



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company	EXXONMOBIL PRODUCTION COMPANY	
	Well	PCU 296-6 AB ST1	
API No:	Field	PICEANCE CREEK	
0510311479 0100	County	RIO BLANCO	State COLORADO
Location SHL: 485' FSL & 1908' FWL		Other Services RPM	
SEC 6 TWP 2S RGE 96W			
Permanent Datum	GL	Elevation	7393.2 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 7393.2 ft

Date	19 JAN 2011	
Run	ONE	
Service Order	534199	
Depth Driller	13984.8 ft	
Depth Logger	13719 ft	
Bottom Logged Interval	13715 ft	
Top Logged Interval	4369 ft	
Time Started	09:00	
Time Finished	15:00	
Operator Rig Time	6 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.	HL 6670	G.J., COLORADO
Recorded By	J. OSTLER	
Witnessed By	MR. 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
14.75 In	SURFACE	4431 ft
7.875 In	SURFACE	9742 ft
6.125 In	SURFACE	13884.8 ft

Casing Record				
Size	Weight	Grade	From	To
10.75 In	45.5 lbm/ft	J55	SURFACE	4431 ft
7 In	26 lbm/ft	P-110	SURFACE	9742 ft
4.5 In	15.1 lbm/ft	P-110	SURFACE	13884.8 ft

Remarks
THIS IS THE FIRST LOG OF THE WELL
WELL WAS LOGGED WITH 0 PSI AT THE WELL HEAD
SHORT JOINT TOPS:
8012'
9014'
10014'
11017'

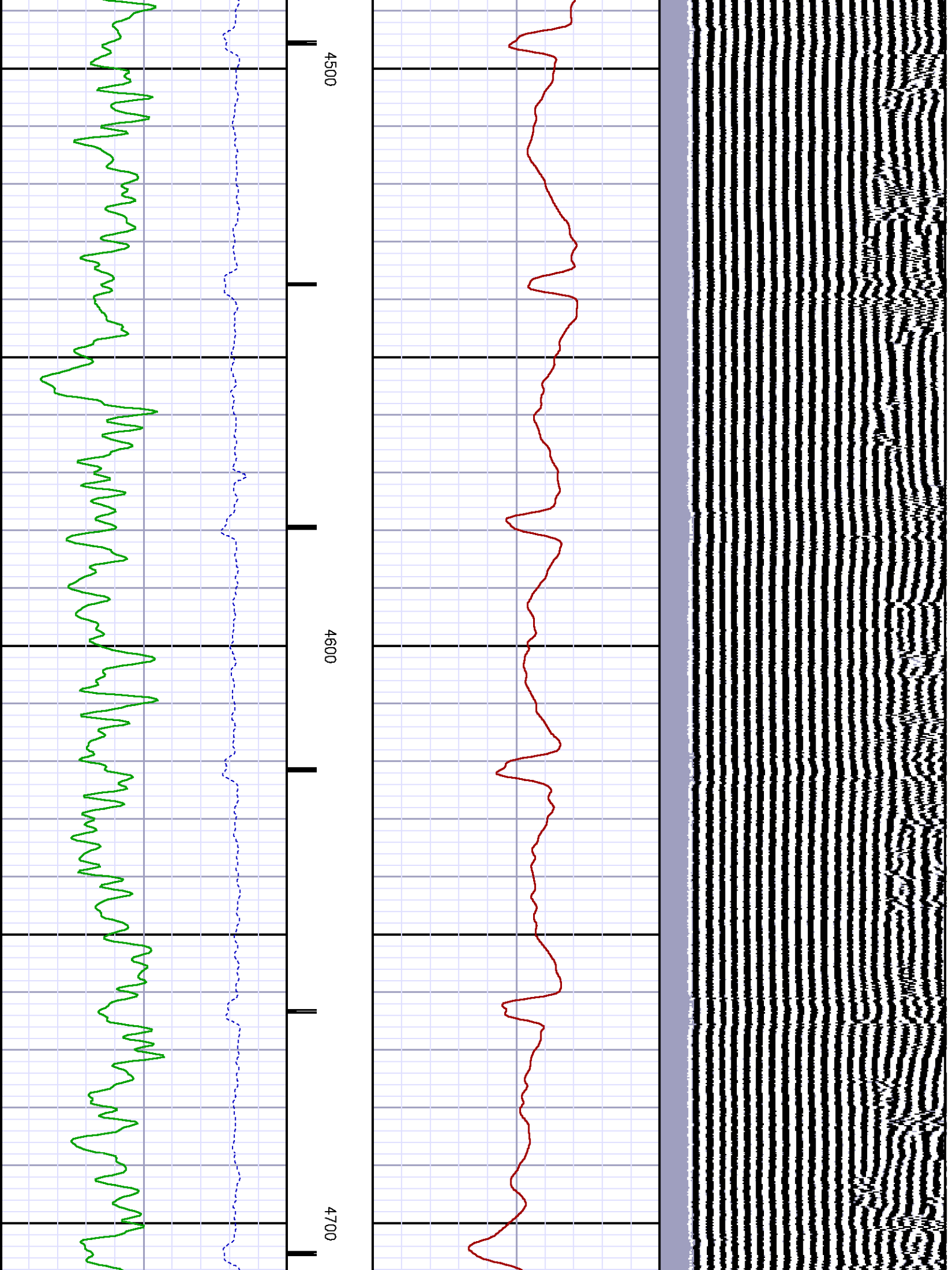
Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10154957	CENTRALIZED
1	1	GR/CCL/NEU	2459XA	10218504	CENTRALIZED

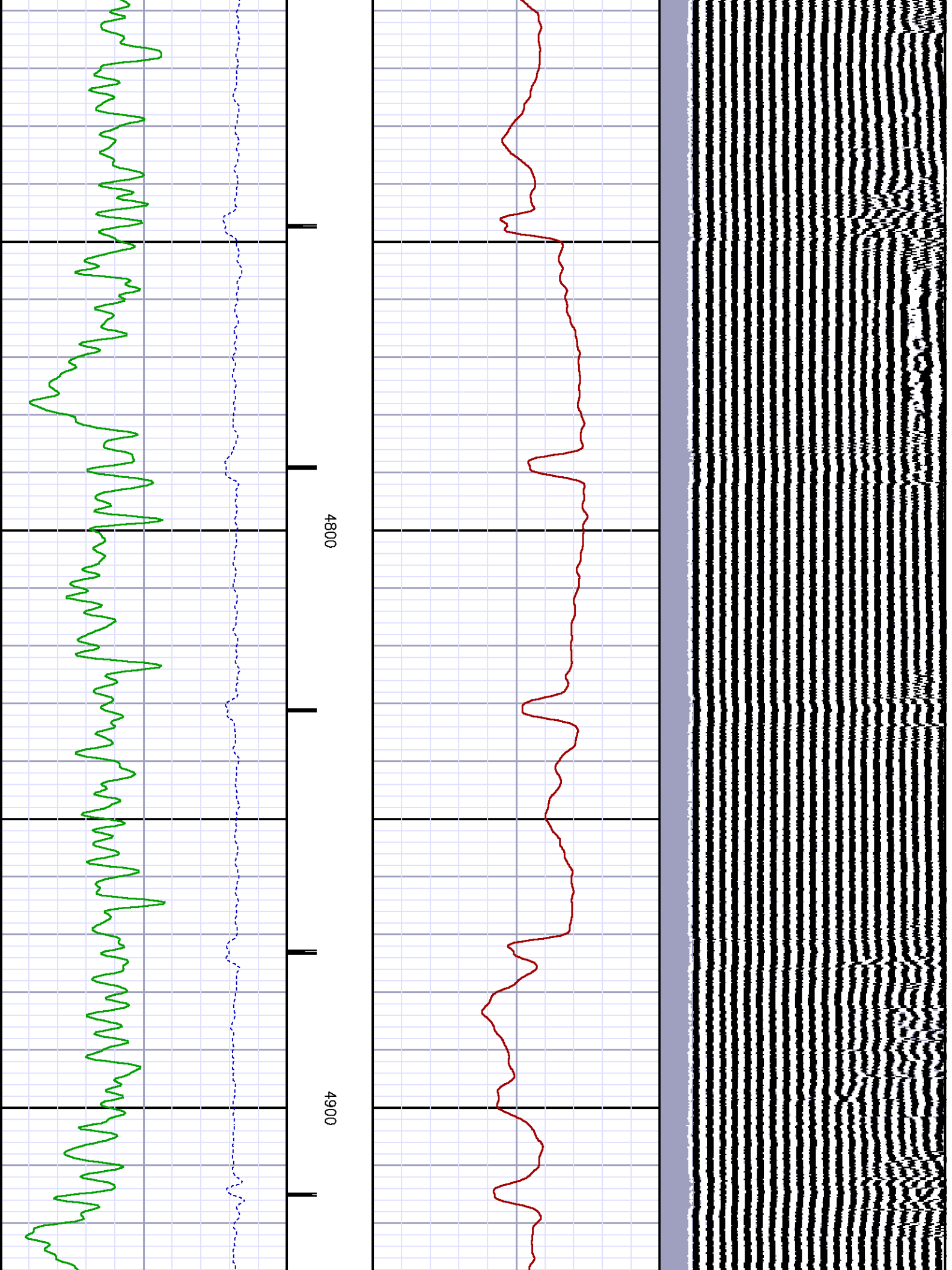
***MAIN SECTION
PRIMARY PRESENTATION
0 PSI***

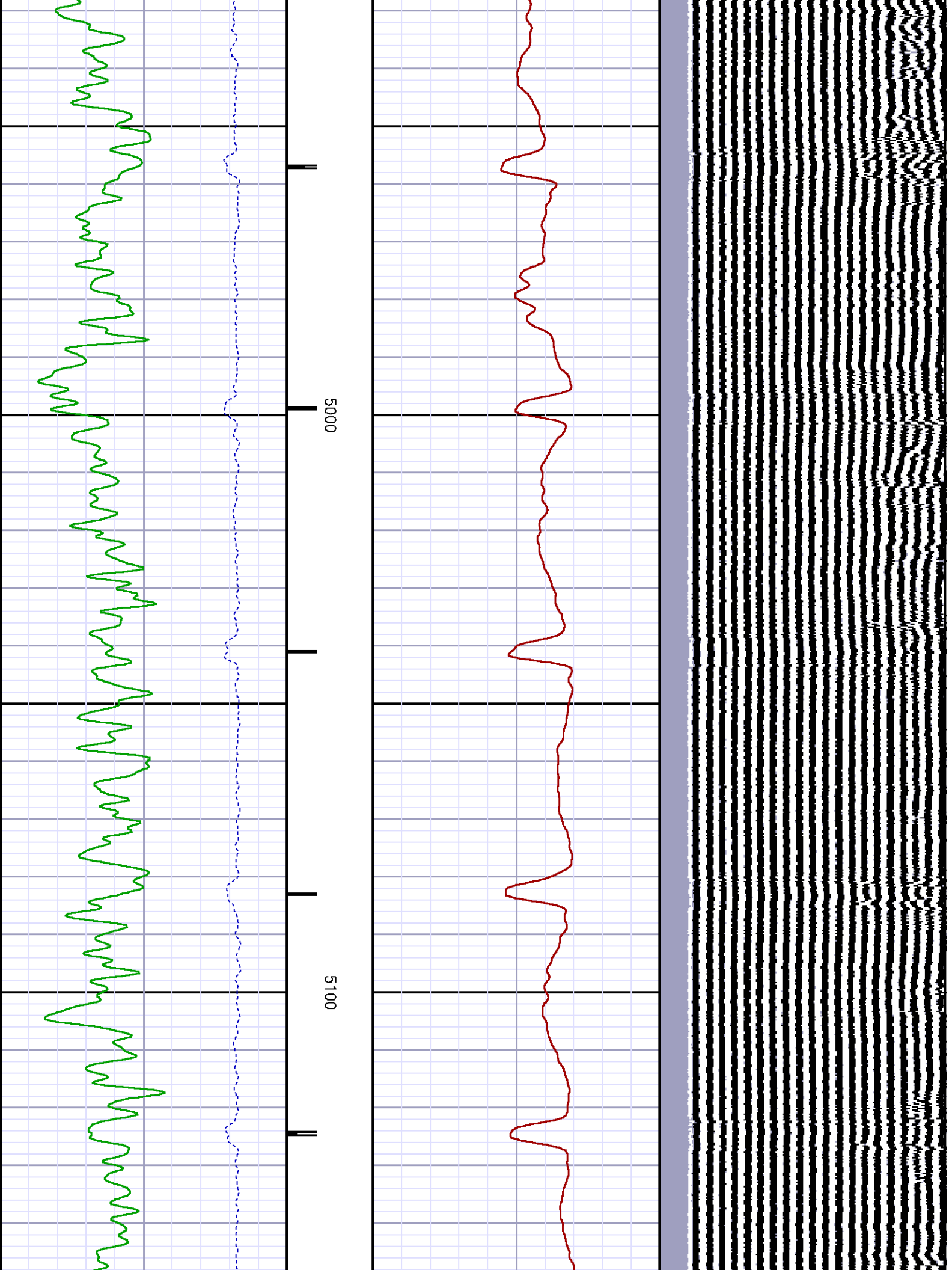
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	302.407	usec	3322.250	13750.000
RAL	Amp Gate Start Near	192.925	usec	3322.250	13750.000
RAL	Amp Gate Start Radial	194.019	usec	3322.250	13750.000
RAL	Amp Gate Width Far	25.000	usec	3322.250	13750.000
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RAL	casing od	4.500	inches	3322.250	13750.000
RAL	casing wt	15.100	lbm/ft	3322.250	13750.000
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RAL	FB Thresh Near	4.000	mv	3322.250	13750.000
RAL	FB Thresh Radial	4.000	mv	3322.250	13750.000
RAL	Fluid Travel Time	200.000	usec/ft	3322.250	13749.902

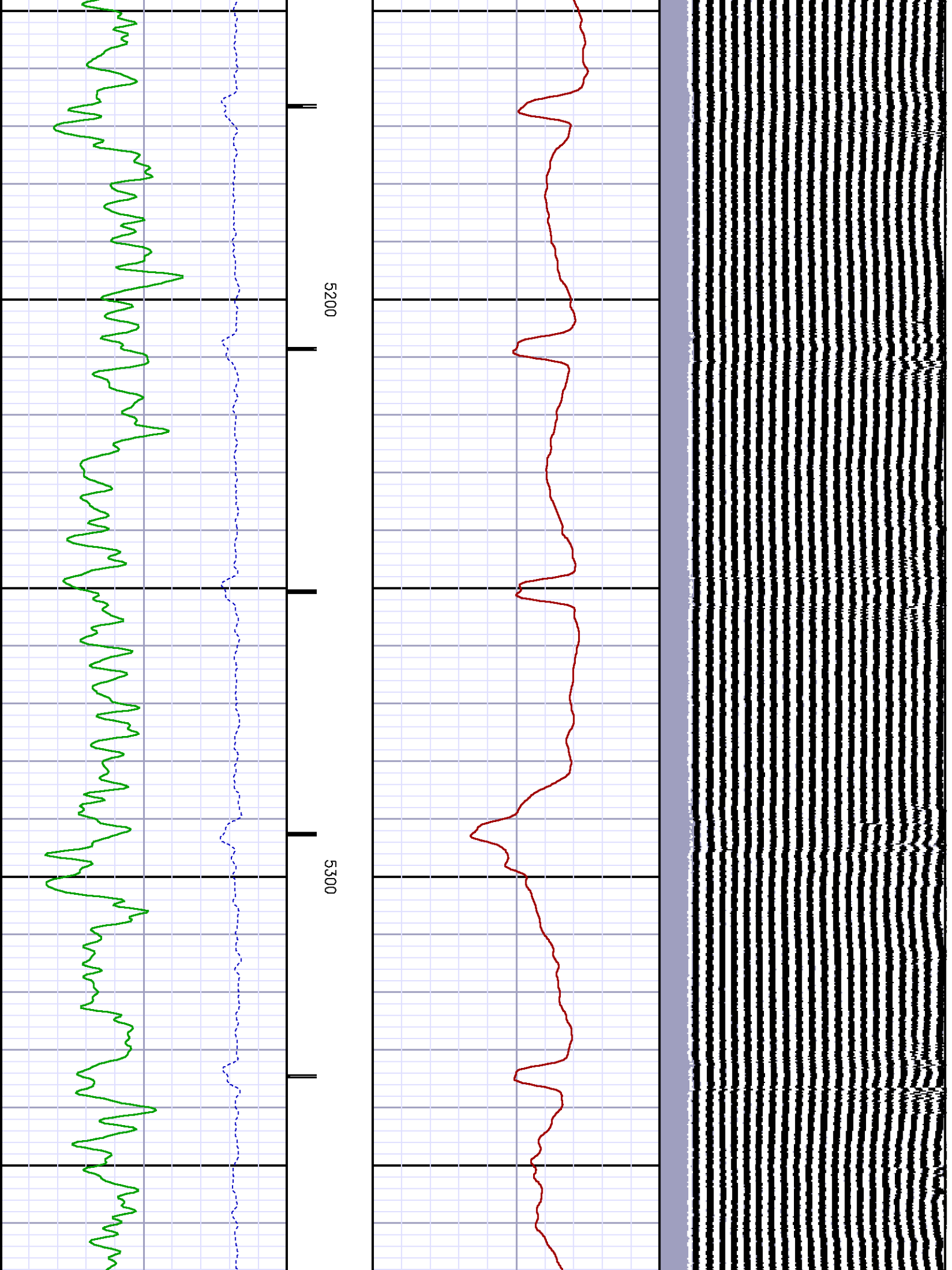
DEPTH OFFSETS
(for Acquired Curves)

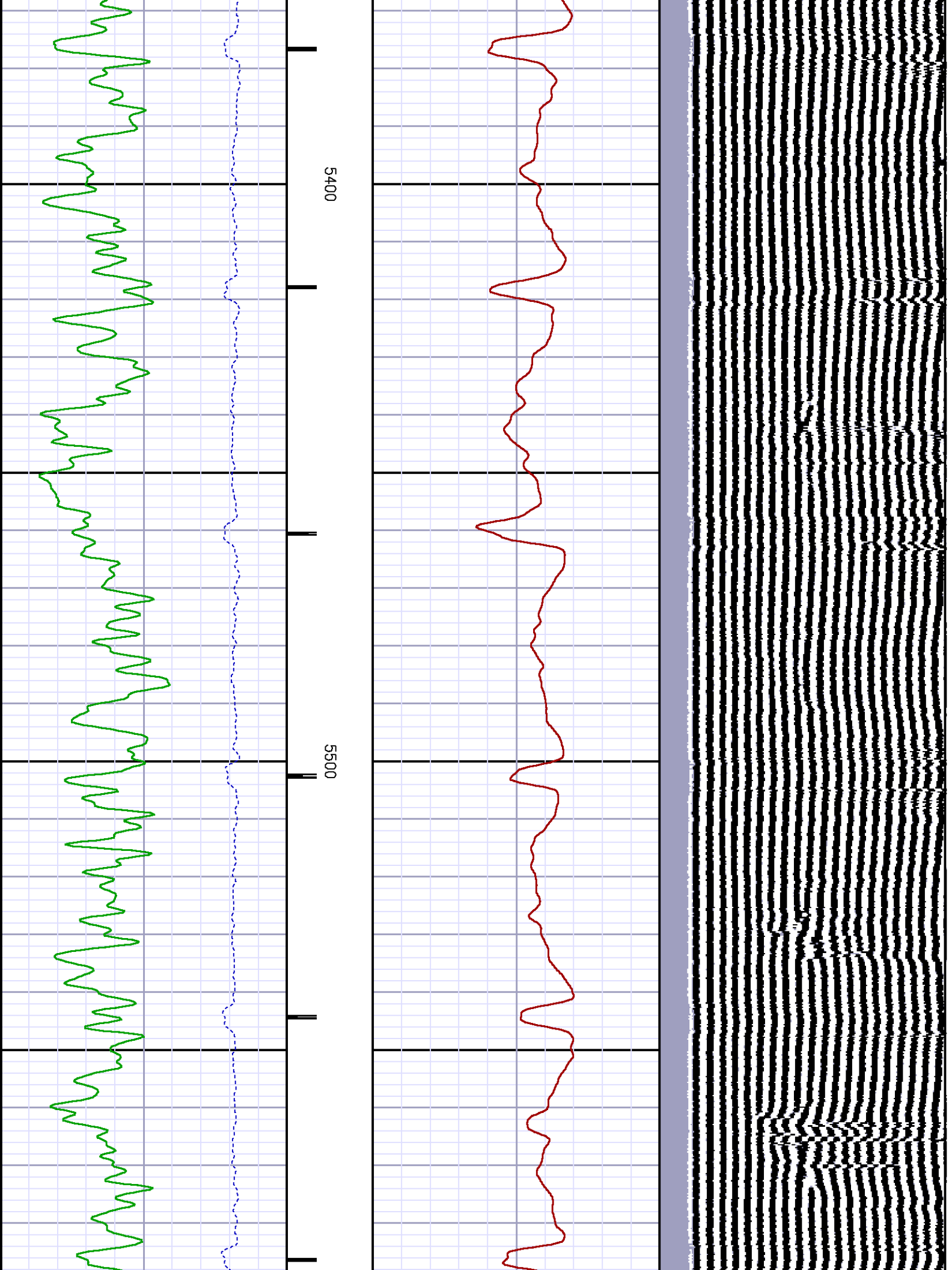
SERIES DEPTH OFFSET ACQUIRED CURVES

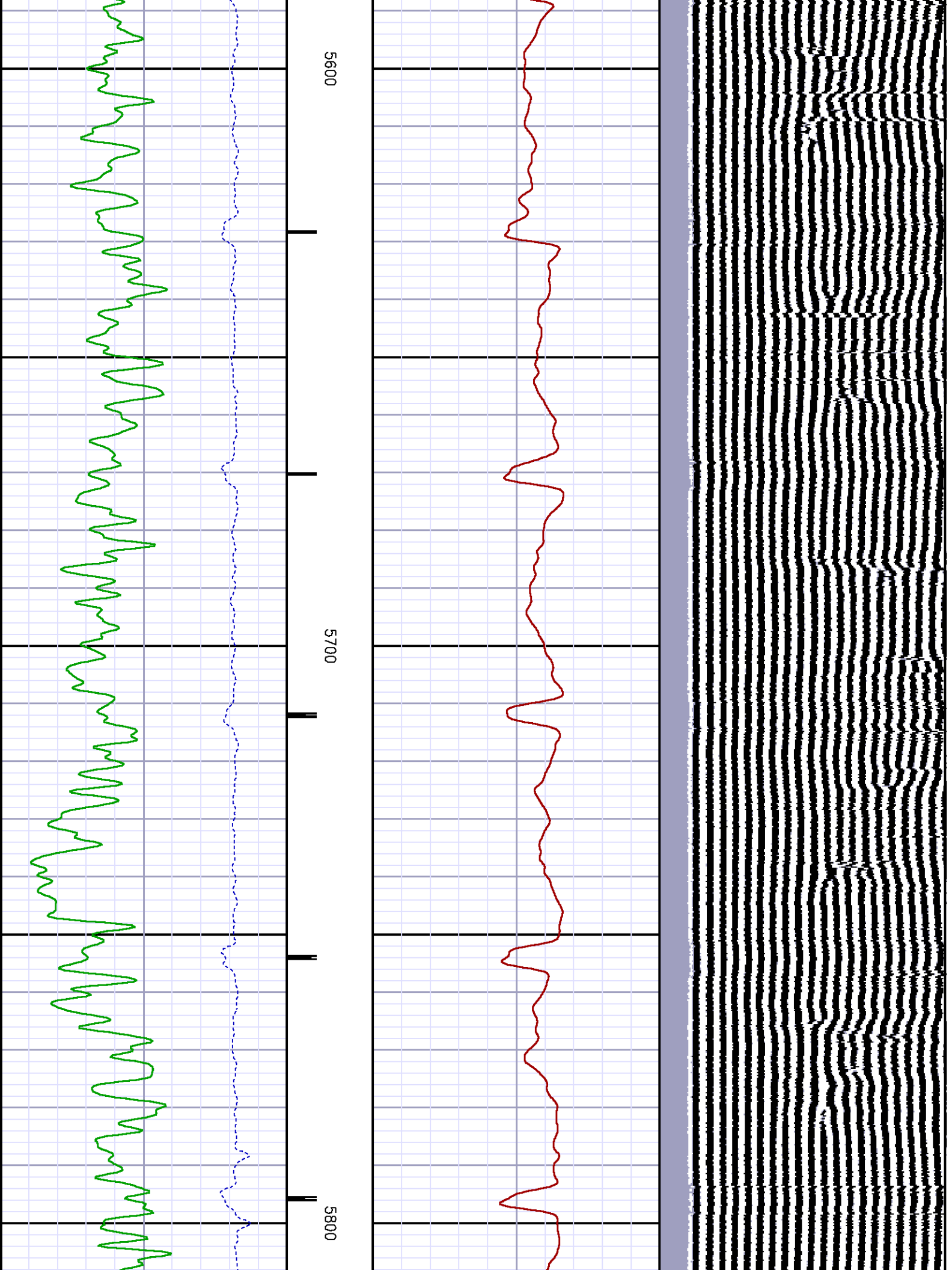


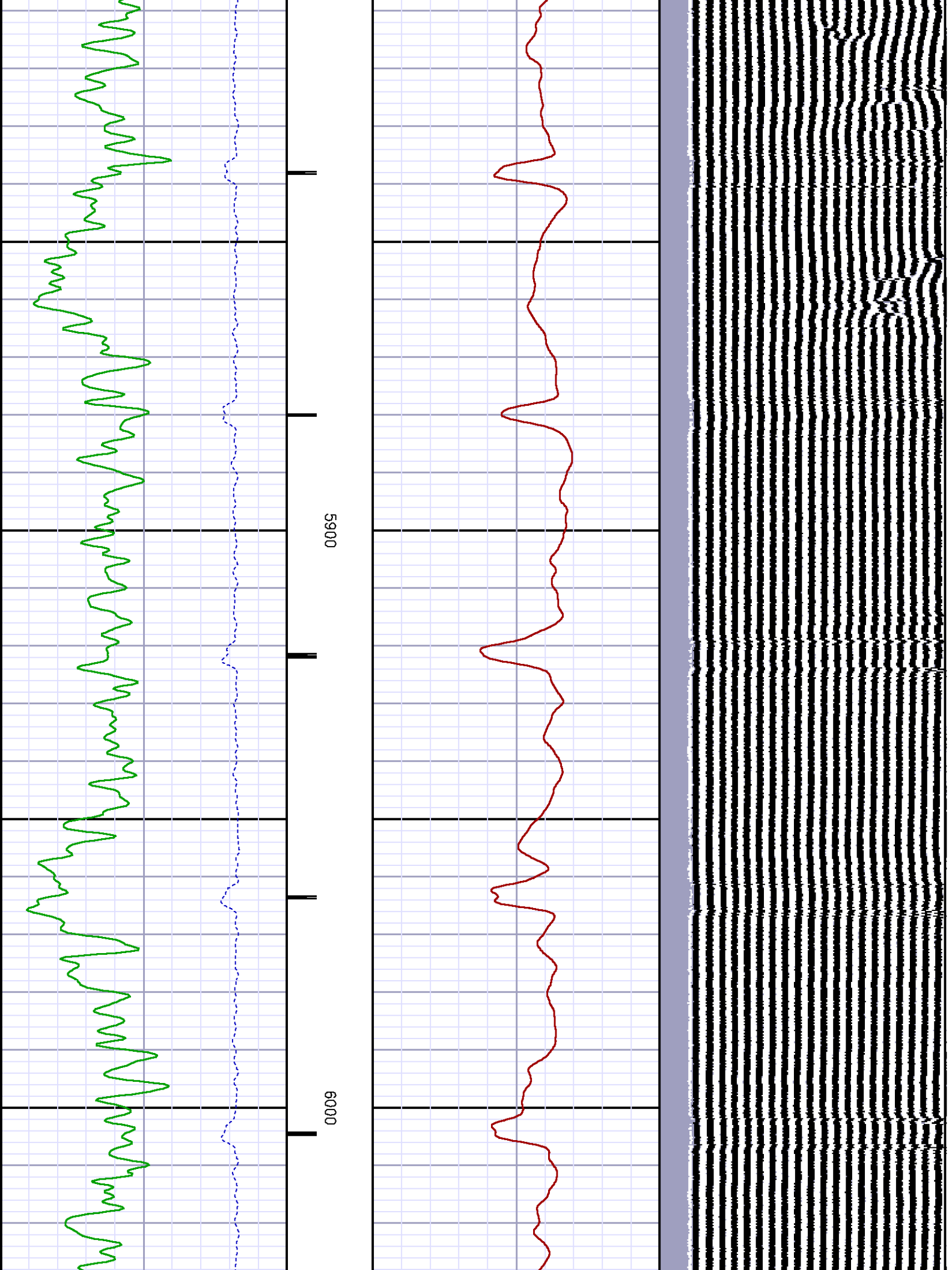


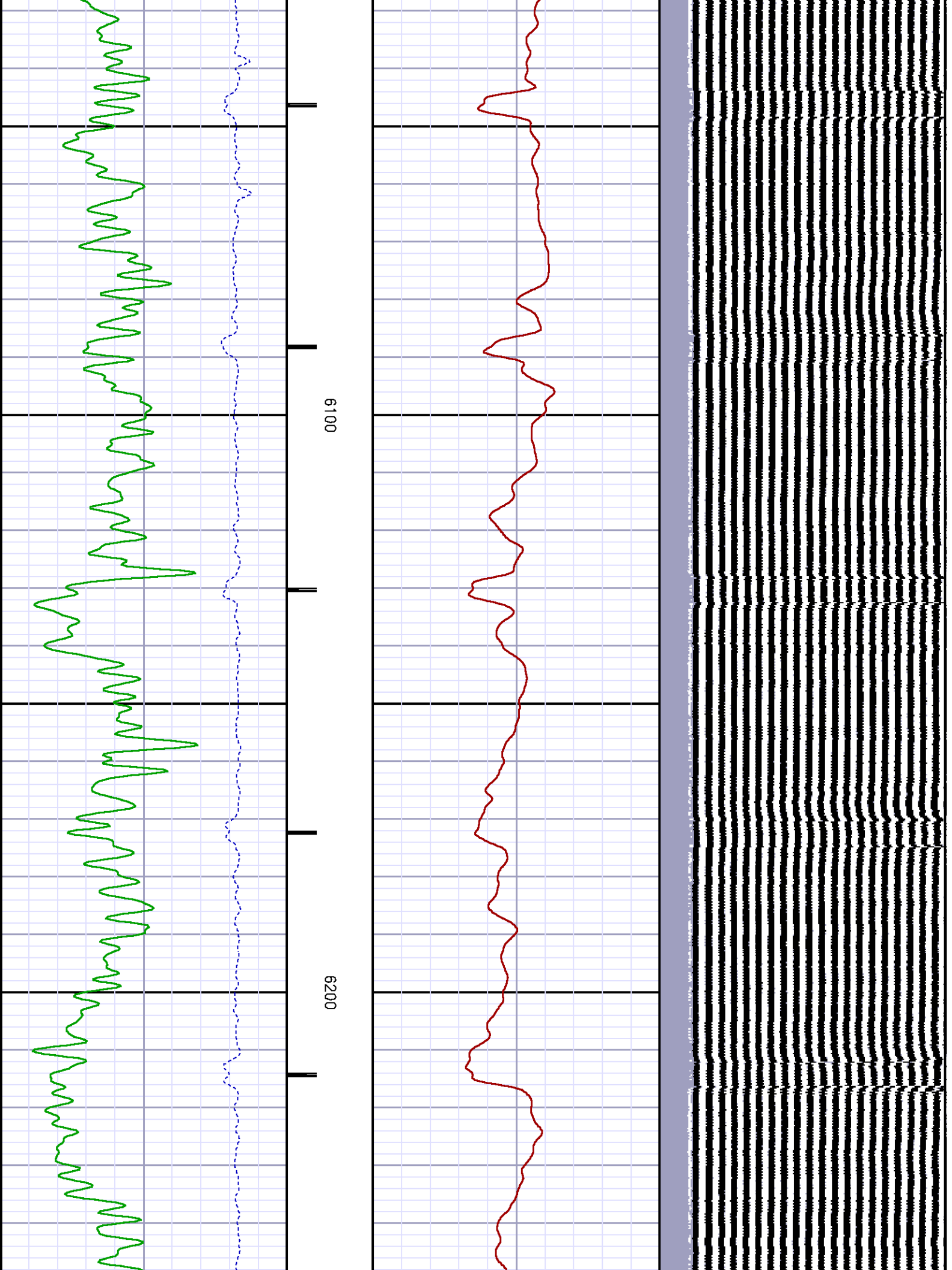


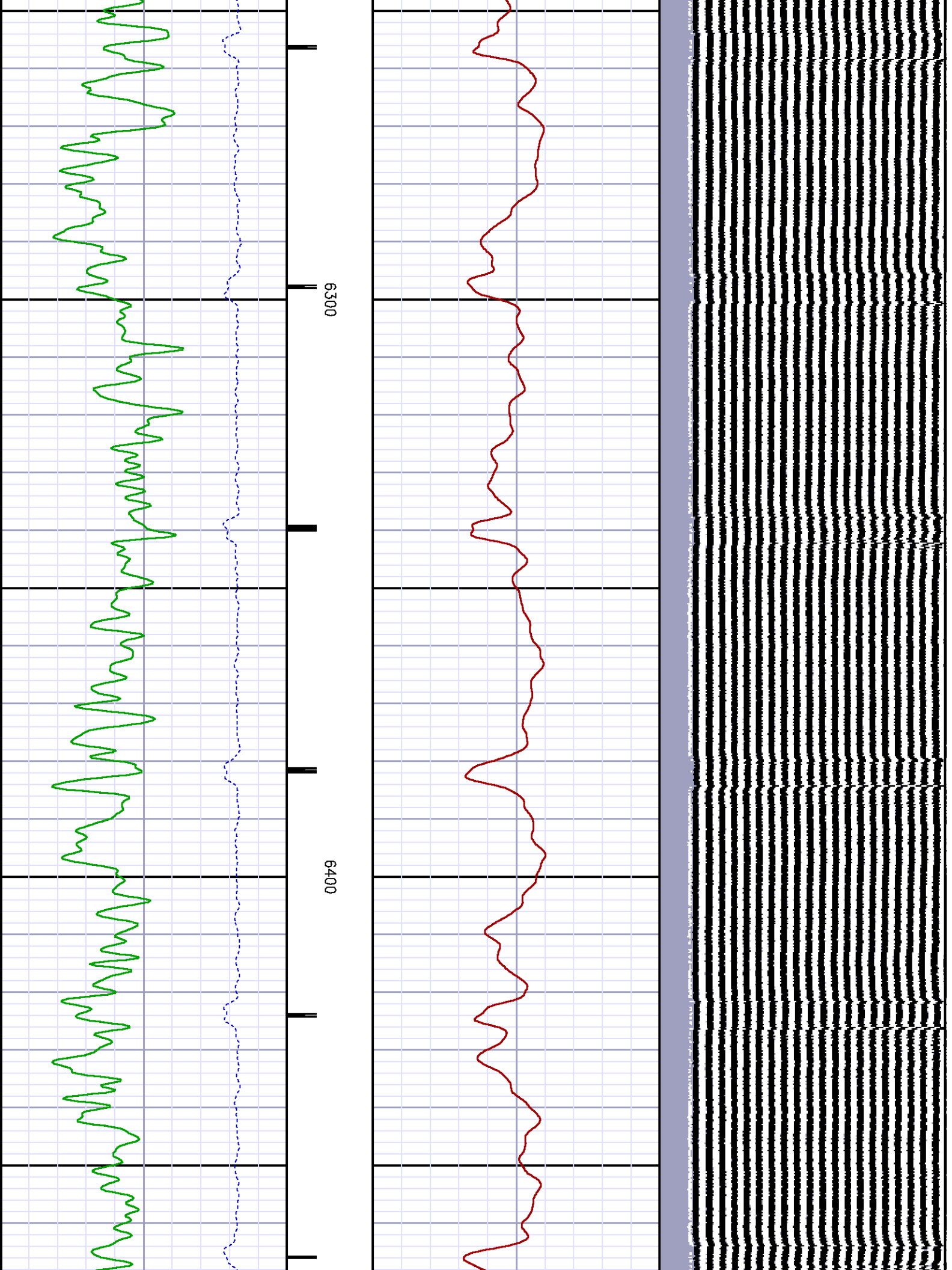


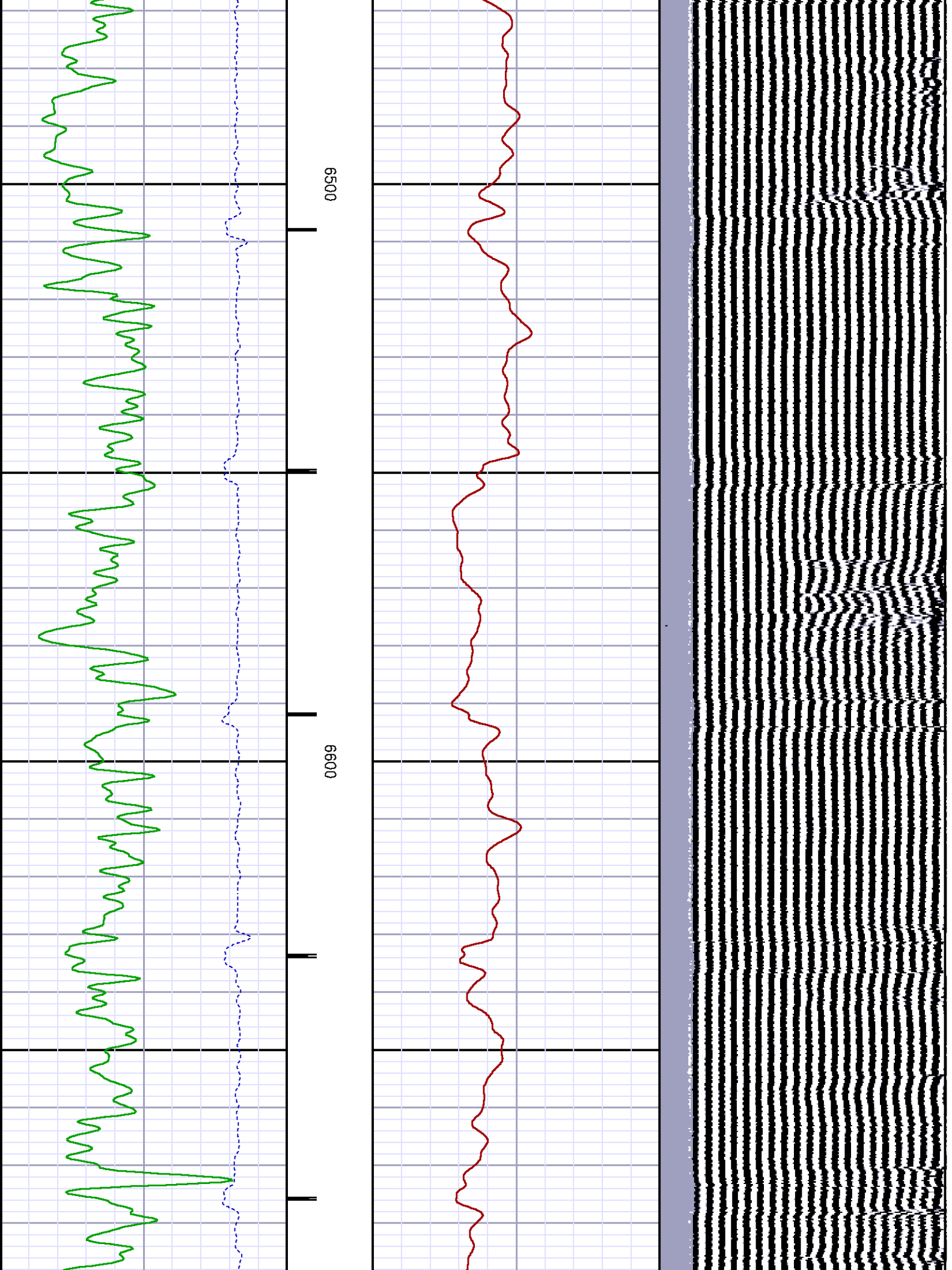


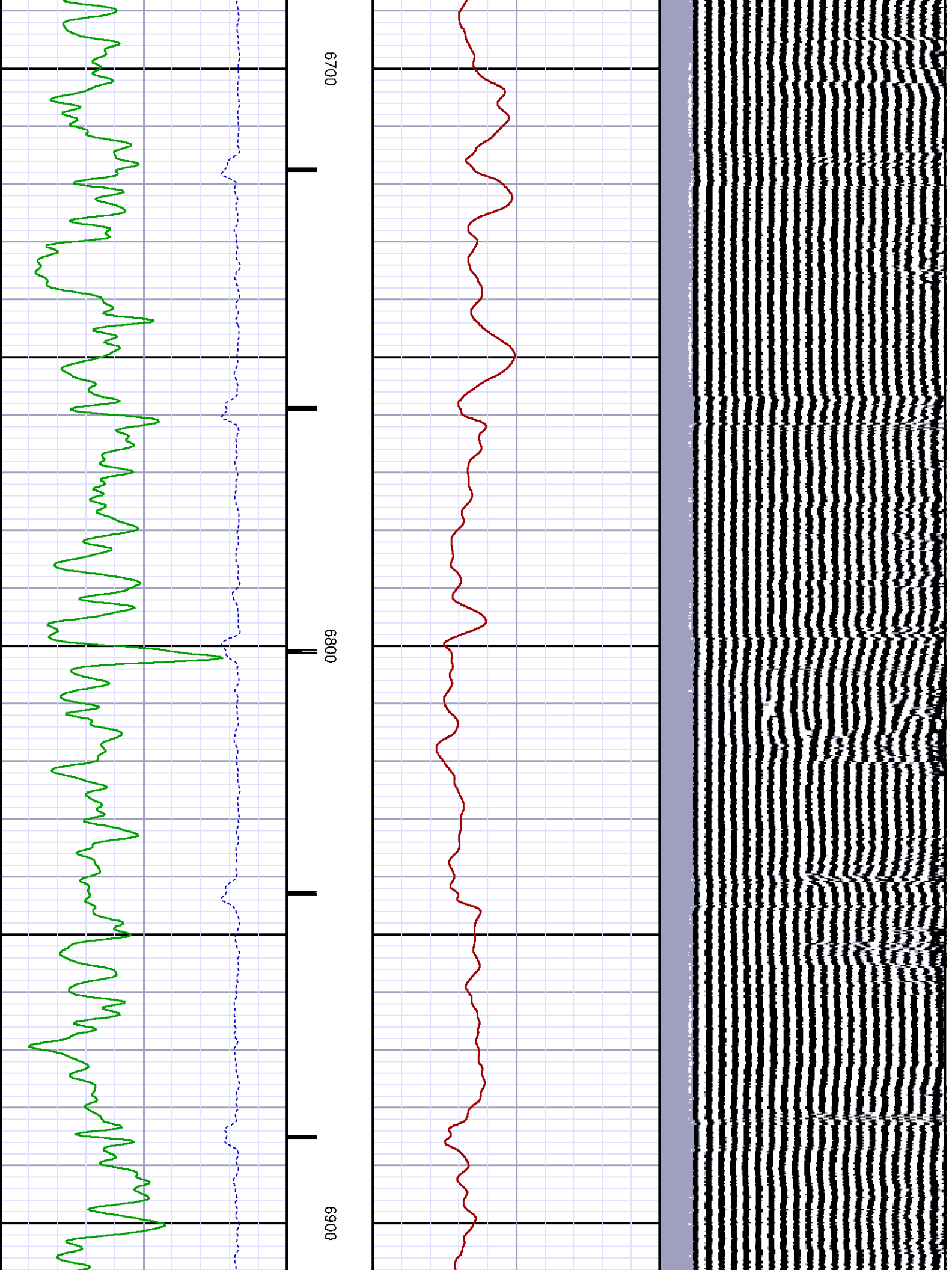


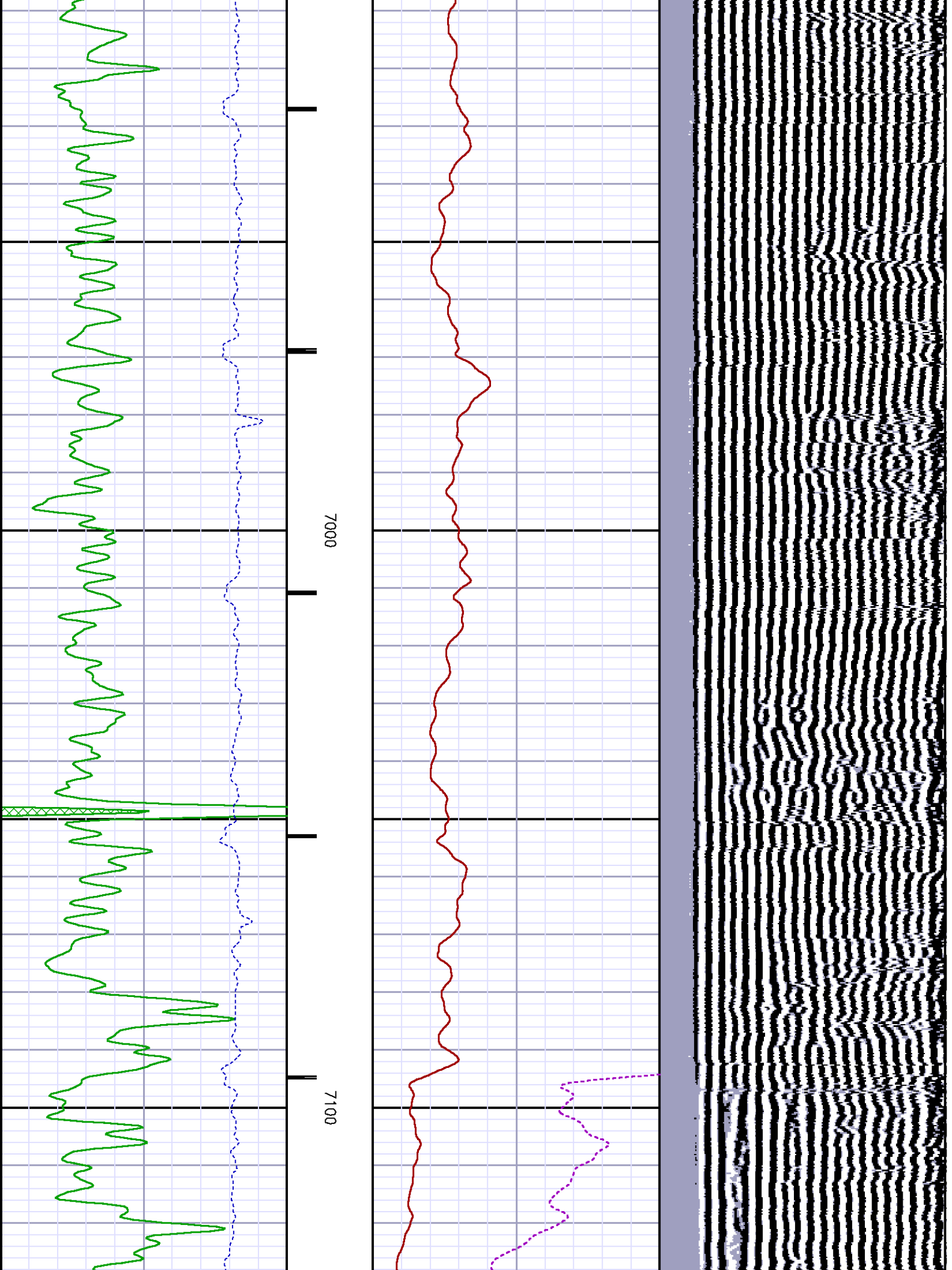


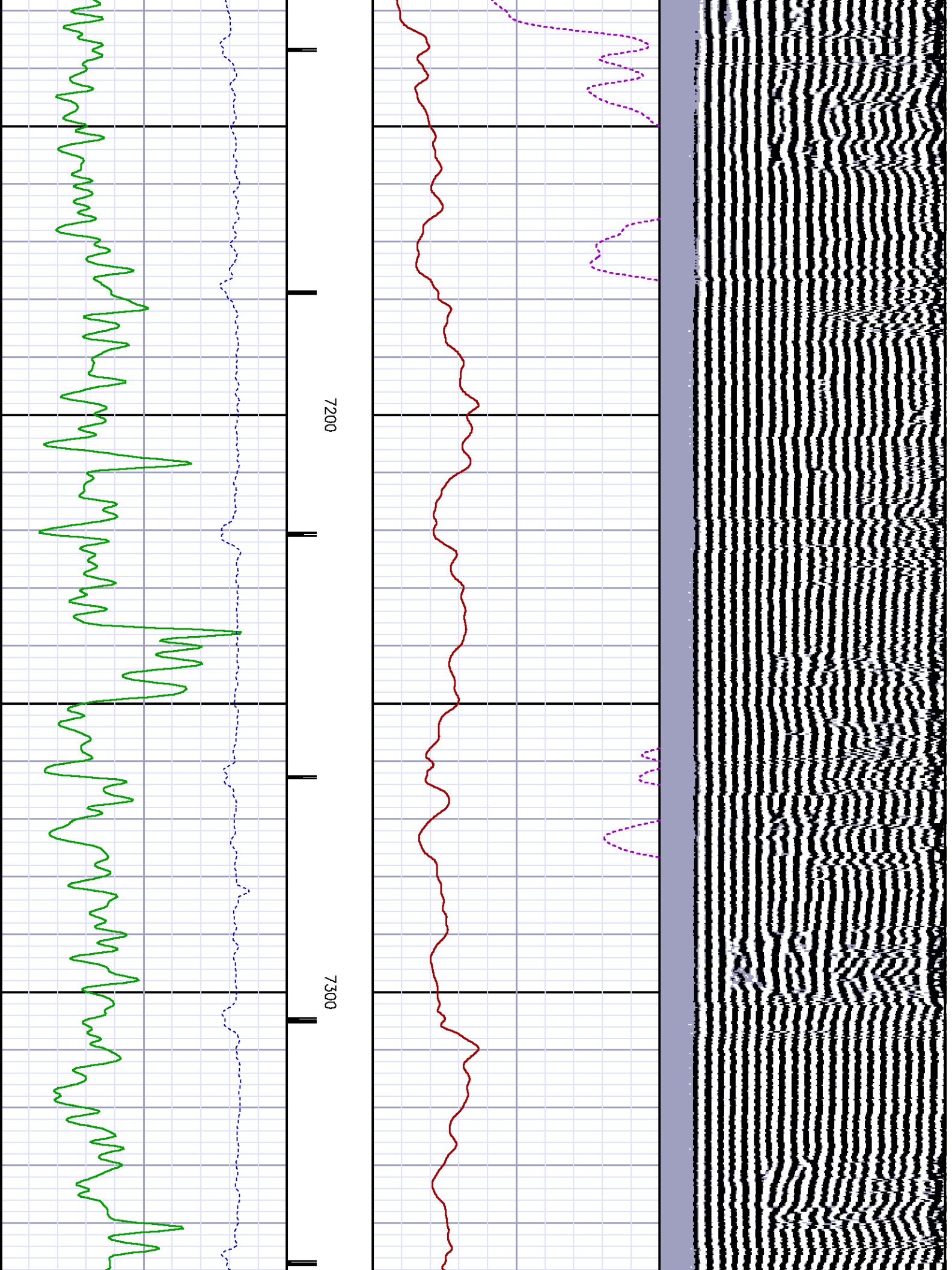


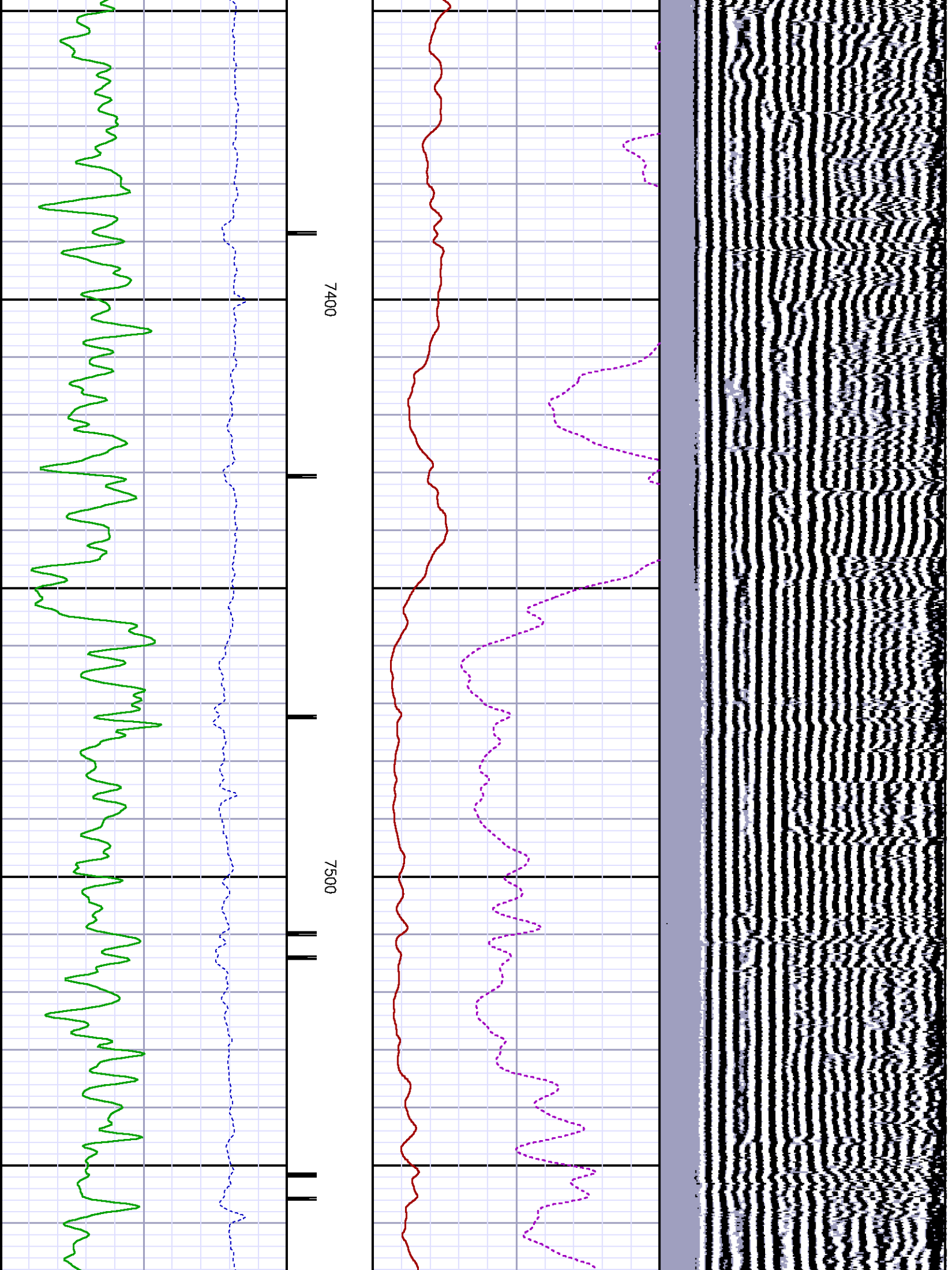


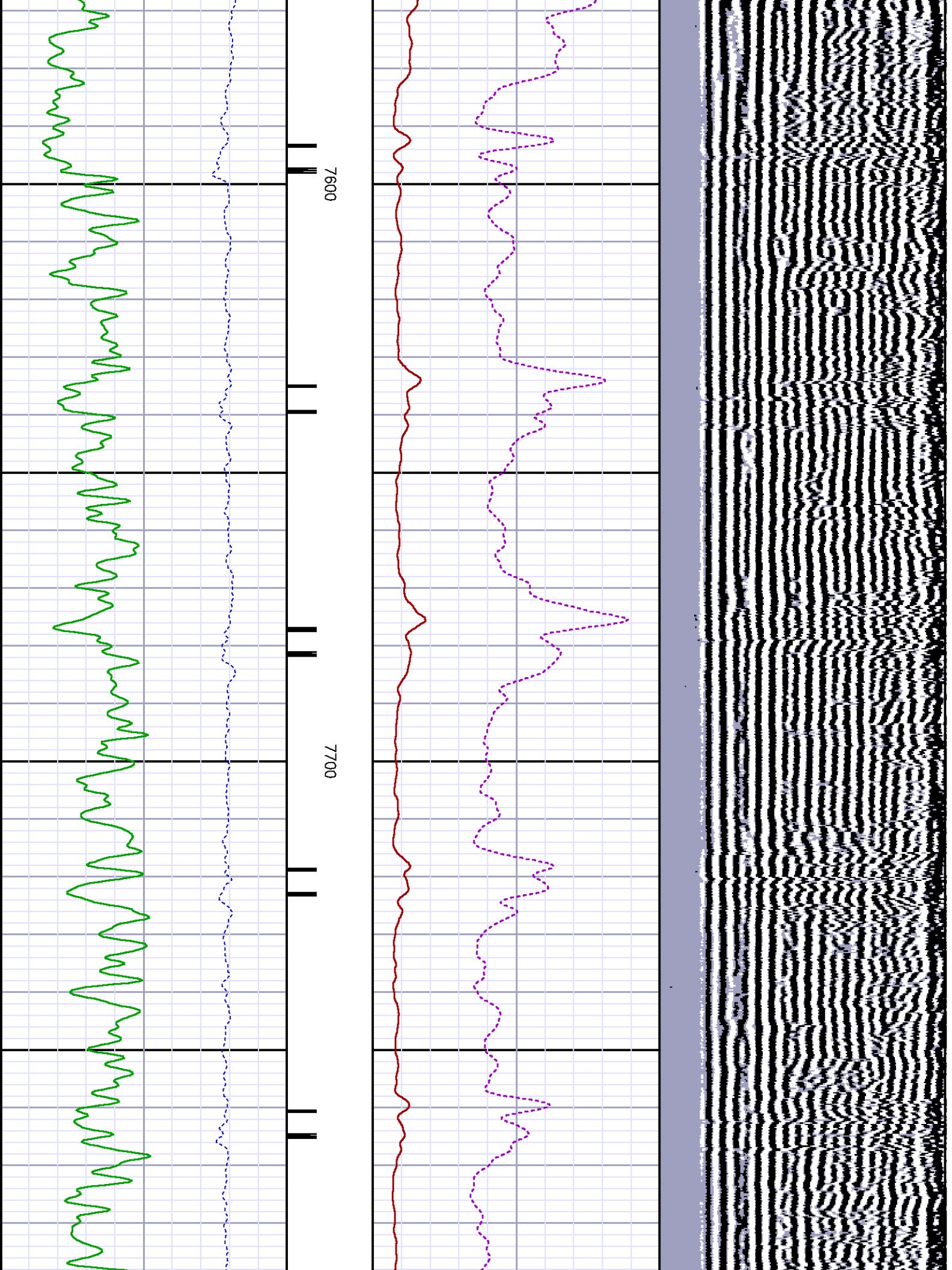


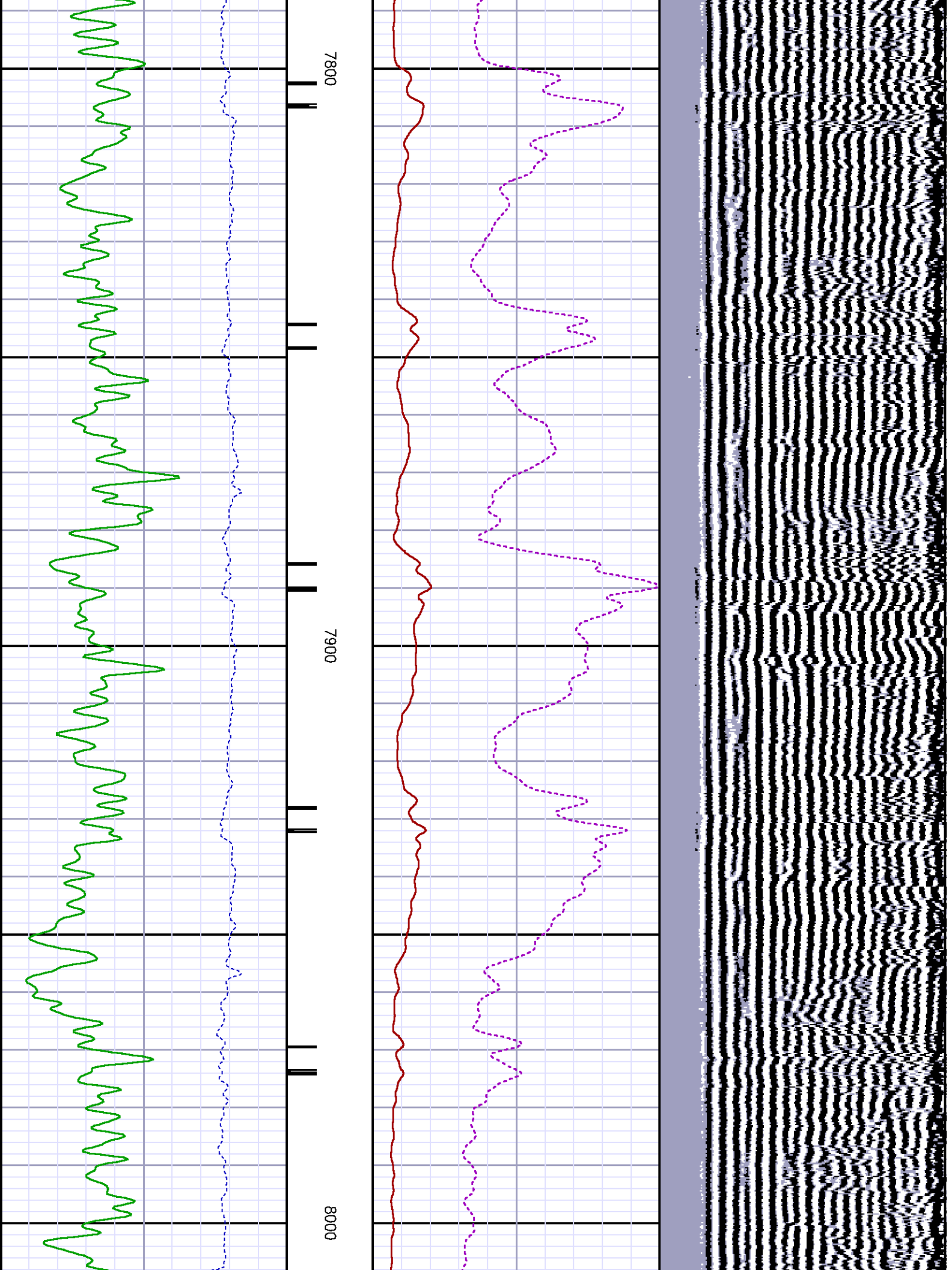


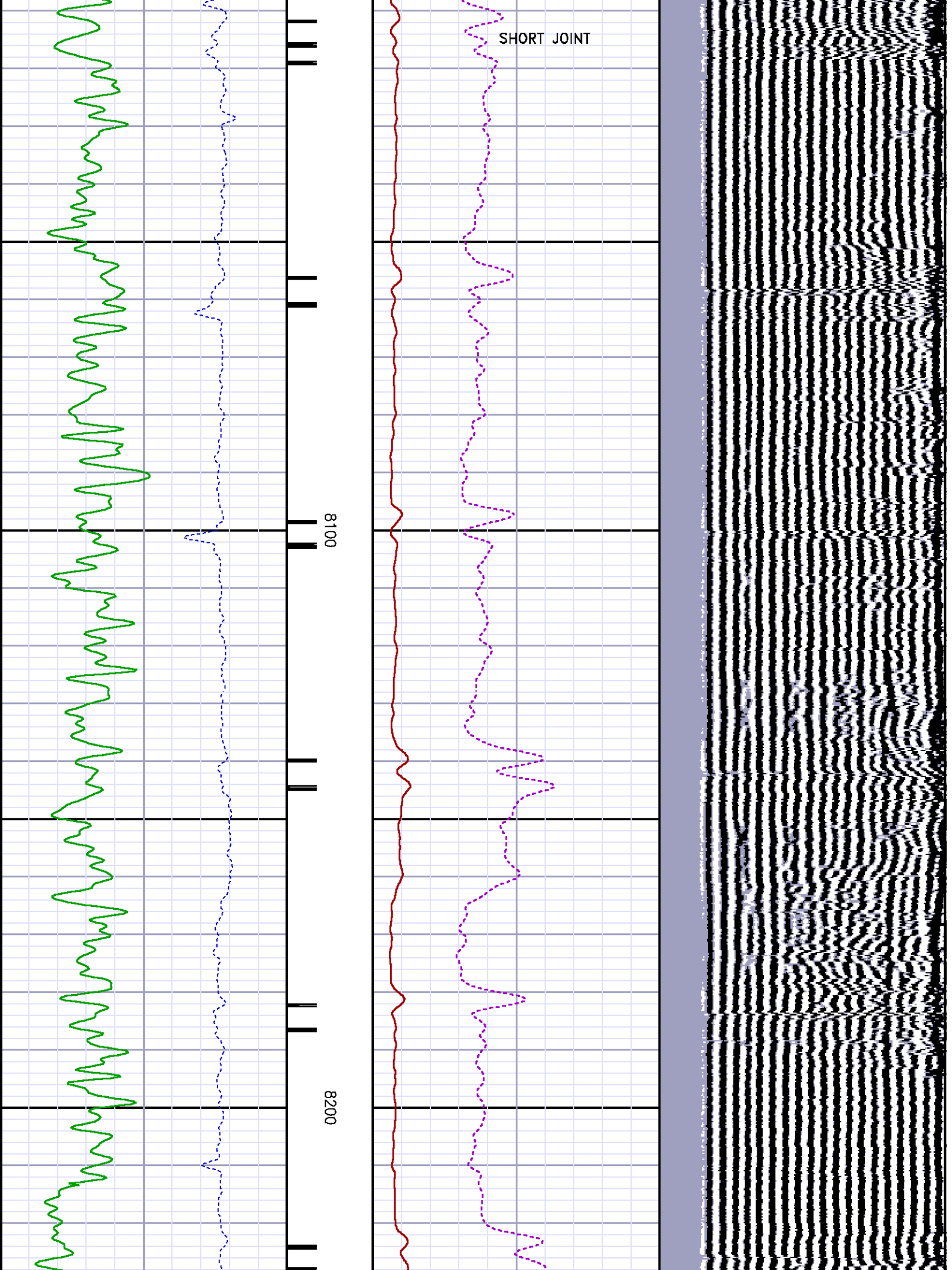


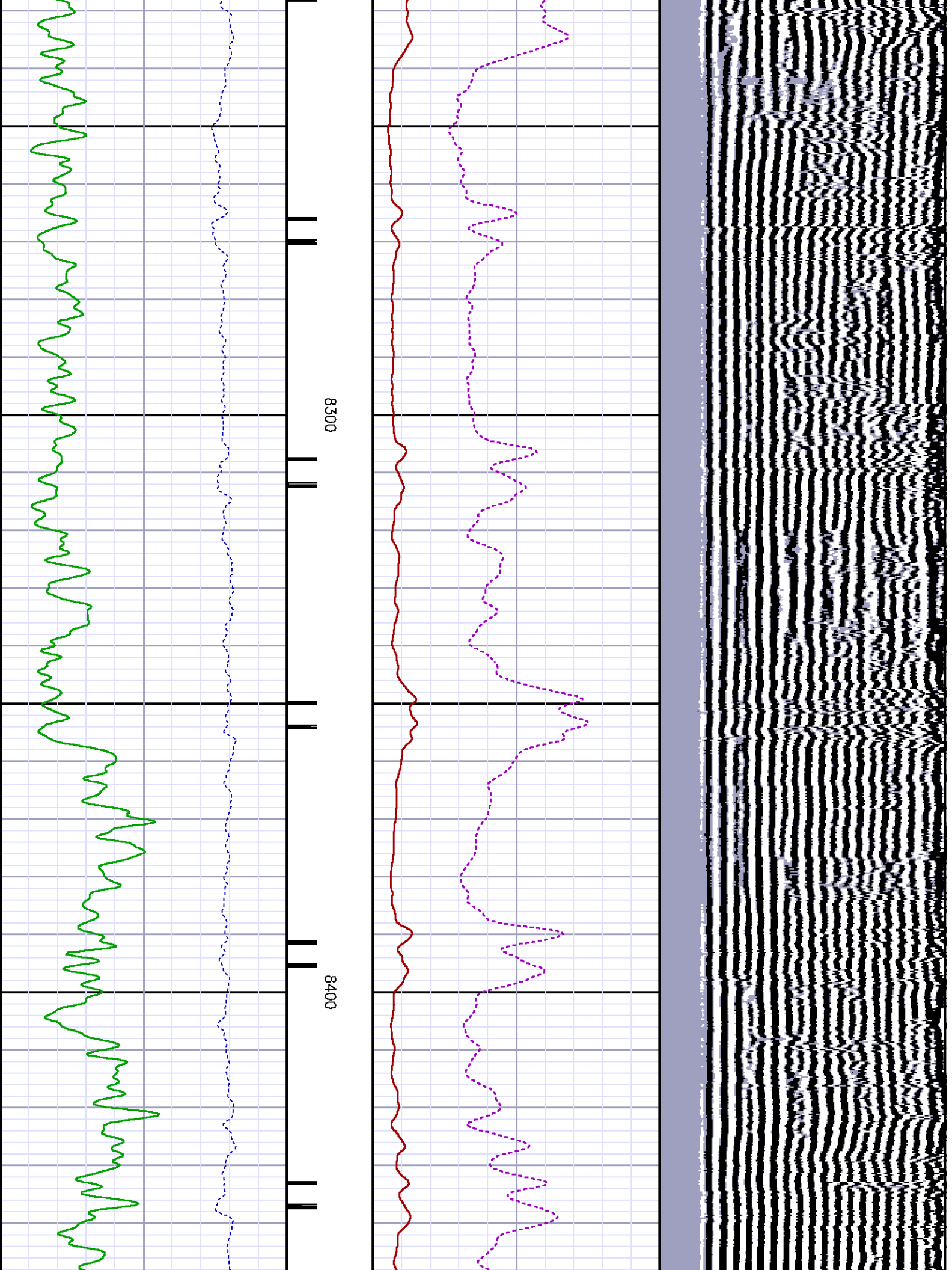


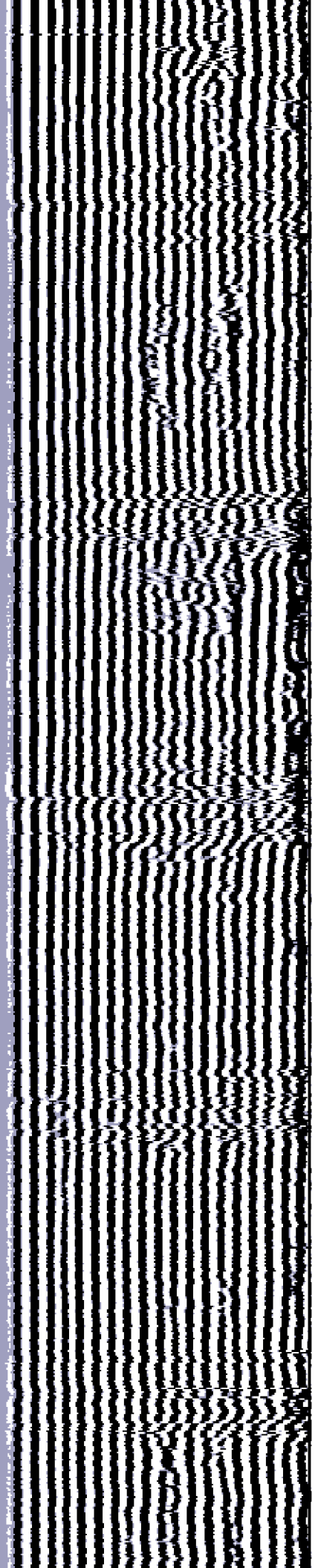










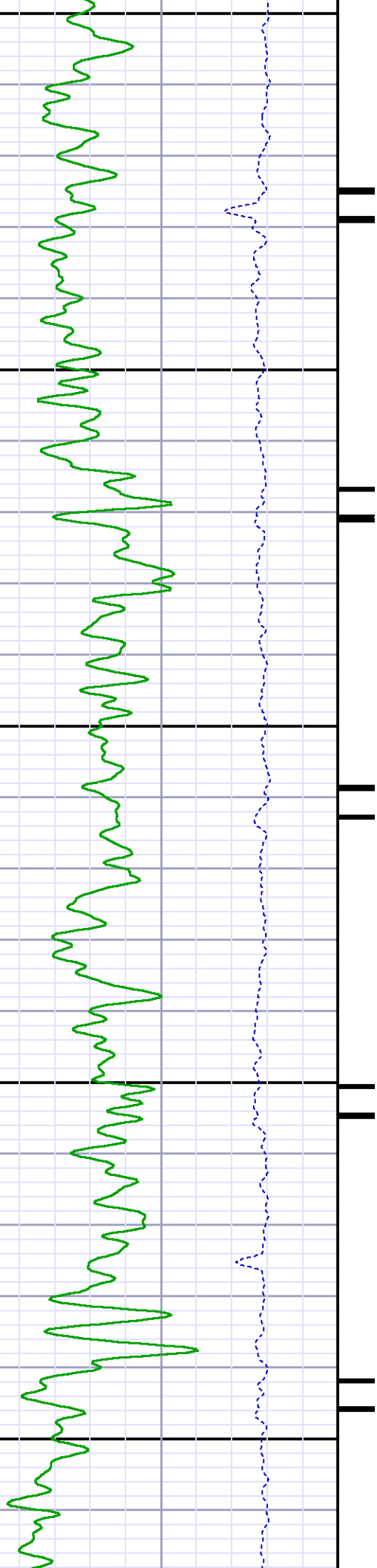


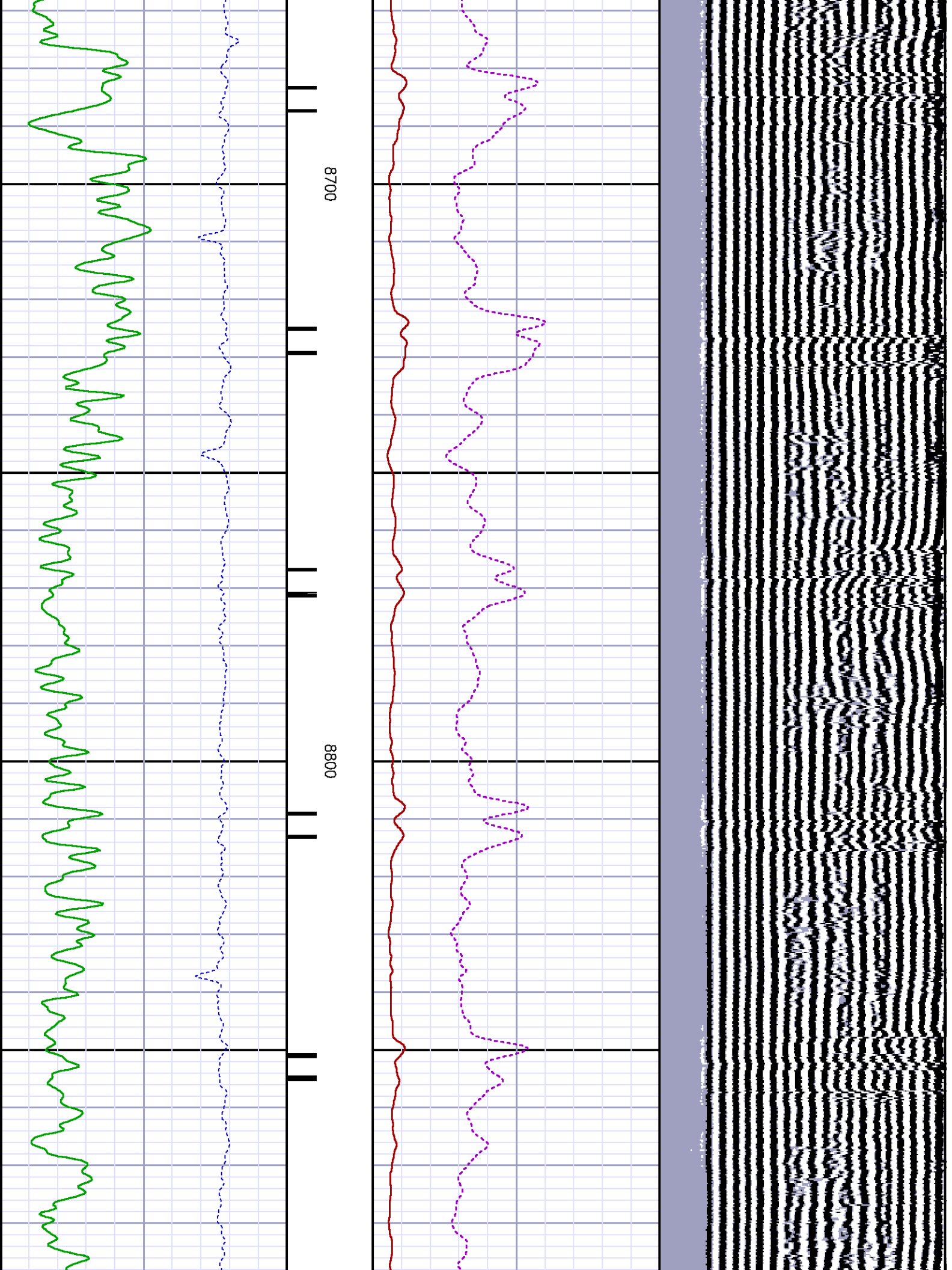
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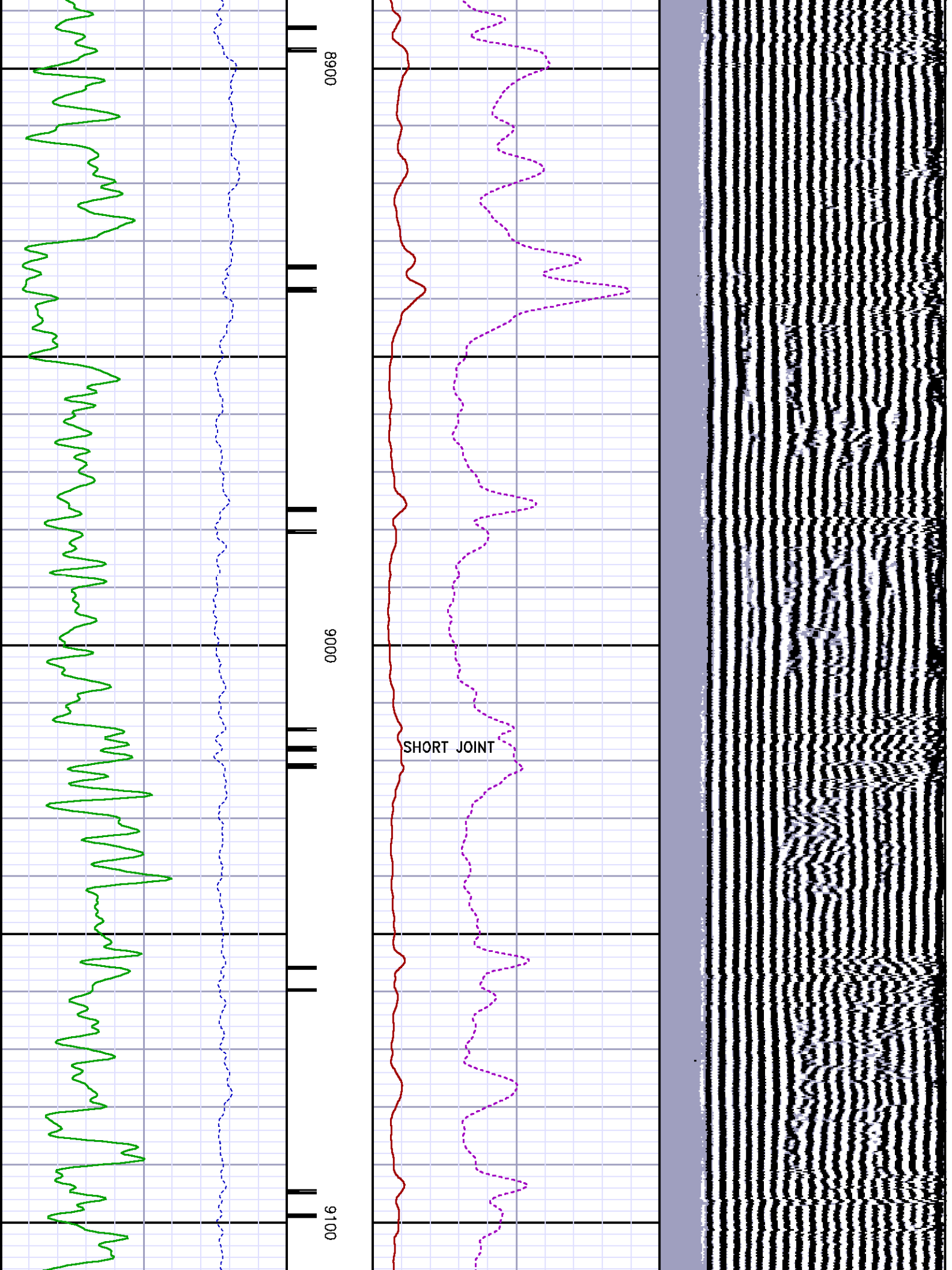


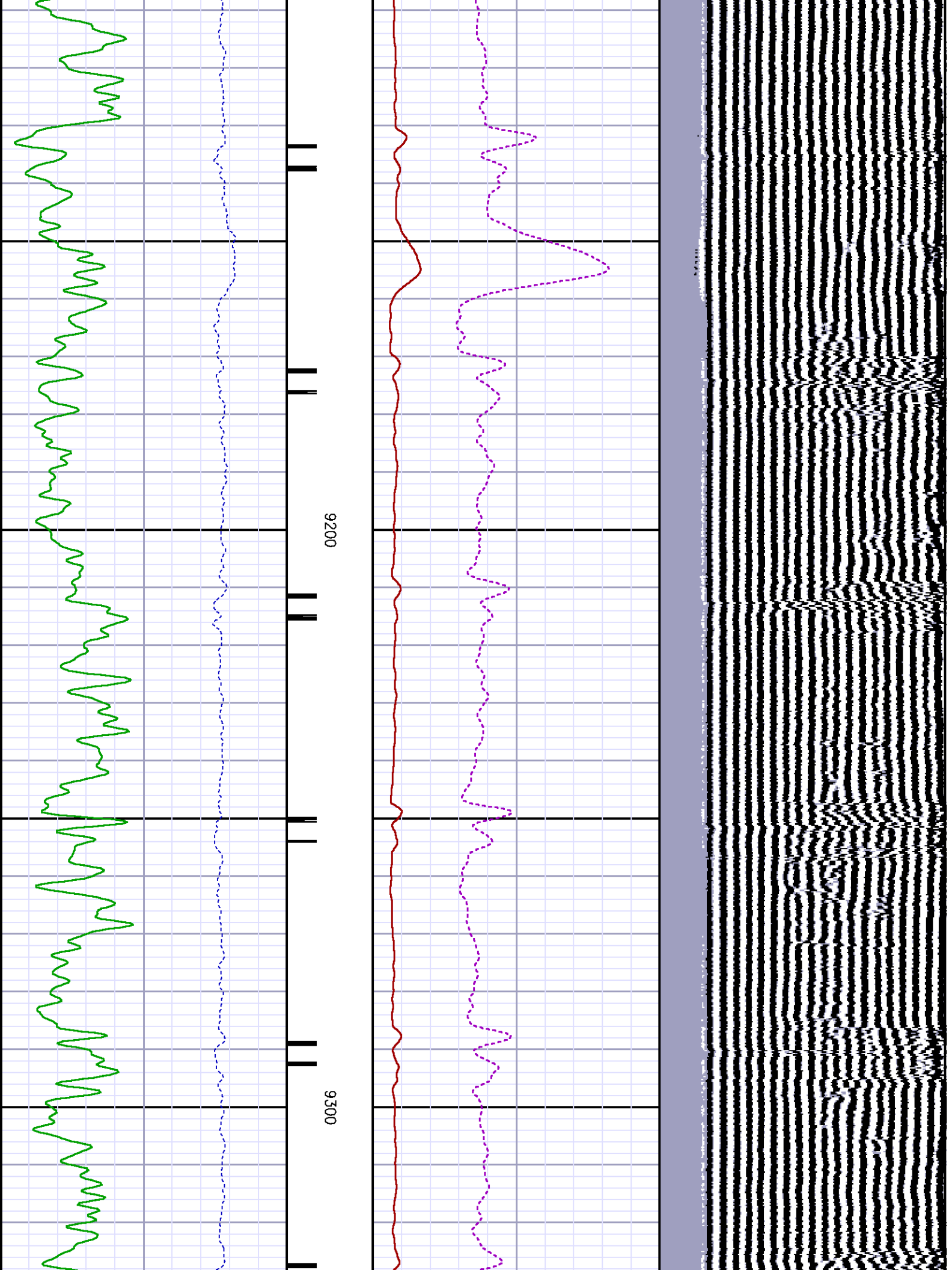
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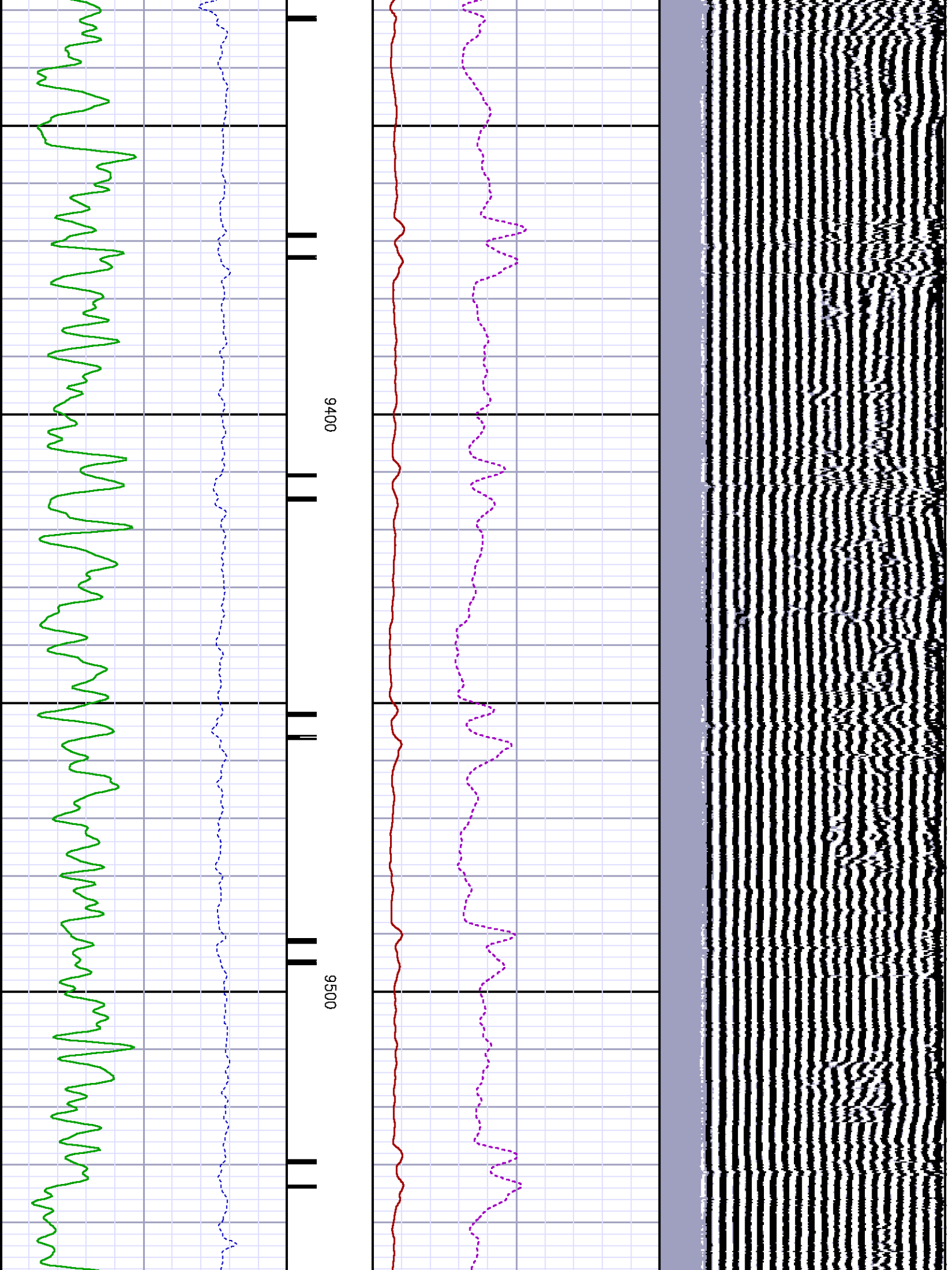
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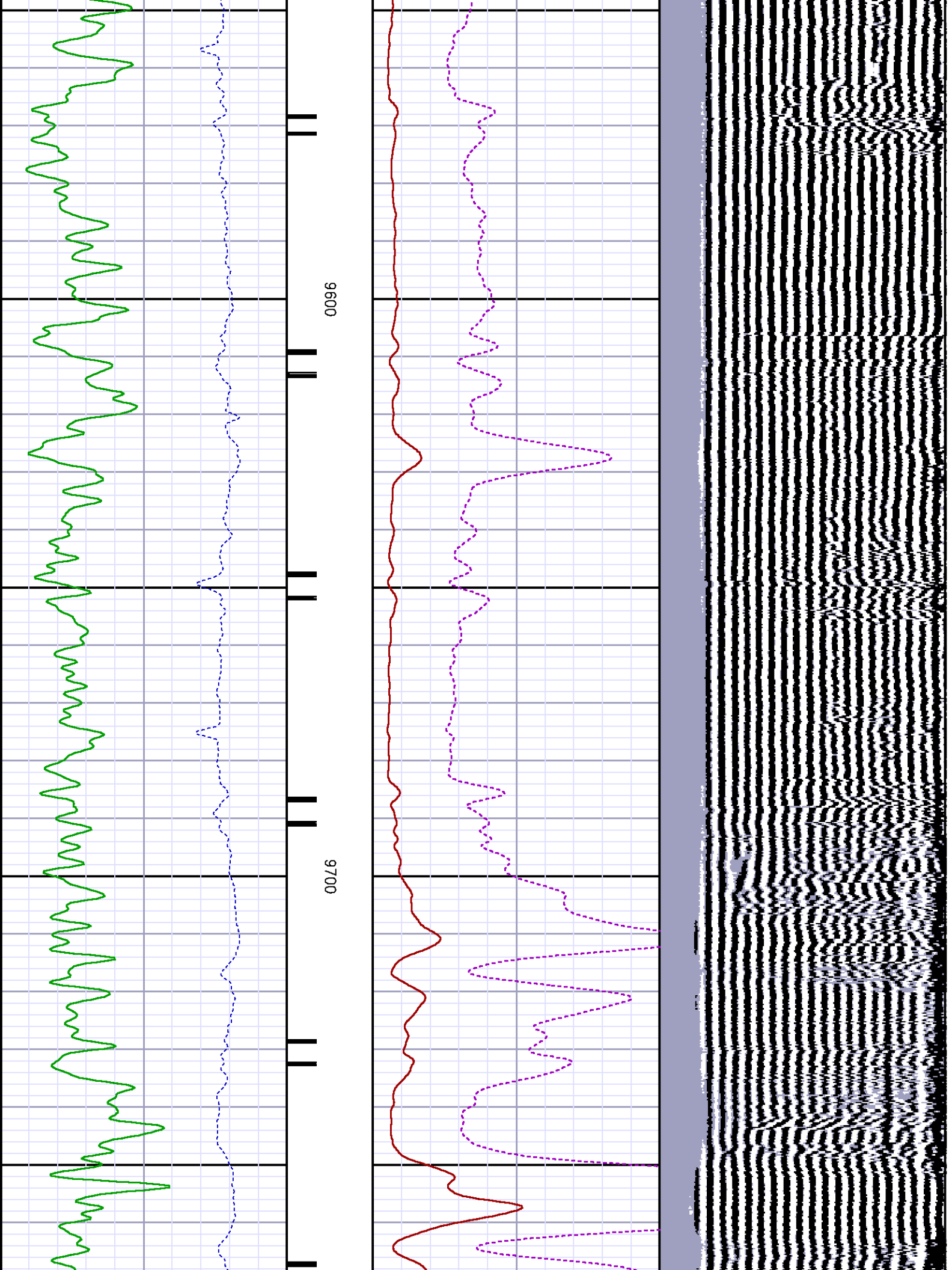


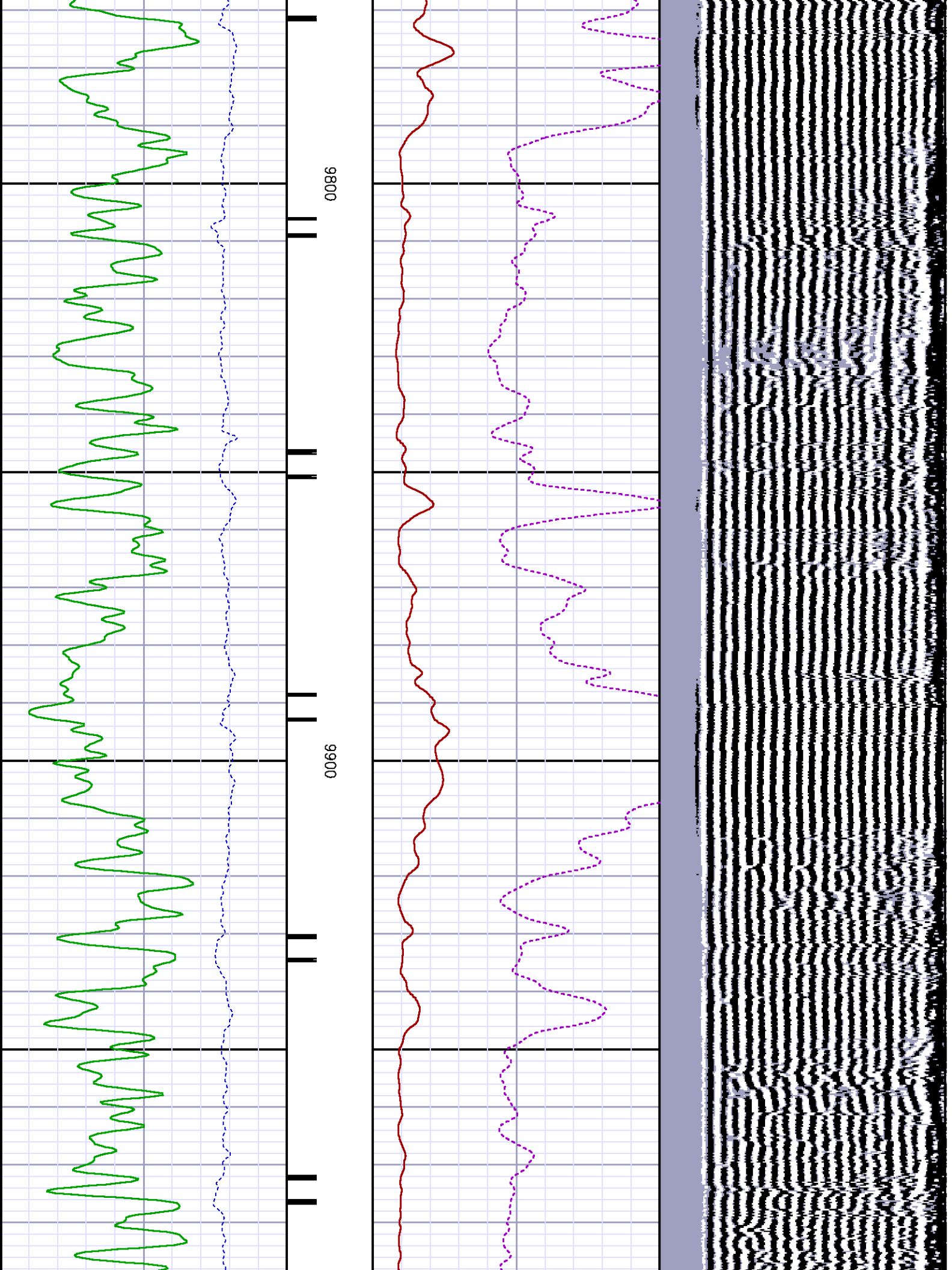


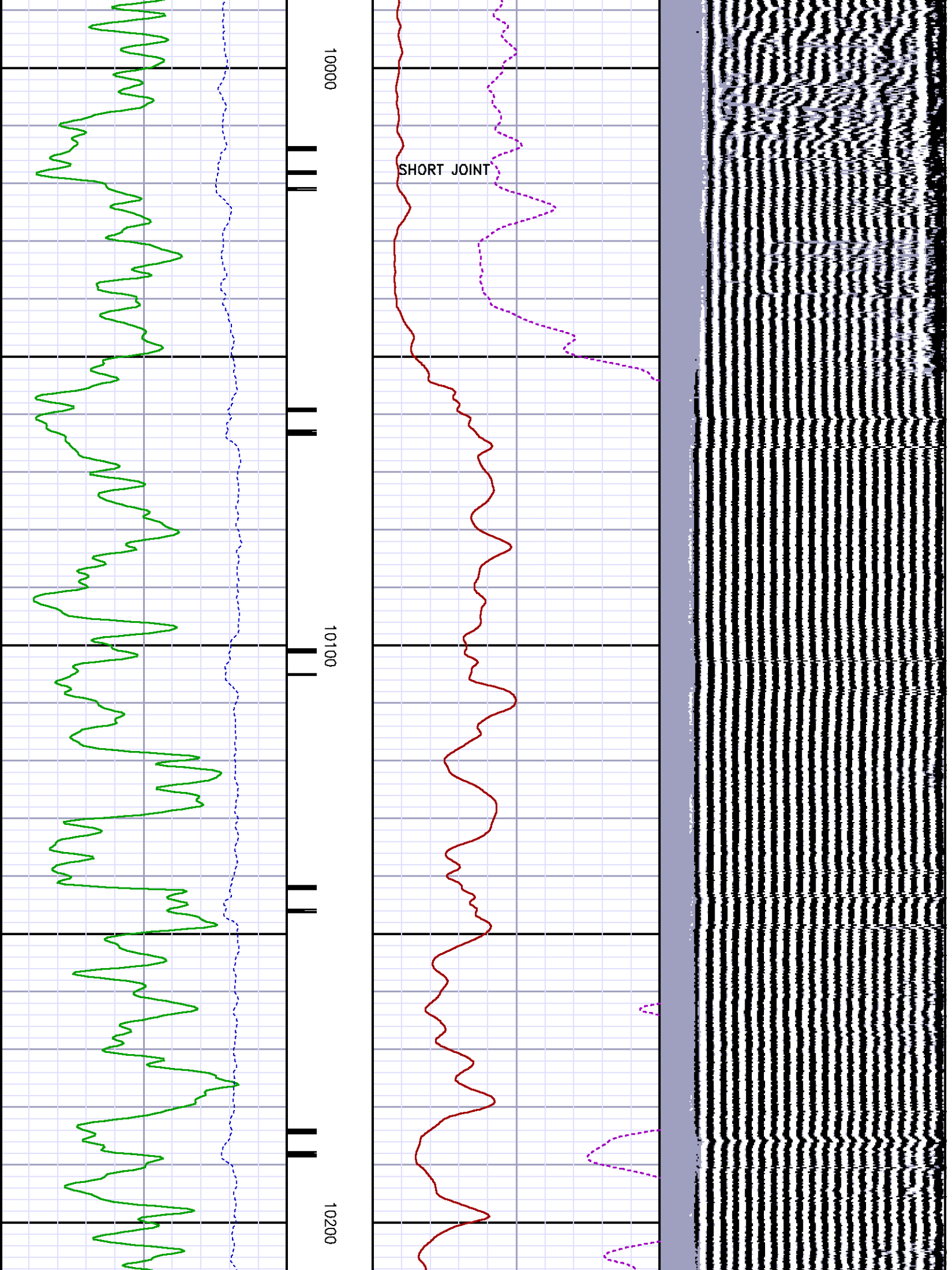


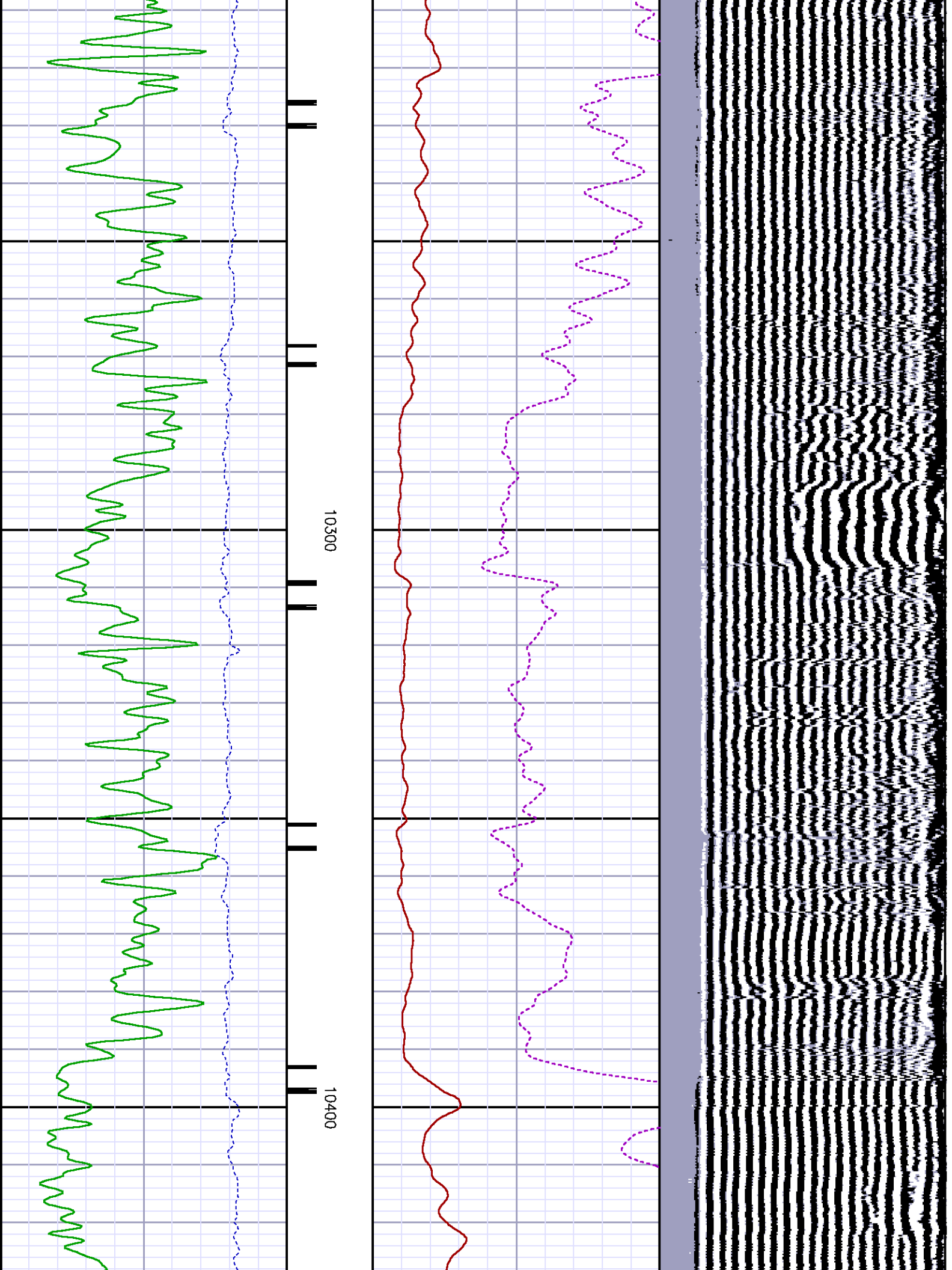


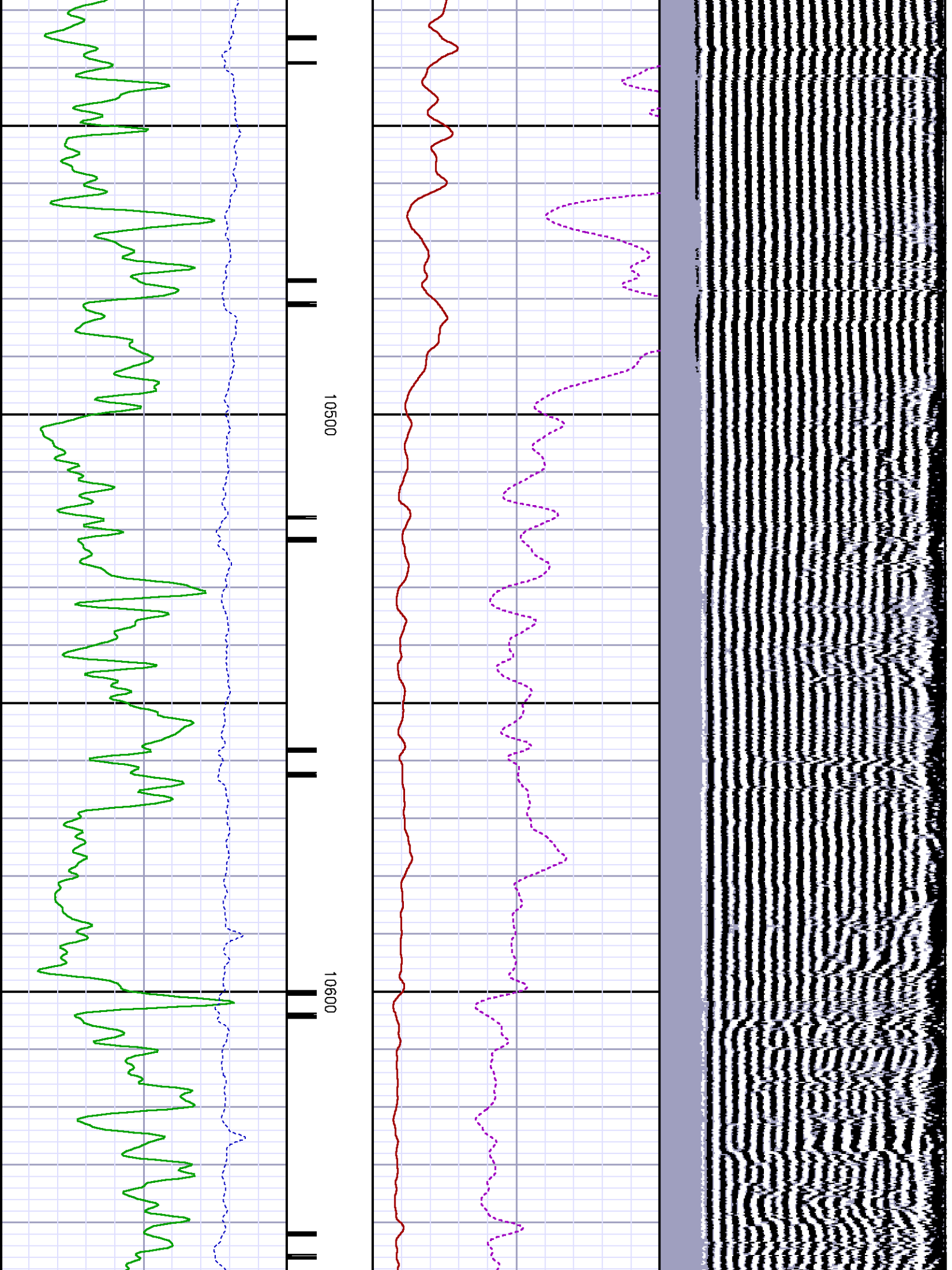


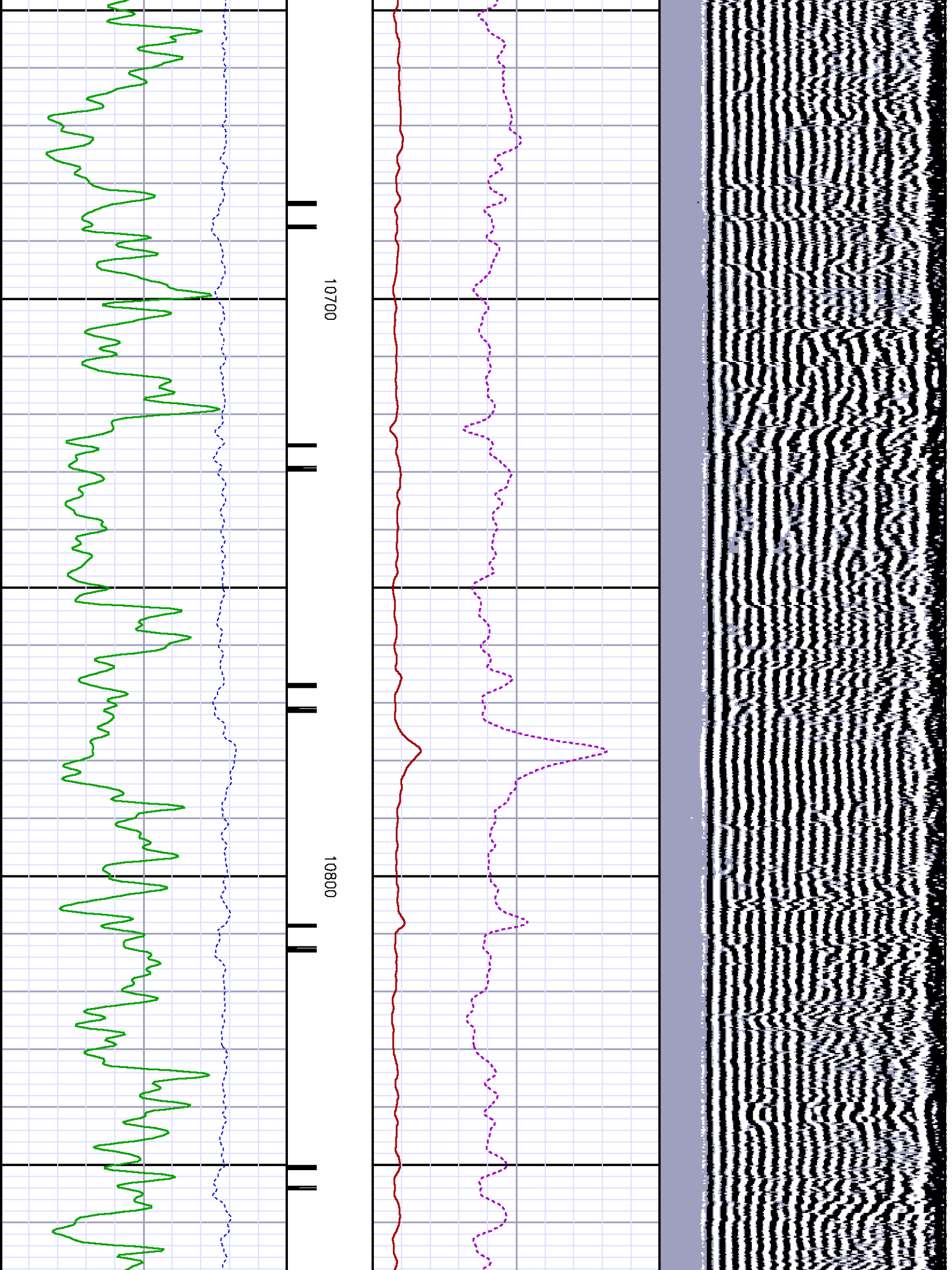


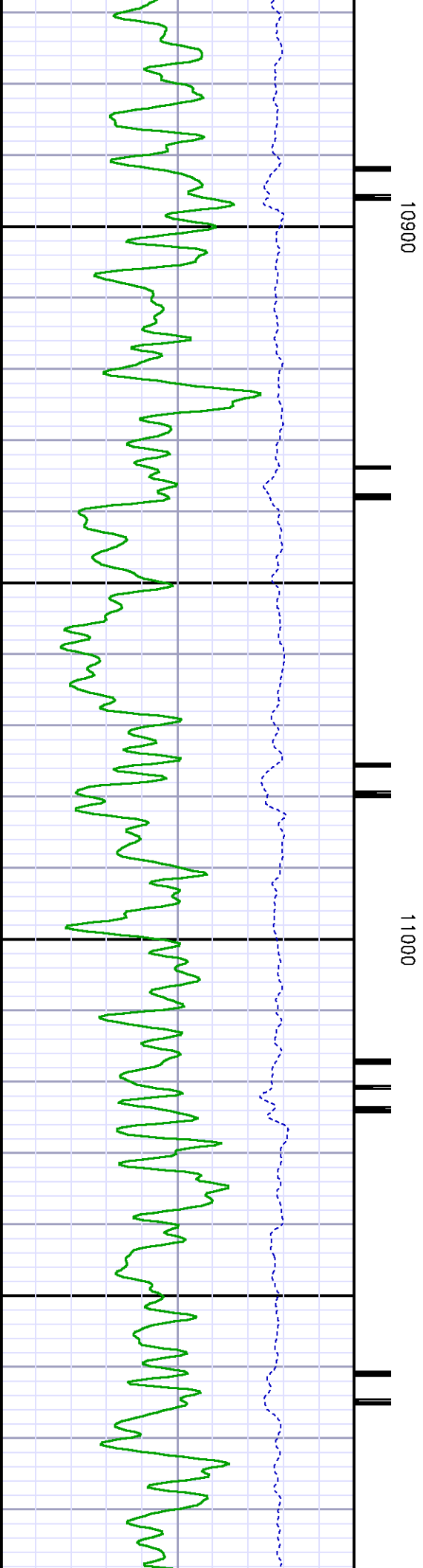
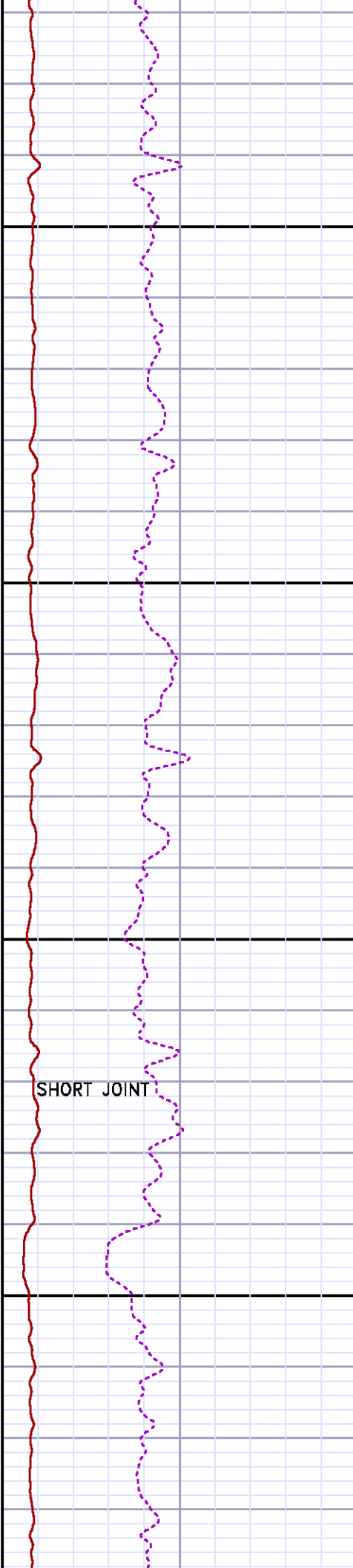
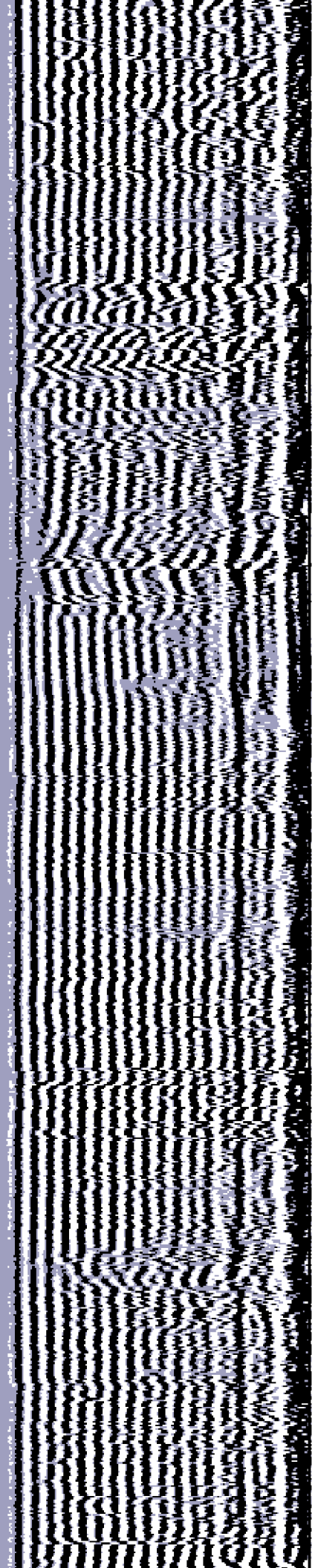


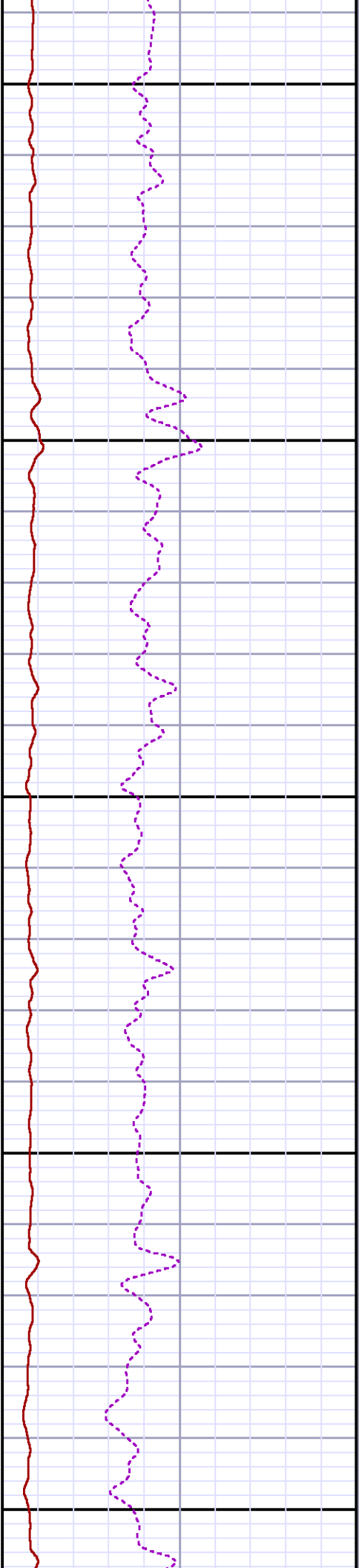
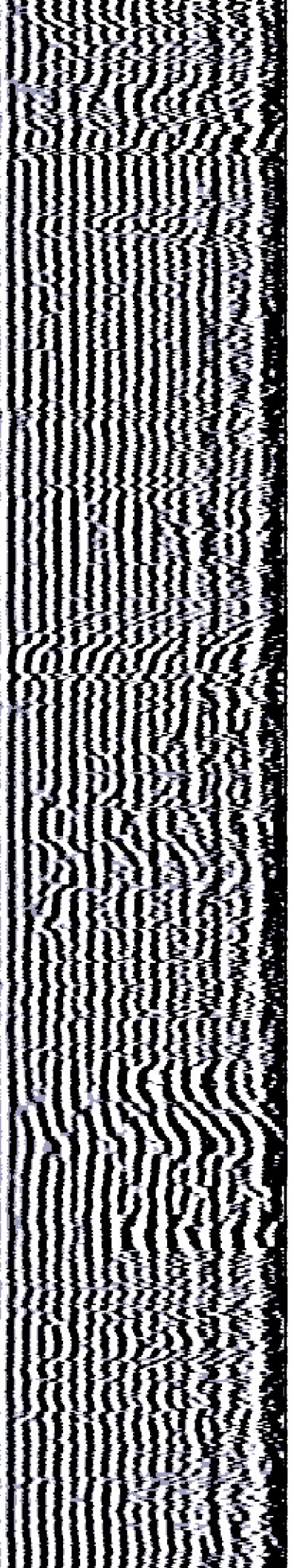








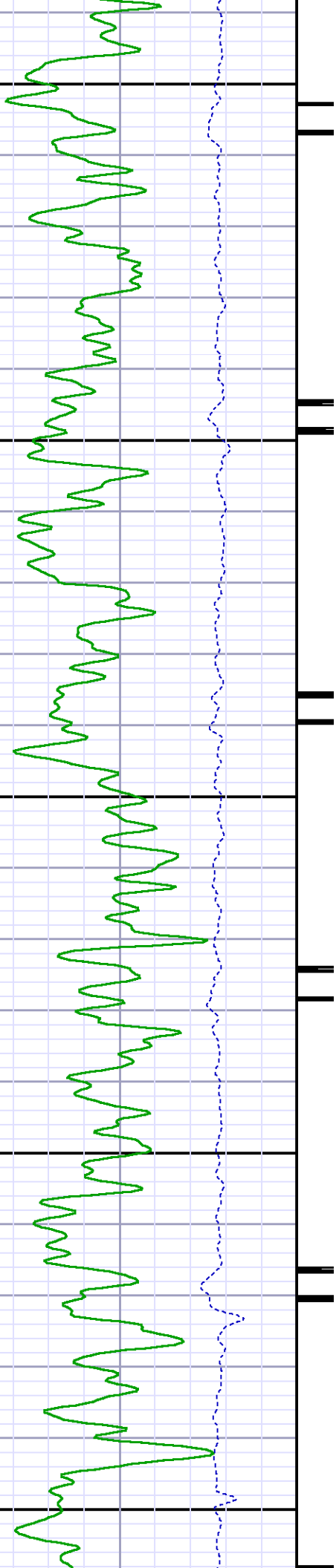


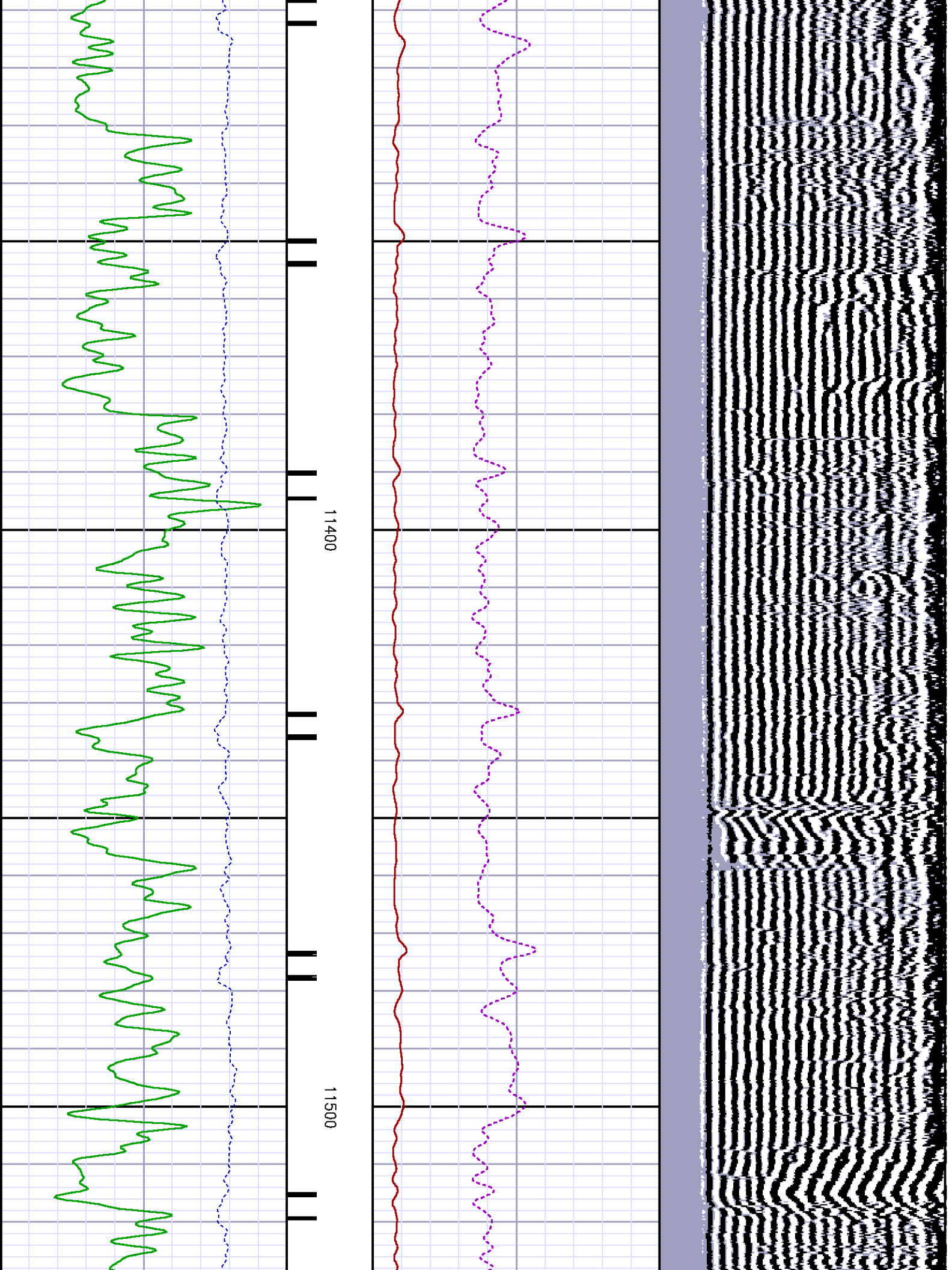


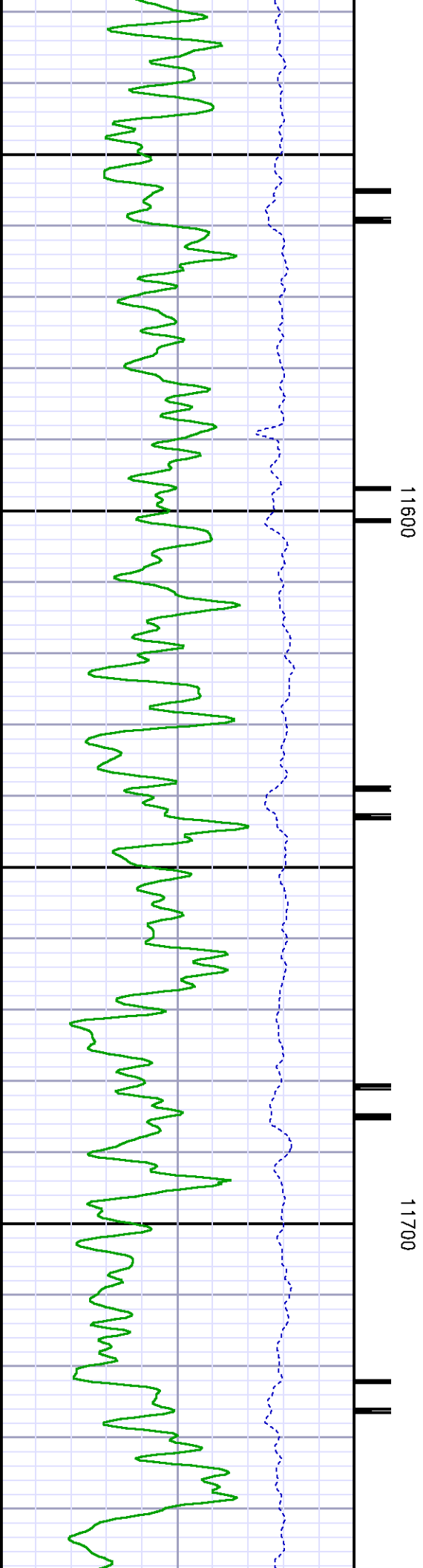
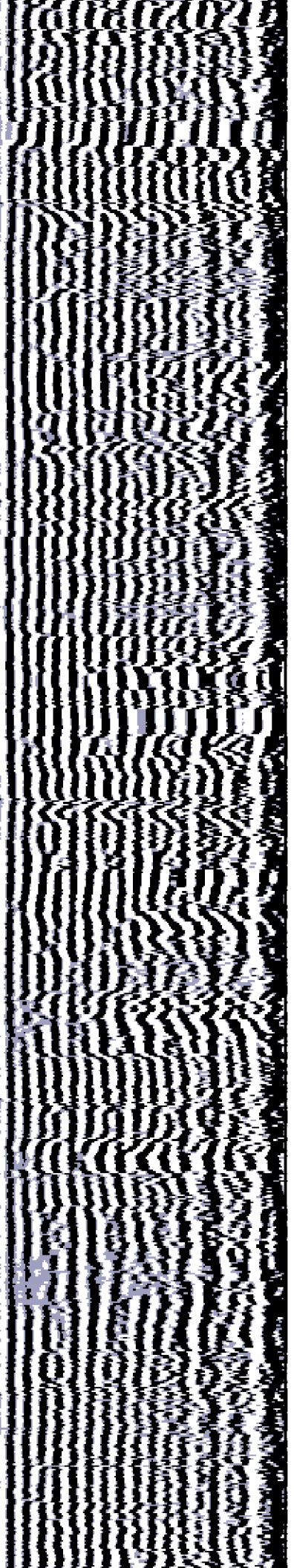
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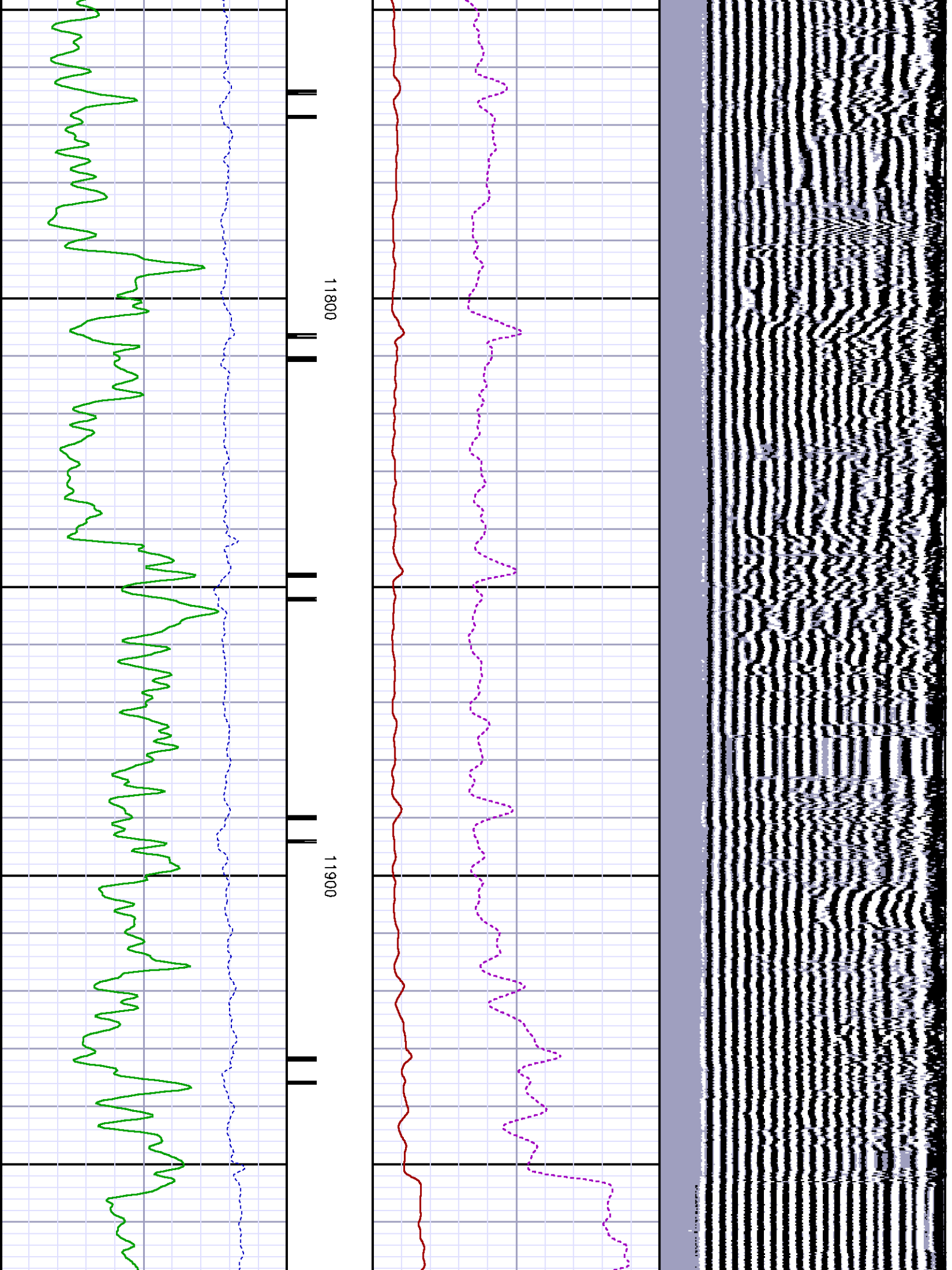
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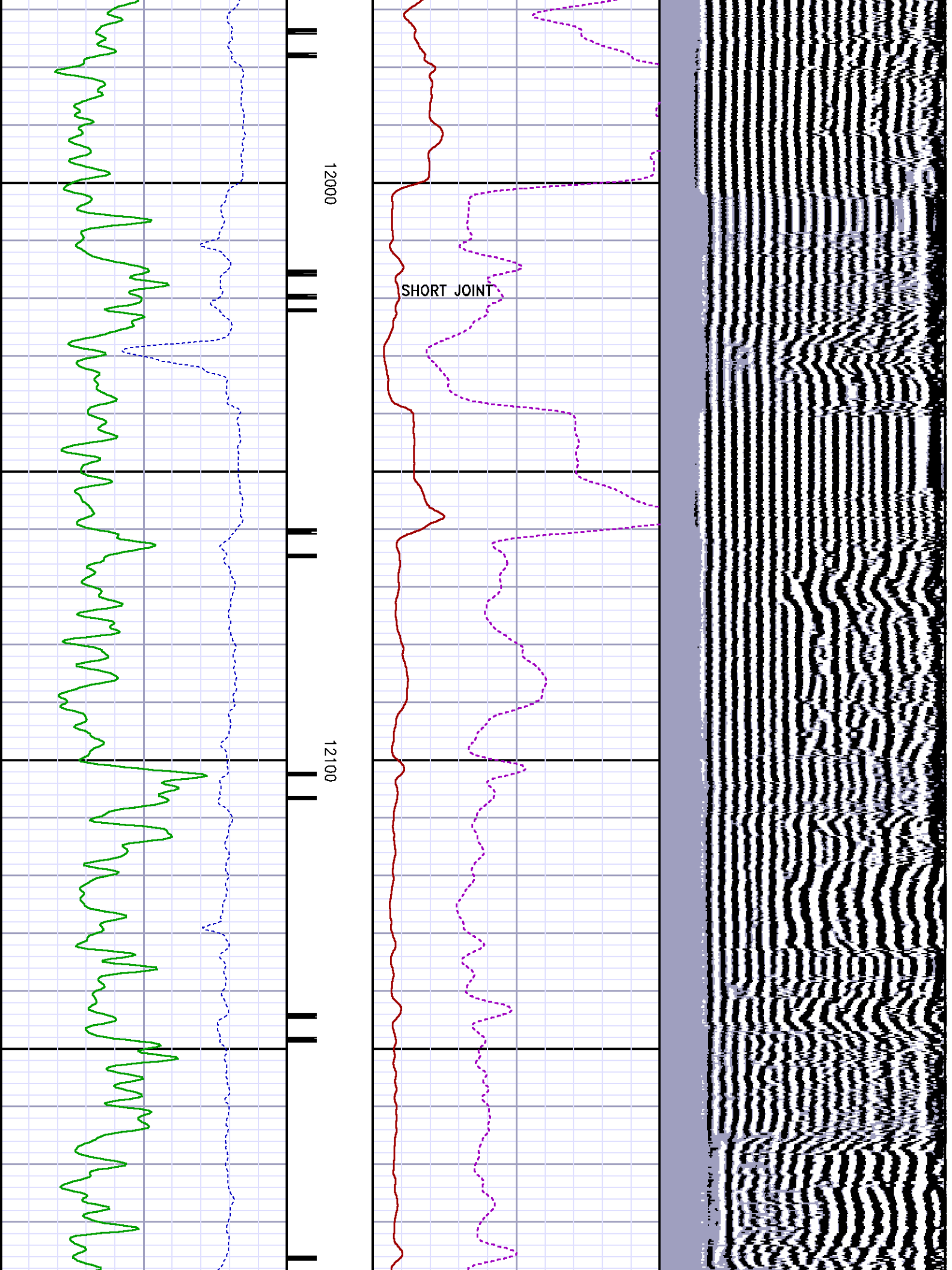
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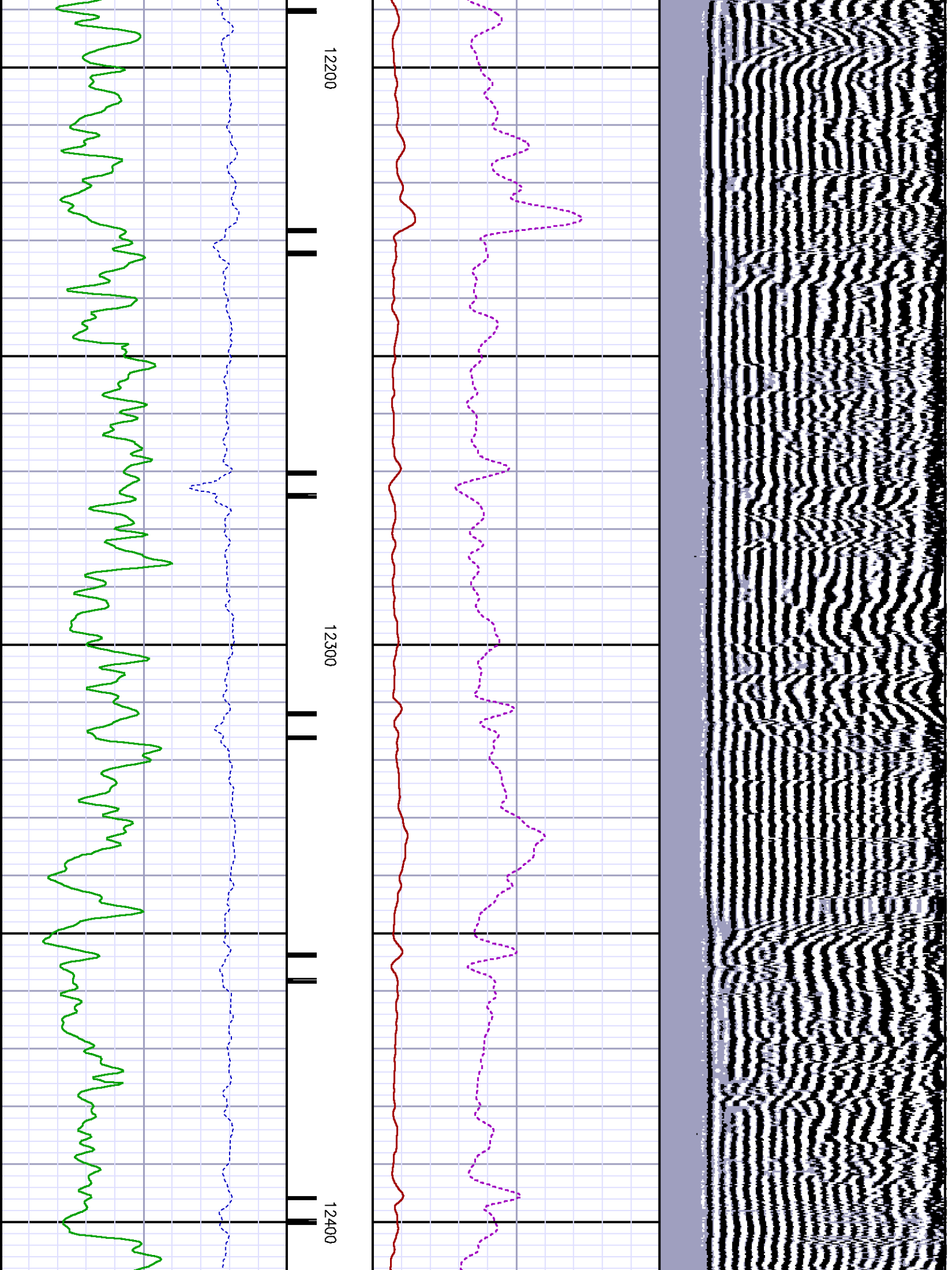


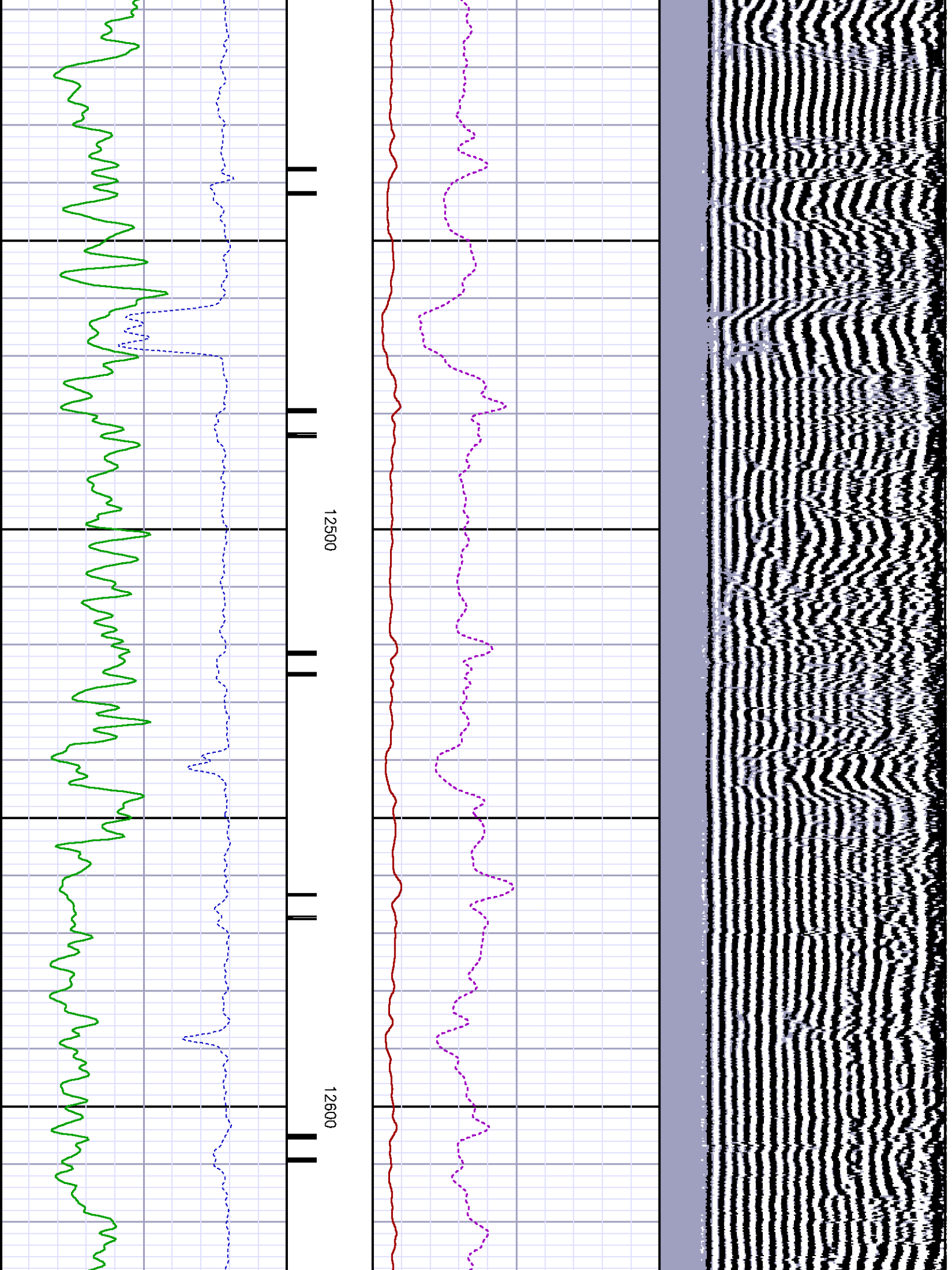


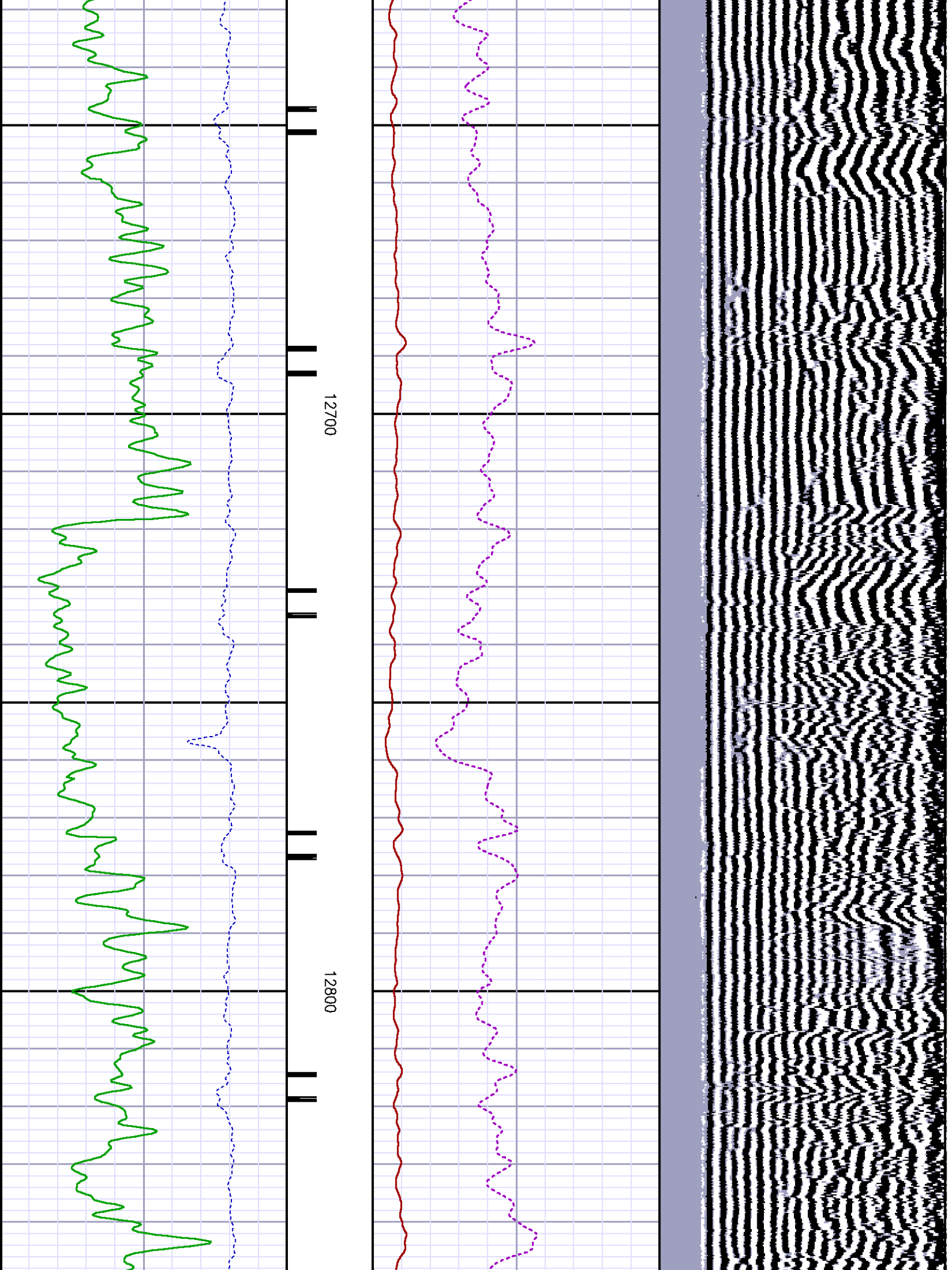


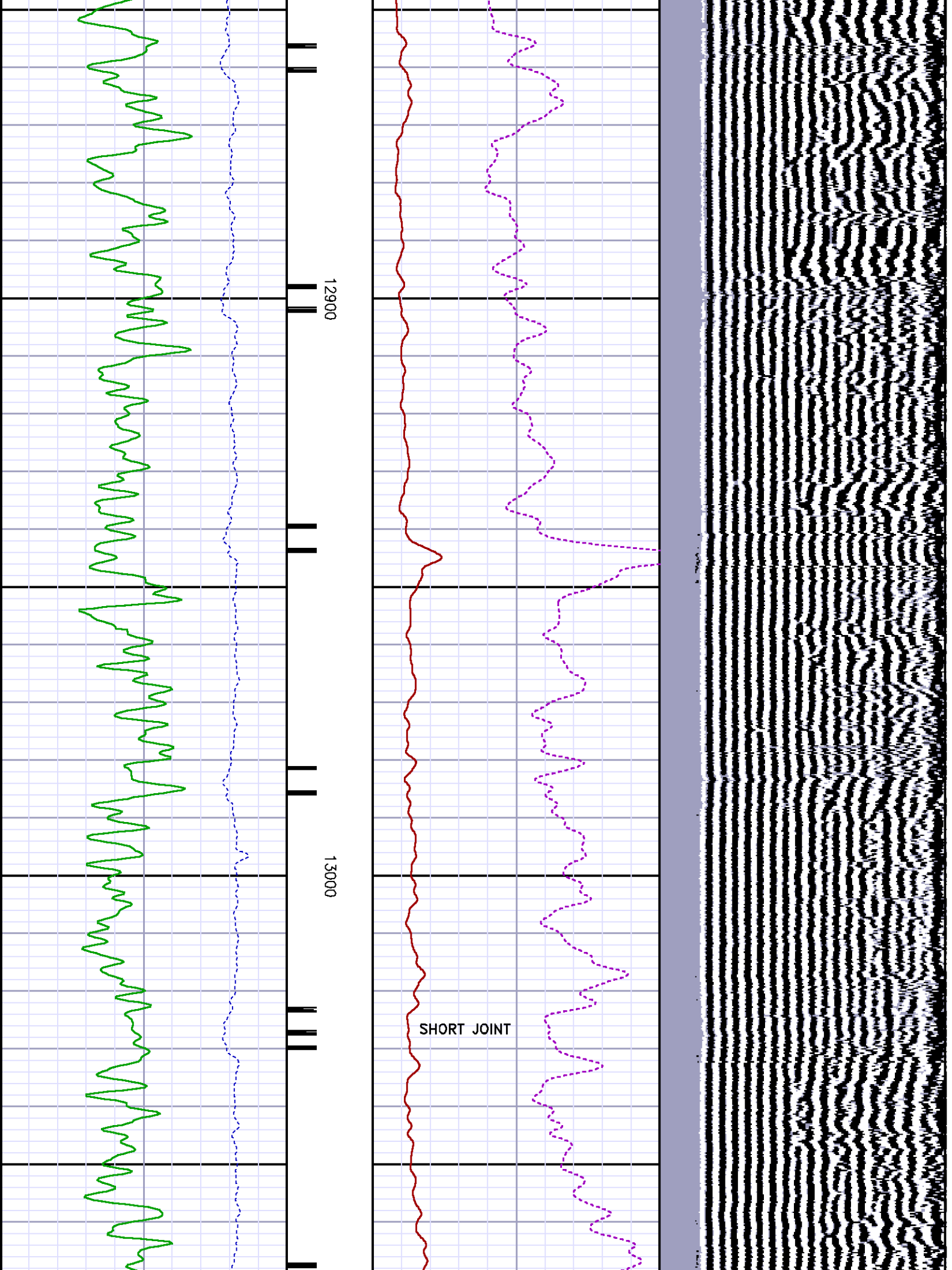


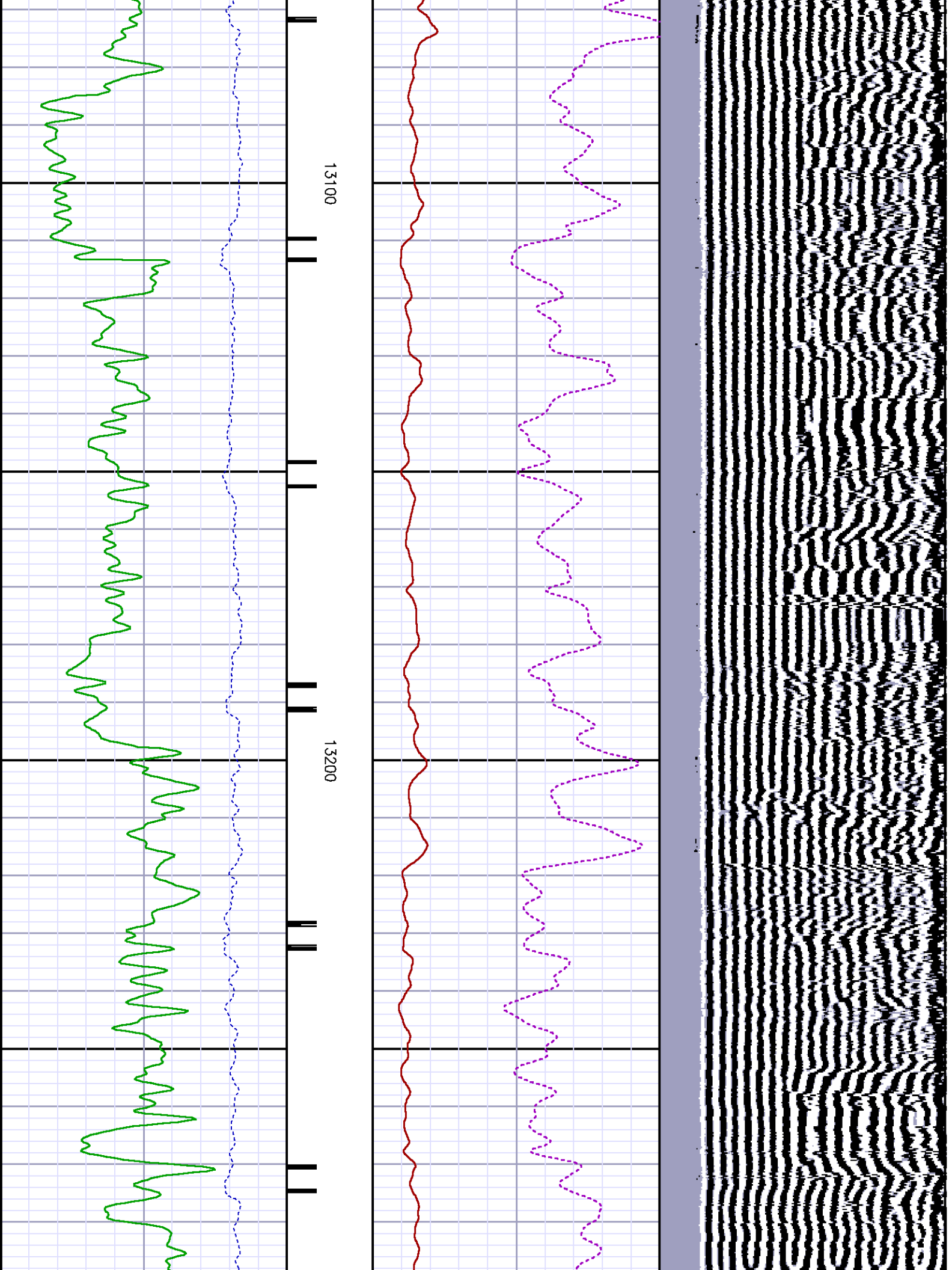


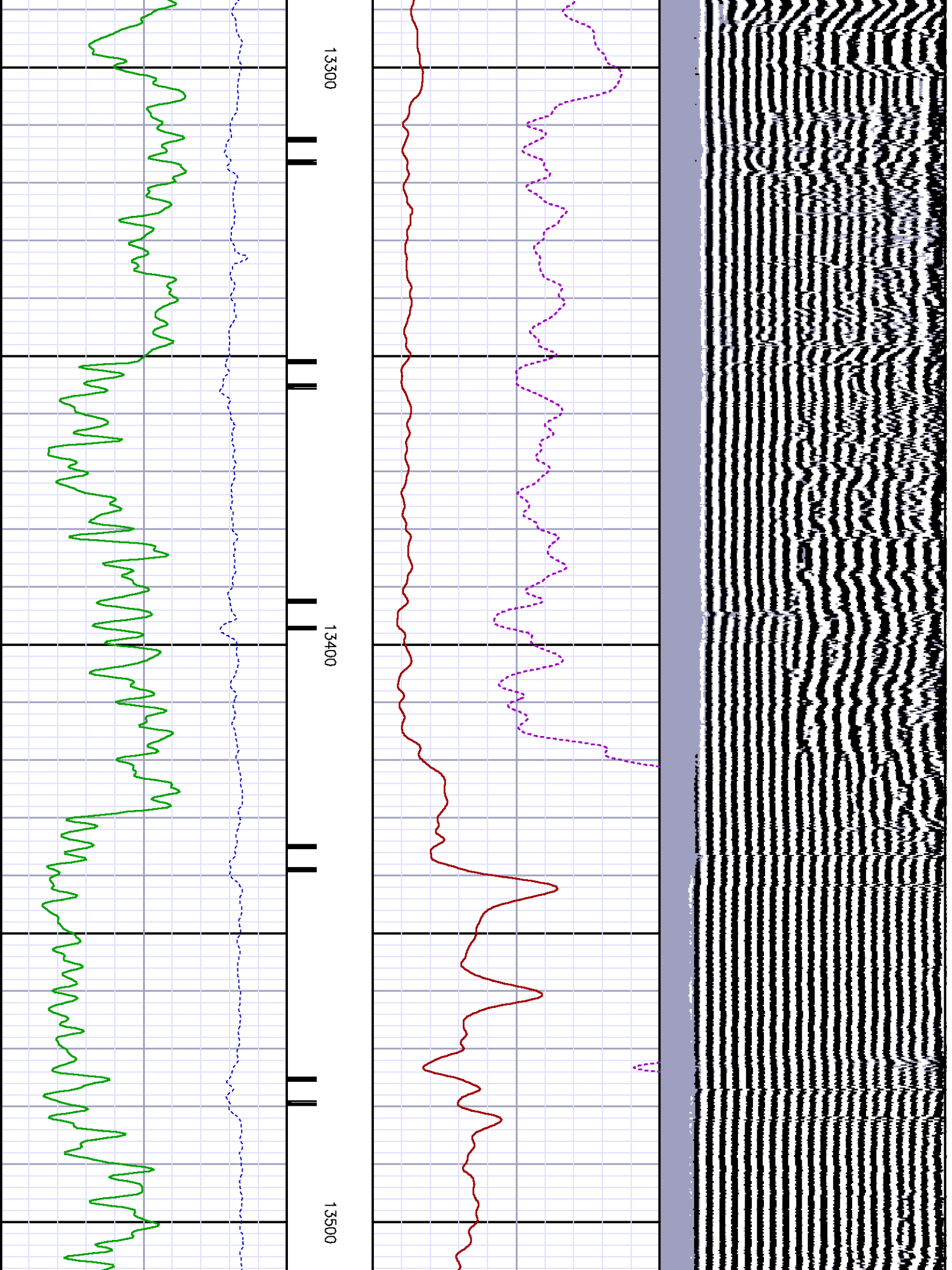


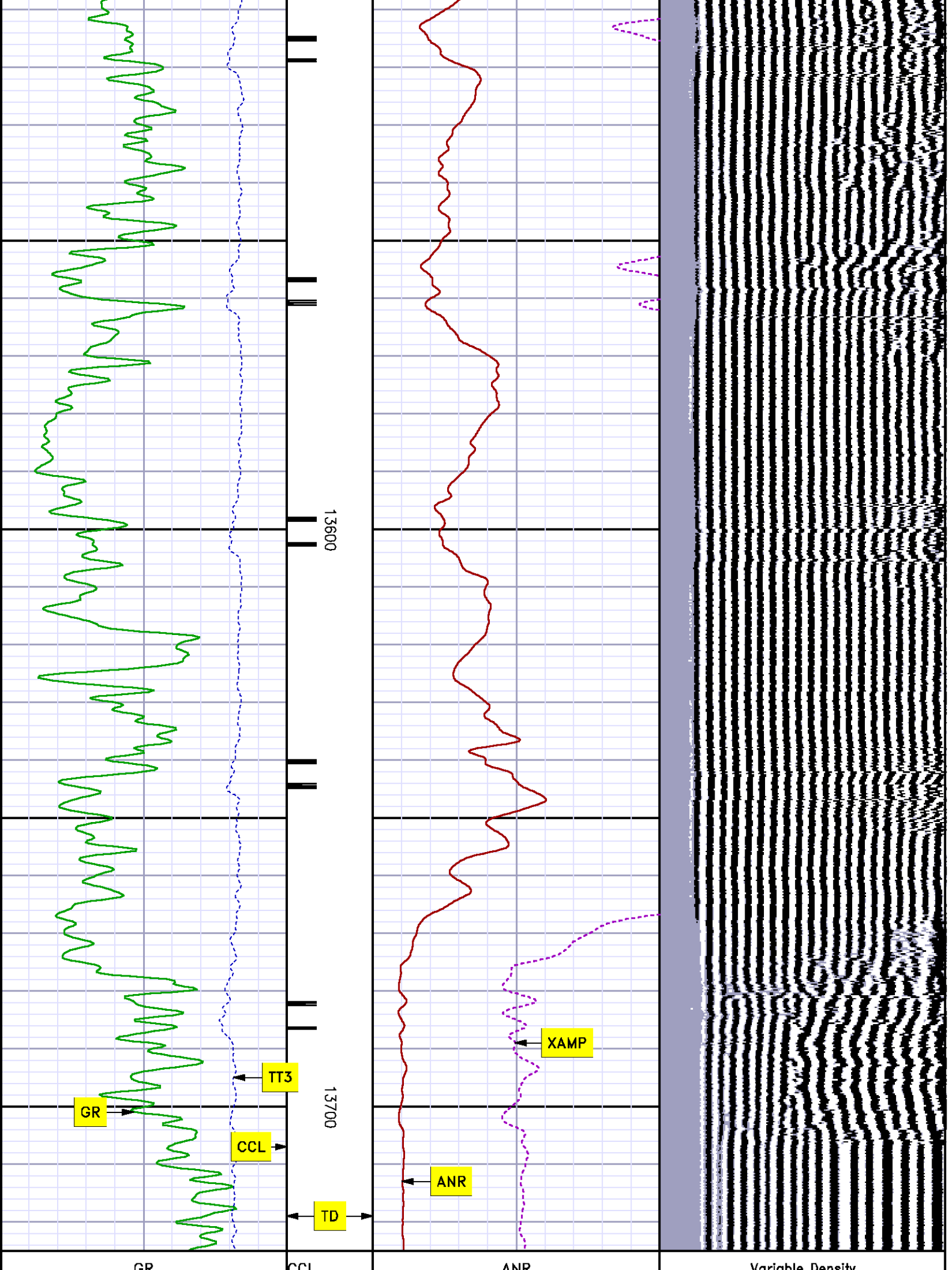












0	CR	150	MD feet 1:240	0	ANK	100	200	Variable Density	1200
	gAPI		800		mv				
	TT3	180	mv		XAMP	20			
280				0					
	usec				mv				

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

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	302.407	usec	3322.250	13750.000
RAL	Amp Gate Start Near	192.925	usec	3322.250	13750.000
RAL	Amp Gate Start Radial	194.019	usec	3322.250	13750.000
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RAL	Fluid Travel Time	200.000	usec/ft	3322.250	13749.902

DEPTH OFFSETS

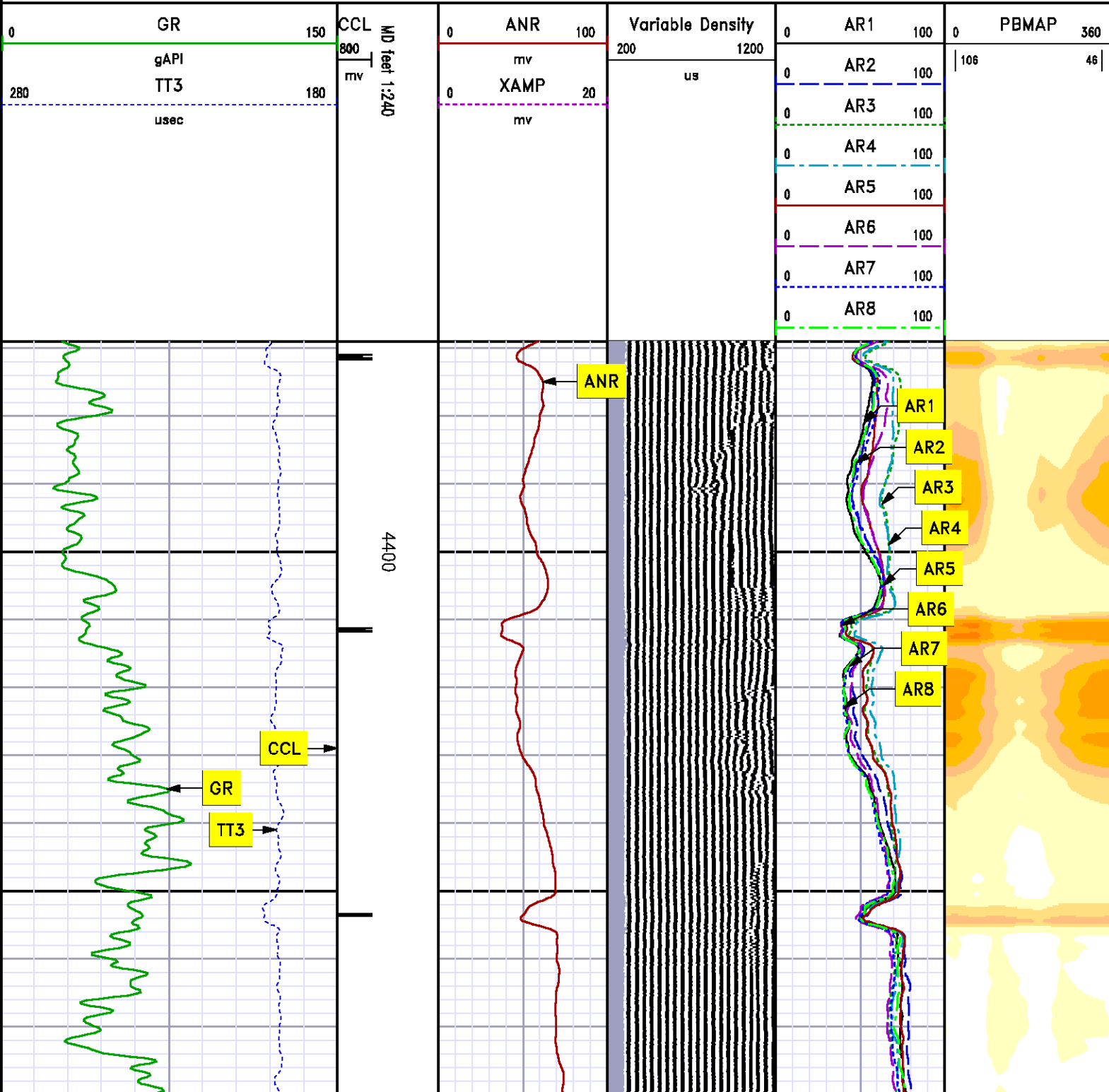
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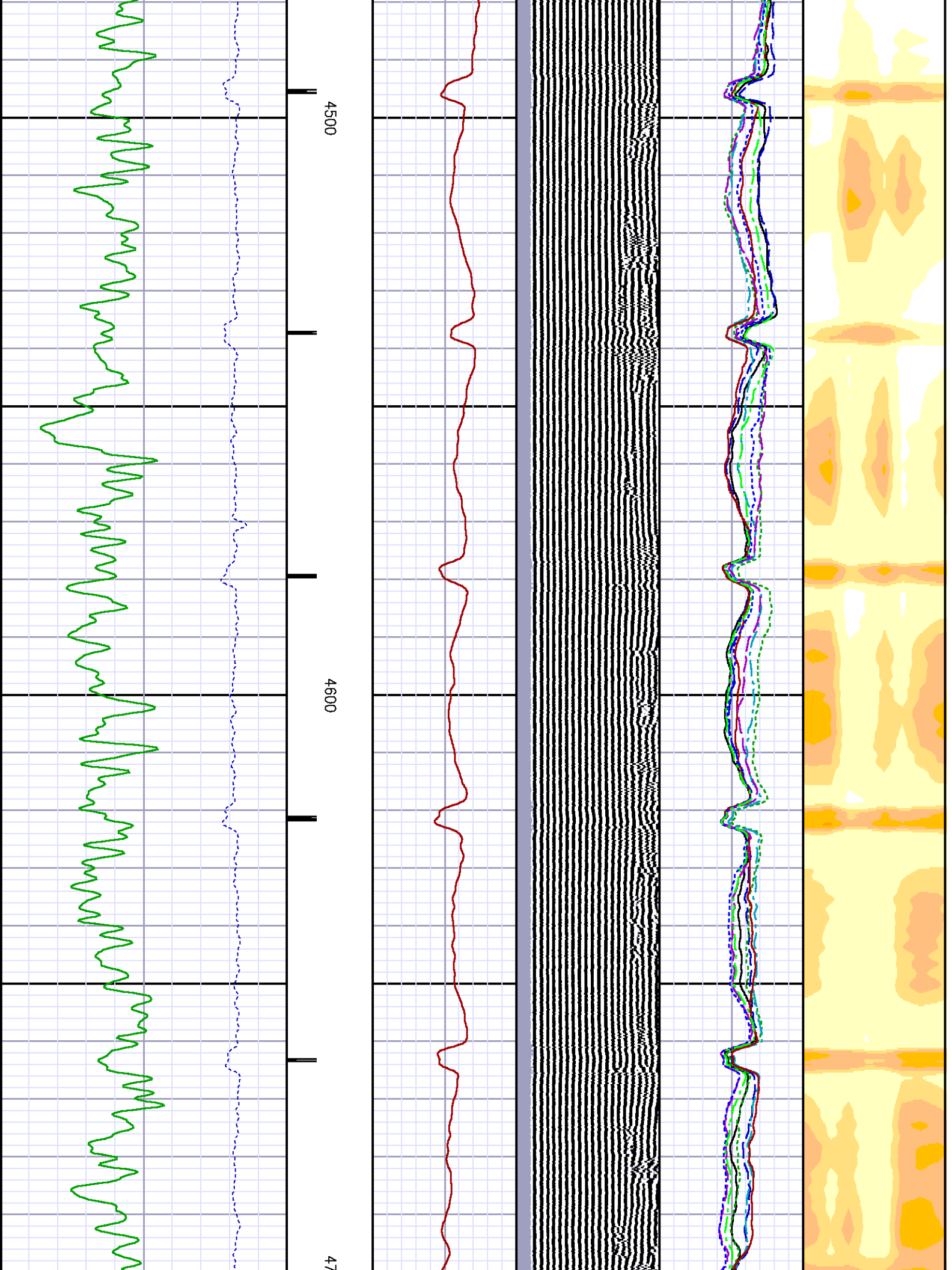
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-16.750	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-15.750	AFAR	SIG	TT5			

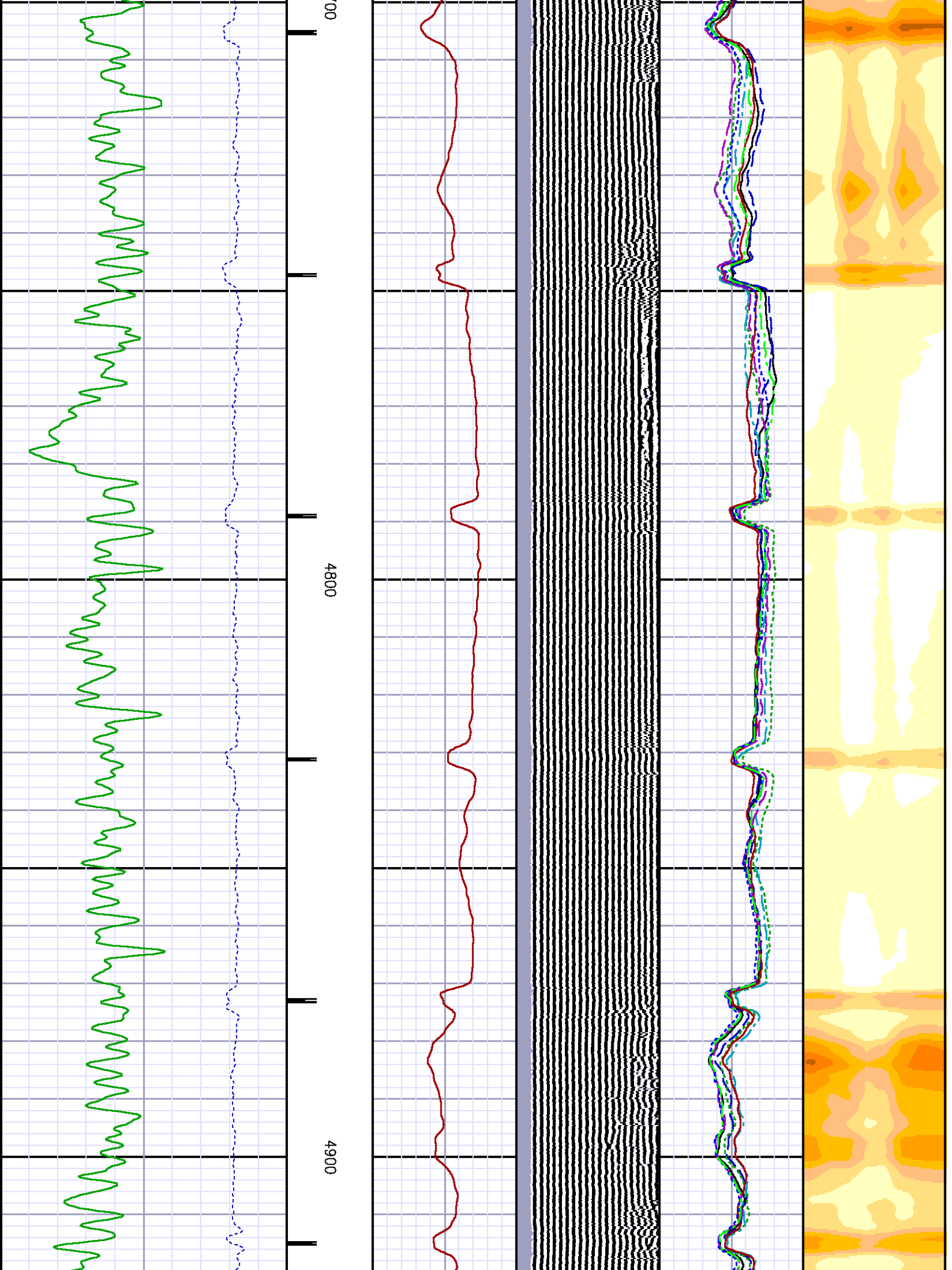
2459XA	-11.340	CCL
2459XA	-9.490	GR
2459XA	-4.090	NEU

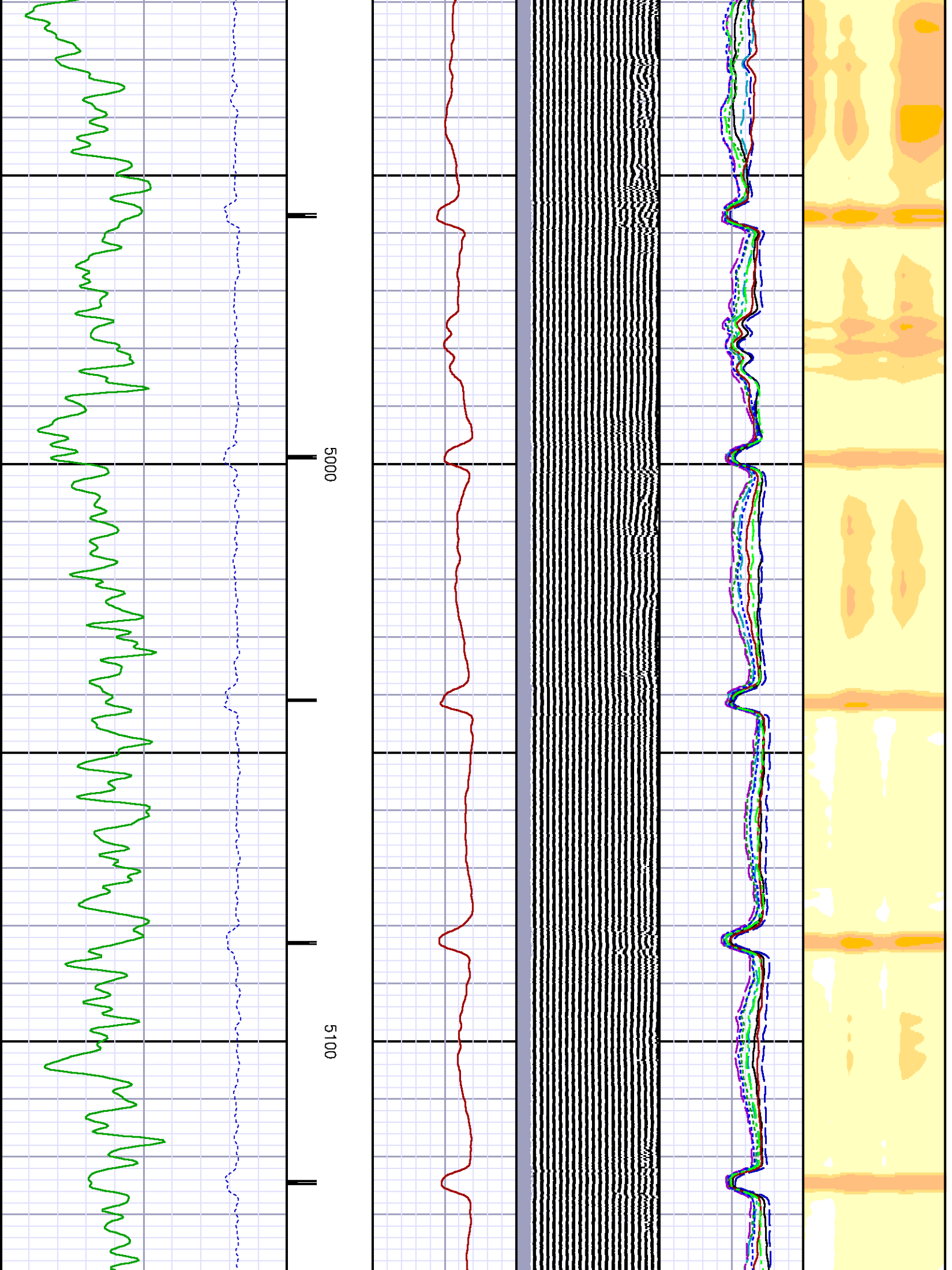
Created by : RAL, v4.8.008
 Plotted by : PlotMgr, v5.4.504

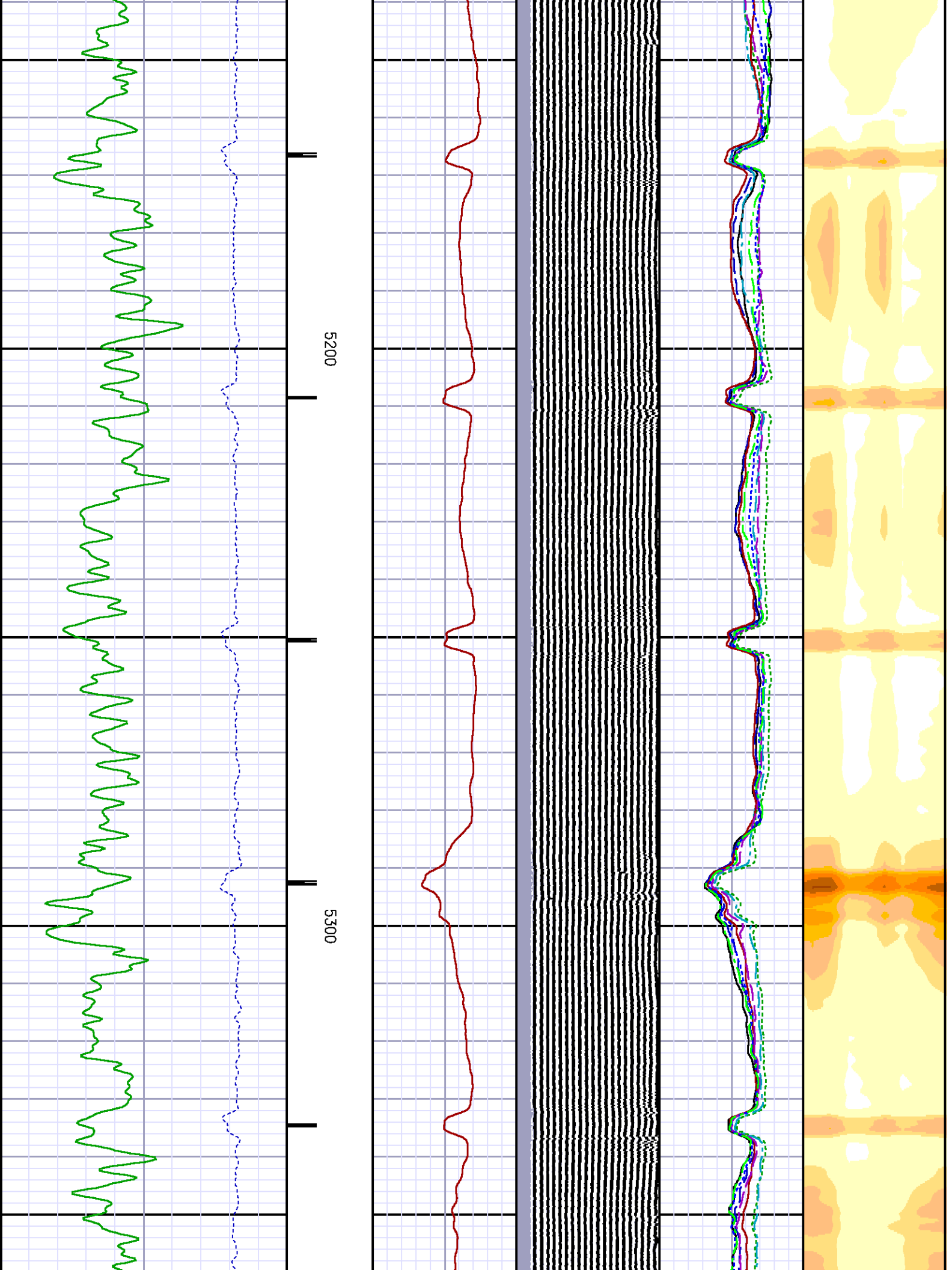
Company : EXXONMOBIL PRODUCTION COMPANY
 Well : PCU 296-6 A8
 File Name : d:\welldata\rada8\main.xtf
 Mode : PlotMgr 5.4.504
 Interval : 4369.00 - 13725.00 feet UP
 Created : 1/19/2011 12:07:26 PM

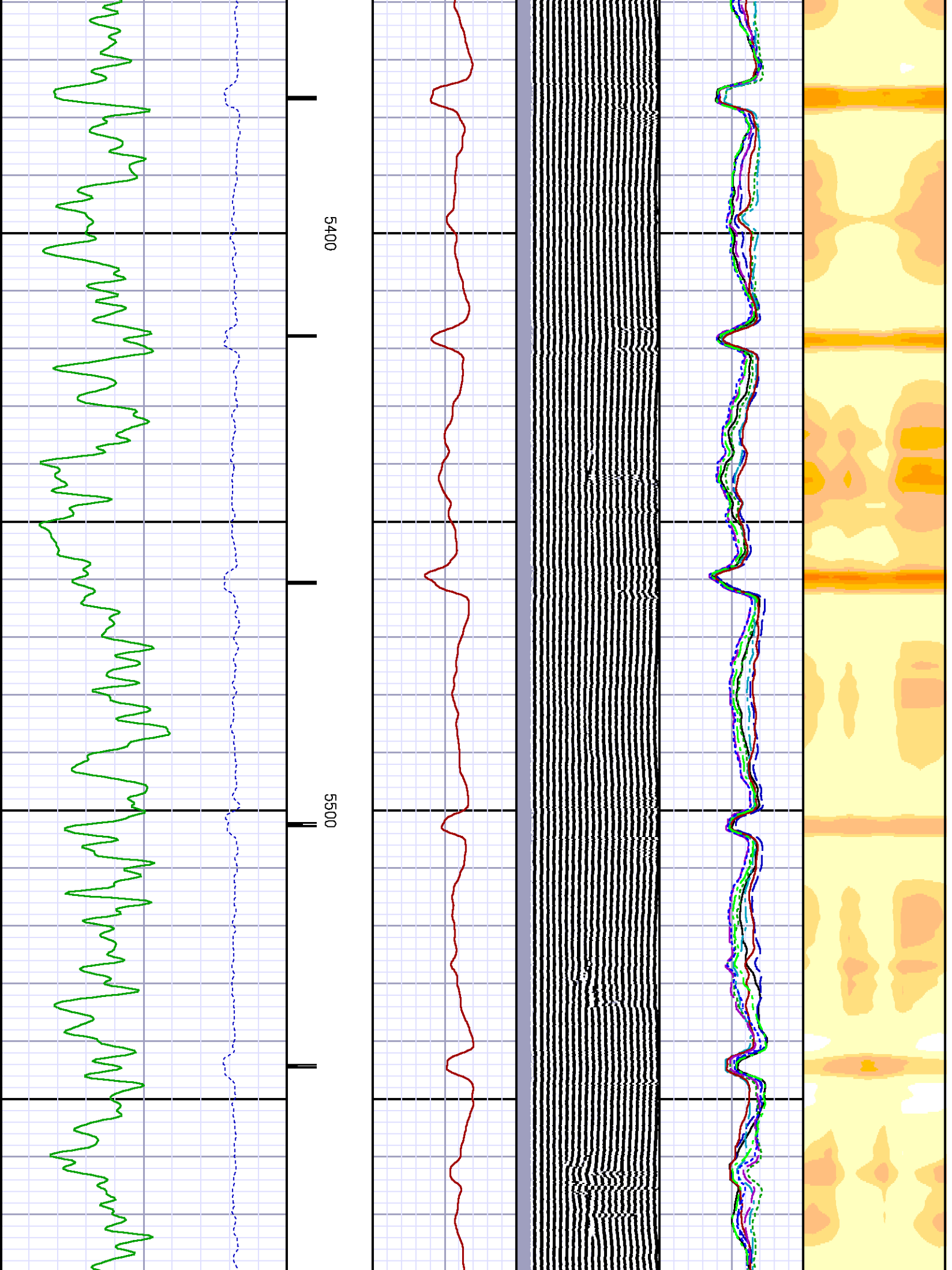


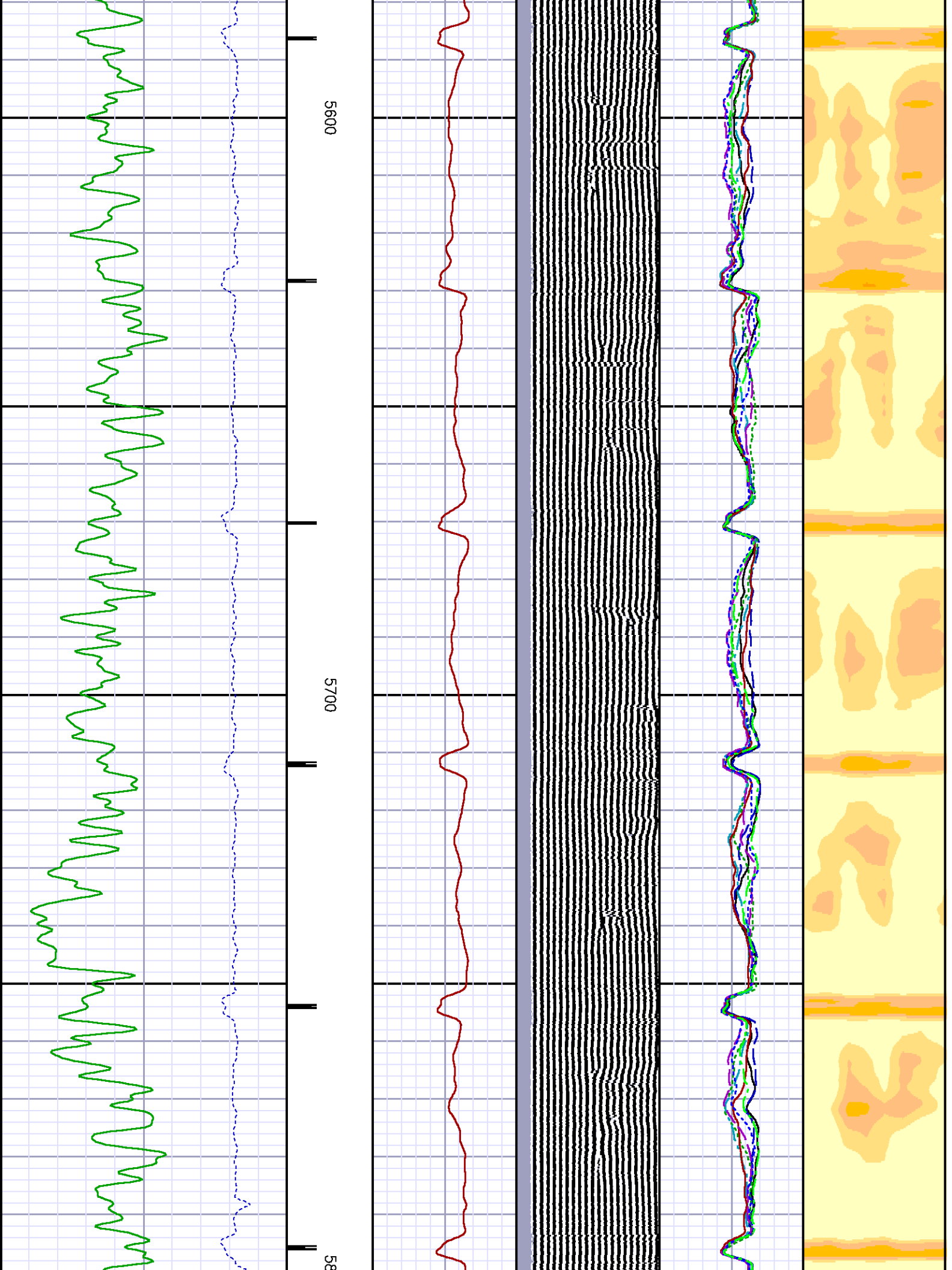


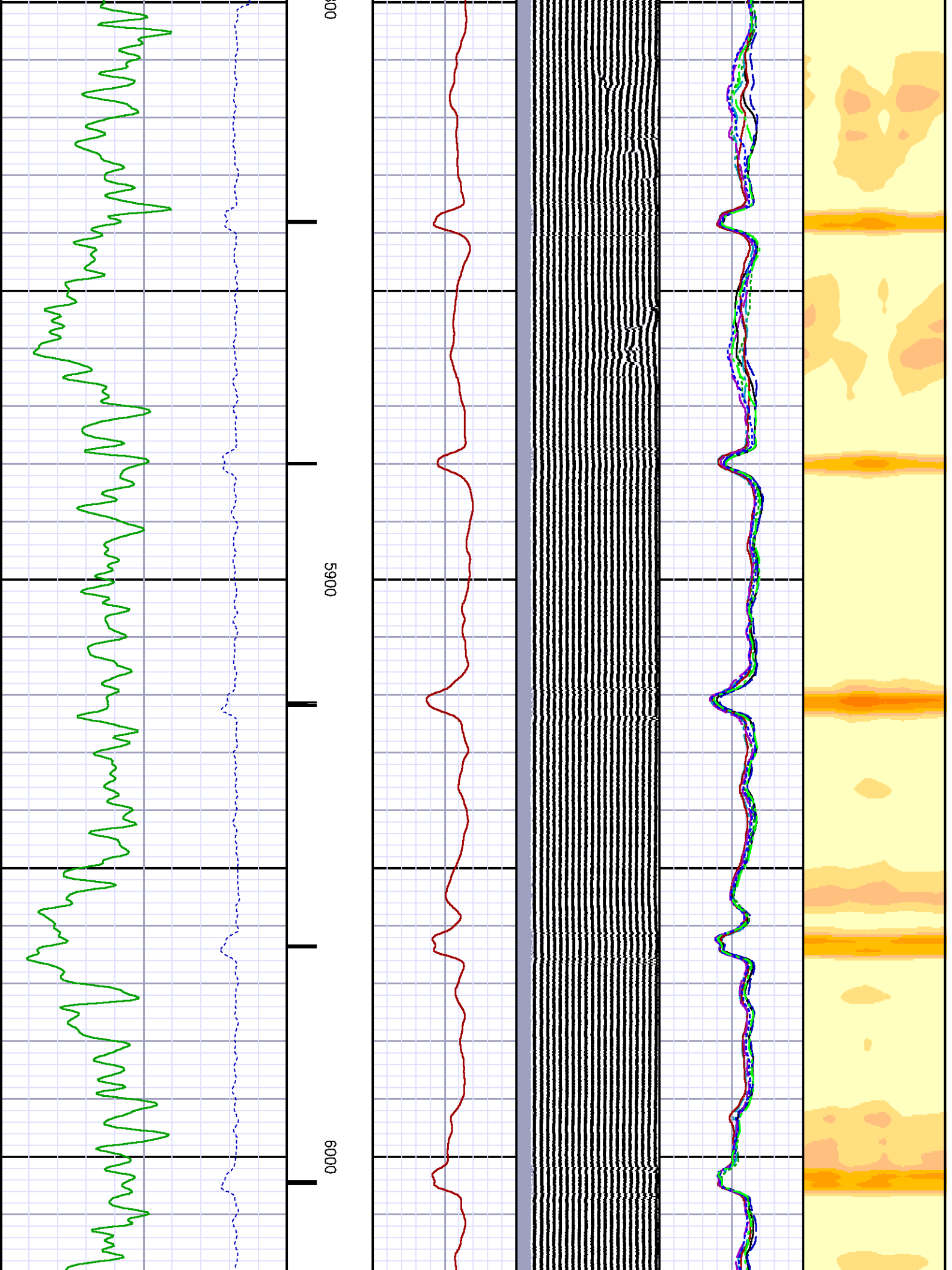


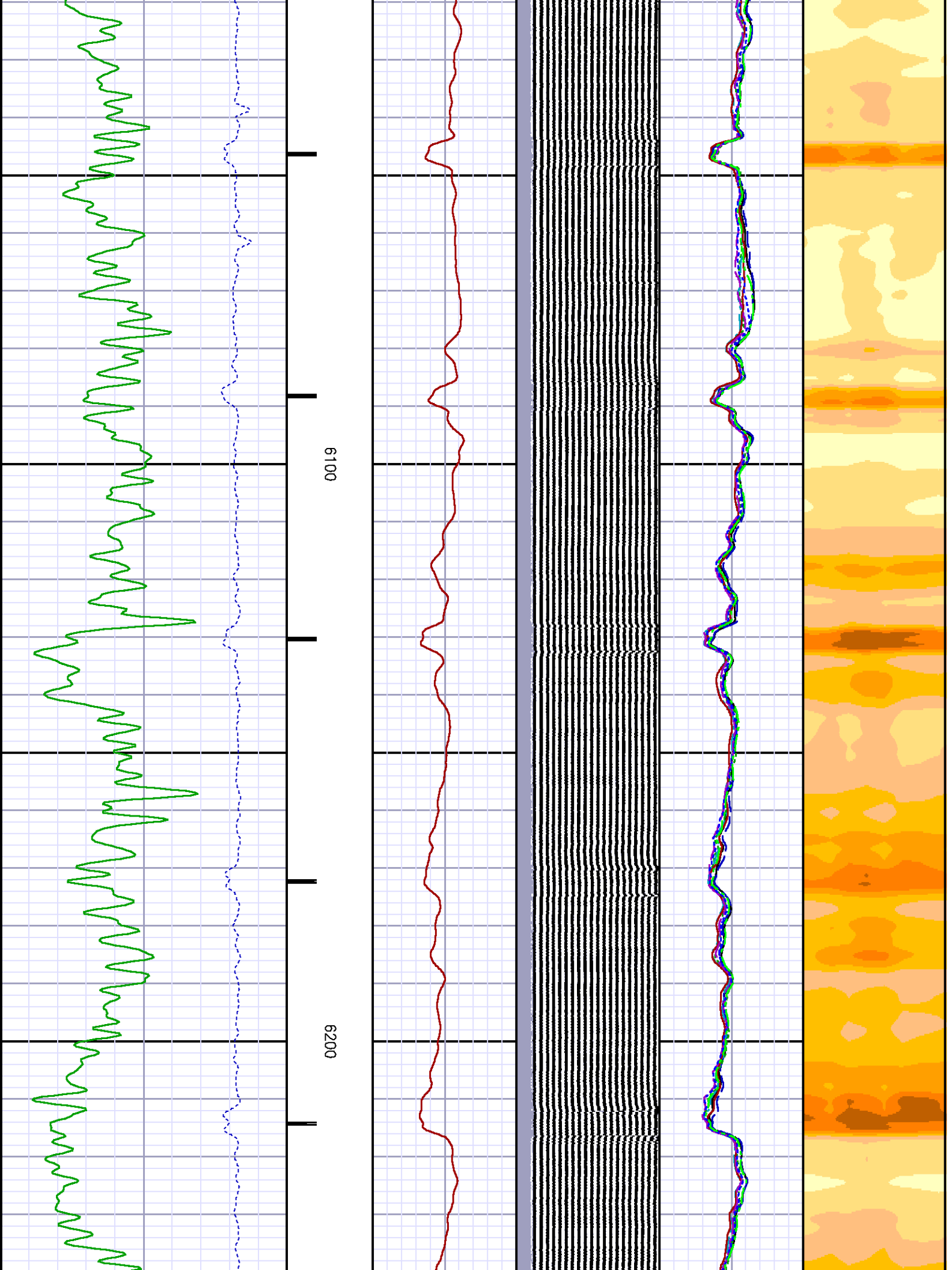


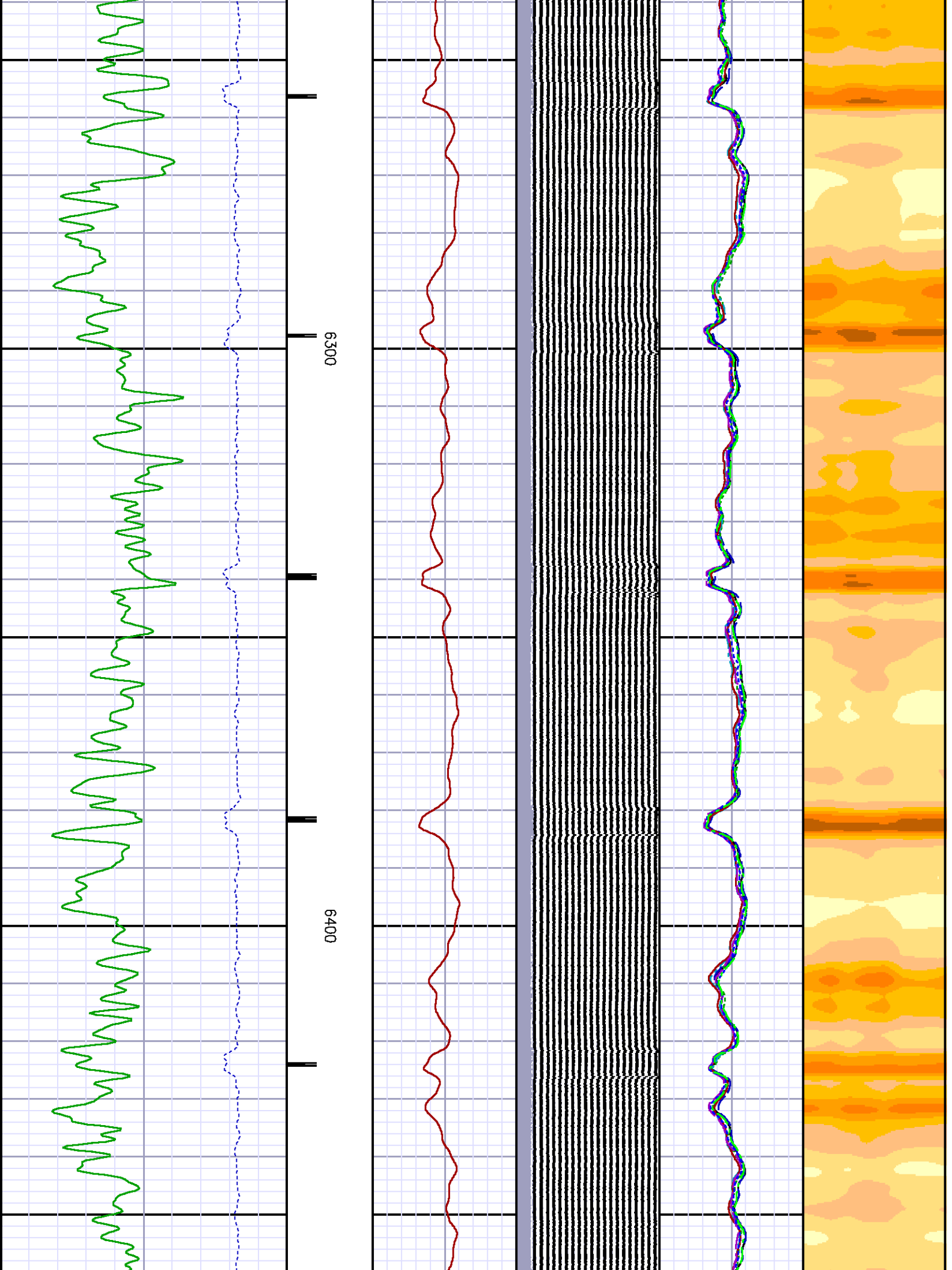


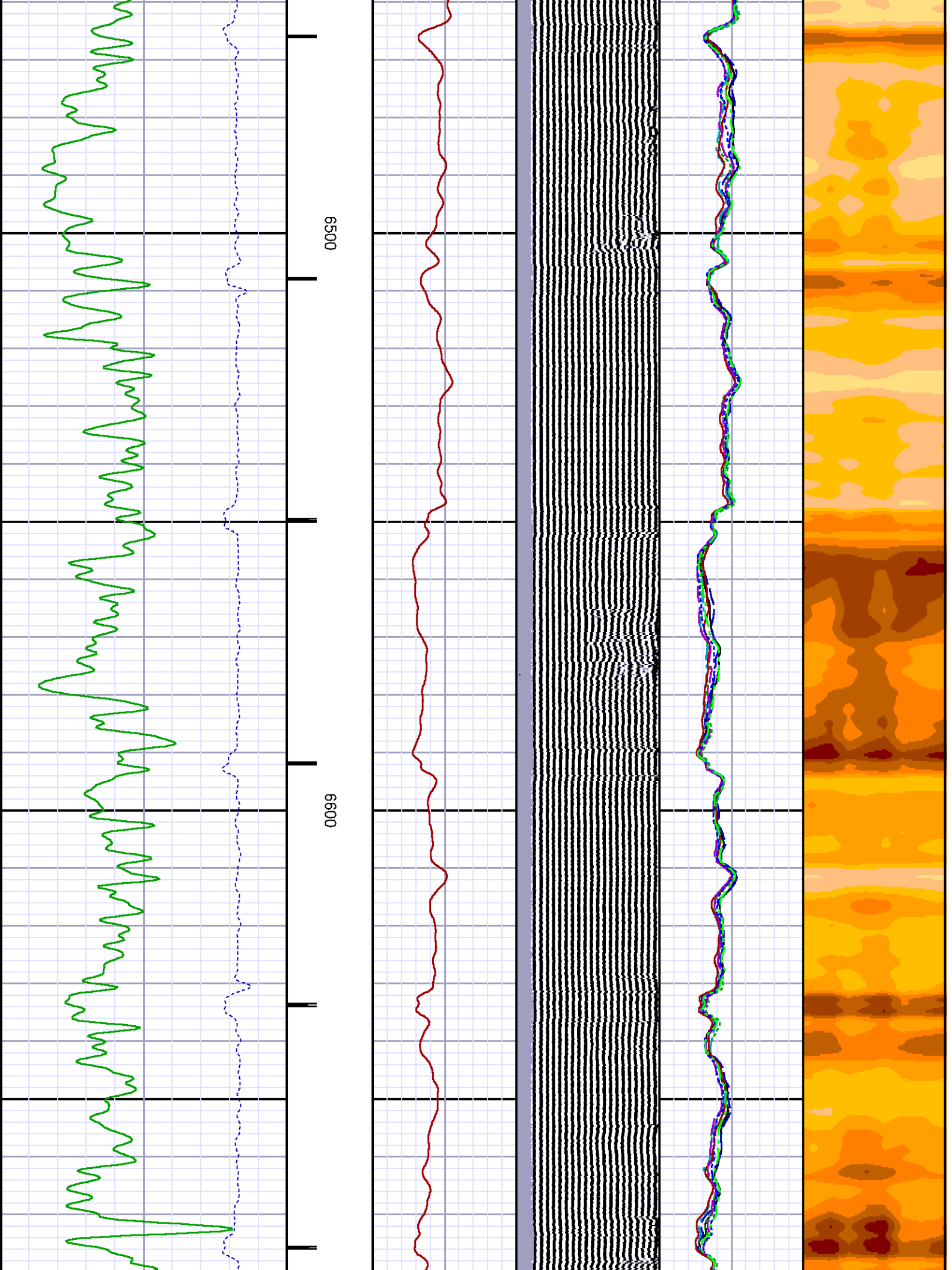


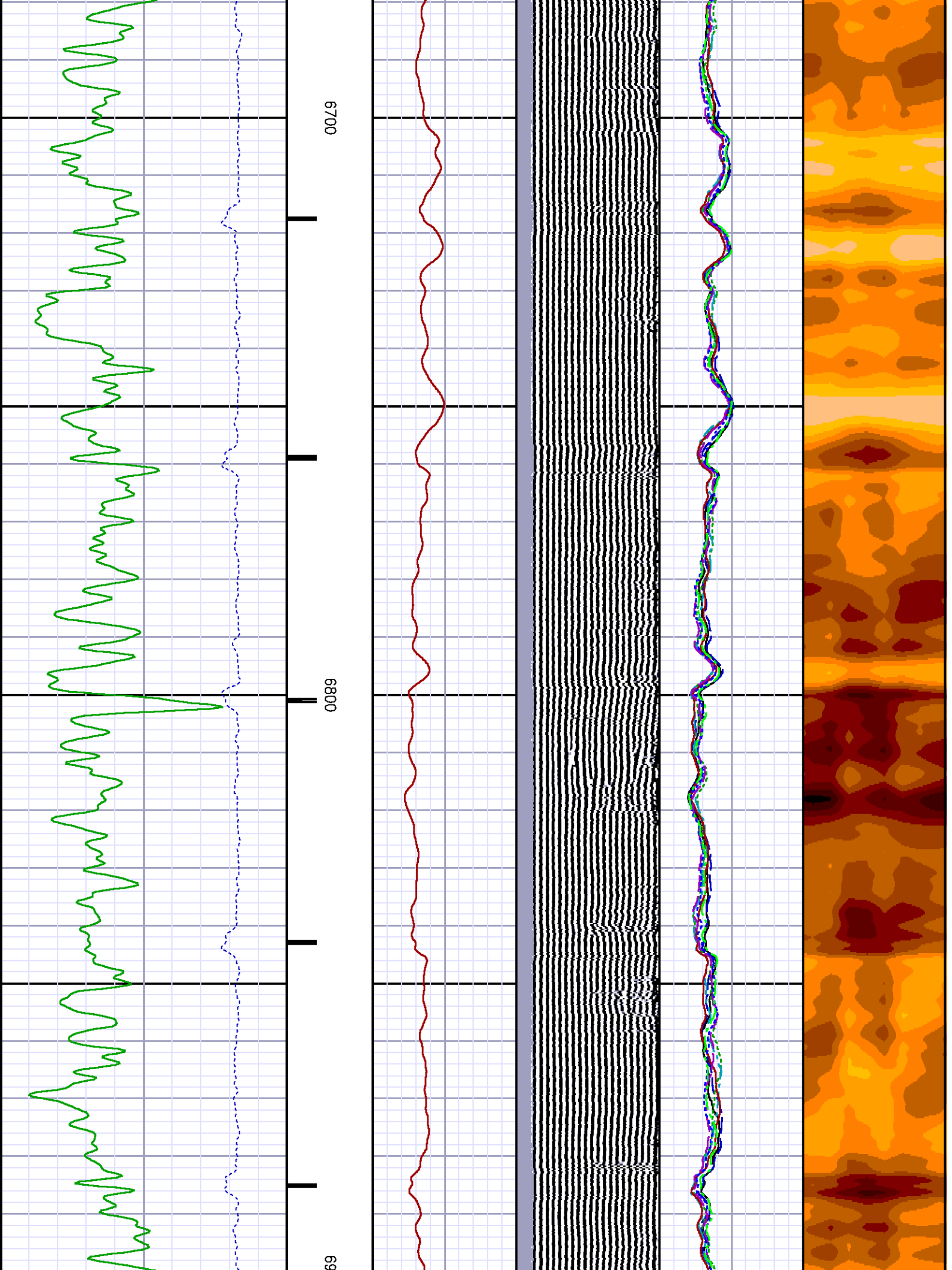


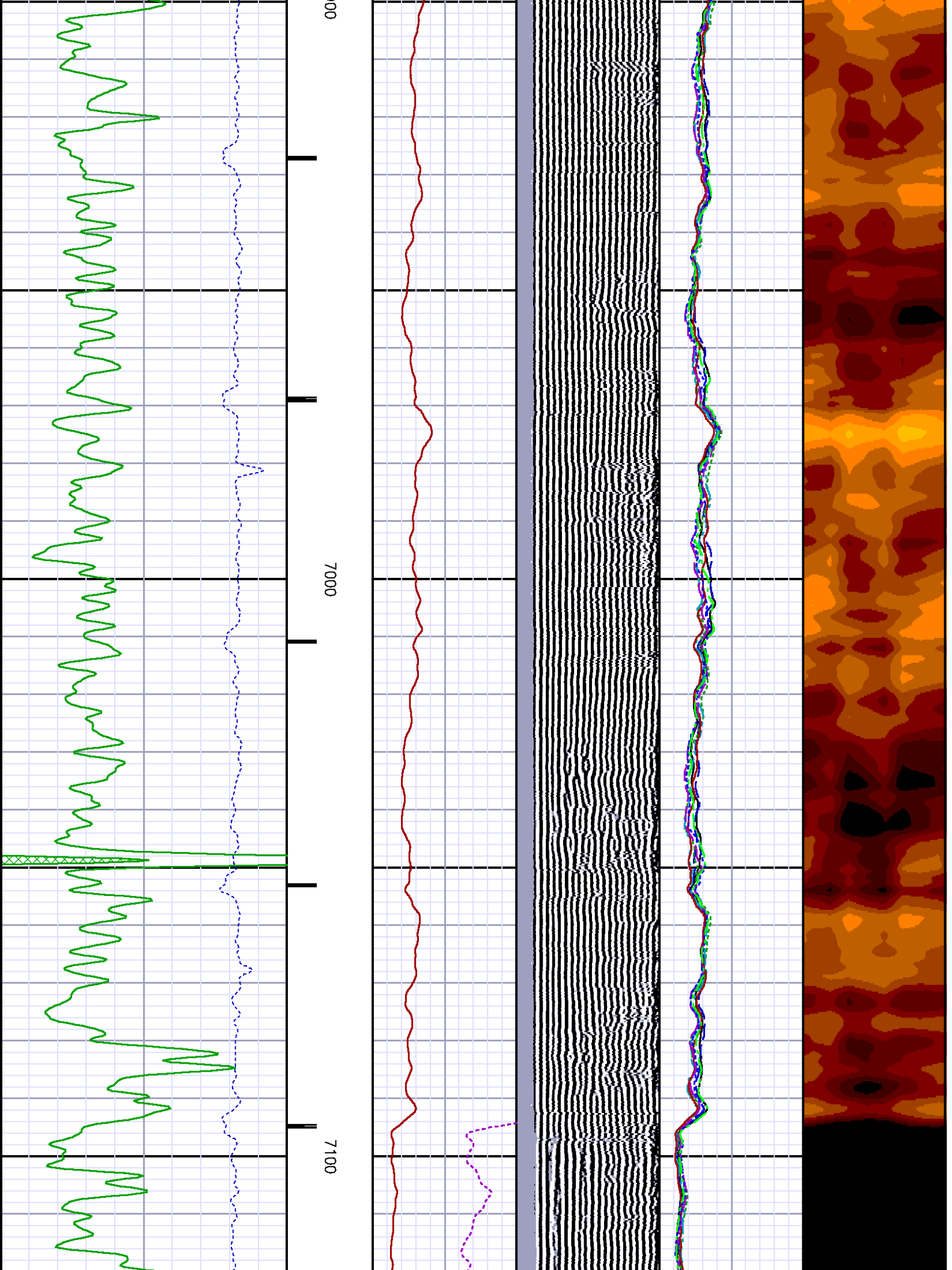


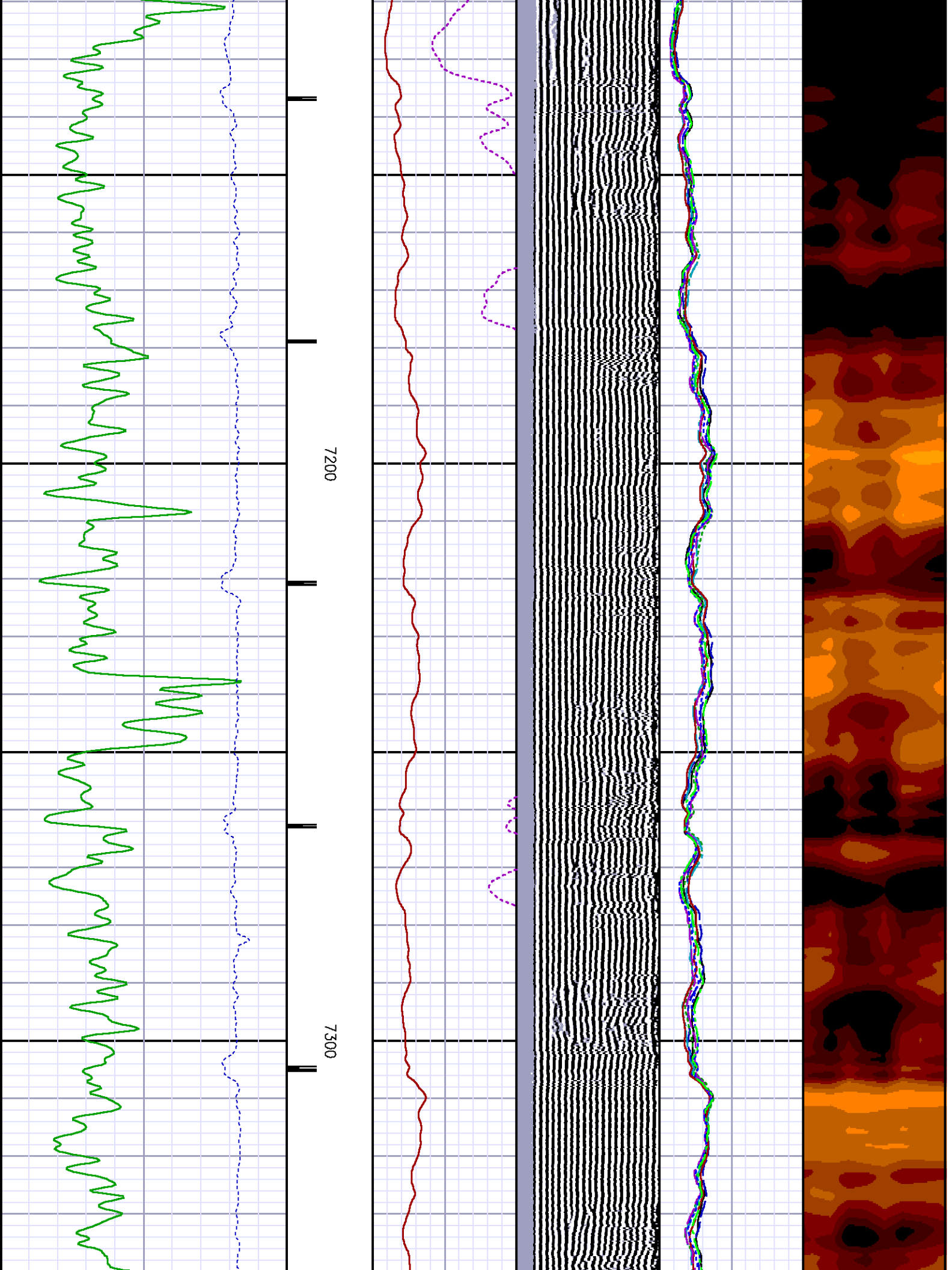


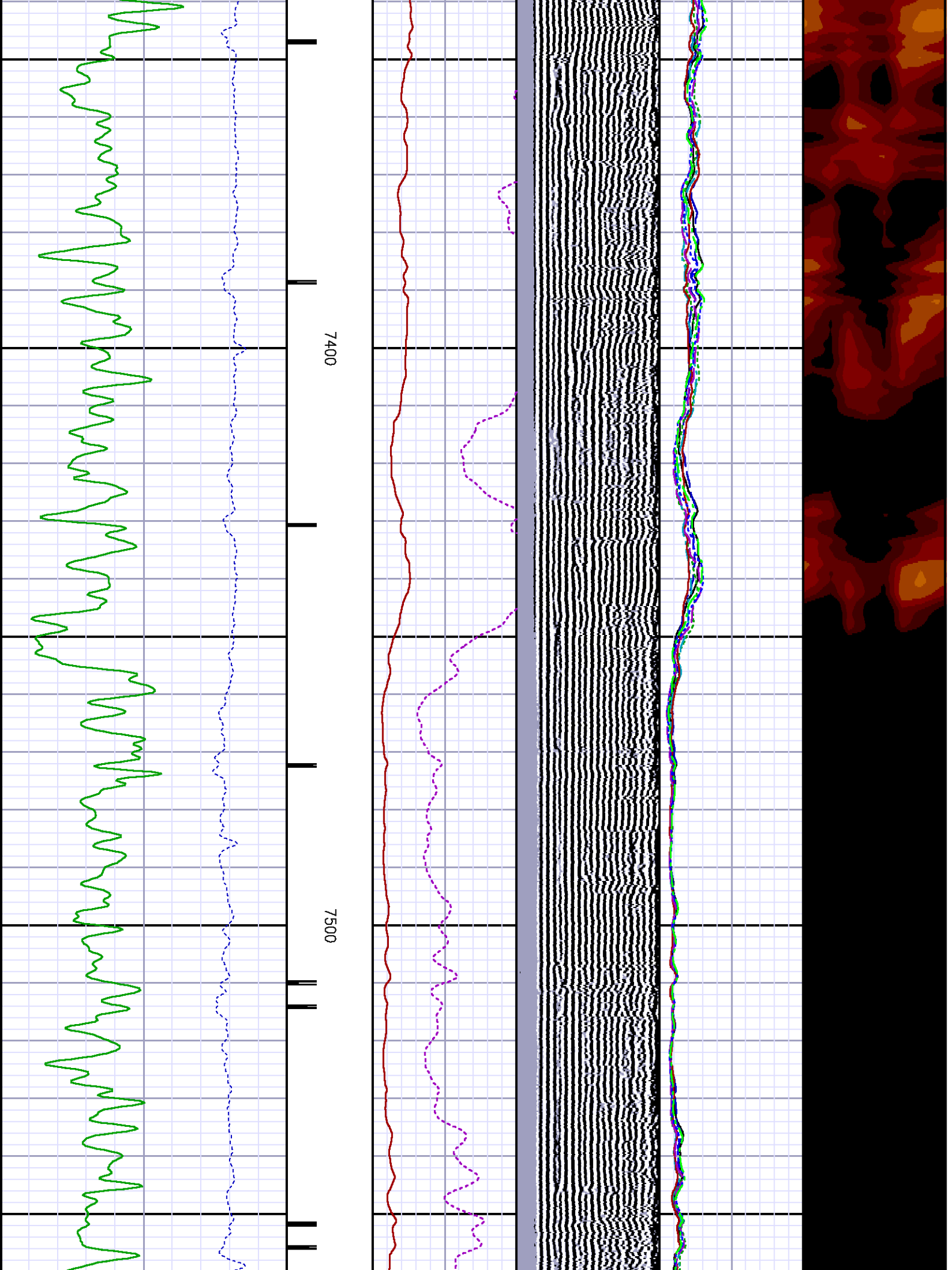


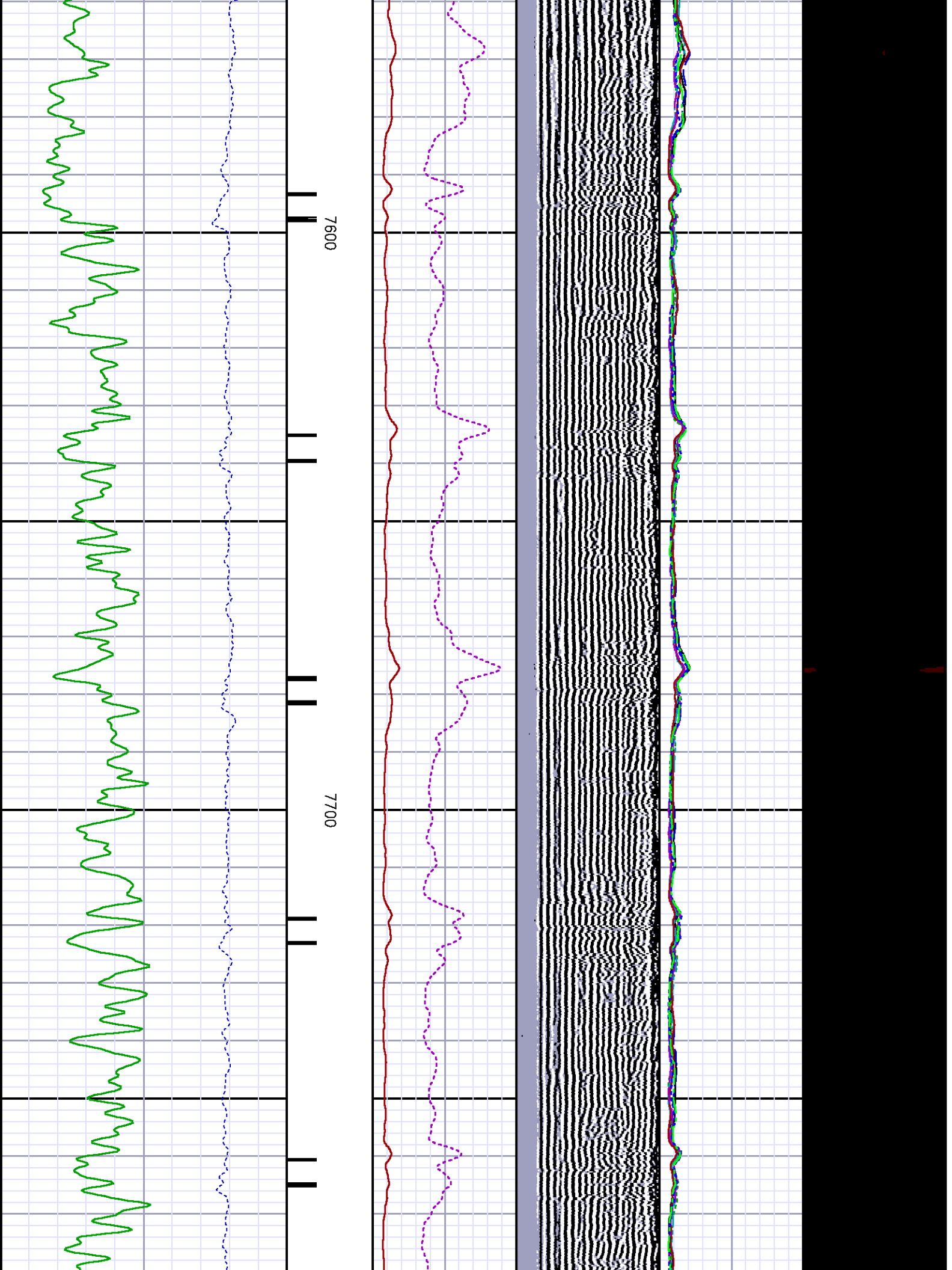


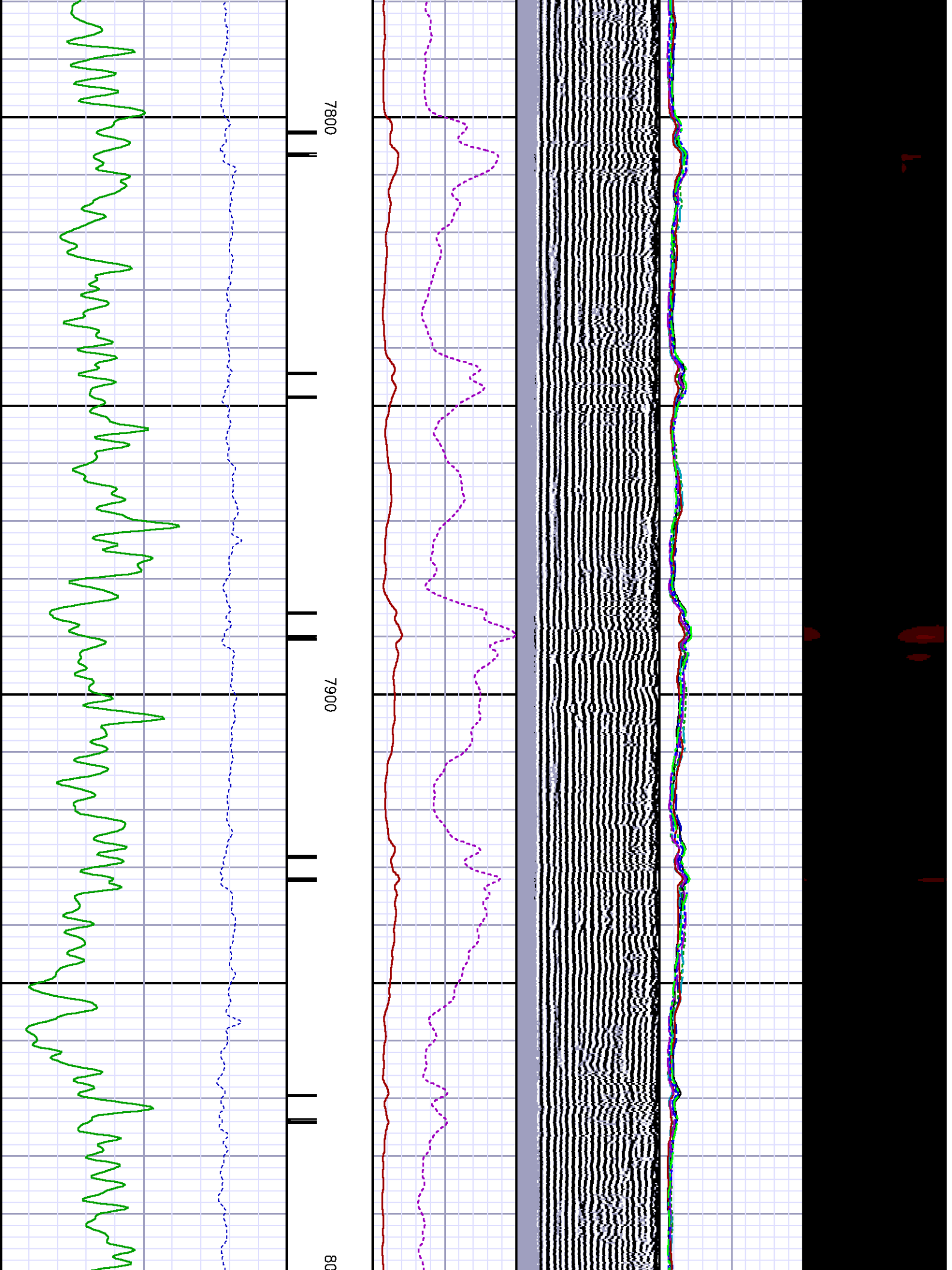


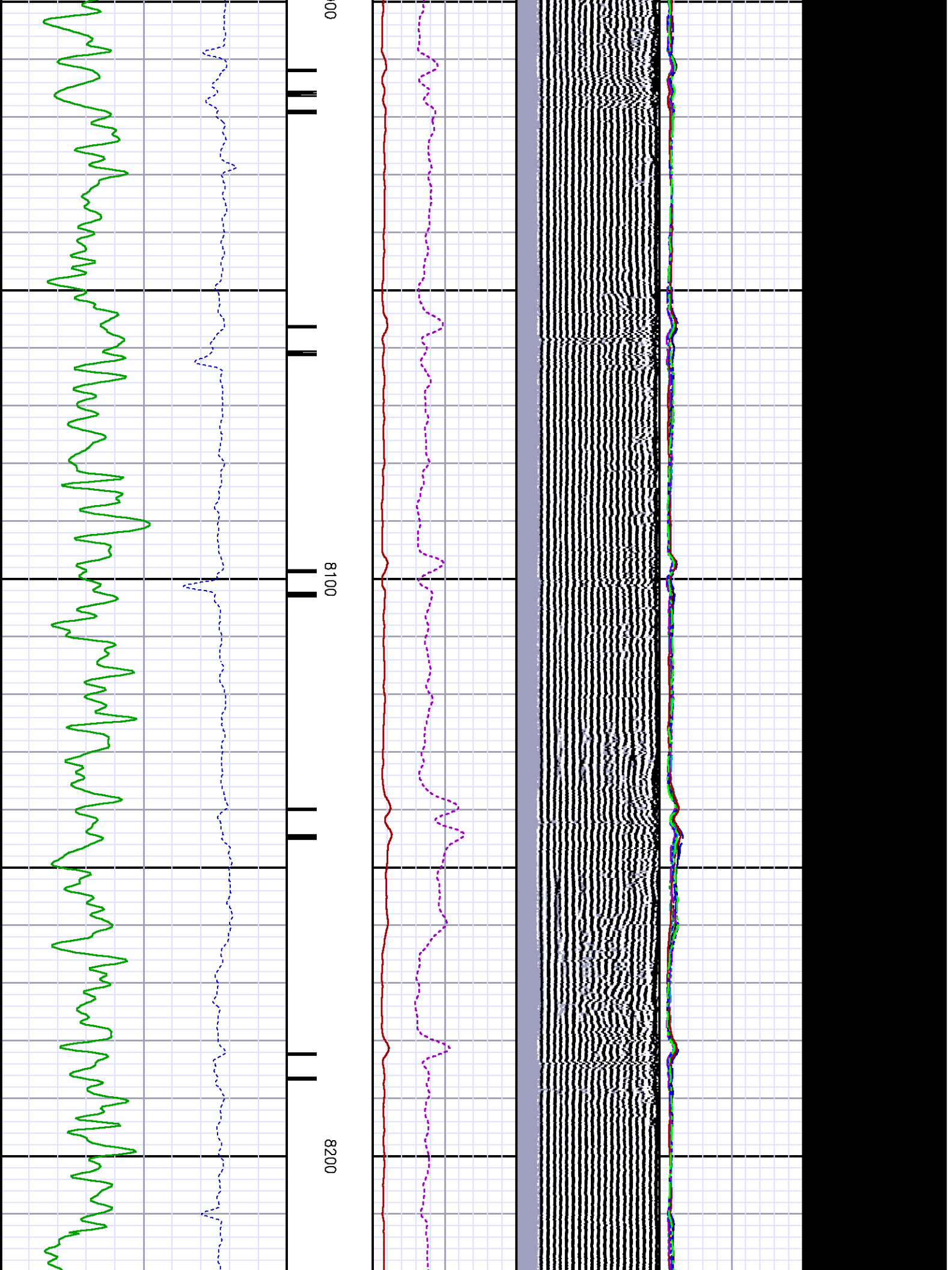


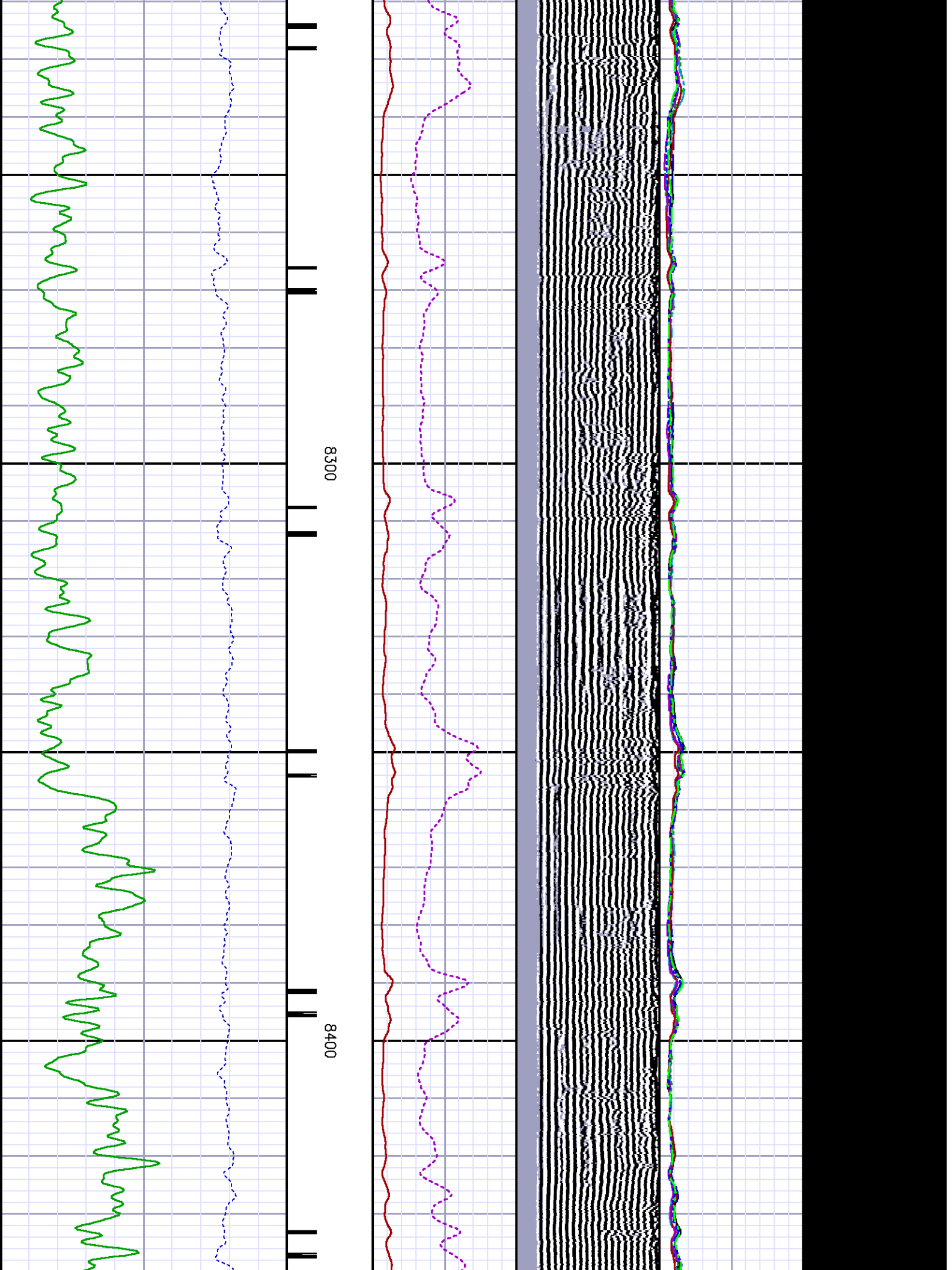


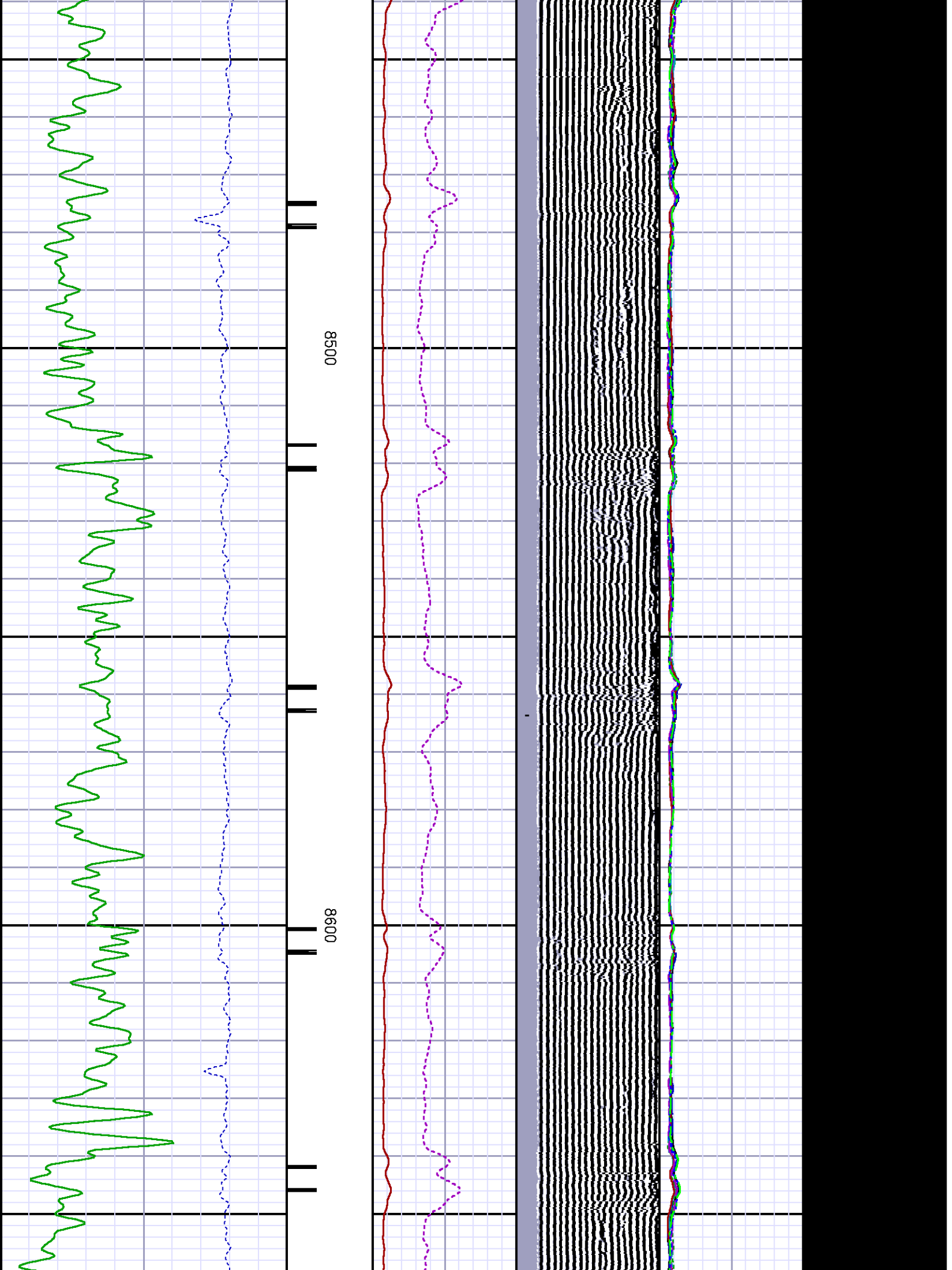


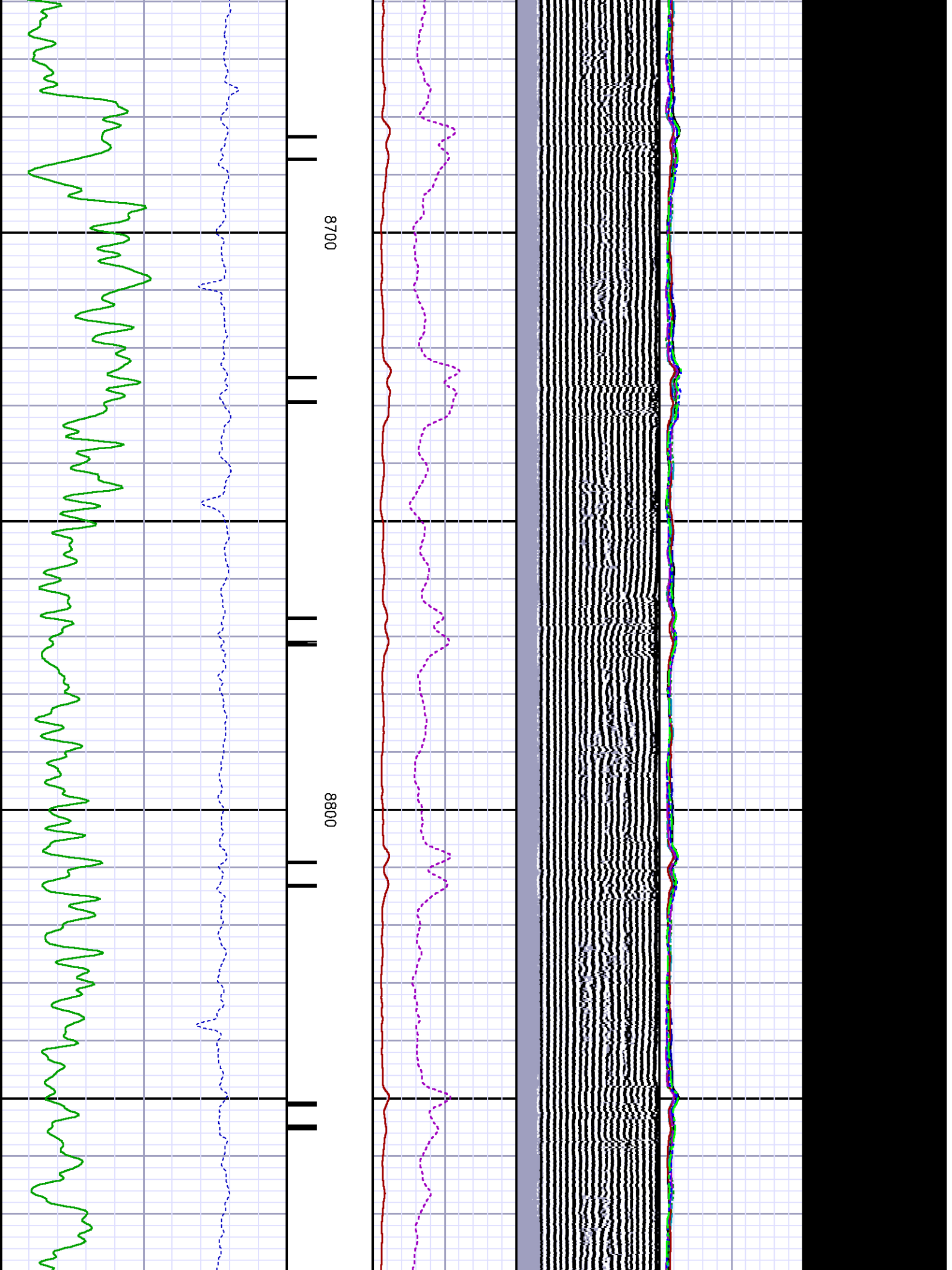


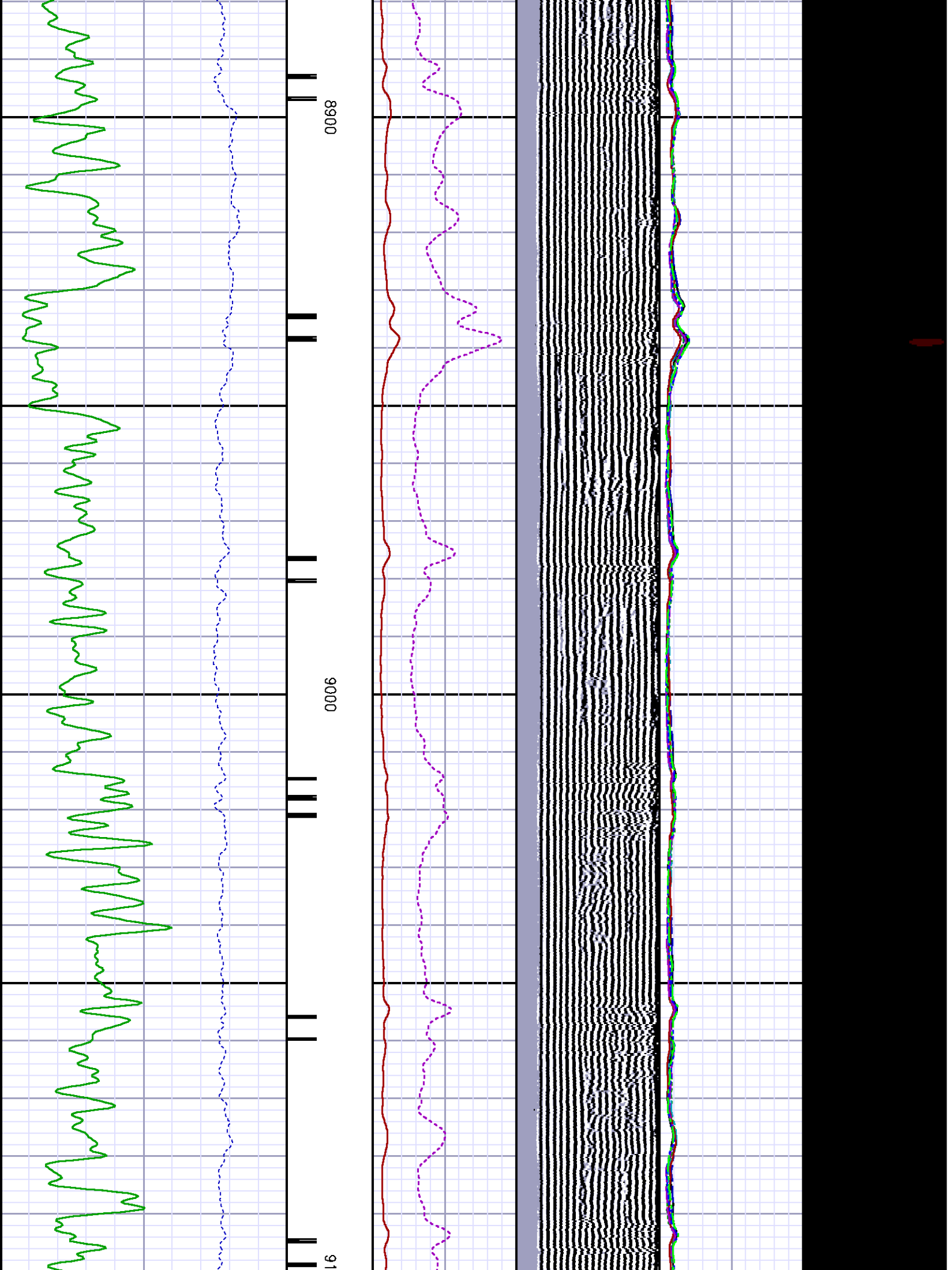


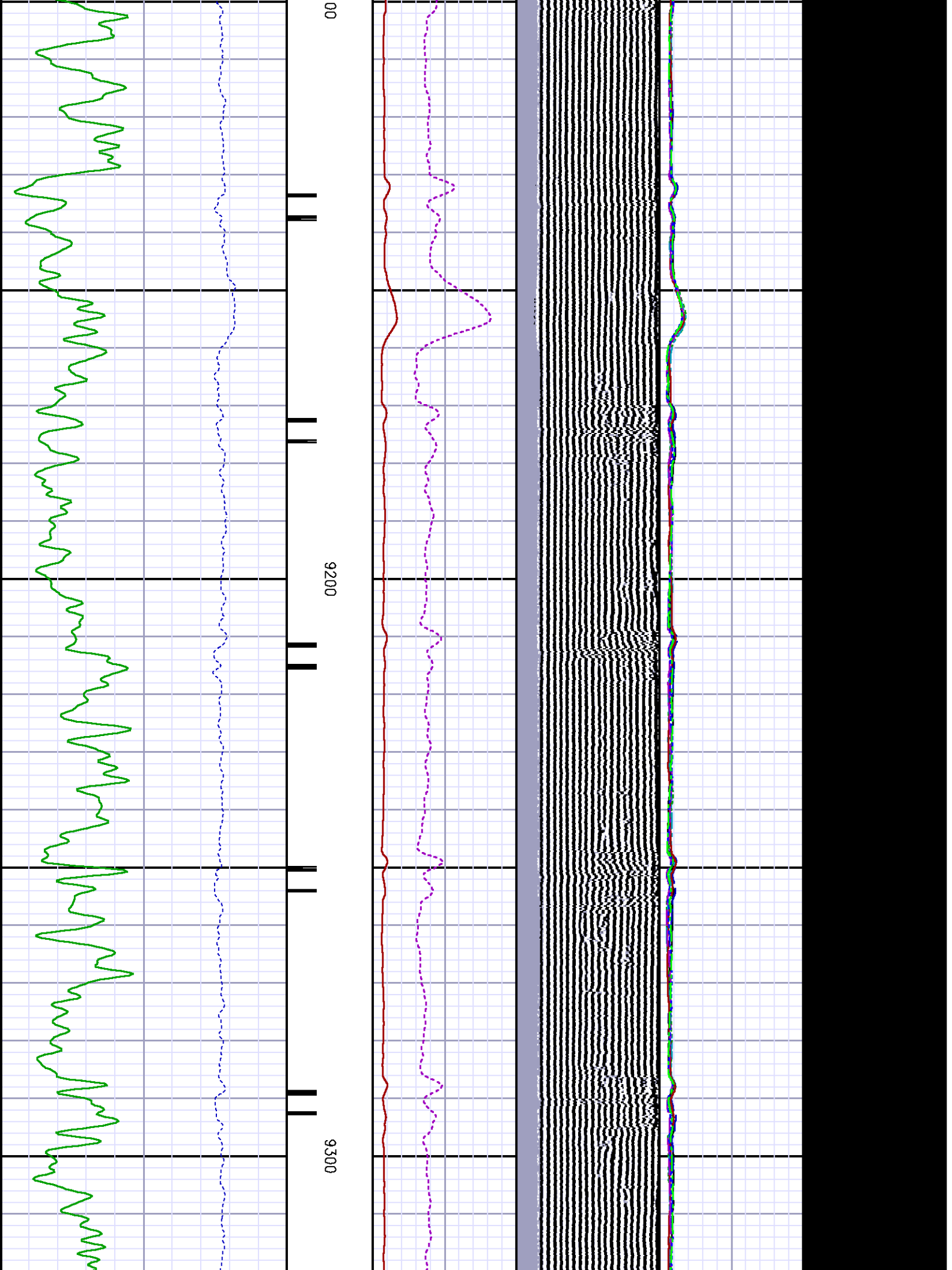


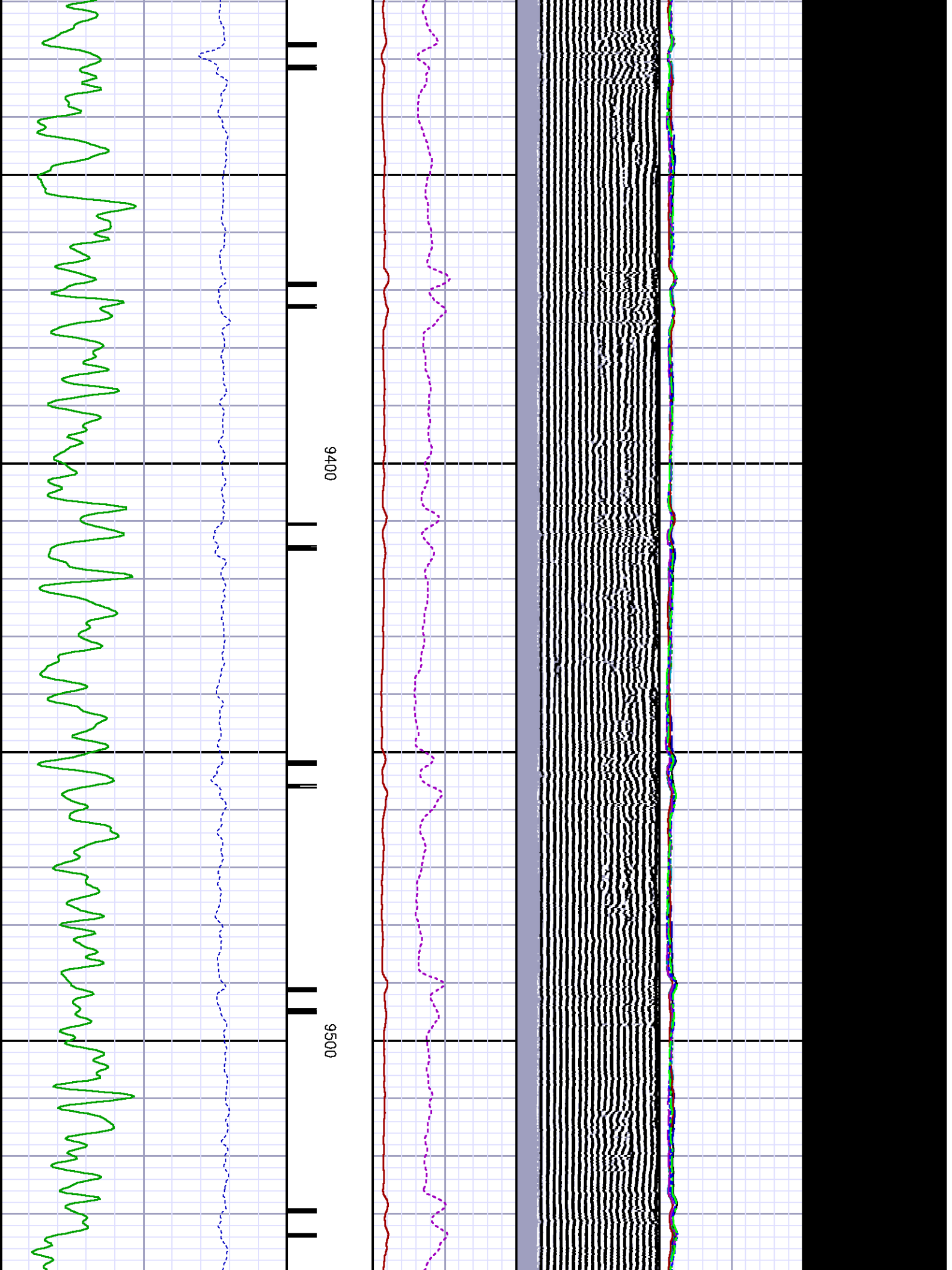


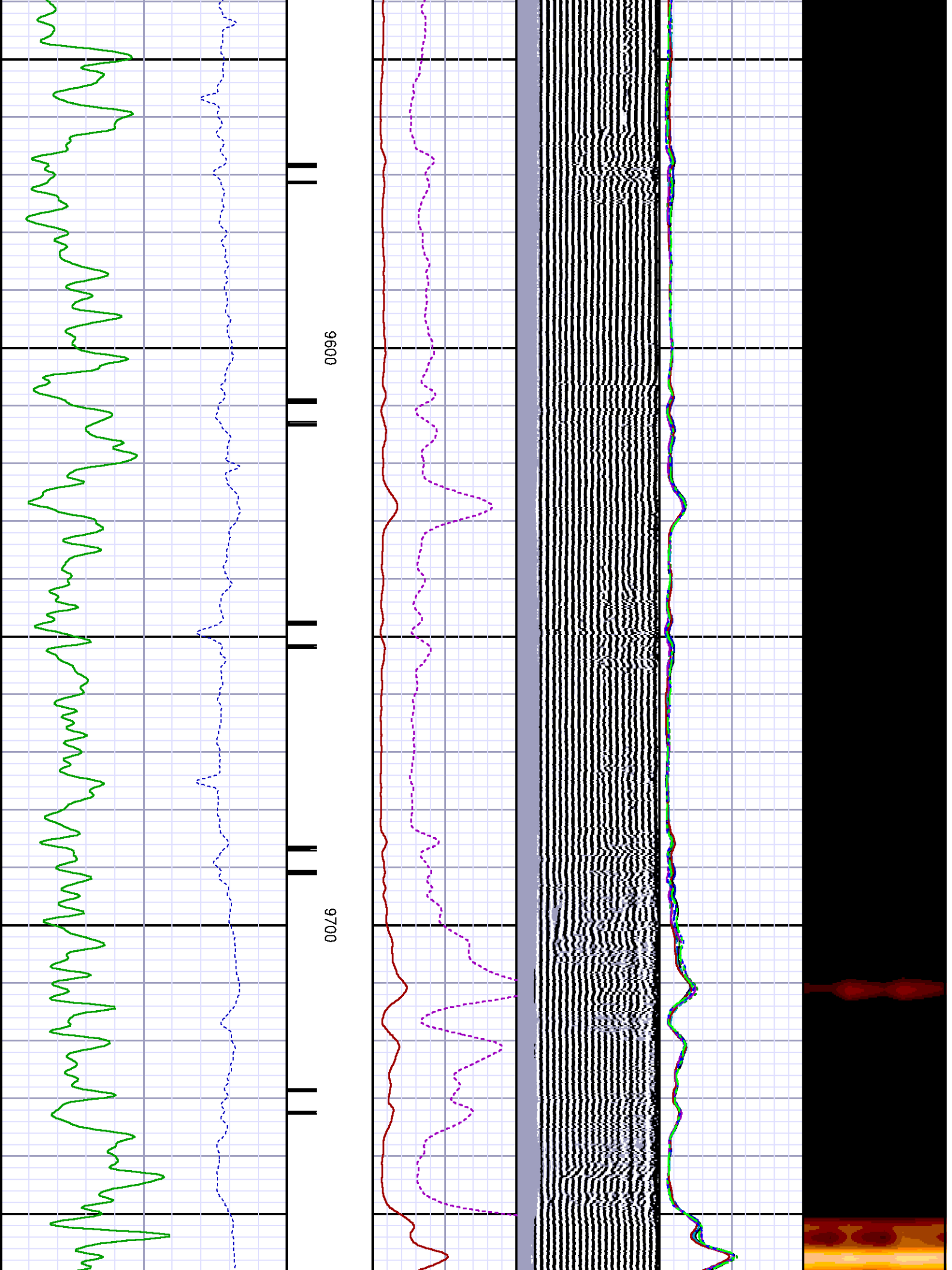


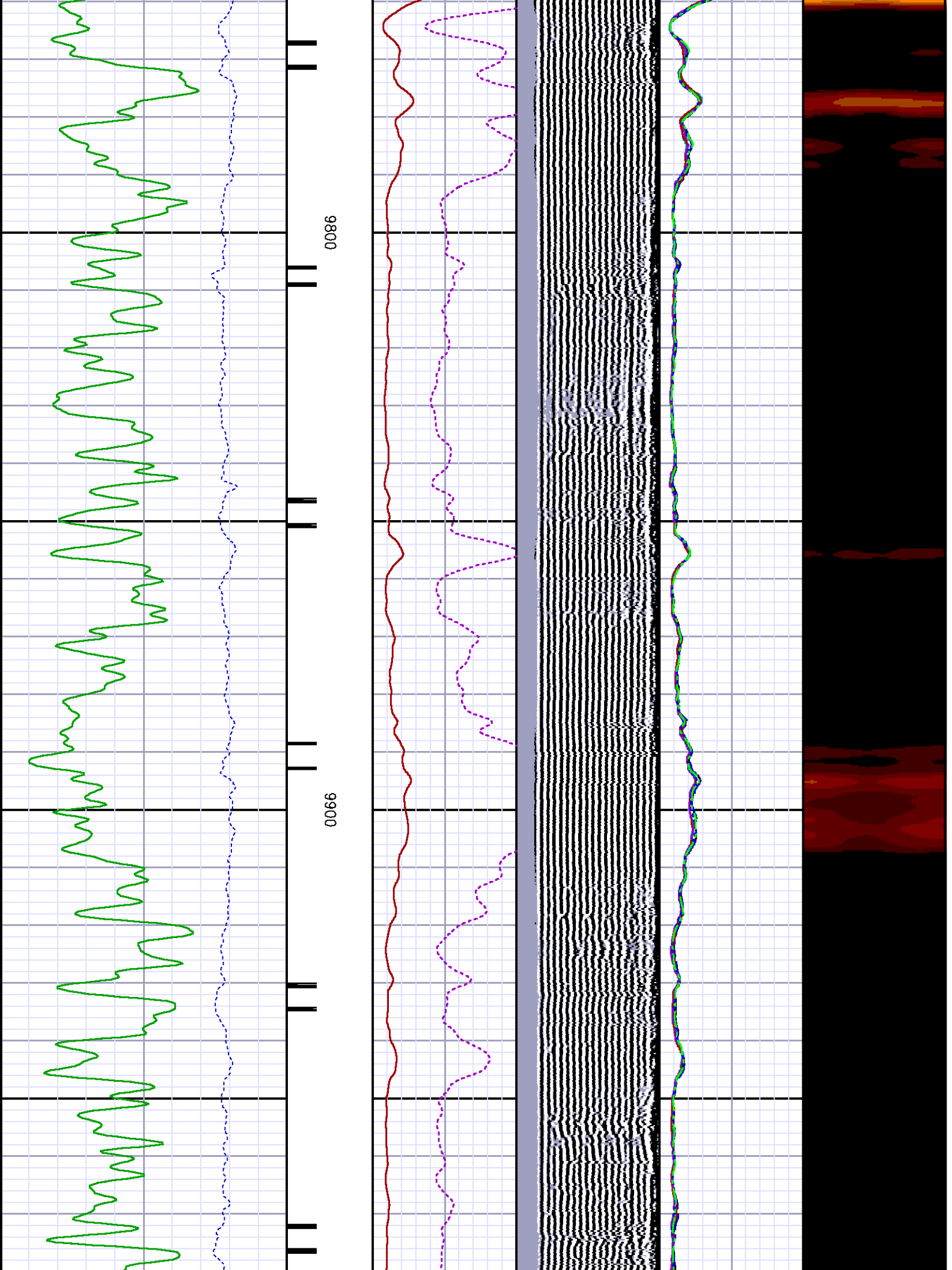


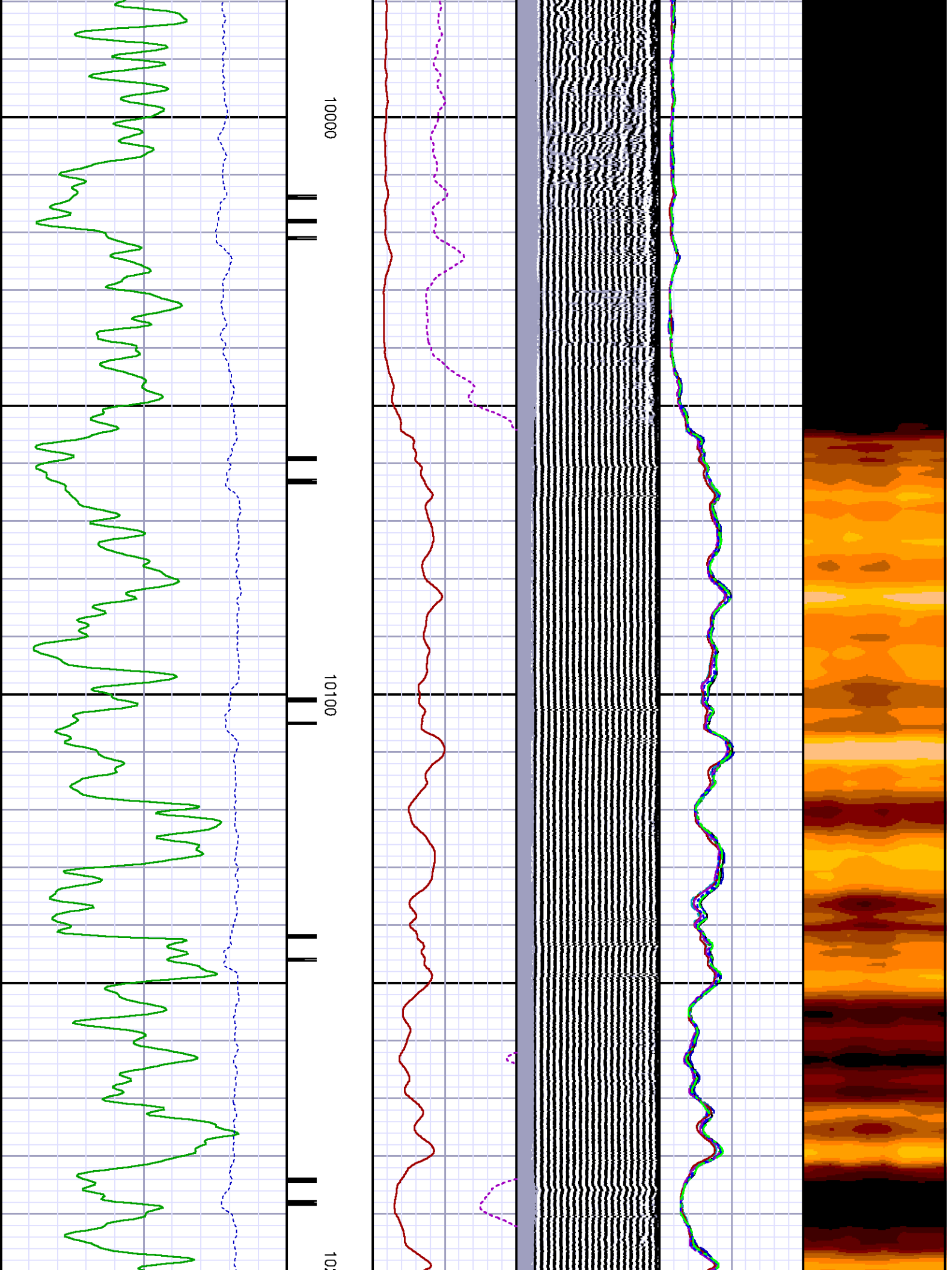


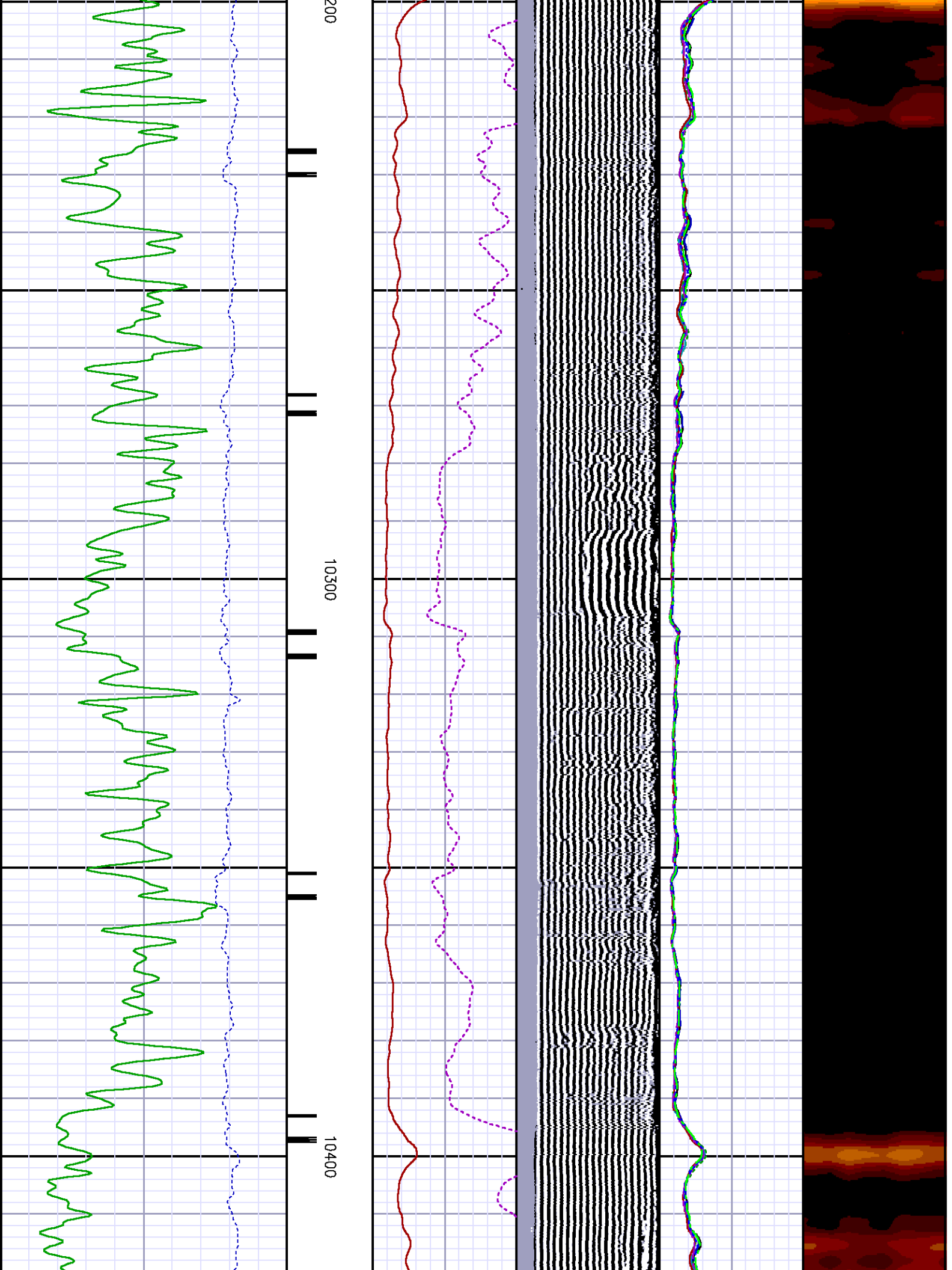


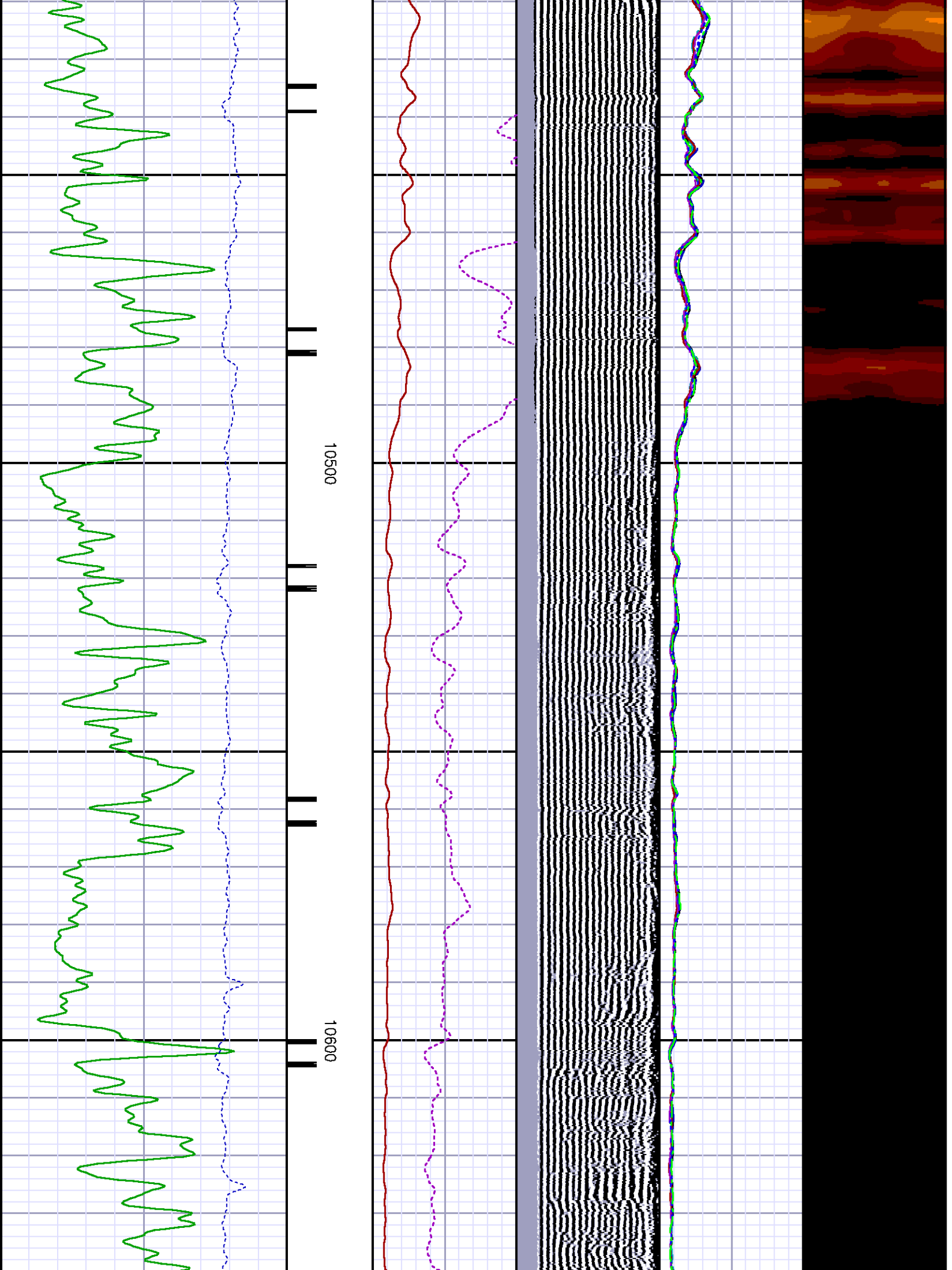


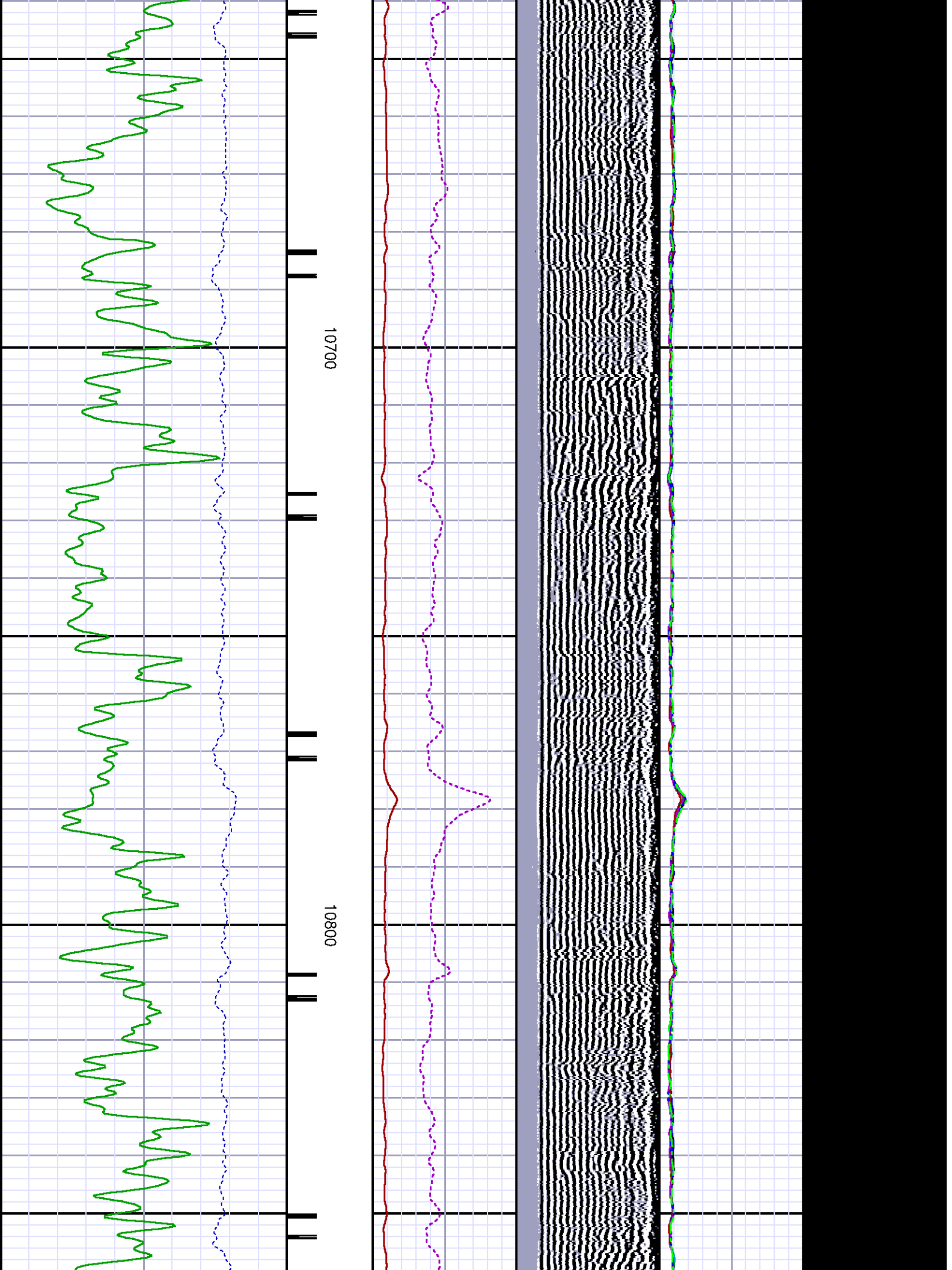


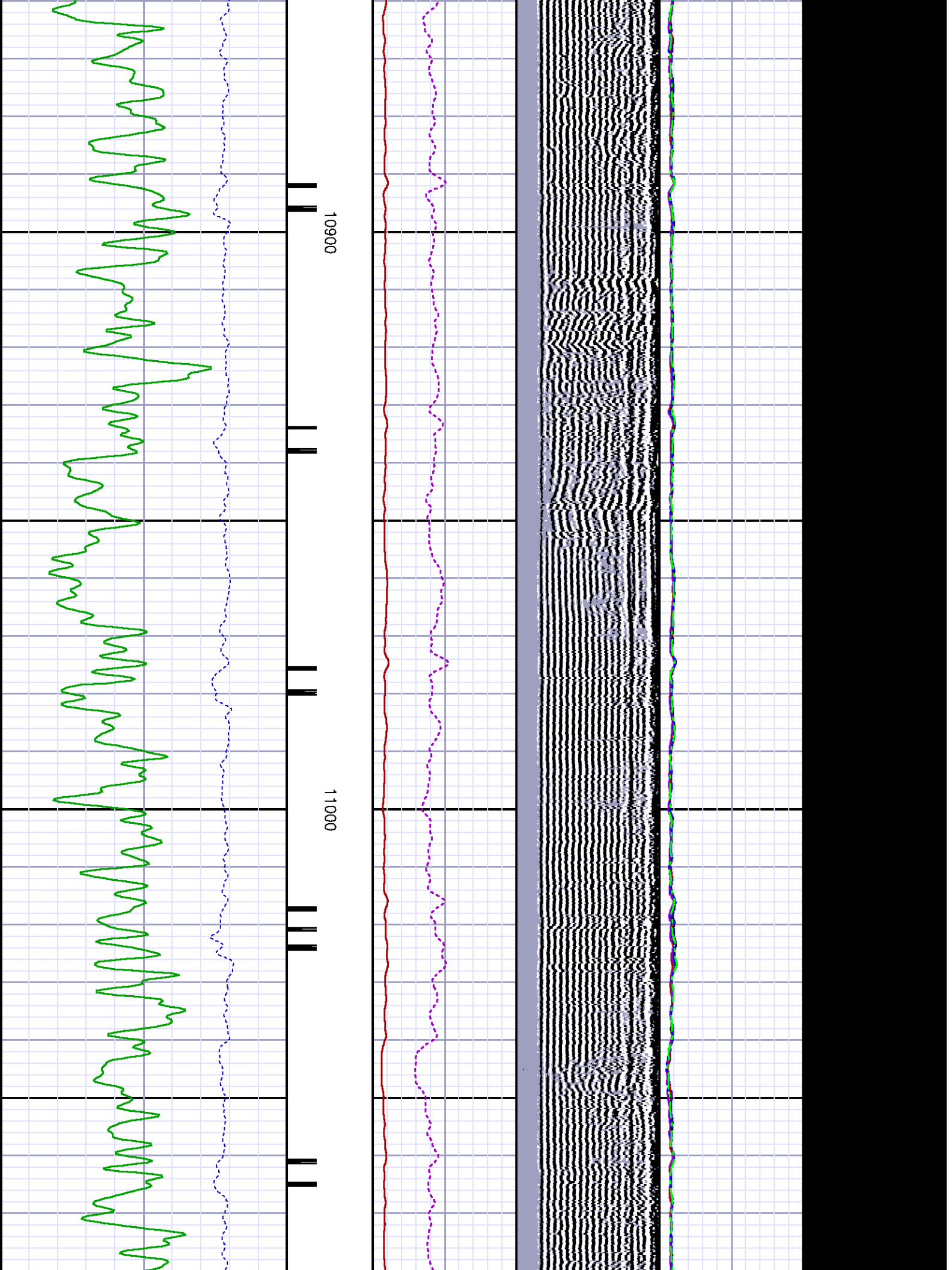


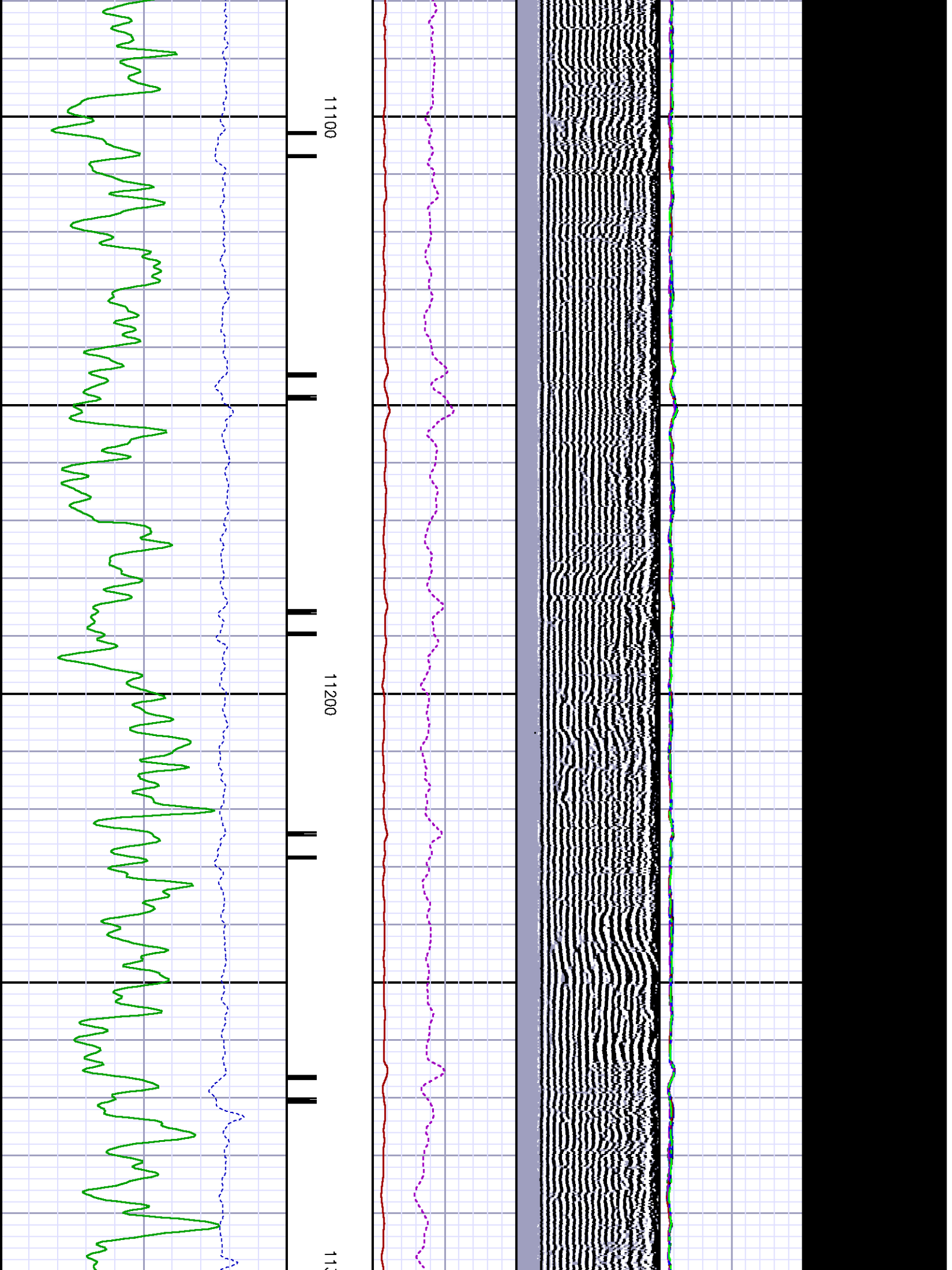


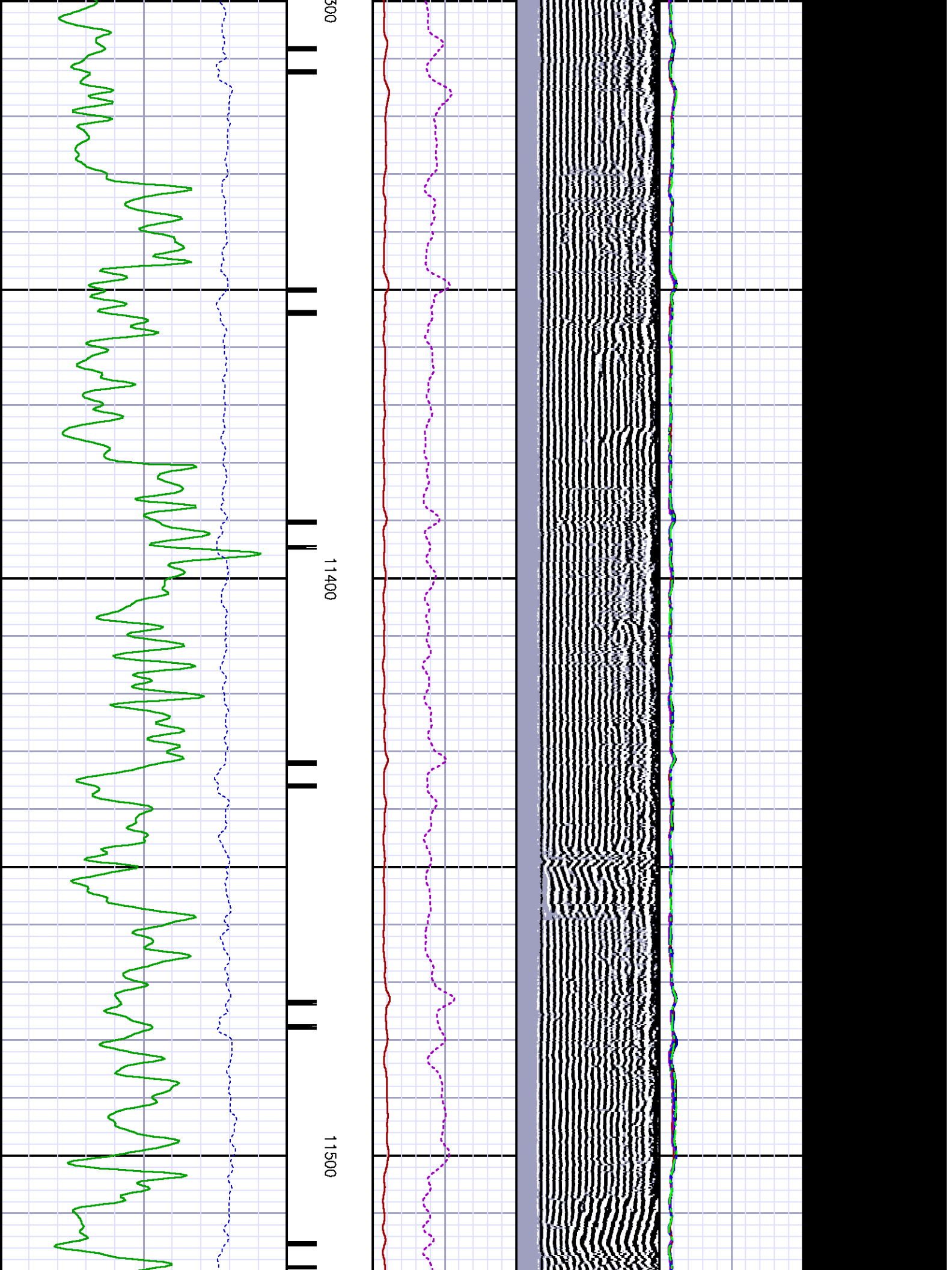


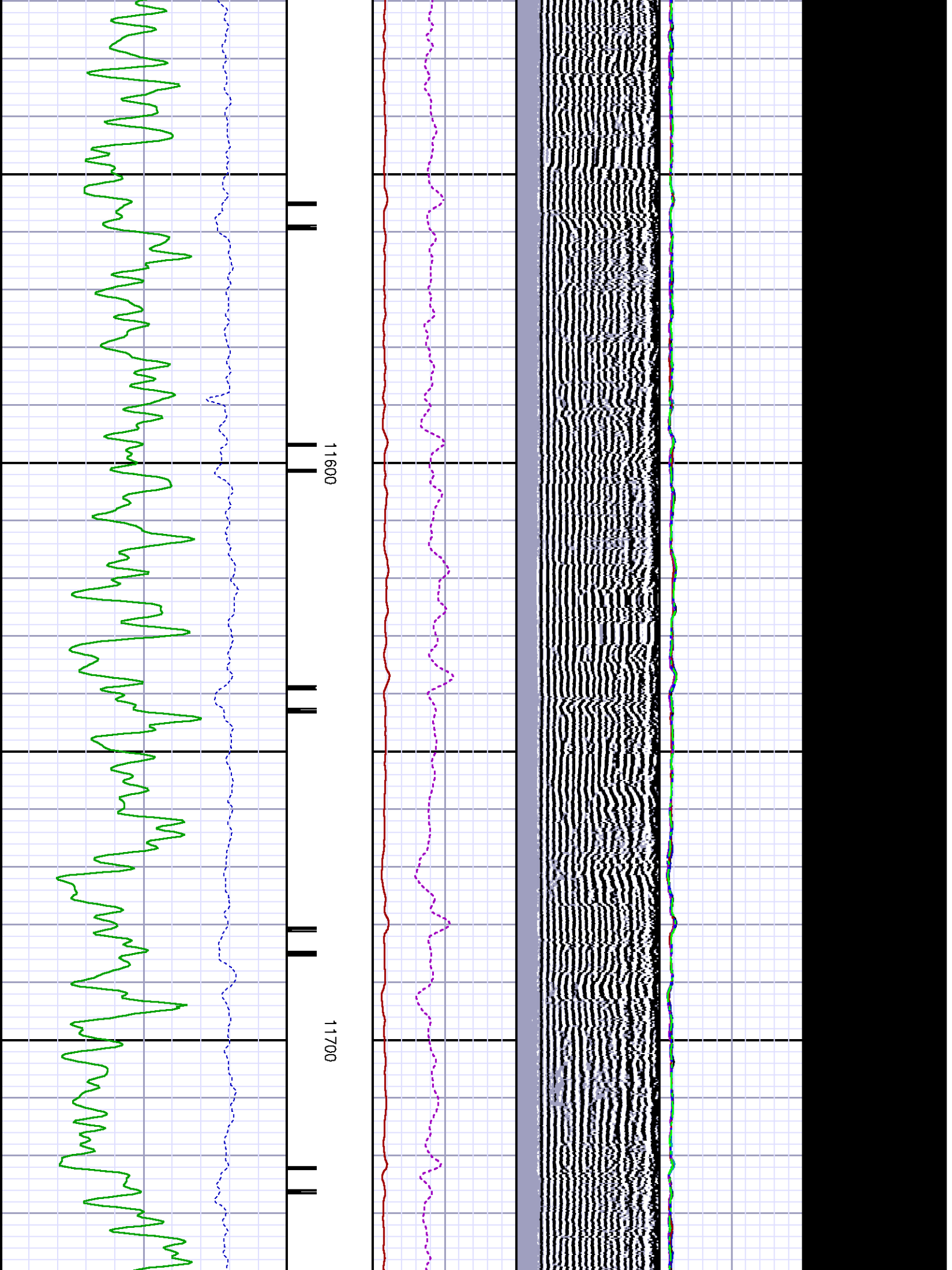


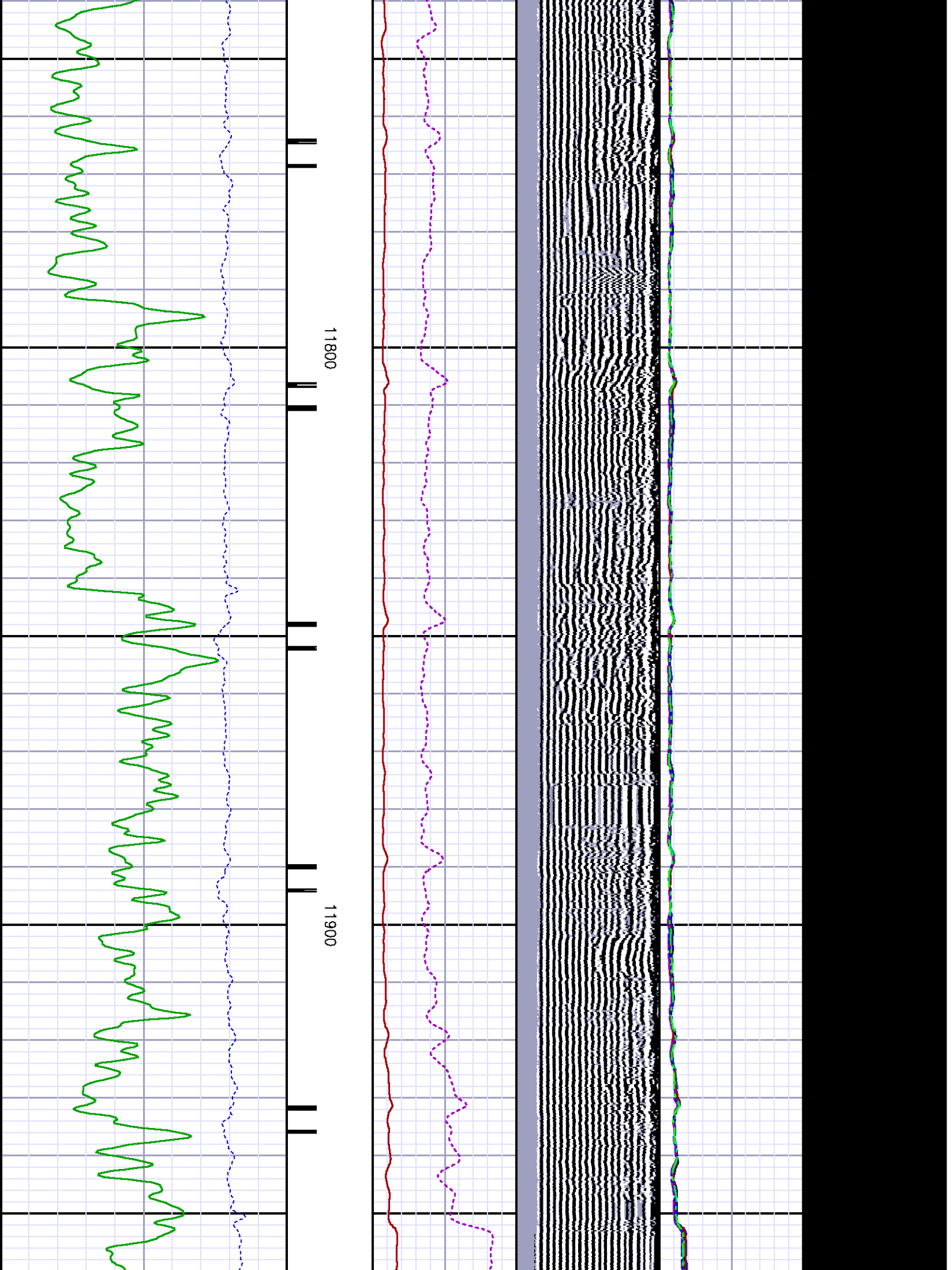


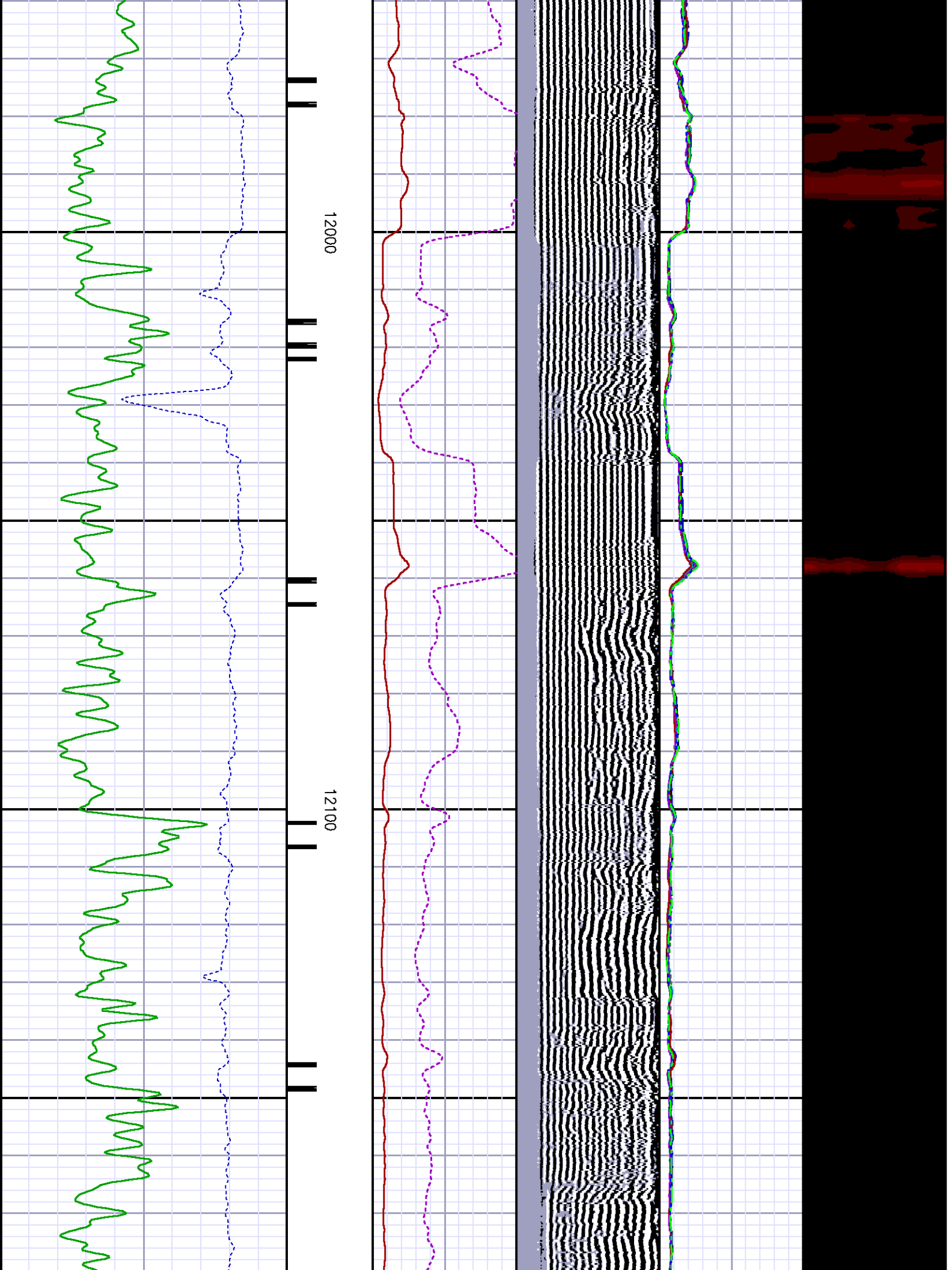


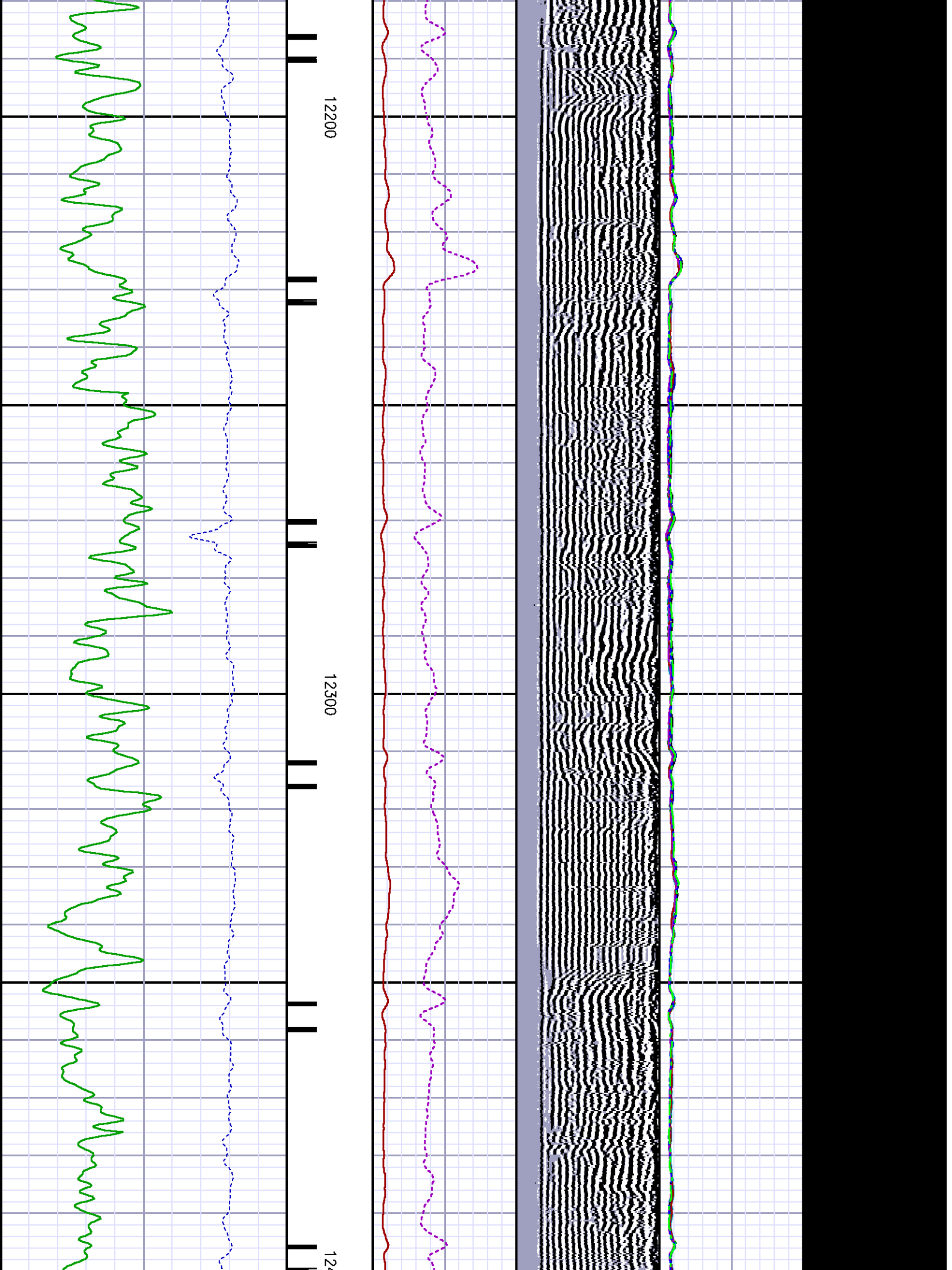


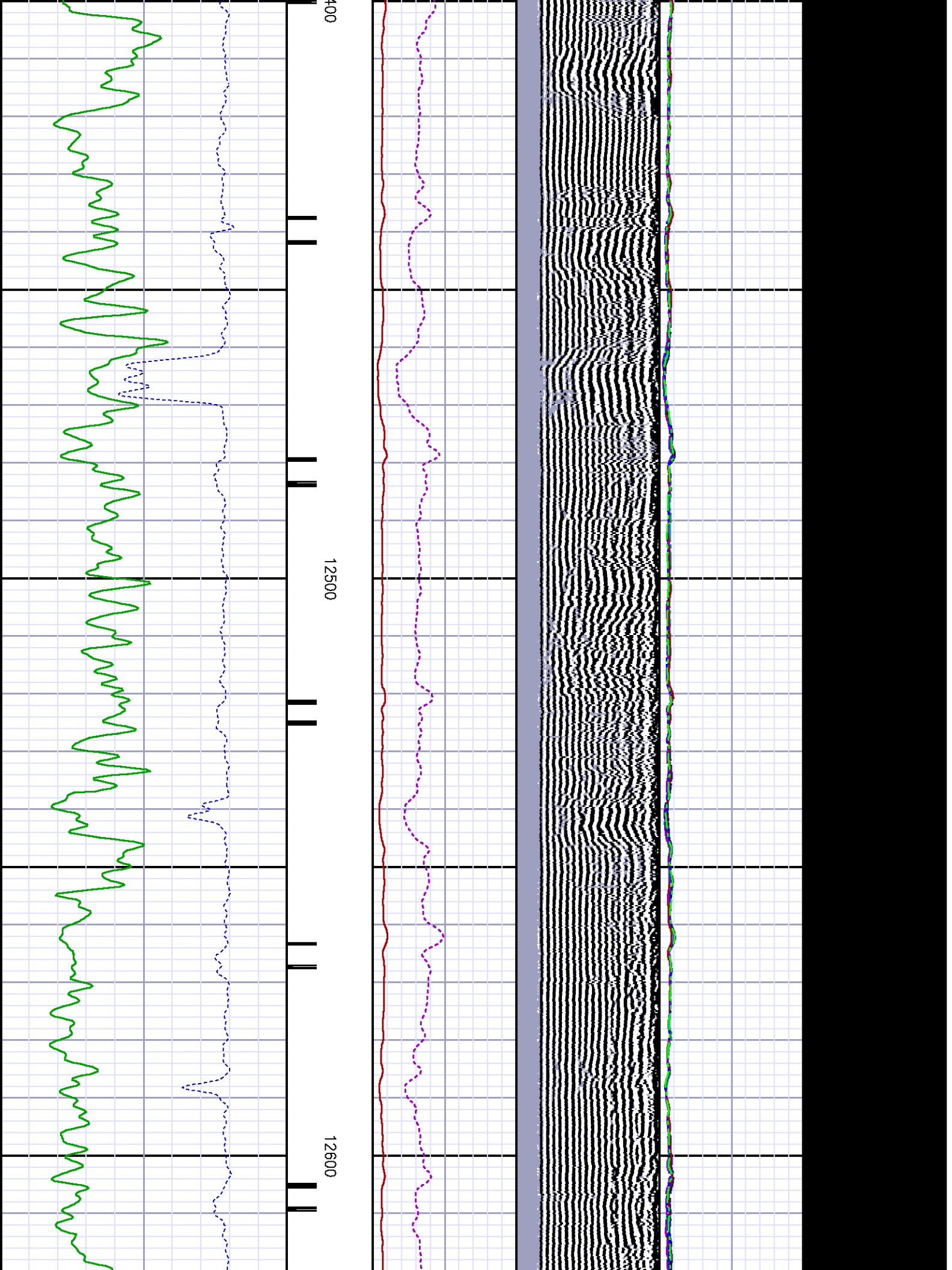


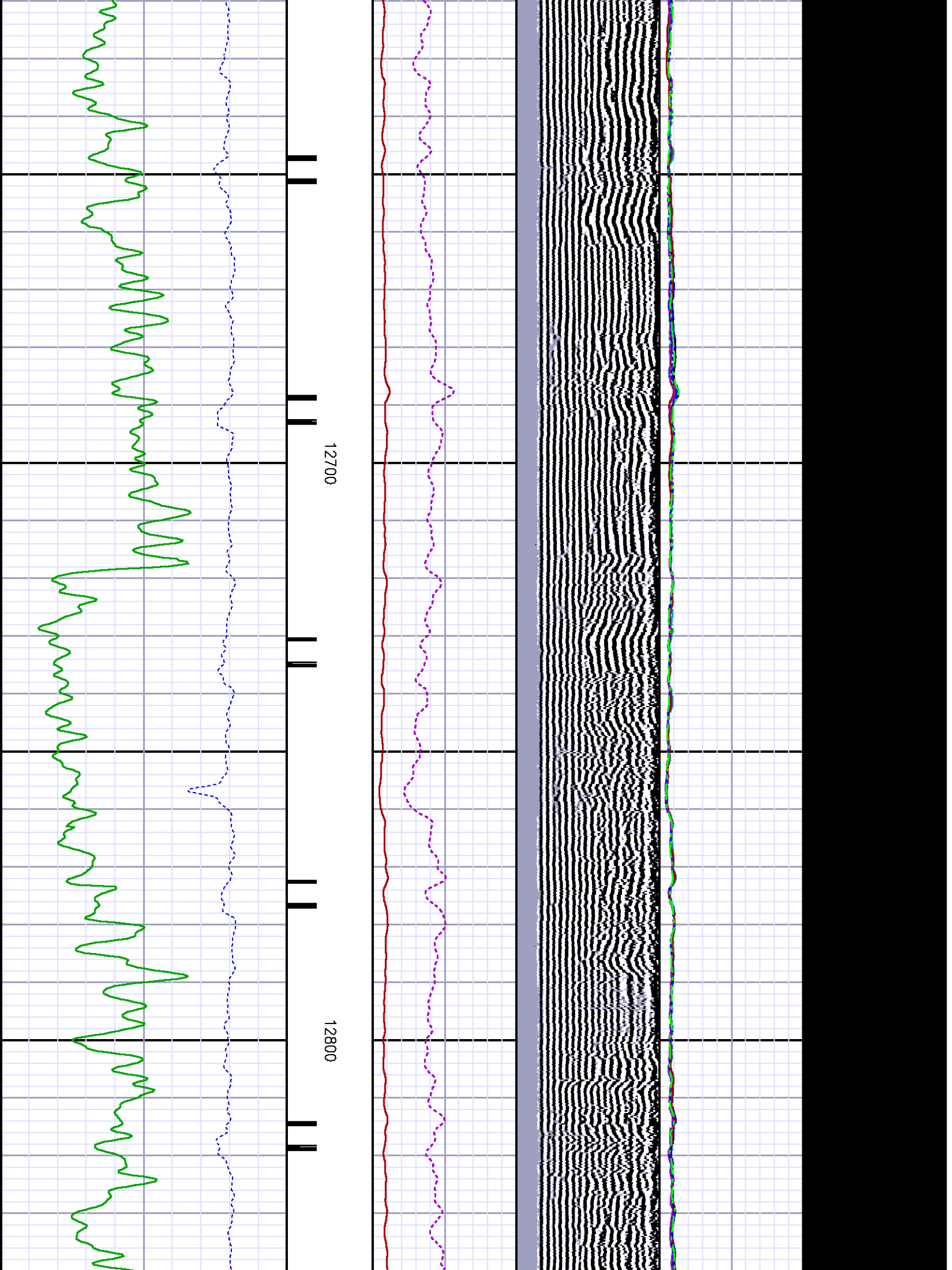


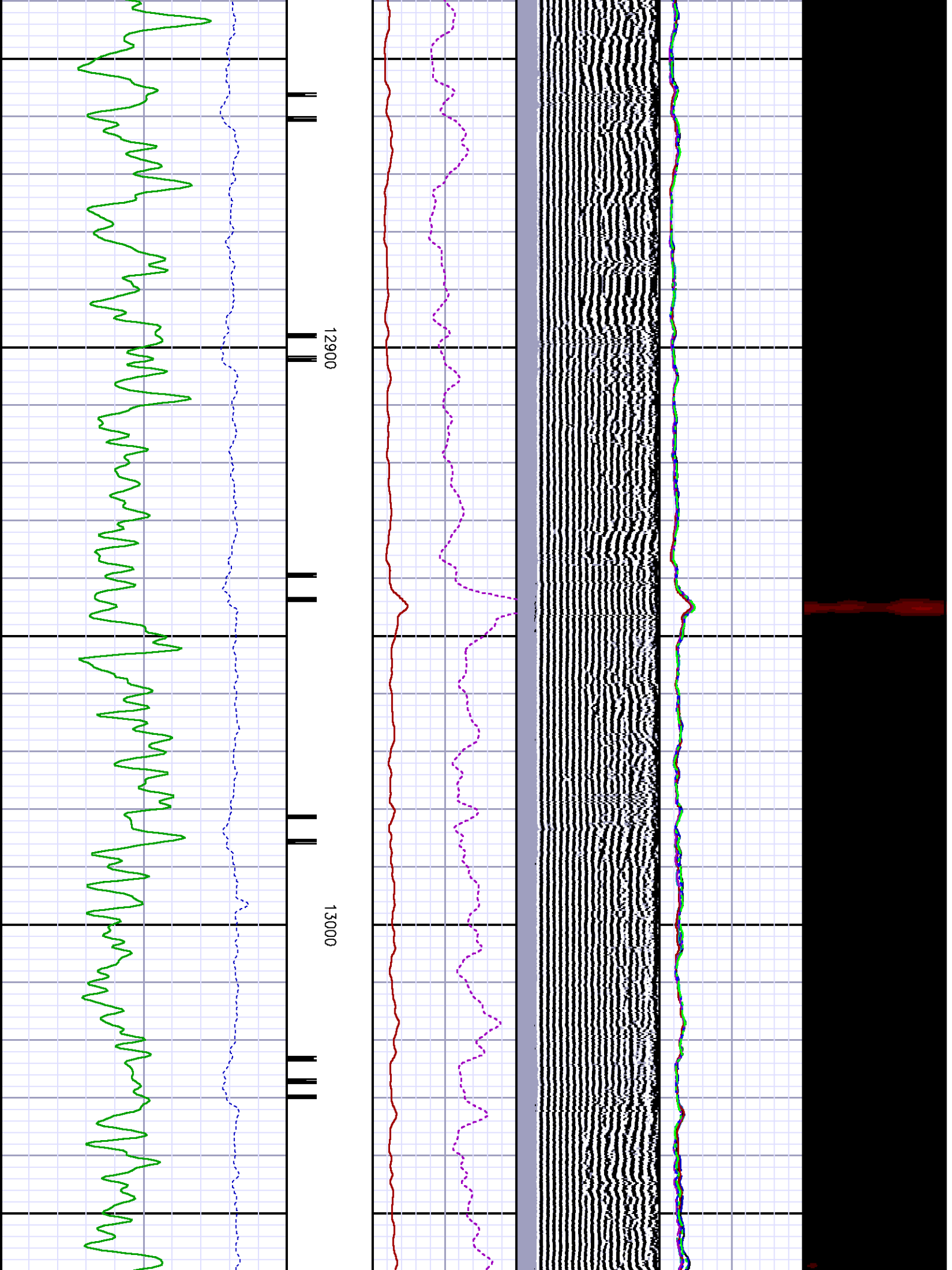


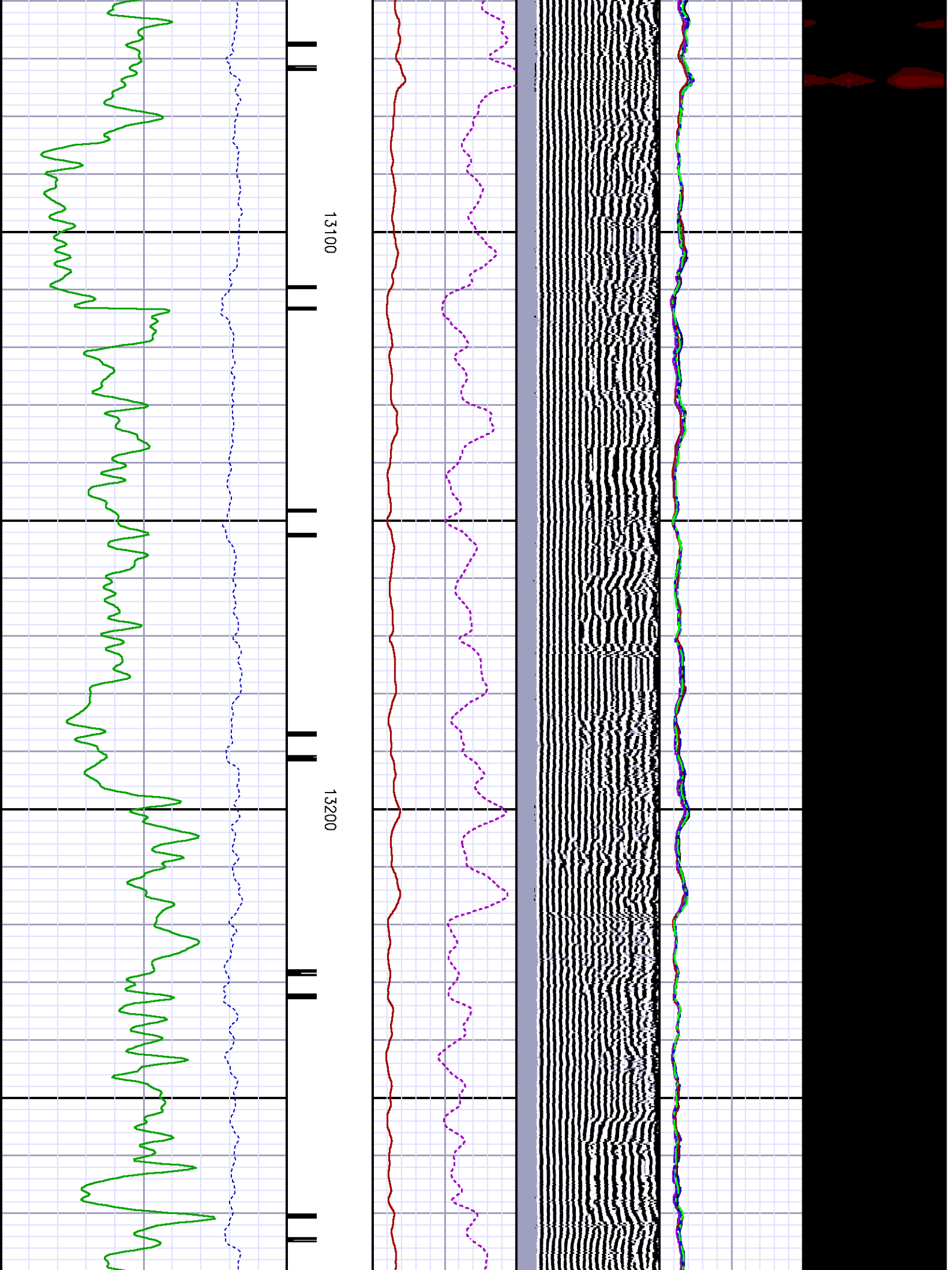


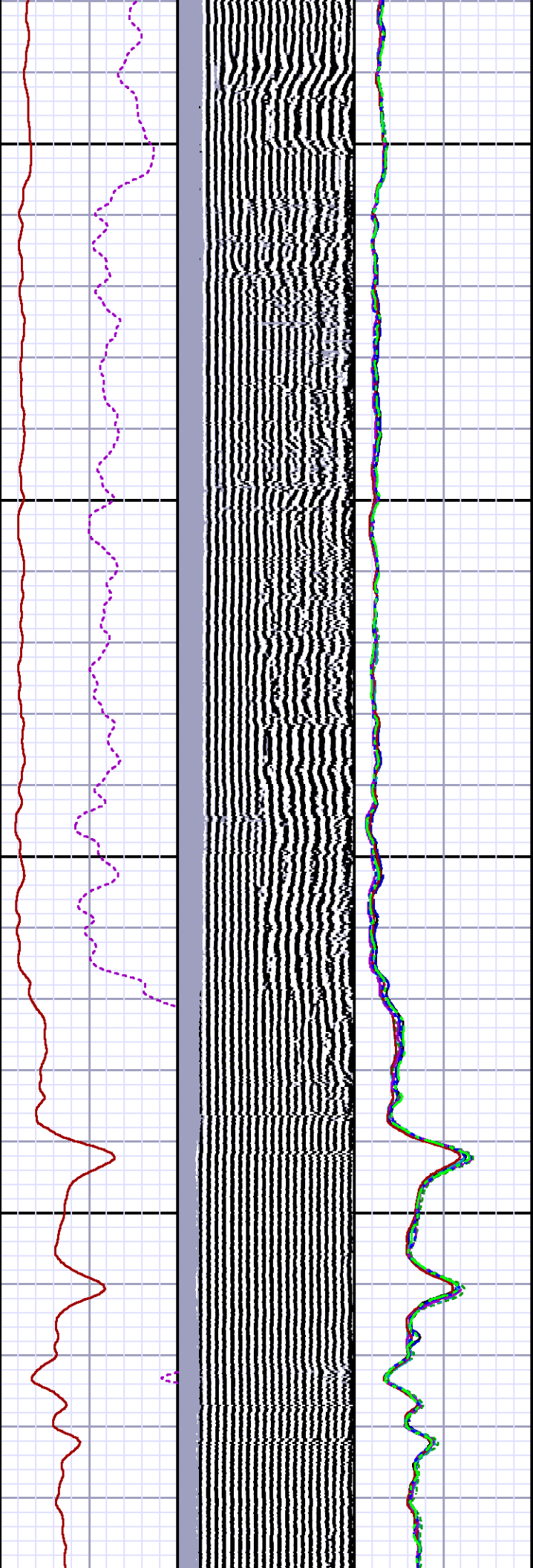








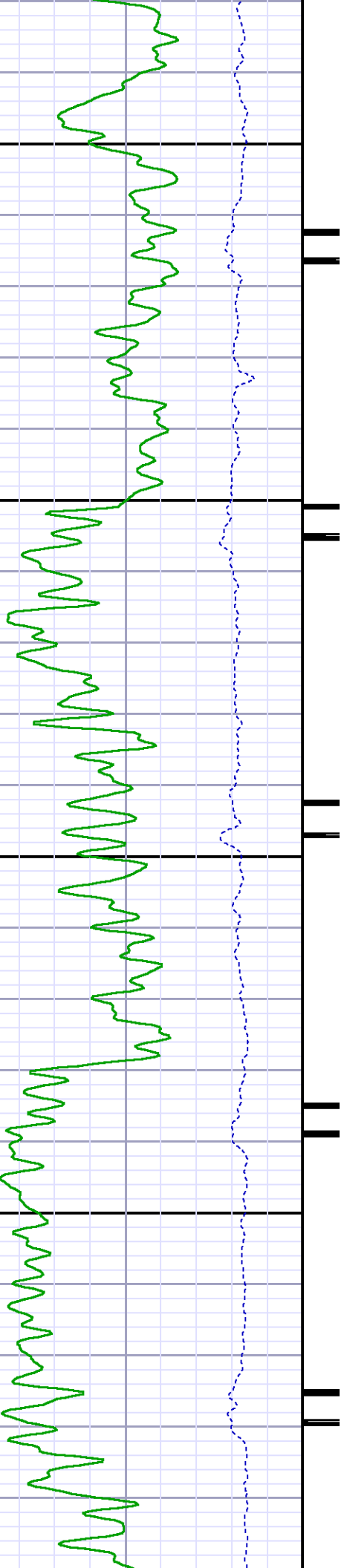


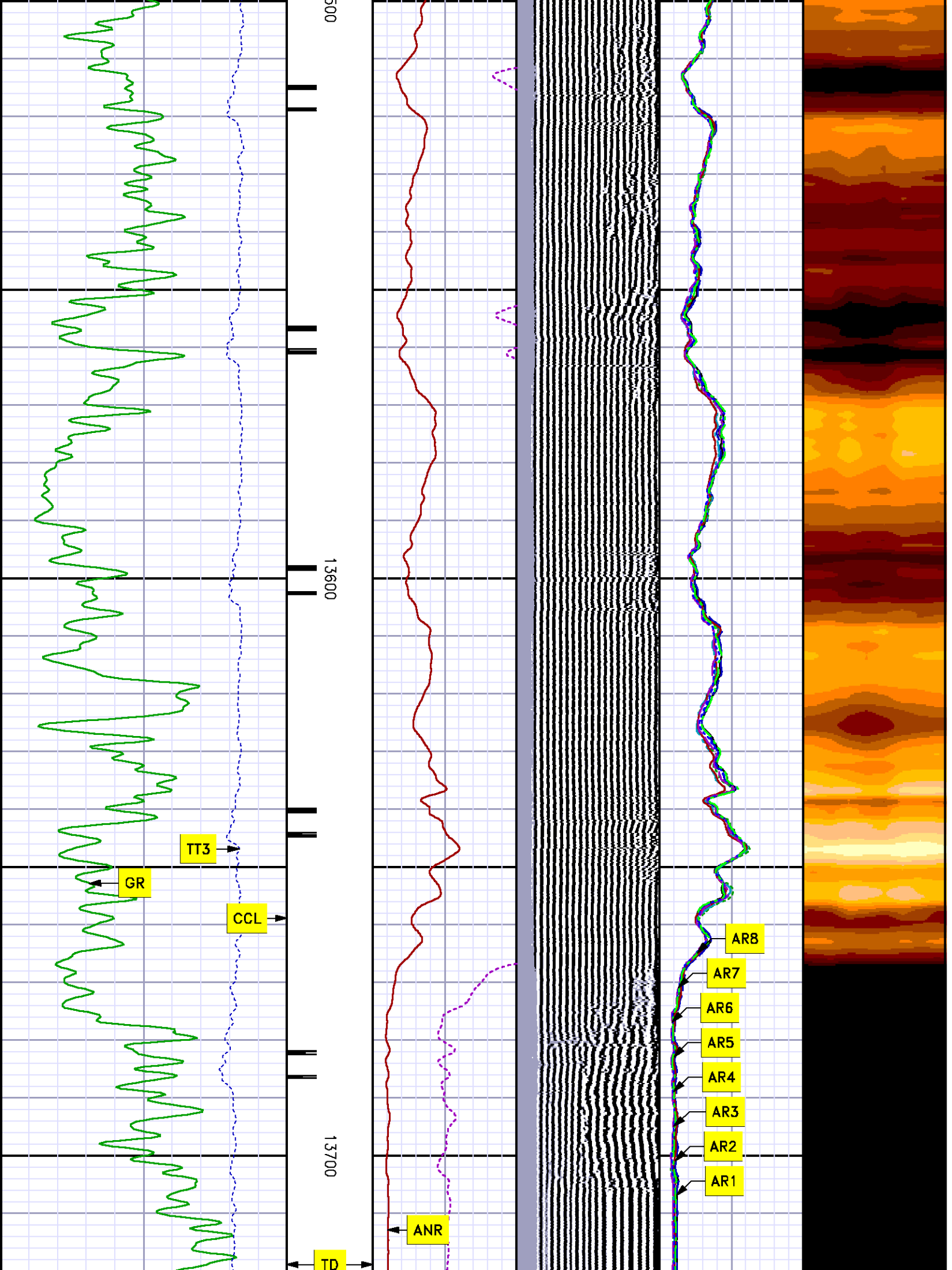


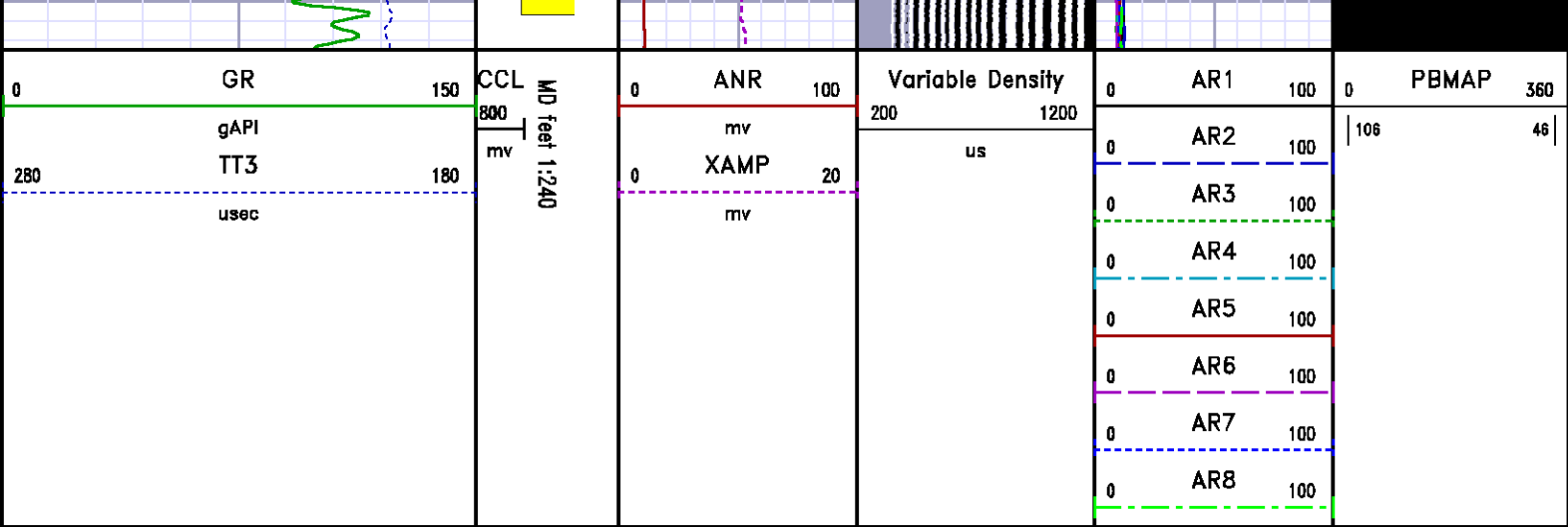
13300

13400

13500







REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	302.407	usec	9593.848	9995.000
RAL	Amp Gate Start Near	192.925	usec	9593.848	9995.000
RAL	Amp Gate Start Radial	194.019	usec	9593.848	9995.000
RAL	Amp Gate Width Far	25.000	usec	9593.848	9995.000
RAL	Amp Gate Width Near	25.000	usec	9593.848	9995.000
RAL	Amp Gate Width Radial	28.000	usec	9593.848	9995.000
RAL	casing od	4.500	inches	9593.848	9995.000
RAL	casing wt	15.100	lbm/ft	9593.848	9995.000
RAL	FB Start Far	289.263	usec	9593.848	9995.000
RAL	FB Start Near	172.754	usec	9593.848	9995.000
RAL	FB Start Radial	172.754	usec	9593.848	9995.000
RAL	FB Thresh Far	4.000	mv	9593.848	9995.000
RAL	FB Thresh Near	4.000	mv	9593.848	9995.000
RAL	FB Thresh Radial	4.000	mv	9593.848	9995.000
RAL	Fluid Travel Time	200.000	usec/ft	9593.848	9994.902

DEPTH OFFSETS

(for Acquired Curves)

(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 : EXXONMOBIL PRODUCTION COMPANY

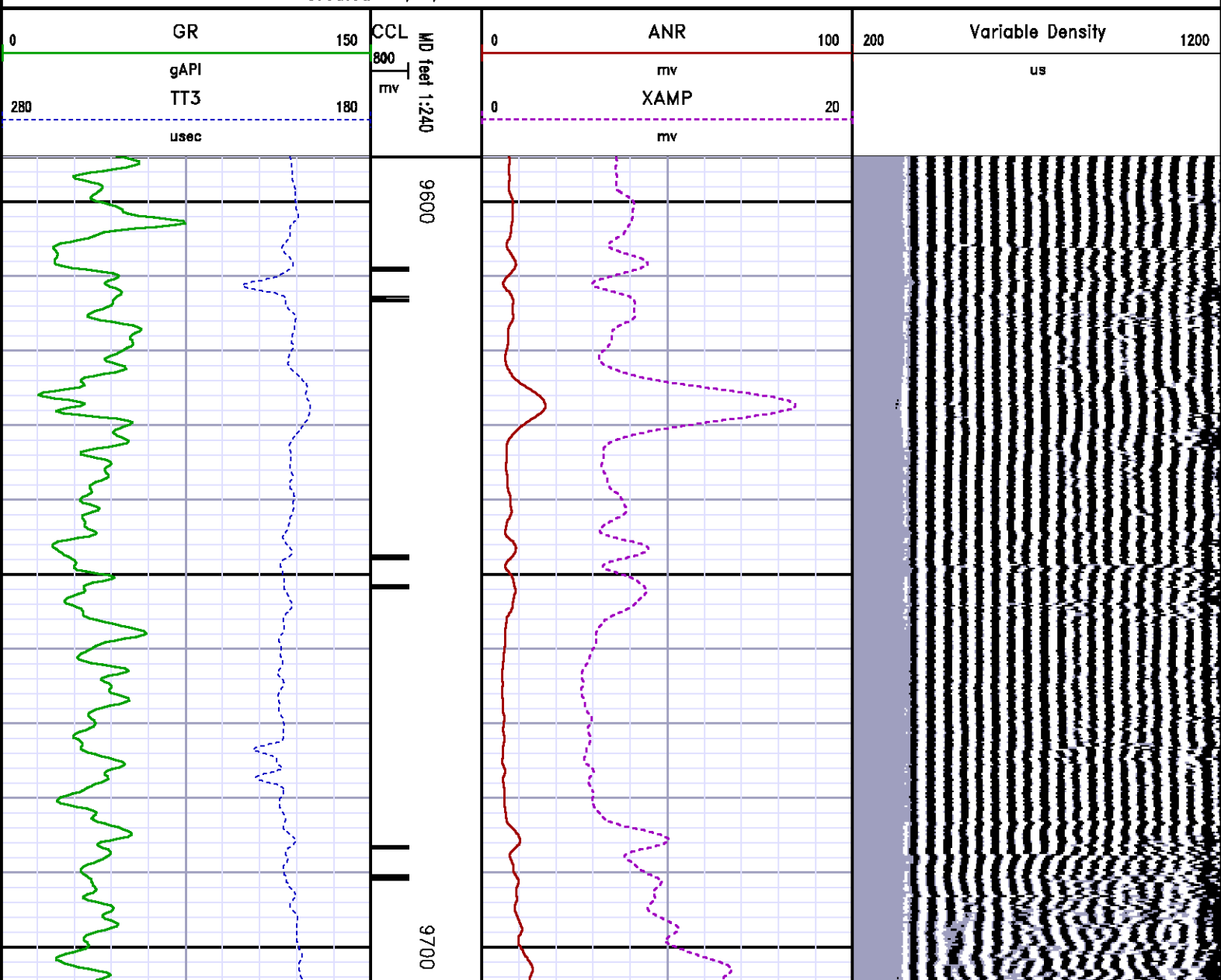
Well : PCU 296-6 A8

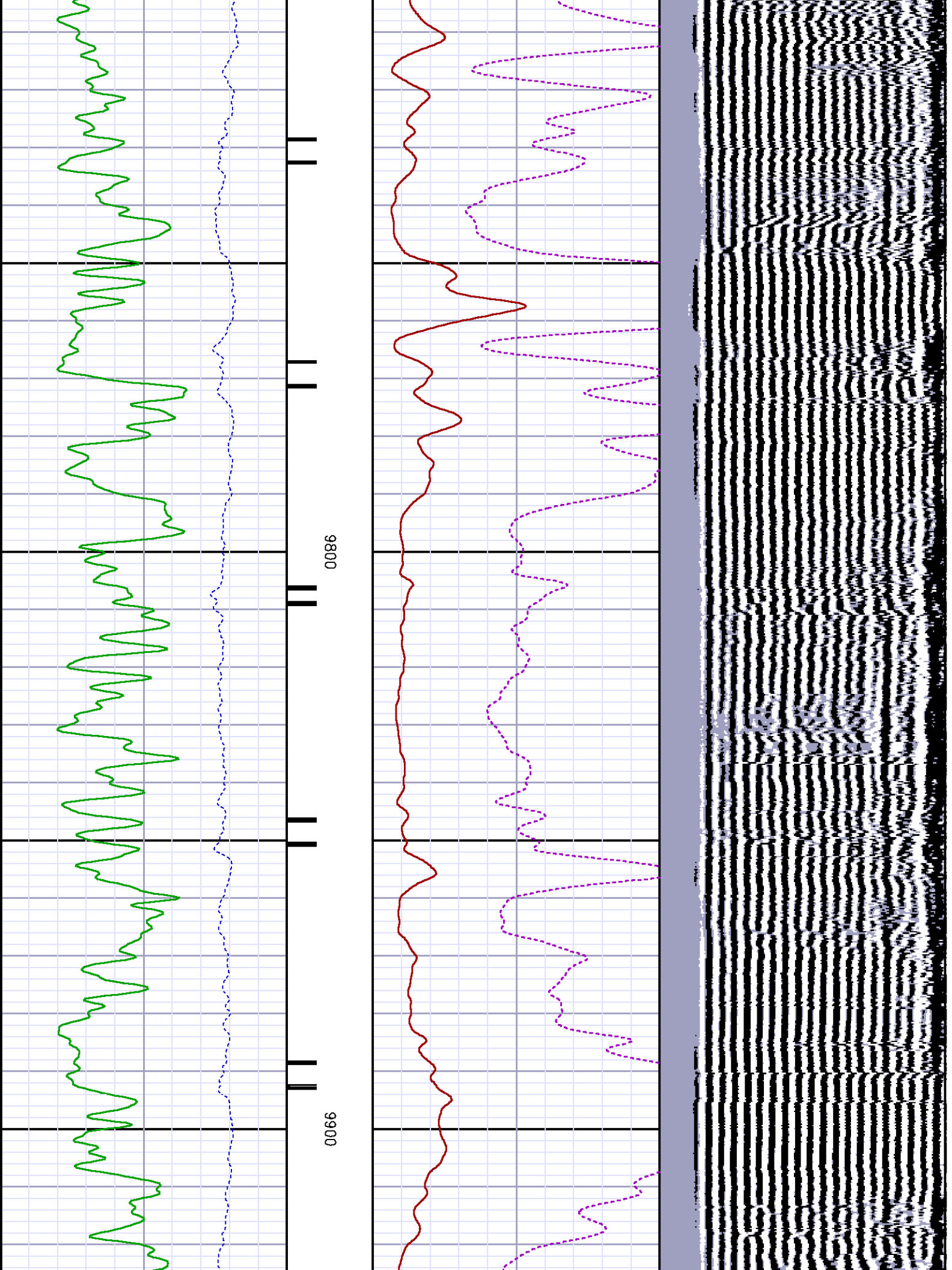
File Name : d:\welldata\rada8\repeat.xtf

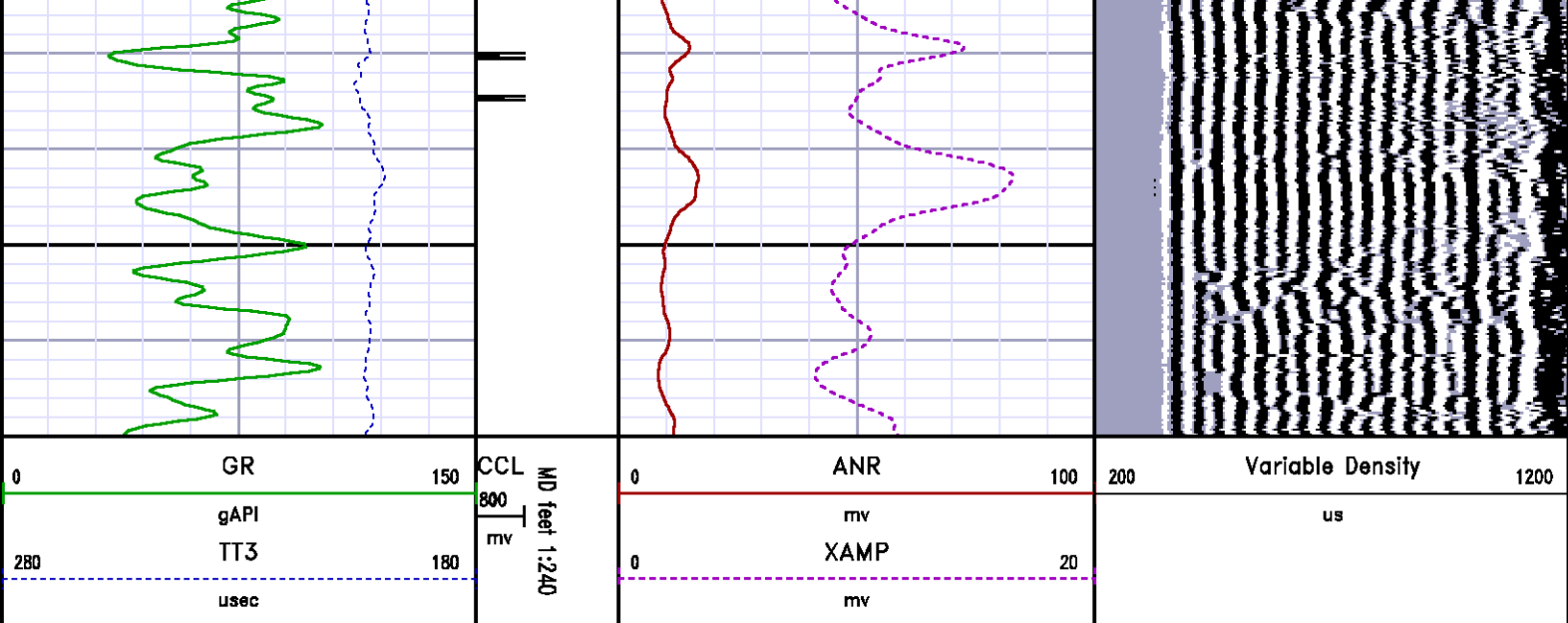
Mode : PlotMgr 5.4.504

Interval : 9594.00 - 9970.00 feet UP

Created : 1/19/2011 11:41:00 AM







CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\504JA.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 18 15:13:58 2011 TOOL SERIES: 2459XA ASSET: 504 SEQ: JA

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	35.96	169.69	1.383	49.74	234.74	185.00

Verification File: C:\case\calver\GR\504JA.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jan 18 15:15:31 2011 TOOL SERIES: 2459XA ASSET: 504 SEQ: JA

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA-612	35.97	166.00	1.383	49.76	229.64	179.87

RALSHP

Shop Calibration: C:\case\calver\RALSHP\957J18 shp.cal

DATE/TIME PERFORMED: Tue Jan 18 15:03:28 2011

TOOL SERIES:

1426XA

ASSET:

957

SEQ: J18

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	219	216	30	121	66	0.002	100.00	0.50
3 Ft. Receiver	219	216	30	110	77	0.038	100.00	0.50
5 Ft. Receiver	327	322	30	223	72	-0.110	150.00	0.53
Radial #1	219	216	30	98	97	-0.618	100.00	0.49
Radial #2	220	216	30	98	97	-0.414	100.00	0.51
Radial #3	219	216	30	98	97	-0.160	100.00	0.51
Radial #4	220	216	30	98	97	-0.275	100.00	0.51
Radial #5	219	216	30	98	97	-0.224	100.00	0.50
Radial #6	217	216	30	98	97	-0.609	100.00	0.49
Radial #7	216	216	30	98	97	-0.877	100.00	0.49
Radial #8	218	216	30	98	97	-0.775	100.00	0.50

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\957J18 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jan 18 15:05:05 2011

TOOL SERIES:

1426XA

ASSET:

957

SEQ: J18

Tool Delay
[usec]

-58.00

Casing OD

in

4.50

Casing Wt

lbm/ft

15.50

Casing ID

in

3.81

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	121	66	0.001	0.000	1.01	100.000
3 Ft. Receiver	197	30	-1.564			
5 Ft. Receiver	314	30	-0.104			
Radial #1	197	30	-0.931			
Radial #2	197	30	-1.042			
Radial #3	197	30	0.049			
Radial #4	197	30	-0.315			
Radial #5	197	30	-0.071			
Radial #6	197	30	0.165			
Radial #7	197	30	-0.359			
Radial #8	197	30	-0.123			

TOOL DIAGRAM

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

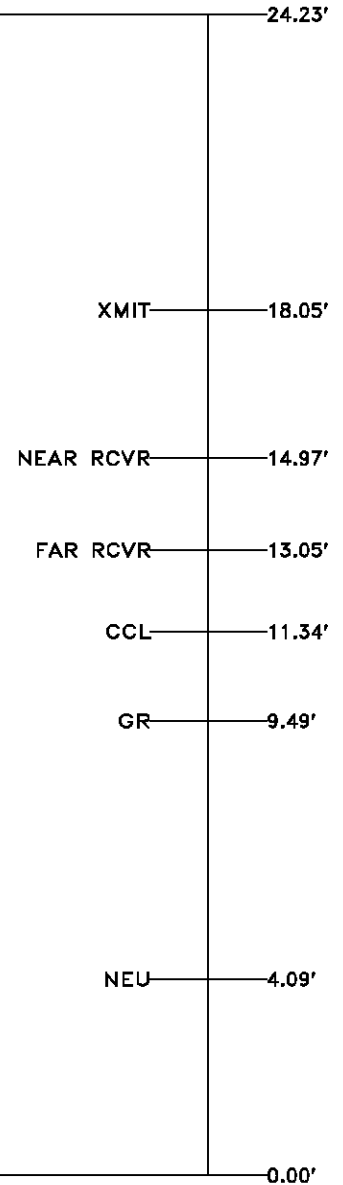
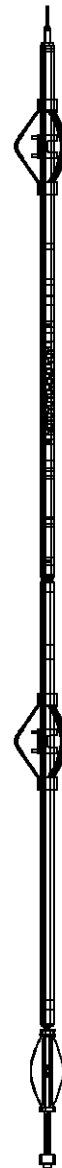
Series 1426XA
 Mnemonic PROB
 Diameter 2.75"
 Length 11.17'
 Measure Point 0.75' FAR RCVR
 Measure Point 2.67' NEAR RCVR
 Measure Point 5.75' XMIT
 Temp Rating 350.00 °F
 Press Rating 18000.00 PSI

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"



Company
 Well
 Field
 County

EXXONMOBIL PRODUCTION COMPANY
 PCU 296-6 A8 ST1
 PICEANCE CREEK
 RIO BLANCO State COLORADO

File No:
 API No:
 0510311479 0100

Location

SHL: 485' FSL & 1908' FWL

Elevations

KB 7393.2 ft
 DF 7392.2 ft
 GL 7393.2 ft

SEC 6 TWP 2S RGE 96W

CASE

Baker Atlas