



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: WPX ENERGY

CH052720 JOLLEY KP 344-8

API No: Field KOKOPELLI

05045212090000 County GARFIELD State COLORADO

Location Other Services

SHL: 805' FWL, 692' FWL (SEC 16) RPM

BHL: 749' FSL, 573' FEL (SEC 8)

SEC 8 TWP 6S RGE 91W

8 6S 91W

KP 11-16 PAD

NABORS 574

Permanent Datum

Log Measured From

Drill Measured From

GL Elevation 6632 ft

KB 26 ft Above P. D.

KELLY BUSHING

Elevations

KB 6658 ft

DF

GL 6632 ft

Date 14/OCT/12

Run ONE

Service Order US625434

Depth Driller 7748 ft

Depth Logger 7719 ft

Bottom Logged Interval 7719 ft

Top Logged Interval 26 ft

Time Started 0800

Time Finished 1130

Operator Rig Time 3.5 HRS

Type of Fluid in Hole MUD/WATER

Fluid Density NA

Salinity NA

Fluid Level 94 ft

Logged Cement Top NA

Wellhead Pressure 0 psi

Maximum Hole Deviation NA

Nominal Logging Speed 45 fpm

Maximum Recorded Temperature 188 degF

Reference Log NONE

Reference Log Date NA

Equipment No. 4271 Location GRAND JCT

Recorded By FLOYD RENEAU

Witnessed By 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	1416 ft
7.875 In	0 ft	7748 ft

Casing Record				
Size	Weight	Grade	From	To
9.625 In			0 ft	1416 ft
4.5 In	11.6 lbm/ft	E-80	0 ft	7748 ft

Remarks

All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.

The amount of linear shift is 12 feet.

Logged with zero PSI at wellhead.

BHT = 188°F

SJ = 4491'-4511'

Equipment Data					
Run	Trip	Tool	Series Number	Serial Number	Position
1	1	VDL	1426XA	10404539	CENT
1	1	GR/CCL	2459XA	10404544	CENT

PRIMARY PRESENTATION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	36.312	7741.500
RAL	Amp Gate Start Near	195.000	usec	36.312	7741.500
RAL	Amp Gate Start Radial	195.000	usec	36.312	7741.500
RAL	Amp Gate Width Far	25.000	usec	36.312	7741.500
RAL	Amp Gate Width Near	25.000	usec	36.312	7741.500
RAL	Amp Gate Width Radial	25.000	usec	36.312	7741.500
RAL	casing od	4.500	inches	36.312	7741.500
RAL	casing wt	11.600	lbm/ft	36.312	7741.500
RAL	FB Start Far	291.900	usec	36.312	7741.500
RAL	FB Start Near	180.000	usec	36.312	7741.500
RAL	FB Start Radial	180.000	usec	36.312	7741.500
RAL	FB Thresh Far	15.000	mv	36.312	7741.500
RAL	FB Thresh Near	10.000	mv	36.312	7741.500
RAL	FB Thresh Radial	10.000	mv	36.312	7741.500
RAL	Fluid Travel Time	200.000	usec/ft	36.312	7741.437

DEPTH OFFSETS

(for Acquired Curves)

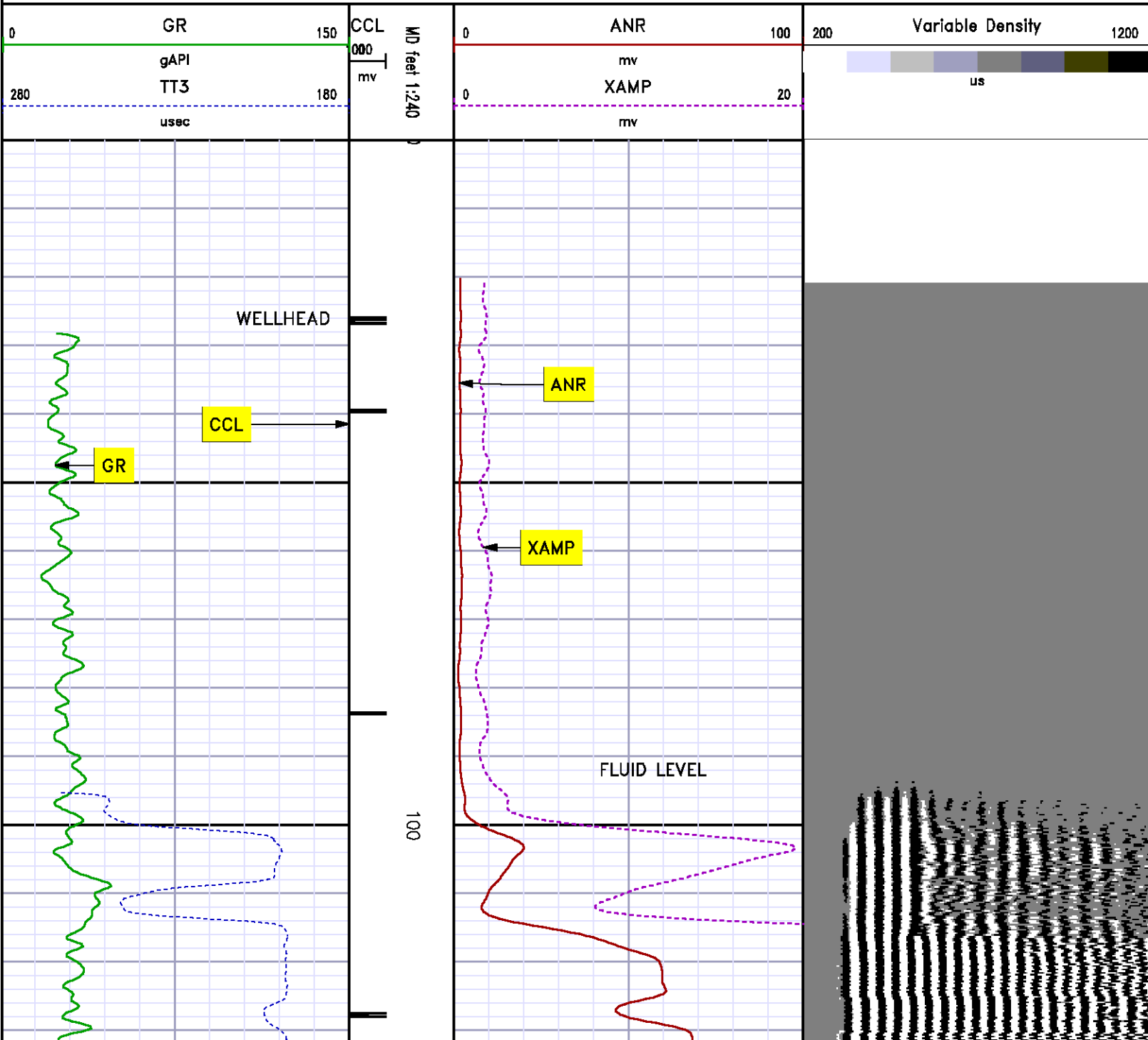
SERIES	DEPTH OFFSET	ACQUIRED CURVES							
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		AR5	AR6	AR7	AR8	CHV	FPR2		

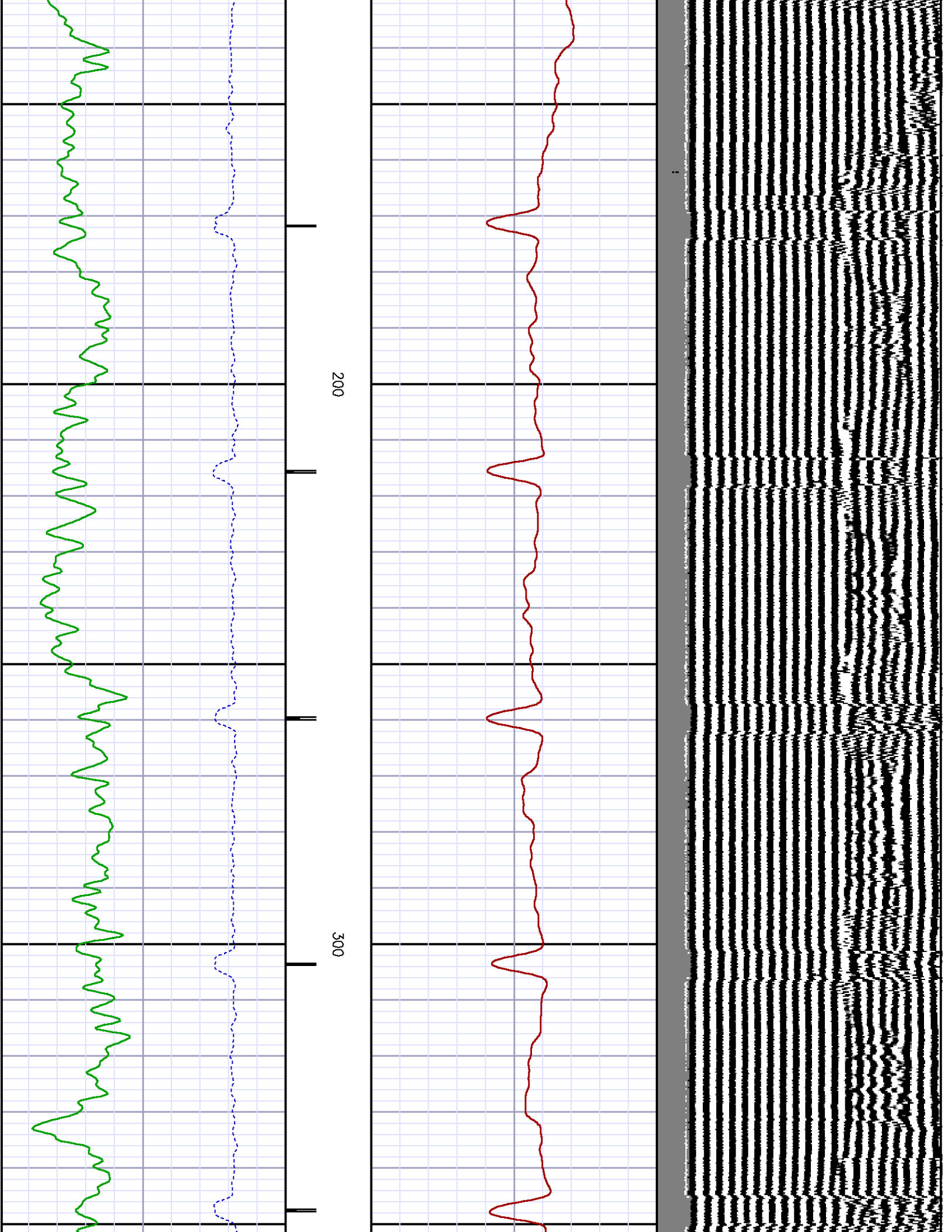
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2459XA -11.340
2459XA -9.490
2459XA -4.090

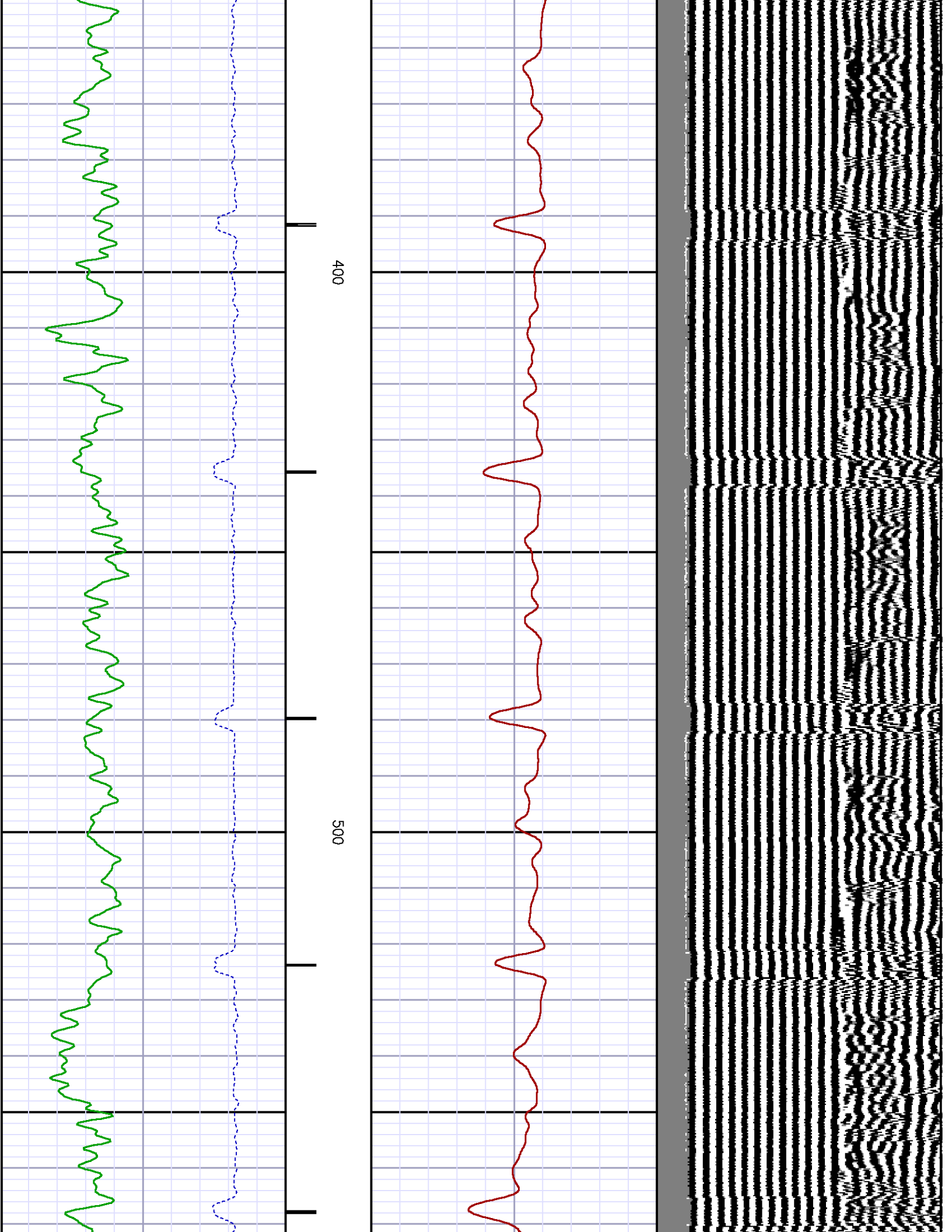
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TTR4	TTR5	TTR6	TTR7	TTR8	XAMP
AFAR	SIG	TT5			
CCL					
GR					
NEU					

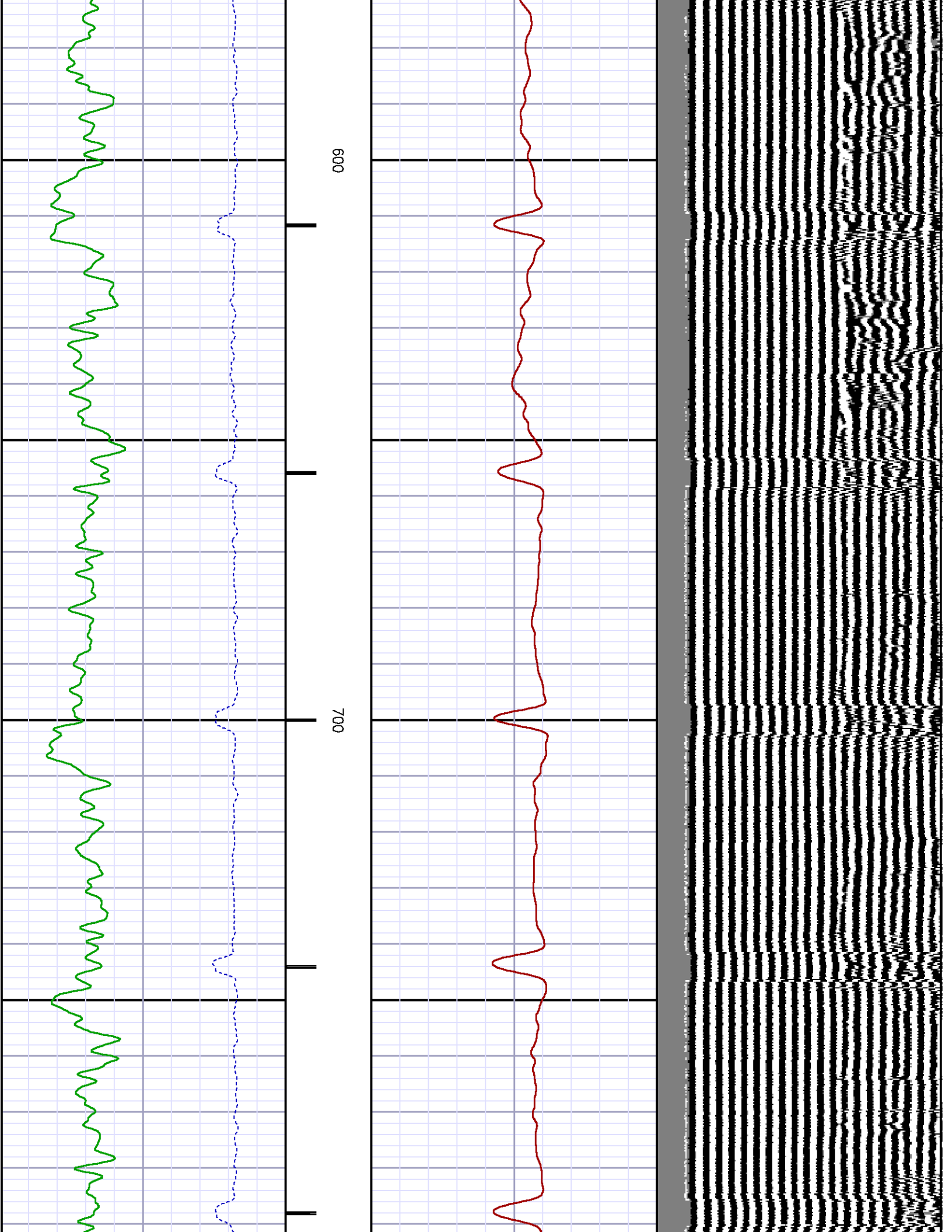
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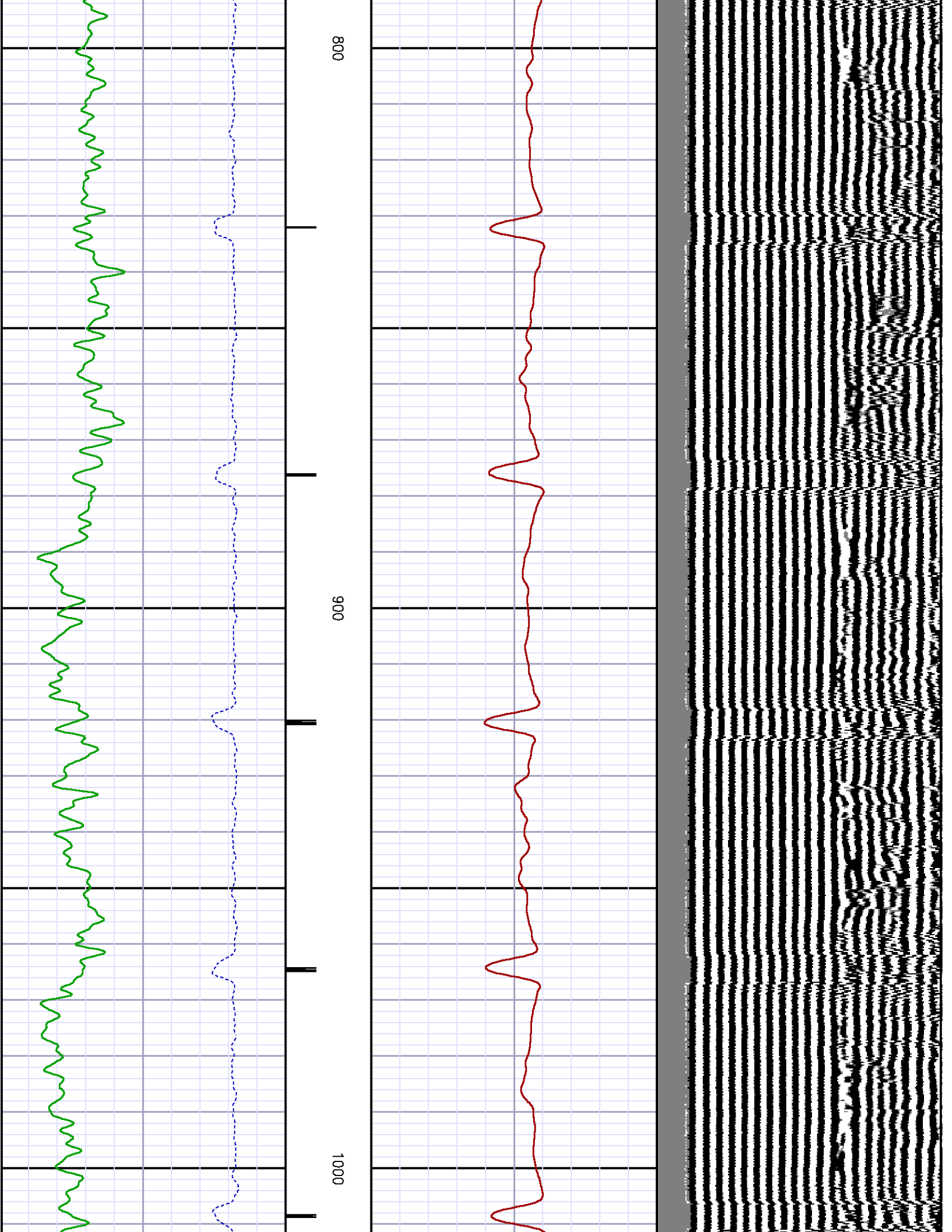
Company : WPX ENERGY
Well : JOLLEY KP 344-8
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Interval : 0.00 - 7725.00 feet UP
Created : 10/14/2012 9:17:16 AM

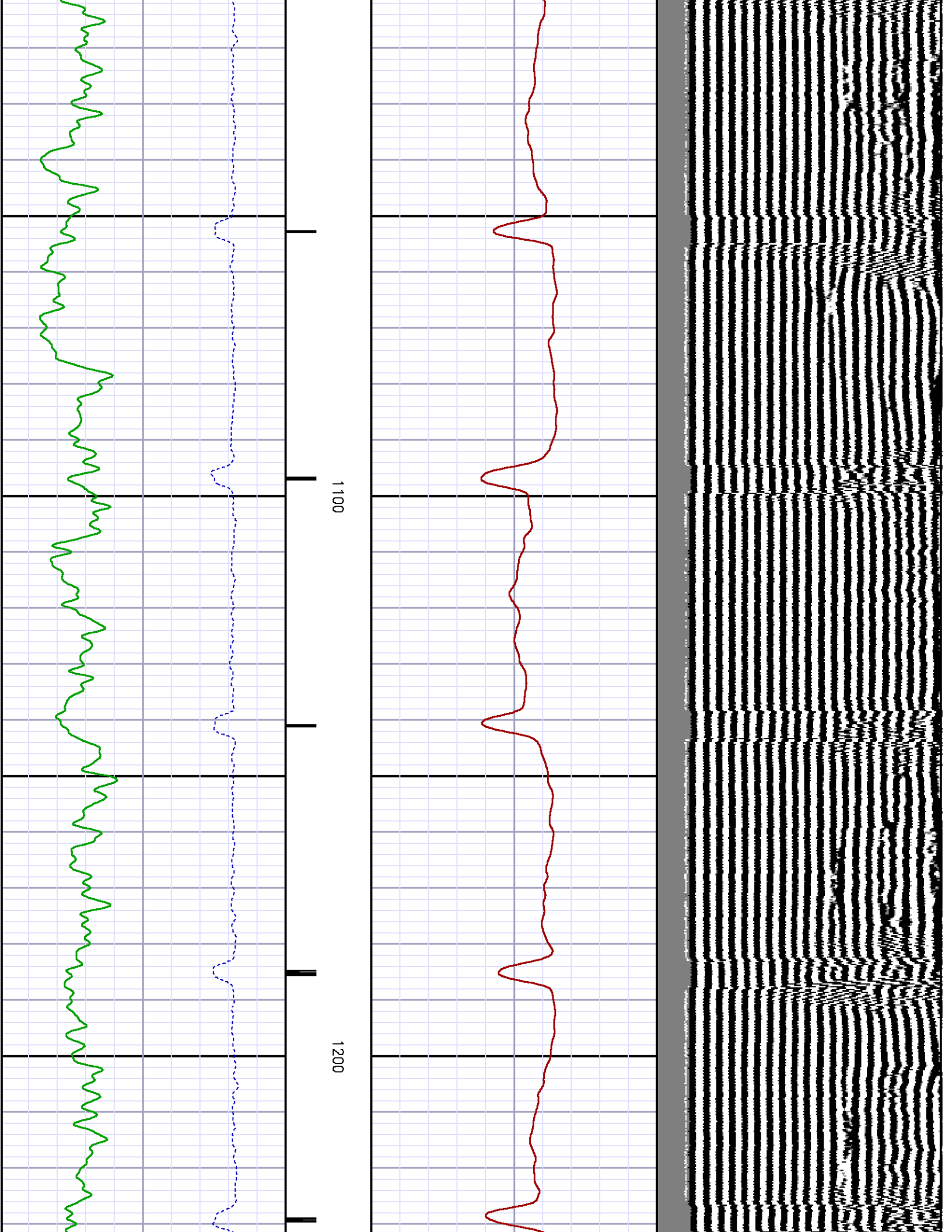


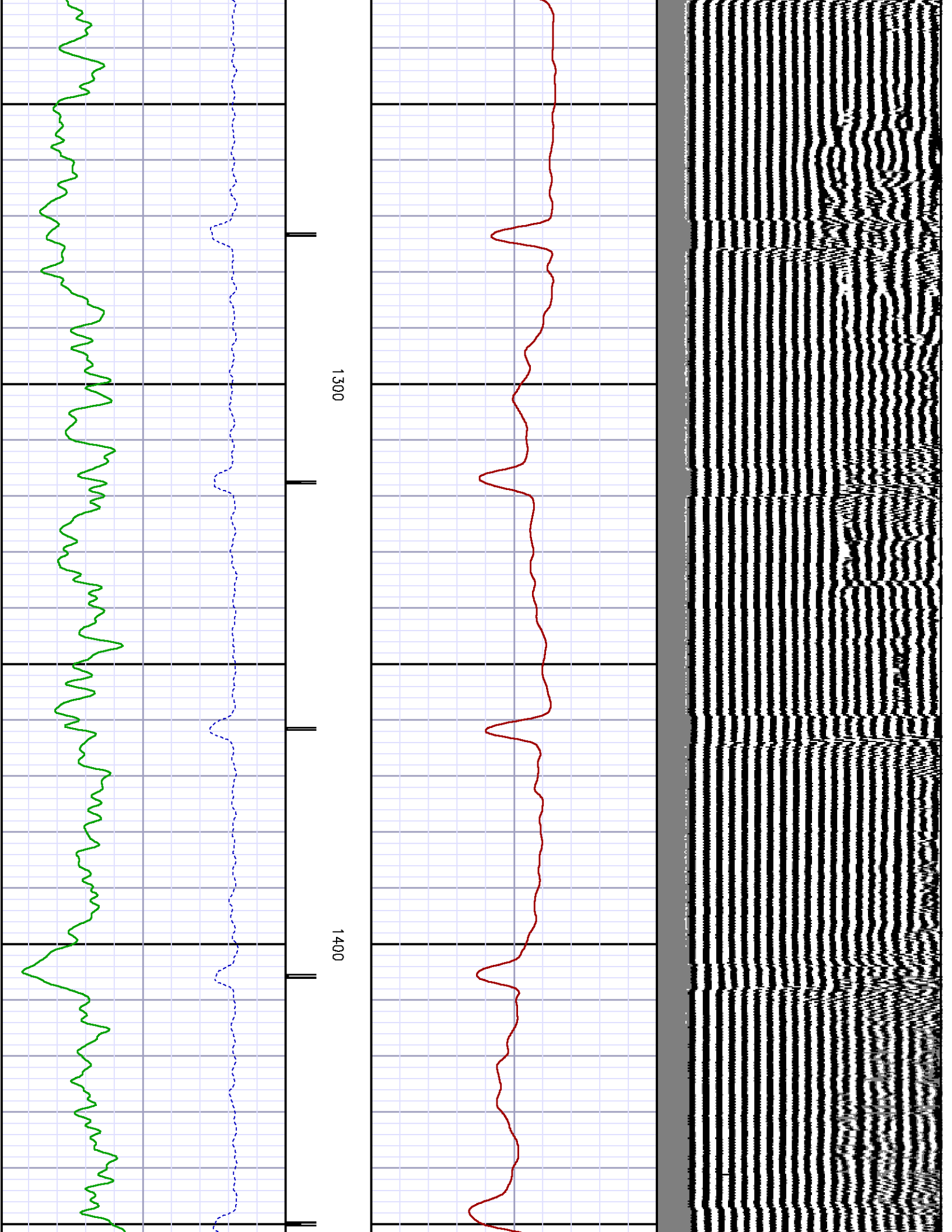


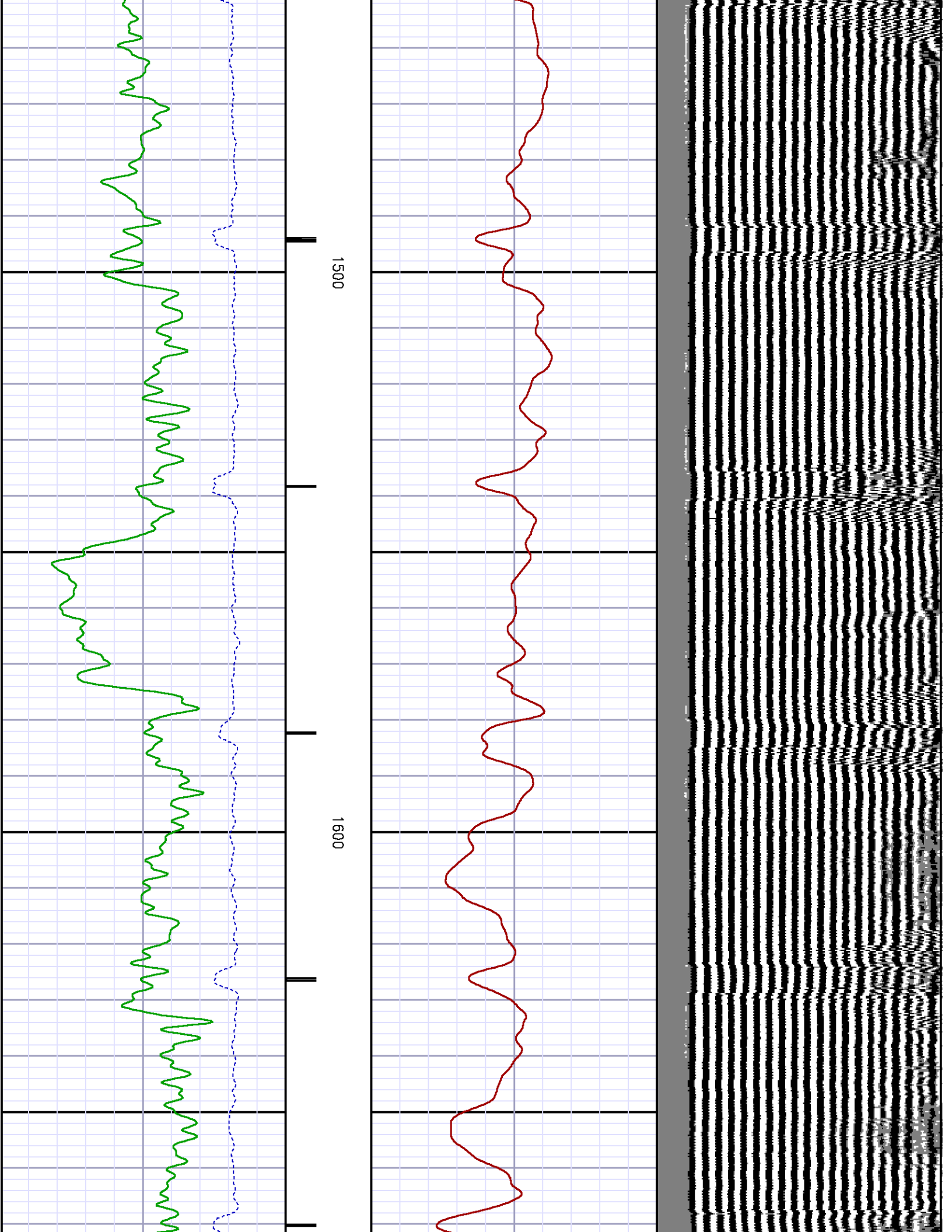


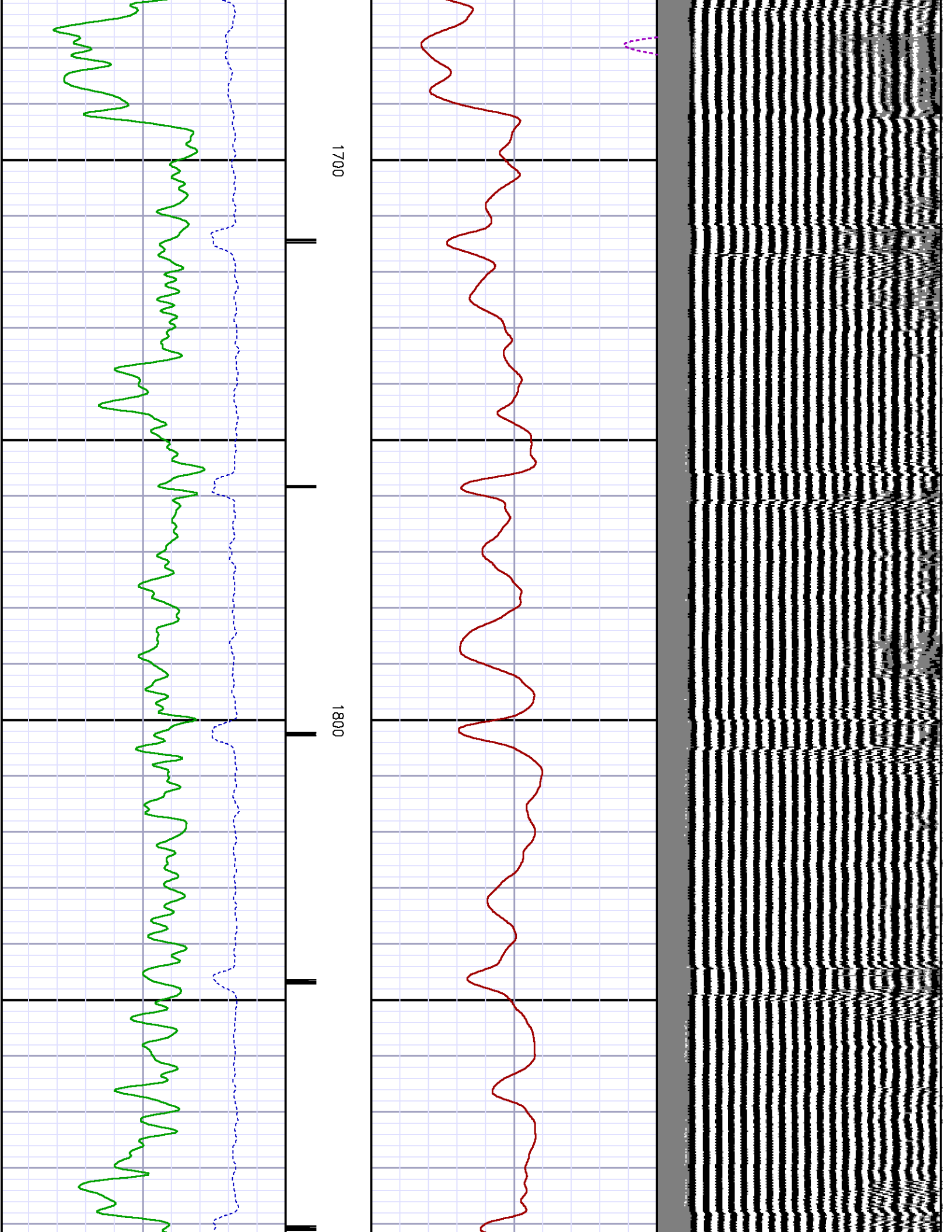


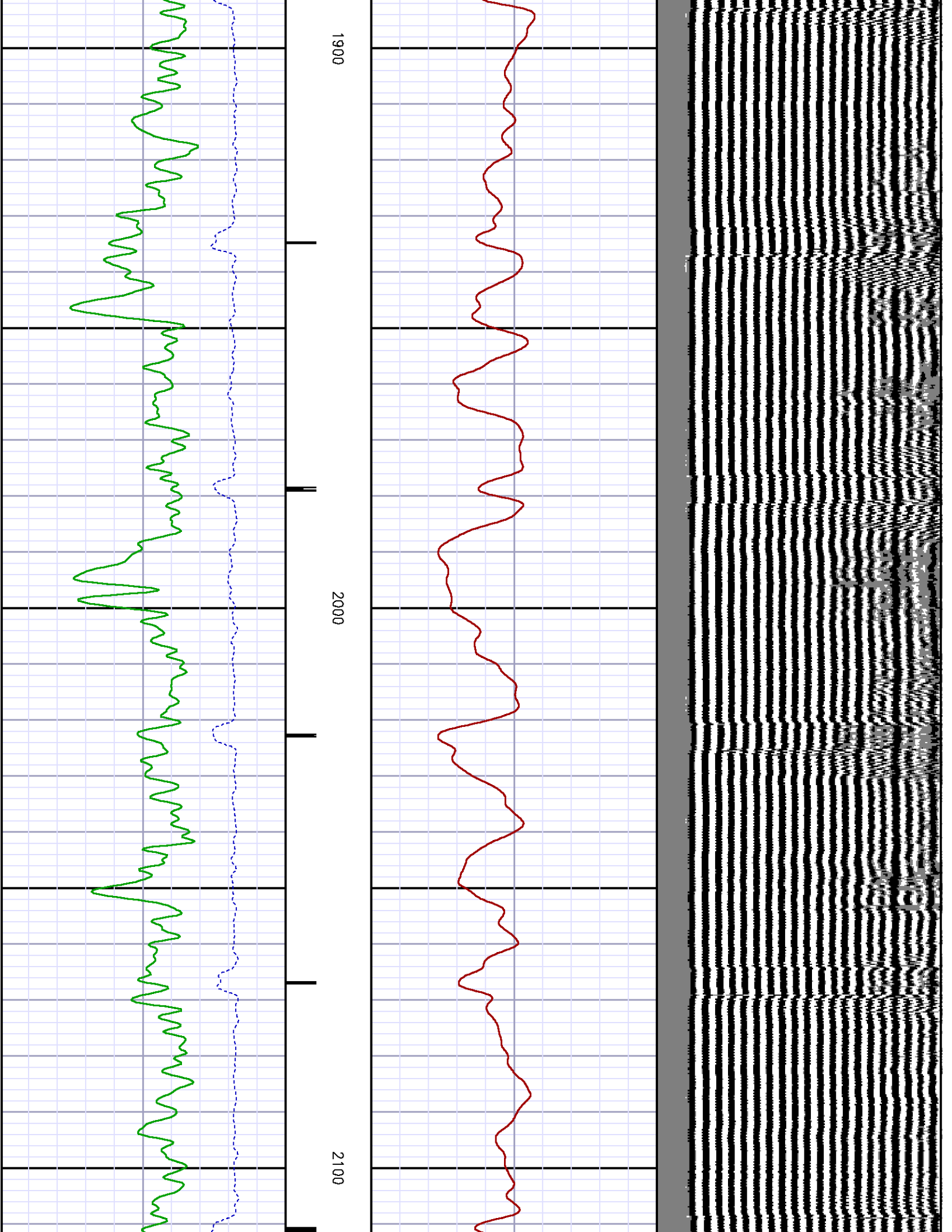


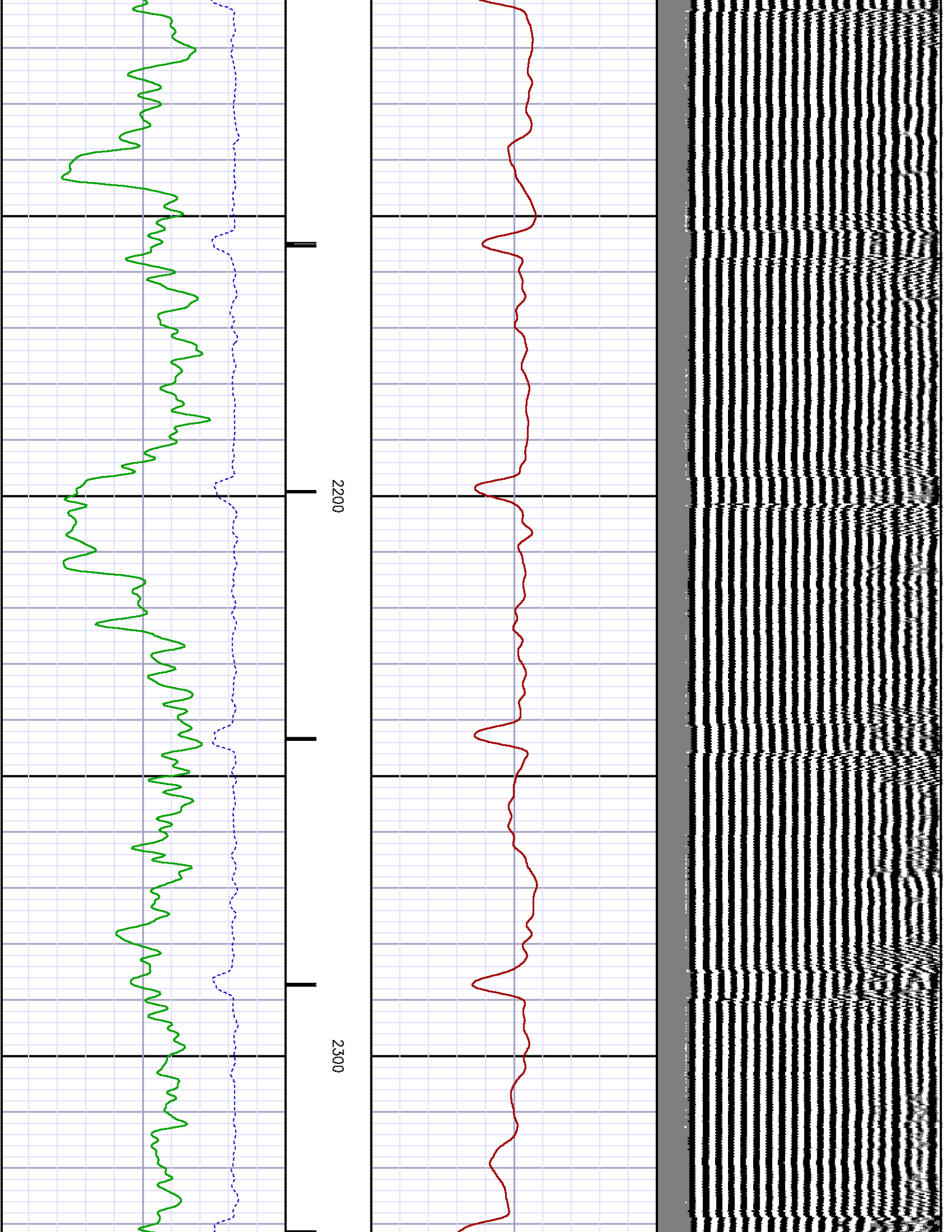


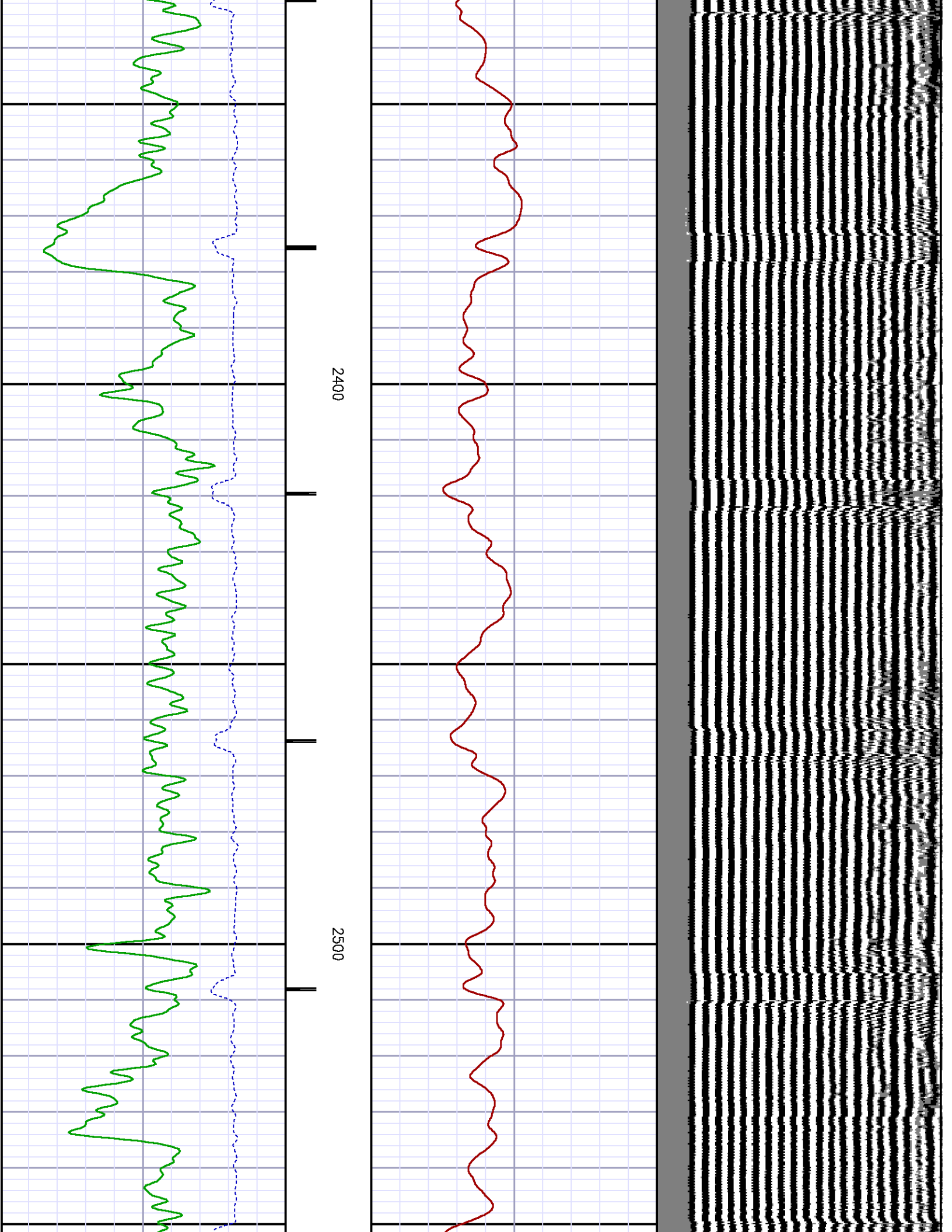


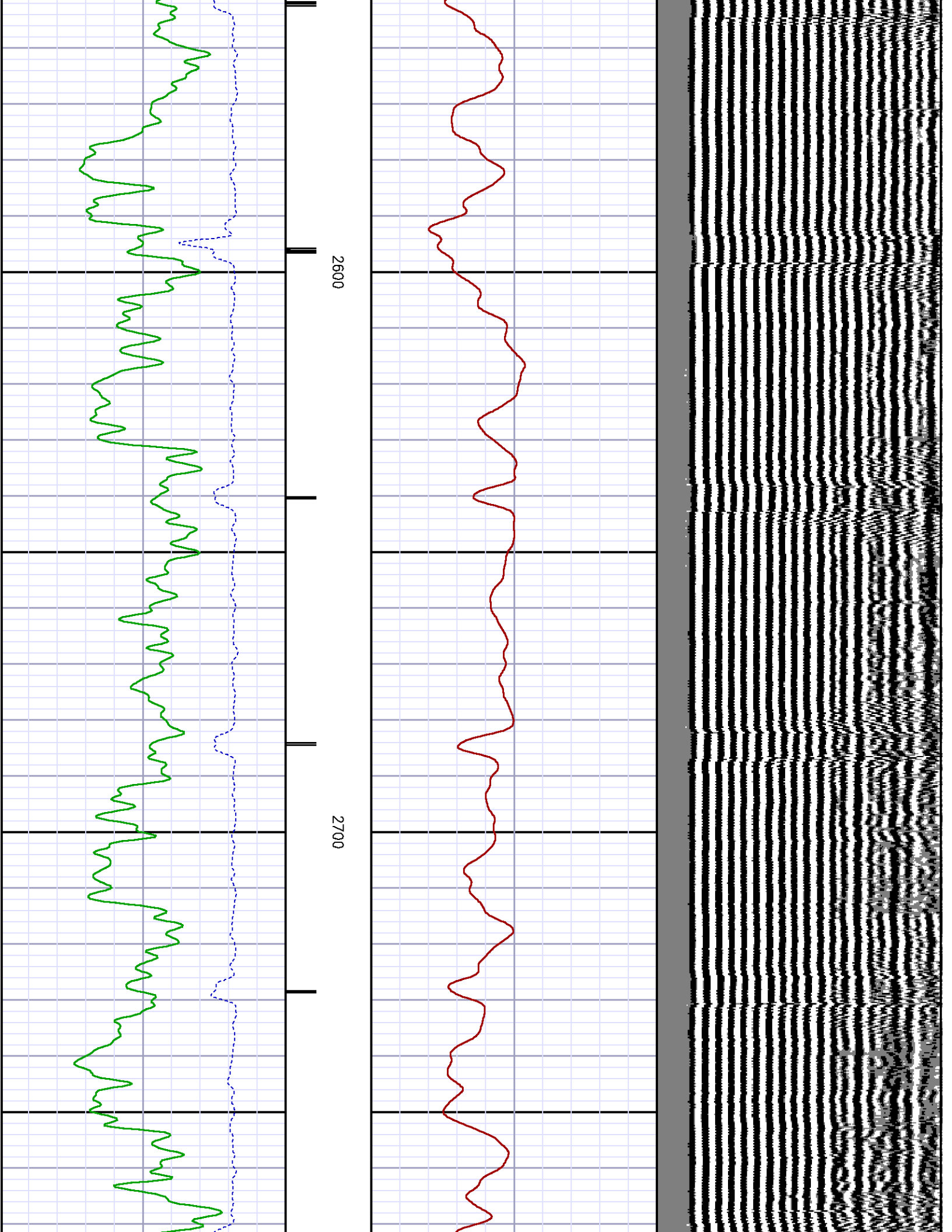


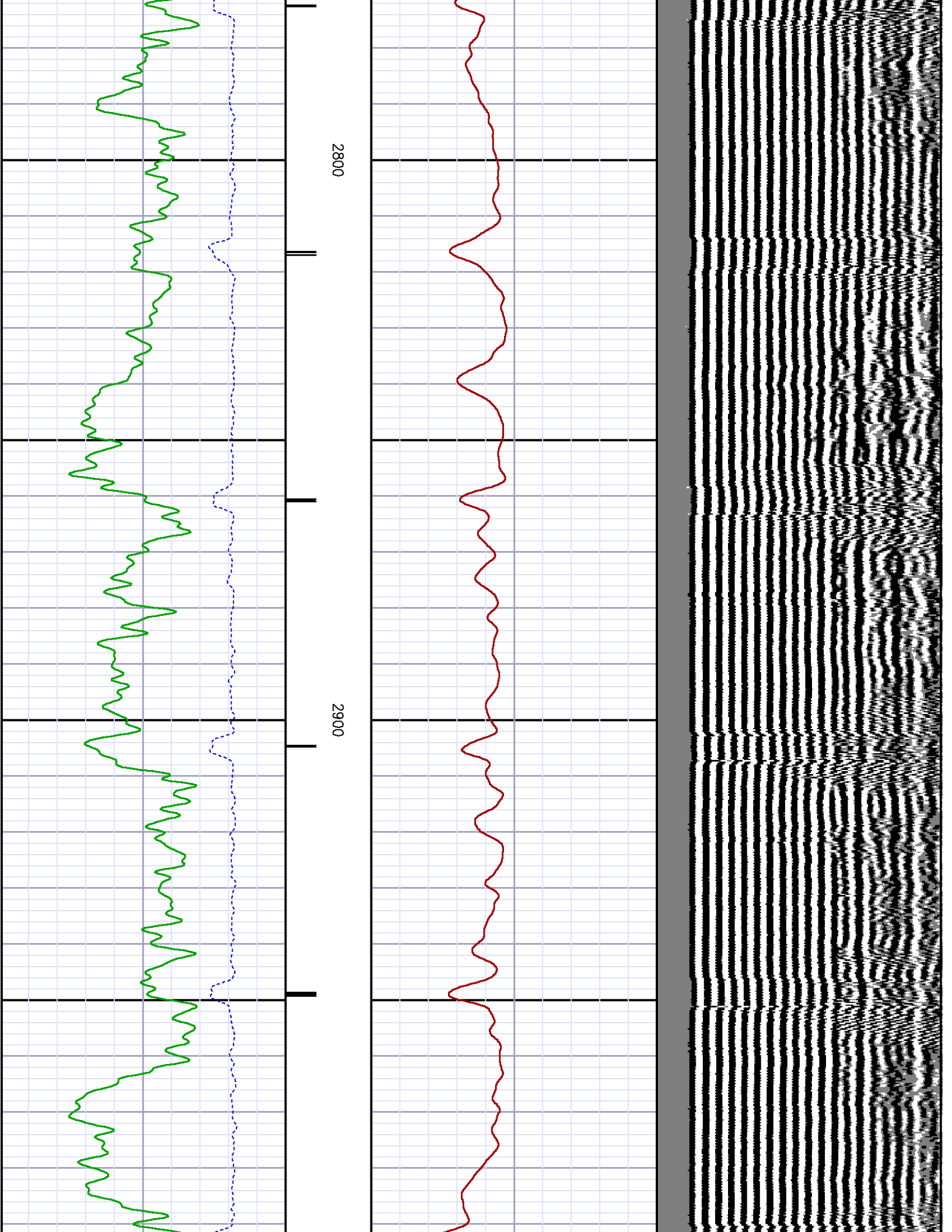


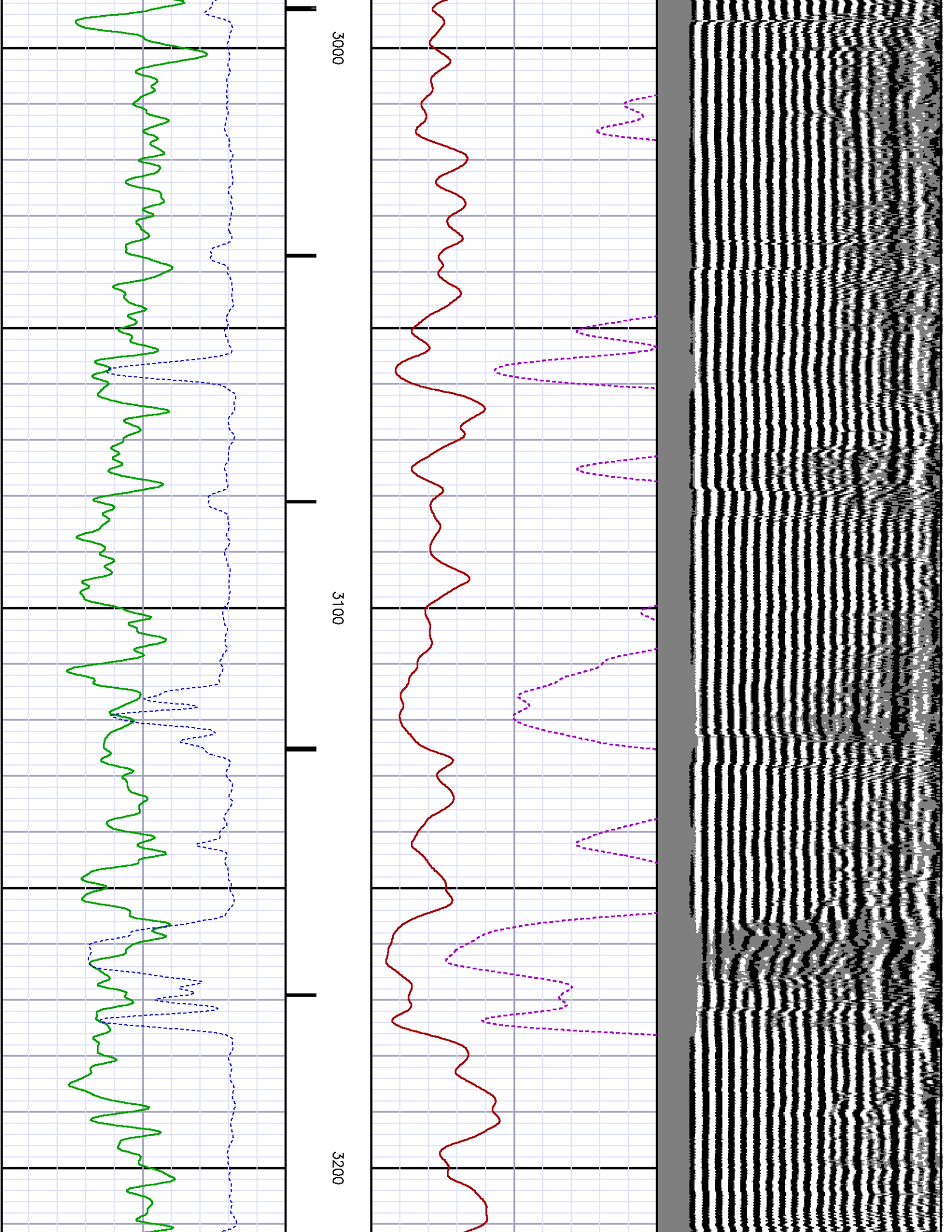


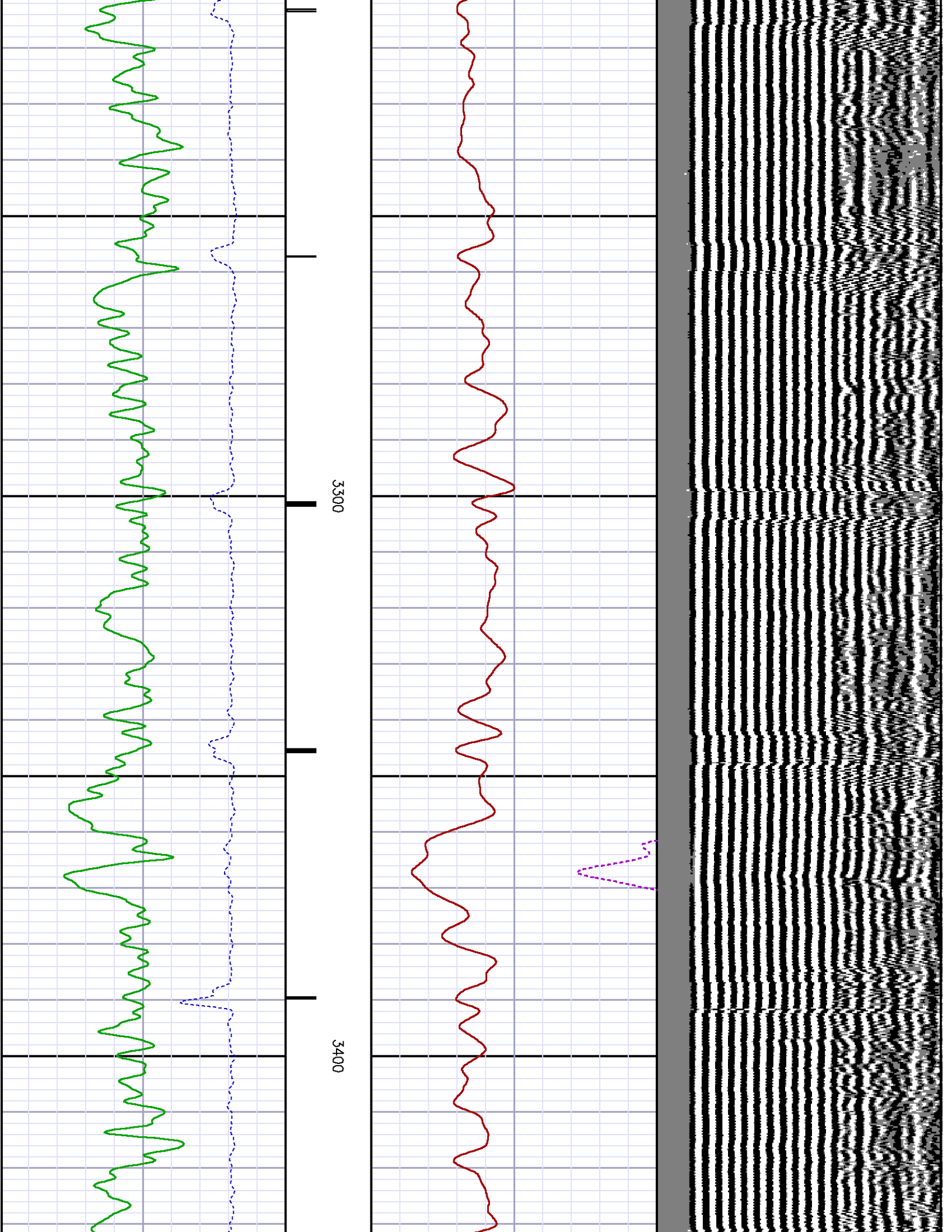


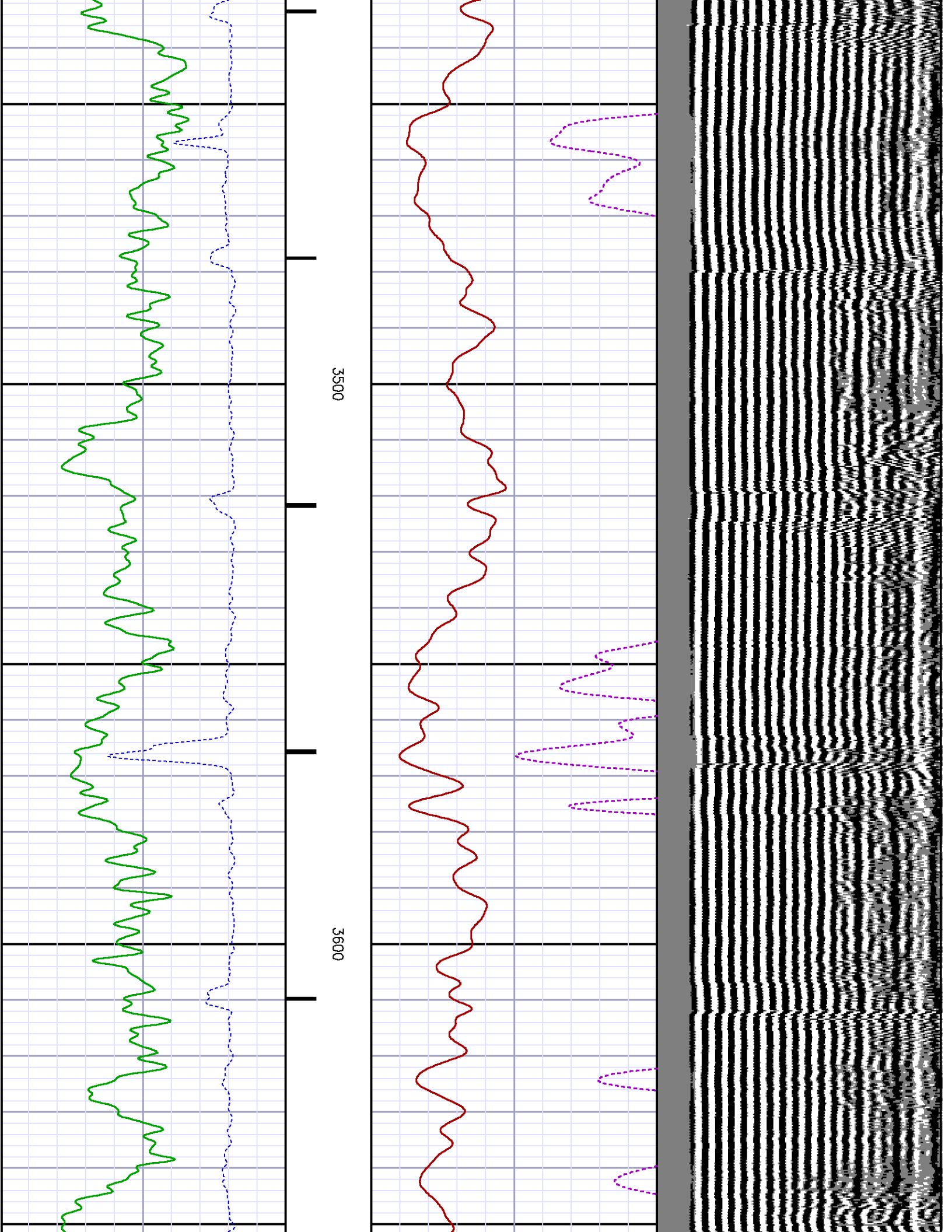


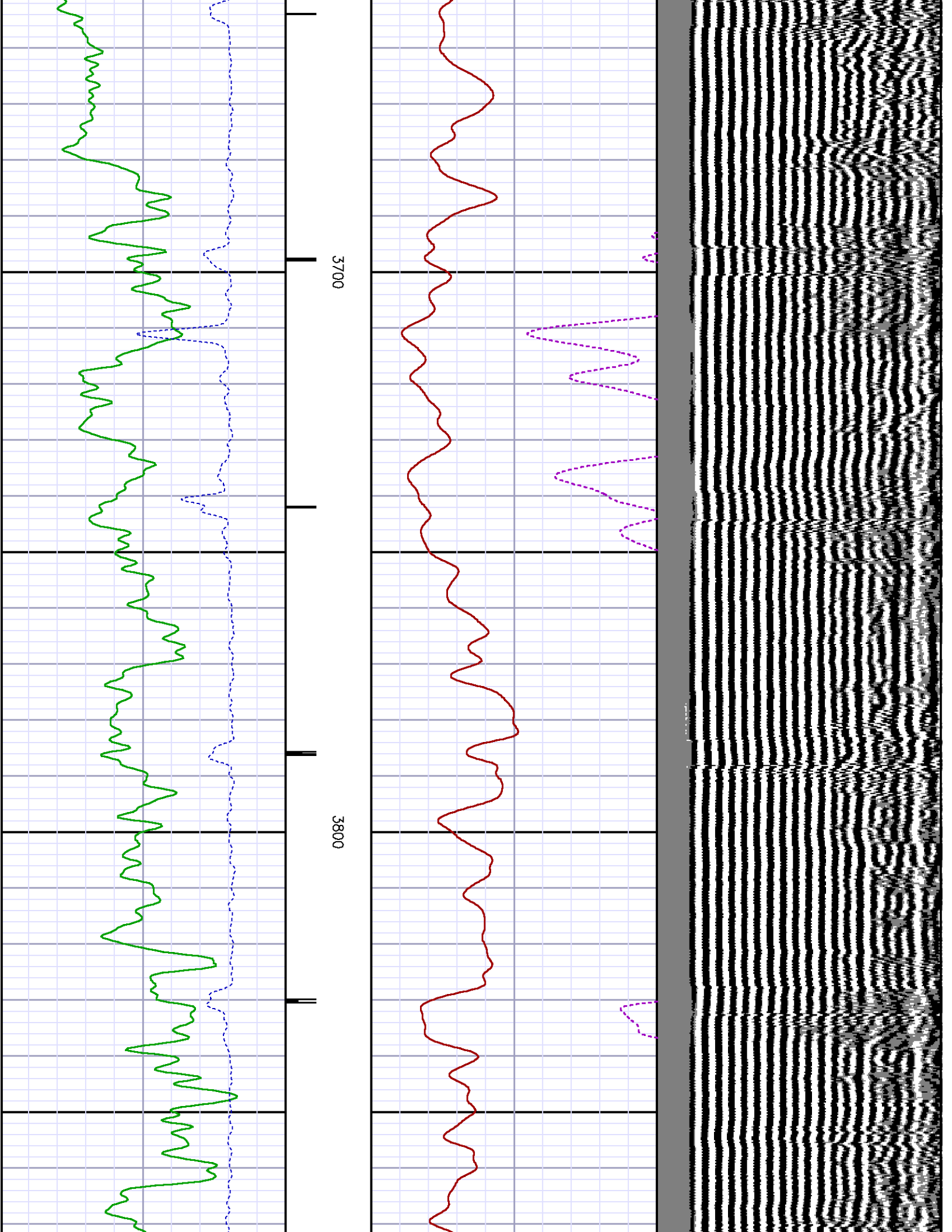


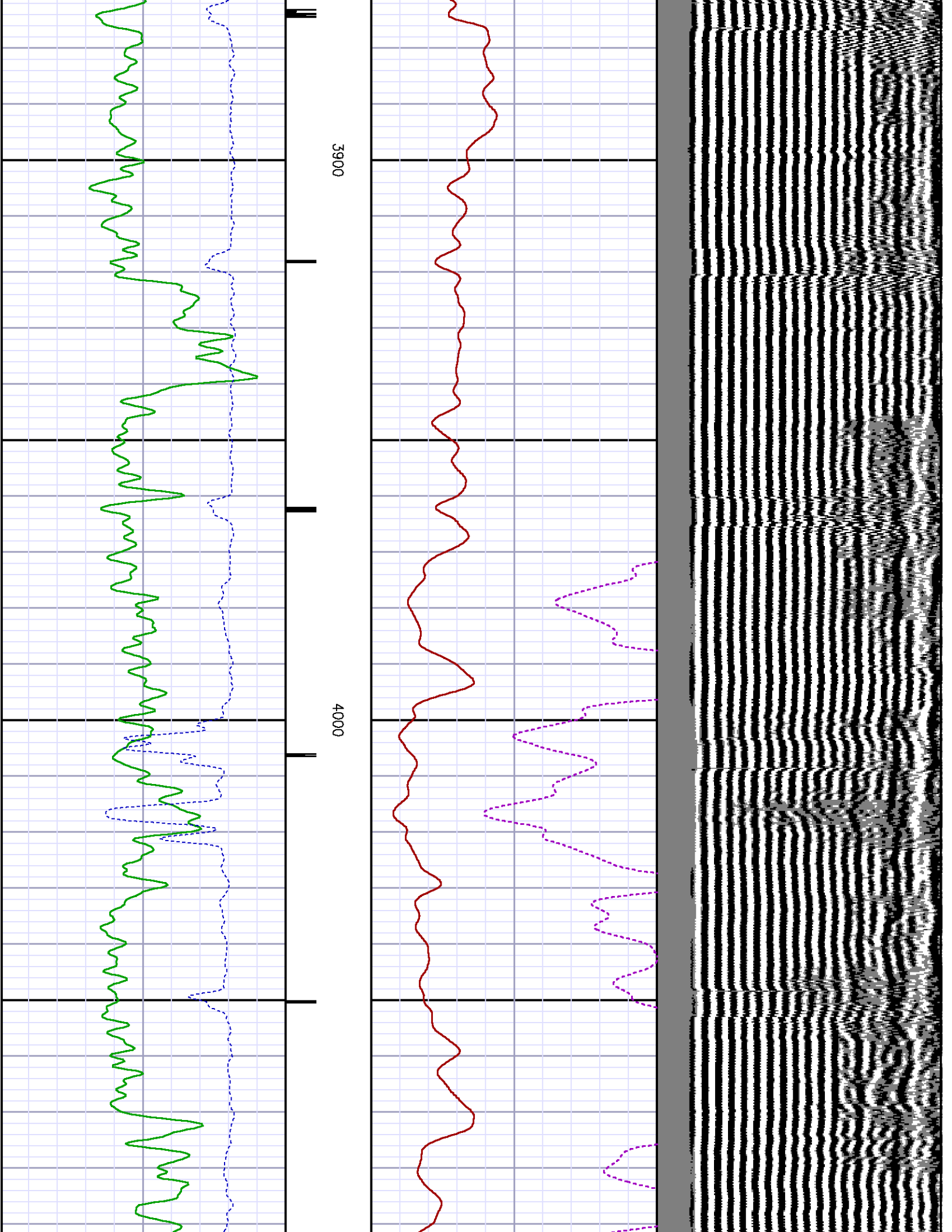


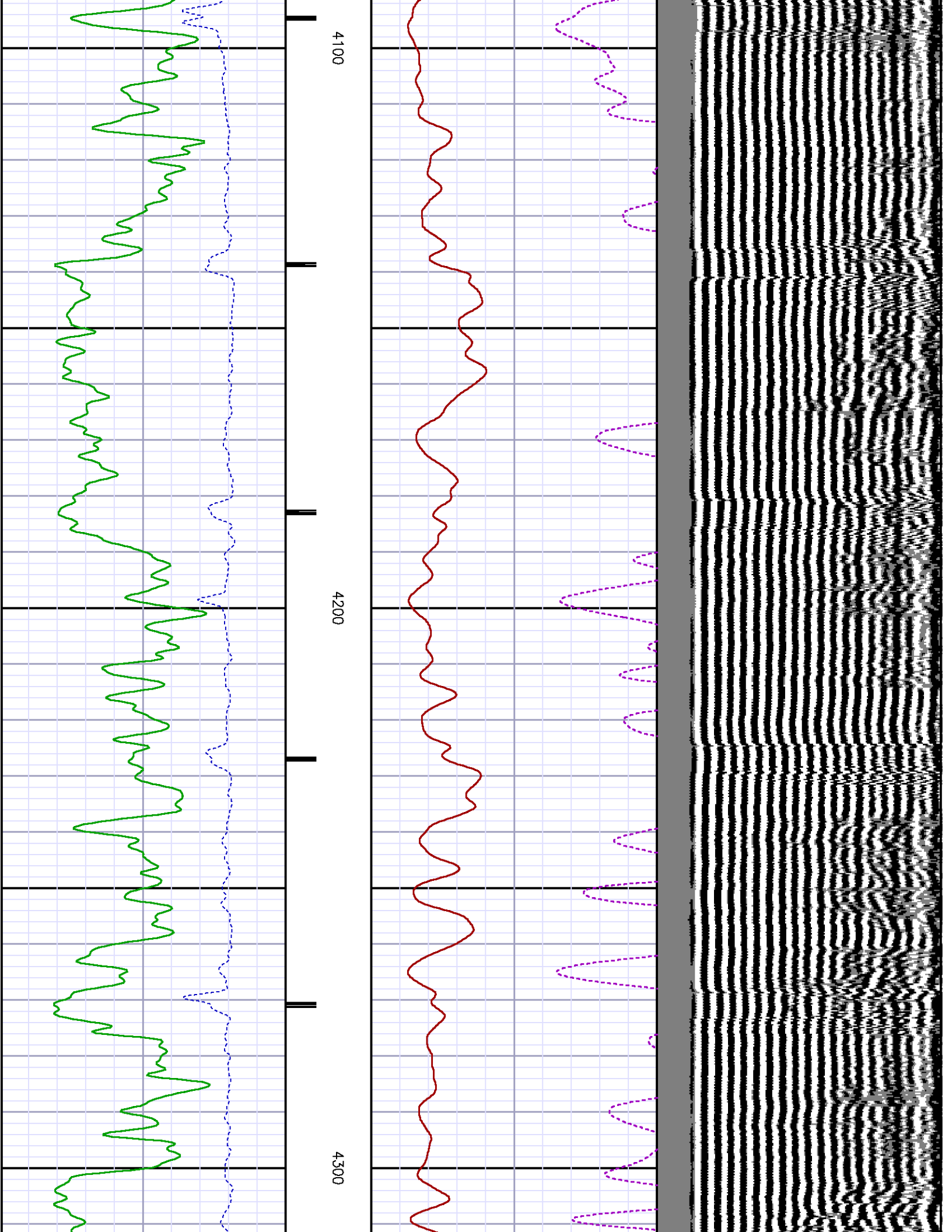


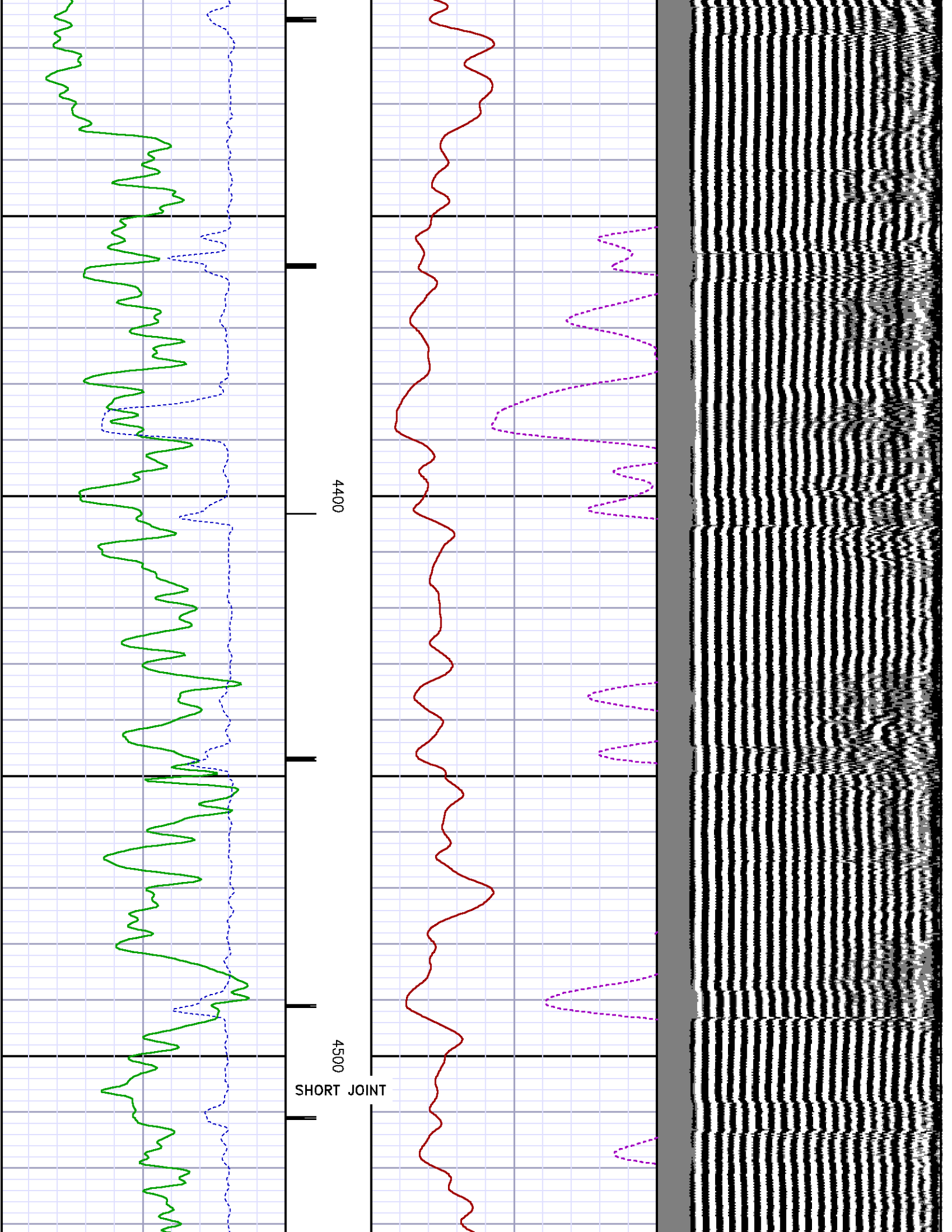


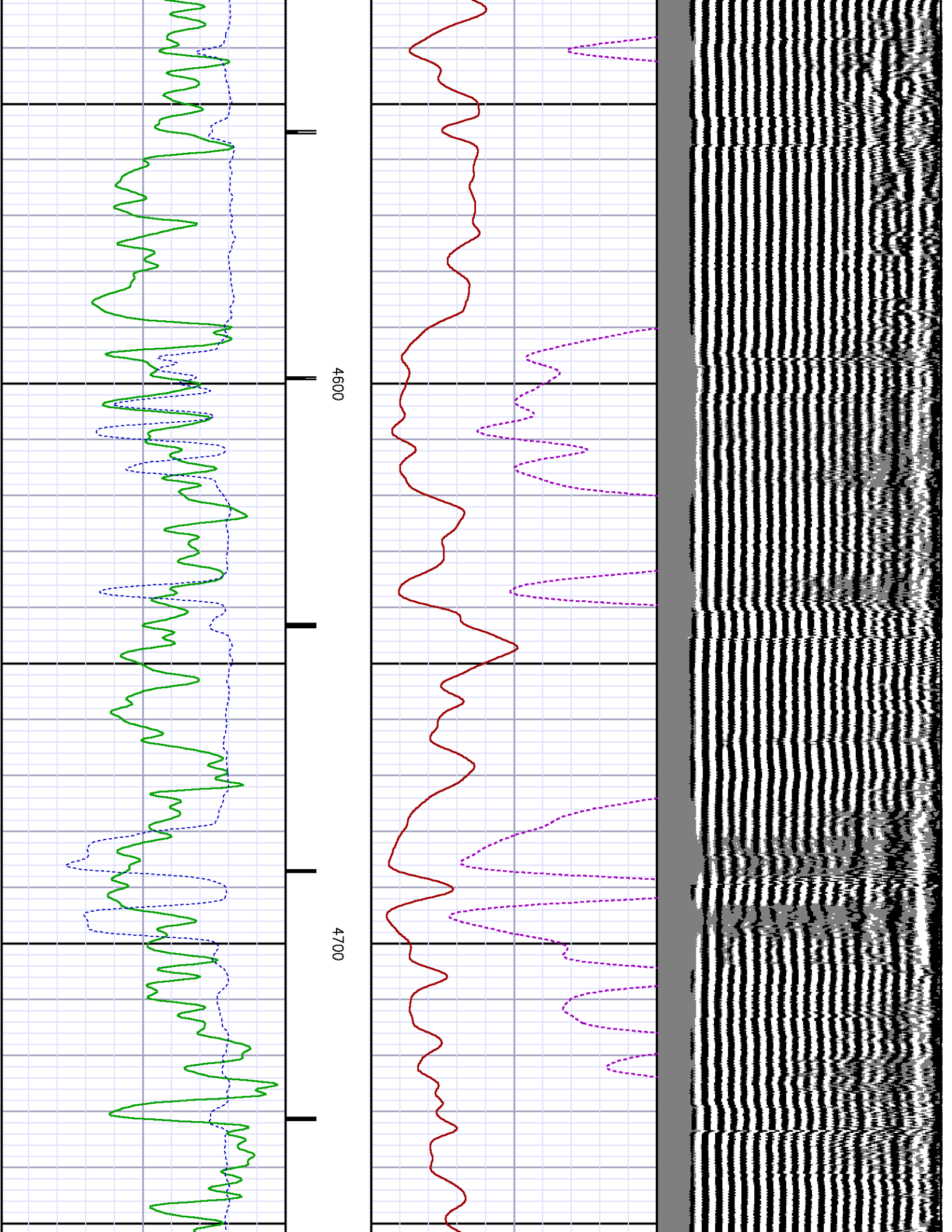


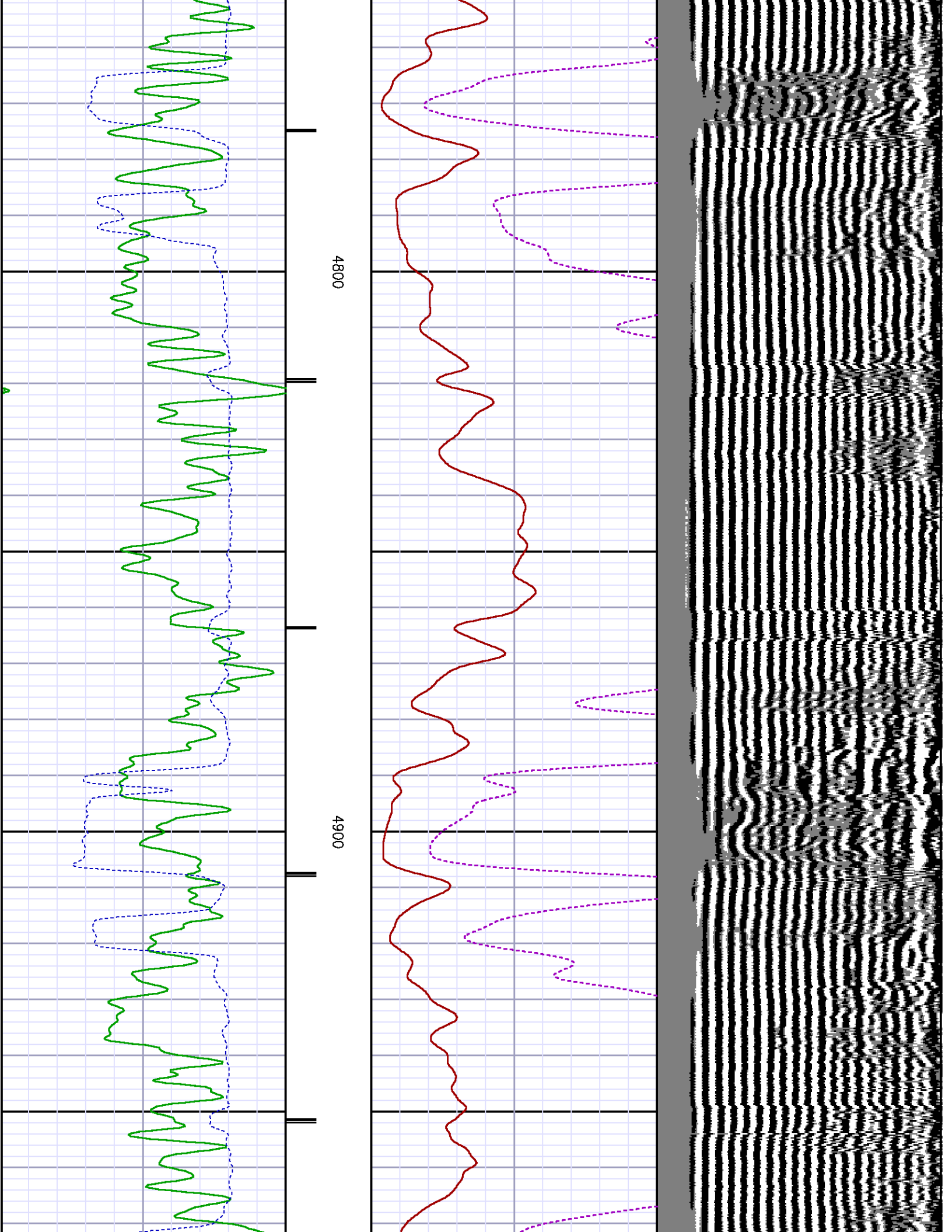


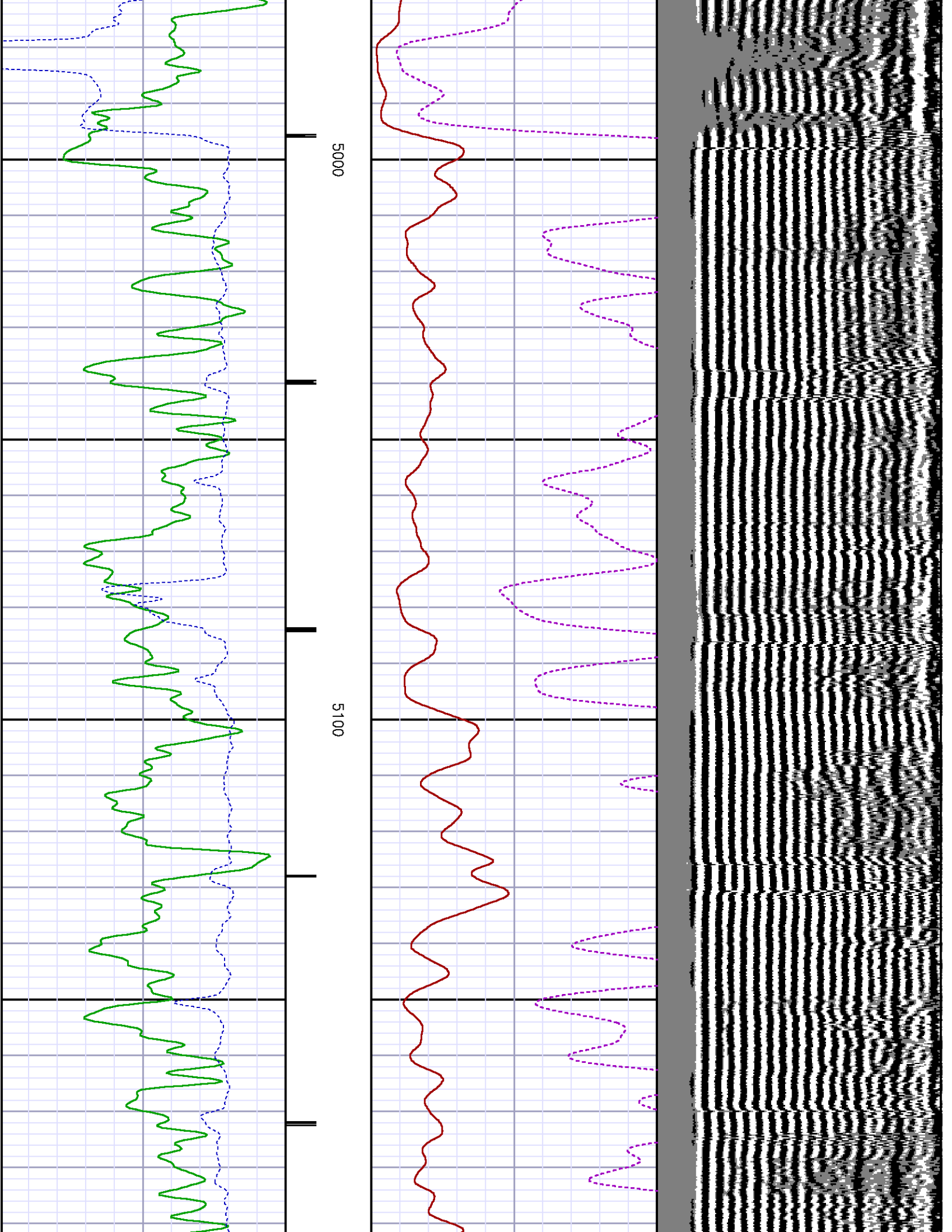


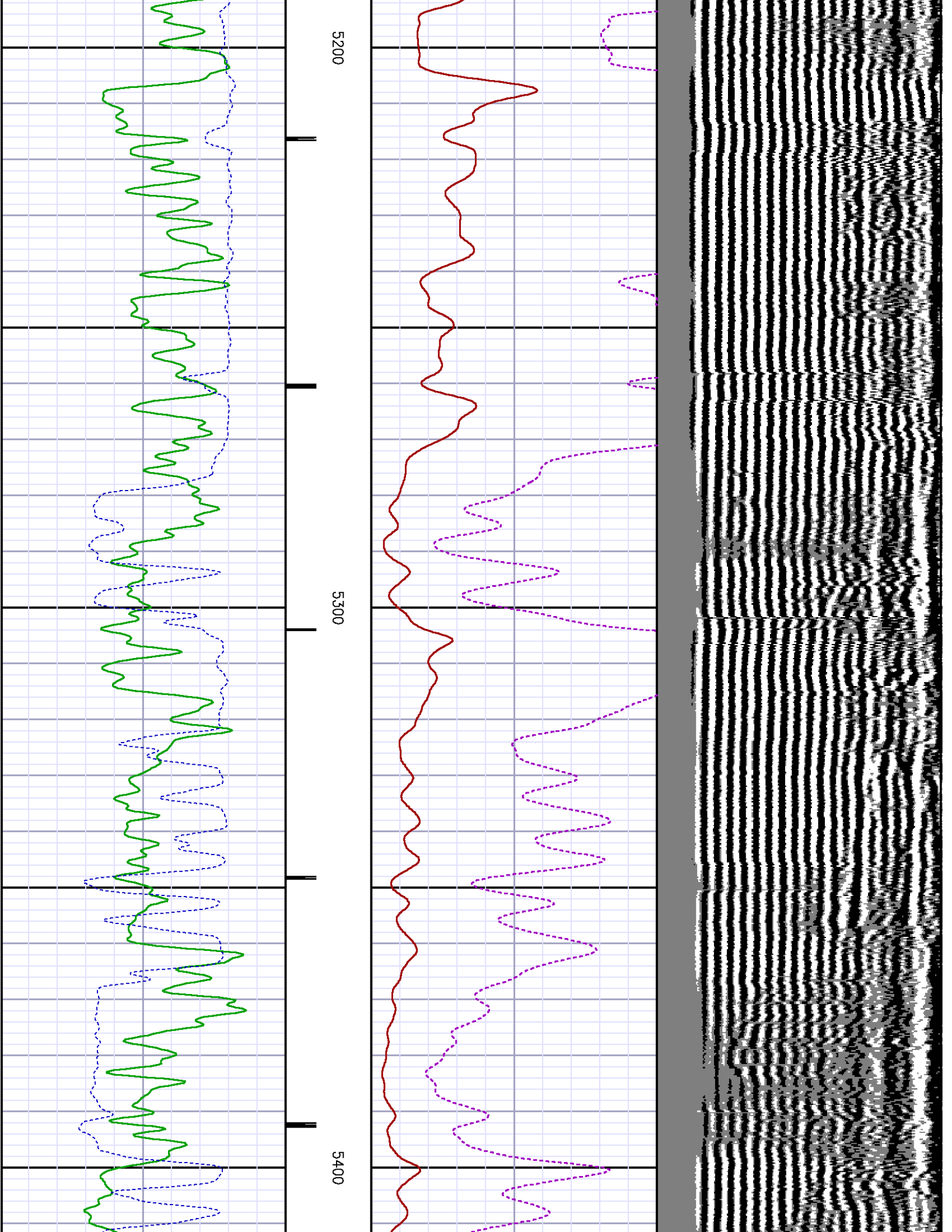


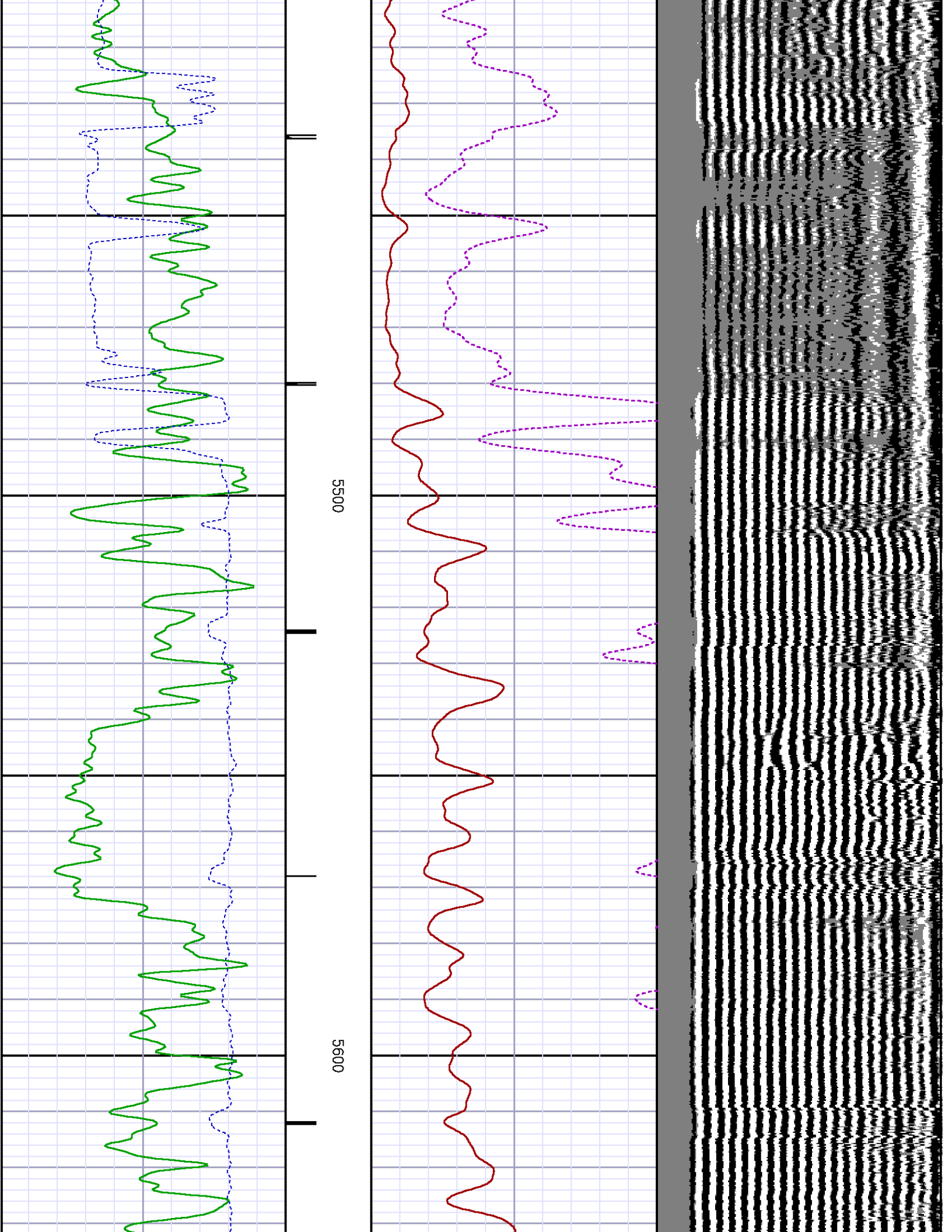


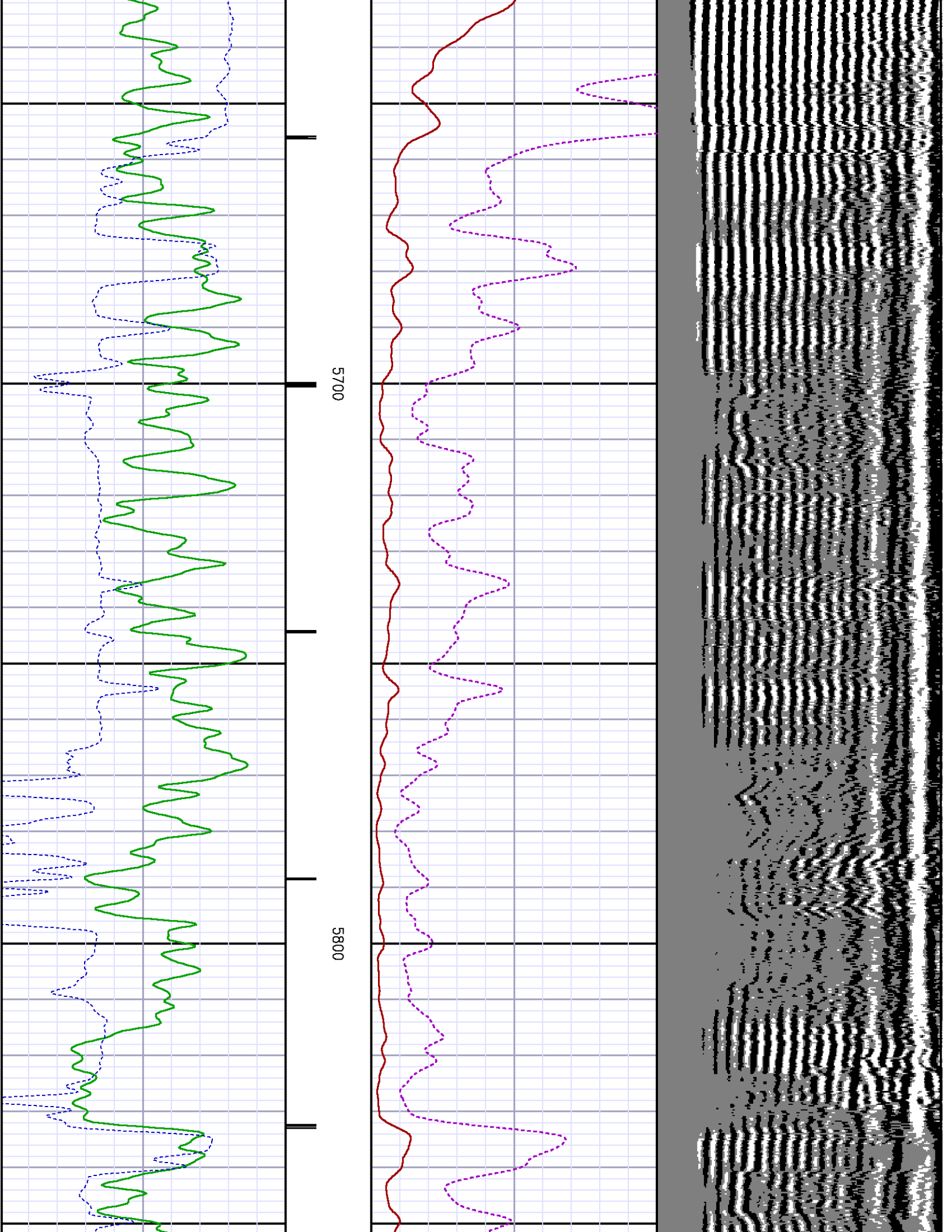


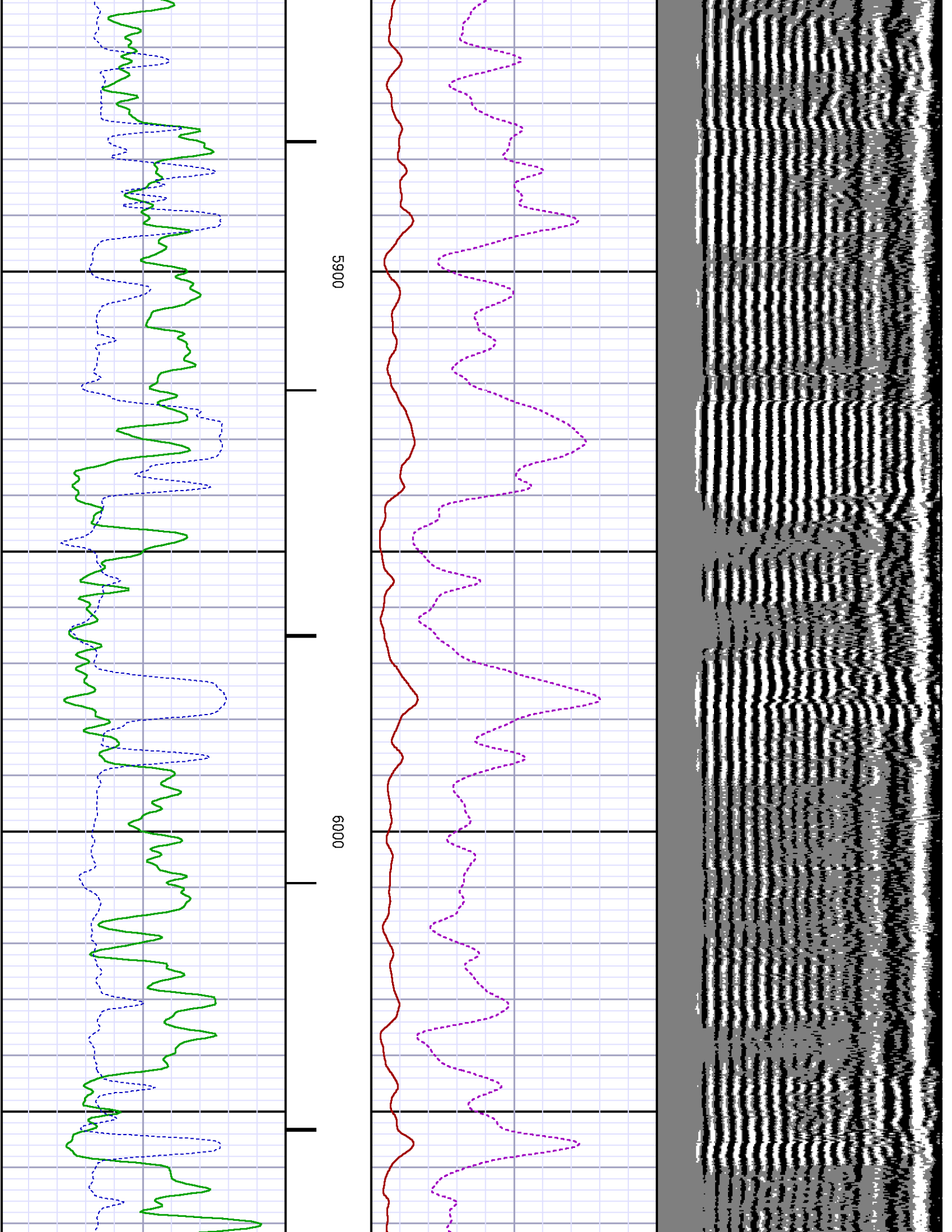


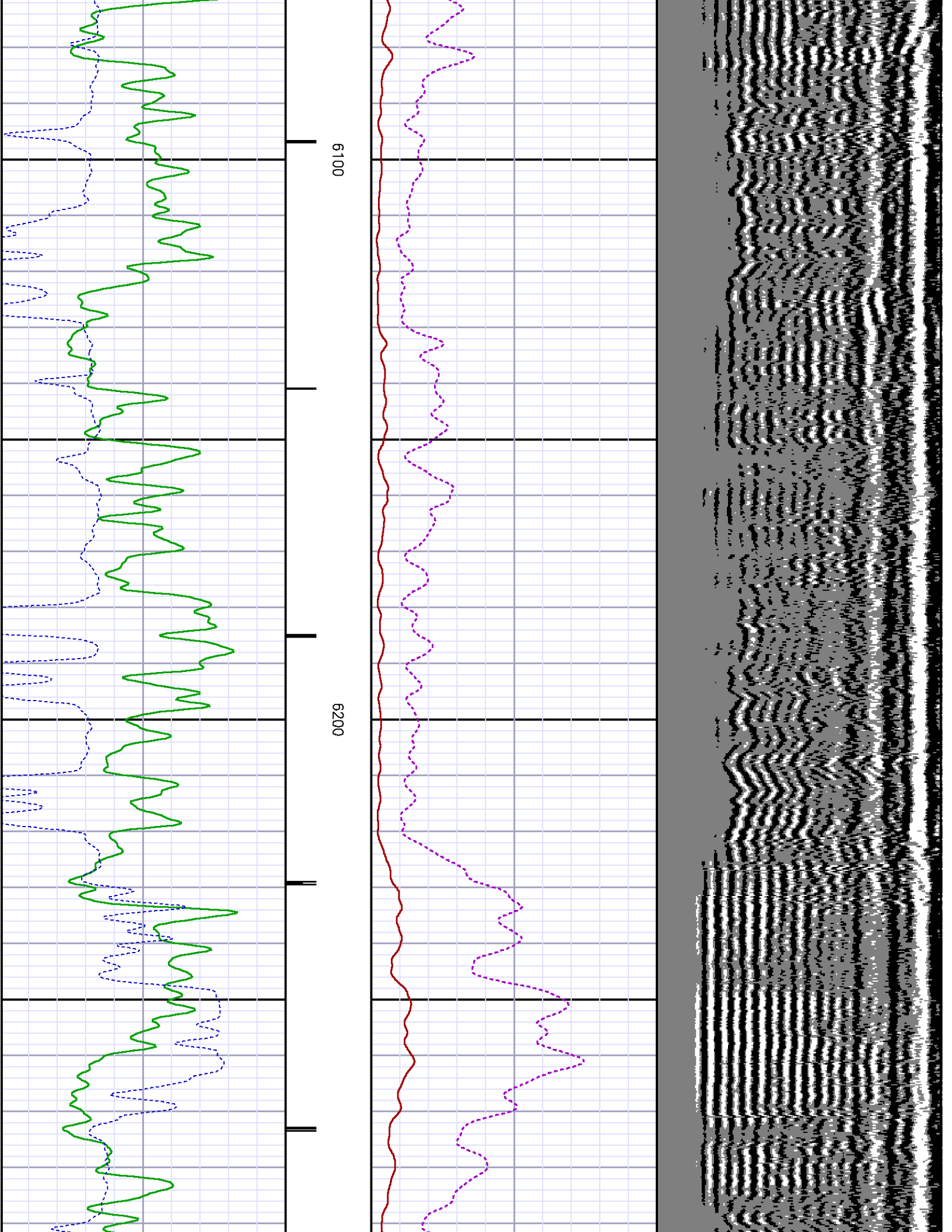


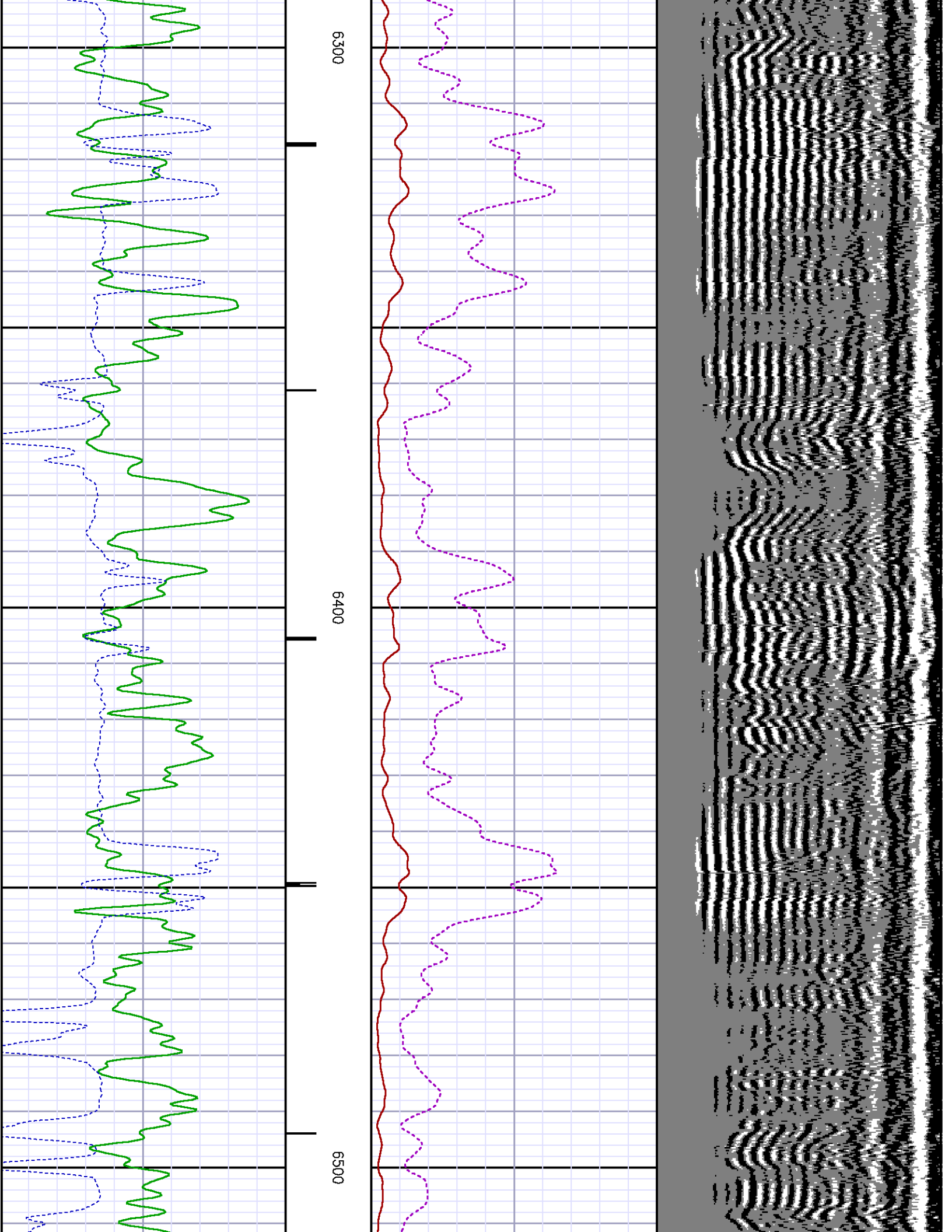


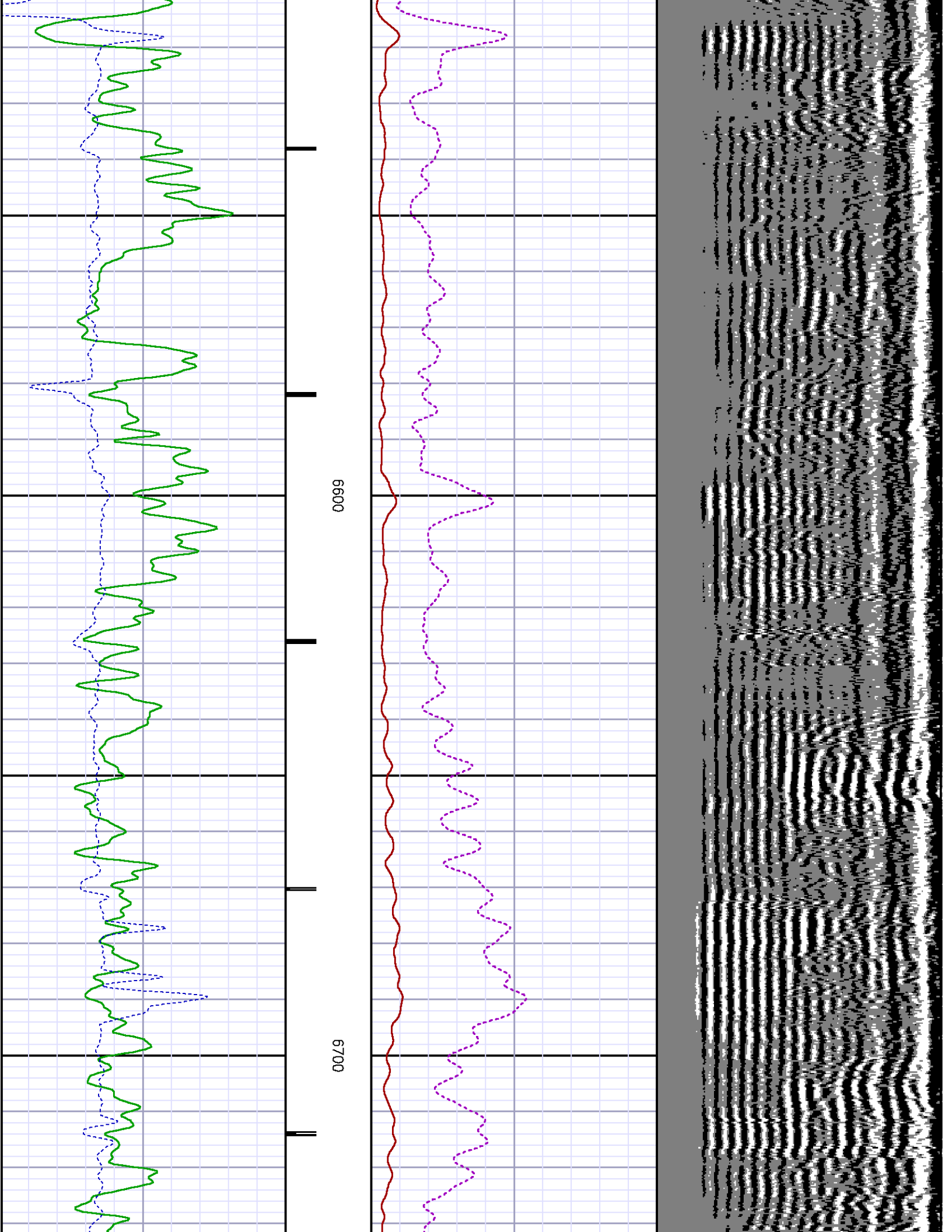


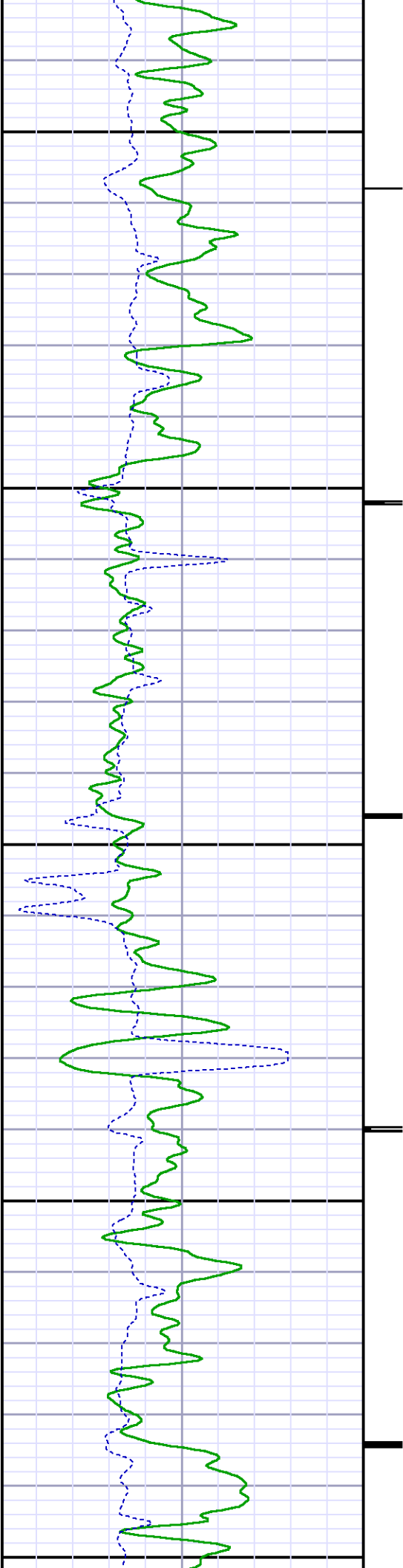






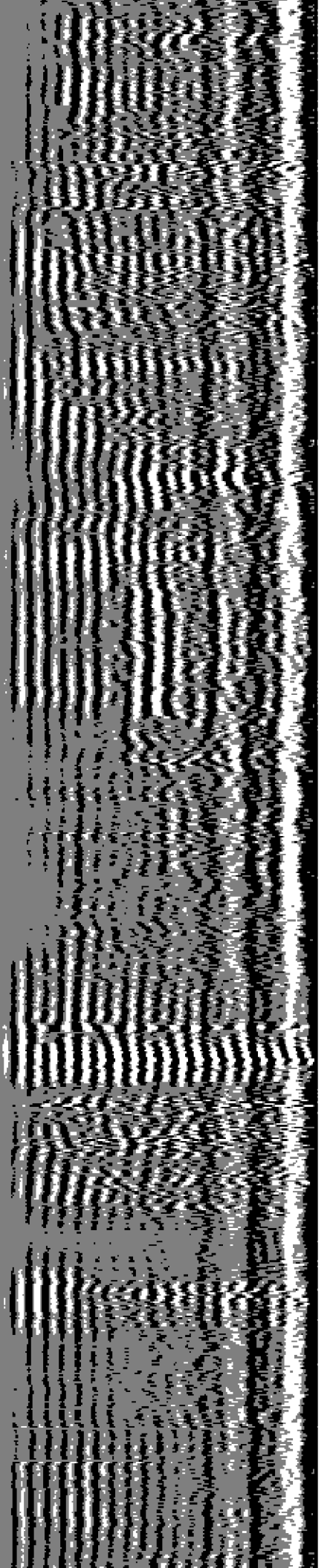


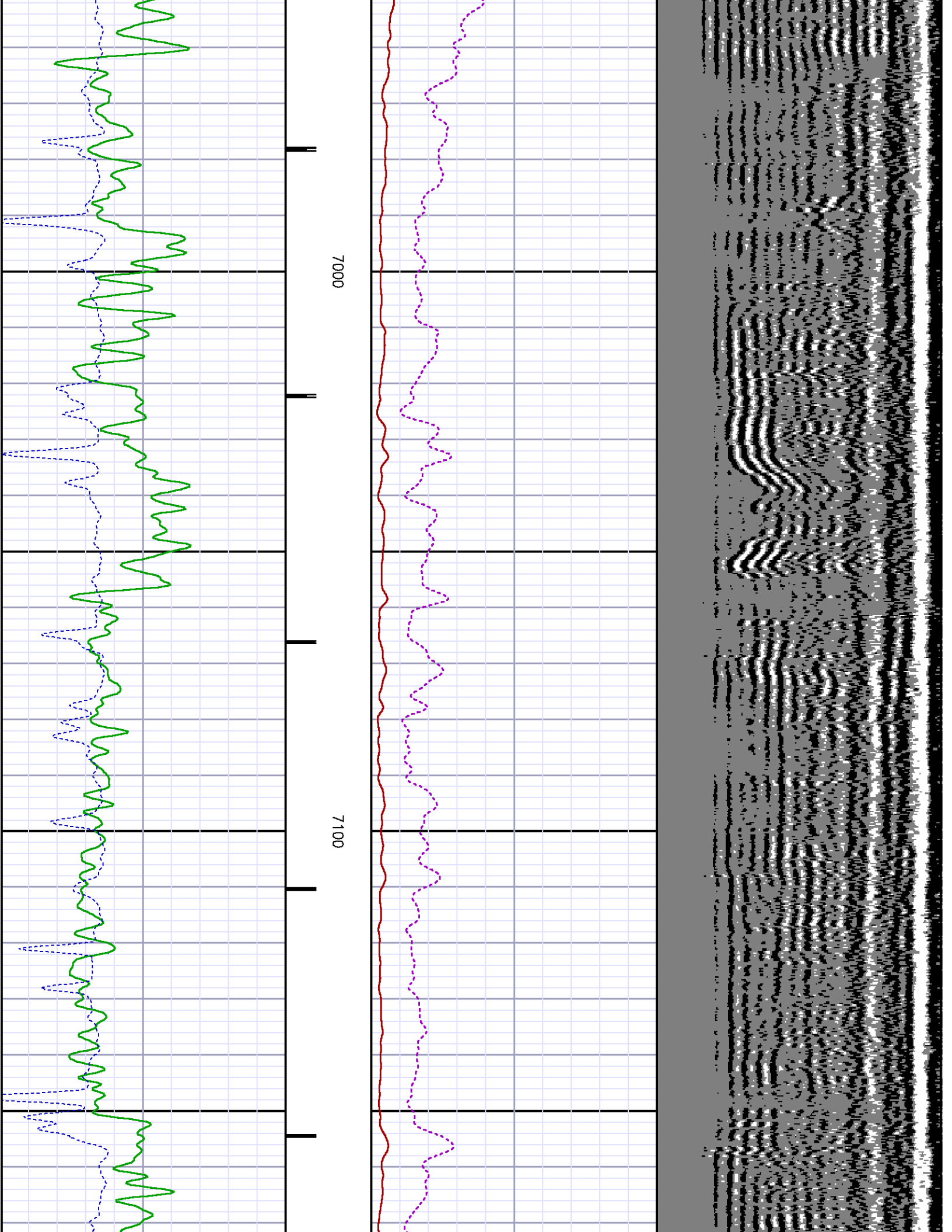


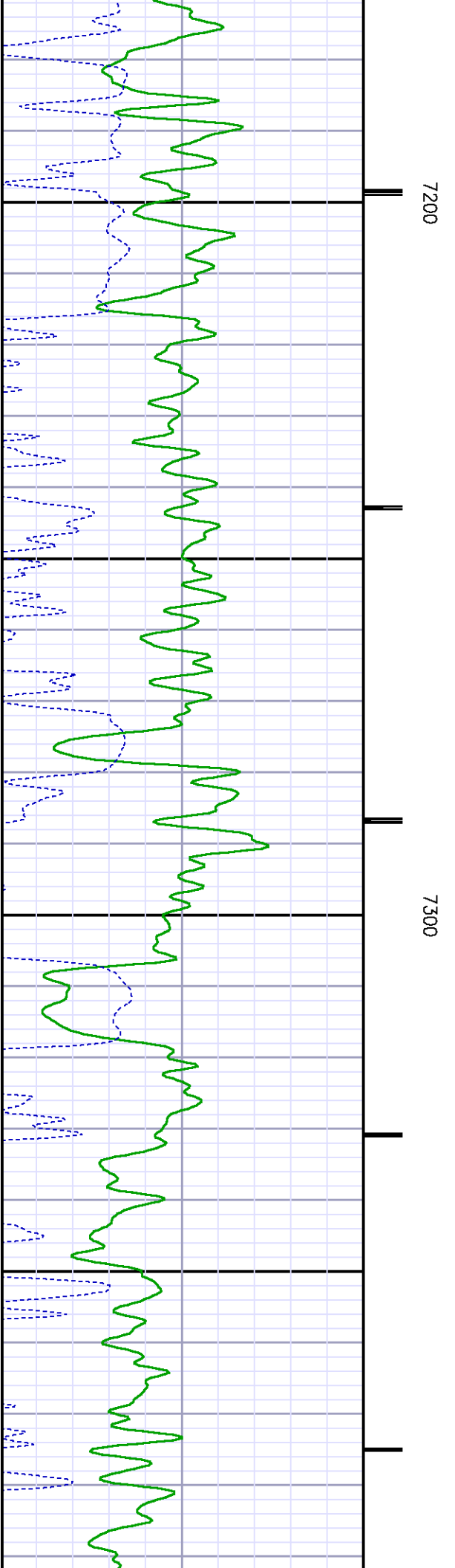
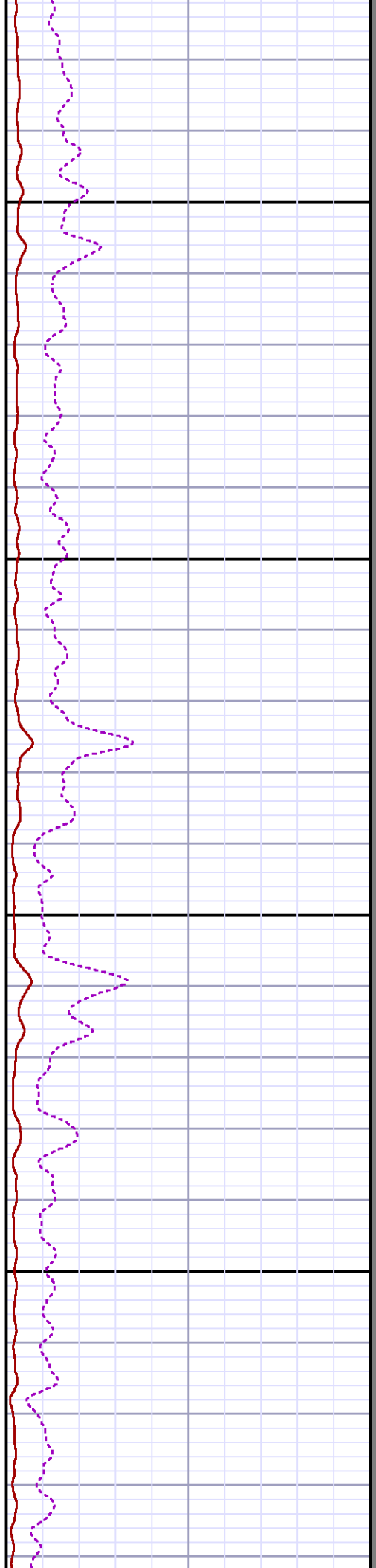
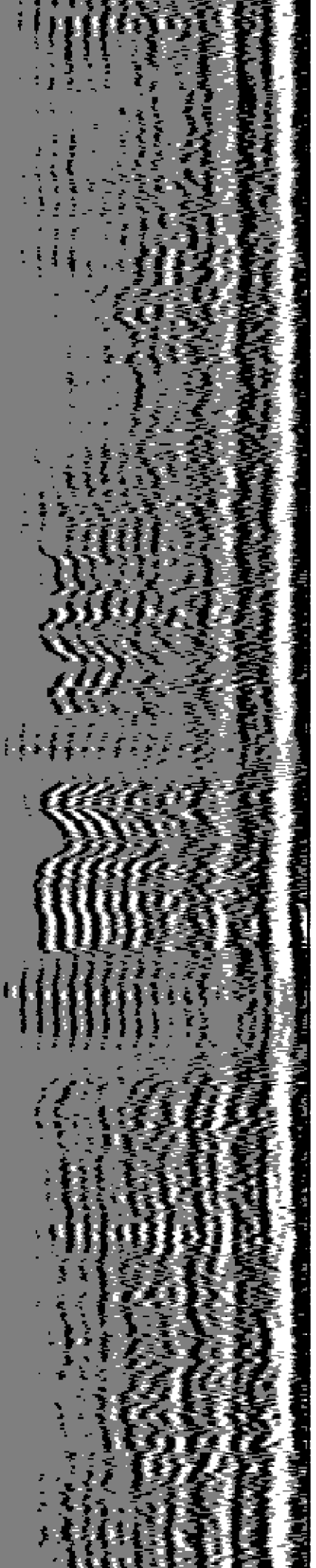


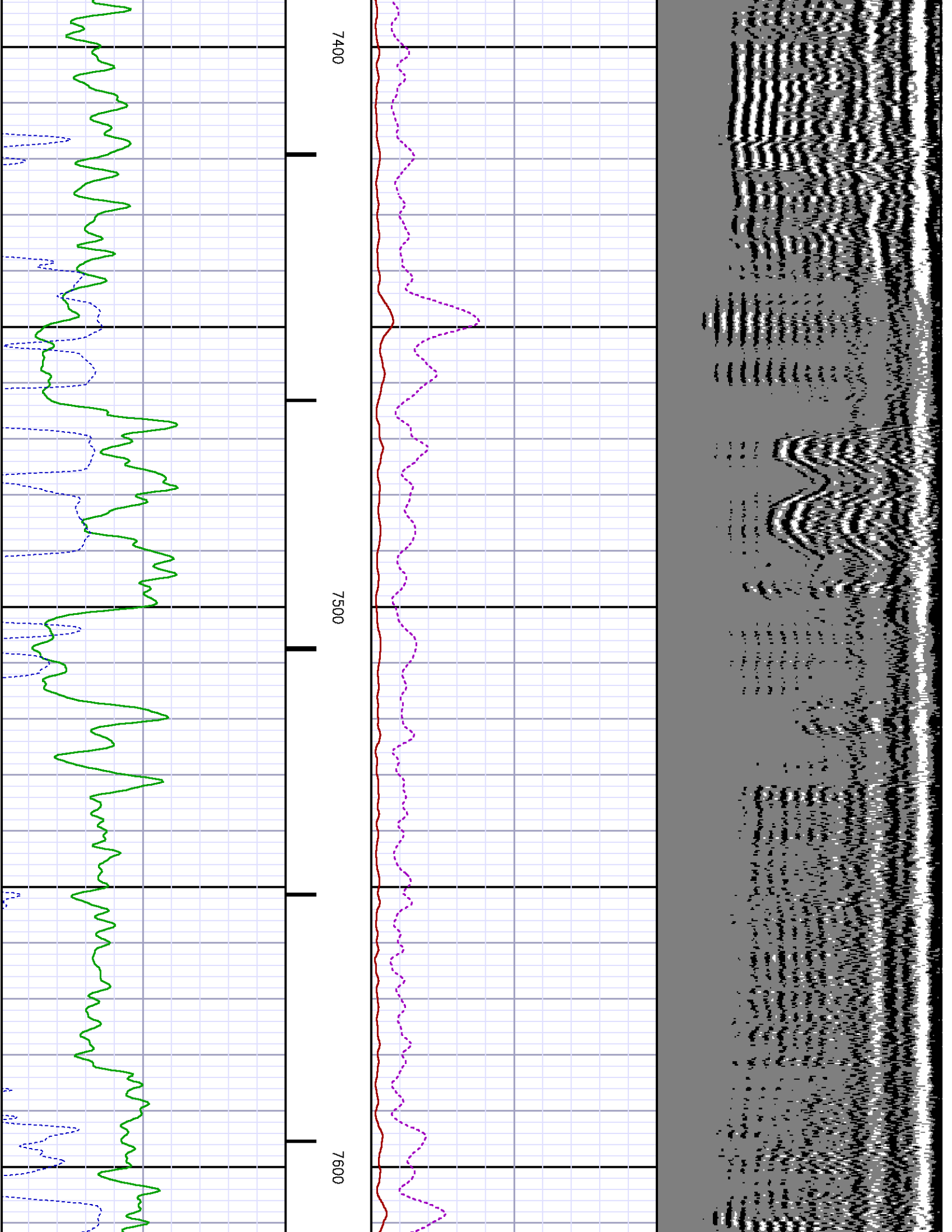
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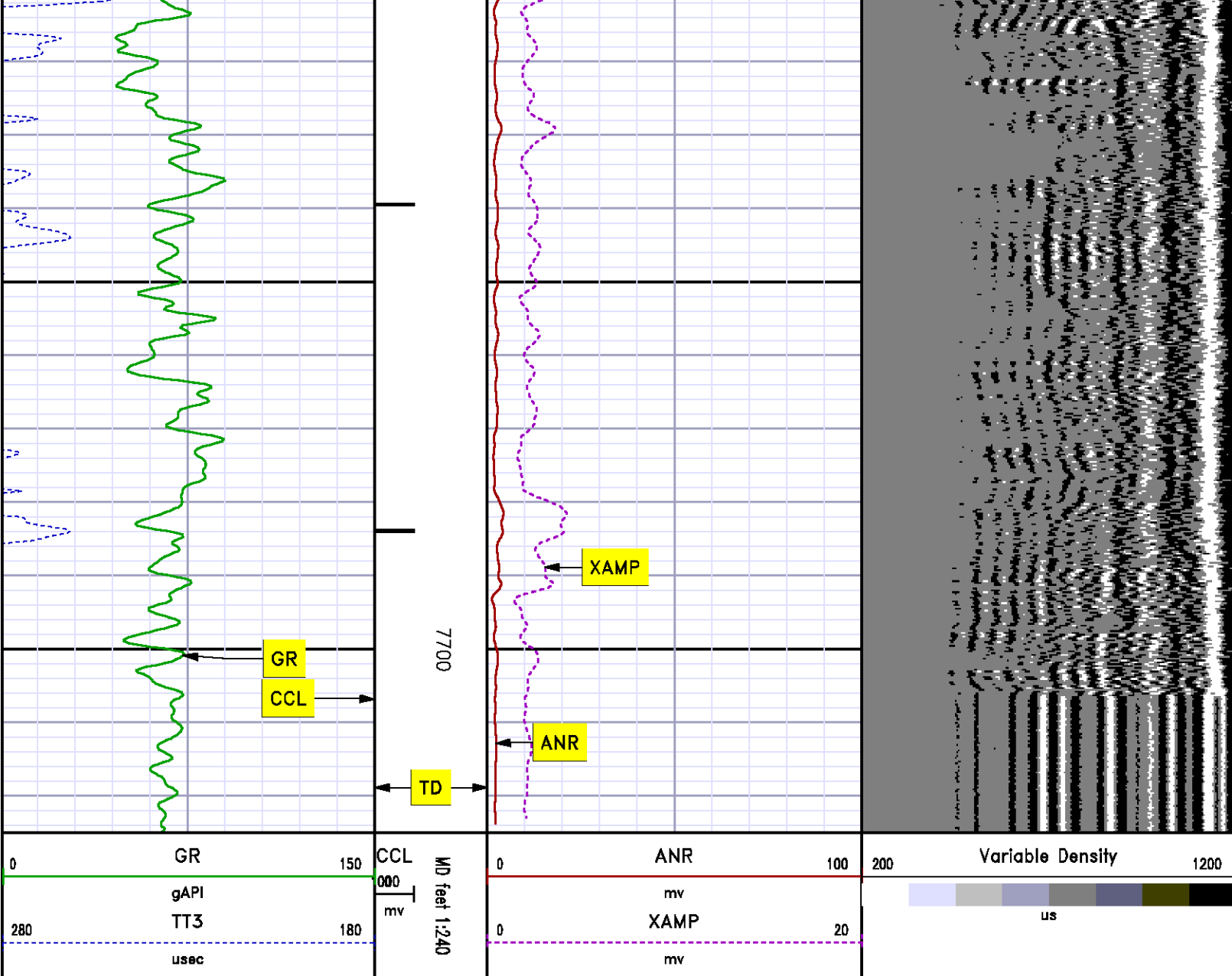
0069











SECONDARY PRESENTATION

0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	usec	36.312	7741.500
RAL	Amp Gate Start Near	195.000	usec	36.312	7741.500
RAL	Amp Gate Start Radial	195.000	usec	36.312	7741.500

RAL	Amp Gate Start Radial	195.000	usec	36.312	7741.500
RAL	Amp Gate Width Far	25.000	usec	36.312	7741.500
RAL	Amp Gate Width Near	25.000	usec	36.312	7741.500
RAL	Amp Gate Width Radial	25.000	usec	36.312	7741.500
RAL	casing od	4.500	inches	36.312	7741.500
RAL	casing wt	11.600	lbm/ft	36.312	7741.500
RAL	FB Start Far	291.900	usec	36.312	7741.500
RAL	FB Start Near	180.000	usec	36.312	7741.500
RAL	FB Start Radial	180.000	usec	36.312	7741.500
RAL	FB Thresh Far	15.000	mv	36.312	7741.500
RAL	FB Thresh Near	10.000	mv	36.312	7741.500
RAL	FB Thresh Radial	10.000	mv	36.312	7741.500
RAL	Fluid Travel Time	200.000	usec/ft	36.312	7741.437

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

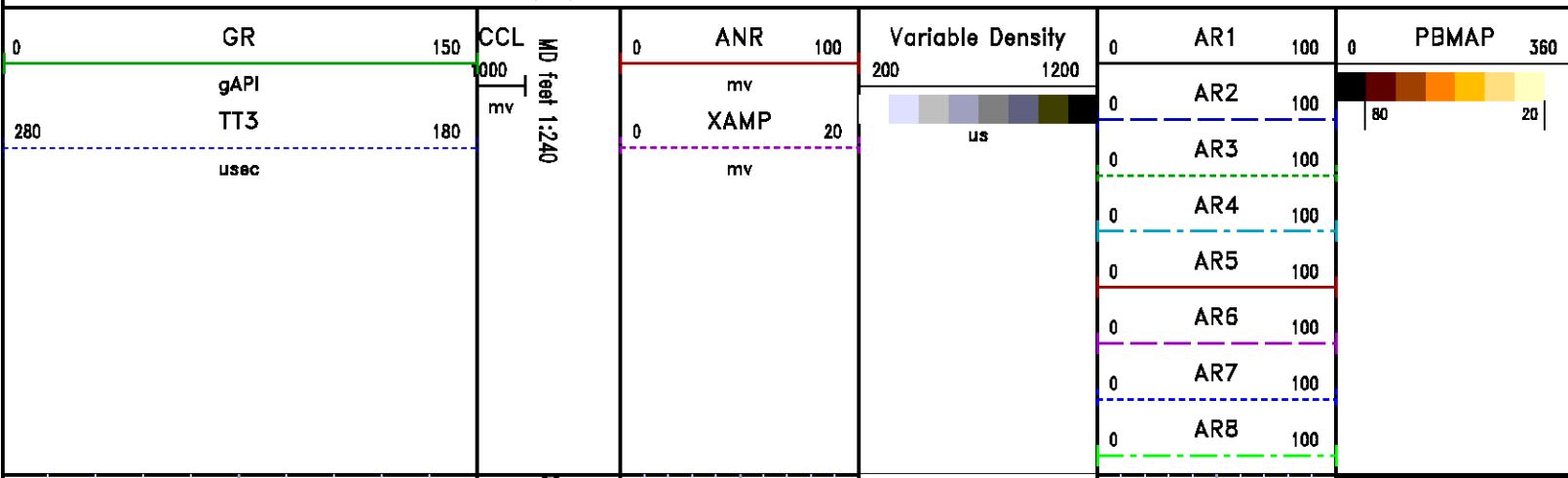
Well : JOLLEY KP 344-8

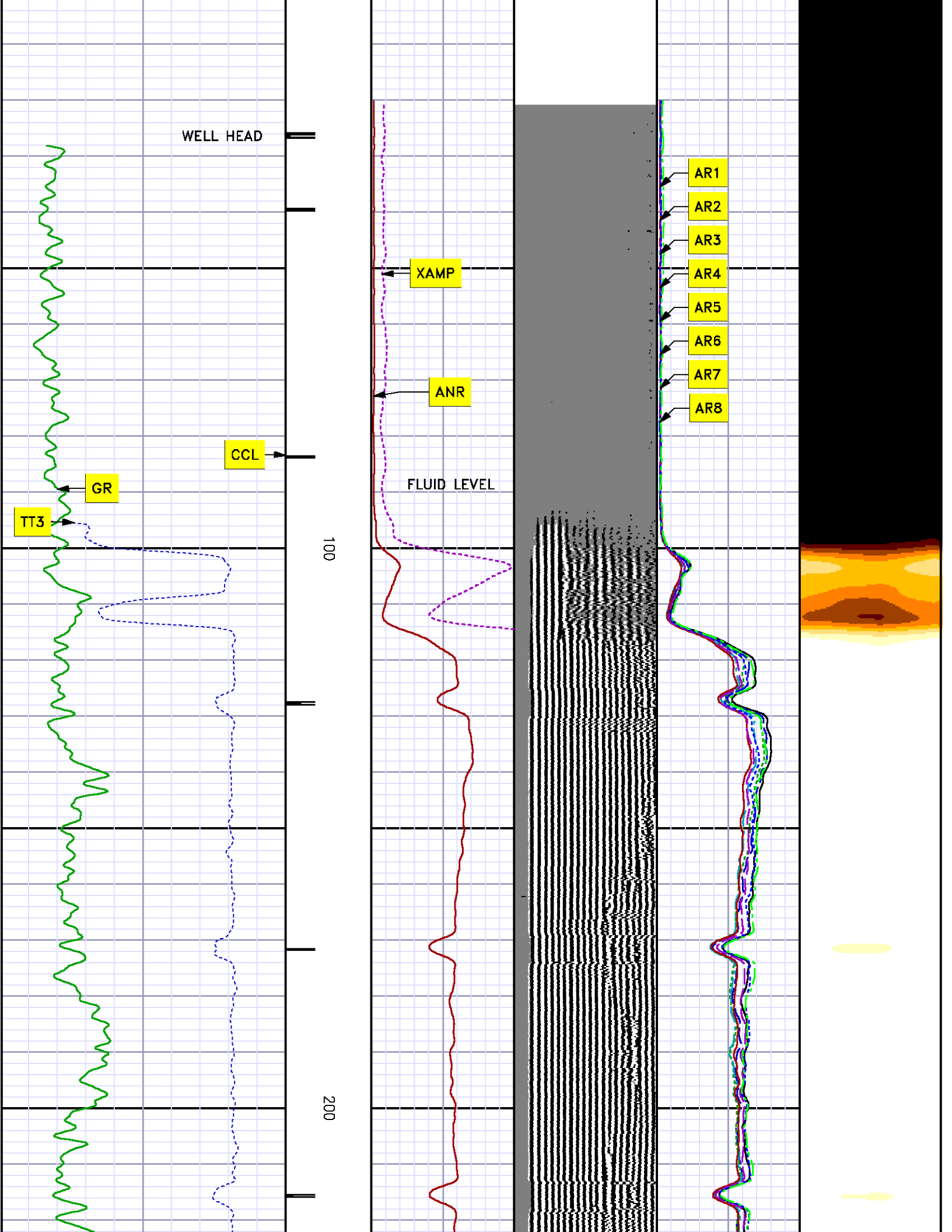
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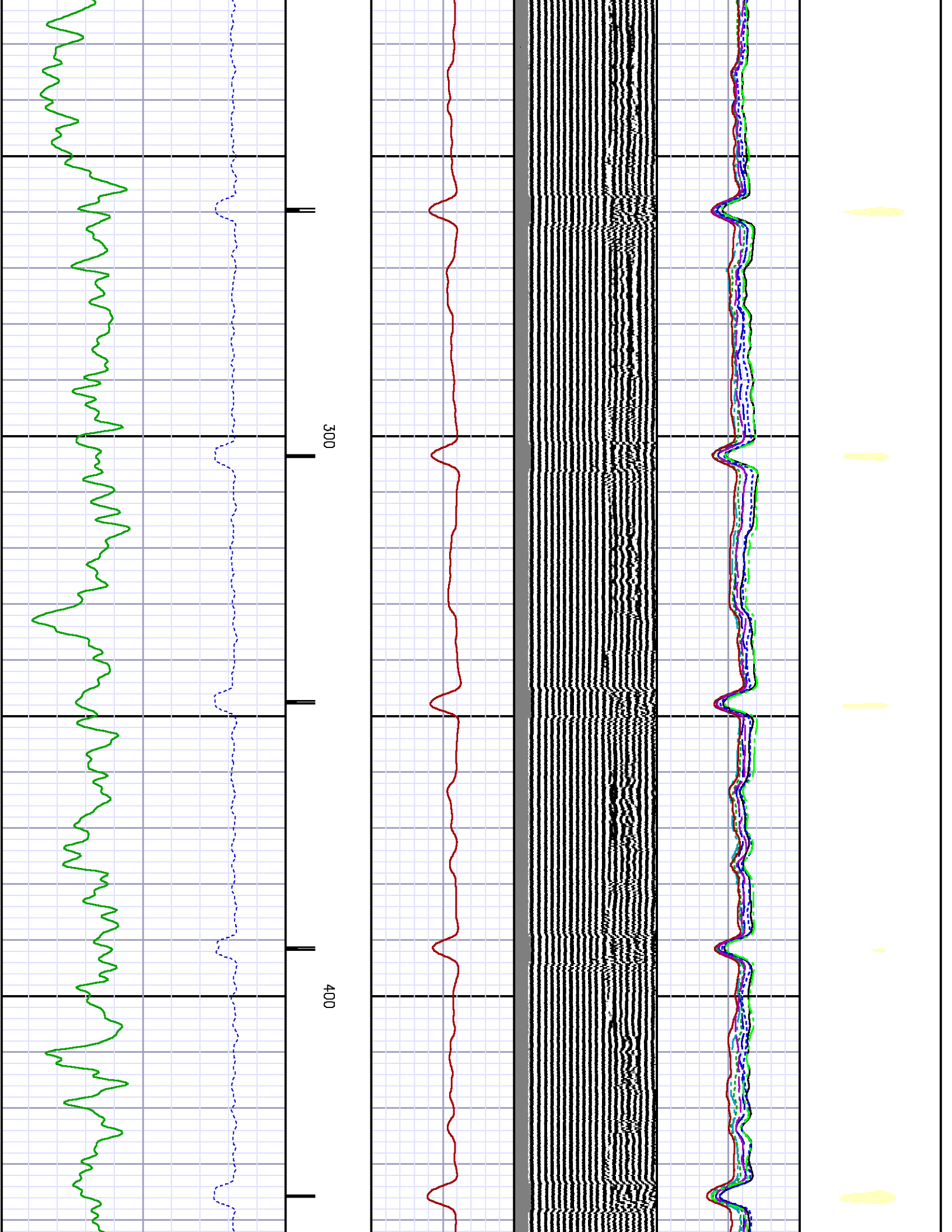
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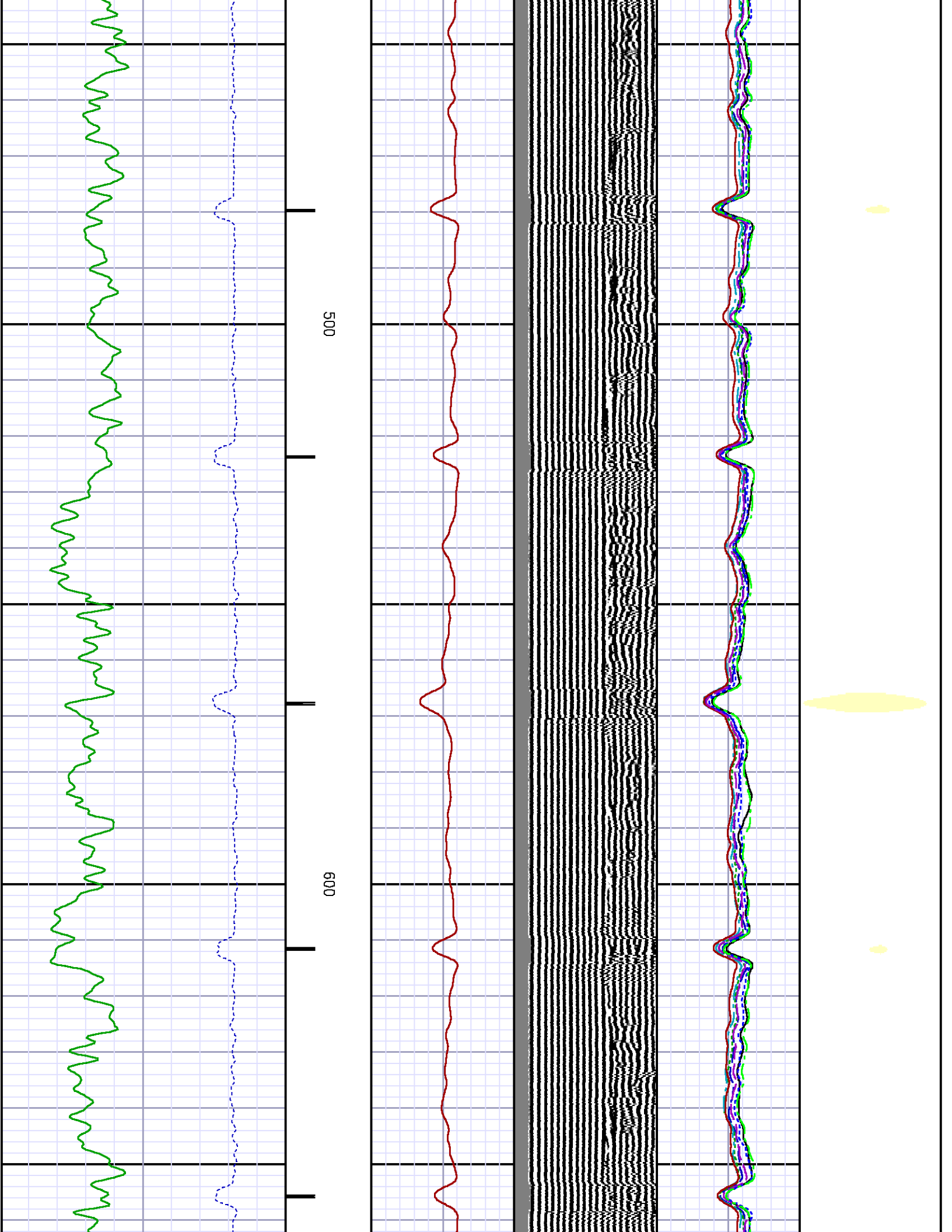
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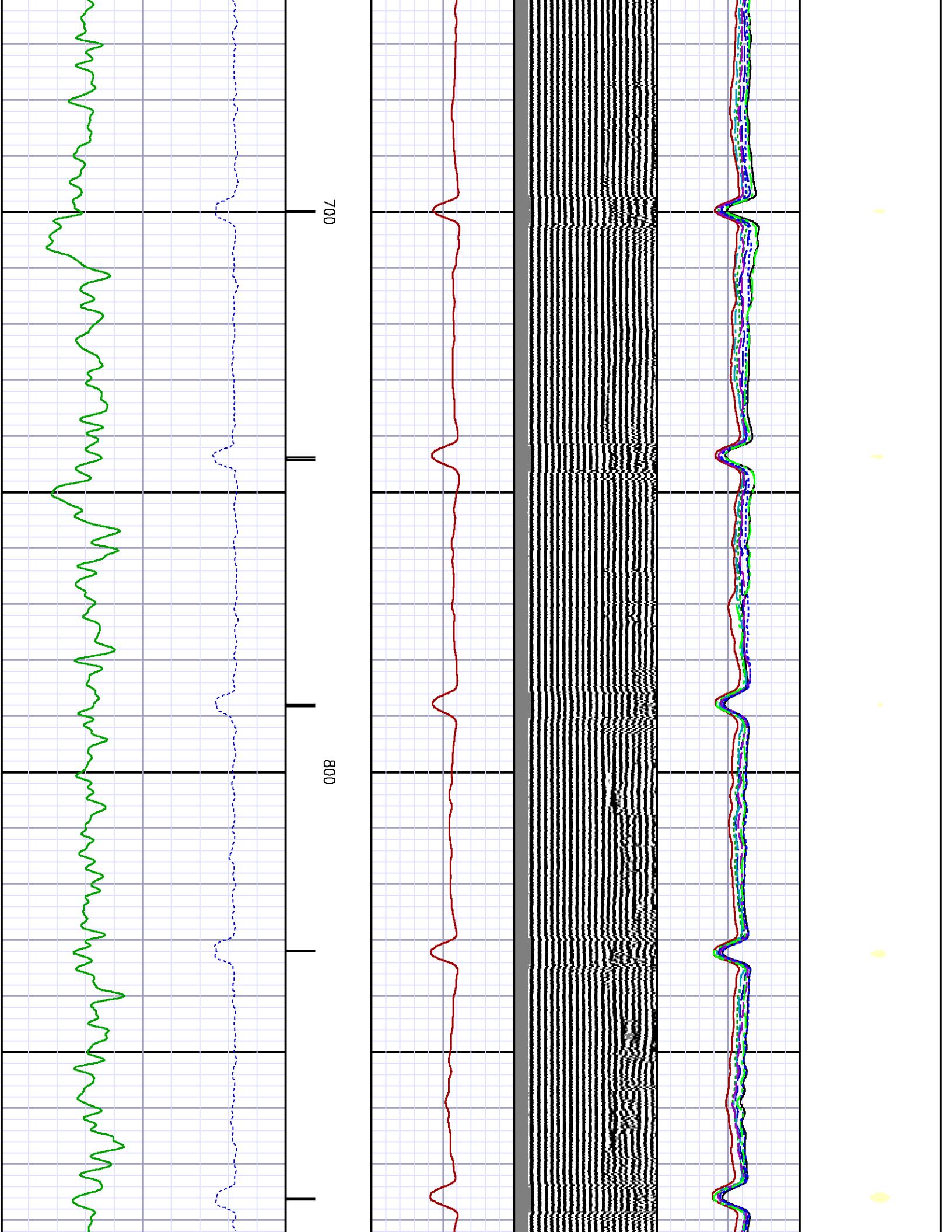
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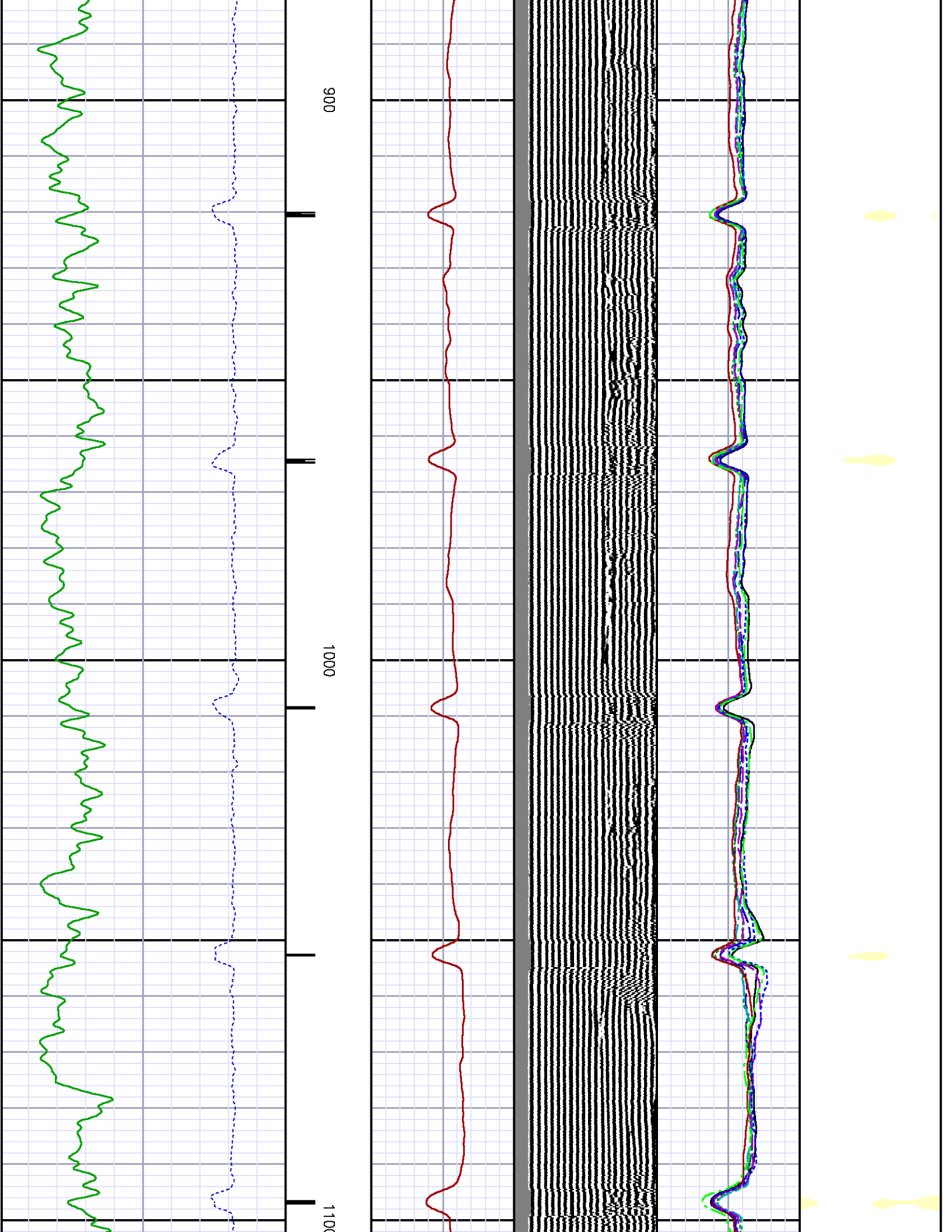


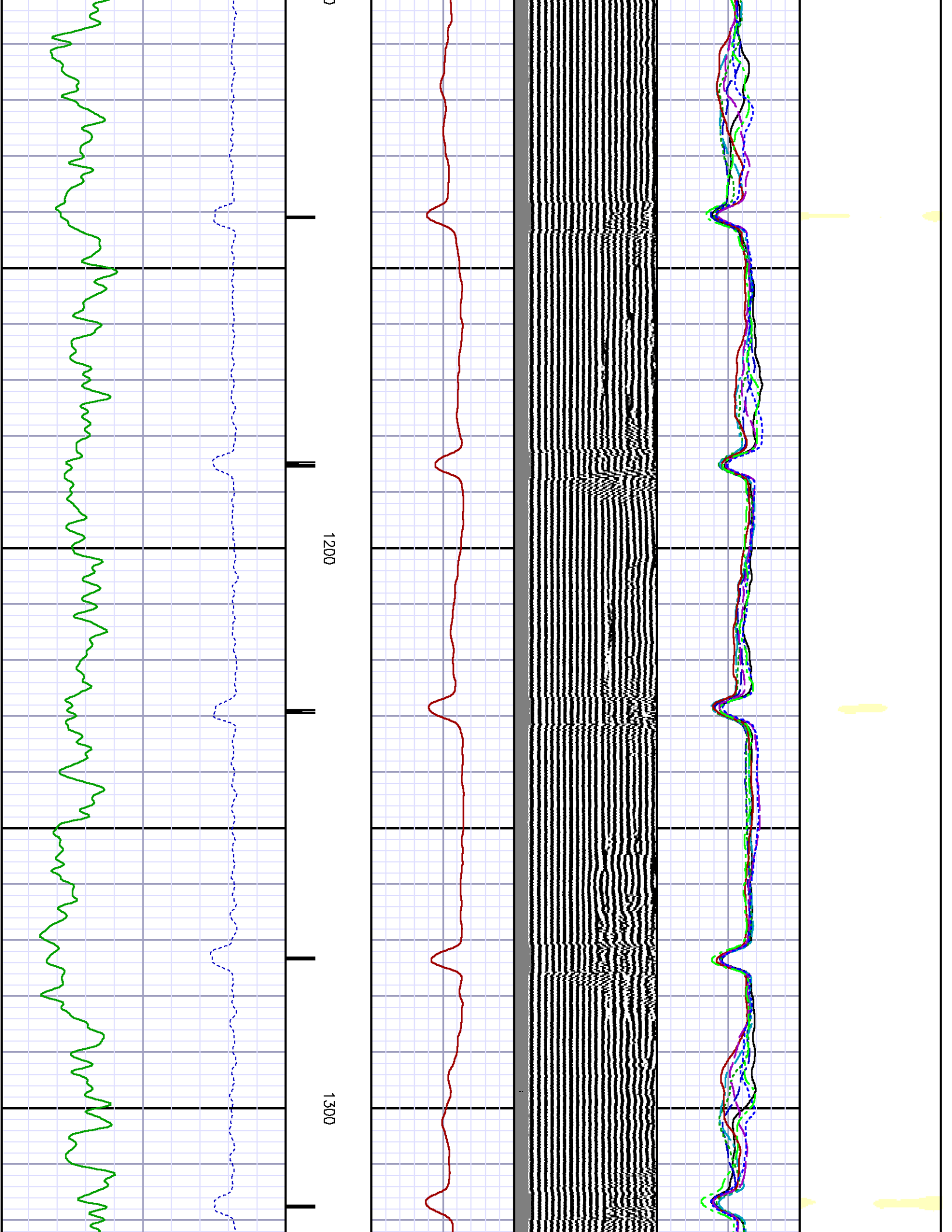


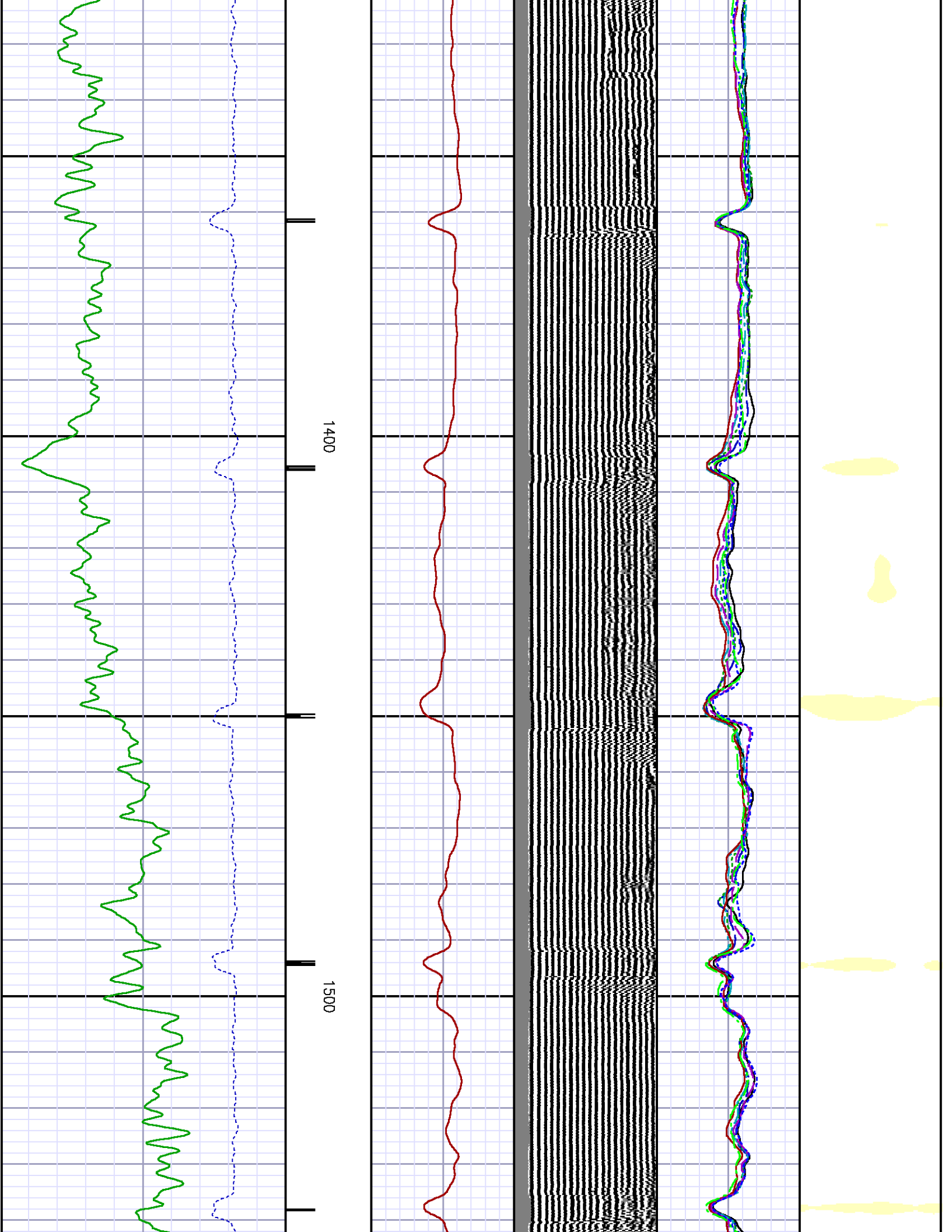


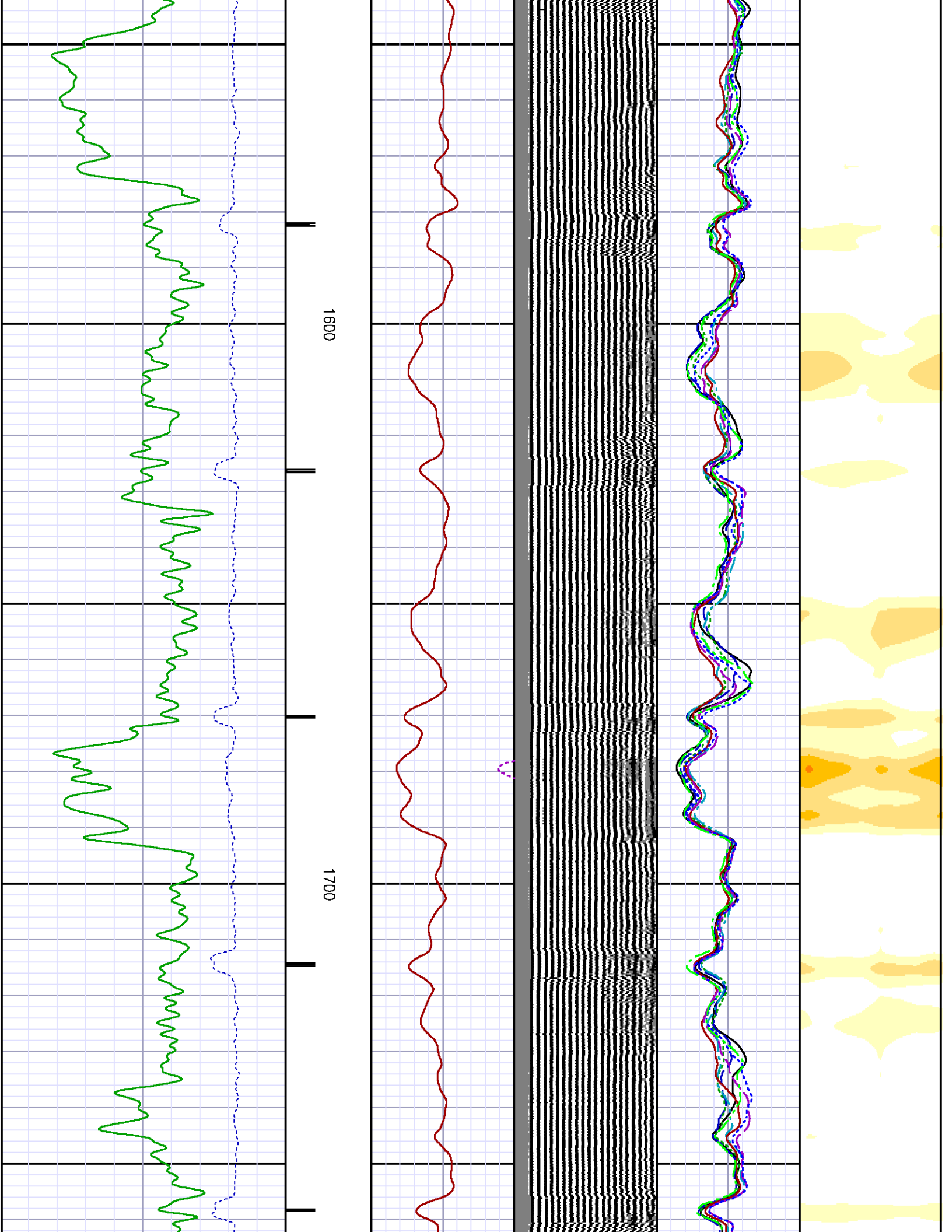


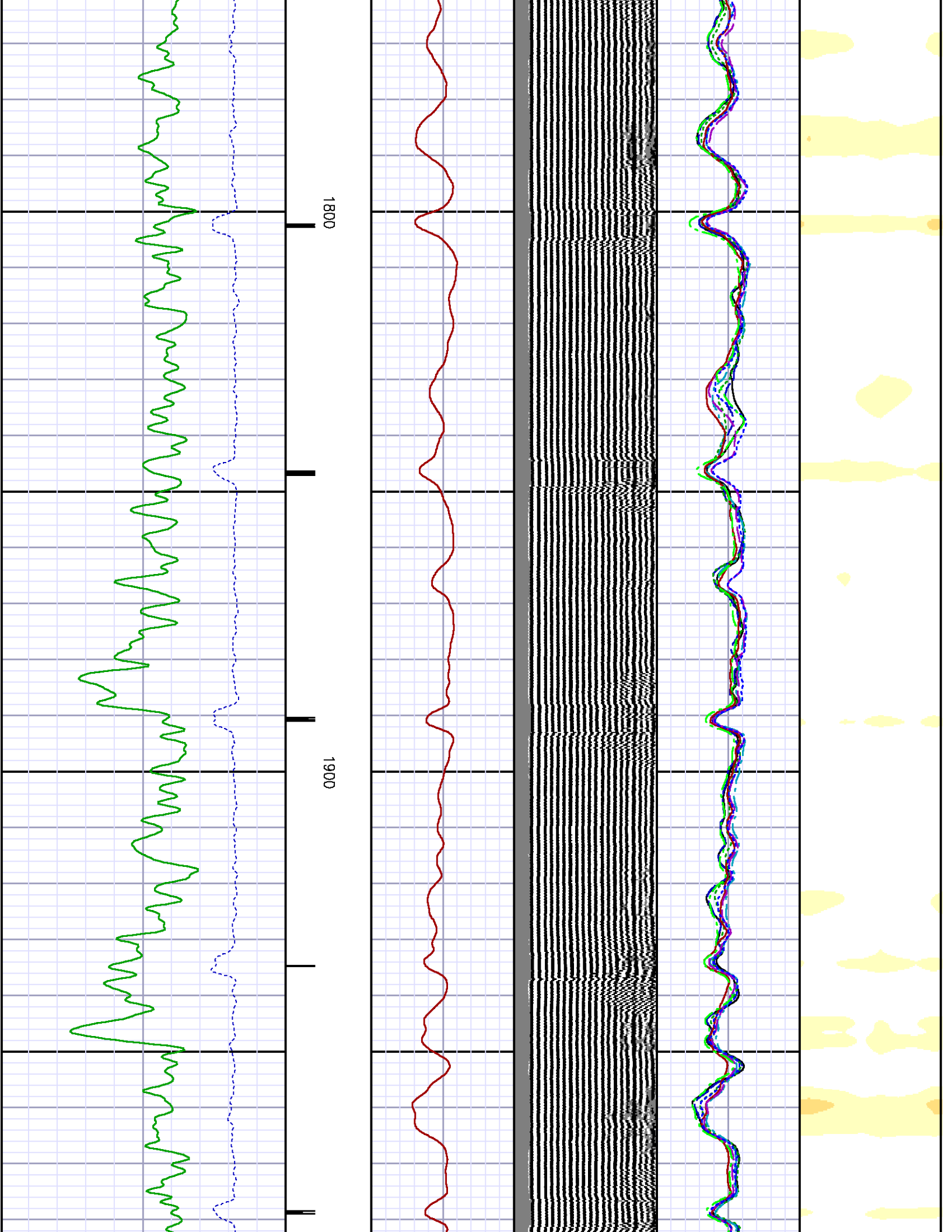


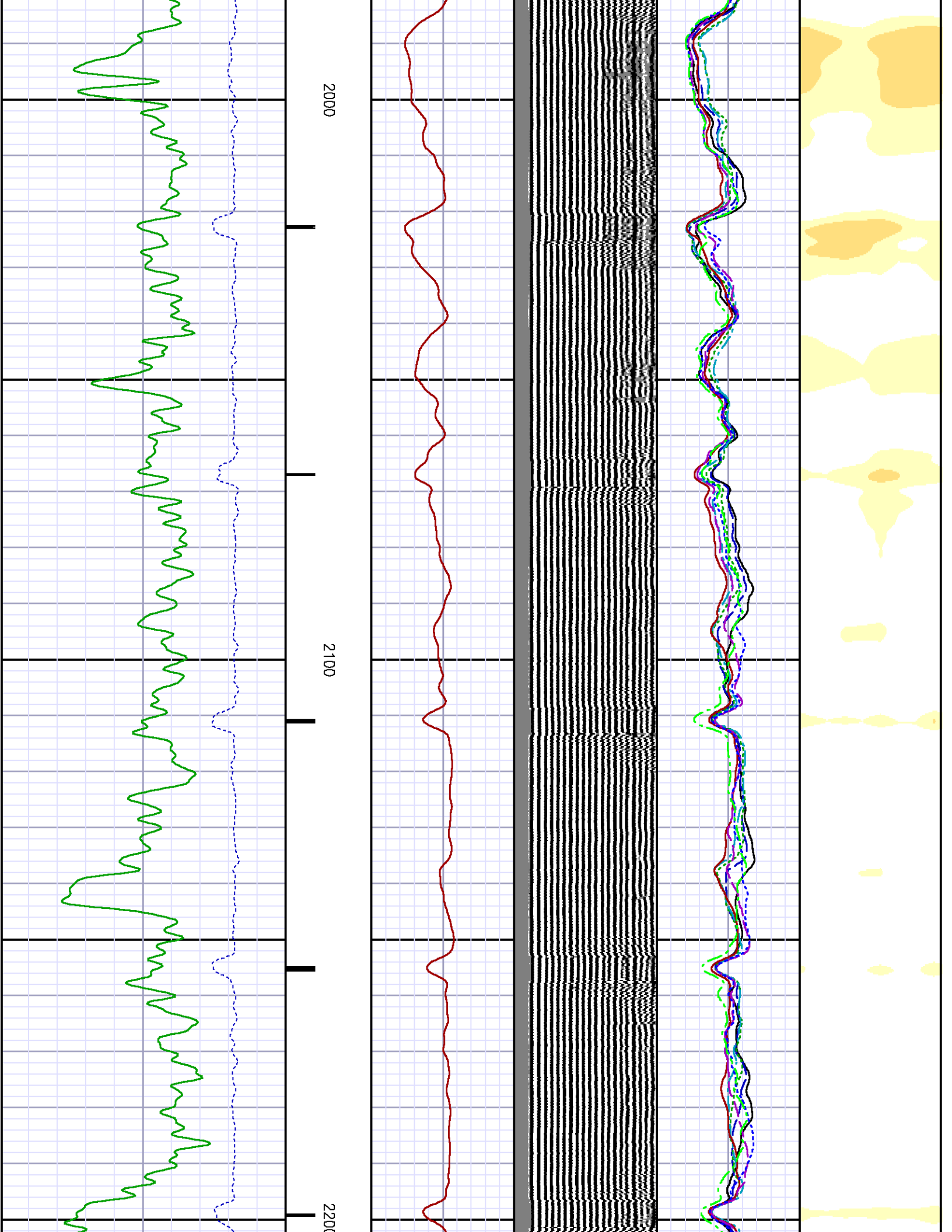


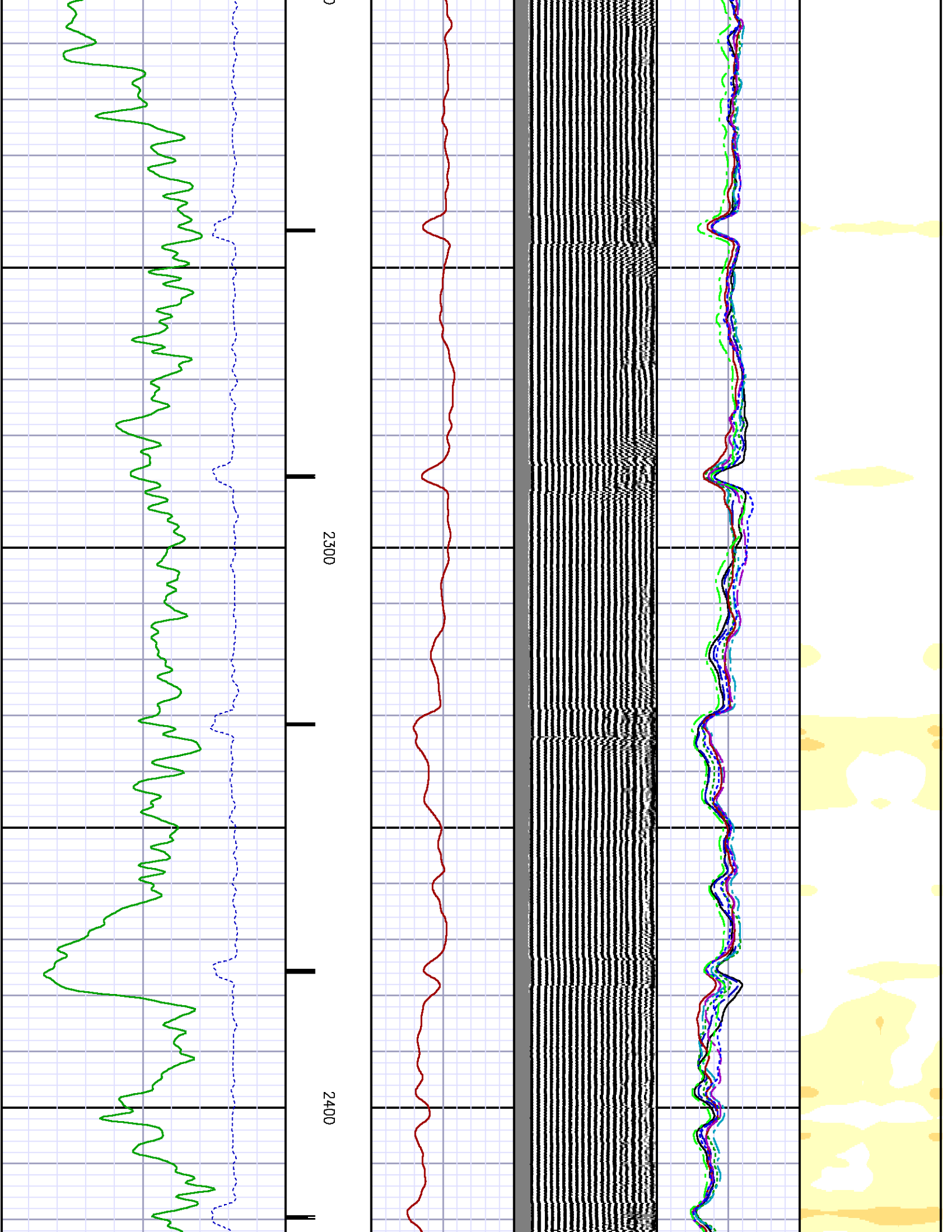


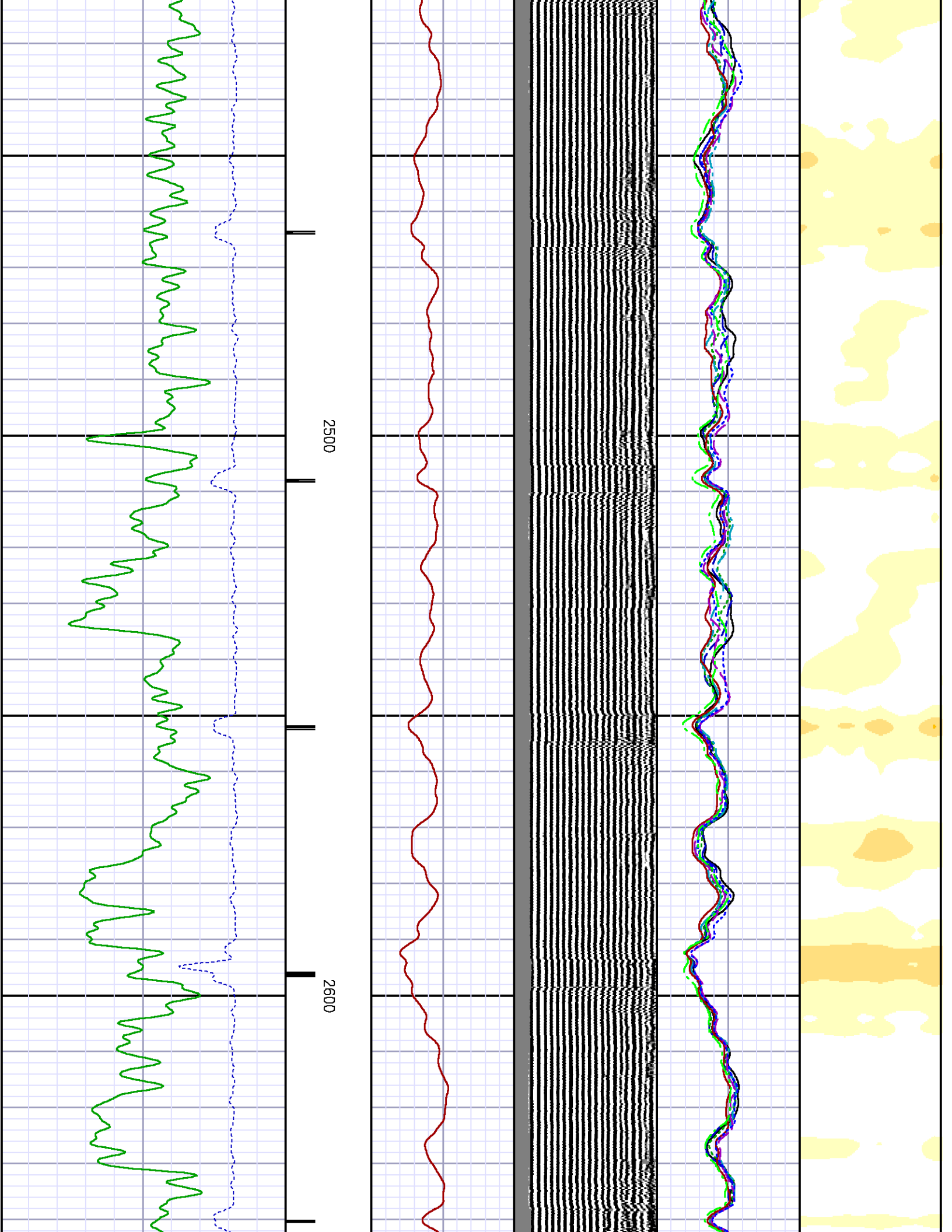


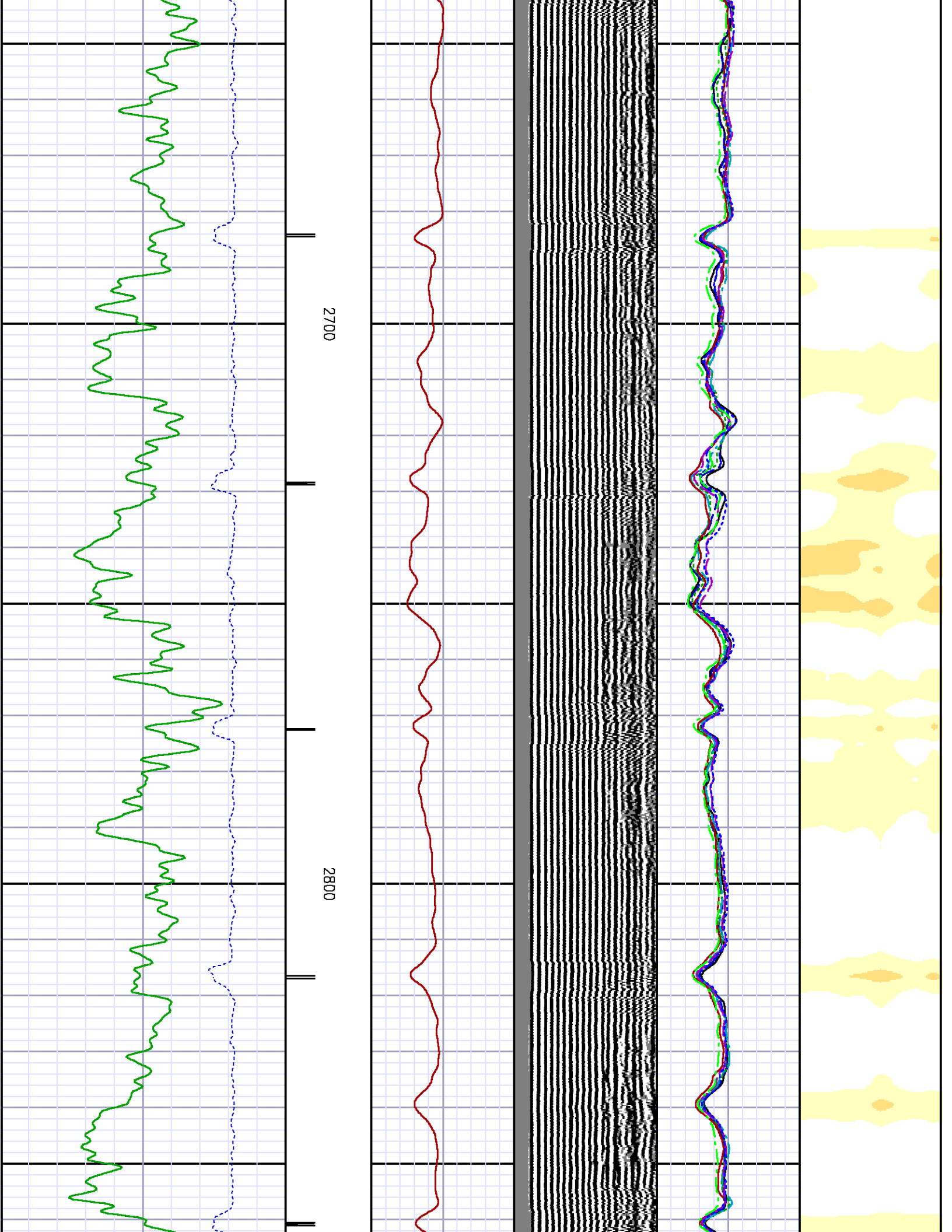


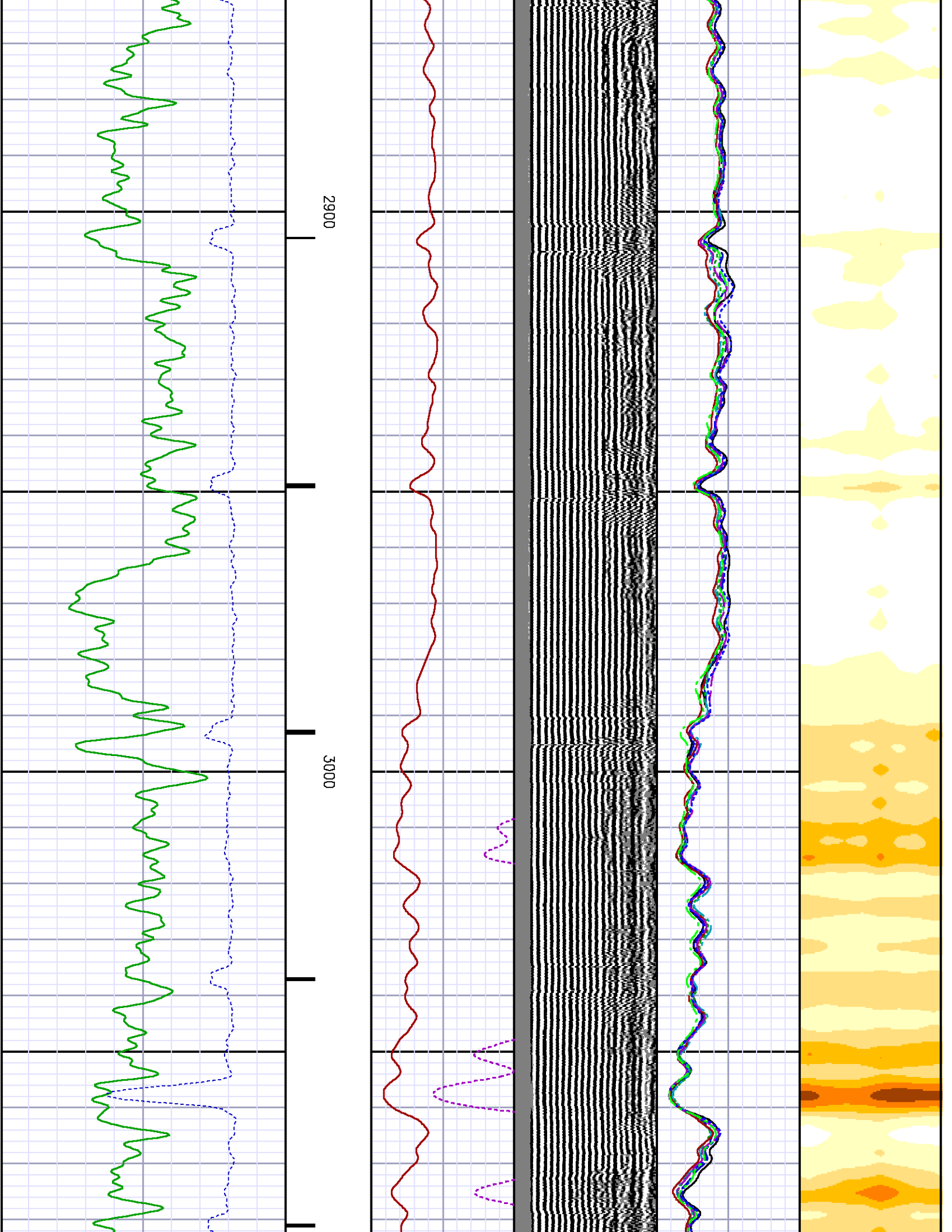


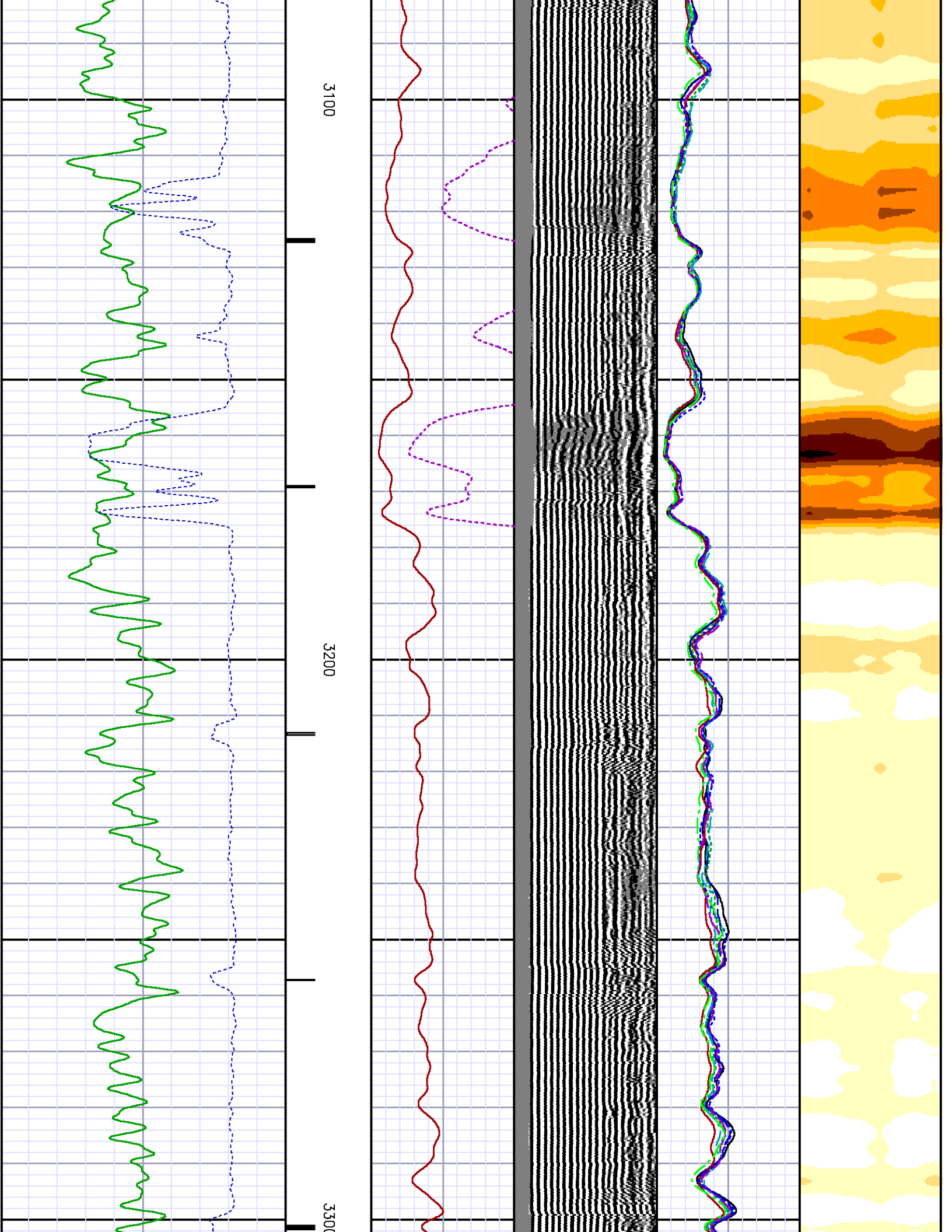


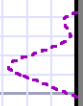
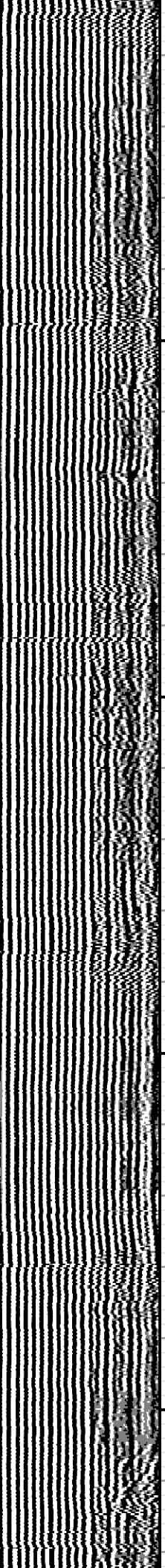
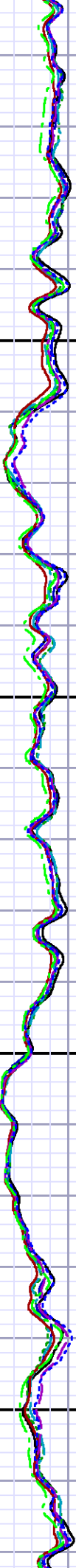
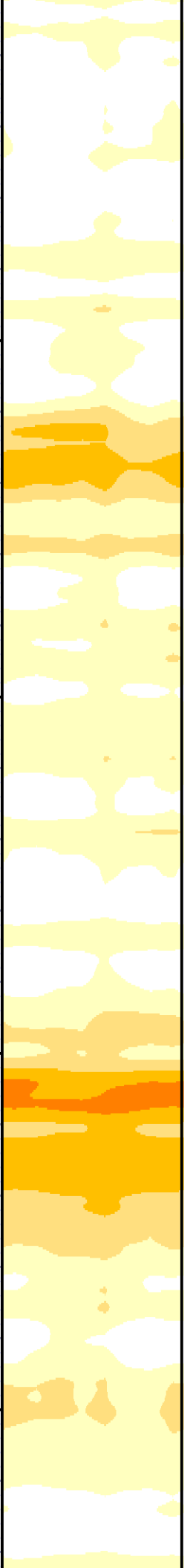






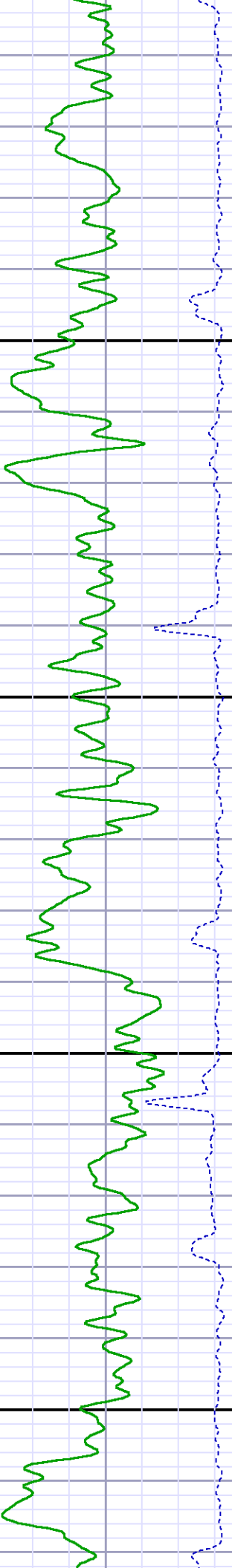


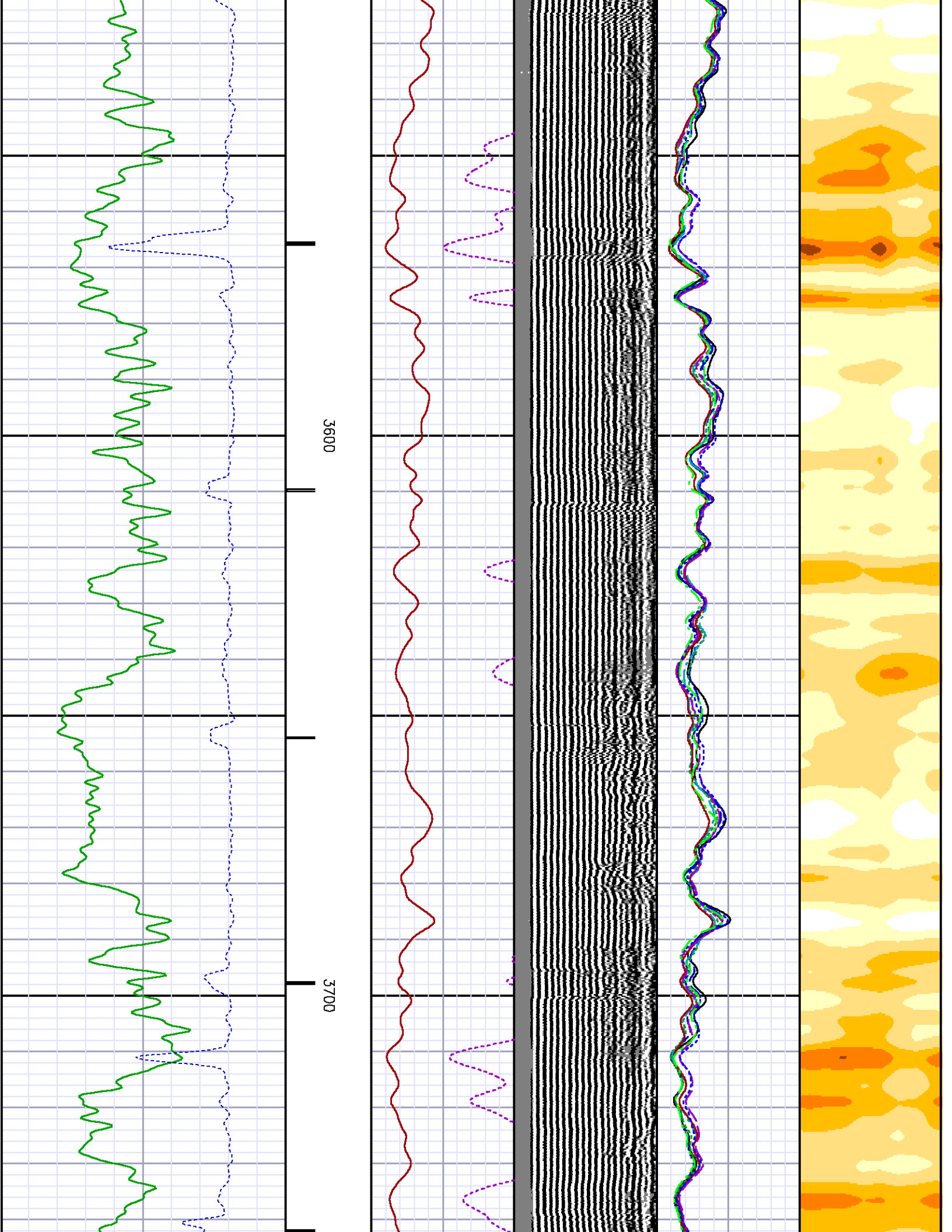


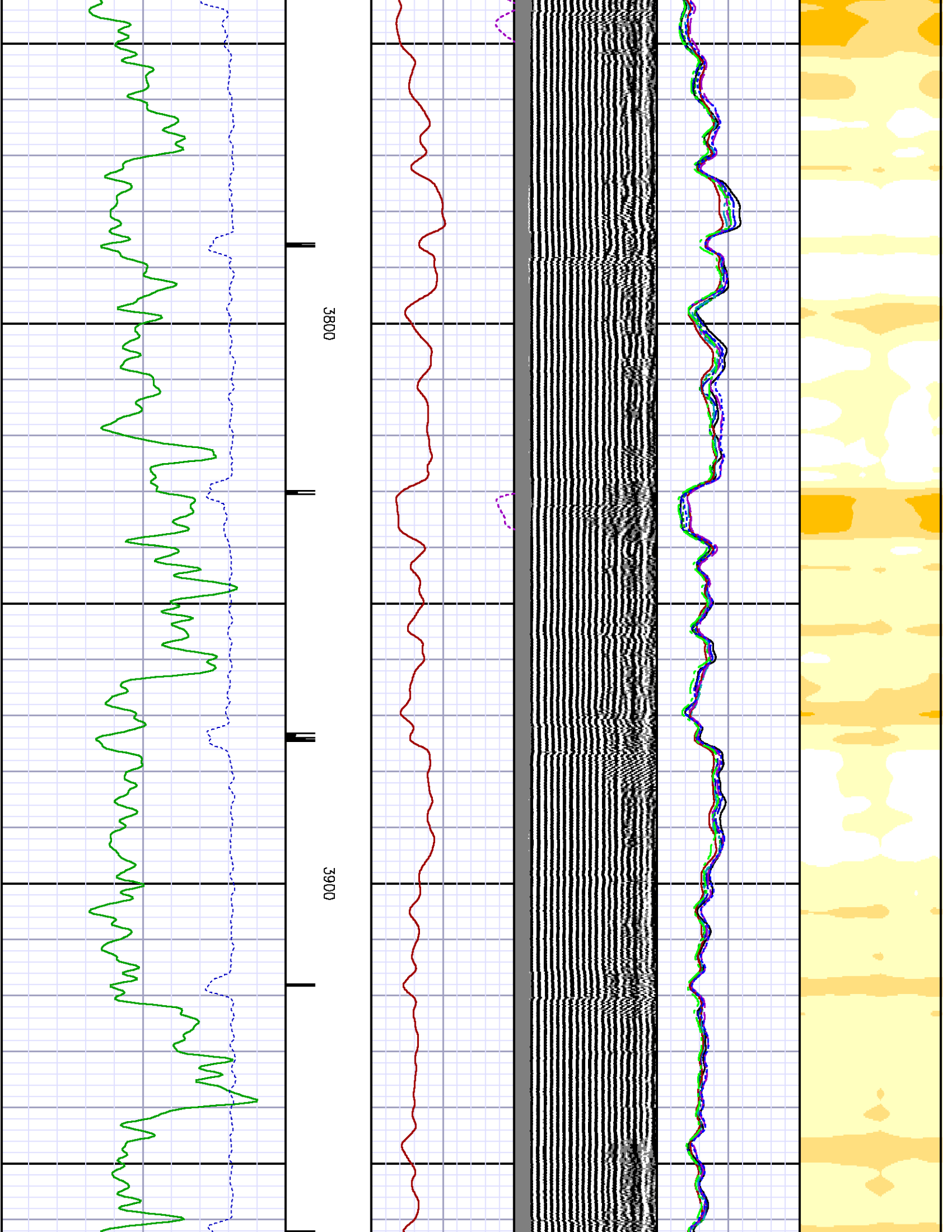


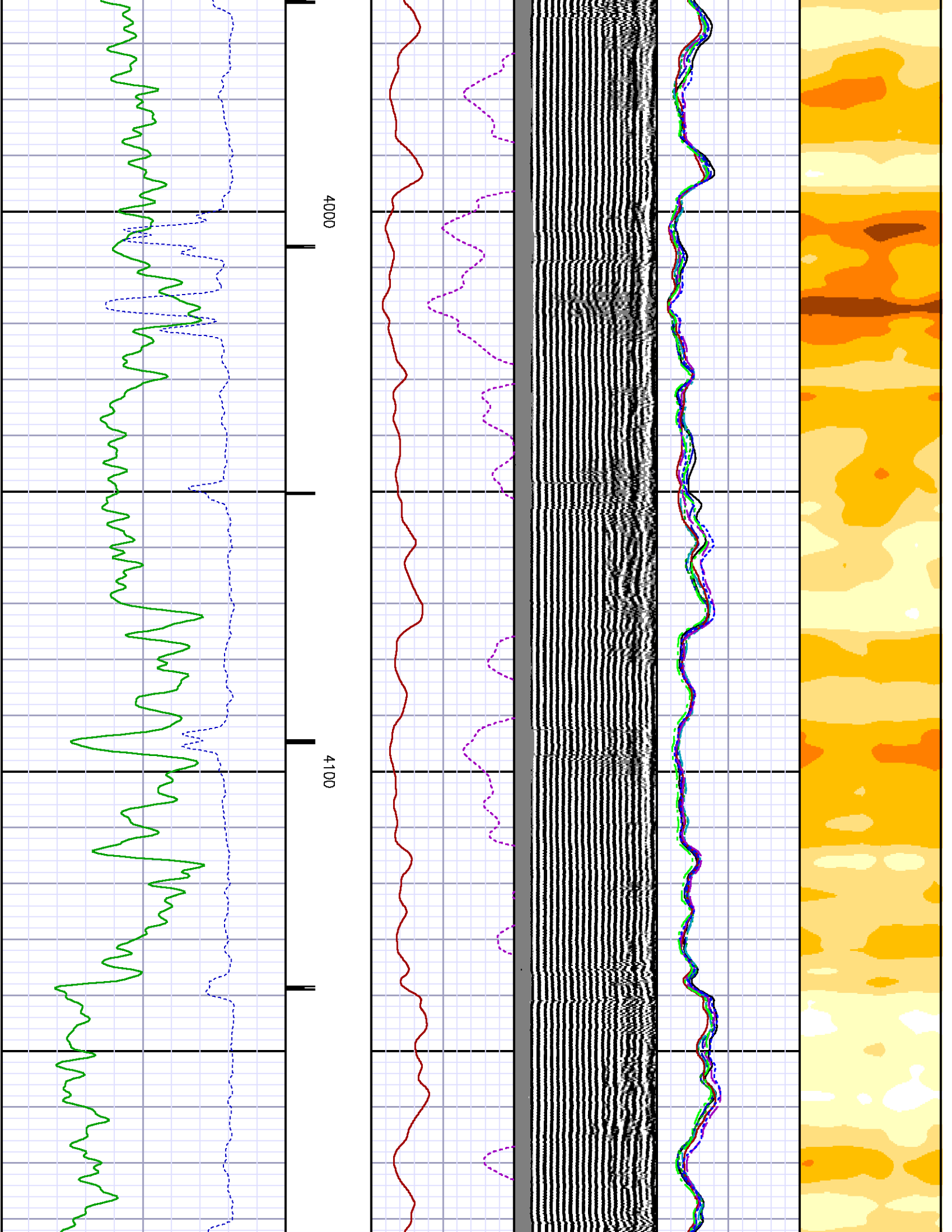
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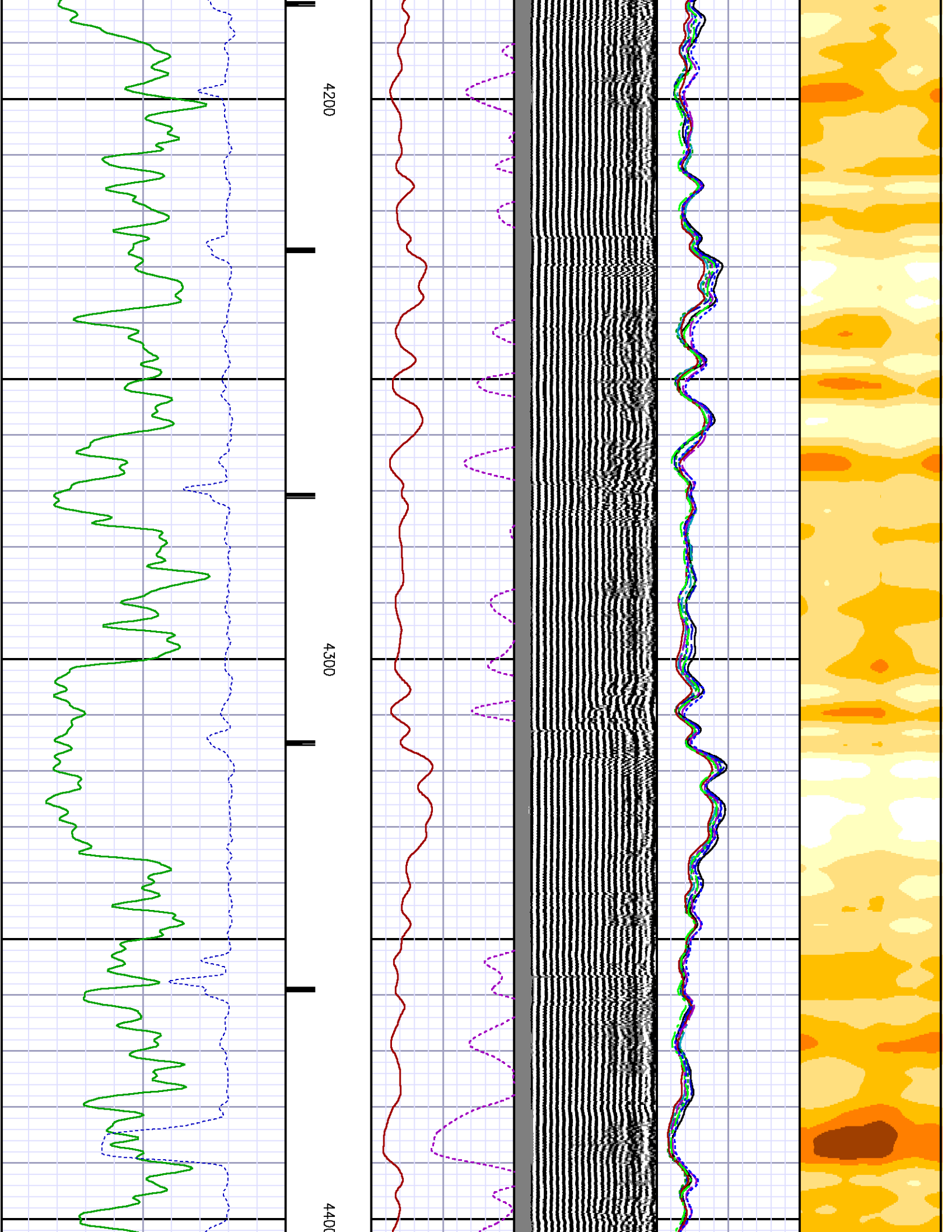
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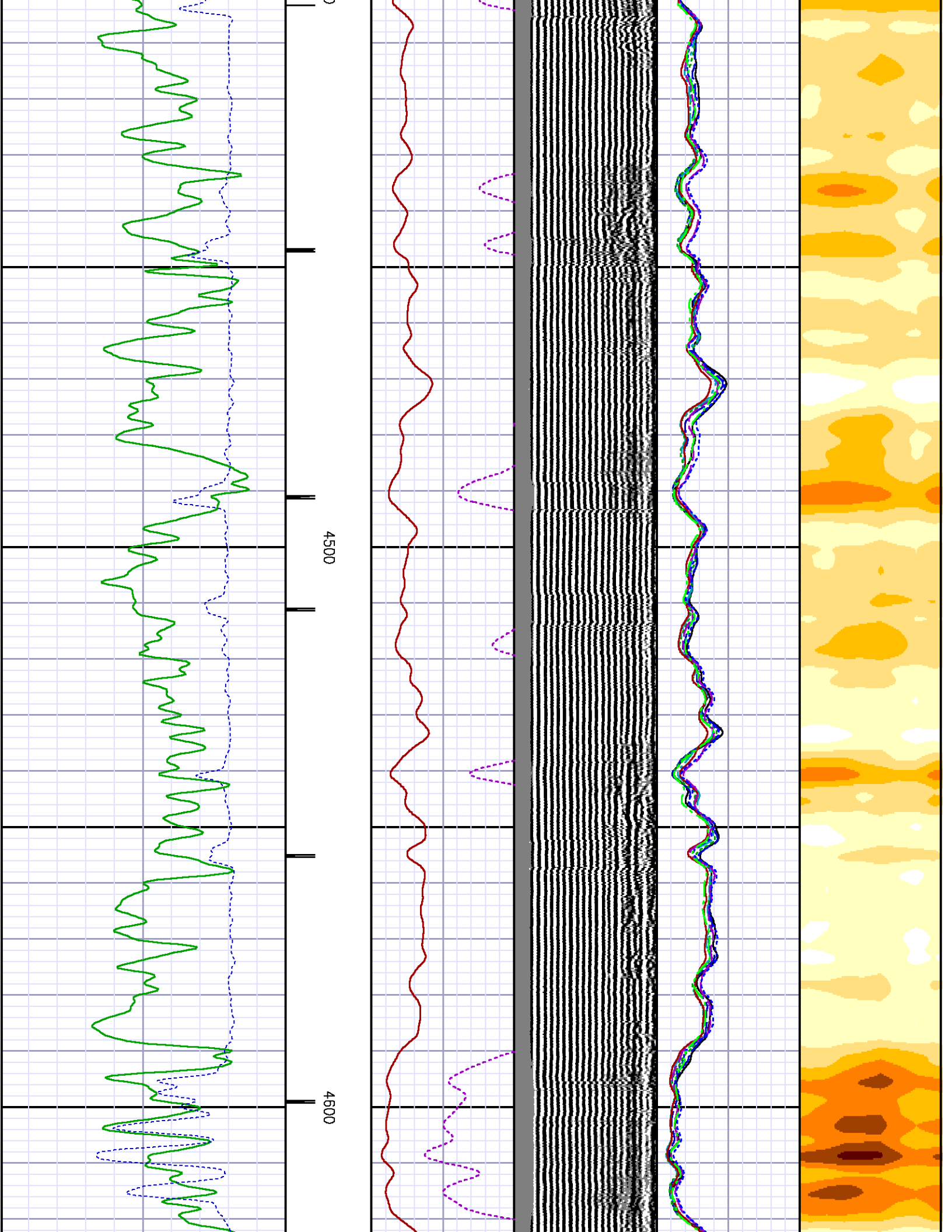


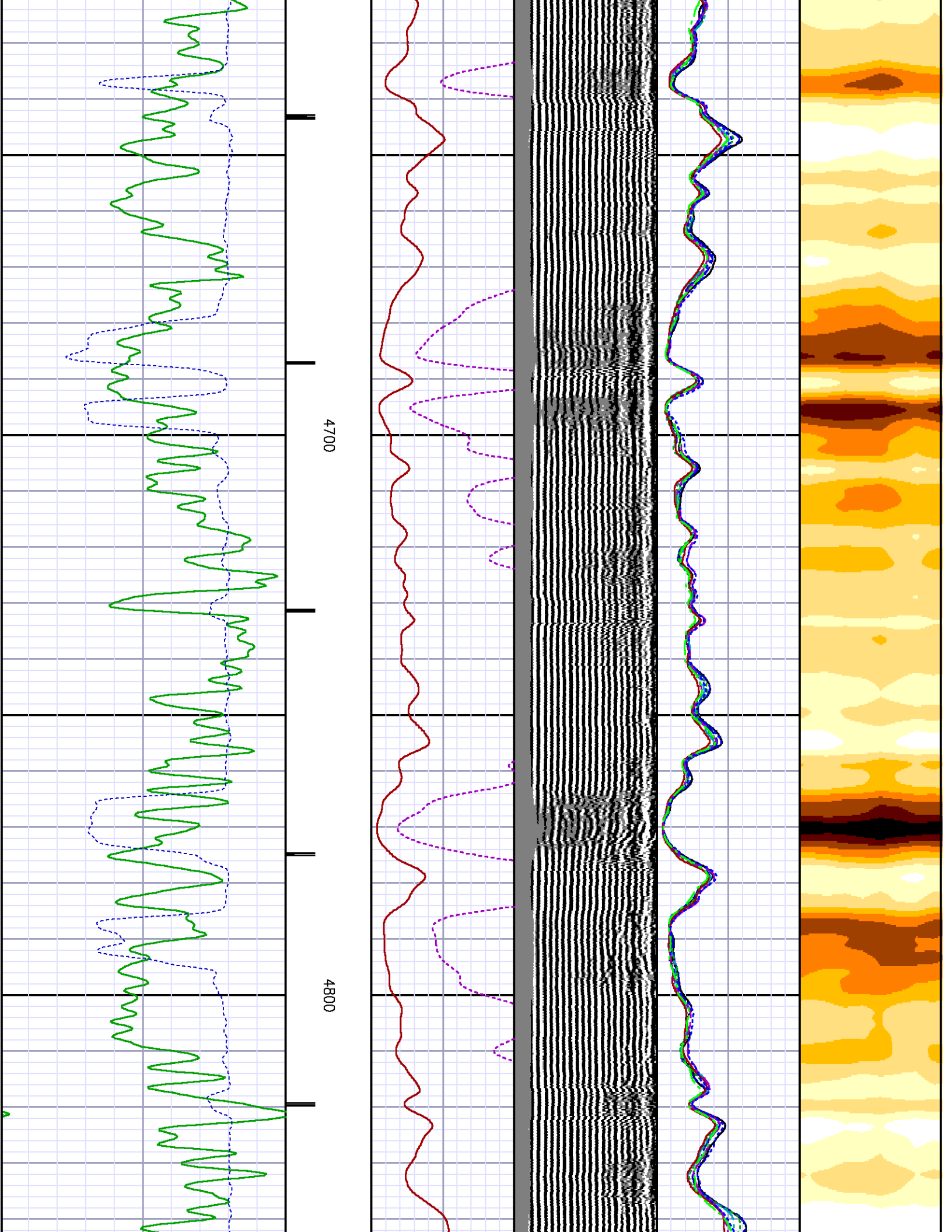


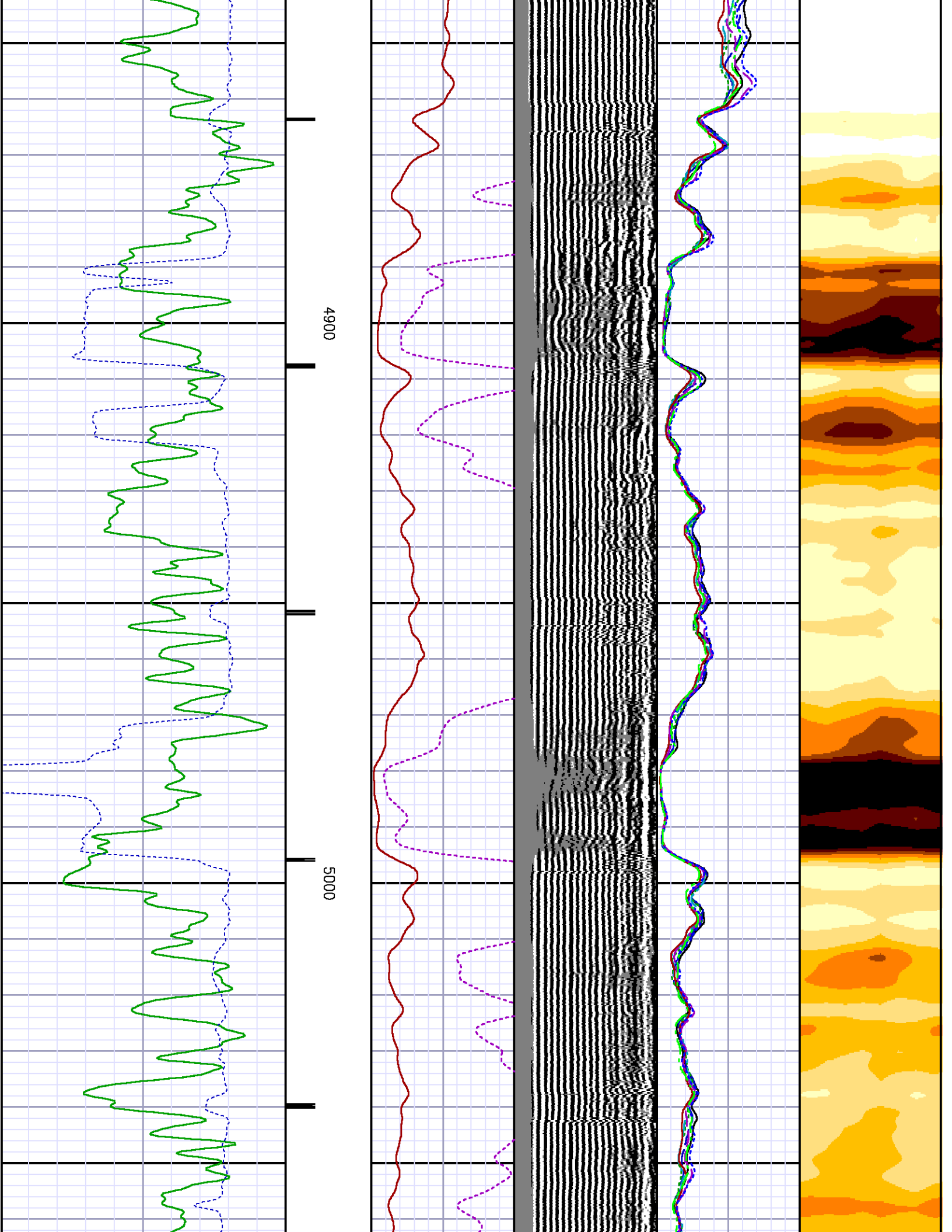


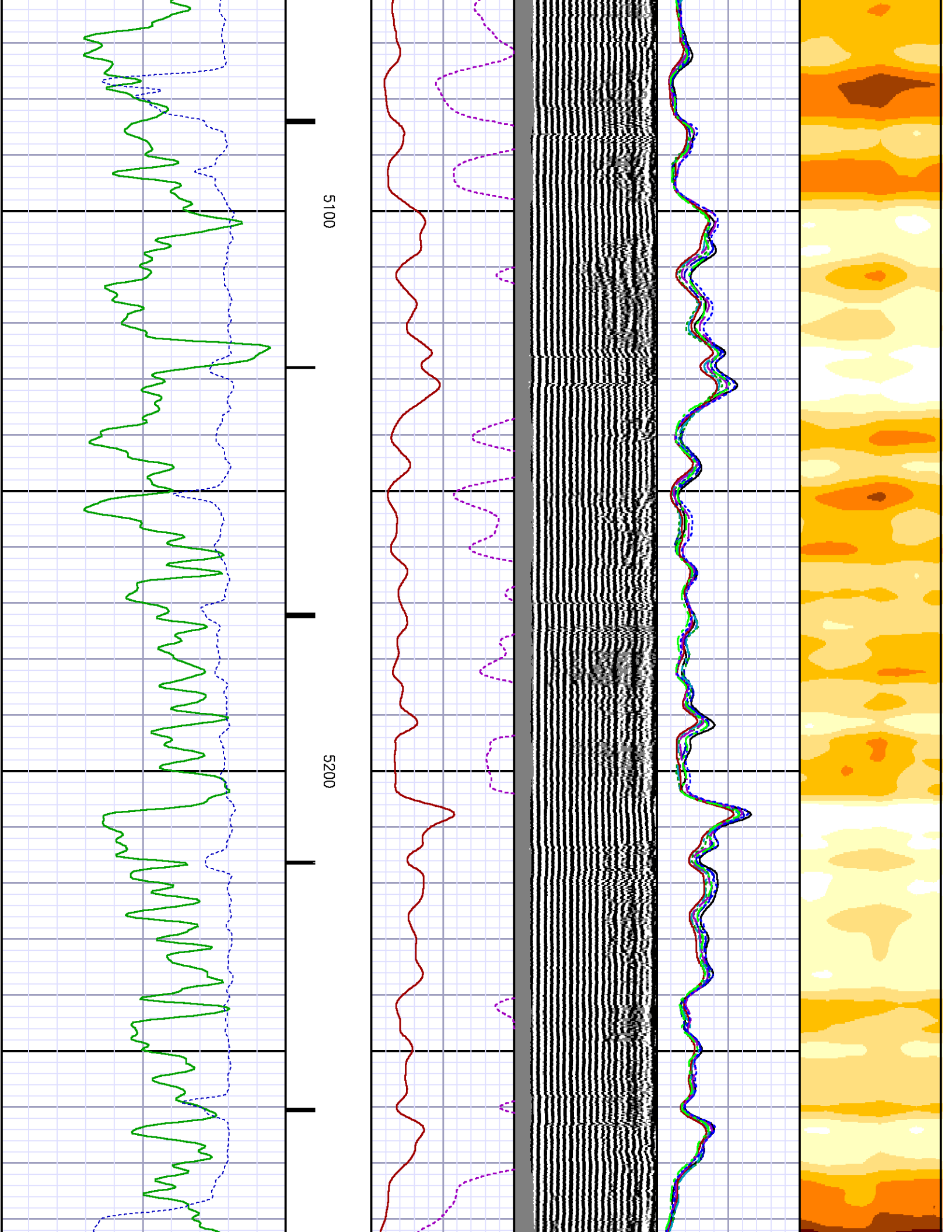


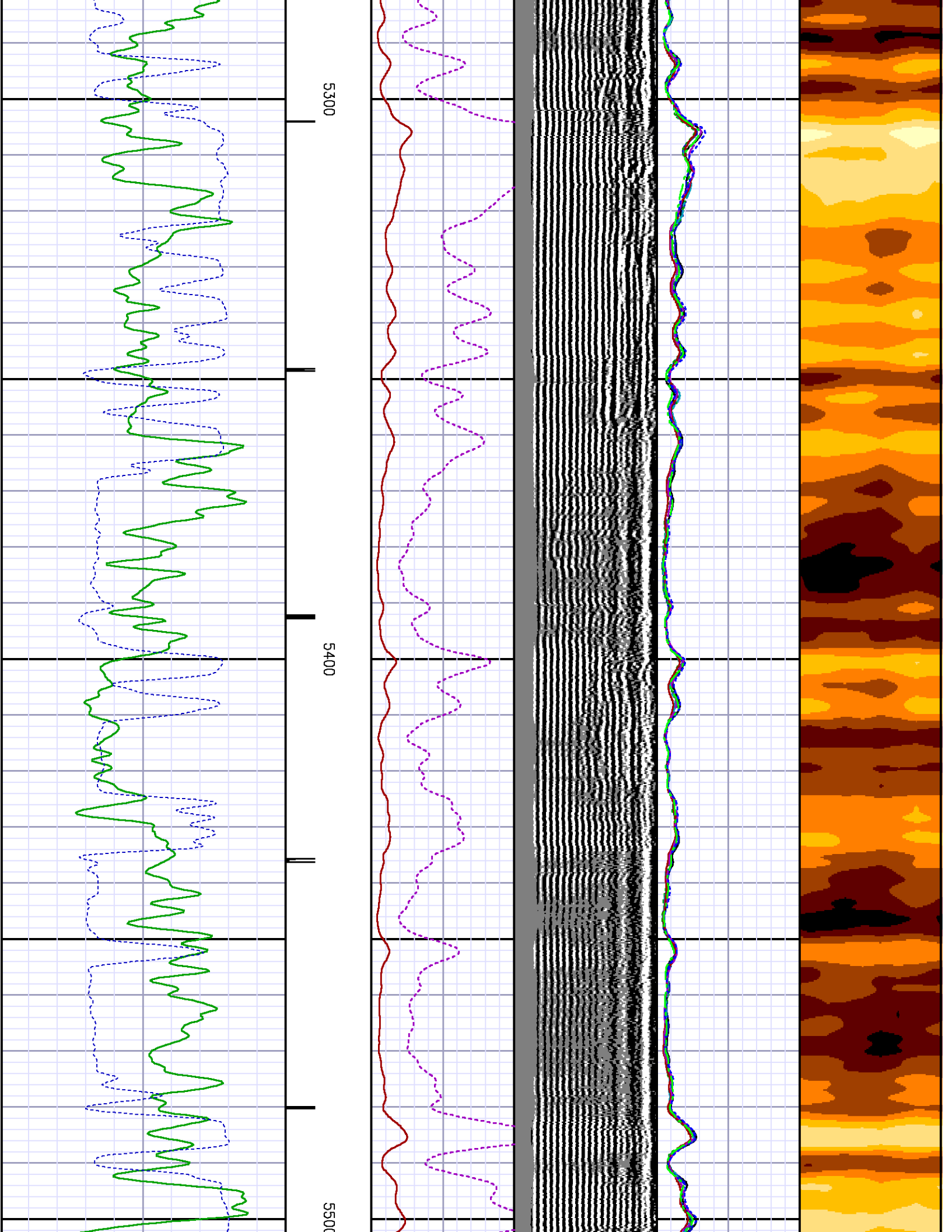


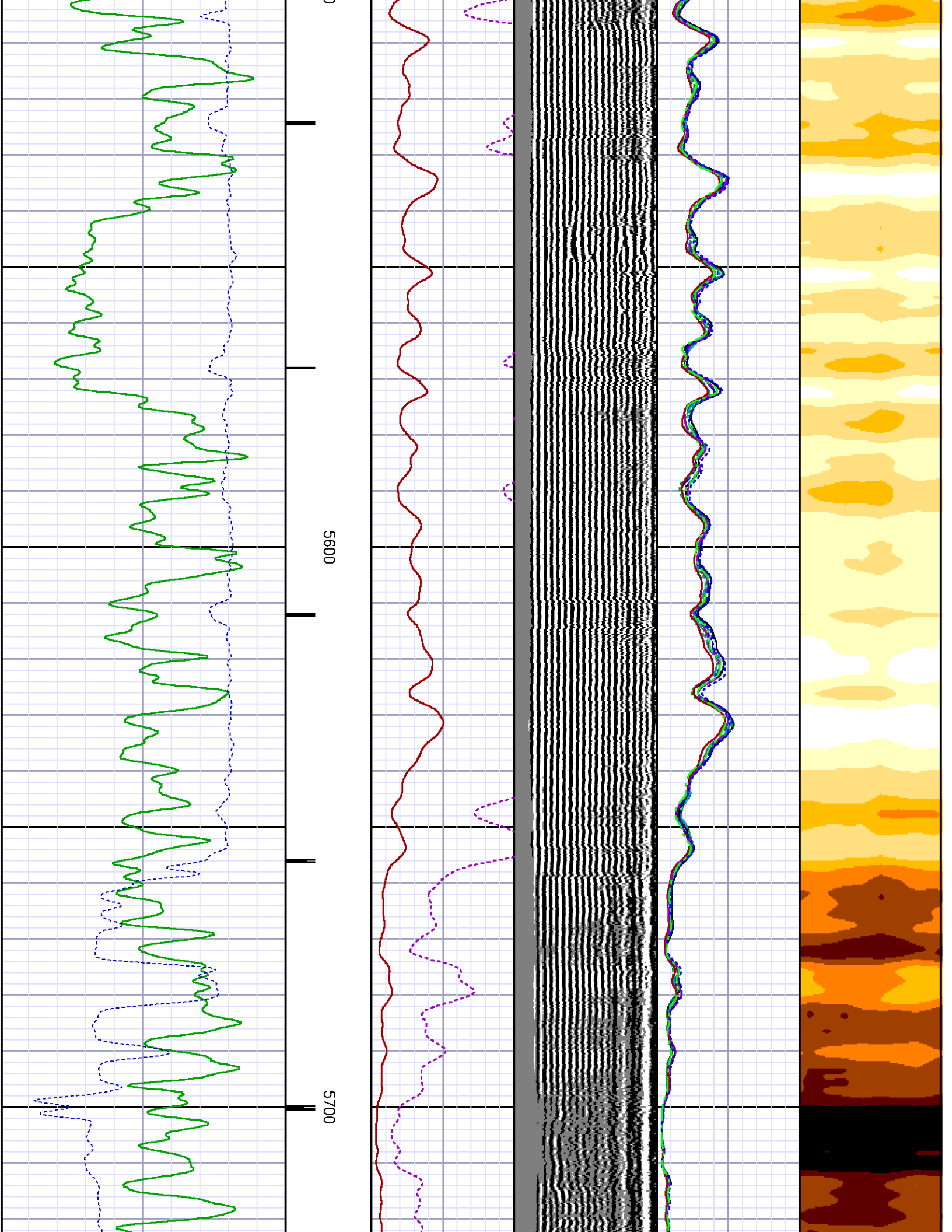


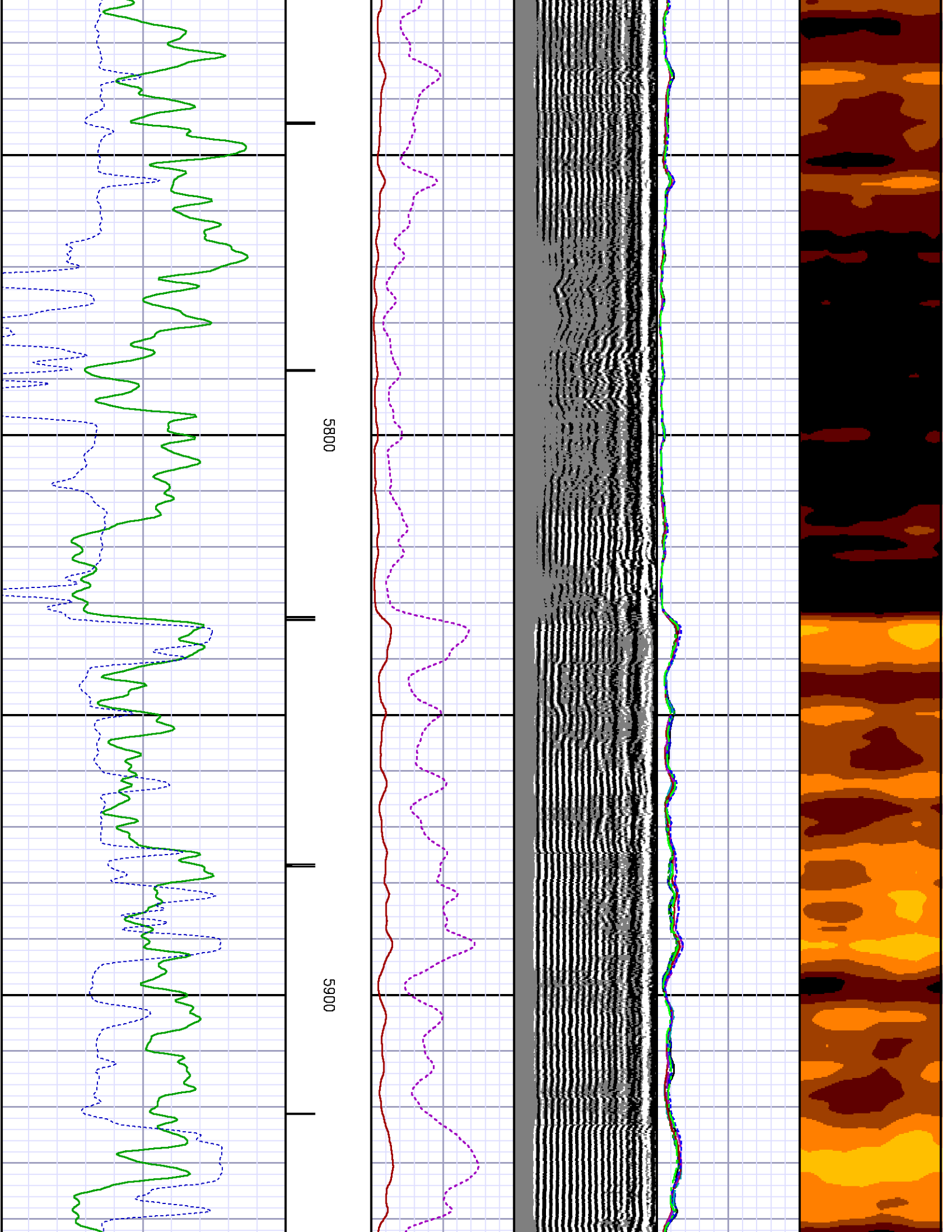


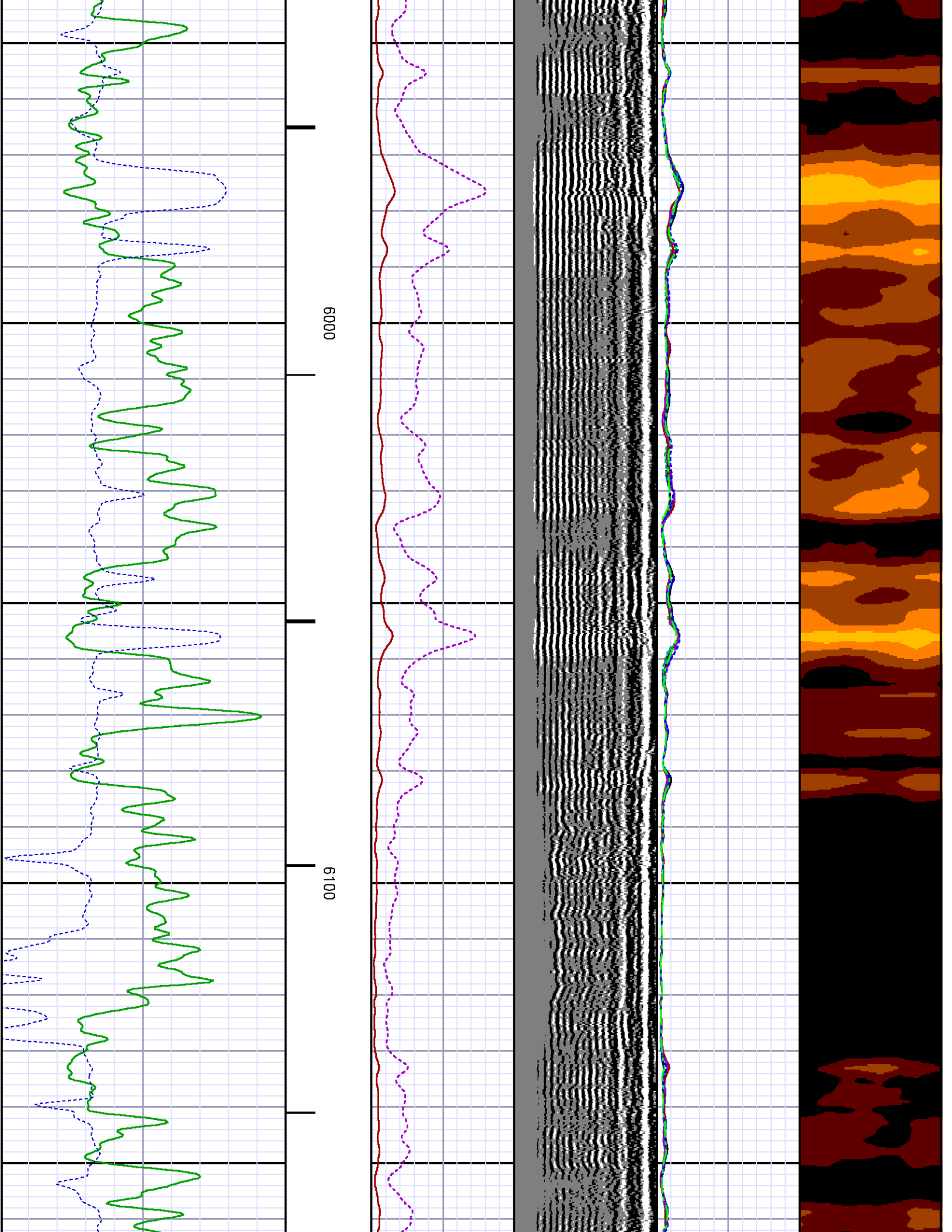


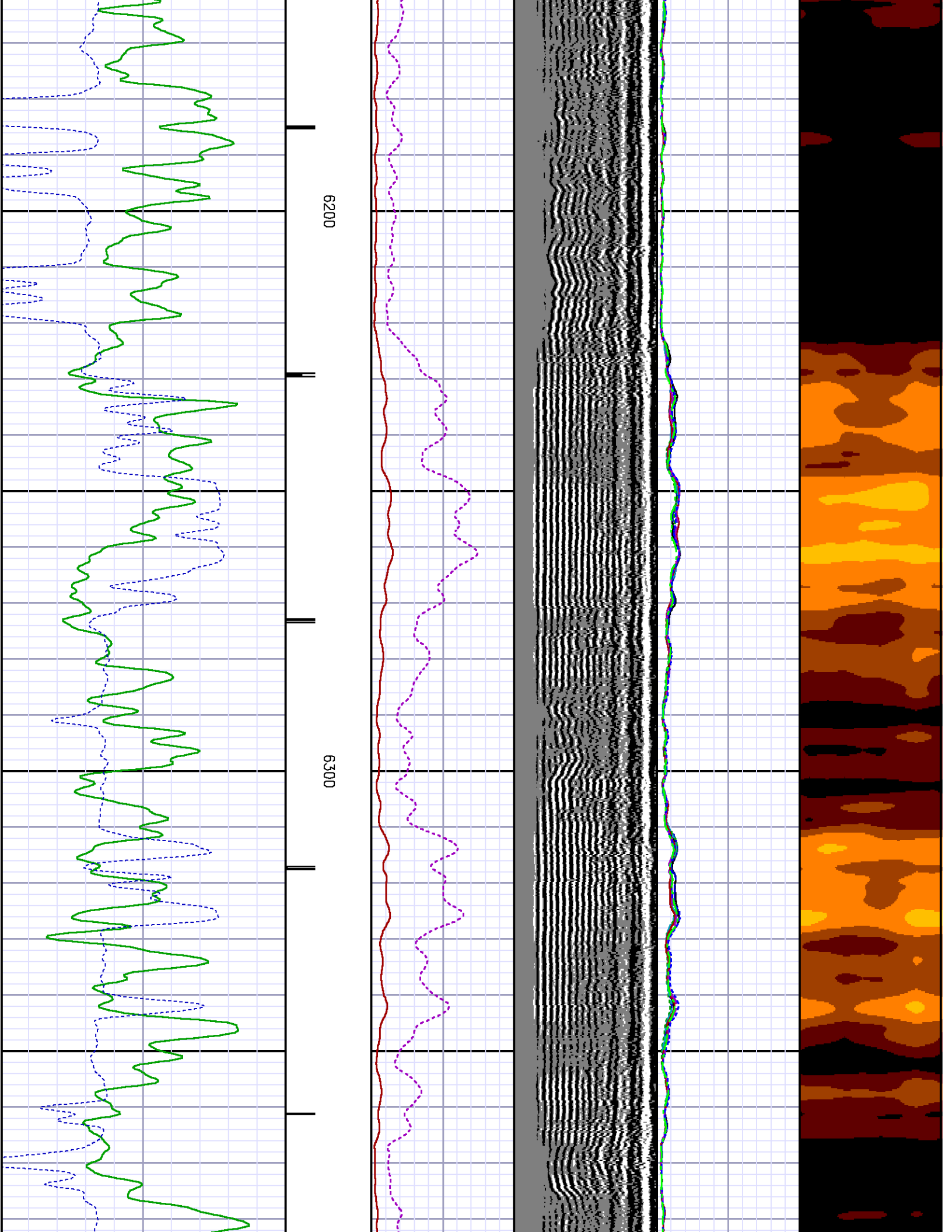


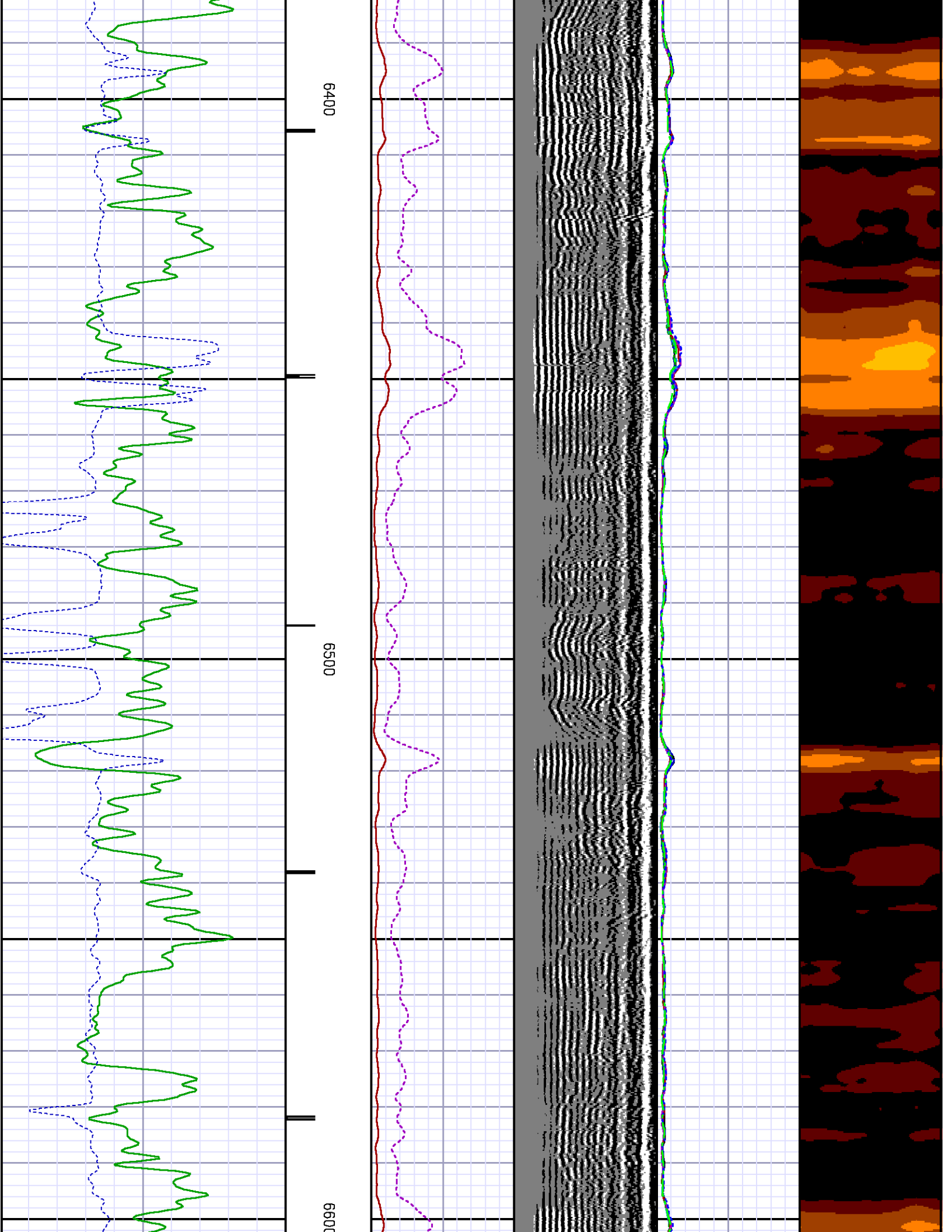


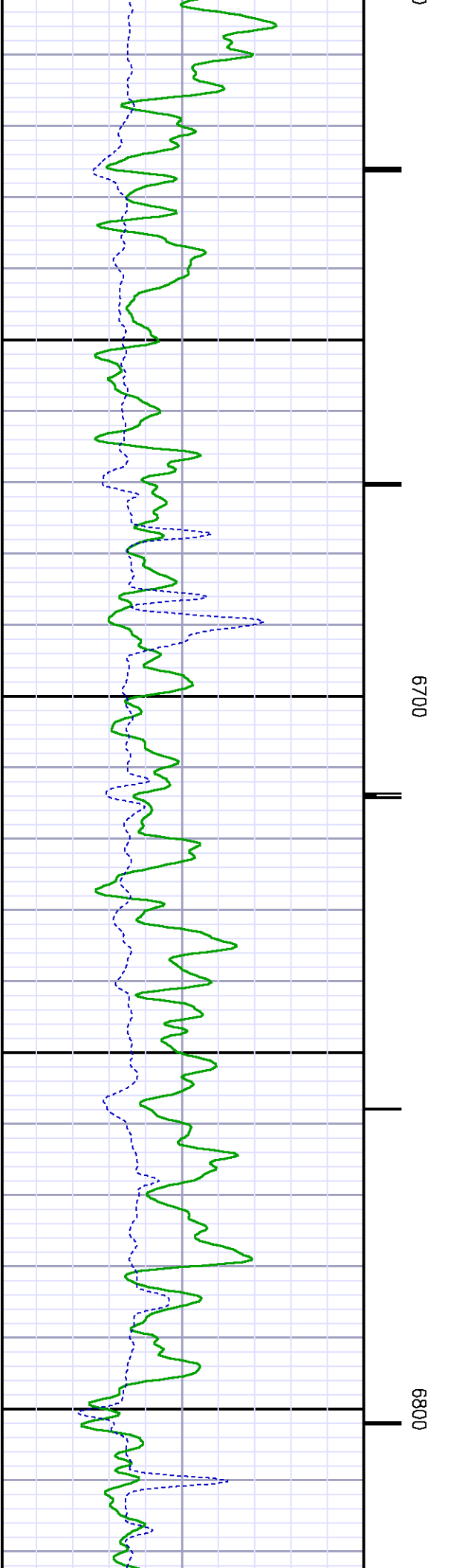
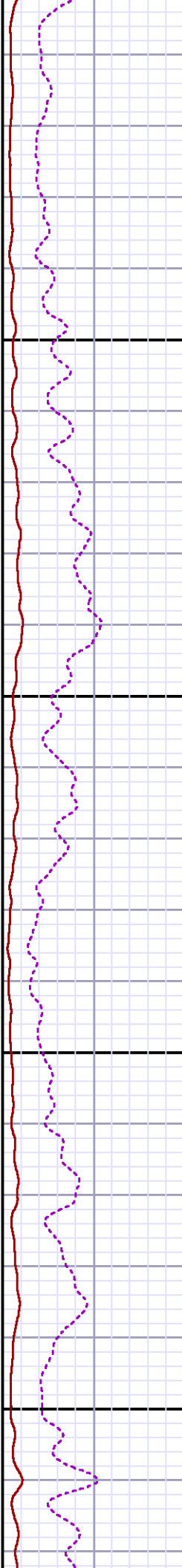
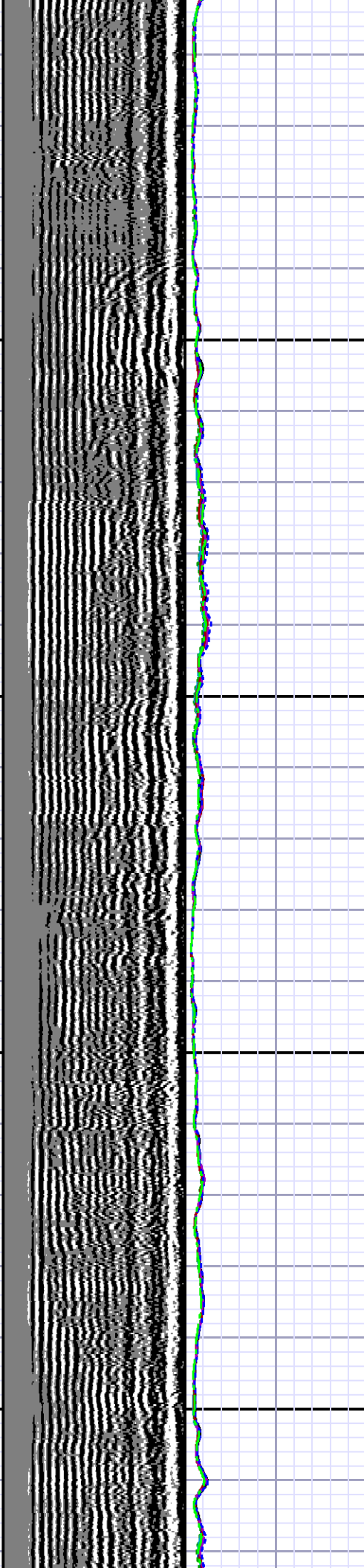
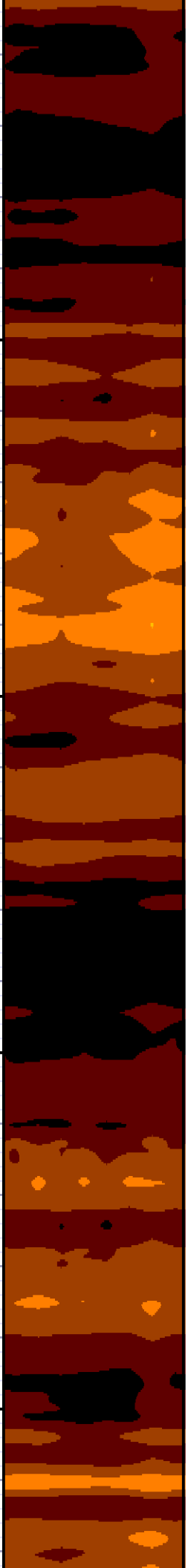


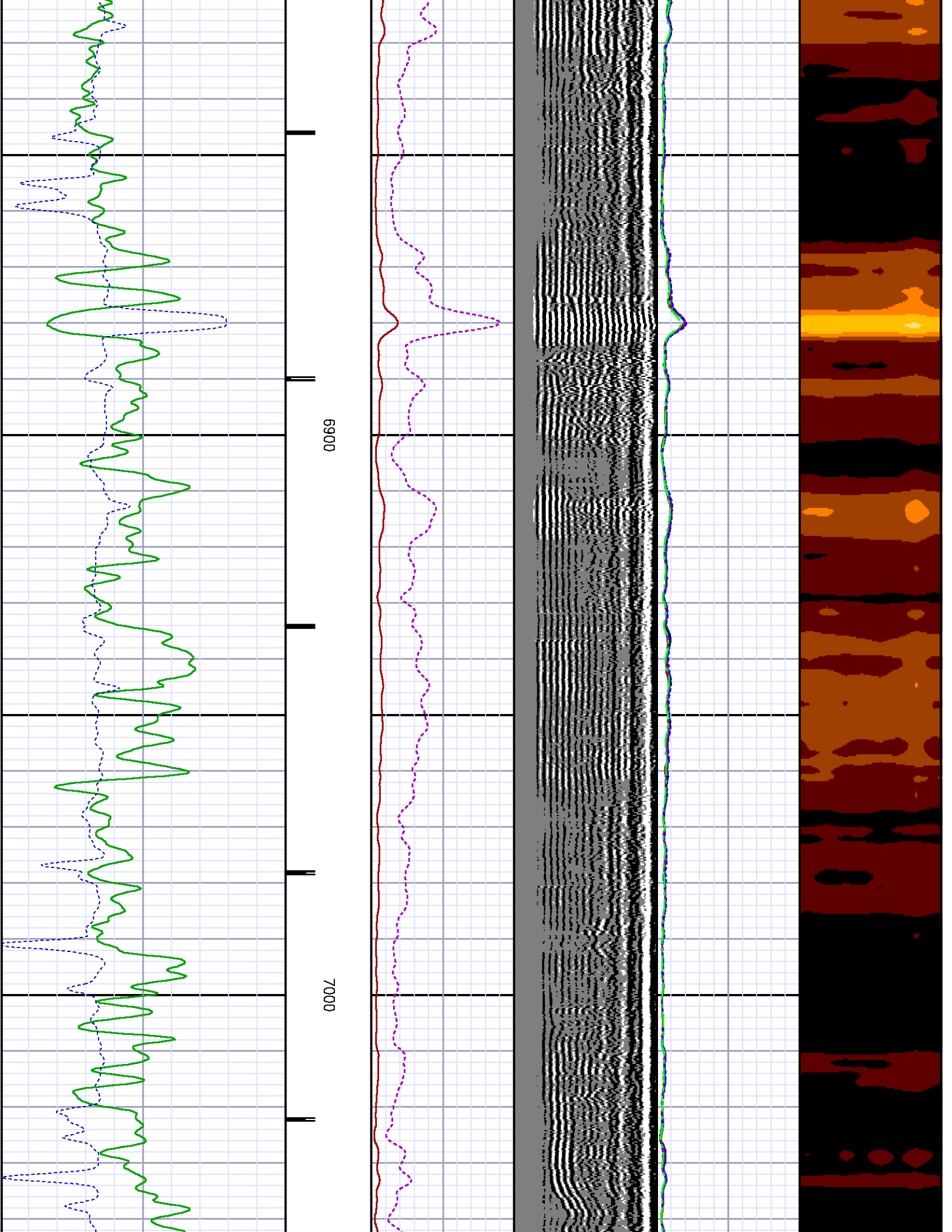


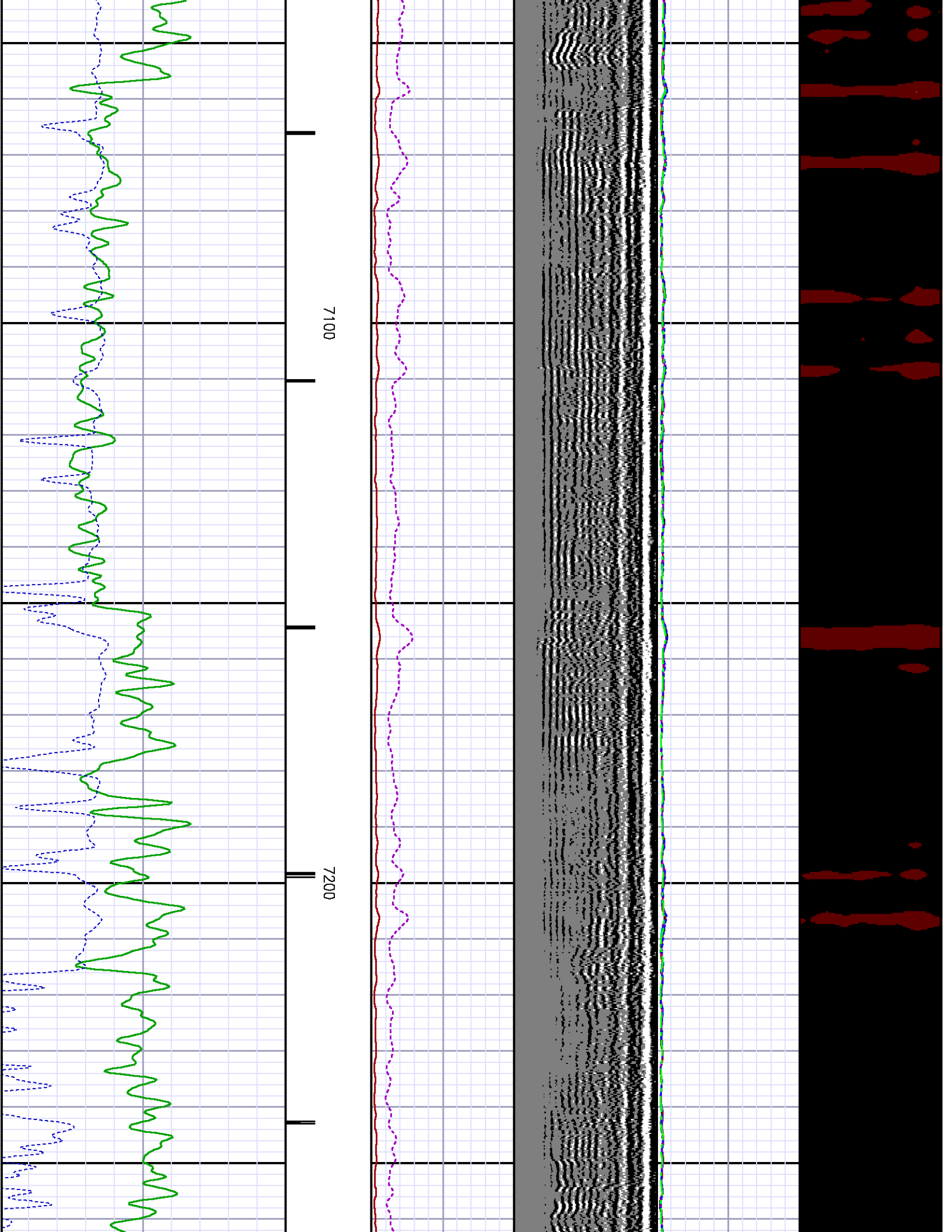


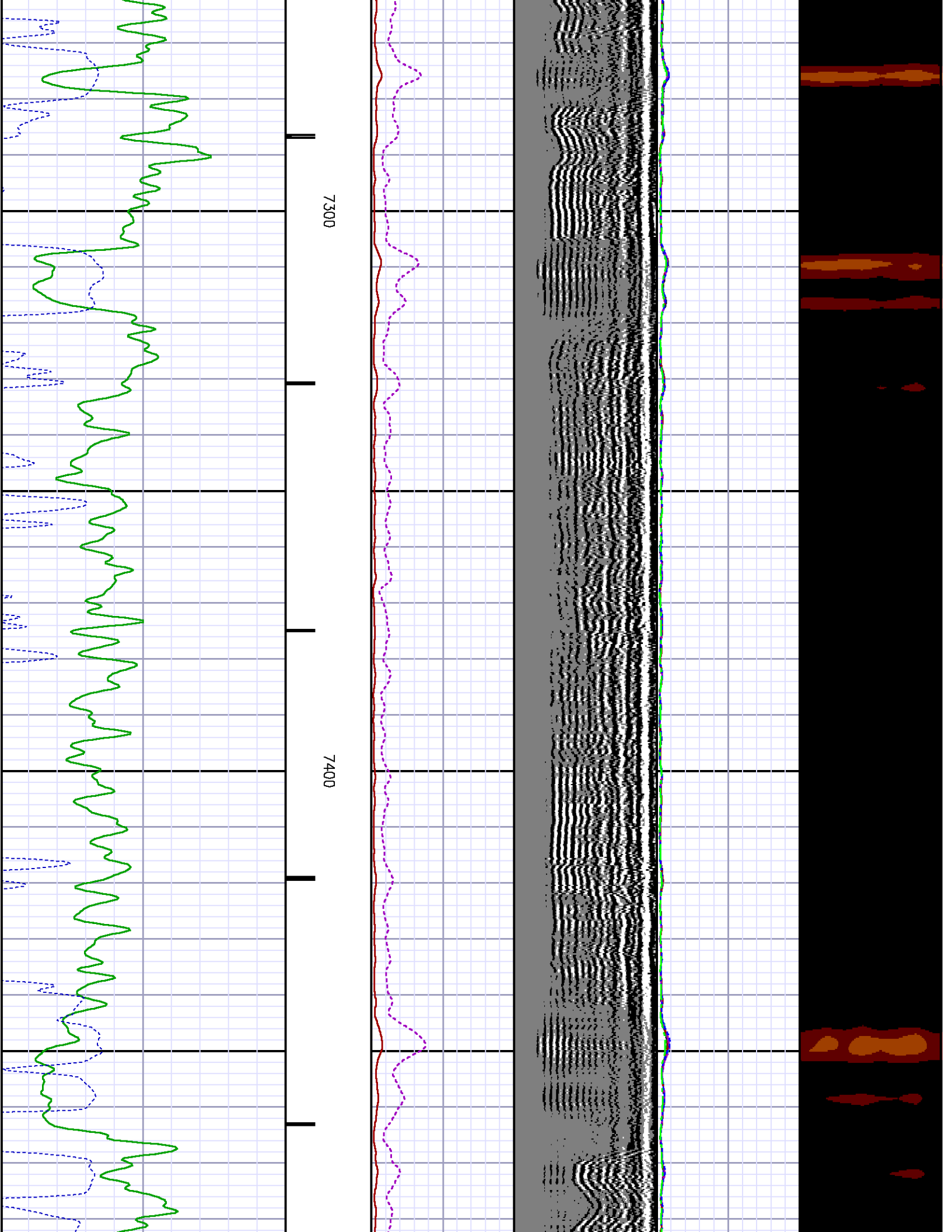


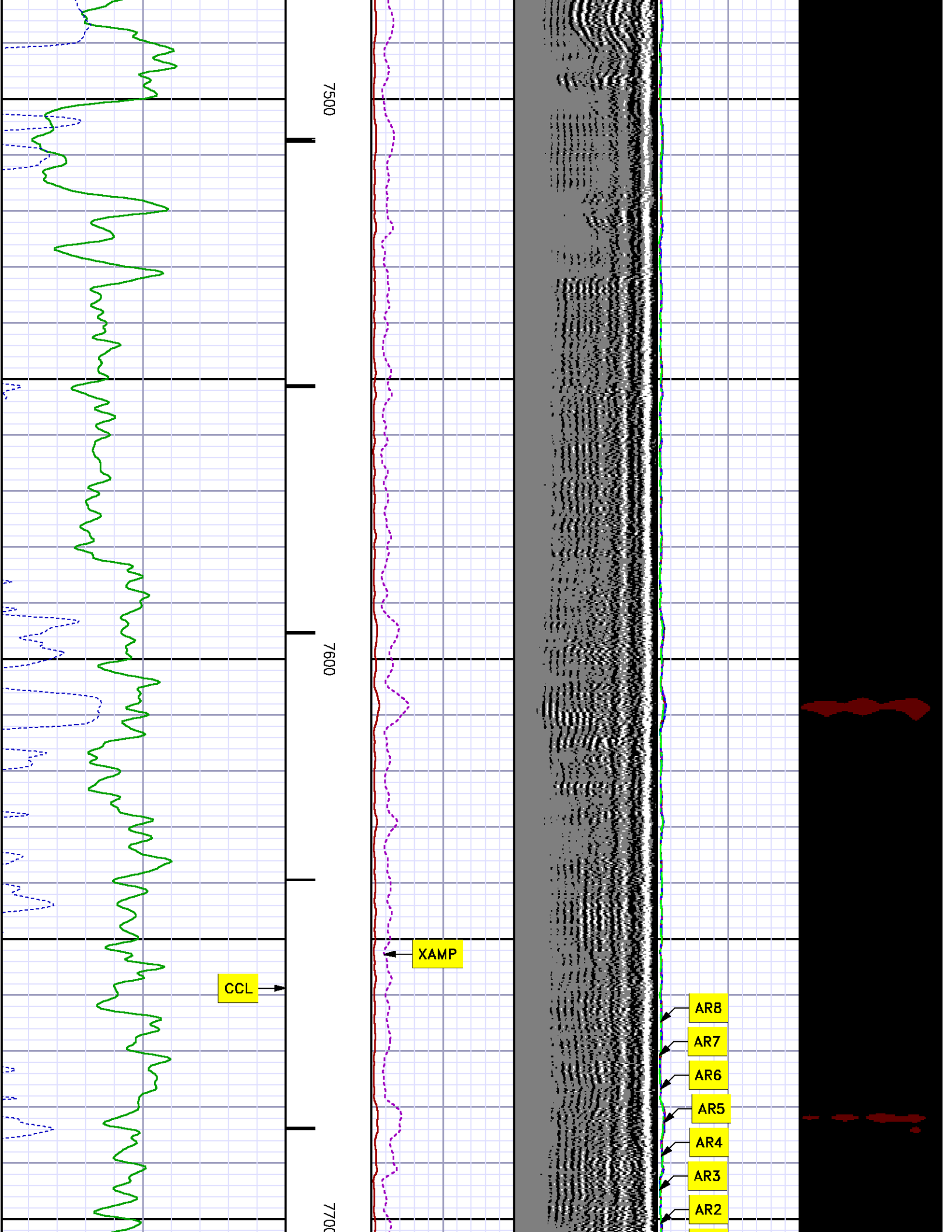


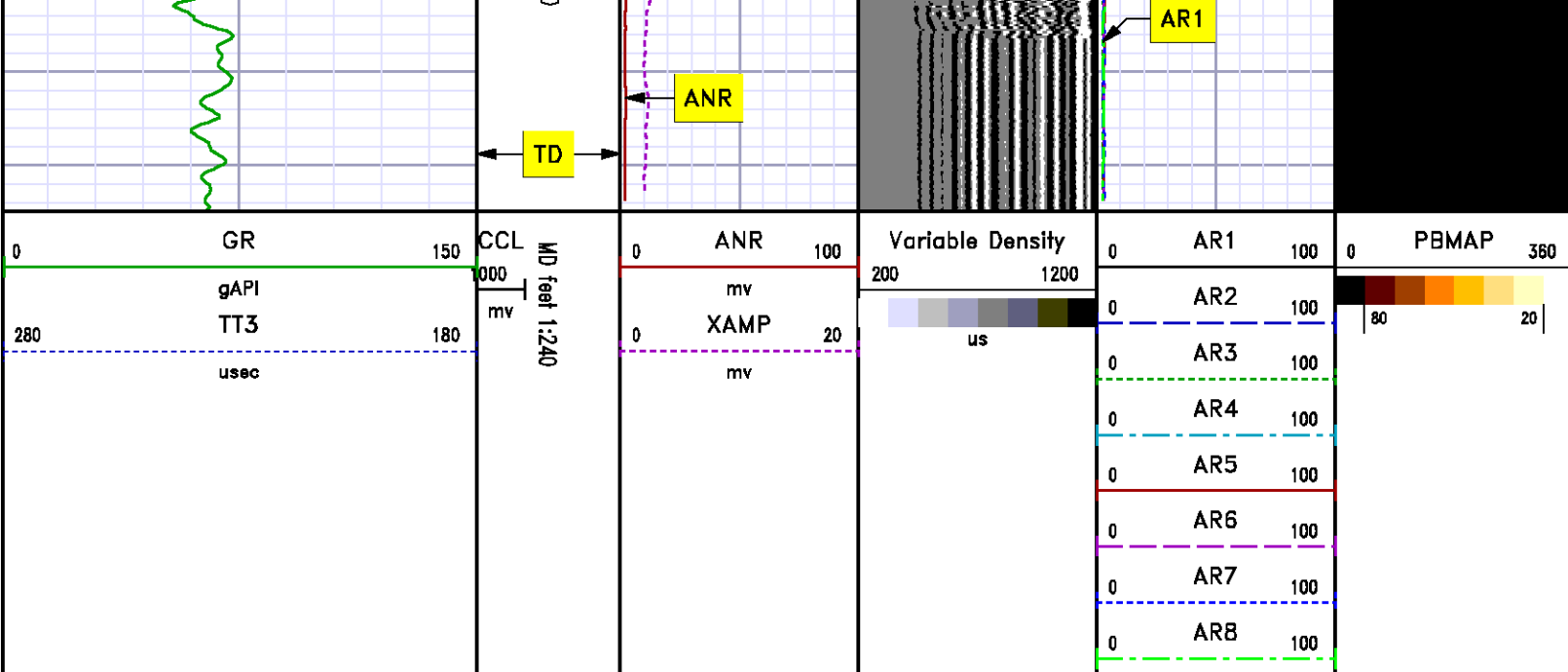












REPEAT SECTION
0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.000	u sec	7407.670	7745.920
RAL	Amp Gate Start Near	195.000	u sec	7407.670	7745.920
RAL	Amp Gate Start Radial	195.000	u sec	7407.670	7745.920
RAL	Amp Gate Width Far	25.000	u sec	7407.670	7745.920
RAL	Amp Gate Width Near	25.000	u sec	7407.670	7745.920
RAL	Amp Gate Width Radial	25.000	u sec	7407.670	7745.920
RAL	casing od	4.500	inches	7407.670	7745.920
RAL	casing wt	11.600	lbm/ft	7407.670	7745.920
RAL	FB Start Far	291.900	u sec	7407.670	7745.920
RAL	FB Start Near	180.000	u sec	7407.670	7745.920
RAL	FB Start Radial	180.000	u sec	7407.670	7745.920
RAL	FB Thresh Far	15.000	mv	7407.670	7745.920
RAL	FB Thresh Near	10.000	mv	7407.670	7745.920
RAL	FB Thresh Radial	10.000	mv	7407.670	7745.920
RAL	Fluid Travel Time	200.000	u sec/ft	7407.670	7745.763

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

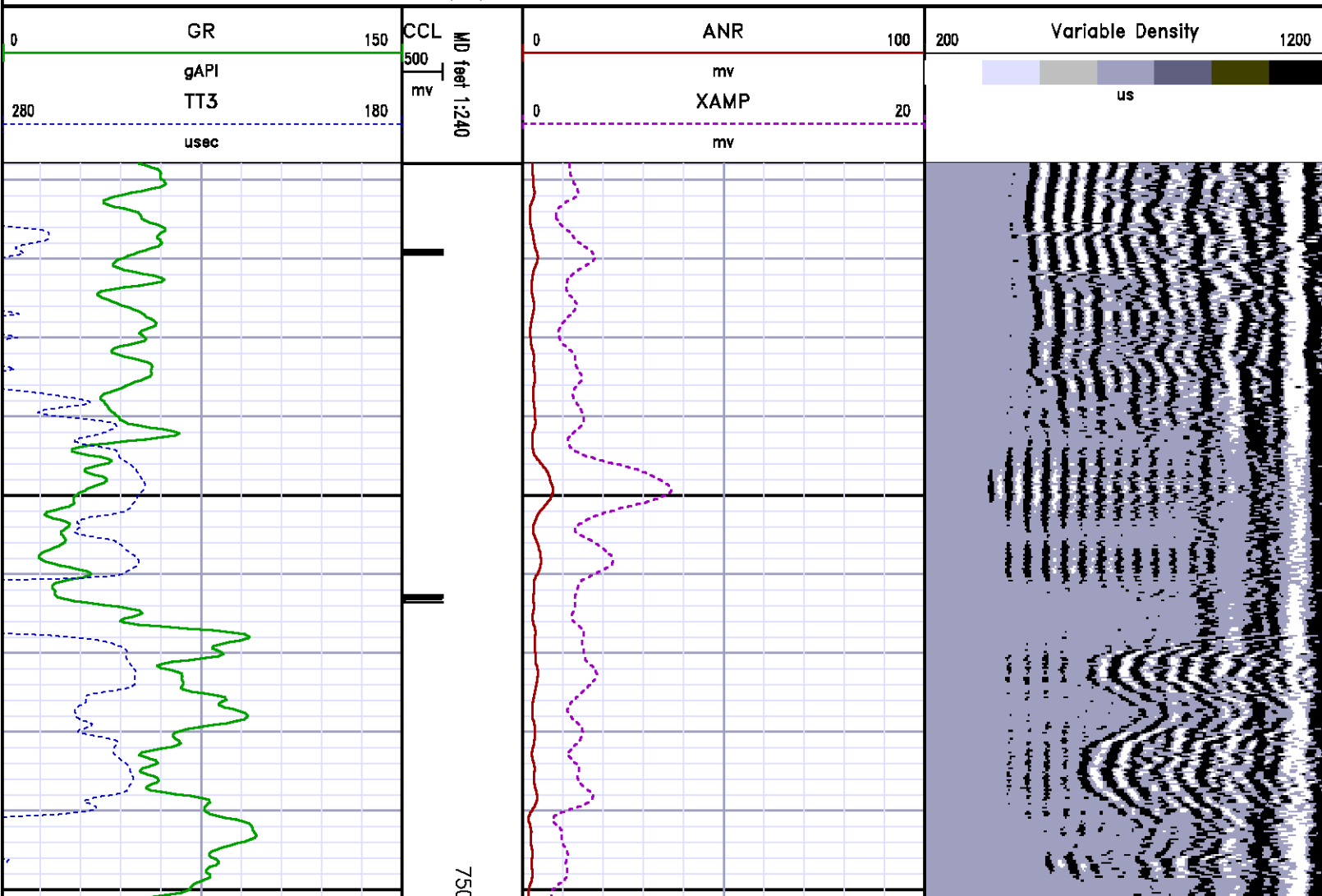
Well : JOLLEY KP 344-8

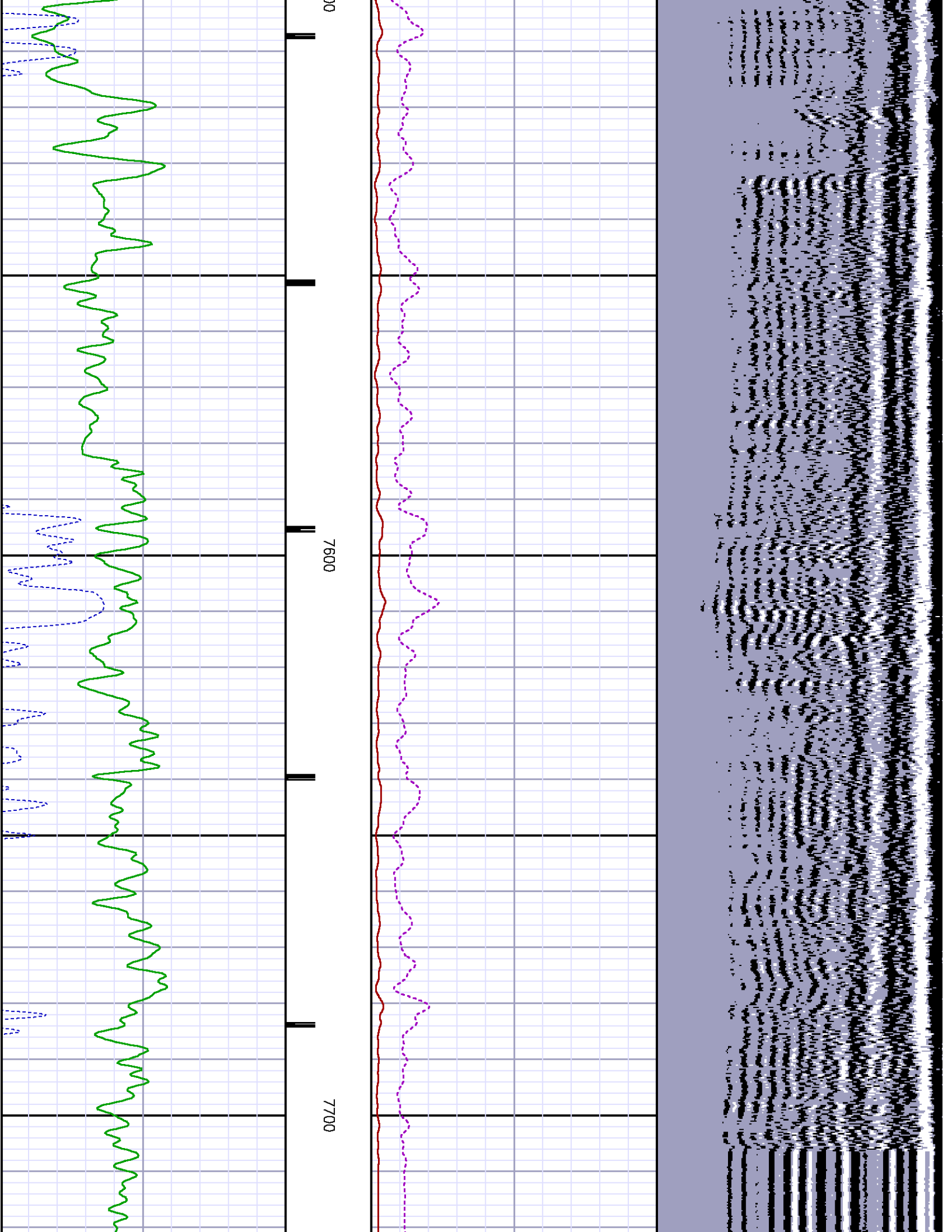
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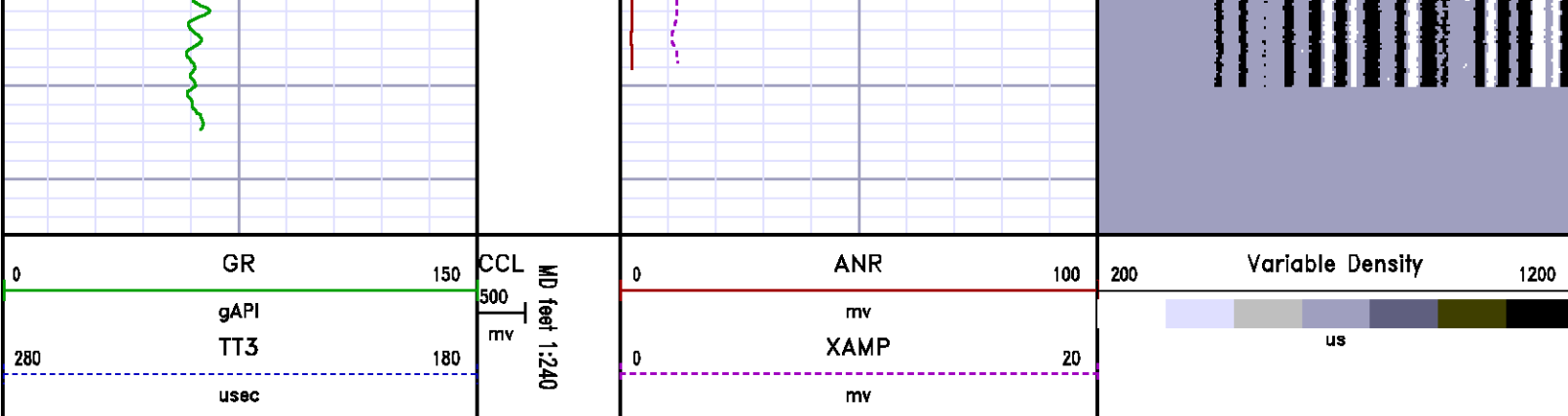
Mode : PlotMgr 5.4.504

Interval : 7407.92 - 7745.92 feet UP

Created : 10/14/2012 9:08:24 AM







CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\539KP_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 13 11:21:00 2012 TOOL SERIES: 1426XA ASSET: 539 SEQ: KP

Tool Delay [usec] -61.00 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	0.349	100.00	0.22
3 Ft. Receiver	217	216	30	145	25	0.041	100.00	0.22
5 Ft. Receiver	325	322	30	231	25	0.702	150.00	0.25
Radial #1	218	216	30	142	25	1.949	100.00	0.22
Radial #2	217	216	30	142	25	0.767	100.00	0.22
Radial #3	217	216	30	142	25	0.492	100.00	0.22
Radial #4	217	216	30	142	25	-0.043	100.00	0.22
Radial #5	218	216	30	142	25	-0.097	100.00	0.22
Radial #6	217	216	30	142	25	-0.145	100.00	0.22
Radial #7	216	216	30	142	25	-0.230	100.00	0.22
Radial #8	217	216	30	142	25	-0.357	100.00	0.22

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\539KP fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Oct 13 11:22:28 2012 TOOL SERIES: 1426XA ASSET: 539 SEQ: KP

Tool Delay [usec] -61.00 Casing OD in 4.50 Casing Wt lbm/ft 11.60 Casing ID in 4.00

RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
CAL Pulse	166	25	-0.276	0.000	1.00	100.000
3 Ft. Receiver	200	30	-3.867			
5 Ft. Receiver	317	30	-5.063			
Radial #1	200	30	-6.150			
Radial #2	200	30	-4.839			
Radial #3	200	30	-4.454			
Radial #4	200	30	-4.628			
Radial #5	200	30	-6.801			
Radial #6	200	30	-4.917			
Radial #7	200	30	-5.170			
Radial #8	200	30	-8.619			

GAMMA RAY

Calibration File: C:\case\calver\GR\5440C.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Oct 11 09:59:43 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: OC

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	83.64	354.67	0.683	57.10	242.10	185.00

Verification File: C:\case\calver\GR\5440C.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Thu Oct 11 10:00:59 2012 TOOL SERIES: 2459XA ASSET: 544 SEQ: OC

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
S2K S2K	84.98	352.10	0.683	58.01	240.35	182.34

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

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

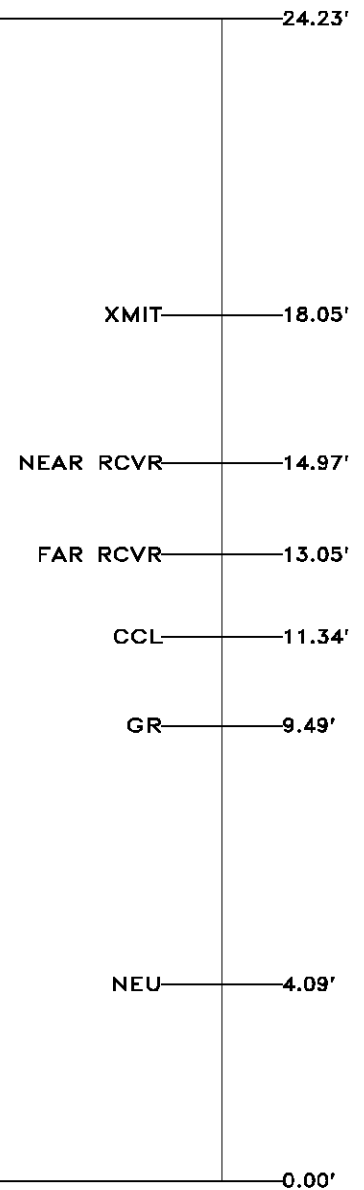
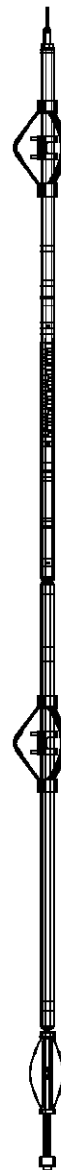
Probe GR/CCL/NEU

Series 2459XA
 Mnemonic PROB
 Diameter 2.75"
 Length 9.42'
 Measure Point 1.21' NEU
 Measure Point 6.60' GR
 Measure Point 8.46' CCL

CENTRALIZER

Series RALCENT
 Mnemonic CENT
 Diameter 3.12"
 Weight 20.00 lb

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



Company WPX ENERGY
 Well JOLLEY KP 344-8
 Field KOKOPELLI
 County GARFIELD State COLORADO

File No: CH062720
 API No: 05045212090000

Location

SHL: 605' FNL, 692' FWL (SEC 16)
 BHL: 749' FSL, 573' FEL (SEC 8)

Elevations

KB 6658 ft
 DF
 GL 6632 ft

8 6S 91W
 KP 11-16 PAD
 NABORS 574

SEC 8 TWP 6S RGE 91W

CASE

Baker Atlas