



Baker Atlas

**RADIAL ANALYSIS
BOND-LOG**

File No: MARATHON OIL COMPANY
 Well: 596-19A-18
 Field: GRAND VALLEY
 County: GARFIELD State: COLORADO
 API No: 06-045-180020000

Location: 1621' PSL & 1283' PRL
 Other Services: 3.781" GAUGE
 SEC: 19 TWP: 5S RGE: 98W

Permanent Datum: S.L. Elevation: 8423 ft
 Log Measured From: K.B. 24 ft Above P. D.
 Drill Measured From: KELLY BISHING
 Elevations: KB 8447 ft
DF 8446 ft
QL 8423 ft

Date	18-JUL-2009	
Run	ONE	
Service Order	578334	
Depth Driller	10179 ft	
Depth Logger	10108 ft	
Bottom Logged Interval	10108 ft	
Top Logged Interval	20 ft	
Time Started	14:00	
Time Finished	19:00	
Operator Rig Time	5 HRS.	
Type of Fluid in Hole	WATER	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	FULL	
Logged Cement Top	*SEE REMARKS*	
Wellhead Pressure	1000 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	40 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No.	<u>4214</u>	<u>VERNAL, UT</u>
Recorded By	<u>J. SOEJEN</u>	
Witnessed By	<u>MR. DOUG EPPERSON</u>	

- 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.

Bit Size	From	To
7.875 in	SURFACE	10179 ft

Size	Weight	Grade	From	To
4.5 in	11.6 lbm/ft	P-110	SURFACE	10179 ft

Remarks

THIS IS THE FIRST LOG OF THE WELL
 WELL WAS LOGGED WITH 1000 PSI
 *LOGGED BOND TOOL FROM PBTD TO TOP OF 'GOOD BOND' CUT OFF AND
 THEN AGAIN FROM 2500' TO 1900' AS PER COMPANY REQUEST*

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	LOG	1128YA	1000	CENTRAL UTZ

1	1	GR/OCL	2459XA	120	CENTRALIZED
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***MAIN SECTION
PRIMARY PRESENTATION
WITH 1000 PSI***

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.470	usec	26.280	10131.500
RAL	Amp Gate Start Near	192.925	usec	26.280	10131.500
RAL	Amp Gate Start Radial	191.335	usec	26.280	10131.500
RAL	Amp Gate Width Far	25.000	usec	26.280	10131.500
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RAL	casing od	4.500	inches	26.280	10131.500
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RAL	FB Start Far	291.900	usec	26.280	10131.500
RAL	FB Start Near	175.391	usec	26.280	10131.500
RAL	FB Start Radial	175.391	usec	26.280	10131.500
RAL	FB Thresh Far	15.000	mv	26.280	10131.500
RAL	FB Thresh Near	10.000	mv	26.280	10131.500
RAL	FB Thresh Radial	10.000	mv	26.280	10131.500
RAL	Fluid Travel Time	200.000	usec/ft	26.280	10131.405

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
1426XA

-5.390
0.000

GR
NEU

Created by : RAL, v4.8.007

Plotted by : PlotMgr, v5.4.504

Company : MARATHON OIL COMPANY

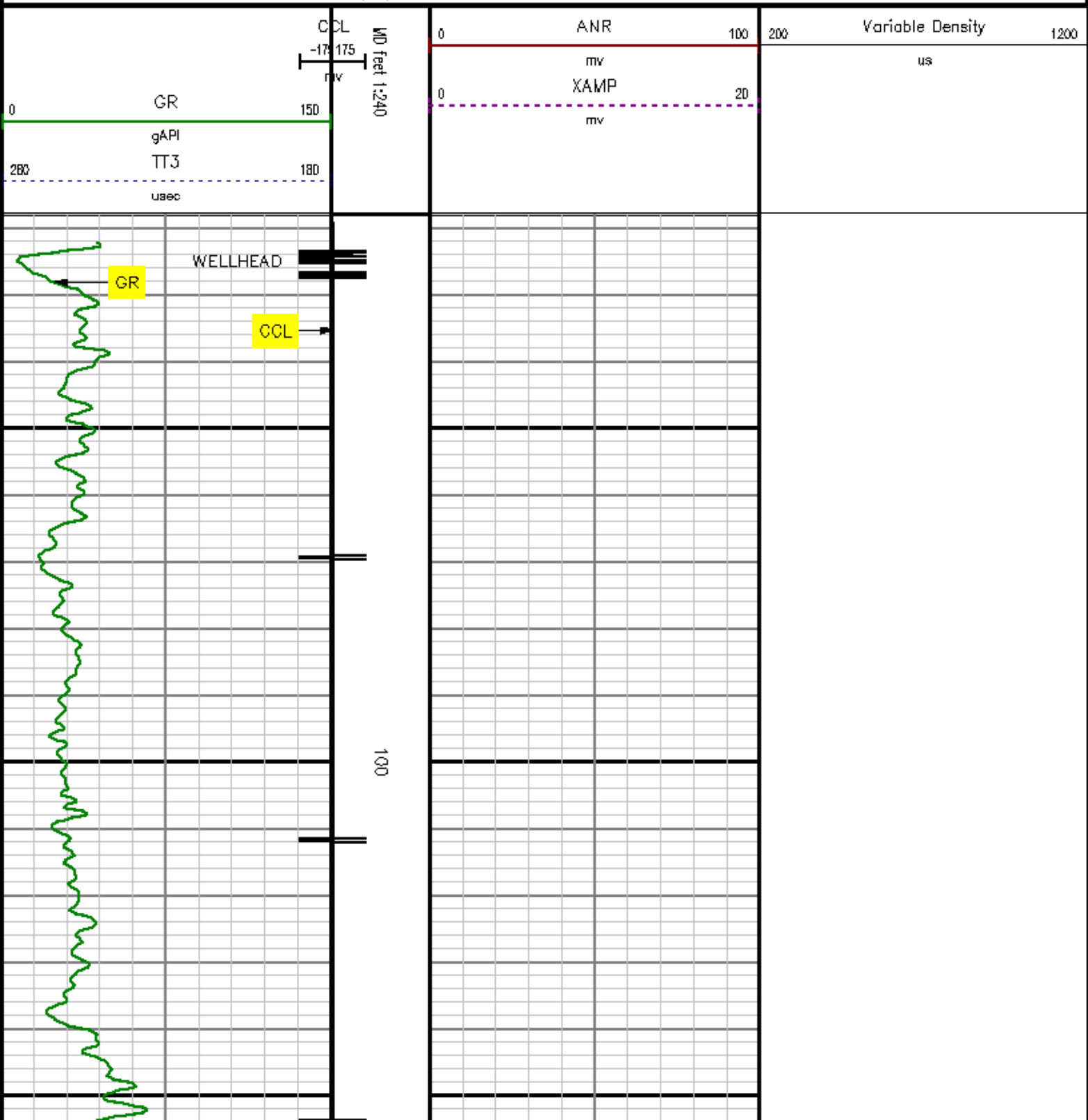
Well : 596-19A-1B

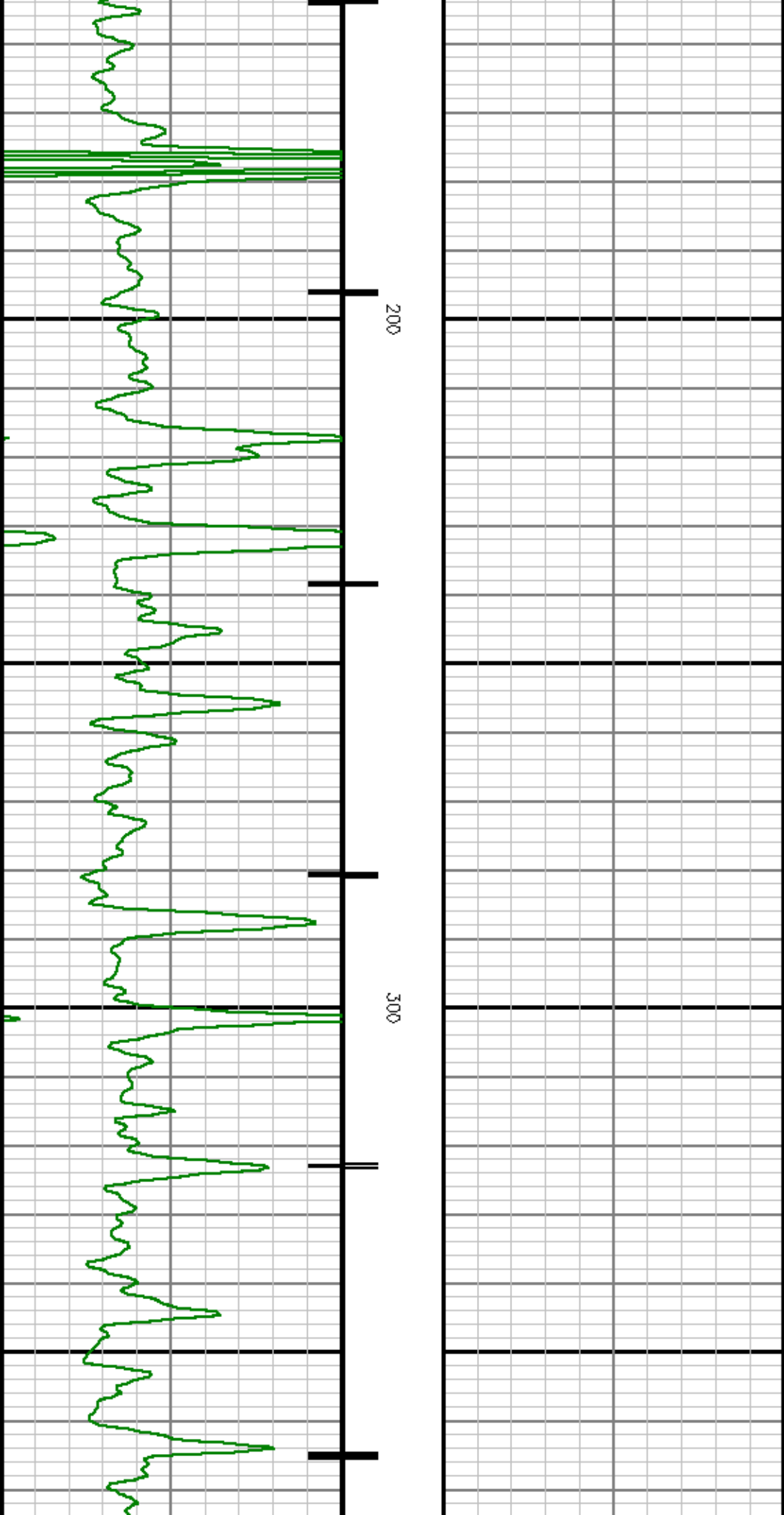
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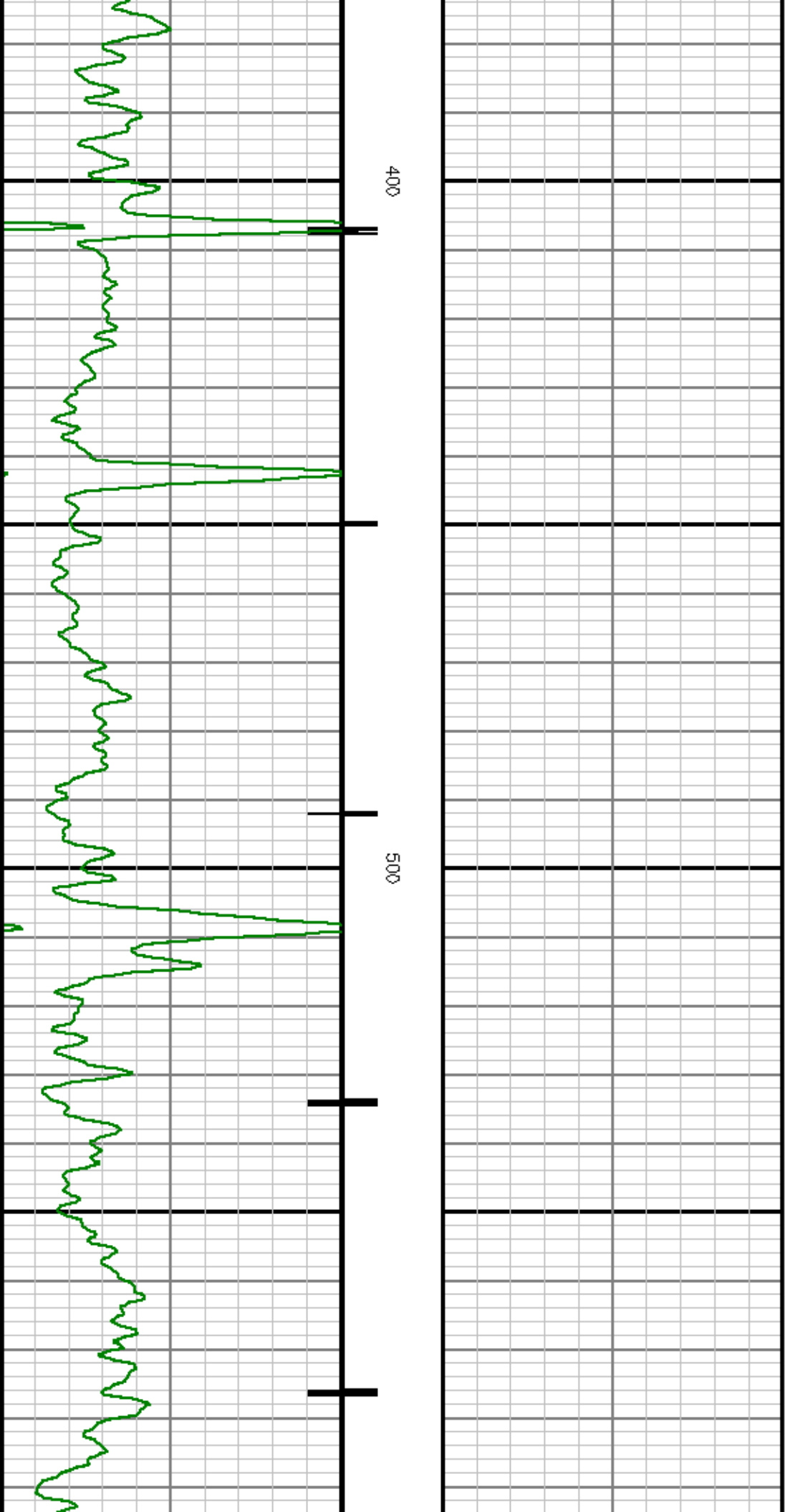
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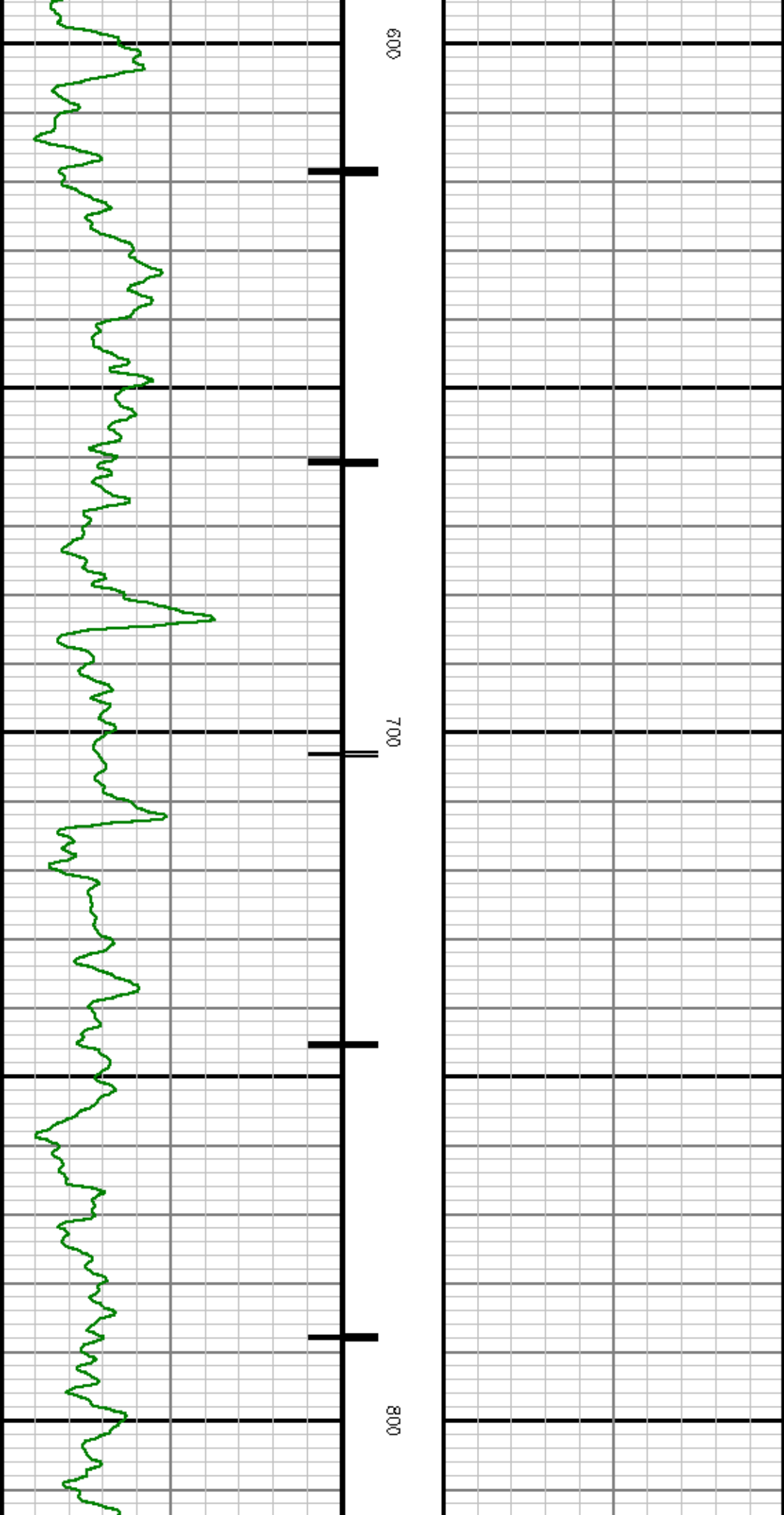
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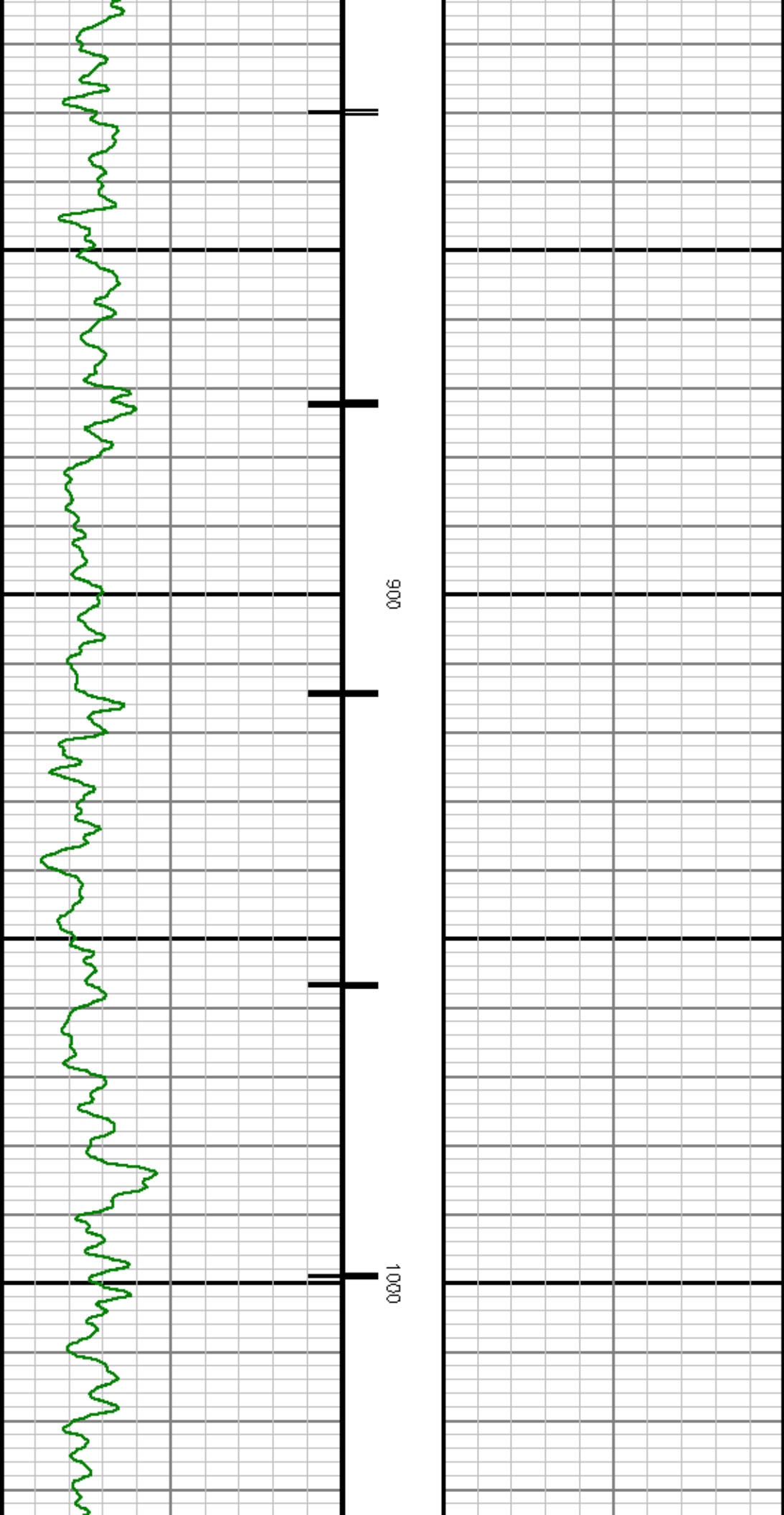
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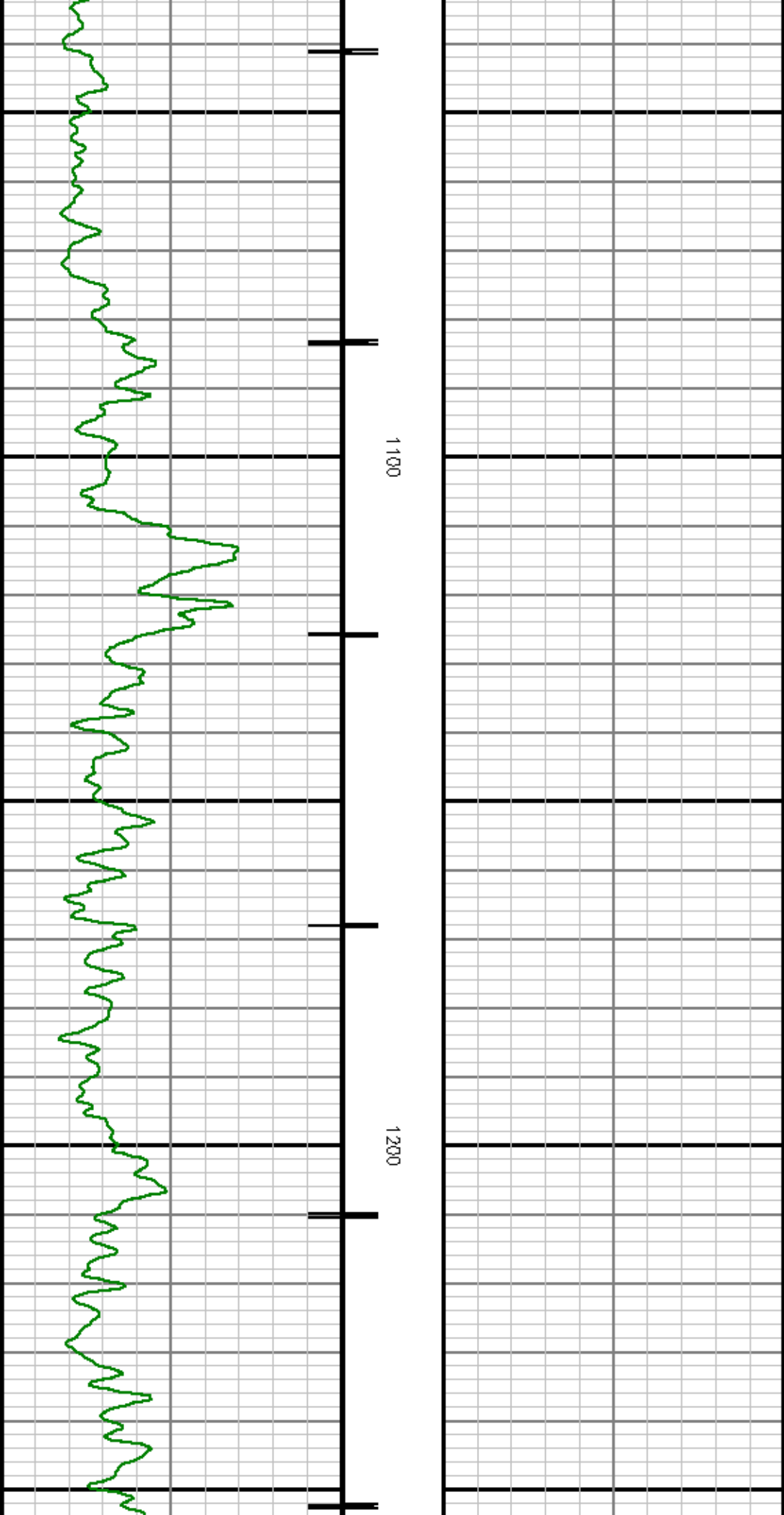


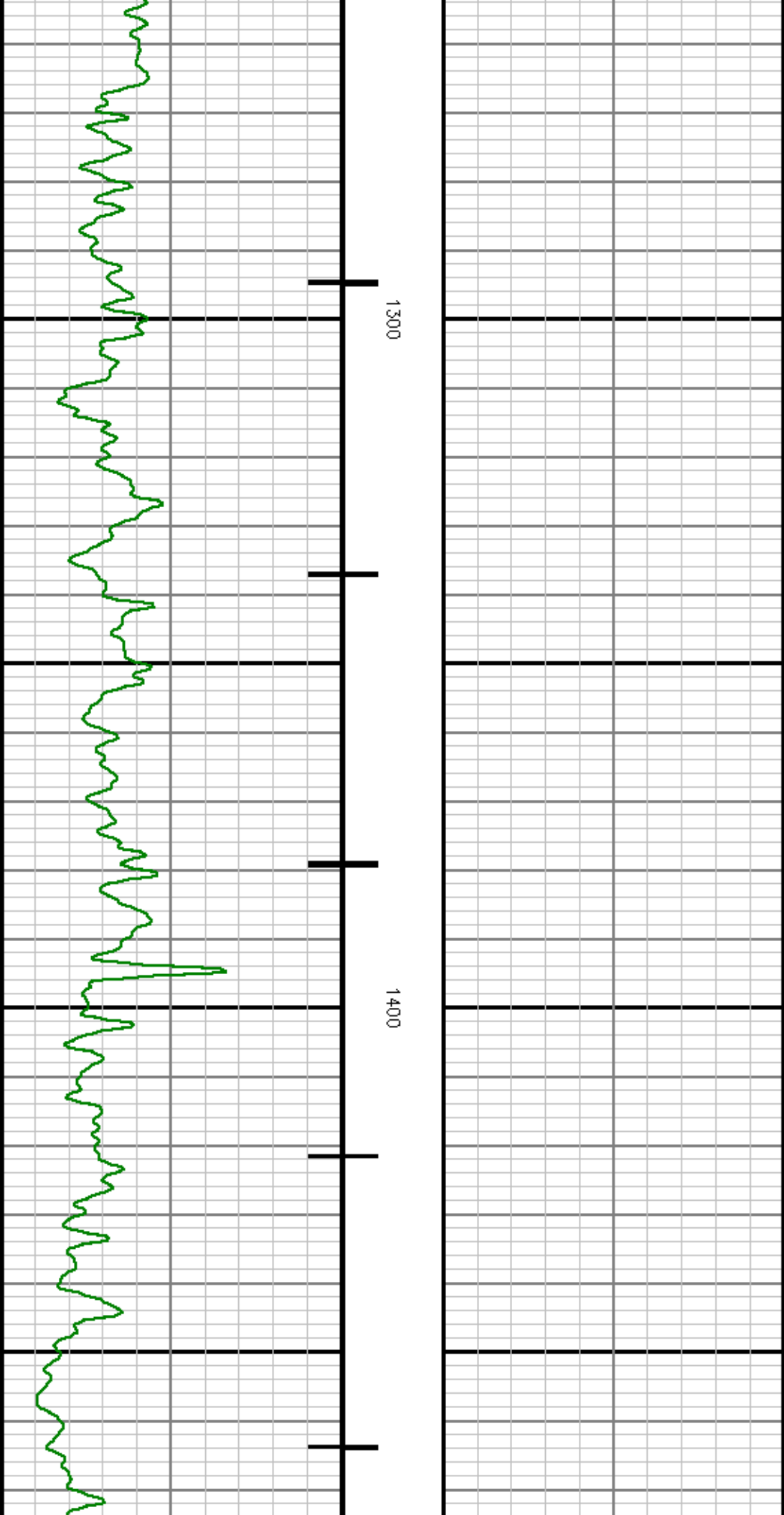


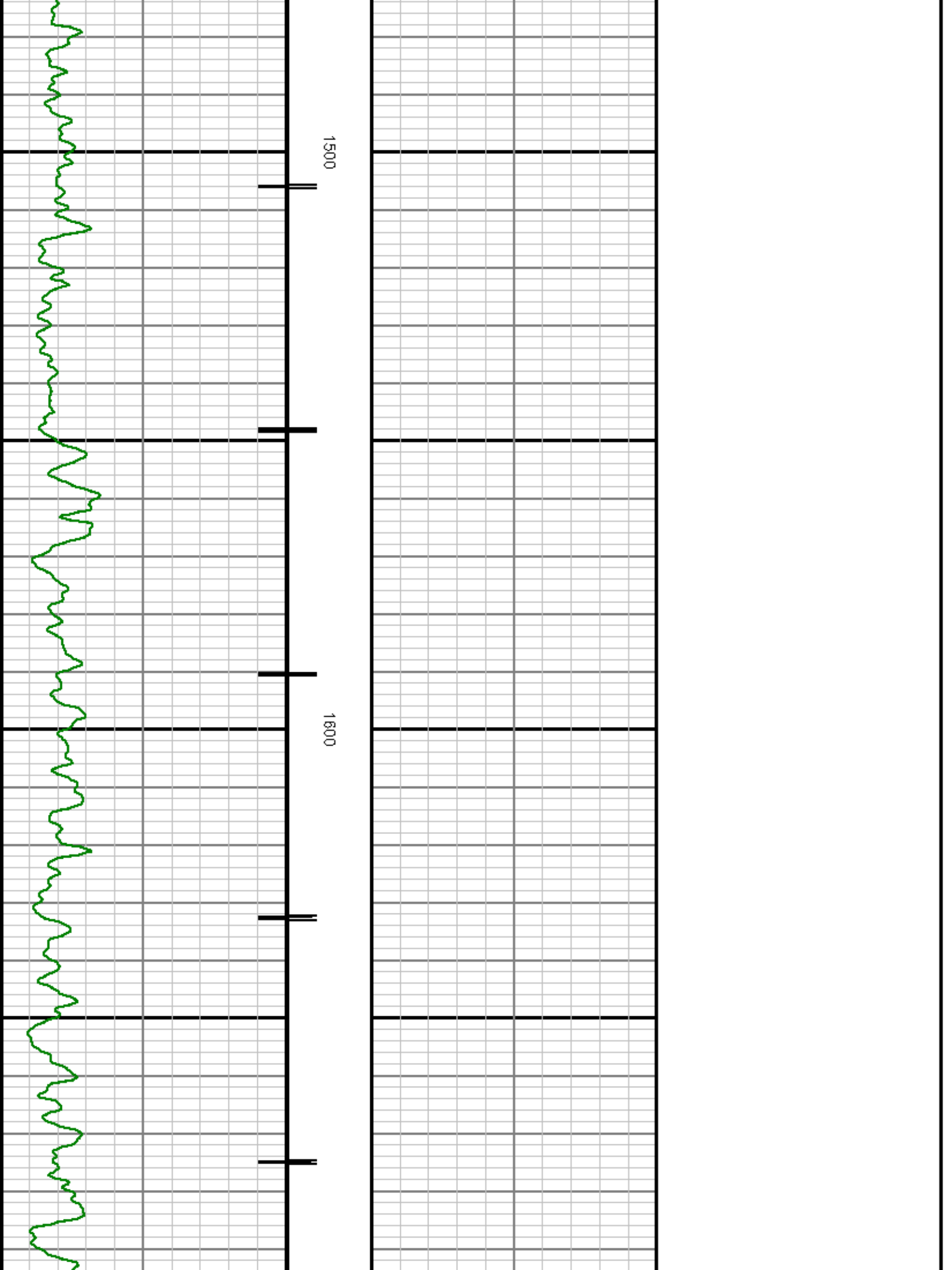


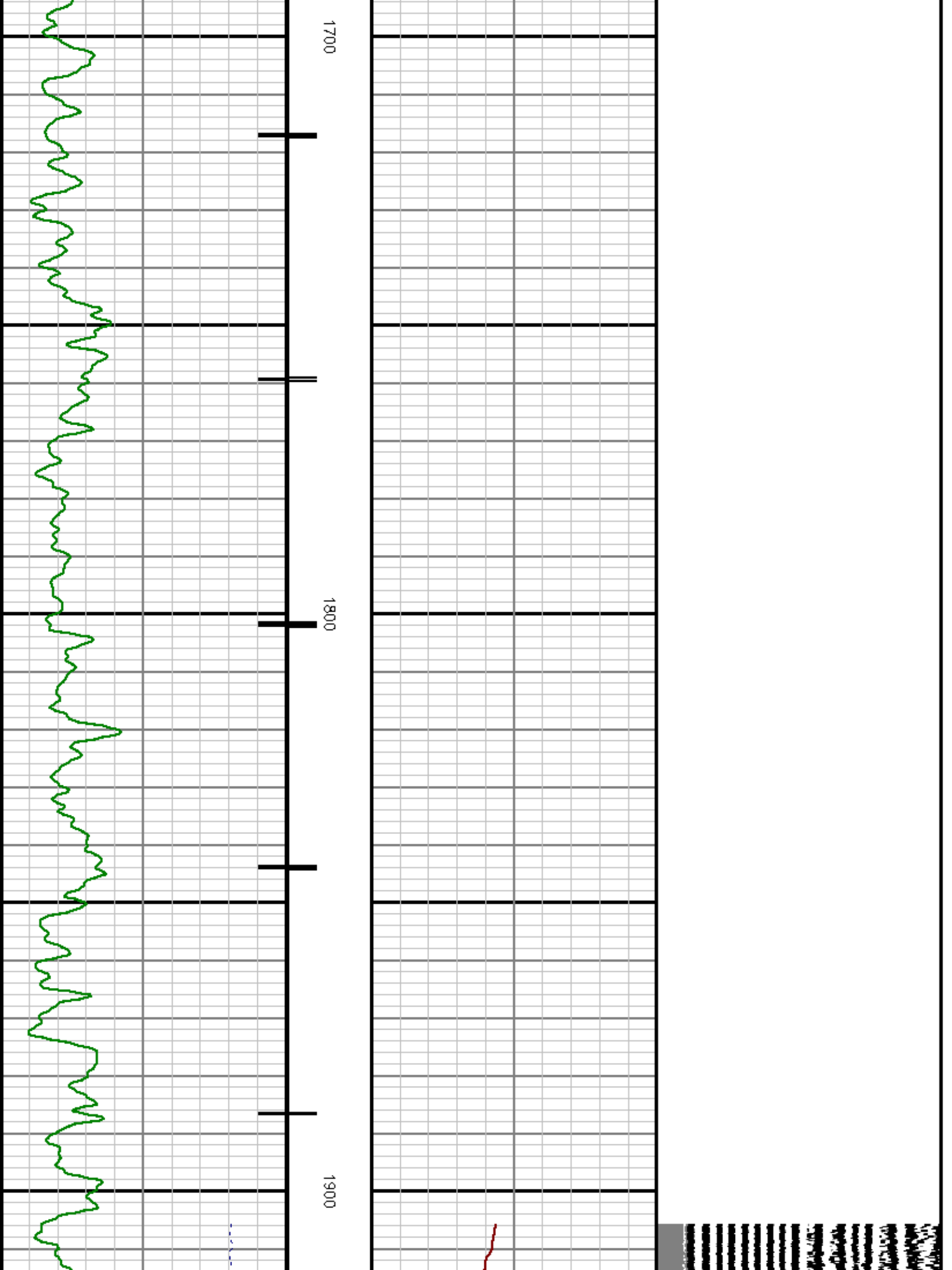


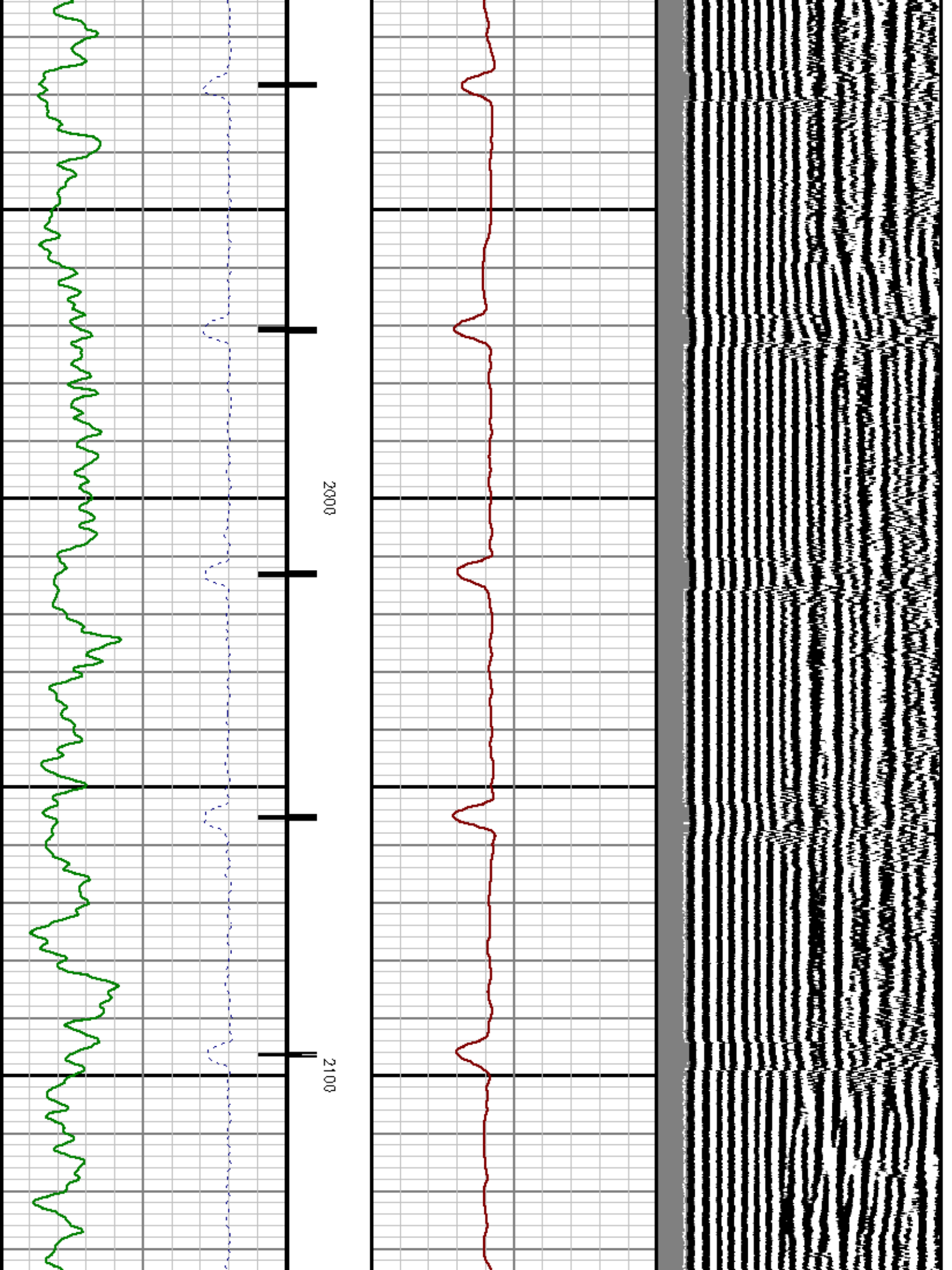


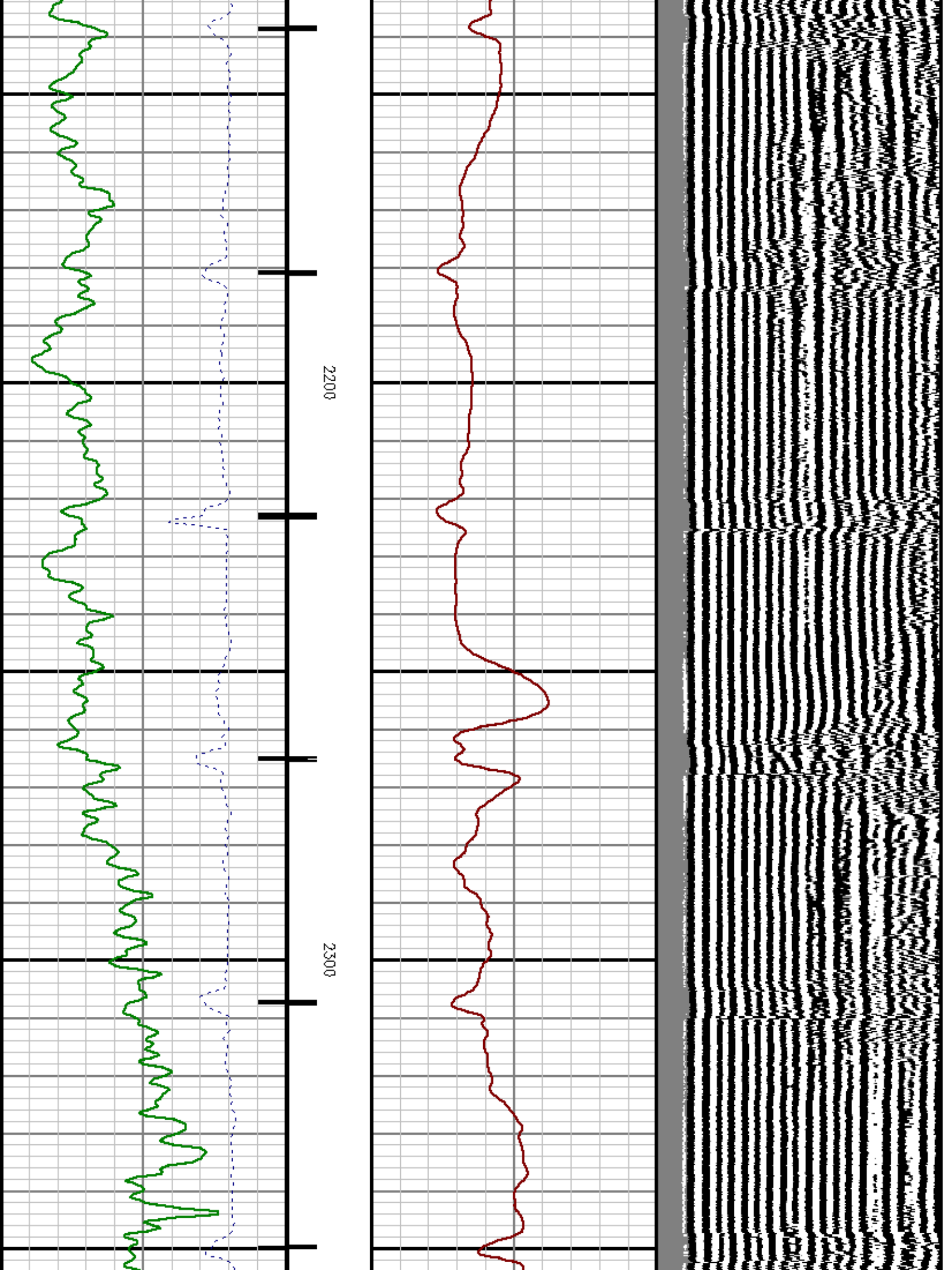


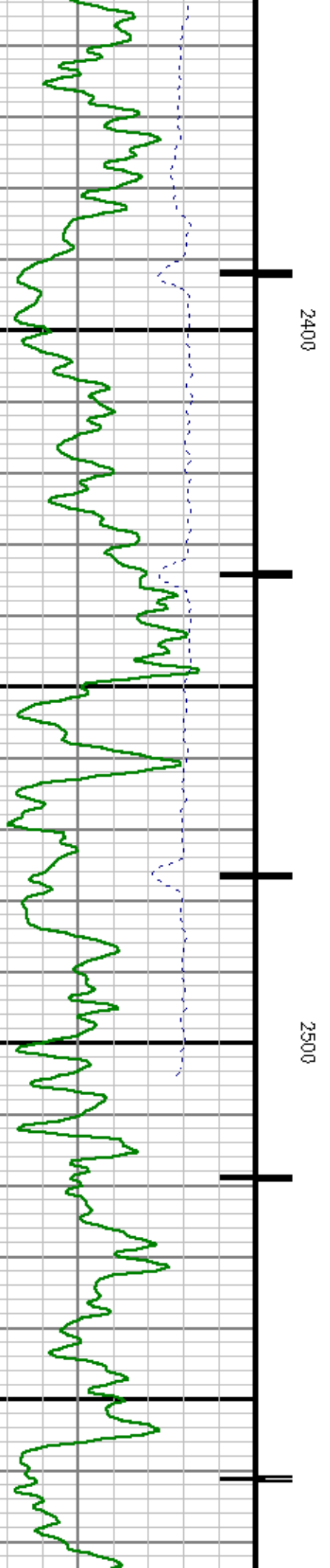
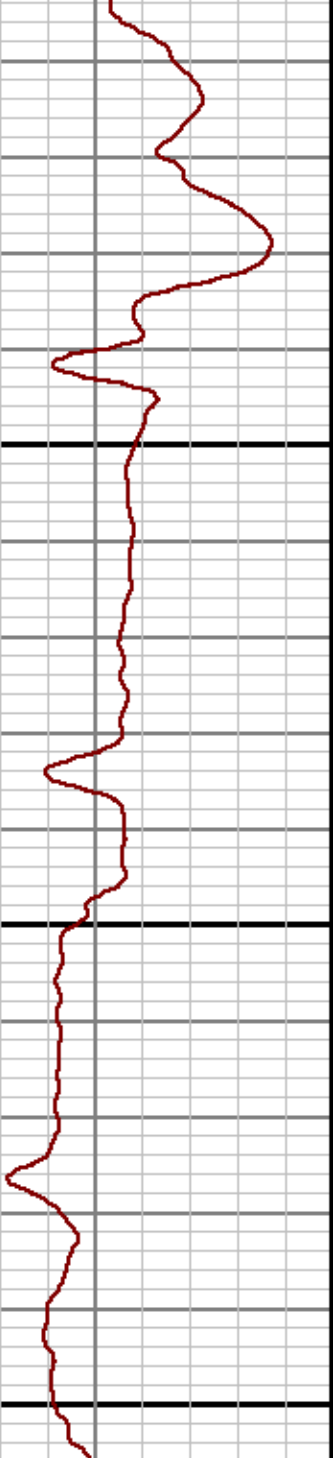
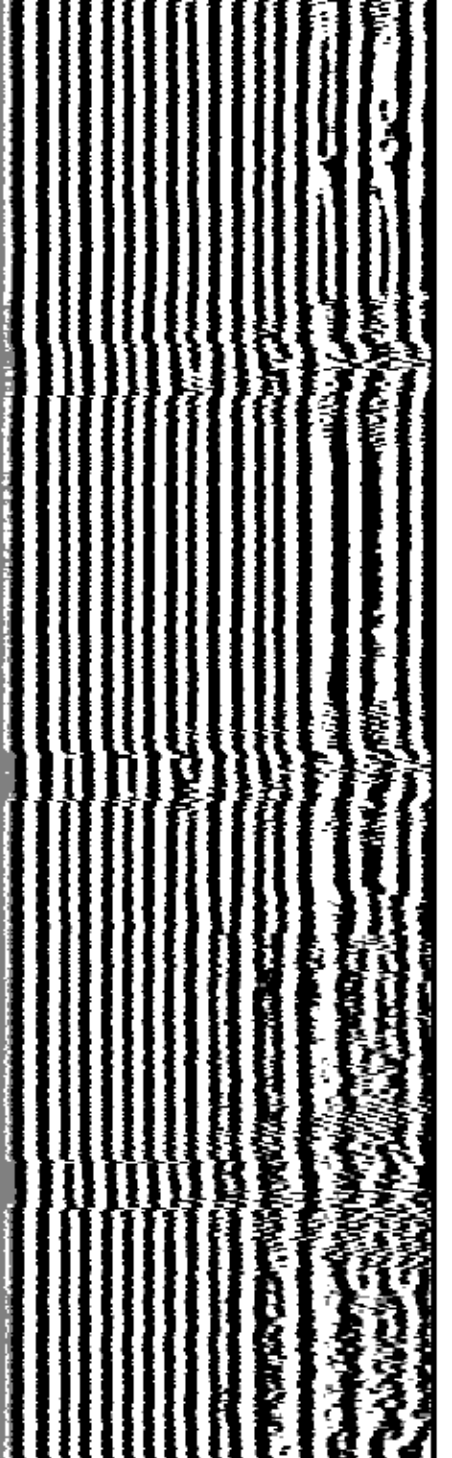


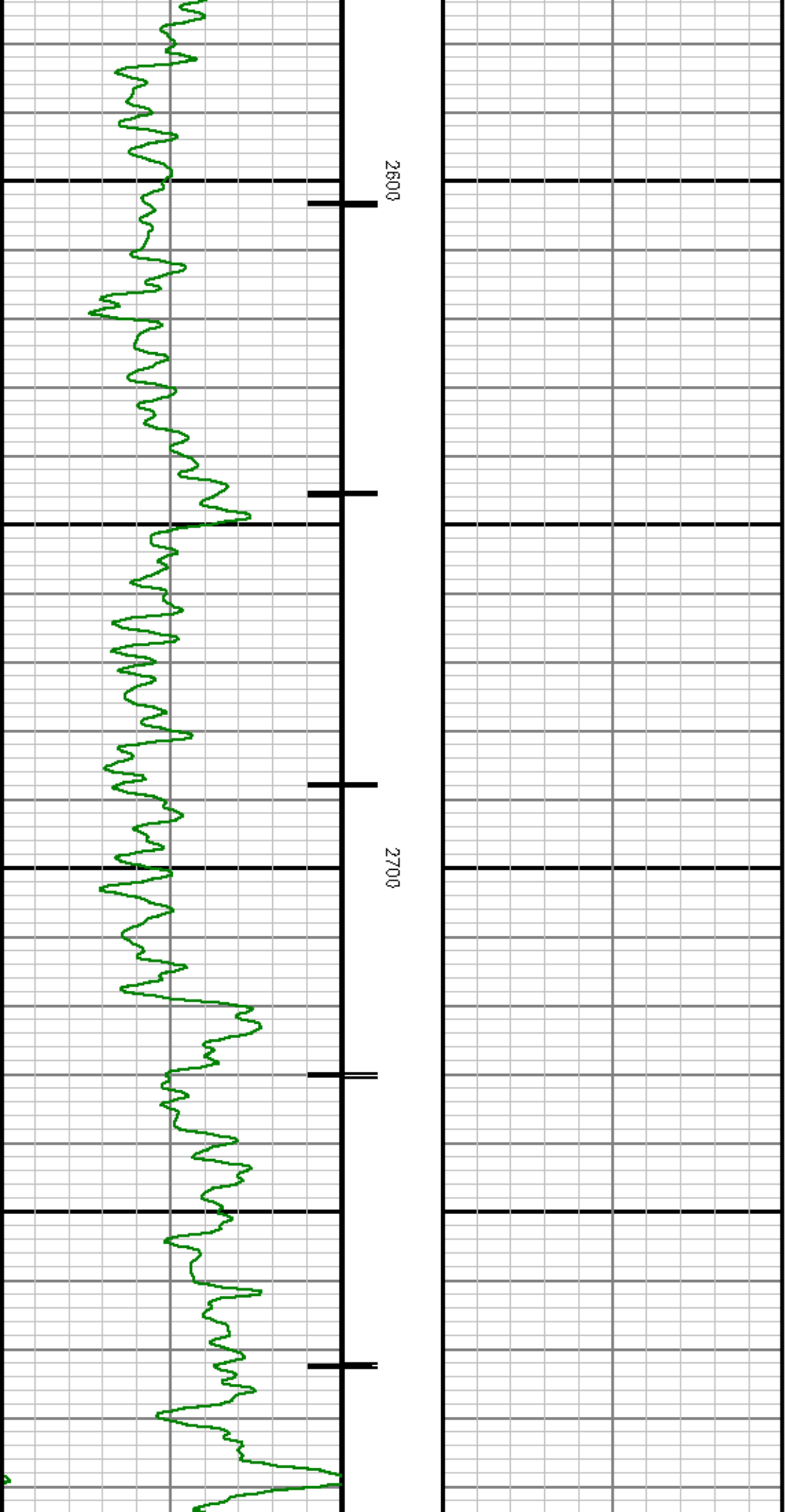


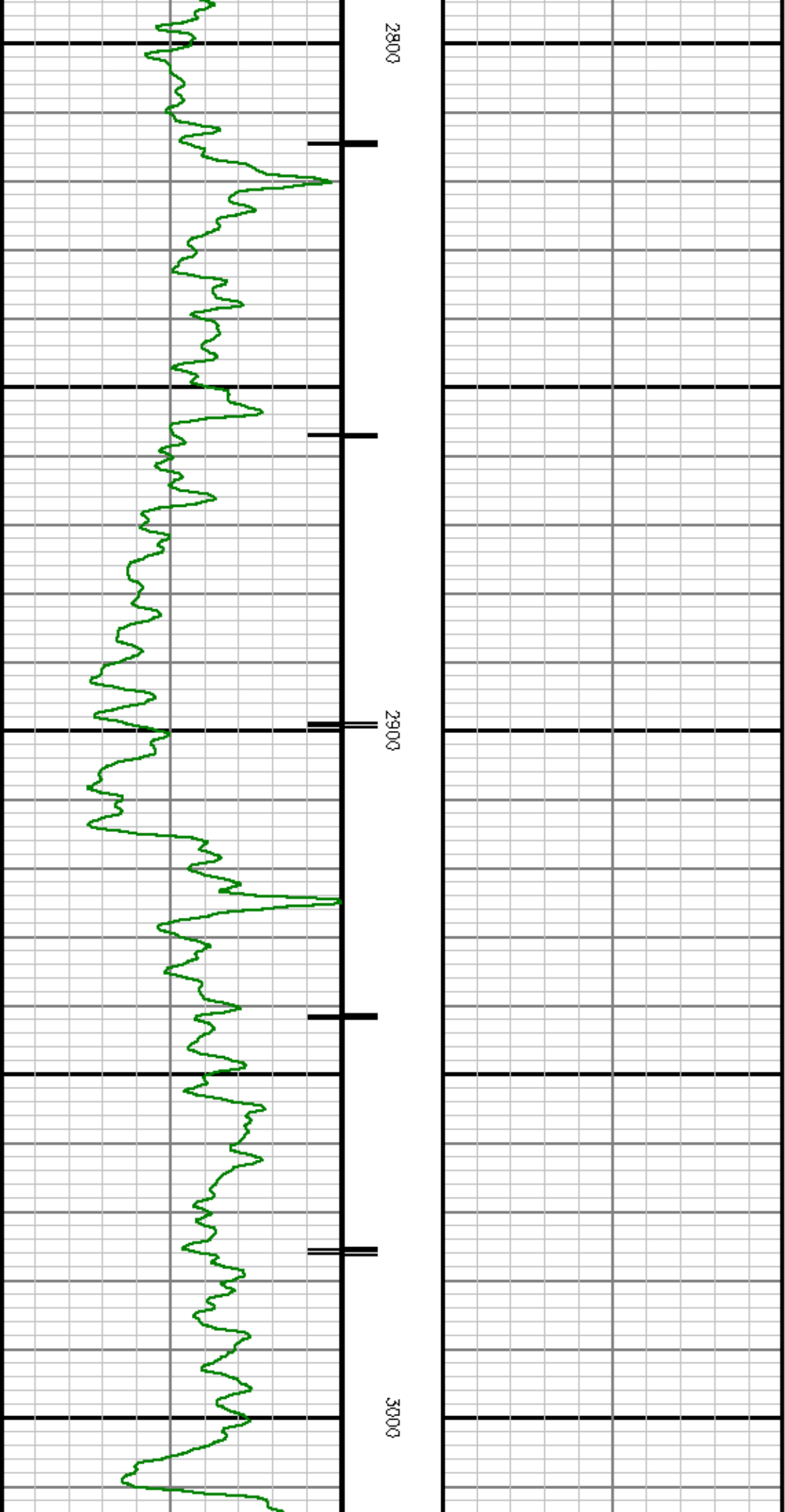


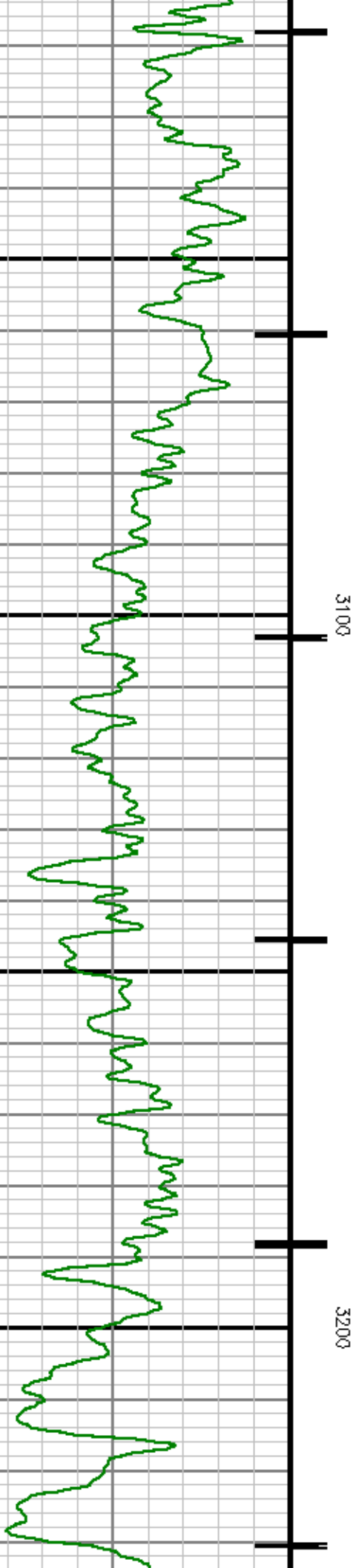


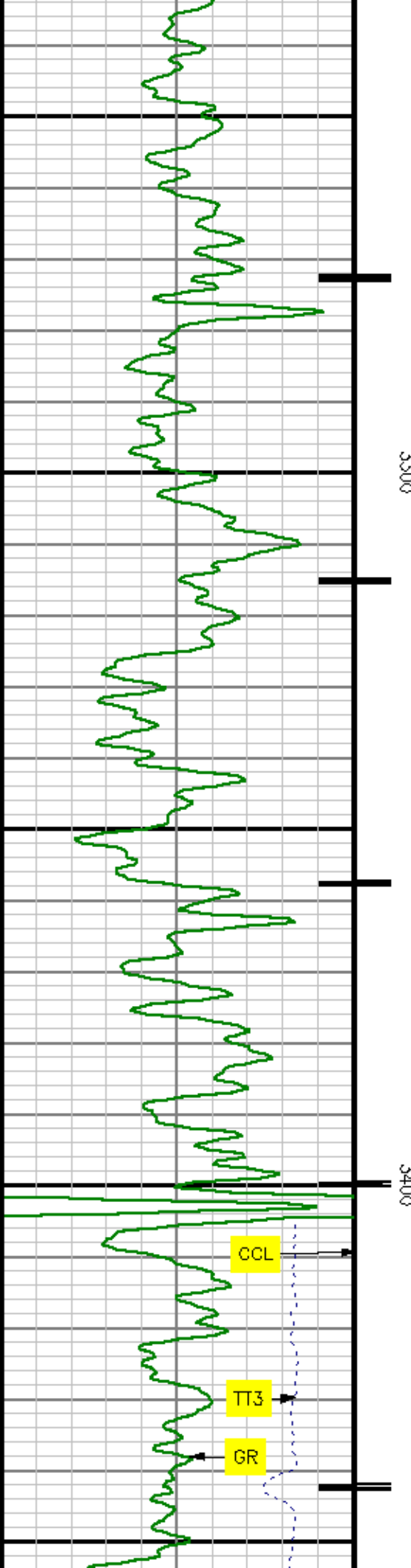












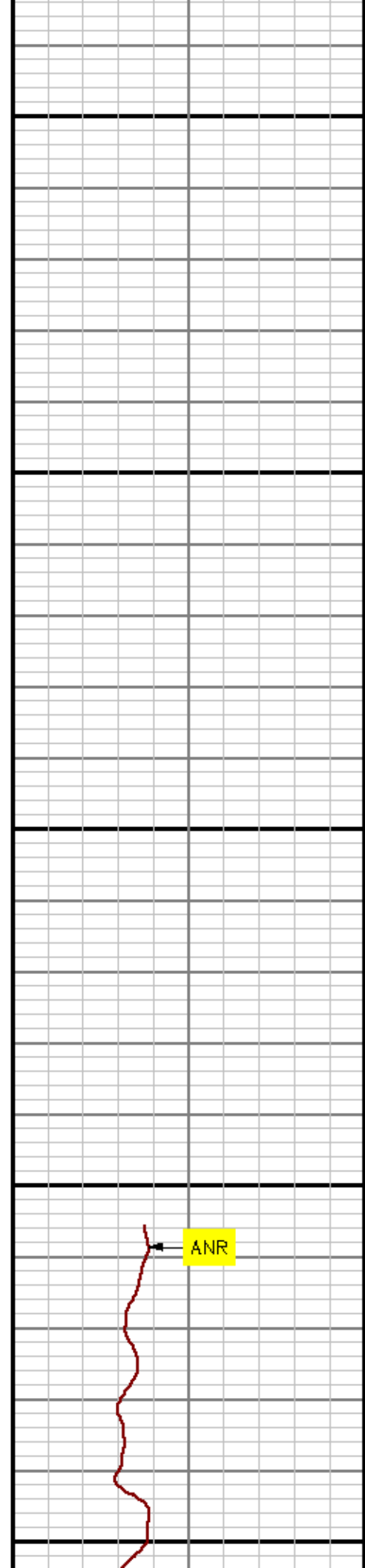
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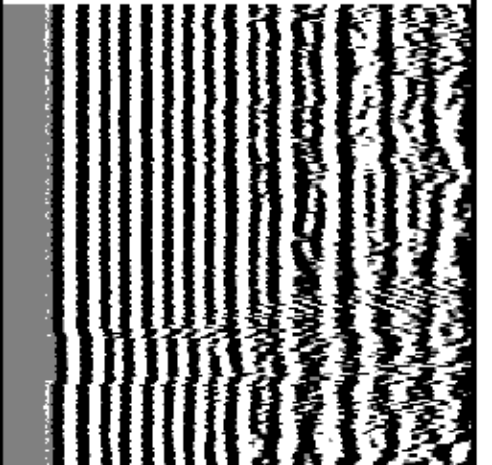
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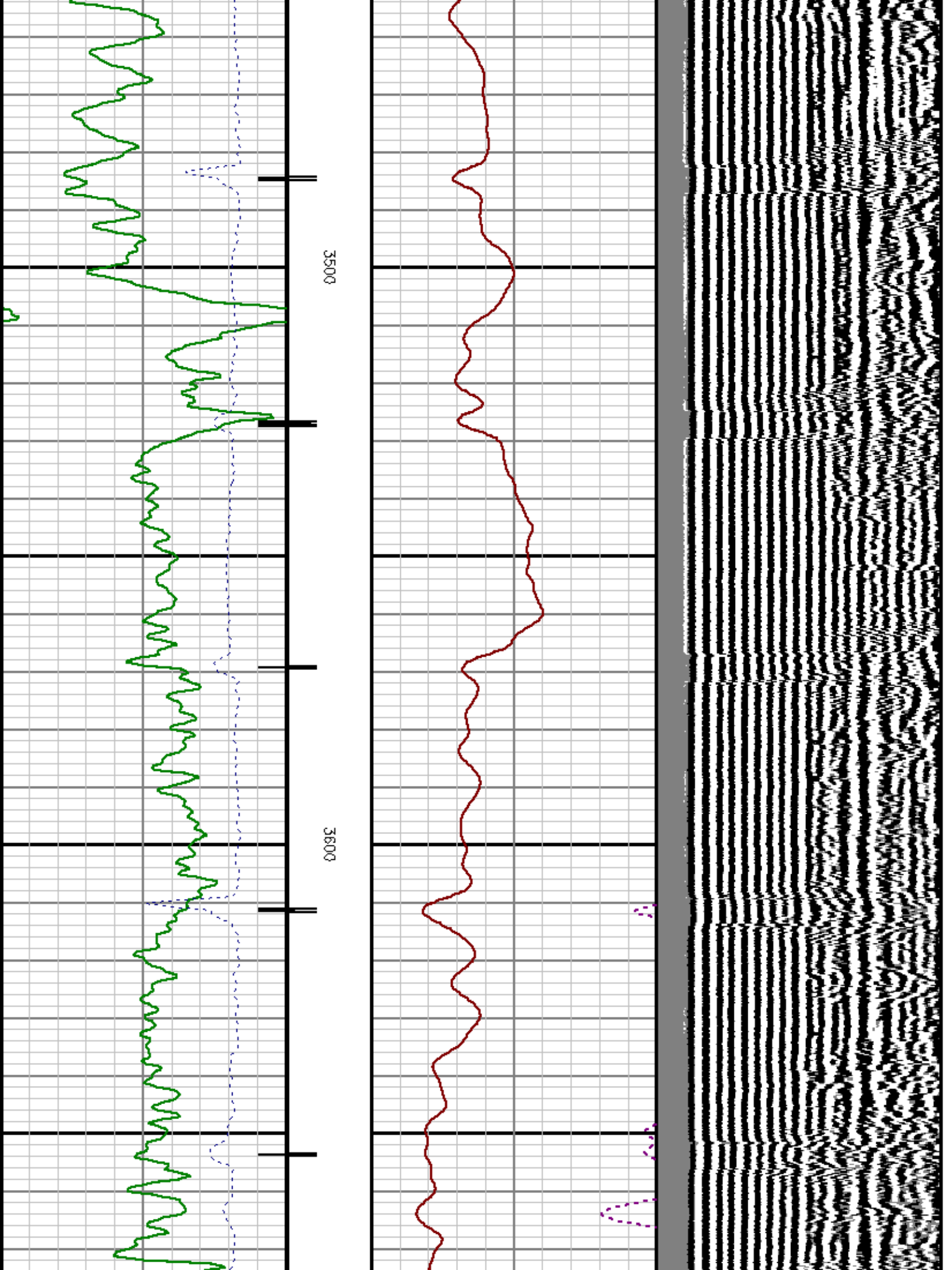
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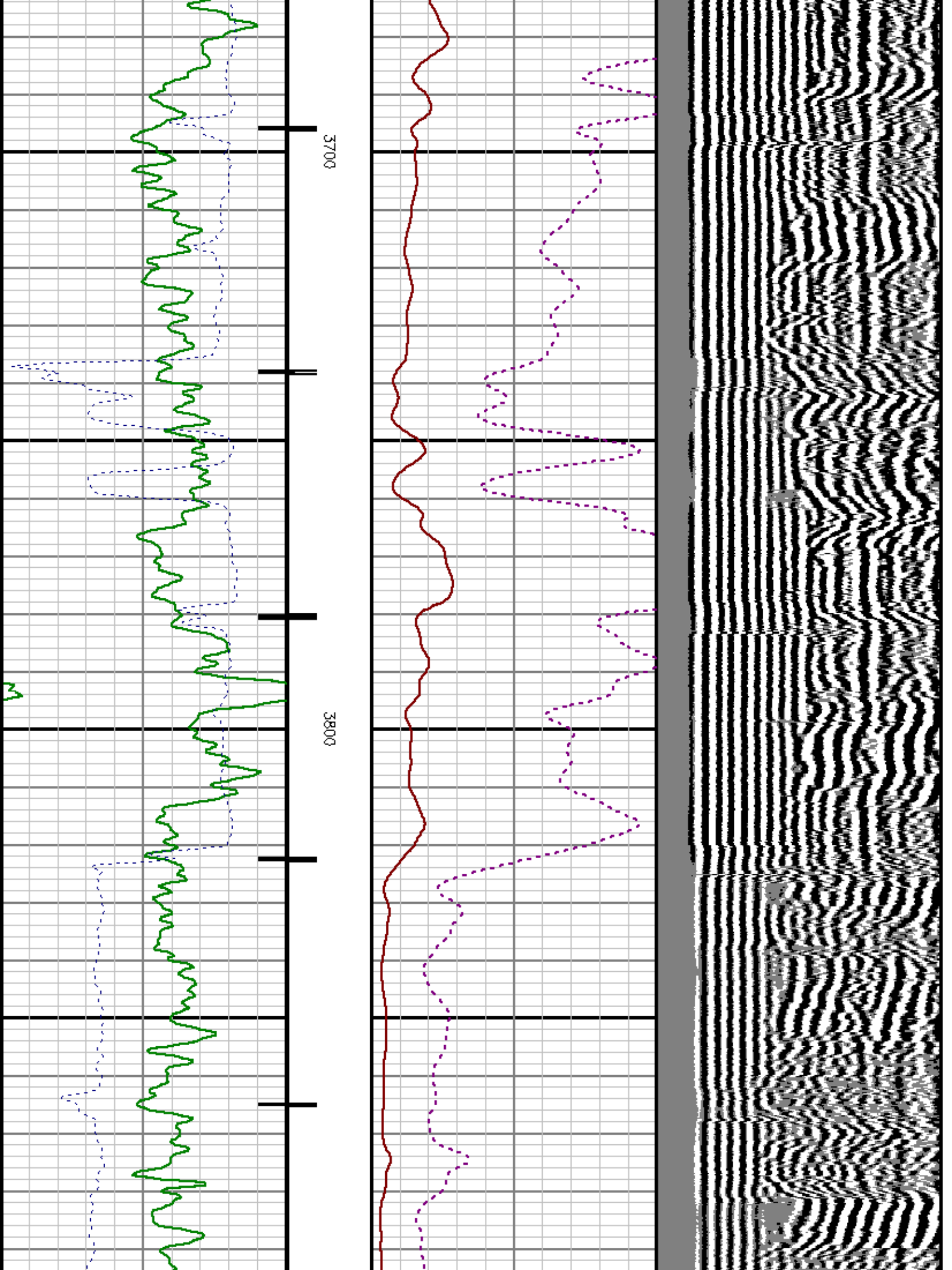
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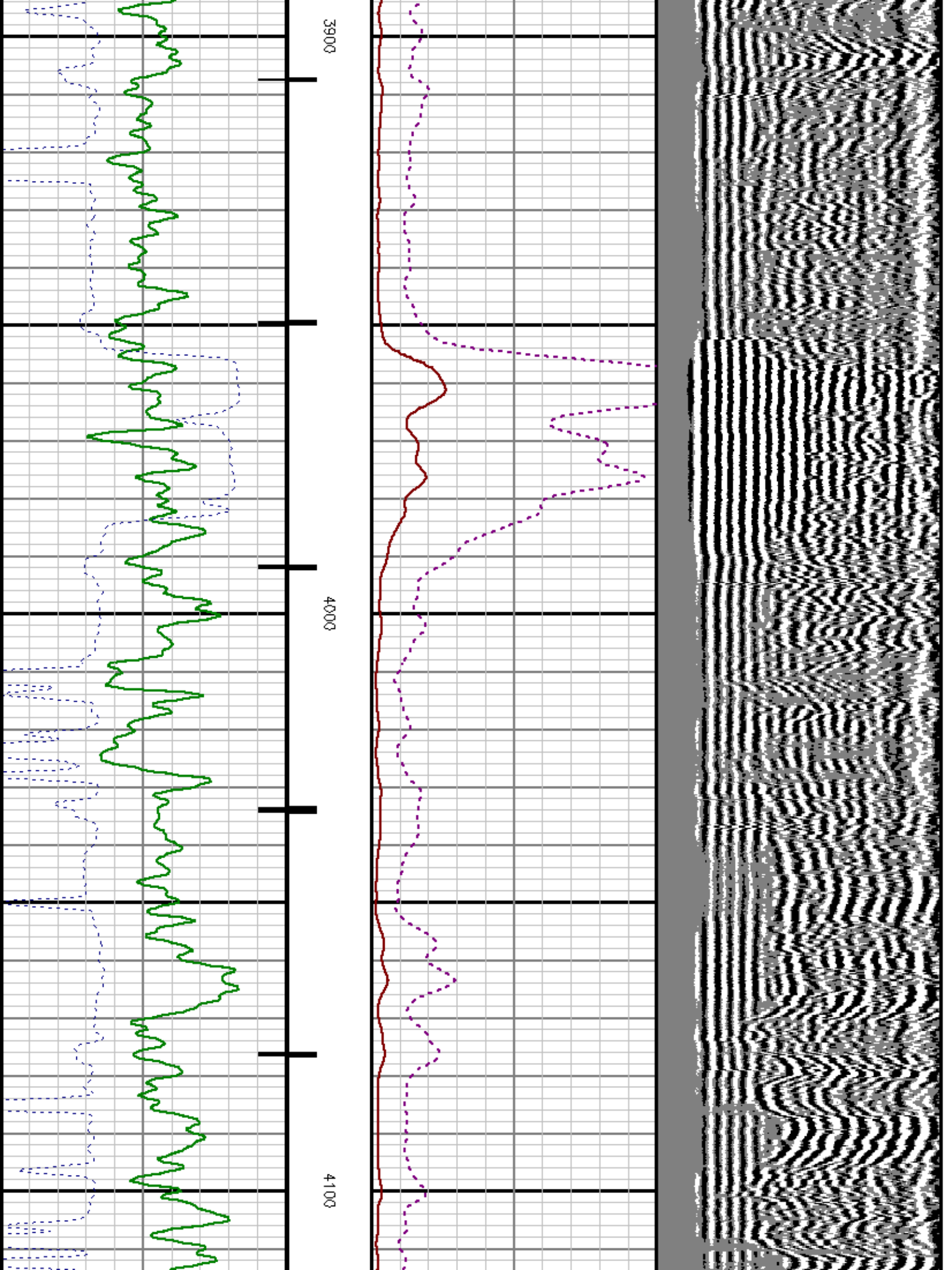


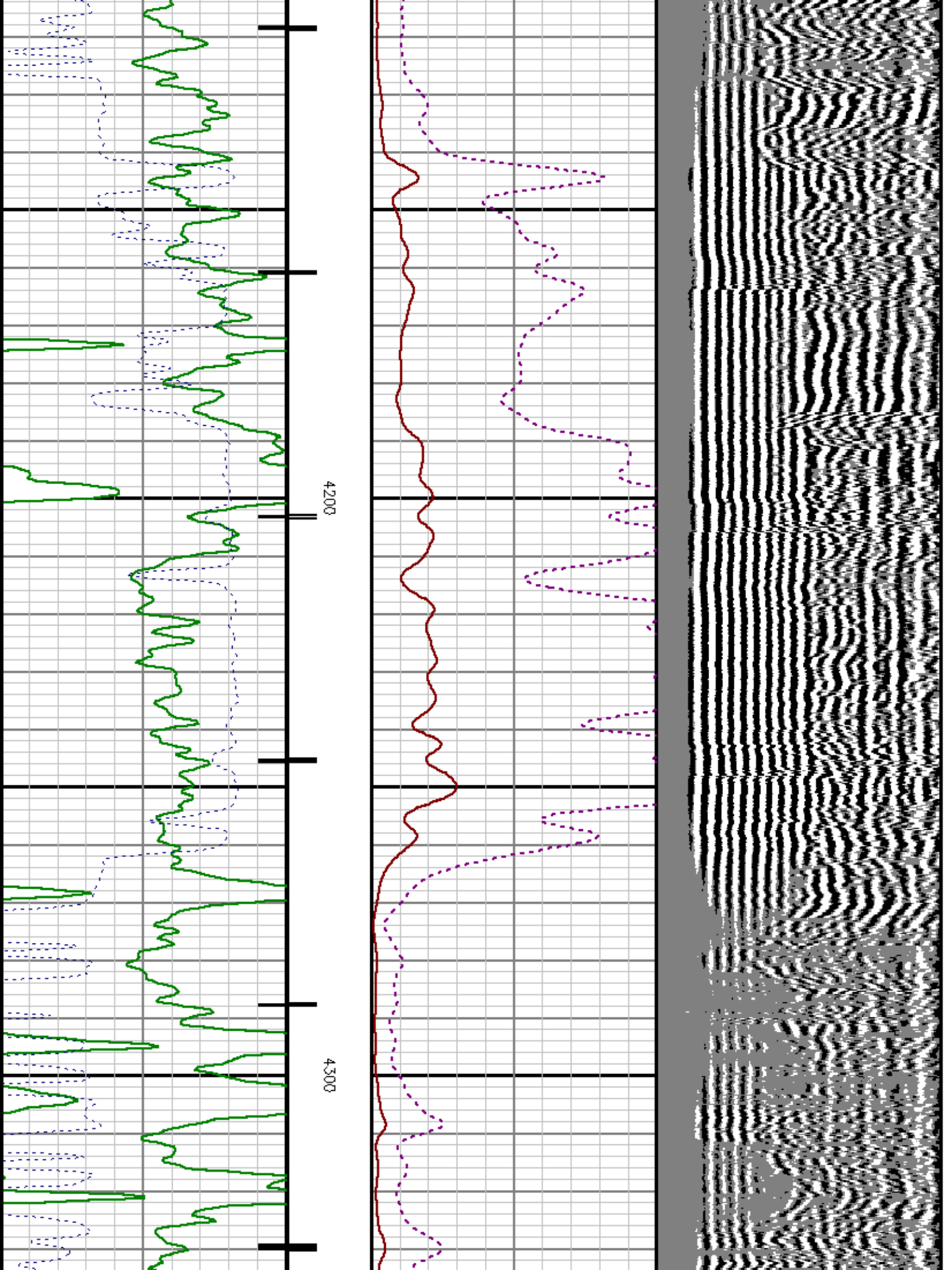
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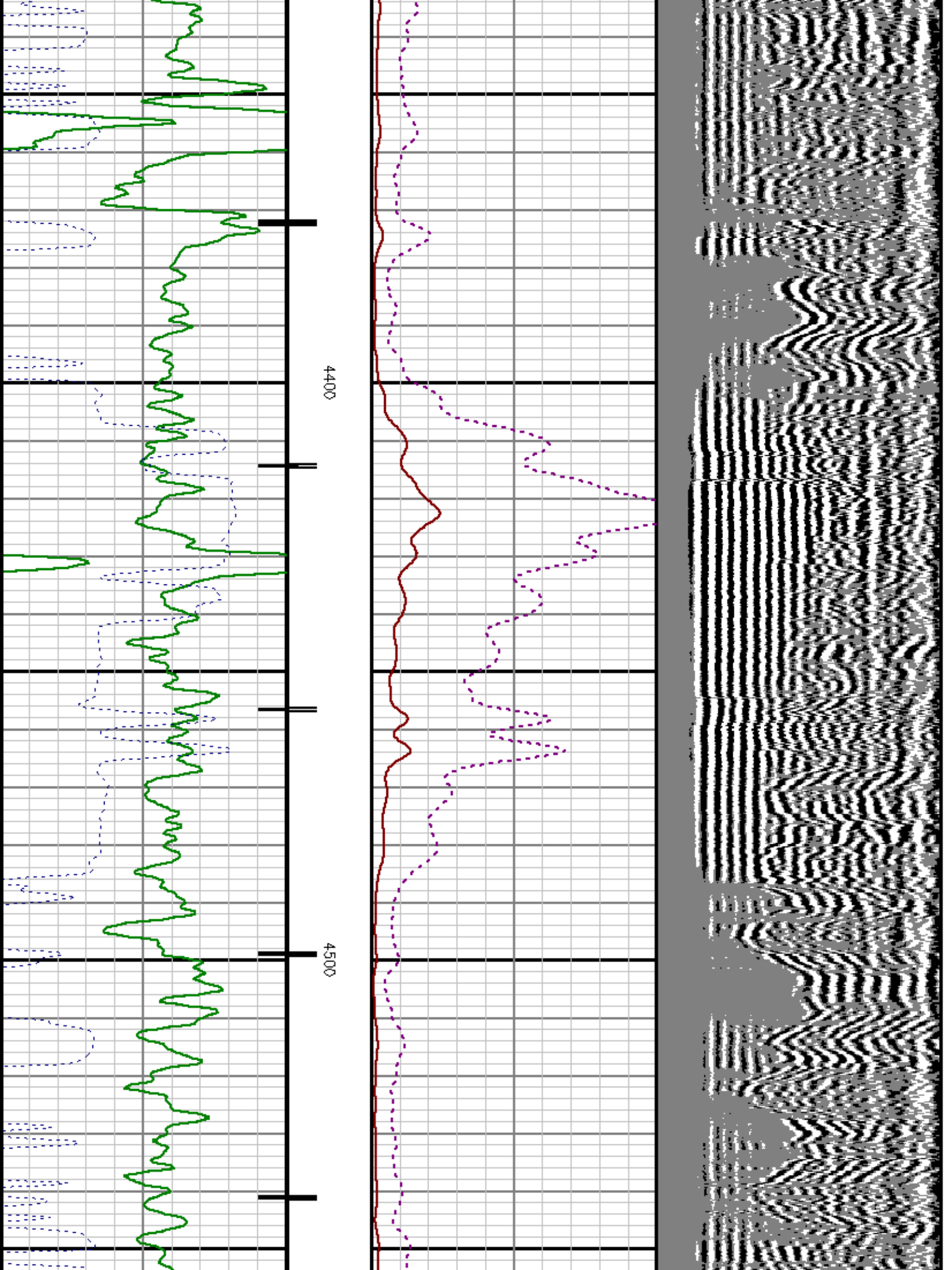


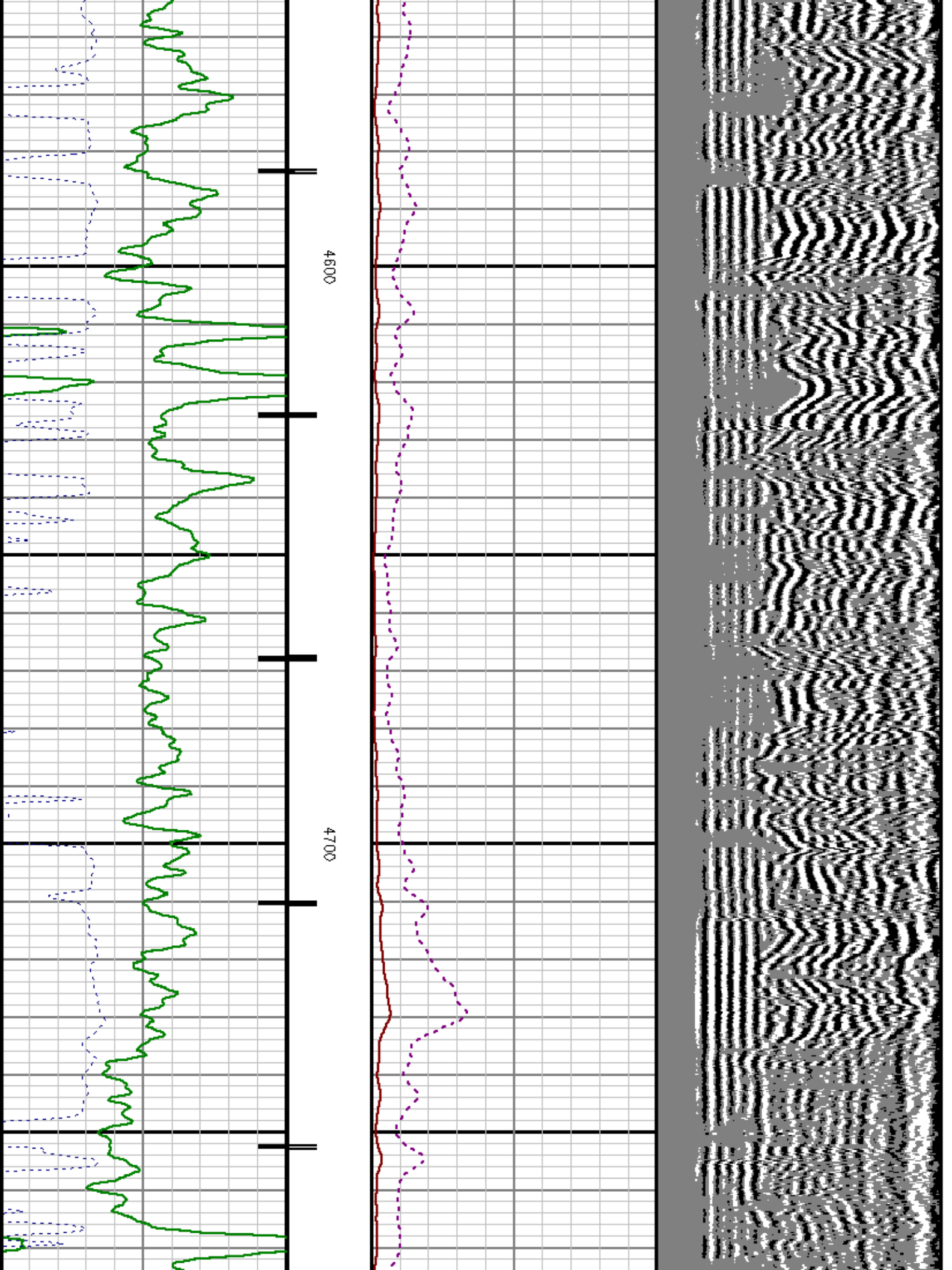


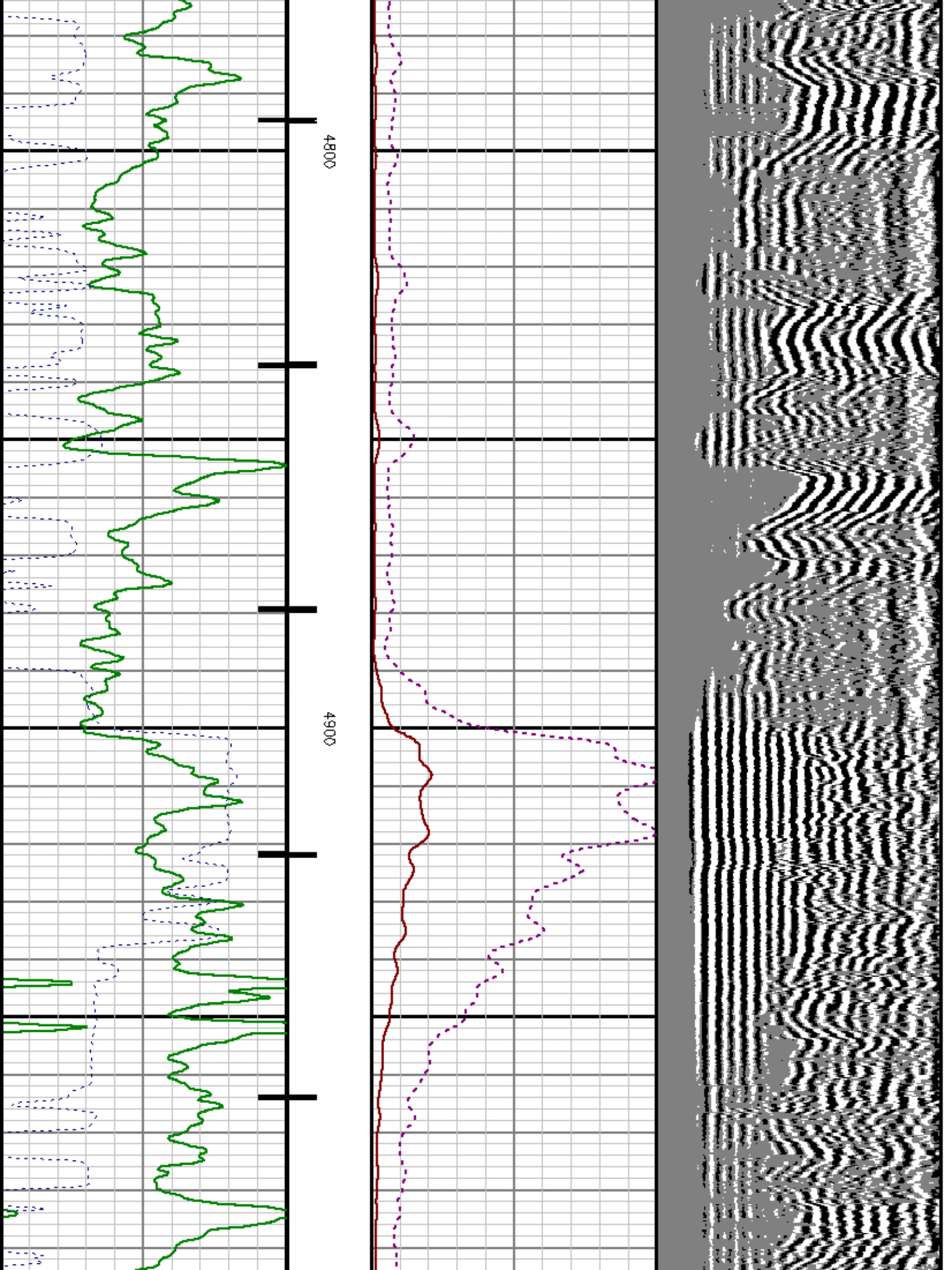


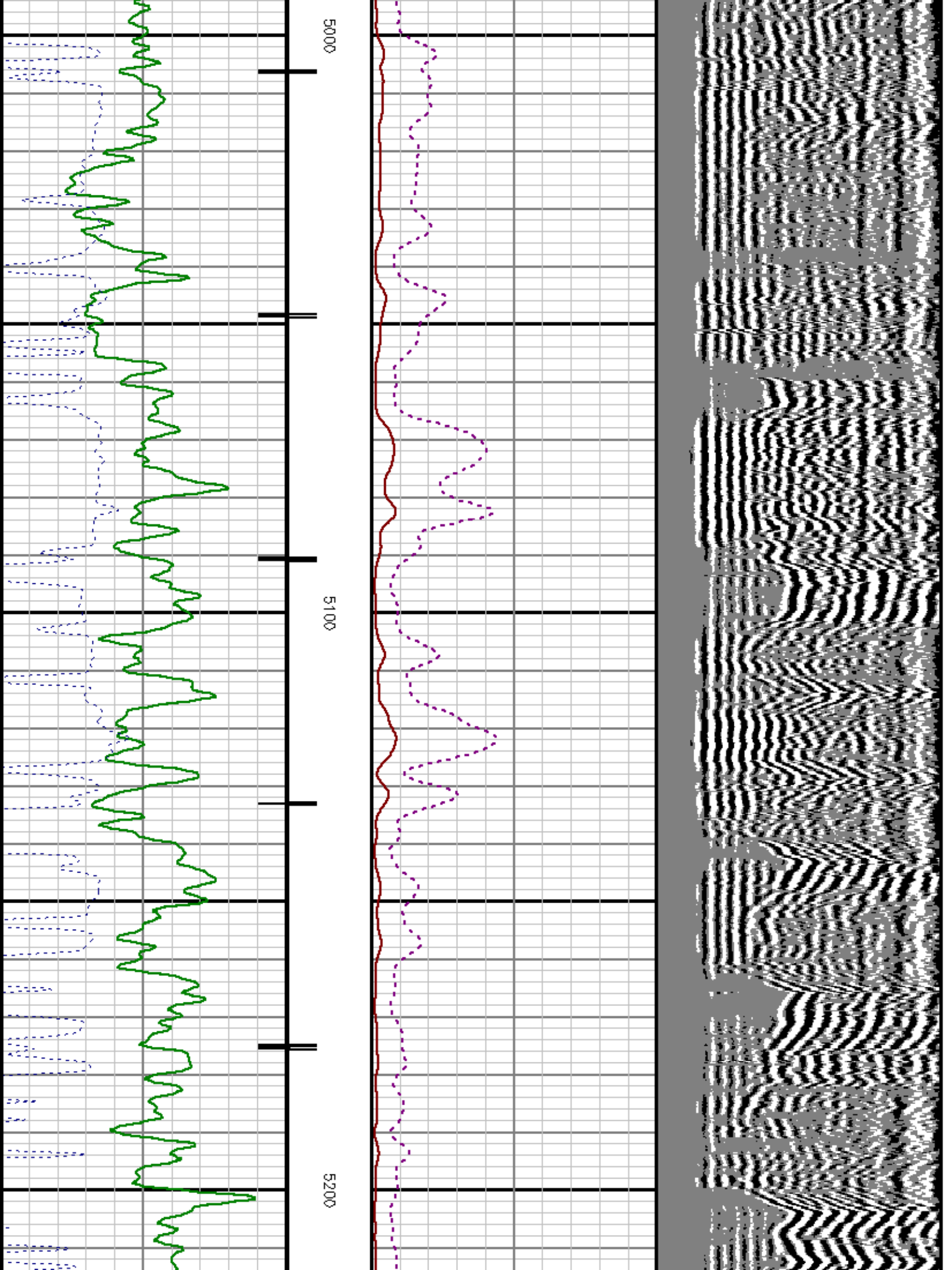


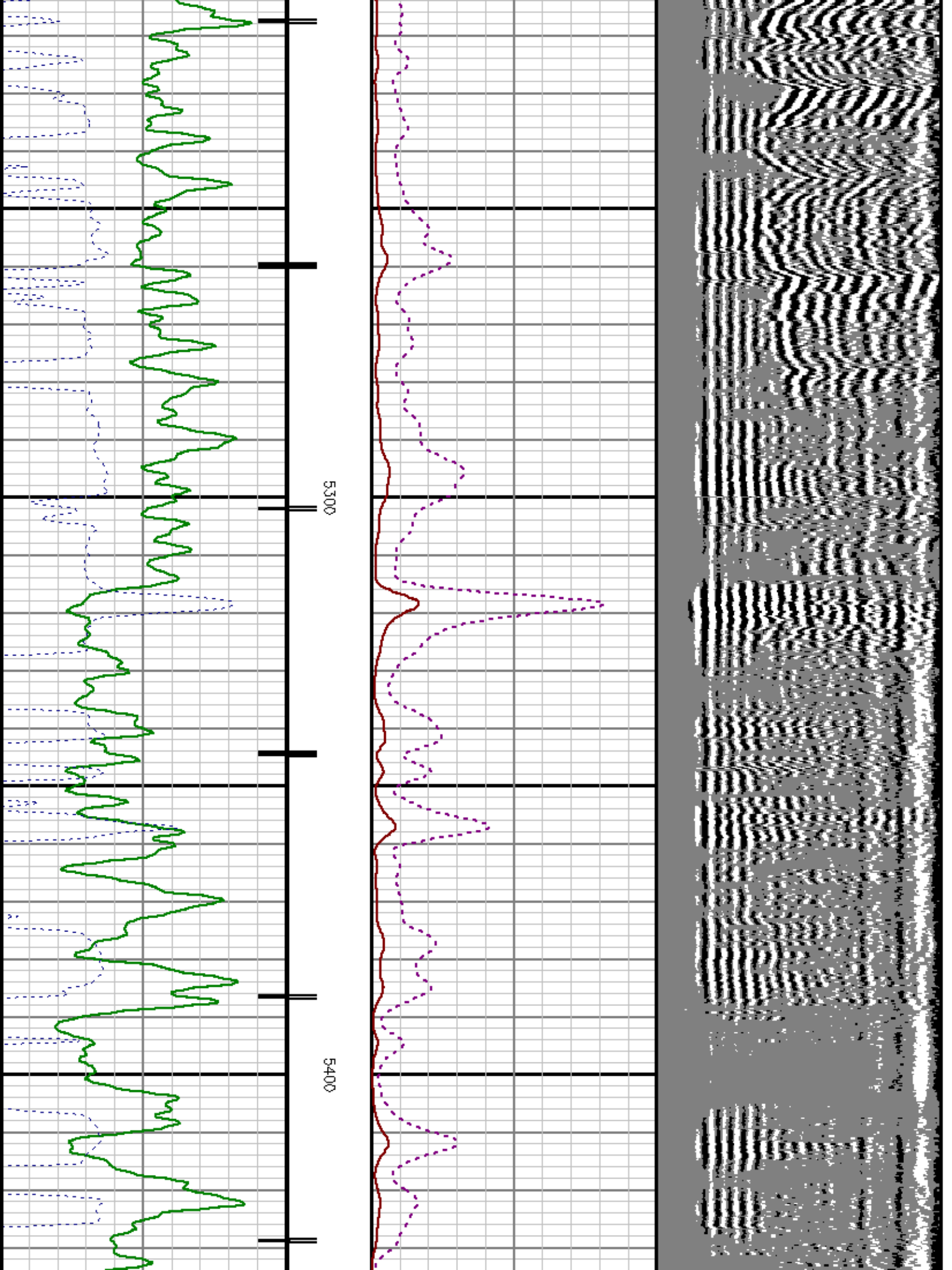


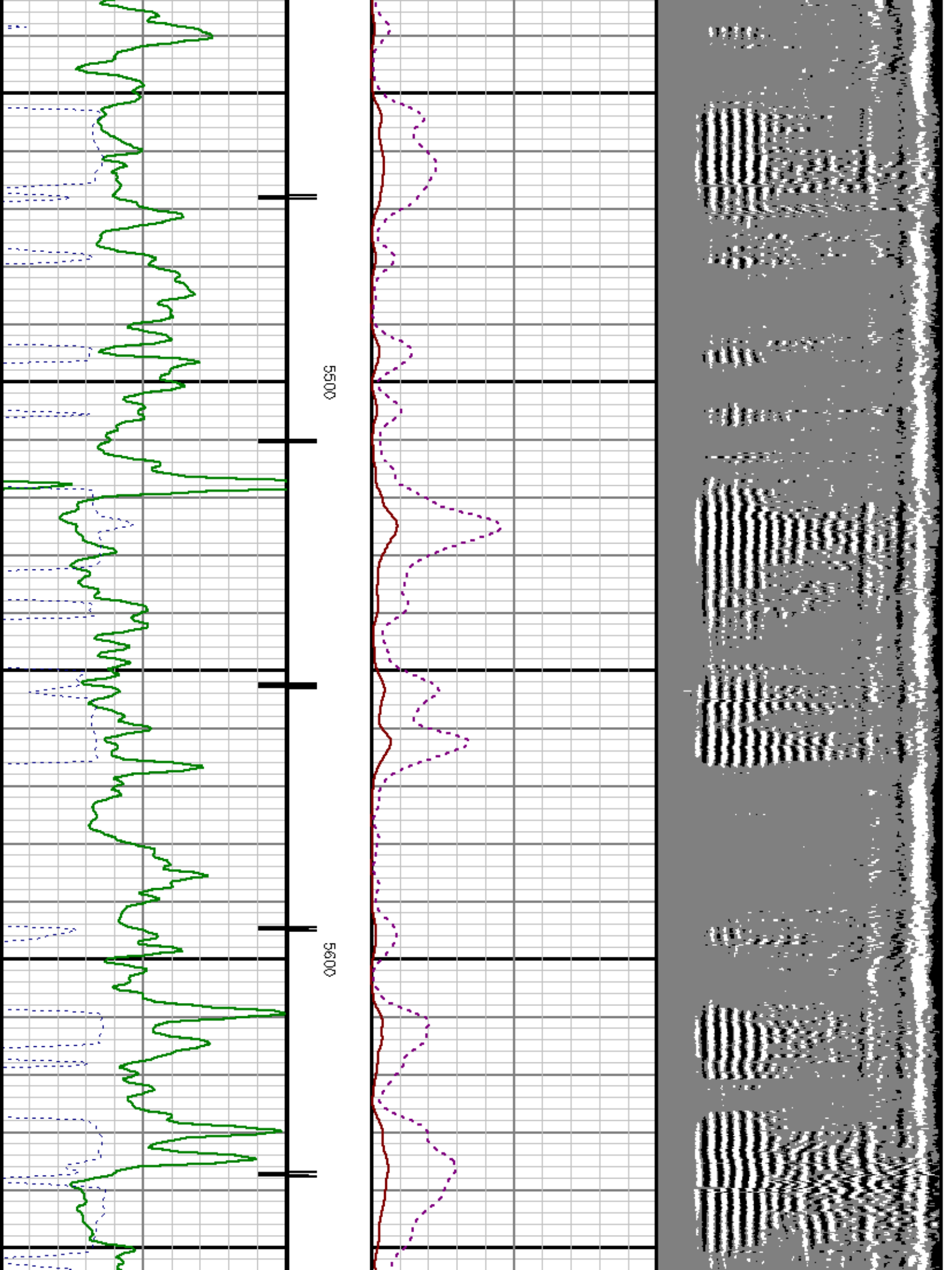


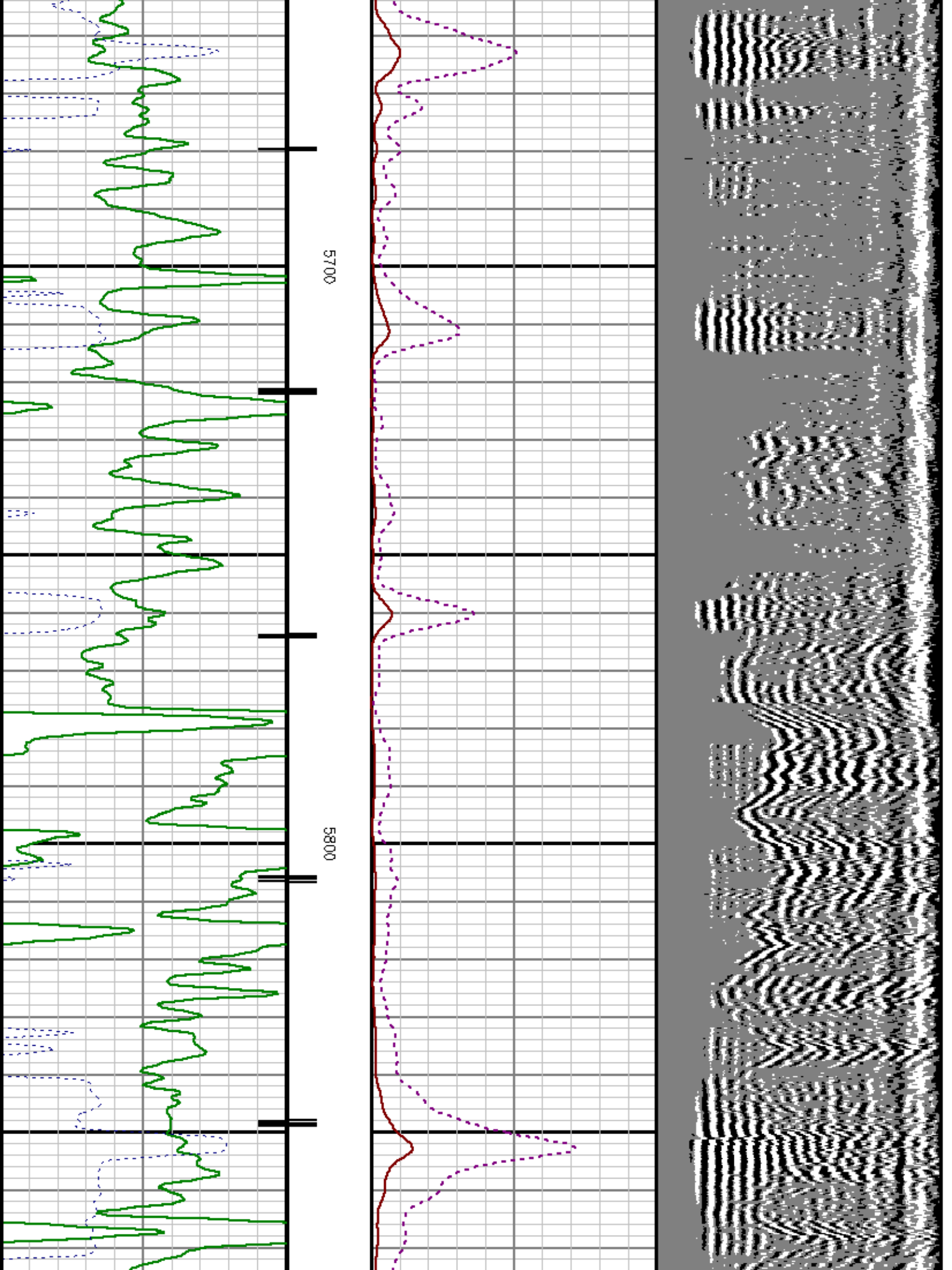


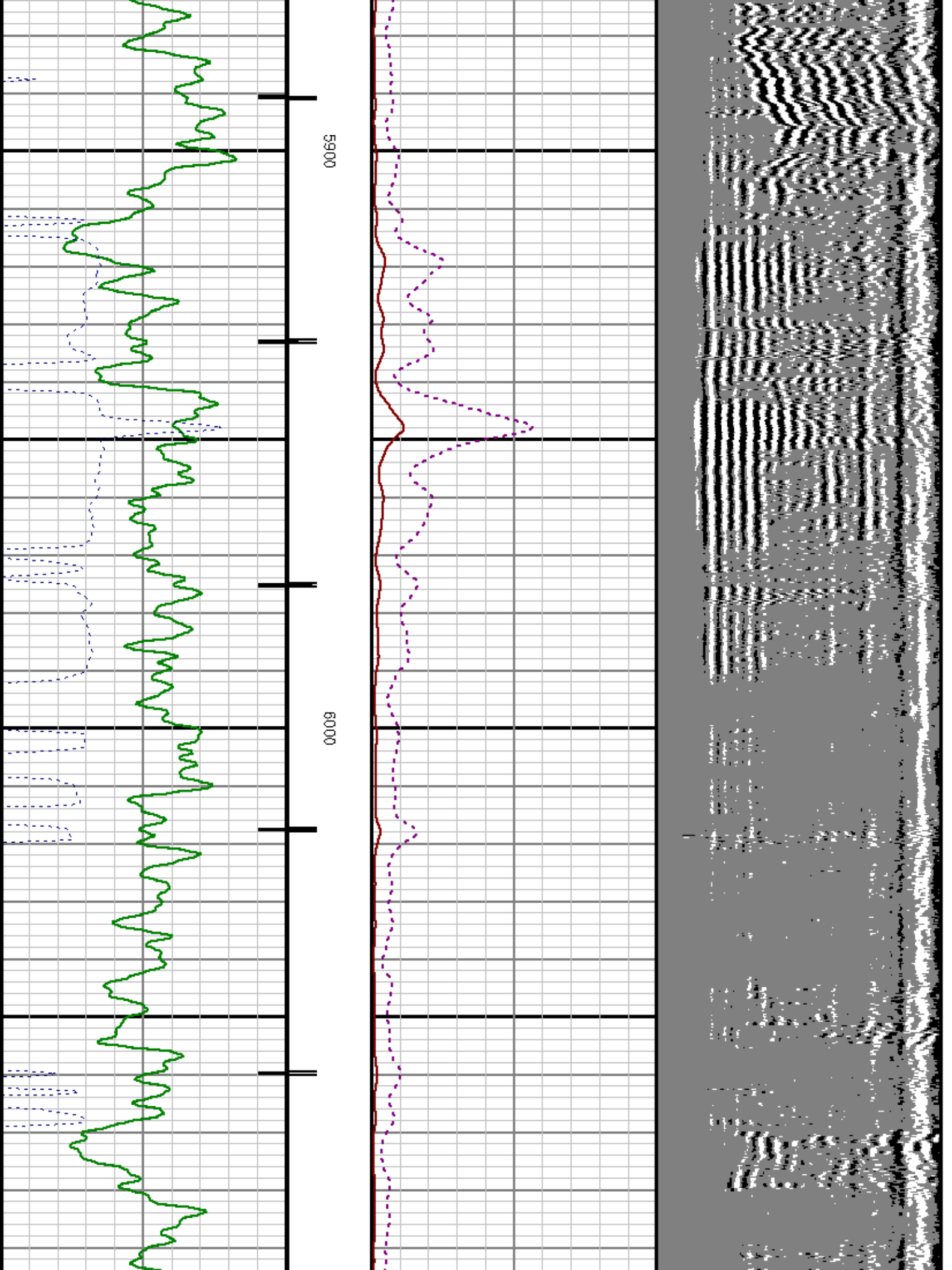


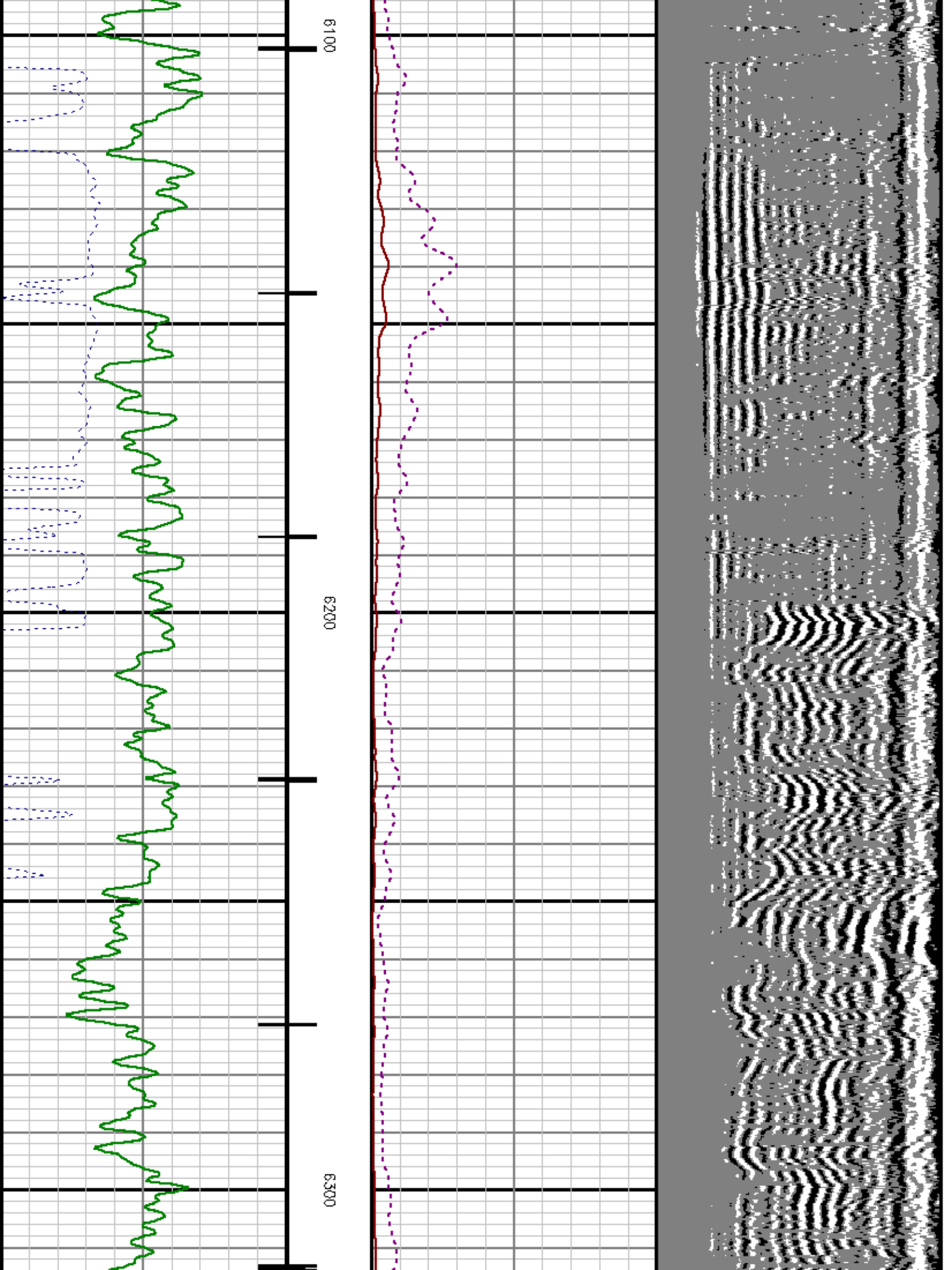


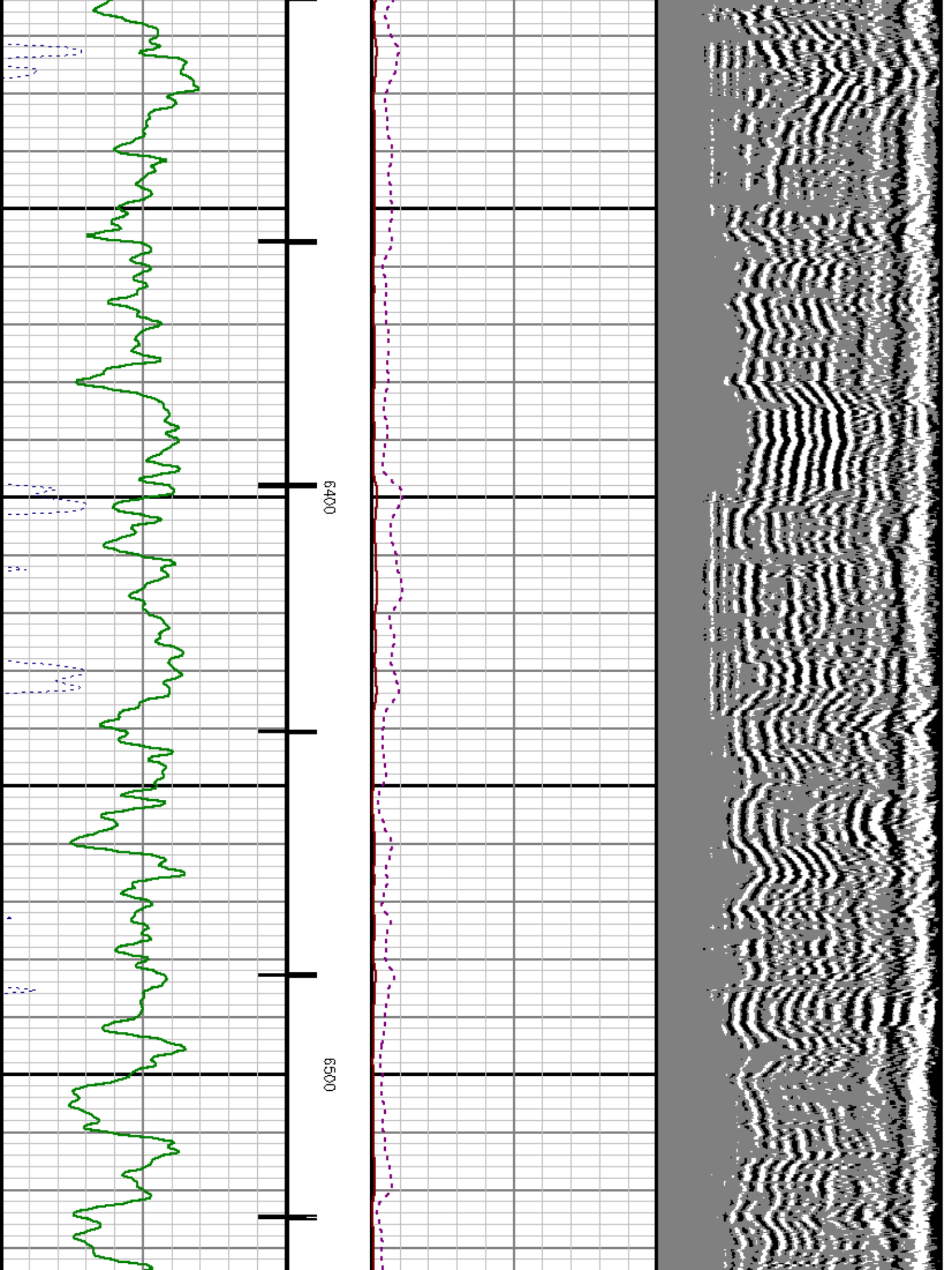


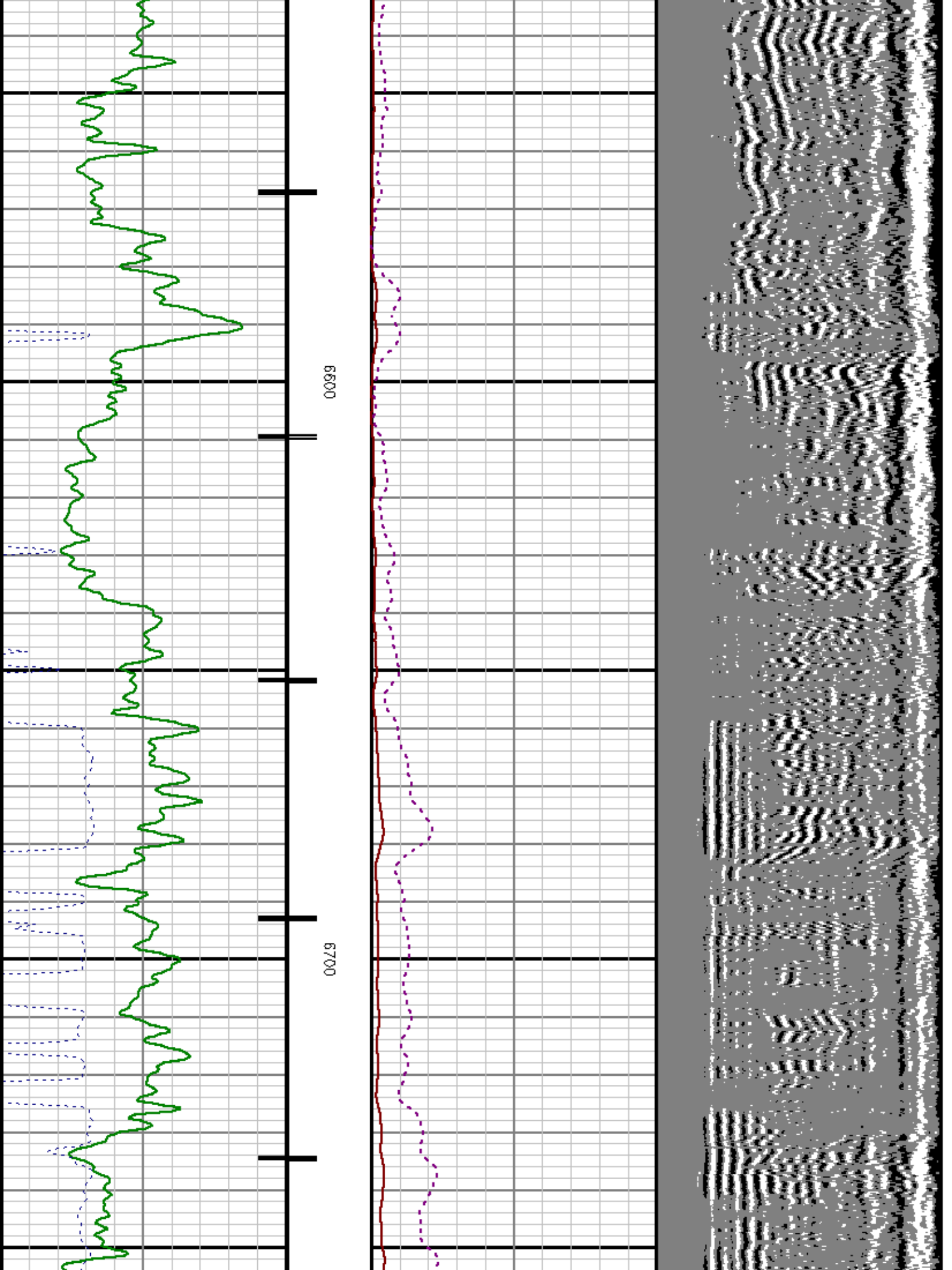


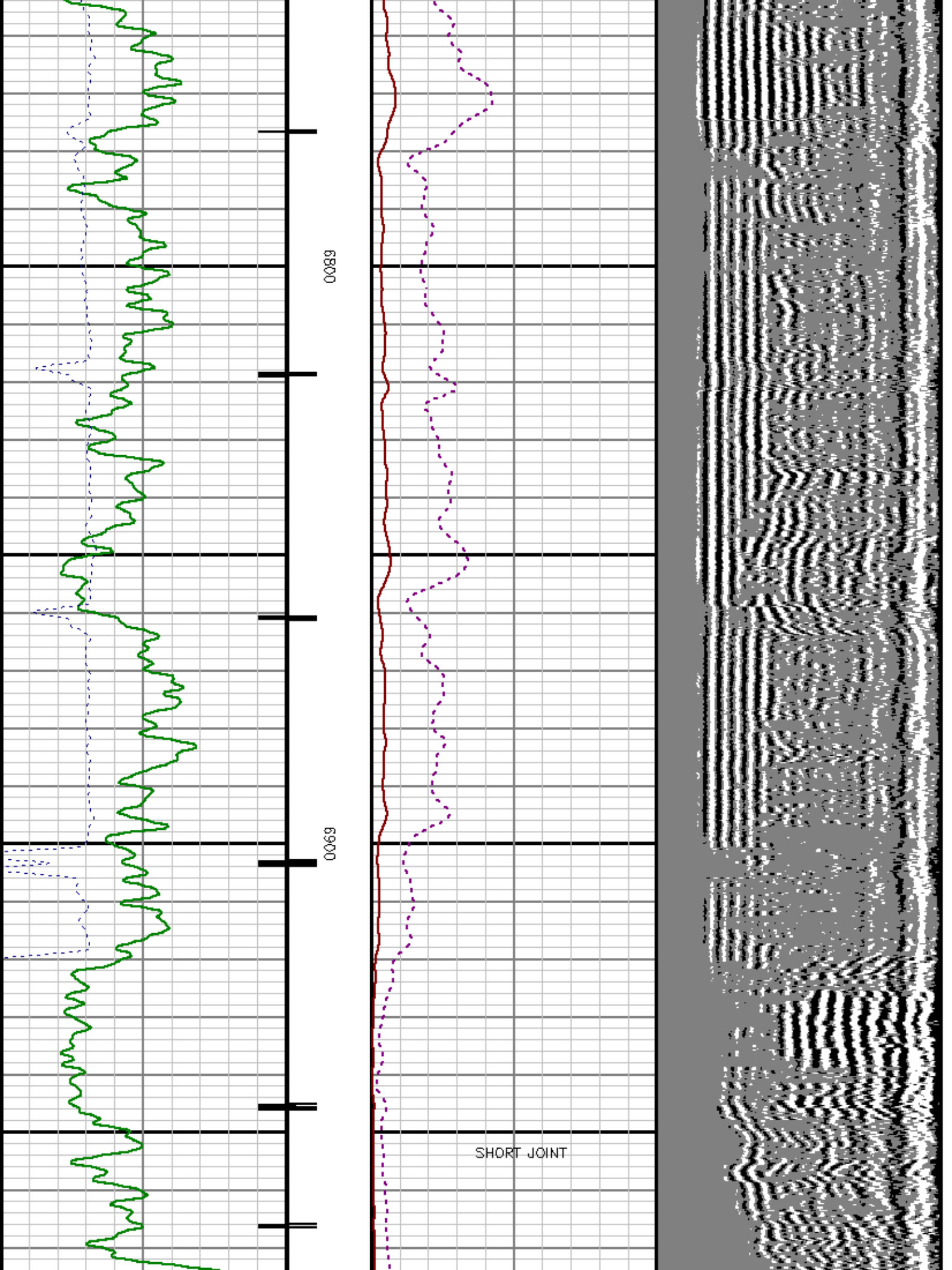


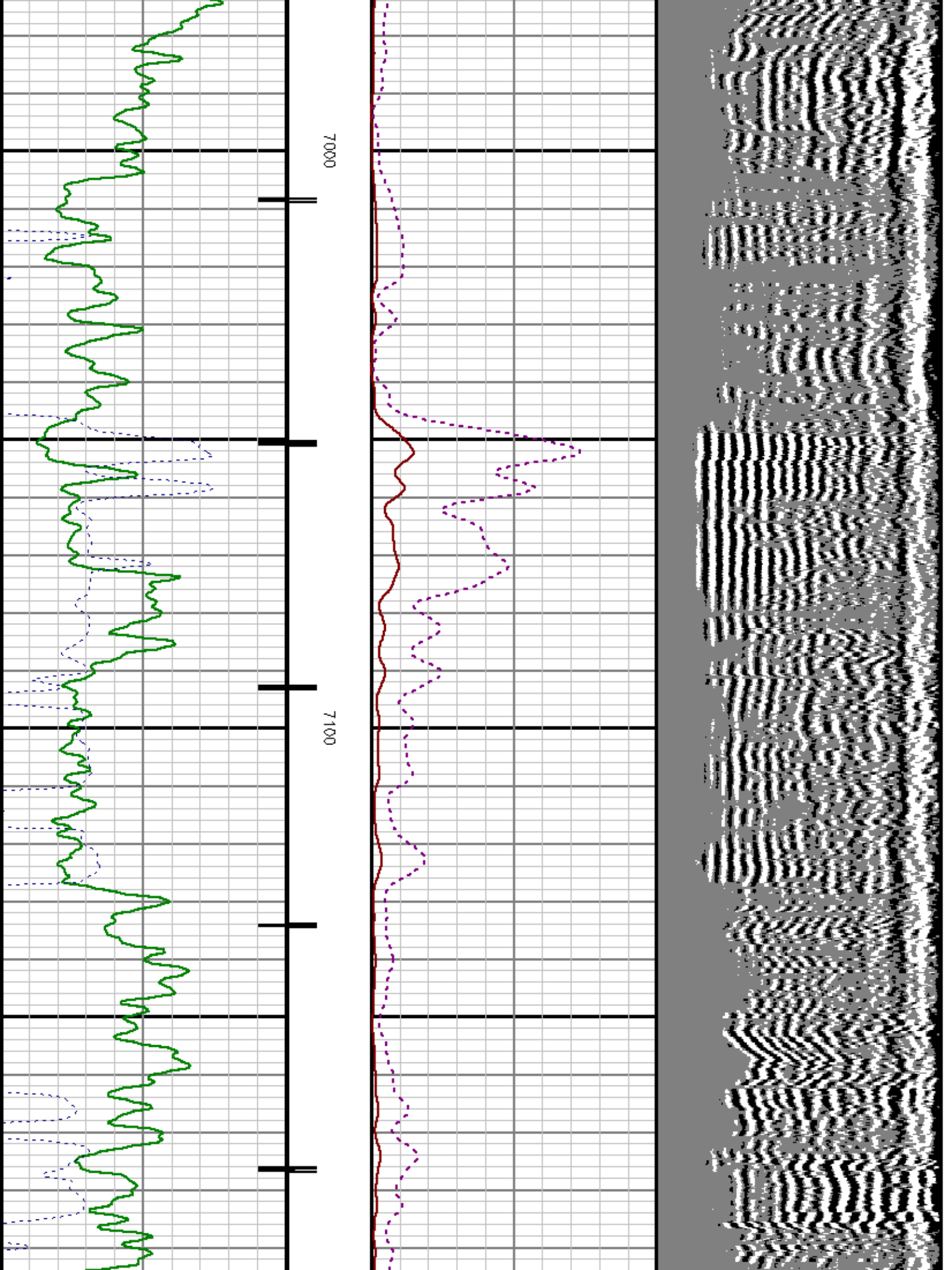


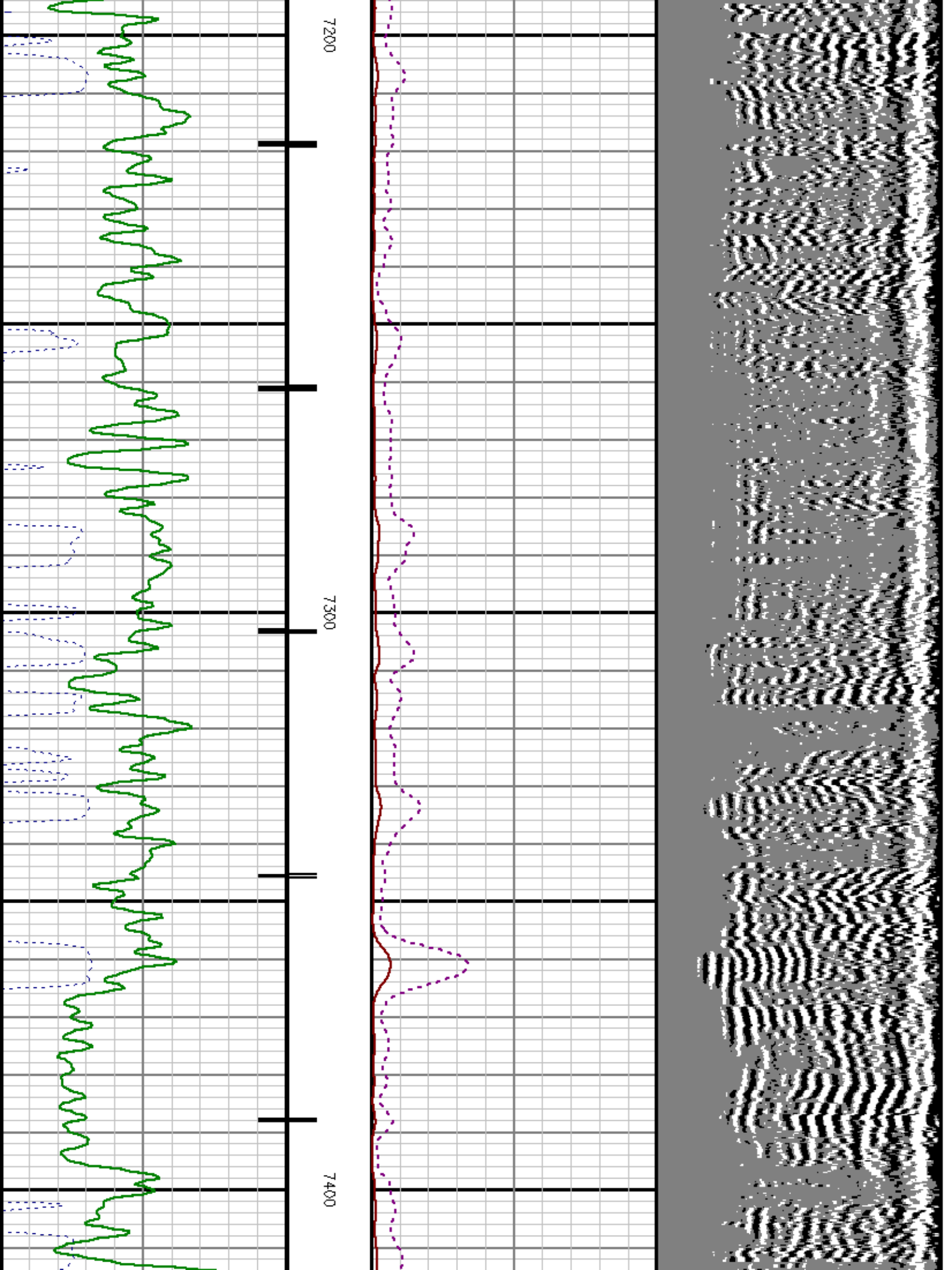


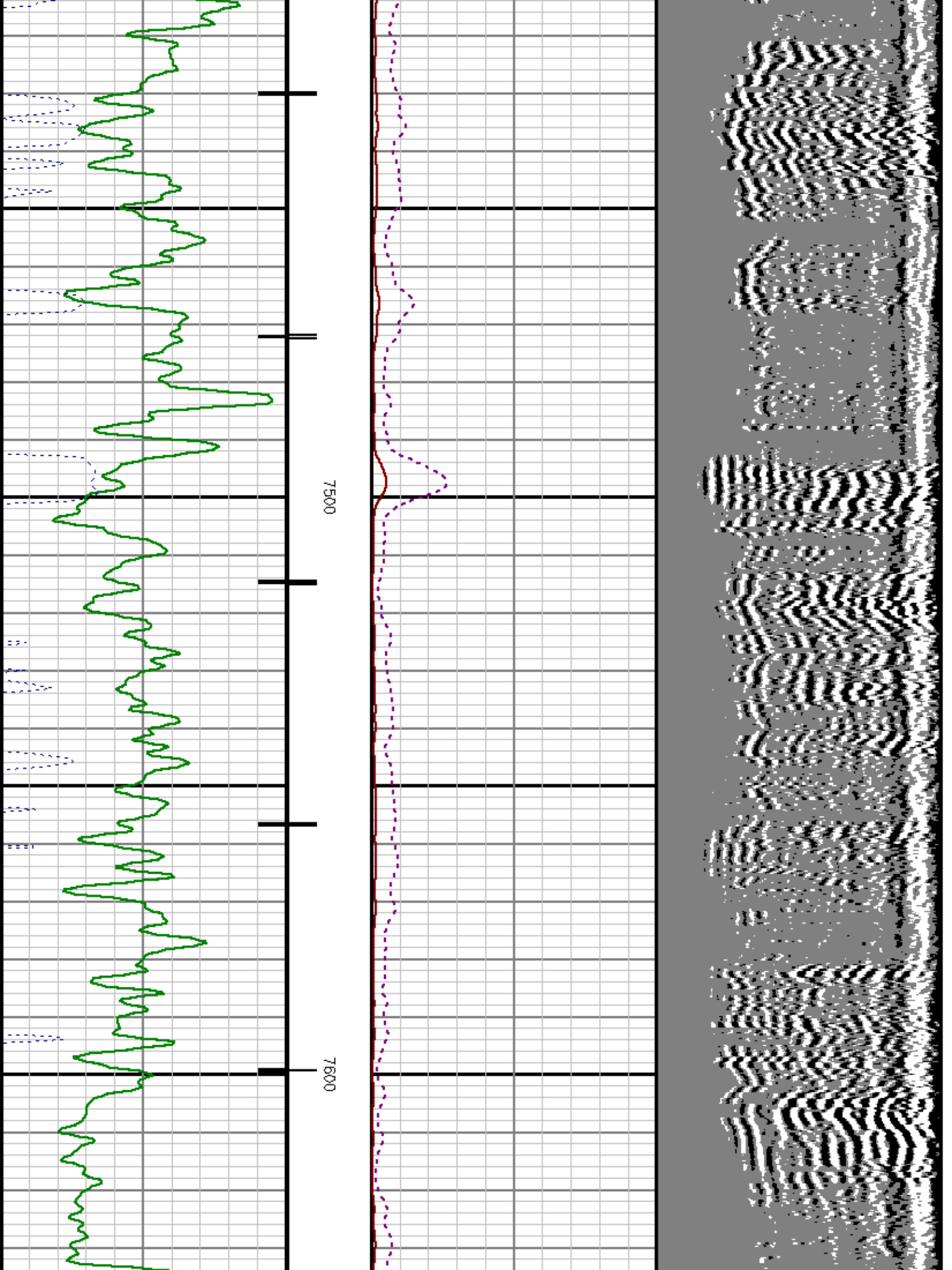


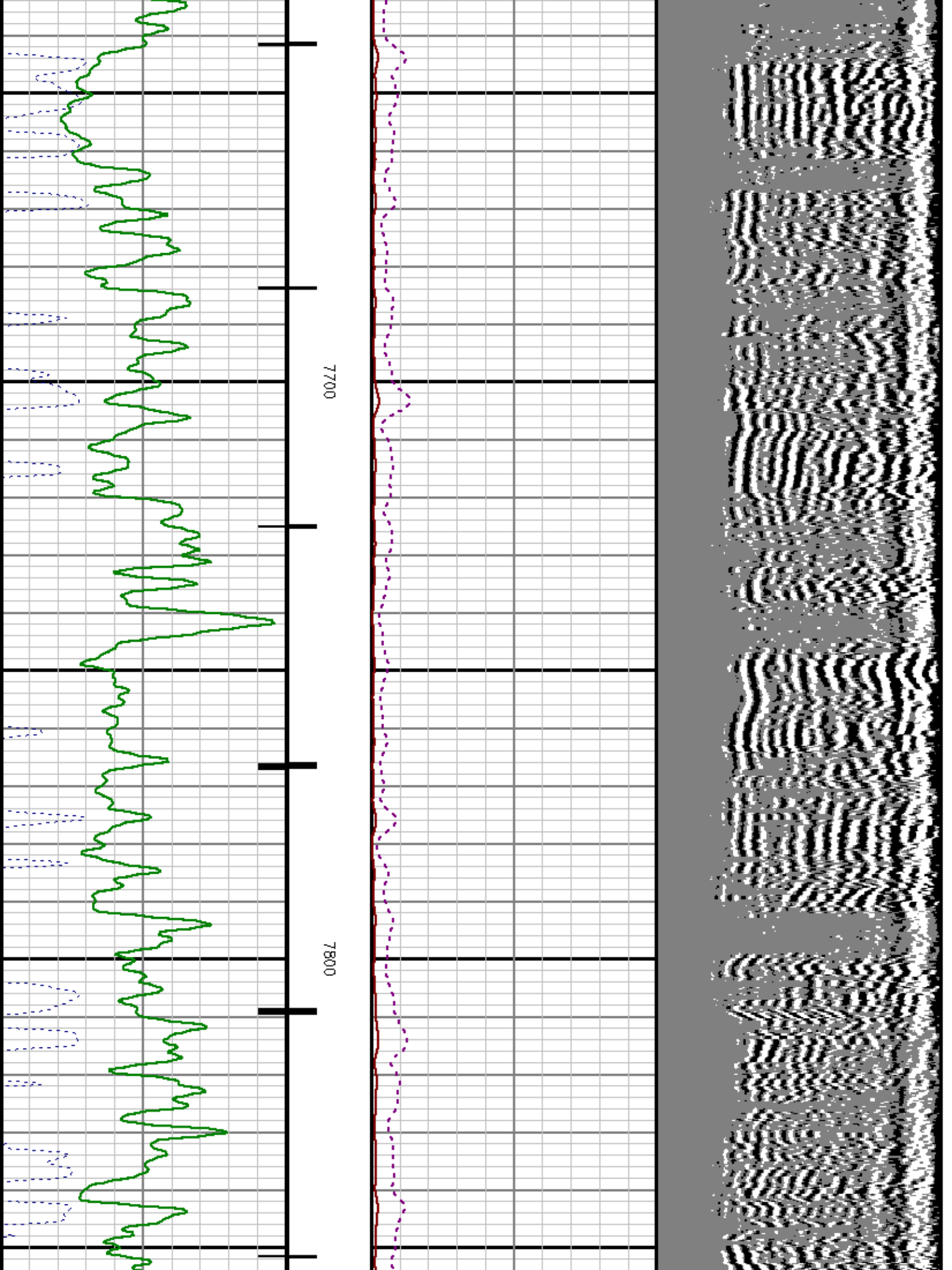


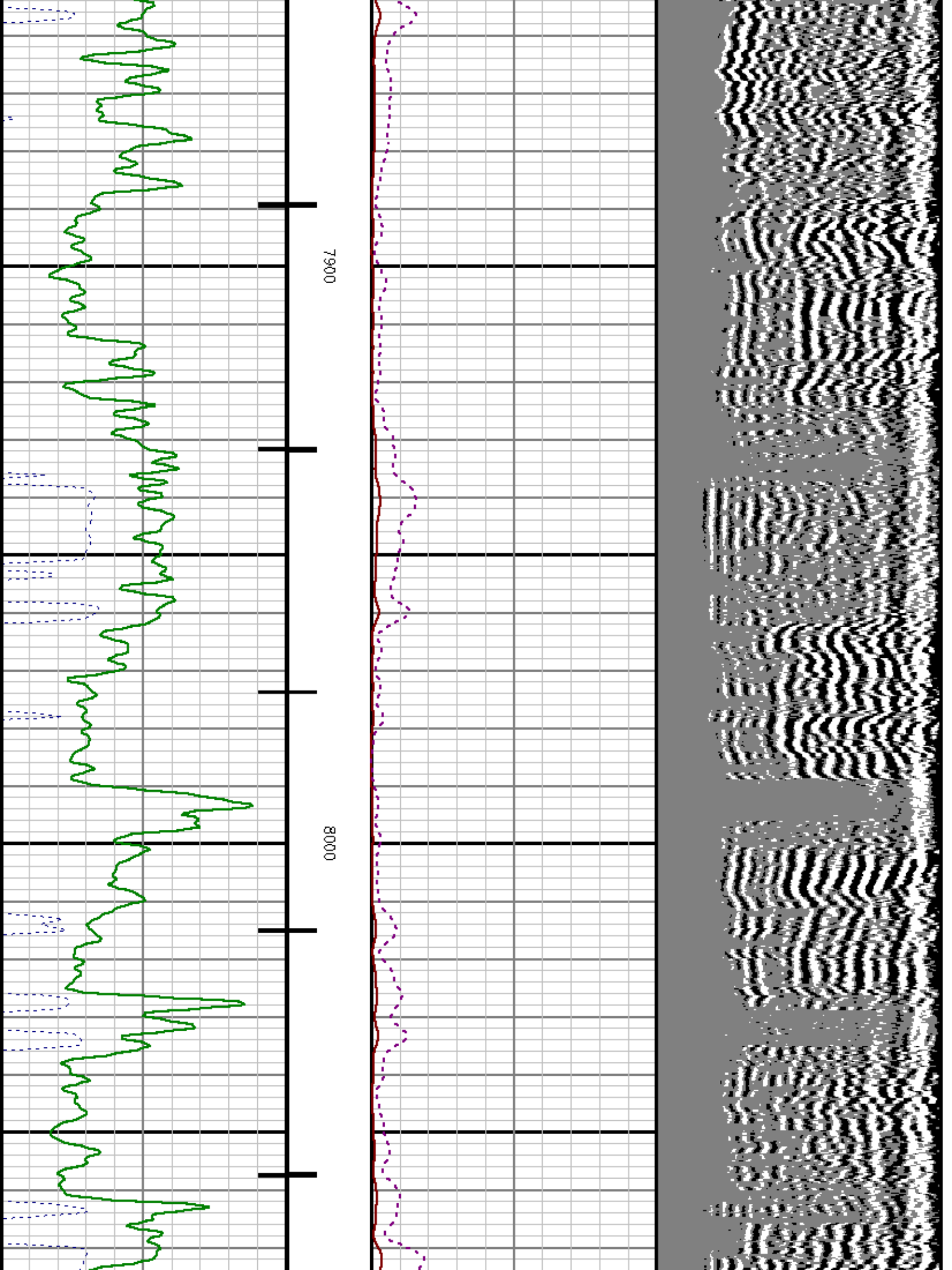


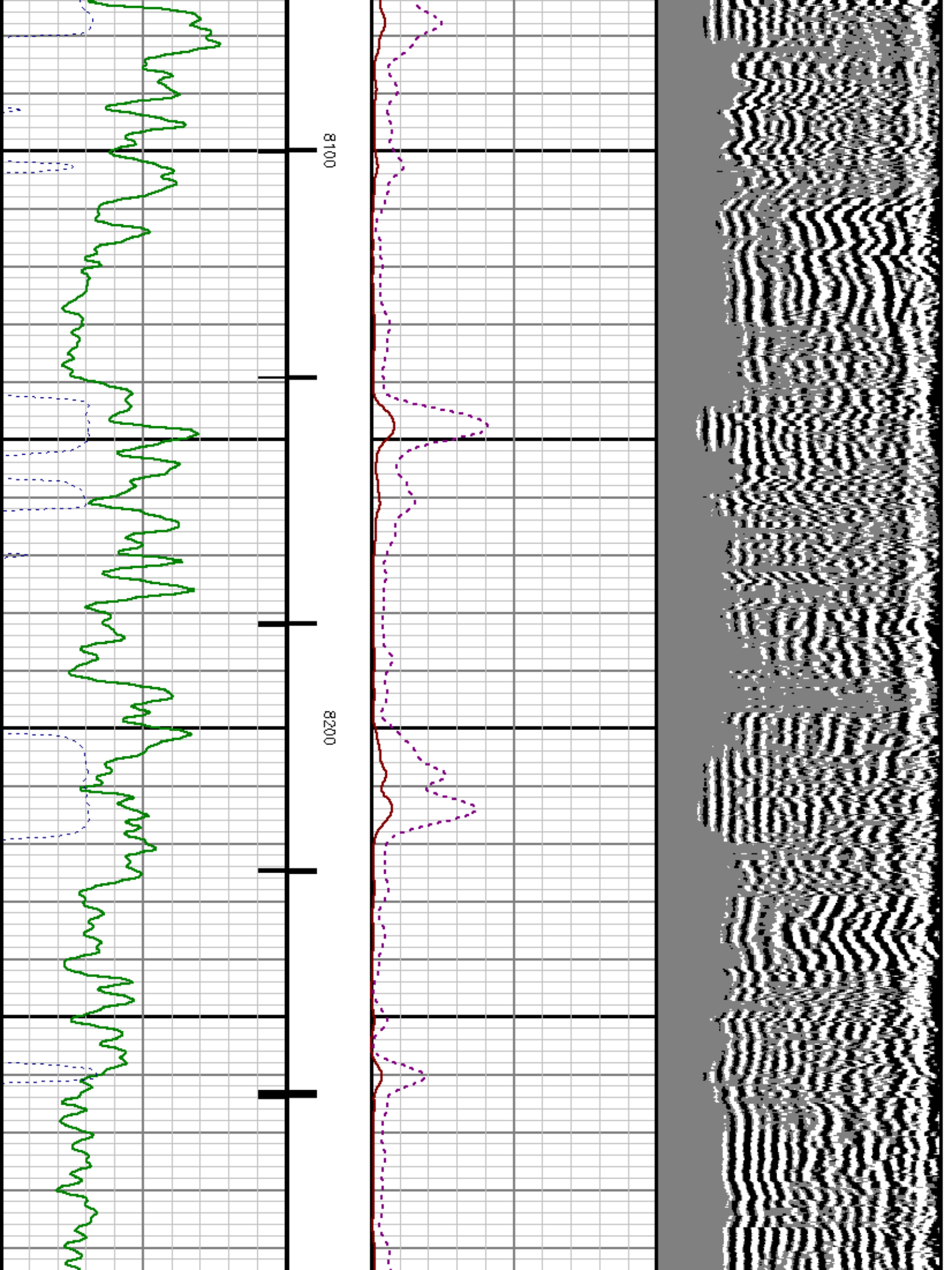


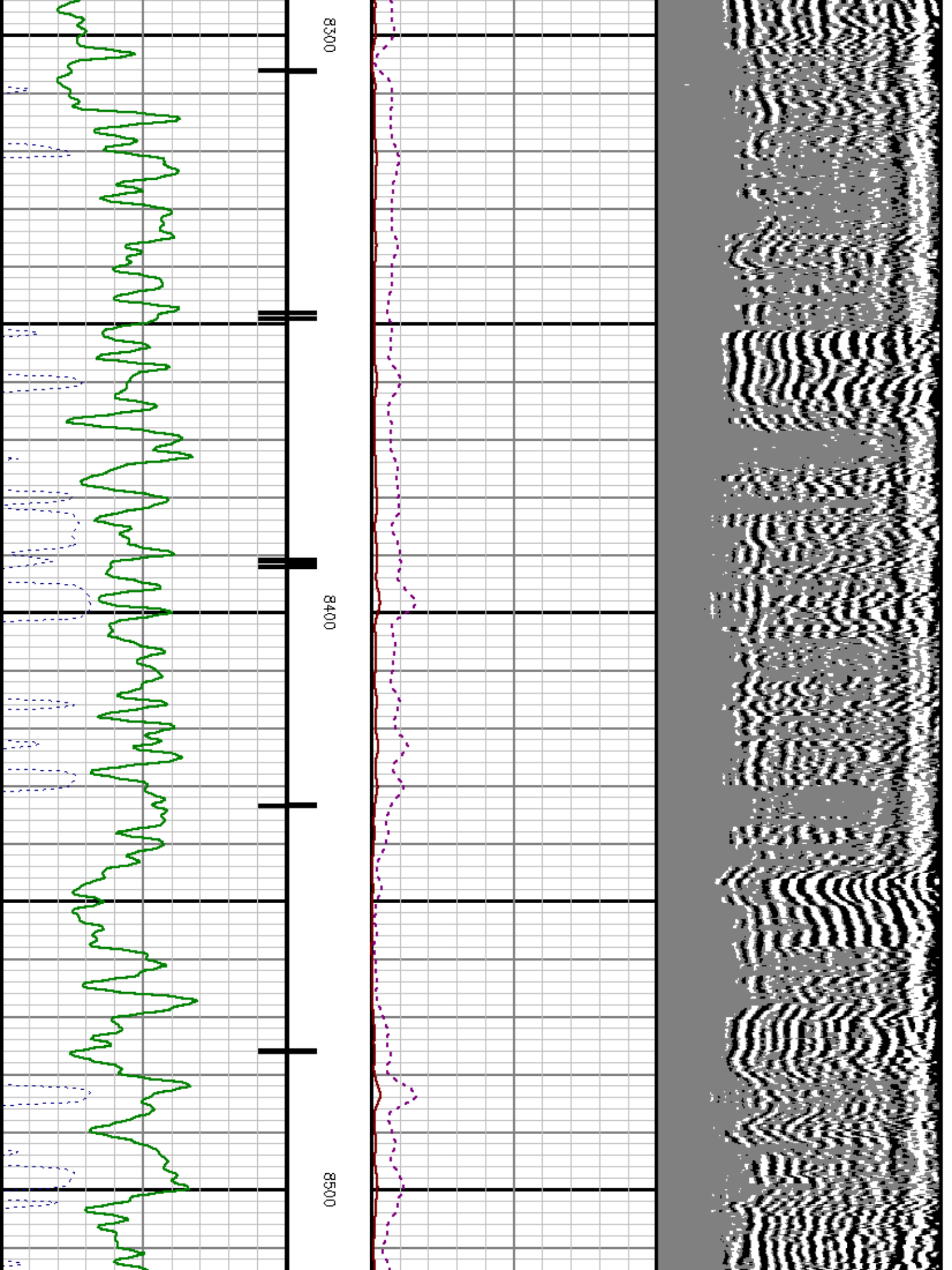


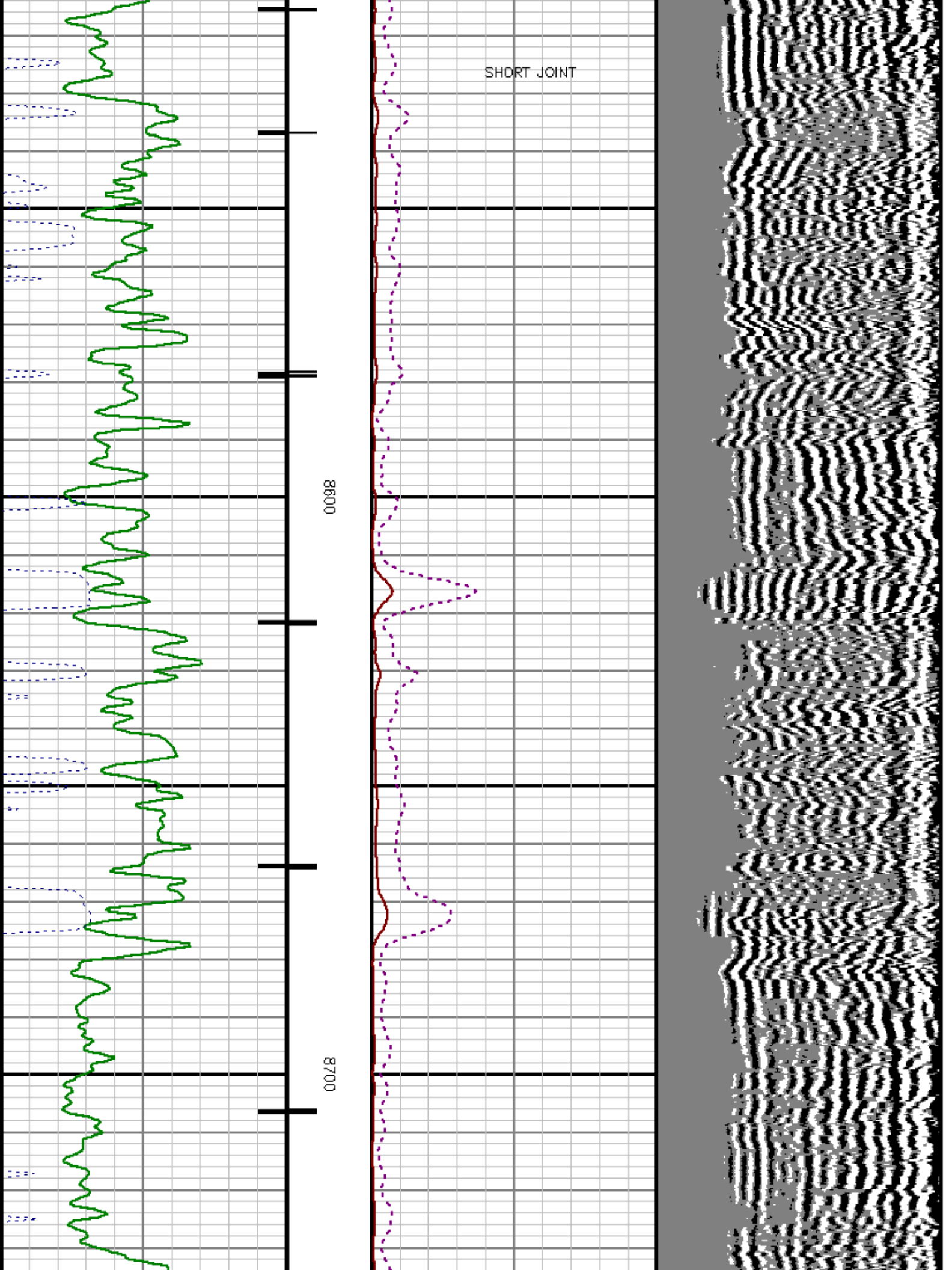


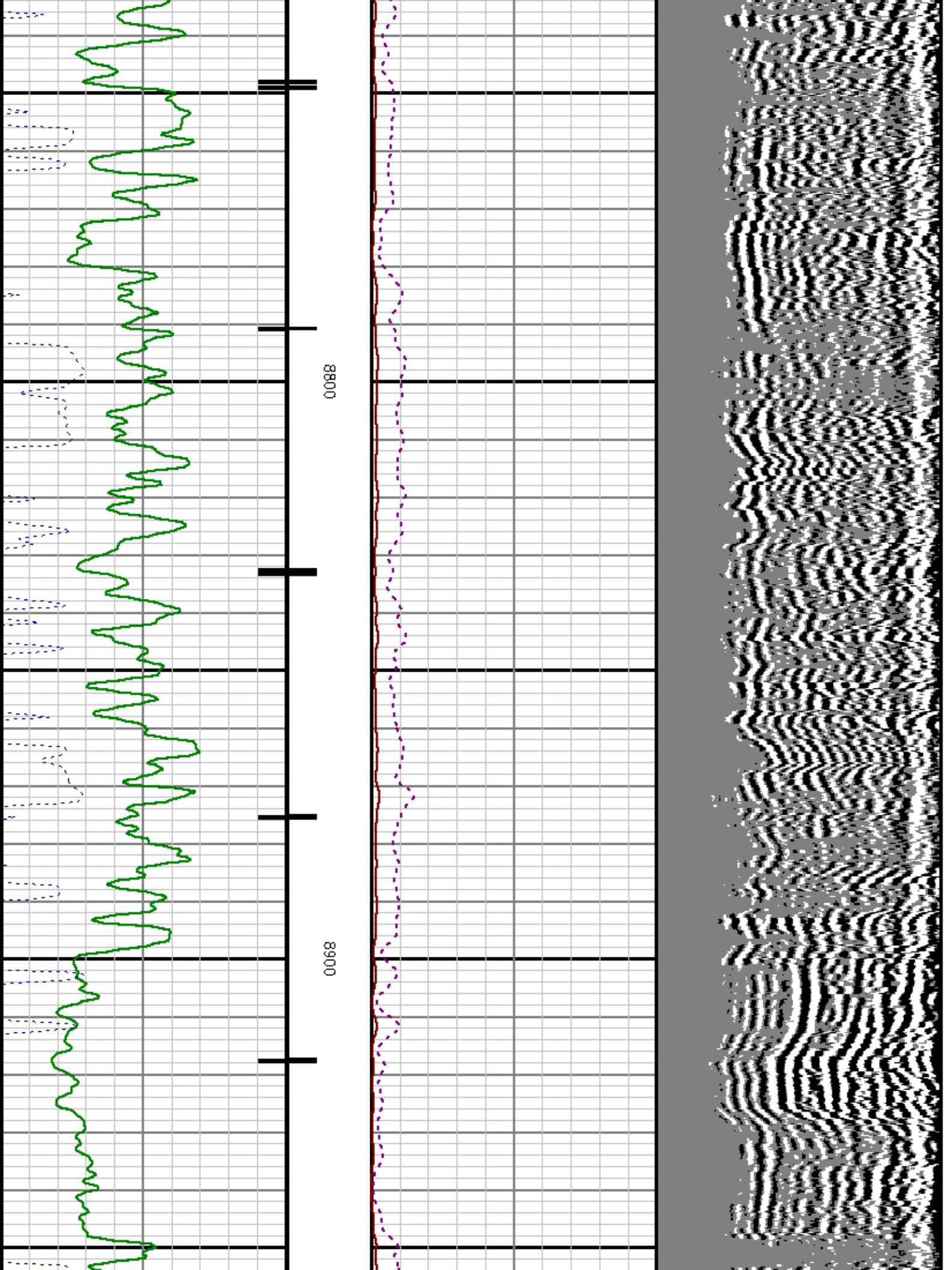


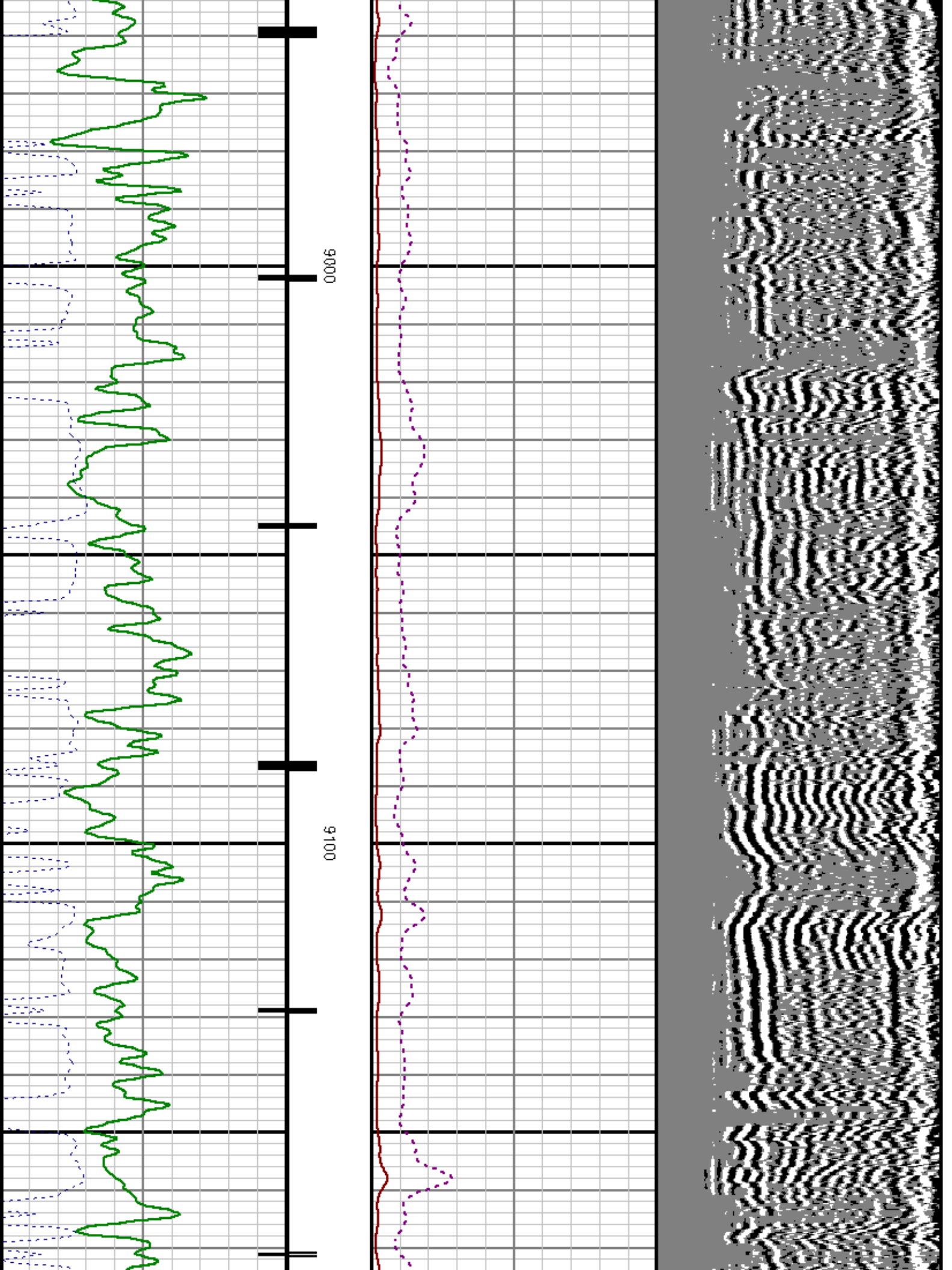


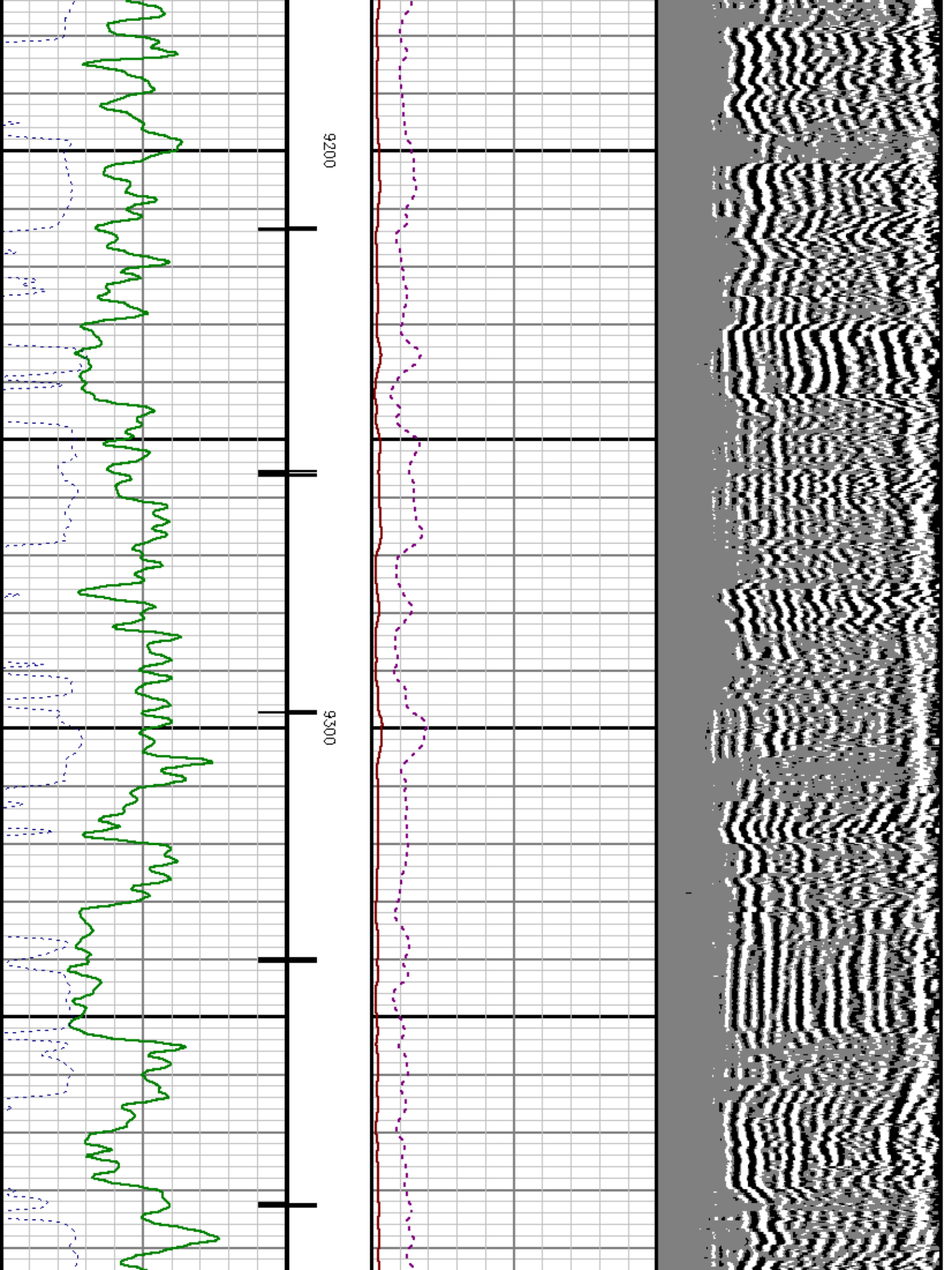


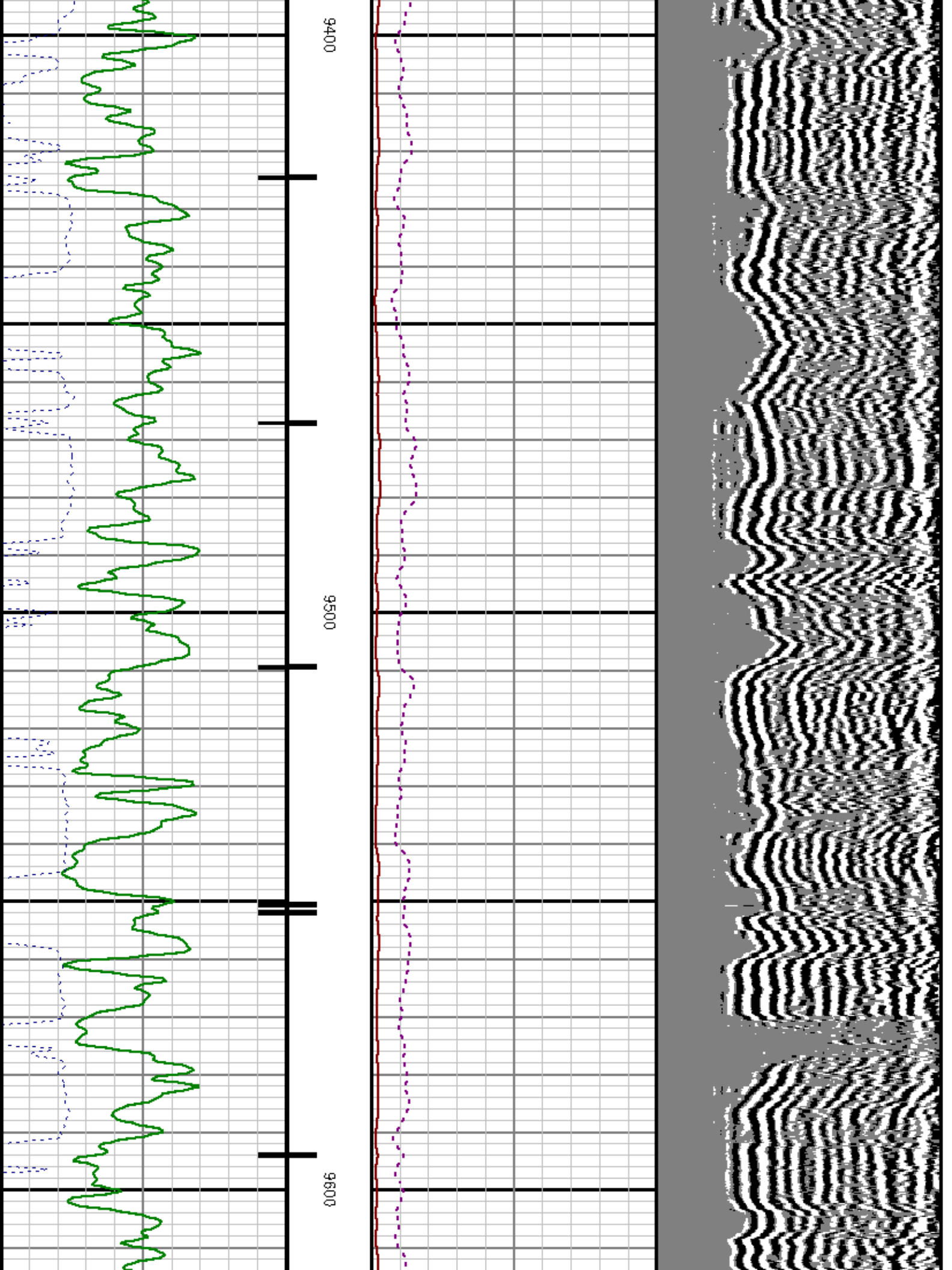


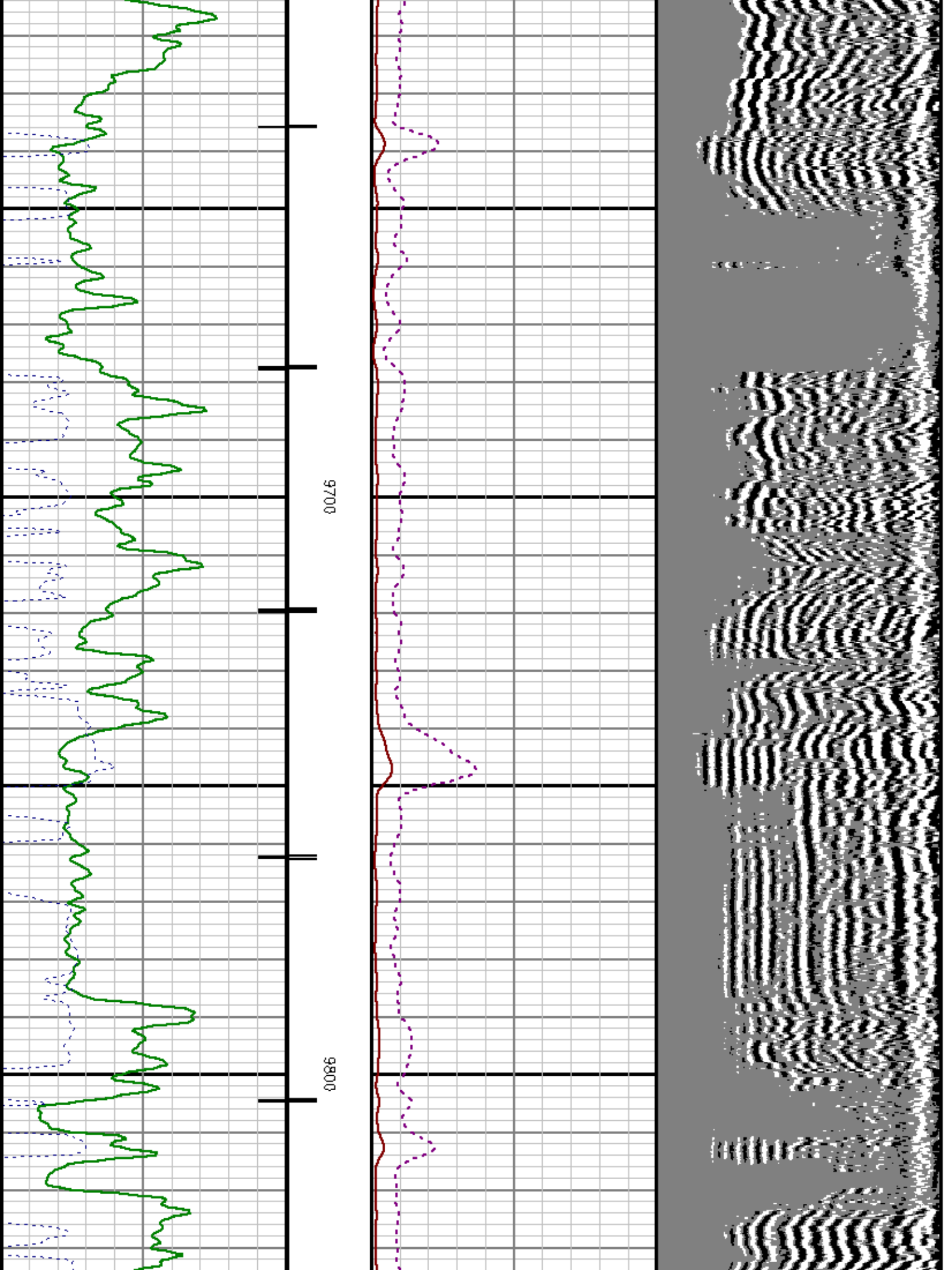


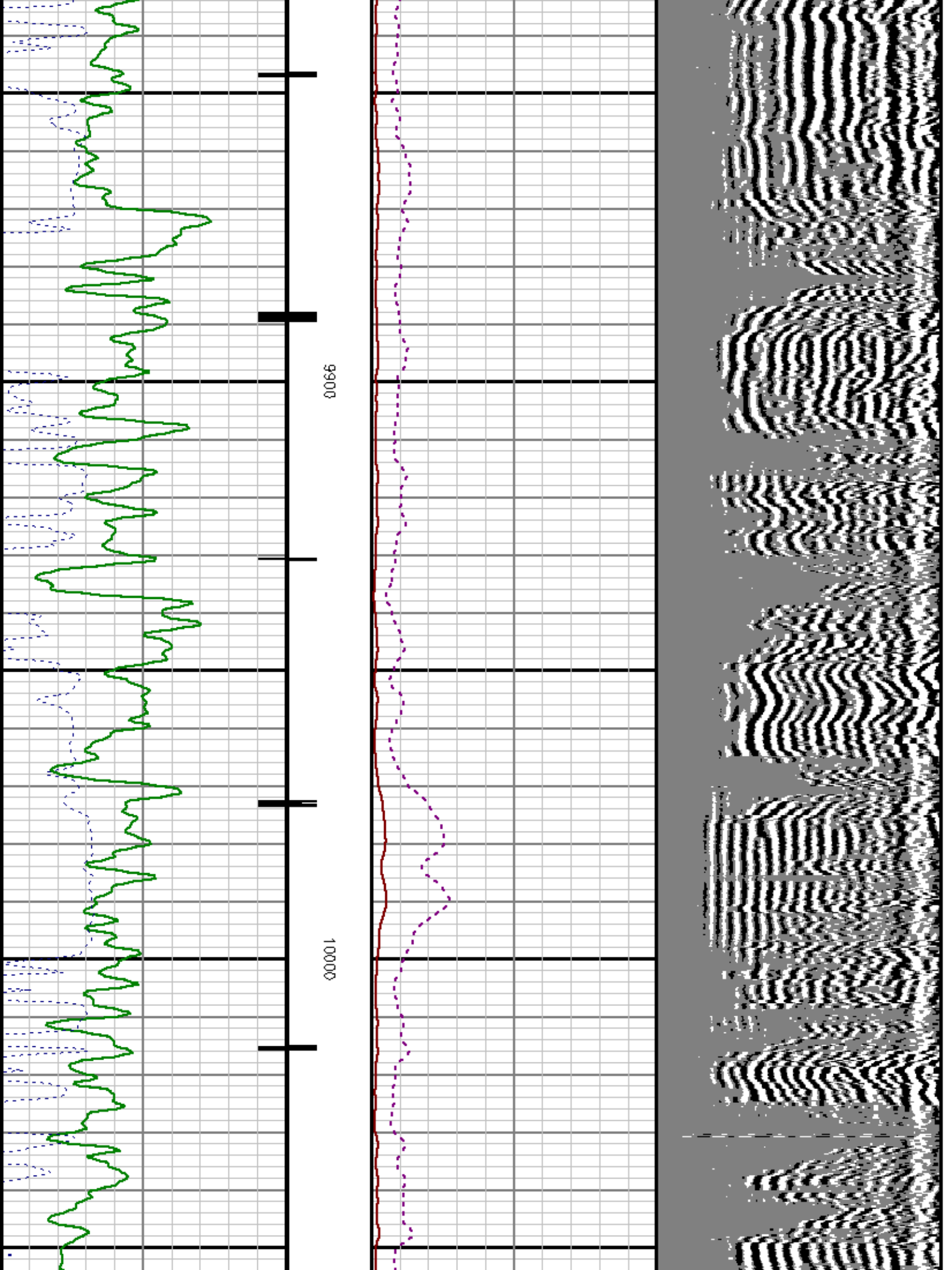


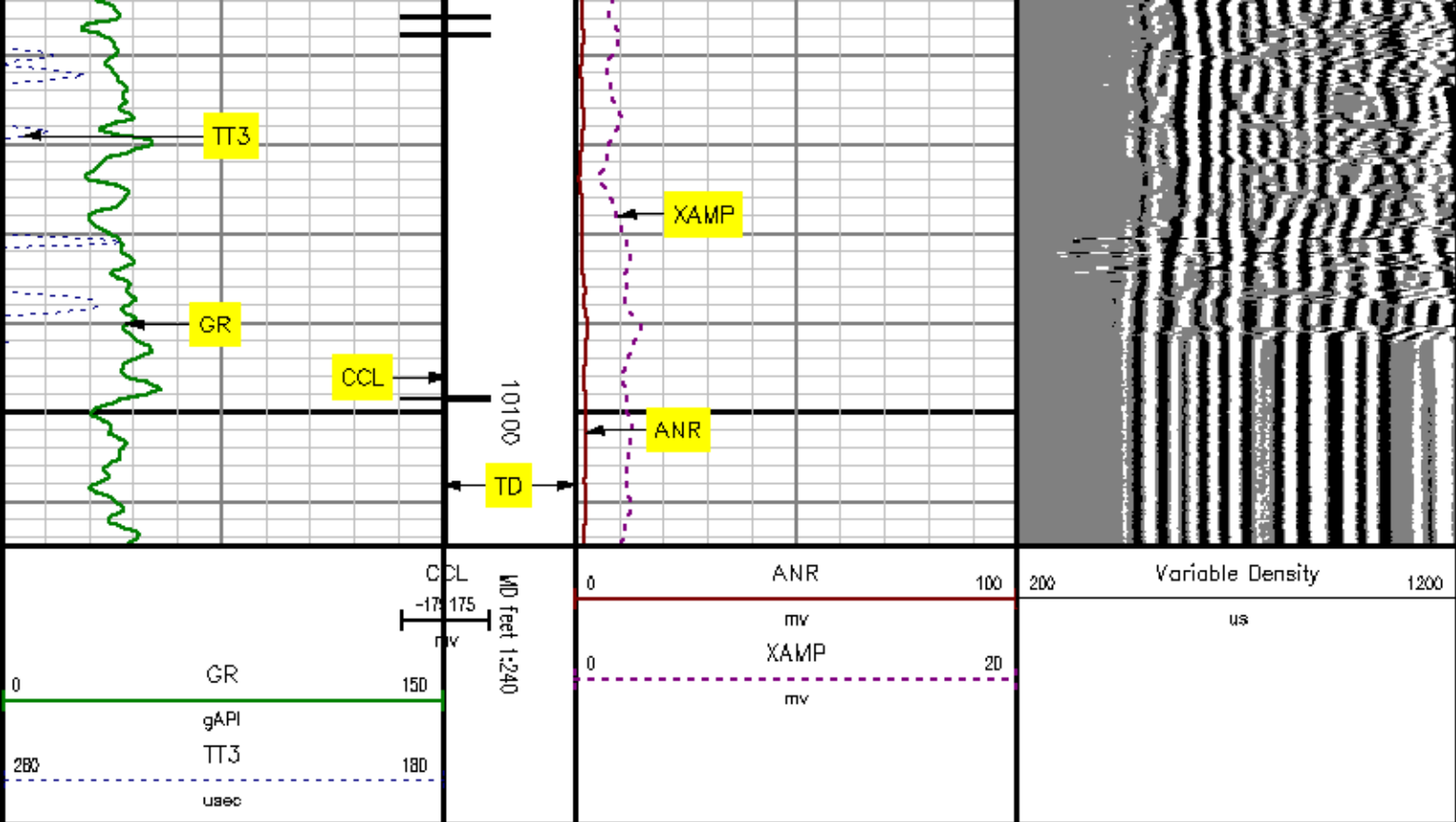












*MAIN SECTION
SECONDARY PRESENTATION
WITH 1000 PSI*

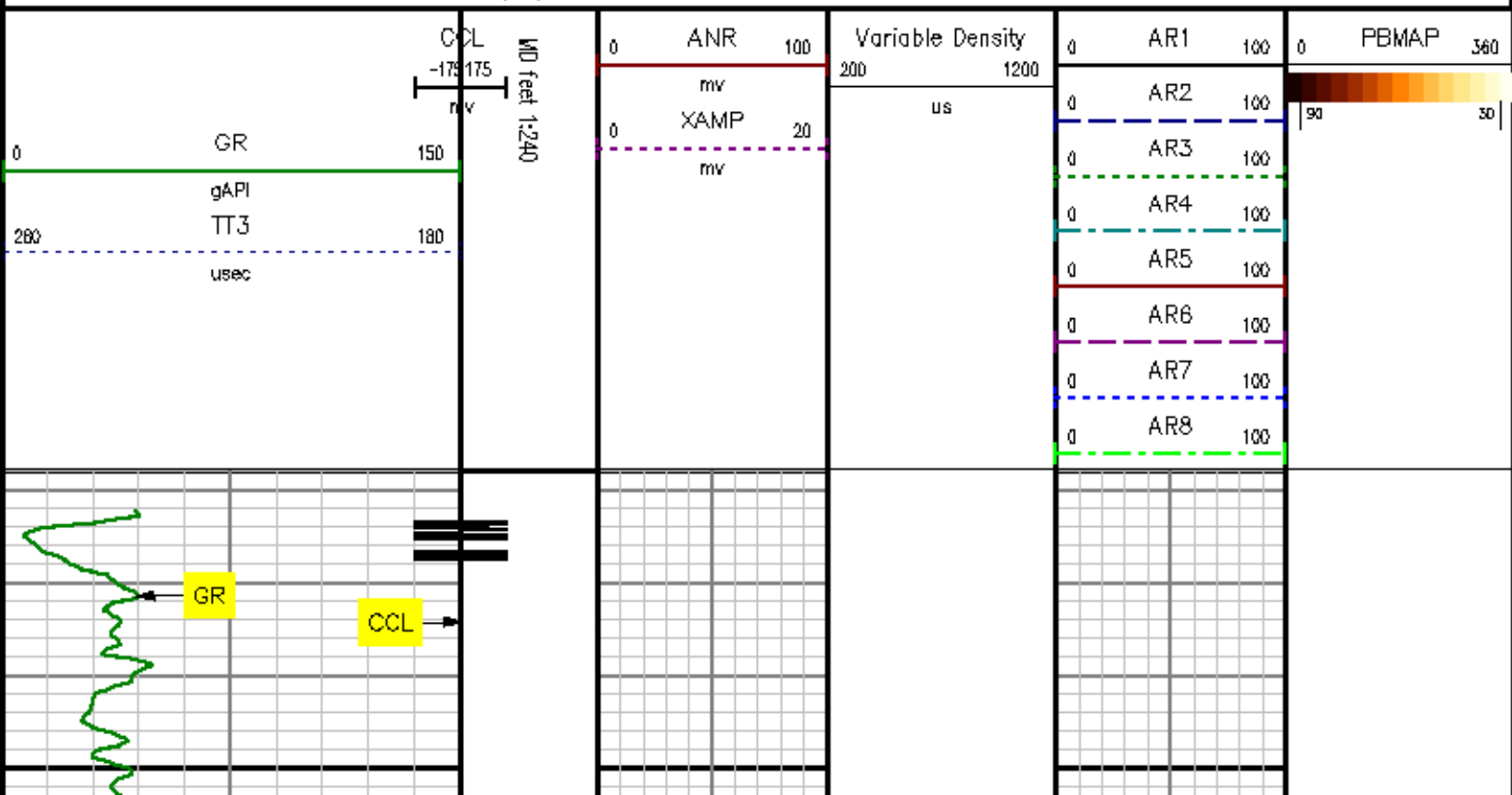
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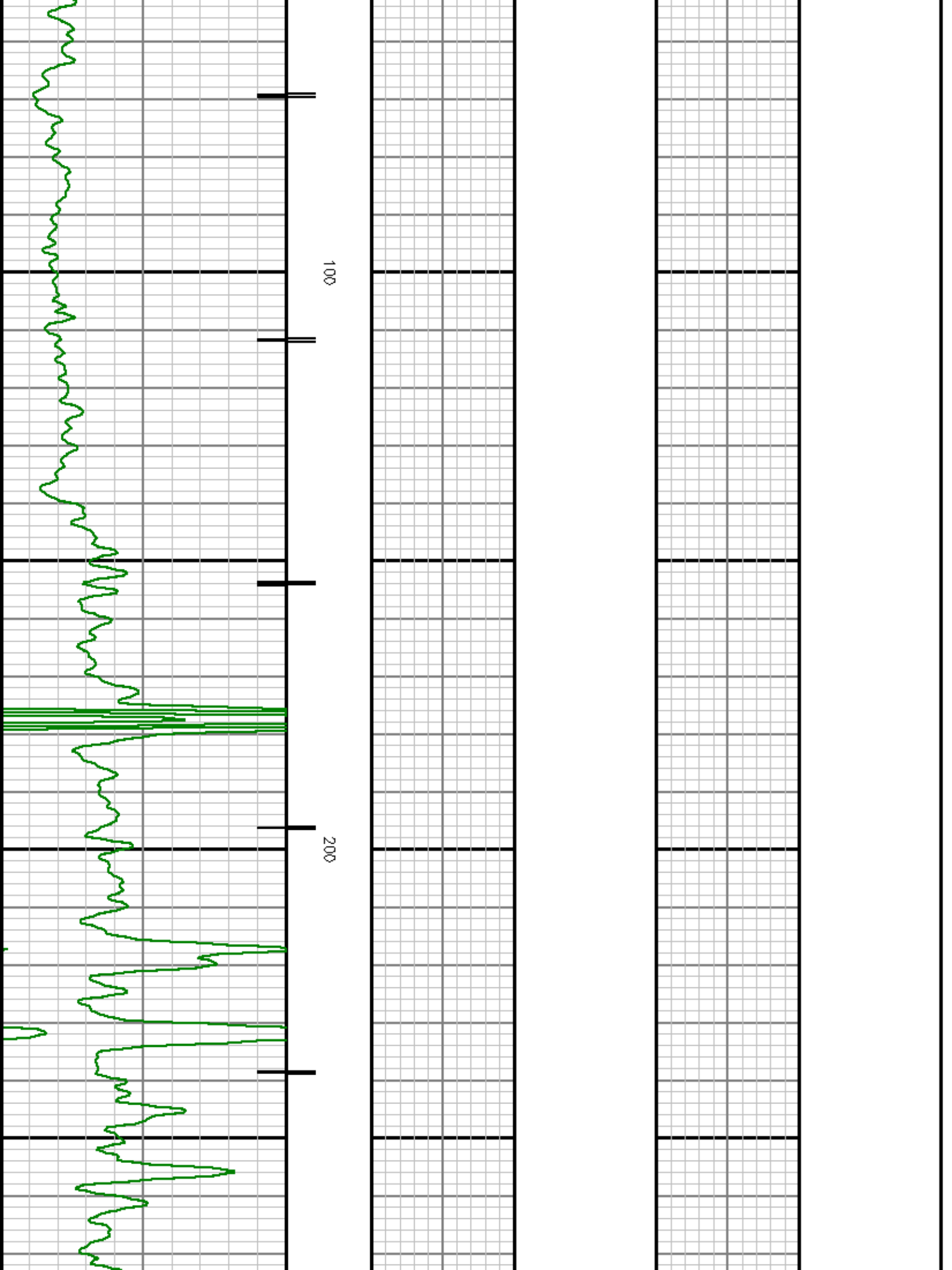
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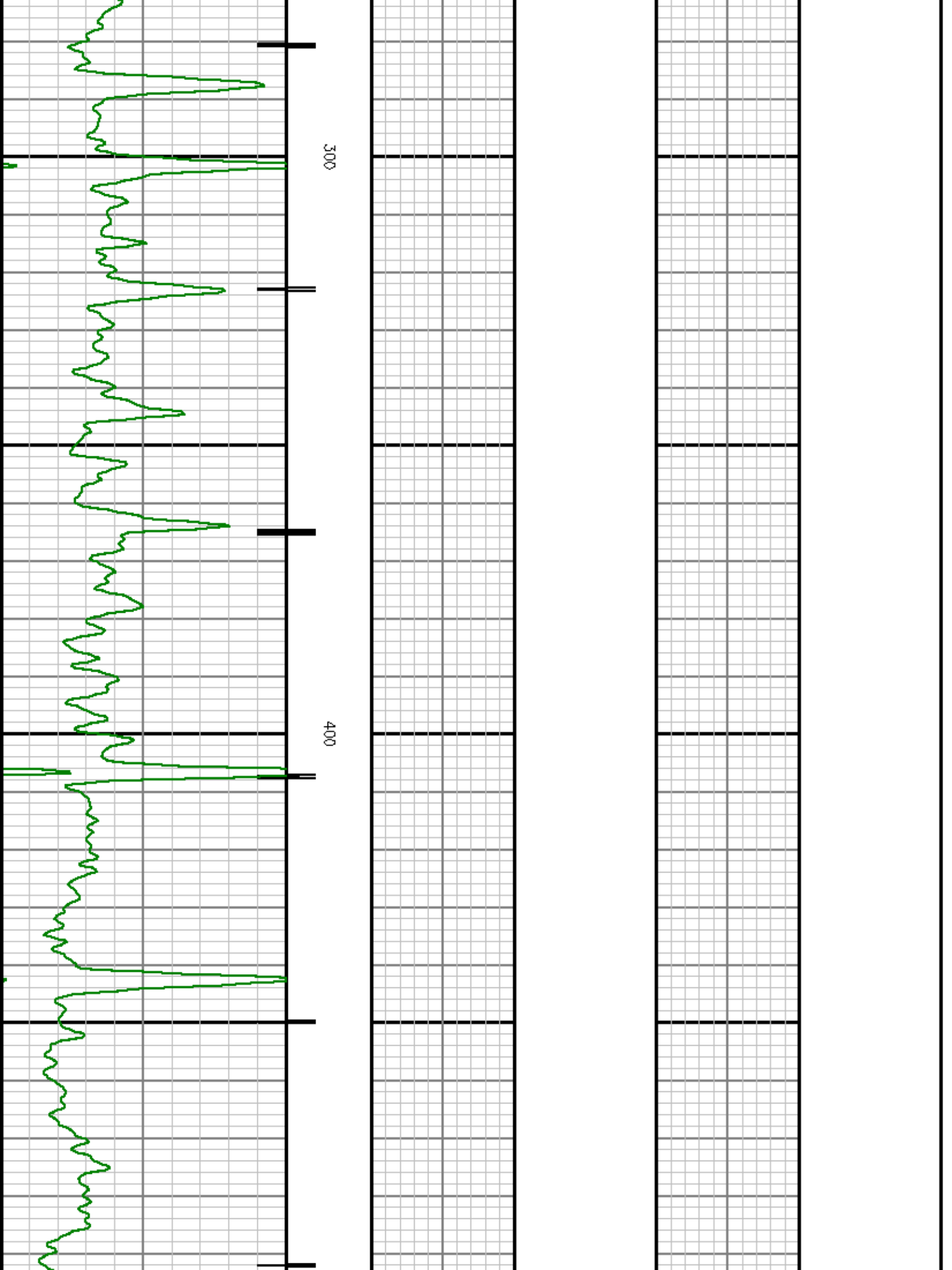
DEPTH OFFSETS (for Acquired Curves)

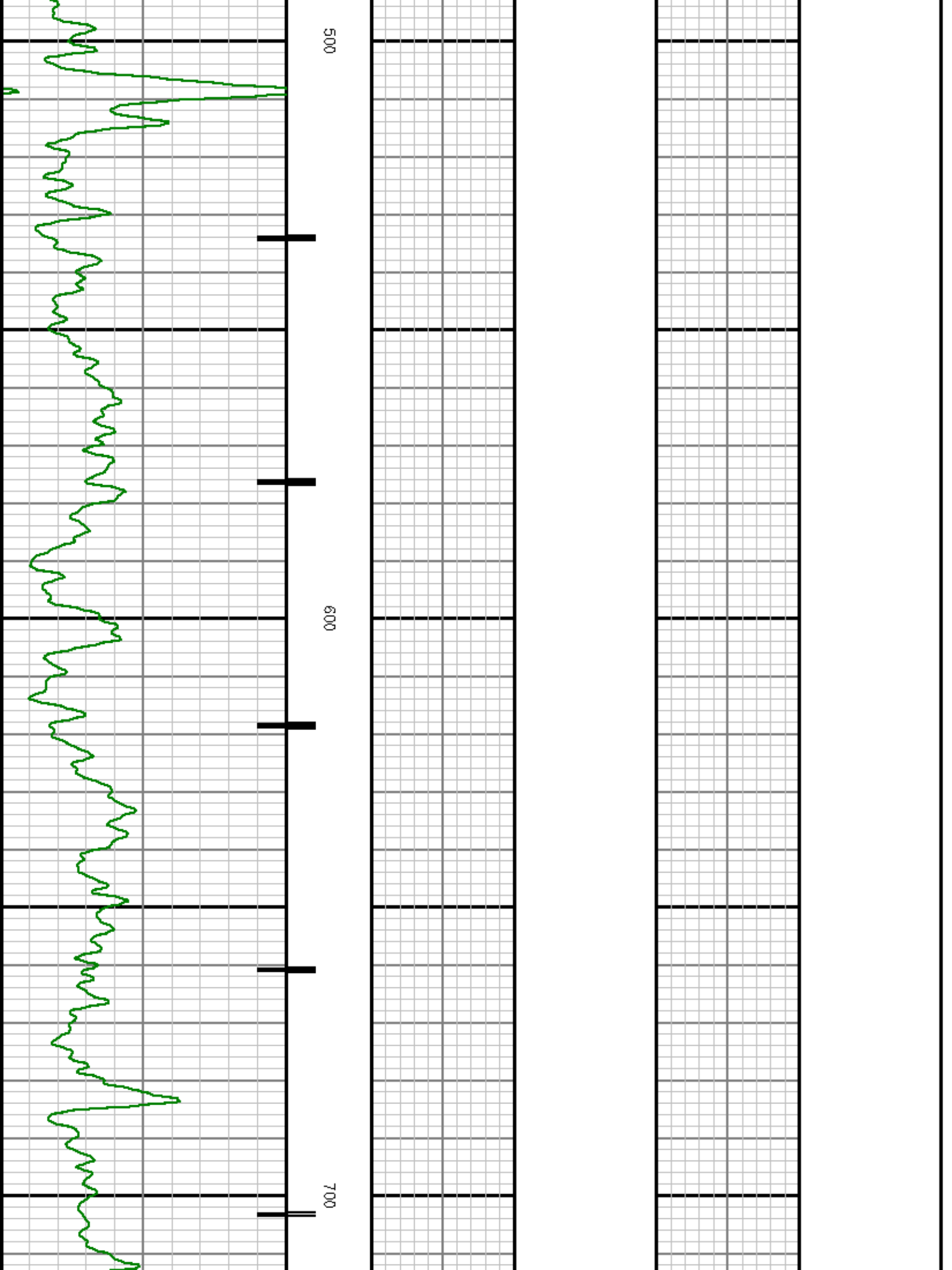
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		FPR3	FPR5	TT3	TTR1	TTR2	TTR3
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1426XA	-14.360	AFAR	SIG	TT5			
1426XA	-7.250	CCL					
1426XA	-5.390	GR					
1426XA	0.000	NEU					

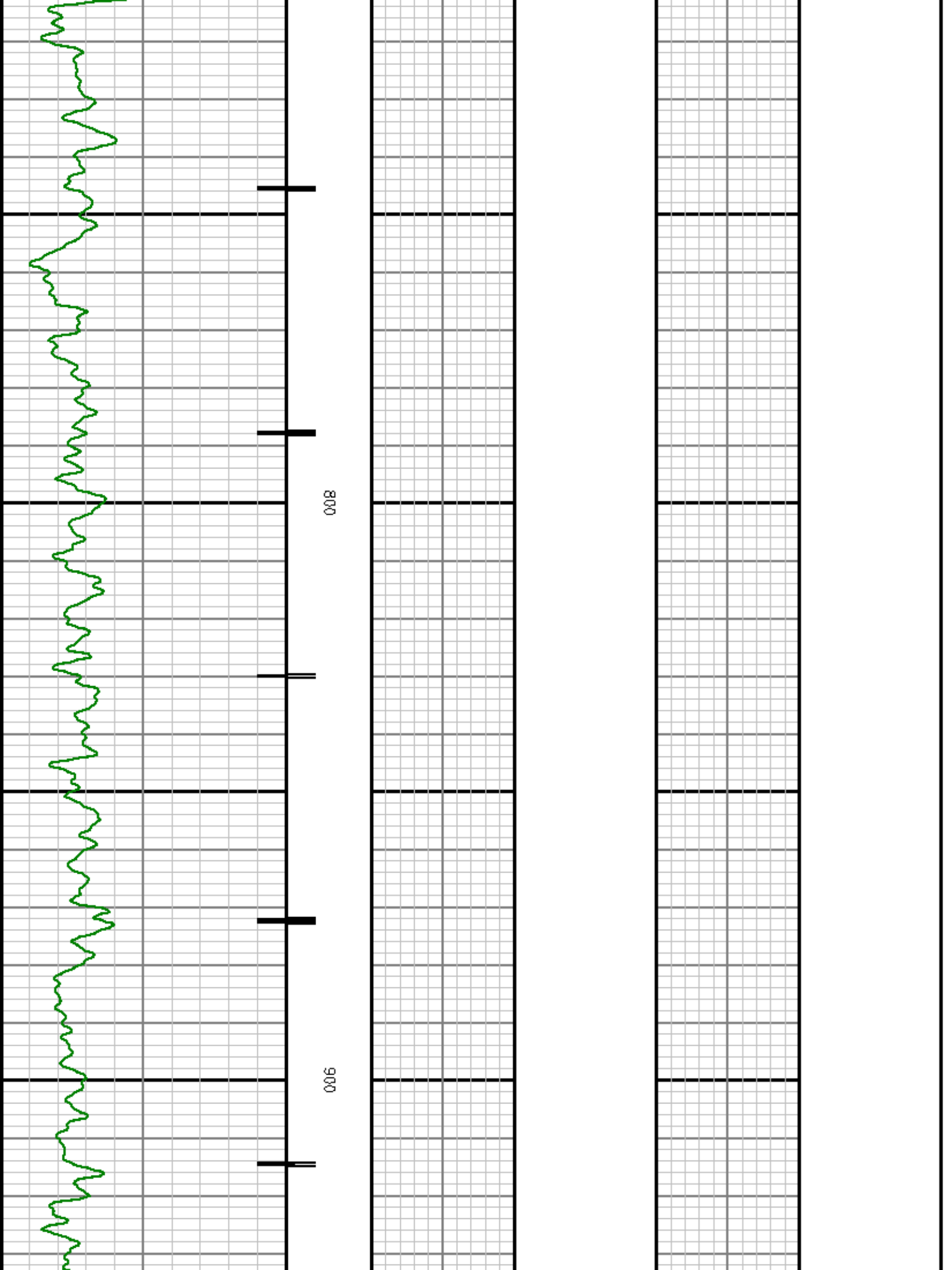
Created by : RAL, v4.6.007
 Plotted by : PlotMgr, v5.4.504
 Company : MARATHON OIL COMPANY
 Well : 596-19A-1B
 File Name : d:\well\data\rad19a\main_1.xtf
 Mode : PlotMgr 5.4.504
 Interval : 16.00 - 10115.00 feet UP
 Created : 7/16/2009 3:55:41 PM

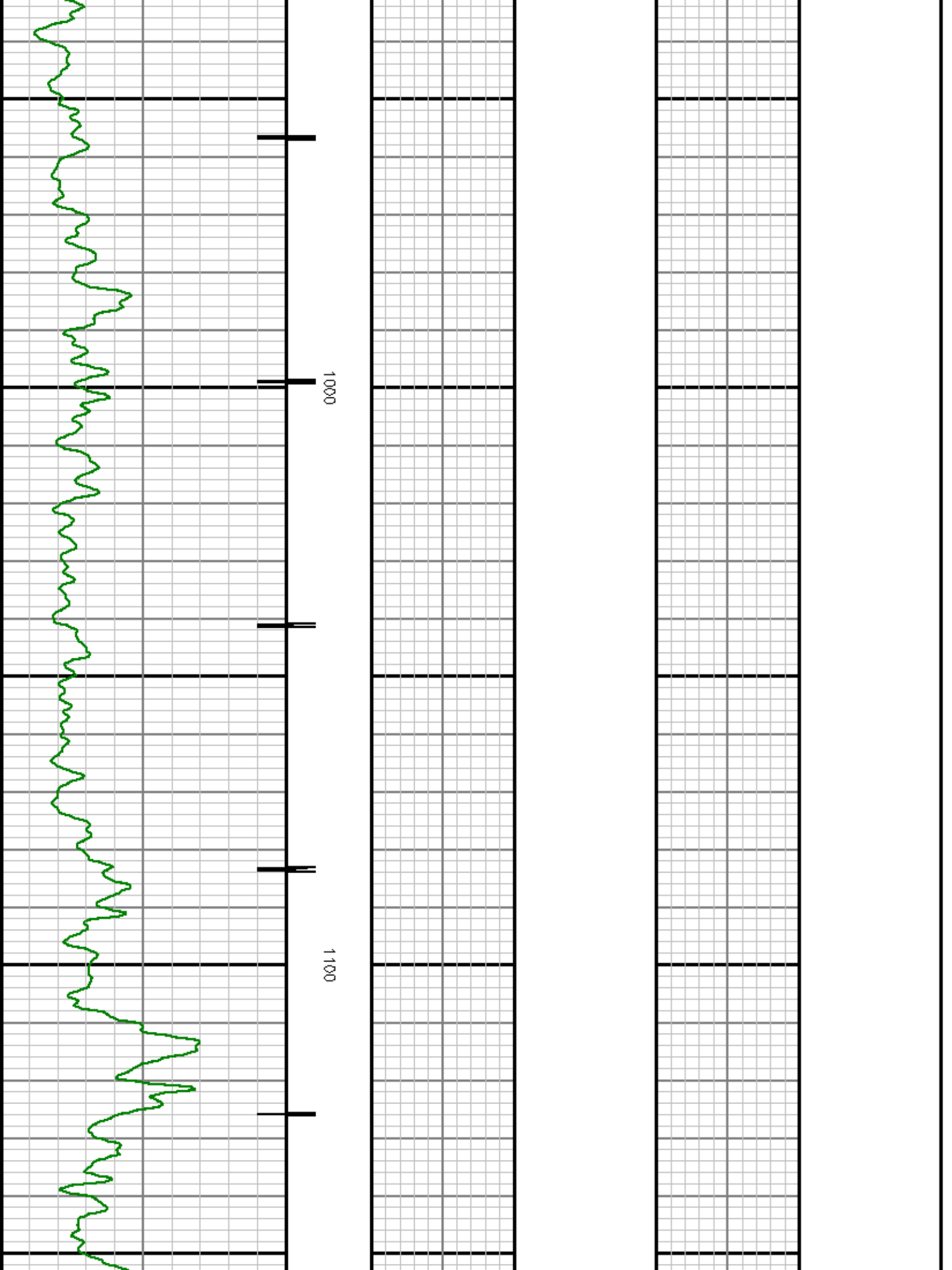


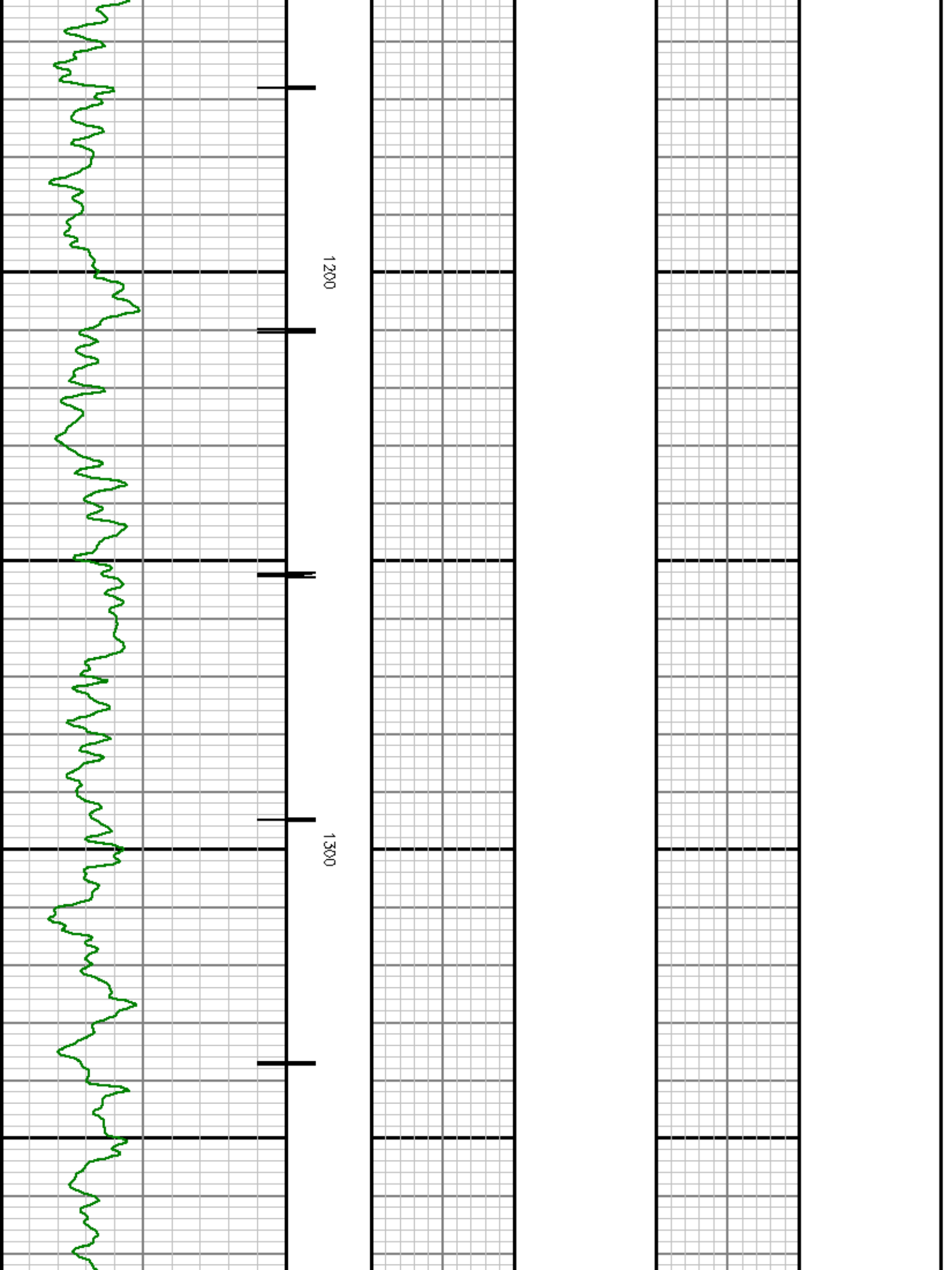


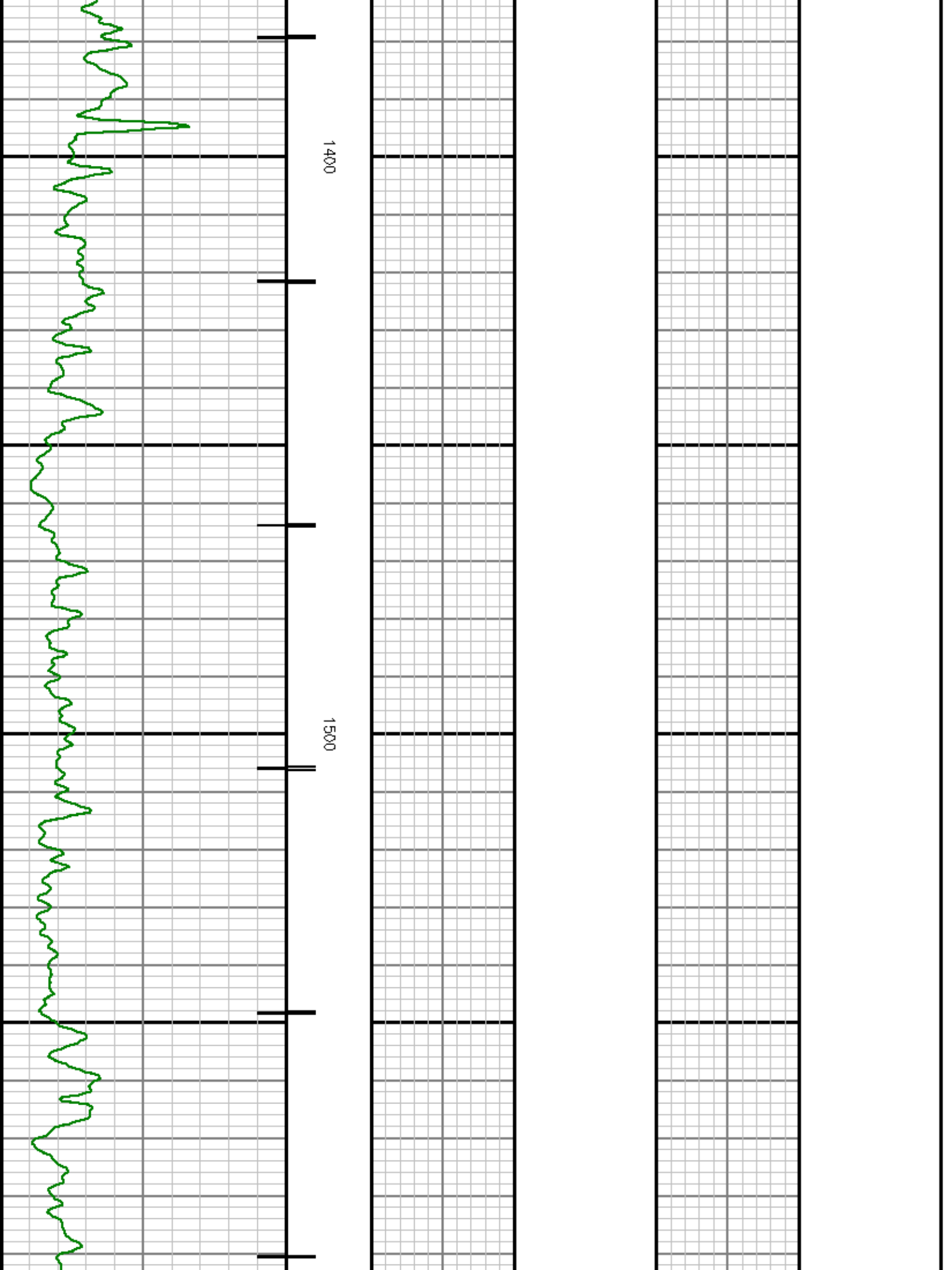


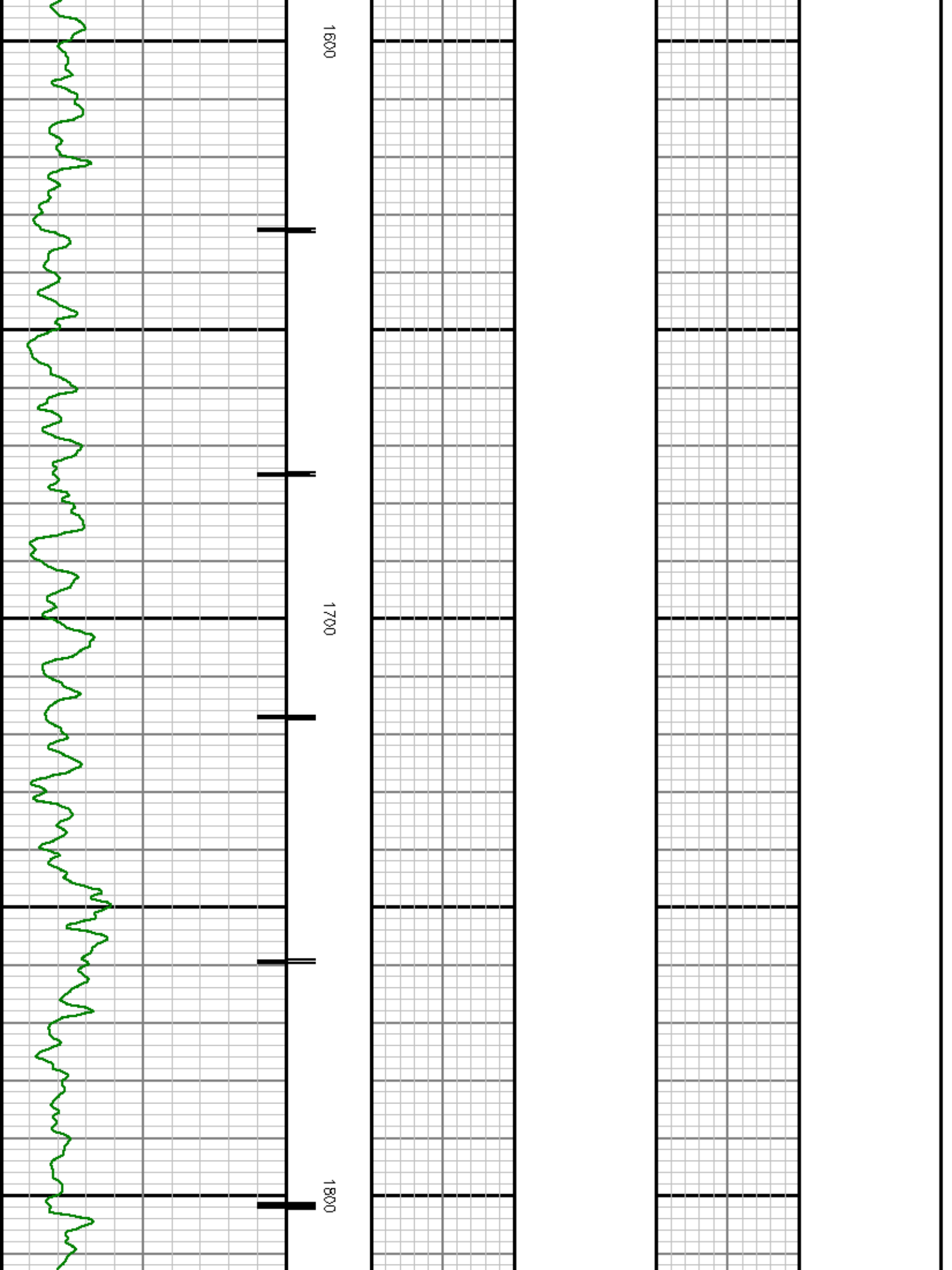


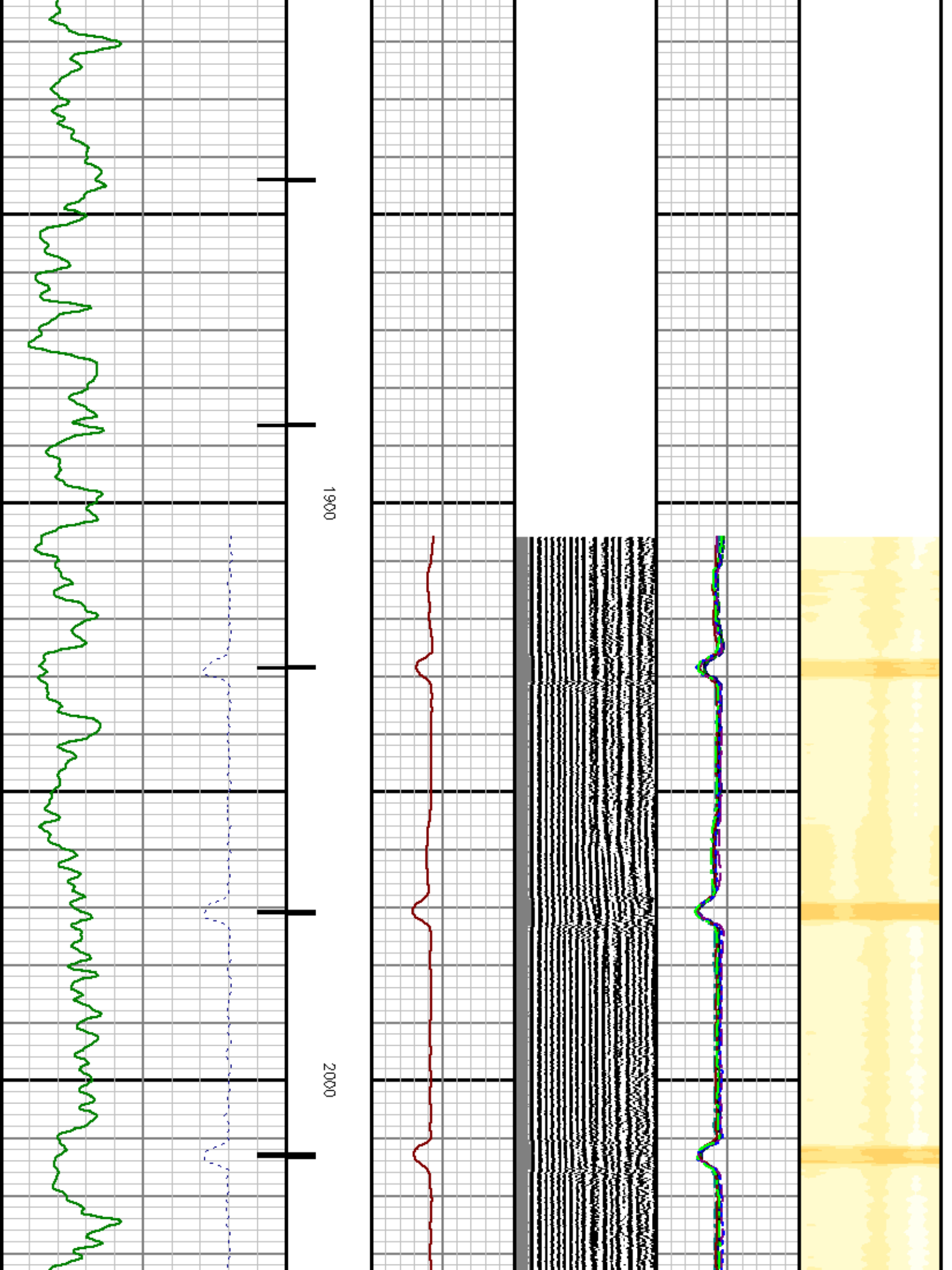


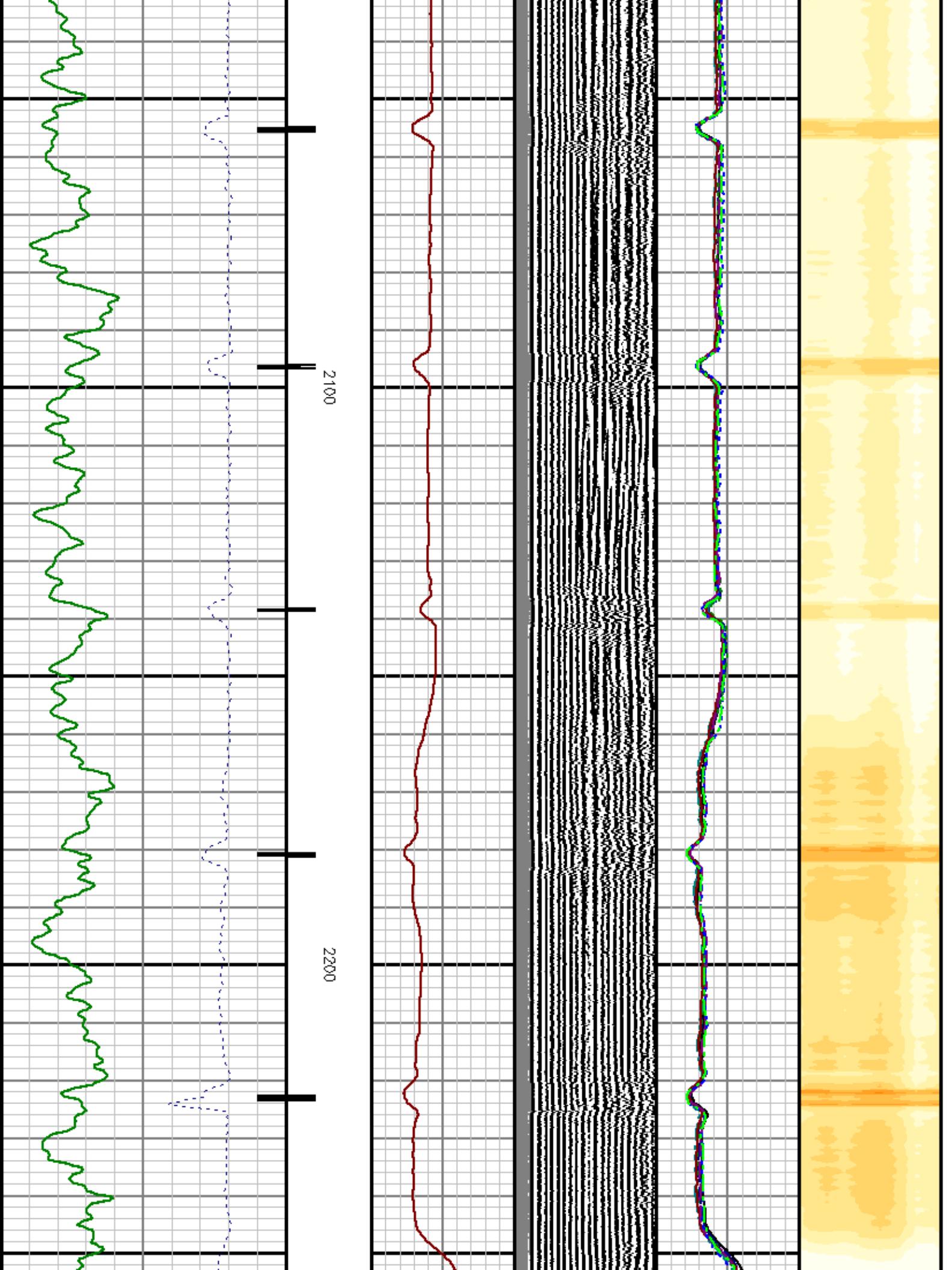


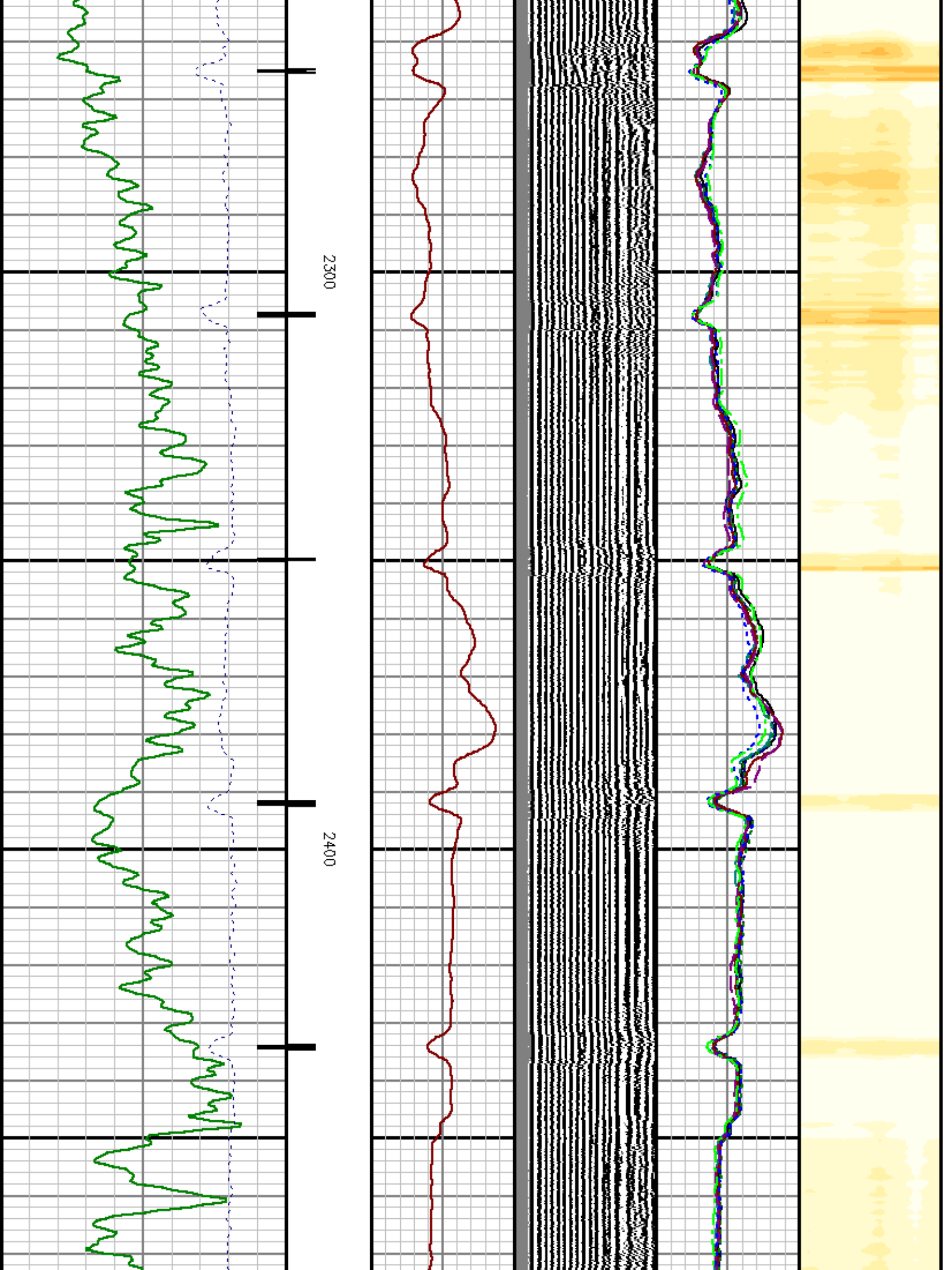


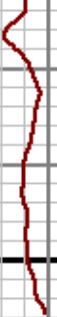
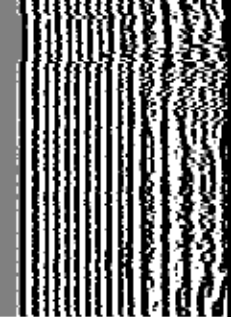
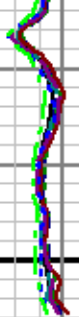






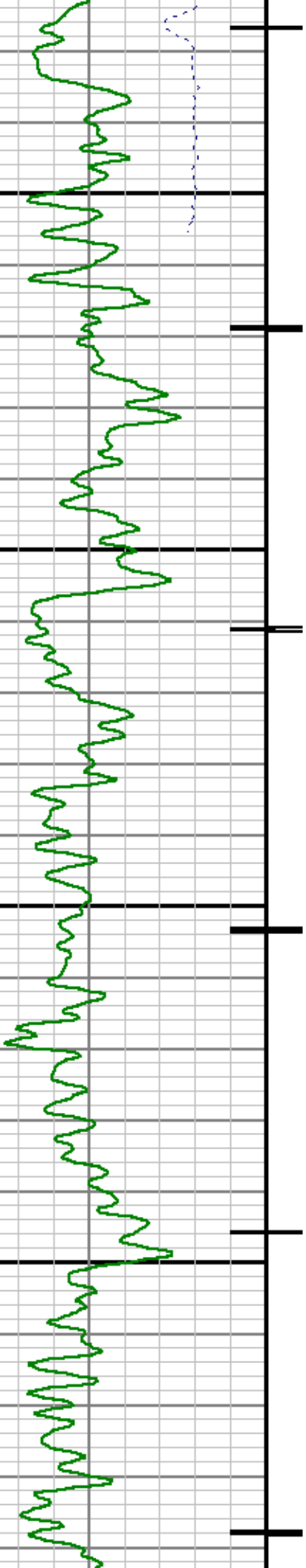


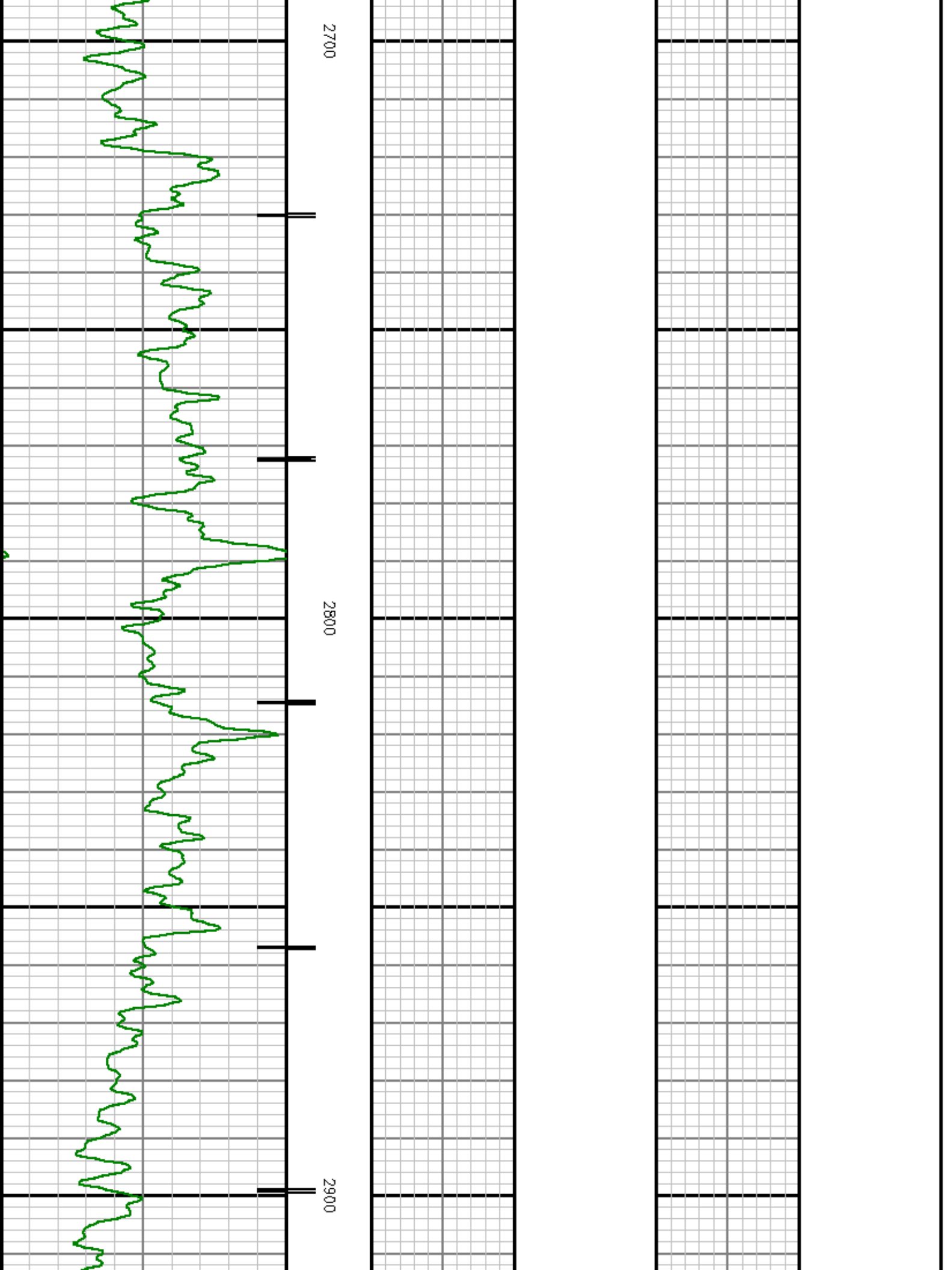


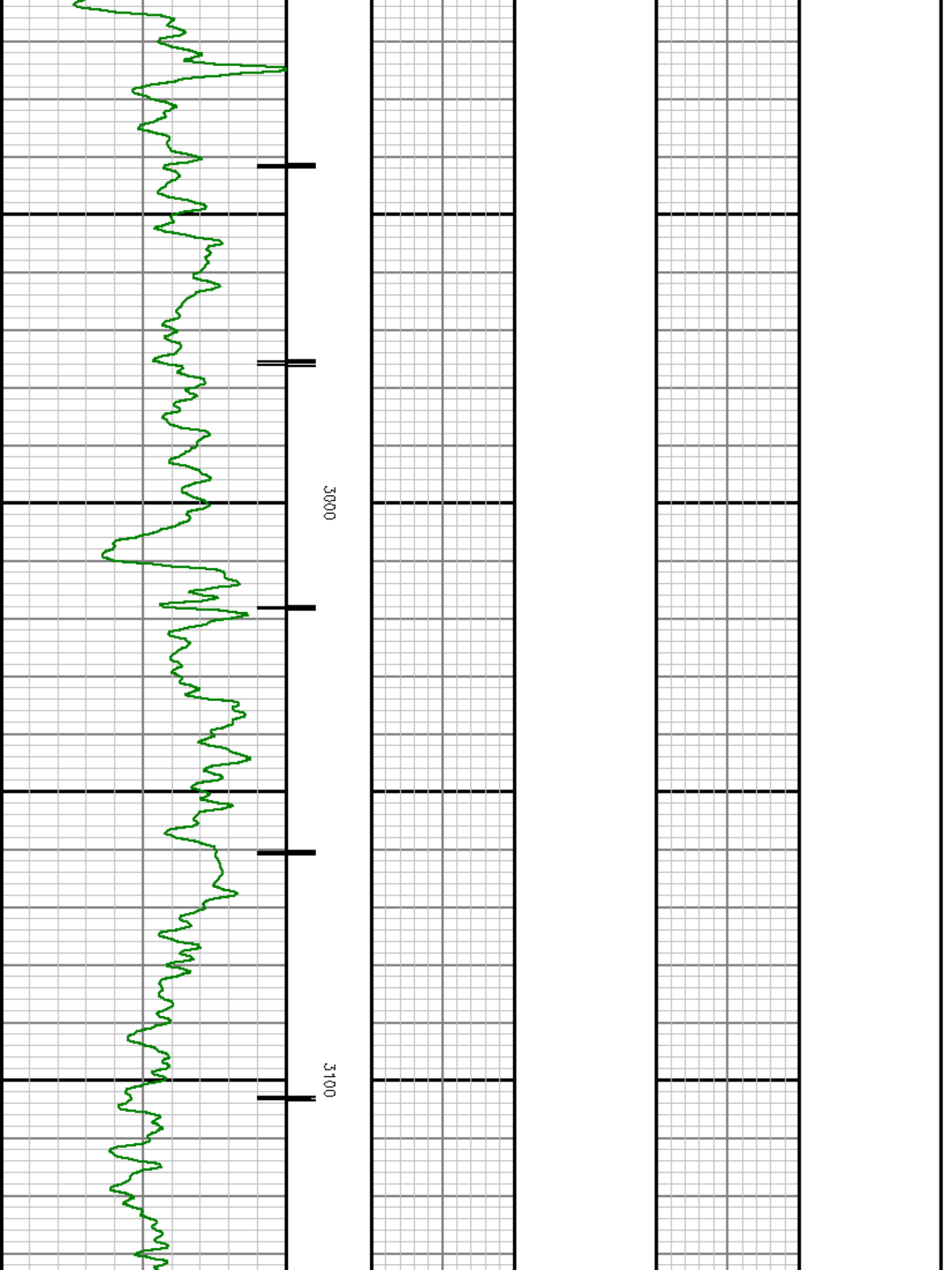


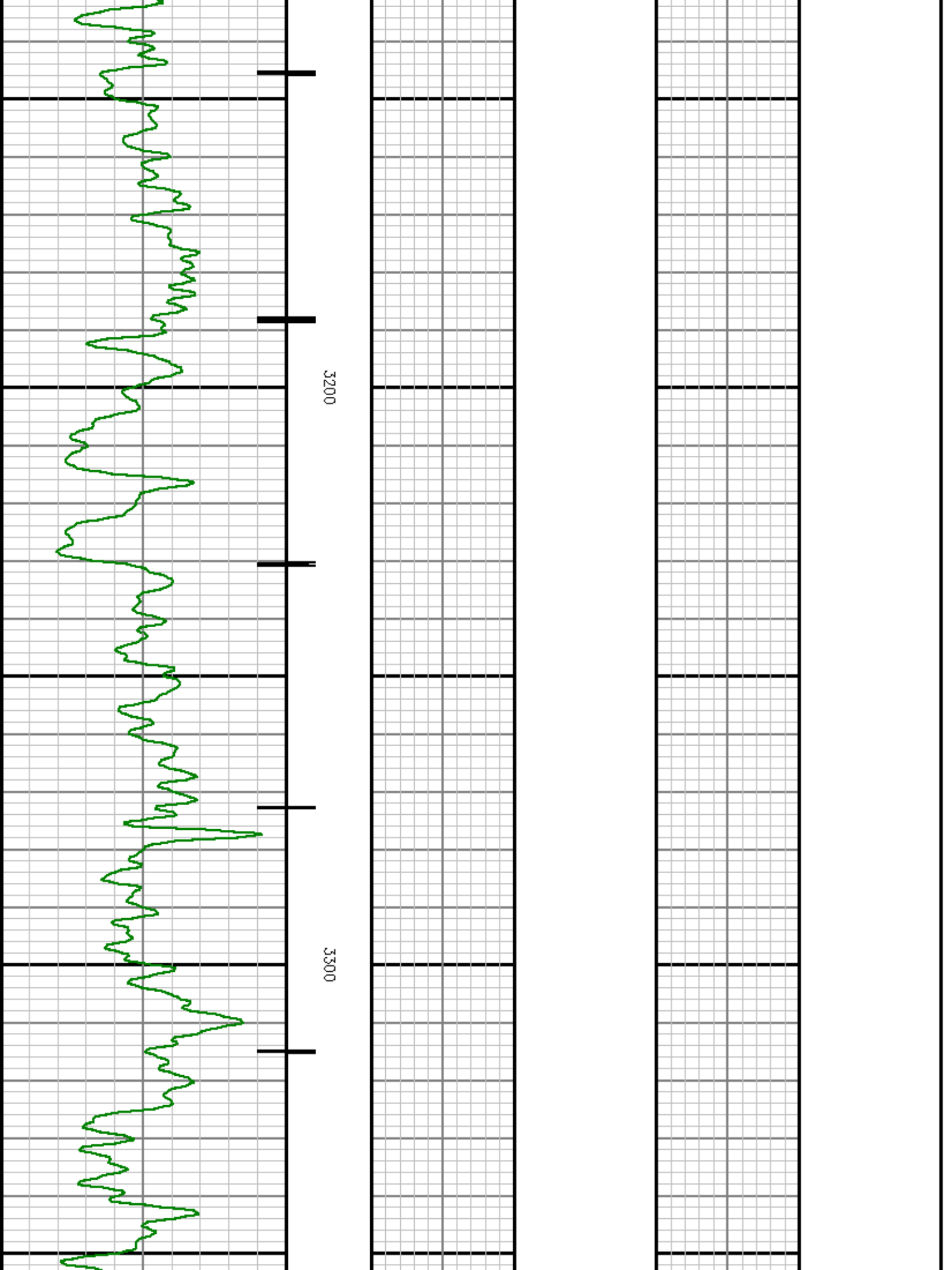
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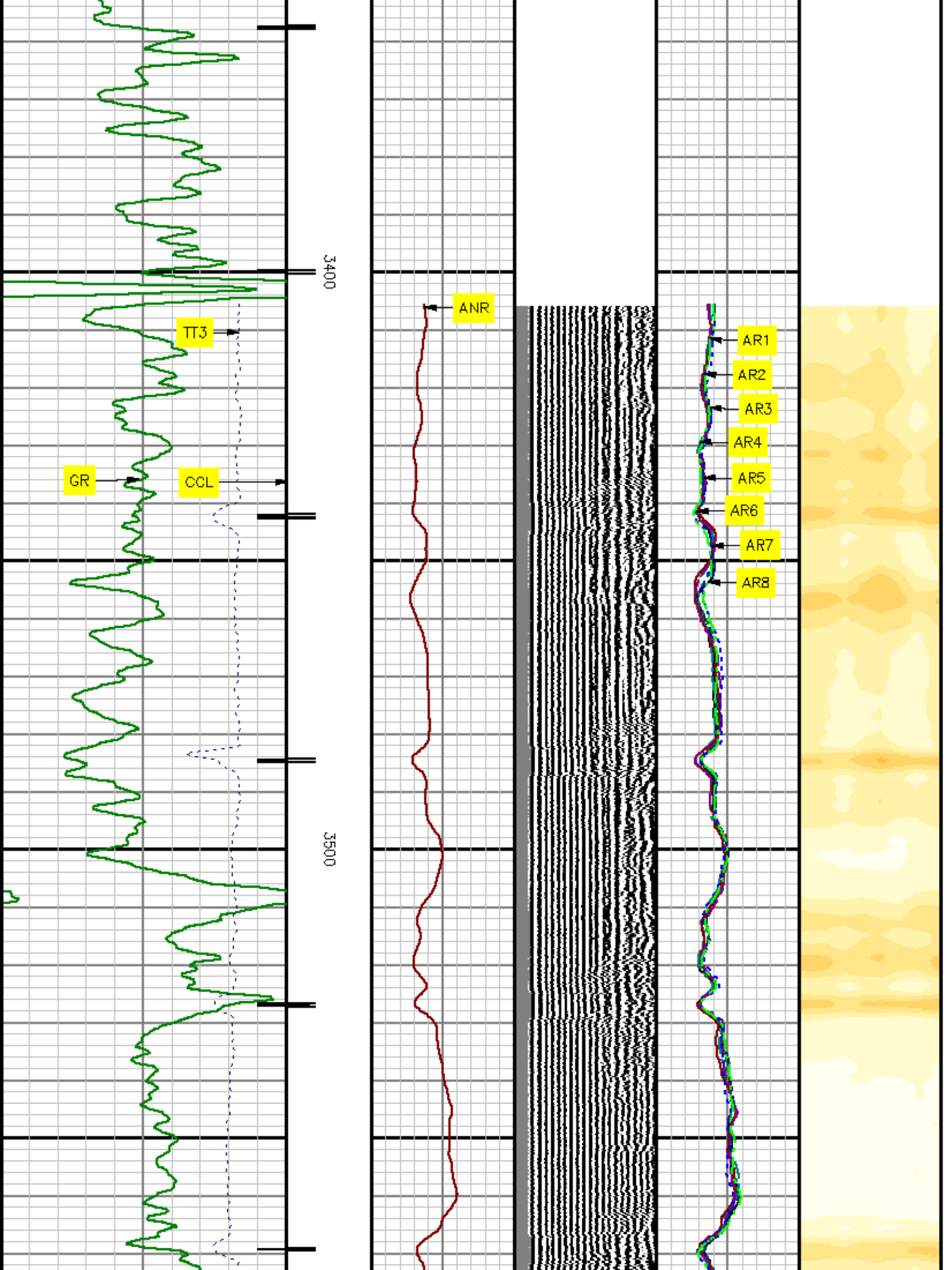
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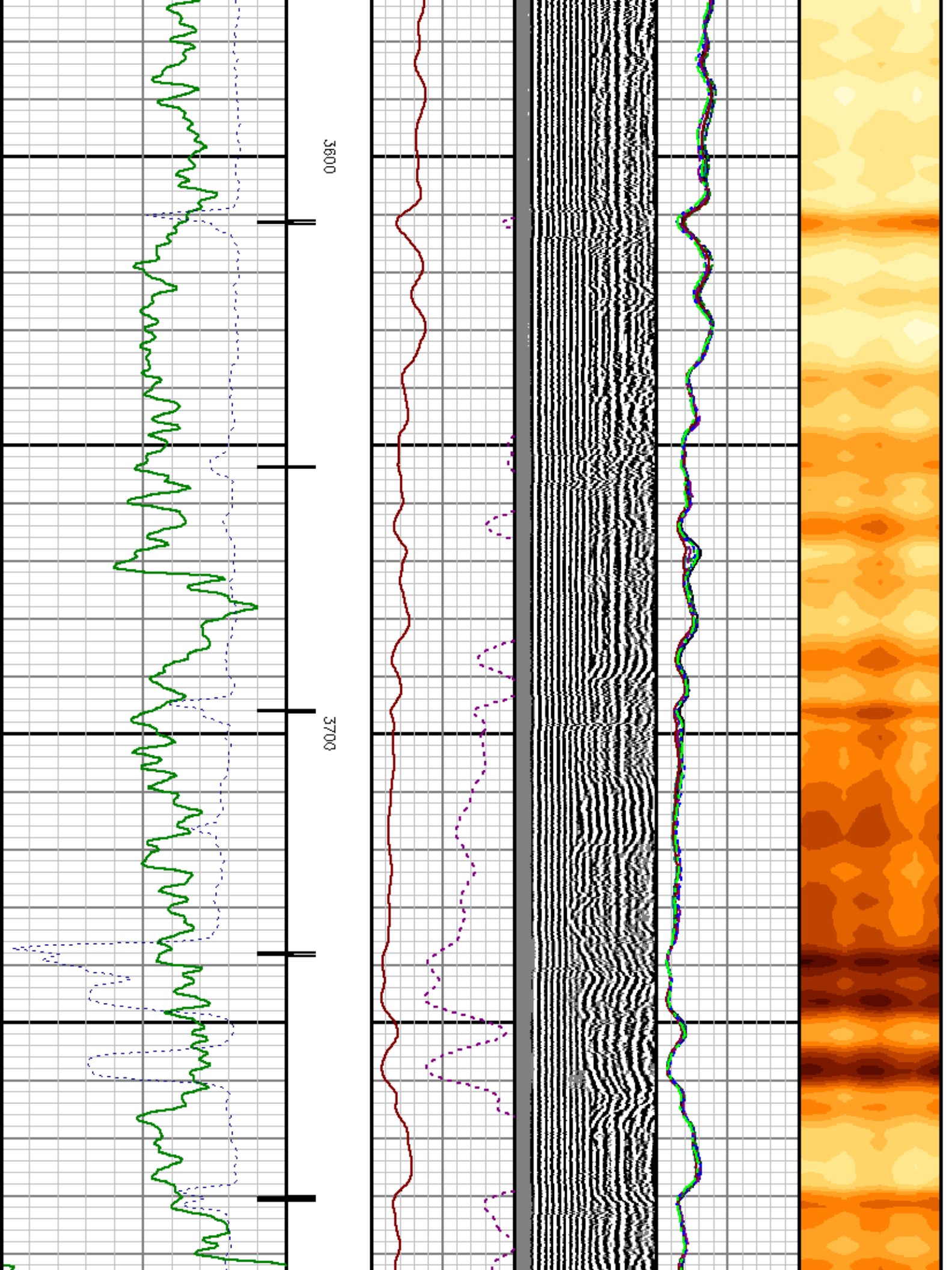


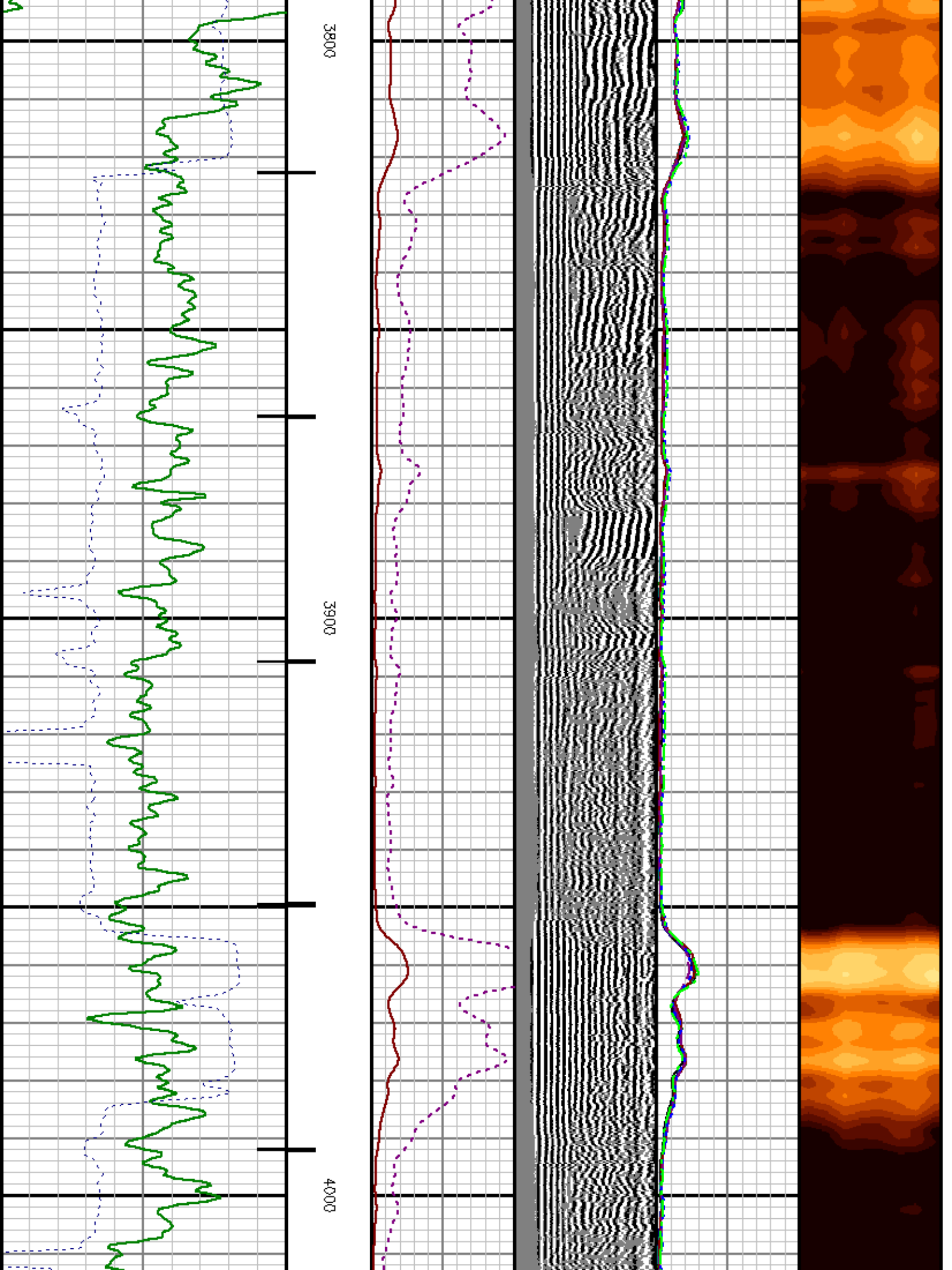


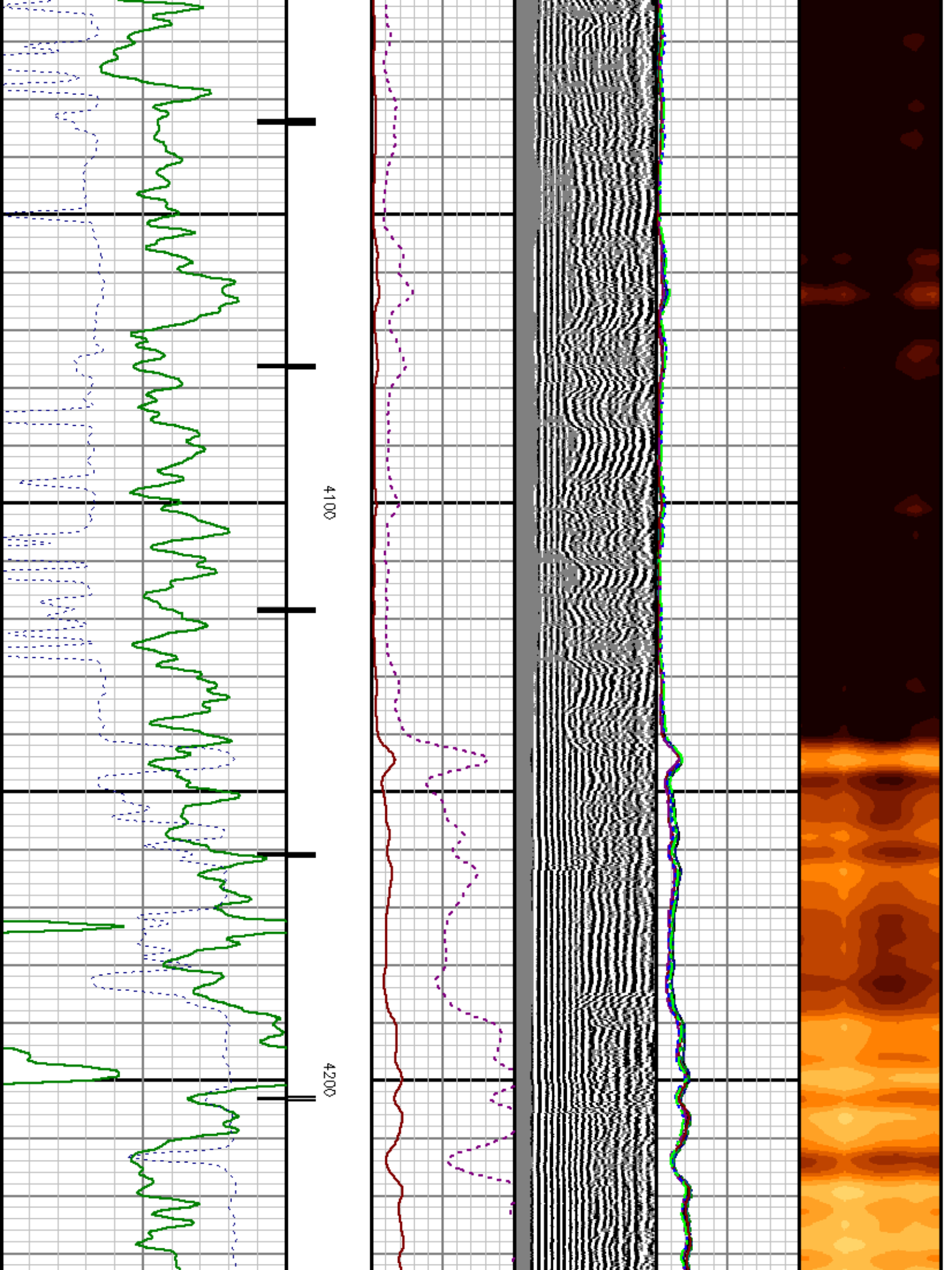


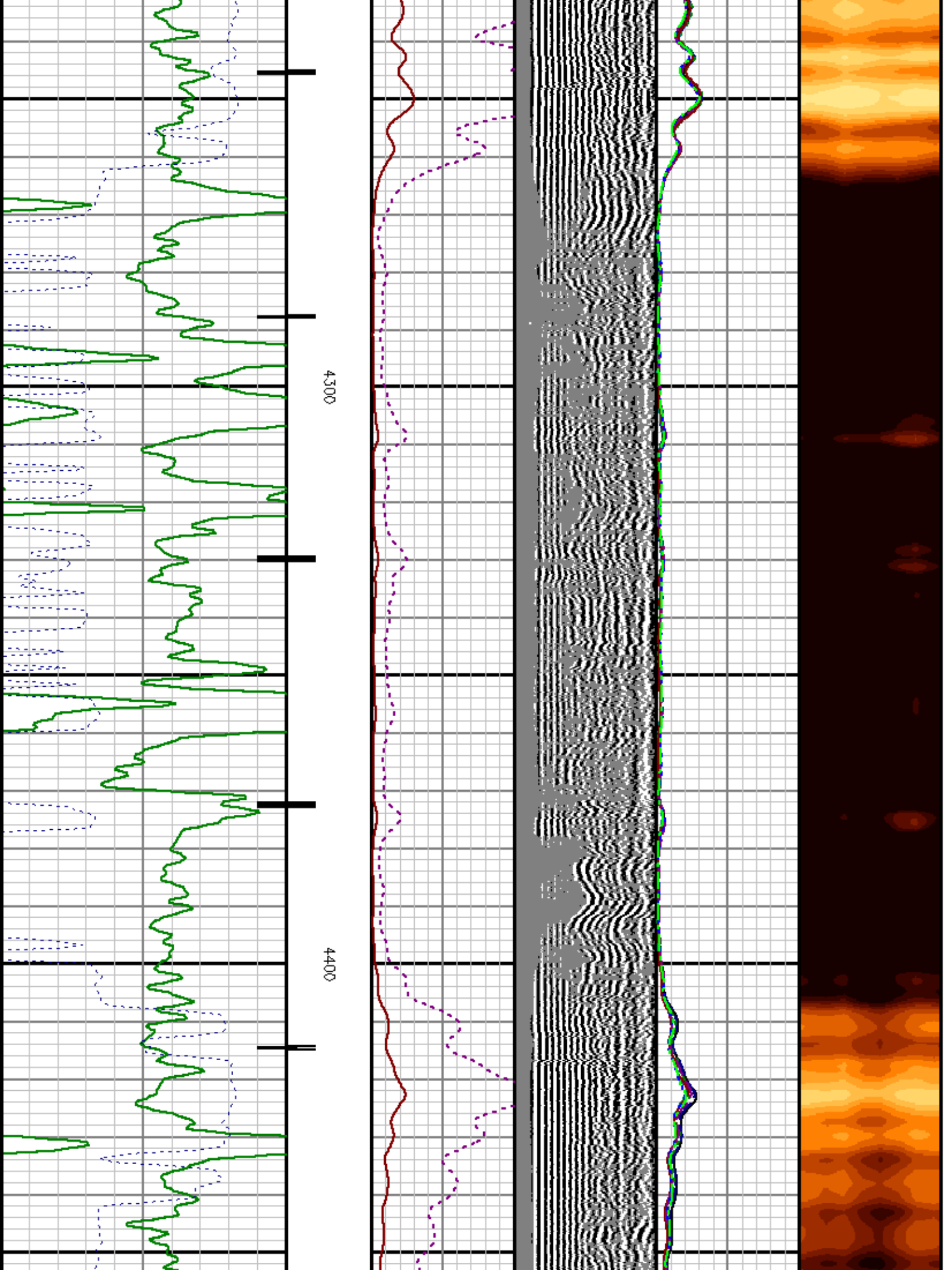


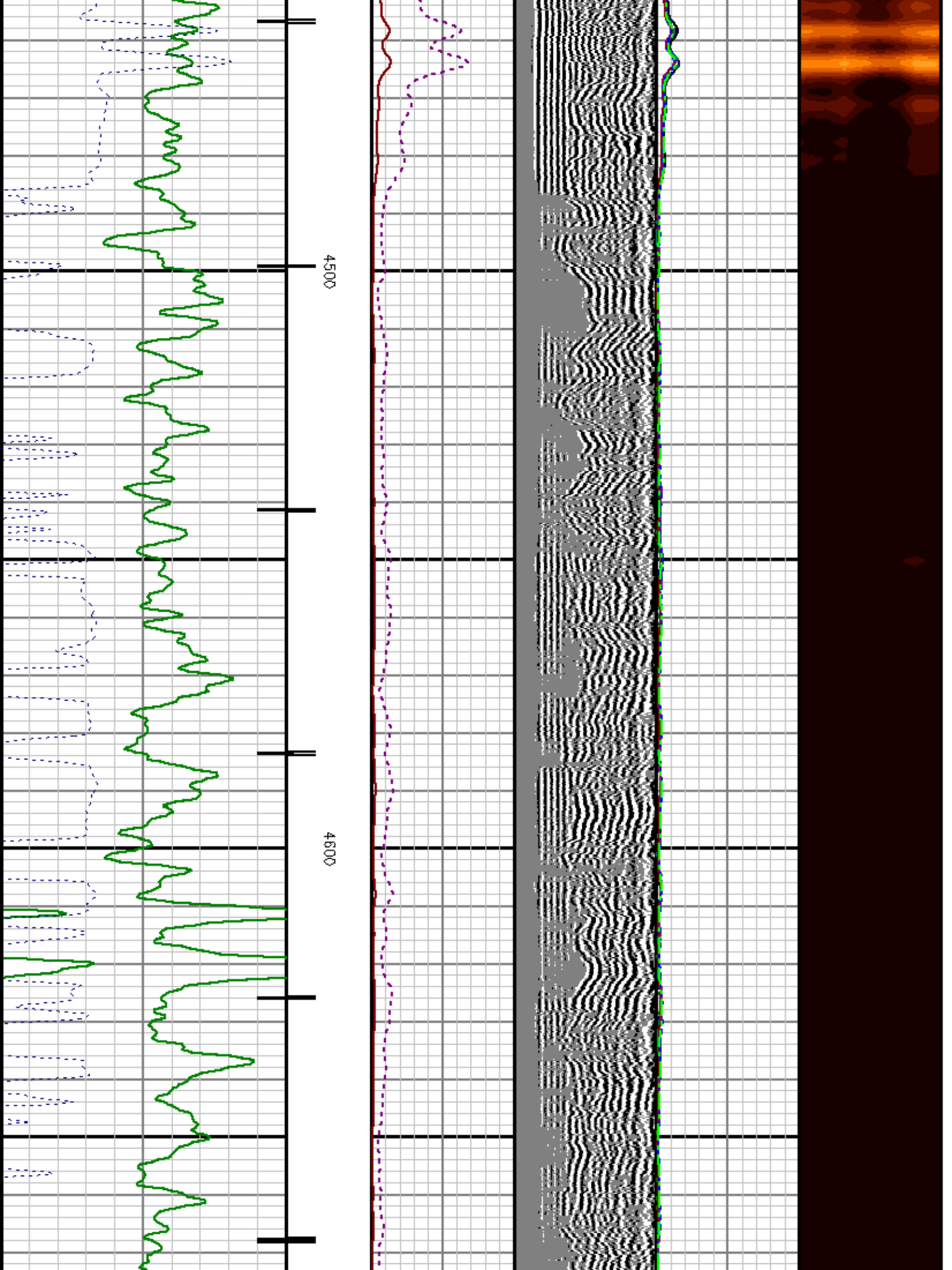


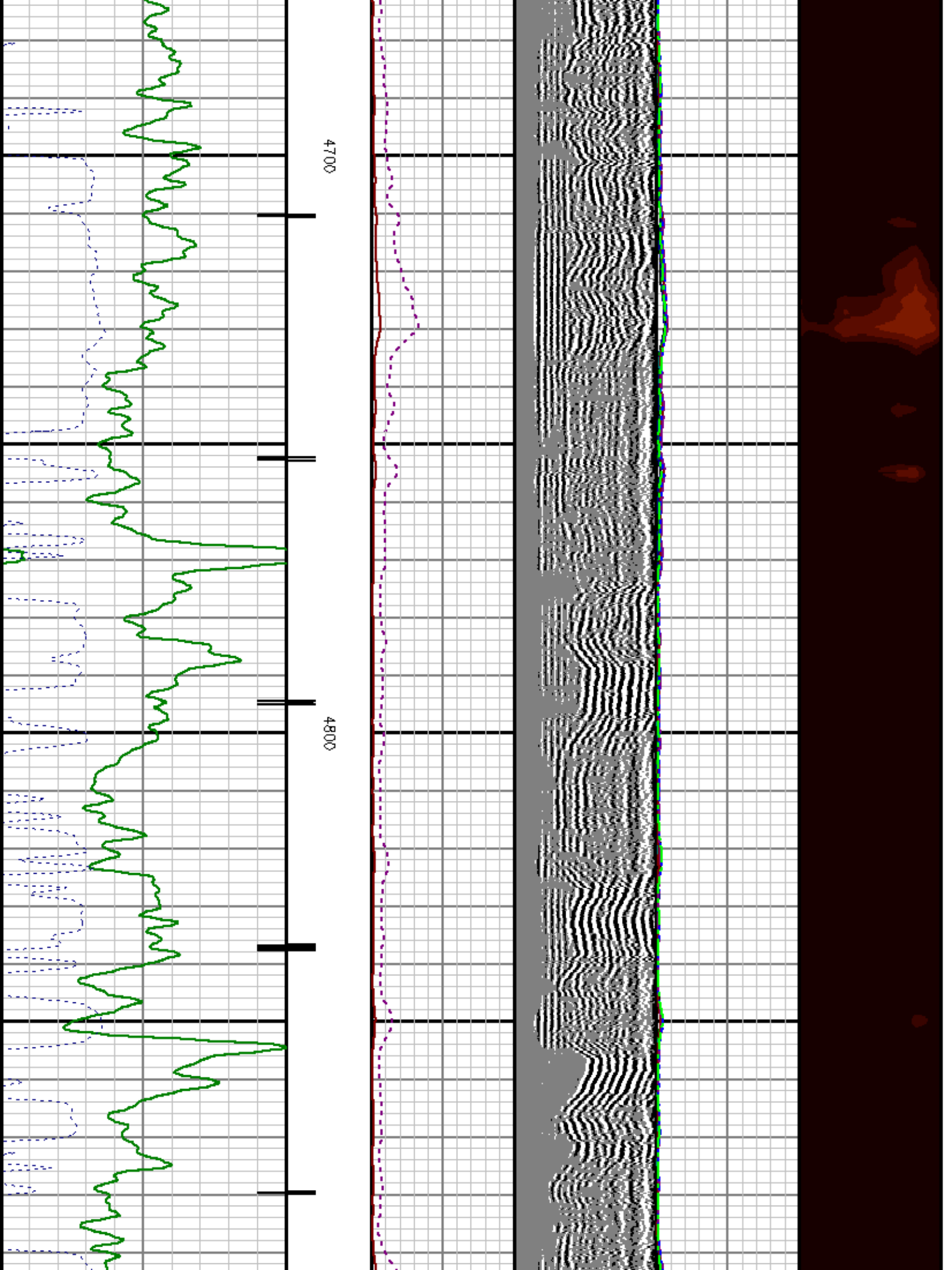


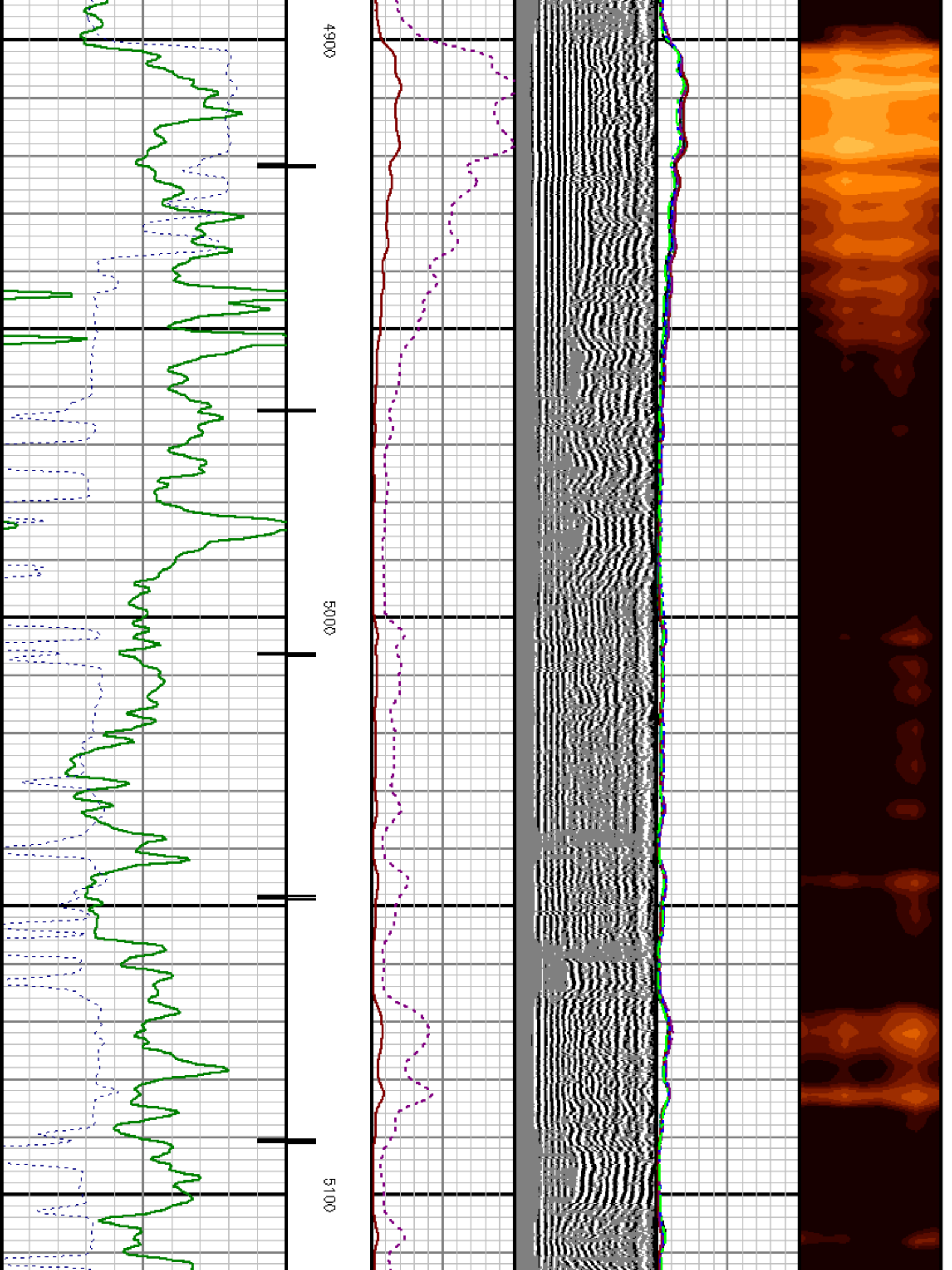


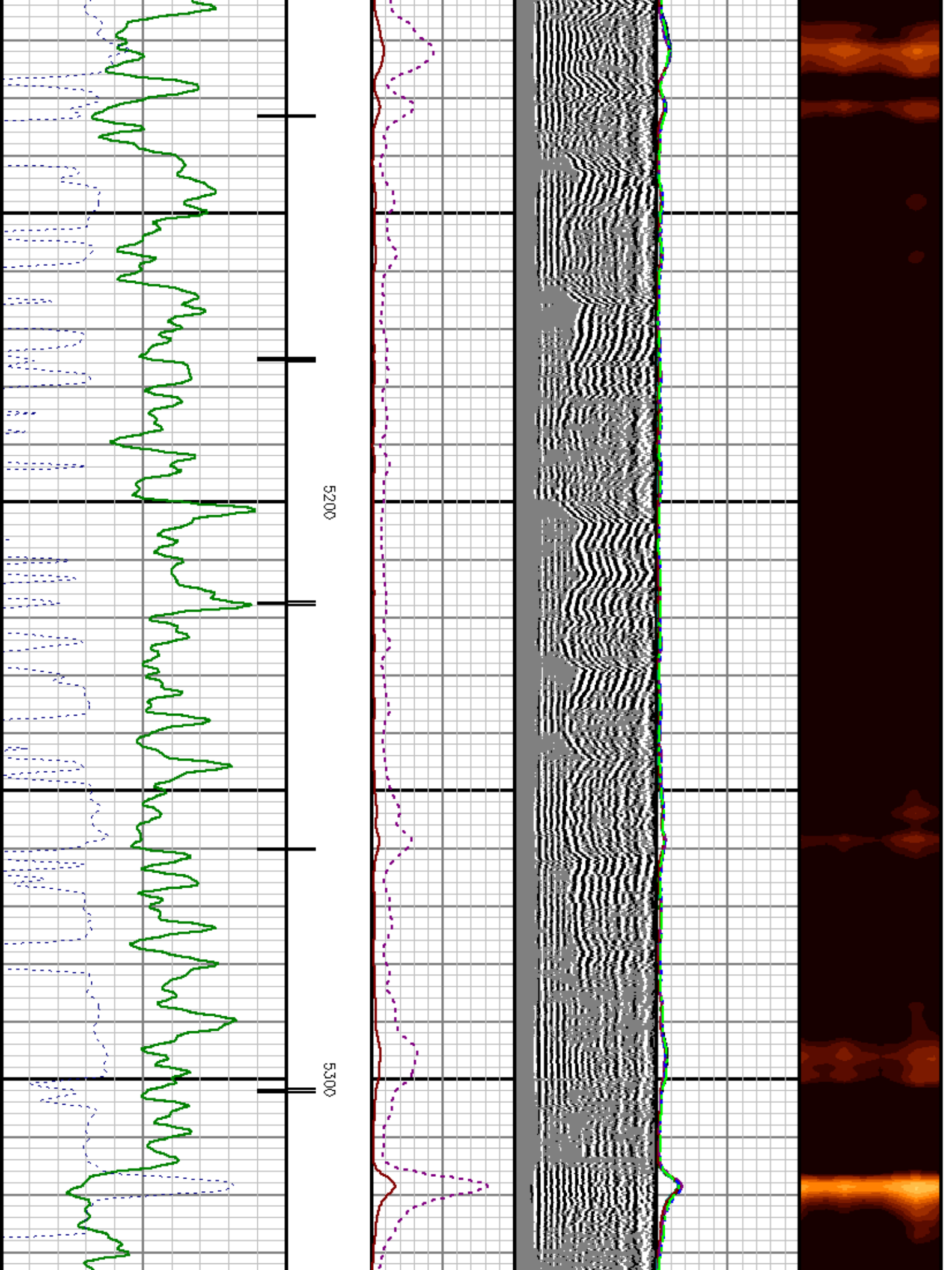


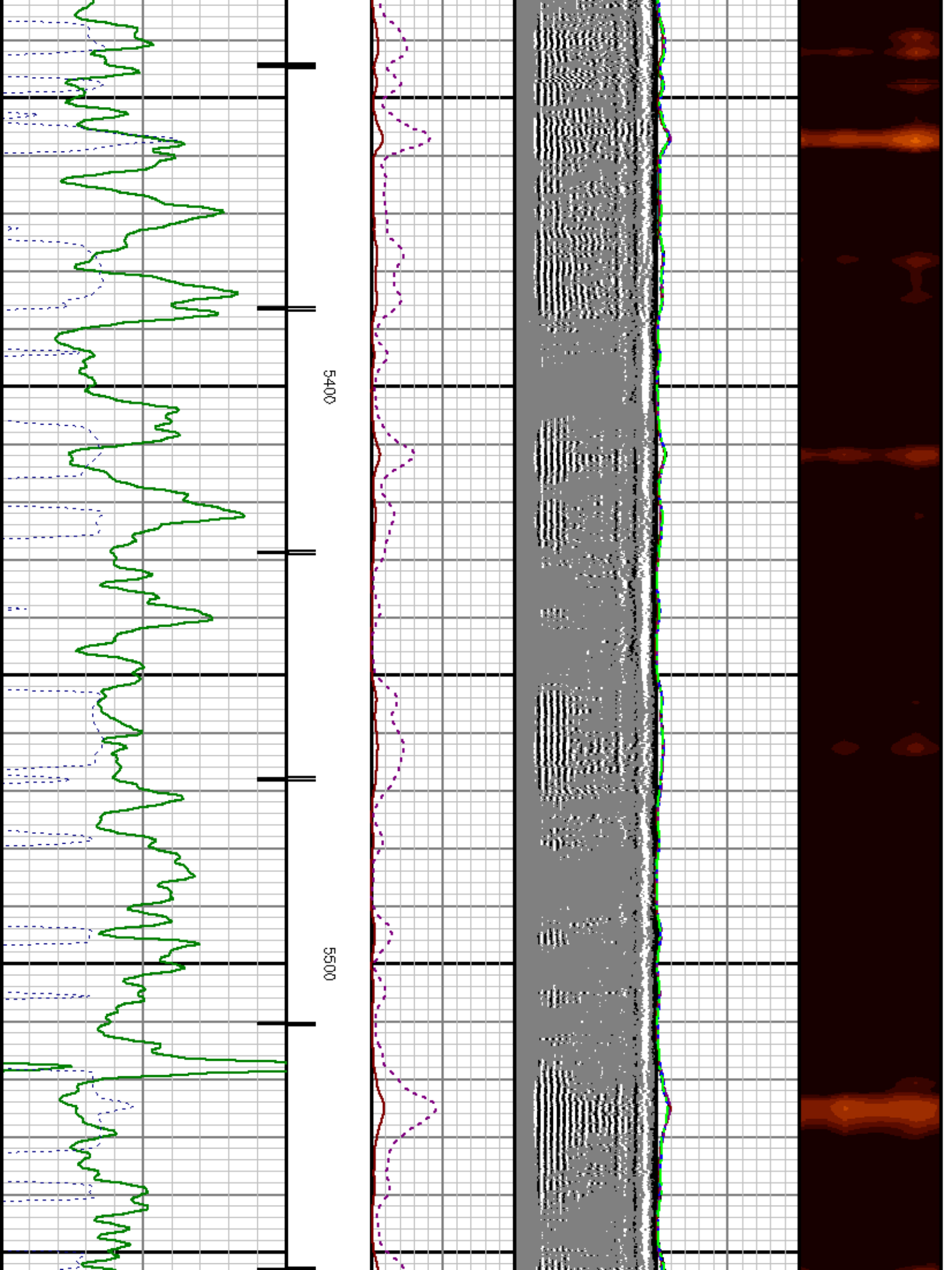


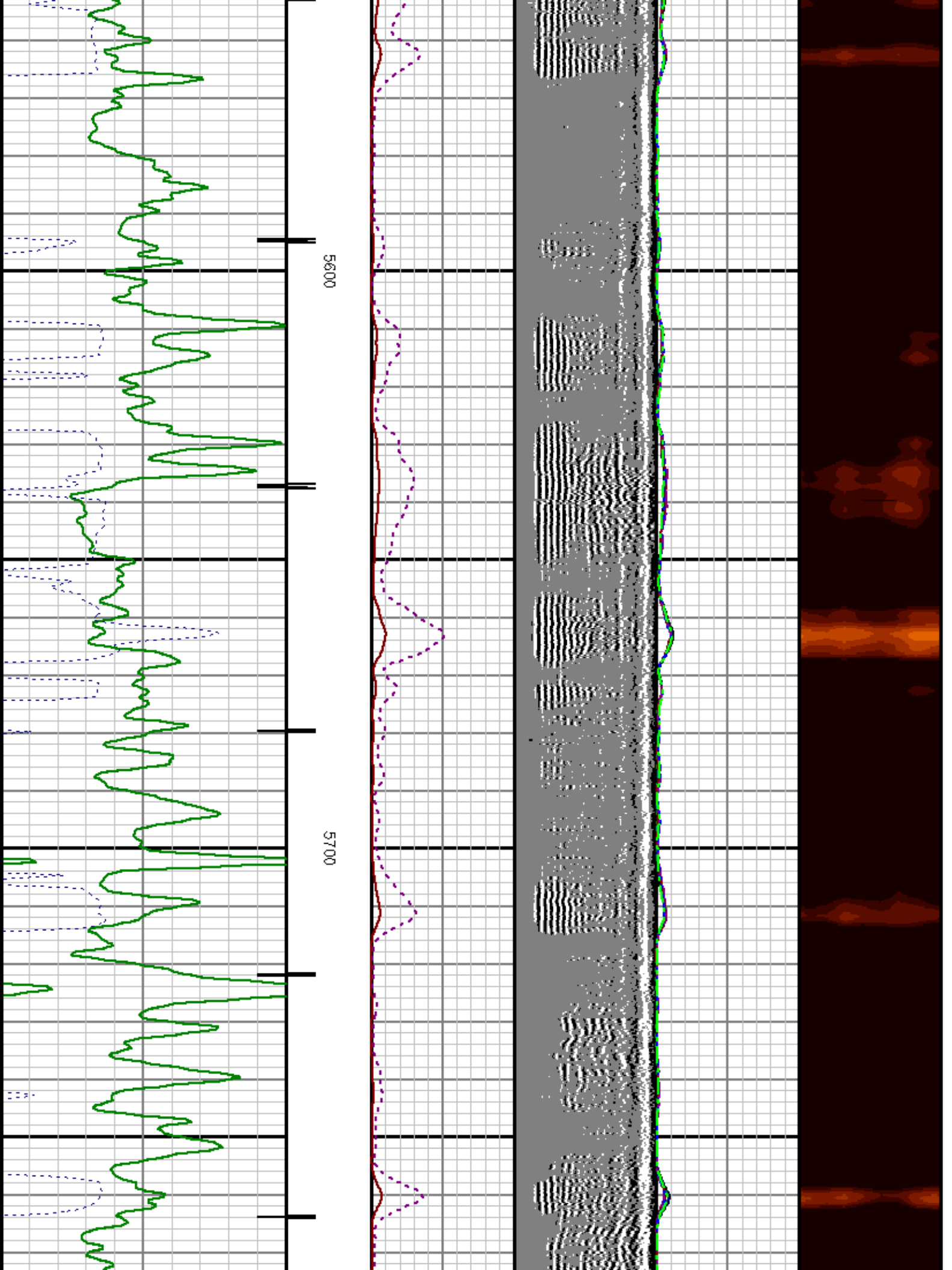


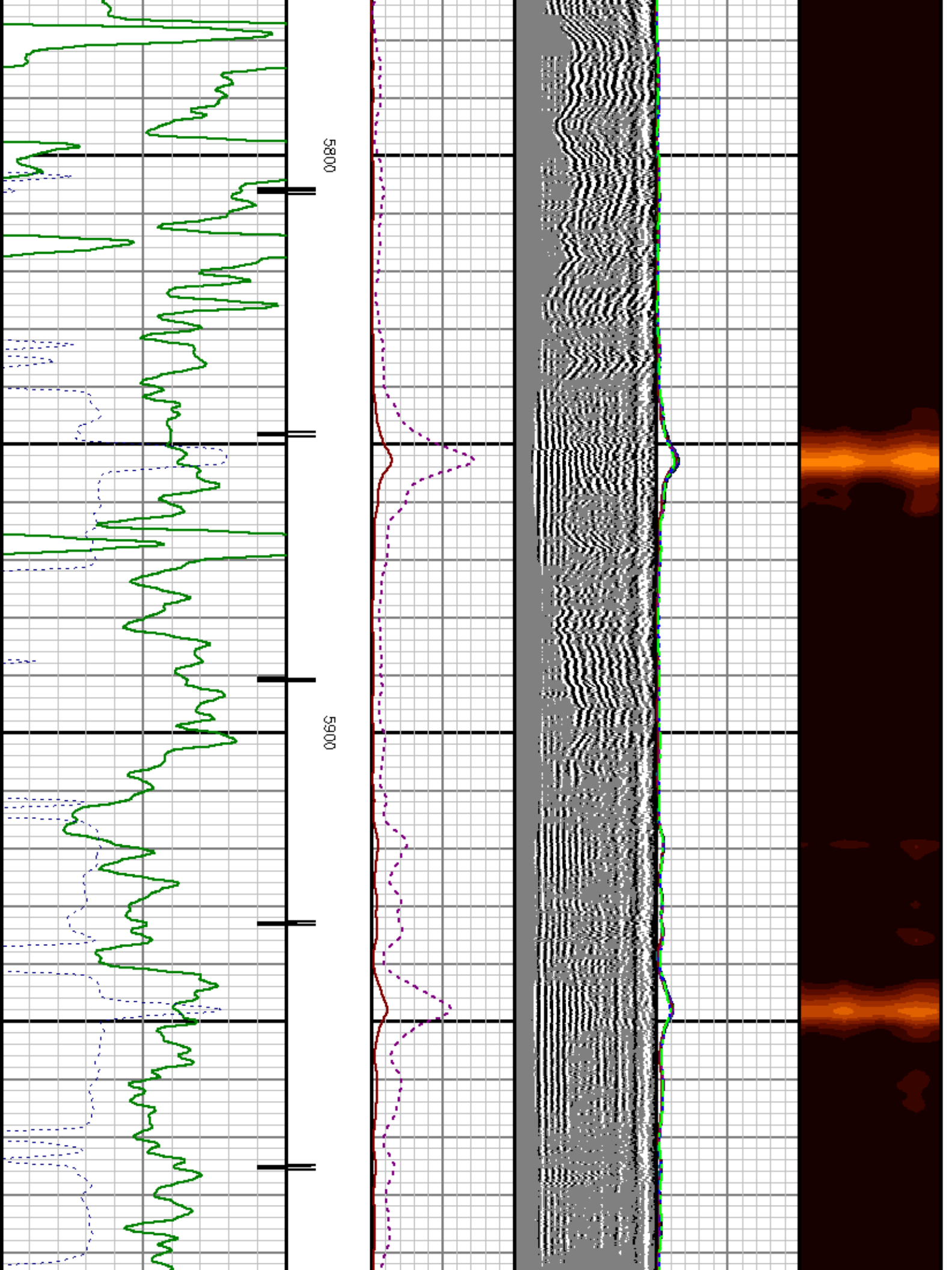


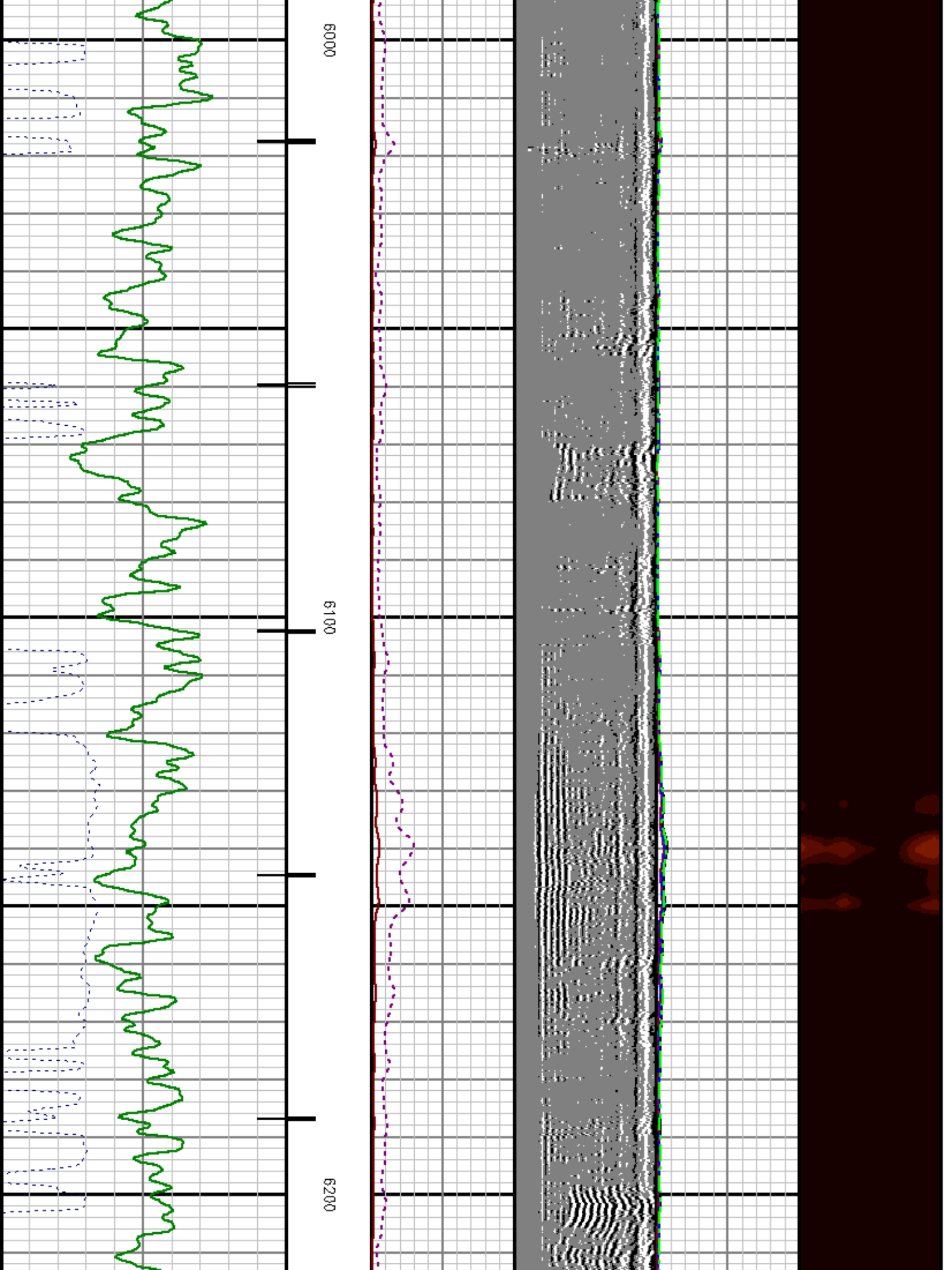


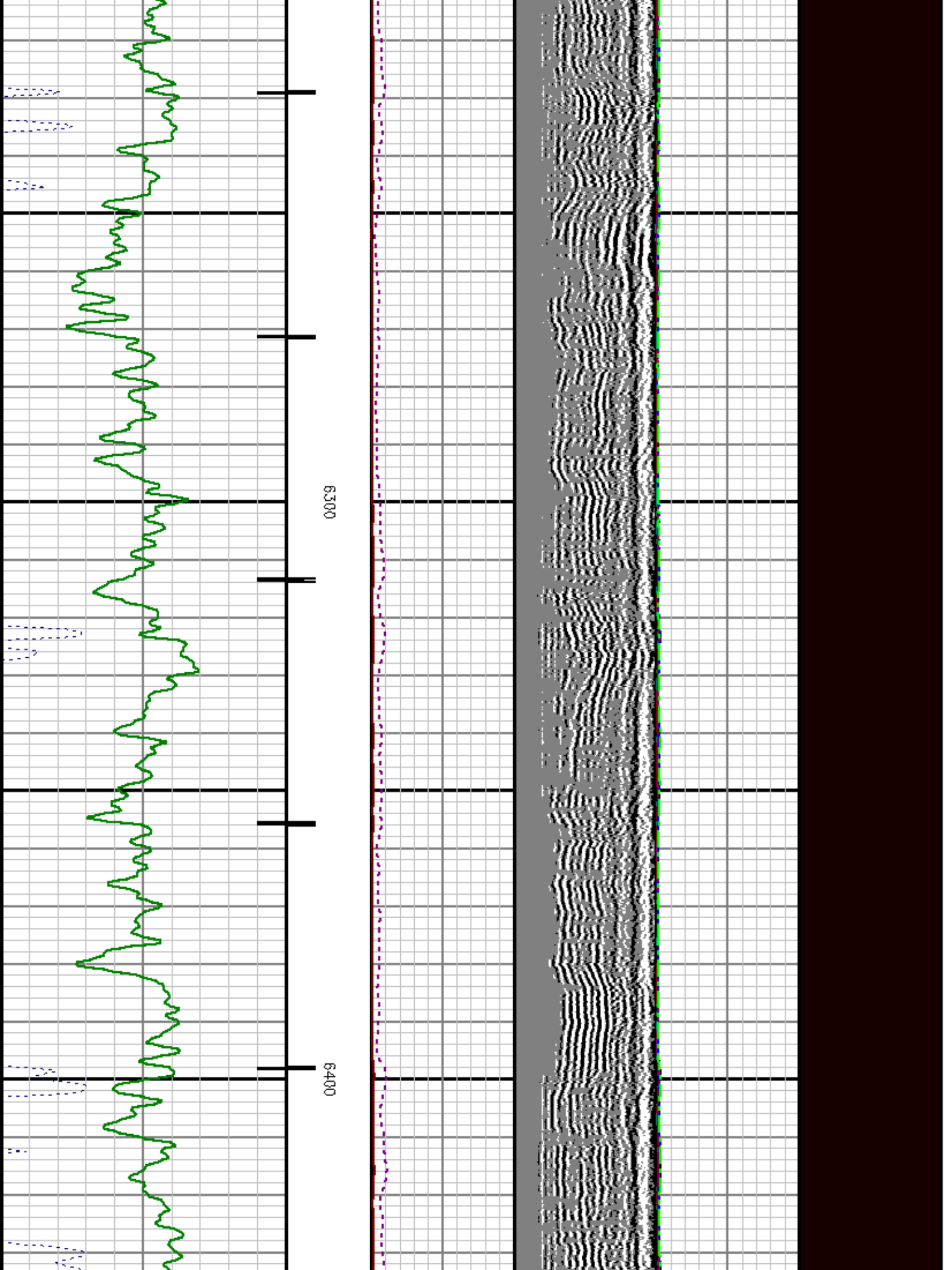


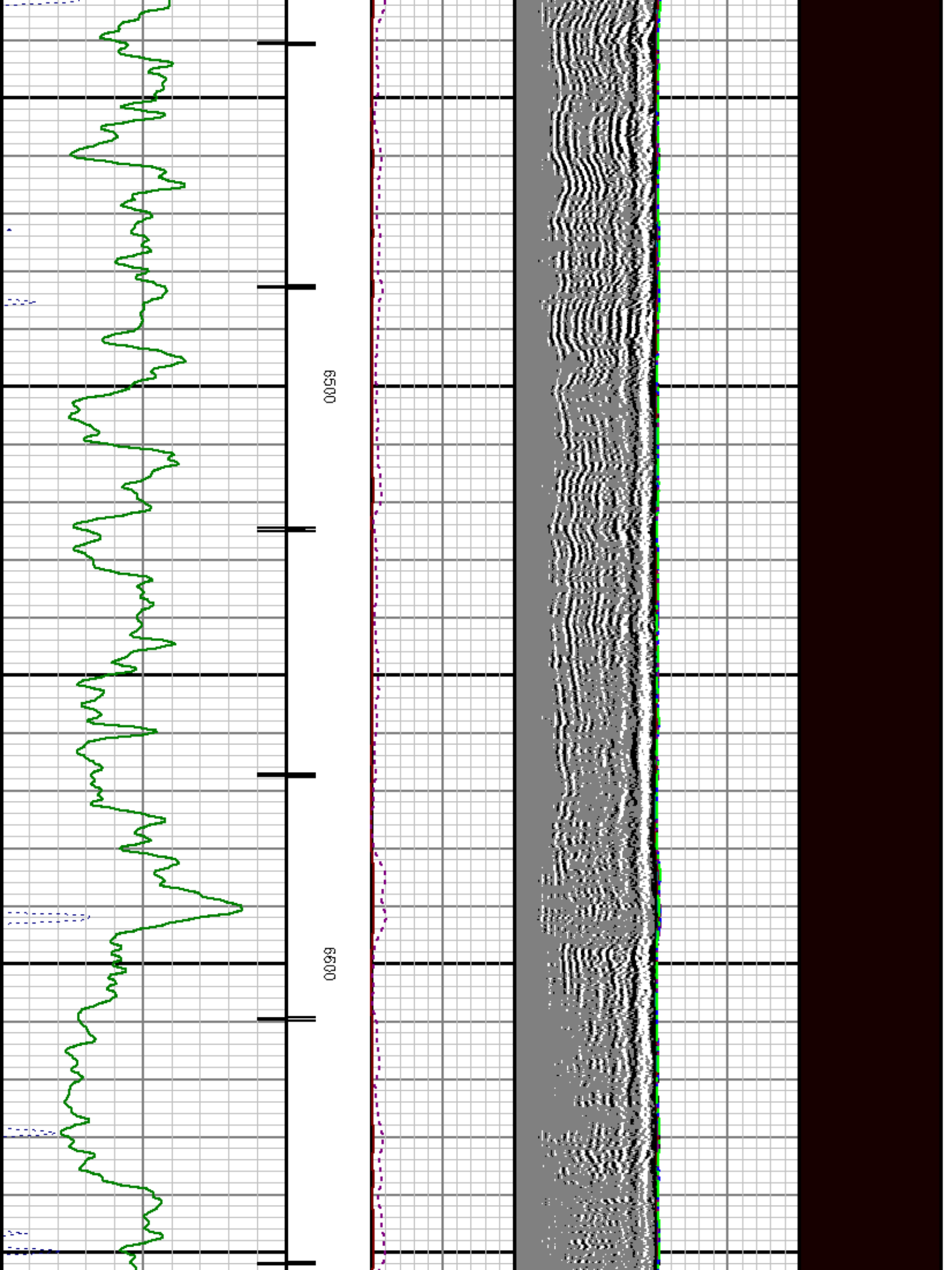


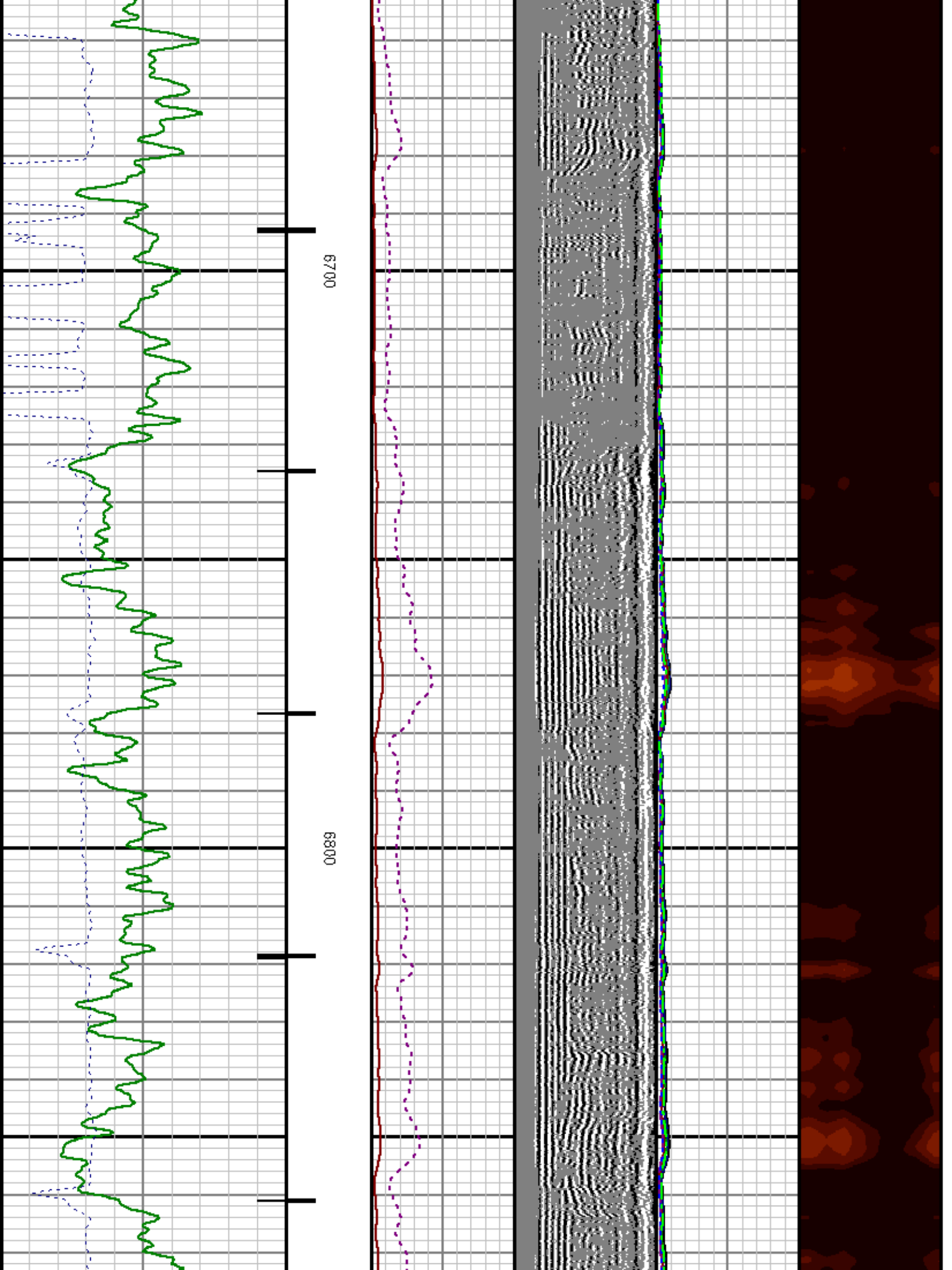


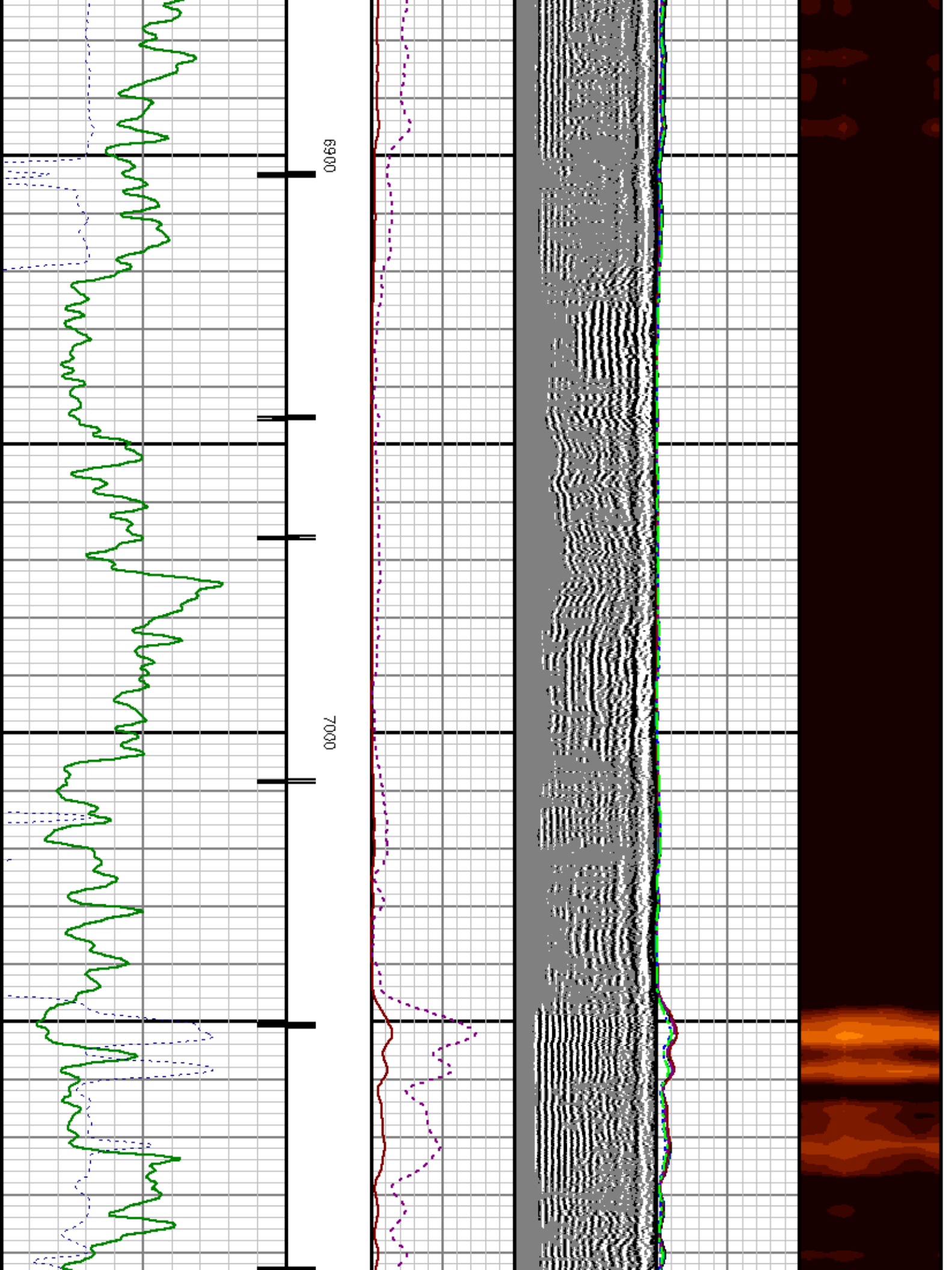


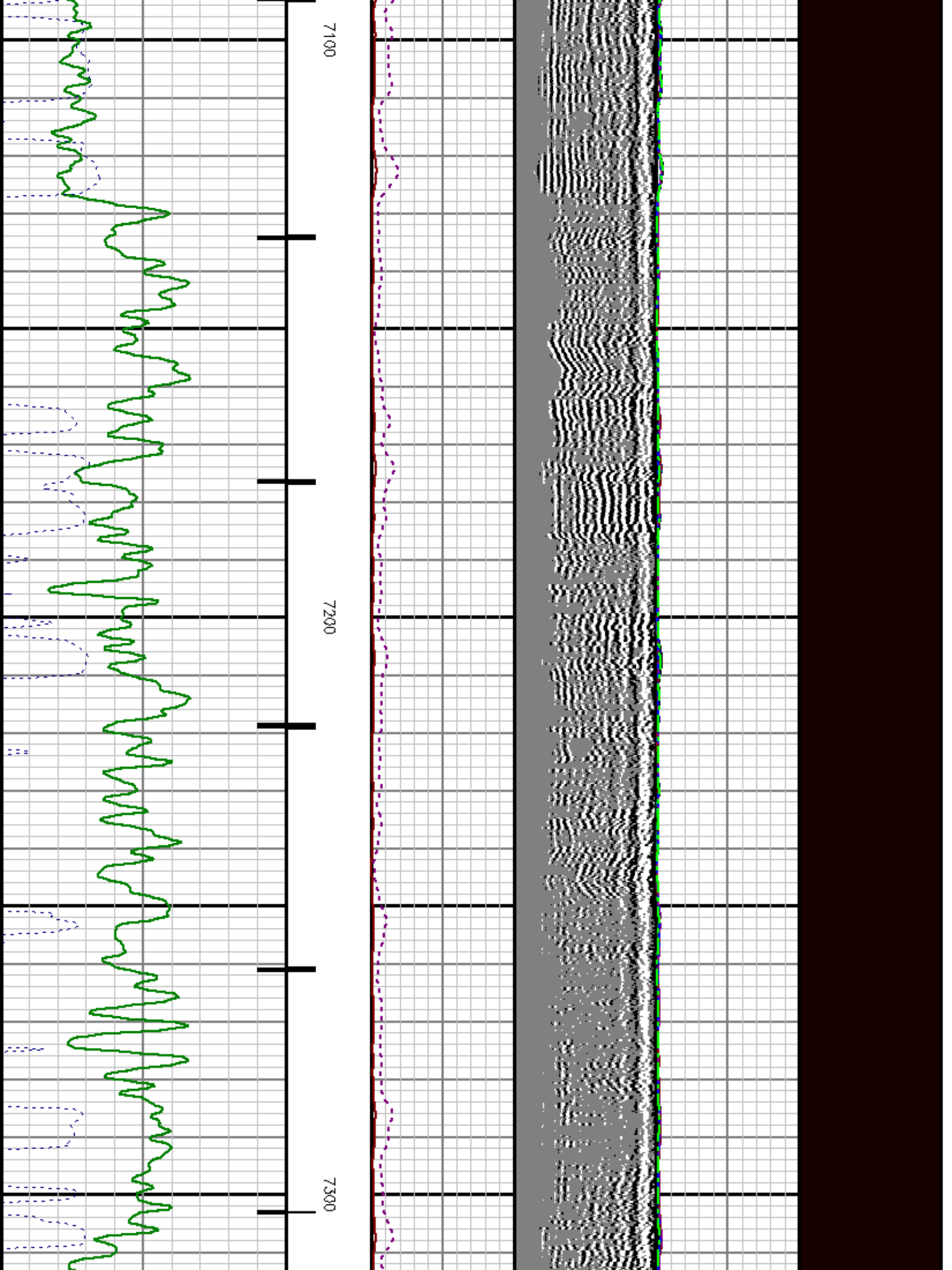


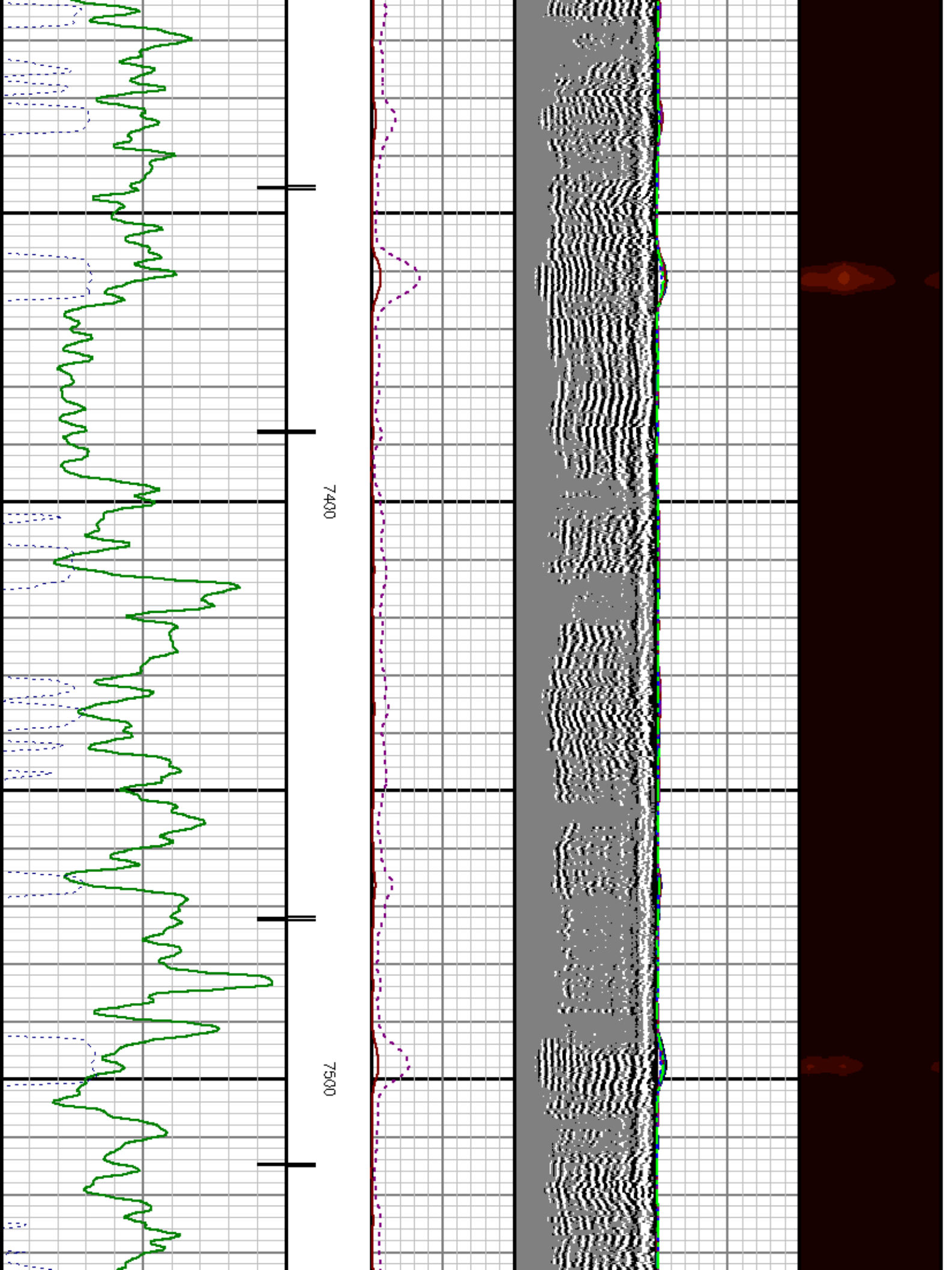


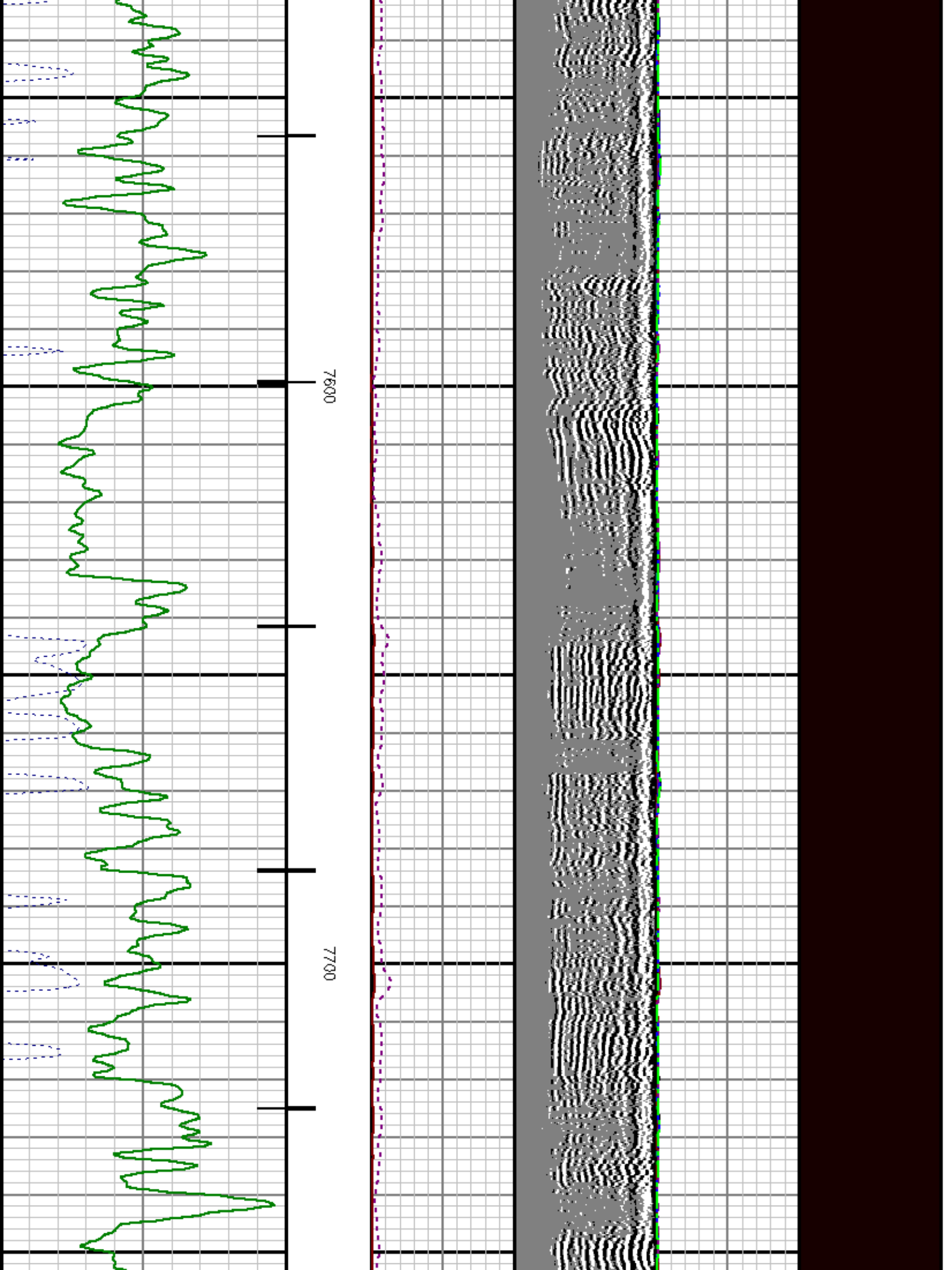


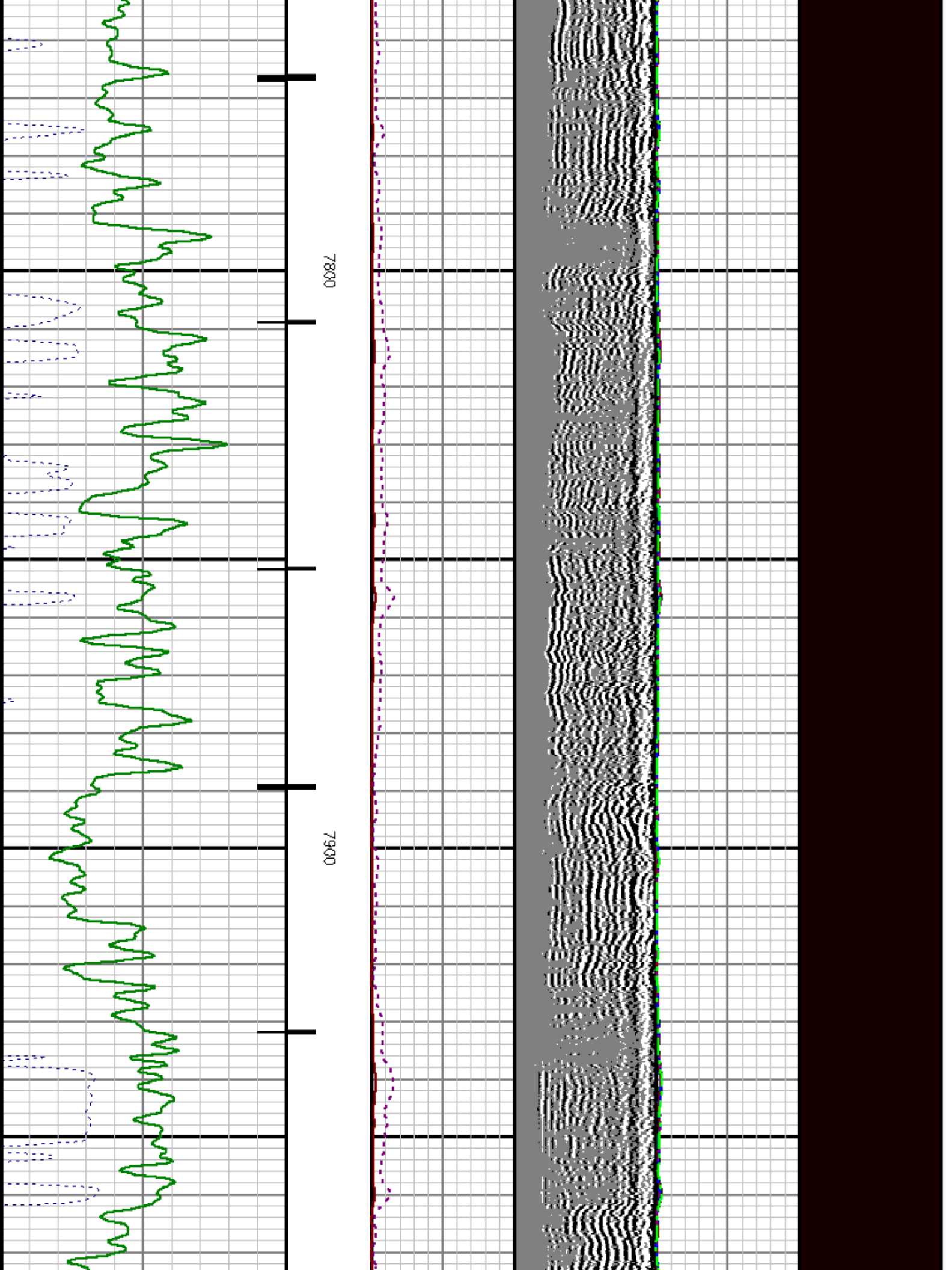


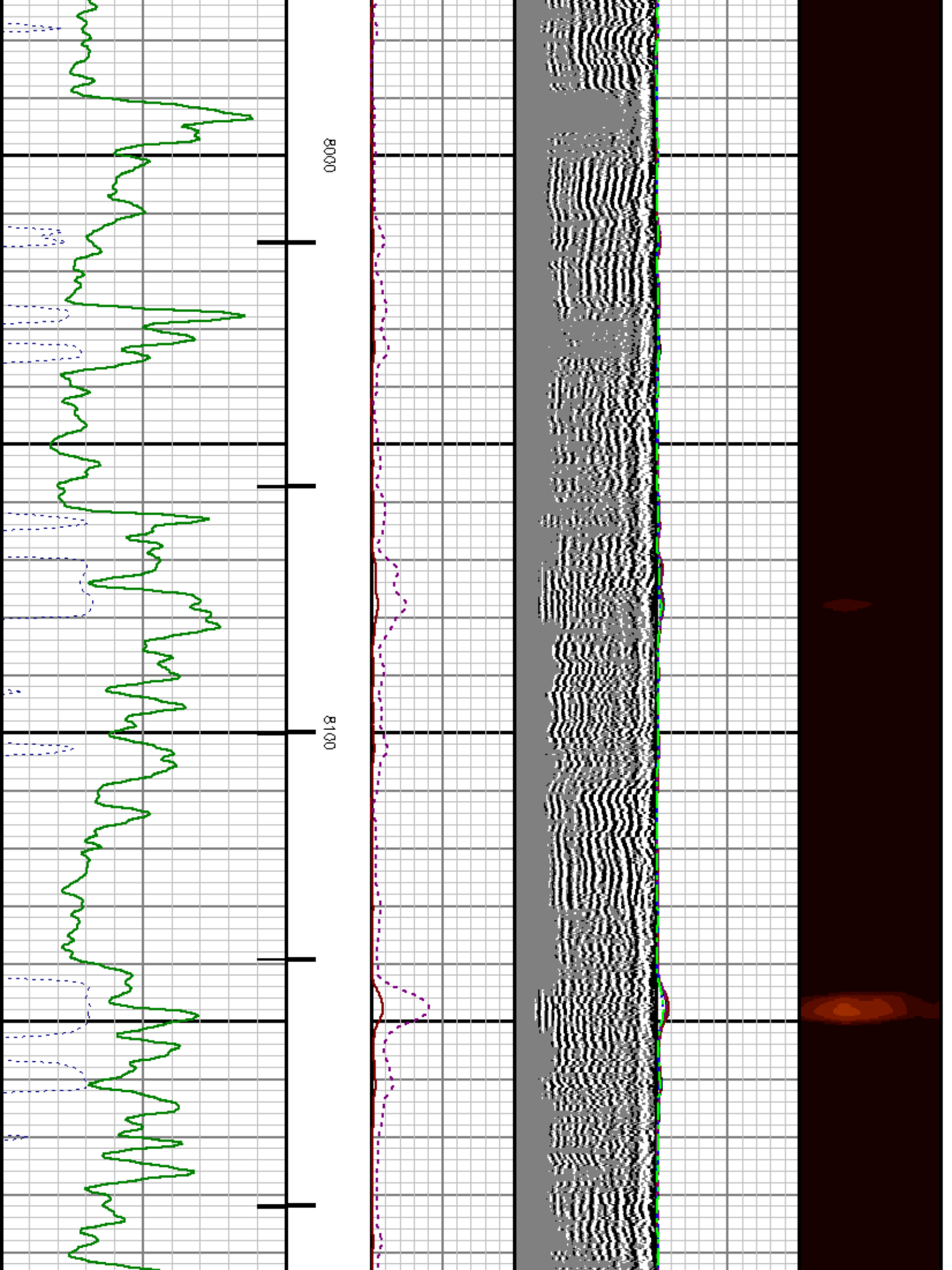


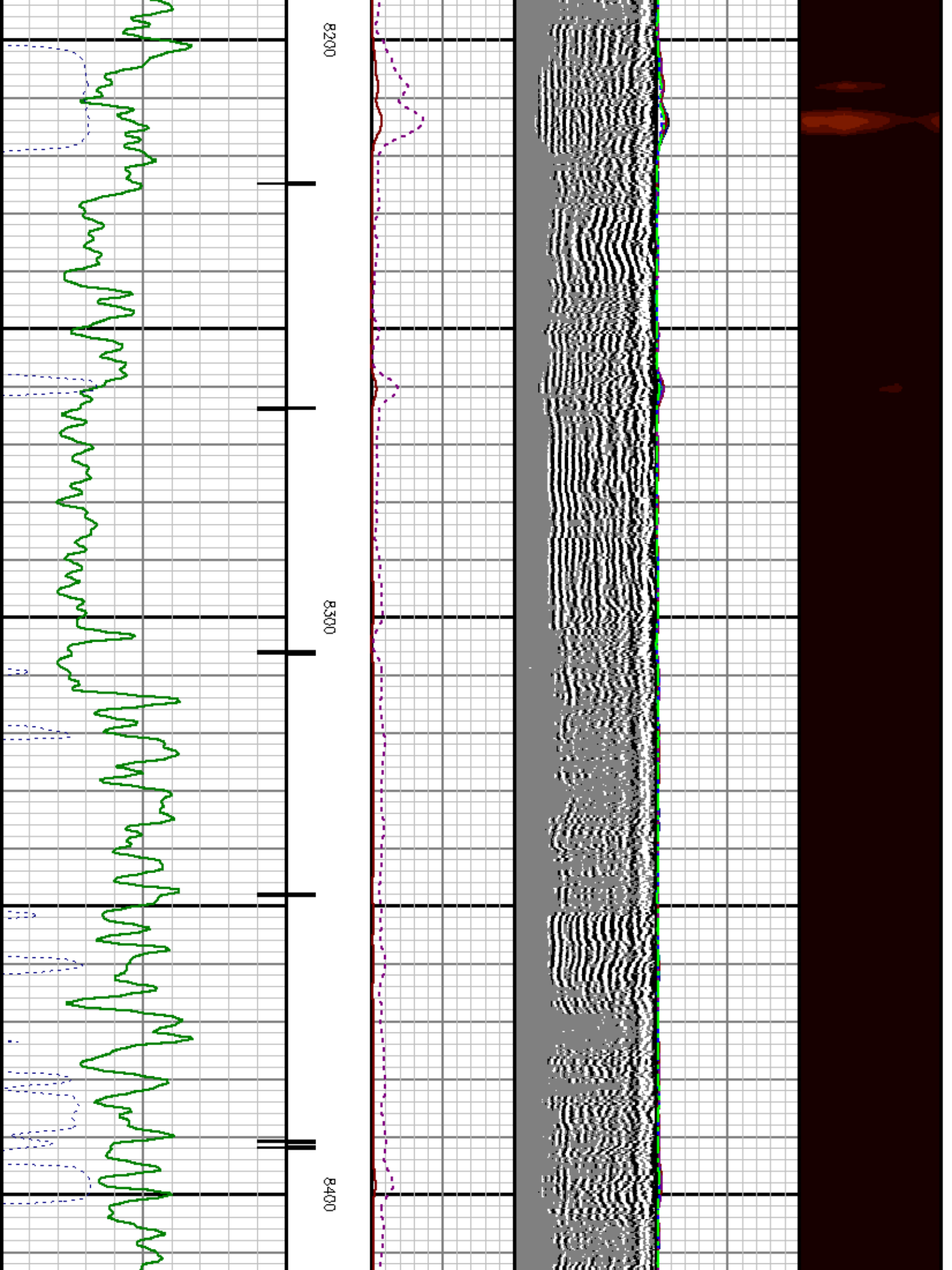


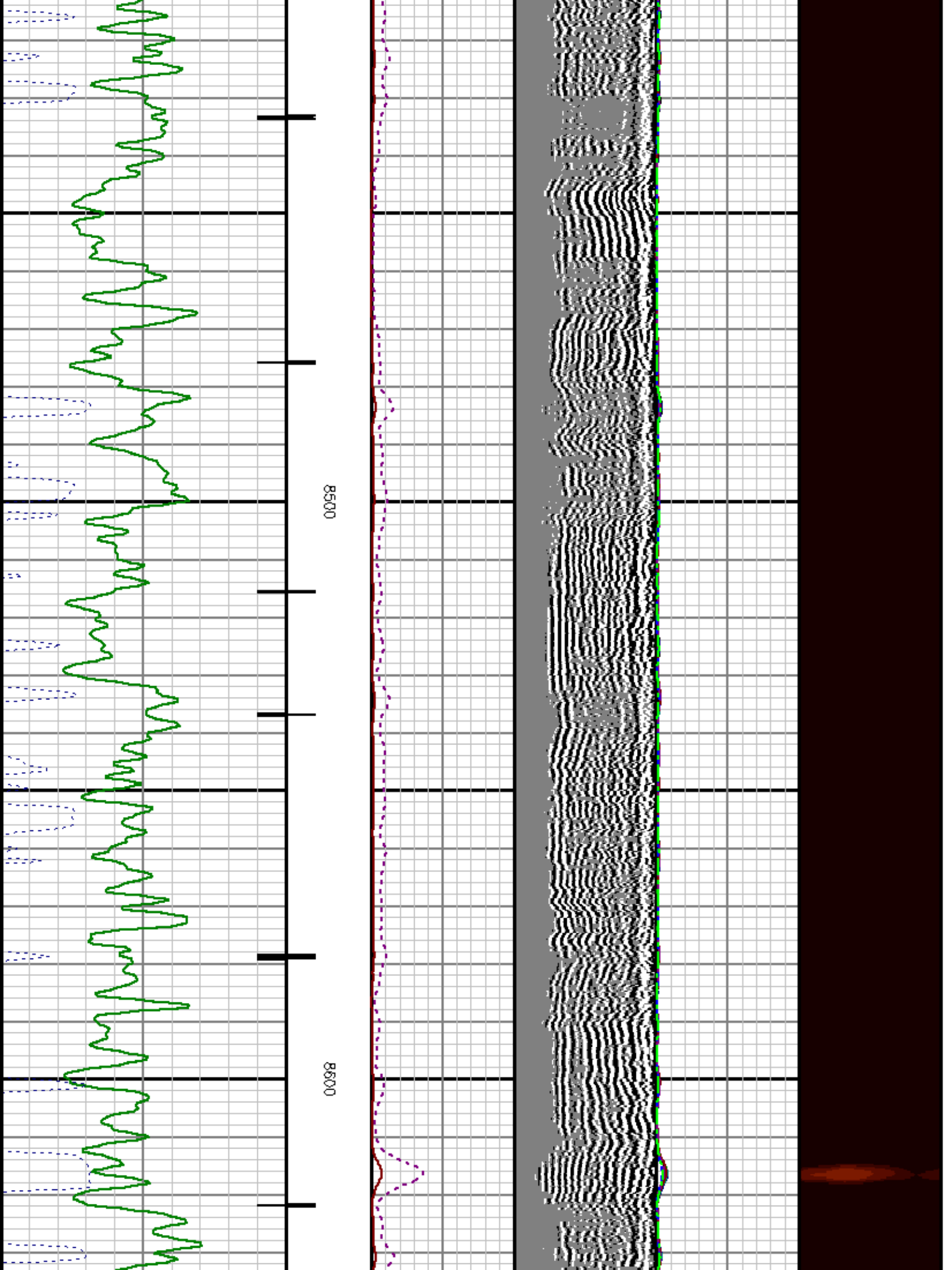


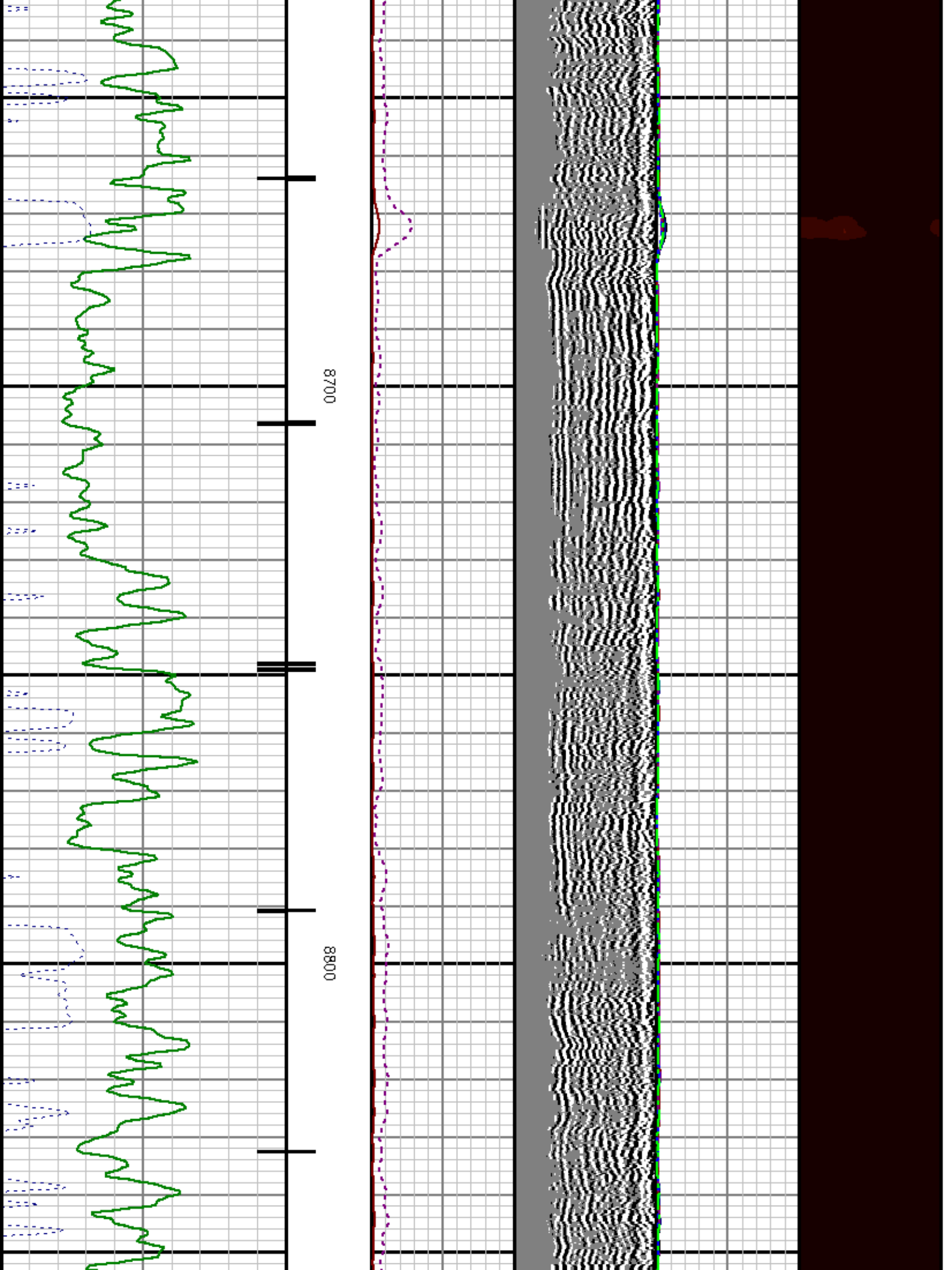


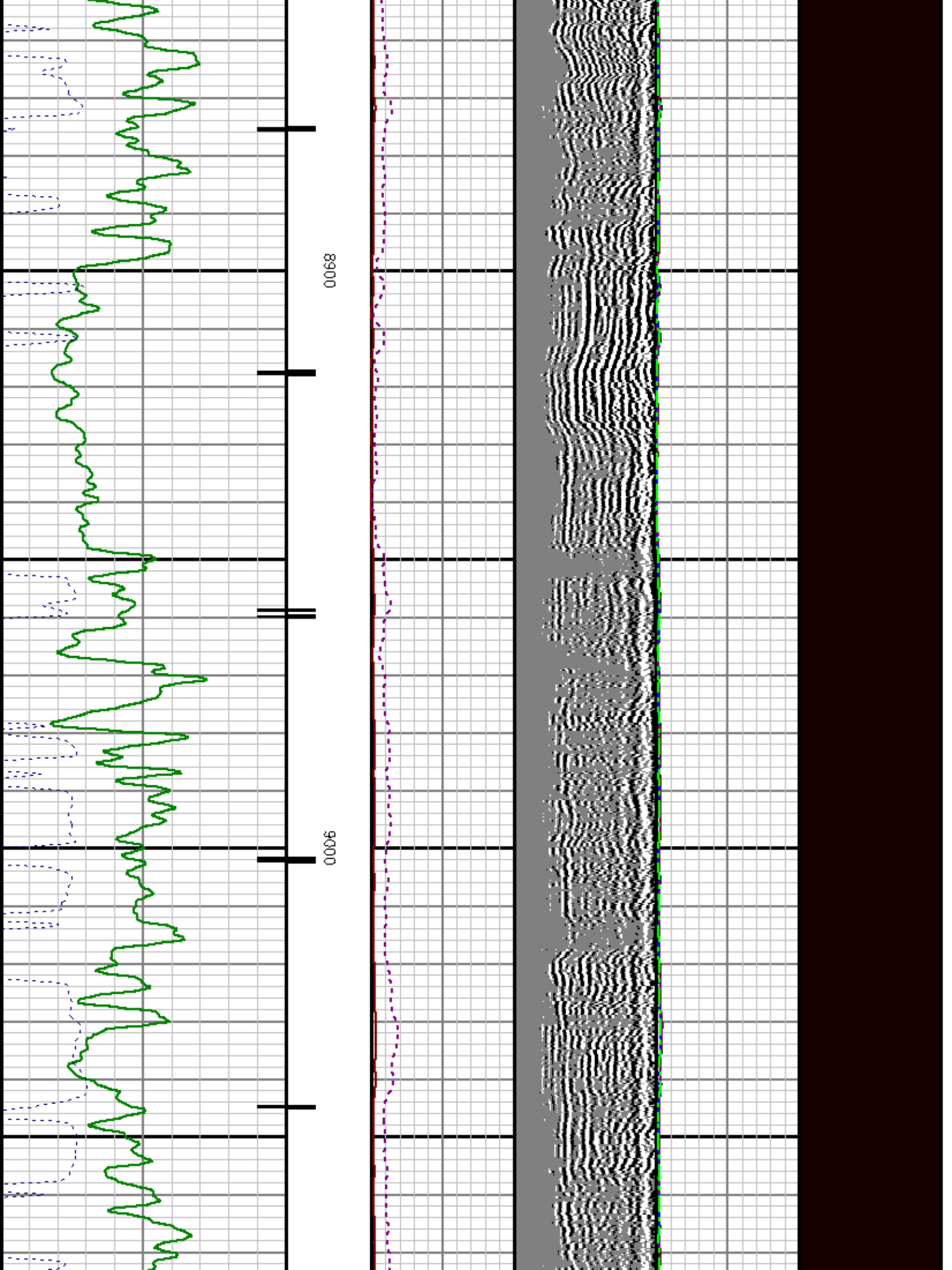


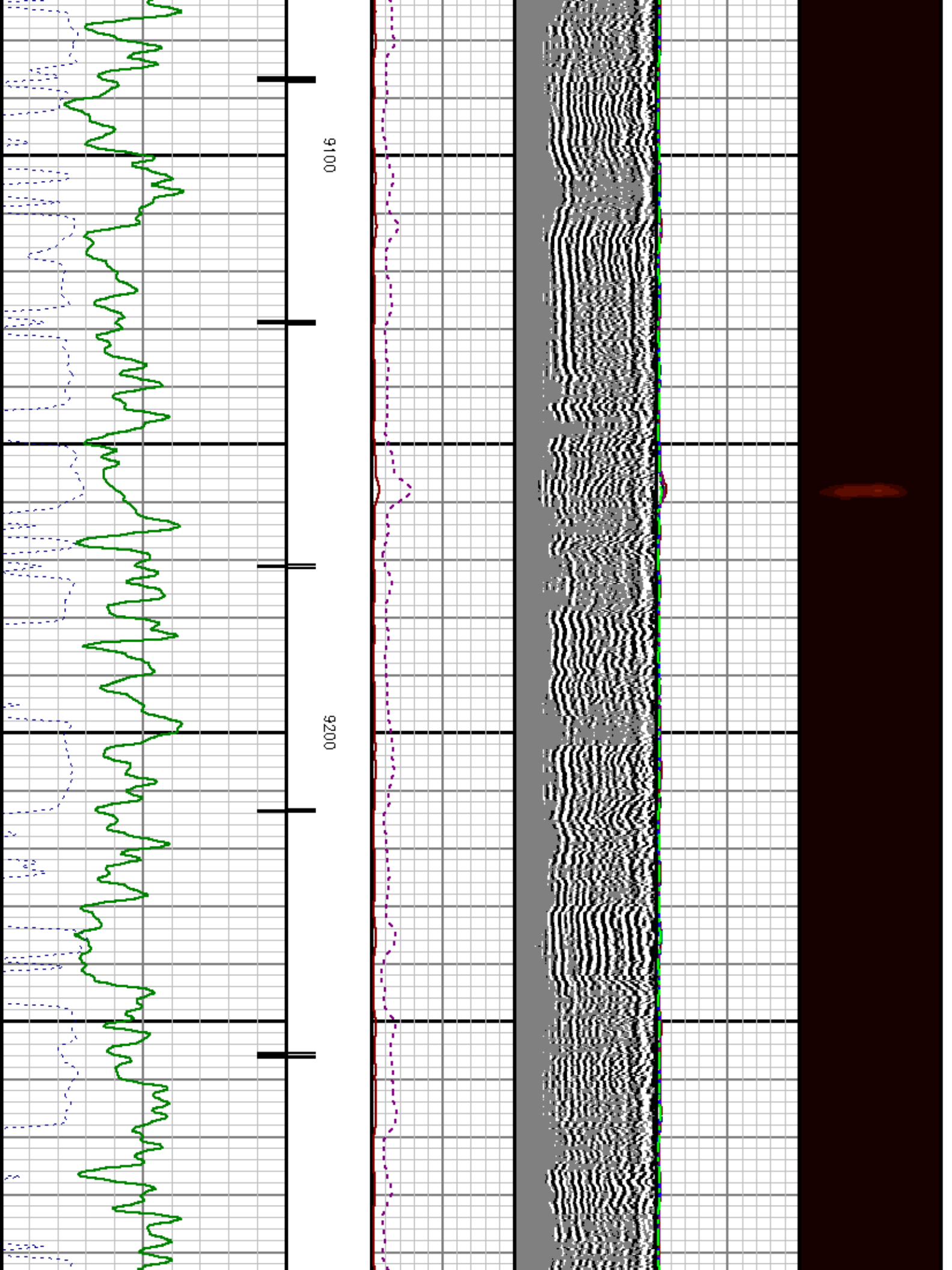


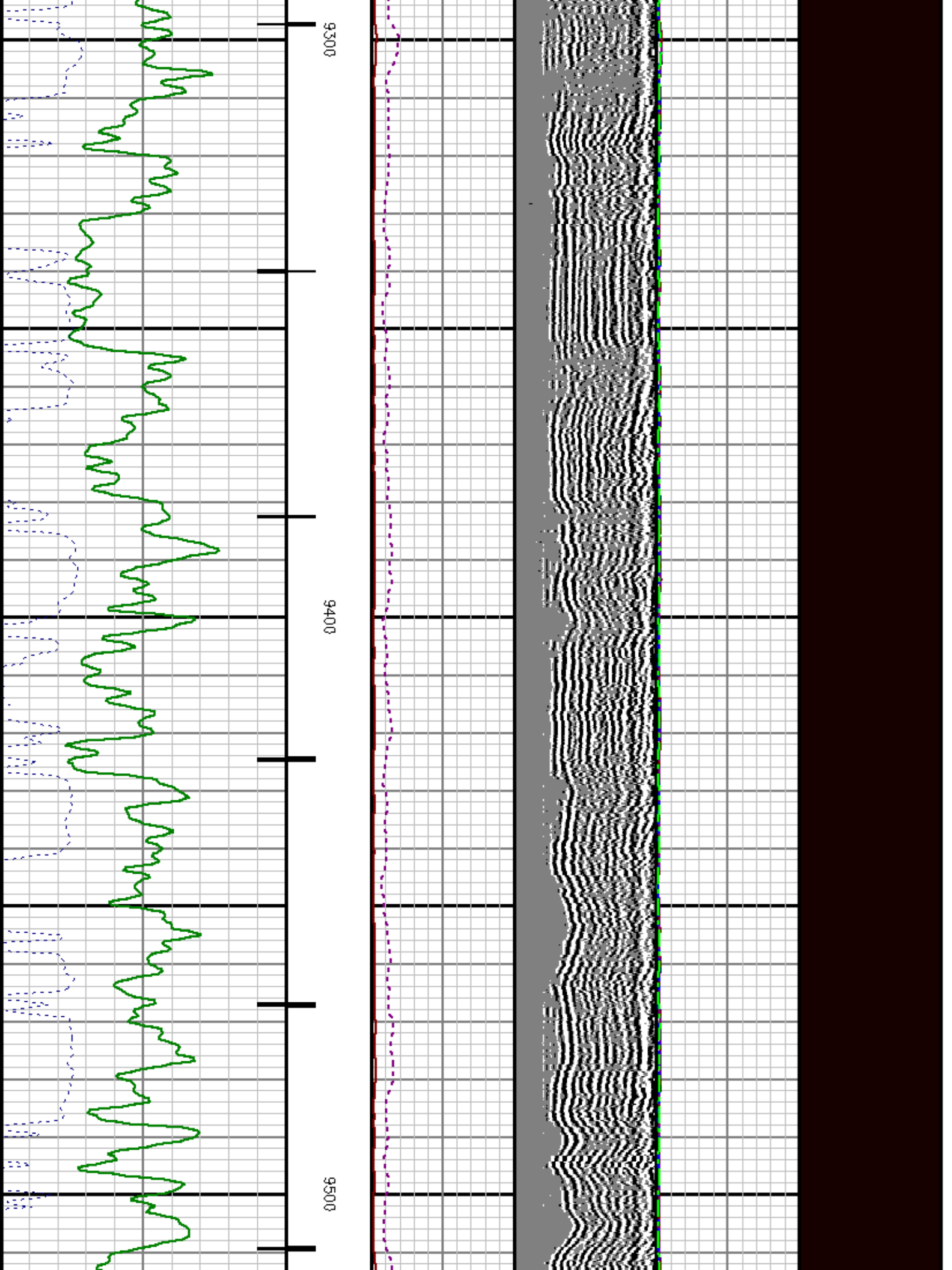


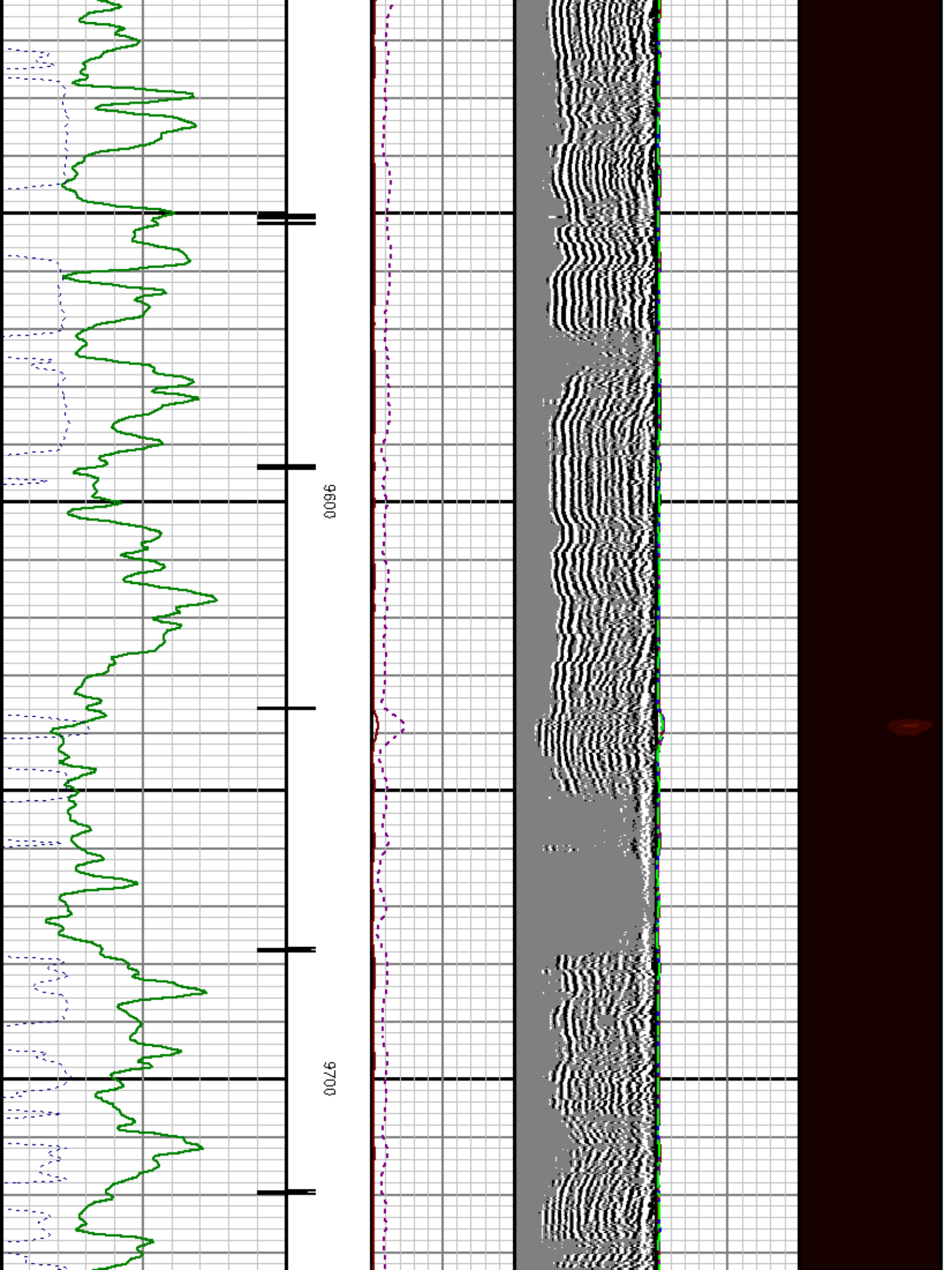


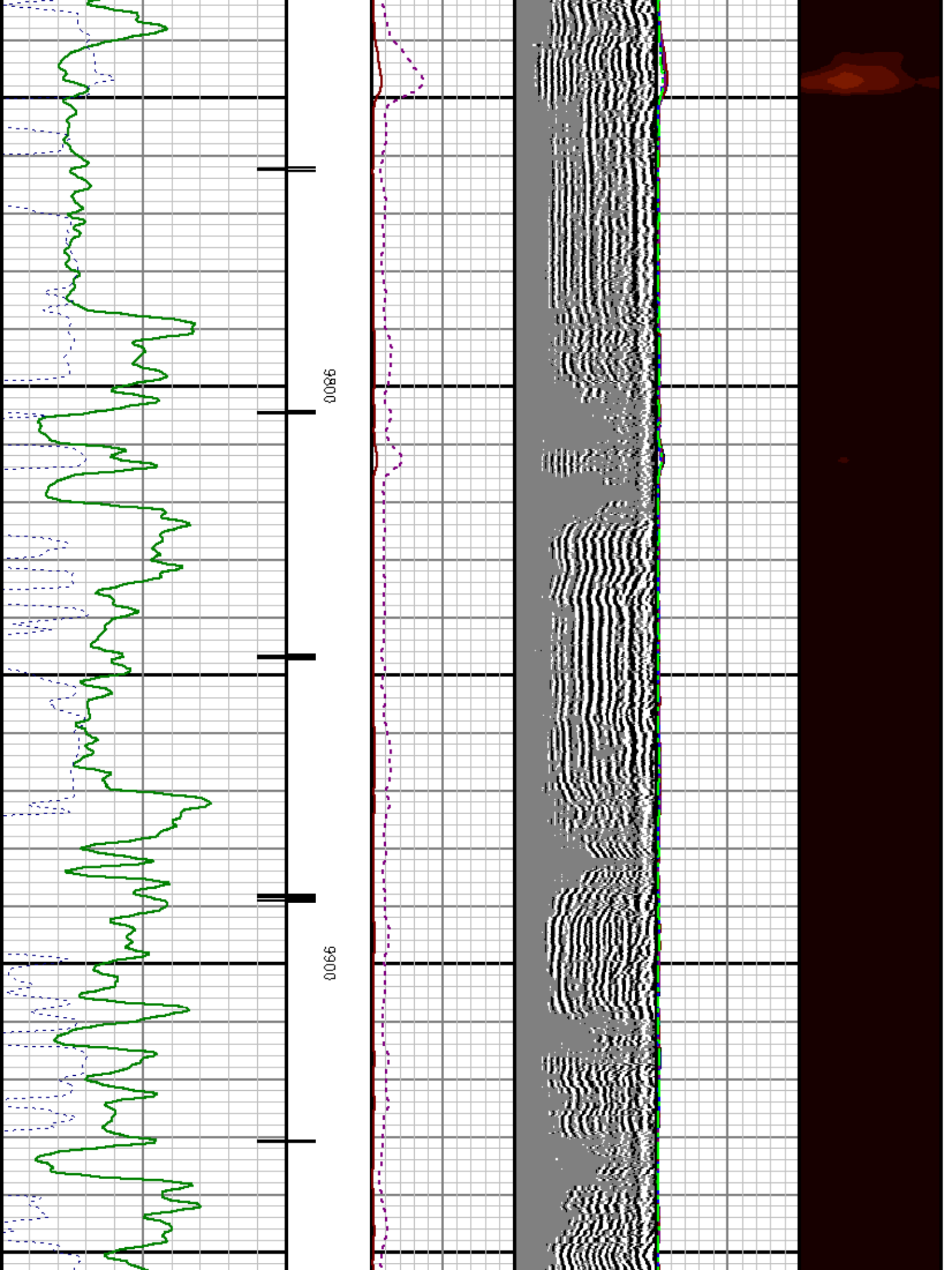


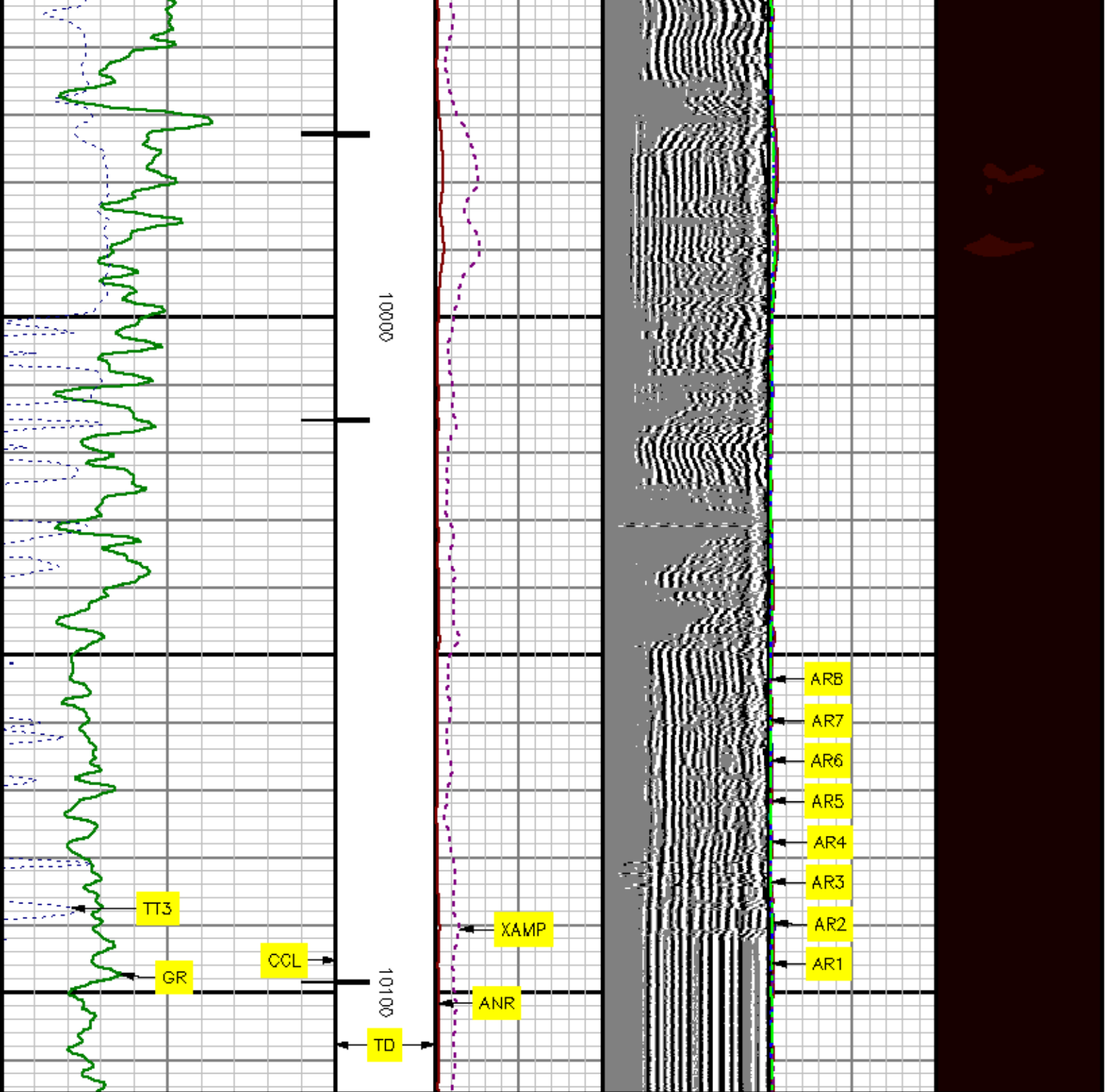










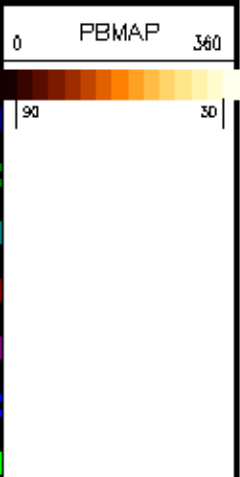


	CCL	MD feet 1:240
	-175 175	
	mv	
0	GR	150
	gAPI	
	TT3	180
280		
	usec	

0	ANR	100
	mv	
0	XAMP	20
	mv	

	Variable Density
200	1200
	us

0	AR1	100
0	AR2	100
0	AR3	100
0	AR4	100
0	AR5	100
0	AR6	100
0	AR7	100
0	AR8	100



REPEAT SECTION

WITH 0 PSI

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
RAL	Amp Gate Start Far	305.470	usec	9854.000	10129.250
RAL	Amp Gate Start Near	192.925	usec	9854.000	10129.250
RAL	Amp Gate Start Radial	191.335	usec	9854.000	10129.250
RAL	Amp Gate Width Far	25.000	usec	9854.000	10129.250
RAL	Amp Gate Width Near	25.000	usec	9854.000	10129.250
RAL	Amp Gate Width Radial	25.000	usec	9854.000	10129.250
RAL	casing od	4.500	inches	9854.000	10129.250
RAL	casing wt	11.600	lbm/ft	9854.000	10129.250
RAL	FB Start Far	291.900	usec	9854.000	10129.250
RAL	FB Start Near	175.391	usec	9854.000	10129.250
RAL	FB Start Radial	175.391	usec	9854.000	10129.250
RAL	FB Thresh Far	15.000	mv	9854.000	10129.250
RAL	FB Thresh Near	10.000	mv	9854.000	10129.250
RAL	FB Thresh Radial	10.000	mv	9854.000	10129.250
RAL	Fluid Travel Time	200.000	usec/ft	9854.000	10128.780

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							

Company : MARATHON OIL COMPANY

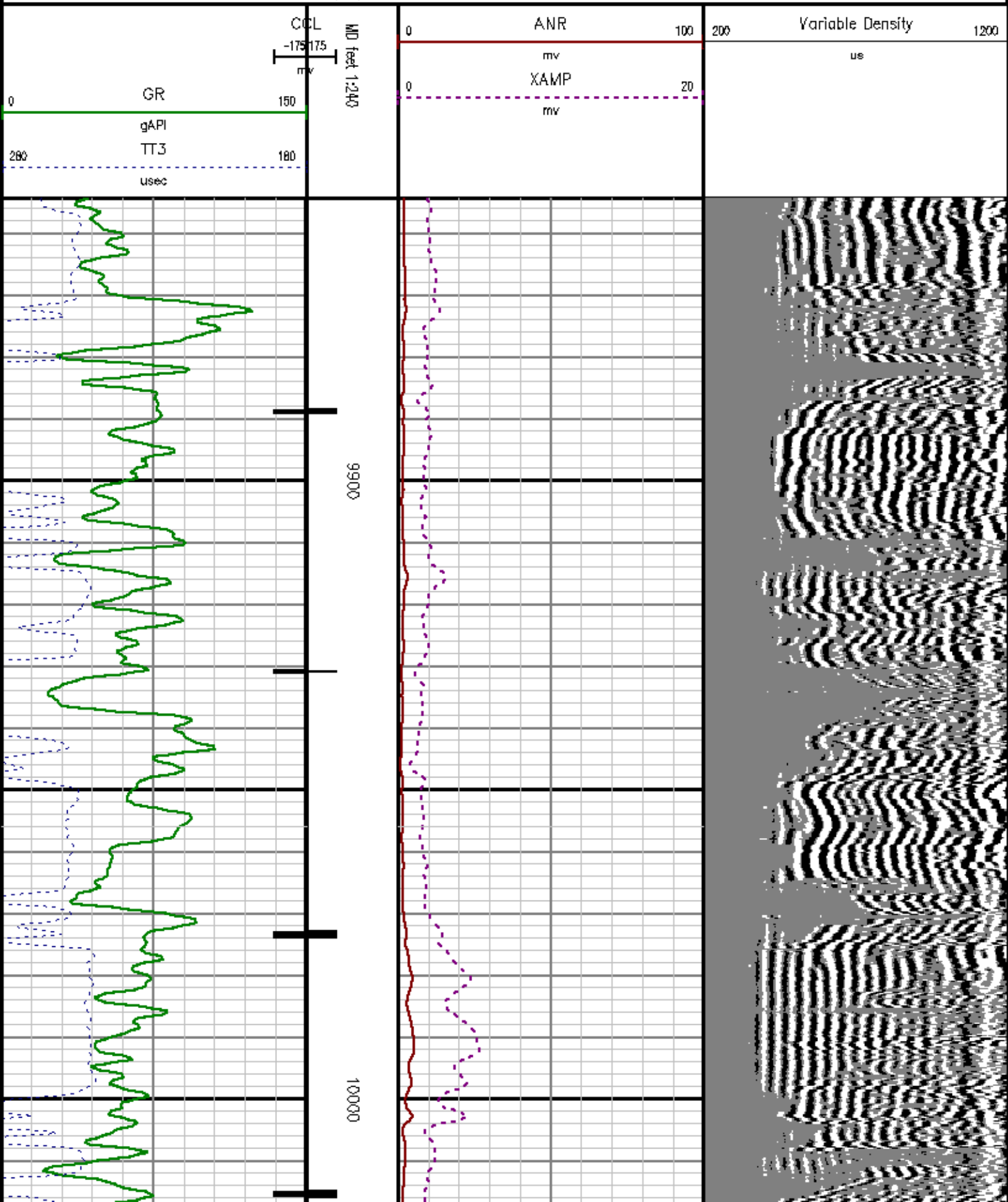
Well : 596-19A-1B

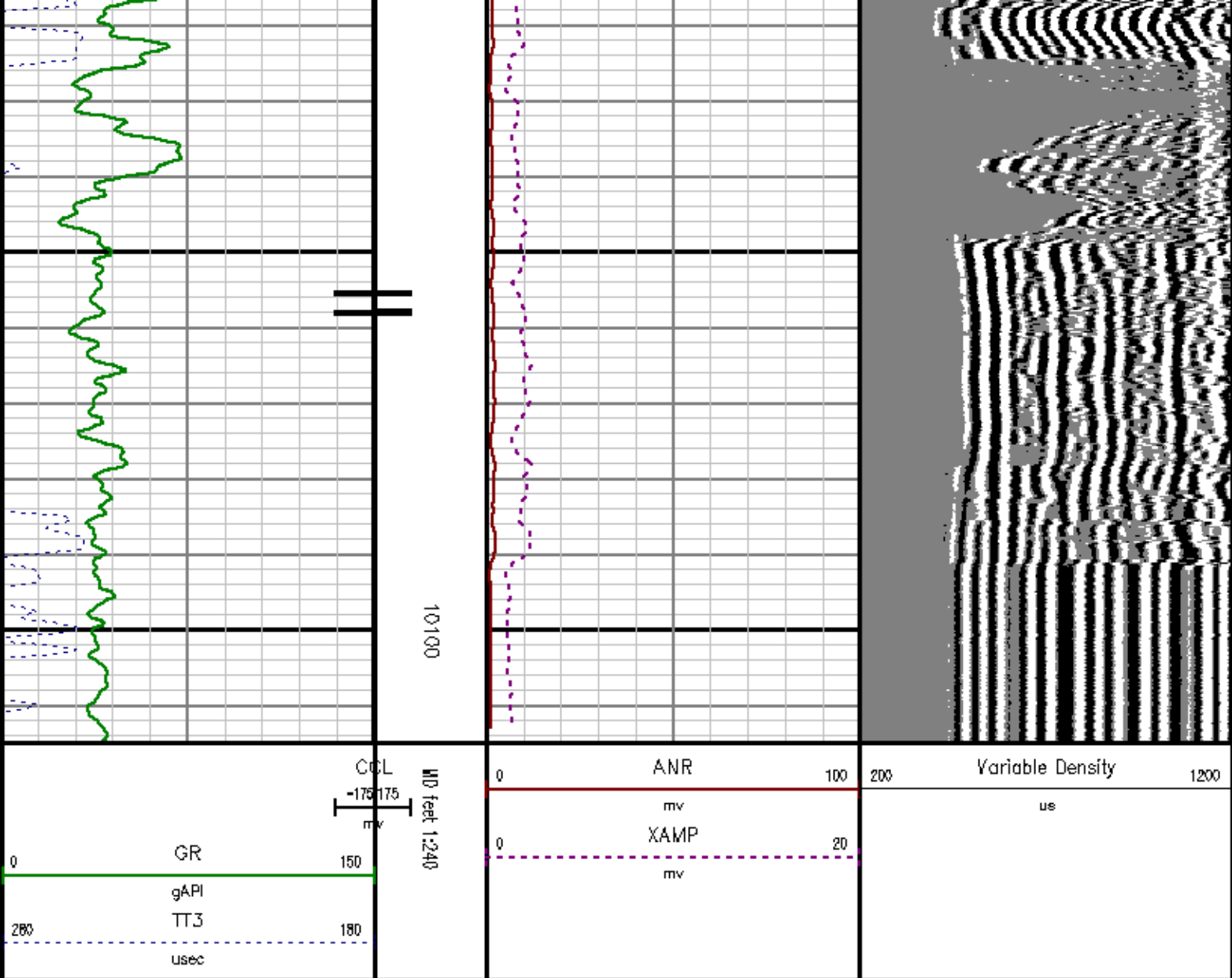
File Name : D:\WELLDATA\RAD19A\REPEAT.XTF

Mode : PlotMgr 5.4.5D4

Interval : 9854.25 - 10115.00 feet UP

Created : 7/16/2009 3:25:19 PM





CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\120JY.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jul 14 16:29:45 2009 TOOL SERIES: 1426XA ASSET: 120 SEQ: JY

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
BA 905	45.87	277.82	0.798	36.58	221.58	185.00

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jul 14 16:31:03 2009 TOOL SERIES: 1426XA ASSET: 120 SEQ: JY

Calibrator #	Background [cps]	Calibrator On [cps]	Multiplicative	Background [api]	Calibrator On [api]	Differential [api]
BA 905	45.87	274.40	0.798	36.58	218.85	182.27

RALSHP

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jul 16 14:39:48 2009 TOOL SERIES: 1426XA ASSET: 1000 SEQ: JY5

Tool Delay [usec]	Tank OD in	Tank Wt lbm/ft	Tank ID in	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
-59.00	5.50	15.50	4.95	CAL Pulse	218	216	30	143	25	-0.336	100.00	0.19
				3 Ft. Receiver	220	216	30	152	25	-0.008	100.00	0.19
				5 Ft. Receiver	328	326	30	262	25	0.428	150.00	0.20
				Radial #1	219	216	30	146	25	-0.036	100.00	0.18
				Radial #2	219	216	30	146	25	0.108	100.00	0.18
				Radial #3	219	216	30	146	25	0.136	100.00	0.18
				Radial #4	220	216	30	146	25	-0.203	100.00	0.19
				Radial #5	220	216	30	146	25	0.153	100.00	0.19
				Radial #6	220	216	30	146	25	0.475	100.00	0.19
				Radial #7	220	216	30	146	25	-0.214	100.00	0.19
				Radial #8	220	216	30	146	25	-0.014	100.00	0.19

RALFLD

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Thu Jul 16 14:40:48 2009 TOOL SERIES: 1426XA ASSET: 1000 SEQ: JY5

Tool Delay [usec]	Casing OD in	Casing Wt lbm/ft	Casing ID in	RECEIVER	Zero Gate Start [usec]	Zero Gate Width [usec]	Zero Amp. [mV]	Full Amp. [mV]	Wellsite Factor	Amp. Ref [mV]
-59.00	4.50	11.60	4.00	CAL Pulse	143	25	-0.033	0.000	1.00	100.000
				3 Ft. Receiver	200	25	-0.264			
				5 Ft. Receiver	317	25	0.251			
				Radial #1	200	25	-0.222			

Radial #2	200	25	-0.151
Radial #3	200	25	-0.304
Radial #4	200	25	-0.330
Radial #5	200	25	-0.141
Radial #6	200	25	-0.239
Radial #7	200	25	-0.232
Radial #8	200	25	-0.186

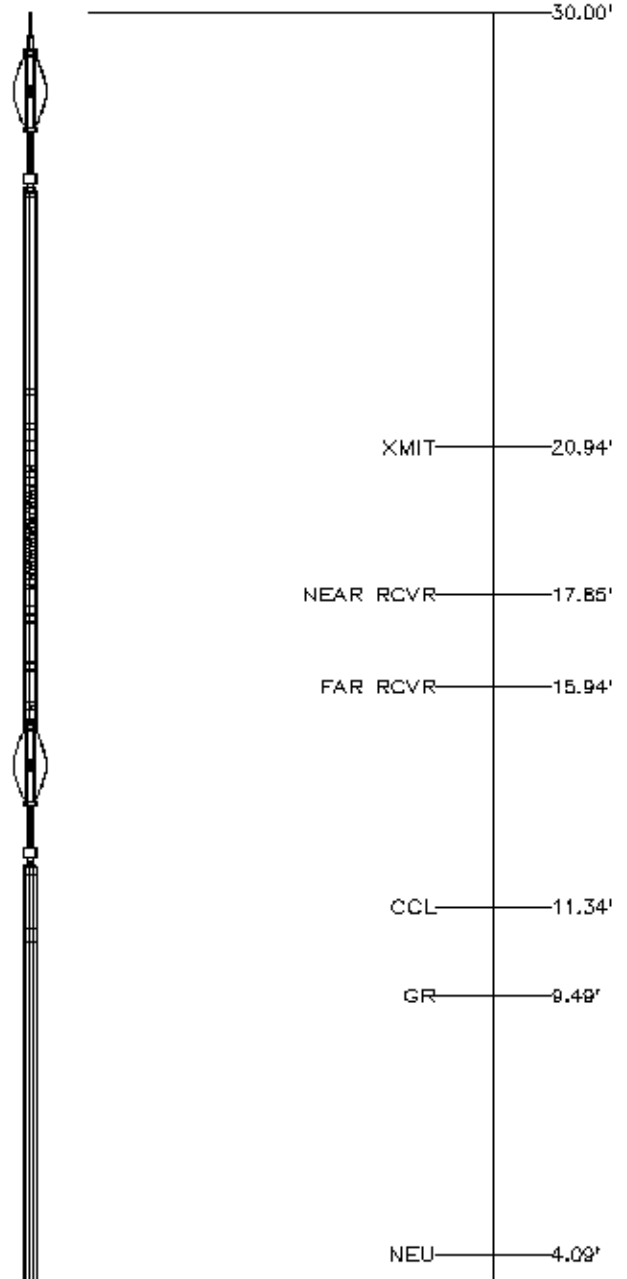
TOOL DIAGRAM

<i>OTA SHORT CABLE HEAD</i>	
<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

PROBE 2 3/4 DUAL RECEIVER RADII (1426XA)

<i>CENTRALIZER</i>	
Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb

Probe GR/CCL/NEU (2459XA)



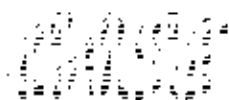
CENTRALIZER

Series	RALCENT
Mnemonic	CENT
Diameter	3.12"
Weight	20.00 lb



0.00'

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

**Baker Atlas**

Company	MARATHON OIL COMPANY	
Well	596-19A-1B	
Field	GRAND VALLEY	
County	GARFIELD	State COLORADO

File No:

API No:

05-045-160020000

Location

1621' FSL & 1285' FWL

SEC 19 TWP 5S RGE 96W

Elevations

KB 8447 ft

DF 8446 ft

GL 8423 ft