



Baker Atlas

RADIAL ANALYSIS BOND-LOG

File No:	Company	WILLIAMS PRODUCTION COMPANY
1199	Well	RWF 423-28
API No:	Field	RULISON
08046171910000	County	GARFIELD
	State	COLORADO
	Location	Other Services
	SURFACE: 427' FSL & 663' FNL BOTTOM HOLE: 1332' FSL & 1965' FNL	RPM
	SEC 28 TWP 6S RGE 94W	
Permanent Datum	G.L.	Elevation
Log Measured From	K.B.	17 ft
Drill Measured From	KELLY BUSHING	
		Elevations
		KB 5532 ft
		DF 5551 ft
		GL 5535 ft

Date	21-MAY-2009	
Run	ONE	
Service Order	573342	
Depth Driller	8175 ft	
Depth Logger	8106 ft	
Bottom Logged Interval	8106 ft	
Top Logged Interval	10 ft	
Time Started	08:30	
Time Finished	14:30	
Operator Rig Time	8 HRS	
Type of Fluid in Hole	WATER	
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	40 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	BAKER ATLAS TRIPLE COMBO	
Reference Log Date	23-MAR-2009	
Equipment No.	4214	VERNAL, UT
Recorded By	J. SOEKEN	
Witnessed By	BRIAN D'VELL	

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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
8.75 in	SURFACE	8175 ft

Casing Record				
Size	Weight	Grade	From	To
4.5 in	11.6 lbm/ft	P-110	SURFACE	8175 ft

Remarks
LOG WAS TIED INTO BAKER ATLAS TRIPLE COMBO
WELL WAS LOGGED WITH OH PSI

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1428XA	10154957	CENTRALIZED
1	1	GR/OCL	2459XA	10124120	CENTRALIZED

MAIN SECTION

PRIMARY PRESENTATION

WITH 0# PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	318.900	usec	-1.988	8091.000
RAL	Amp Gate Start Near	200.391	usec	-1.988	8091.000
RAL	Amp Gate Start Radial	200.391	usec	-1.988	8091.000
RAL	Amp Gate Width Far	25.000	usec	-1.988	8091.000
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RAL	casing od	4.500	inches	-1.988	8091.000
RAL	casing wt	11.600	lbm/ft	-1.988	8091.000
RAL	FB Start Far	291.900	usec	-1.988	8091.000
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RAL	FB Start Radial	175.391	usec	-1.988	8091.000
RAL	FB Thresh Far	10.000	mV	-1.988	8091.000
RAL	FB Thresh Near	4.000	mV	-1.988	8091.000
RAL	FB Thresh Radial	4.000	mV	-1.988	8091.000
RAL	Fluid Travel Time	200.000	usec/ft	-1.988	8090.575

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	GCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

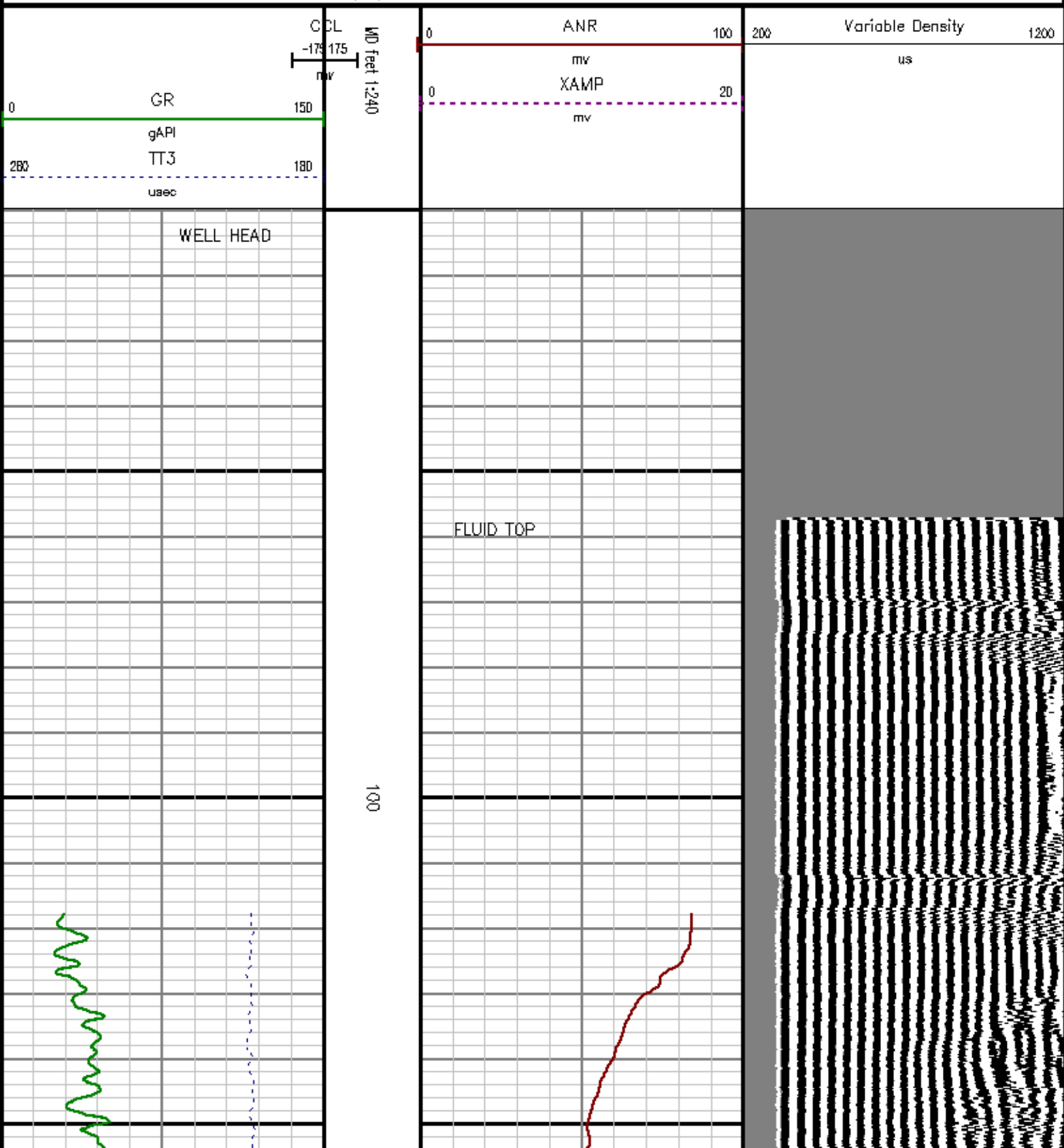
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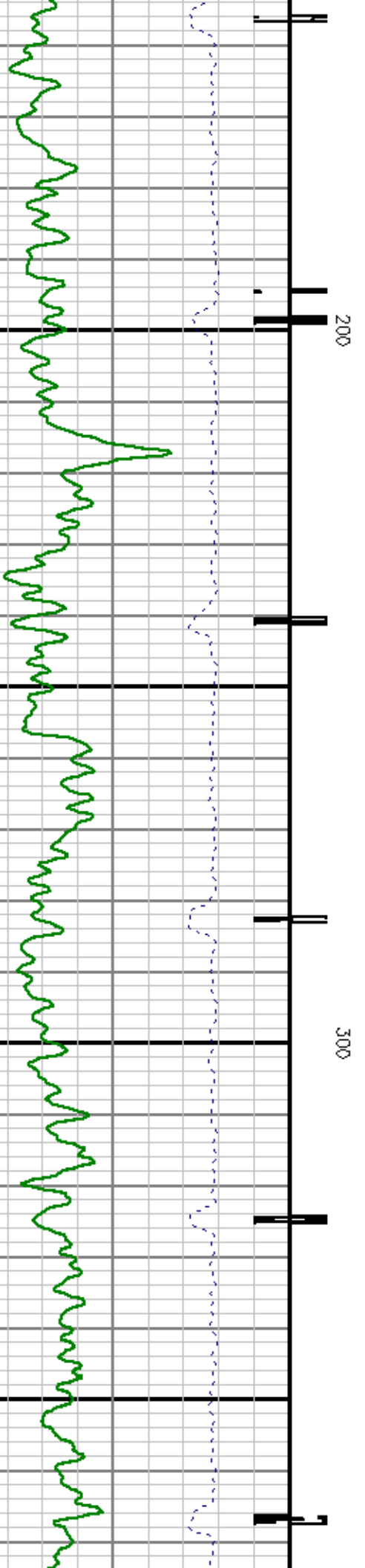
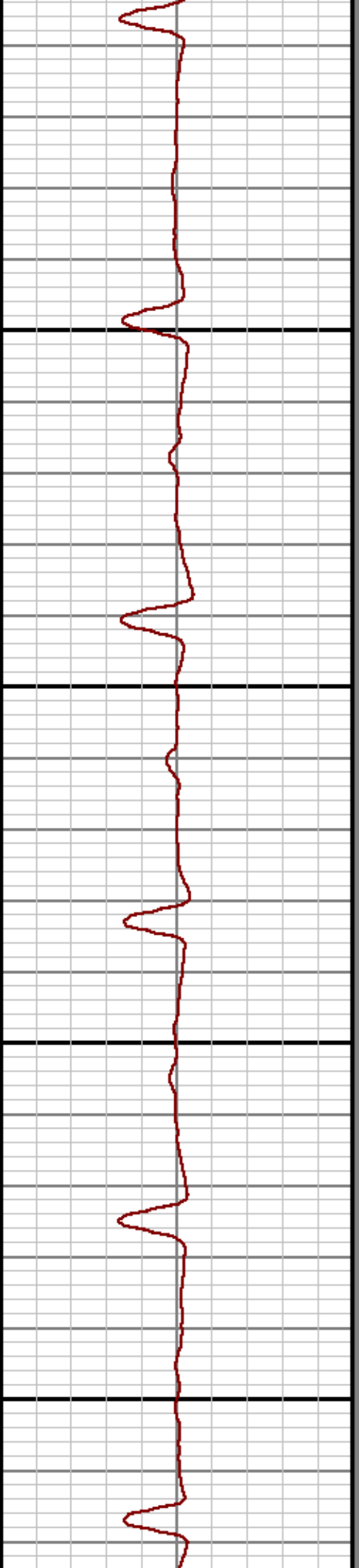
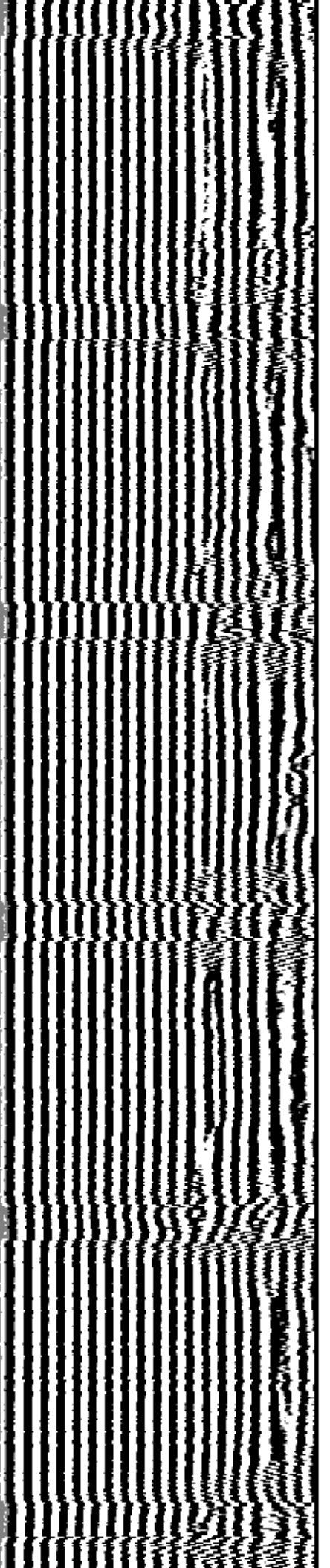
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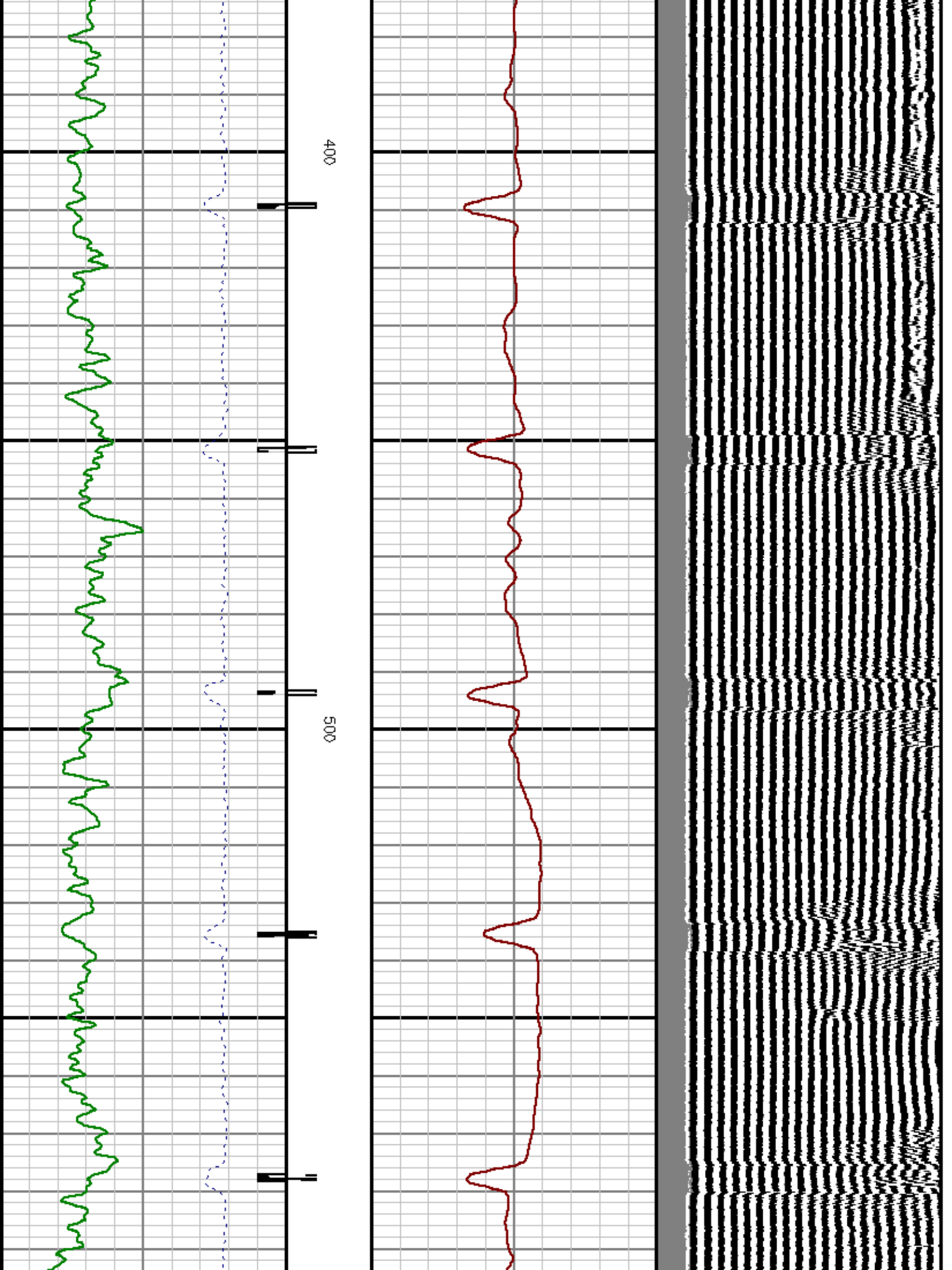
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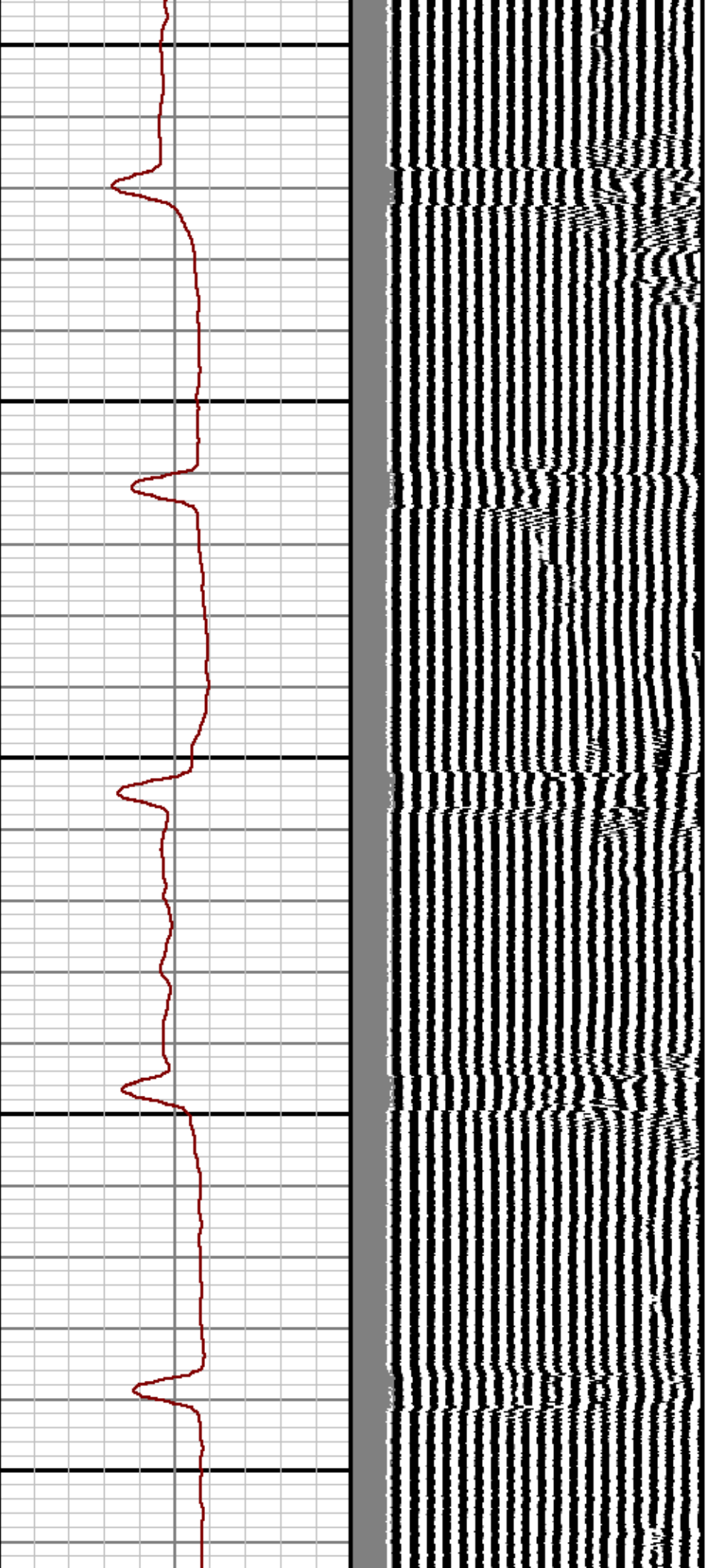
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Created : 5/21/2009 9:22:39 AM





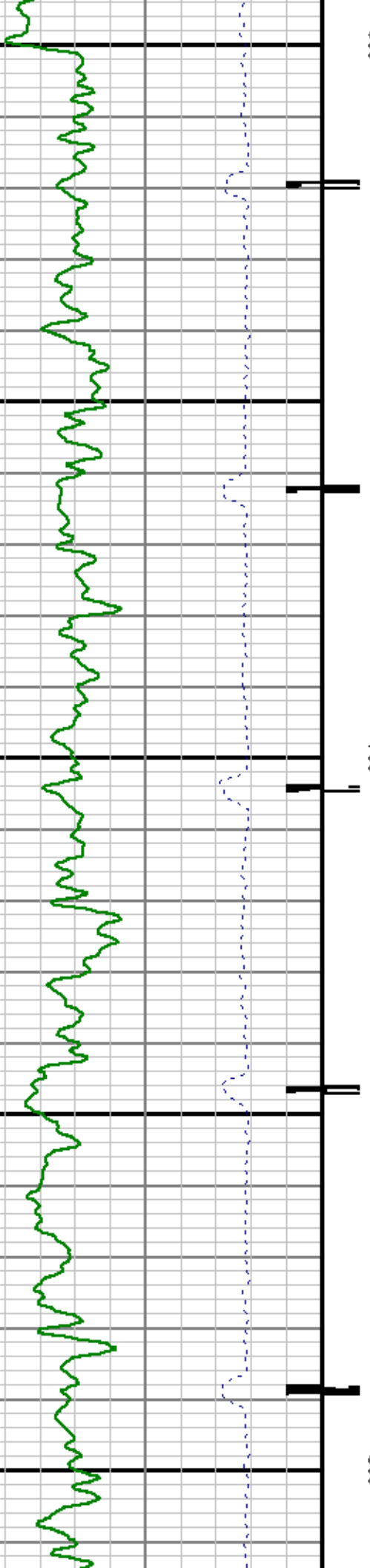


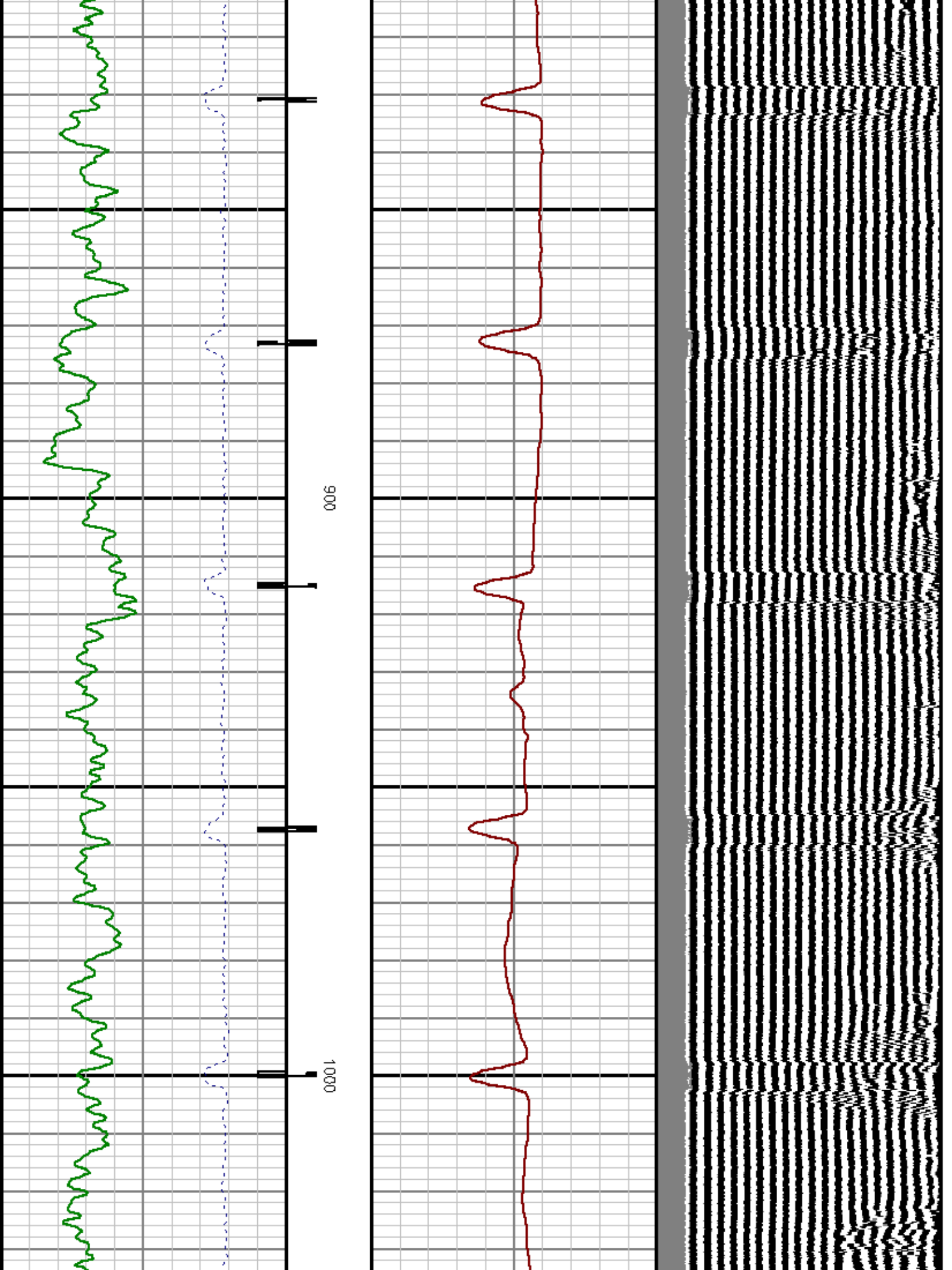


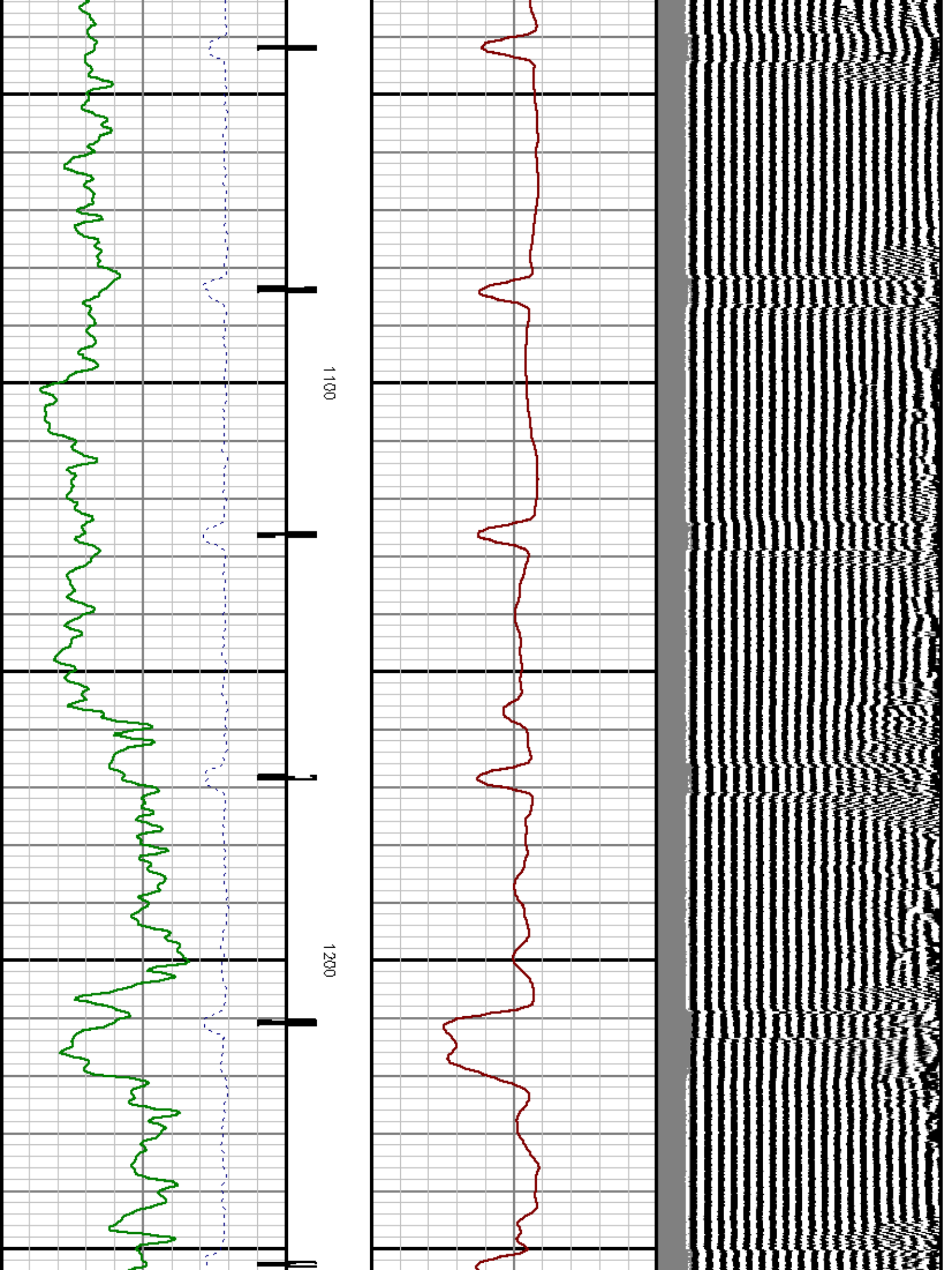
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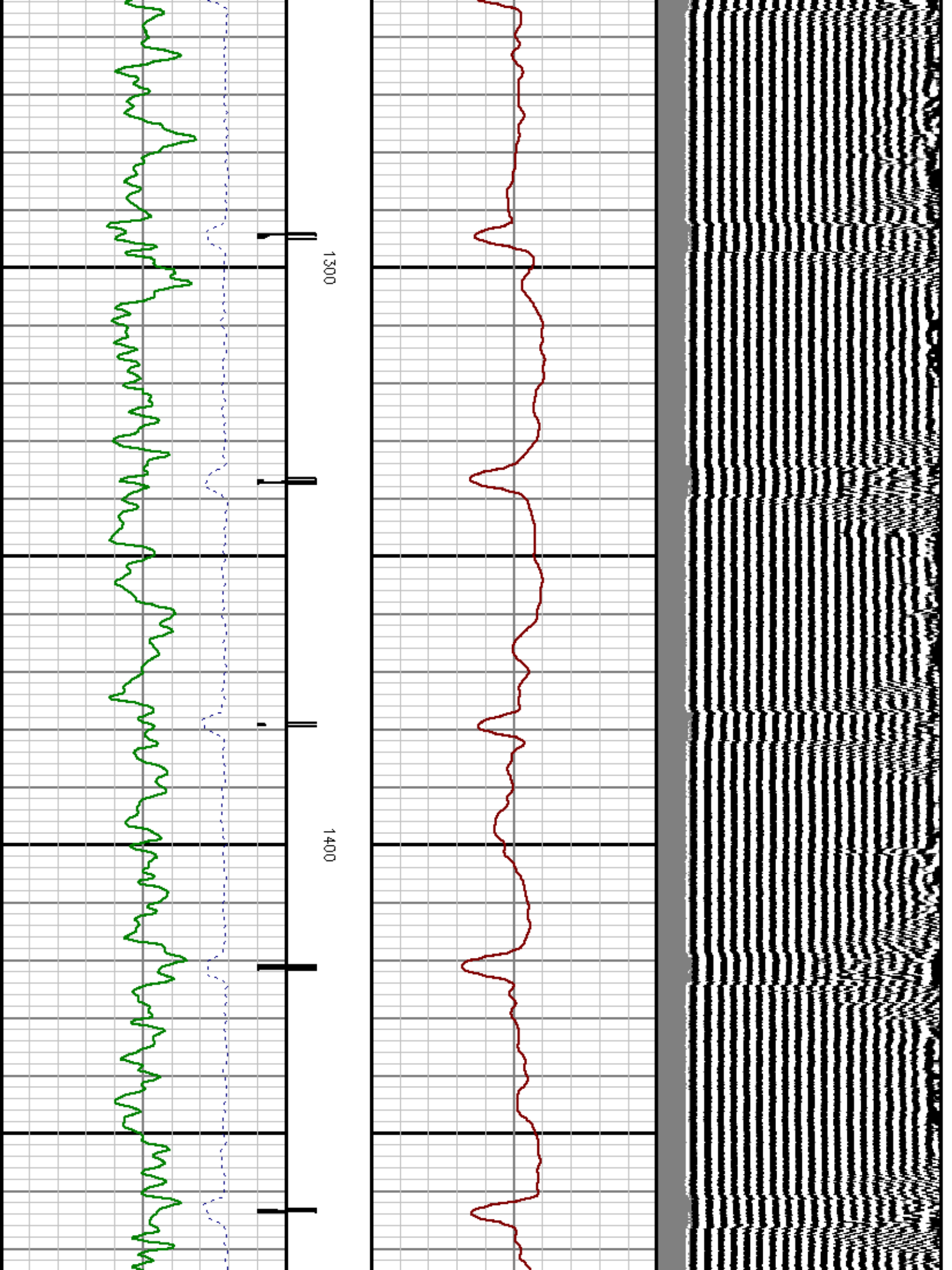
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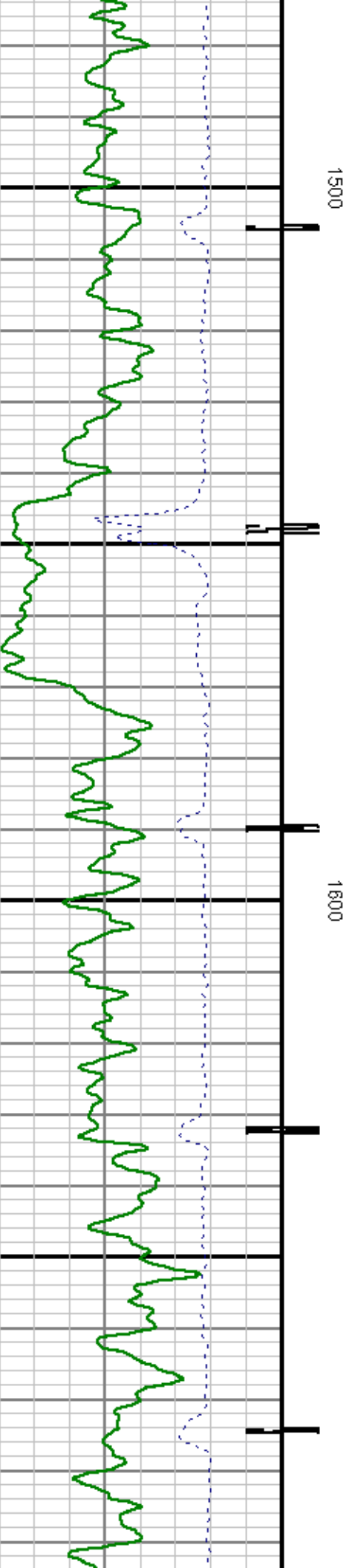
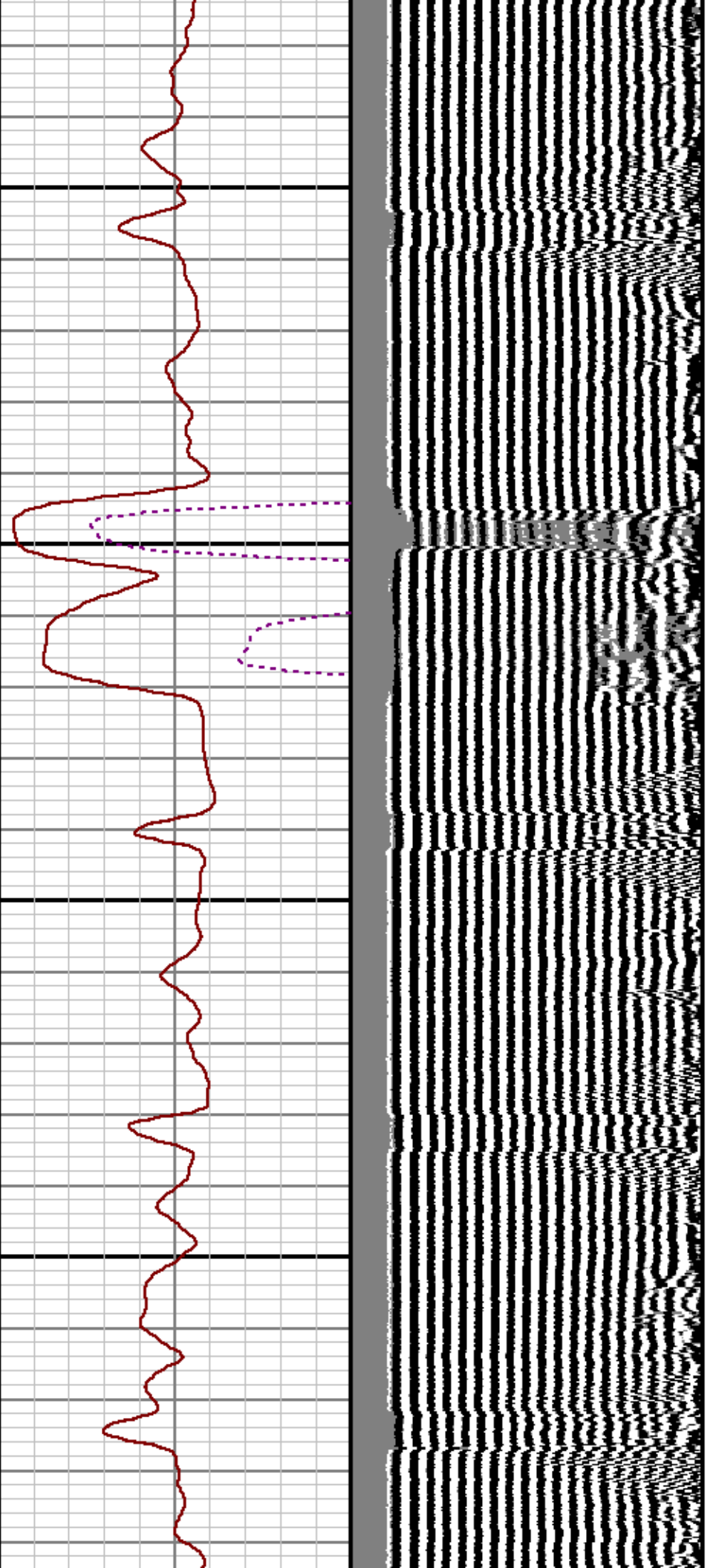
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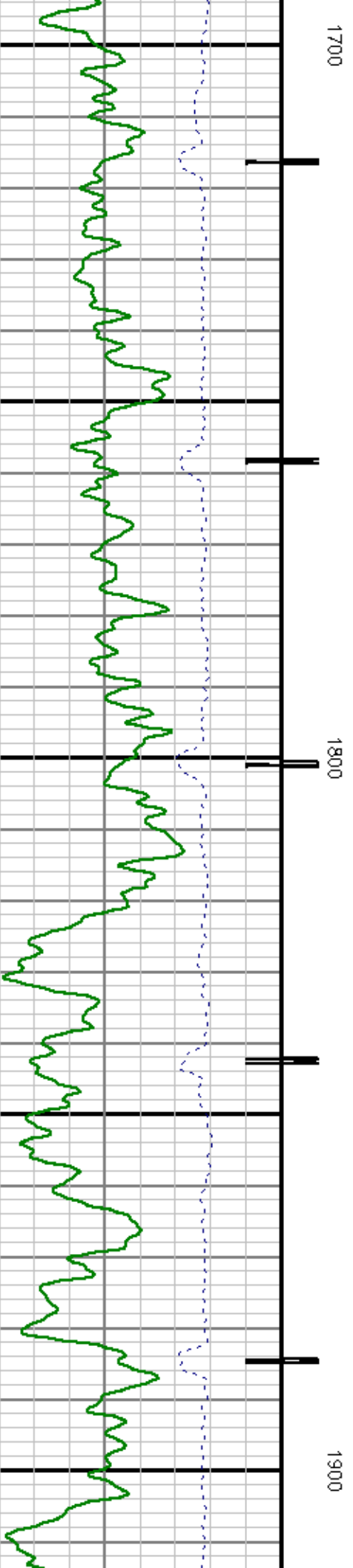
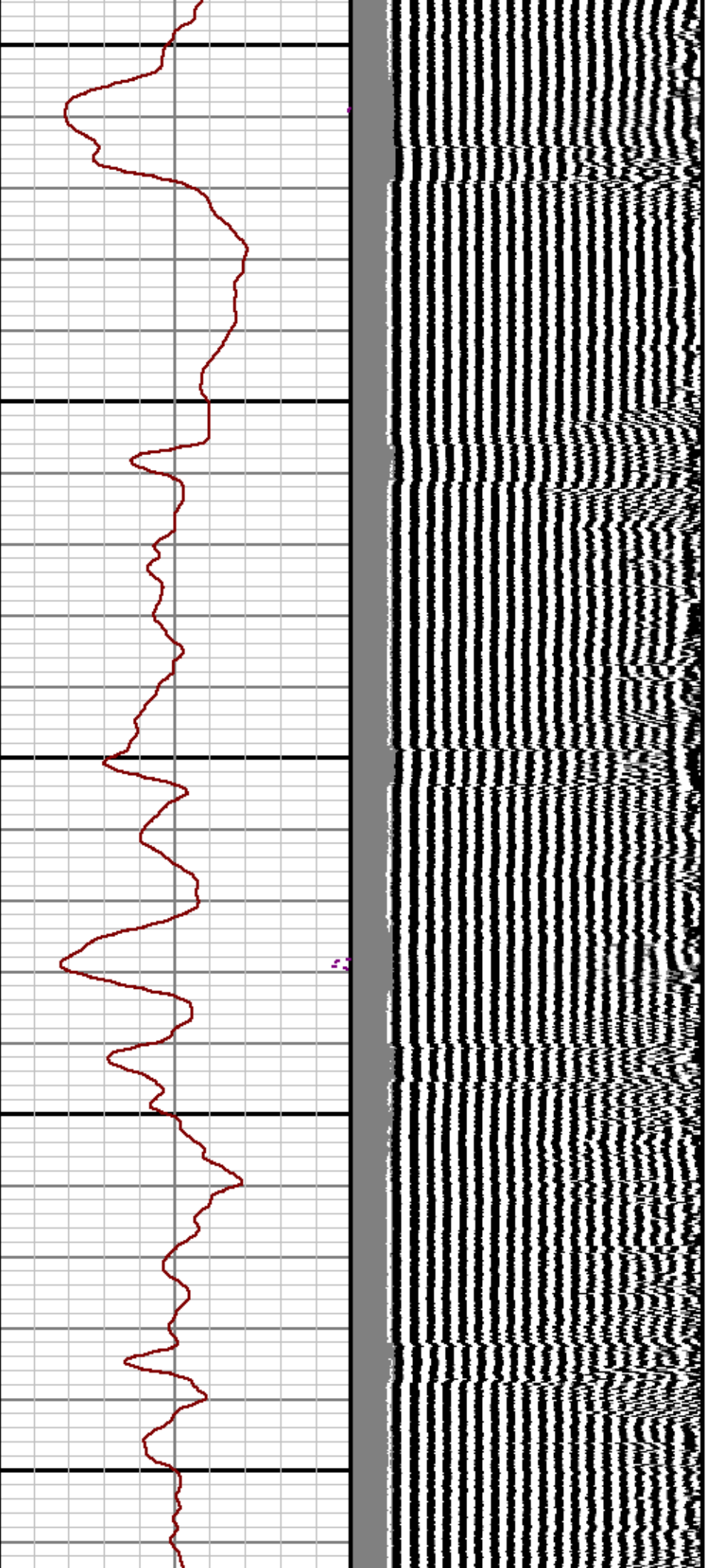


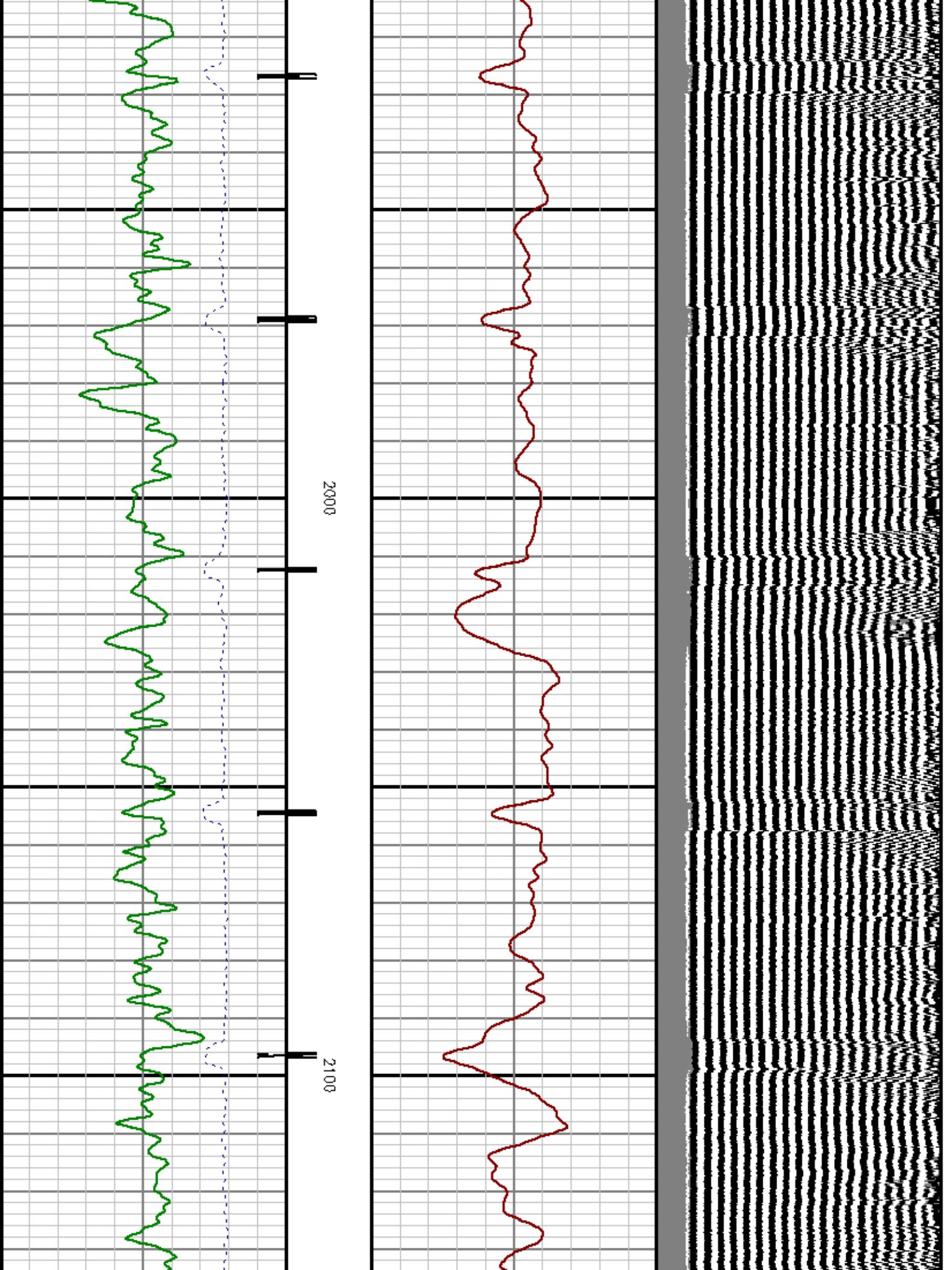


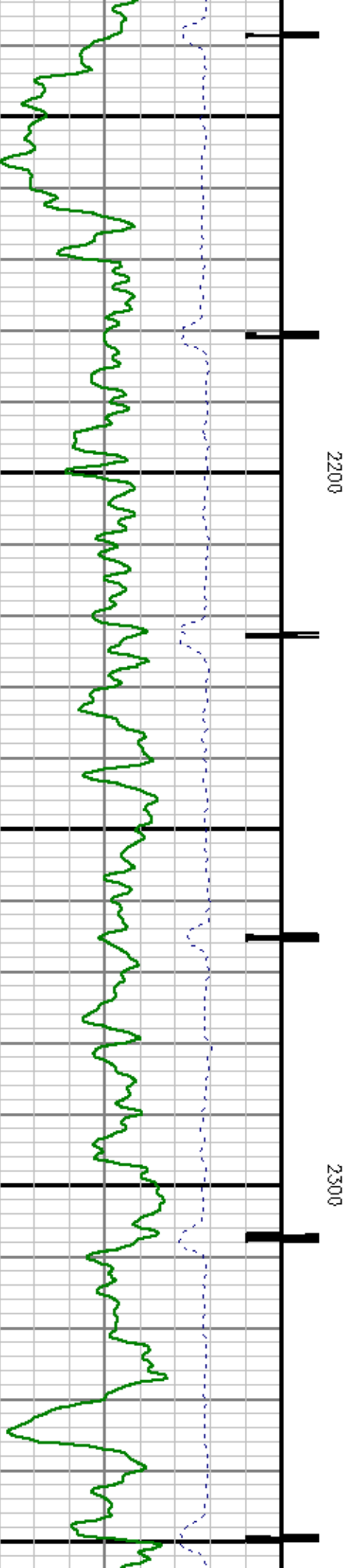
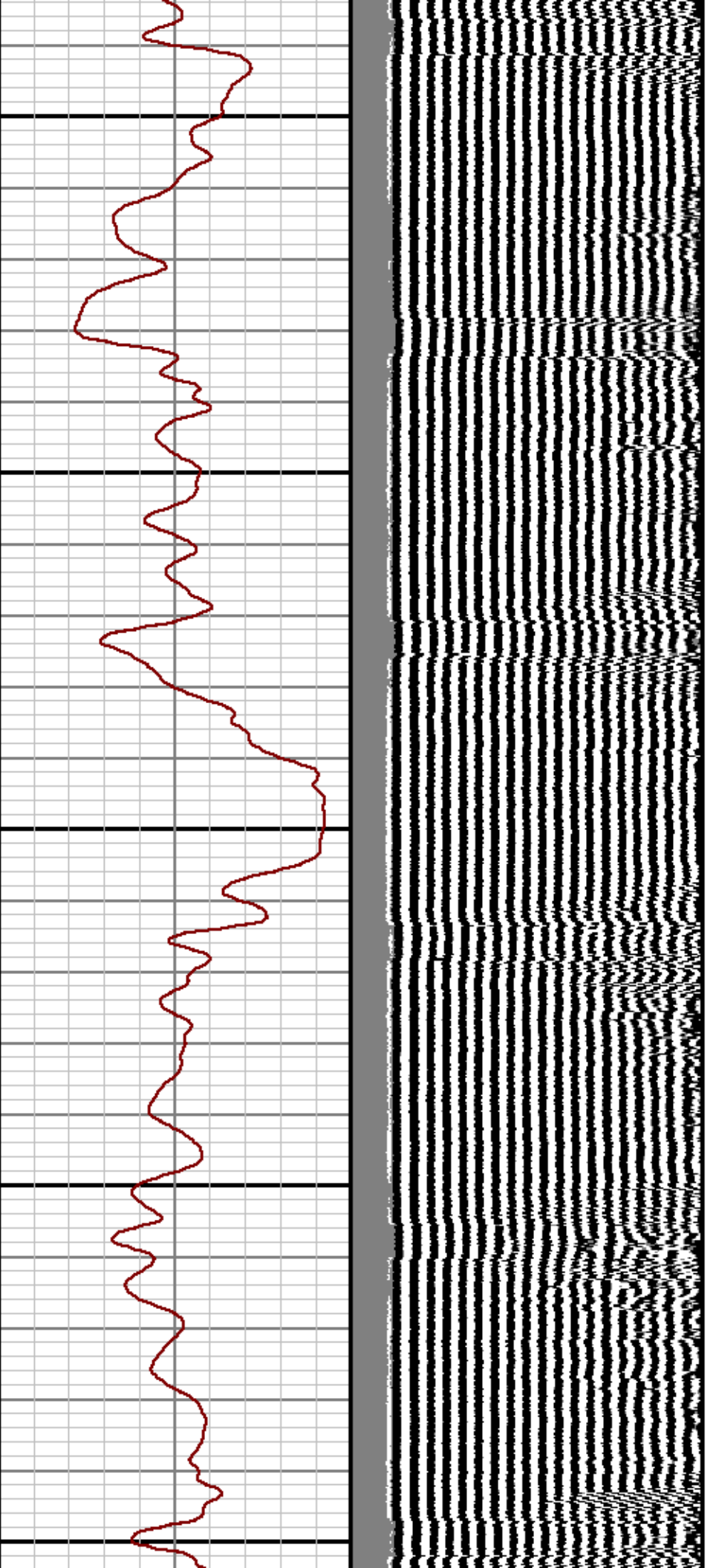


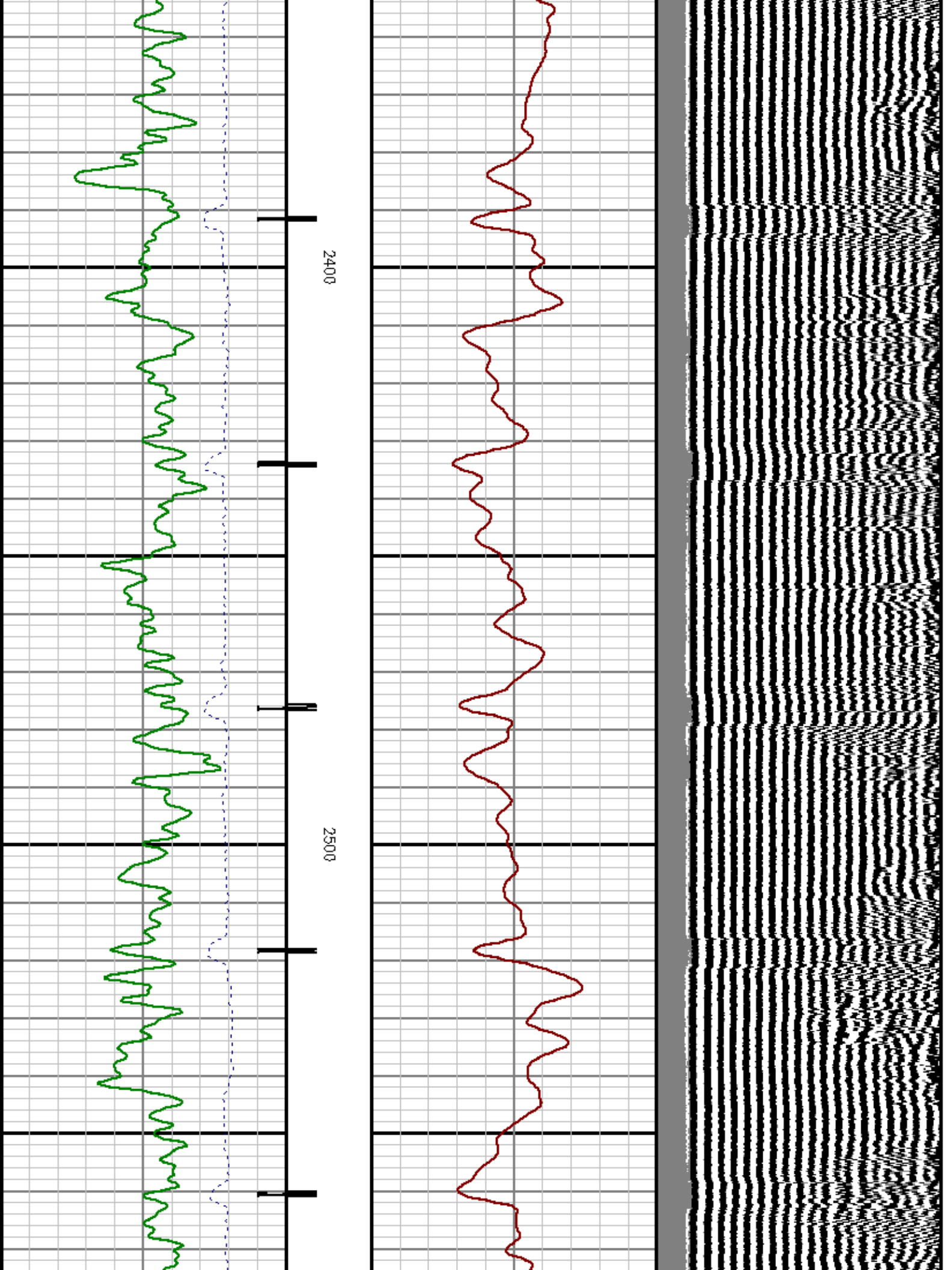


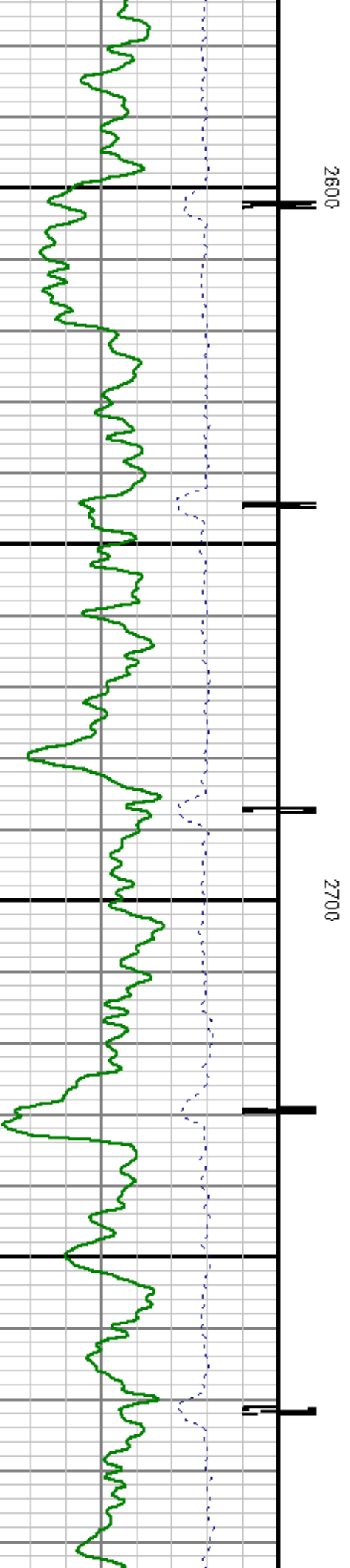
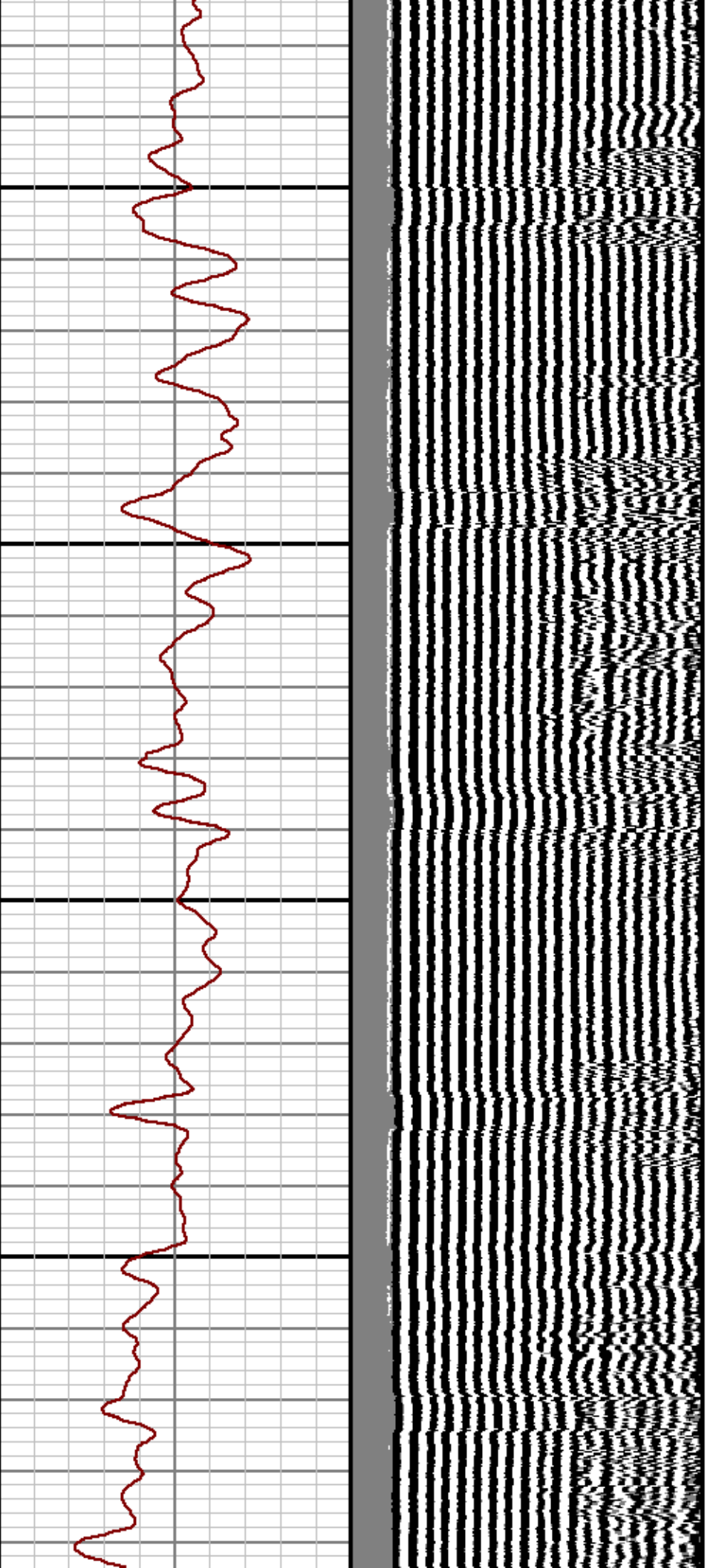


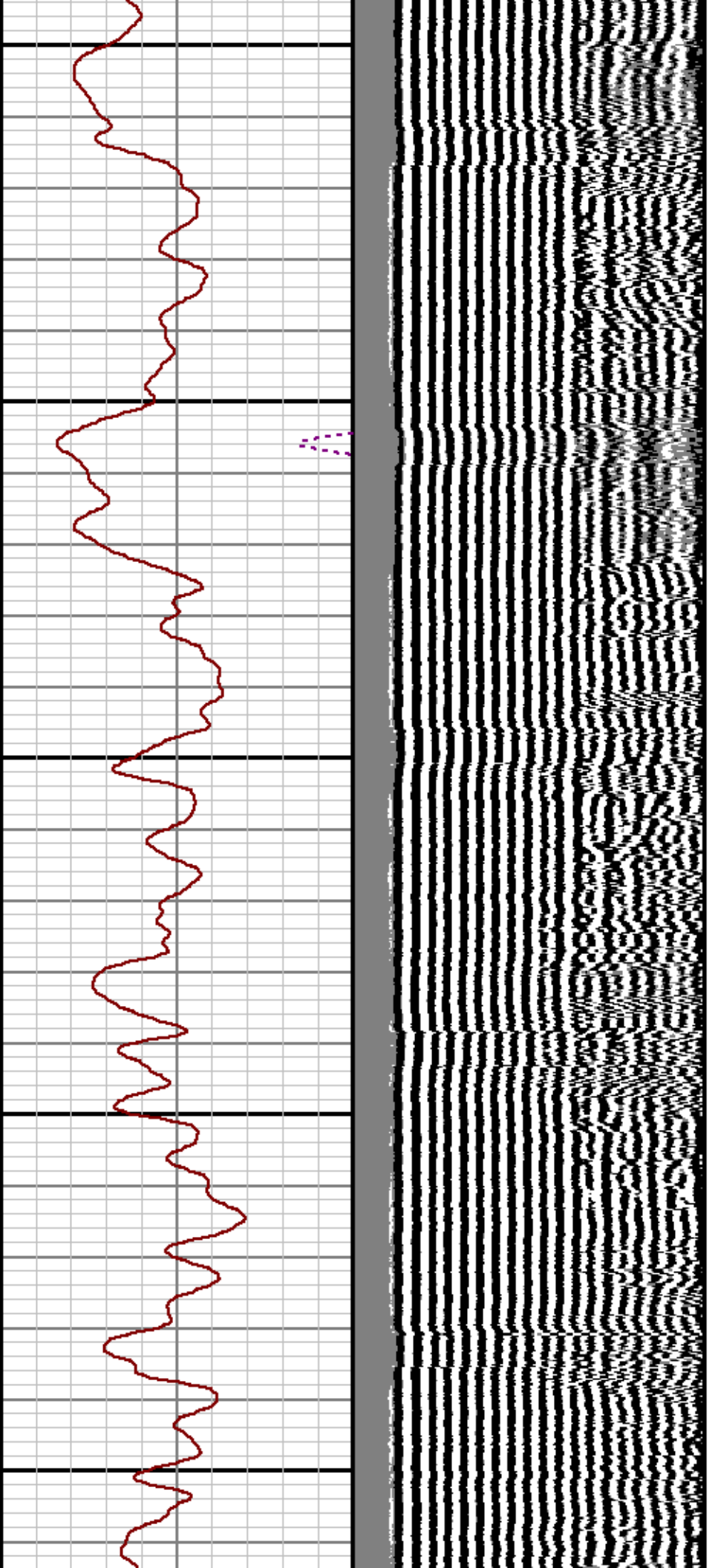








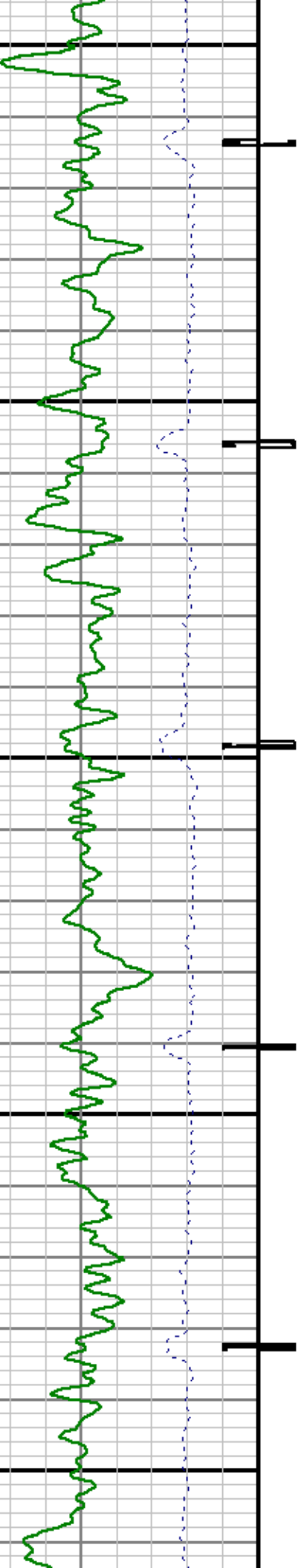


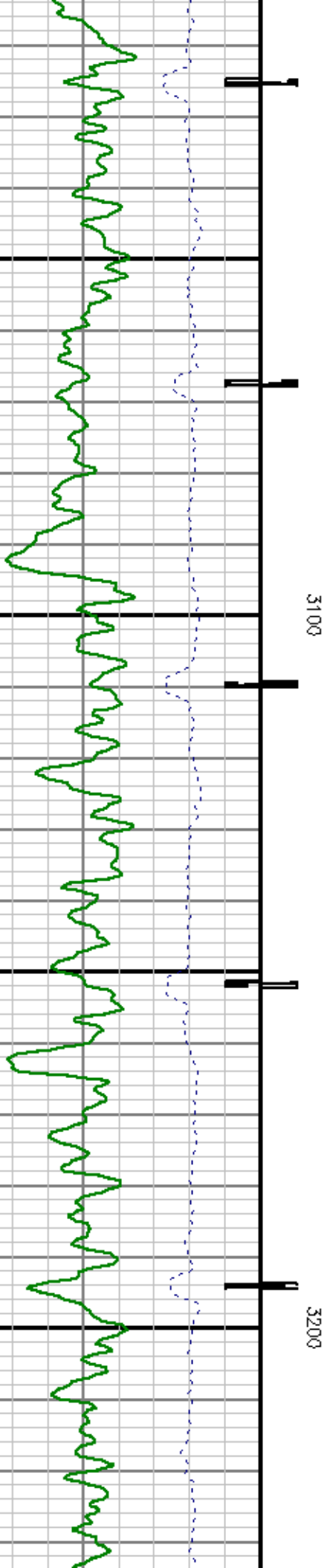
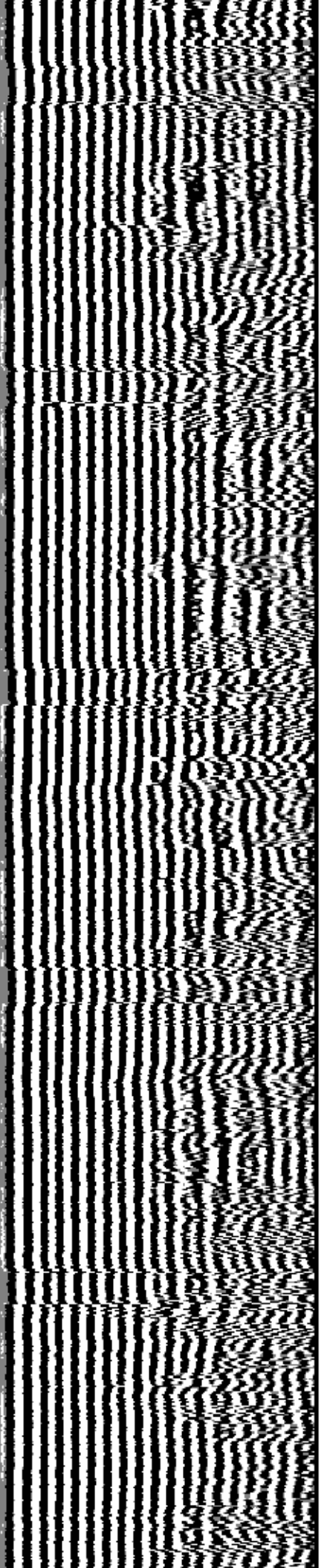


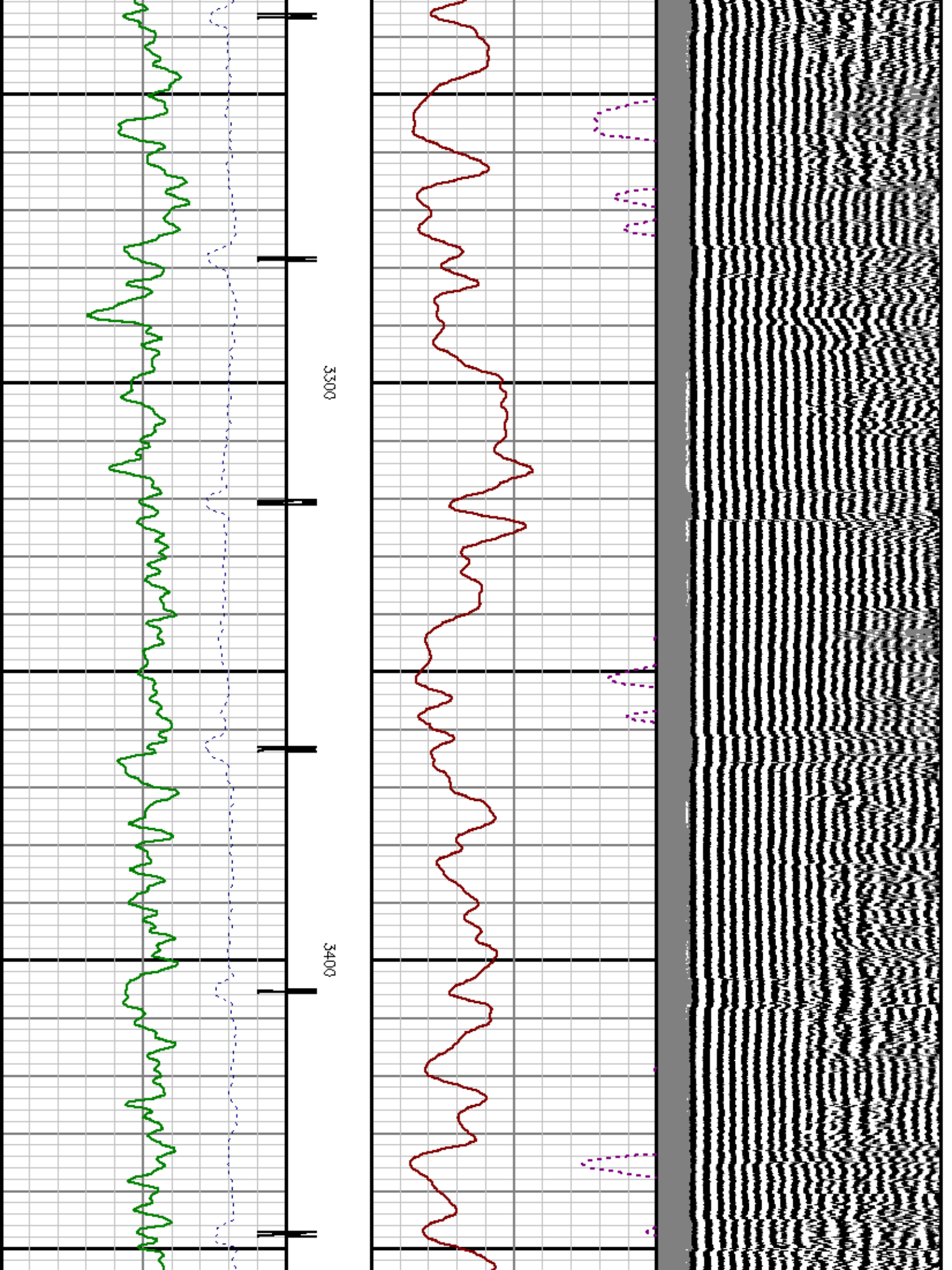
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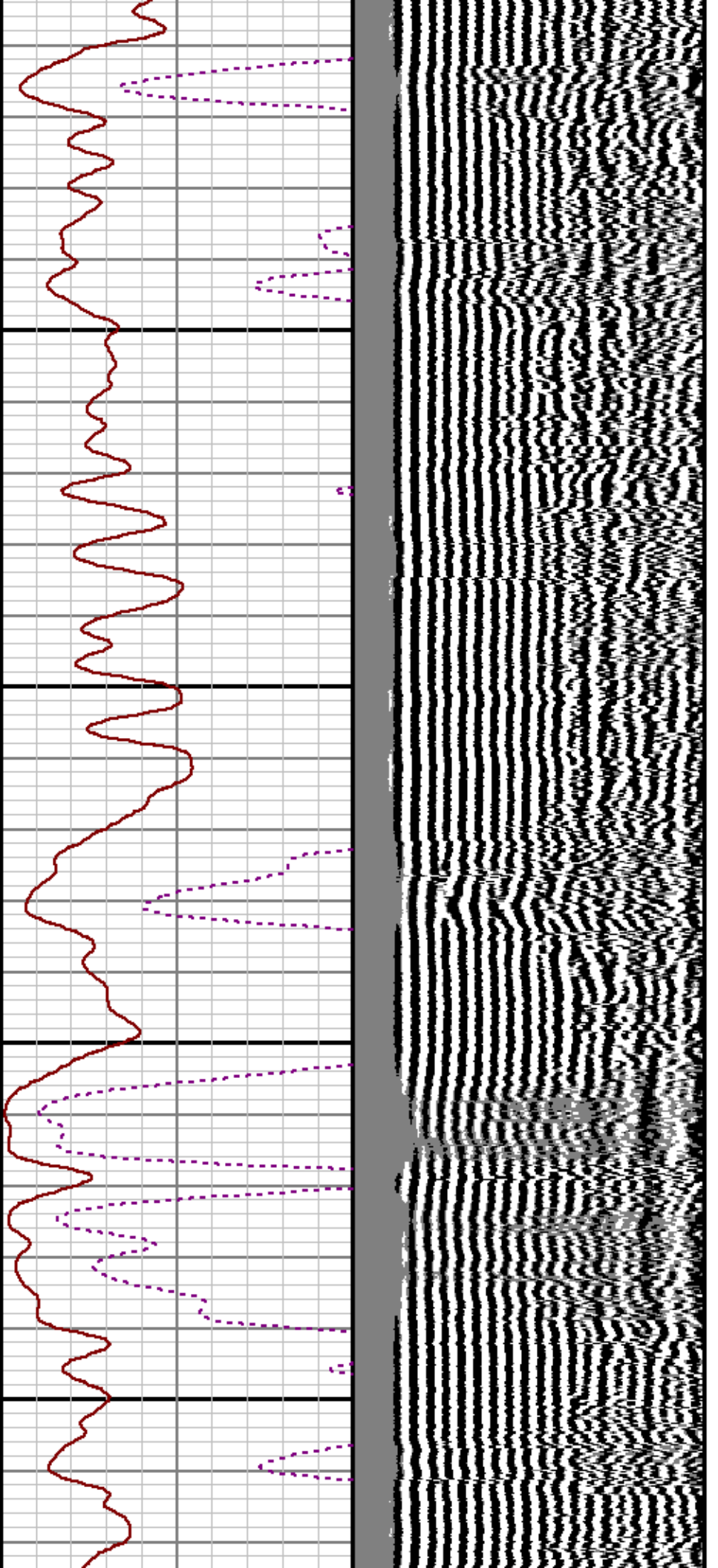
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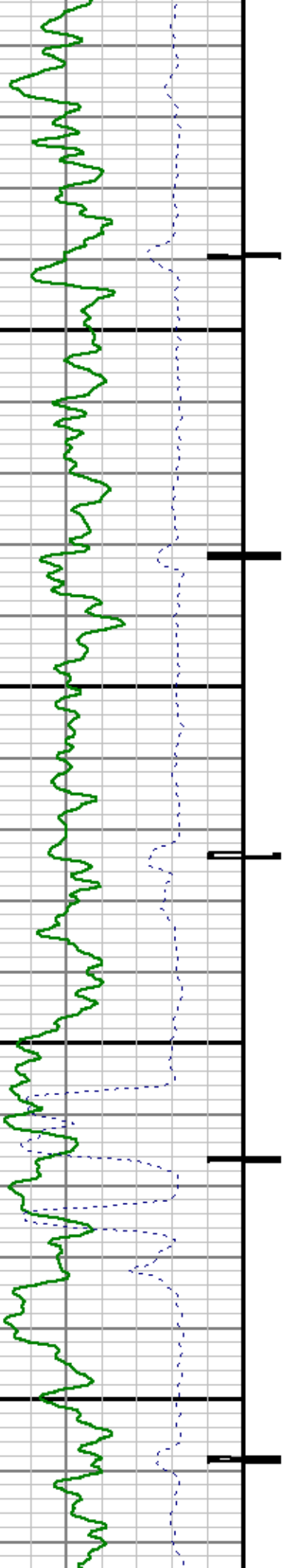


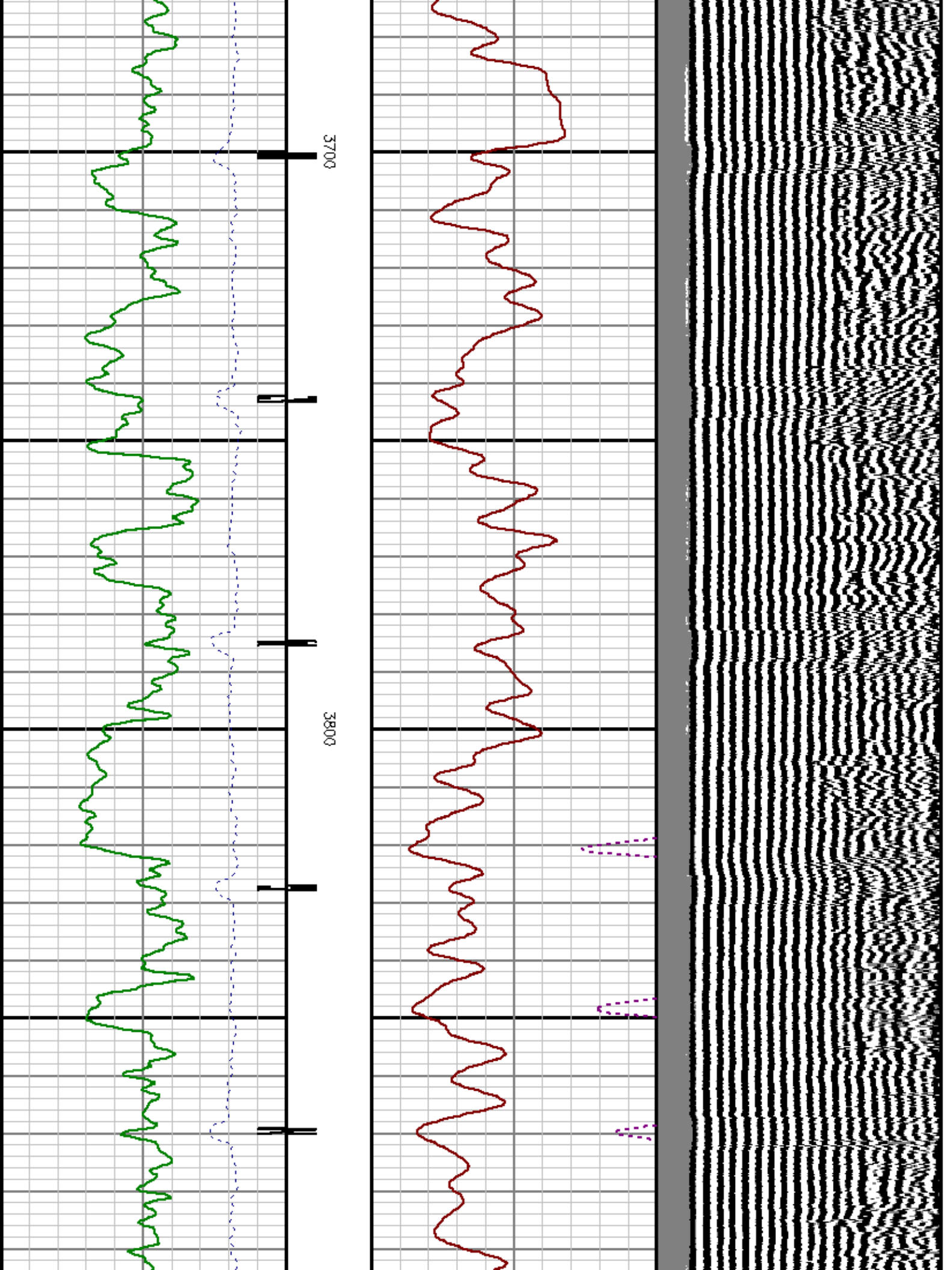


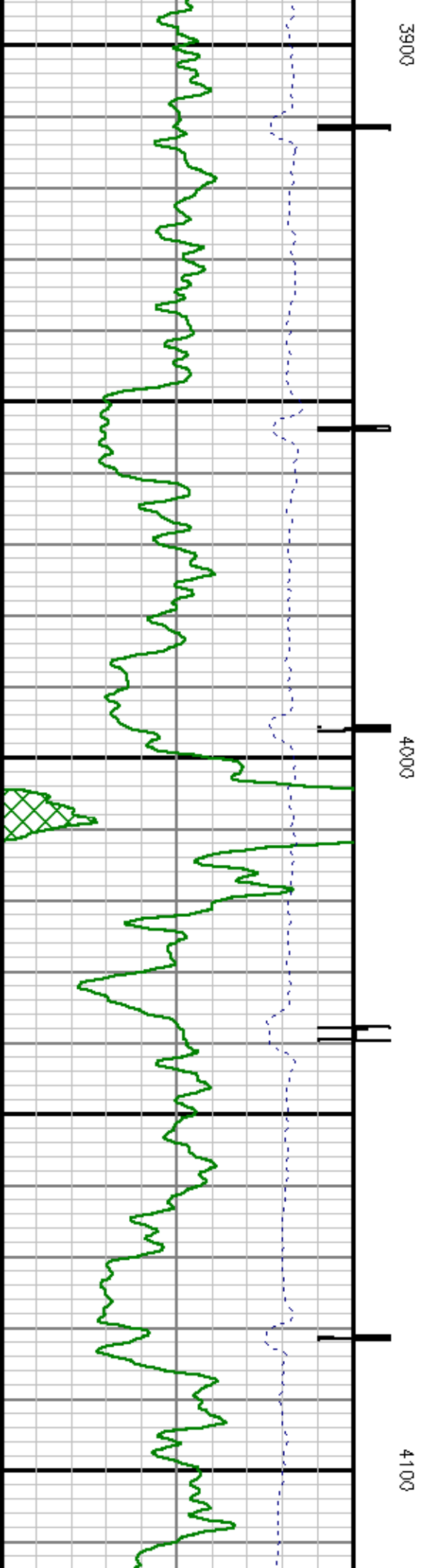
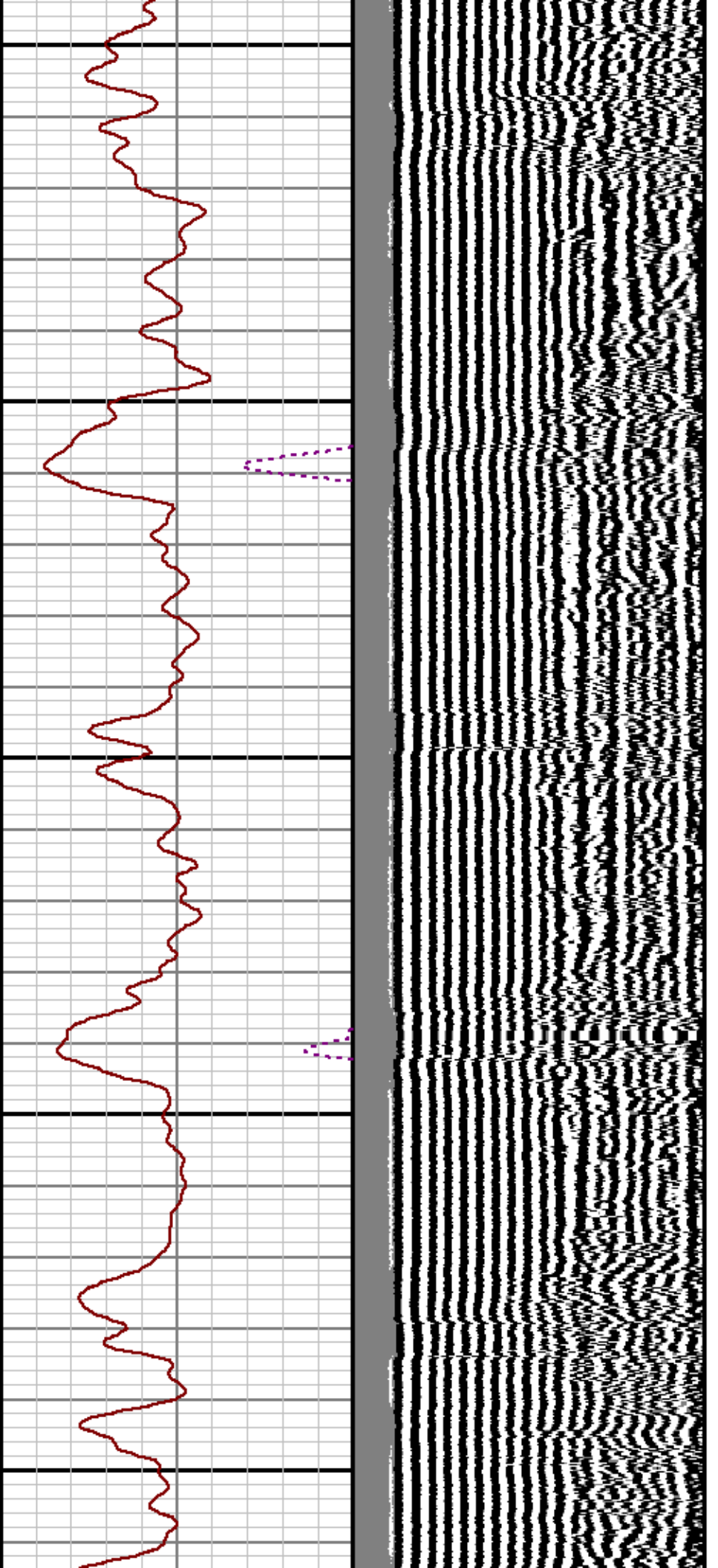


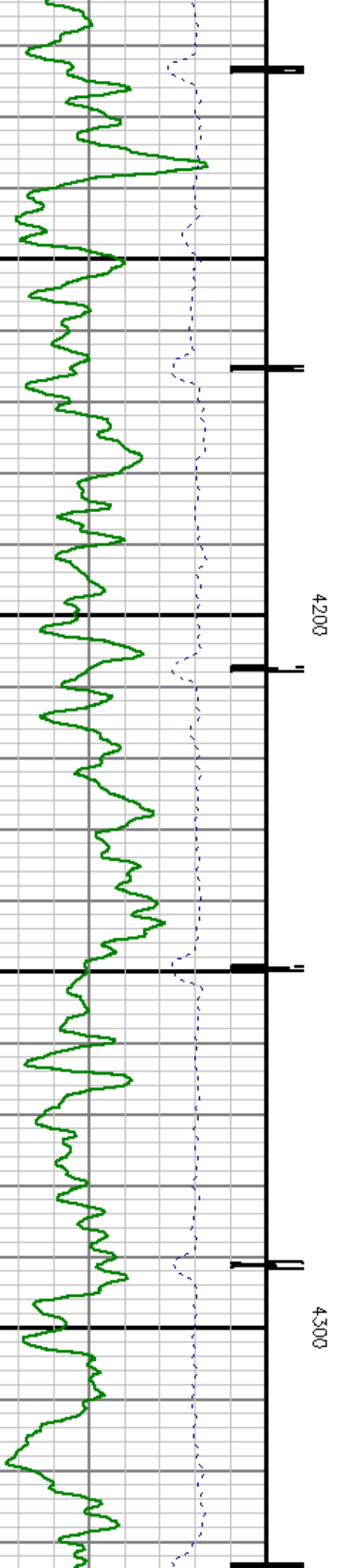
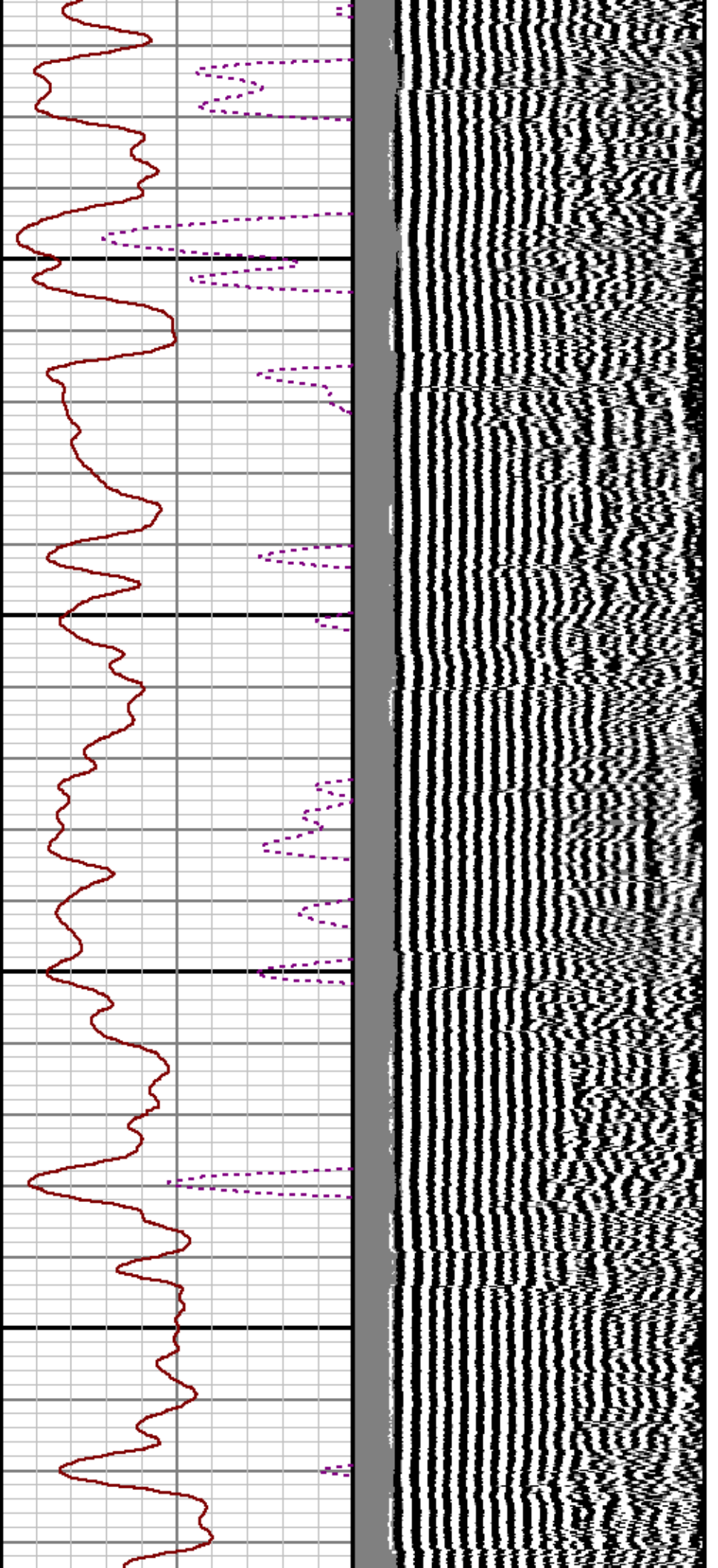
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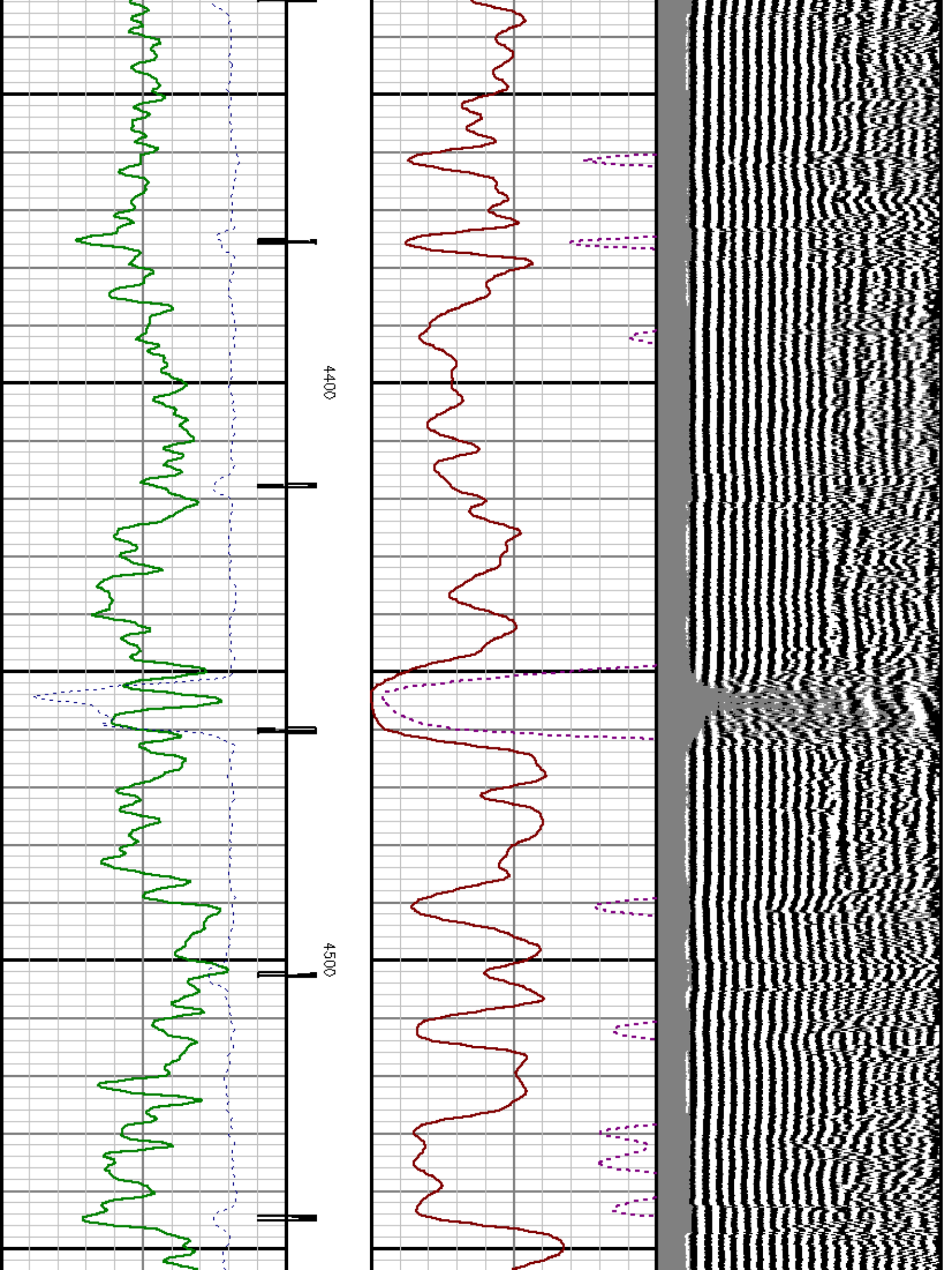
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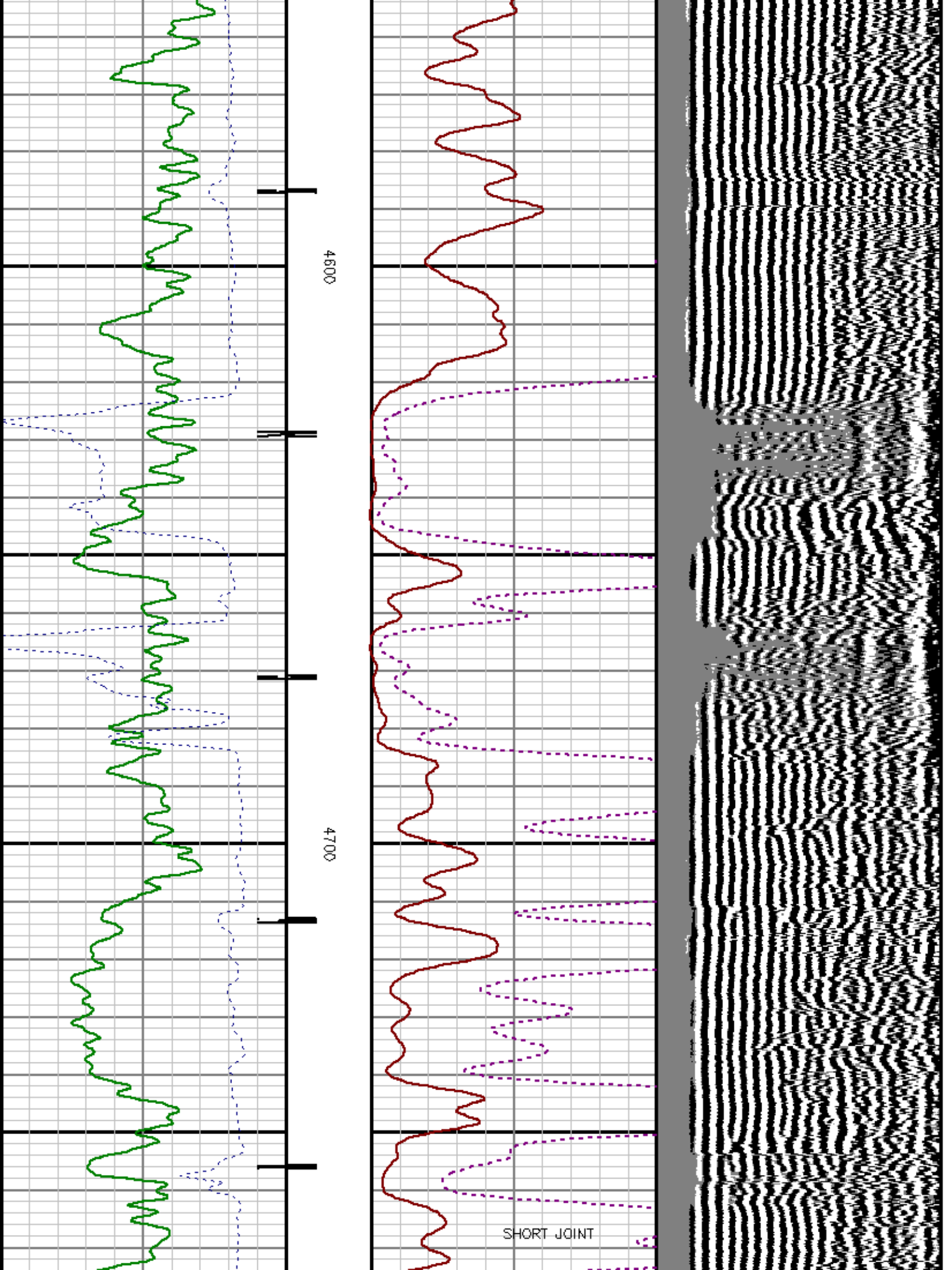


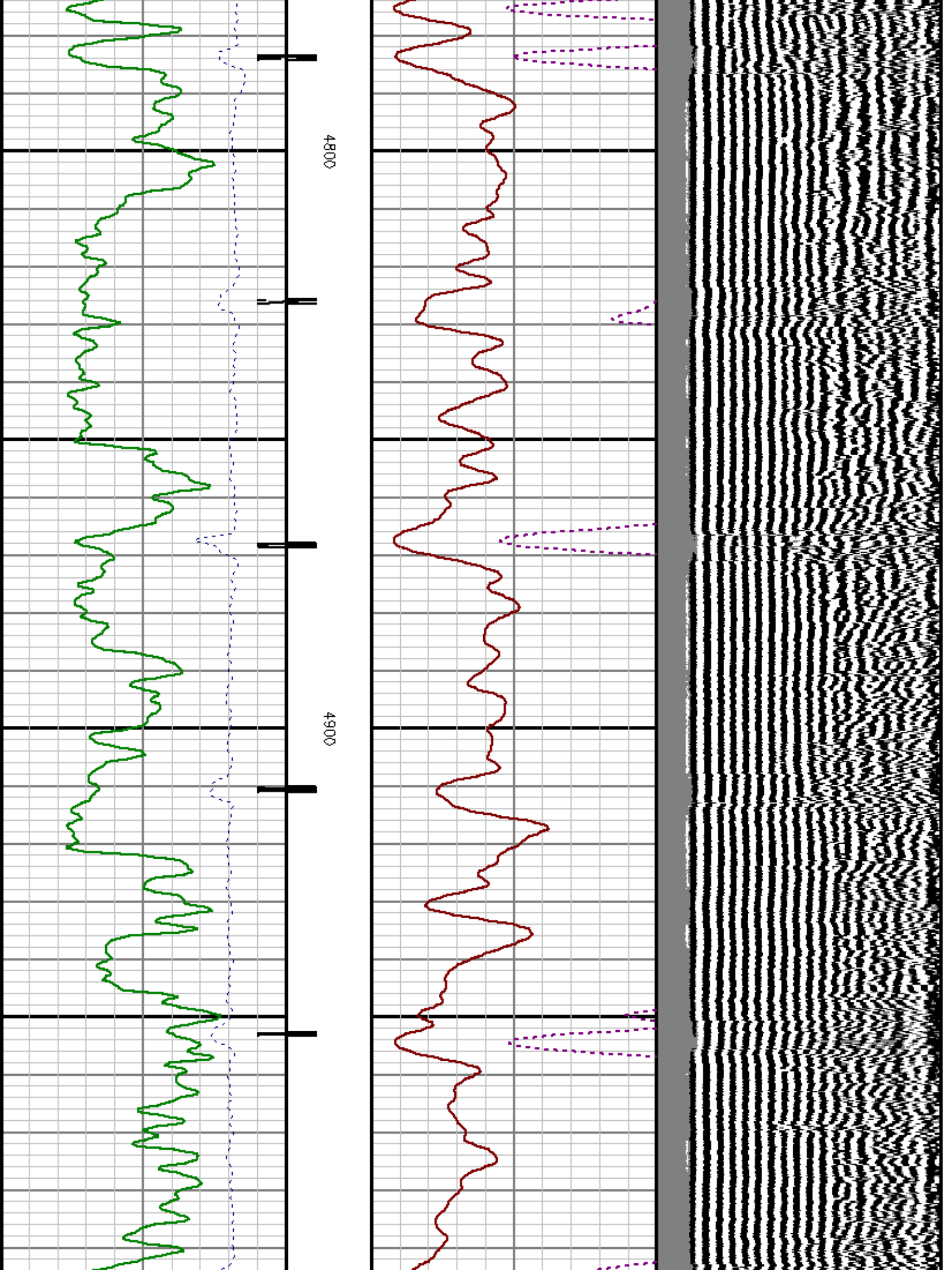


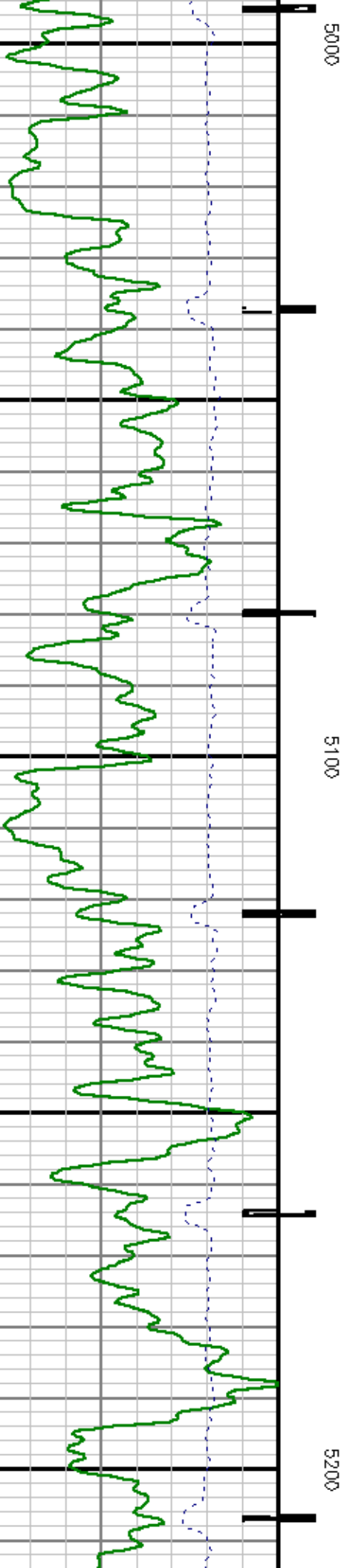
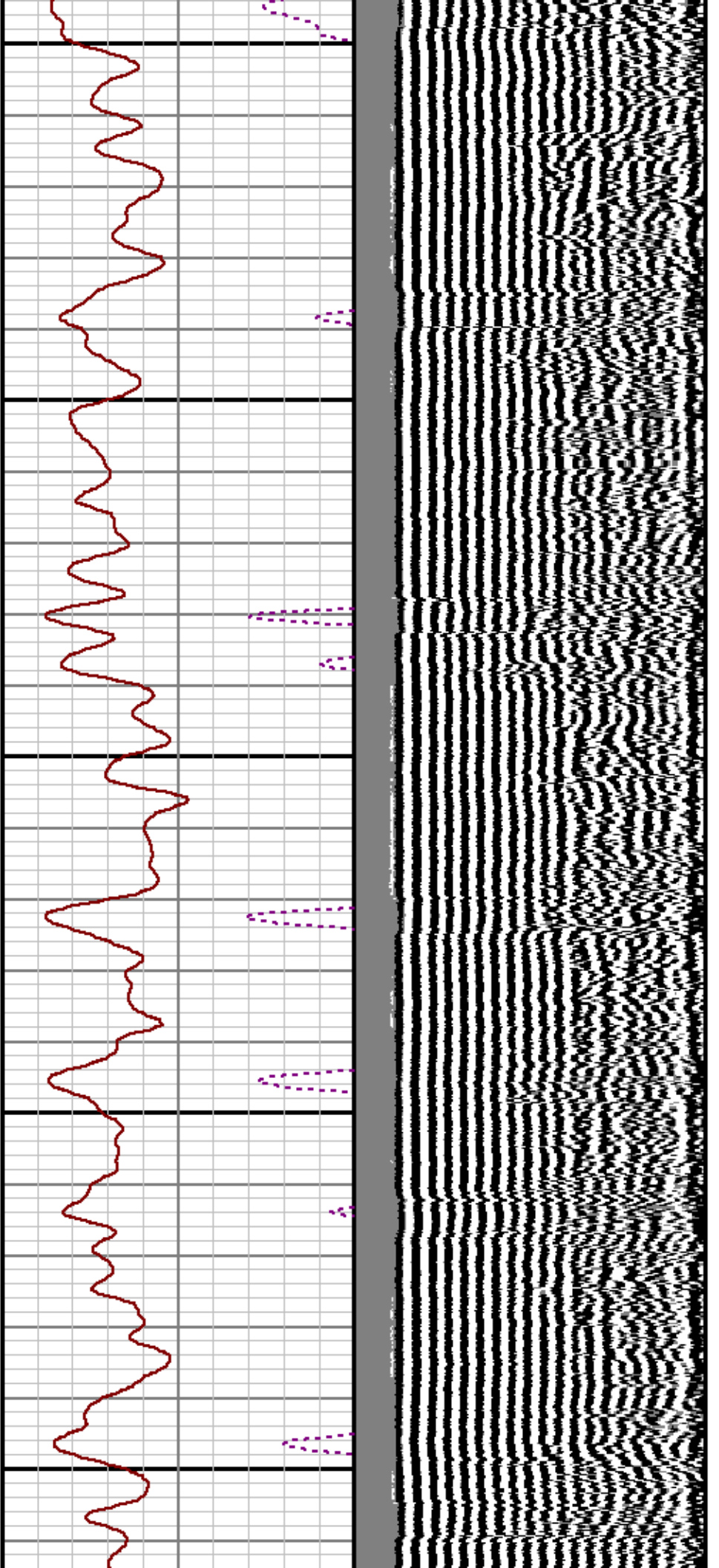


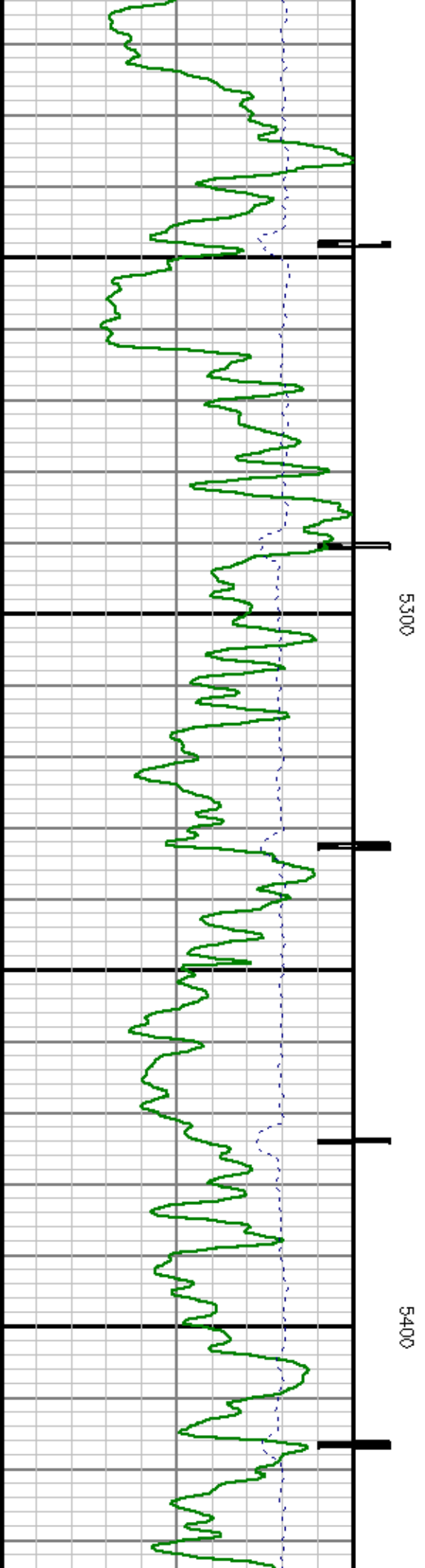
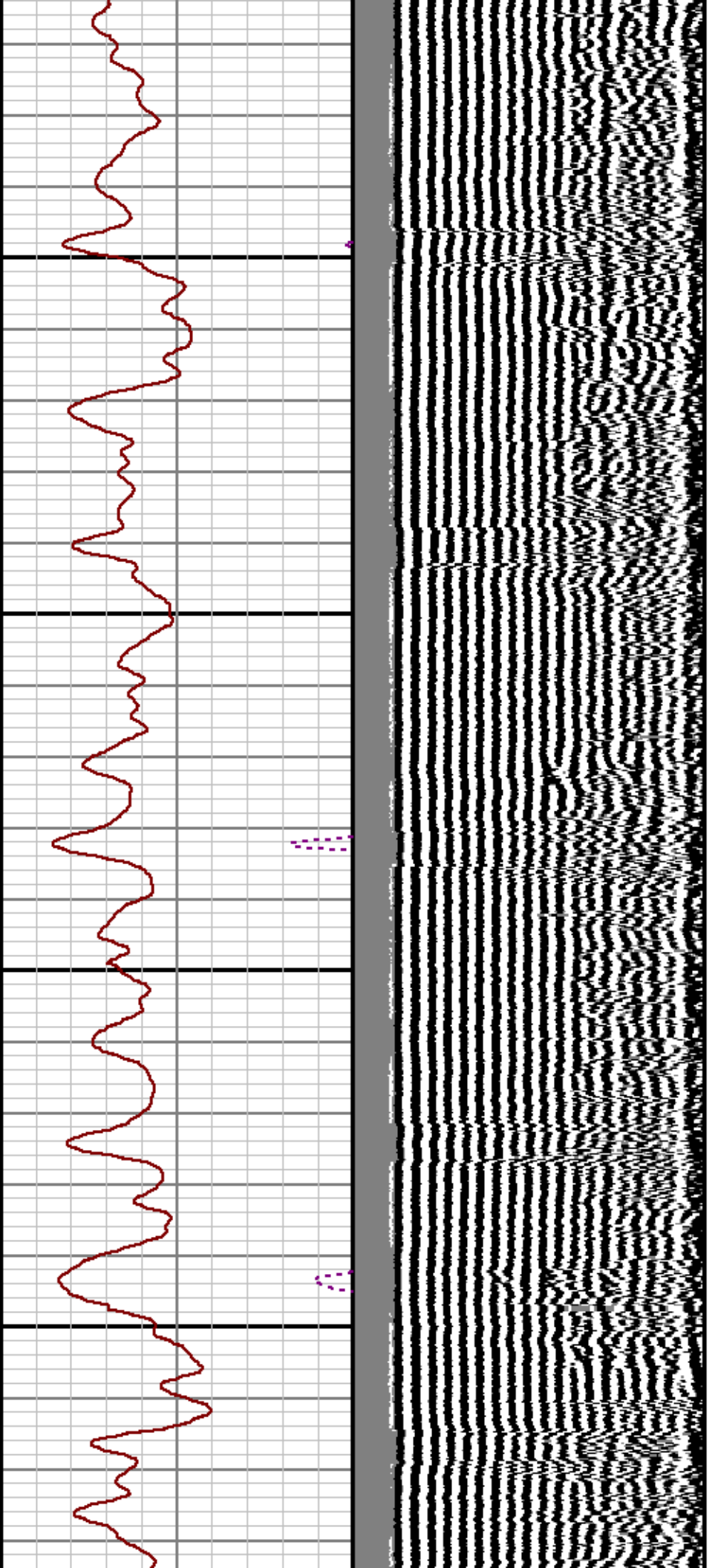


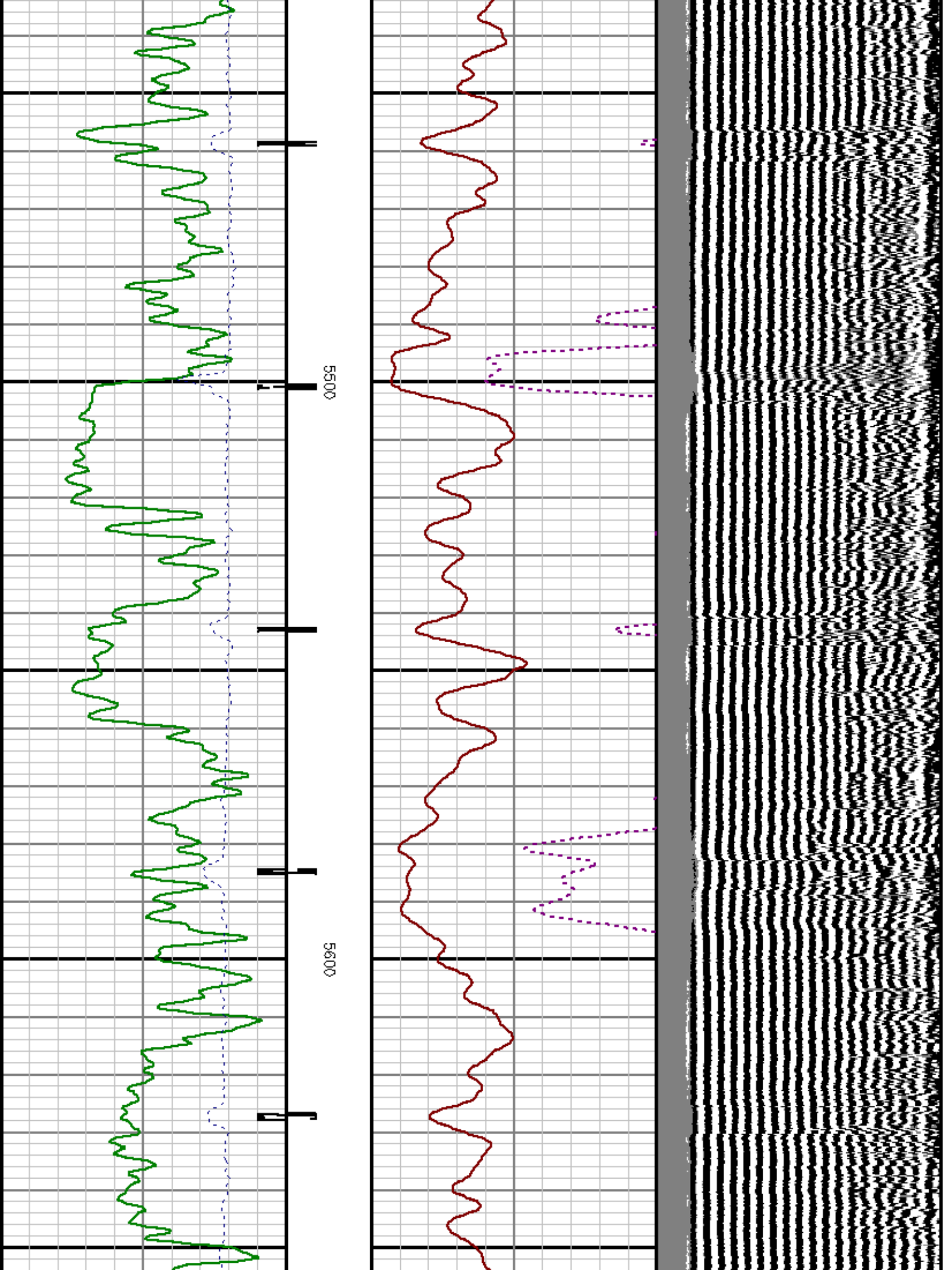


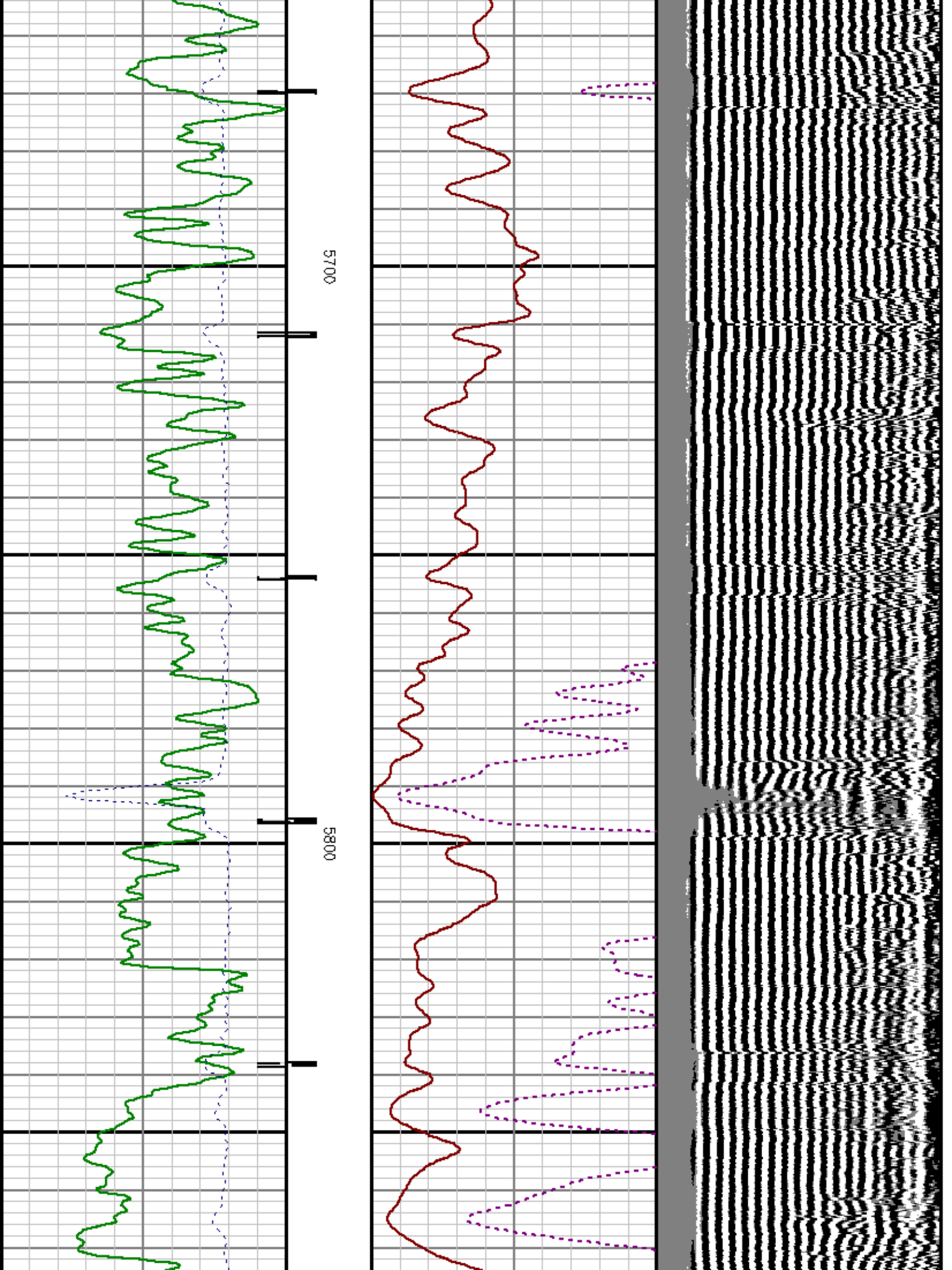


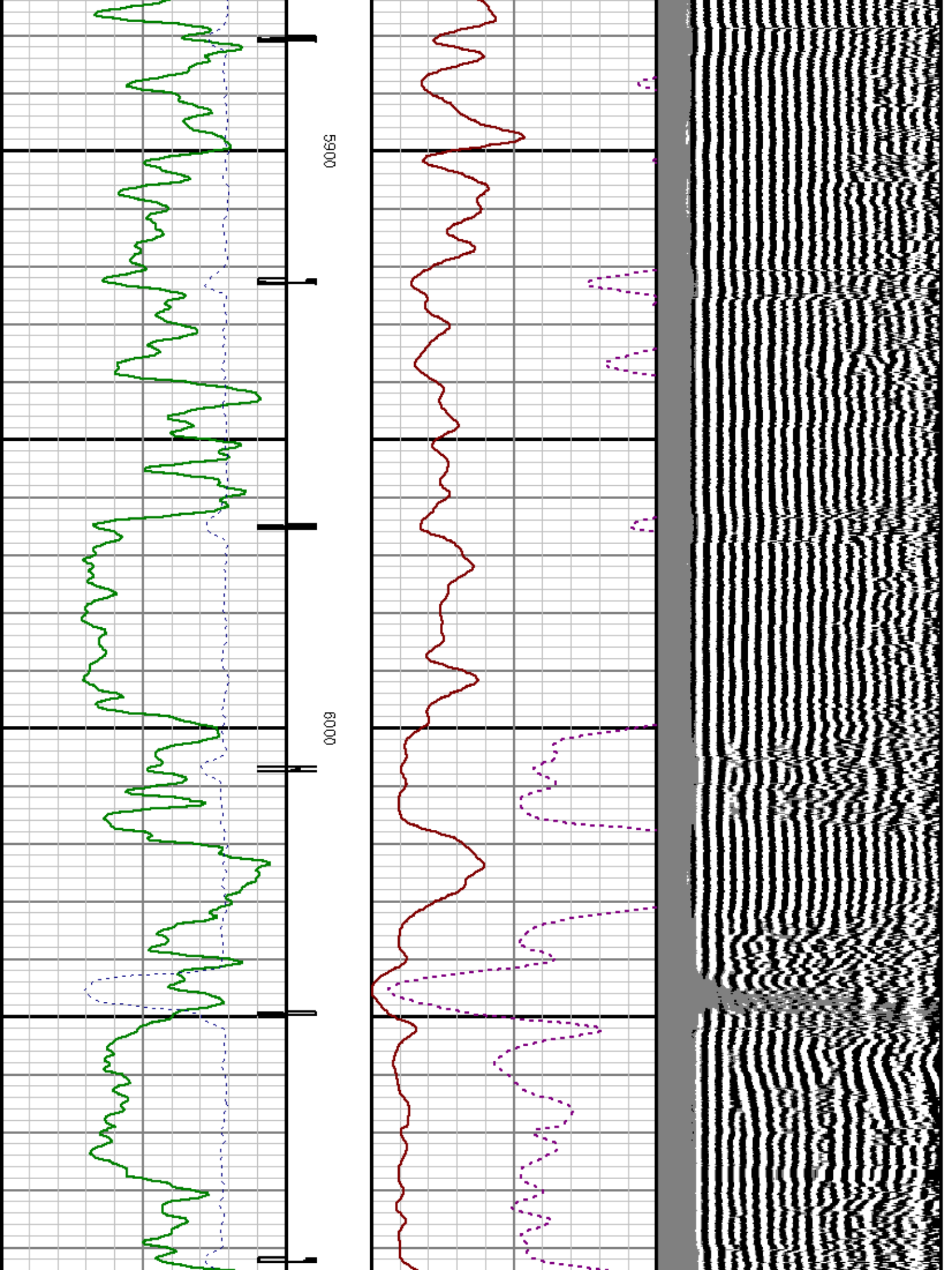


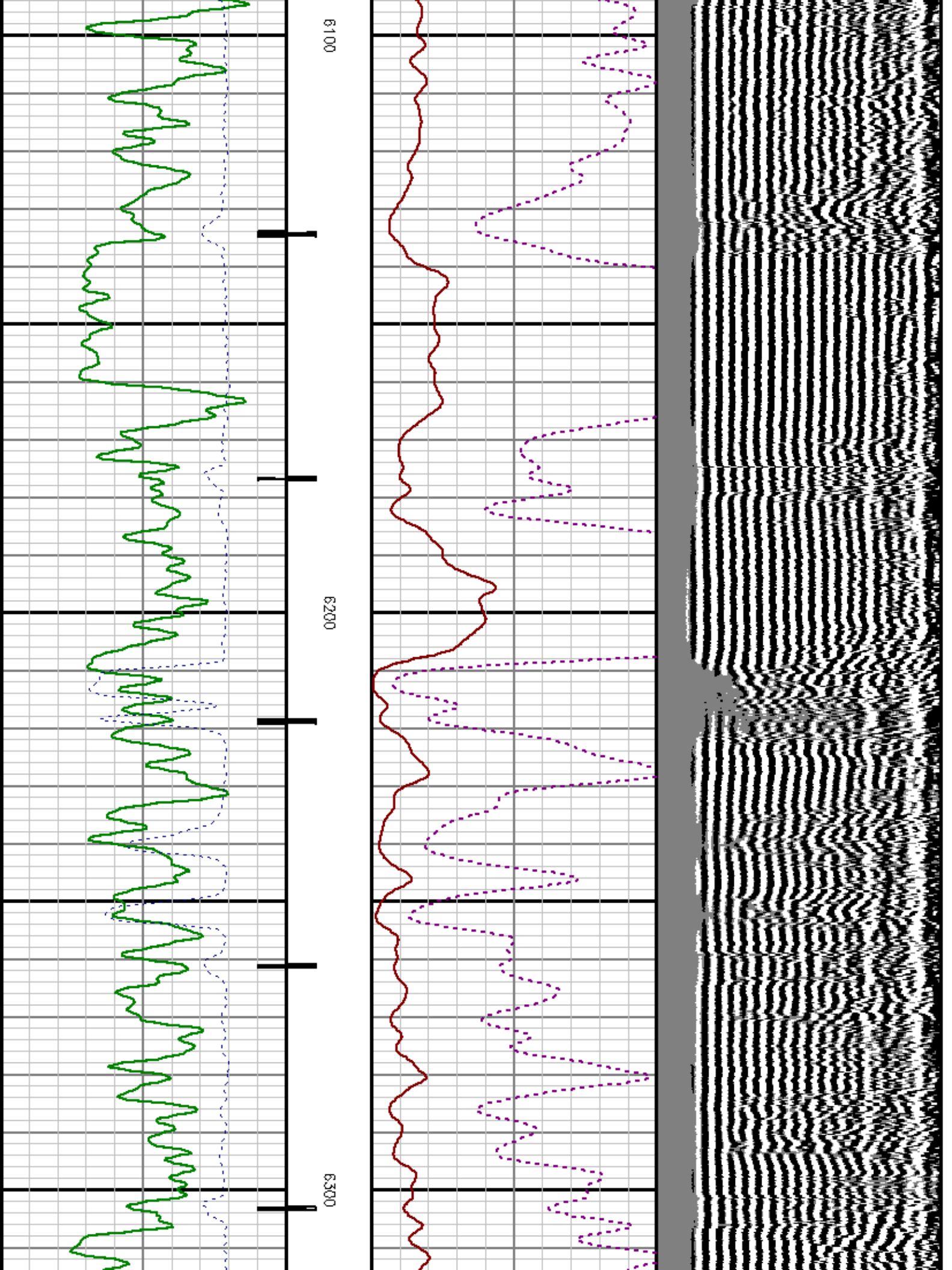


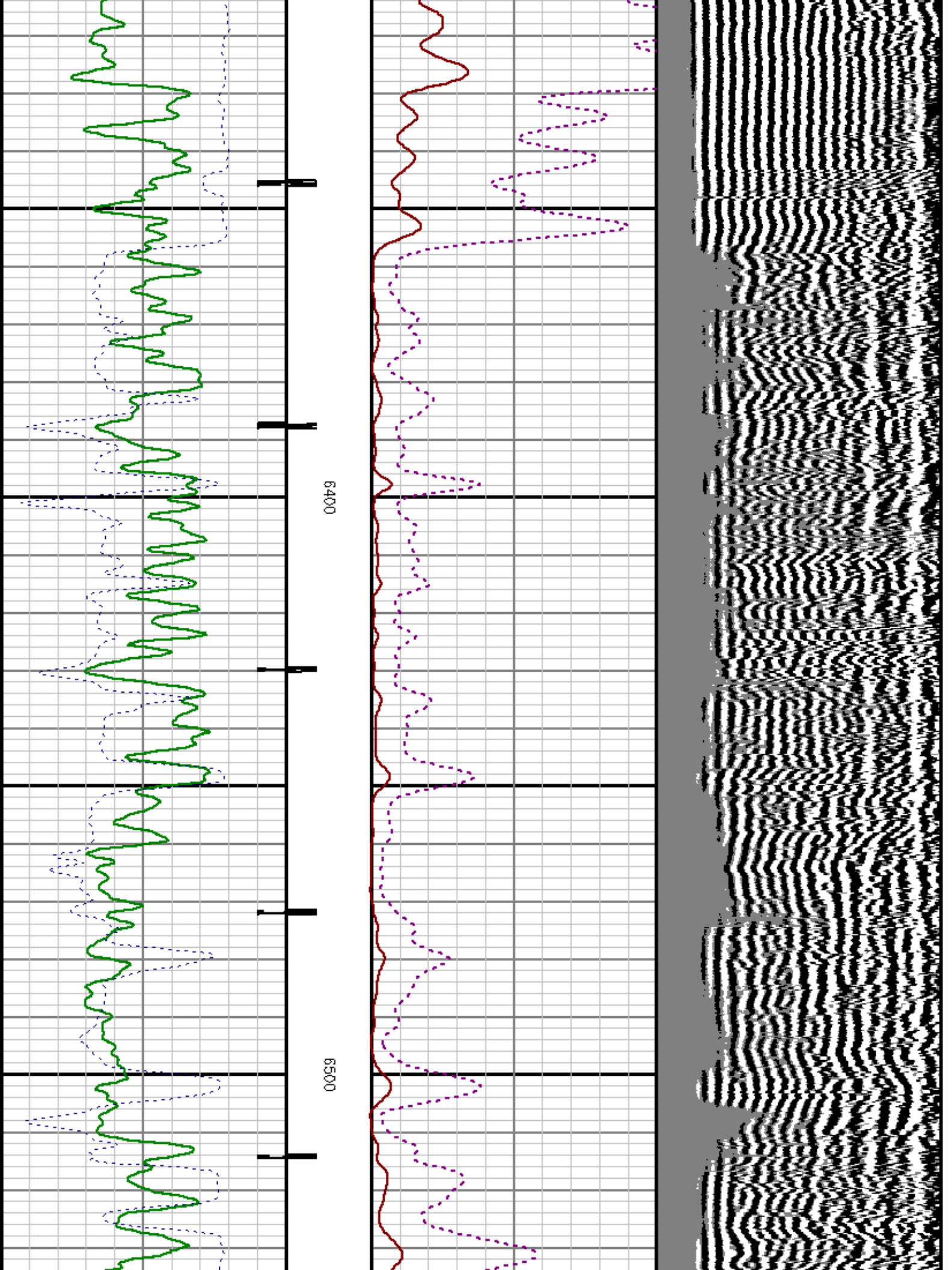


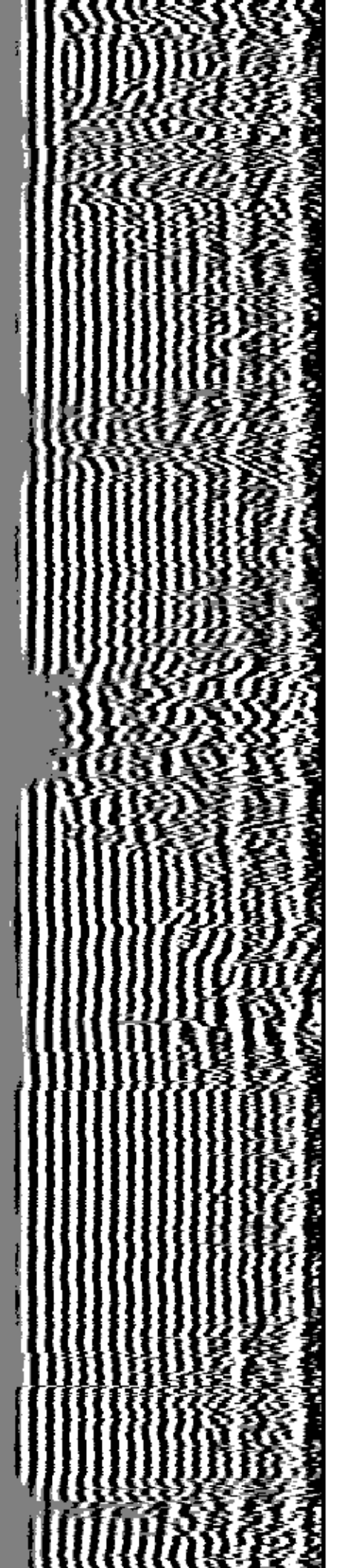
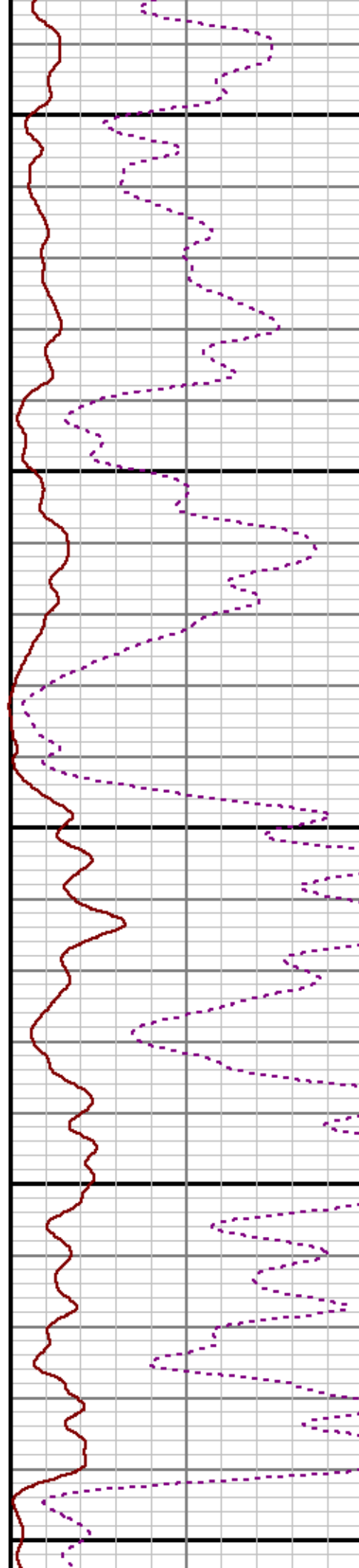
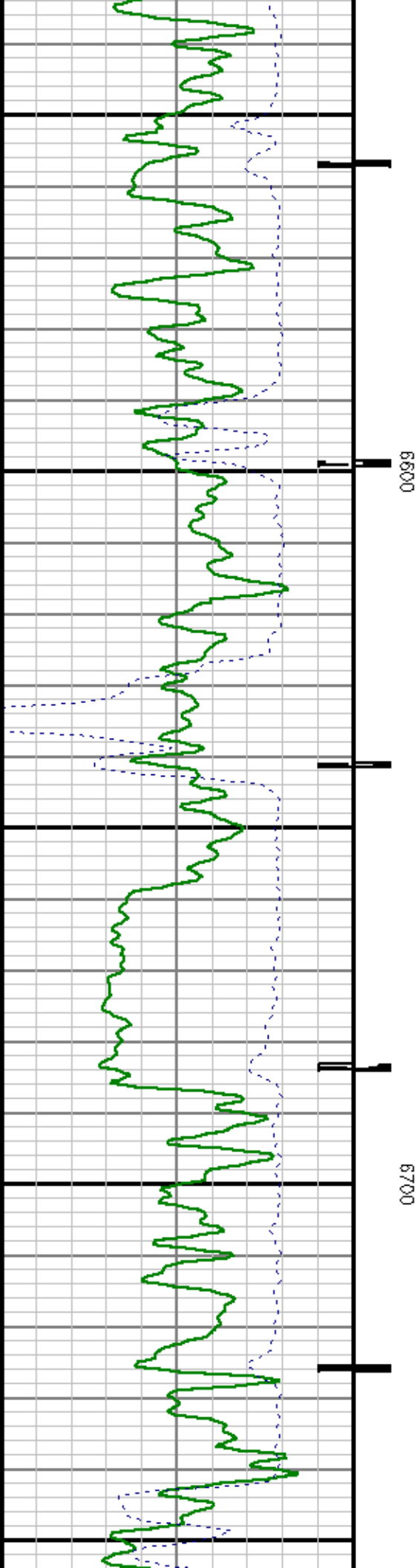


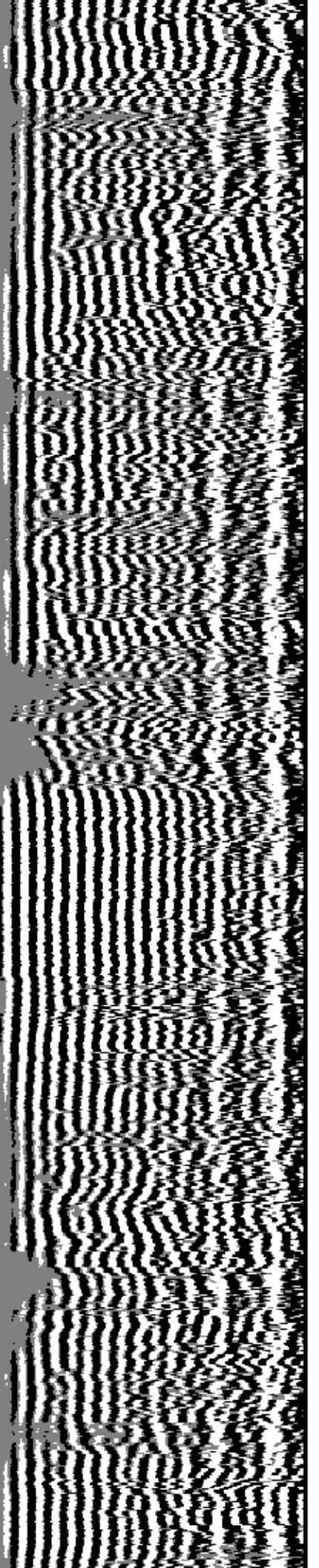
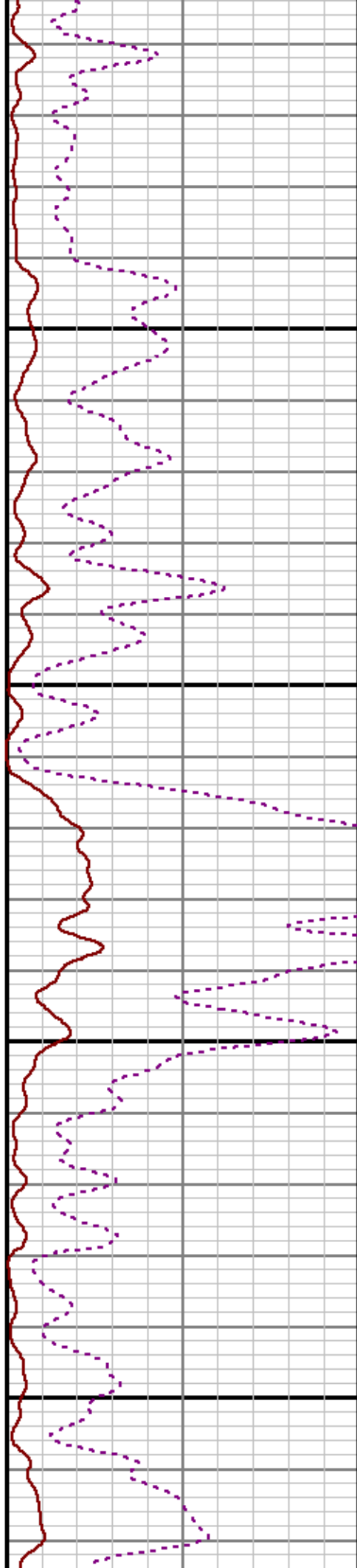
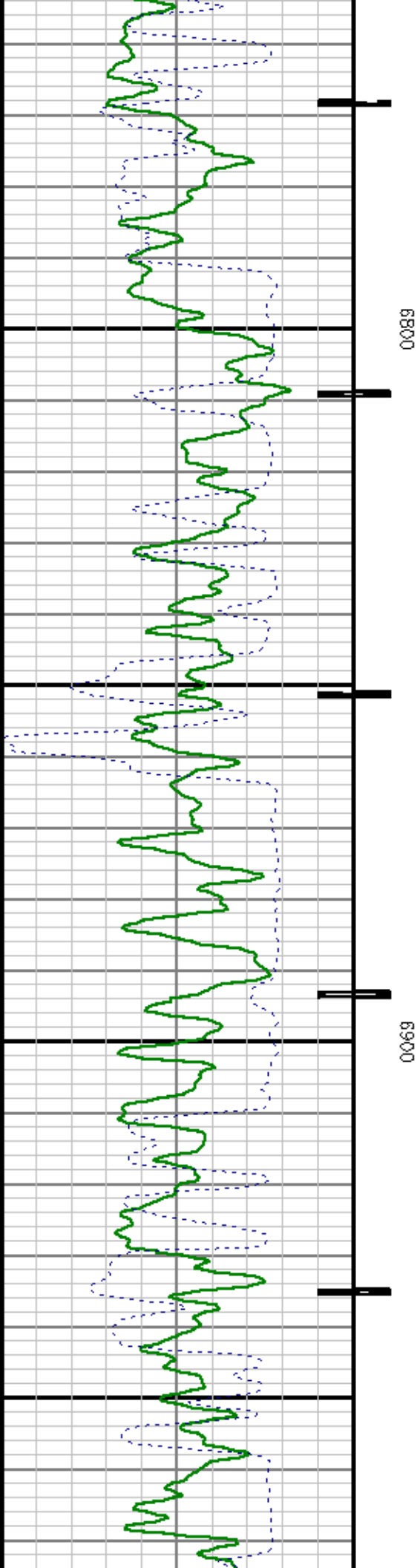


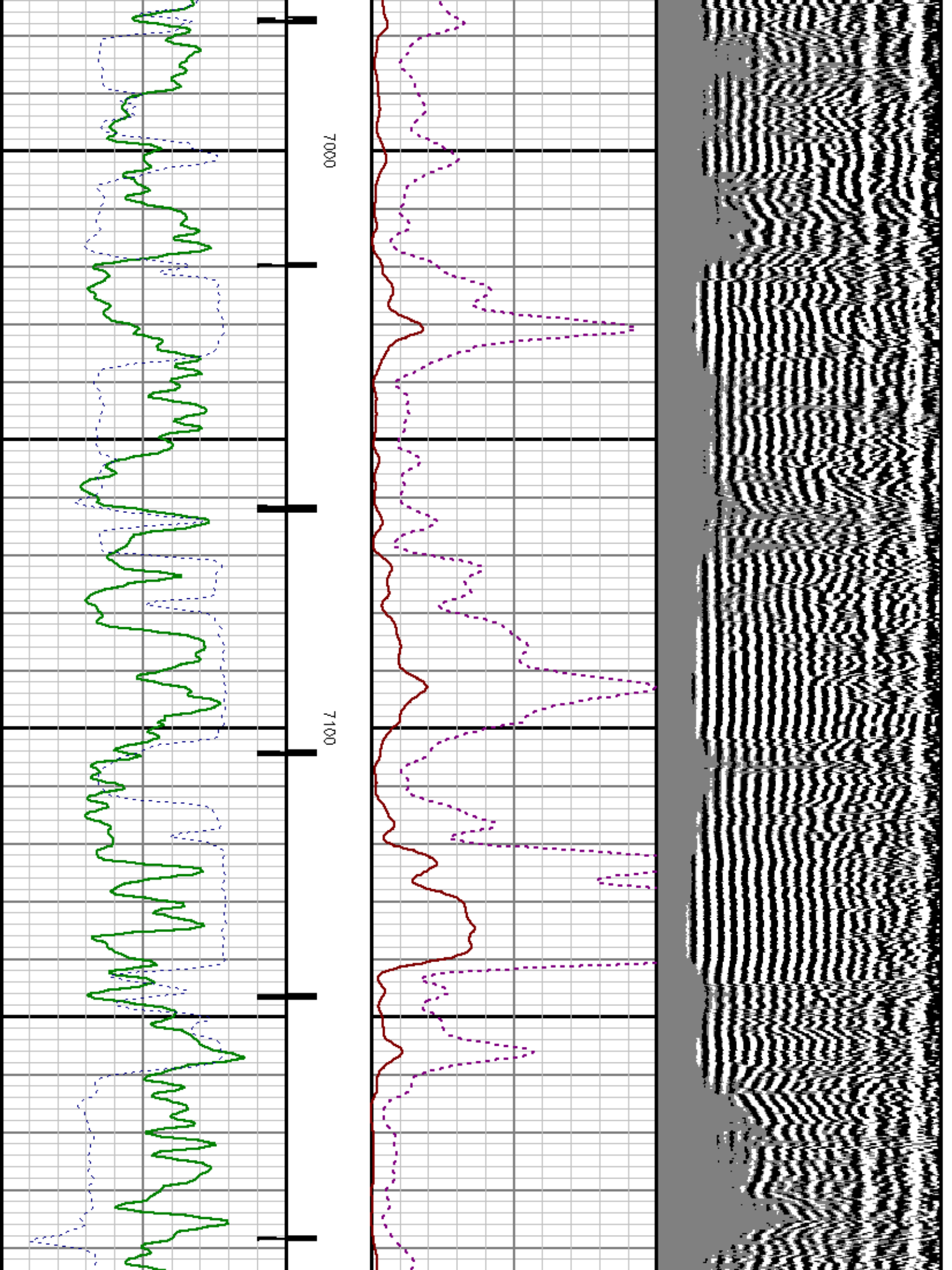


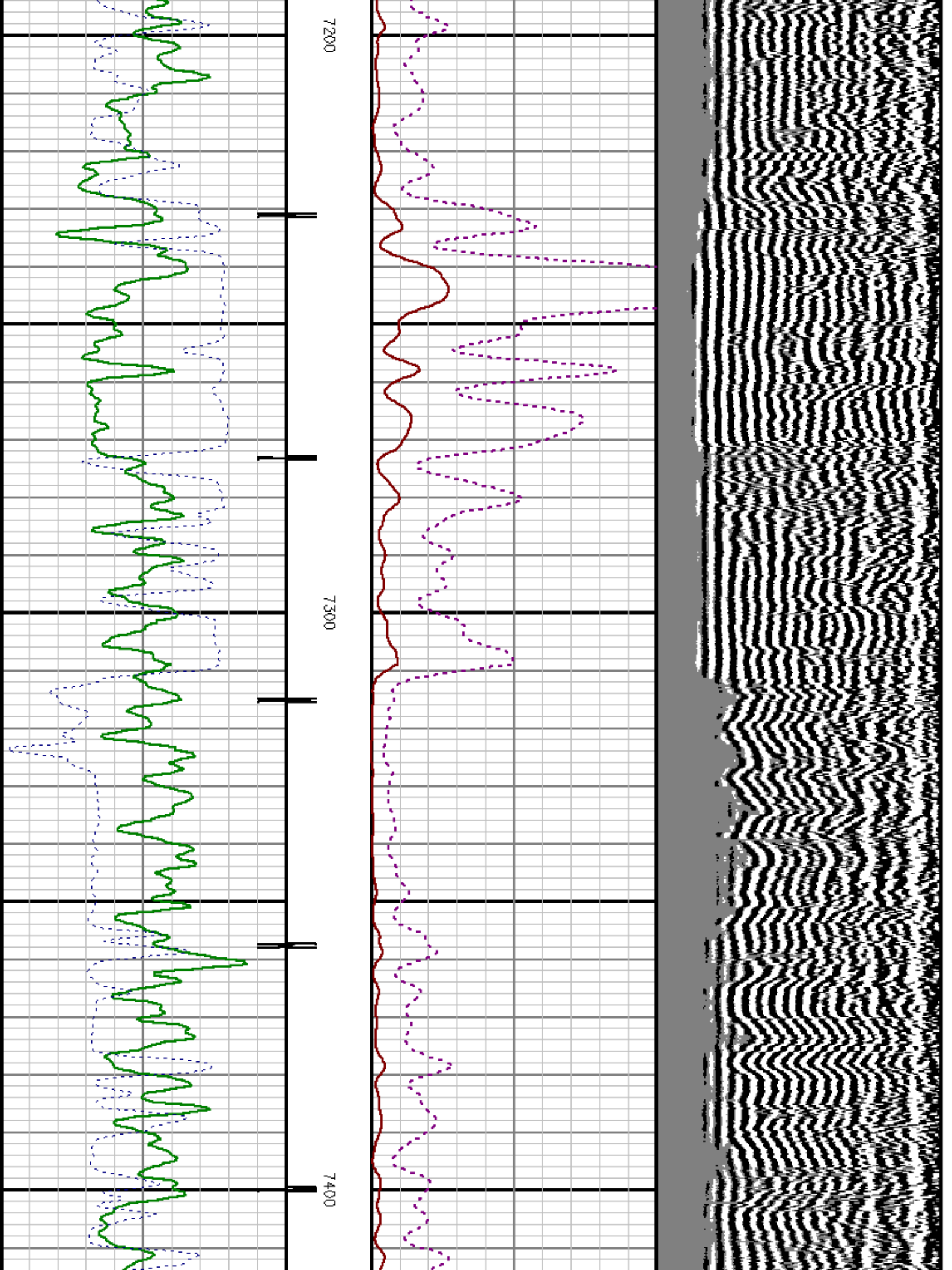


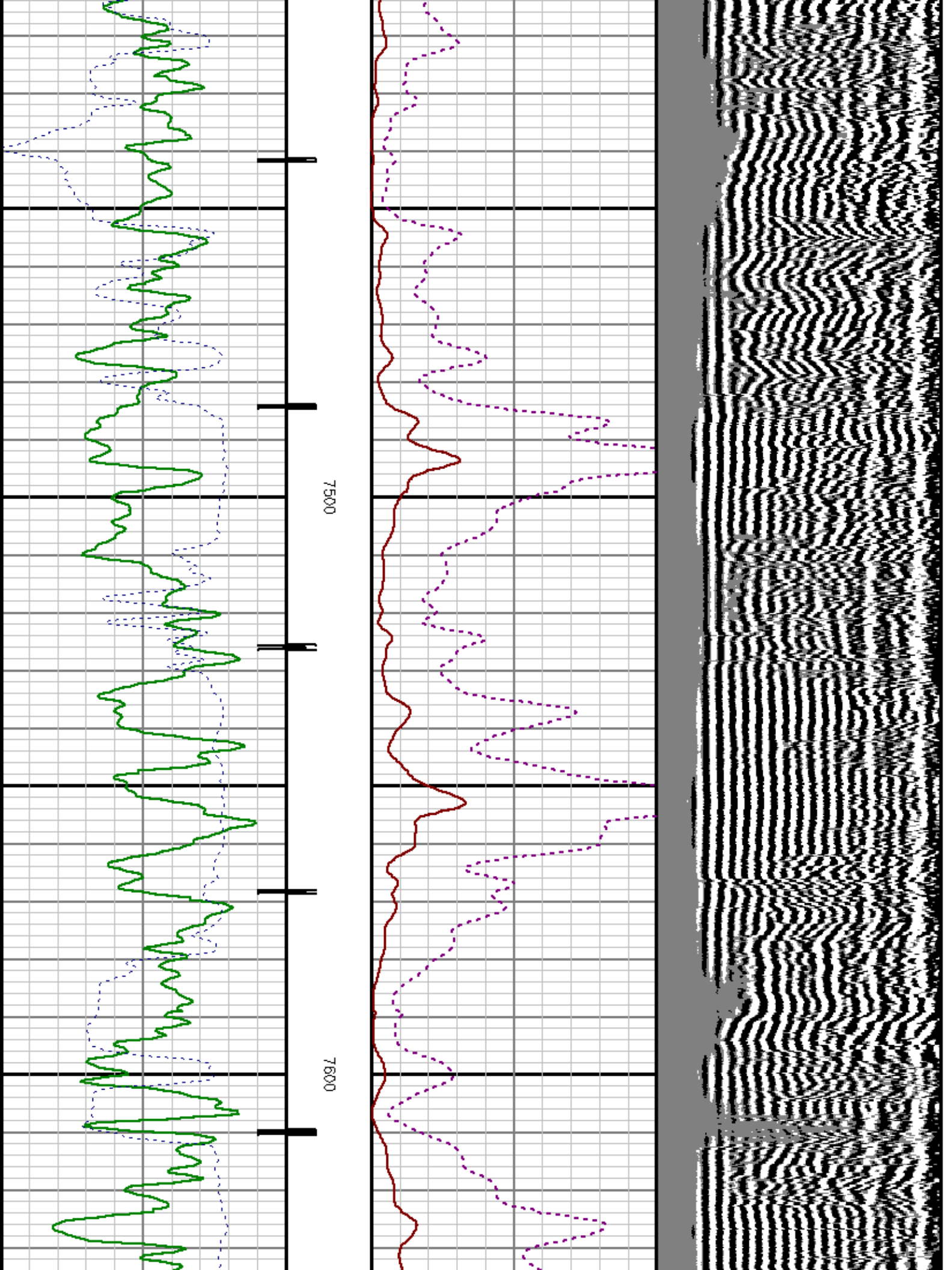


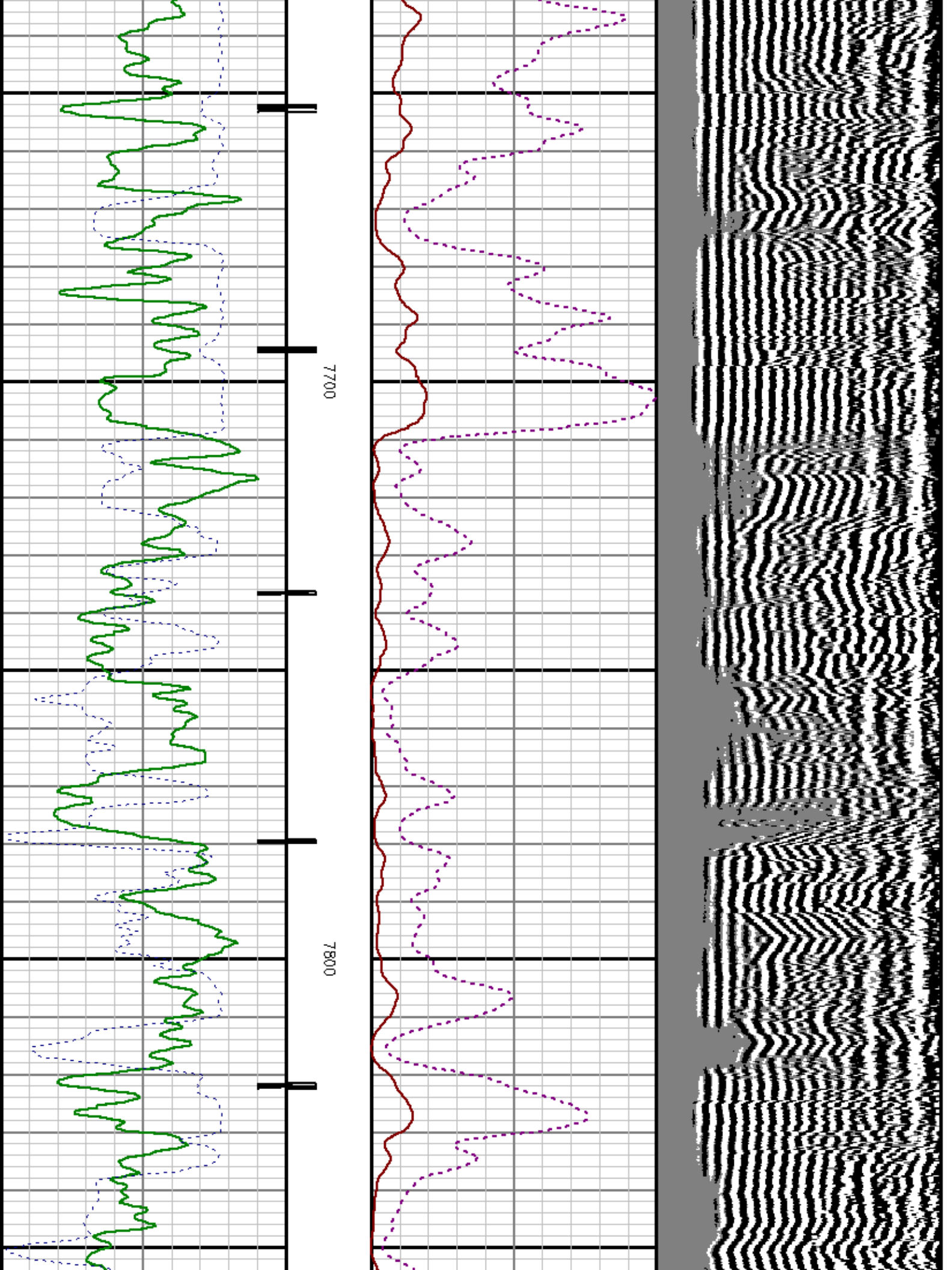


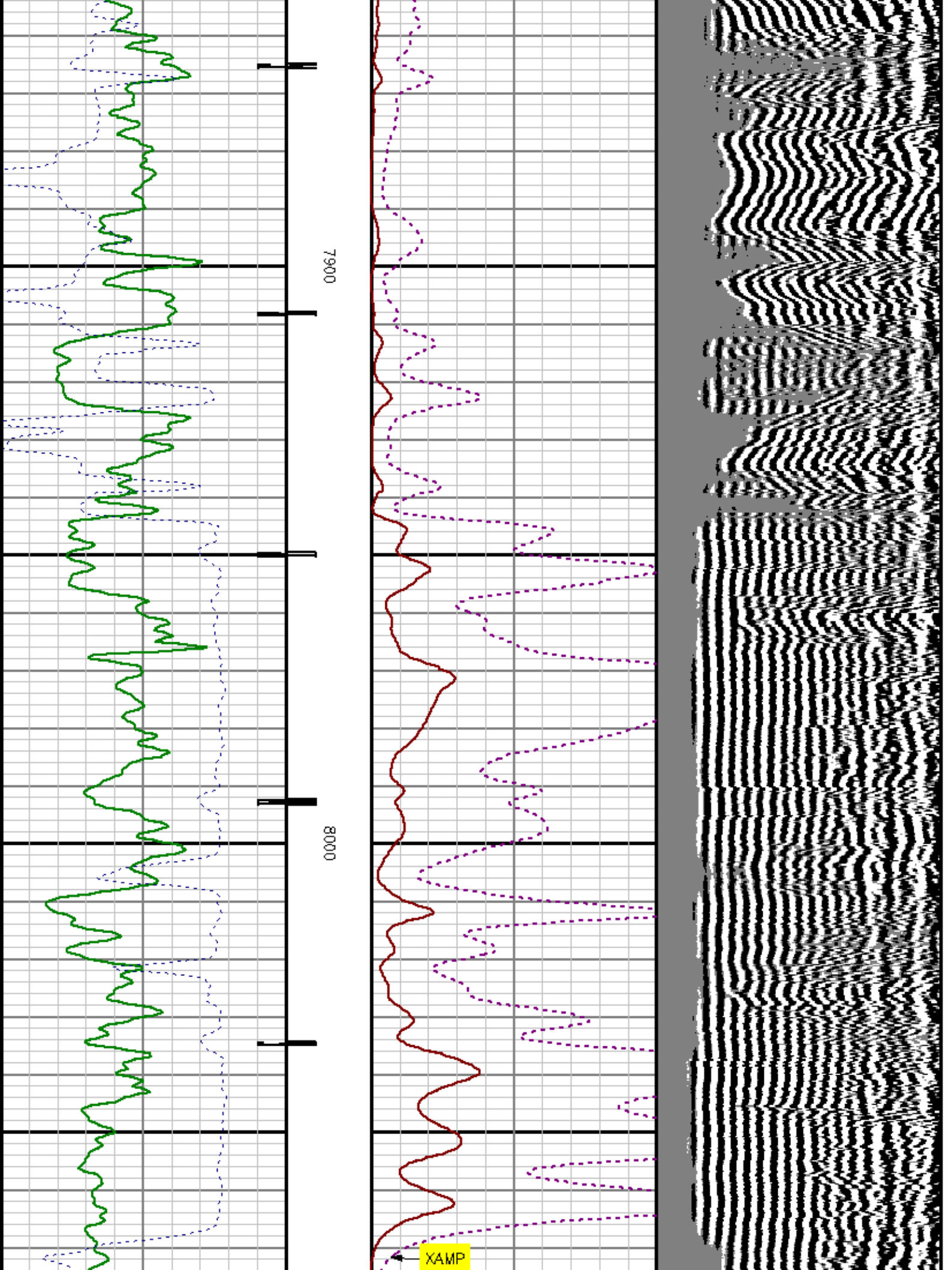


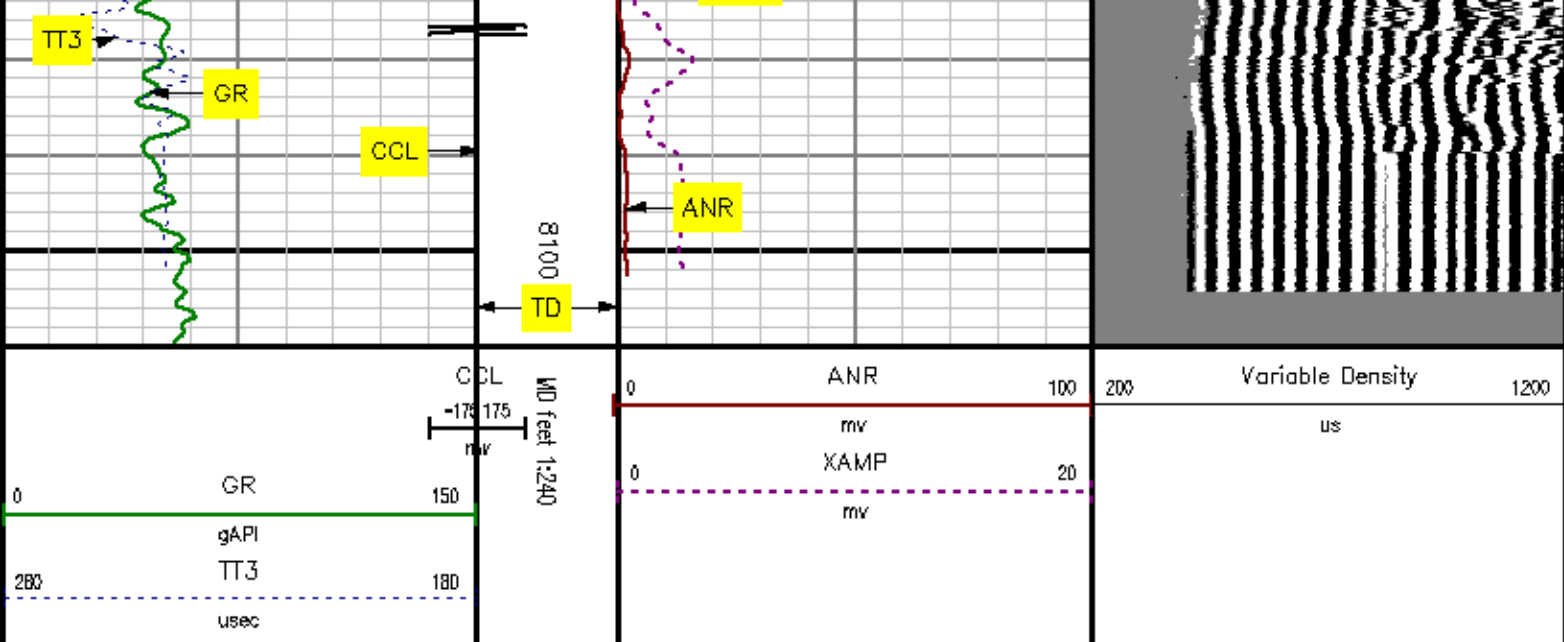












*MAIN SECTION
SECONDARY PRESENTATION
WITH 0# PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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(for Acquired Curves)

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		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-14.360	AFAR	SIG	TT5			
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Created by : RAL, v4.6.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

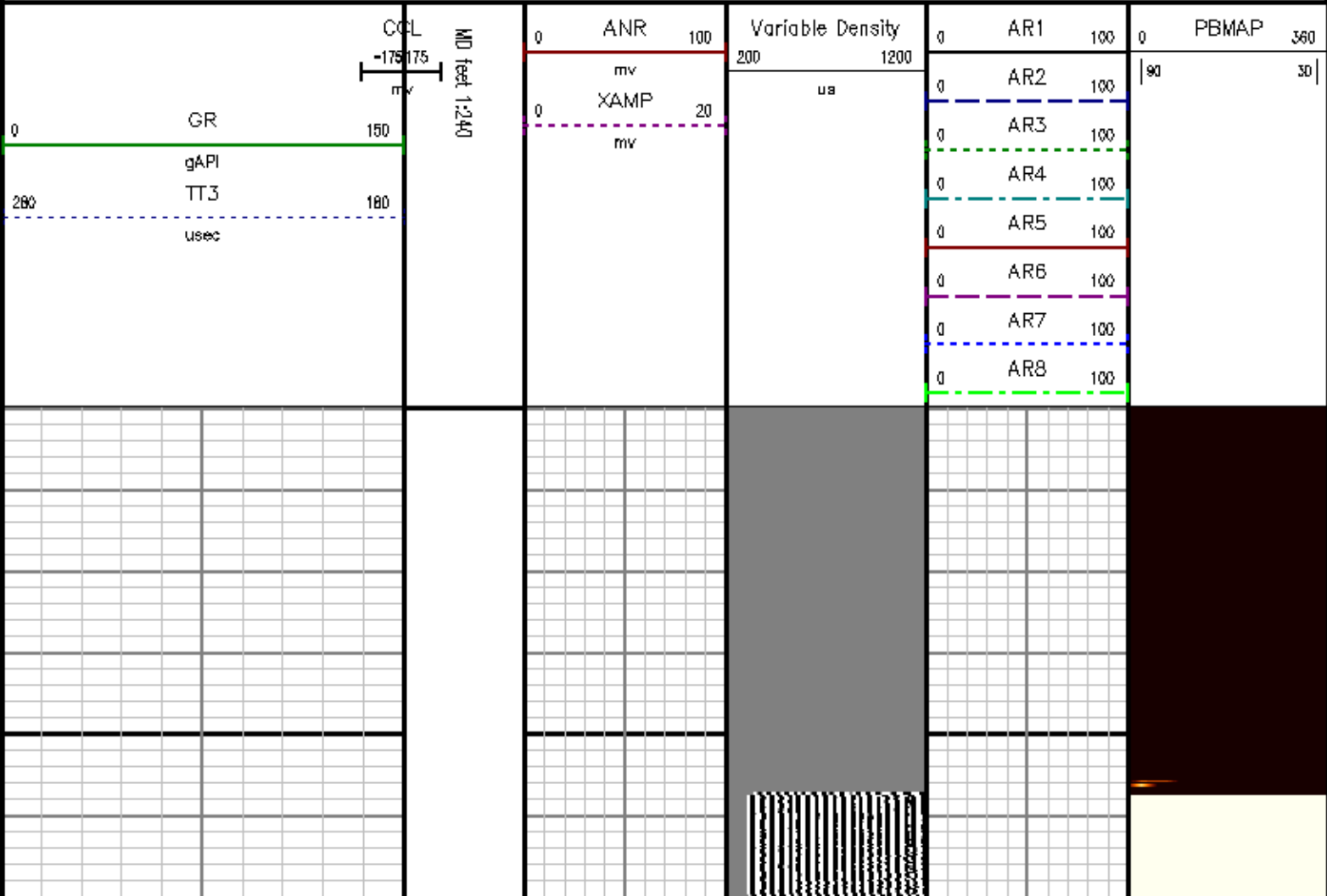
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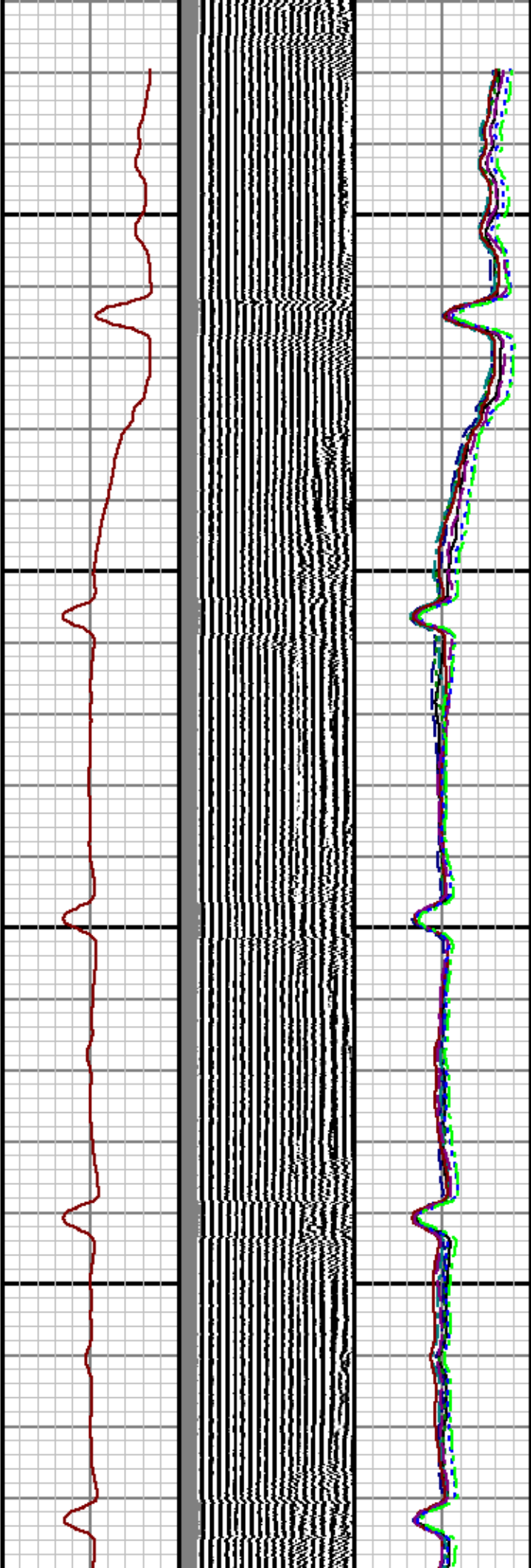
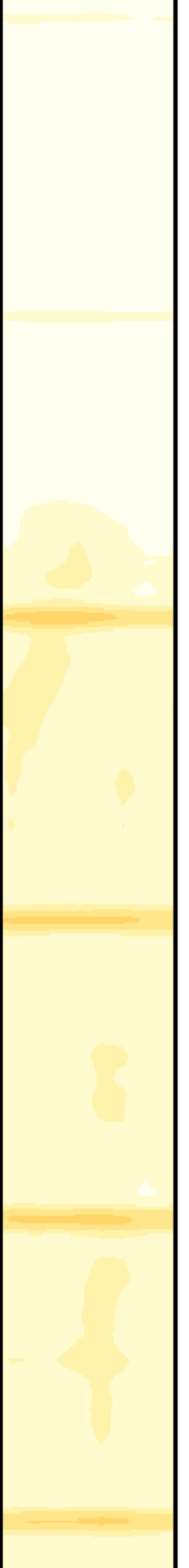
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Mode : PlotMgr 5.4.504

Interval : 10.00 - 6110.00 feet UP

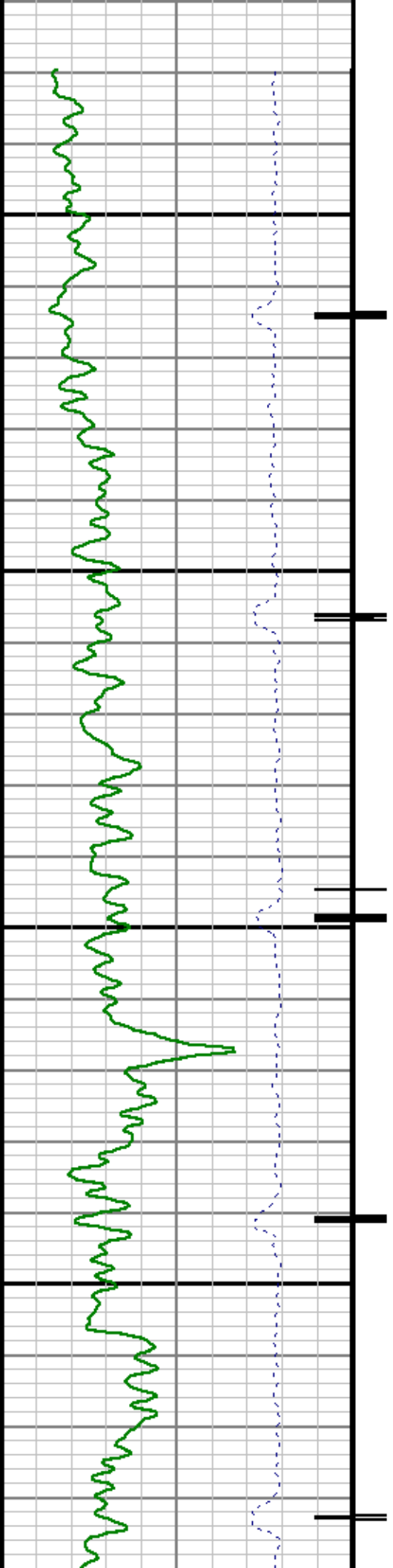
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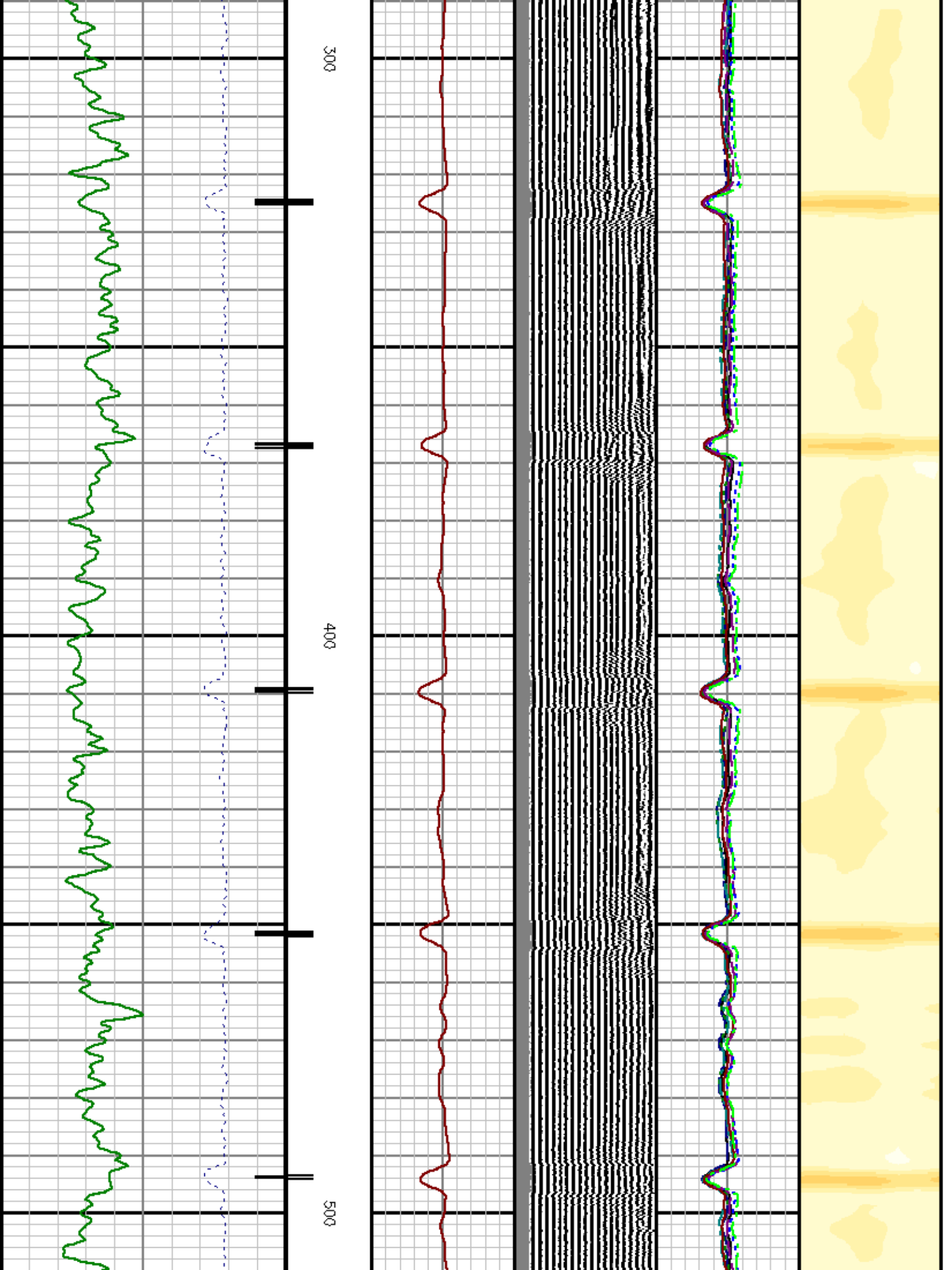


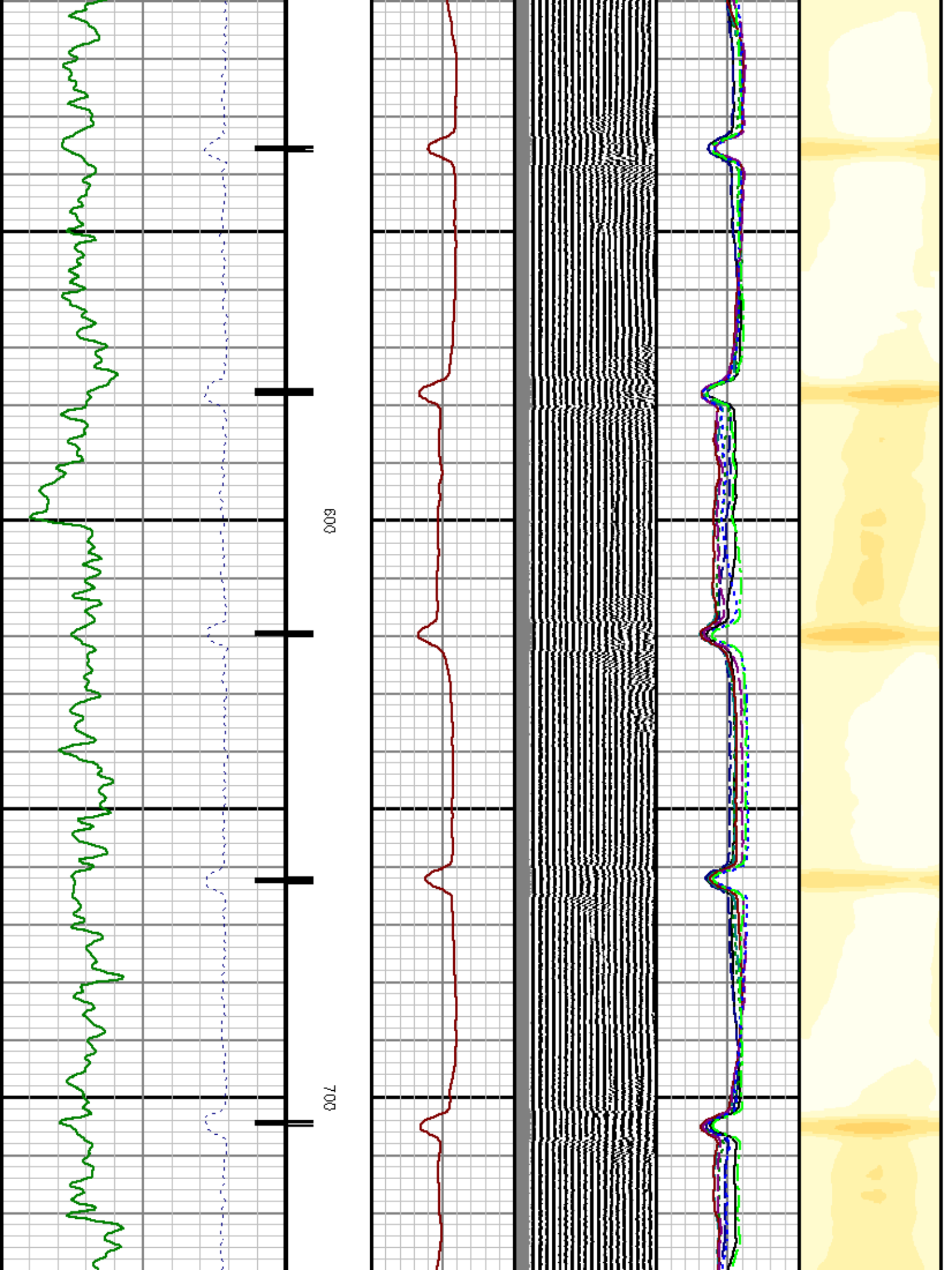


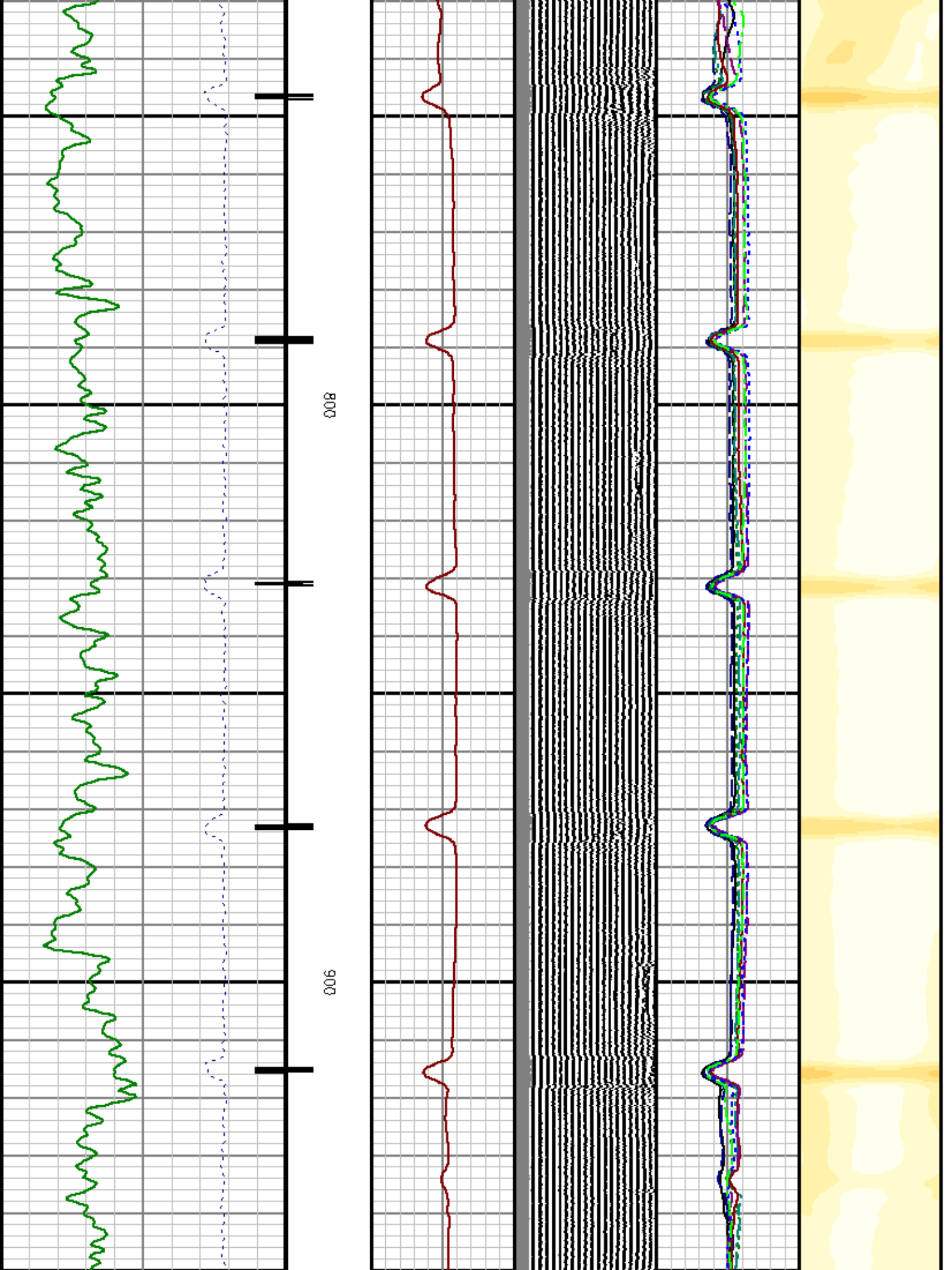
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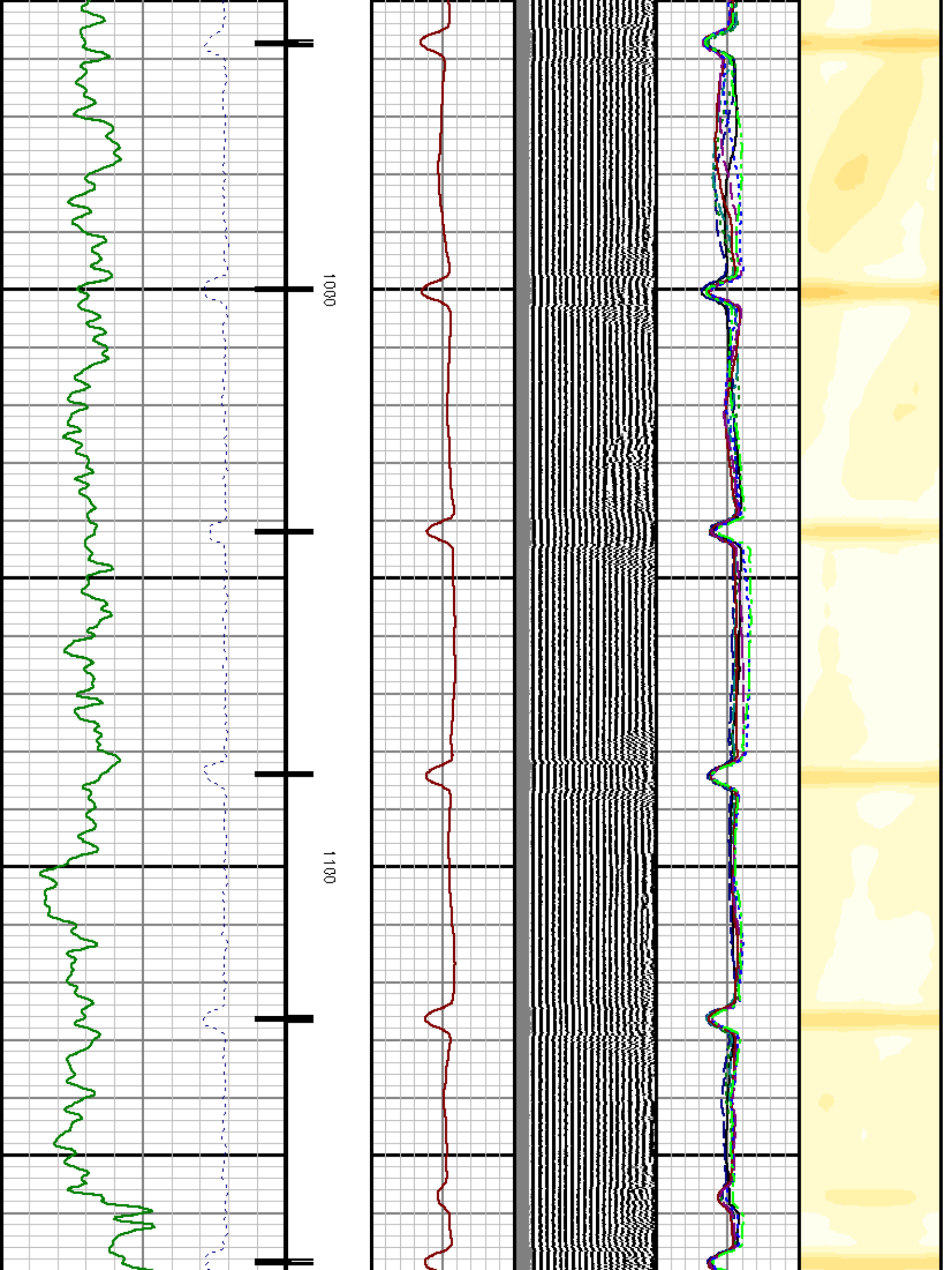
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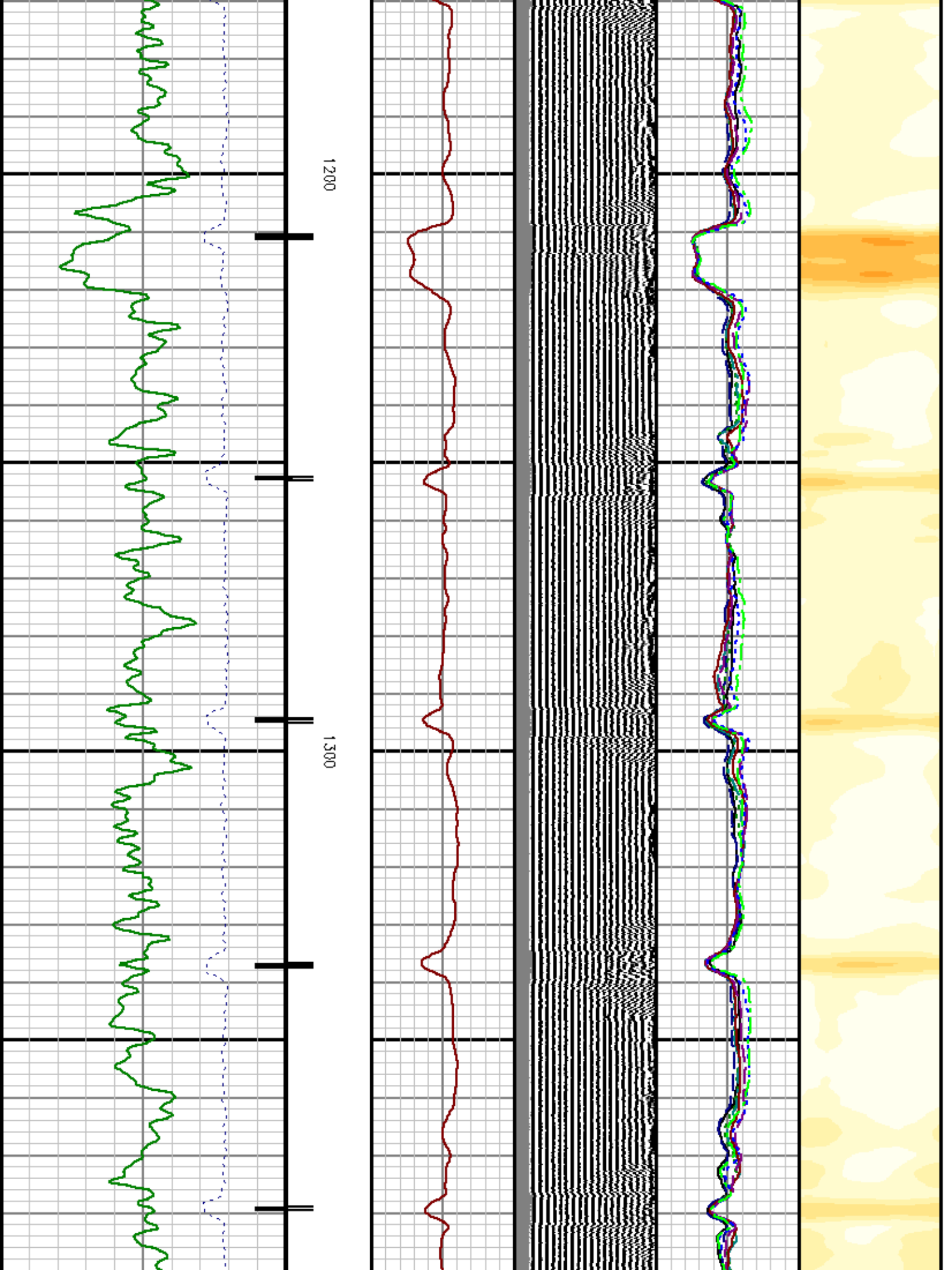


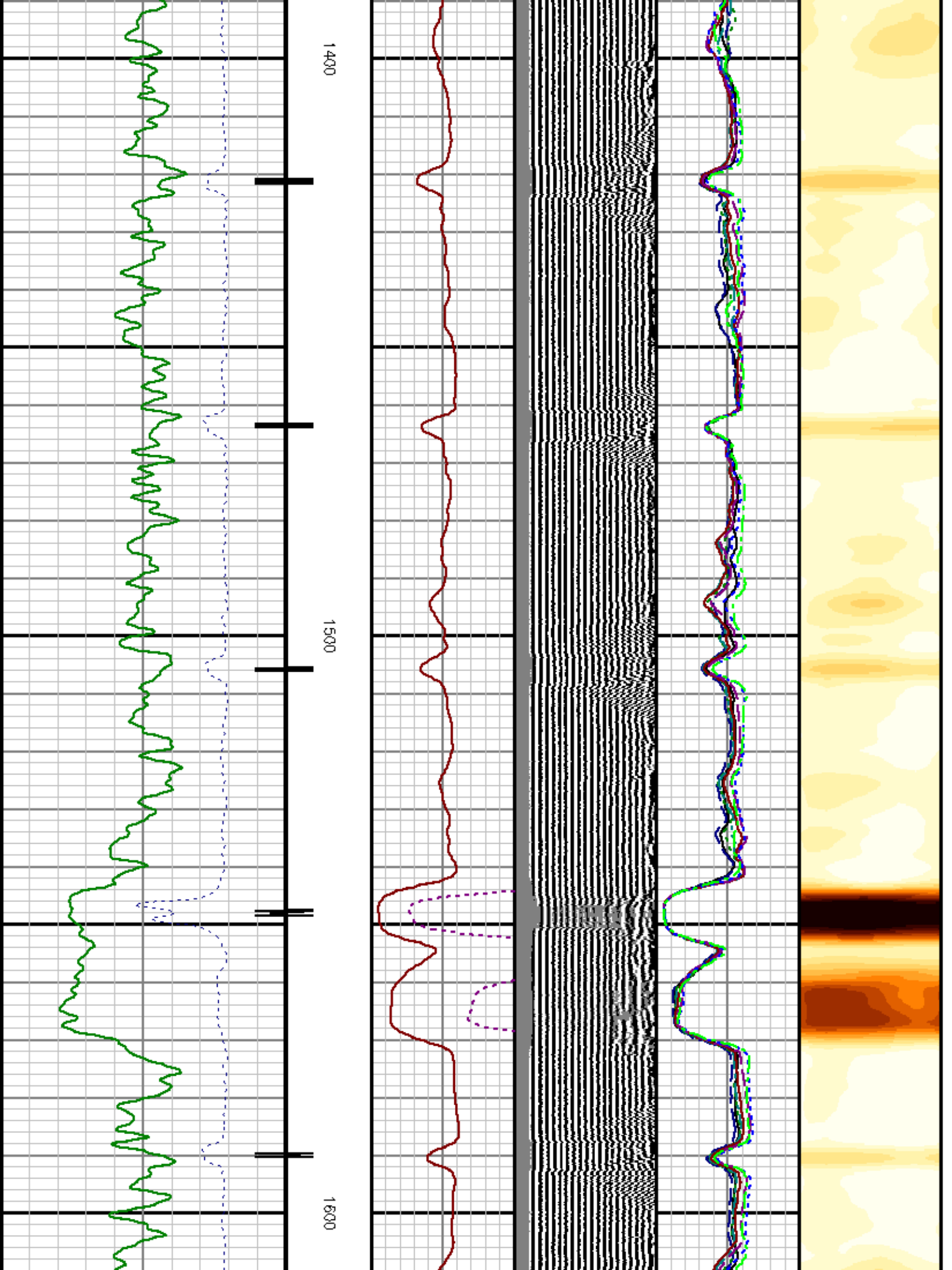


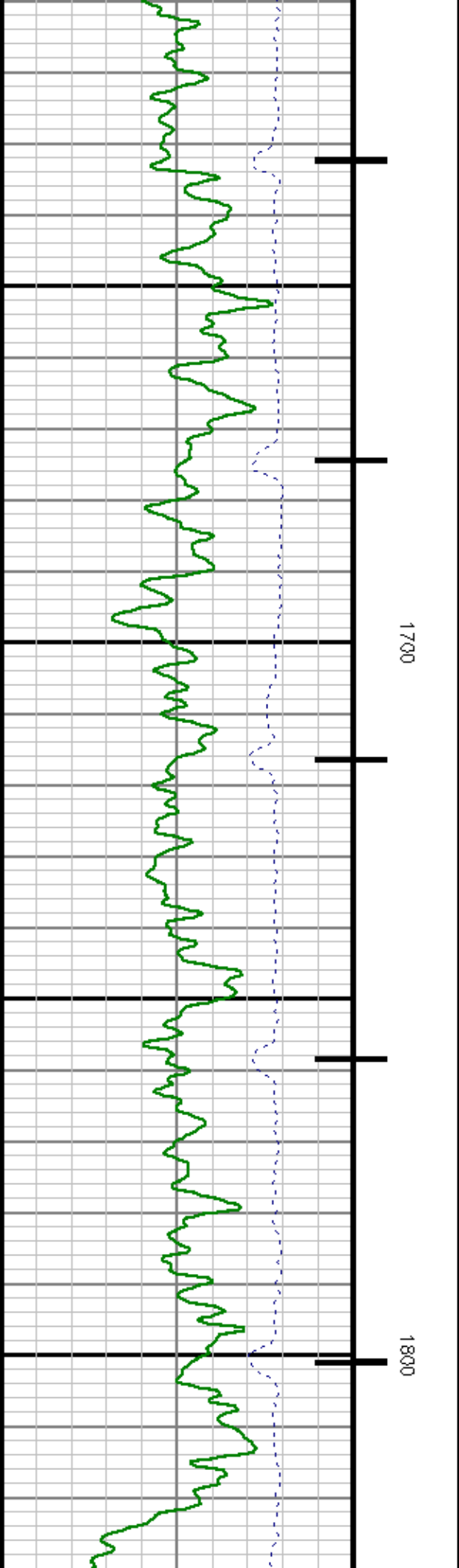
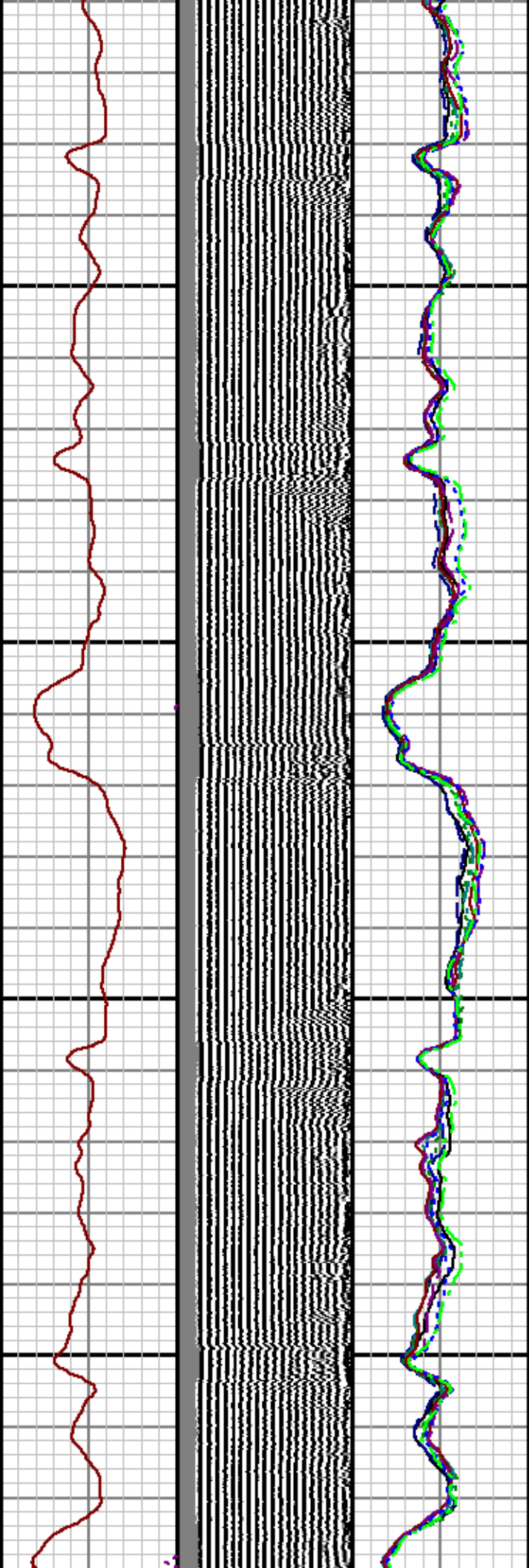


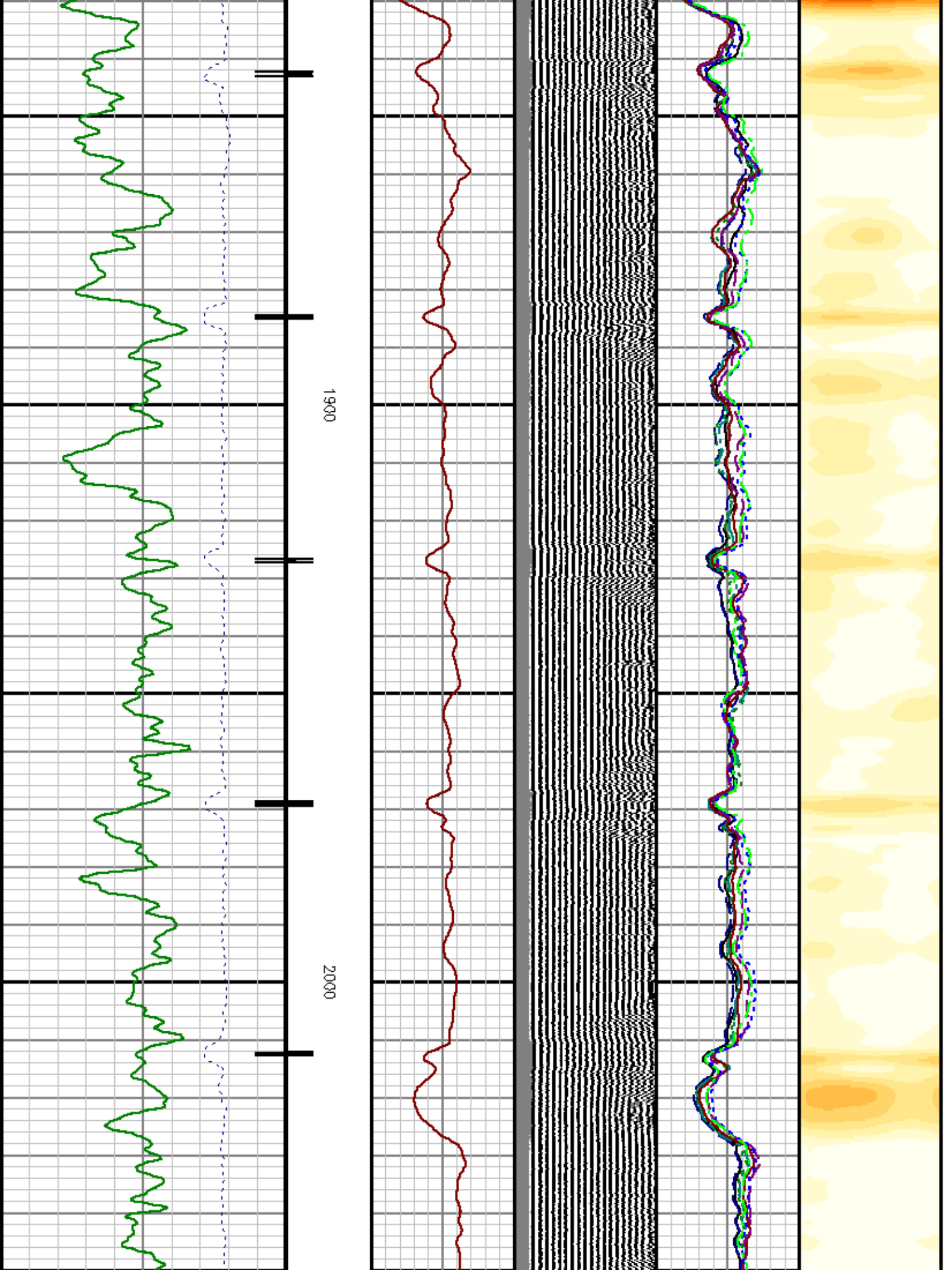


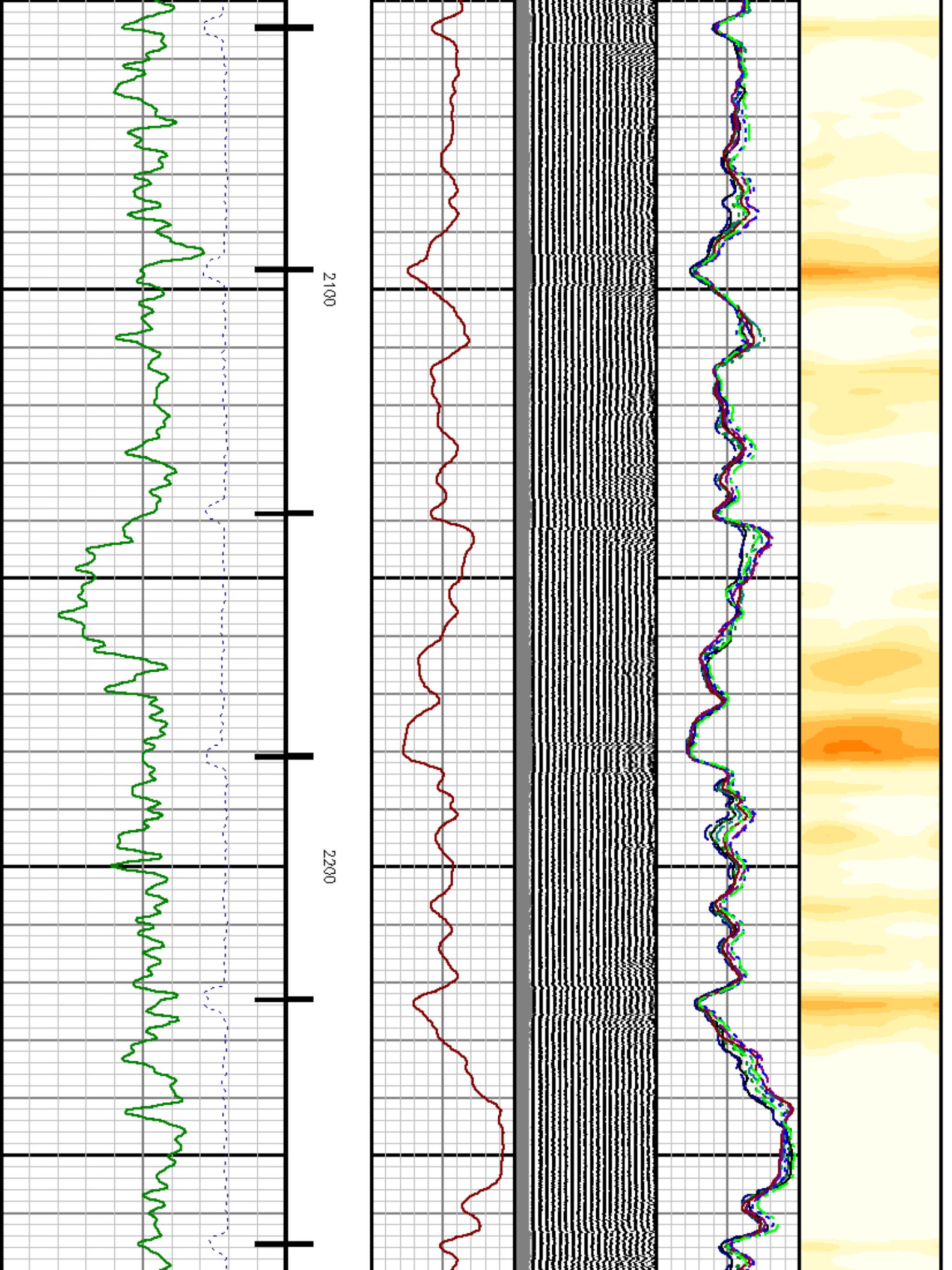


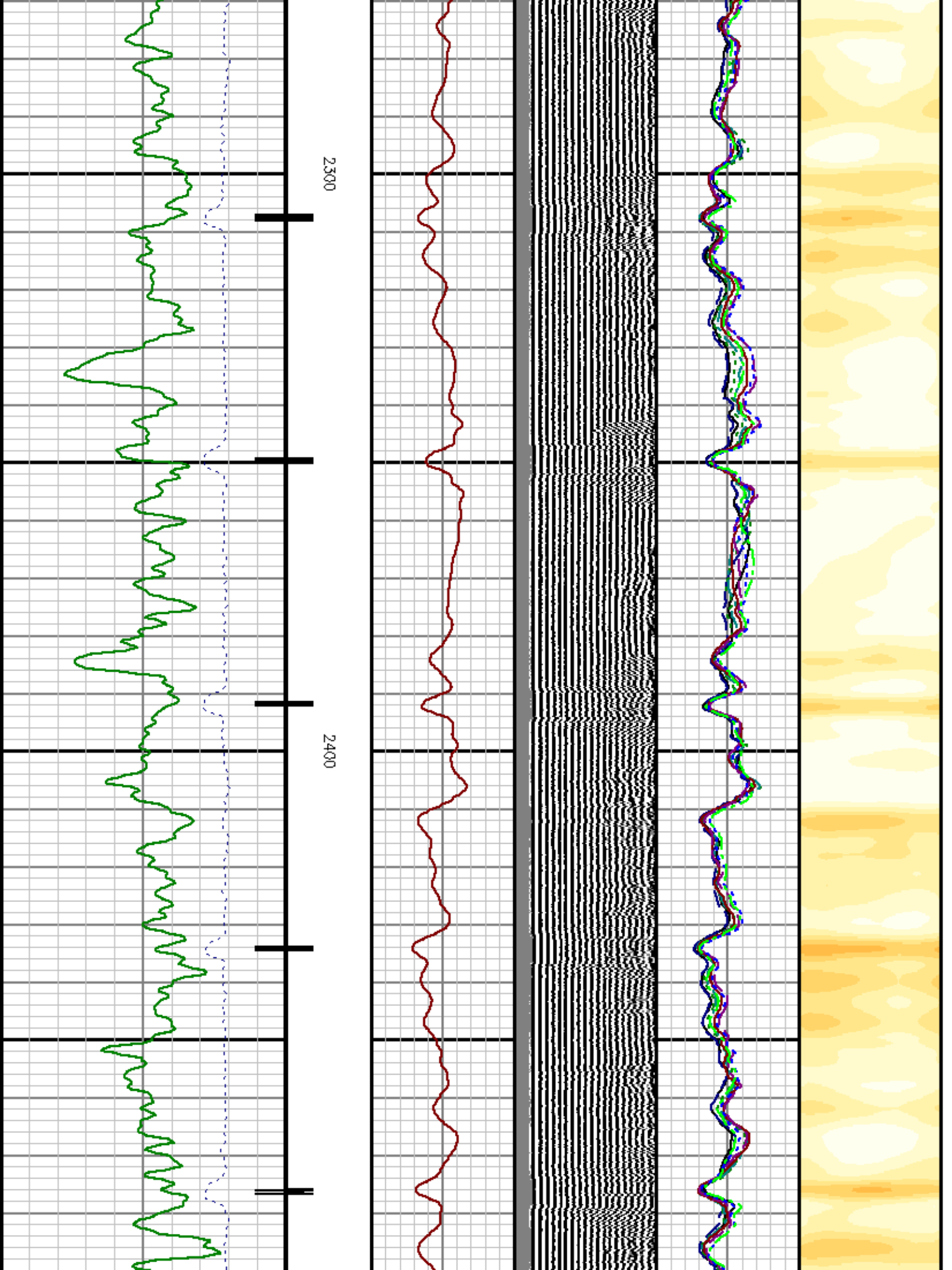


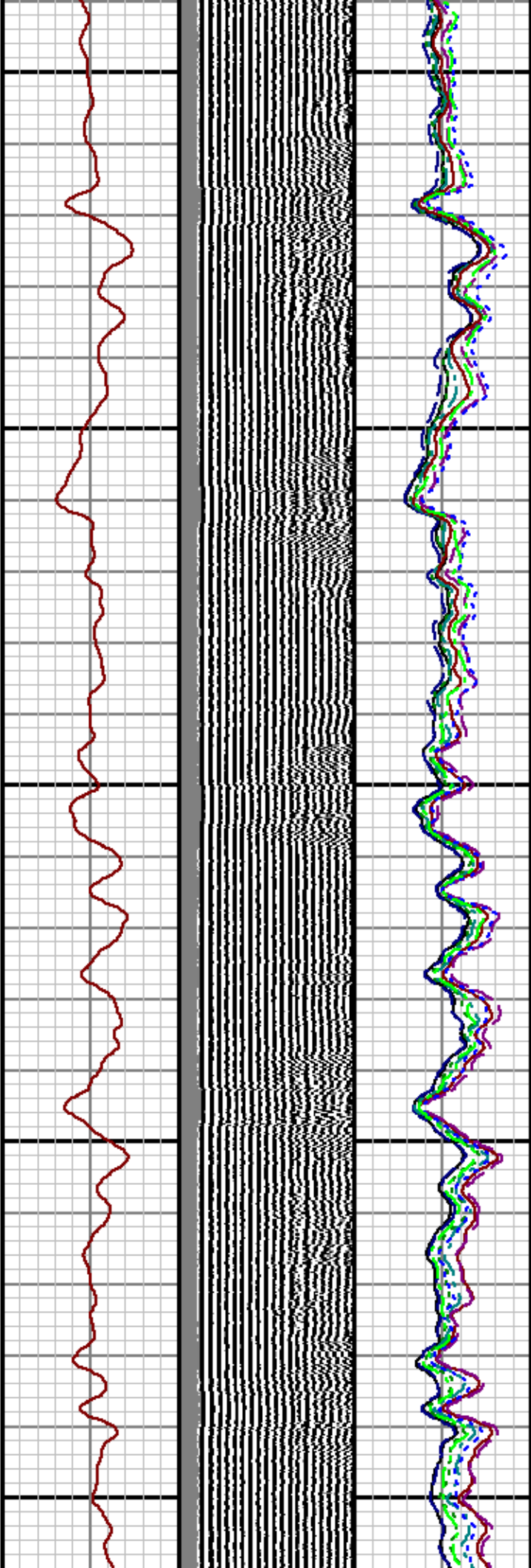








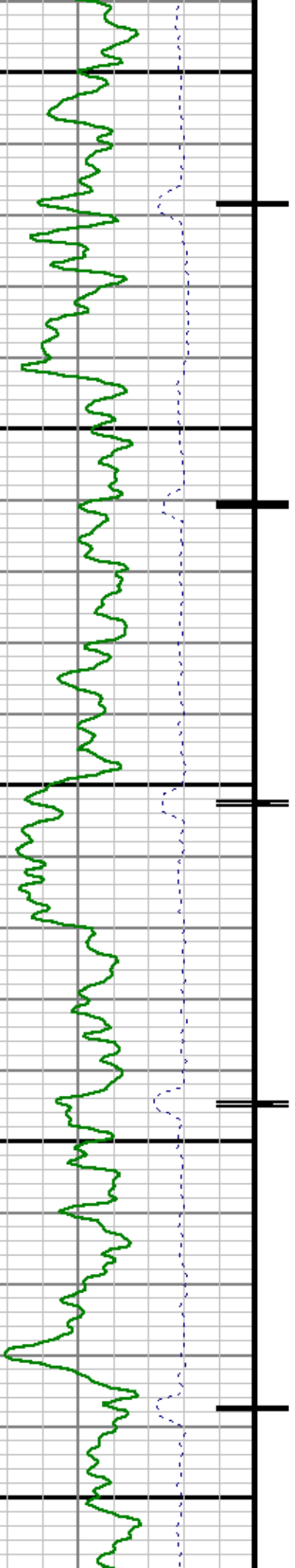


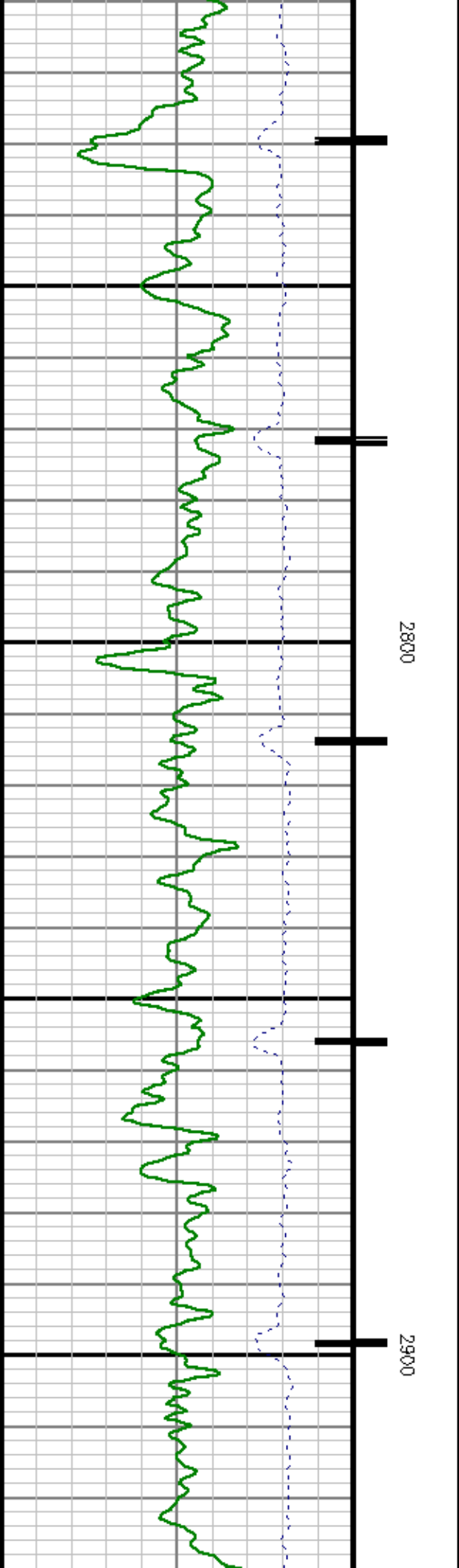
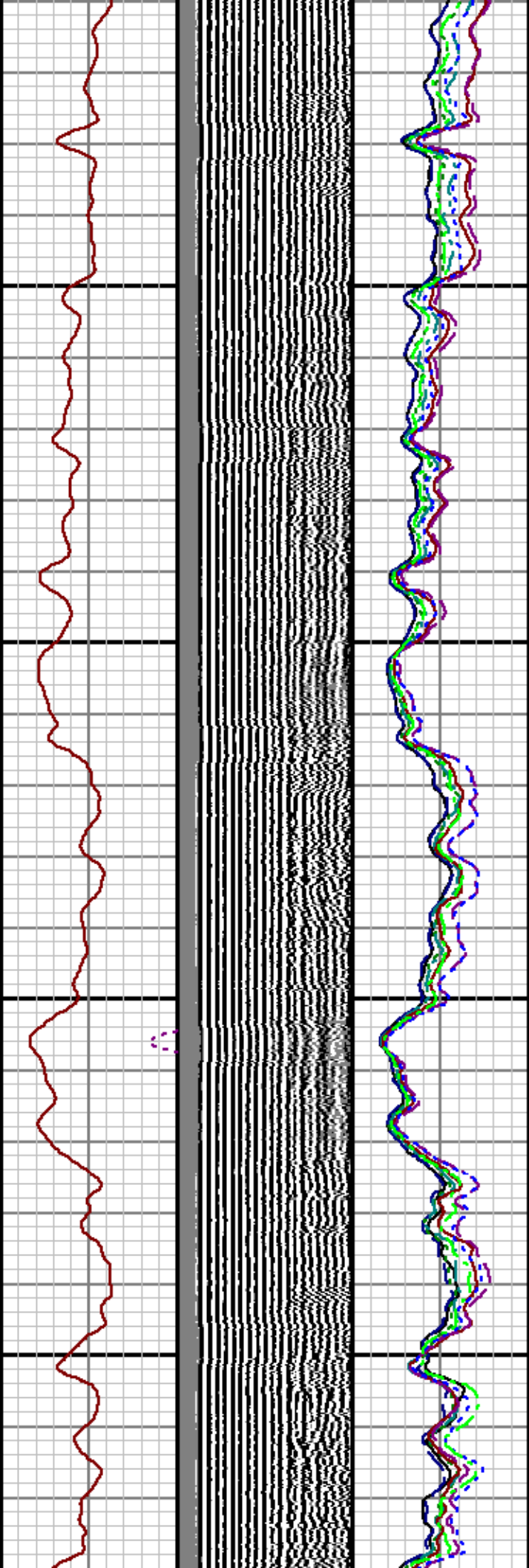


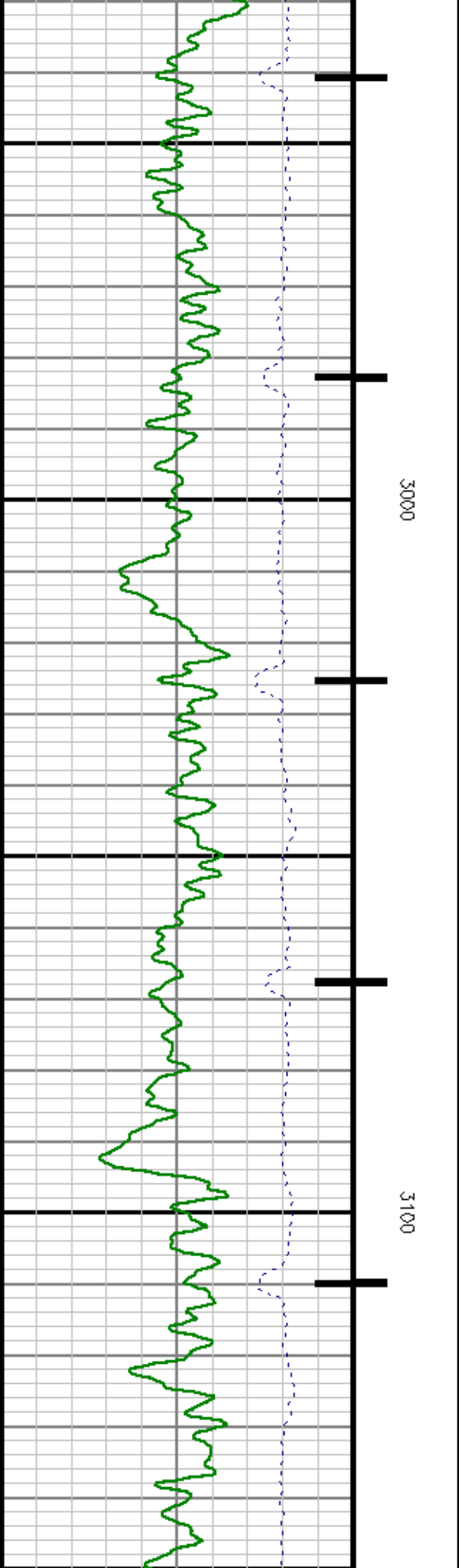
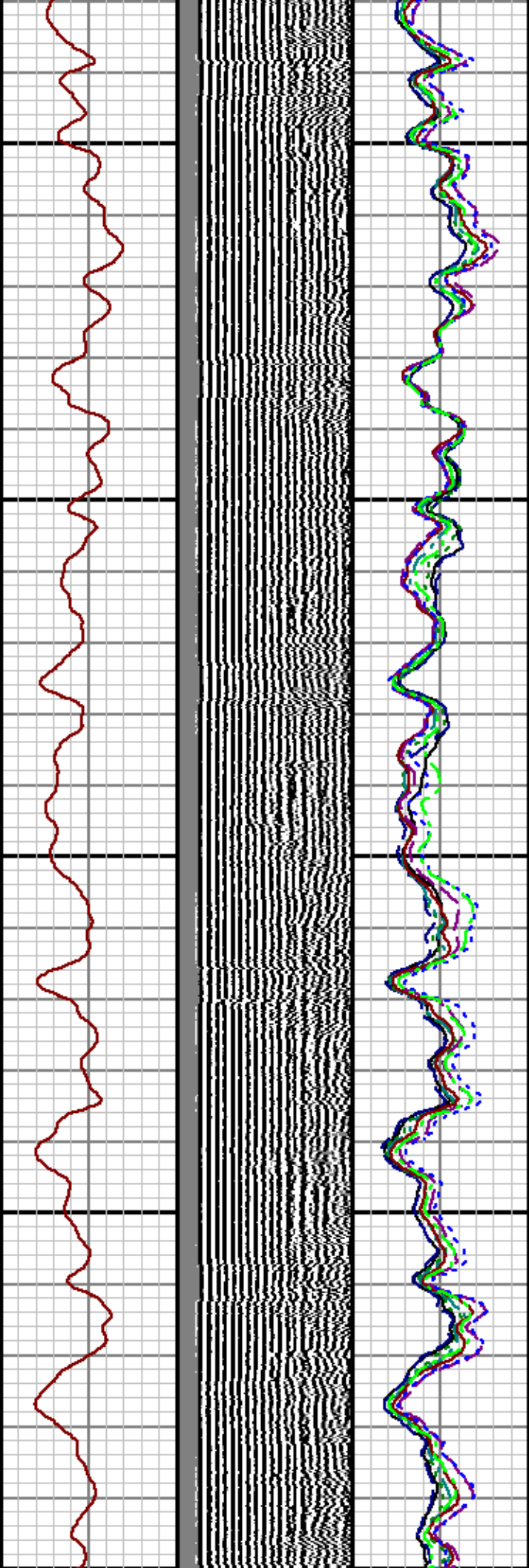
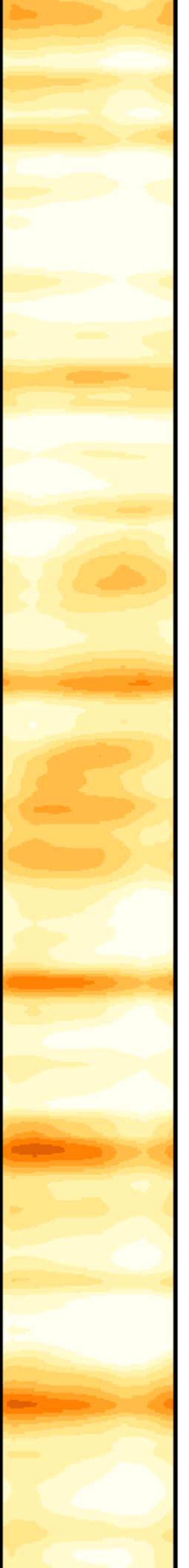
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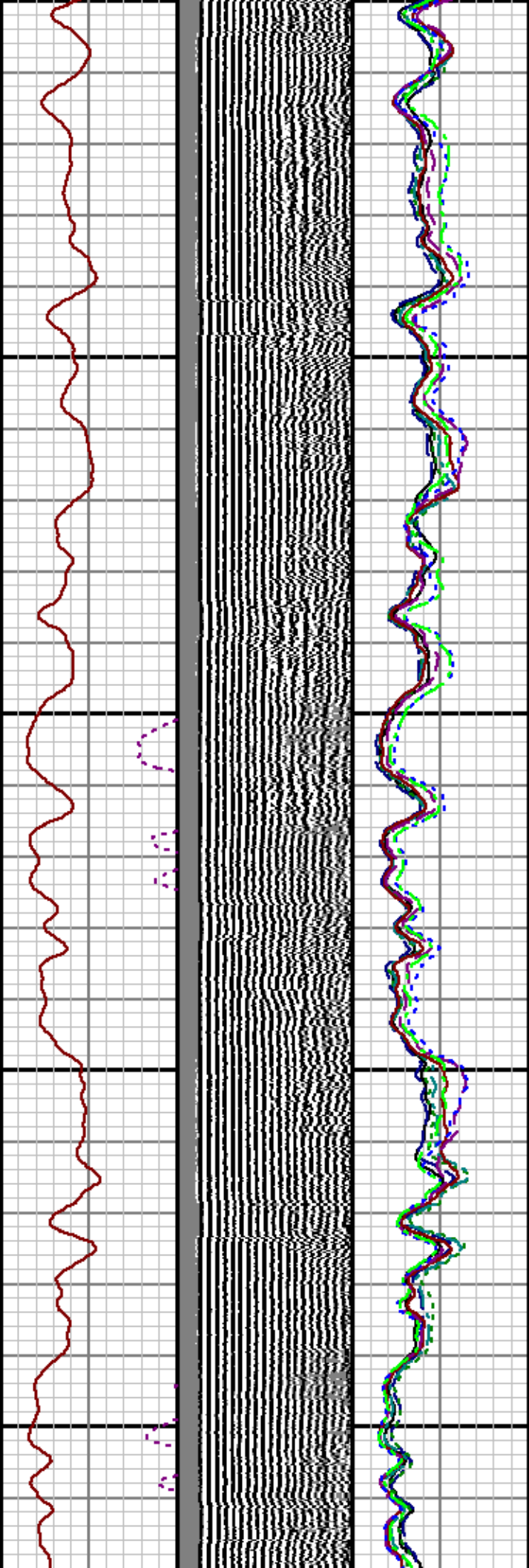
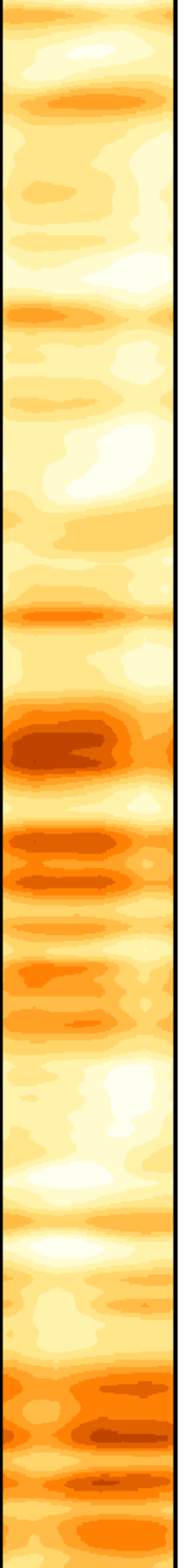
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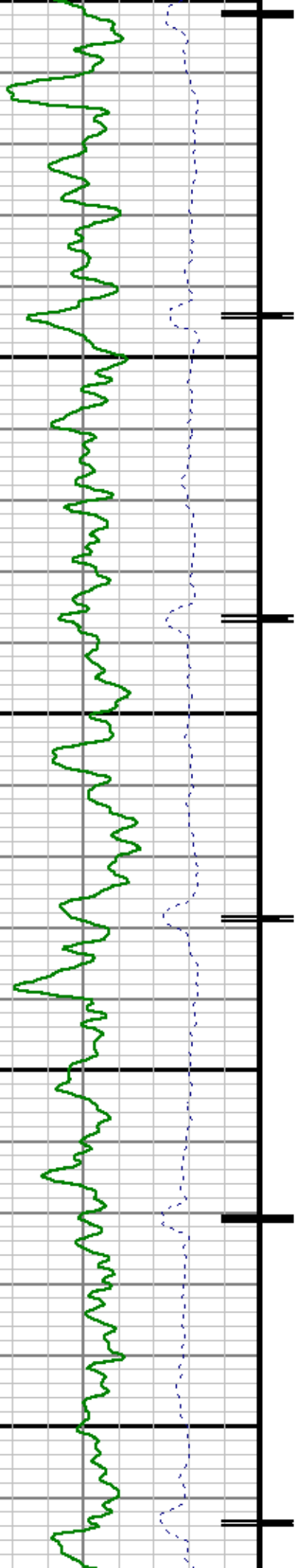


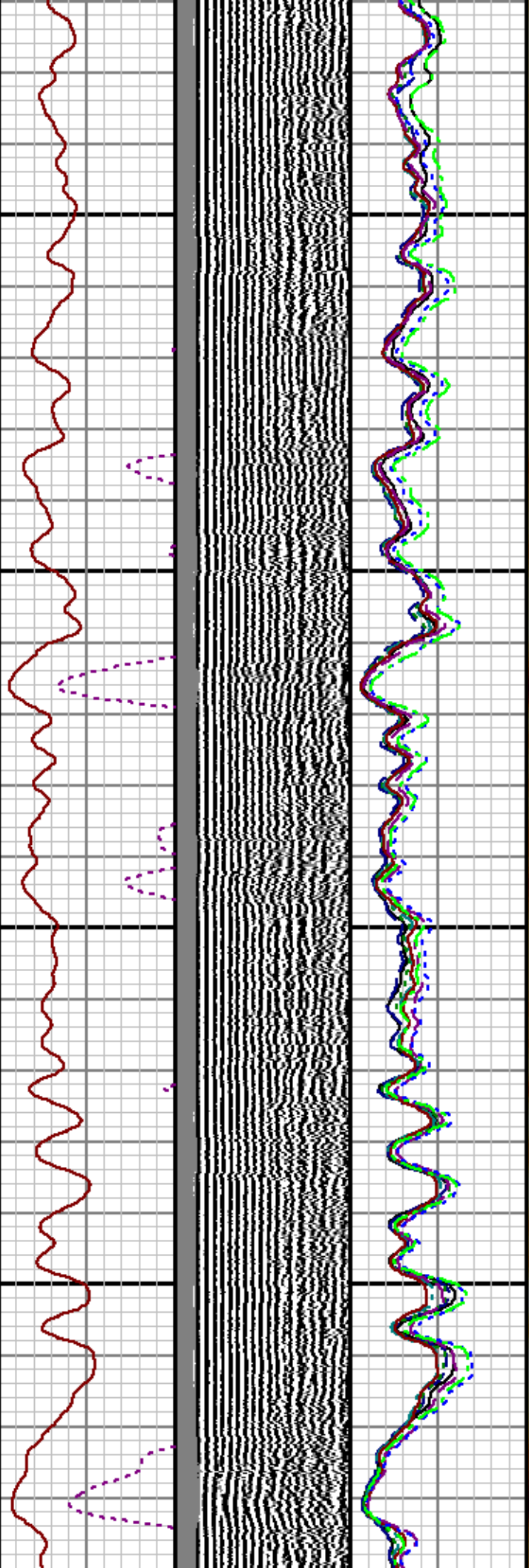
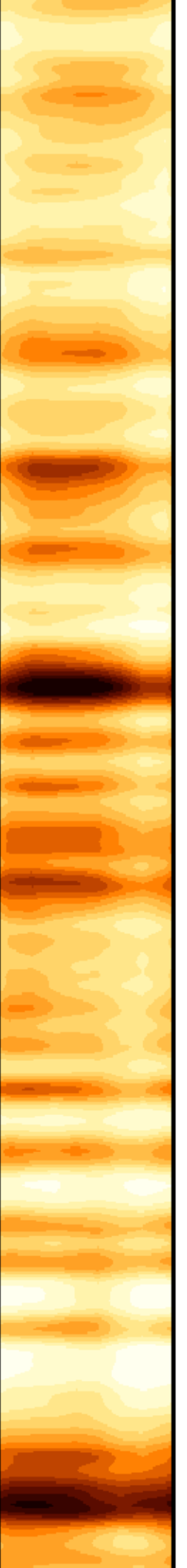




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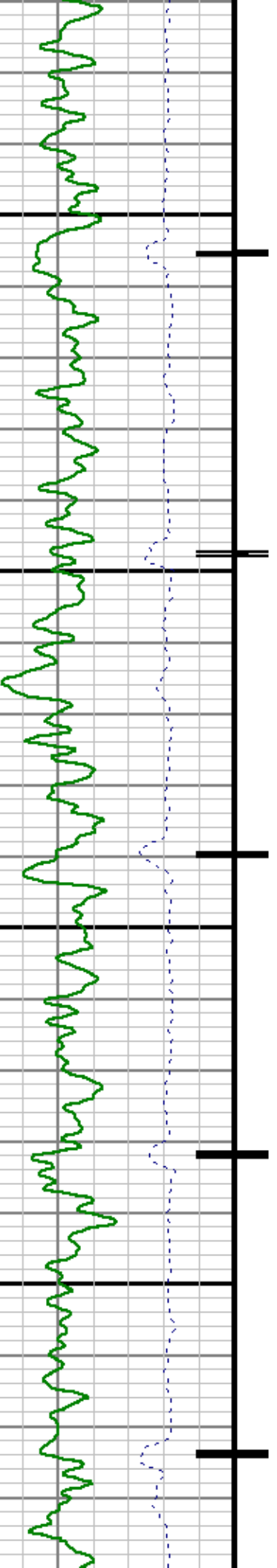
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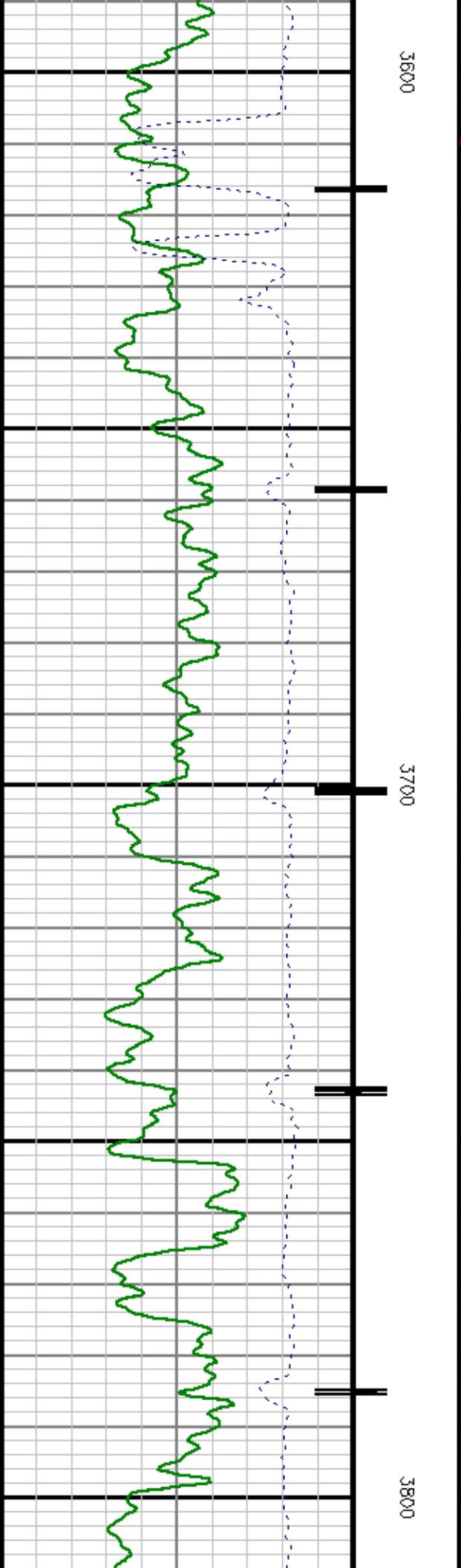
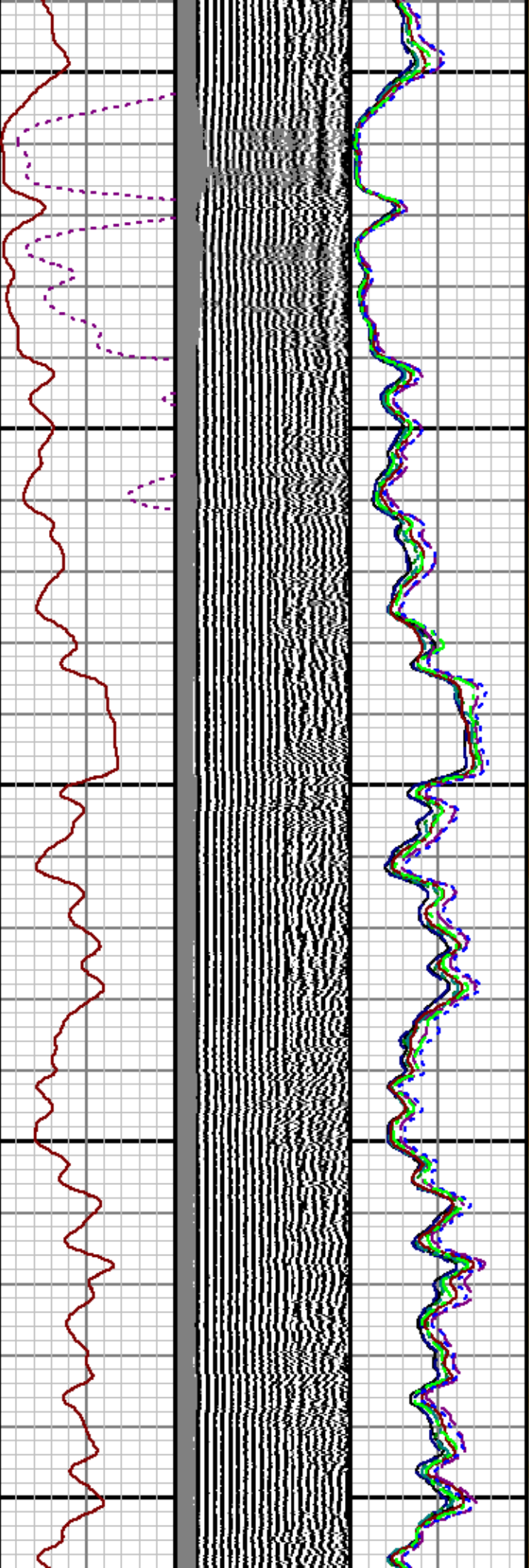


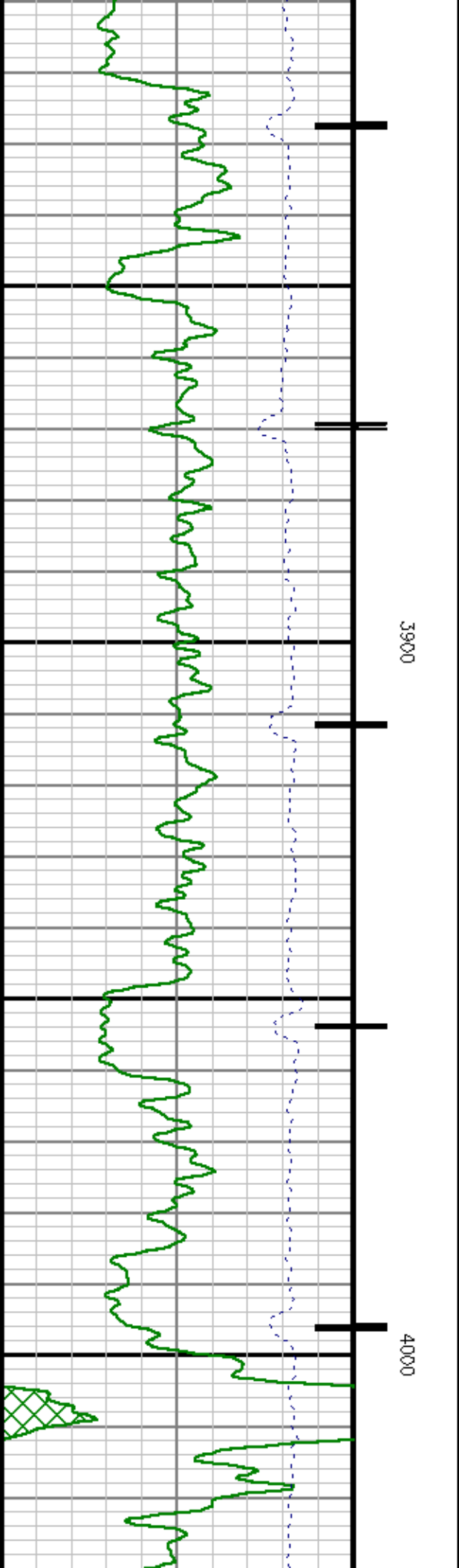
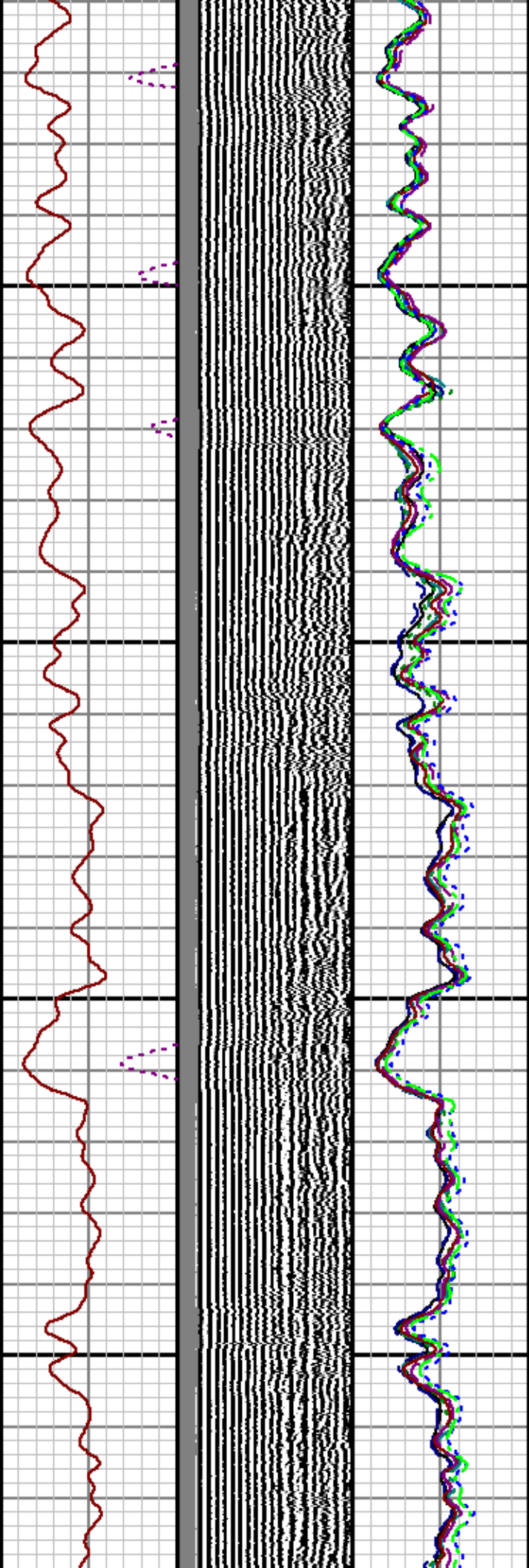


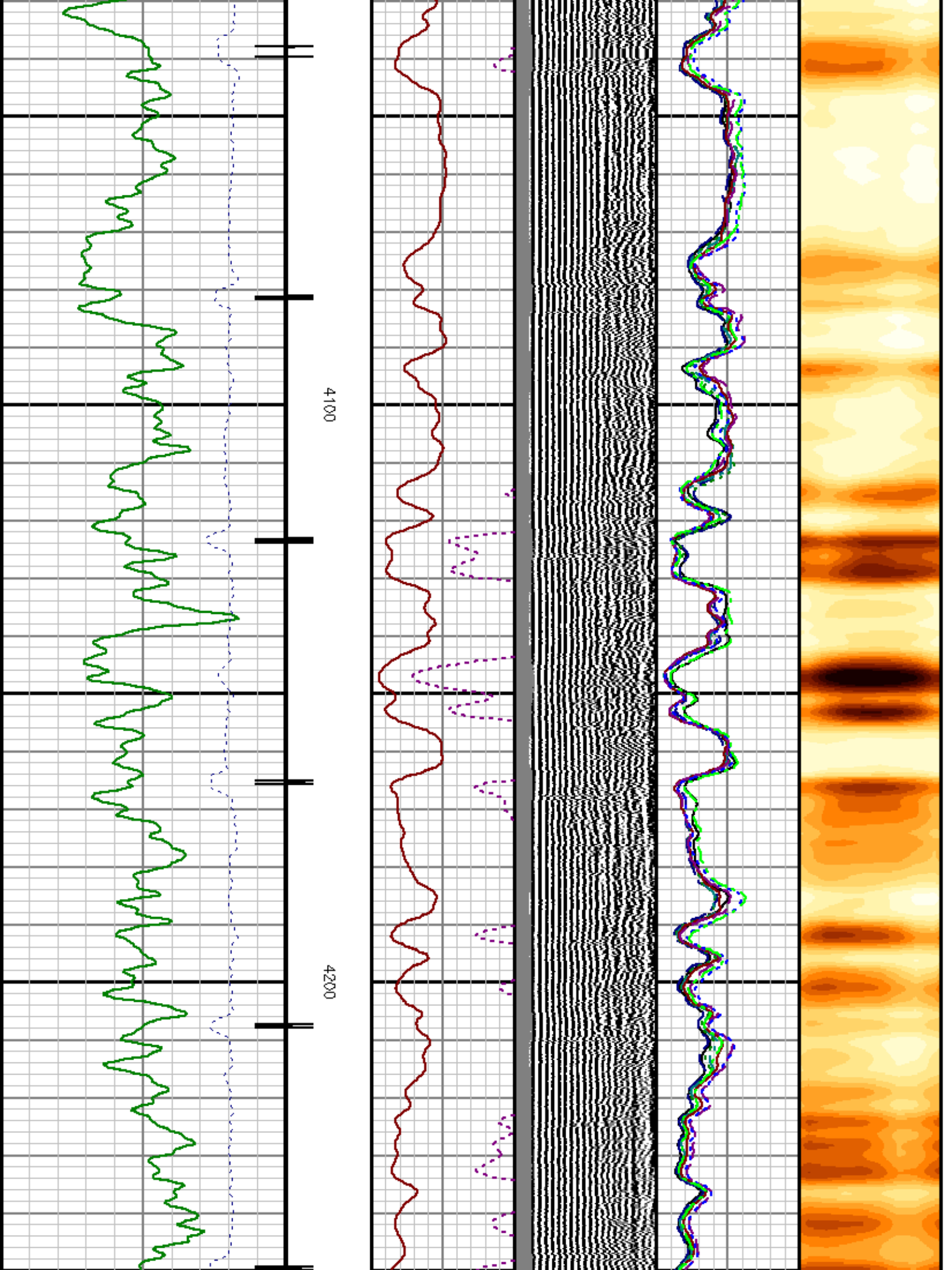
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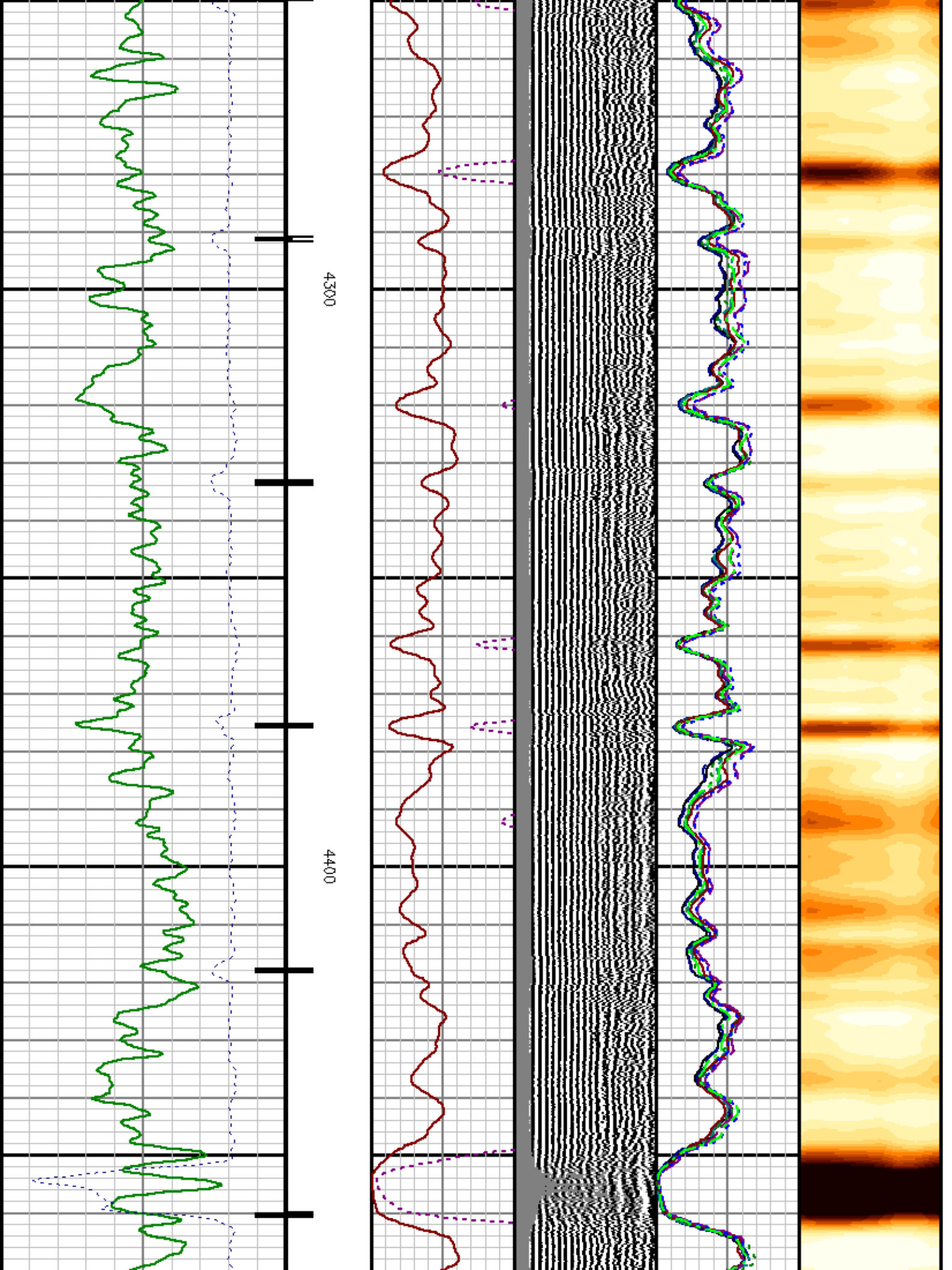
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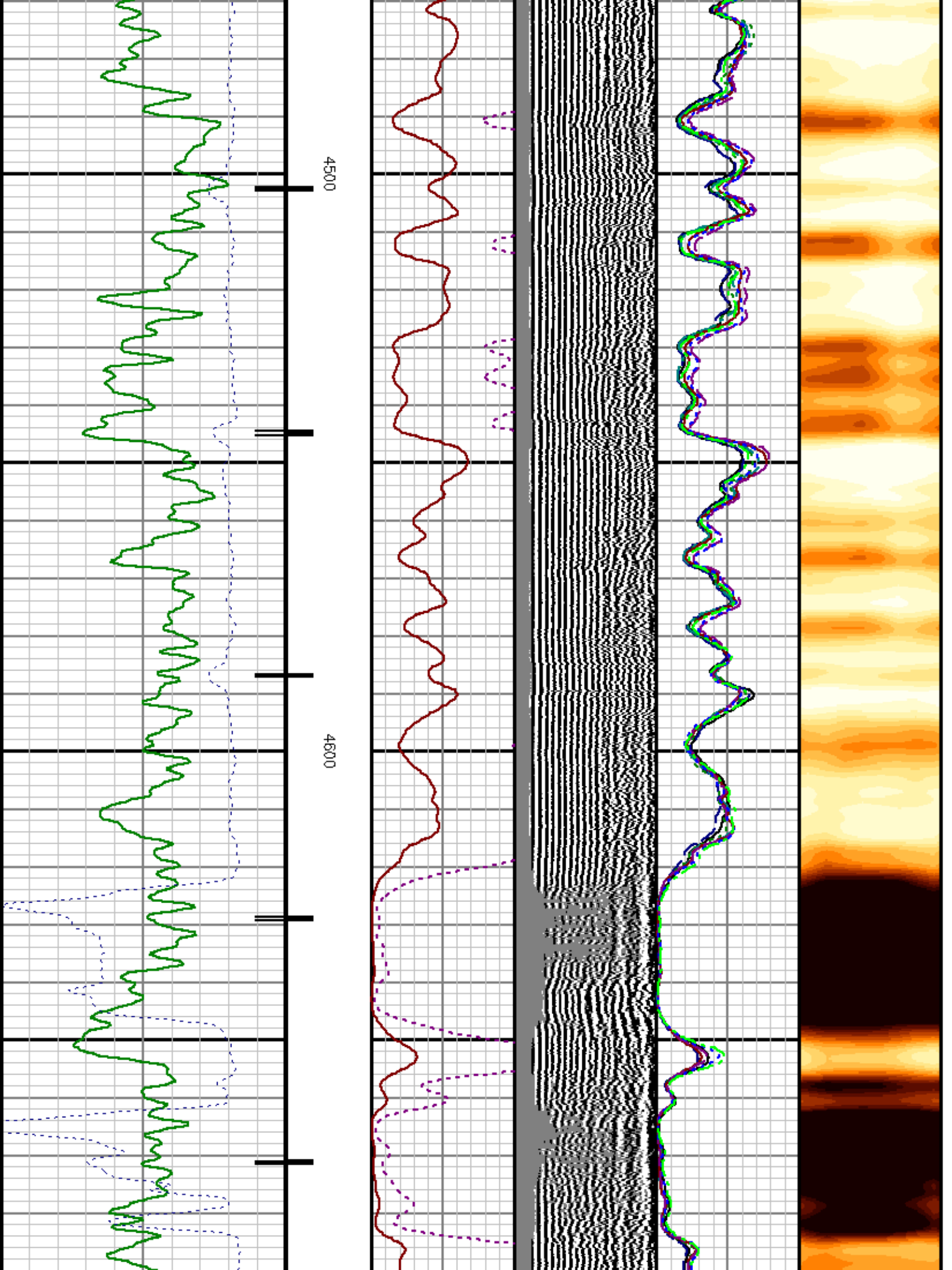


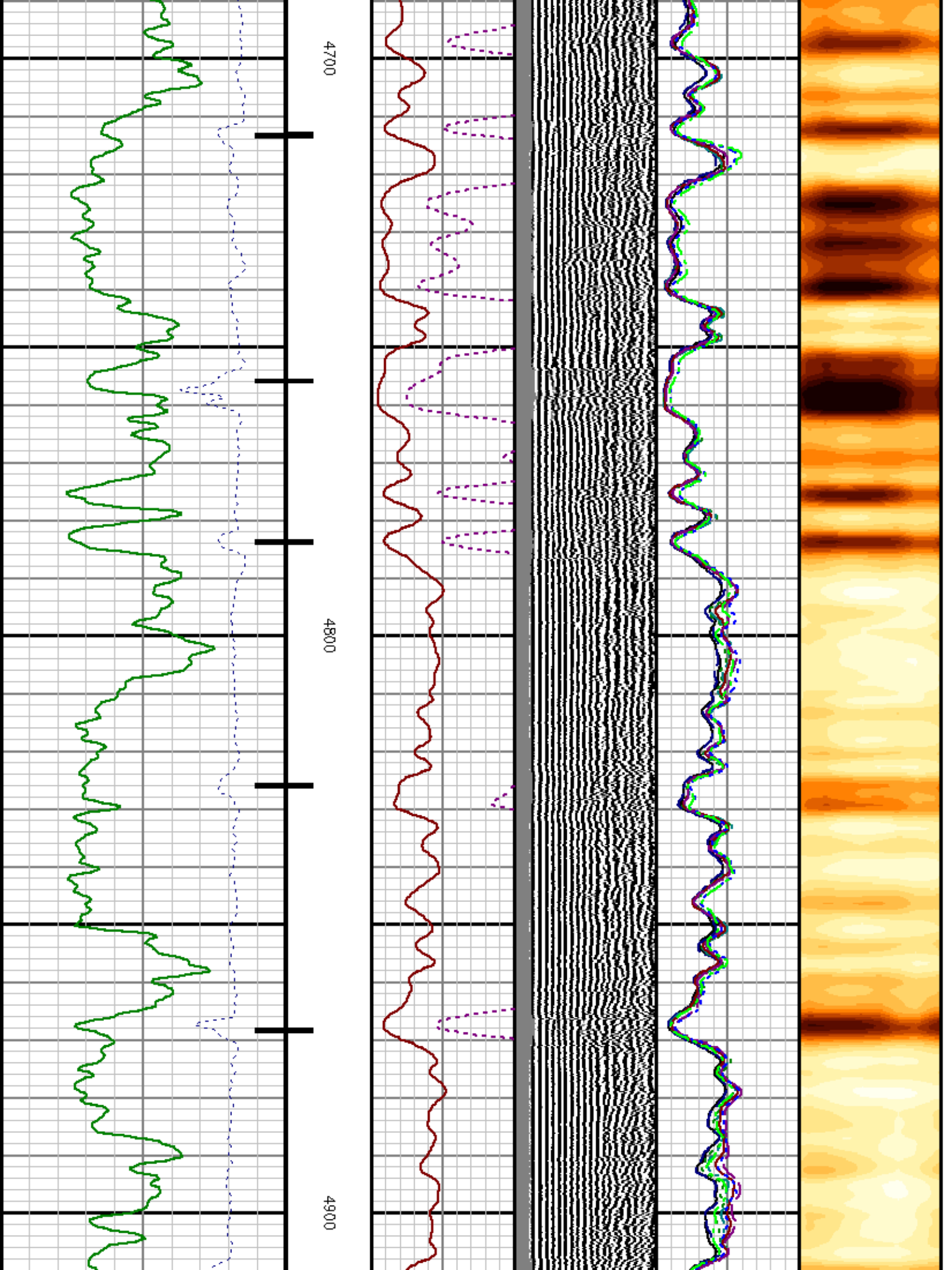


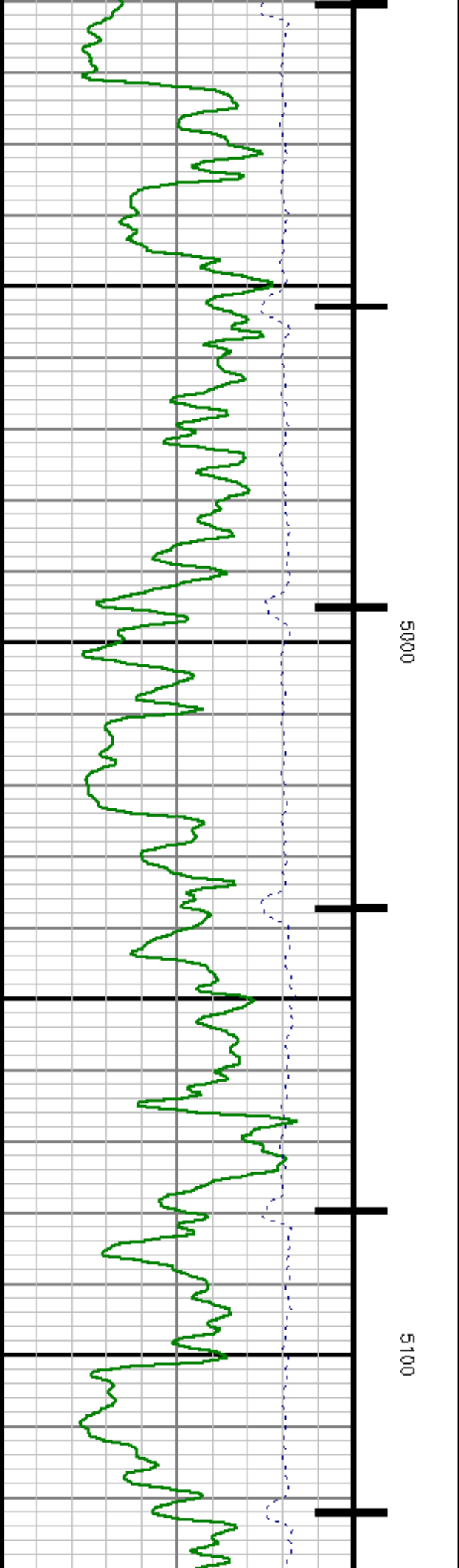
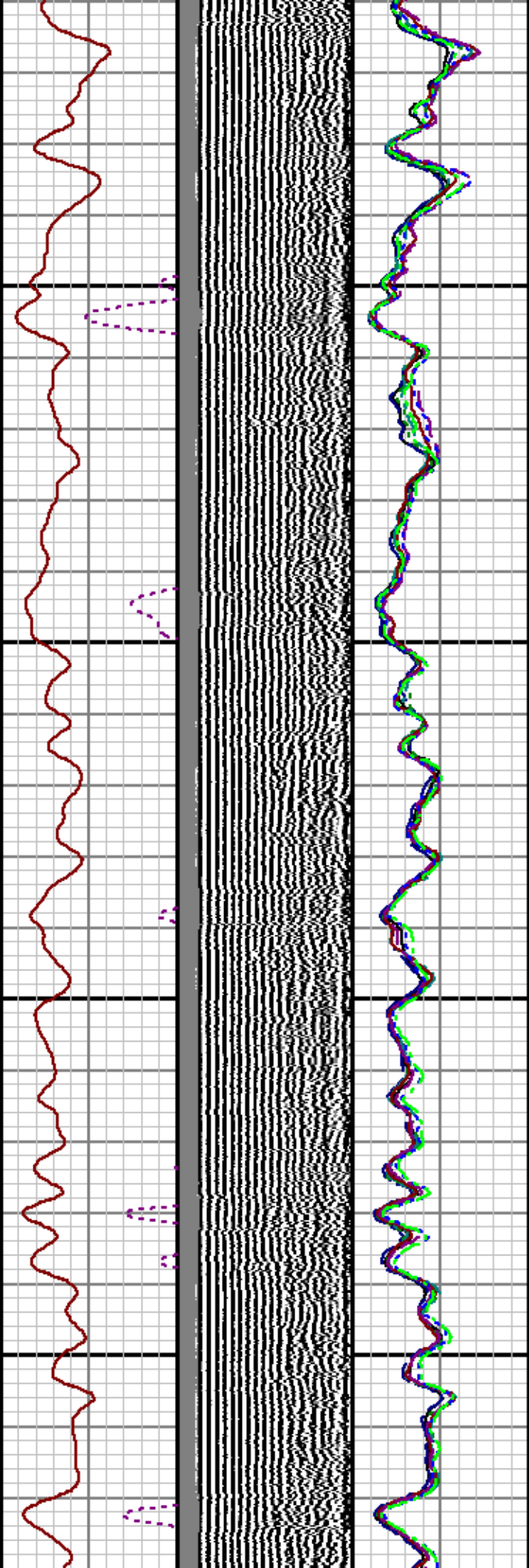


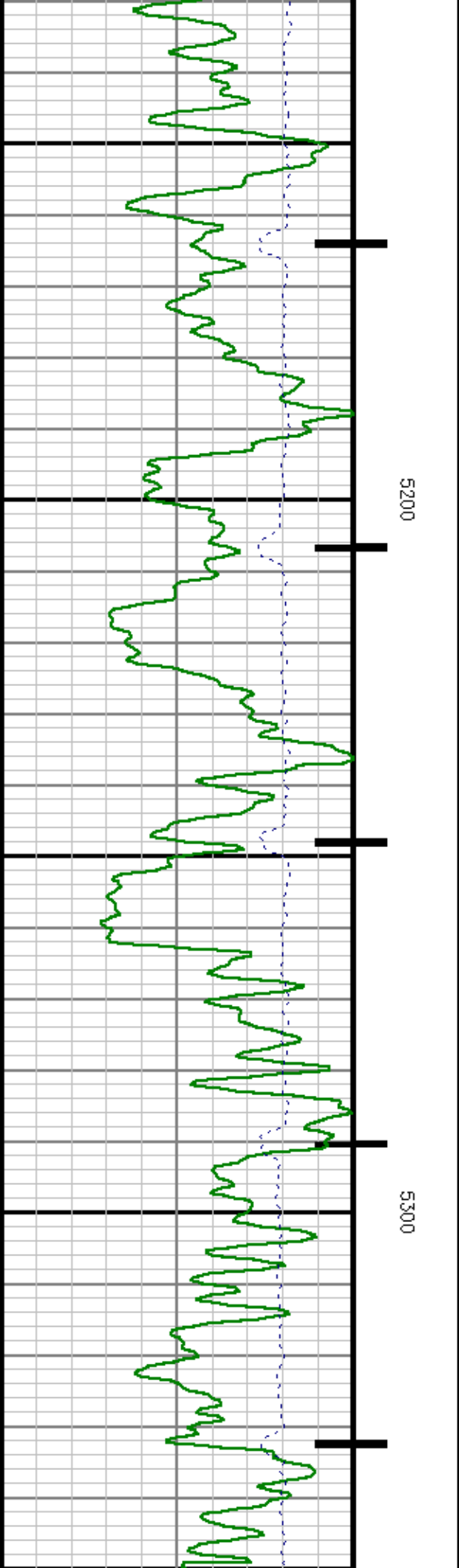
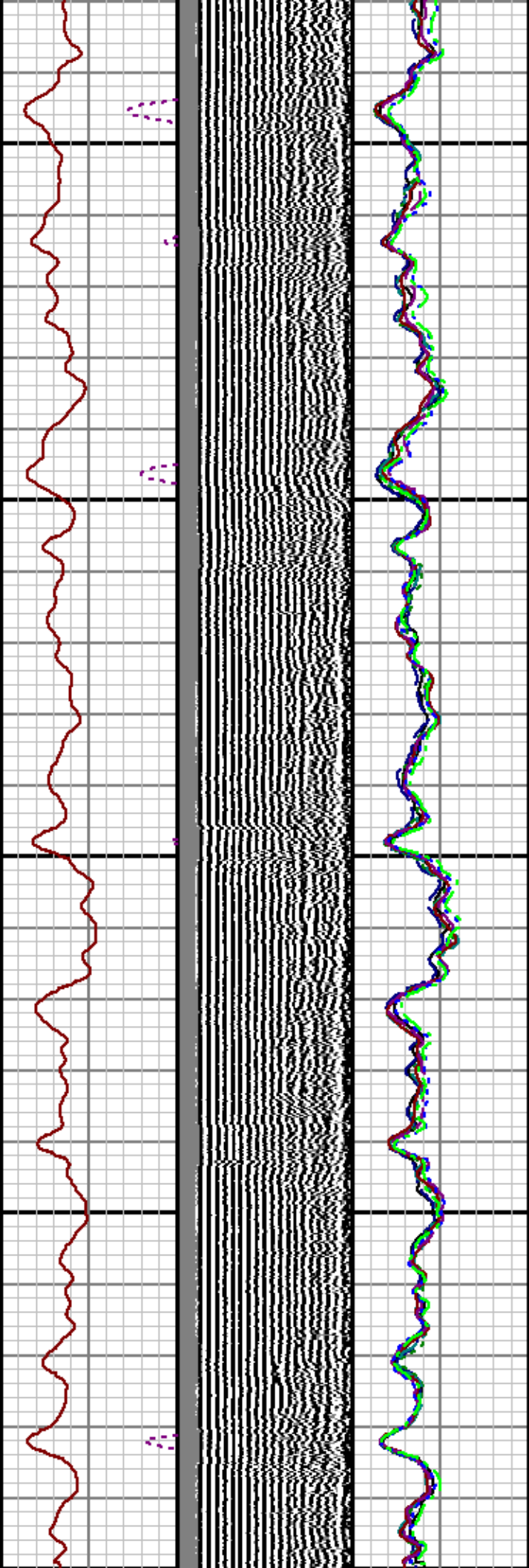
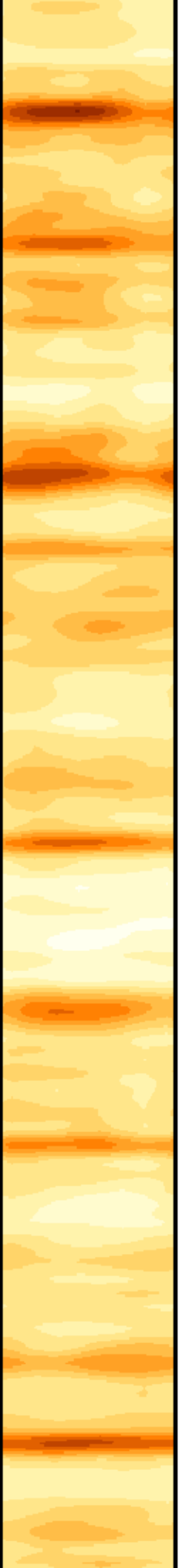


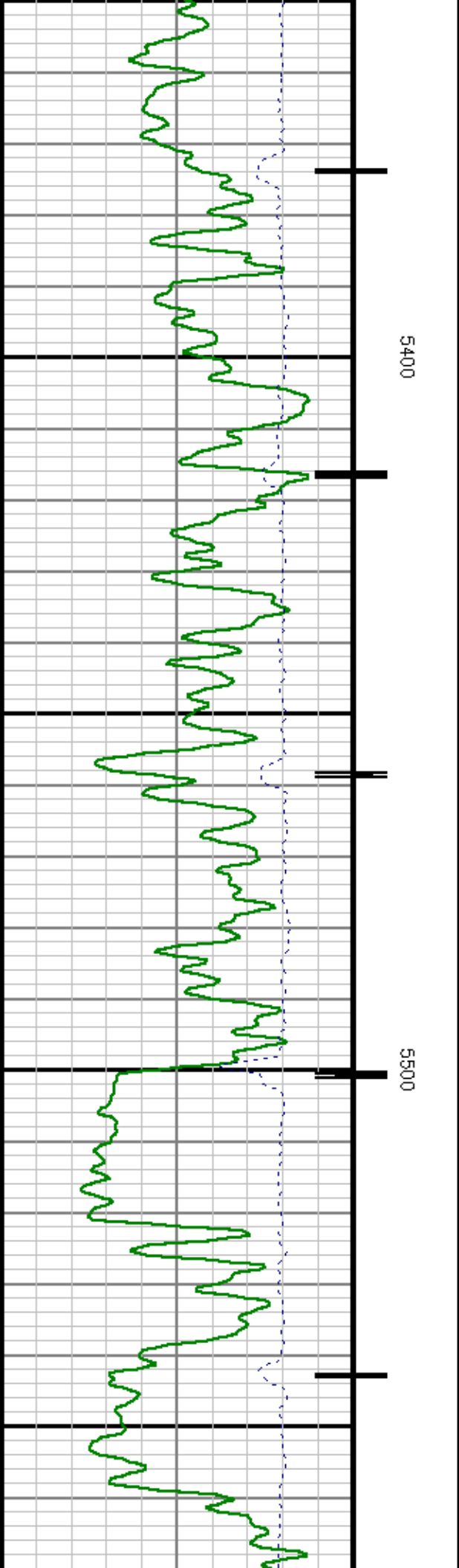
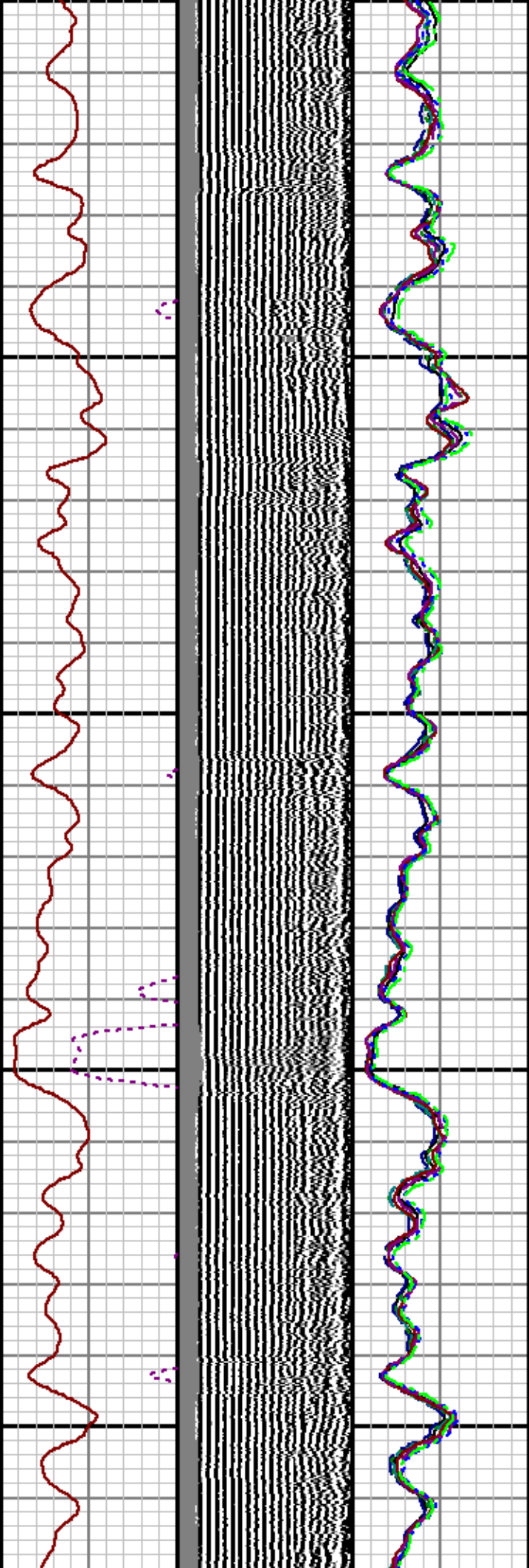
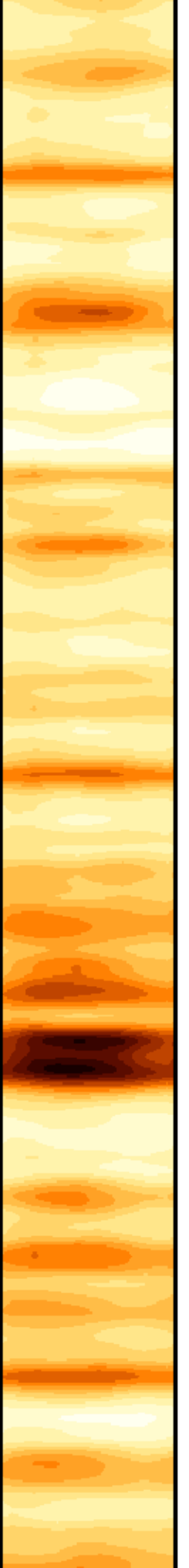


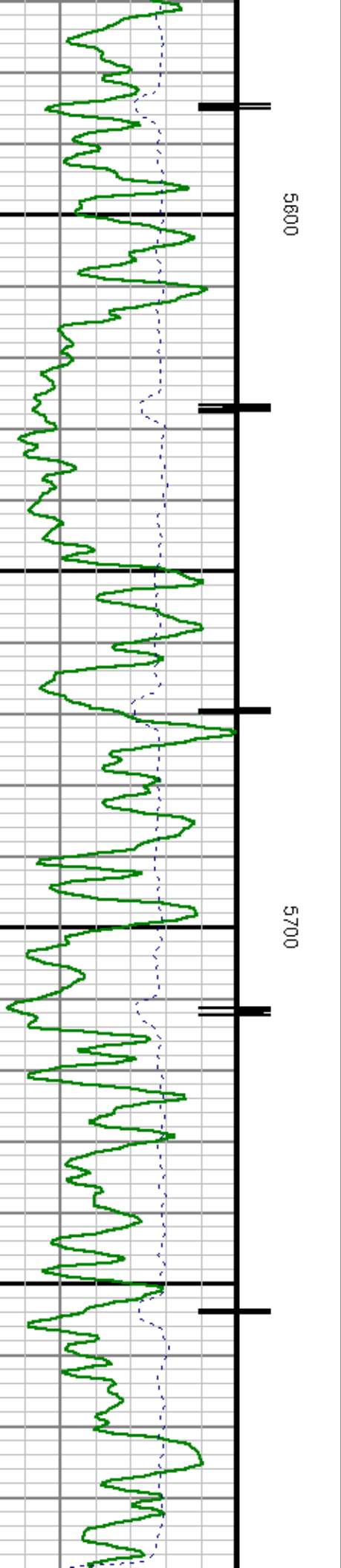
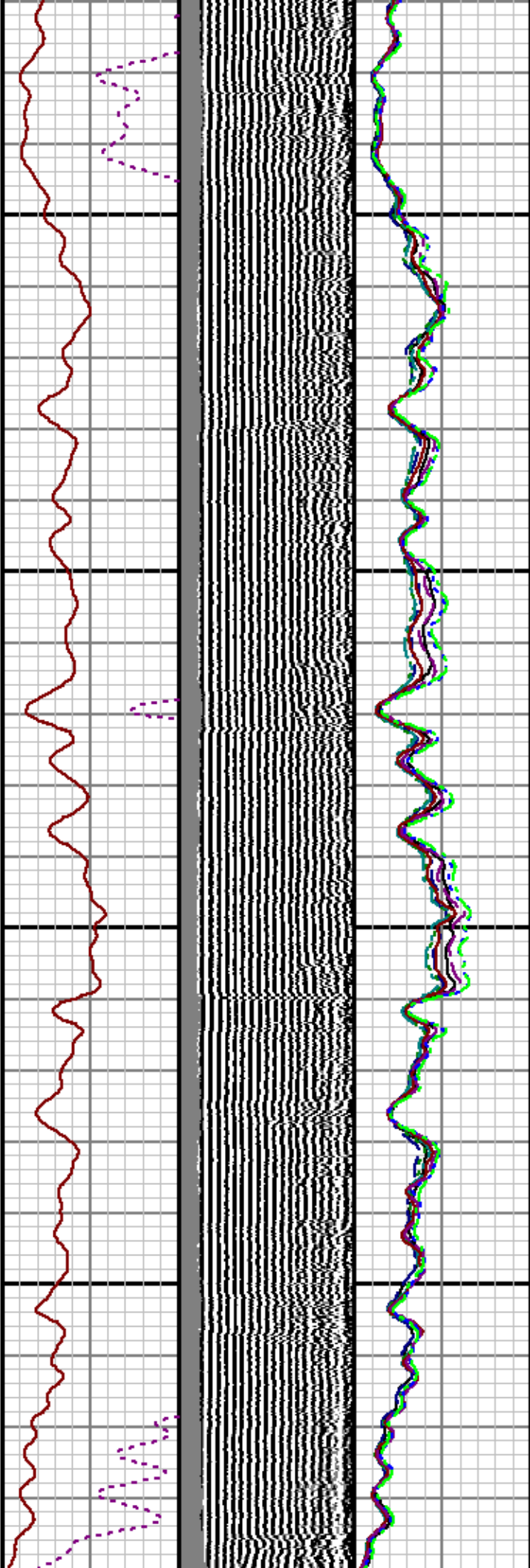
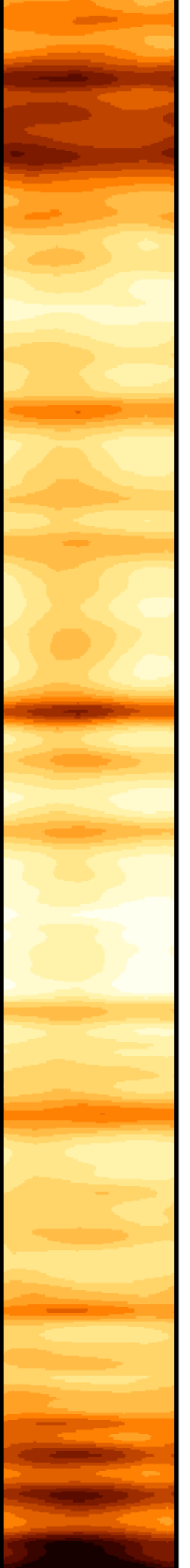


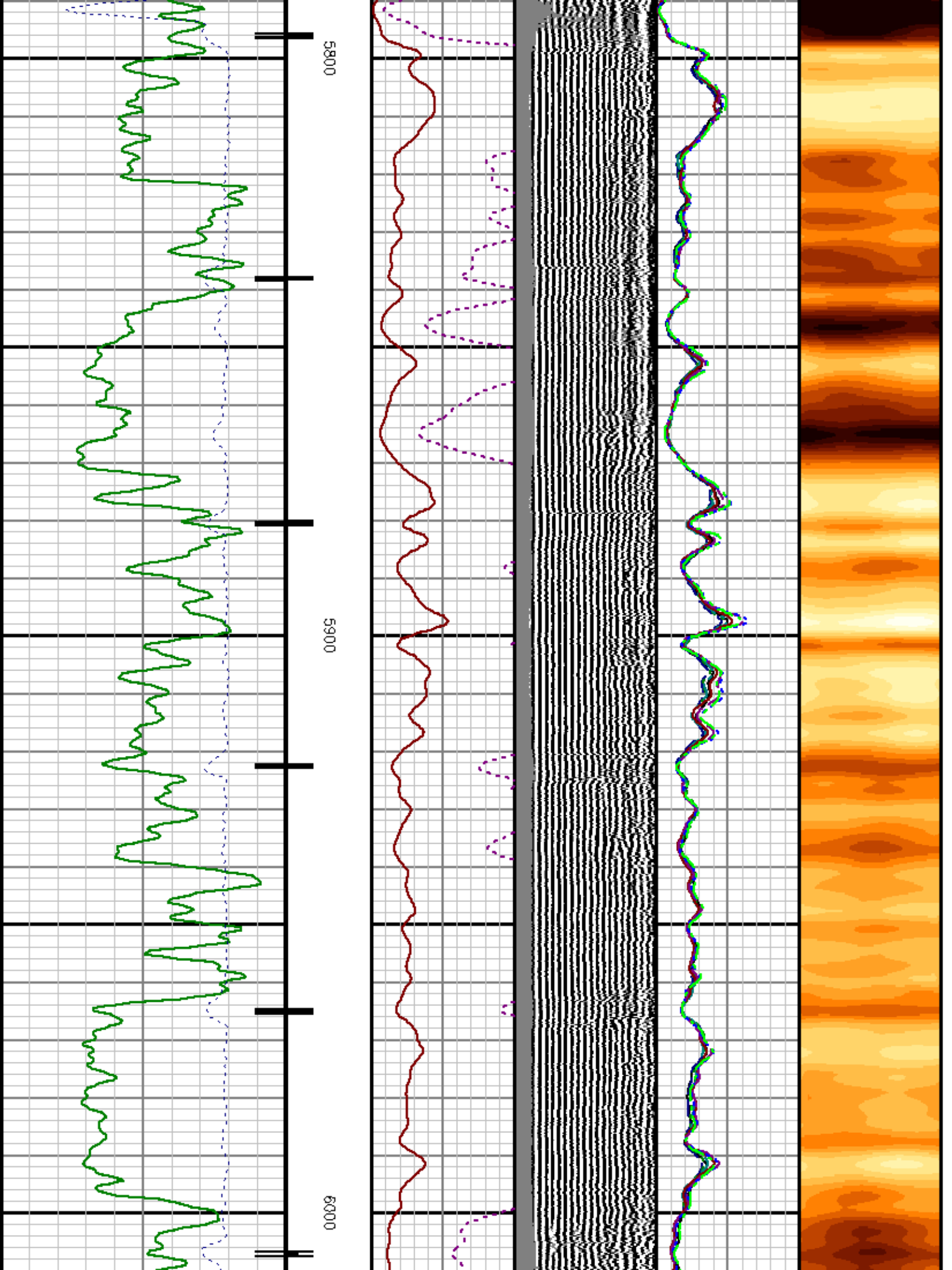


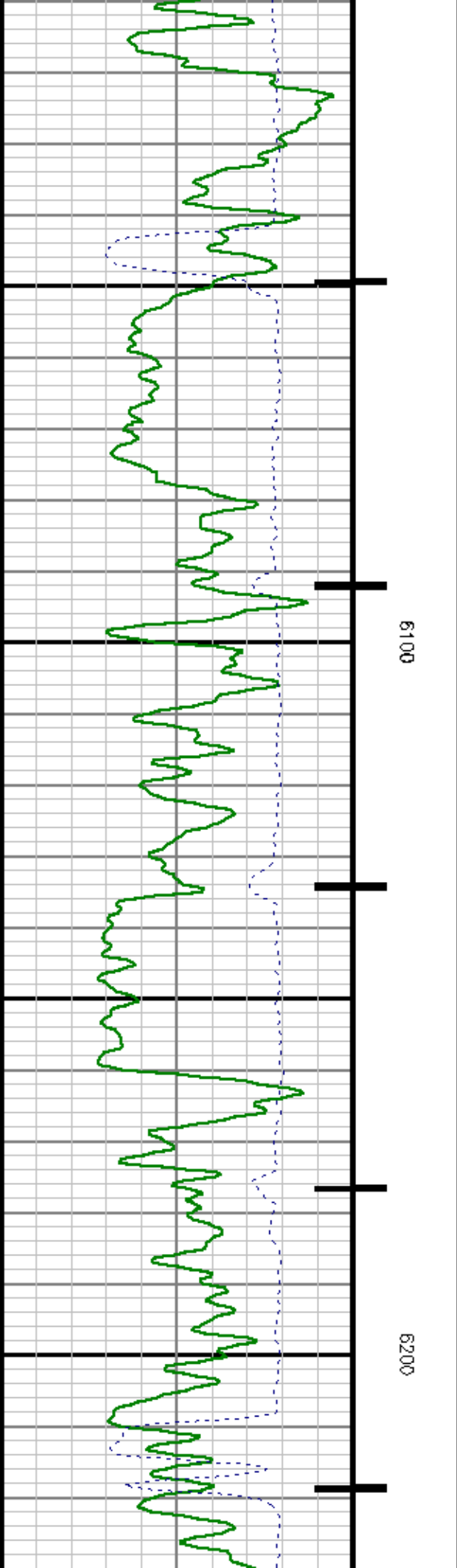
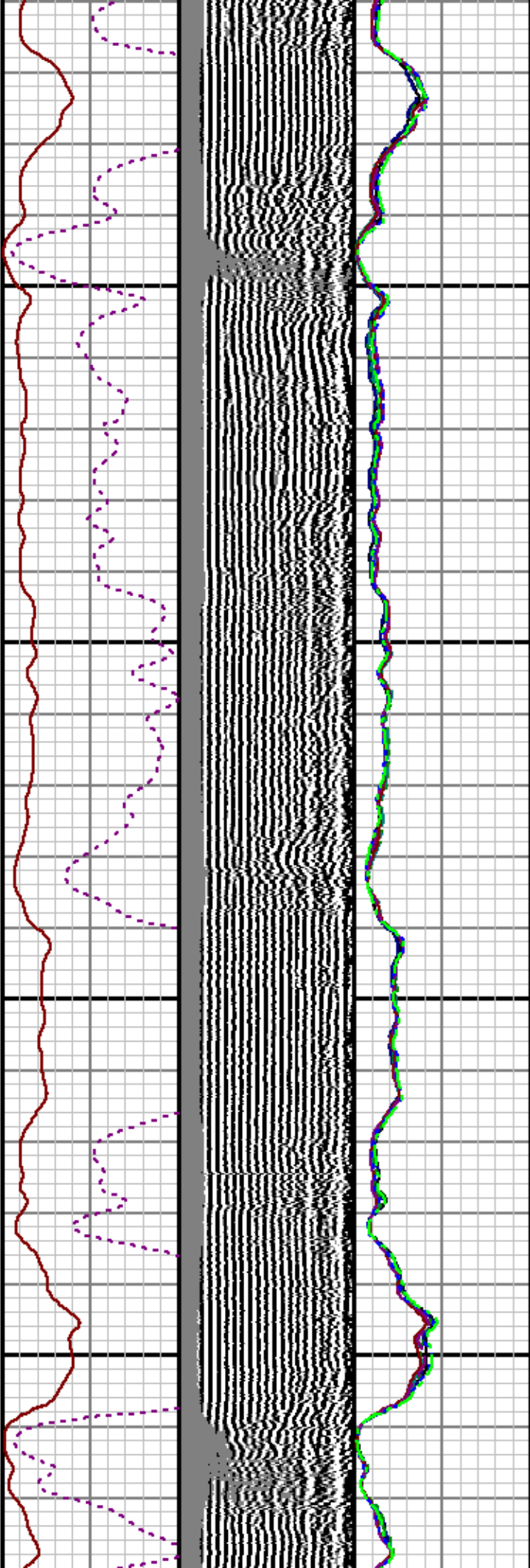


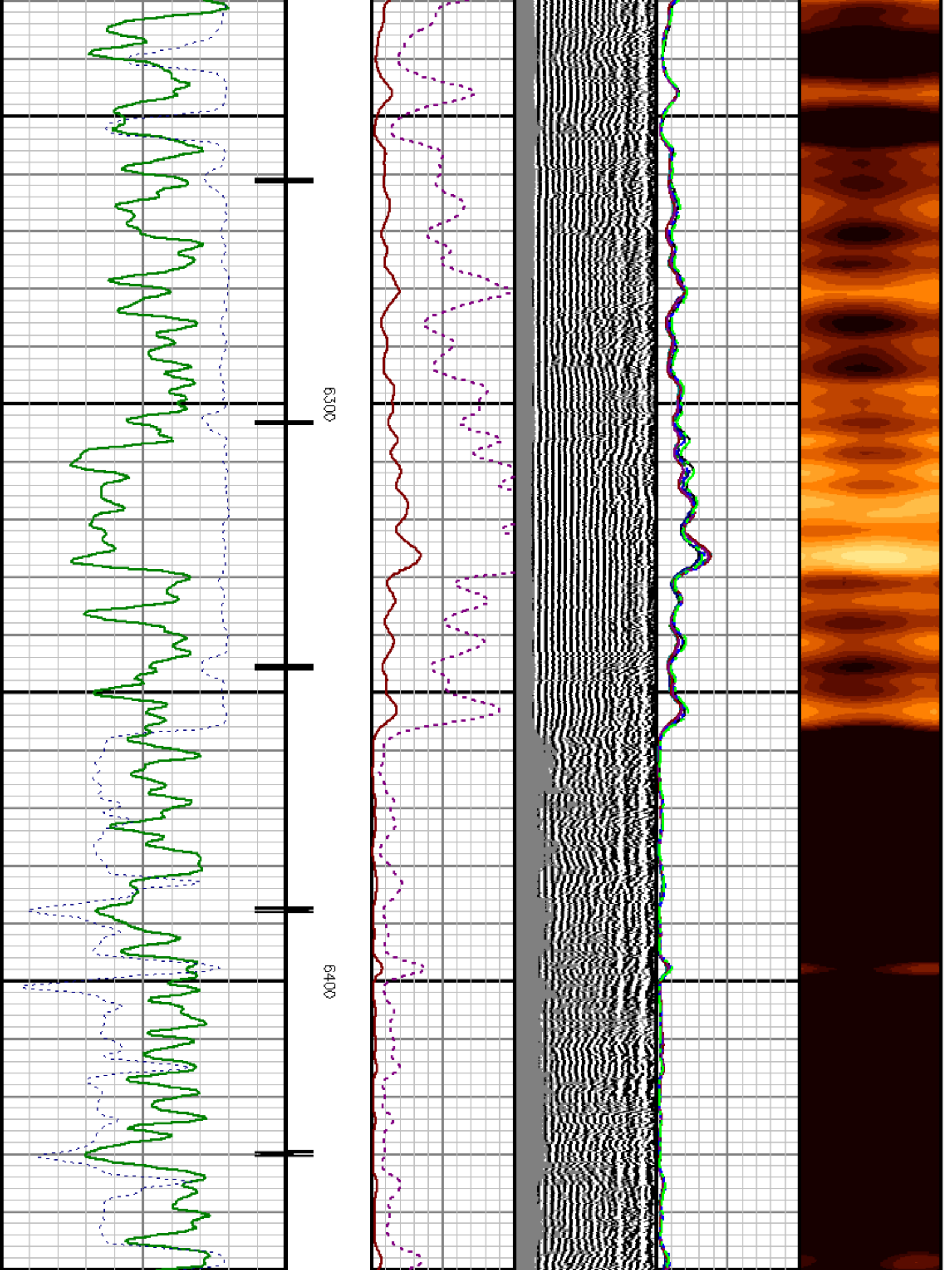


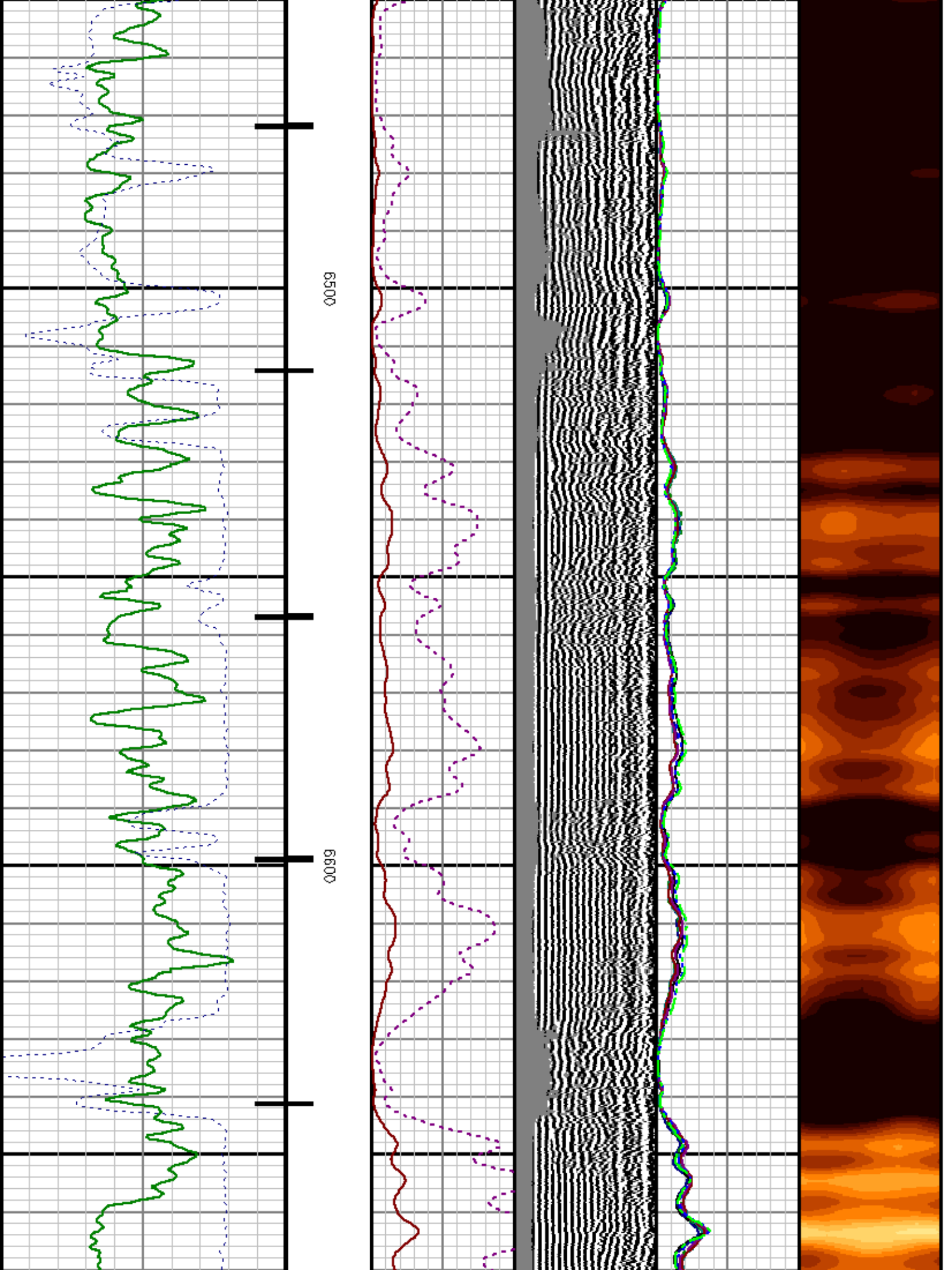


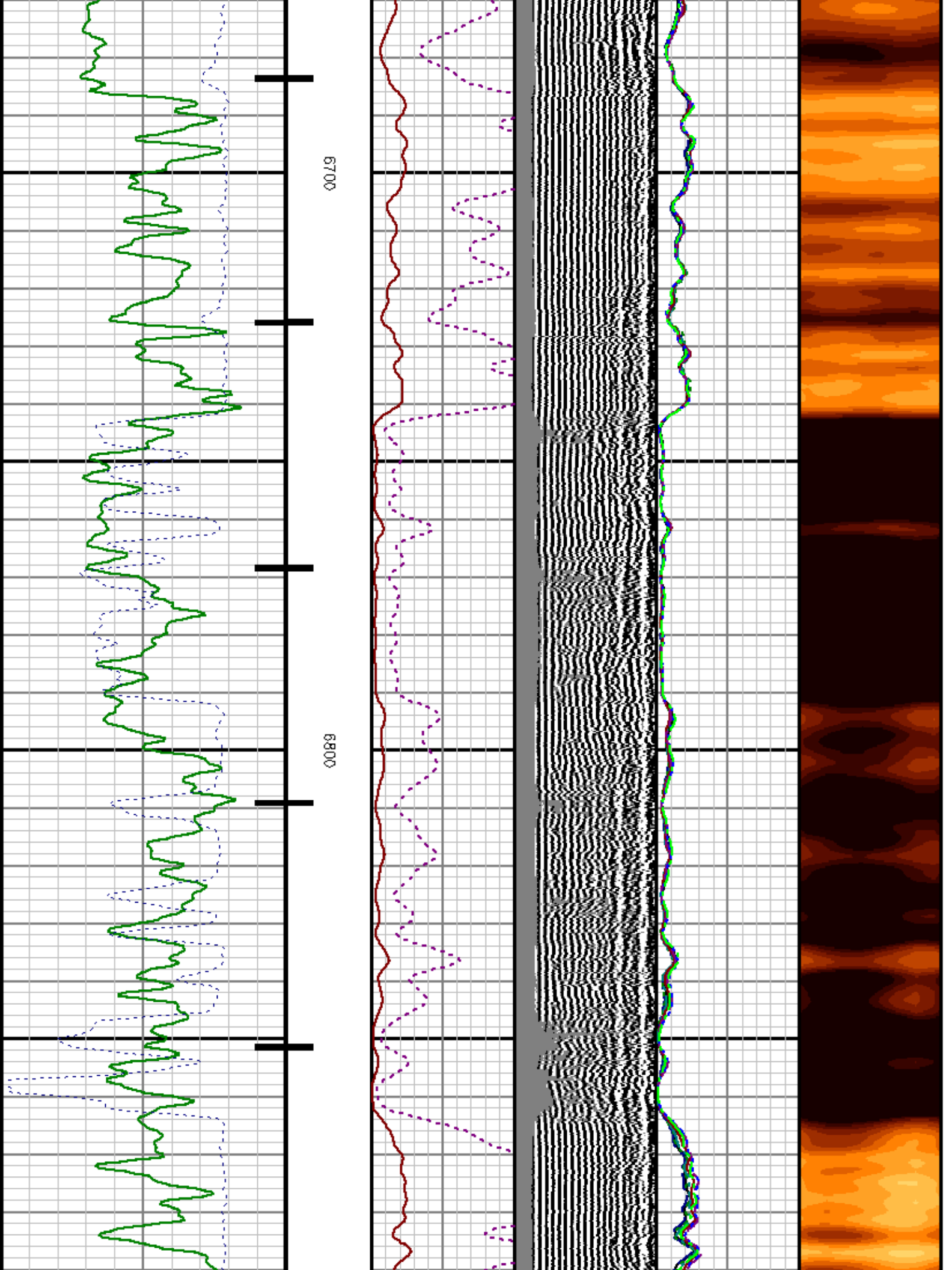


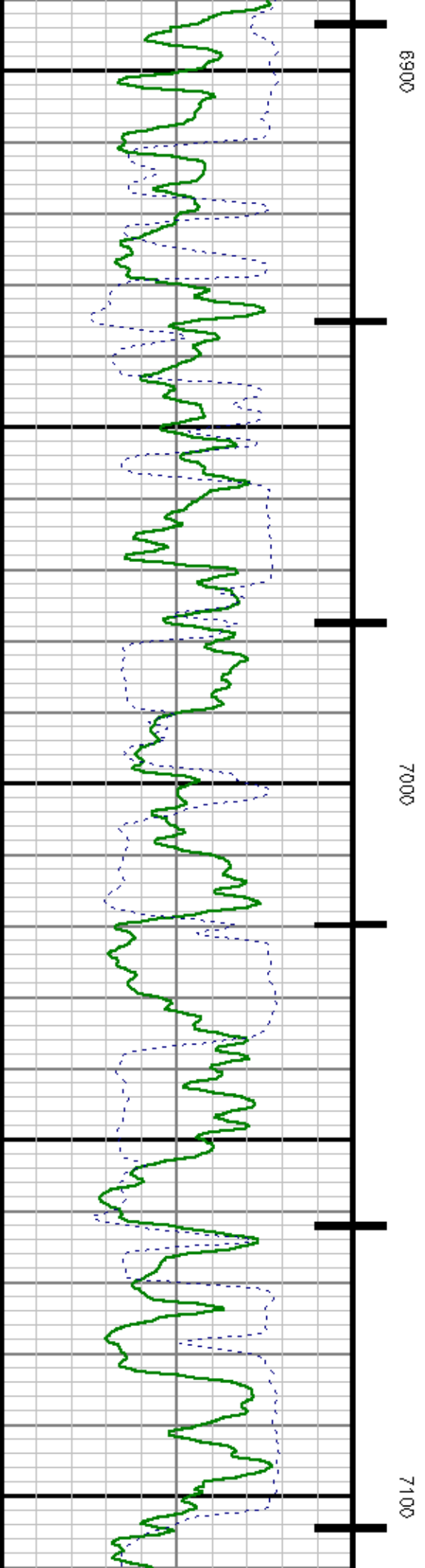
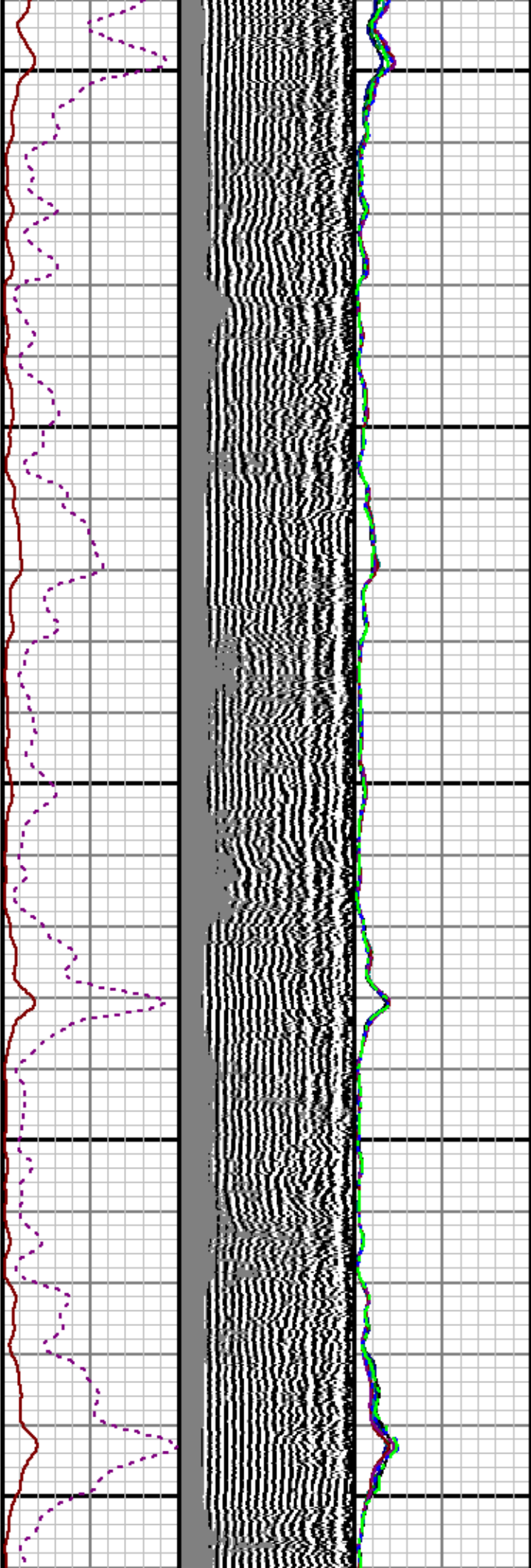


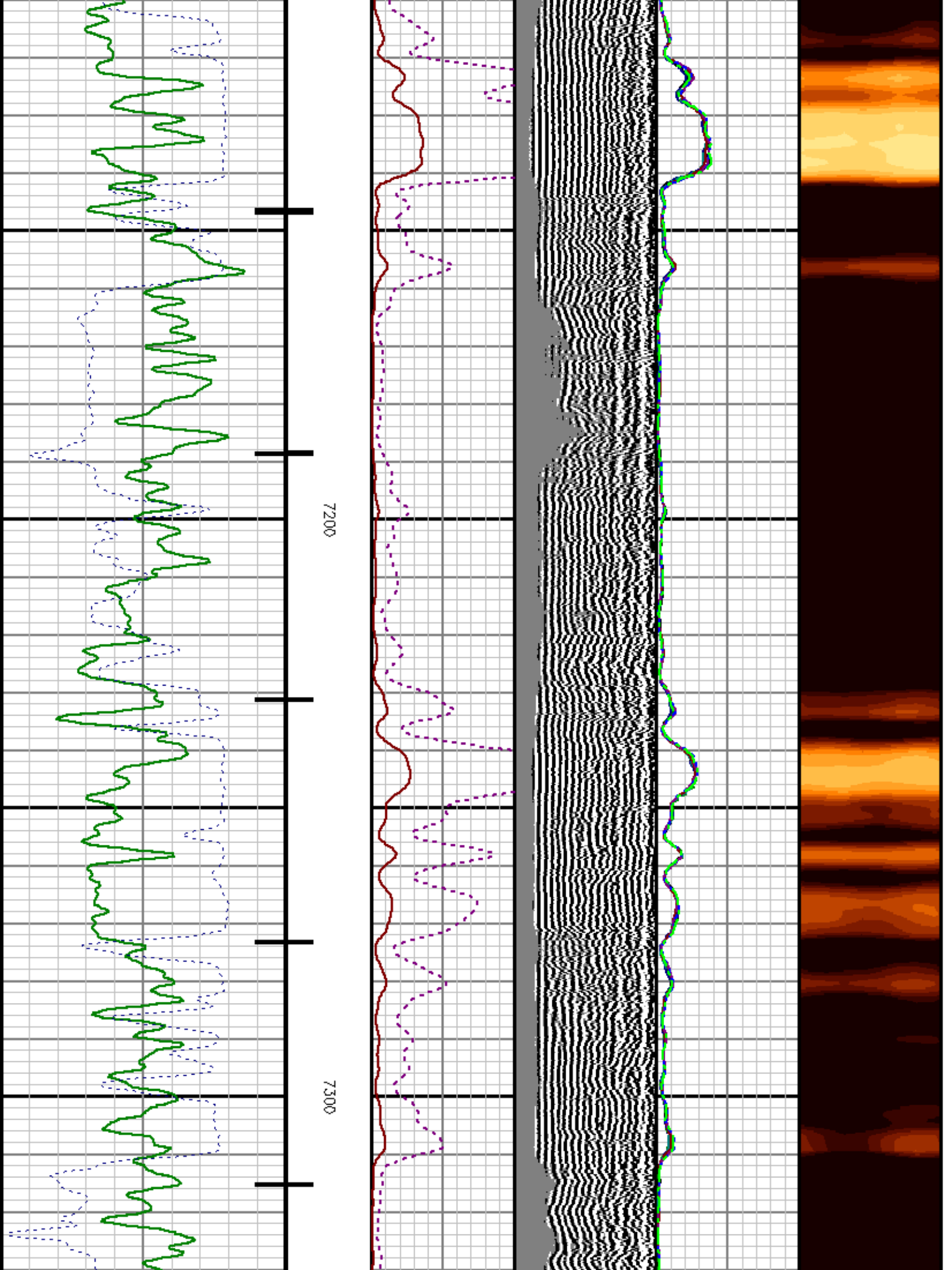


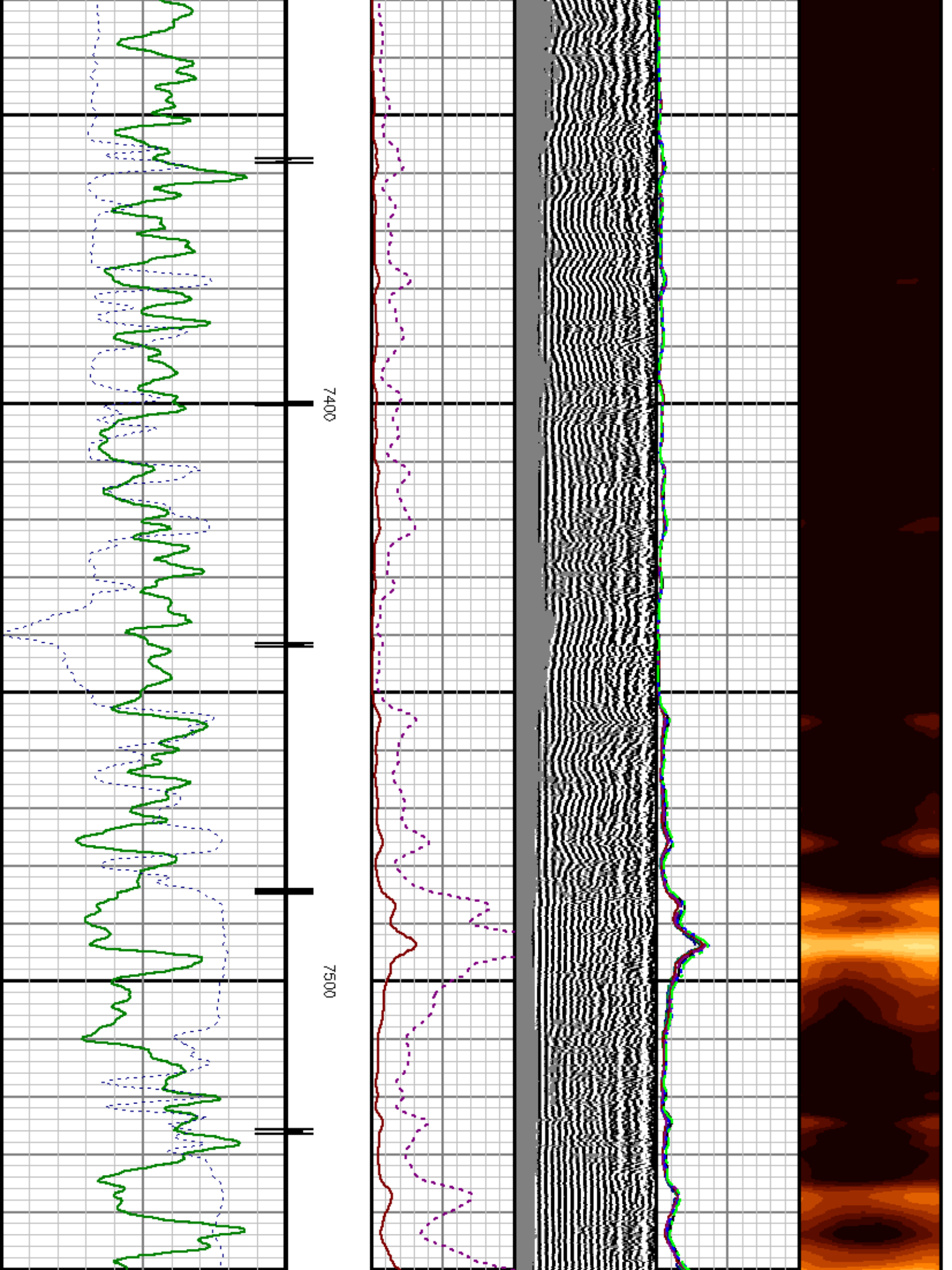


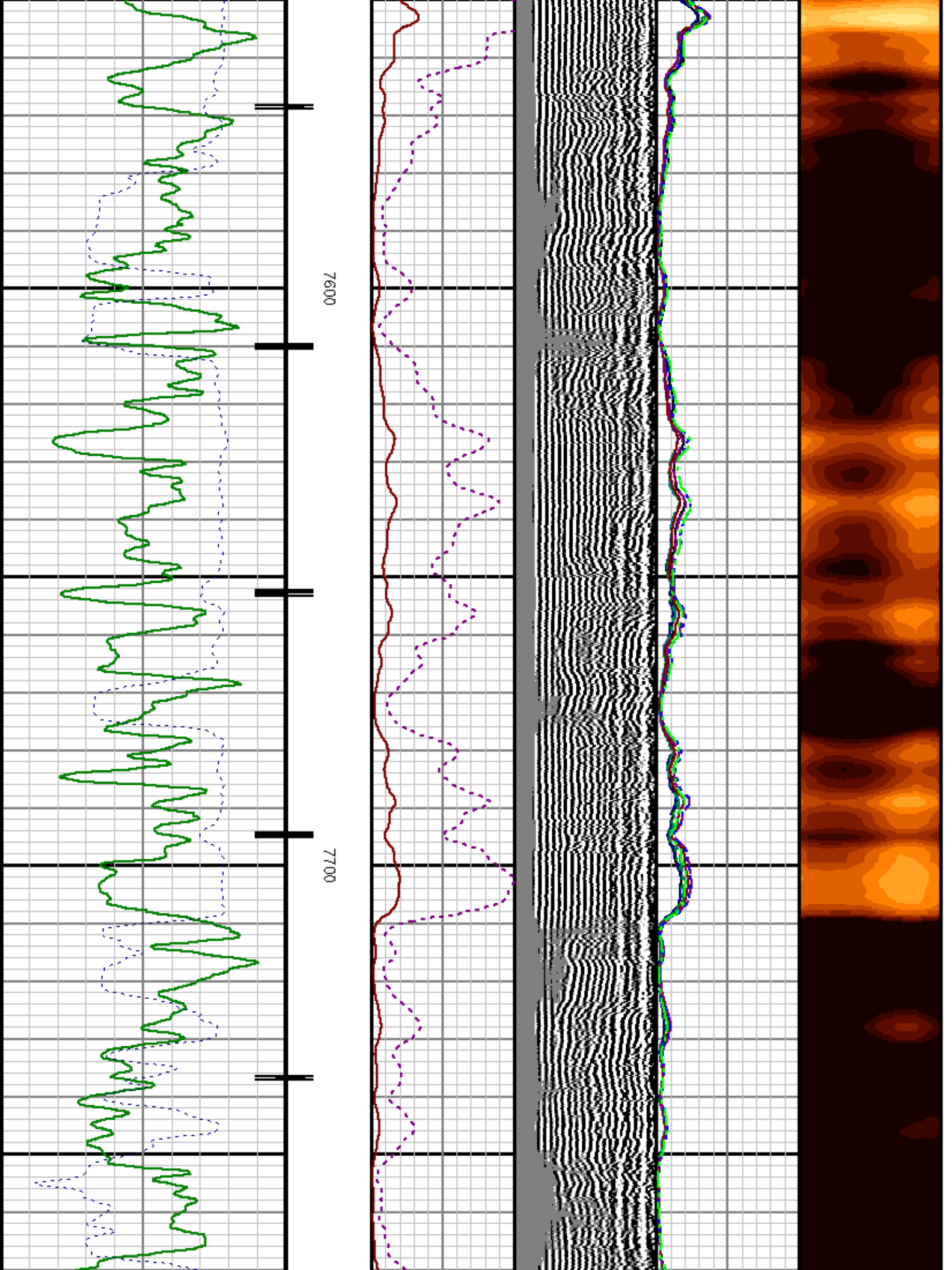


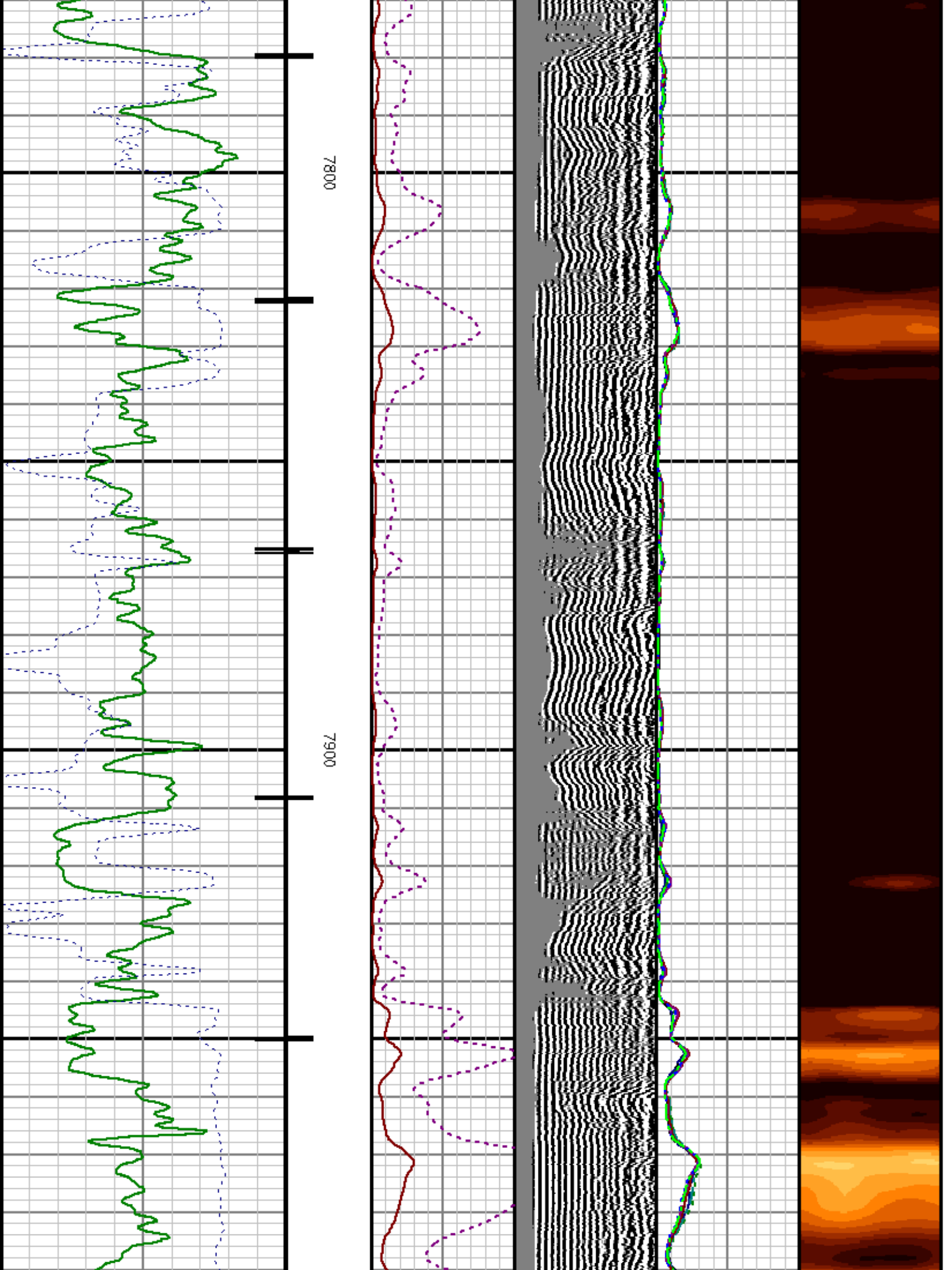












MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	316.900	usec	7799.968	8101.000
RAL	Amp Gate Start Near	200.391	usec	7799.968	8101.000
RAL	Amp Gate Start Radial	200.391	usec	7799.968	8101.000
RAL	Amp Gate Width Far	25.000	usec	7799.968	8101.000
RAL	Amp Gate Width Near	25.000	usec	7799.968	8101.000
RAL	Amp Gate Width Radial	25.000	usec	7799.968	8101.000
RAL	casing od	4.500	inches	7799.968	8101.000
RAL	casing wt	11.800	lbm/ft	7799.968	8101.000
RAL	FB Start Far	291.900	usec	7799.968	8101.000
RAL	FB Start Near	175.391	usec	7799.968	8101.000
RAL	FB Start Radial	175.391	usec	7799.968	8101.000
RAL	FB Thresh Far	10.000	mv	7799.968	8101.000
RAL	FB Thresh Near	4.000	mv	7799.968	8101.000
RAL	FB Thresh Radial	4.000	mv	7799.968	8101.000
RAL	Fluid Travel Time	200.000	usec/ft	7799.968	8100.656

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 : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : WILLIAMS PRODUCTION COMPANY

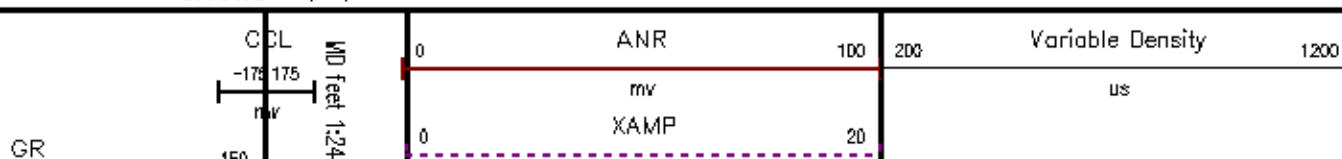
Well : RMF 423-28

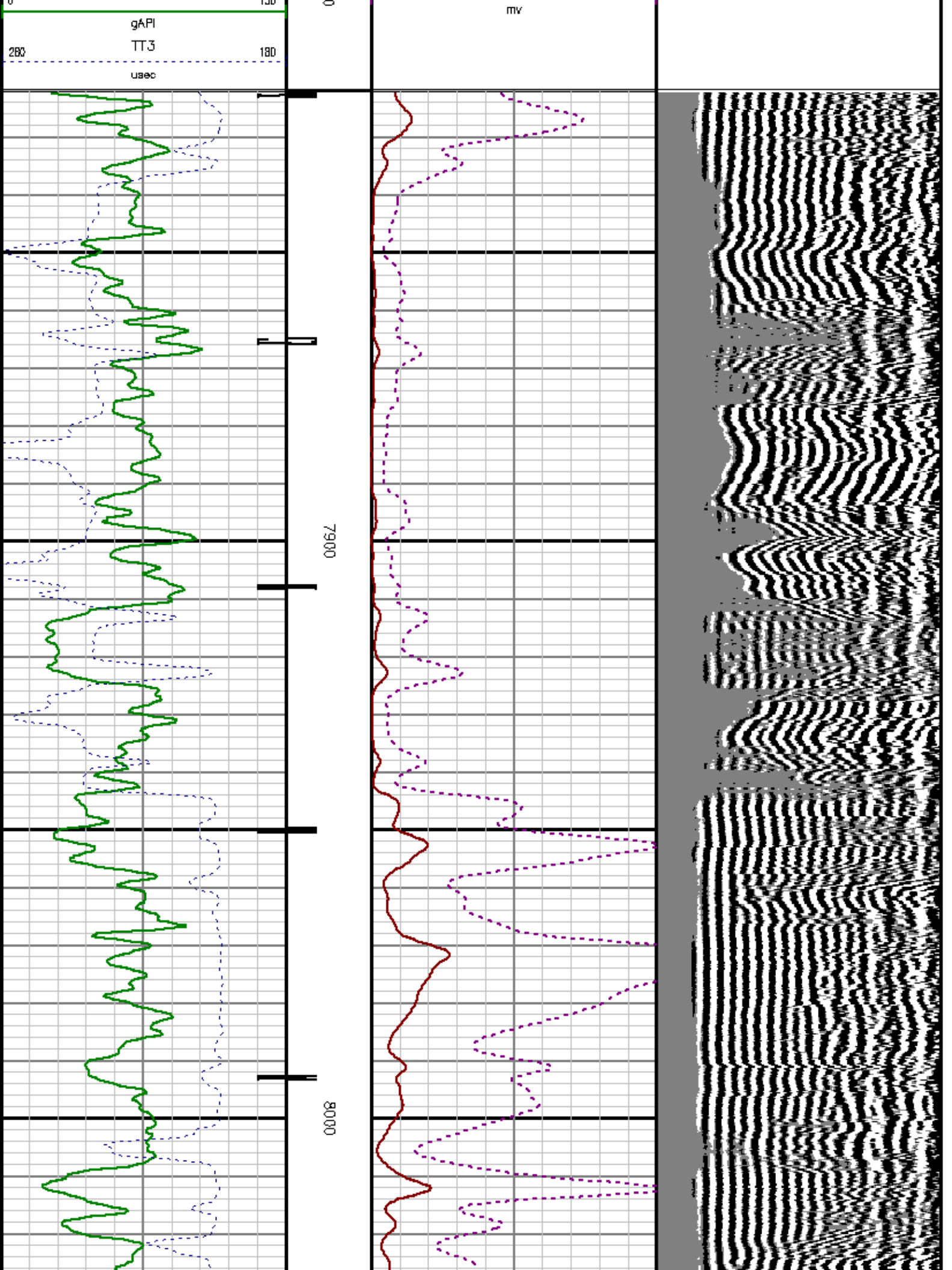
File Name : d:\welldata\rad423\repeat.xtf

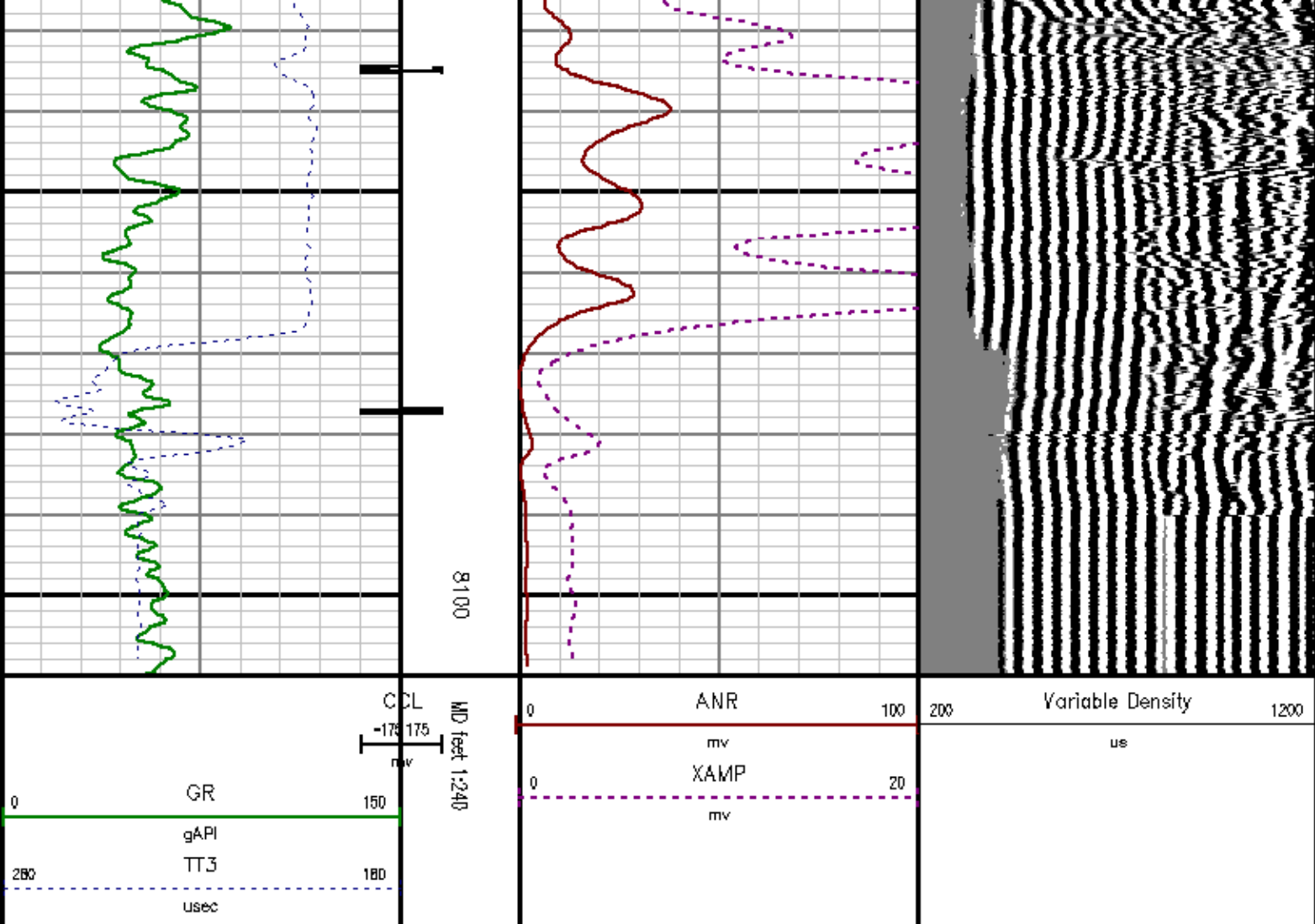
Mode : PlotMgr 5.4.504

Interval : 7822.00 - 8110.00 feet UP

Created : 5/21/2009 8:25:46 AM







CALIBRATION SUMMARY

GAMMA RAY

Verification File: C:\cgsa\calver\GR\120Y1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu May 14 14:14:51 2009

TOOL SERIES: 1426XA ASSET: 120 SEQ: Y1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
BA 905	75.16	317.14	0.778	58.50	246.84	188.34

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 (1426XA)

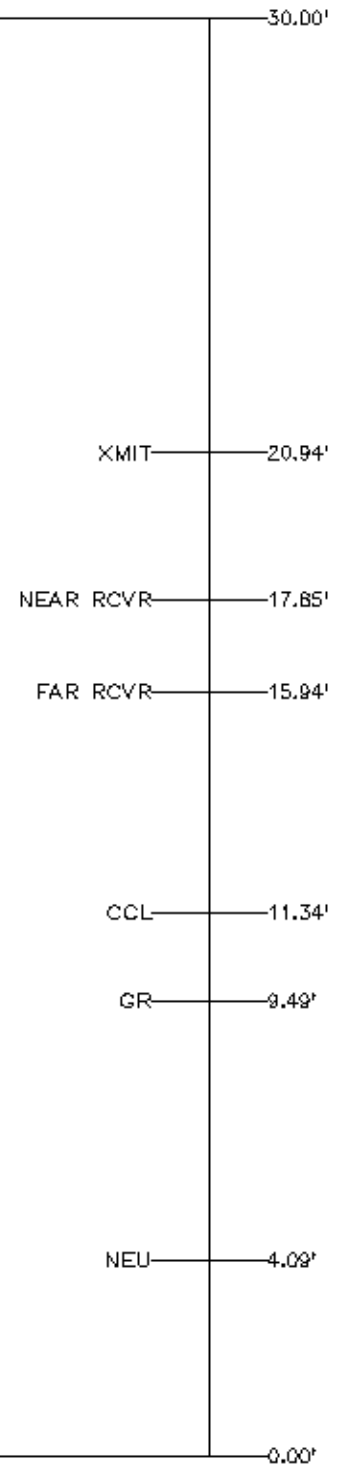
CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Probe GR/CCL/NEU (2459XA)

CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



Total Length: 30.00'
 Total Weight: Not Available
 Max Diameter: 0' 3.12"



Baker Atlas



Company	WILLIAMS PRODUCTION COMPANY			File No:	1159
Well	RWF 423-28				
Field	RULISON			API No:	05045171910000
County	GARFIELD	State	COLORADO		
Location				Elevations	
SURFACE: 427' FSL & 663' FWL				KB	5552 ft
BOTTOM HOLE: 1332' FSL & 1995' FWL				DF	5551 ft
				GL	5535 ft
SEC	28	TWP	8S	RGE	94W