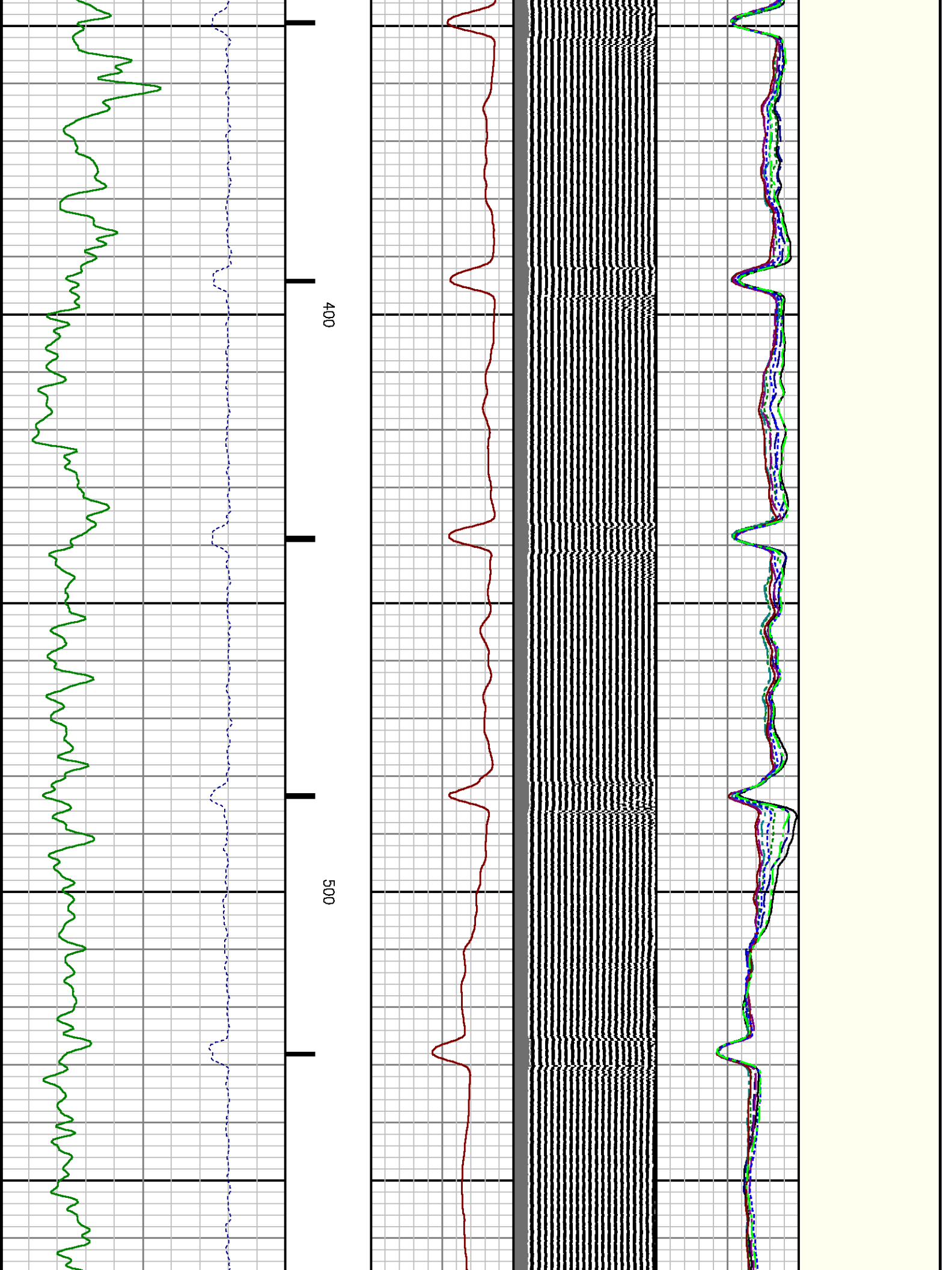
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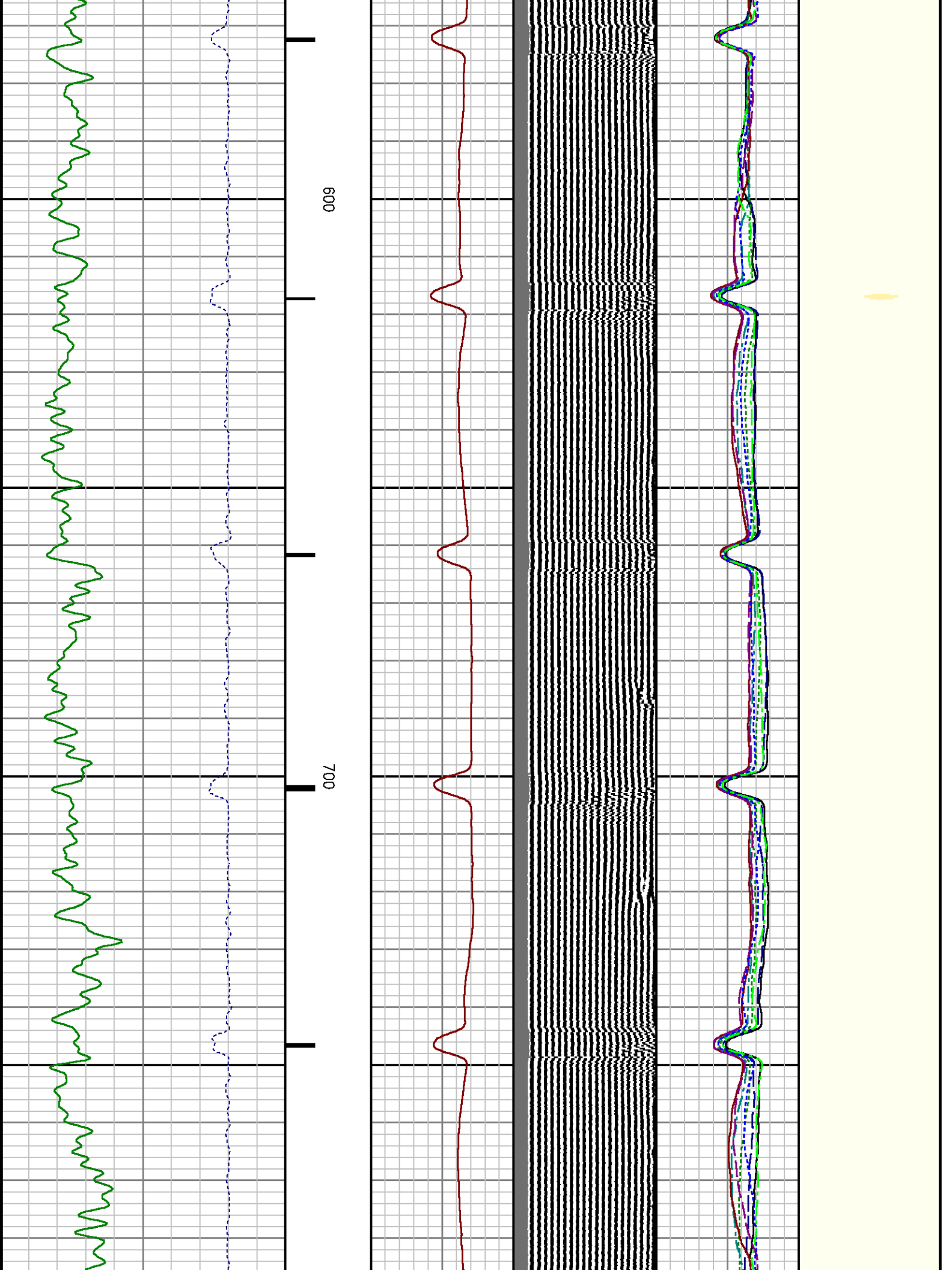
Interval : 0.00 - 10898.00 feet UP

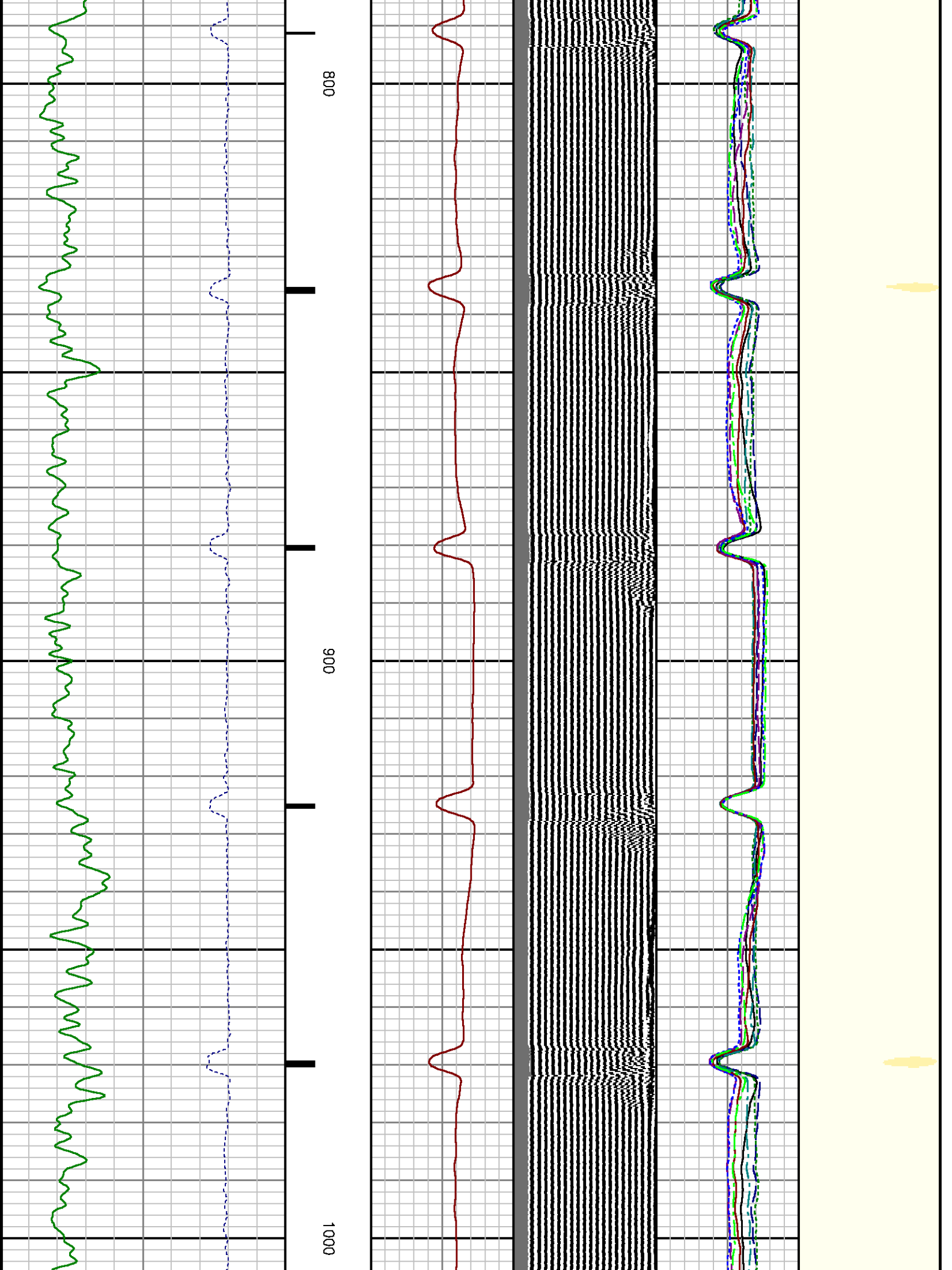
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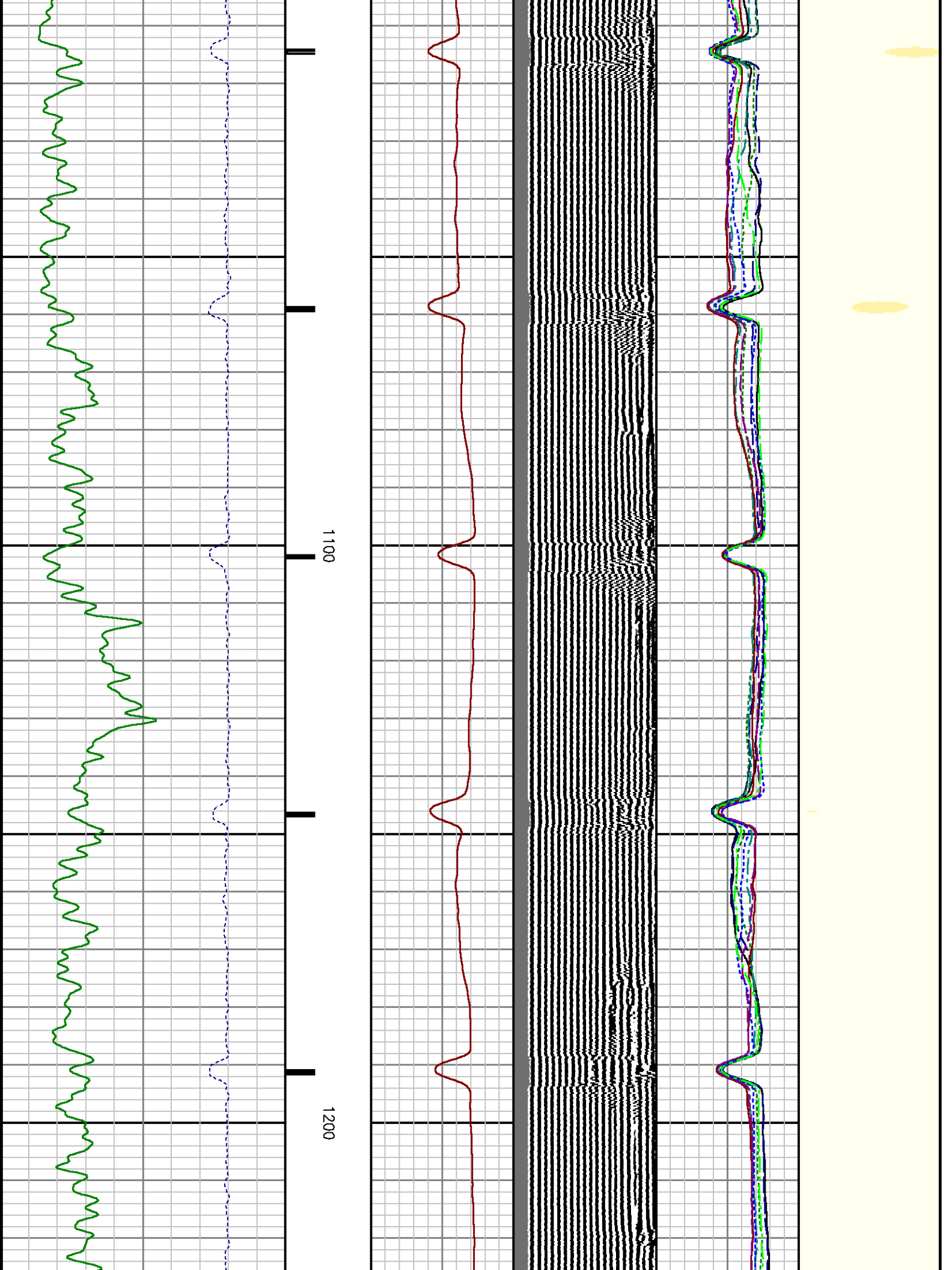


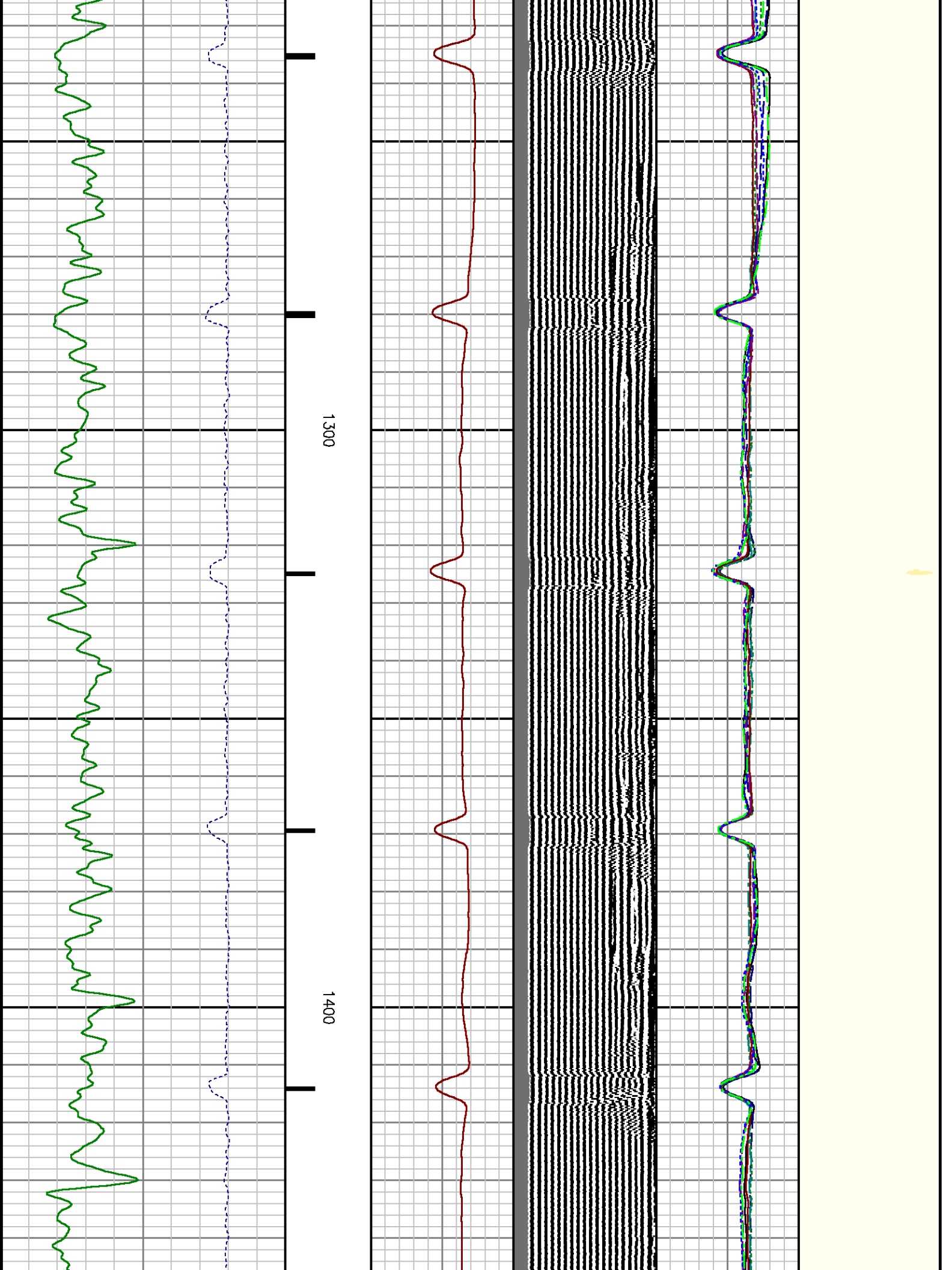


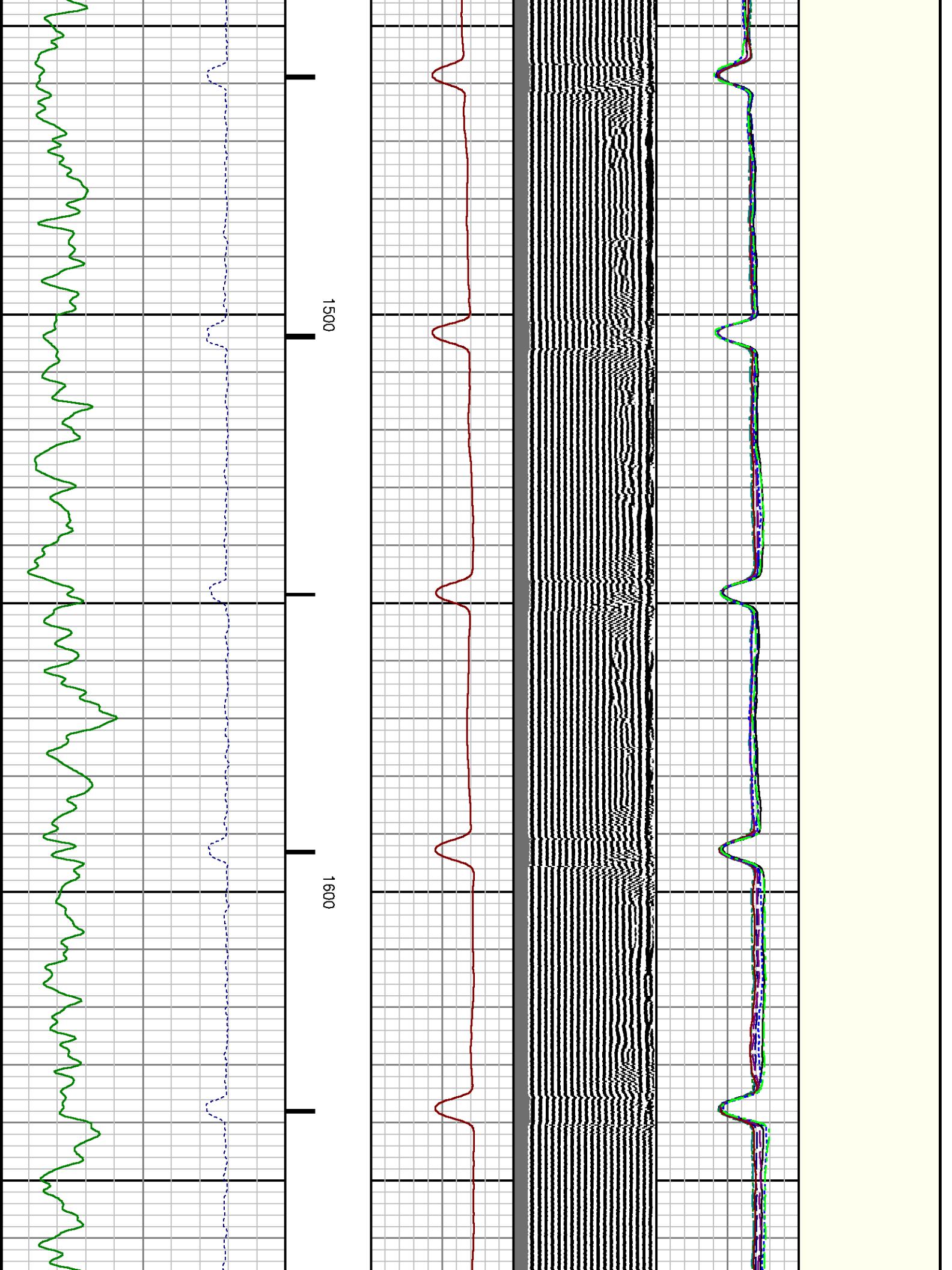


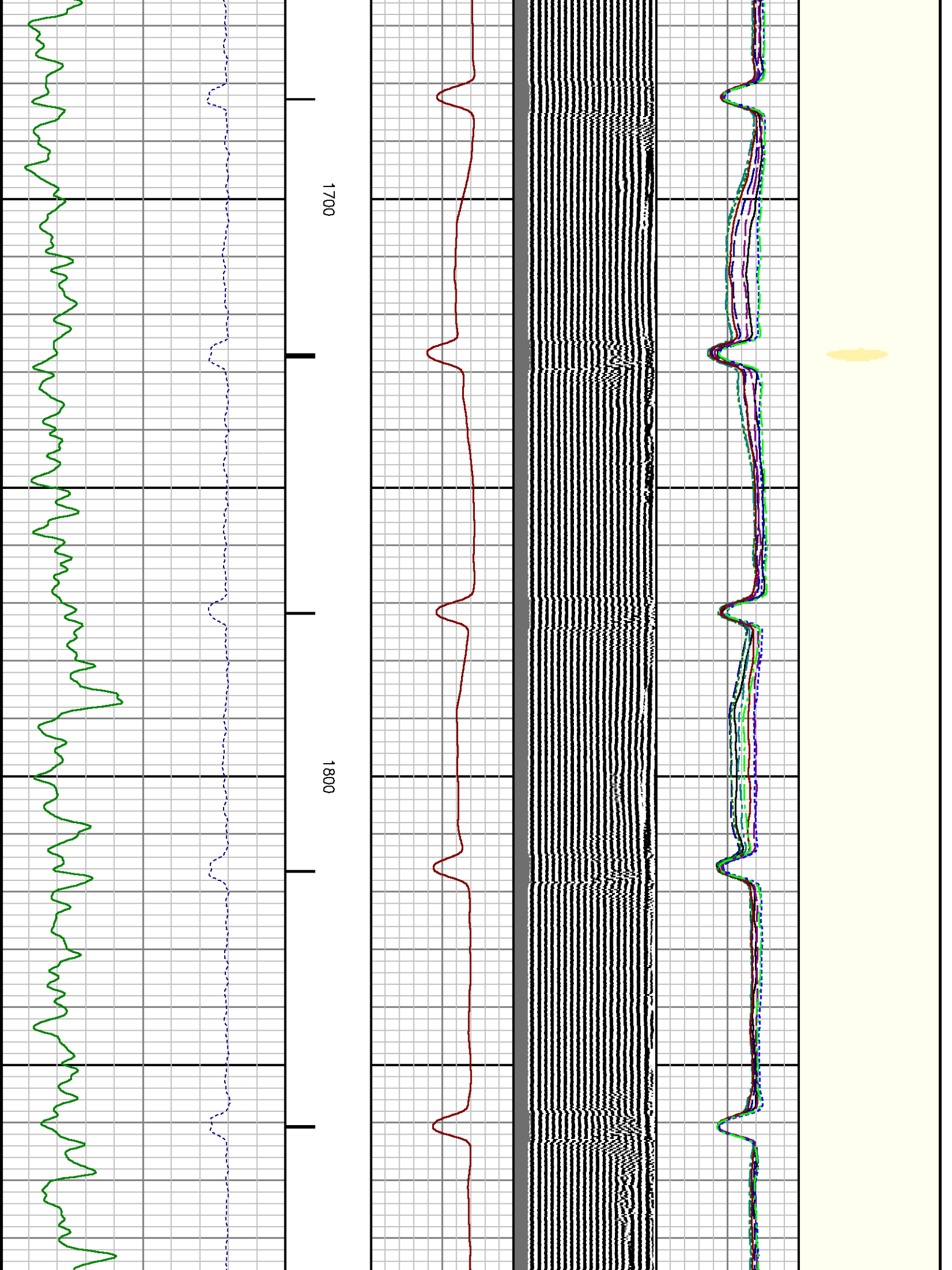


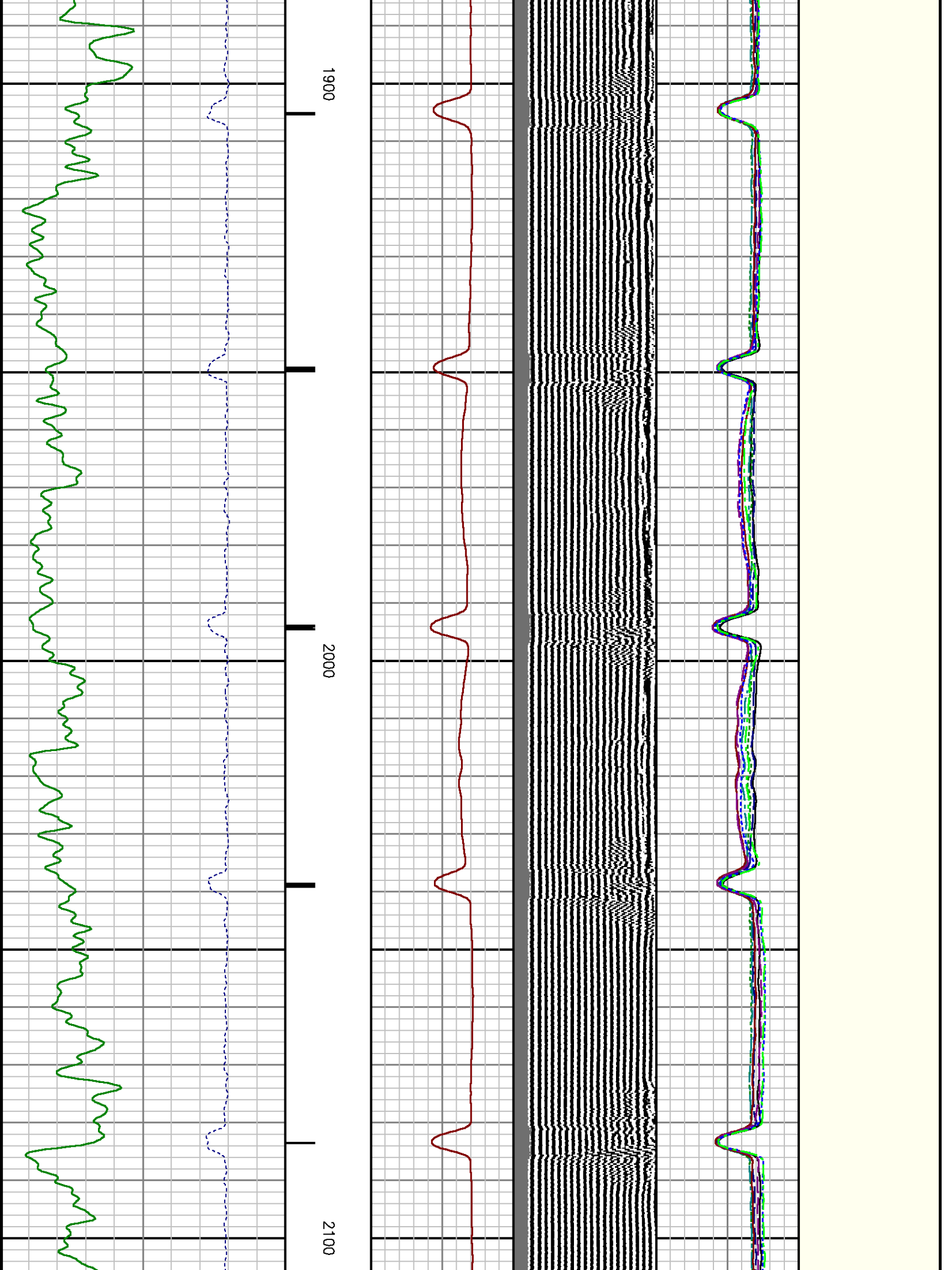


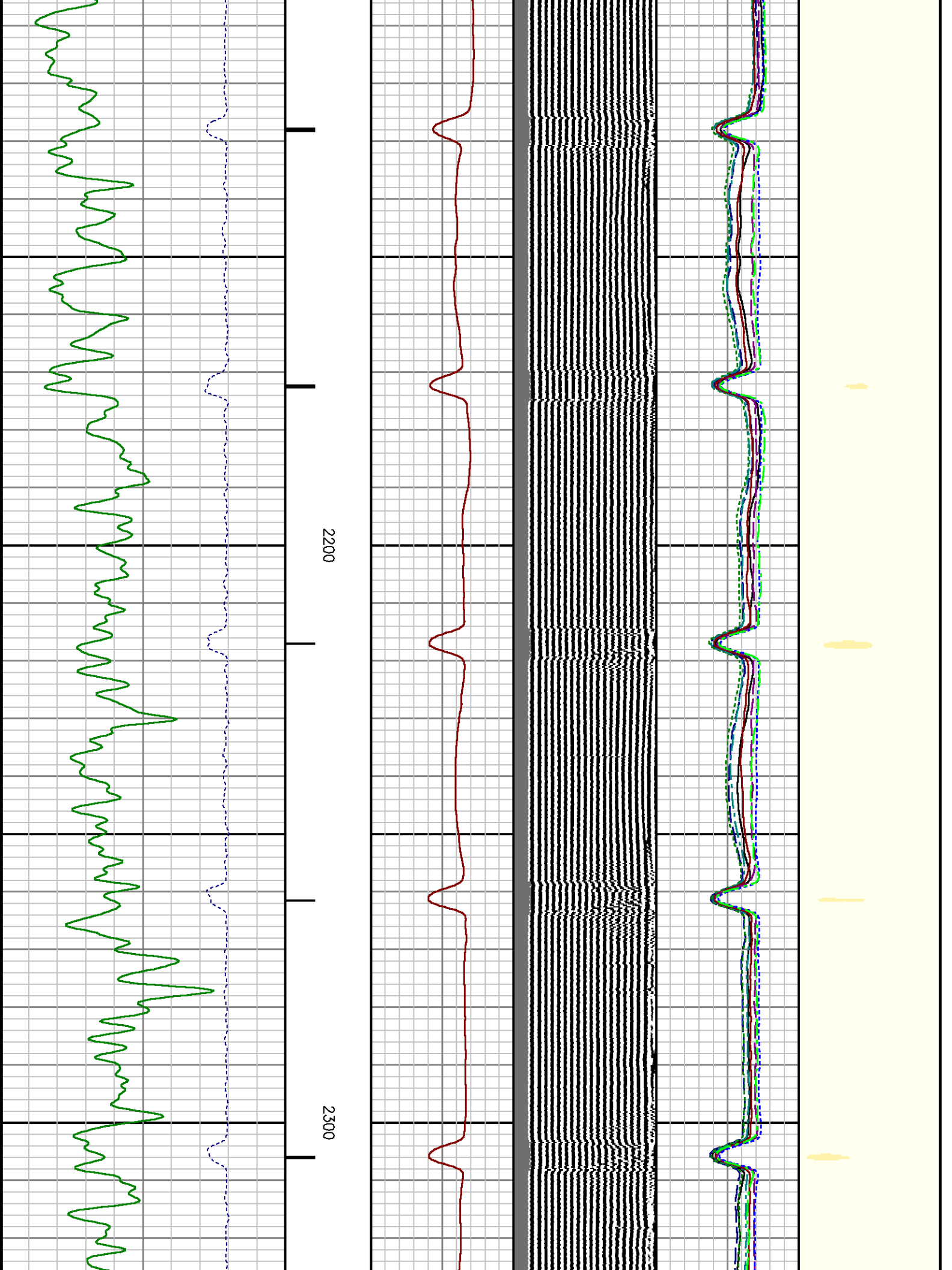


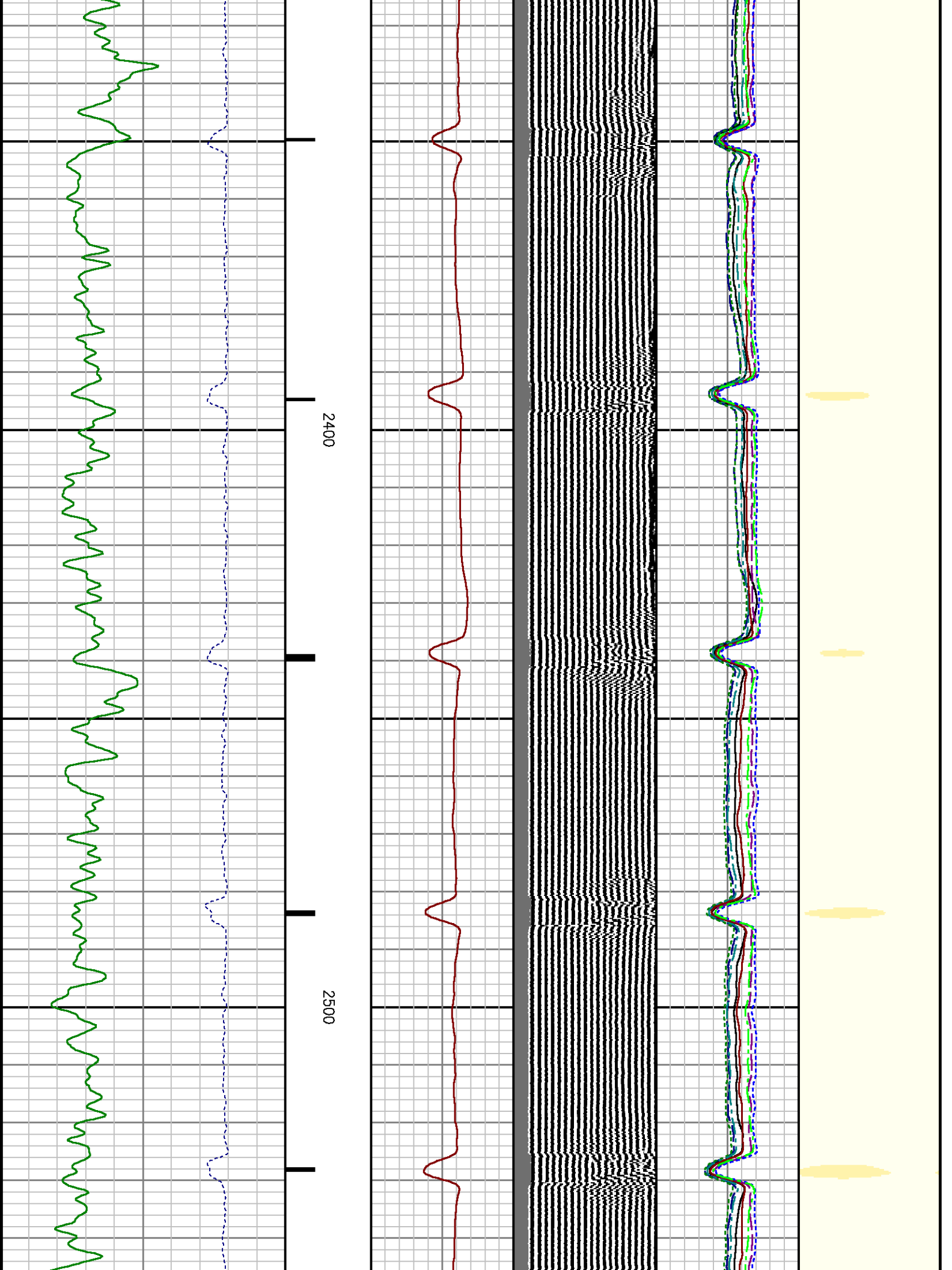


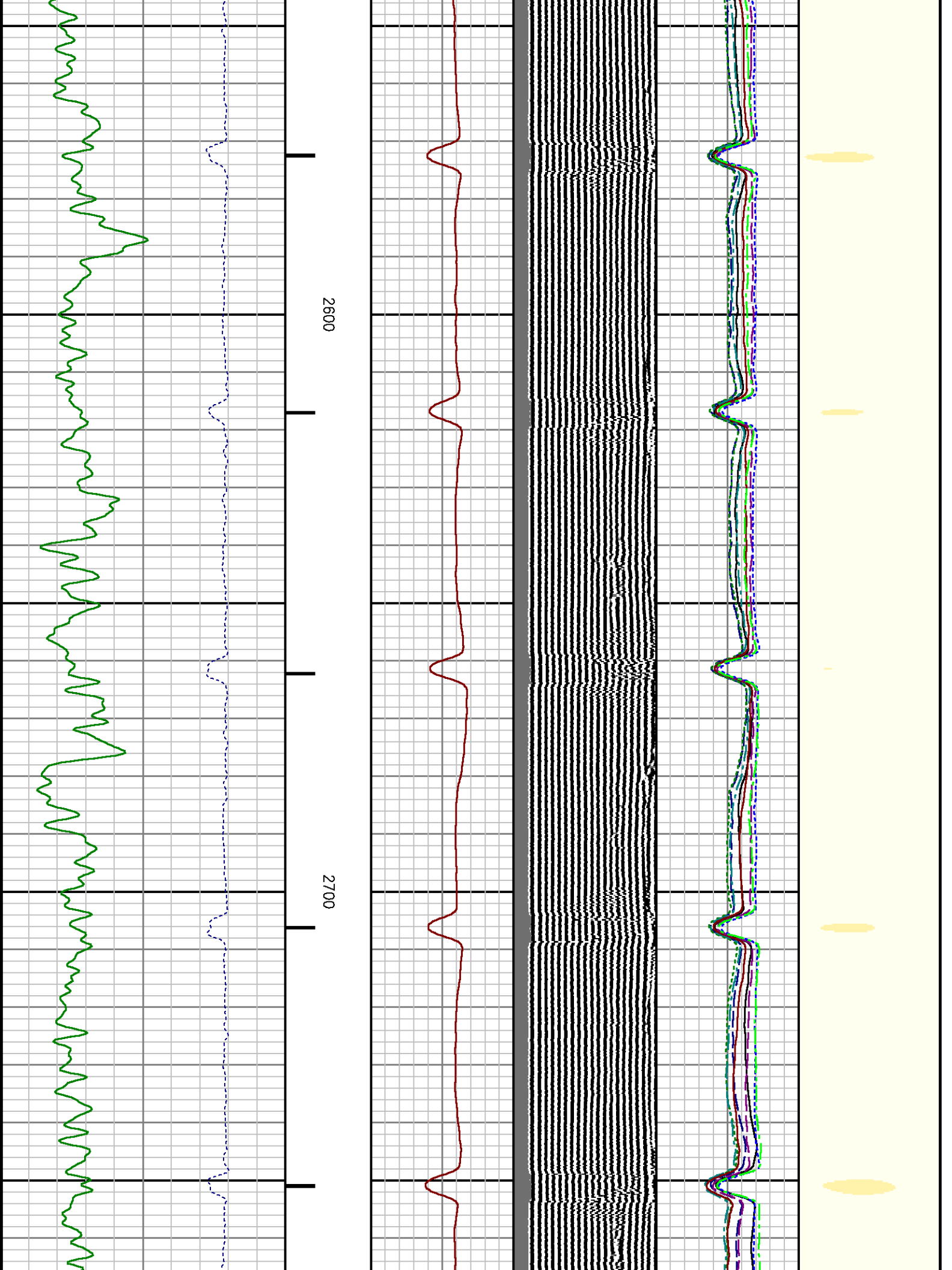


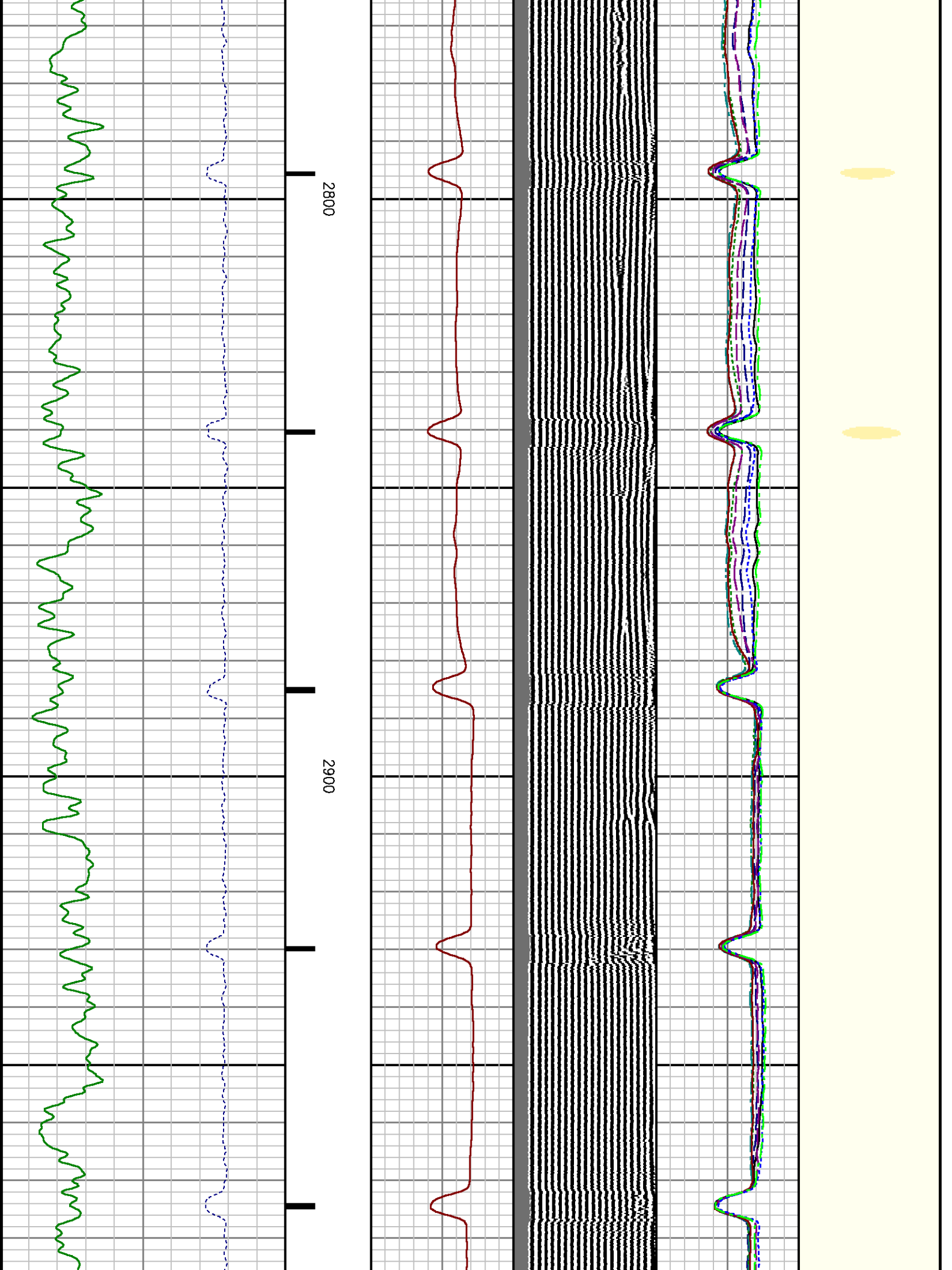


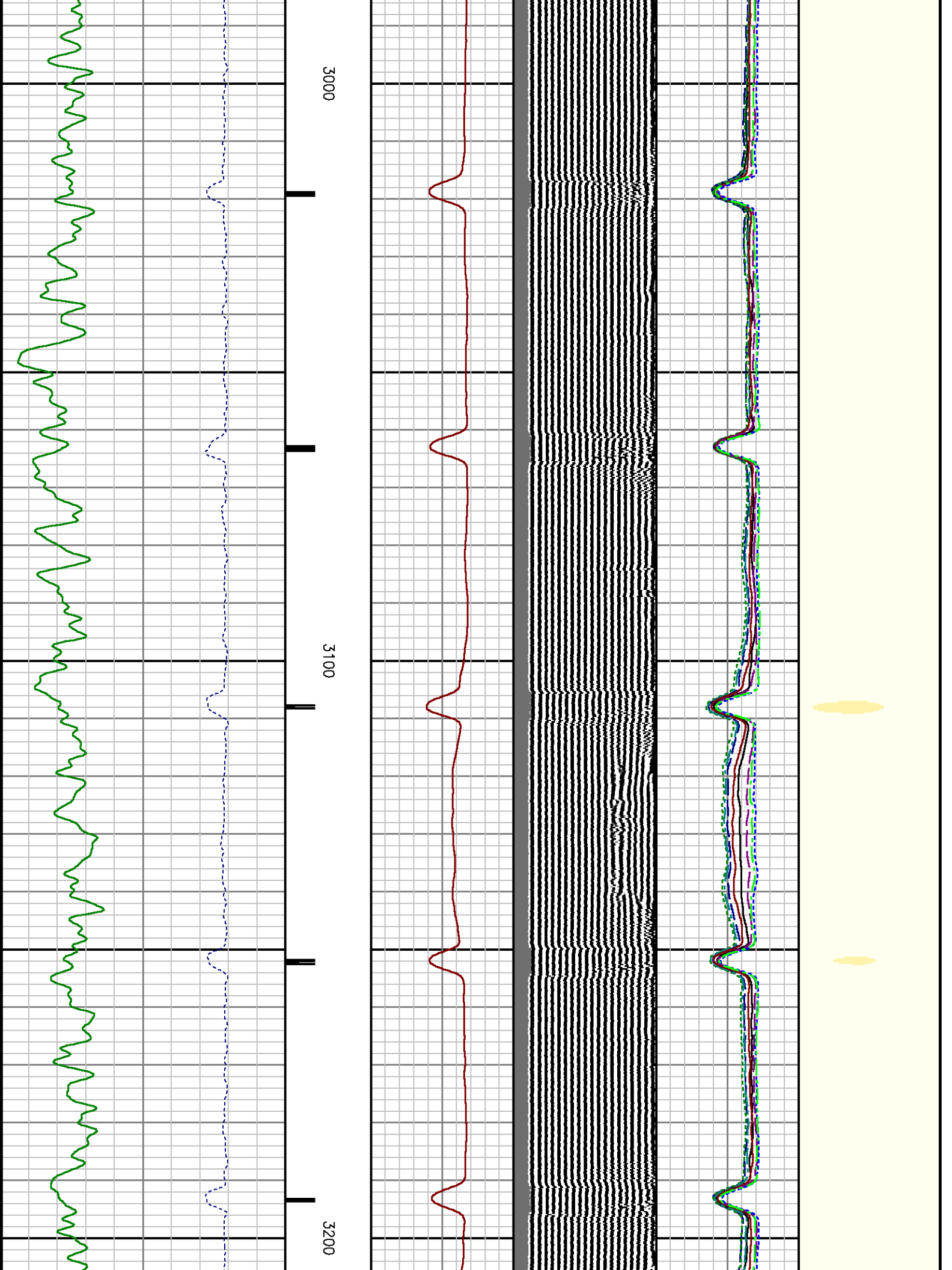


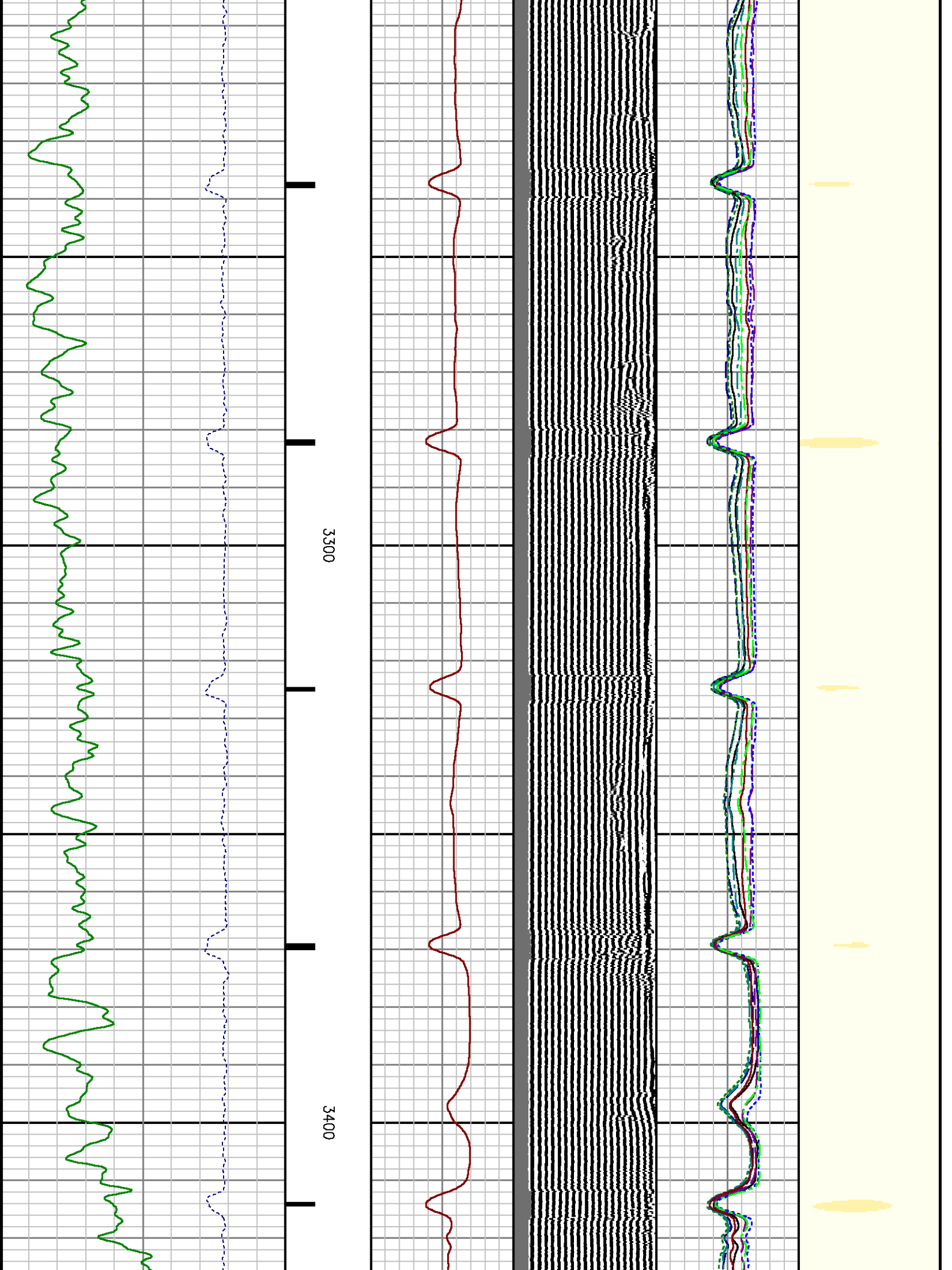


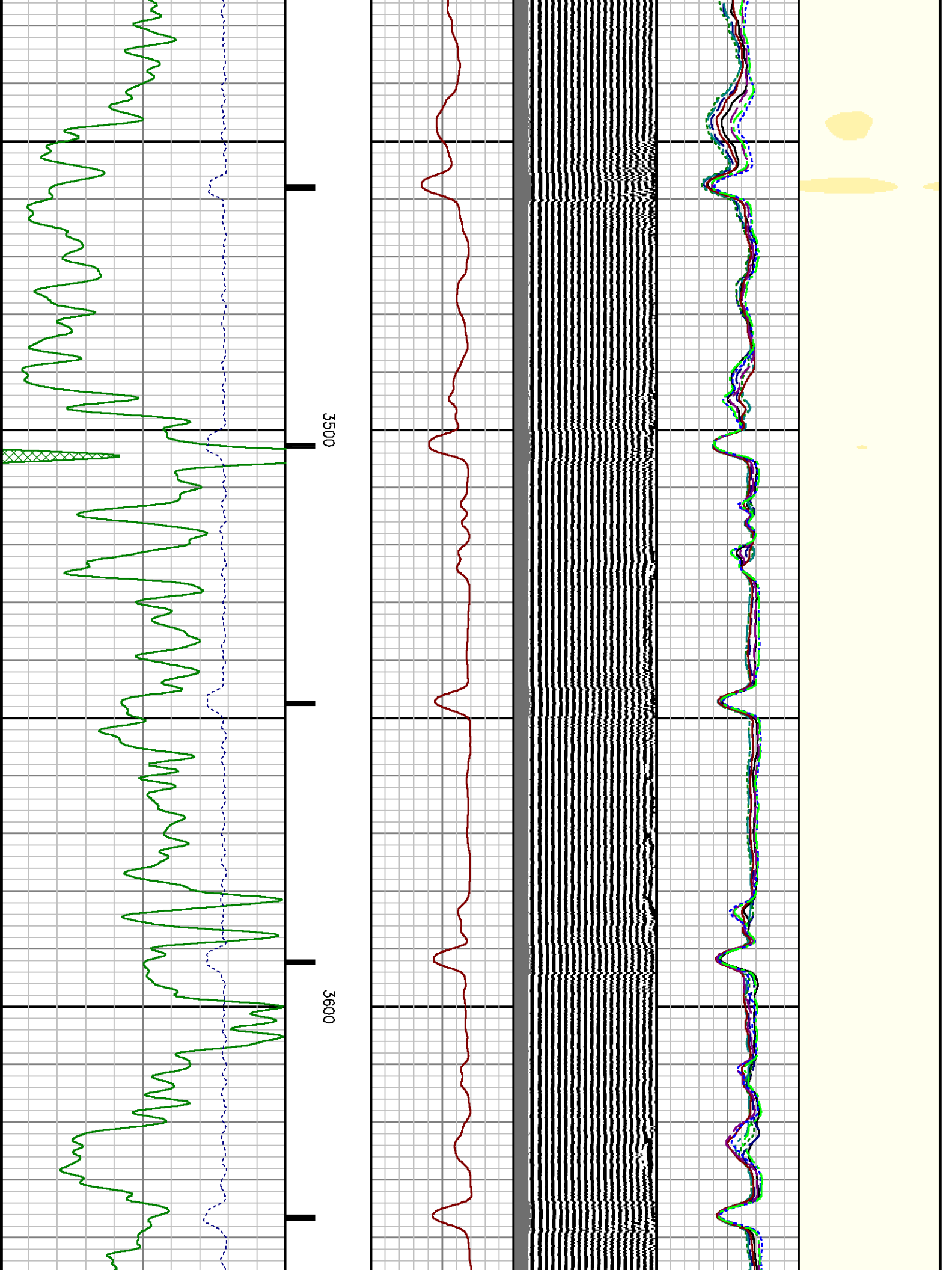


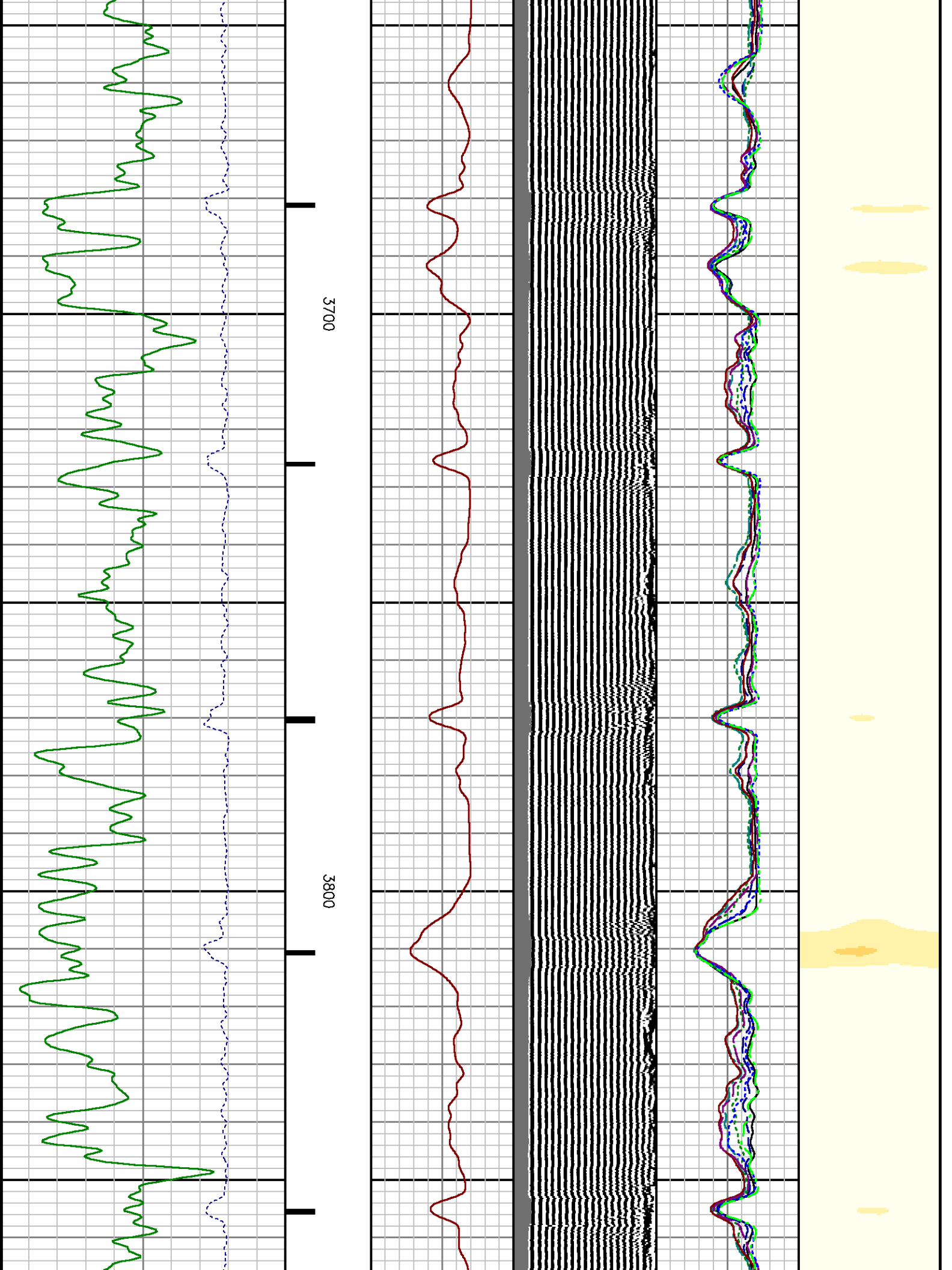


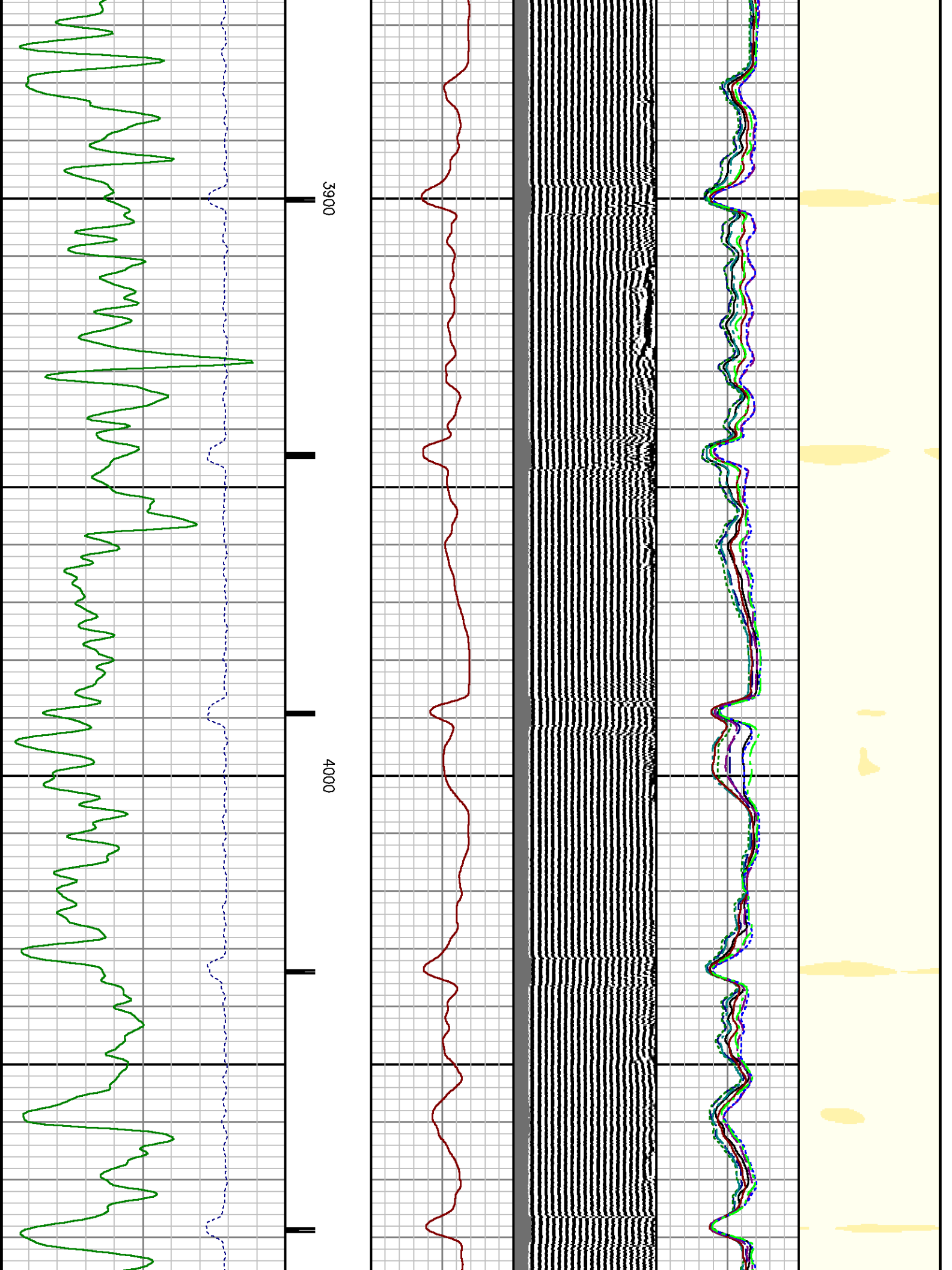


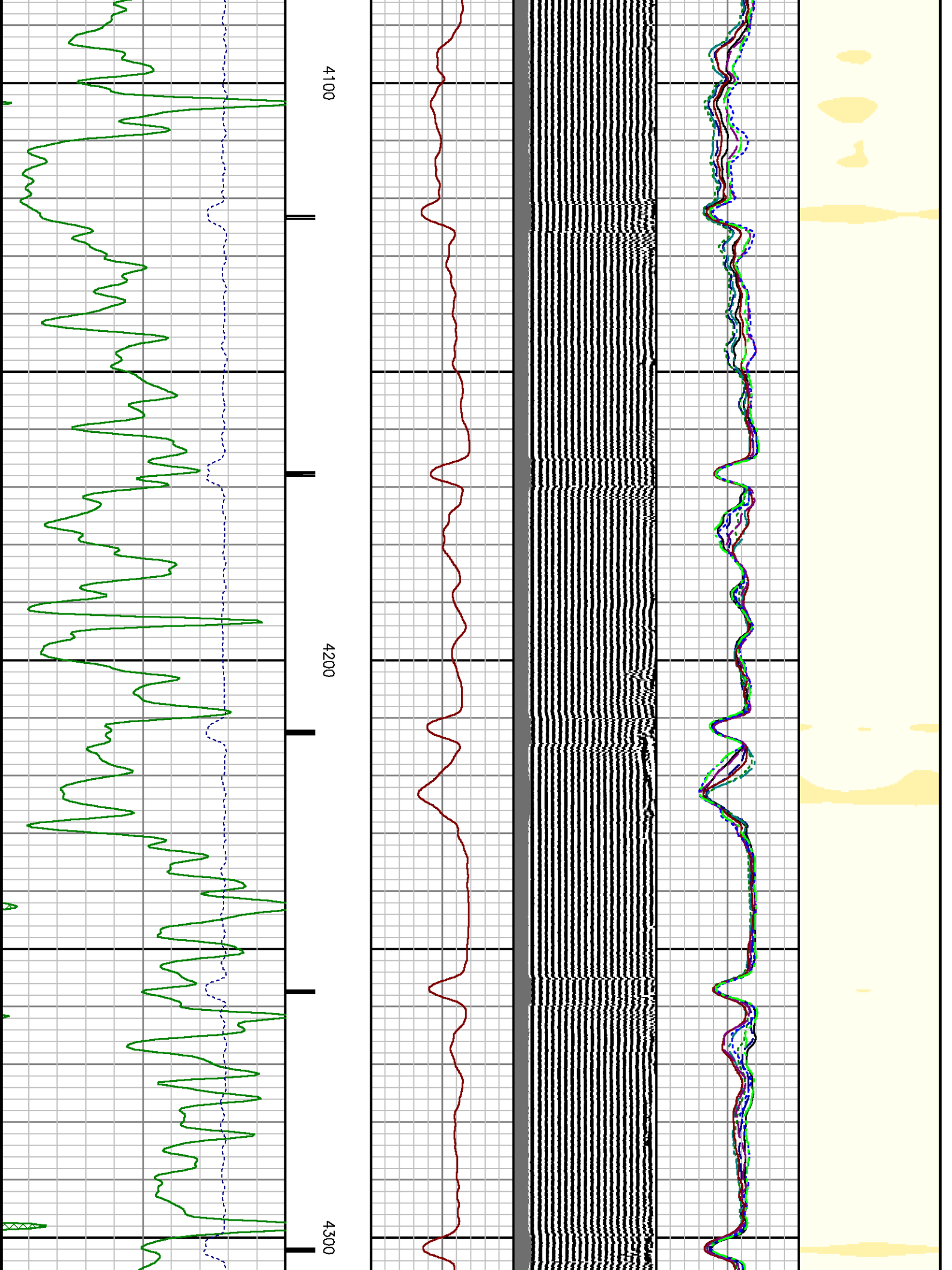


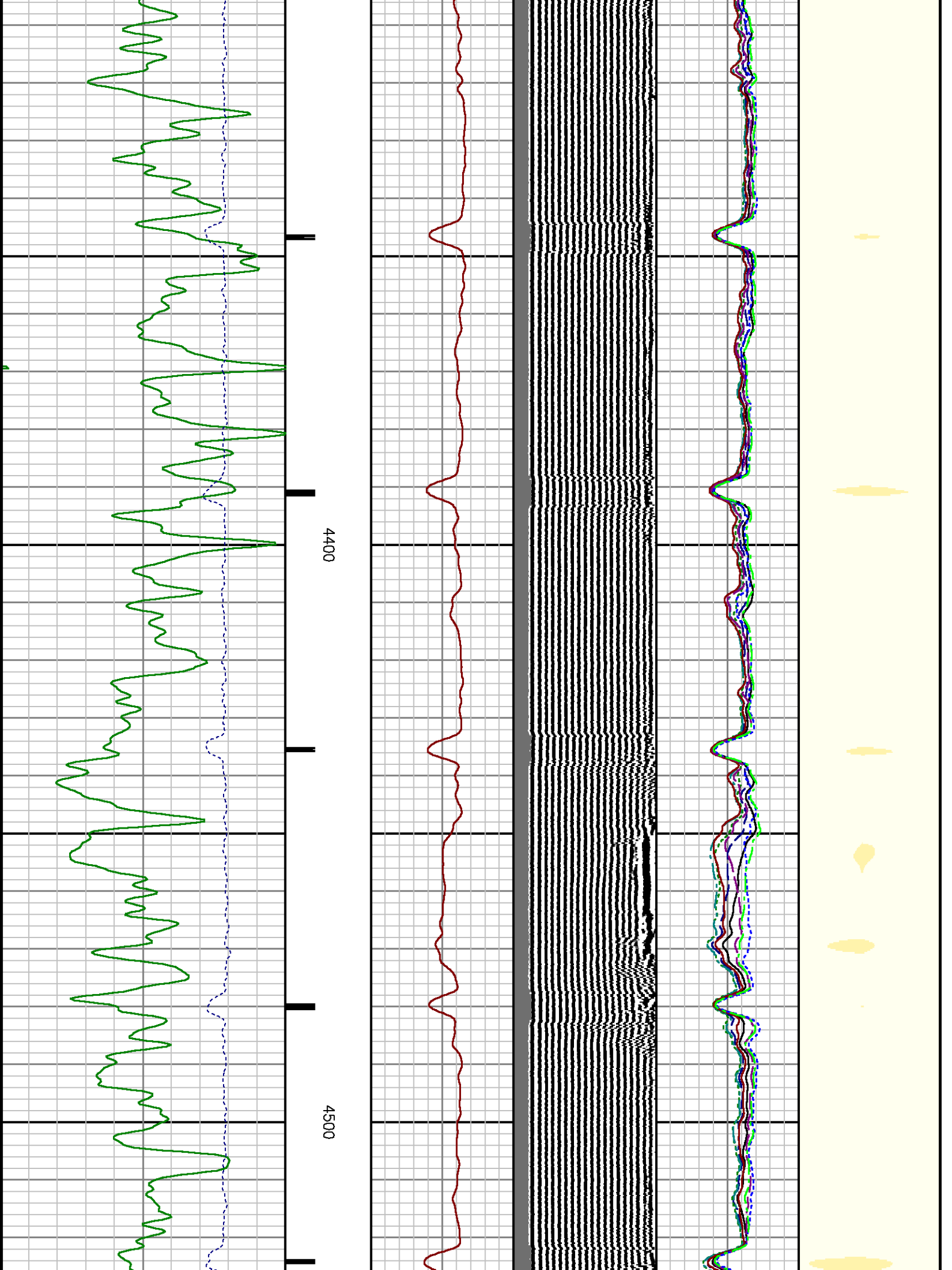


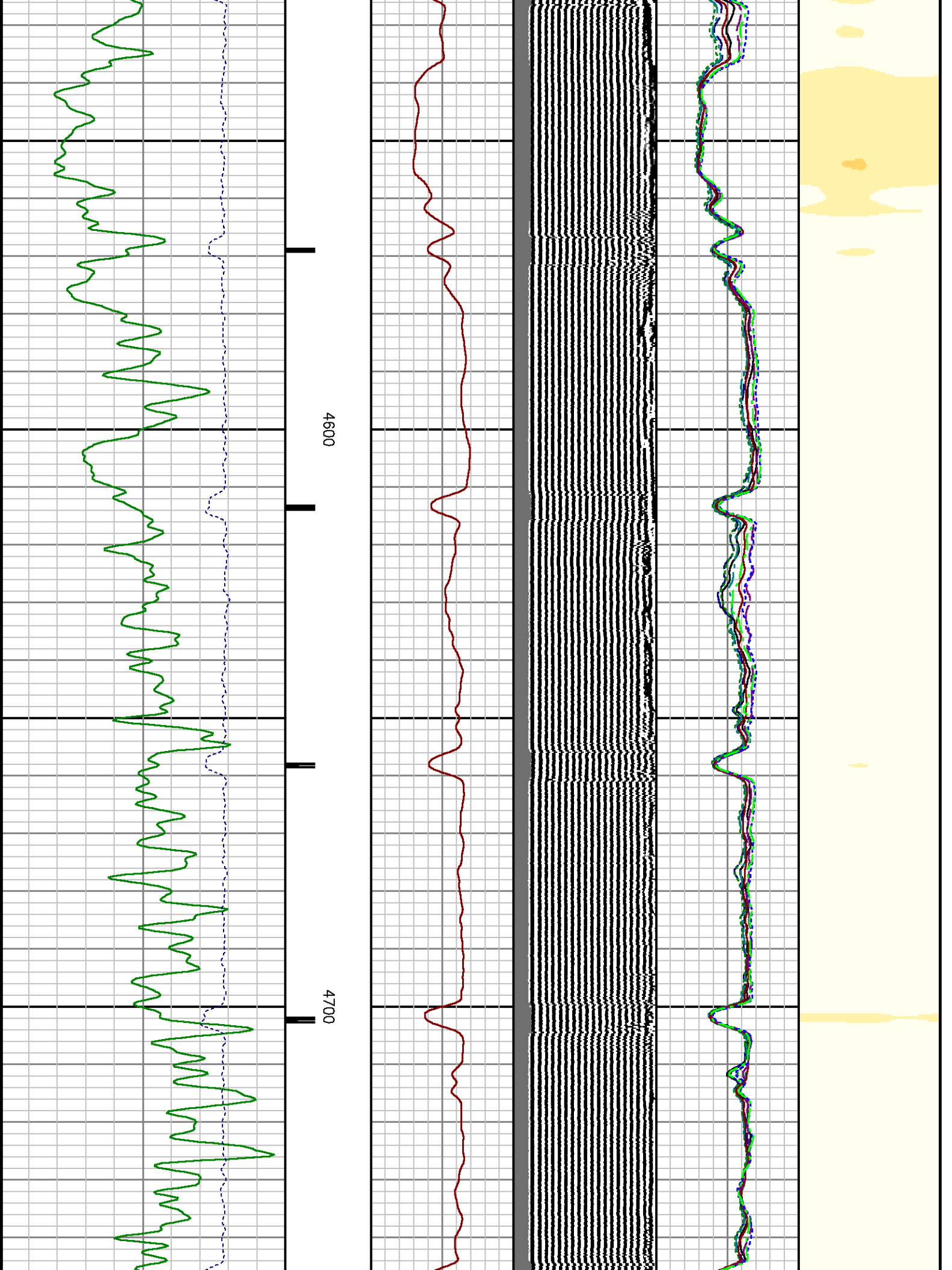


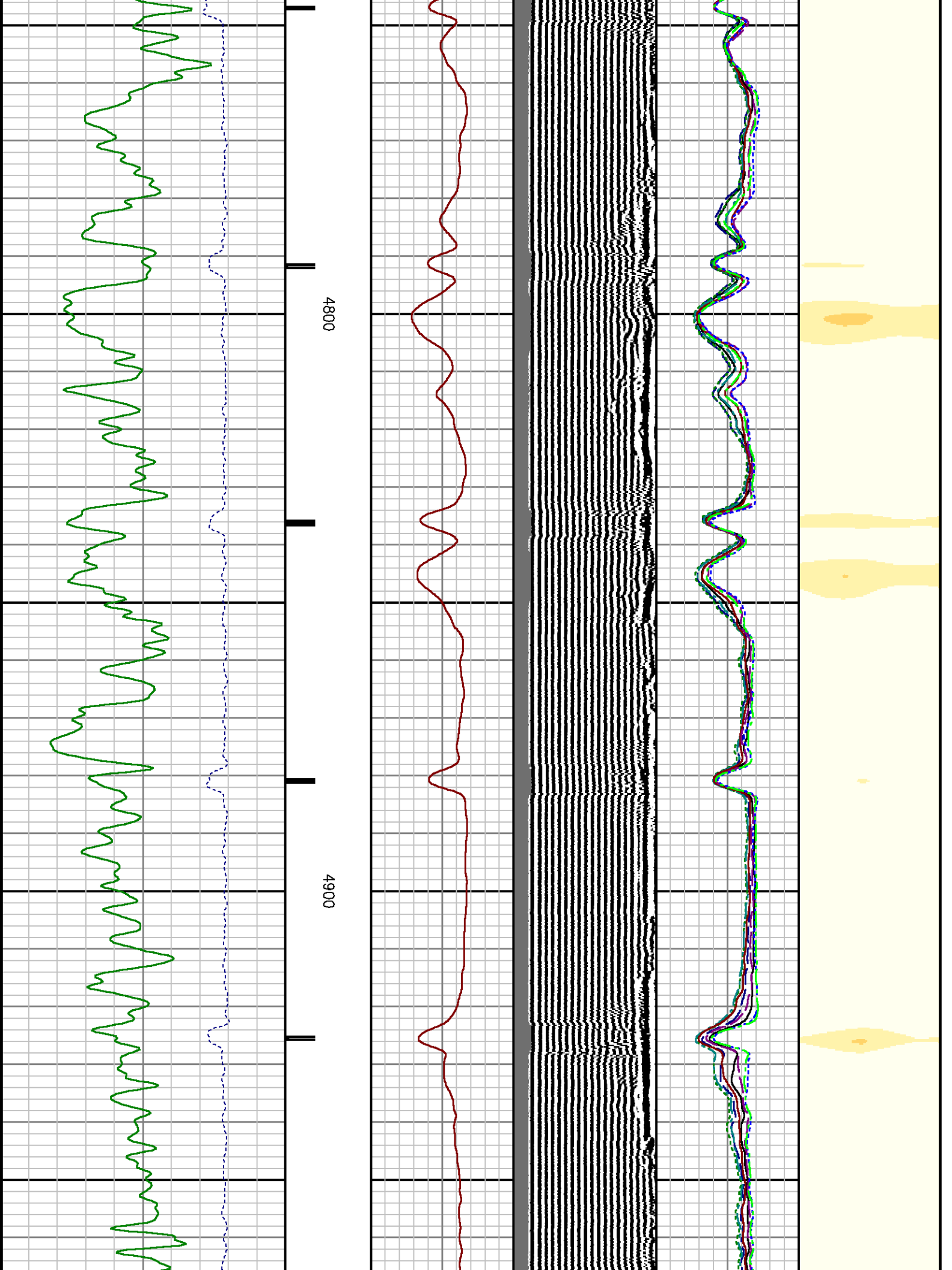


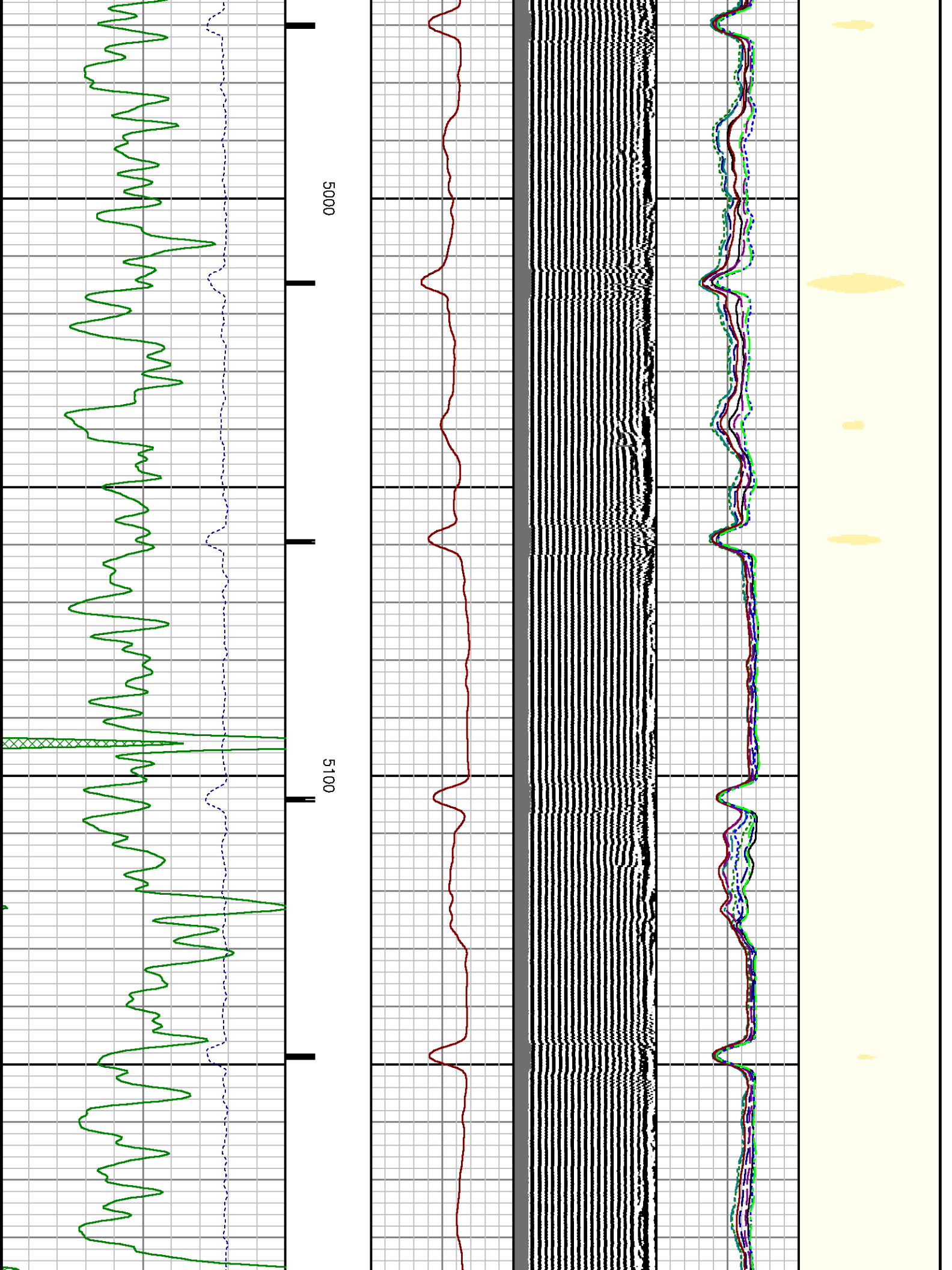


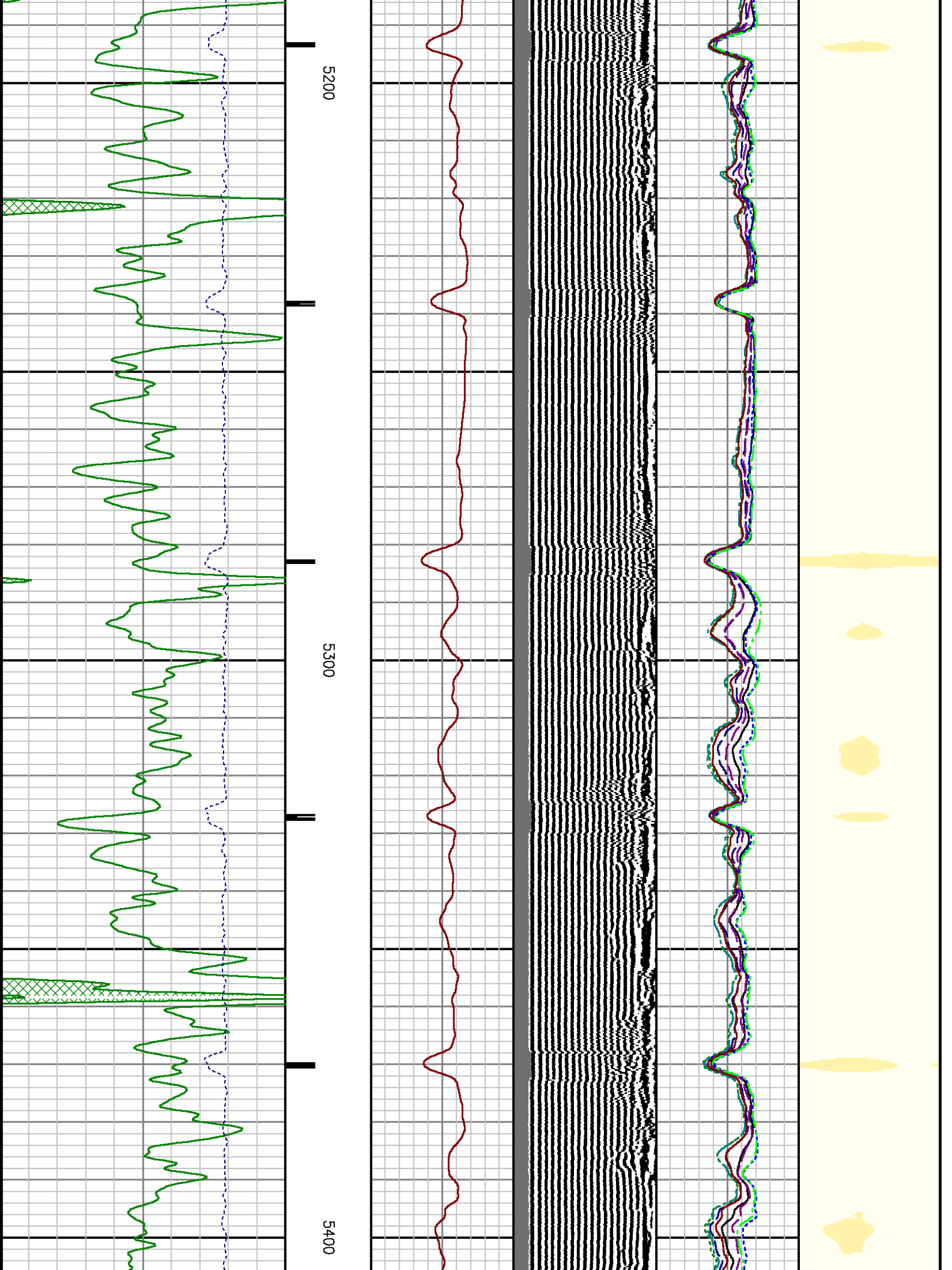


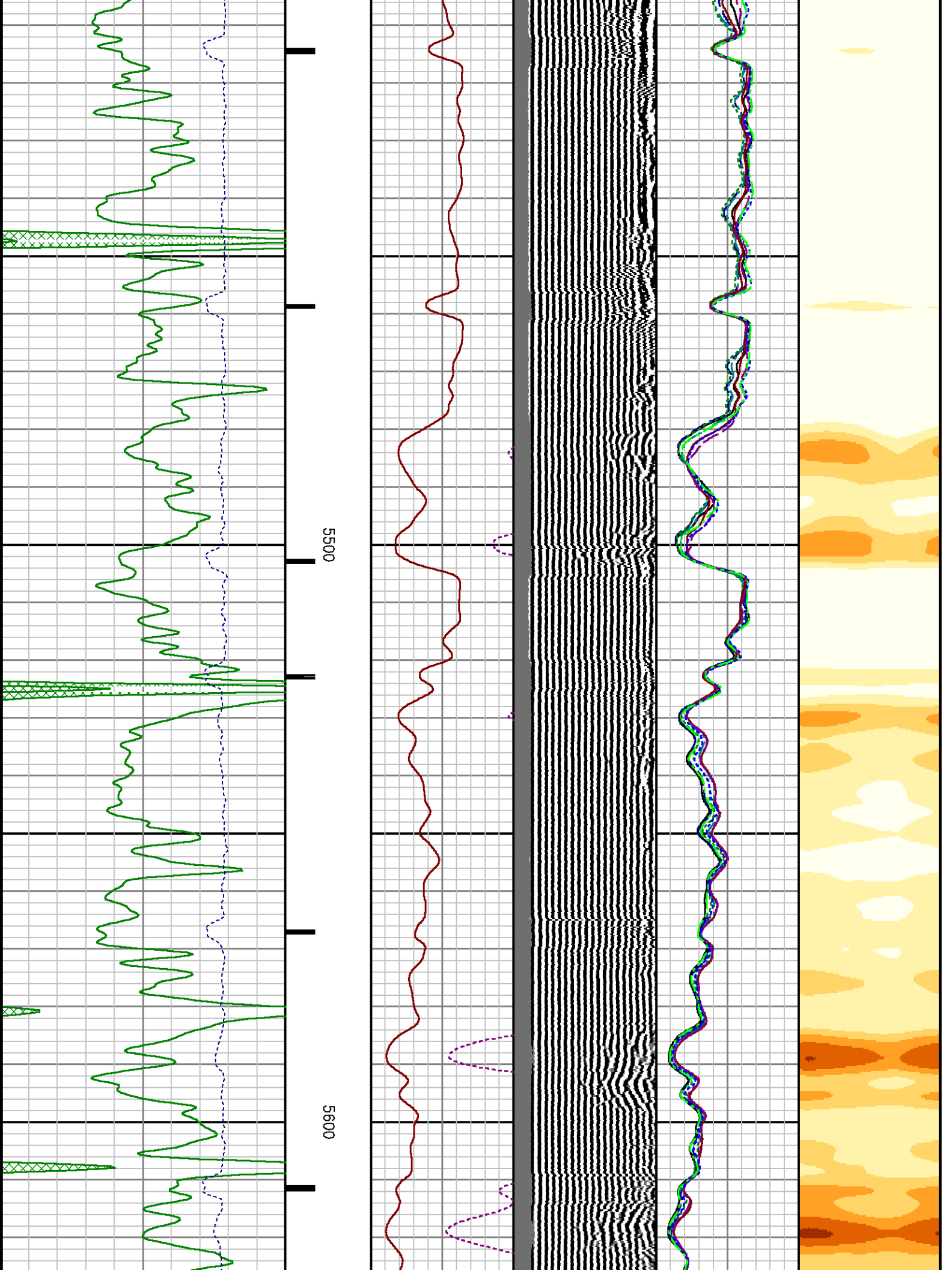


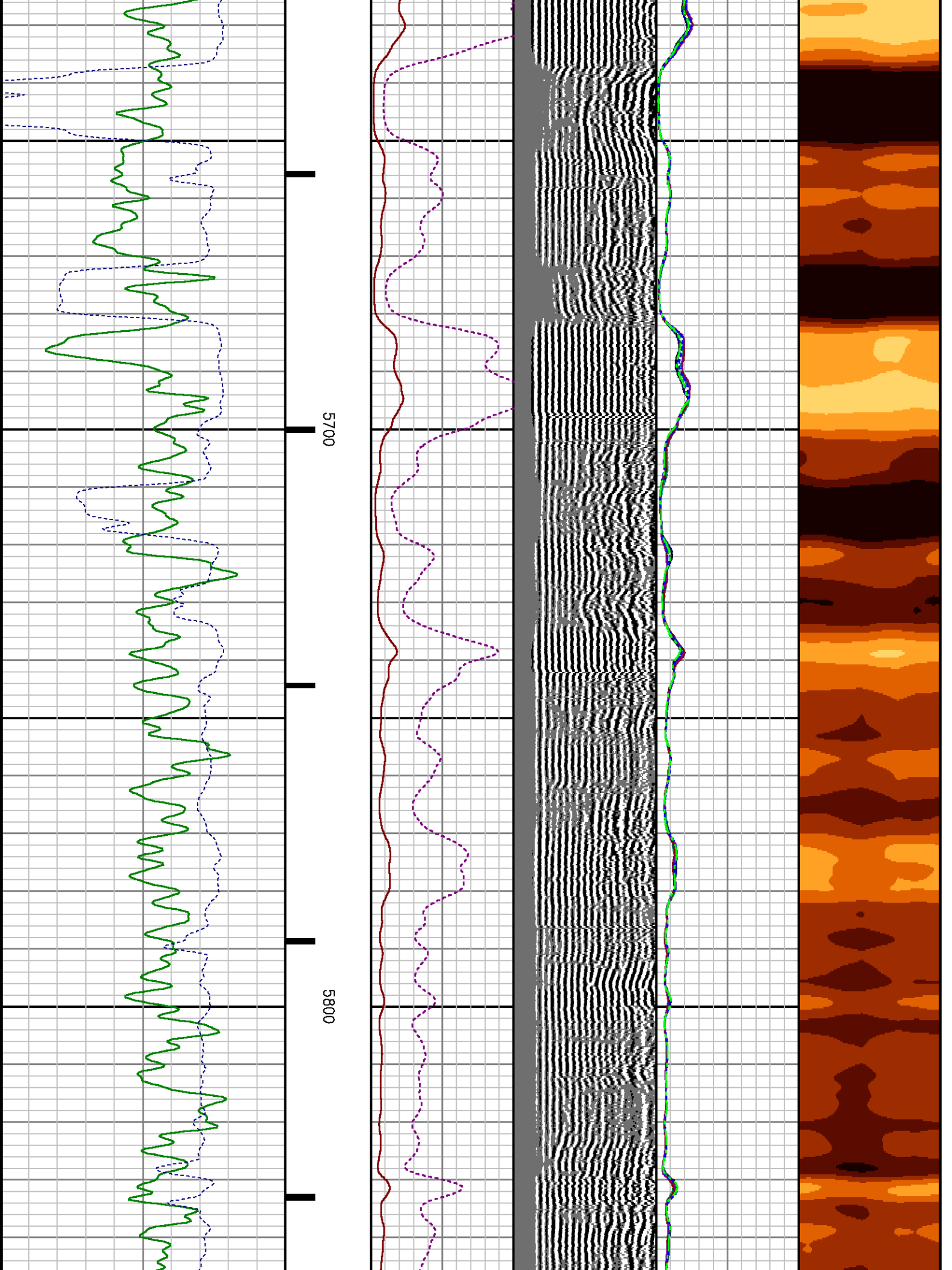


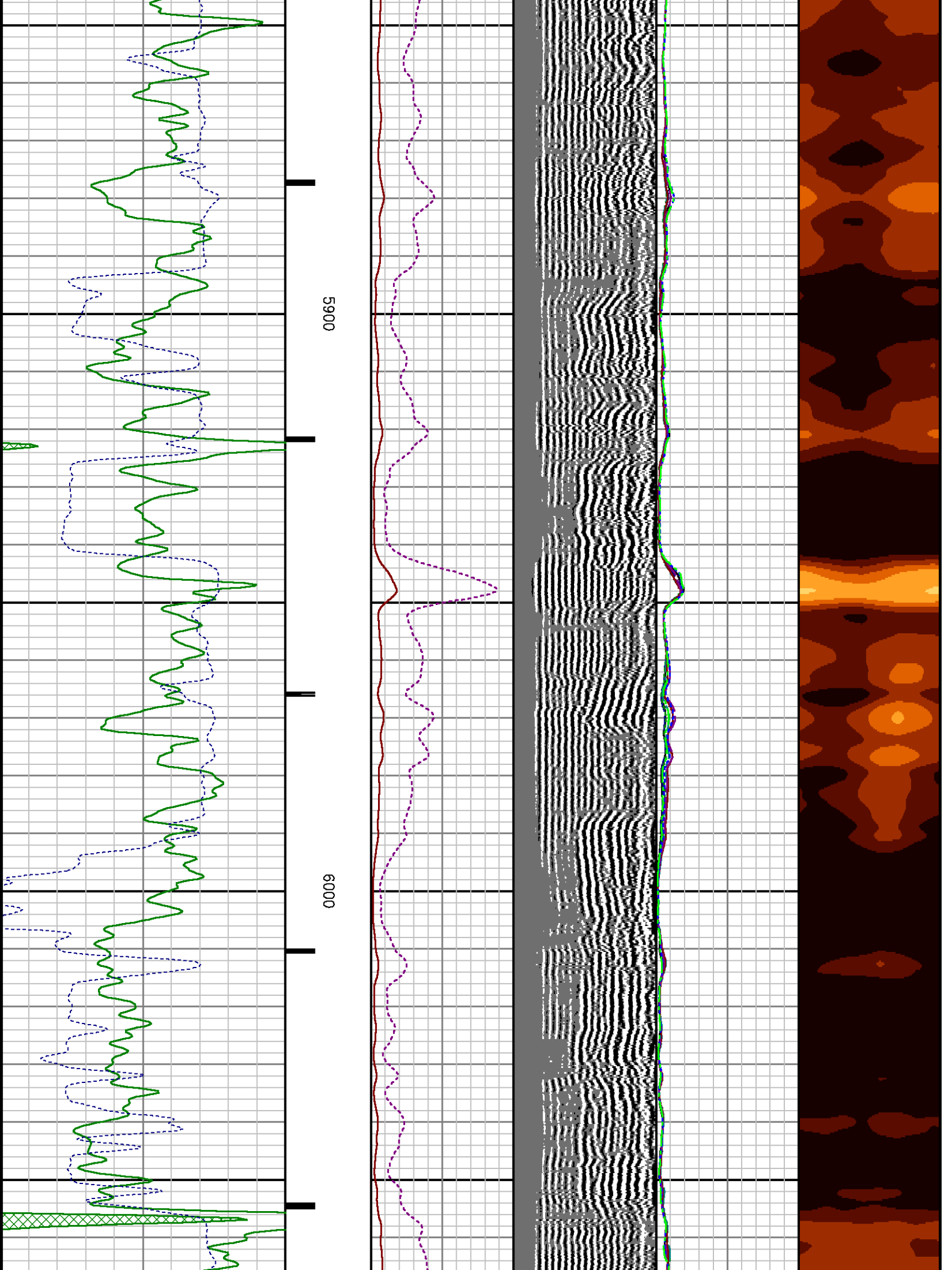


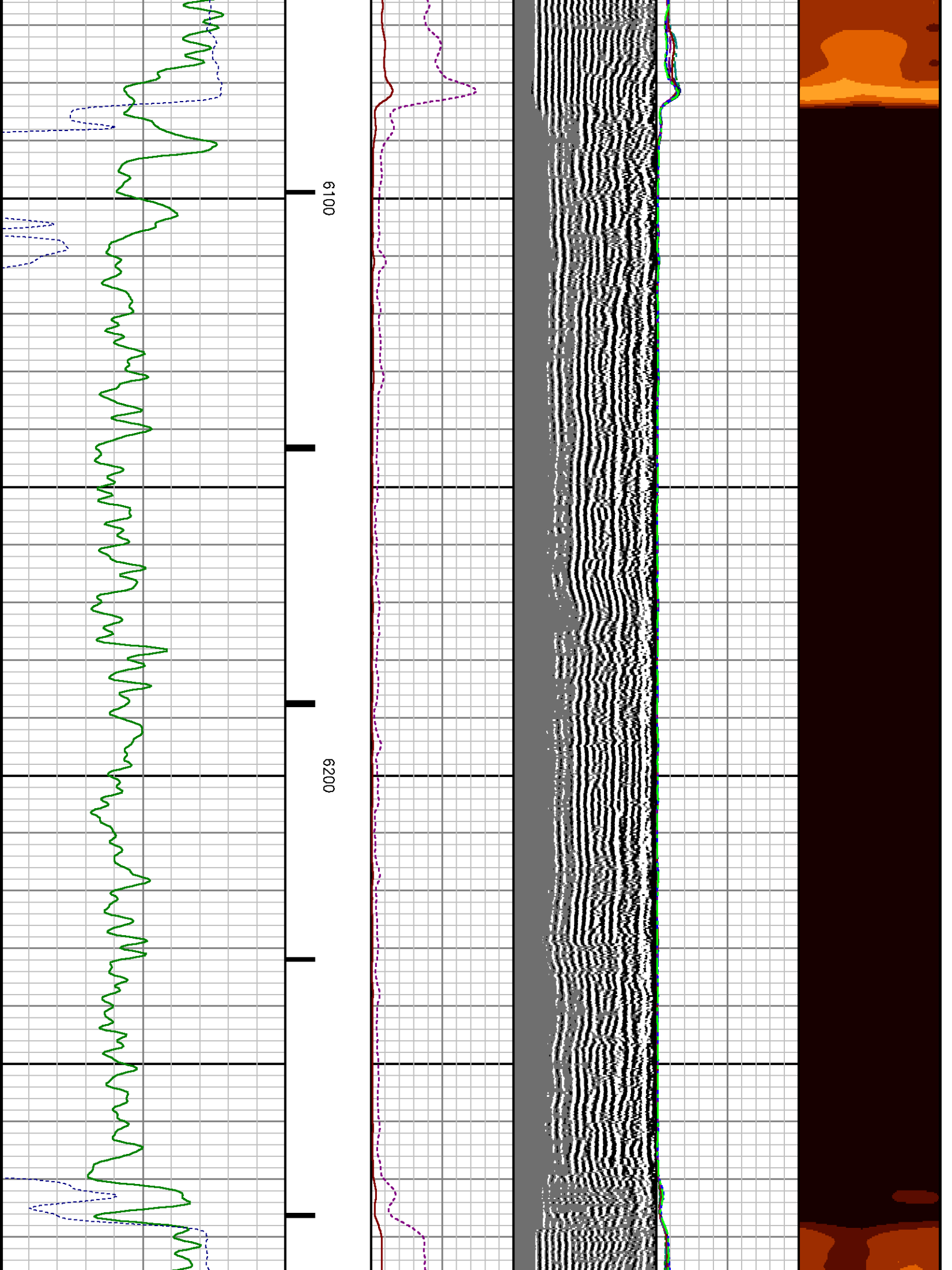


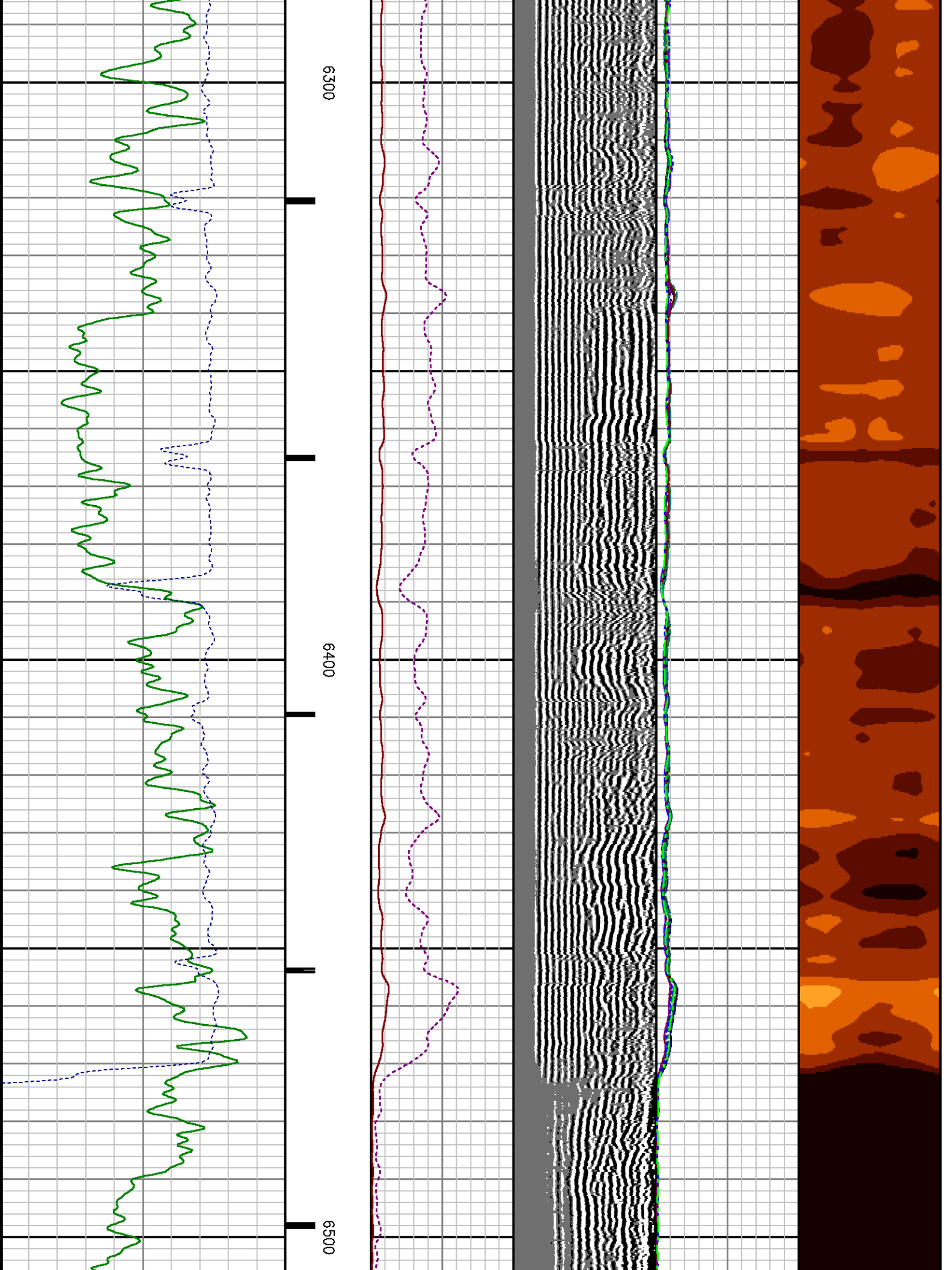


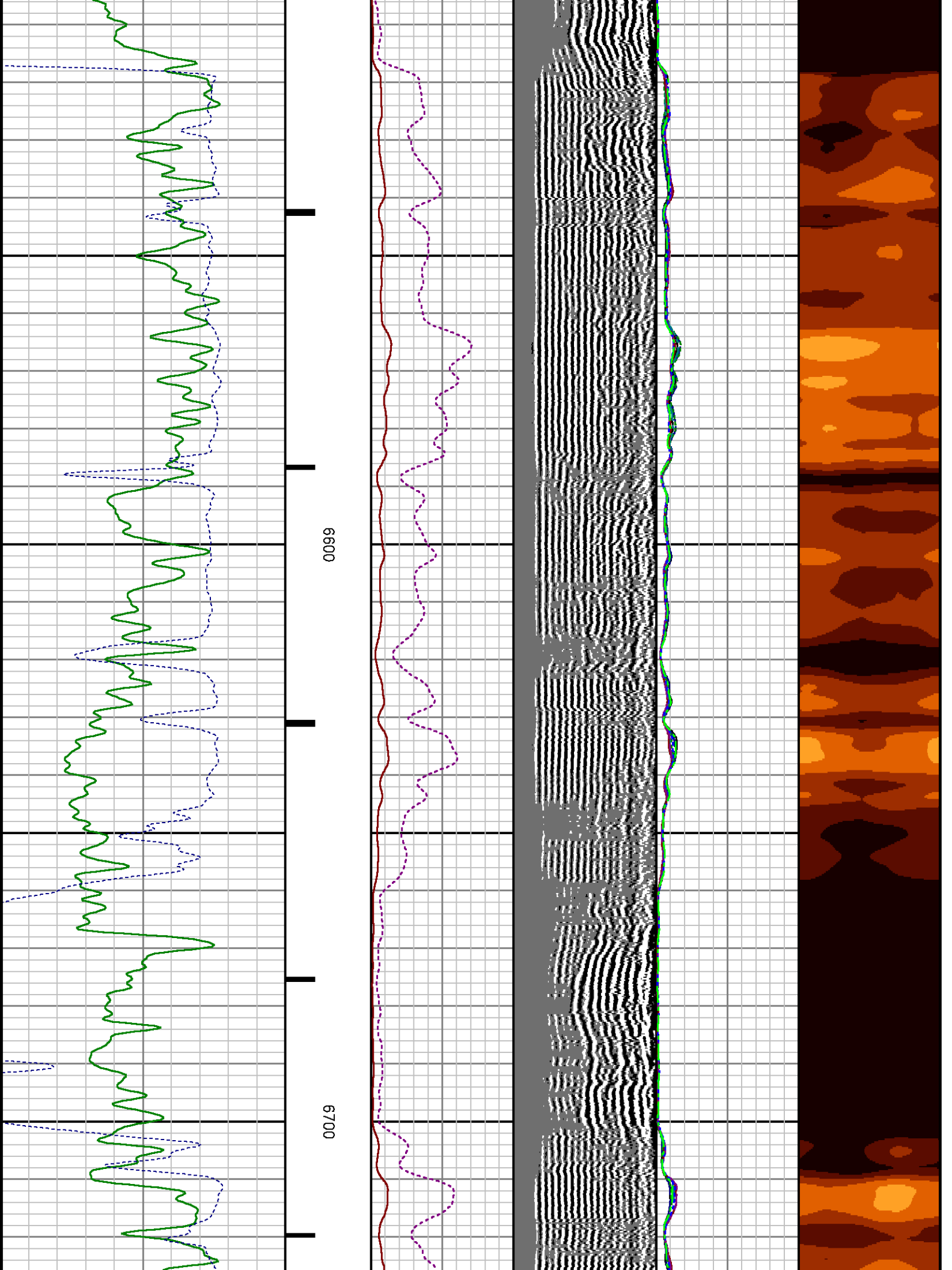


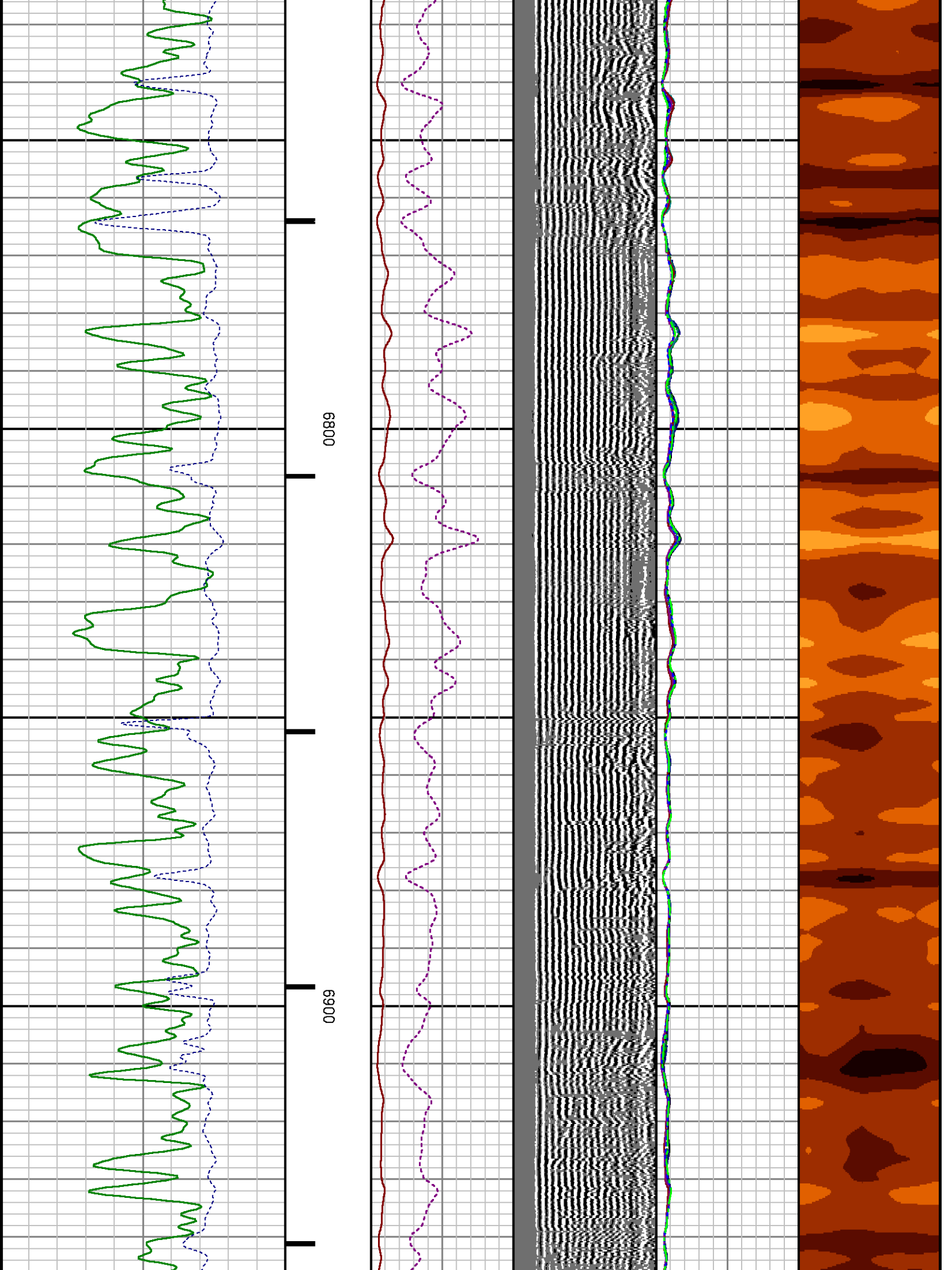


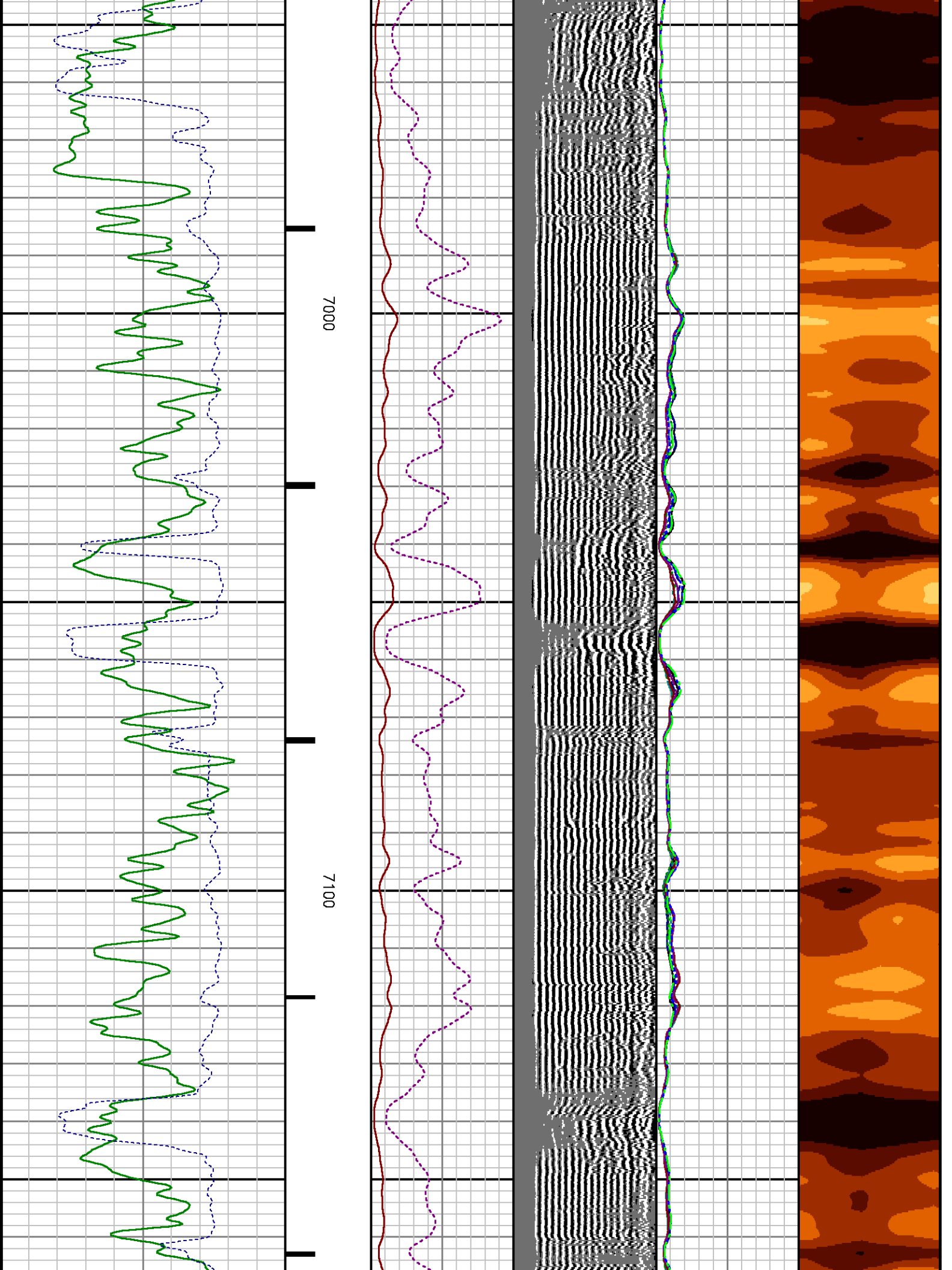


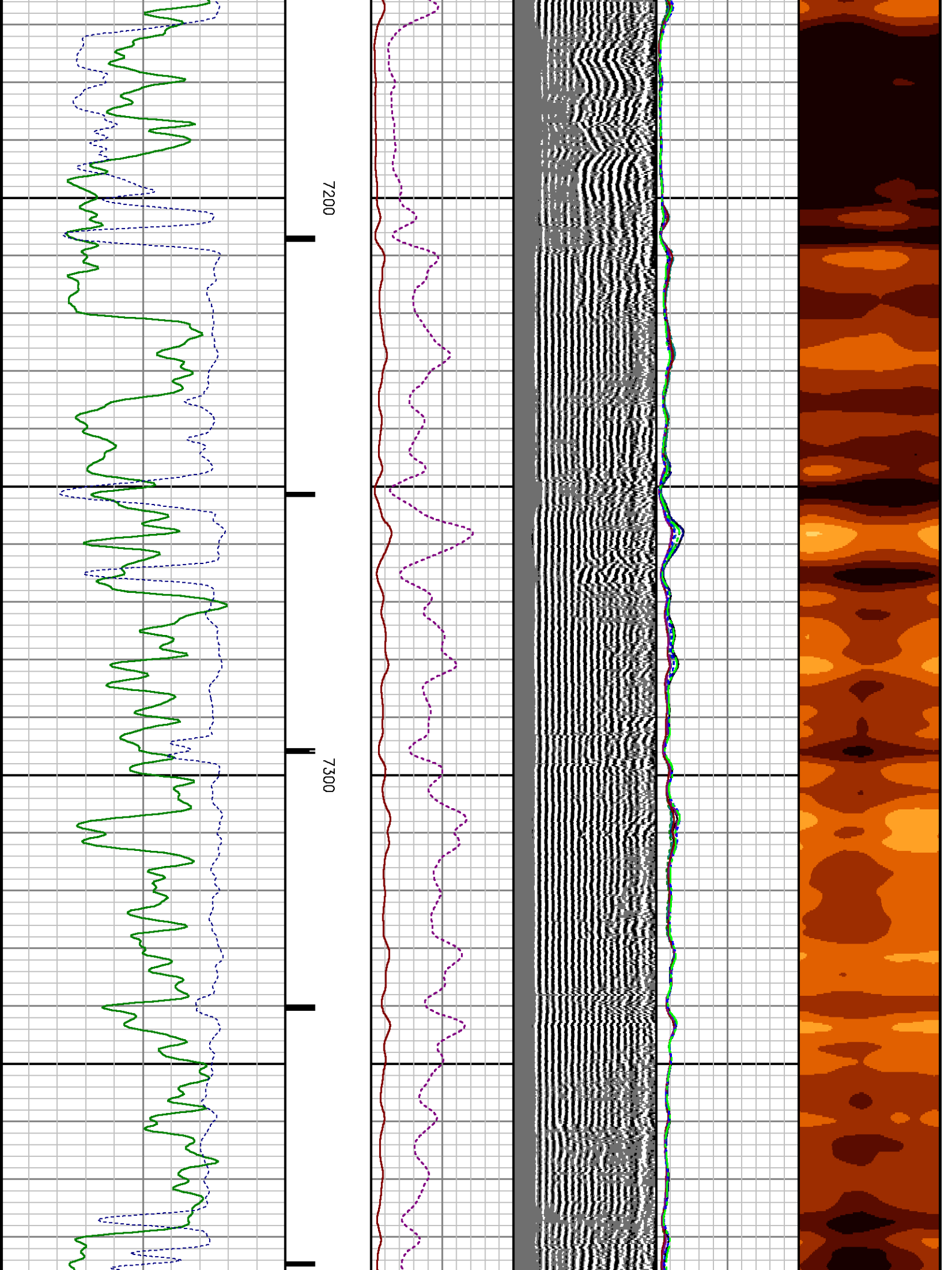


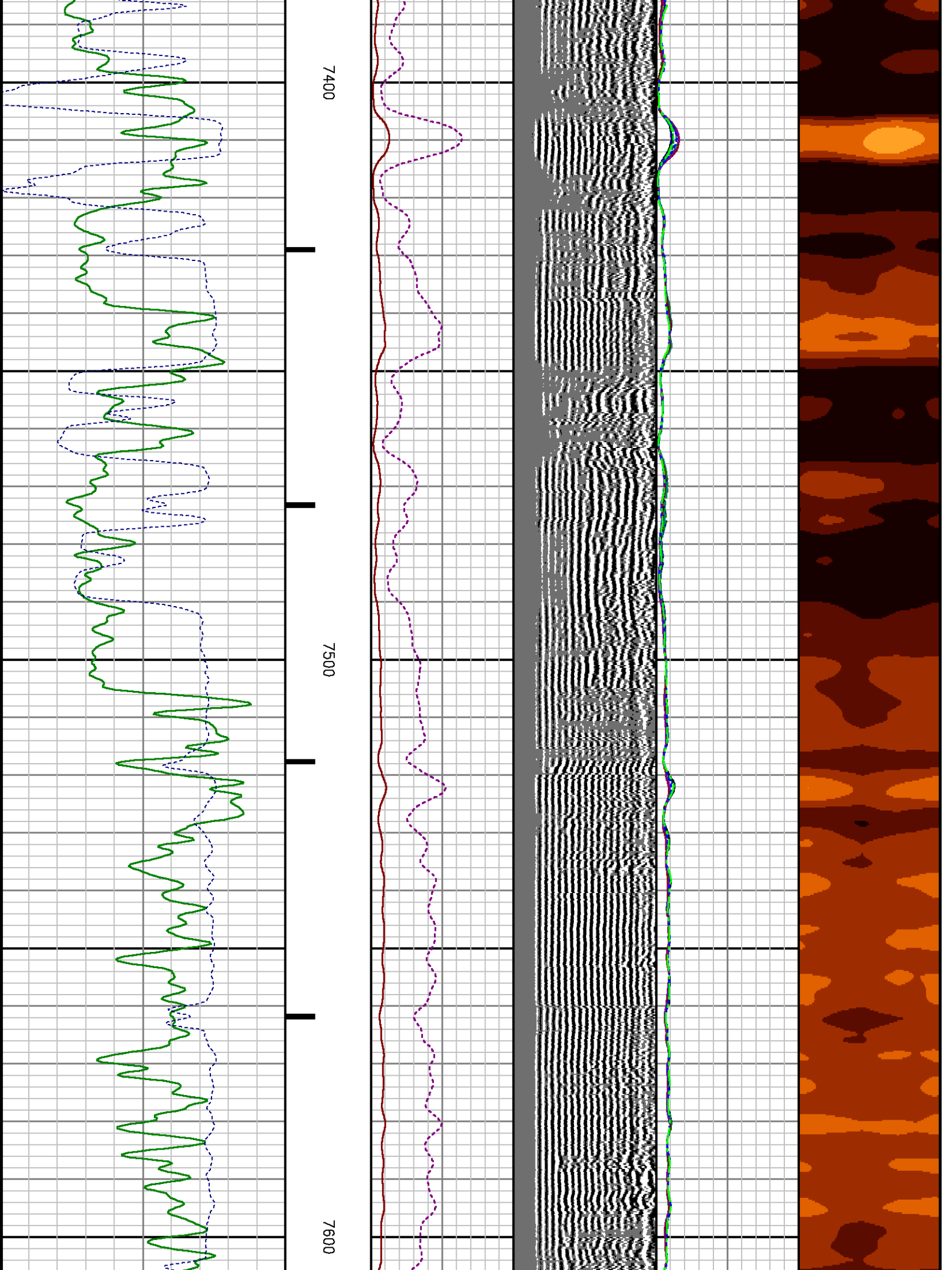


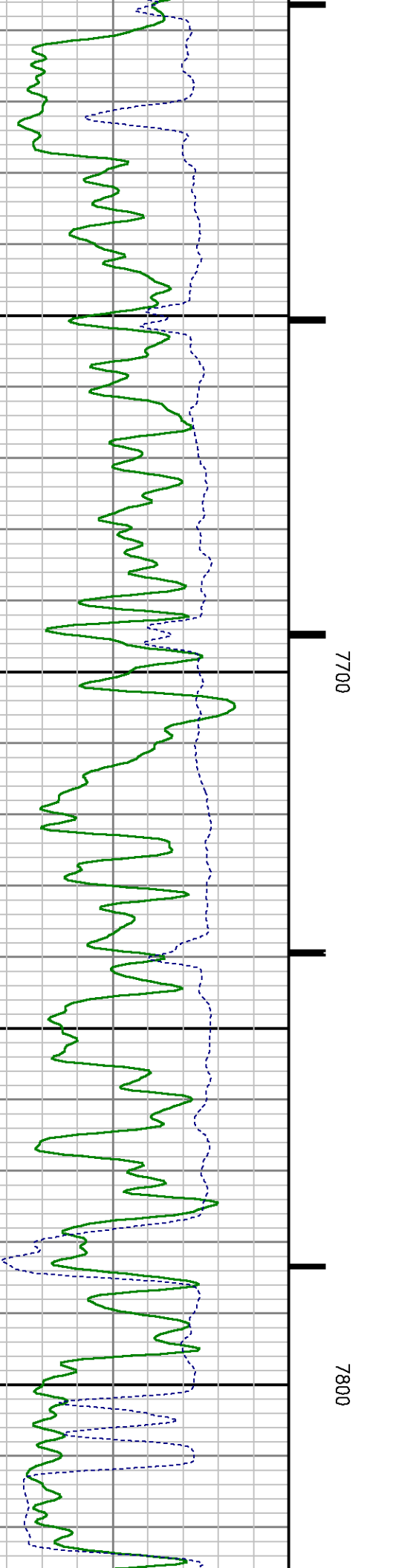
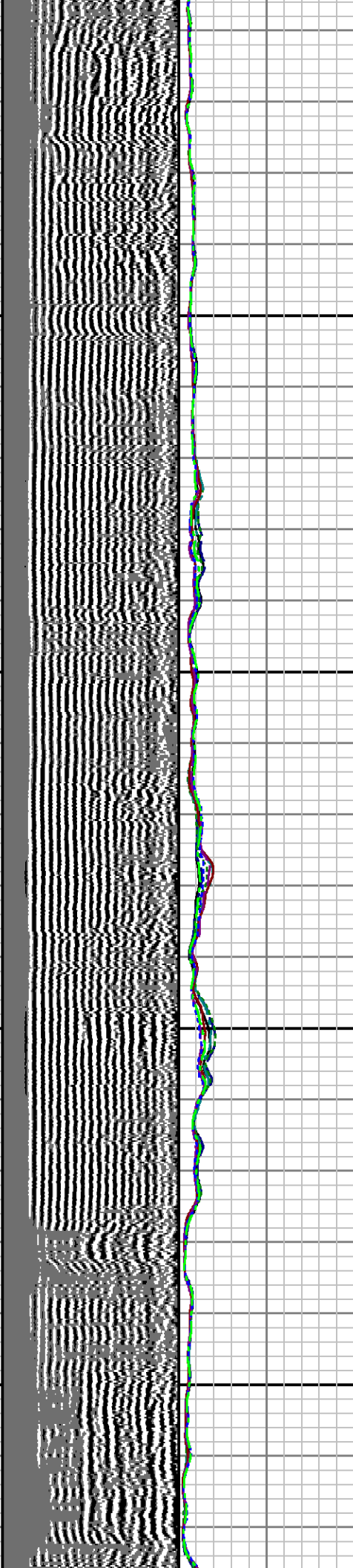
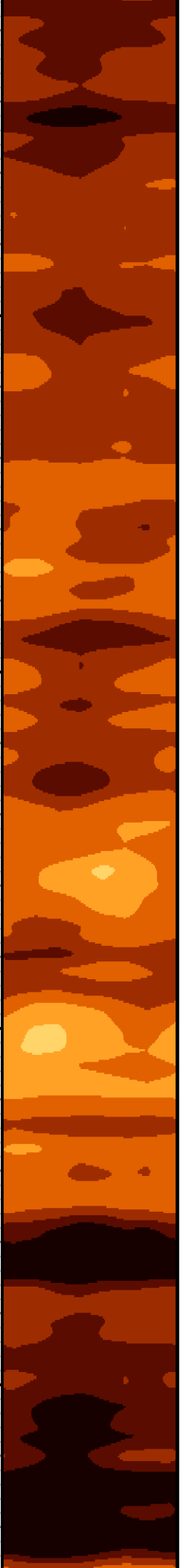


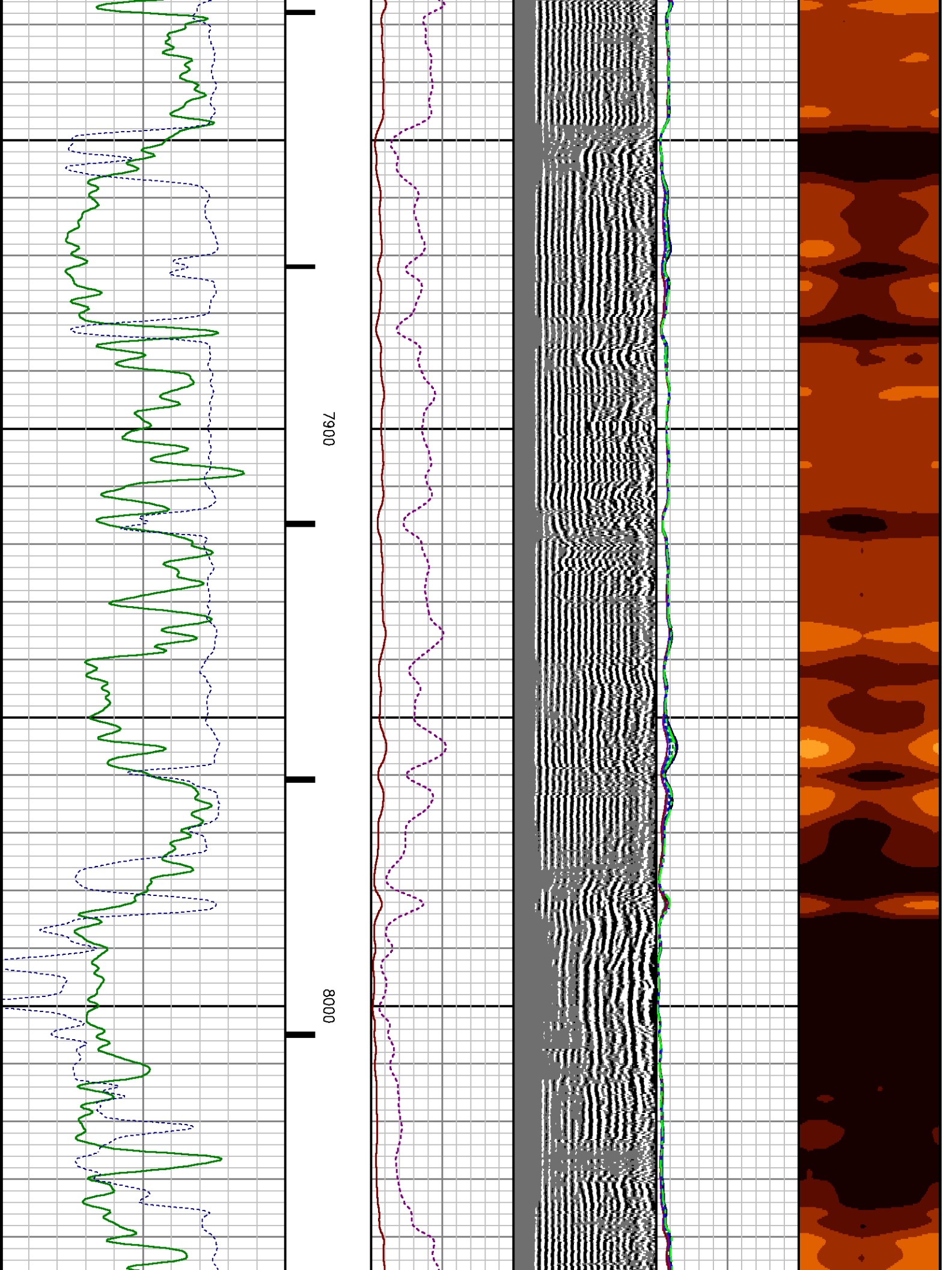


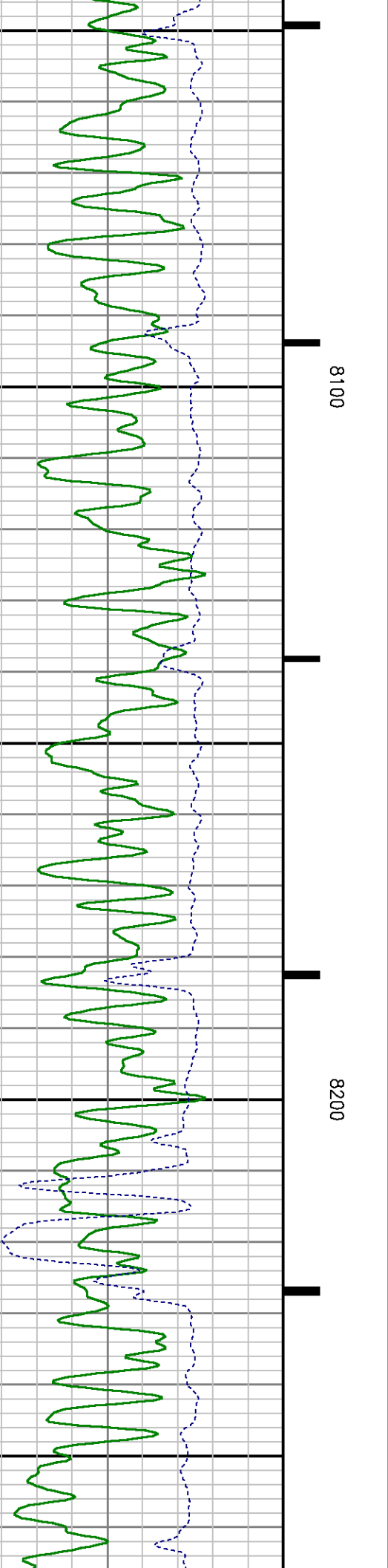
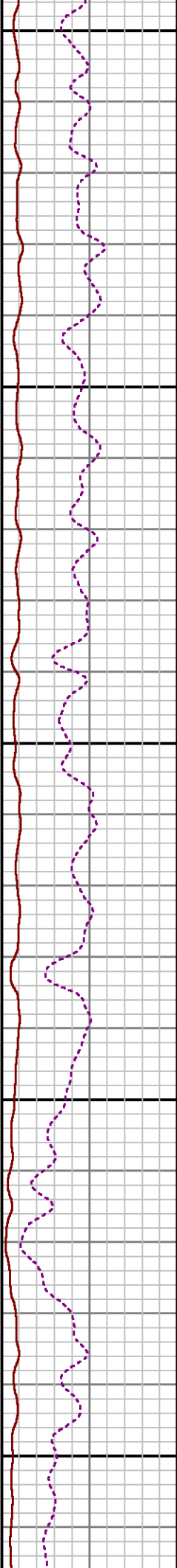
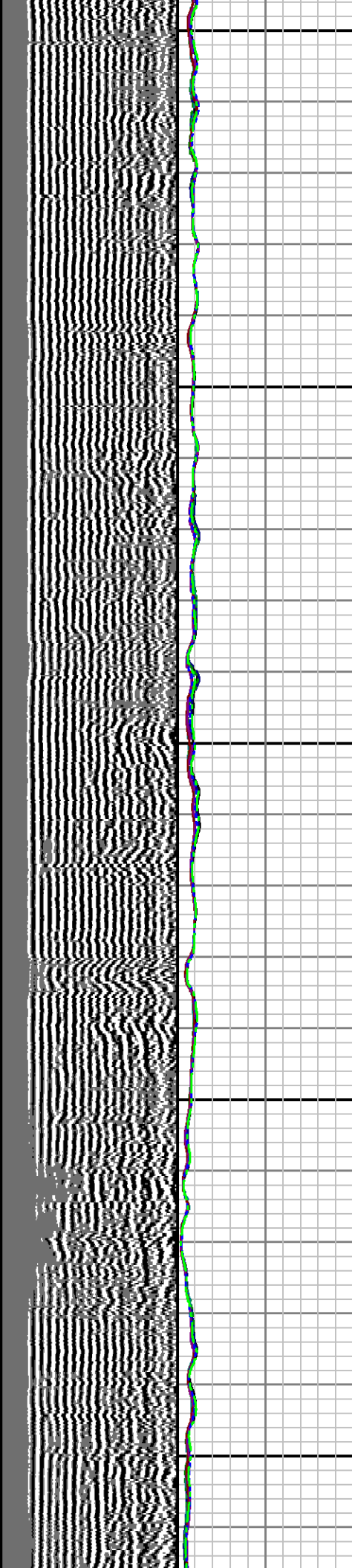
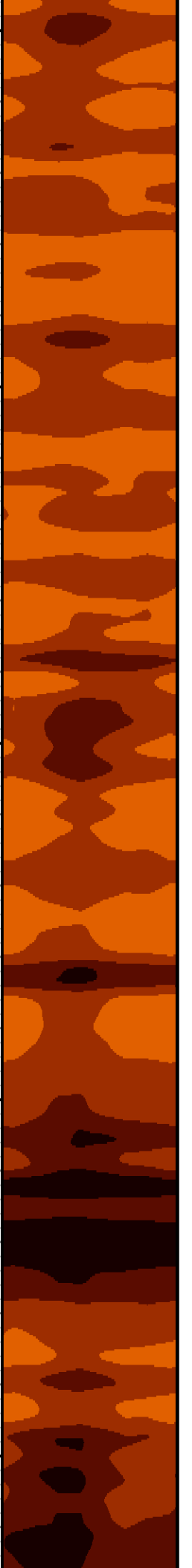


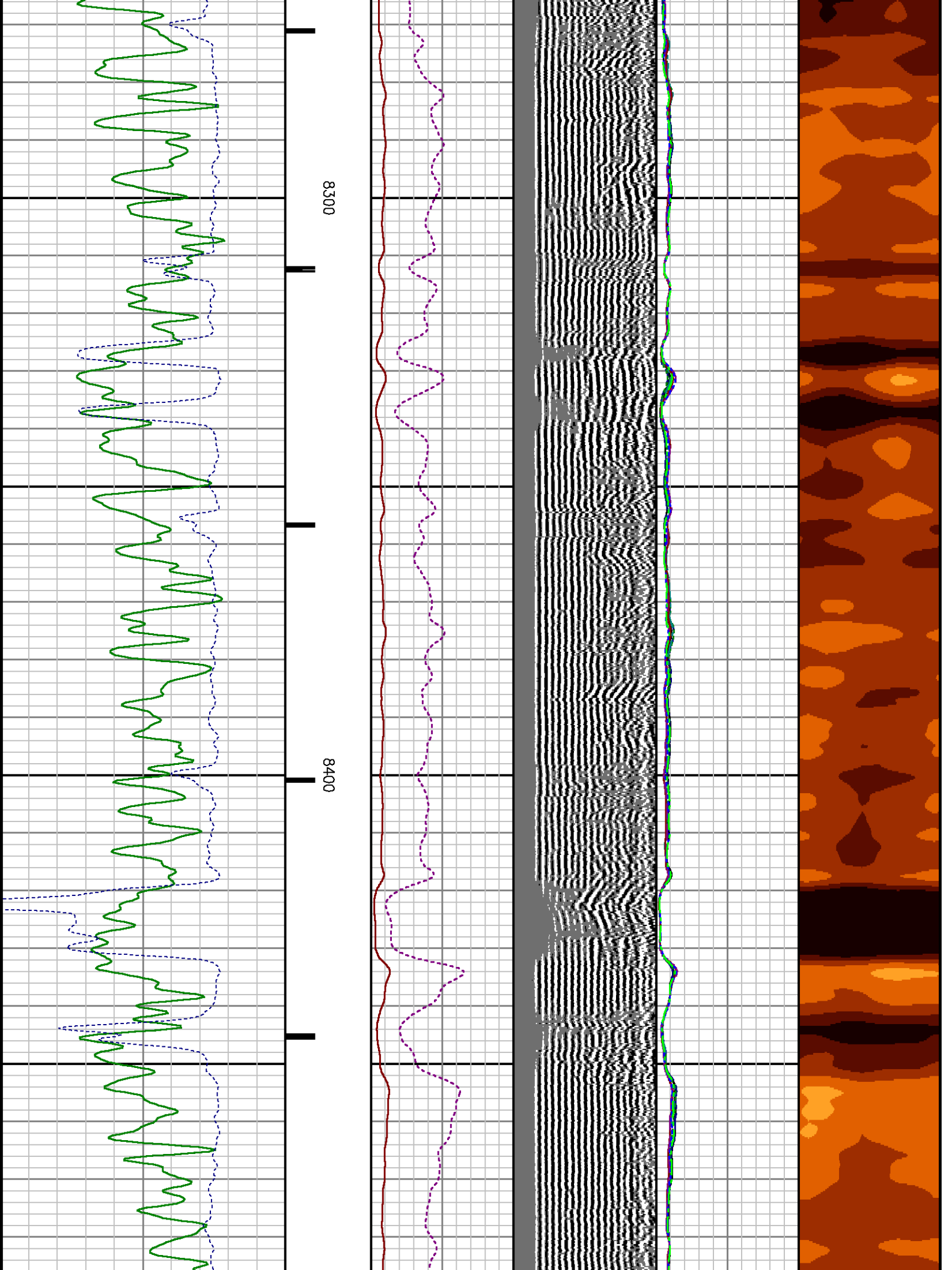


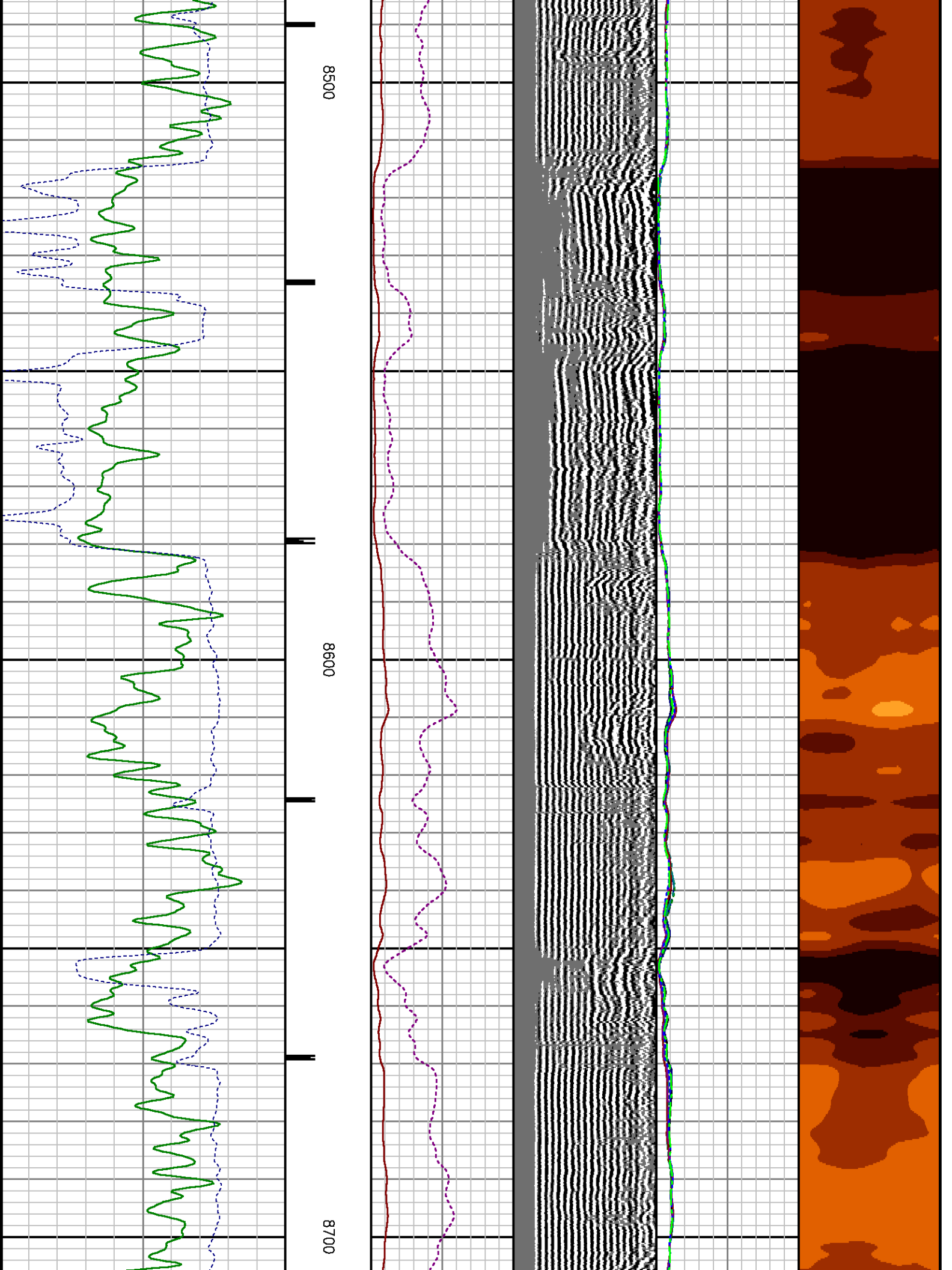


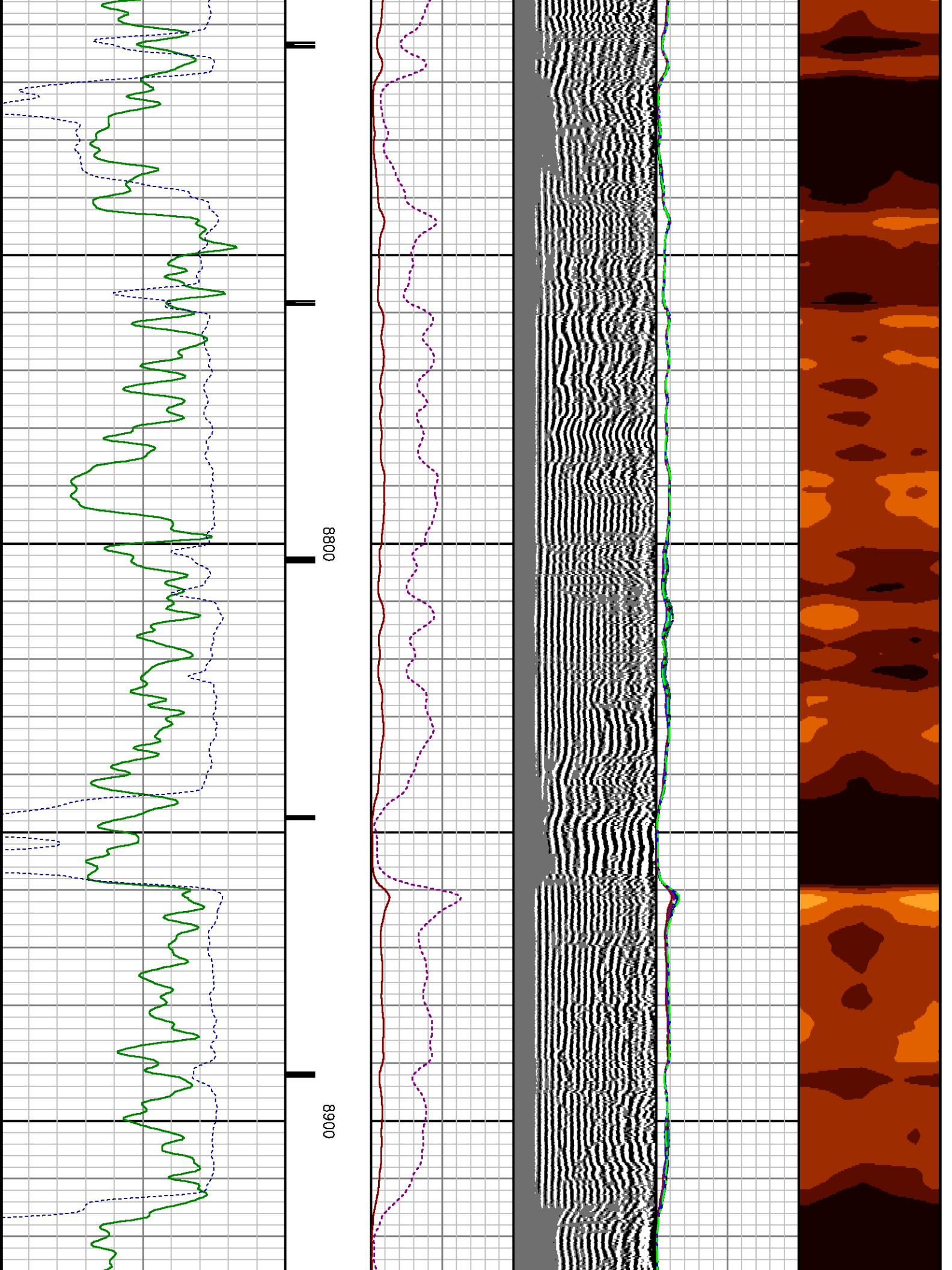


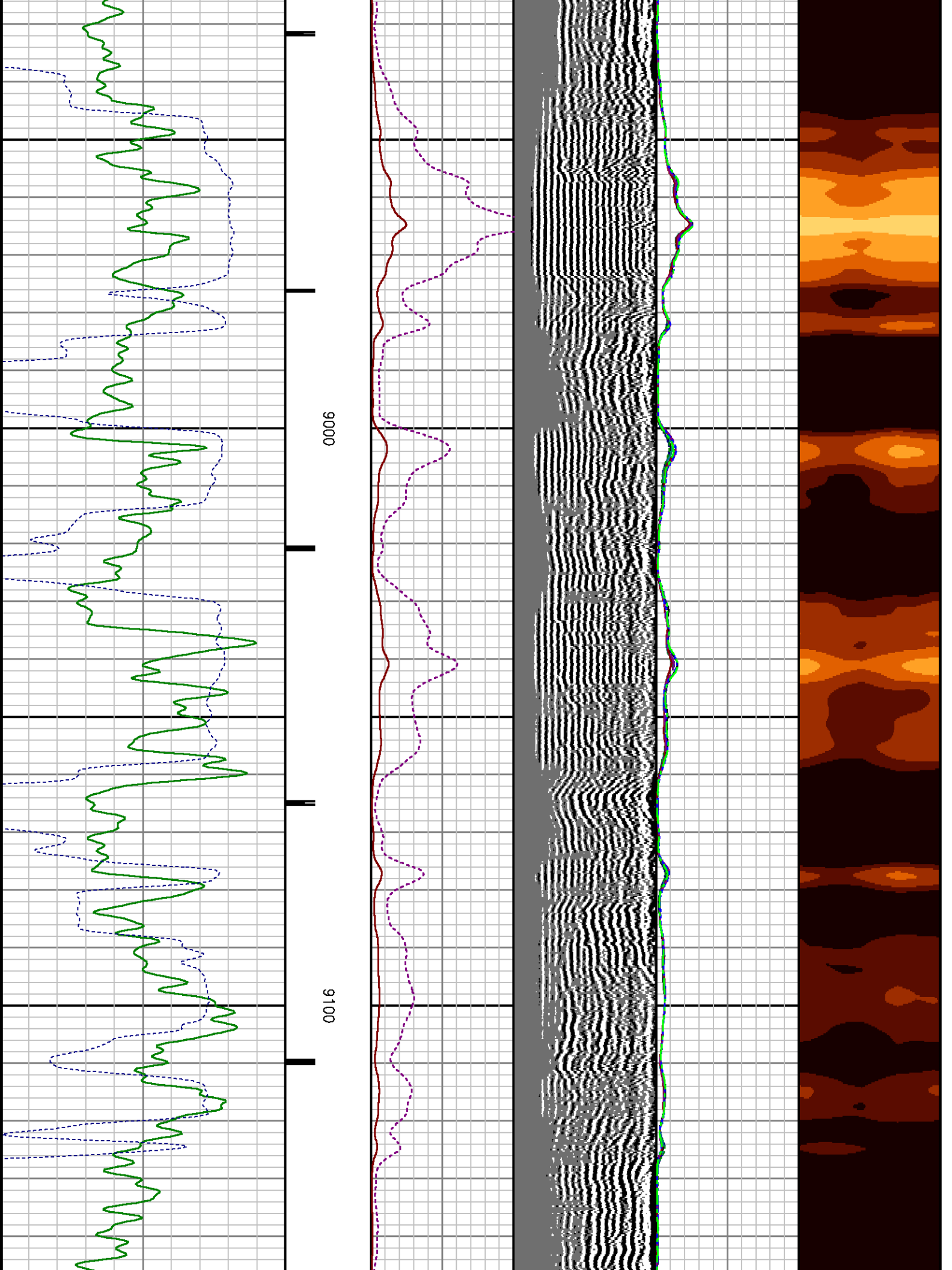


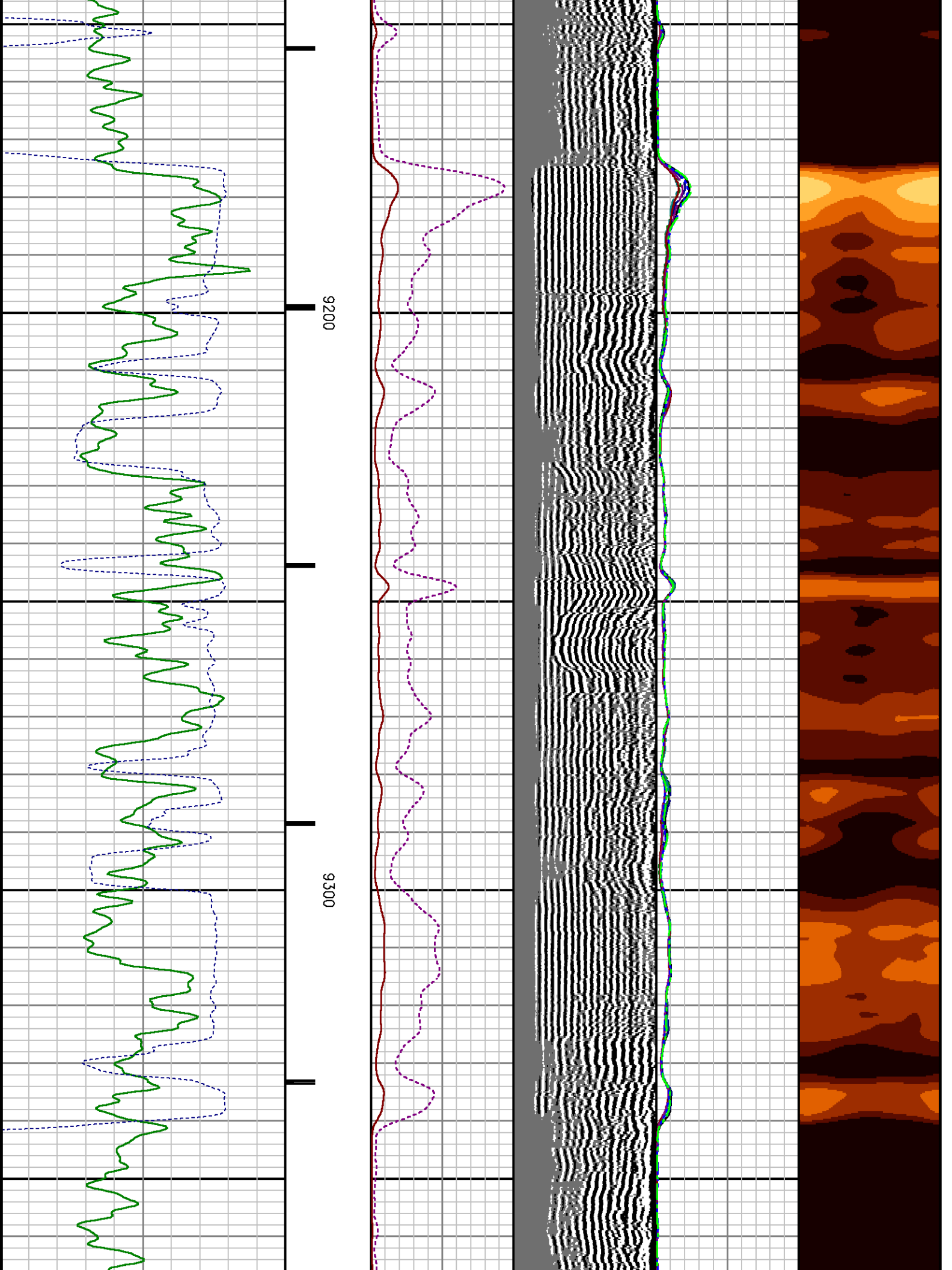


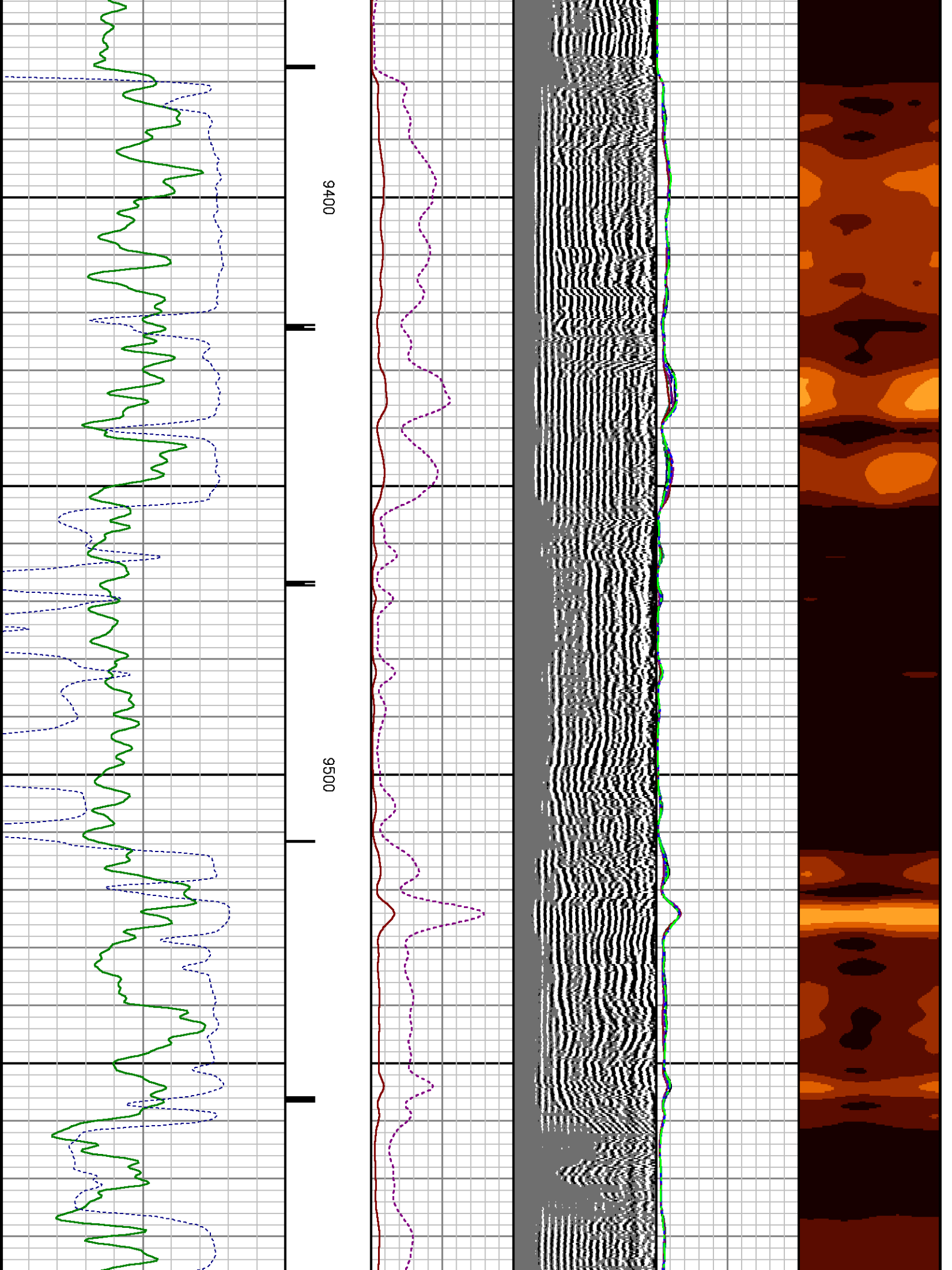


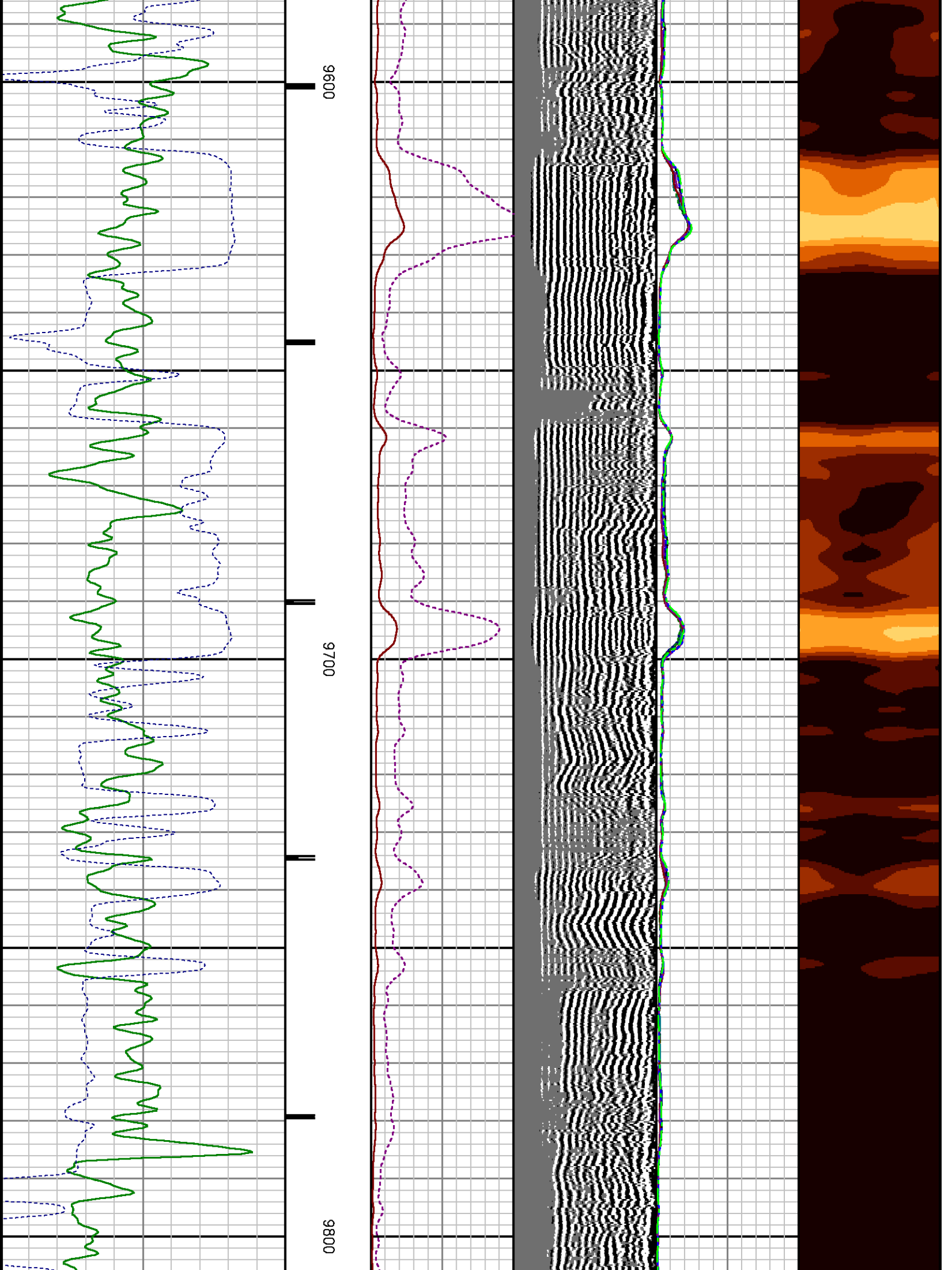


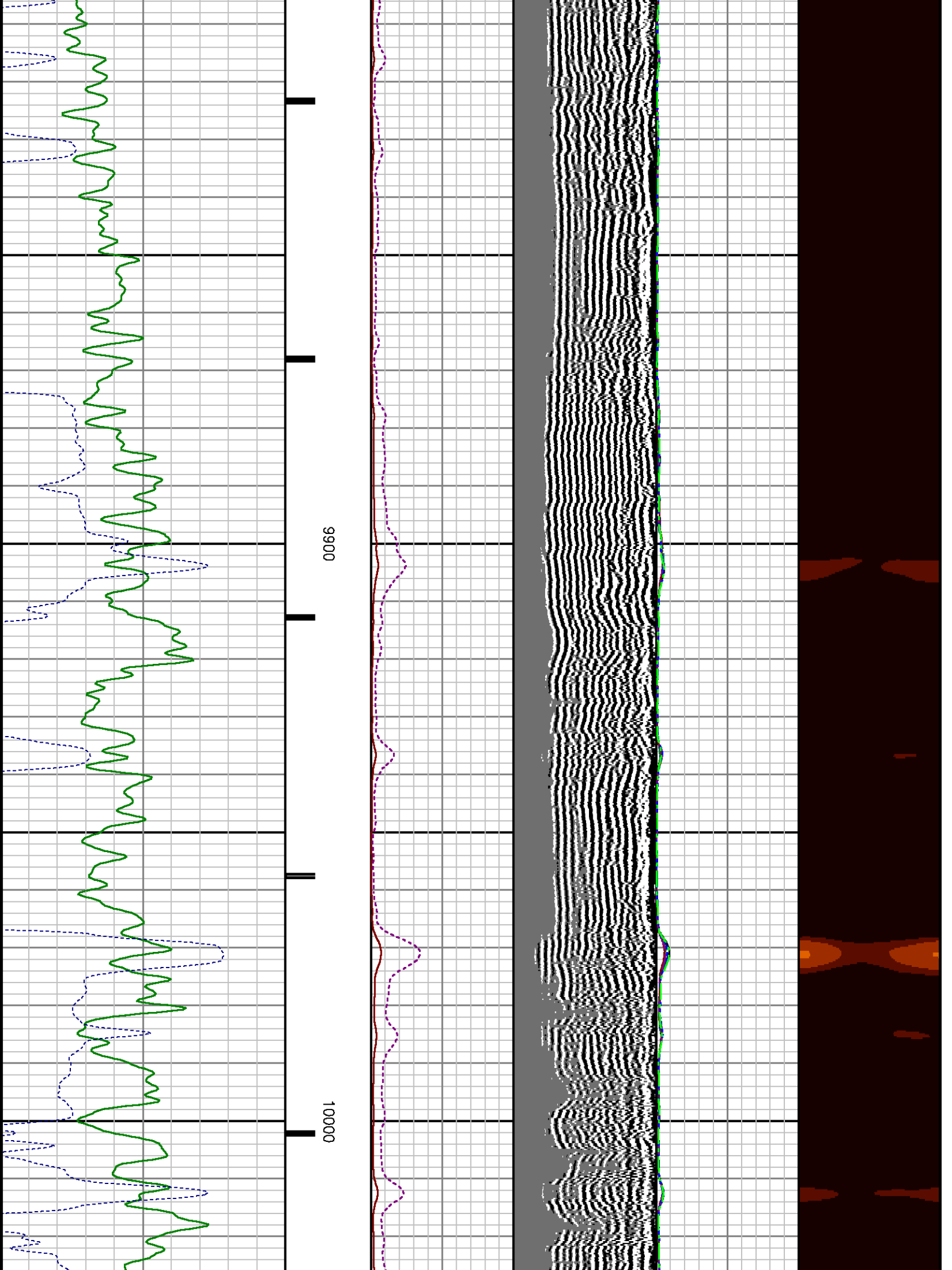


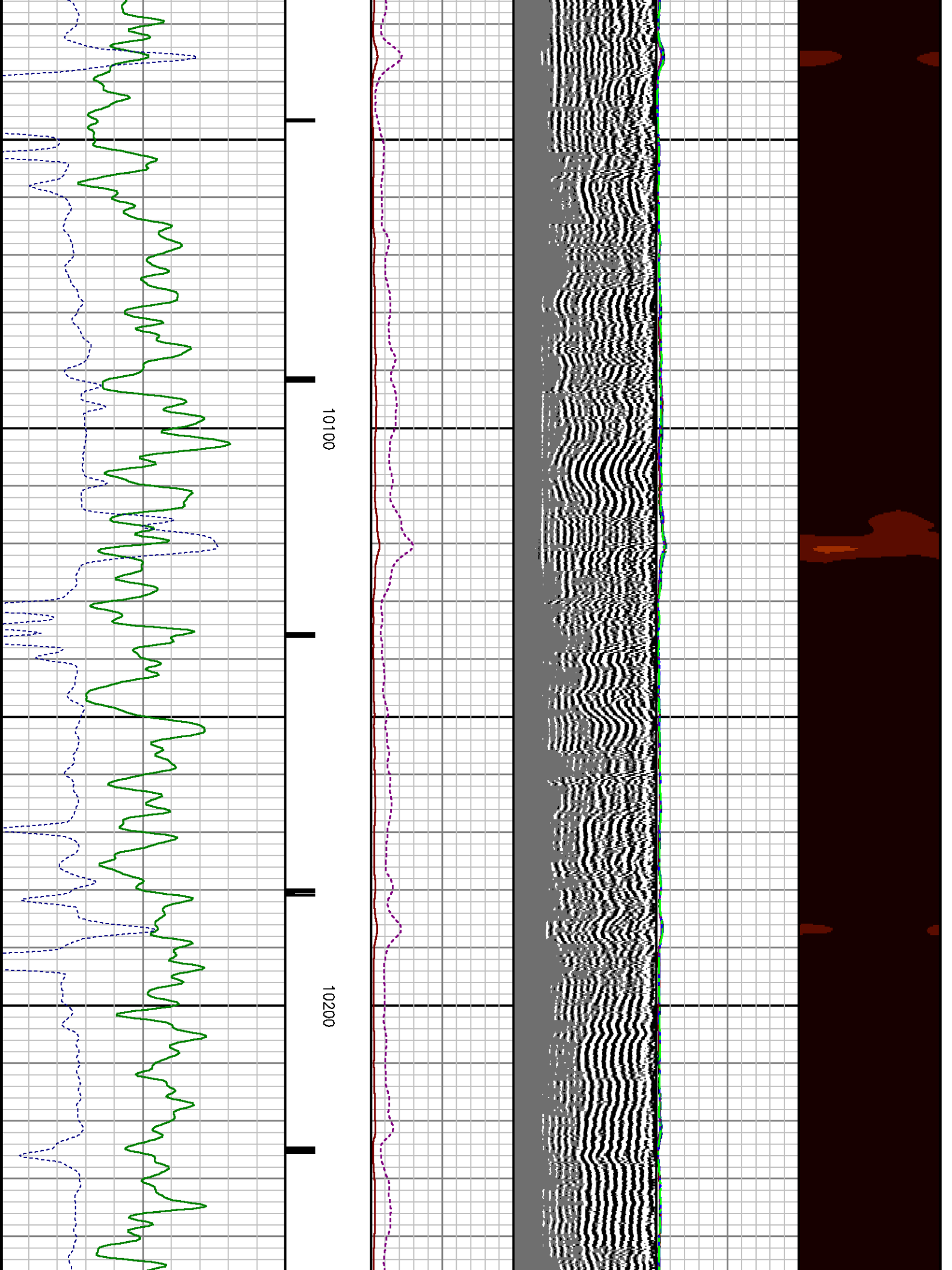


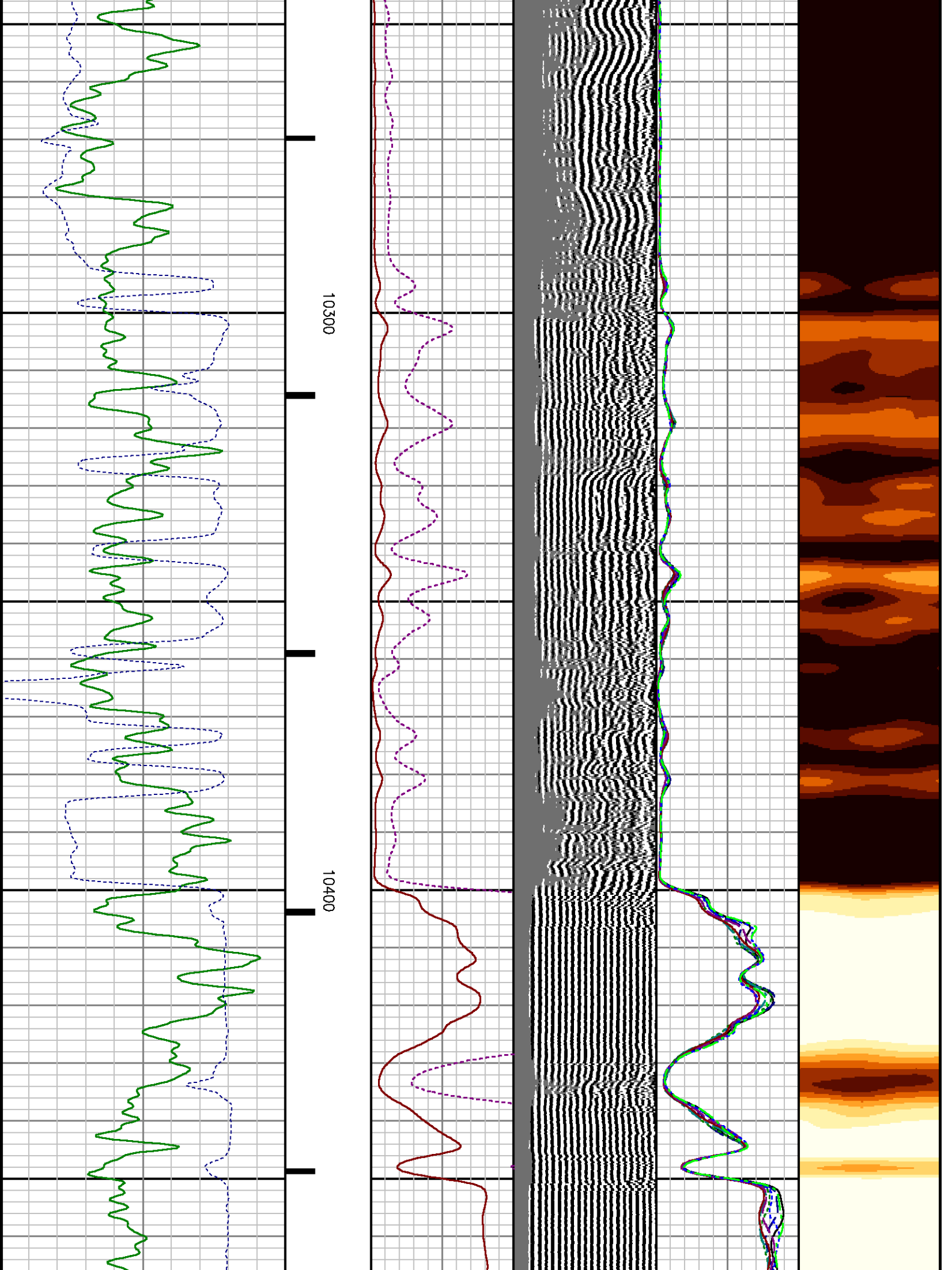


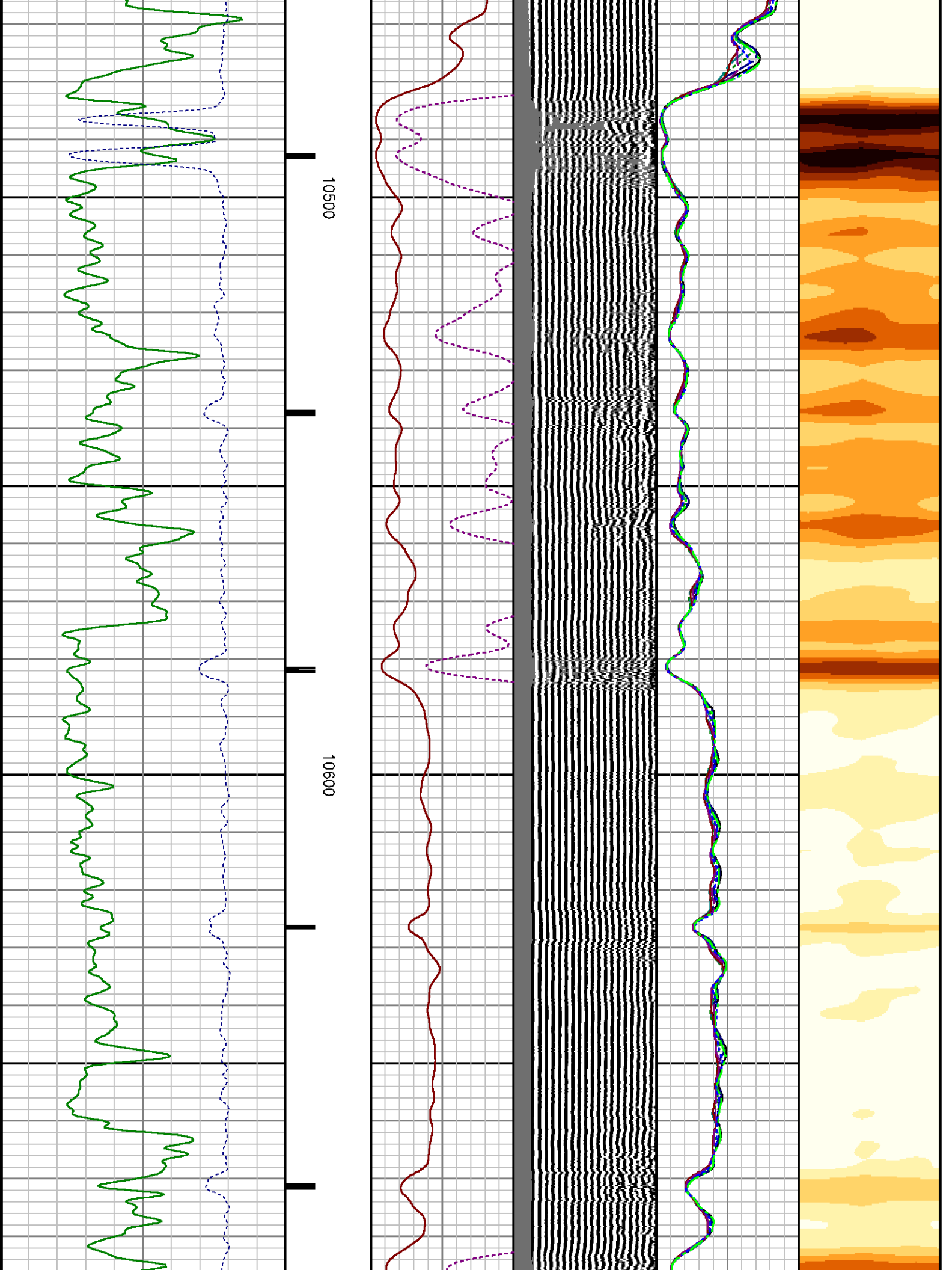


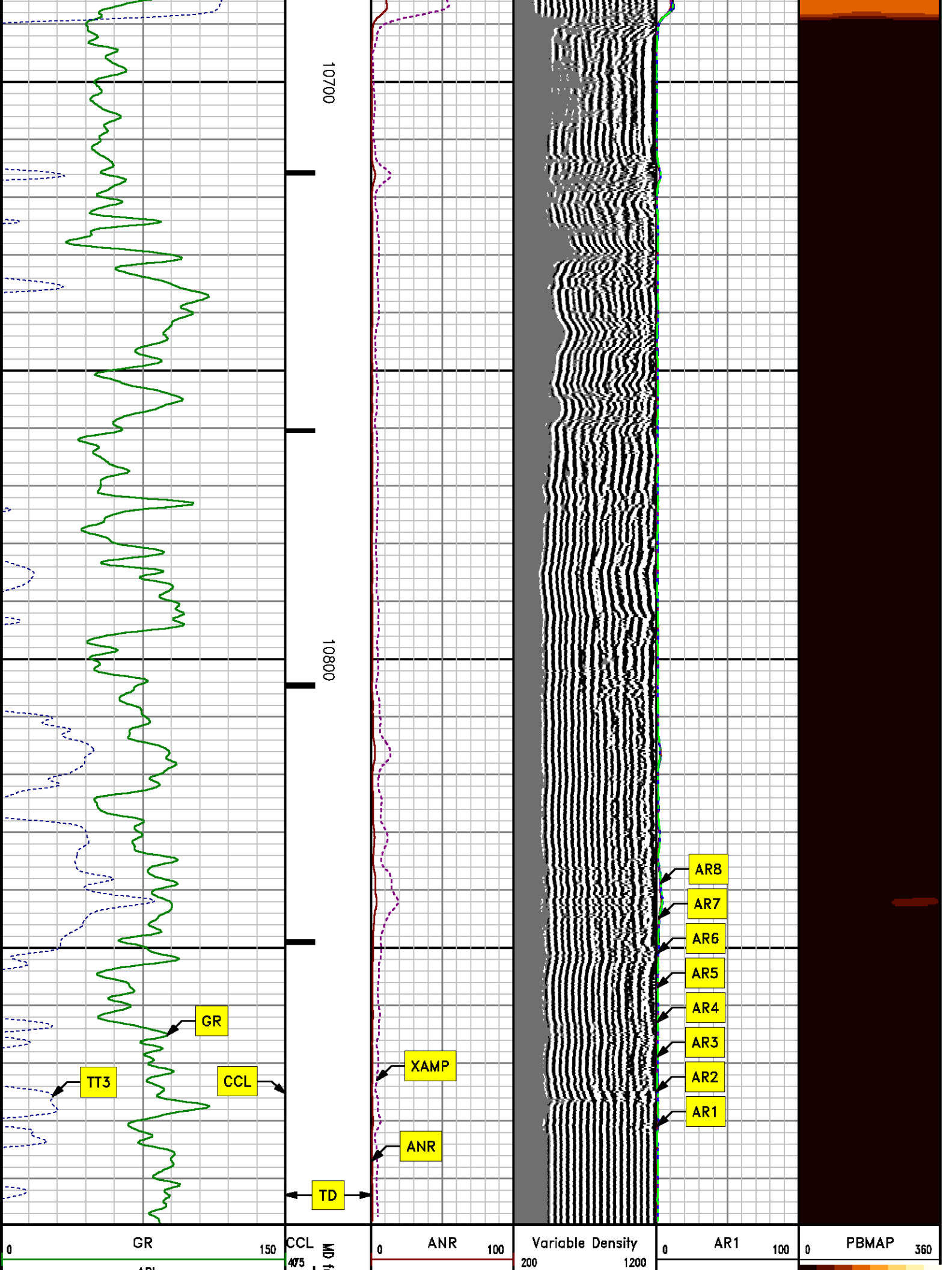


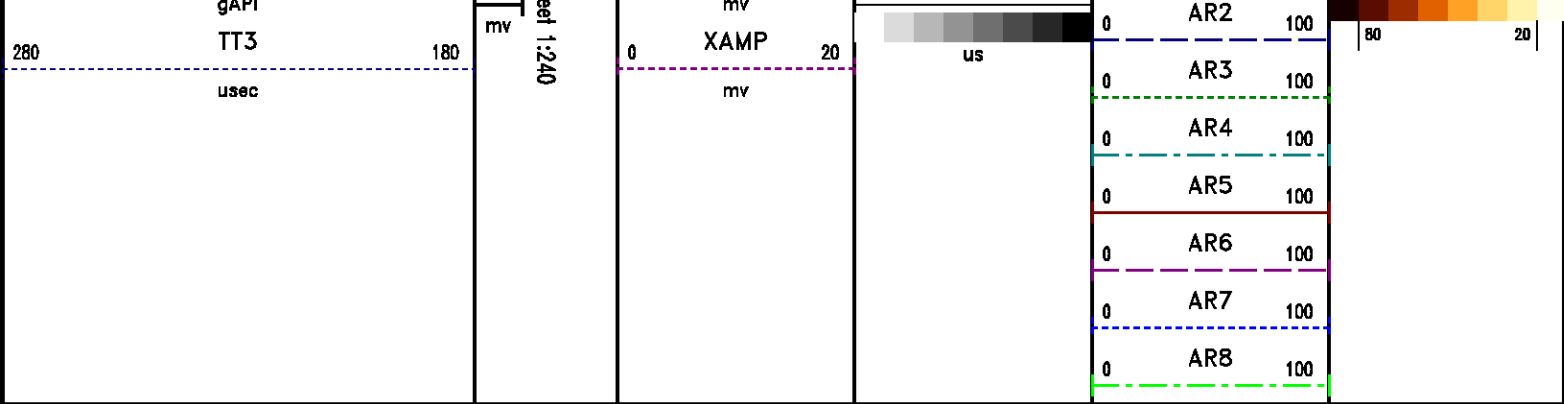












REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	10577.500	10912.750
RAL	Amp Gate Start Near	195.000	usec	10577.500	10912.750
RAL	Amp Gate Start Radial	195.000	usec	10577.500	10912.750
RAL	Amp Gate Width Far	25.000	usec	10577.500	10912.750
RAL	Amp Gate Width Near	25.000	usec	10577.500	10912.750
RAL	Amp Gate Width Radial	25.000	usec	10577.500	10912.750
RAL	casing od	4.500	inches	10577.500	10912.750
RAL	casing wt	11.600	lbm/ft	10577.500	10912.750
RAL	FB Start Far	291.900	usec	10577.500	10912.750
RAL	FB Start Near	175.391	usec	10577.500	10912.750
RAL	FB Start Radial	175.391	usec	10577.500	10912.750
RAL	FB Thresh Far	10.000	mv	10577.500	10912.750
RAL	FB Thresh Near	4.000	mv	10577.500	10912.750
RAL	FB Thresh Radial	4.000	mv	10577.500	10912.750
RAL	Fluid Travel Time	200.000	usec/ft	10577.500	10912.750

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1100001	10.750	AR1	AR2	AR3	AR4	AR5	AR6

1426XA -16.750
 2459XA -11.340
 2459XA -9.490
 2459XA -4.090

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					
NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

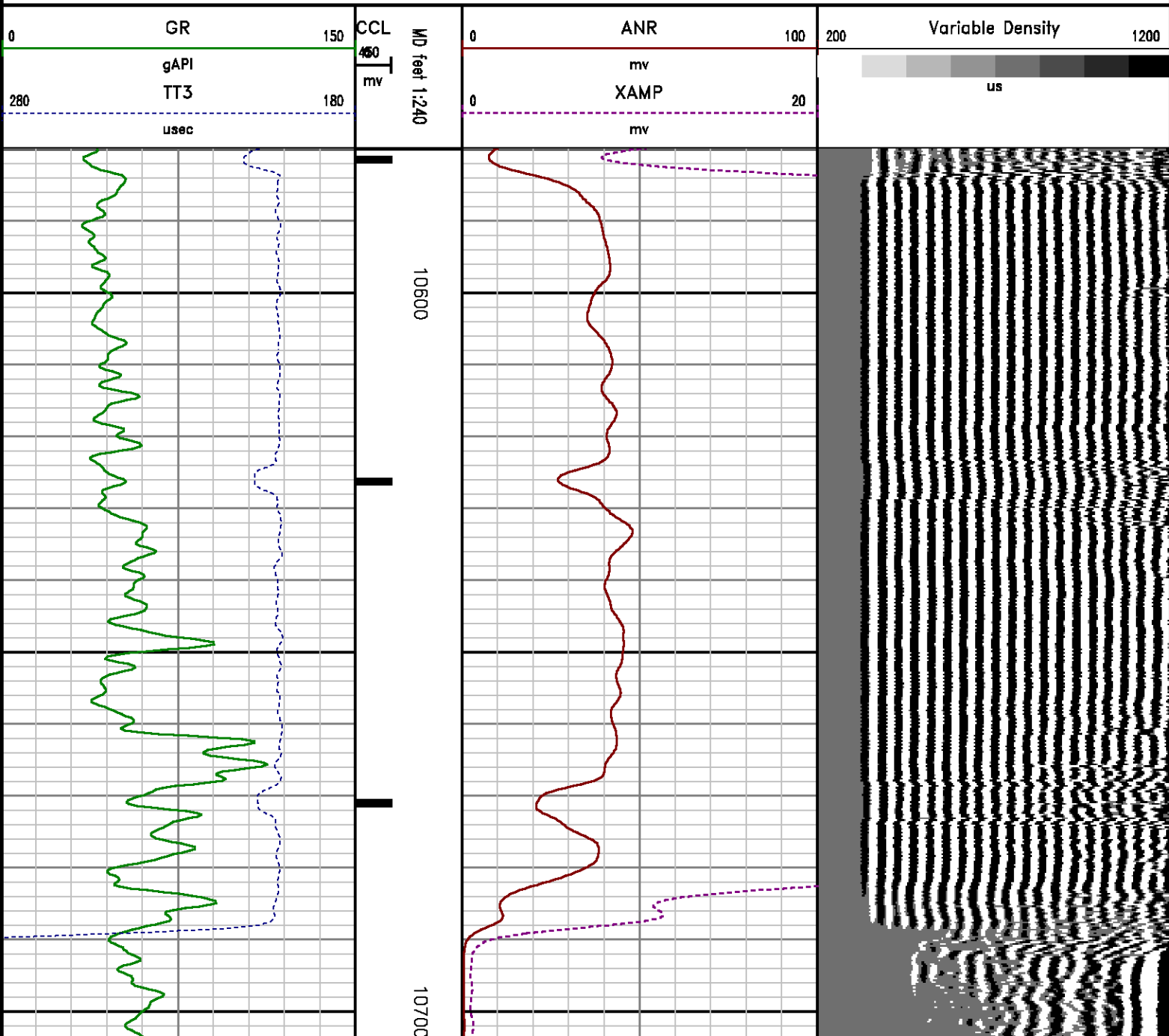
Well : FEDERAL RG 42-15-298

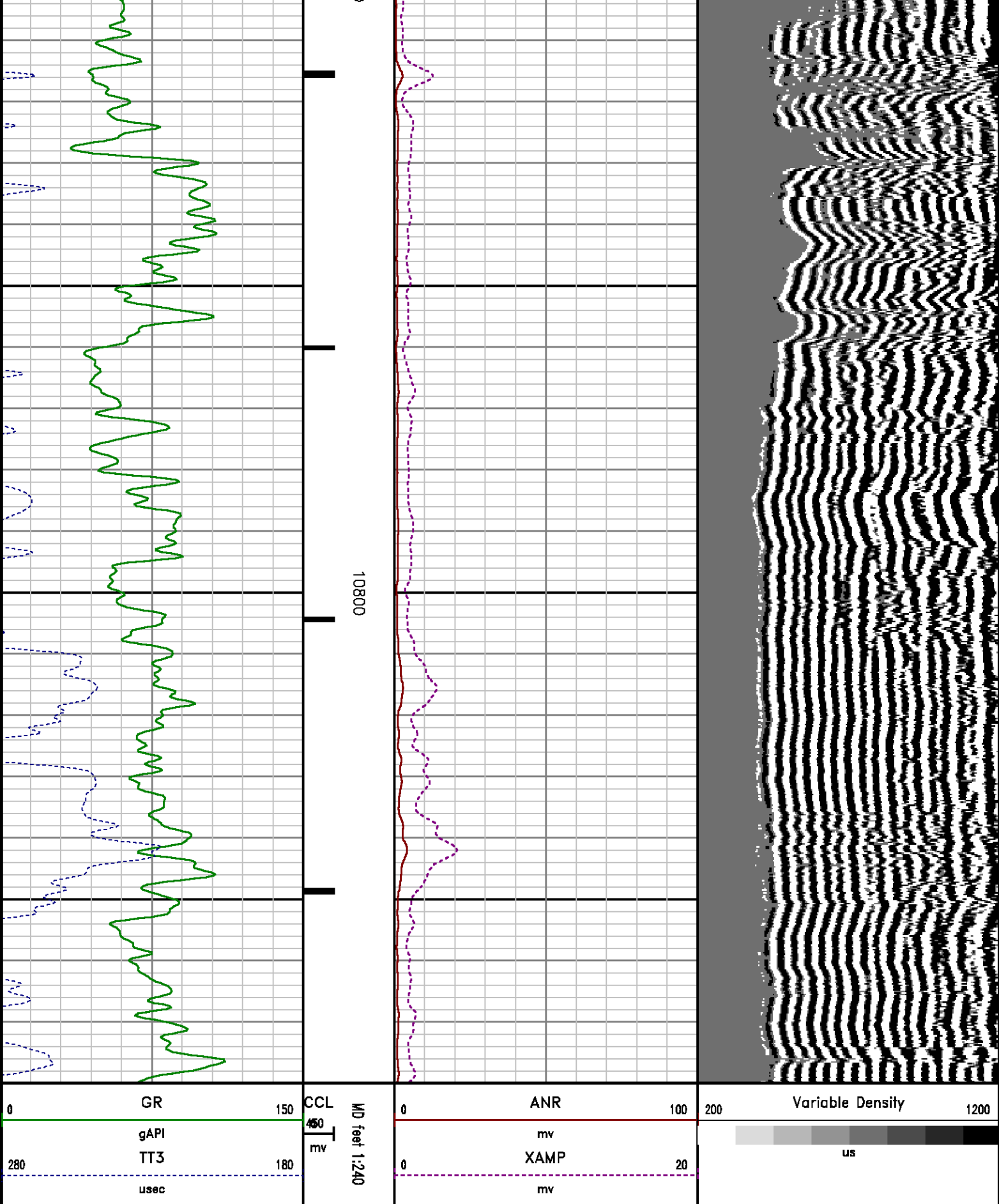
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Mode : PlotMgr 5.4.504

Interval : 10580.00 - 10880.00 feet UP

Created : 1/23/2014 6:23:39 PM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496J22_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jan 22 19:02:05 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: J22

Tool Delay [usec] -55.00 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	218	216	30	166	25	0.131	100.00	0.16
3 Ft. Receiver	218	216	30	166	7	-0.008	100.00	0.16
5 Ft. Receiver	327	325	30	244	25	0.366	150.00	0.18
Radial #1	218	216	30	166	9	-0.323	100.00	0.16
Radial #2	218	216	30	166	9	-0.281	100.00	0.16
Radial #3	218	216	30	166	9	0.192	100.00	0.16
Radial #4	218	216	30	166	9	-0.367	100.00	0.16
Radial #5	218	216	30	166	9	-0.083	100.00	0.16
Radial #6	217	216	30	166	9	-0.323	100.00	0.16
Radial #7	216	216	30	166	9	-0.288	100.00	0.16
Radial #8	218	216	30	166	9	-0.033	100.00	0.16

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496J22 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Jan 22 19:03:38 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: J22

Tool Delay [usec] -55.00 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	0.068	0.000	1.00	100.000
3 Ft. Receiver	200	30	1.543			
5 Ft. Receiver	317	30	1.242			
Radial #1	200	30	1.193			
Radial #2	200	30	1.170			
Radial #3	200	30	1.384			
Radial #4	200	30	1.312			
Radial #5	200	30	1.509			
Radial #6	200	30	1.585			

Radial #7	200	30	1.287
Radial #8	200	30	1.298

GAMMA RAY

Calibration File: C:\case\calver\GR\121J2.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 21 14:45:39 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	71.78	314.67	0.762	54.67	239.67	185.00

Verification File: C:\case\calver\GR\121J2.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jan 21 14:46:51 2014 TOOL SERIES: 2459XA ASSET: 121 SEQ: J2

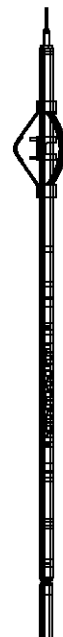
Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
SK2 WA612	74.22	316.93	0.762	56.53	241.40	184.86

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



	24.23'
XMIT	18.05'
NEAR RCVR	14.97'
FAR RCVR	13.05'
CCL	11.34'

<i>Probe GR/CCL/NEU</i>	
Series	2459XA
Mnemonic	PROB
Diameter	2.75"
Length	9.42'
Measure Point	1.21' NEU
Measure Point	6.60' GR
Measure Point	8.46' CCL

<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



GR	9.49'
NEU	4.09'
	0.00'

Total Length: 24.23'
Total Weight: Not Available
Max Diameter: 0' 3.12"



Company	WPX ENERGY		
Well	FEDERAL RG 42-15-298		
Field	SULPHUR CREEK		
County	RIO BLANCO	State	CO

File No:	CH081739
API No:	05103117920000

Baker Atlas



Location				Elevations	
SHL: 1863' FNL & 482' FWL (14 2S 98W)				KB	6581 ft
BHL: 1853' FNL & 656' FEL (15 2S 98W)				DF	
				GL	6560 ft
SEC	15	TWP	2S	RGE	98W

15 2S 98W
RG 12-14-298 PAD
CYCLONE 29