



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No:	Company		EXXONMOBIL PRODUCTION COMPANY	
1823	Well		POU 297-1106	
API No:	Field		PICEANCE CREEK	
06103114720000	County		RIO BLANCO	
	State		COLORADO	
	Location		Other Services	
	SML: 877' PUL & 886' PUL		RTM	
	SEC 11	TWP 25	RGE 97W	
Permanent Datum	GL		Elevation	6963 ft
Log Measured From	KB		30.2 ft	Above P. D.
Drill Measured From	KELLY BUSHING		KB	6963.2 ft
			DF	6962.2 ft
			GL	6963 ft

Date	17 JULY 2010	
Run	ONE	
Service Order	567892	
Depth Driller	12583 ft	
Depth Logger	12544 ft	
Bottom Logged Interval	12543 ft	
Top Logged Interval	3205 ft	
Time Started	10:00	
Time Finished	15:30	
Operator Rig Time	5.5 hrs	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	PULL	
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.	4271	G.J. COLORADO
Recorded By	J. OSTLER	
Witnessed By	MR. JOHN WOOD	

- 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
8.125 in	SURFACE	12583 ft

Casing Record				
Size	Weight	Grade	From	To
4.5 in	15.1 lbm/ft	P-110	SURFACE	12583 ft

Remarks
THIS IS THE FIRST LOG OF THE WELL
WELL WAS LOGGED WITH 0 PSI AT THE WELL HEAD
SHORT JOINTS AT:
6653' TO 6656'
7656' - 7659'
8659' TO 8662'
9648' TO 9656'
10649' TO 10656'
11647' TO 11654'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	452	CENTRALIZED
1	1	GR/CCL/NEU	2459XA	457	CENTRALIZED

MAIN SECTION  
PRIMARY PRESENTATION  
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	3218.600	12570.000
RAL	Amp Gate Start Near	197.754	usec	3218.600	12570.000
RAL	Amp Gate Start Radial	197.754	usec	3218.600	12570.000
RAL	Amp Gate Width Far	25.000	usec	3218.600	12570.000
RAL	Amp Gate Width Near	25.000	usec	3218.600	12570.000
RAL	Amp Gate Width Radial	25.000	usec	3218.600	12570.000
RAL	casing od	4.500	inches	3218.600	12570.000
RAL	casing wt	15.100	lbm/ft	3218.600	12570.000
RAL	FB Start Far	289.263	usec	3218.600	12570.000
RAL	FB Start Near	172.754	usec	3218.600	12570.000
RAL	FB Start Radial	172.754	usec	3218.600	12570.000
RAL	FB Thresh Far	10.000	mv	3218.600	12570.000
RAL	FB Thresh Near	4.000	mv	3218.600	12570.000
RAL	FB Thresh Radial	4.000	mv	3218.600	12570.000
RAL	Fluid Travel Time	200.000	usec/ft	3218.600	12570.000

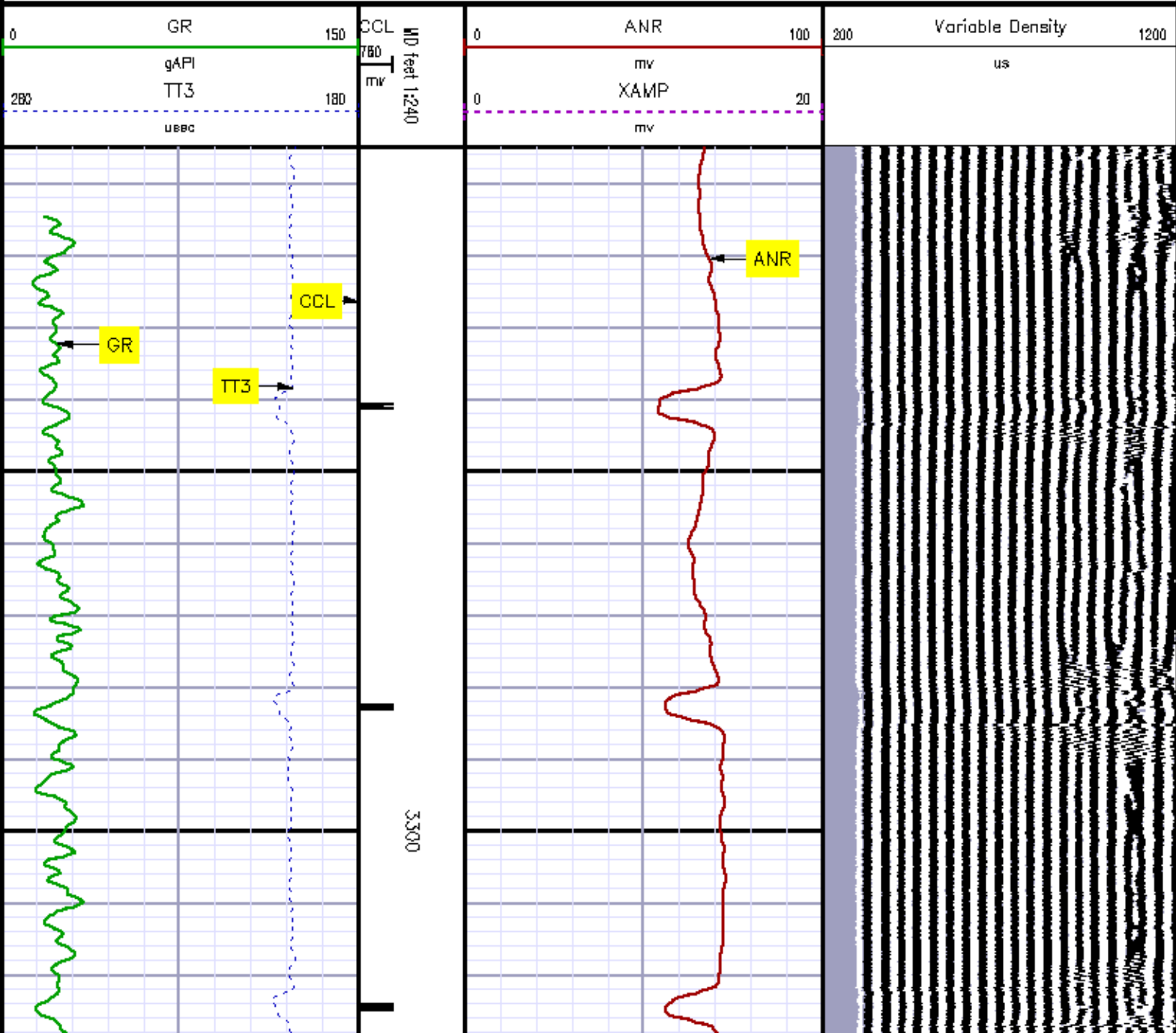
DEPTH OFFSETS  
(for Acquired Curves)

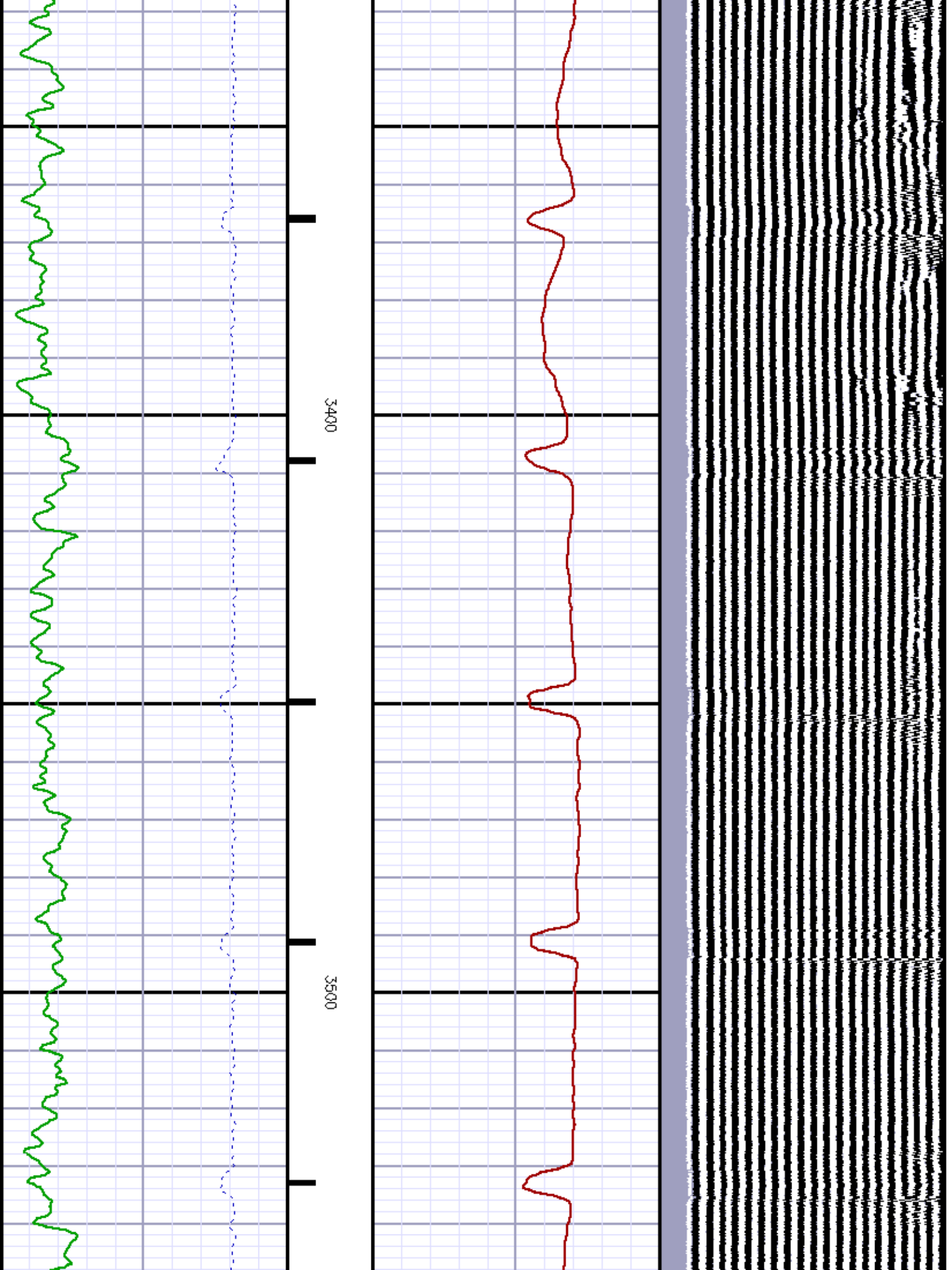
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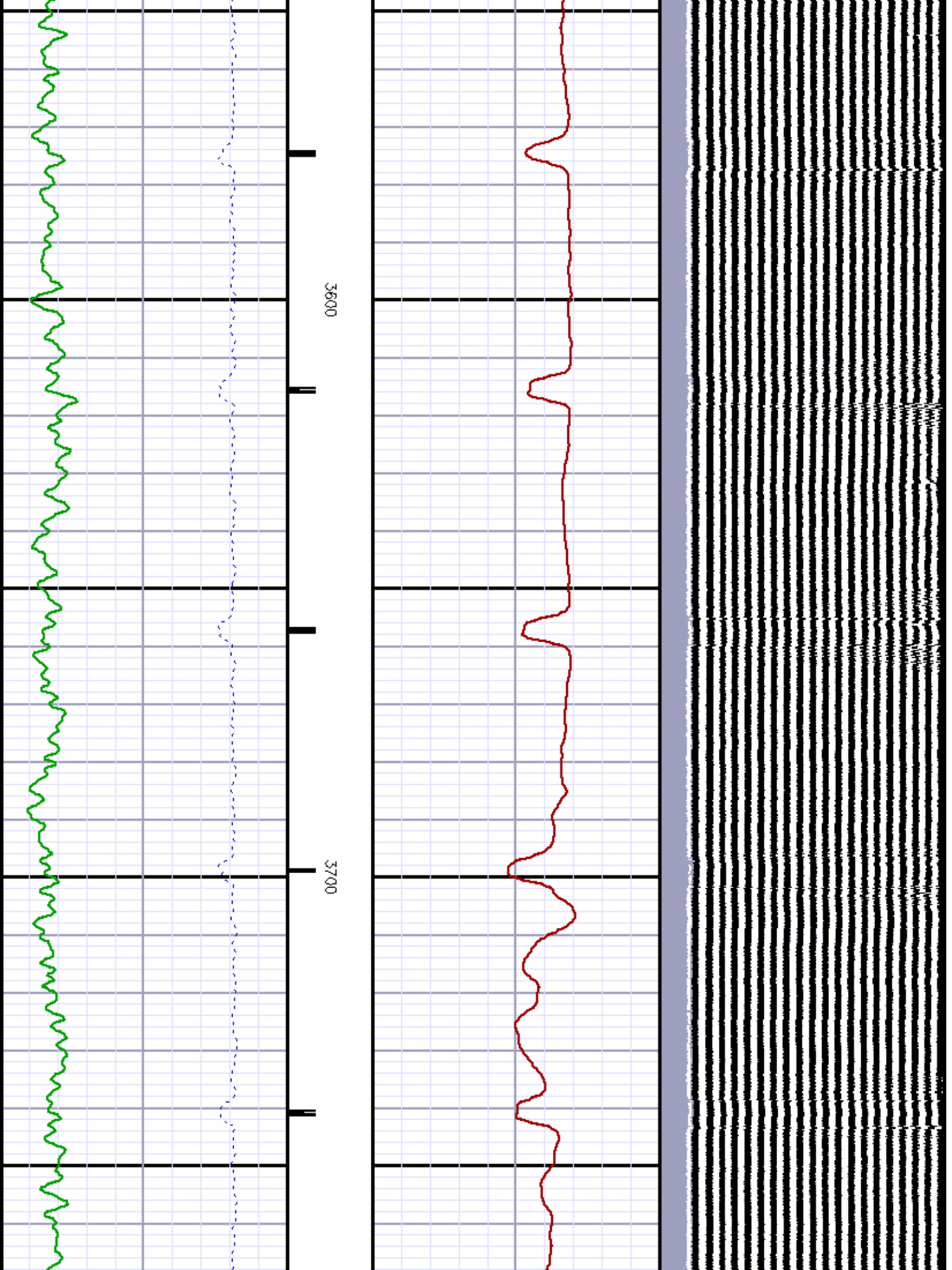
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 1426XA -14.360  
 1426XA -7.250  
 1426XA -5.390  
 1426XA 0.000

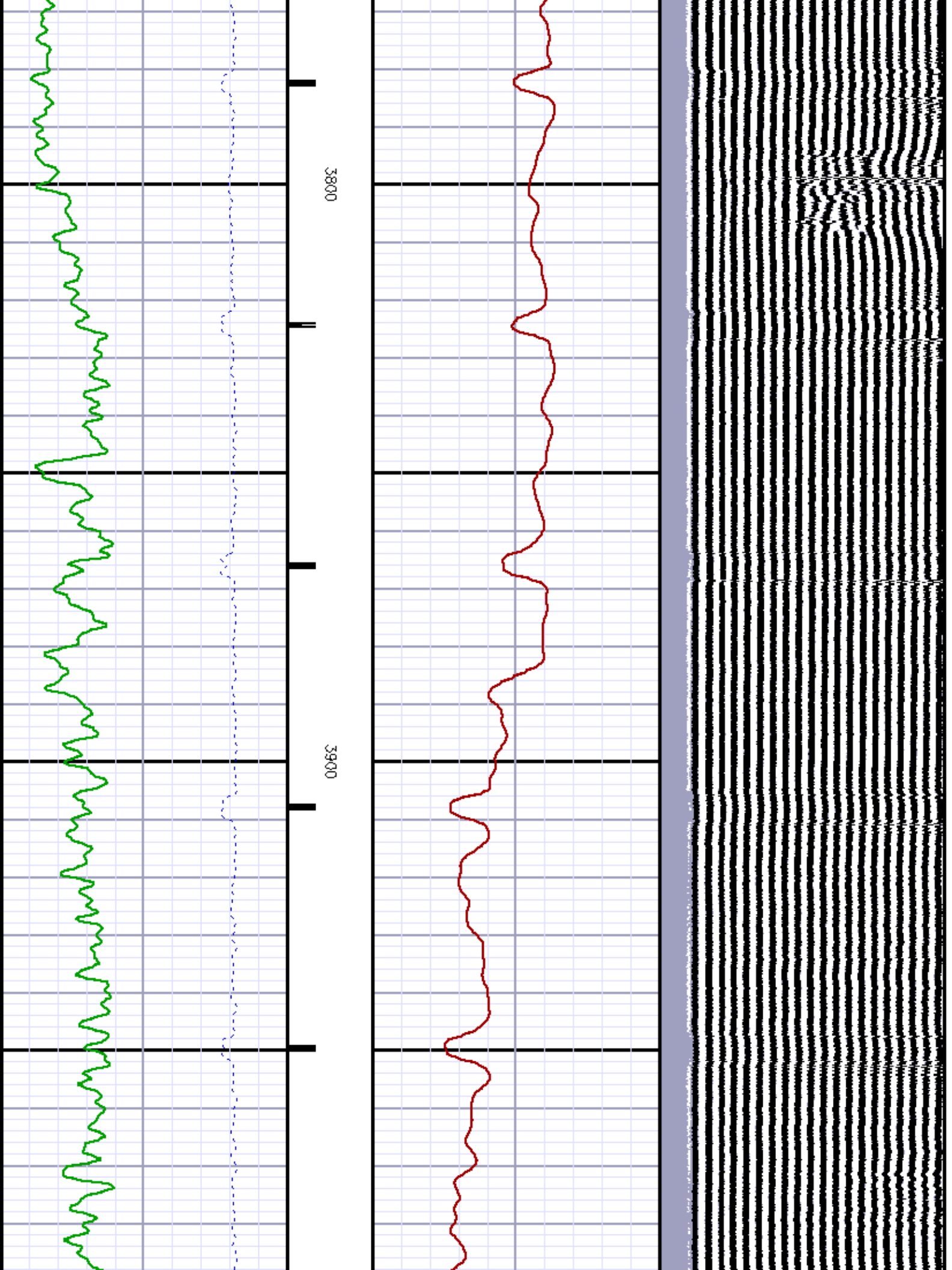
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AR5	AR6	AR7	AR8	CHV	FPR2
FPR3	FPR5	TT3	TTR1	TTR2	TTR3
TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

Created by : MIXED  
 Plotted by : PlotMgr, v5.4.504  
 Company : exxon mobil production company  
 Well : PCU 297-11-06  
 File Name : d:\welldata\radc6\main.xtf  
 Mode : PlotMgr 5.4.504  
 Interval : 3205.00 - 12550.00 feet UP  
 Created : 7/17/2010 11:04:13 AM

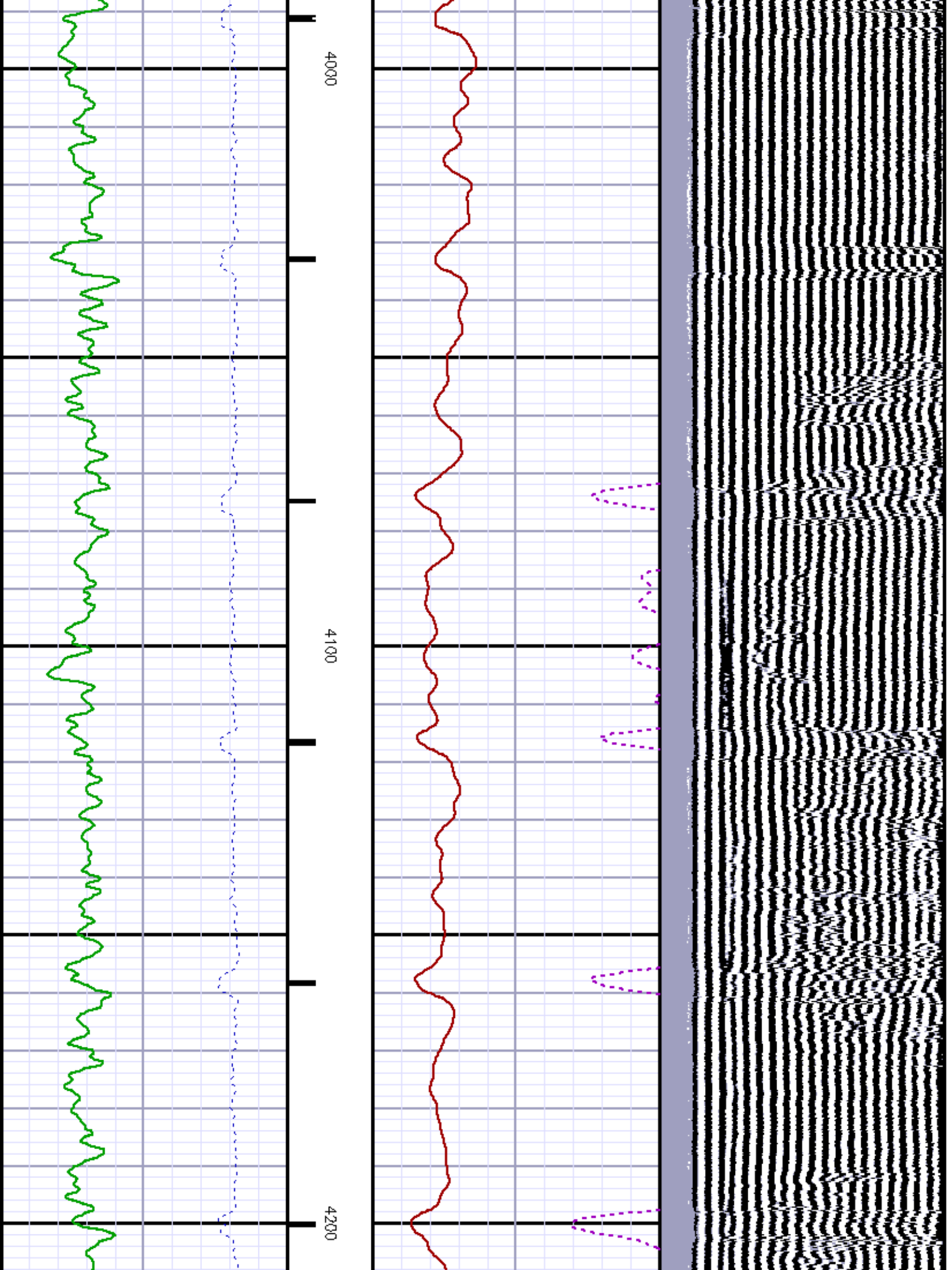


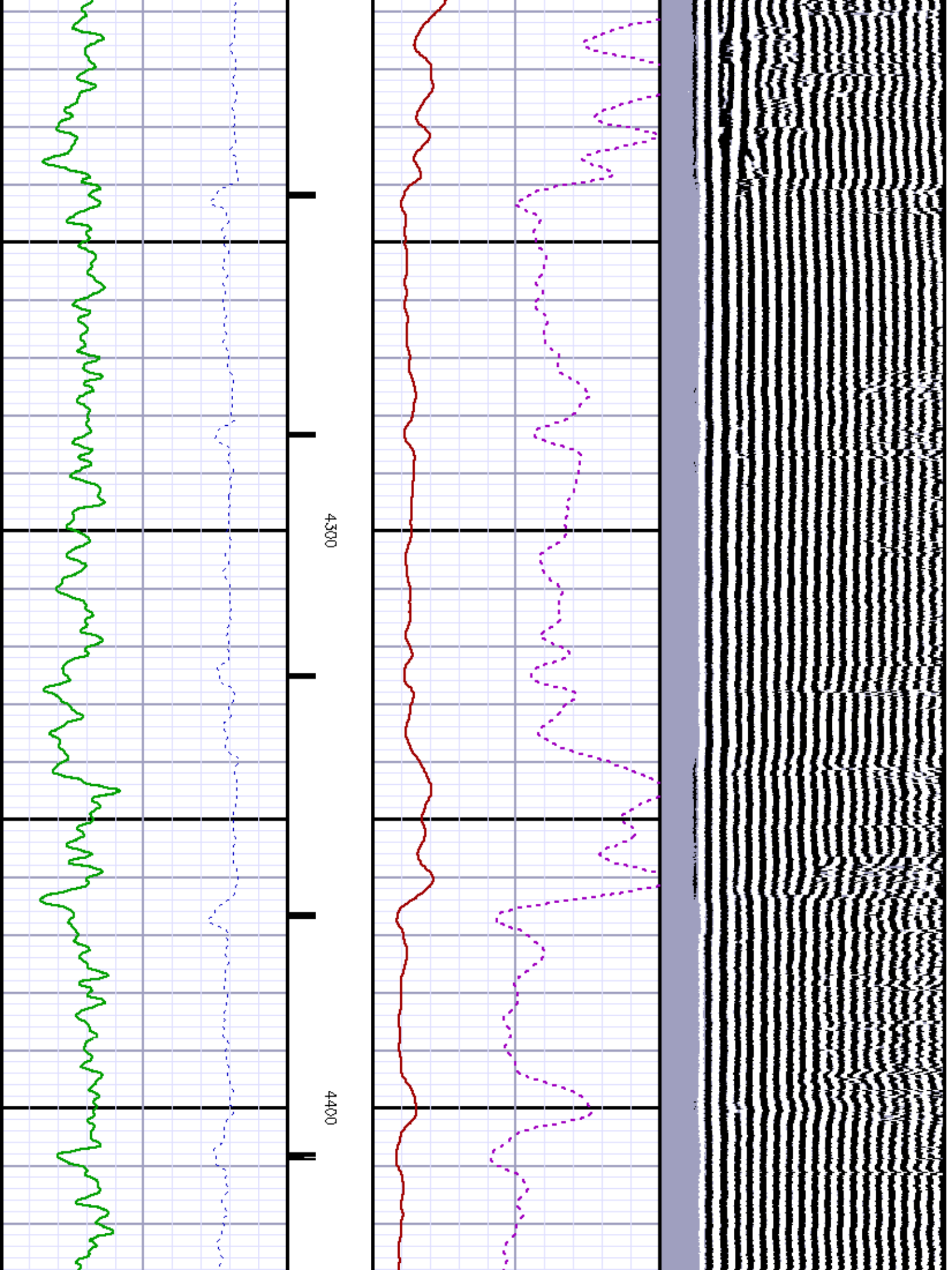




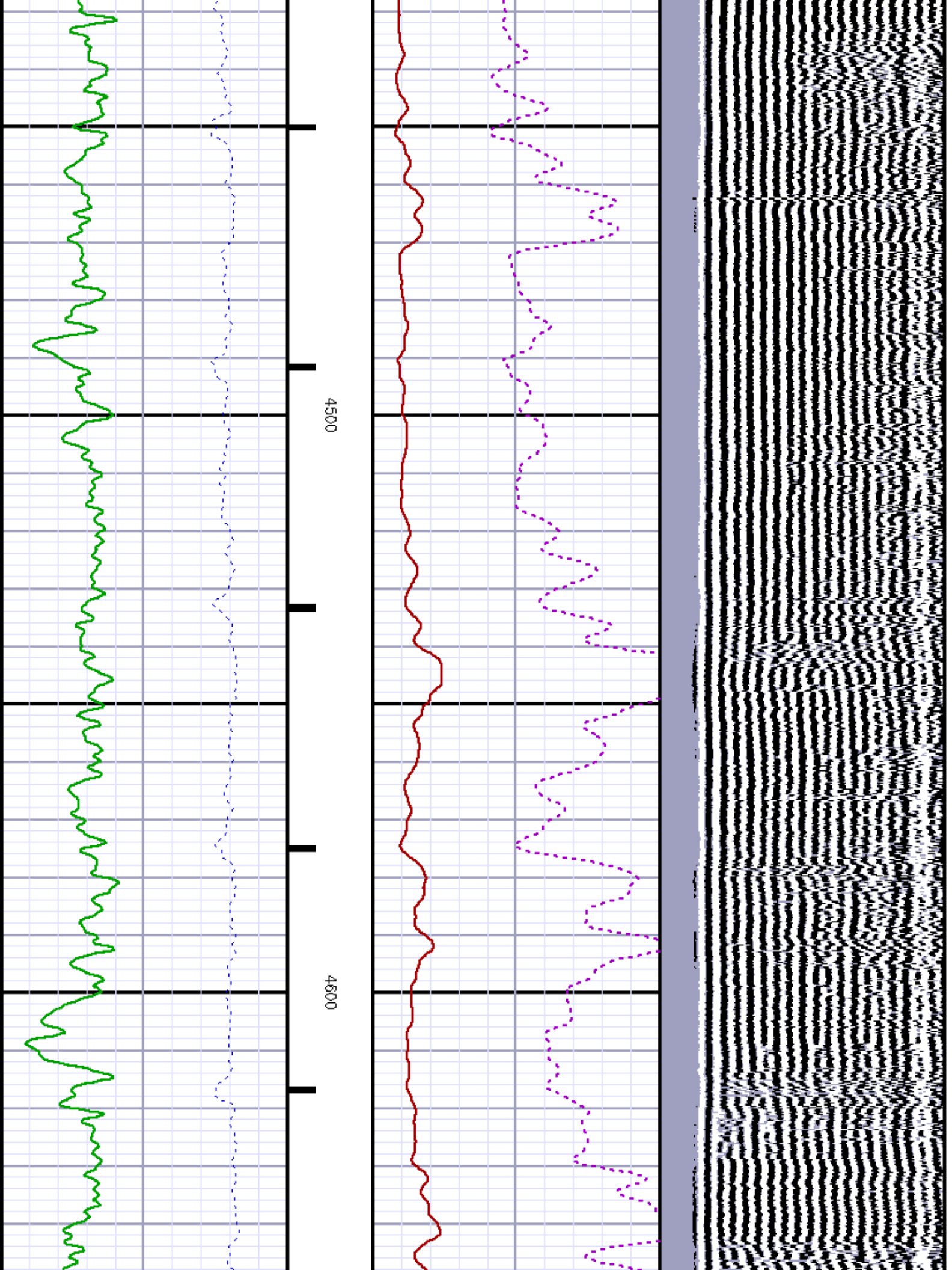


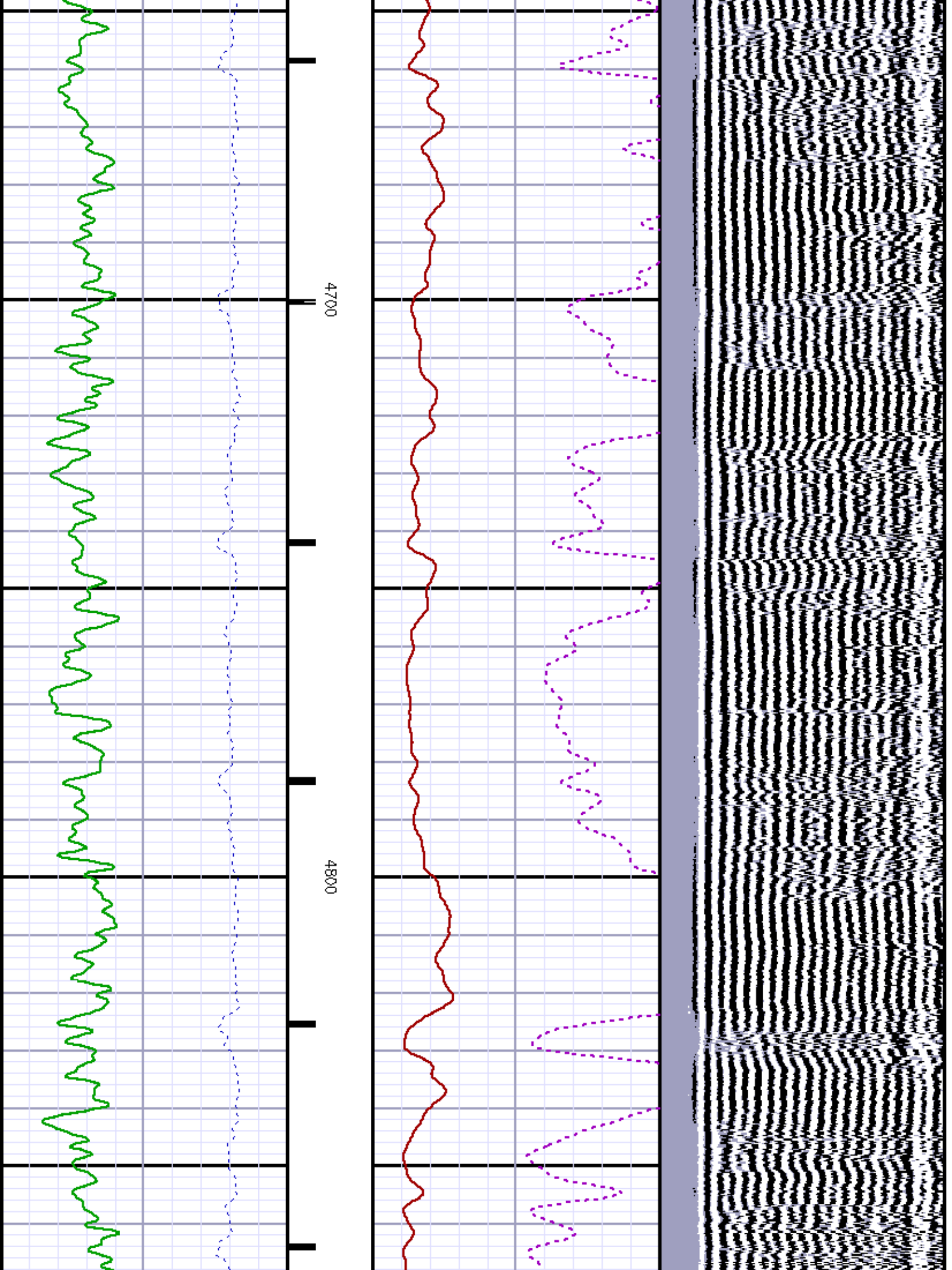


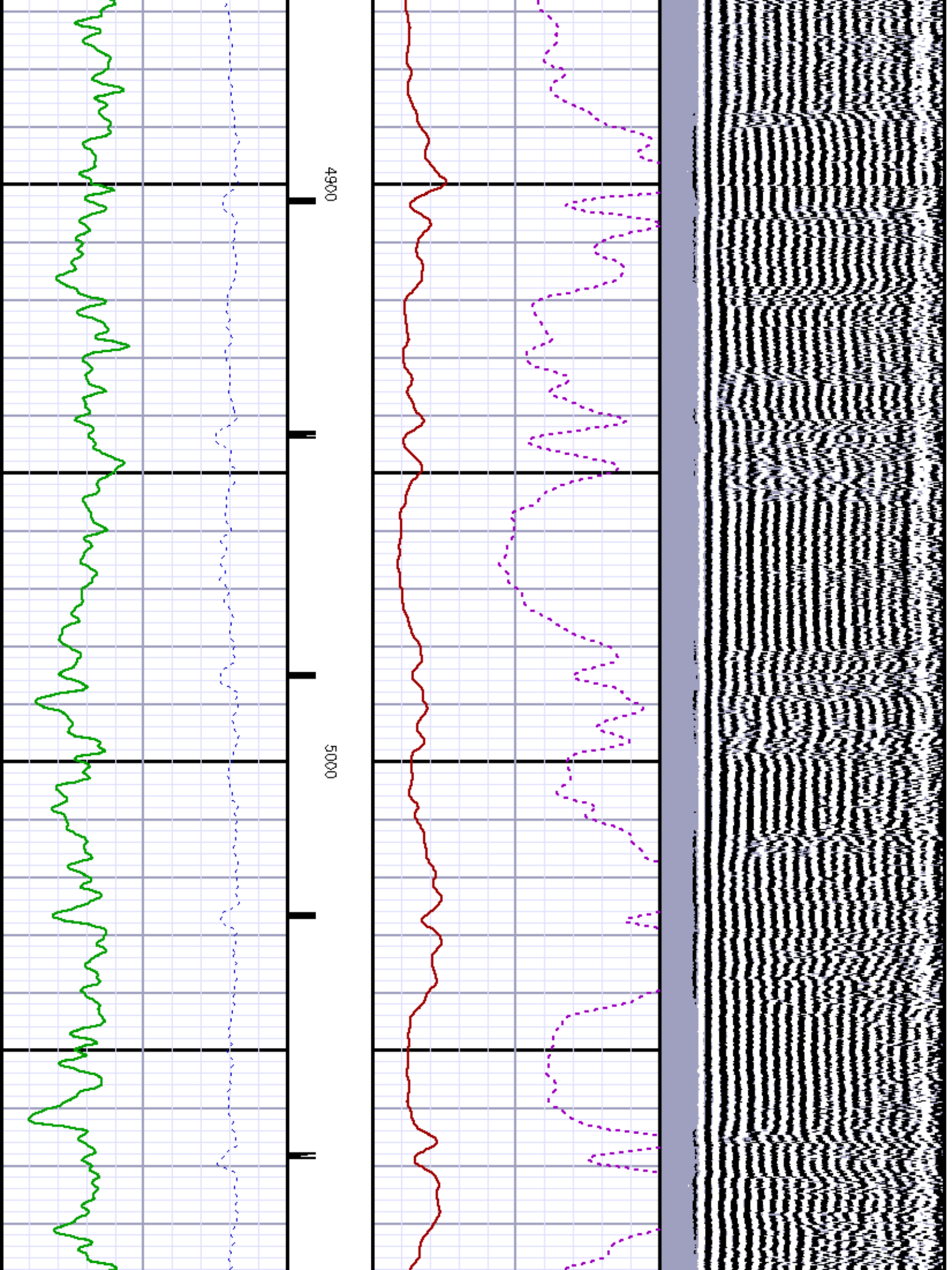




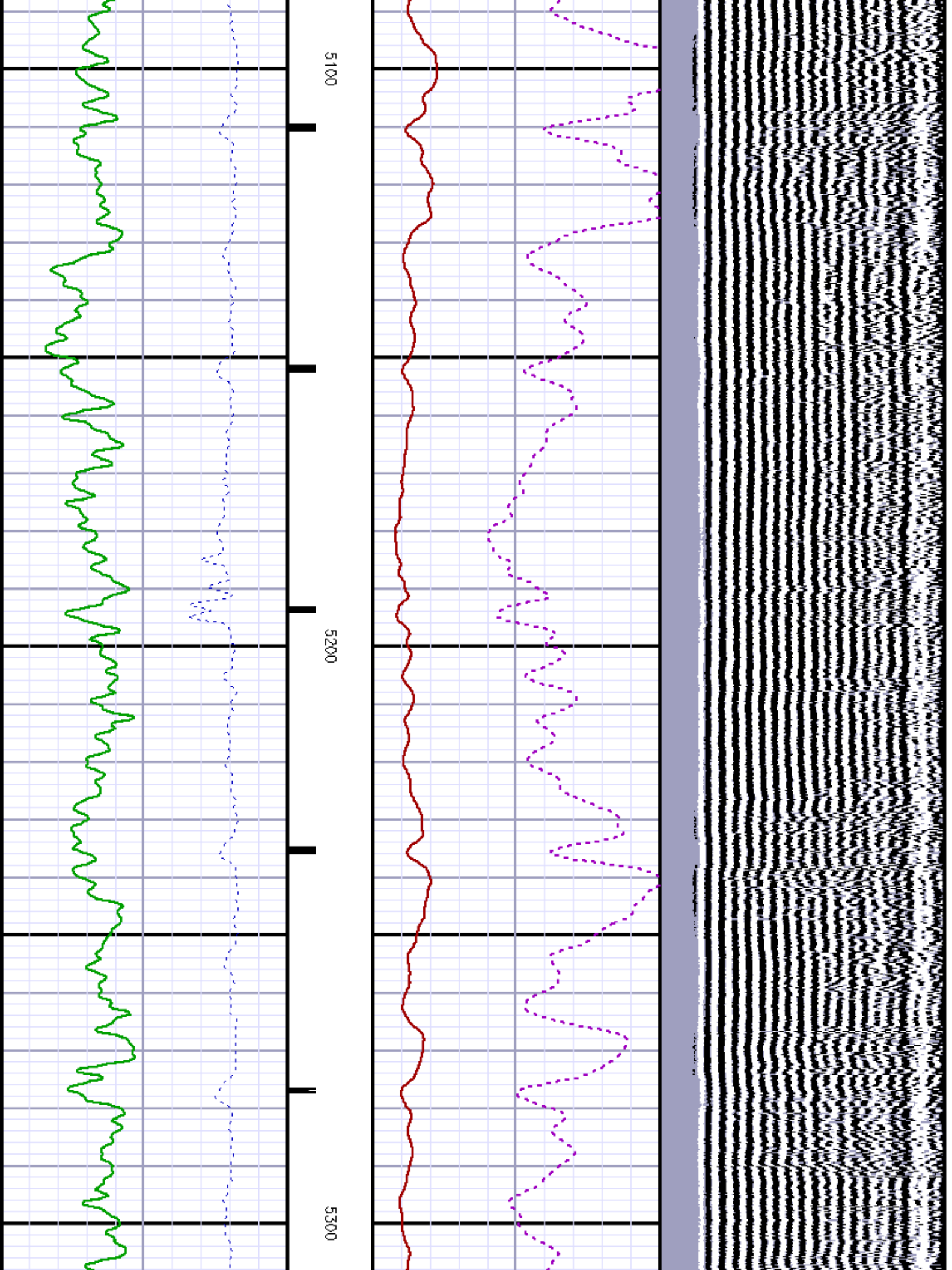


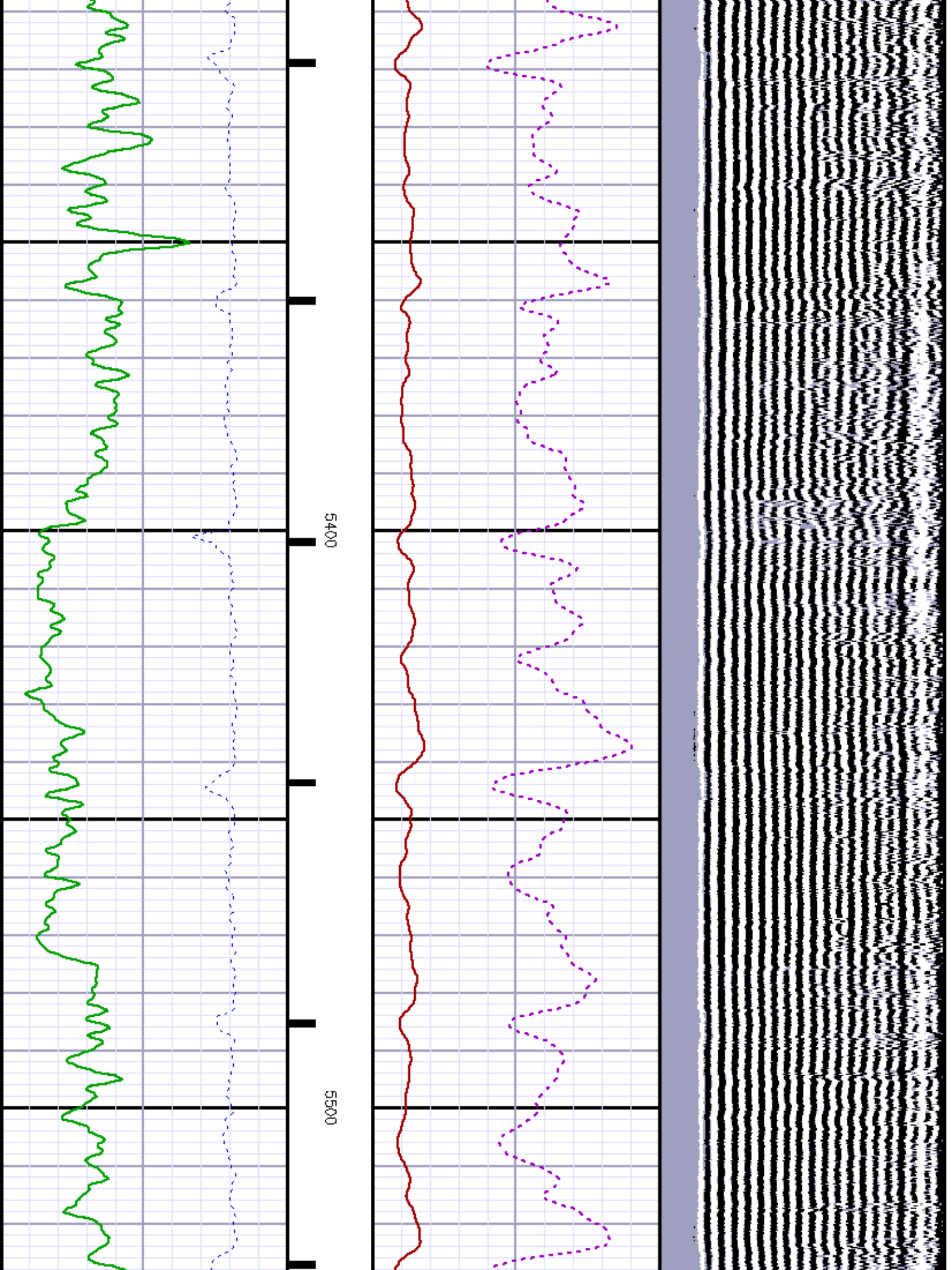




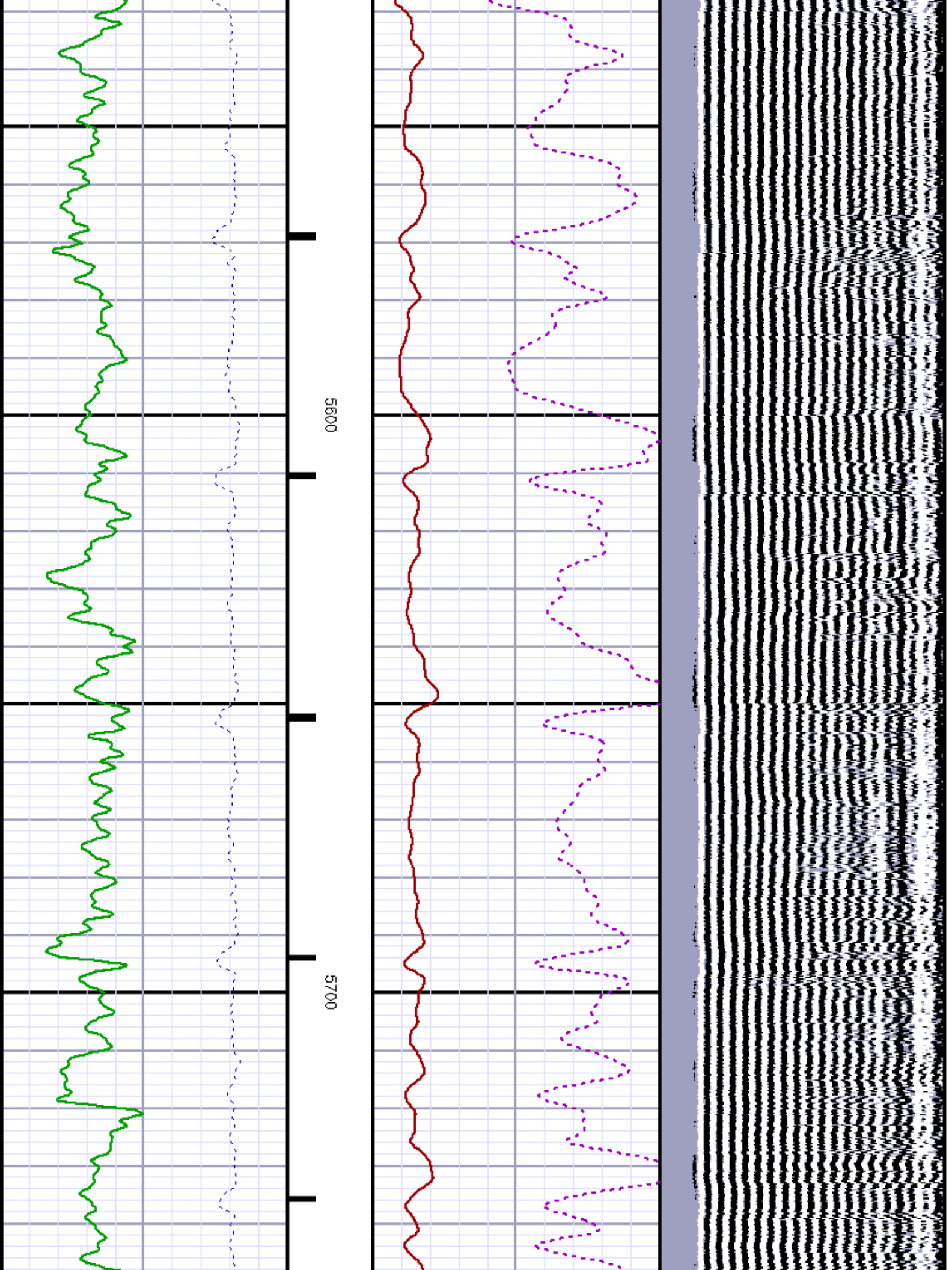


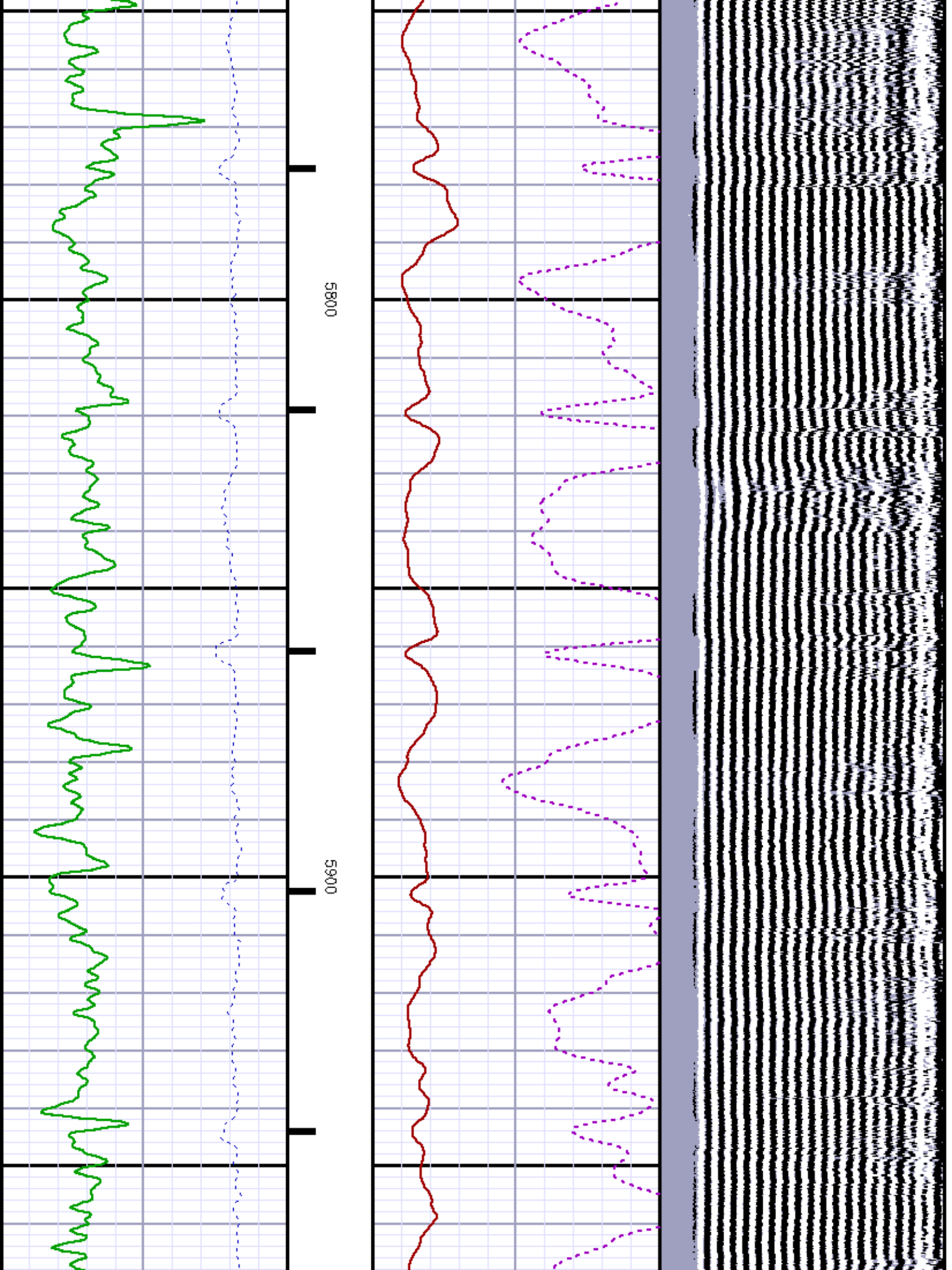


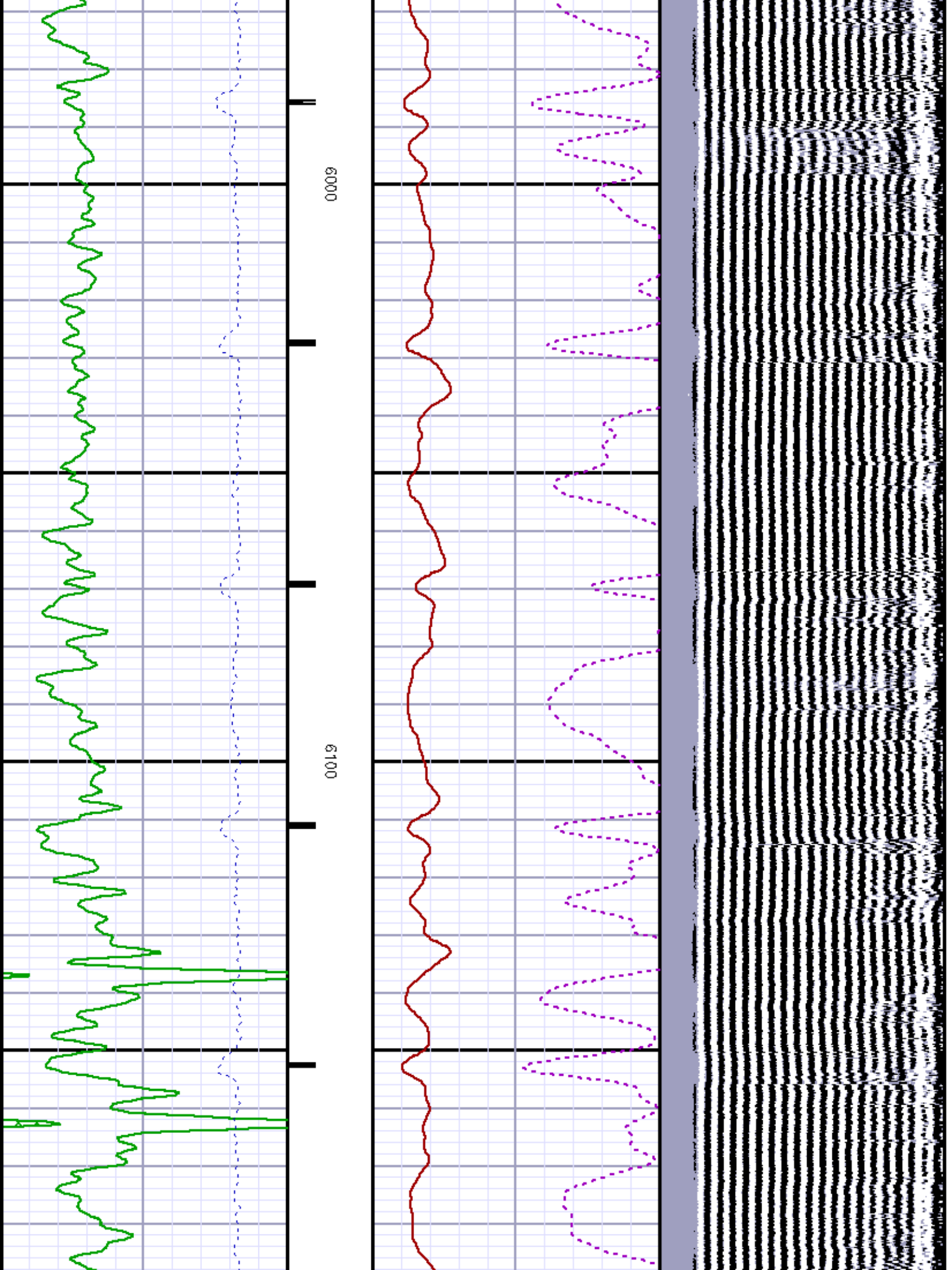




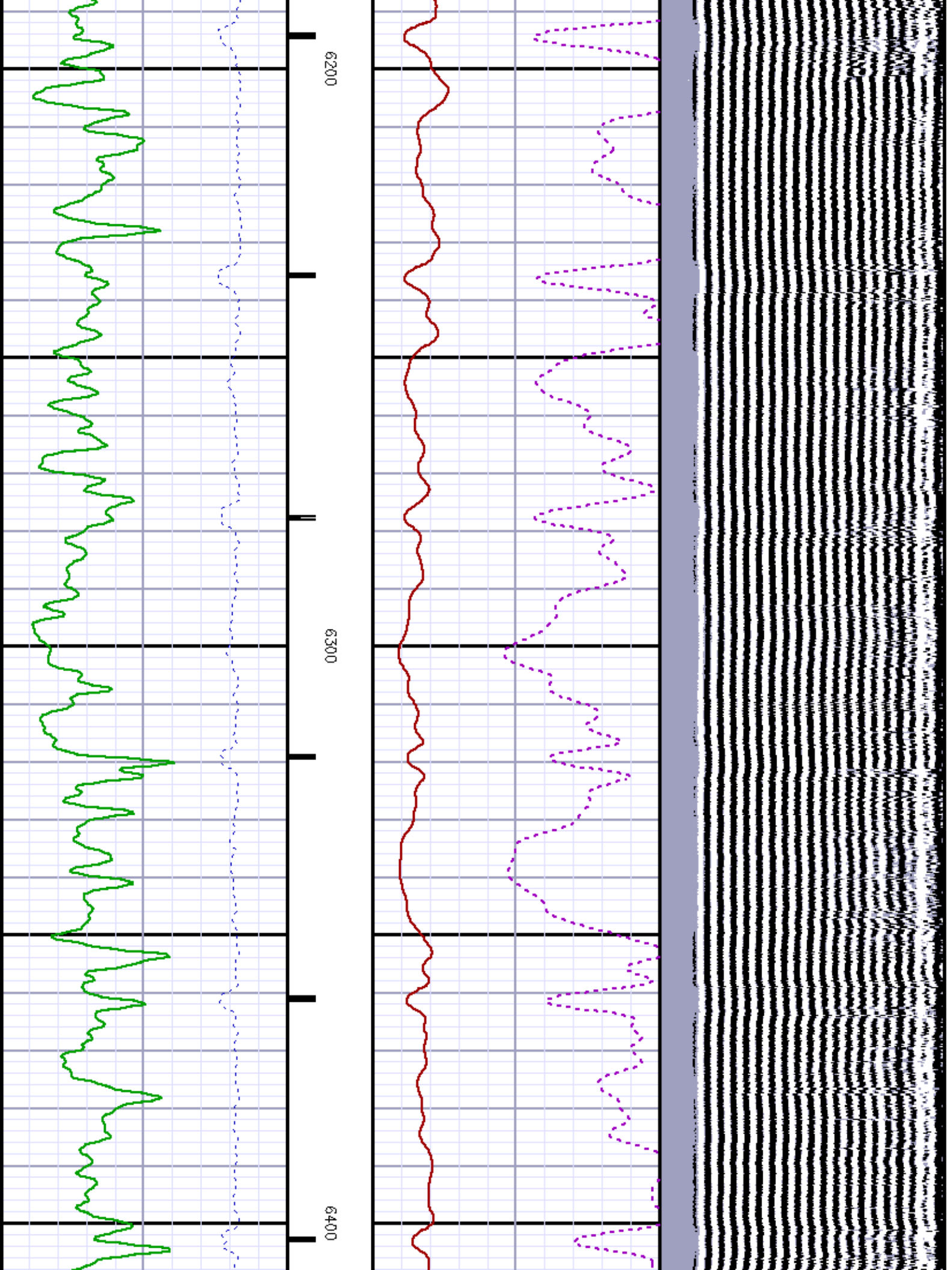


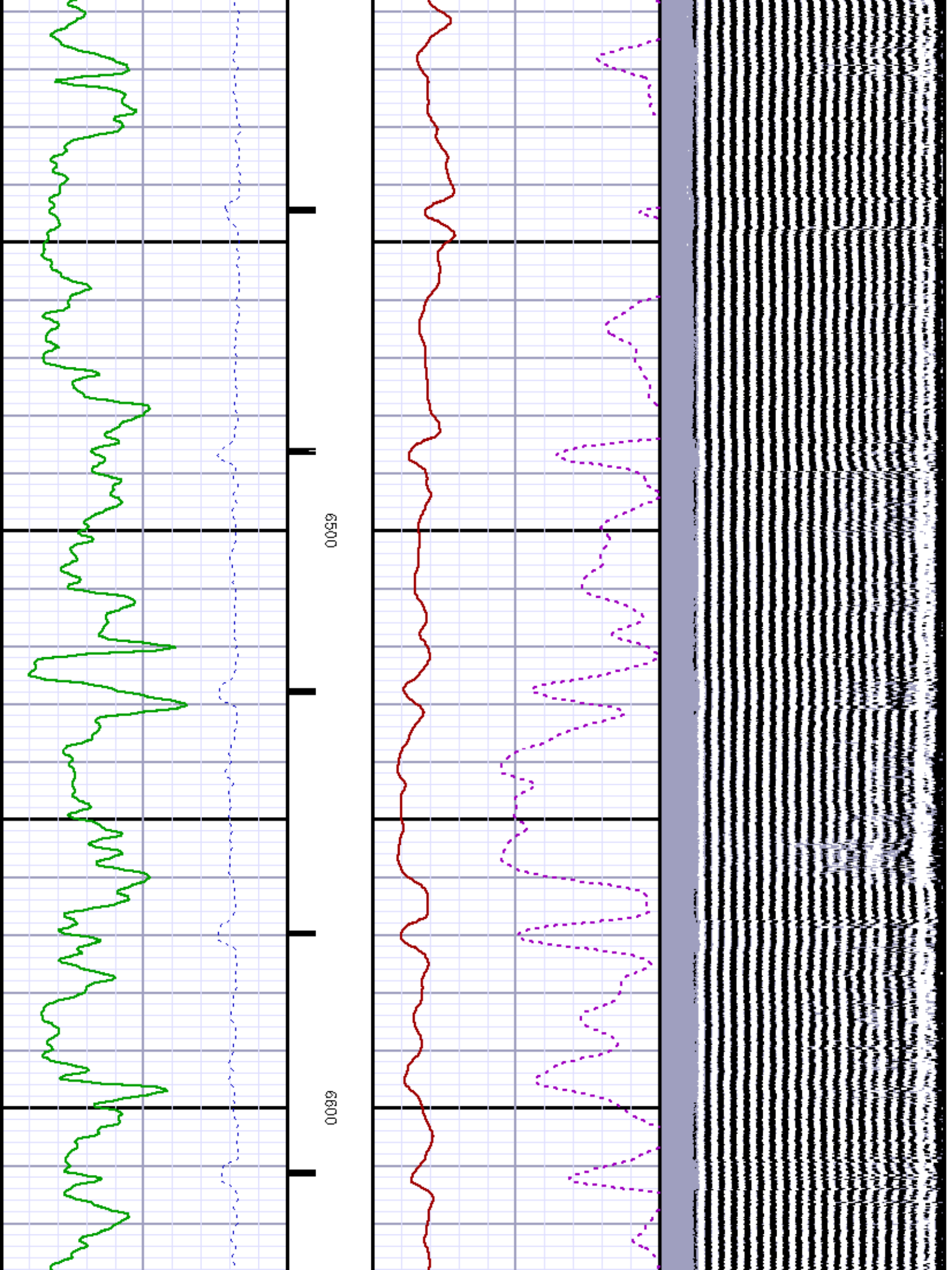




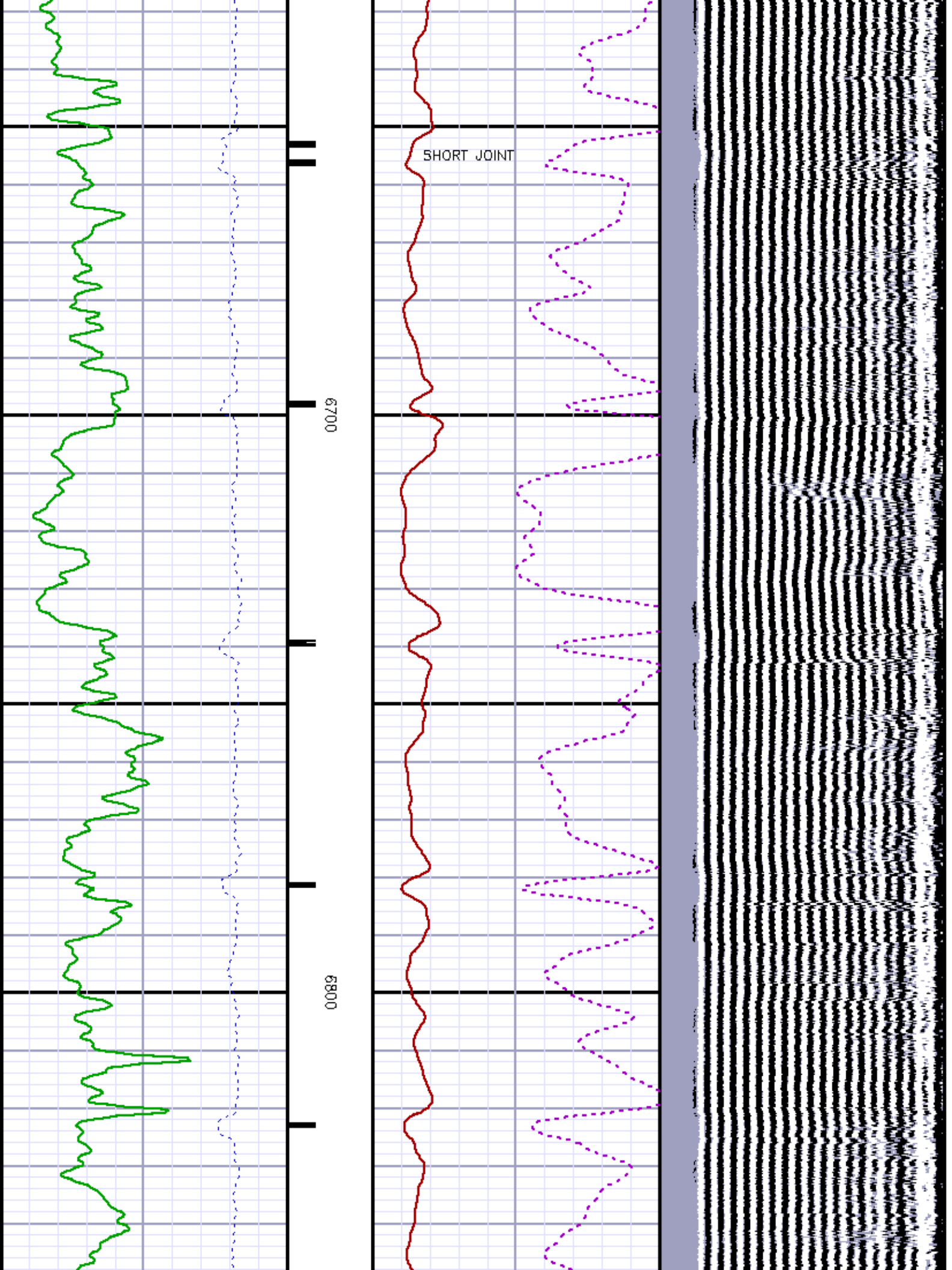


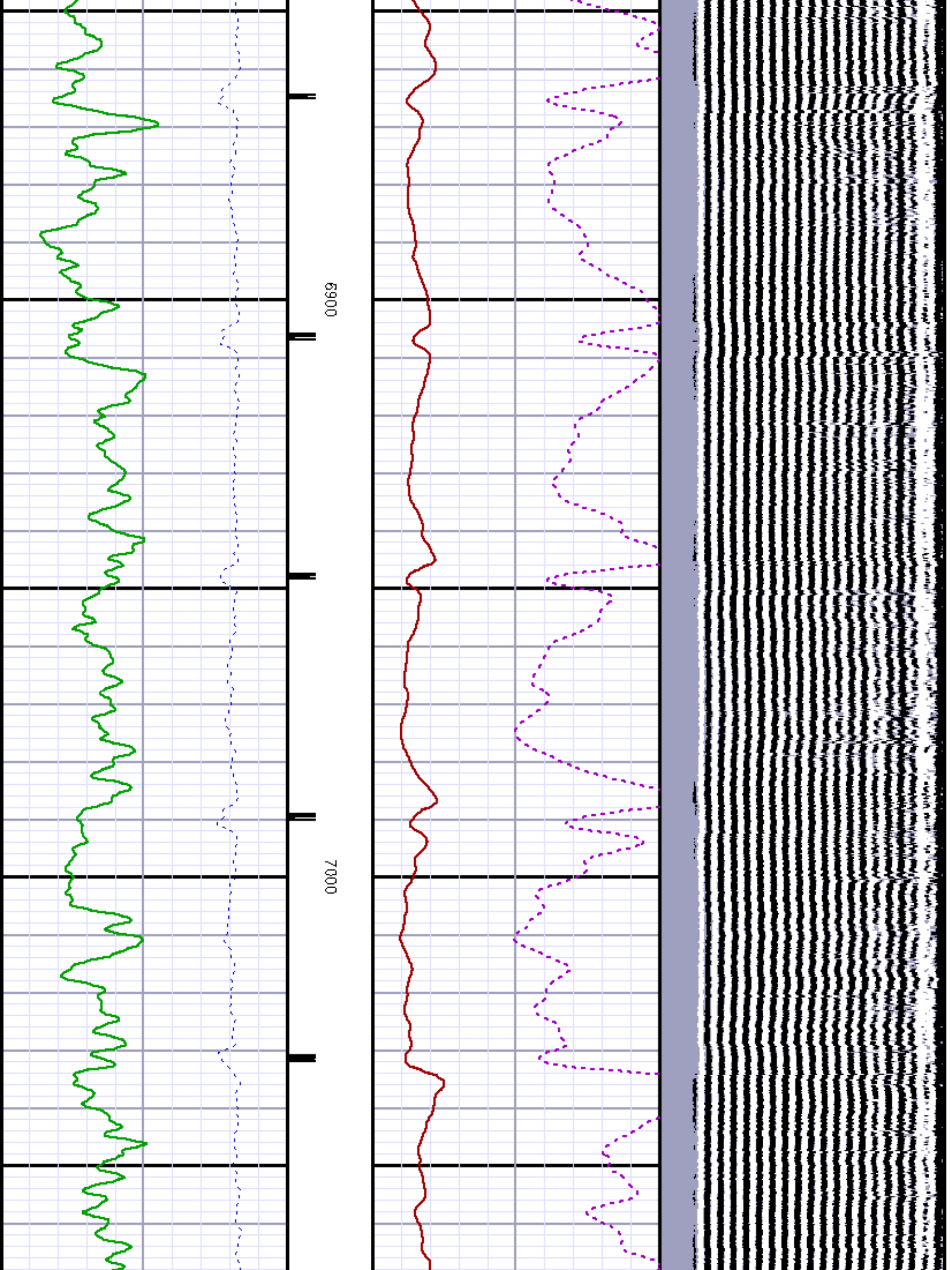


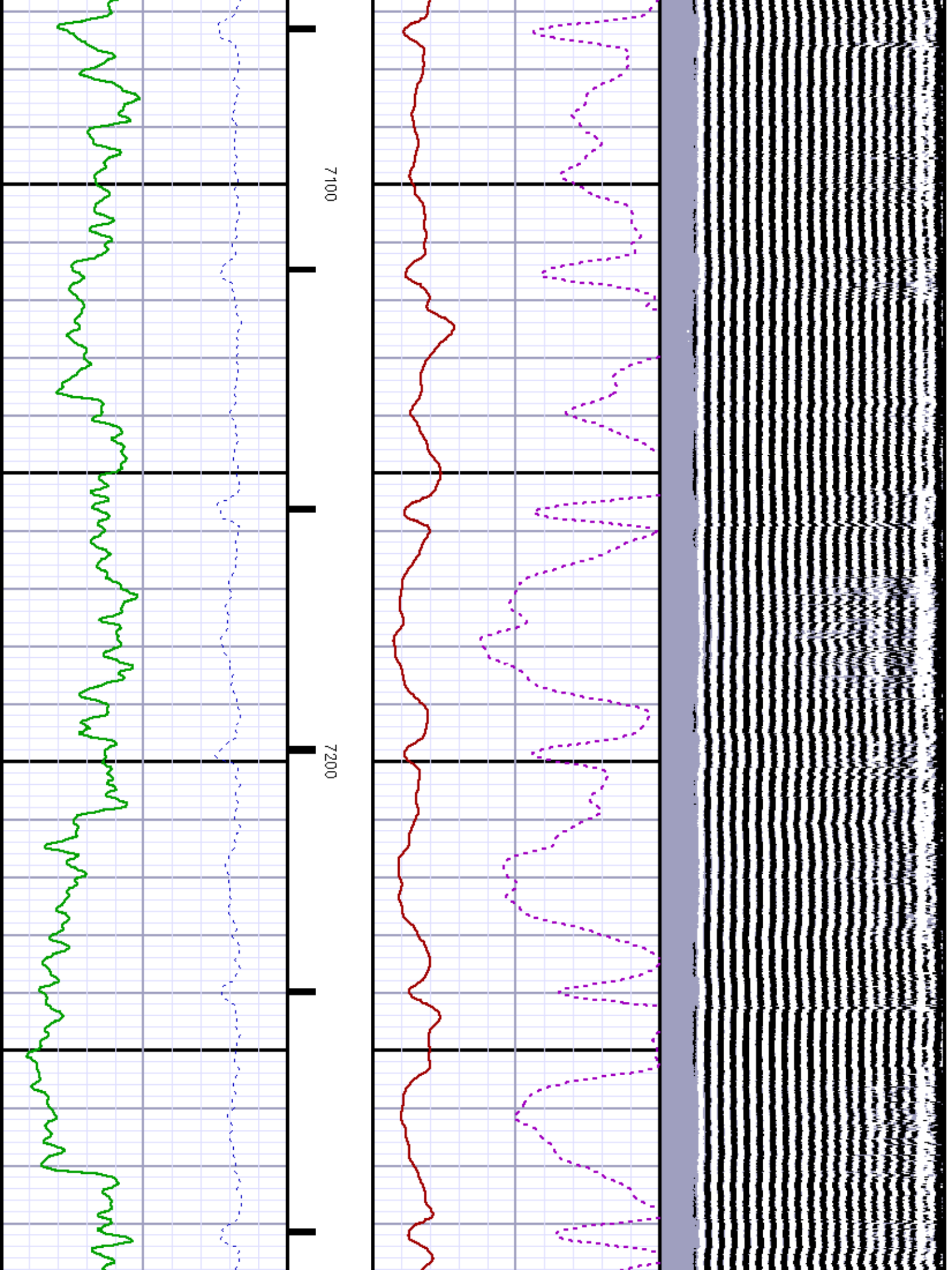




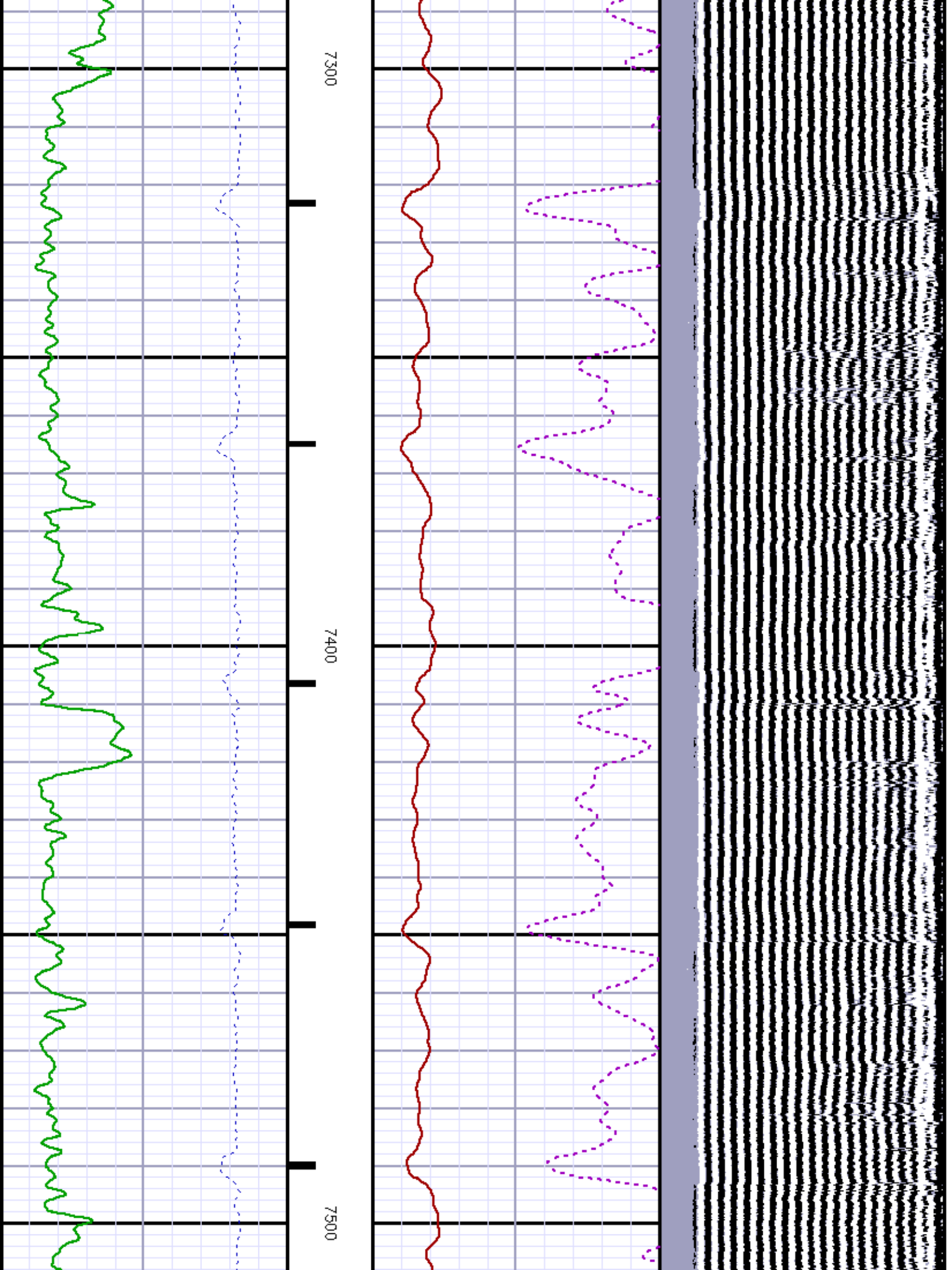


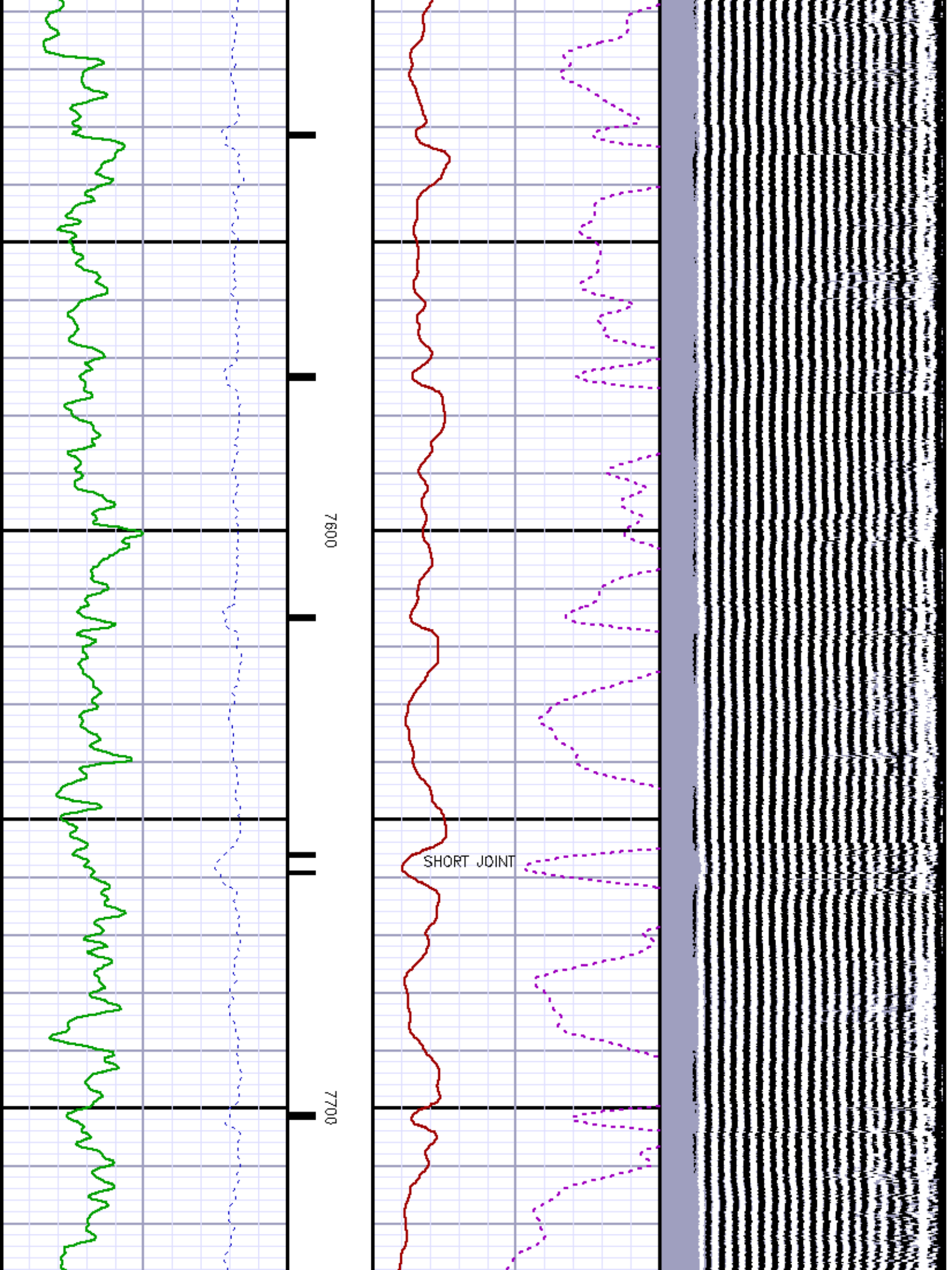




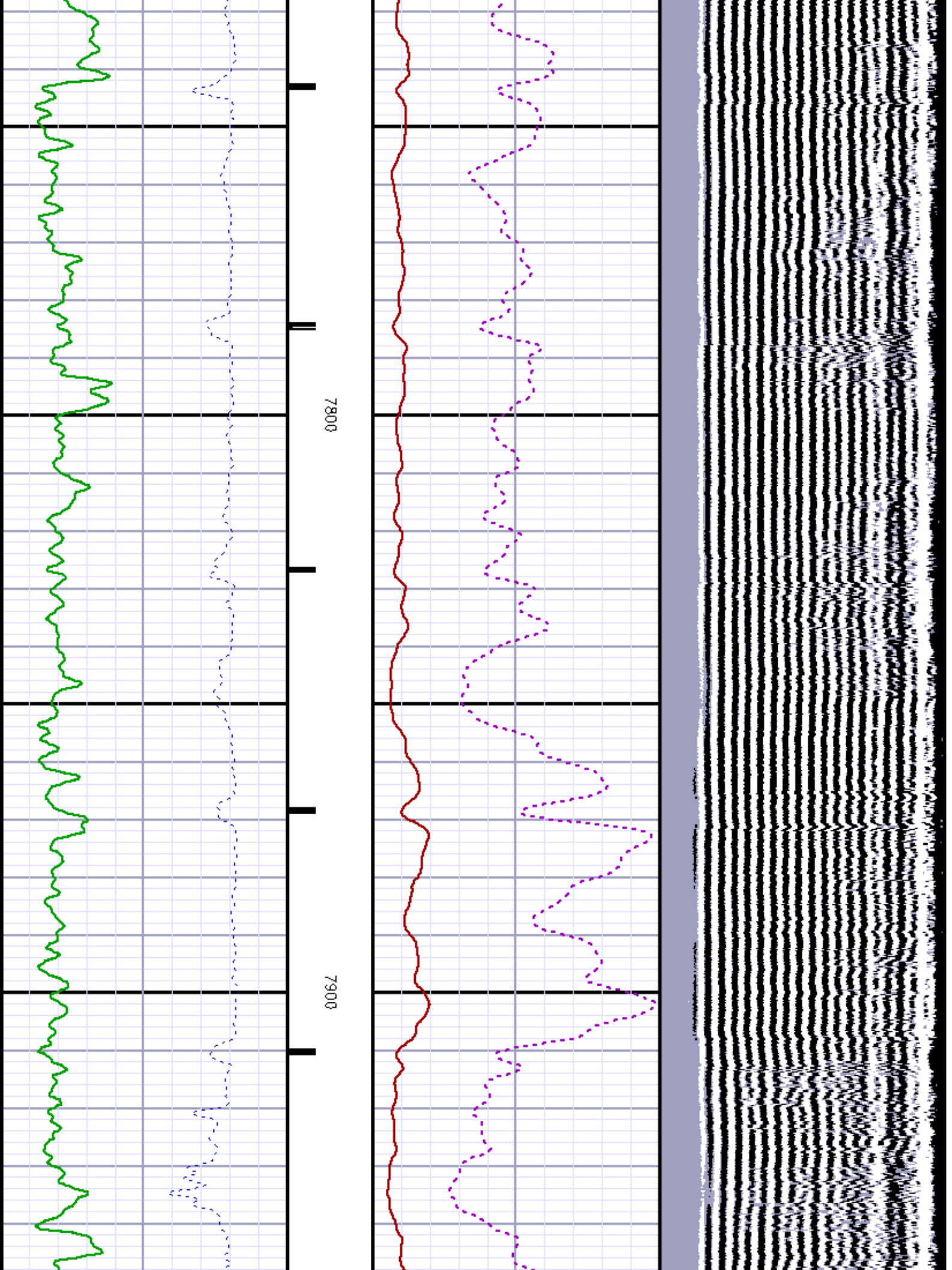


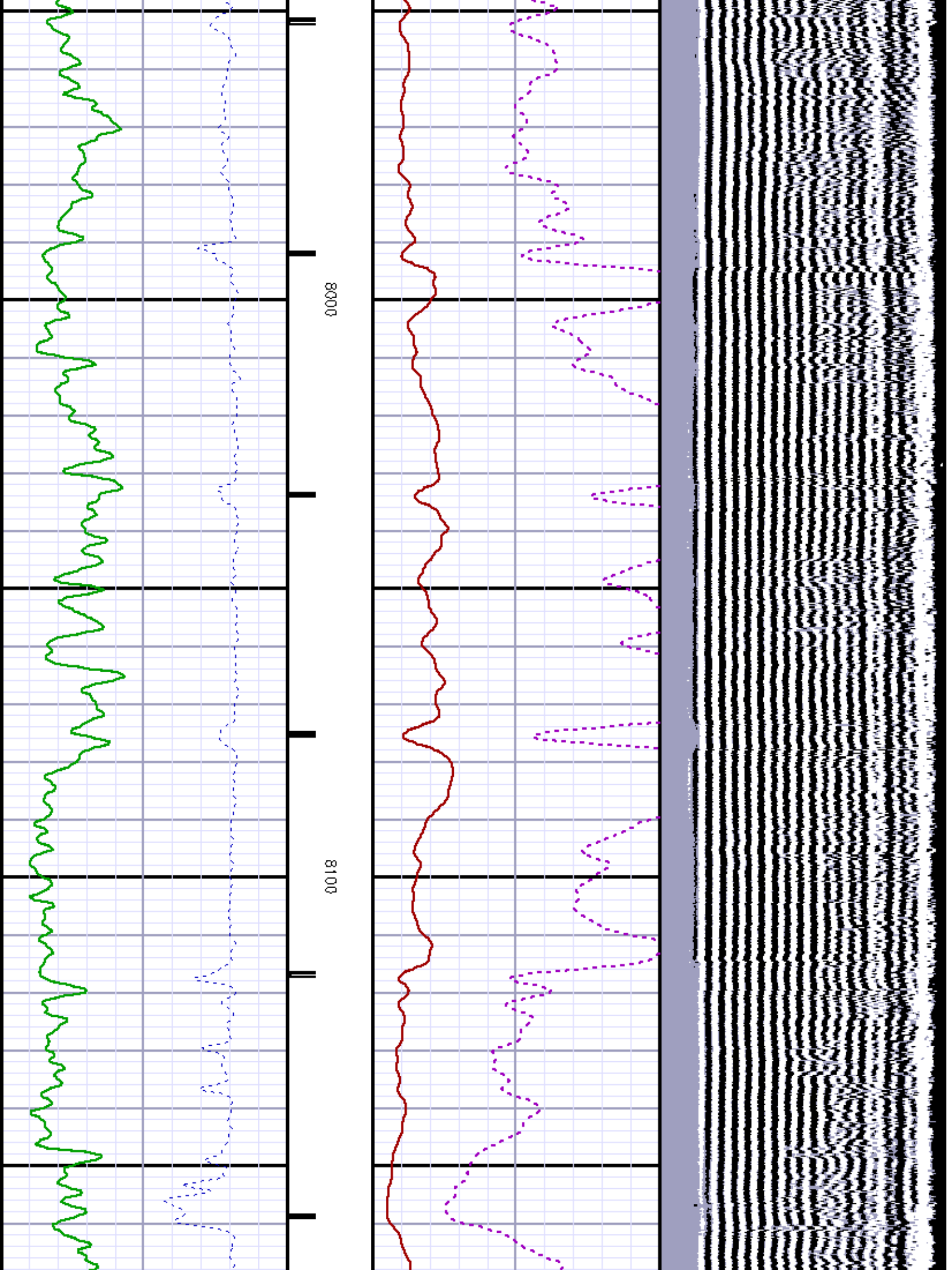


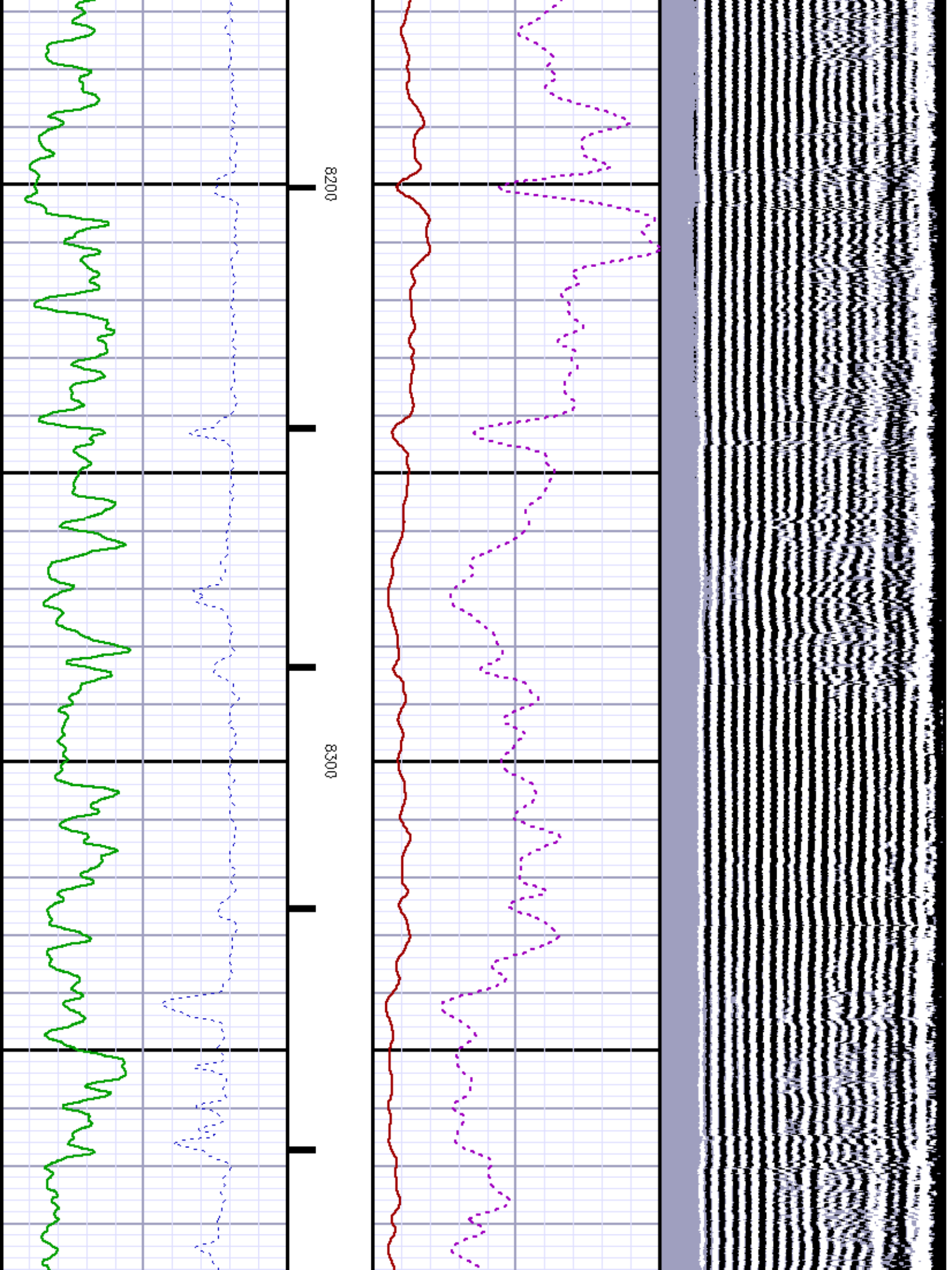




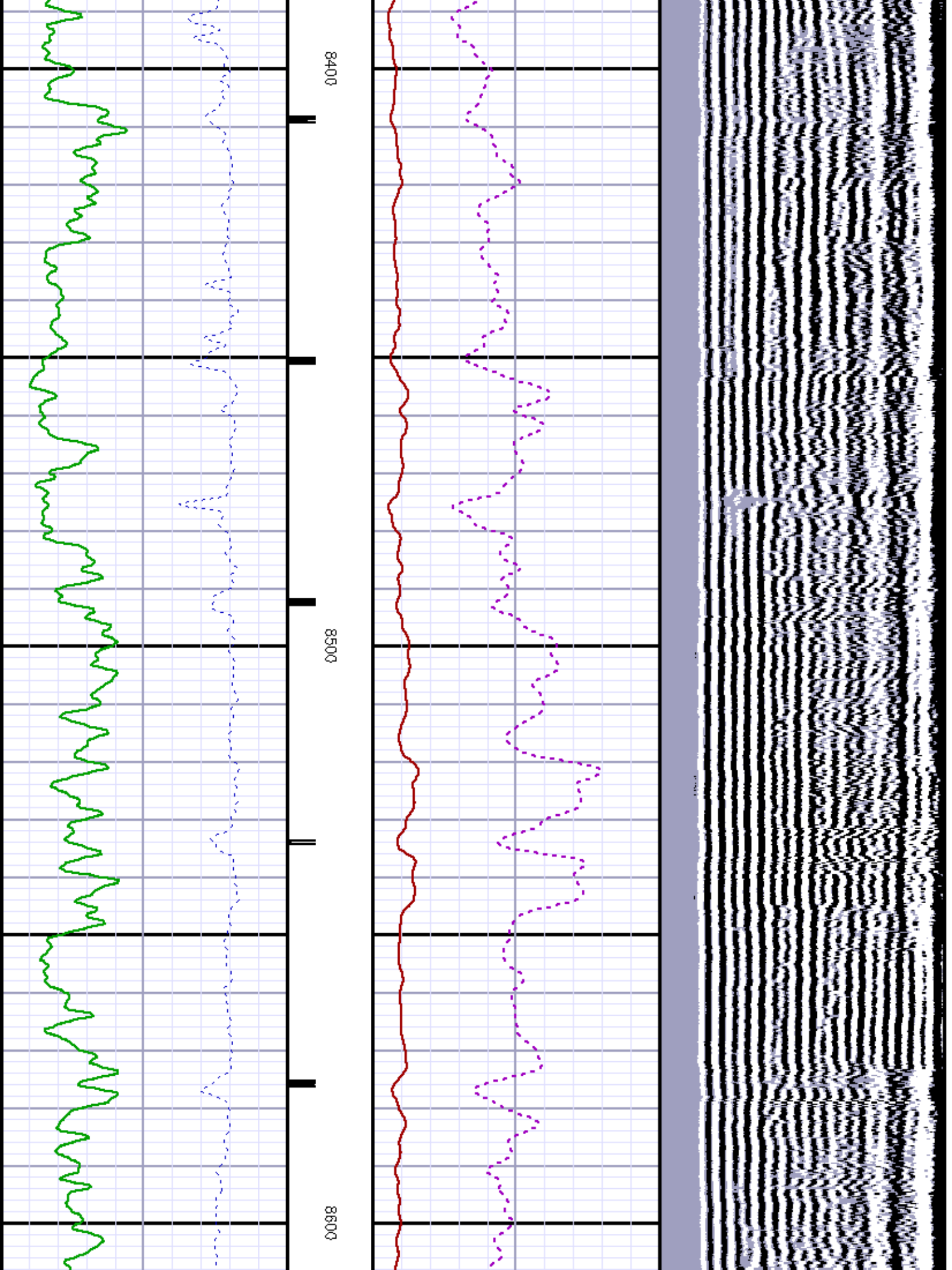


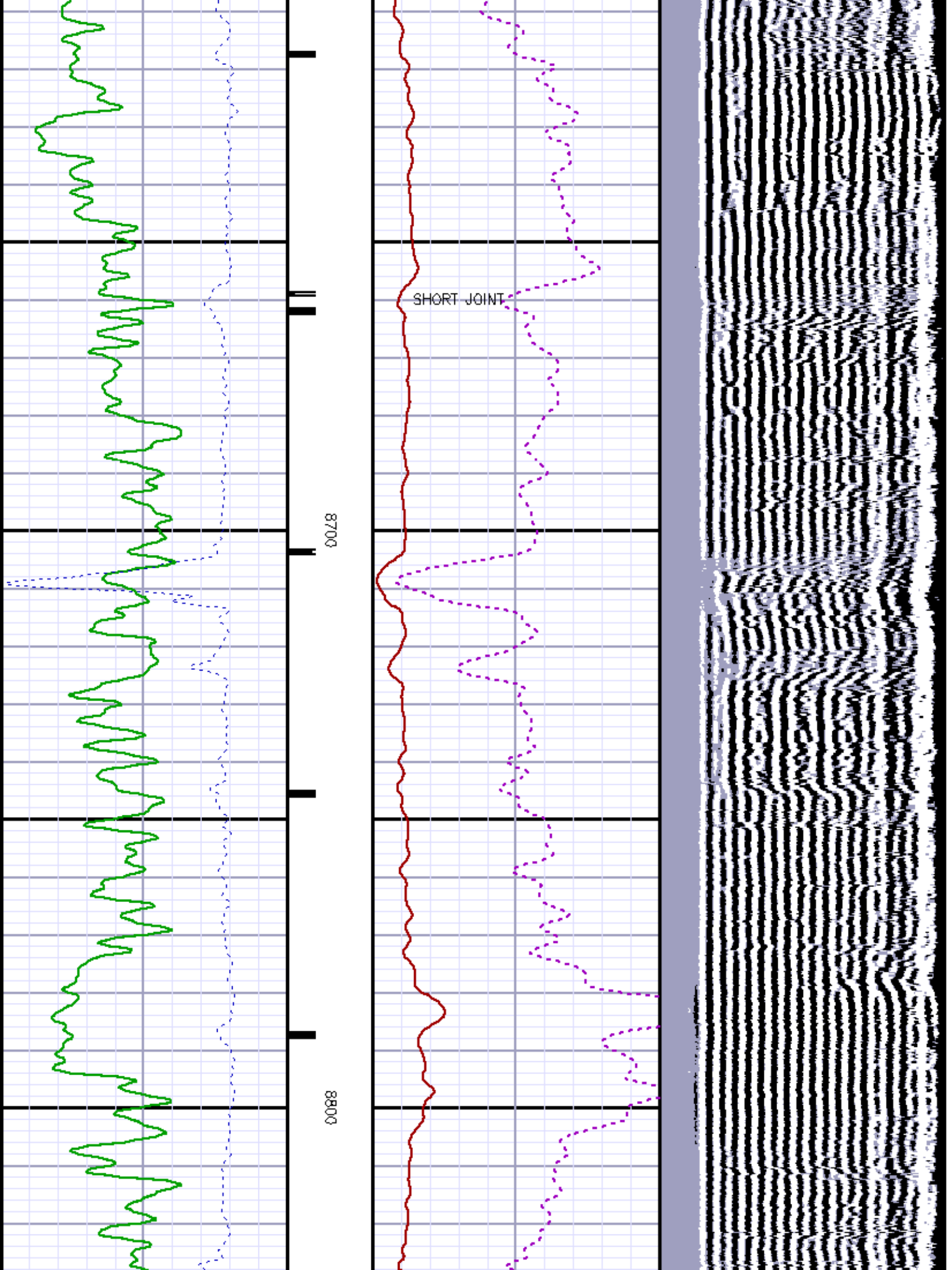




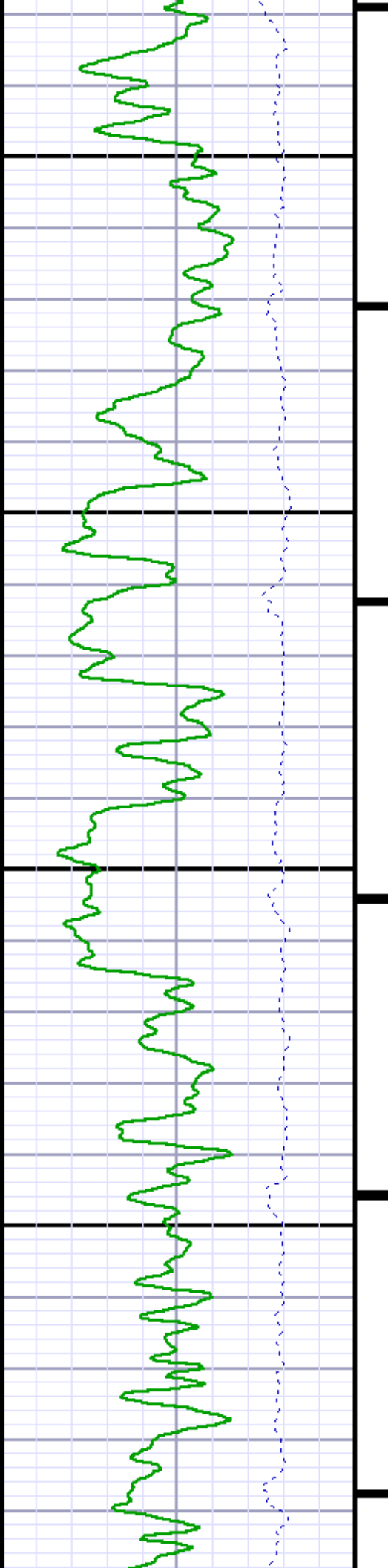






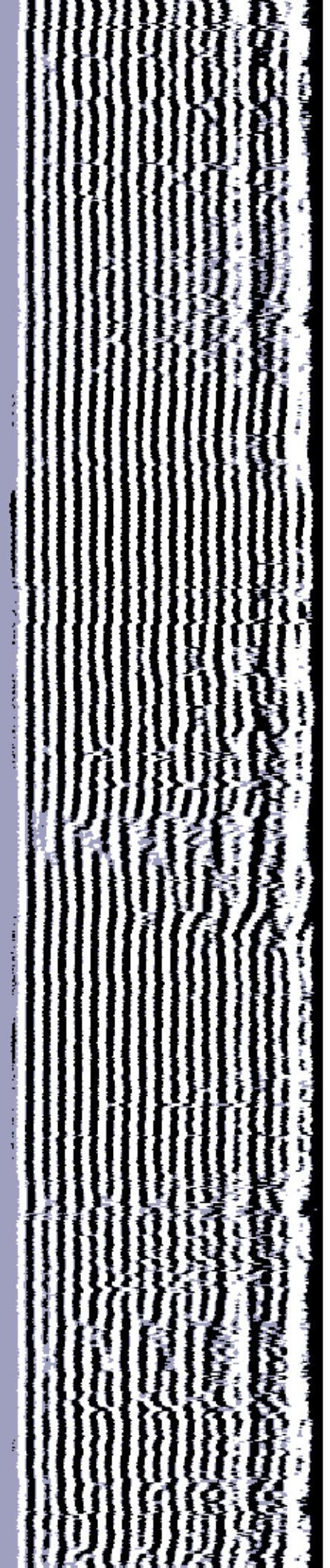
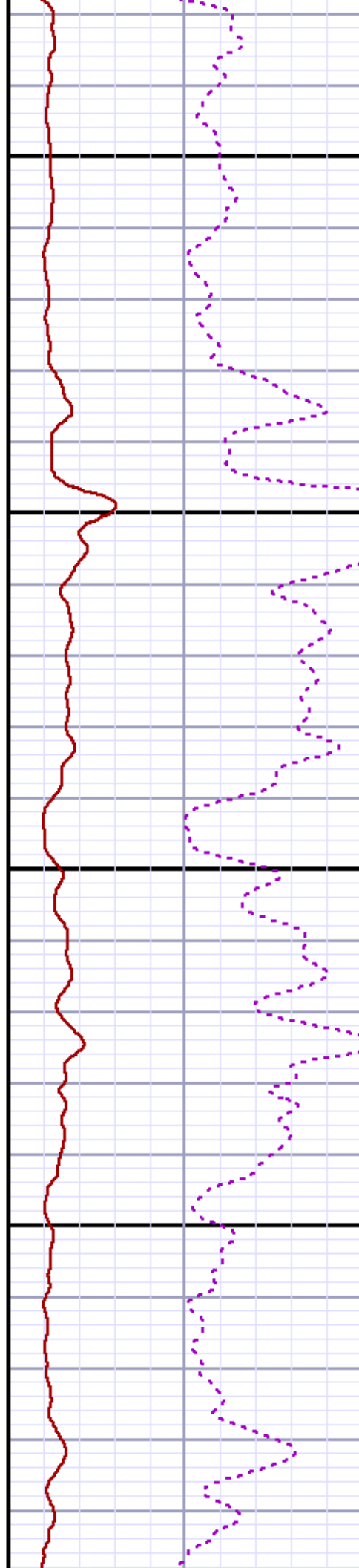


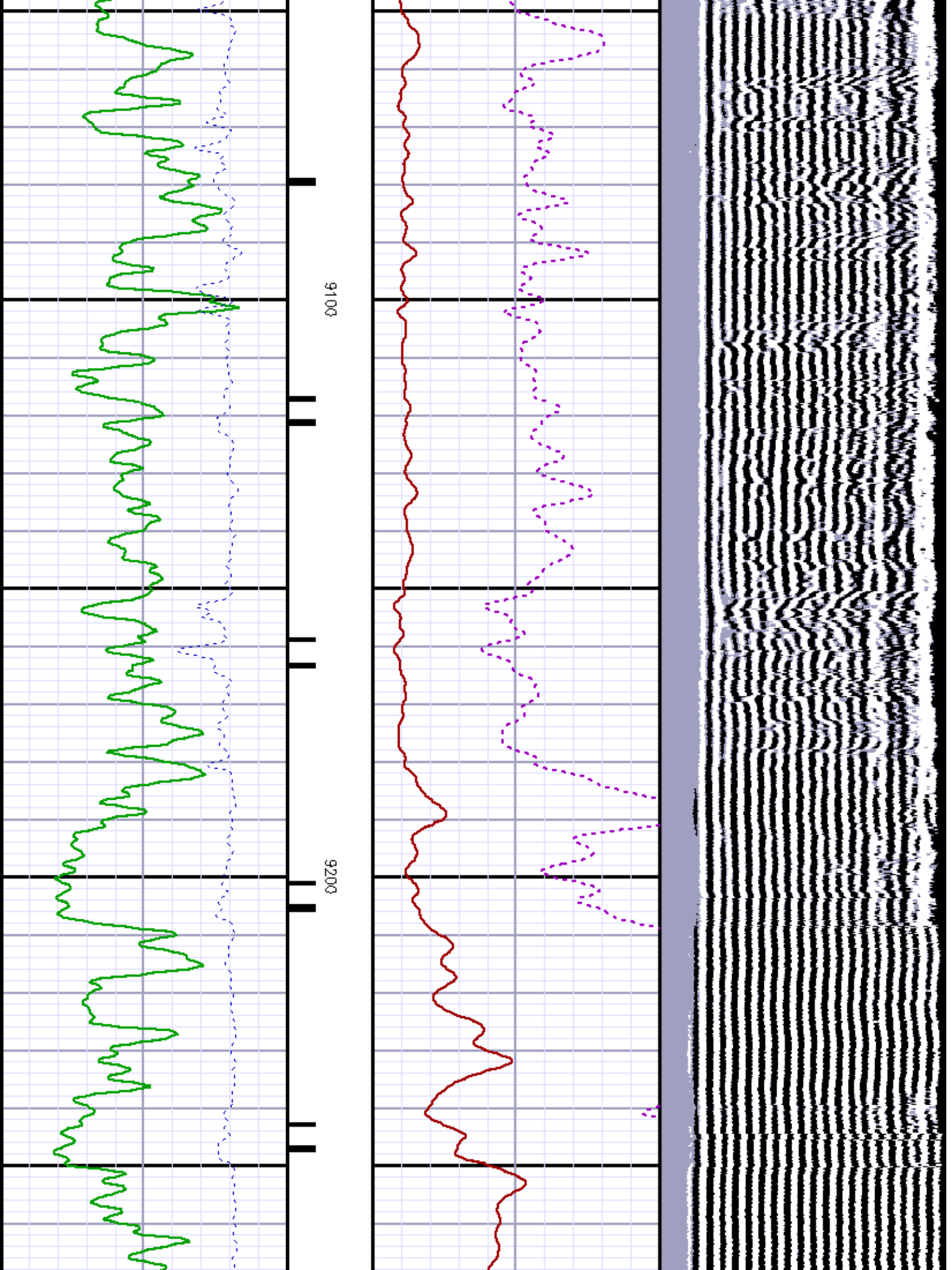


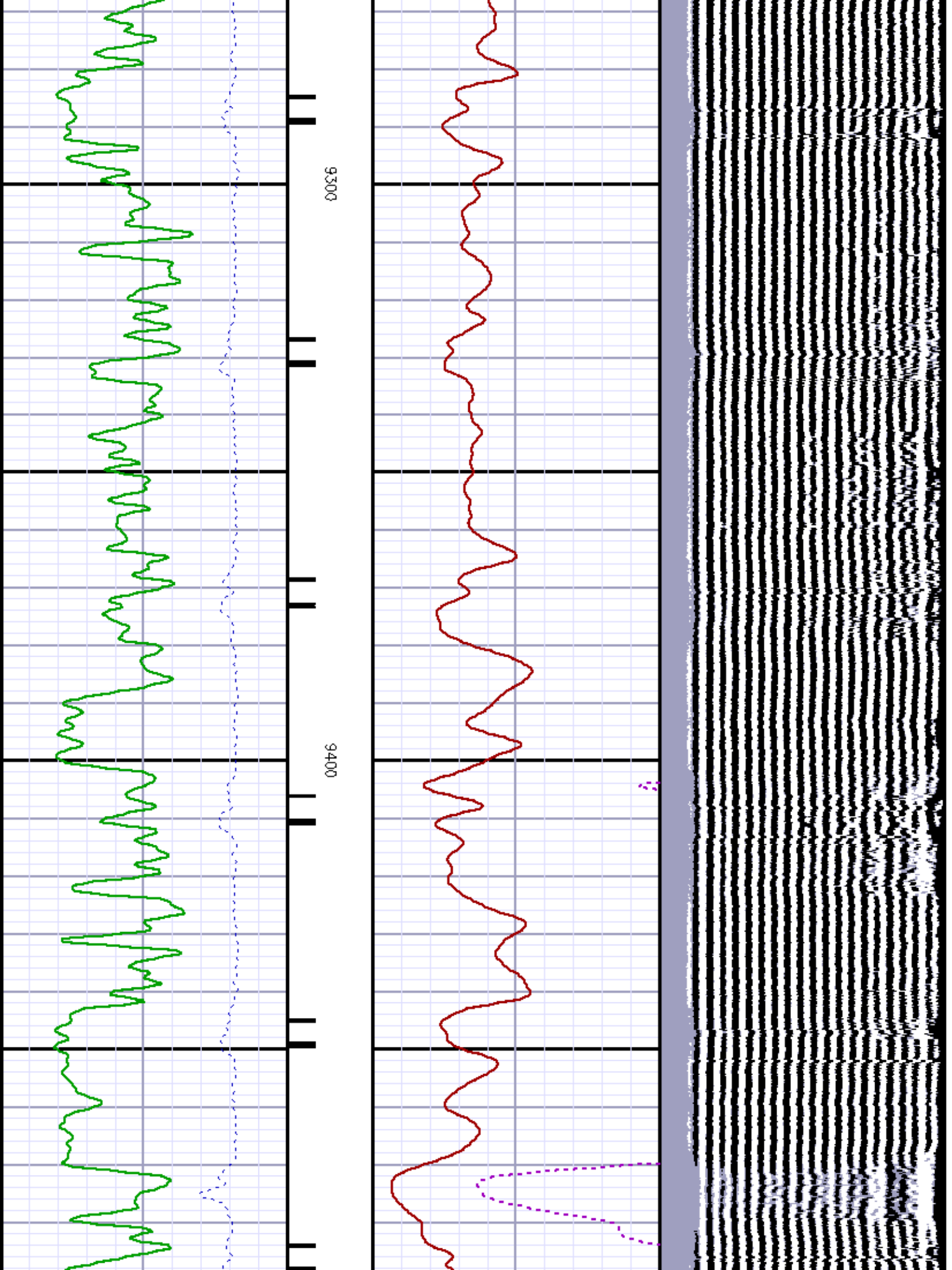


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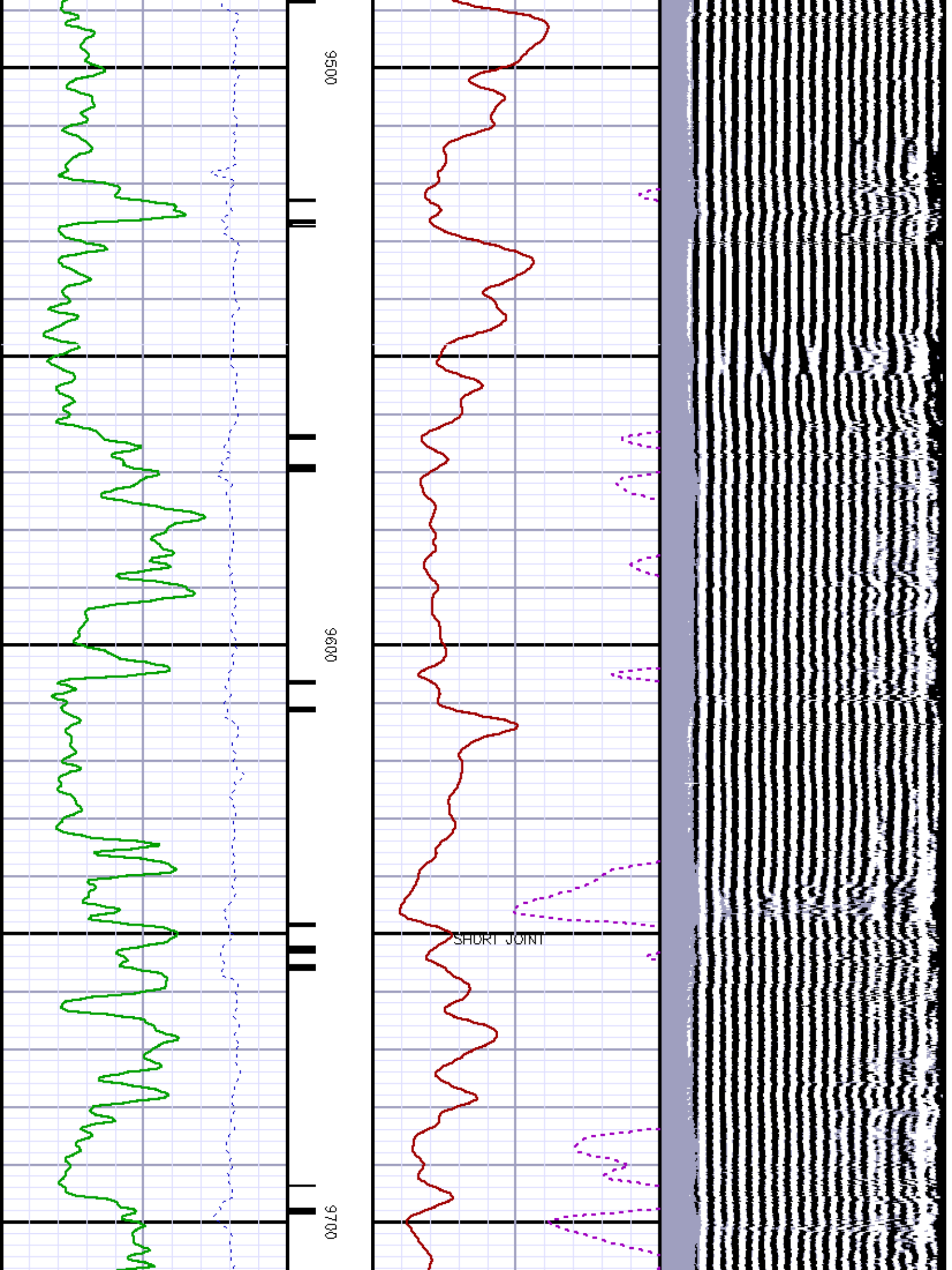
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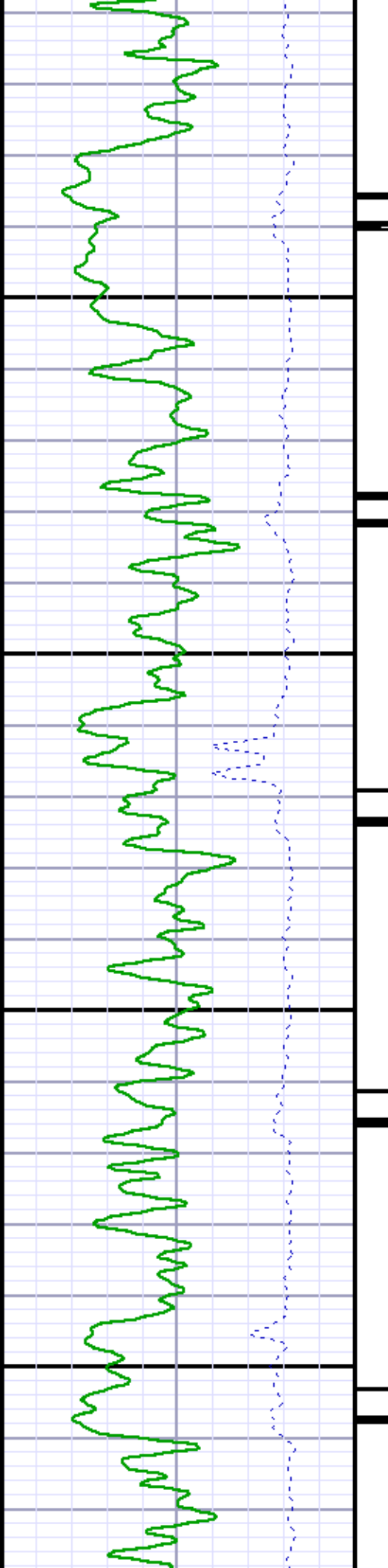






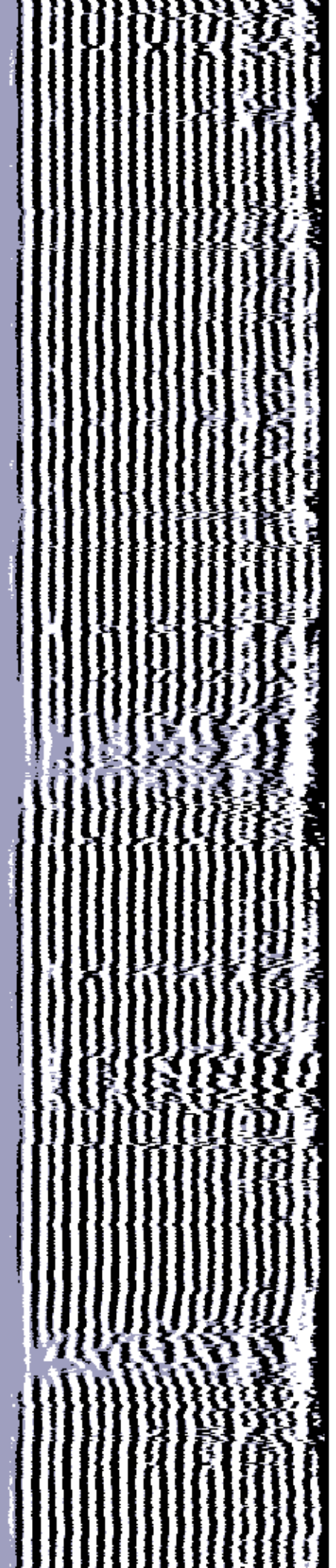
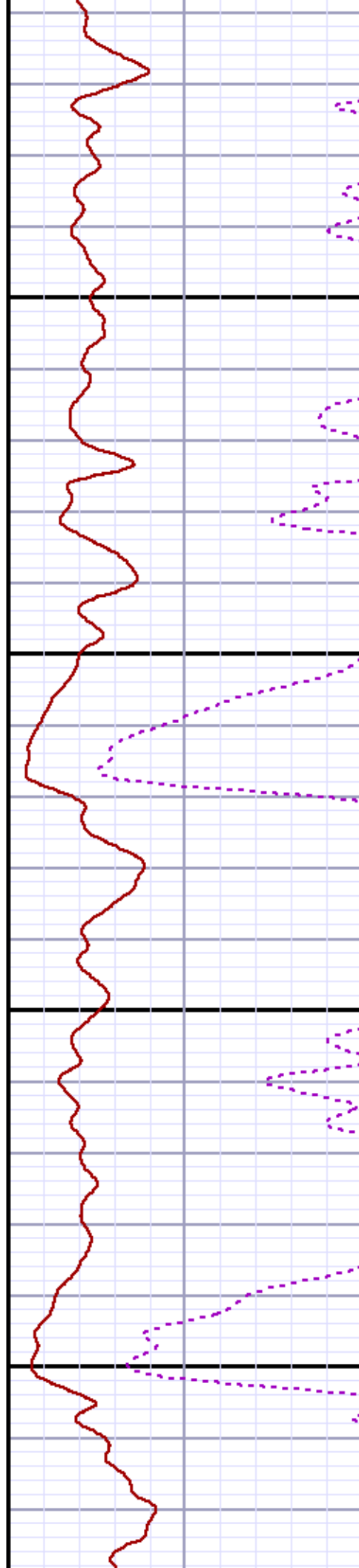


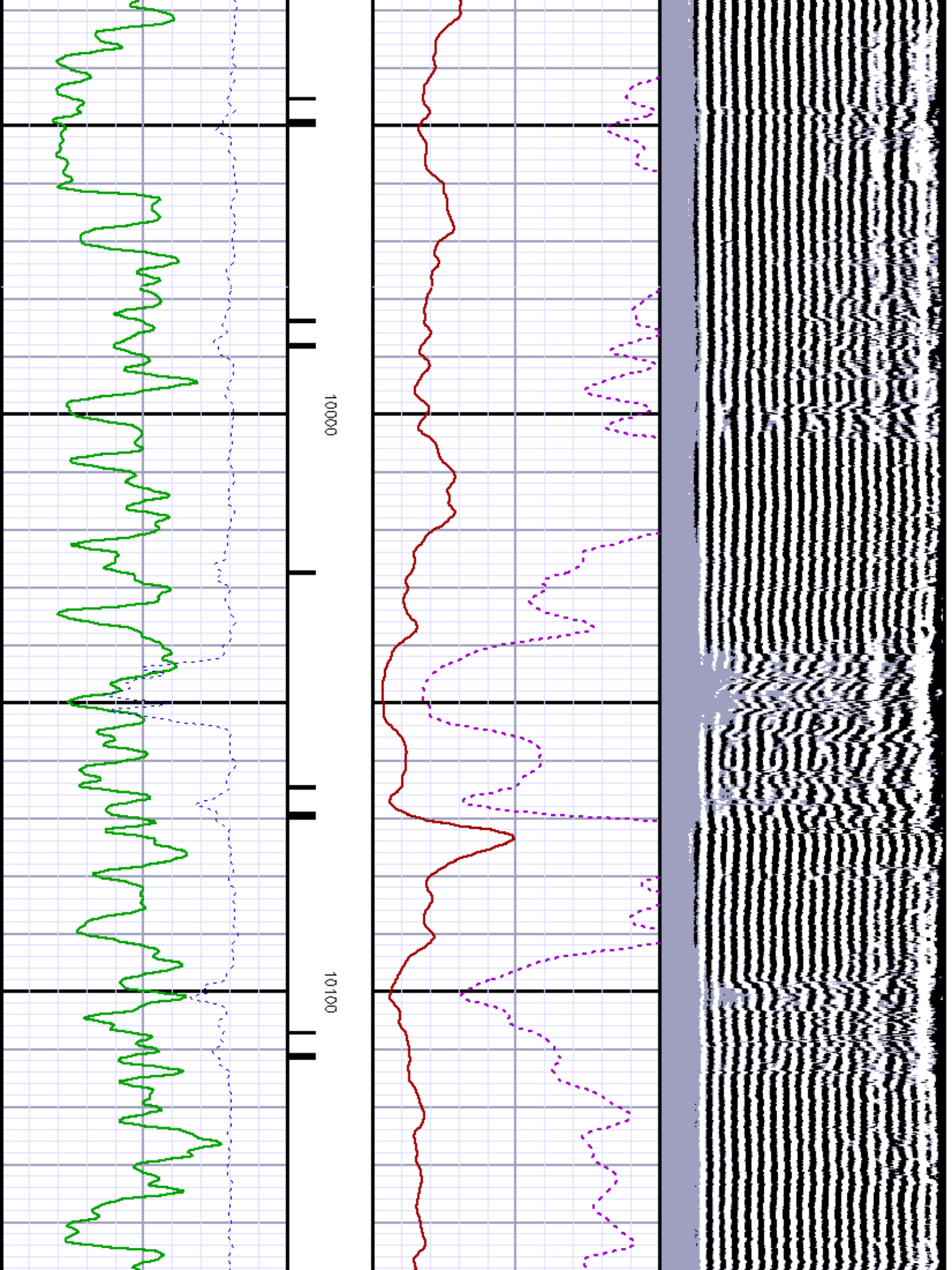


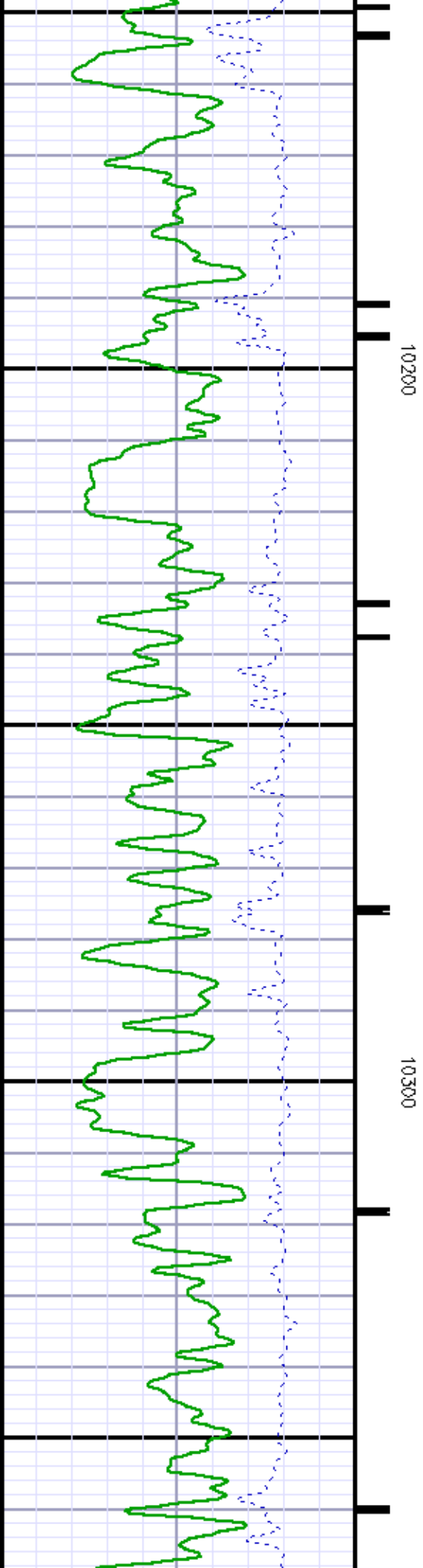
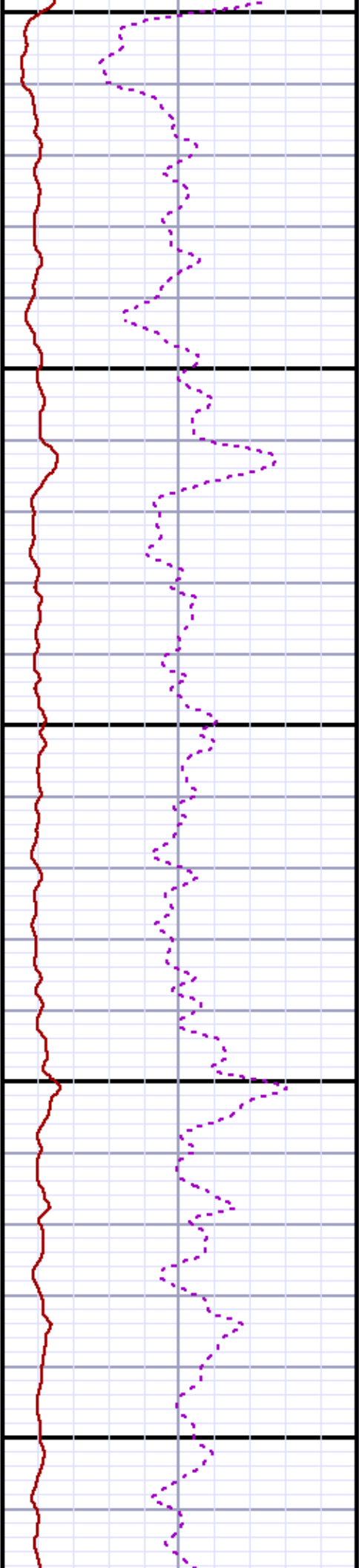
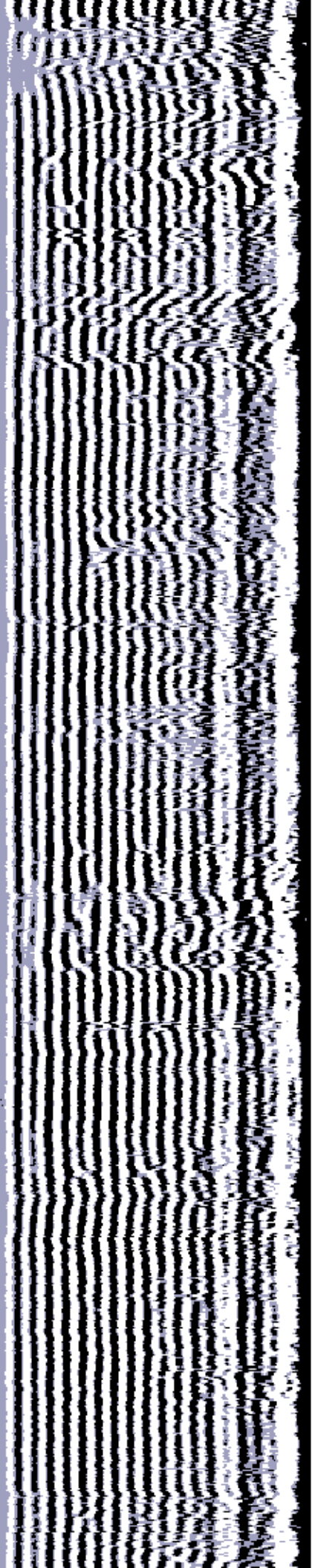


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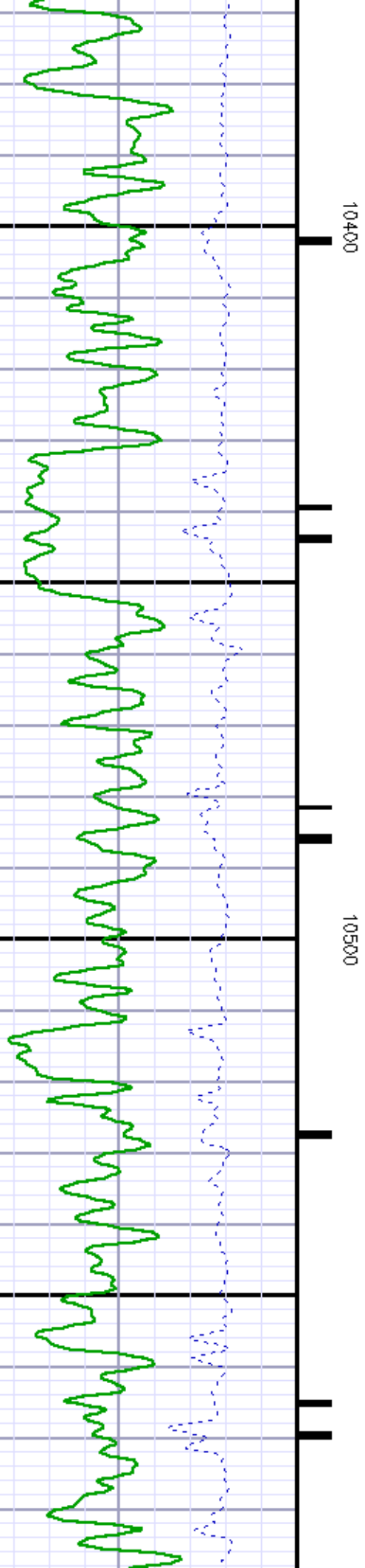
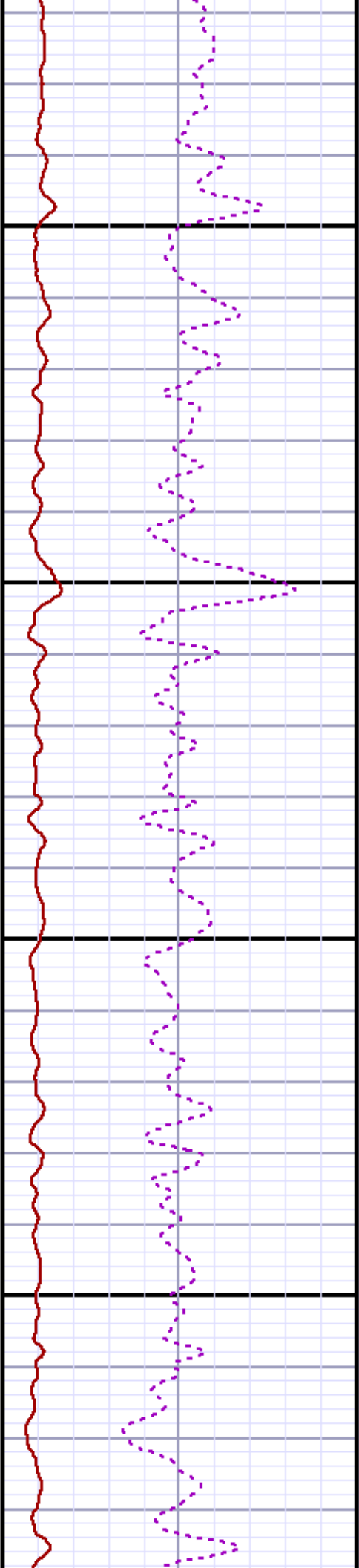
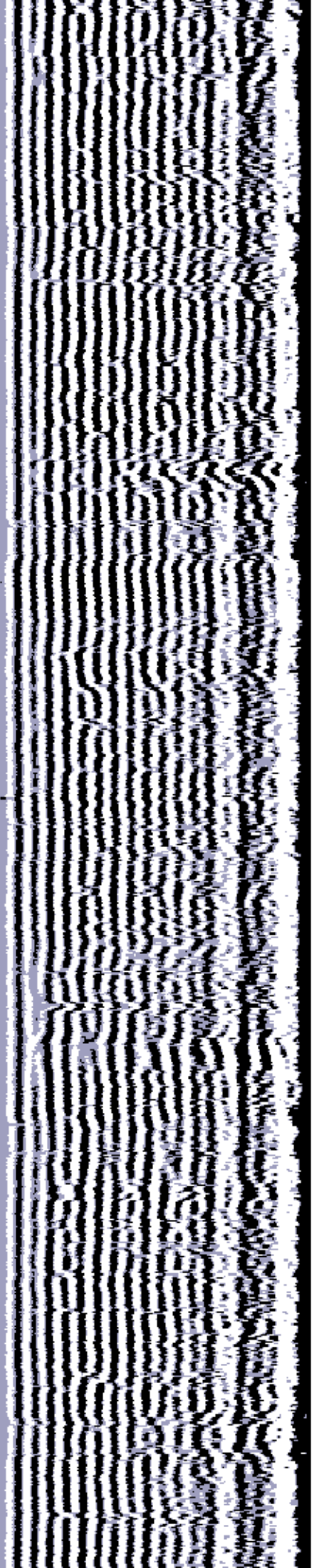
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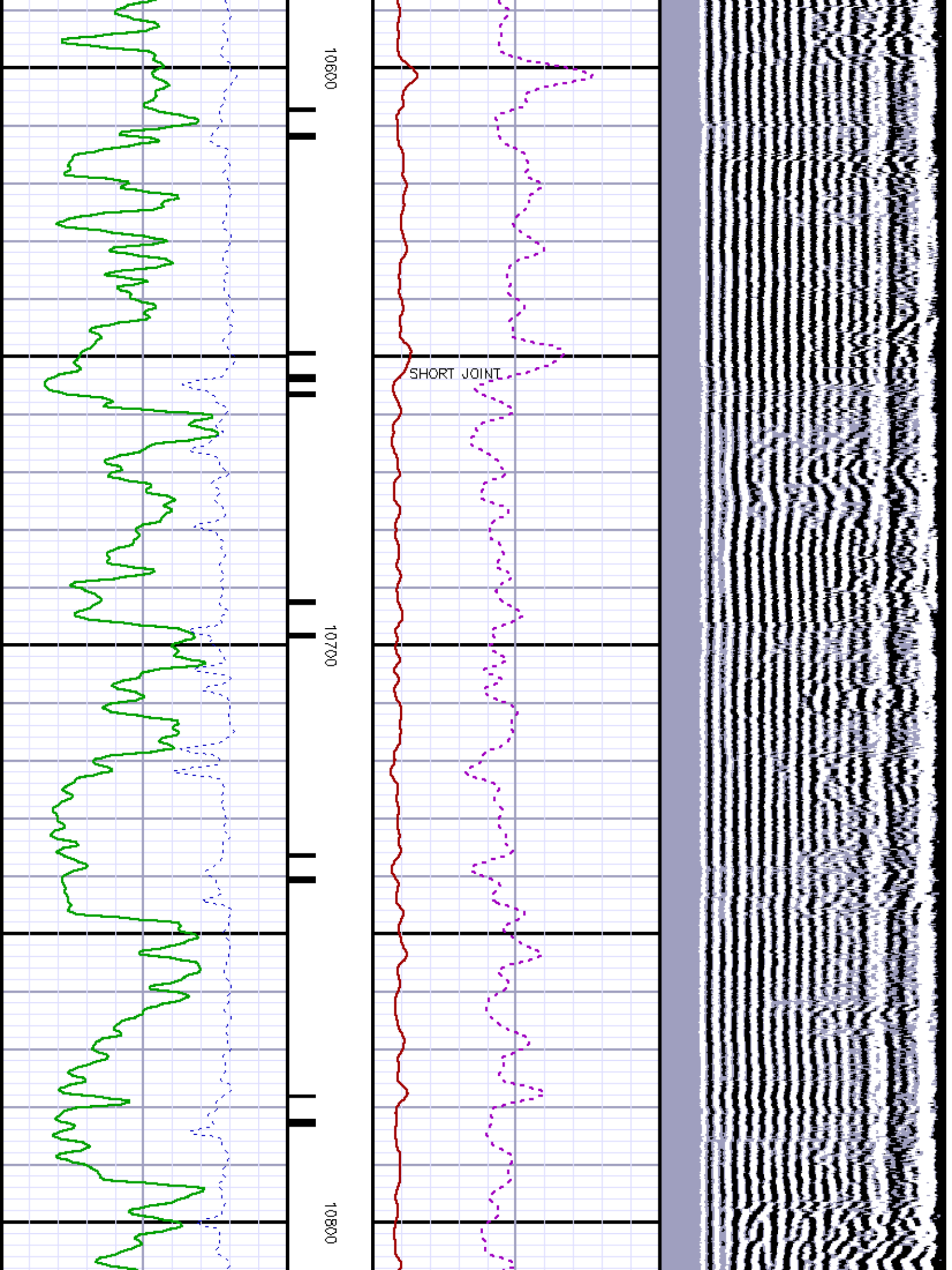


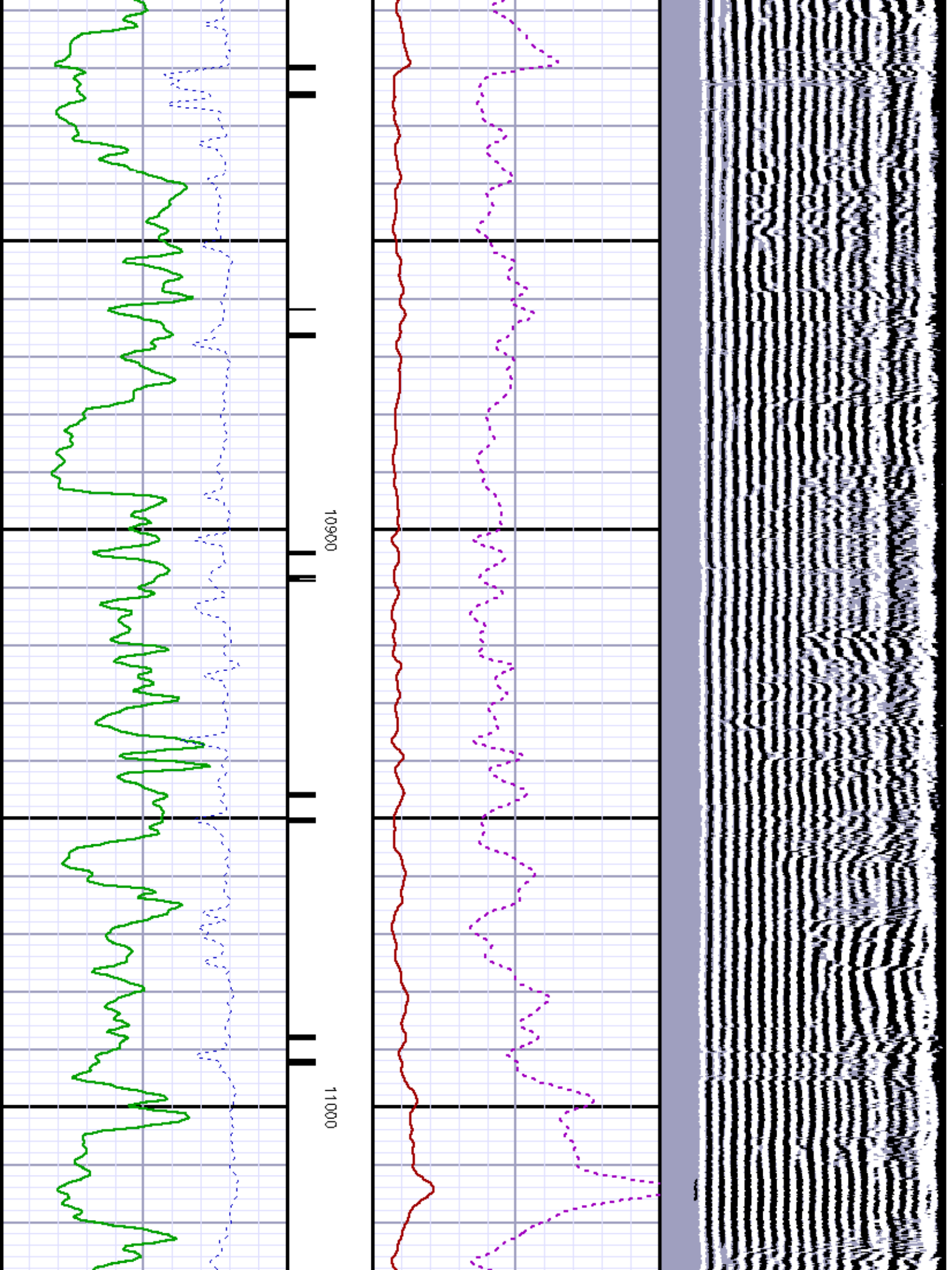


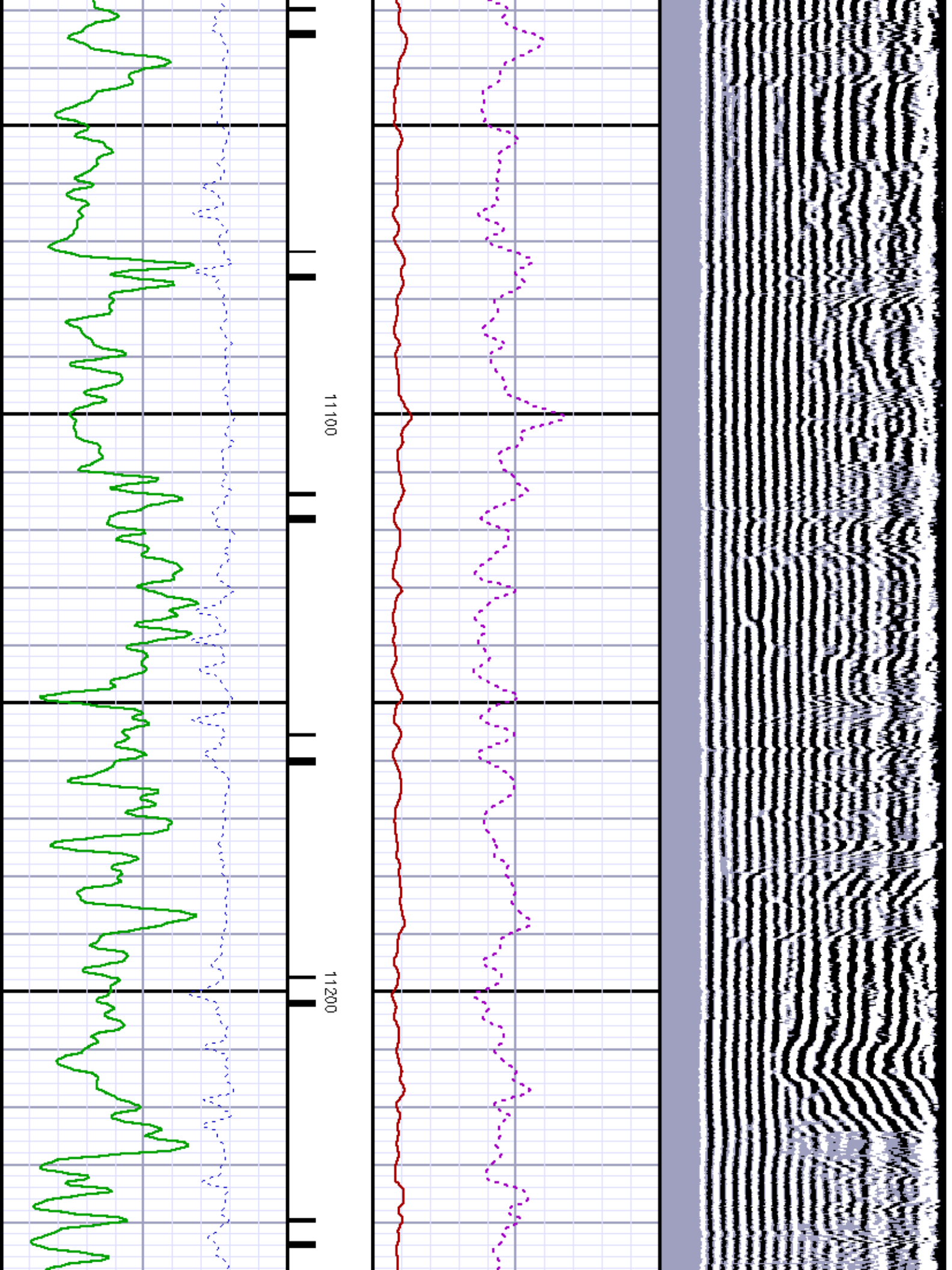




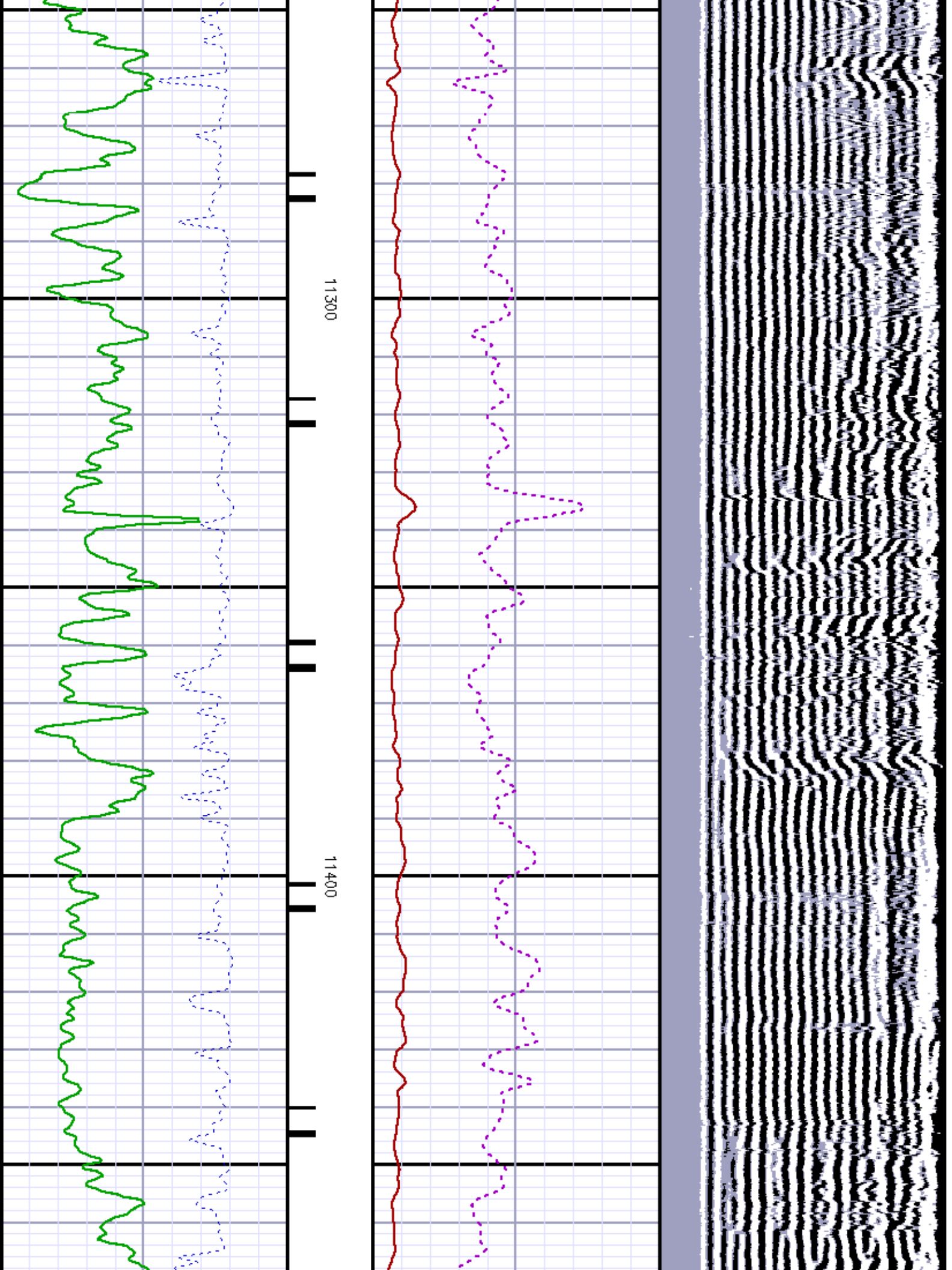


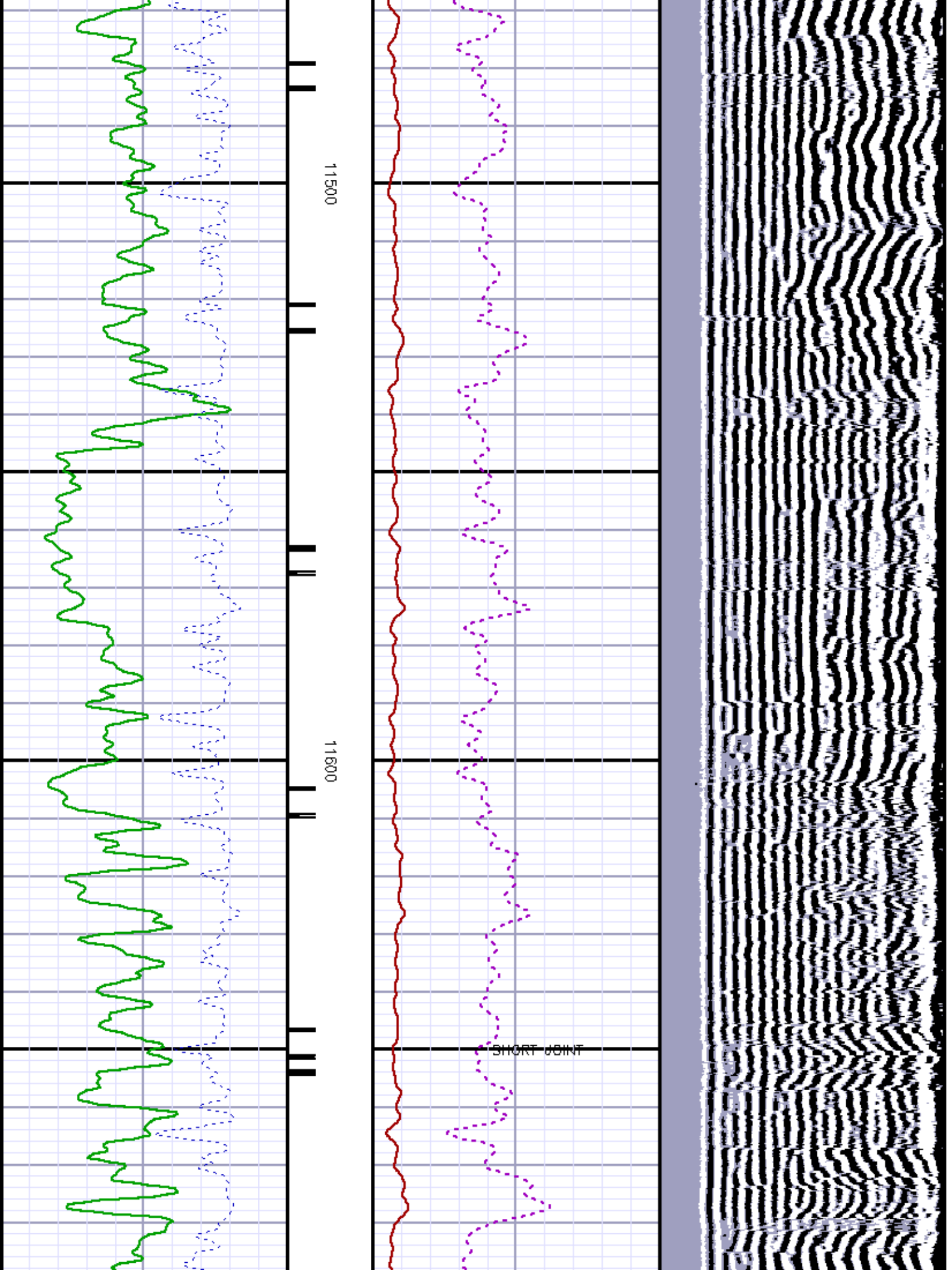


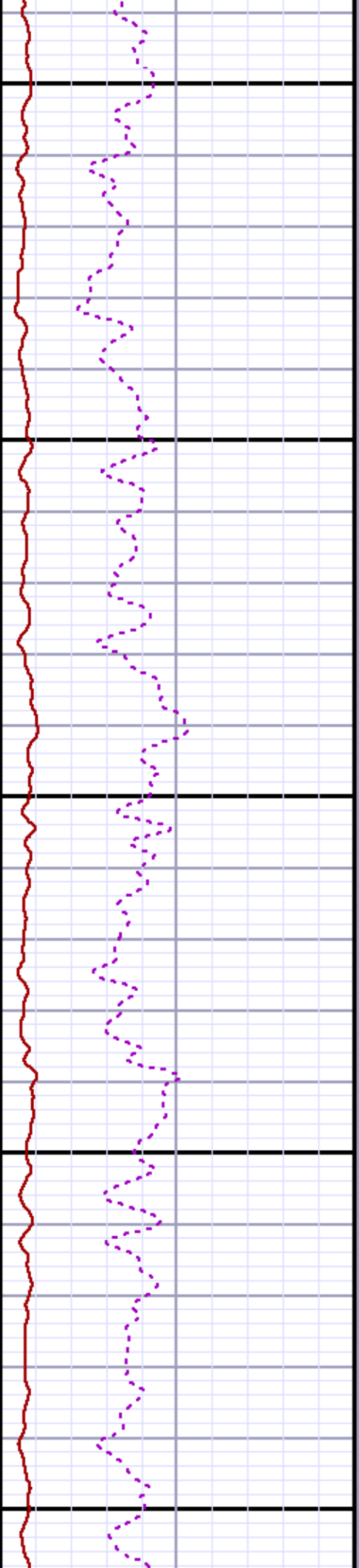
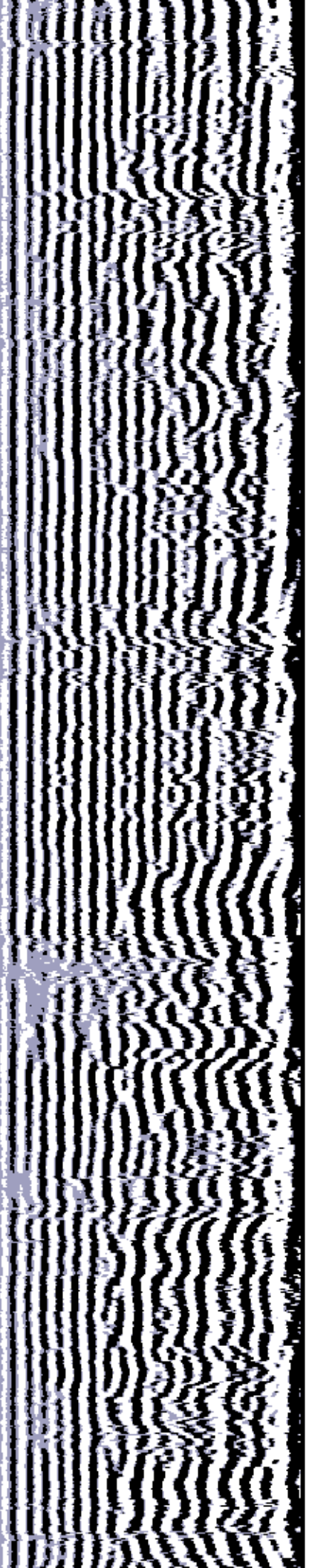








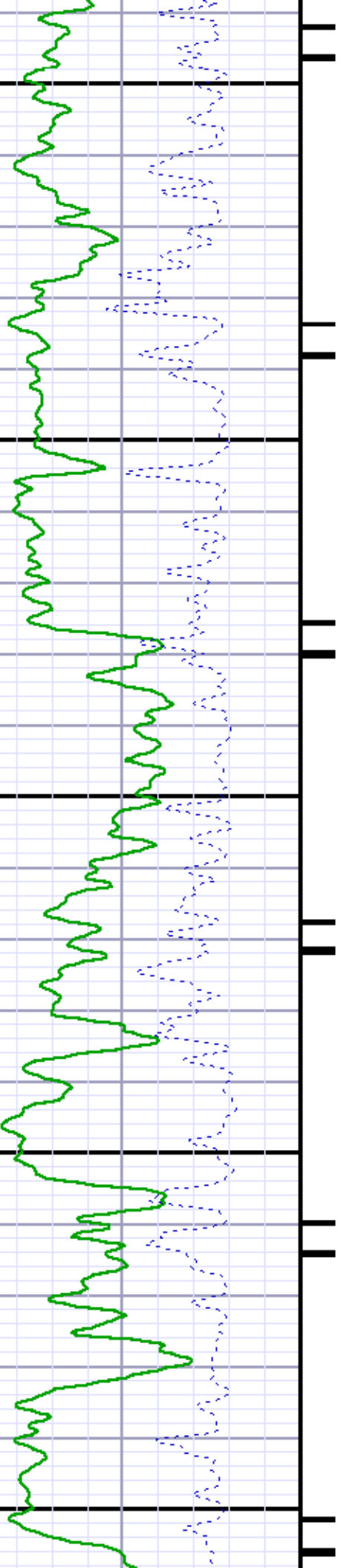




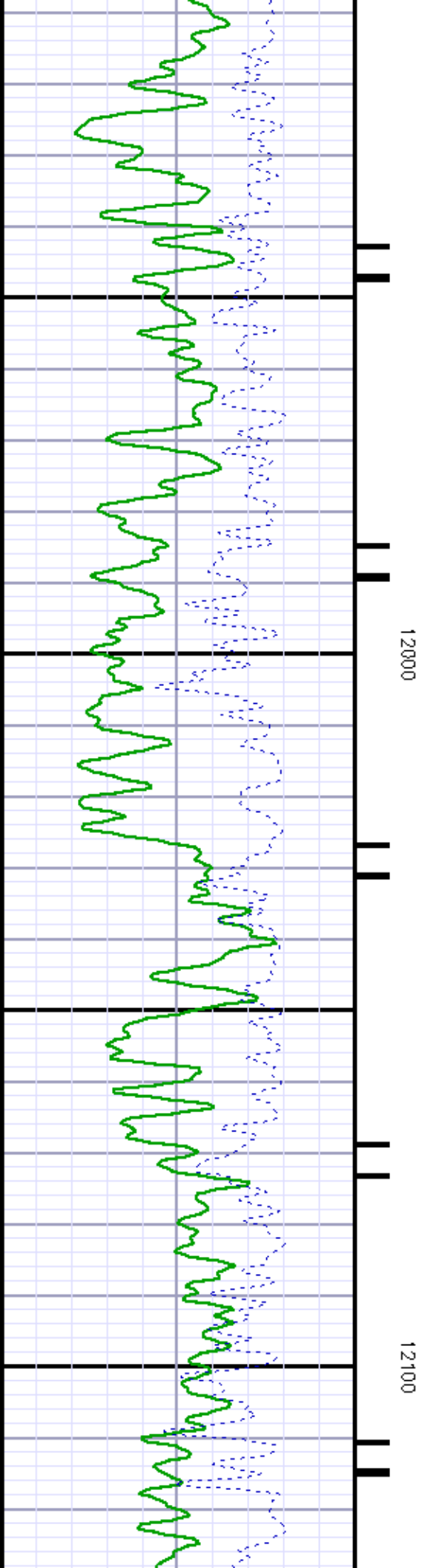
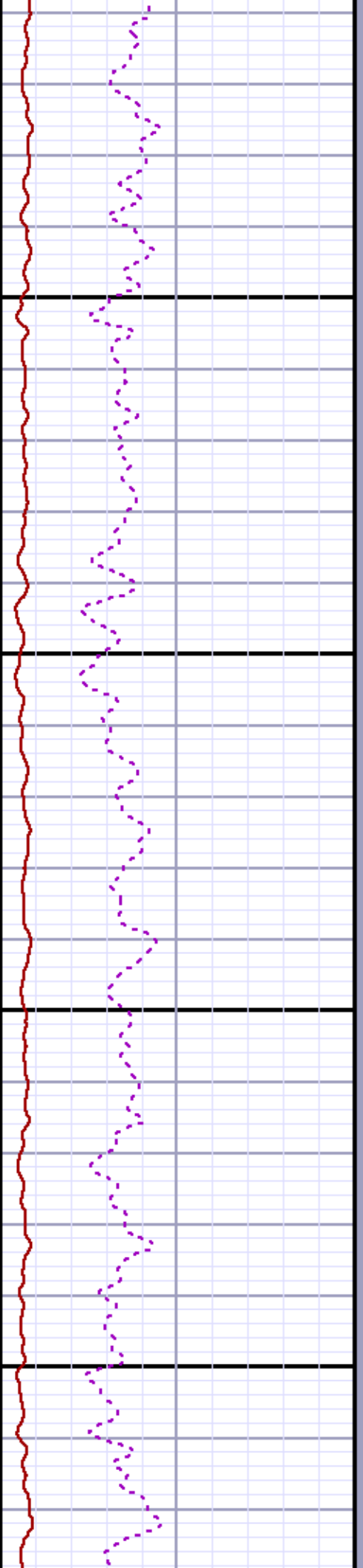
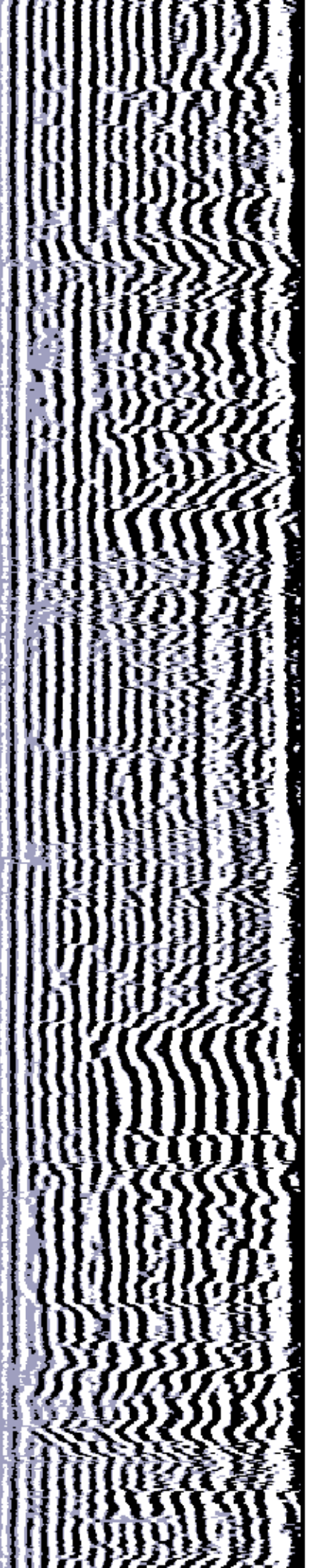
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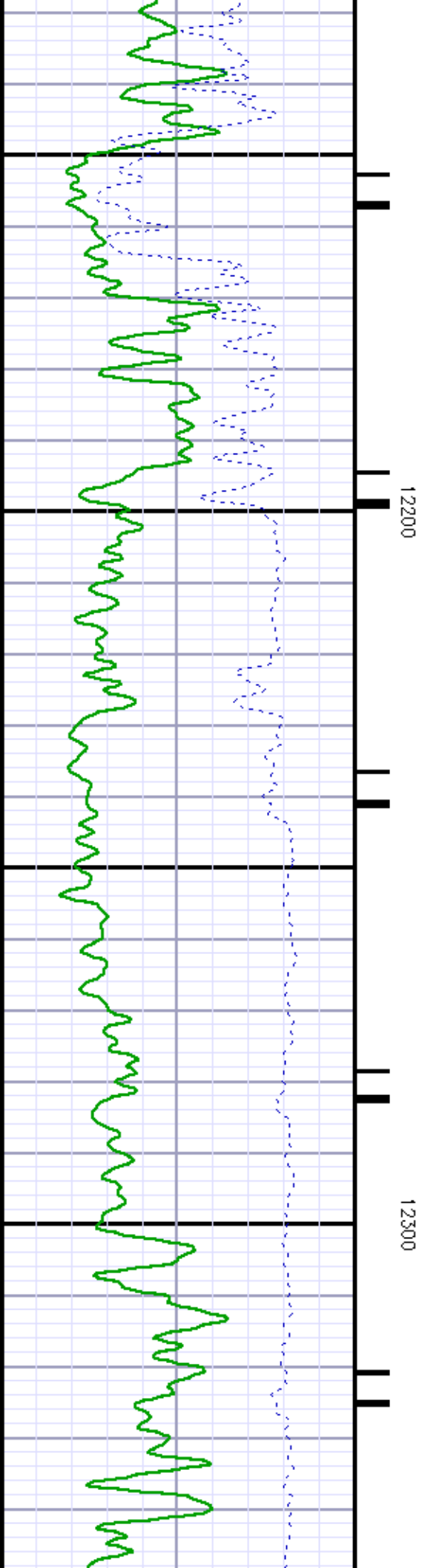
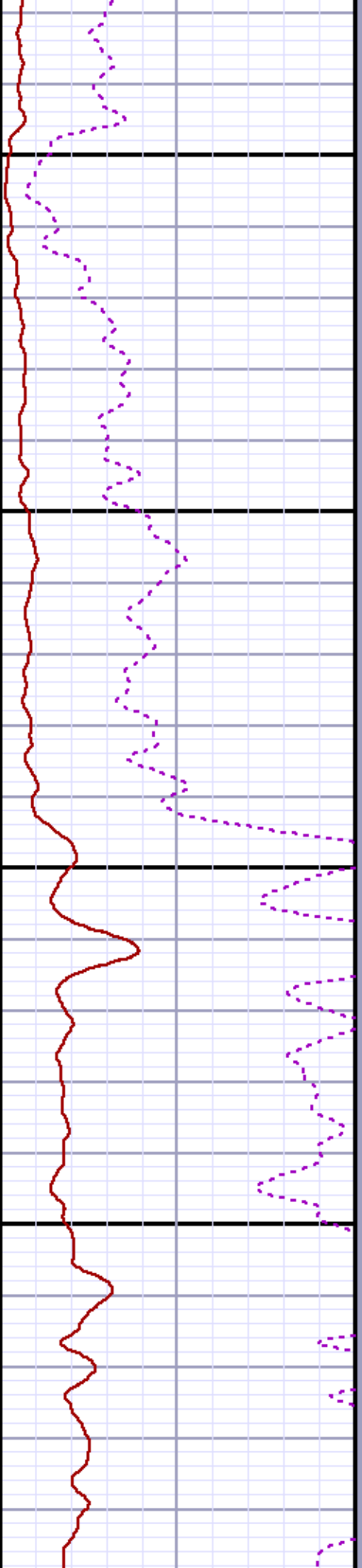
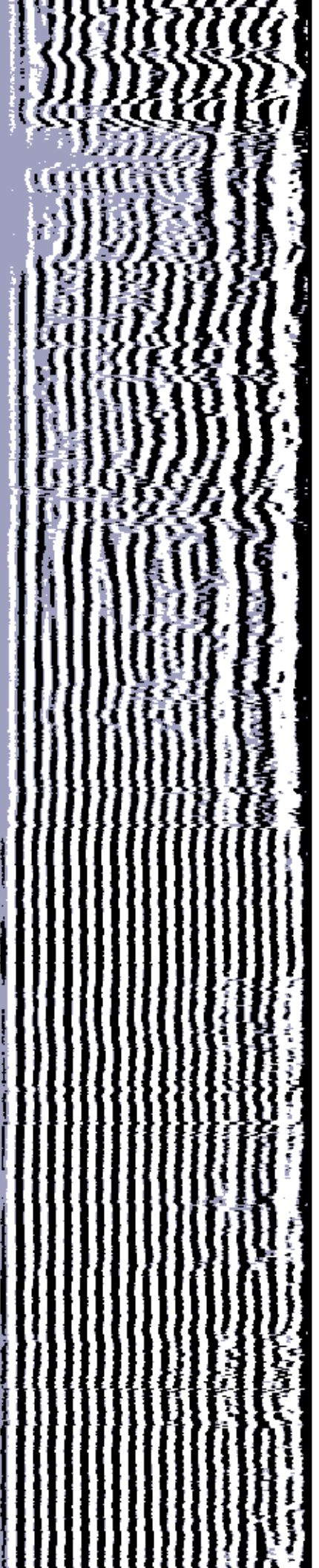
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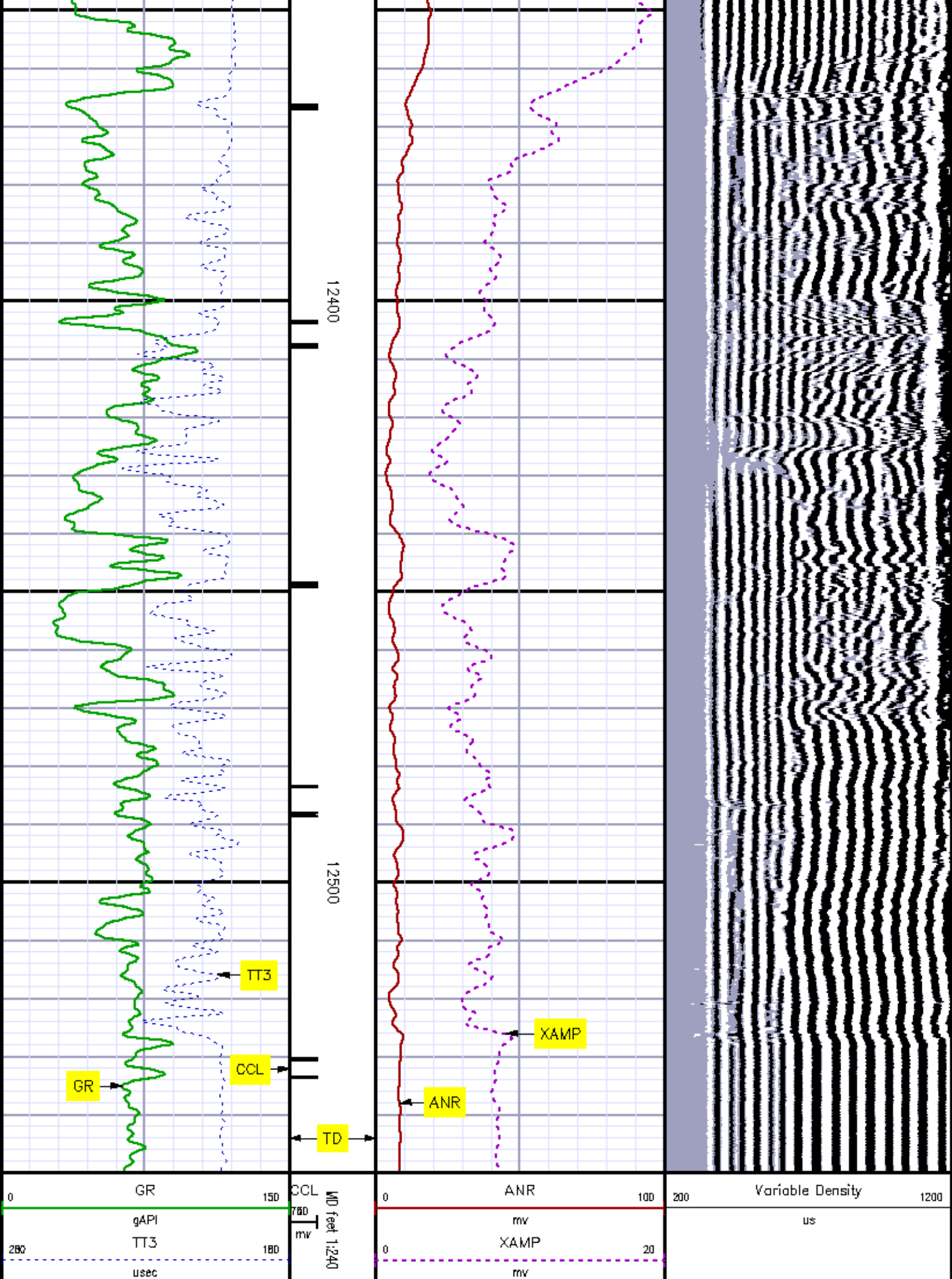
11900













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

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	3218.600	12570.000
RAL	Amp Gate Start Near	197.754	usec	3218.600	12570.000
RAL	Amp Gate Start Radial	197.754	usec	3218.600	12570.000
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RAL	FB Thresh Near	4.000	mv	3218.600	12570.000
RAL	FB Thresh Radial	4.000	mv	3218.600	12570.000
RAL	Fluid Travel Time	200.000	usec/ft	3218.600	12570.000

## DEPTH OFFSETS (for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	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	-14.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : MIXED

Plotted by : PlotMgr, v5.4.5D4

Company : Exxon Mobil Production Company

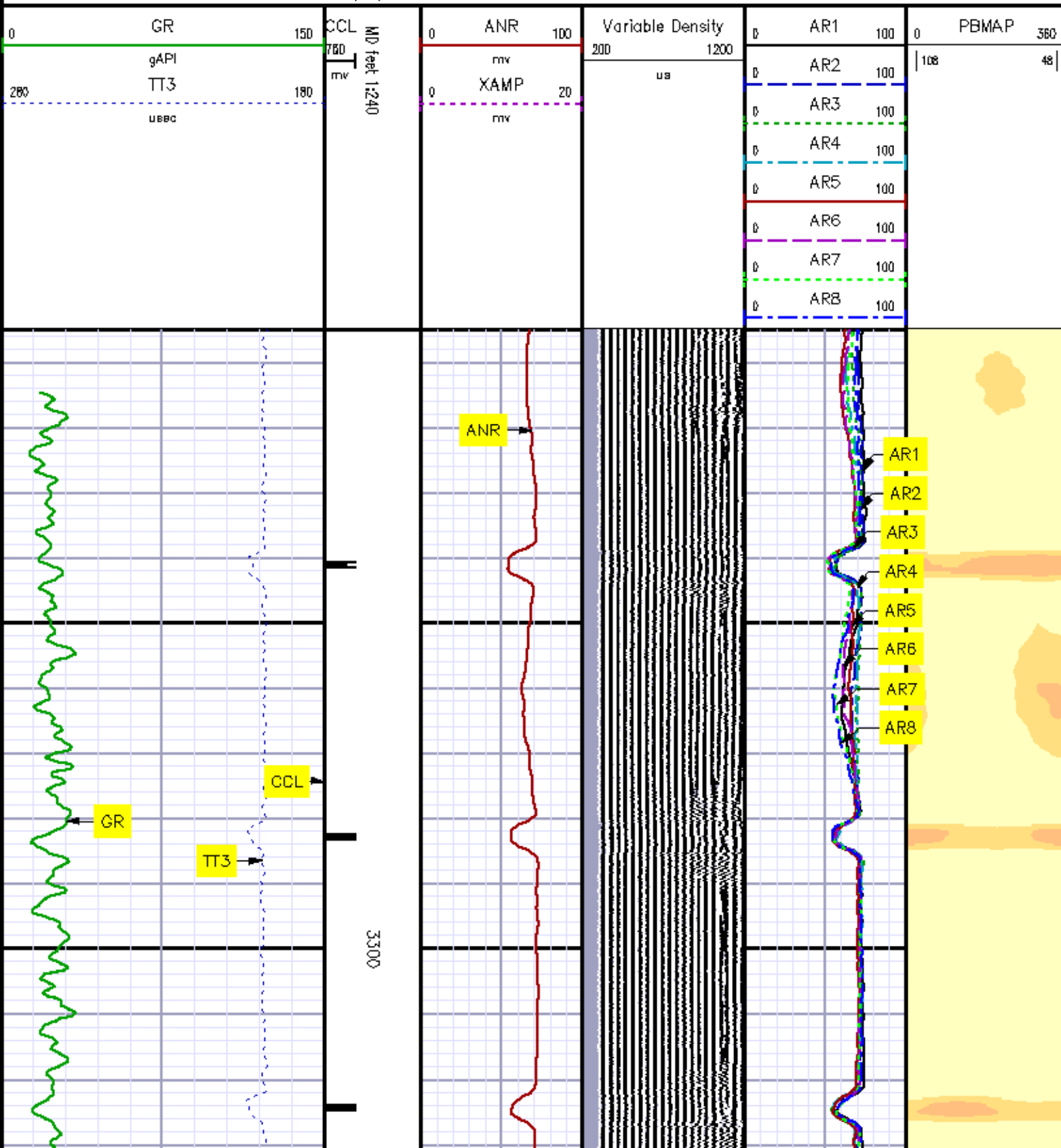
Well : PCU 297-11-C6

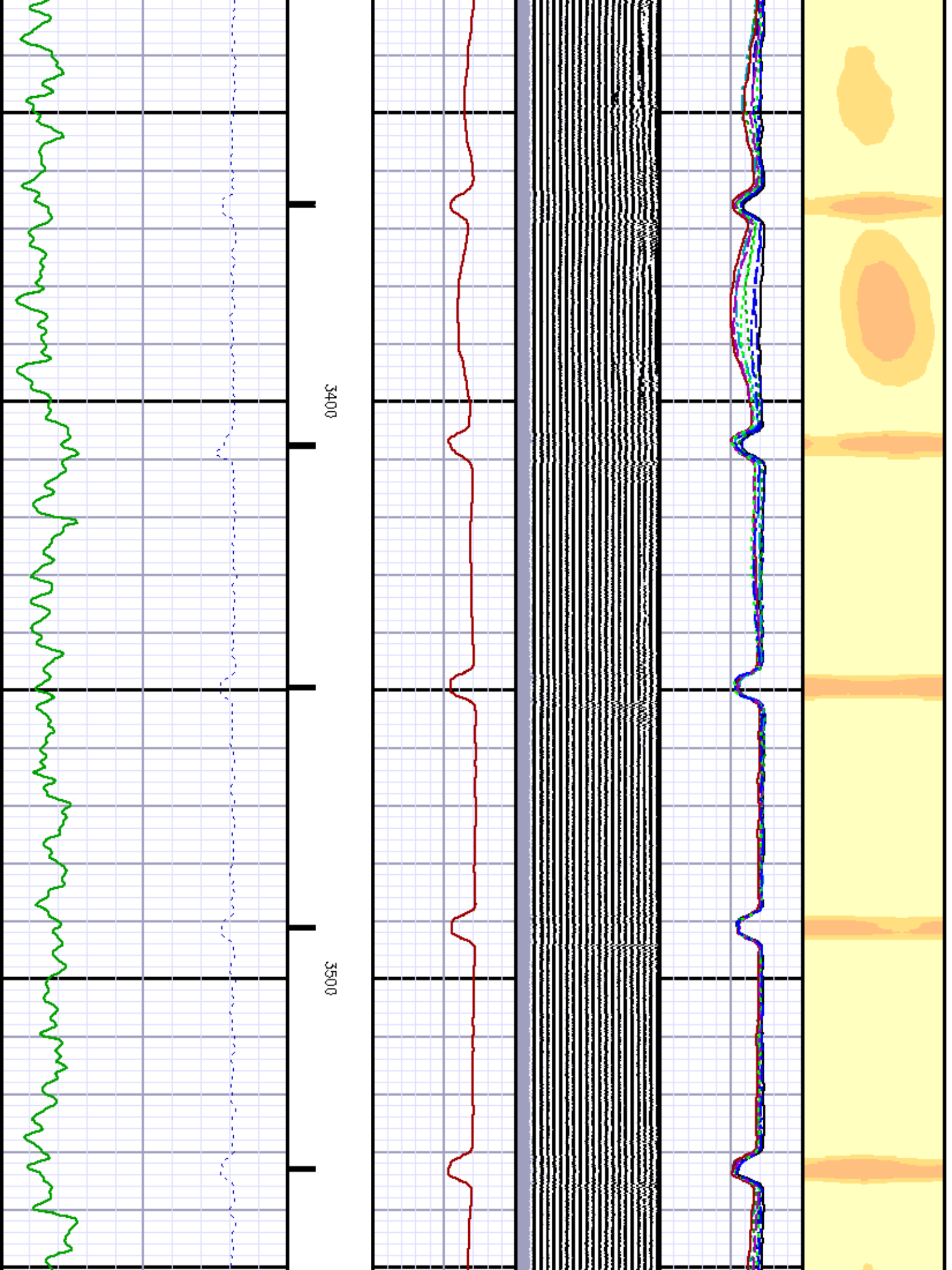
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Mode : PlotMgr 5.4.5D4

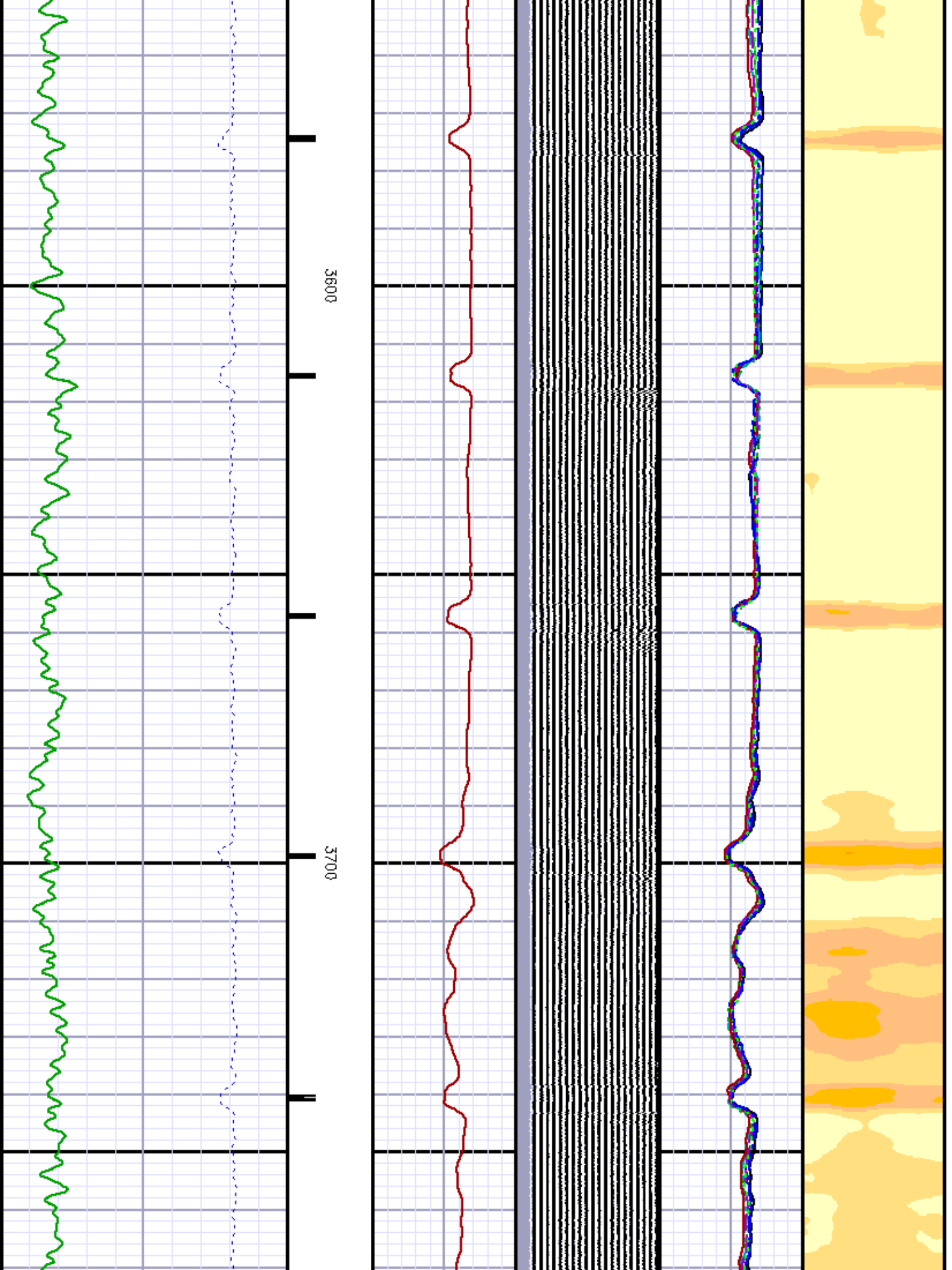
Interval : 3205.00 - 12550.00 feet UP

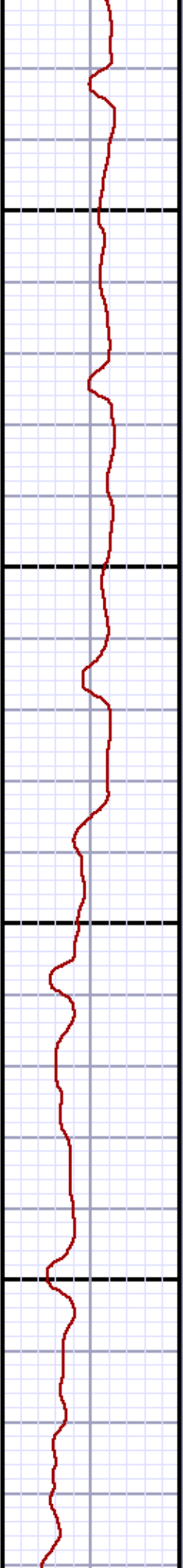
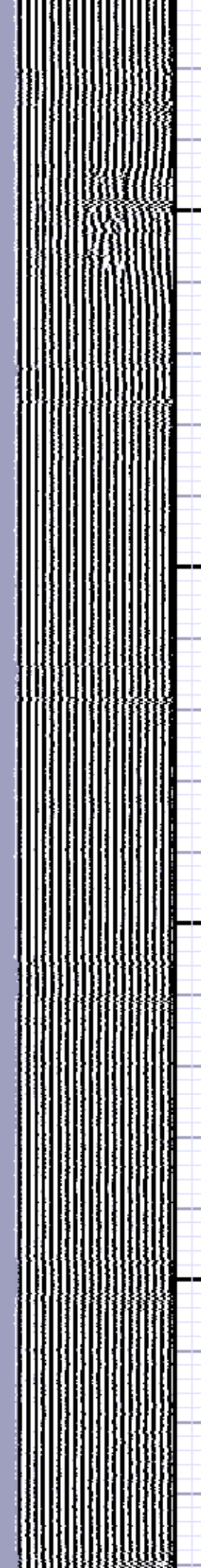
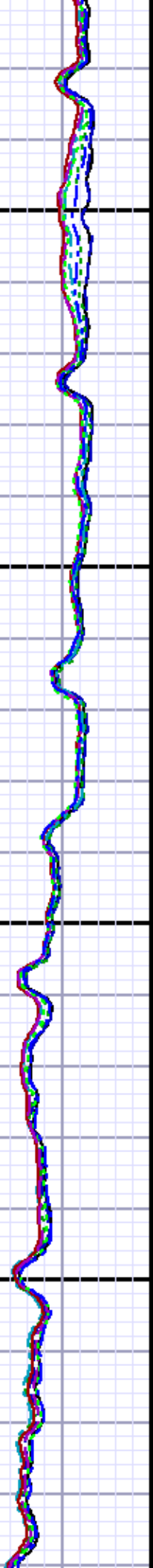
Created : 7/17/2010 11:04:13 AM





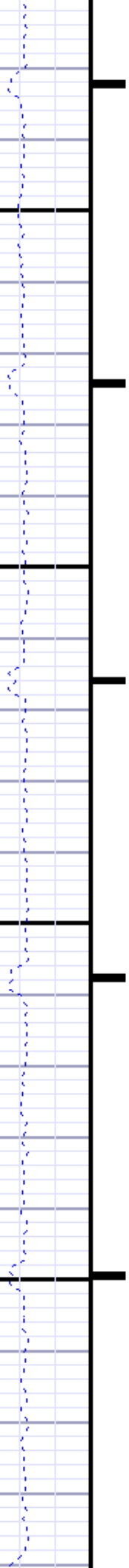


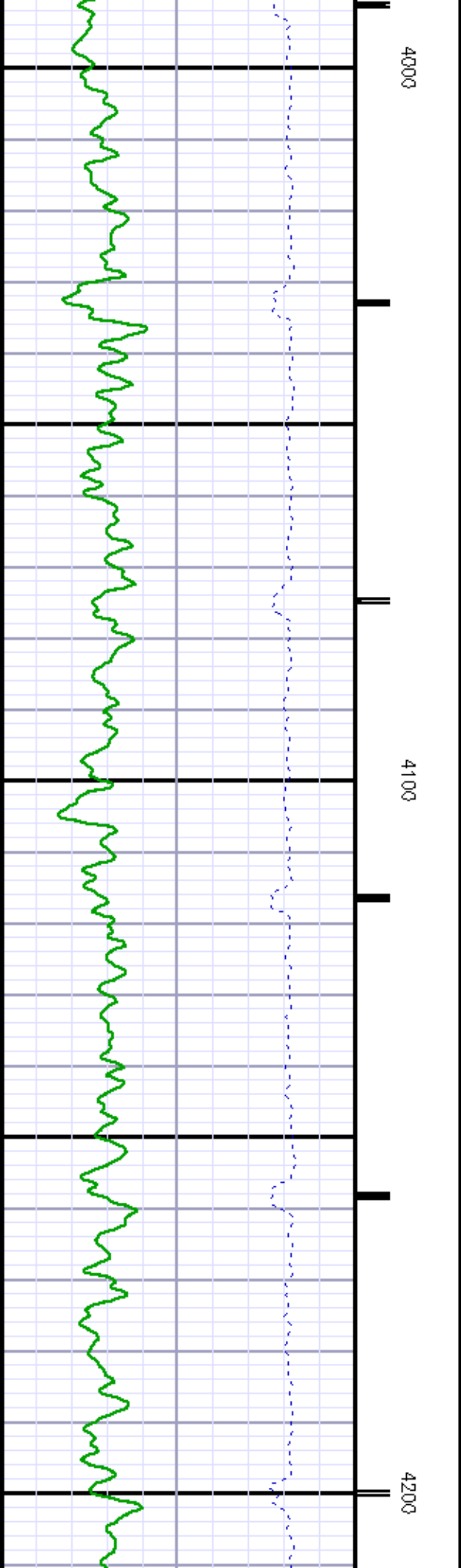
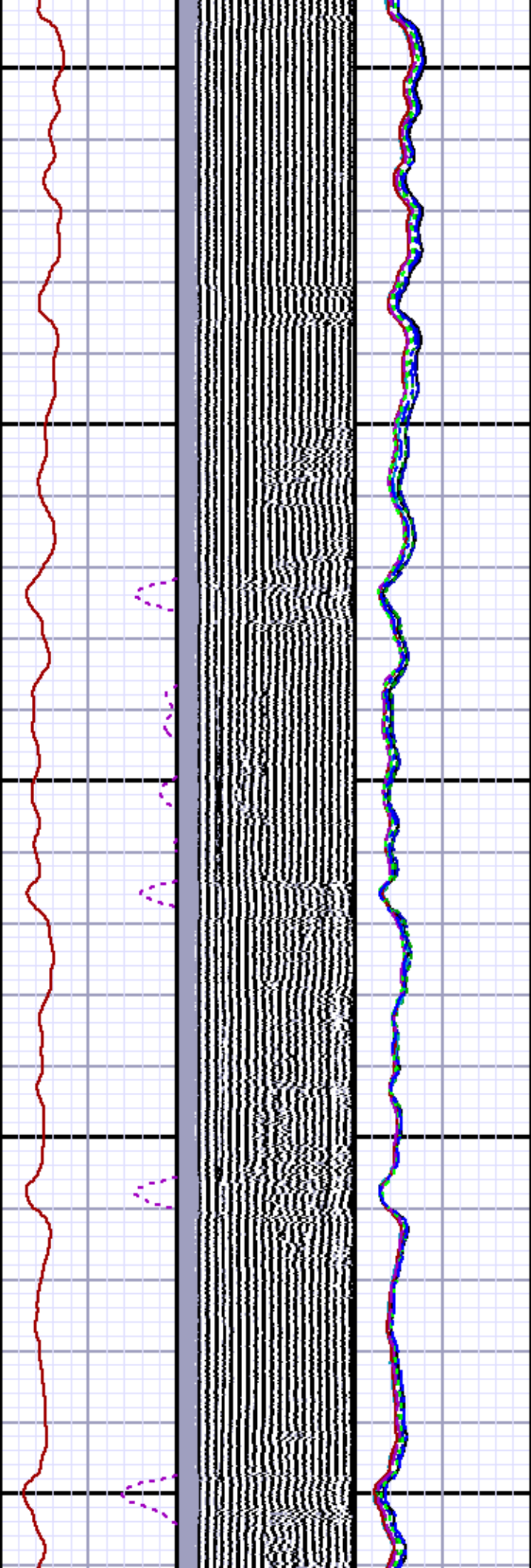




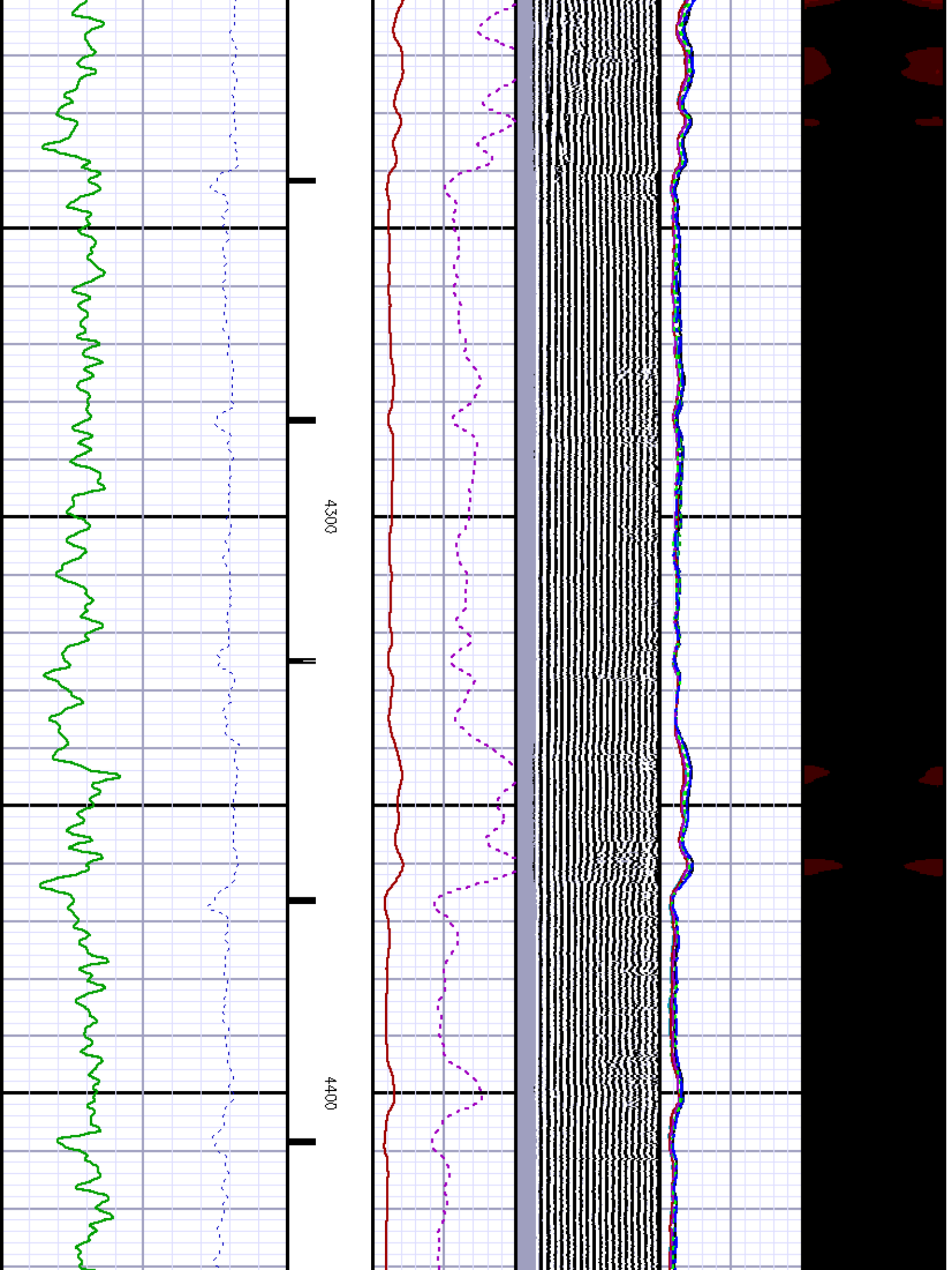
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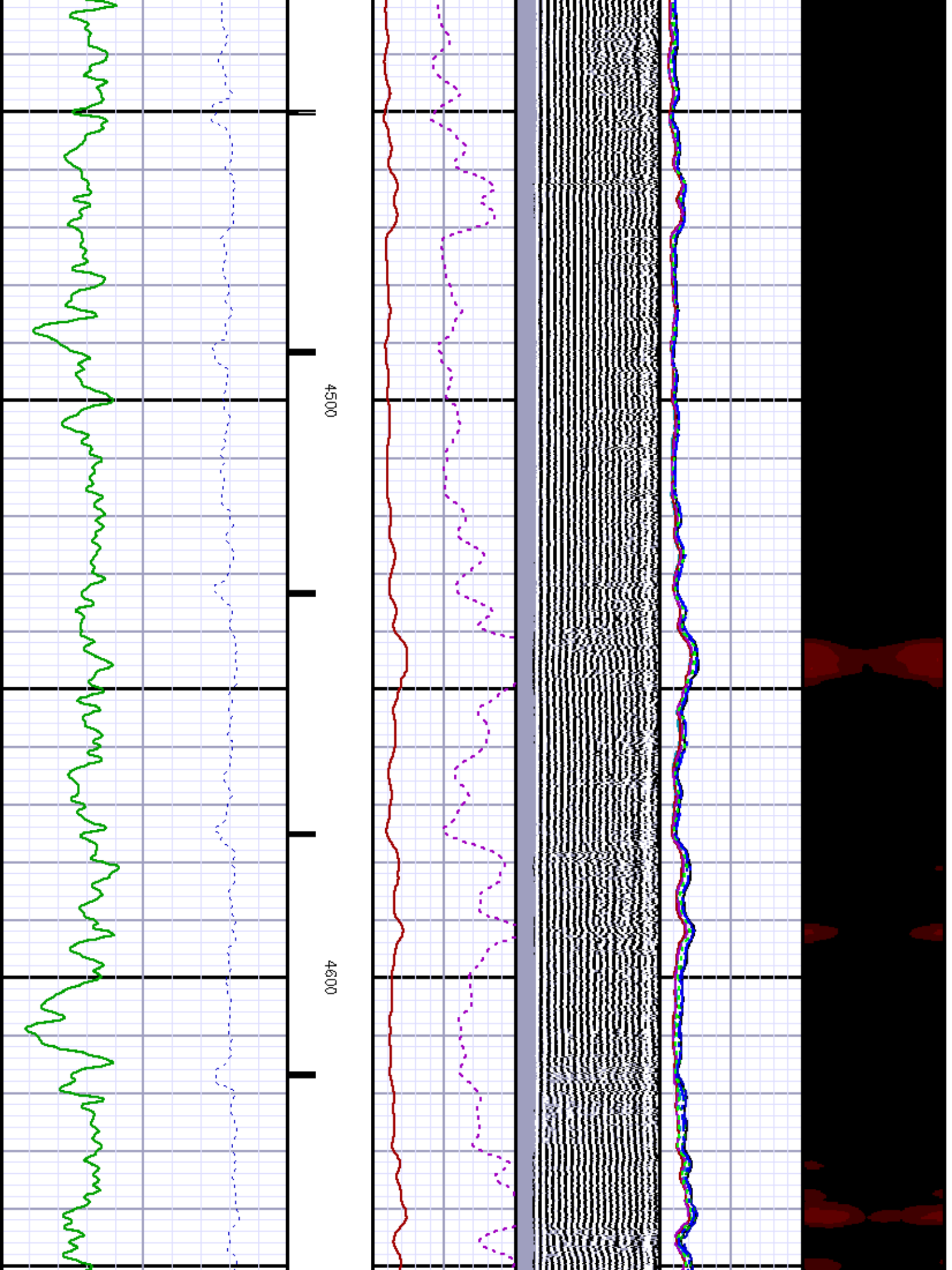
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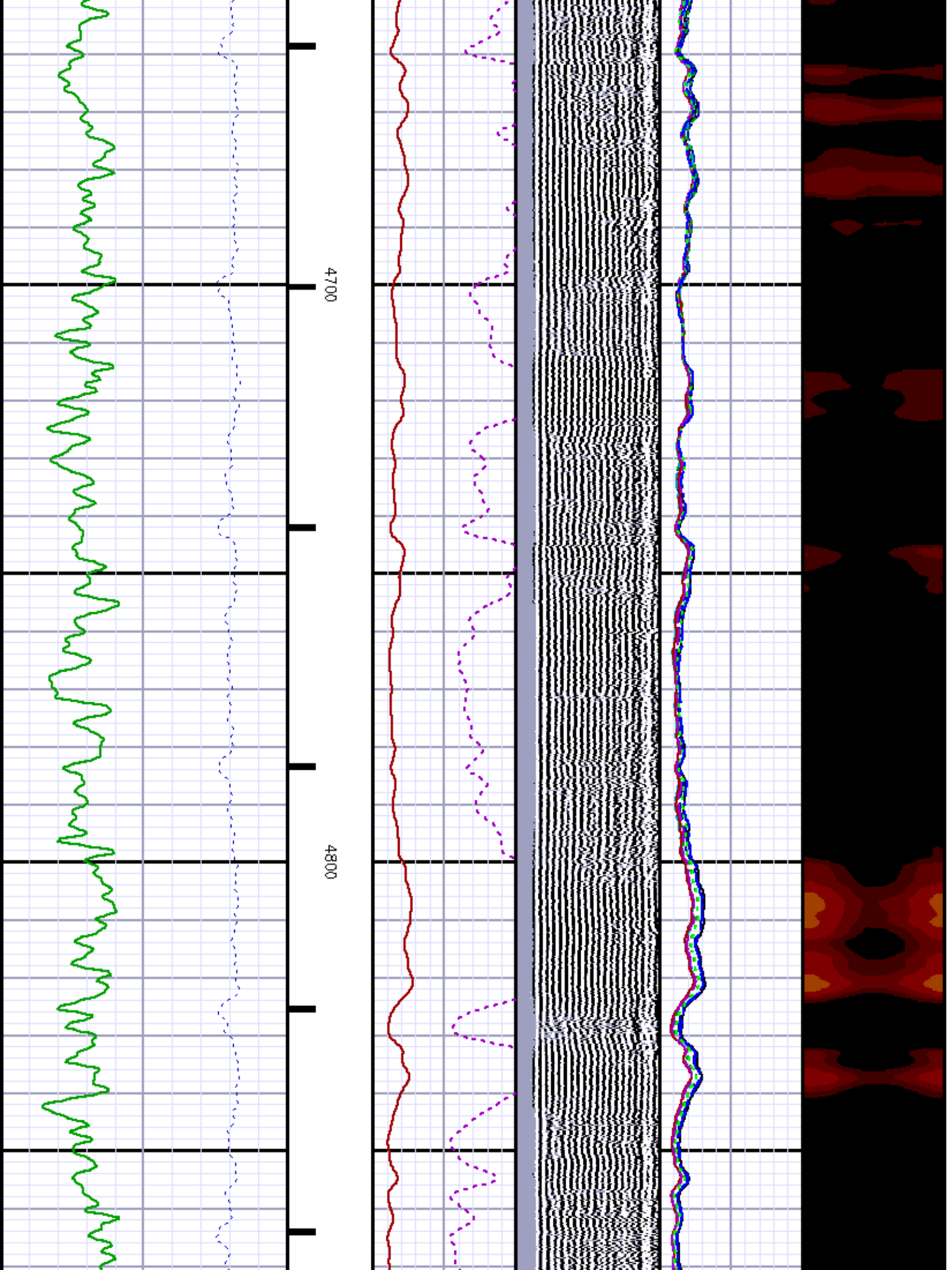




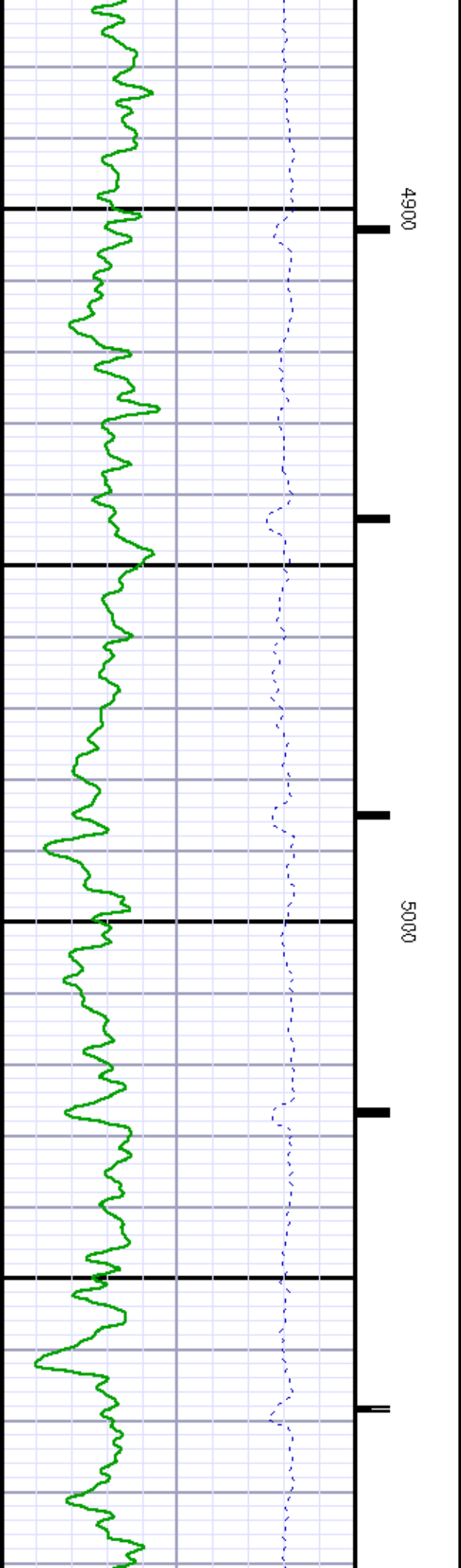
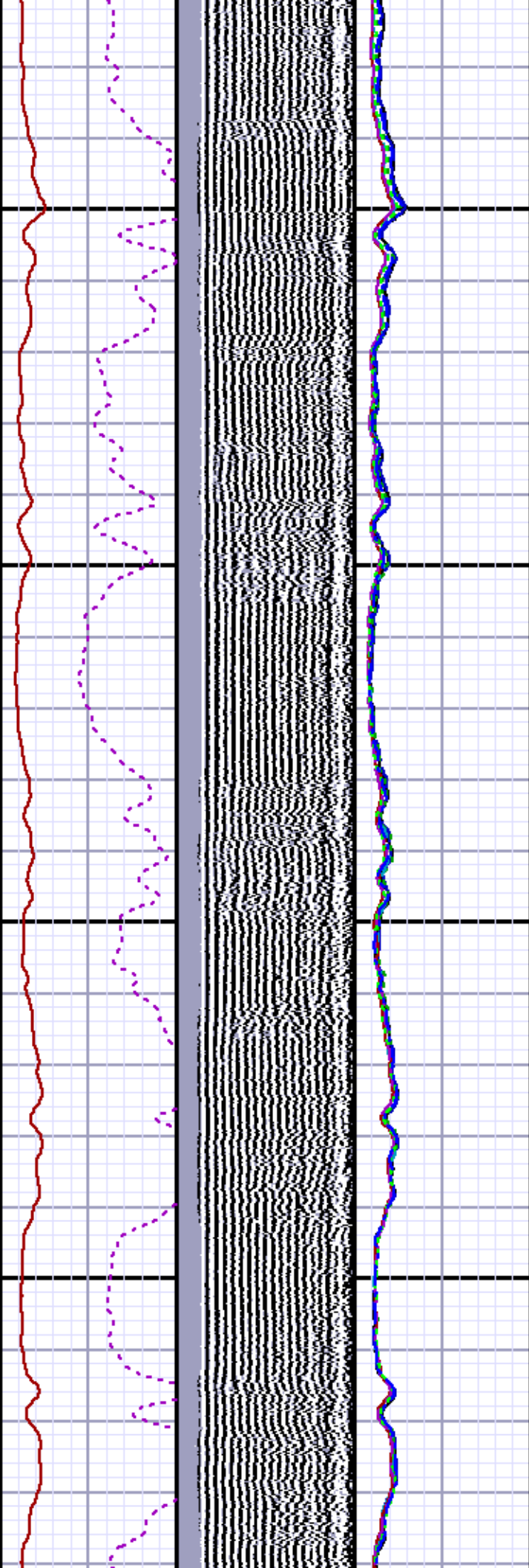
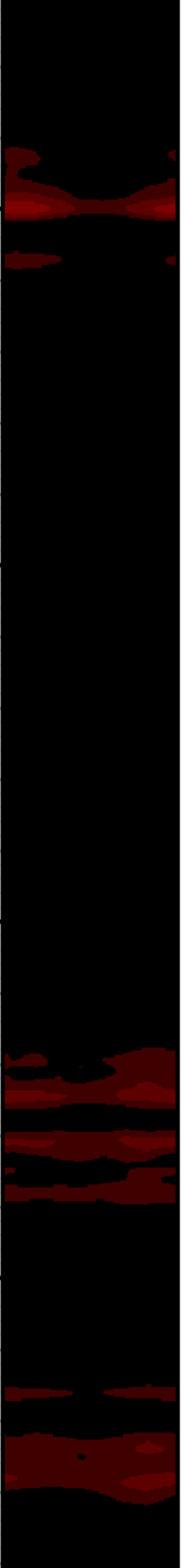


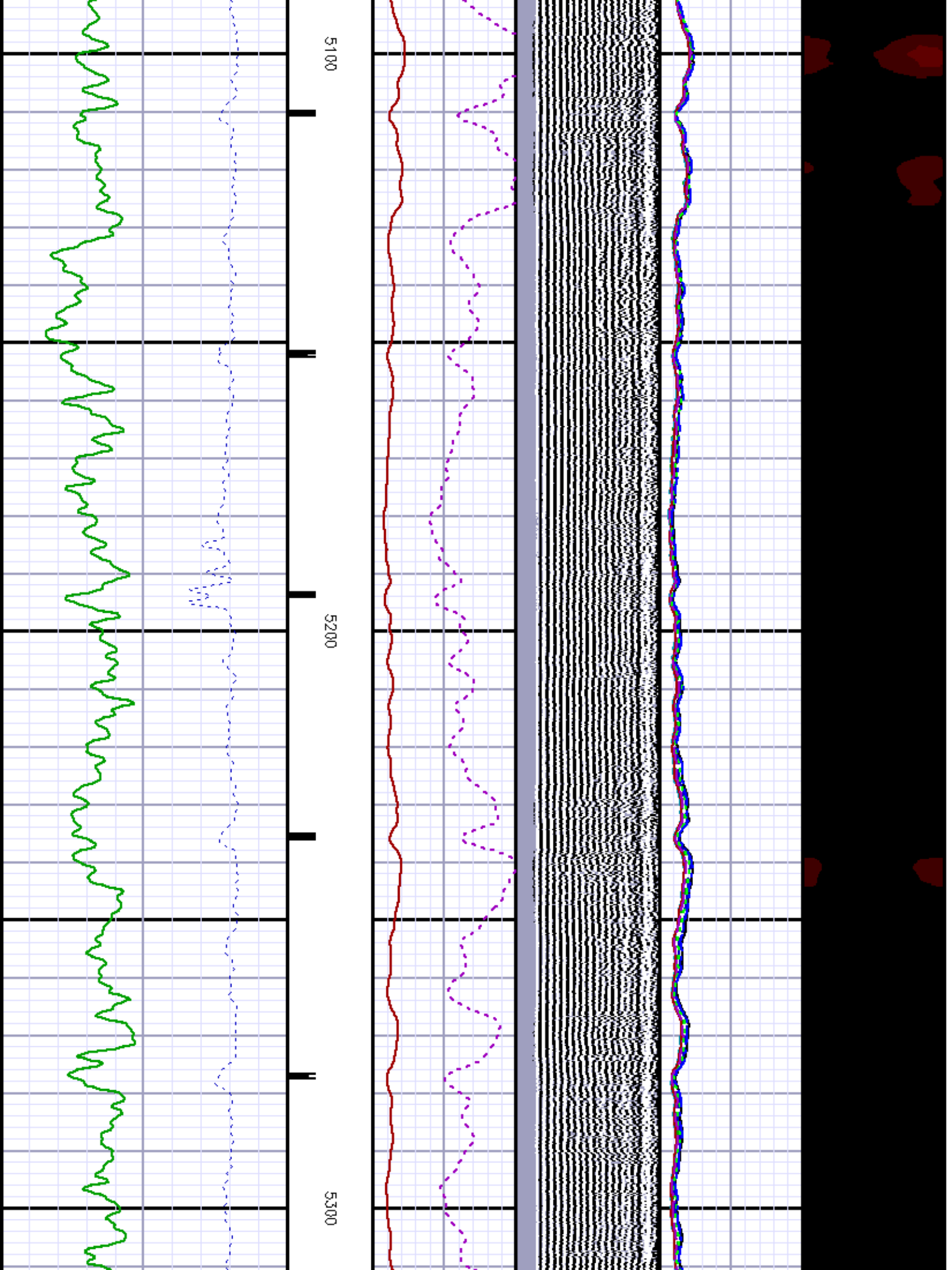


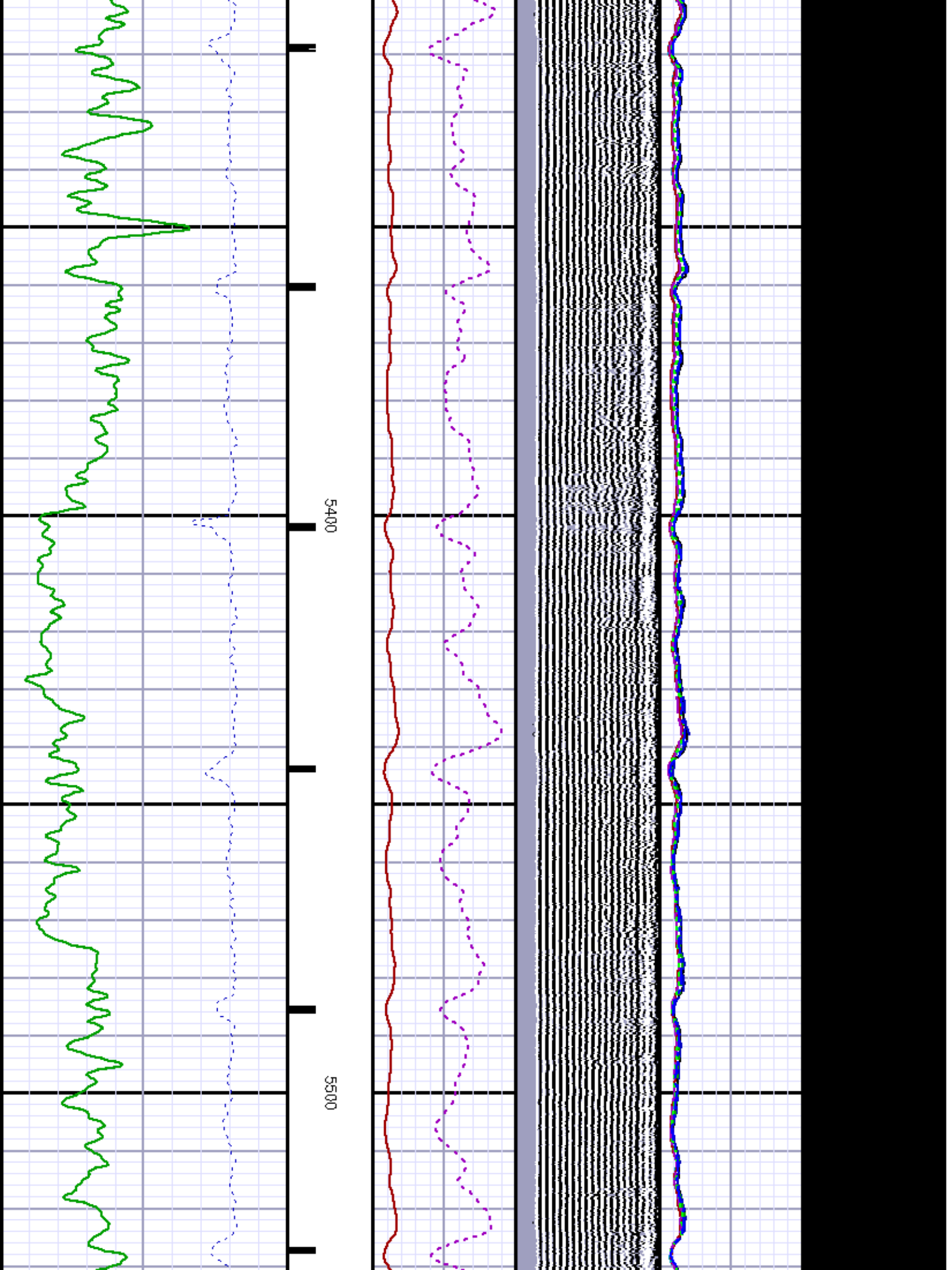




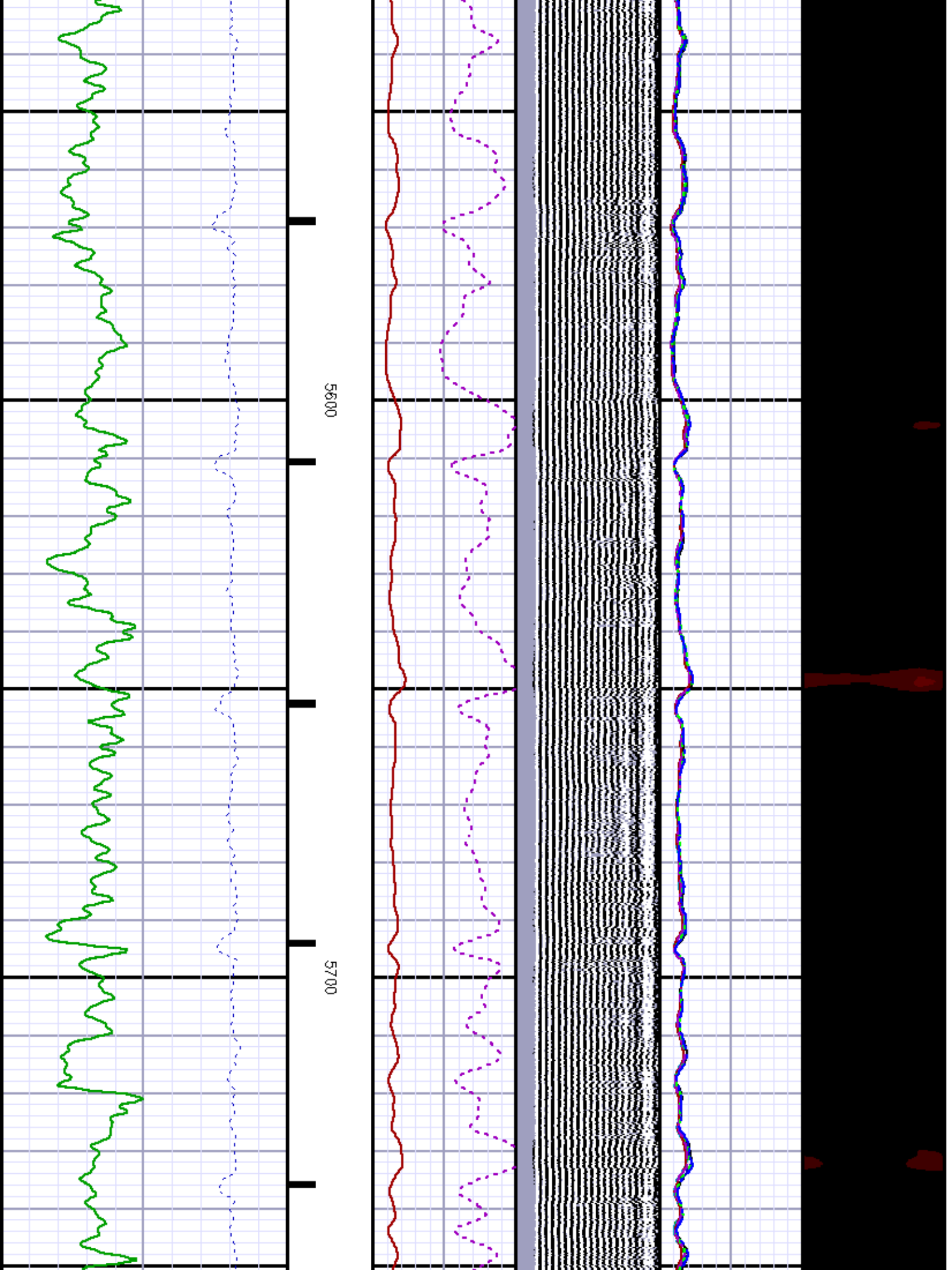


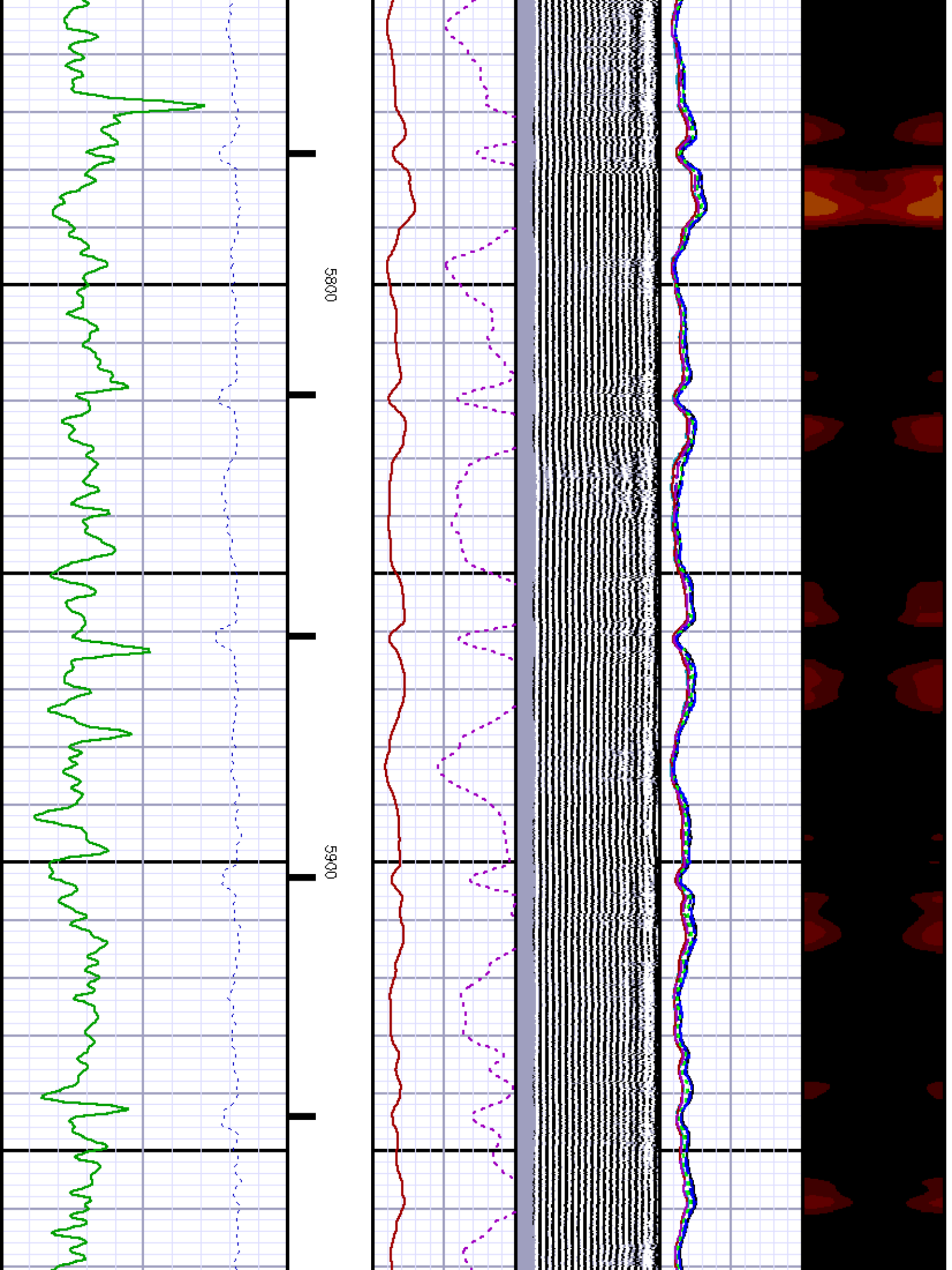


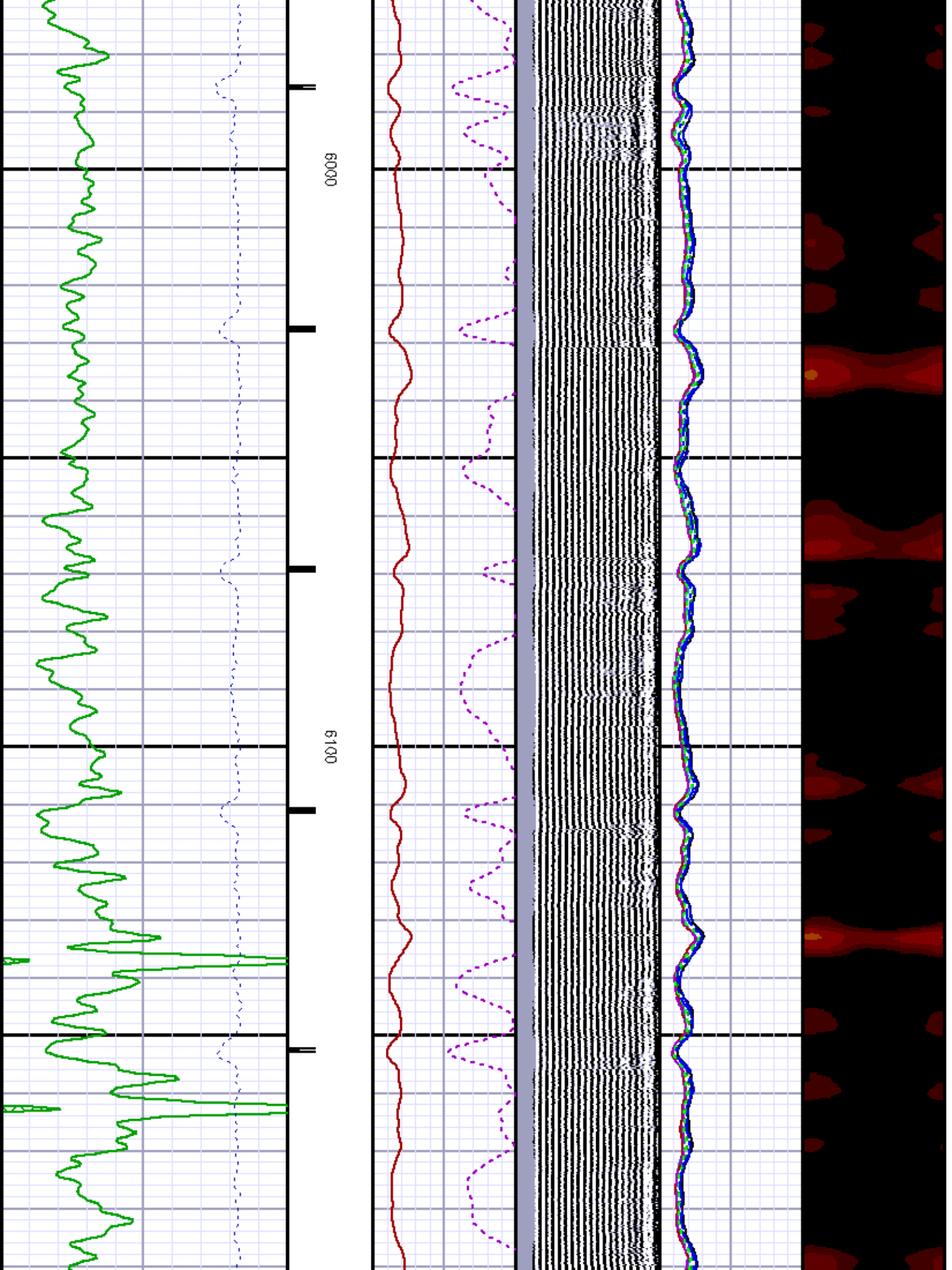




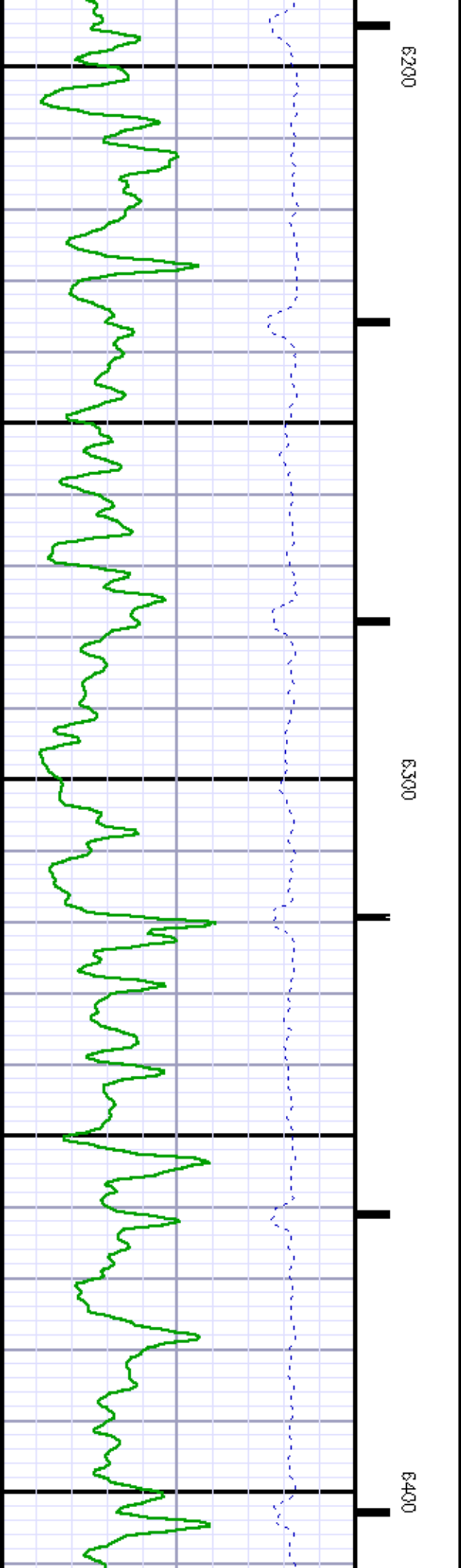
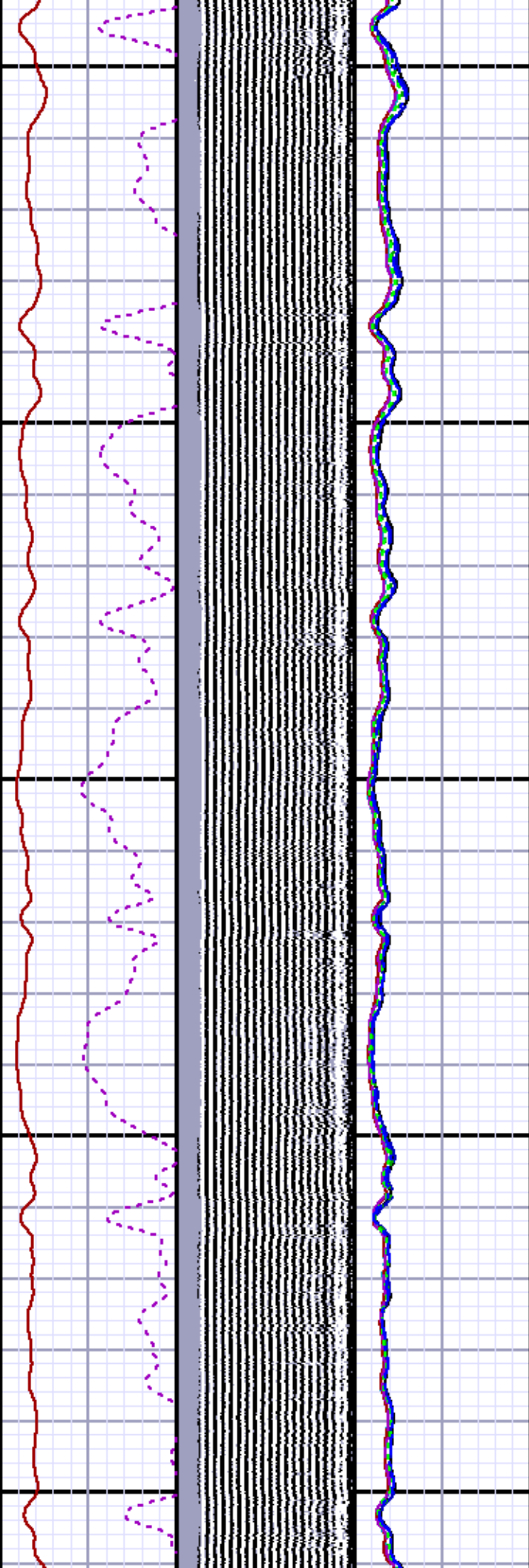
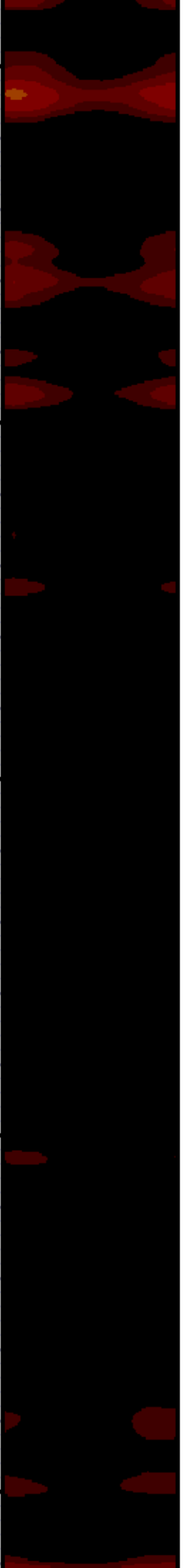


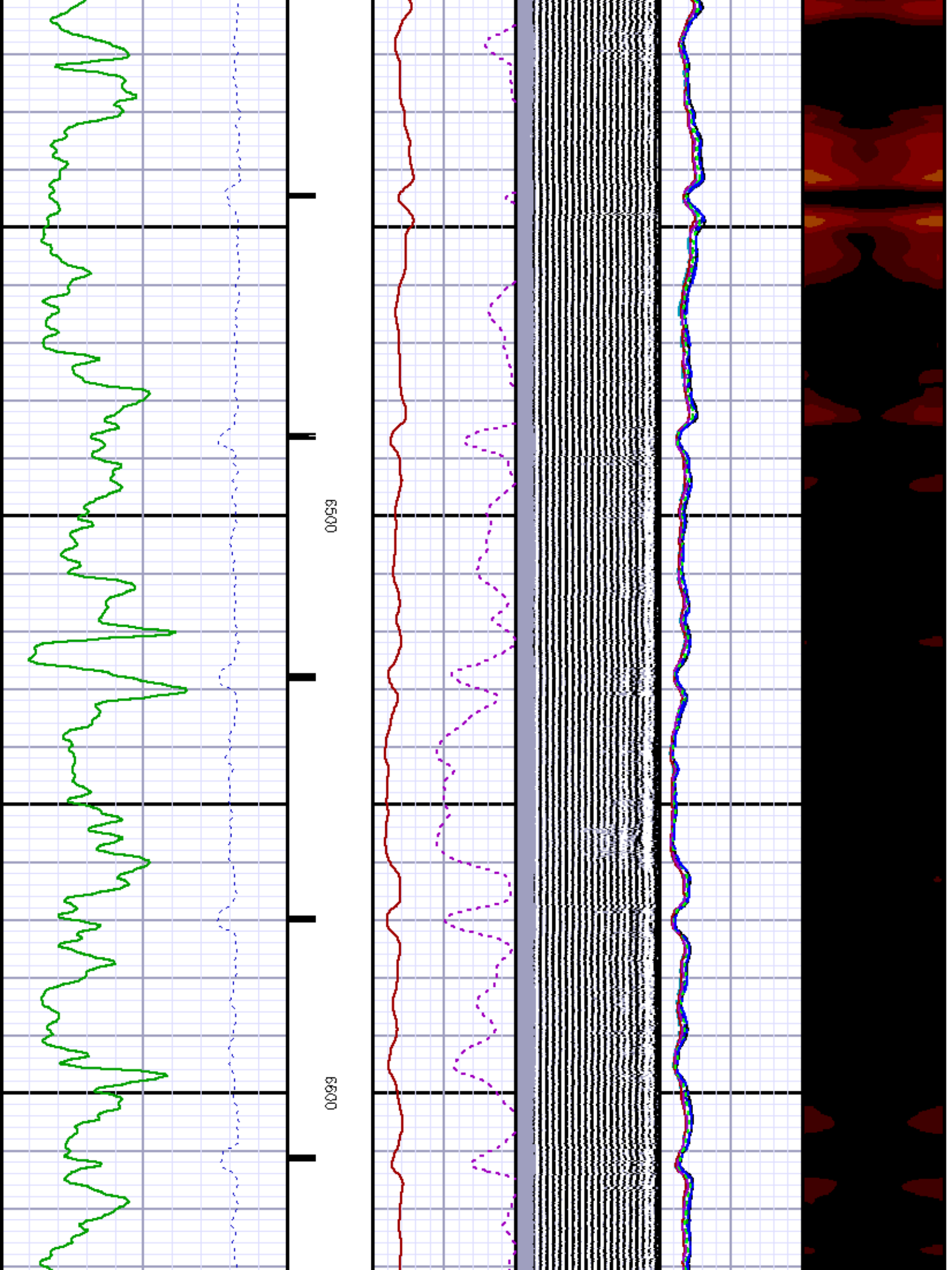


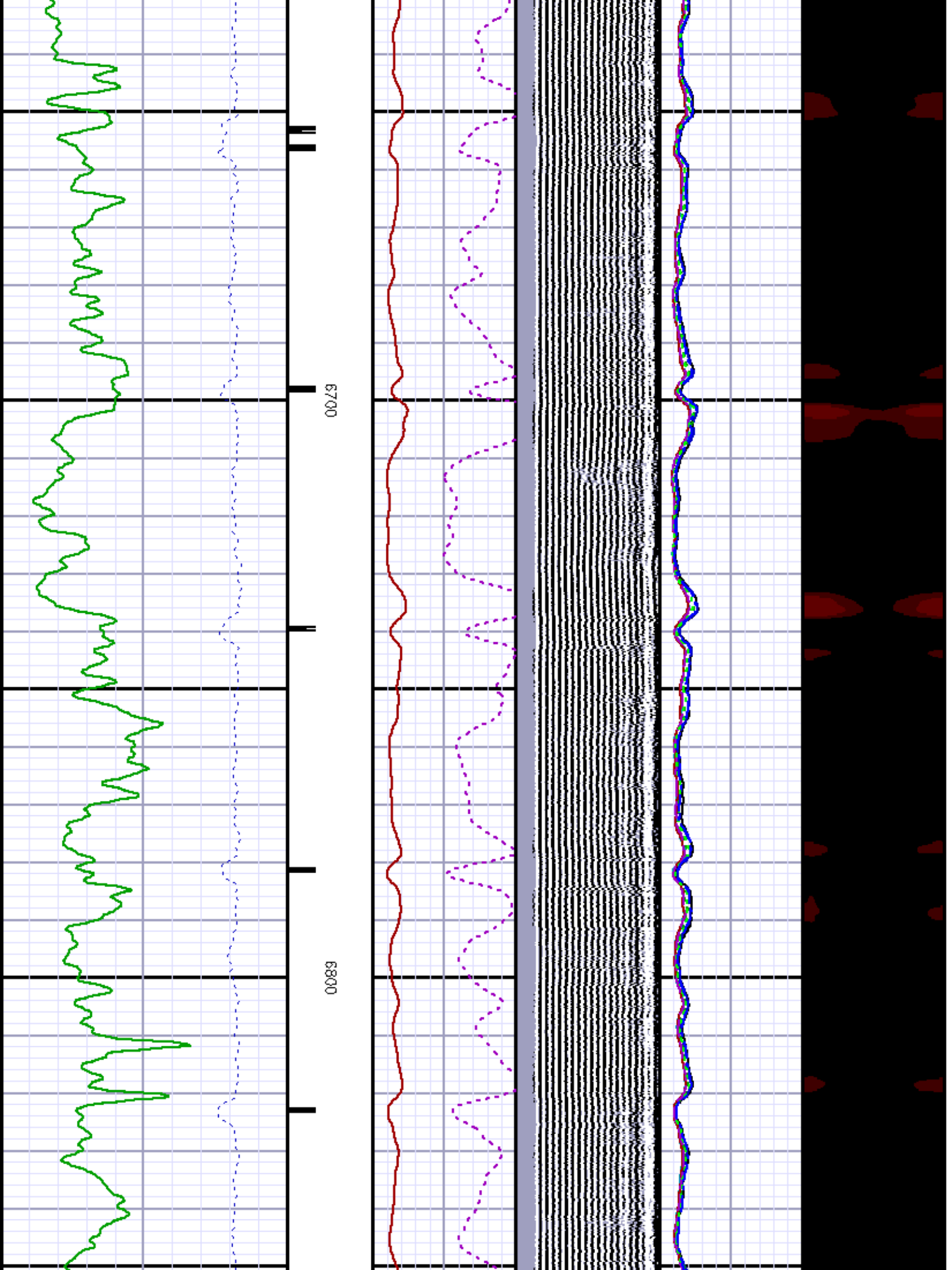


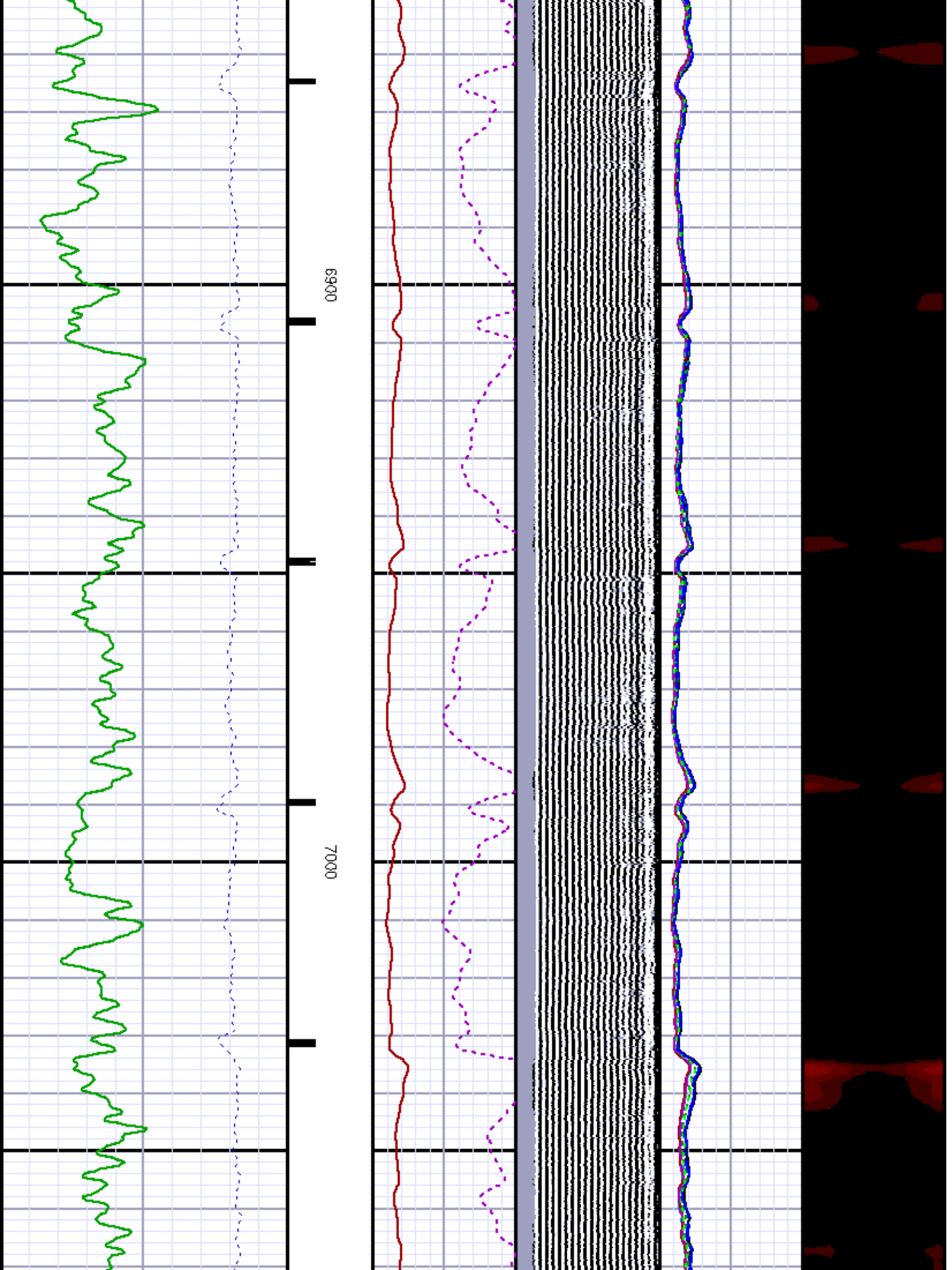




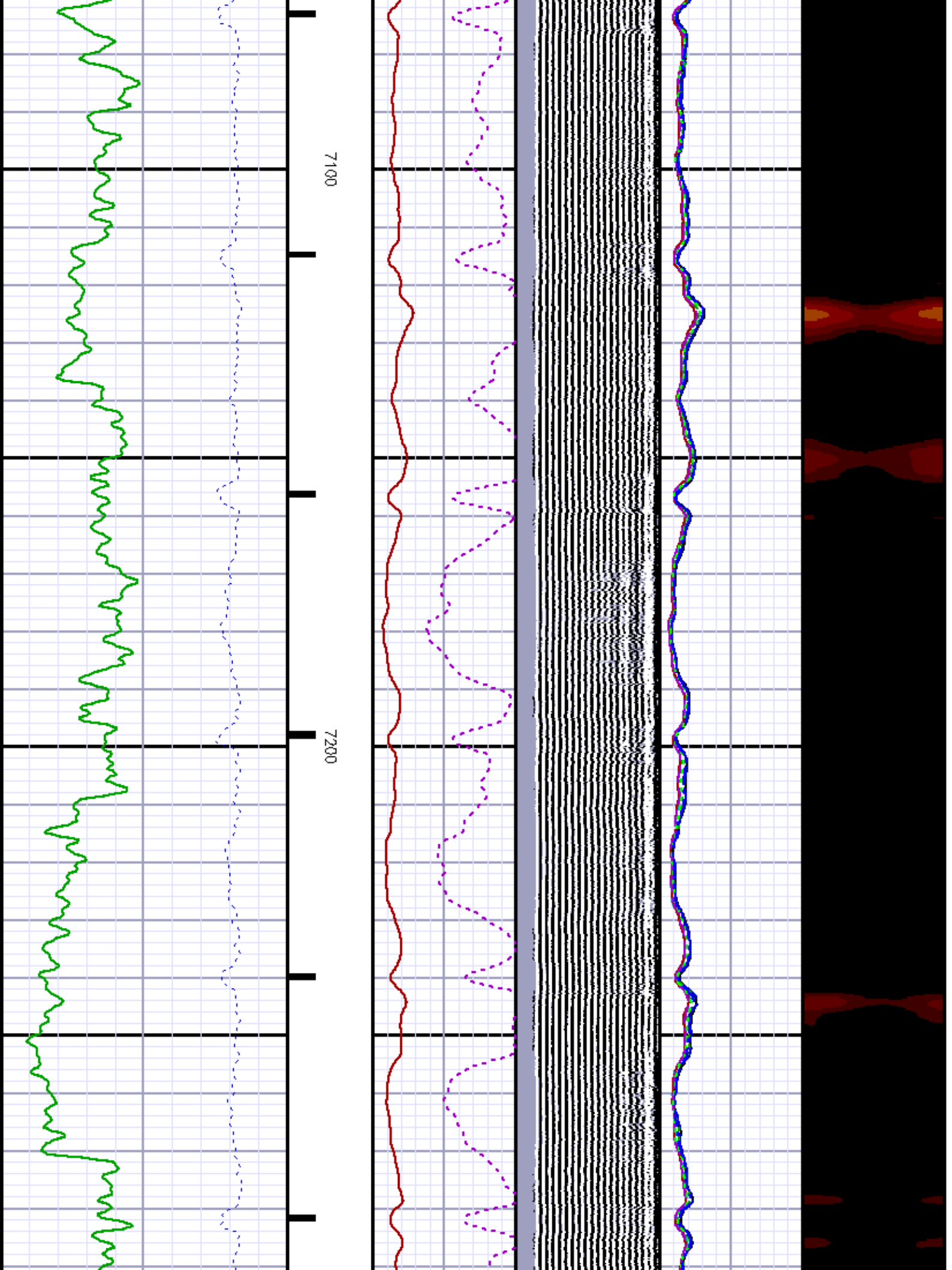


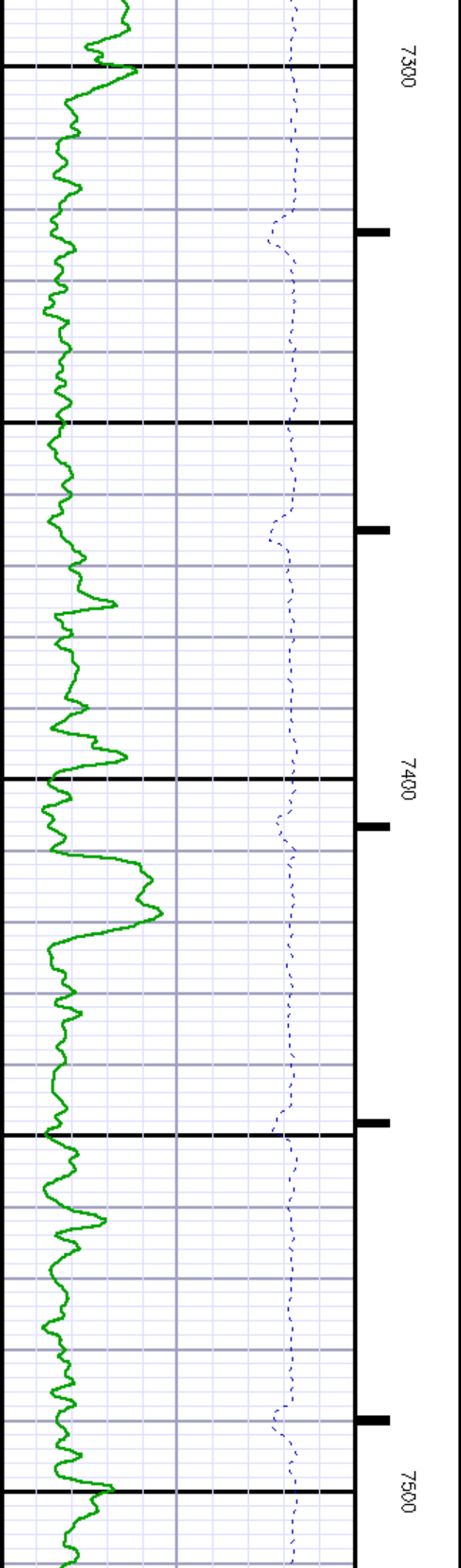
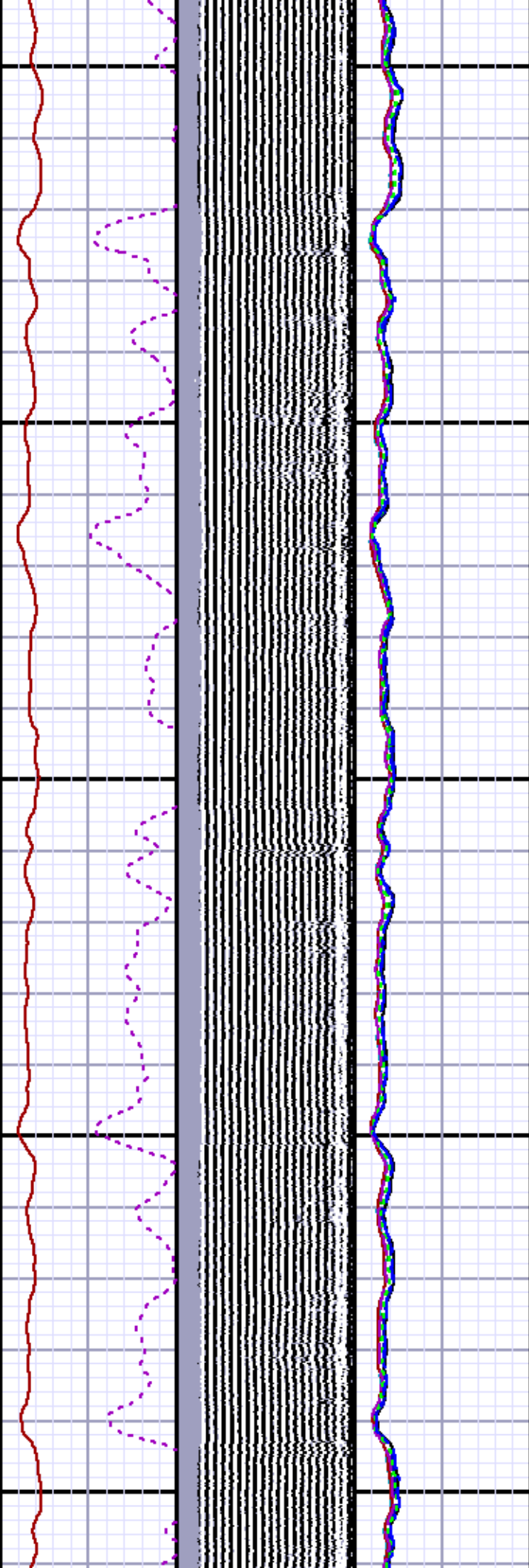


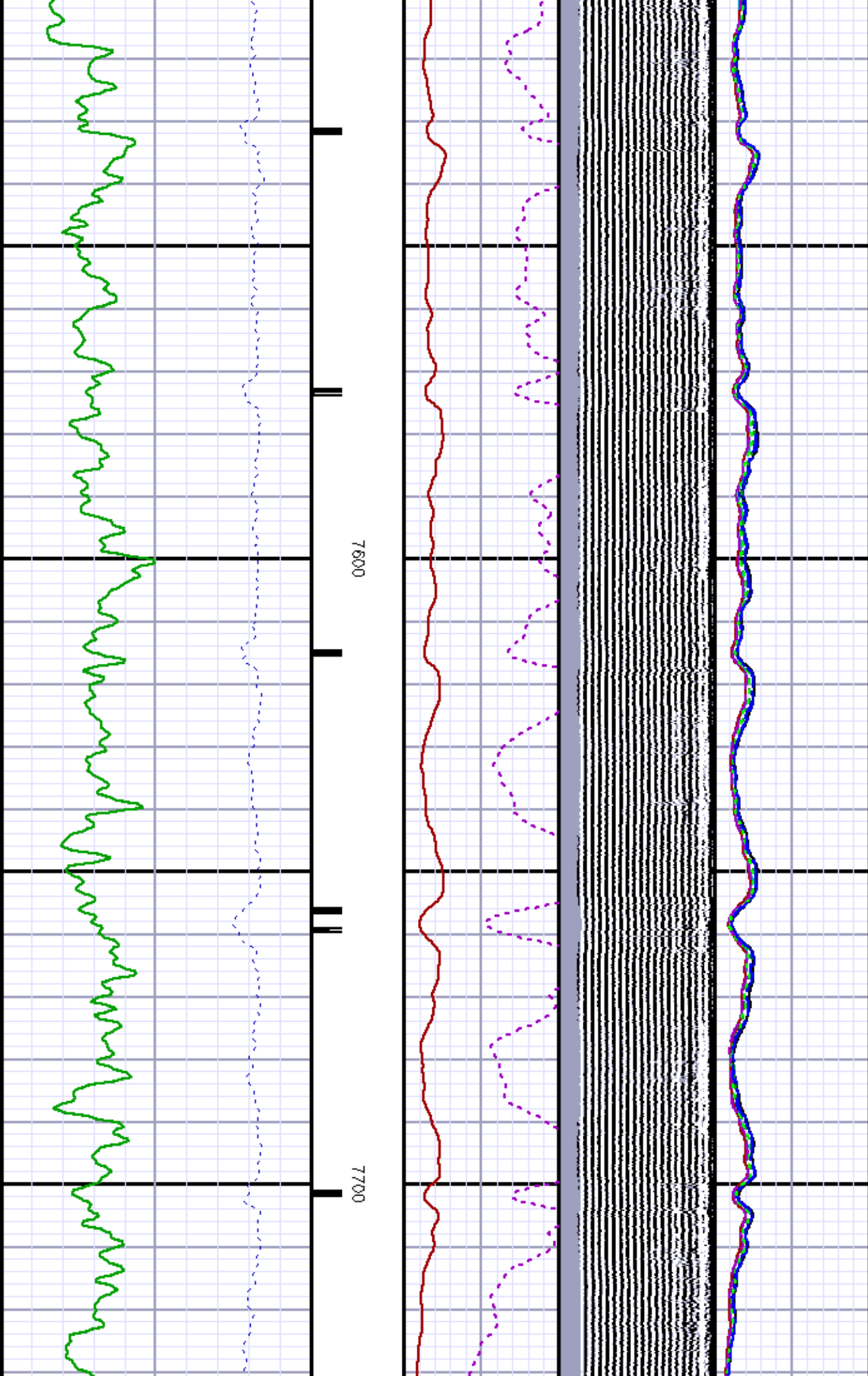


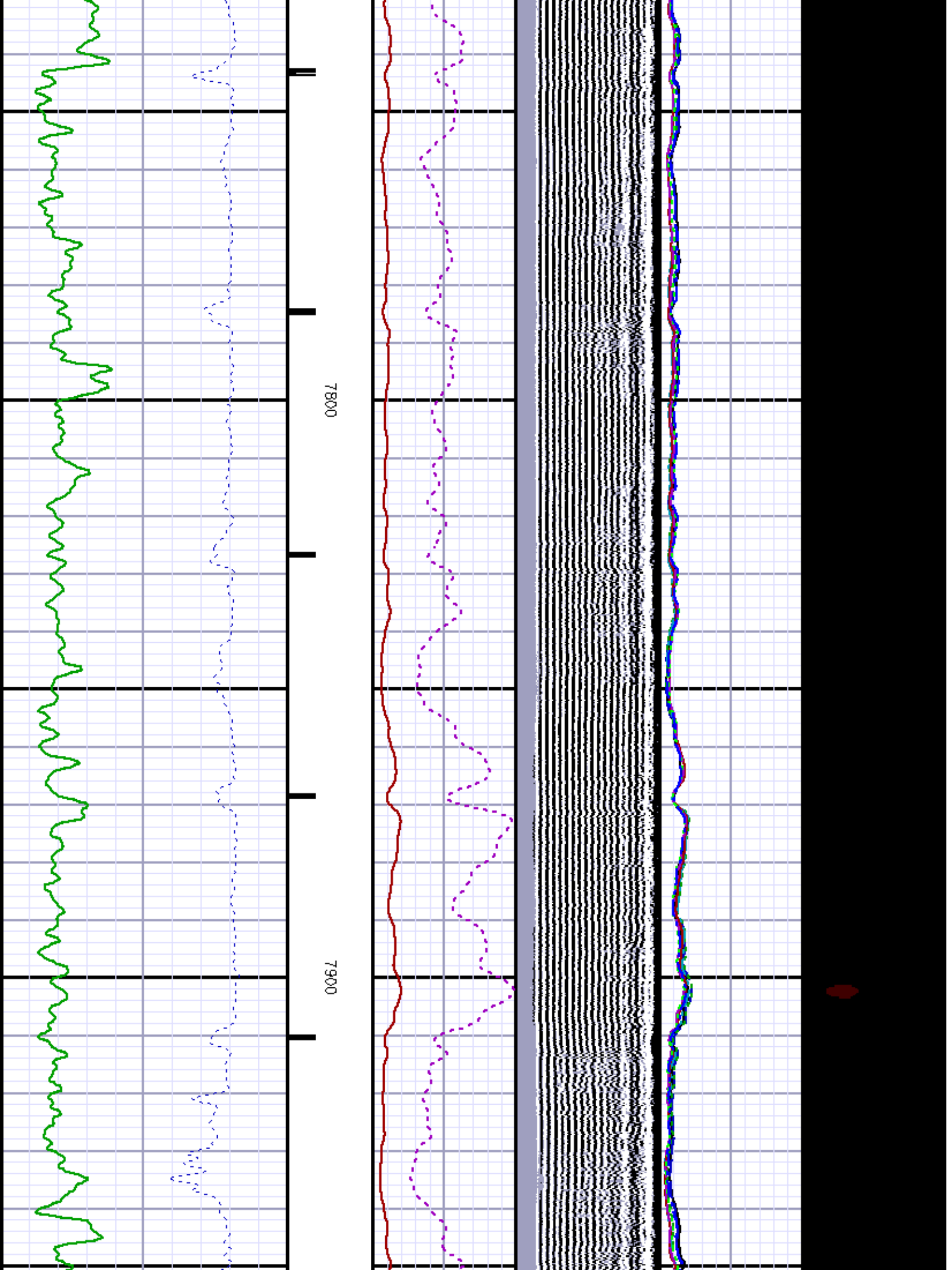




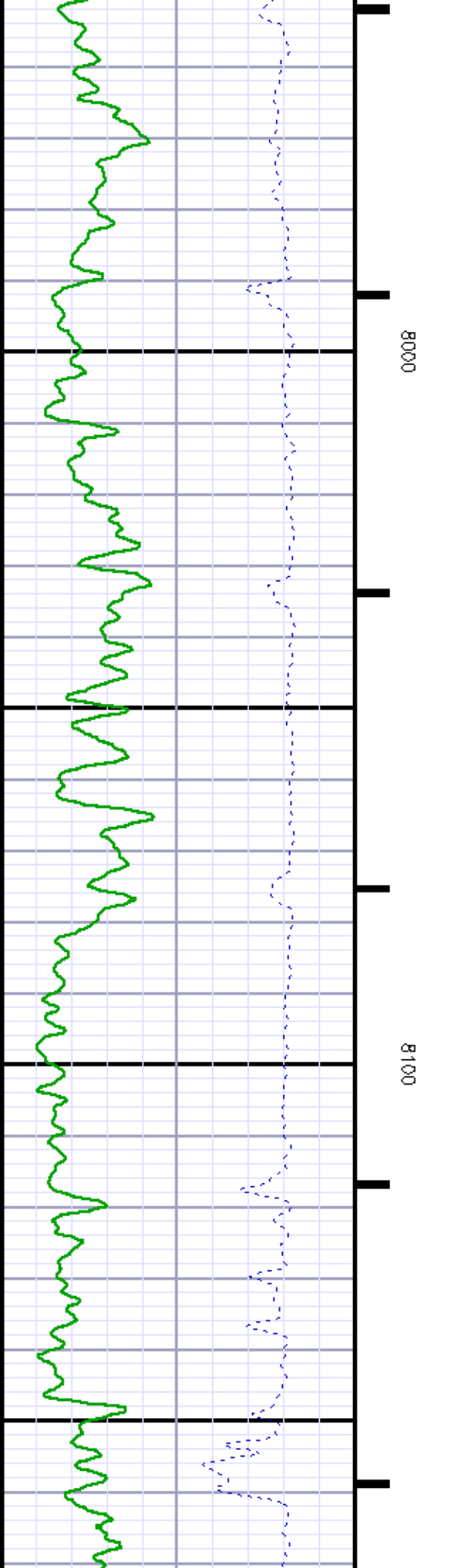
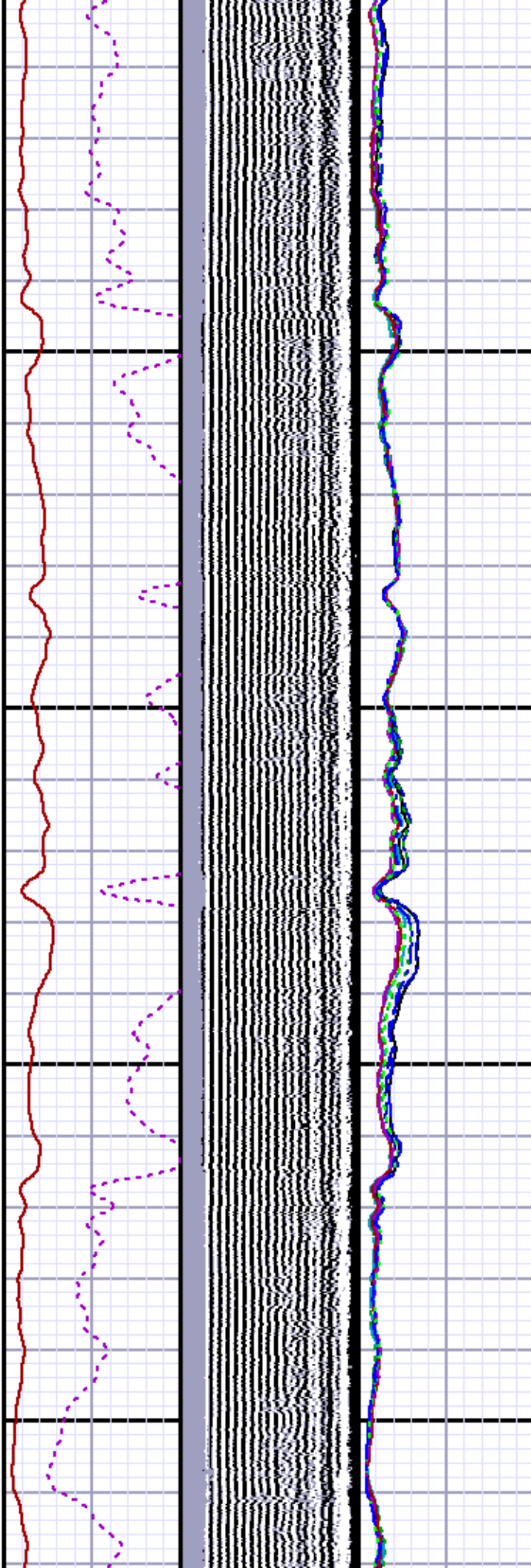


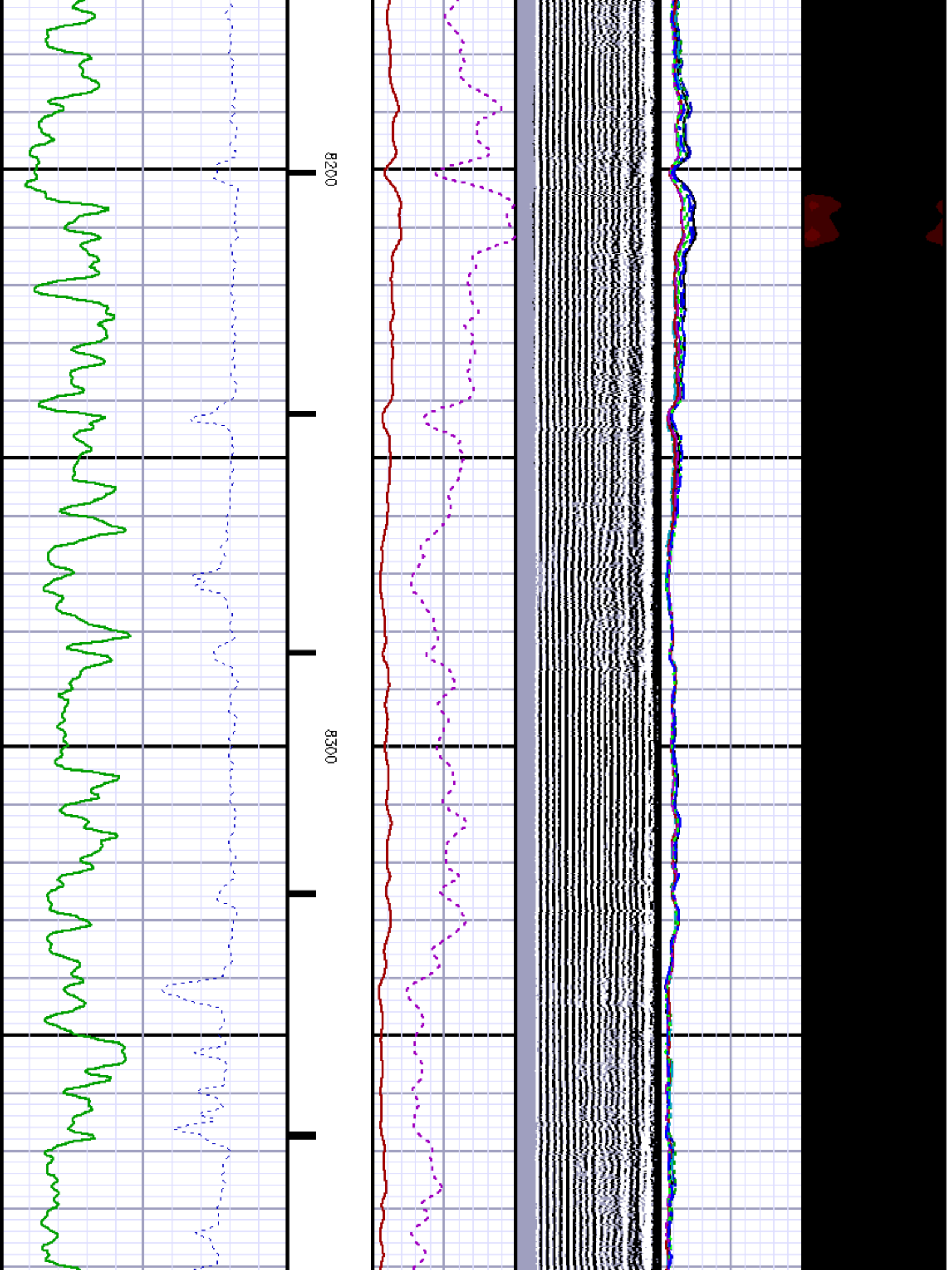


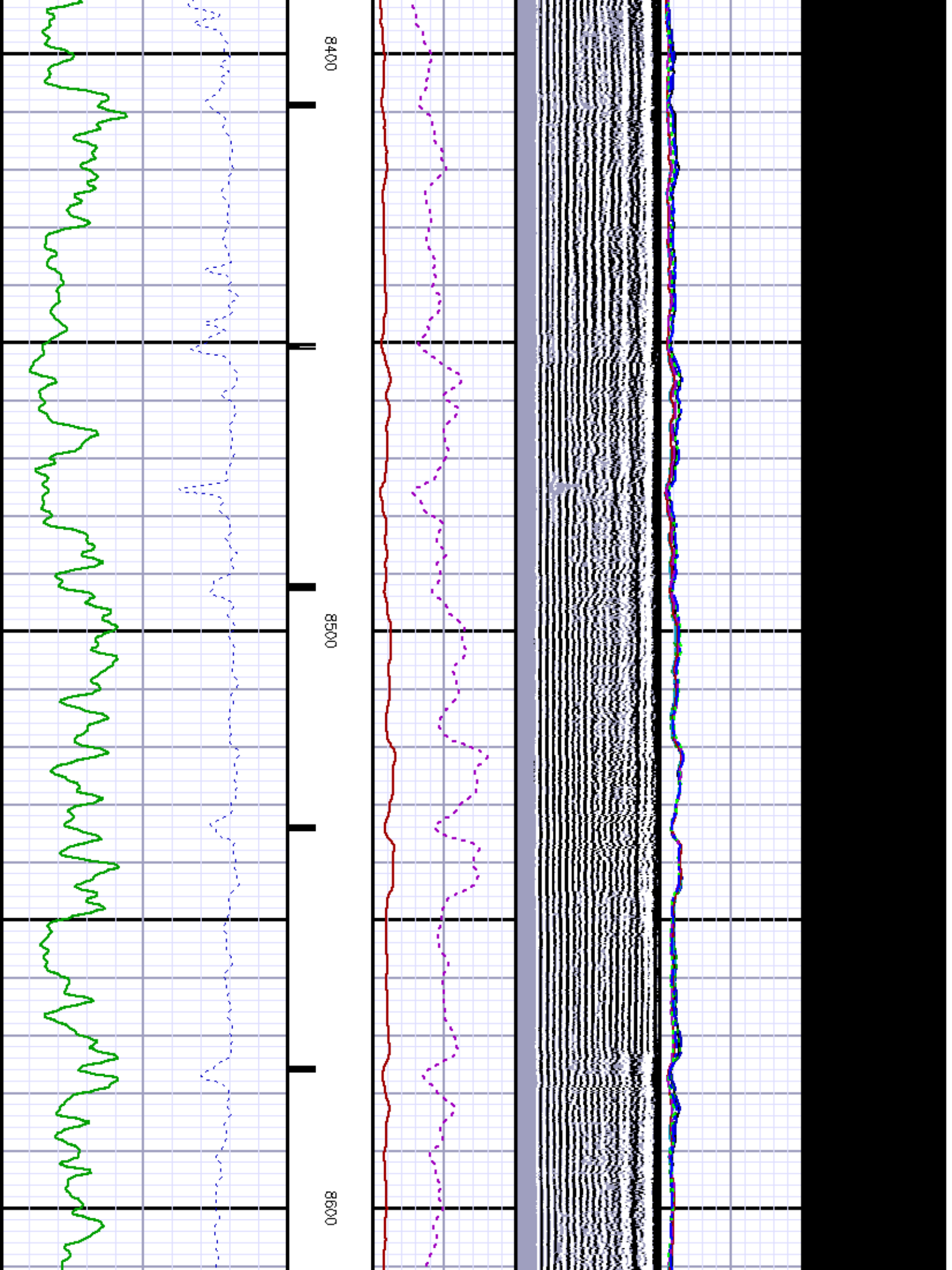


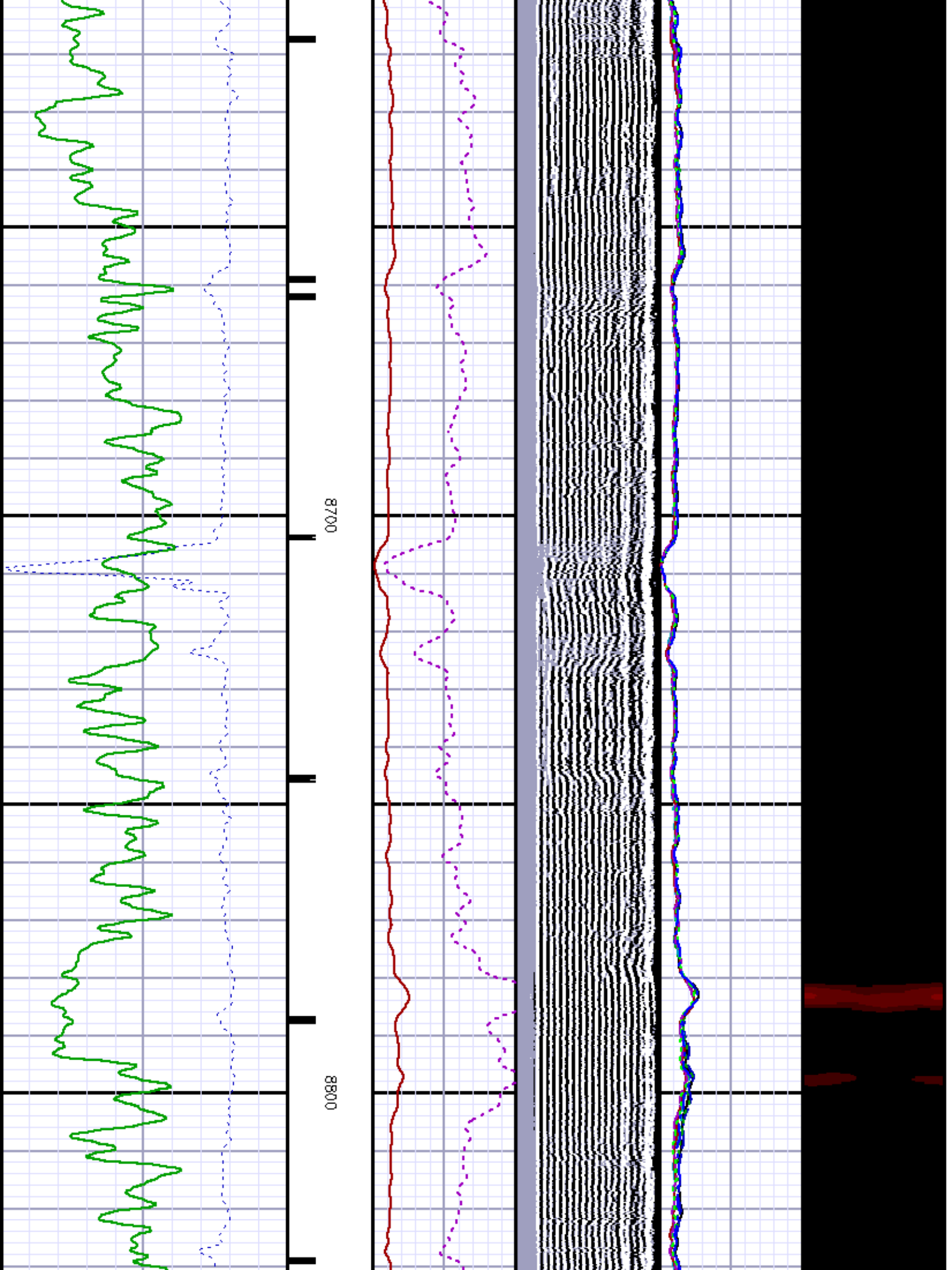




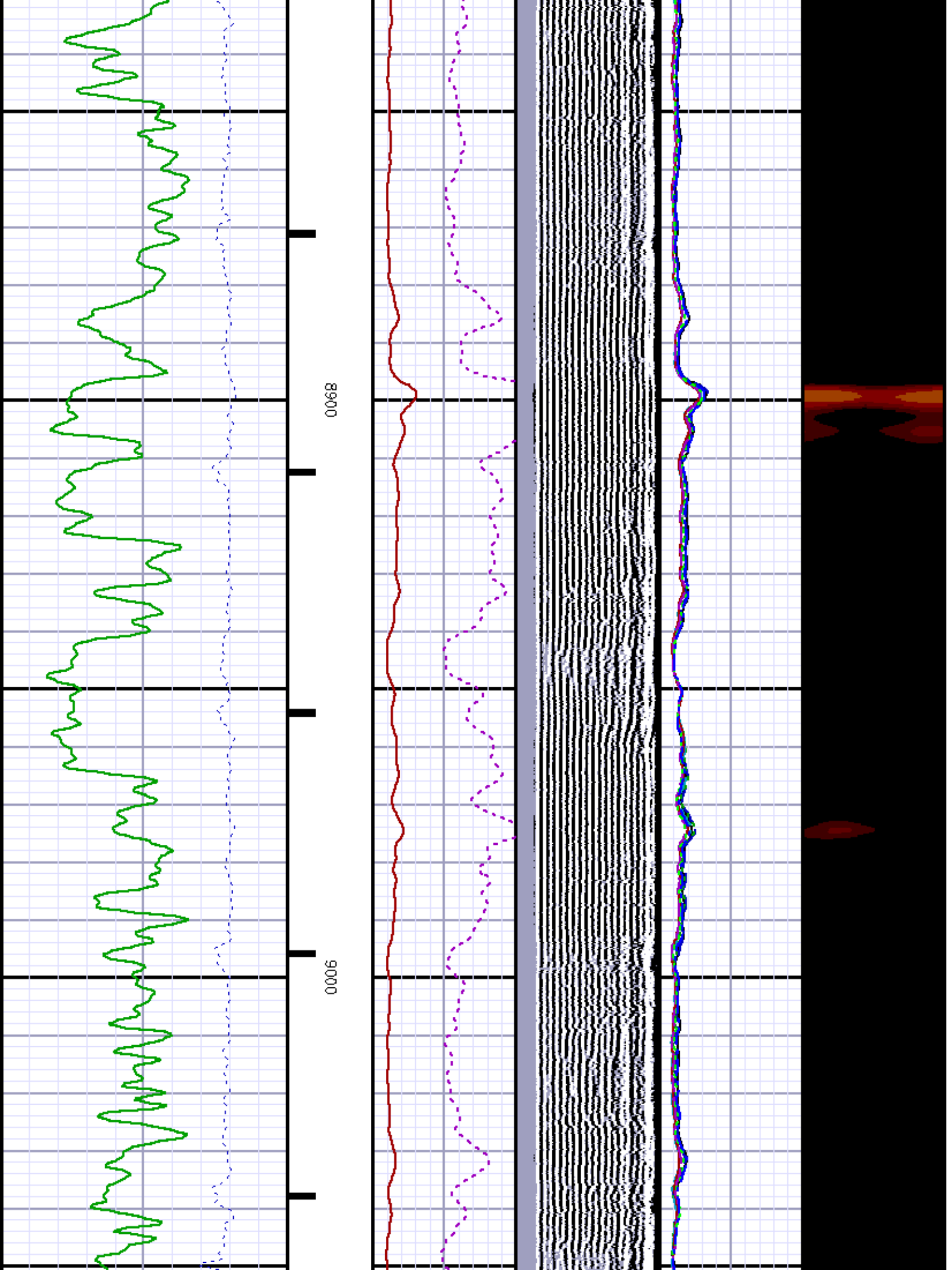


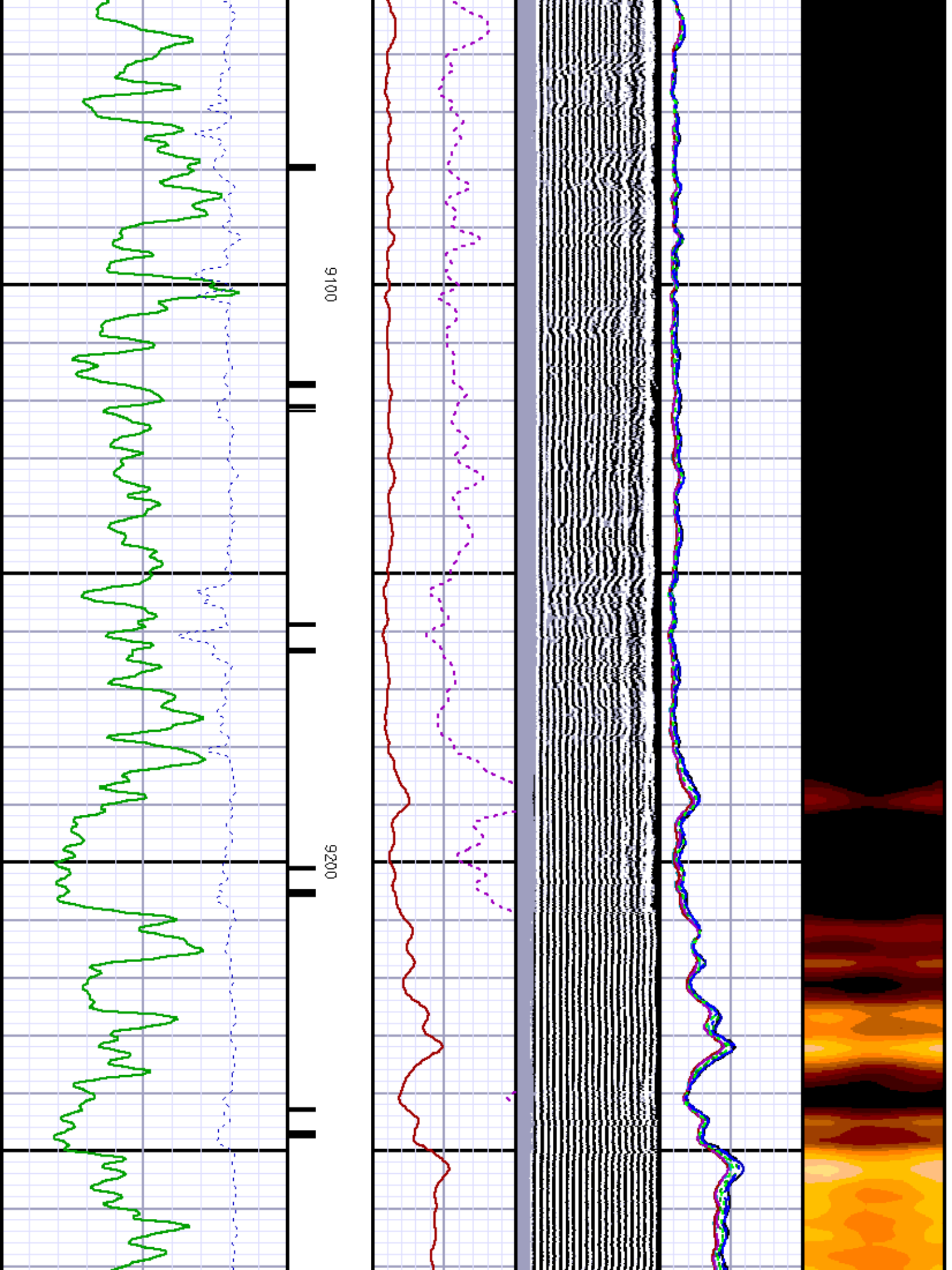


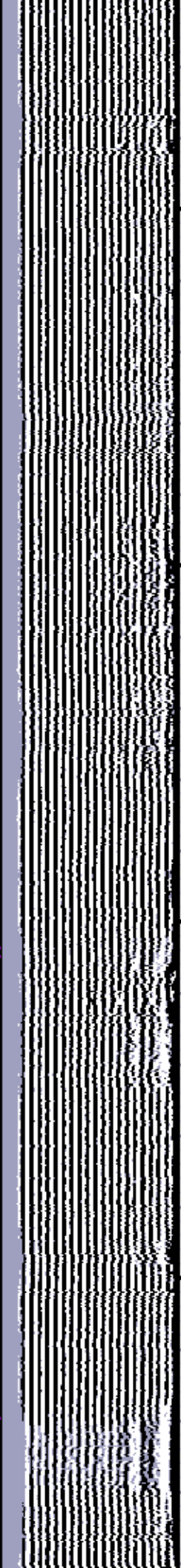






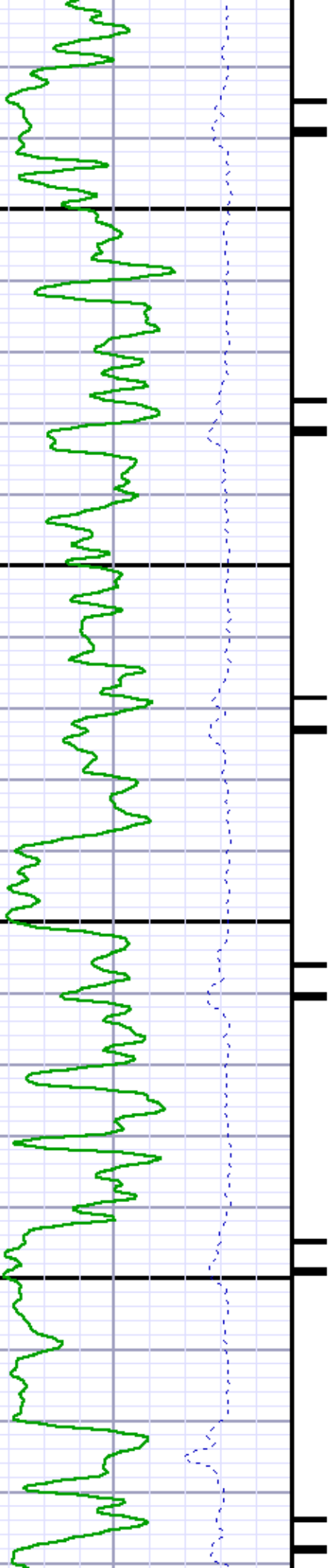


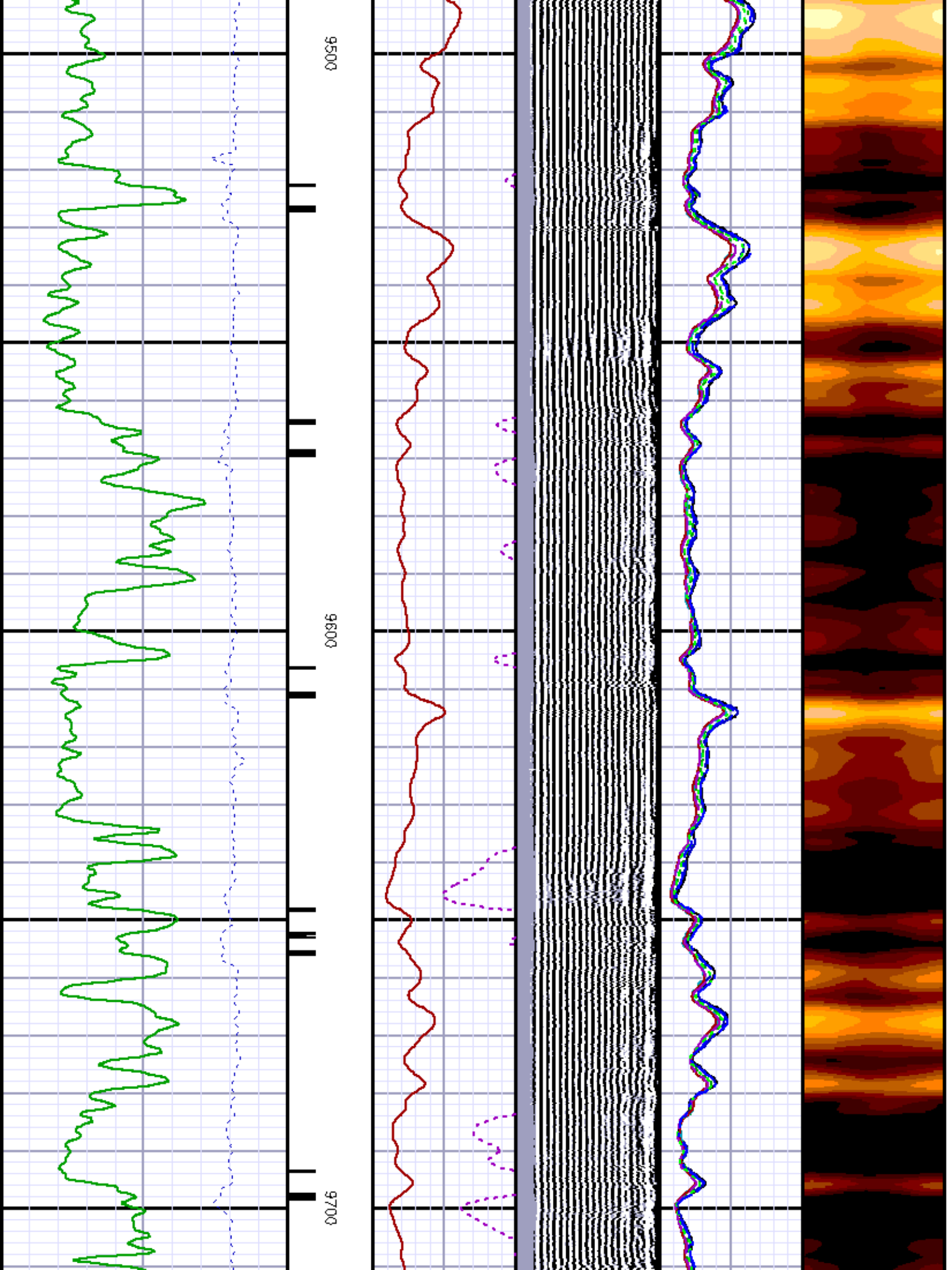




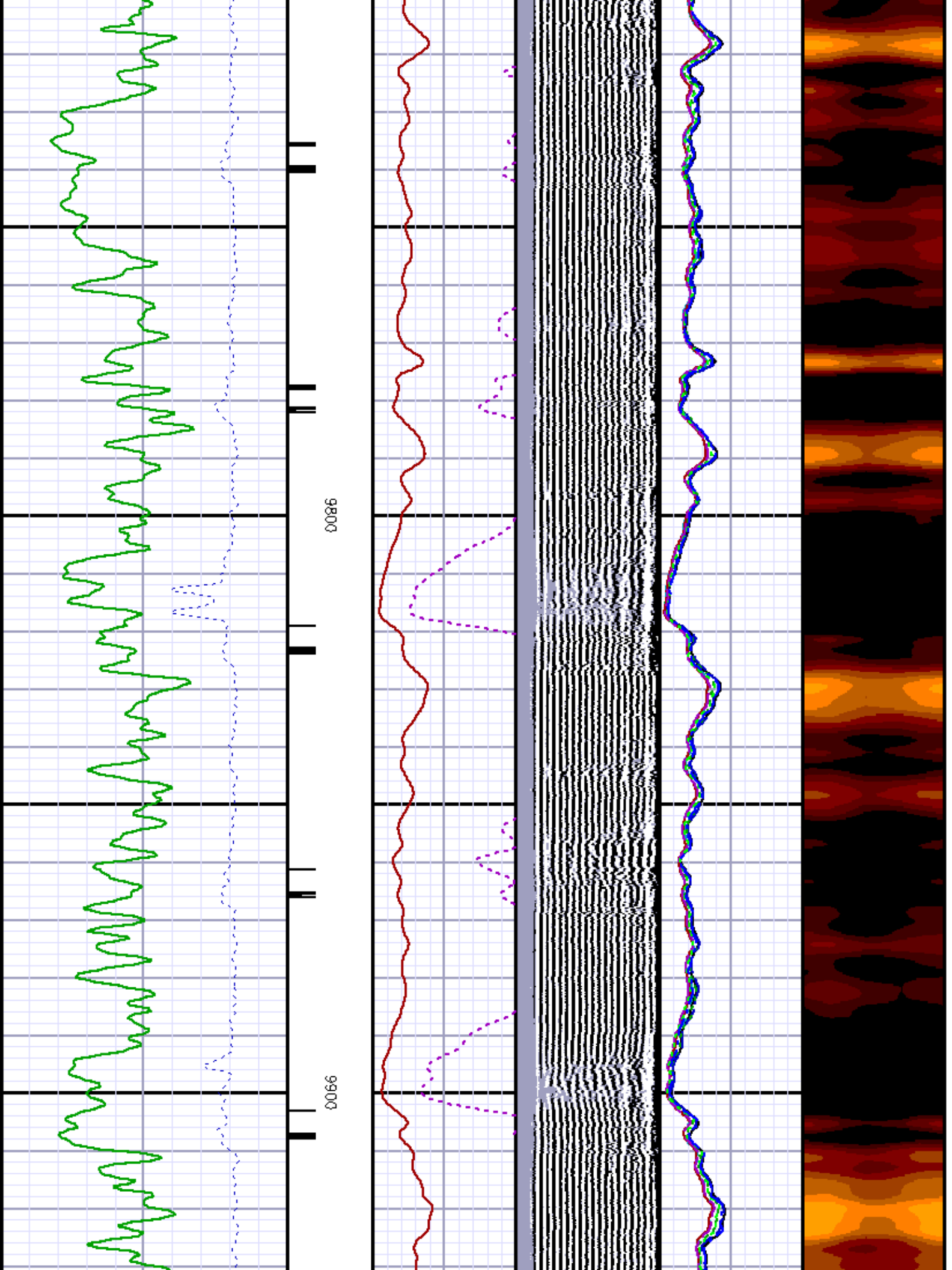
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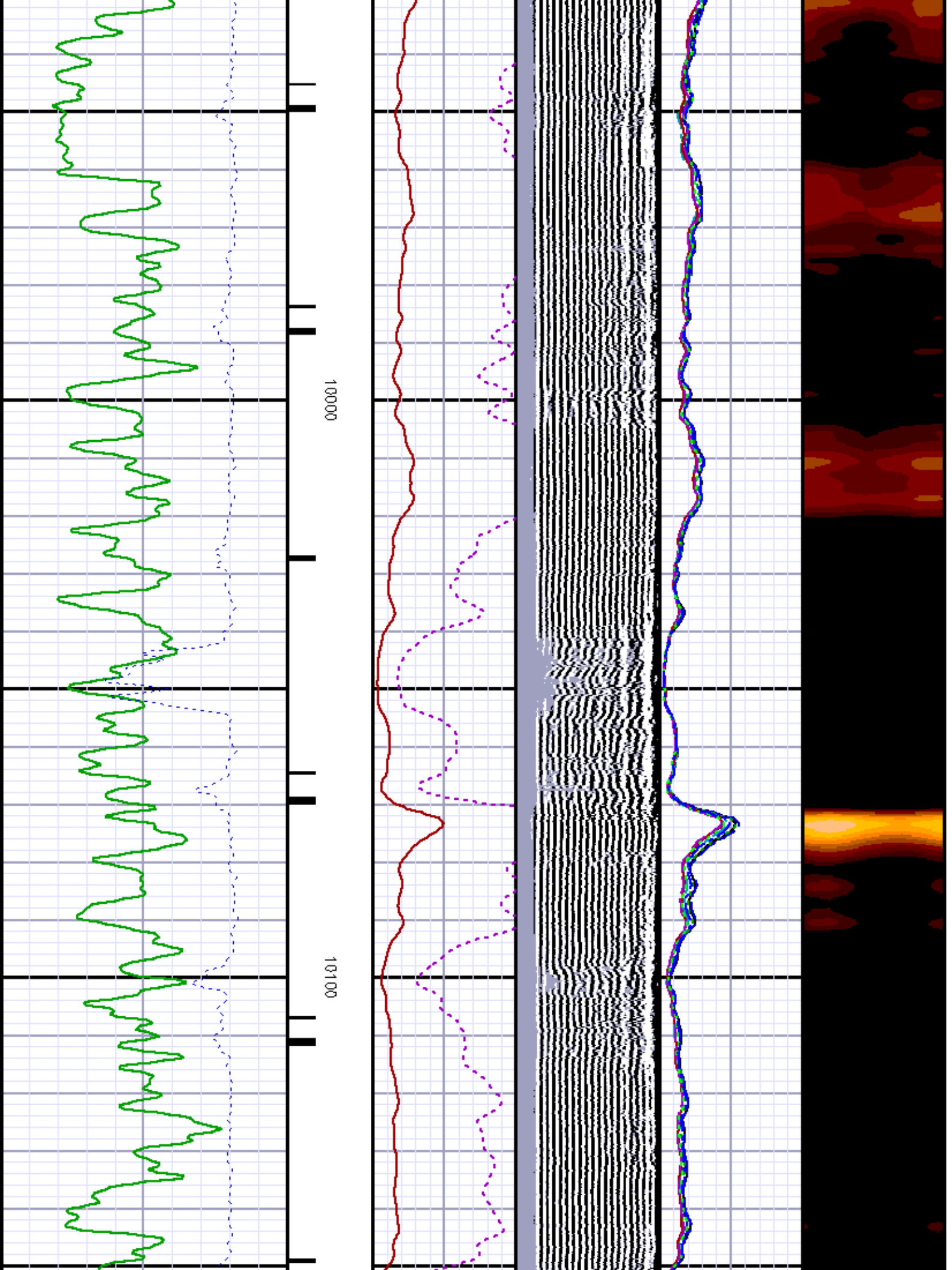
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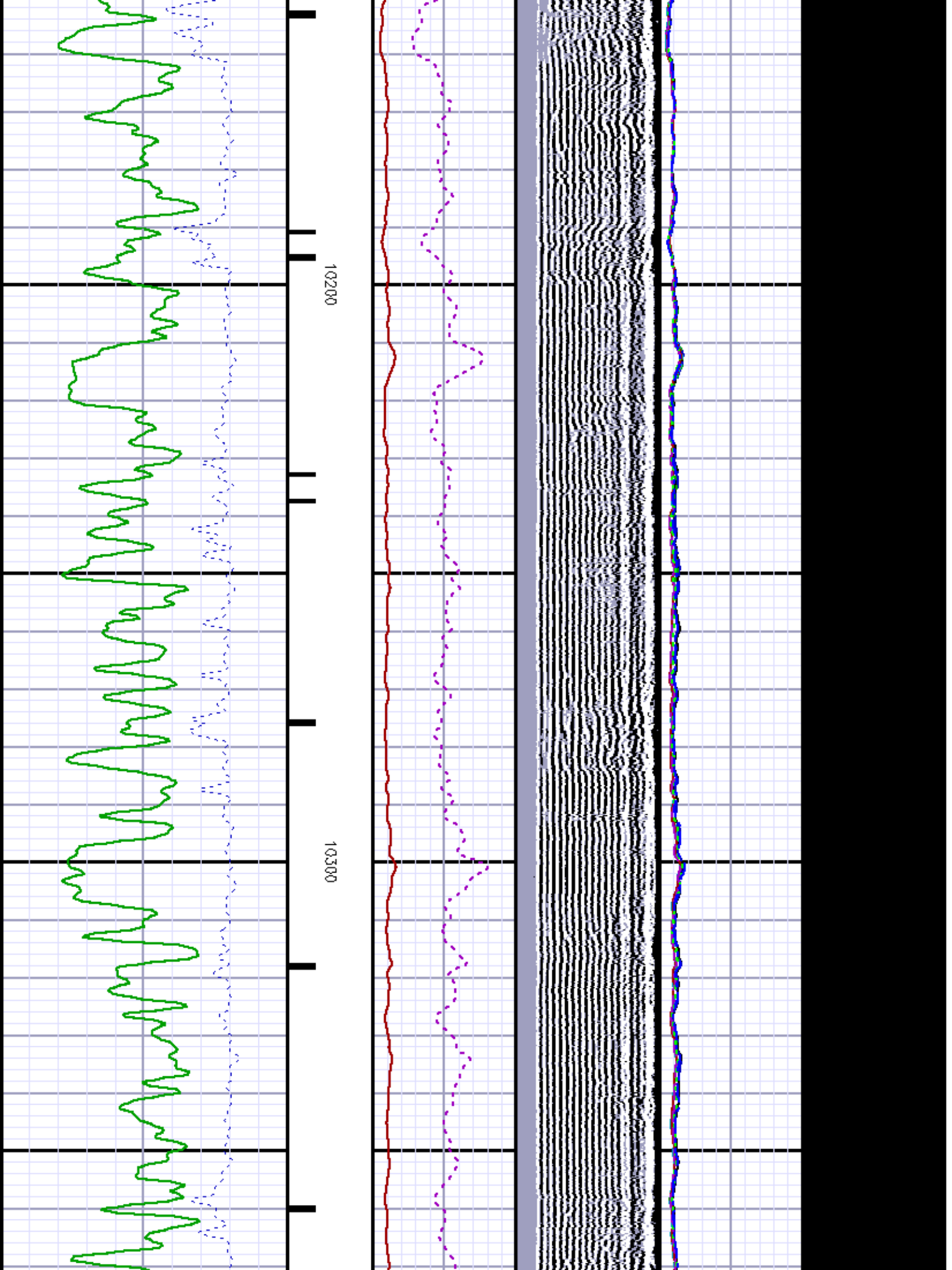


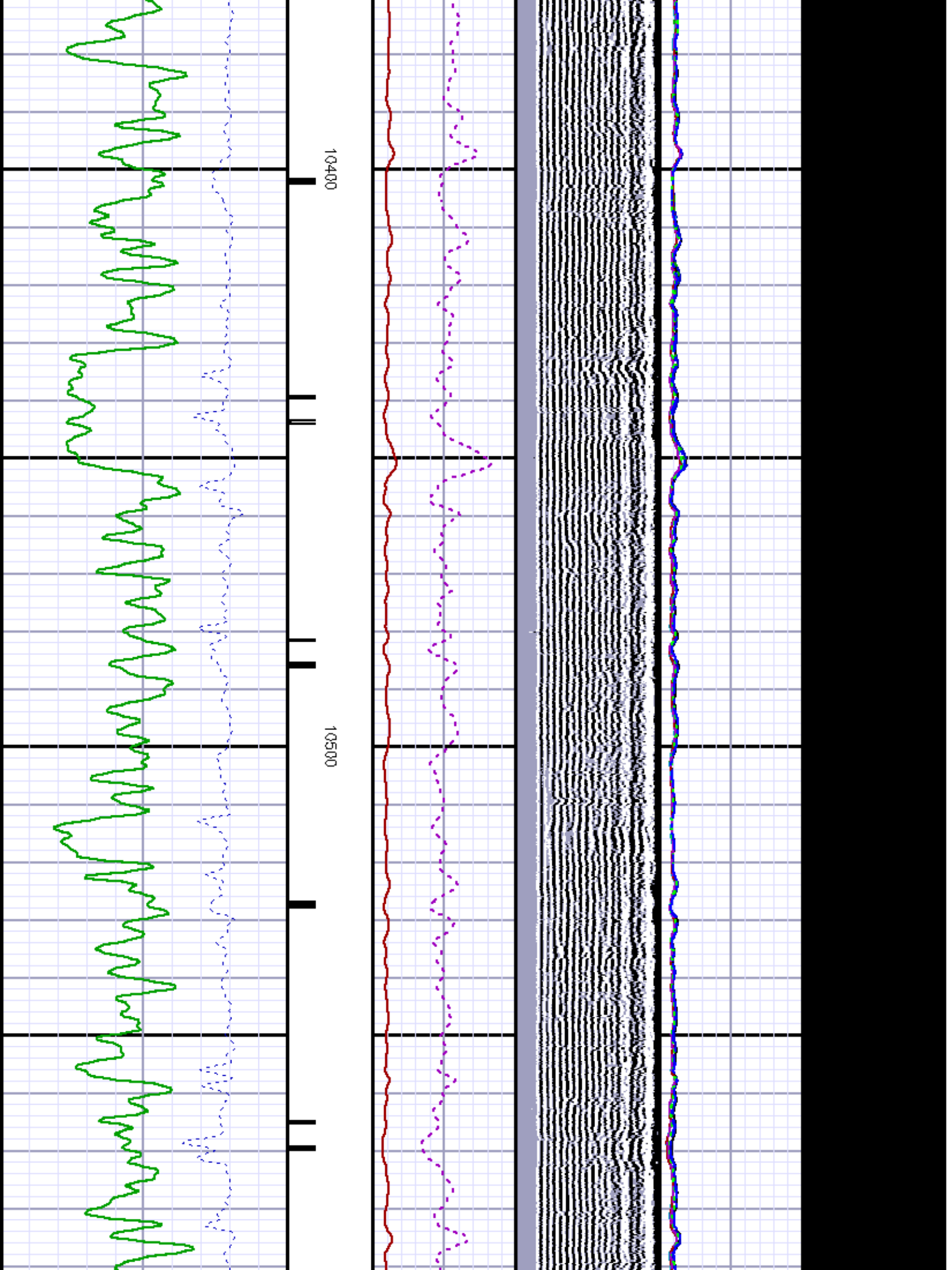




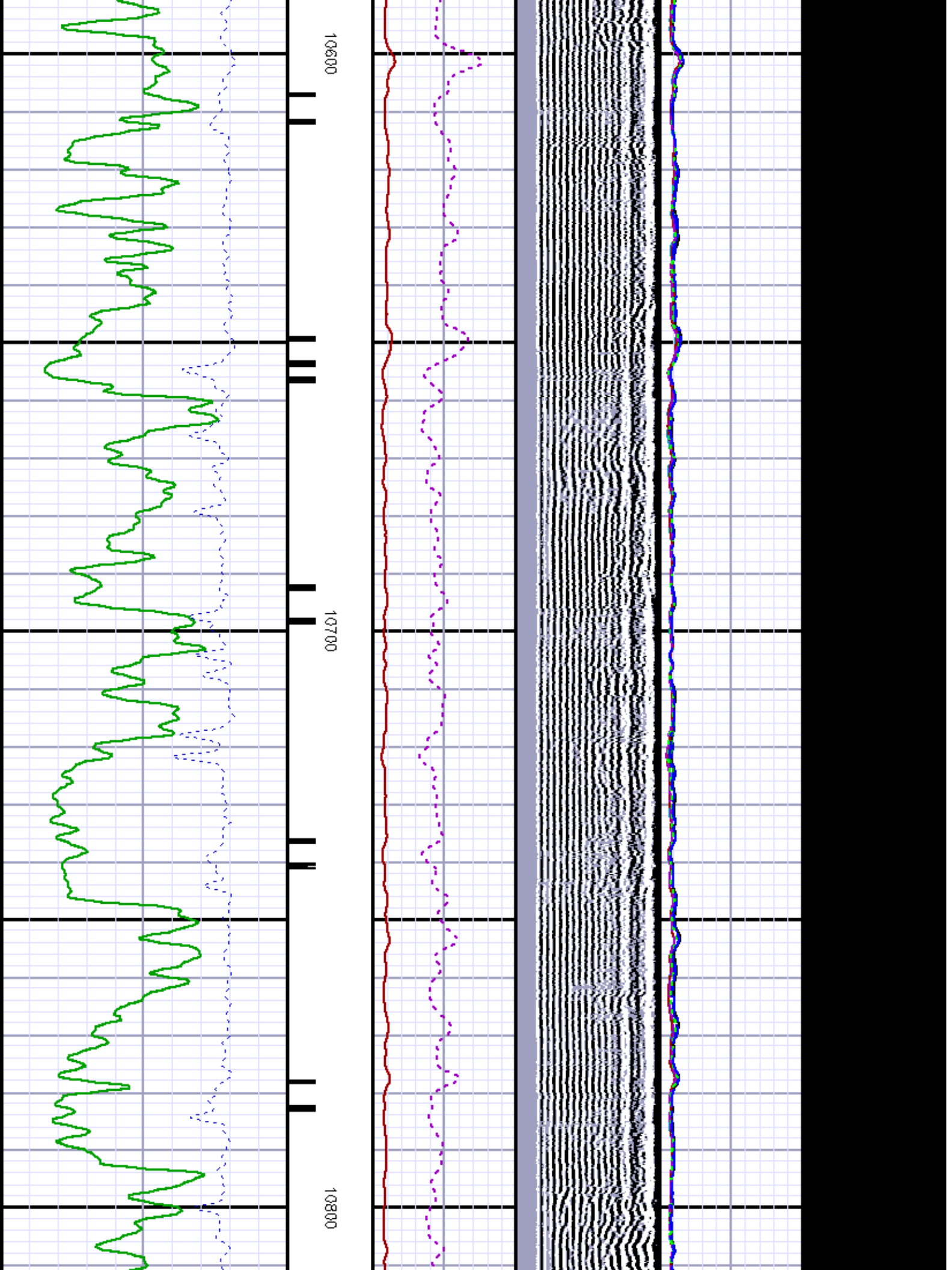


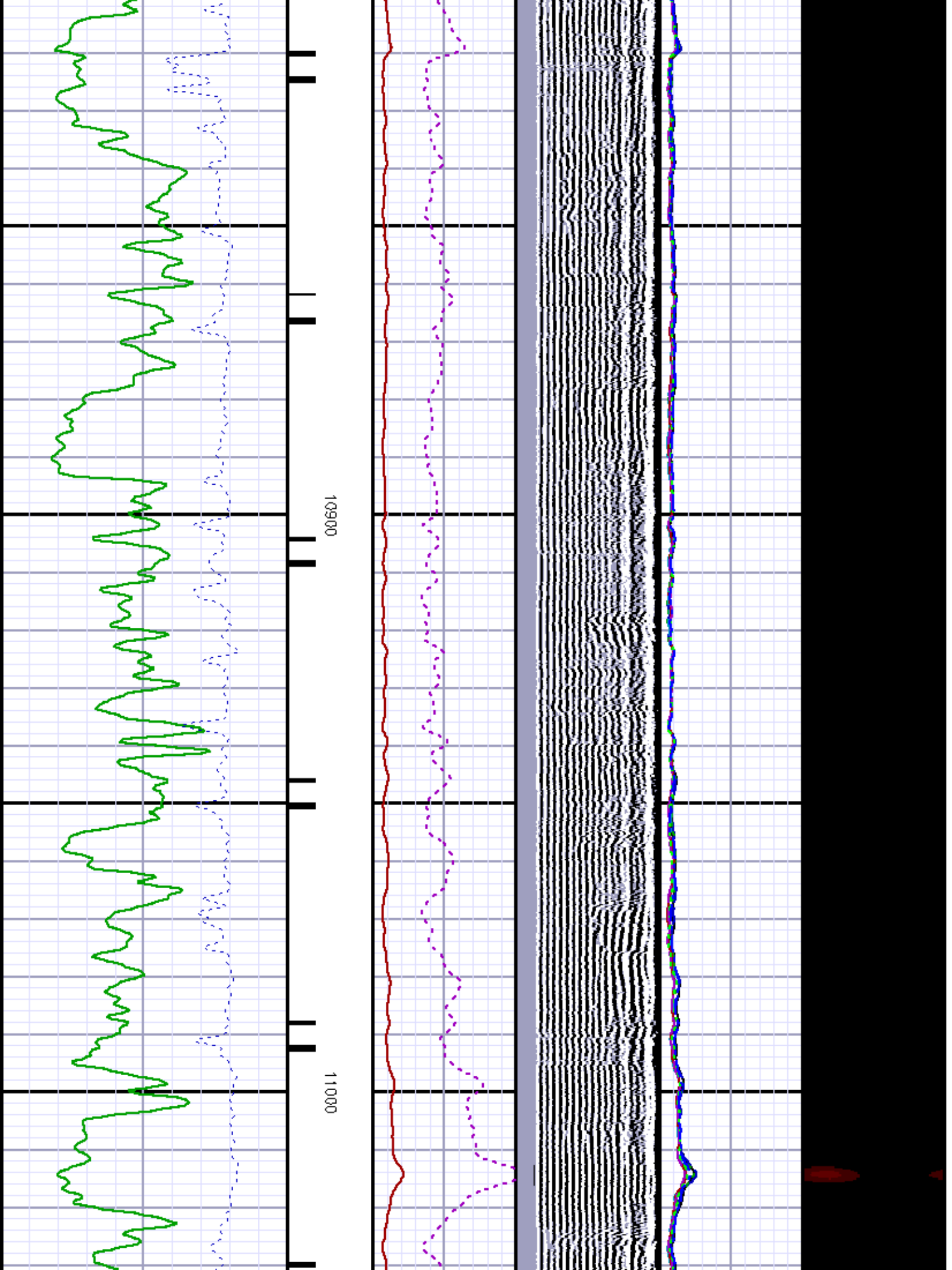


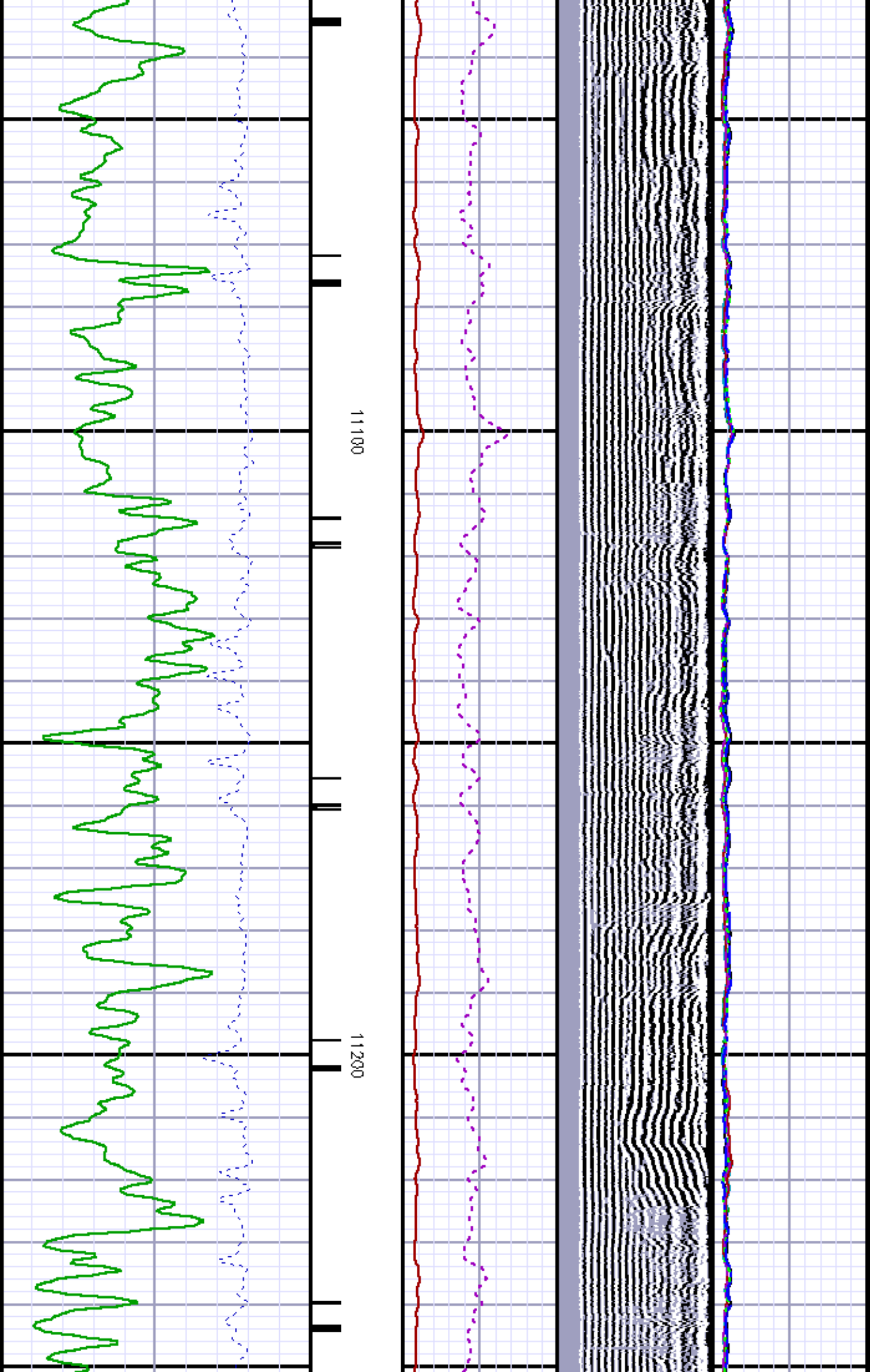


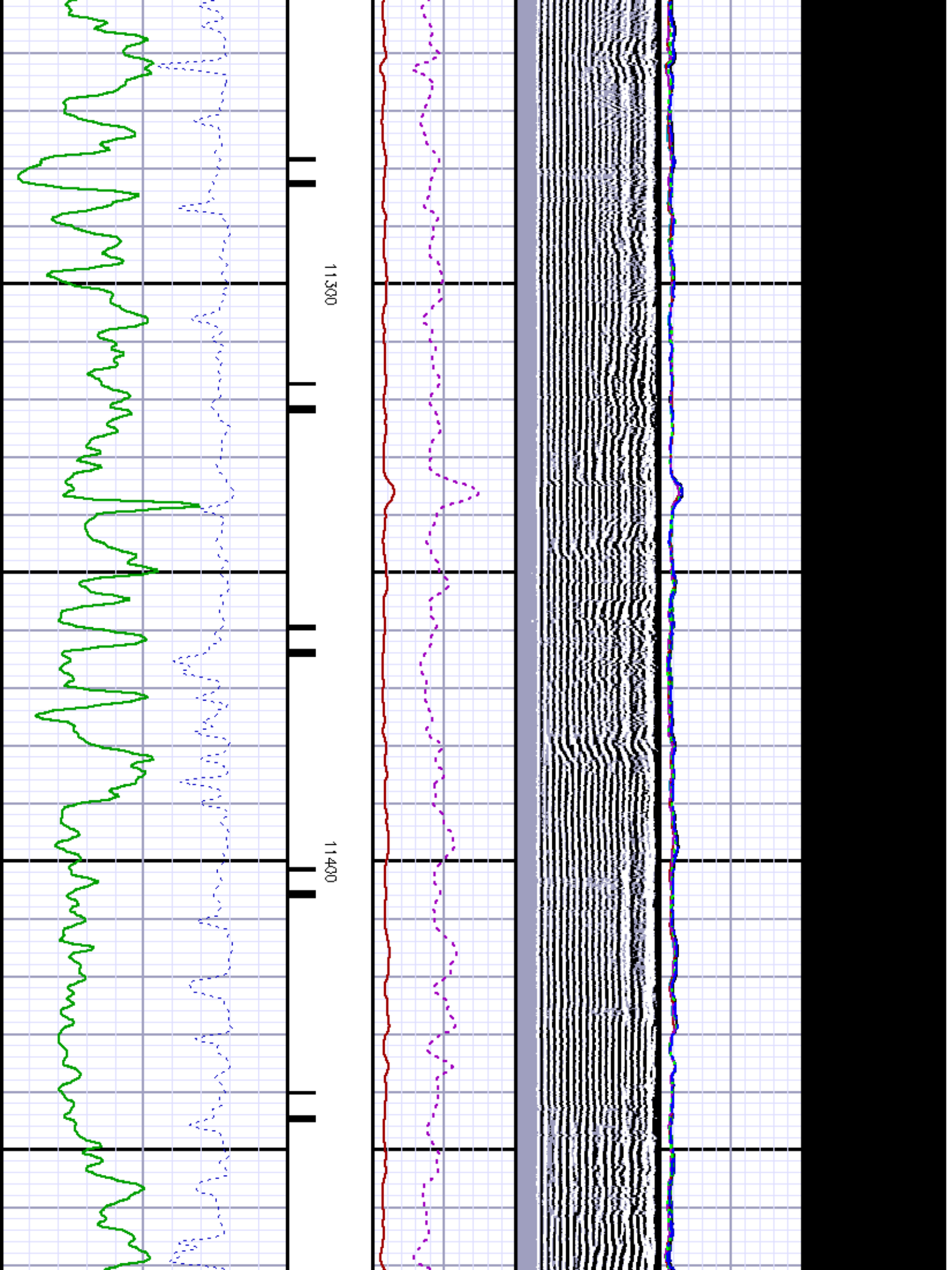




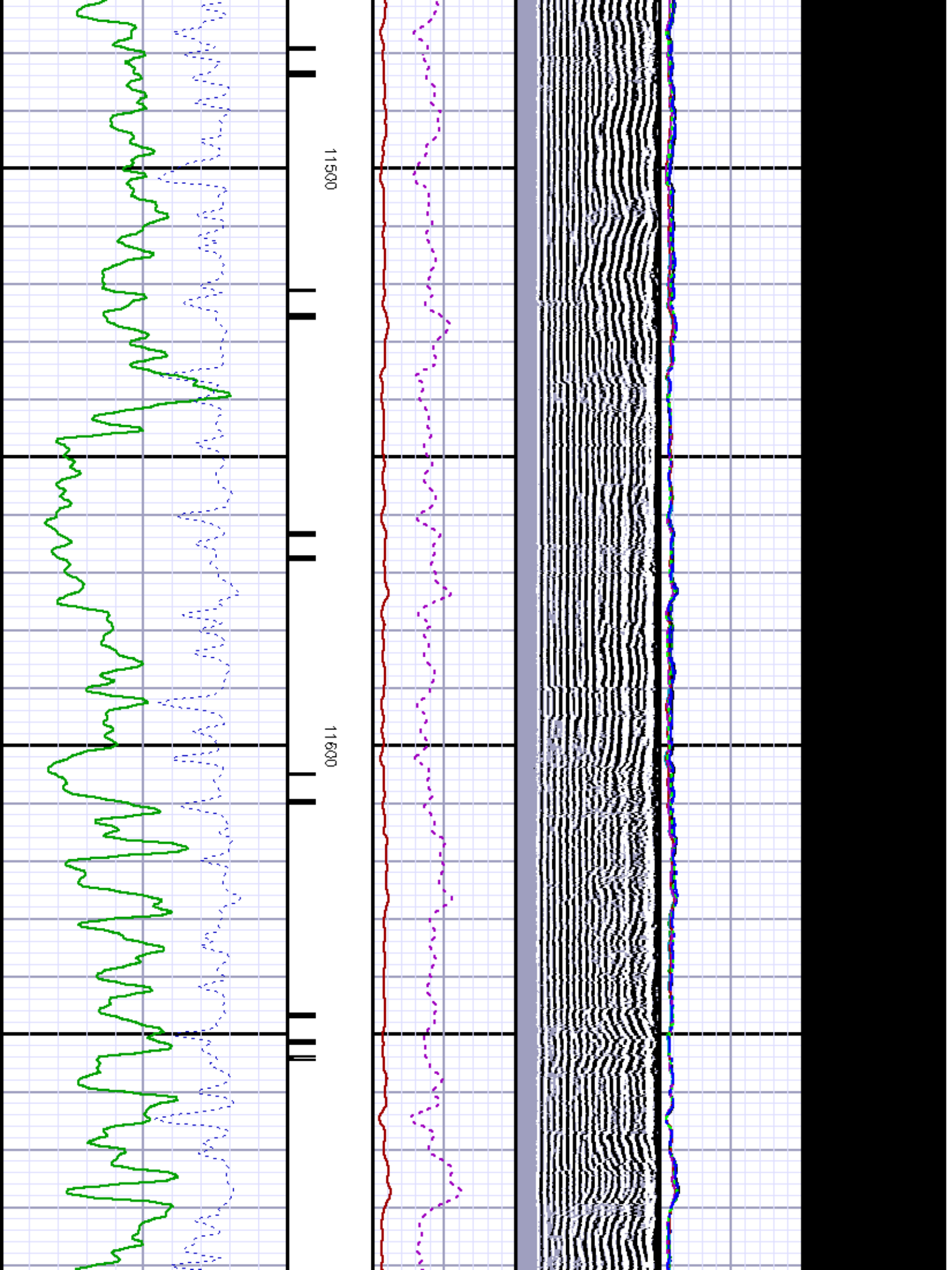


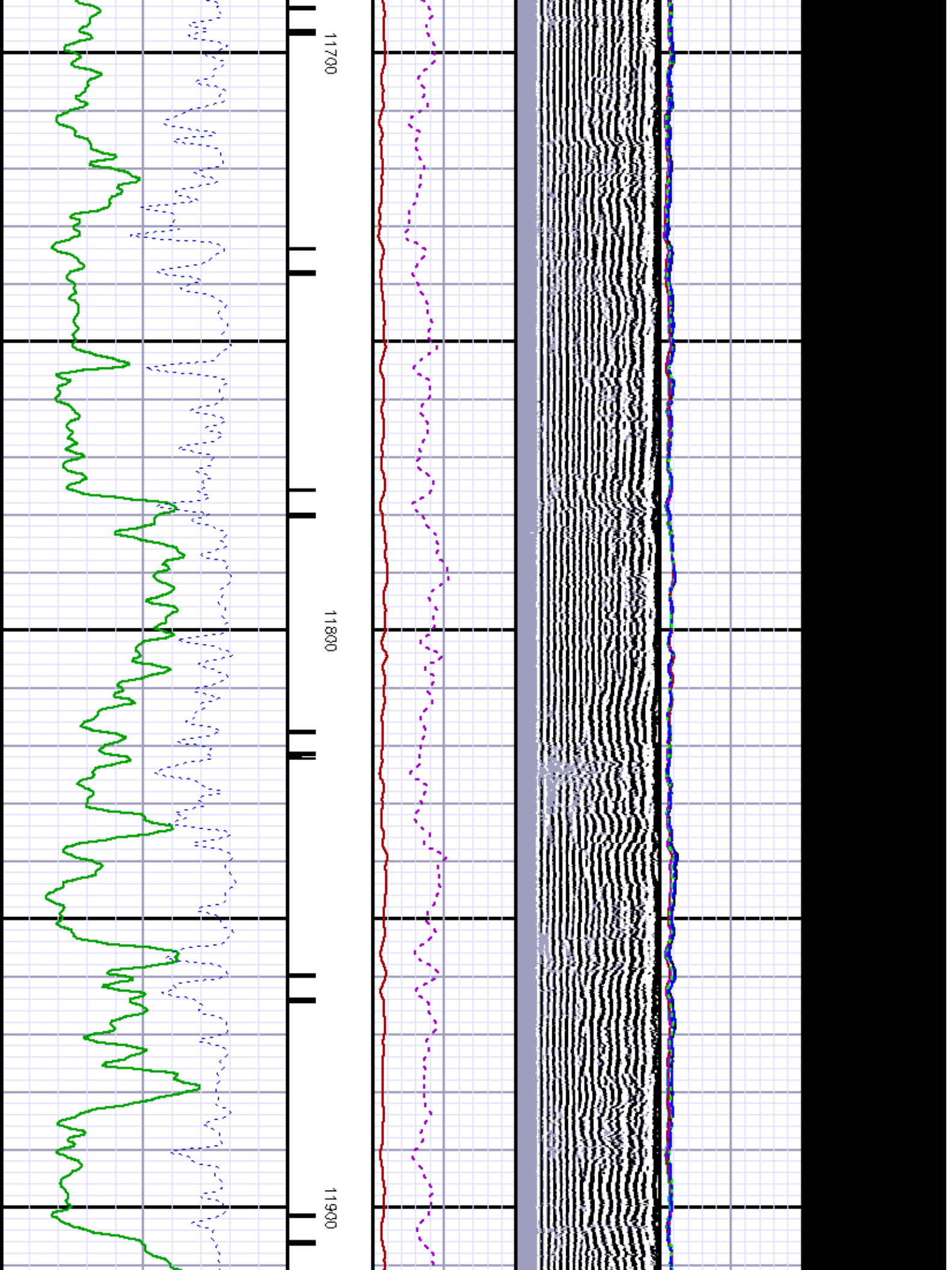


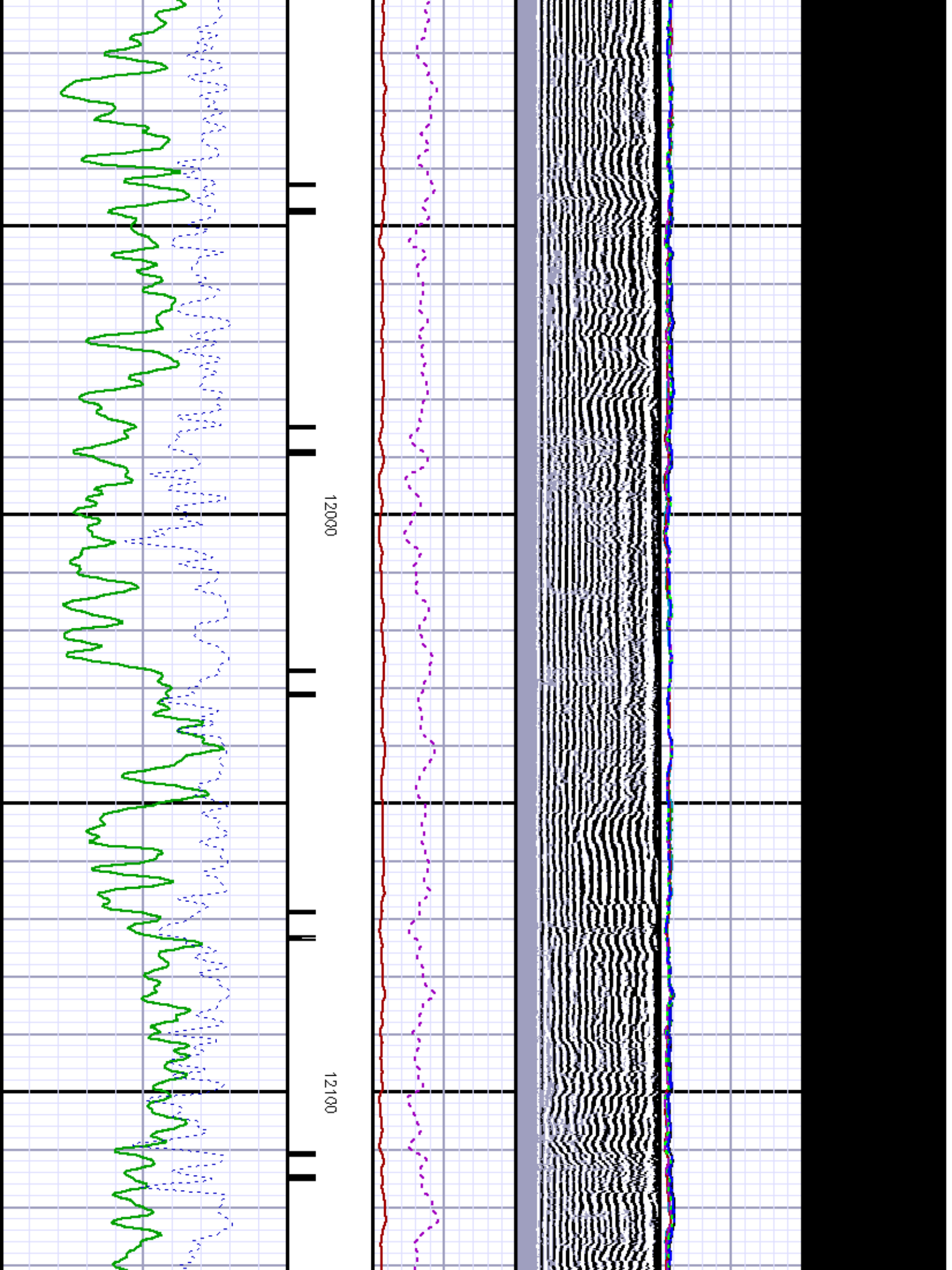


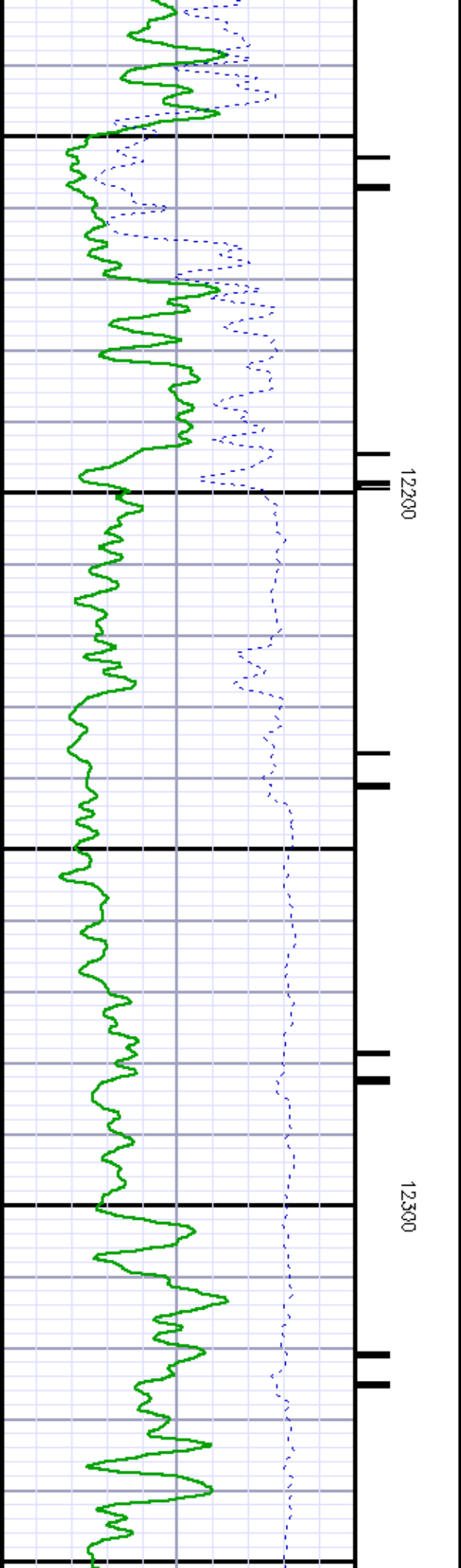
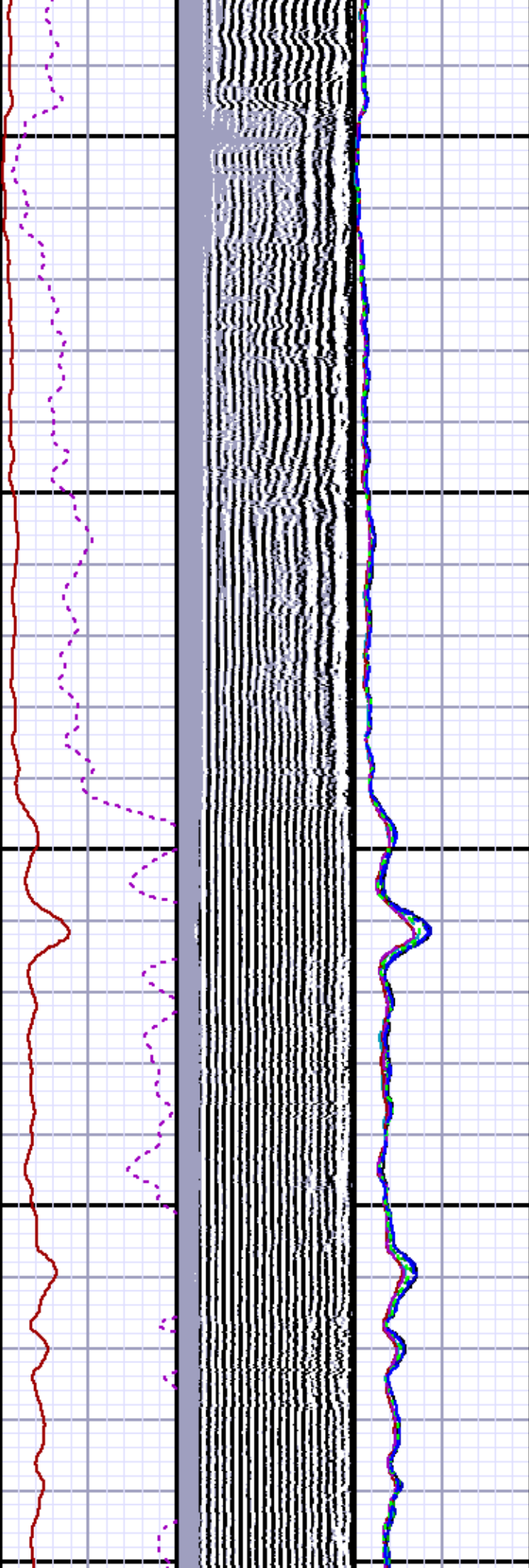




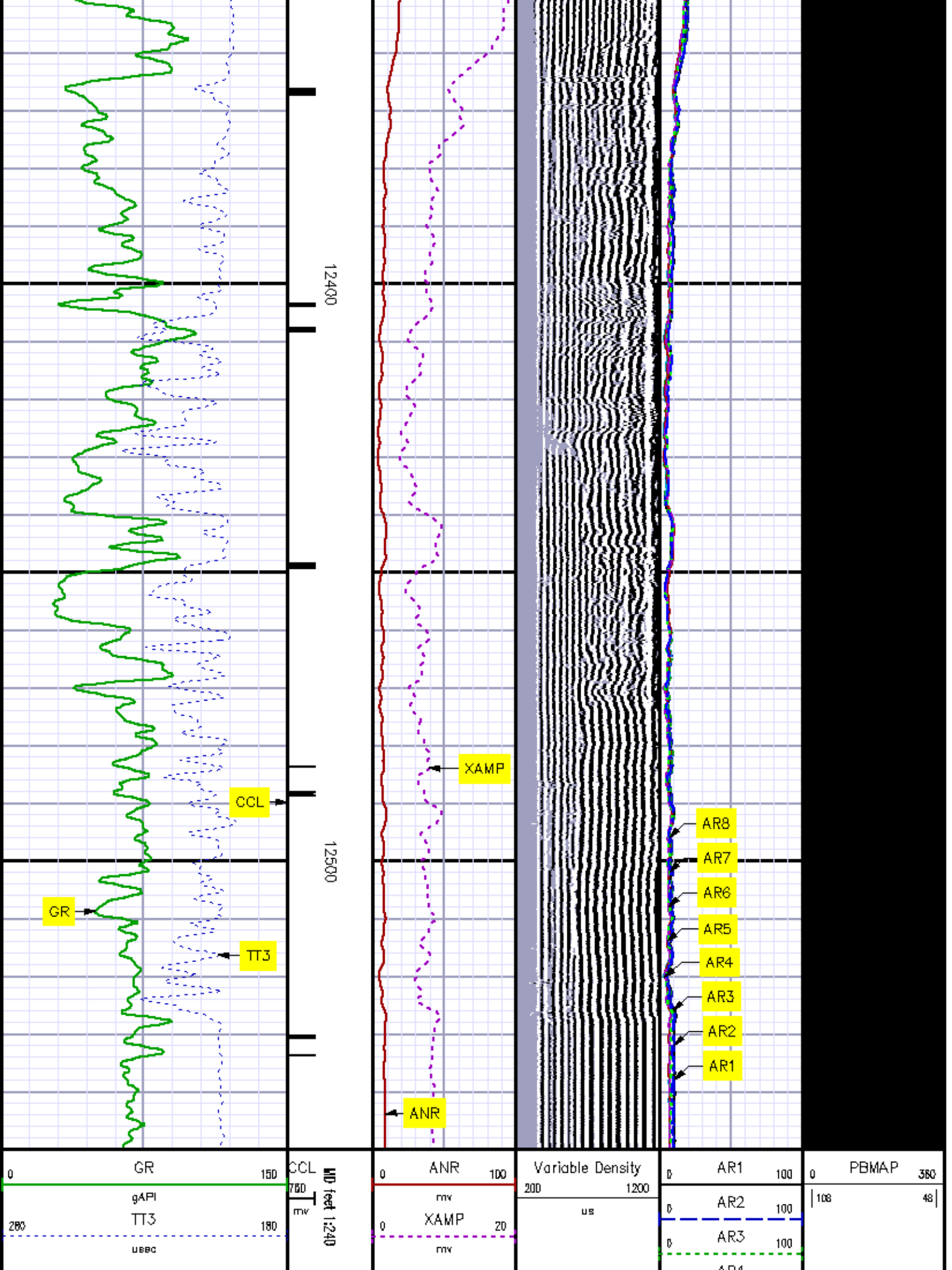












Ø	AR4	100
Ø	AR5	100
Ø	AR6	100
Ø	AR7	100
Ø	AR8	100

## *REPEAT SECTION*

*0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	314.263	usec	12149.850	12571.000
RAL	Amp Gate Start Near	197.754	usec	12149.850	12571.000
RAL	Amp Gate Start Radial	197.754	usec	12149.850	12571.000
RAL	Amp Gate Width Far	25.000	usec	12149.850	12571.000
RAL	Amp Gate Width Near	25.000	usec	12149.850	12571.000
RAL	Amp Gate Width Radial	25.000	usec	12149.850	12571.000
RAL	casing od	4.500	inches	12149.850	12571.000
RAL	casing wt	15.100	lbm/ft	12149.850	12571.000
RAL	FB Start Far	289.263	usec	12149.850	12571.000
RAL	FB Start Near	172.754	usec	12149.850	12571.000
RAL	FB Start Radial	172.754	usec	12149.850	12571.000
RAL	FB Thresh Far	10.000	mv	12149.850	12571.000
RAL	FB Thresh Near	4.000	mv	12149.850	12571.000
RAL	FB Thresh Radial	4.000	mv	12149.850	12571.000
RAL	Fluid Travel Time	200.000	usec/ft	12149.850	12570.756

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-15.360	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	ARB	CHV	FPR2
		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP

1426XA	-14.380	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 : exxon mobil production company

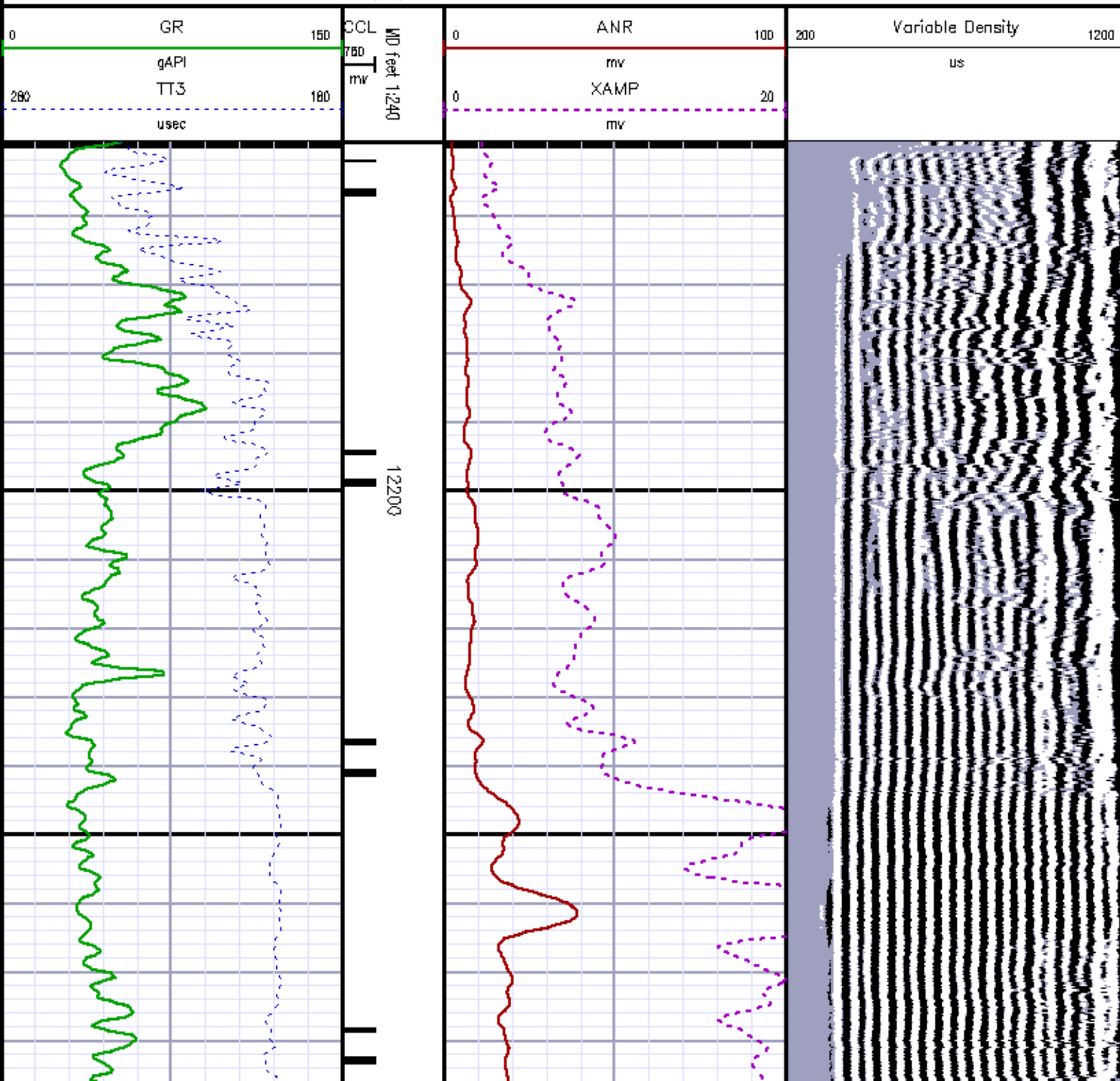
Well : PCU 297-11-06

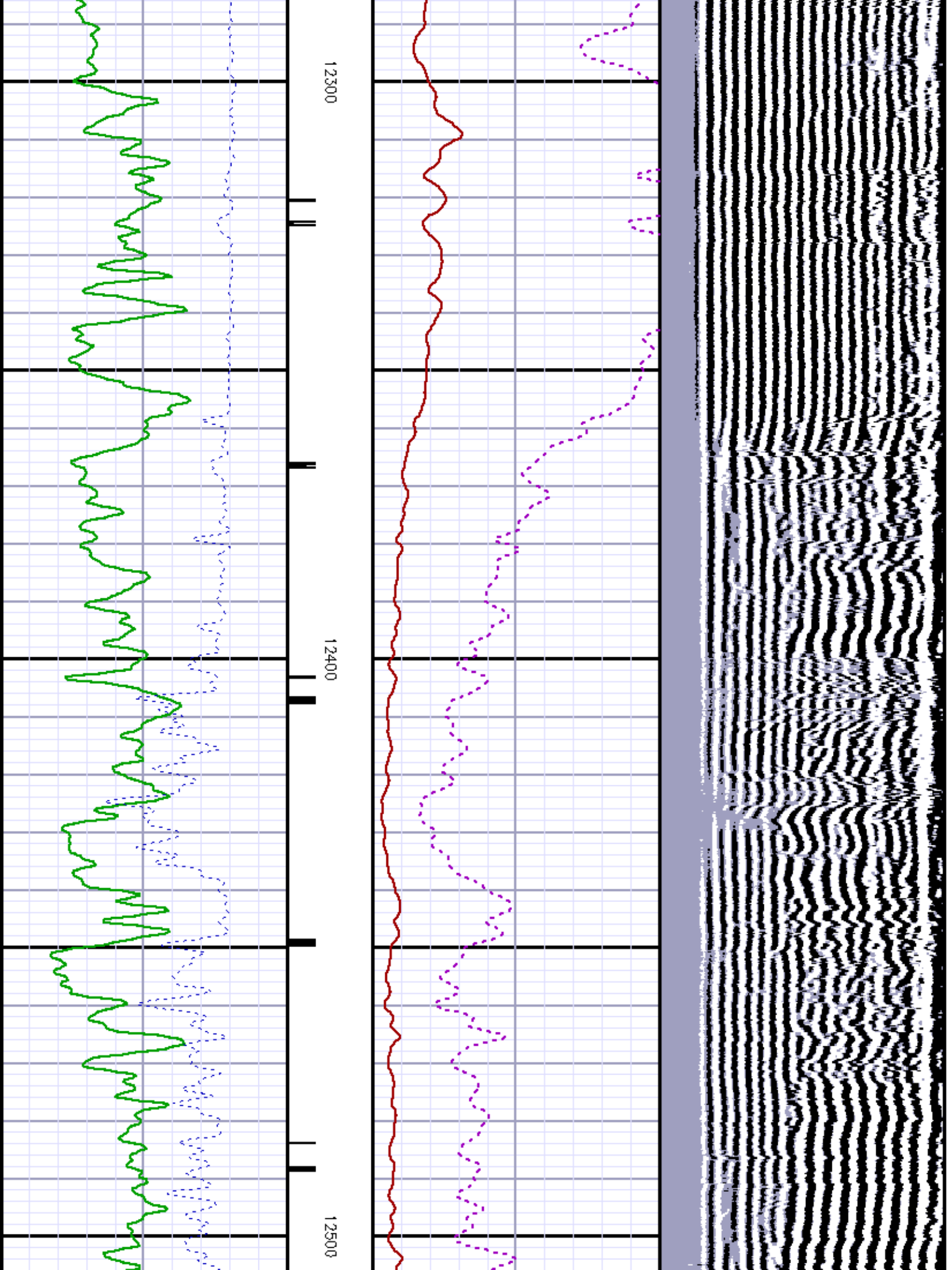
File Name : d:\welldata\radc6\repeat.xtf

Mode : PlotMgr 5.4.504

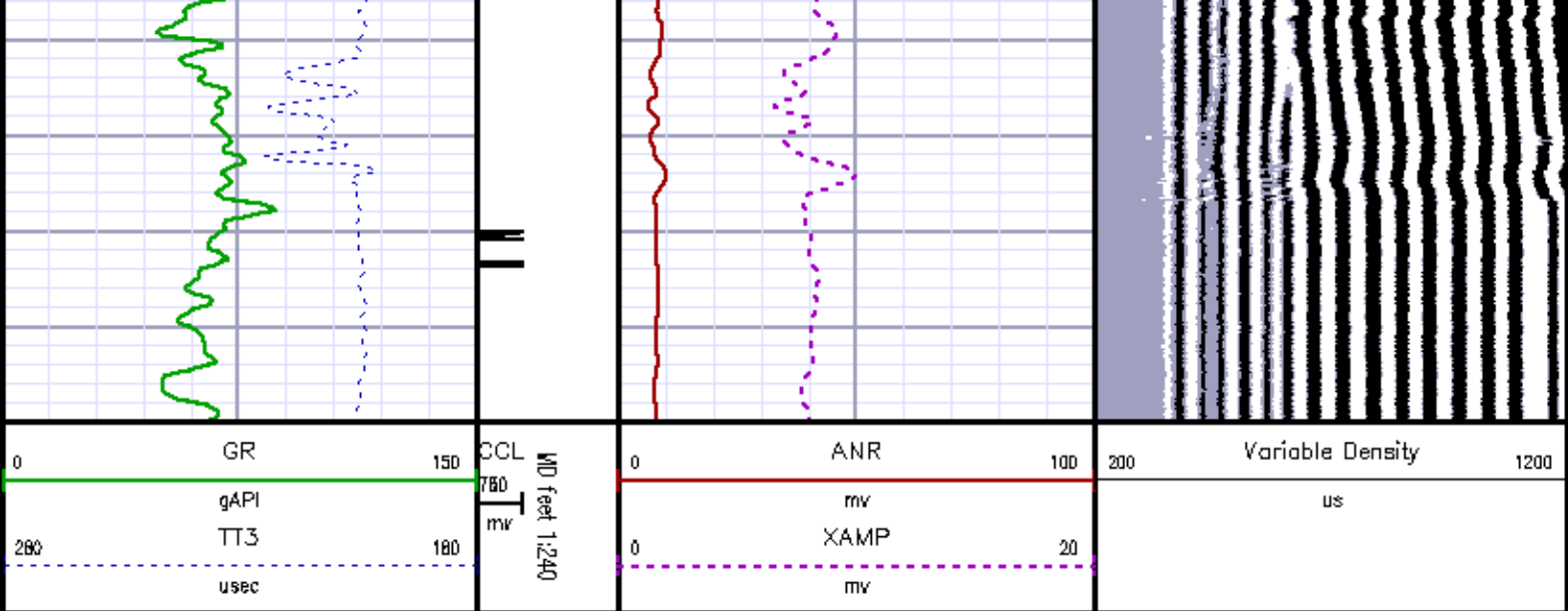
Interval : 12149.50 - 12550.00 feet UP

Created : 7/17/2010 10:52:08 AM









## CALIBRATION SUMMARY

## GAMMA RAY

Calibration File: C:\case\calver\GR\457T1.cal

### CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Jul 02 16:06:24 2010 TOOL SERIES: 1426XA ASSET: 457 SEQ: T1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
52K DA856	87.33	359.42	0.680	59.38	244.38	185.00

Verification File: C:\case\calver\GR\457T1.VP

### PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Fri Jul 02 16:07:44 2010 TOOL SERIES: 1426XA ASSET: 457 SEQ: T1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
52K DA856	92.27	359.64	0.680	62.73	244.53	181.80

## RALSHP

Shop Calibration: C:\case\calver\RALSHP\452T1\_shp.cal

DATE/TIME PERFORMED: Fri Jul 02 16:08:53 2010 TOOL SERIES: 1426XA ASSET: 452 SEQ: T1

Tool Delay [usec]	-54.00	Tank OD in	5.50	Tank Wt lbm/ft	15.50	Tank ID in	4.95
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RECEIVER	Travel Time [usec]	Amp. Gate Start [usec]	Amp. Gate Width [usec]	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Amp Ref. [mV]	Shop Factor
CAL Pulse	218	216	30	166	25	-0.207	100.00	0.20
3 Ft. Receiver	219	216	30	166	25	0.092	100.00	0.20
5 Ft. Receiver	327	324	30	256	25	0.544	150.00	0.22
Radial #1	218	216	30	166	25	0.564	100.00	0.20
Radial #2	218	216	30	166	25	0.466	100.00	0.20
Radial #3	220	216	30	166	25	0.969	100.00	0.20
Radial #4	221	216	30	166	25	0.318	100.00	0.20
Radial #5	221	216	30	166	25	-0.806	100.00	0.20
Radial #6	220	216	30	166	25	-0.251	100.00	0.20
Radial #7	218	216	30	166	25	0.287	100.00	0.20
Radial #8	219	216	30	166	25	-0.039	100.00	0.20

*RALFLD*

WellSite Calibration: C:\case\calver\RALFLD\452J16 fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Jul 16 11:05:05 2010 TOOL SERIES: 1426XA ASSET: 452 SEQ: J16

Tool Delay [usec]	-52.00	Casing OD in	4.50	Casing Wt lbm/ft	11.60	Casing ID in	4.00
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RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	112	66	0.021	0.000	1.00	100.000
3 Ft. Receiver	200	25	0.811			
5 Ft. Receiver	317	25	2.450			
Radial #1	200	25	0.565			
Radial #2	200	25	0.879			
Radial #3	200	25	0.736			
Radial #4	200	25	0.748			
Radial #5	200	25	0.272			
Radial #6	200	25	0.515			
Radial #7	200	25	0.444			
Radial #8	200	25	0.615			

*TOOL DIAGRAM*

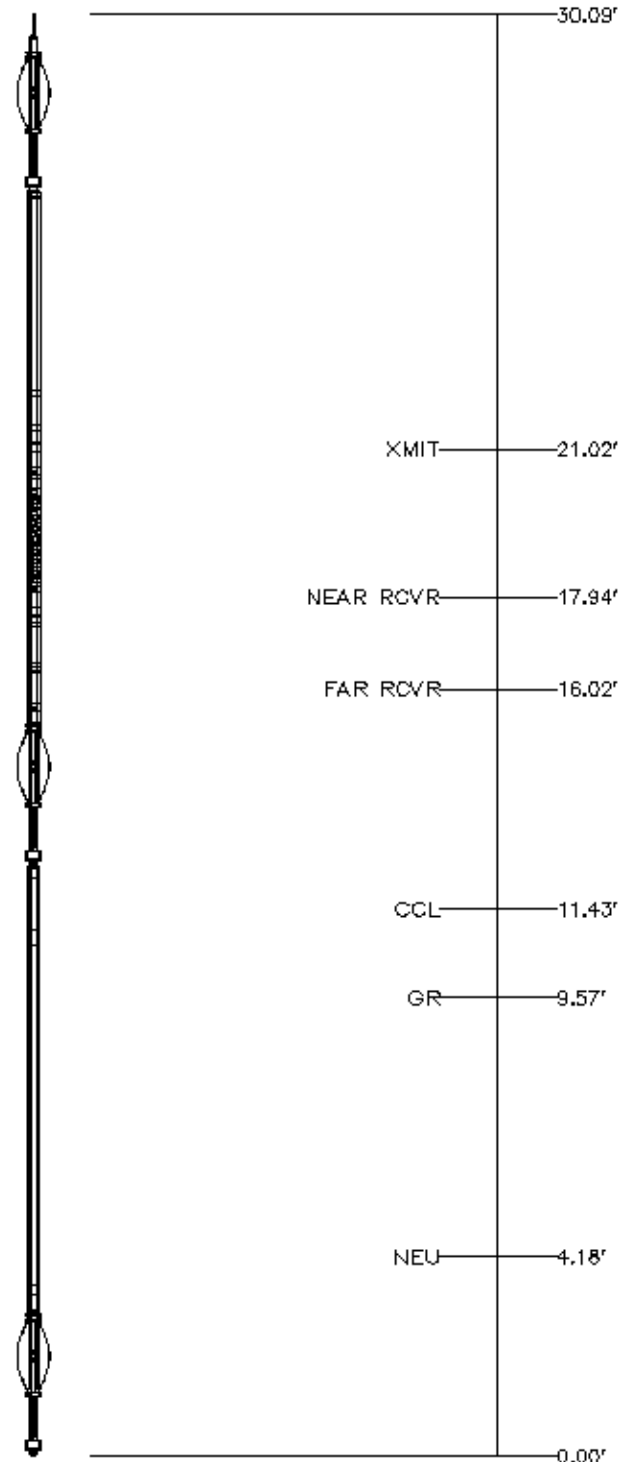
OTA SHORT CABLE HEAD	
CENTRALIZER	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

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

CENTRALIZER	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

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: 30.09'  
 Total Weight: Not Available  
 Max Diameter: 0' 3.12"

CASE

County

TX DEWEE

State

SECTION

Location

SHL: 977' FWL & 886' FWL

Elevations

KB 8993.2 ft

DF 6892.2 ft

GL 6853 ft

SEC 11 TWP 2S RGE 97W