



# RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH071536	Company Well Field County	WPX ENERGY GOLDSBOROUGH PA 311-11 PARACHUTE GARFIELD	State COLORADO
API No: 05045218210000			
11 7S 9SW PA 22-11 CYCLONE 17	Location SHL: 2402' FNL & 2030' FNL SEC:11 BHL: 487' FNL & 568' FNL SEC:11 SEC 11 TWP 7S RGE 9SW	Other Services RPM	
Permanent Datum Log Measured From Drill Measured From	G.L. _____ Elevation 6274 ft K.B. _____ 26 ft Above P. D. KELLY BUSHING	Elevations KB 5300 ft DF GL 6274 ft	

Date	26/APR/15	
Run	ONE	
Service Order	575114	
Depth Driller	8291 ft	
Depth Logger	8271 ft	
Bottom Logged Interval	8261 ft	
Top Logged Interval	26 ft	
Time Started	12:30	
Time Finished	15:30	
Operator Rig Time	3 HRS	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	75 ft	
Logged Cement Top	N/A	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	45 fpm	
Maximum Recorded Temperature	228 degF	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	4271	GRAND JUNCTION
Recorded By	U. KINSEL	9721
Witnessed By	MR. DUSTIN WELSH	GRAND JUNCTION

- 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	1134 ft
8.75 in	0 ft	8378 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 in	N/A	N/A	0 ft	1078 ft
4.5 in	11.6 lbm/ft	1-80	0 ft	8291 ft

Remarks
ALL DATA IN THIS LOG WAS DEPTH SHIFTED TO MATCH THE TOP CCL MARK WITH KB LEVEL
AT THE CLIENT'S REQUEST. THE AMOUNT OF LINEAR SHIFT WAS 5 FEET DOWN.
SHORT JOINT: 4935' - 4956'
BHT: 228 degF
LOG DONE WITH 0 PSI ON WELLHEAD

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10124106	CENTRALIZED
1	1	GAMMA RAY/CCL	1355XA	10580209	CENTRALIZED

# *MAIN LOG PRIMARY PRESENTATION*

## *0 PSI*

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	307.440	usec	34.343	8285.000
RAL	Amp Gate Start Near	197.374	usec	34.343	8285.000
RAL	Amp Gate Start Radial	198.578	usec	34.343	8285.000
RAL	Amp Gate Width Far	25.000	usec	34.343	8285.000
RAL	Amp Gate Width Near	25.000	usec	34.343	8285.000
RAL	Amp Gate Width Radial	25.000	usec	34.343	8285.000
RAL	casing od	4.500	inches	34.343	8285.000
RAL	casing wt	11.600	lbm/ft	34.343	8285.000
RAL	FB Start Far	291.900	usec	34.343	8285.000
RAL	FB Start Near	175.391	usec	34.343	8285.000
RAL	FB Start Radial	175.391	usec	34.343	8285.000
RAL	FB Thresh Far	10.000	mv	34.343	8285.000
RAL	FB Thresh Near	4.000	mv	34.343	8285.000
RAL	FB Thresh Radial	4.000	mv	34.343	8285.000
RAL	Fluid Travel Time	200.000	usec/ft	34.343	8284.624

DEPTH OFFSETS							
(for Acquired Curves)							
SERIES	DEPTH OFFSET	ACQUIRED CURVES					
1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

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1426XA	-11.000	ACAL	ANR	AR1	AR2	AR3	AR4
		AR5	AR6	AR7	AR8	CHV	FPR2

1426XA -10.040  
 1355XA -5.620  
 1355XA -1.500  
 1355XA 0.000

FPR3 FPR5 TT3 TTR1 TTR2 TTR3  
 TTR4 TTR5 TTR6 TTR7 TTR8 XAMP  
 AFAR SIG TT5  
 CCL  
 GR  
 TEMP

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

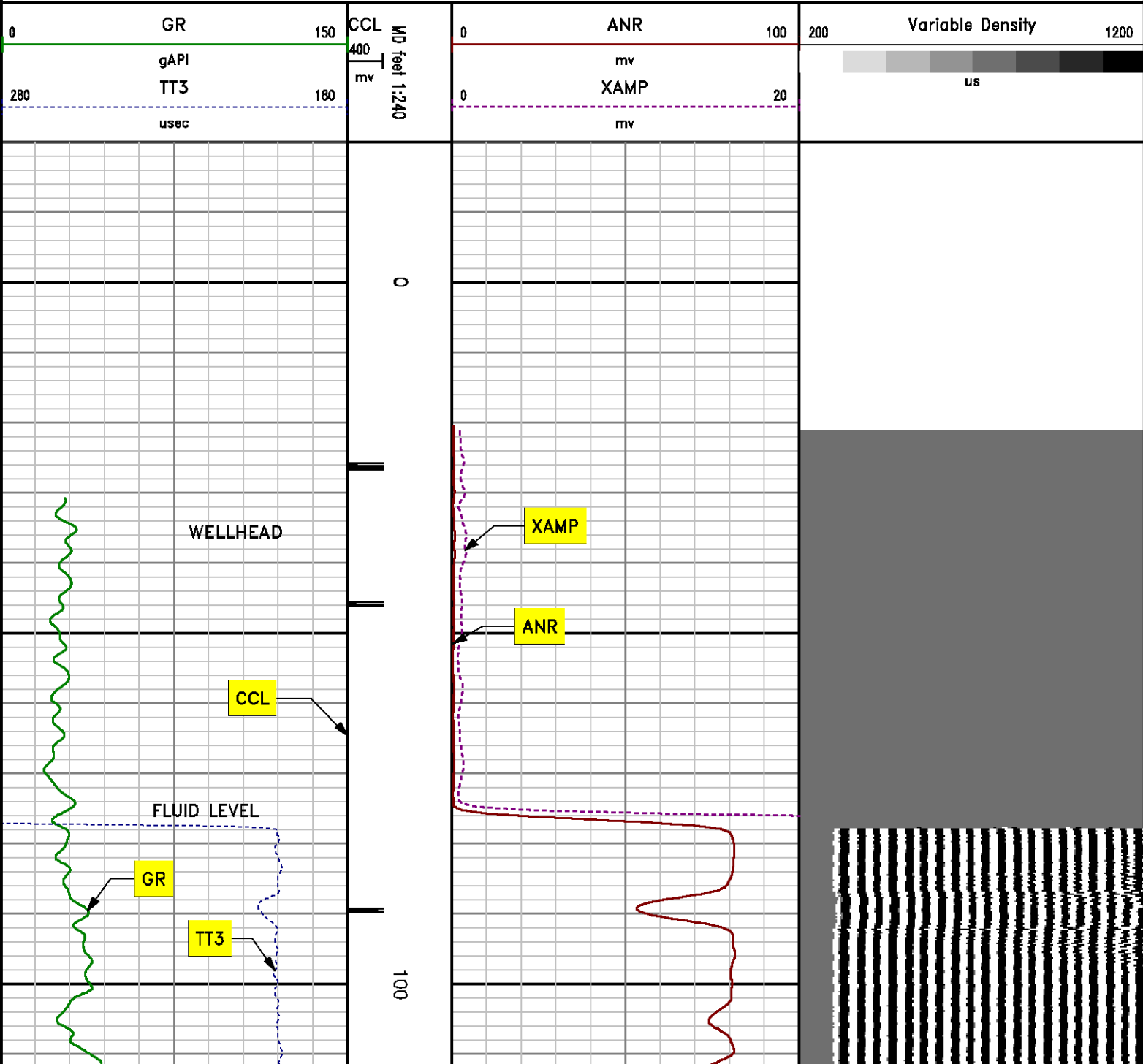
Well : GOLDSBOROUGH PA 311-11

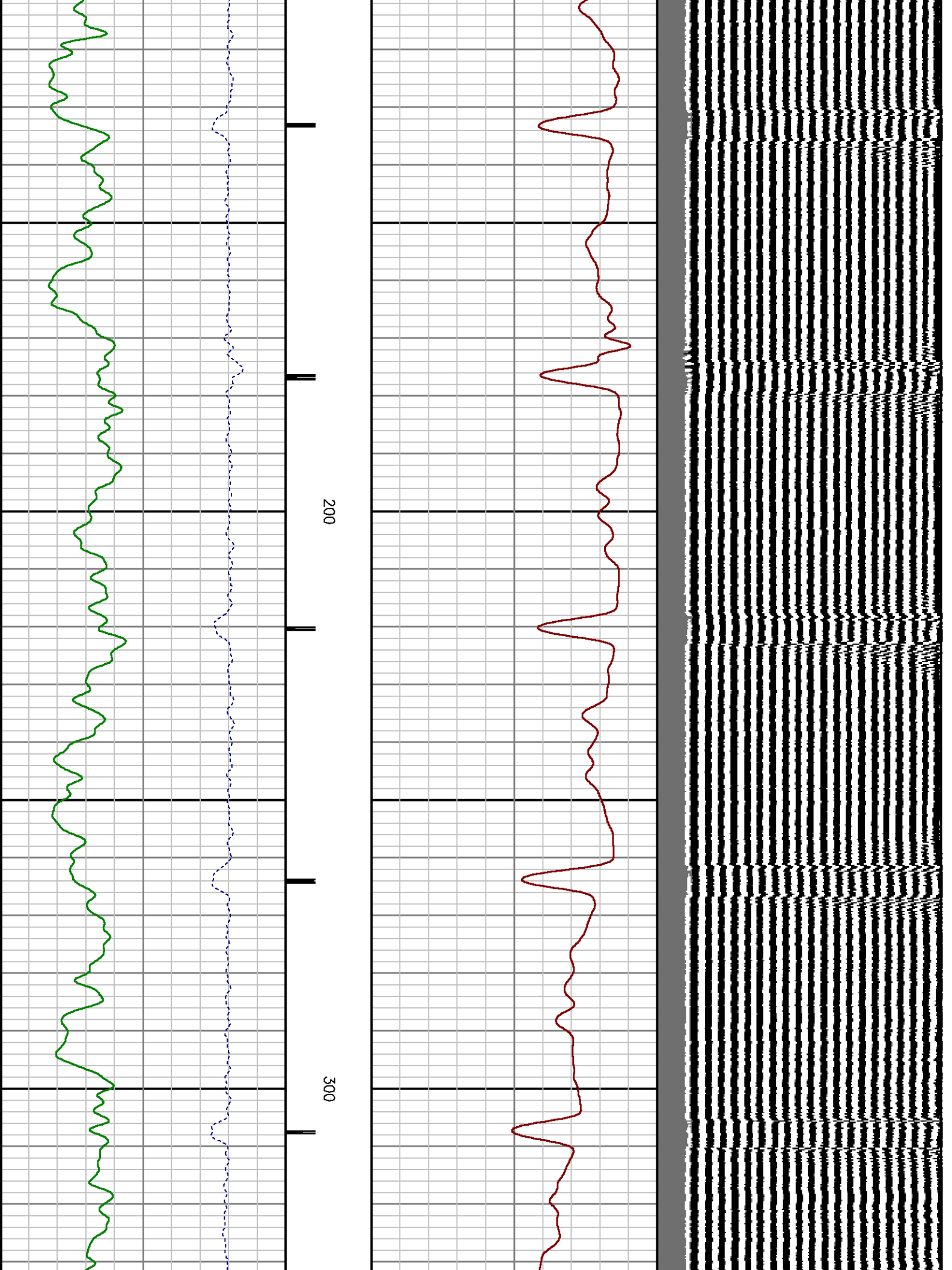
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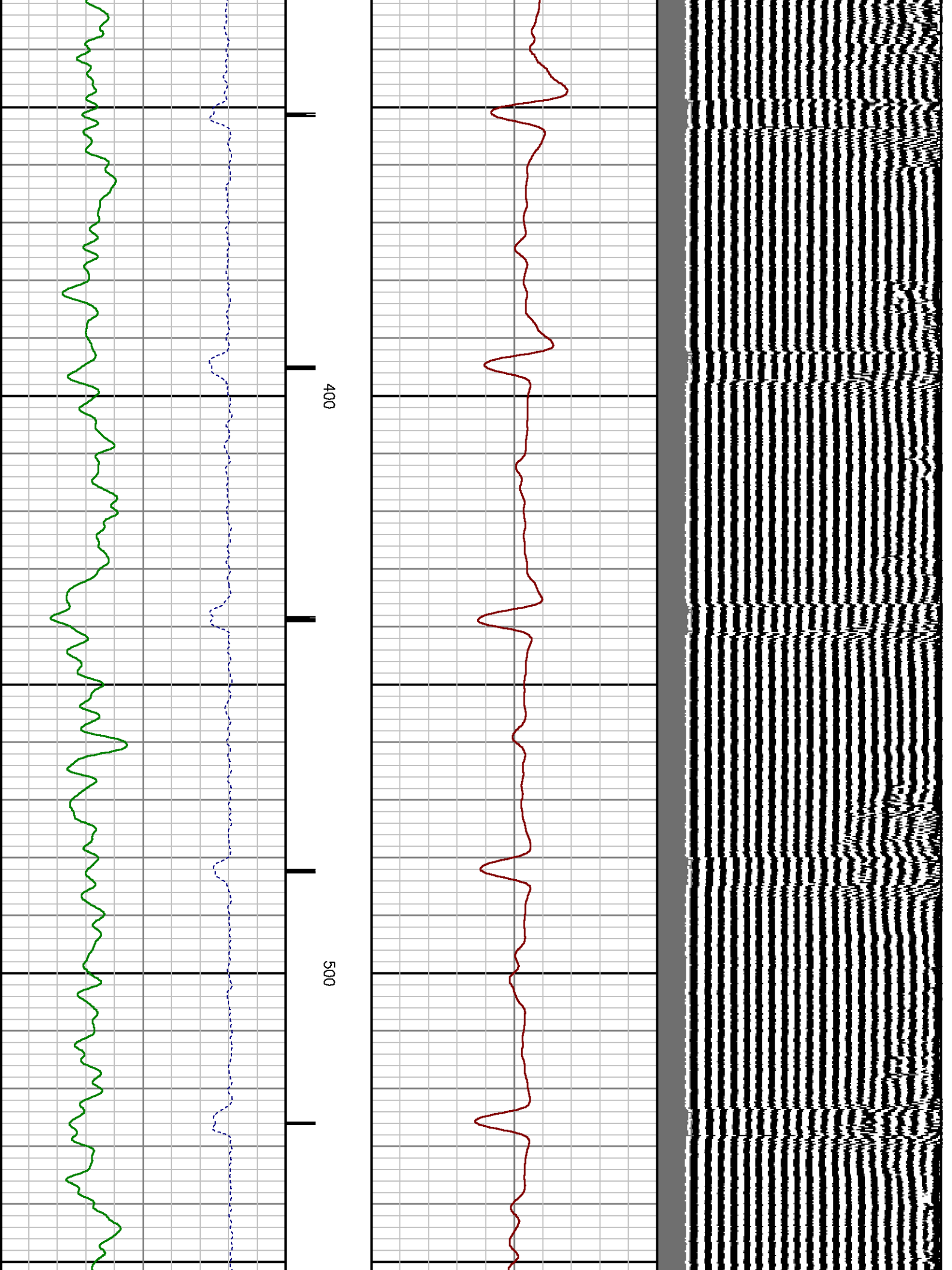
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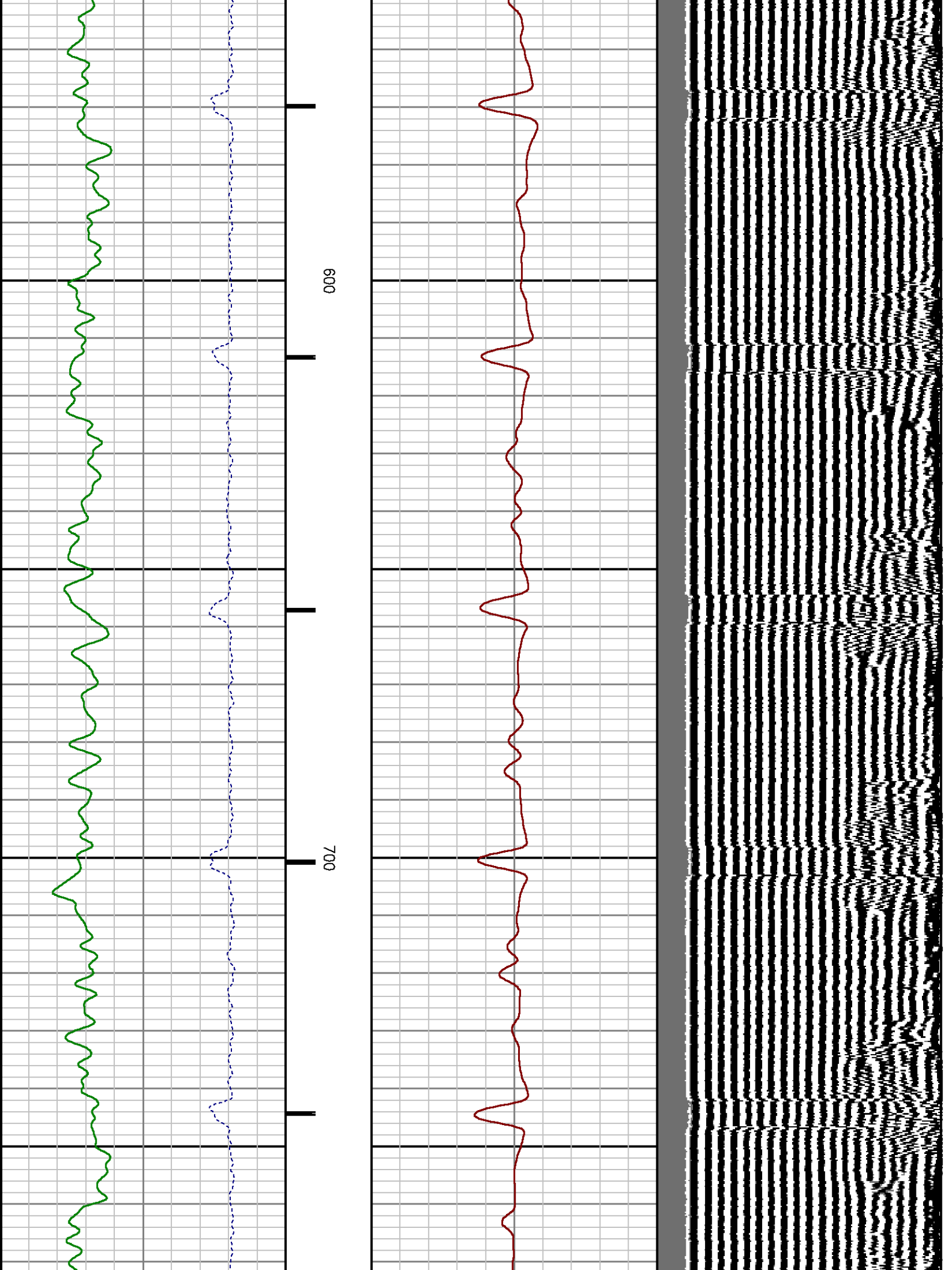
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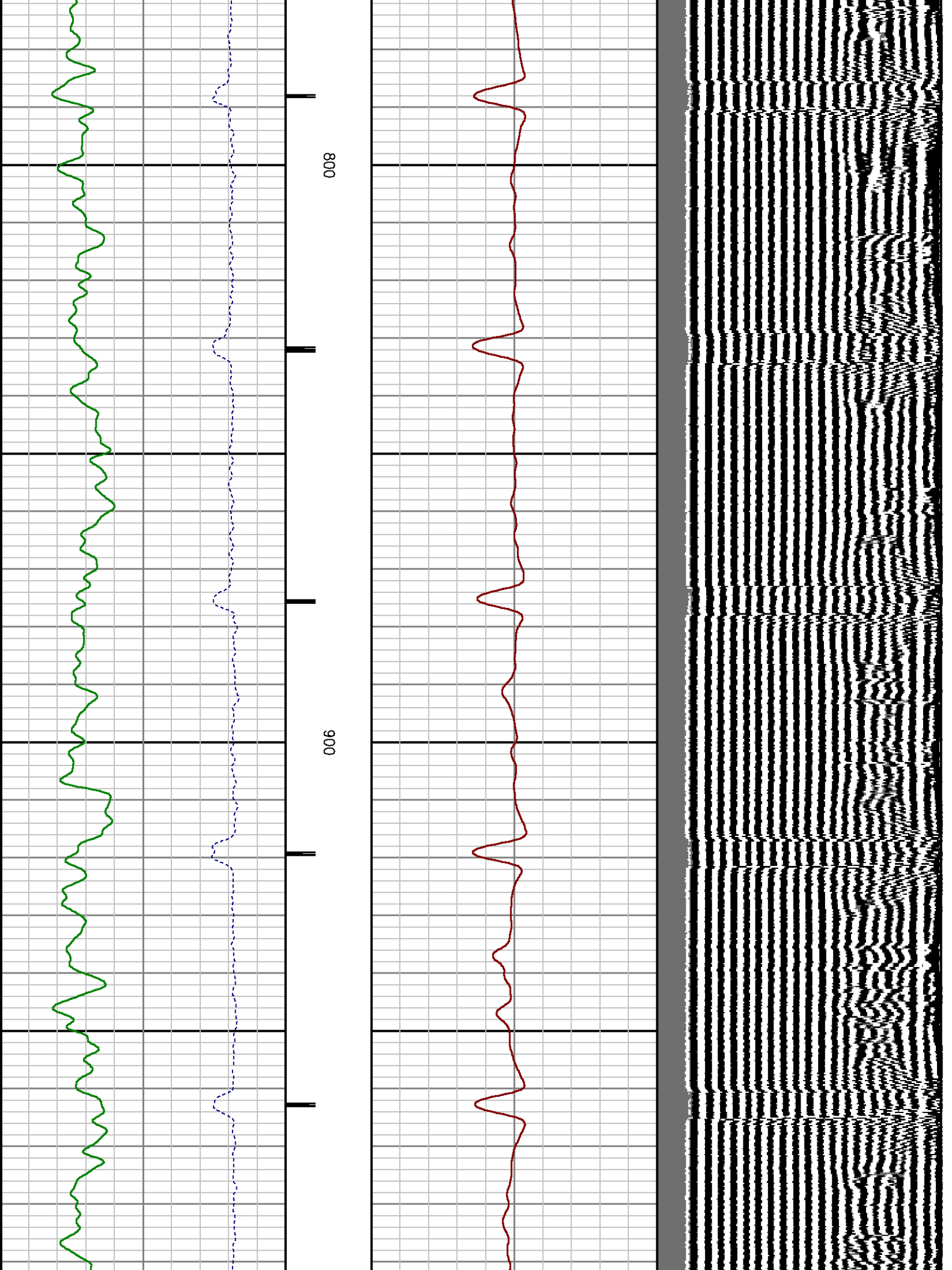
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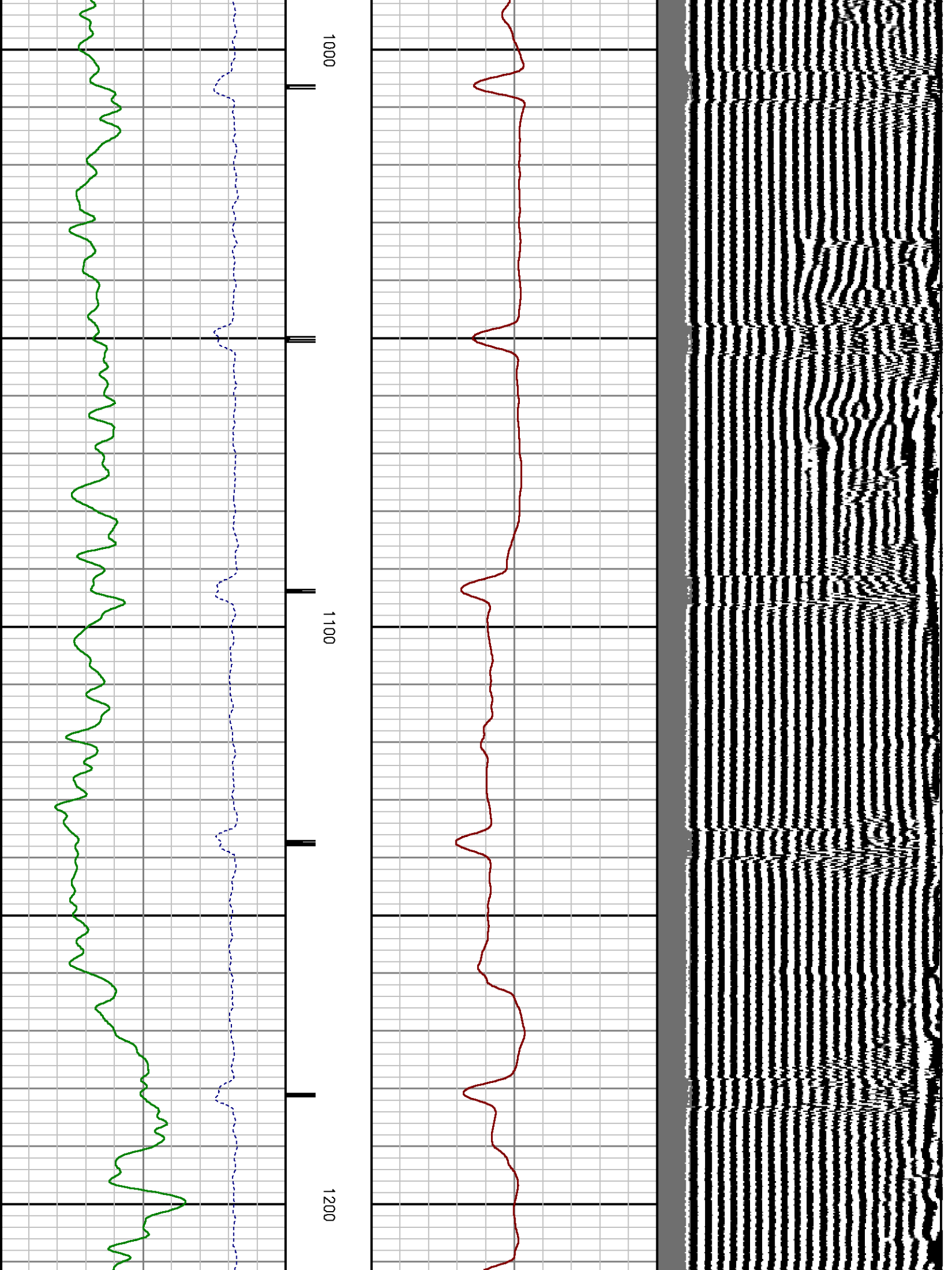




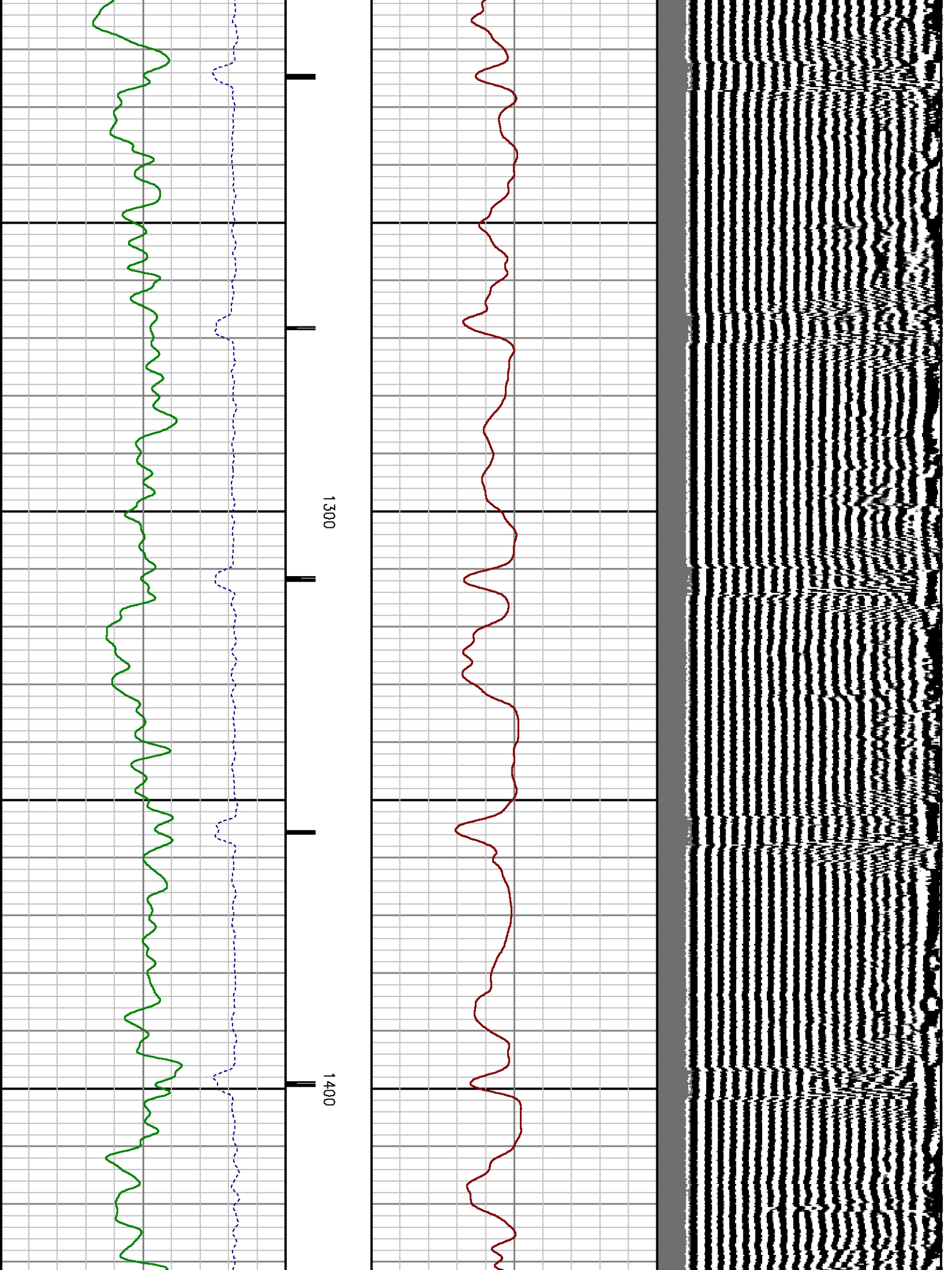


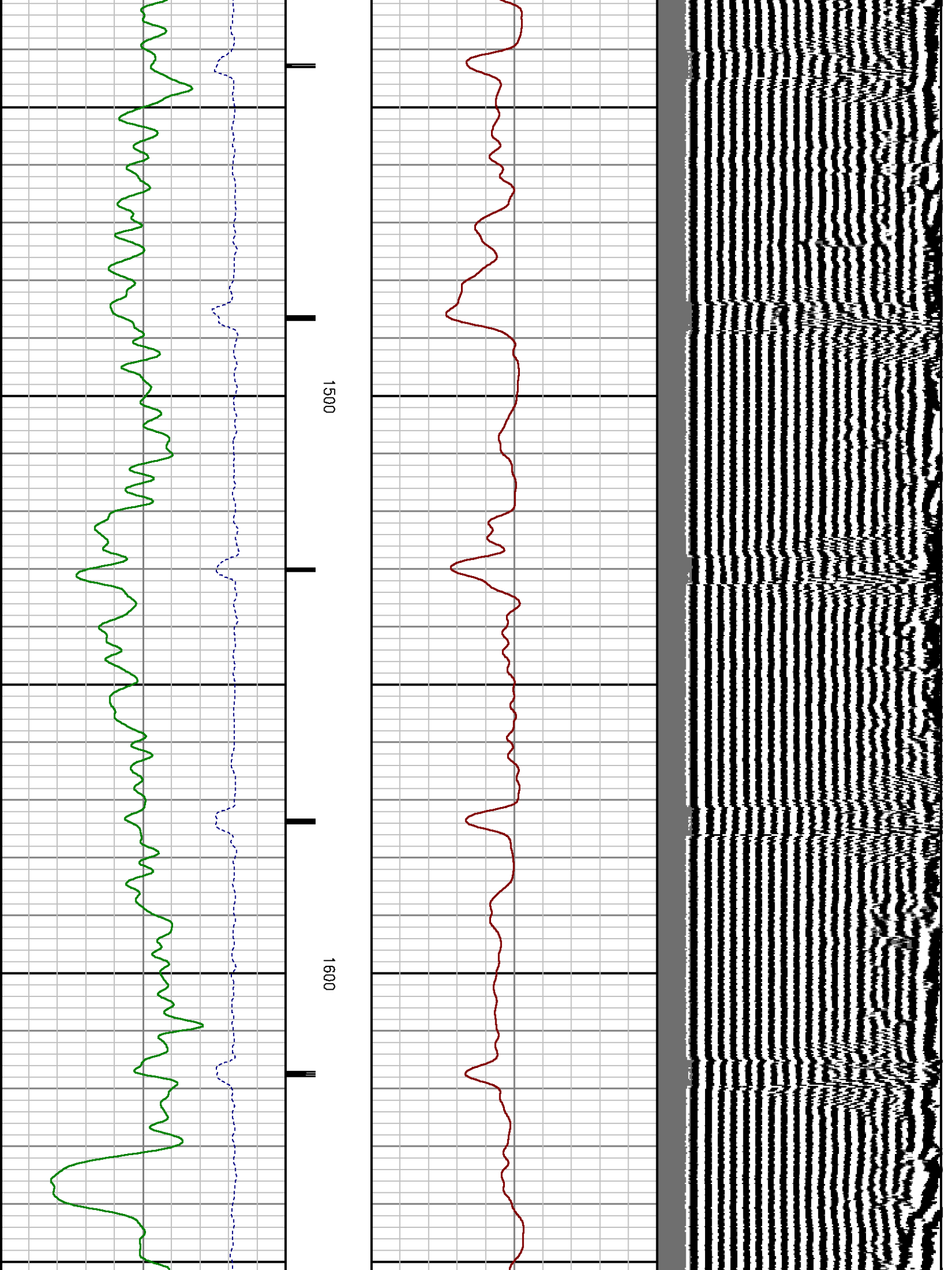


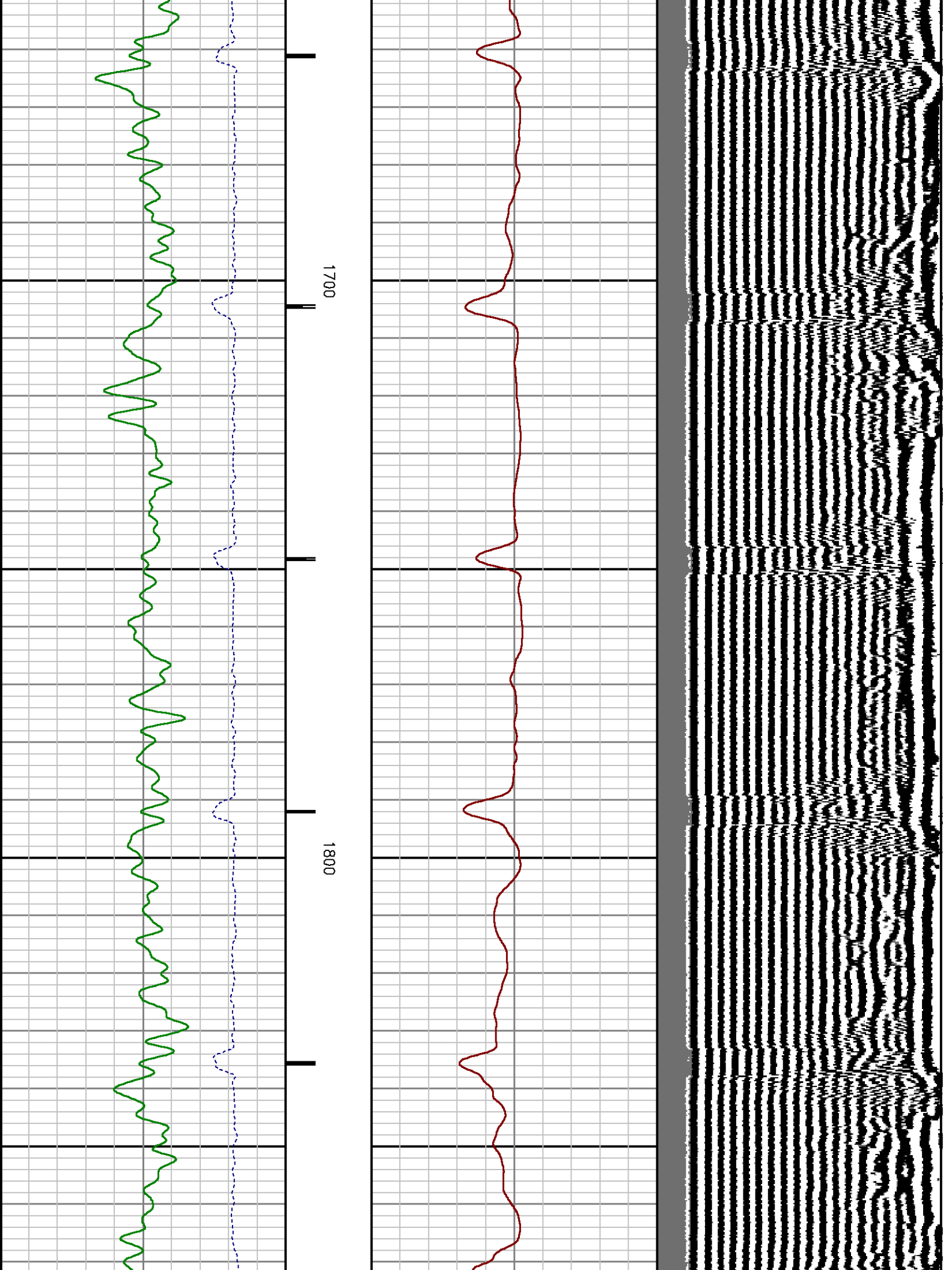


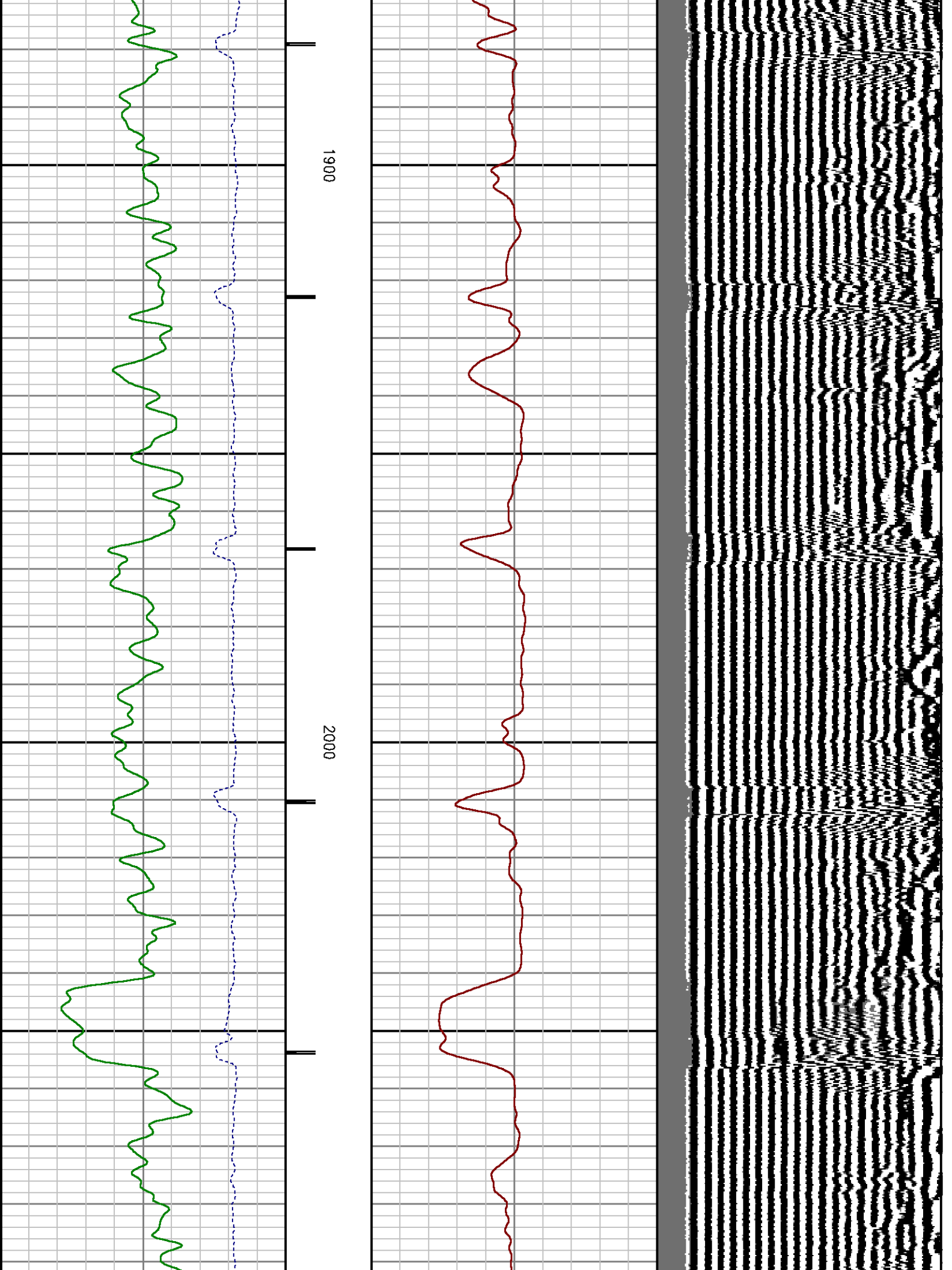


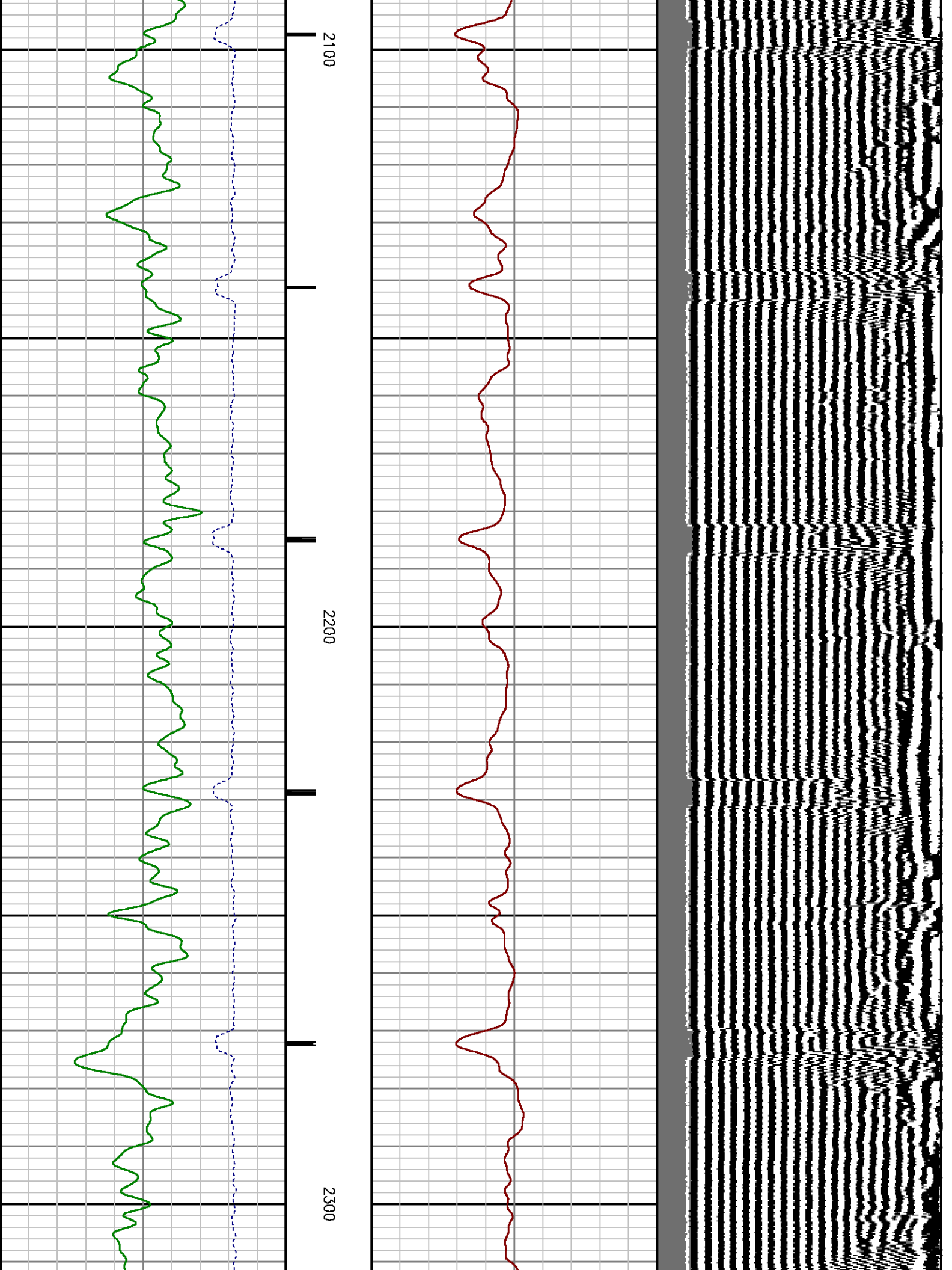


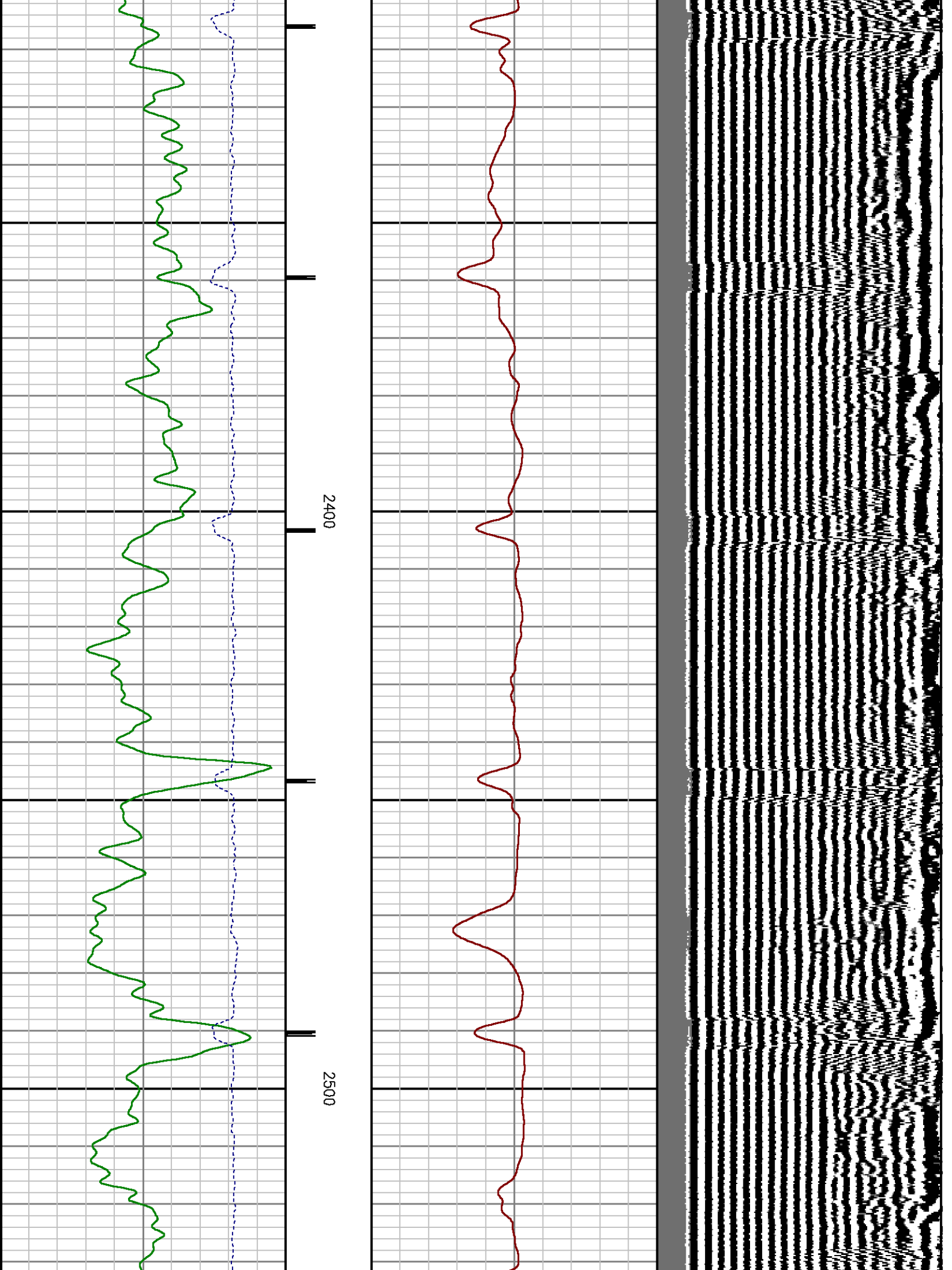




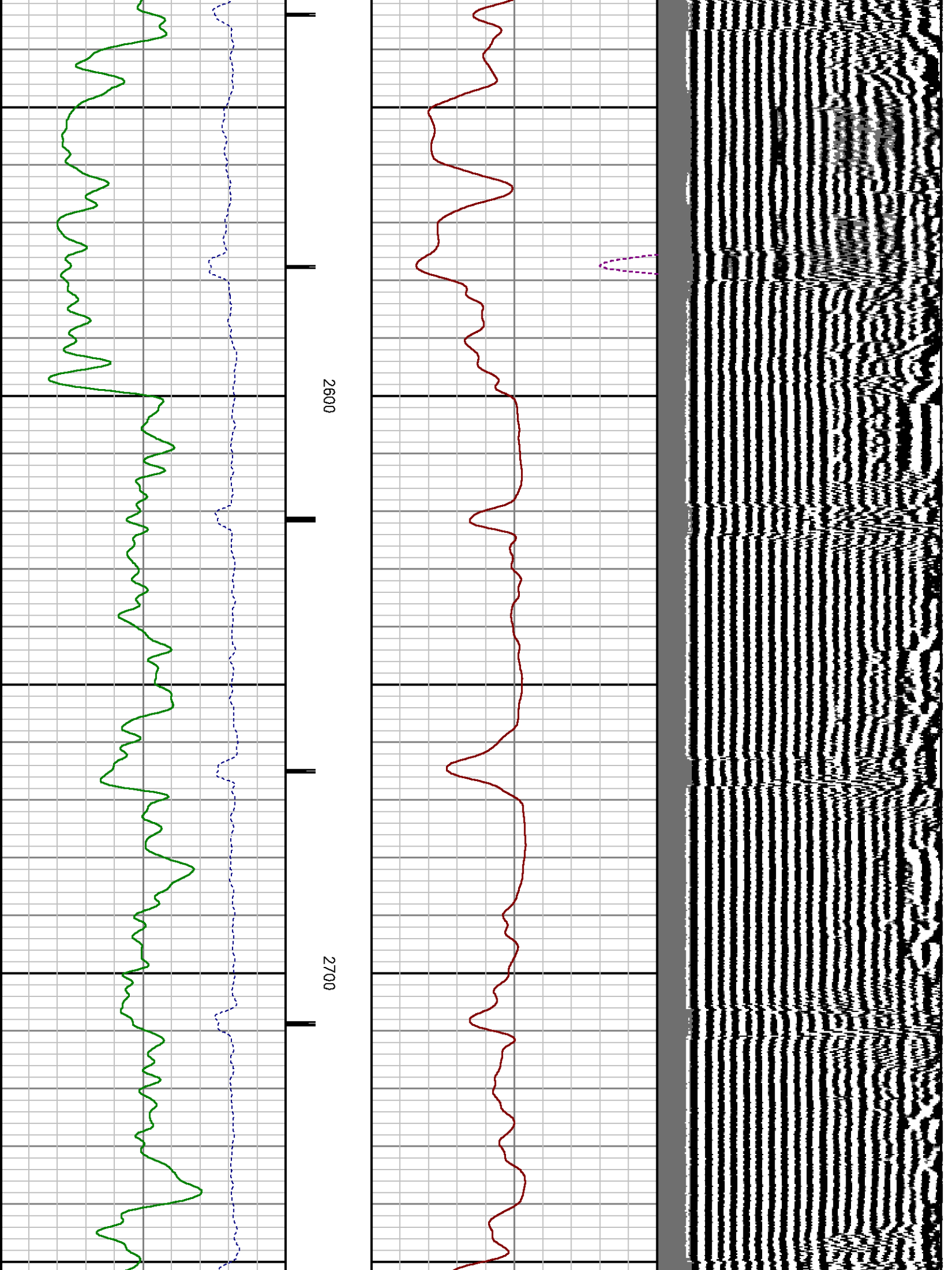


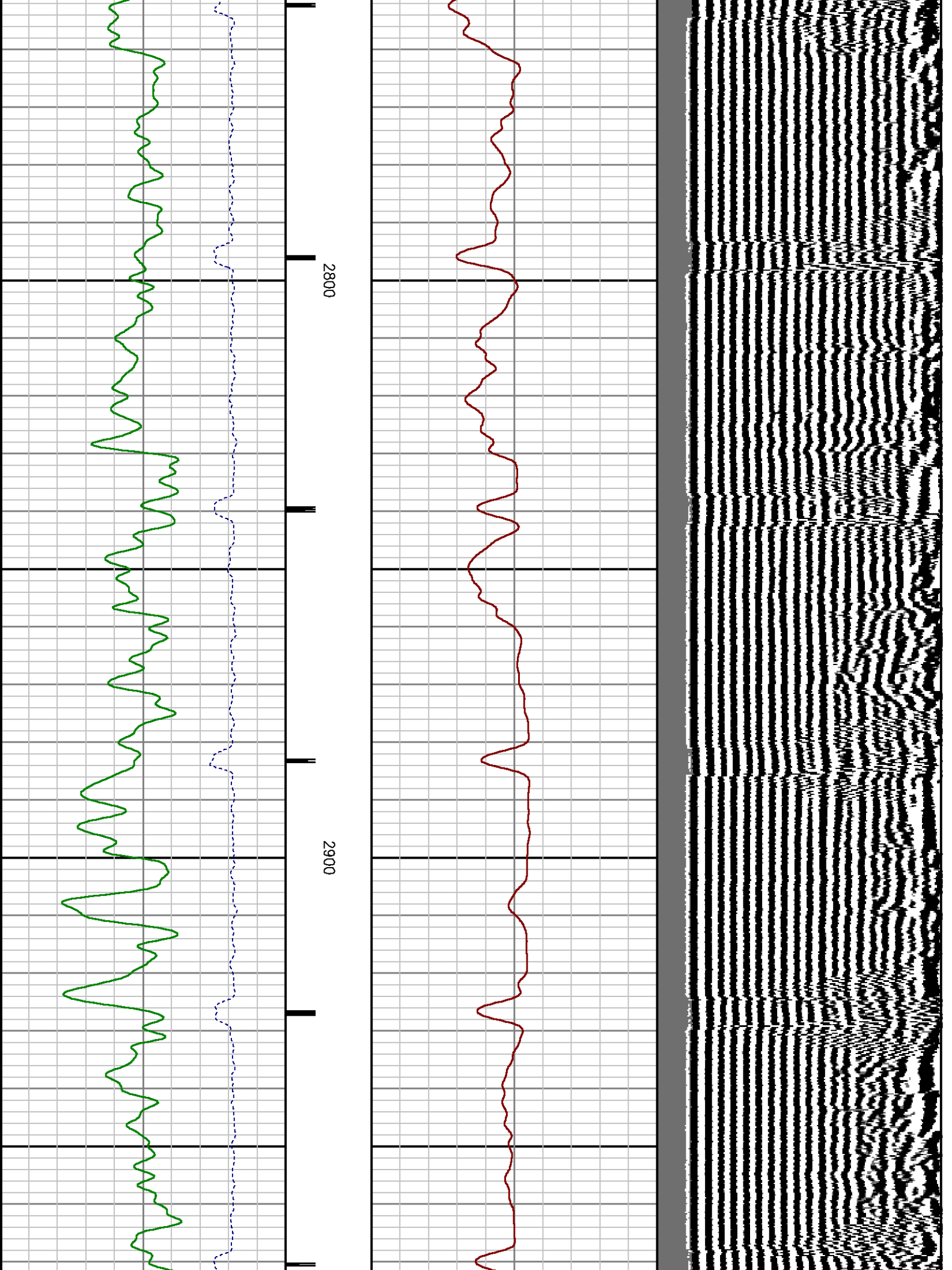




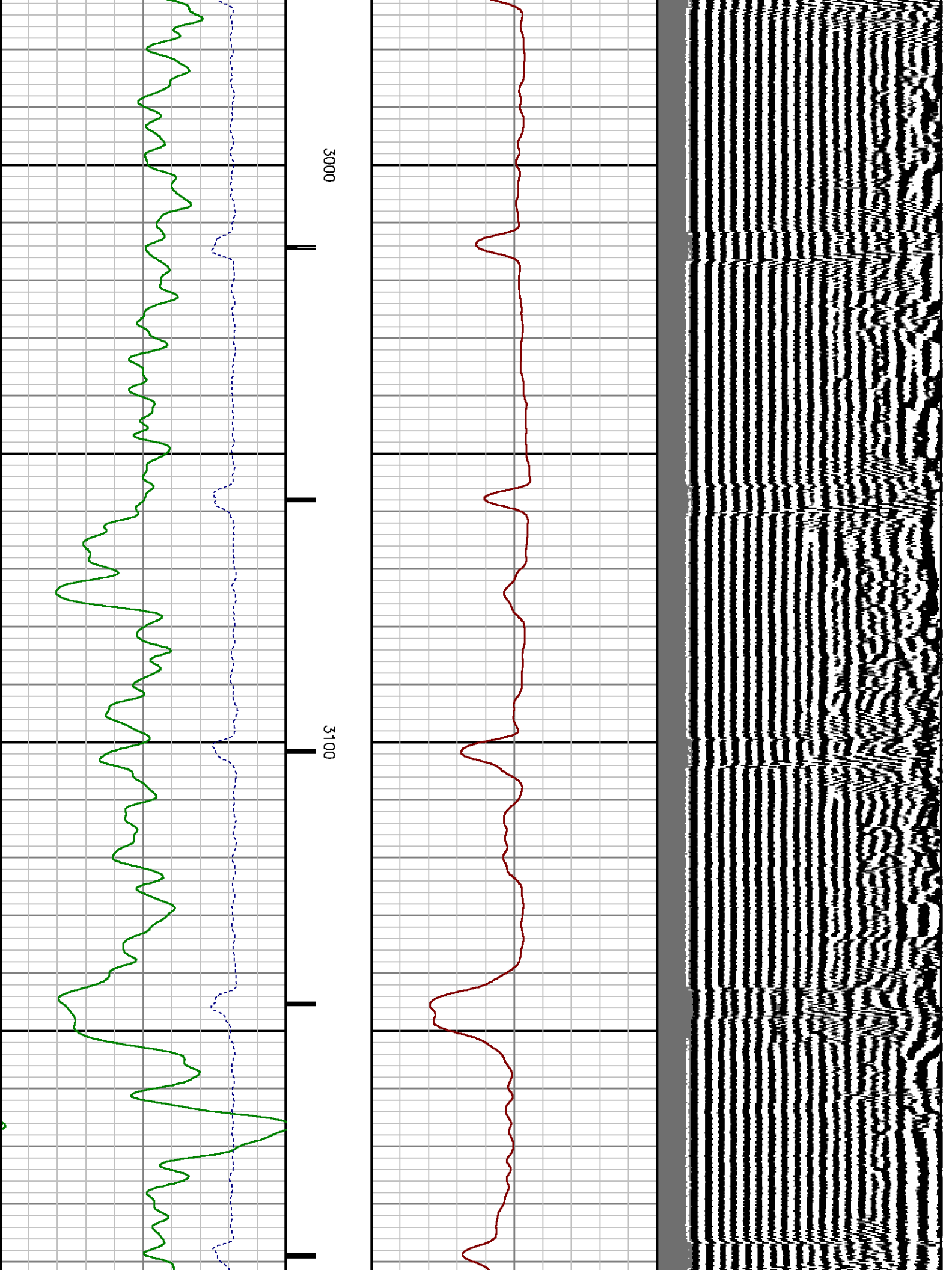


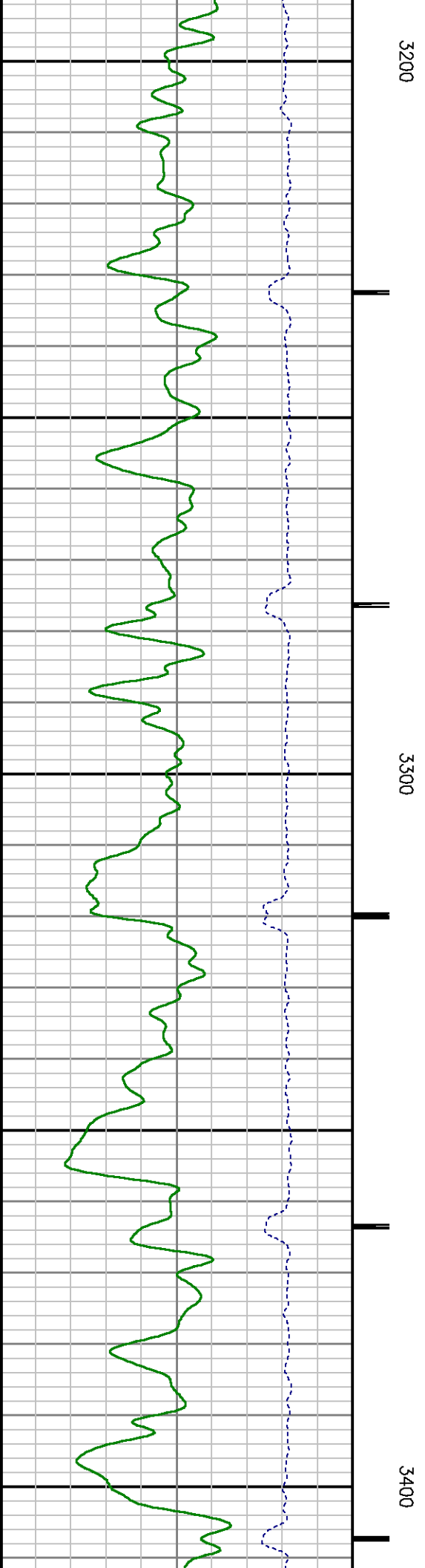
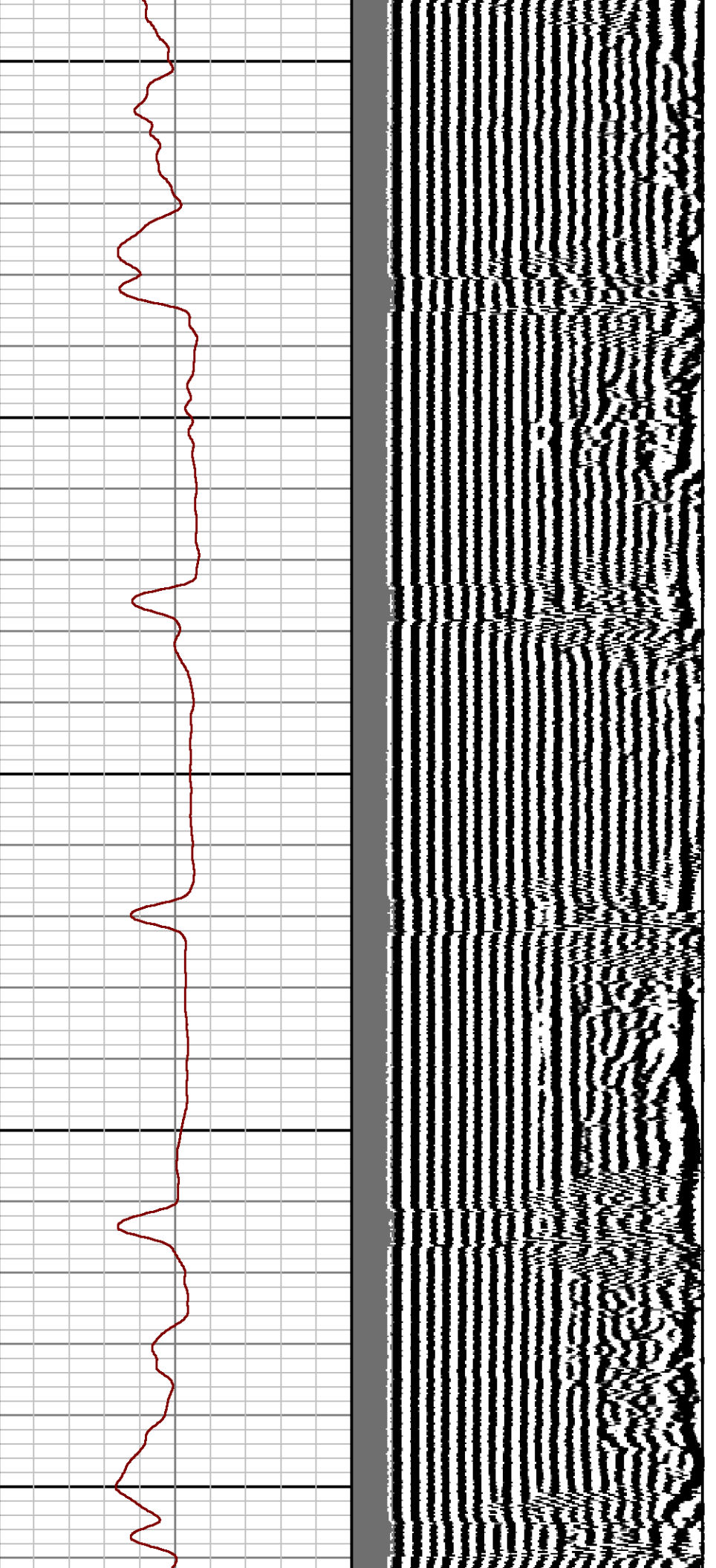


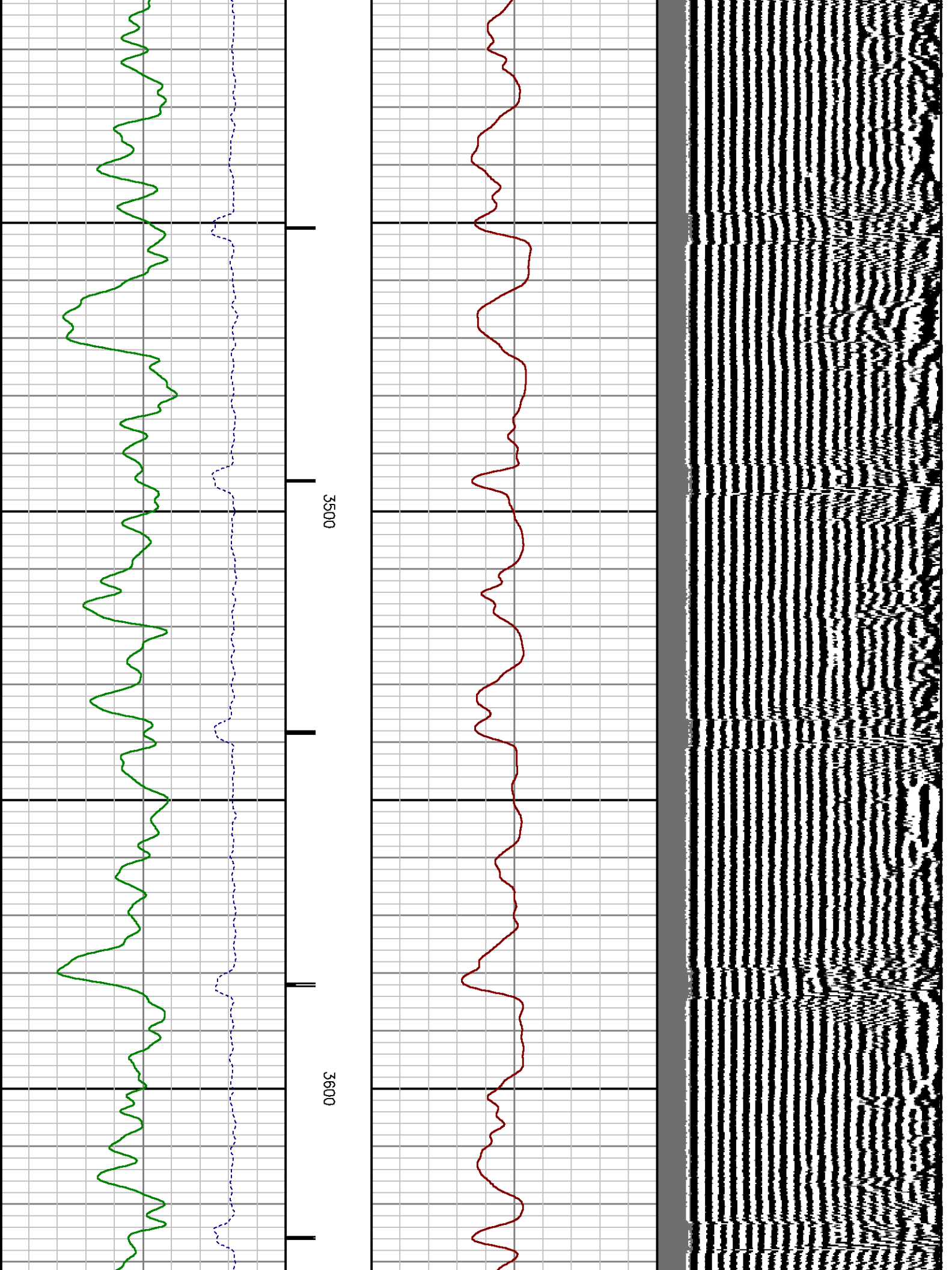


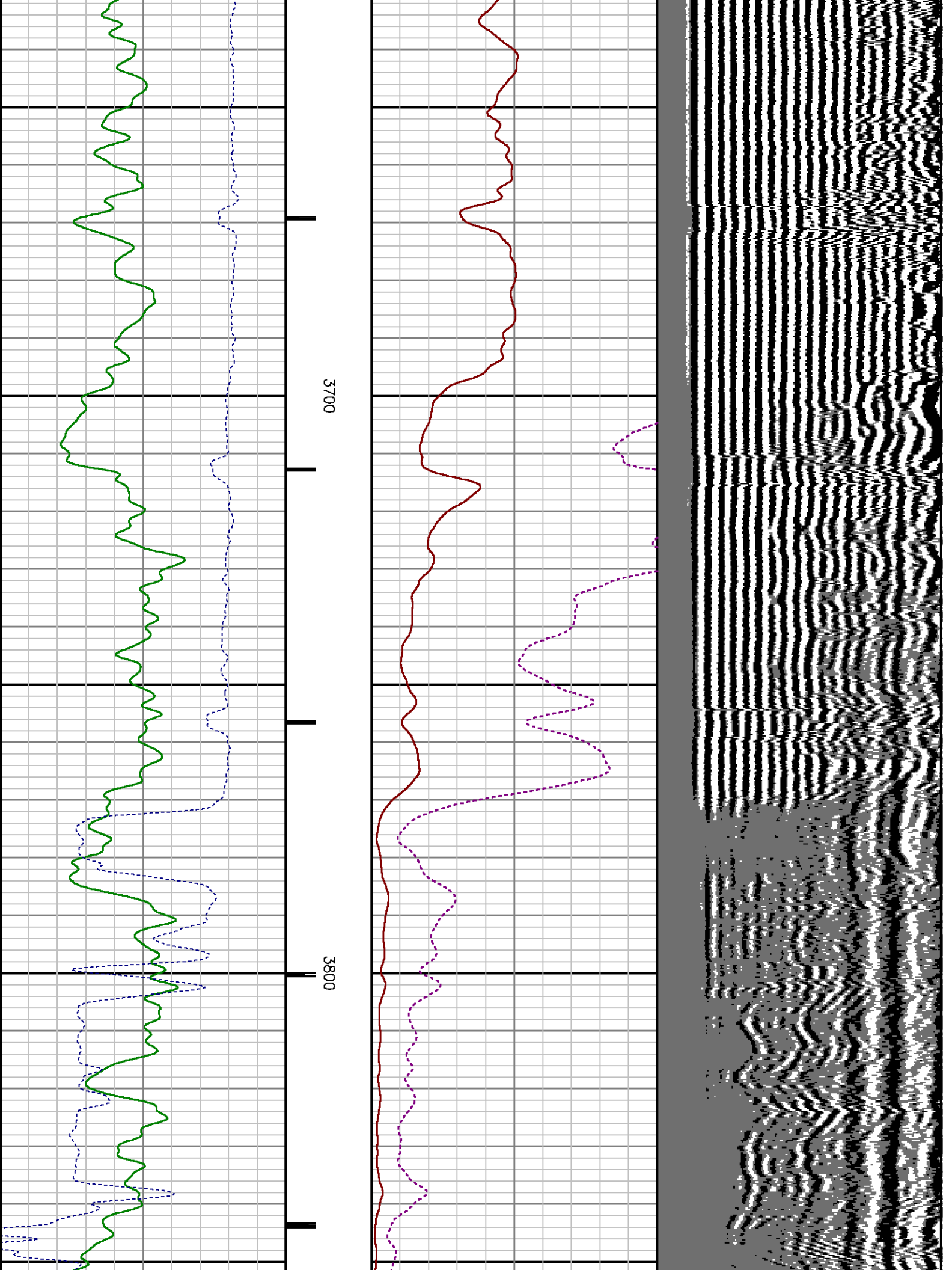


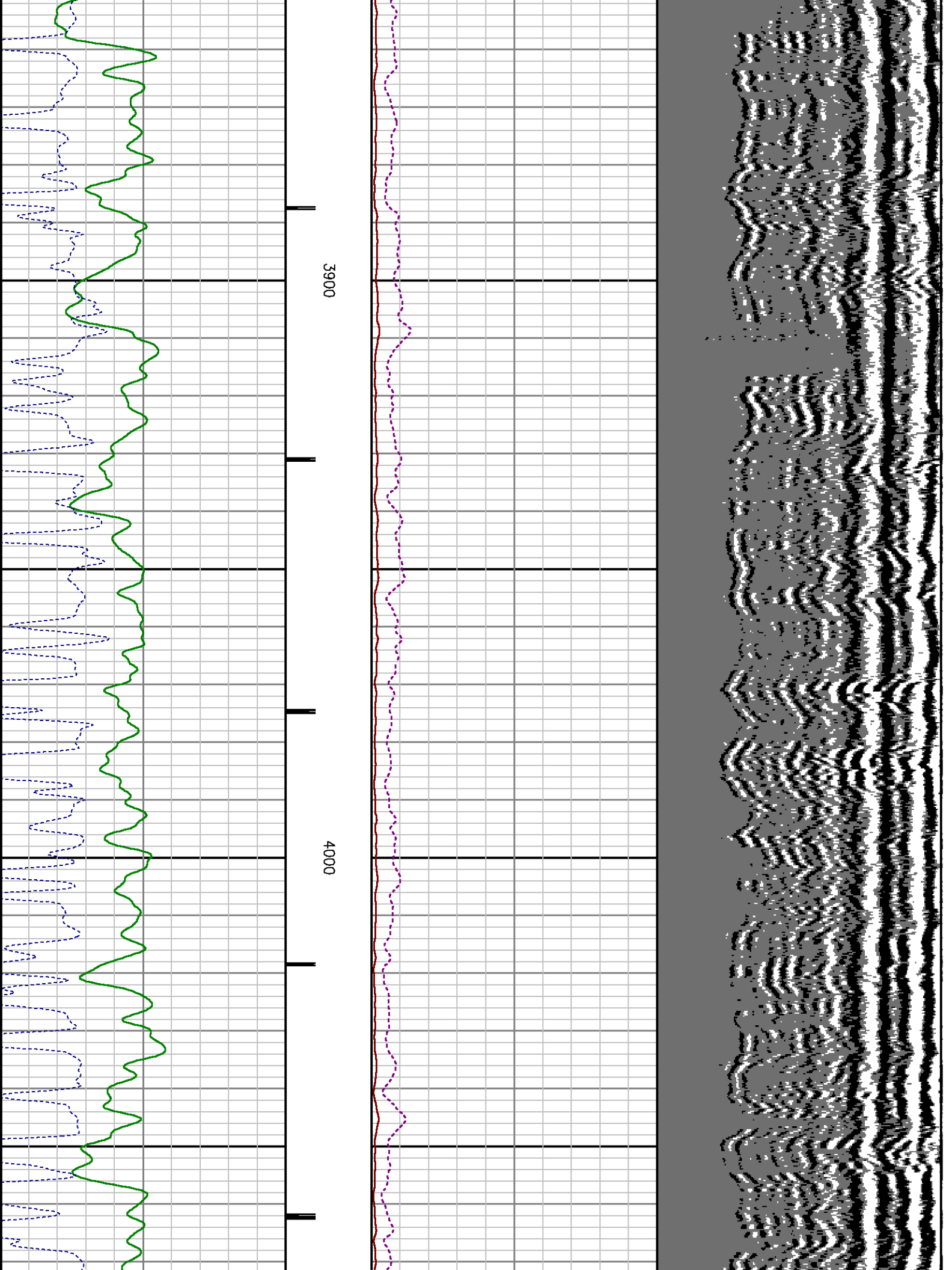


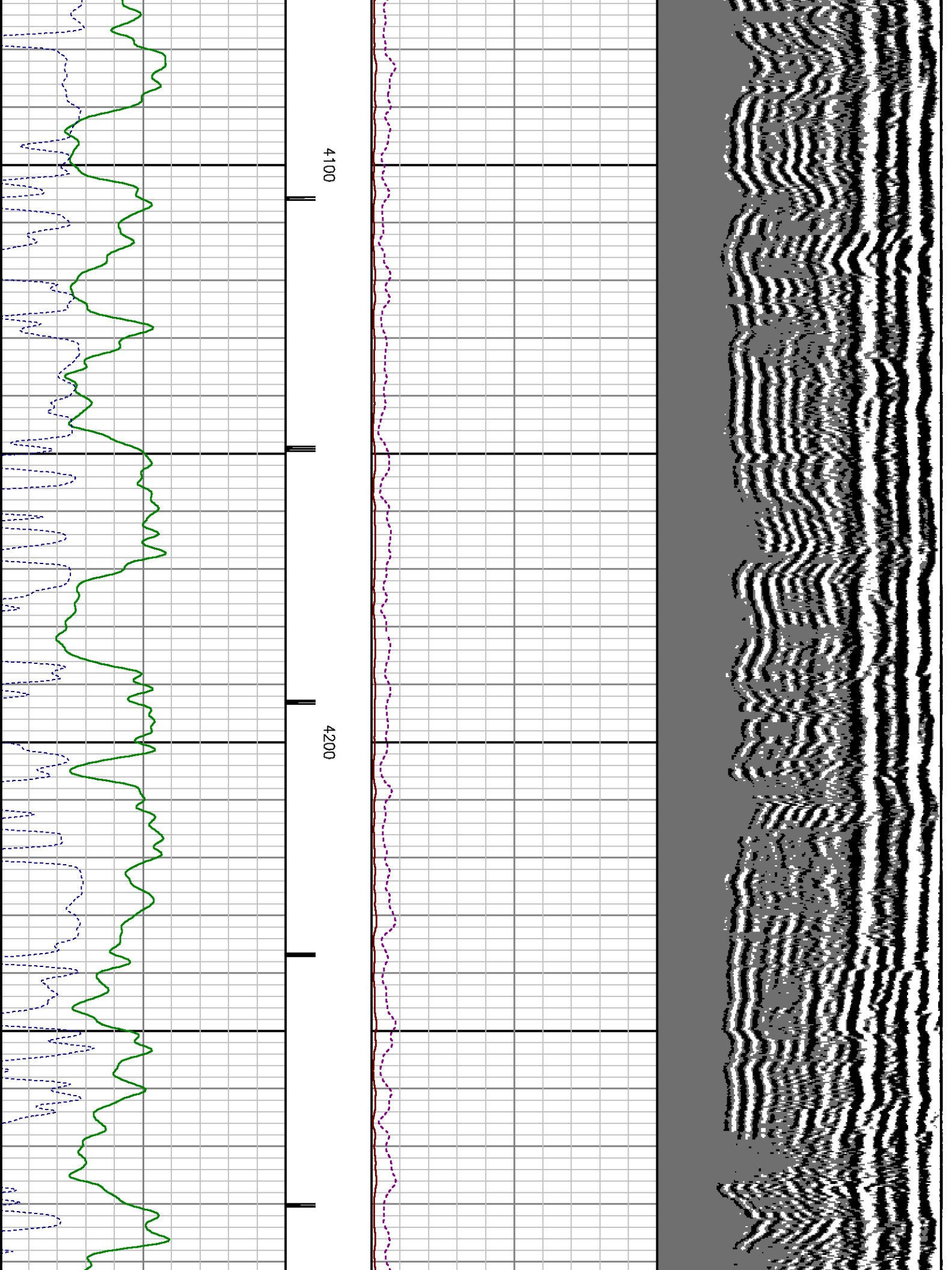




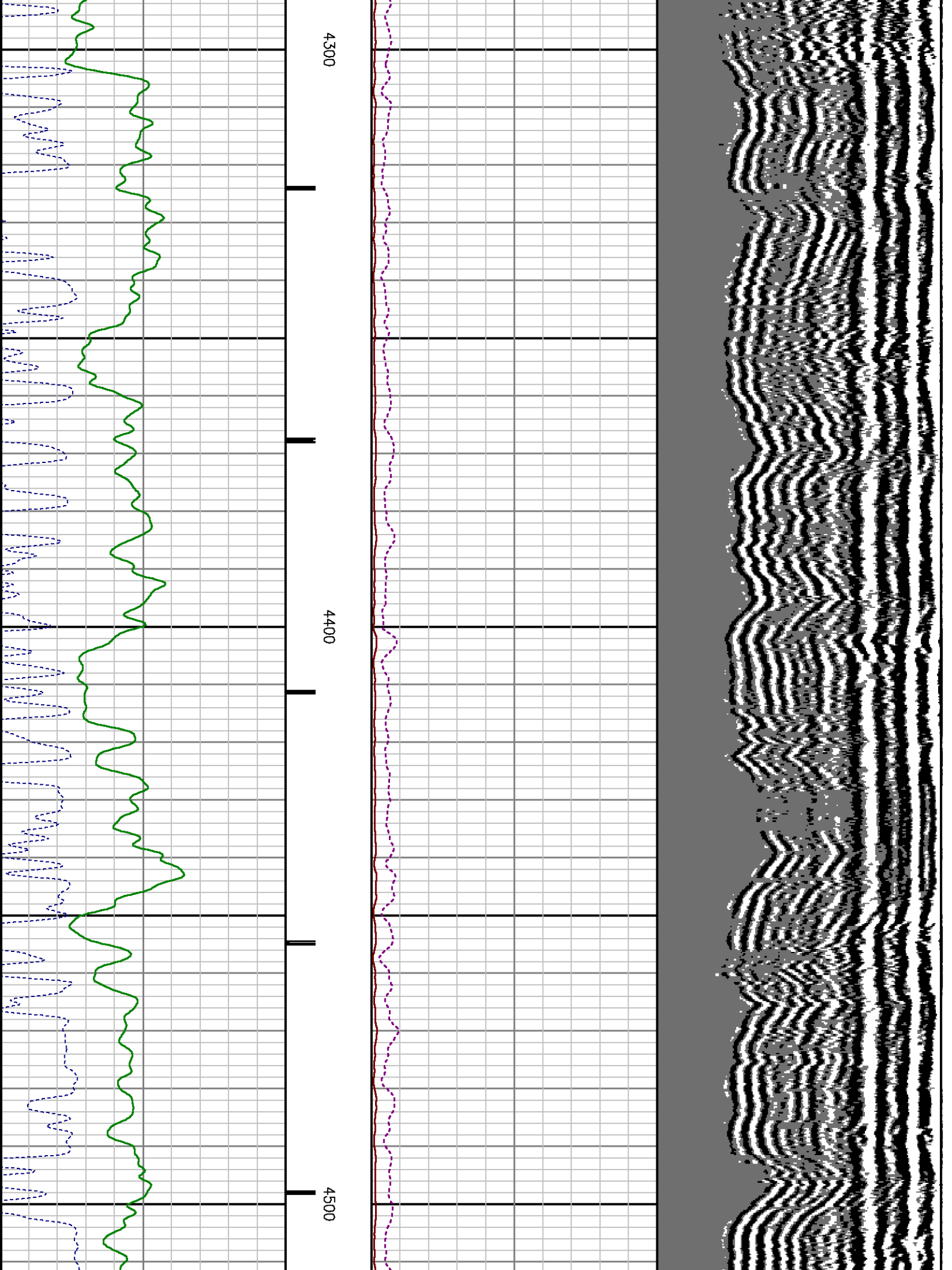


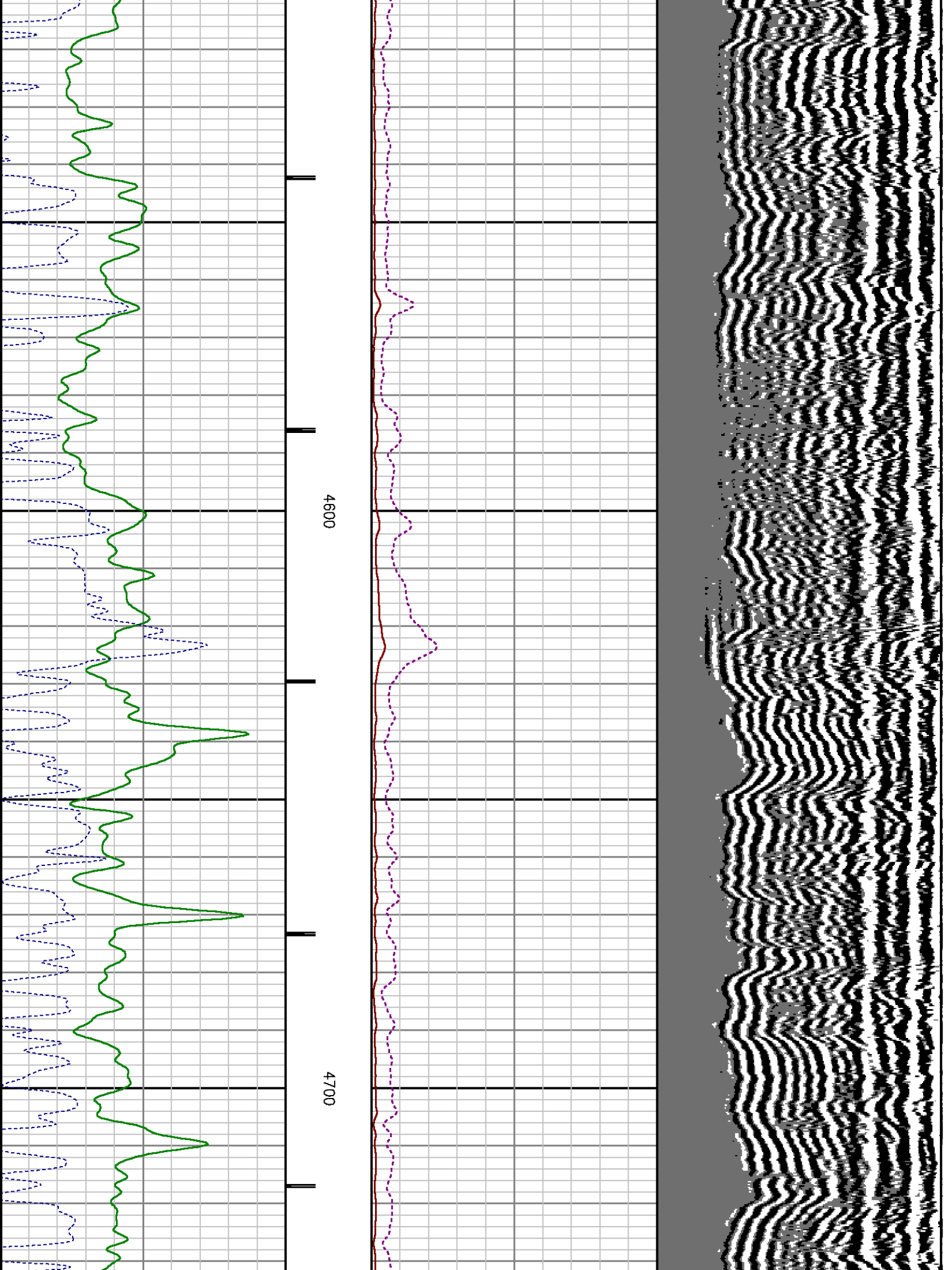




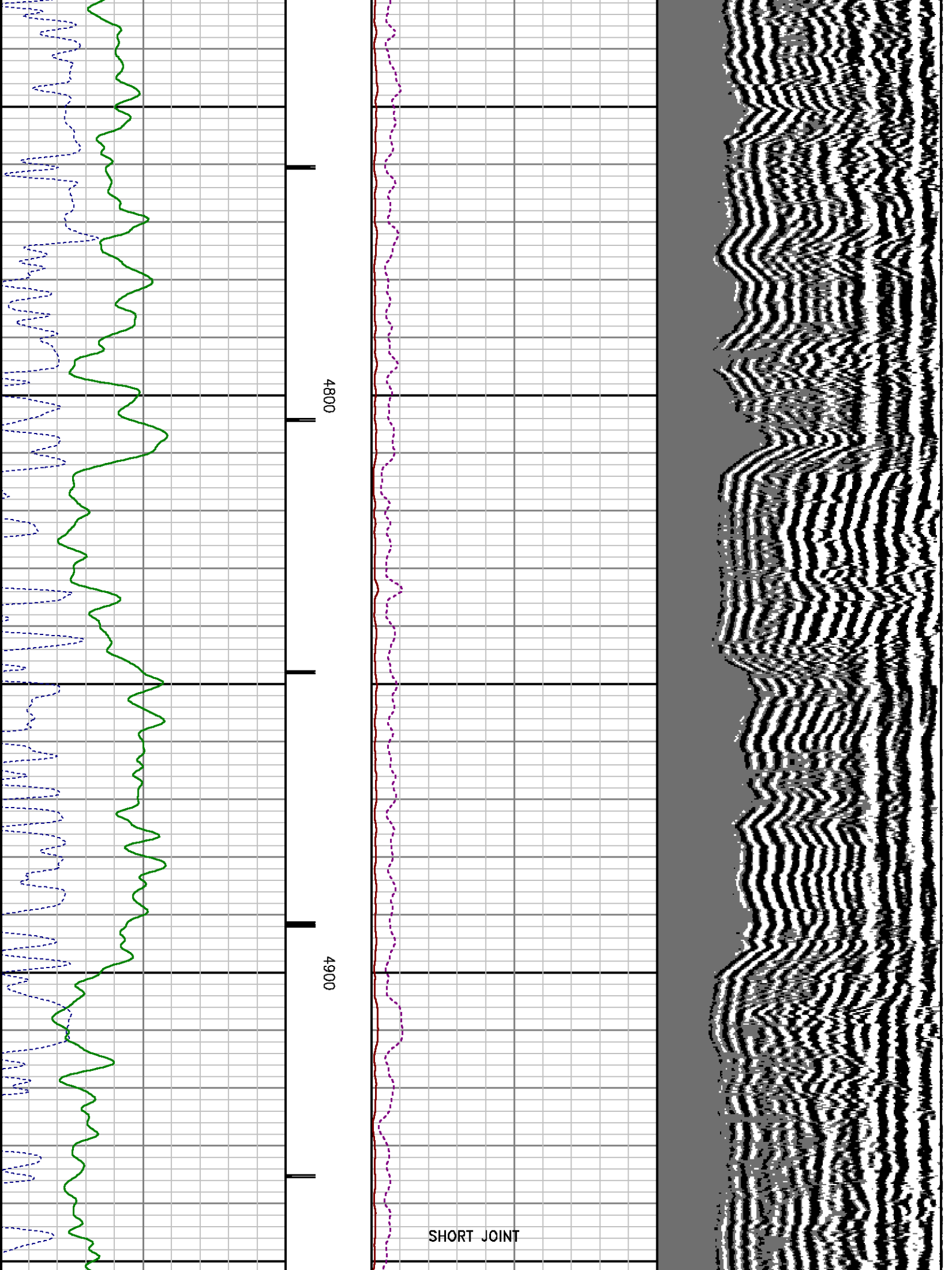


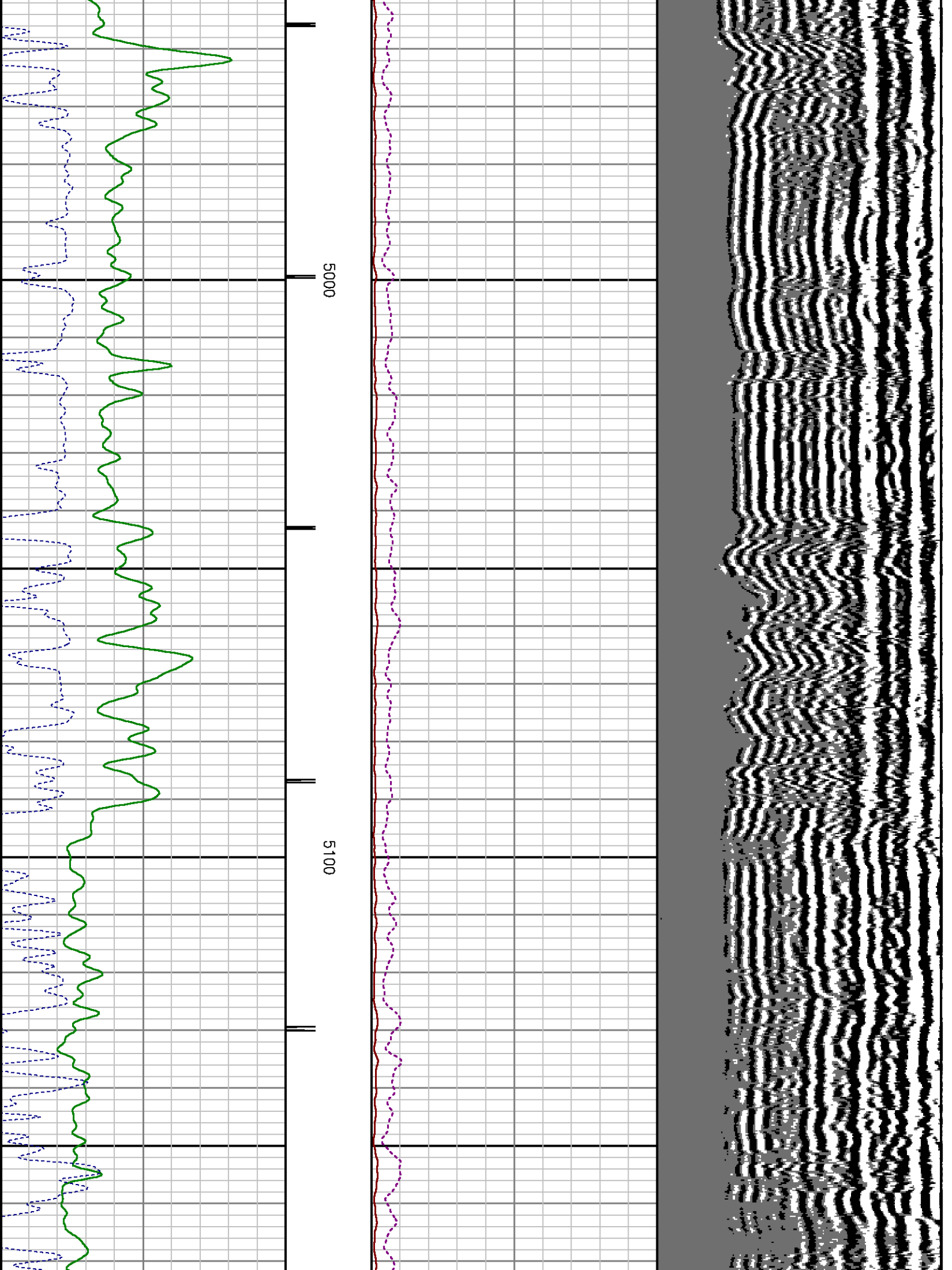


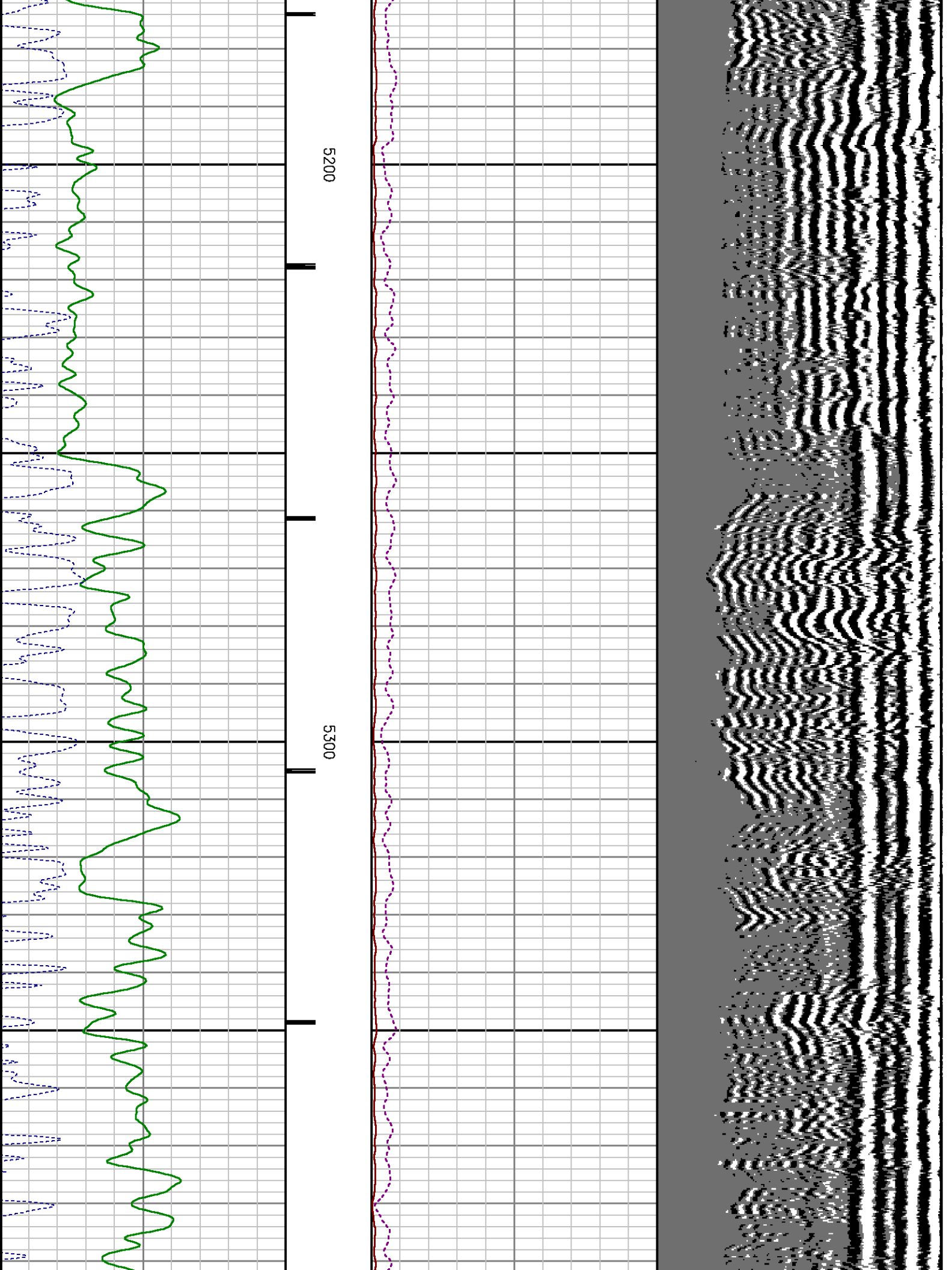


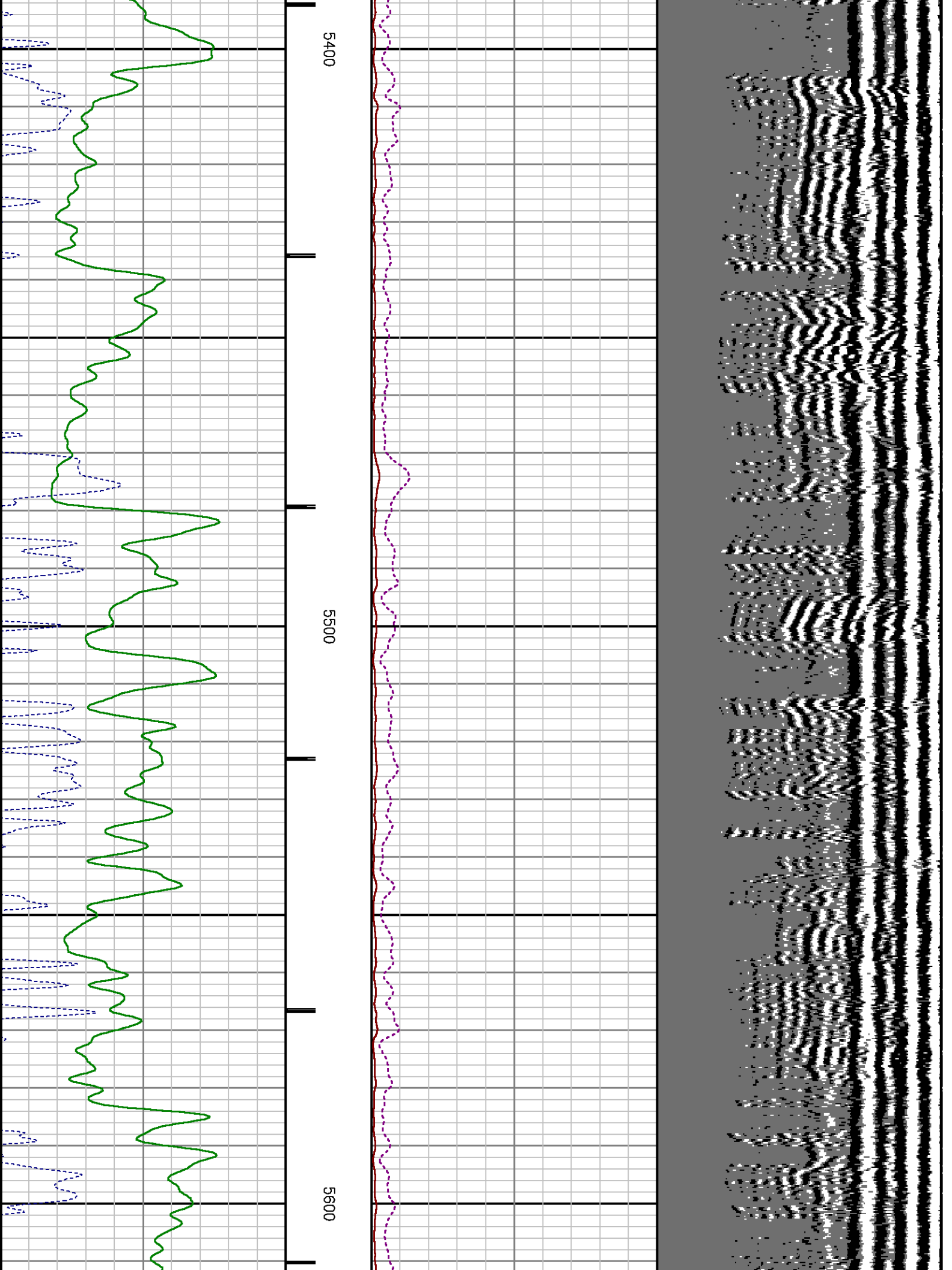


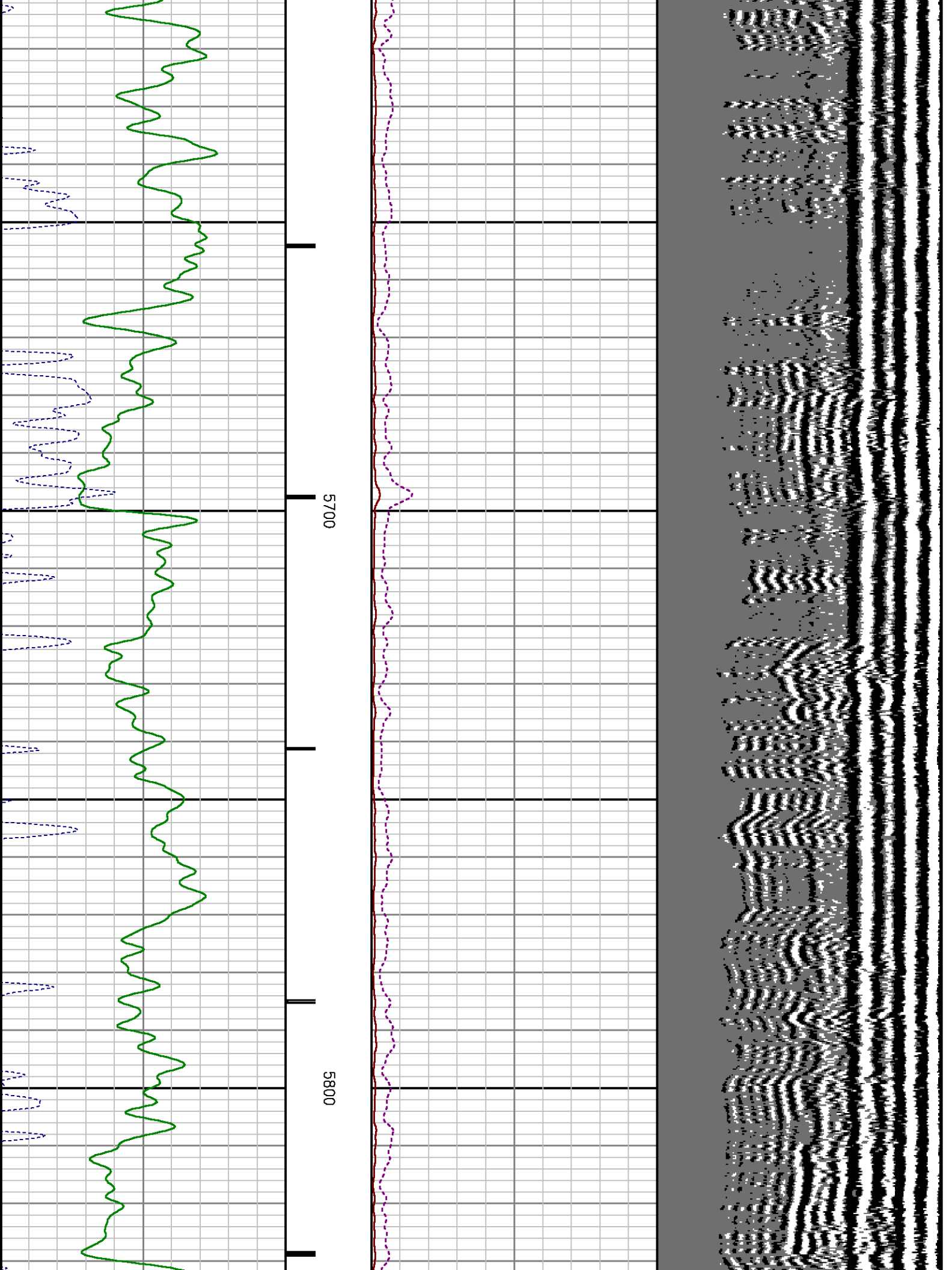


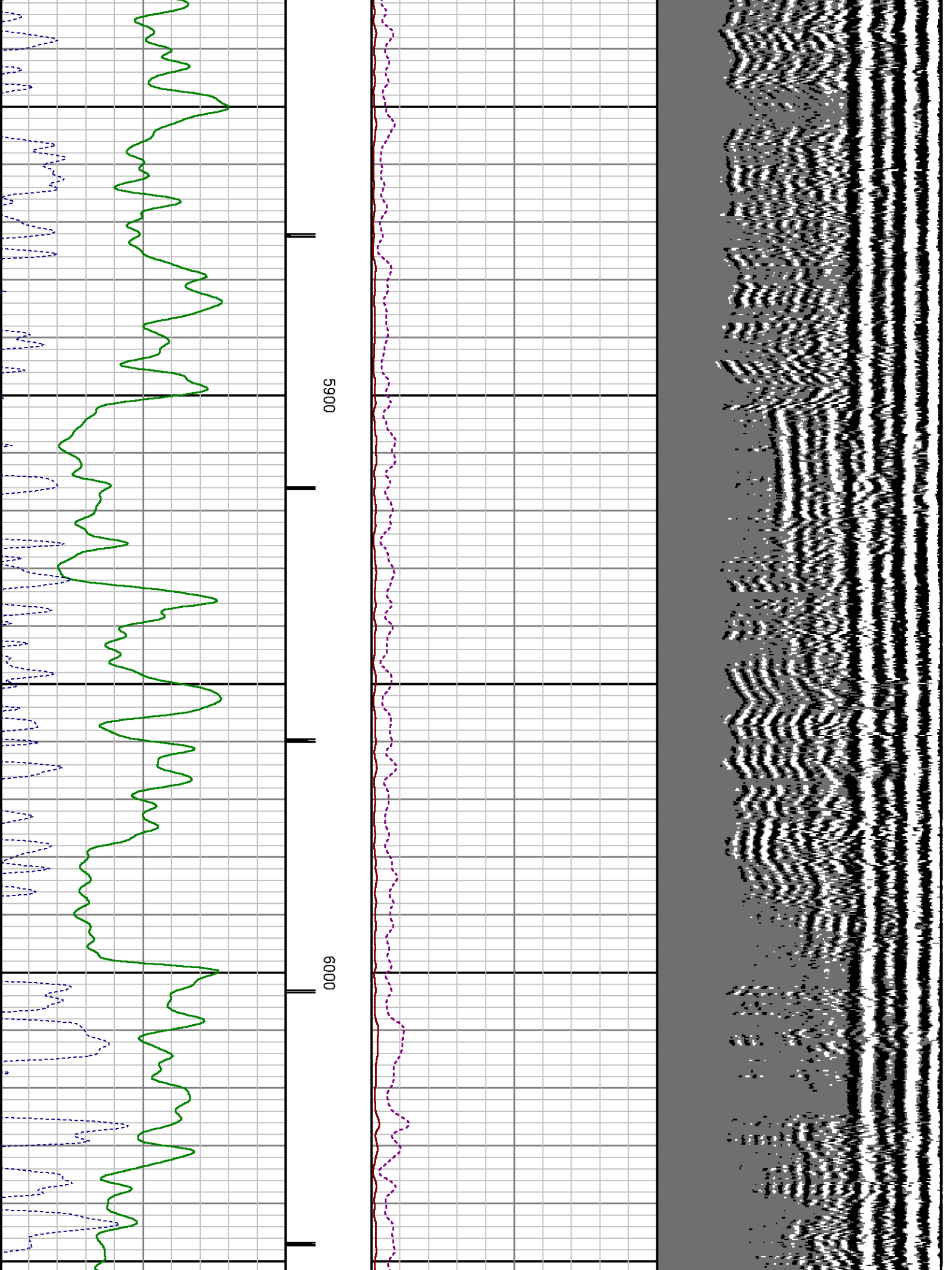




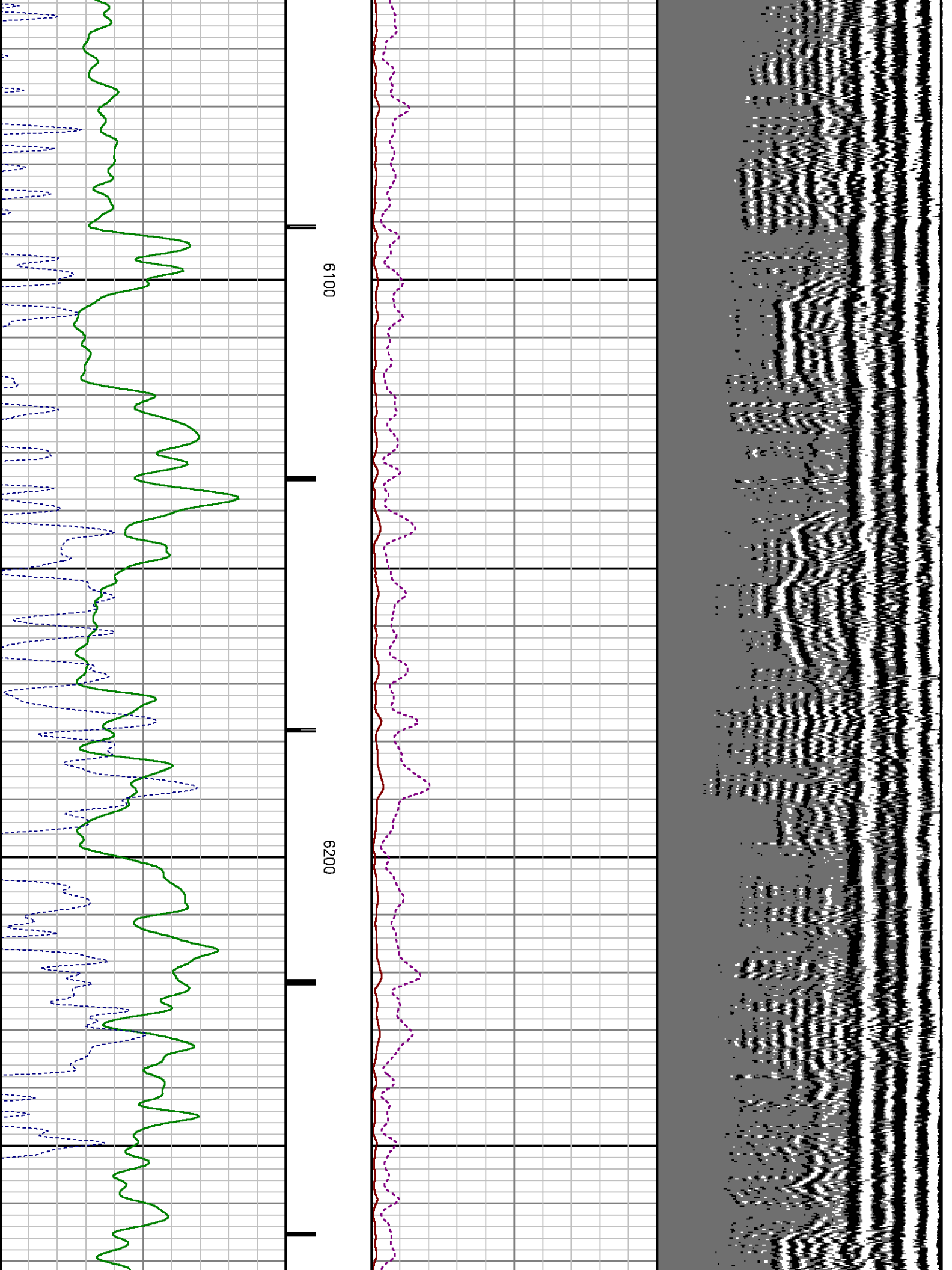


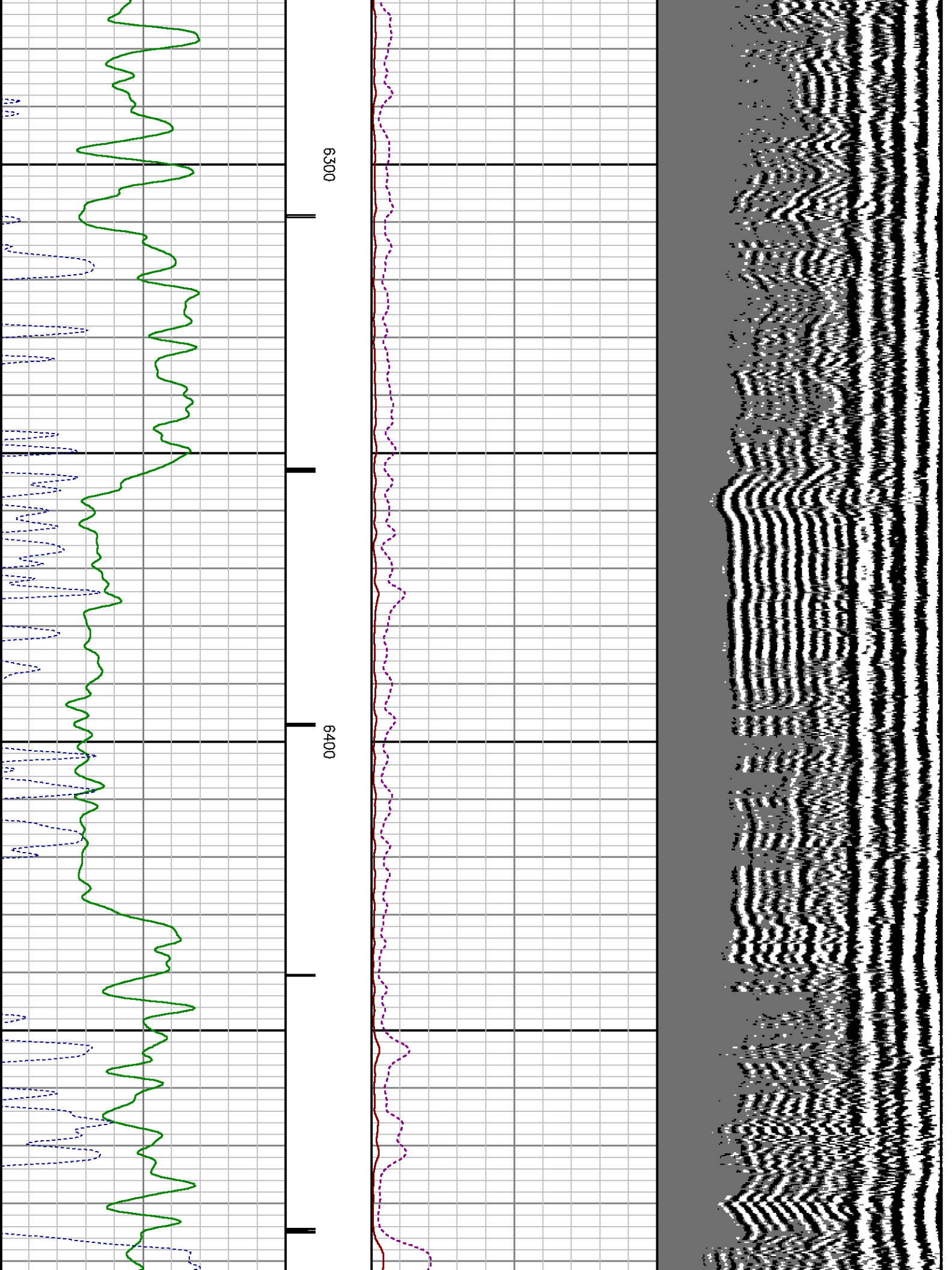




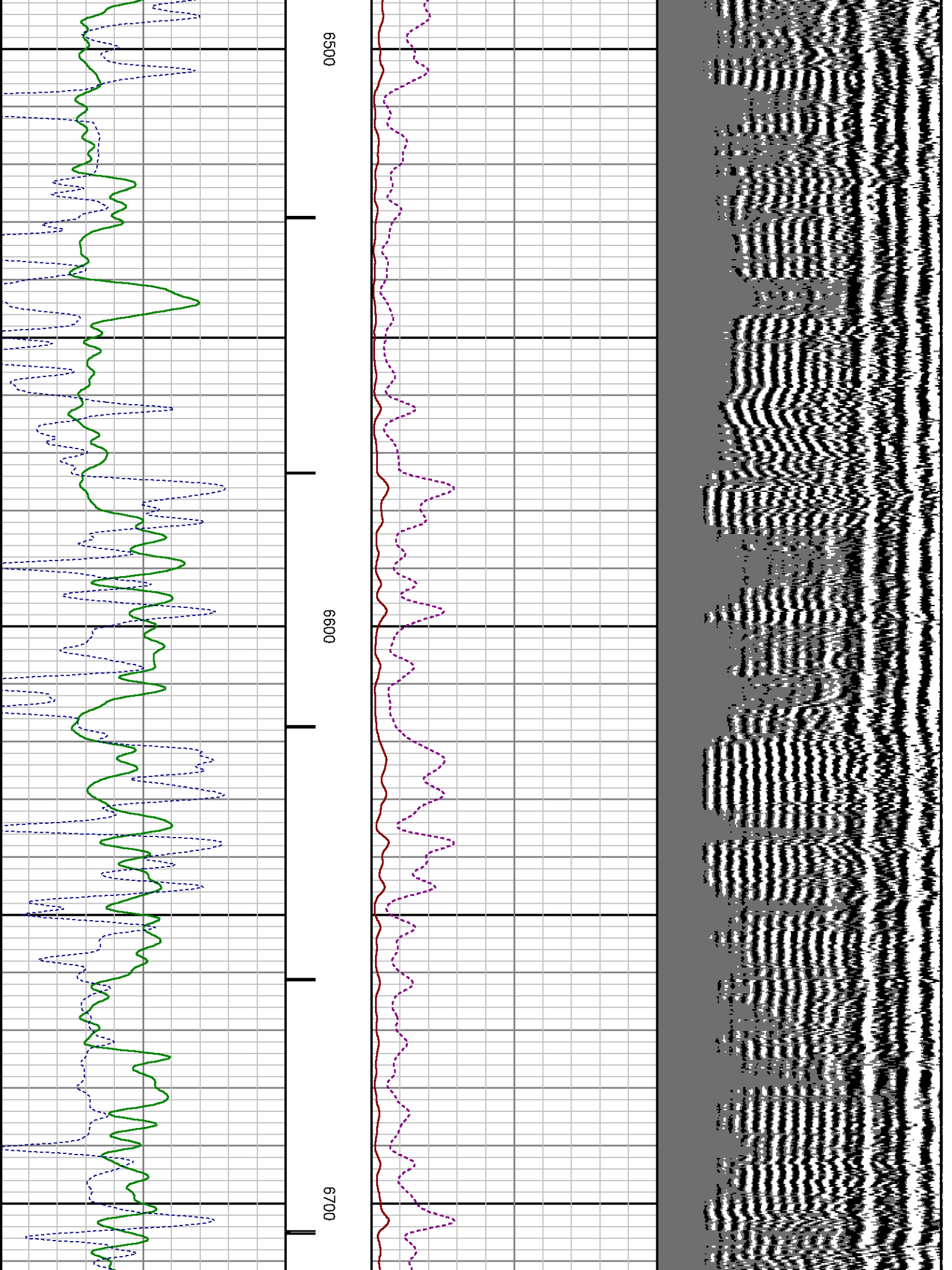


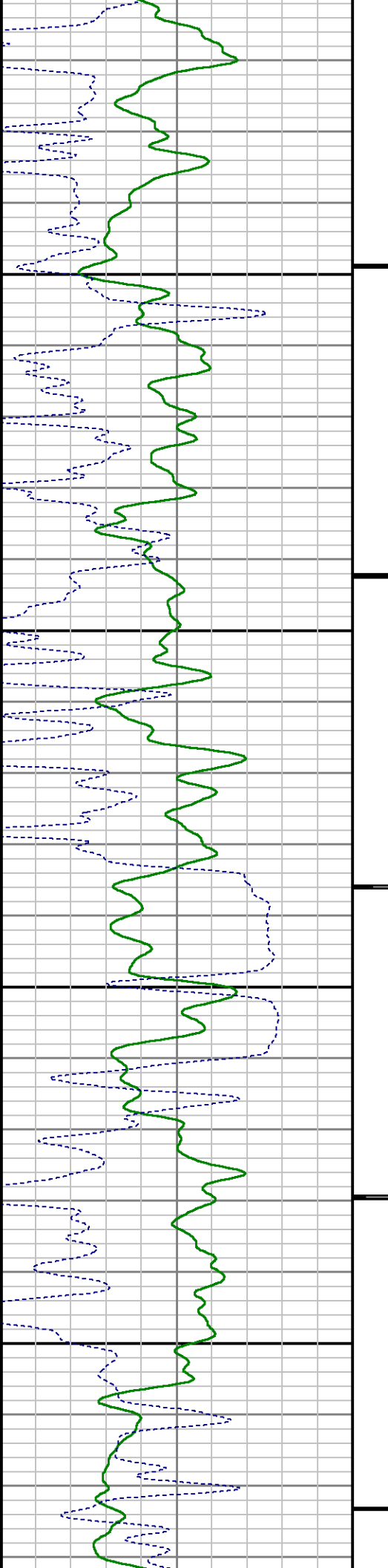






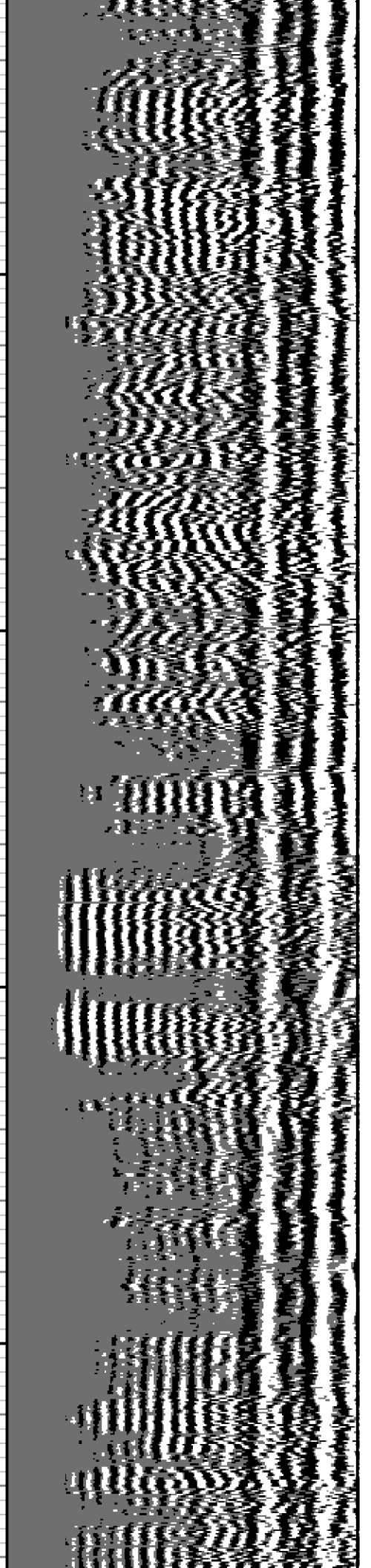
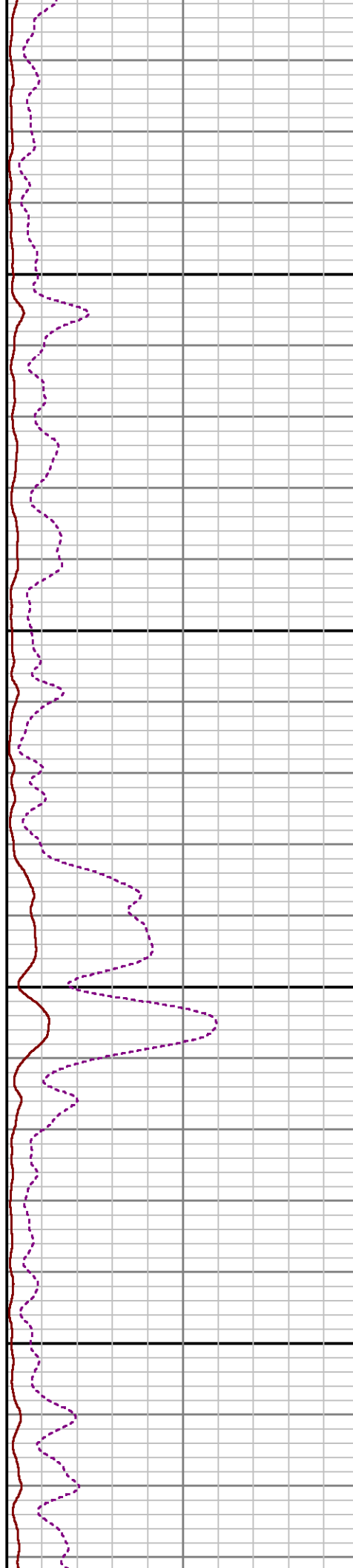


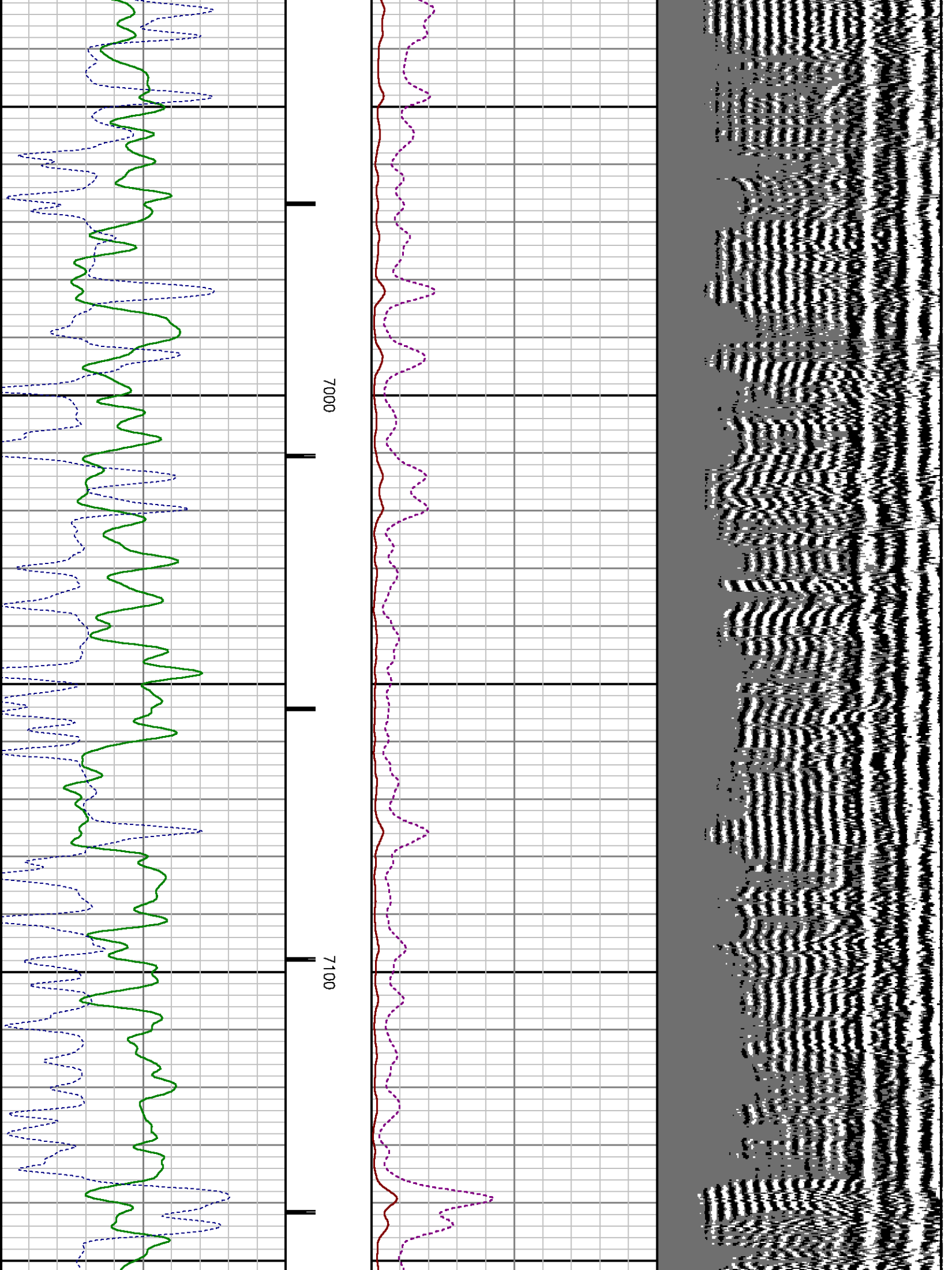


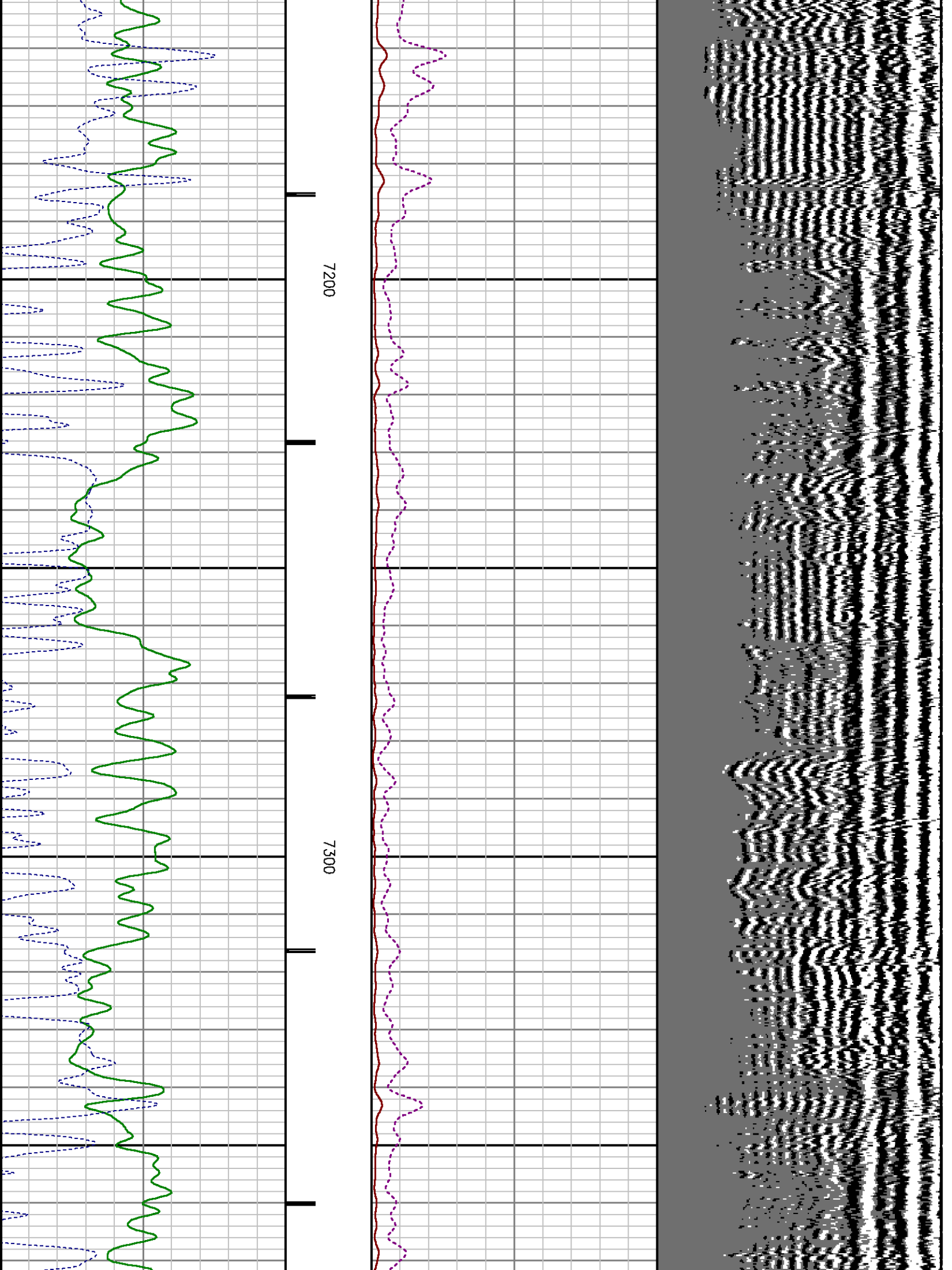


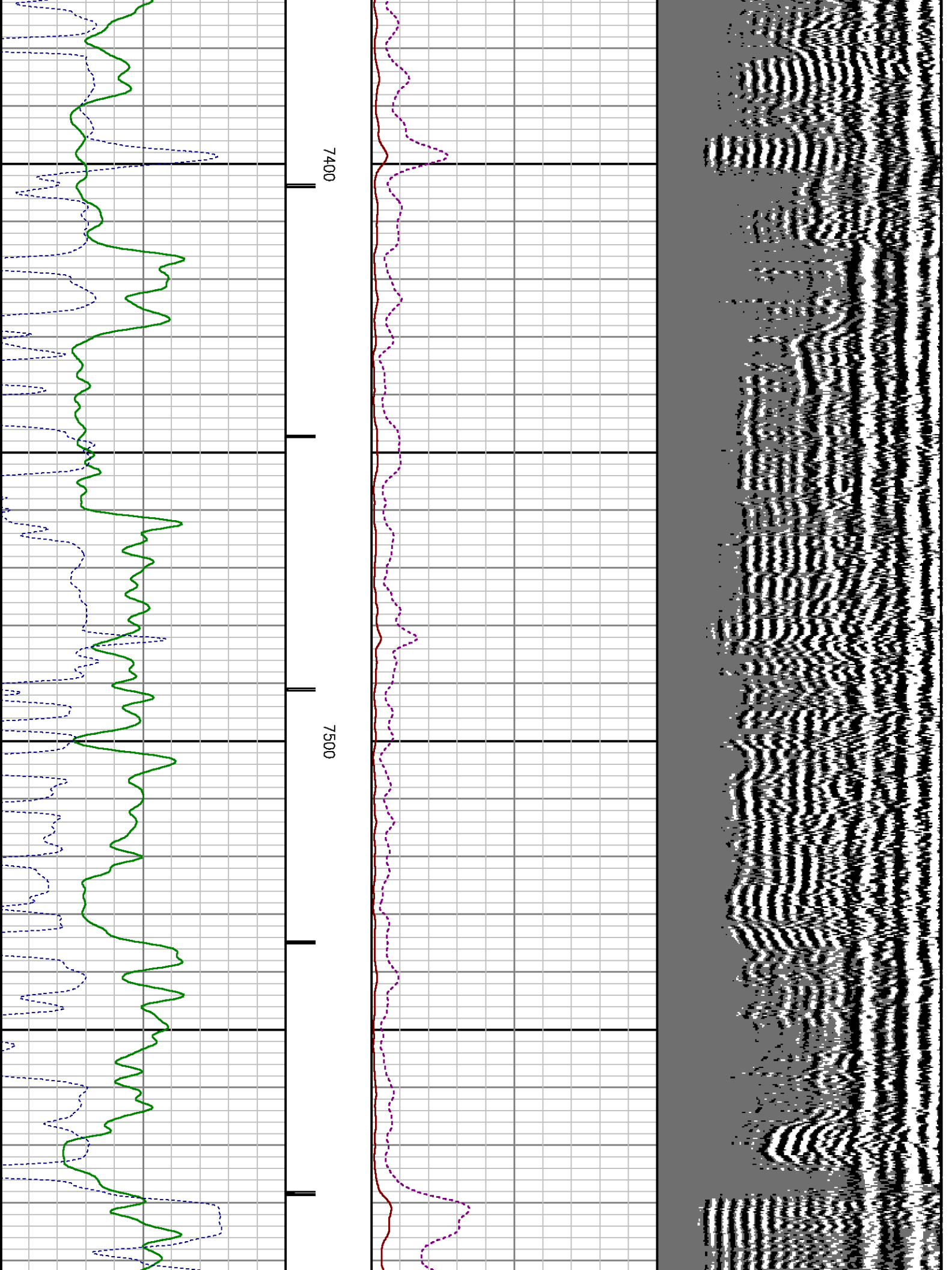
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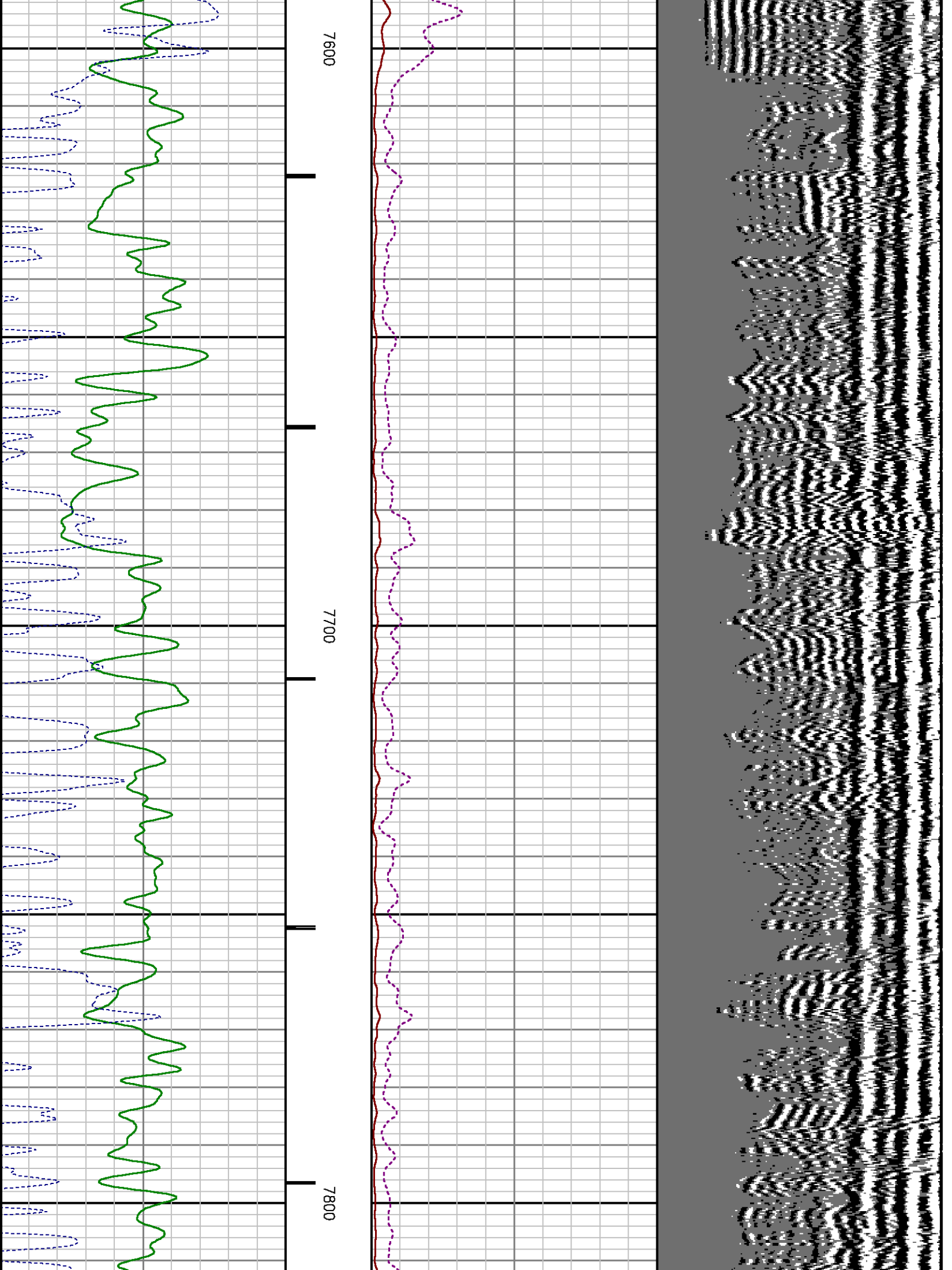


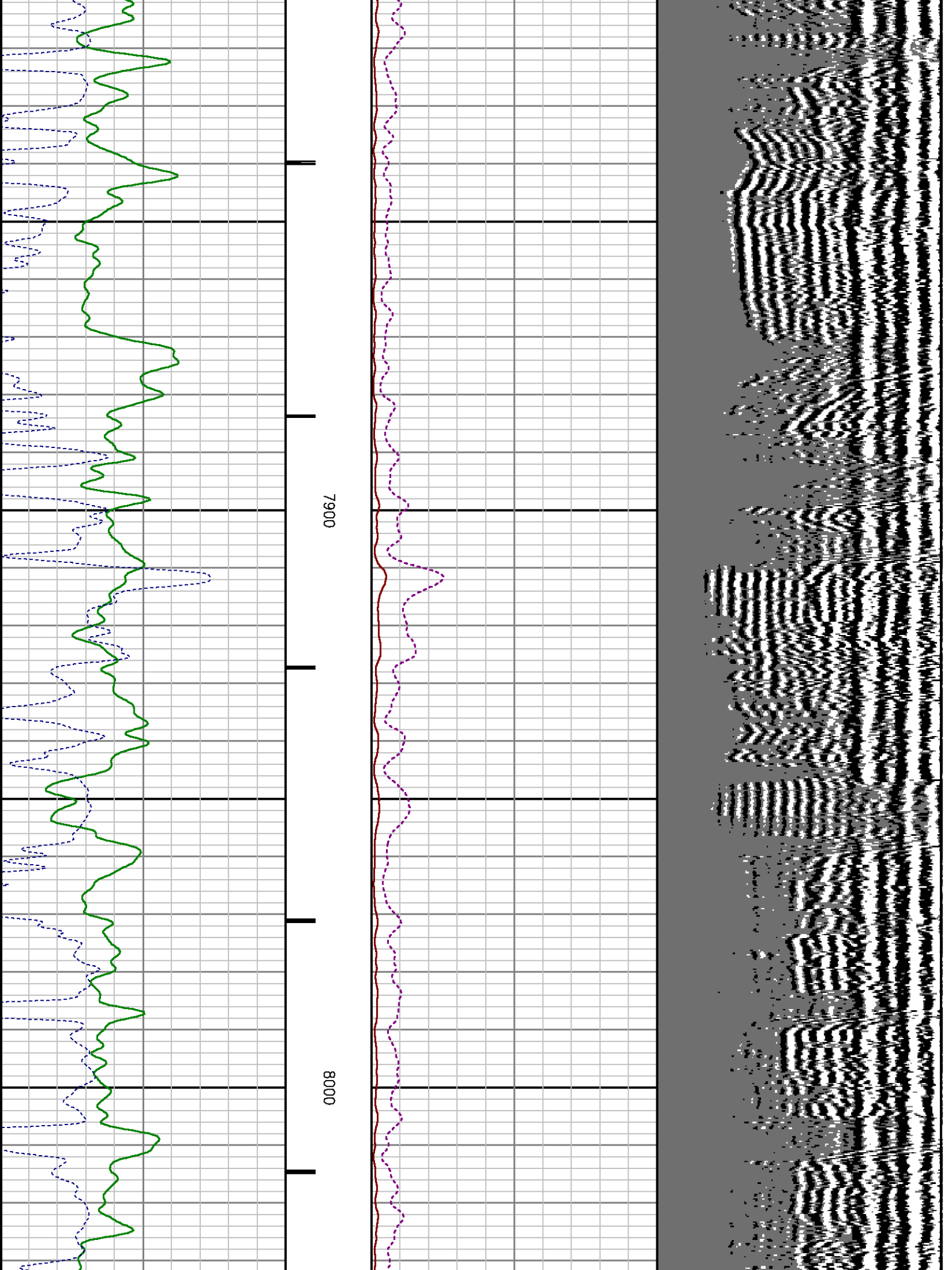


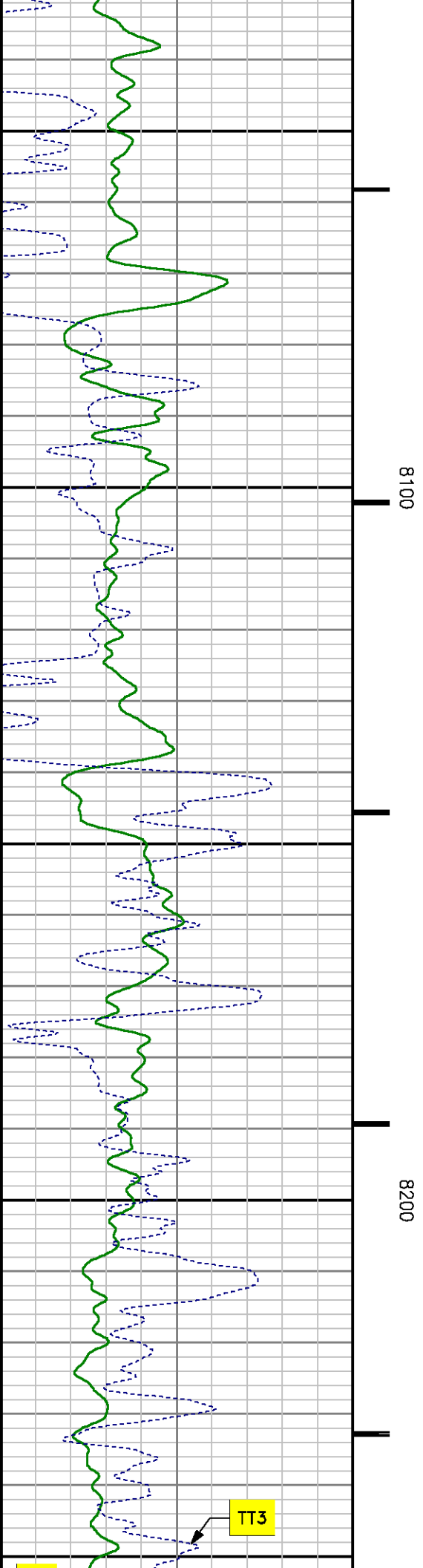
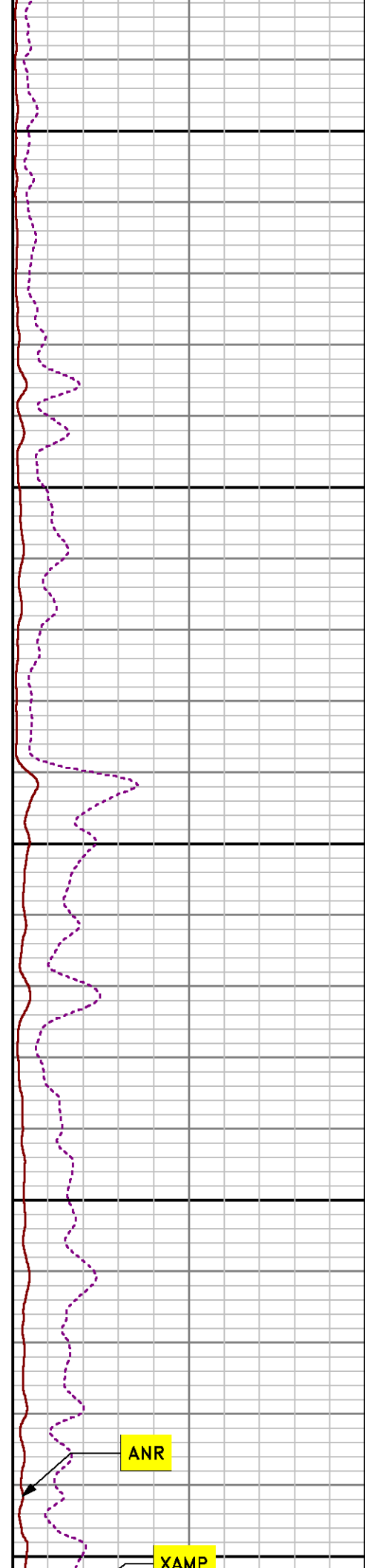
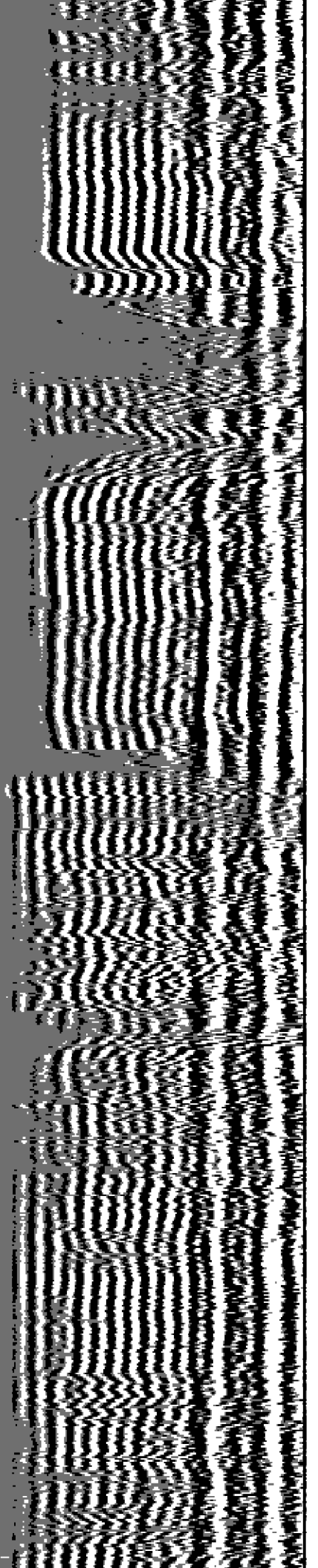




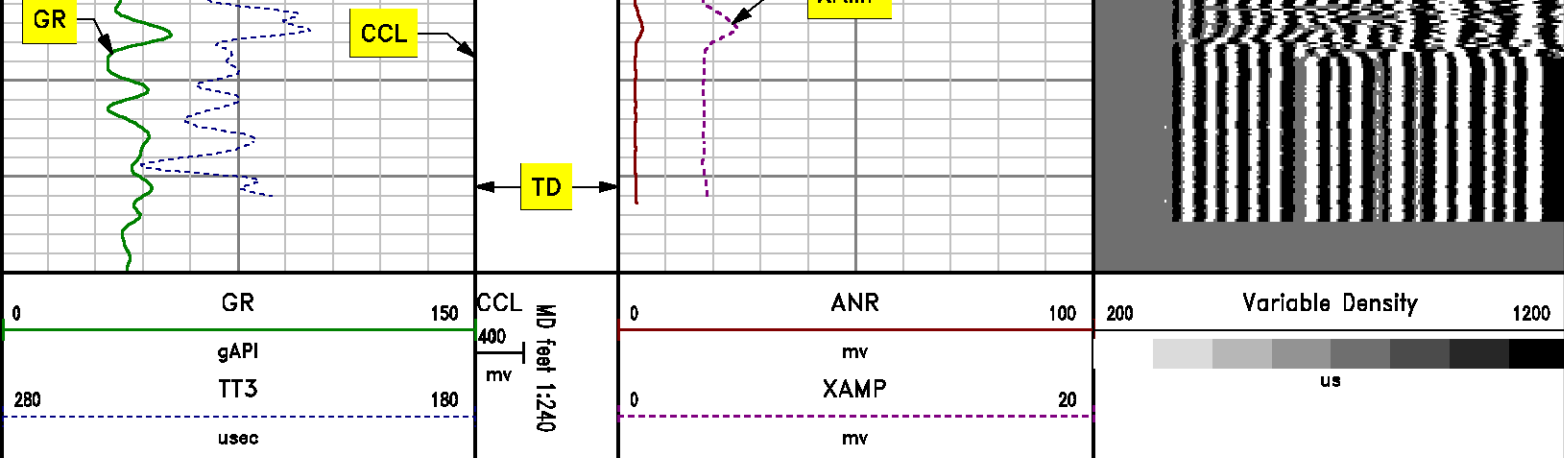












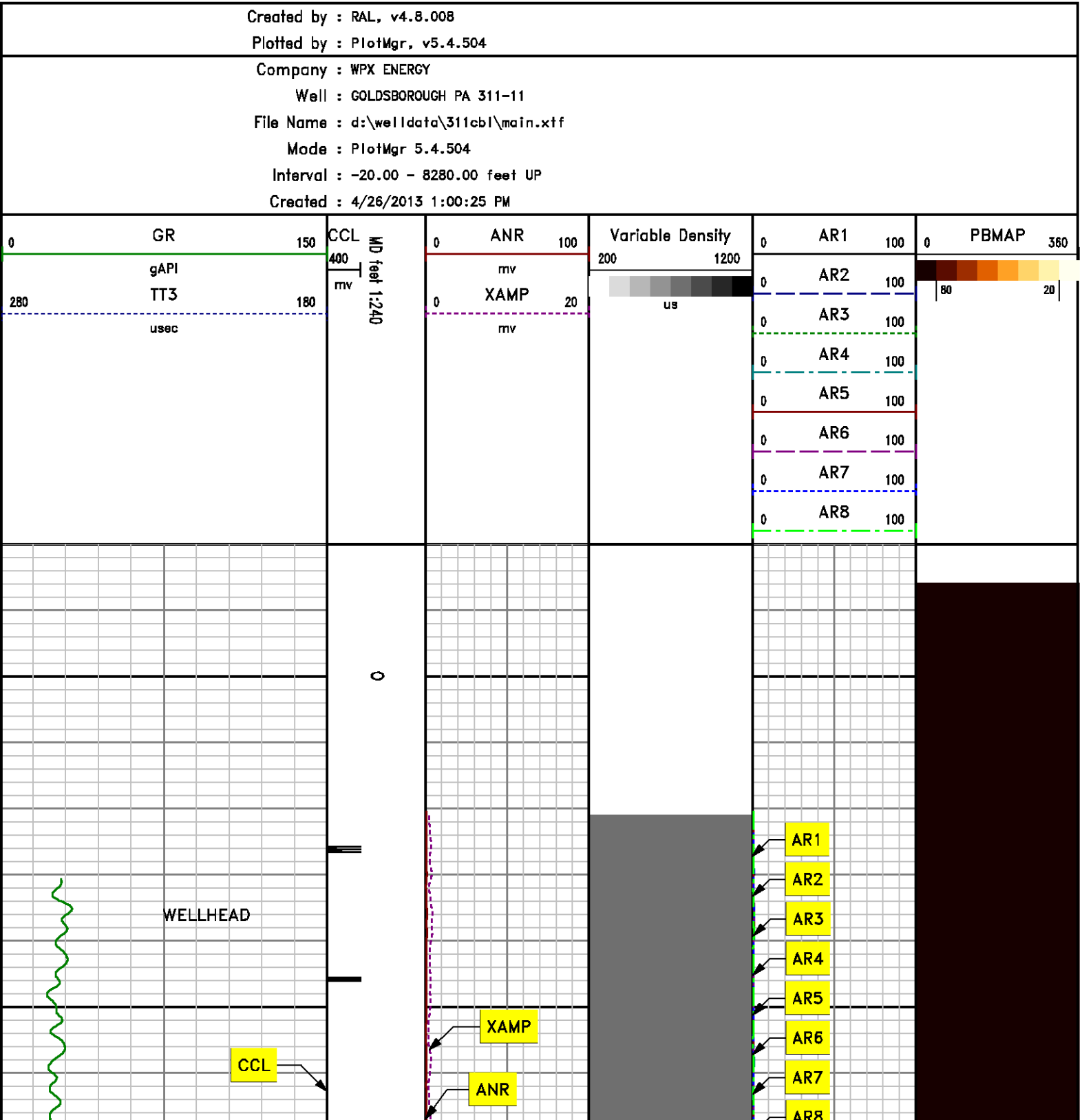
## MAIN LOG SECONDARY PRESENTATION

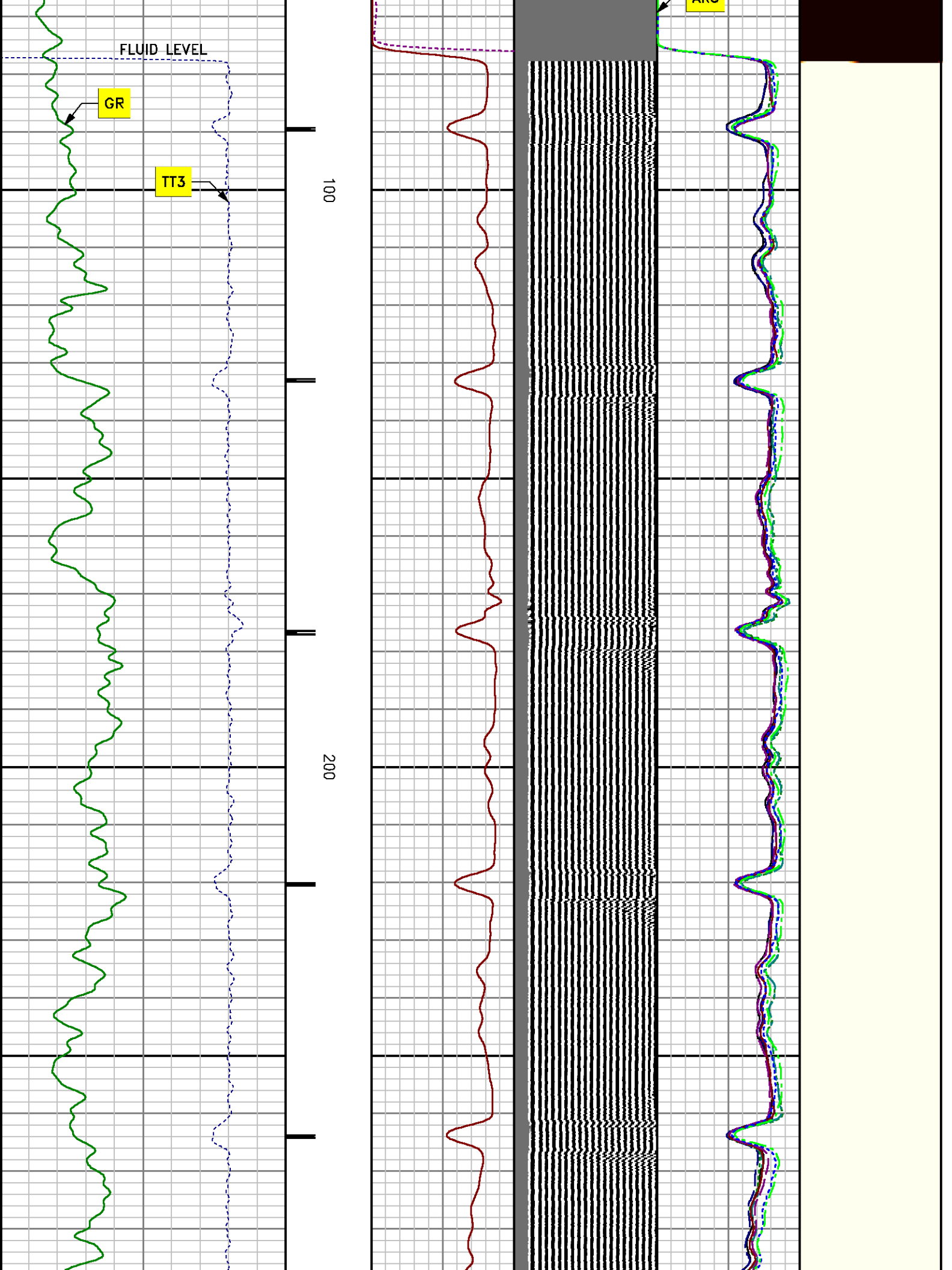
### 0 PSI

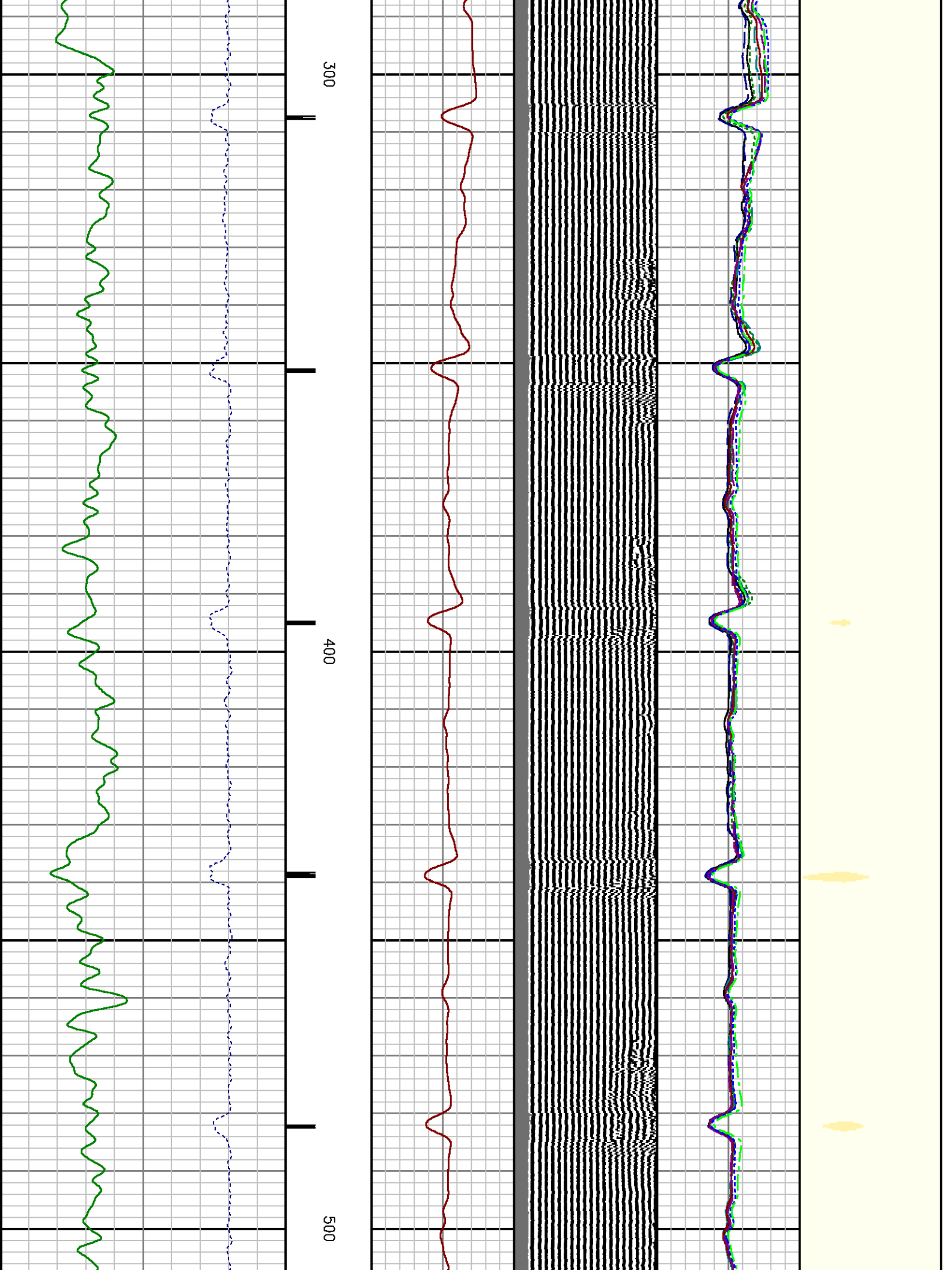
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	307.440	u sec	34.343	8285.000
RAL	Amp Gate Start Near	197.374	u sec	34.343	8285.000
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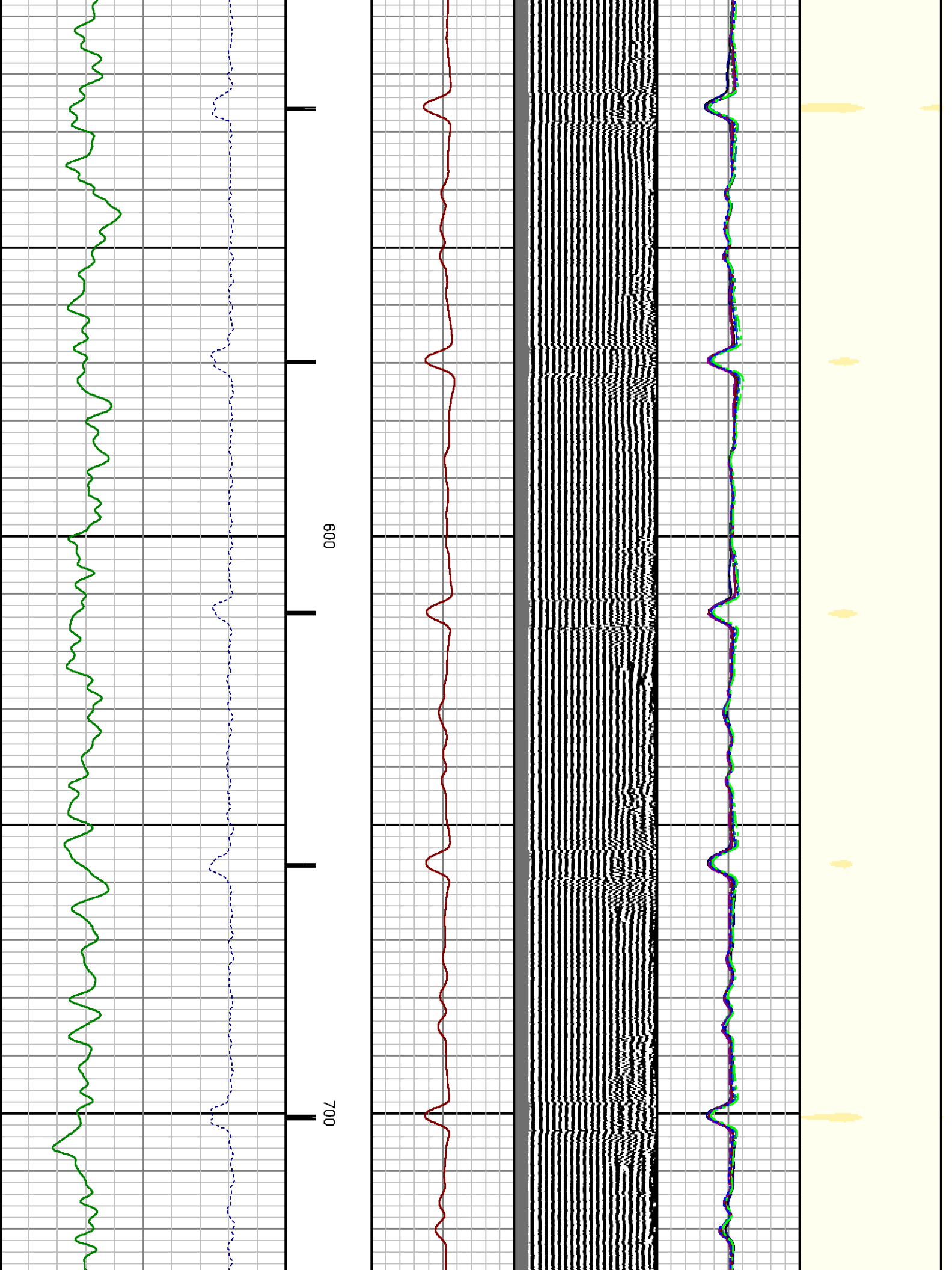
DEPTH OFFSETS  
(for Acquired Curves)

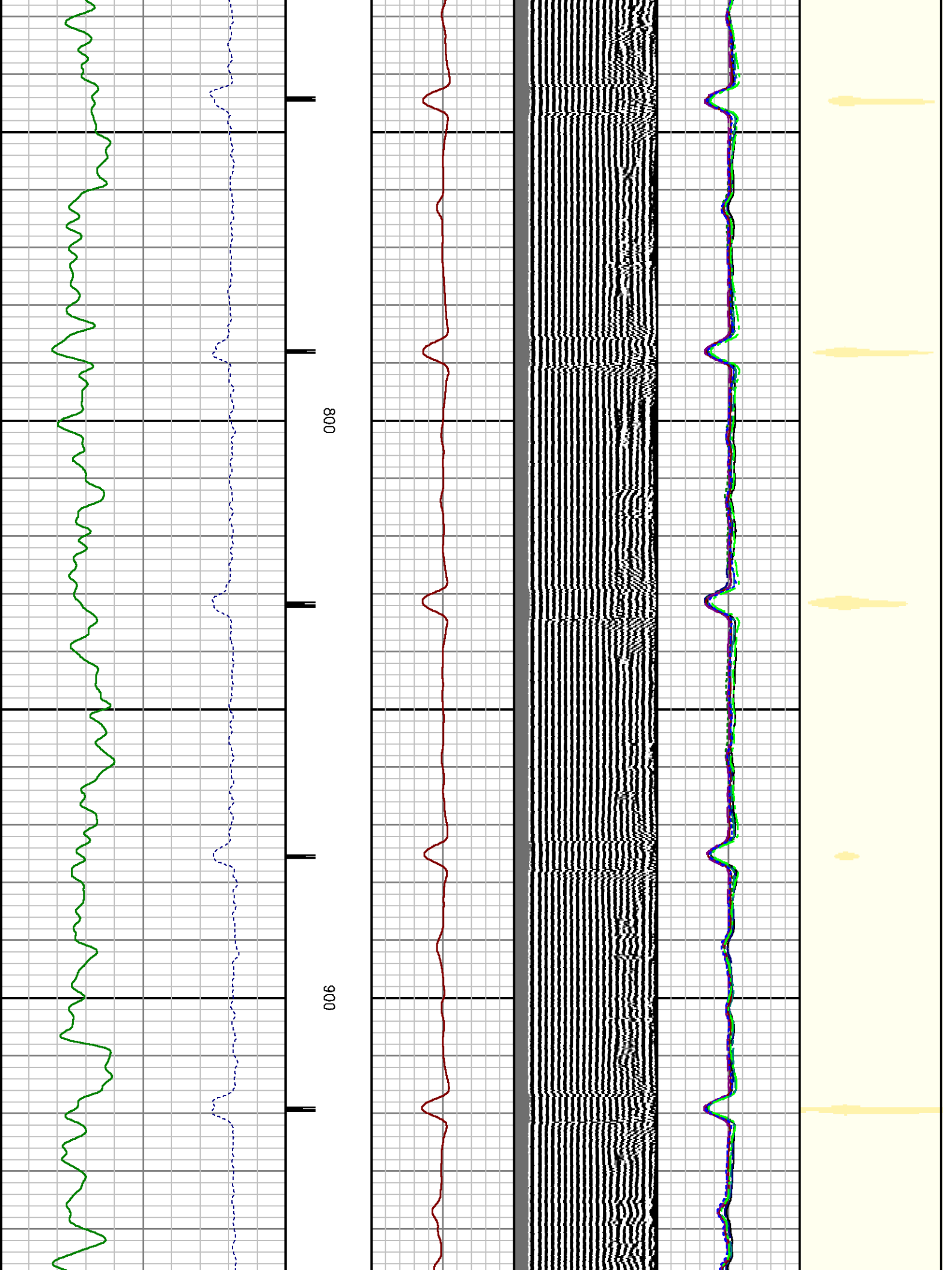
SERIES	DEPTH	OFFSET	ACQUIRED CURVES					
1426XA	-11.000		ACAL	ANR	AR1	AR2	AR3	AR4
			AR5	AR6	AR7	AR8	CHV	FPR2
			FPR3	FPR5	TT3	TTR1	TTR2	TTR3
			TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
1426XA	-10.040		AFAR	SIG	TT5			
1355XA	-5.620		CCL					
1355XA	-1.500		GR					
1355XA	0.000		TEMP					



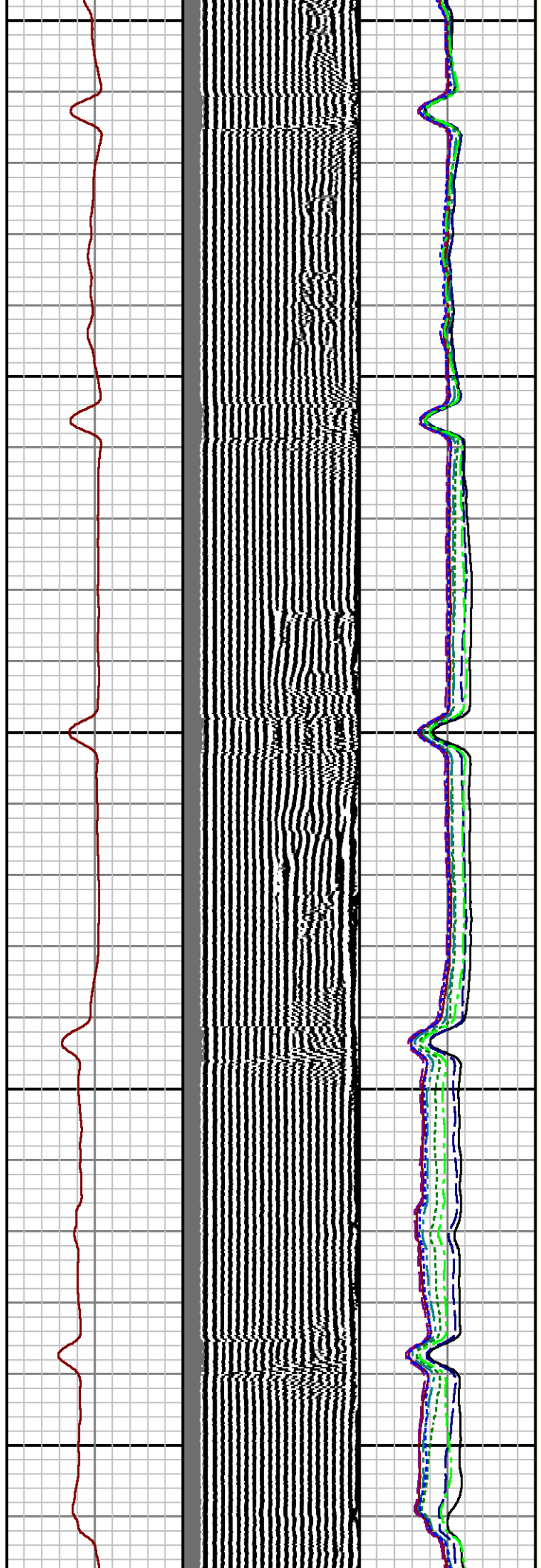






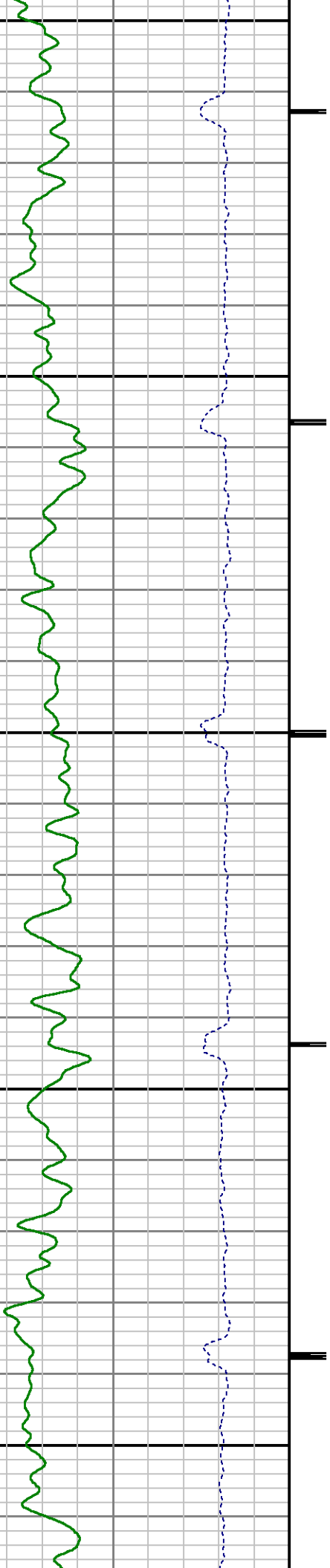


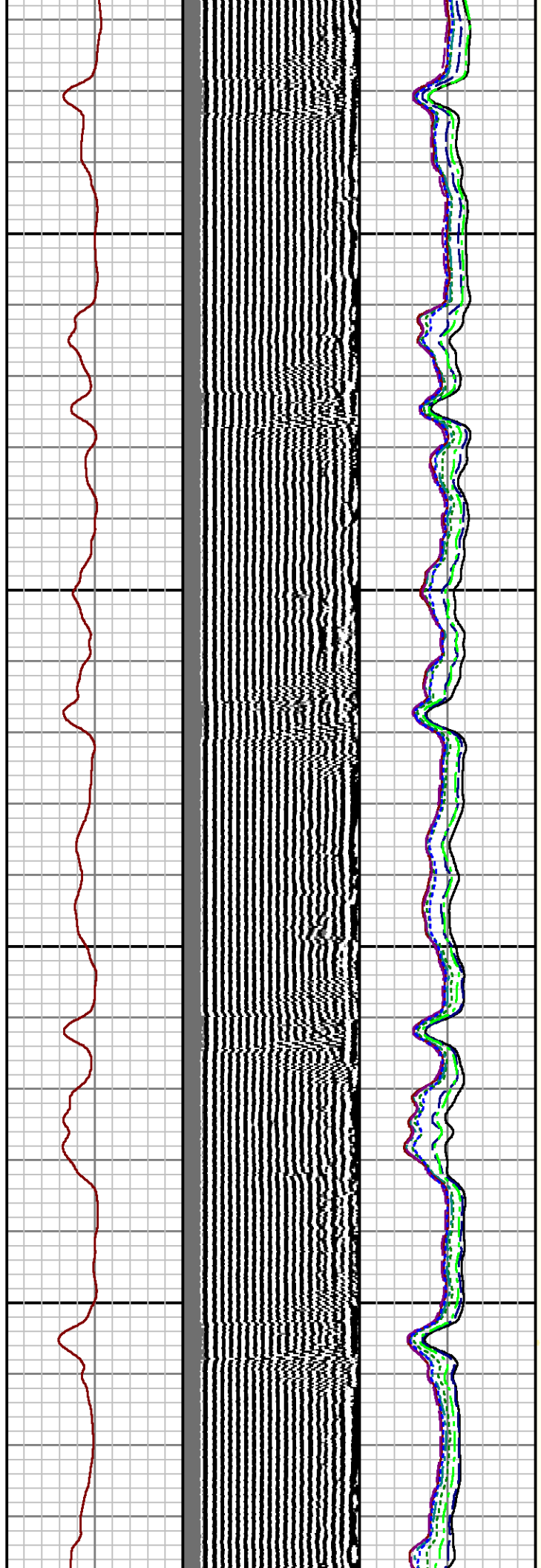
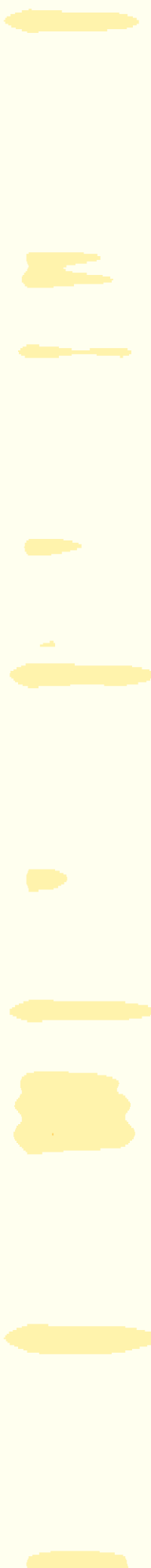




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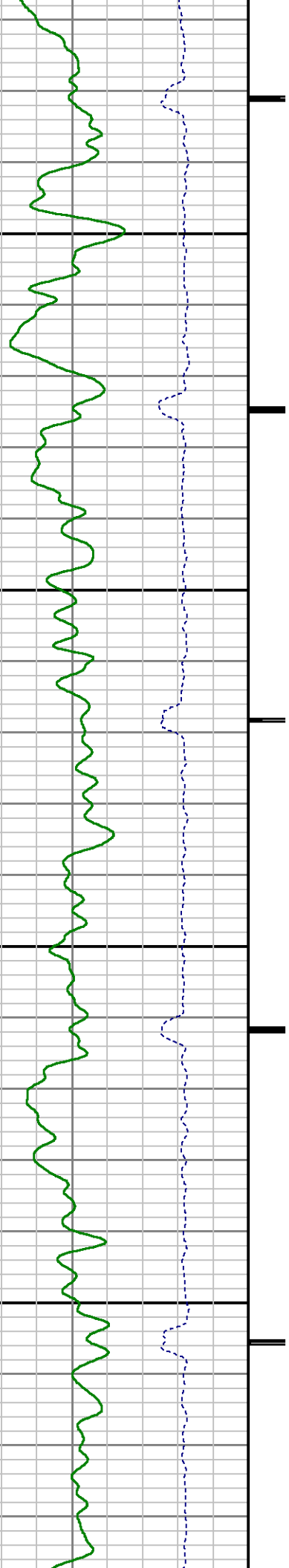
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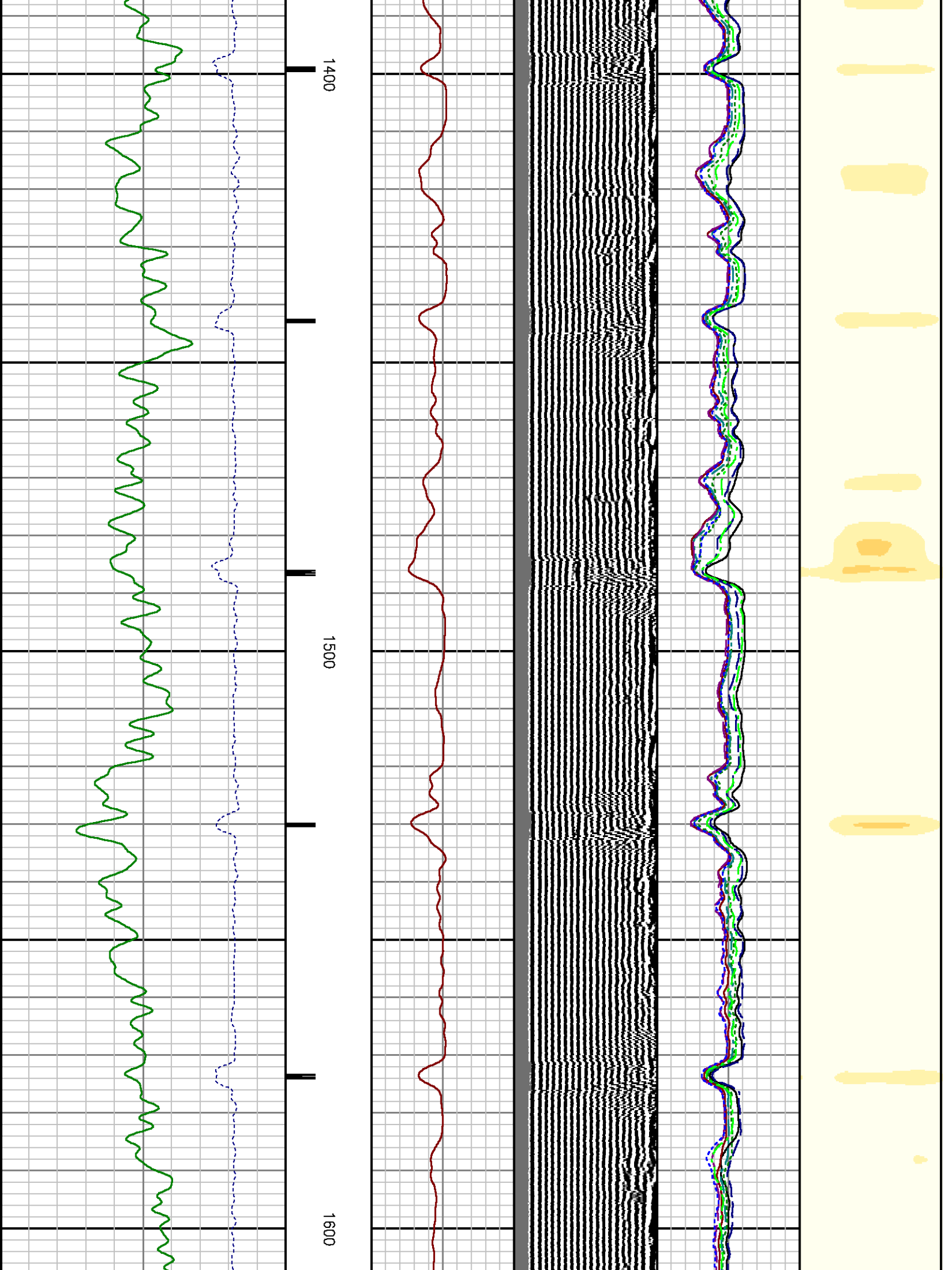


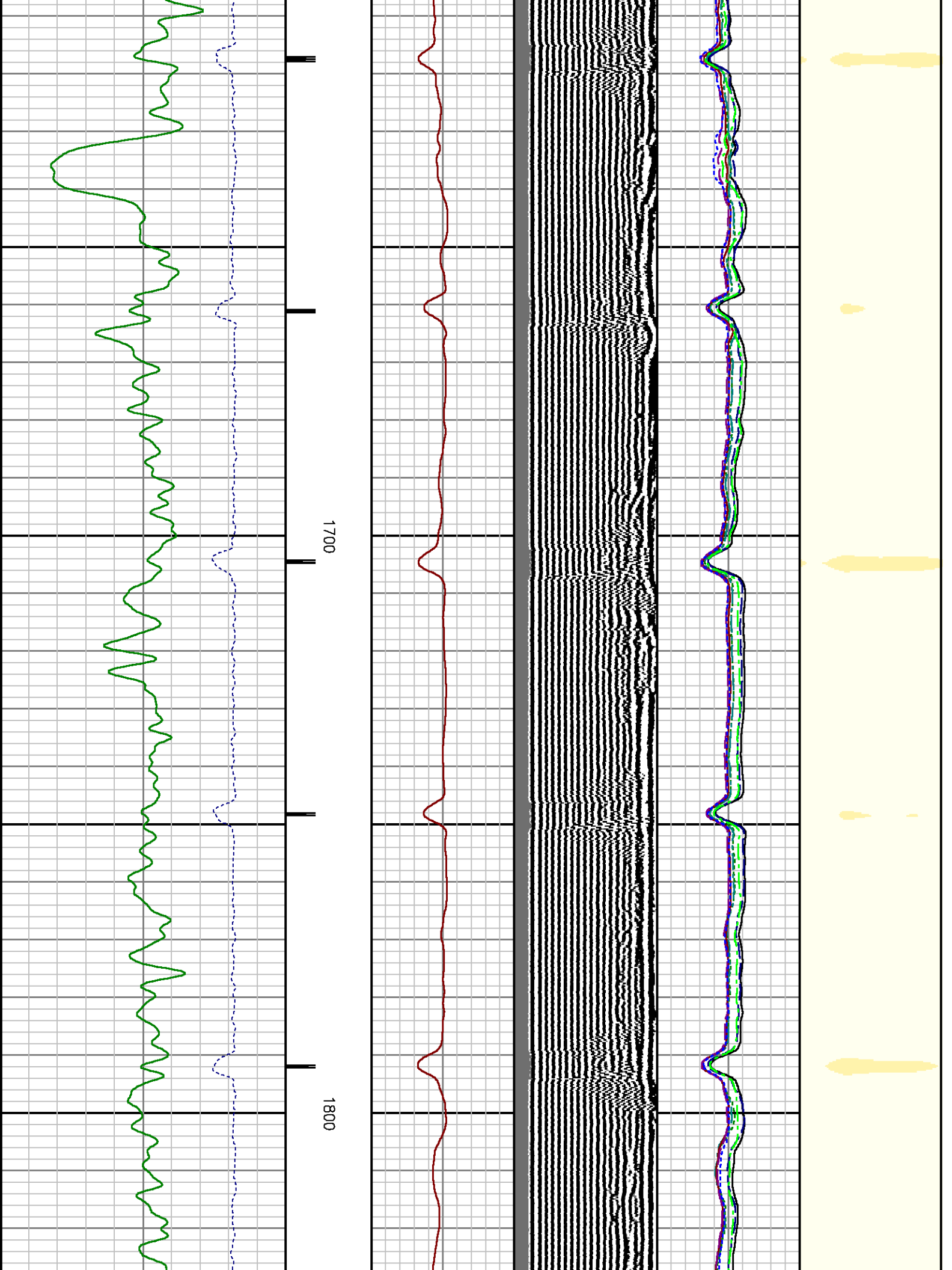


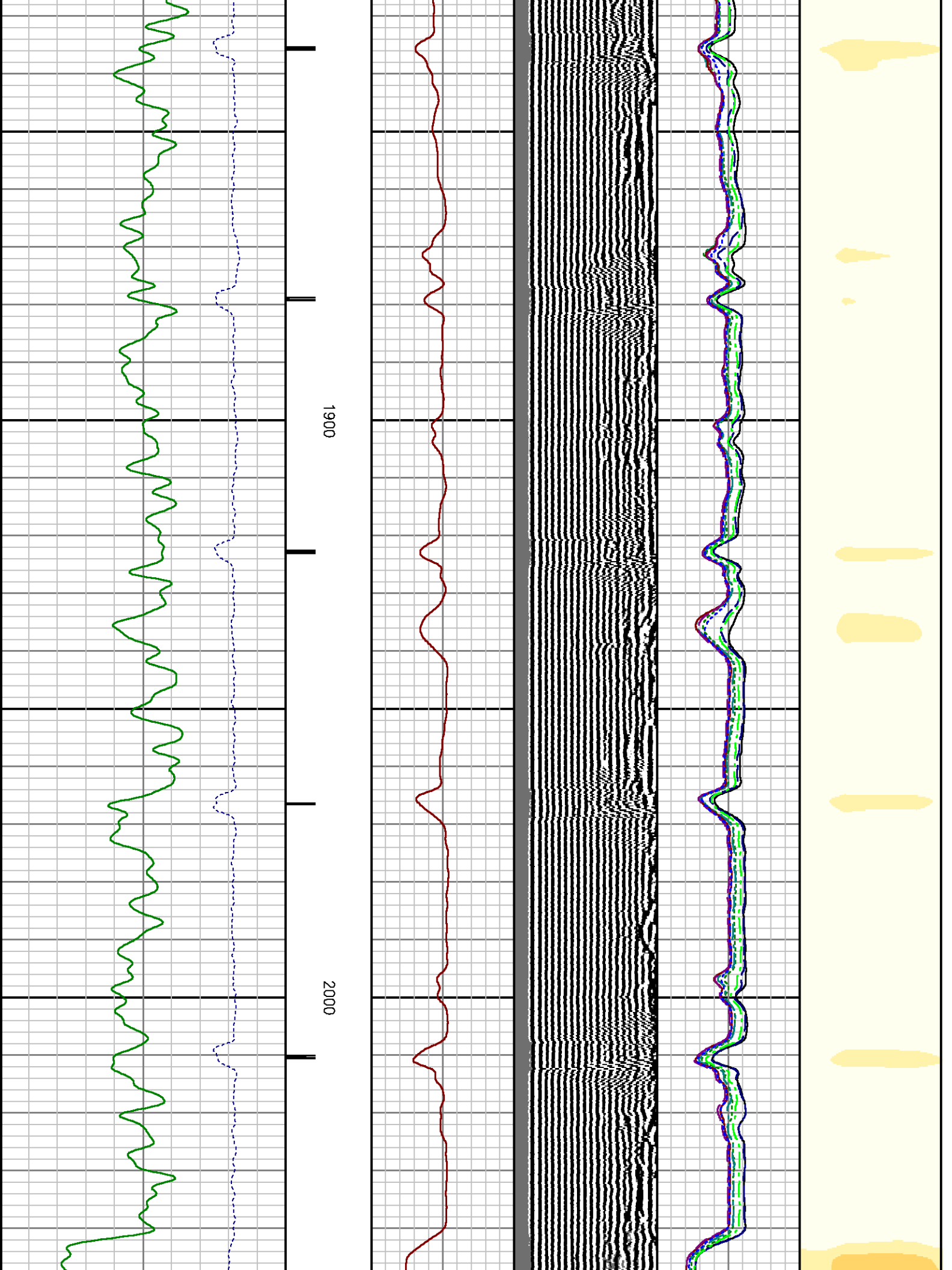
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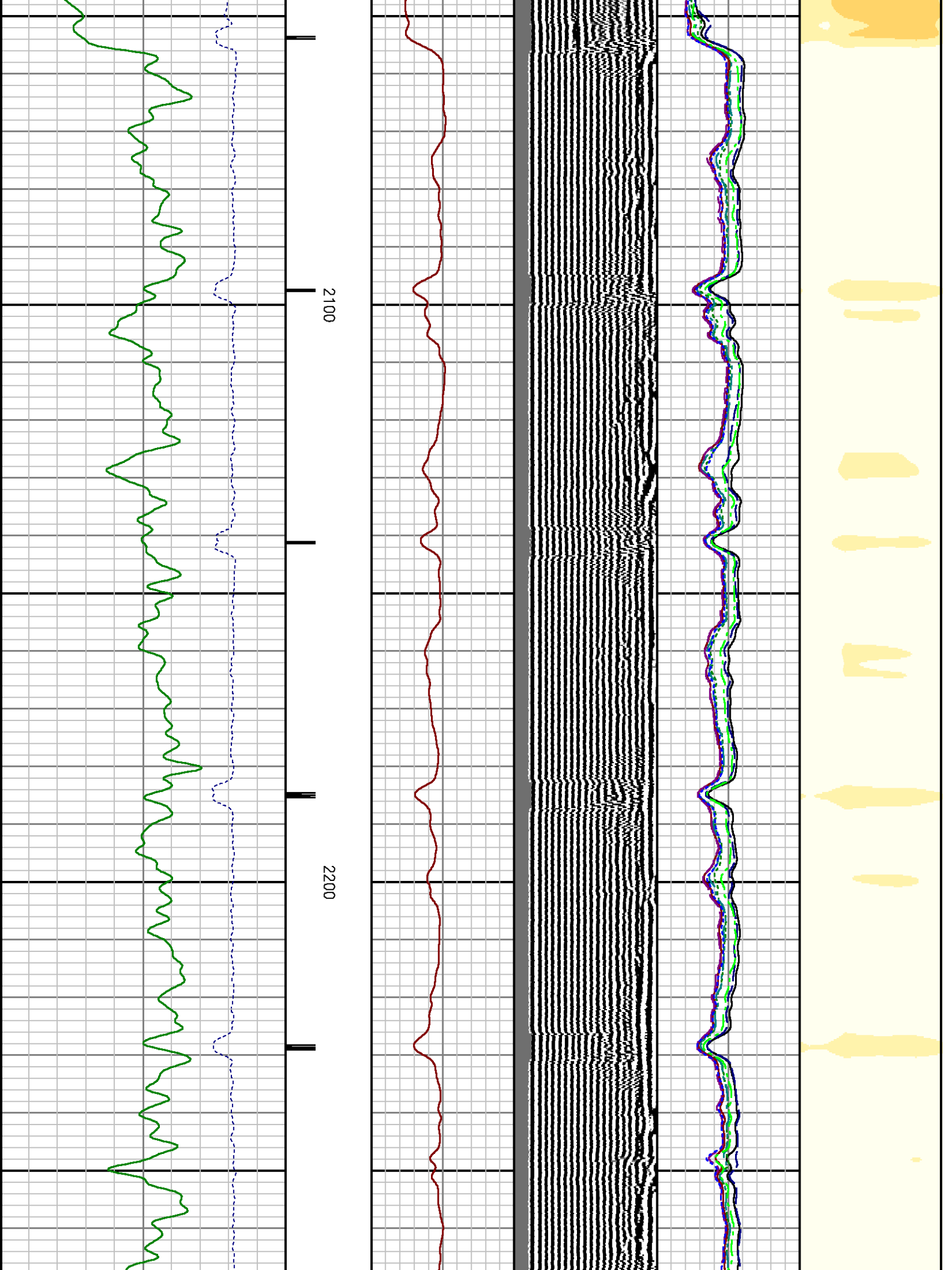
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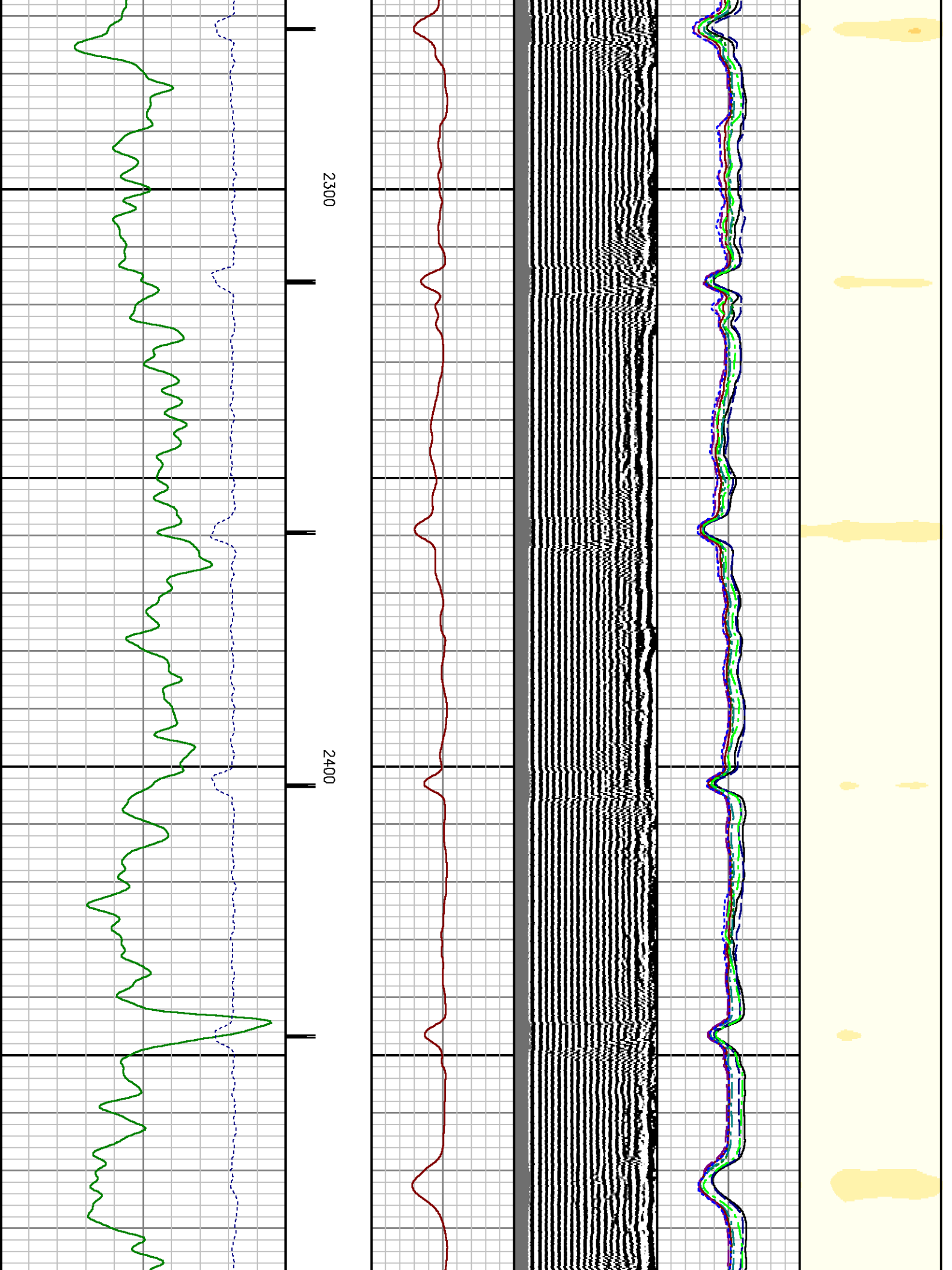


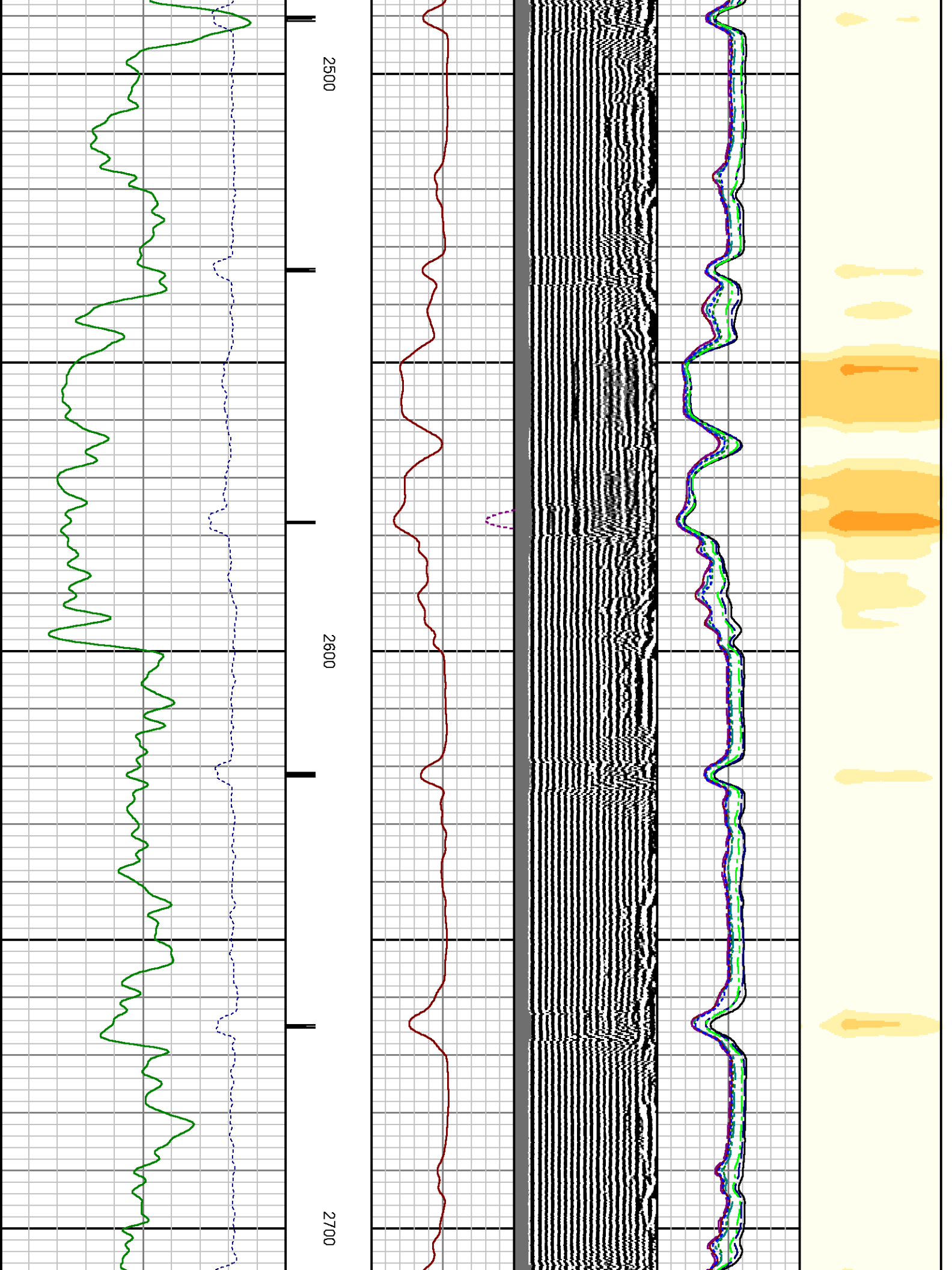


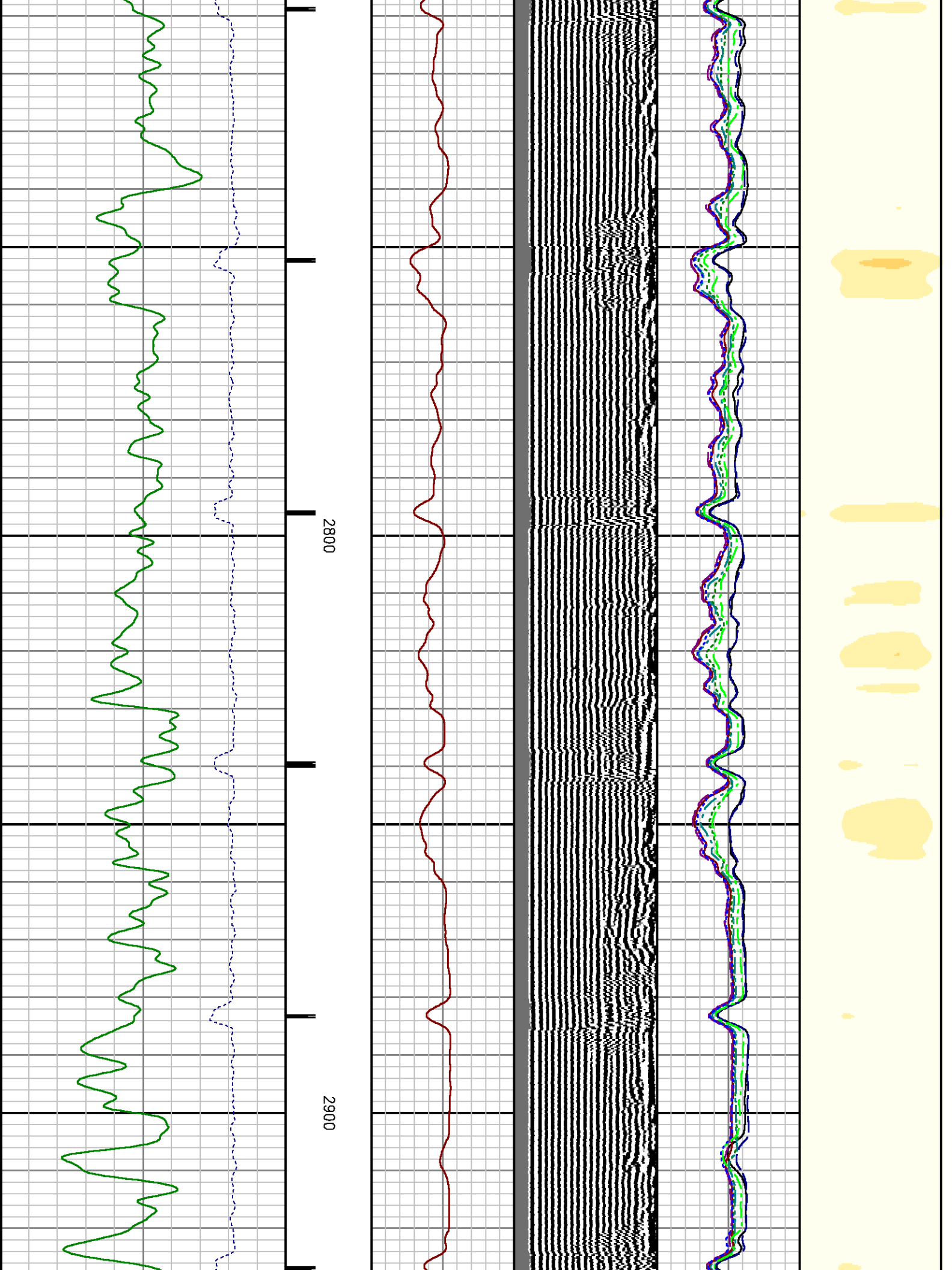


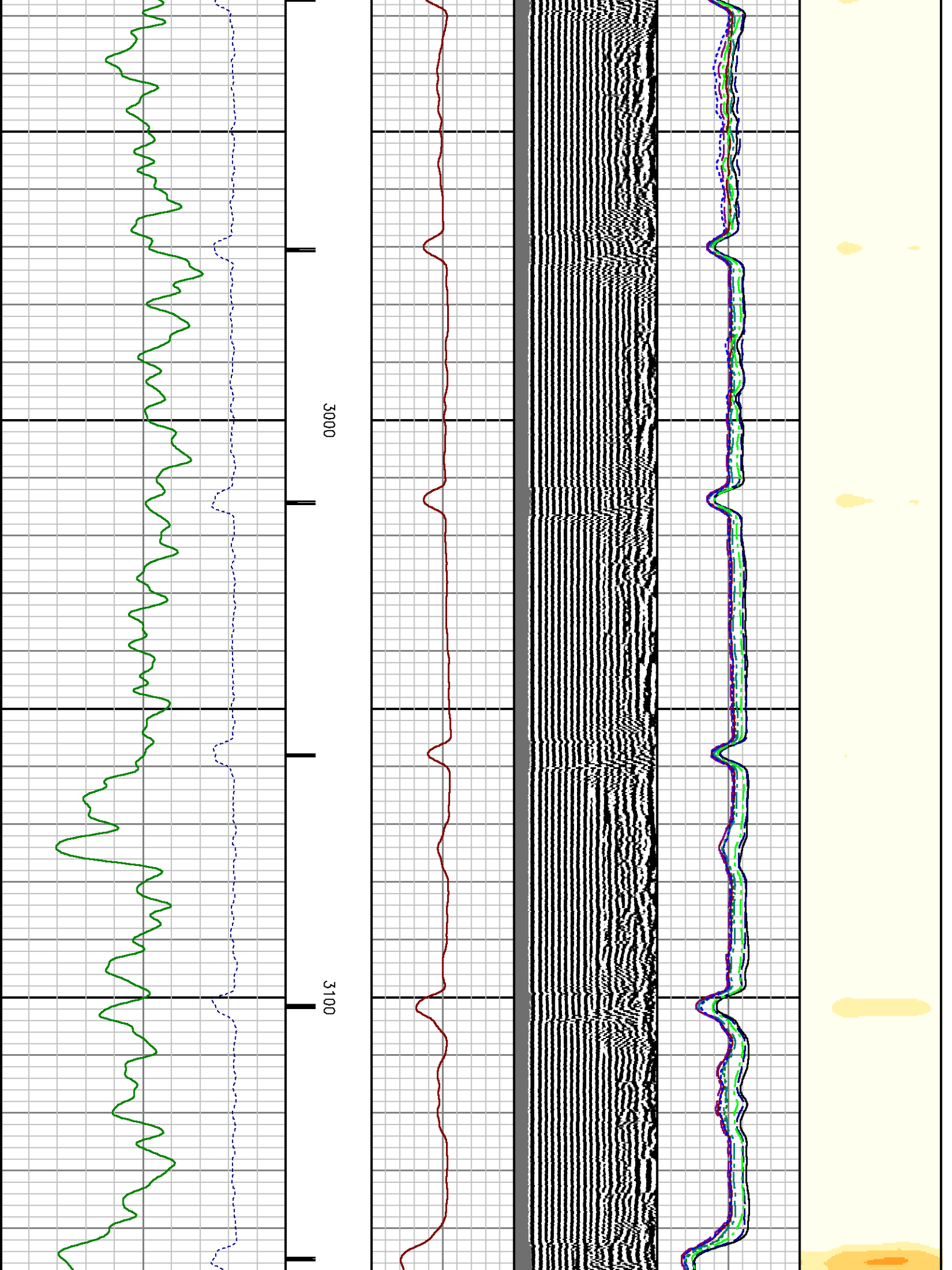


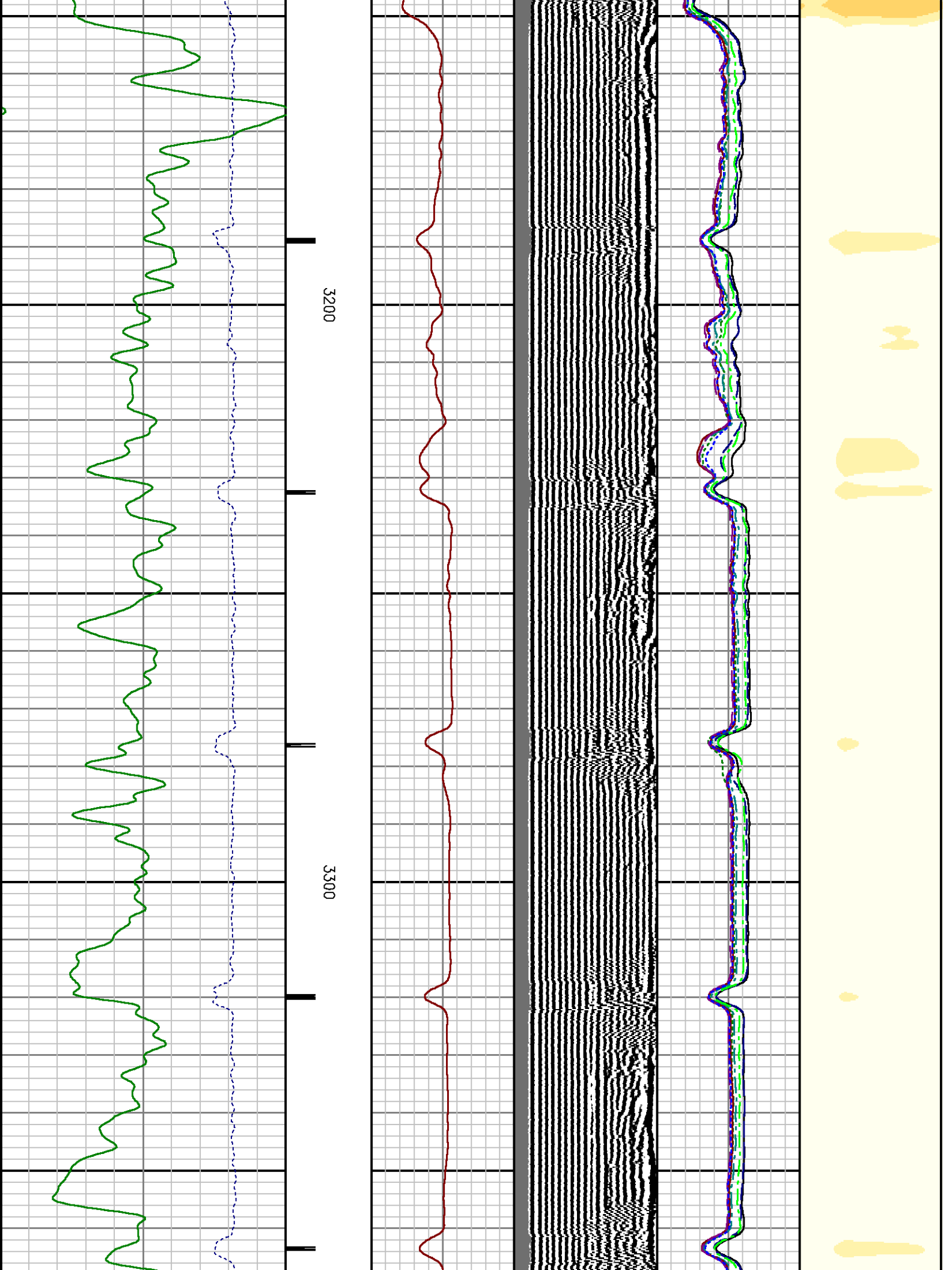


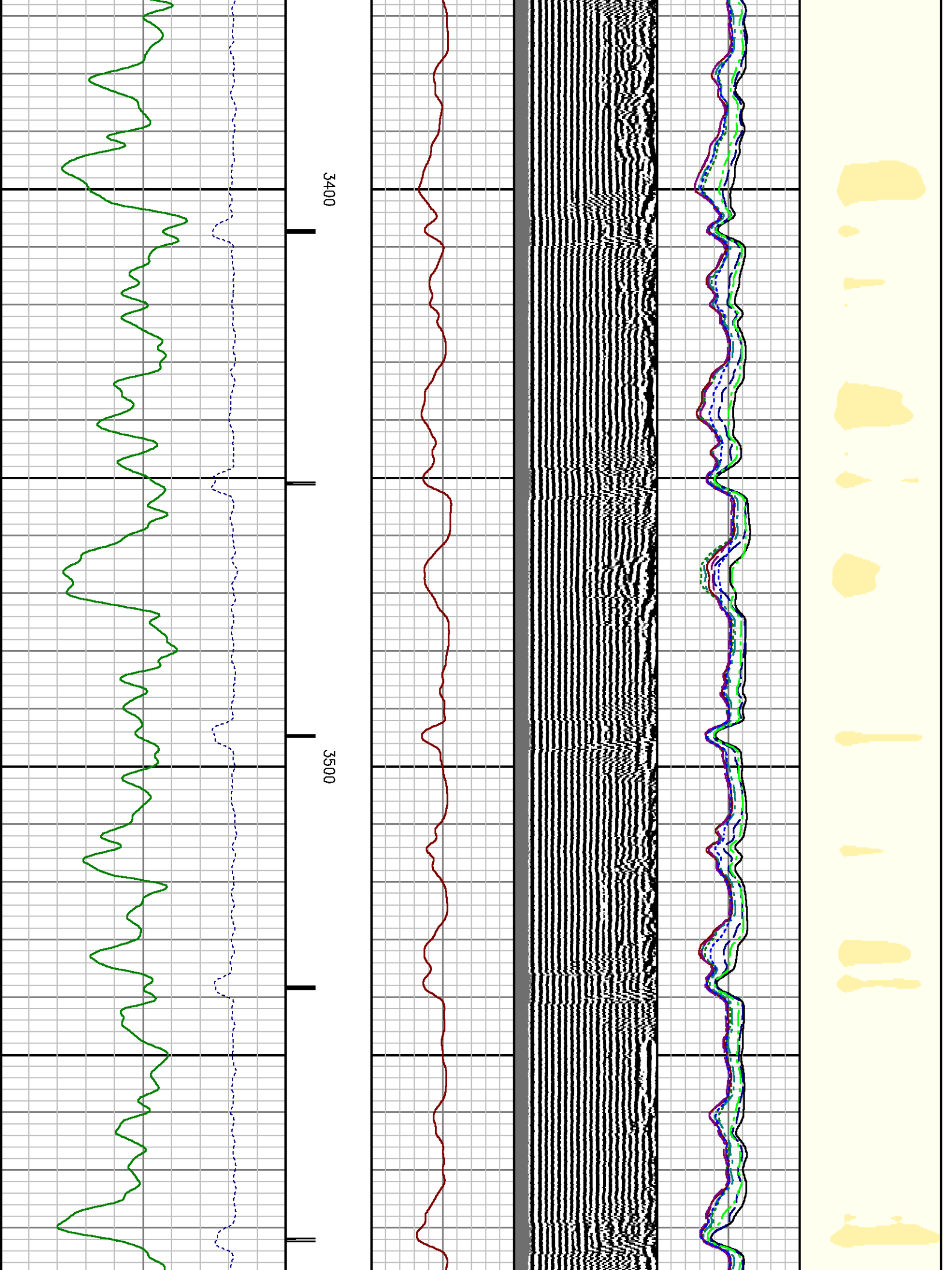




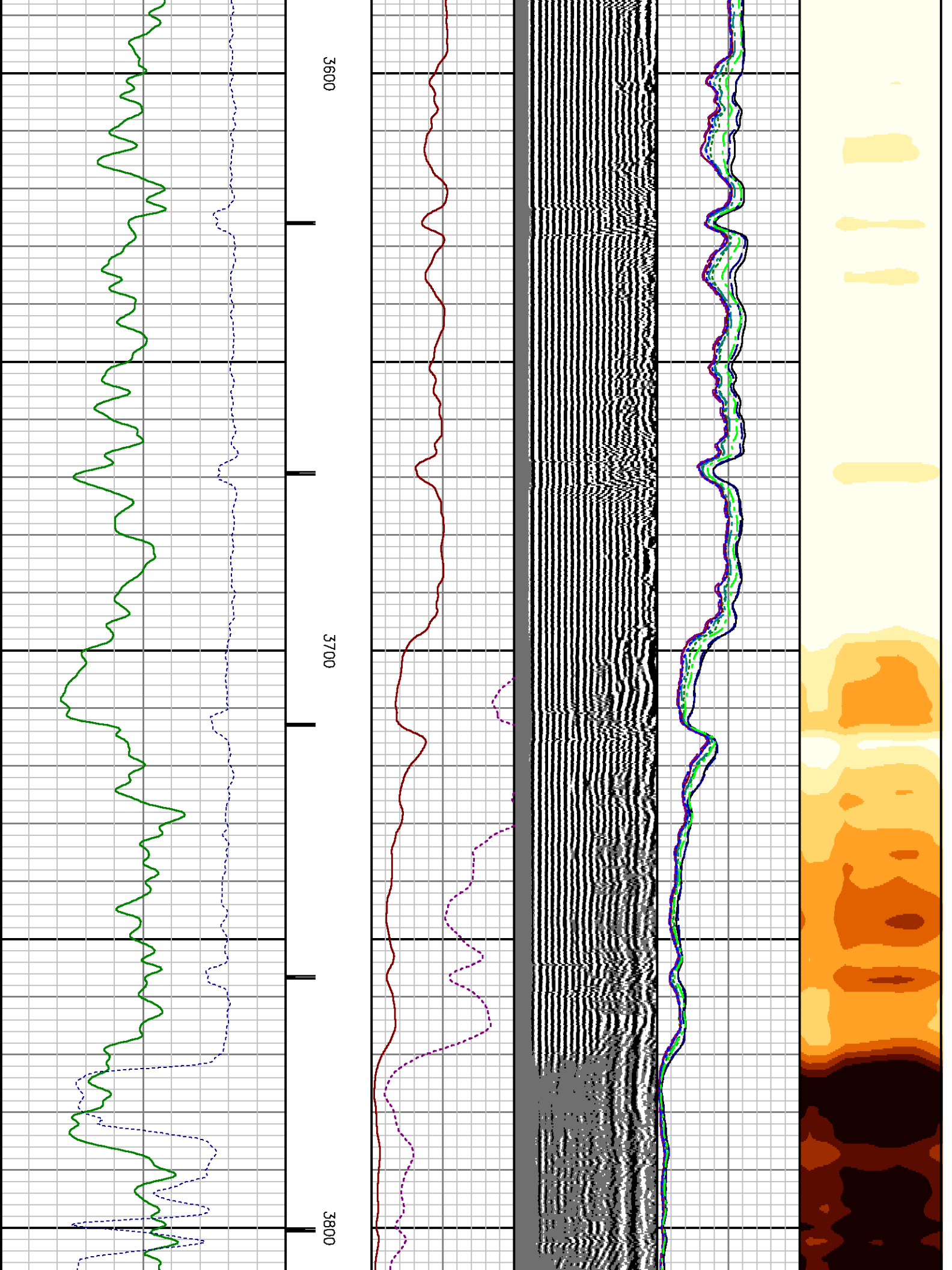


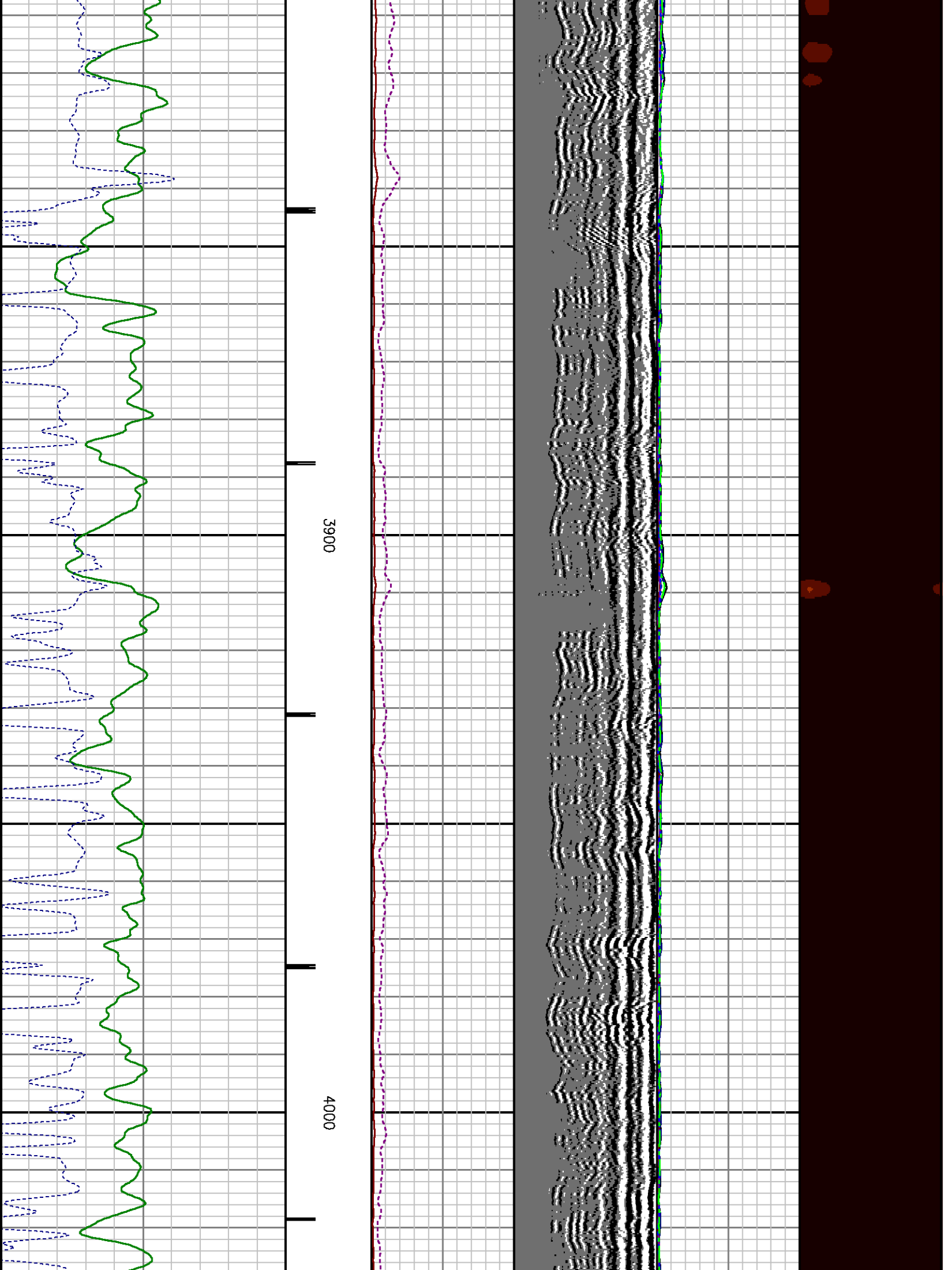


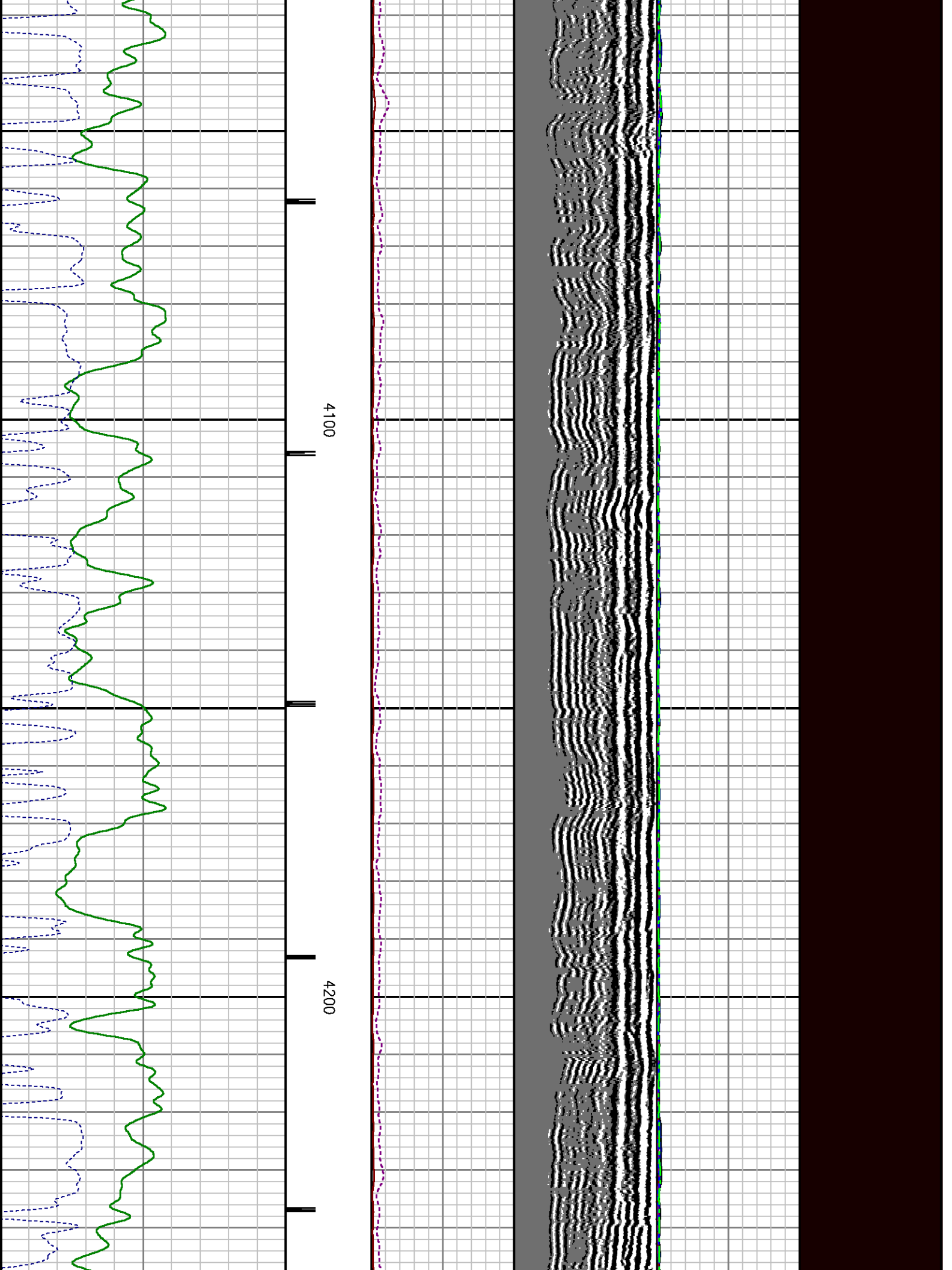


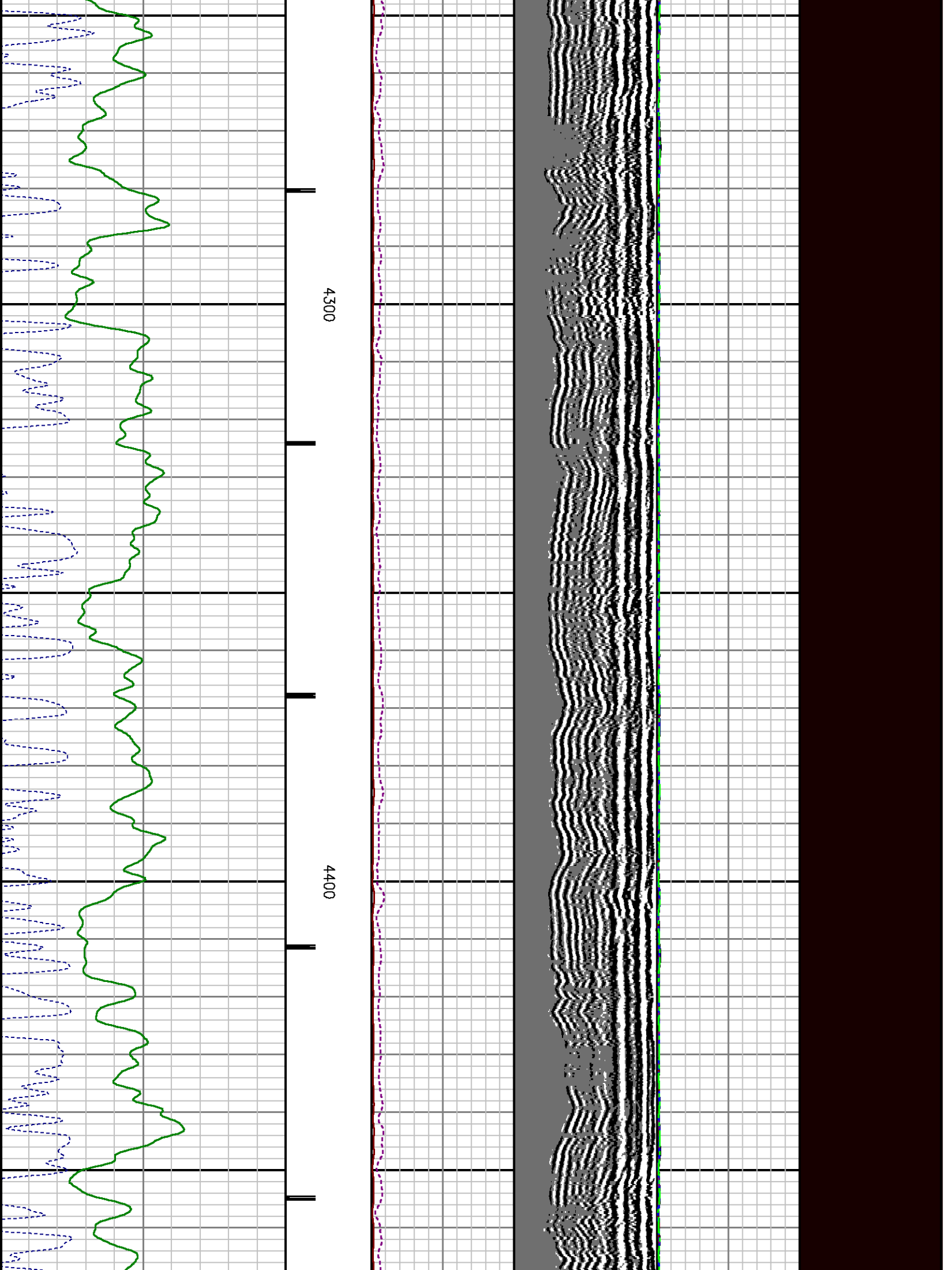


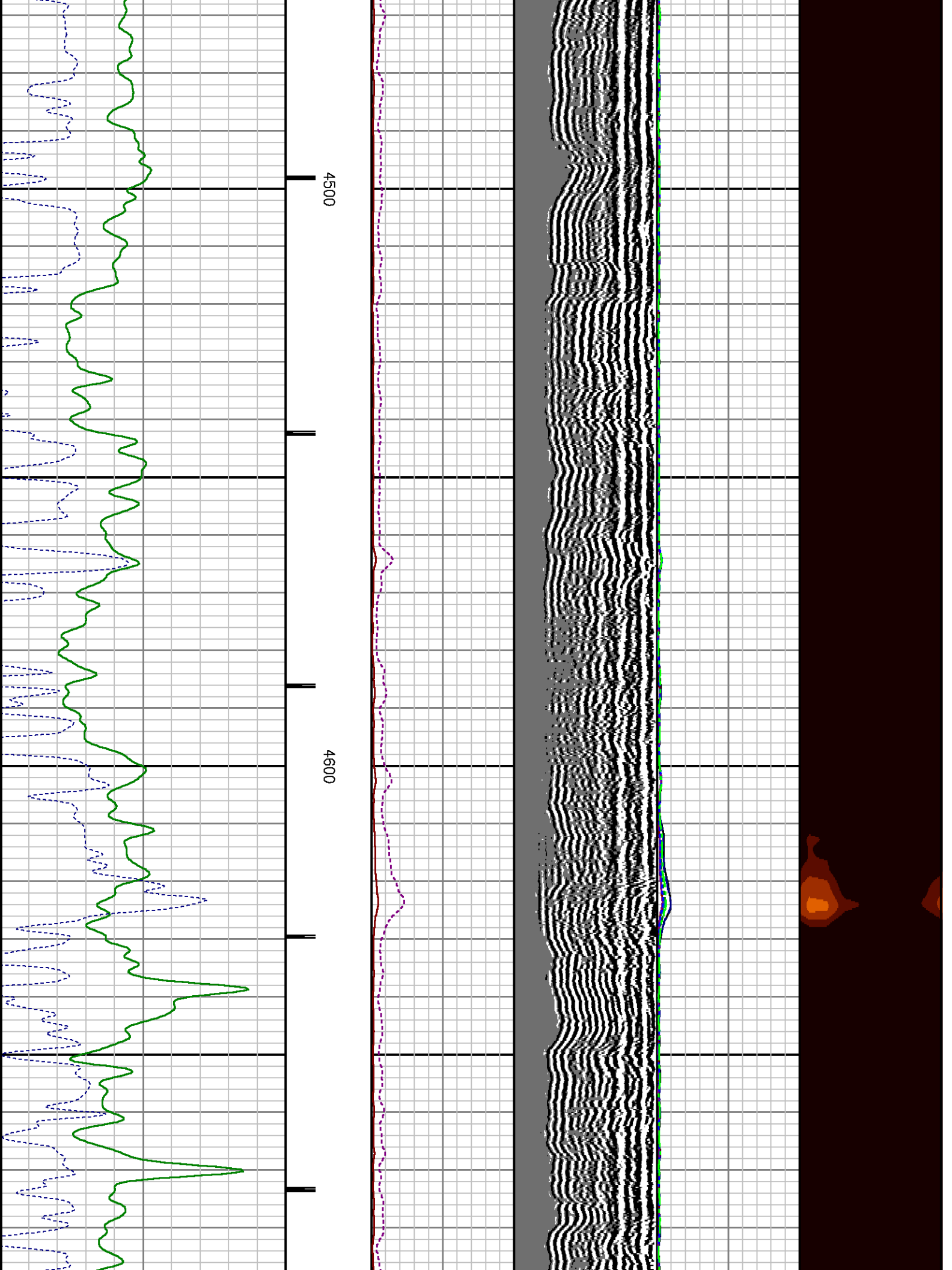


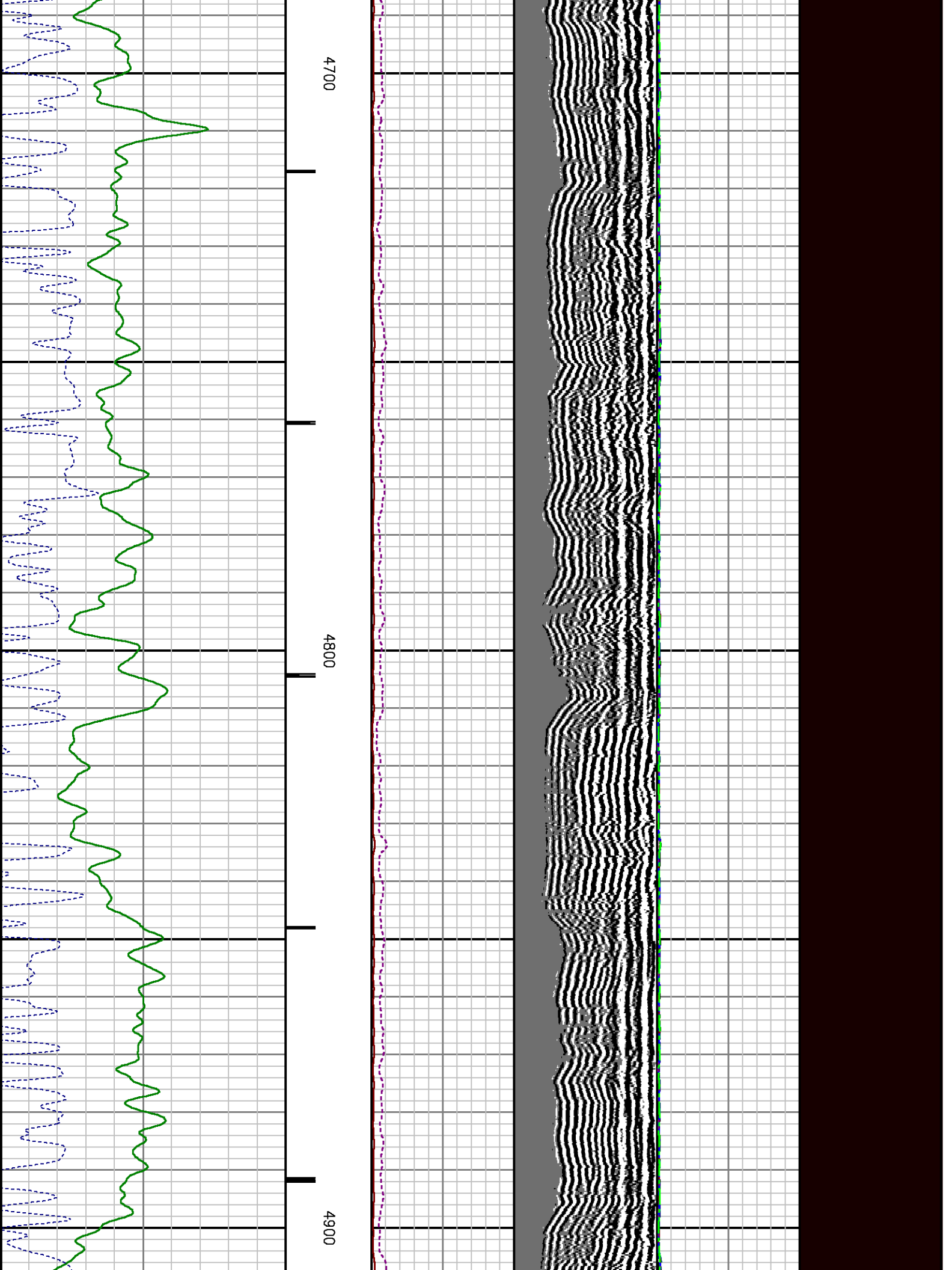




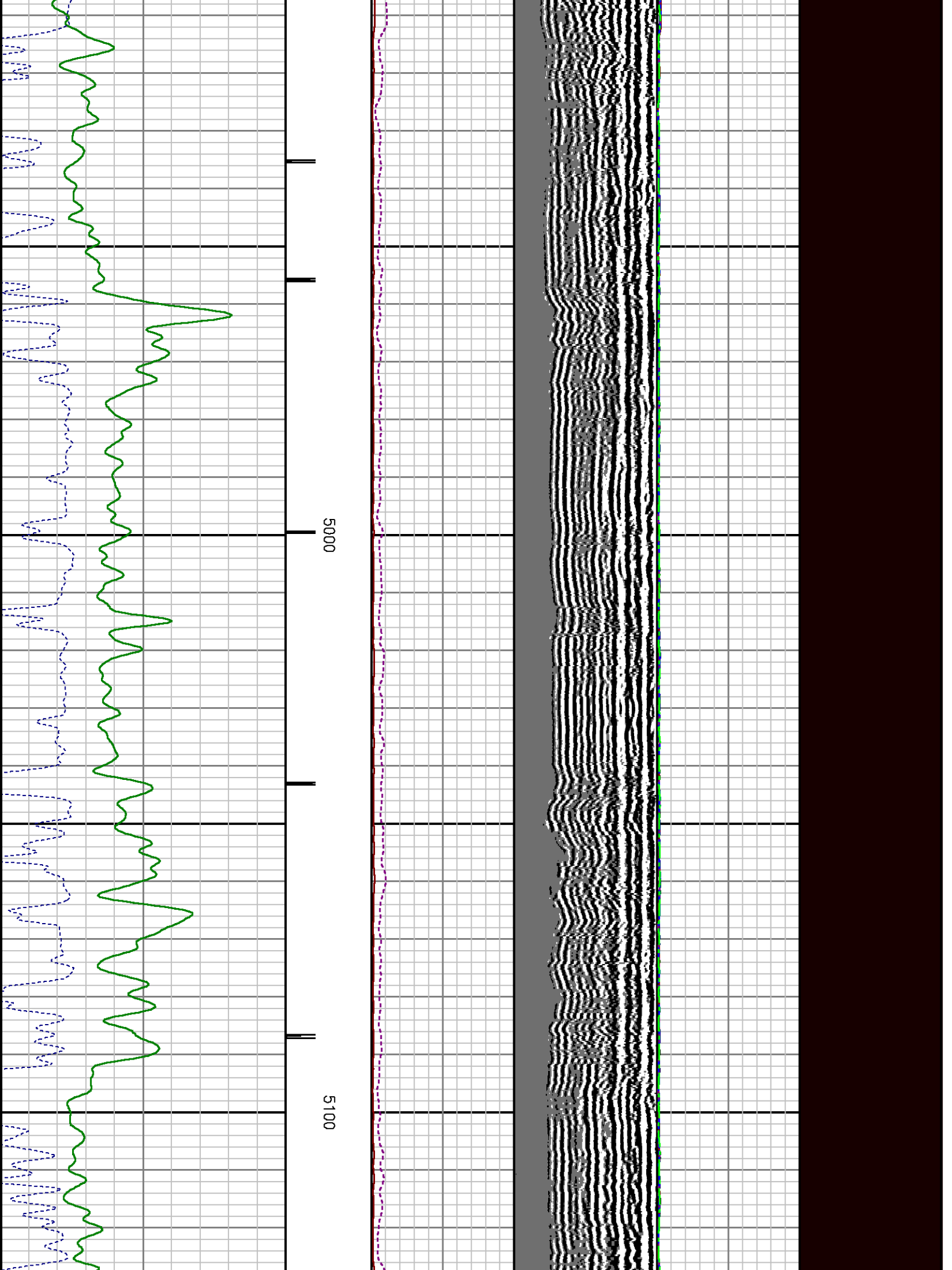


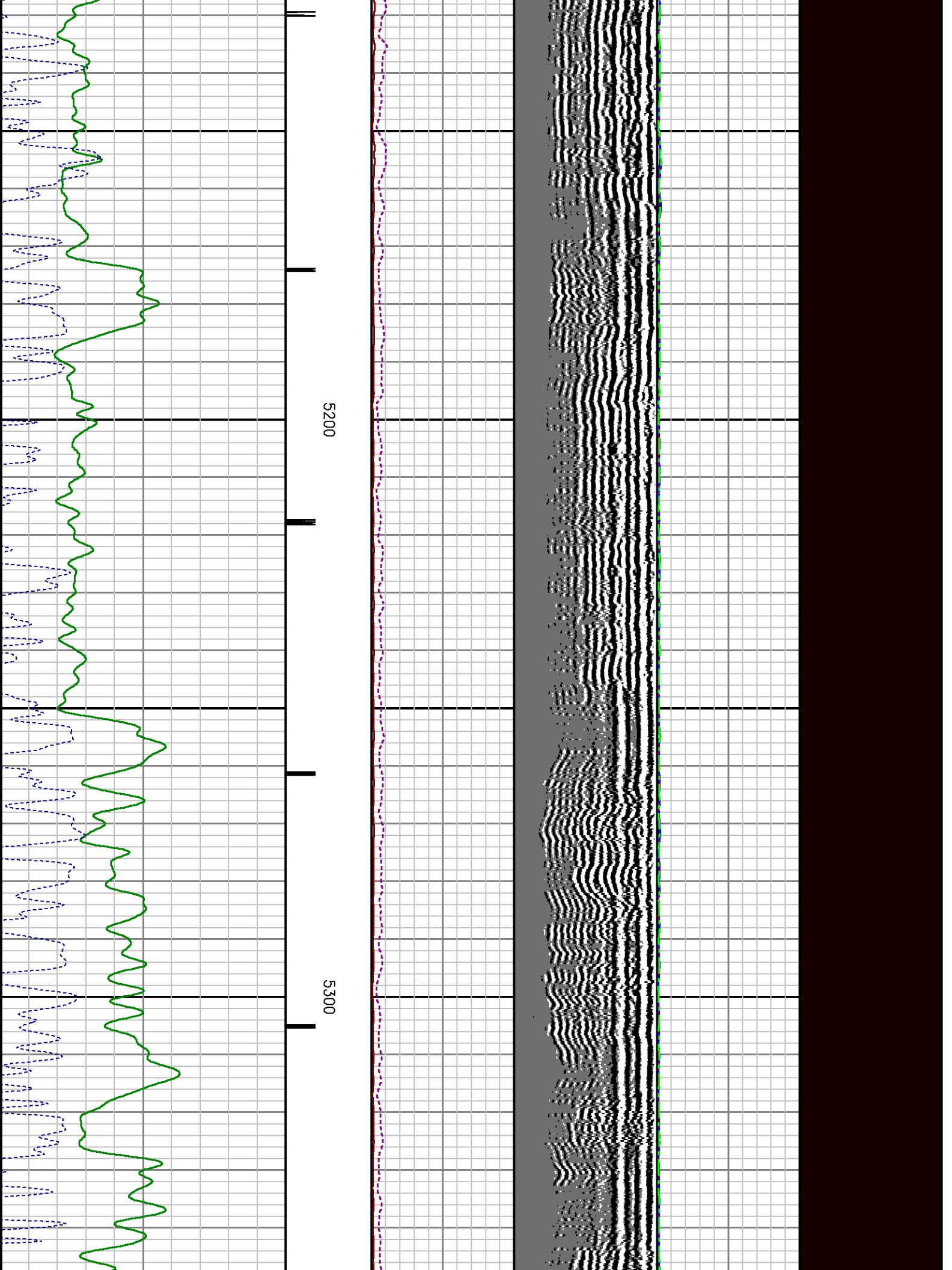


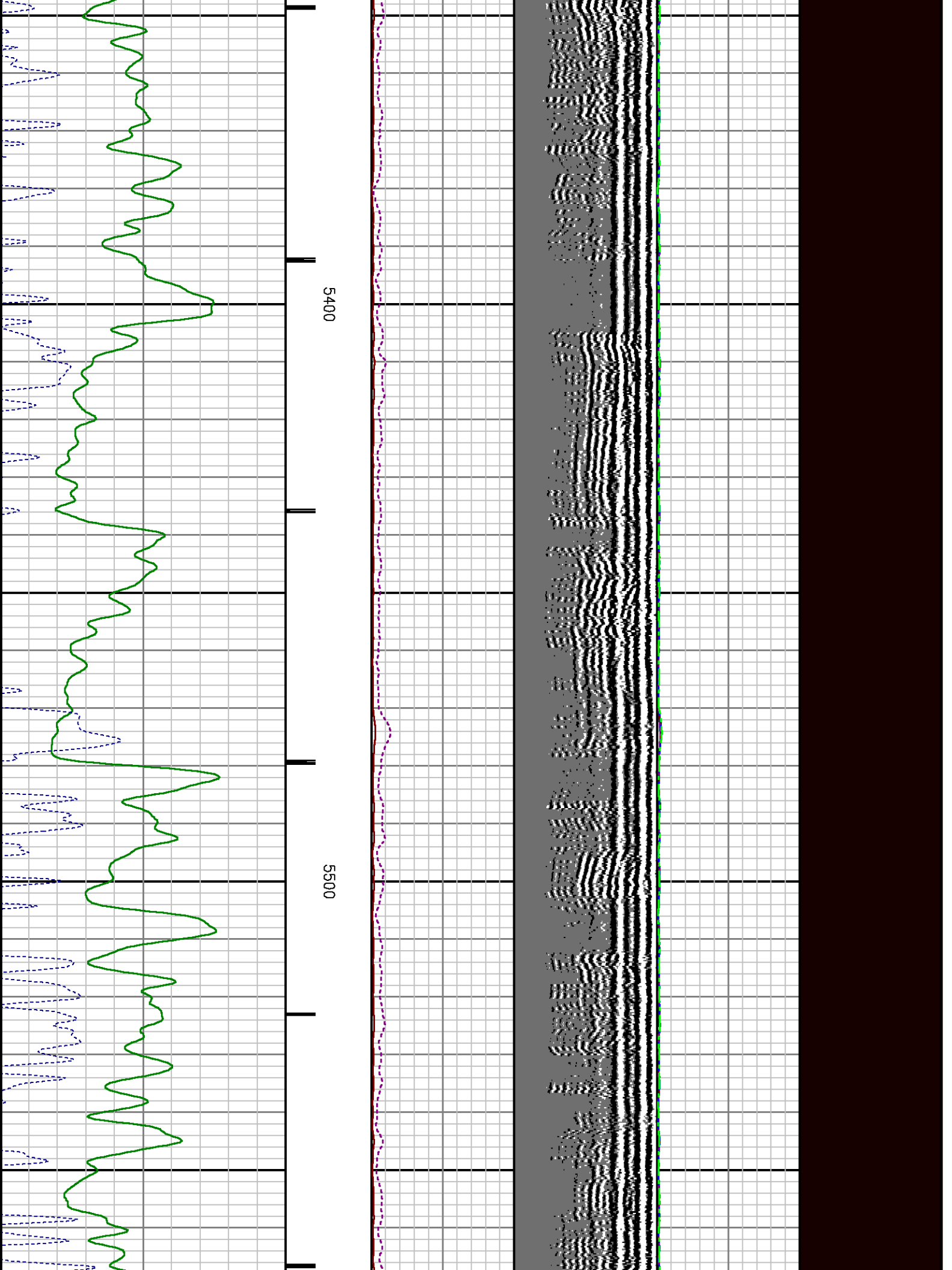


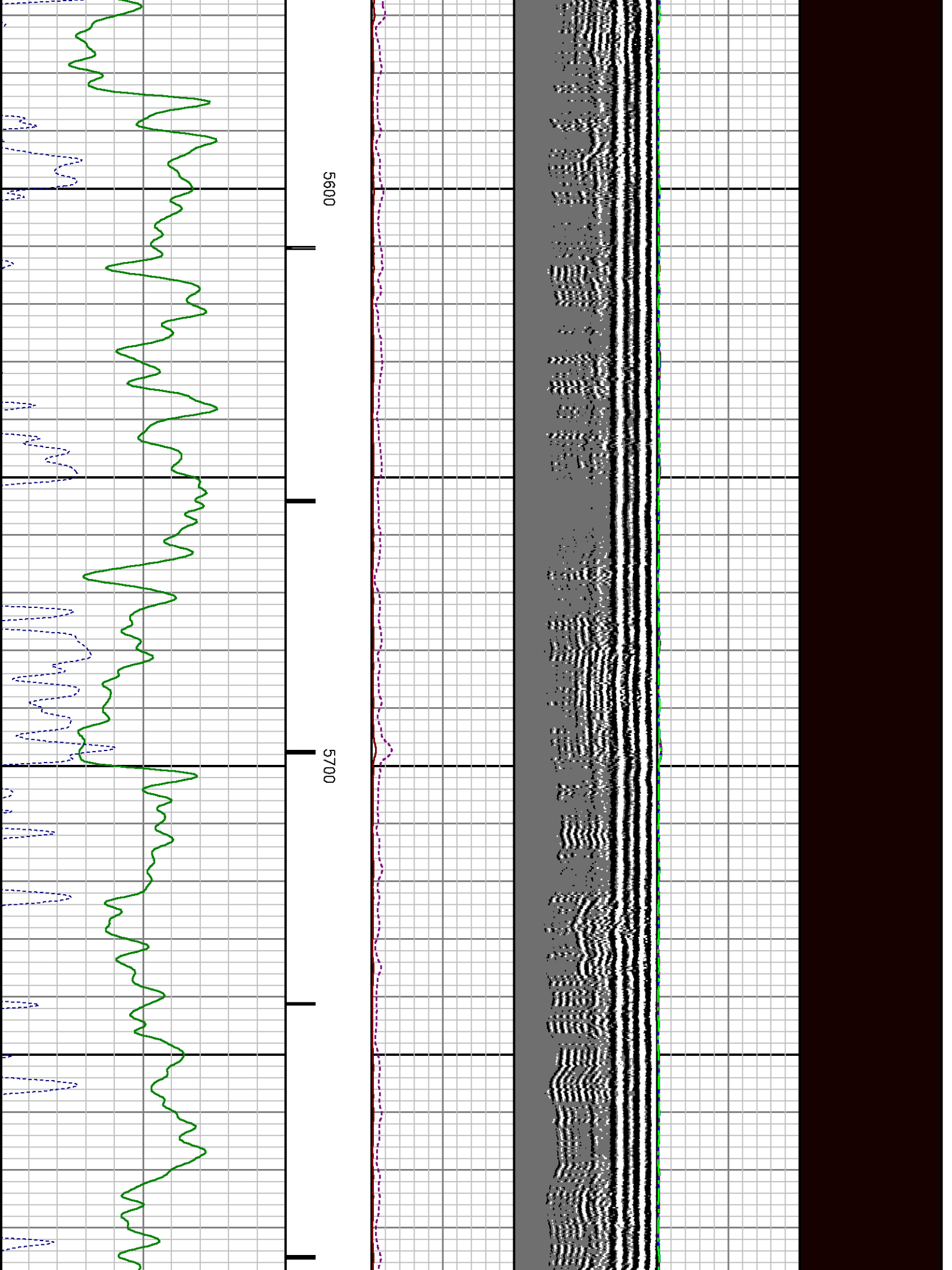


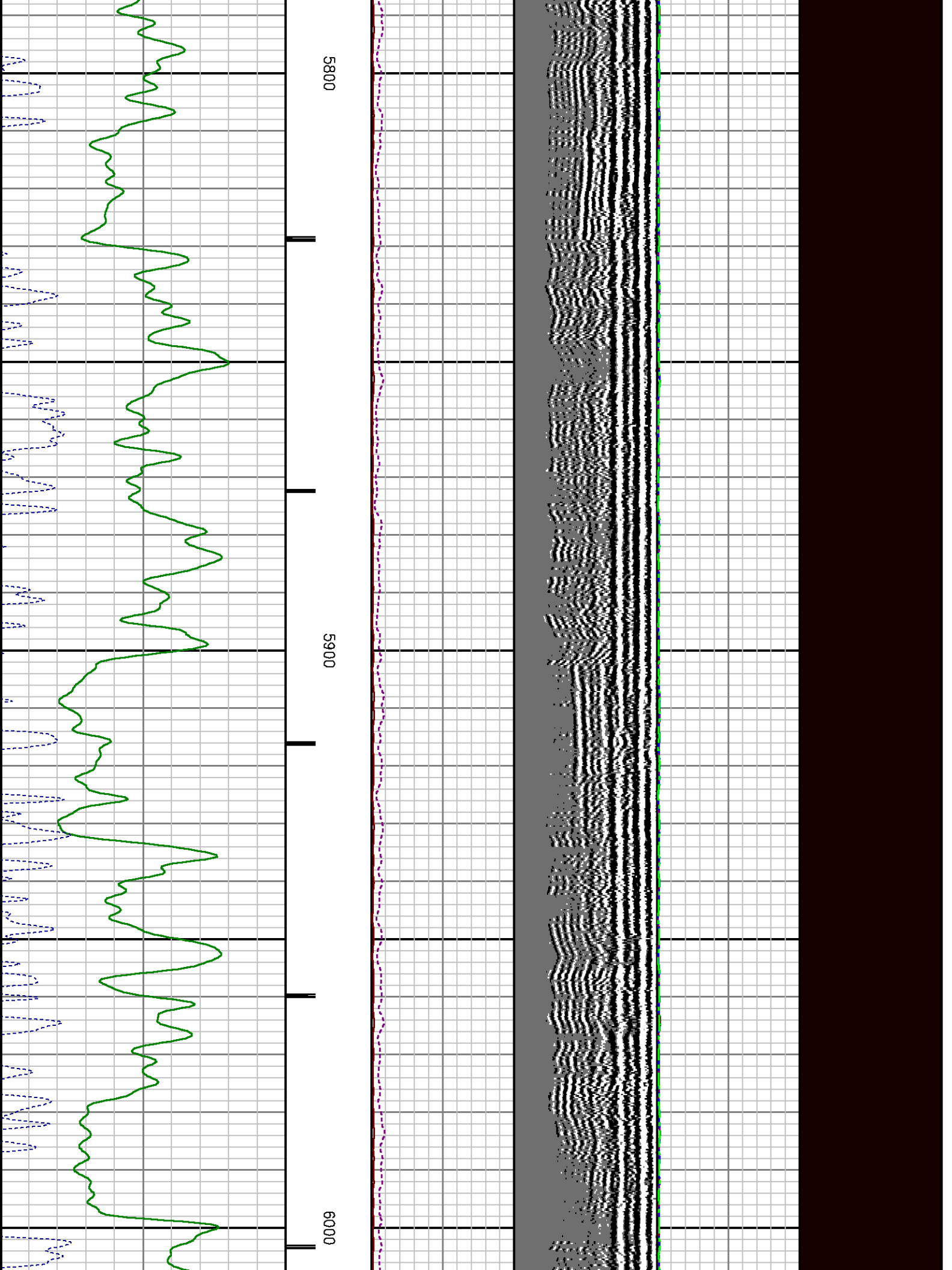


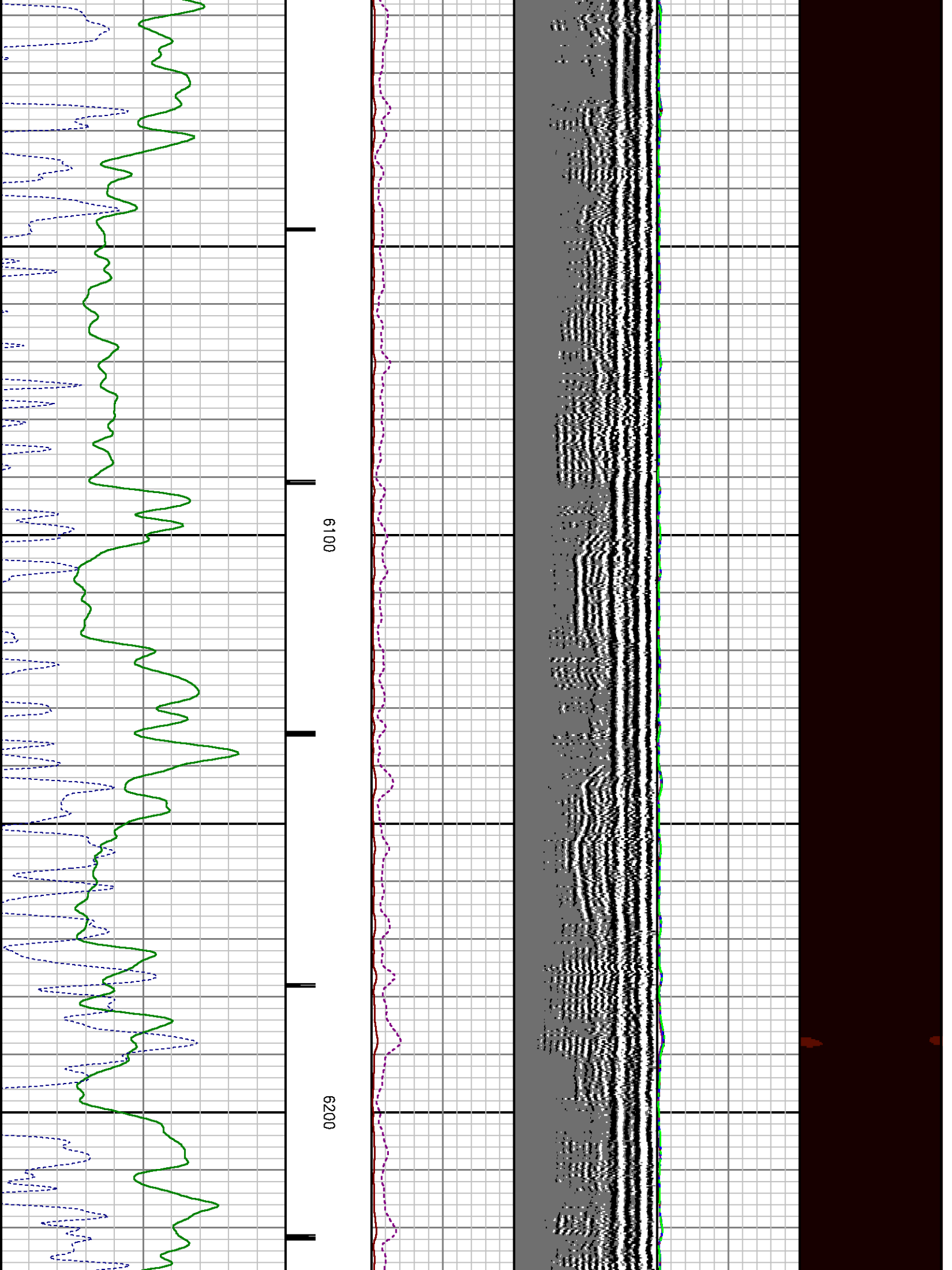




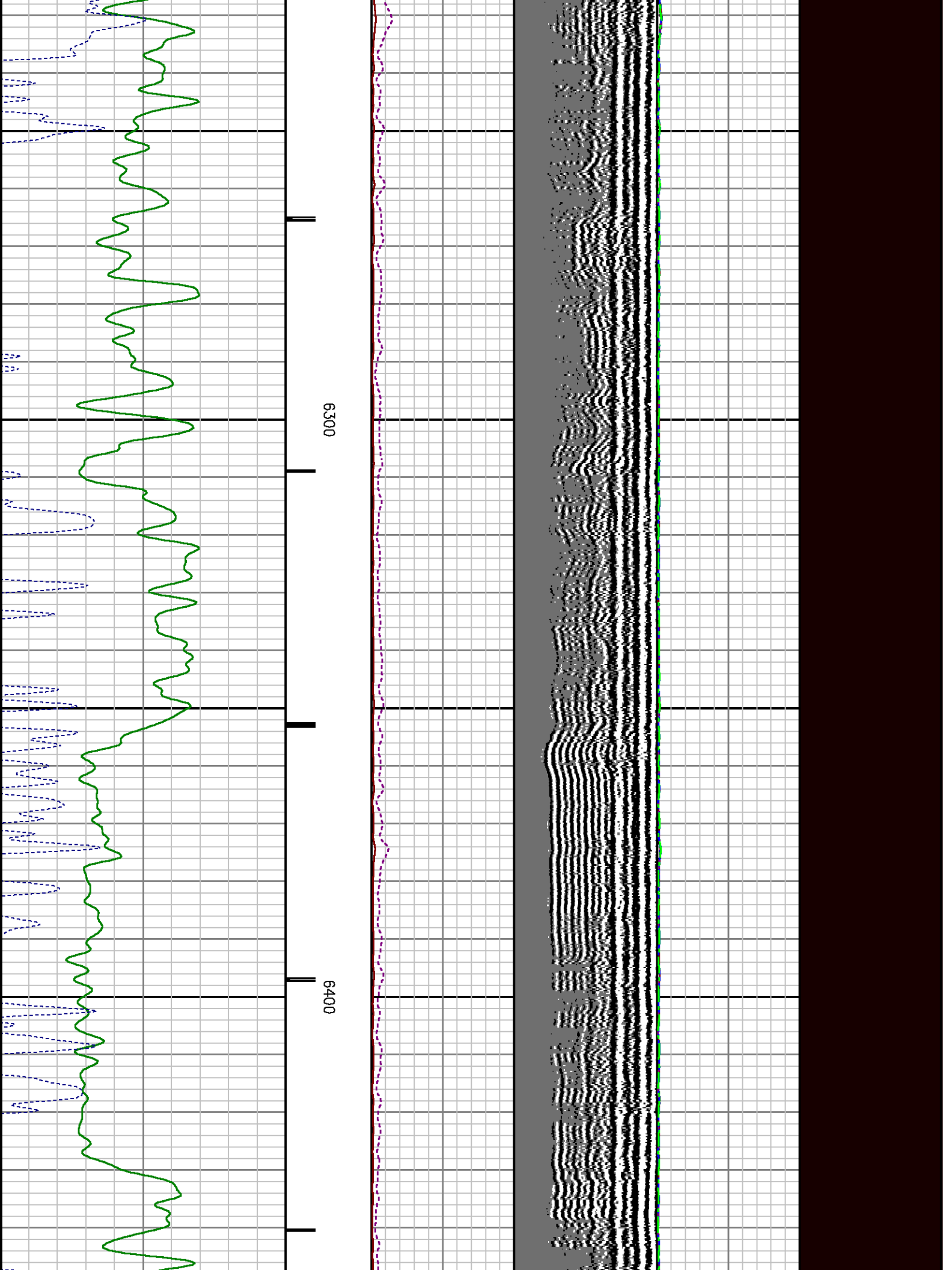


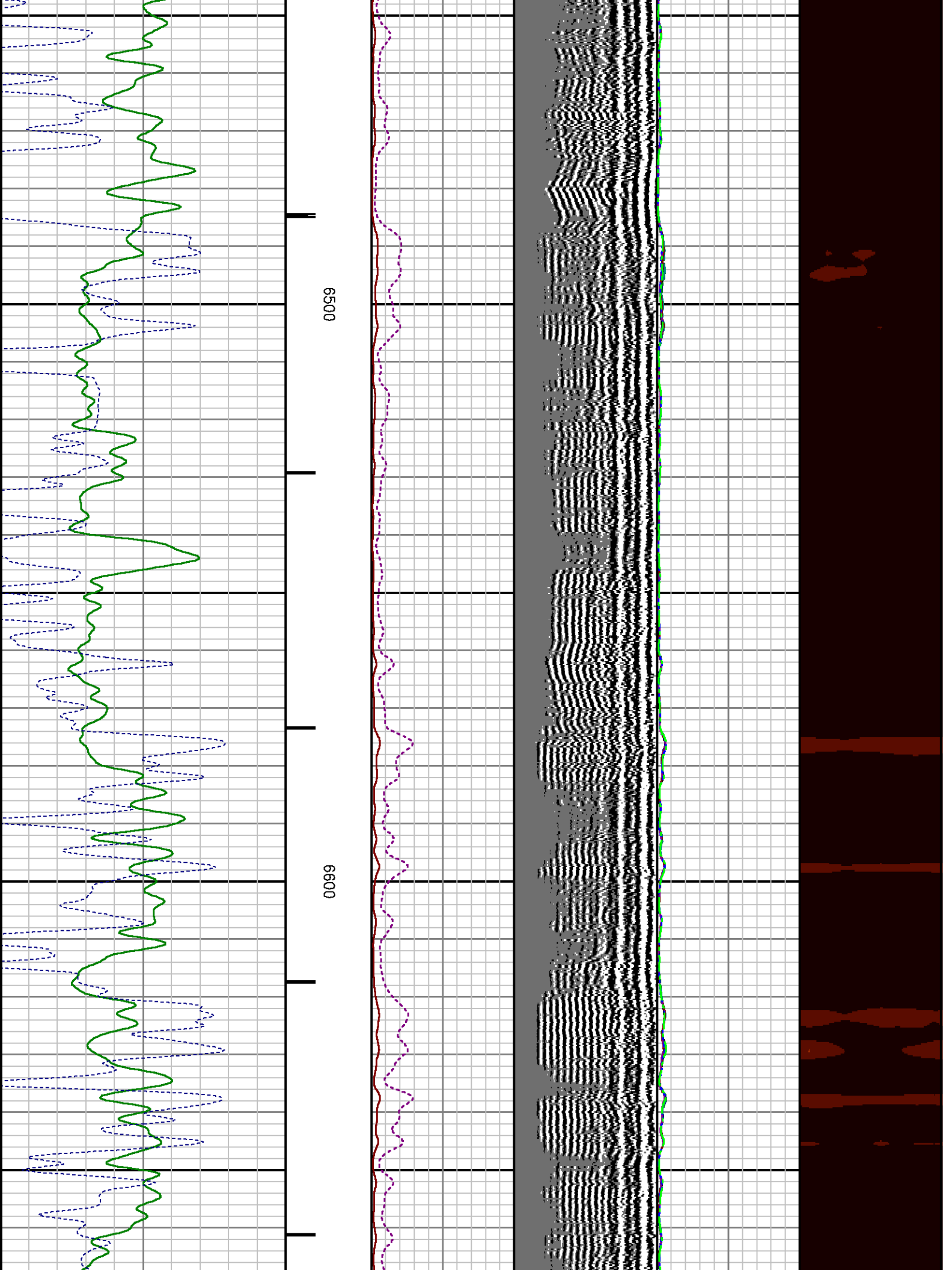


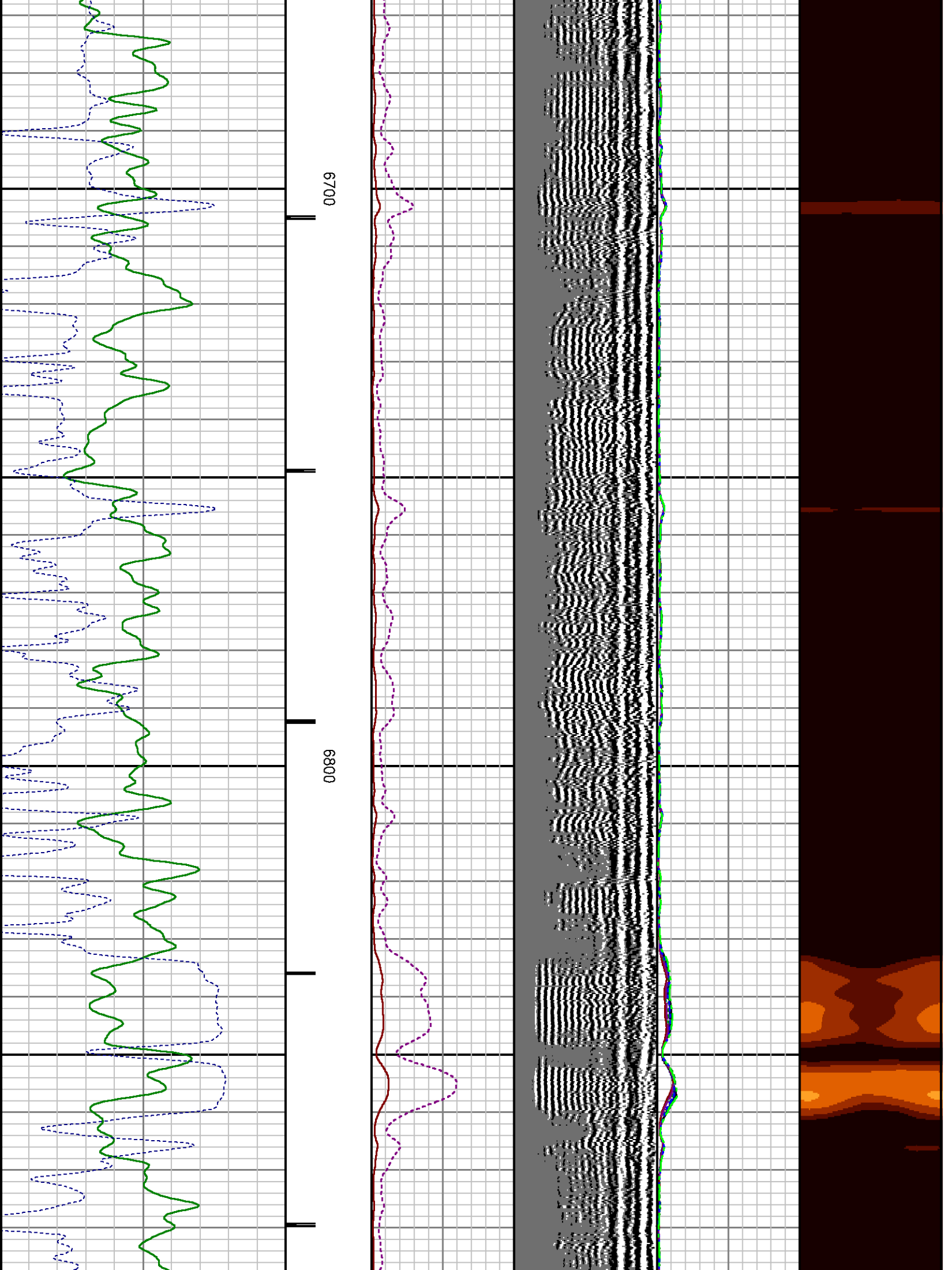


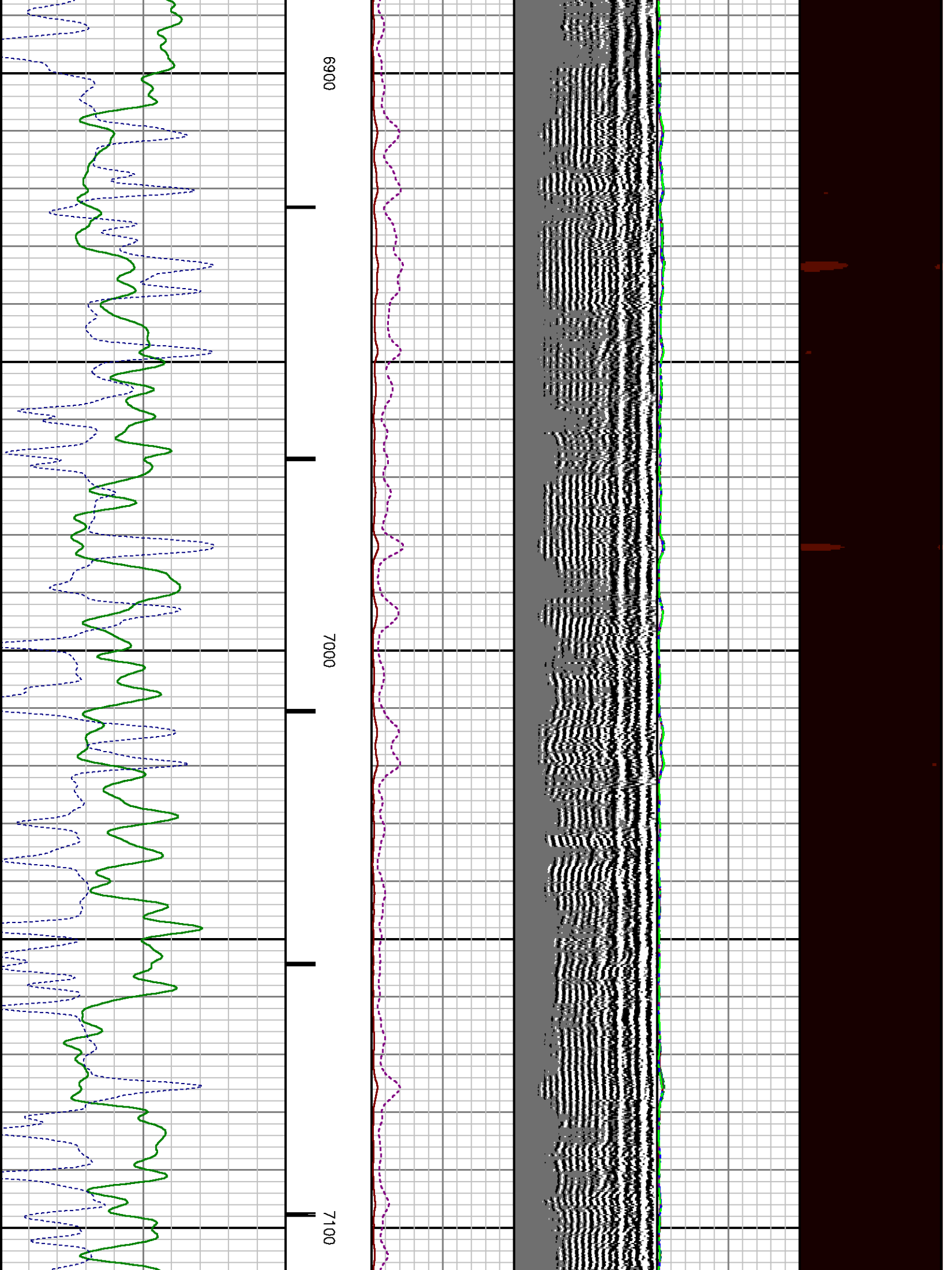


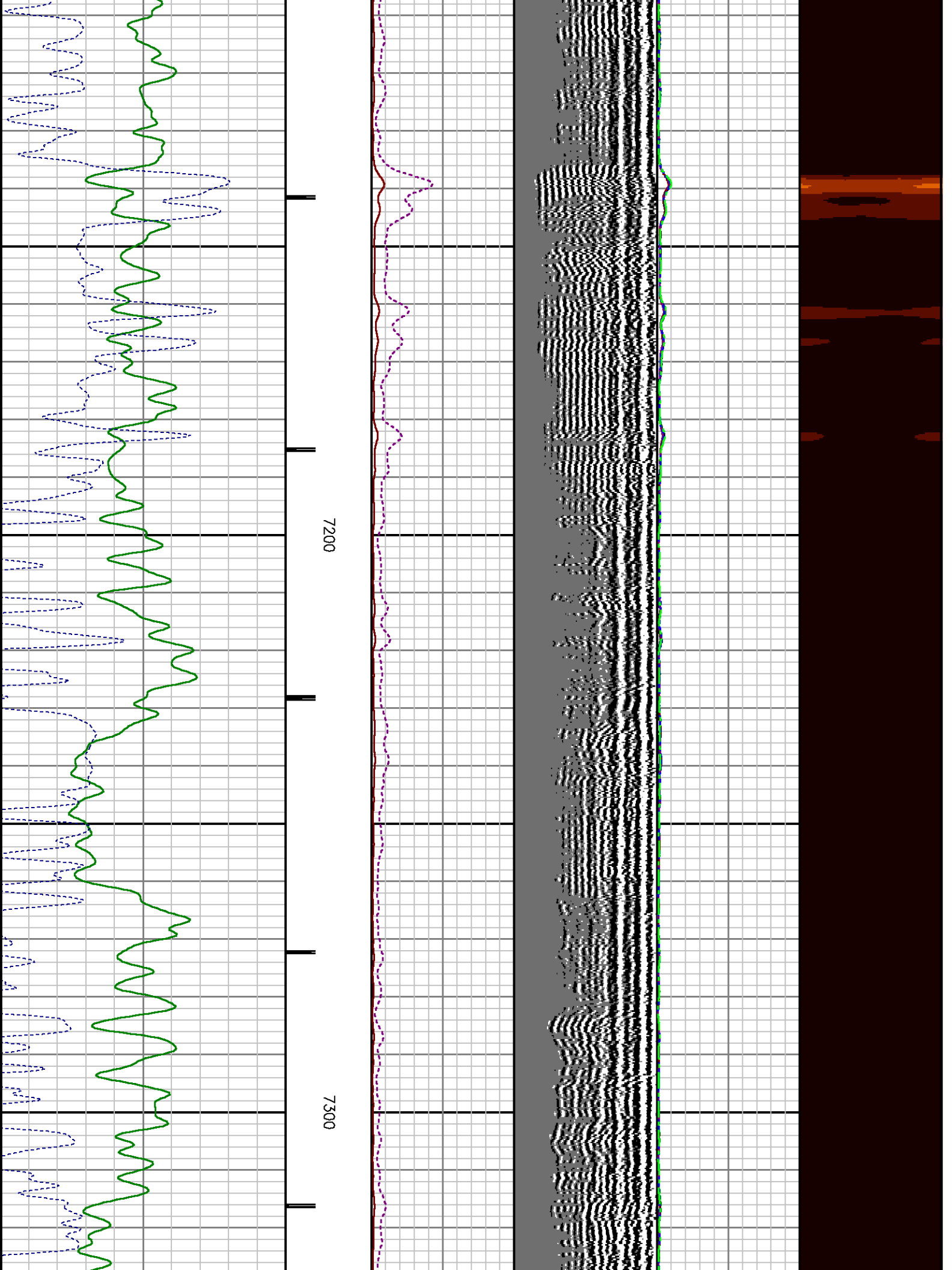


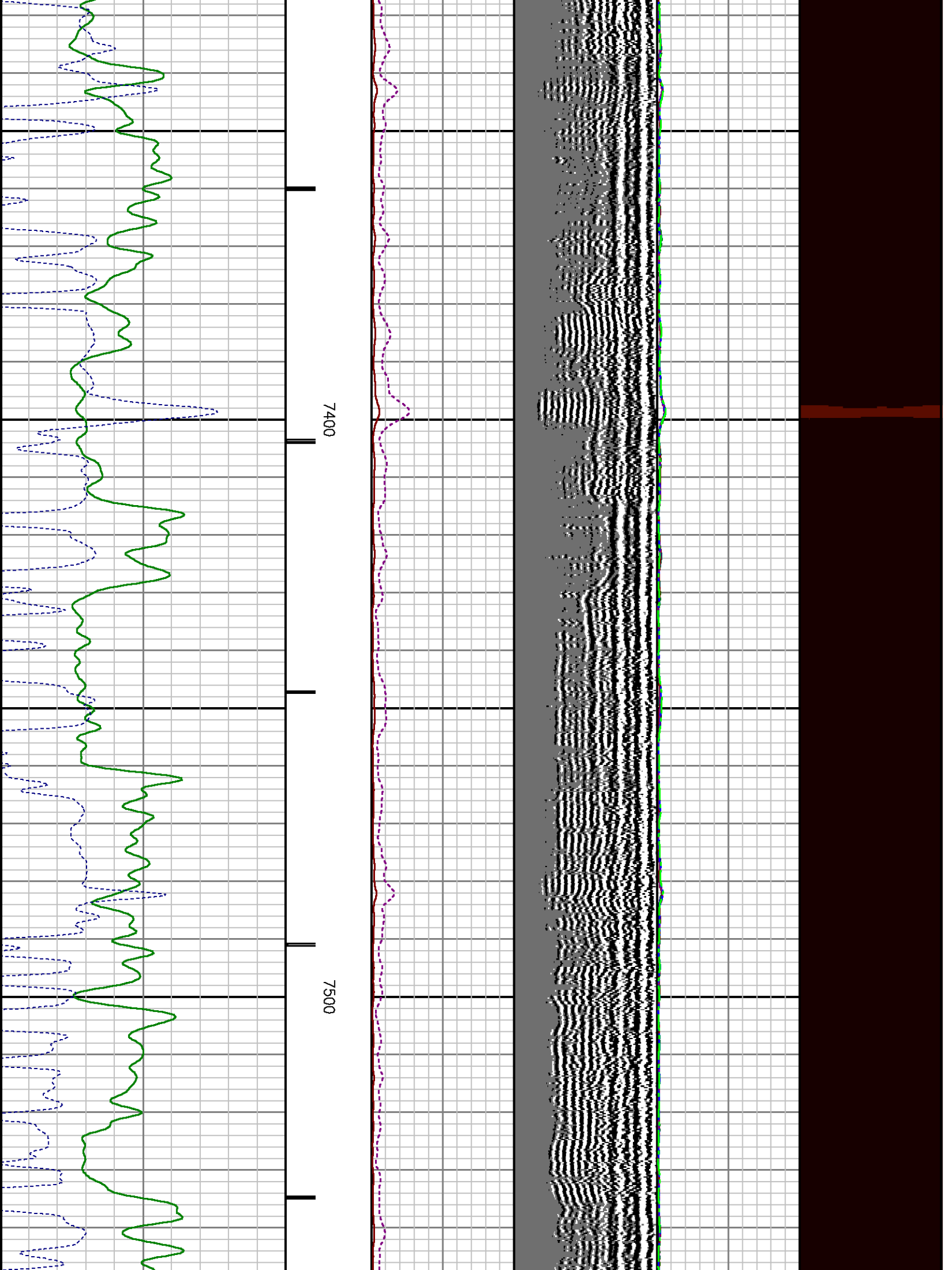




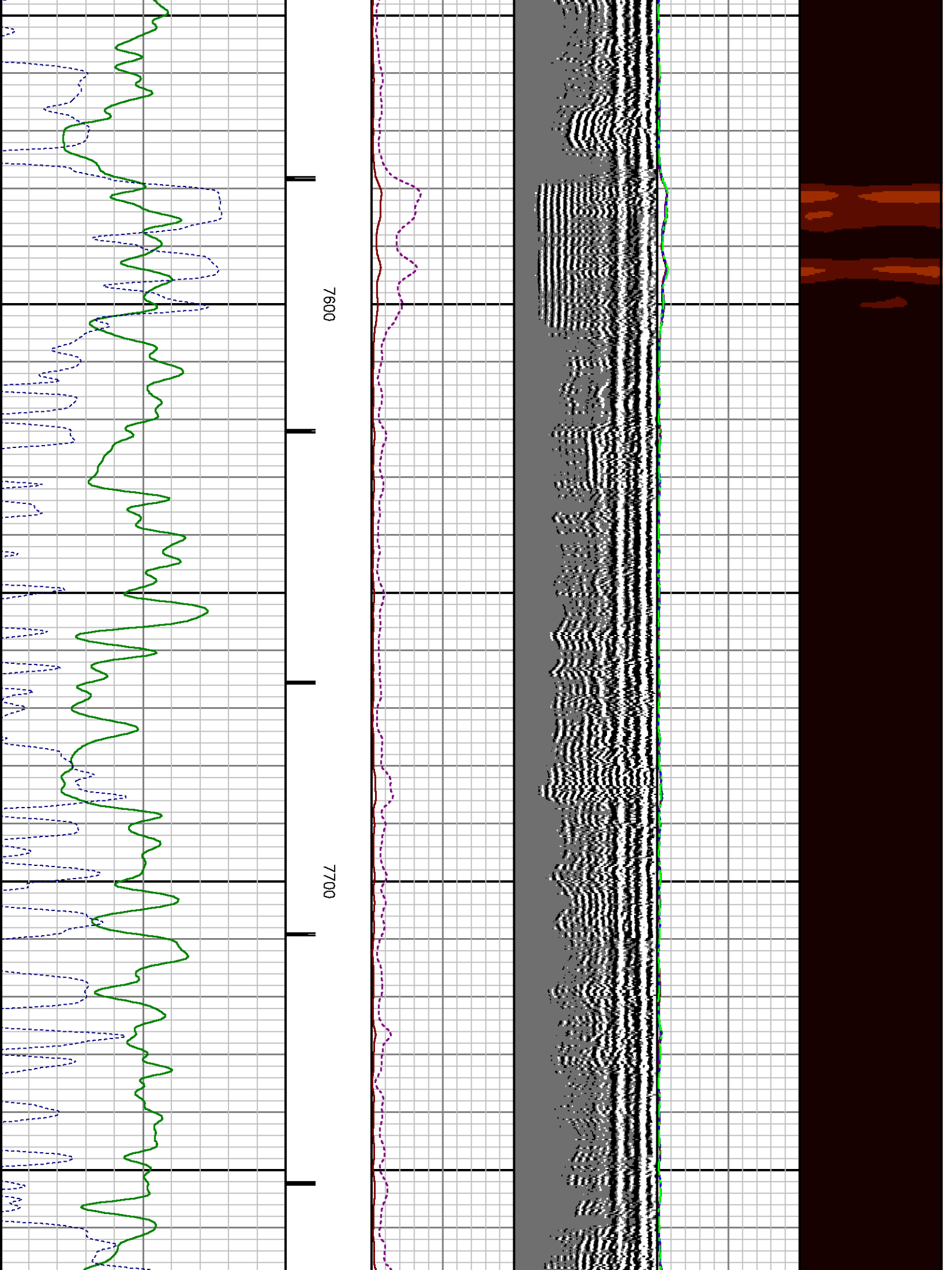


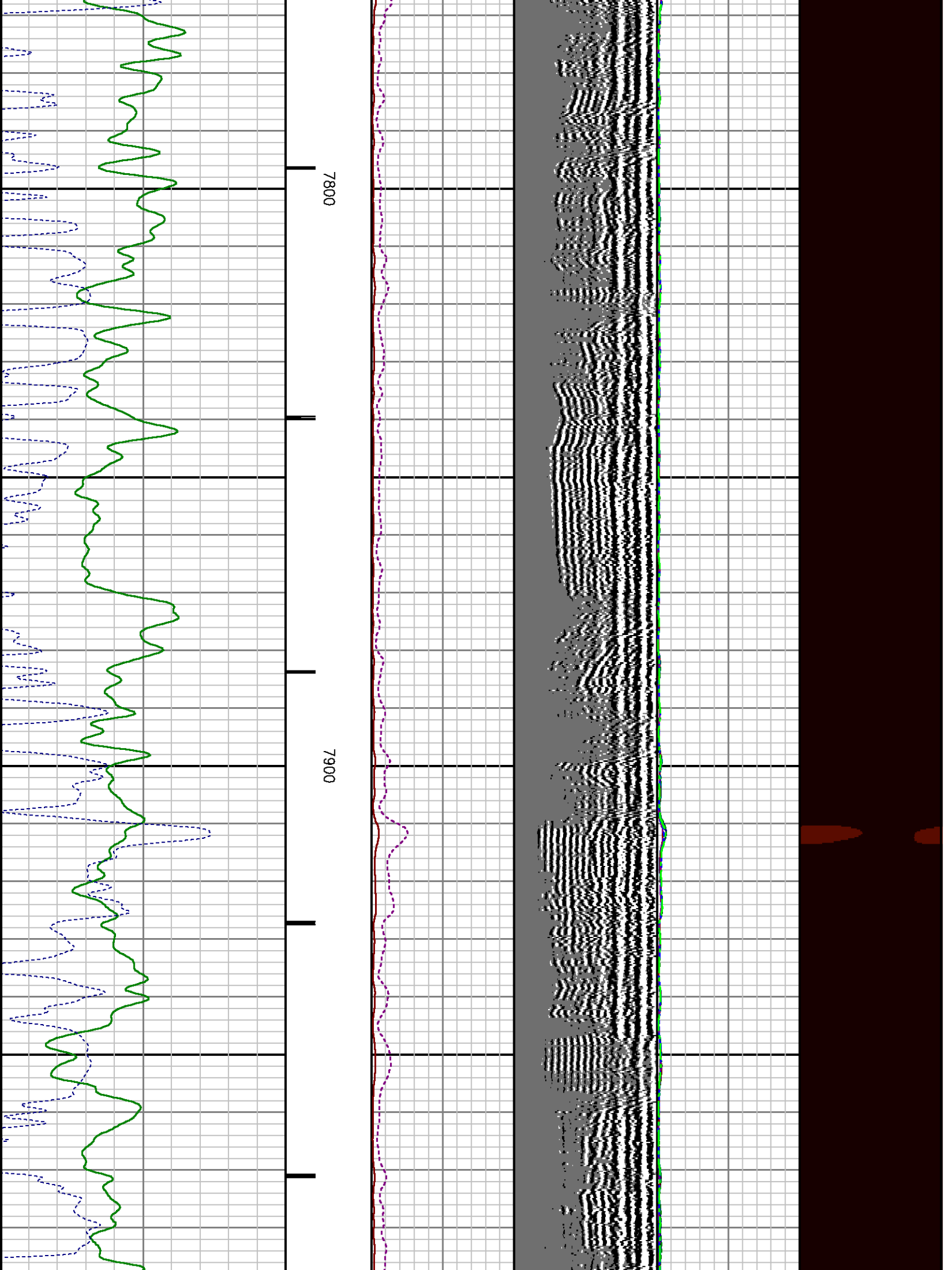


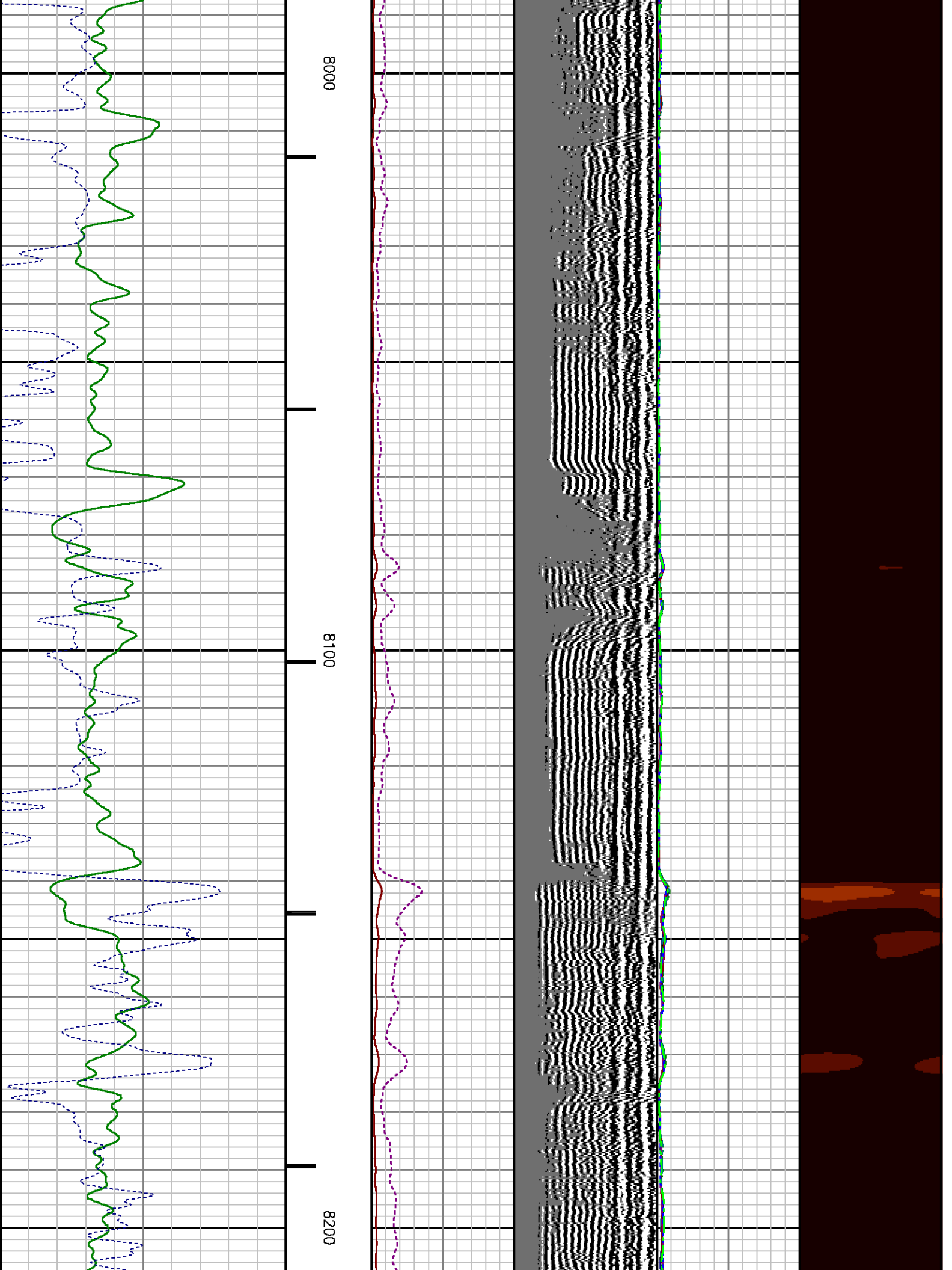














RAL	Amp Gate Width Radial	25.000	usec	7949.750	8276.000
RAL	casing od	4.500	inches	7949.750	8276.000
RAL	casing wt	11.600	lbm/ft	7949.750	8276.000
RAL	FB Start Far	291.900	usec	7949.750	8276.000
RAL	FB Start Near	175.391	usec	7949.750	8276.000
RAL	FB Start Radial	175.391	usec	7949.750	8276.000
RAL	FB Thresh Far	10.000	mv	7949.750	8276.000
RAL	FB Thresh Near	4.000	mv	7949.750	8276.000
RAL	FB Thresh Radial	4.000	mv	7949.750	8276.000
RAL	Fluid Travel Time	200.000	usec/ft	7949.750	8275.968

## DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES							
1426XA	-11.000	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	-10.040	AFAR	SIG	TT5					
1355XA	-5.620	CCL							
1355XA	-1.500	GR							
1355XA	0.000	TEMP							

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

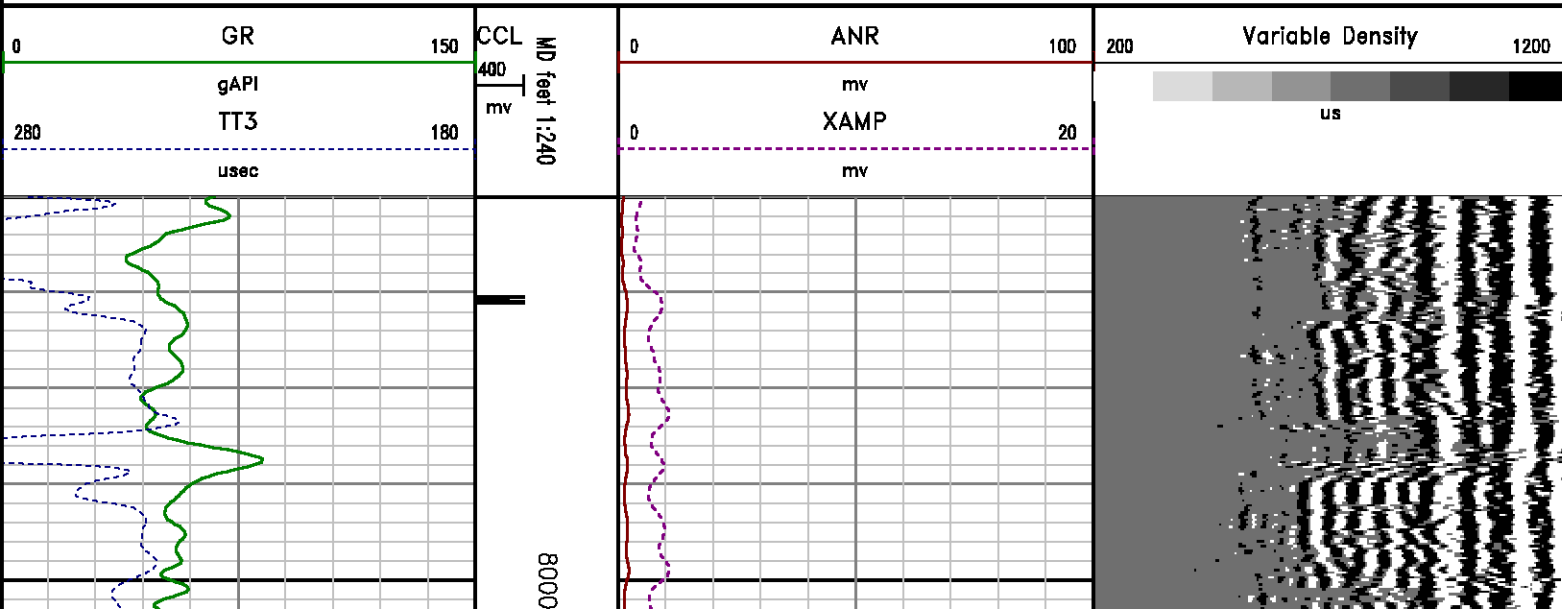
Well : GOLDSBOROUGH PA 311-11

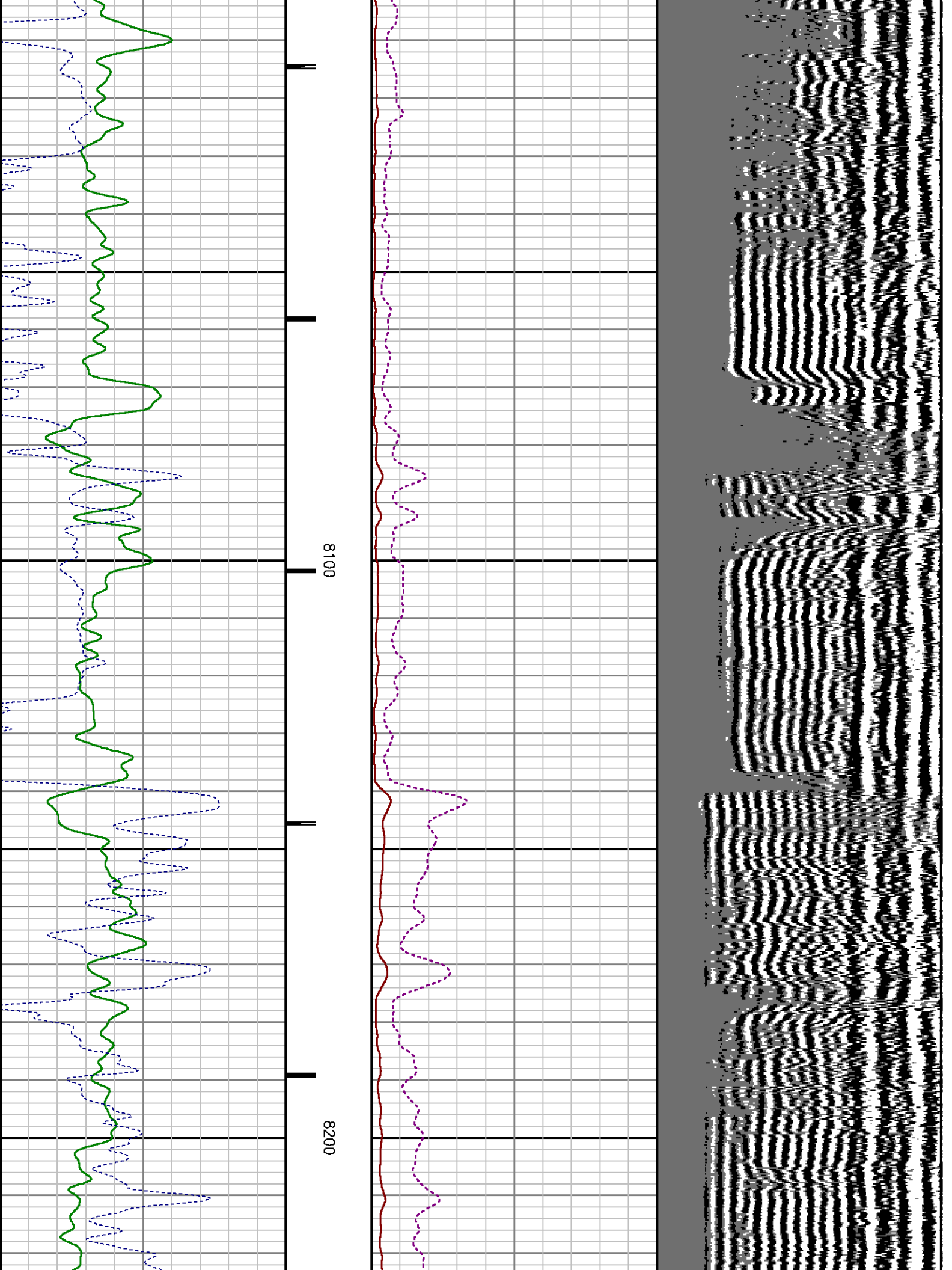
File Name : d:\welldata\311cbl\repeat.xtf

Mode : PlotMgr 5.4.504

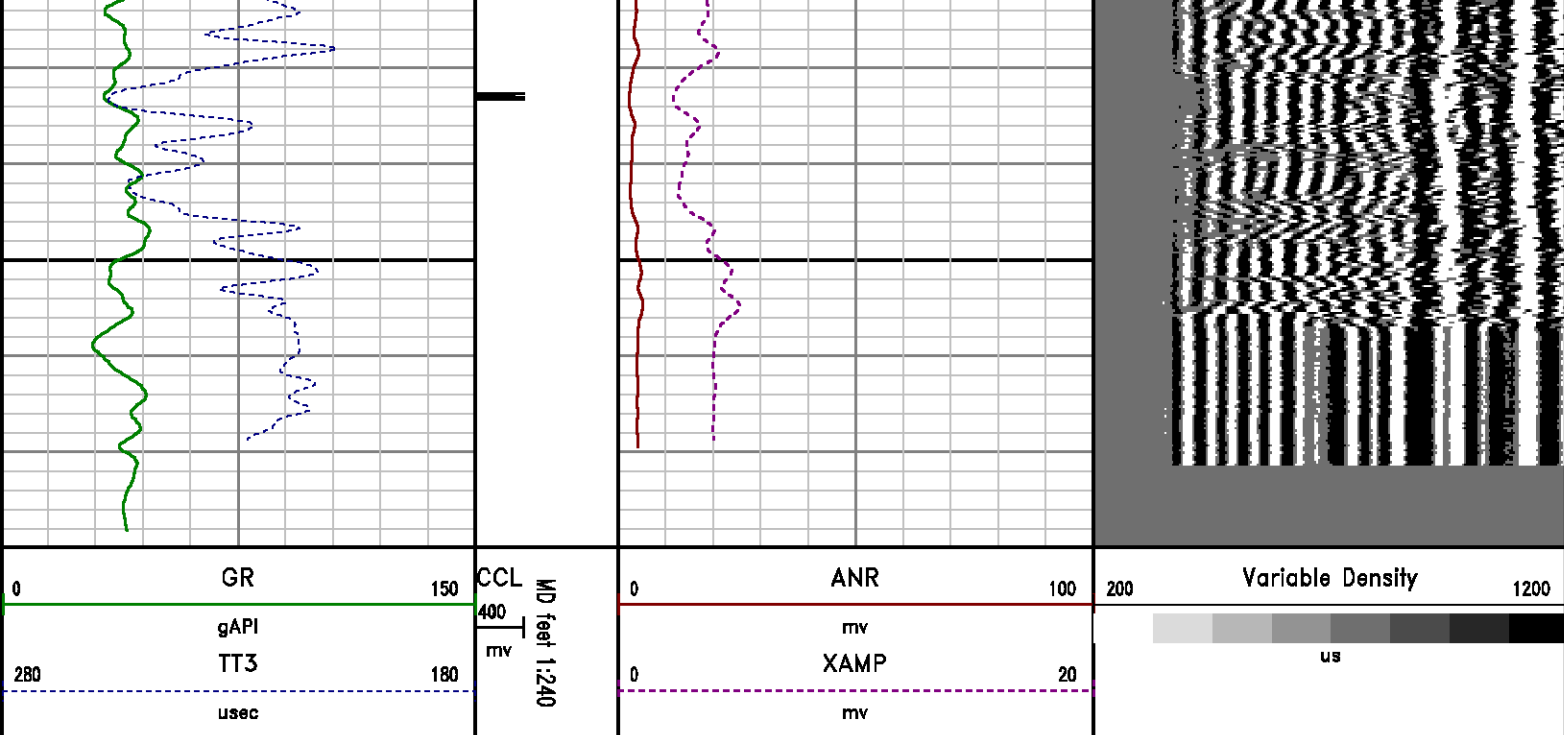
Interval : 7960.00 - 8280.00 feet UP

Created : 4/26/2013 12:52:42 PM









## CALIBRATION SUMMARY

**RALSHP**

Shop Calibration: C:\case\calver\RALSHP\106A26.shp.cal

### SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Apr 26 12:11:45 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A26

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	218	216	30	166	25	-0.210	100.00	0.18
3 Ft. Receiver	218	216	30	166	25	-1.277	100.00	0.17
5 Ft. Receiver	326	323	30	261	25	-0.145	150.00	0.19
Radial #1	218	216	30	166	25	-1.559	100.00	0.17
Radial #2	218	216	30	166	25	-1.637	100.00	0.17
Radial #3	218	216	30	166	25	-1.733	100.00	0.17
Radial #4	218	216	30	166	25	-2.214	100.00	0.17
Radial #5	218	216	30	166	25	-1.970	100.00	0.18
Radial #6	218	216	30	166	25	-1.824	100.00	0.18
Radial #7	218	216	30	166	25	-1.647	100.00	0.18
Radial #8	218	216	30	166	25	-1.552	100.00	0.18

# RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\106A26 fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Fri Apr 26 12:13:16 2013 TOOL SERIES: 1426XA ASSET: 106 SEQ: A26

Tool Delay [usec] -58.00 Casing OD 4.50 Casing Wt 11.60 Casing ID 4.00  
In 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	166	25	-0.037	0.000	1.01	100.000
3 Ft. Receiver	200	30	-0.698			
5 Ft. Receiver	317	30	-0.971			
Radial #1	200	30	-1.811			
Radial #2	200	30	-1.265			
Radial #3	200	30	-1.060			
Radial #4	200	30	-1.150			
Radial #5	200	30	-0.897			
Radial #6	200	30	-0.807			
Radial #7	200	30	-0.731			
Radial #8	200	30	-0.730			

# GAMMA RAY

Calibration File: C:\case\calver\GR\209A.cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Apr 01 16:37:57 2010 TOOL SERIES: 1355XA ASSET: 209 SEQ: A

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
6670 S2K	132.31	594.62	0.400	52.95	237.95	185.00

Verification File: C:\case\calver\GR\209A1.VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Apr 11 12:01:16 2013 TOOL SERIES: 1355XA ASSET: 209 SEQ: A1

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K WA612	149.69	589.51	0.408	61.11	240.67	179.56

# TOOL DIAGRAM

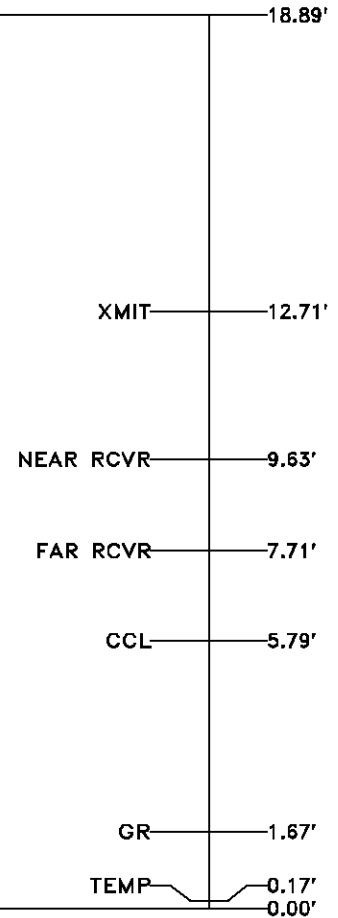
## OTA SHORT CABLE HEAD

### 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

### RAL GR/TEMP/CCL/CHV DETECTOR

Series	1355XA
Mnemonic	RAL
Diameter	2.75"
Weight	85.00 lb
Length	6.96'
Measure Point	0.17' TEMP
Measure Point	1.67' GR
Measure Point	5.79' CCL
Temp Rating	400.00 °F
Press Rating	20000.00 PSI



Total Length: 18.89'  
Total Weight: Not Available  
Max Diameter: 0' 2.75"



Baker Atlas



Company

WPX ENERGY

Well

GOLDSBOROUGH PA 311-11

Field

PARACHUTE

County

GARFIELD

State

COLORADO

Location

SHL: 2402' FNL & 2030' FWL SEC:11

BHL: 487' FNL & 668' FWL SEC:11

SEC 11

TWP 75

RGE 95W

Elevations

KB 6300 ft

DF

GL 6274 ft

File No:

CH071538

API No:

05045218210000

11 7S 95W

PA 22-11

CYCLONE 17