



FILE NO:	CH091655
API NO:	05103119740000
COMPANY	WPX ENERGY
WELL	FEDERAL RGU 31-26-198
FIELD	SULPHUR CREEK
COUNTY	RIO BLANCO
STATE	COLORADO

Version	LOCATION:	OTHER SERVICES
26 1S 98W	SHL: 1025' FSL & 663' FEL (23 1S 98W)	RPM
RGU 43-23-198 PA	BHL: 287' FNL & 1863' FEL (26 1S 98W)	
AZTEC 1000	SEC 26 TWP 1S RGE 98W	

PERMANENT DATUM	GL	ELEVATION	6567 FT
LOG MEASURED FROM	KB	25 FT	ABOVE P.D.
DRILL MEAS. FROM	KELLY BUSHING		
		ELEVATIONS:	
		KB	6592 FT
		DF	
		GL	6567 FT

DATE	12-Dec-2014
RUN	1
TRIP	1
SERVICE ORDER	US091655
DEPTH DRILLER	12715 FT
DEPTH LOGGER	12662 FT
BOTTOM LOGGED INTERVAL	12656 FT
TOP LOGGED INTERVAL	25 FT
TIME STARTED	0930
TIME FINISHED	1600
OPERATOR RIG TIME	6.5
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
LOGGED CEMENT TOP	87 FT
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 FMIN
MAX. RECORDED TEMP.	287 DEGF
REFERENCE LOG	NONE
REFERENCE LOG DATE	NA
EQUIP. NO.	4271
LOCATION	GRAND JCT
RECORDED BY	FLOYD RENEAU
WITNESSED BY	DUSTIN WELSH

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
30 IN	25 FT	80 FT
13.5 IN	80 FT	3898 FT
7.875 IN	3898 FT	12715 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
18 IN			25 FT	80 FT
9.625 IN			25 FT	3898 FT
4.5 IN	11.6 LB/F	P-110	25 FT	12715 FT

CEMENTING DATA								
JOB TYPE	FROM	TO	TIME	DATE	CEMENT TYPE	DENSITY	VOLUME	ADDITIVES

PERFORATION RECORD						
PERFORATION TYPE	POSITION	PHASING	SPACING	DENSITY	FROM	TO

REMARKS
RUN 1 TRIP 1: 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 client's request.

Top CCL mark is 8' above ground level (height of flange on production tree).

The amount of linear shift is -6

Logged with Zero PSI at wellhead.

BHT = 287 degF

SJ = 7410'-7433'

Thanks you for choosing Baker-Hughes.

#### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	VDL	1426XA	10218495	CENT
1	1	GR/CCL	2459XA	10417457	CENT

### PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Tue Dec 16 16:49:04 2014

#### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\091655\012e02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 3987.500 ft BOTTOM DEPTH: 12677.750 ft

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"

#### RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

#### ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	188	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	178	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

#### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\091655\012g02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 22.500 ft BOTTOM DEPTH: 5821.000 ft

## SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	light (2a)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"

## RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

## ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	188	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
				"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-69	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

## CURVE DESCRIPTION REPORT

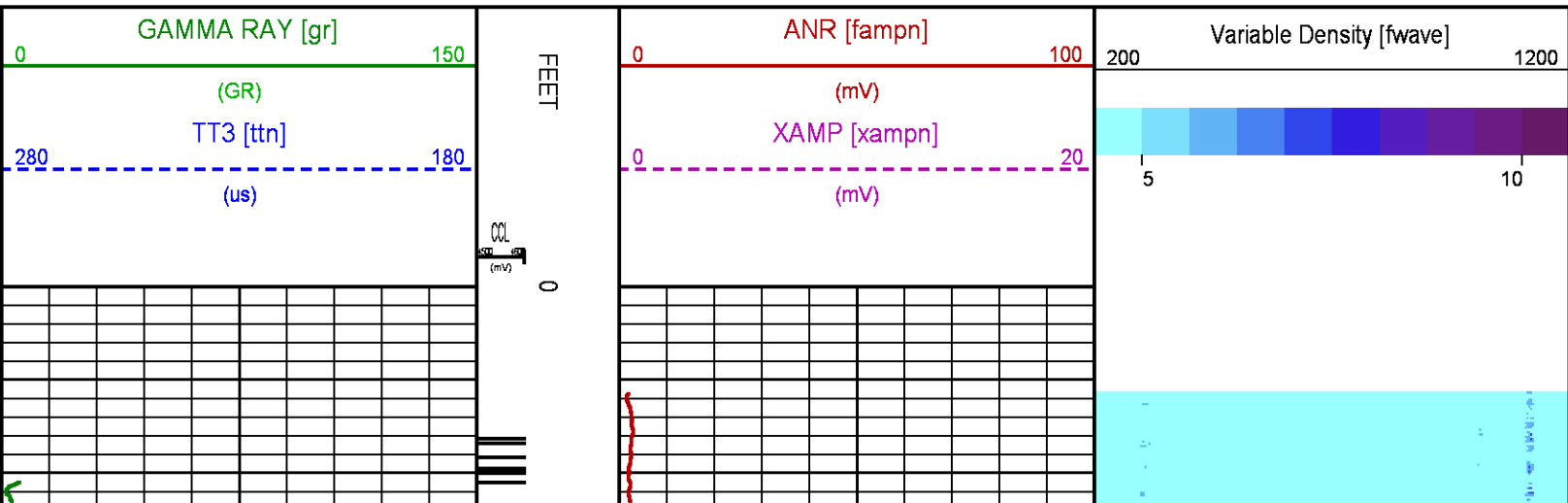
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 12 10:49:17 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 12 10:49:17 2014	FAR WAVE FORM
F1:GR	Dec 12 10:49:17 2014	GAMMA RAY
F1:TTN	Dec 12 10:49:17 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

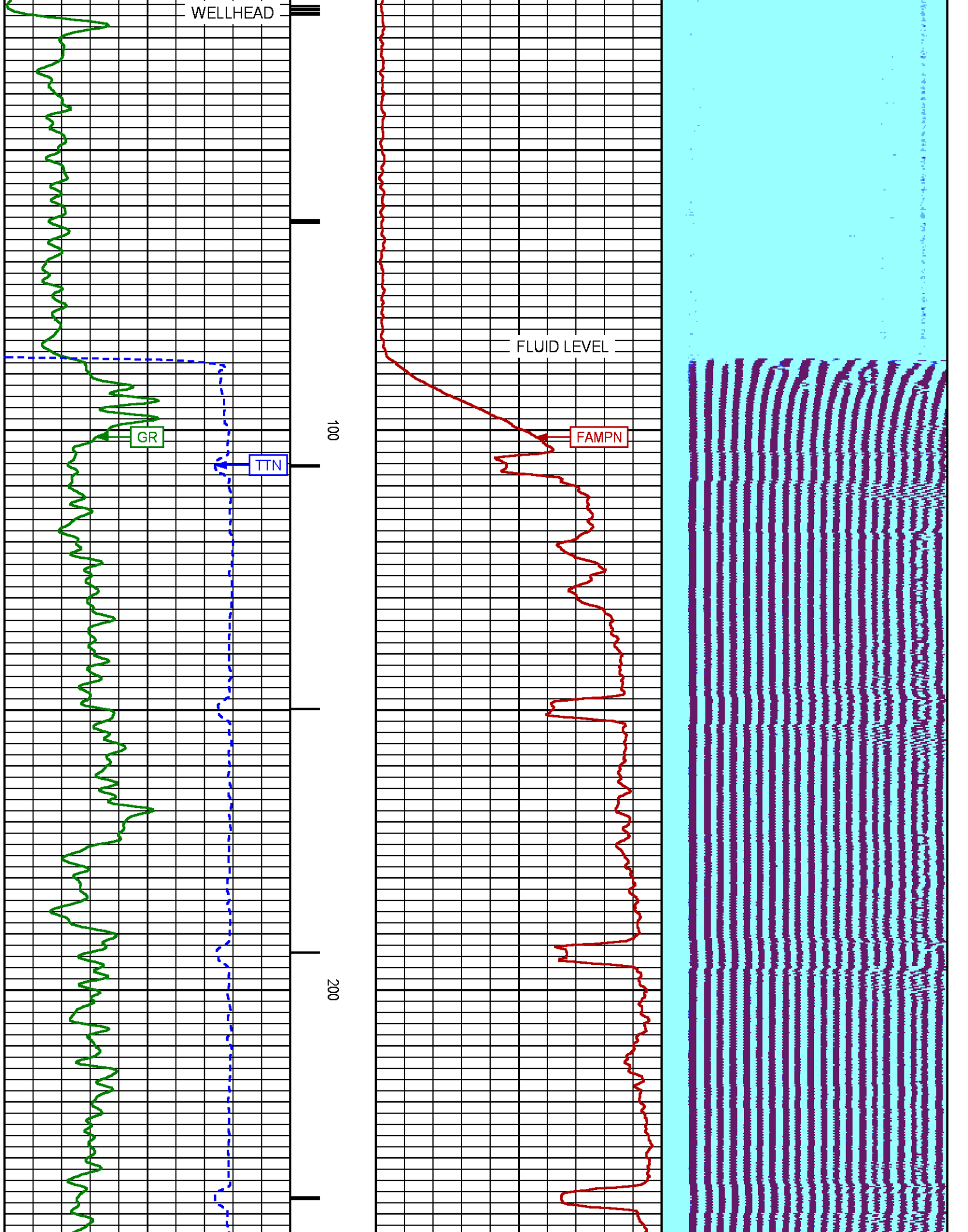
## CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

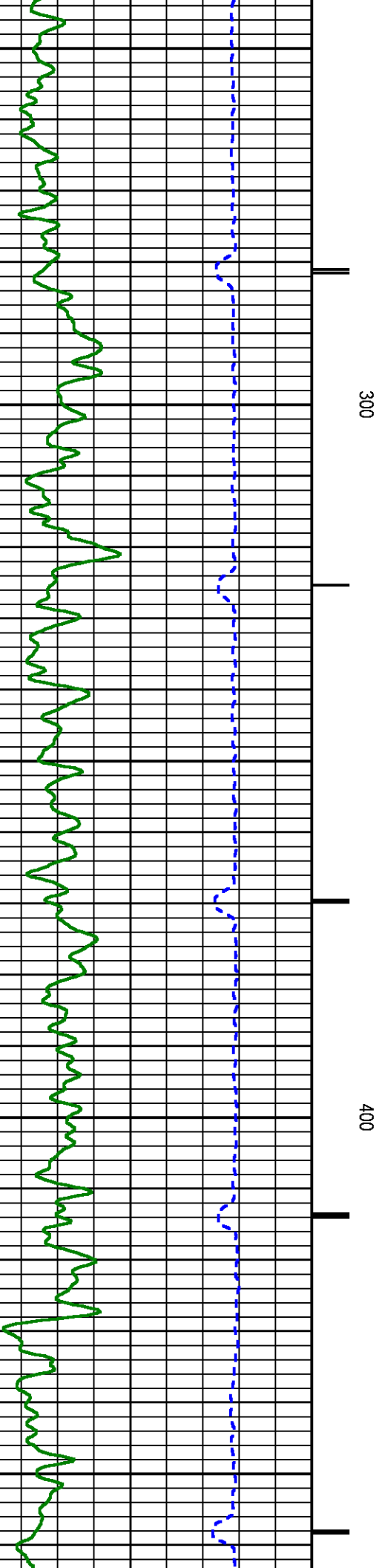
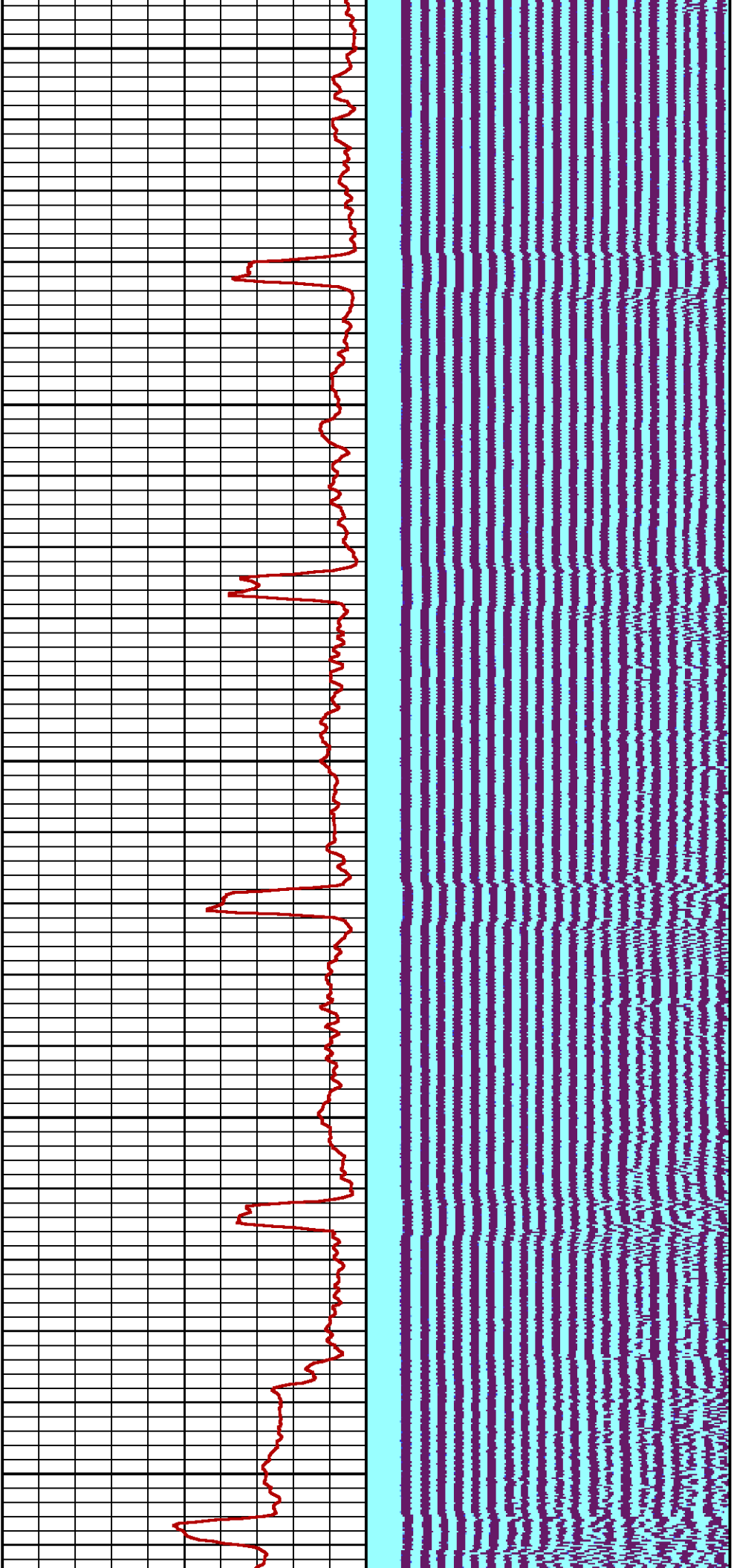
**Presentation** : BHUGHES-06627:C:\dat1a\091655\31CBL\_PRIMARY.fvpdf [5"/100' Scale]  
**Plot Interval** : 0 - 12672 Feet

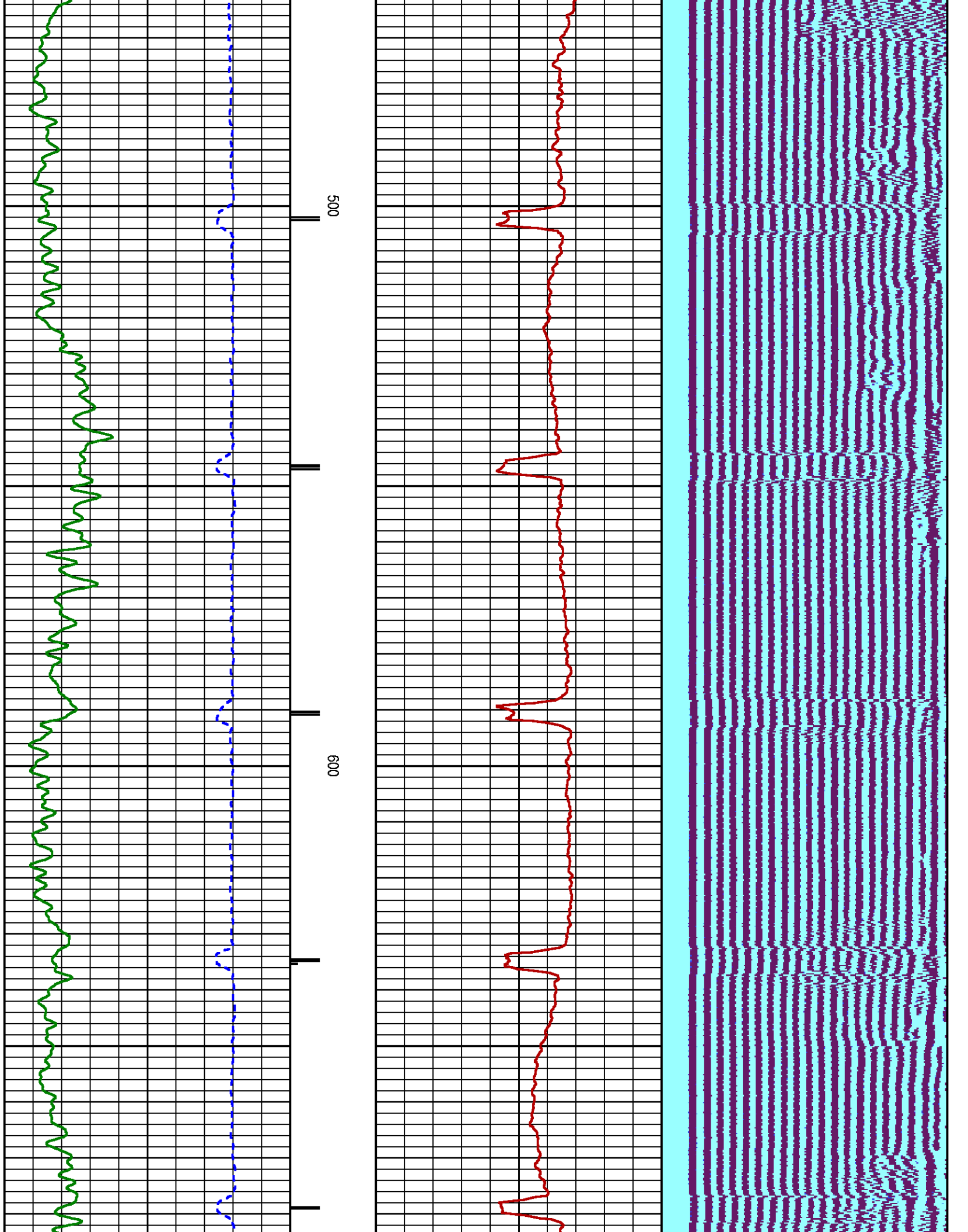
**Data File 1** : F1 : BHUGHES-06627:C:\dat1a\091655\31CBL\_MAIN.xtf  
**Created On** : Dec 12 10:49:17 2014  
**Company** : WPX ENERGY  
**Well** : FEDERAL RGU 444-23-198  
**Field** : SULPHUR CREEK  
**File Interval** : 10.25 - 12672 Feet  
**OCT** : n012e

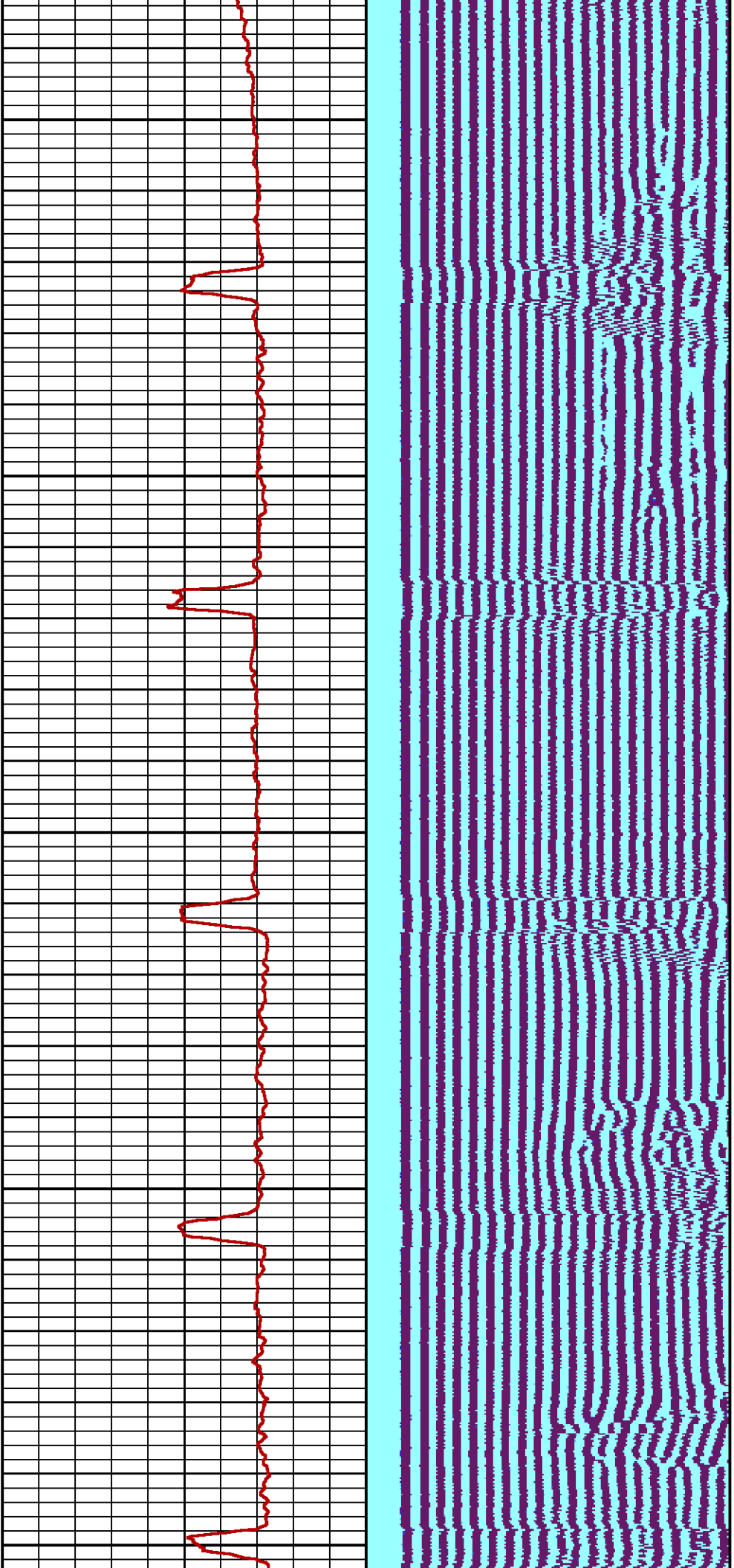








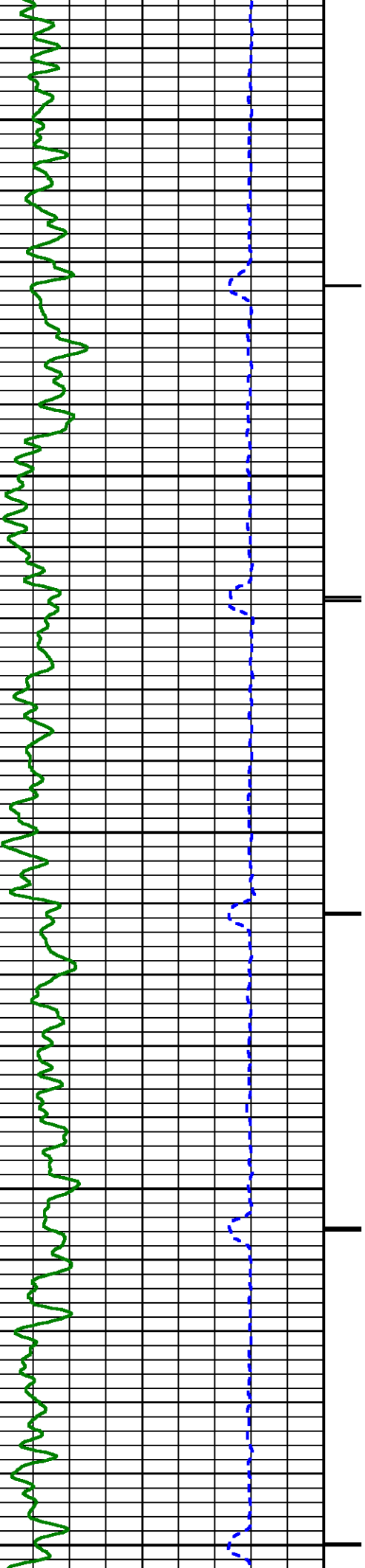


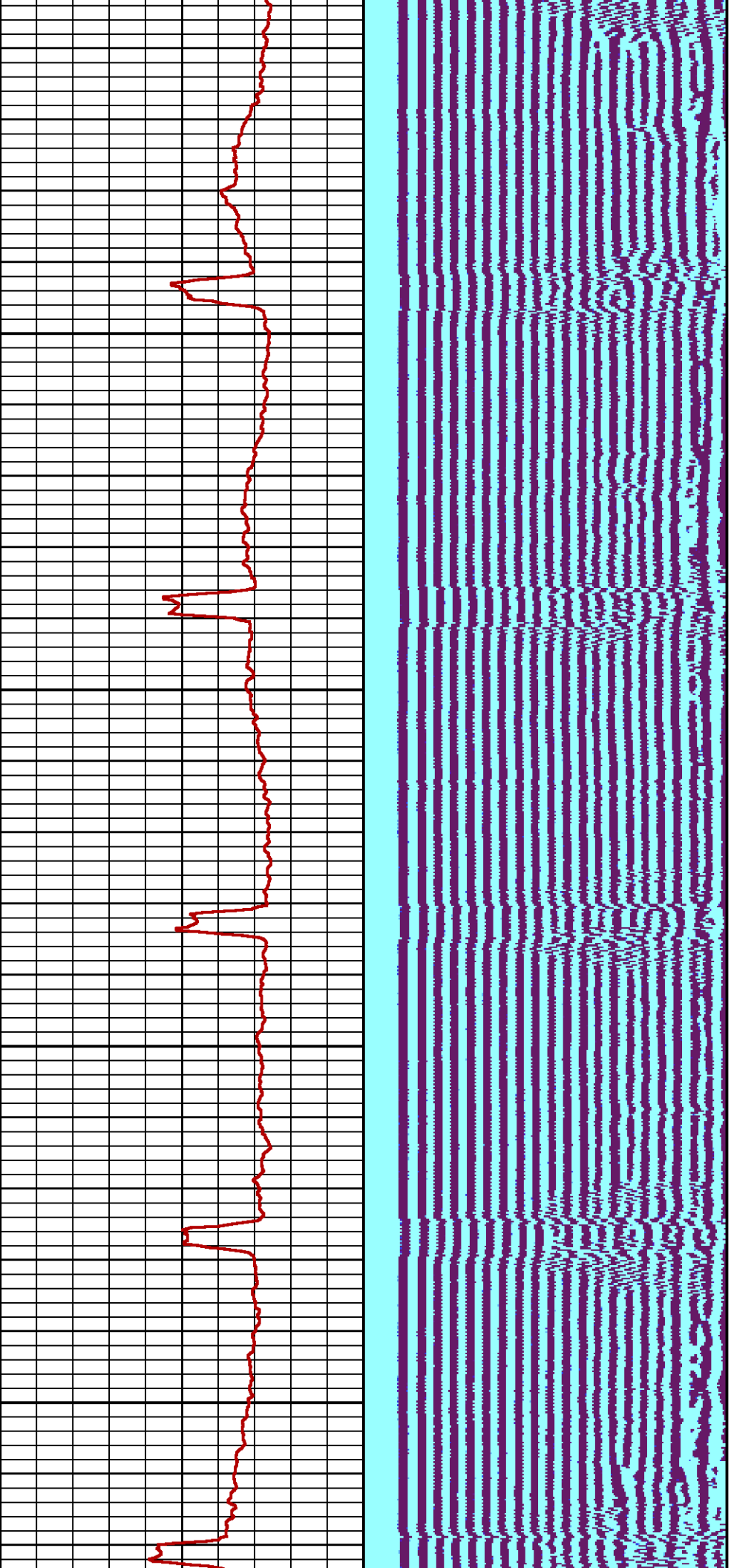


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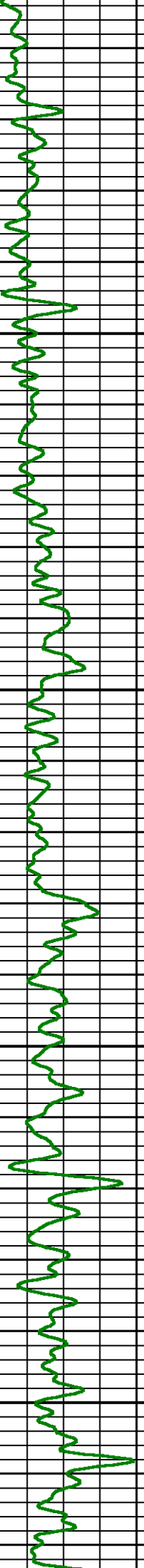
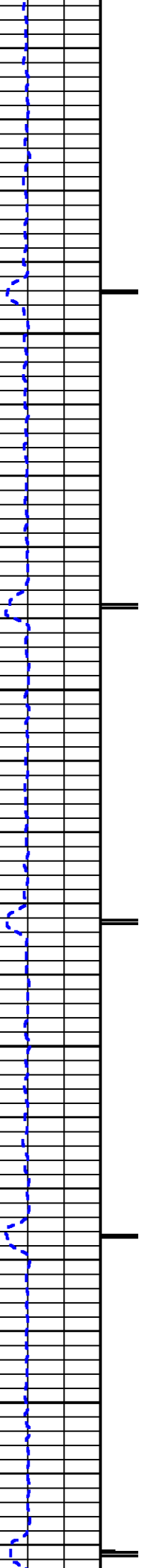
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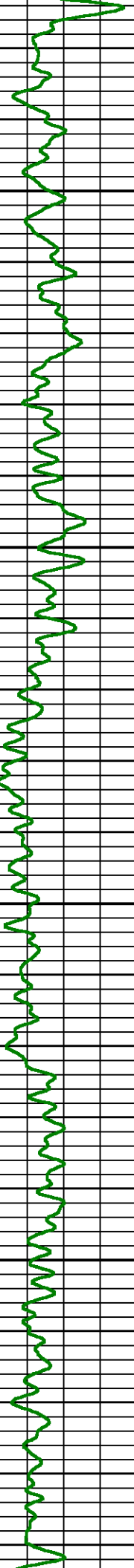
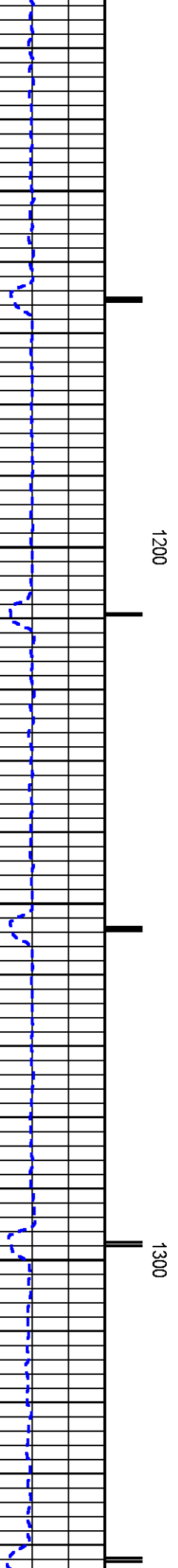
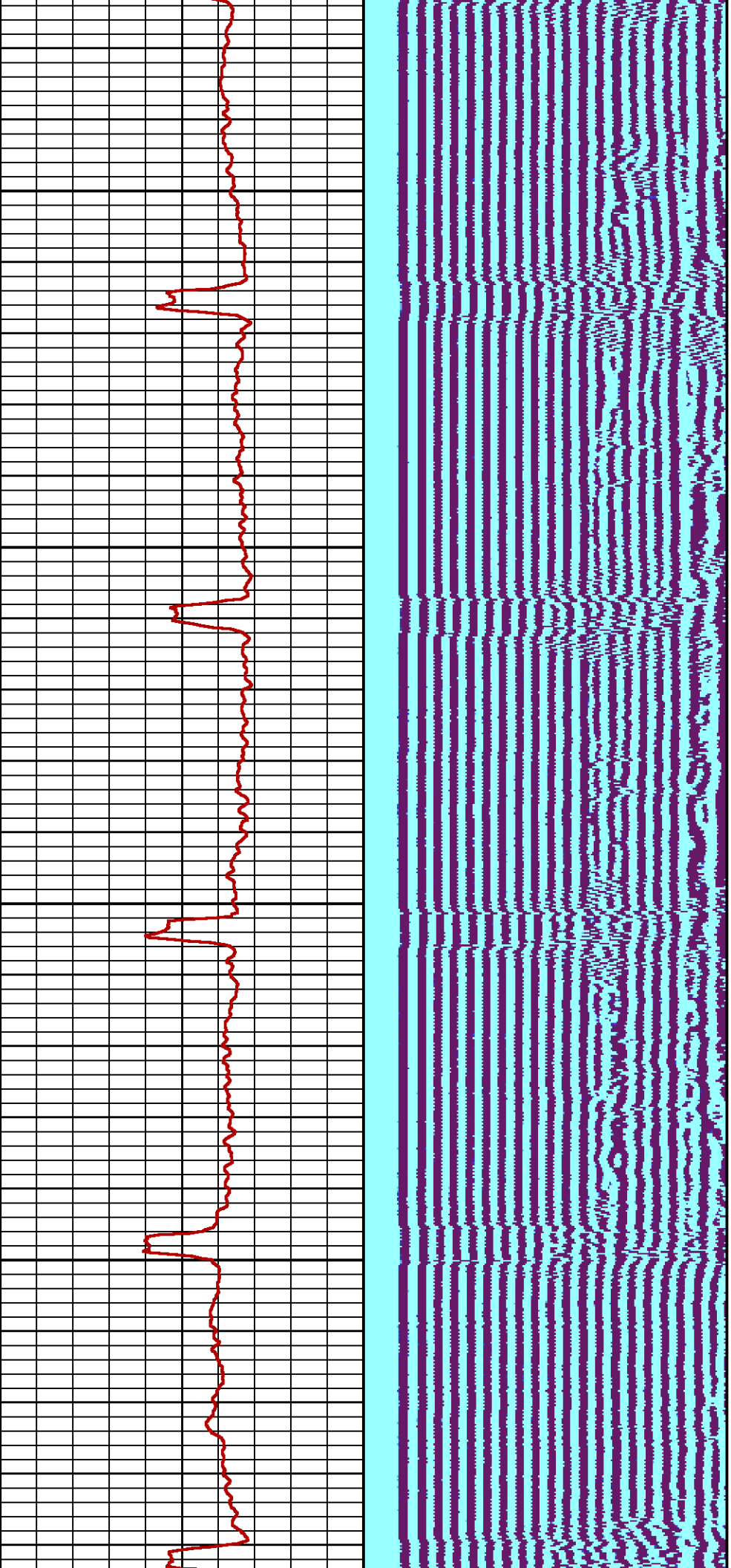


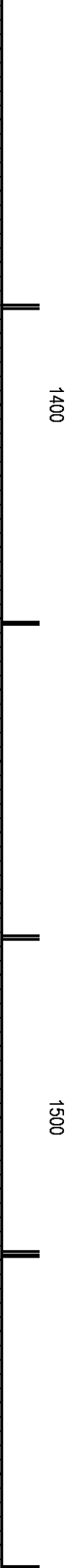
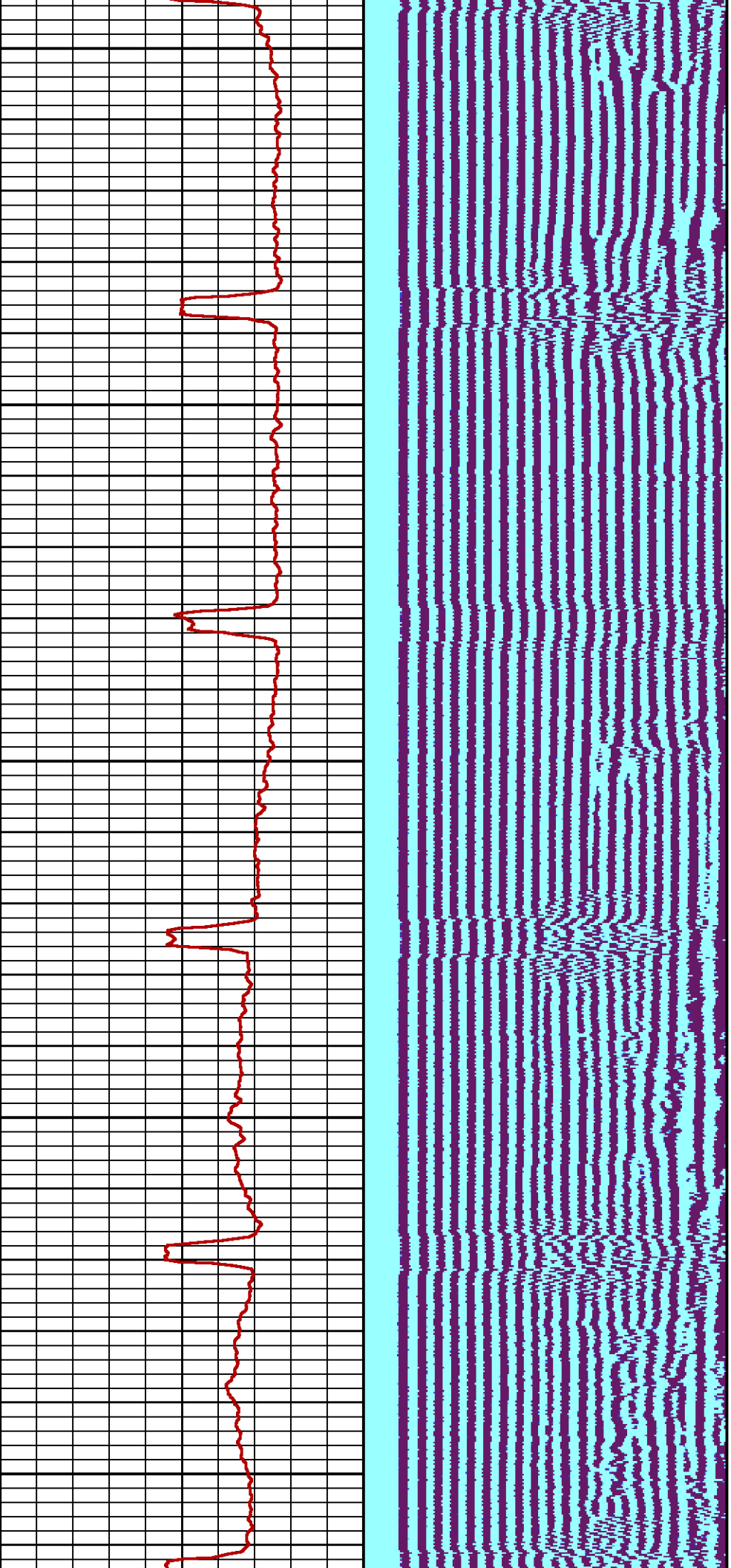


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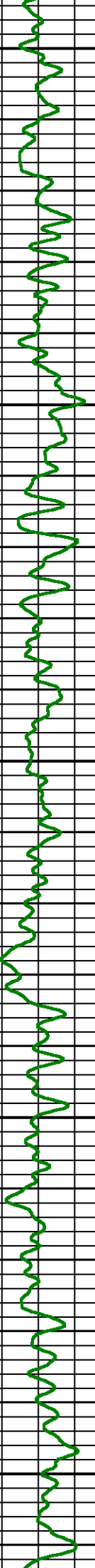




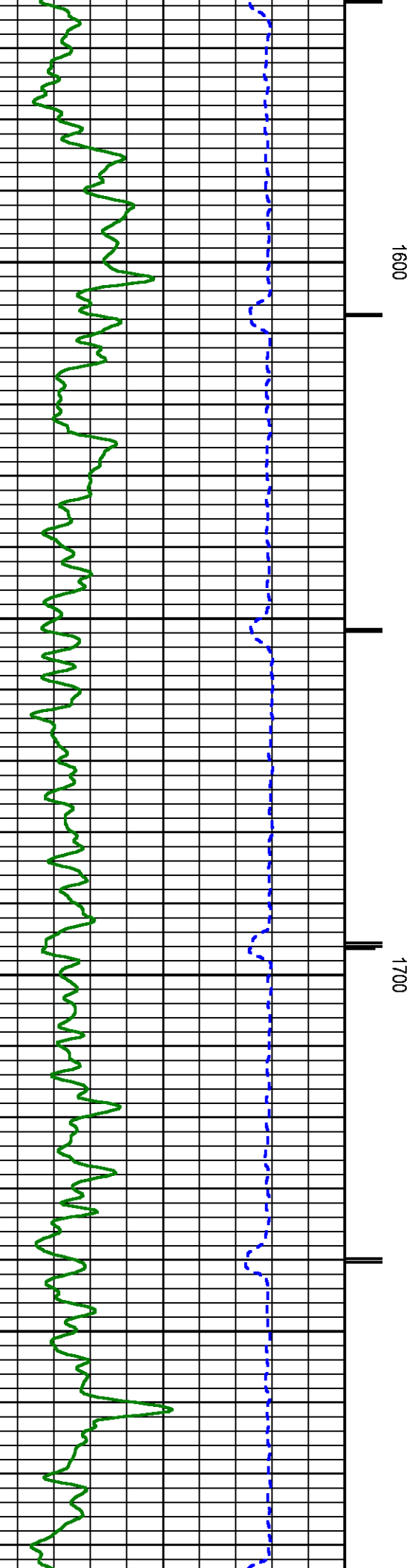
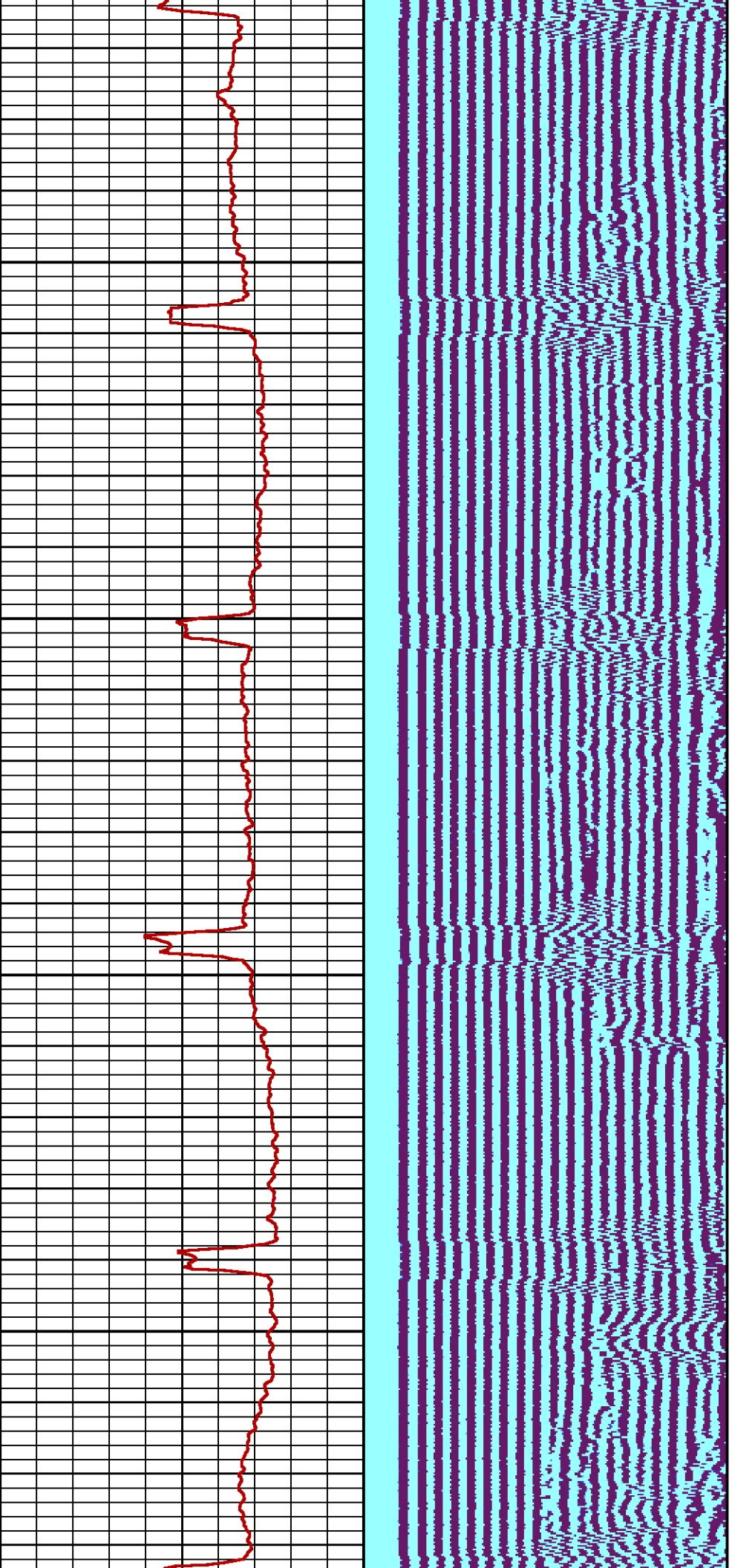


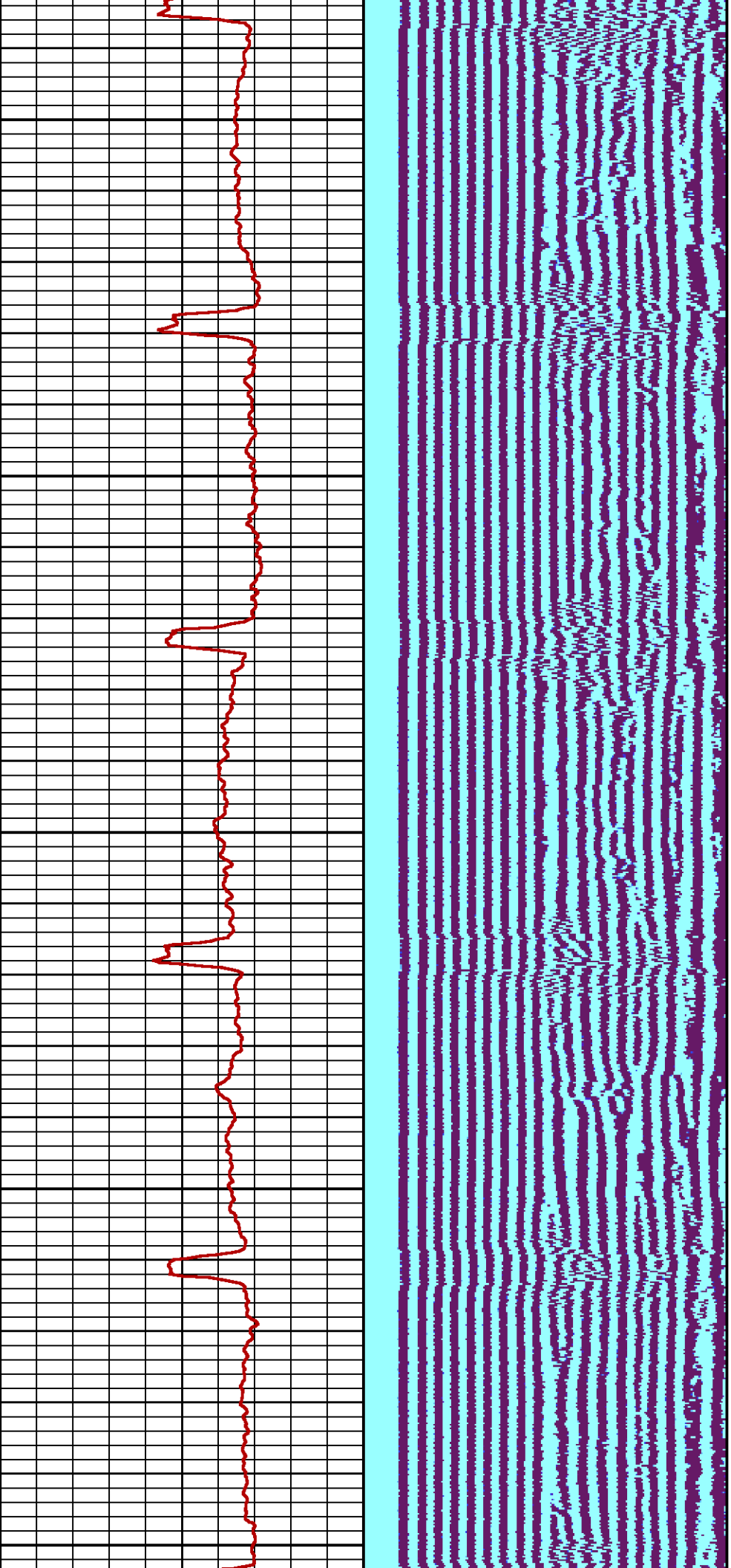
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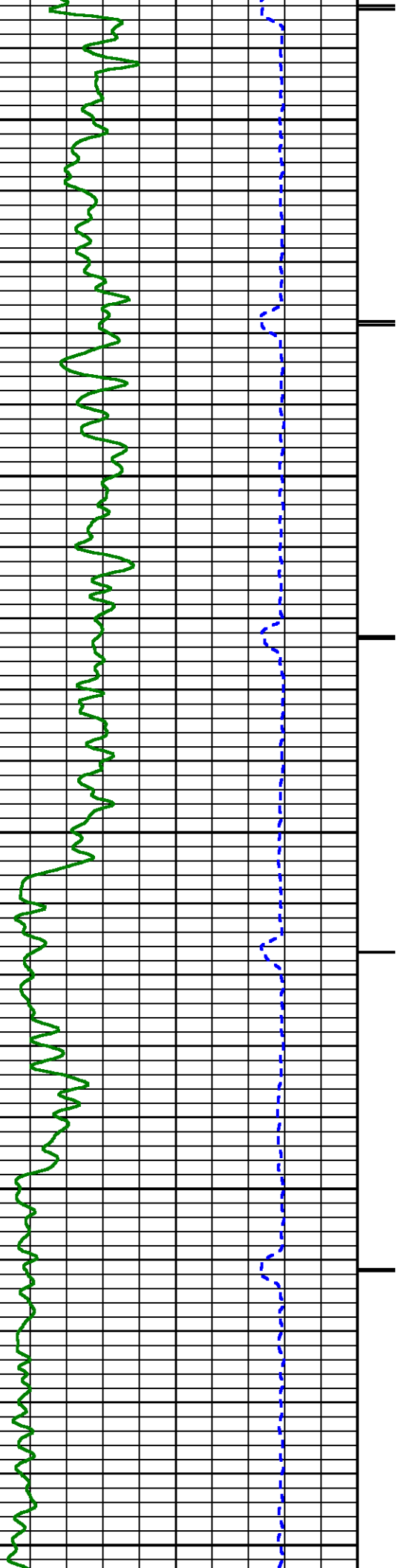




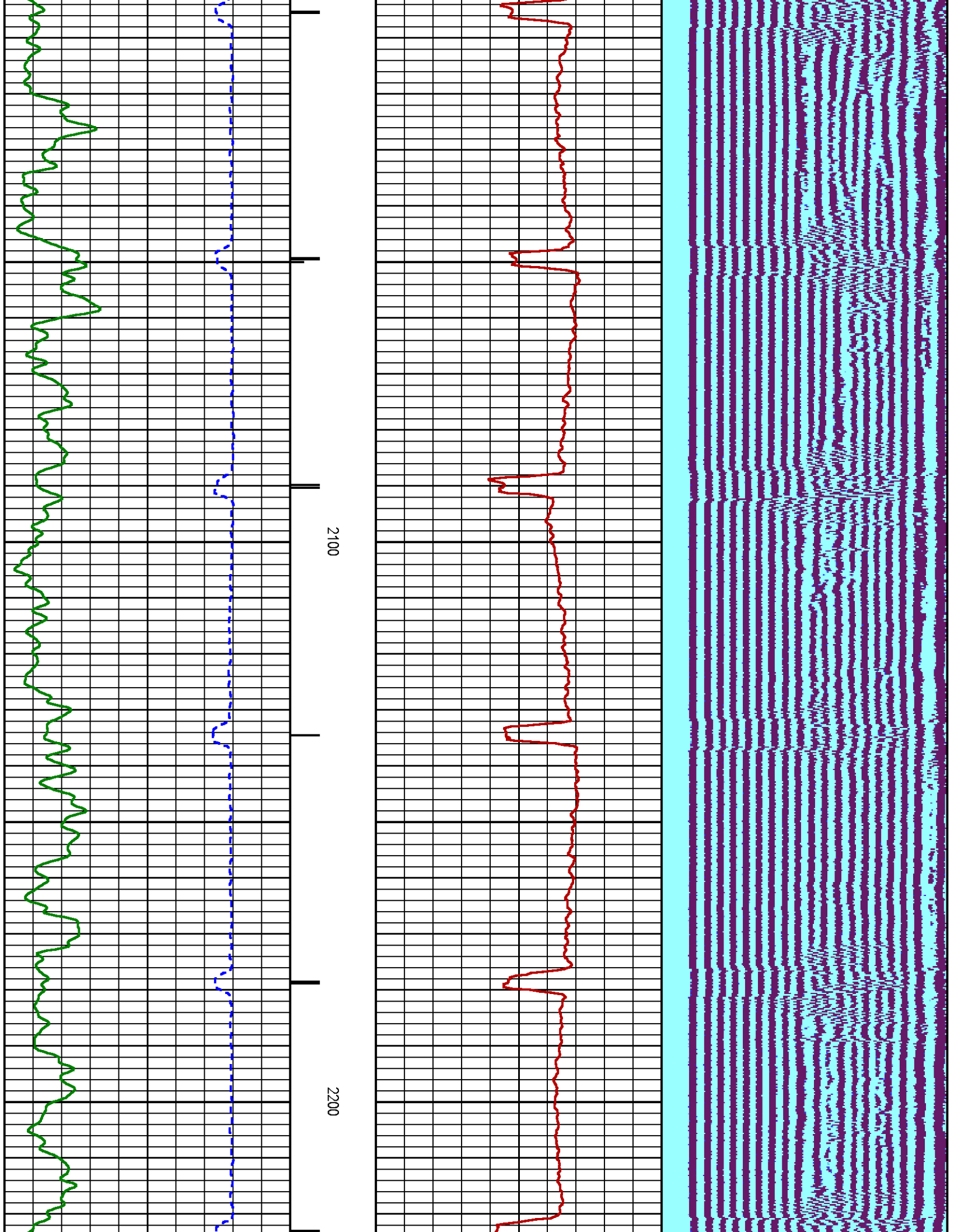
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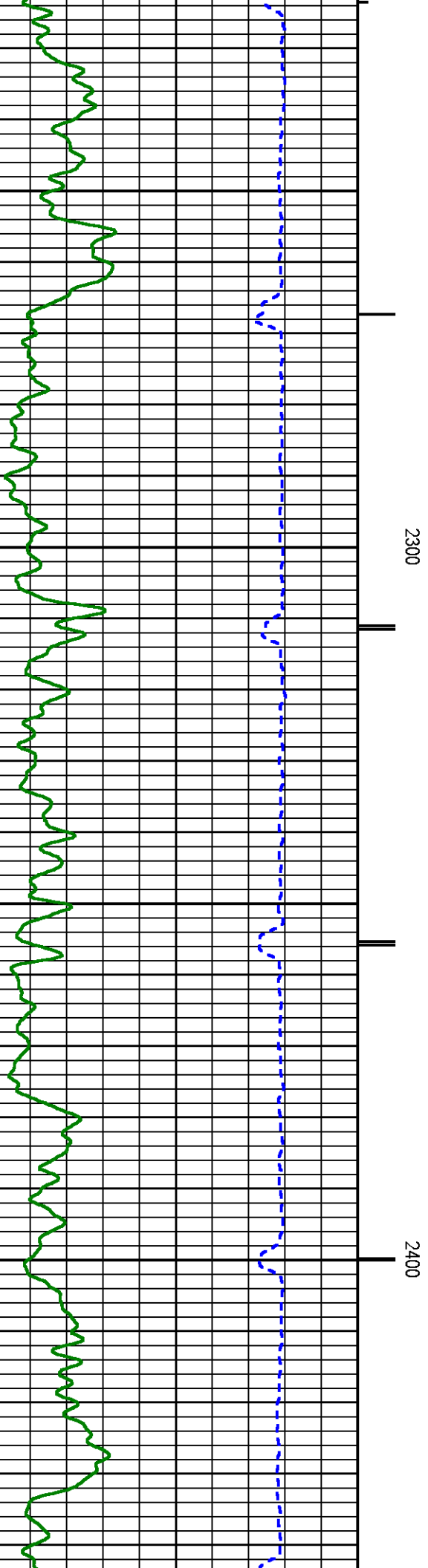
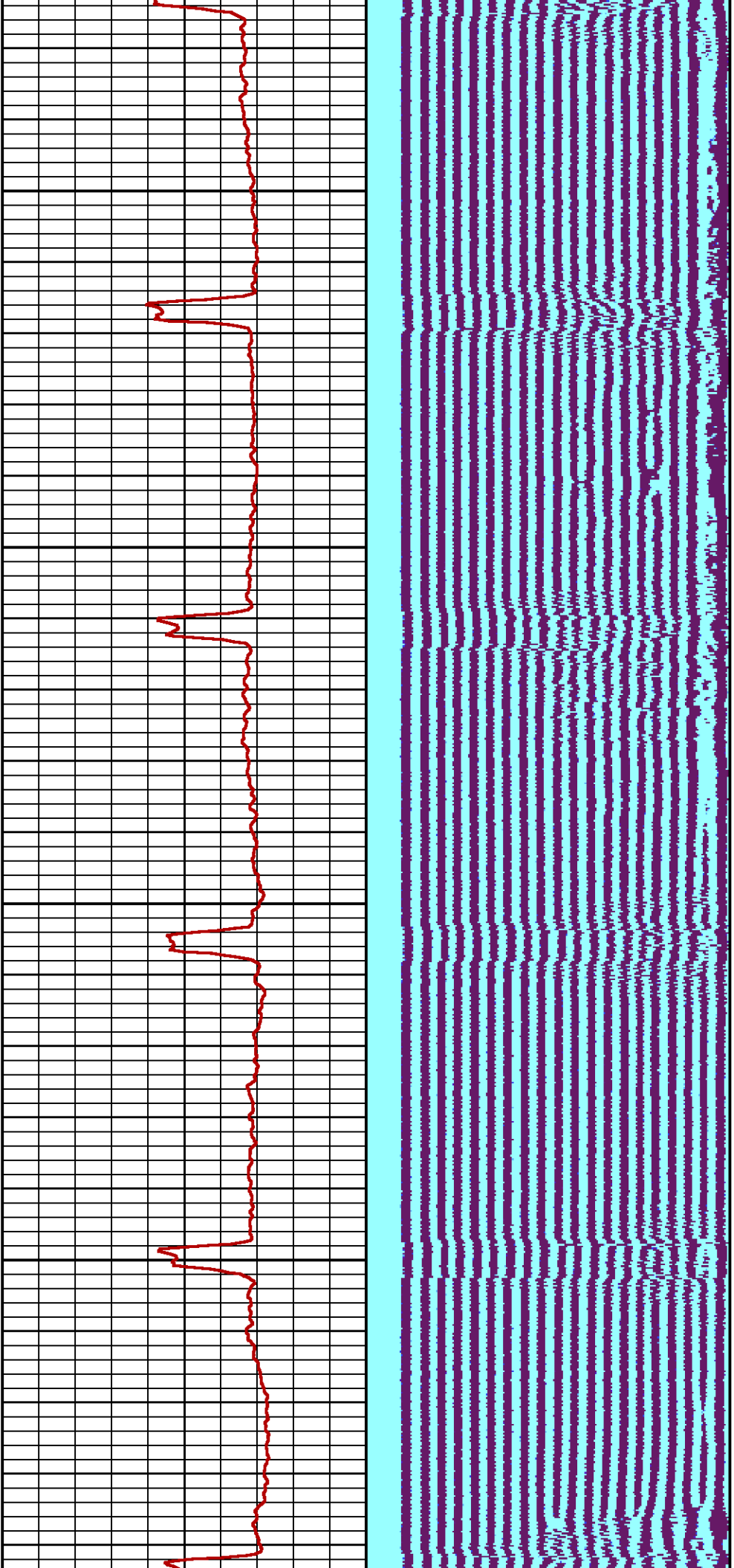
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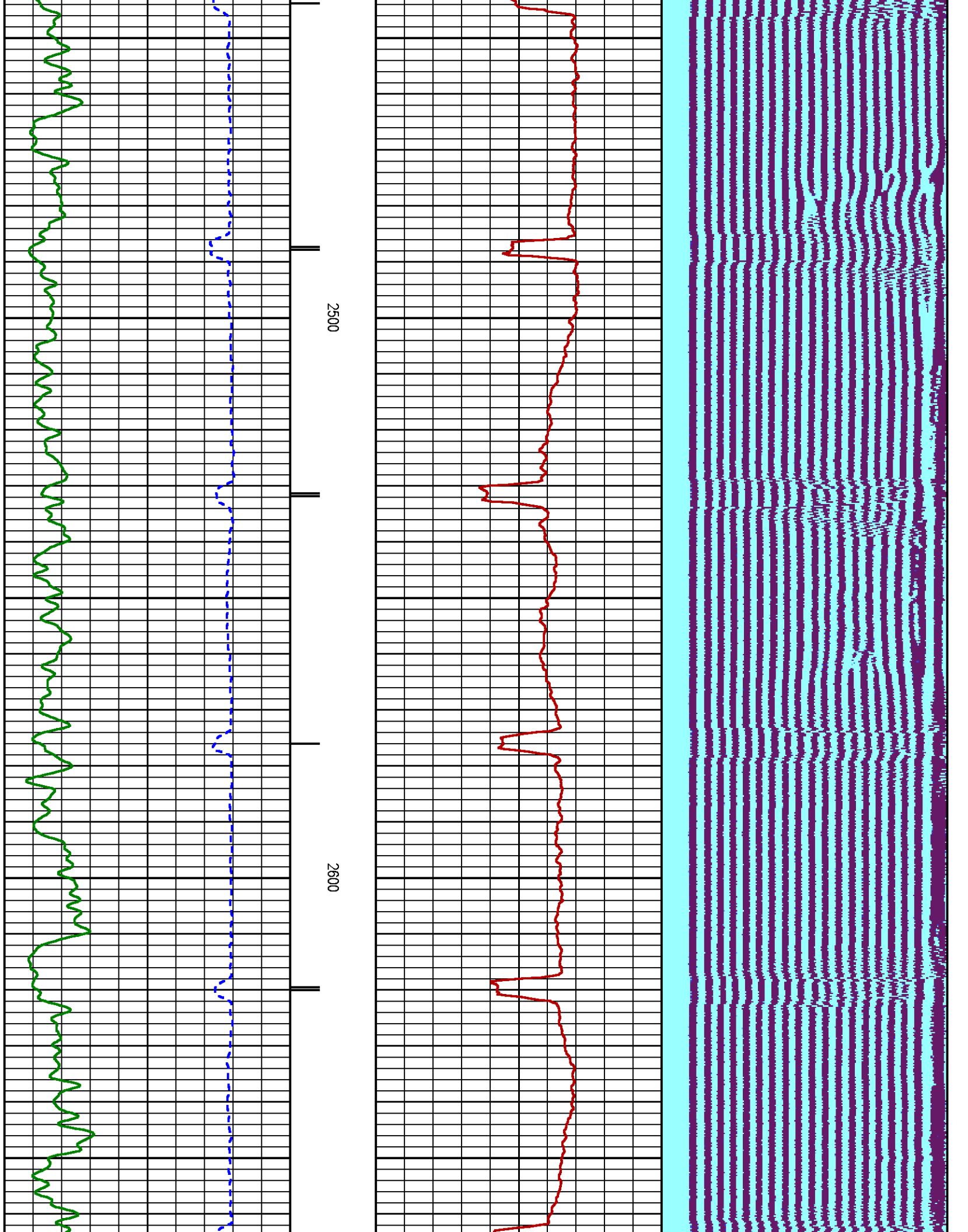
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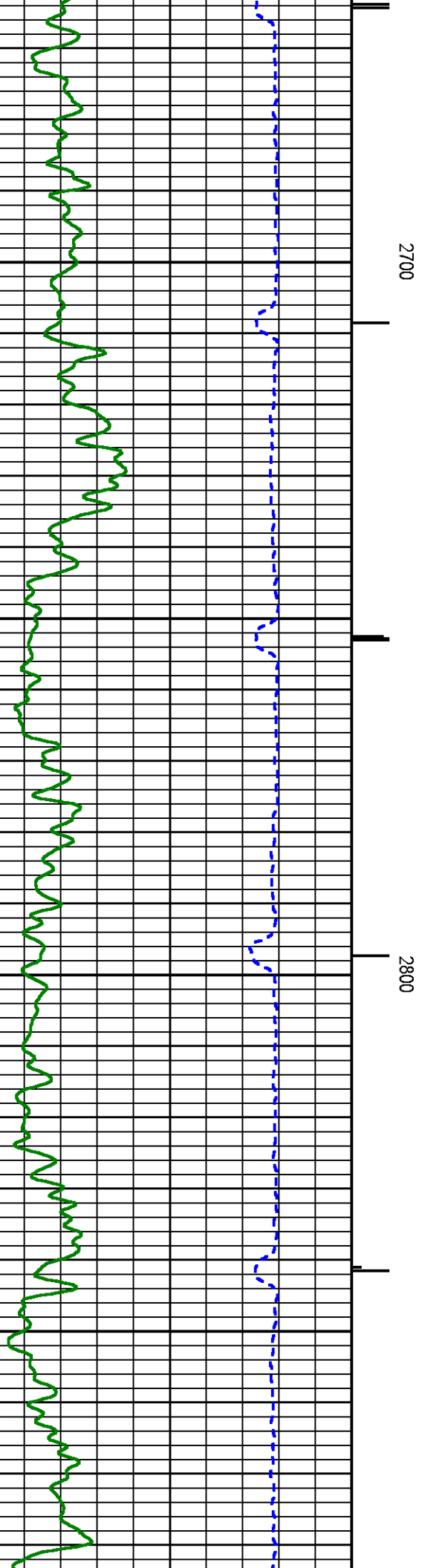
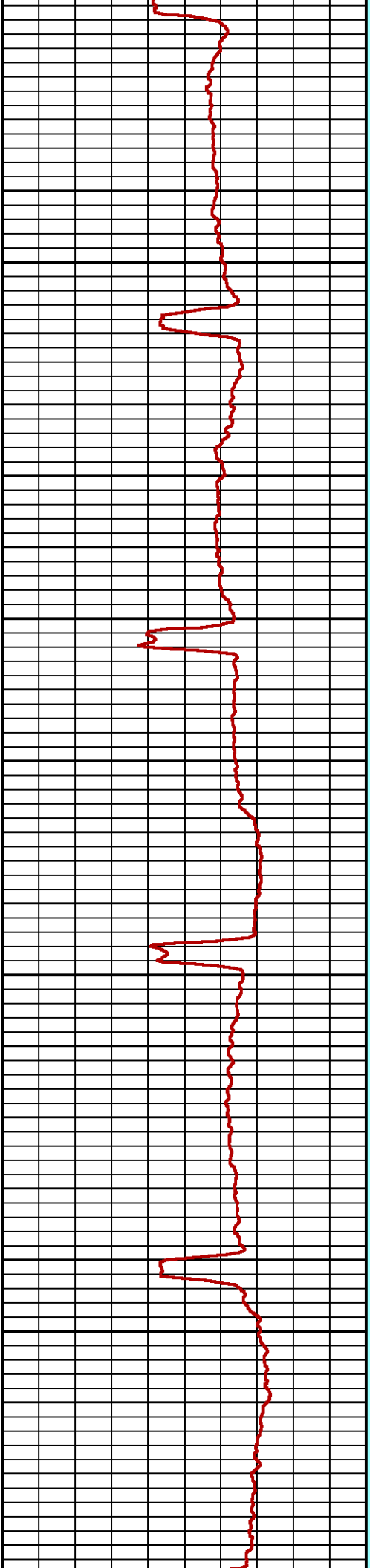
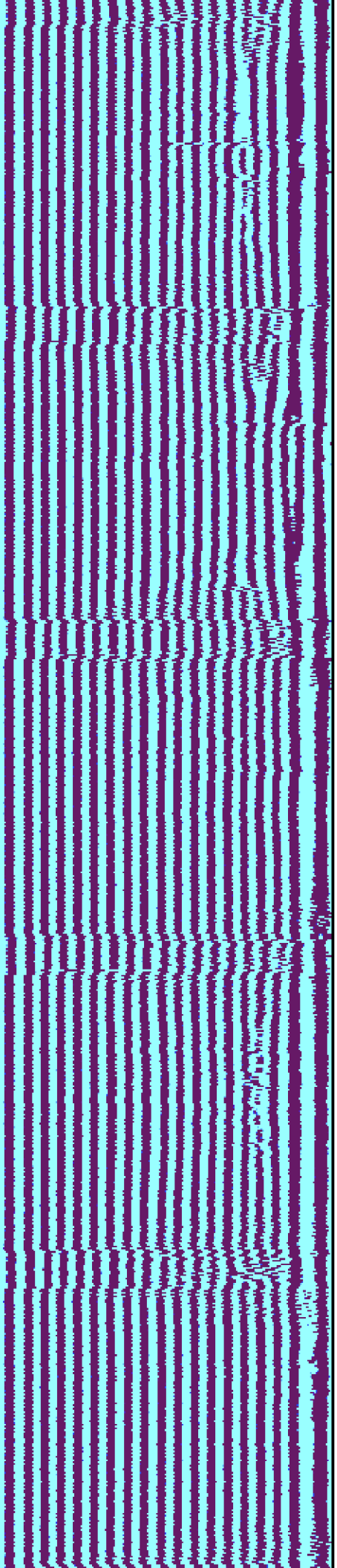


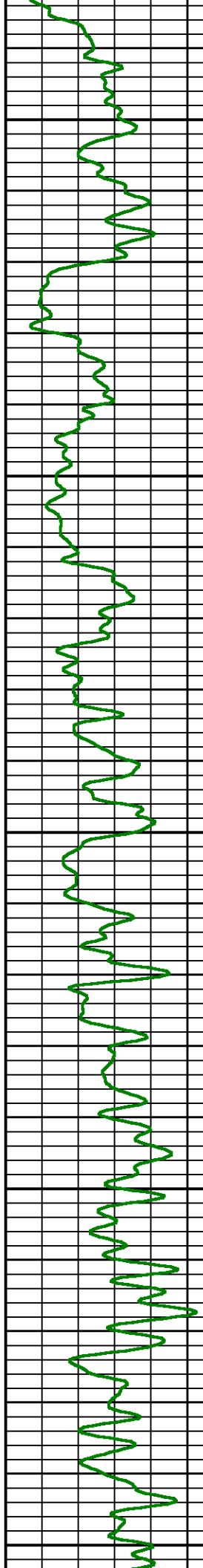
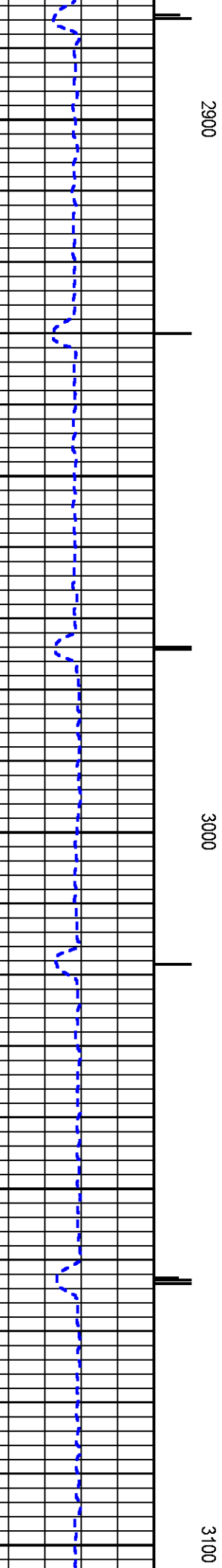
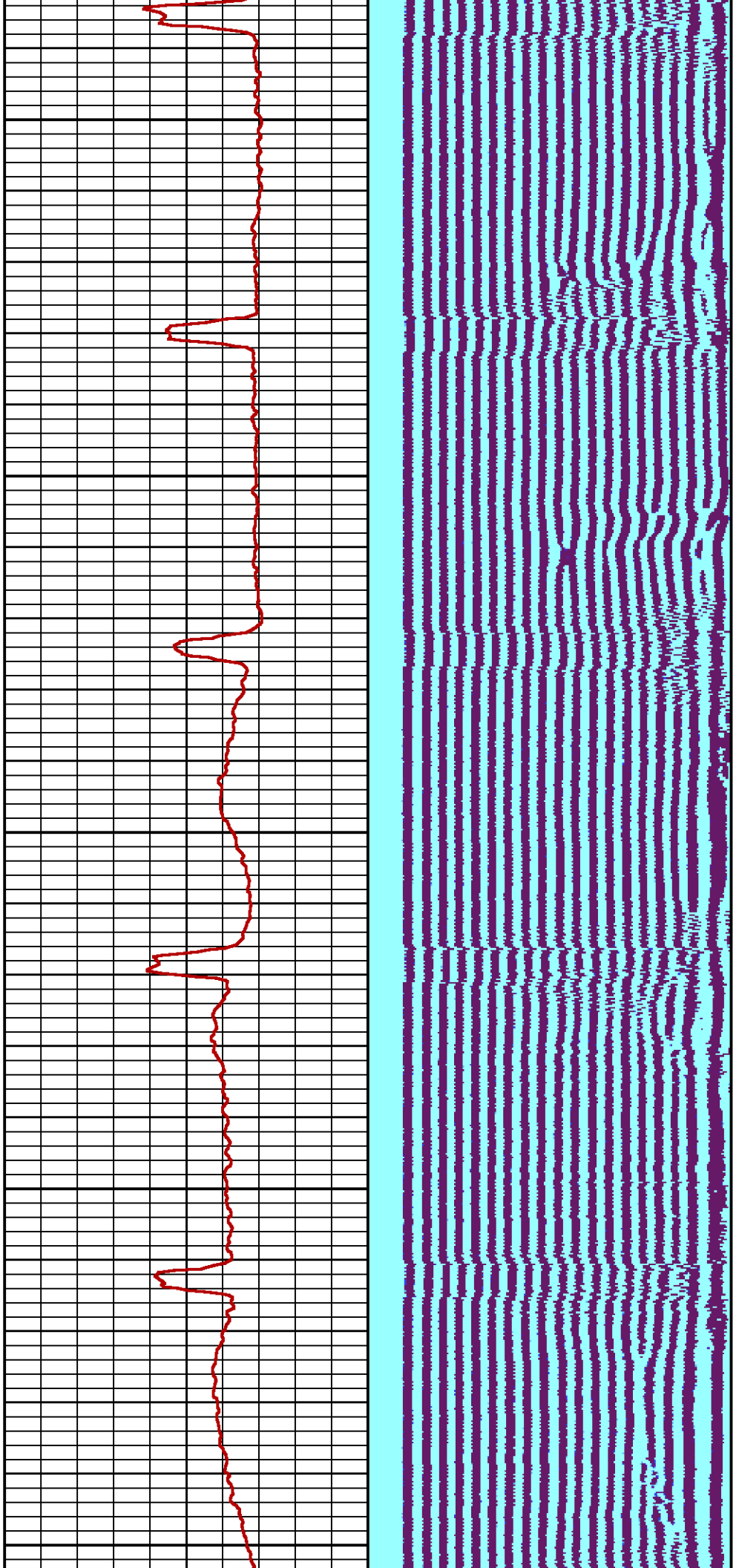


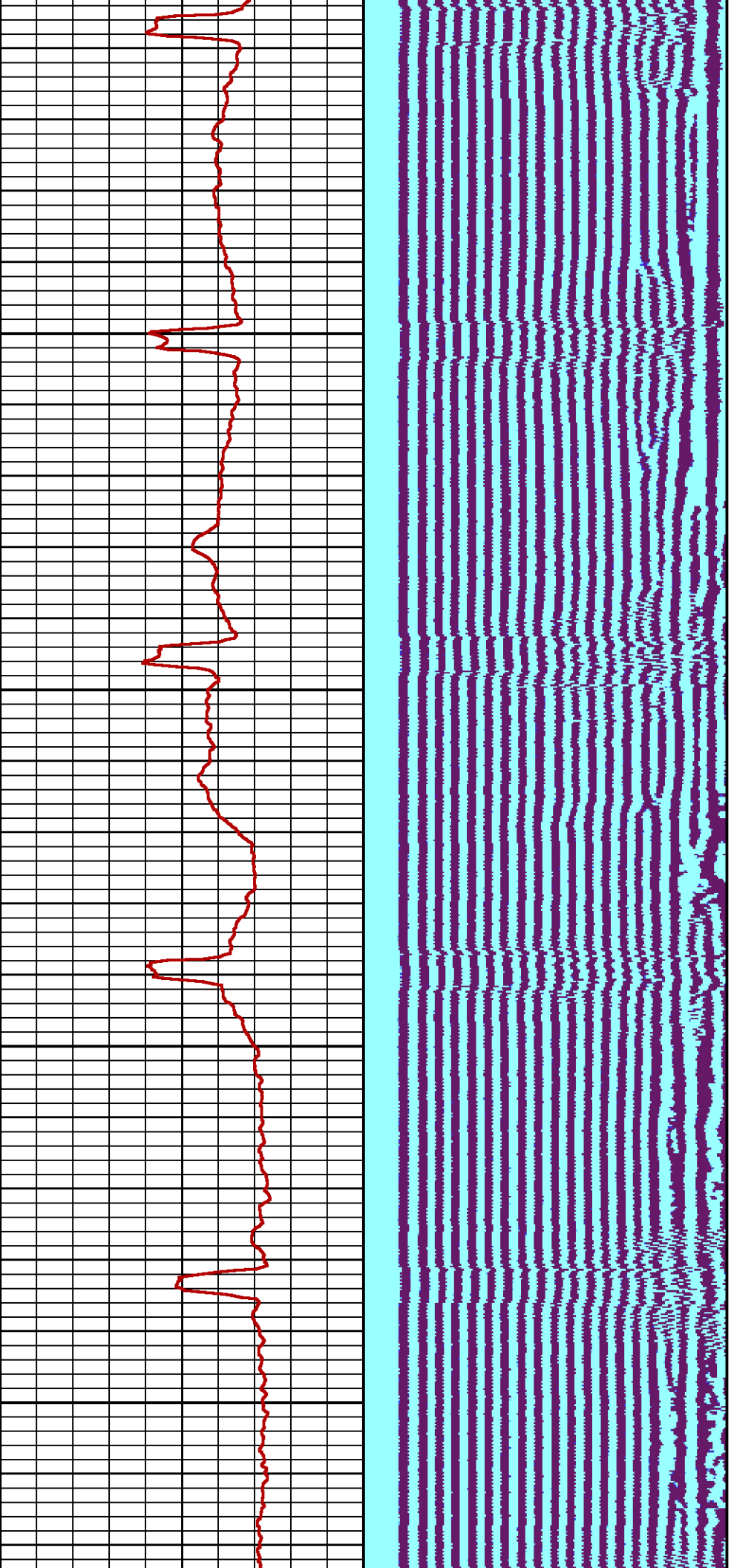






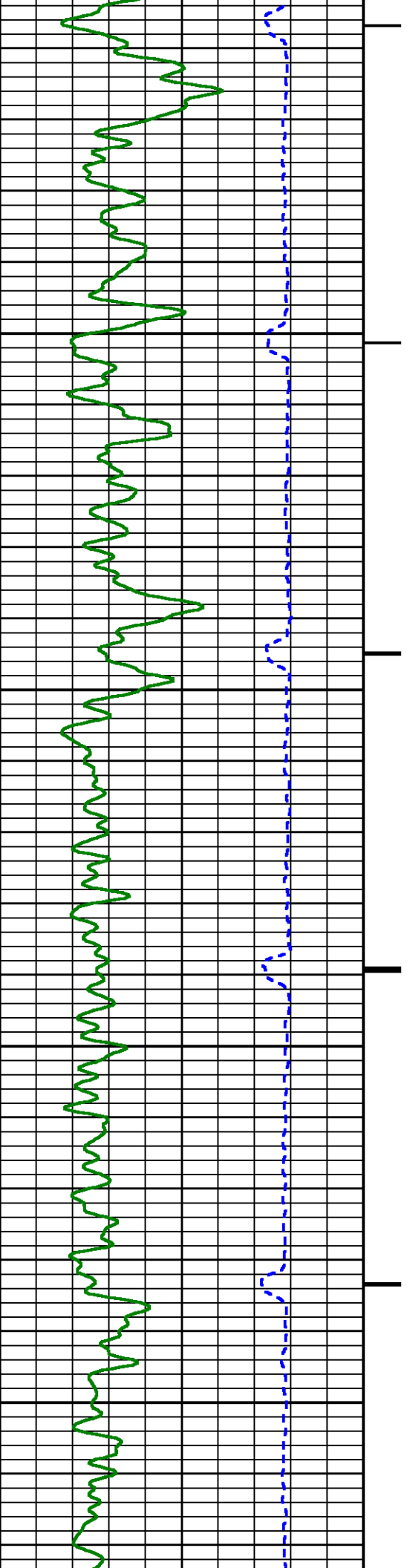




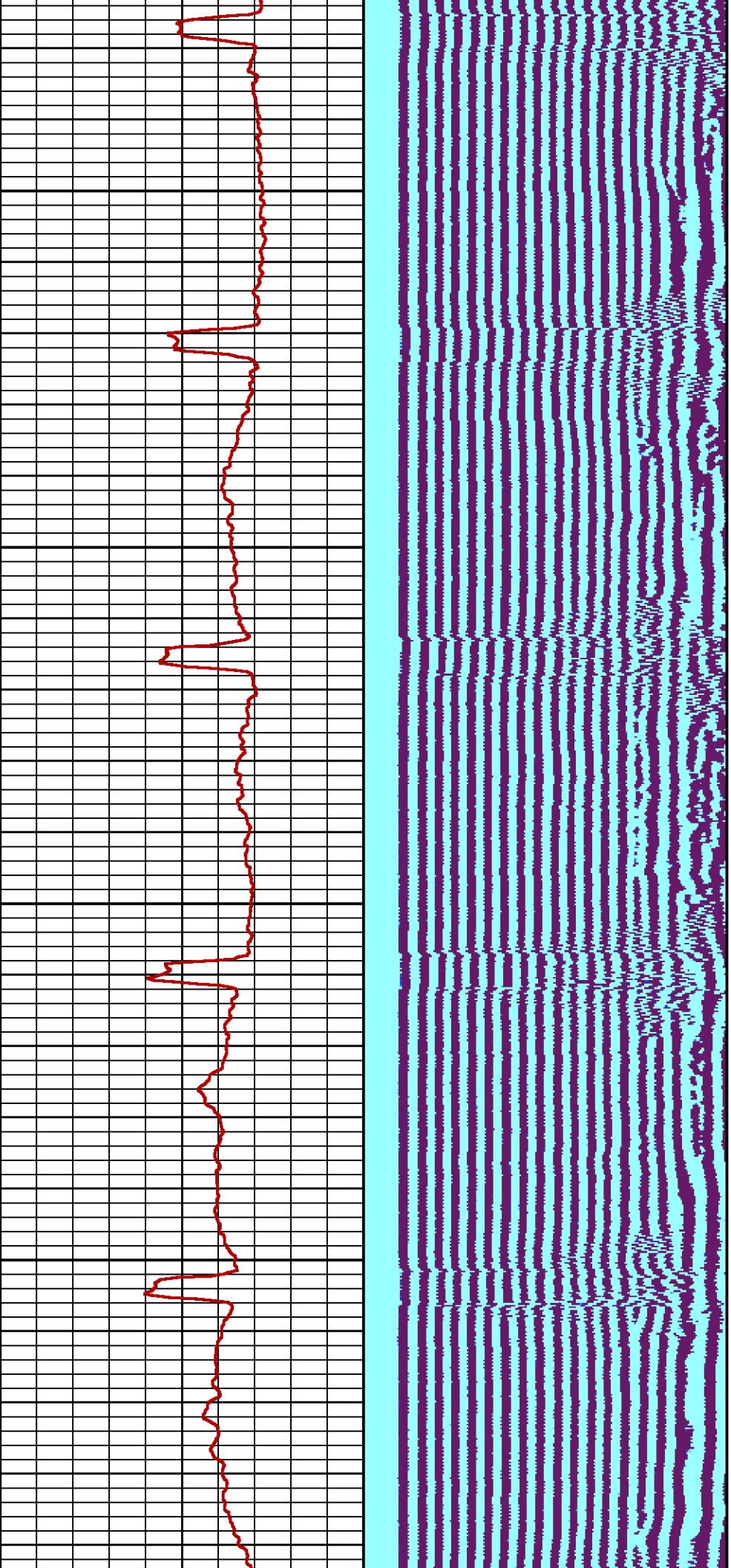


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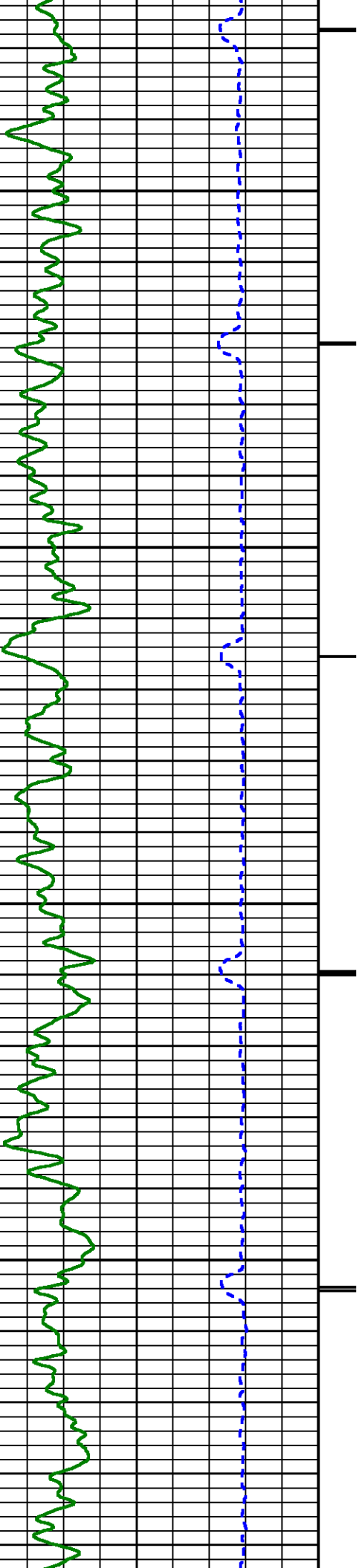


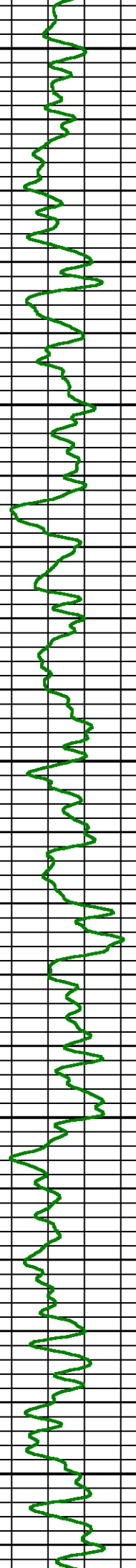
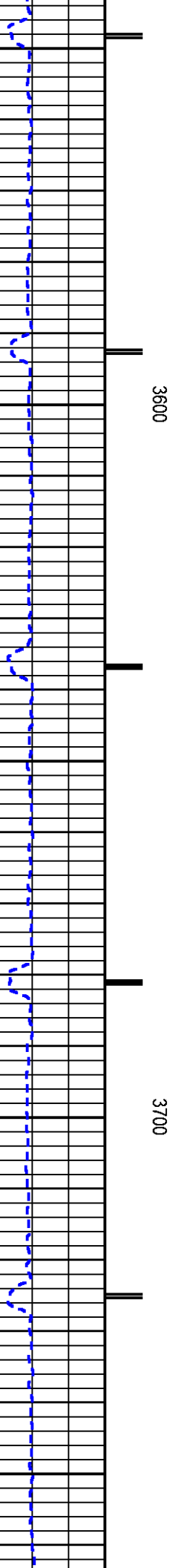
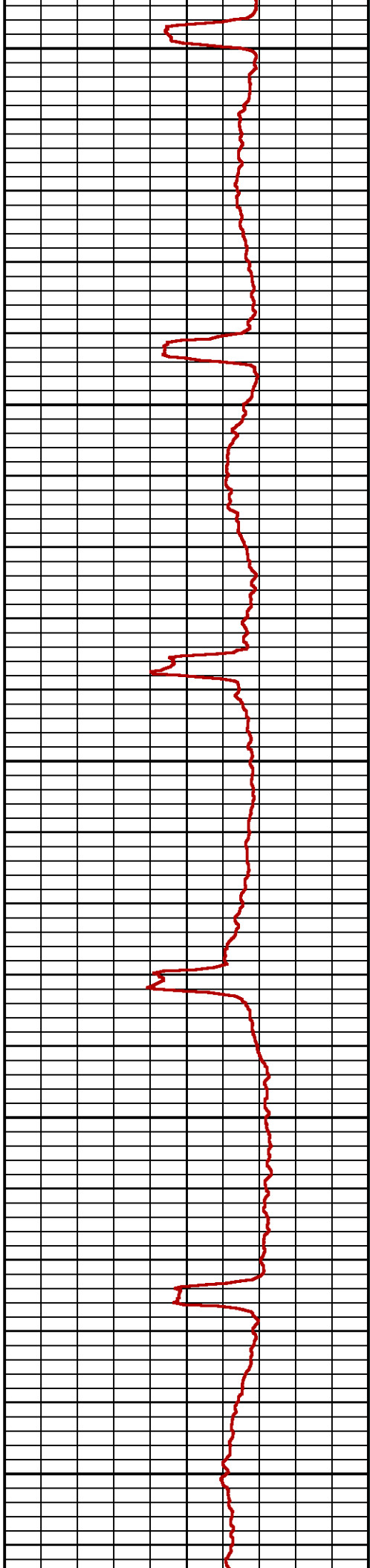
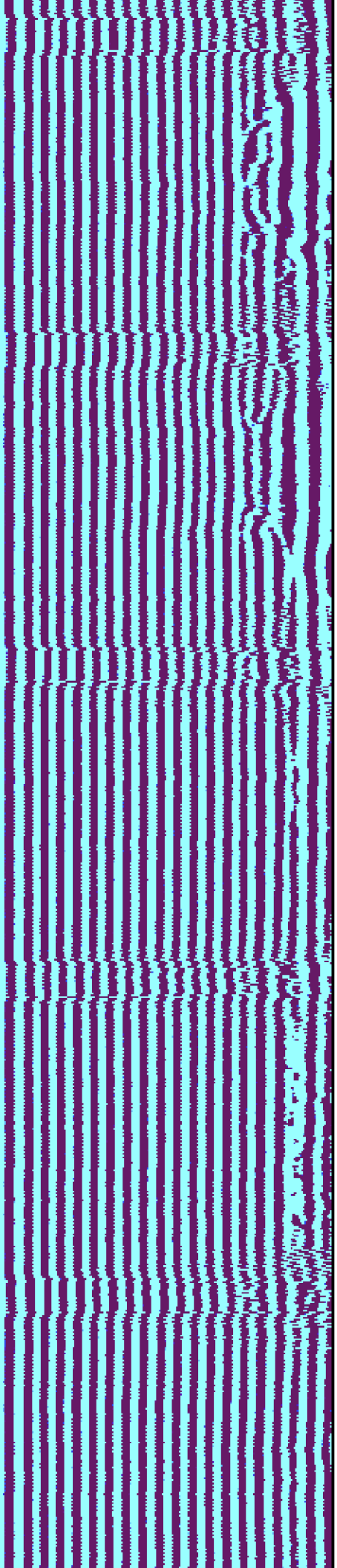




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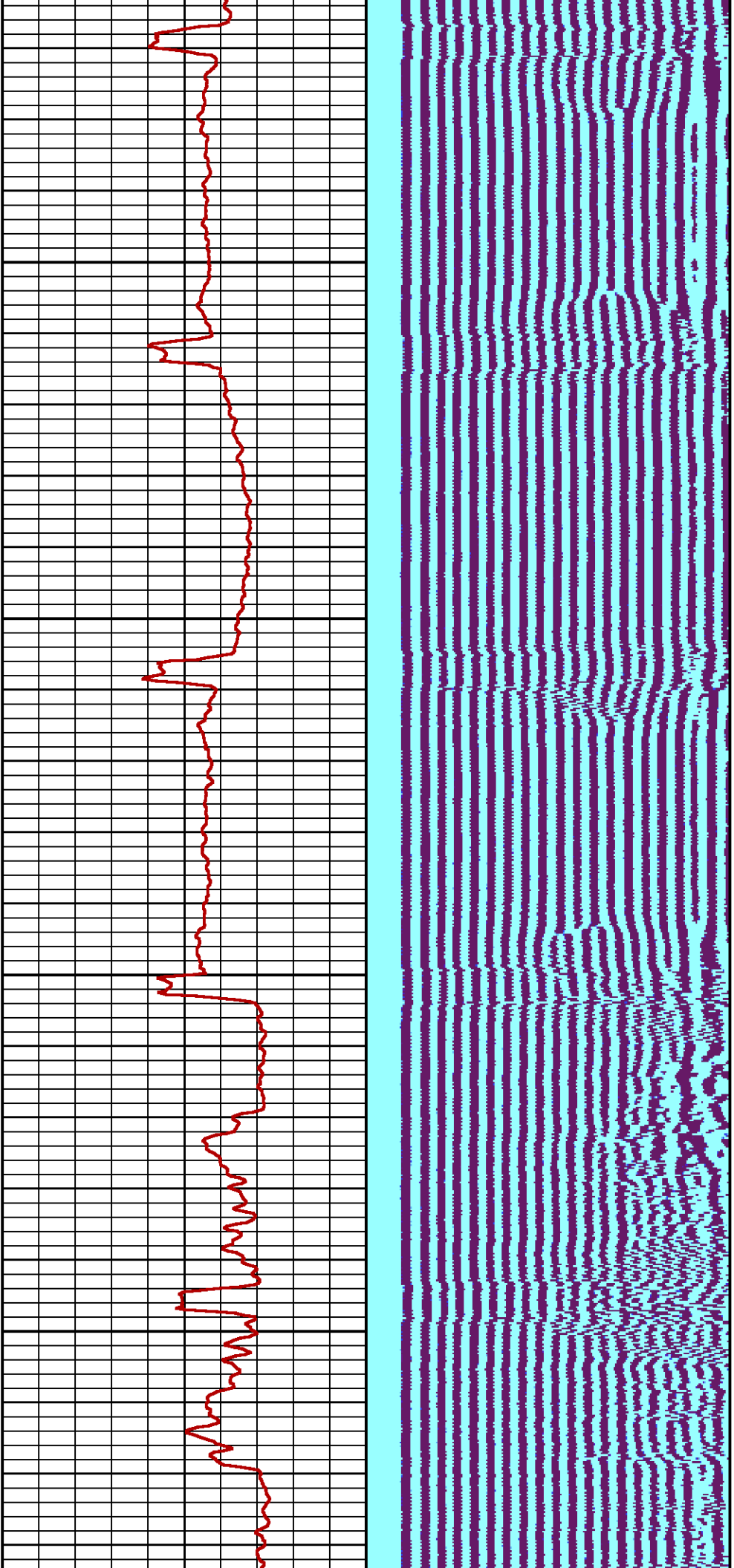




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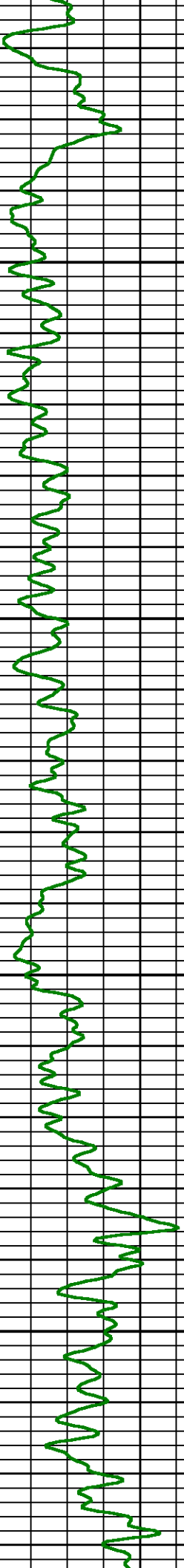
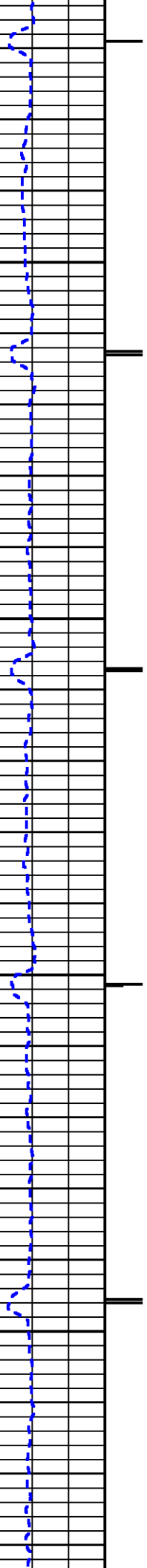
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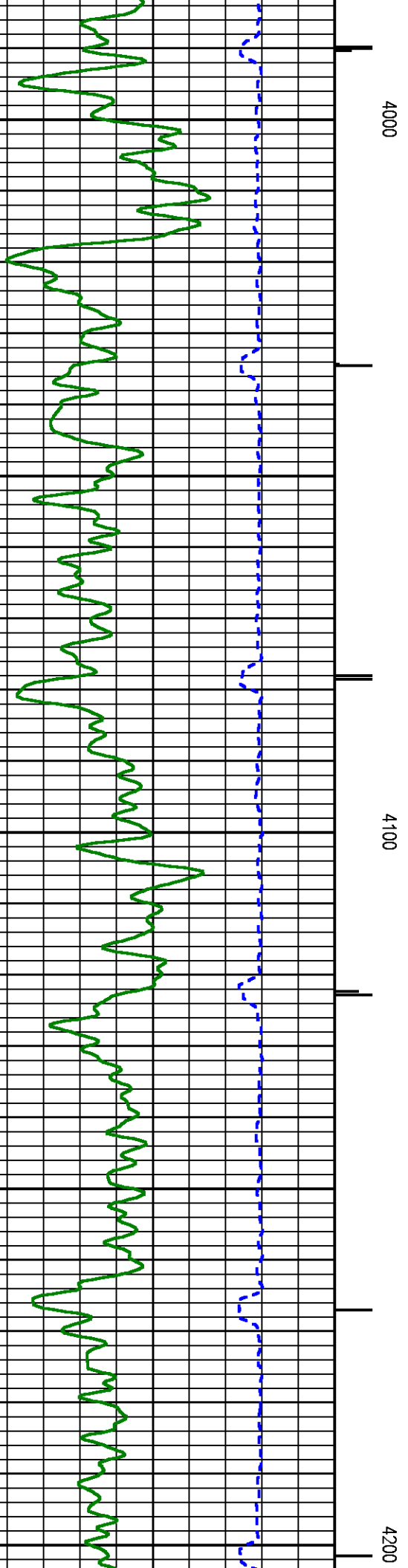
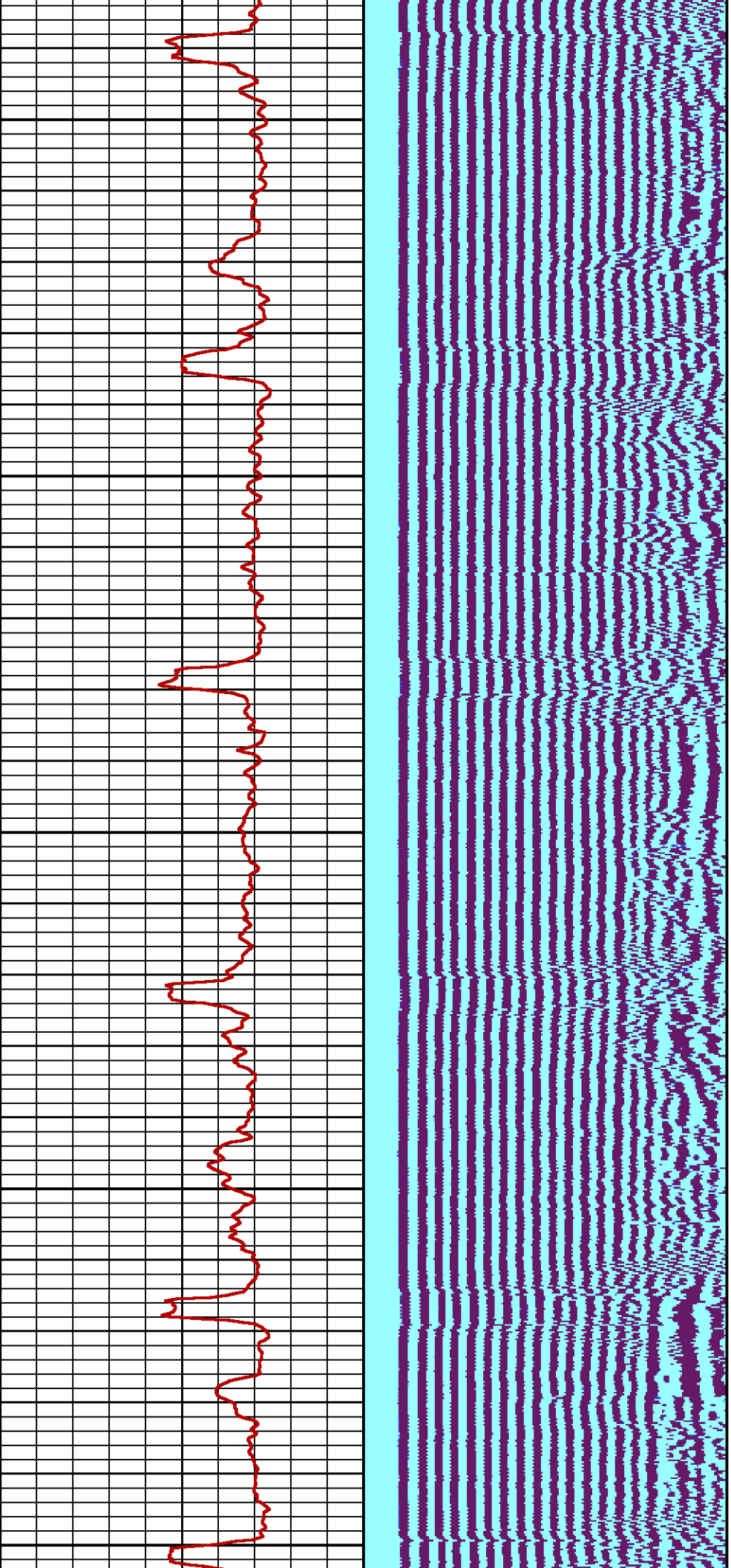


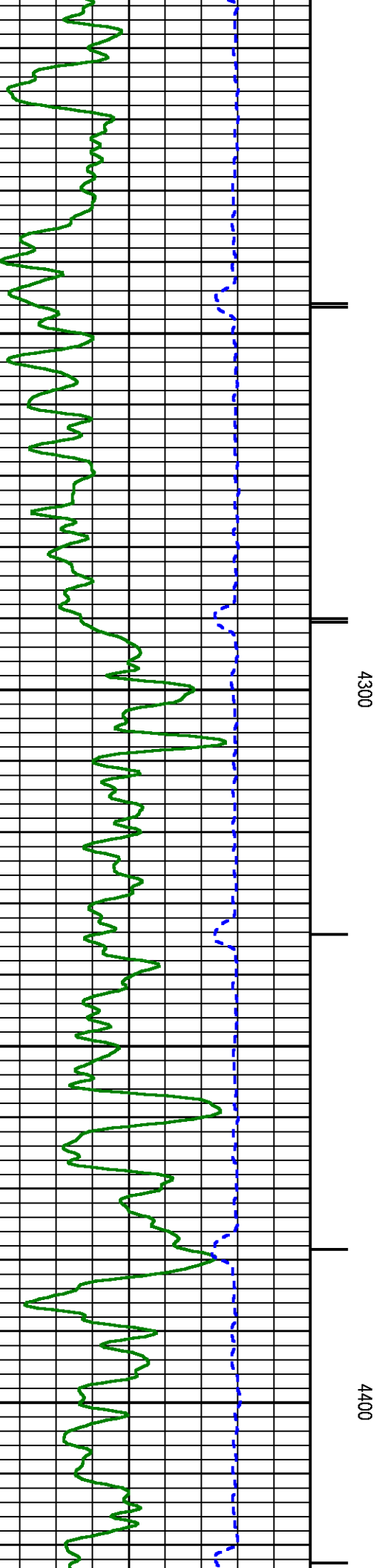
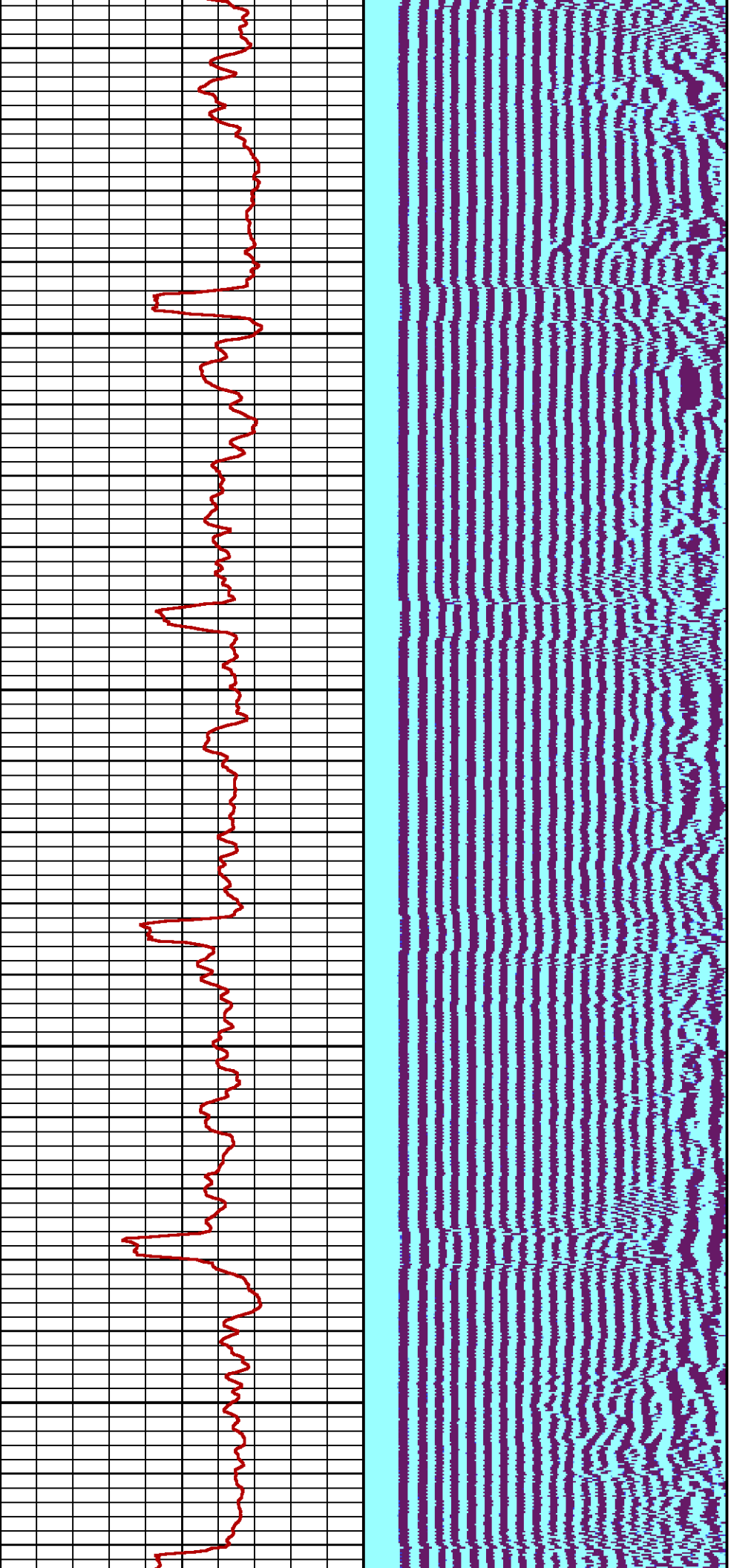


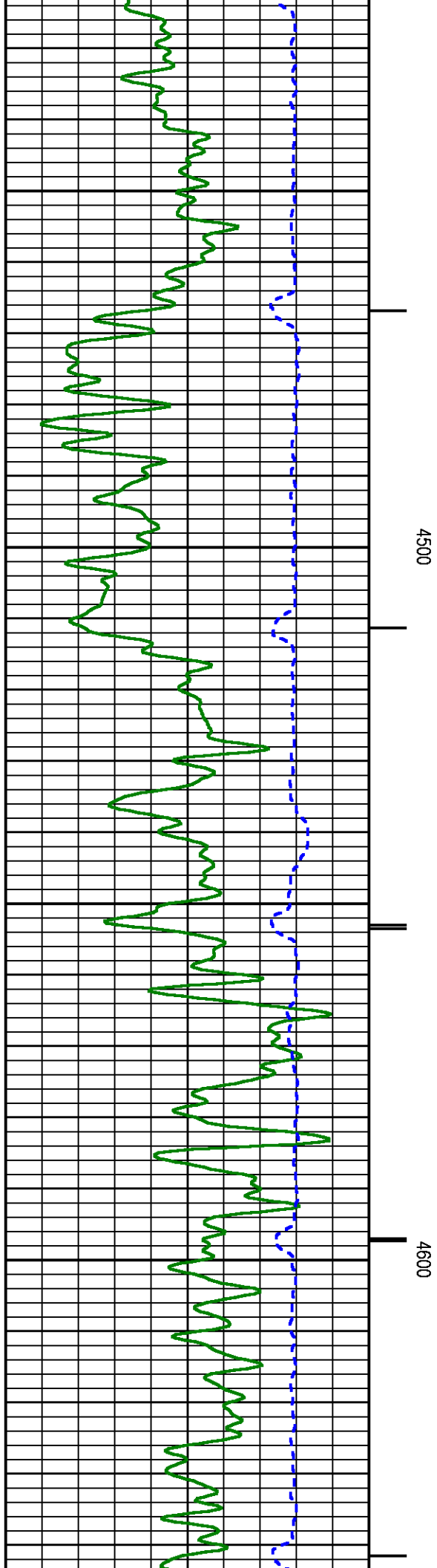
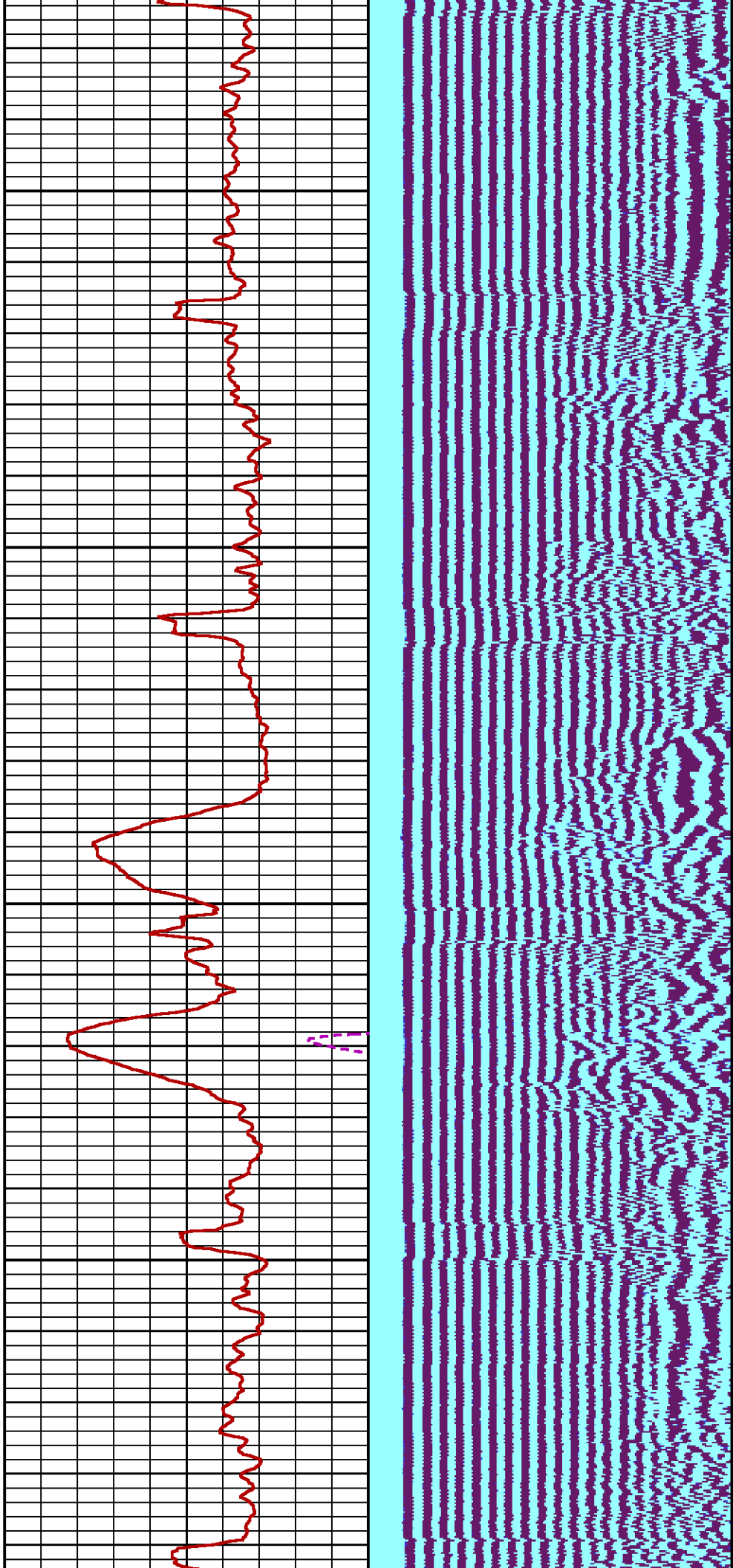
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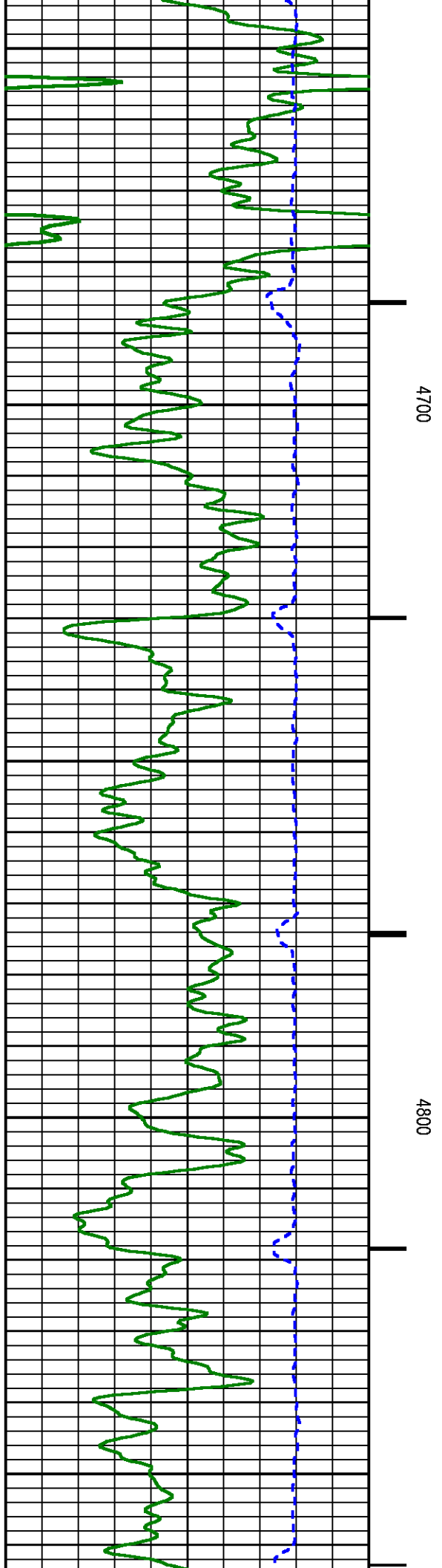
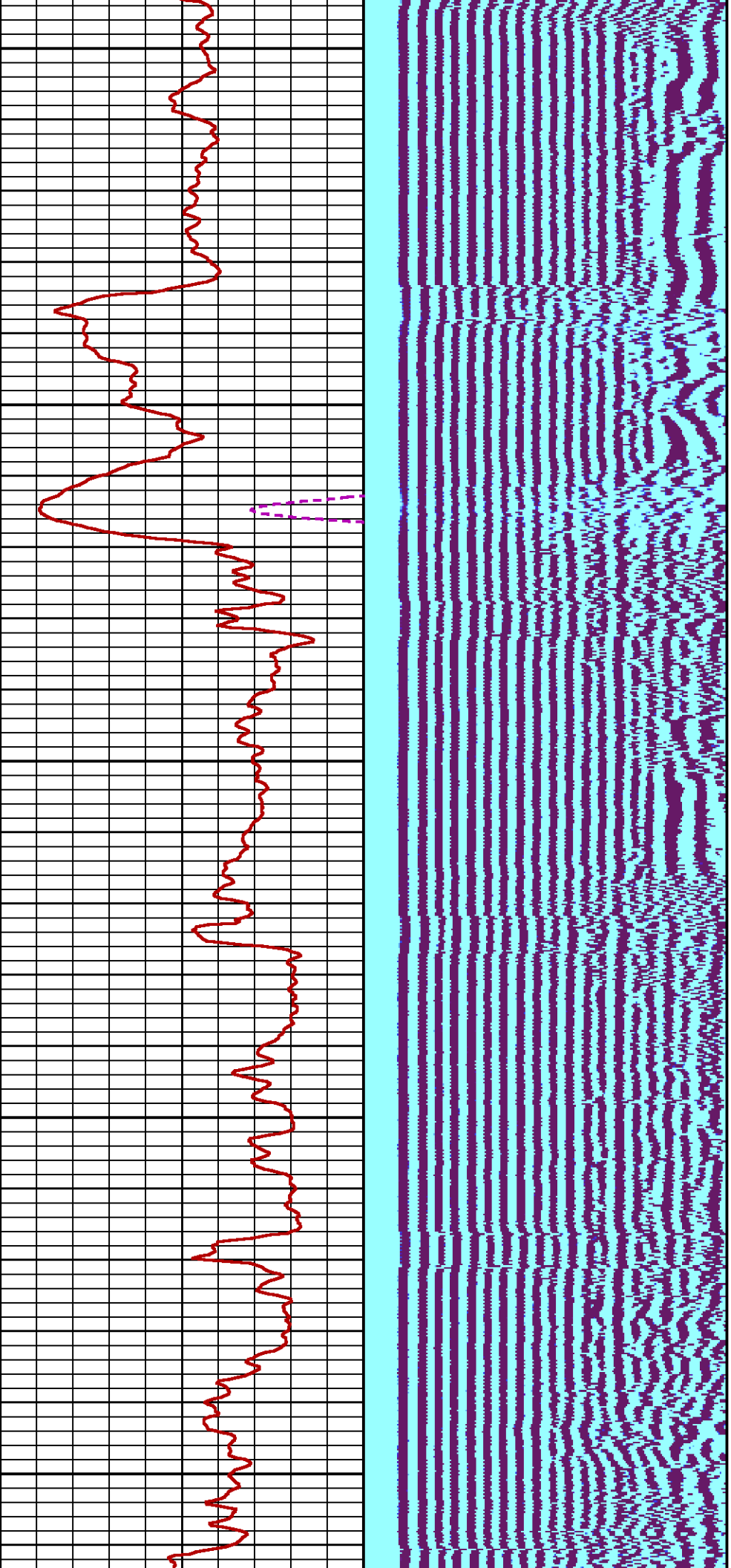
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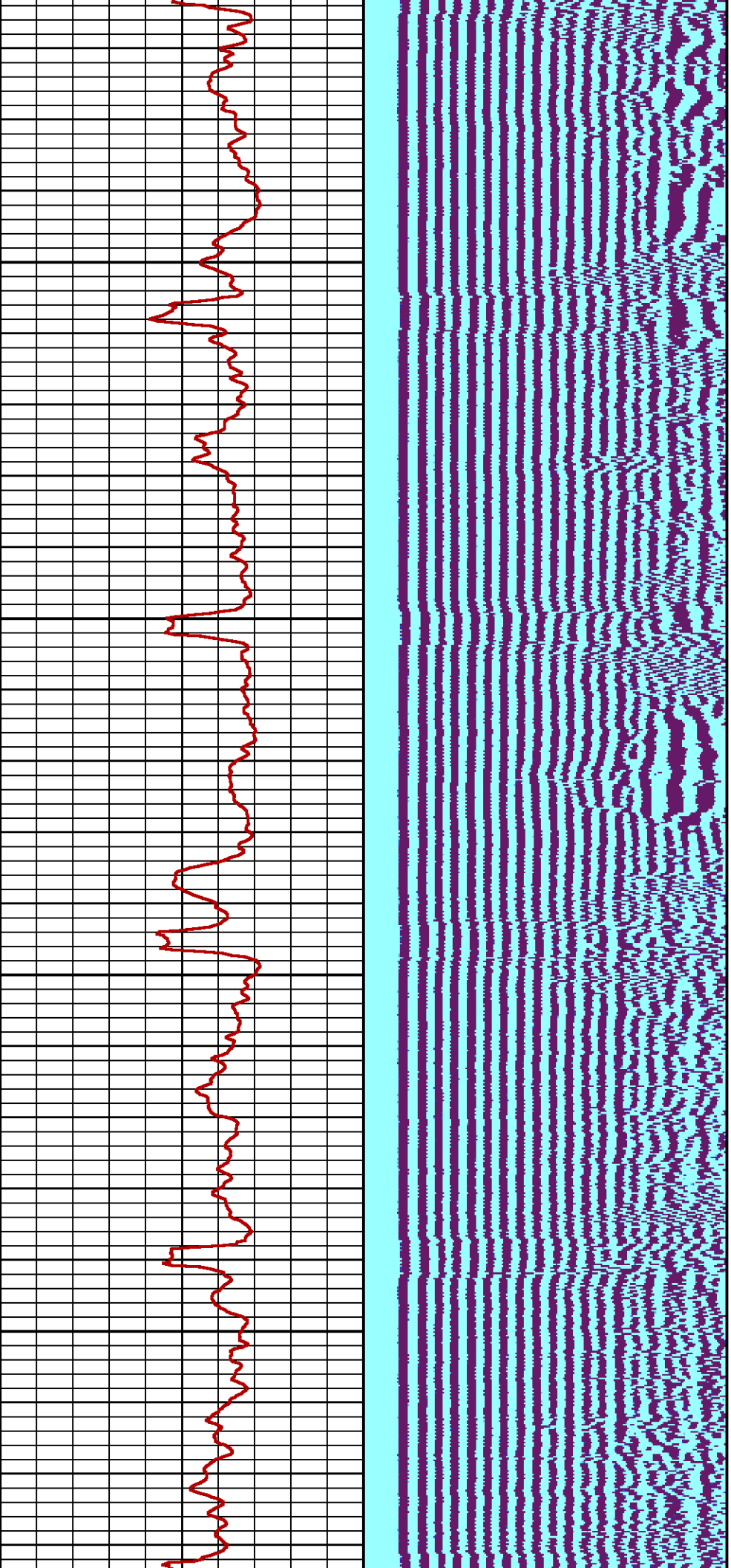






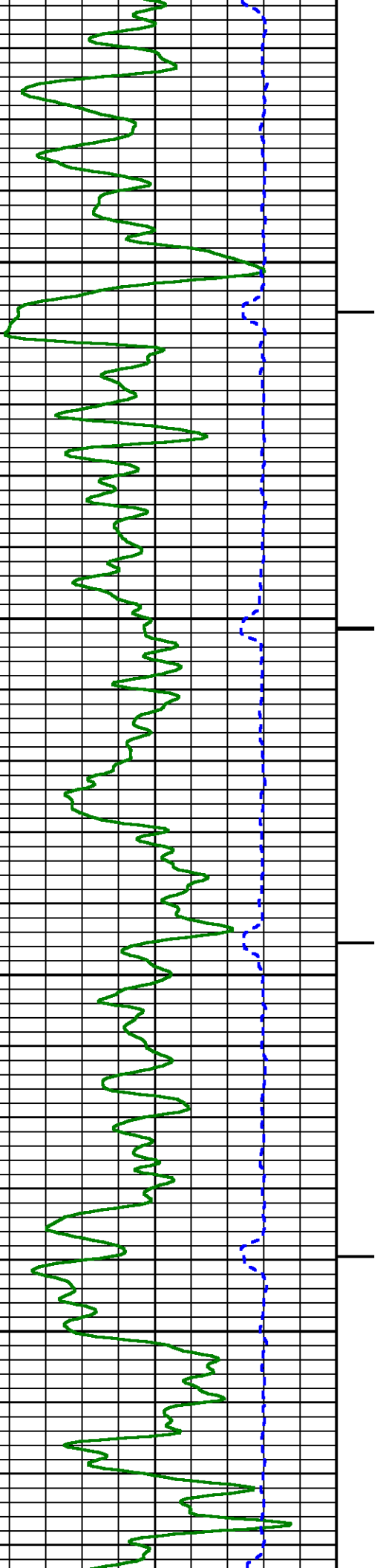


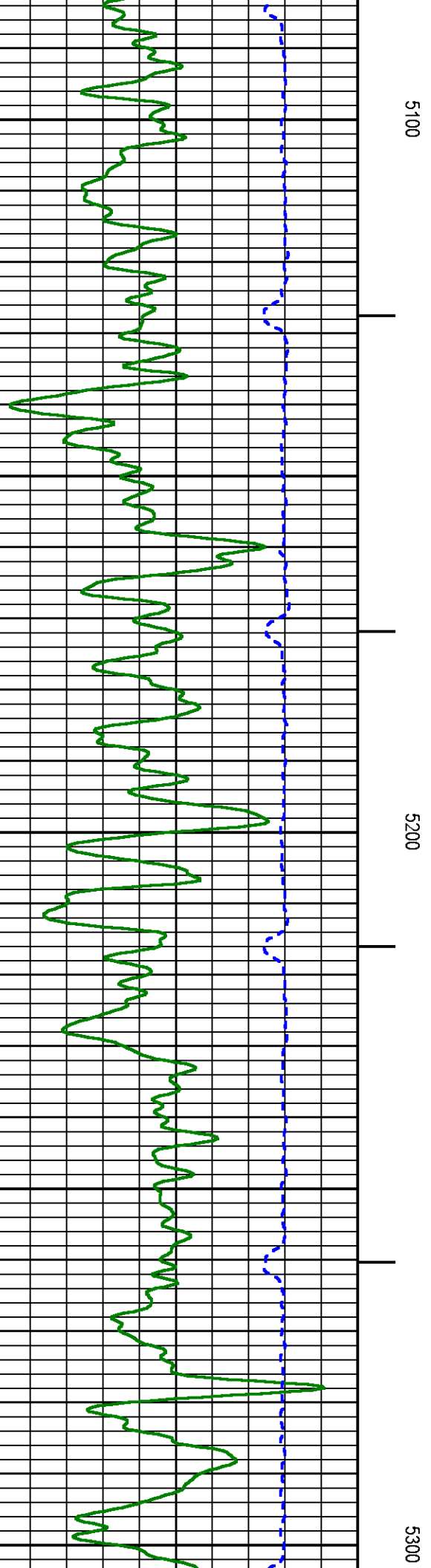
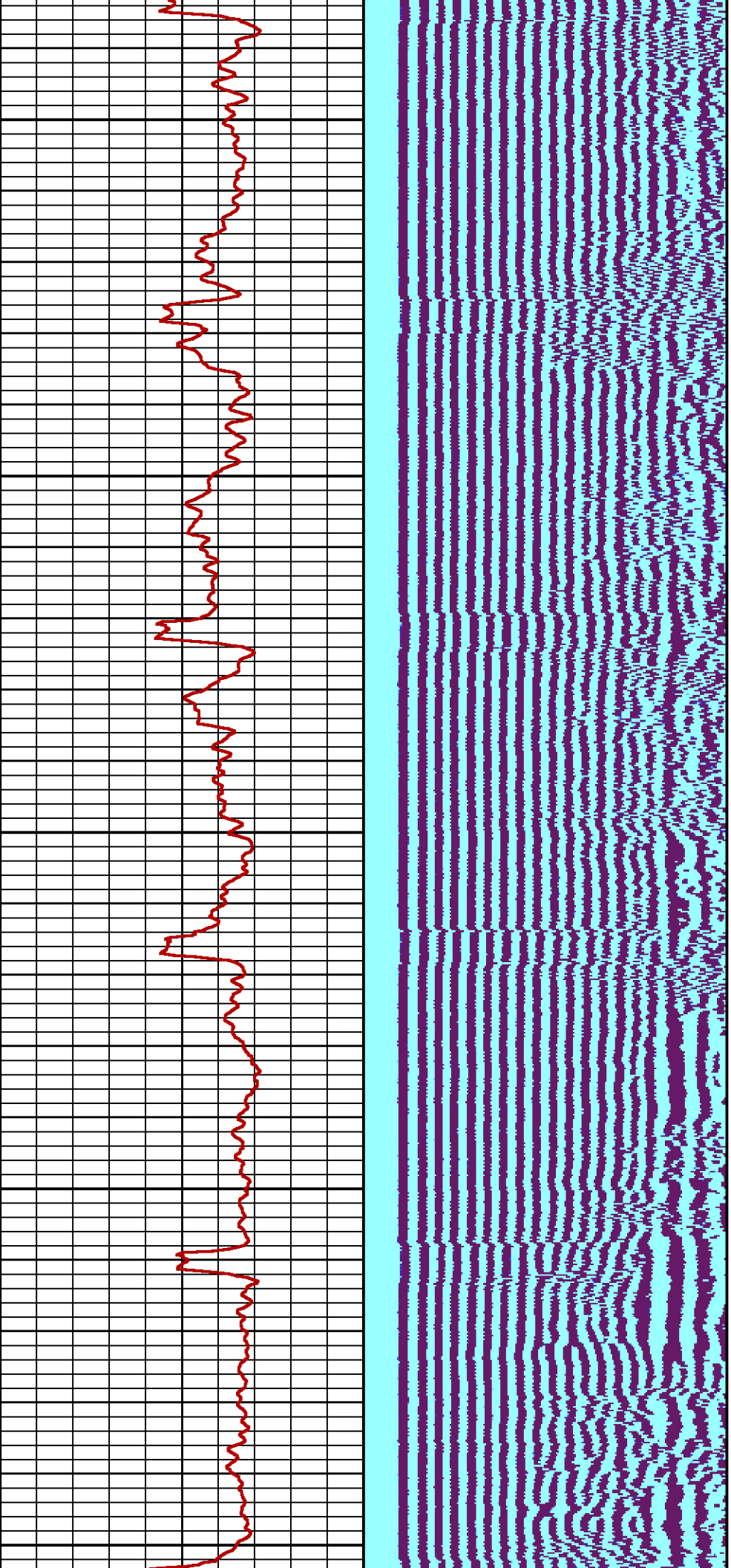


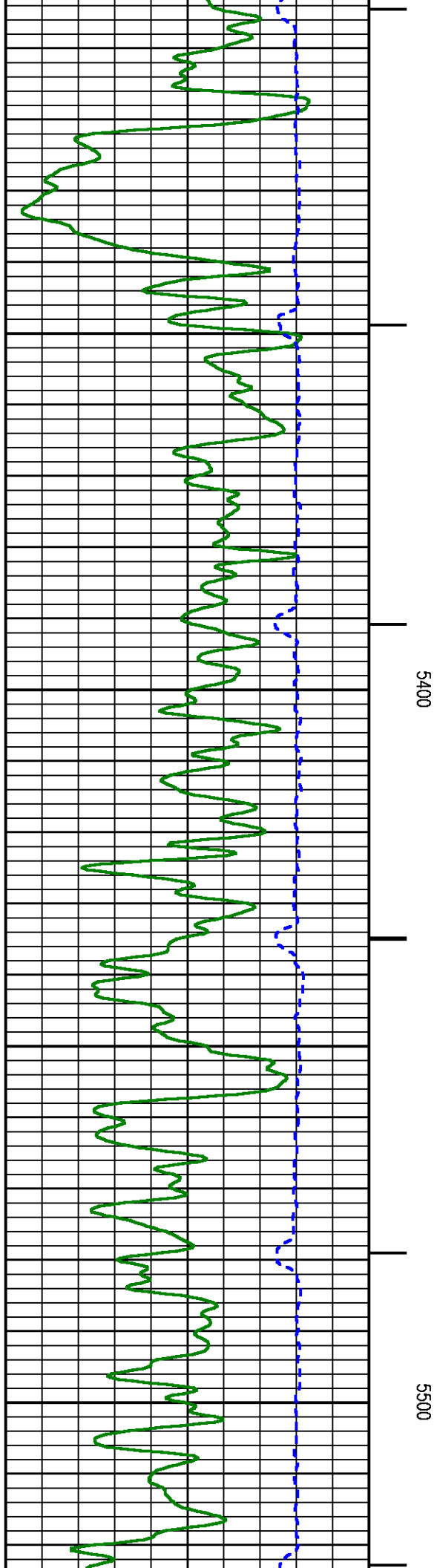
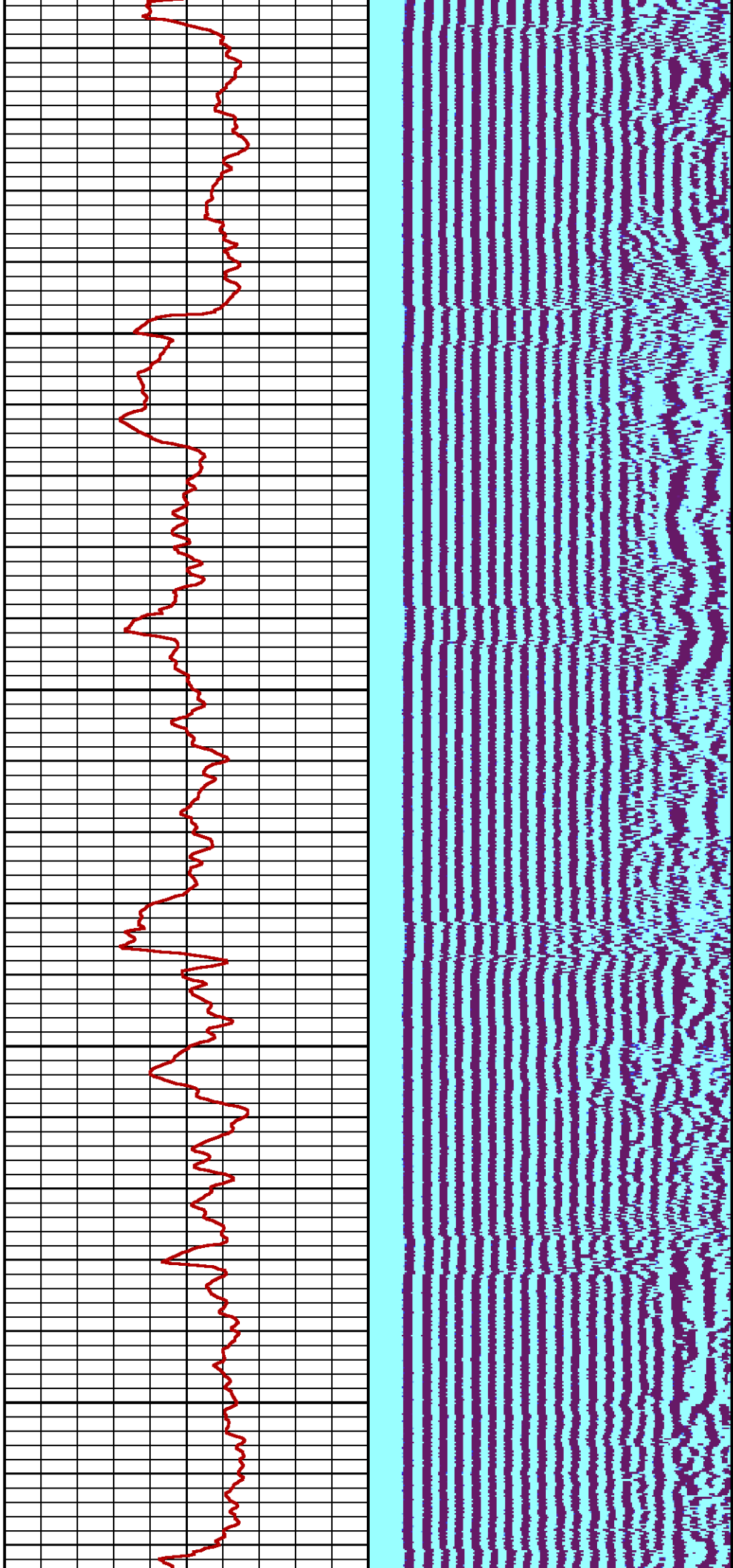


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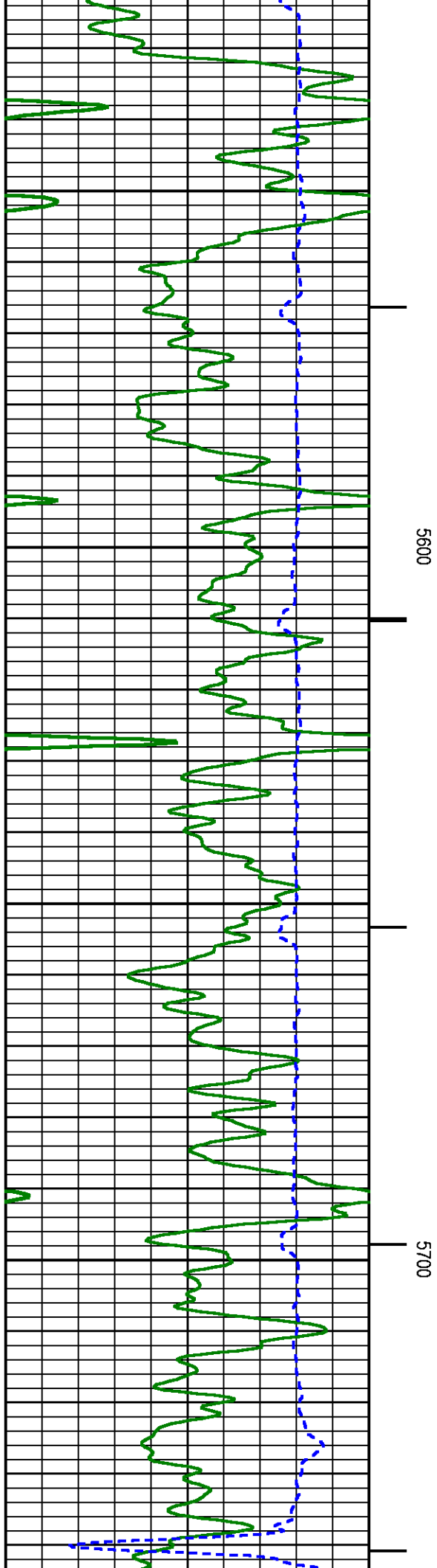
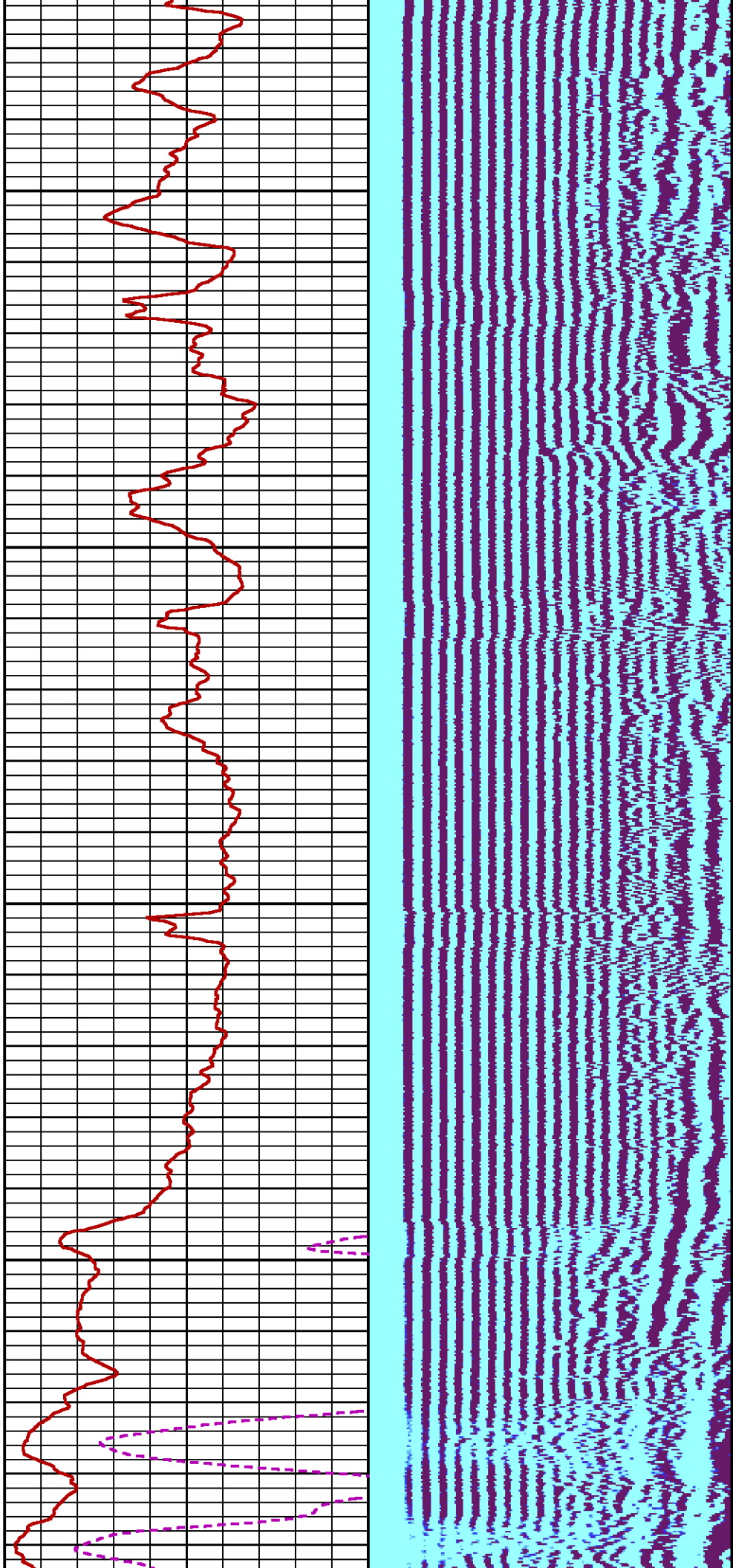
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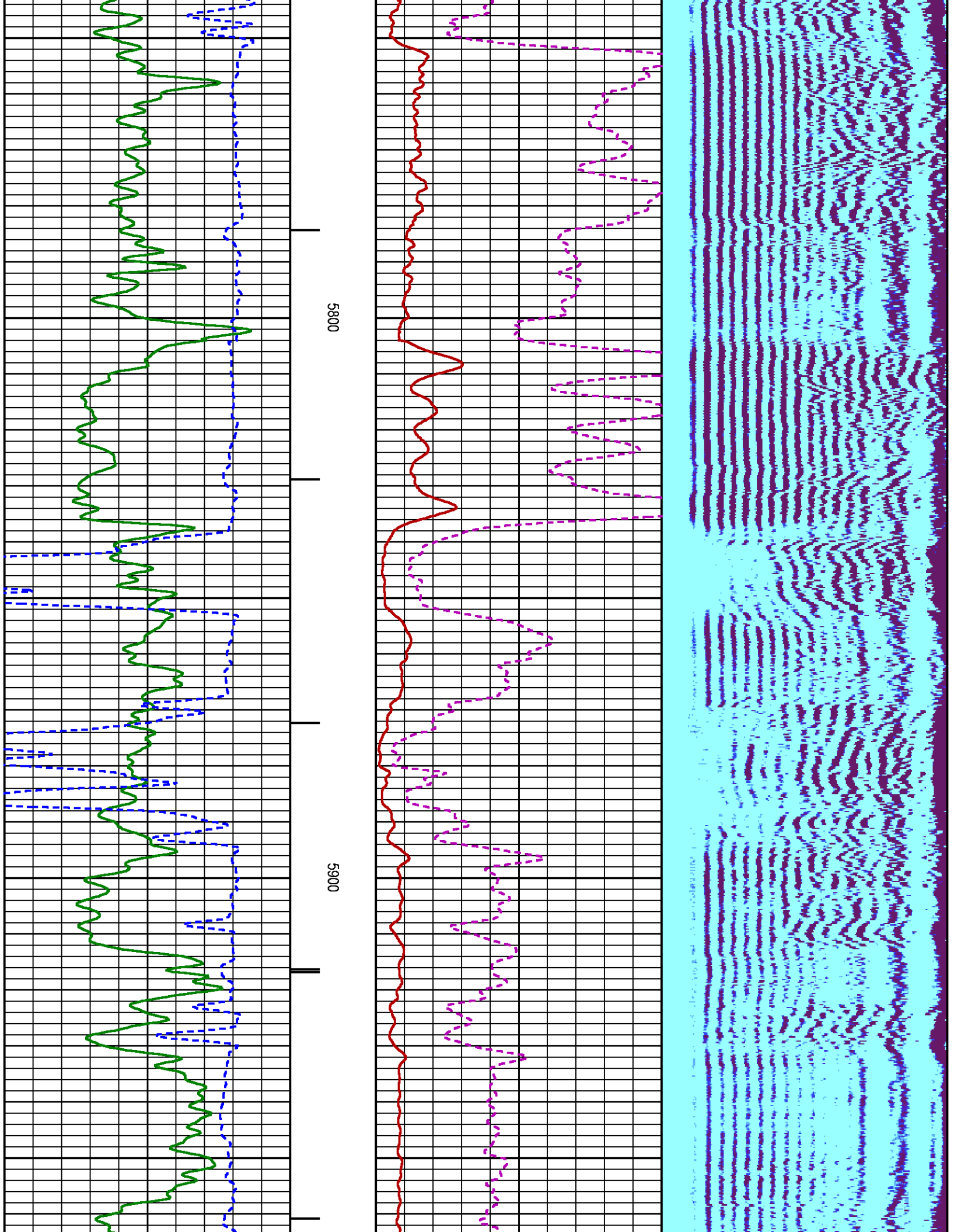


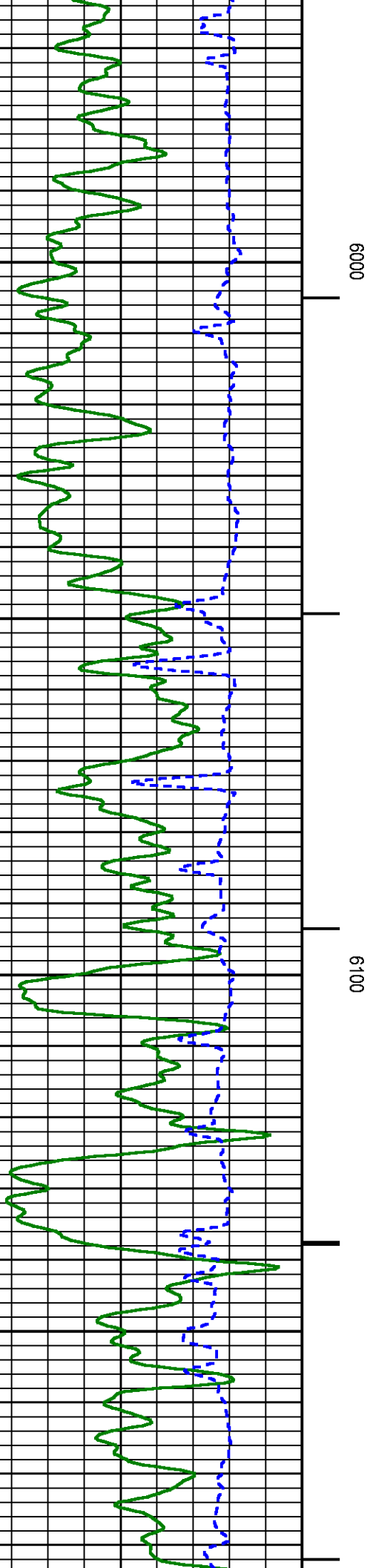
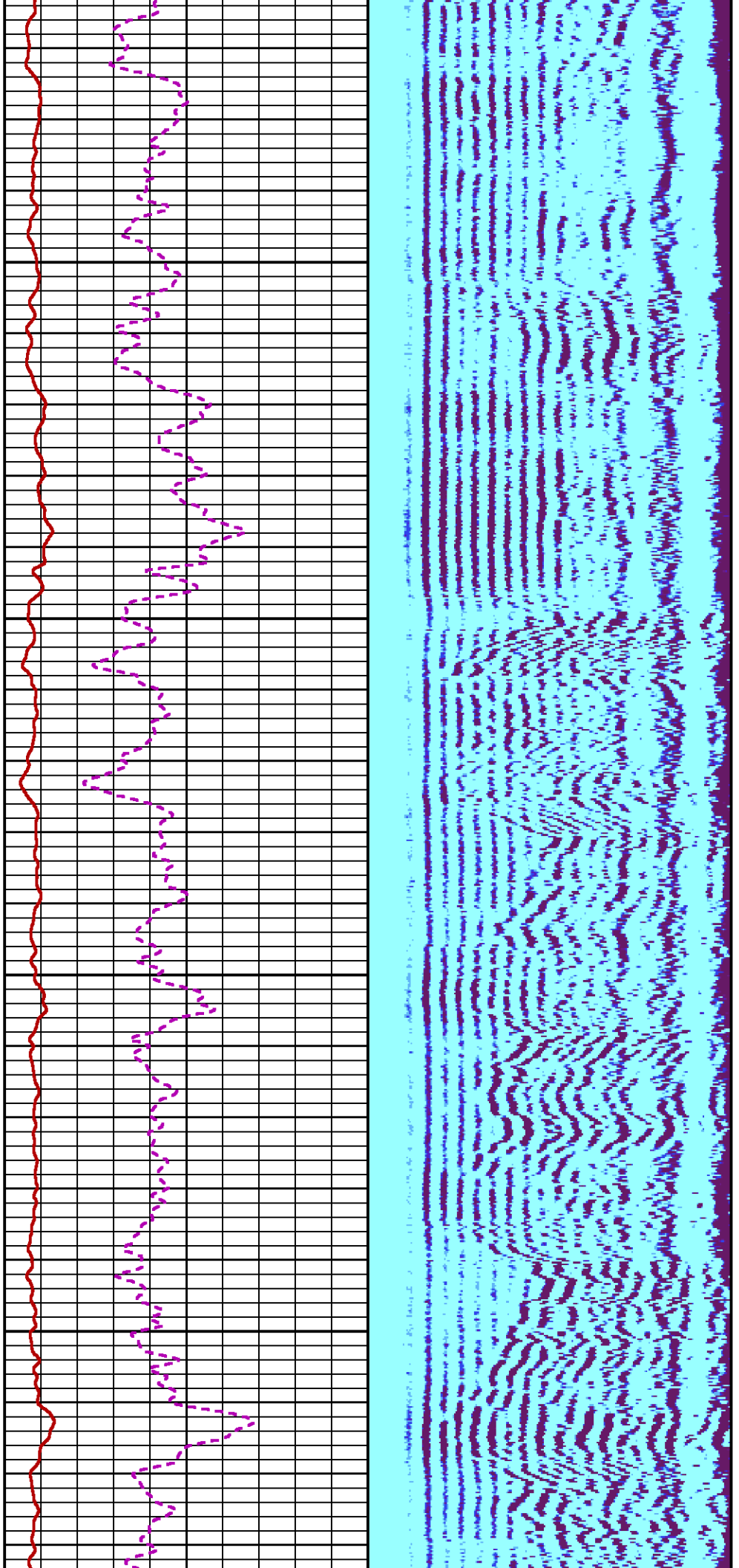


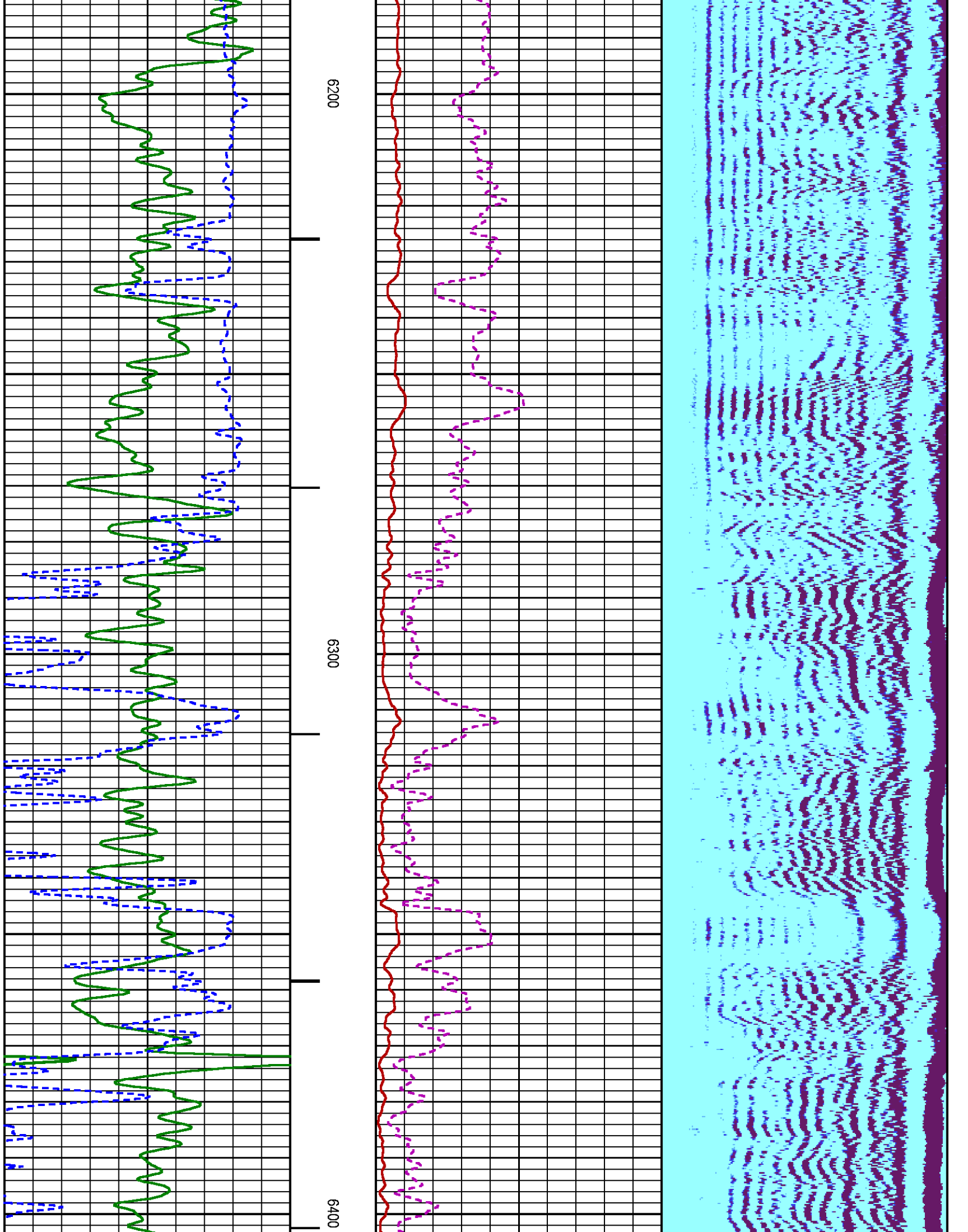




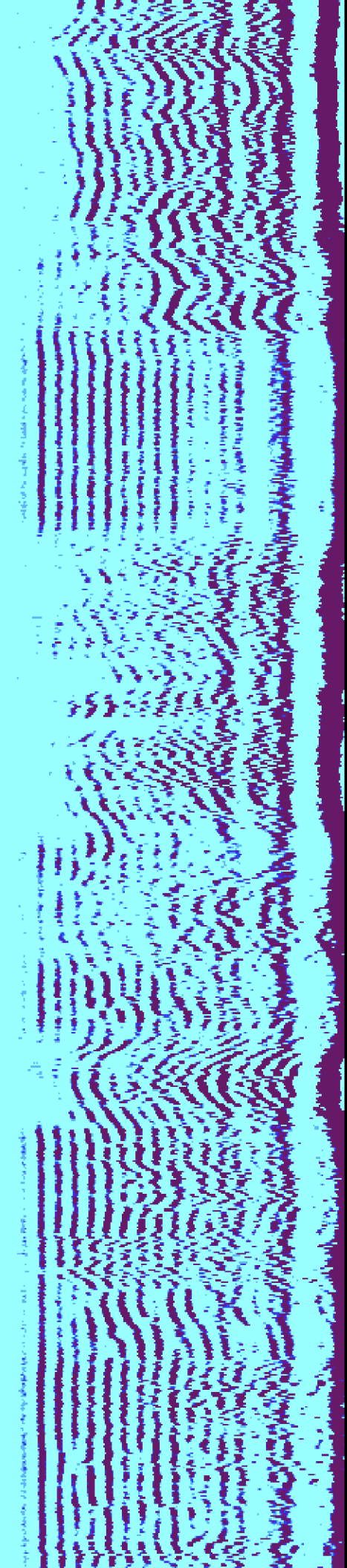
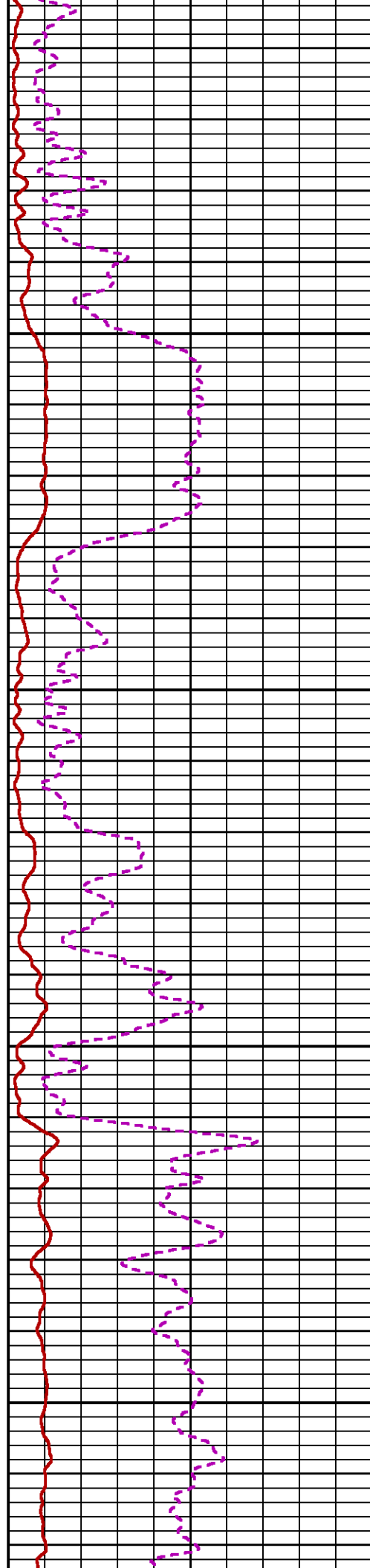
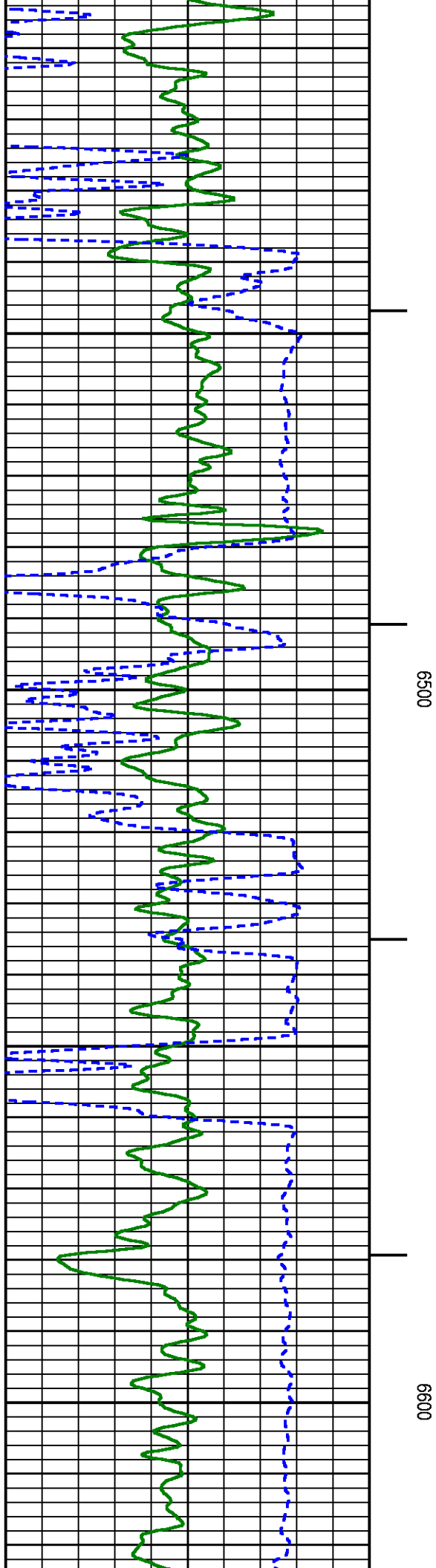


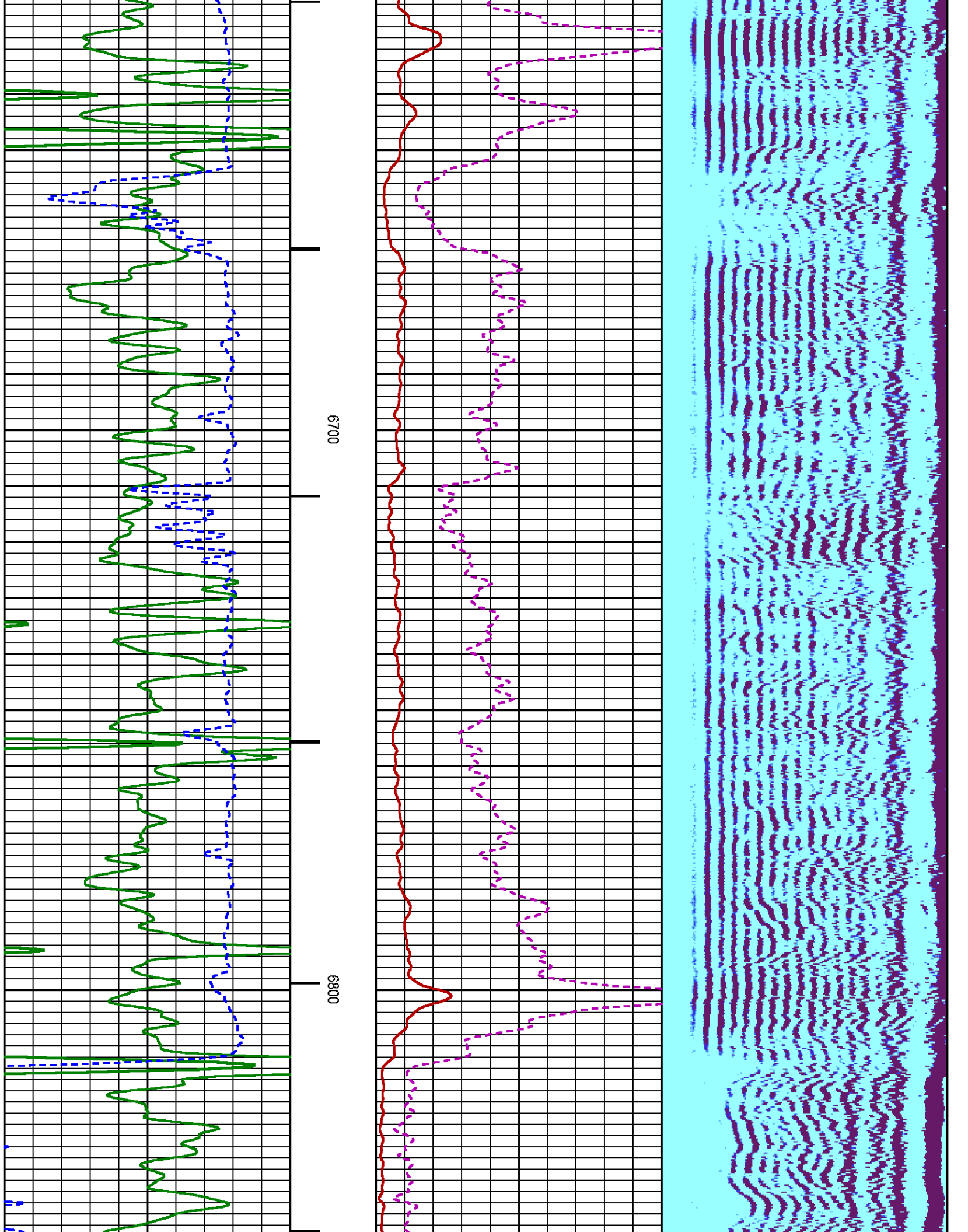


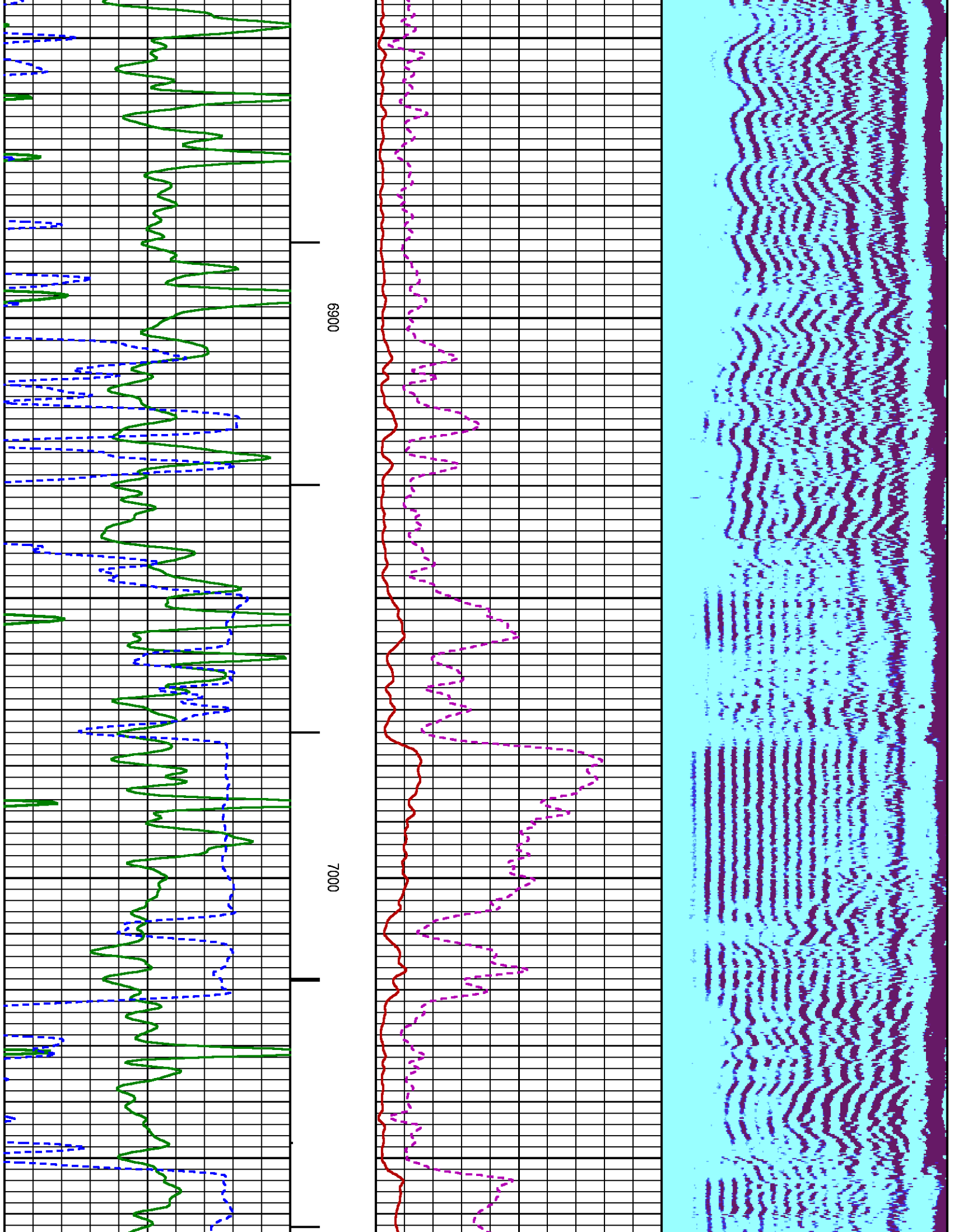


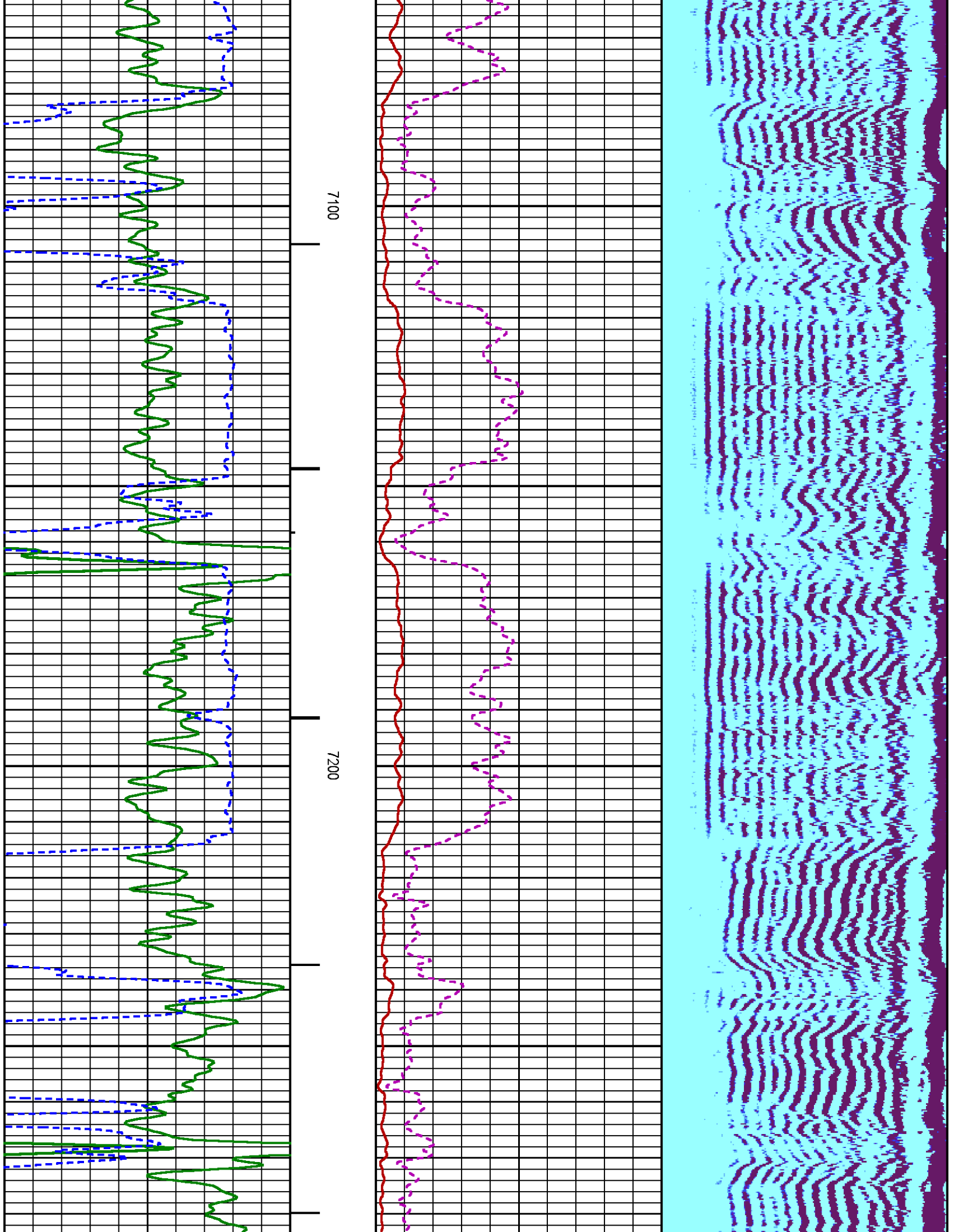




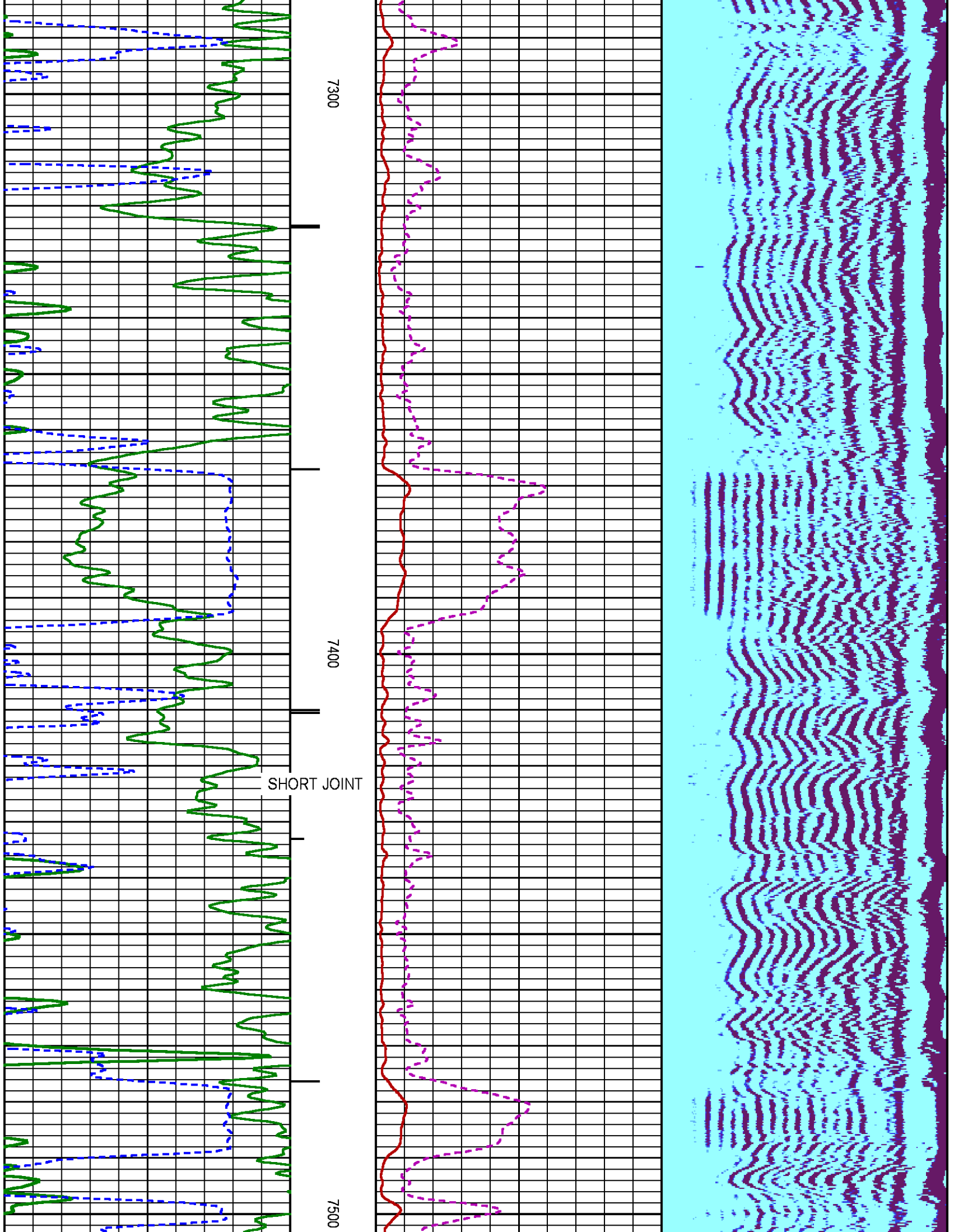


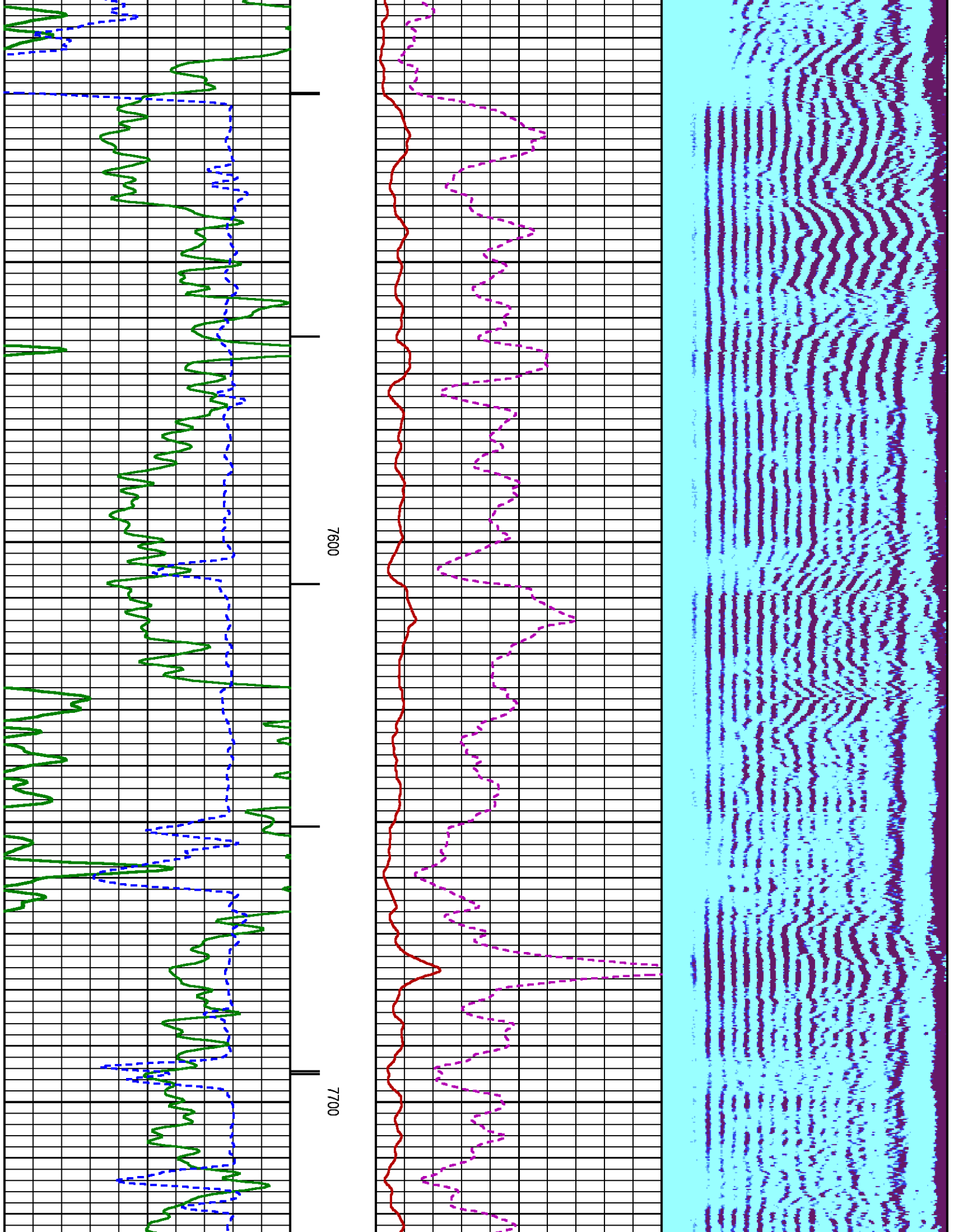


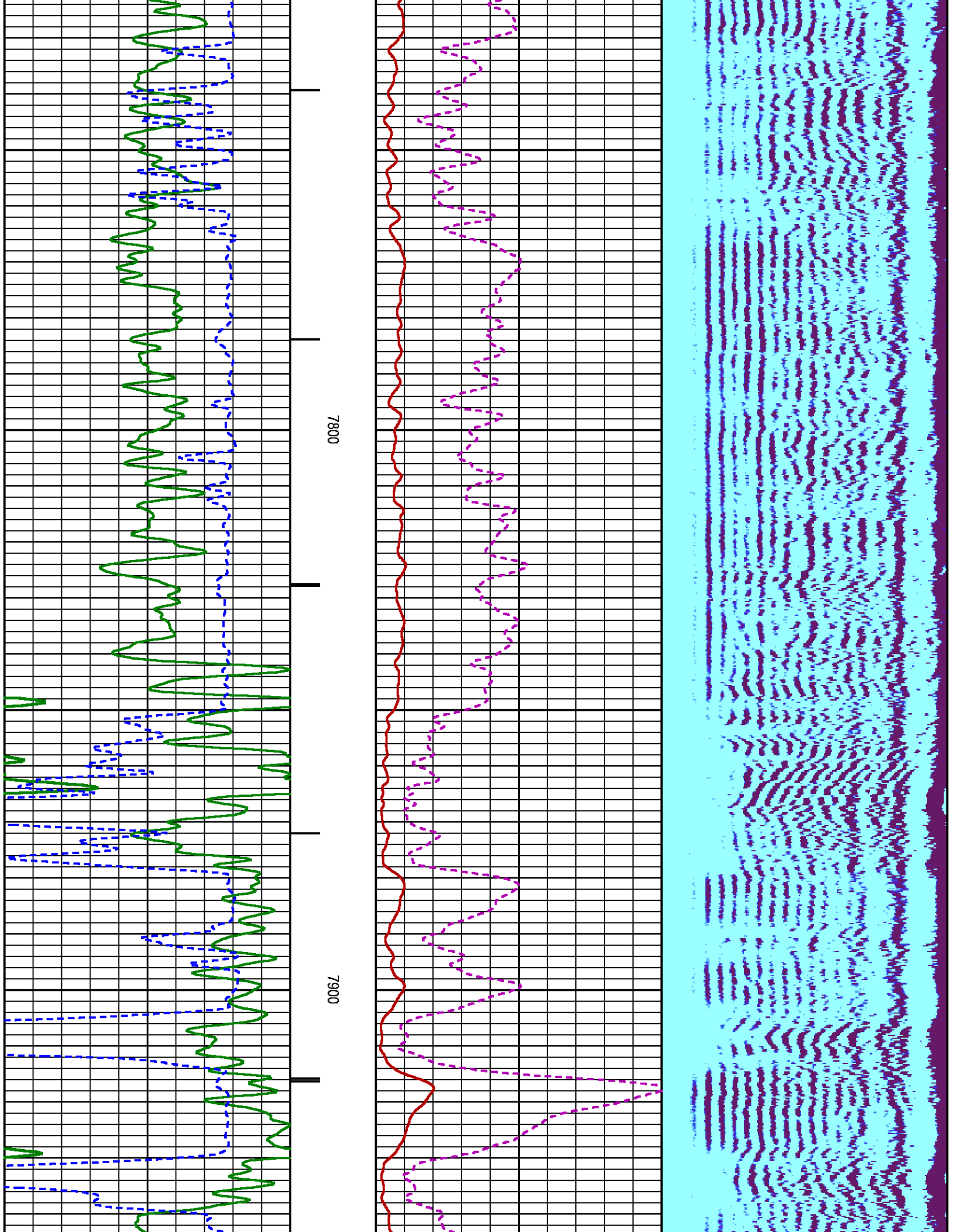


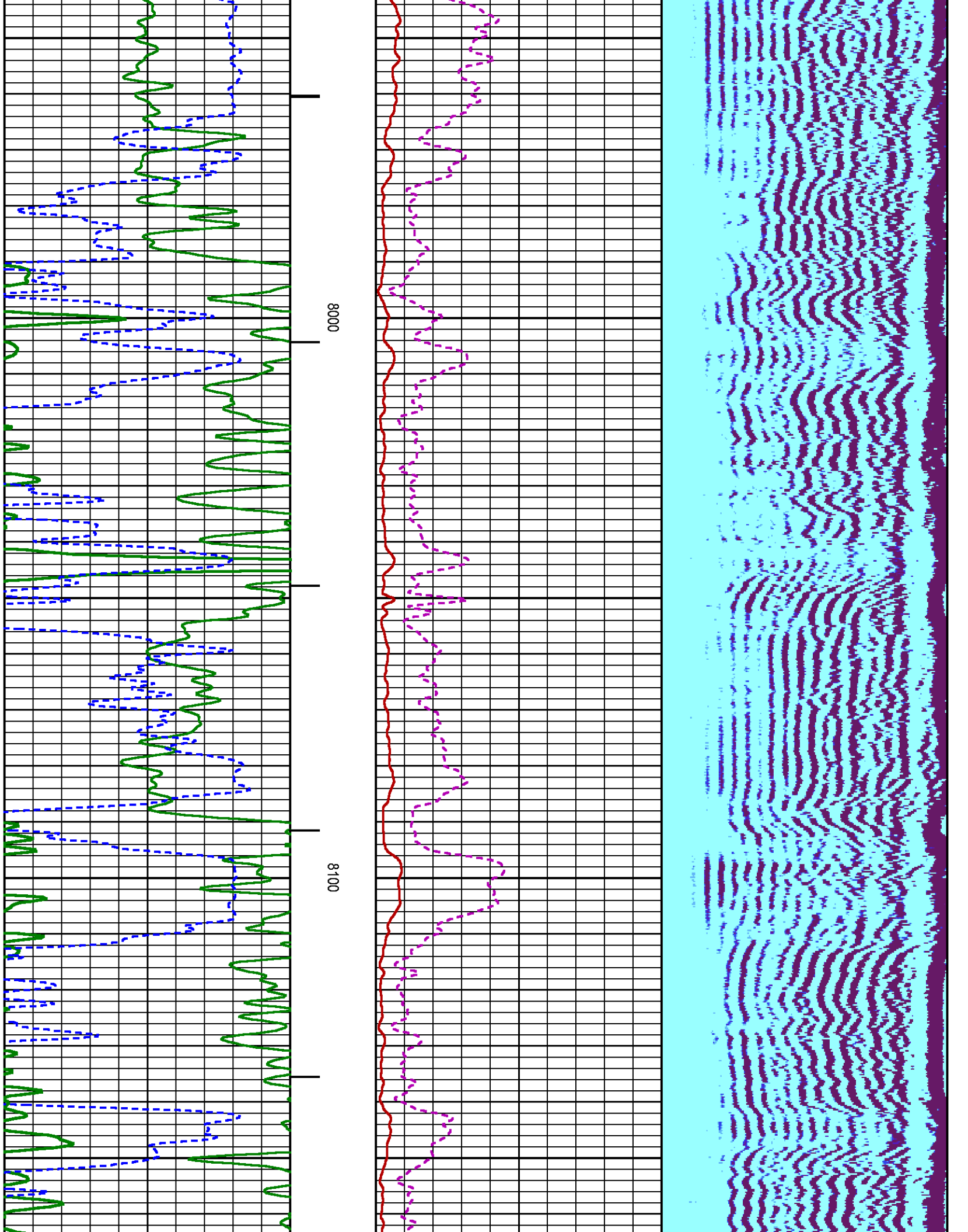




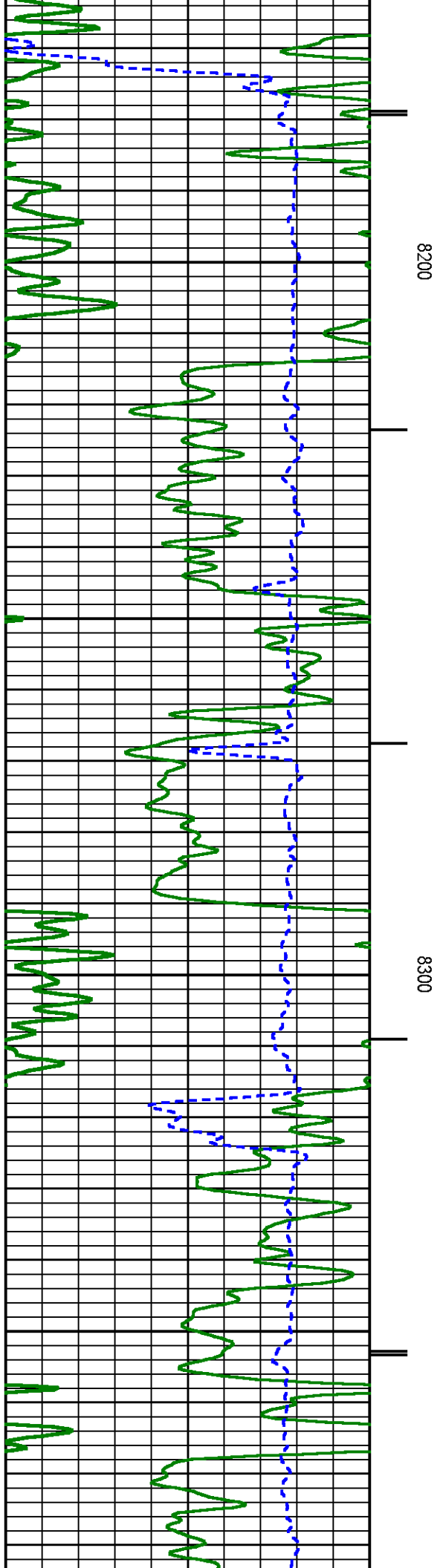
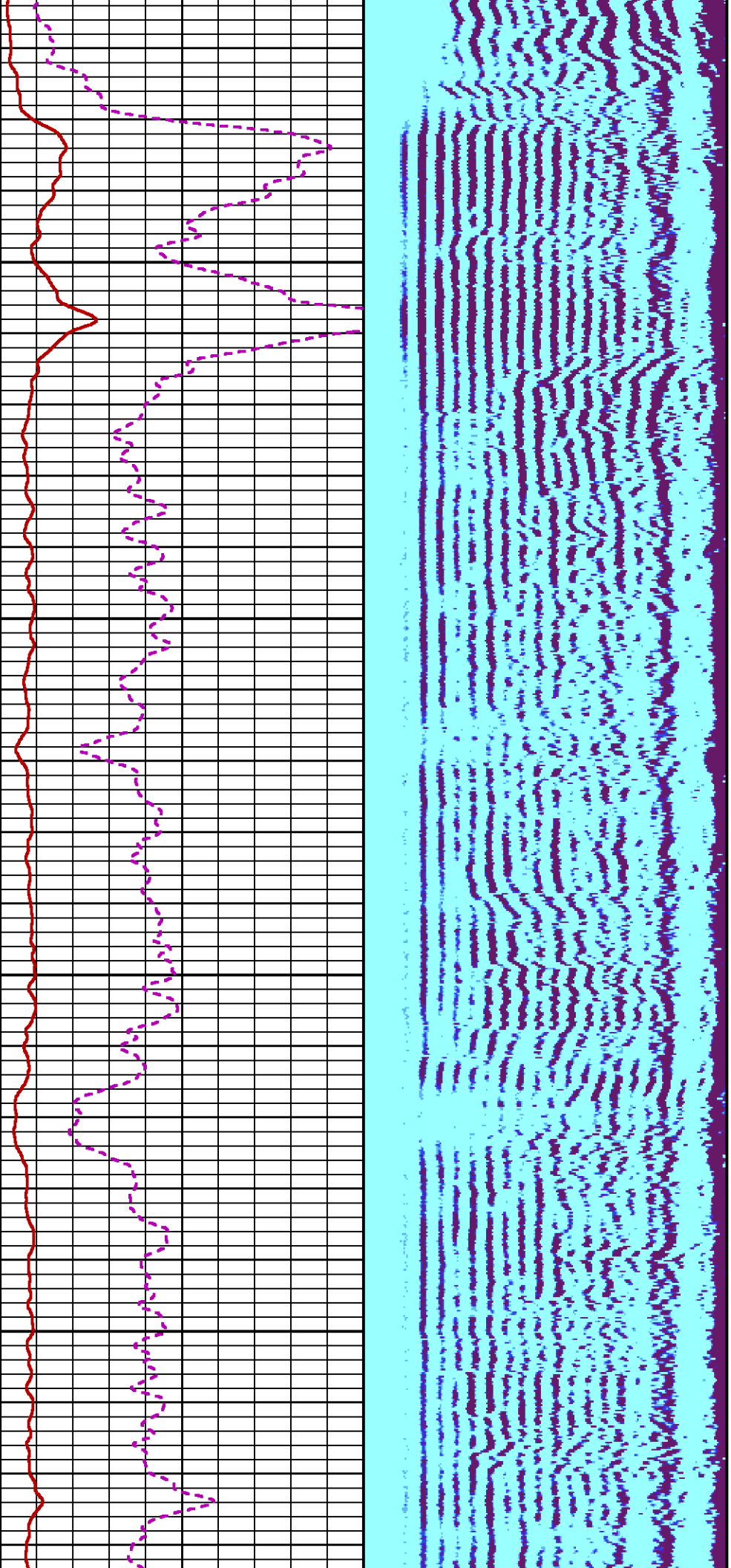


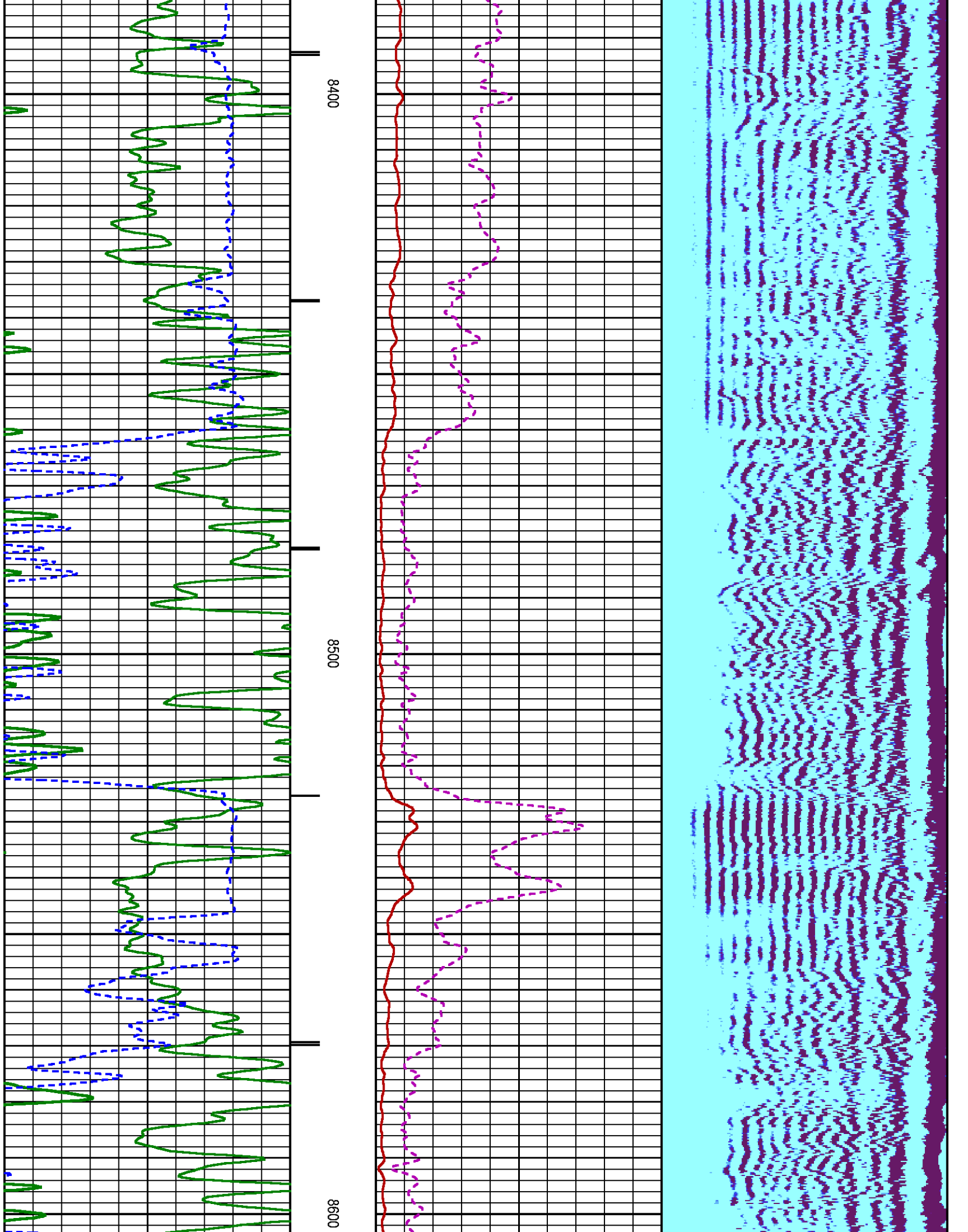




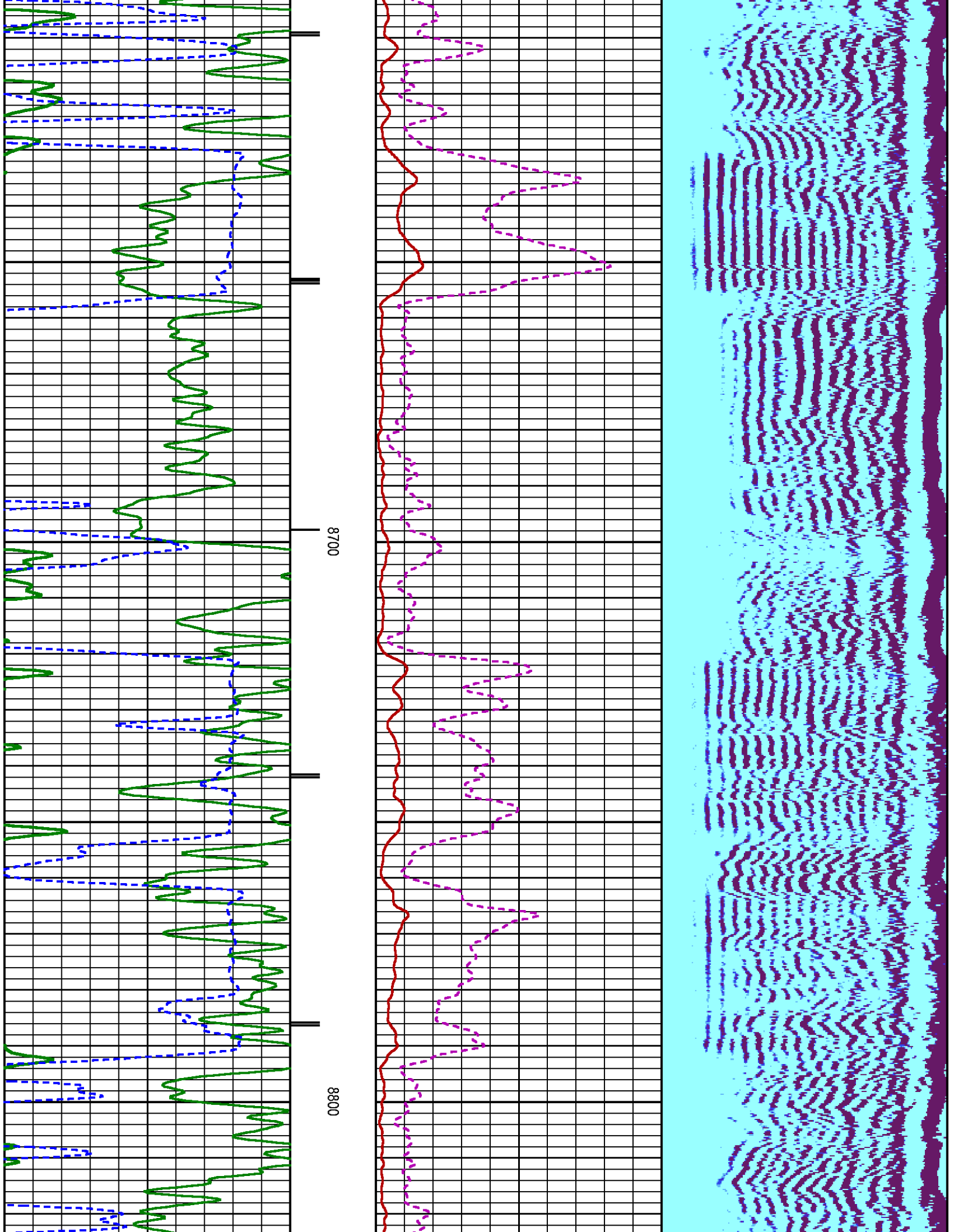


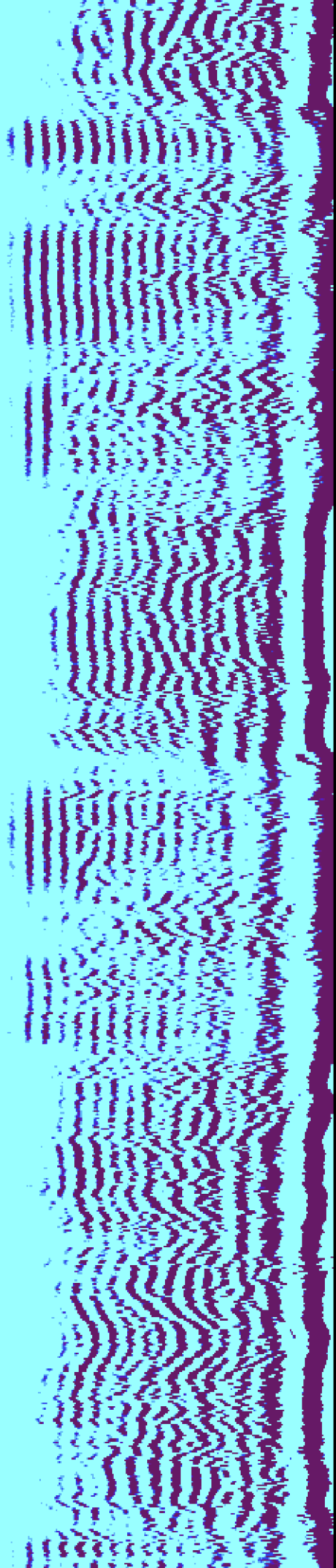
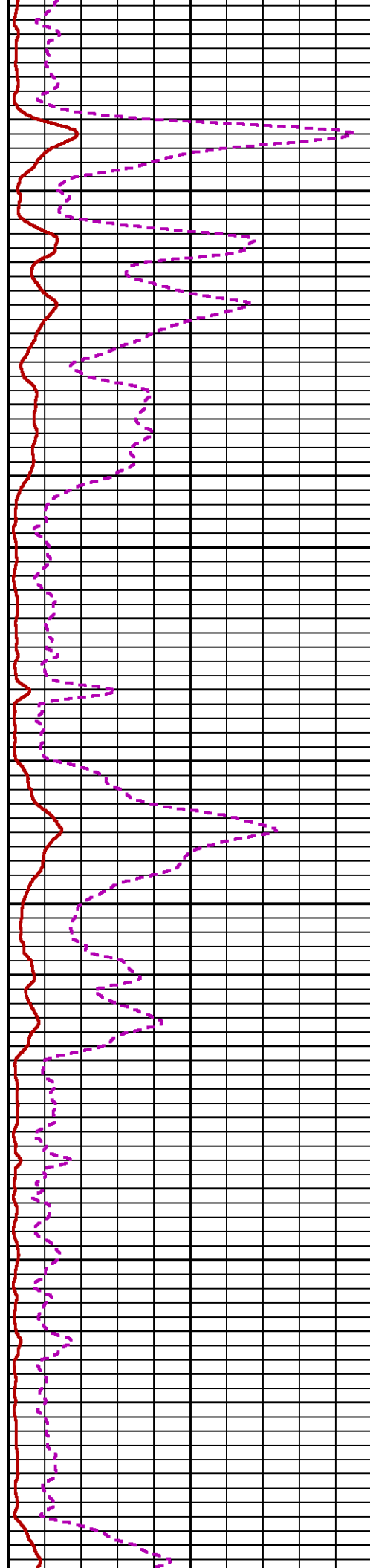
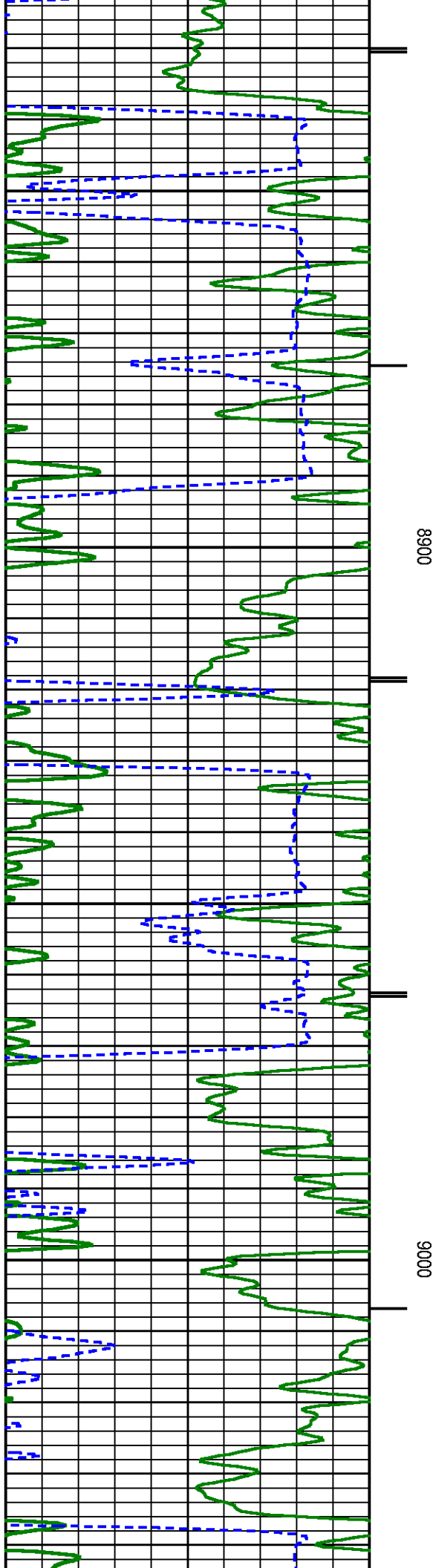


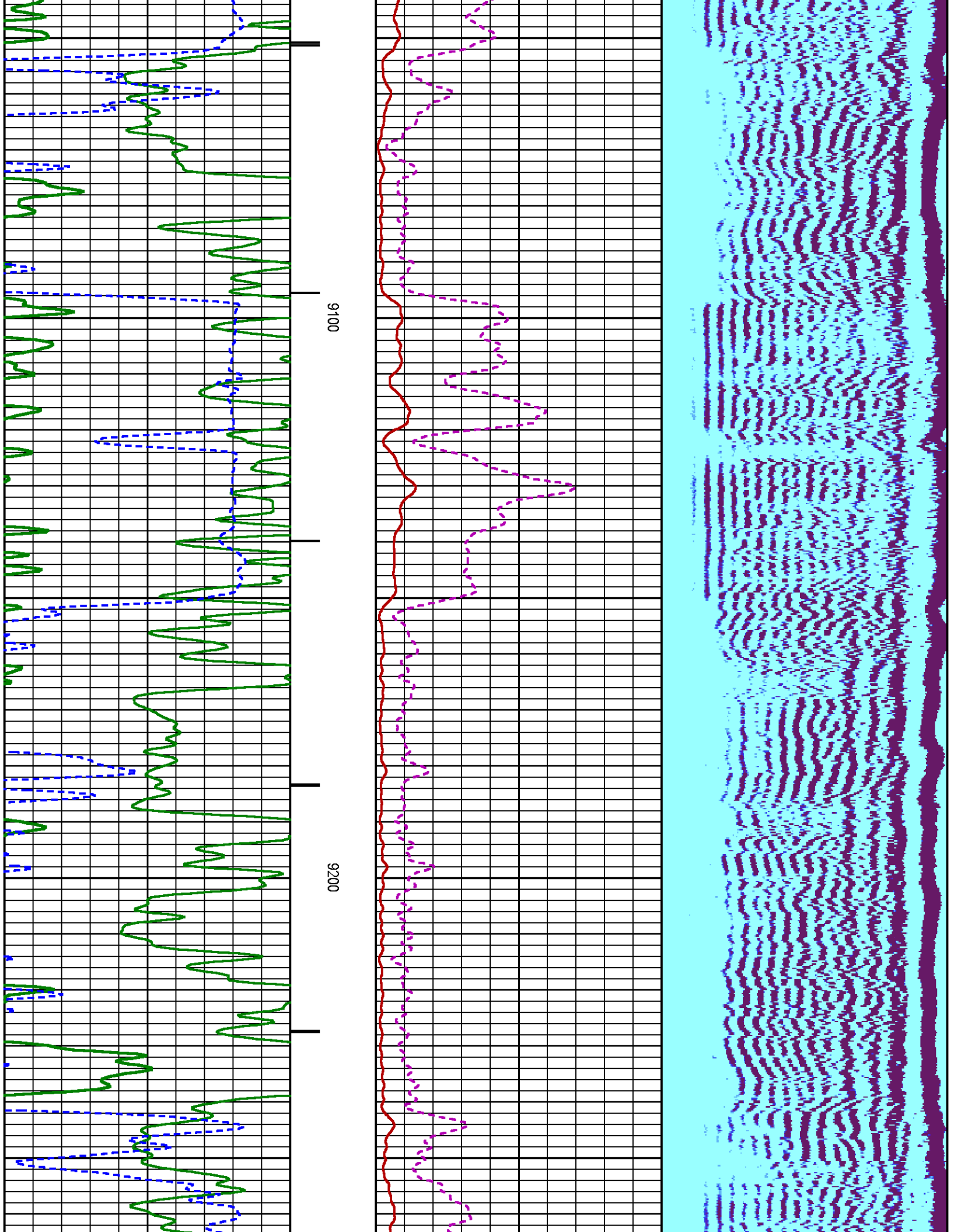


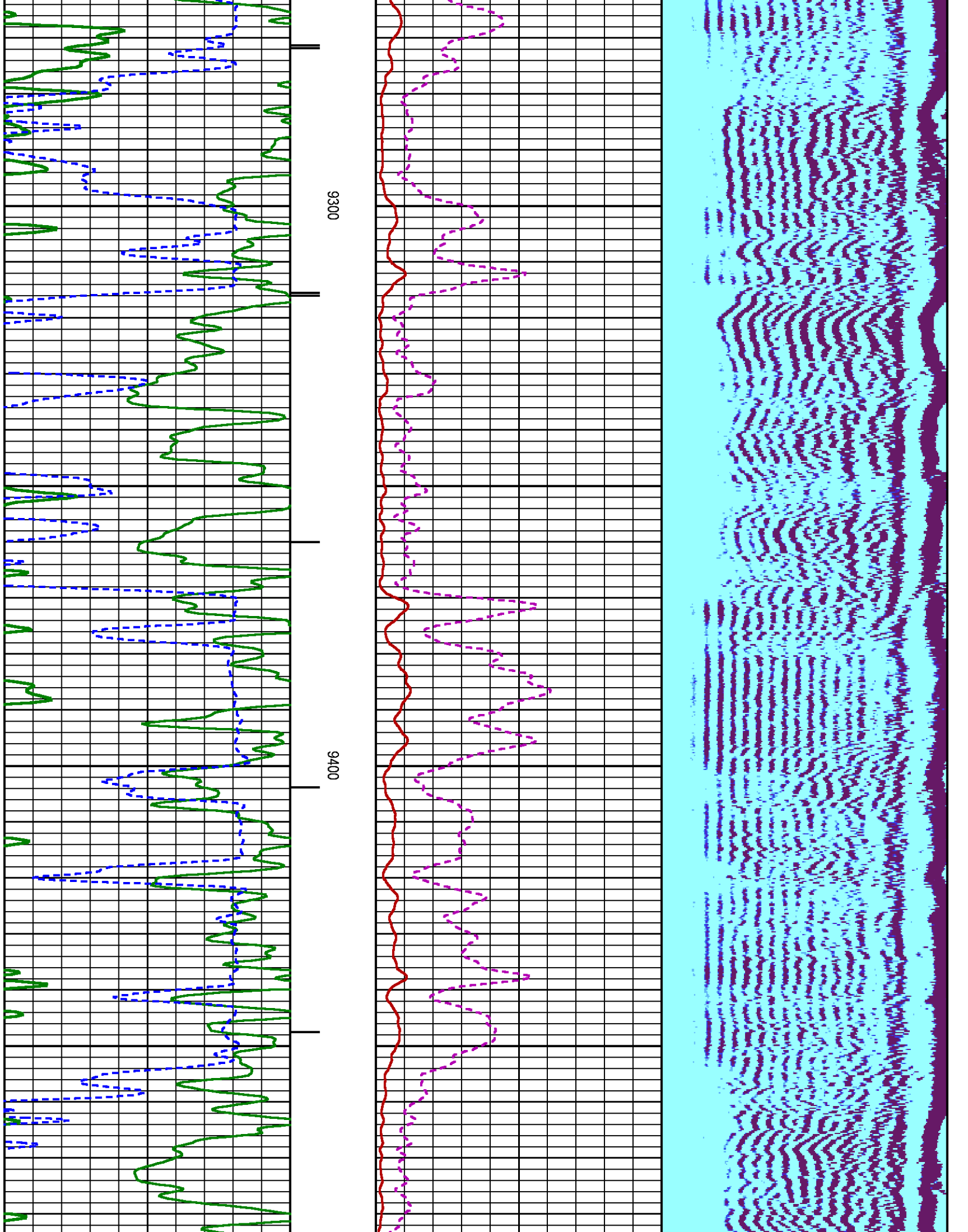




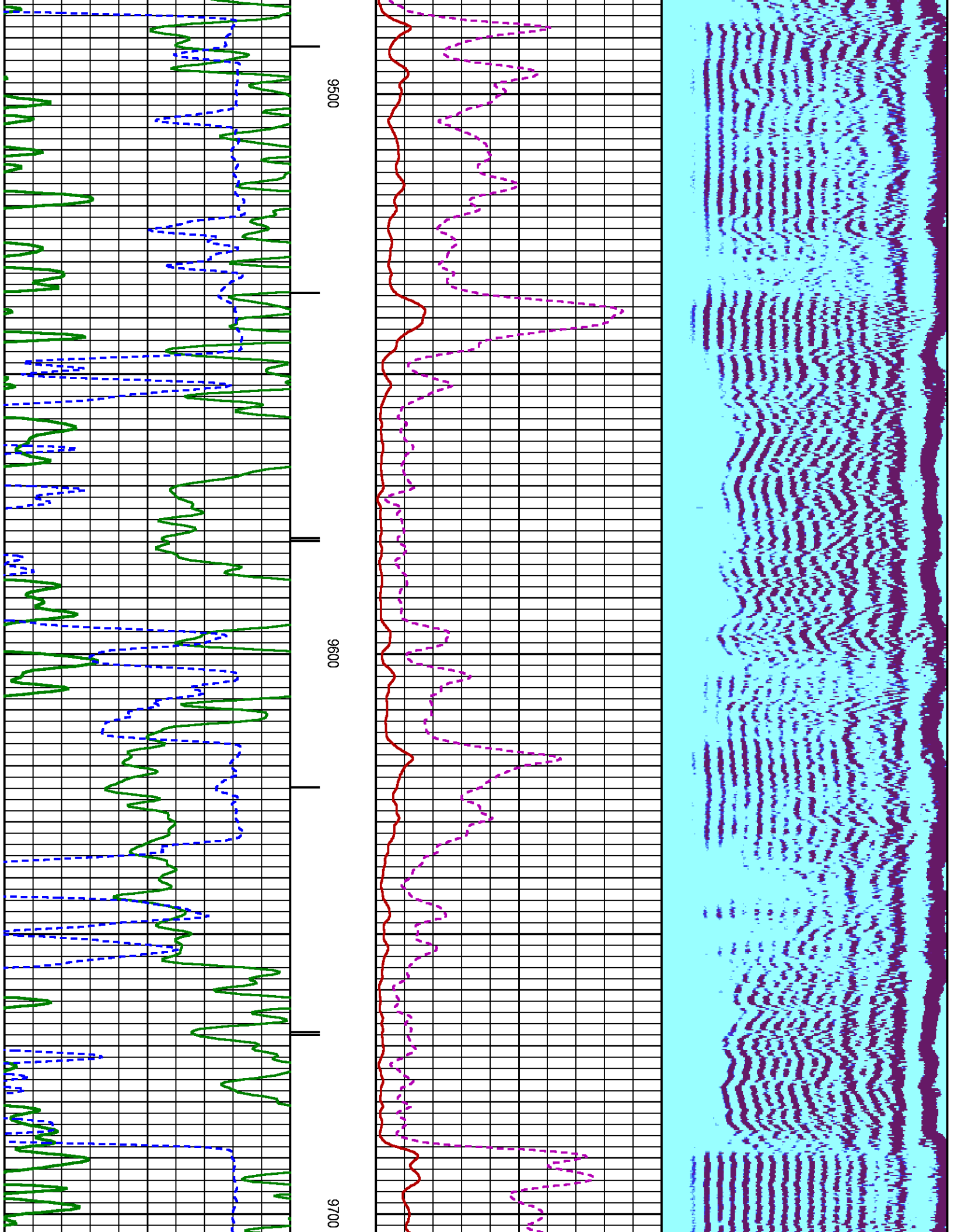


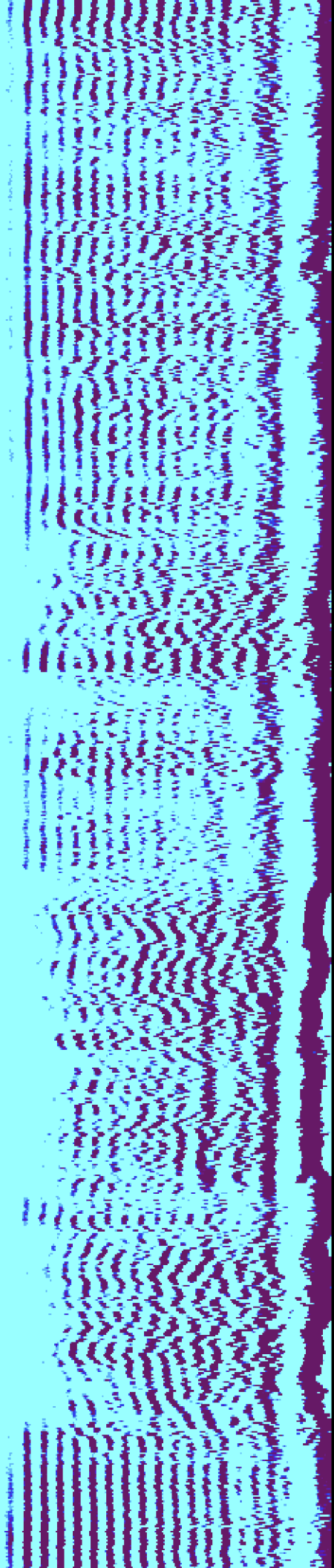
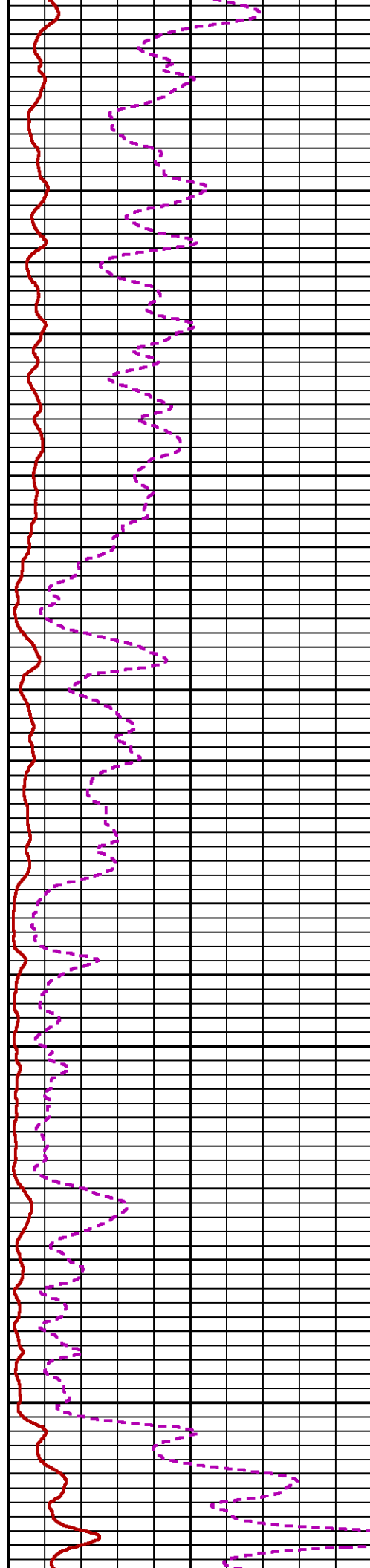
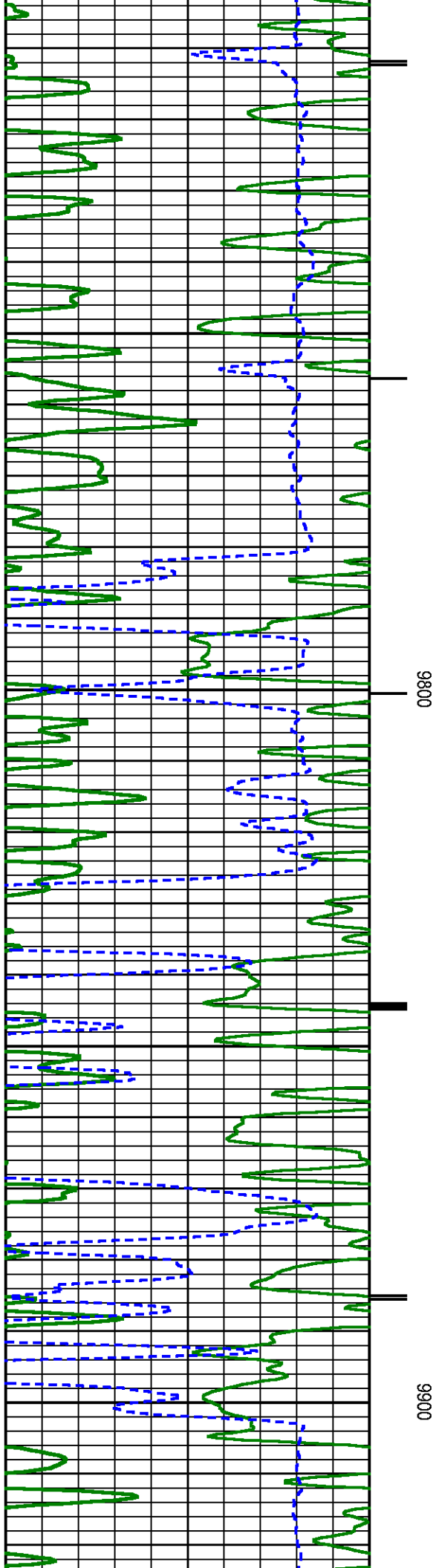




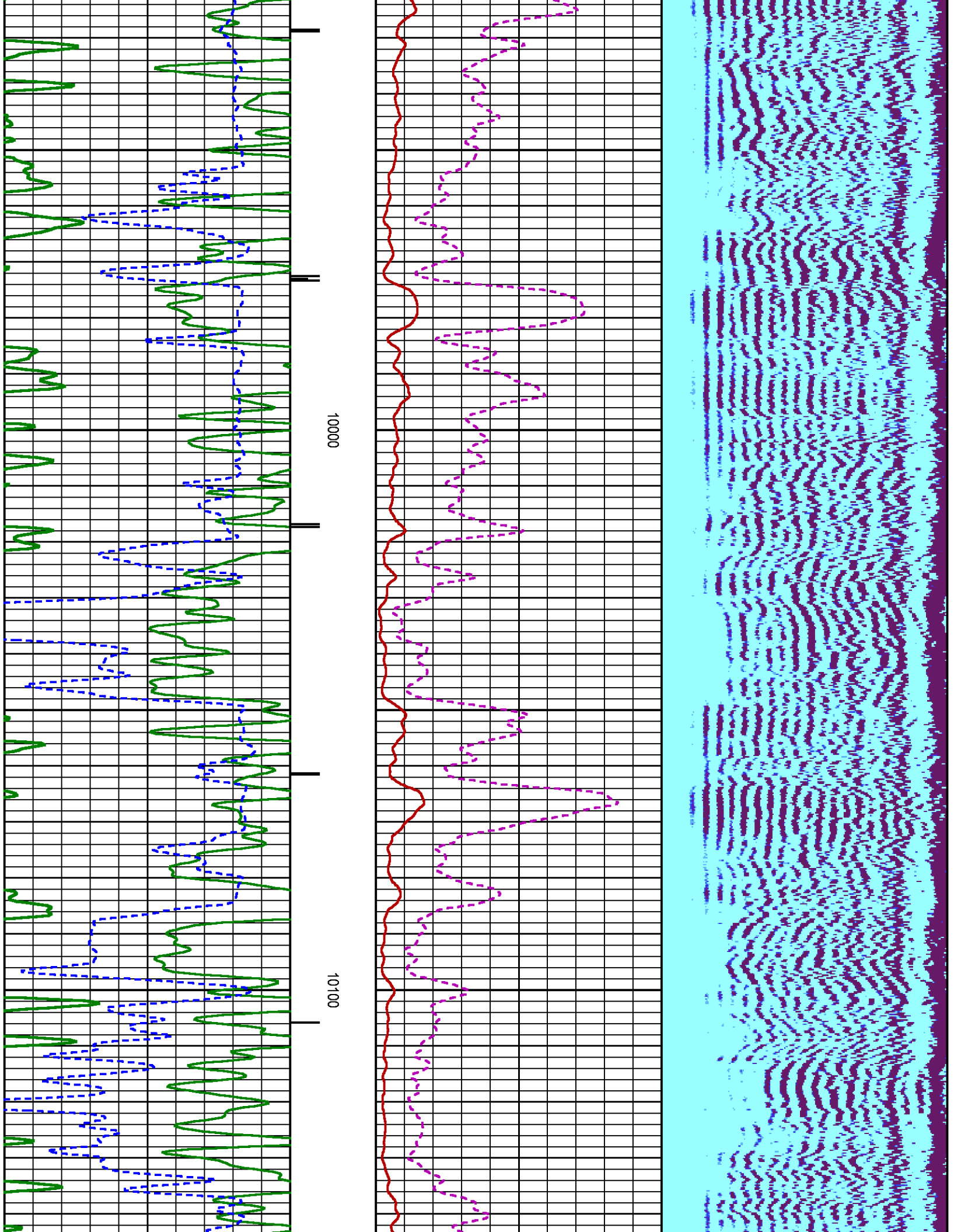


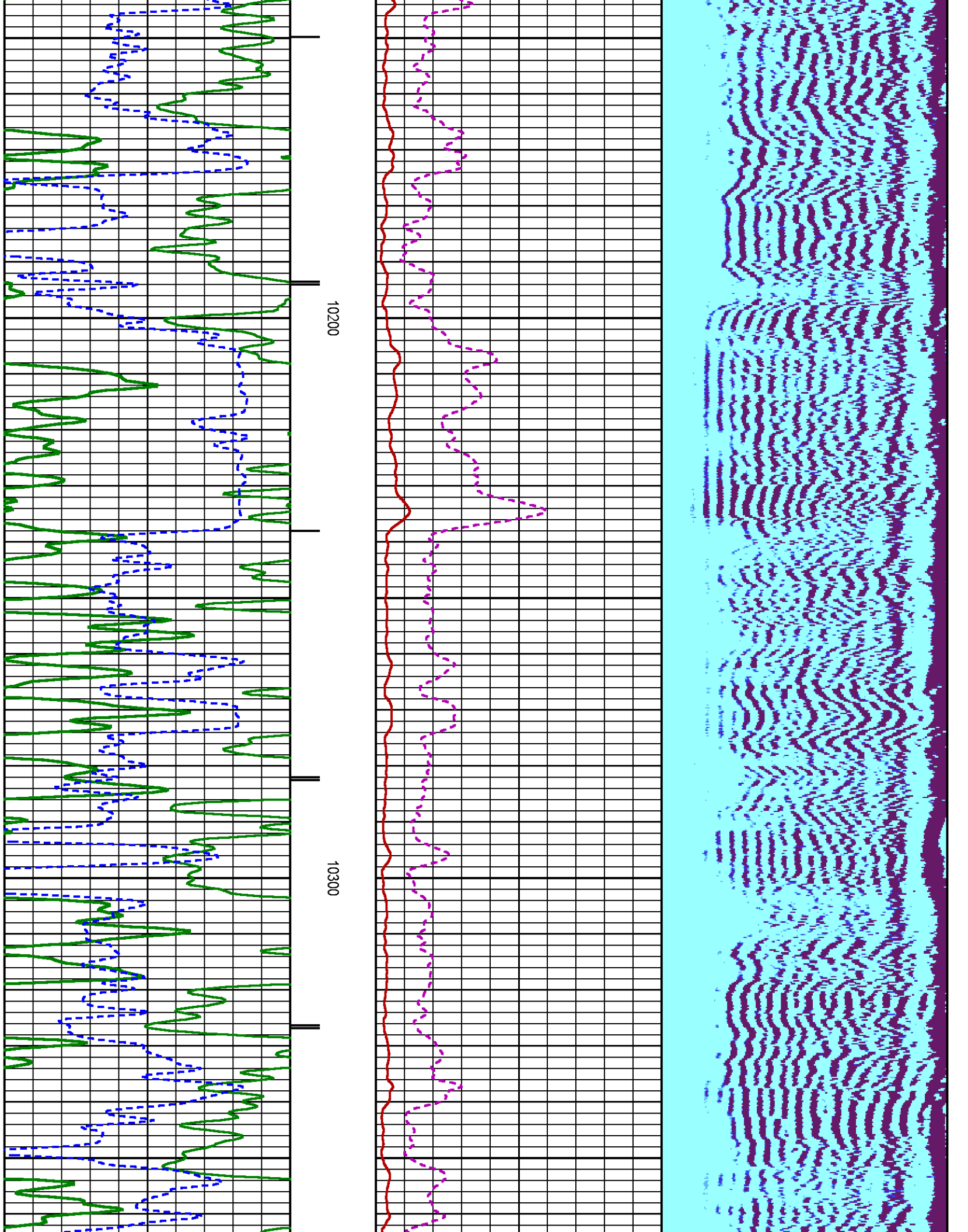


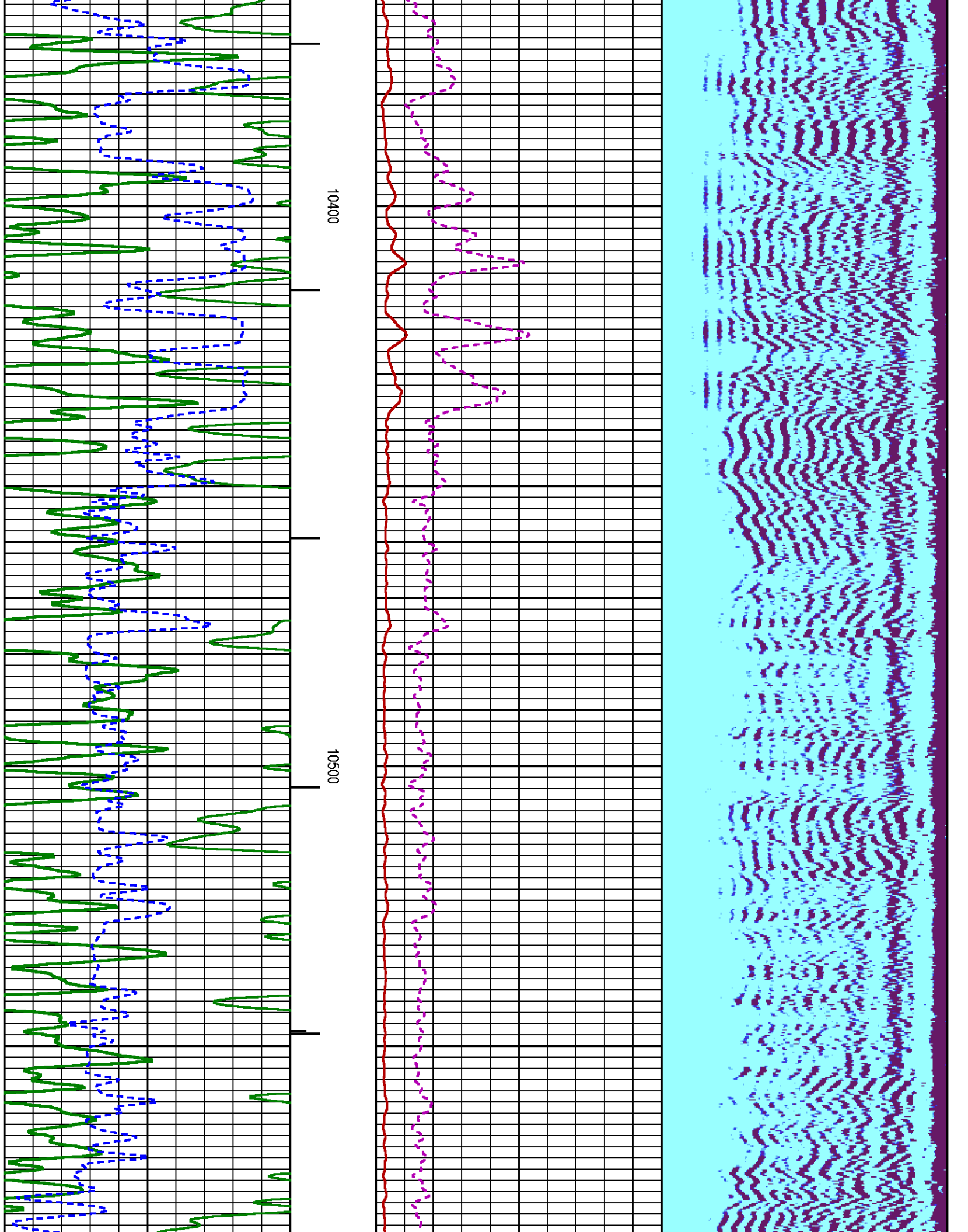


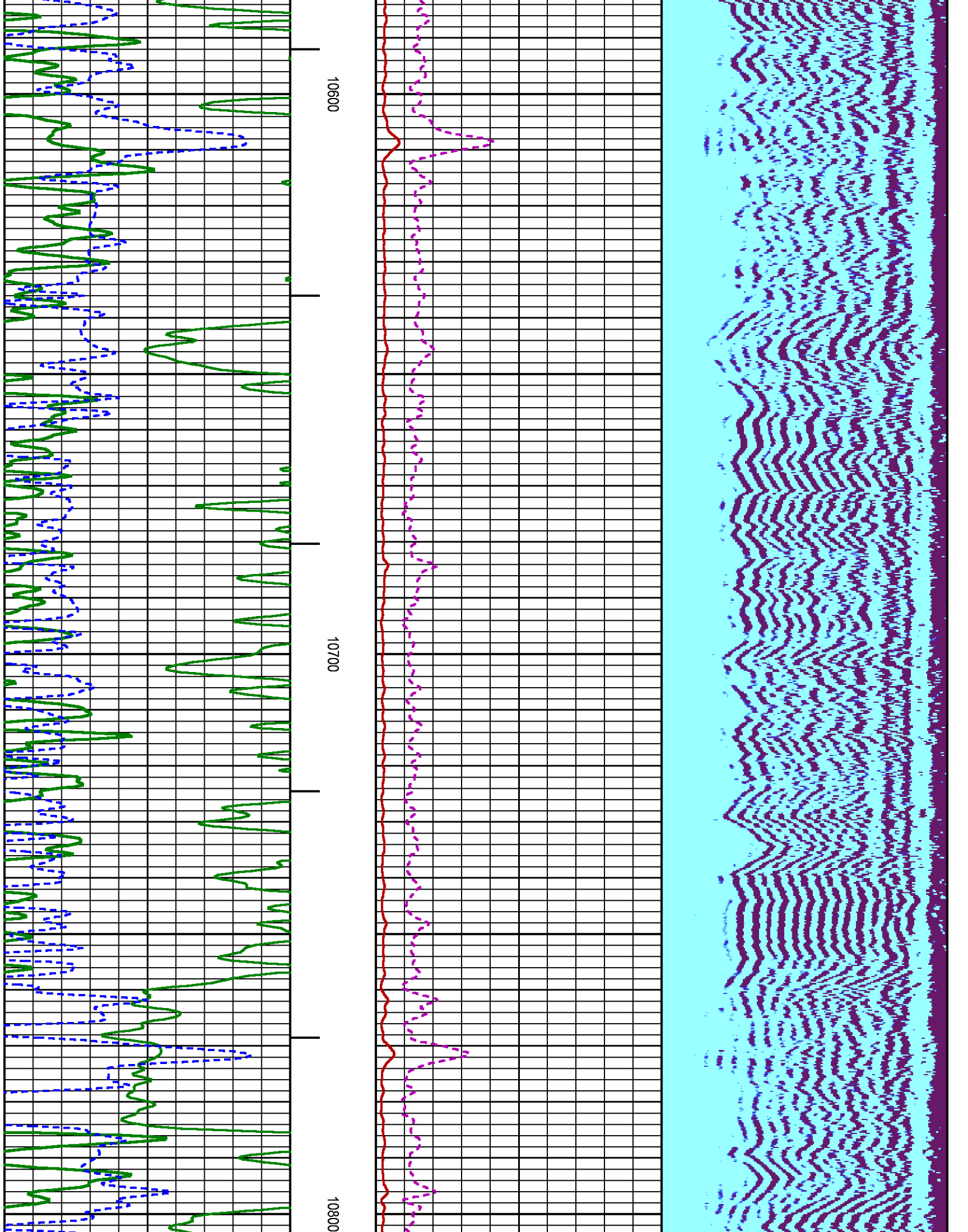




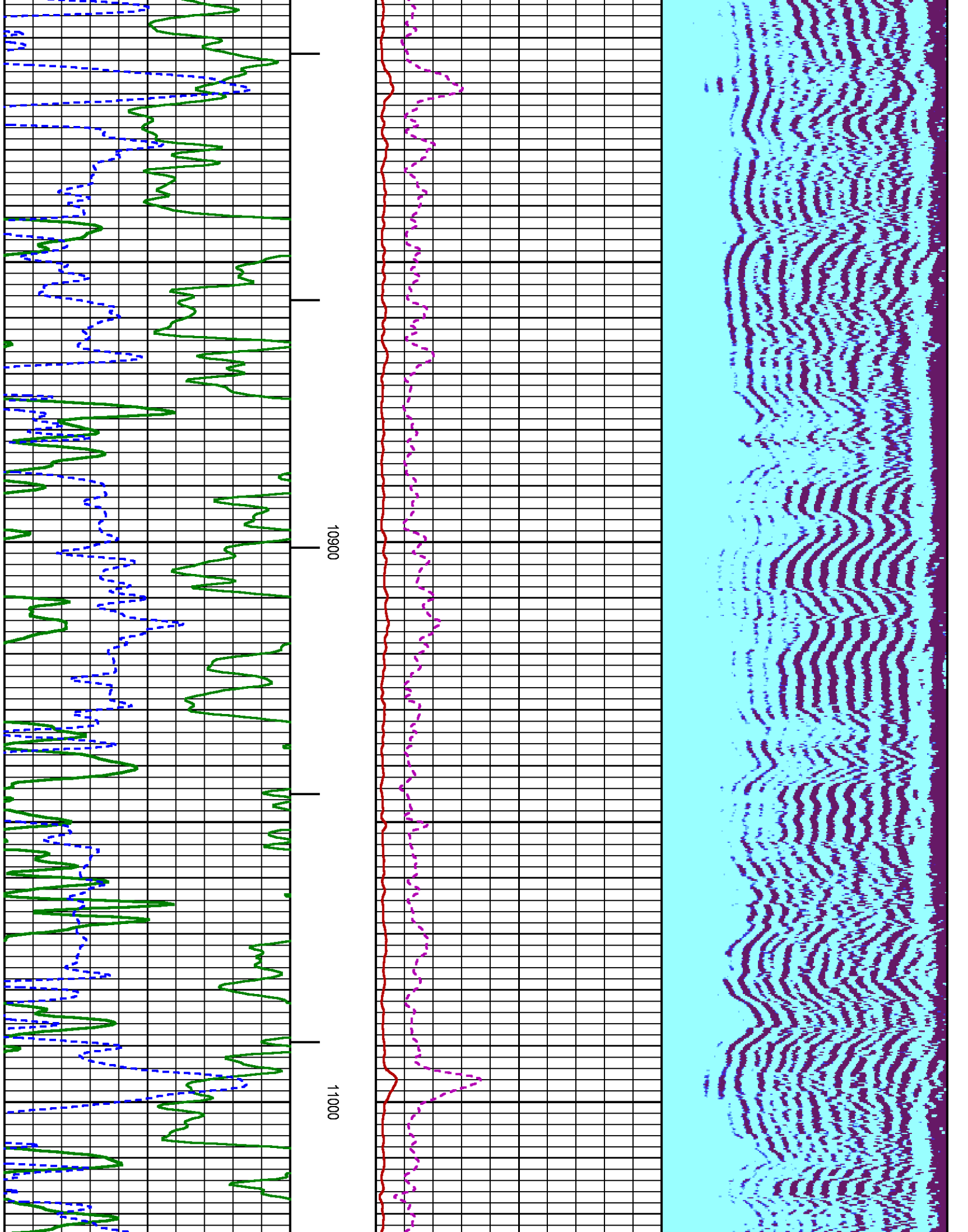


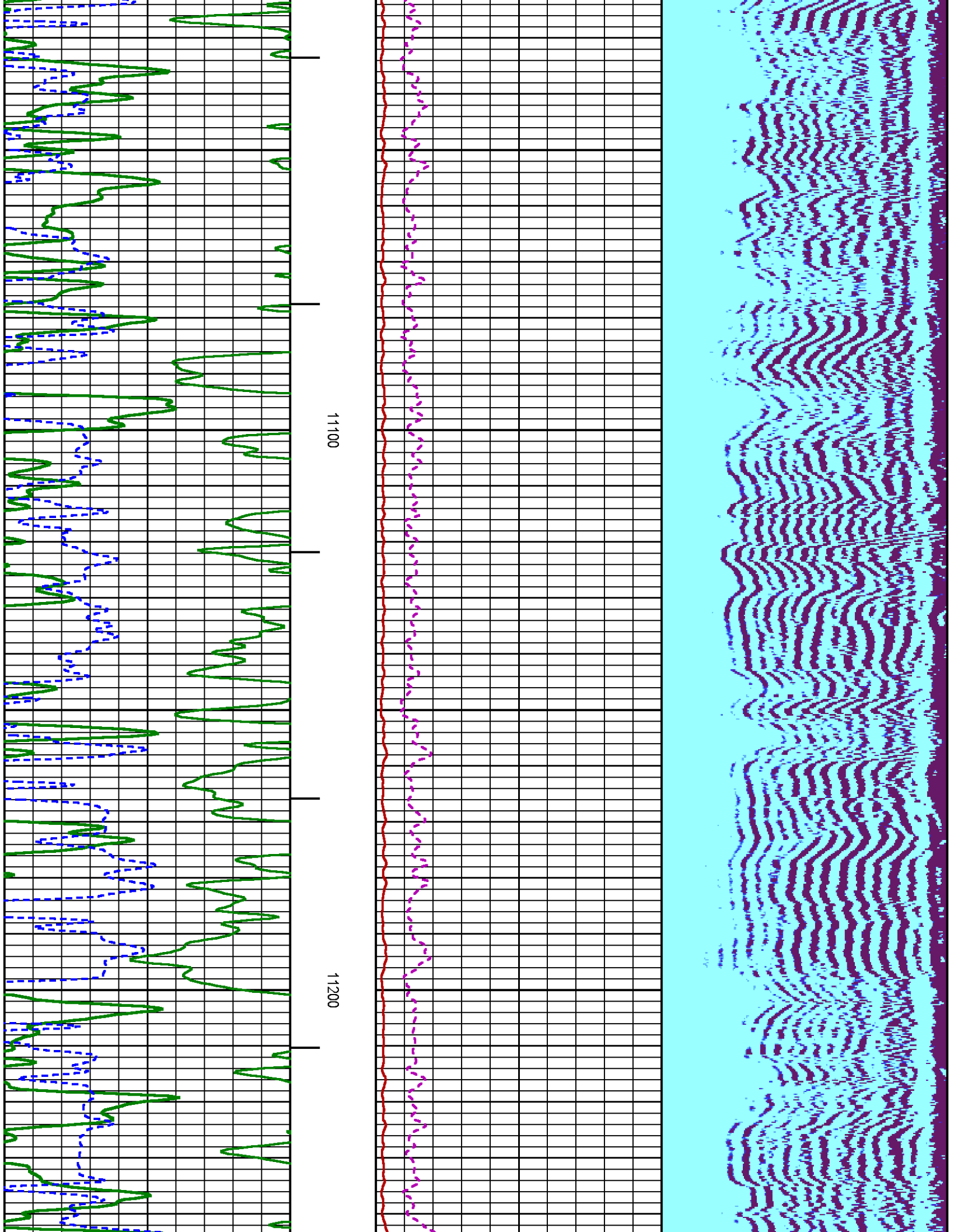




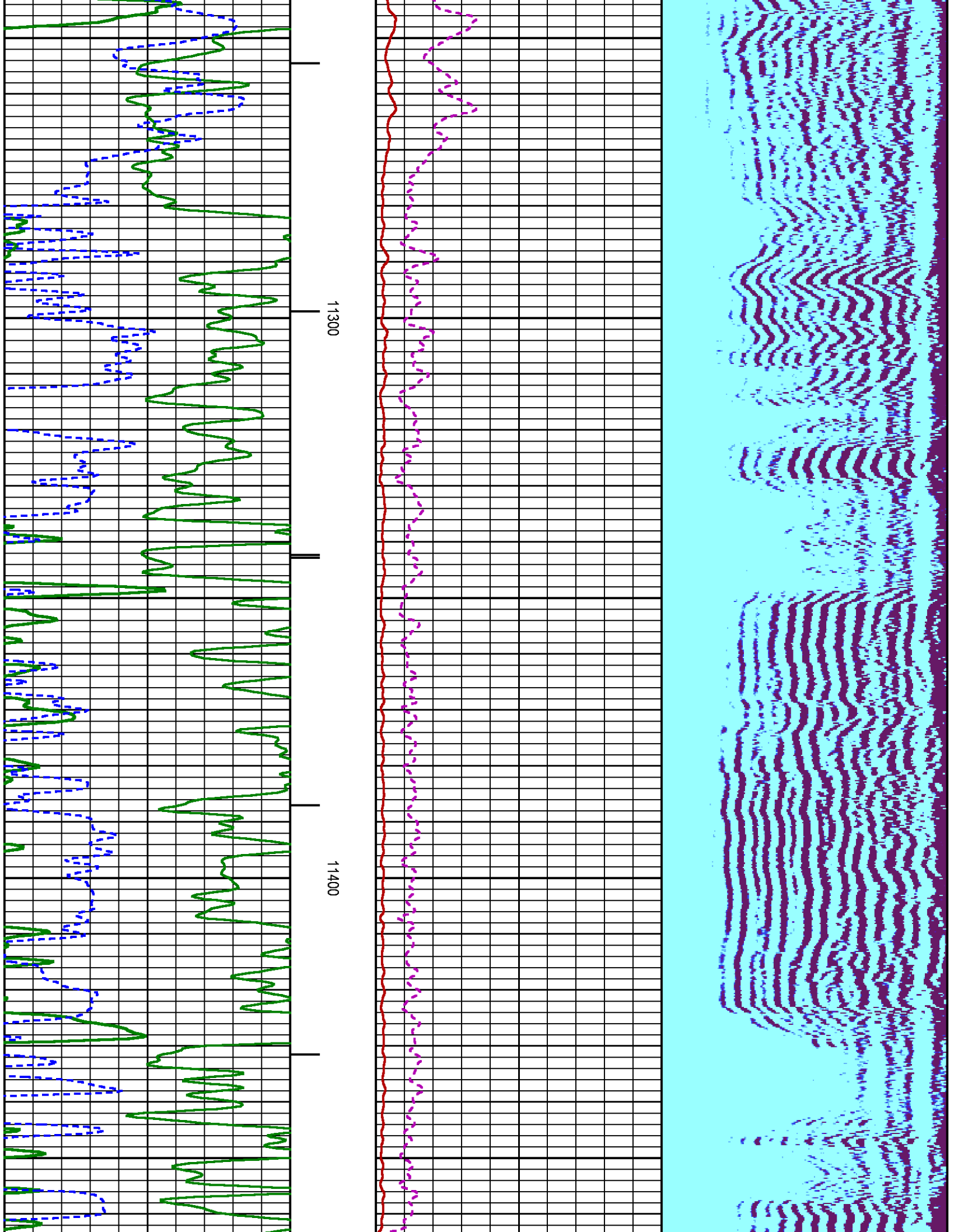


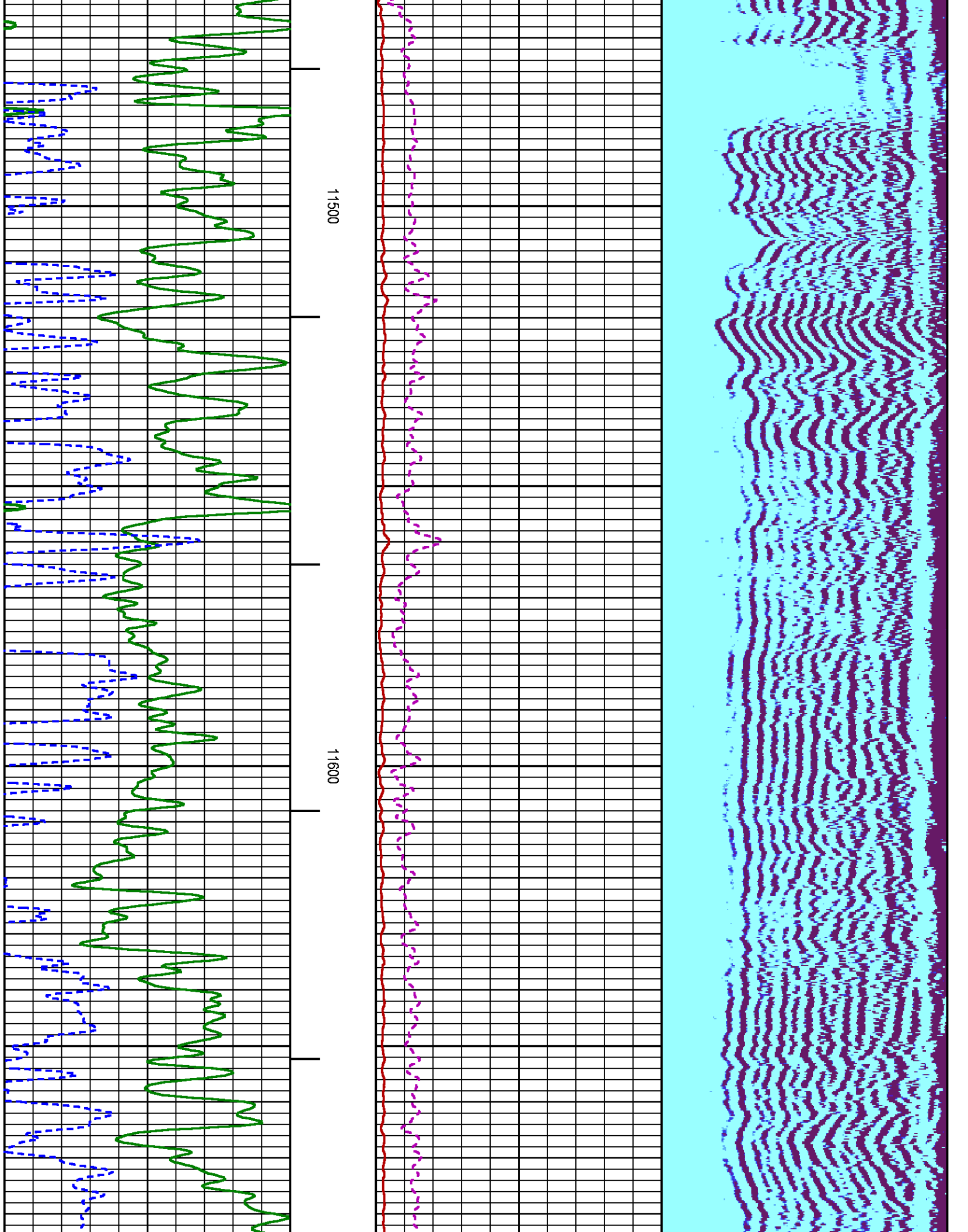


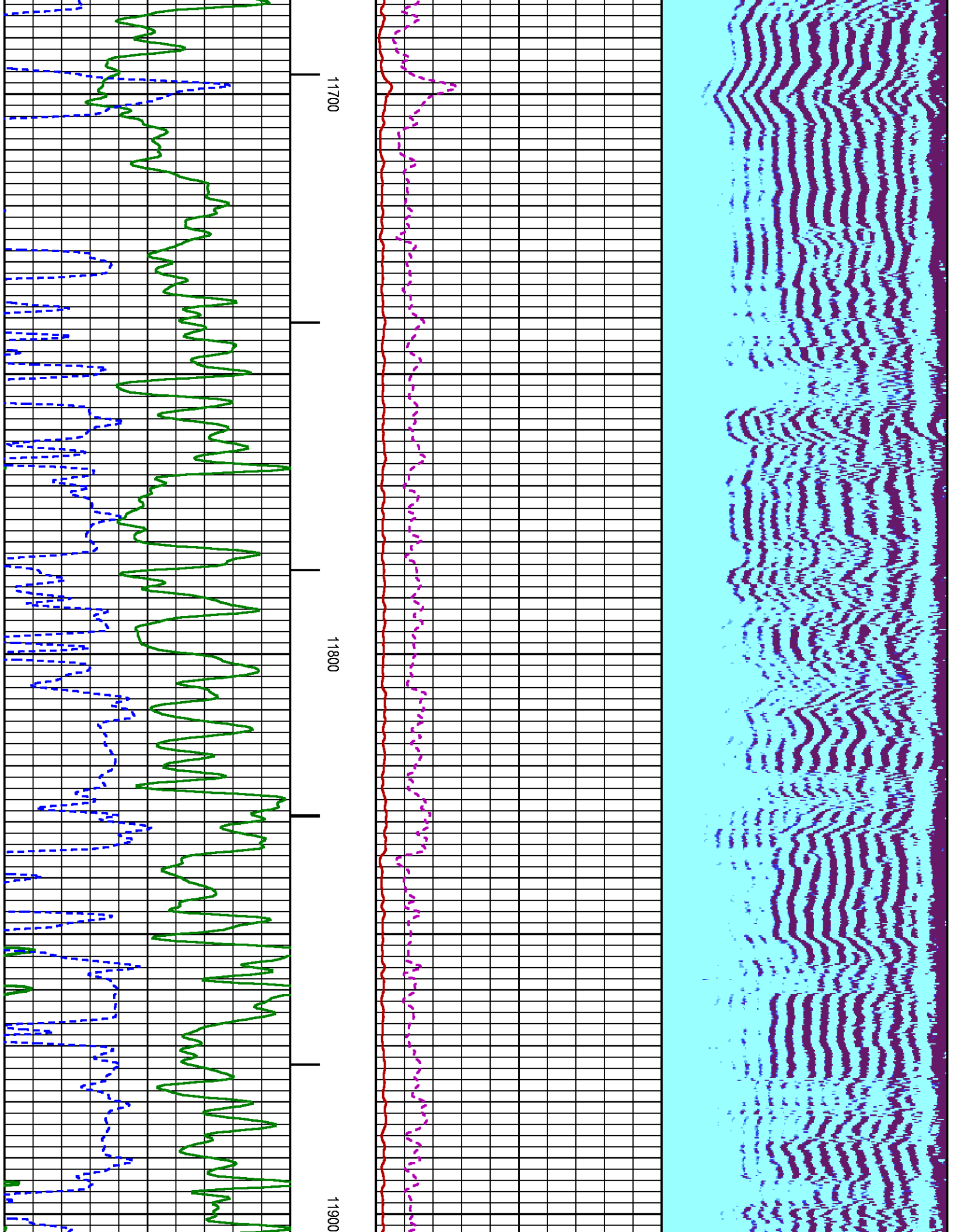


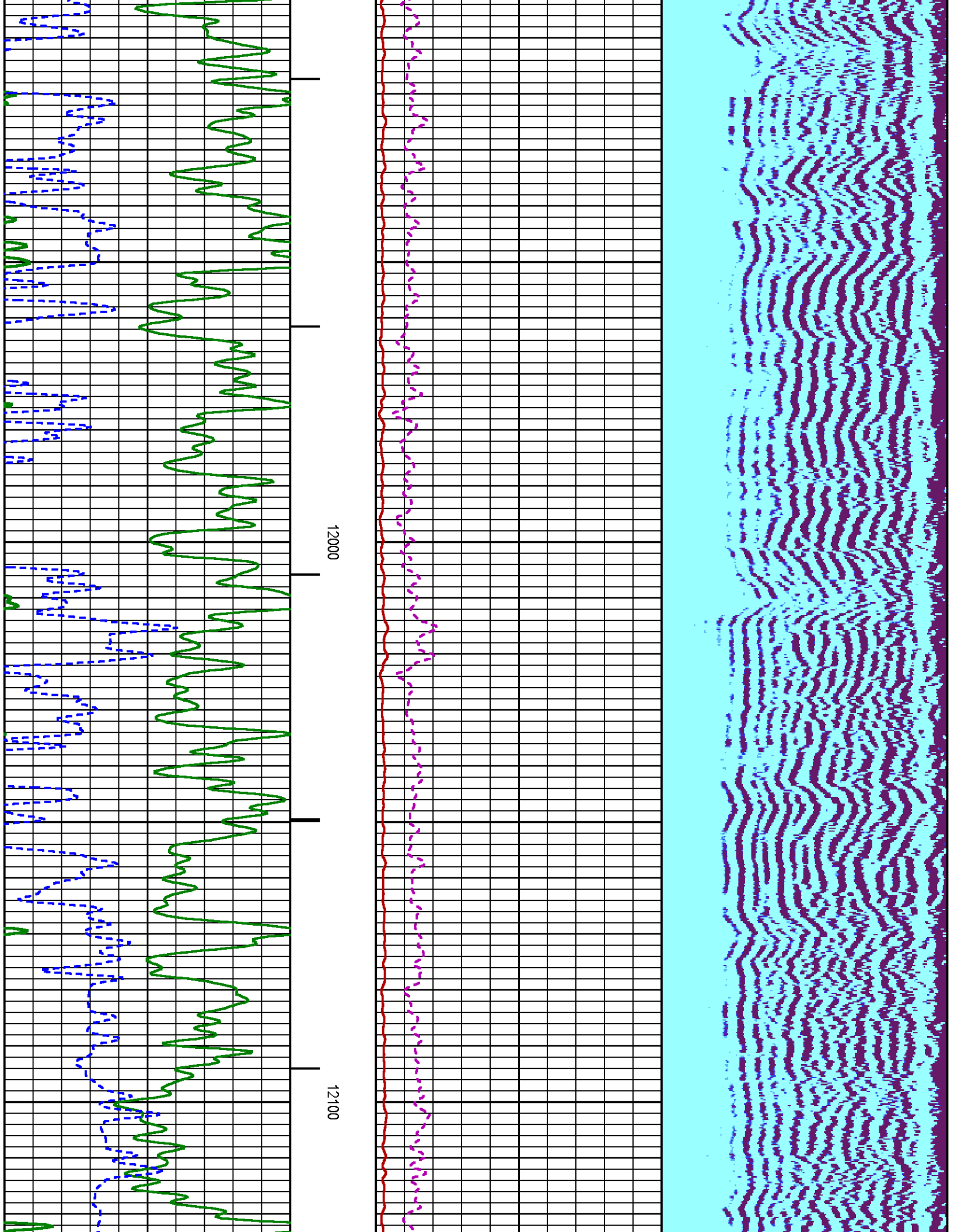


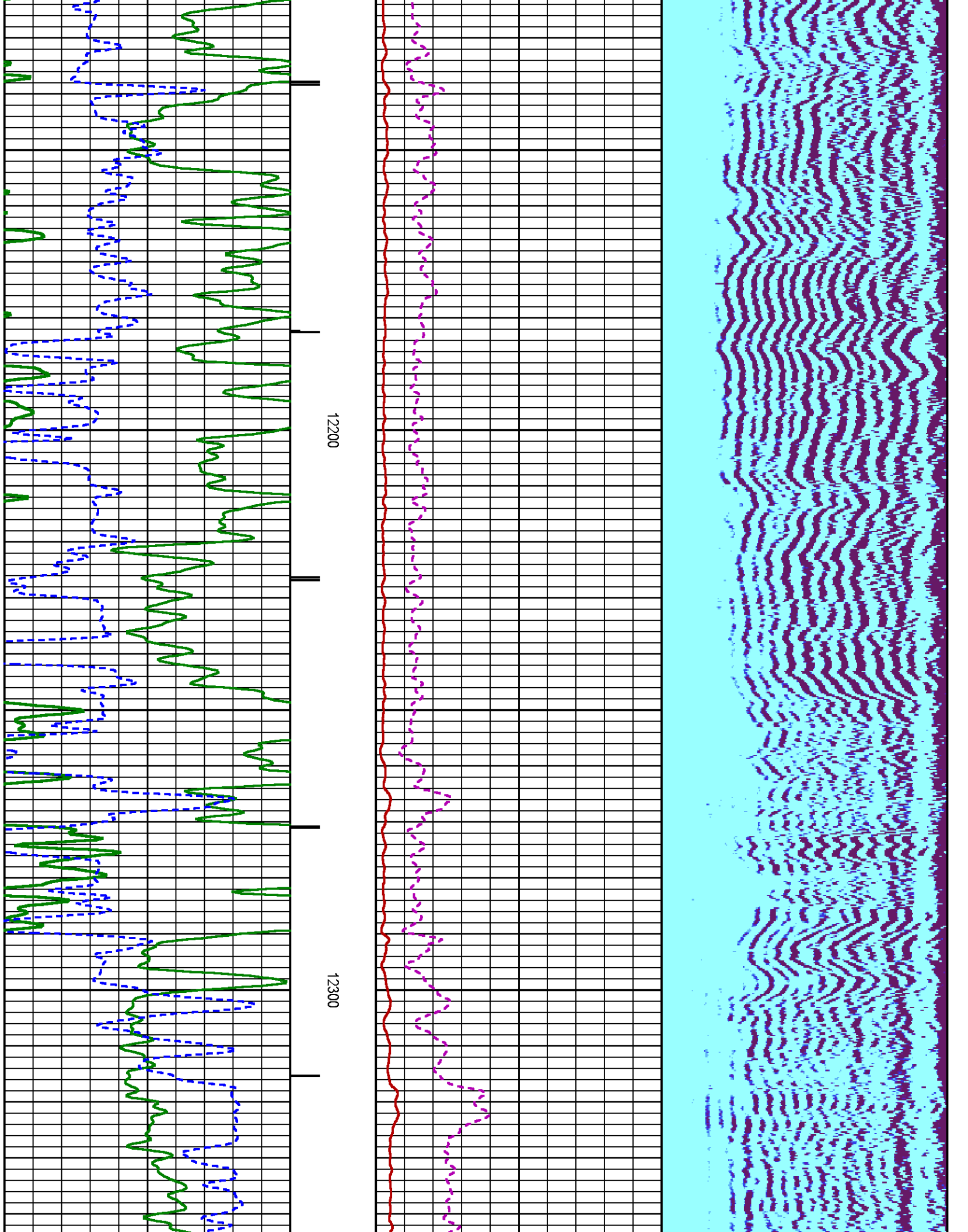




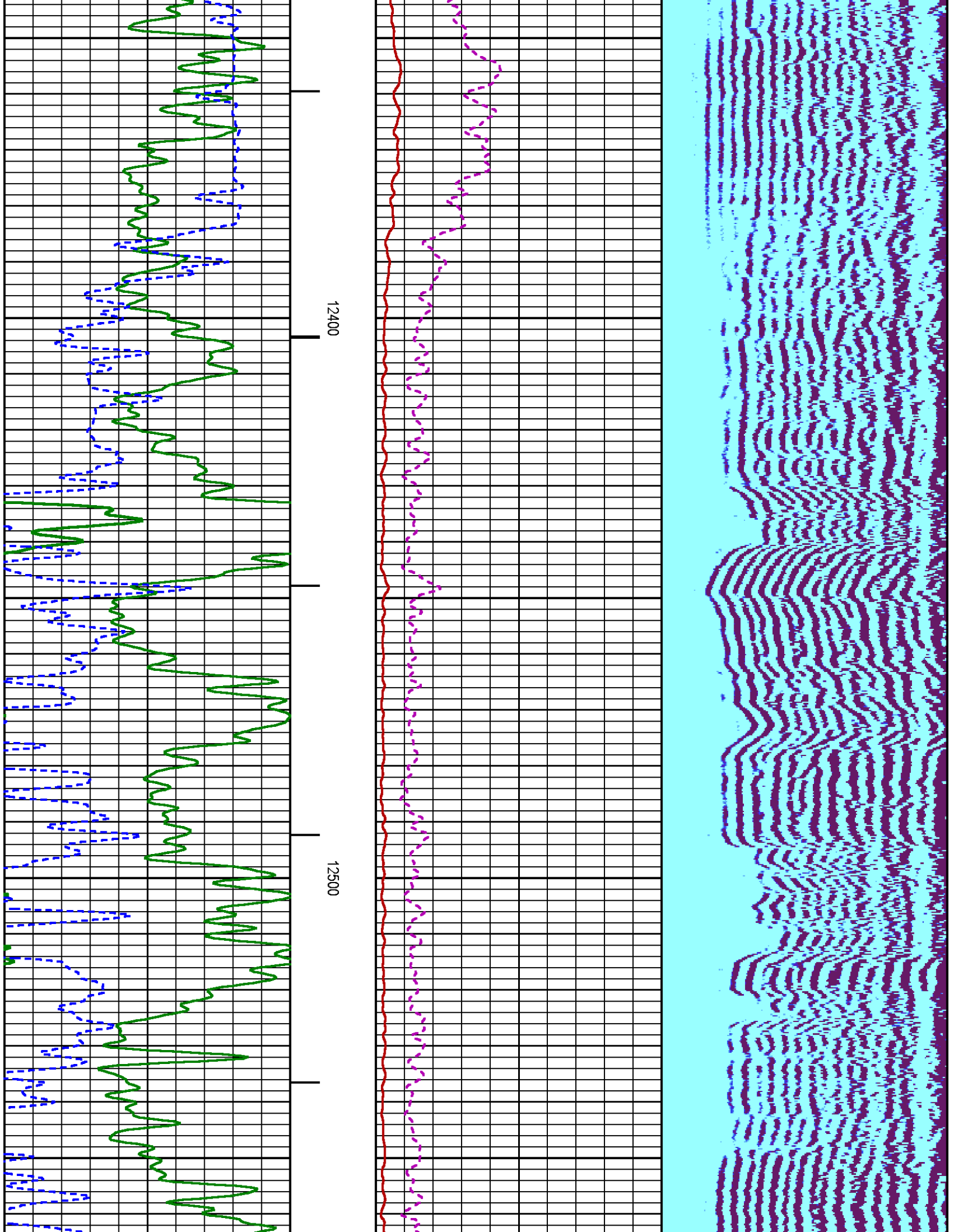




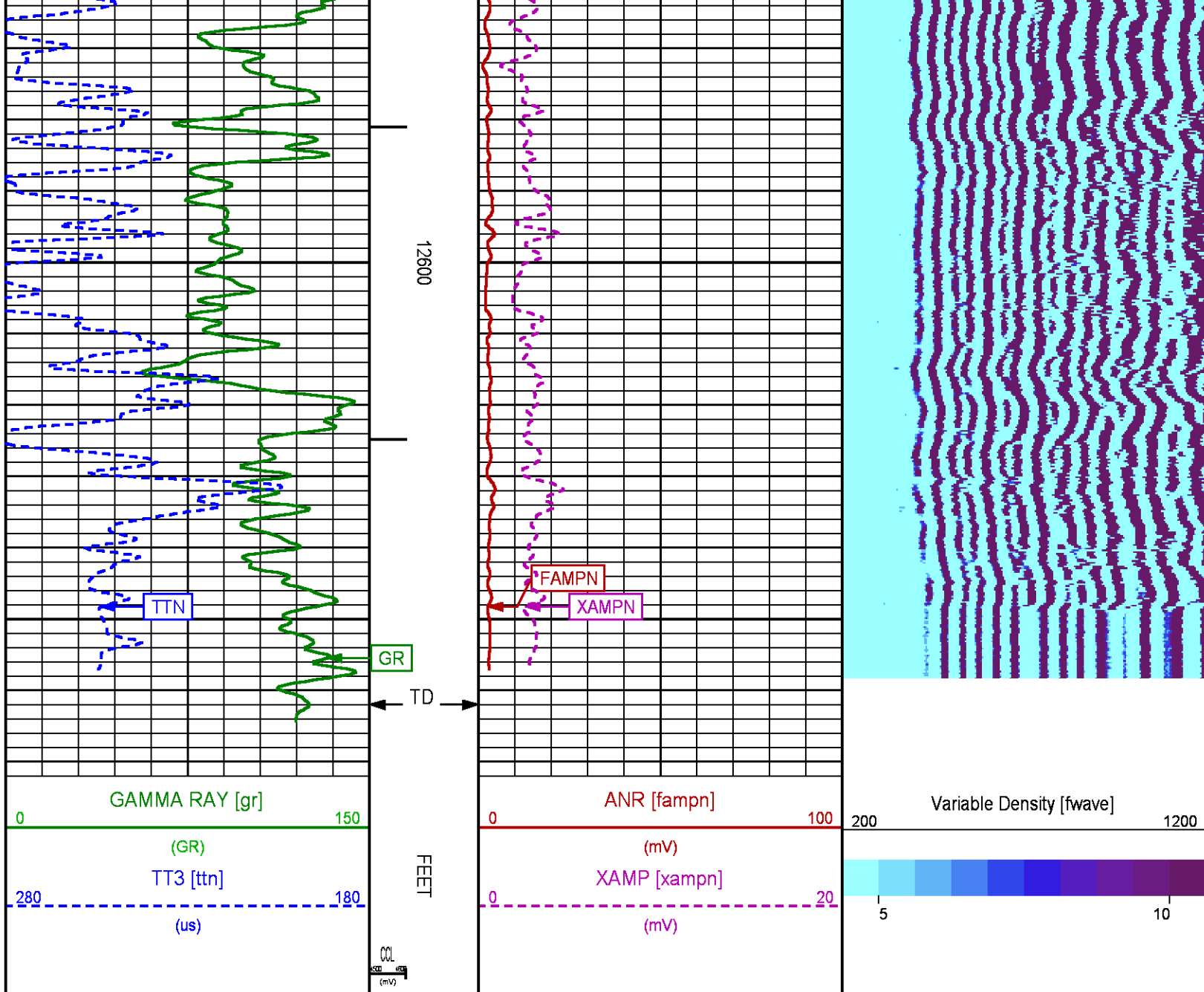












## SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Tue Dec 16 11:41:41 2014

### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\091655\n012e02.prm  
LOGGING MODE: DEPTH: 3987.500 ft DIRECTION: UP  
TOP DEPTH: 3987.500 ft BOTTOM DEPTH: 12677.750 ft

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
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GR	FILTER ( )	medium (1)	TOP	BOTTOM
AMPLITUDE	FILTER ( )	medium (1)	"	"
TRAVEL TIME	FILTER ( )	medium (1)	"	"

RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	188	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	188	us	"	"
	AMP WINDOW START (fgp3*)	188	us	"	"
	AMP WINDOW START (fgp4*)	188	us	"	"
	AMP WINDOW START (fgp5*)	188	us	"	"
	AMP WINDOW START (fgp6*)	188	us	"	"
	AMP WINDOW START (fgp7*)	188	us	"	"
	AMP WINDOW START (fgp8*)	188	us	"	"
	AMP WINDOW START (fgpn*)	188	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	178	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-68	us	"	"
	TOOL DELAY (str2*)	-68	us	"	"
	TOOL DELAY (str3*)	-68	us	"	"
	TOOL DELAY (str4*)	-68	us	"	"
	TOOL DELAY (str5*)	-68	us	"	"
	TOOL DELAY (str6*)	-68	us	"	"
	TOOL DELAY (str7*)	-68	us	"	"
	TOOL DELAY (str8*)	-68	us	"	"
	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

PARAMETER AND FILTER SUMMARY REPORT					
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FILE:	C:\dat1a\091655\012g02.prm				
LOGGING MODE:	DEPTH	DIRECTION:	UP		
TOP DEPTH:	22.500 ft	BOTTOM DEPTH:	5821.000 ft		

SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ( )	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ( )	light (2a)		"	"
TRAVEL TIME	FILTER ( )	medium (1)		"	"

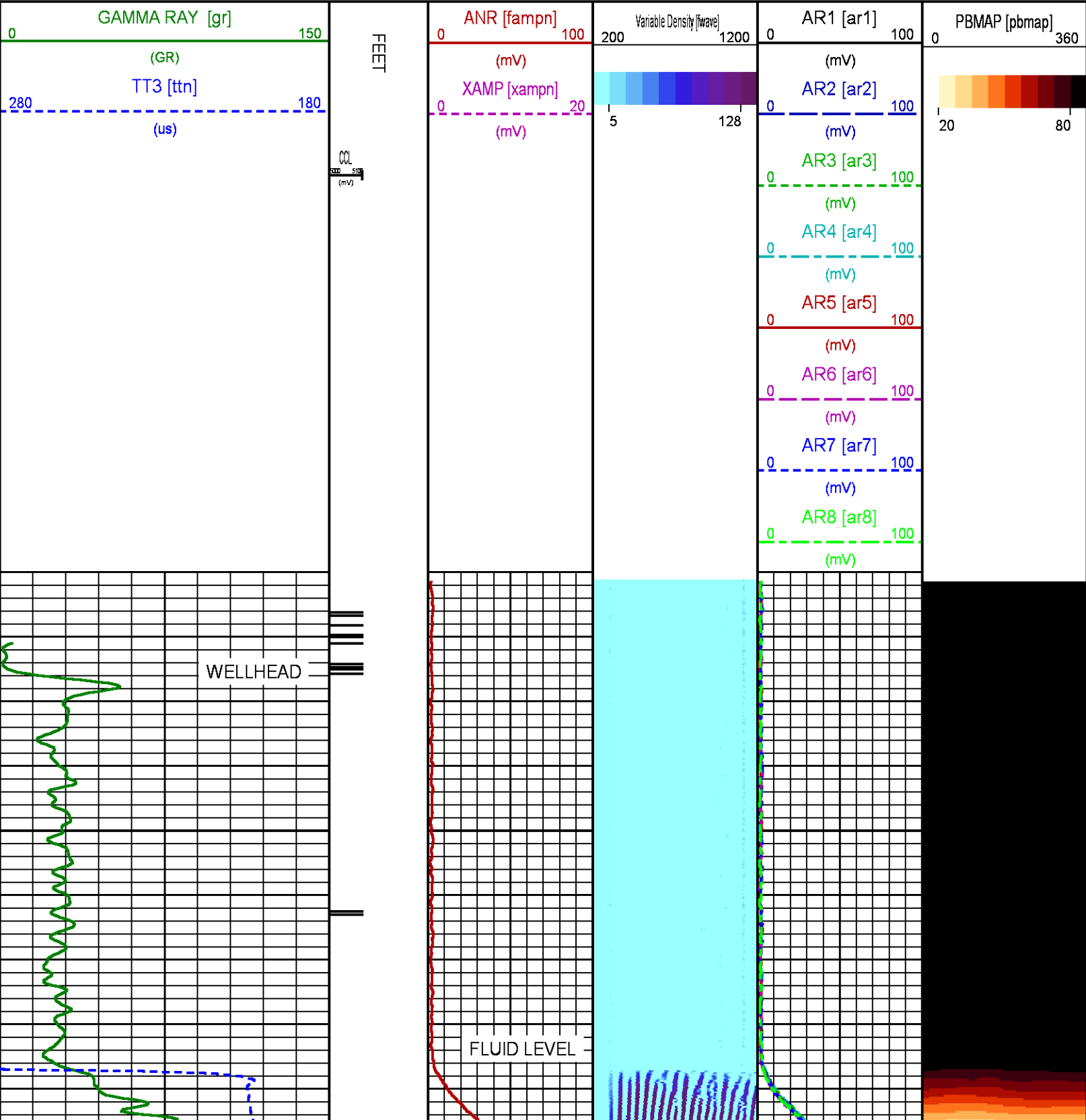
RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	

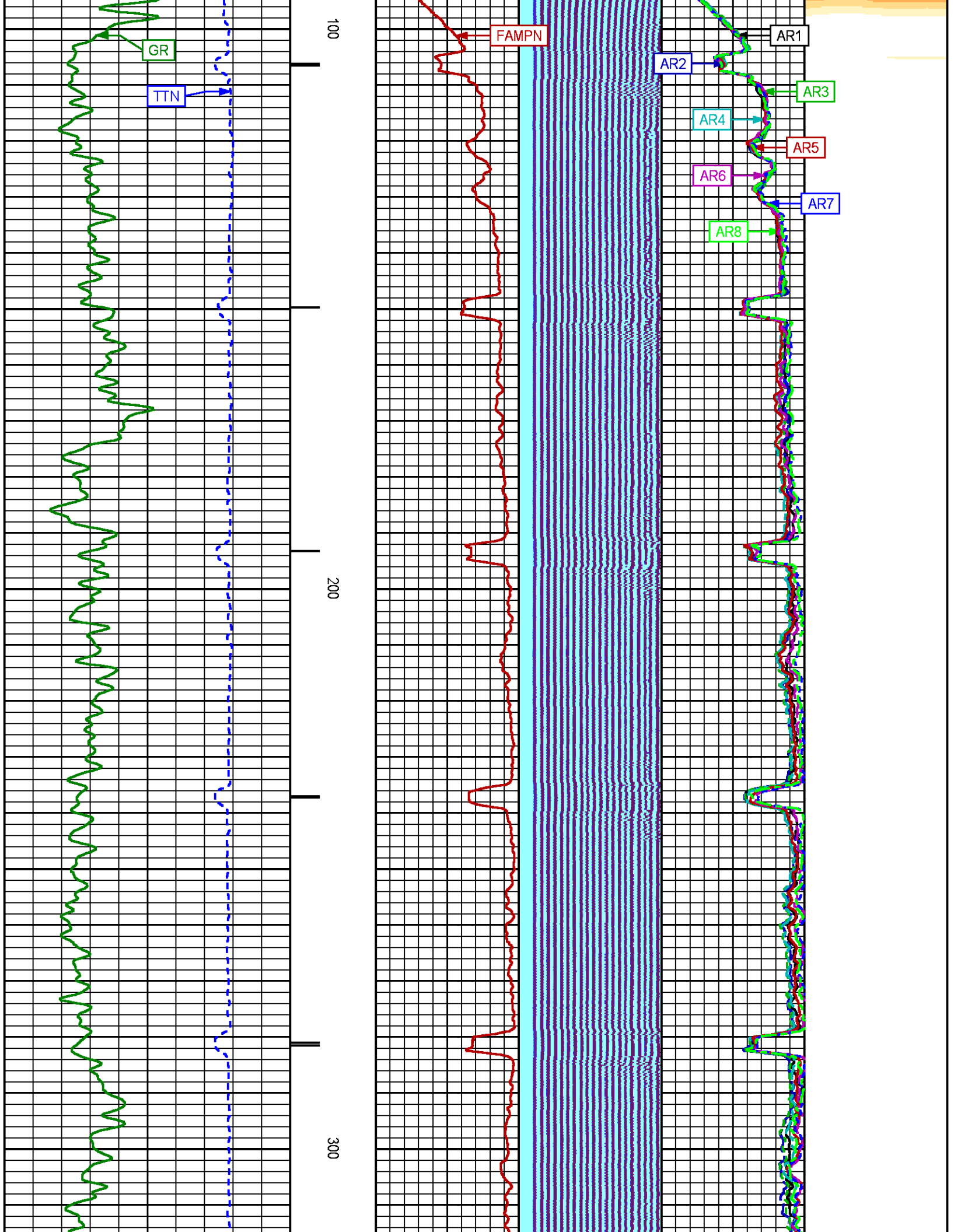
CCL FLOOR	CCL FLOOR	0	TOP	BOTTOM	
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	188	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	188	us	"	"
	AMP WINDOW START (fgp3*)	188	us	"	"
	AMP WINDOW START (fgp4*)	188	us	"	"
	AMP WINDOW START (fgp5*)	188	us	"	"
	AMP WINDOW START (fgp6*)	188	us	"	"
	AMP WINDOW START (fgp7*)	188	us	"	"
	AMP WINDOW START (fgp8*)	188	us	"	"
	AMP WINDOW START (fgpn*)	188	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-69	us	"	"
	TOOL DELAY (str2*)	-69	us	"	"
	TOOL DELAY (str3*)	-69	us	"	"
	TOOL DELAY (str4*)	-69	us	"	"
	TOOL DELAY (str5*)	-69	us	"	"
	TOOL DELAY (str6*)	-69	us	"	"
	TOOL DELAY (str7*)	-69	us	"	"
	TOOL DELAY (str8*)	-69	us	"	"
	TOOL DELAY (strn*)	-69	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"
CURVE DESCRIPTION REPORT					
CURVE NAME	CREATION DATE	CURVE DESCRIPTION			
F1:AR1	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R1			
F1:AR2	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R2			
F1:AR3	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R3			
F1:AR4	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R4			
F1:AR5	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R5			
F1:AR6	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R6			
F1:AR7	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R7			
F1:AR8	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE T-R8			
F1:CCL	Dec 12 10:49:17 2014	CASING COLLAR LOCATOR			
F1:FAMPN	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE NEAR RECEIVER			
F1:FWAVE	Dec 12 10:49:17 2014	FAR WAVE FORM			
F1:GR	Dec 12 10:49:17 2014	GAMMA RAY			
F1:PBMAP	Dec 12 10:49:17 2014	PERCENT BOND CEMENT MAP			
F1:TTN	Dec 12 10:49:17 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER			
F1:XAMPN	Dec 12 10:49:17 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE			
CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)

AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

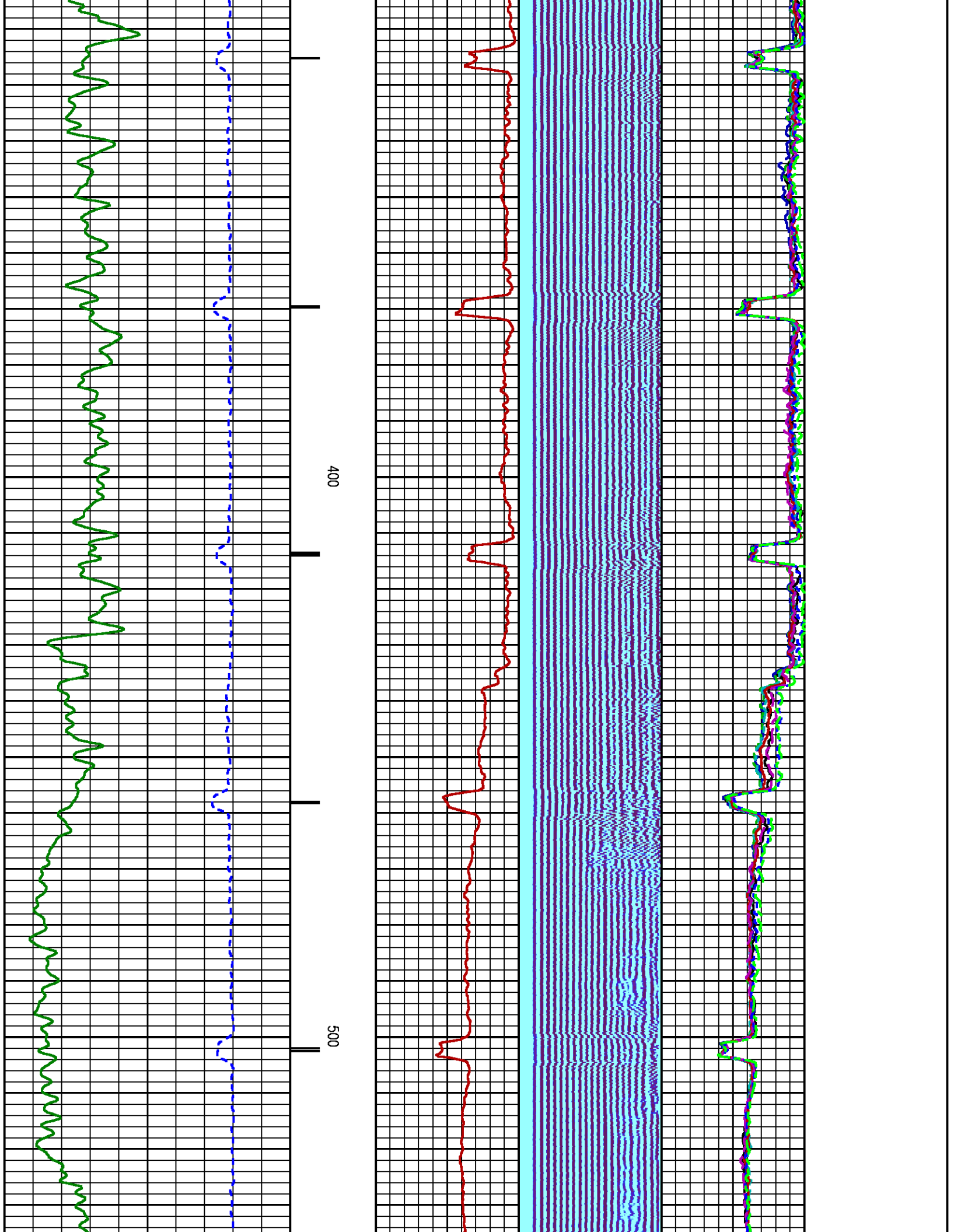
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**Plot Interval** : 11.25 - 12672 Feet

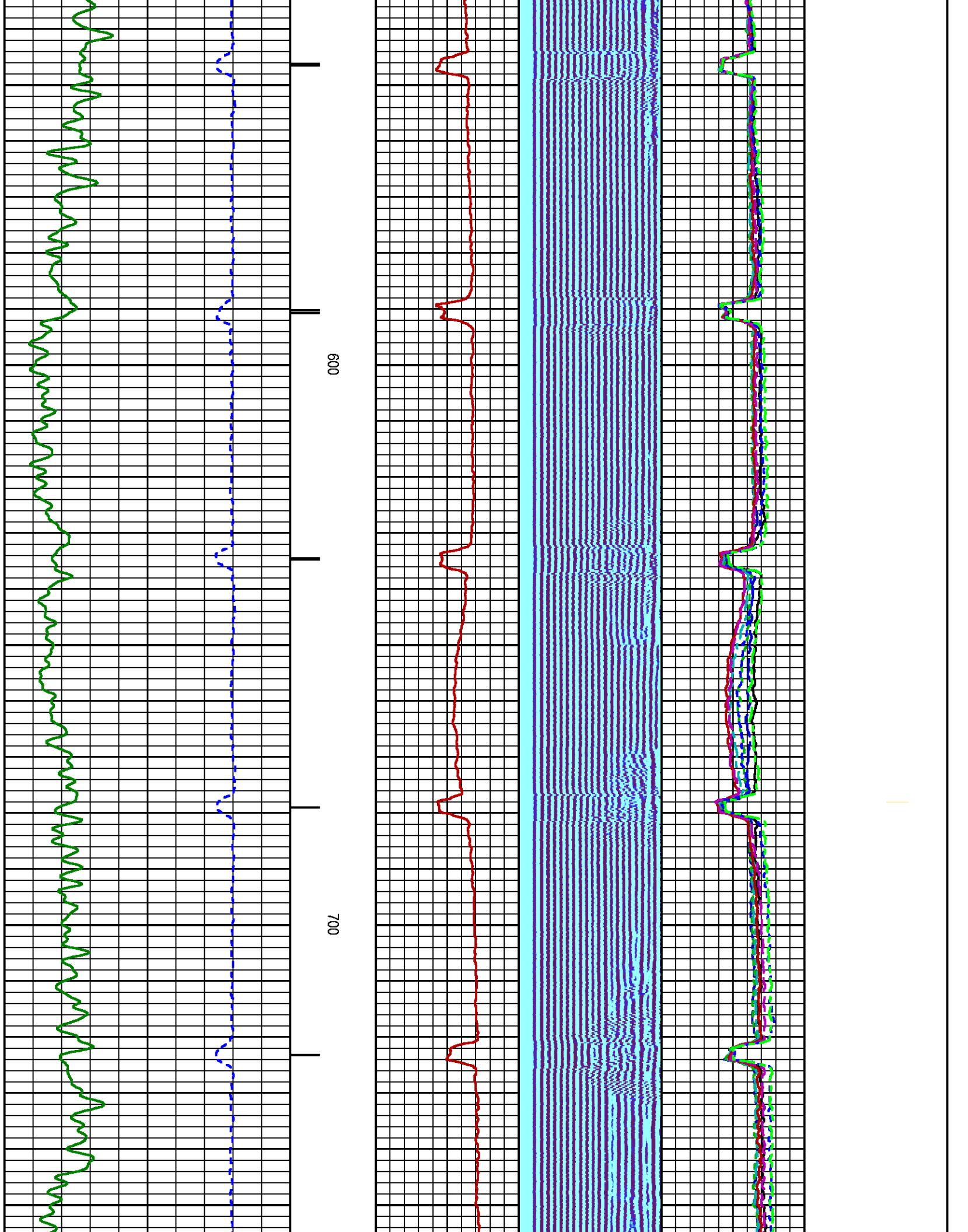
**Data File 1** : F1 : BHUGHES-06627:C:\dat1a\091655\31CBL\_MAIN.xtf  
**Created On** : Dec 12 10:49:17 2014  
**Company** : WPX ENERGY  
**Well** : FEDERAL RGU 444-23-198  
**Field** : SULPHUR CREEK  
**File Interval** : 10.25 - 12672 Feet  
**OCT** : n012e

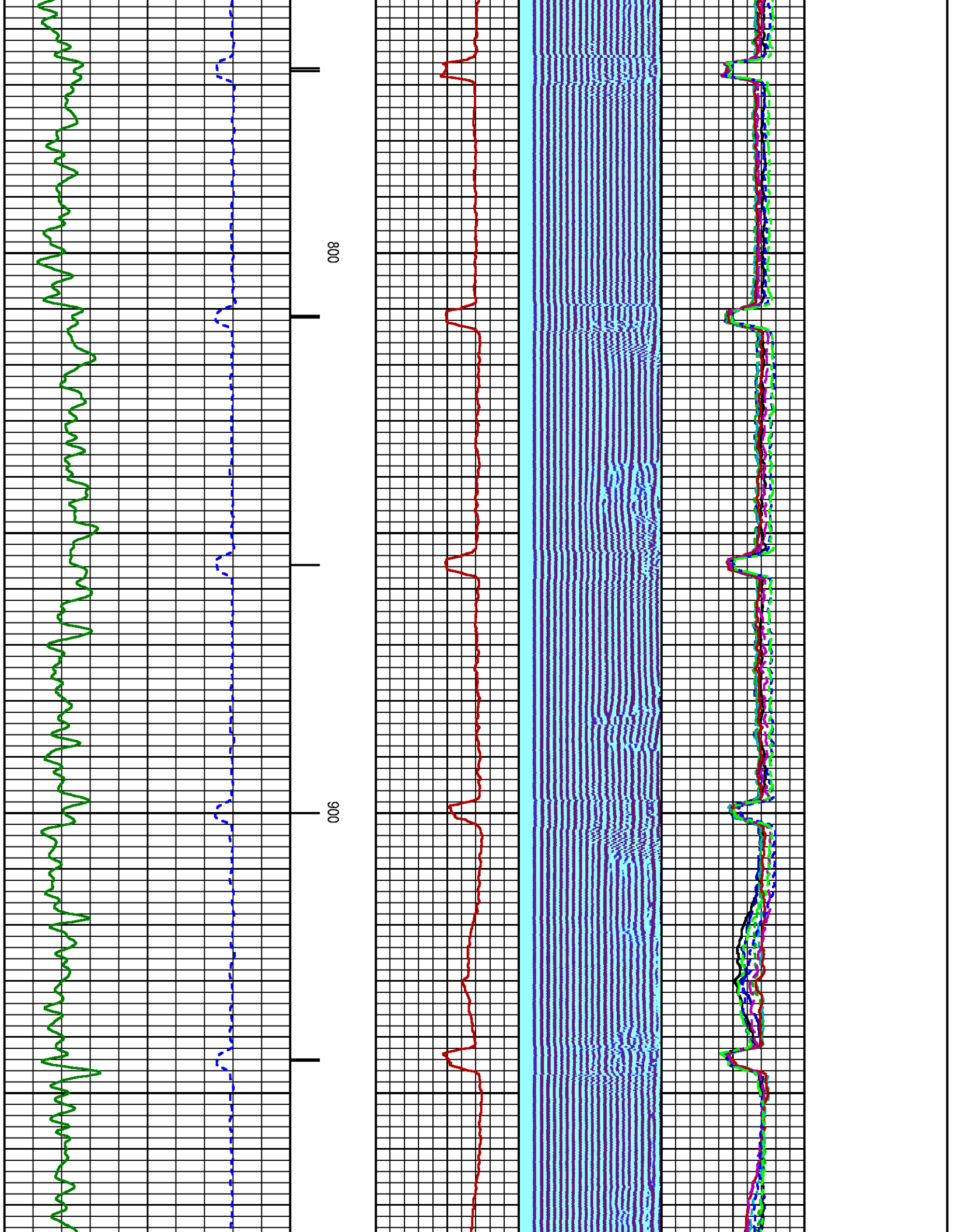


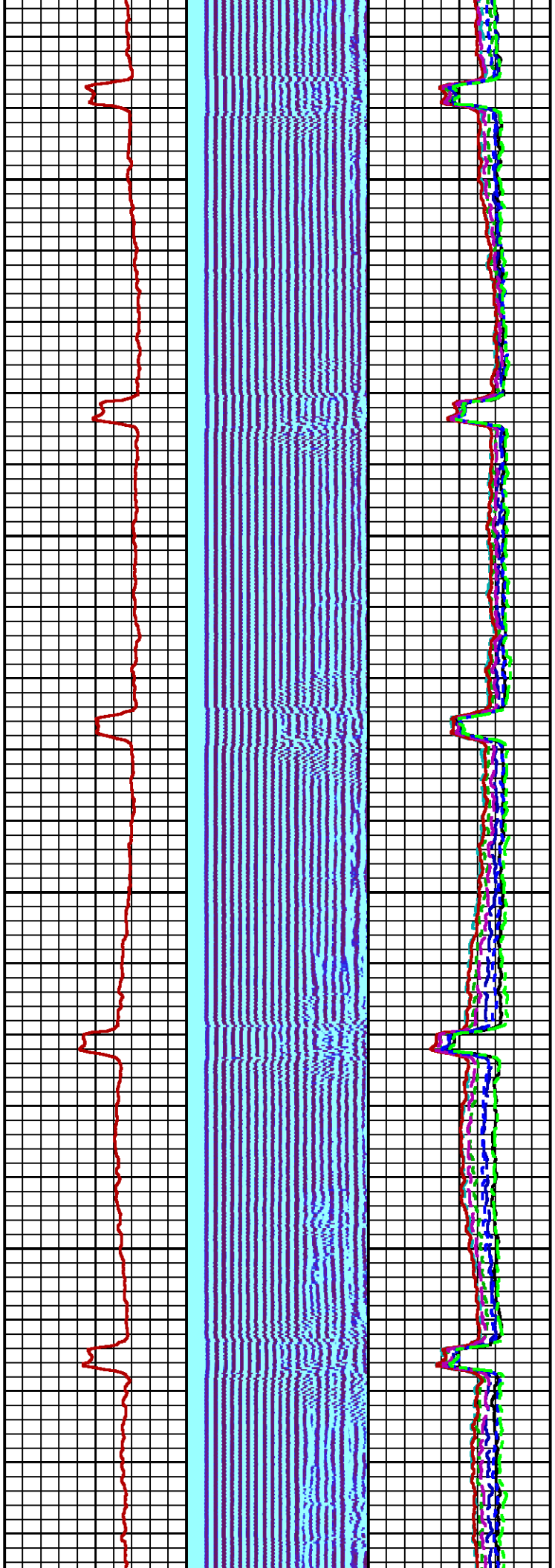






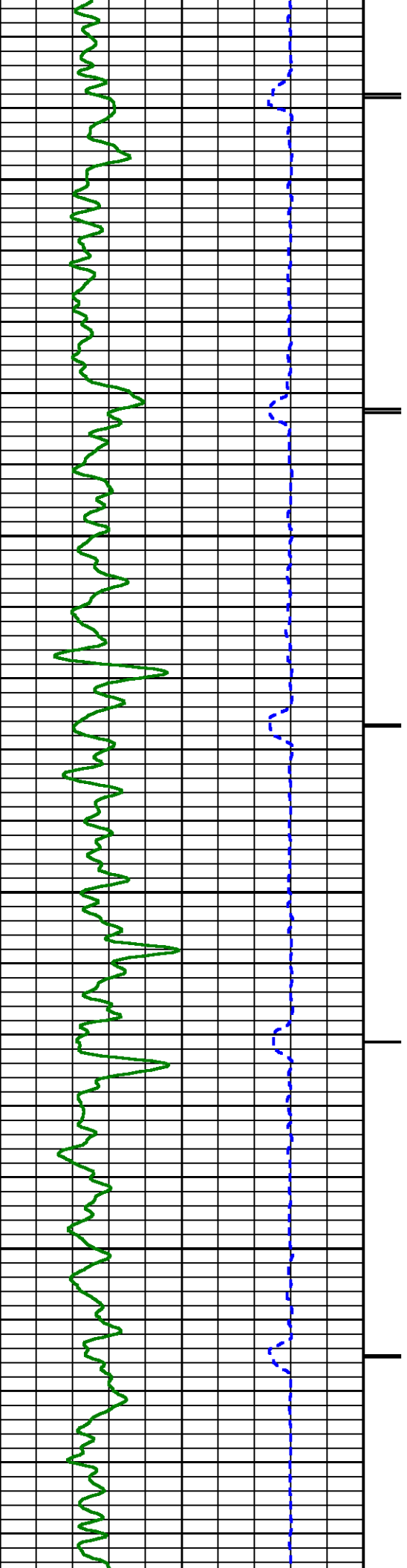




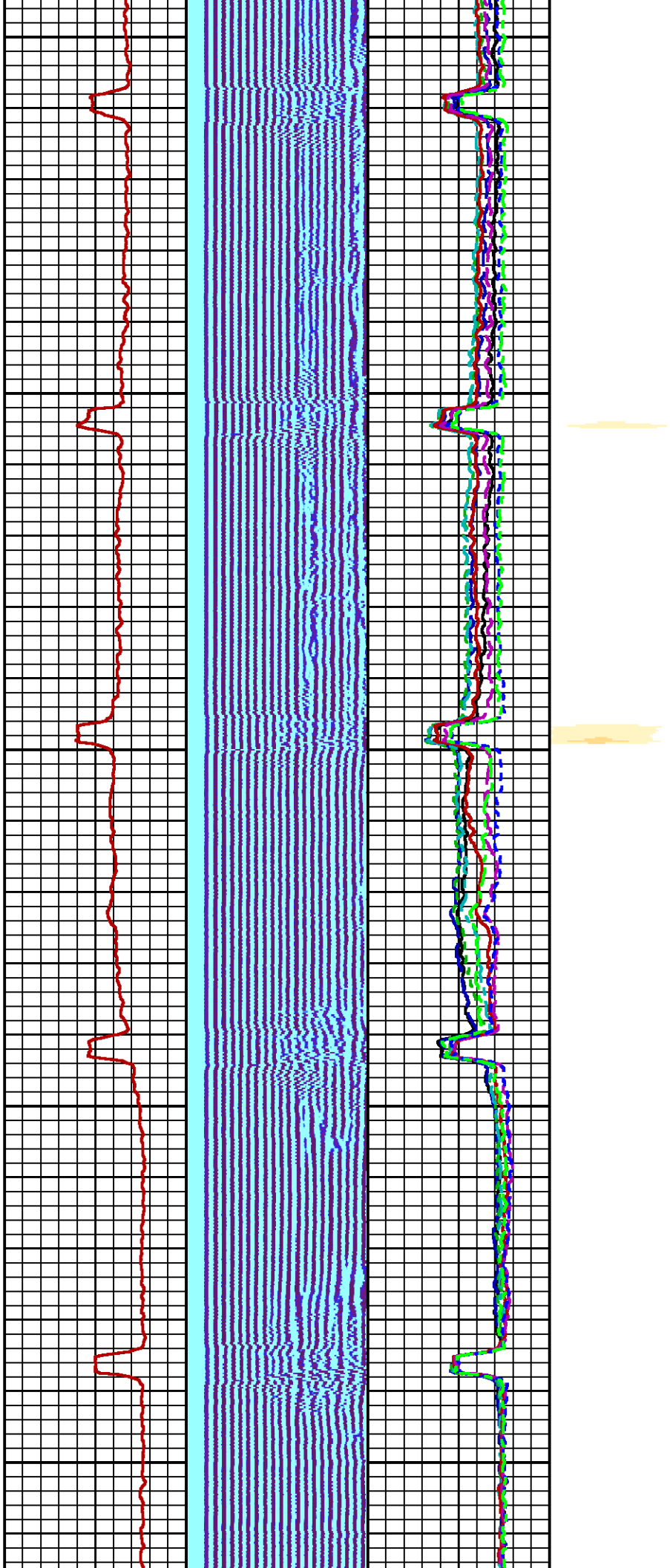


1000

1100



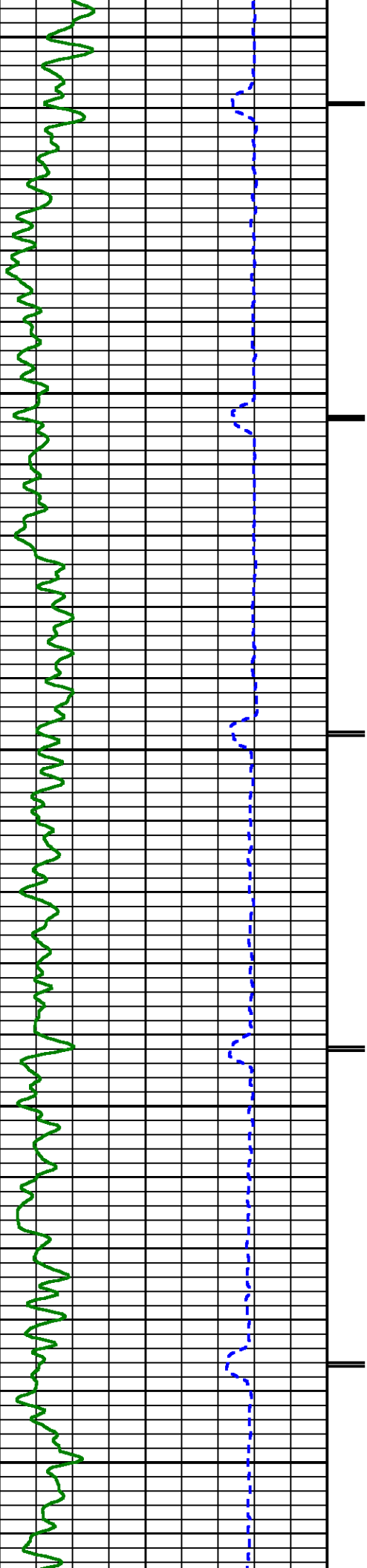




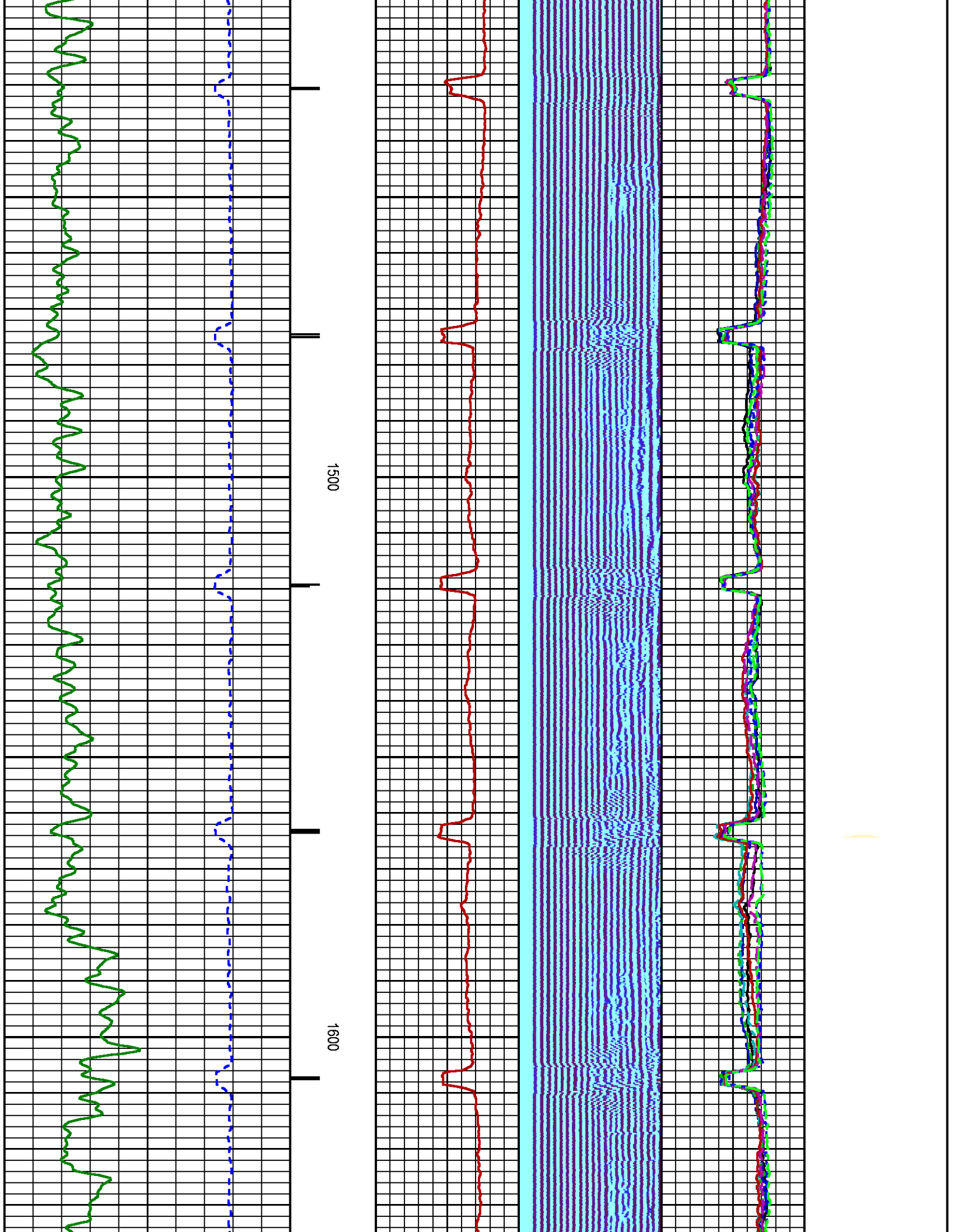
1200

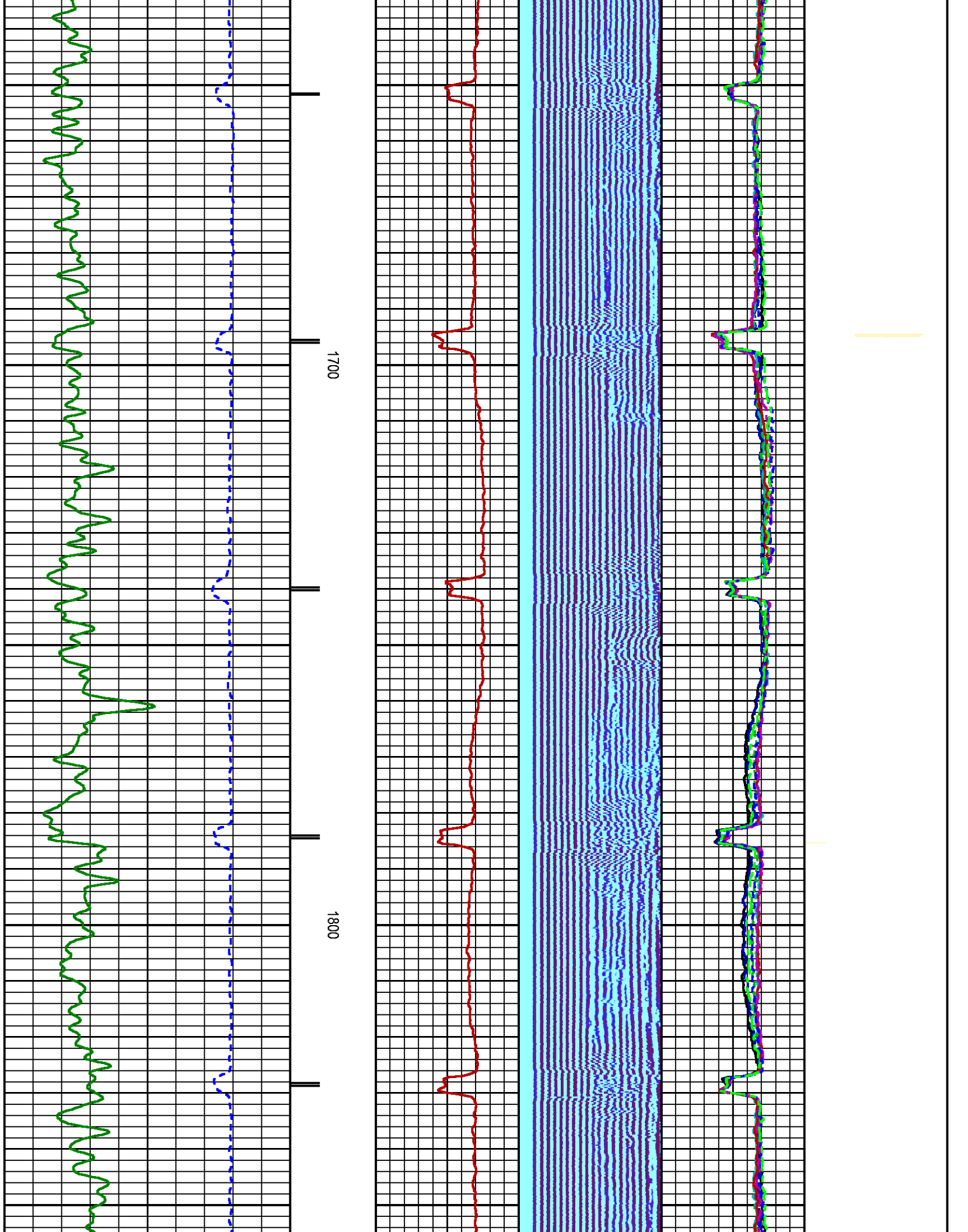
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1400

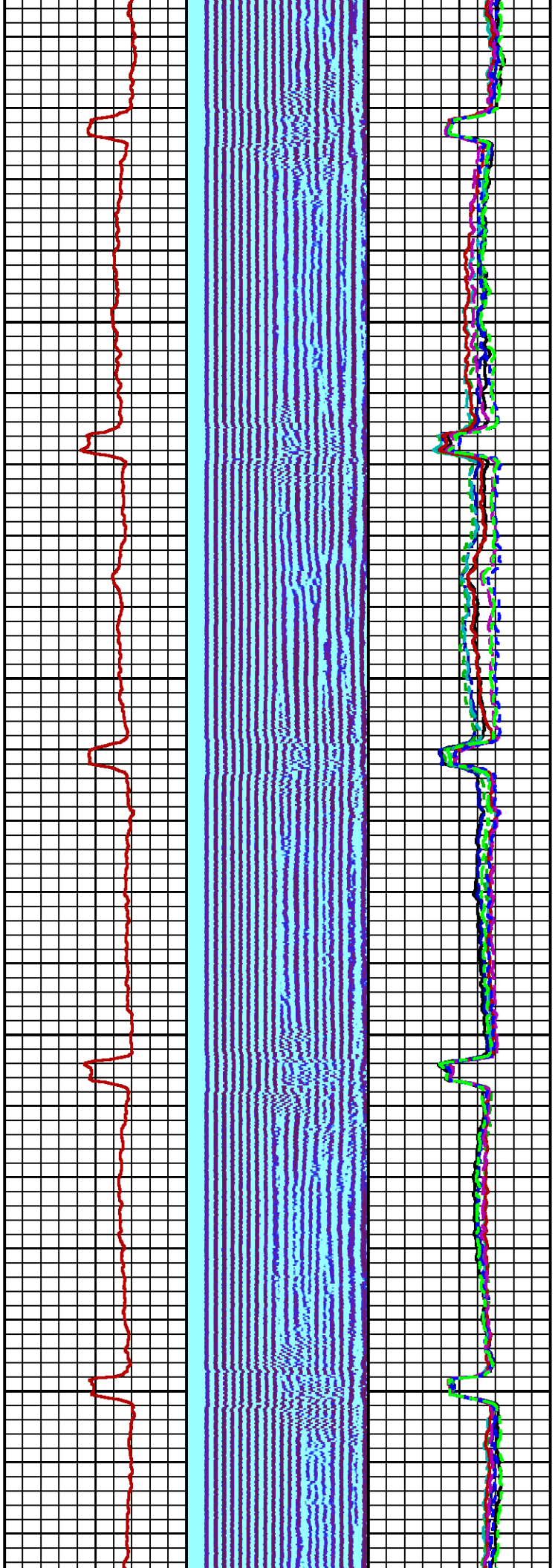






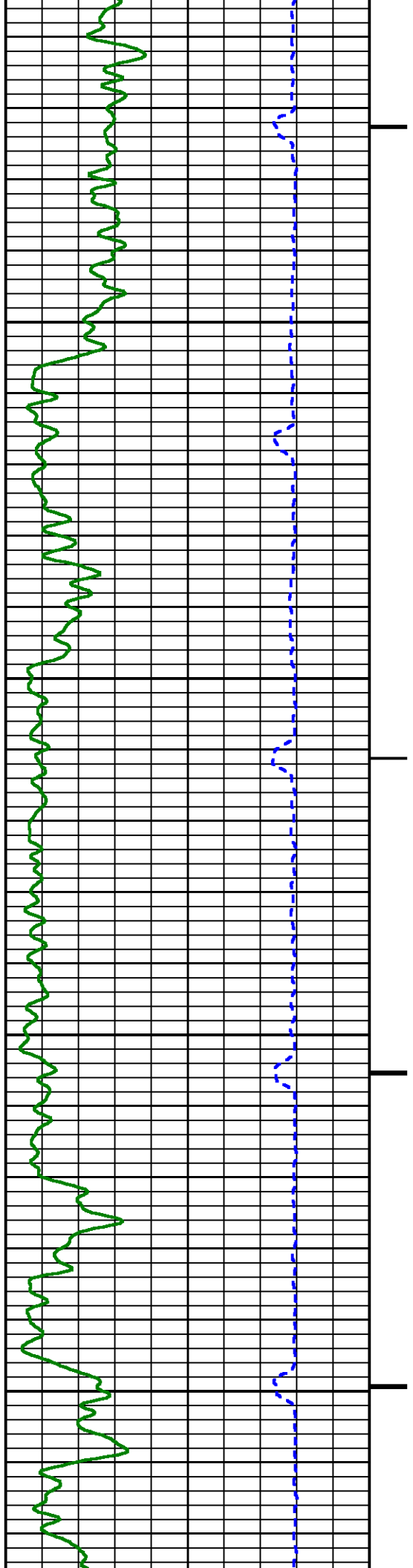


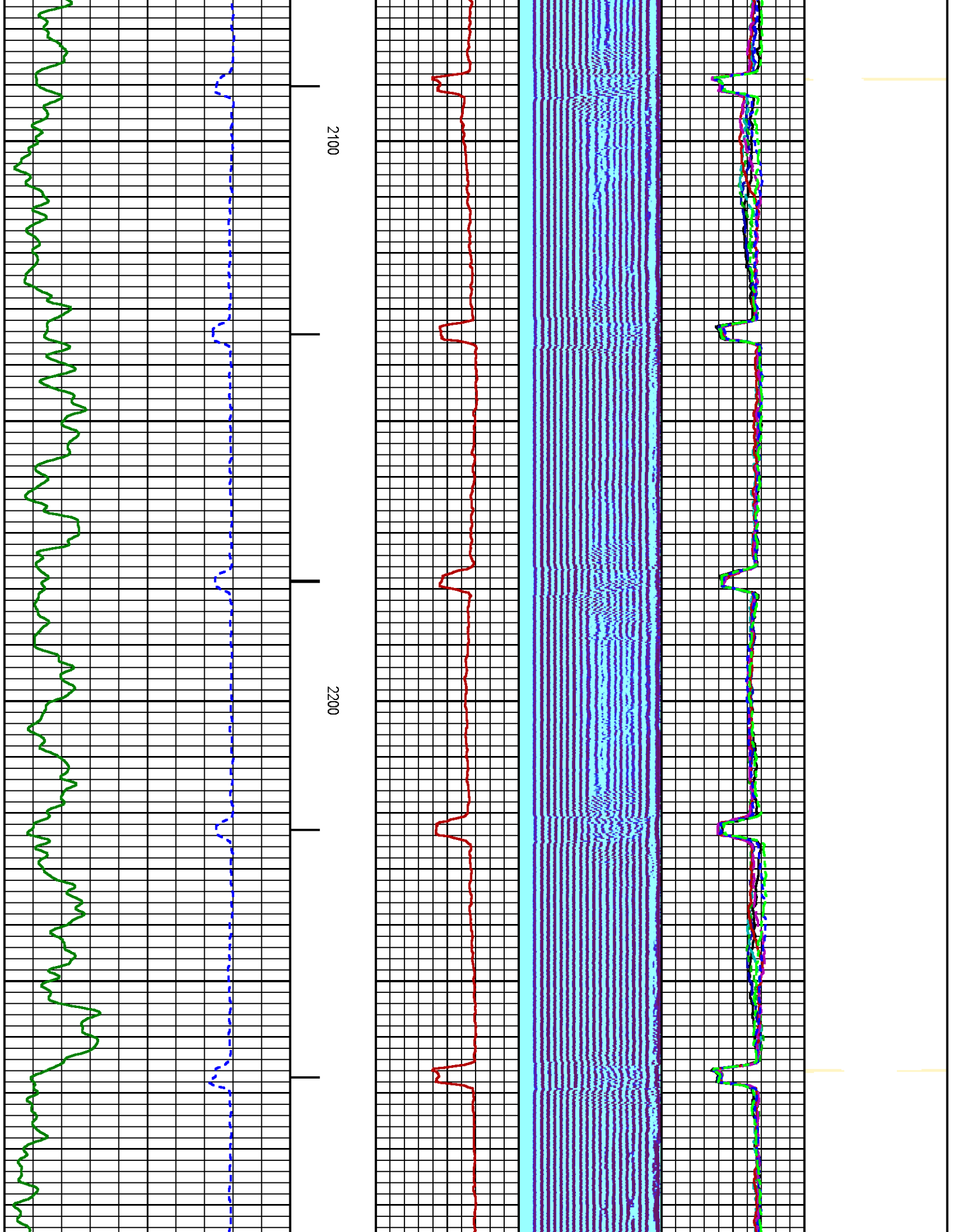
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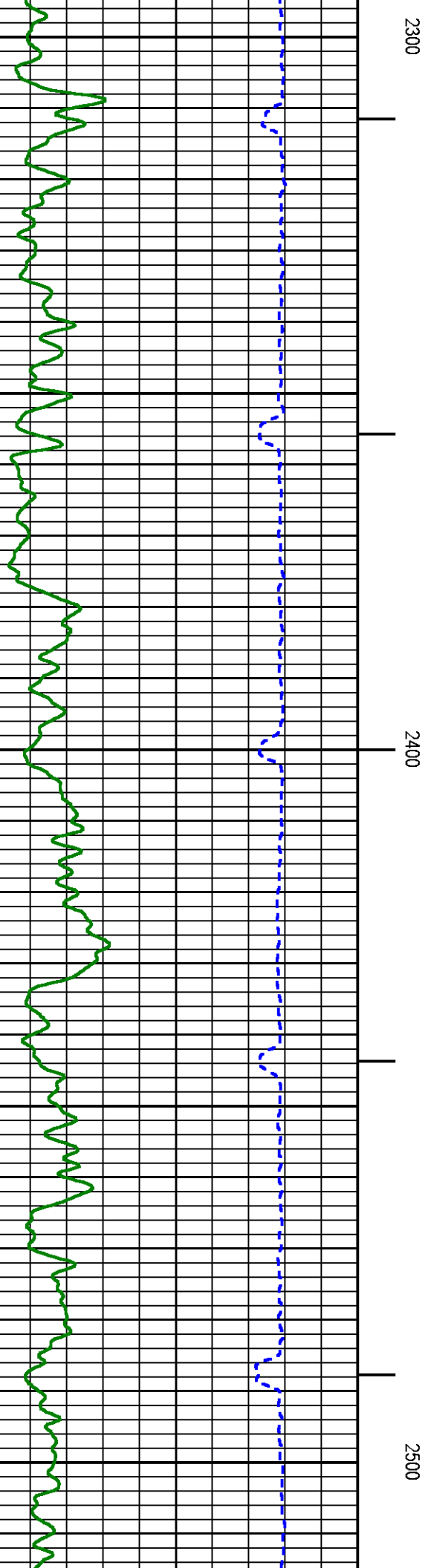
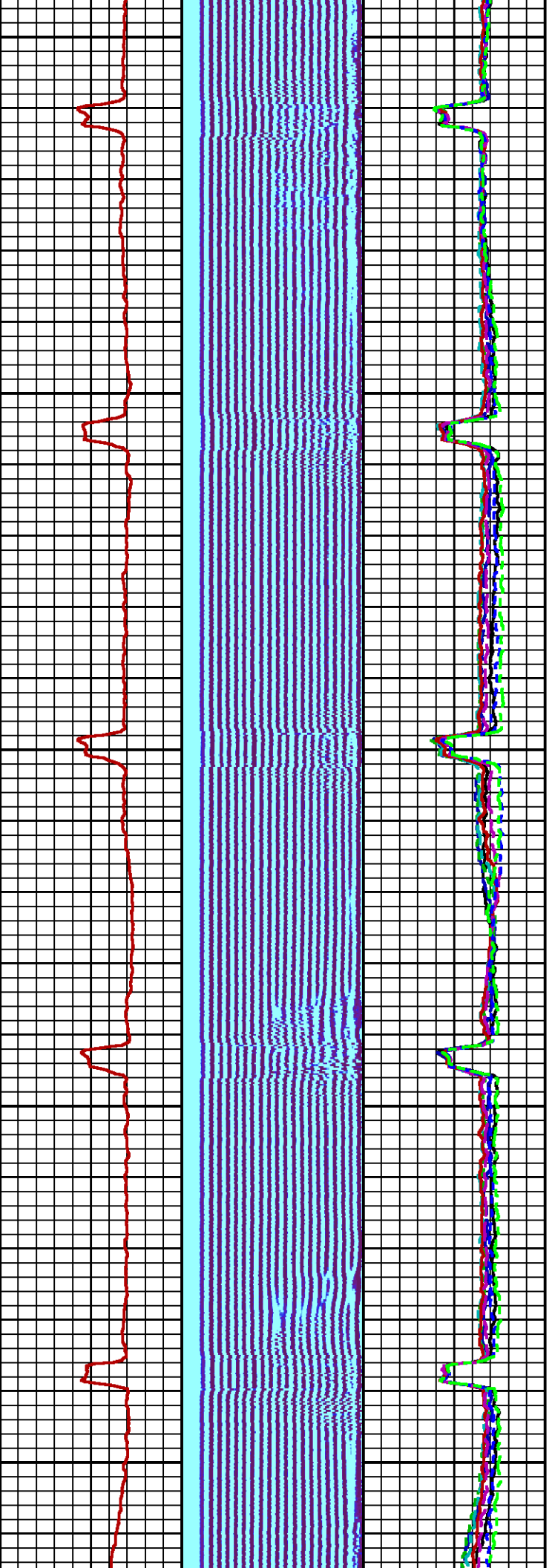
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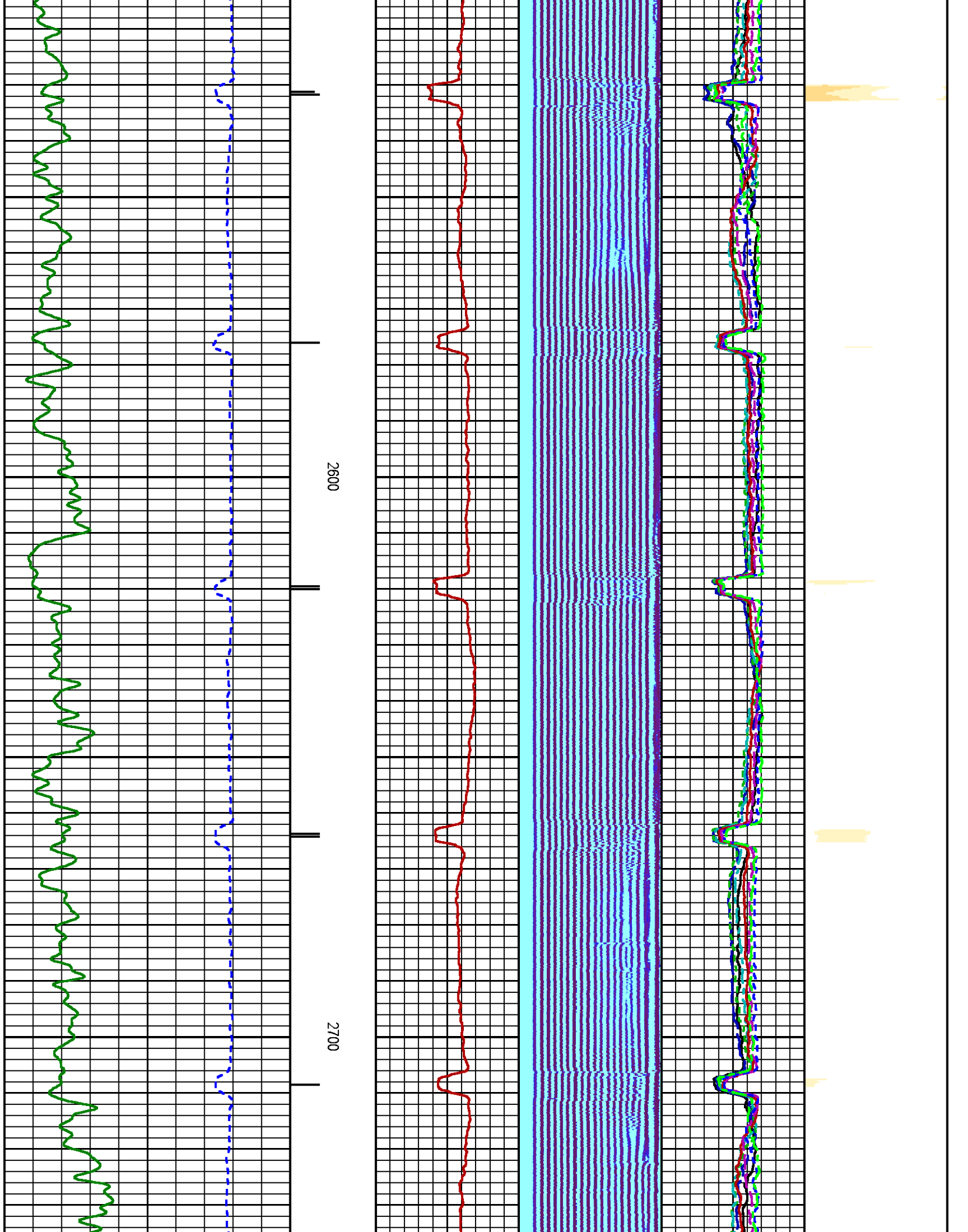


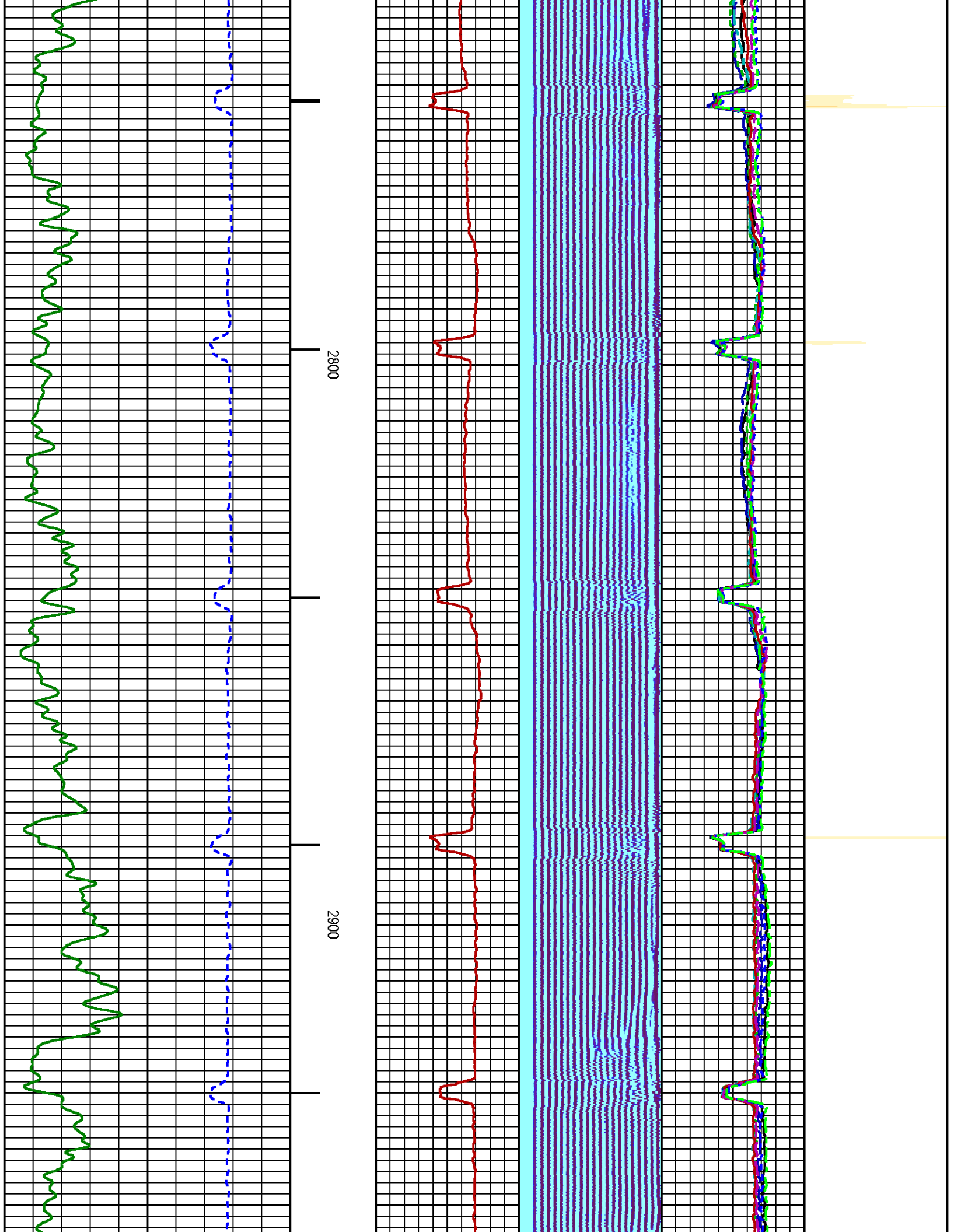


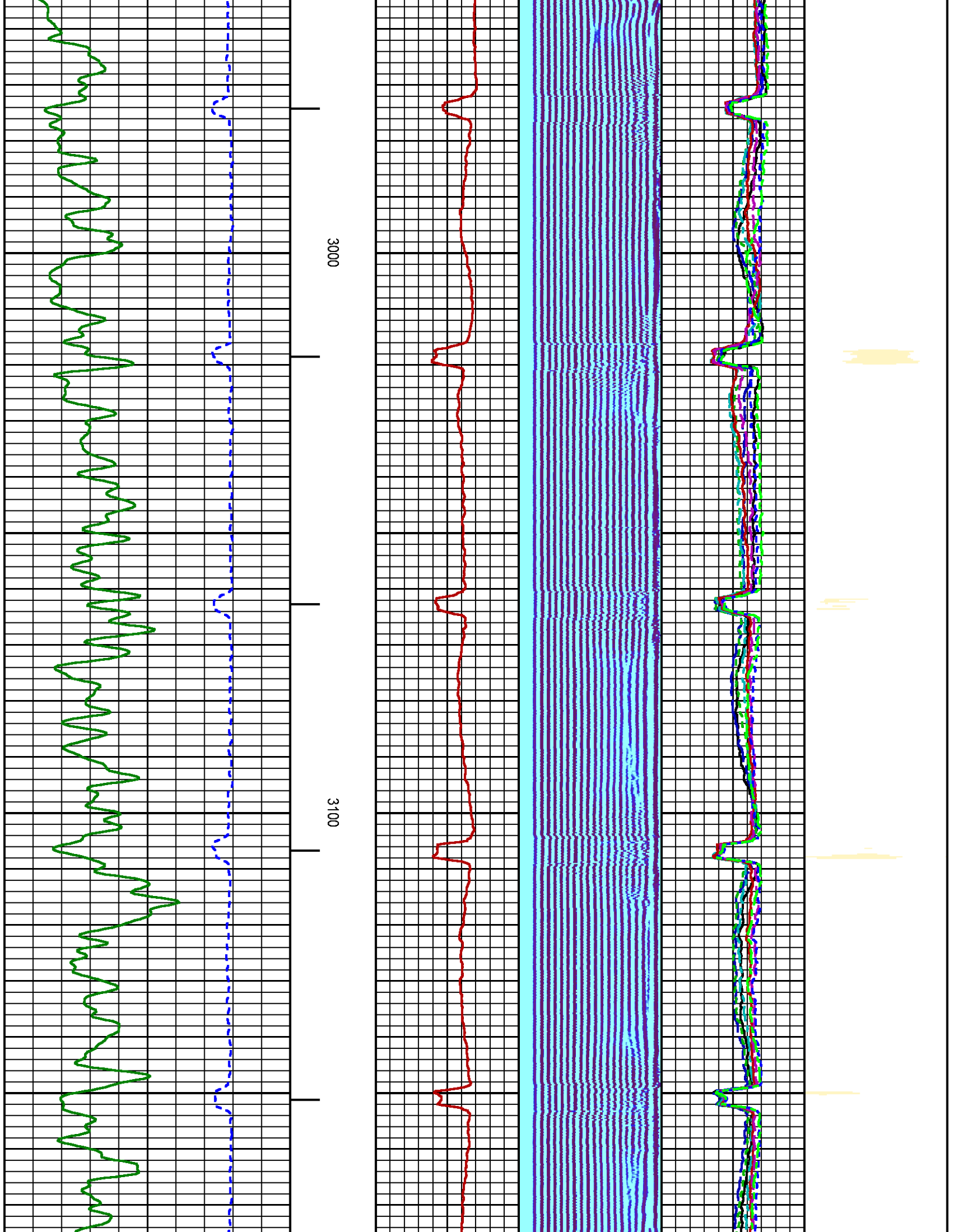


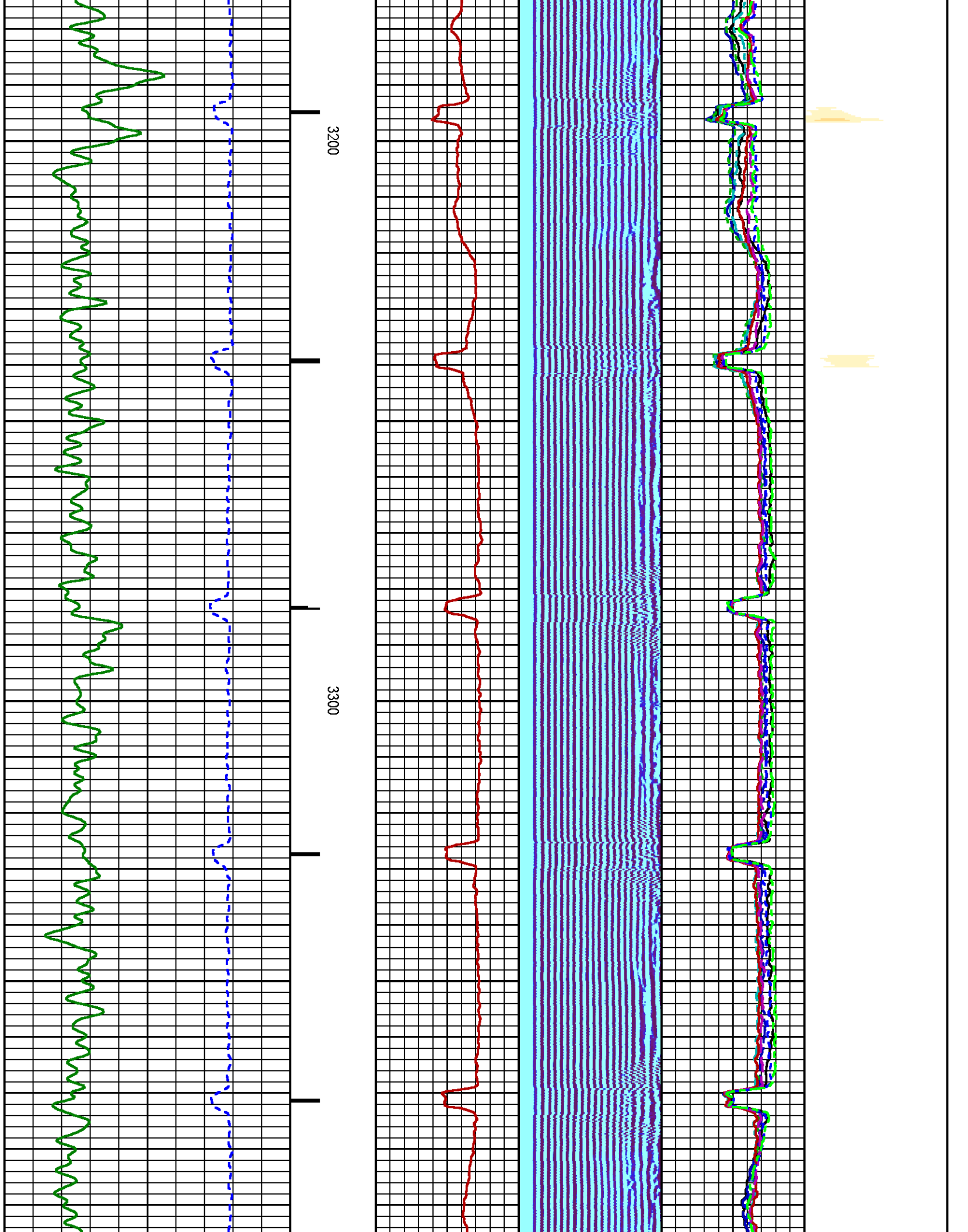




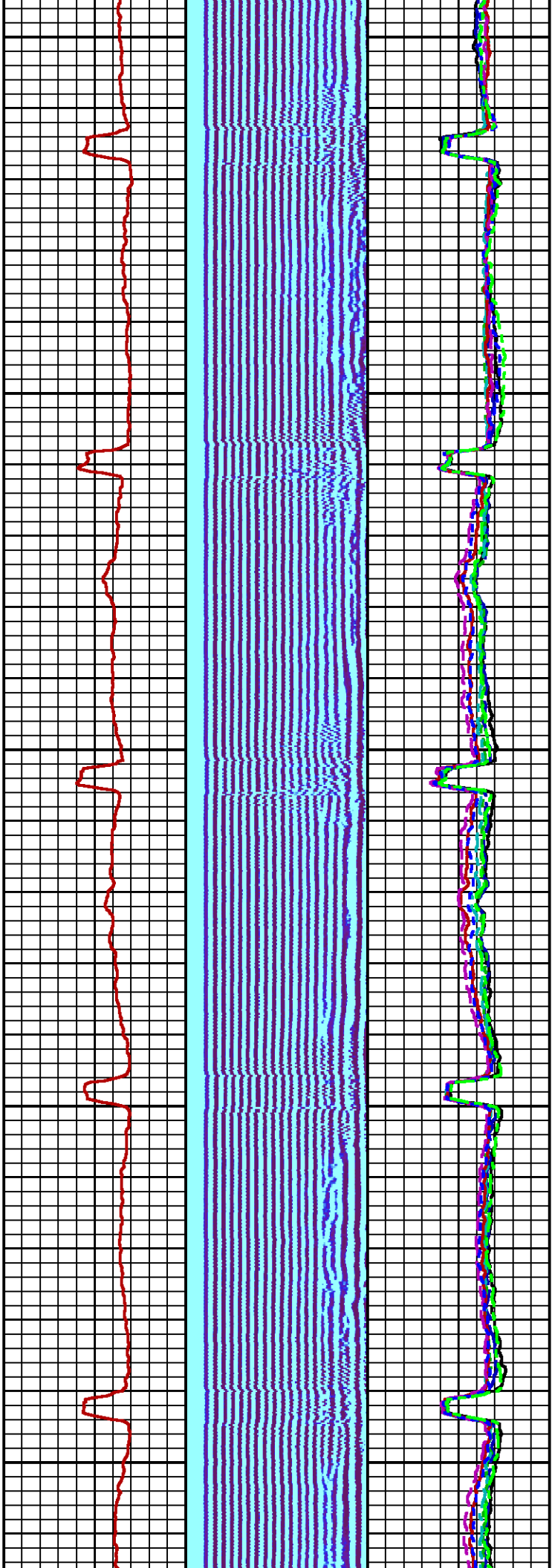








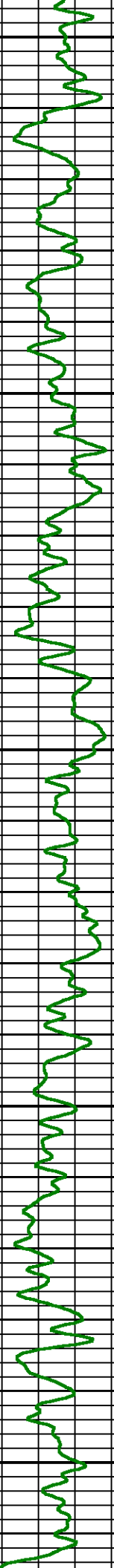
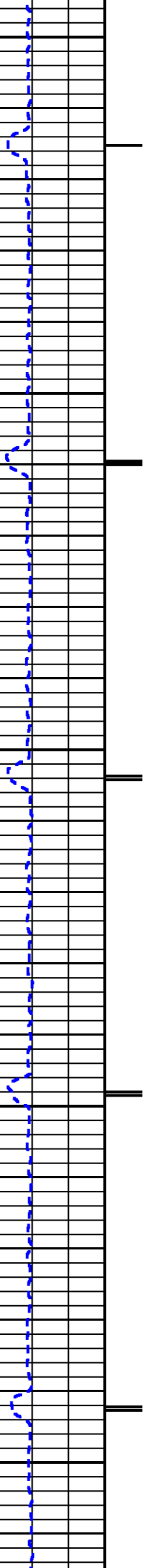




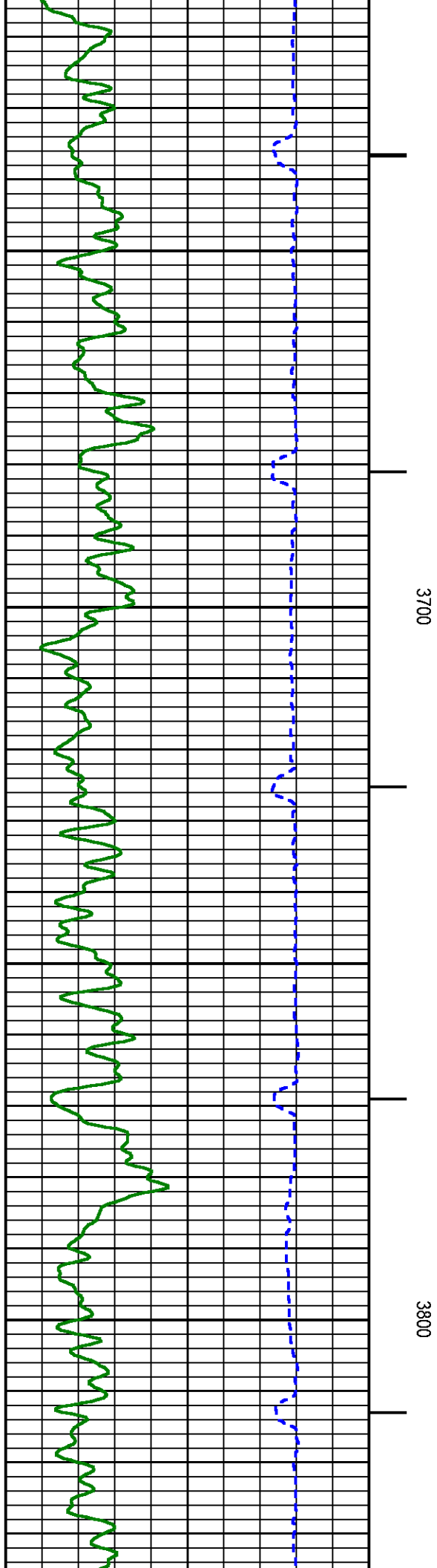
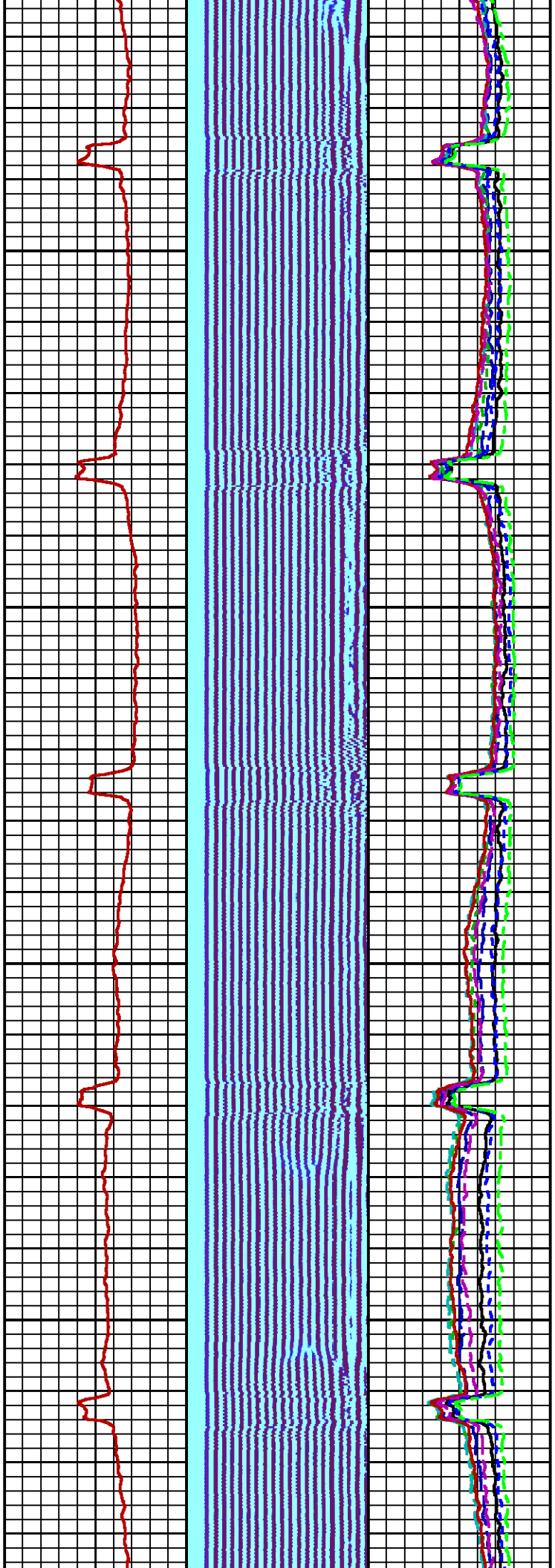
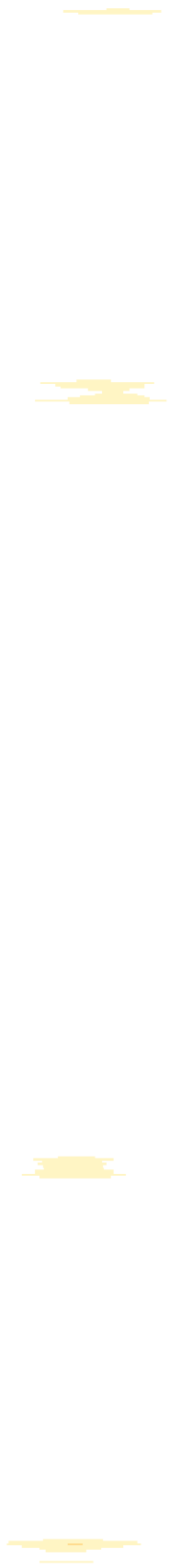
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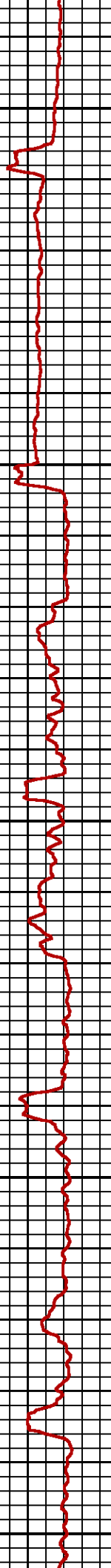
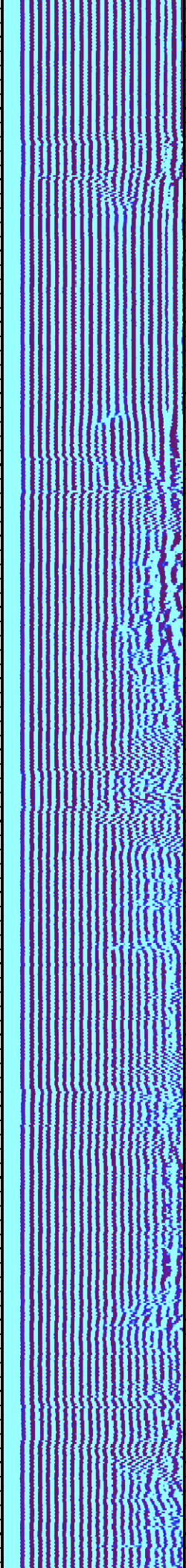
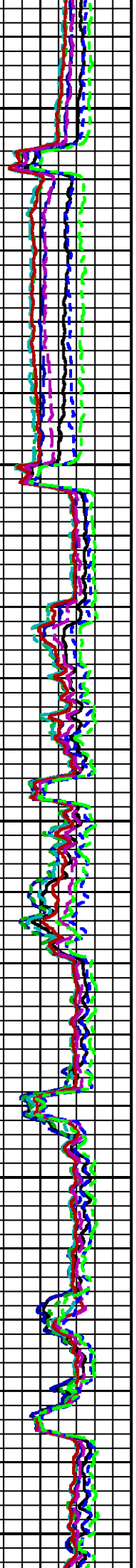
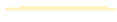
3500

3600



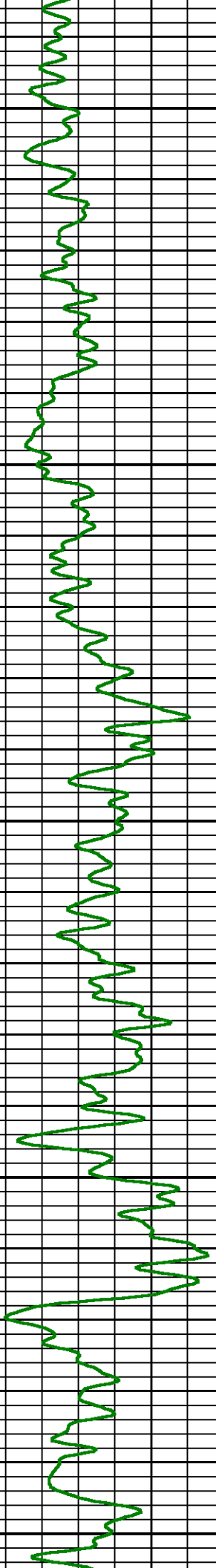
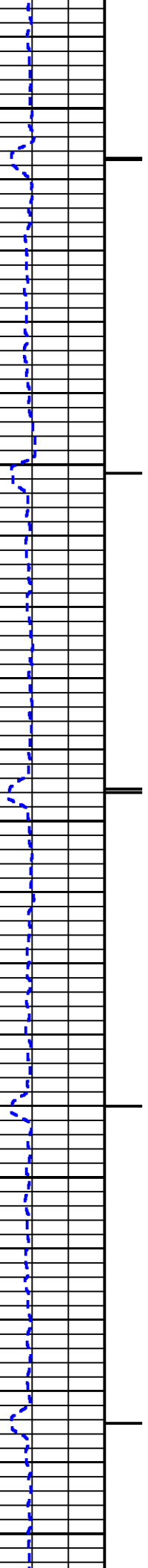


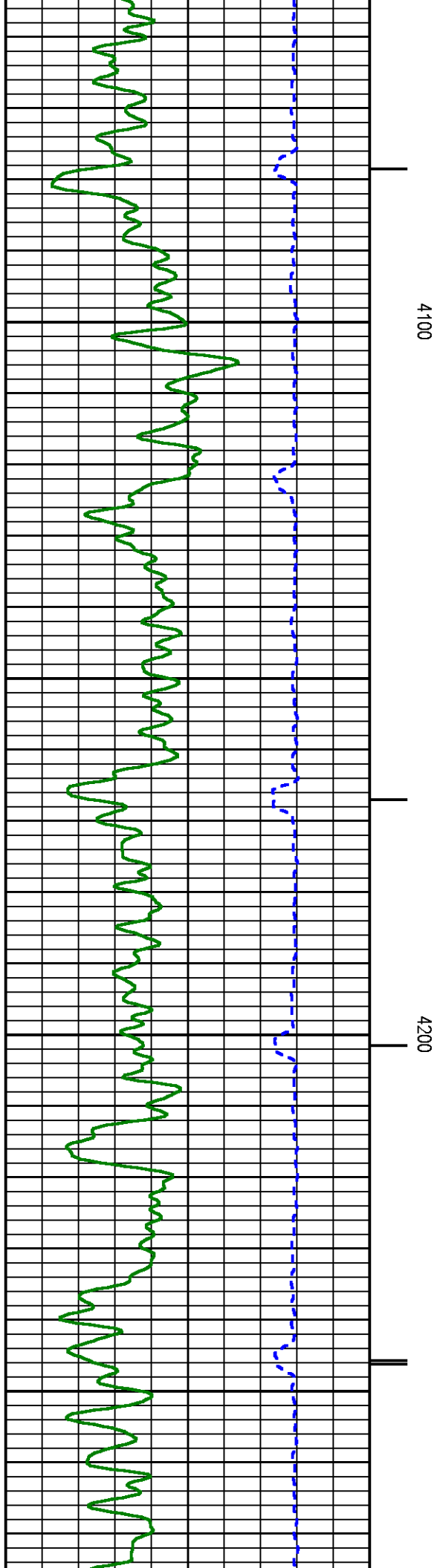
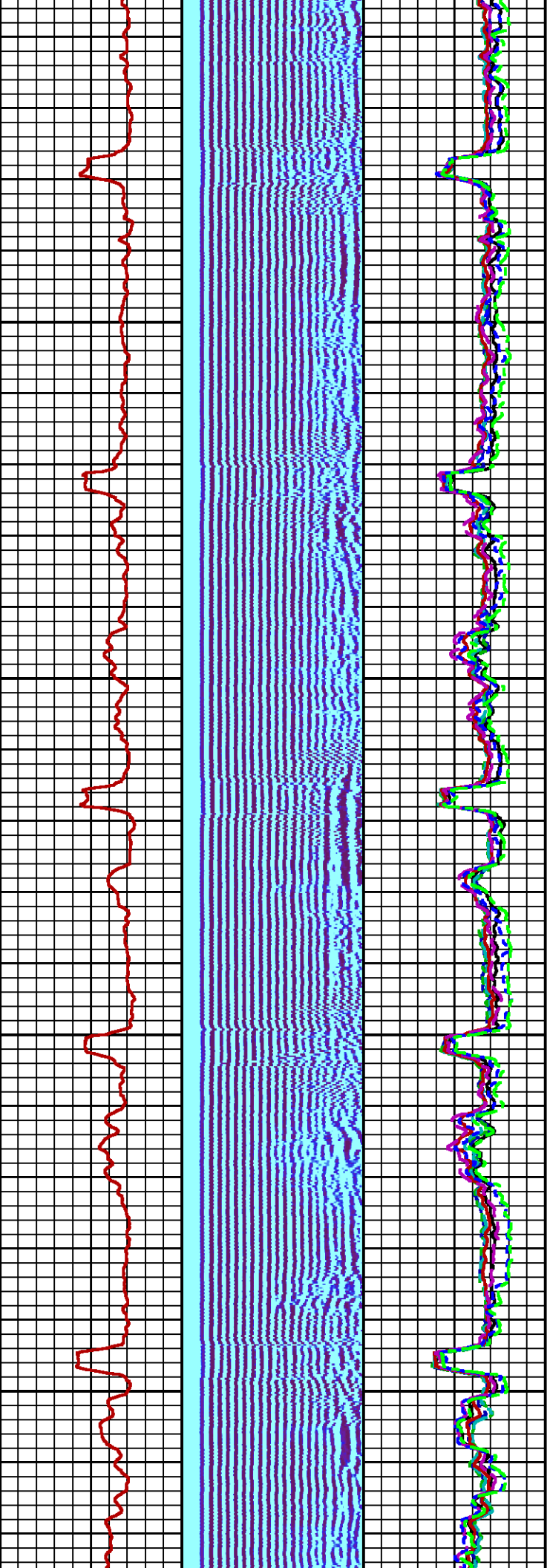


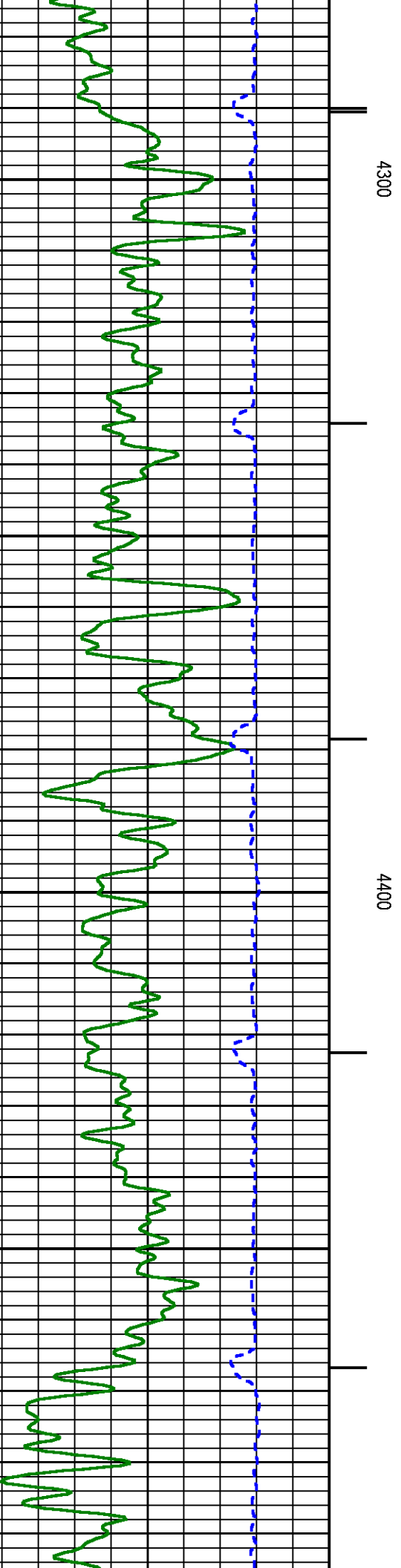
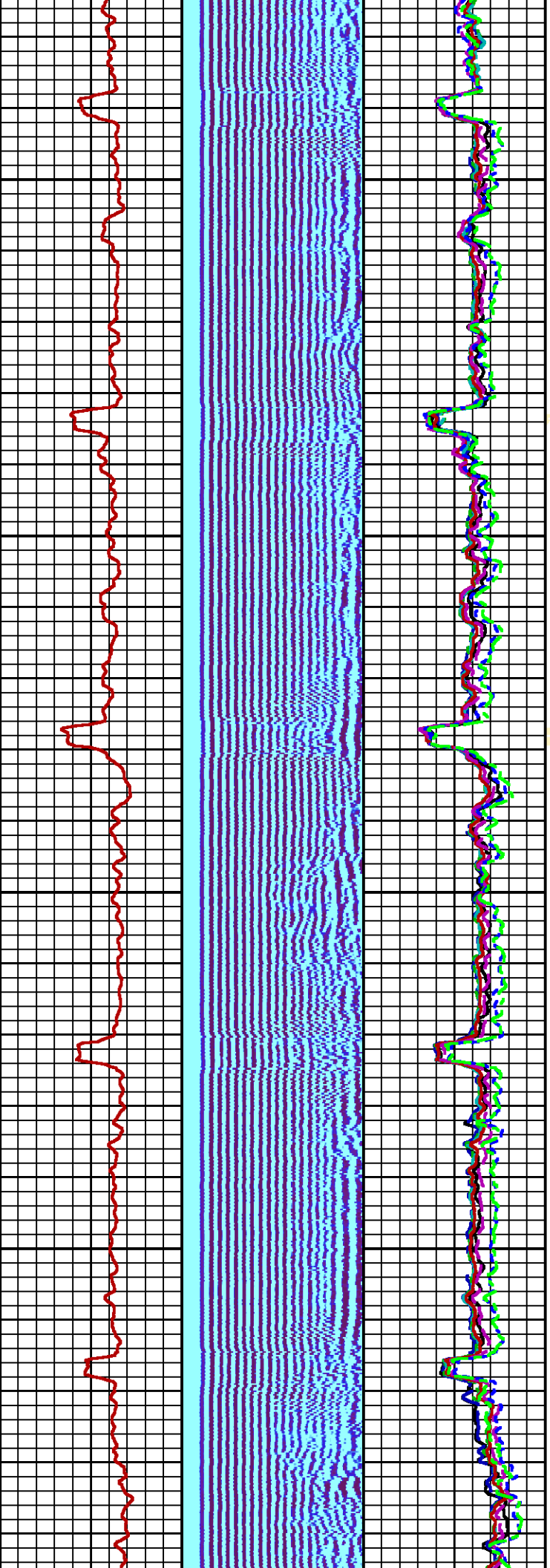


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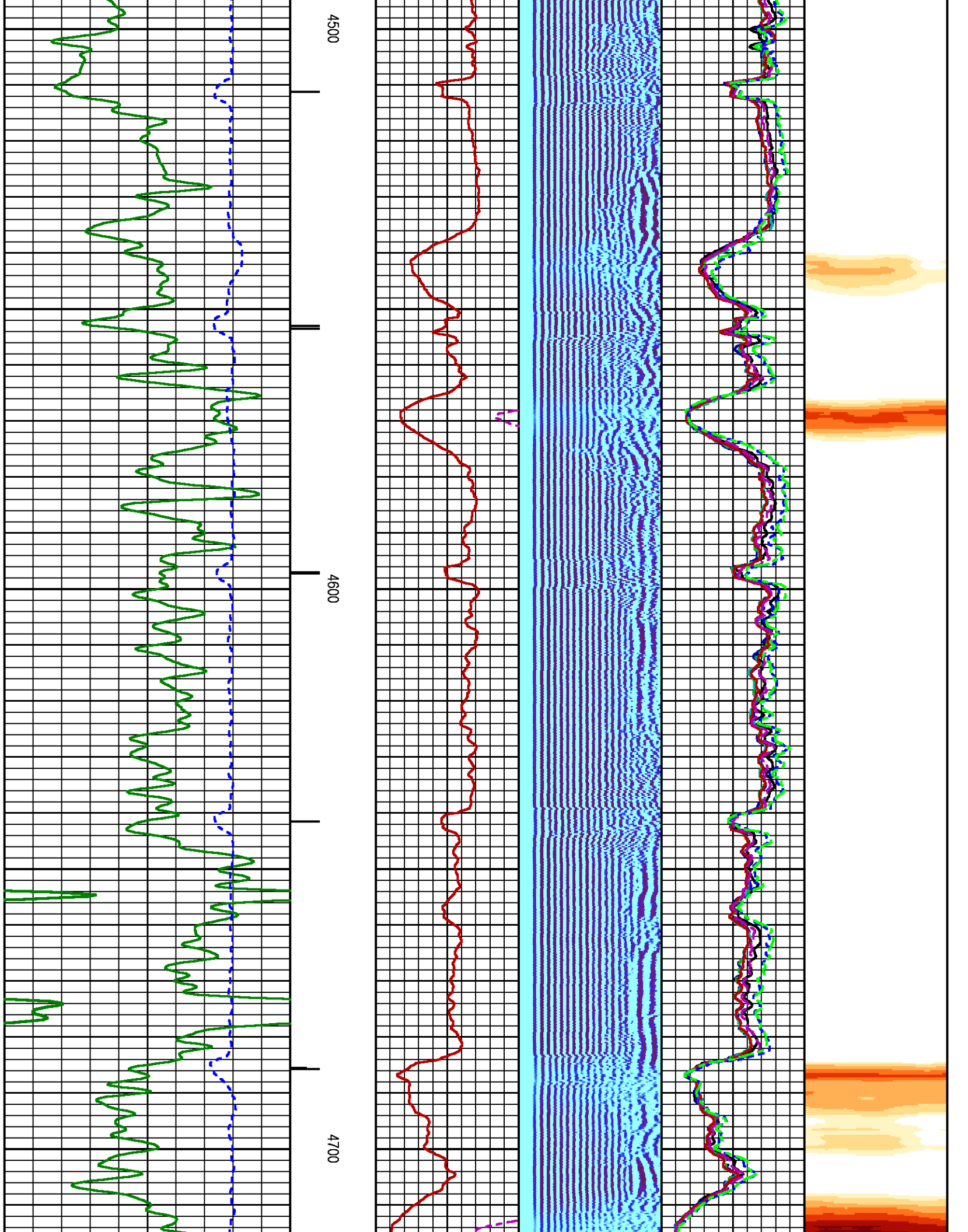
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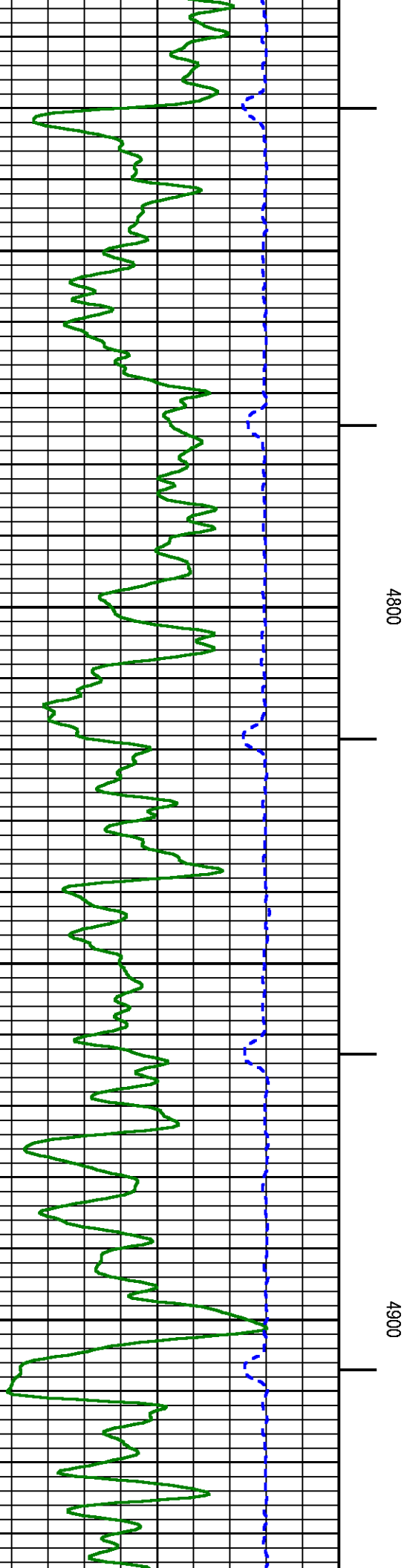
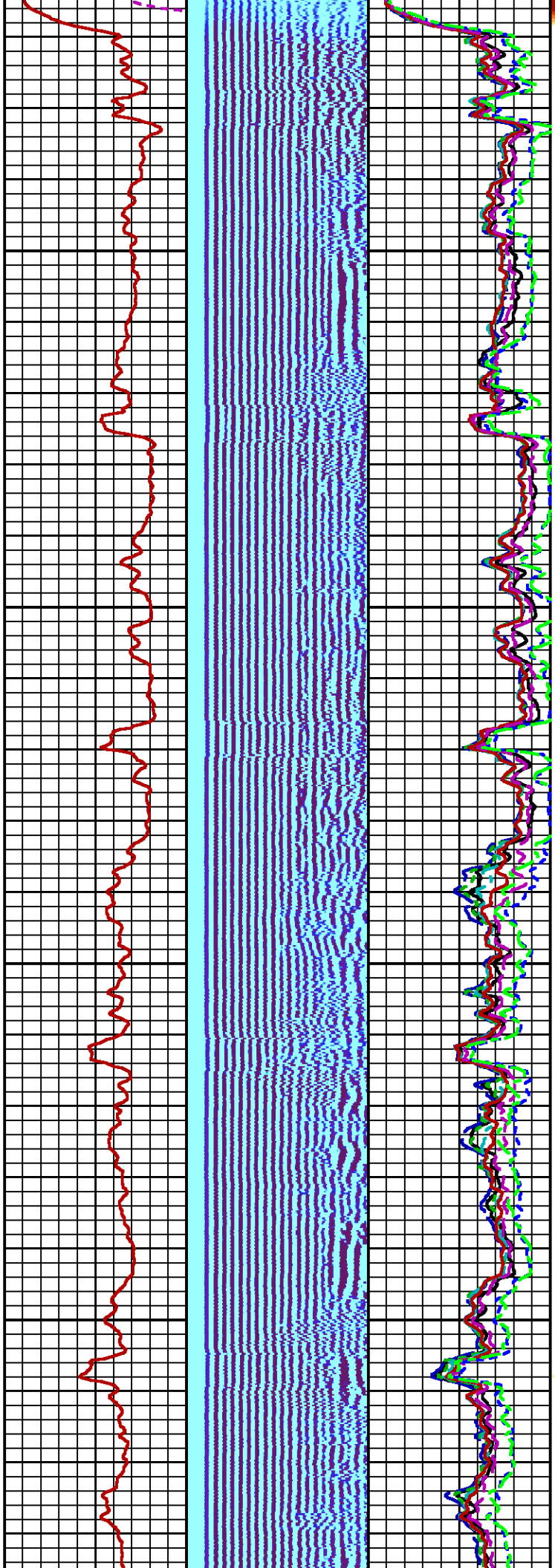


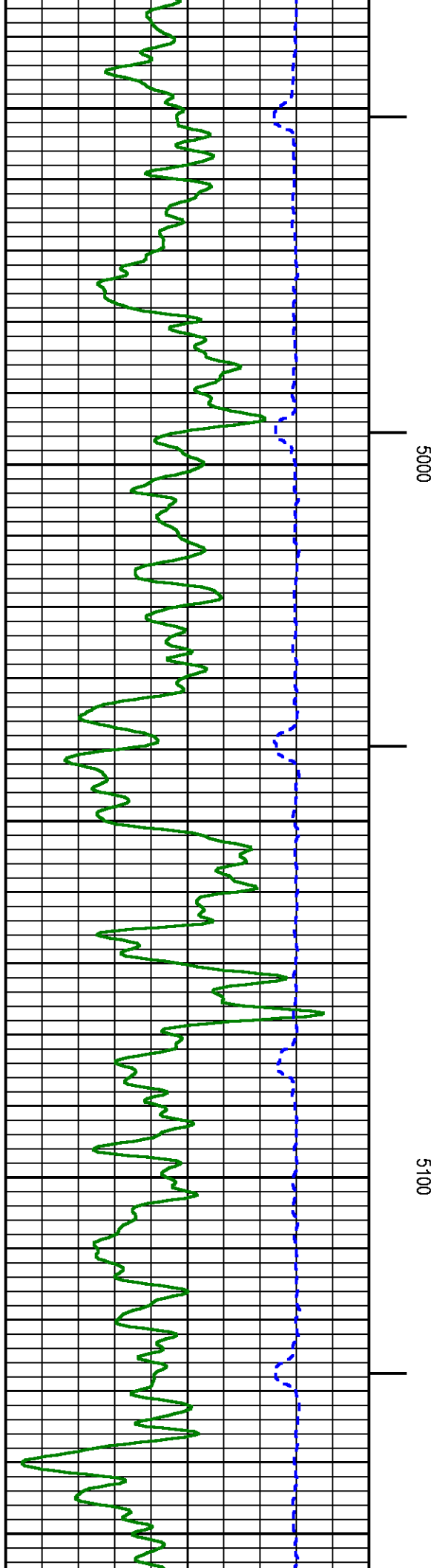
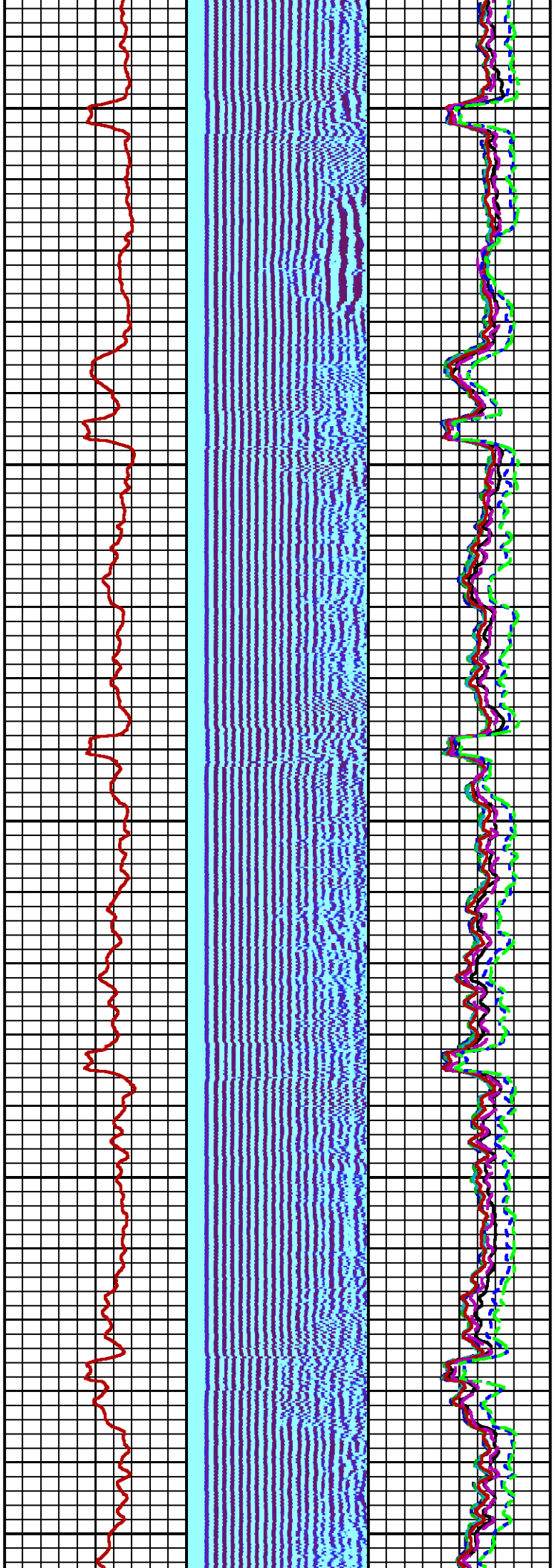


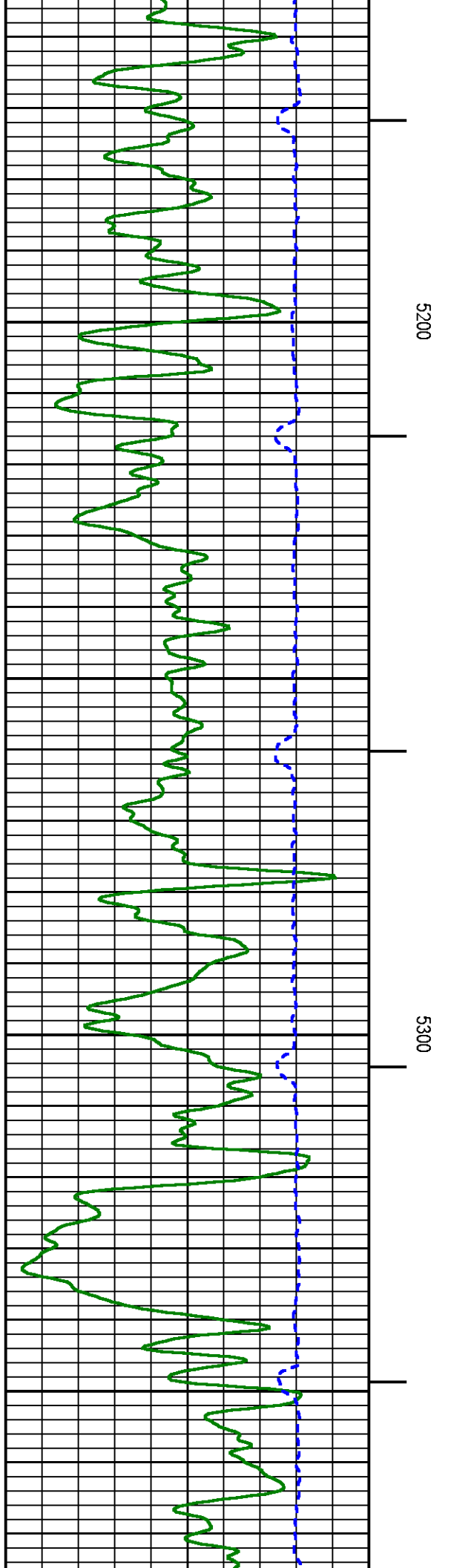
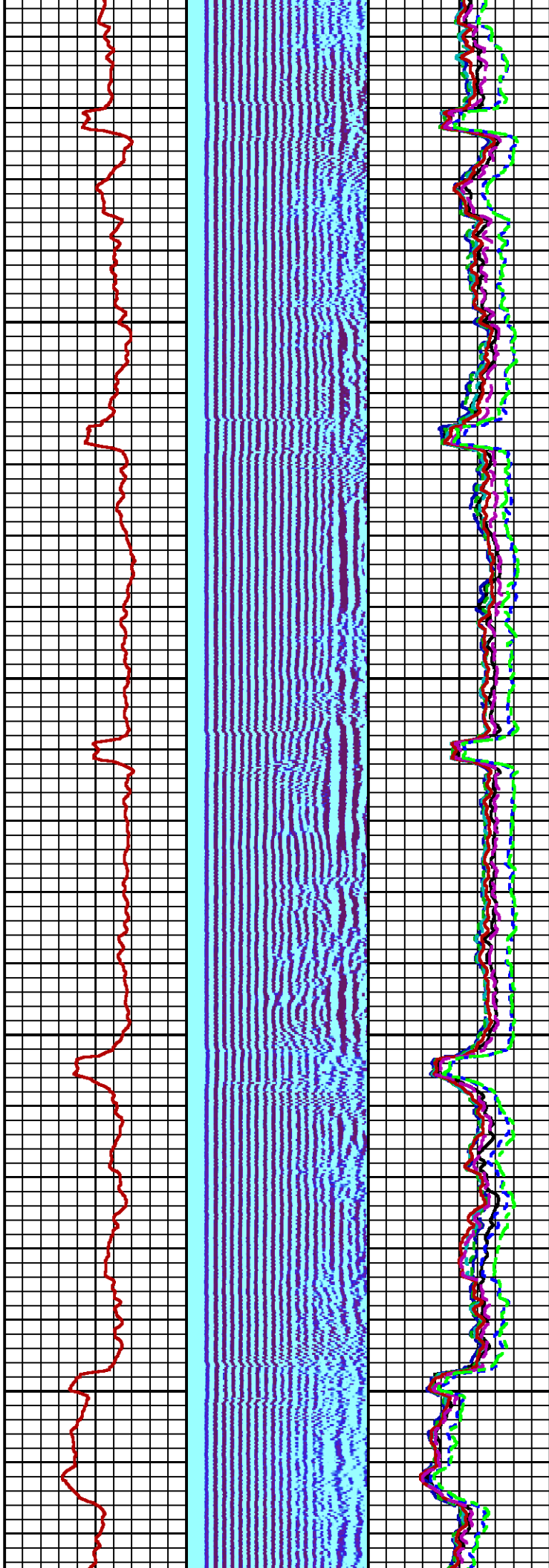
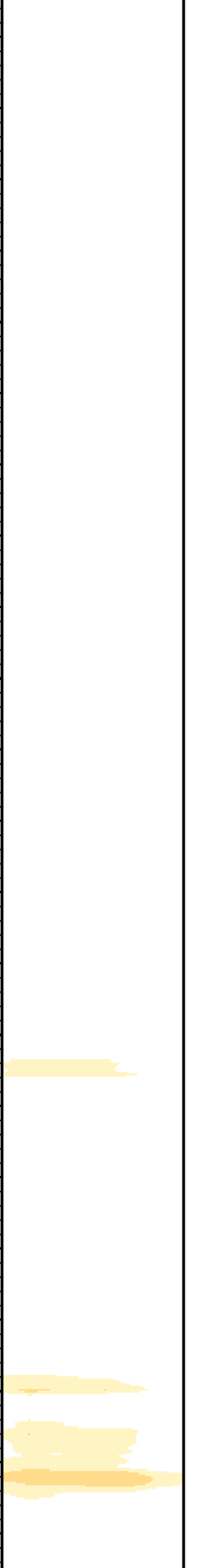


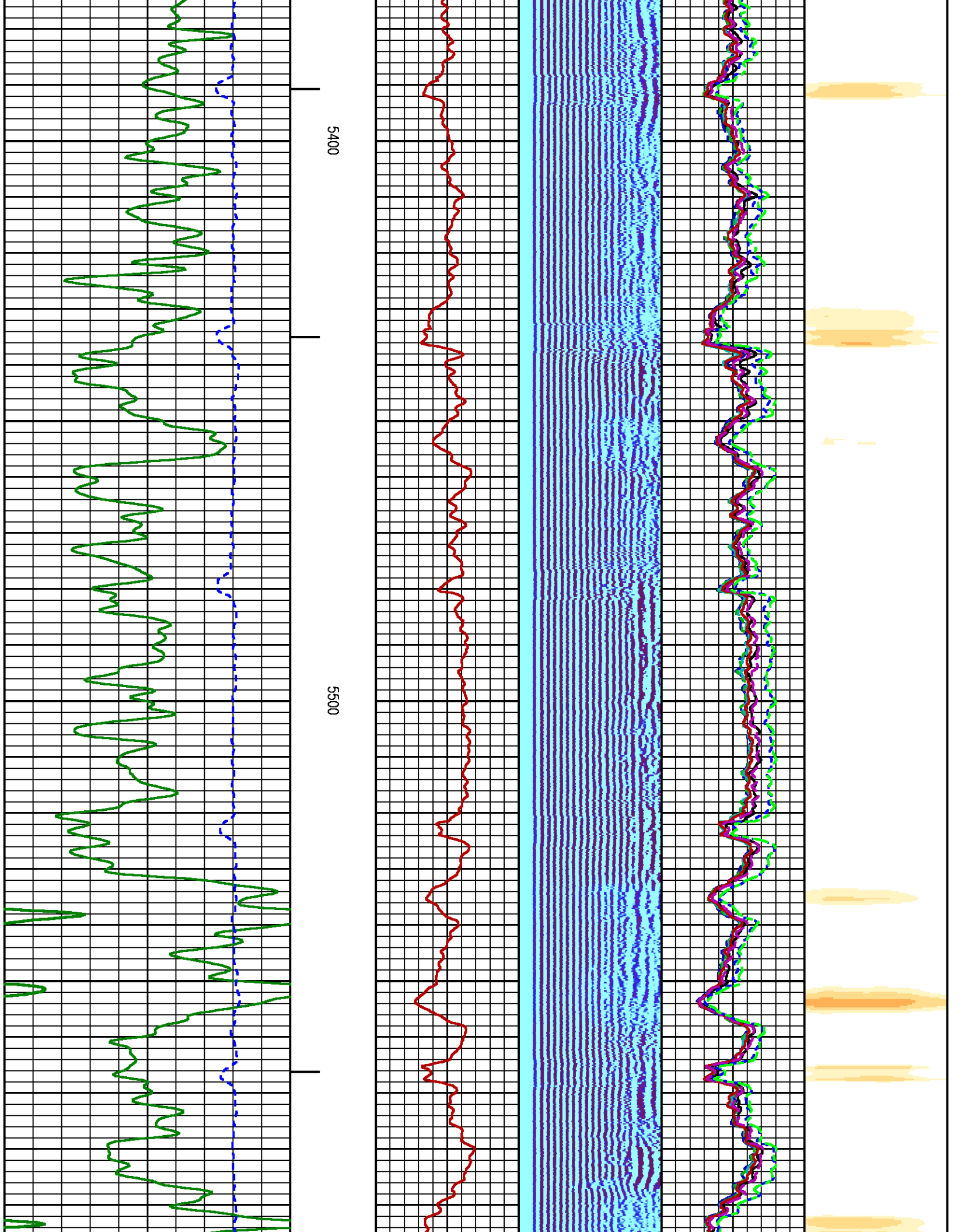




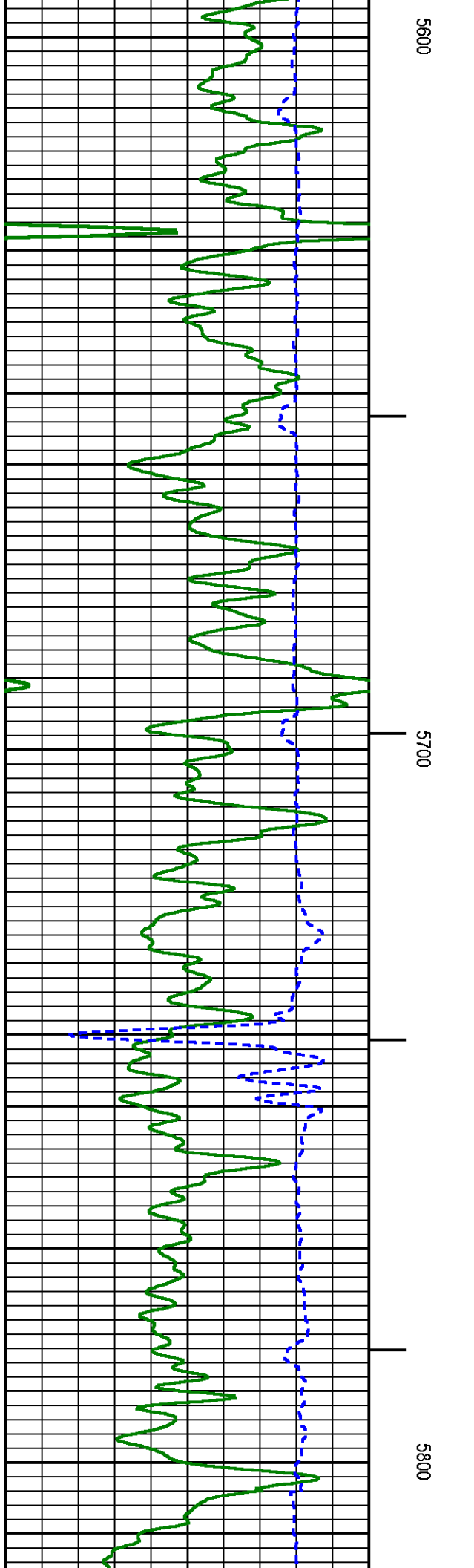
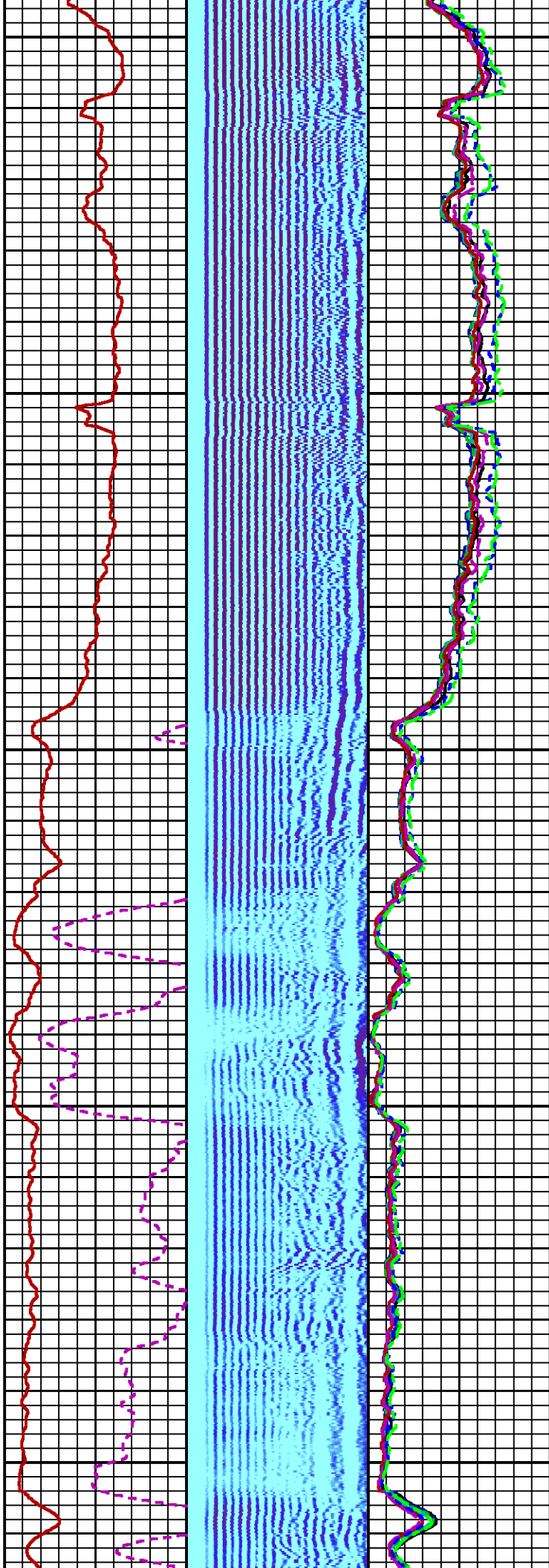
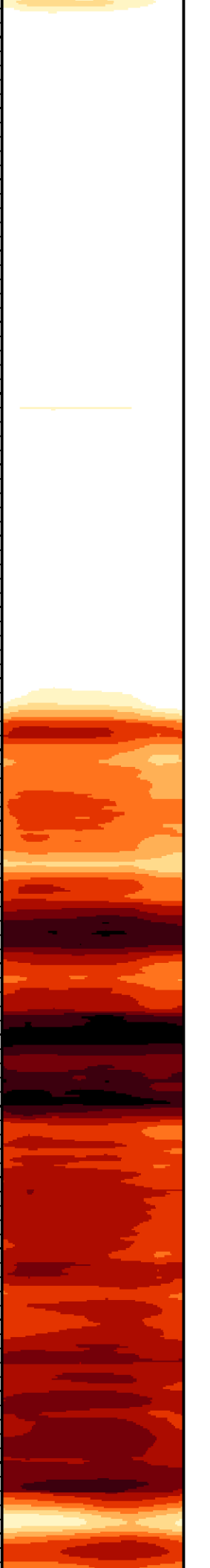




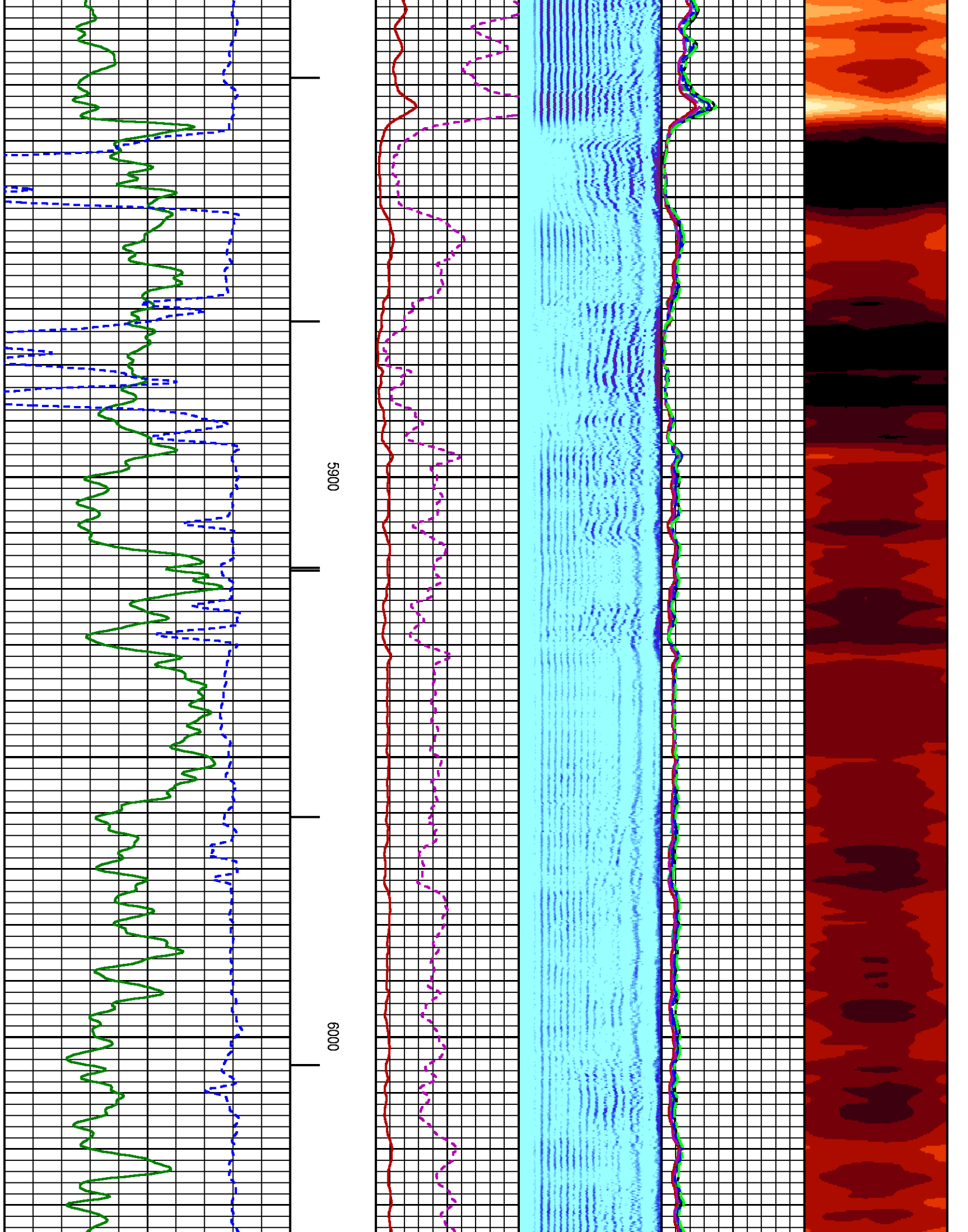


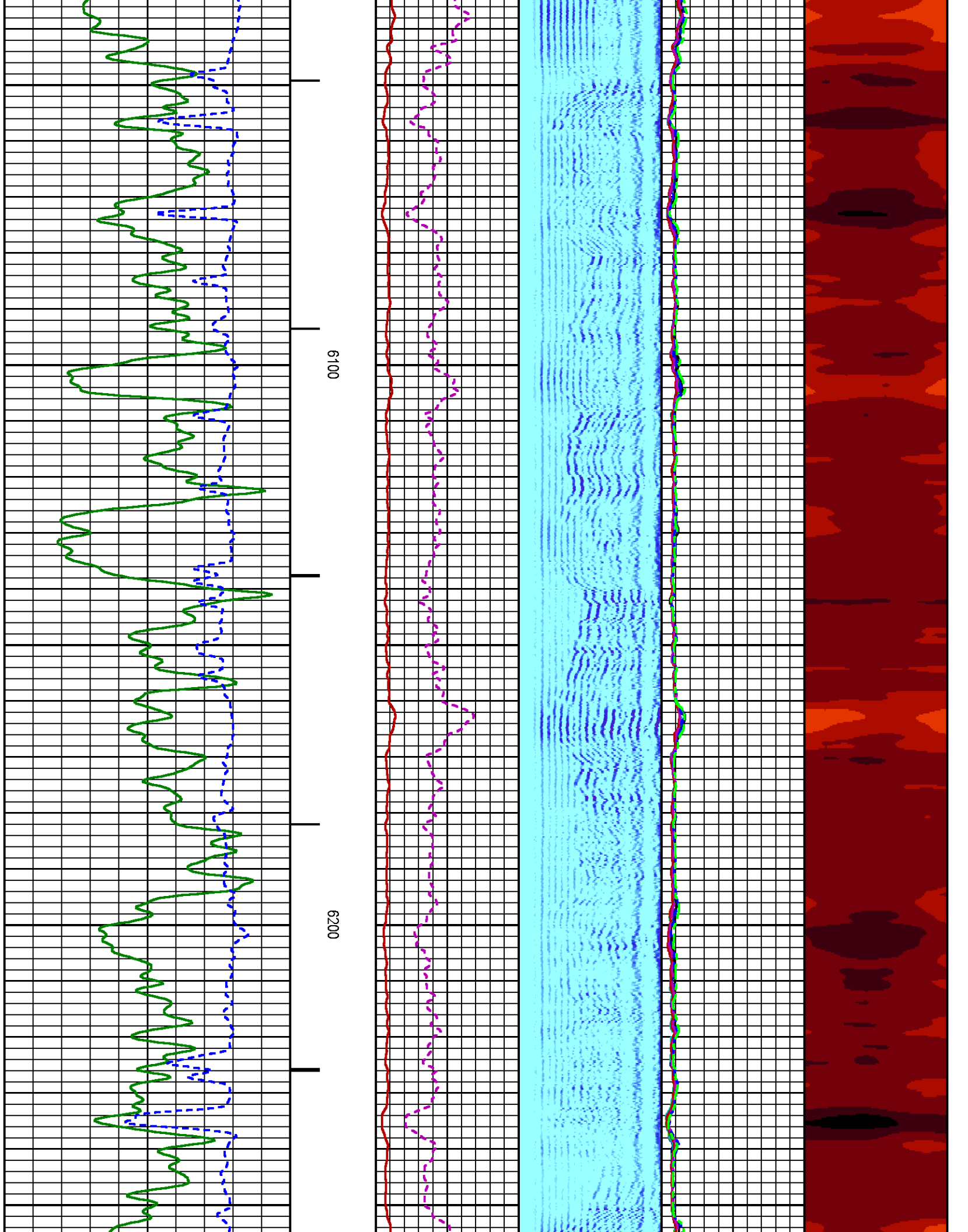


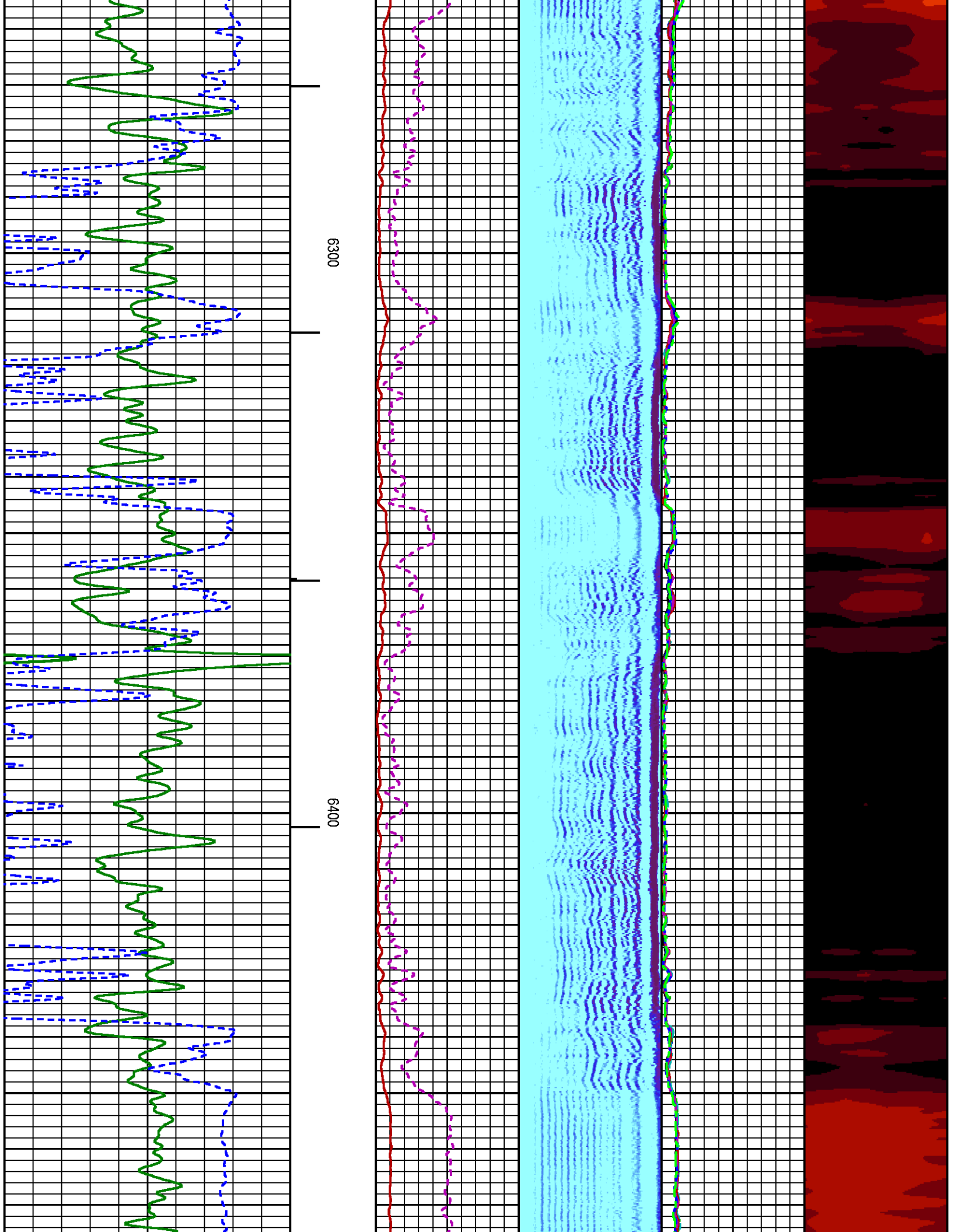


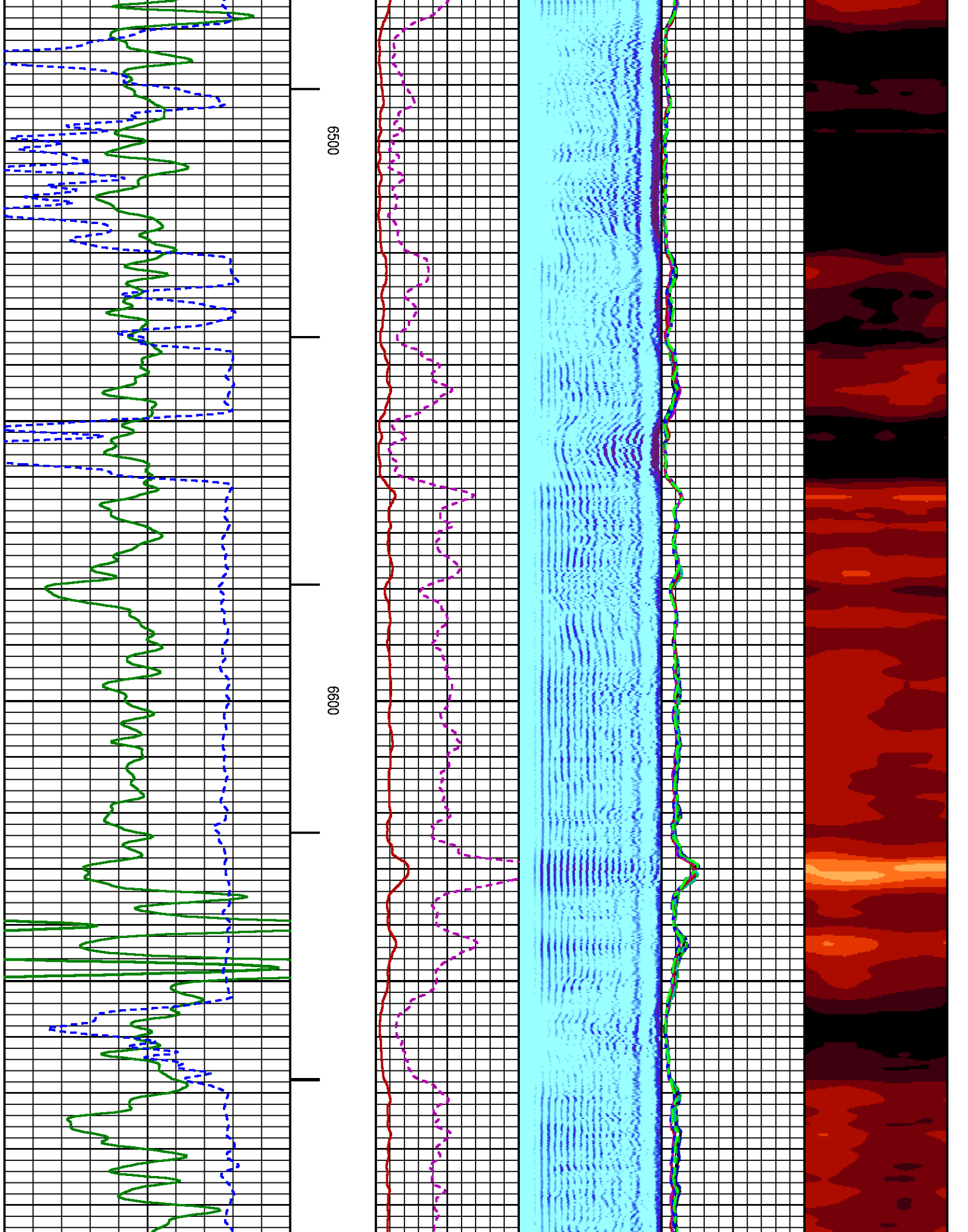


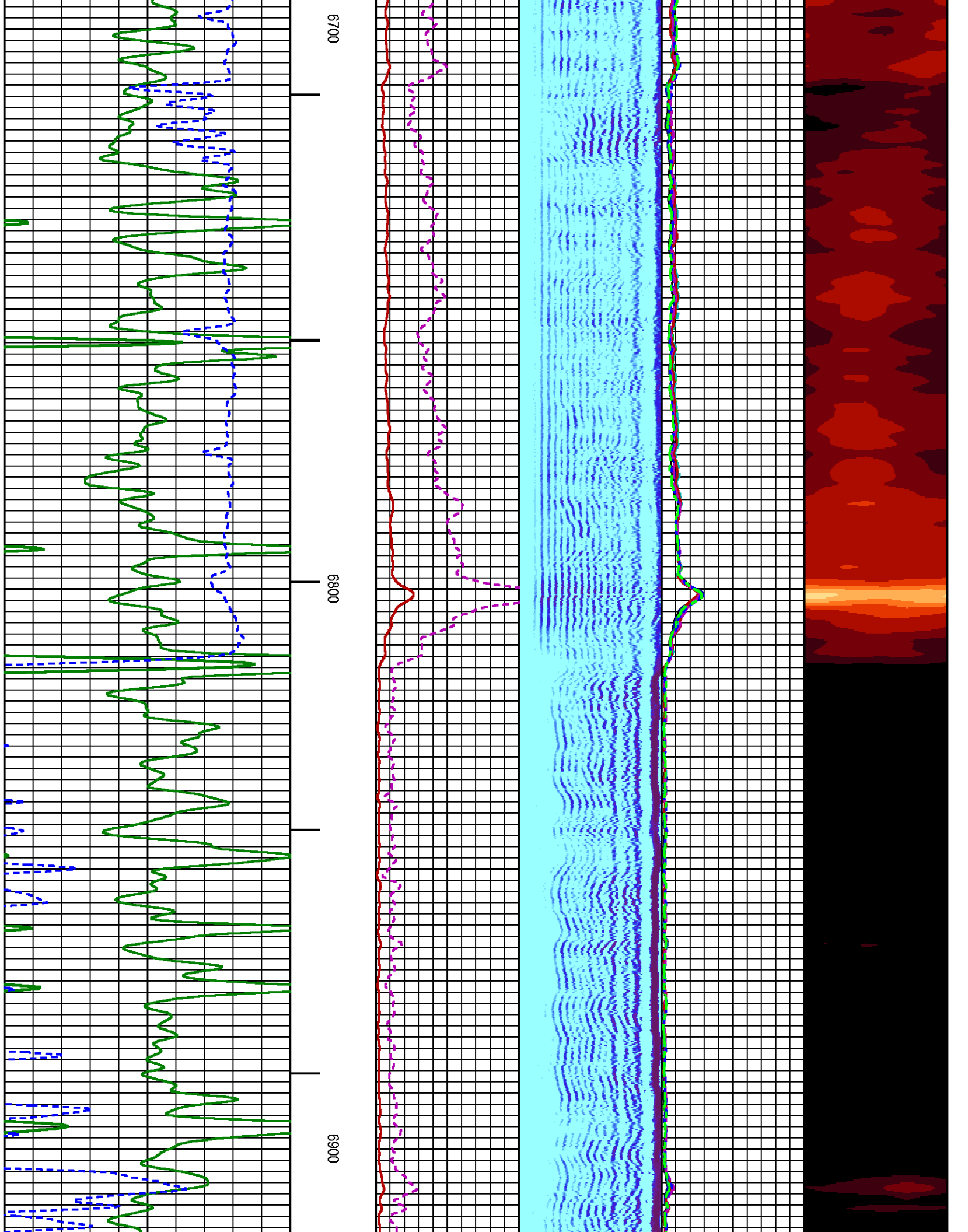




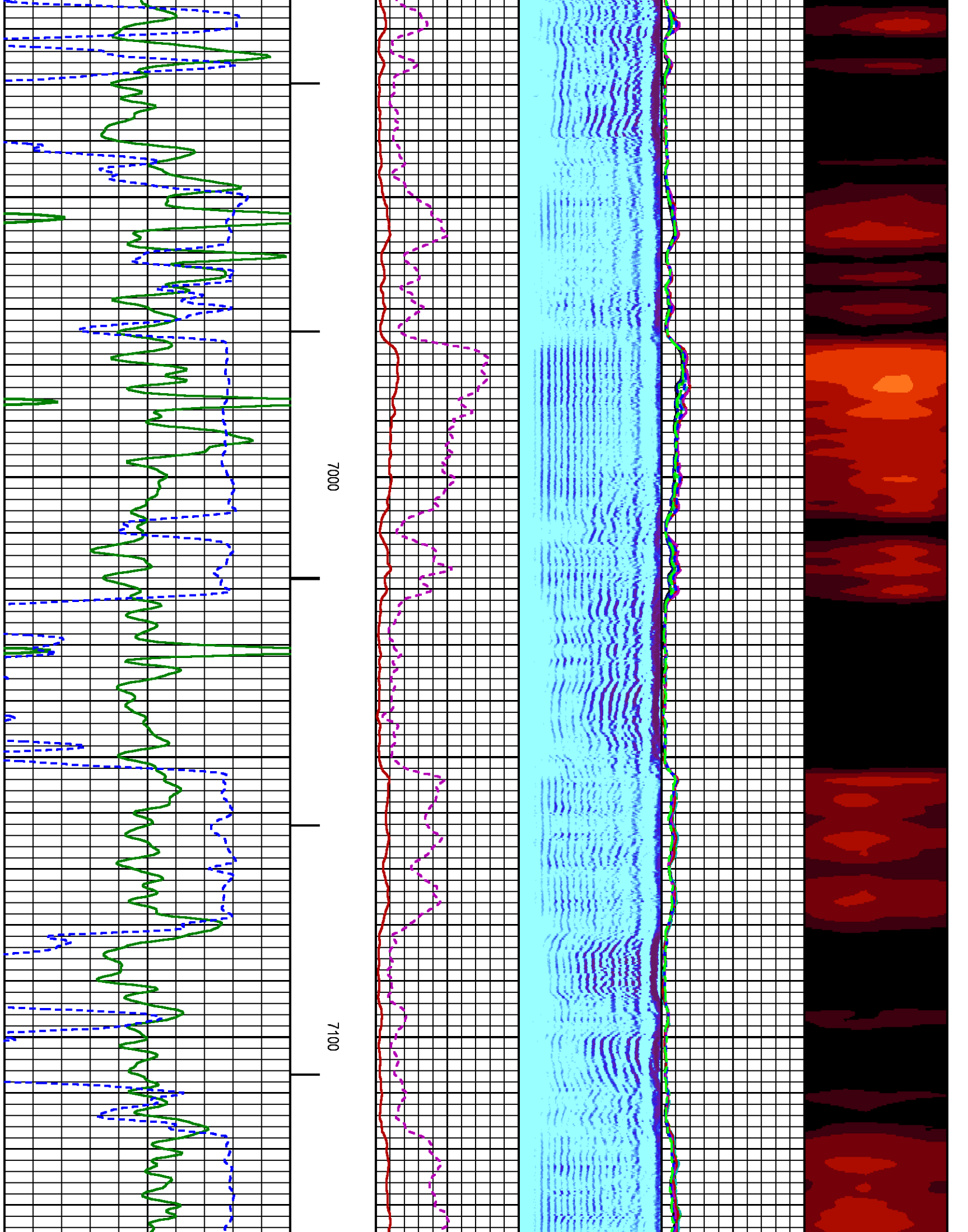


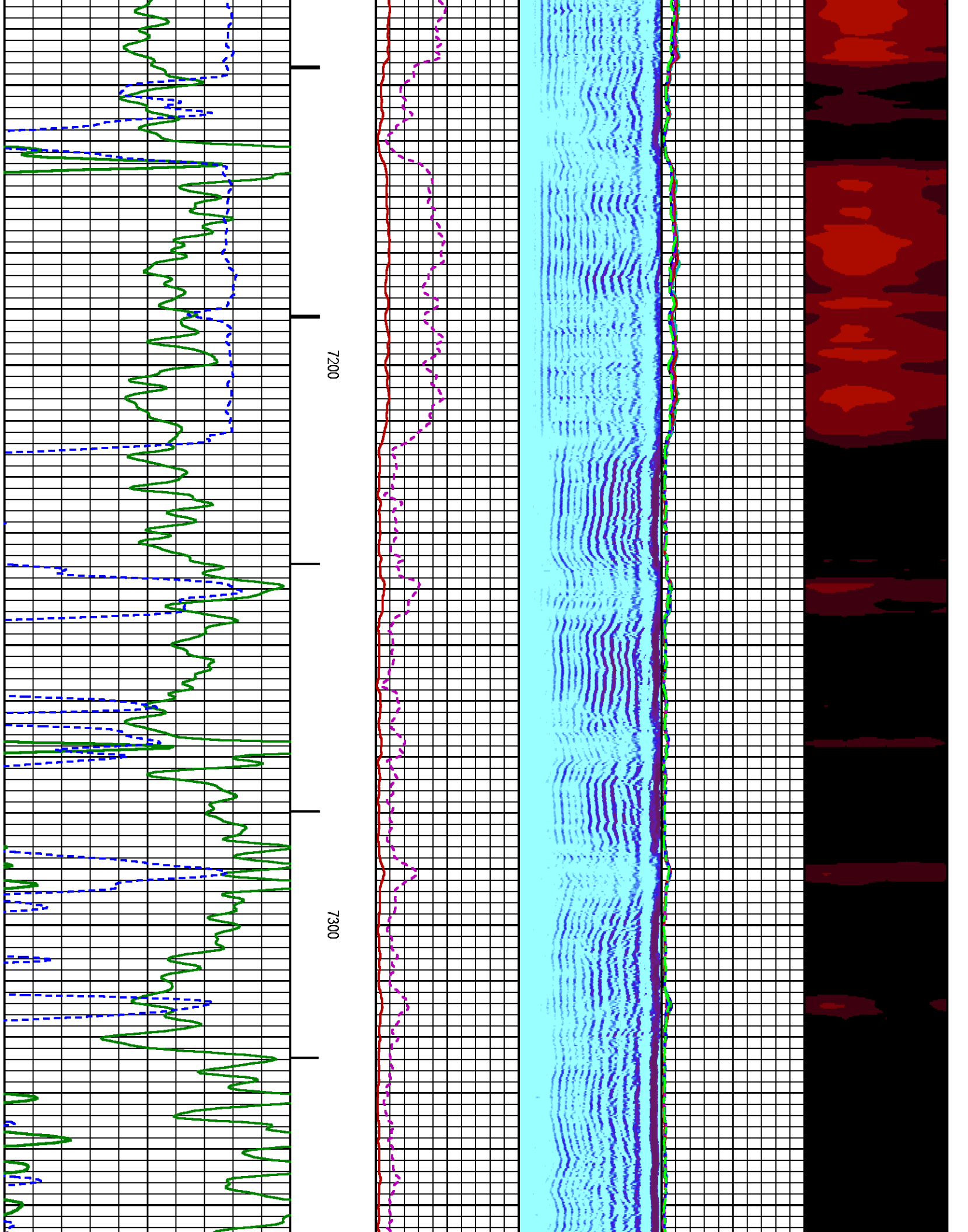


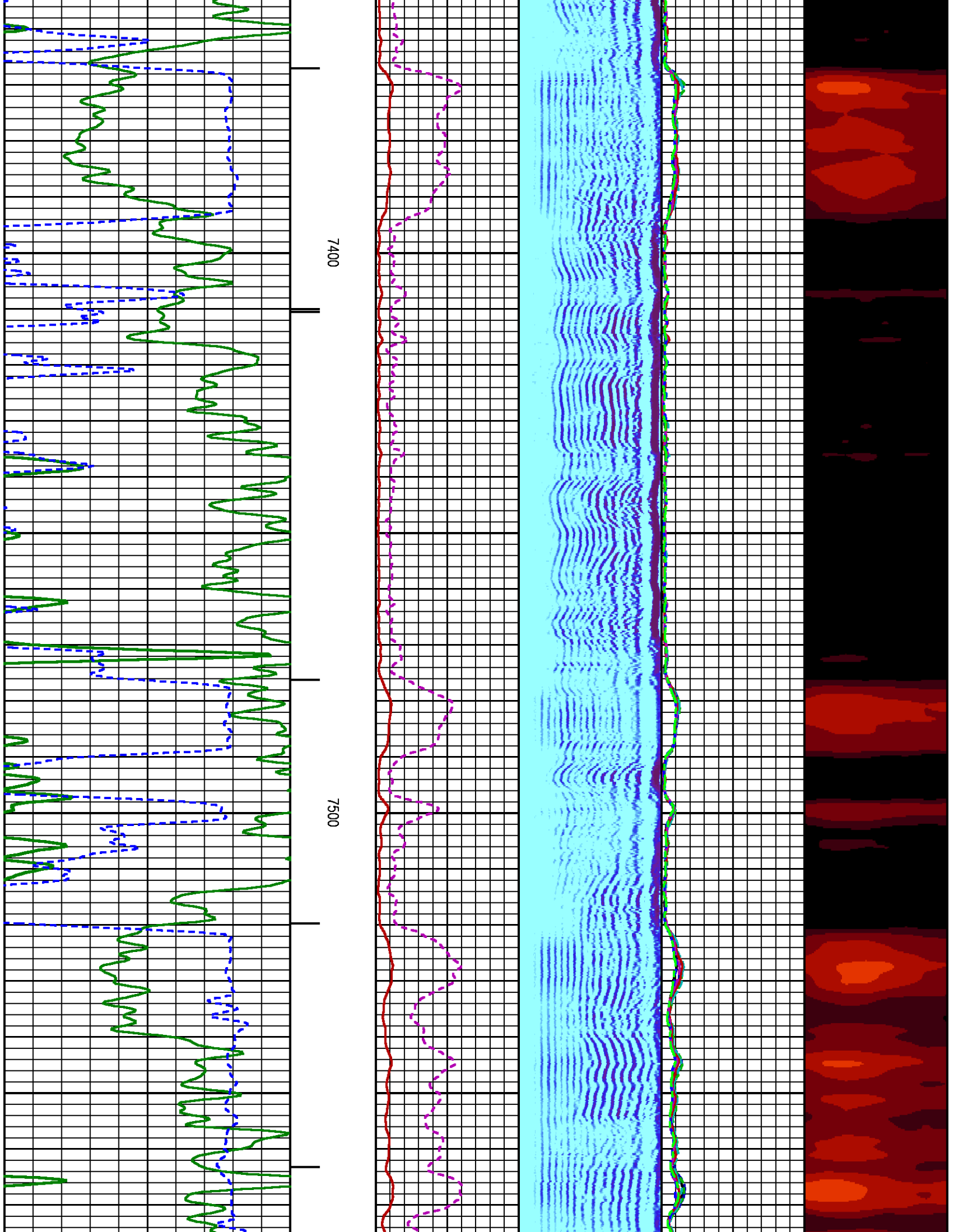


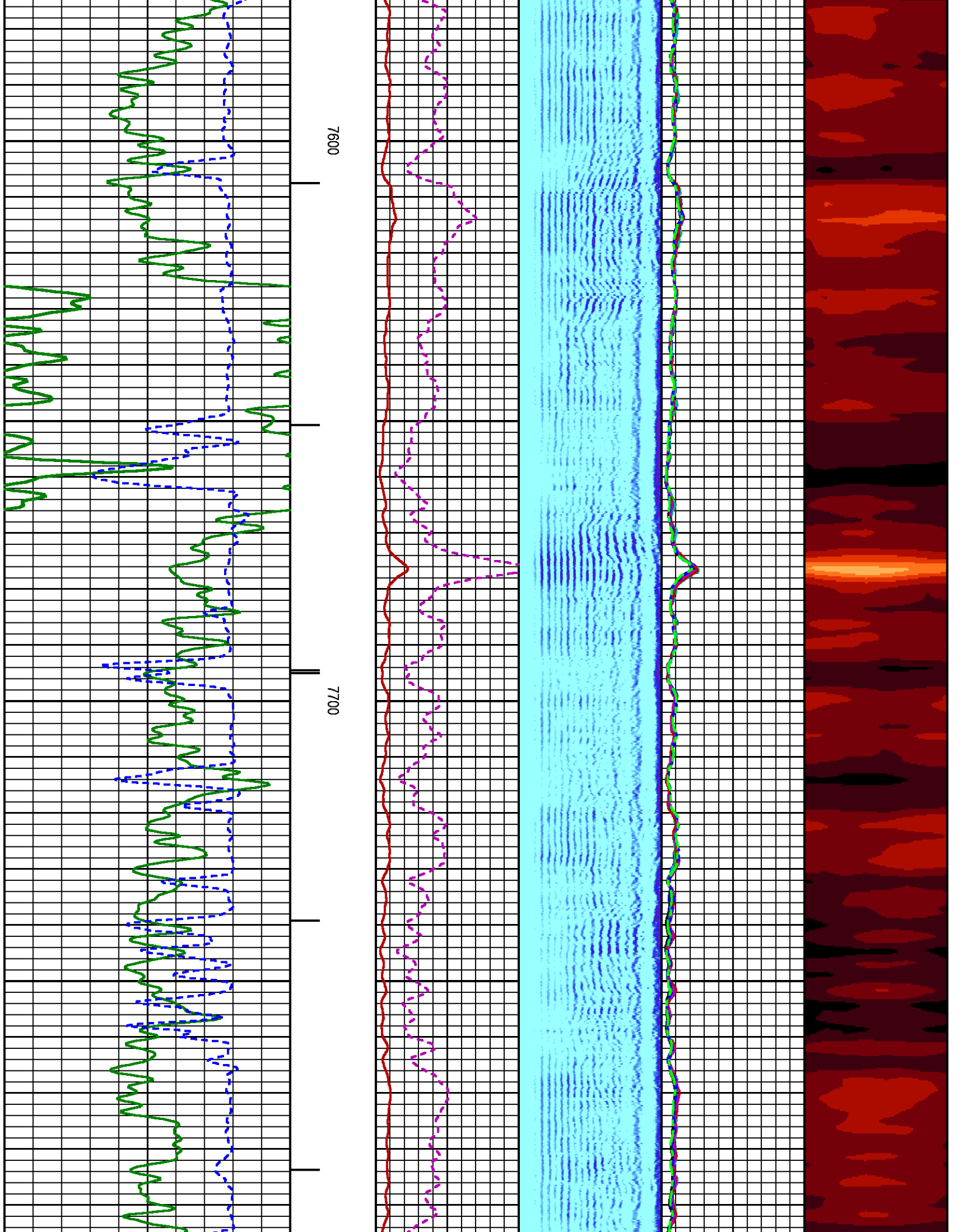


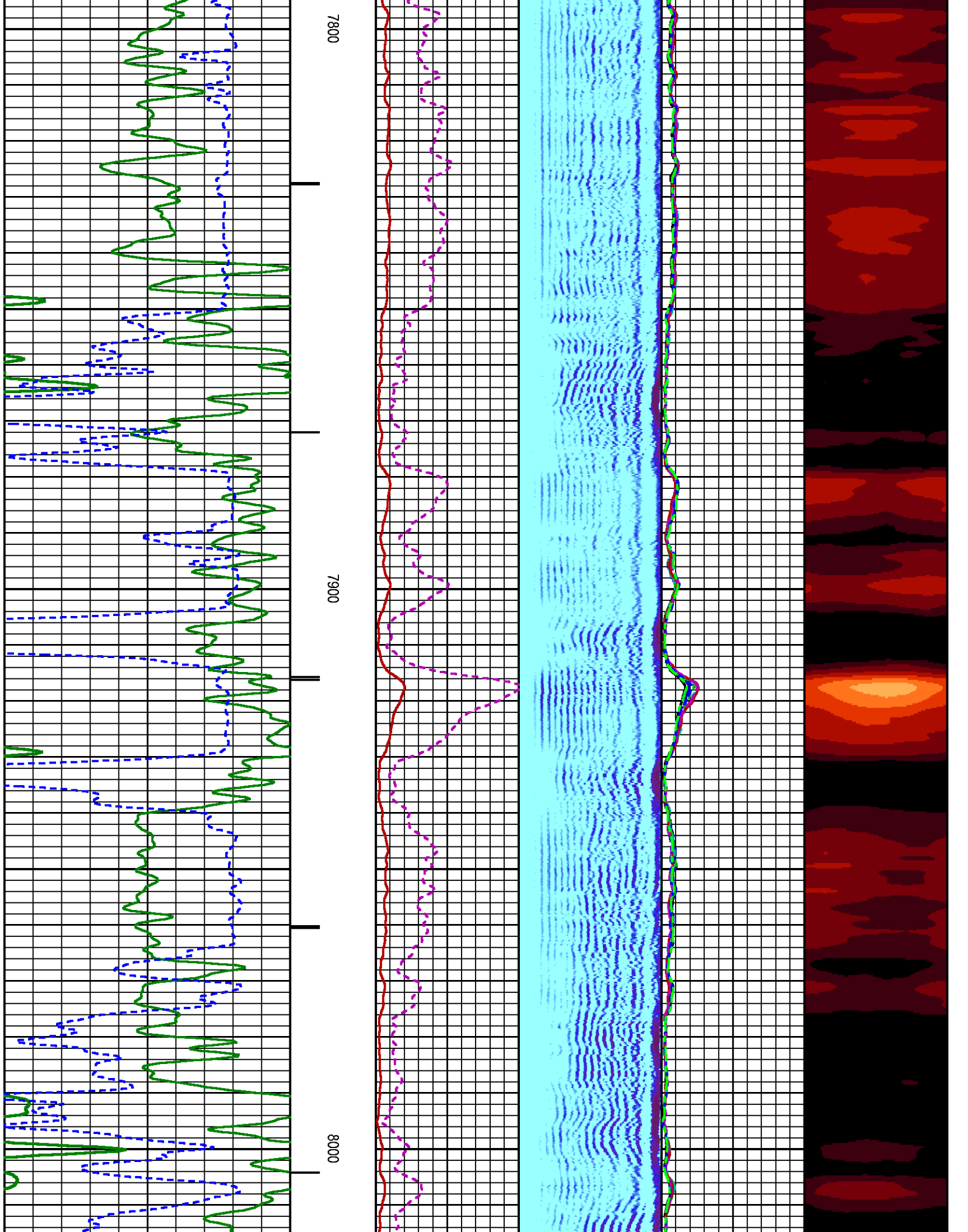




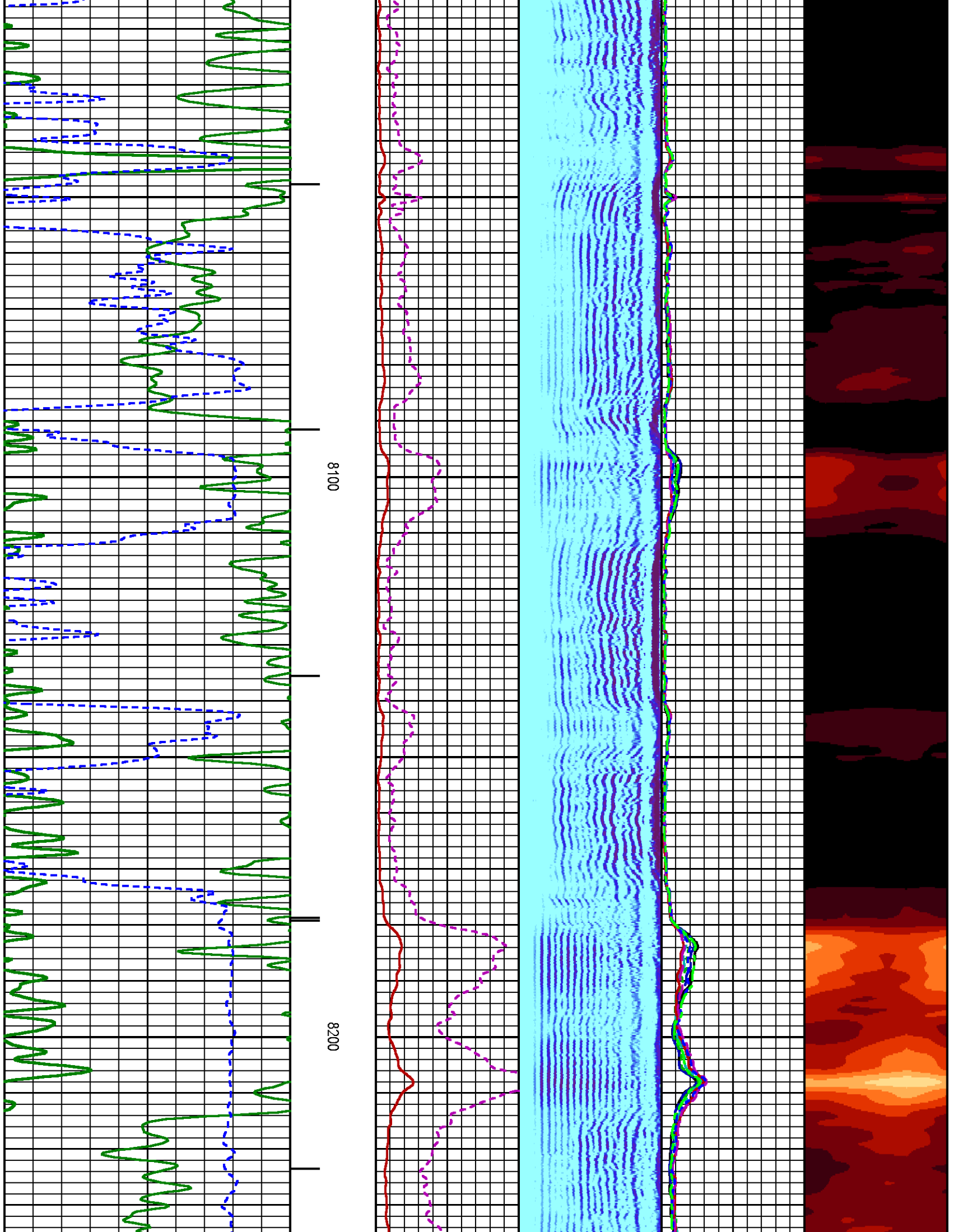


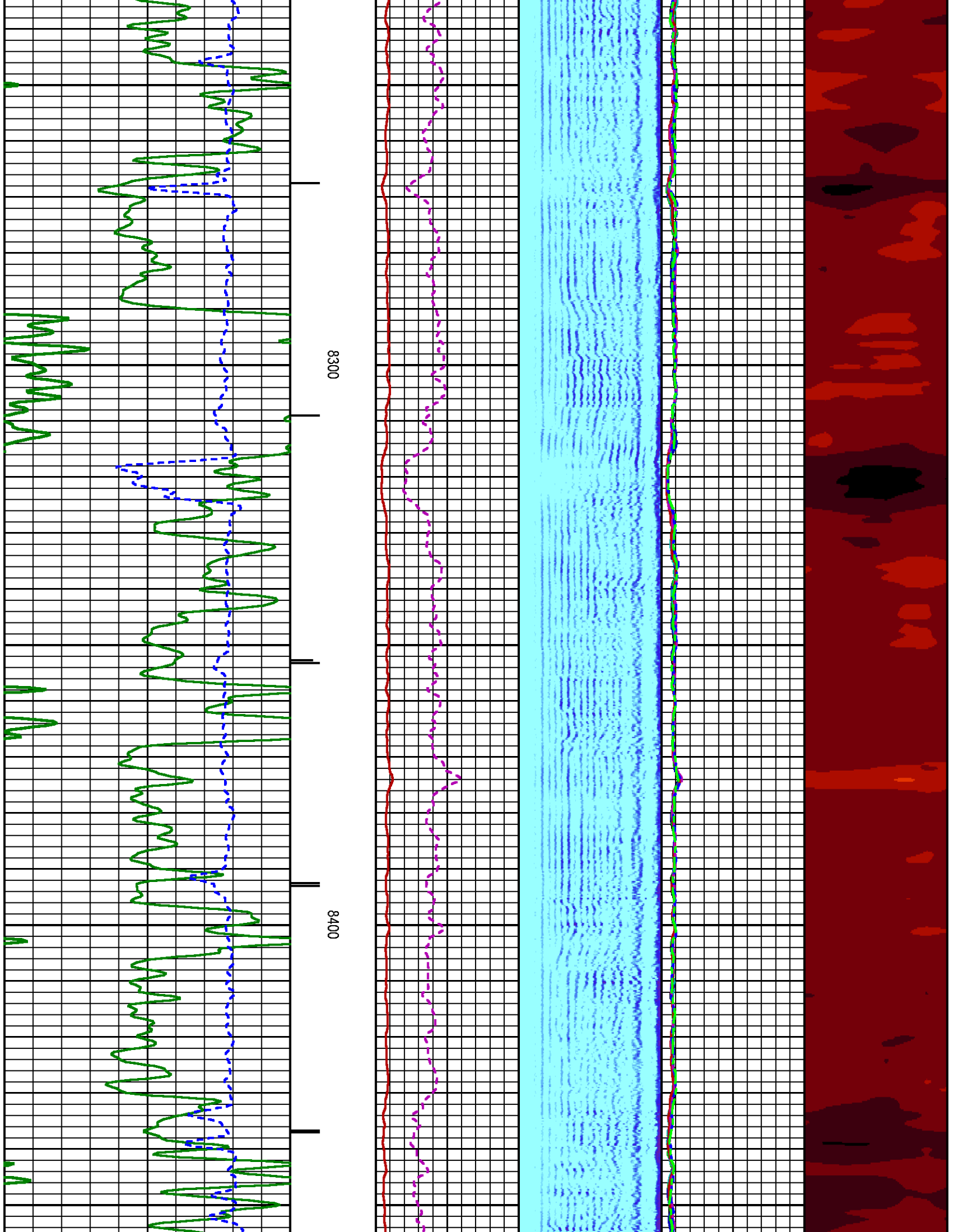


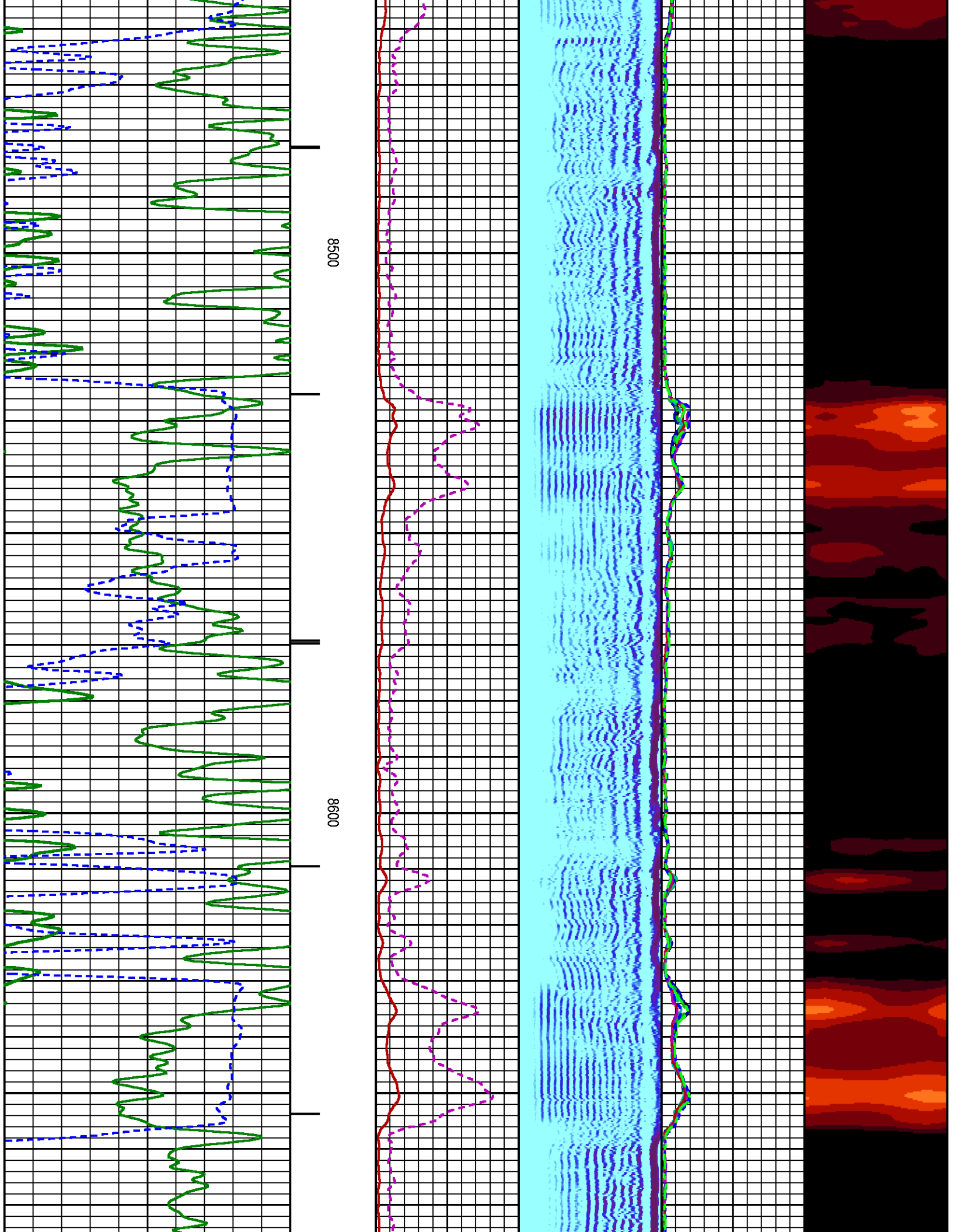


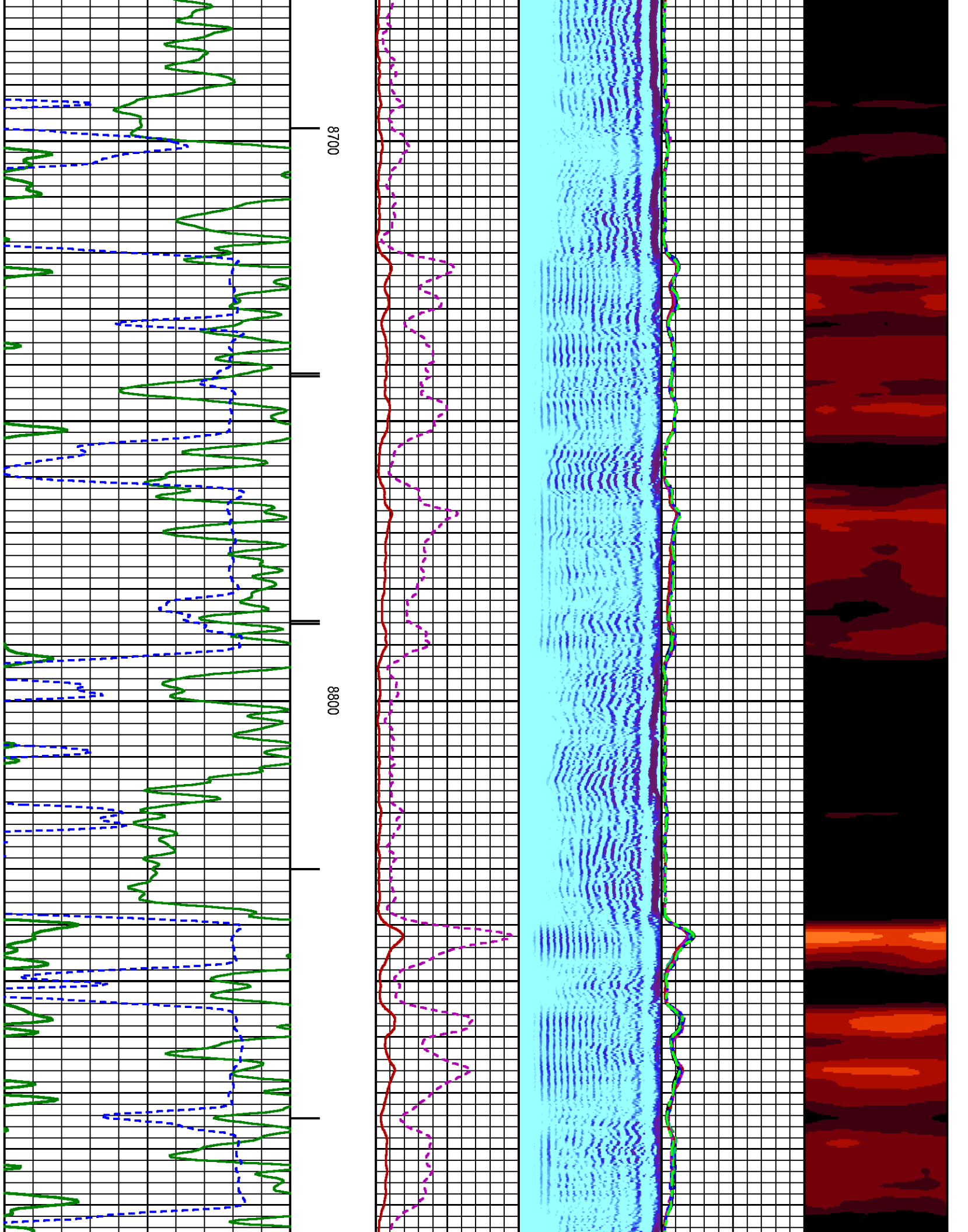


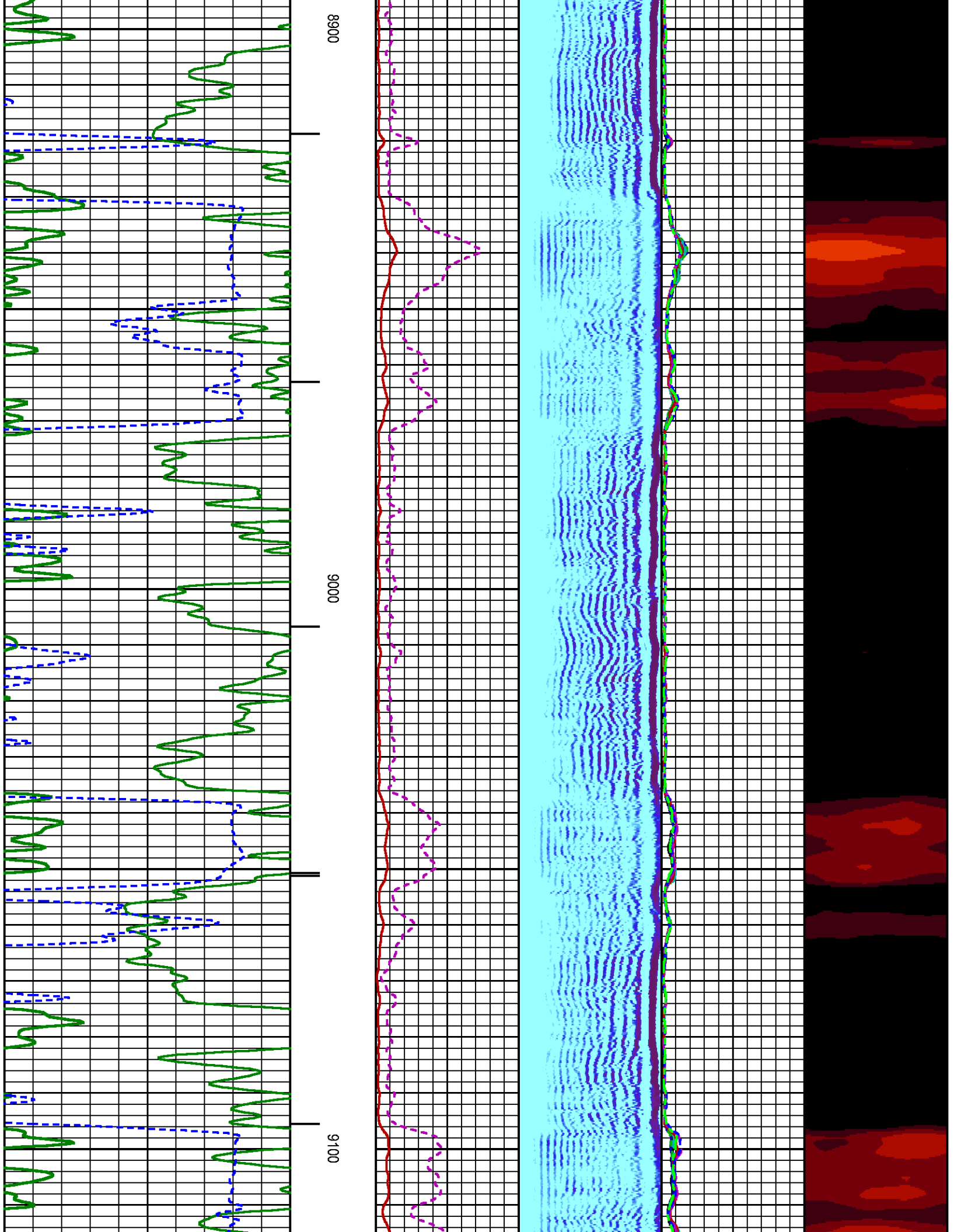




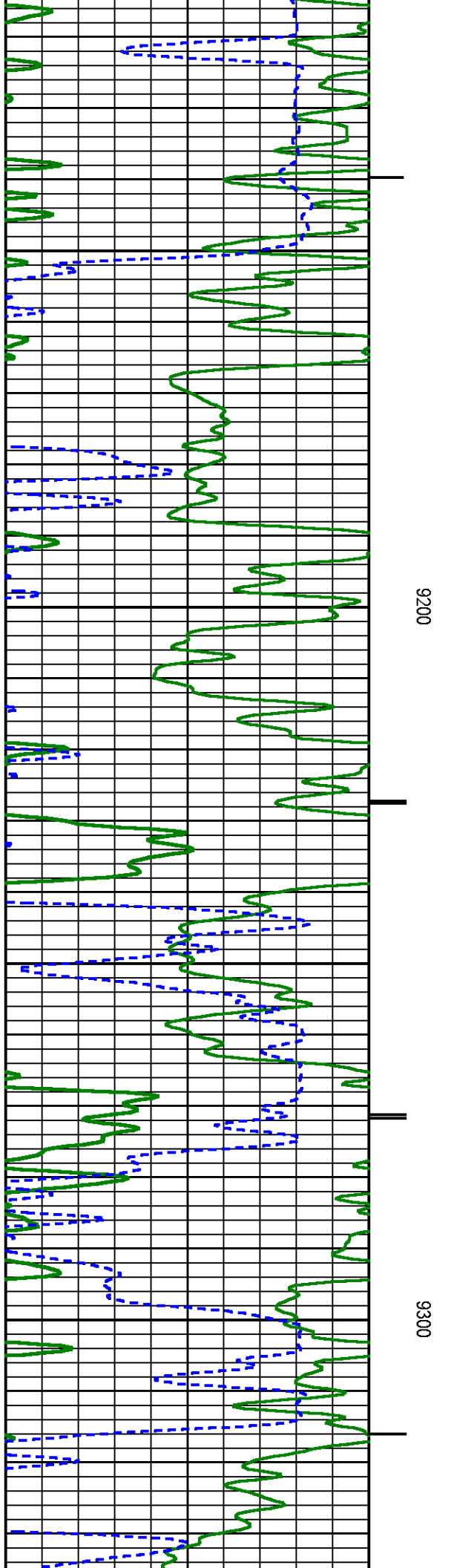
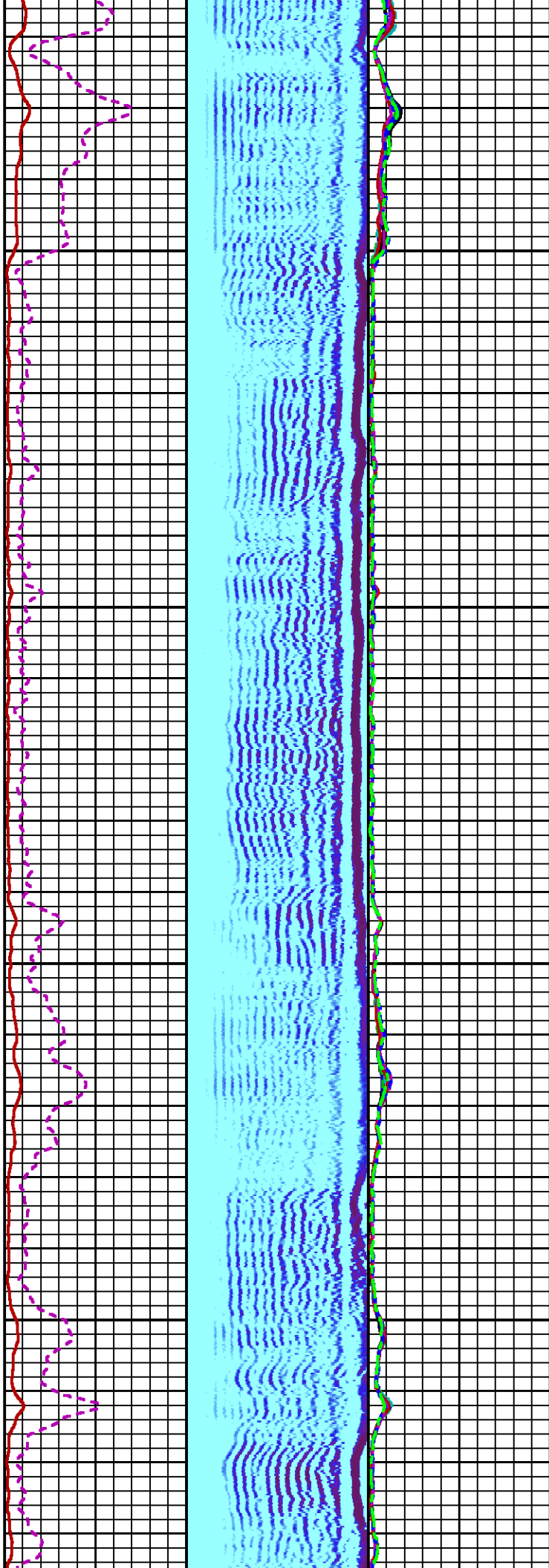


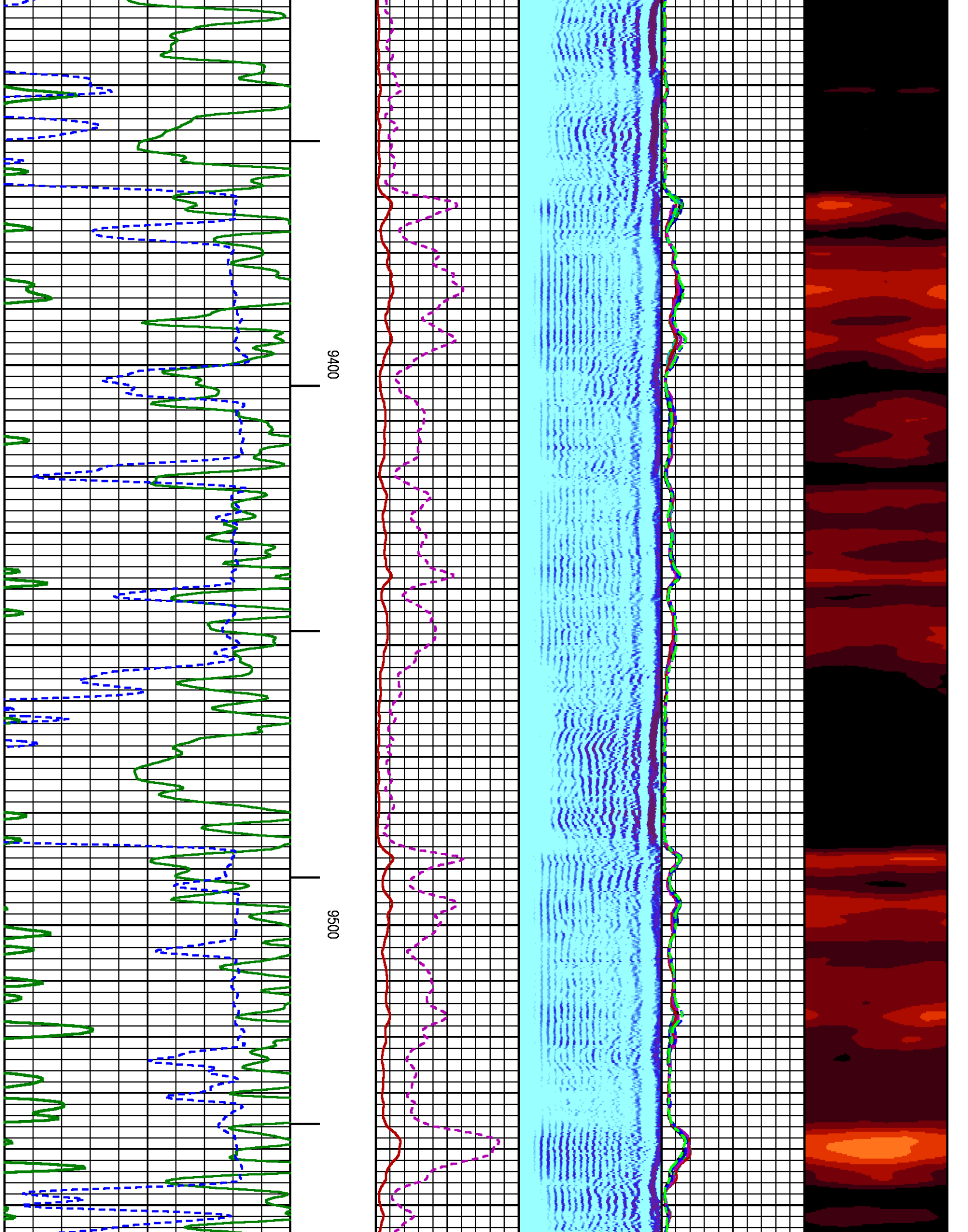


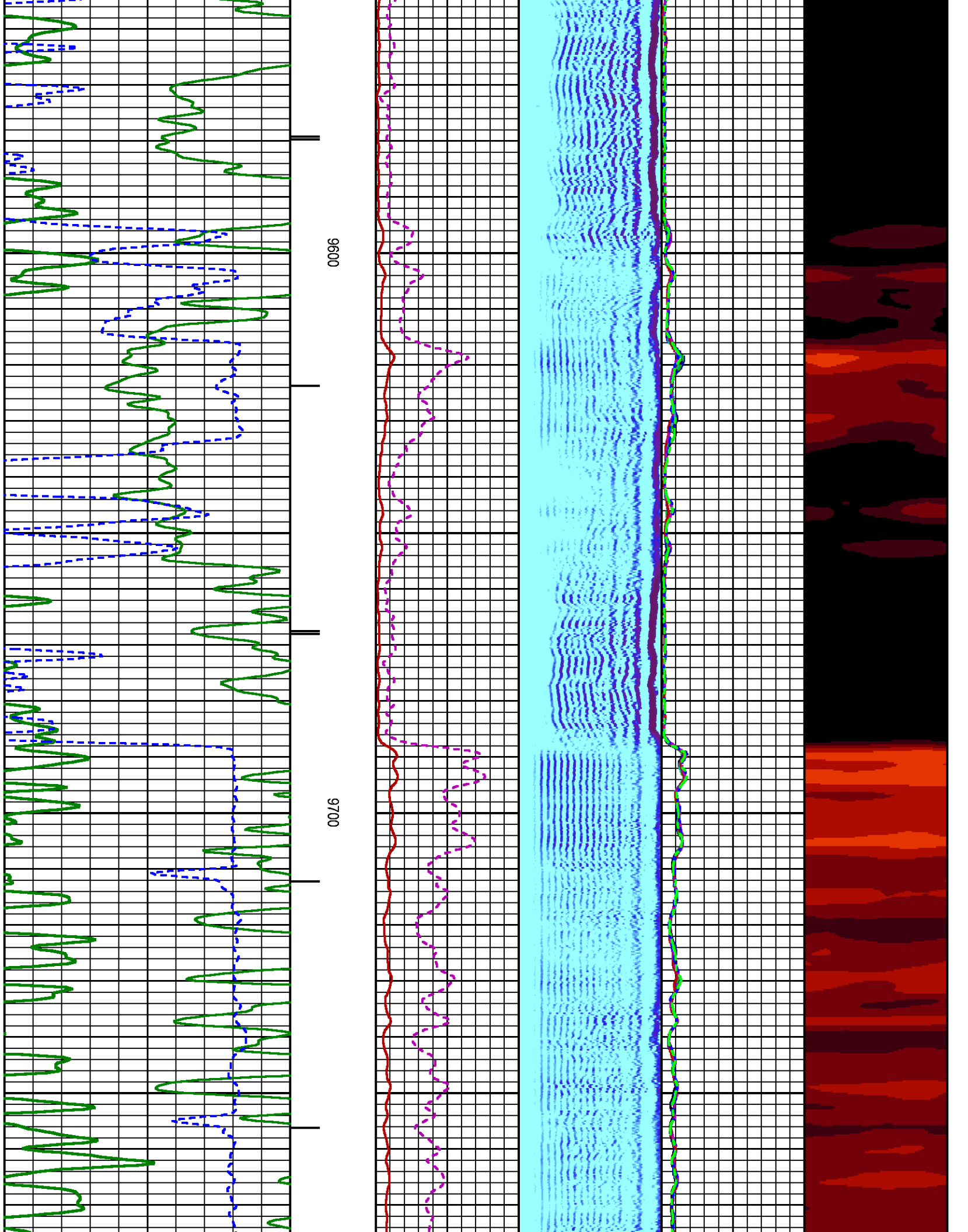


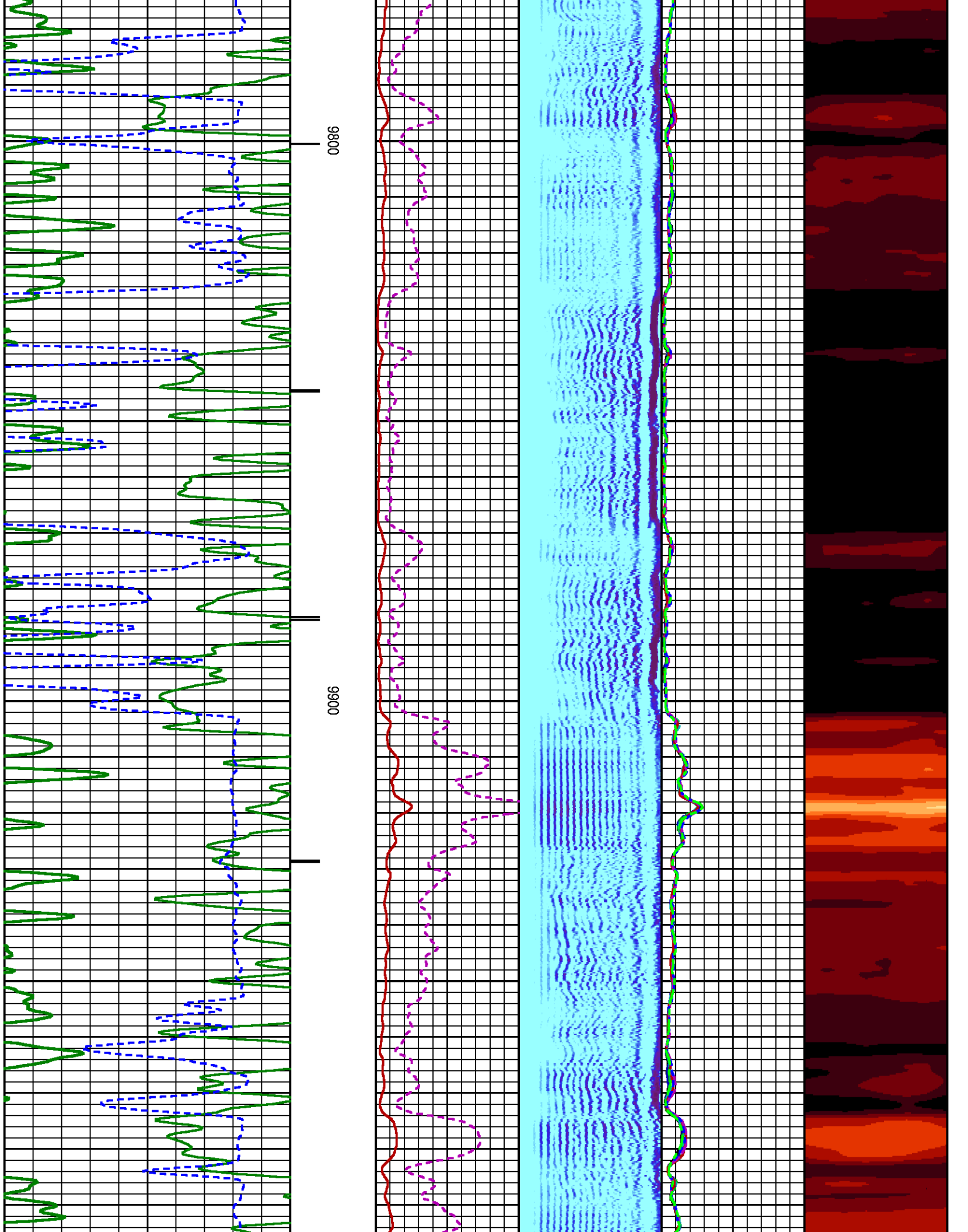


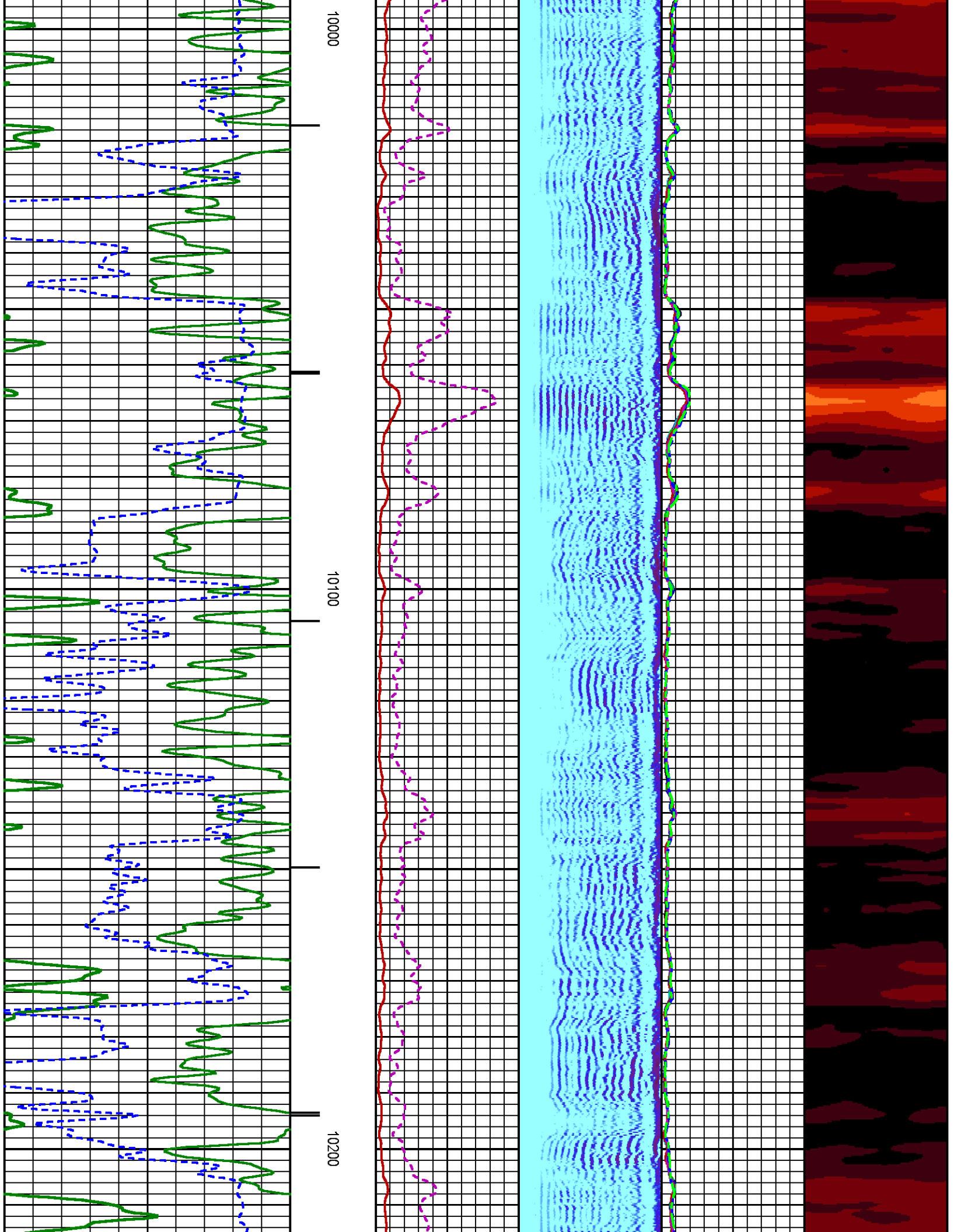




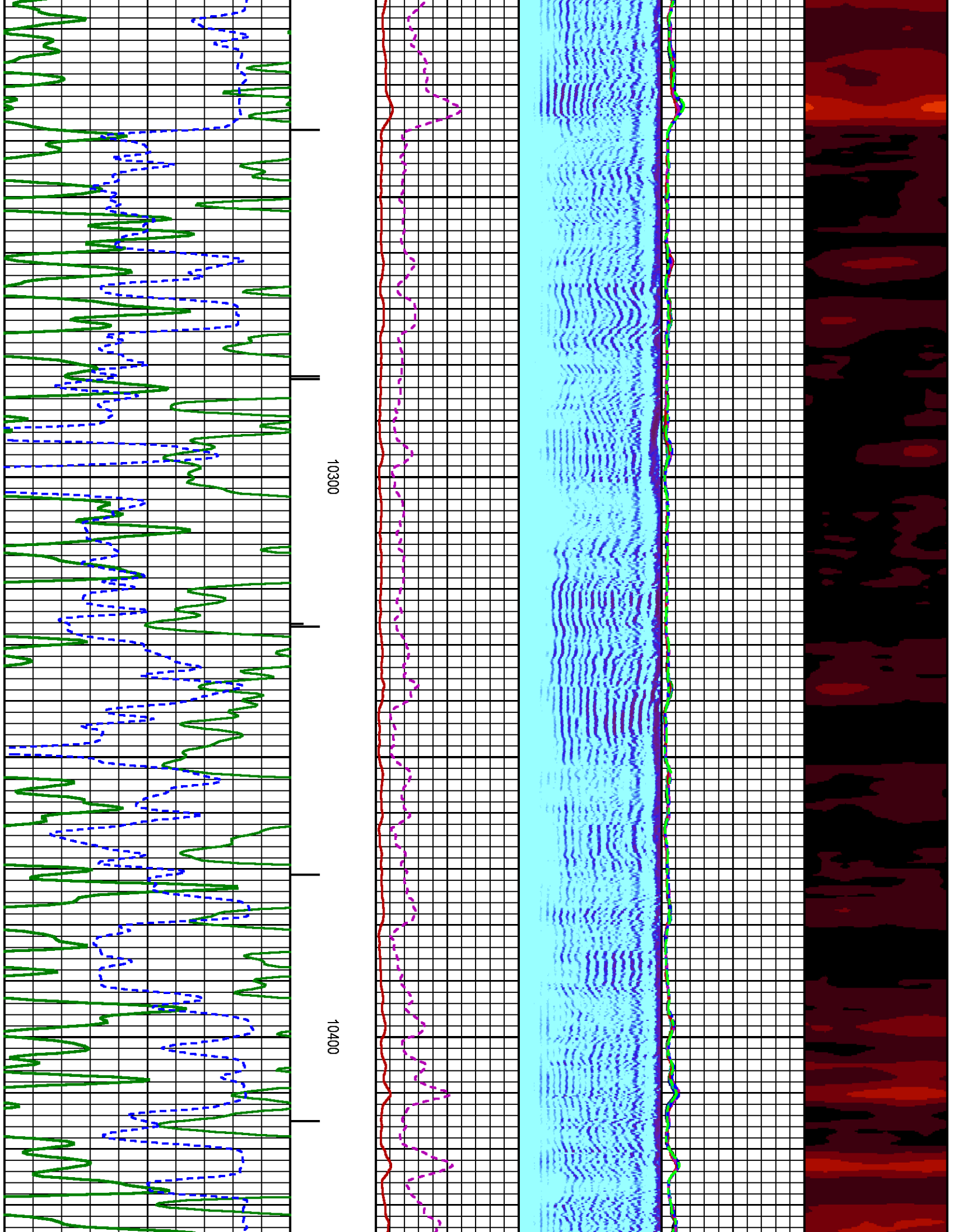


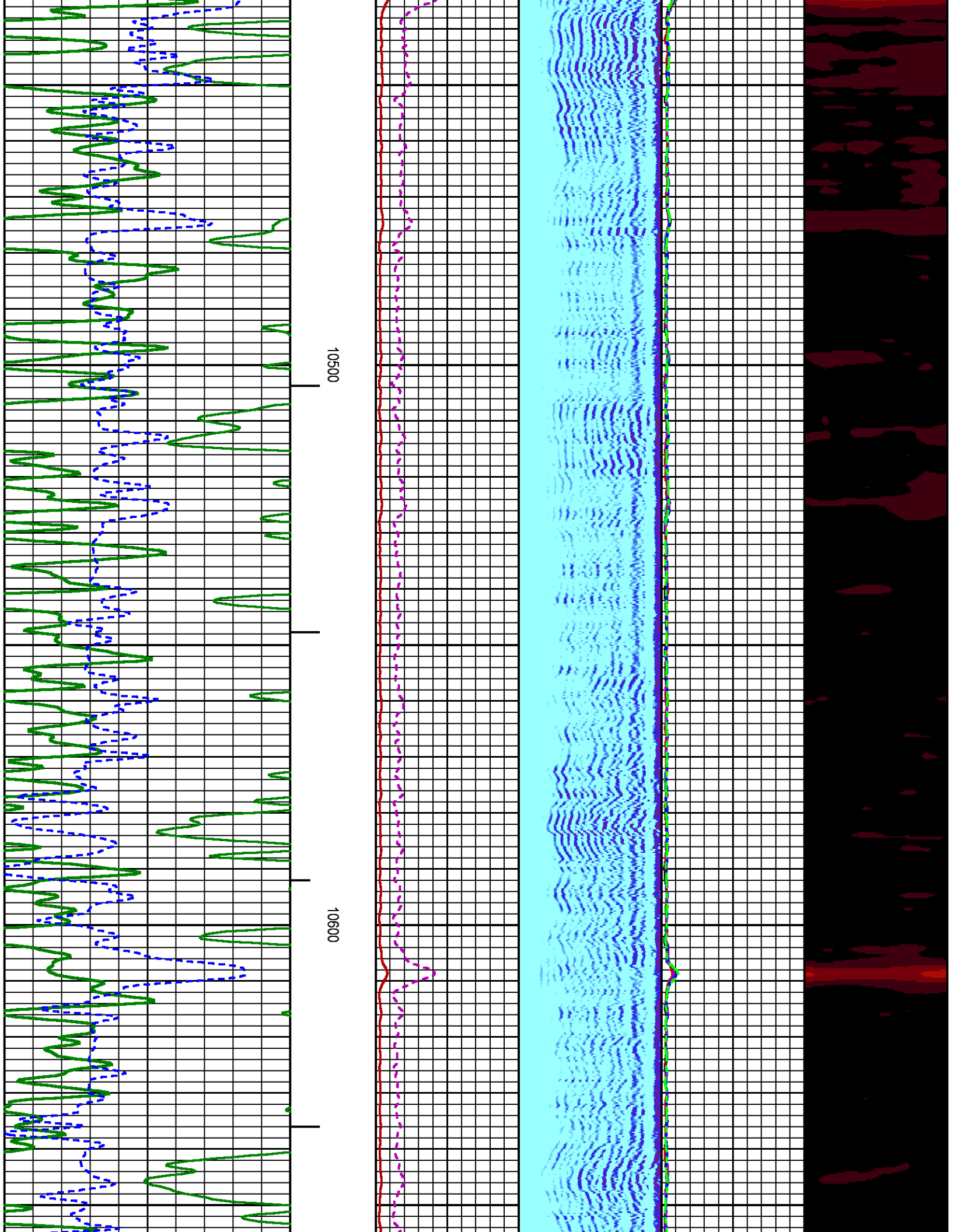


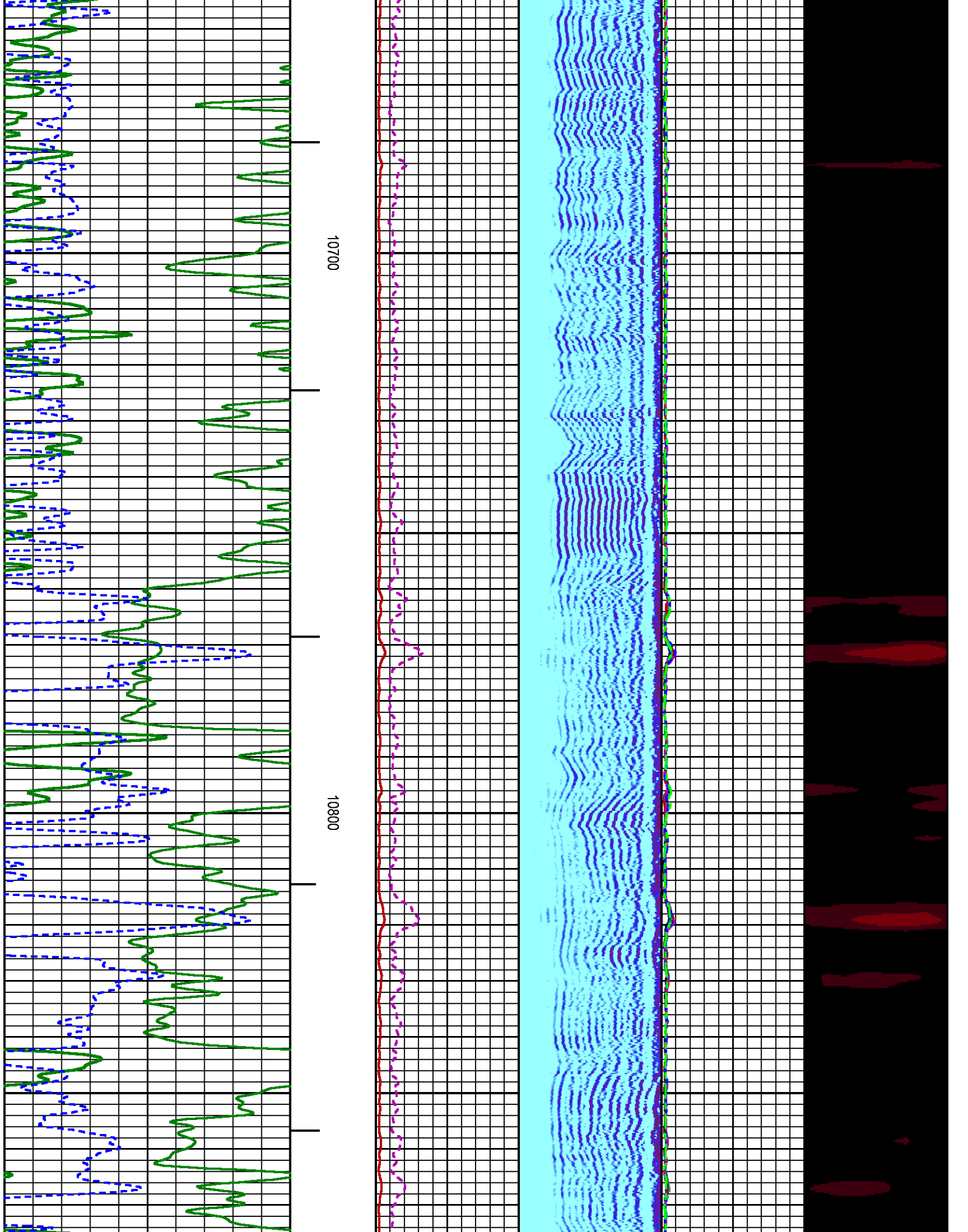


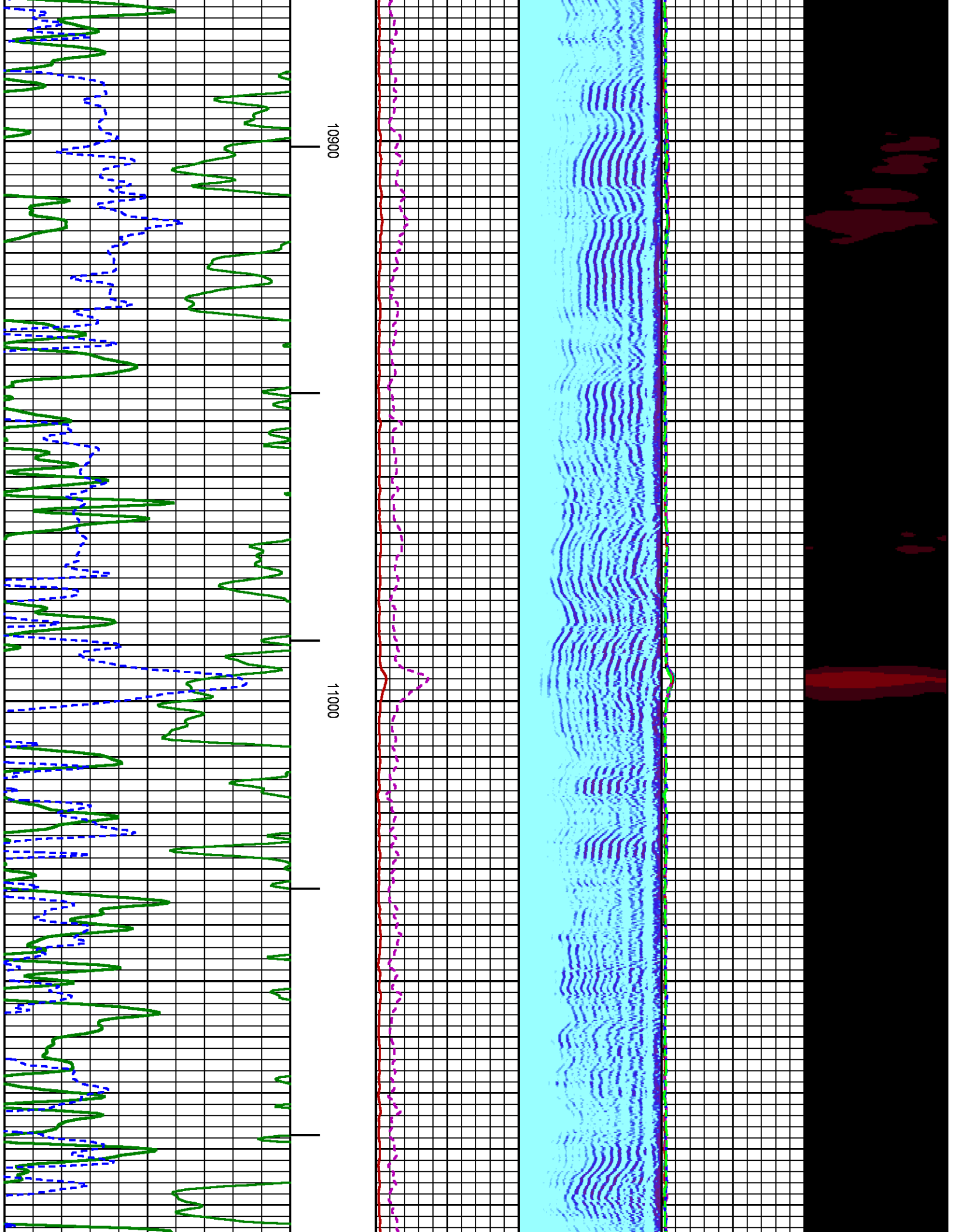


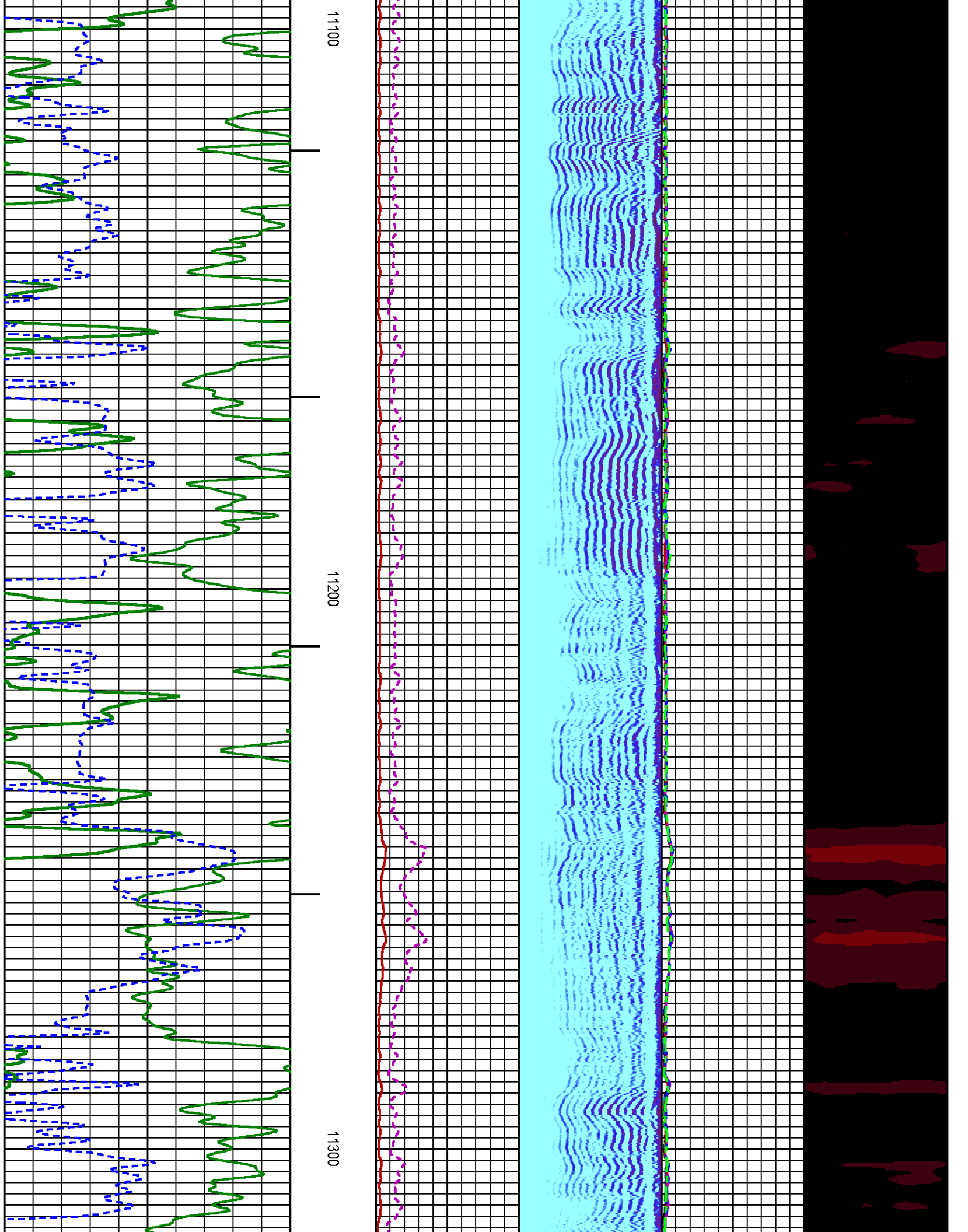




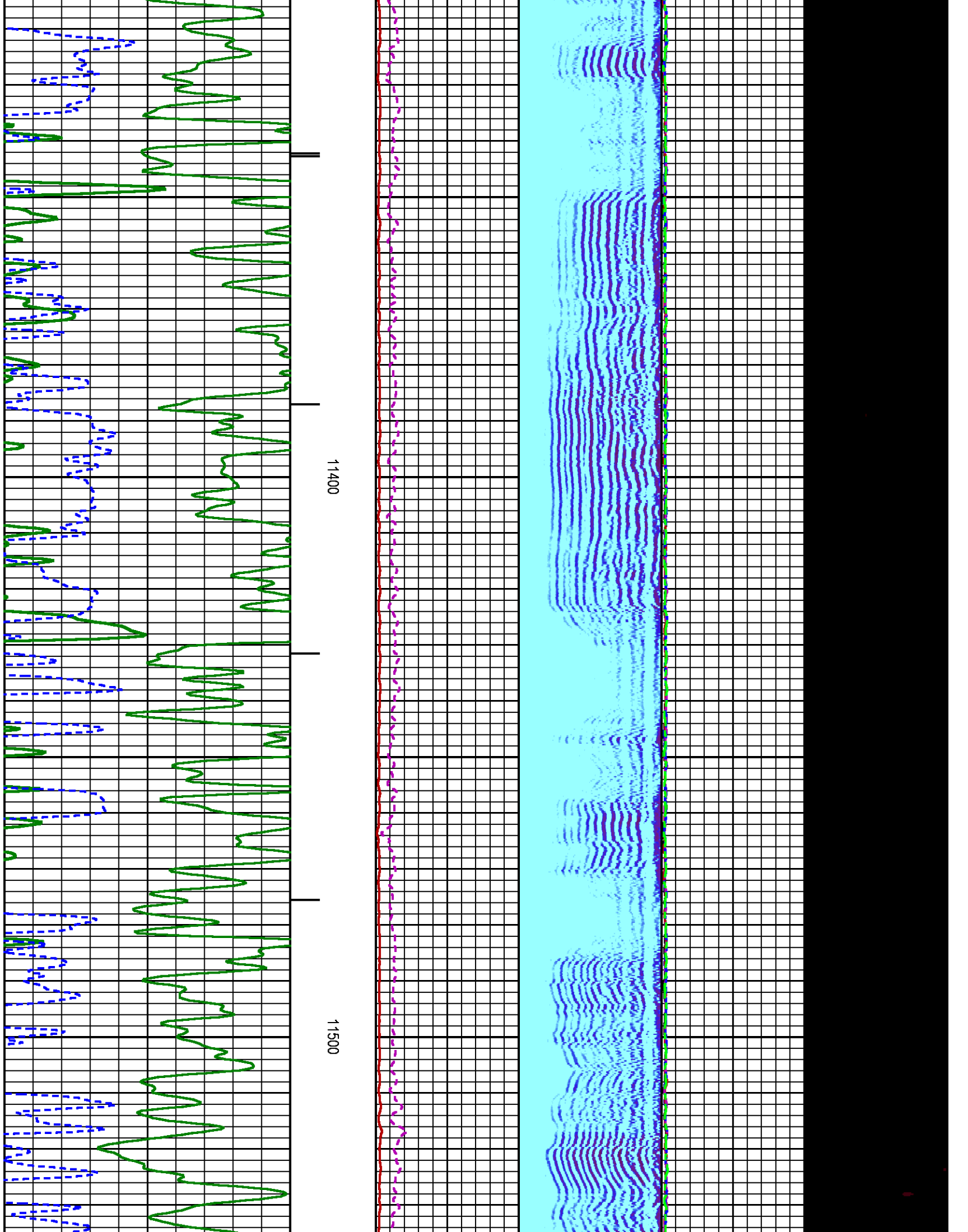


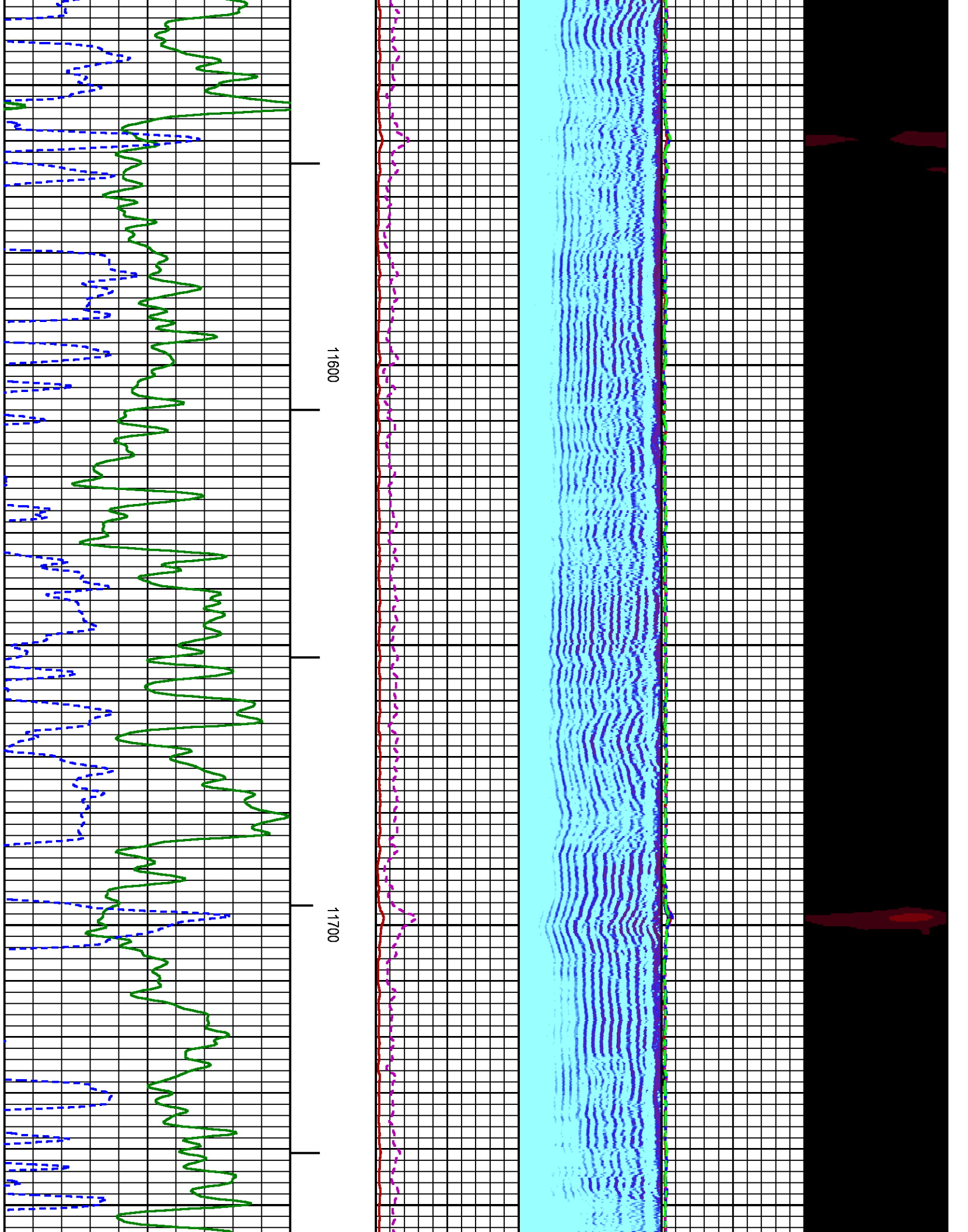


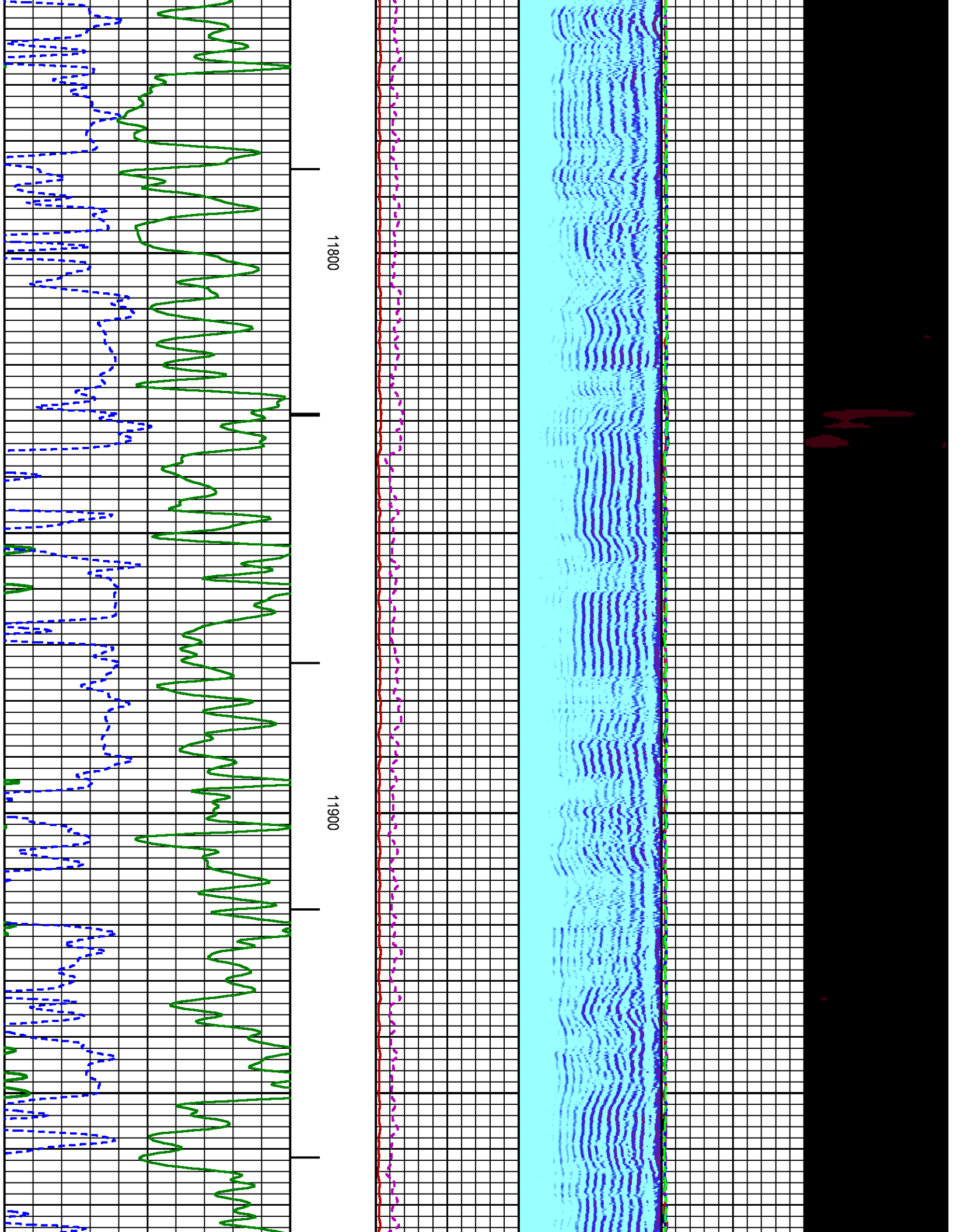


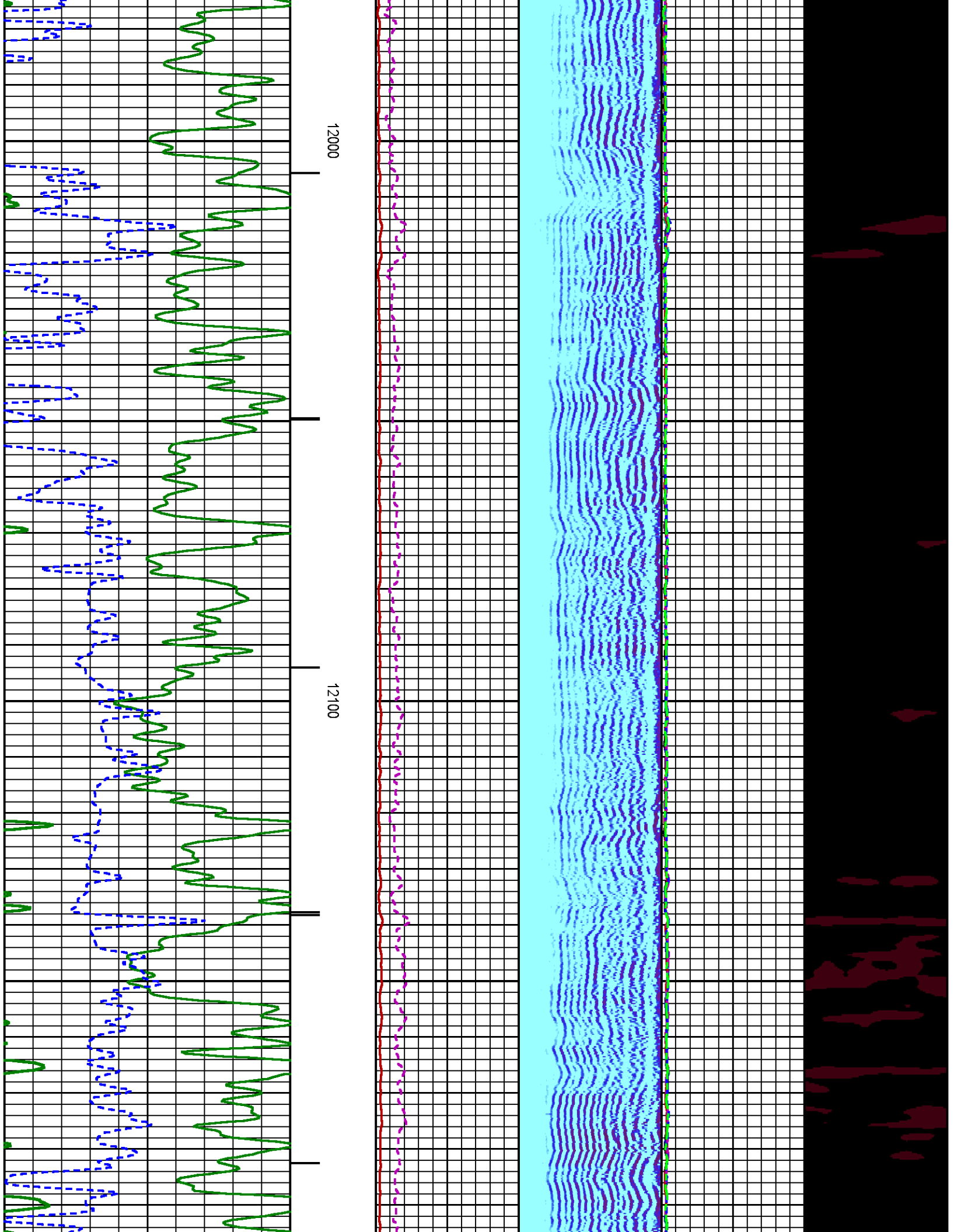


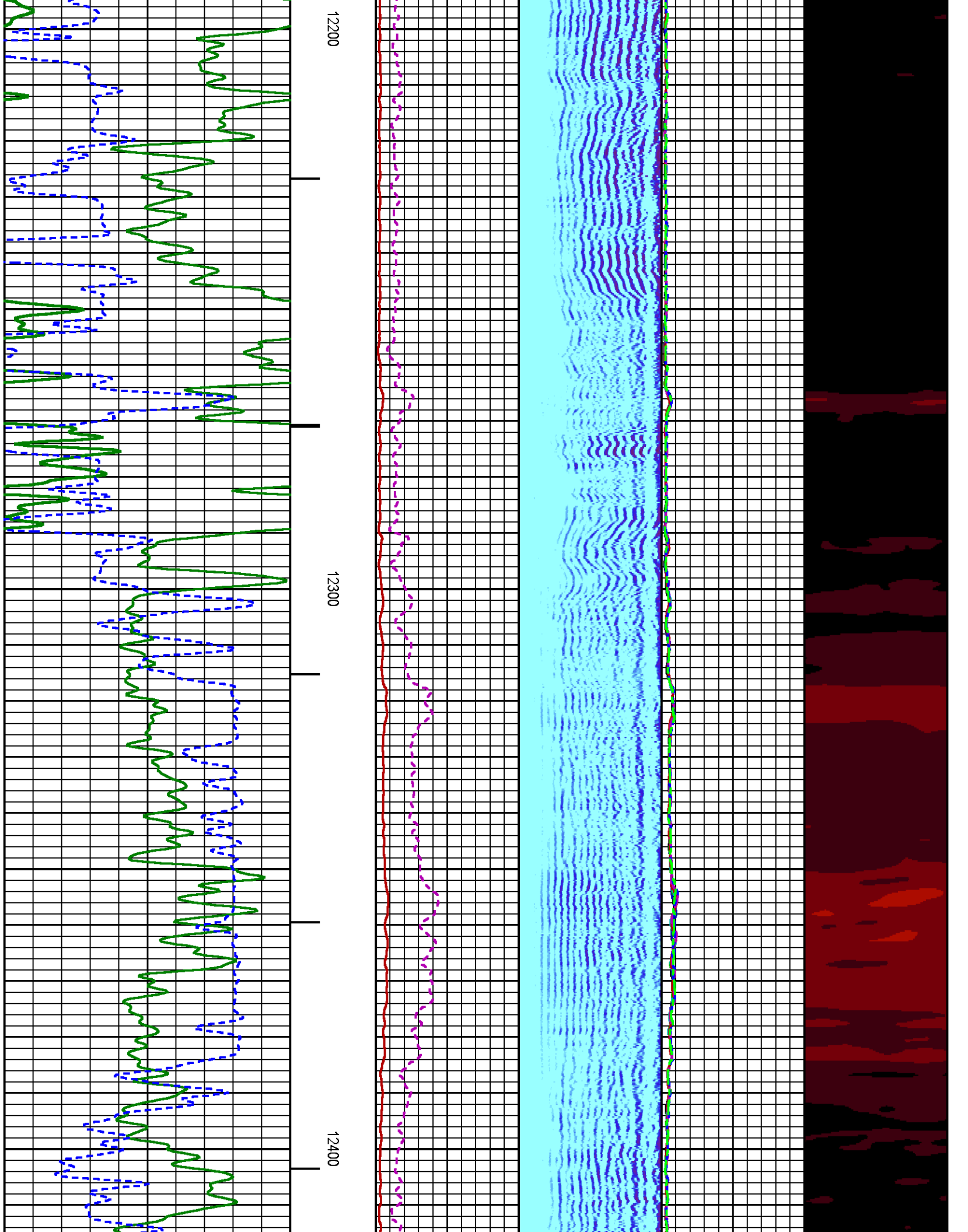




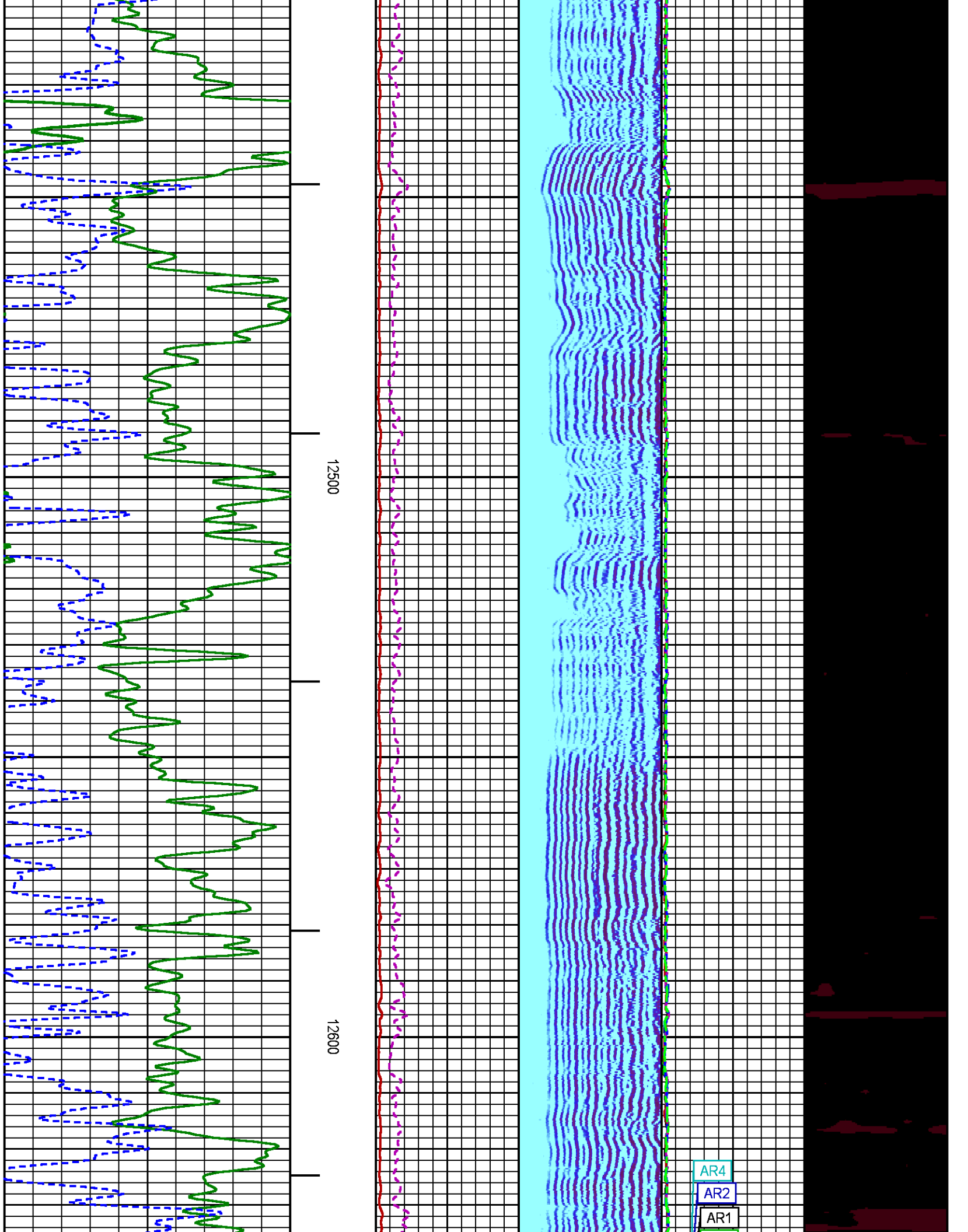


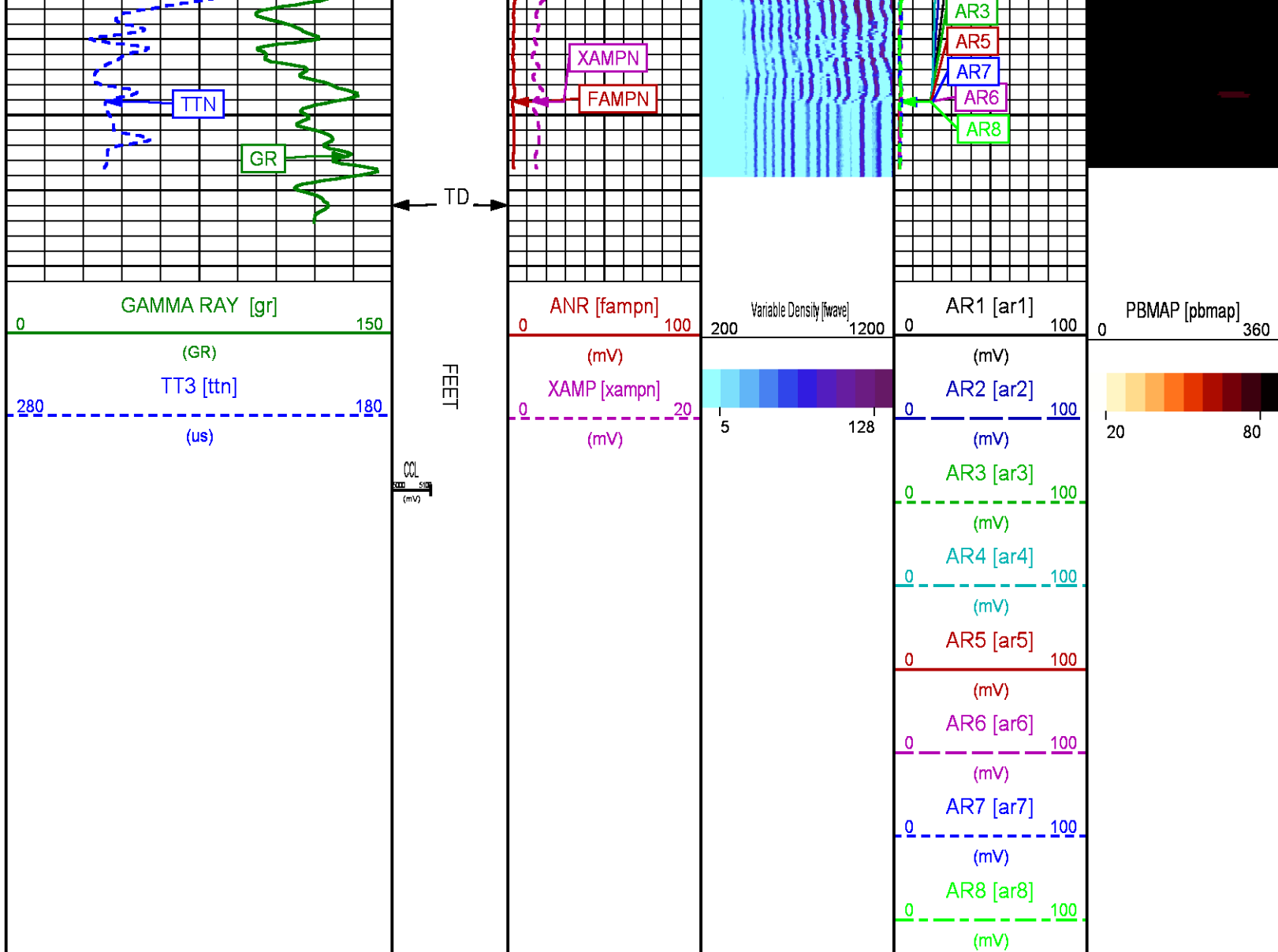












REPEAT LOG 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Fri Dec 12 12:58:55 2014

### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\092551\n012e01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 12124.500 ft BOTTOM DEPTH: 12665.000 ft

### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		TOP	12572.750
		light (2a)		12572.750	BOTTOM
TRAVEL TIME	FILTER ()	medium (1)		TOP	BOTTOM

# RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

# ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	188	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	178	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

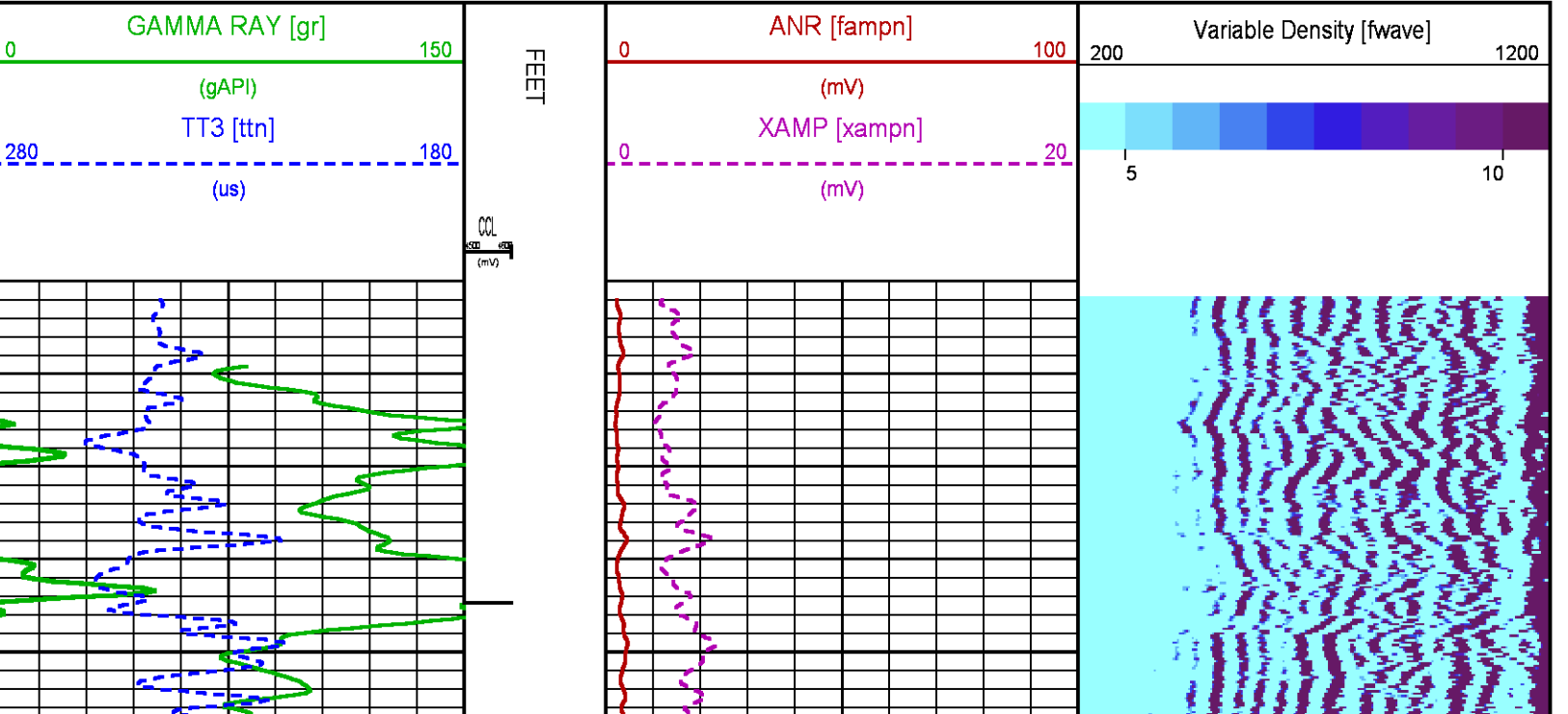
# CURVE DESCRIPTION REPORT

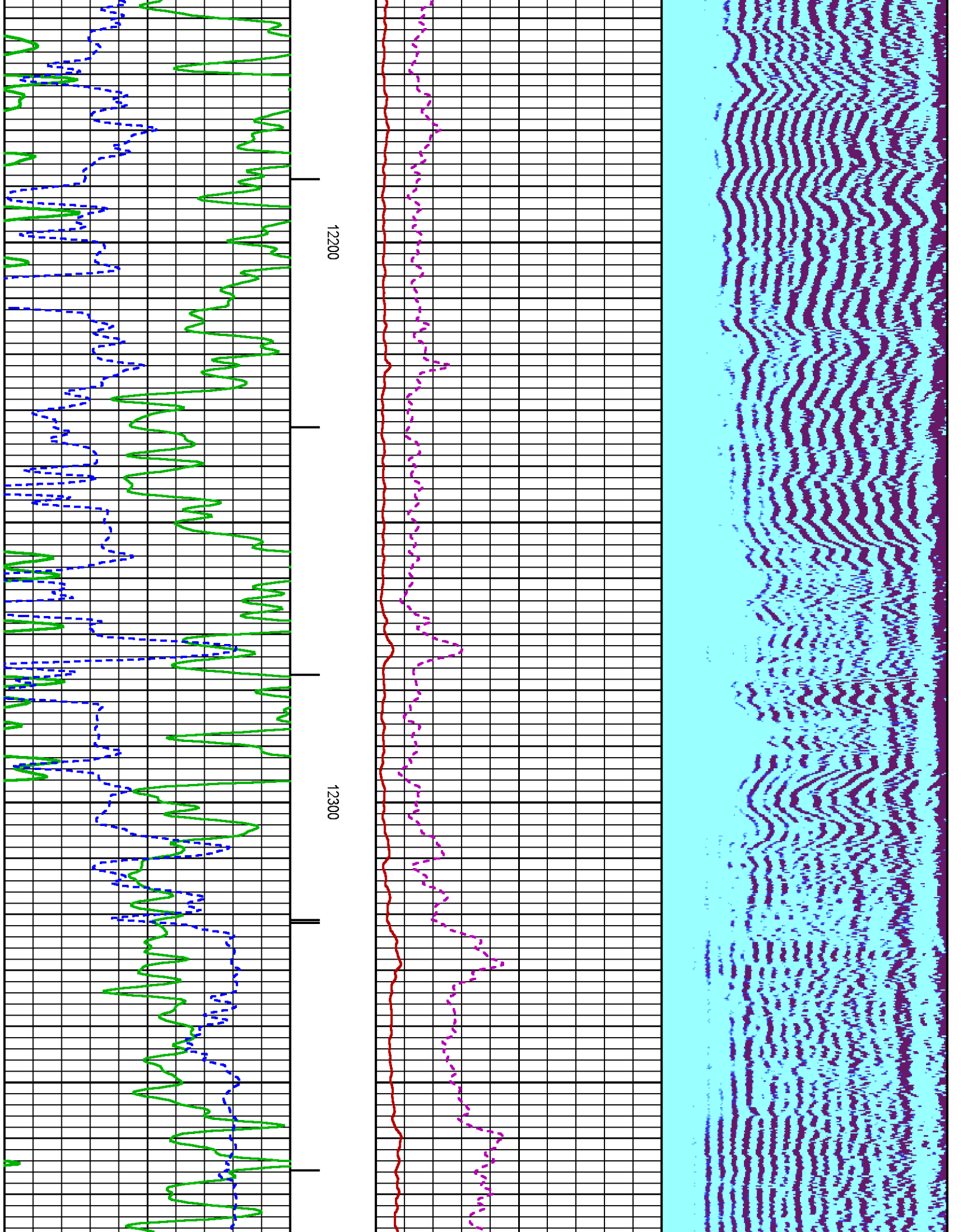
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 12 10:37:11 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 12 10:37:11 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 12 10:37:11 2014	FAR WAVE FORM
F1:GR	Dec 12 10:37:11 2014	GAMMA RAY
F1:TTN	Dec 12 10:37:11 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 12 10:37:11 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

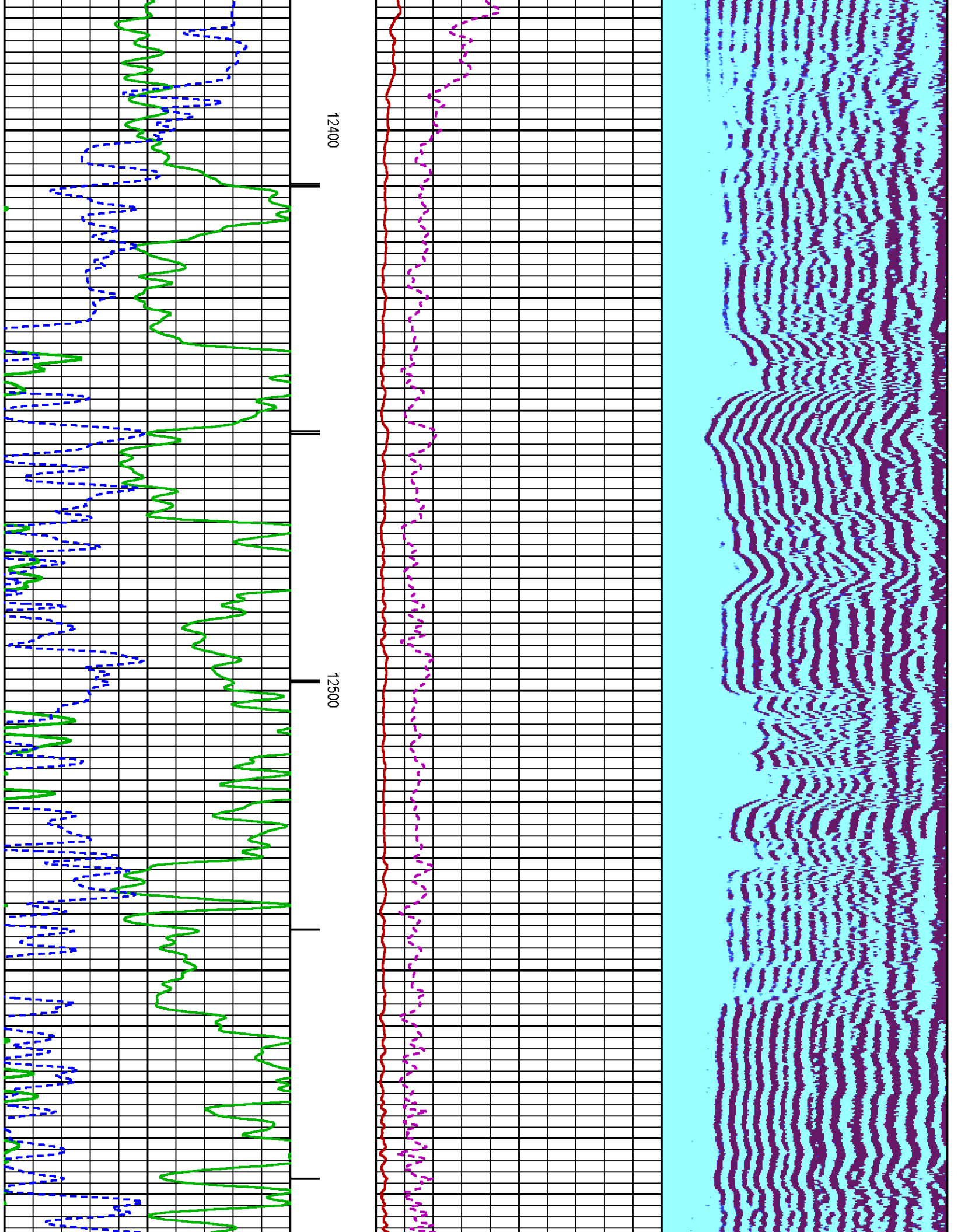
# CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

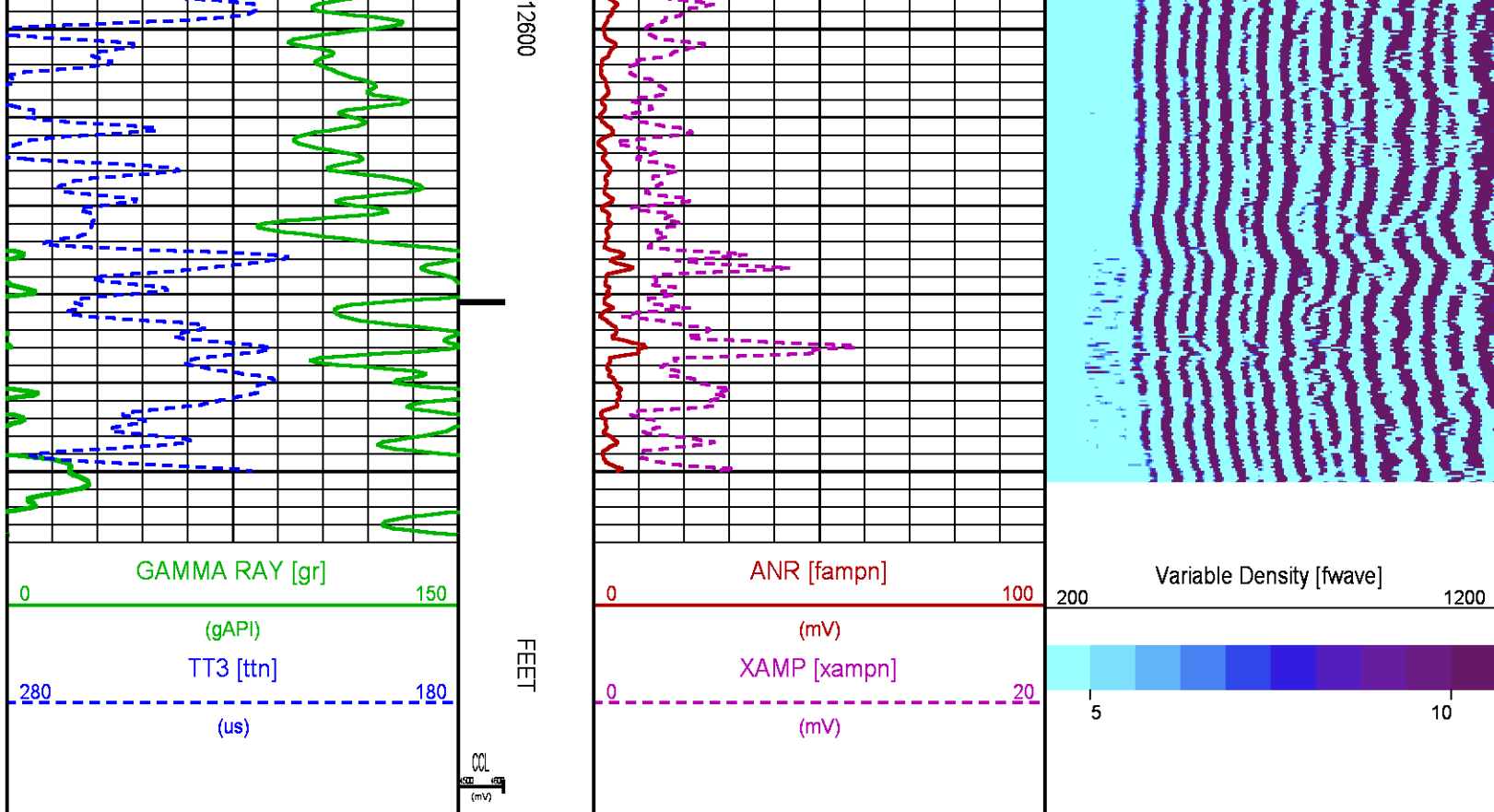
<b>Presentation</b>	: BHUGHES-06627:C:\dat1a\091655\31_CBL_REPEAT.fvpdf [5"/100" Scale]
<b>Plot Interval</b>	: 12111.8 - 12663.5 Feet
<b>Data File 1</b>	: F1 : BHUGHES-06627:C:\dat1a\092551\31CBL_REPEAT.xtf
<b>Created On</b>	: Dec 12 10:37:11 2014
<b>Company</b>	: WPX ENERGY
<b>Well</b>	: FEDERAL RGU 444-23-198
<b>Field</b>	: SULPHUR CREEK
<b>File Interval</b>	: 12110.8 - 12665 Feet
<b>OCT</b>	: n012e











## CALIBRATION / VERIFICATION SUMMARY

Source File: D:\dat1a\091655\012e.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Thu Dec 11 11:50:34 2014

UNIT #: 3885TD Z004271

	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	0.26	0.29	0.16	0.25	0.13	0.07	0.05	0.13	0.30	1.58	-0.31
AMP FLUID (mV)	85	84	83	84	84	84	85	85	84	112	83
TT (us)	219	220	219	218	217	217	217	218	220	328	220
M FACTOR	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.18	1.19	1.36	1.19

## RAL BEFORE LOG VERIFICATION SUMMARY

NOT IN DATABASE

## GR PRIMARY CALIBRATION SUMMARY

NOT IN DATABASE

## GR PRIMARY VERIFICATION SUMMARY

NOT IN DATABASE

## INSTRUMENT CONFIGURATION

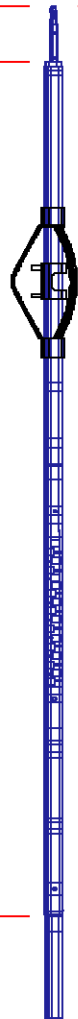
Source File: D:\dat1a\091655\012e~tdg.meta

### A3 CABLEHEAD

Diameter : 1.37"

### RADIAL BOND TOOL

Diameter : 2.75"  
Length : 11.17'  
Weight : 126 lbs  
Series : 1426XA  
Mnemonic : RAL  
Measure Point: 4.21': NEAR RCVR  
Measure Point: 3.25': FAR RCVR



21.50'

NEAR RCVR — 13.81'

FAR RCVR — 12.85'

CCL — 8.65'

RAL NEUTRON/GR/CCL/CHV DETECTOR

Diameter : 2.75"  
Length : 9.42'  
Weight : 106 lbs  
Series : 2459XA  
Mnemonic : RAL  
Measure Point: 8.46': CCL  
Measure Point: 6.60': GR  
Measure Point: 1.21': NEU




GR 6.79'

NEU 1.40'

0.00'

BULL PLUG 2 3/4

TOTAL LENGTH: 21.50'  
TOTAL WEIGHT: 250 lbs  
MAX DIAMETER: 0'4.00"

	COMPANY	WPX ENRGY		FILE NO:	CH091655
	WELL	FEDERAL RGU 31-26-198		API NO:	05103119740000
	FIELD	SULPHUR CREEK			
	COUNTY	RIO BLANCO	STATE	COLORADO	
LOCATION:		ELEVATIONS:		26 1S 98W	
SHL: 1025' FSL & 663' FEL (23 1S 98W)		KB 6592 FT		RGU 43-23-198 PA	
BHL: 287' FNL & 1863' FEL (26 1S 98W)		DF		AZTEC 1000	
SEC 26 TWP 1S RGE 98W		GL 6567 FT			
		DATE		12-Dec-2014	