



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH060784	Company Well	WPX ENERGY JOLLEY KP 414-9
API No: 05045190710000	Field County	KOKOPELLI GARFIELD
	Location	State COLORADO
9 6S 91W KP 11-16 pad NABORS 574	SHL: 587' FNL 697' FNL SECTION 16 BHL: 513' FSL 670' FNL SECTION 9 SEC 9 TWP 6S RGE 91W	Other Services RPM
Permanent Datum	G.L. _____ Elevation 6632 ft	Elevations KB 6658 ft DF NA GL 6632 ft
Log Measured From	K.B. _____ 26 ft	
Drill Measured From	KELLY BUSHING	

Date	07 SEP 2012
Run	ONE
Service Order	575191
Depth Driller	7369 ft
Depth Logger	7339 ft
Bottom Logged Interval	7339 ft
Top Logged Interval	0 ft
Time Started	930
Time Finished	1230
Operator Rig Time	3 HOURS
Type of Fluid in Hole	WATER
Fluid Density	NA
Salinity	NA
Fluid Level	FULL
Logged Cement Top	NA
Wellhead Pressure	0 psi
Maximum Hole Deviation	NA
Nominal Logging Speed	45 fpm
Maximum Recorded Temperature	188 degF
Reference Log	NA
Reference Log Date	NA
Equipment No.	4271
Location	GRAND JUNCTION
Recorded By	JACOB STALEY
Witnessed By	MR. JEFF BRADY

- 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
13.5 In	0 ft	1332 ft
7.875 In	0 ft	7369 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In	NA	NA	0 ft	1332 ft
4.5 In	NA	NA	0 ft	7369 ft

Remarks

ALL DATA WAS DEPTH SHIFTED TO PUT THE TOP CCL MARK ON DEPTH WITH GROUND LEVEL WITH A SHIFT OF +8 FT

LOGGED WITH 0 PSI AT WELLHEAD

BHT = 188 DEG F

SJ = 3838'-3858'

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1428XA	10124106	CENT
1	1	GR/CCL	2459XA	10404544	CENT
0	0				
0	0				
0	0				
0	0				
0	0				

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	308.000	usec	36.062	7368.000
RAL	Amp Gate Start Near	200.000	usec	36.062	7368.000
RAL	Amp Gate Start Radial	200.000	usec	36.062	7368.000
RAL	Amp Gate Width Far	25.000	usec	36.062	7368.000
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RAL	casing od	4.500	inches	36.062	7368.000
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RAL	FB Start Radial	175.391	usec	36.062	7368.000
RAL	FB Thresh Far	10.000	mv	36.062	7368.000
RAL	FB Thresh Near	4.000	mv	36.062	7368.000
RAL	FB Thresh Radial	4.000	mv	36.062	7368.000
RAL	Fluid Travel Time	200.000	usec/ft	36.062	7367.937

DEPTH OFFSETS

(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 : WPX ENERGY

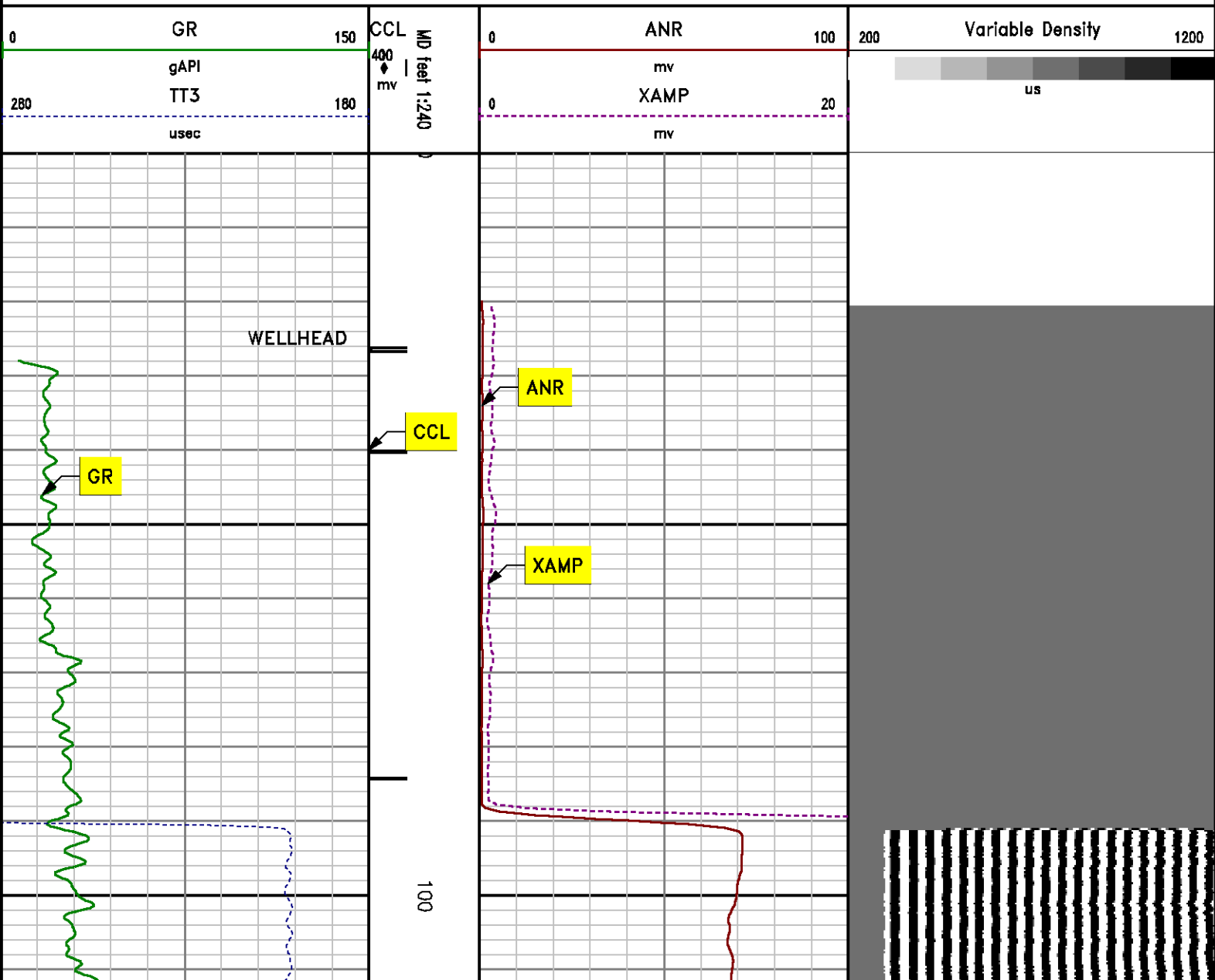
Well : JOLLEY KP 414-9

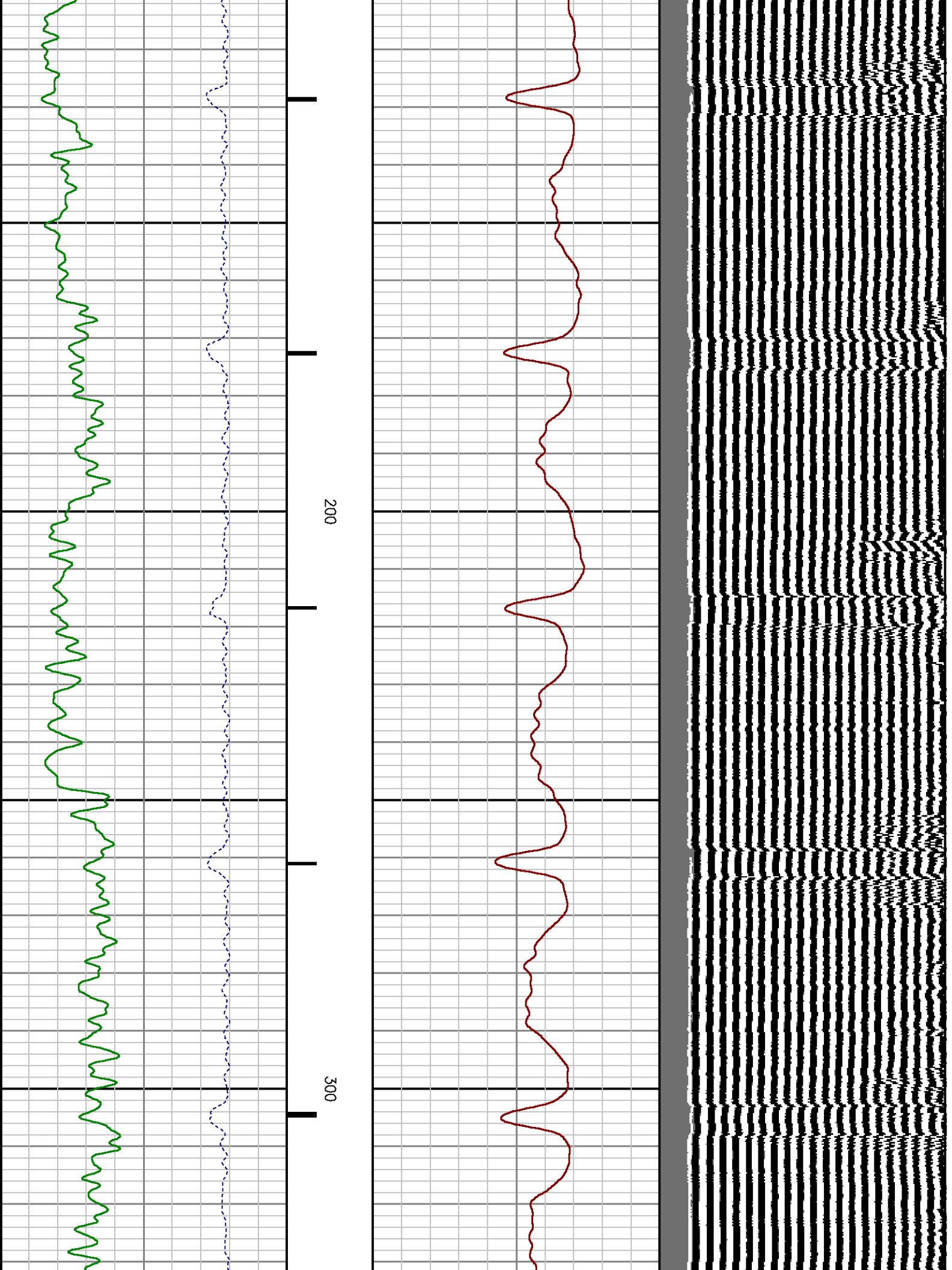
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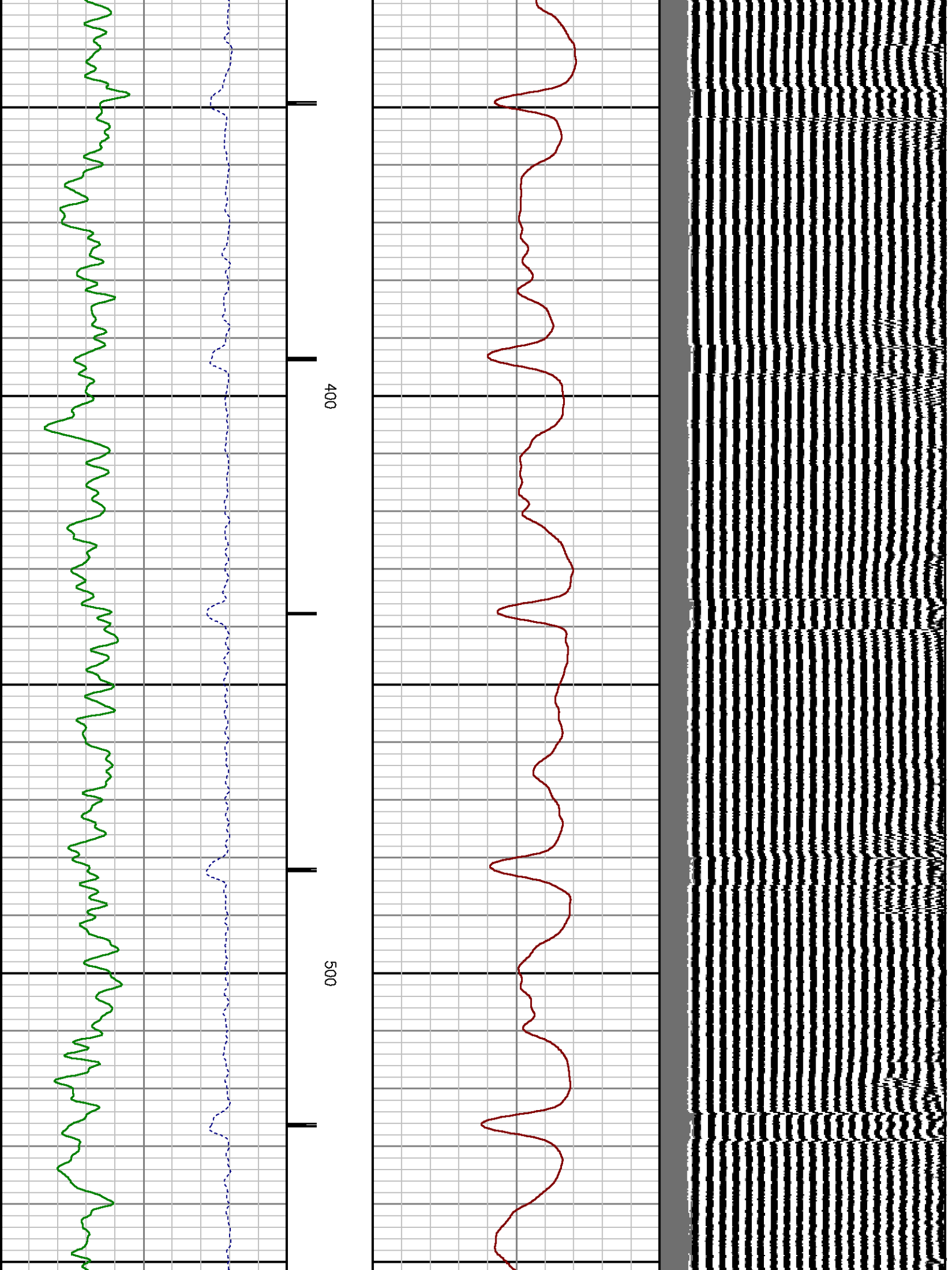
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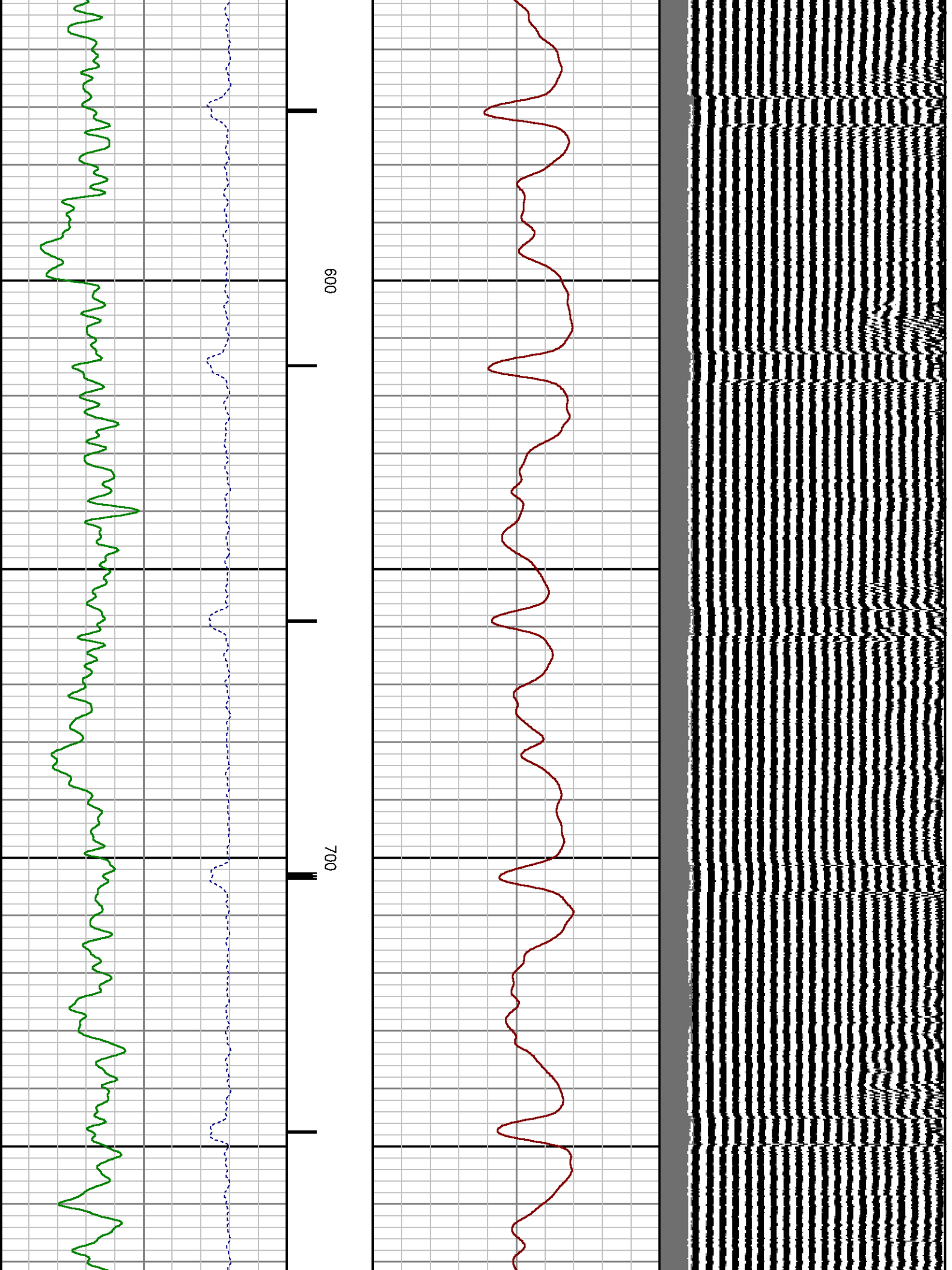
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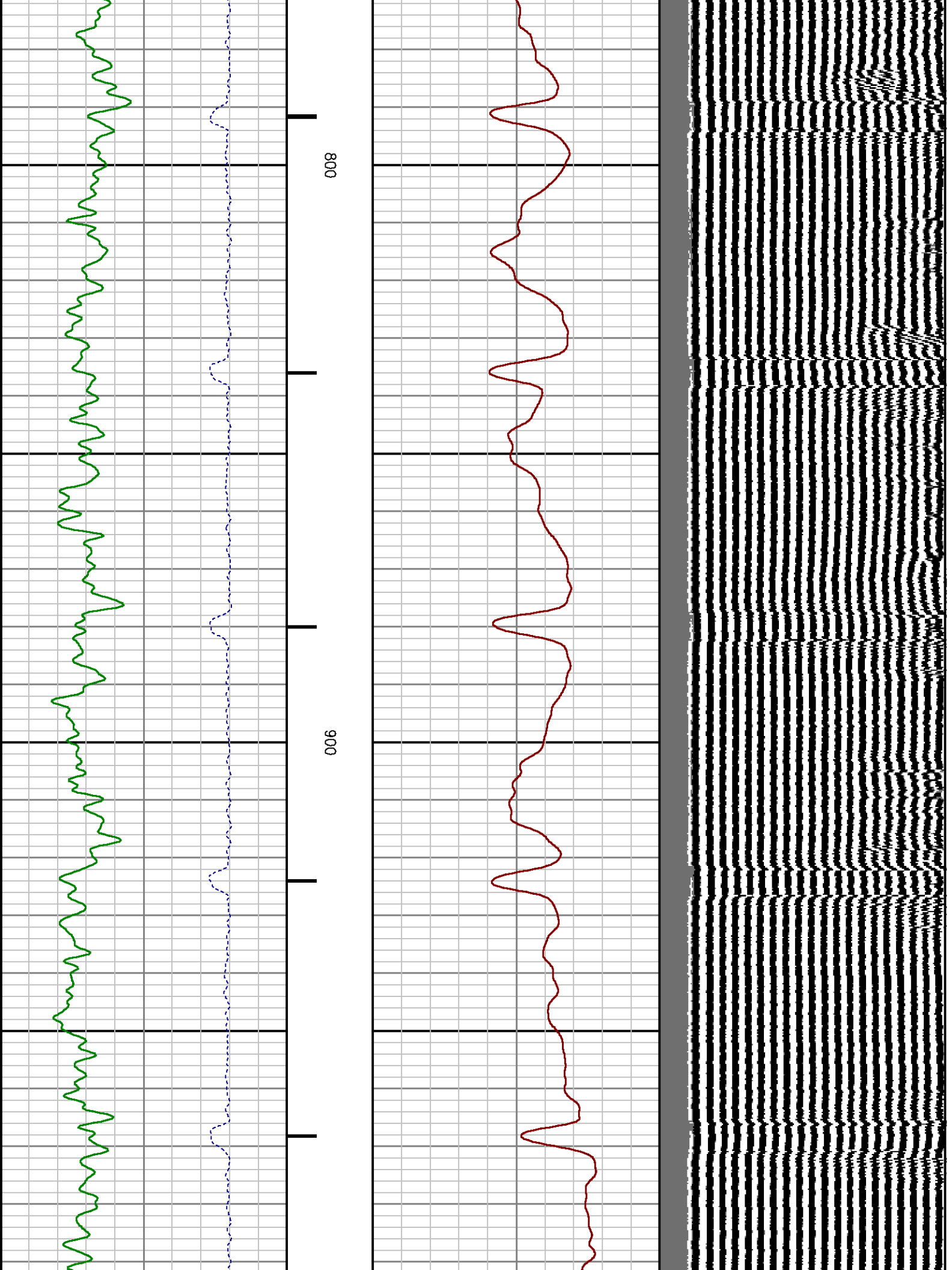
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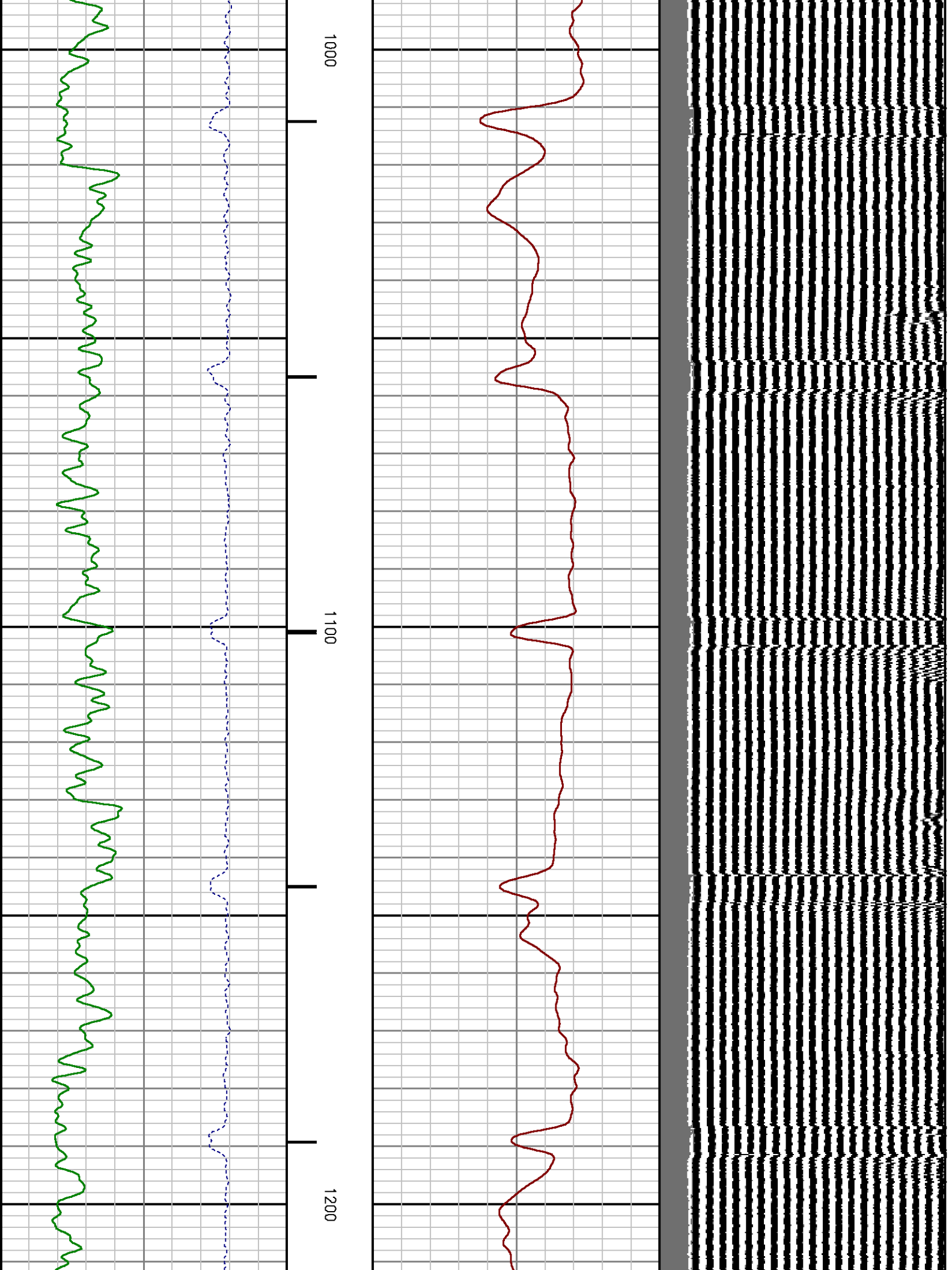


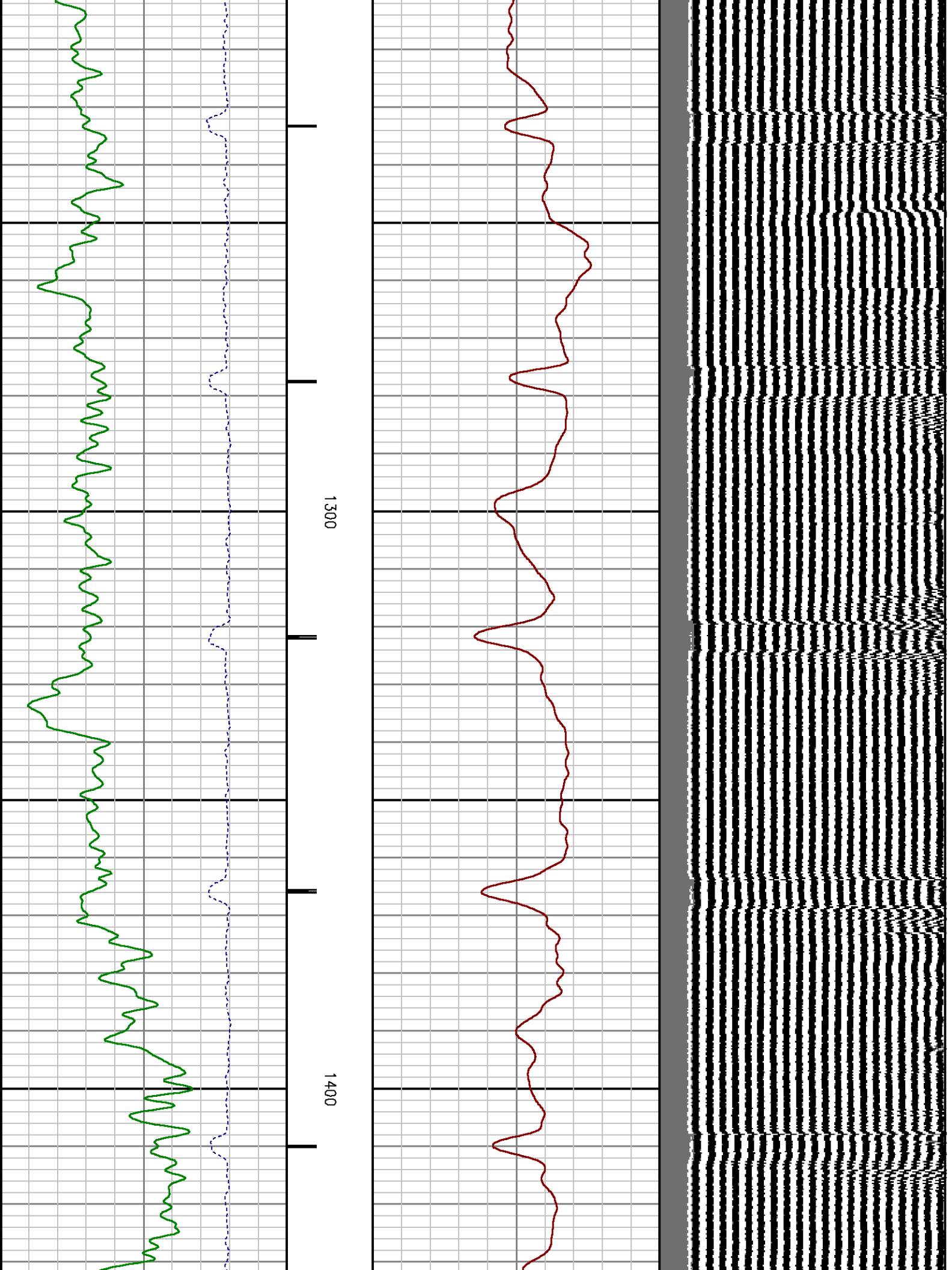


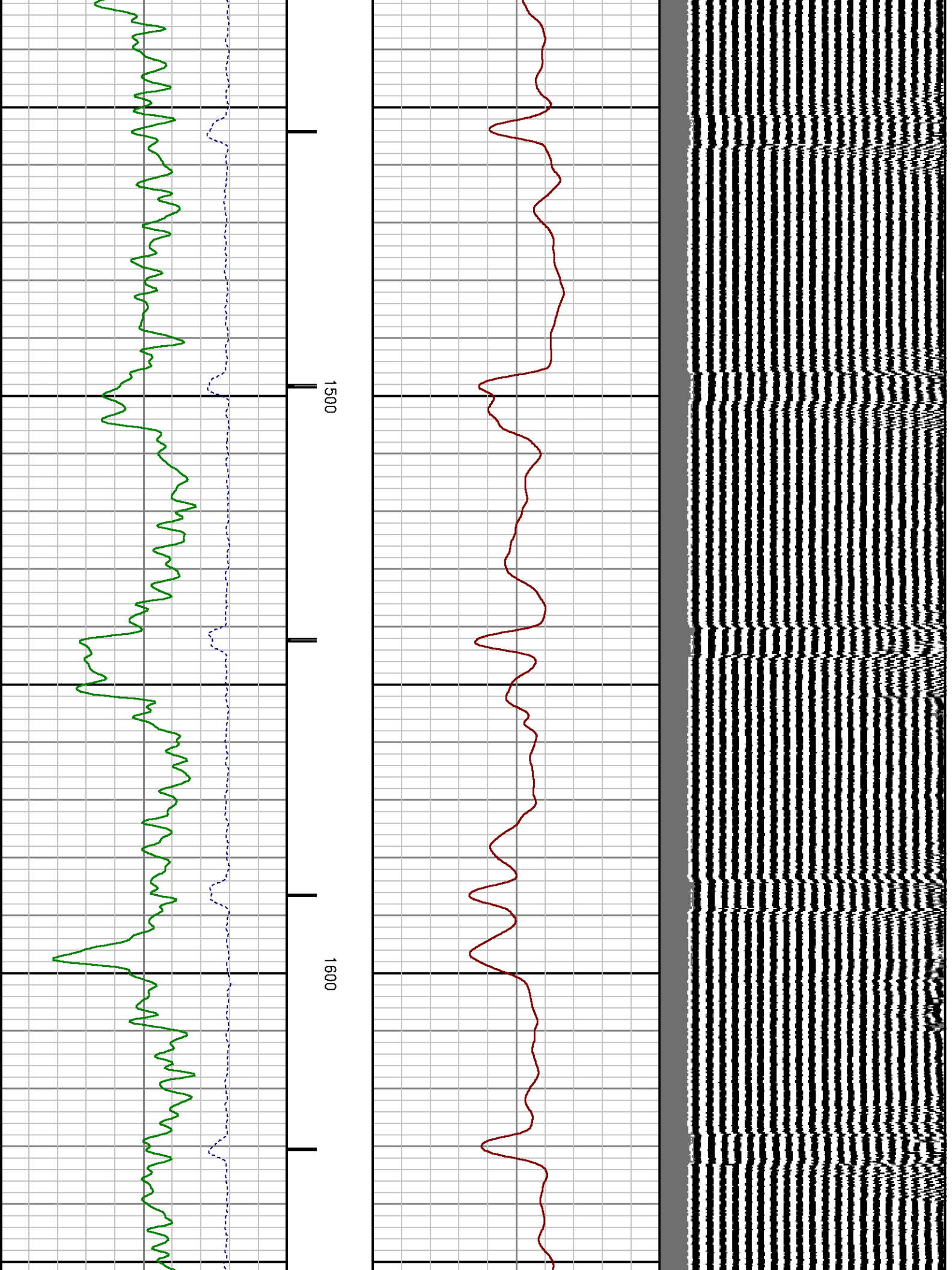


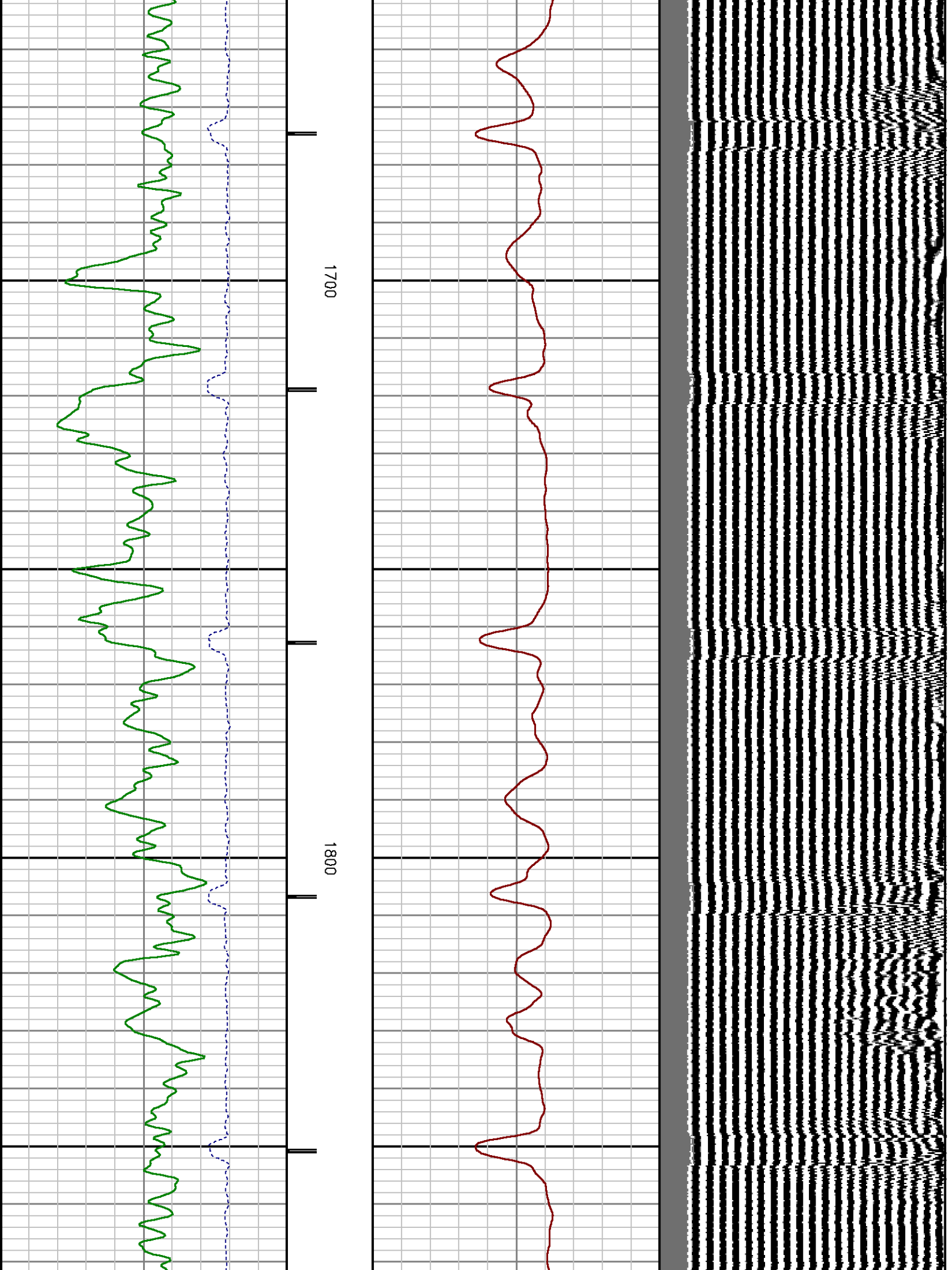


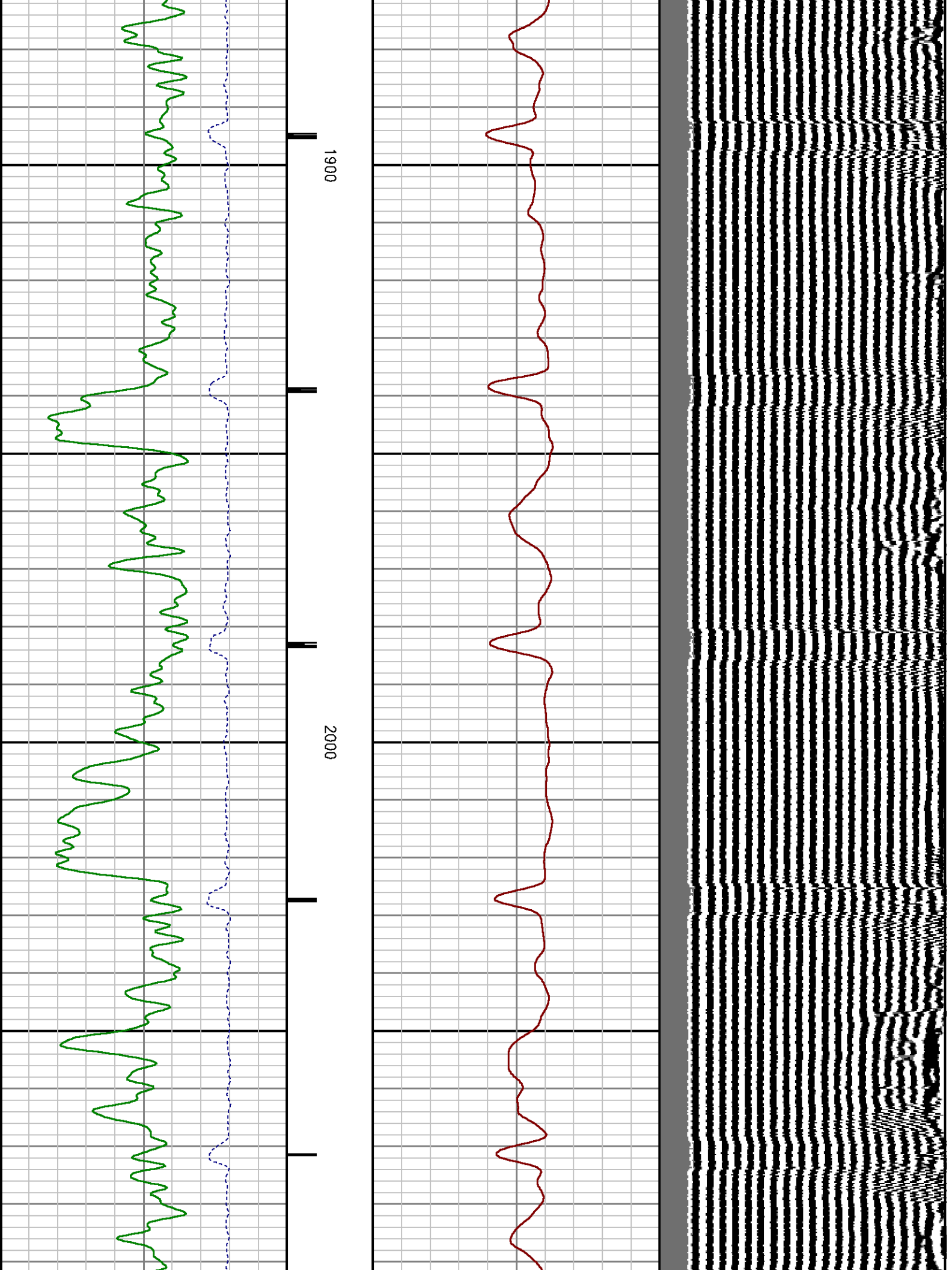


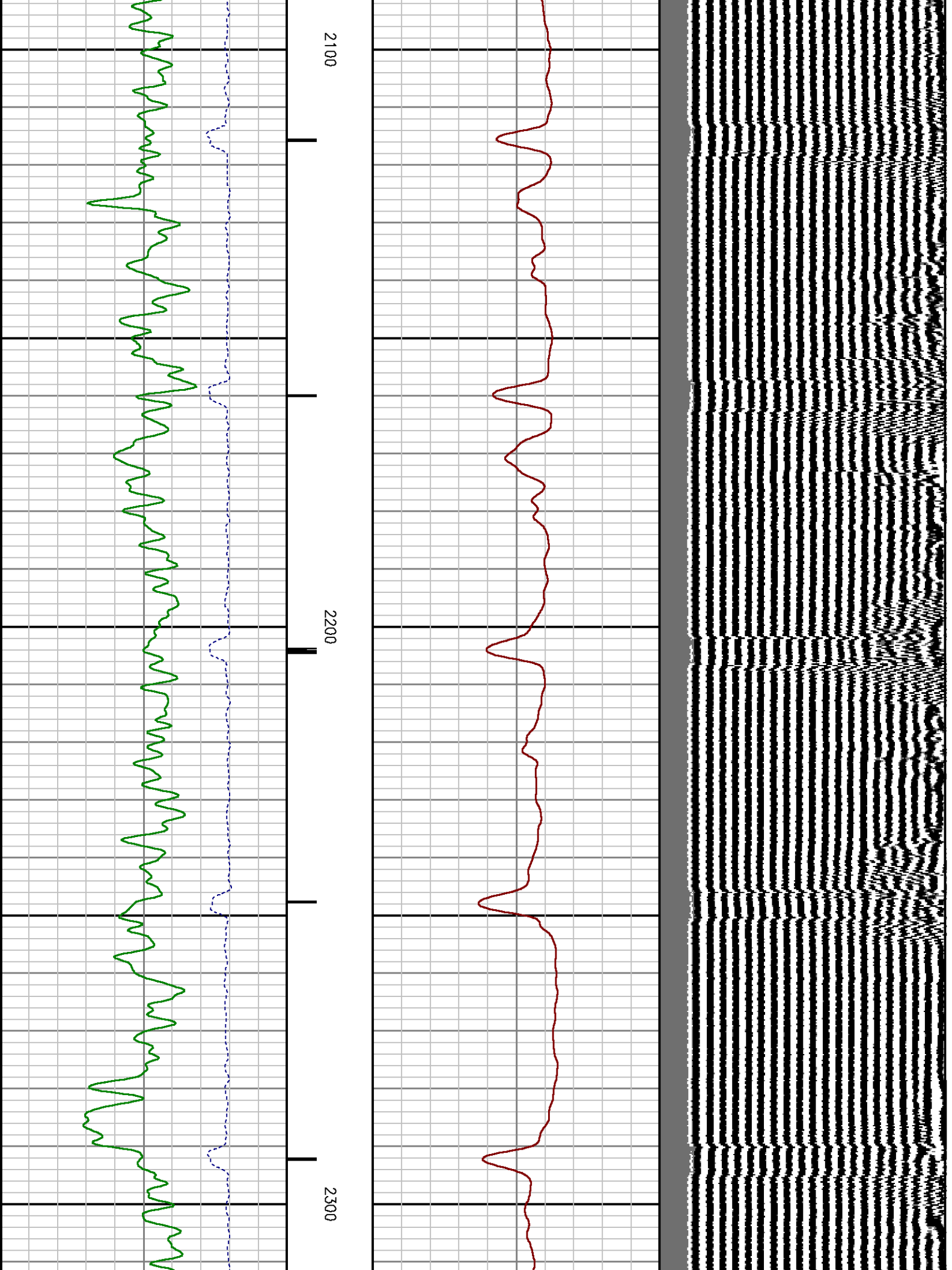


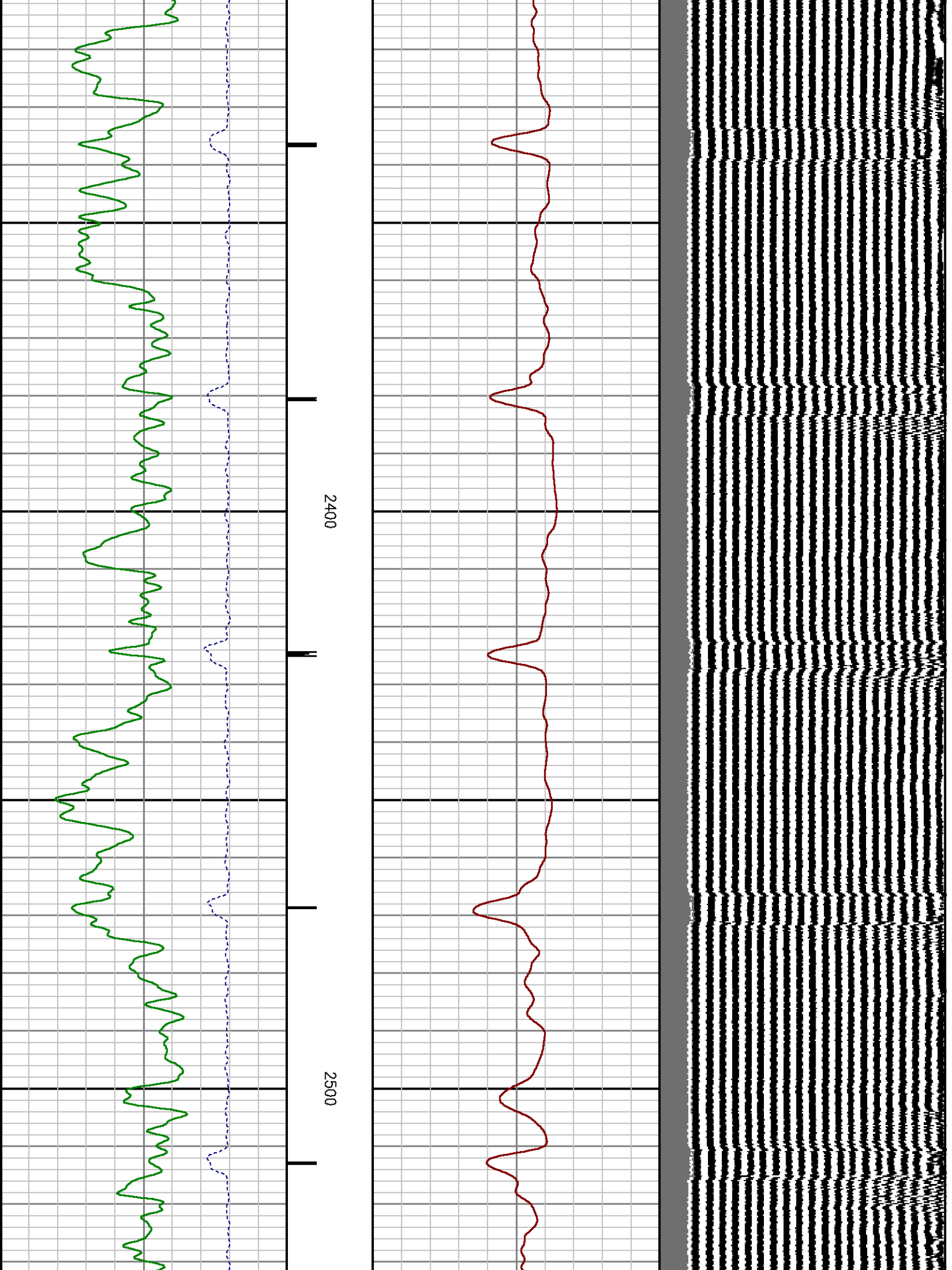


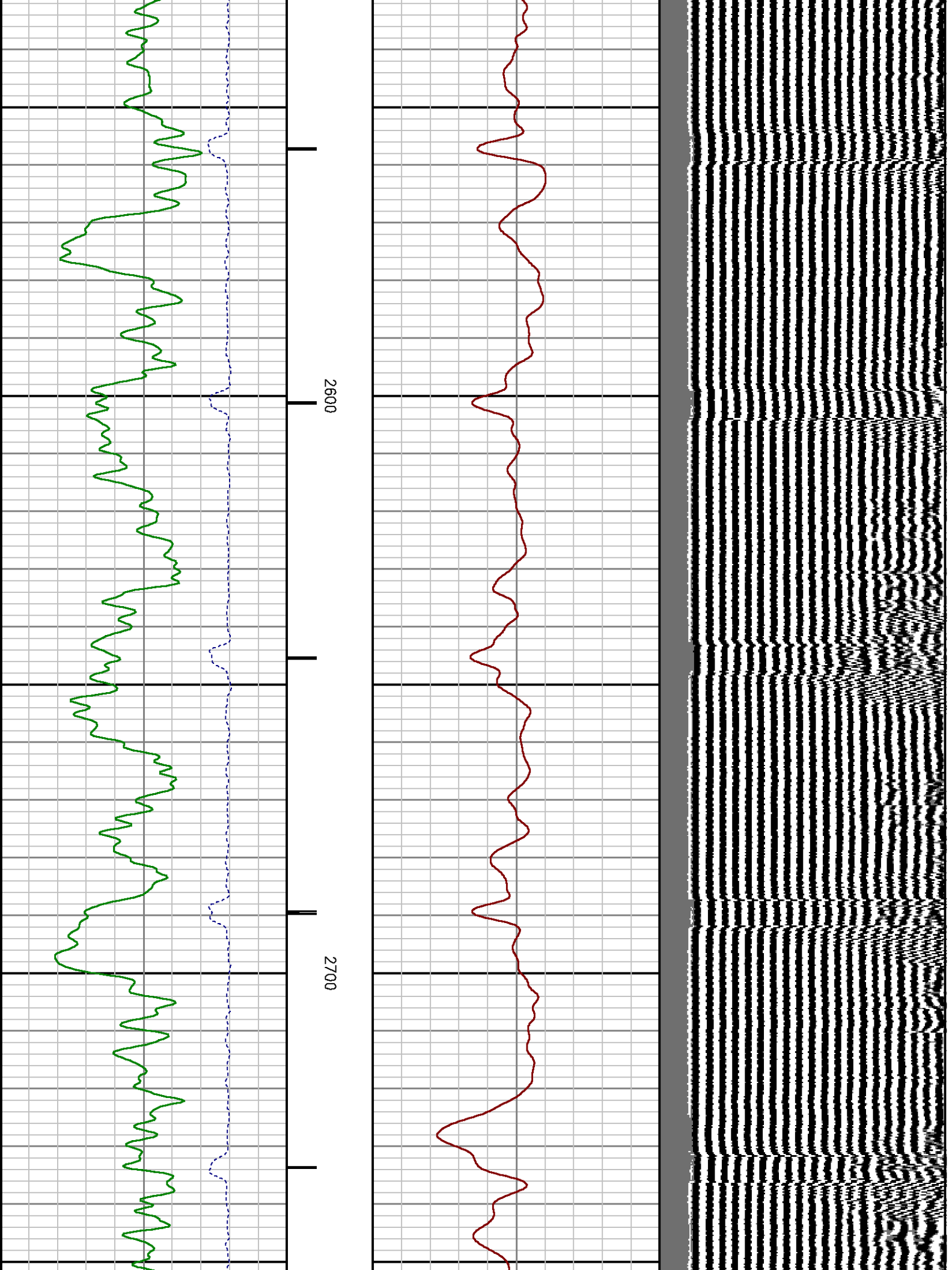


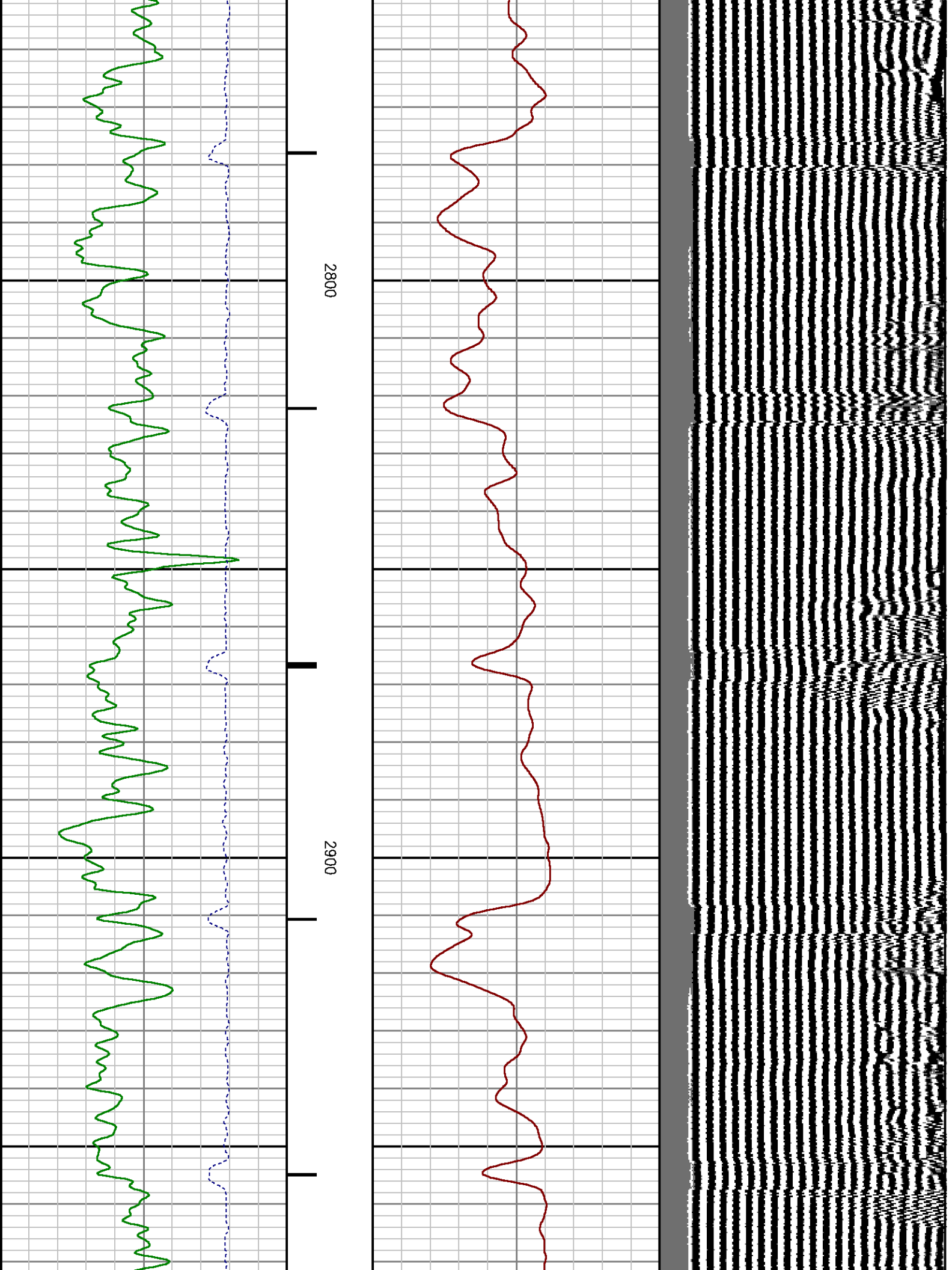


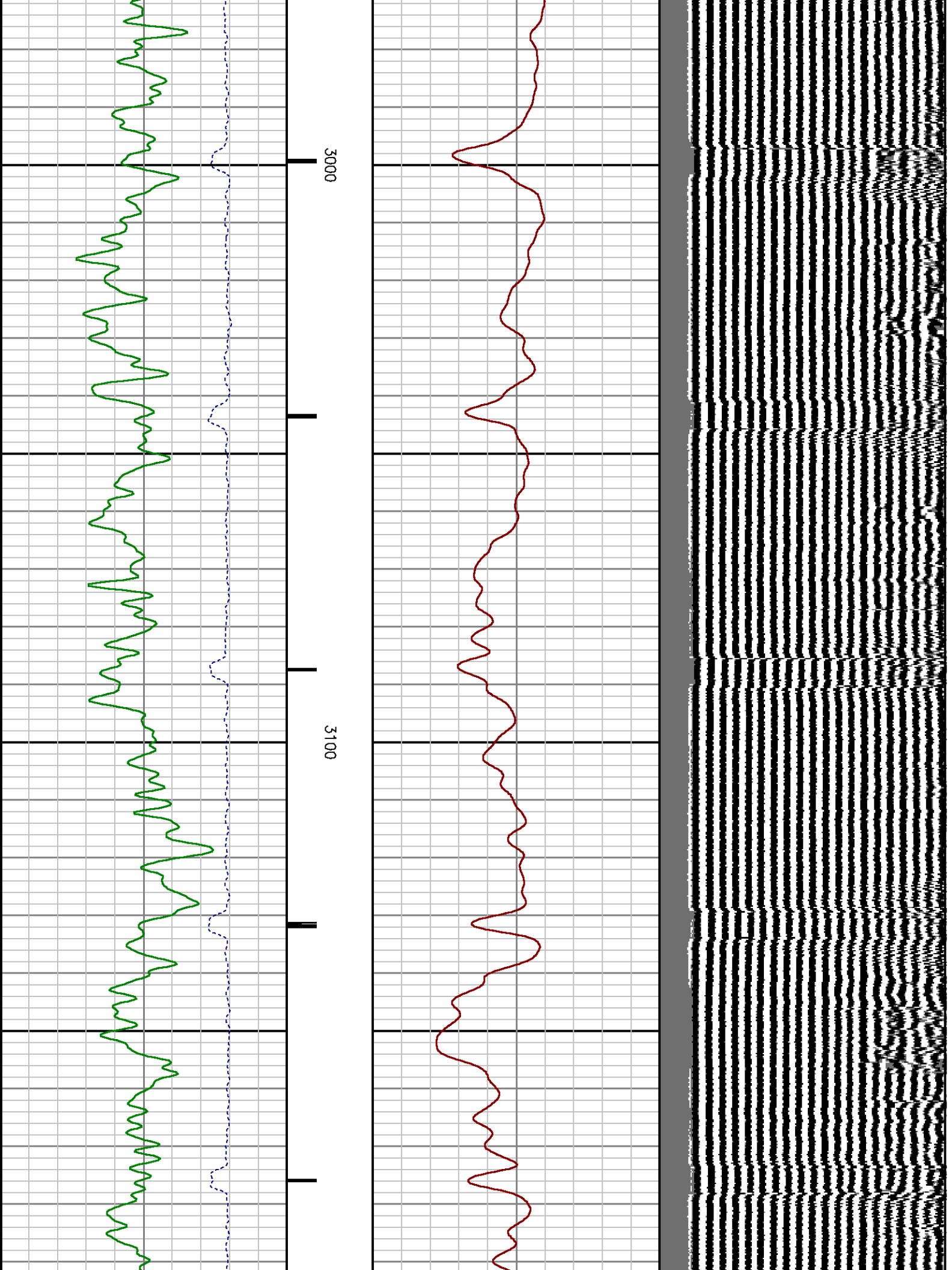


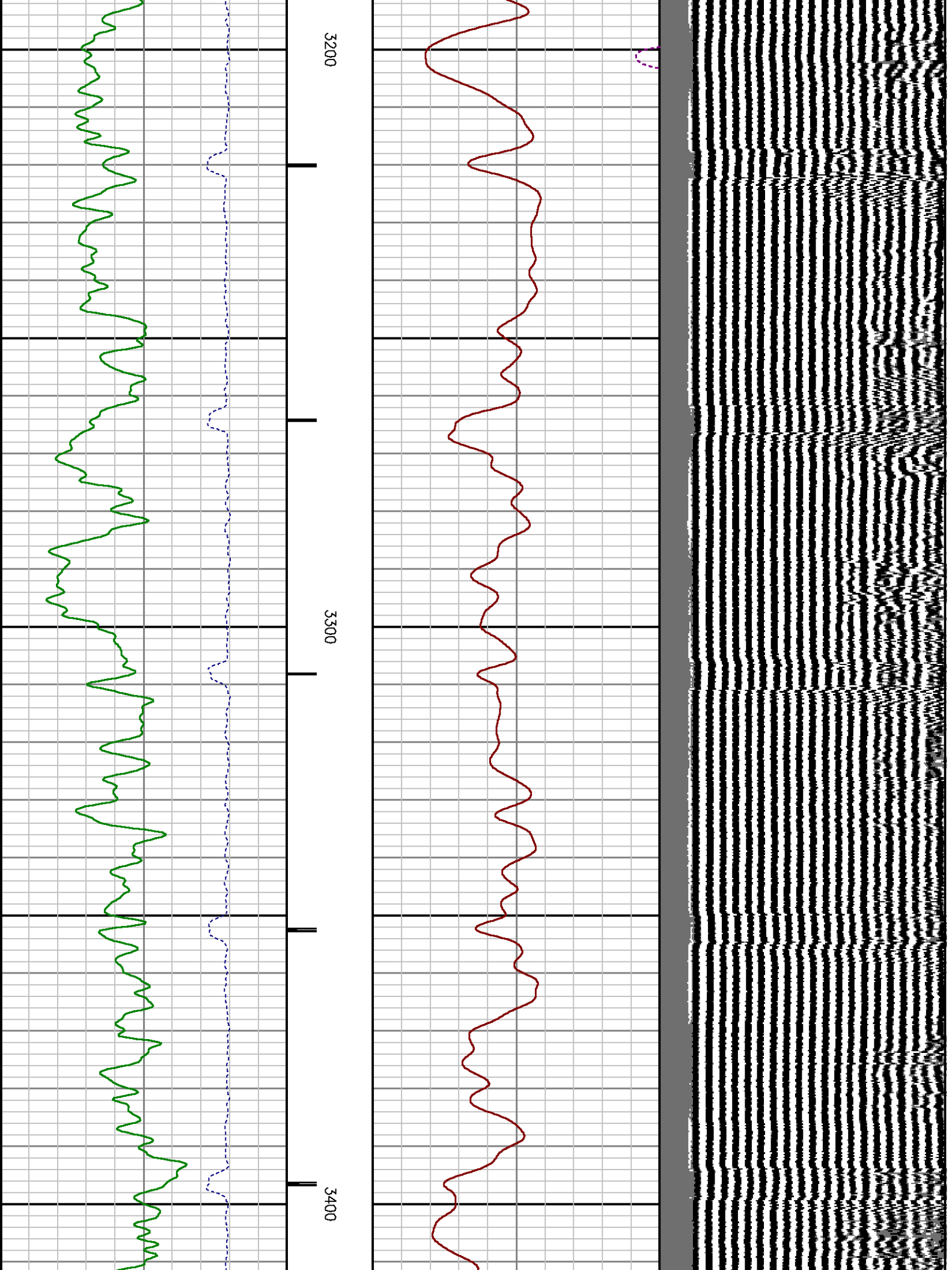


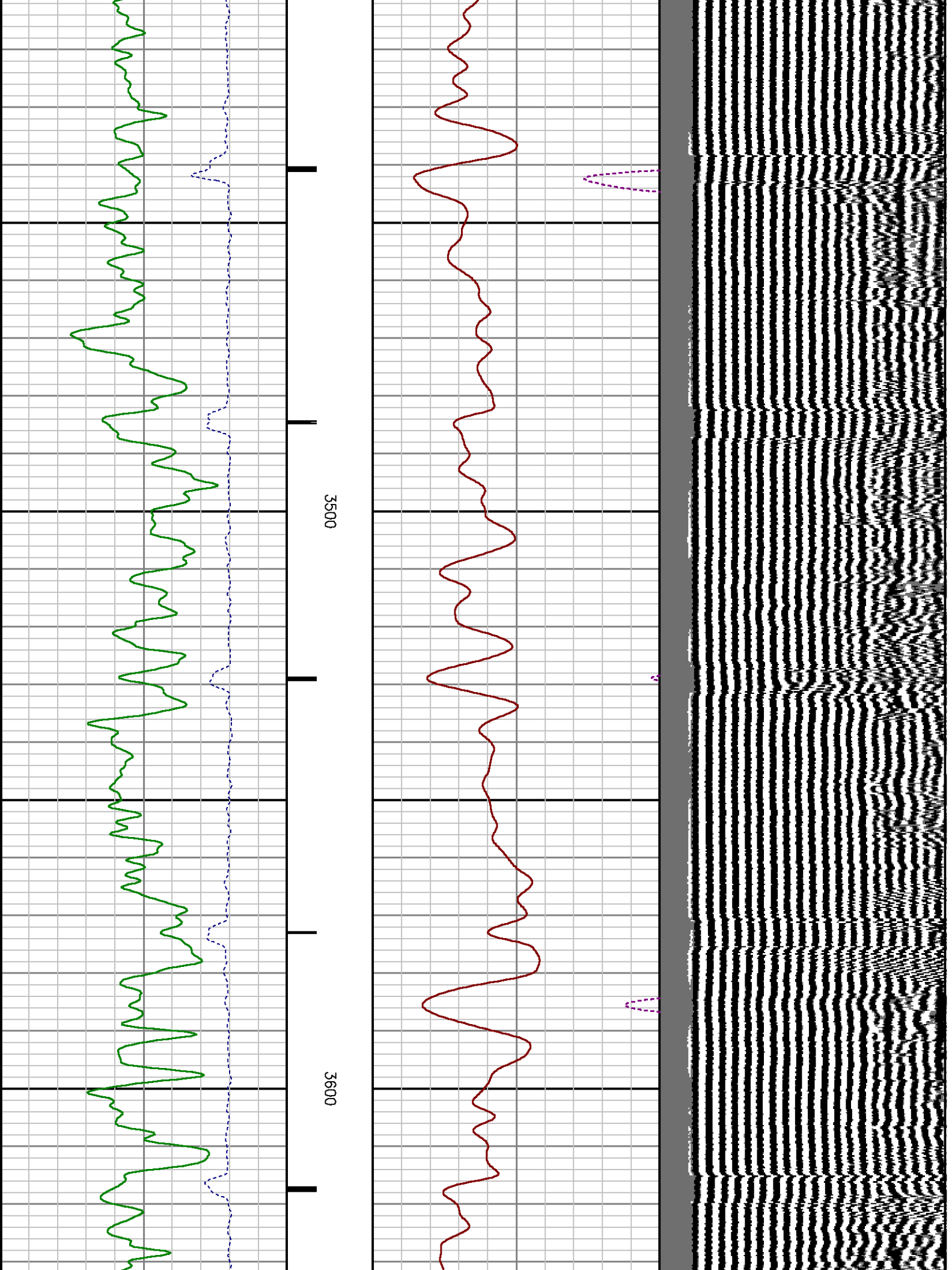


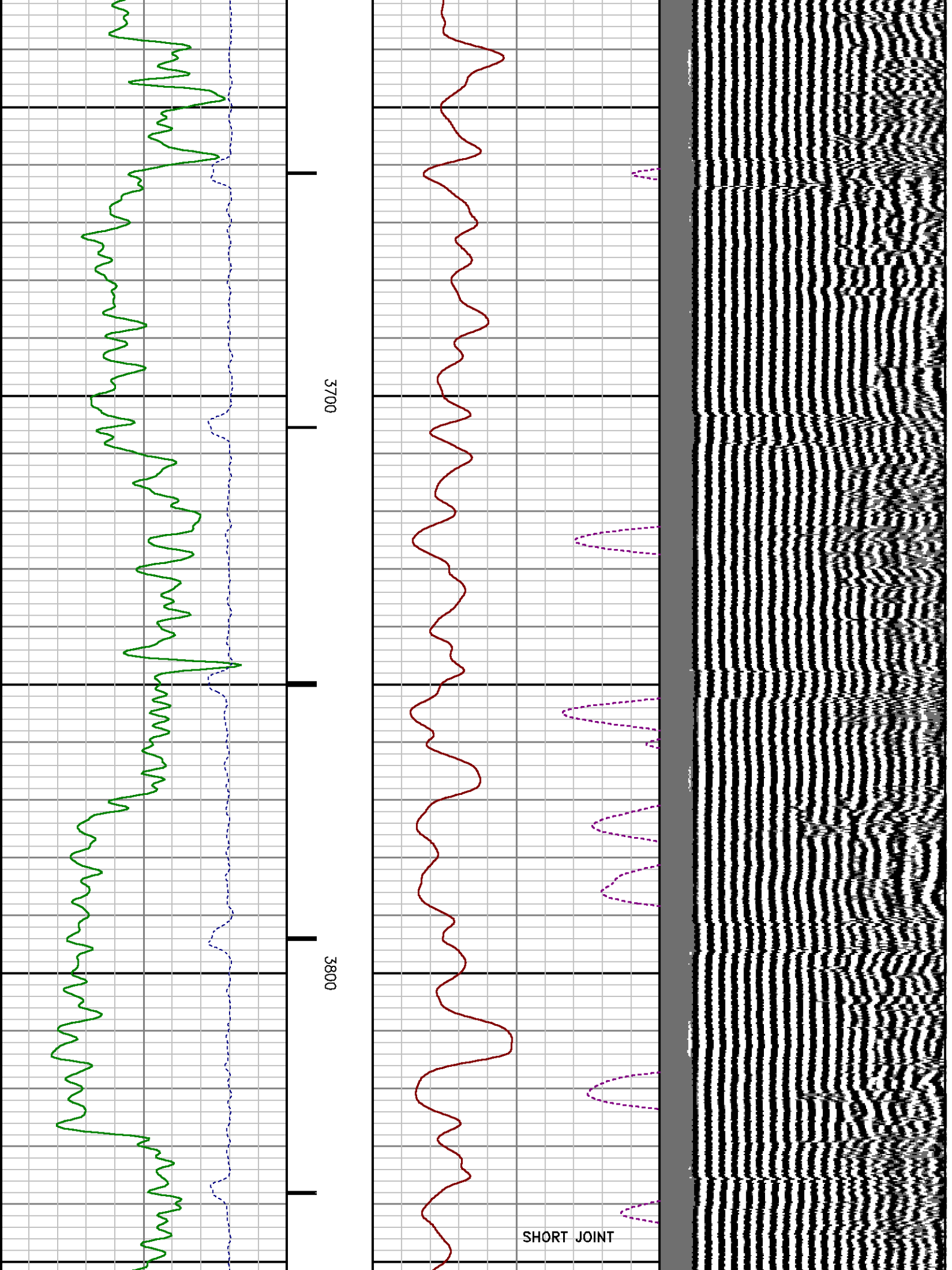








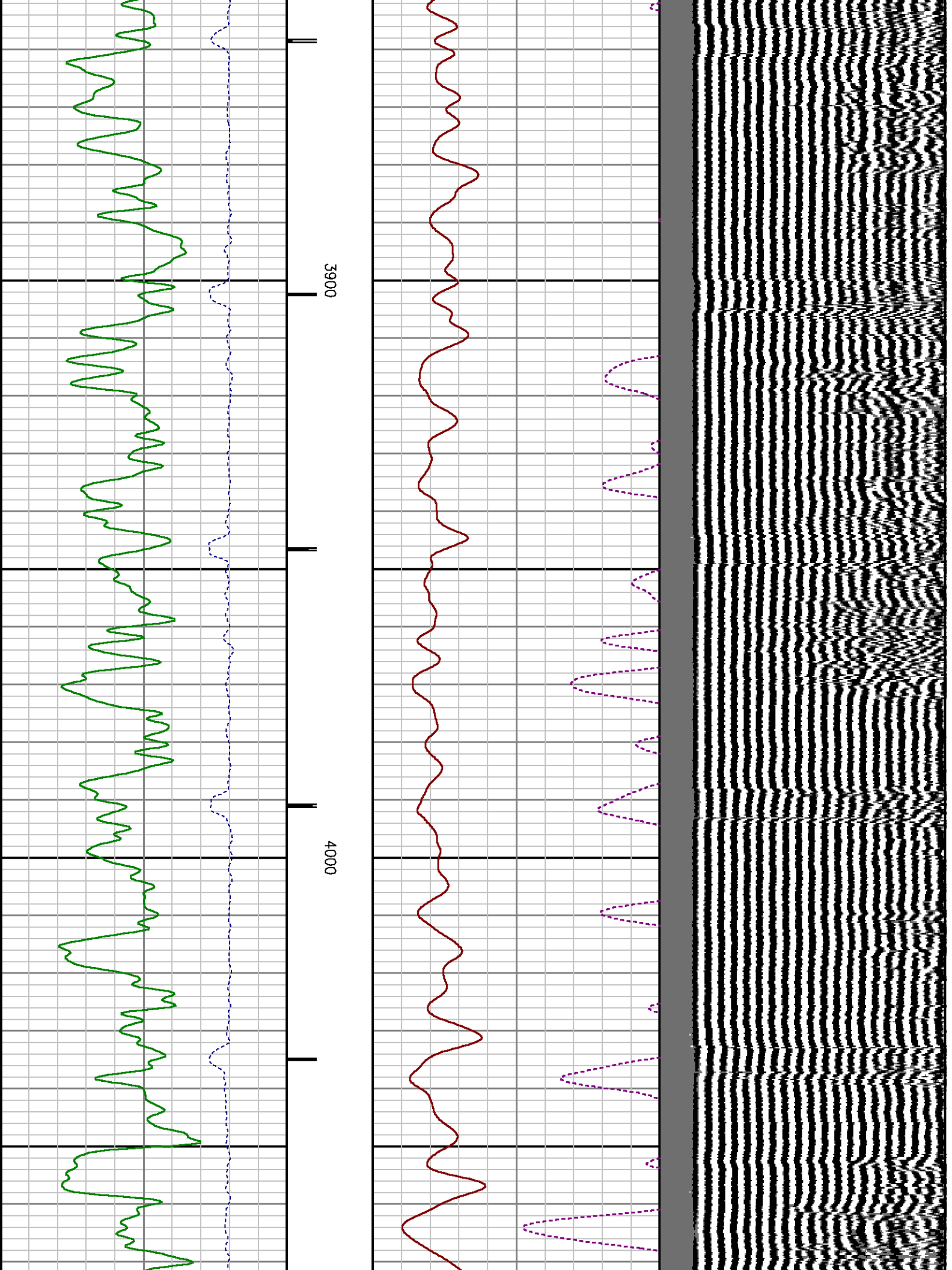


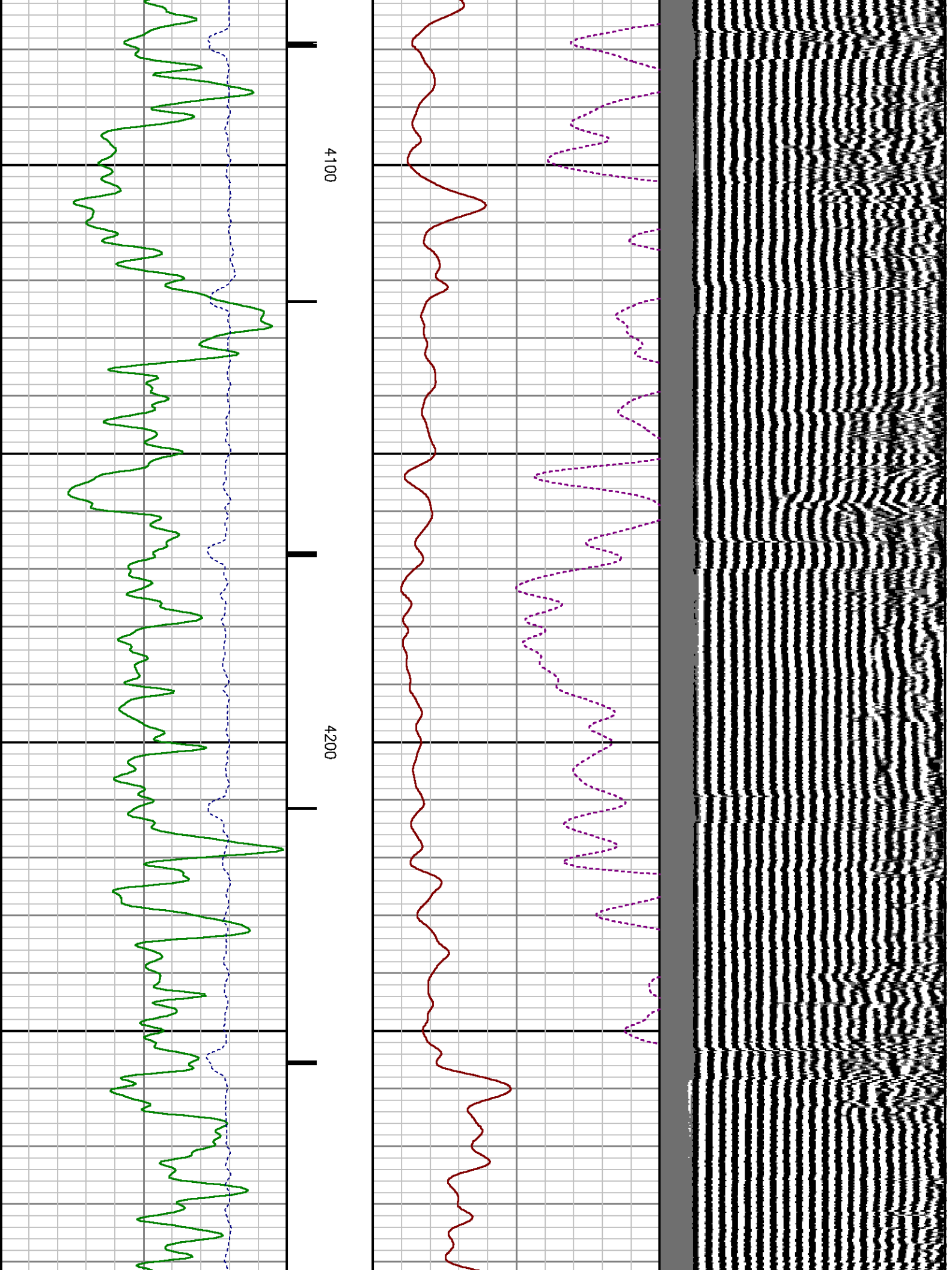


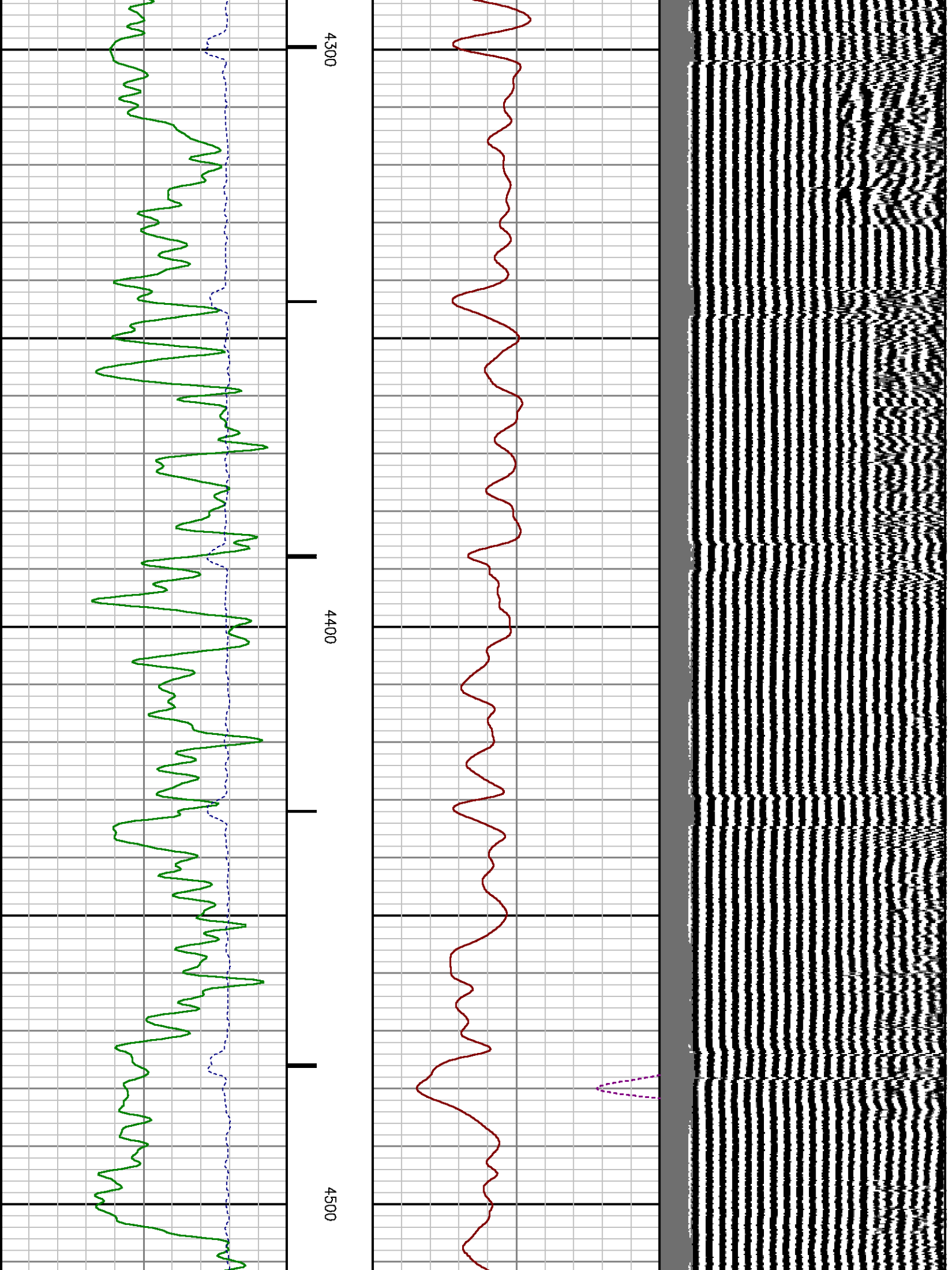
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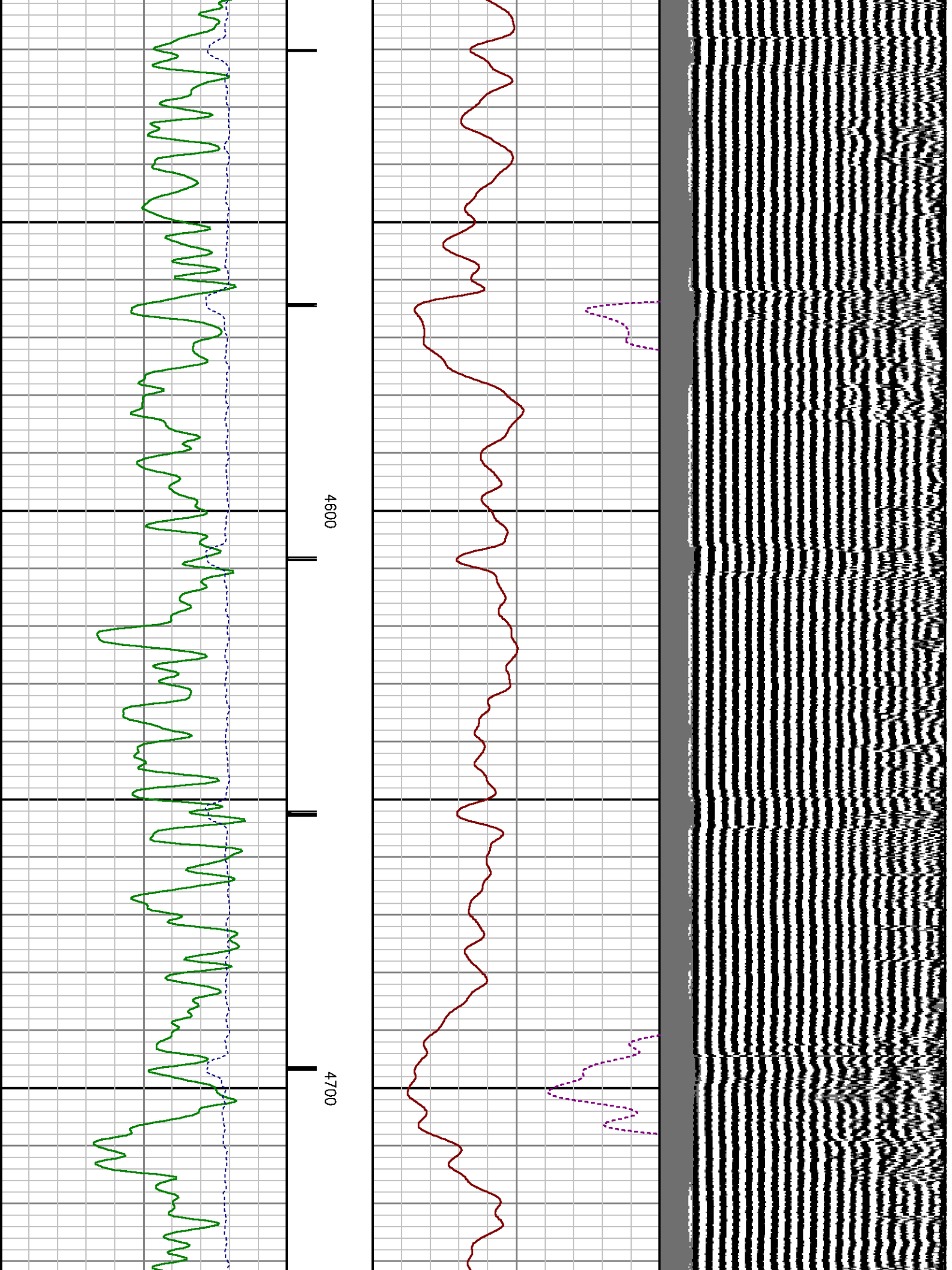
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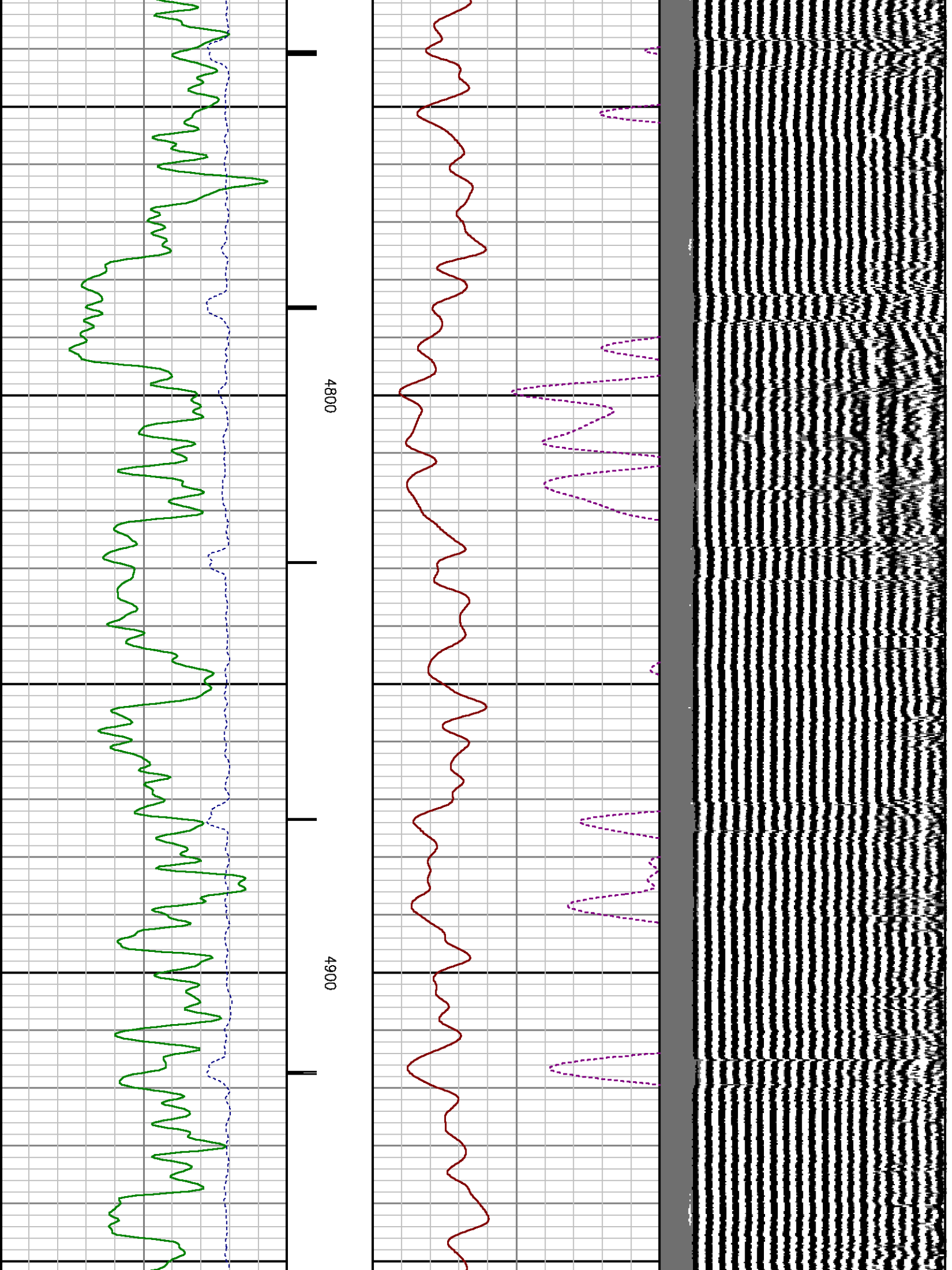
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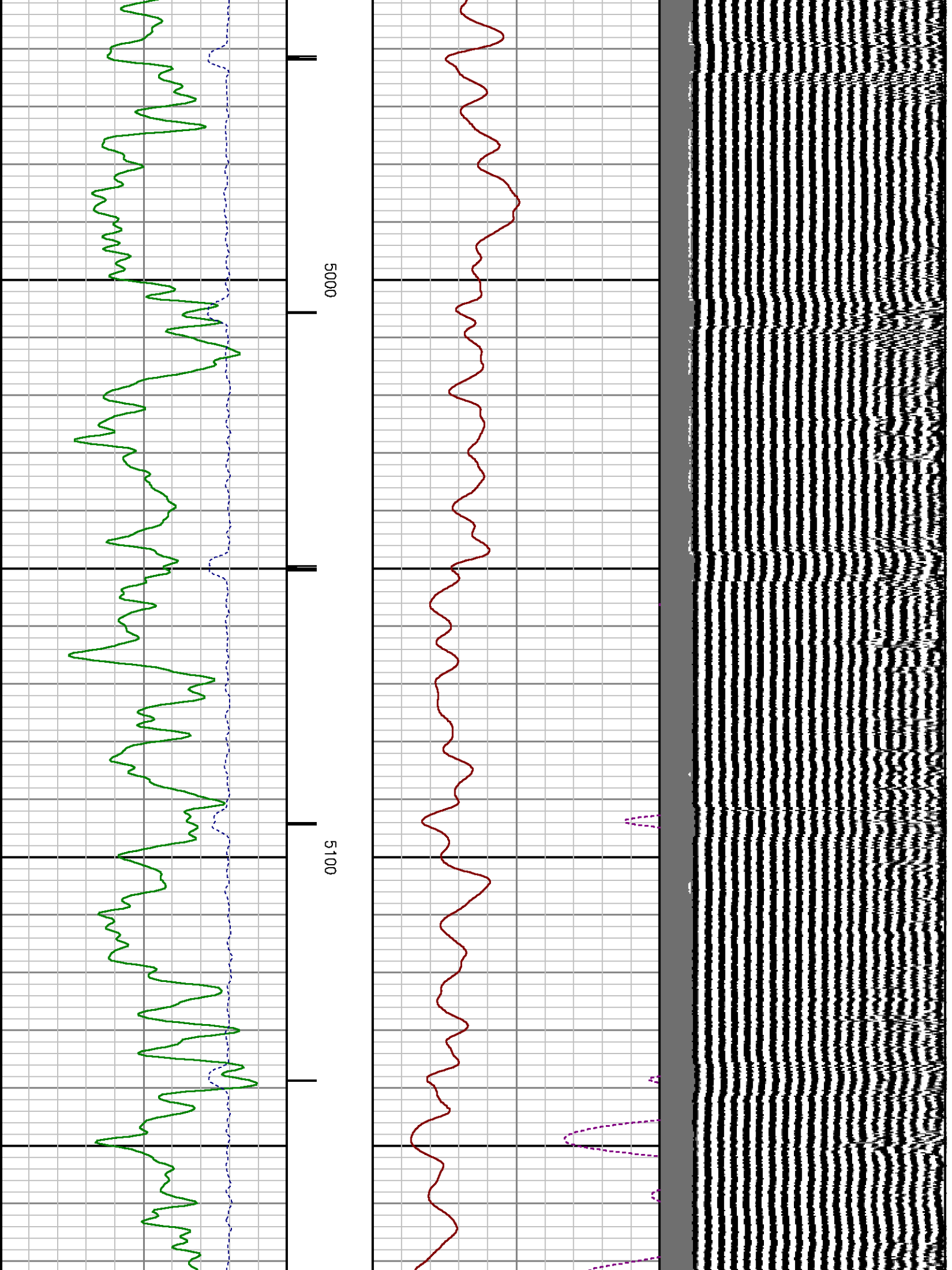


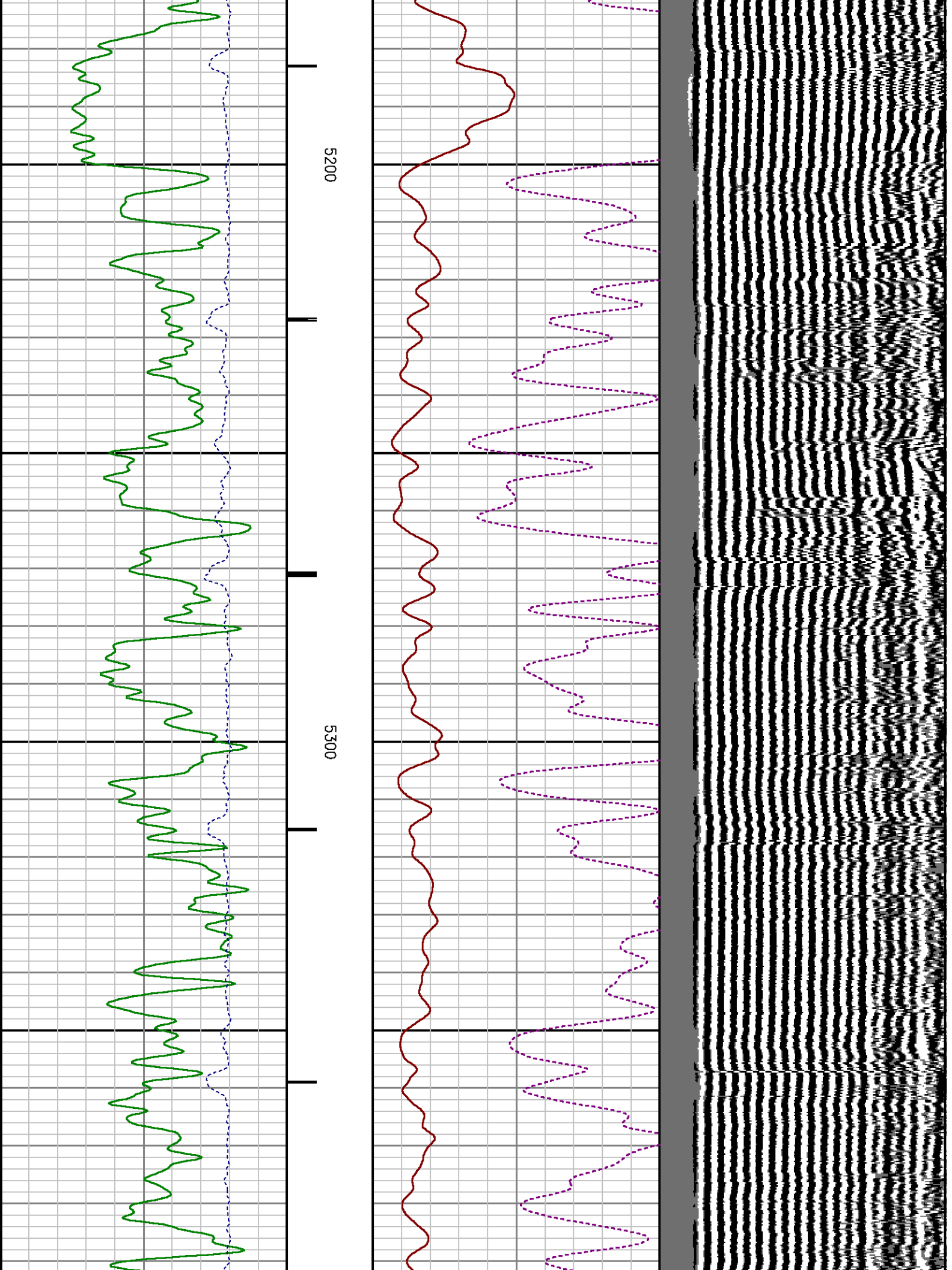


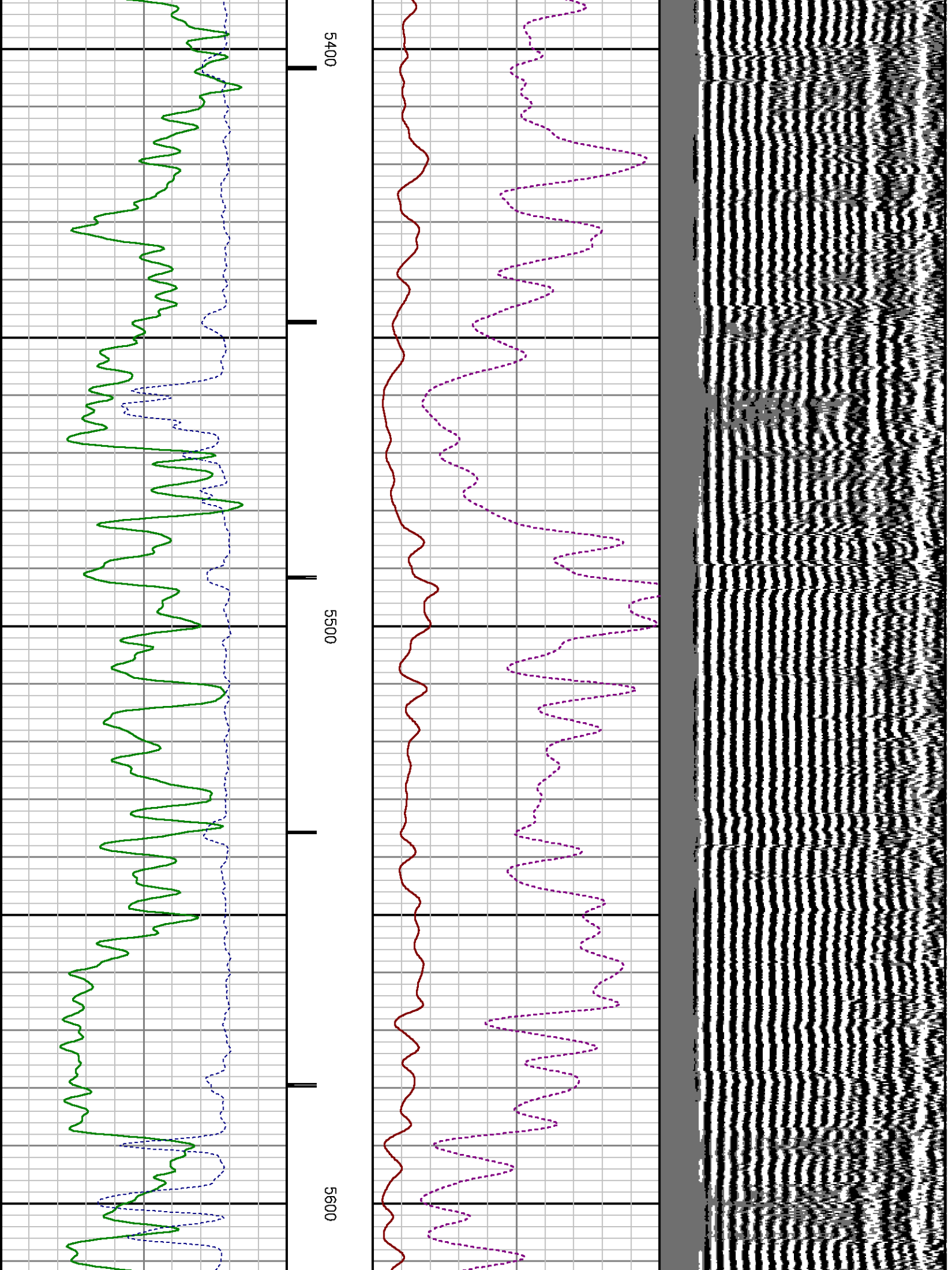


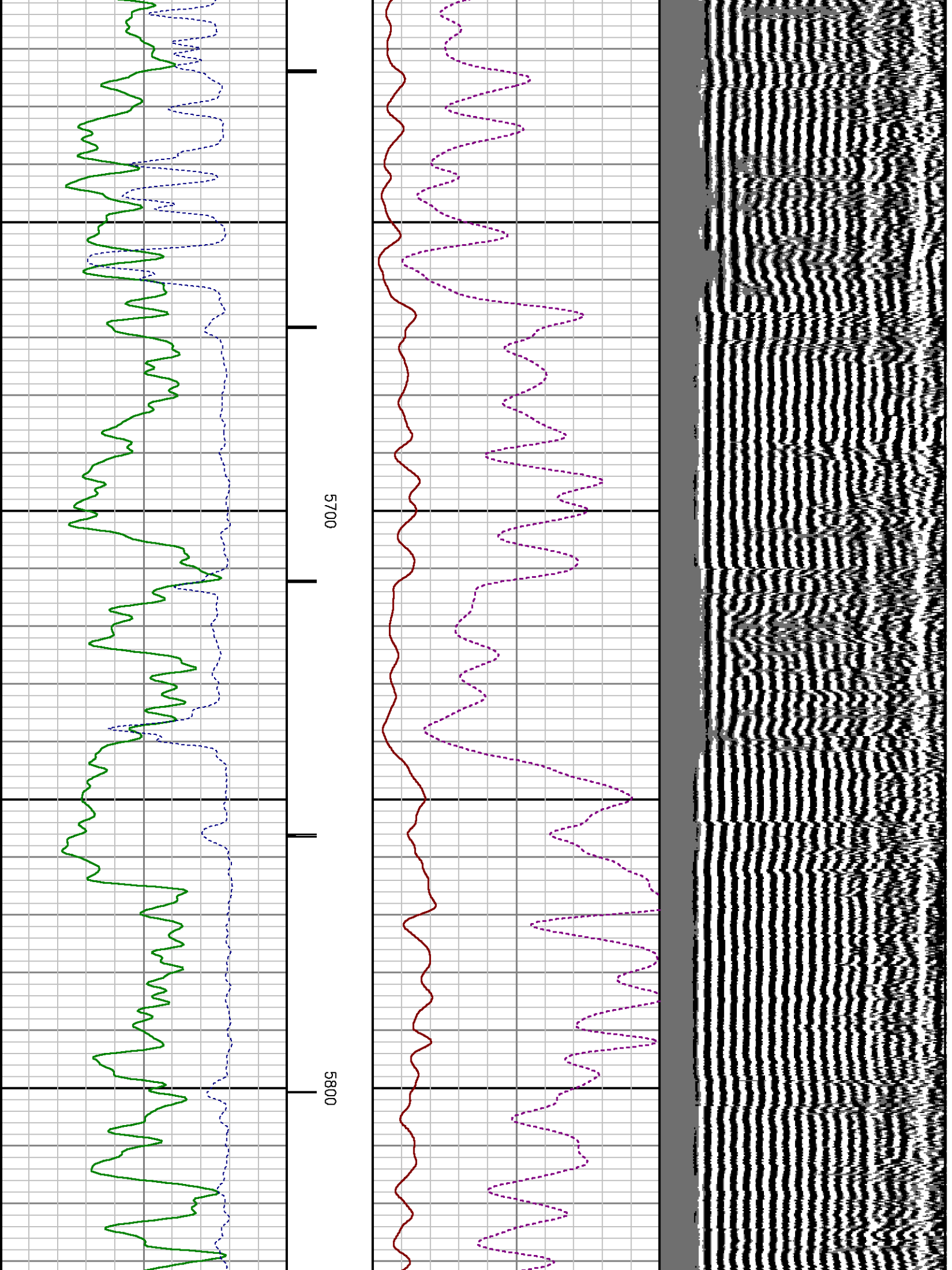


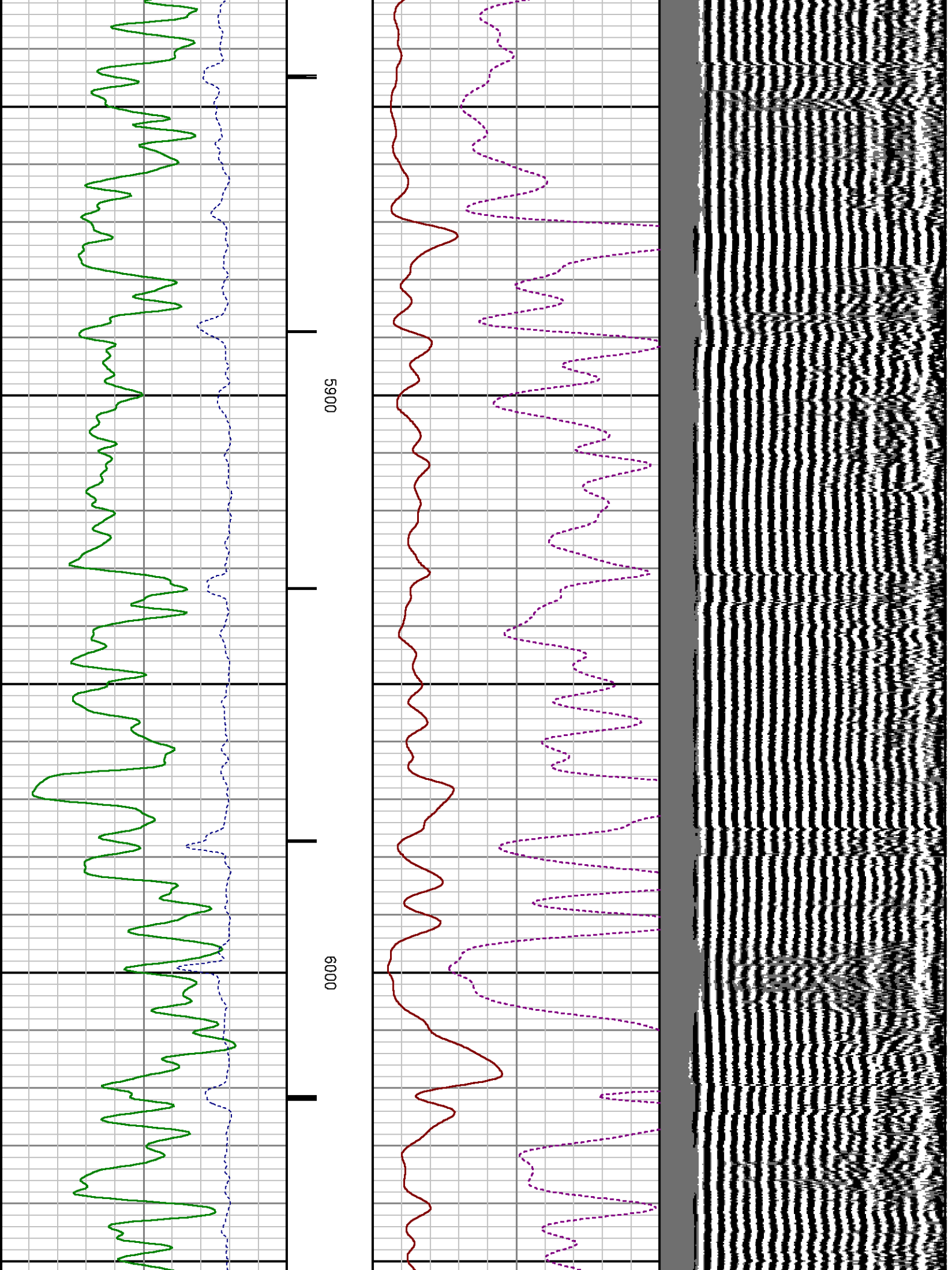


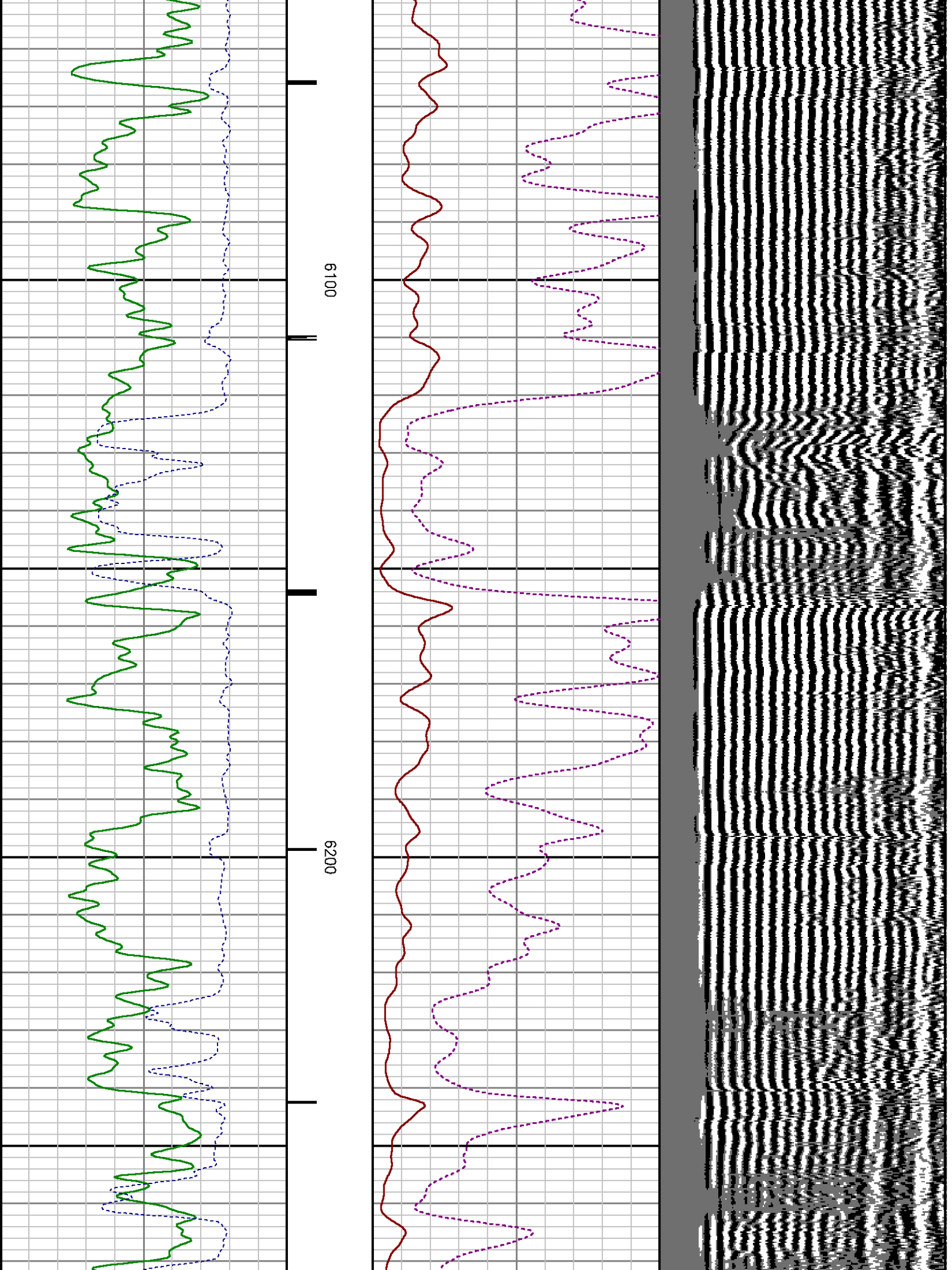


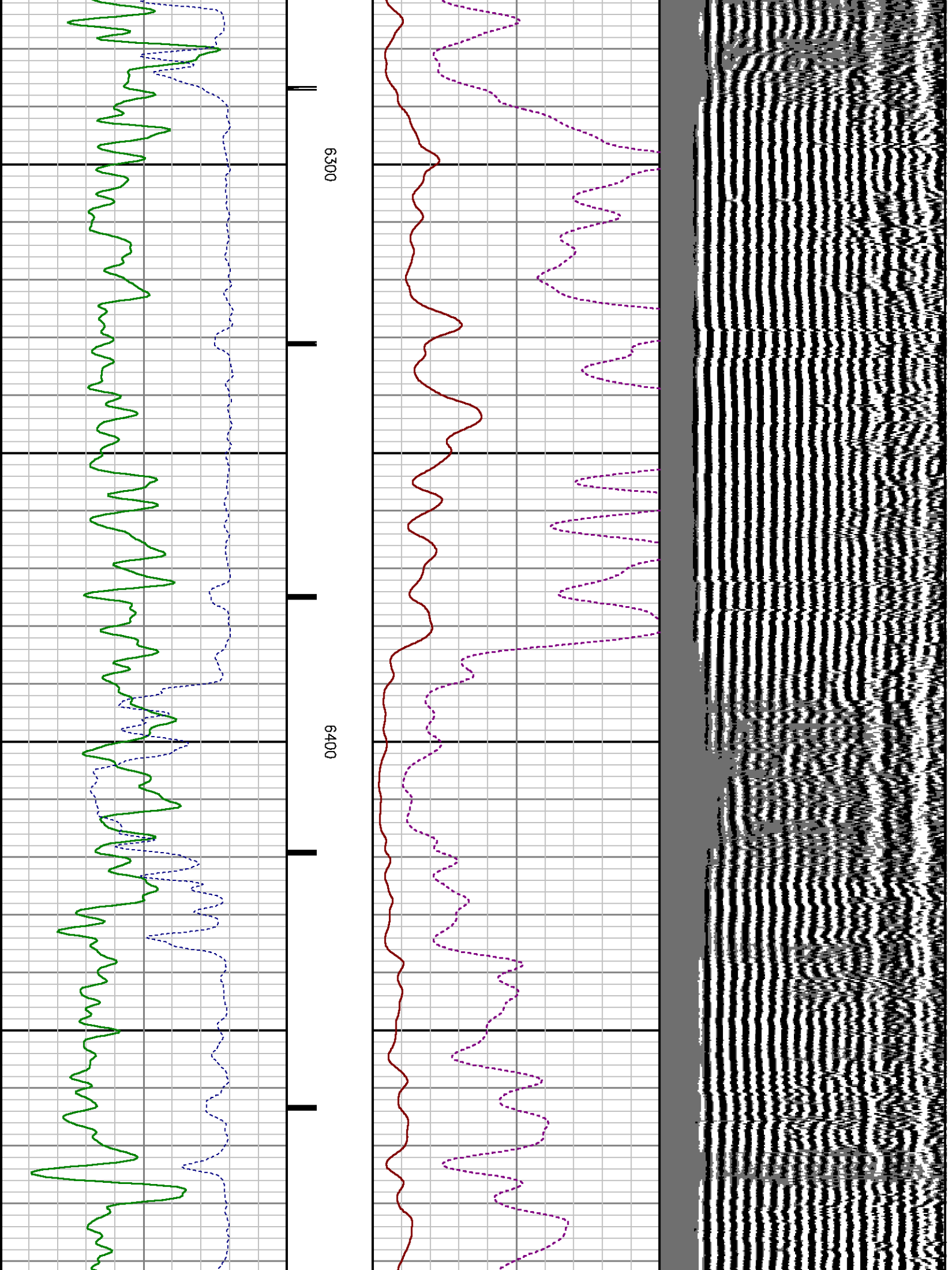


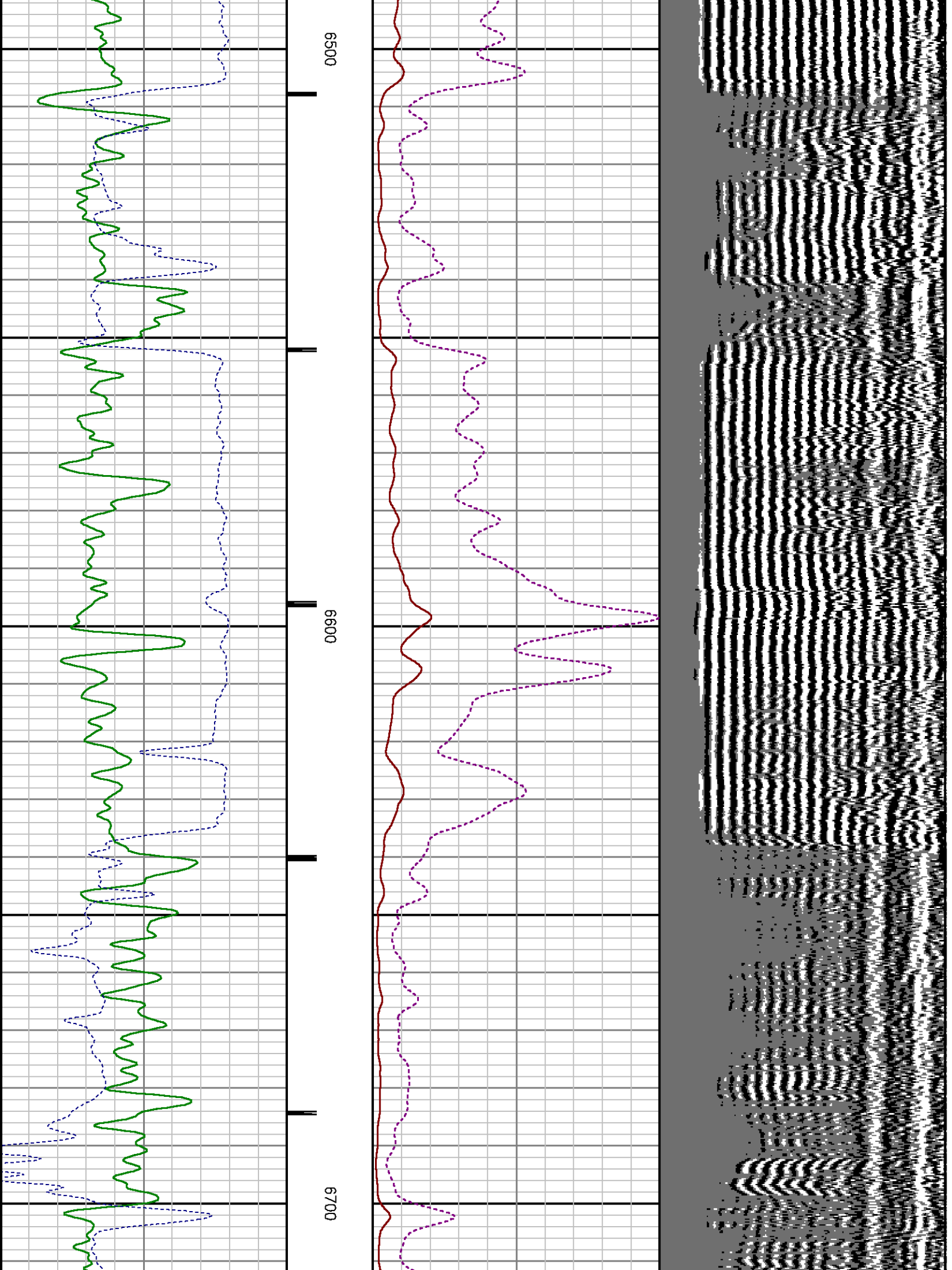


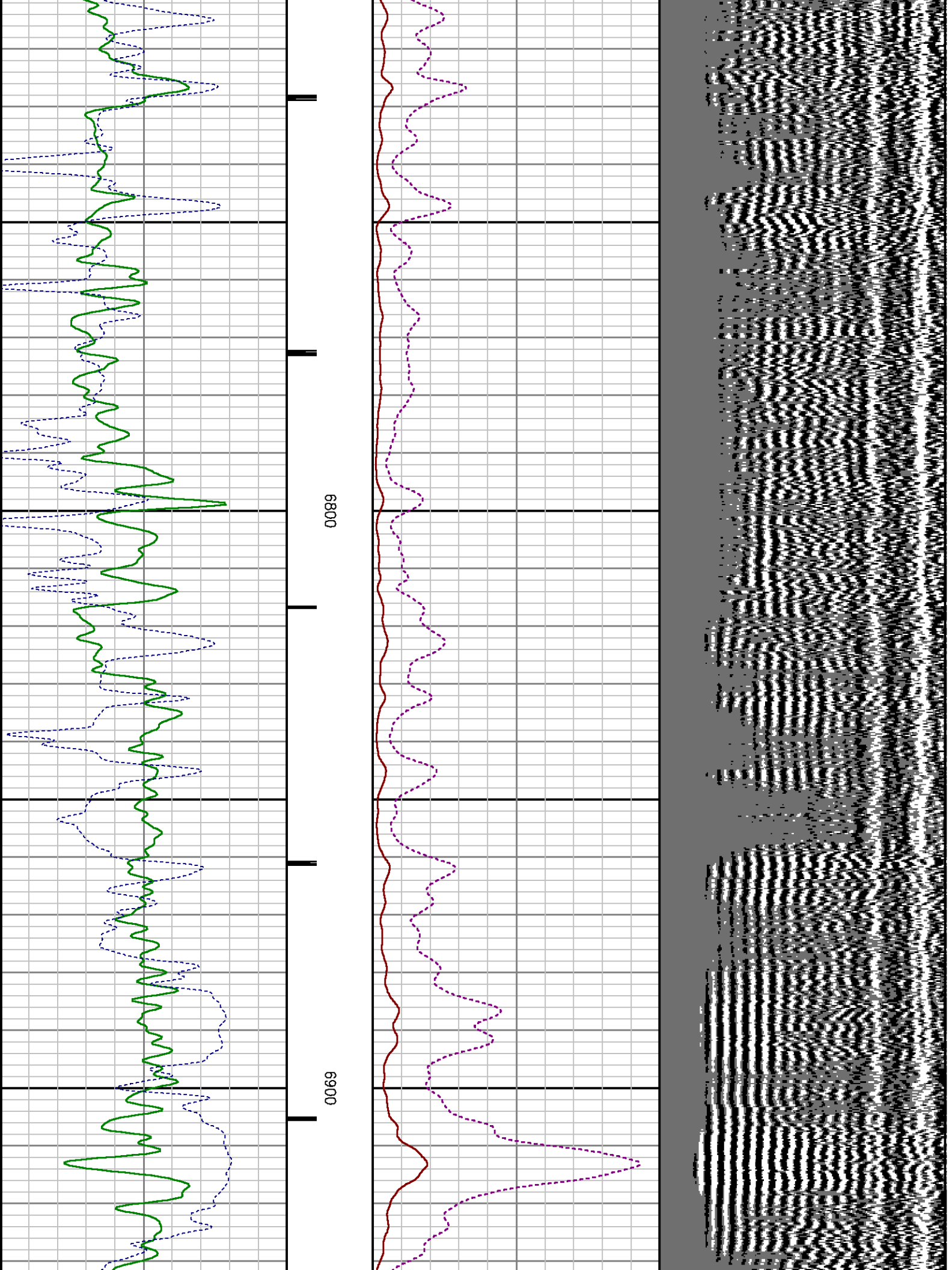


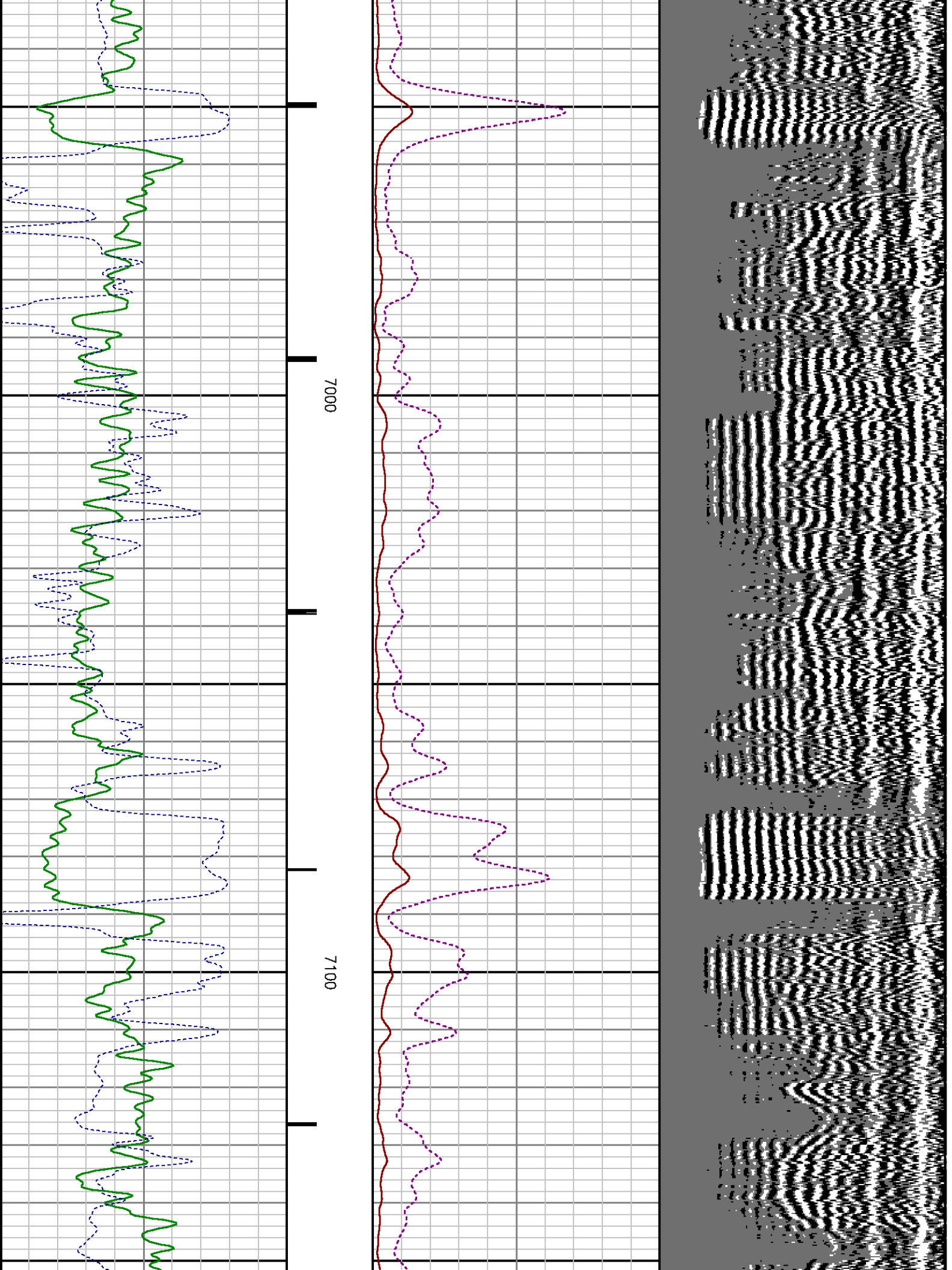


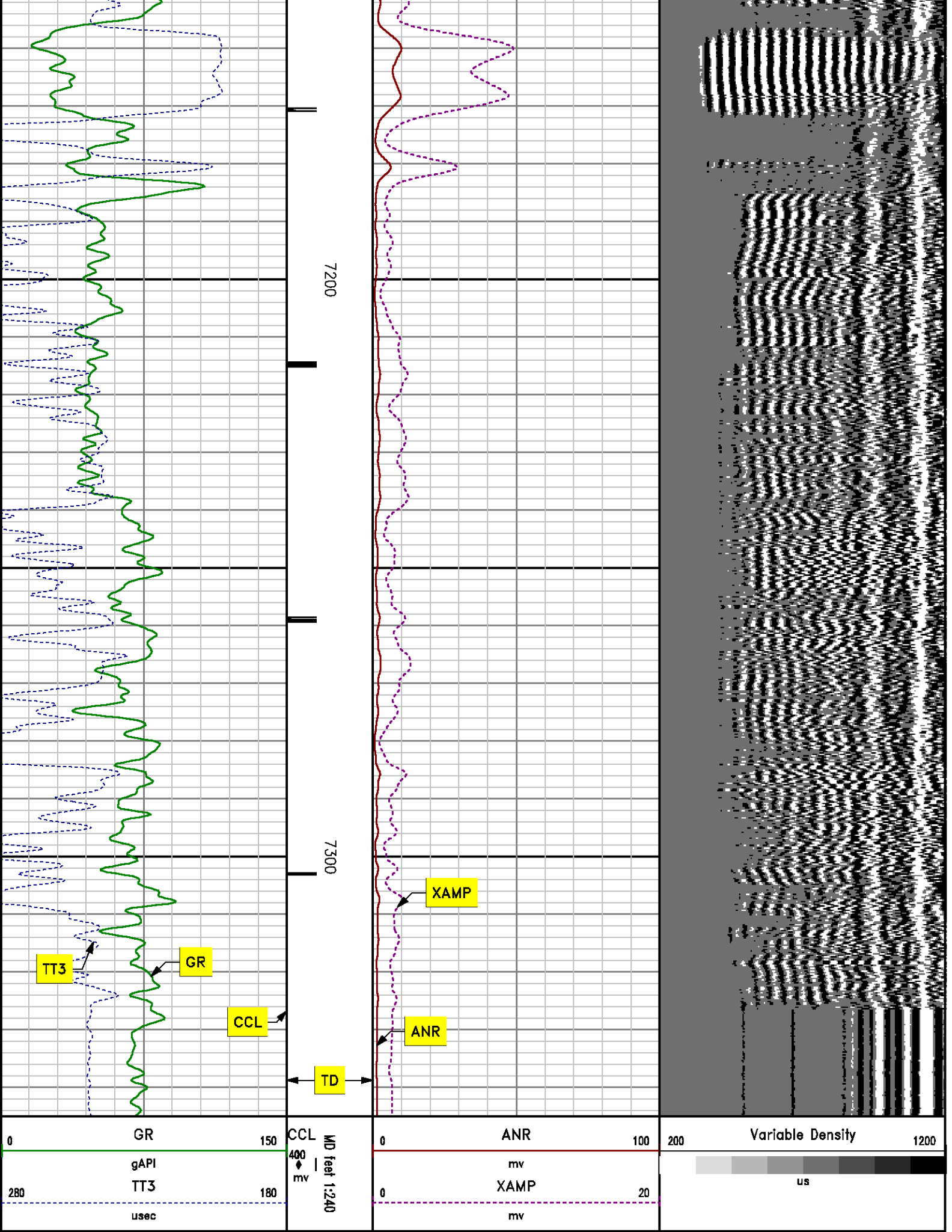












7200

7300

MD feet 1:240

TT3 GR

CCL

TD

XAMP

ANR

0 GR 150
gAPI
280 TT3 180
usec

0 ANR 100
mv
0 XAMP 20
mv

200 Variable Density 1200
us

SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
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Company : WPX ENERGY

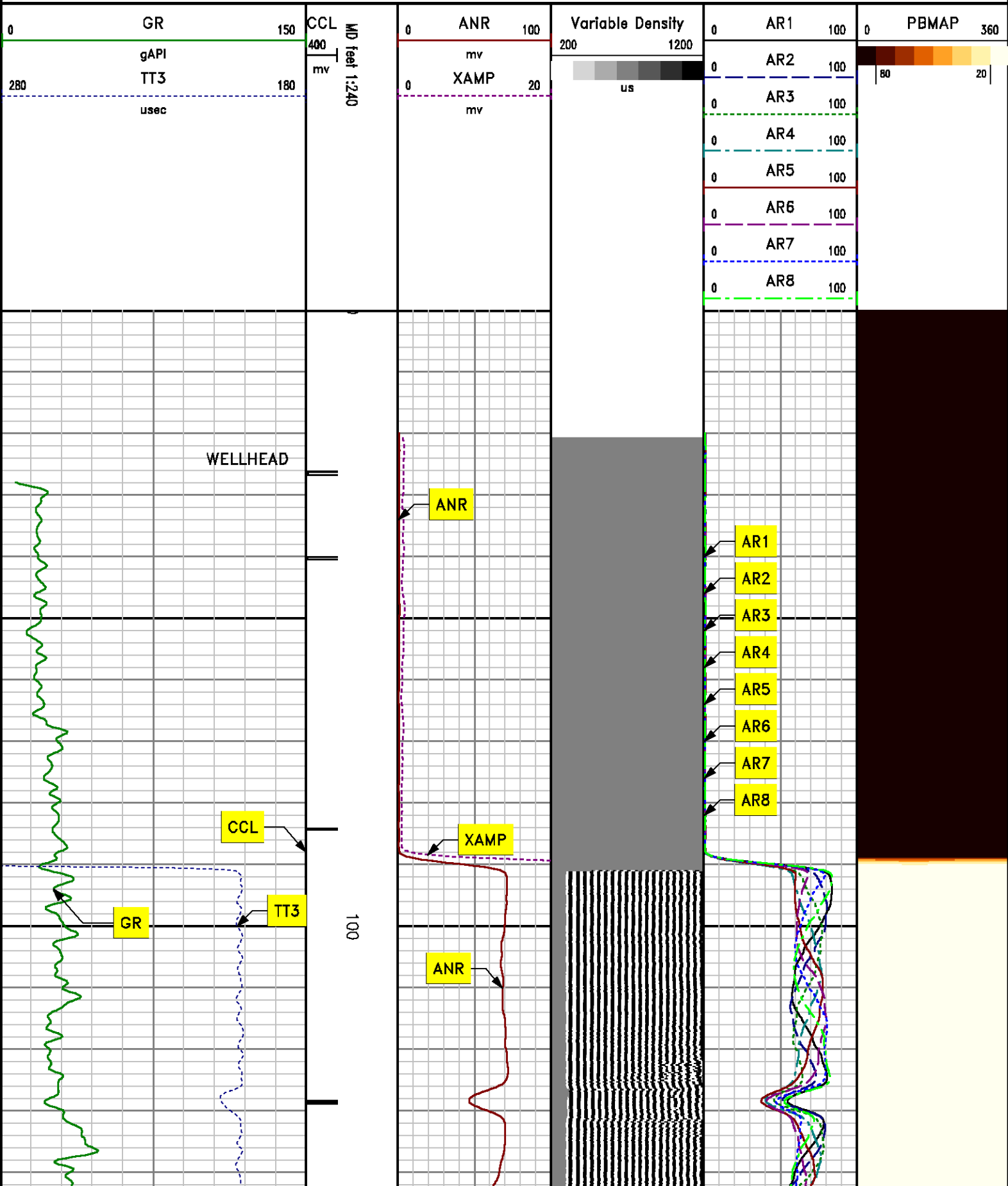
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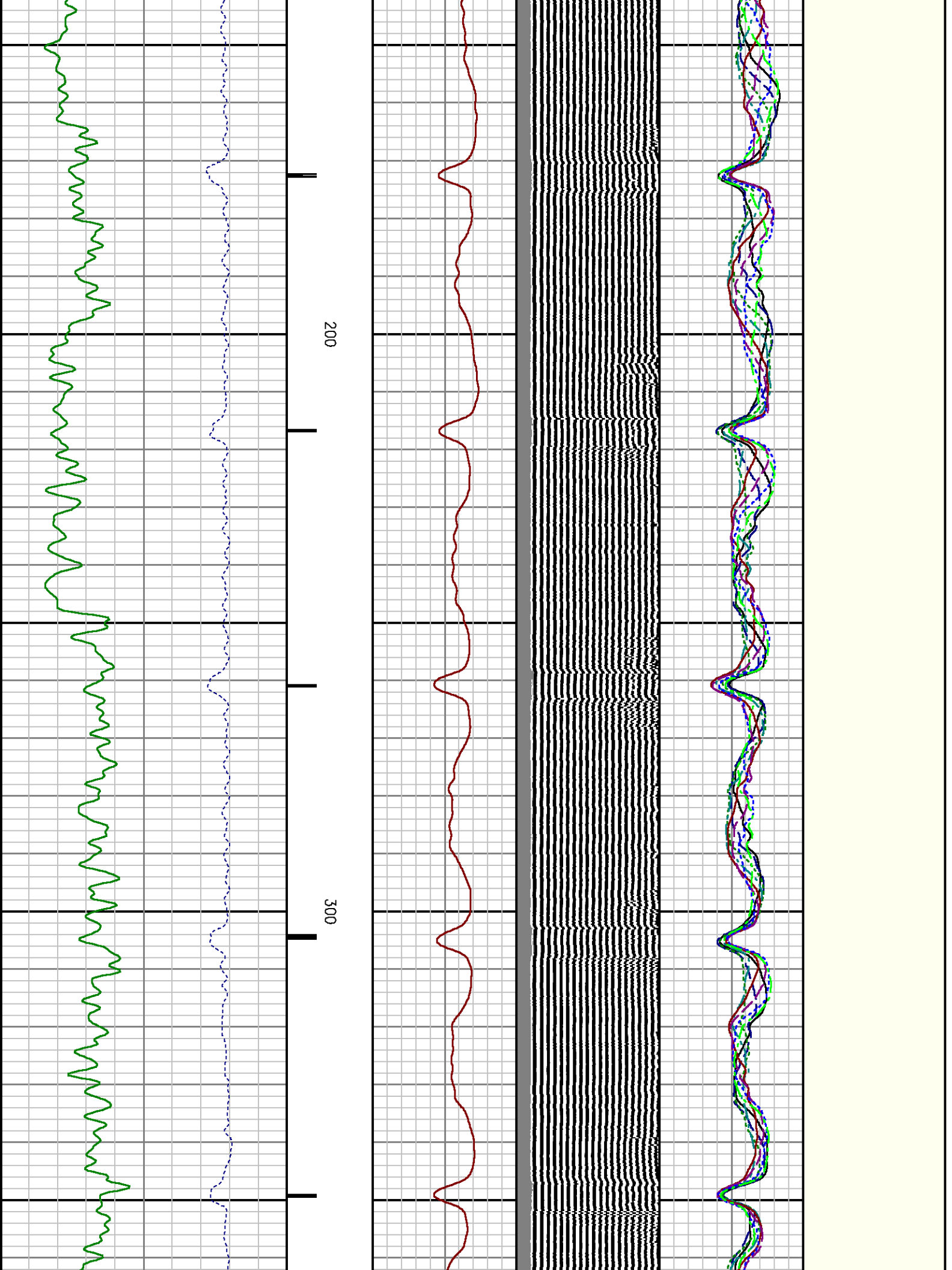
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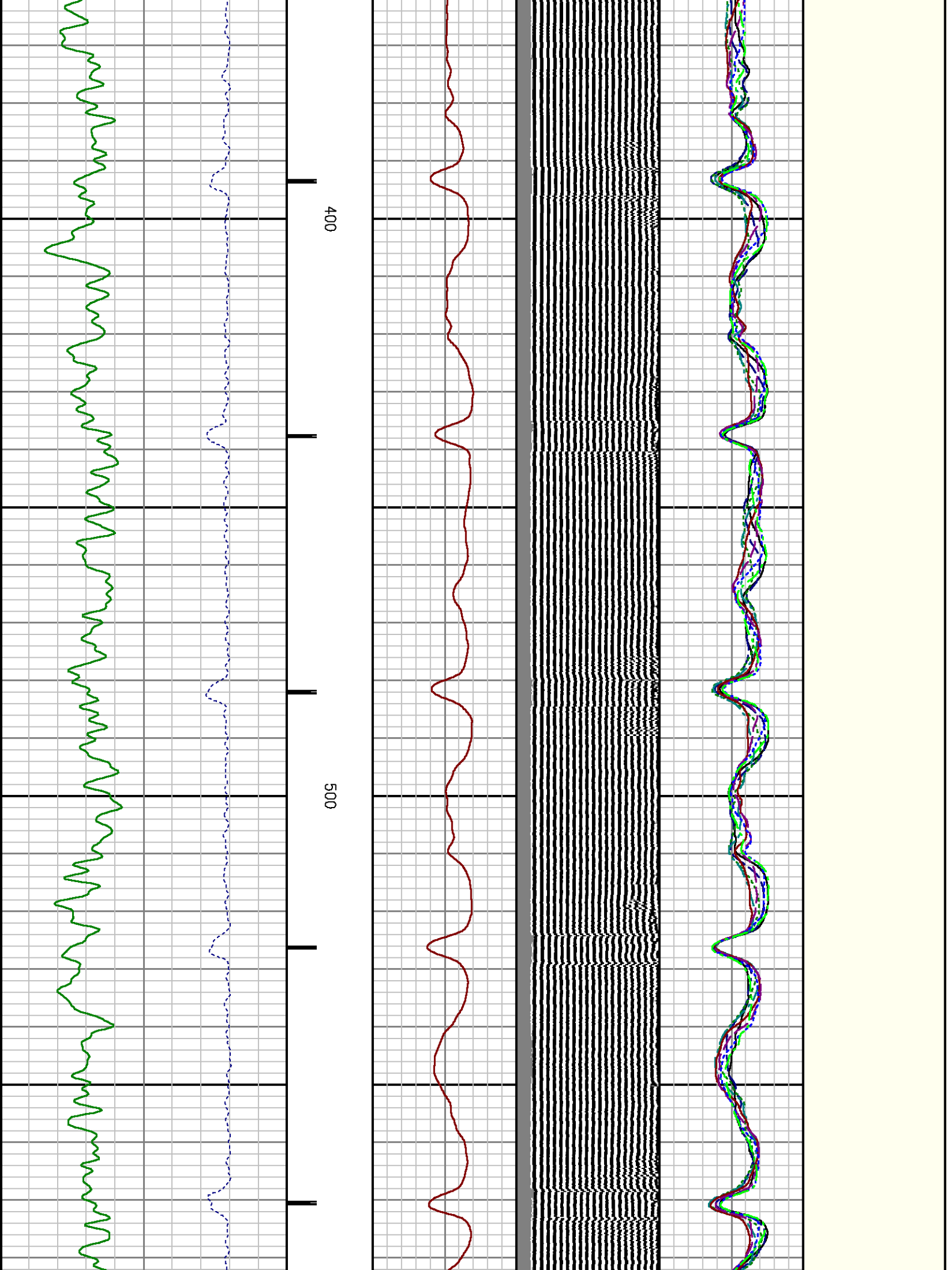
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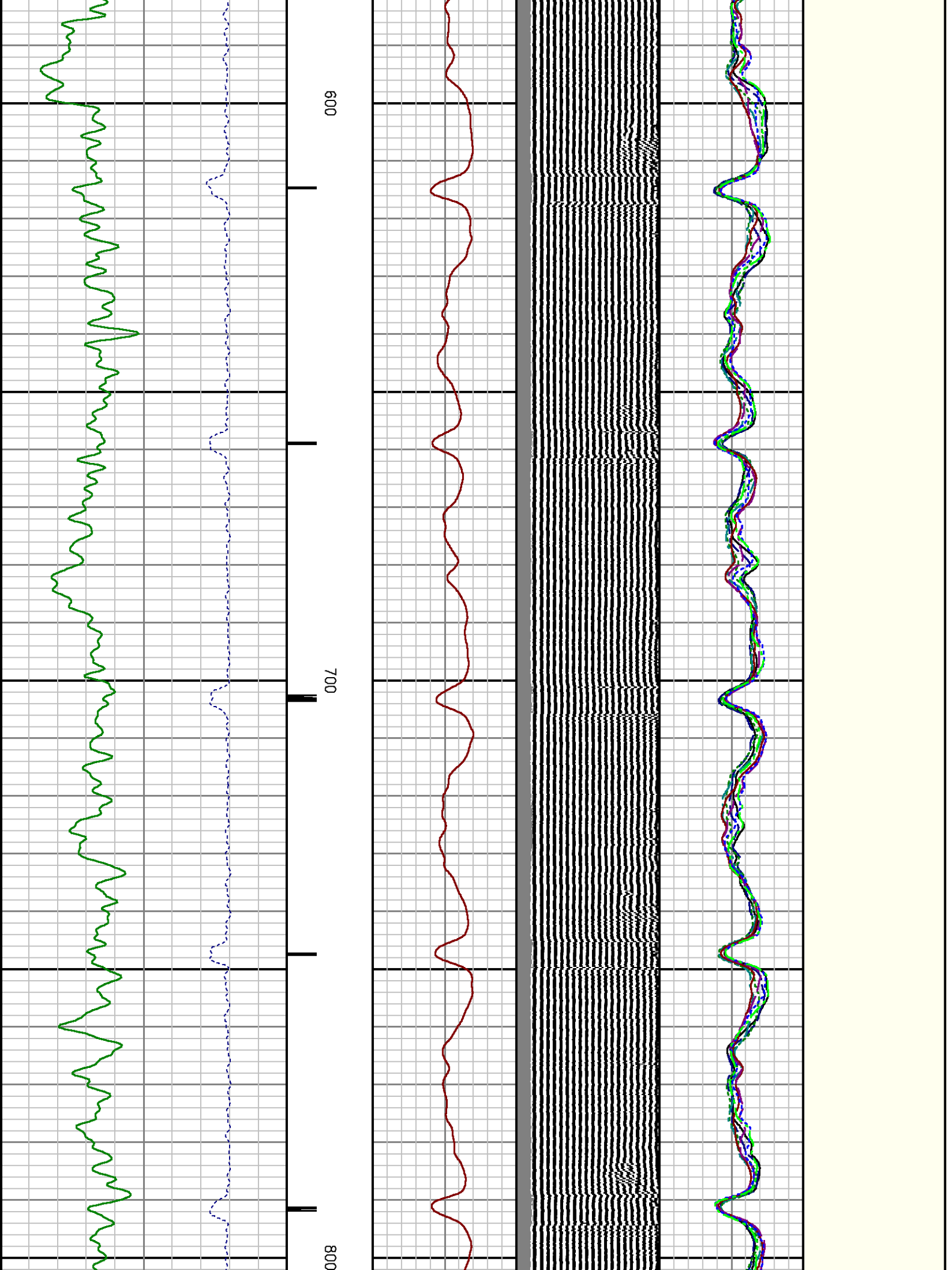
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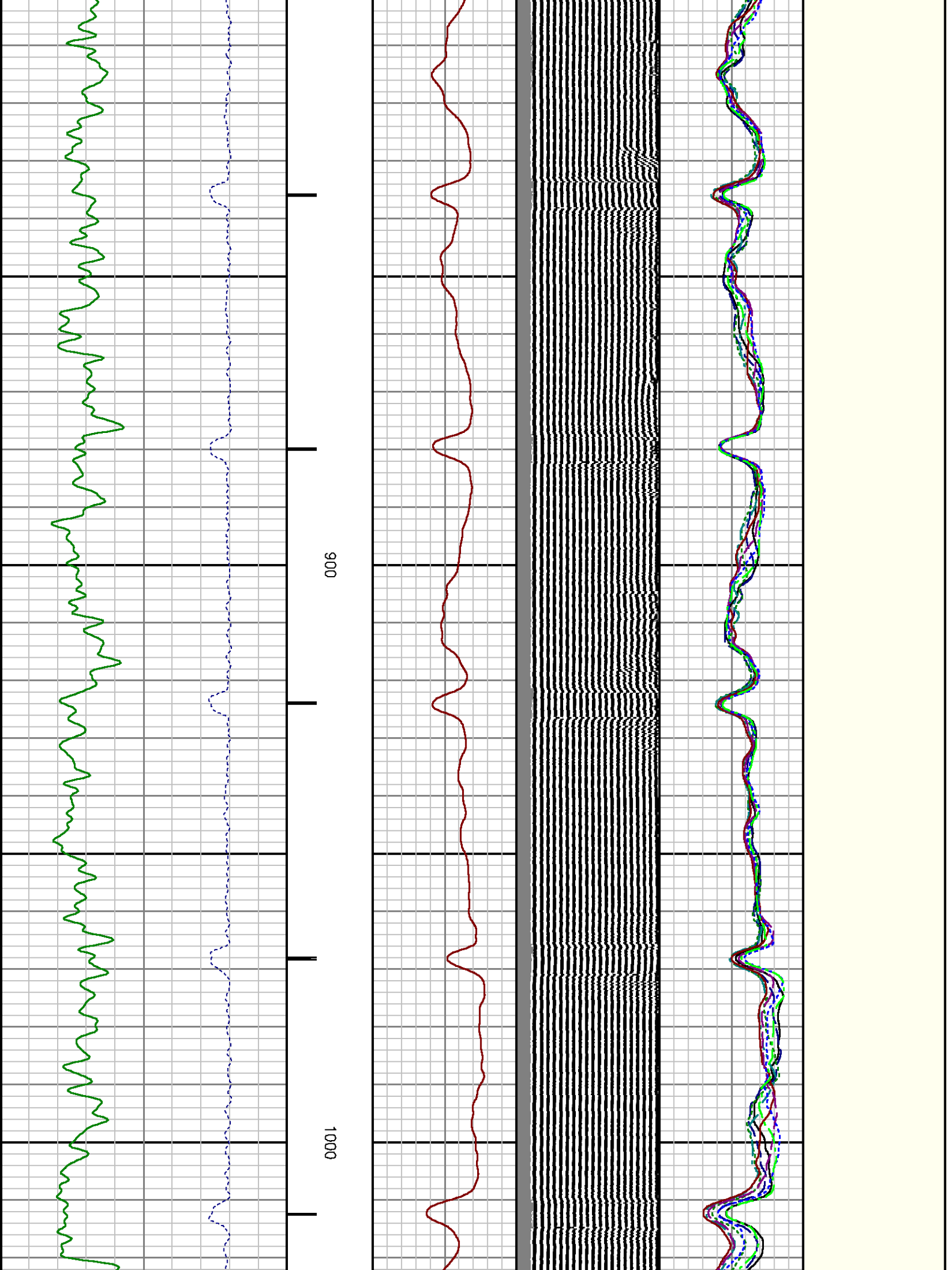
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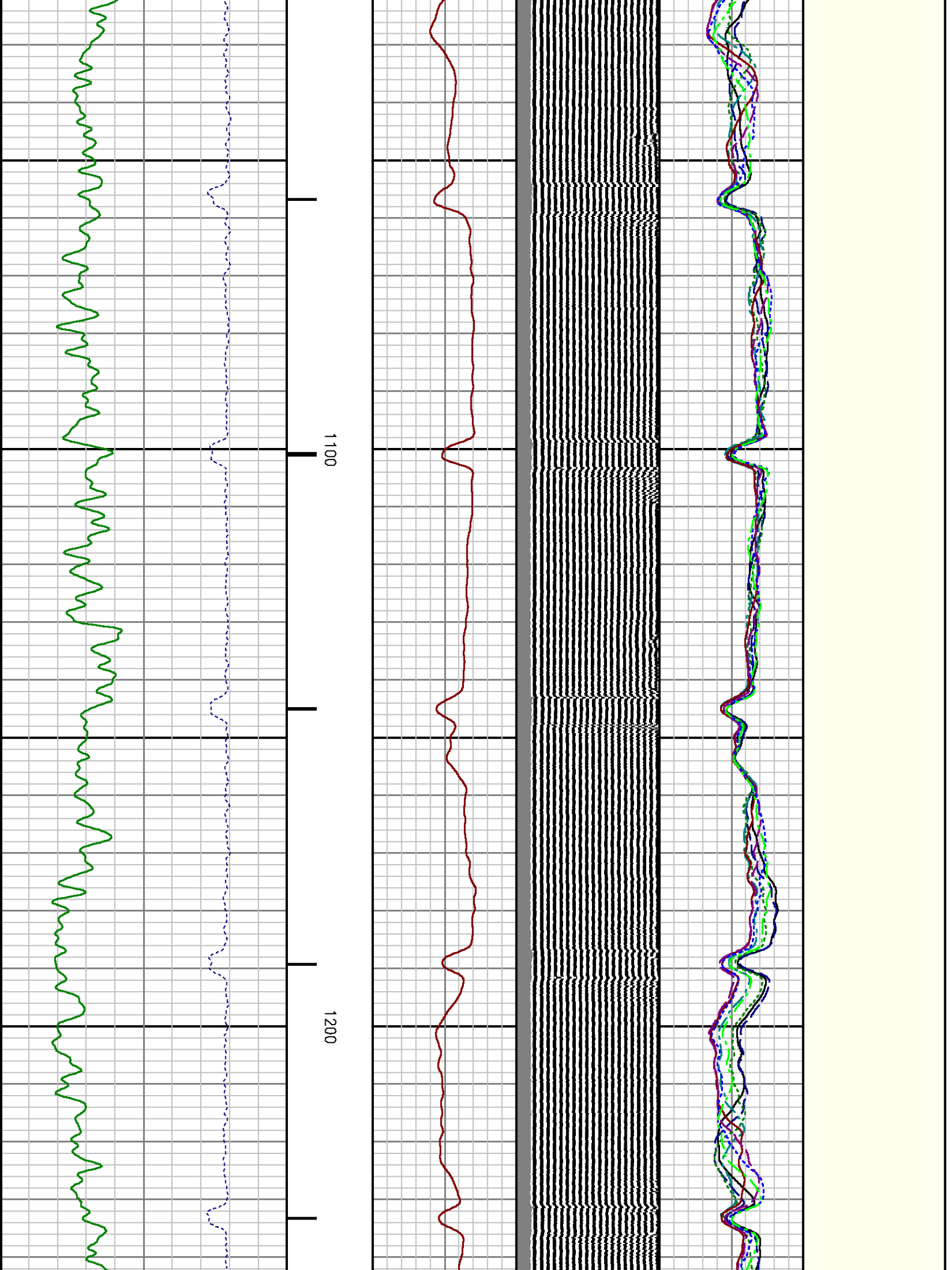


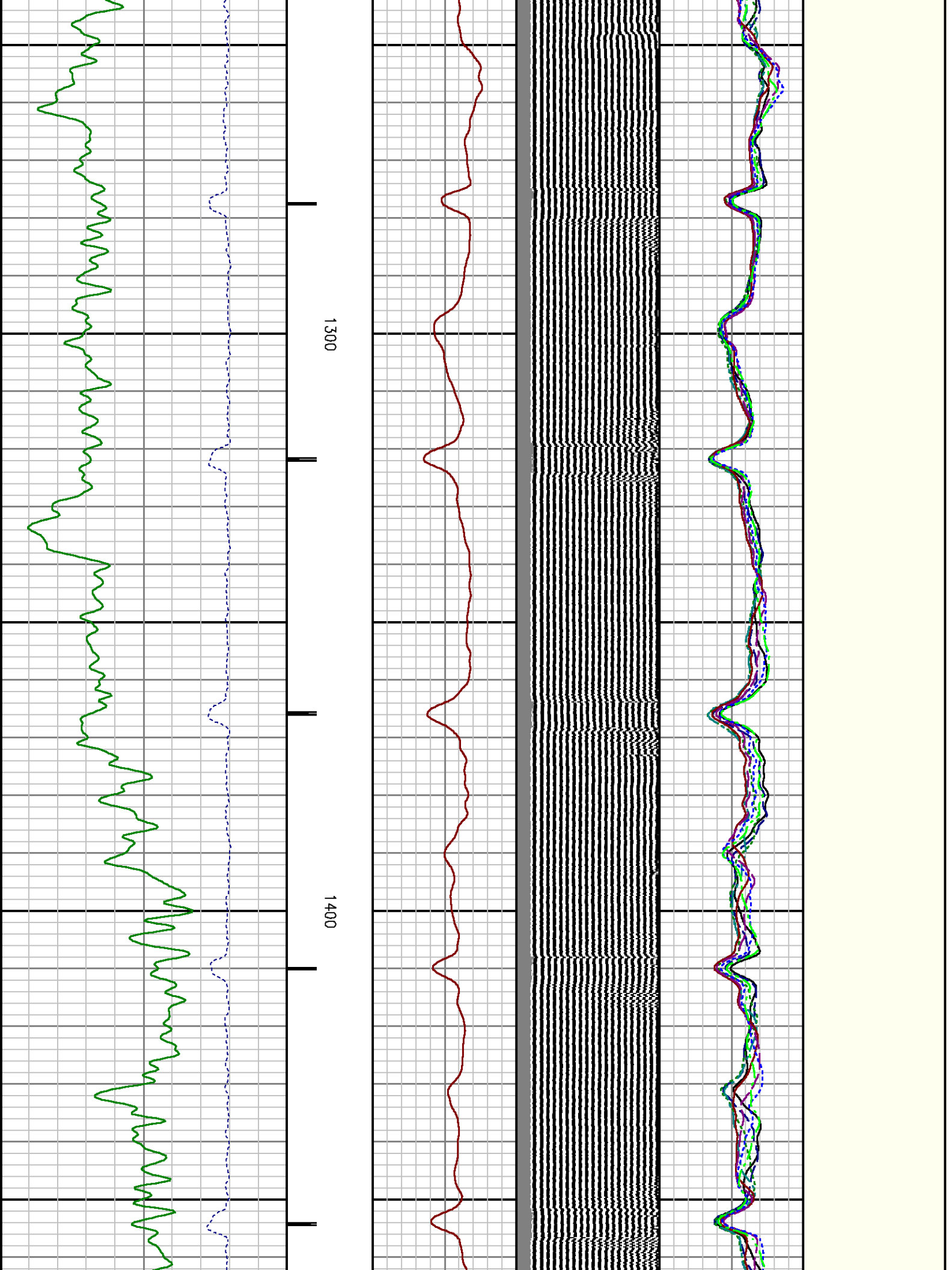


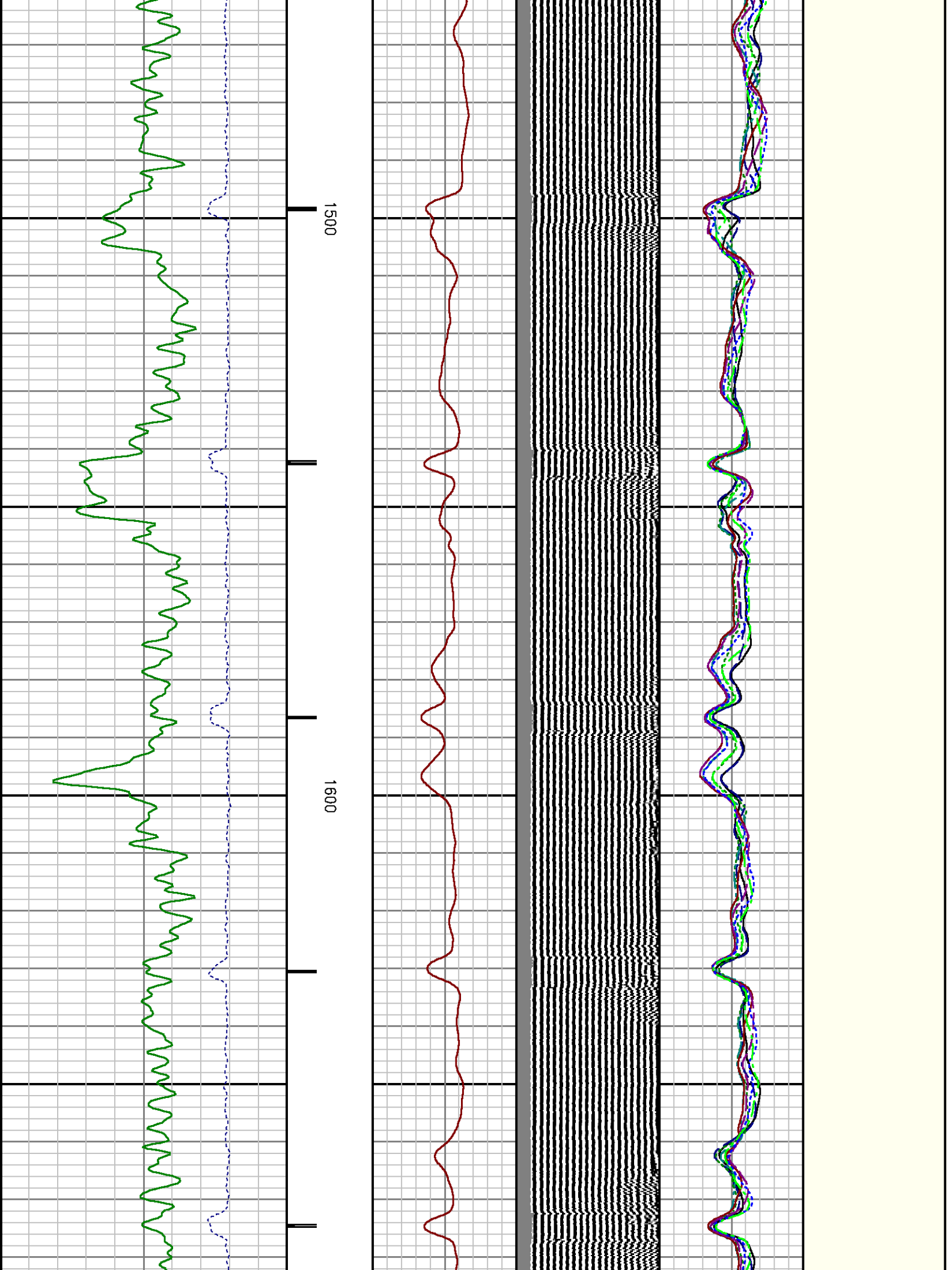


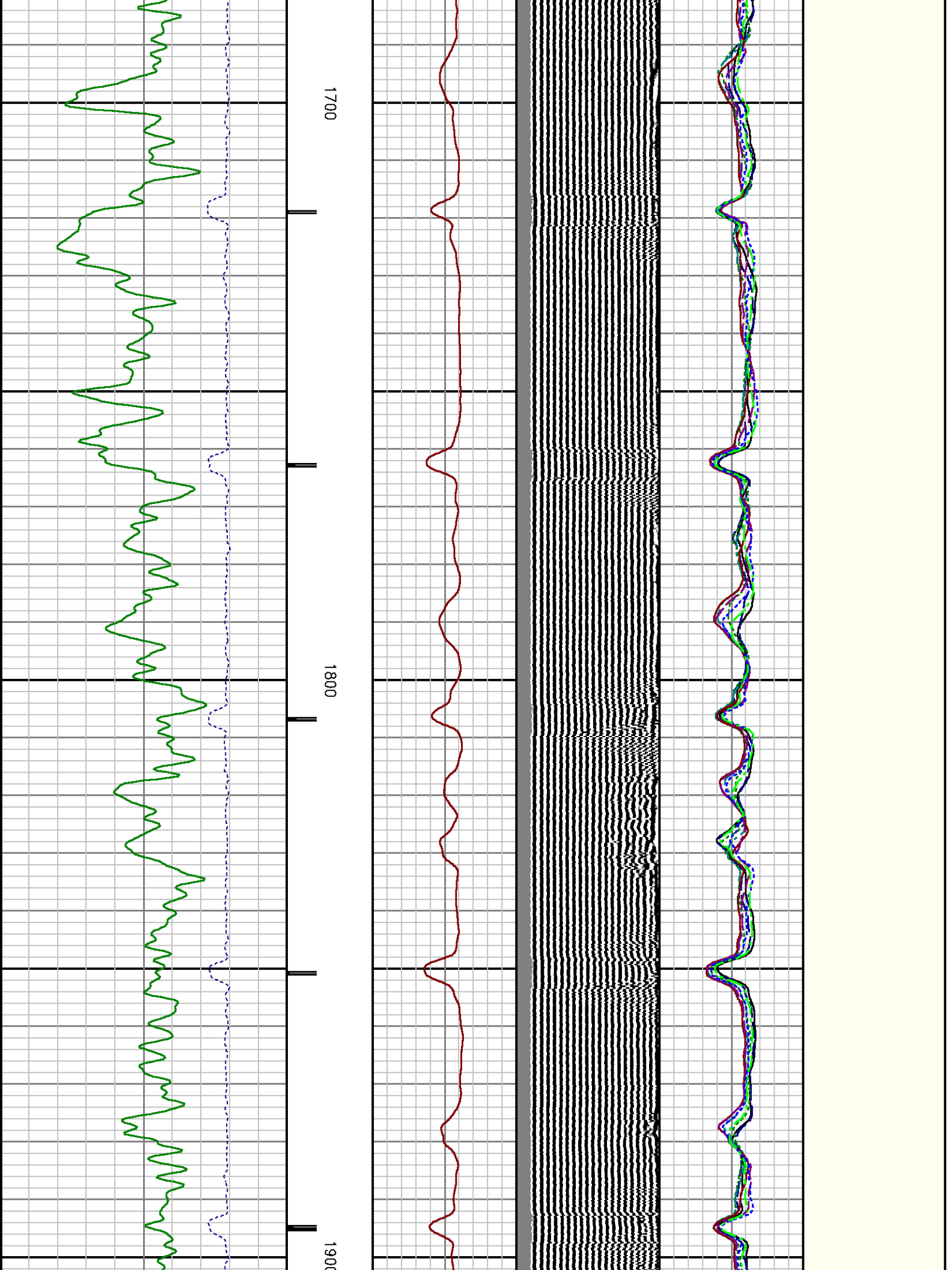


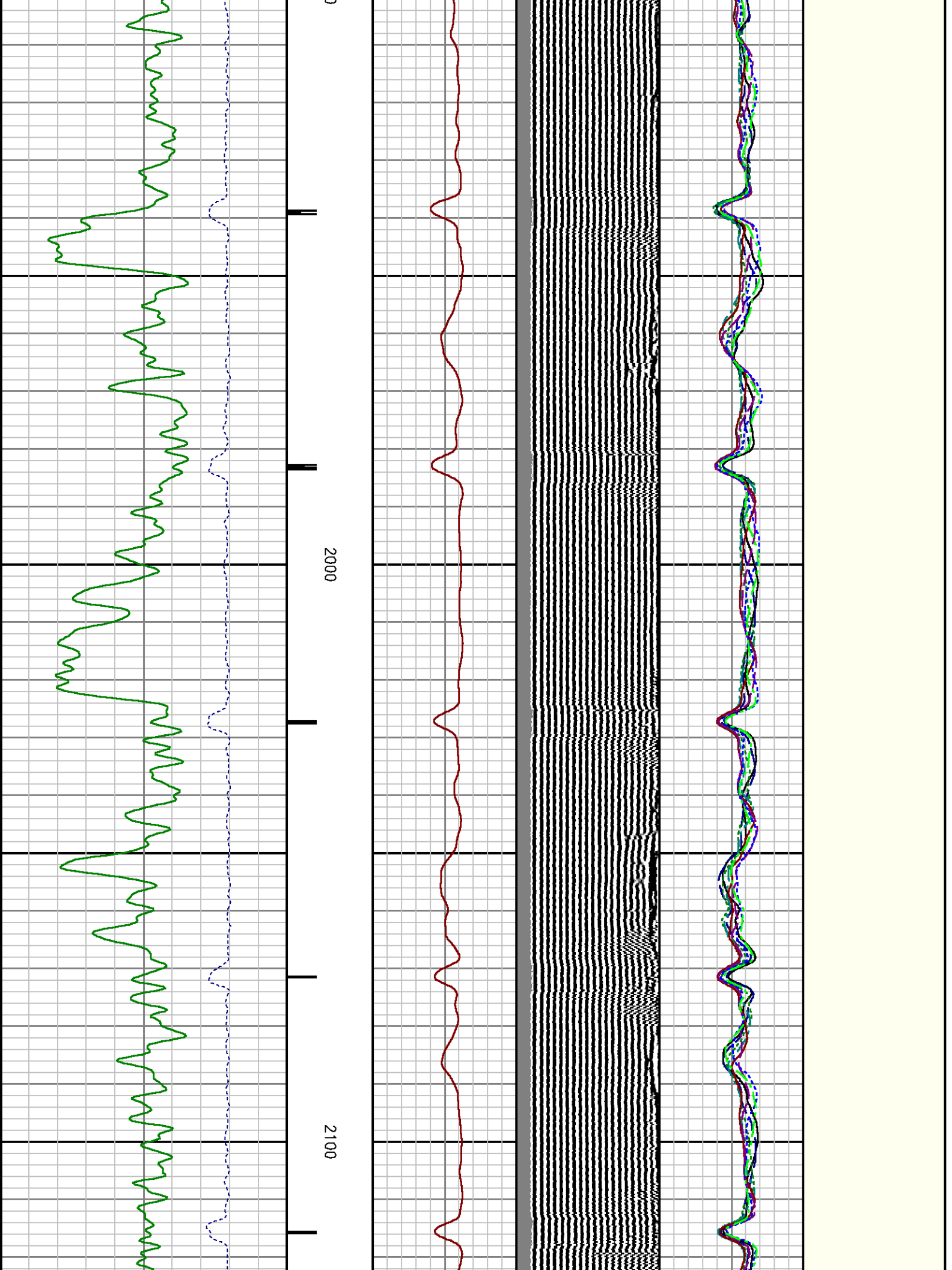


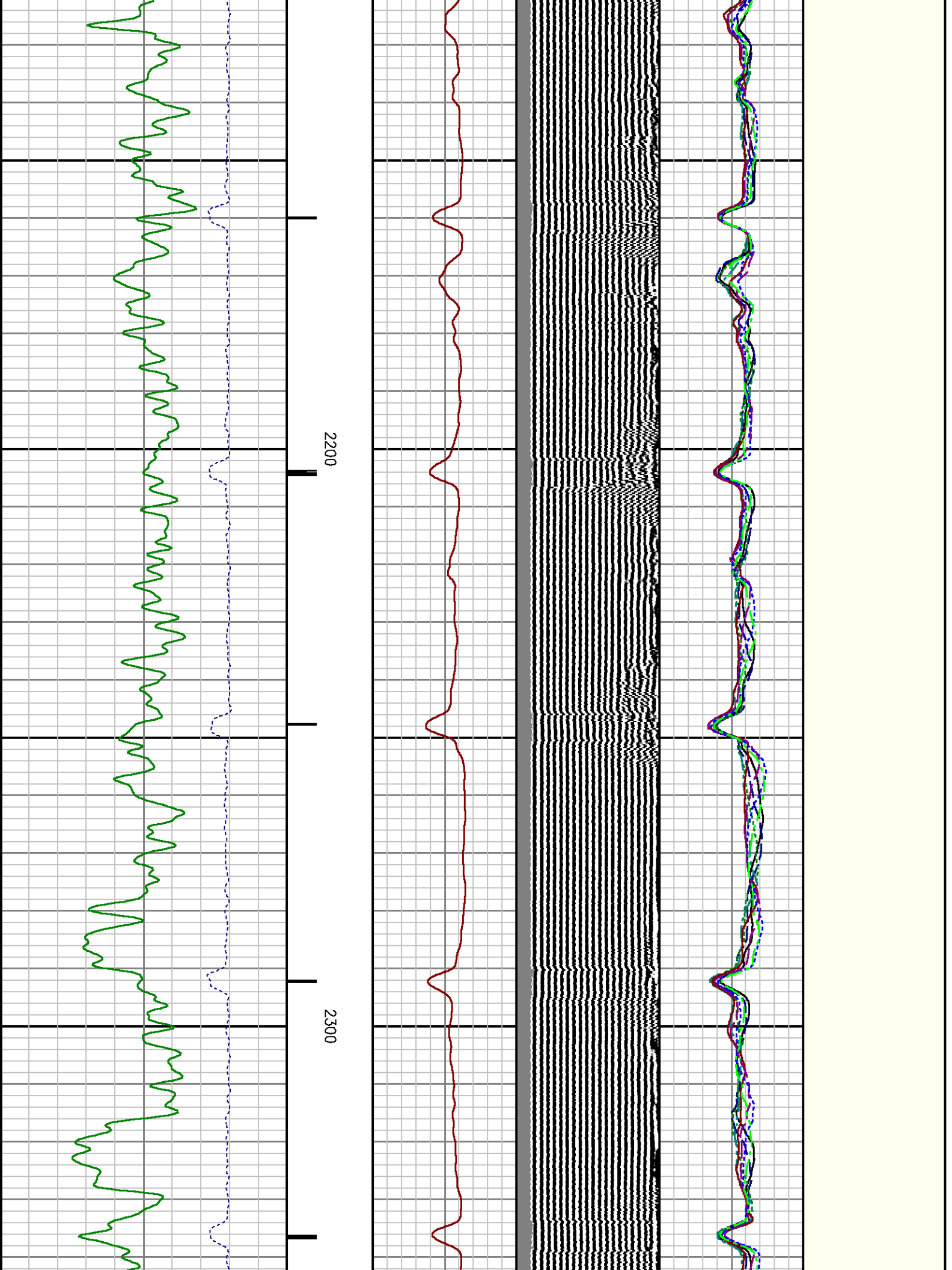


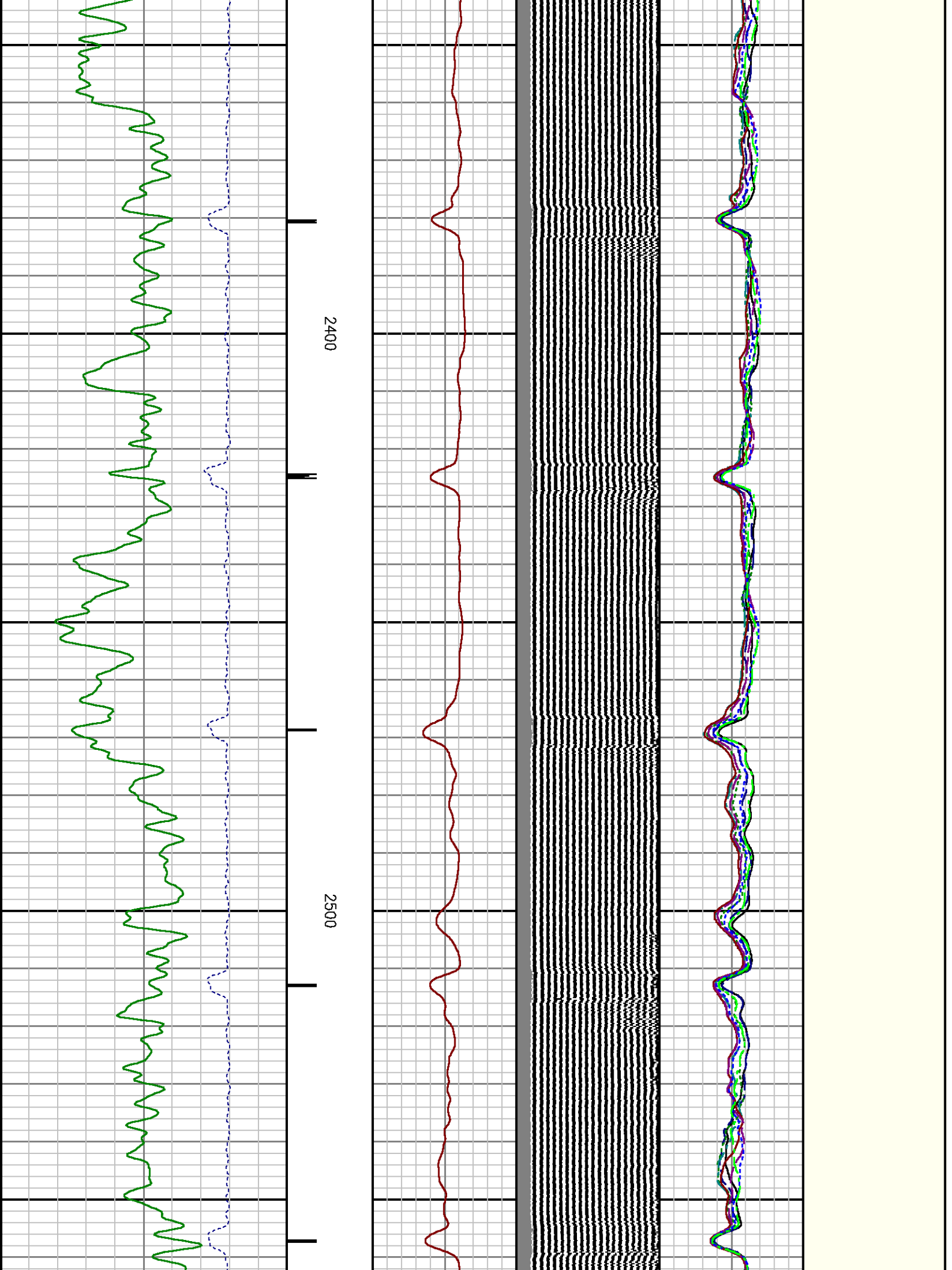


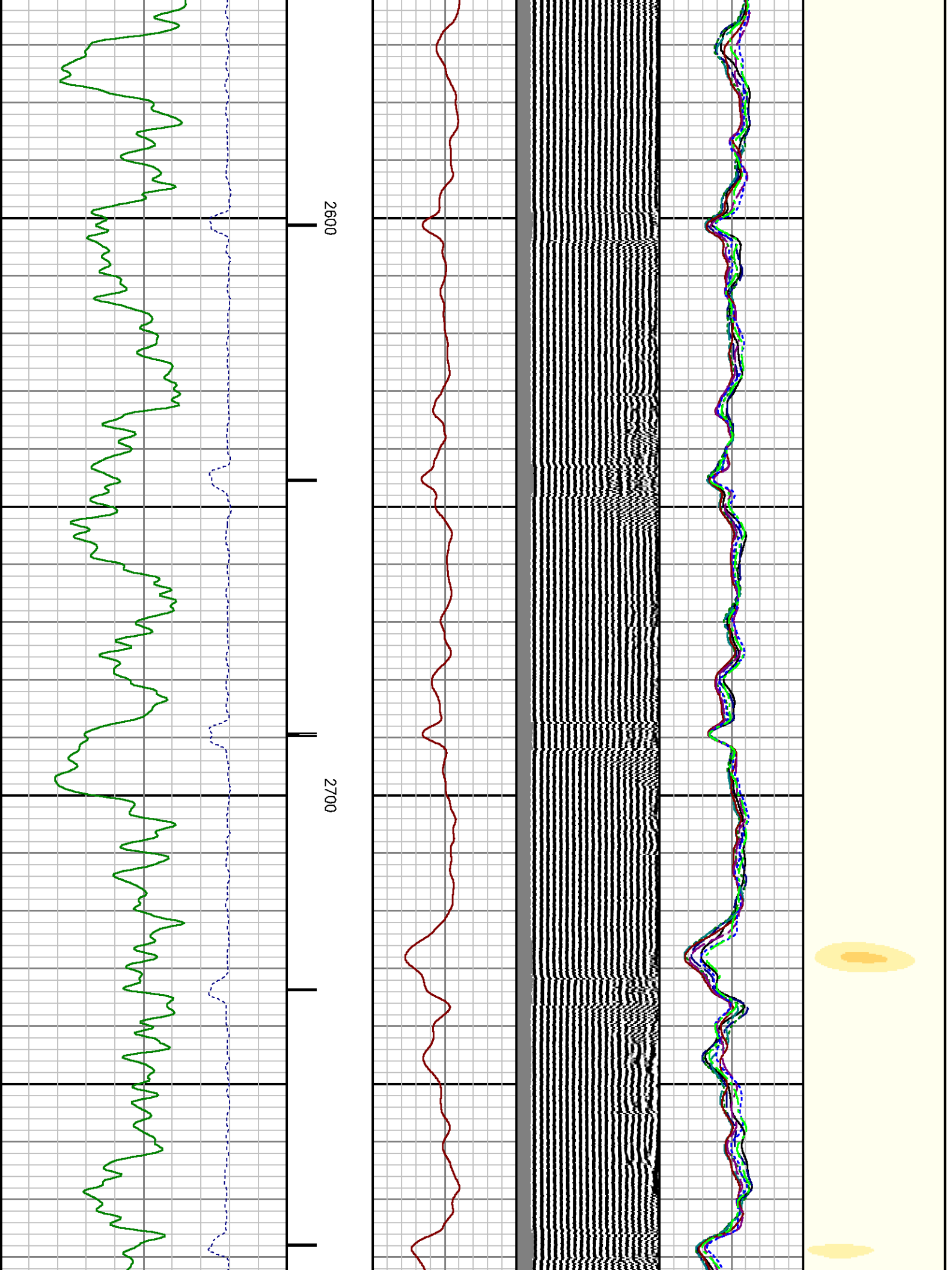


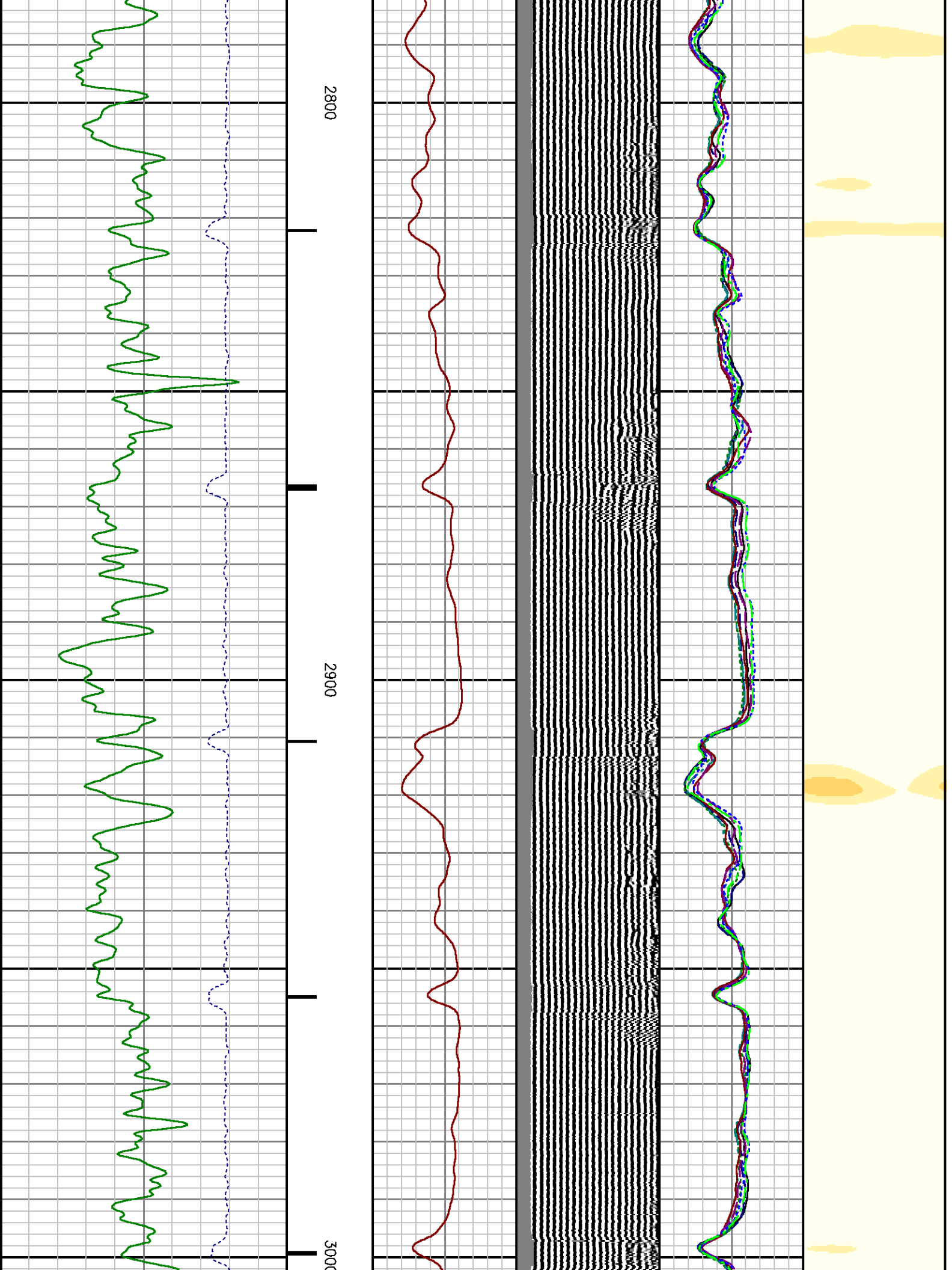


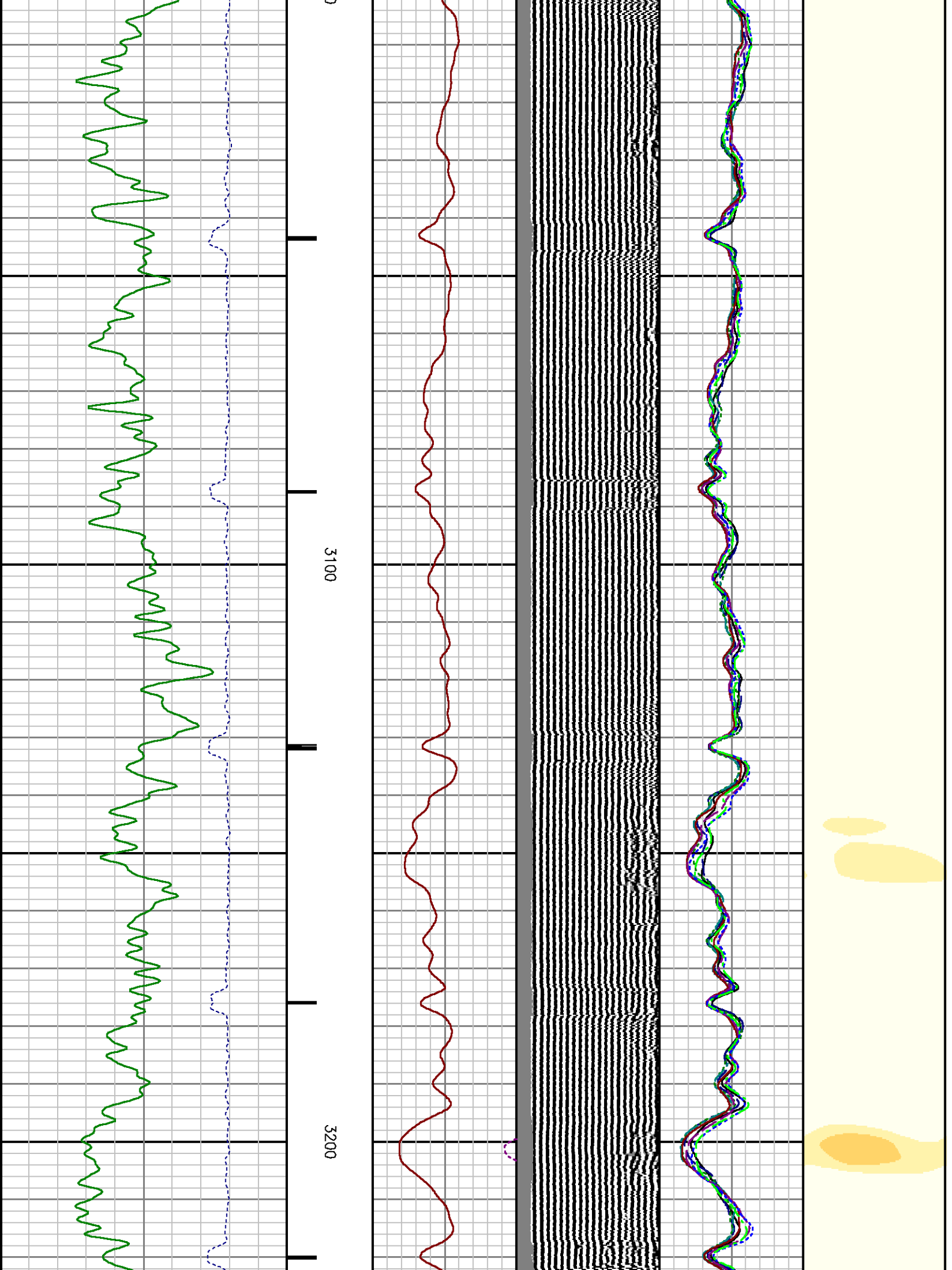


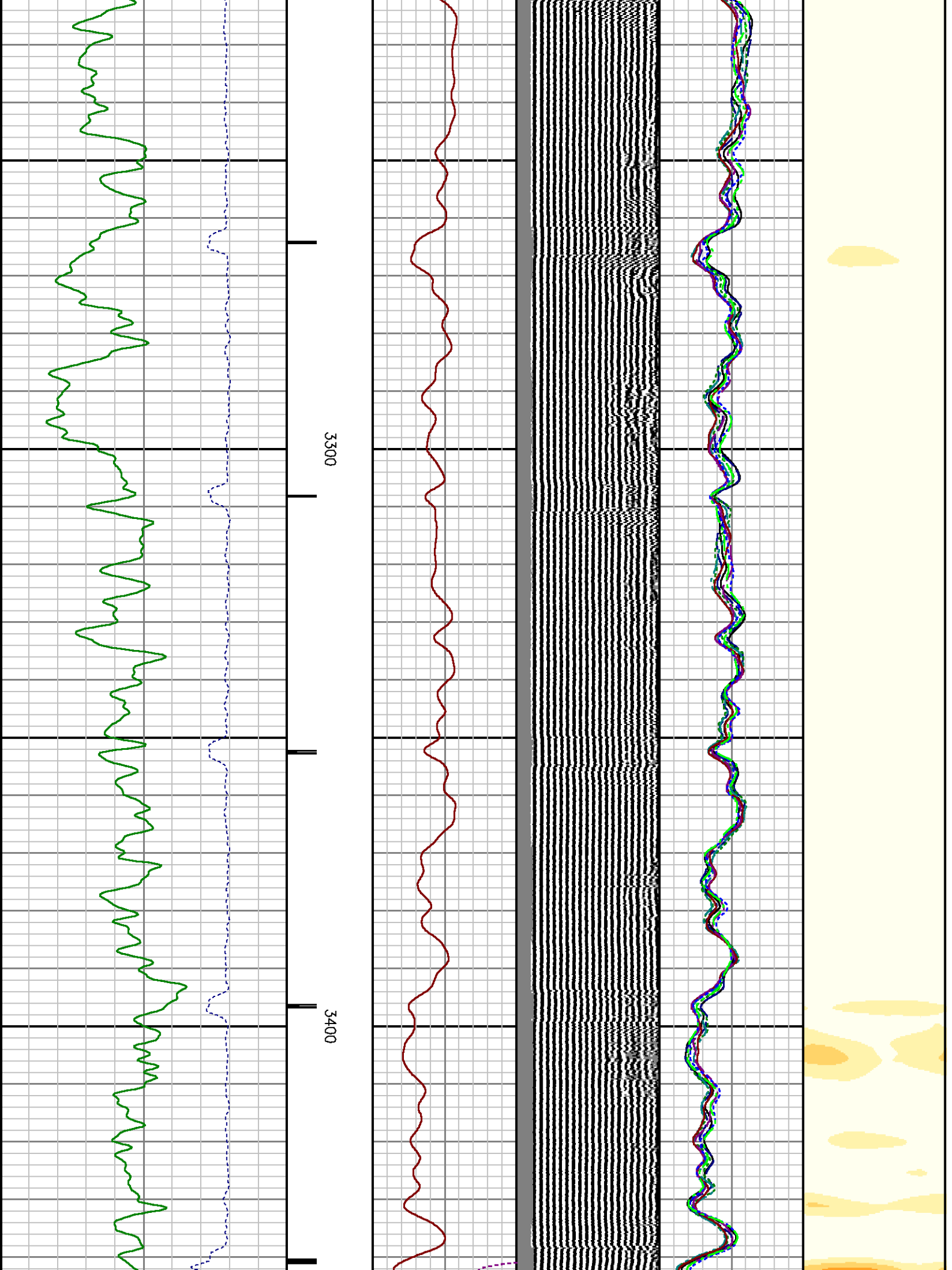


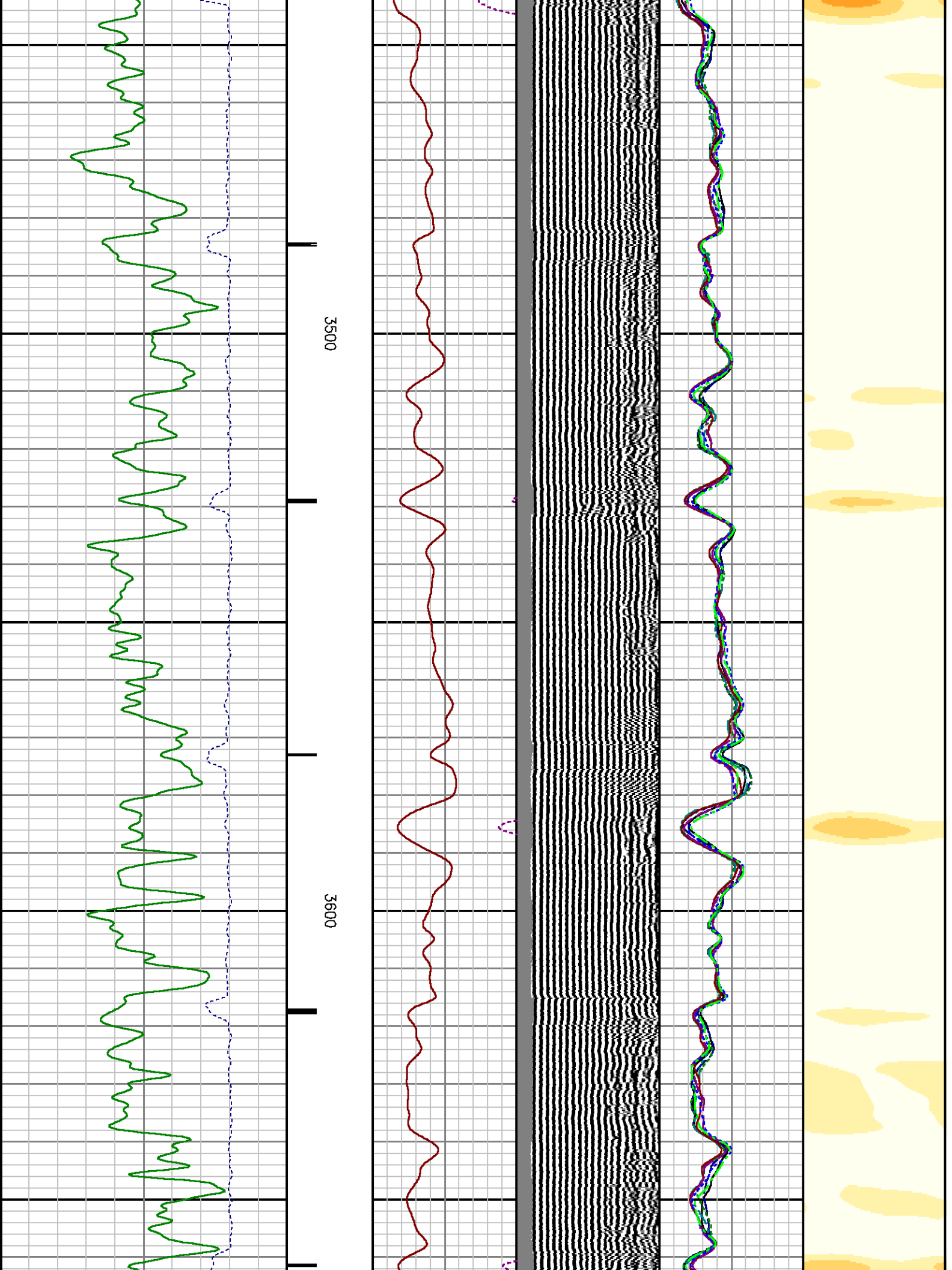


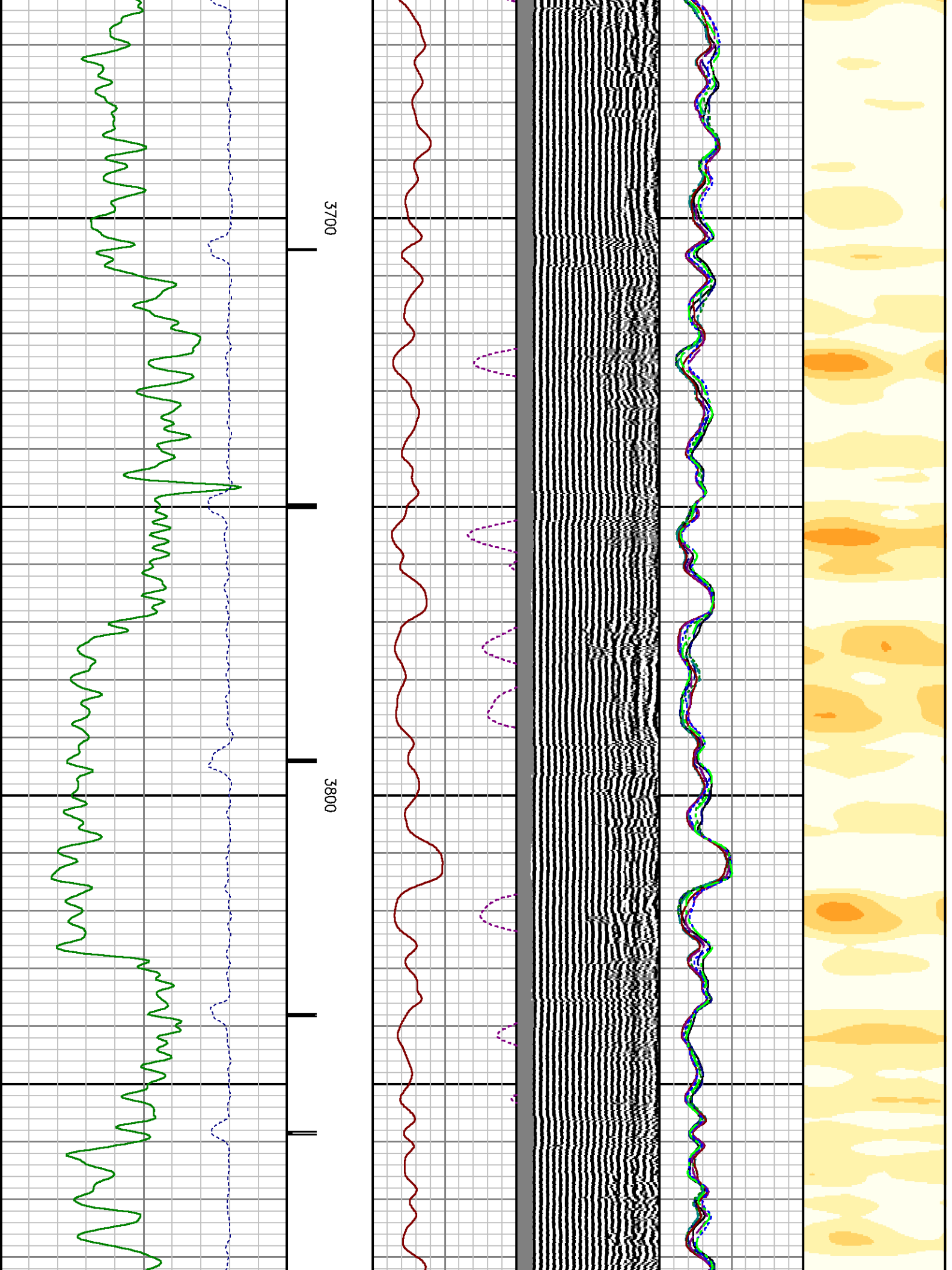


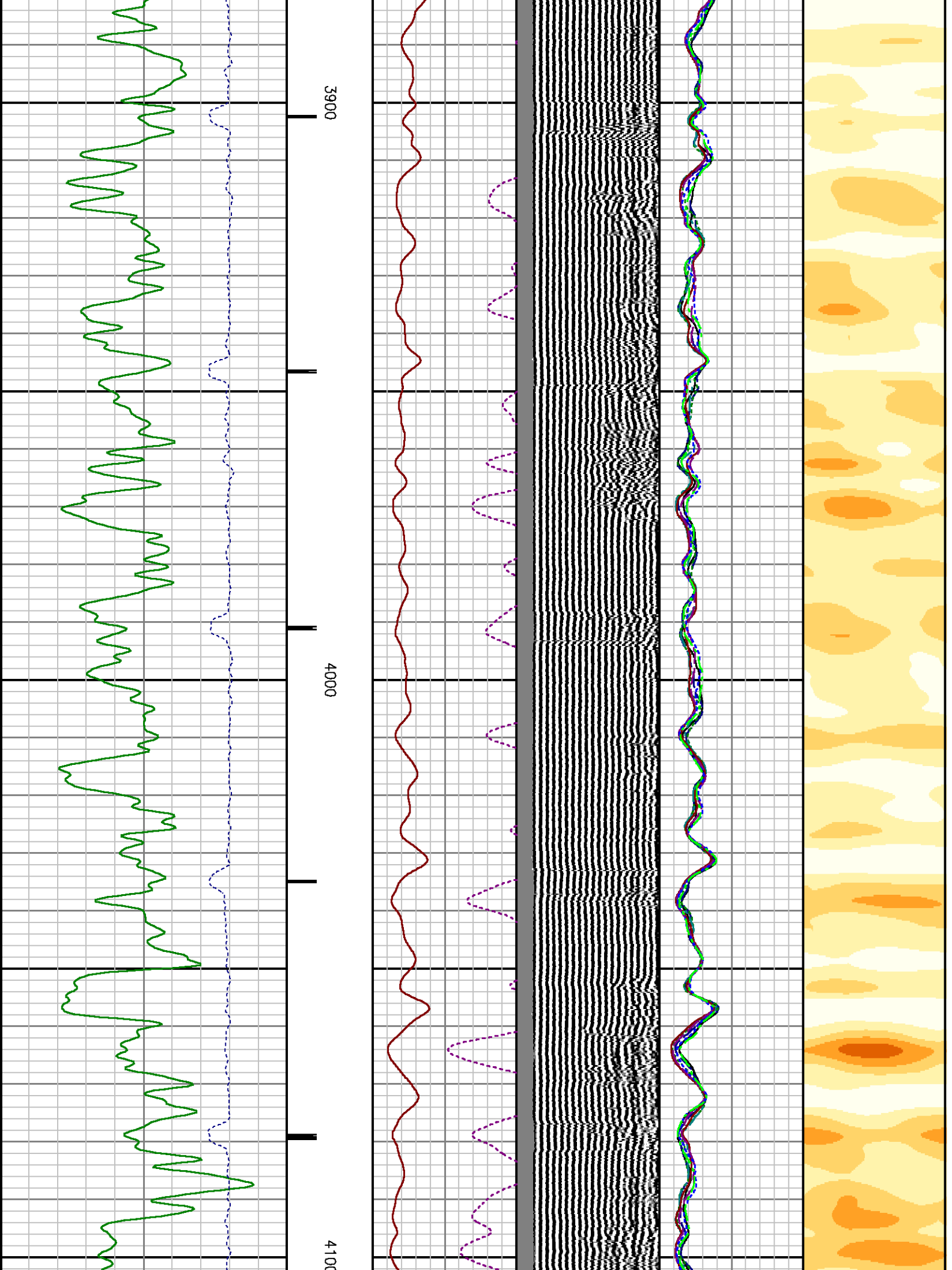


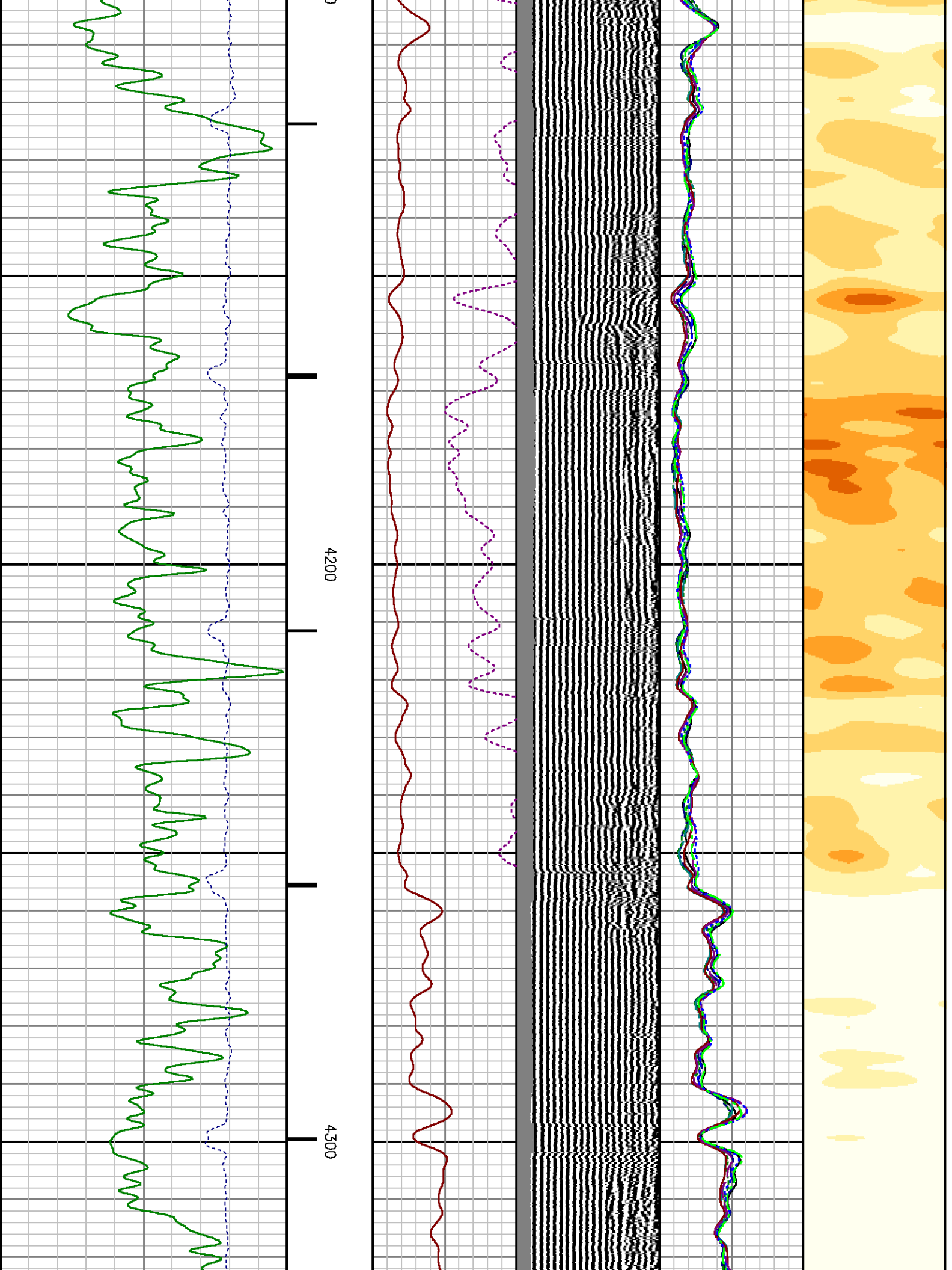


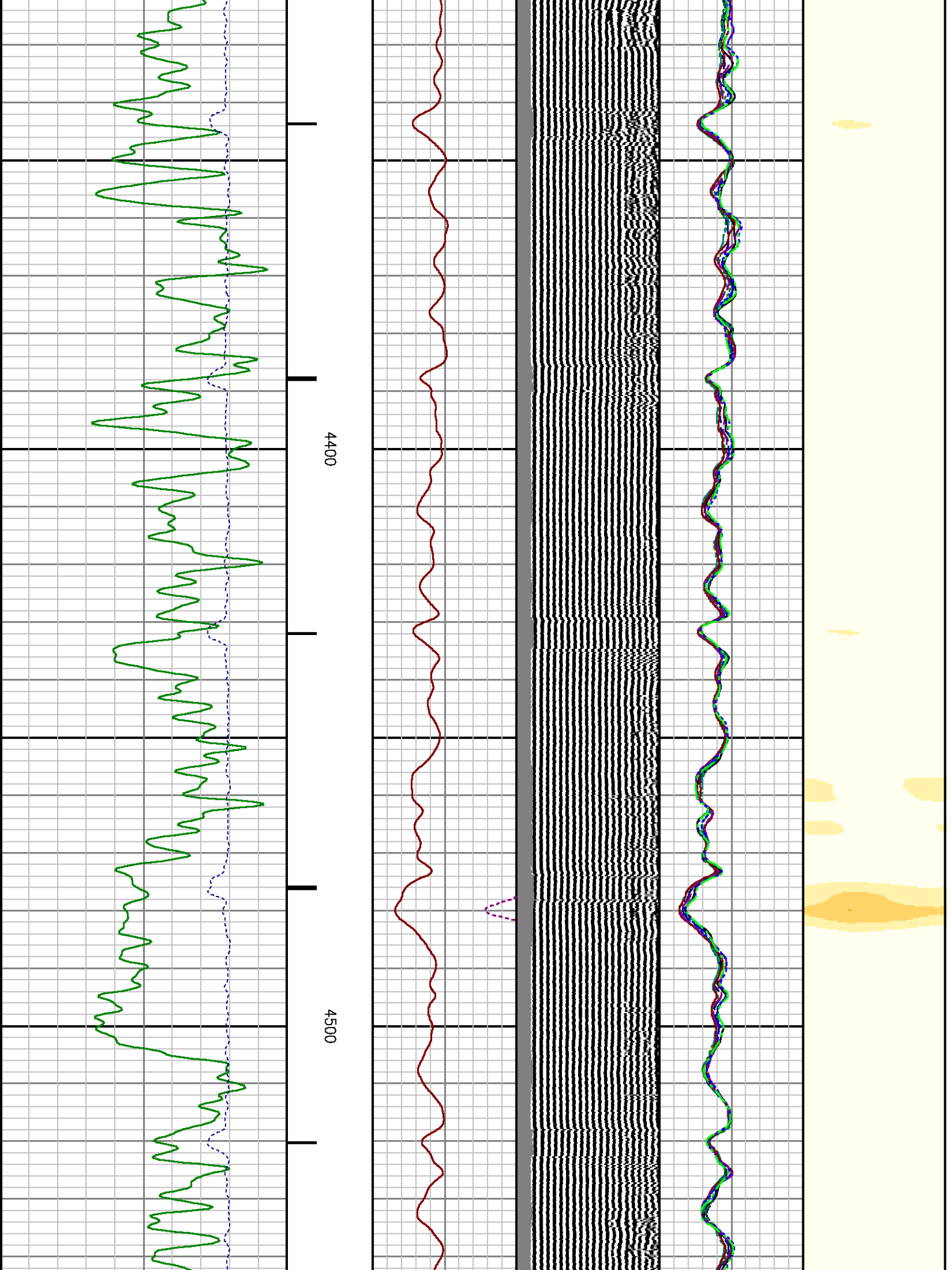


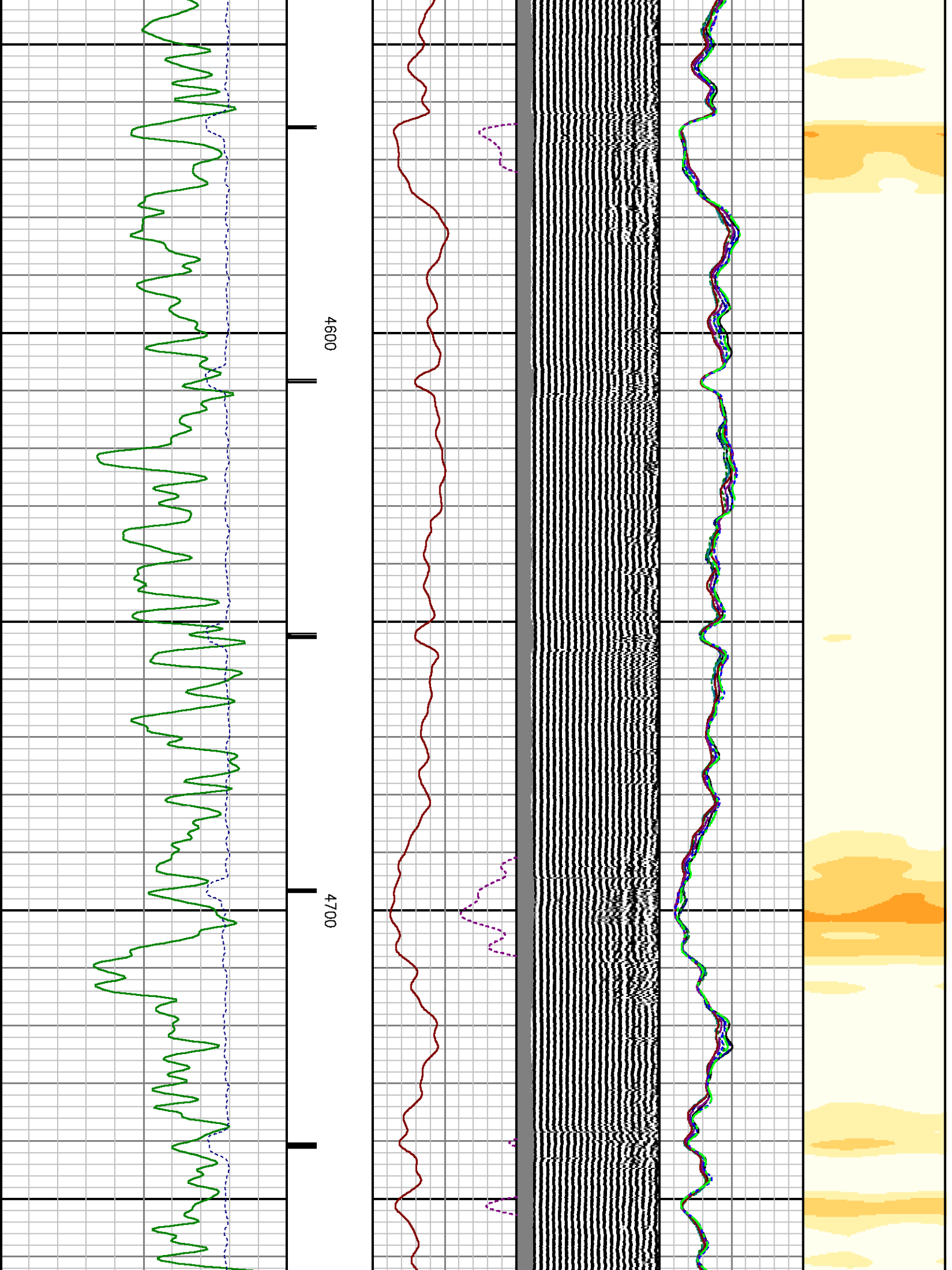


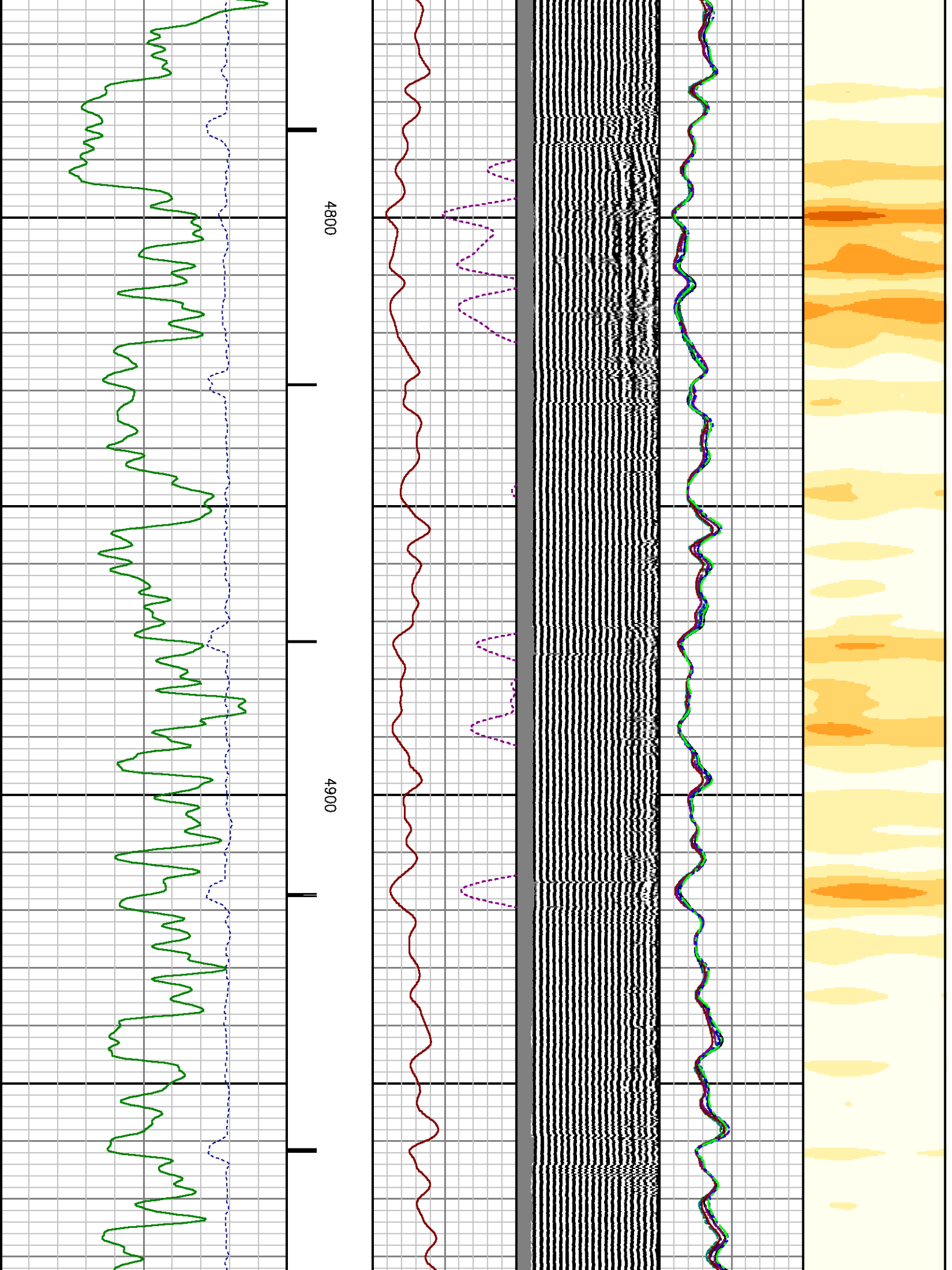


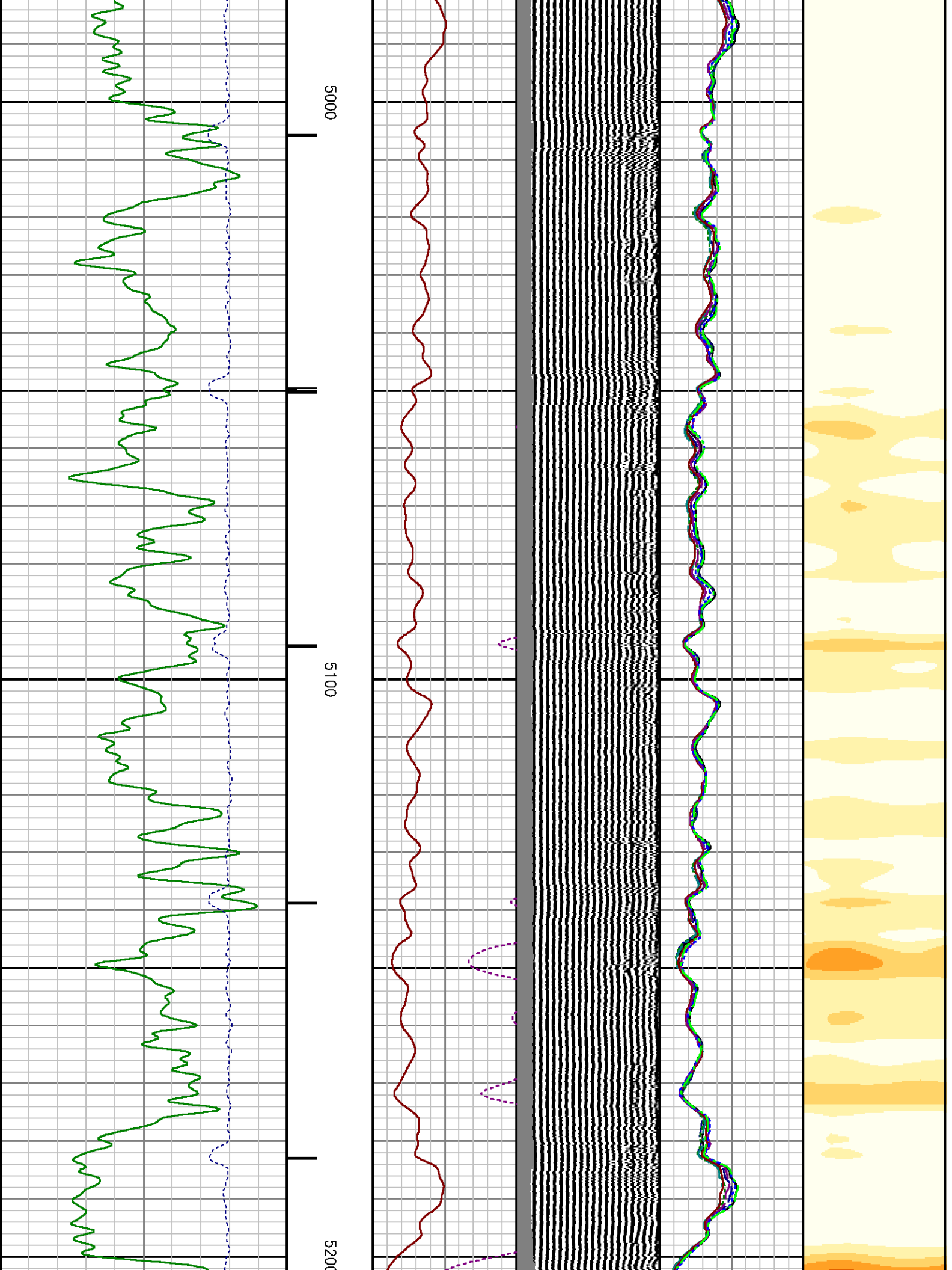


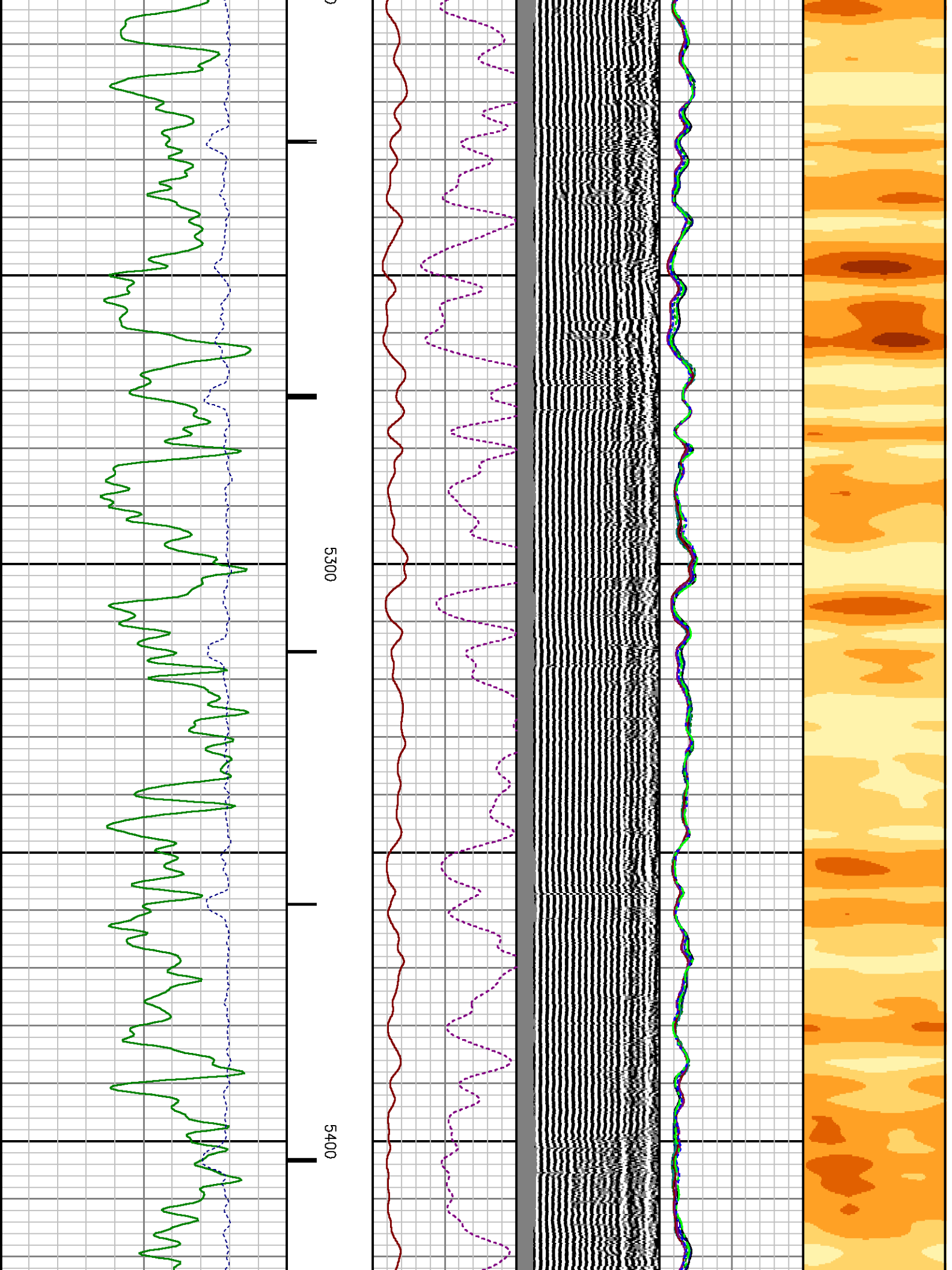


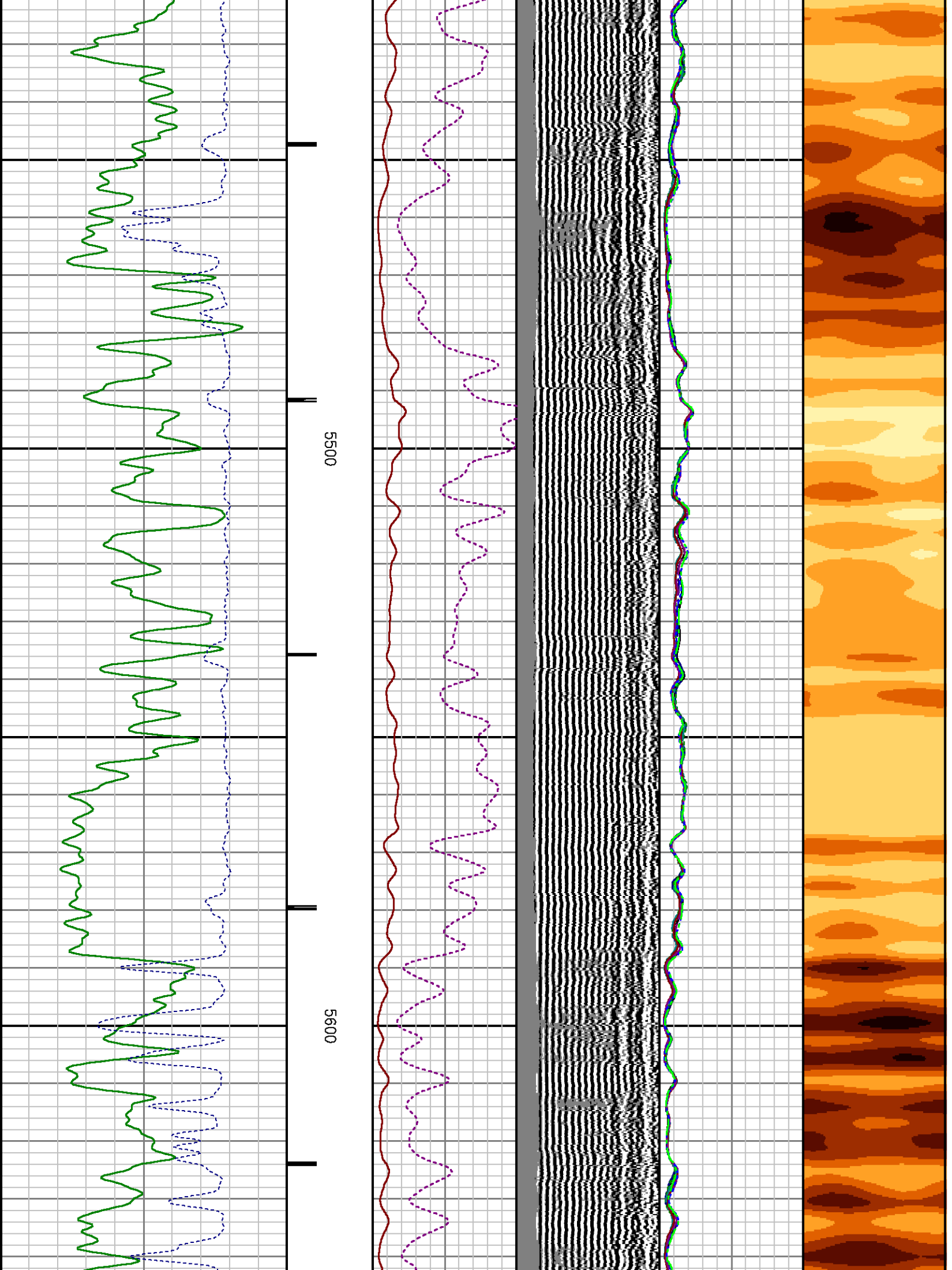


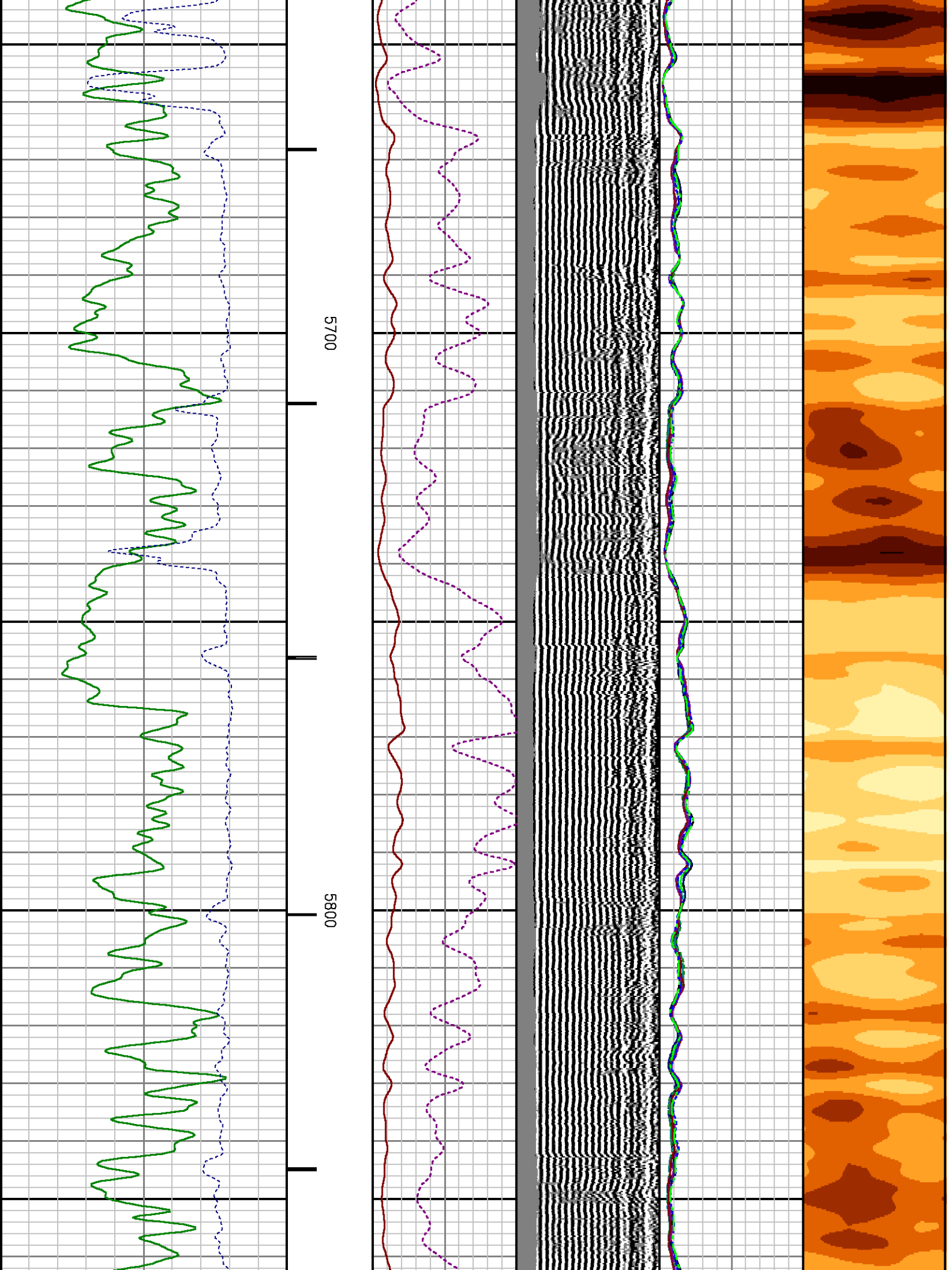


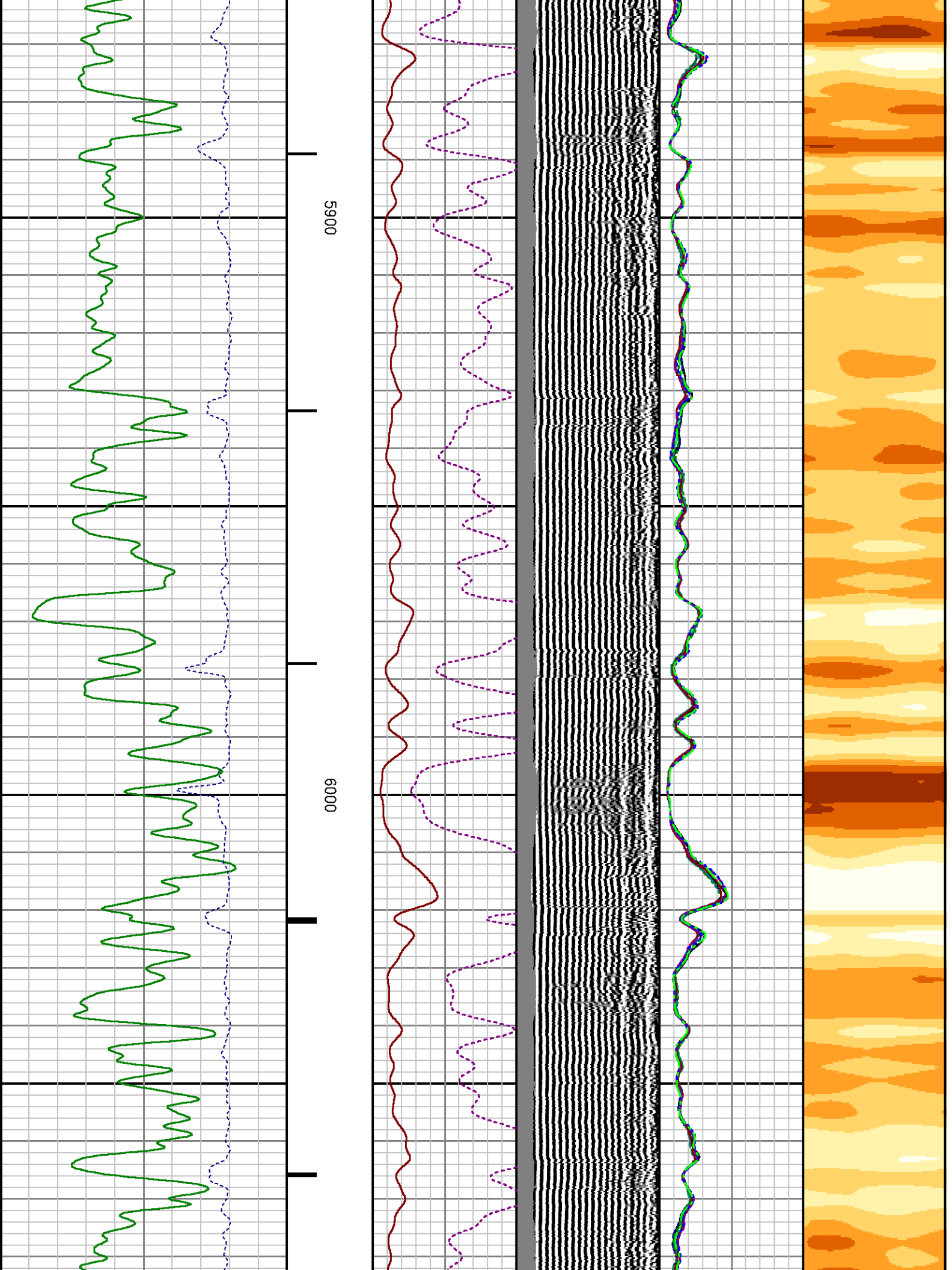


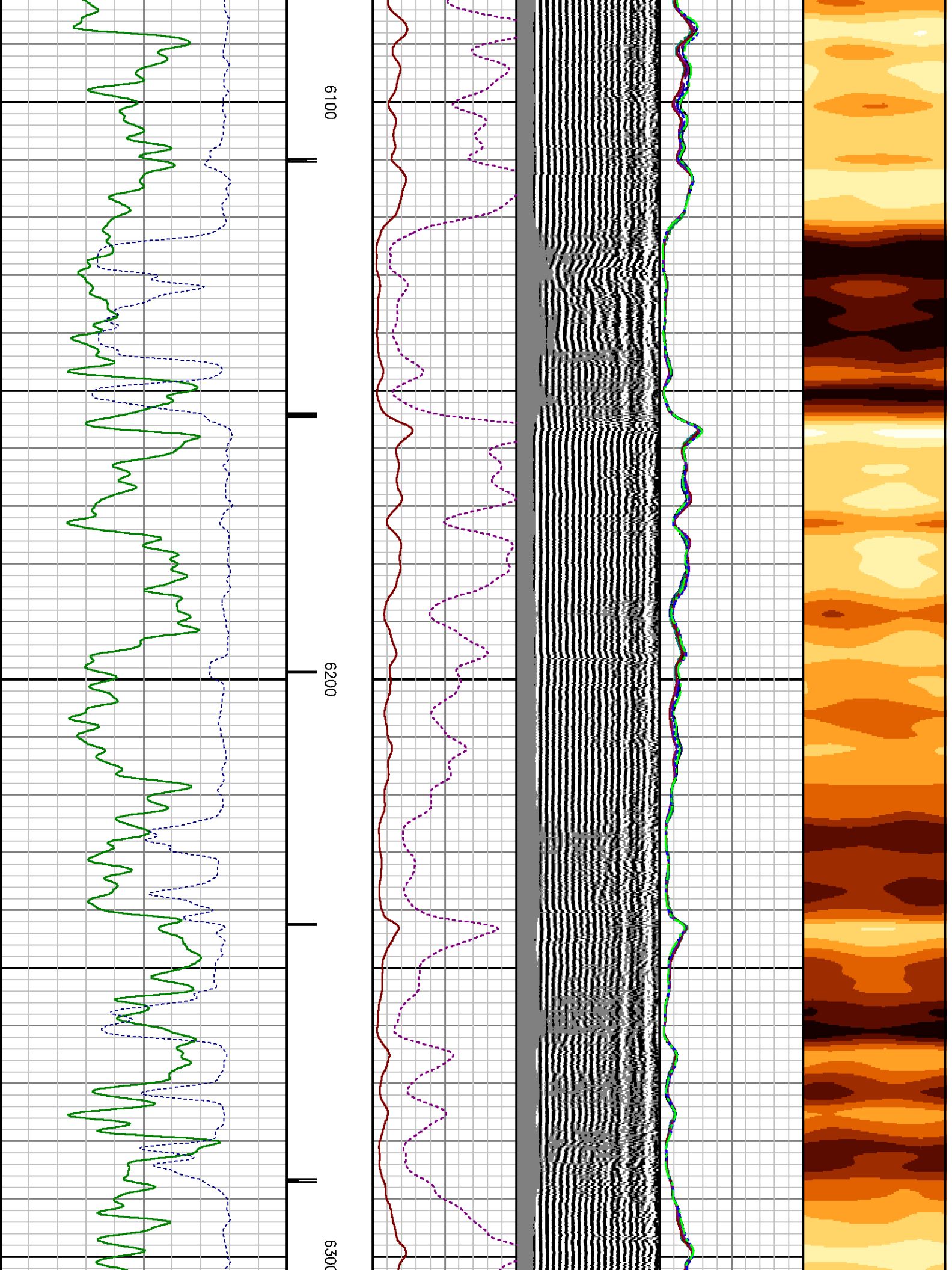


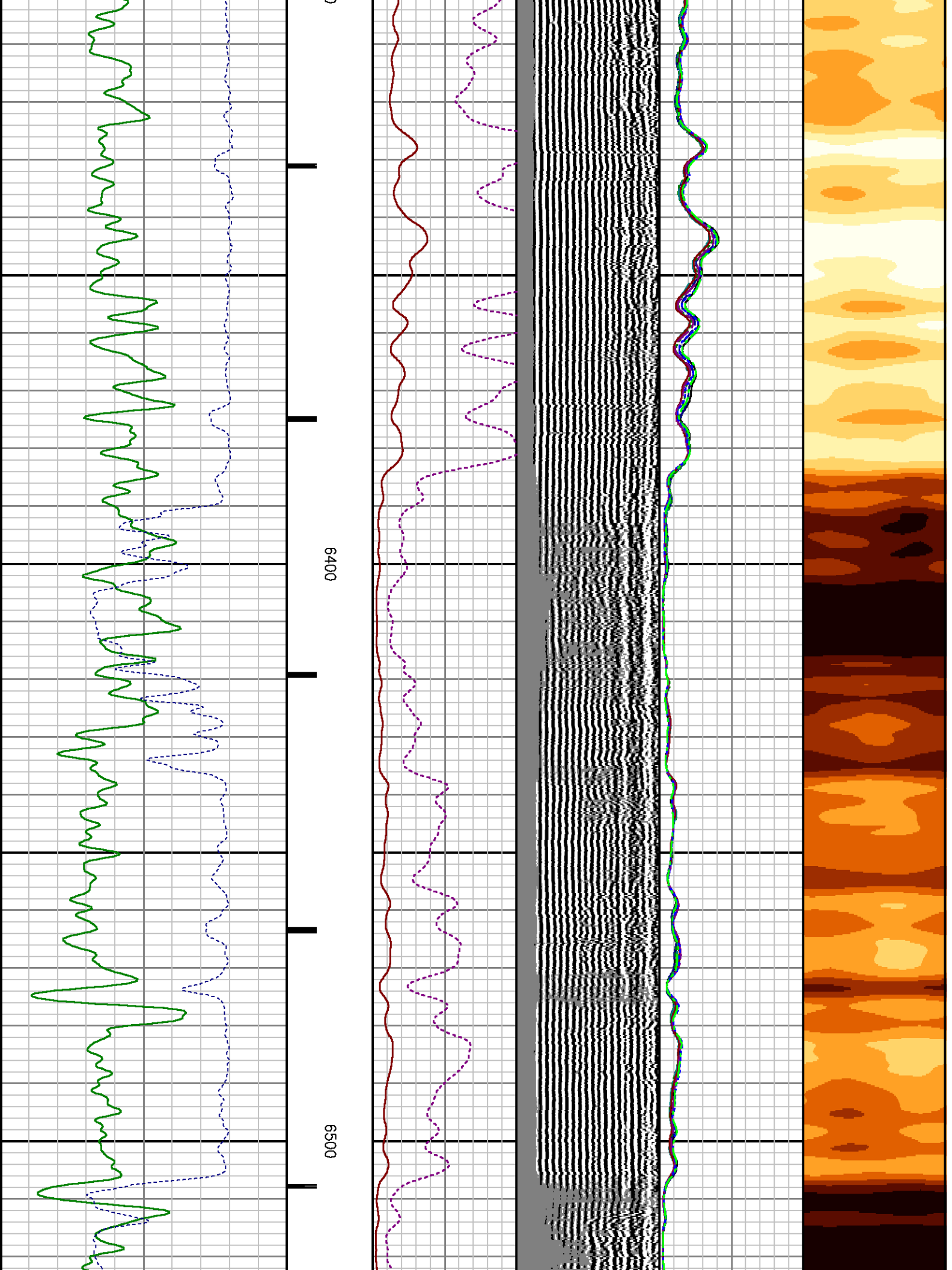


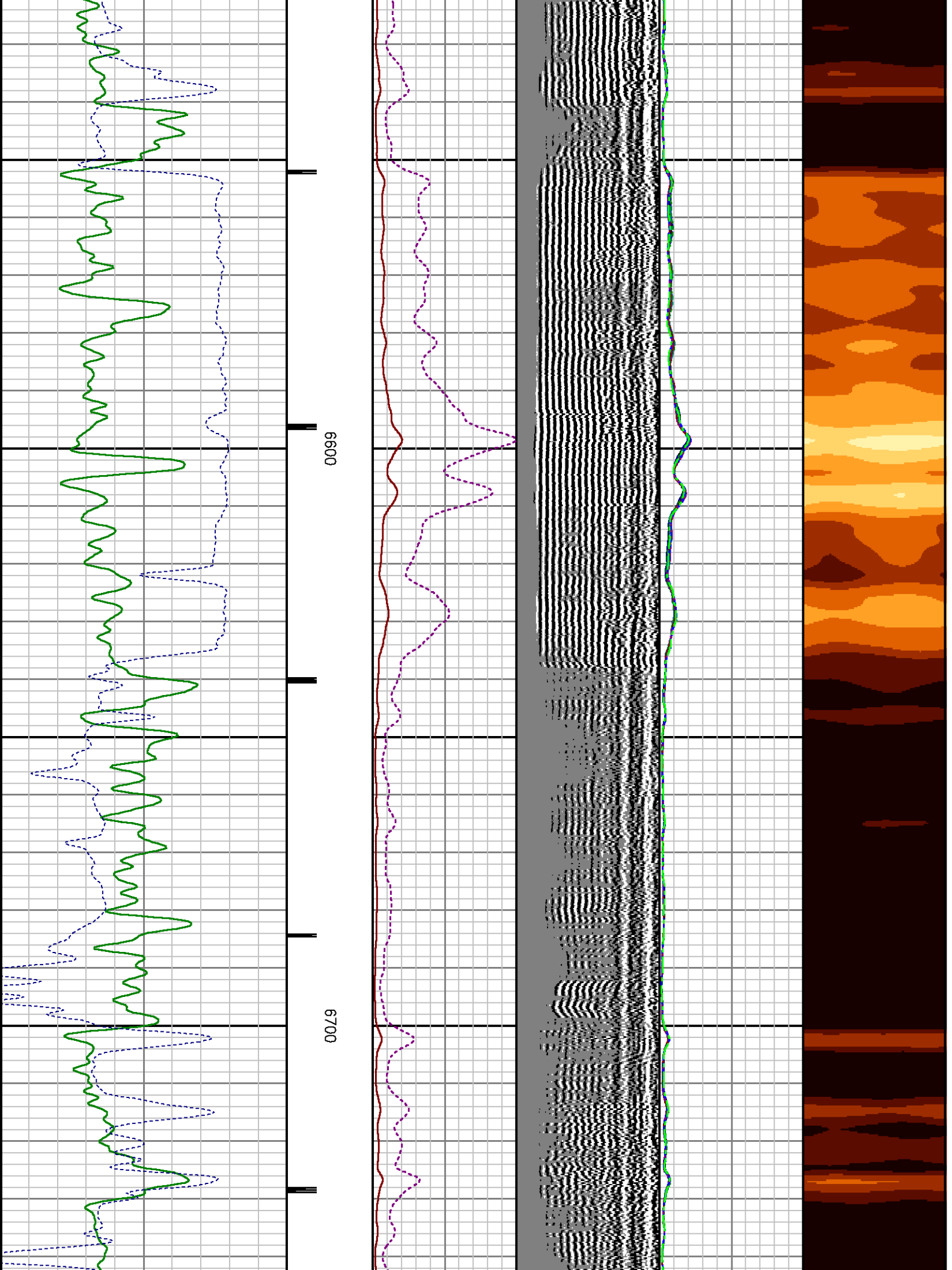


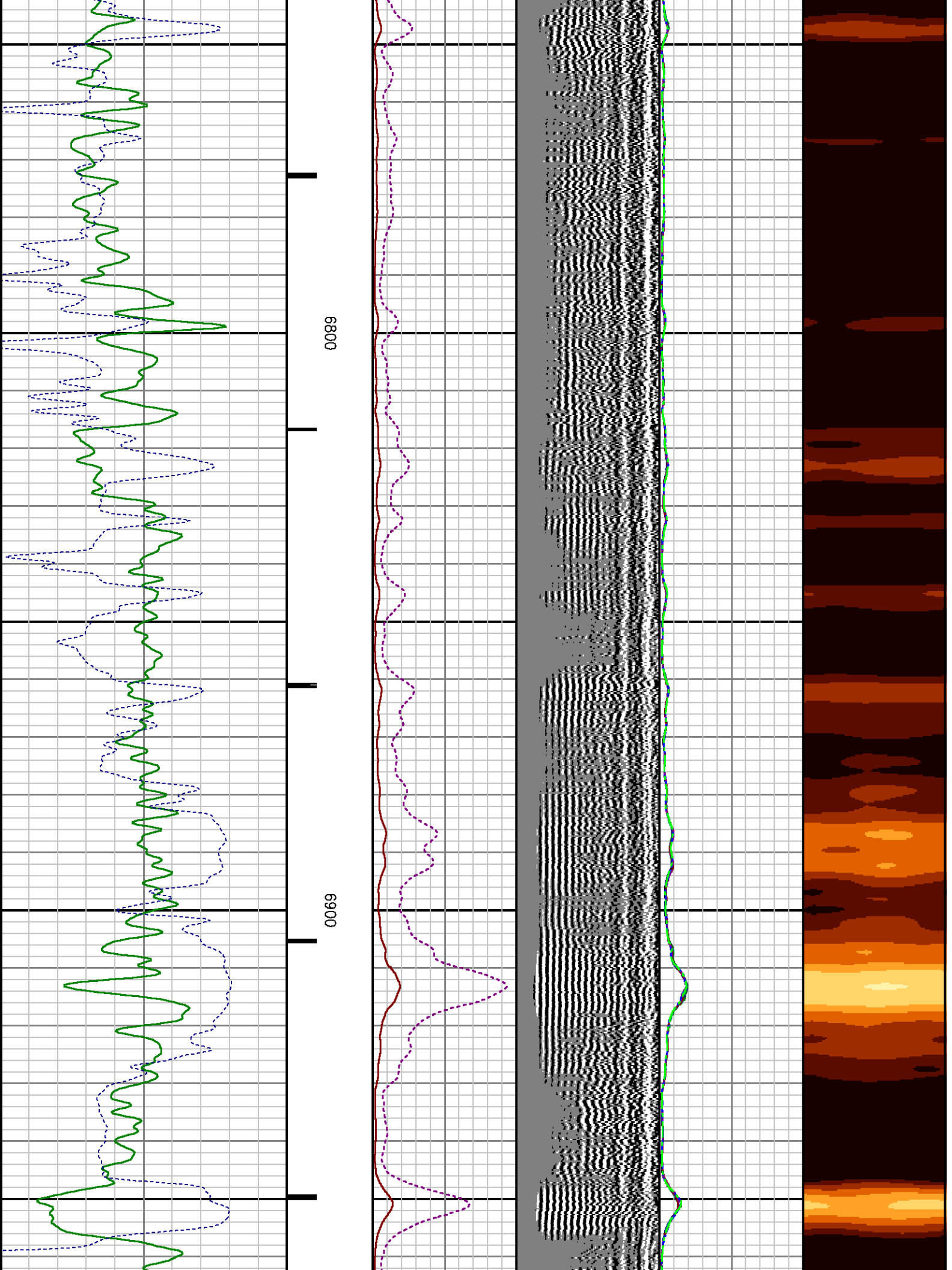


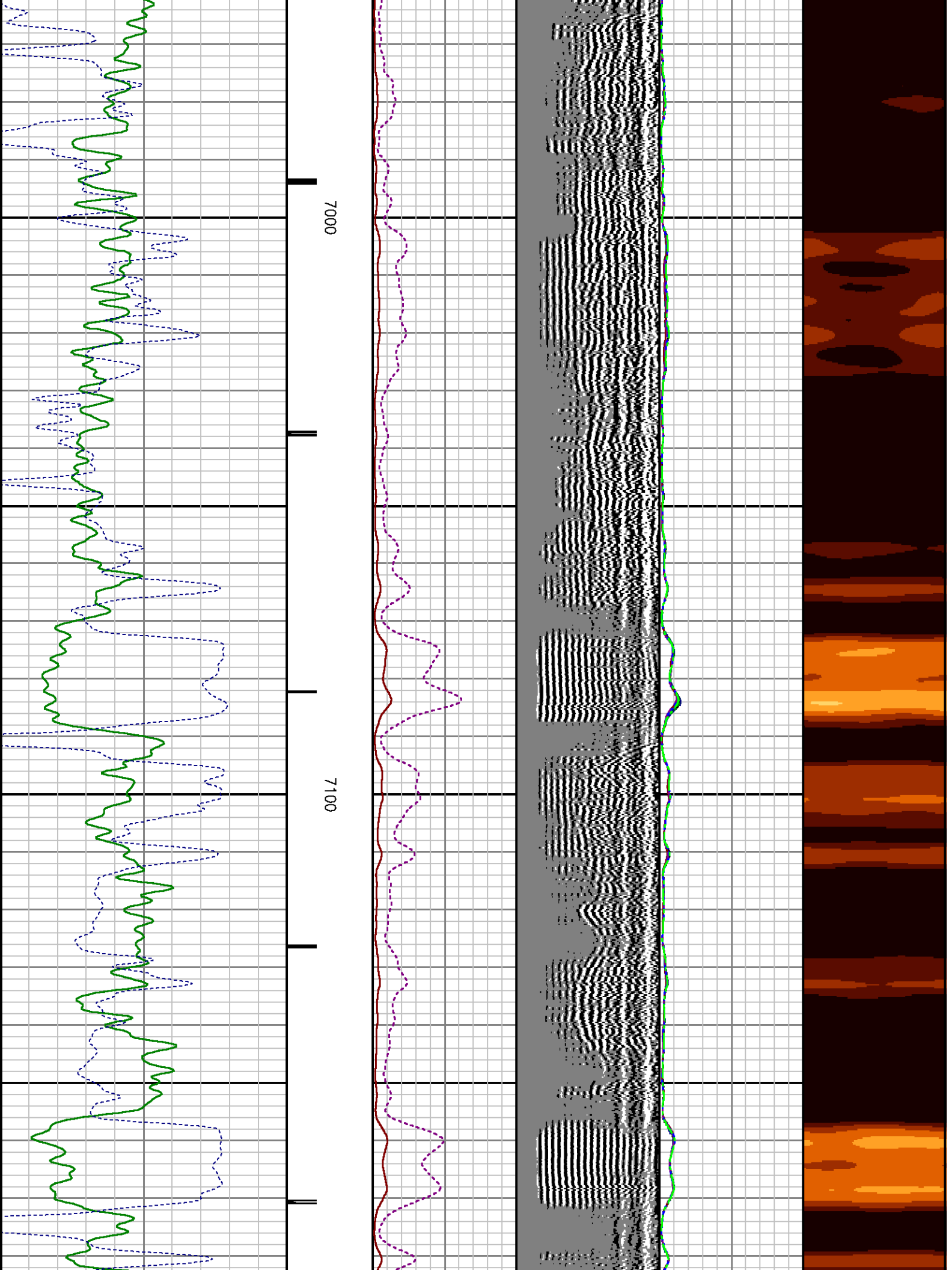


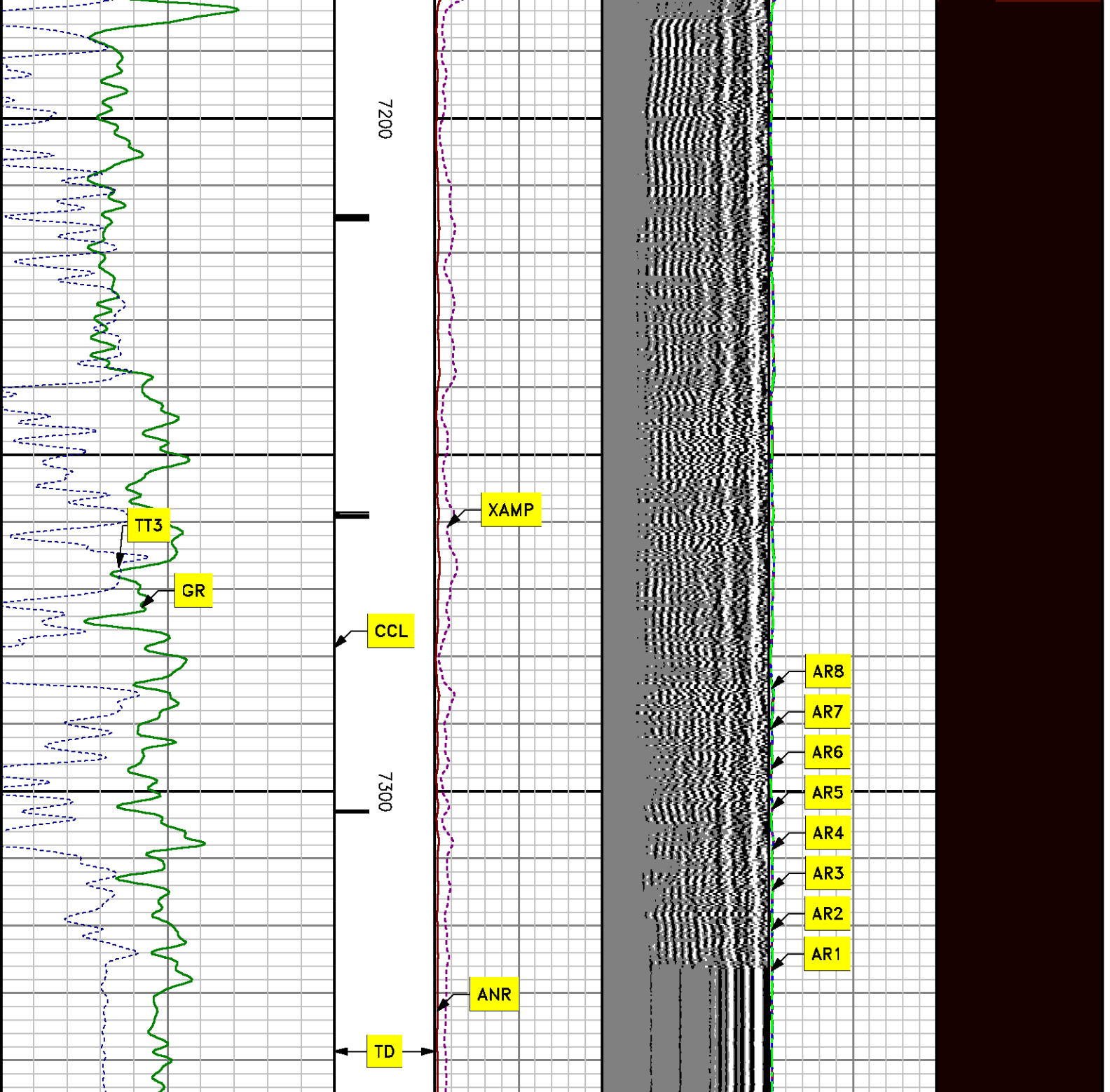












0	GR	150	CCL	MD feet 1:240	0	ANR	100	Variable Density	0	AR1	100	0	PBMAP	360
	gAPI		400			mv		200		AR2	100		80	
280	TT3	180	mv		0	XAMP	20	1200		AR3	100		20	
	u μs					mv		us		AR4	100			
										AR5	100			
										AR6	100			
										AR7	100			
										AR8	100			

REPEAT SECTION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	308.000	usec	7047.488	7367.520
RAL	Amp Gate Start Near	200.000	usec	7047.488	7367.520
RAL	Amp Gate Start Radial	200.000	usec	7047.488	7367.520
RAL	Amp Gate Width Far	25.000	usec	7047.488	7367.520
RAL	Amp Gate Width Near	25.000	usec	7047.488	7367.520
RAL	Amp Gate Width Radial	25.000	usec	7047.488	7367.520
RAL	casing od	4.500	inches	7047.488	7367.520
RAL	casing wt	11.600	lbm/ft	7047.488	7367.520
RAL	FB Start Far	291.900	usec	7047.488	7367.520
RAL	FB Start Near	175.391	usec	7047.488	7367.520
RAL	FB Start Radial	175.391	usec	7047.488	7367.520
RAL	FB Thresh Far	10.000	mv	7047.488	7367.520
RAL	FB Thresh Near	4.000	mv	7047.488	7367.520
RAL	FB Thresh Radial	4.000	mv	7047.488	7367.520
RAL	Fluid Travel Time	200.000	usec/ft	7047.488	7367.488

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES									
		ACAL	ANR	AR1	AR2	AR3	AR4	AR5	AR6		
1426XA	-16.750	AR7	AR8	CHV	FPR2	FPR3	FPR5	TT3	TTR1	TTR2	TTR3
		TTR4	TTR5	TTR6	TTR7	TTR8	XAMP				
		AFAR	SIG	TT5							
1426XA	-15.750										
2459XA	-11.340	CCL									
2459XA	-9.490	GR									
2459XA	-4.090	NEU									

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

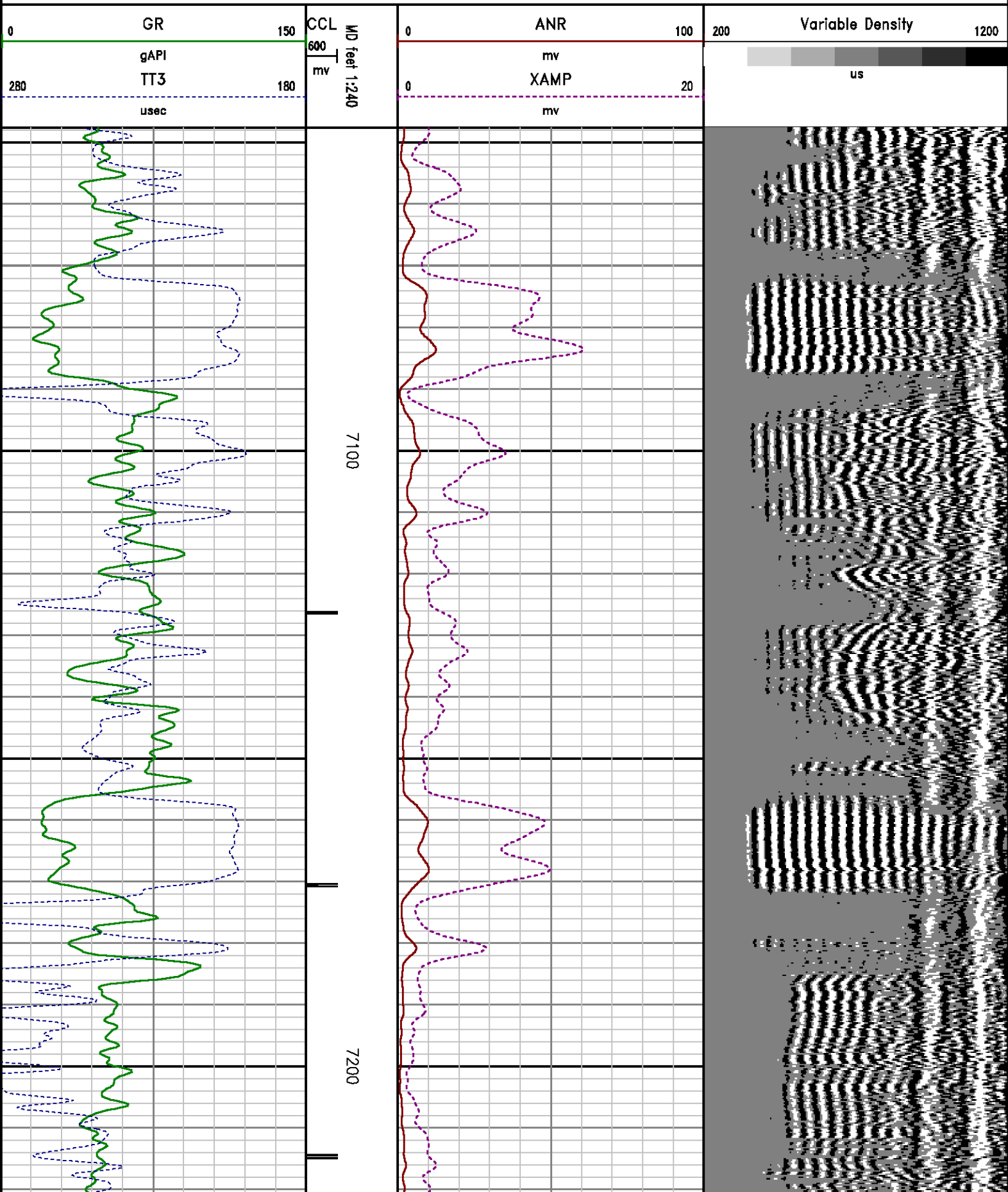
Well : JOLLEY KP 414-9

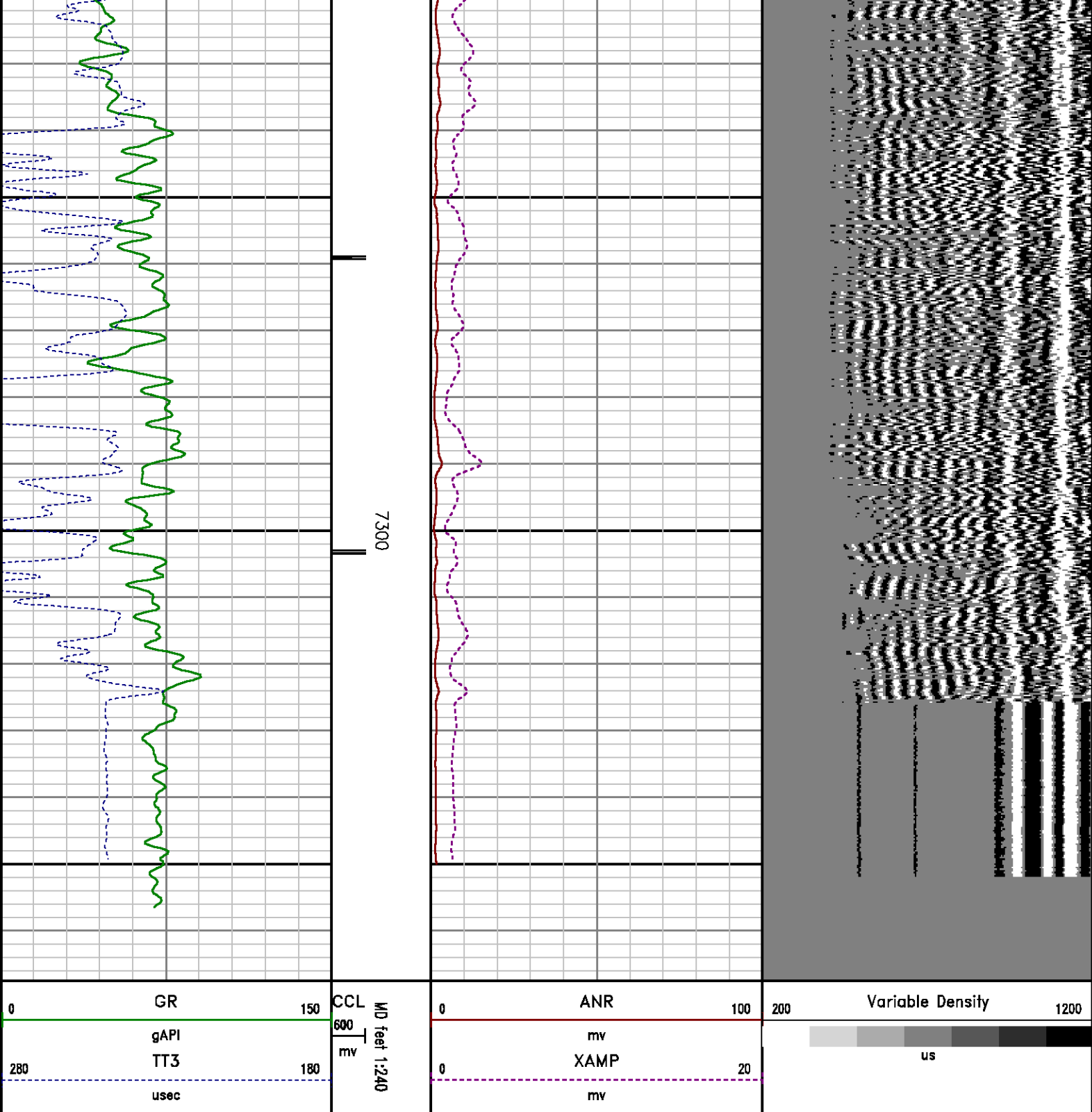
File Name : d:\welldata\wpx energy\jolley kp 414-9\cbl414\repeat.xtf

Mode : PlotMgr 5.4.504

Interval : 7047.52 - 7367.52 feet UP

Created : 9/7/2012 10:12:22 AM





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\544S6.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Sep 06 14:46:05 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: S6

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K W612	31.20	310.24	0.663	20.68	205.68	185.00

Verification File: C:\case\calver\GR\544S6.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Sep 06 14:47:35 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: S6

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K W612	30.09	314.67	0.663	19.95	208.62	188.67

RALSHP

Shop Calibration: C:\case\calver\RALSHP\106S_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Sep 07 09:41:50 2012 TOOL SERIES: 1426XA ASSET: 106 SEQ: S

Tool Delay [usec]	-56.00	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	221	216	30	166	25	0.110	100.00	0.09
3 Ft. Receiver	220	216	30	155	25	0.101	100.00	0.08
5 Ft. Receiver	329	325	30	235	25	0.471	150.00	0.09
Radial #1	219	216	30	136	25	0.276	100.00	0.08
Radial #2	219	216	30	136	25	0.308	100.00	0.08
Radial #3	220	216	30	136	25	0.198	100.00	0.08
Radial #4	220	216	30	136	25	0.178	100.00	0.09
Radial #5	219	216	30	136	25	-0.403	100.00	0.08
Radial #6	219	216	30	136	25	-0.611	100.00	0.08
Radial #7	219	216	30	136	25	-0.331	100.00	0.08
Radial #8	220	216	30	136	25	-0.141	100.00	0.08

RALFLD

Well site Calibration: C:\case\calver\RALFLD\106S fld.cal

WELLSITE CALIBRATION SUMMARY

Tool Delay [usec] Casing OD Casing Wt Casing ID
In lbm/ft In

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	<input type="text" value="166"/>	<input type="text" value="25"/>	<input type="text" value="0.013"/>	<input type="text" value="0.000"/>	<input type="text" value="1.00"/>	<input type="text" value="100.000"/>
3 Ft. Receiver	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.040"/>			
5 Ft. Receiver	<input type="text" value="317"/>	<input type="text" value="30"/>	<input type="text" value="-1.462"/>			
Radial #1	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.686"/>			
Radial #2	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.571"/>			
Radial #3	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.466"/>			
Radial #4	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.522"/>			
Radial #5	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.371"/>			
Radial #6	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.392"/>			
Radial #7	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-0.977"/>			
Radial #8	<input type="text" value="200"/>	<input type="text" value="30"/>	<input type="text" value="-1.246"/>			

TOOL DIAGRAM

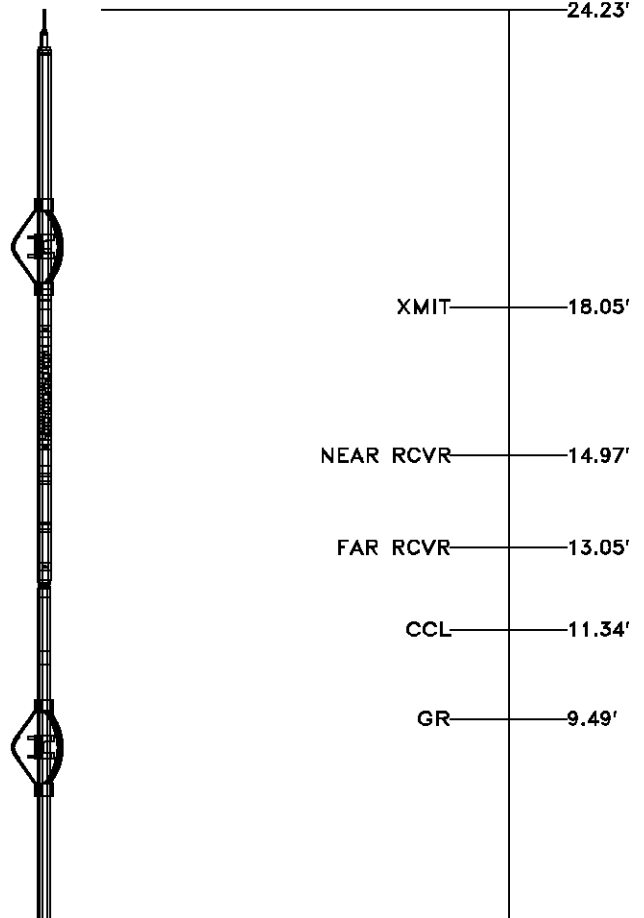
OTA SHORT CABLE HEAD

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



NEU 4.09'

0.00'



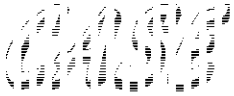
CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

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



Baker Atlas



Company	WPX ENERGY		
Well	JOLLEY KP 414-9		
Field	KOKOPELLI		
County	GARFIELD	State	COLORADO

File No:	CH060784
API No:	05045180710000

Location	
SHL: 587' FNL	697' FWL SECTION 16
BHL: 513' FSL	670' FWL SECTION 9
SEC 9	TWP 6S RGE 91W

Elevations	
KB	6658 ft
DF	NA
GL	6632 ft

9 6S 91W
KP 11-16 pad
NABORS 574