



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH046401	Company Well	EXXONMOBIL EXPLORATION COMPANY PCU 296-6B1	
API No: 05103115460000	Field County	PICEANCE CREEK UNIT RIO BLANCO State COLORADO	
Location SHL: 1241' FEL & 2359' FSL BHL: 447' FEL & 1930' FSL SEC 6 TWP 2S RGE 98W		Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	GL Elevation 7394 ft KB 26 ft Above P. D. KELLY BUSHING		Elevations KB 7420 ft DF 7419 ft GL 7394 ft

Date	29/NOV/11	
Run	ONE	
Service Order	574762	
Depth Driller	13901 ft	
Depth Logger	13855 ft	
Bottom Logged Interval	13845 ft	
Top Logged Interval	5970 ft	
Time Started	1100	
Time Finished	1600	
Operator Rig Time	5 HRS	
Type of Fluid in Hole	2% NACL	
Fluid Density	NA	
Salinity	NA	
Fluid Level	FULL	
Logged Cement Top	NA	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	17.99 deg	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	288 degF	
Reference Log	NONE	
Reference Log Date	NA	
Equipment No.	4271	GRAND JCT
Recorded By	FLOYD RENEAU	
Witnessed By	JIM JONES	

- 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
26 In	26 ft	144 ft
14.75 In	26 ft	4529 ft
9.875 In	26 ft	10067 ft
7.875 In	26 ft	14015 ft

Casing Record				
Size	Weight	Grade	From	To
16 In			26 ft	144 ft
10.75 In	45.5 lbm/ft	J55	26 ft	4523 ft
7 In	26 lbm/ft	P-110	26 ft	9967 ft
4.5 In	15.1 lbm/ft	P-110	26 ft	13998 ft

Remarks
THIS IS THE FRIST LOG FOR THIS WELL.
WELL LOGGED WITH ZERO PSI AT WELLHEAD.
SHORT JOINT ARE MARKED ON LOG.
BHT = 288°F
MAX DEV = 17.99°

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10154957	CENT
1	1	GR/CCL	2459XA	10417457	CENT

MAIN SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	5970.000	13879.000
RAL	Amp Gate Start Near	195.000	usec	5970.000	13879.000
RAL	Amp Gate Start Radial	195.000	usec	5970.000	13879.000
RAL	Amp Gate Width Far	25.000	usec	5970.000	13879.000
RAL	Amp Gate Width Near	25.000	usec	5970.000	13879.000
RAL	Amp Gate Width Radial	25.000	usec	5970.000	13879.000
RAL	casing od	4.500	inches	5970.000	13879.000
RAL	casing wt	15.100	lbm/ft	5970.000	13879.000
RAL	FB Start Far	289.263	usec	5970.000	13879.000
RAL	FB Start Near	172.754	usec	5970.000	13879.000
RAL	FB Start Radial	172.754	usec	5970.000	13879.000
RAL	FB Thresh Far	15.000	mv	5970.000	13879.000
RAL	FB Thresh Near	10.000	mv	5970.000	13879.000
RAL	FB Thresh Radial	10.000	mv	5970.000	13879.000
RAL	Fluid Travel Time	200.000	usec/ft	5970.000	13879.843

DEPTH OFFSETS
(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-12.360	ACAL	ANR	AR1	AR2	AR3	AR4

1426XA -11.360
1426XA -7.250
1426XA -5.390
1426XA 0.000

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, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL EXPLORATION COMPANY

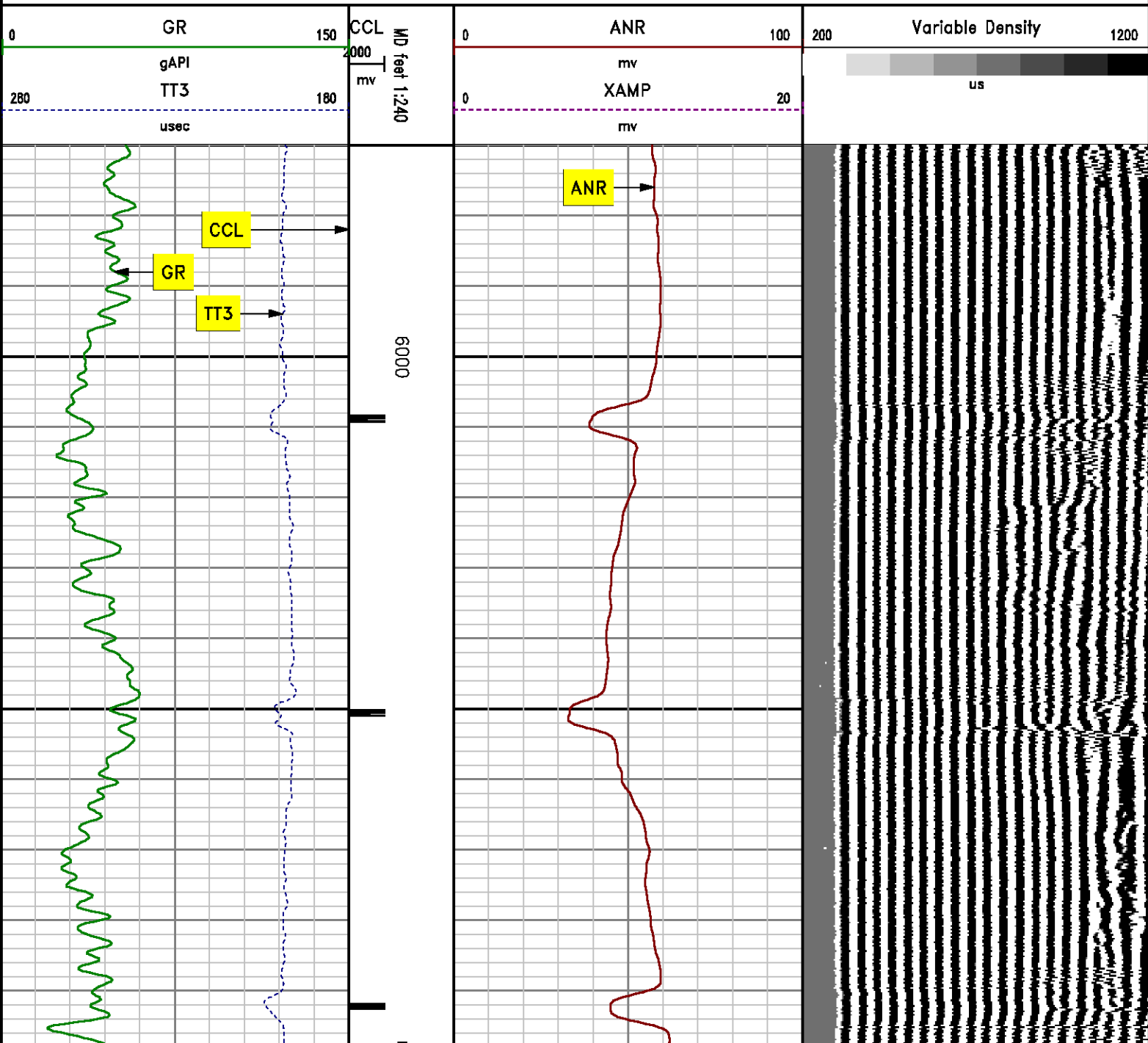
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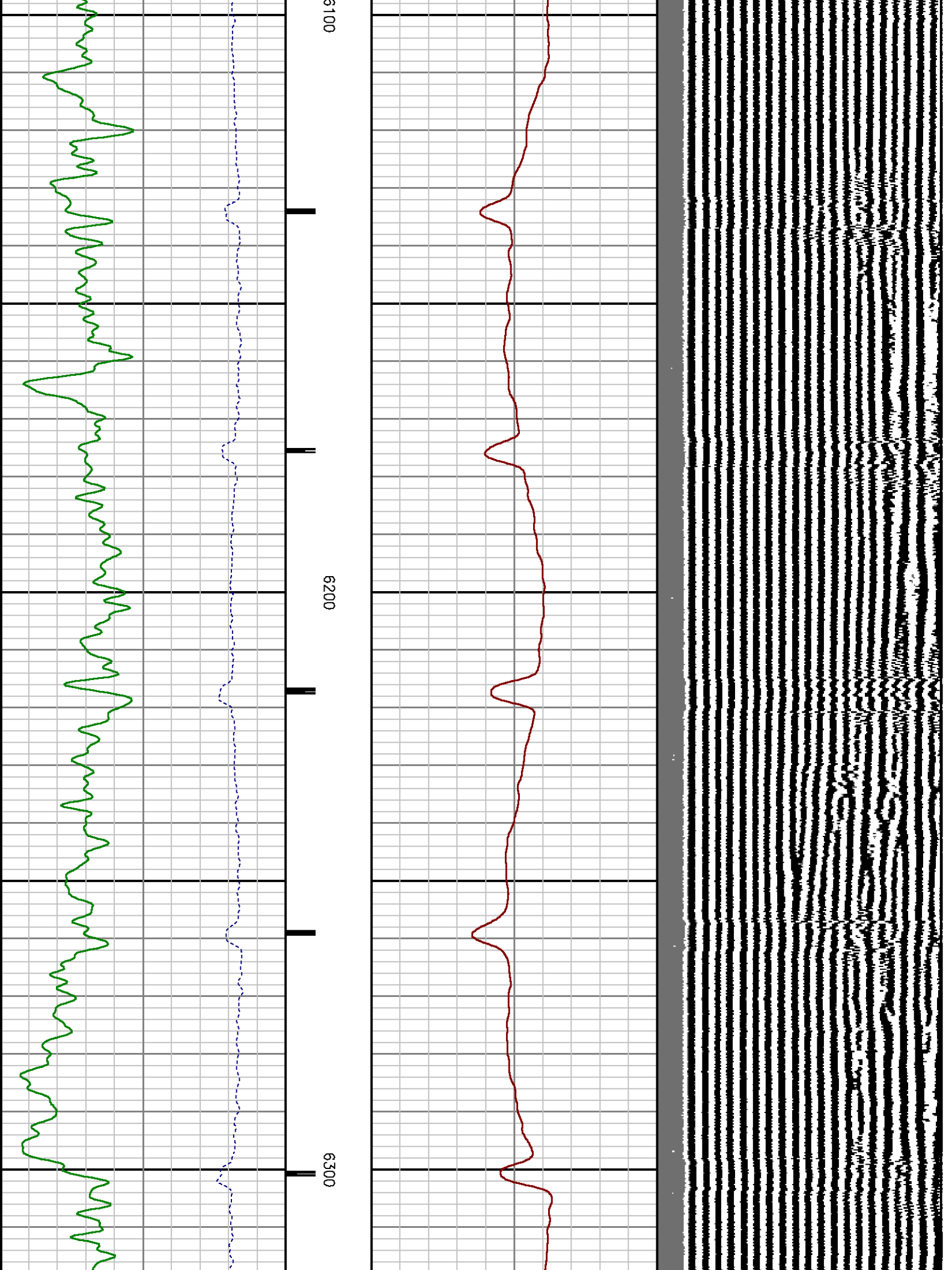
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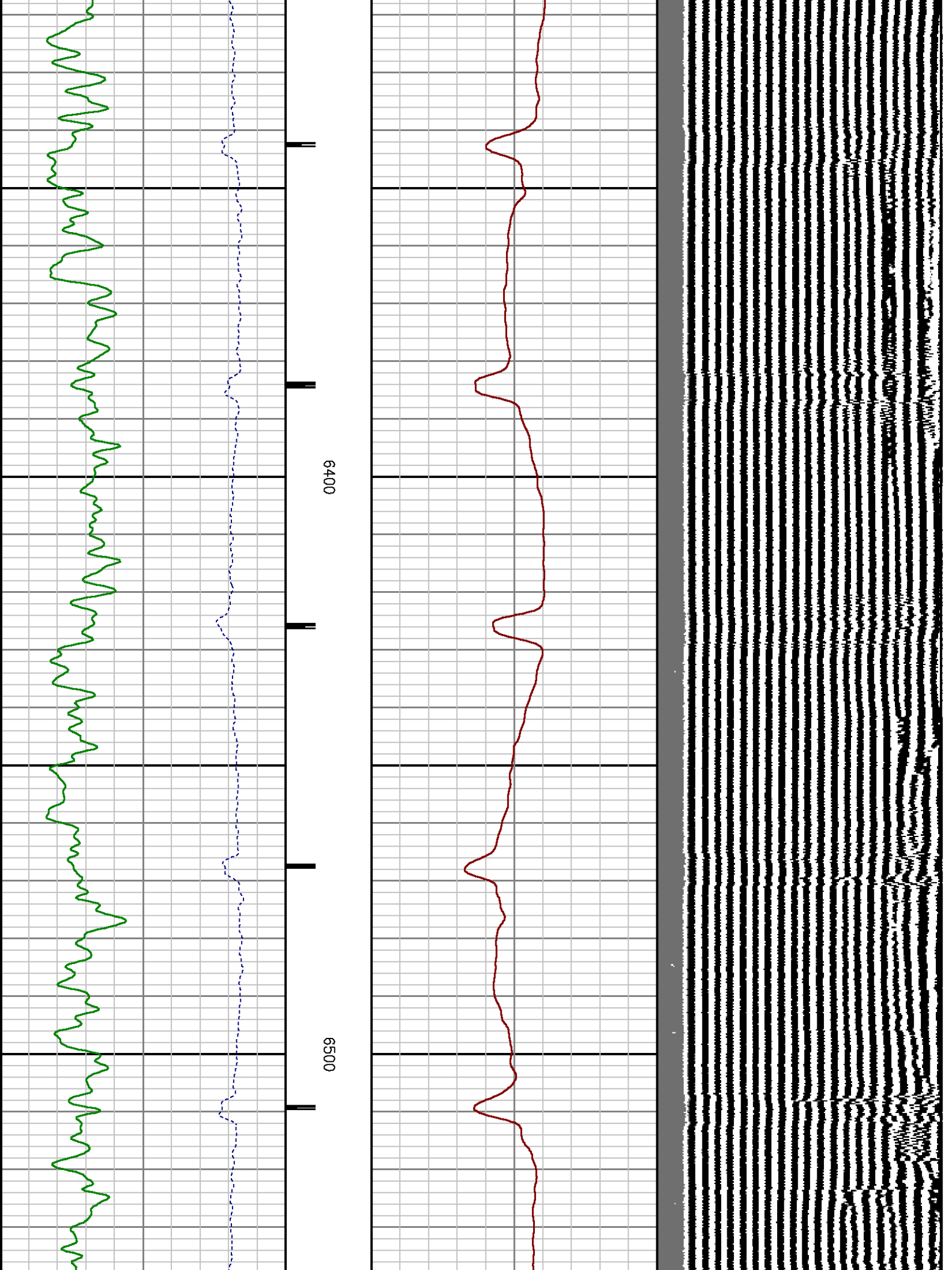
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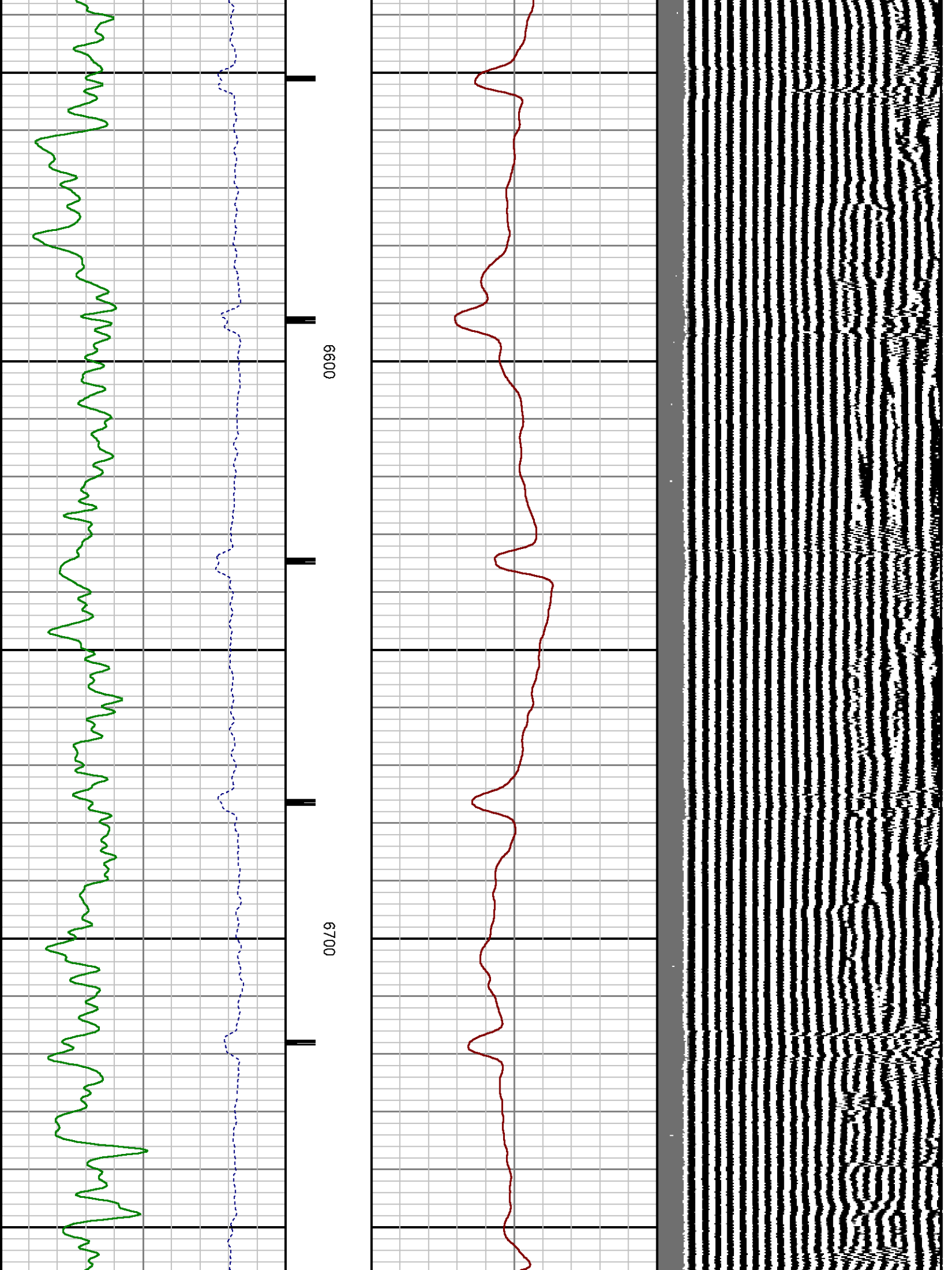
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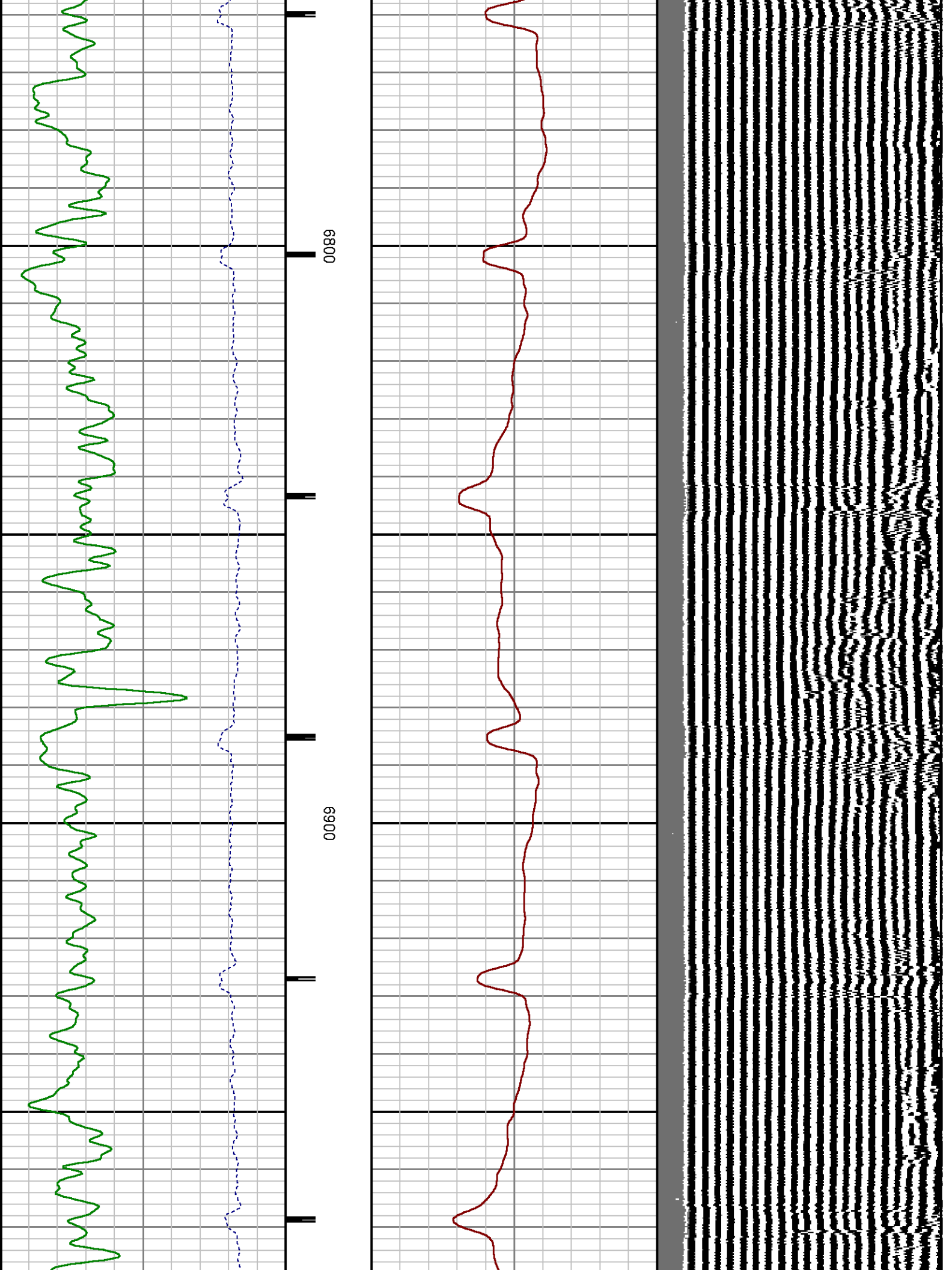
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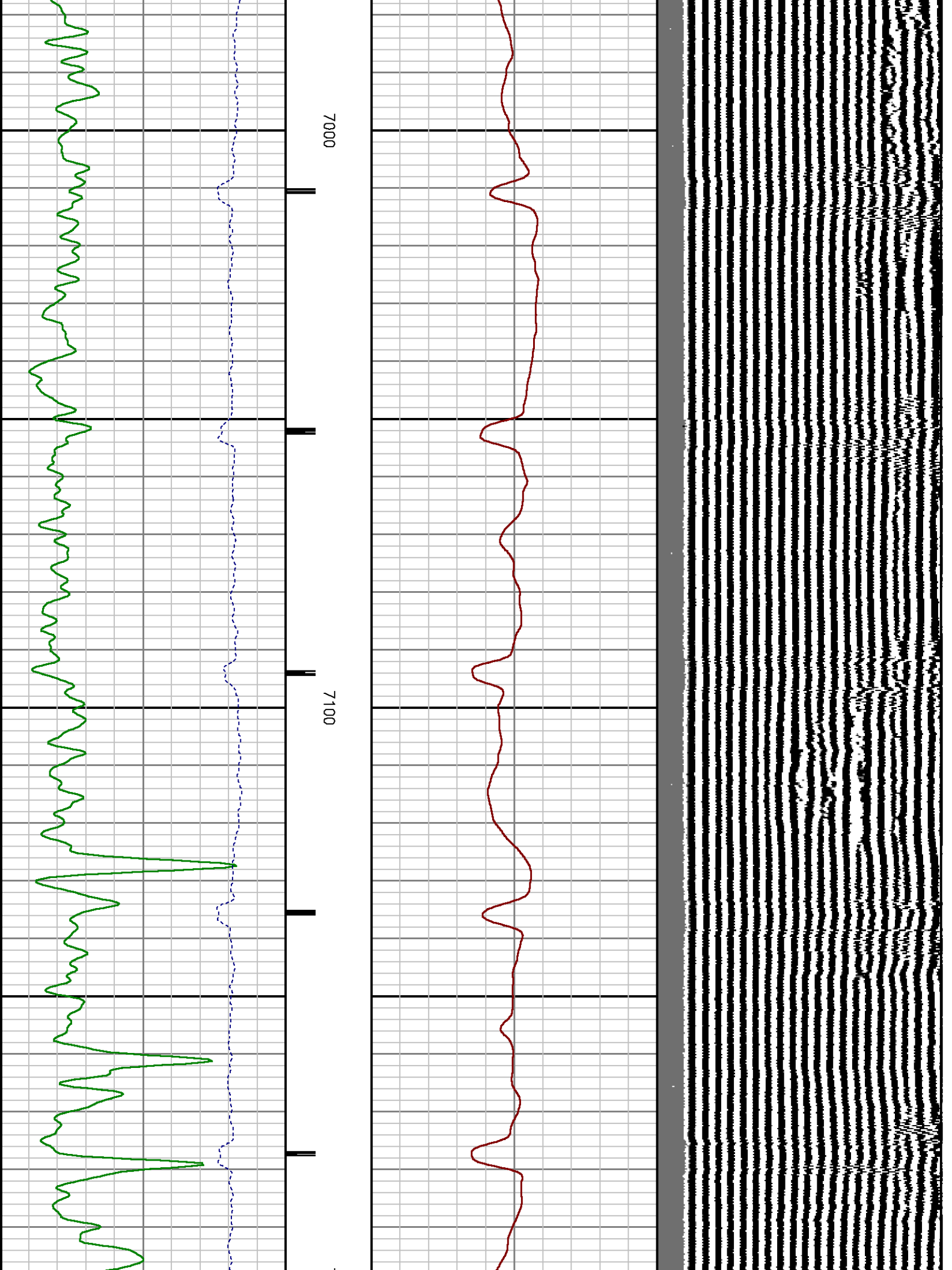


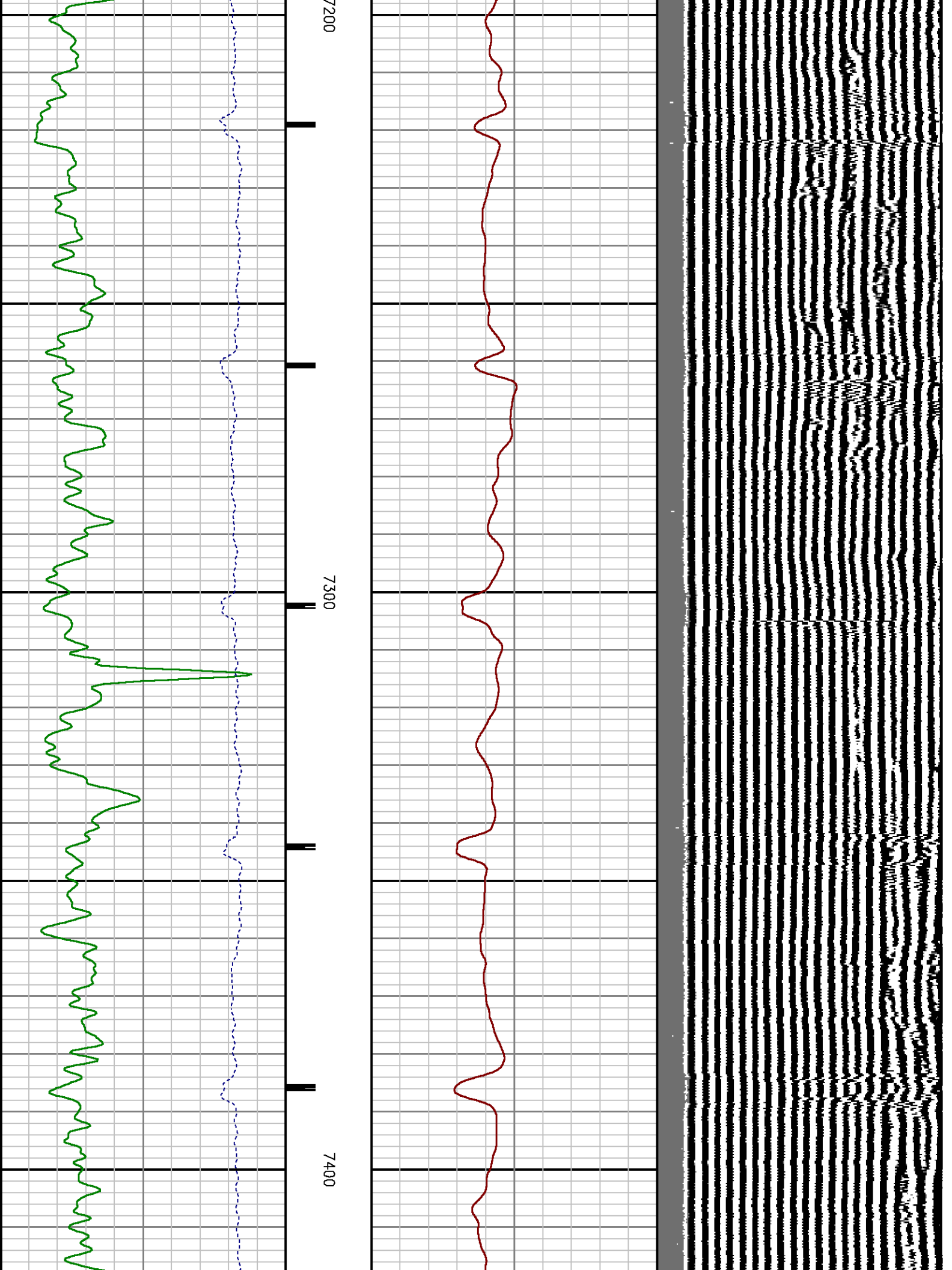


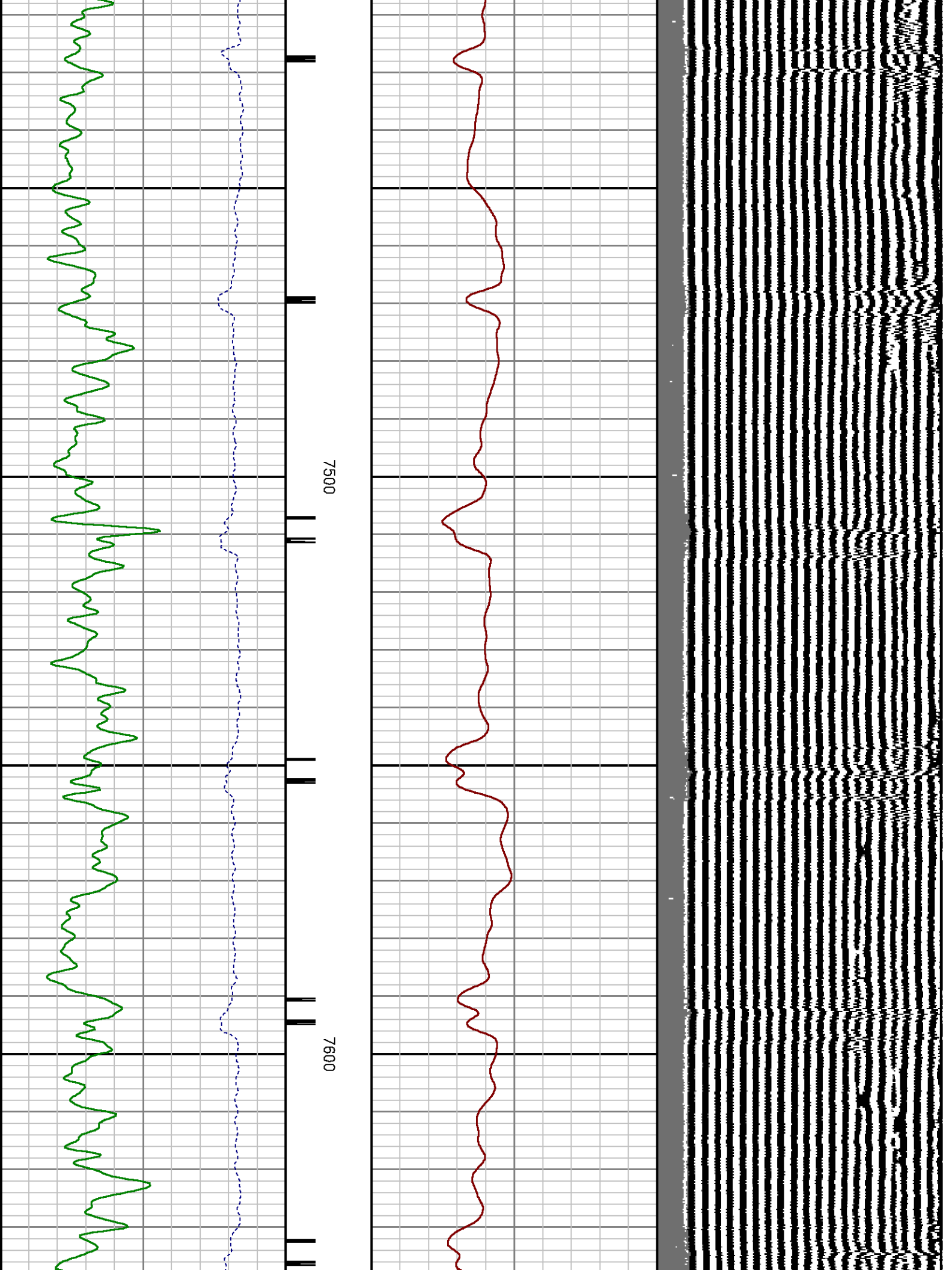


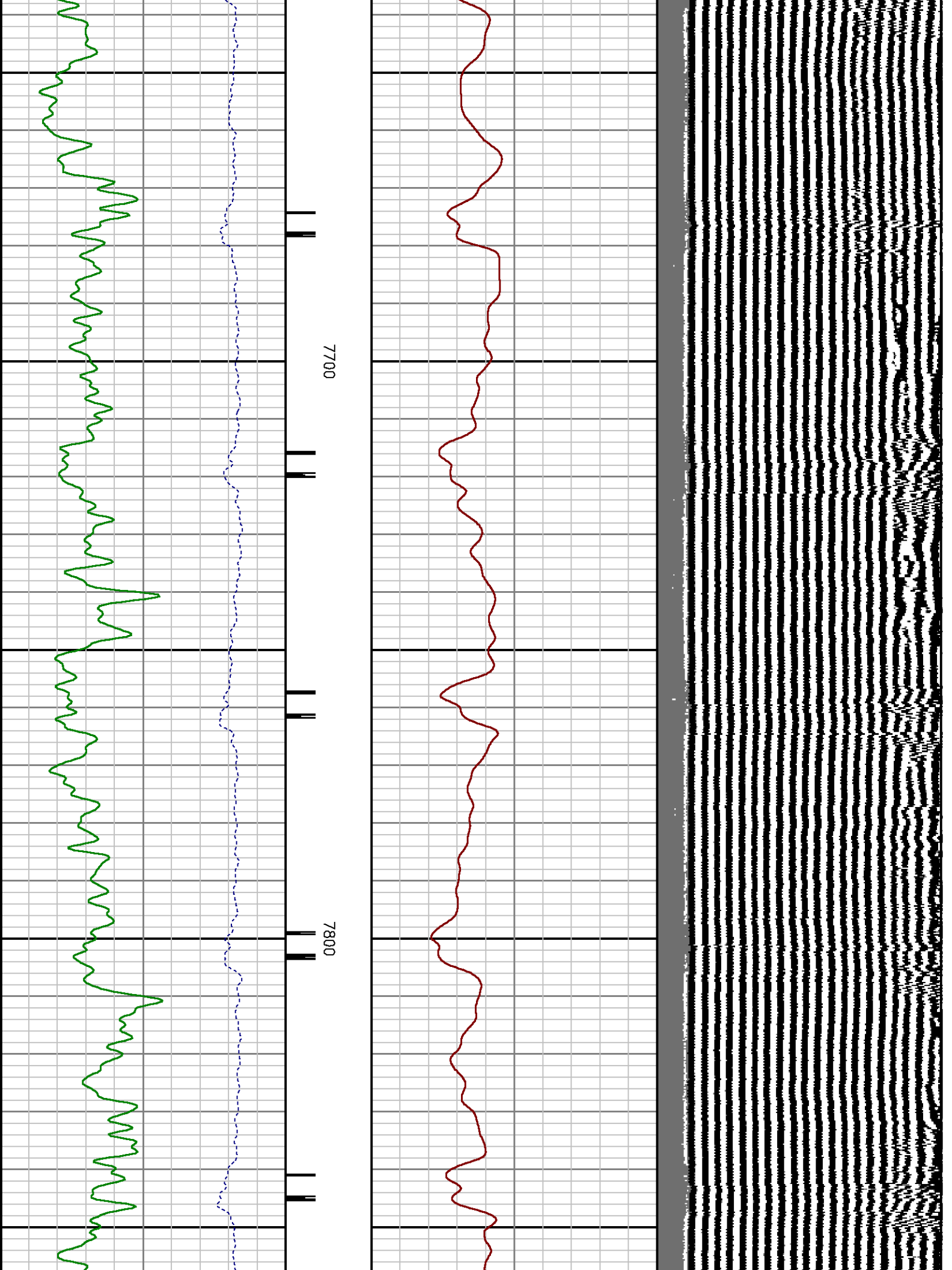


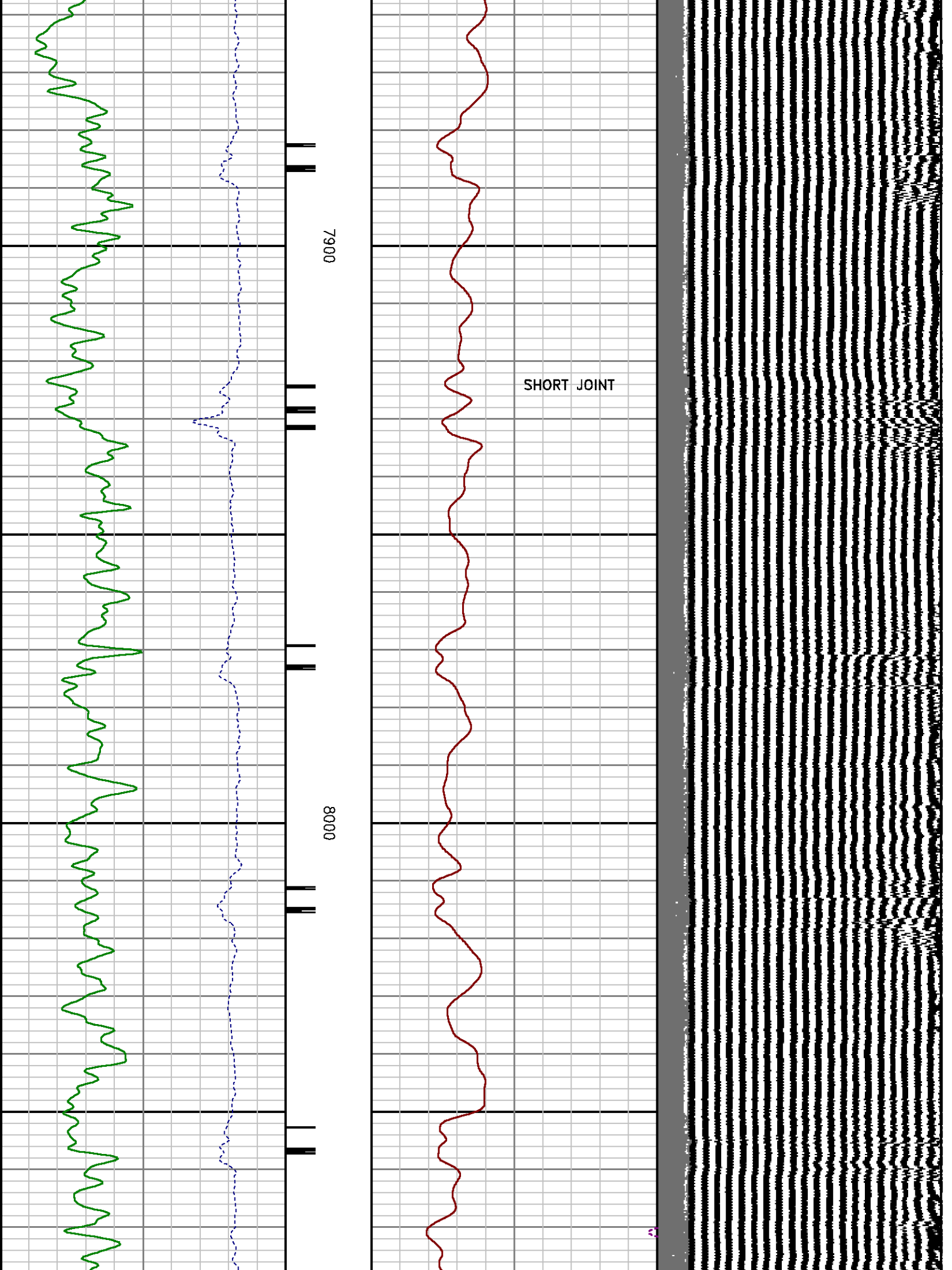


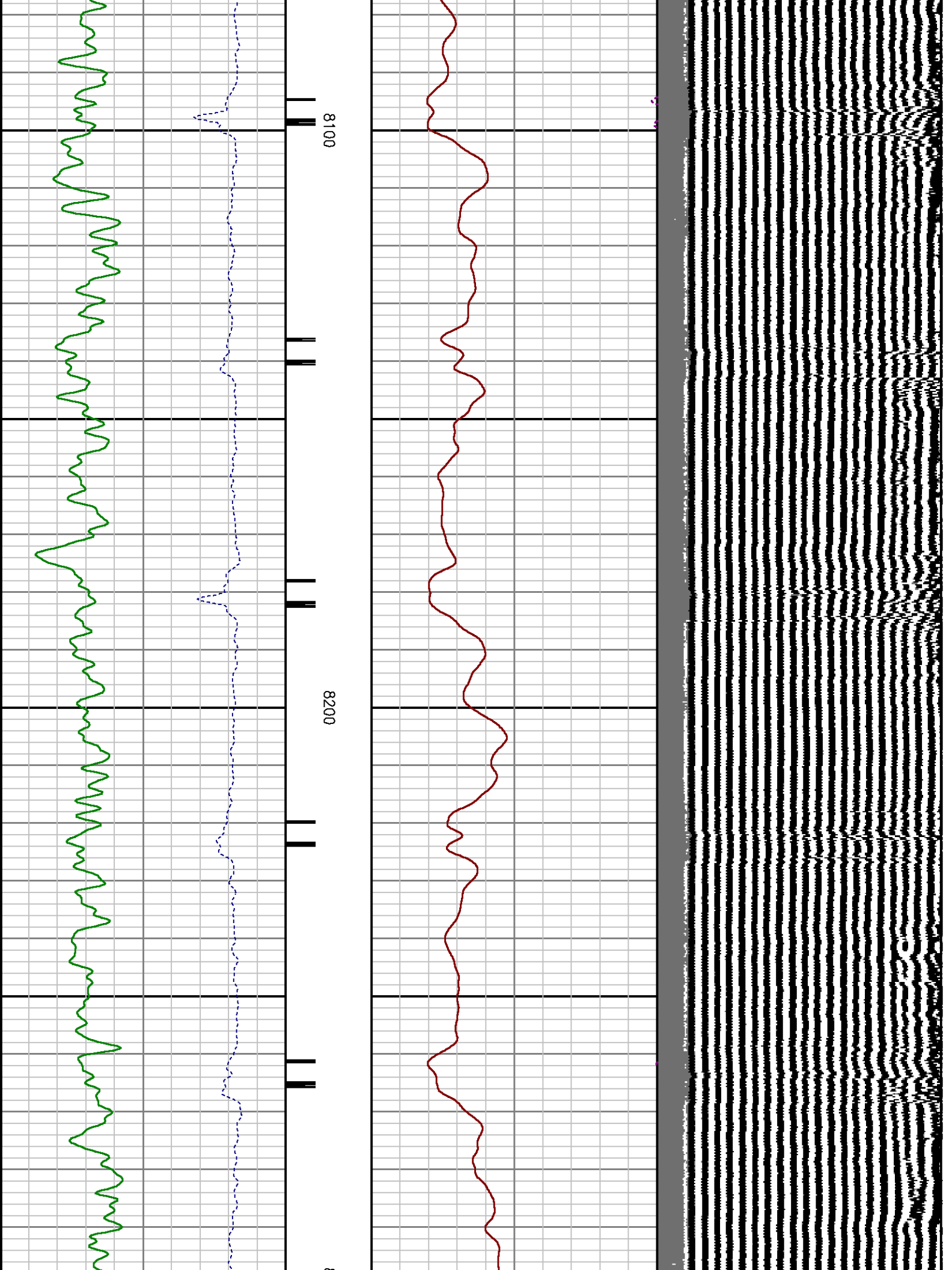


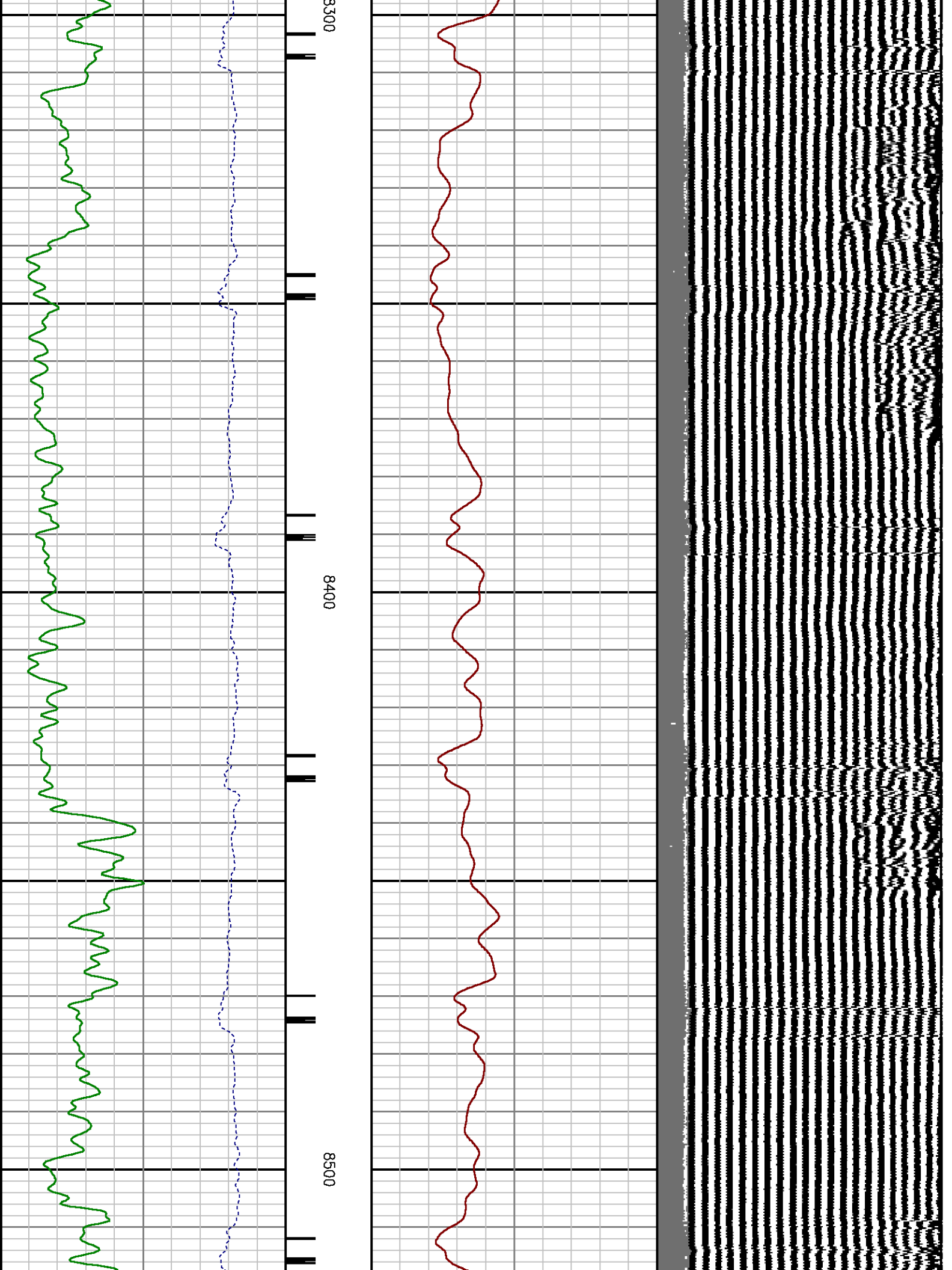


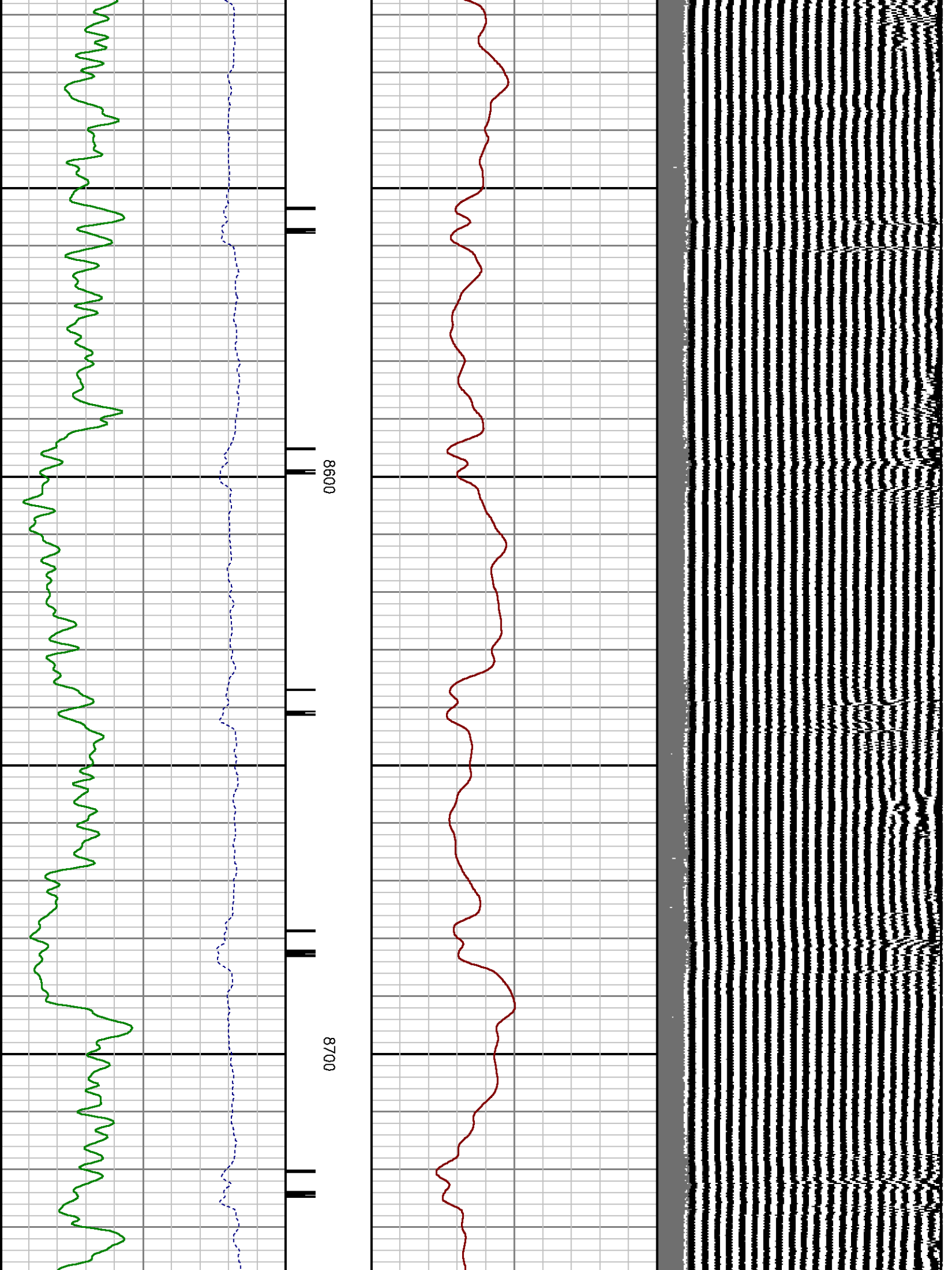


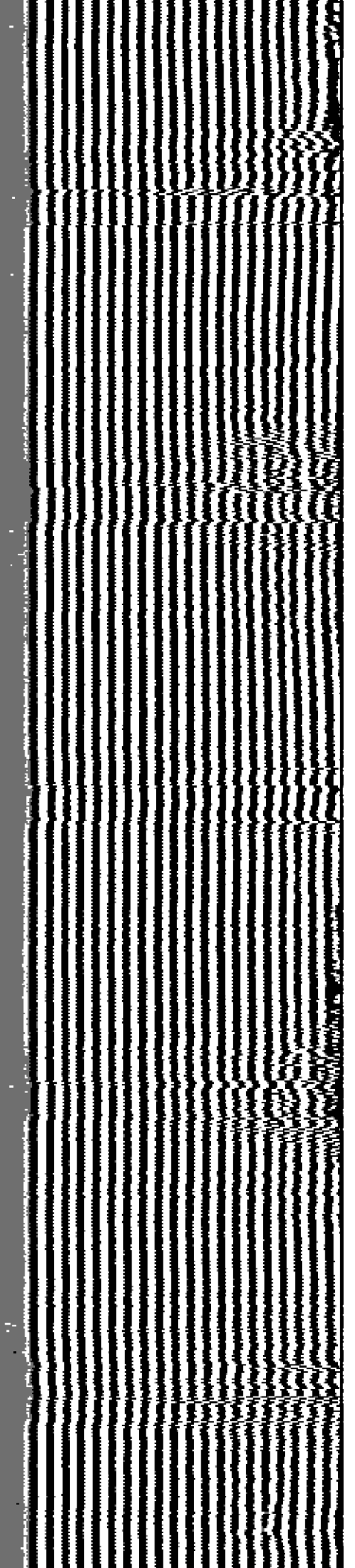
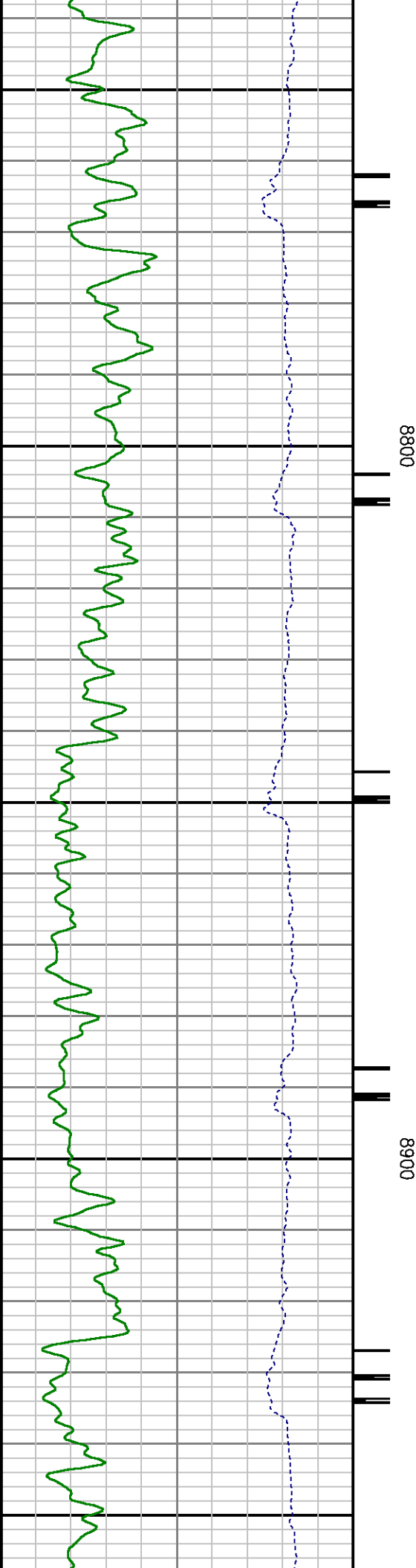


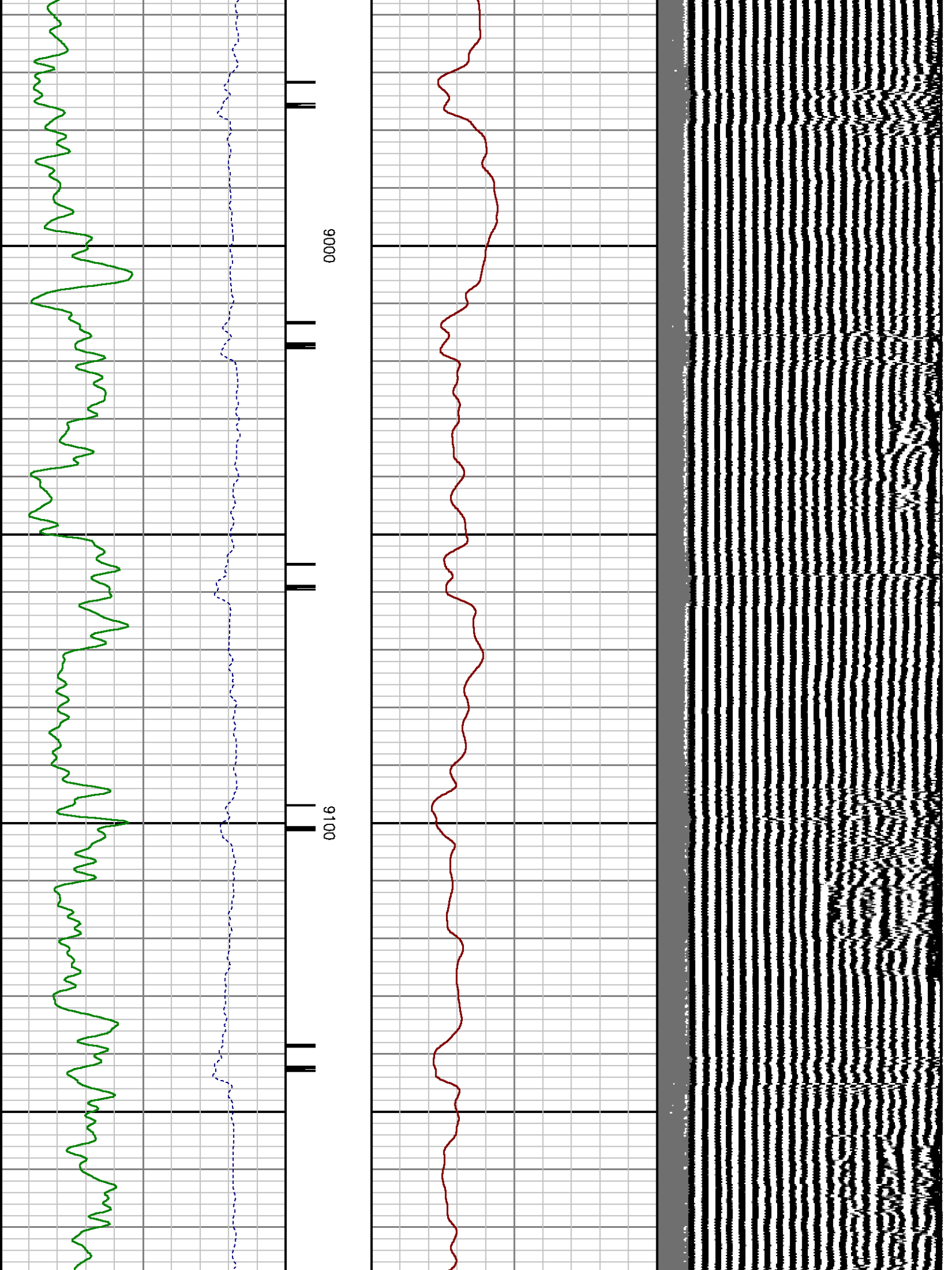


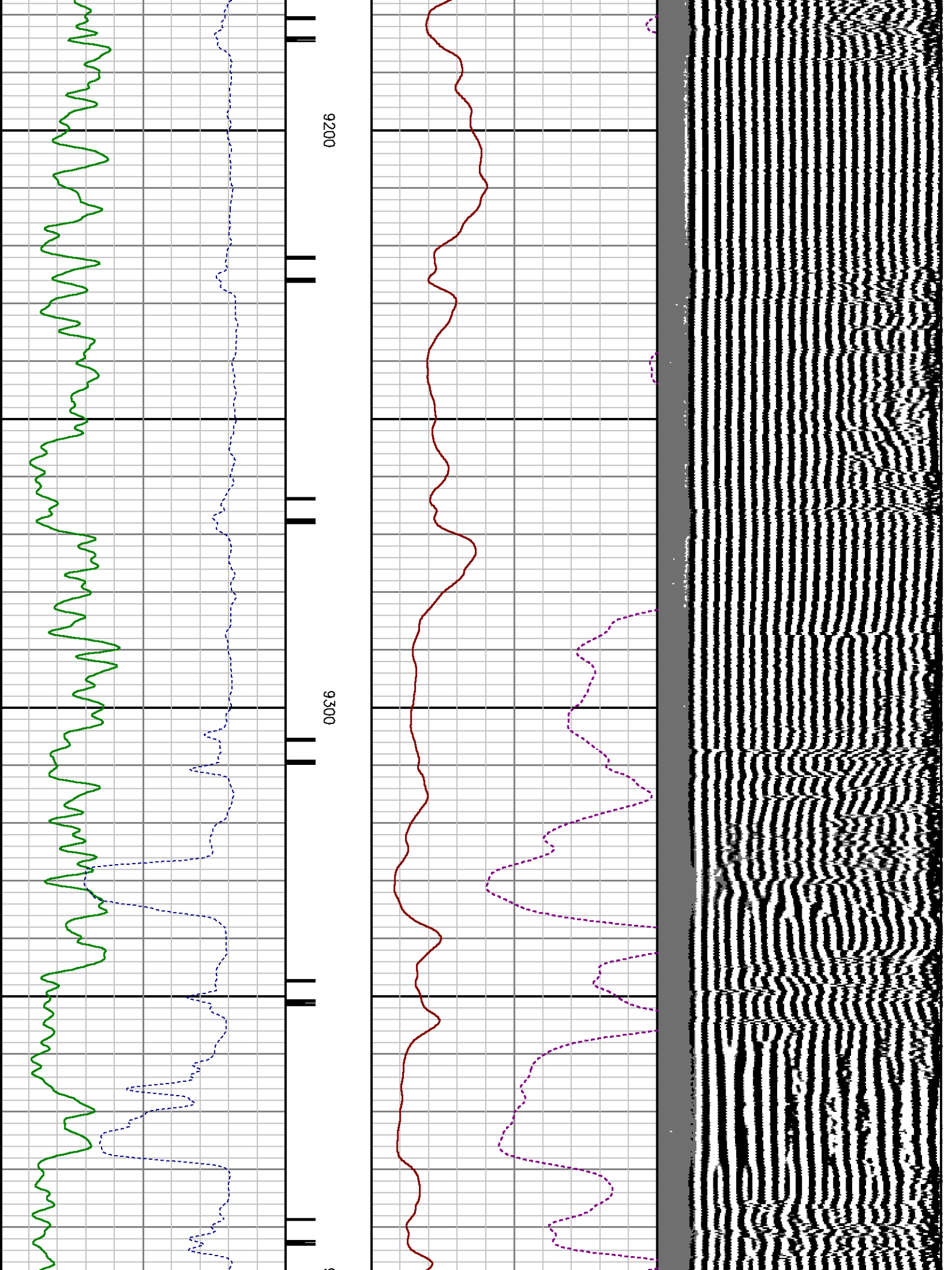


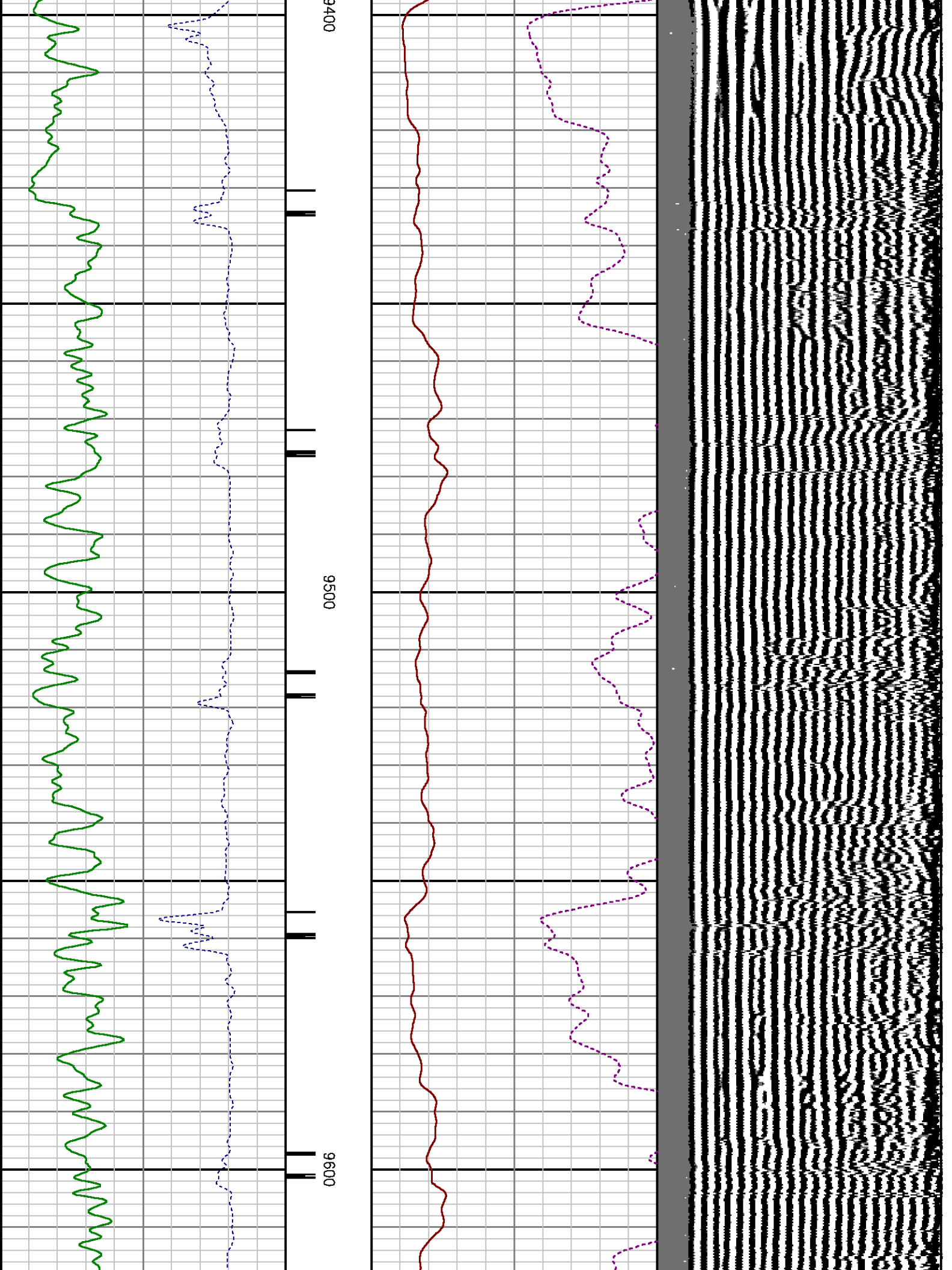


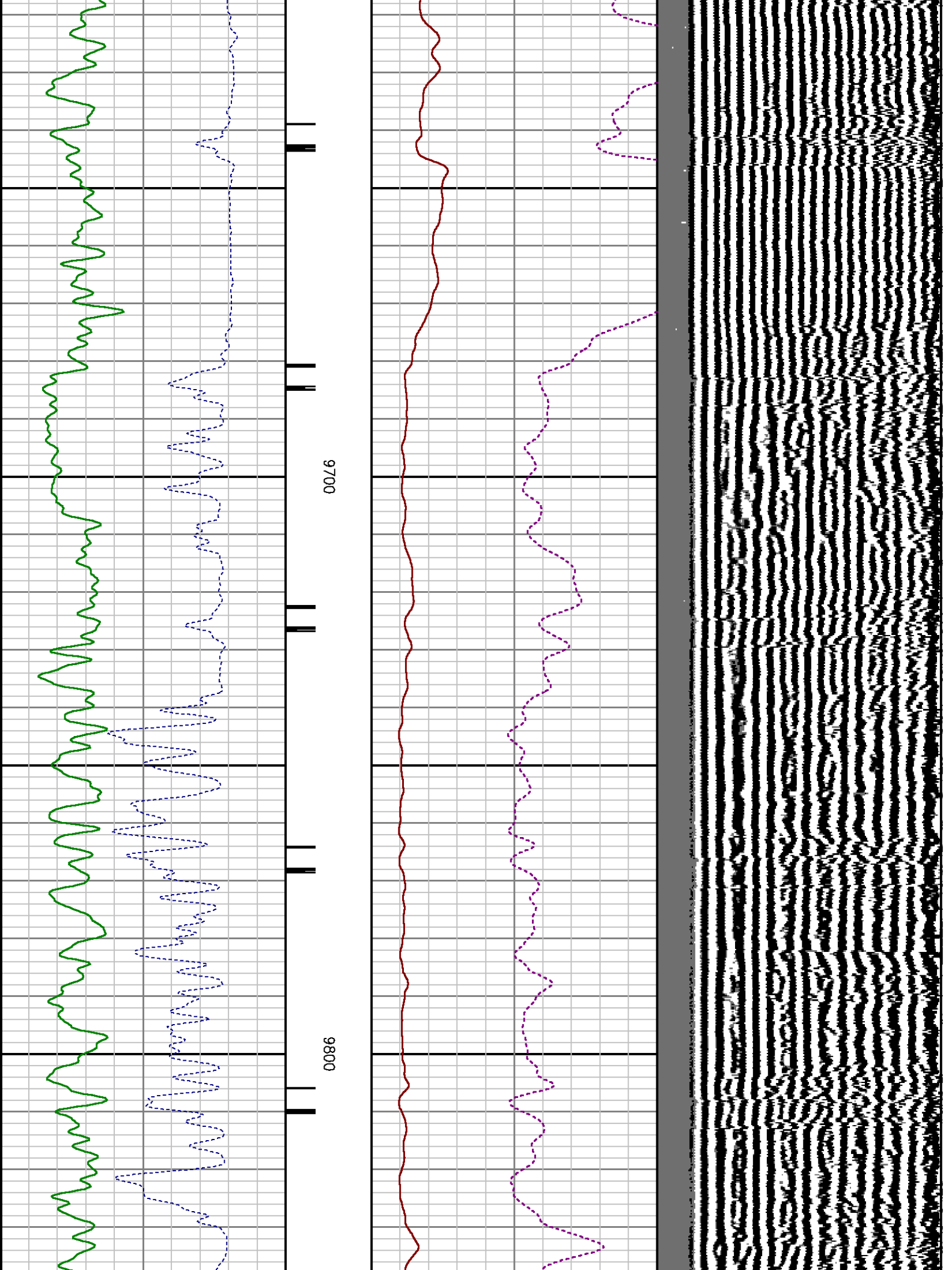


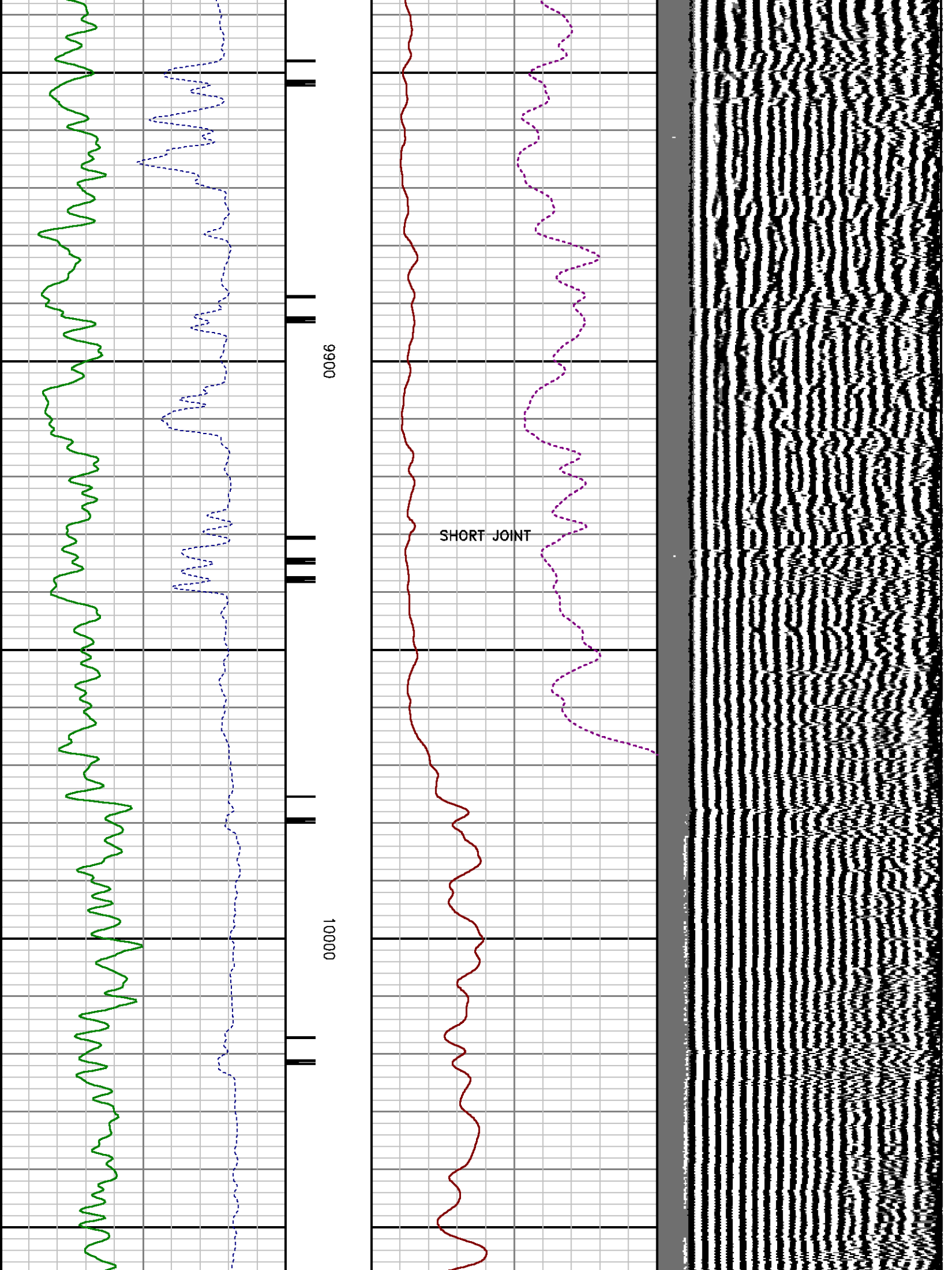


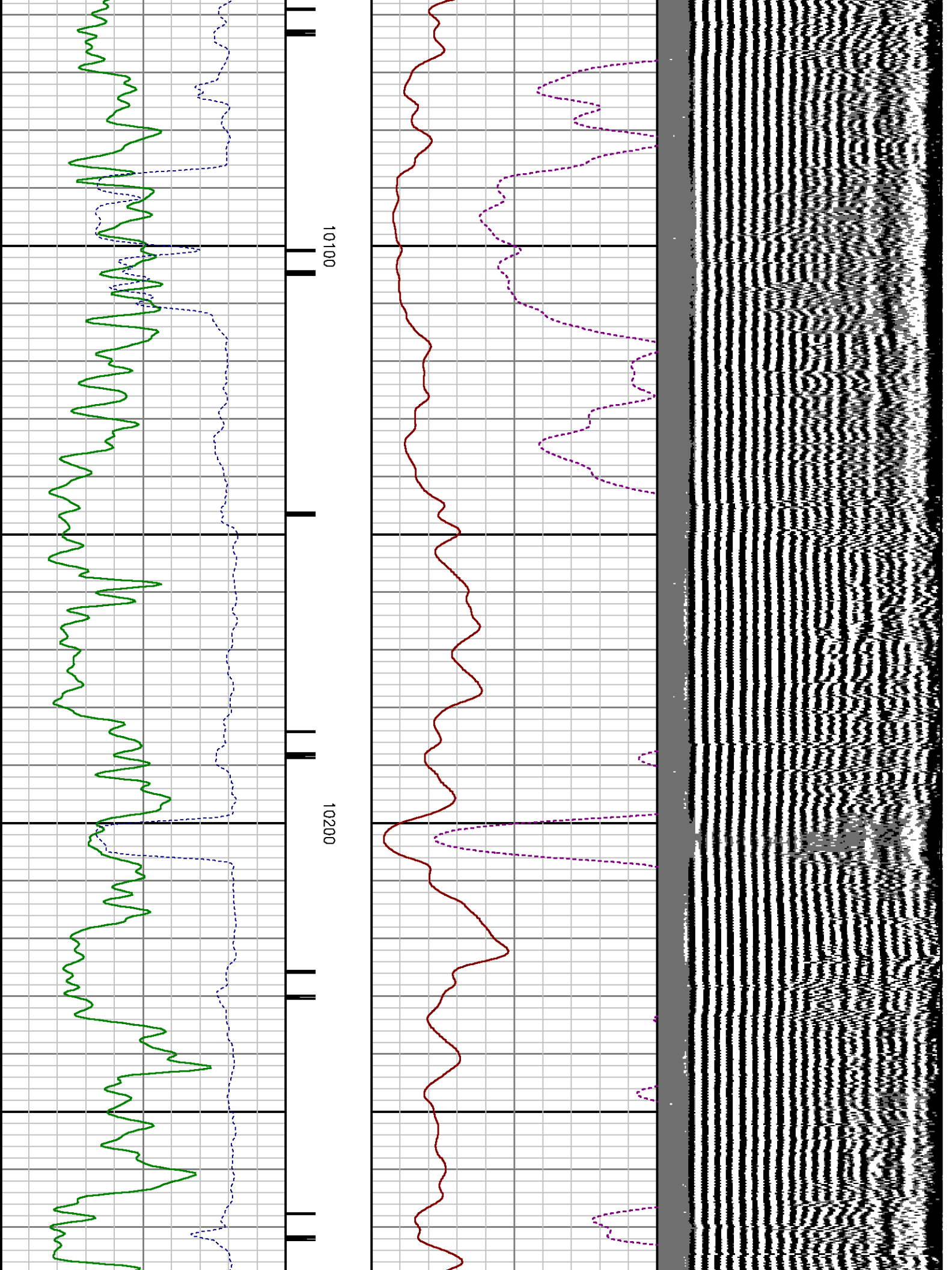


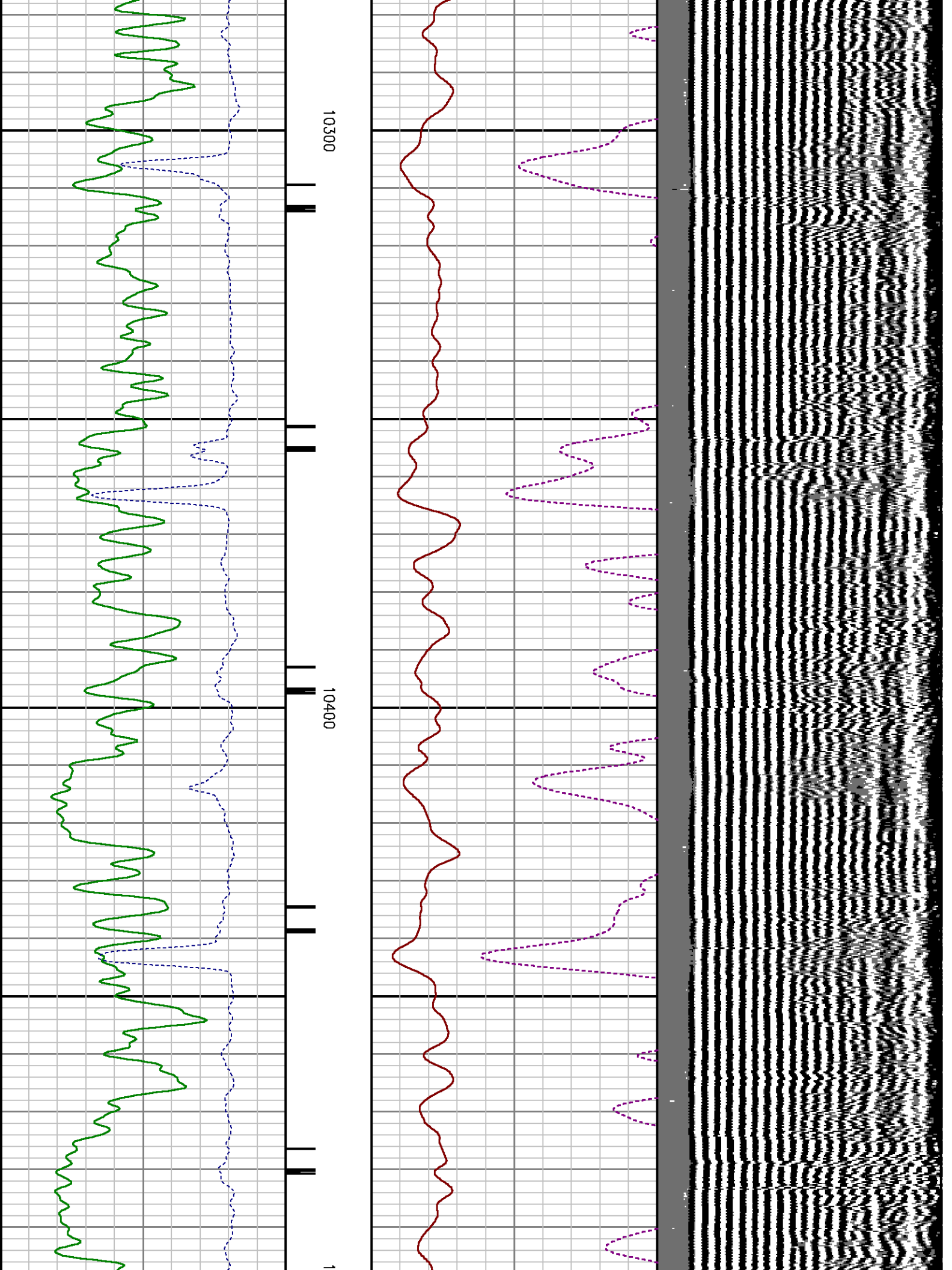


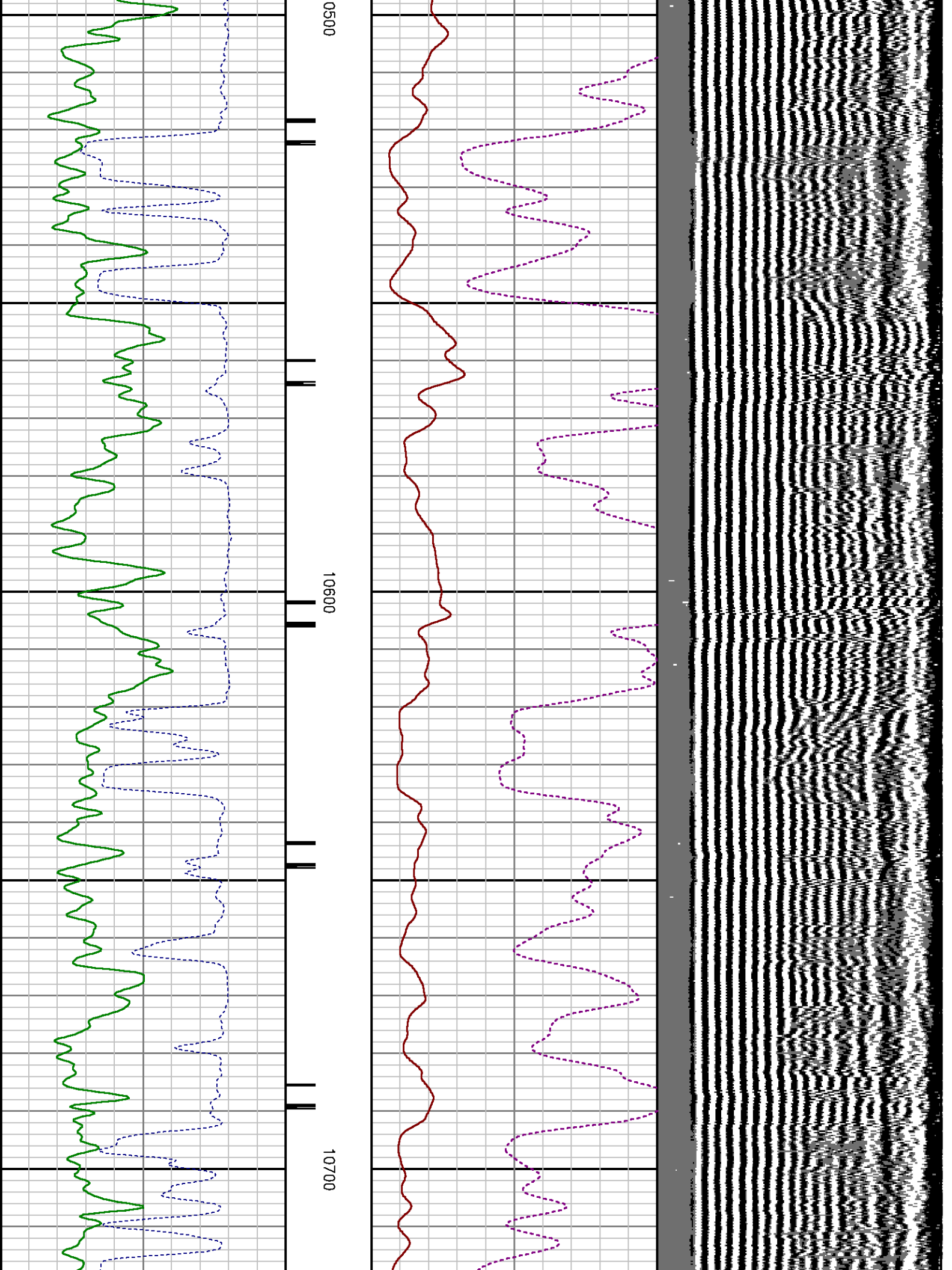


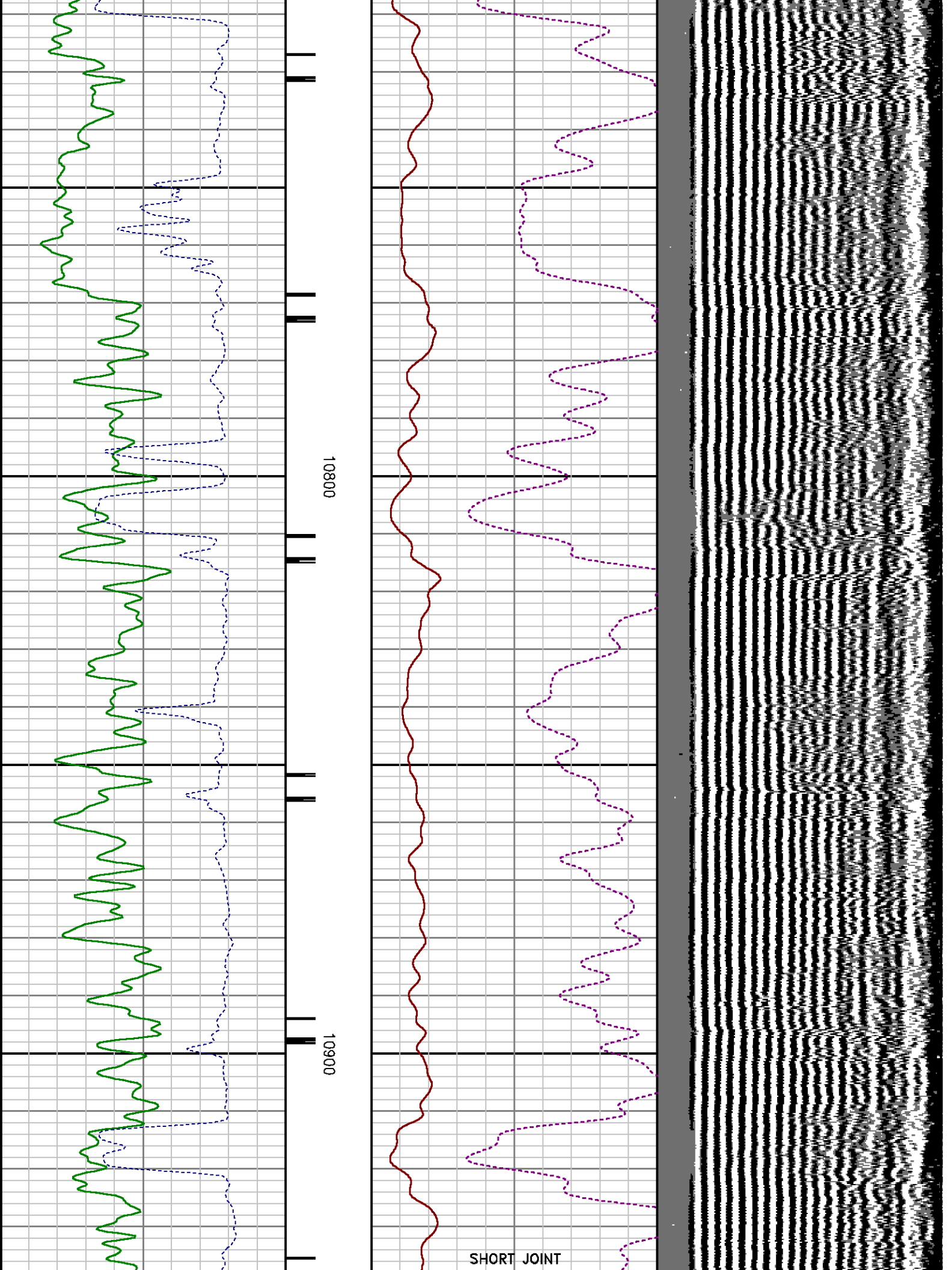


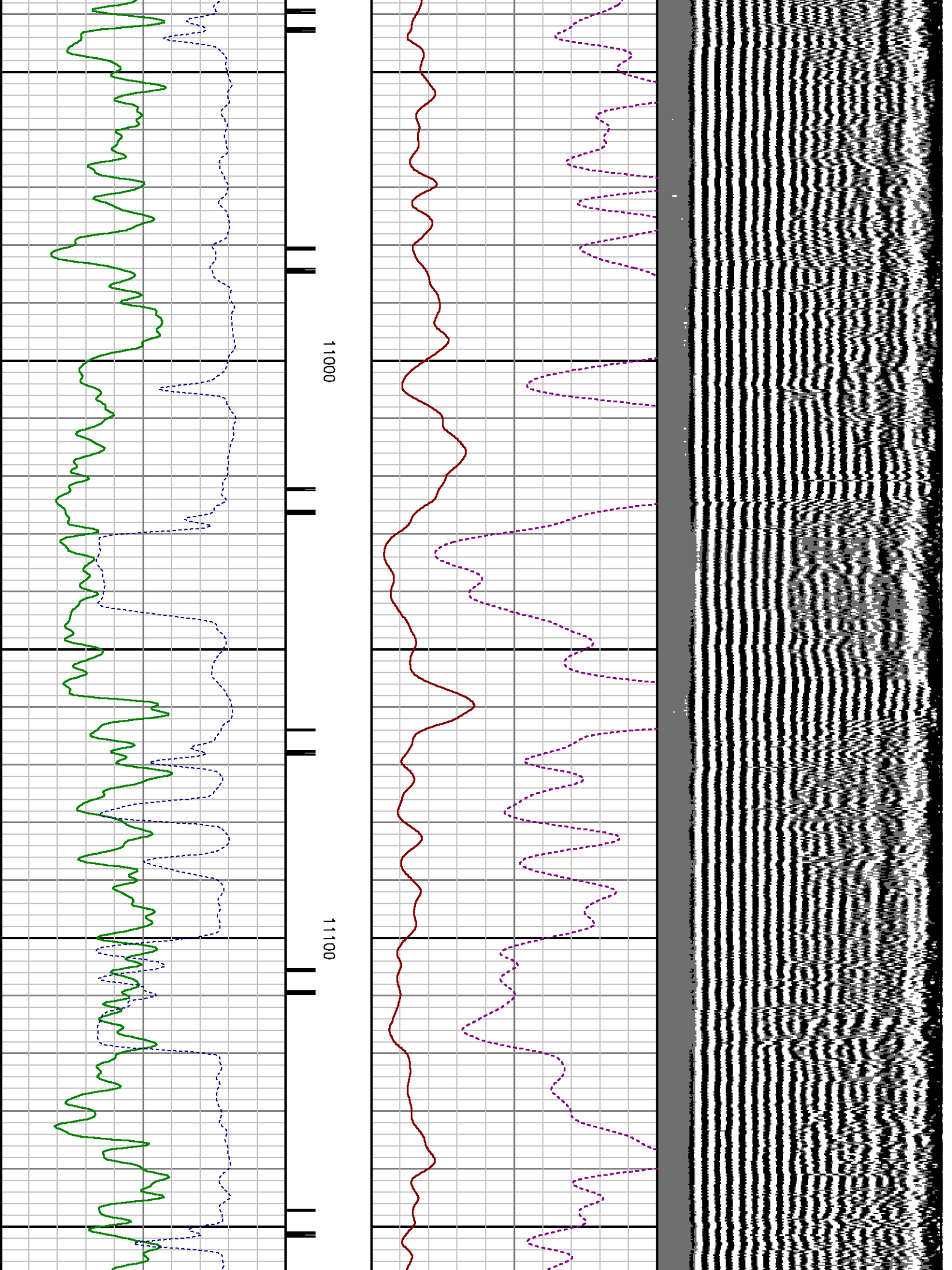


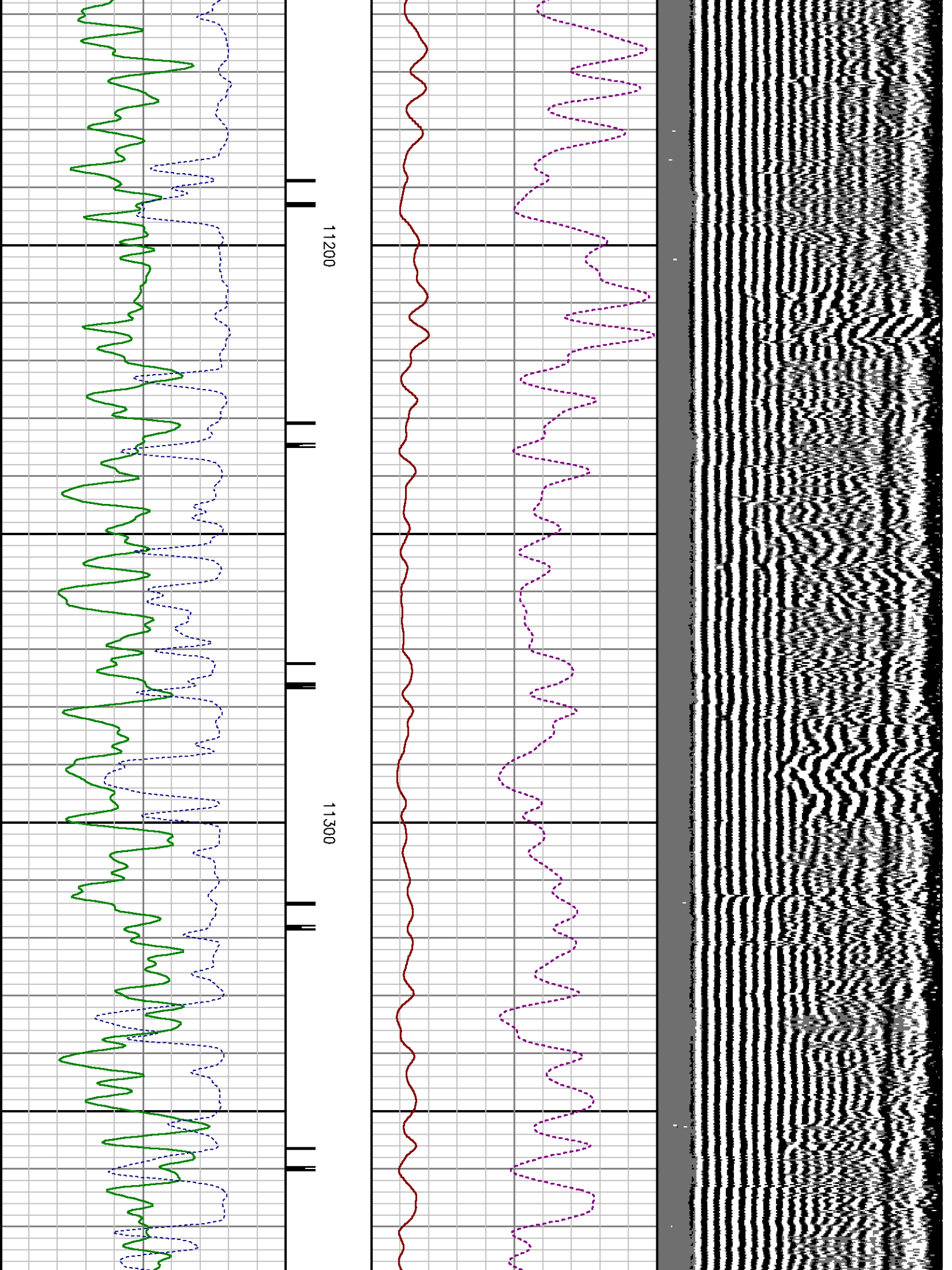


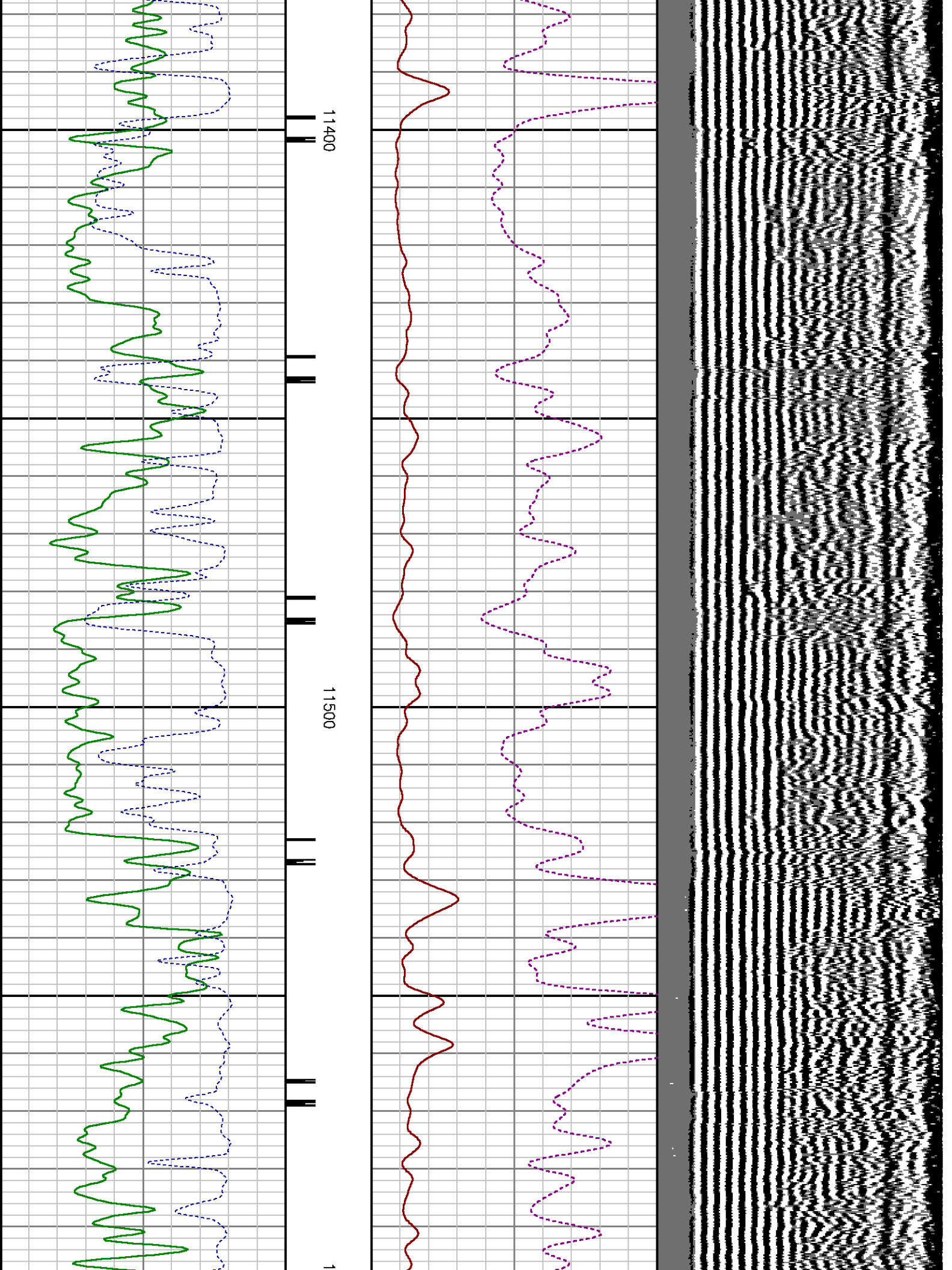


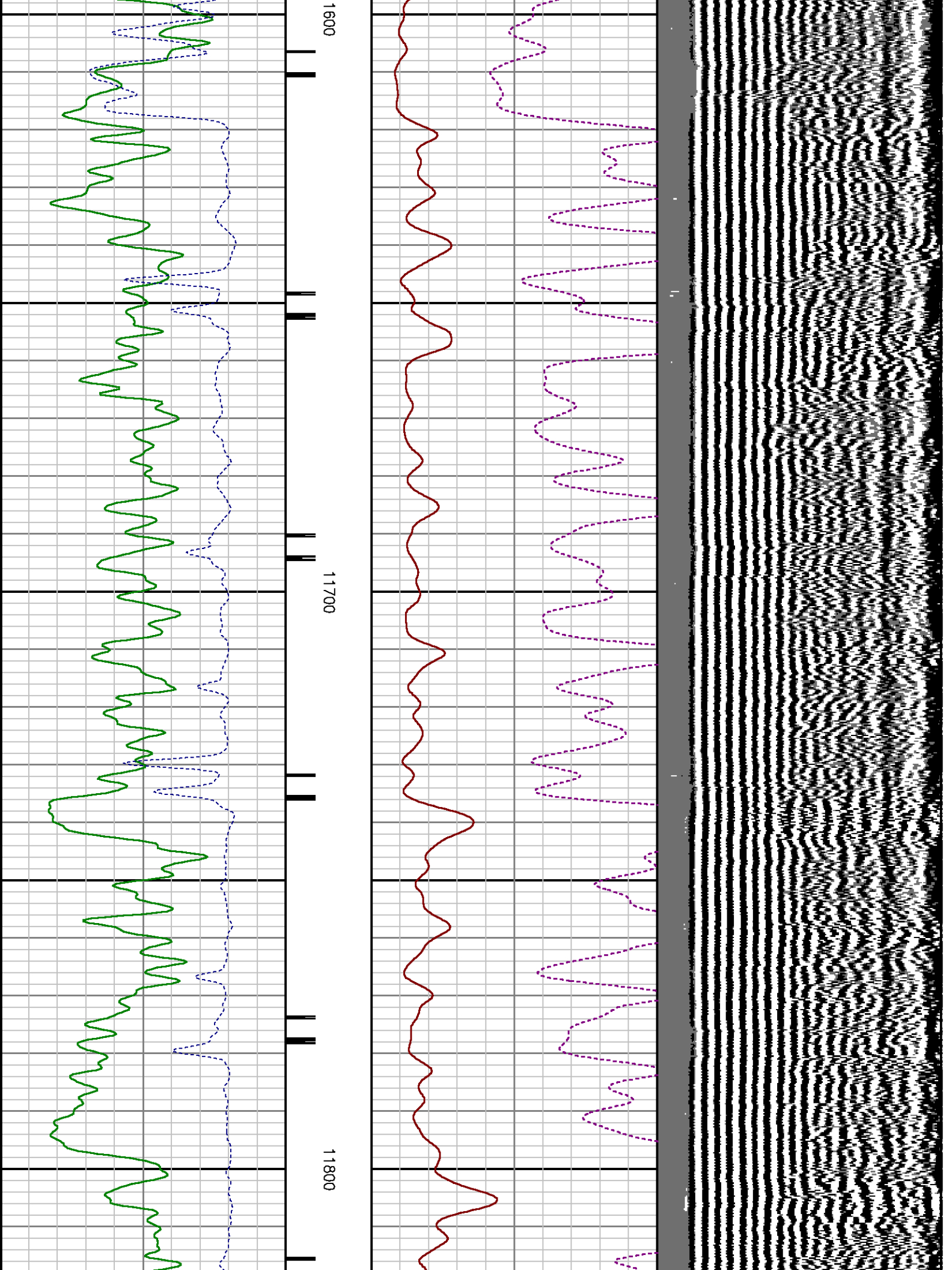


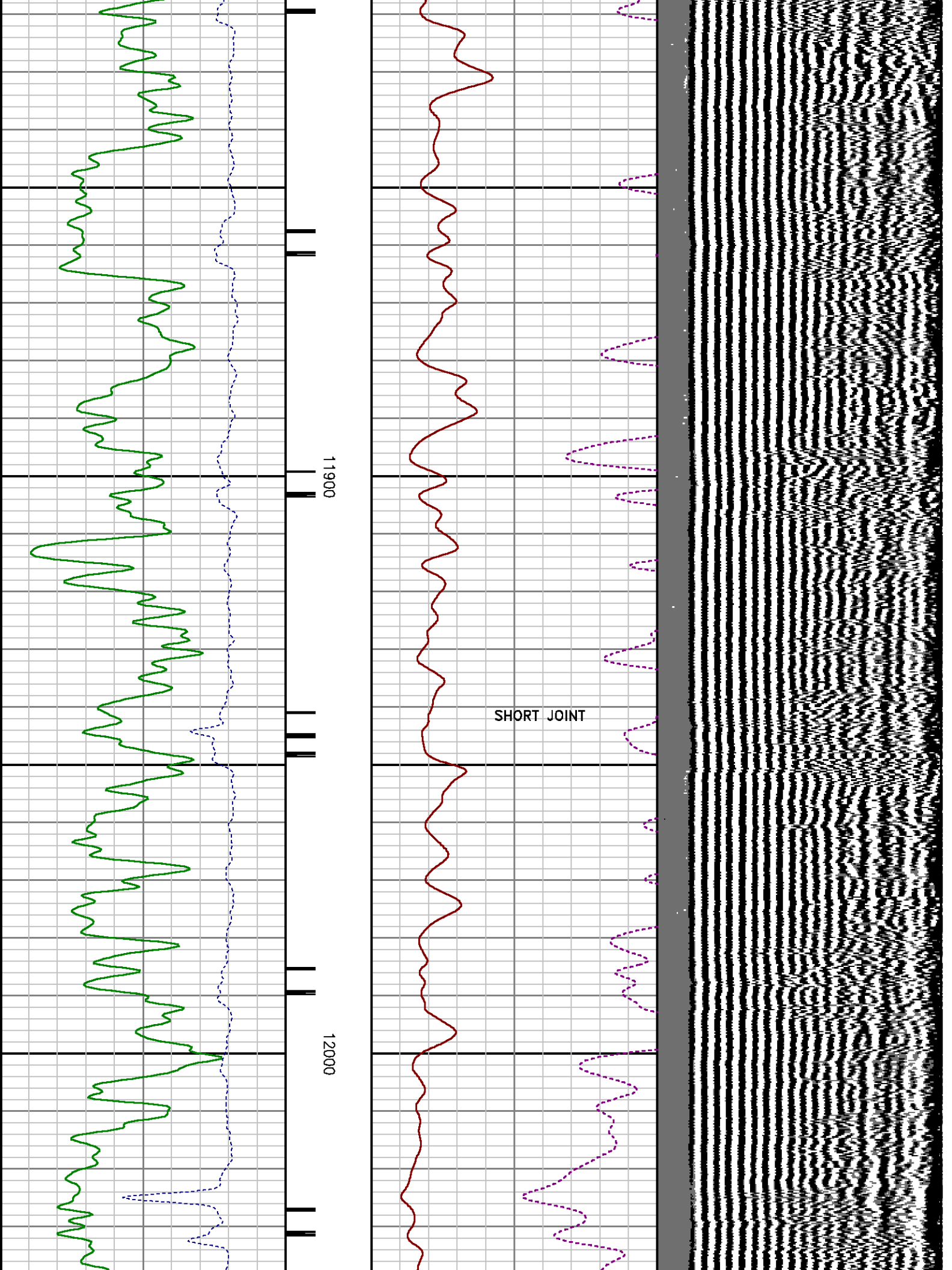


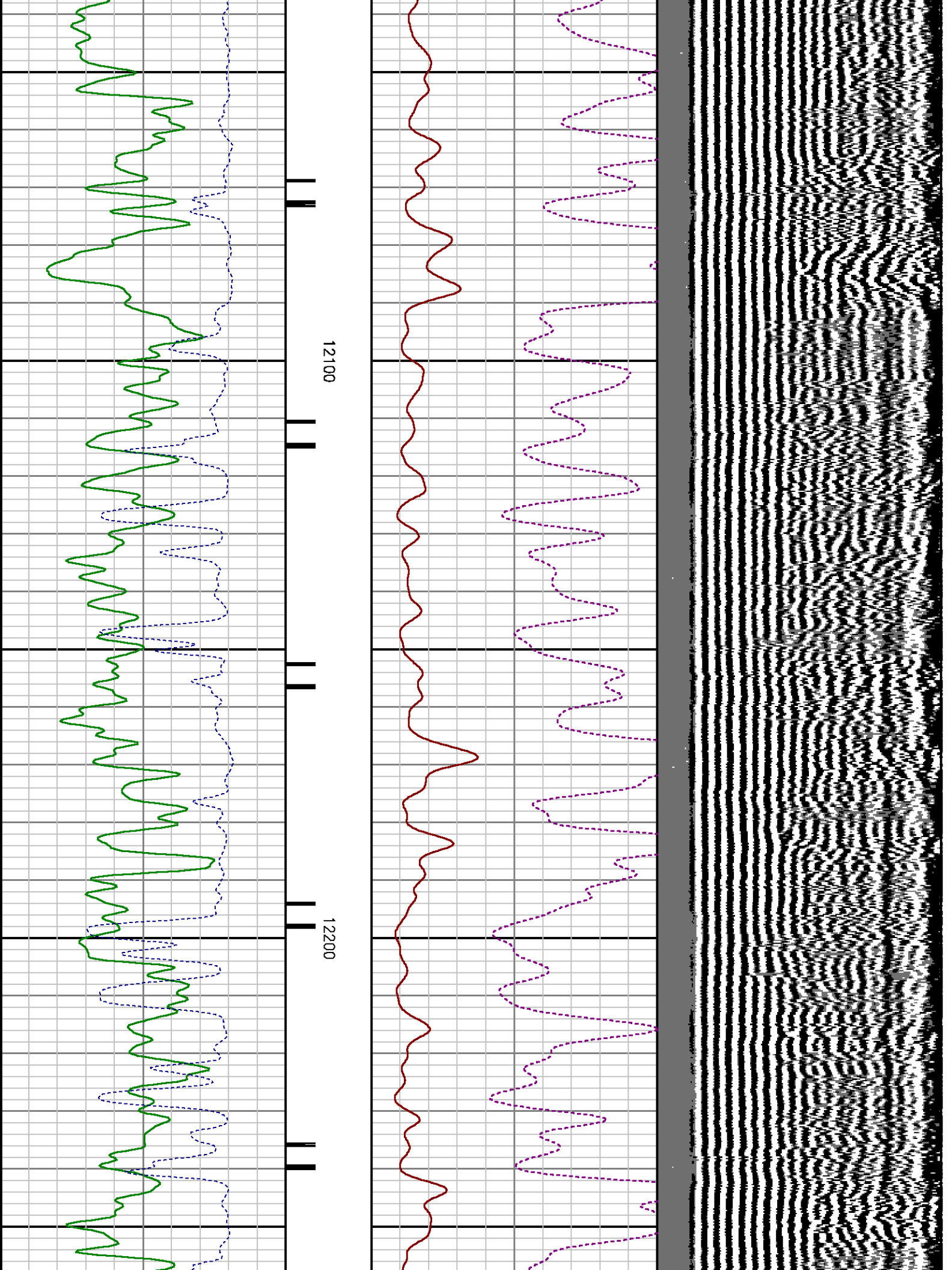


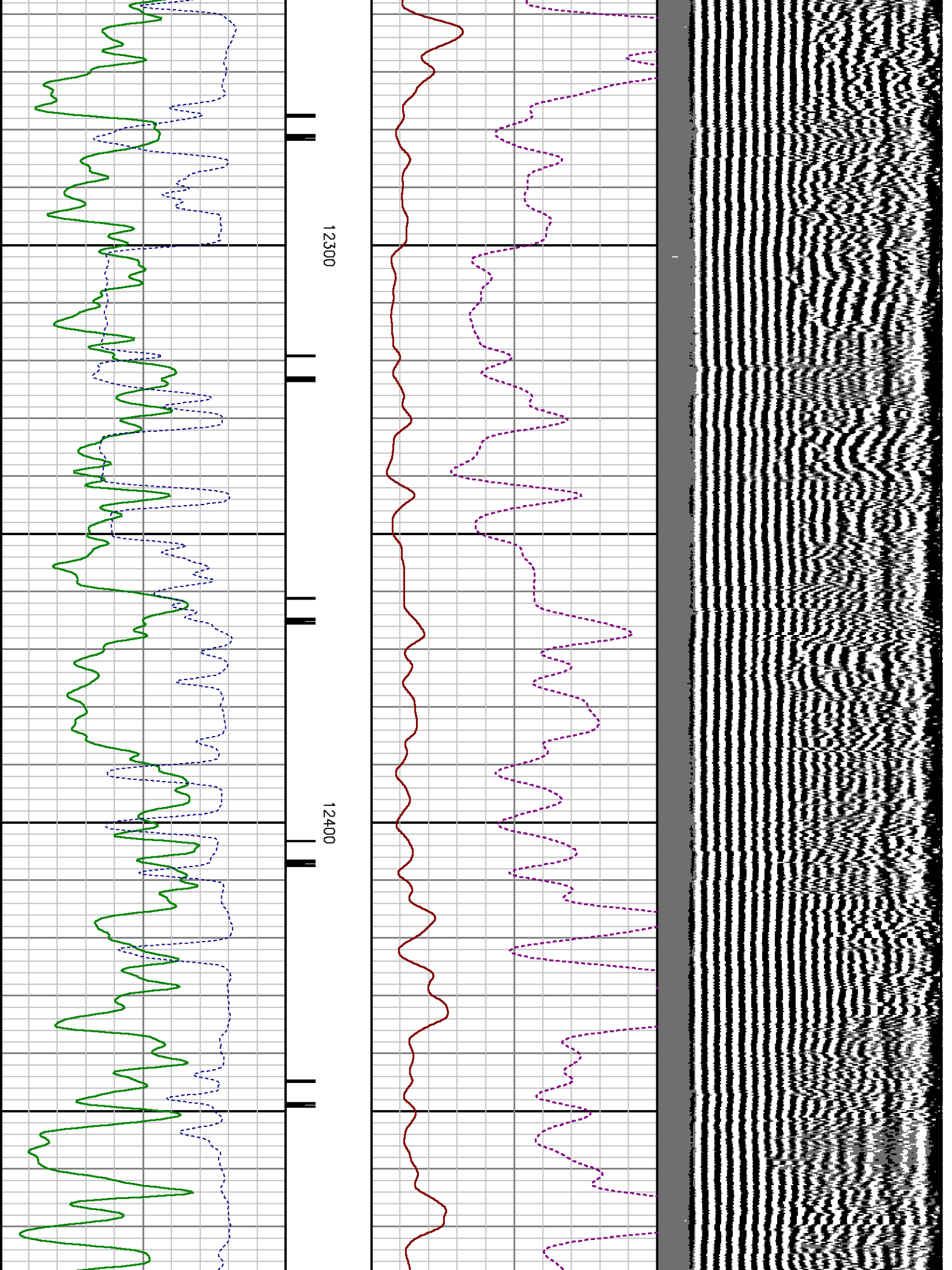


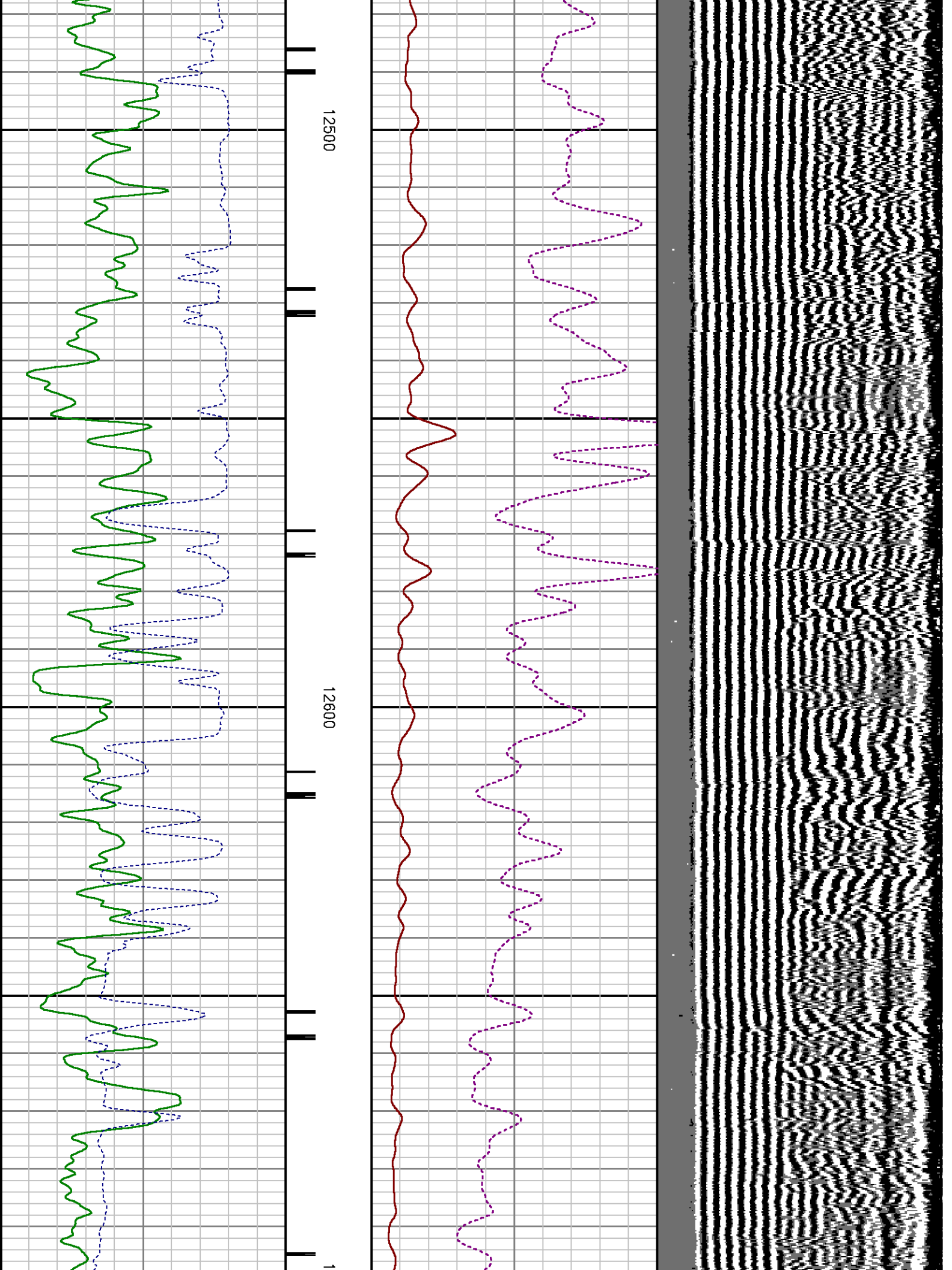


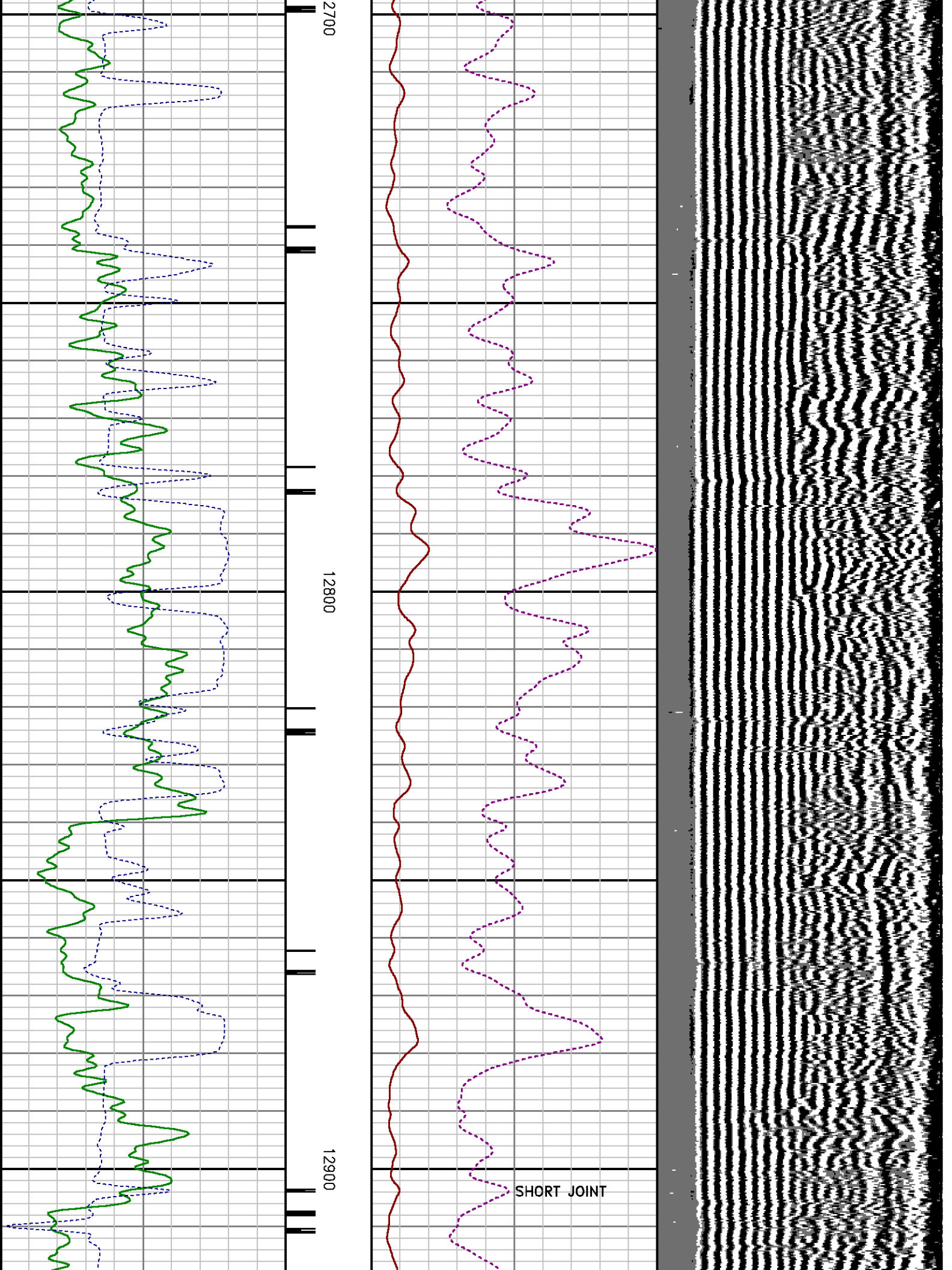


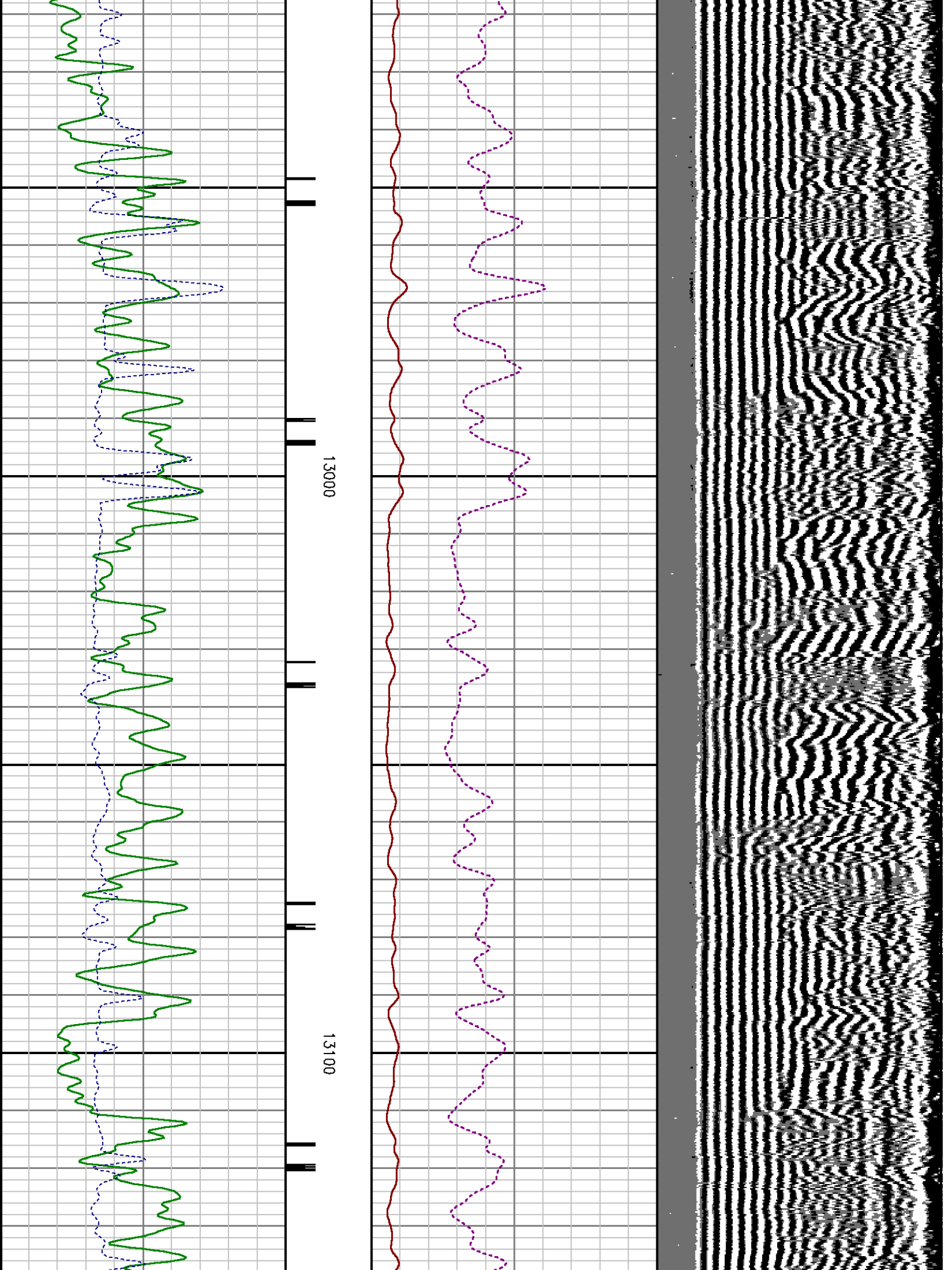


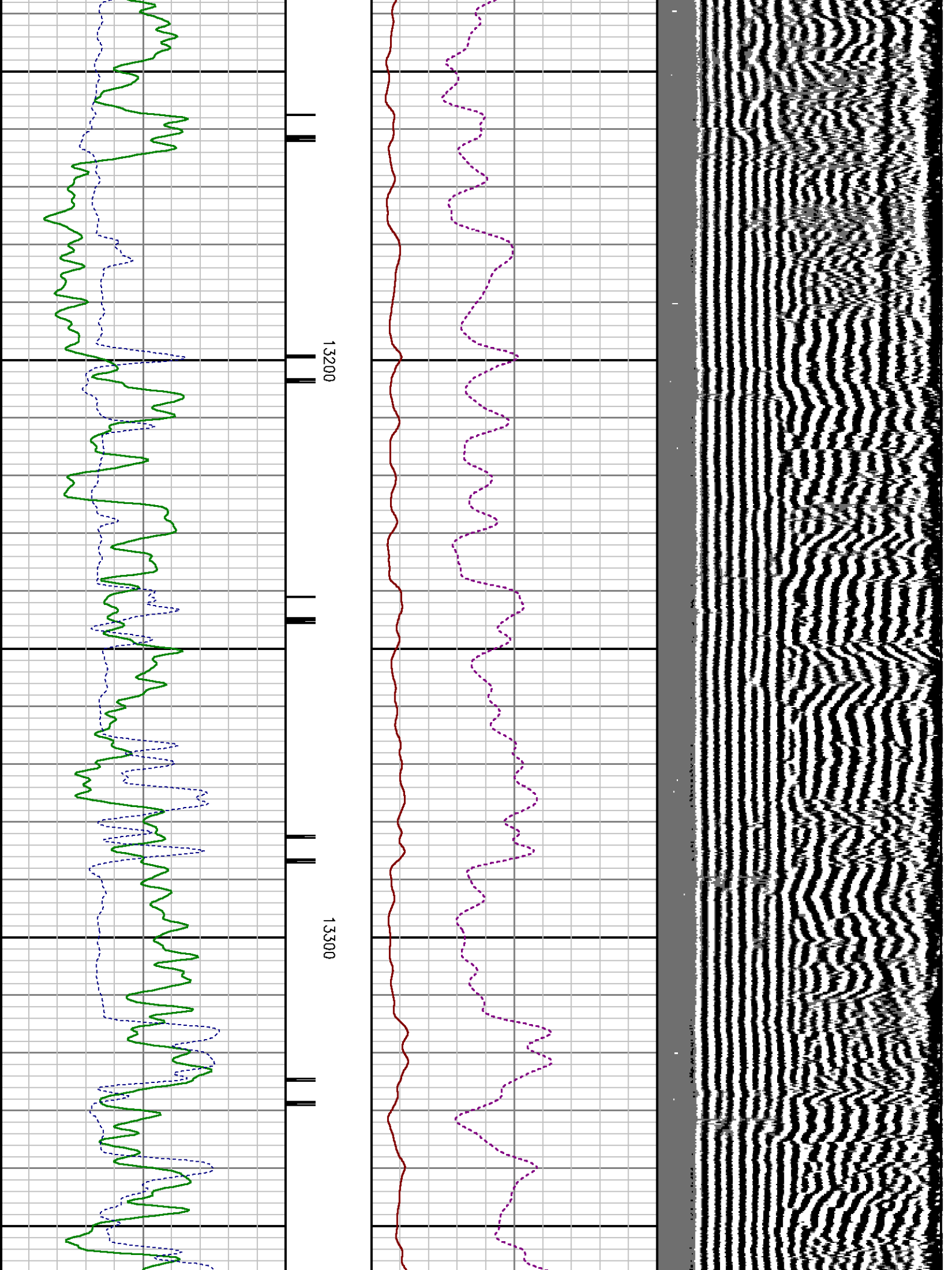


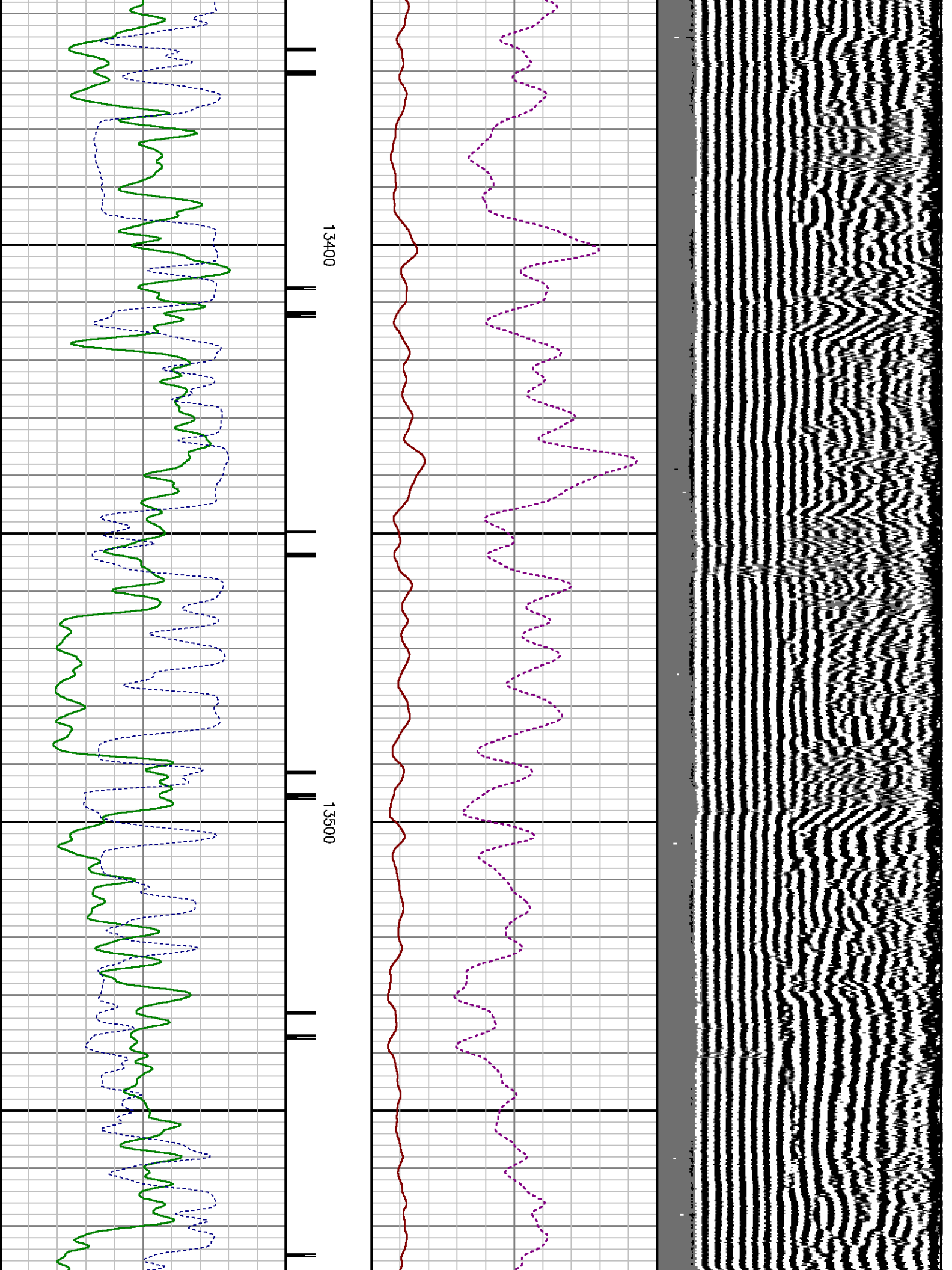


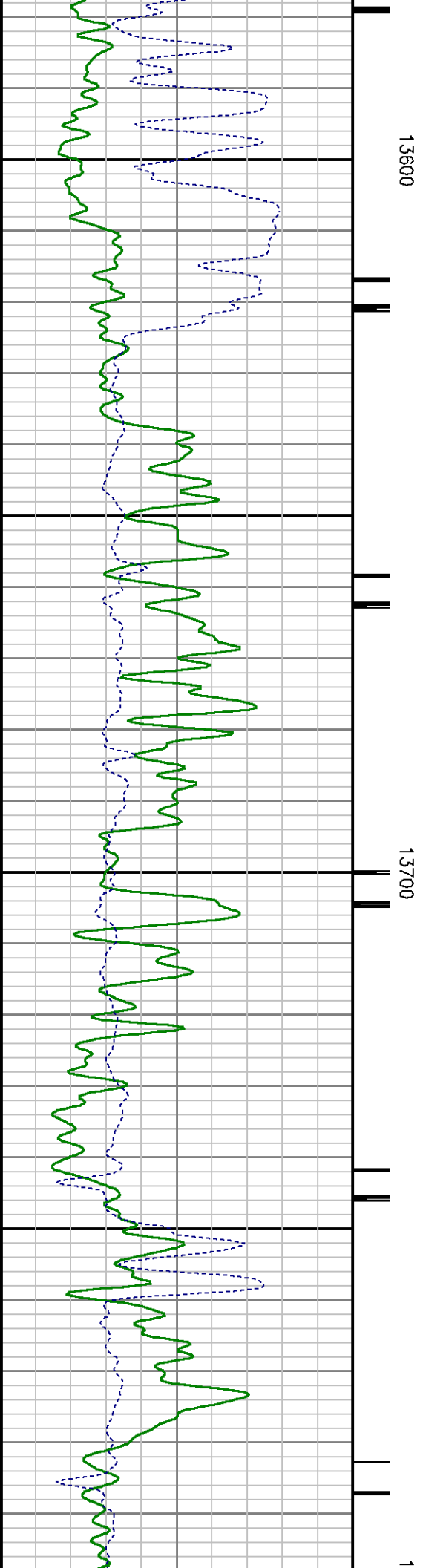
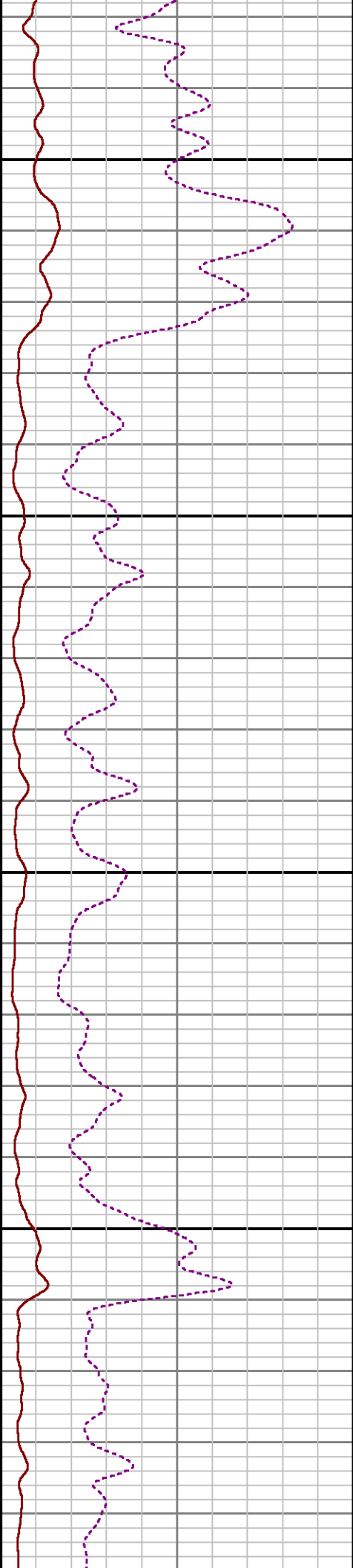
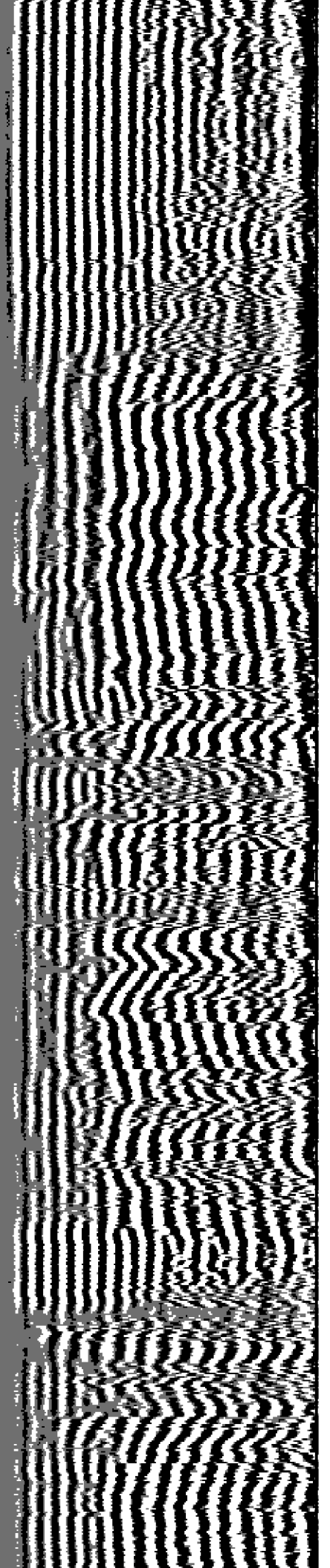


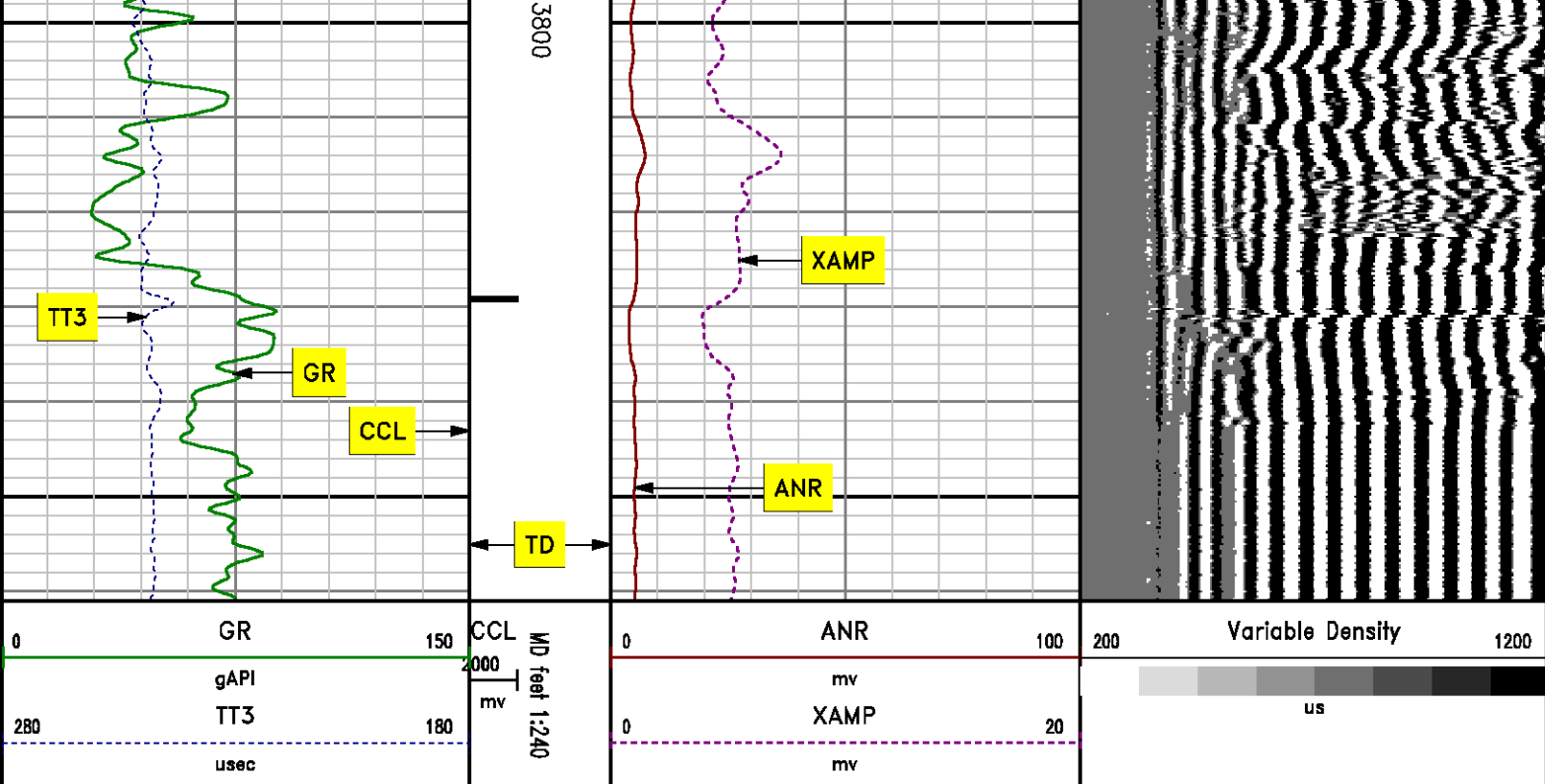












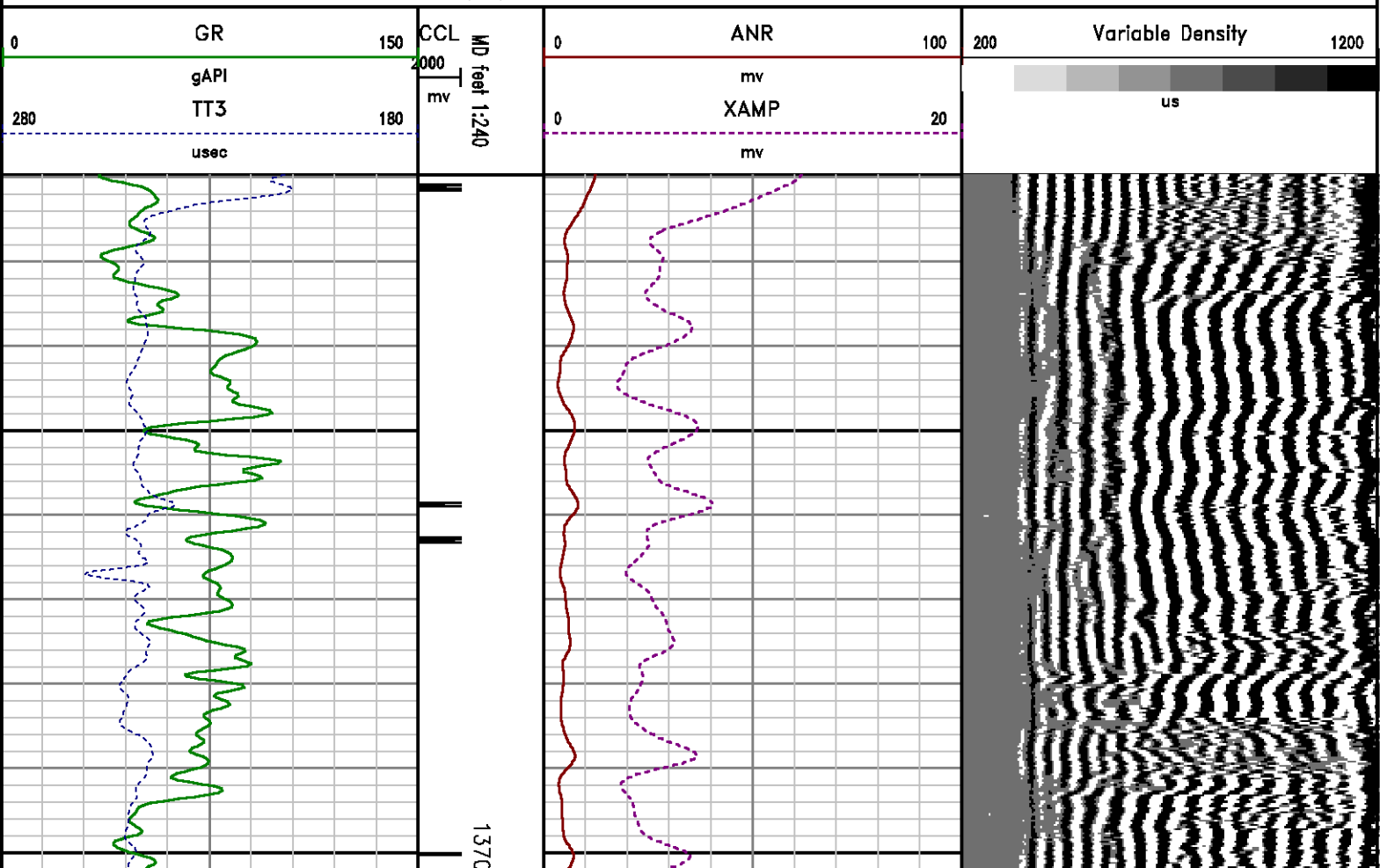
REPEAT SECTION 0 PSI

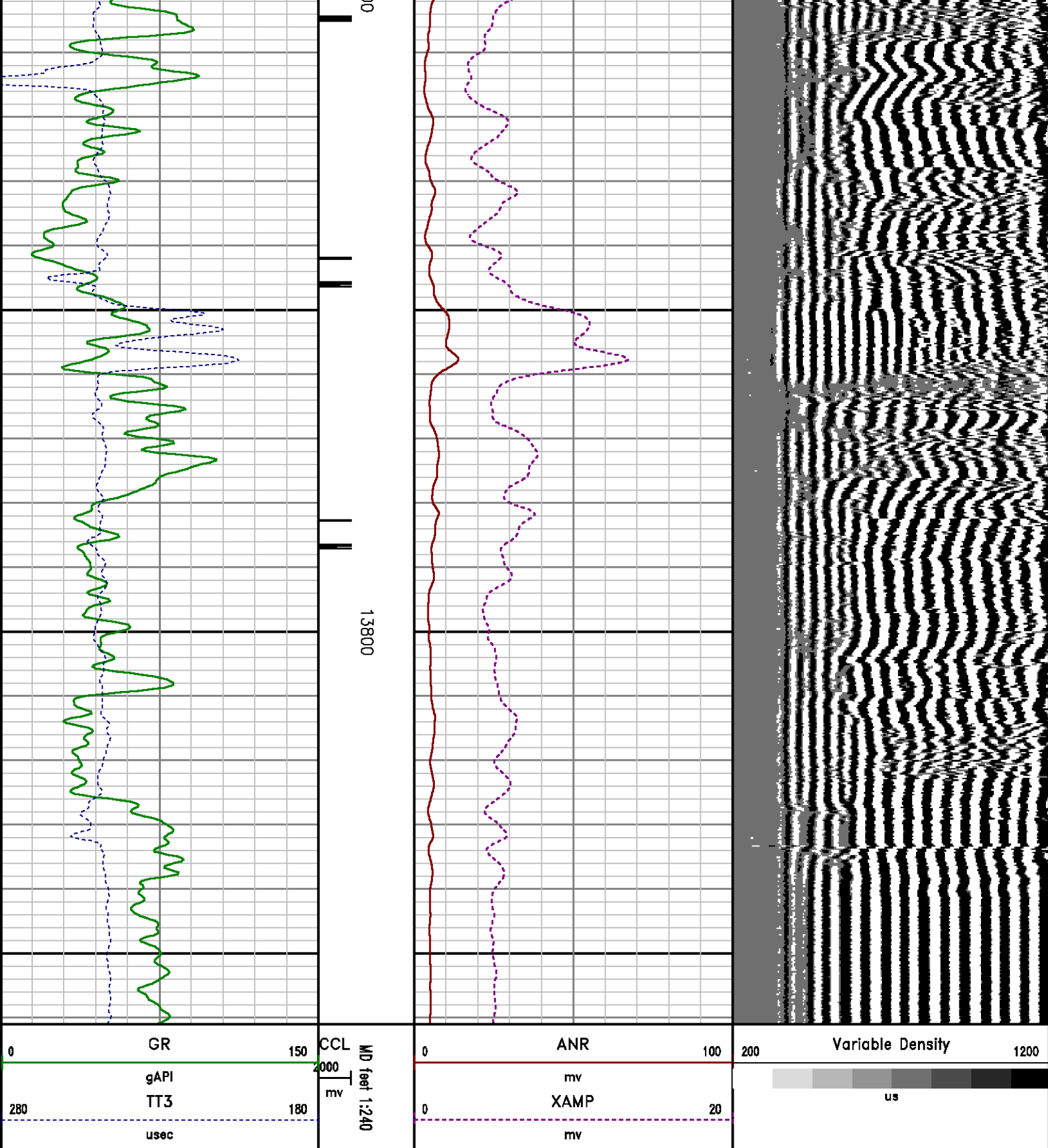
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	13620.000	13879.000
RAL	Amp Gate Start Near	195.000	usec	13620.000	13879.000
RAL	Amp Gate Start Radial	195.000	usec	13620.000	13879.000
RAL	Amp Gate Width Far	25.000	usec	13620.000	13879.000
RAL	Amp Gate Width Near	25.000	usec	13620.000	13879.000
RAL	Amp Gate Width Radial	25.000	usec	13620.000	13879.000
RAL	casing od	4.500	inches	13620.000	13879.000
RAL	casing wt	15.100	lbm/ft	13620.000	13879.000
RAL	FB Start Far	289.263	usec	13620.000	13879.000
RAL	FB Start Near	172.754	usec	13620.000	13879.000
RAL	FB Start Radial	172.754	usec	13620.000	13879.000
RAL	FB Thresh Far	15.000	mv	13620.000	13879.000
RAL	FB Thresh Near	10.000	mv	13620.000	13879.000
RAL	FB Thresh Radial	10.000	mv	13620.000	13879.000
RAL	Fluid Travel Time	200.000	usec/ft	13620.000	13879.843

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 : RAL, v4.8.007
Plotted by : PlotMgr, v5.4.504
Company : EXXONMOBIL EXPLORATION COMPANY
Well : PCU 296-6B1
File Name : d:\welldata\exxon\pcu 296-6 b1\b1cb1\repeat.xtf
Mode : PlotMgr 5.4.504
Interval : 13619.75 - 13861.00 feet UP
Created : 11/29/2011 3:17:31 PM





FREE PIPE SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	310.000	usec	265.000	585.000
RAL	Amp Gate Start Near	195.000	usec	265.000	585.000
RAL	Amp Gate Start Radial	195.000	usec	265.000	585.000
RAL	Amp Gate Width Far	25.000	usec	265.000	585.000
RAL	Amp Gate Width Near	25.000	usec	265.000	585.000
RAL	Amp Gate Width Radial	25.000	usec	265.000	585.000
RAL	casing od	4.500	inches	265.000	585.000
RAL	casing wt	15.100	lbm/ft	265.000	585.000
RAL	FB Start Far	289.263	usec	265.000	585.000
RAL	FB Start Near	172.754	usec	265.000	585.000
RAL	FB Start Radial	172.754	usec	265.000	585.000
RAL	FB Thresh Far	15.000	mv	265.000	585.000
RAL	FB Thresh Near	10.000	mv	265.000	585.000
RAL	FB Thresh Radial	10.000	mv	265.000	585.000
RAL	Fluid Travel Time	200.000	usec/ft	265.000	585.000

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, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : EXXONMOBIL EXPLORATION COMPANY

Well : PCU 296-6B1

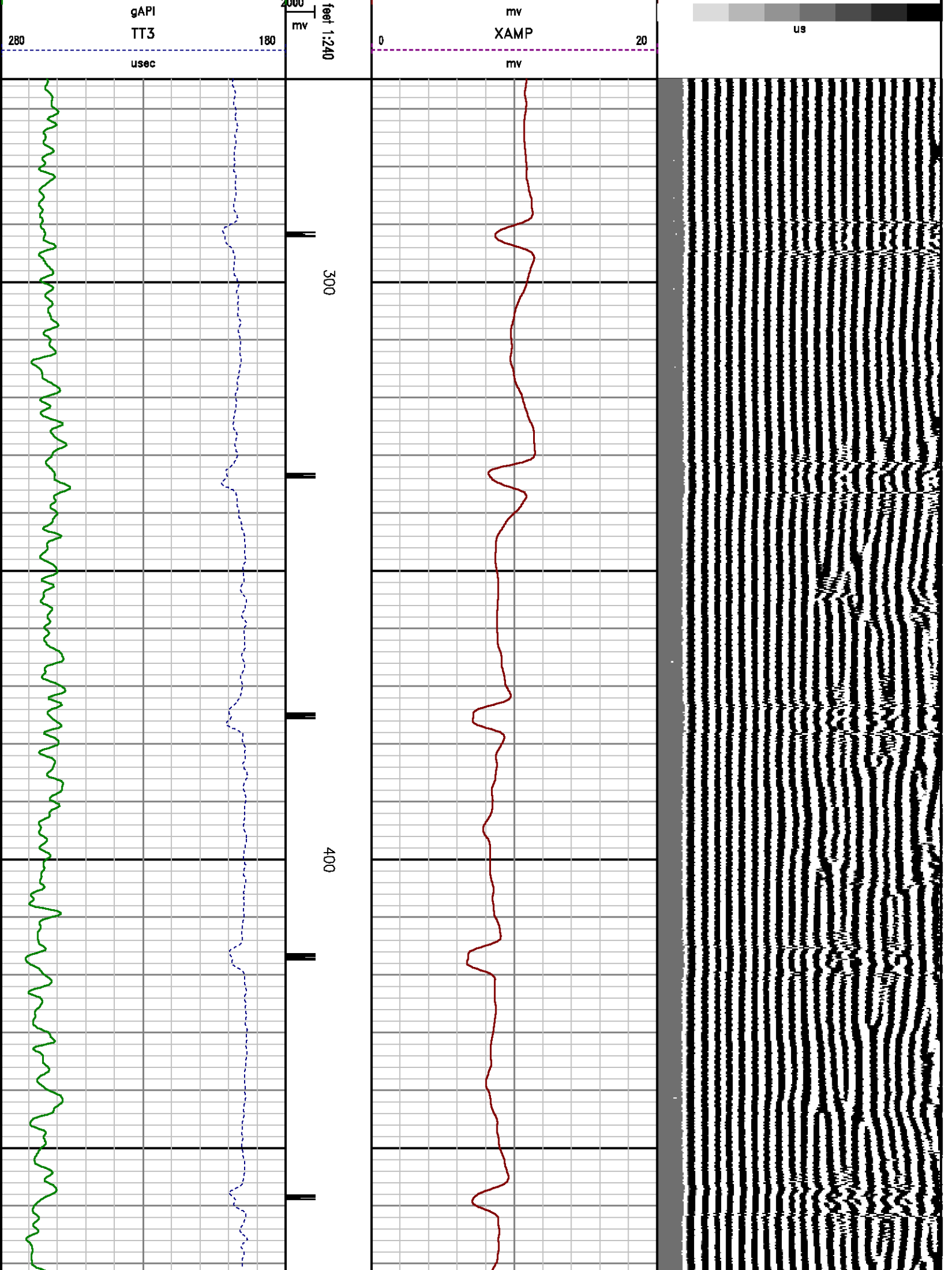
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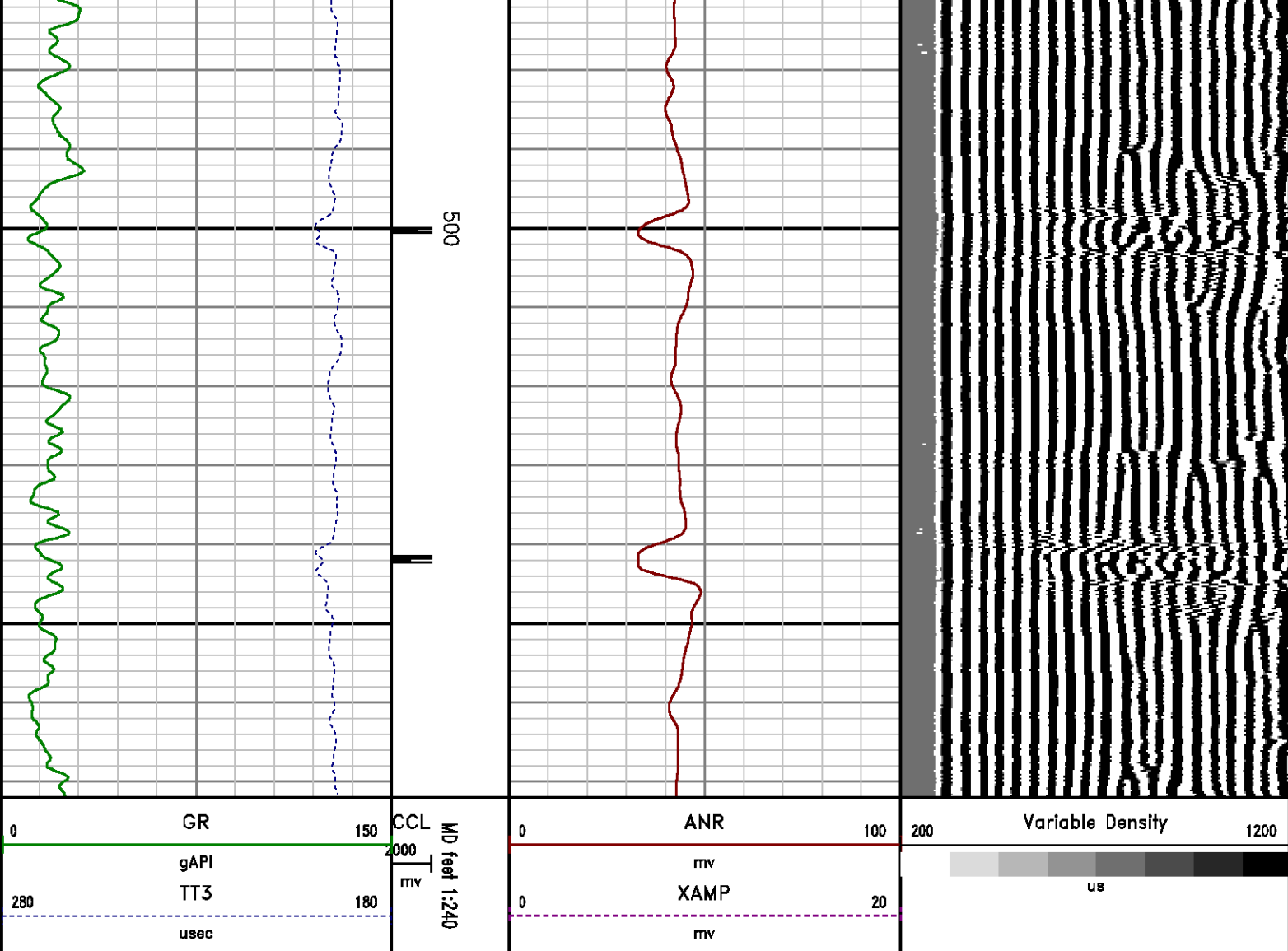
Mode : PlotMgr 5.4.504

Interval : 264.75 - 572.00 feet UP

Created : 11/29/2011 3:17:00 PM

0	GR	150	CCL MD	0	ANR	100	200	Variable Density	1200
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CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\957N28_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Nov 28 14:58:22 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: N28

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	217	216	25	166	25	0.092	100.00	0.12

3 Ft. Receiver	217	216	25	158	25	-2.313	100.00	0.12
5 Ft. Receiver	325	325	25	263	25	-1.738	150.00	0.21
Radial #1	217	216	25	155	25	0.556	100.00	0.12
Radial #2	217	216	25	155	25	2.501	100.00	0.12
Radial #3	217	216	25	155	25	0.856	100.00	0.12
Radial #4	217	216	25	155	25	-0.719	100.00	0.12
Radial #5	215	216	25	155	25	-1.169	100.00	0.12
Radial #6	215	216	25	155	25	-1.851	100.00	0.12
Radial #7	215	216	25	155	25	-2.042	100.00	0.12
Radial #8	217	216	25	155	25	-2.602	100.00	0.12

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\957N29 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Nov 29 15:16:30 2011 TOOL SERIES: 1426XA ASSET: 957 SEQ: N29

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	166	25	0.039	0.000	1.01	100.000
3 Ft. Receiver	195	25	0.374			
5 Ft. Receiver	310	25	0.532			
Radial #1	195	25	0.377			
Radial #2	195	25	0.402			
Radial #3	195	25	0.469			
Radial #4	195	25	0.424			
Radial #5	195	25	0.385			
Radial #6	195	25	0.487			
Radial #7	195	25	0.371			
Radial #8	195	25	0.384			

GAMMA RAY

Calibration File: C:\case\calver\GR\457N28.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Nov 28 15:07:16 2011 TOOL SERIES: 1426XA ASSET: 457N SEQ: 28

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K BA905	71.64	289.73	0.848	60.77	245.77	185.00

Y:\141\281\28_51121 C:\case\calver\GR\457N28.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Mon Nov 28 15:08:56 2011 TOOL SERIES: 1426XA ASSET: 457N SEQ: 28

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K BA905	70.36	283.56	0.848	59.68	240.53	180.85

TOOL DIAGRAM

OTA SHORT CABLE HEAD

CENTRALIZER

Series RALCENT
Mnemonic CENT
Diameter 3.12"
Weight 20.00 lb

PROBE 2 3/4 DUAL RECEIVER RADII

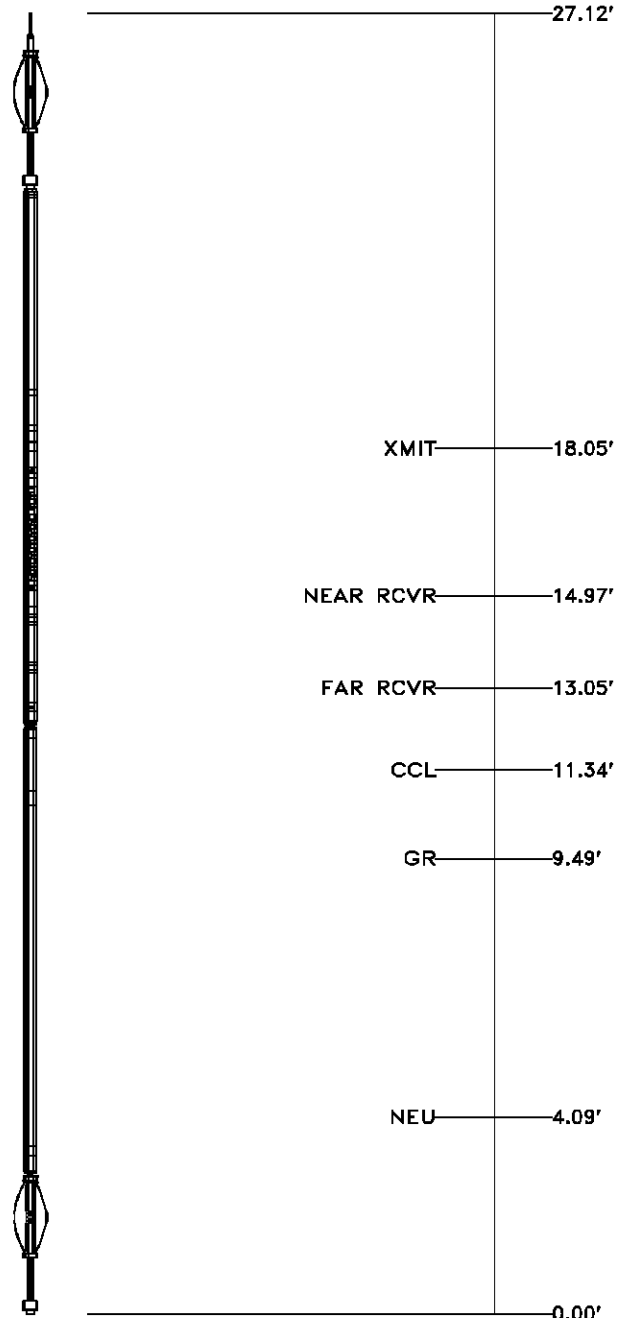
Series 1426XA
Mnemonic PROB
Diameter 2.75"
Length 11.17'
Measure Point 0.75' FAR RCVR
Measure Point 2.67' NEAR RCVR
Measure Point 5.75' XMIT
Temp Rating 350.00 °F
Press Rating 18000.00 PSI

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: 27.12'

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



Baker Atlas



Company	EXXONMOBIL EXPLORATION COMPANY		
Well	PCU 296-6B1		
Field	PICEANCE CREEK UNIT		
County	RIO BLANCO	State	COLORADO

File No:	CH046401
API No:	05103115460000

Location			
SHL: 1241' FEL & 2339' FSL			
BHL: 447' FEL & 1930' FSL			
SEC	6	TWP	2S
		RGE	96W

Elevations	
KB	7420 ft
DF	7419 ft
GL	7394 ft

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