



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY	
	Well	PCU 296-6 A1	
API No:	Field	PICEANCE CREEK	
05103114750000	County	RIO BLANCO	State
		COLORADO	
Location		Other Services	
SHL: 446' FSL & 1931' FWL		RPM	
SEC 6 TWP 2S RGE 96W			
Permanent Datum	GL	Elevation	7366.3 ft
Log Measured From	KB	28.9 ft	Above P. D.
Drill Measured From	KELLY BUSHING		
		Elevations	
		KB	7393.2 ft
		DF	7392.2 ft
		GL	7366.3 ft

Date	22 JAN 2011	
Run	ONE	
Service Order	574428	
Depth Driller	13821.8 ft	
Depth Logger	13670 ft	
Bottom Logged Interval	13666 ft	
Top Logged Interval	6000 ft	
Time Started	03:00	
Time Finished	20:00	
Operator Rig Time	17 hrs	
Type of Fluid in Hole	2K NAACL	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	FULL	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	NONE	
Reference Log Date	N/A	
Equipment No.	WL 4271	G.J., COLORADO
Recorded By	J. OSTLER	
Witnessed By	MR. JIM JONES	

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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
14.75 In	SURFACE	4434 ft
7.875 In	SURFACE	9654 ft
6.125 In	SURFACE	13821.8 ft

Casing Record				
Size	Weight	Grade	From	To
10.75 In	45.5 lbm/ft	J55	SURFACE	4434 ft
7 In	26 lbm/ft	P-110	SURFACE	9654 ft
4.5 In	15.1 lbm/ft	P-110	SURFACE	13821.8 ft

Remarks
THIS IS THE FIRST LOG OF THE WELL
WELL WAS LOGGED WITH 0 PSI AT THE WELL HEAD
SHORT JOINT TOPS:
7760'
8764'
9767'
10772'

11776'
12781'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10154957	CENTRALIZED
1	1	GR/CCL/NEU	2459XA	10417456	CENTRALIZED

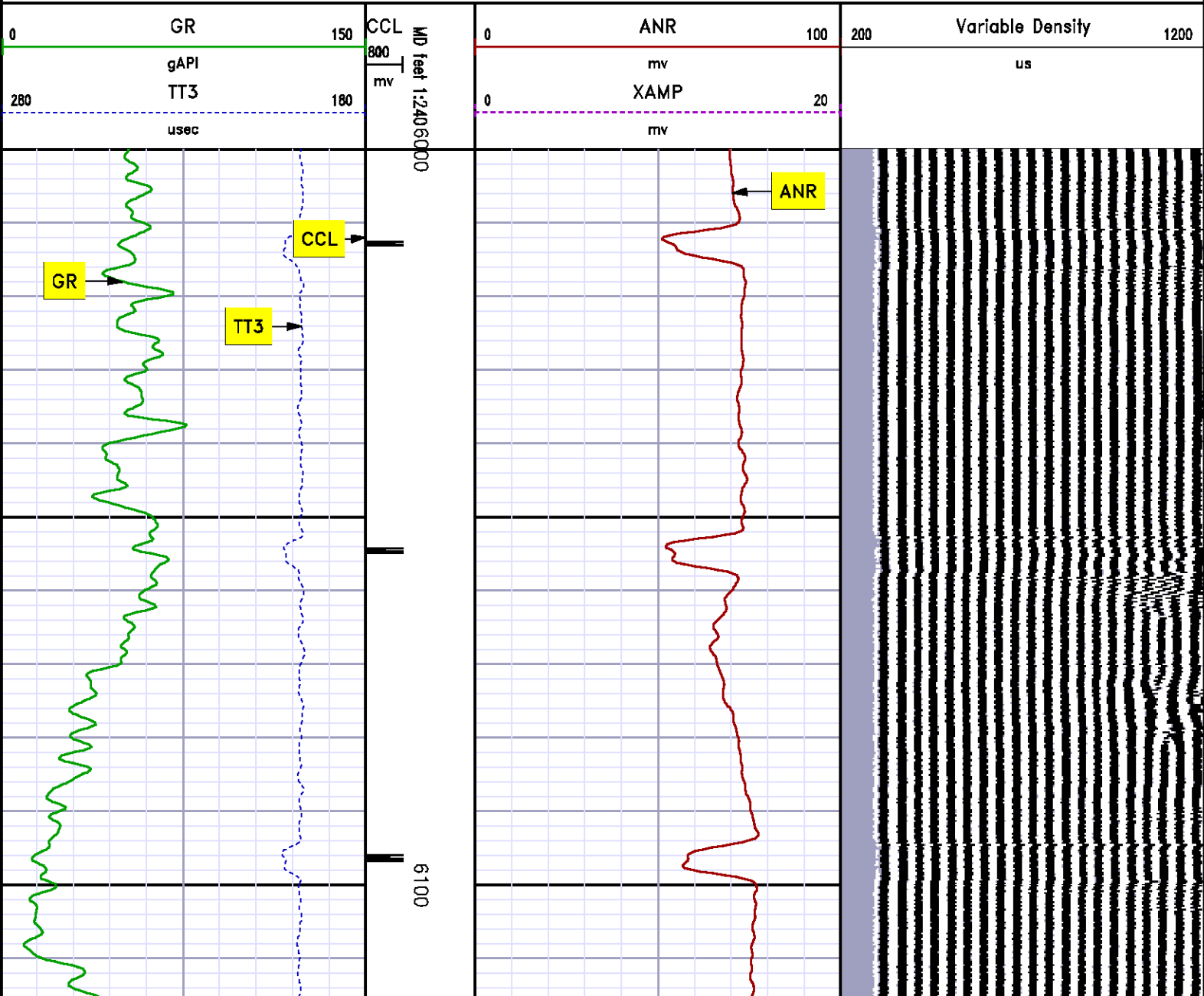
***MAIN SECTION
PRIMARY PRESENTATION
0 PSI***

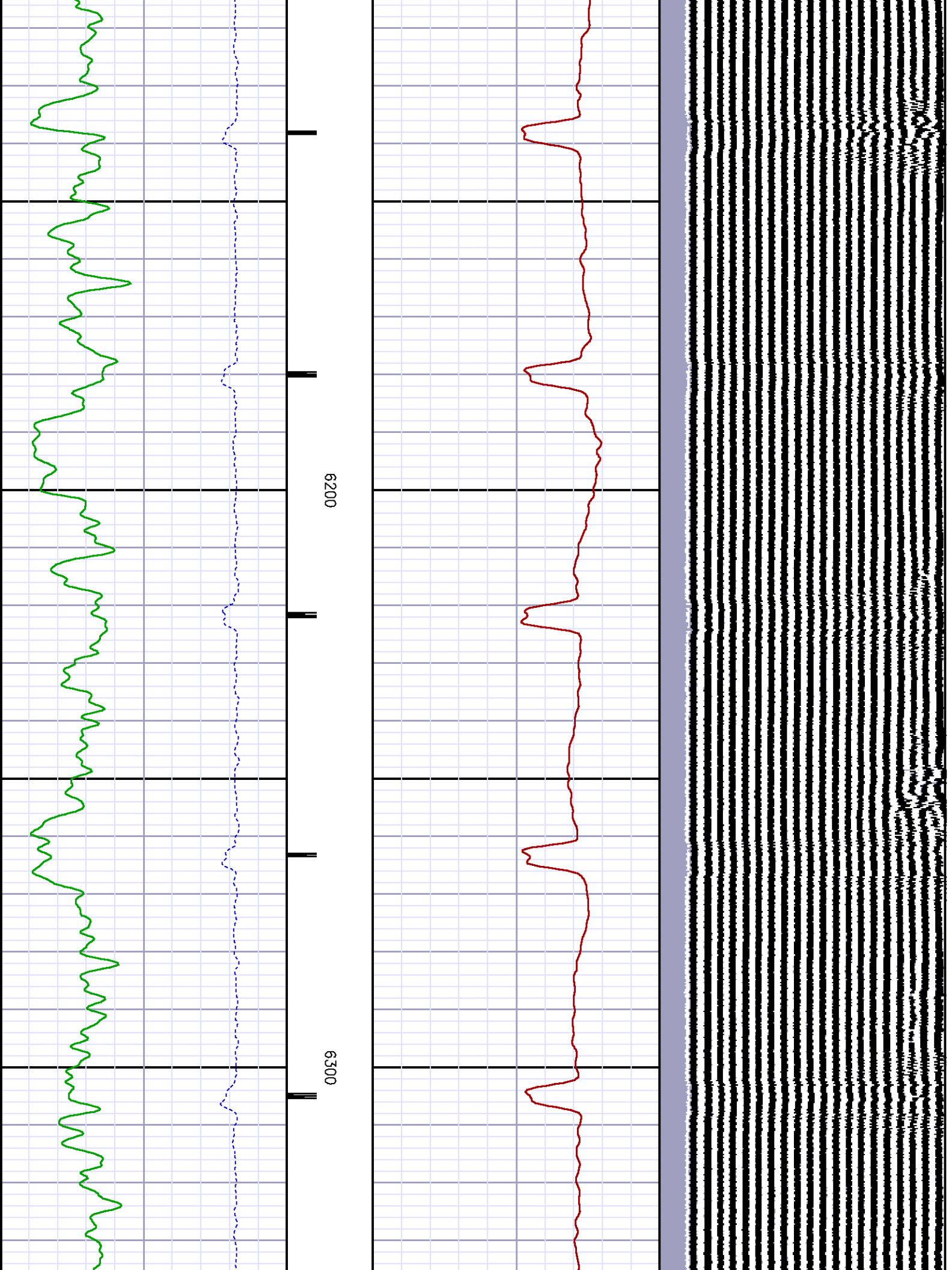
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	301.836	usec	5938.000	13699.000
RAL	Amp Gate Start Near	190.553	usec	5938.000	13699.000
RAL	Amp Gate Start Radial	197.754	usec	5938.000	13699.000
RAL	Amp Gate Width Far	25.000	usec	5938.000	13699.000
RAL	Amp Gate Width Near	25.000	usec	5938.000	13699.000
RAL	Amp Gate Width Radial	25.000	usec	5938.000	13699.000
RAL	casing od	4.500	inches	5938.000	13699.000
RAL	casing wt	15.100	lbm/ft	5938.000	13699.000
RAL	FB Start Far	289.263	usec	5938.000	13699.000
RAL	FB Start Near	172.754	usec	5938.000	13699.000
RAL	FB Start Radial	172.754	usec	5938.000	13699.000
RAL	FB Thresh Far	10.000	mv	5938.000	13699.000
RAL	FB Thresh Near	4.000	mv	5938.000	13699.000
RAL	FB Thresh Radial	4.000	mv	5938.000	13699.000
RAL	Fluid Travel Time	200.000	usec/ft	5938.000	13699.843

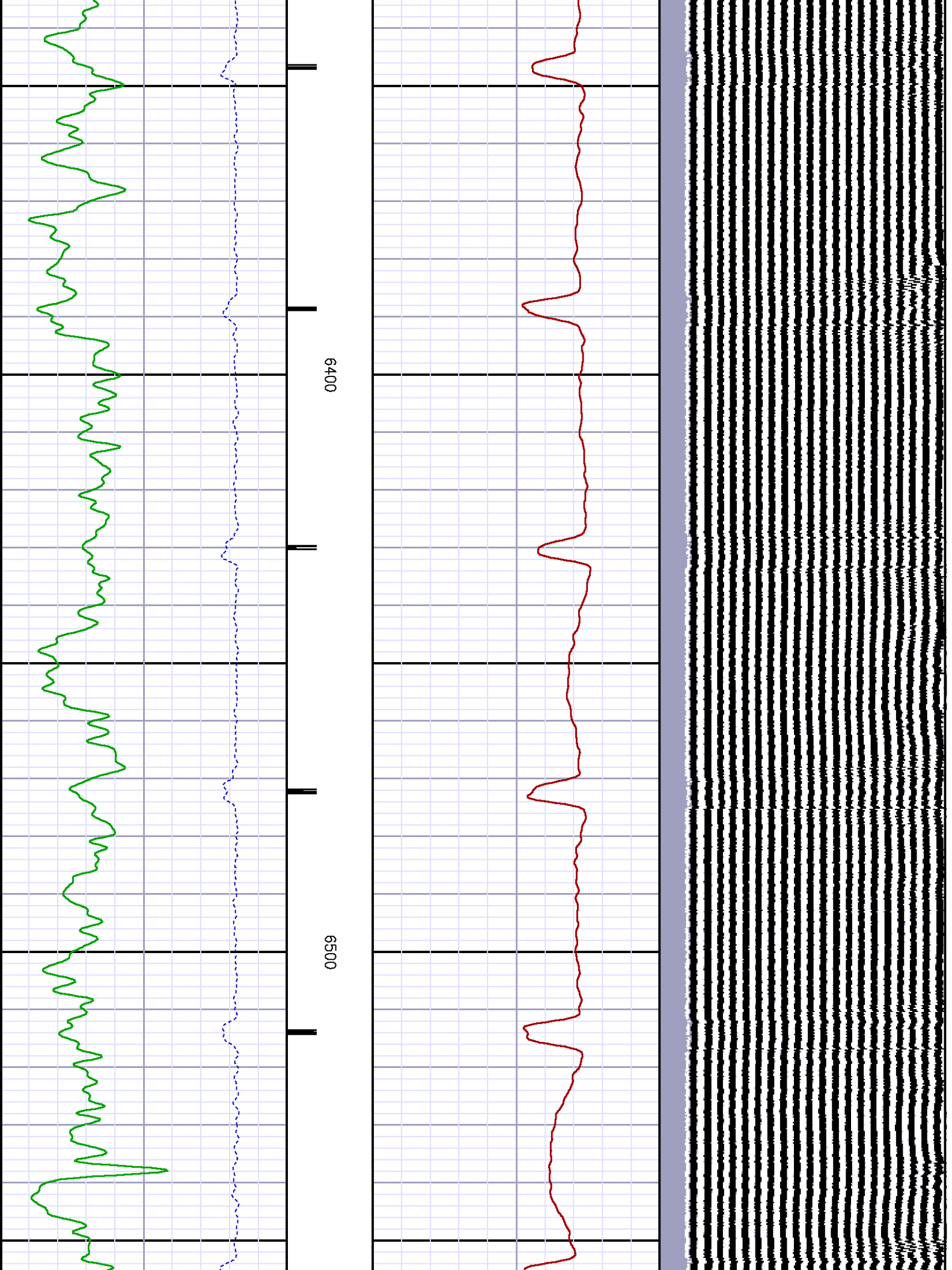
DEPTH OFFSETS
(for Acquired Curves)

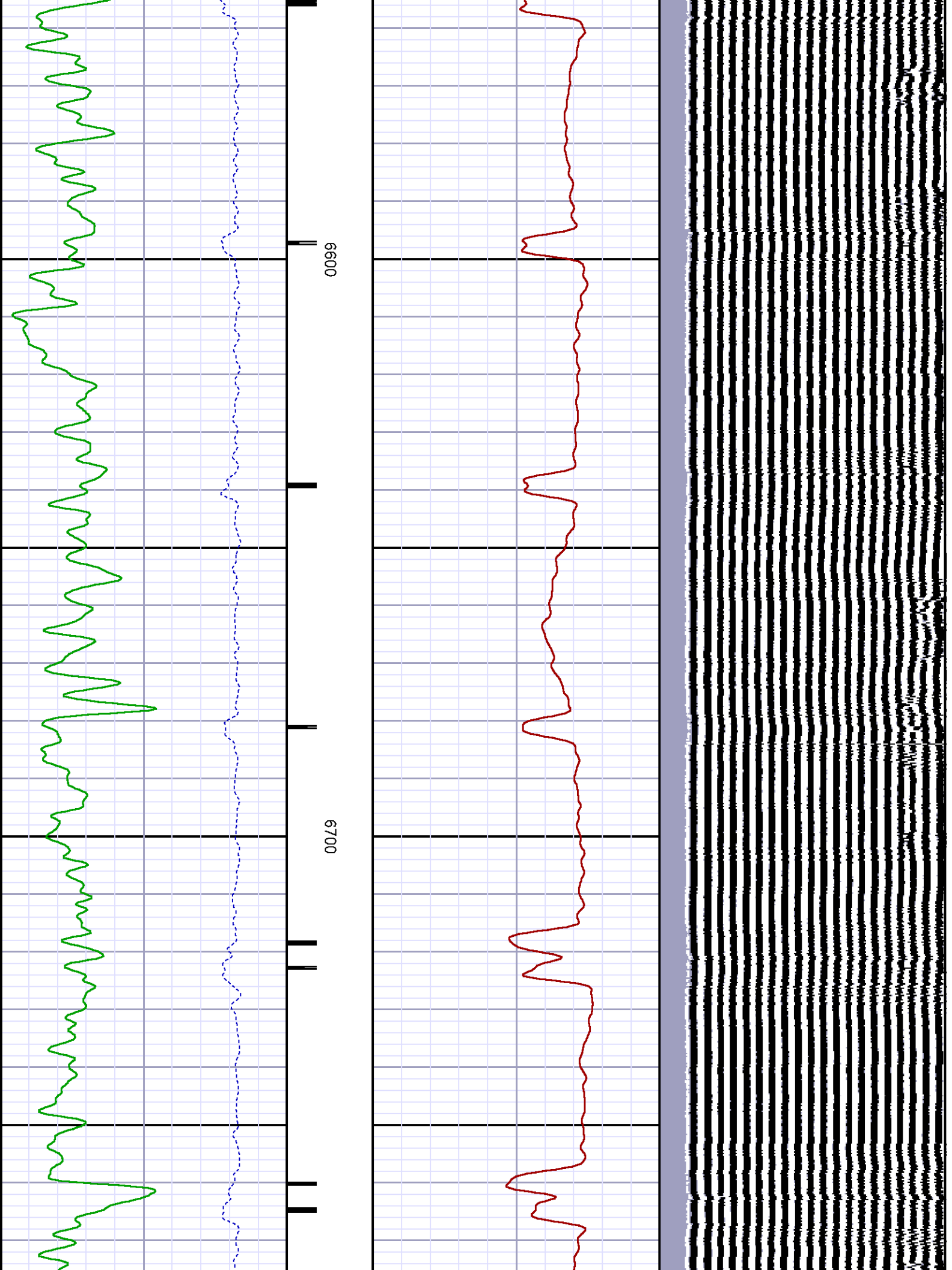
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
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		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-11.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

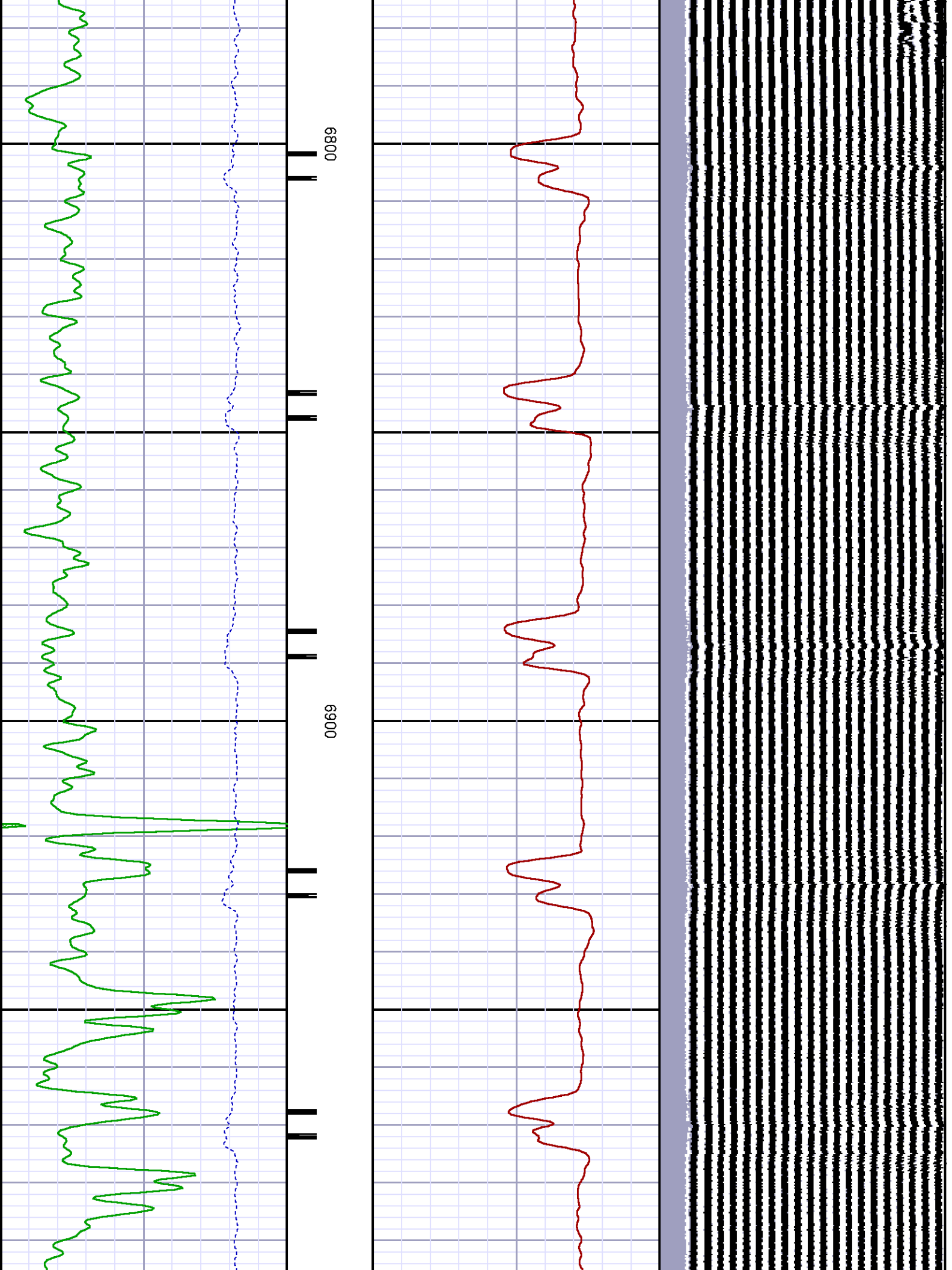
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Plotted by : PlotMgr, v5.4.504			
Company : EXXONMOBIL PRODUCTION COMPANY			
Well : PCU 296-6 A1			
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Interval : 6000.00 - 13676.00 feet UP			
Created : 1/22/2011 7:07:17 PM			

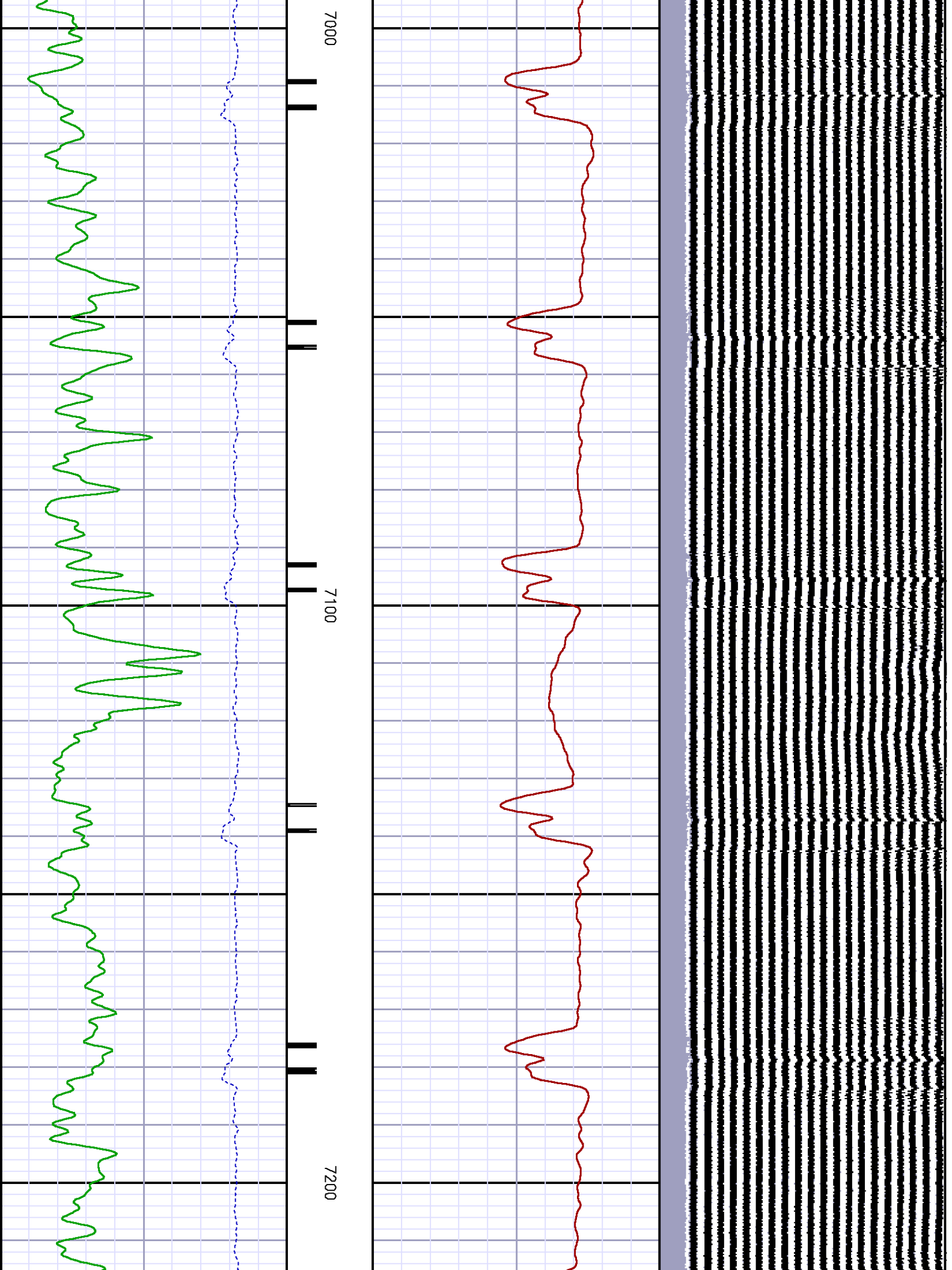


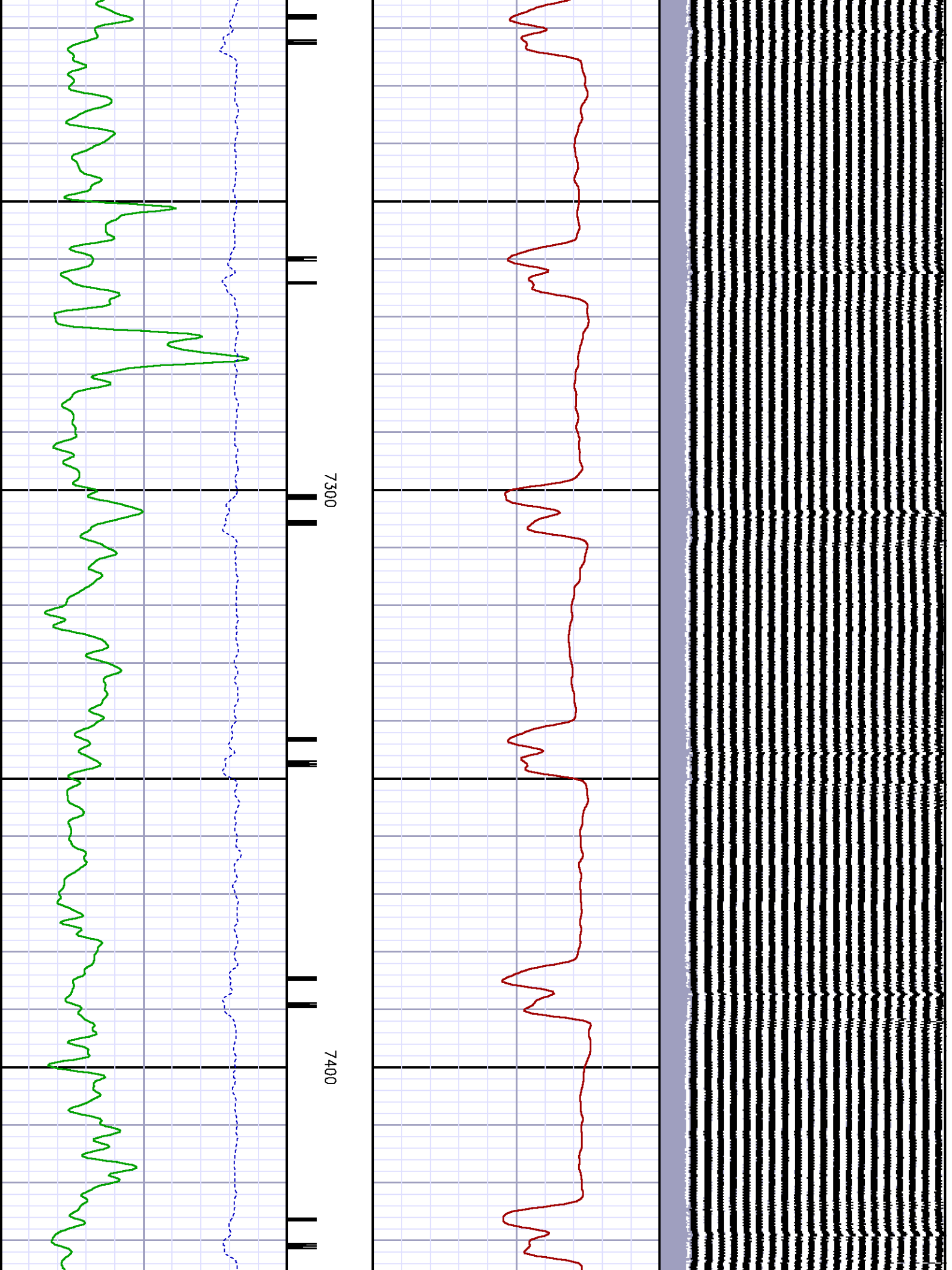


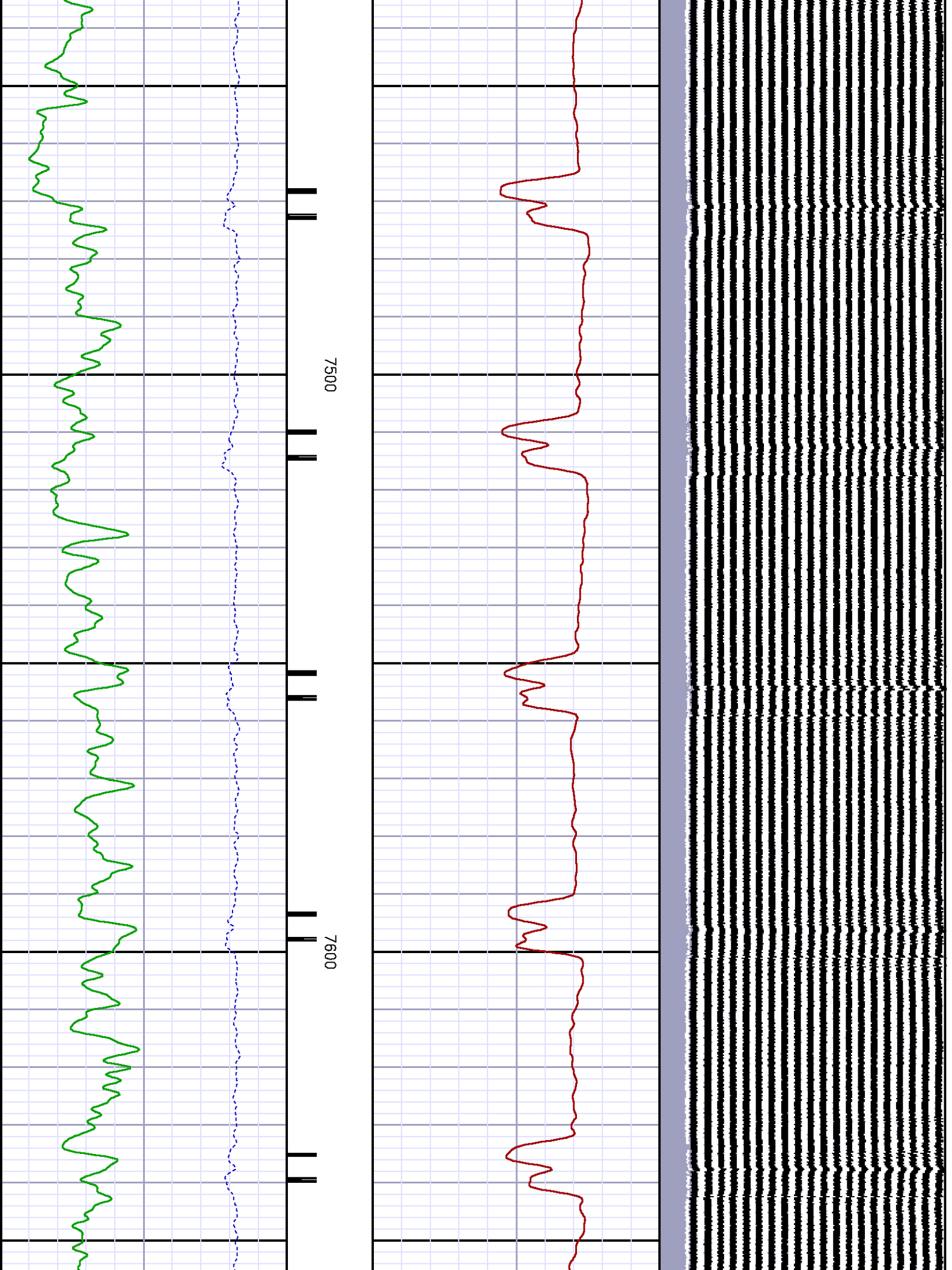


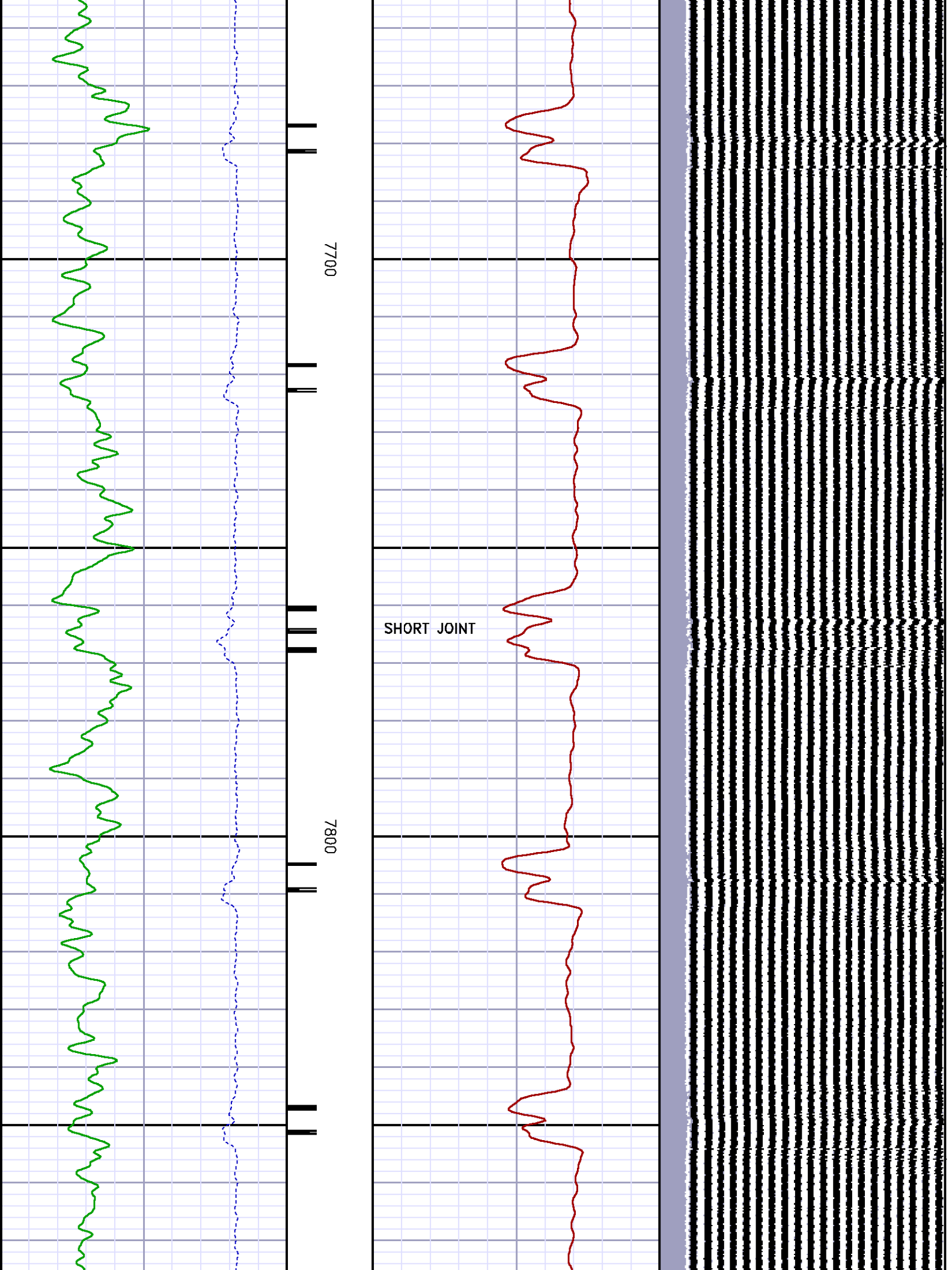


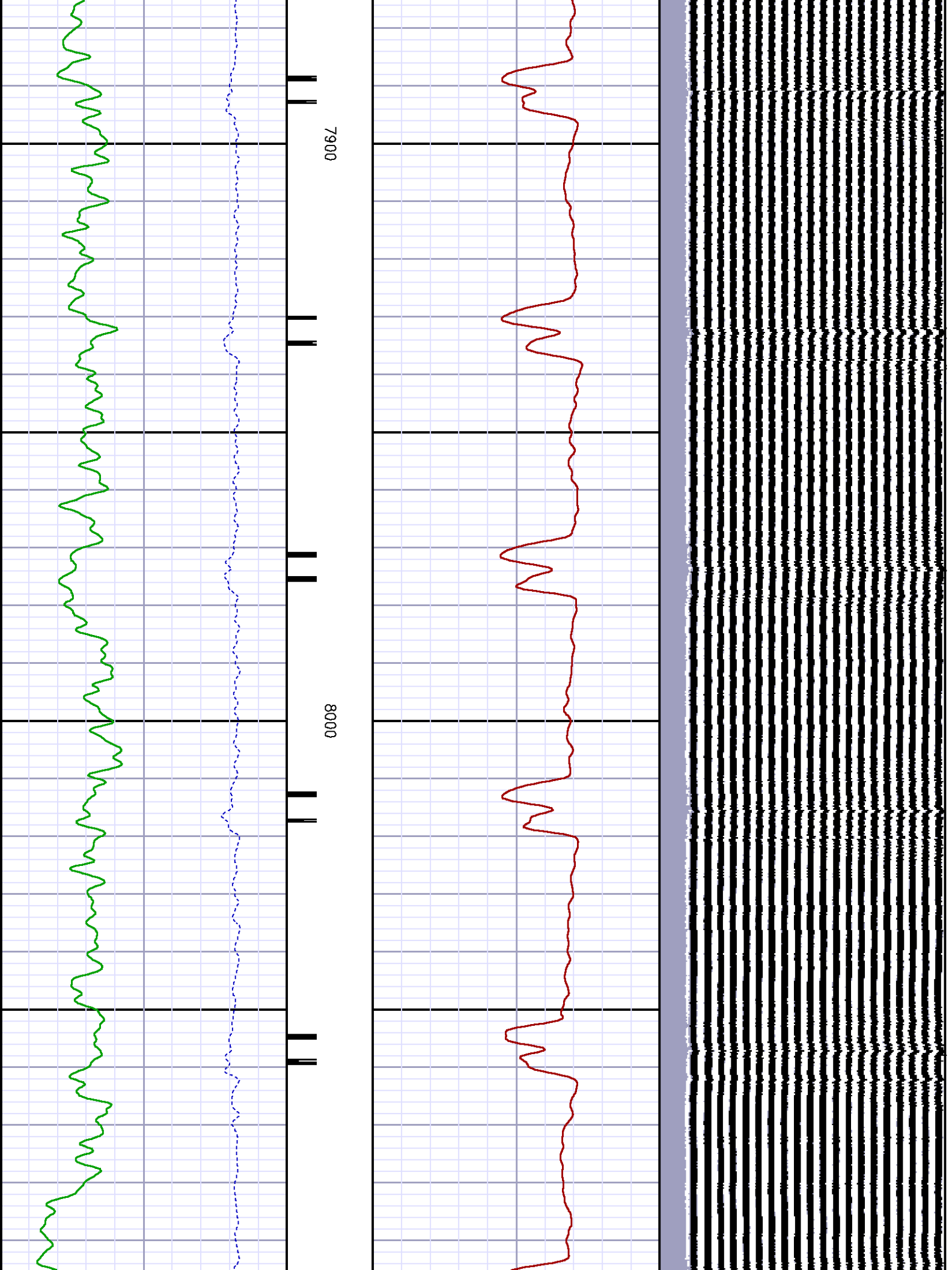


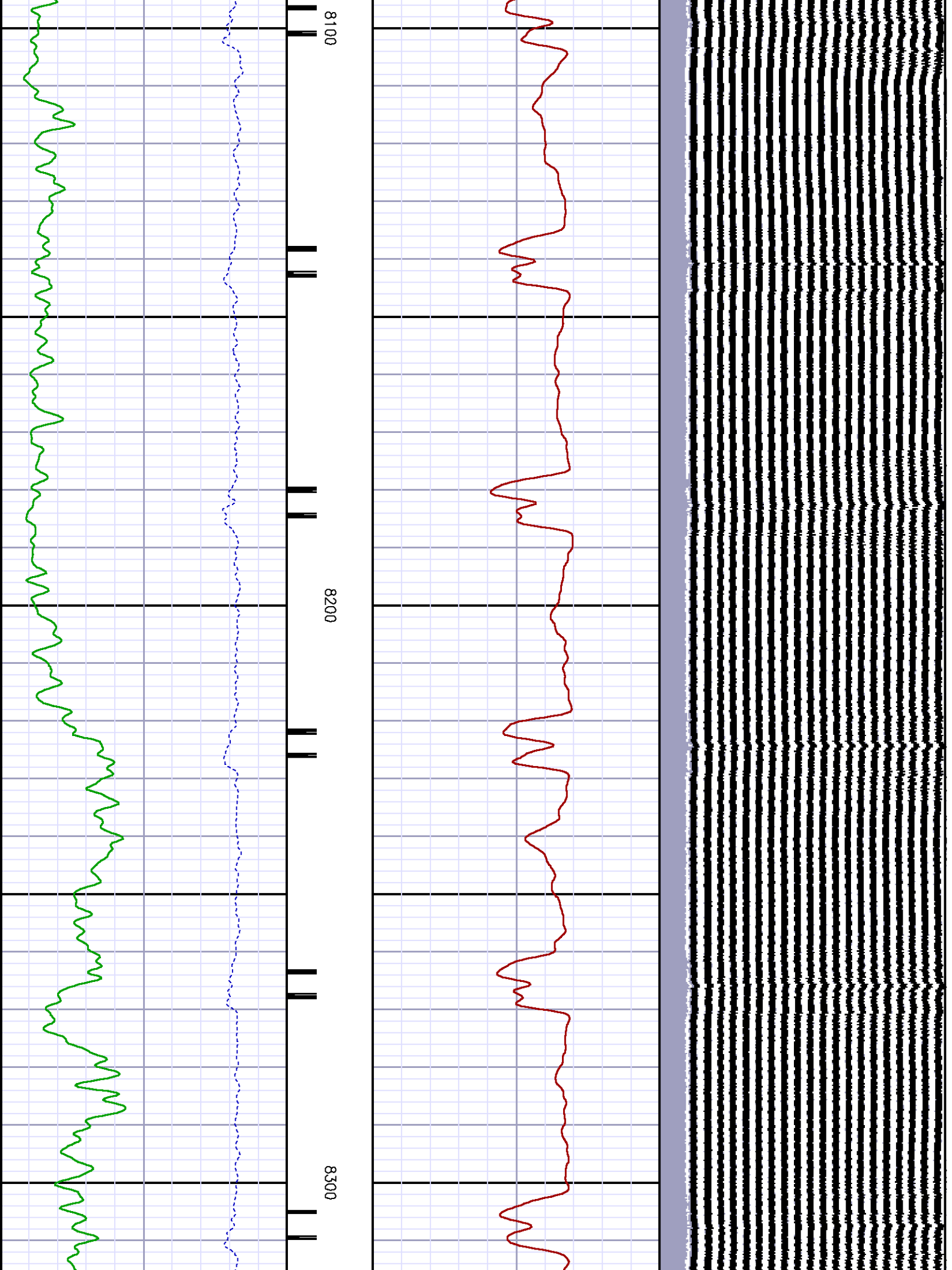


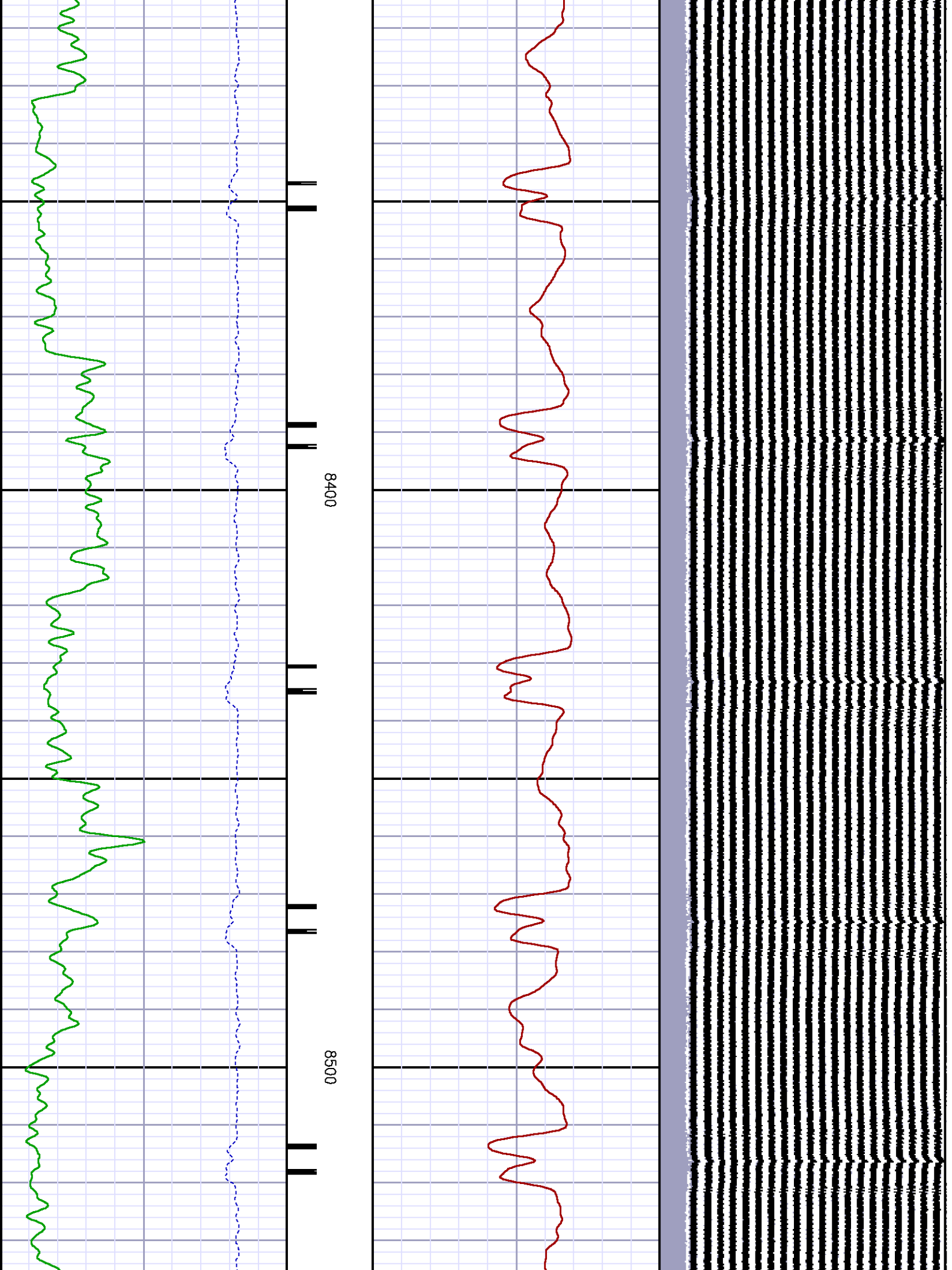


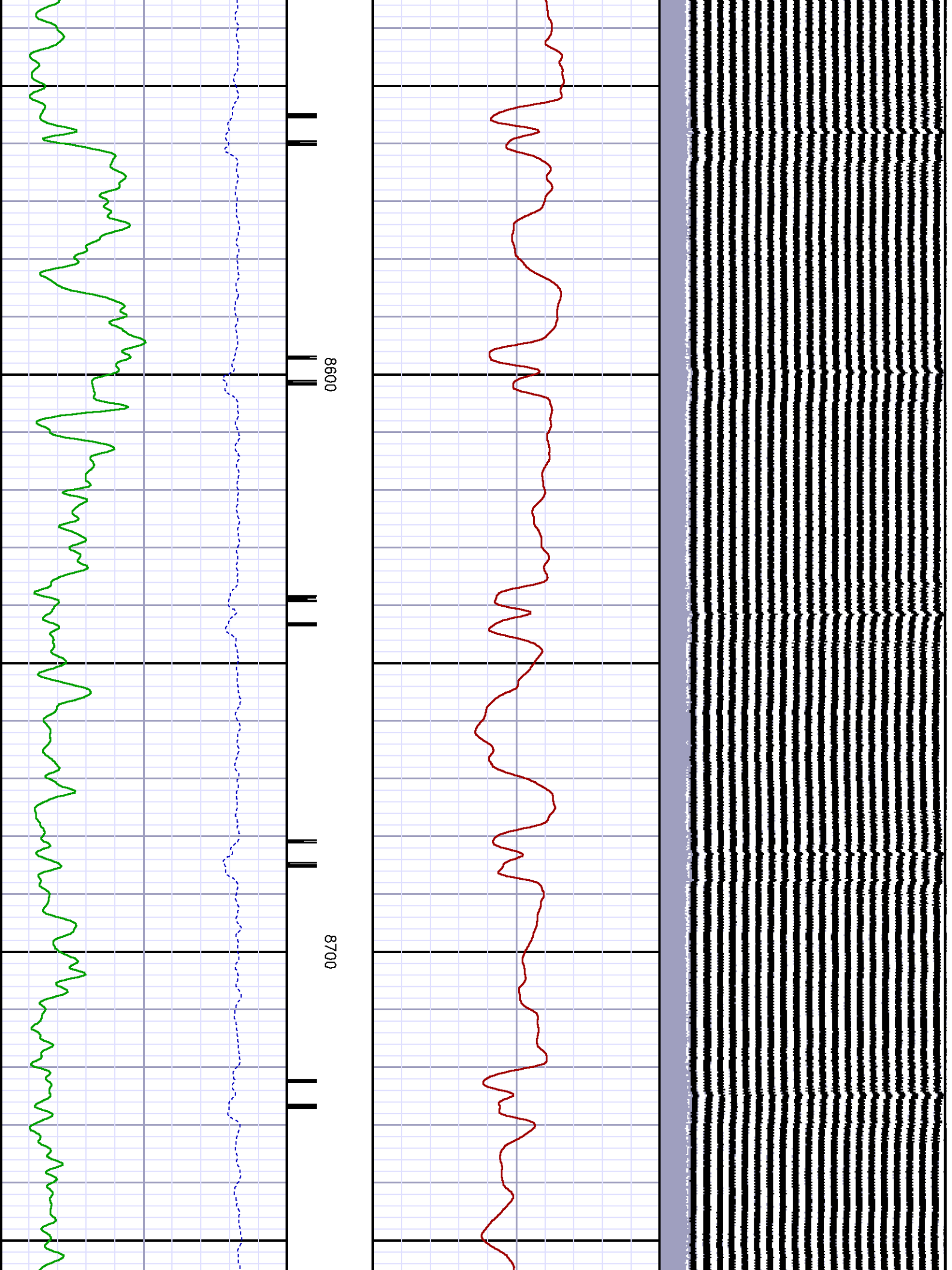


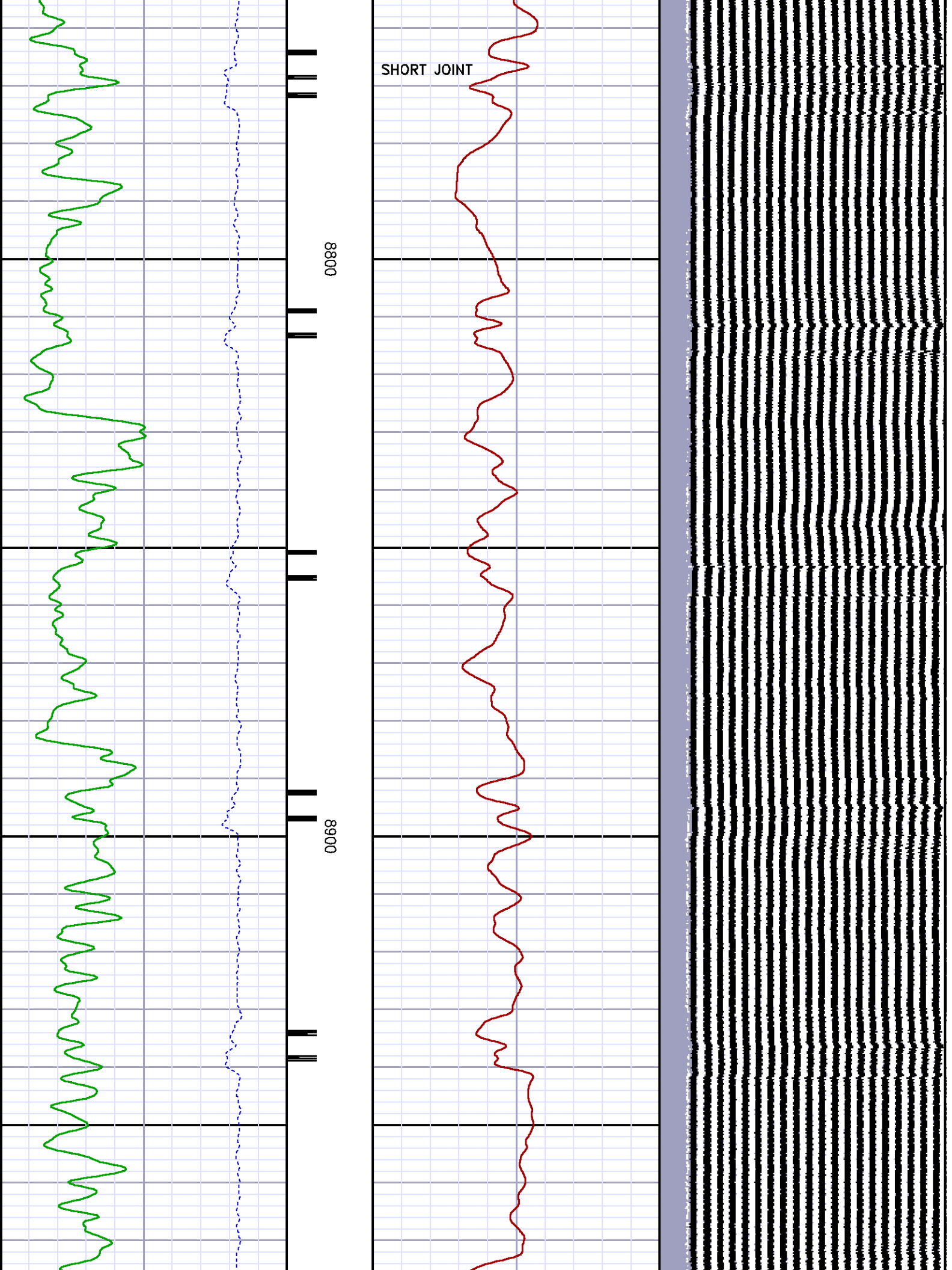


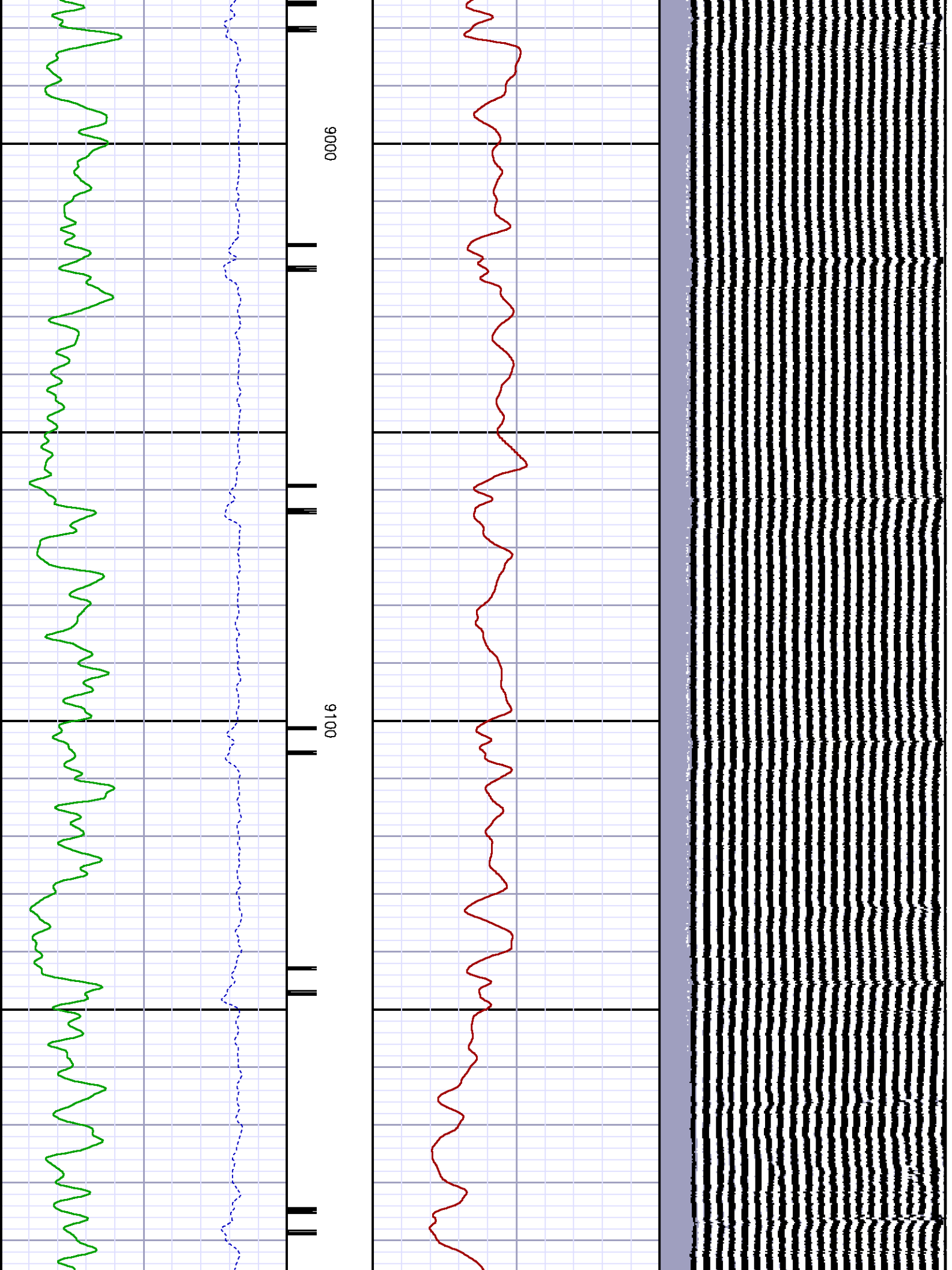


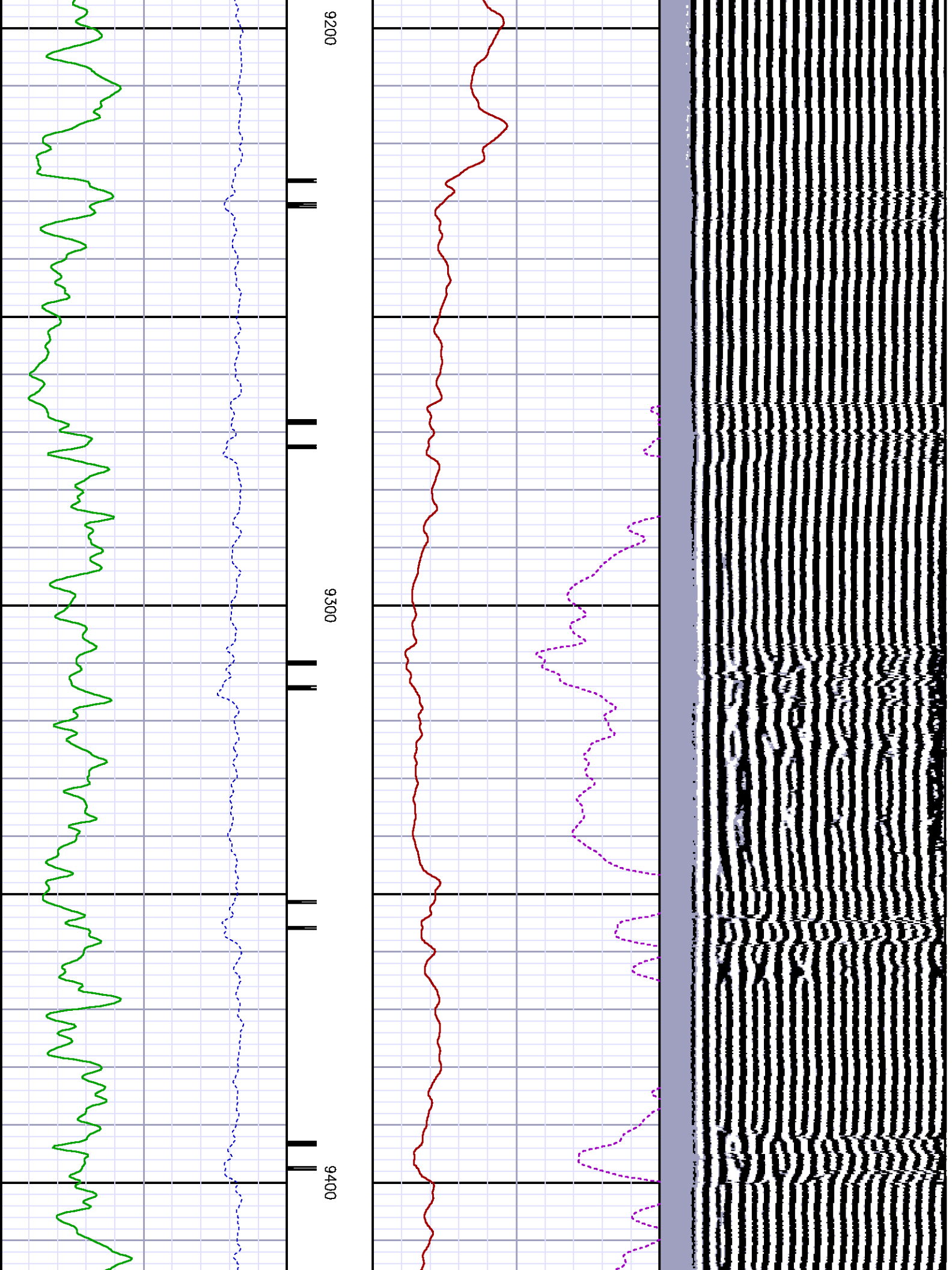


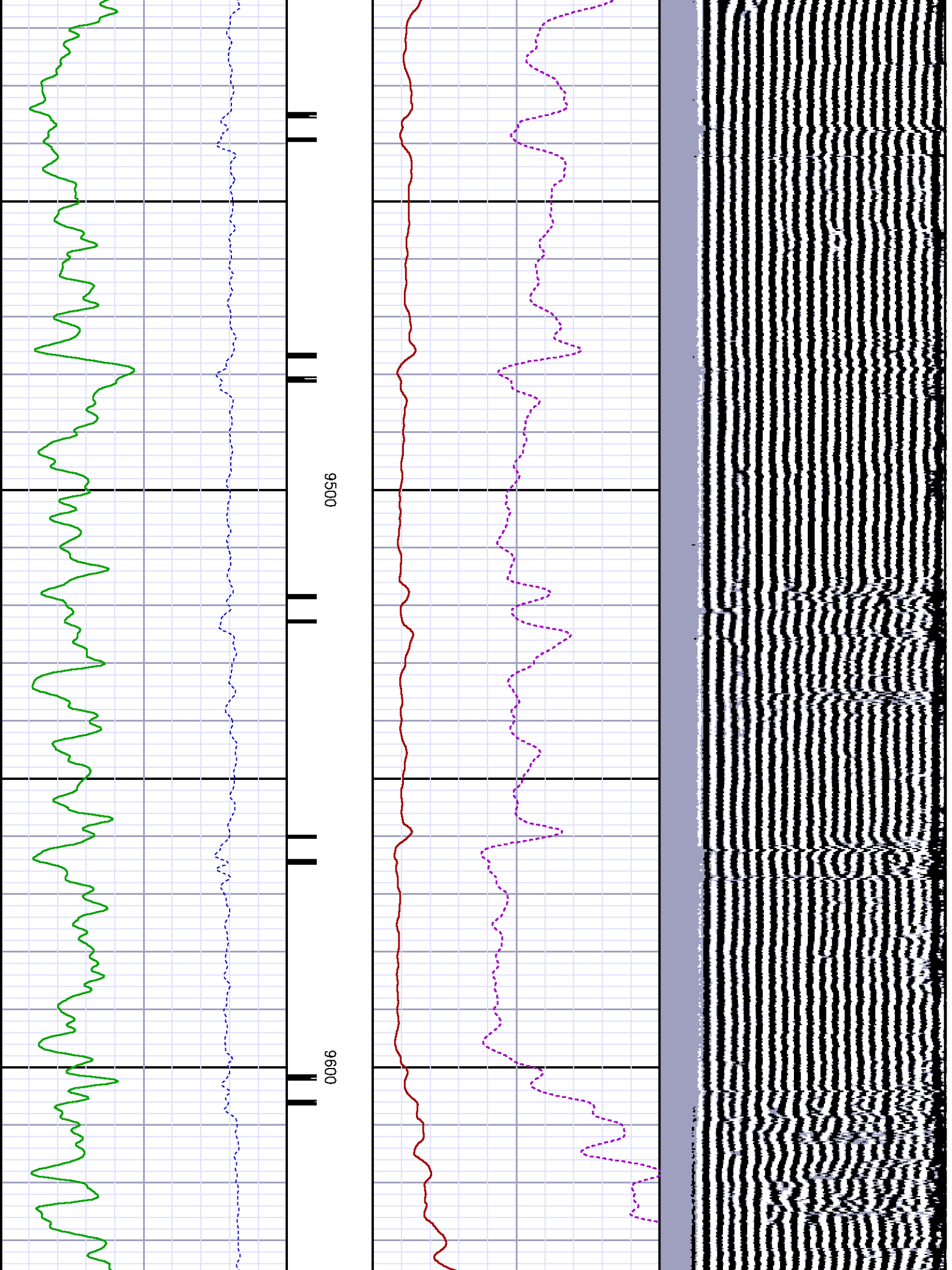


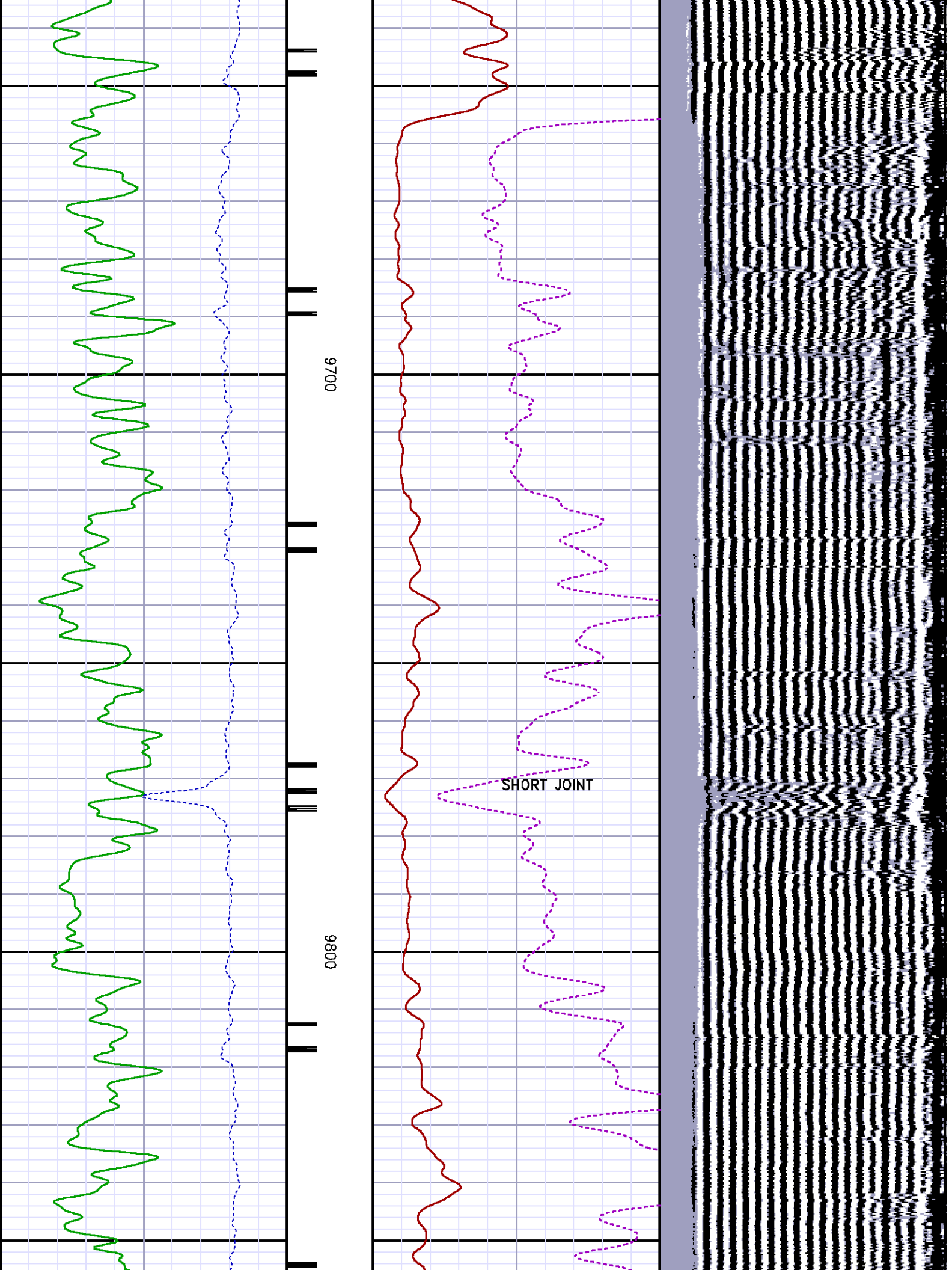


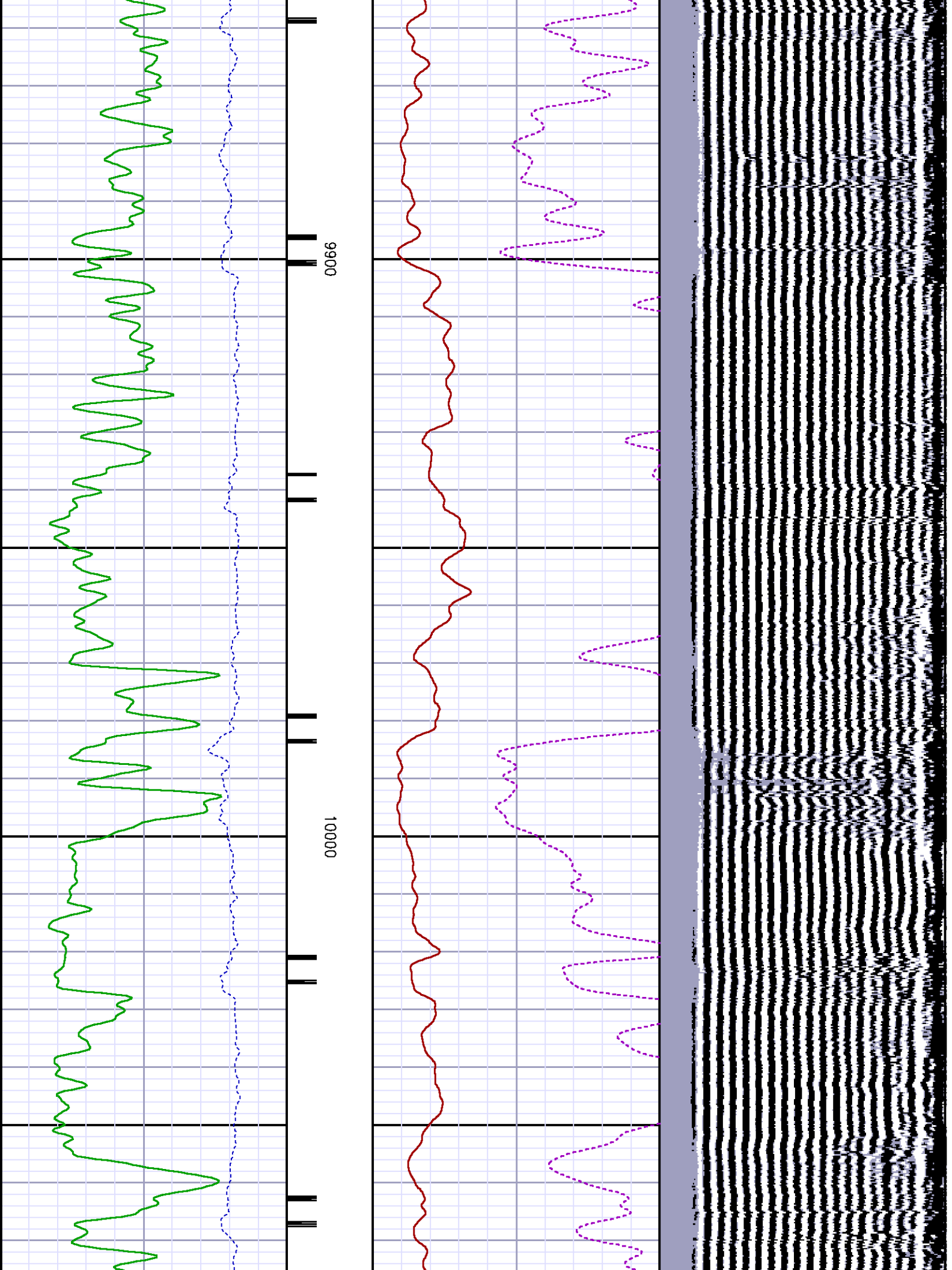


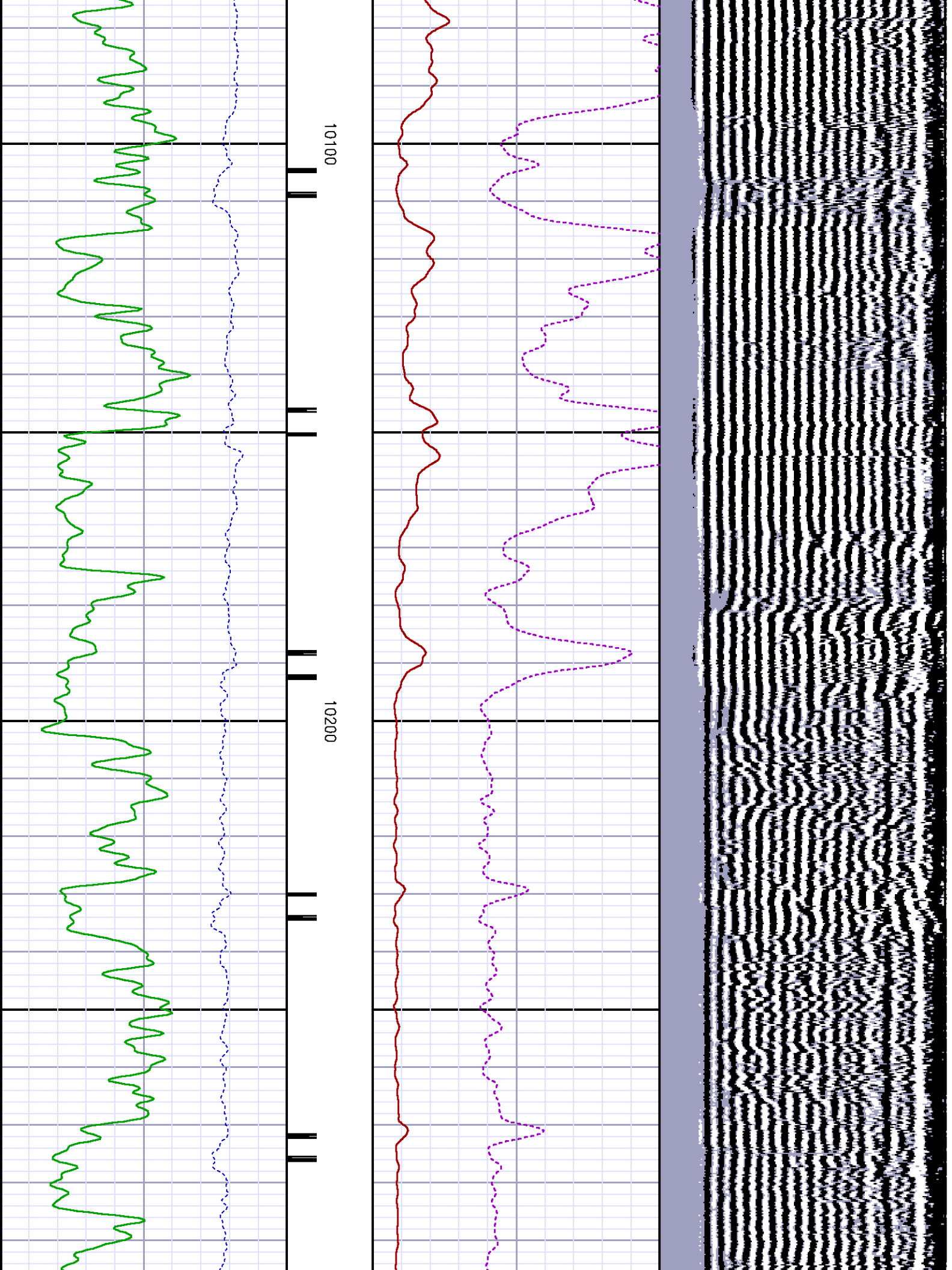


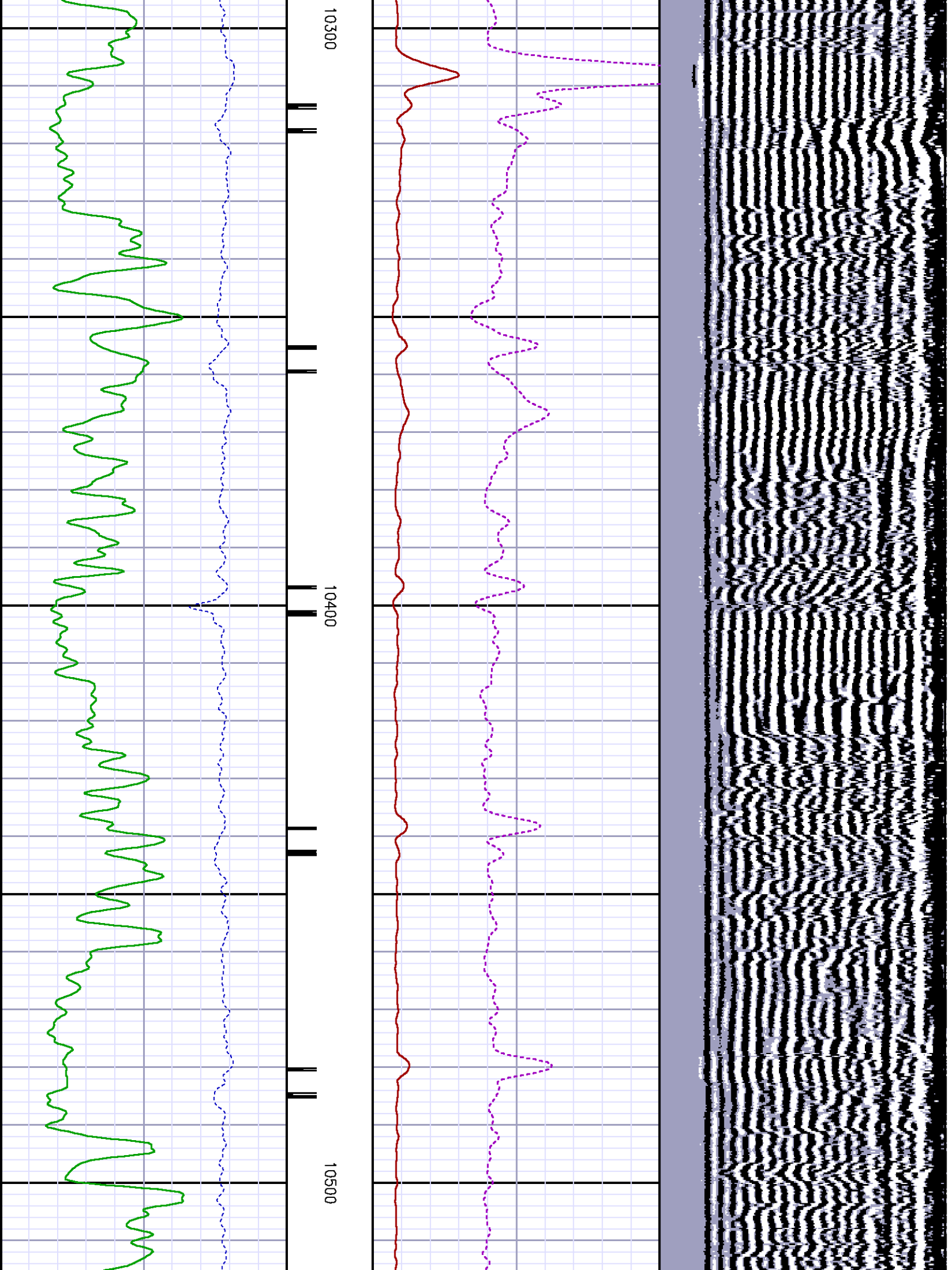


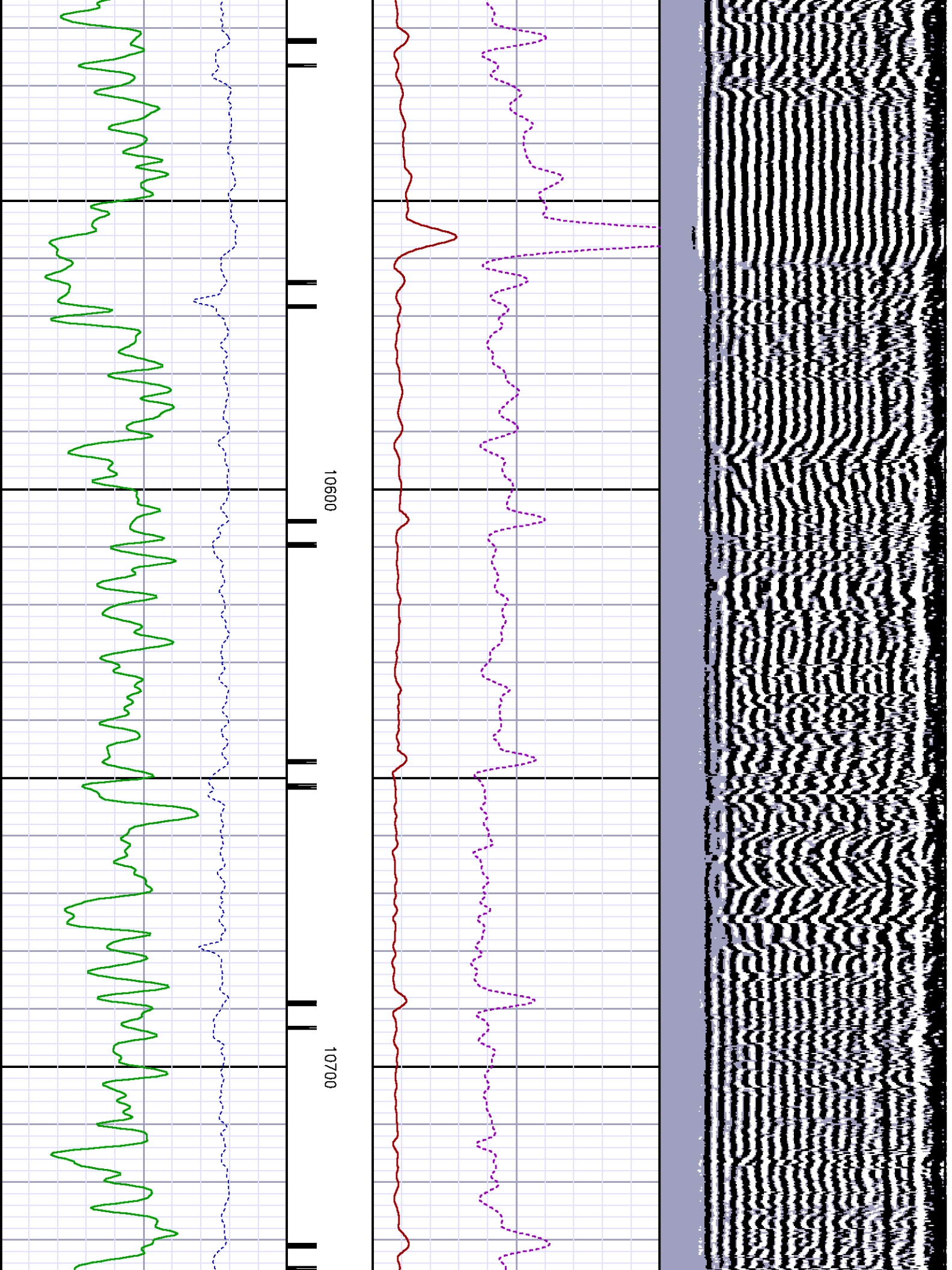


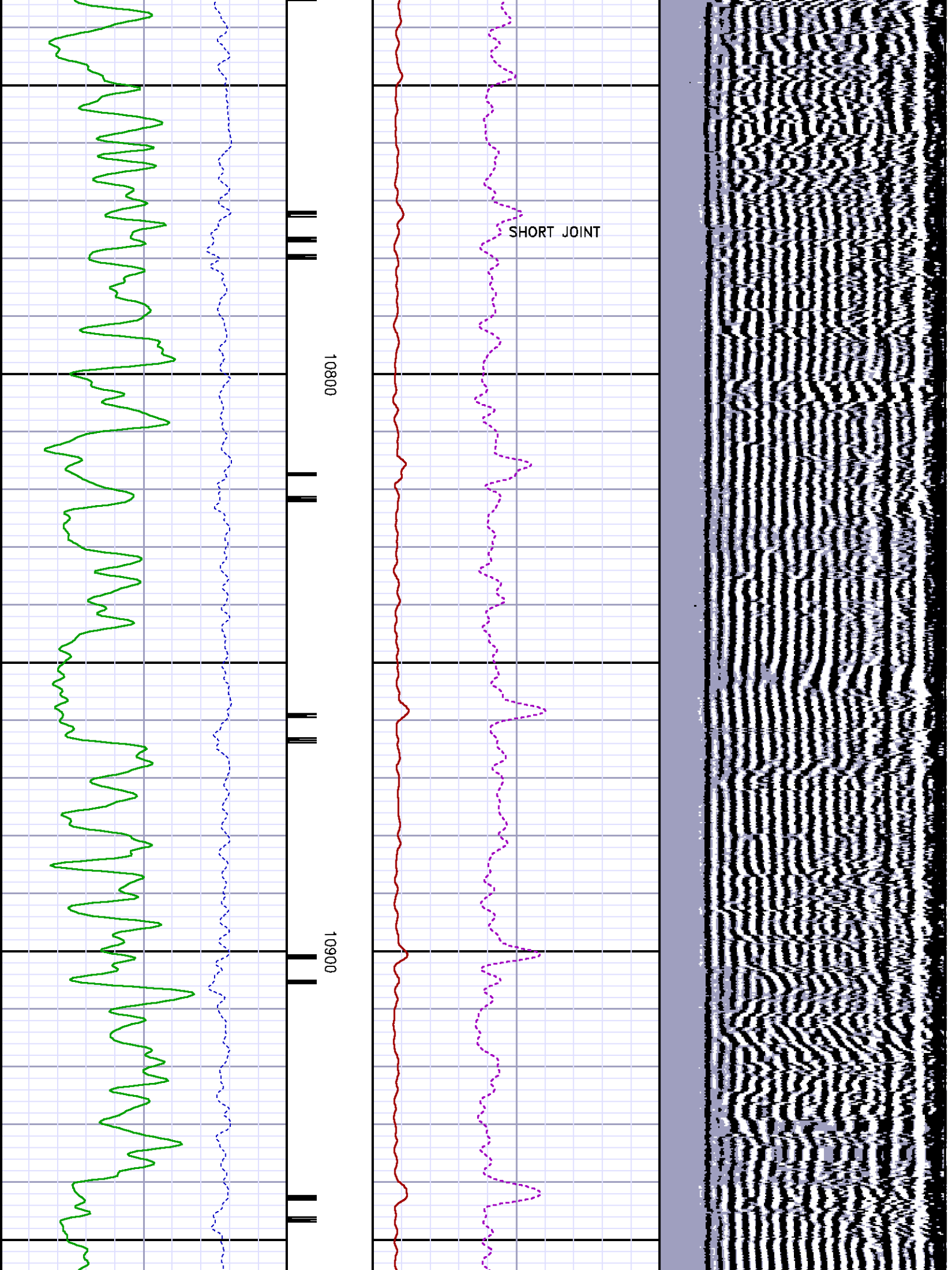


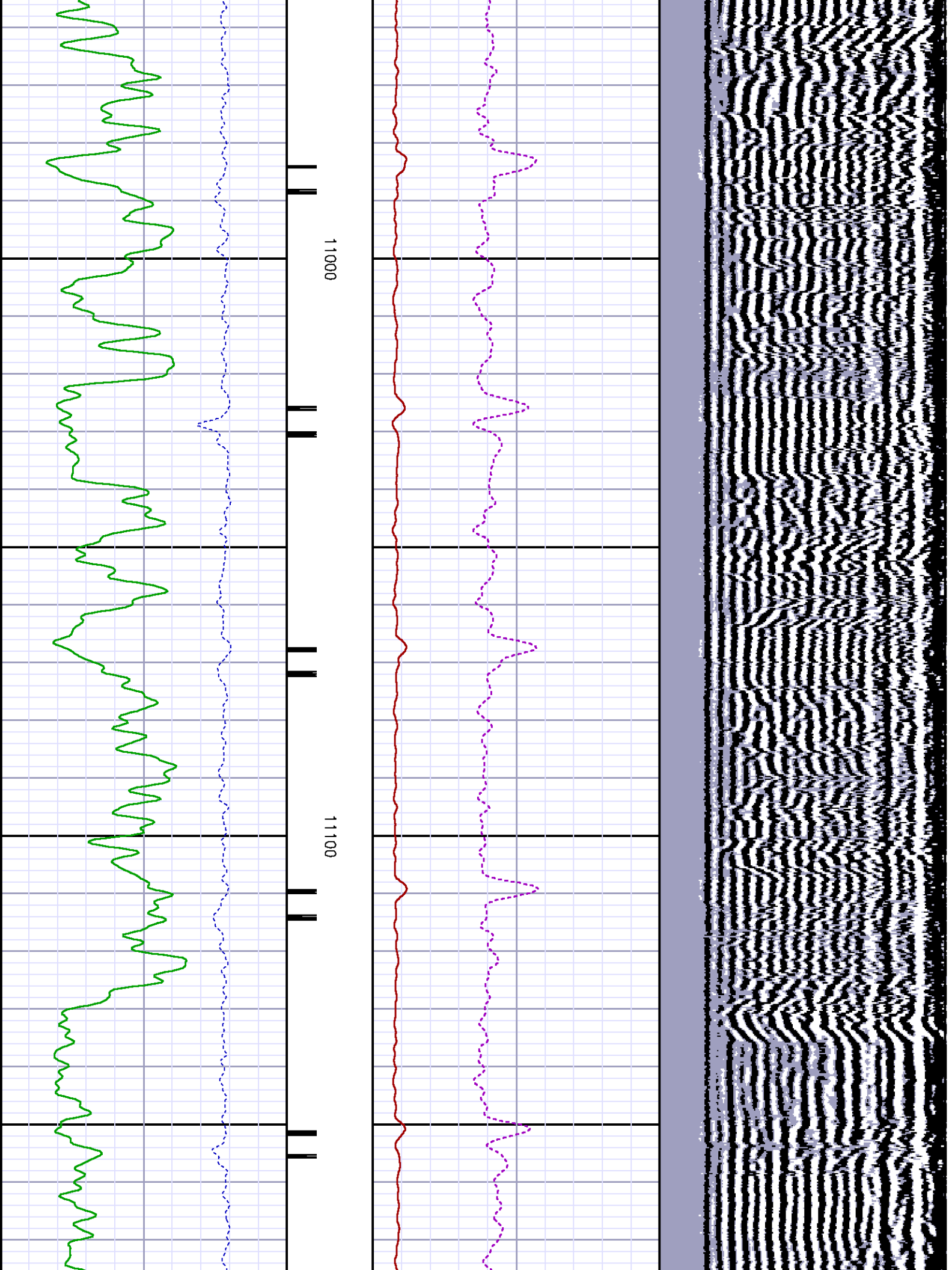


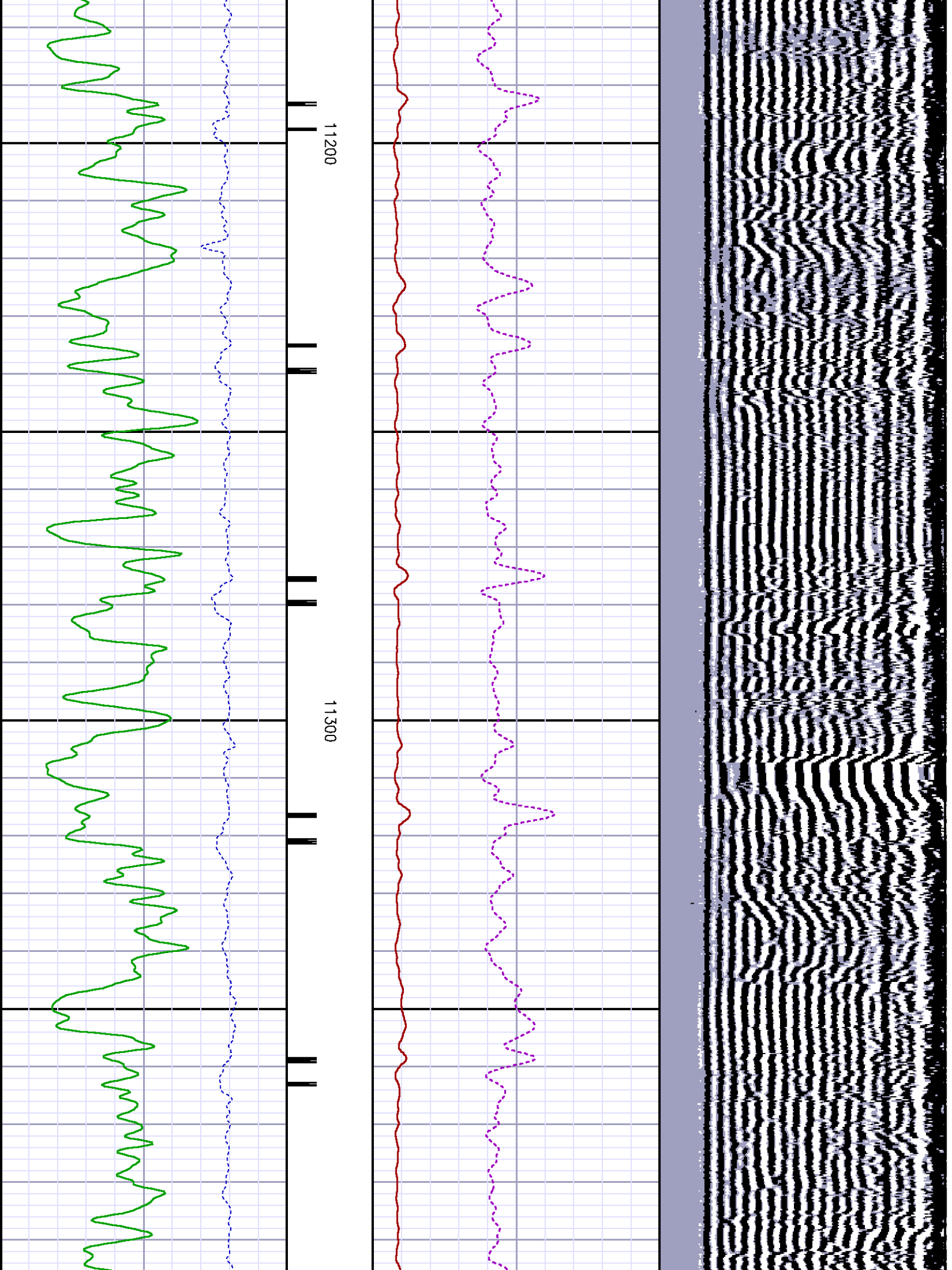


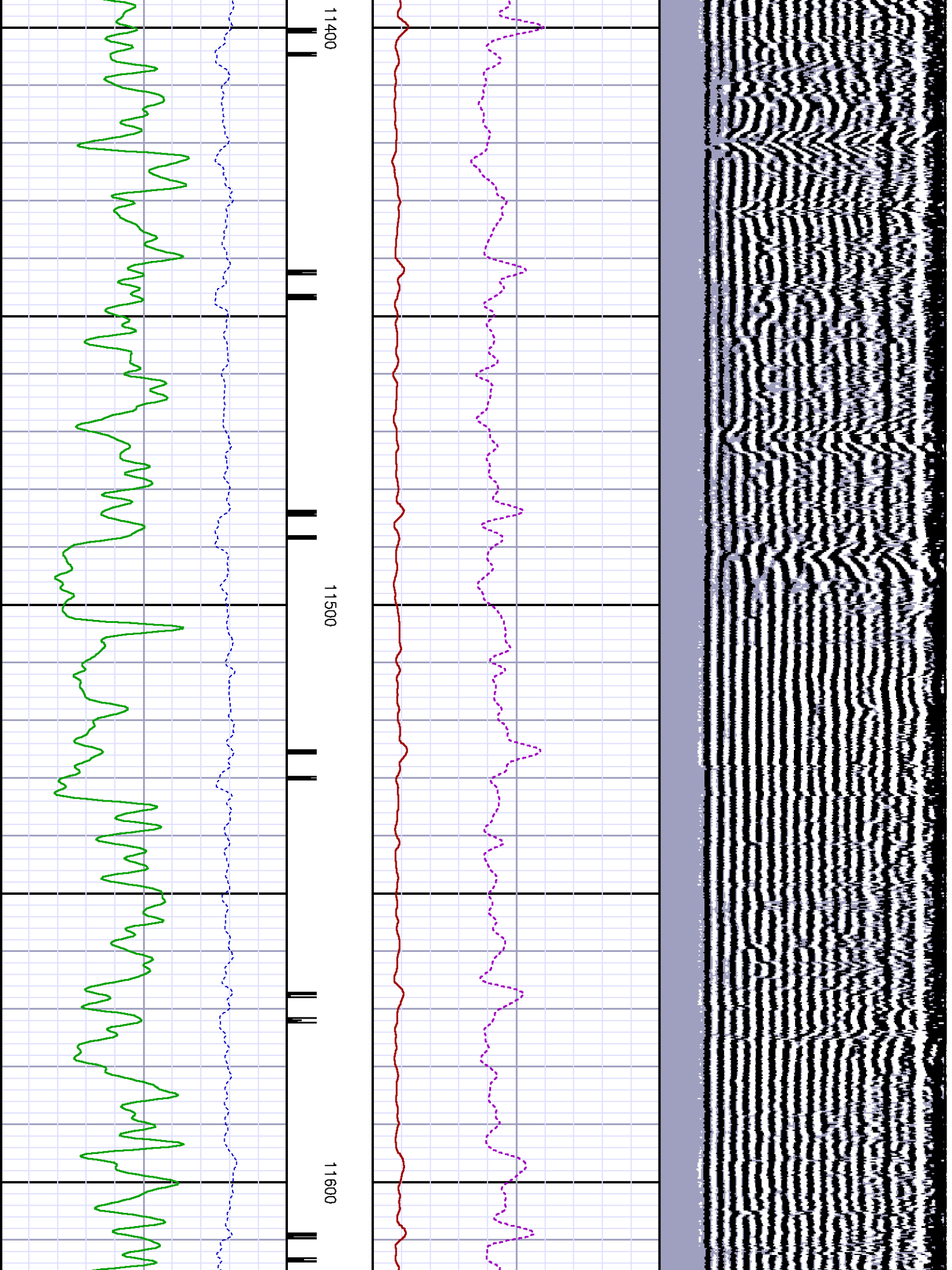


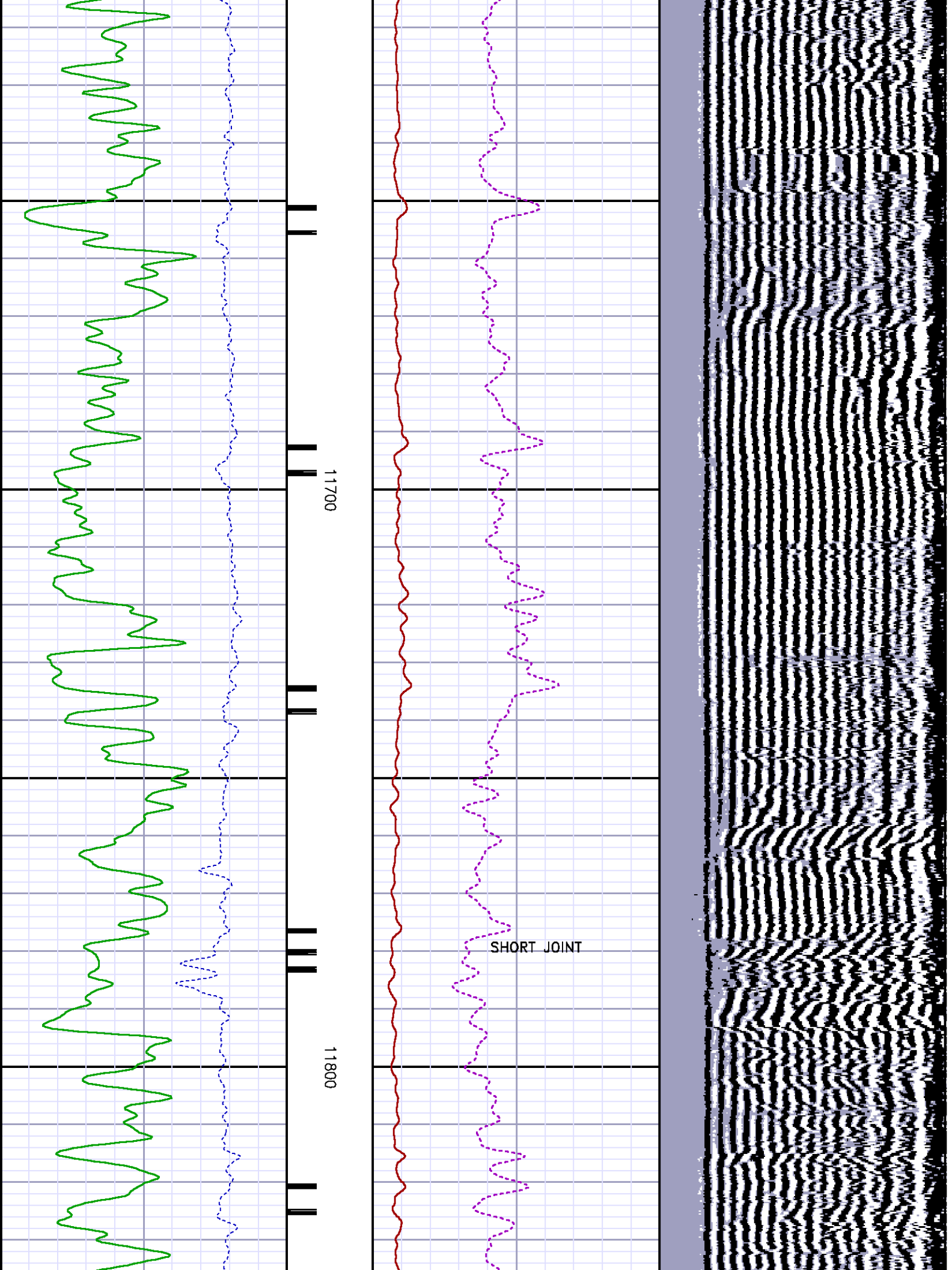


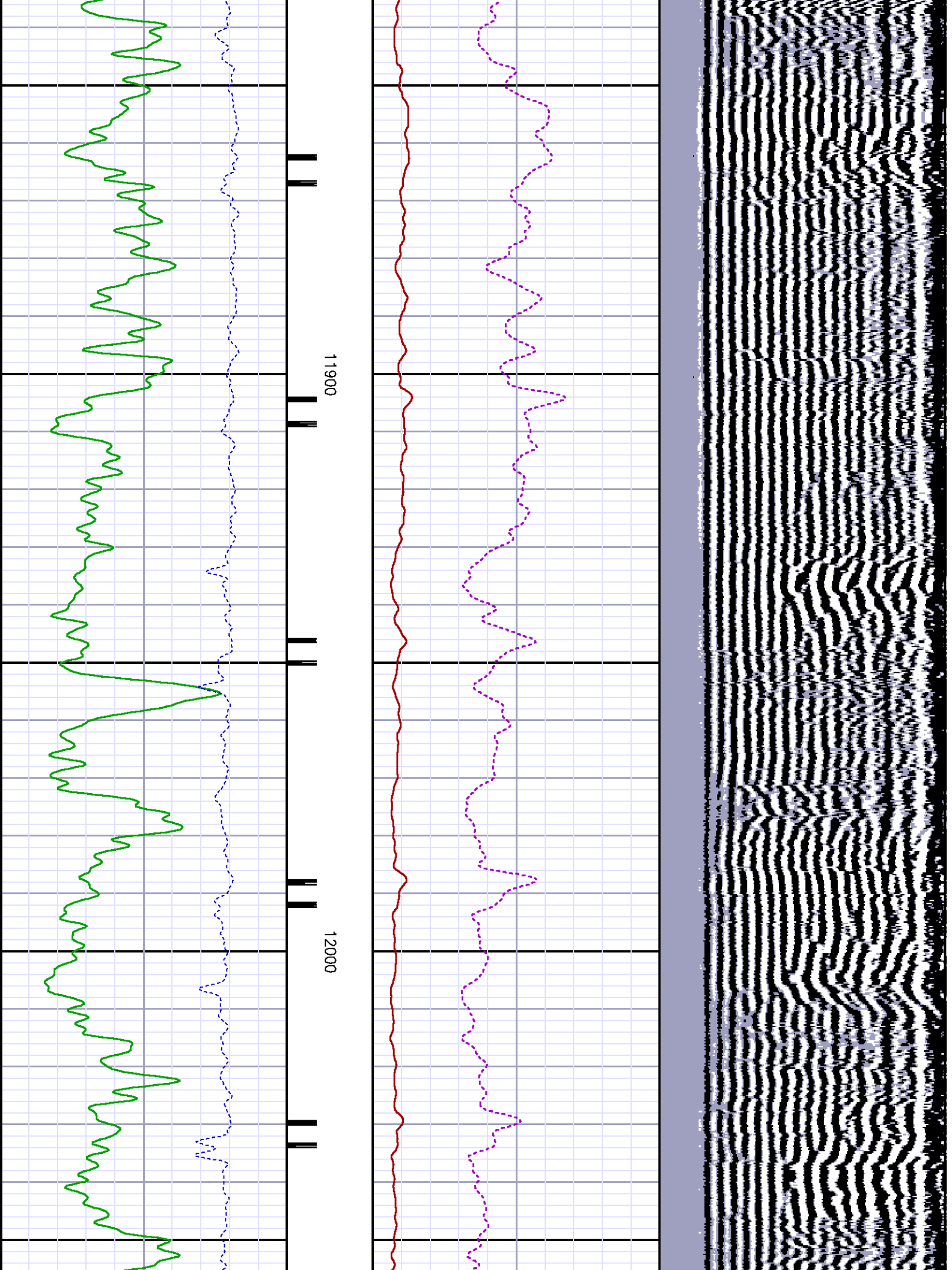


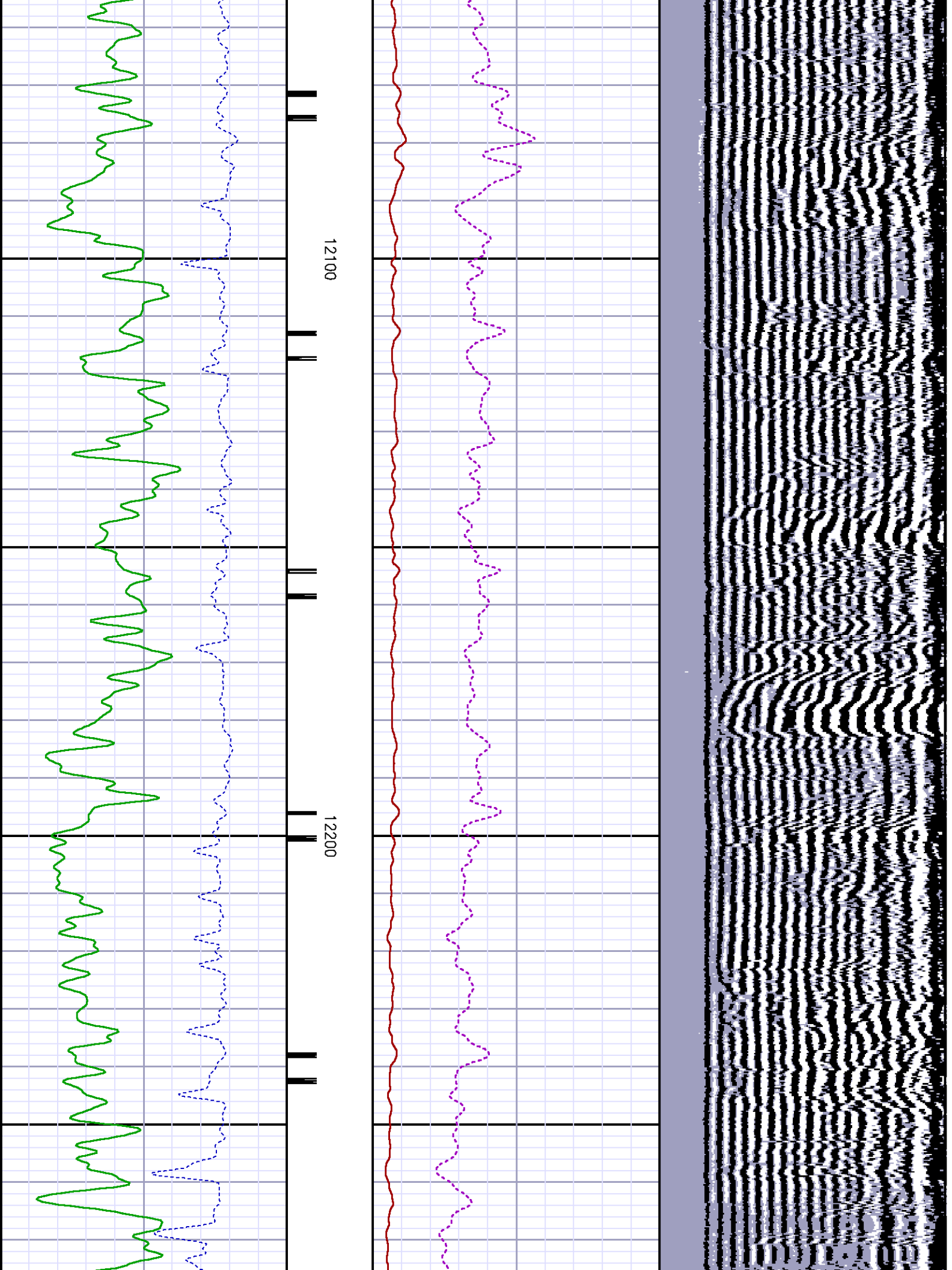


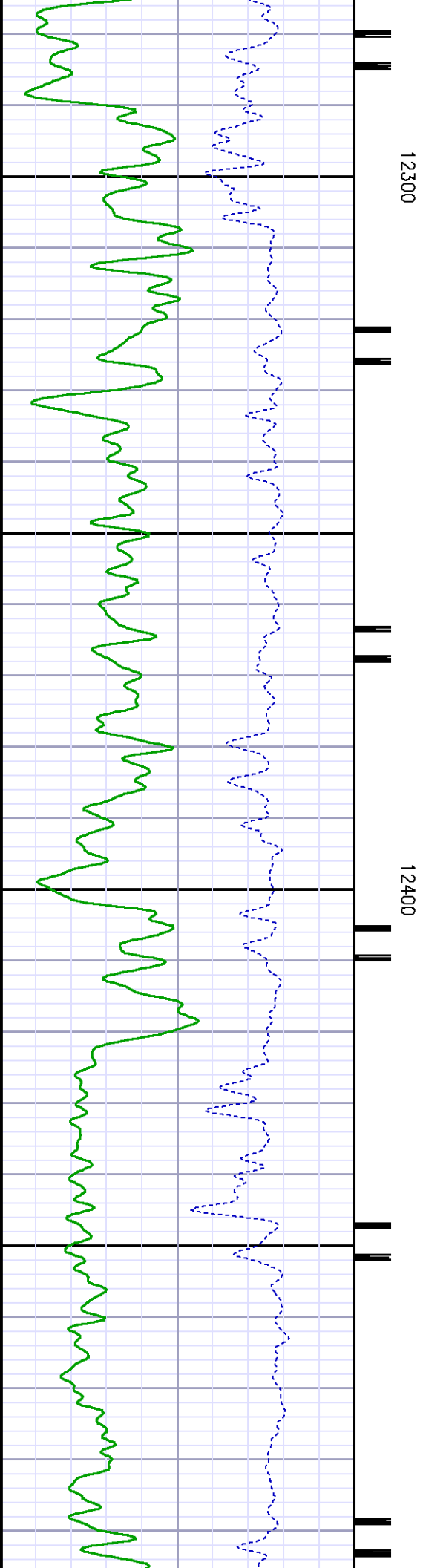
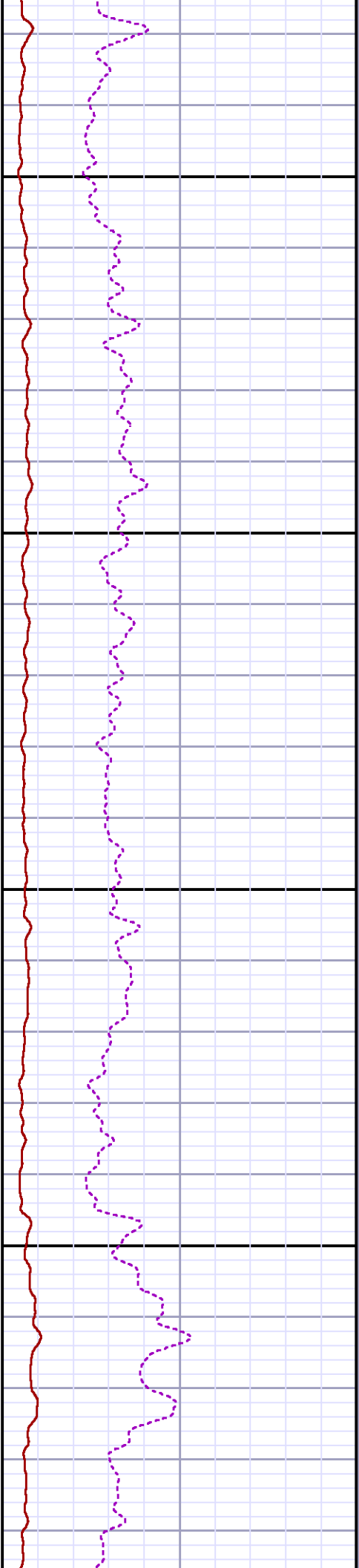
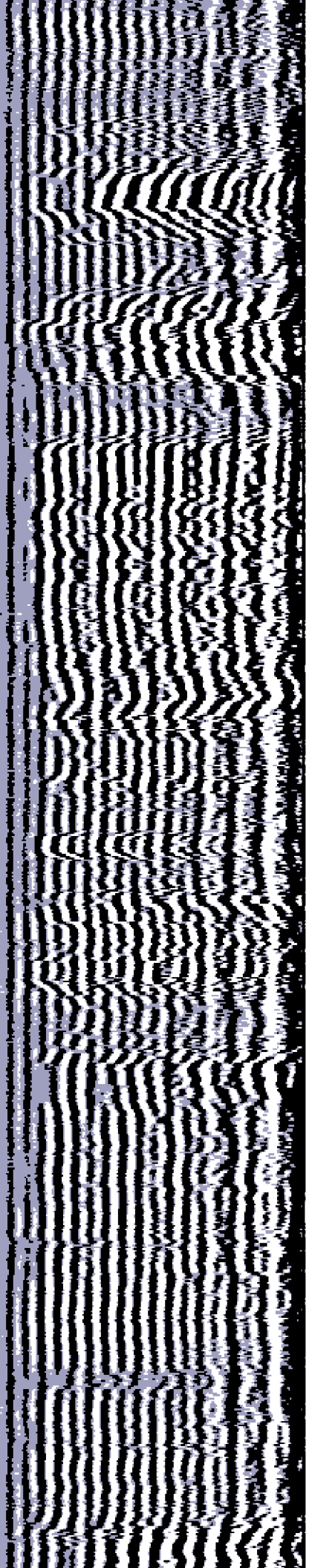


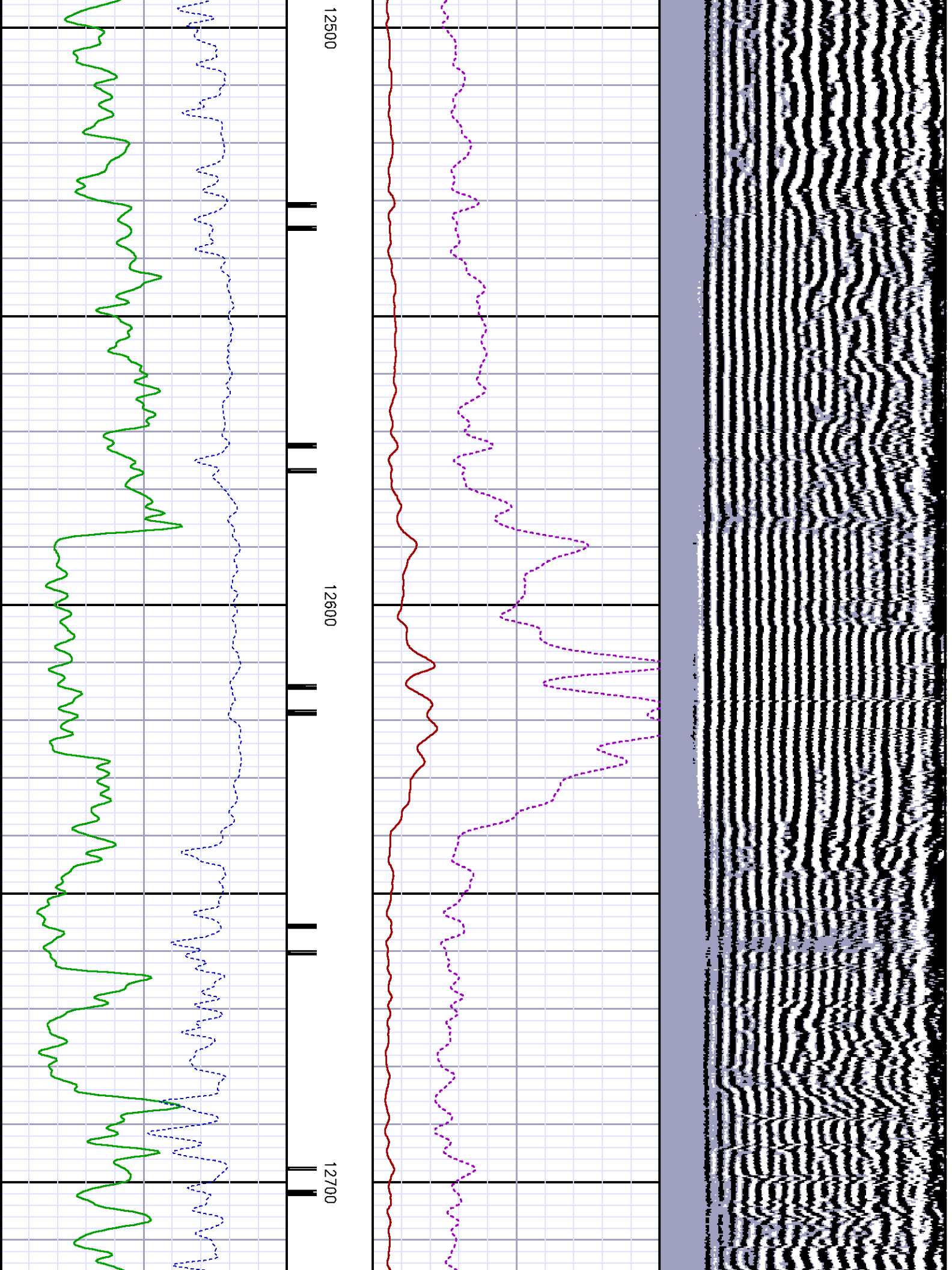


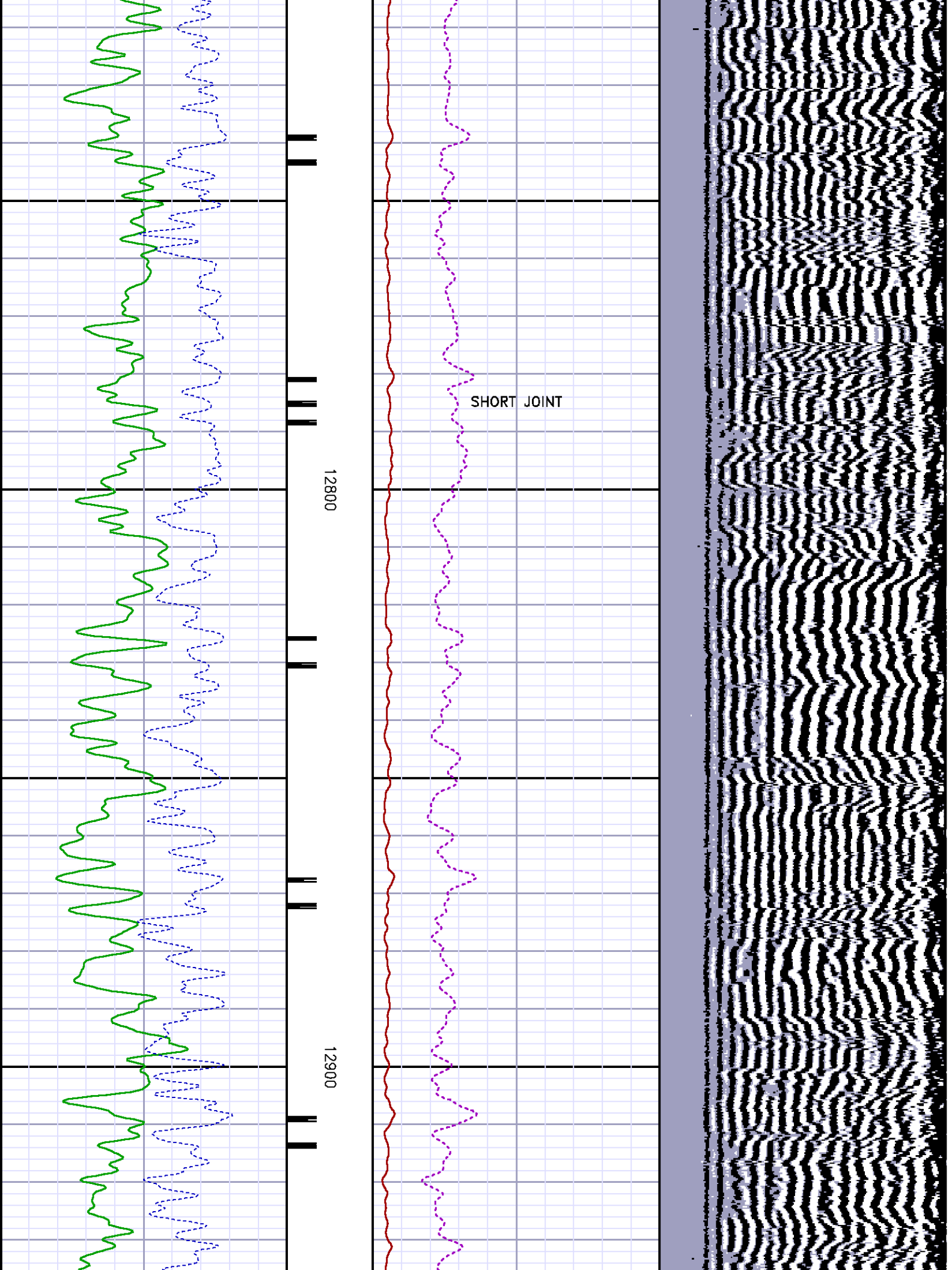


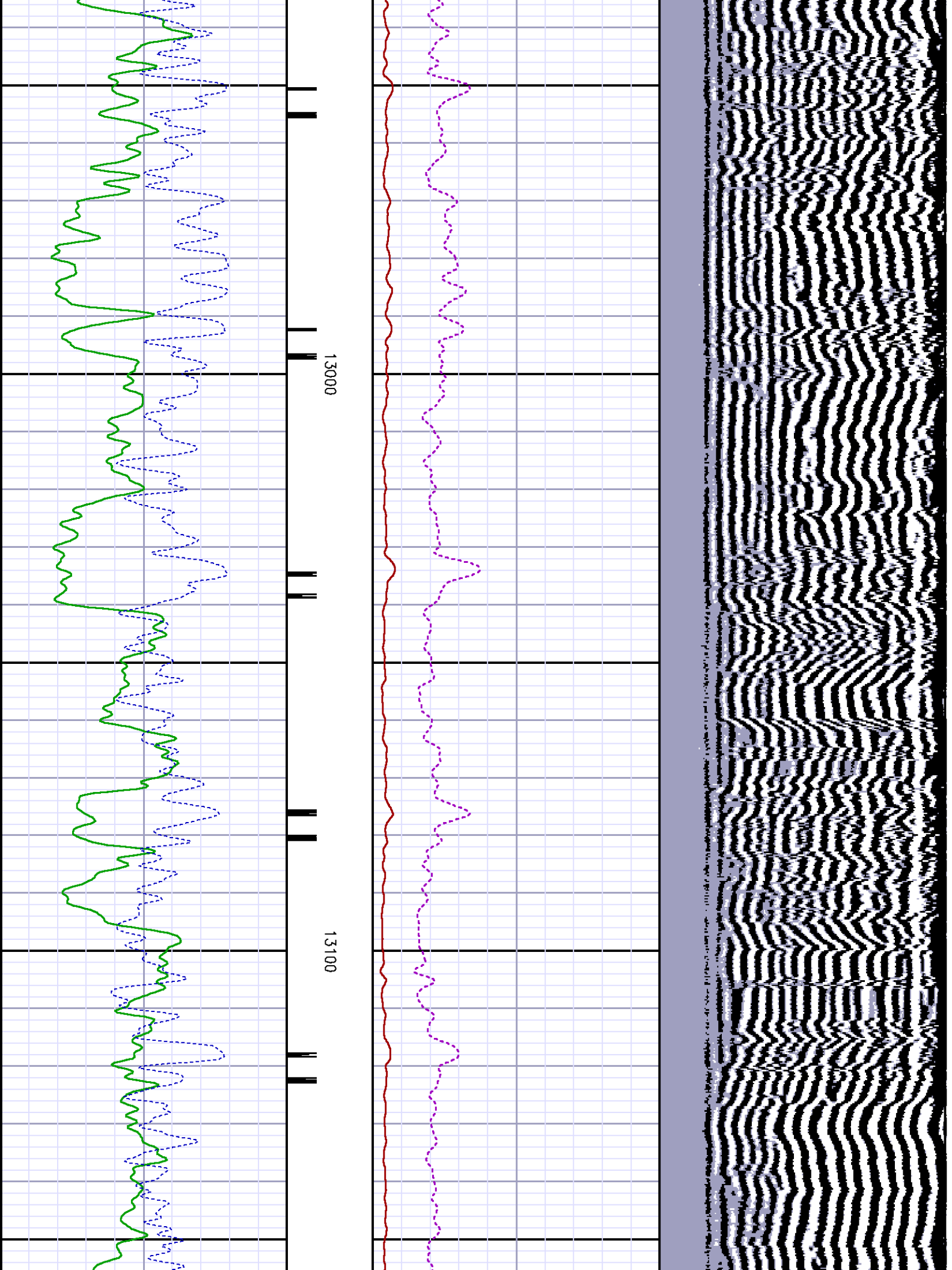


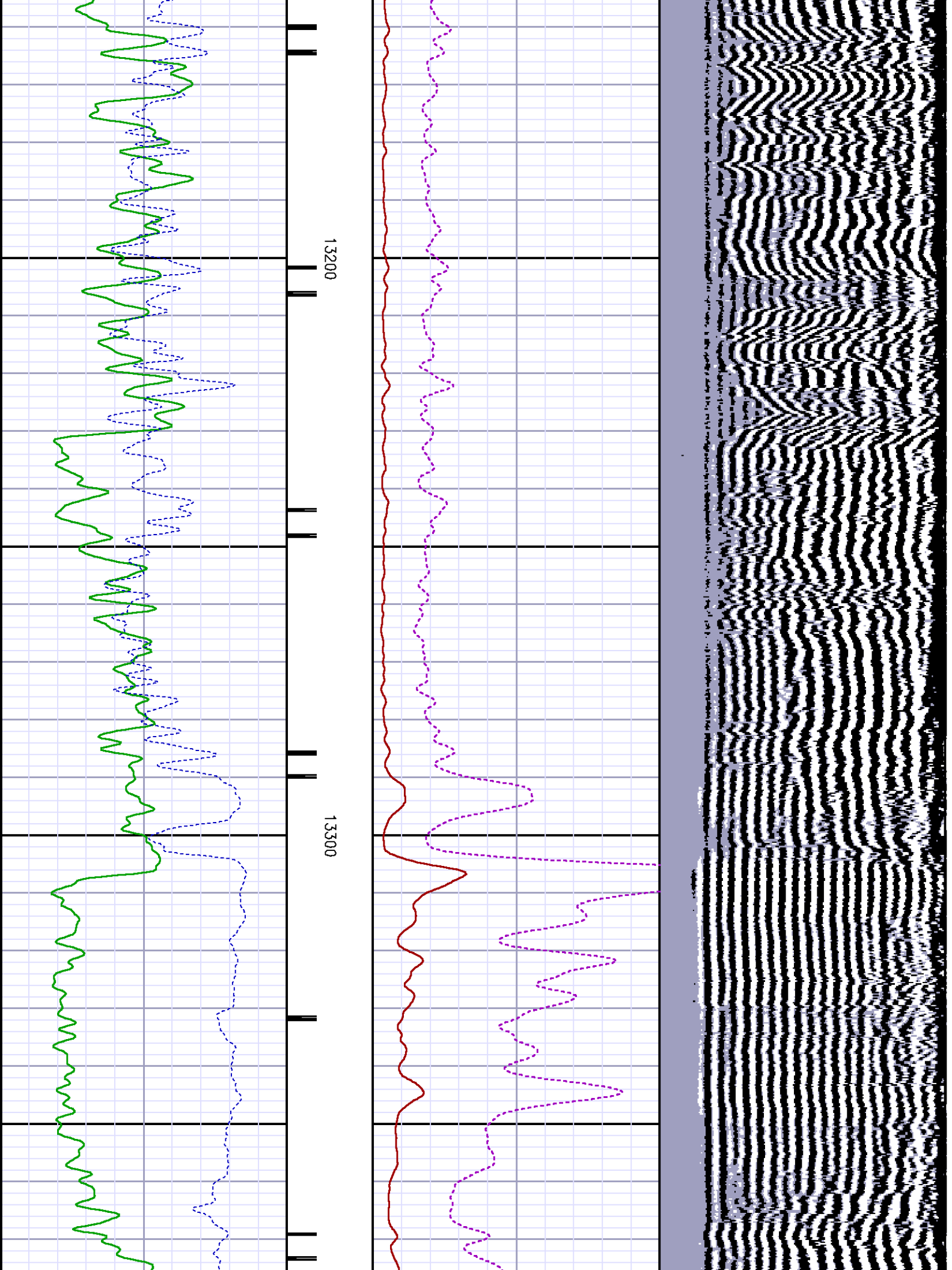


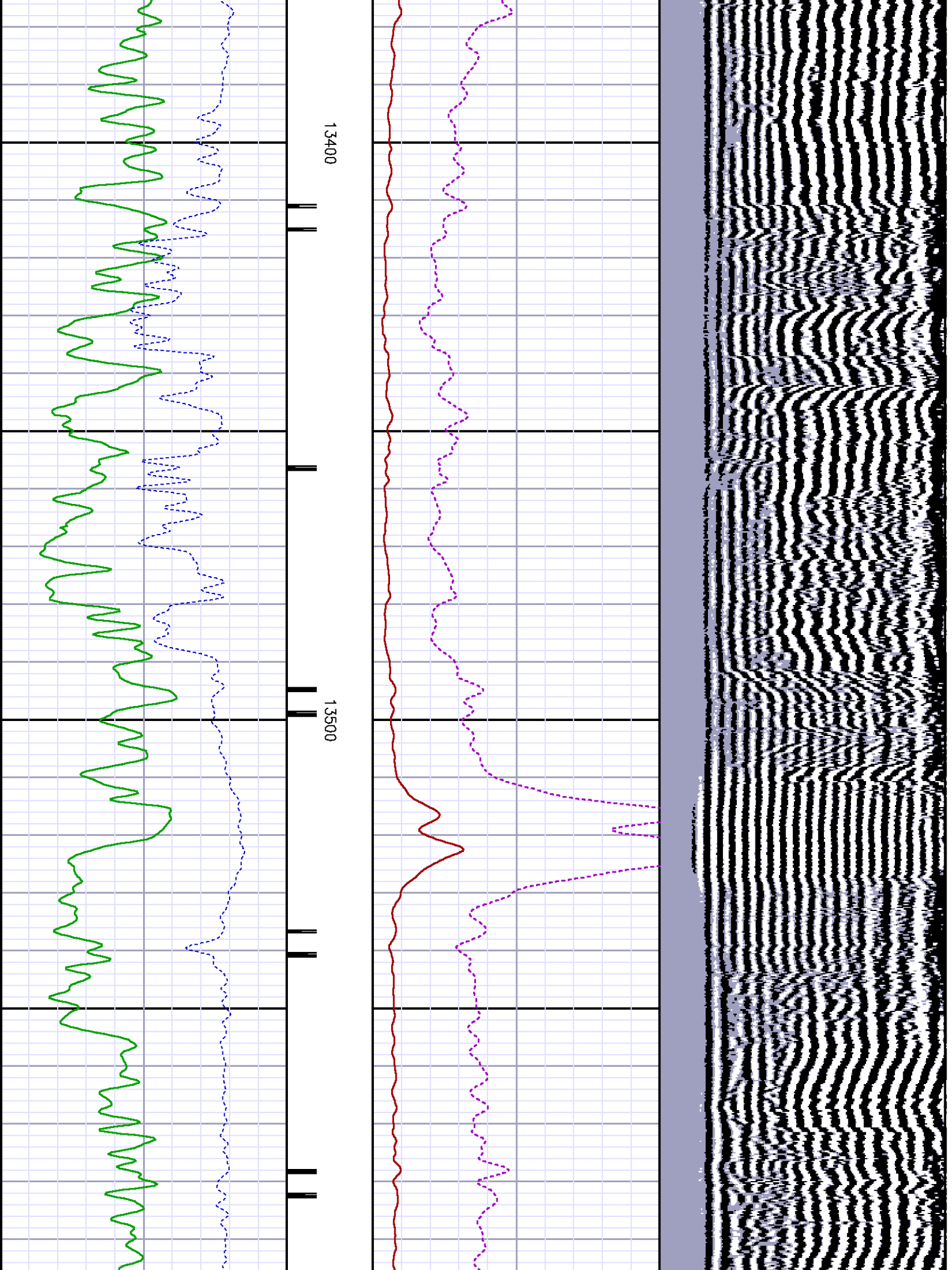


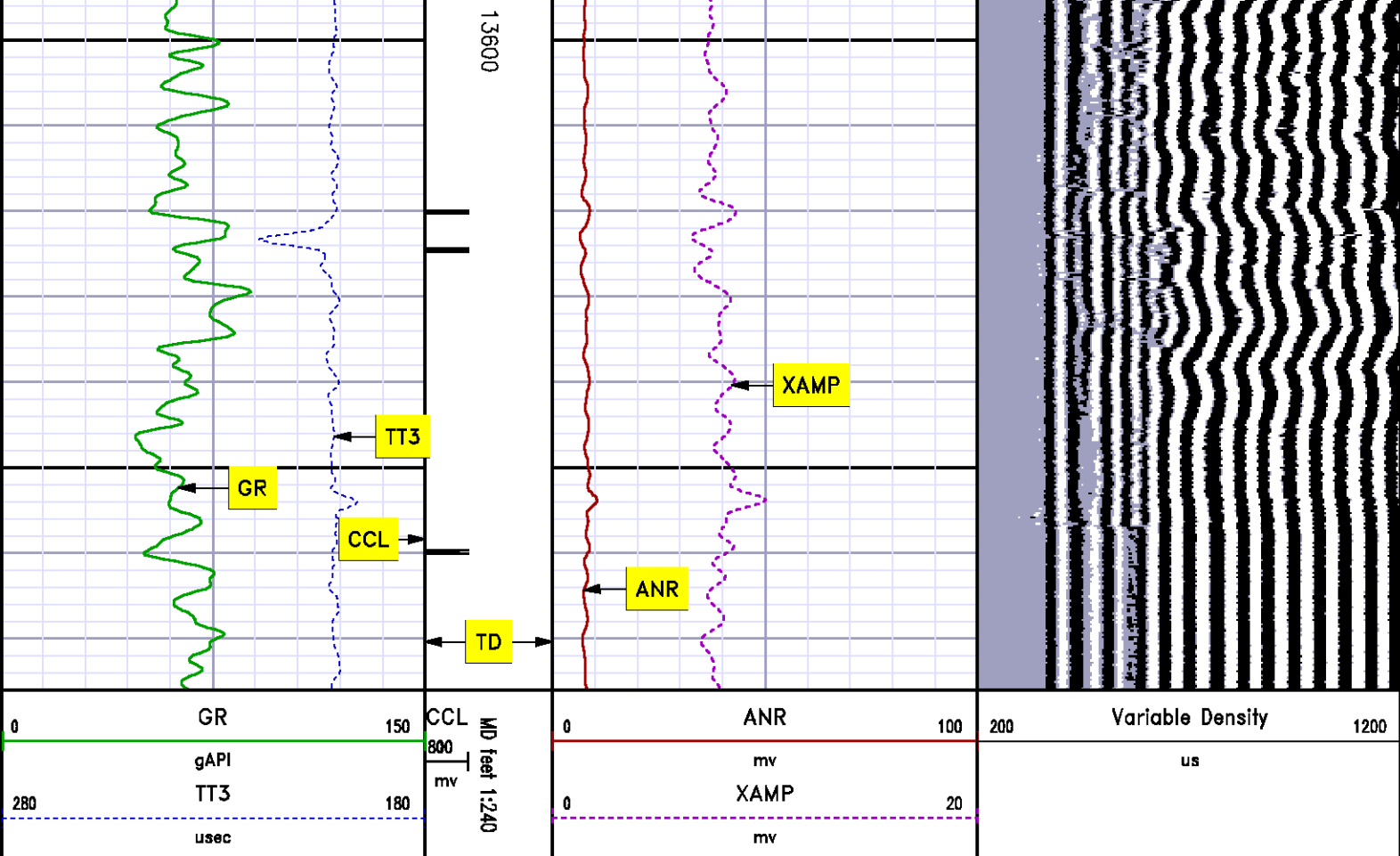












MAIN SECTION **SECONDARY PRESENTATION** **0 PSI**

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	301.836	usec	5938.000	13699.000
RAL	Amp Gate Start Near	190.553	usec	5938.000	13699.000
RAL	Amp Gate Start Radial	197.754	usec	5938.000	13699.000
RAL	Amp Gate Width Far	25.000	usec	5938.000	13699.000
RAL	Amp Gate Width Near	25.000	usec	5938.000	13699.000
RAL	Amp Gate Width Radial	25.000	usec	5938.000	13699.000
RAL	casing od	4.500	inches	5938.000	13699.000
RAL	casing wt	15.100	lbm/ft	5938.000	13699.000
RAI	FB Start Far	289.263	usec	5938.000	13699.000

RAL	FB Start Near	172.754	usec	5938.000	13699.000
RAL	FB Start Radial	172.754	usec	5938.000	13699.000
RAL	FB Thresh Far	10.000	mv	5938.000	13699.000
RAL	FB Thresh Near	4.000	mv	5938.000	13699.000
RAL	FB Thresh Radial	4.000	mv	5938.000	13699.000
RAL	Fluid Travel Time	200.000	usec/ft	5938.000	13699.843

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : MIXED

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

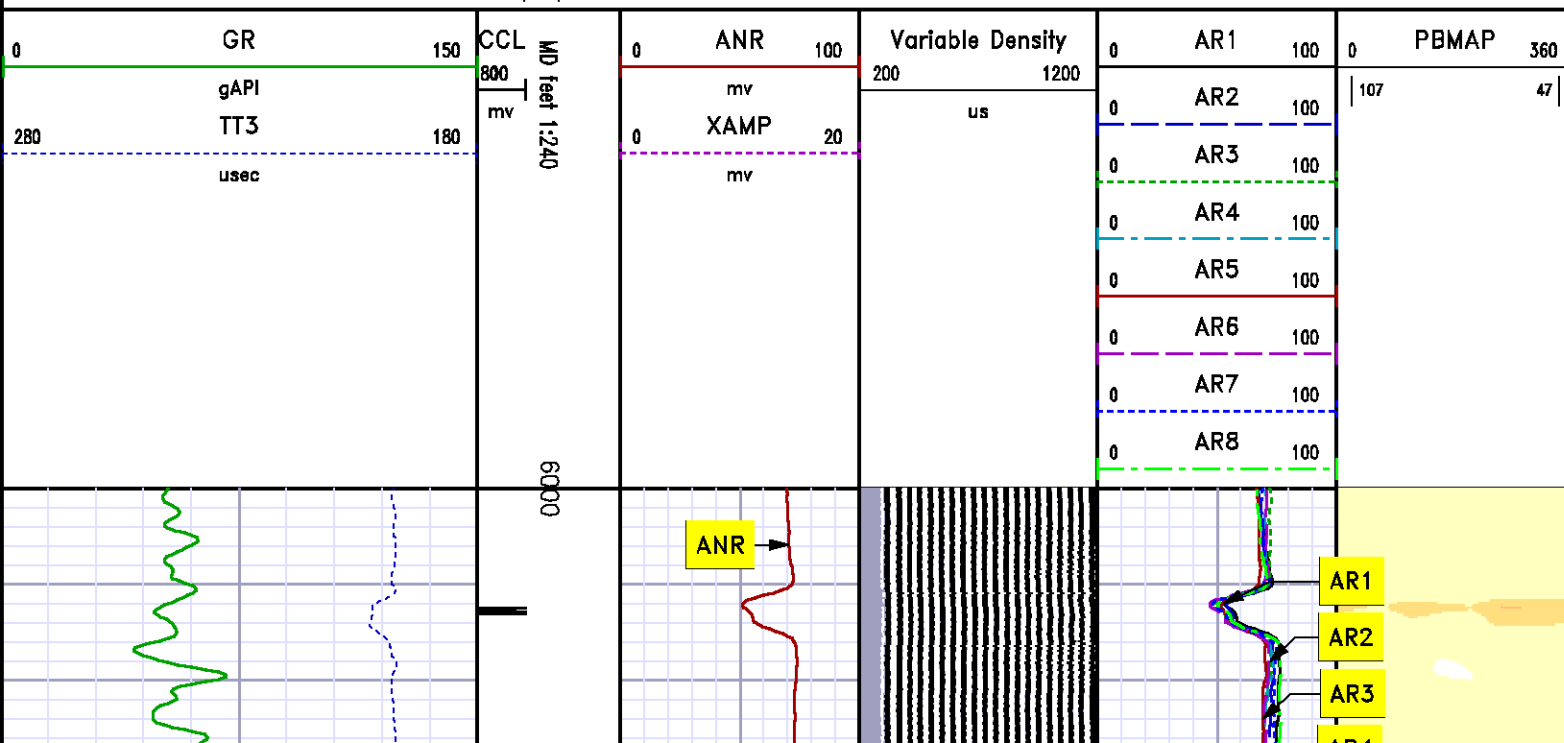
Well : PCU 296-6 A1

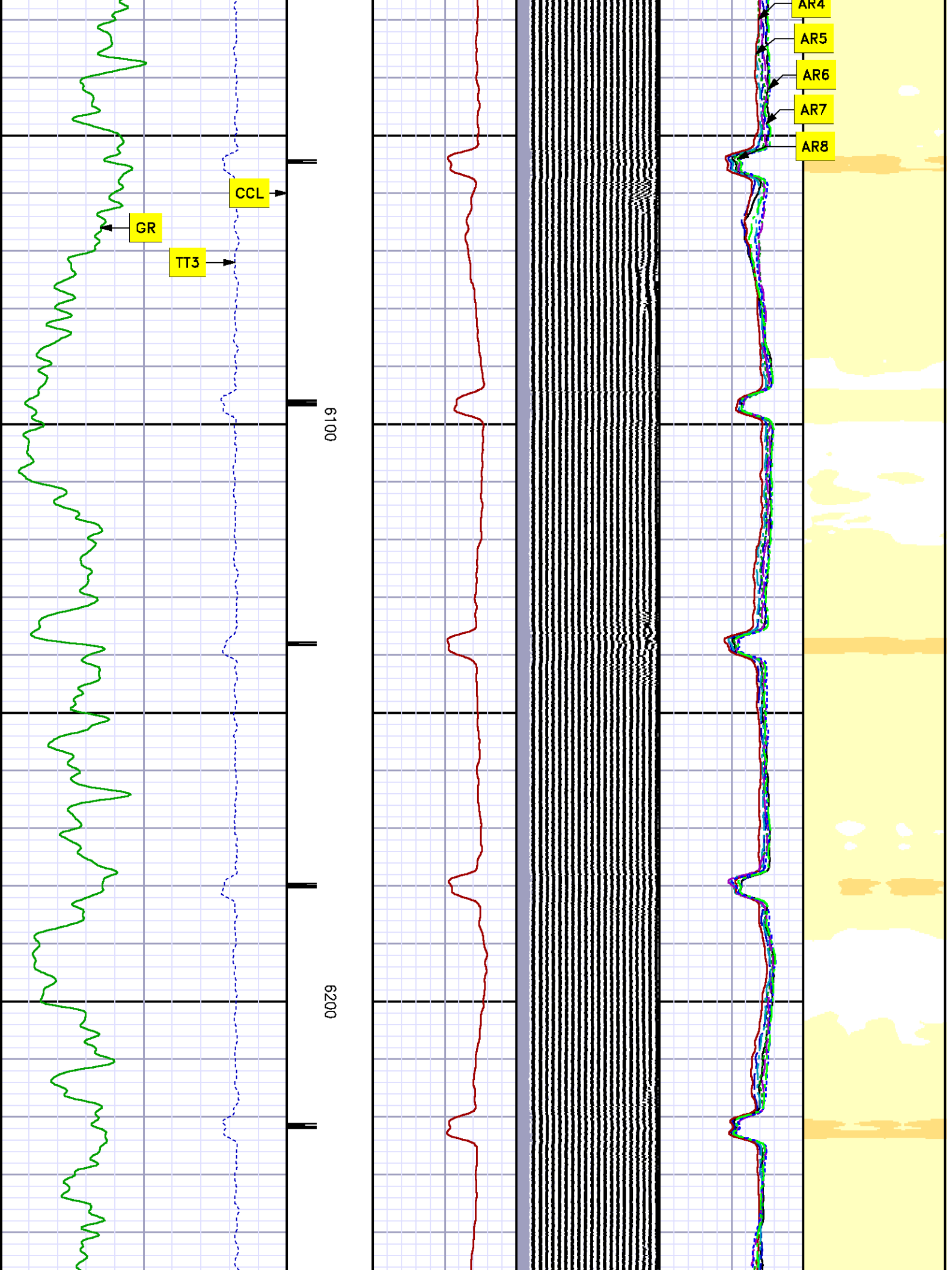
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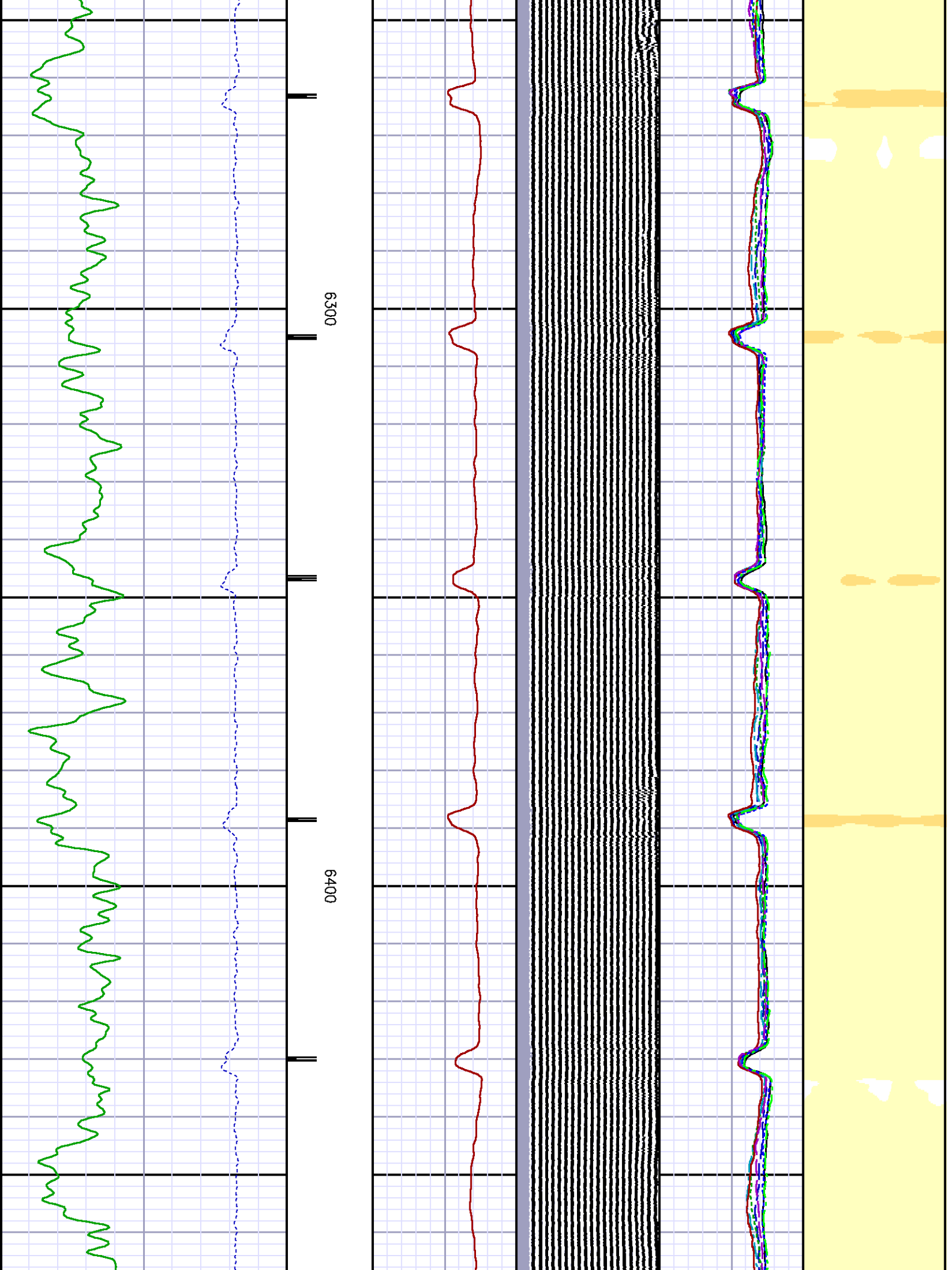
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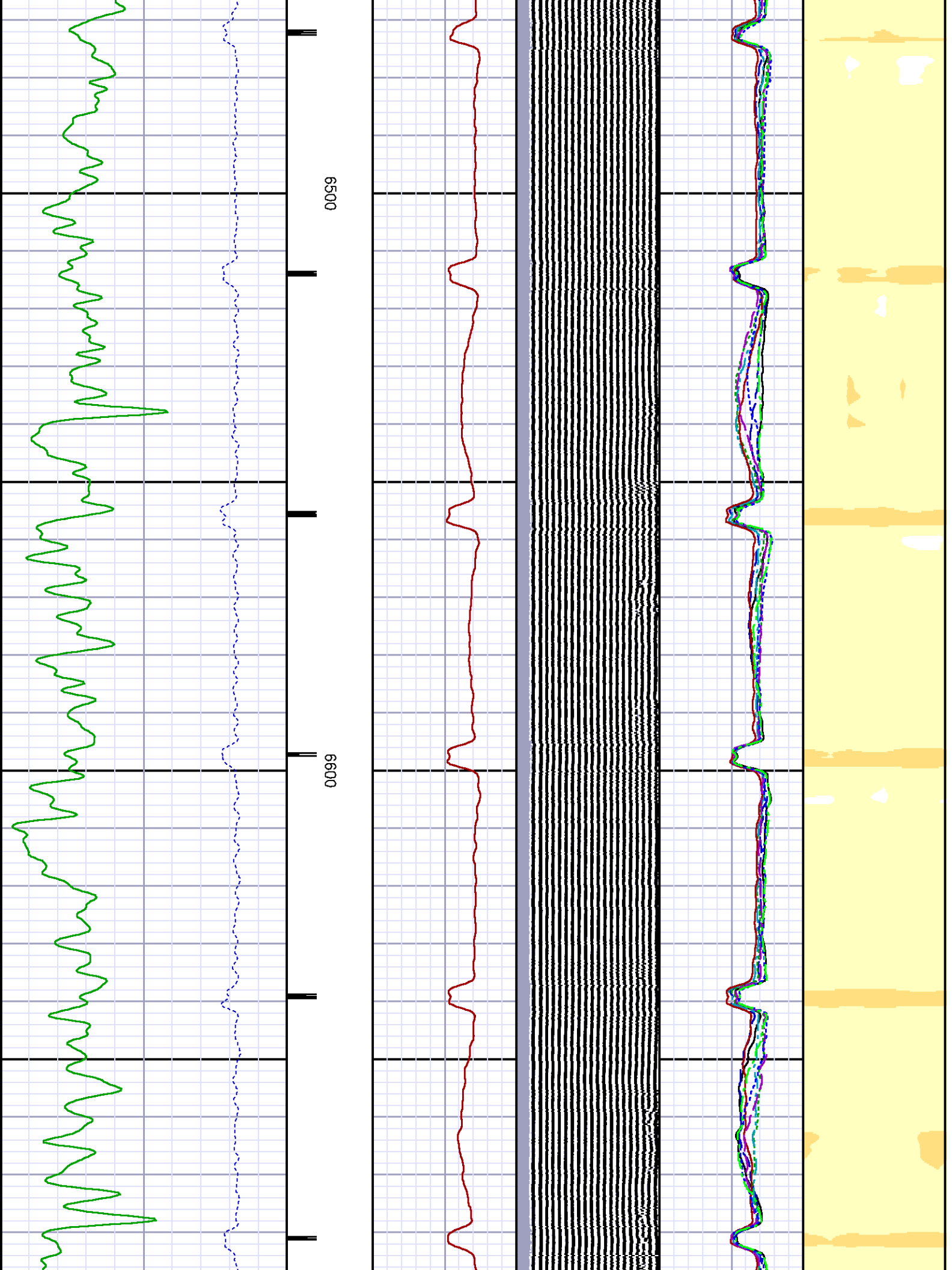
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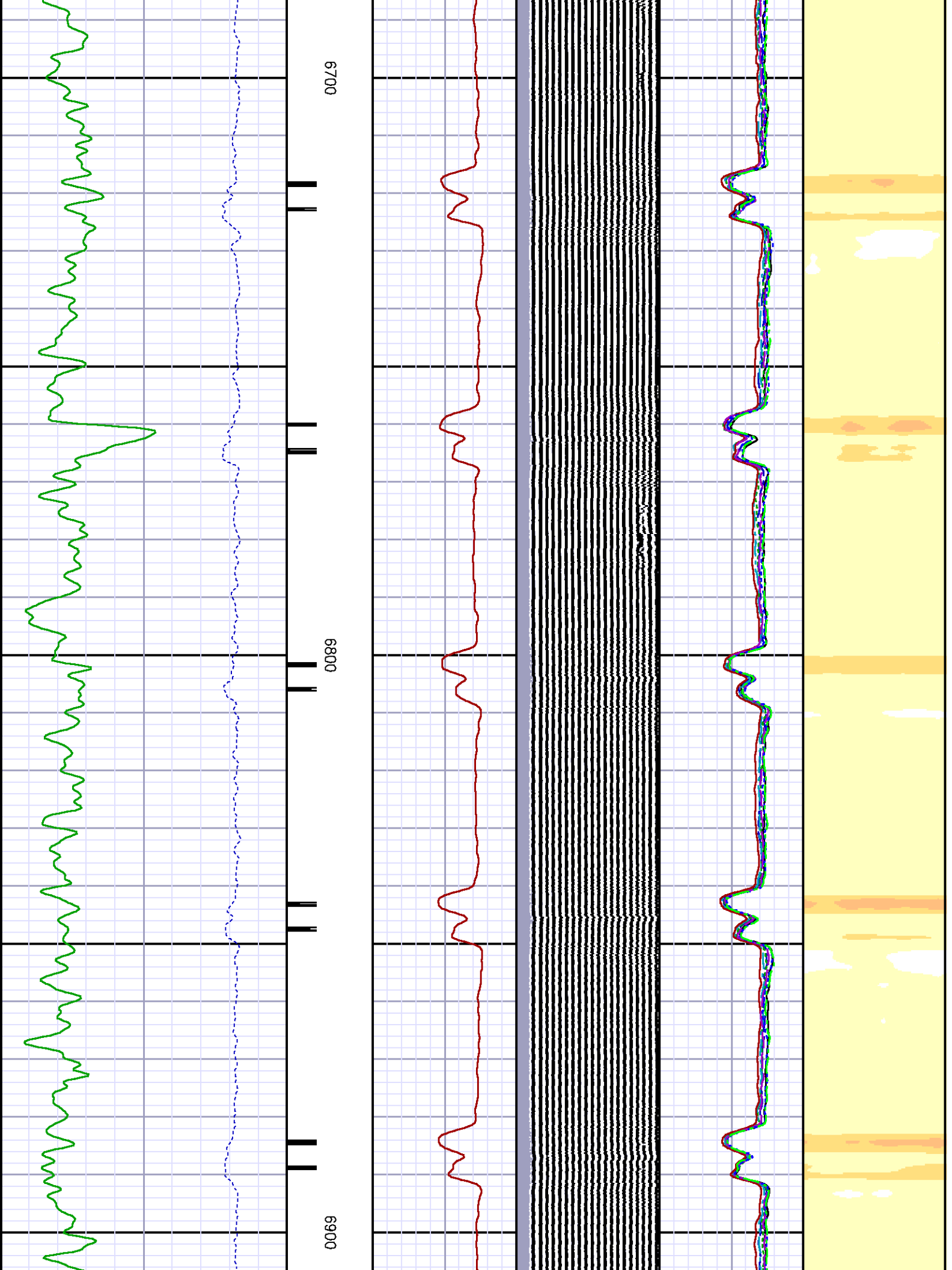
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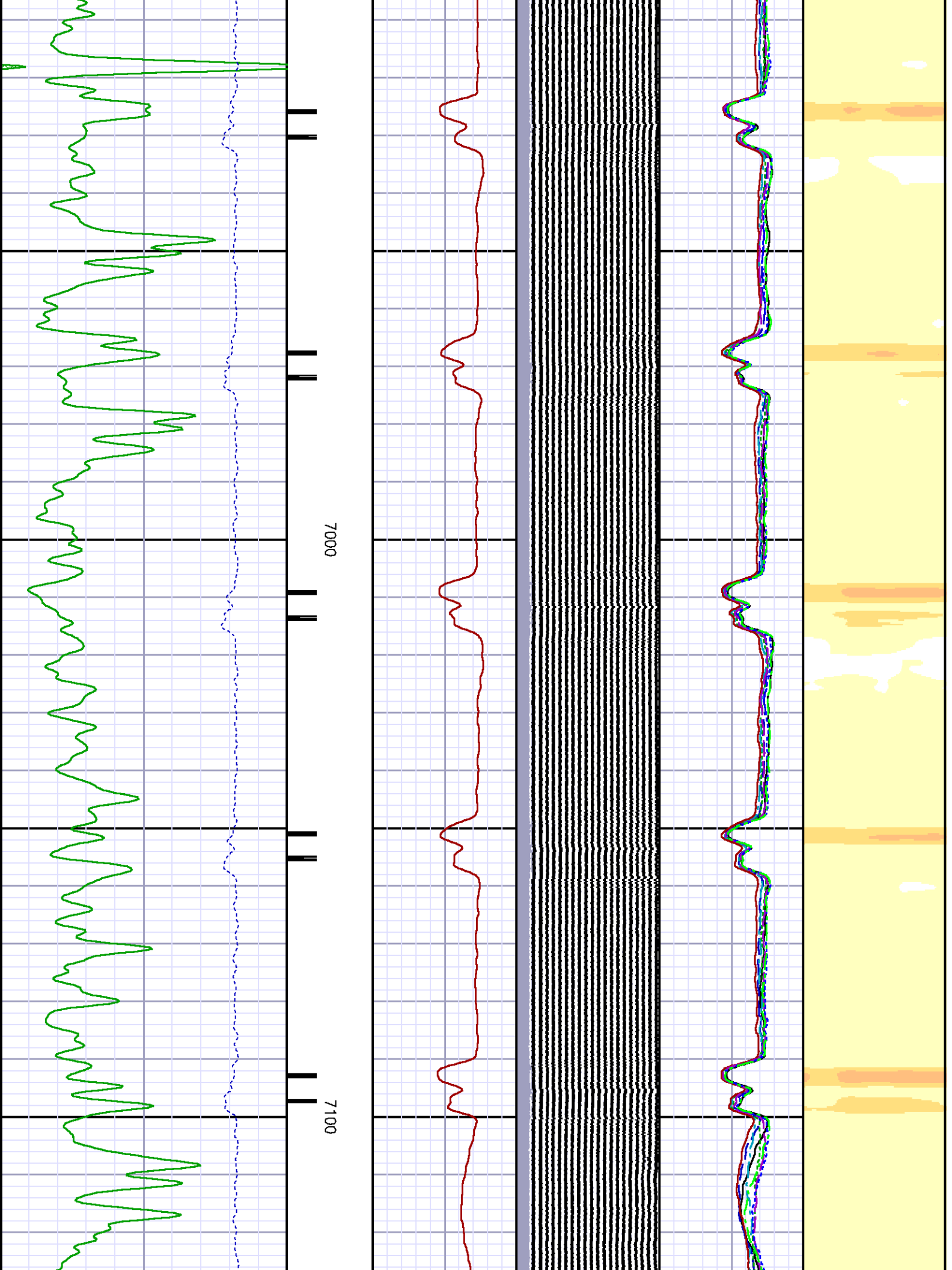


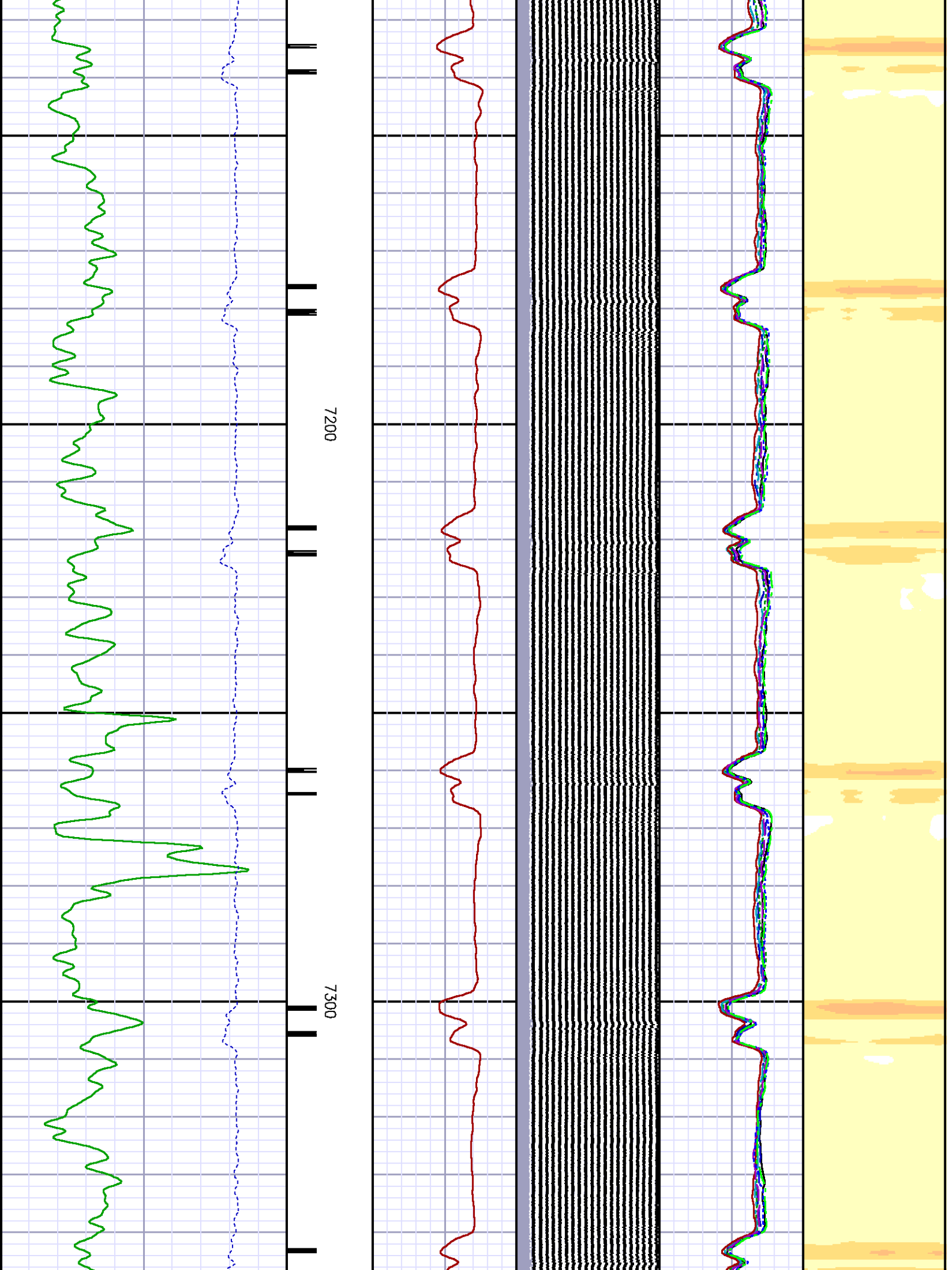


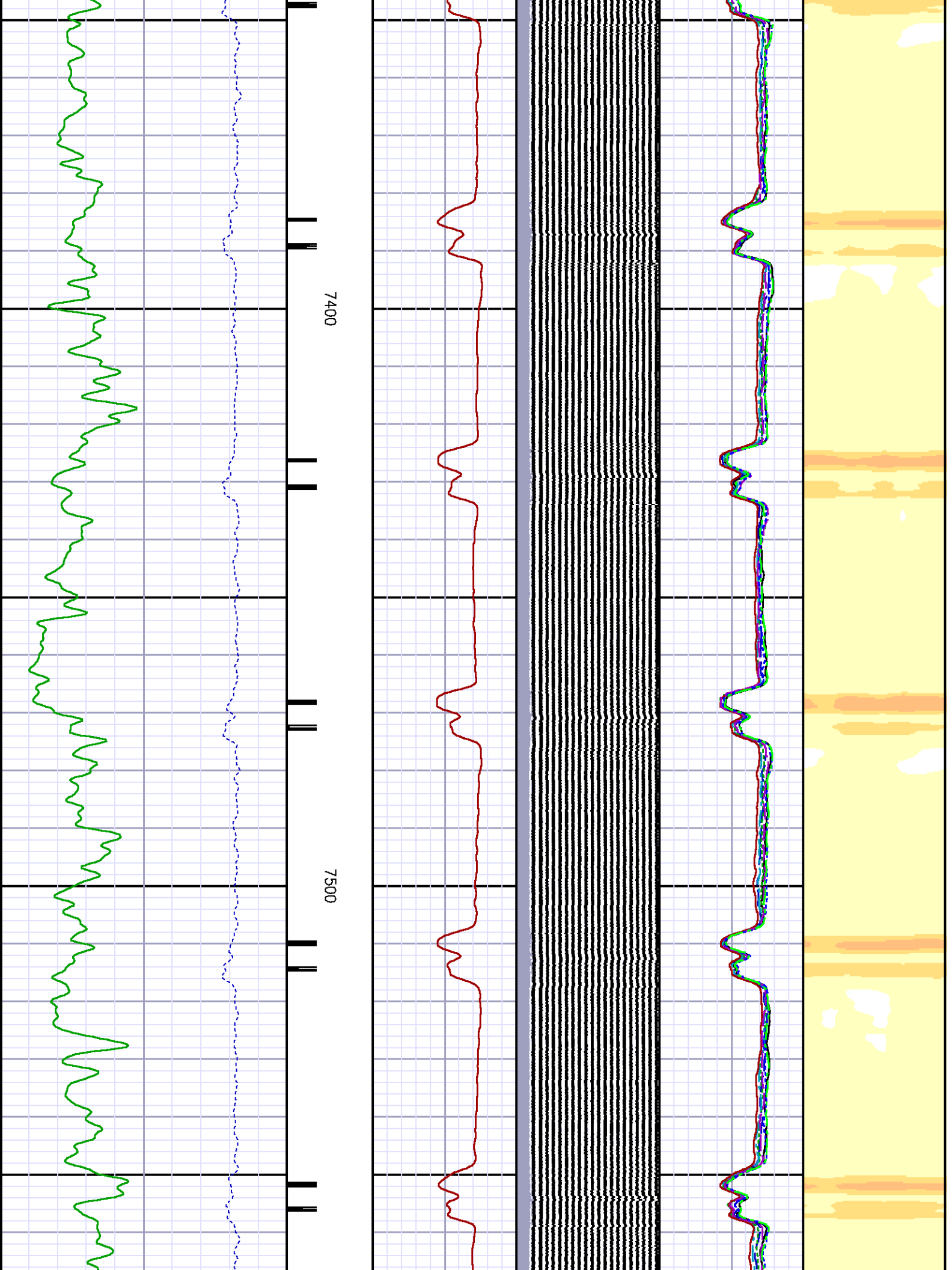


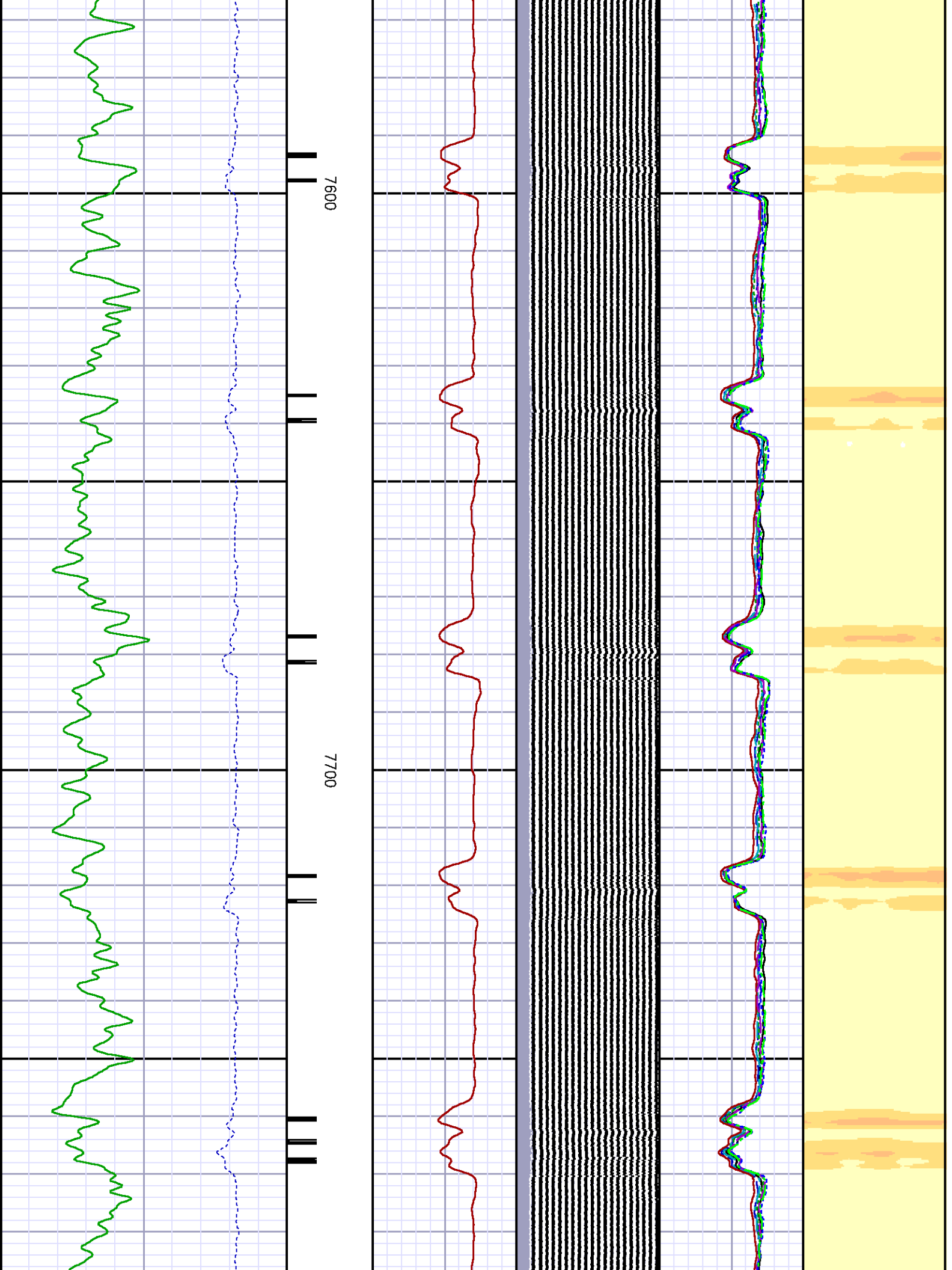


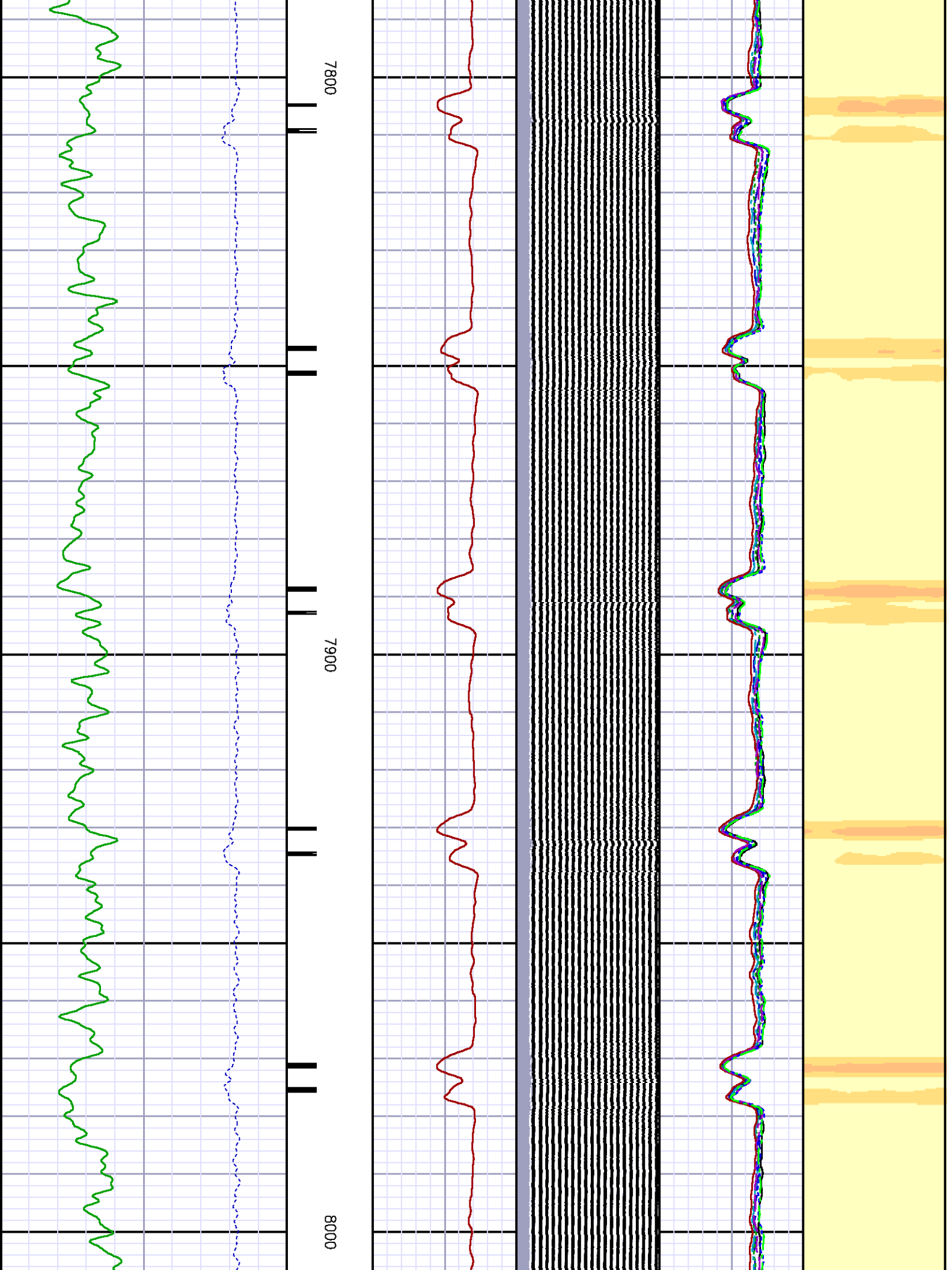


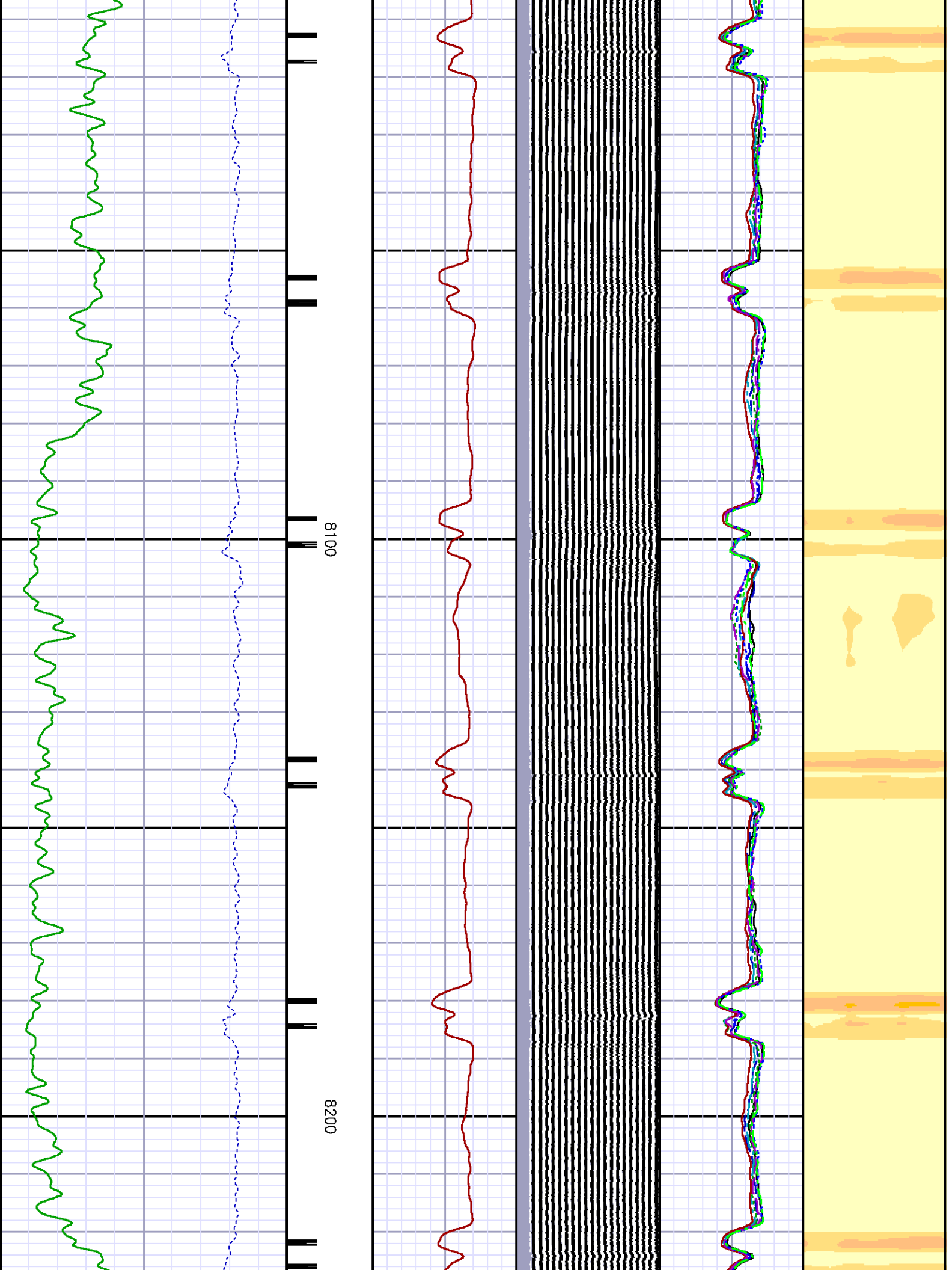


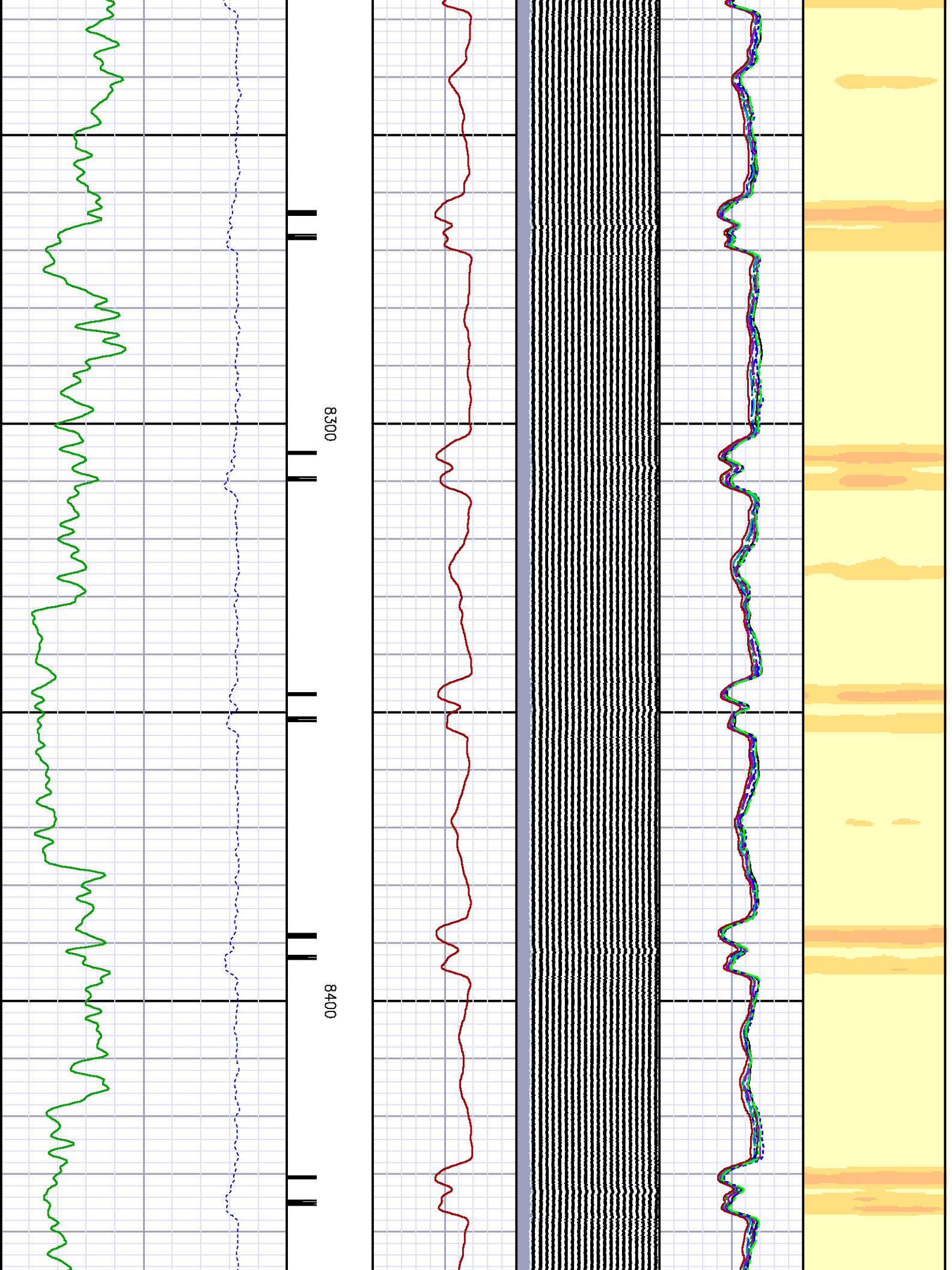


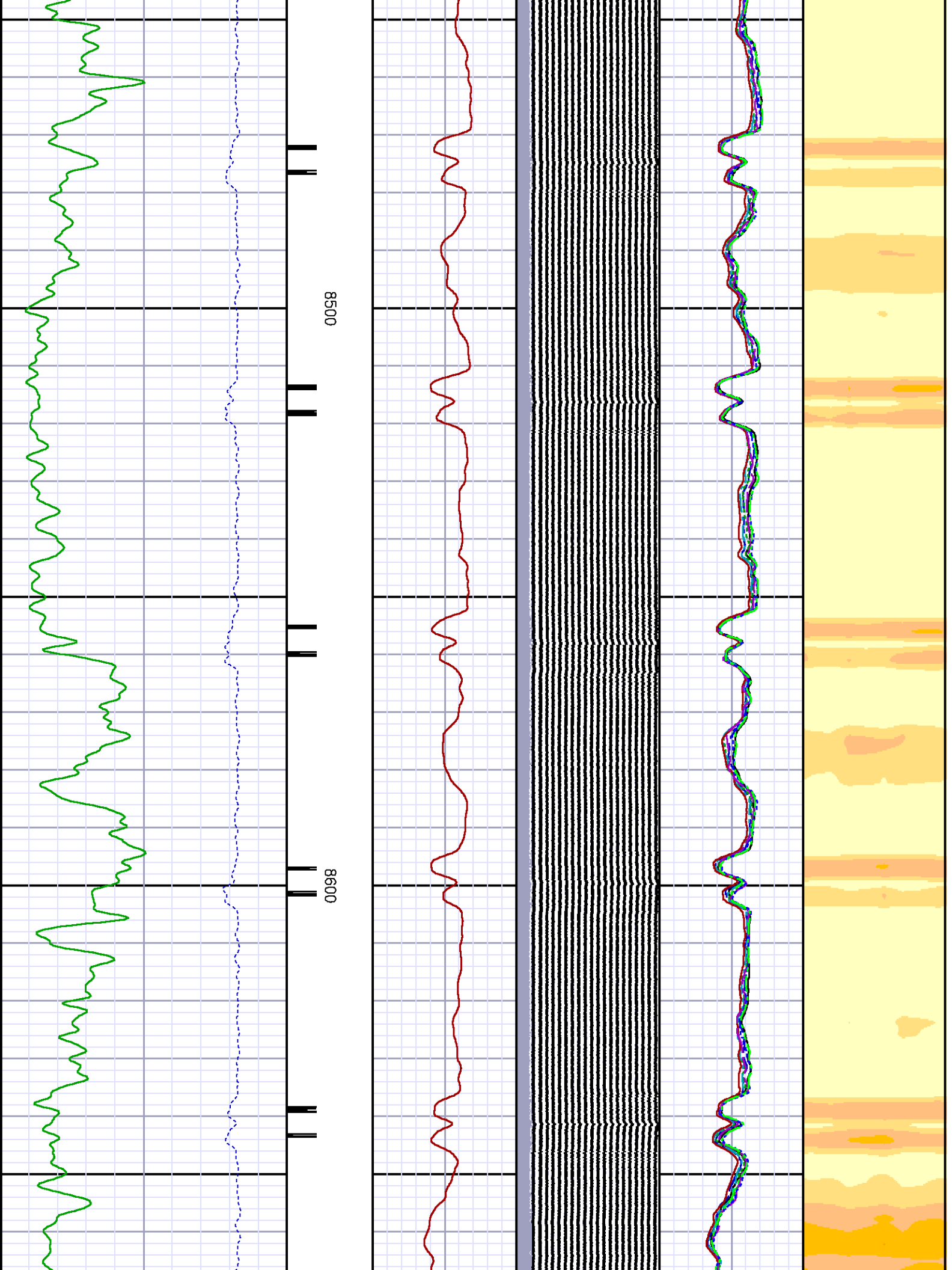


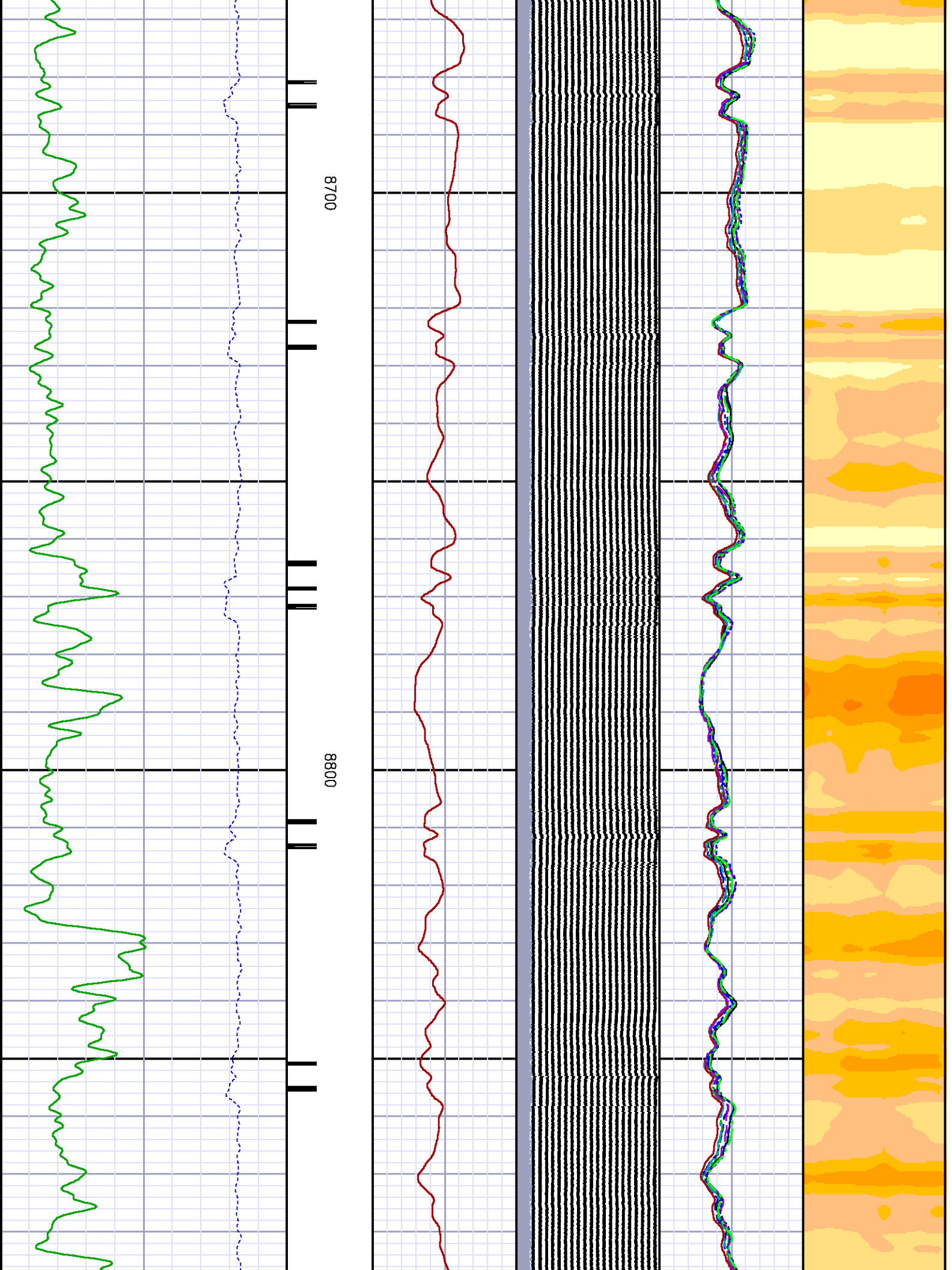


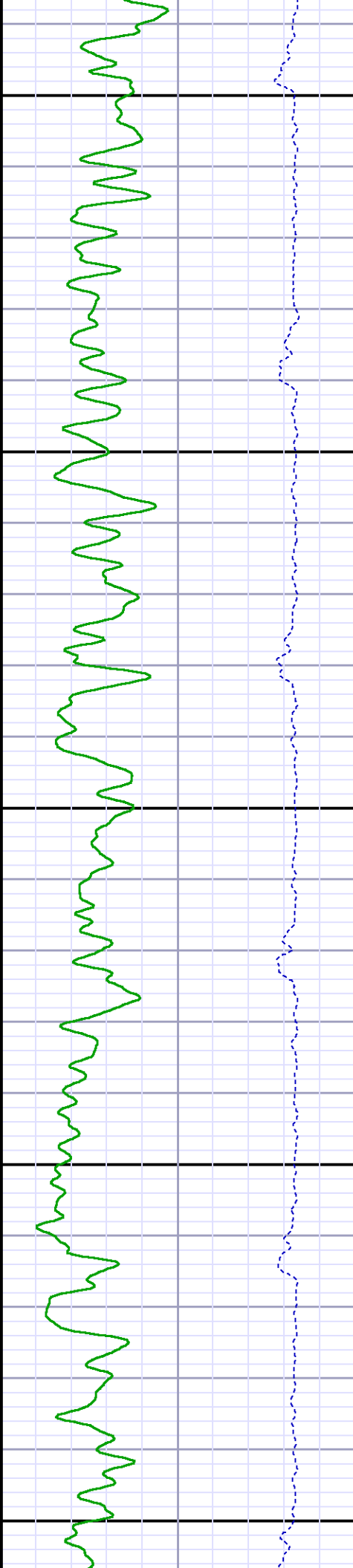
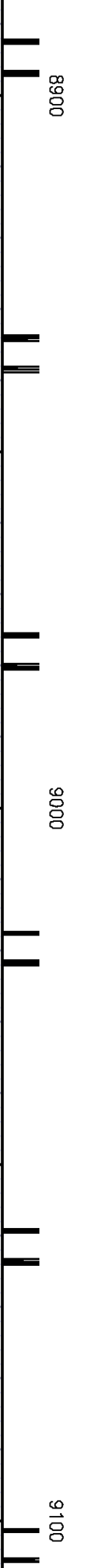
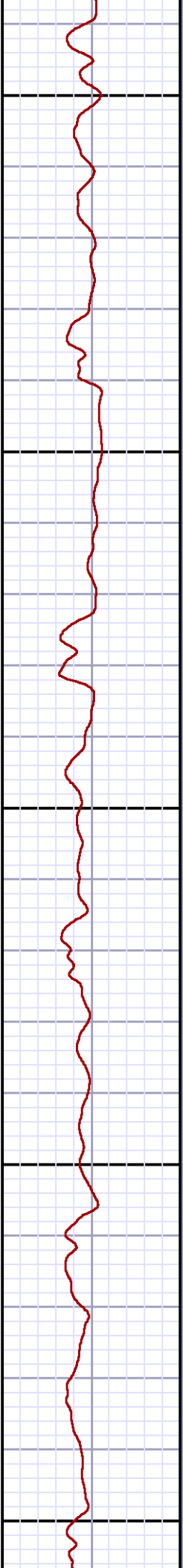
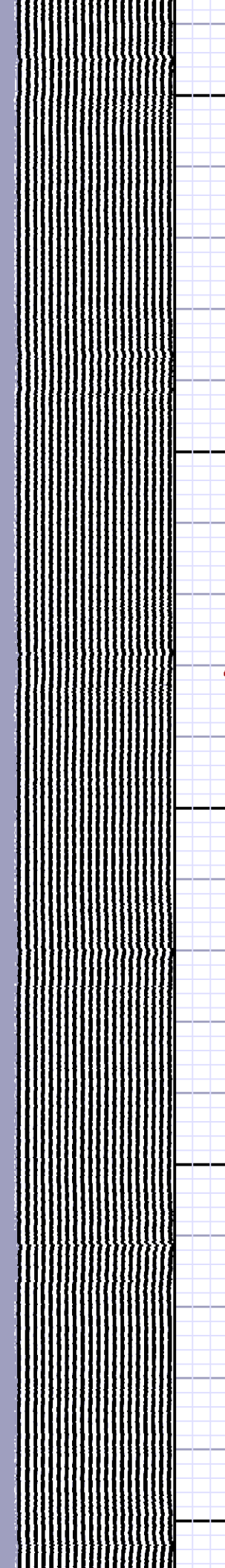
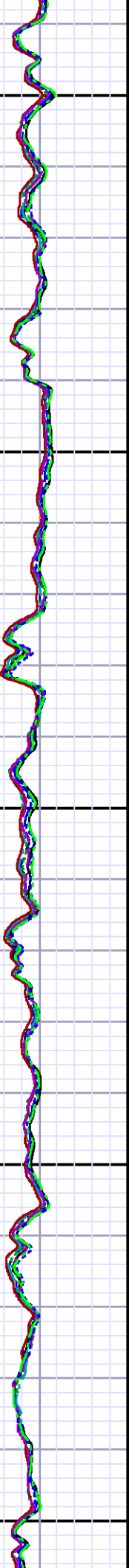
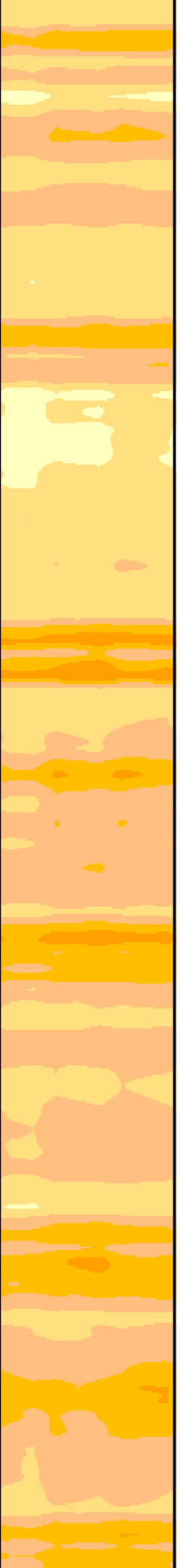


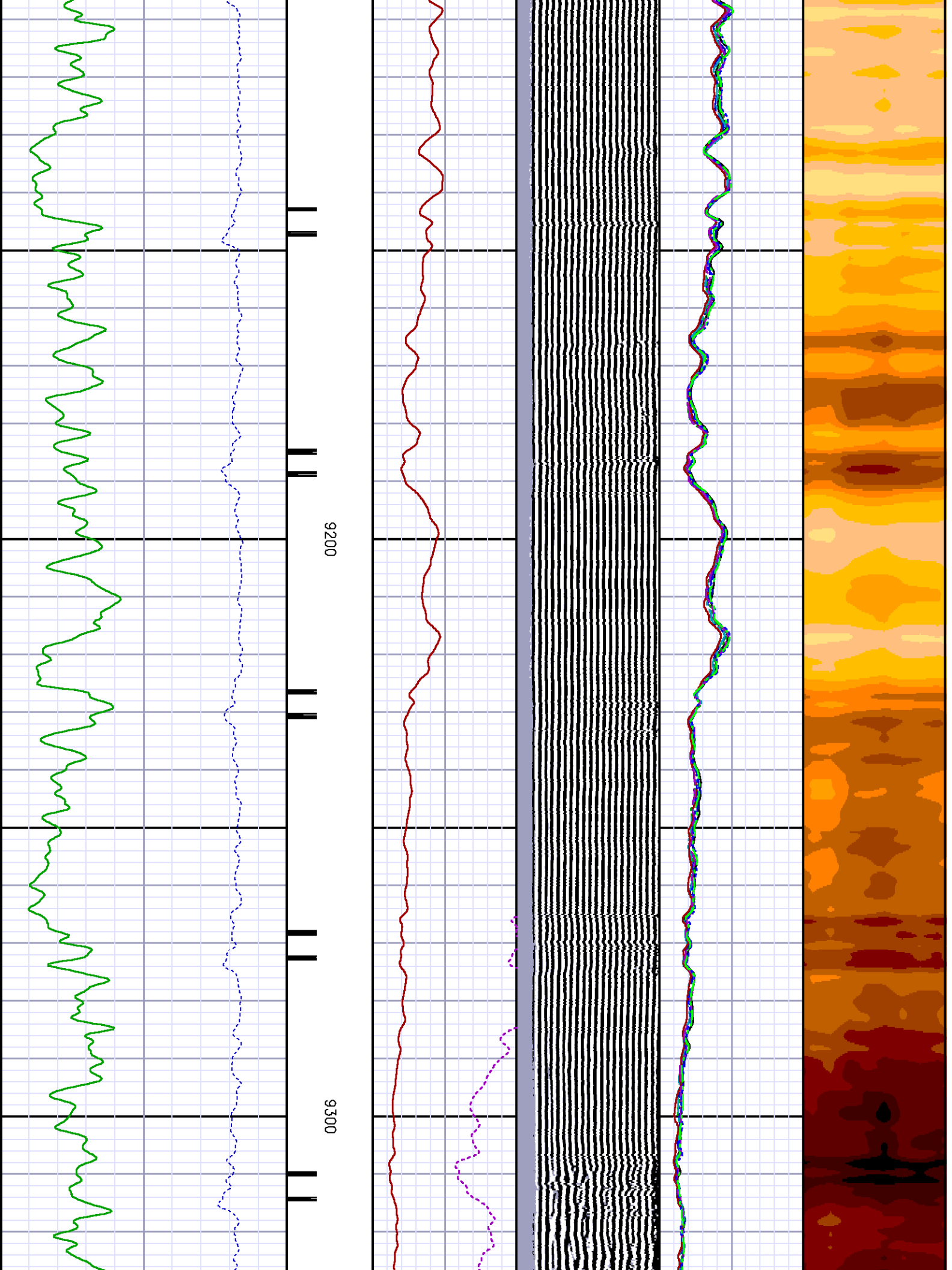


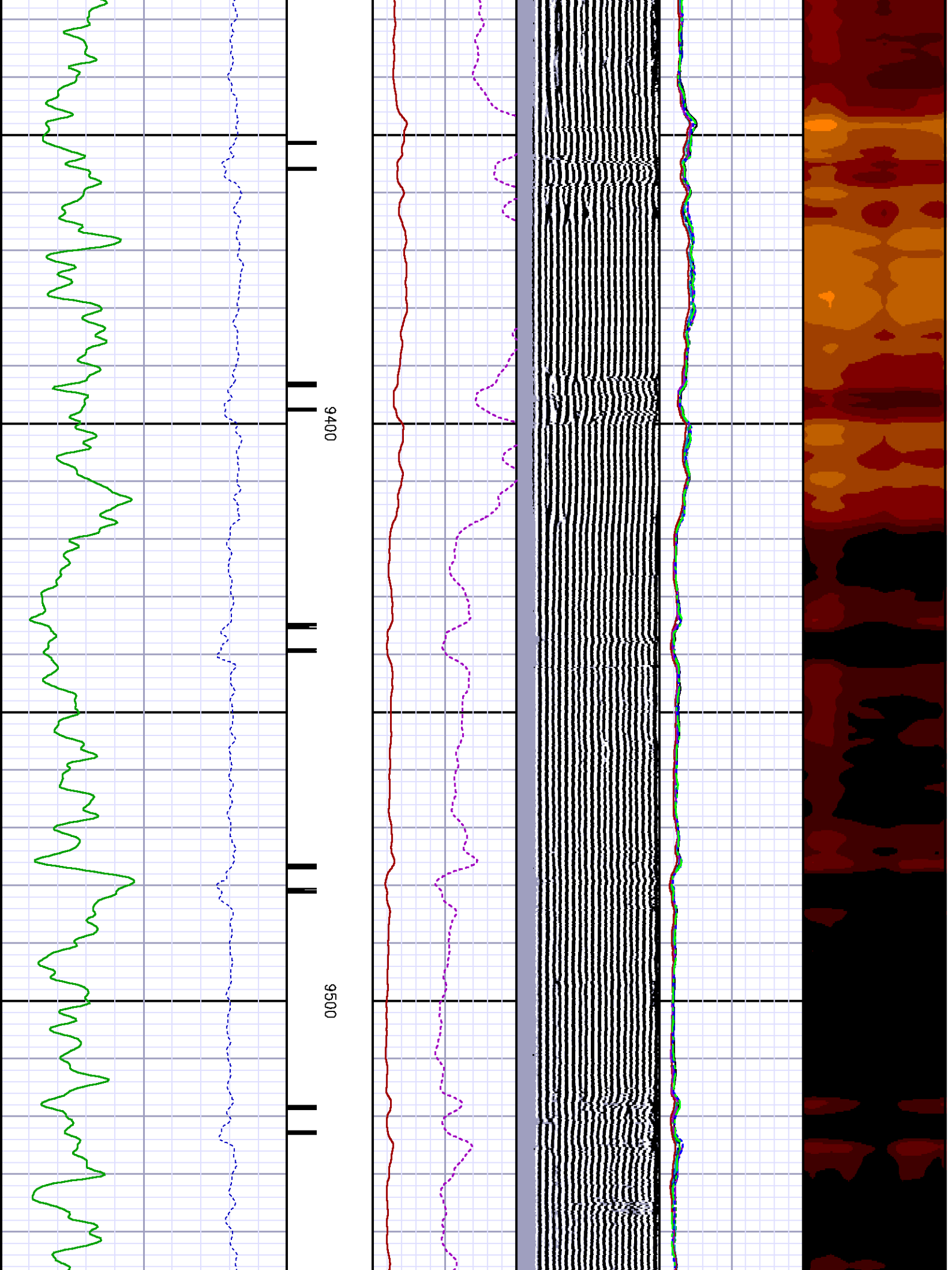


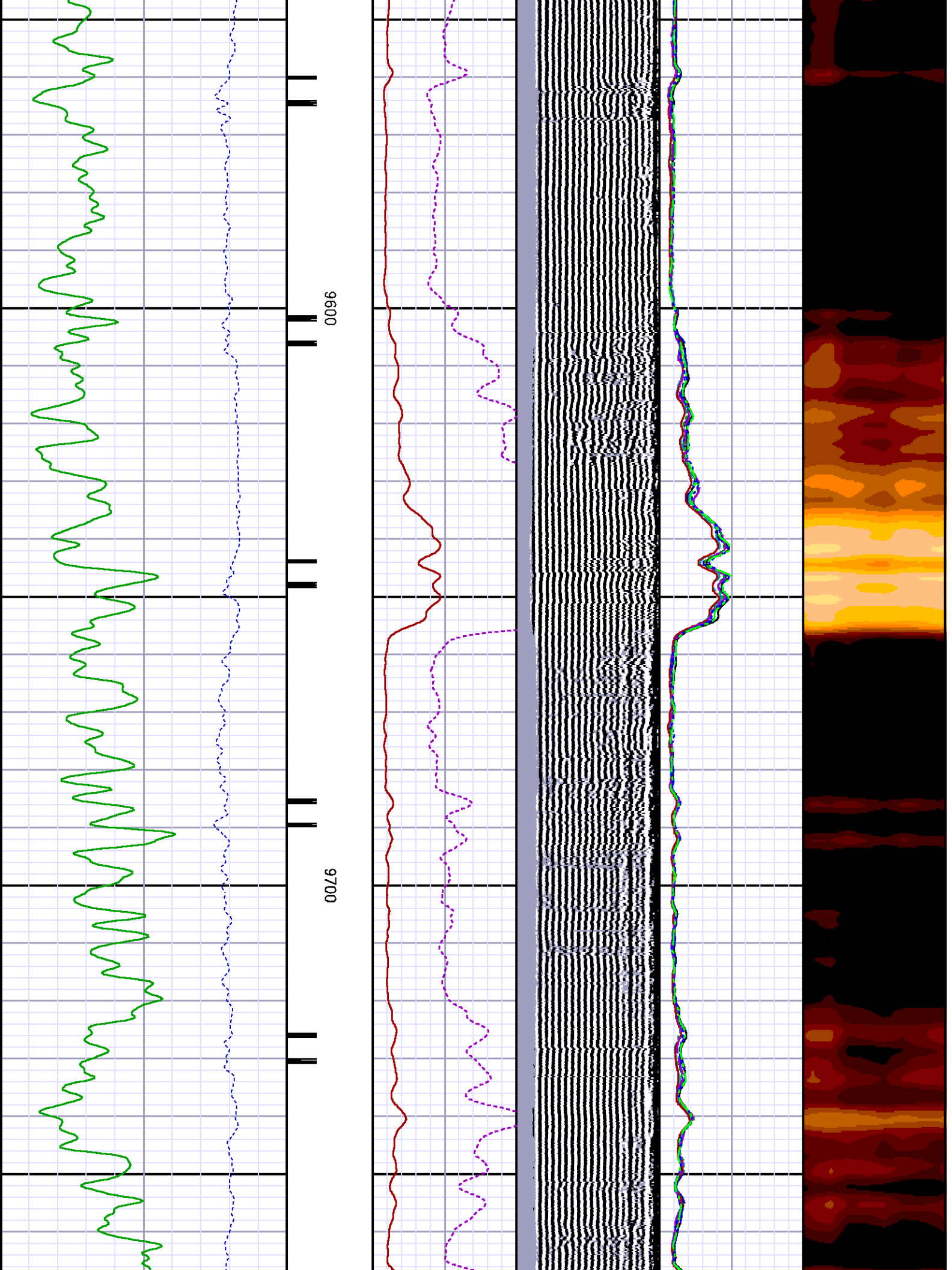


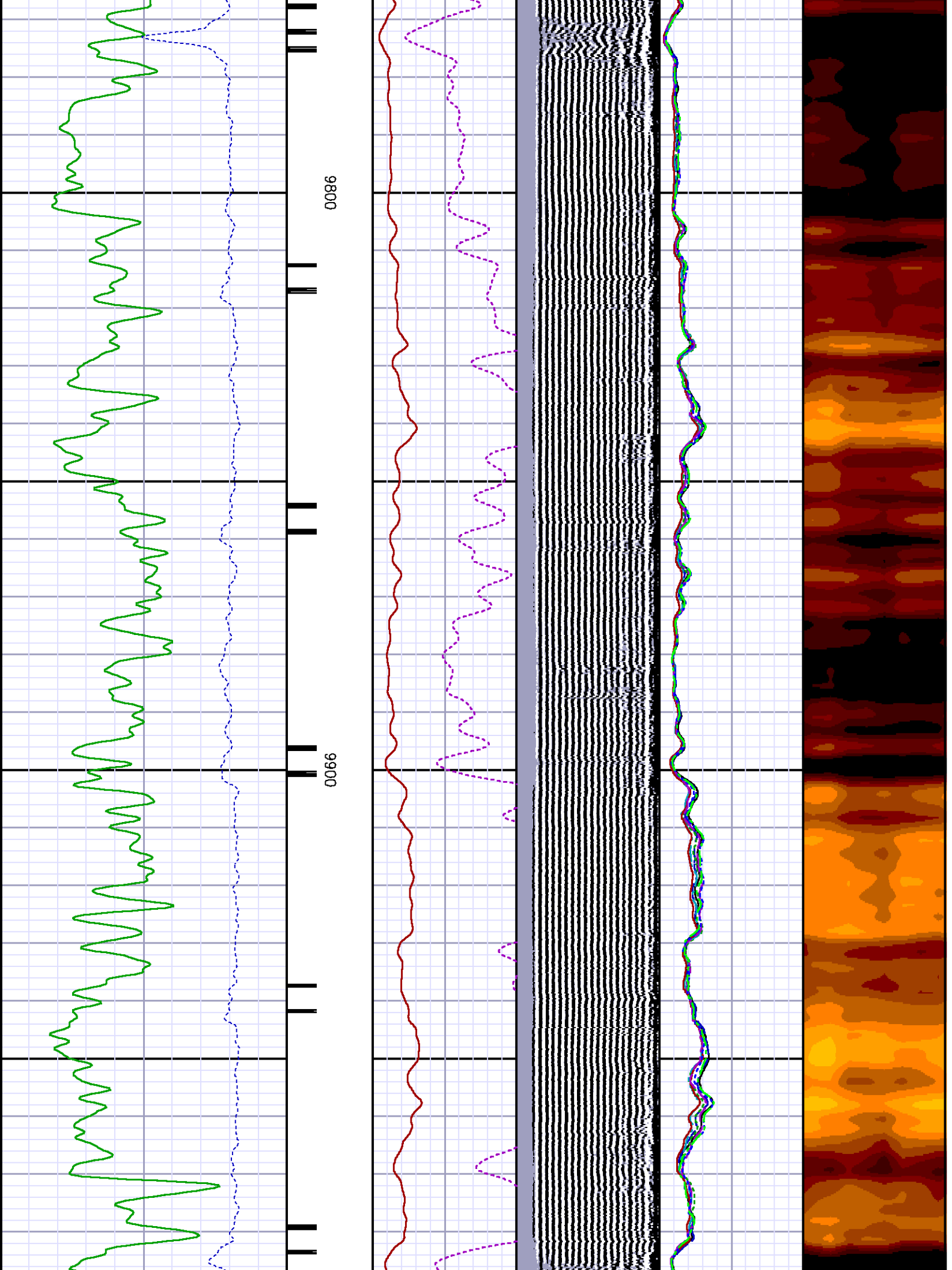


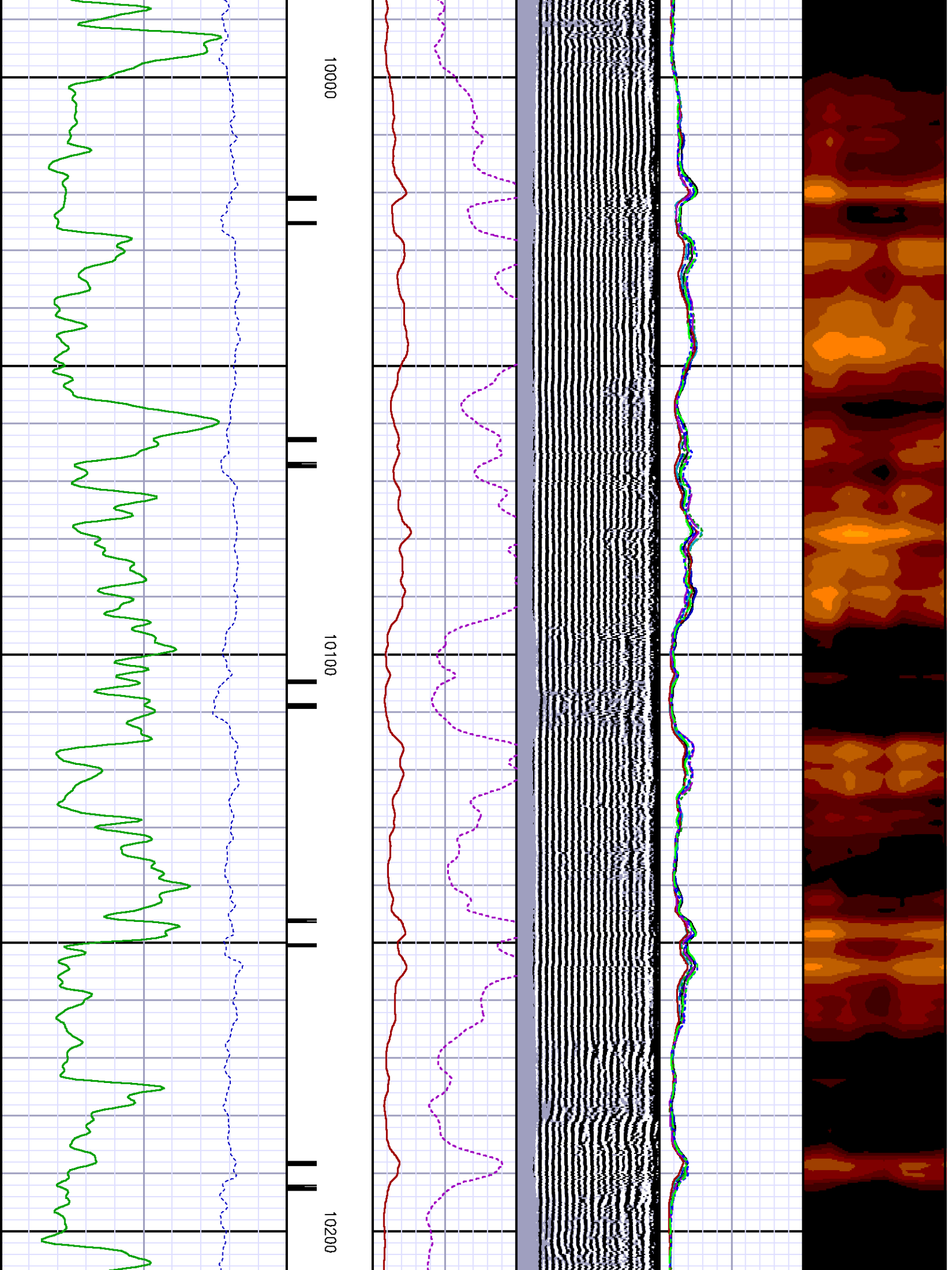


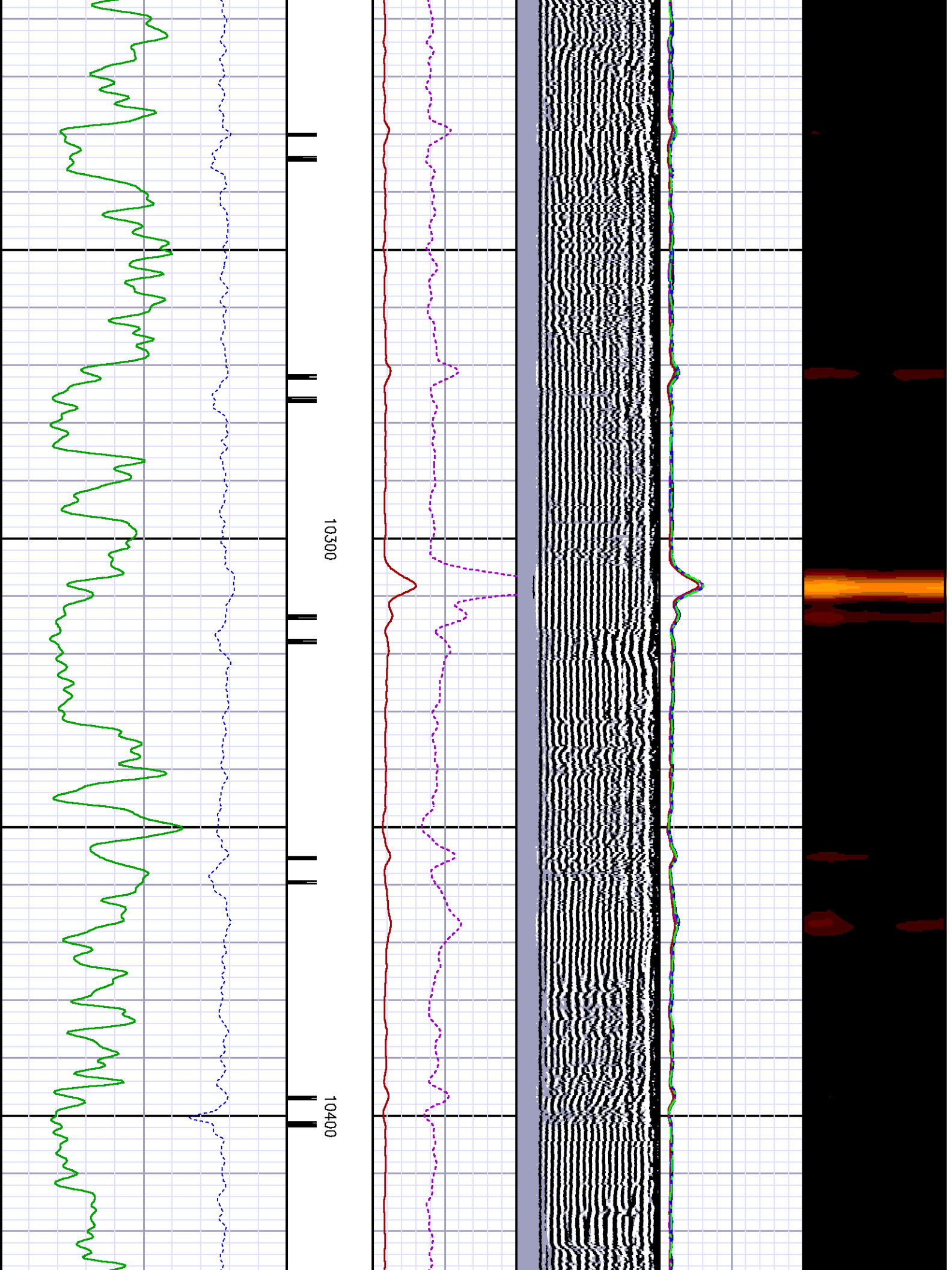


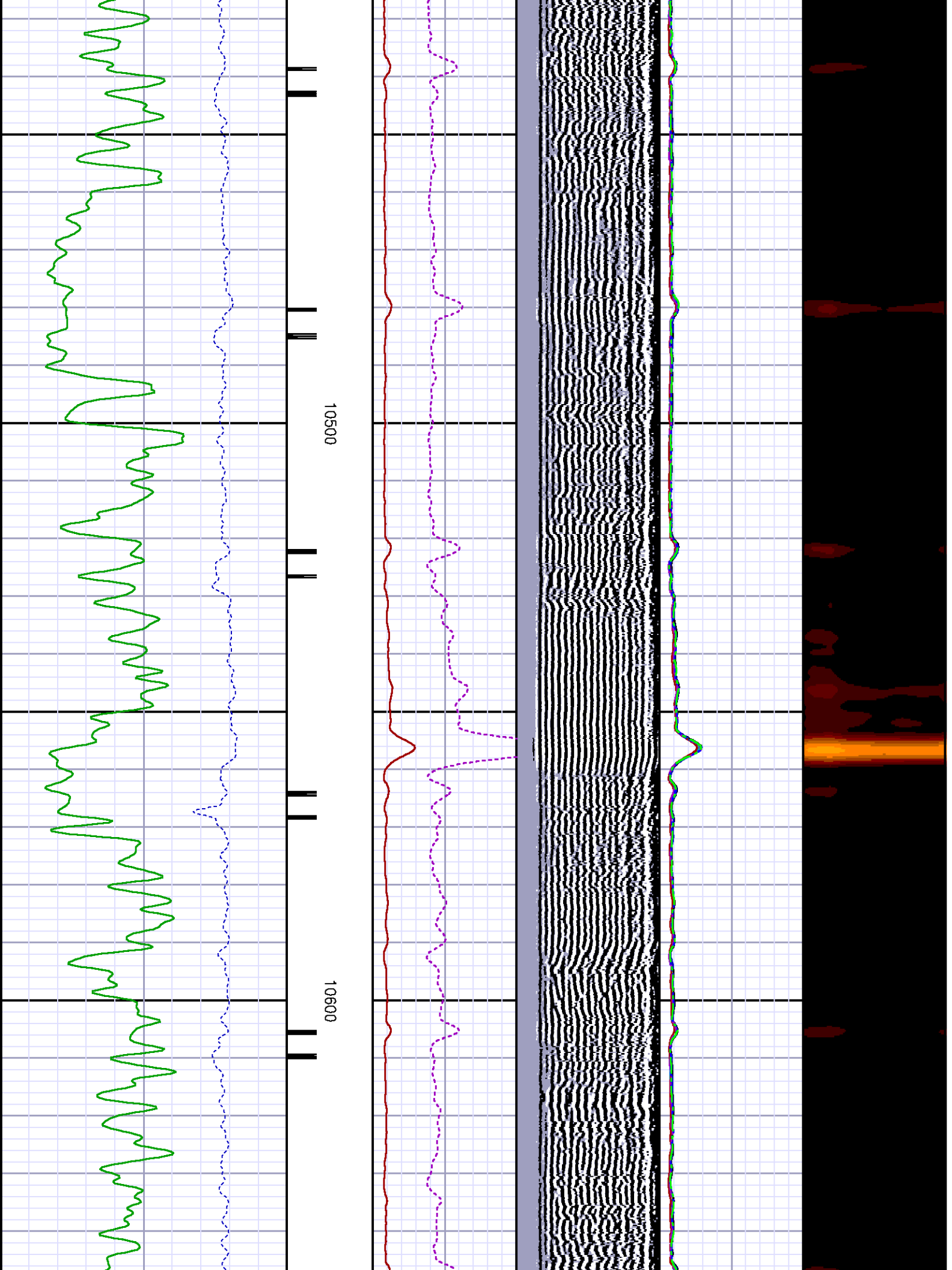


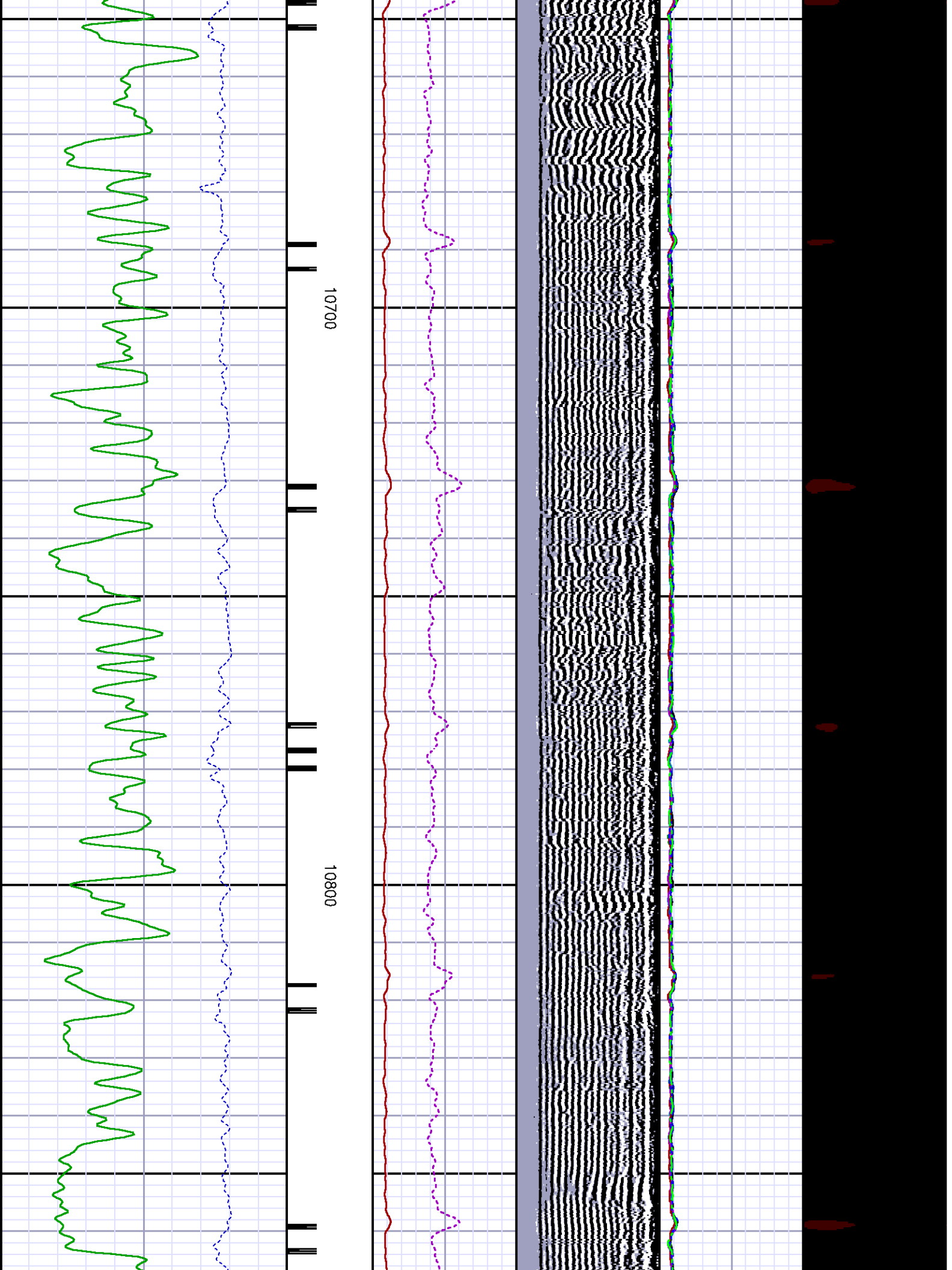


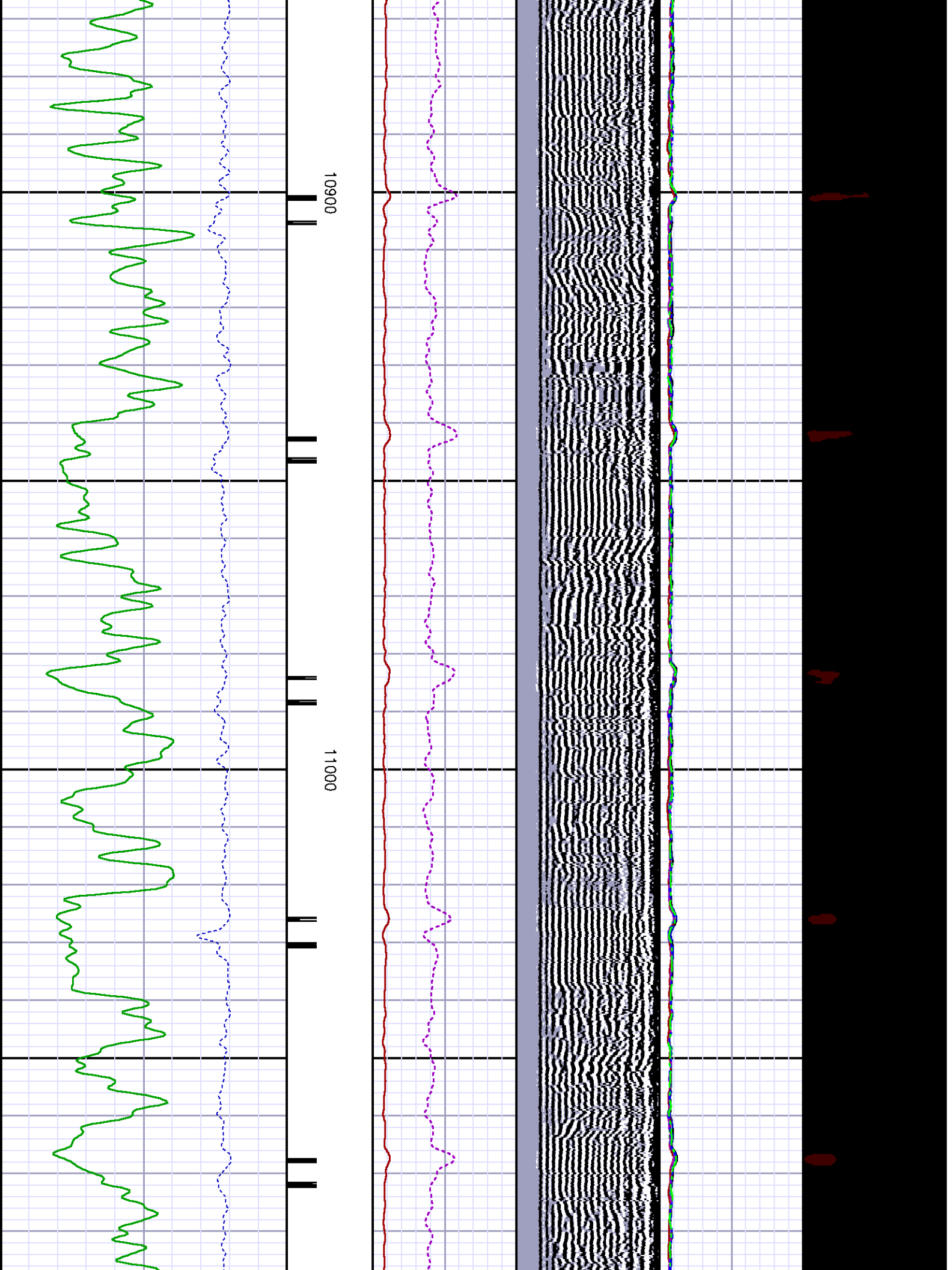


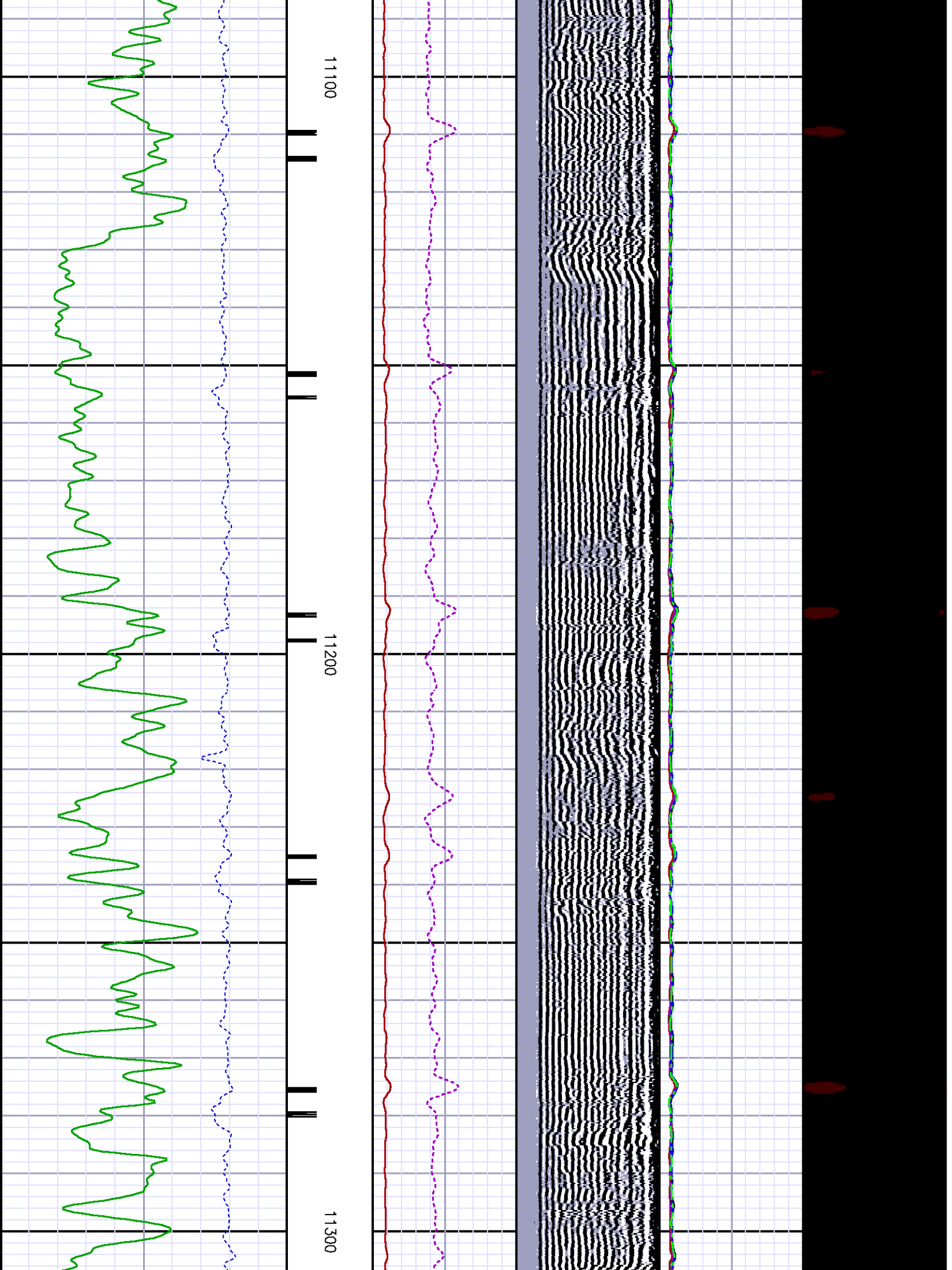


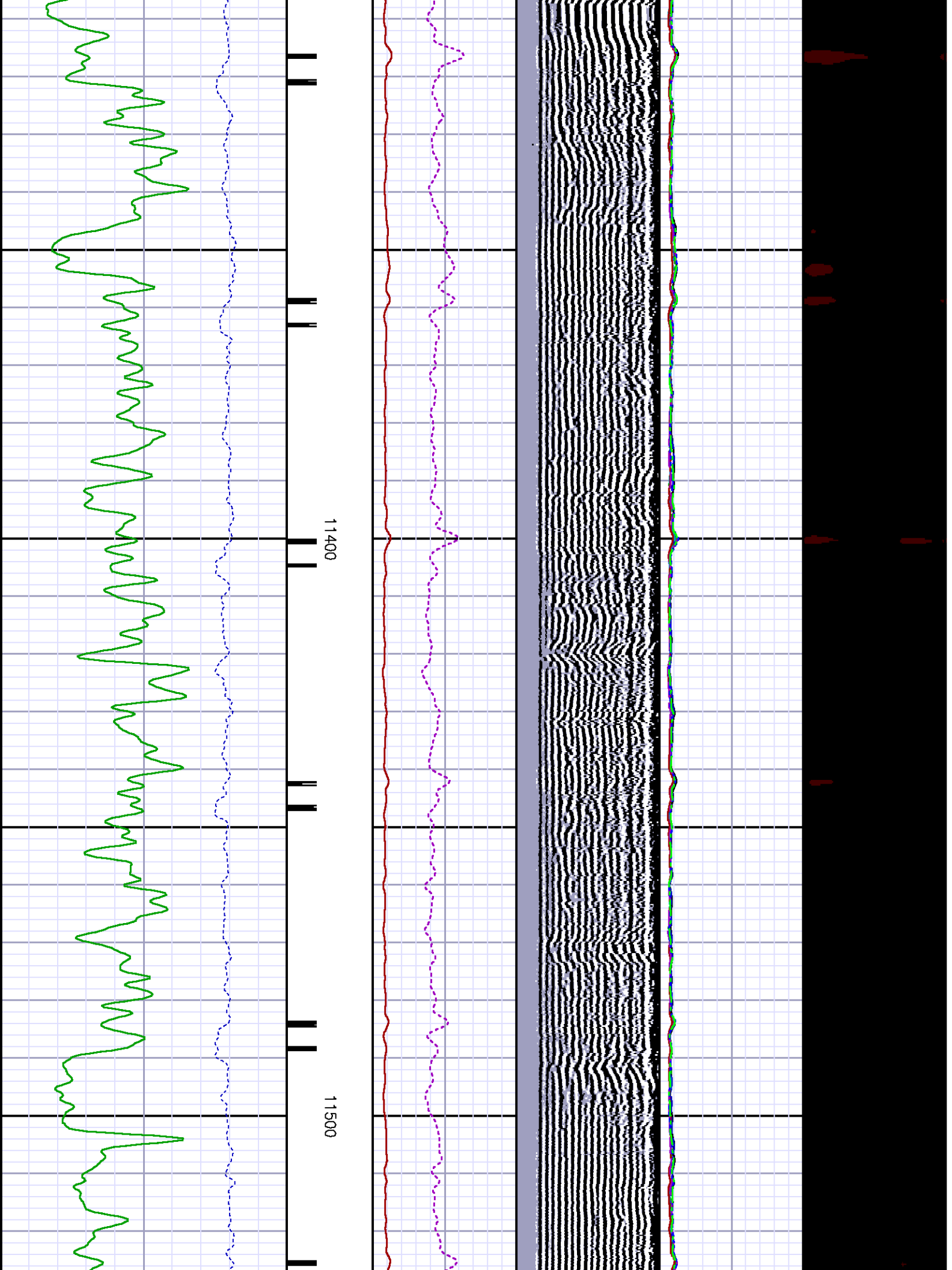


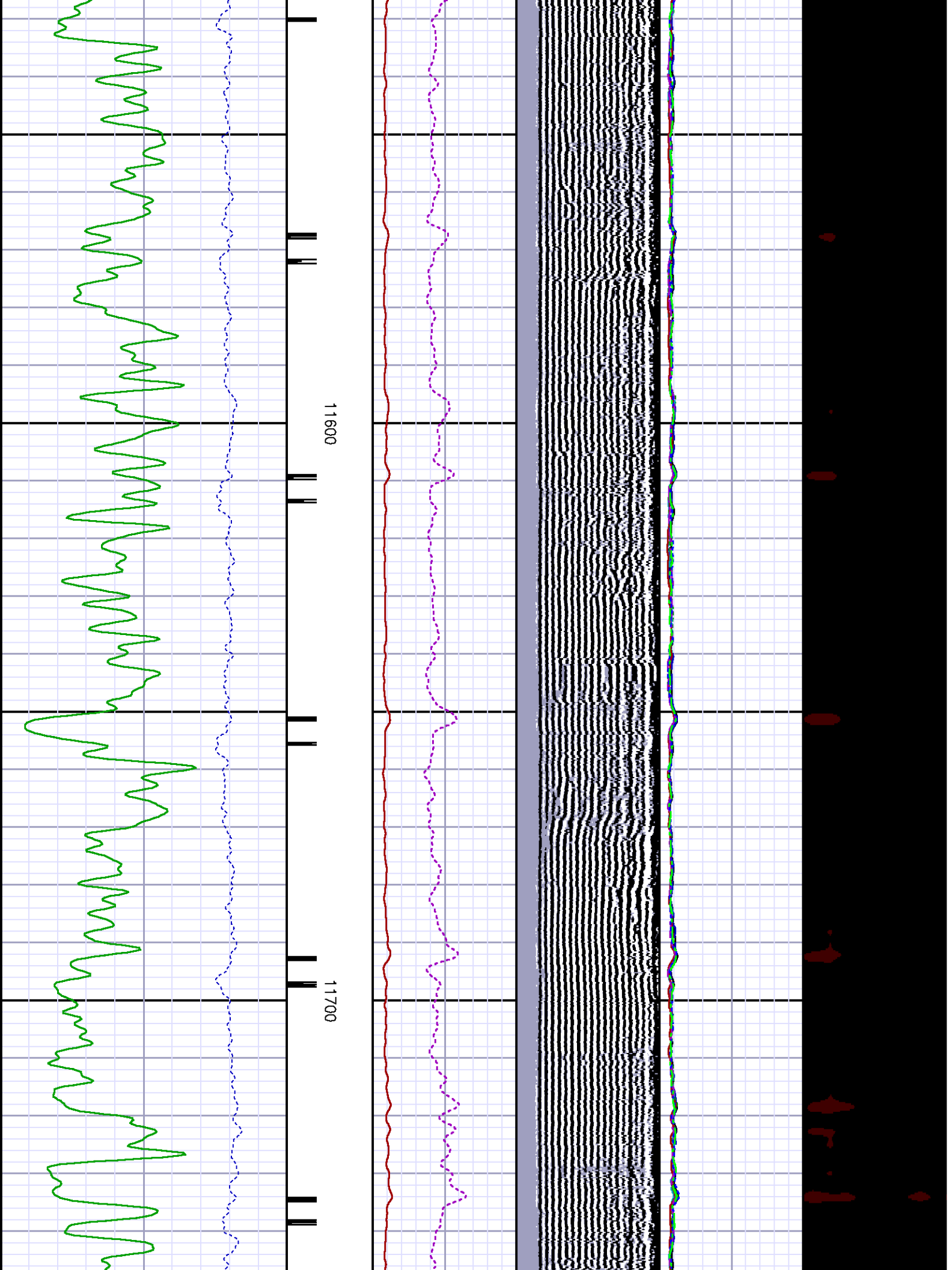


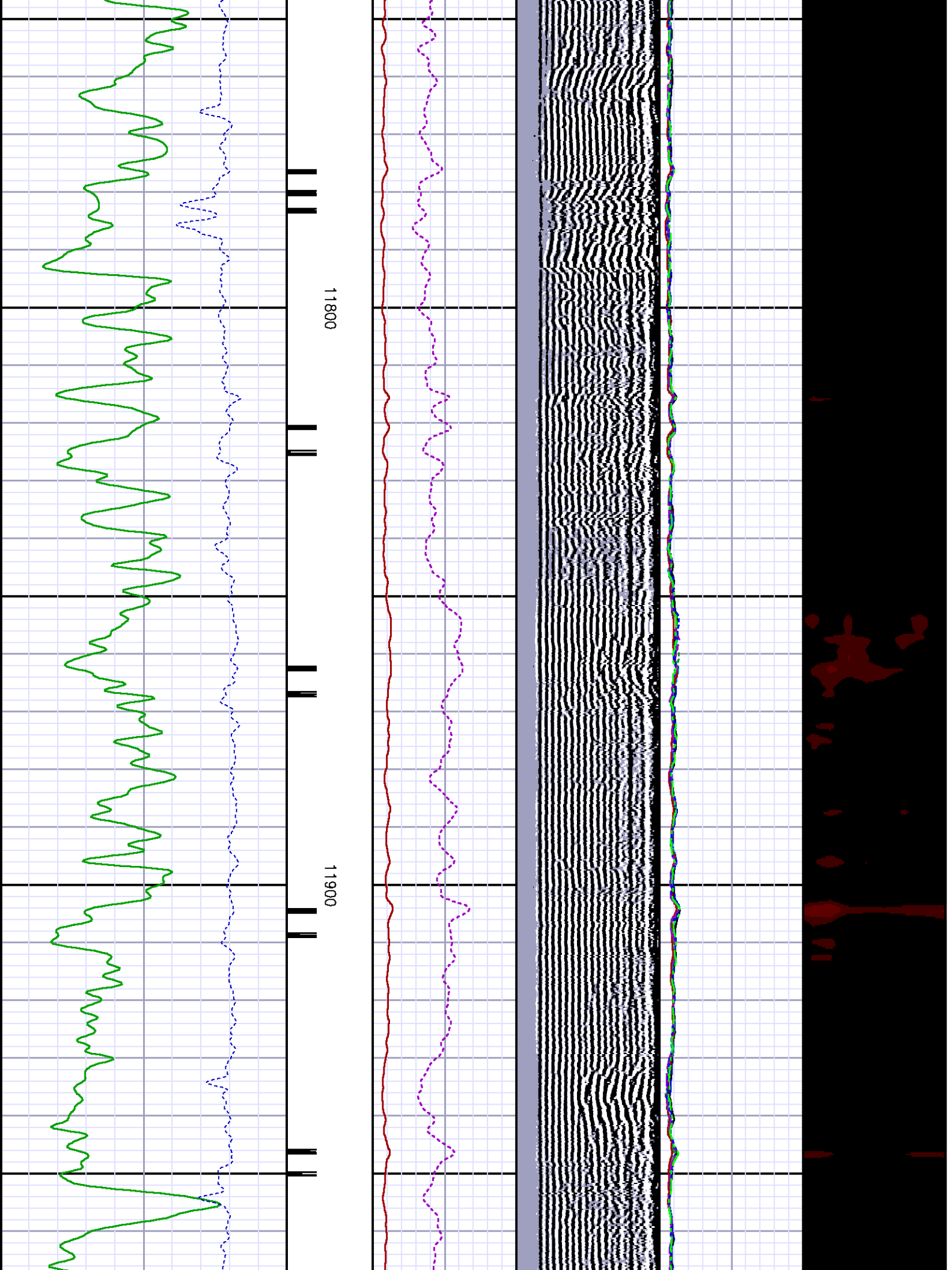


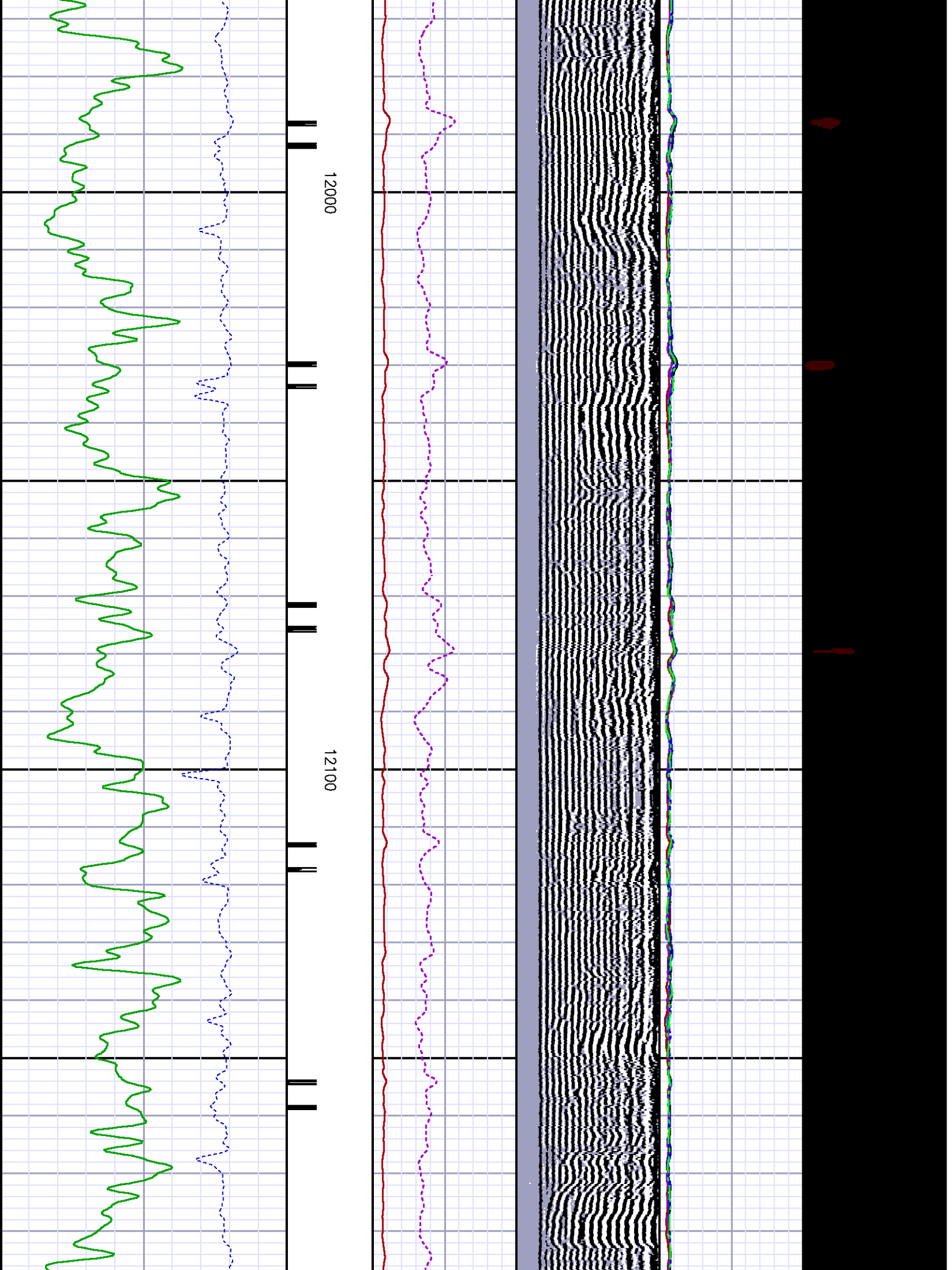


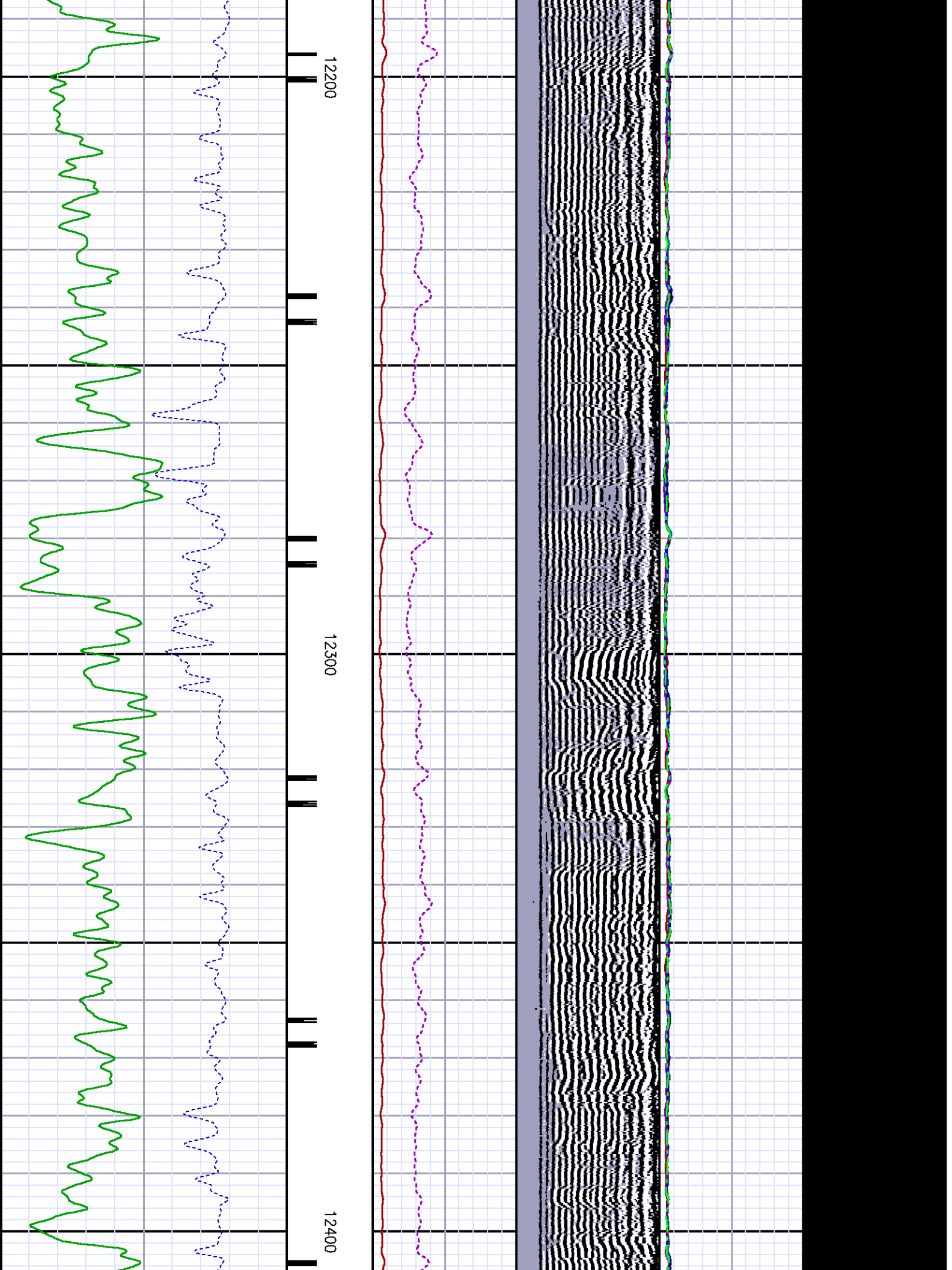


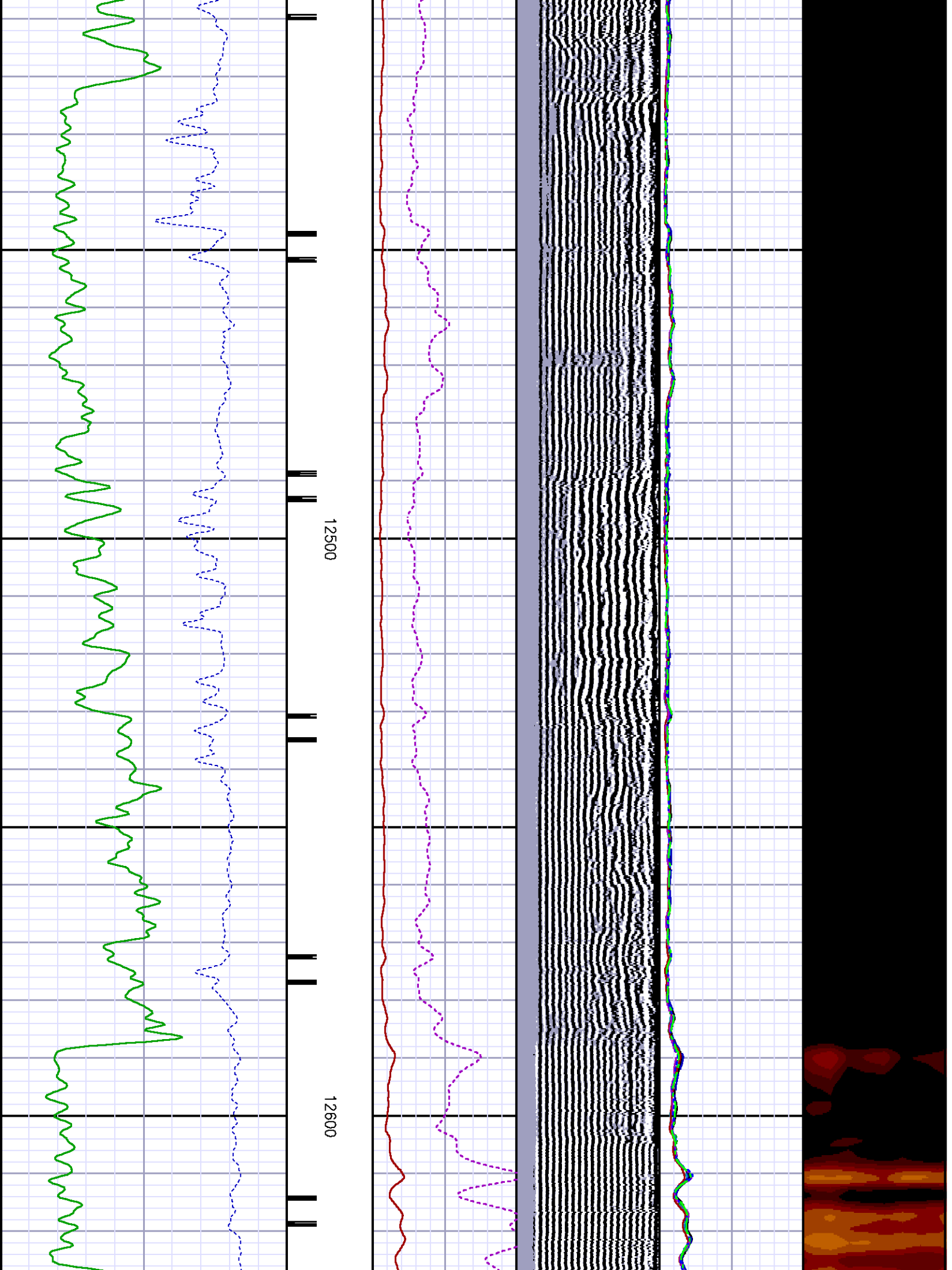


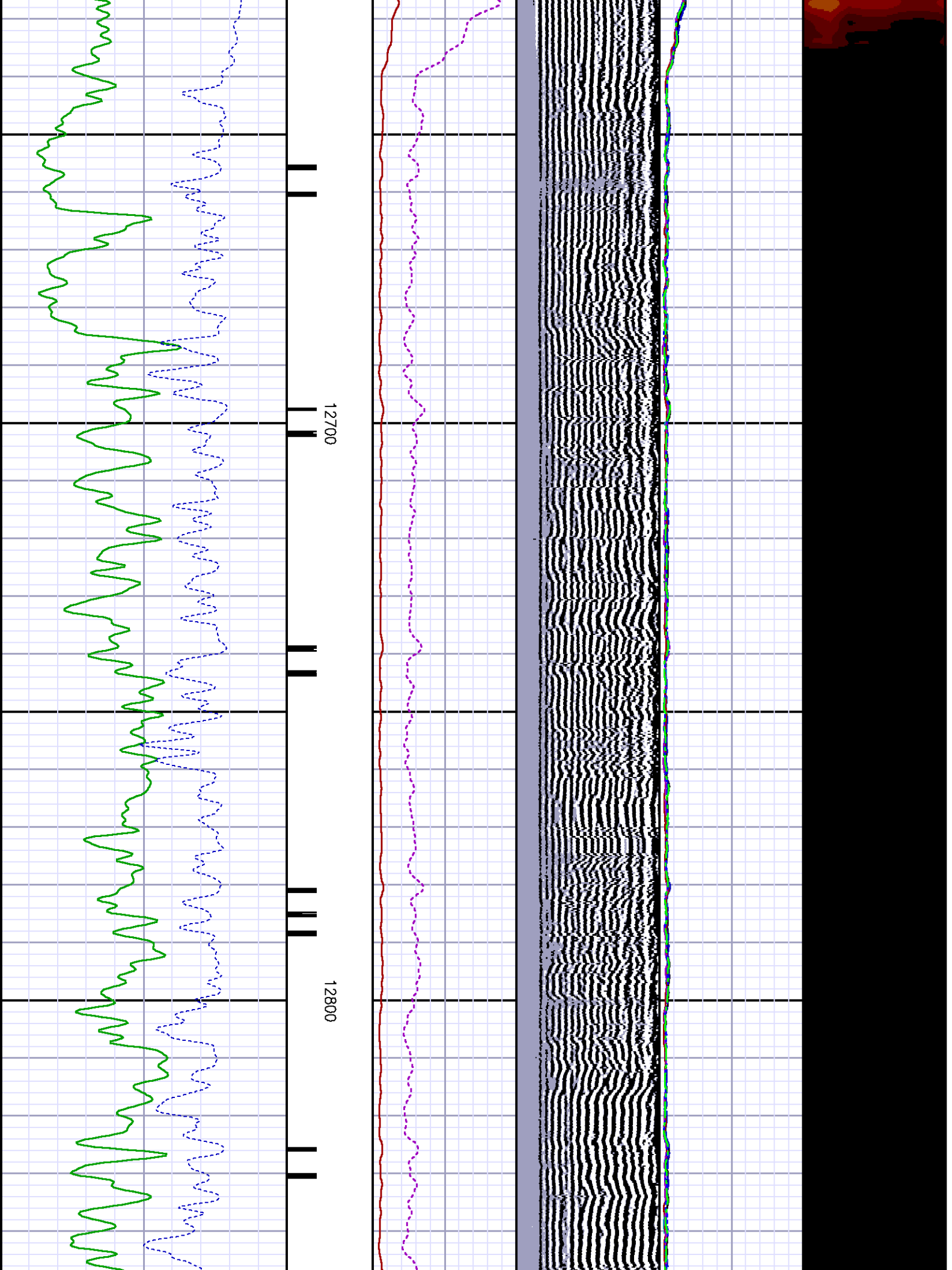


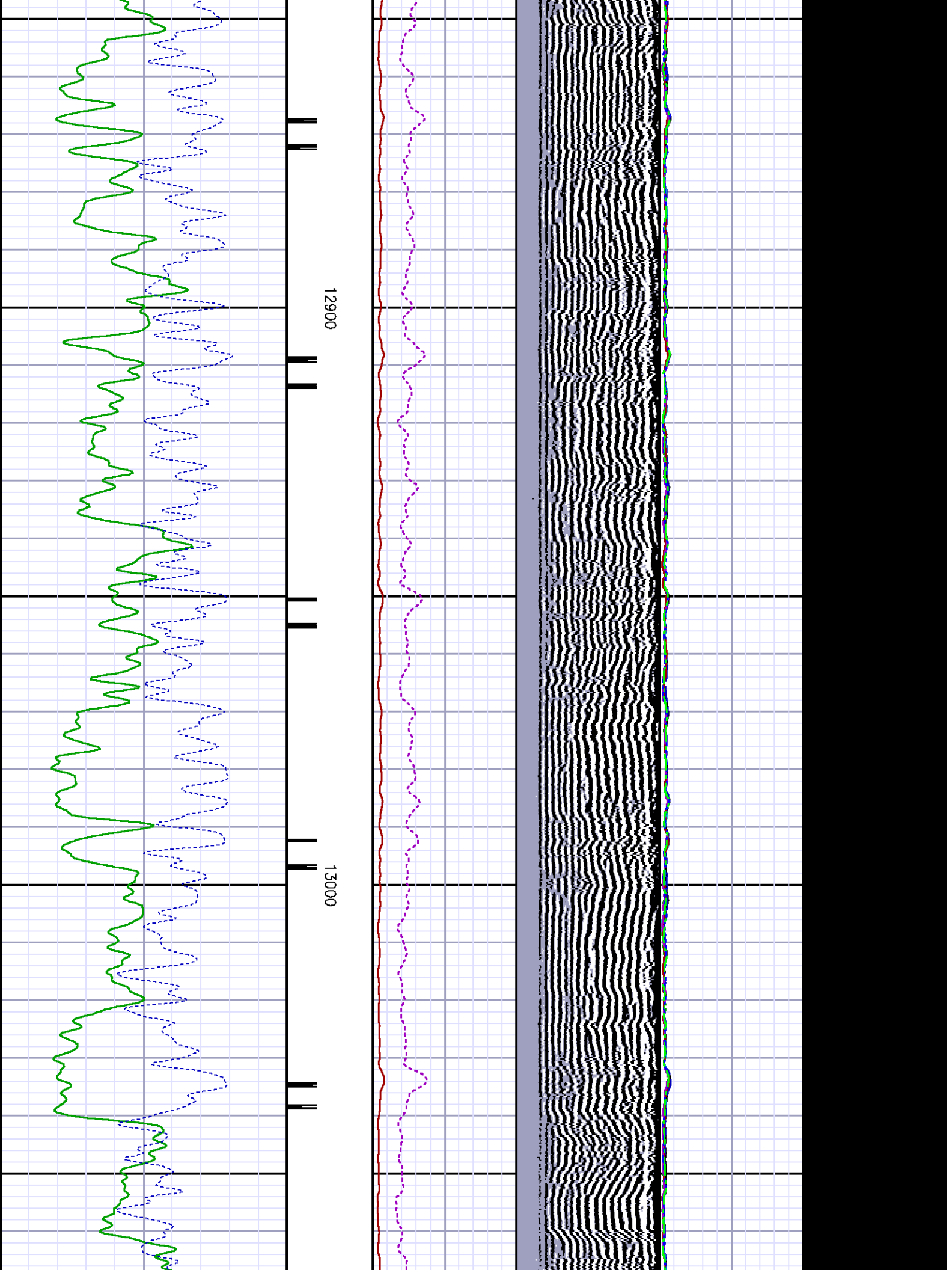


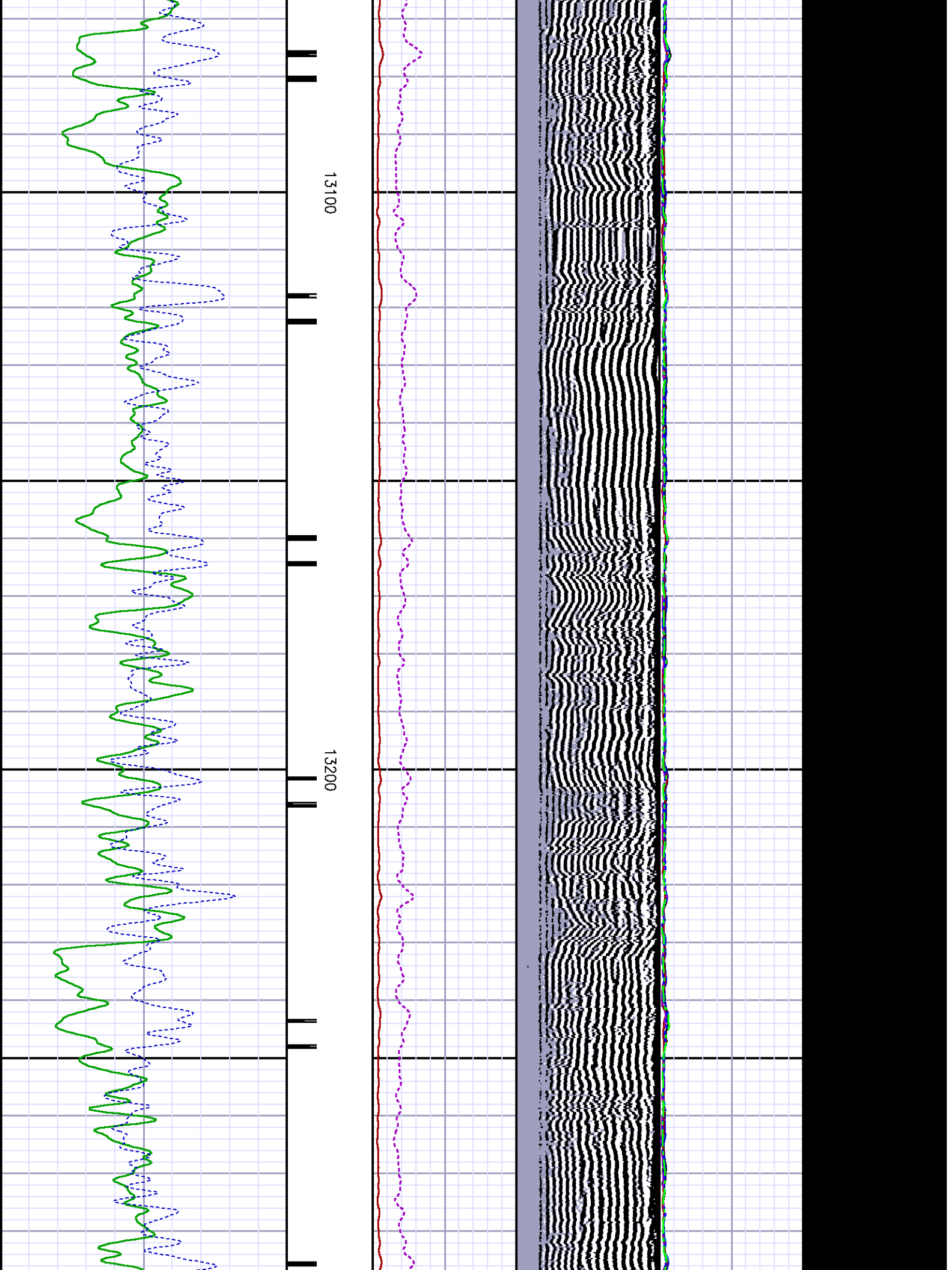


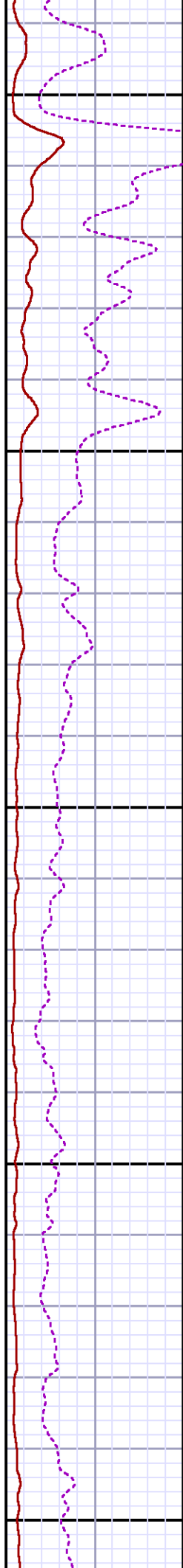
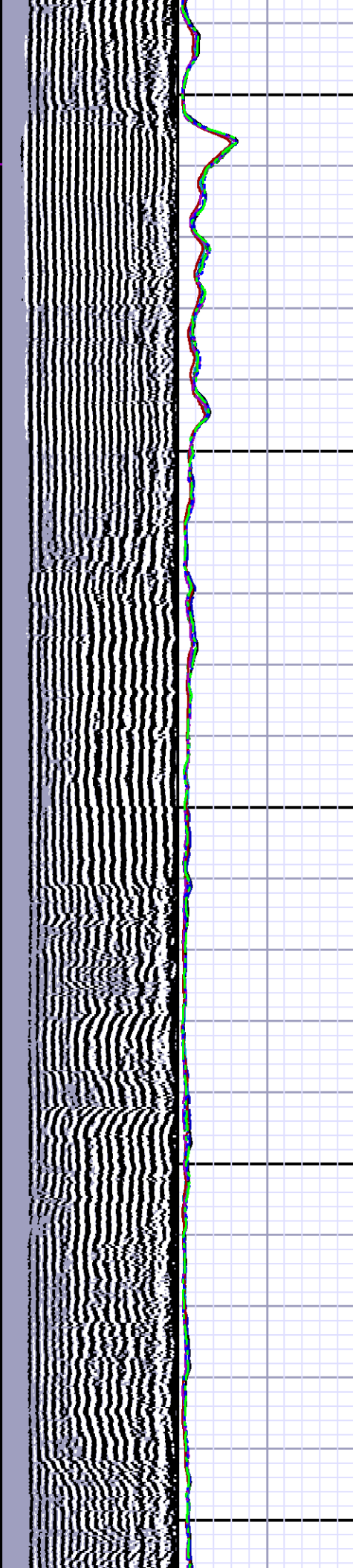
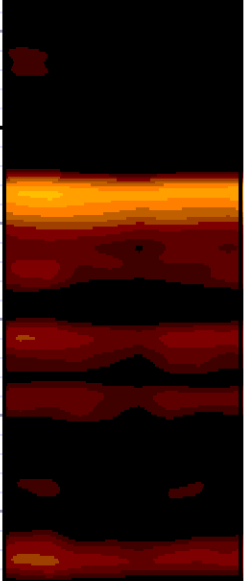








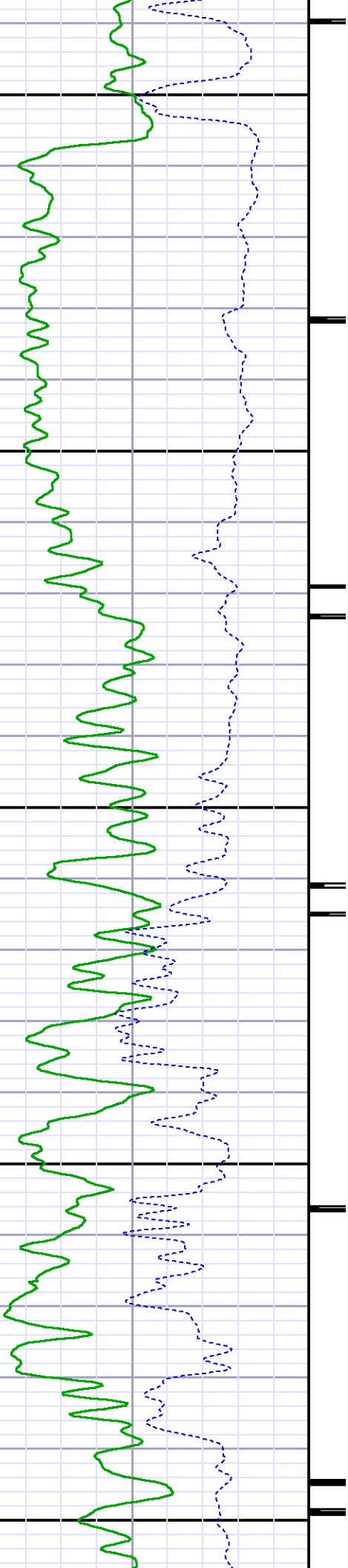


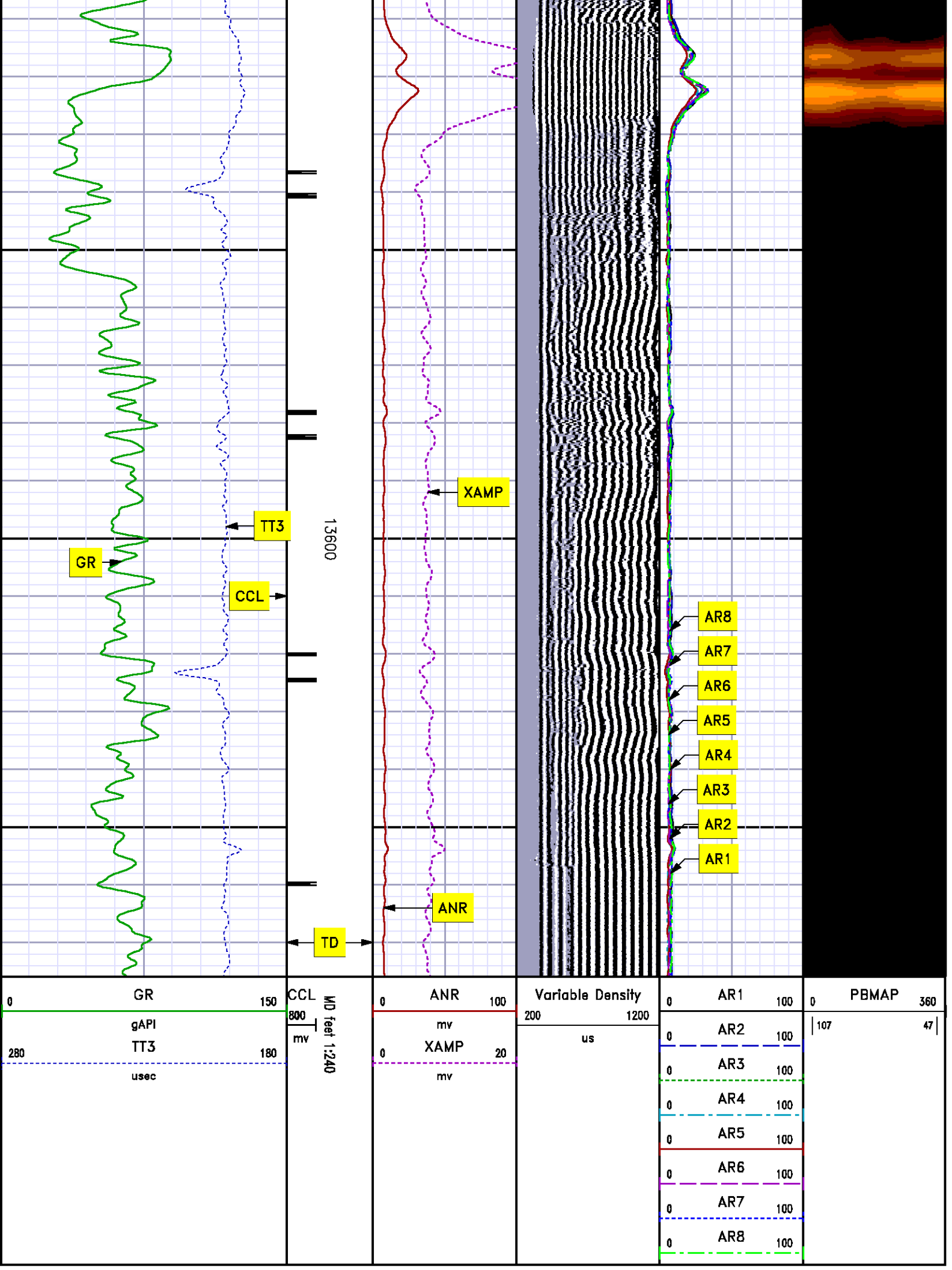


13500

13400

13500





GR

TT3

CCL

XAMP

ANR

TD

AR8

AR7

AR6

AR5

AR4

AR3

AR2

AR1

0 GR 150
gAPI
TT3 180
280
u sec

CCL MD feet 1:240
800
mv

0 ANR 100
mv
0 XAMP 20
mv

Variable Density
200 1200
us

0 AR1 100
0 AR2 100
0 AR3 100
0 AR4 100
0 AR5 100
0 AR6 100
0 AR7 100
0 AR8 100

0 PBMAP 360
107 47

REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	301.836	usec	13238.624	13712.000
RAL	Amp Gate Start Near	190.553	usec	13238.624	13712.000
RAL	Amp Gate Start Radial	197.754	usec	13238.624	13712.000
RAL	Amp Gate Width Far	25.000	usec	13238.624	13712.000
RAL	Amp Gate Width Near	25.000	usec	13238.624	13712.000
RAL	Amp Gate Width Radial	25.000	usec	13238.624	13712.000
RAL	casing od	4.500	inches	13238.624	13712.000
RAL	casing wt	15.100	lbm/ft	13238.624	13712.000
RAL	FB Start Far	289.263	usec	13238.624	13712.000
RAL	FB Start Near	172.754	usec	13238.624	13712.000
RAL	FB Start Radial	172.754	usec	13238.624	13712.000
RAL	FB Thresh Far	10.000	mv	13238.624	13712.000
RAL	FB Thresh Near	4.000	mv	13238.624	13712.000
RAL	FB Thresh Radial	4.000	mv	13238.624	13712.000
RAL	Fluid Travel Time	200.000	usec/ft	13238.624	13712.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	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	-11.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL PRODUCTION COMPANY

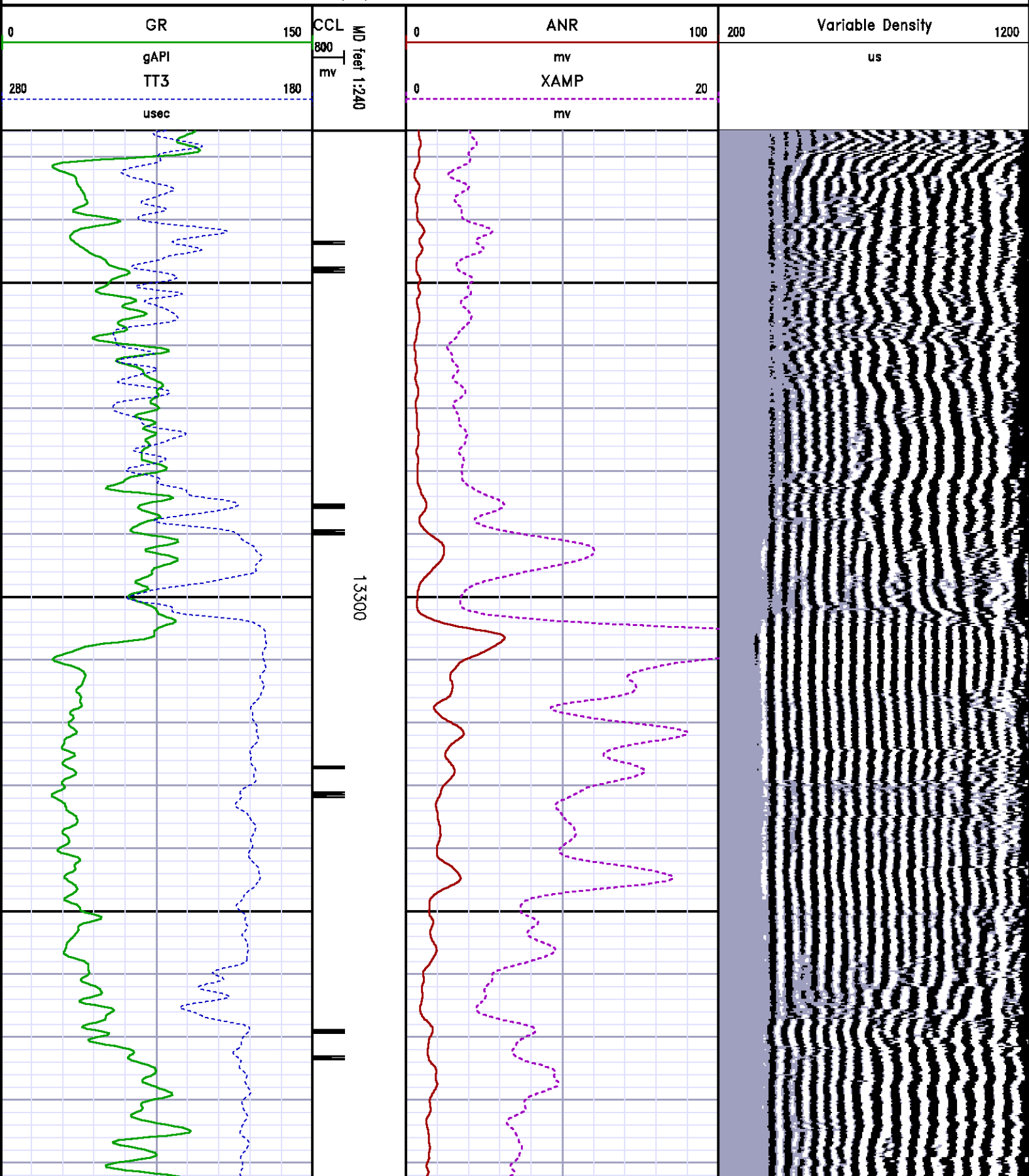
Well : PCU 296-6 A1

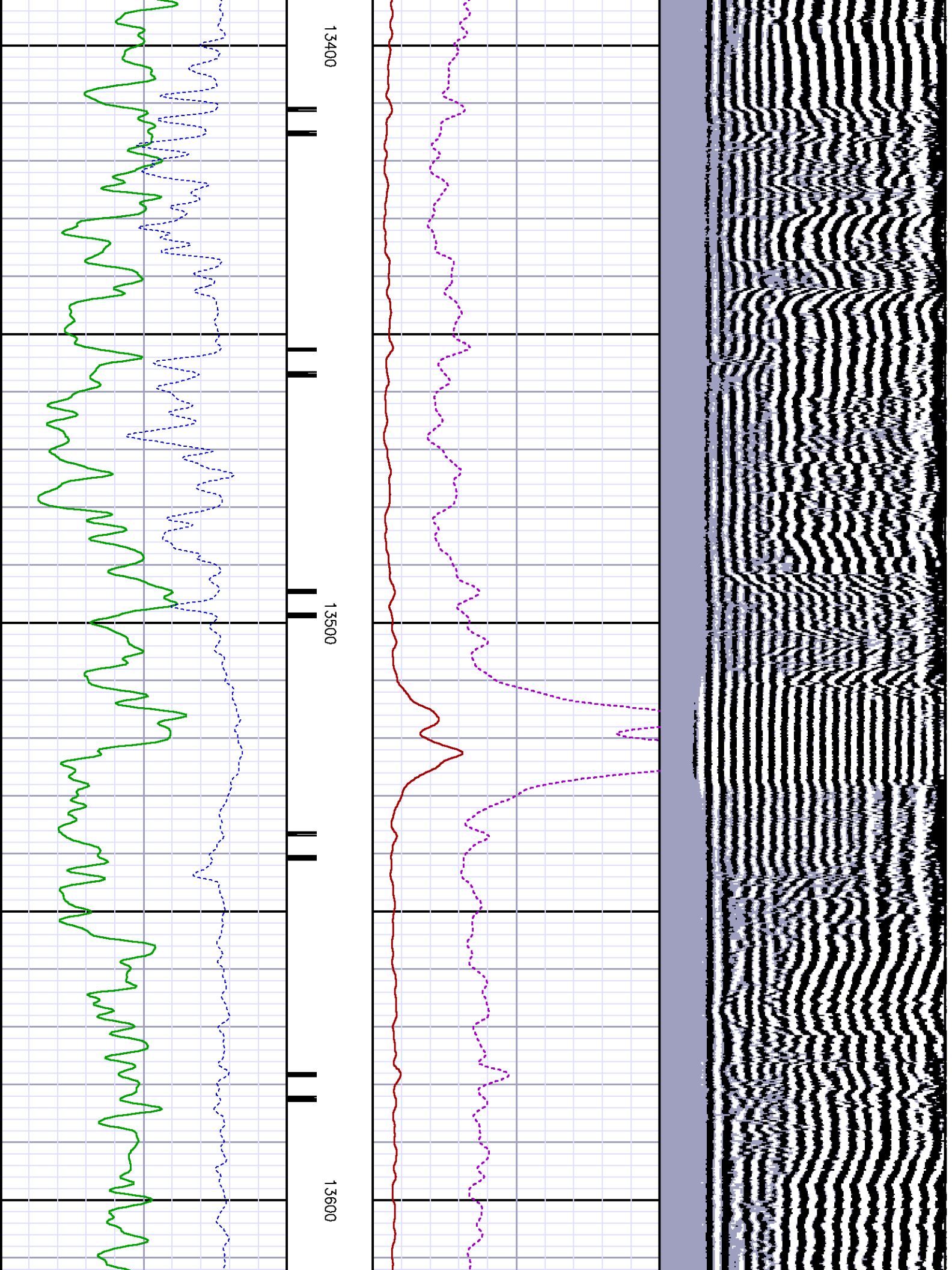
File Name : d:\welldata\rad1\repeatrdrr.xtf

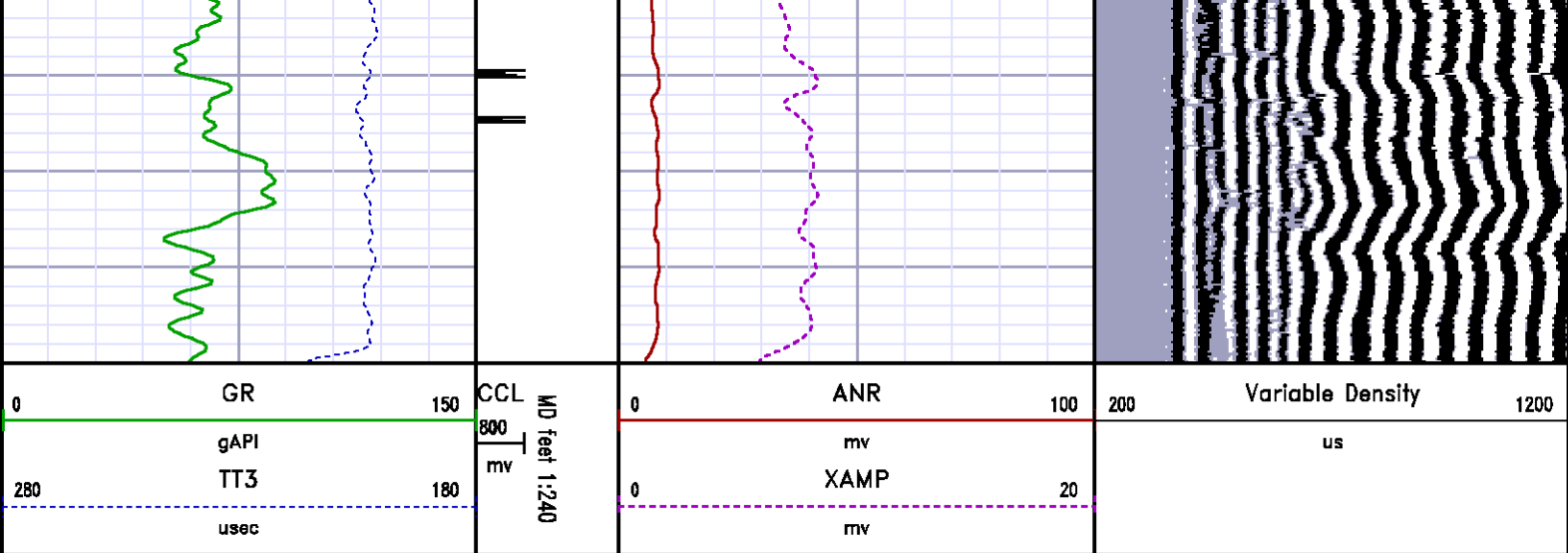
Mode : PlotMgr 5.4.504

Interval : 13225.75 - 13650.00 feet UP

Created : 1/23/2011 5:49:21 AM







CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\456J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Jan 07 13:24:11 2011

TOOL SERIES: 1426XA ASSET: 456 SEQ: J1

Calibrator # Background Calibrator On
[cps] [cps]

Multiplicative Background Calibrator On Differential
[api] [api] [api]

S2K DA856 78.76 297.87

0.844 66.49 251.49 185.00

Verification File: C:\case\calver\GR\456J1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Fri Jan 07 13:25:17 2011

TOOL SERIES: 1426XA ASSET: 456 SEQ: J1

Calibrator # Background Calibrator On
[cps] [cps]

Multiplicative Background Calibrator On Differential
[api] [api] [api]

S2K DA856 77.56 294.28

0.844 65.48 248.47 182.99

RALSHP

Shop Calibration: C:\case\calver\RALSHP\957J22_shp.cal

SHOP CALIBRATION SUMMARY

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	212	211	25	93	87	-0.192	100.00	0.23
3 Ft. Receiver	214	216	25	127	57	-0.015	100.00	0.22
5 Ft. Receiver	322	322	25	174	106	-0.071	150.00	0.24
Radial #1	214	216	25	132	53	-0.571	100.00	0.22
Radial #2	215	216	25	132	53	-0.276	100.00	0.22
Radial #3	213	216	25	132	53	-0.297	100.00	0.22
Radial #4	215	216	25	132	53	-0.761	100.00	0.22
Radial #5	214	216	25	132	53	-0.526	100.00	0.22
Radial #6	212	216	25	132	53	-0.828	100.00	0.21
Radial #7	211	216	25	132	53	-1.117	100.00	0.21
Radial #8	212	216	25	132	53	-0.897	100.00	0.21

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\957J22 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jan 22 19:06:37 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: J22

Tool Delay [usec]	-58.00	Casing OD In	4.50	Casing Wt lbm/ft	15.10	Casing ID In	3.83	
RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]		
CAL Pulse	93	87	-0.024	0.000	1.00	100.000		
3 Ft. Receiver	191	25	-4.037					
5 Ft. Receiver	302	25	-2.514					
Radial #1	198	25	-2.401					
Radial #2	198	25	-2.532					
Radial #3	198	25	-0.769					
Radial #4	198	25	-1.231					
Radial #5	198	25	-0.726					
Radial #6	198	25	-0.458					
Radial #7	198	25	-0.900					
Radial #8	198	25	-0.850					

TOOL DIAGRAM

OTA SHORT CABLE HEAD**PROBE 2 3/4 DUAL RECEIVER RADII**

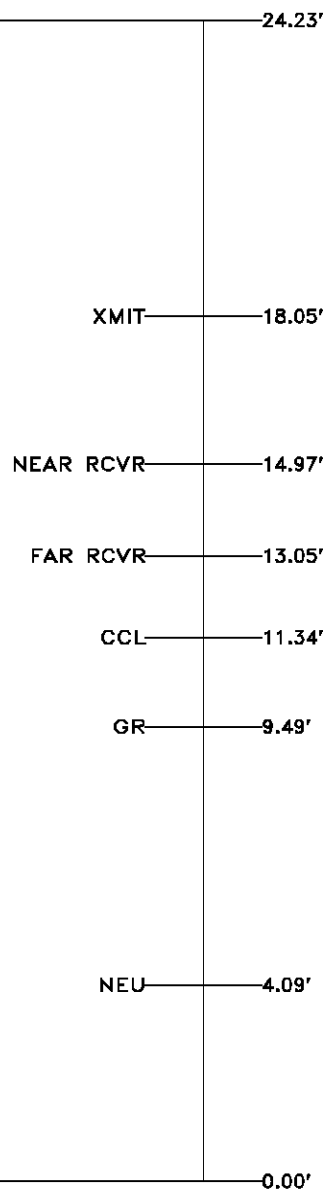
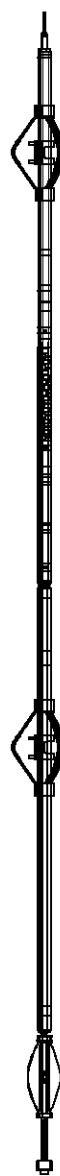
Series 1426XA
Mnemonic PROB
Diameter 2.75"
Length 11.17'
Measure Point 0.75' FAR RCVR
Measure Point 2.67' NEAR RCVR
Measure Point 5.75' XMIT
Temp Rating 350.00 °F
Press Rating 18000.00 PSI

Probe GR/CCL/NEU

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

CENTRALIZER

Series RALCENT
Mnemonic CENT
Diameter 3.12"
Weight 20.00 lb



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

**Baker Atlas****Company**

EXXONMOBIL PRODUCTION COMPANY

Well

PCU 296-6 A1

Field

PICEANCE CREEK

County

RIO BLANCO

State

COLORADO

File No:**API No:**

05103114750000

Location

SHL: 446' FSL & 1931' FWL

Elevations

KB 7393.2 ft

DF 7392.2 ft

GL 7566.3 ft

SEC 6

TWP 2S

RGE 96W