



FILE NO: CH095499	COMPANY WPX ENERGY
API NO: 05103121360000	WELL FEDERAL RGU 44-23-198
	FIELD SULPHUR CREEK
	COUNTY RIO BLANCO
	STATE COLORADO

Ver. 4.01 23 1S 98W RGU 43-23-198 AZTEC 1000	LOCATION: SHL: 1048' FSL & 623' FEL BHL: 1209' FSL & 632' FEL SEC 23 TWP 1S RGE 98W	OTHER SERVICES RPM JB/GR 3.700
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL K.B.	ELEVATION 25 FT ABOVE P.D.	ELEVATIONS: KB 6592 FT DF GL 6567 FT
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DATE	25-Mar-2015
RUN	1
TRIP	1
SERVICE ORDER	US095499
DEPTH DRILLER	12581 FT
DEPTH LOGGER	12540 FT
BOTTOM LOGGED INTERVAL	12530 FT
TOP LOGGED INTERVAL	25 FT
TIME STARTED	8:00
TIME FINISHED	12:00
OPERATOR RIG TIME	4 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	58 FT
LOGGED CEMENT TOP	SEE LOG
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MN
MAX. RECORDED TEMP.	281 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	P. EDWARDS
WITNESSED BY	C. STEWART

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	0 FT	80 FT
14.75 IN	80 FT	3894 FT
7.875 IN	3894 FT	12645 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
18 IN			0 FT	80 FT
9.625 IN			0 FT	3894 FT
4.5 IN		P-110	0 FT	12645 FT

### 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 frac tree at the client's request.

Frac tree 9'

The amount of linear shift is -7 feet.

Logged with zero PSI at wellhead.

BHT = 281 deg F

SJ = 7265' - 7288'

EQUIPMENT DATA					
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10154957	CENTRALIZED
1	1	GR/CCL	2459XA	10218503	CENTRALIZED

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: Thu Mar 26 12:59:18 2015

PARAMETER AND FILTER SUMMARY REPORT					
FILE: C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\012e02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 30.500 ft BOTTOM DEPTH: 12556.979 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*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	167	us	TOP	7628.250
		165	us	7628.250	7630.750
		160	us	7630.750	BOTTOM
	TT WINDOW LENGTH	500	us	TOP	BOTTOM
RAL CASING PARAMETERS	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
	PPT NEAR	200.391	us	"	"
	TOOL DELAY (strn*)	-70	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	Mar 25 09:26:29 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 25 09:26:29 2015	FAR WAVE FORM
F1:GR	Mar 25 09:26:29 2015	GAMMA RAY
F1:TTN	Mar 25 09:26:29 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET					
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
: BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\WPX\_CBL\_PRIMARY\_PRESENTATION.fvpdf [5"/100" Scale]

Plot Interval
: 0 - 12545 Feet

Data File 1
: F1 : BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\CBL44MAIN.xtf

Created On
: Mar 25 09:26:29 2015

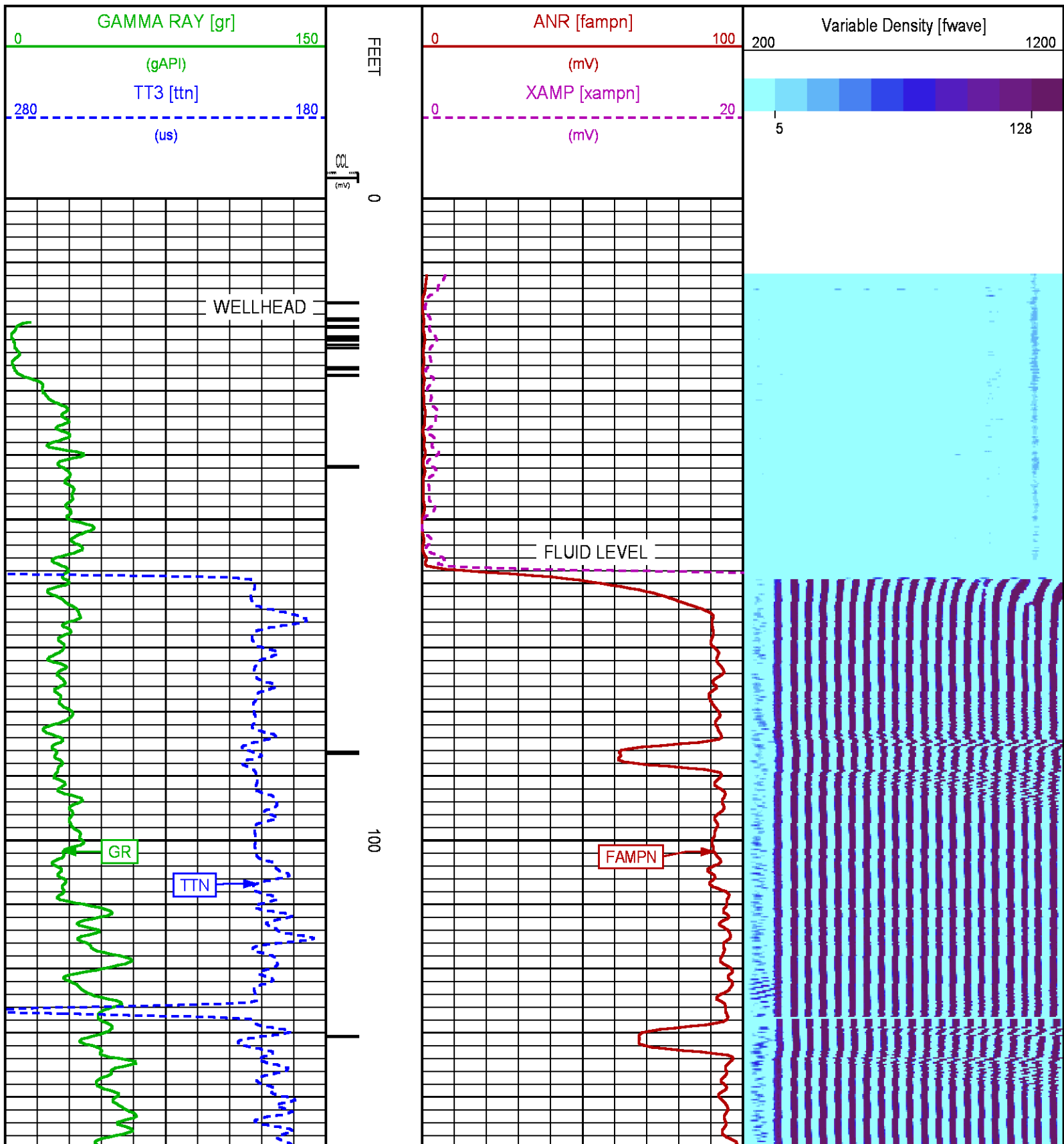
Company
: WPX ENERGY

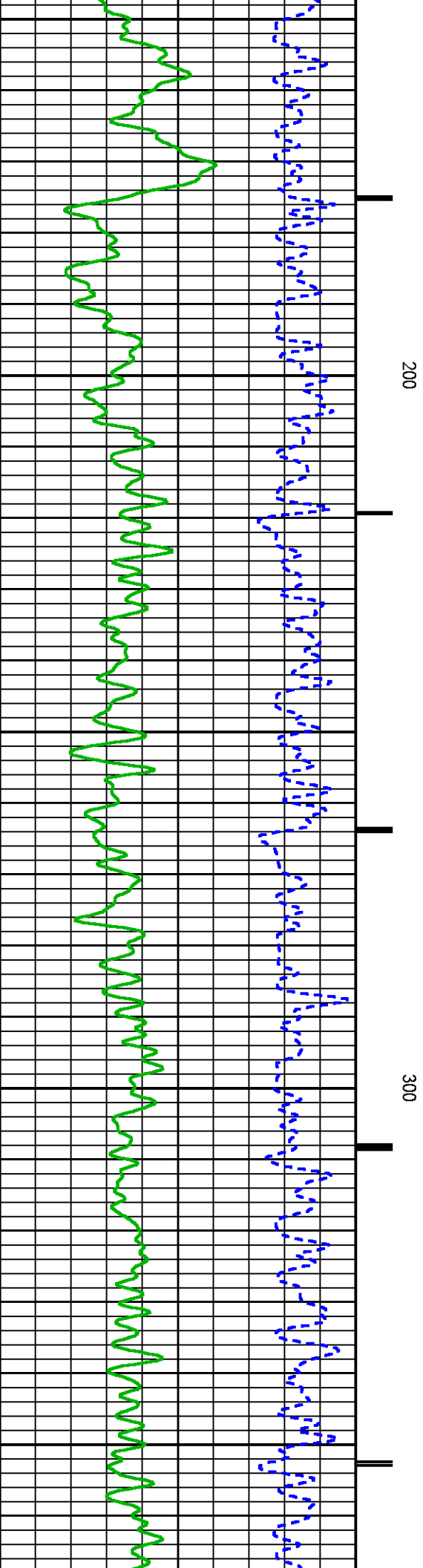
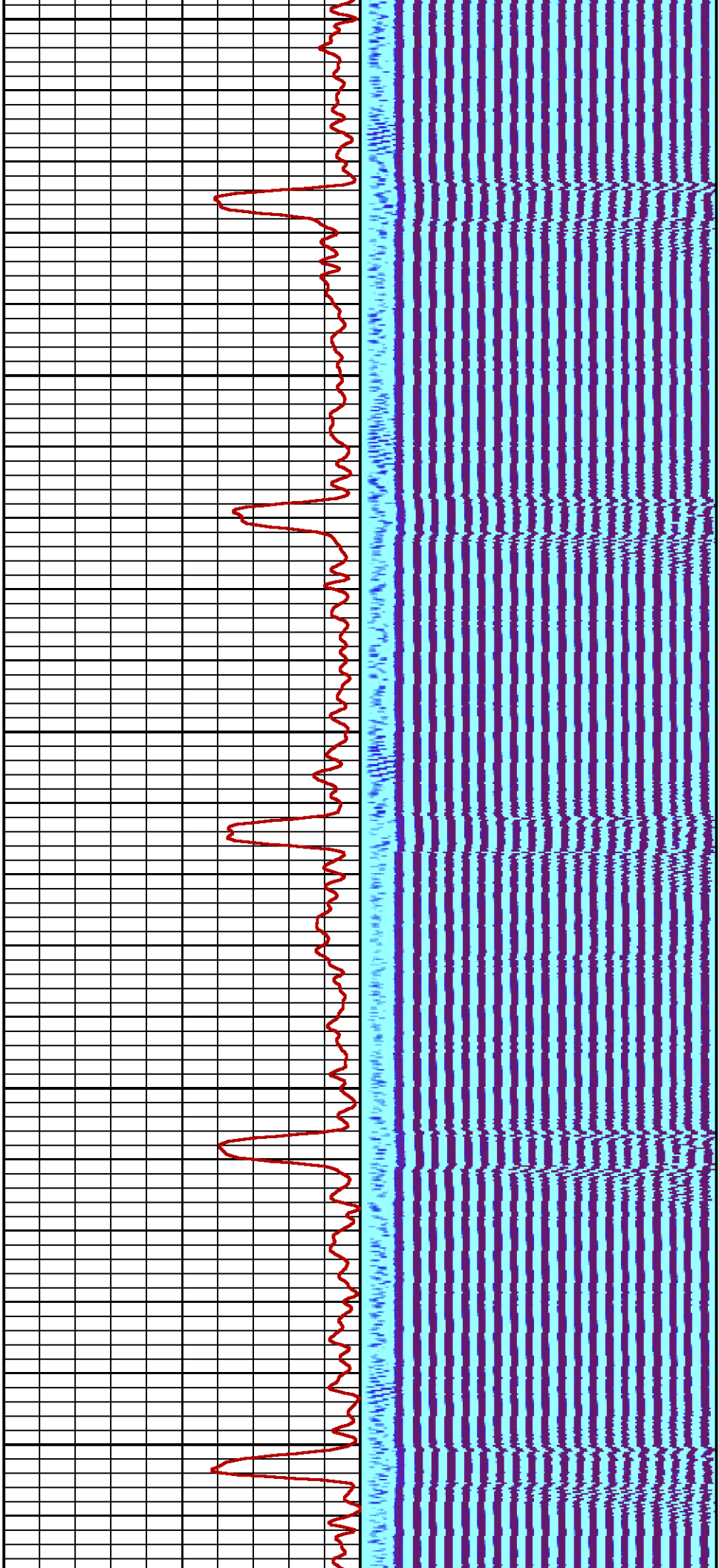
Well
: FEDERAL RGU 44-23-198

Field
: SULPHUR CREEK

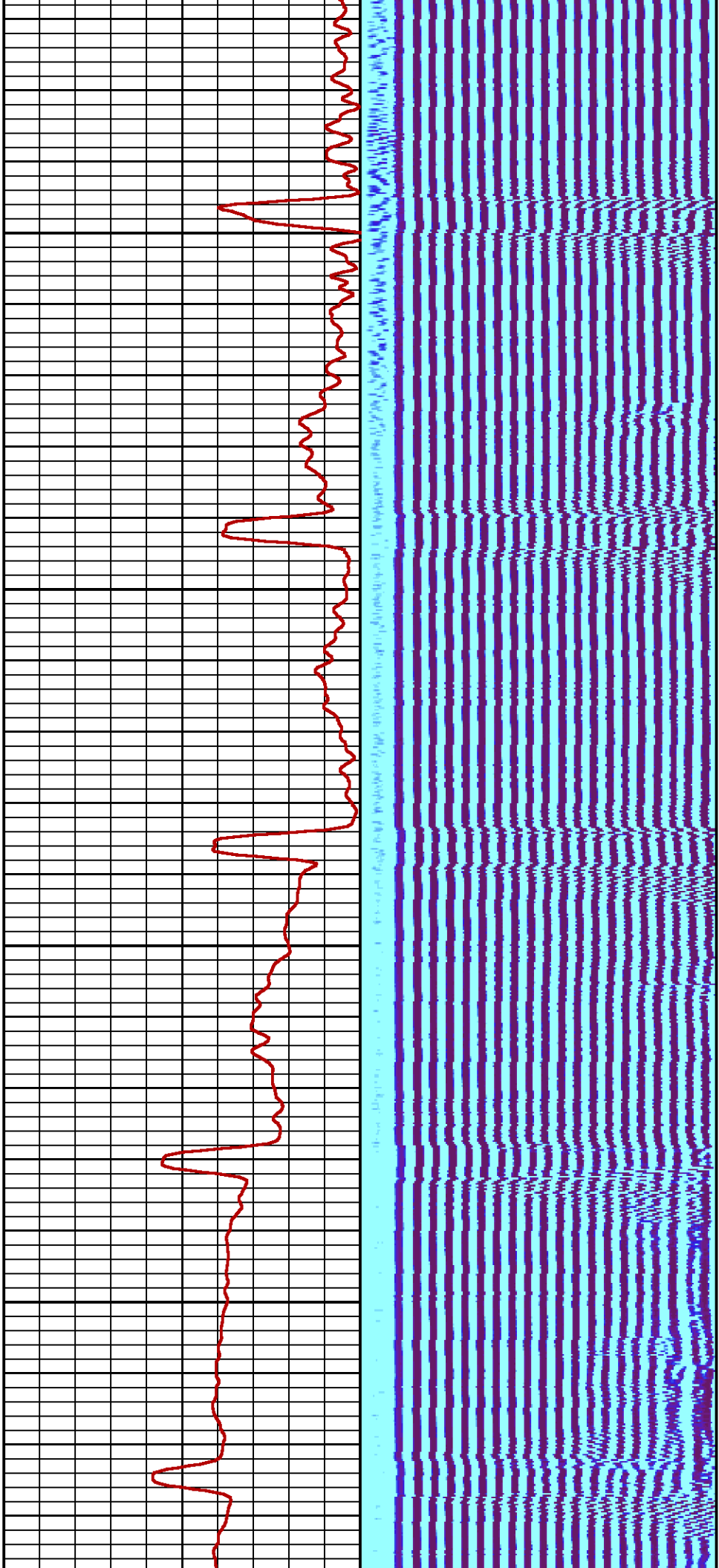
File Interval
: 10.75 - 12555.8 Feet

OCT
: n012e



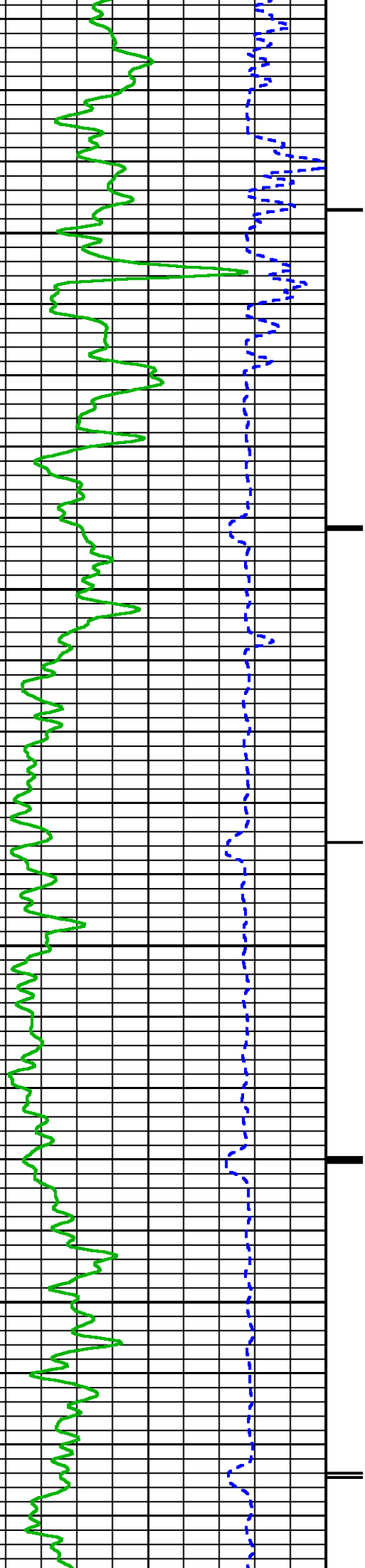


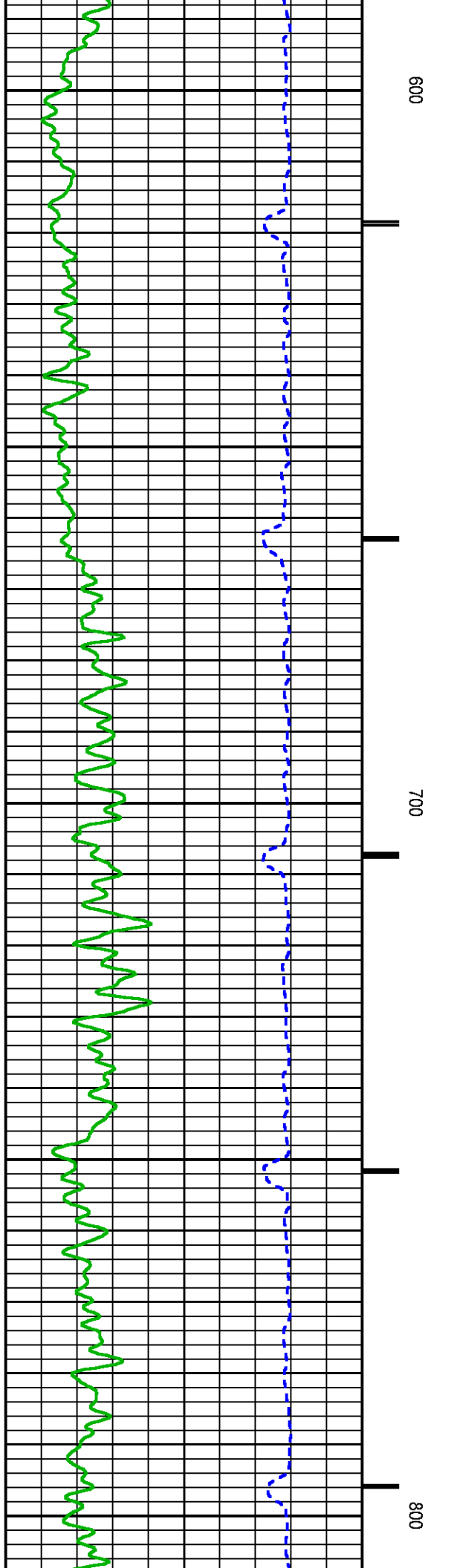
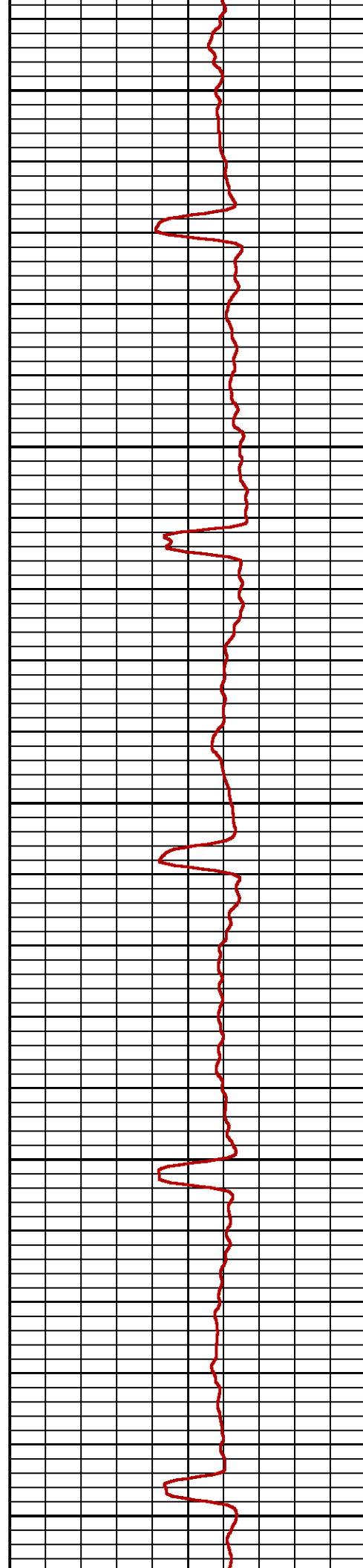
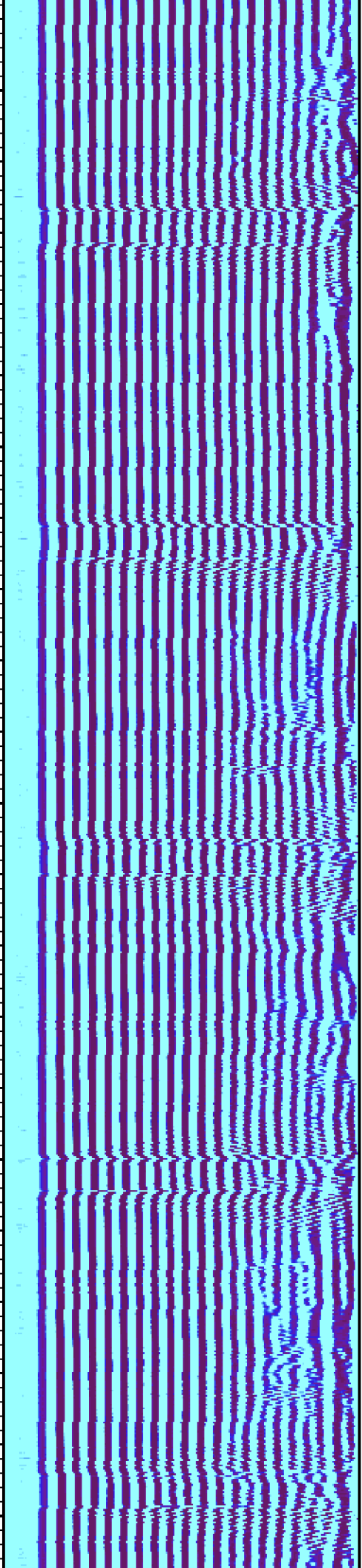


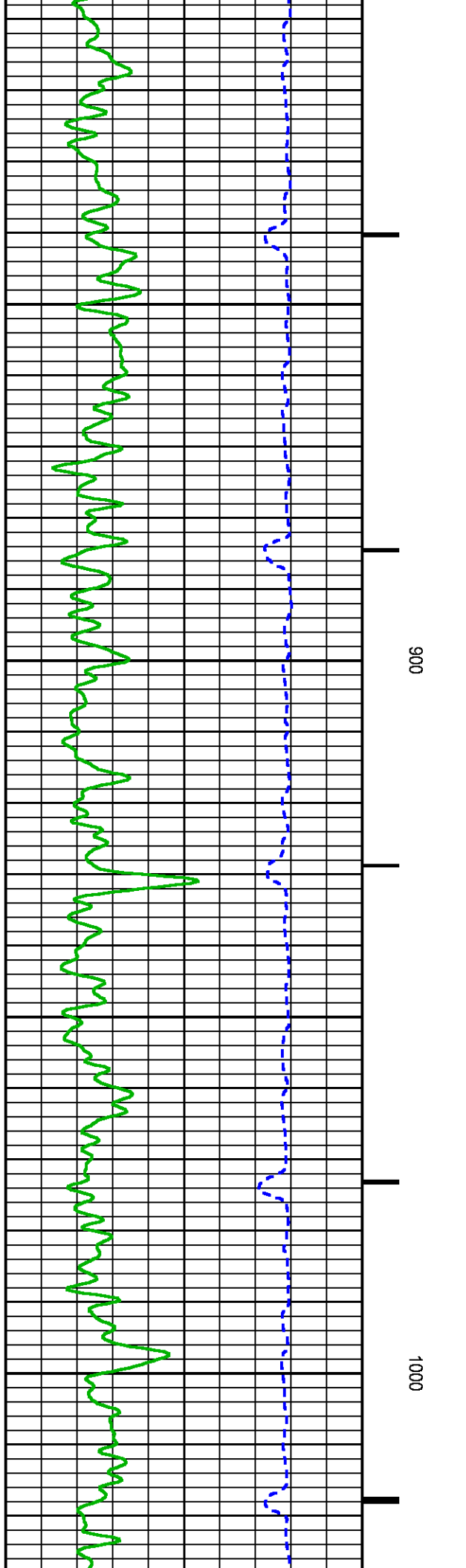
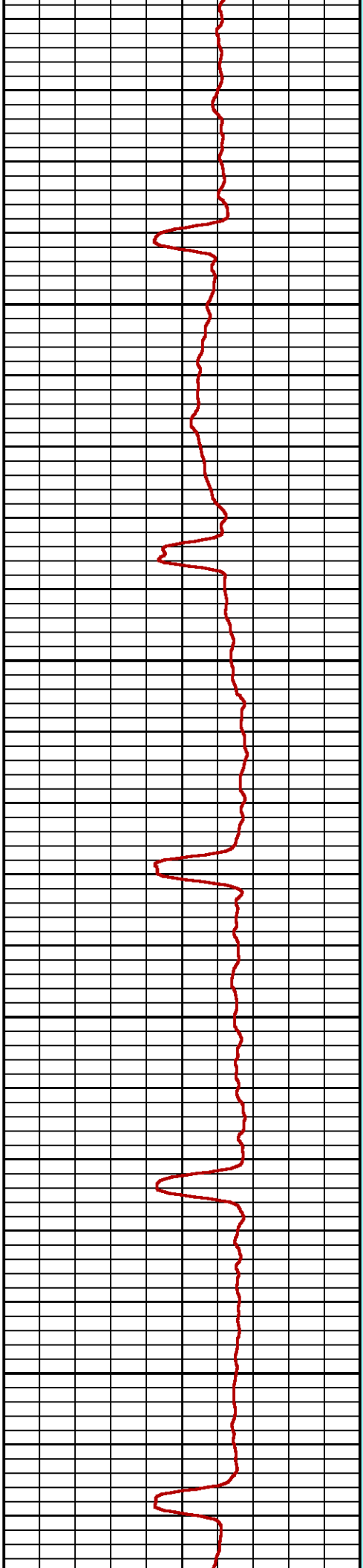
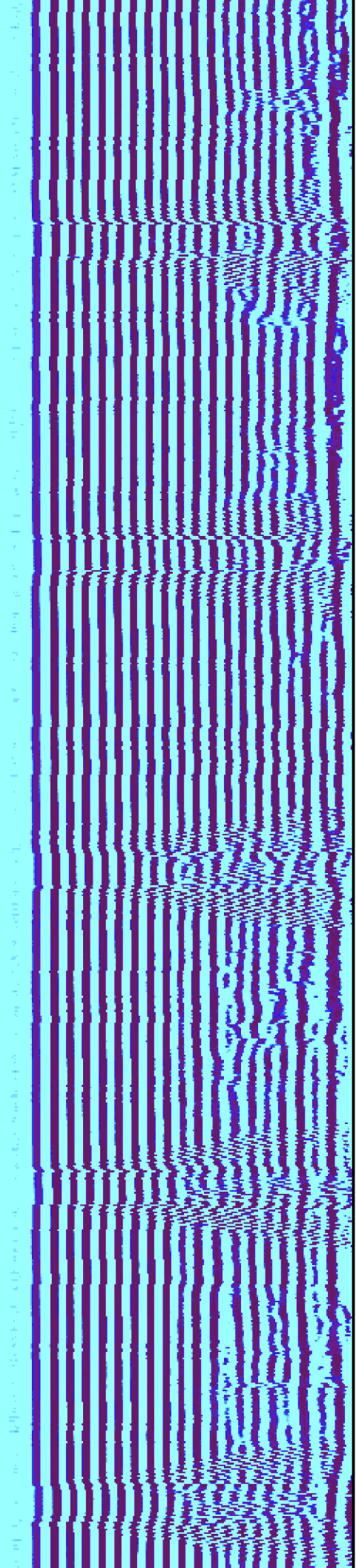


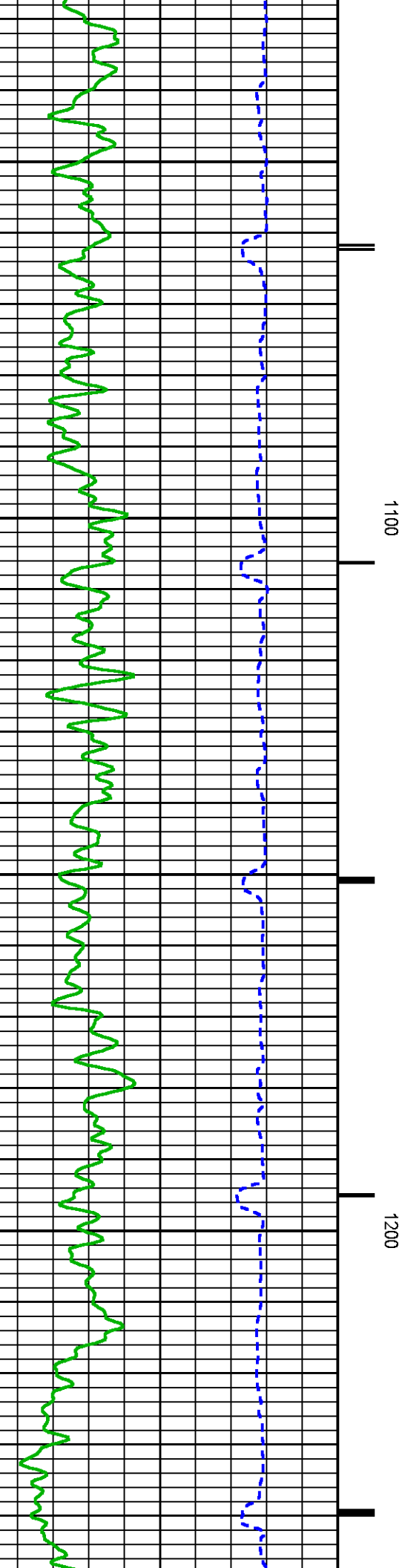
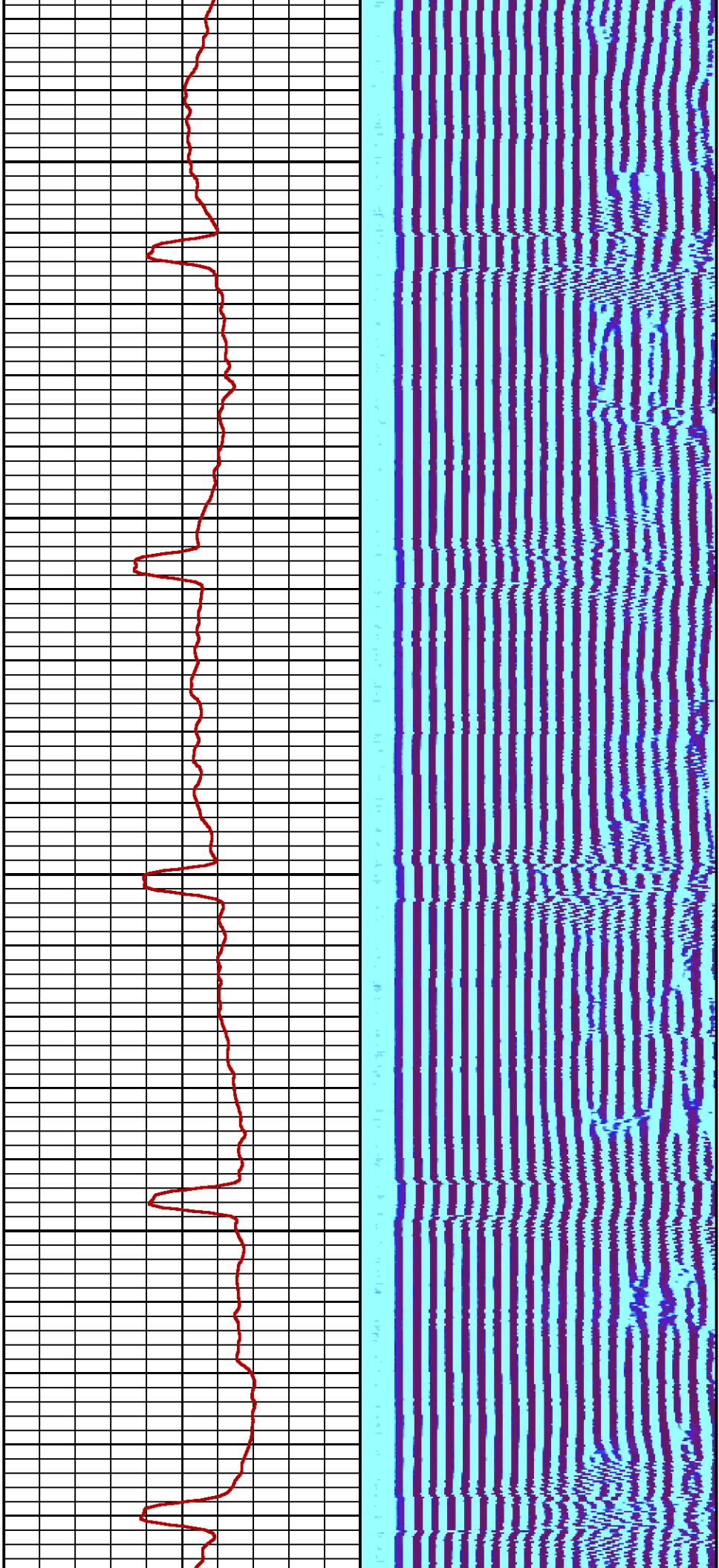
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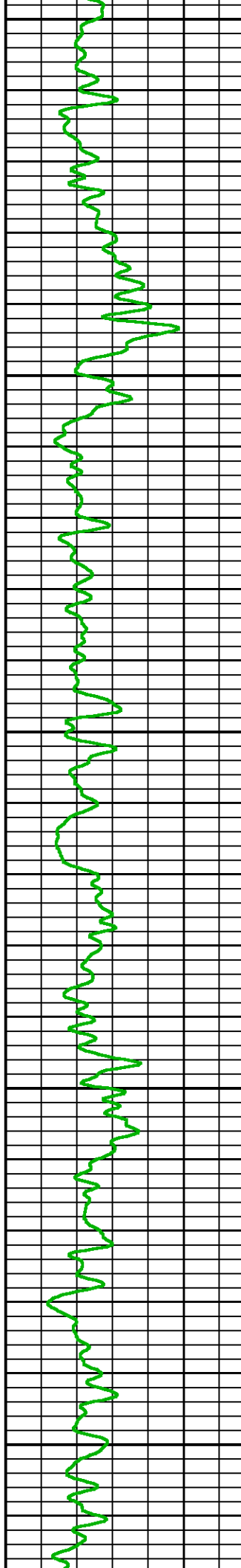
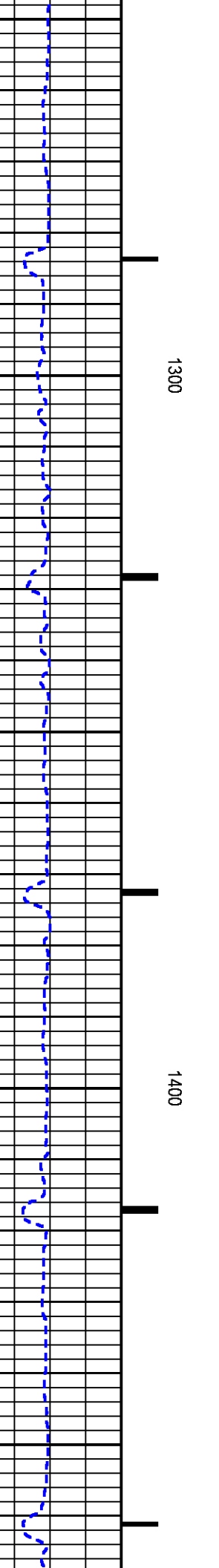
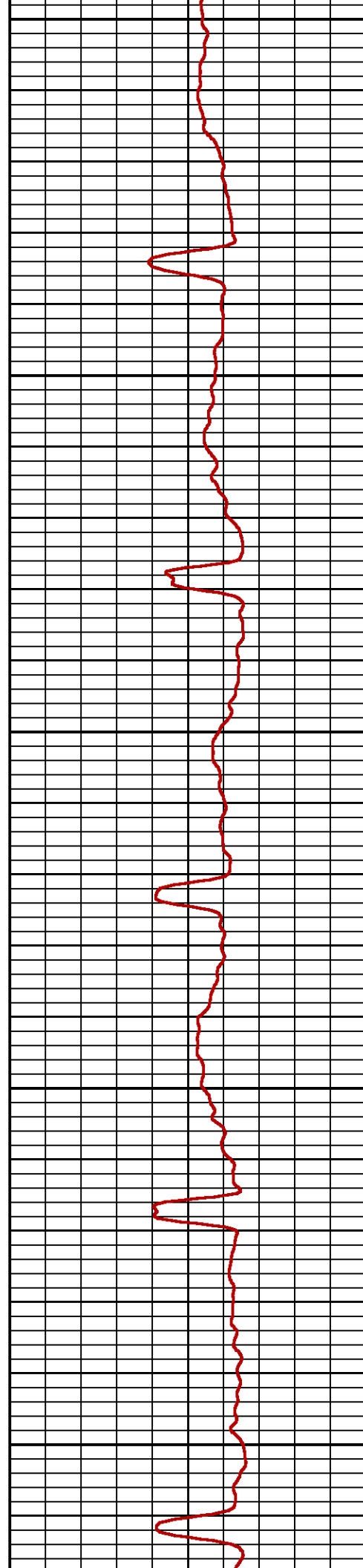
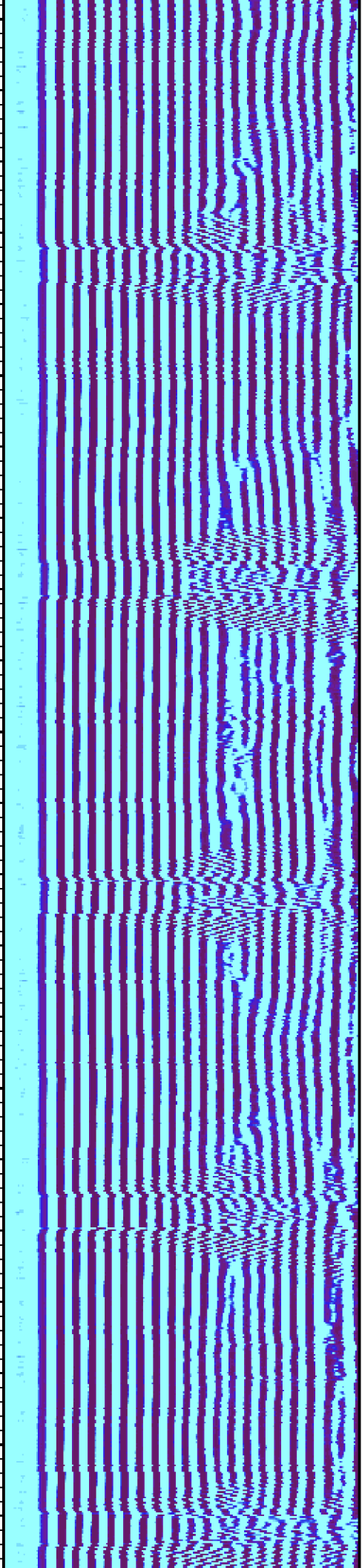
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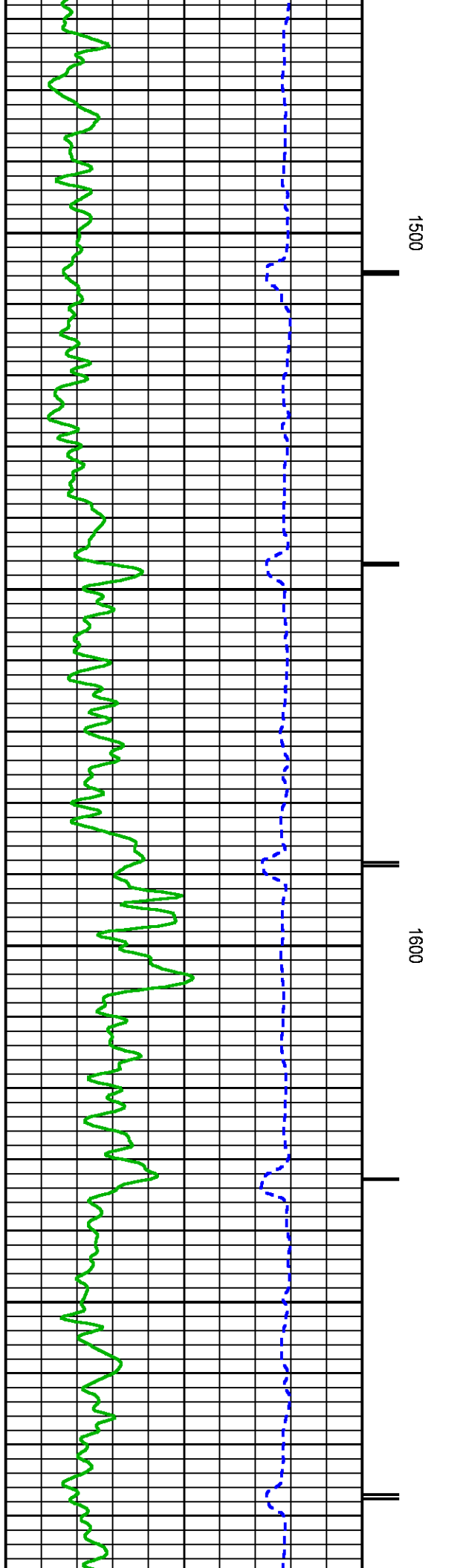
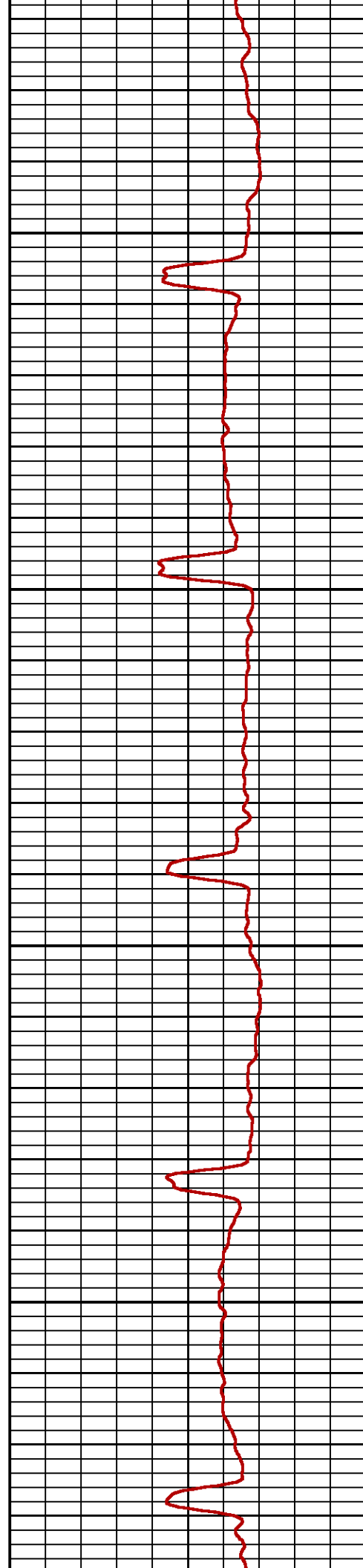
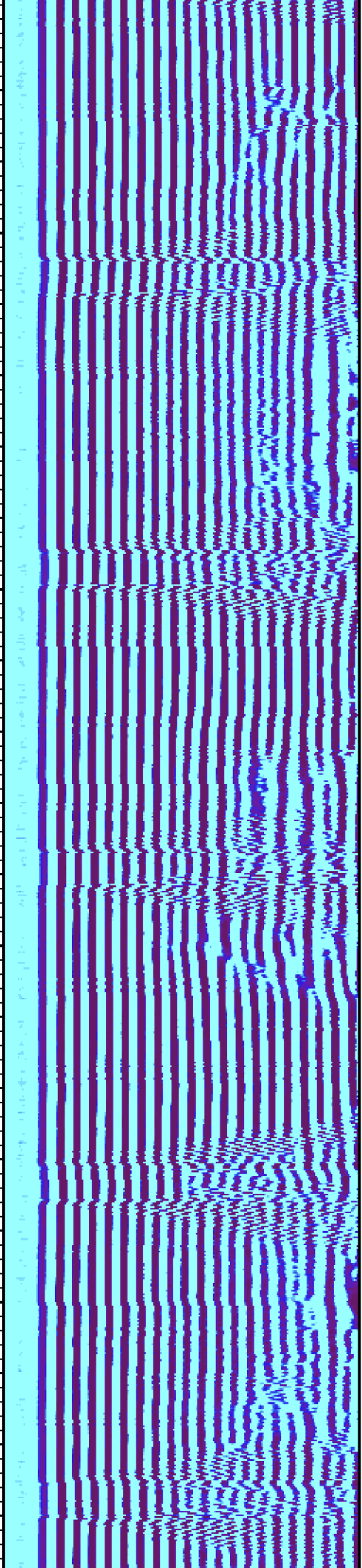


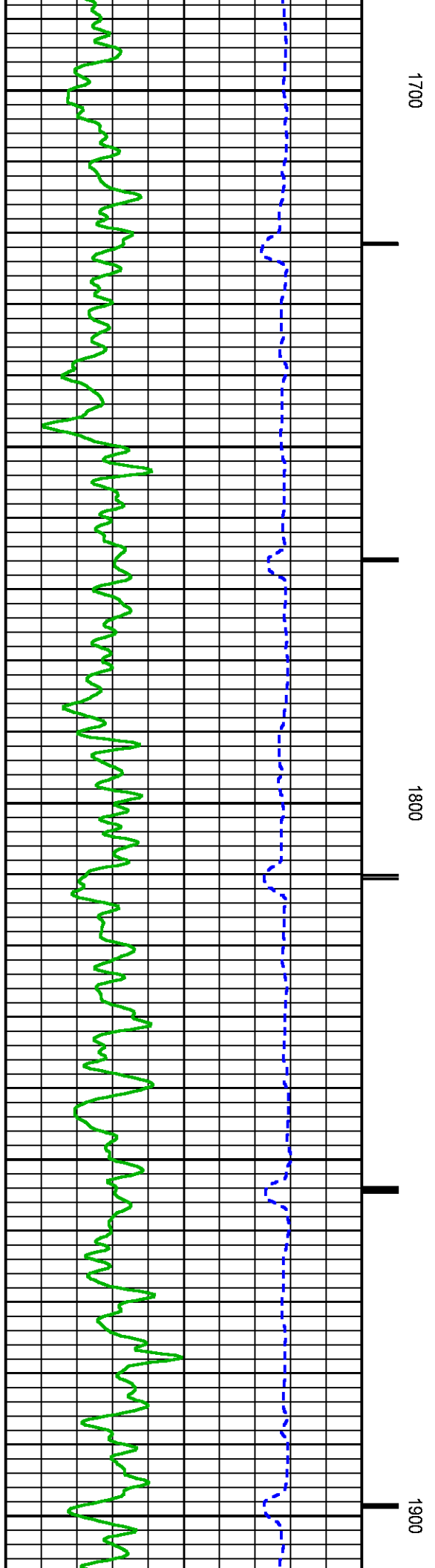
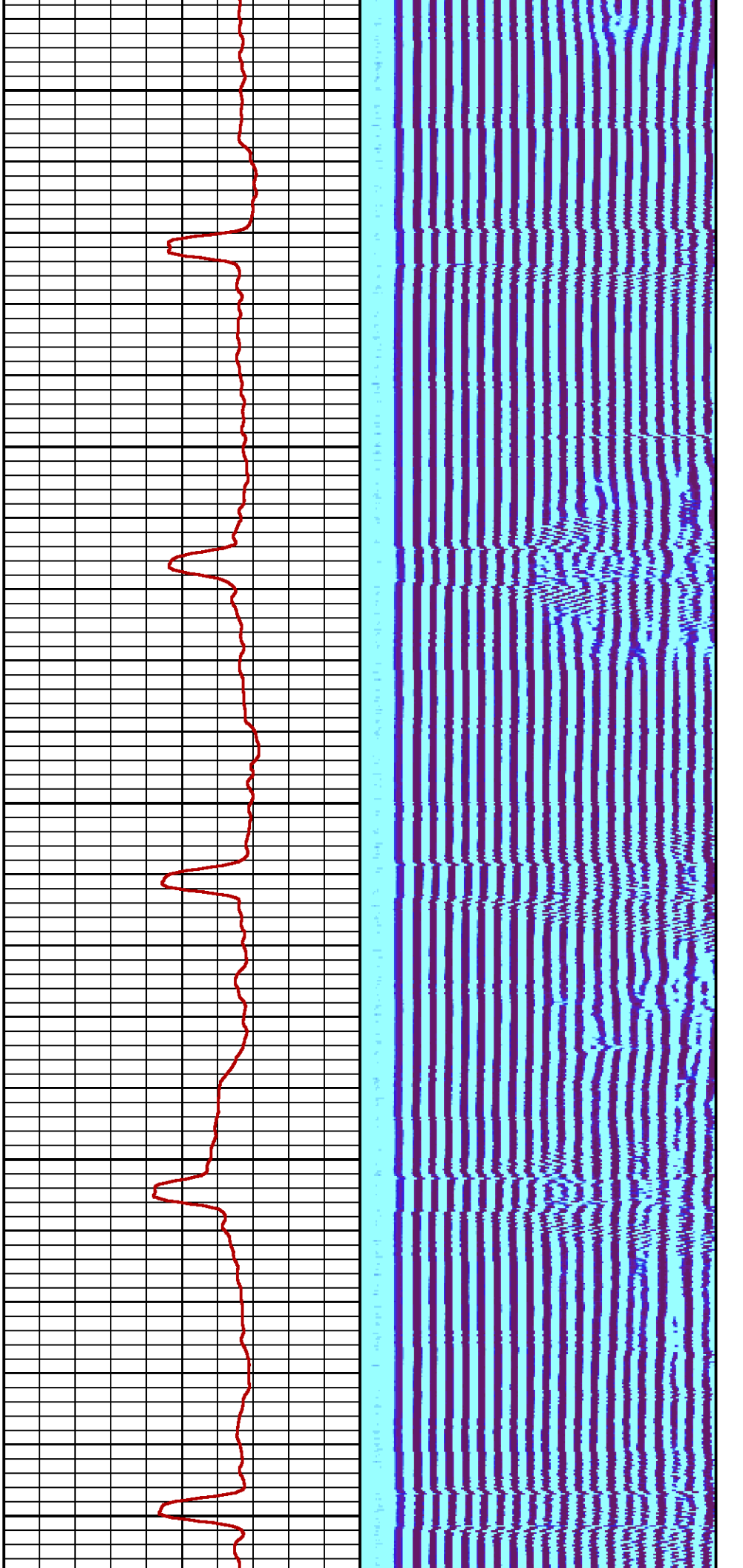














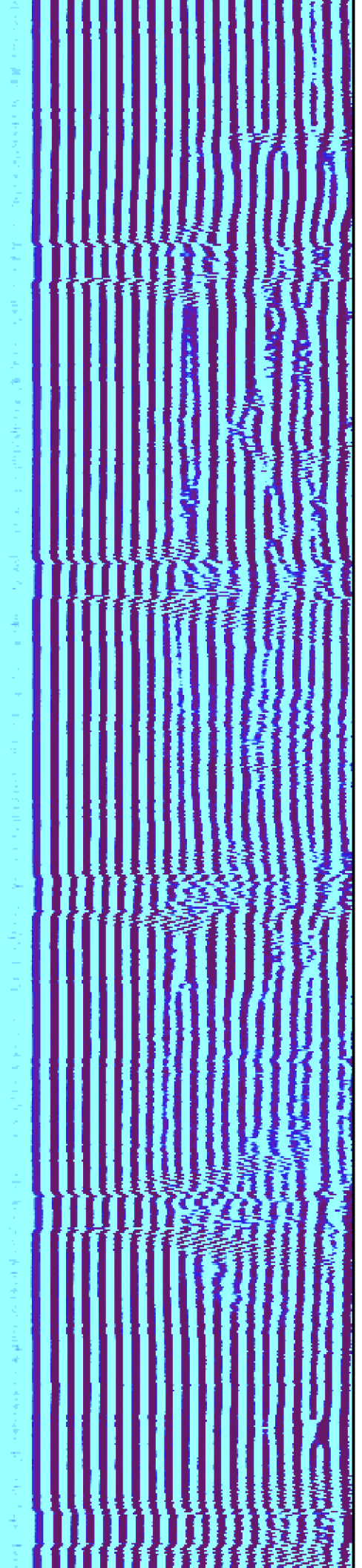
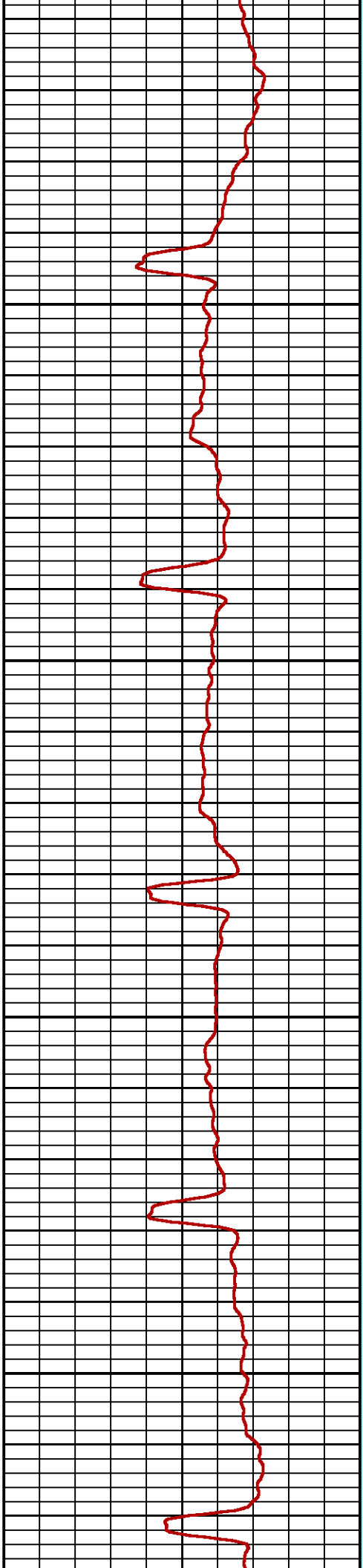
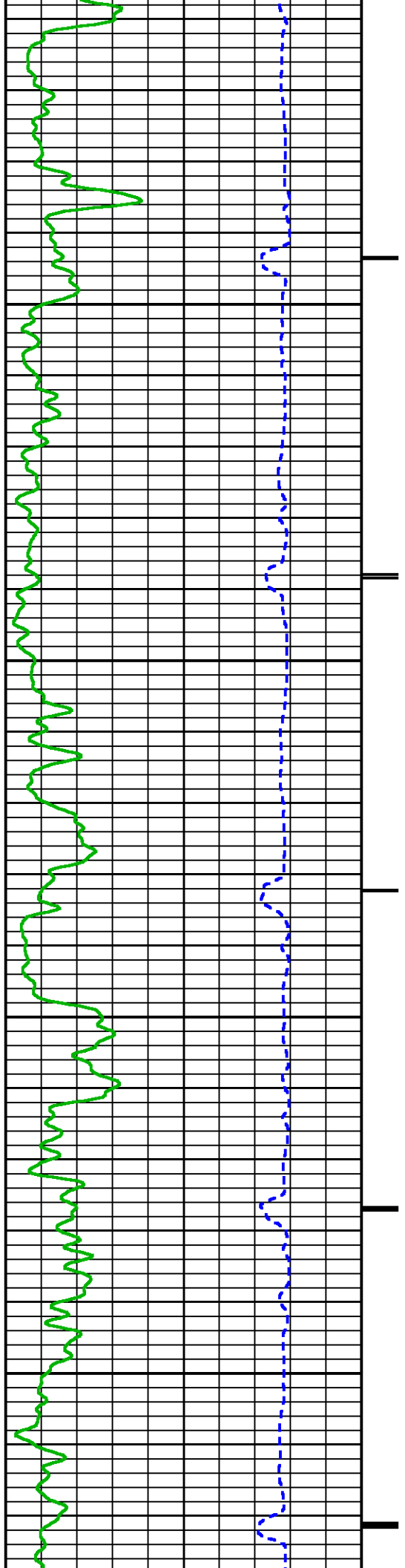


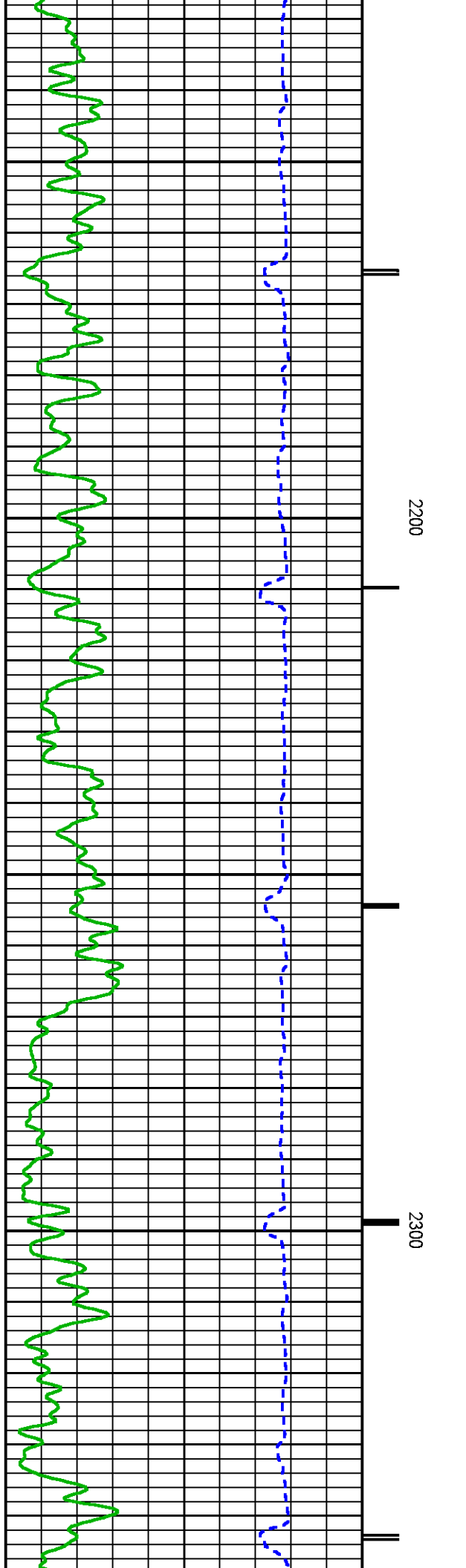
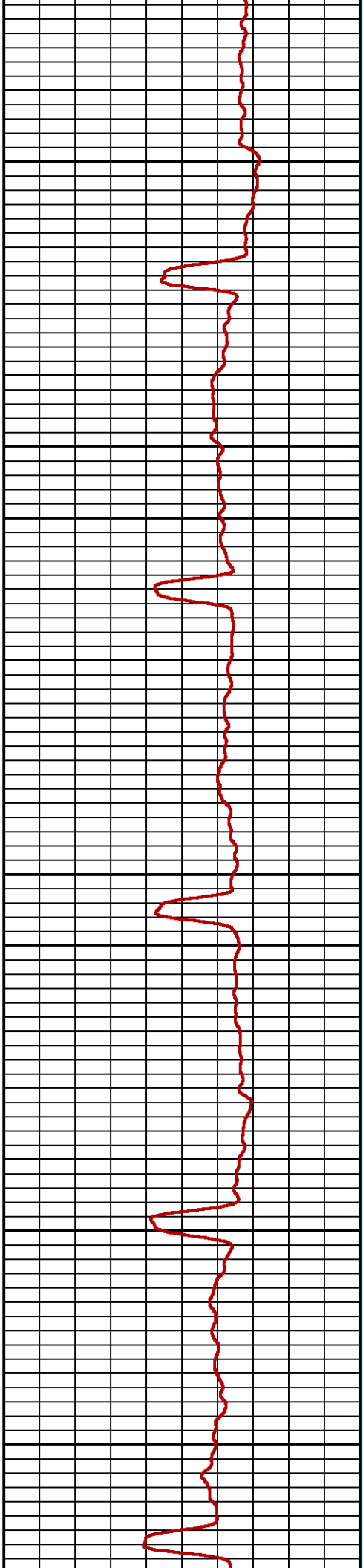
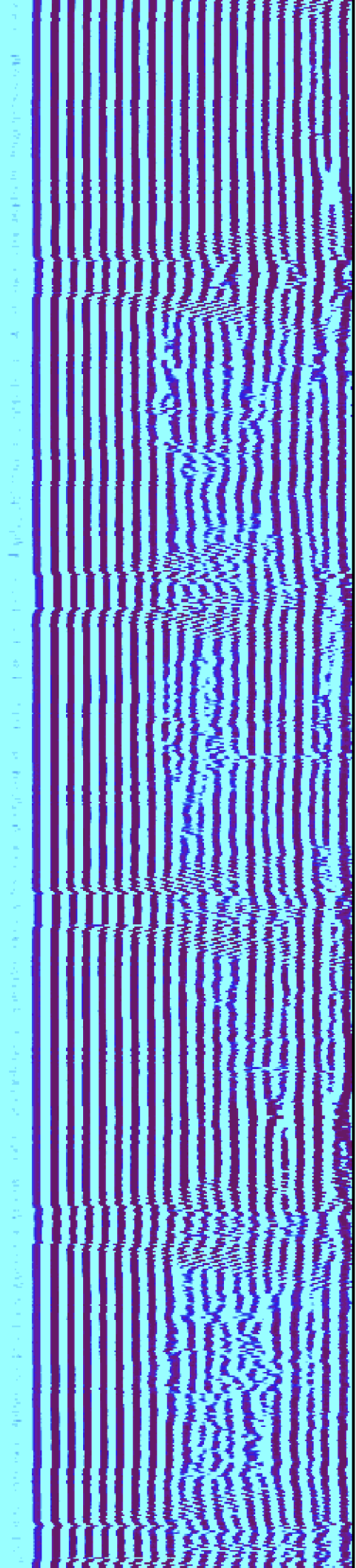
Figure 1: A 2D seismic image showing a series of stacked seismic traces. The traces are oriented vertically, with time increasing from top to bottom. The image displays complex wave patterns, including reflections and refractions, typical of a seismic survey. The traces are closely spaced, showing high resolution in the time domain.

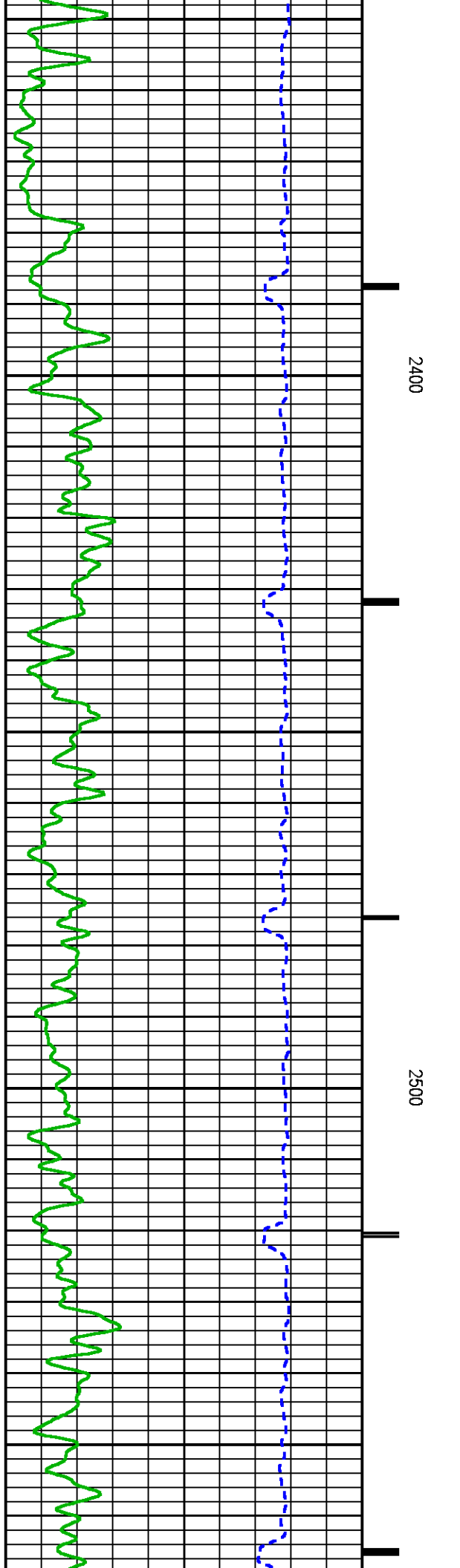
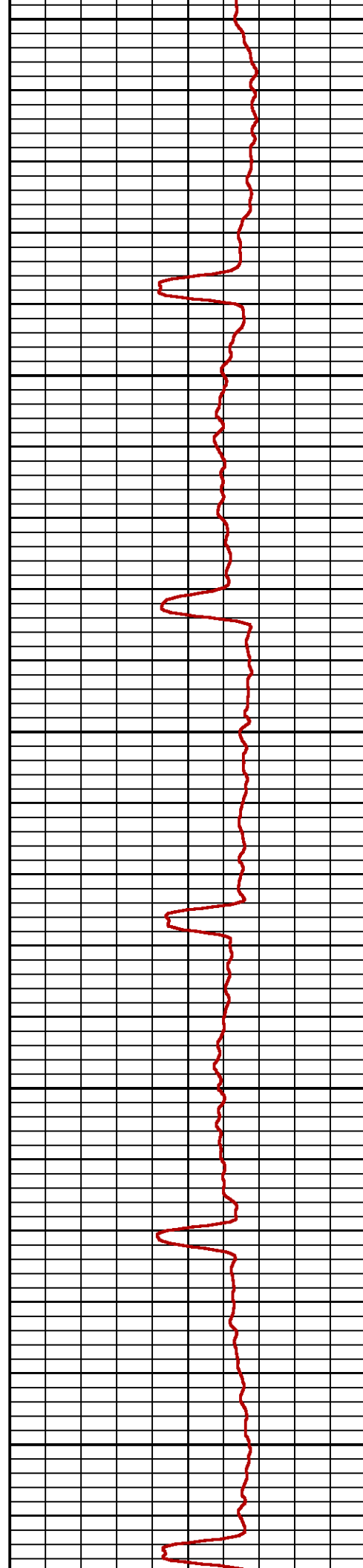
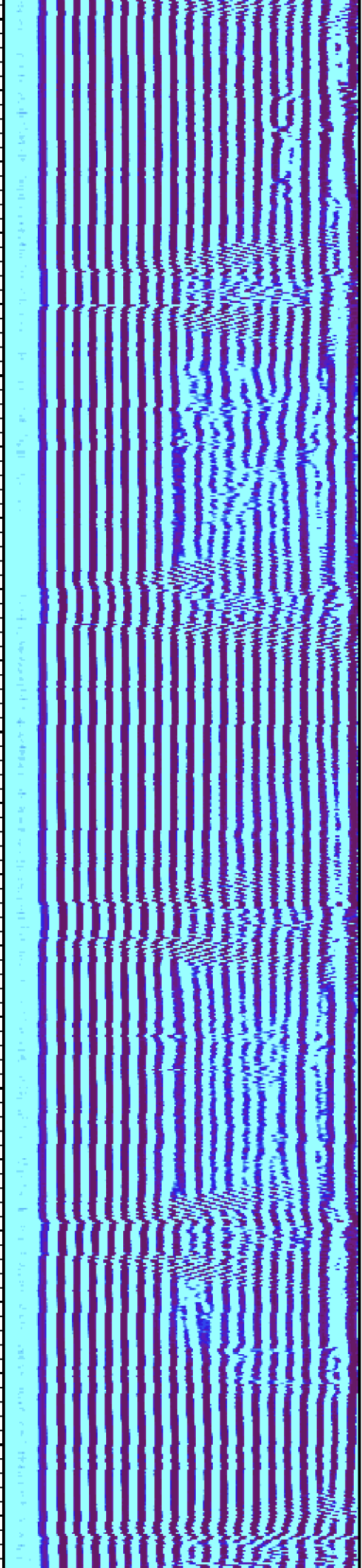


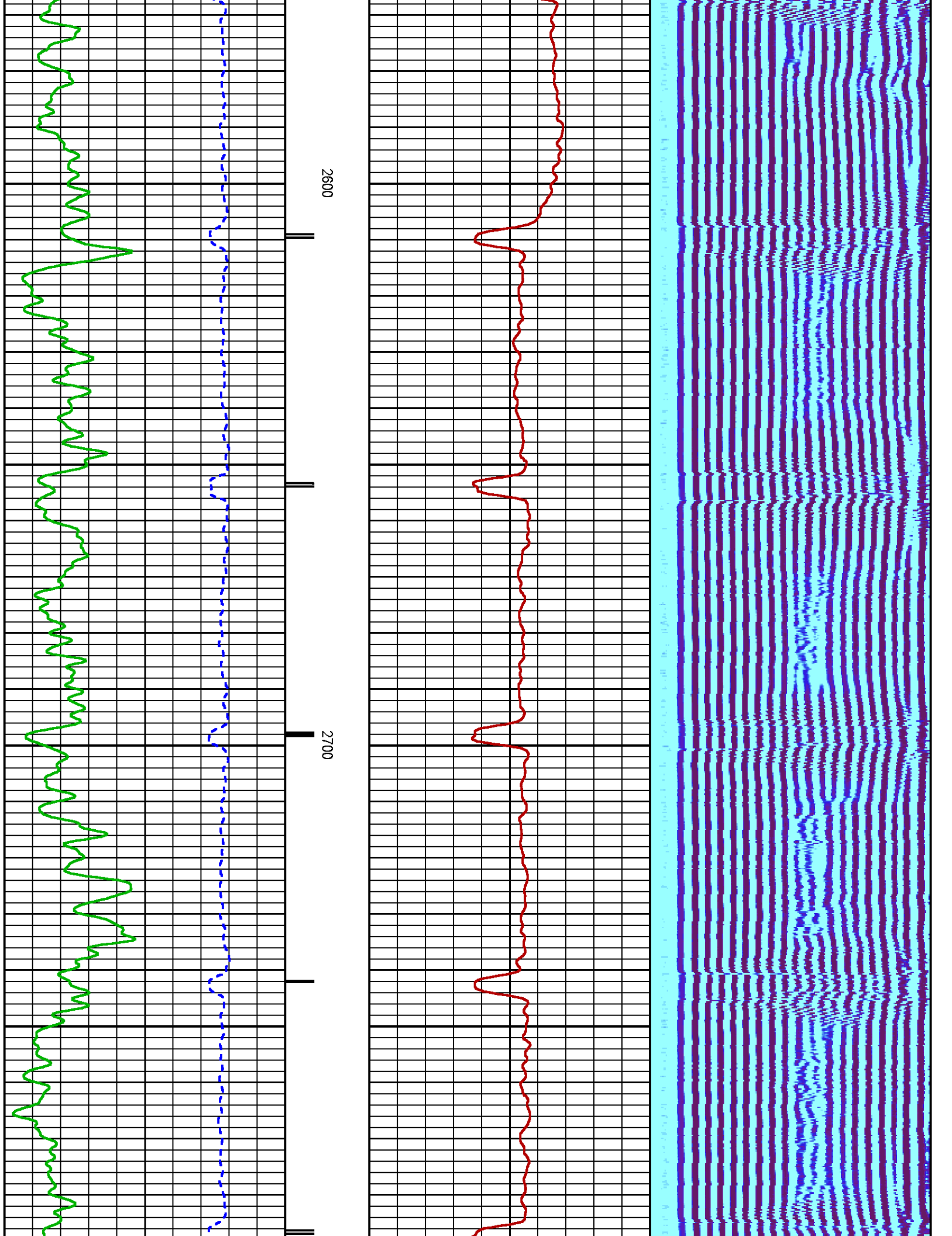
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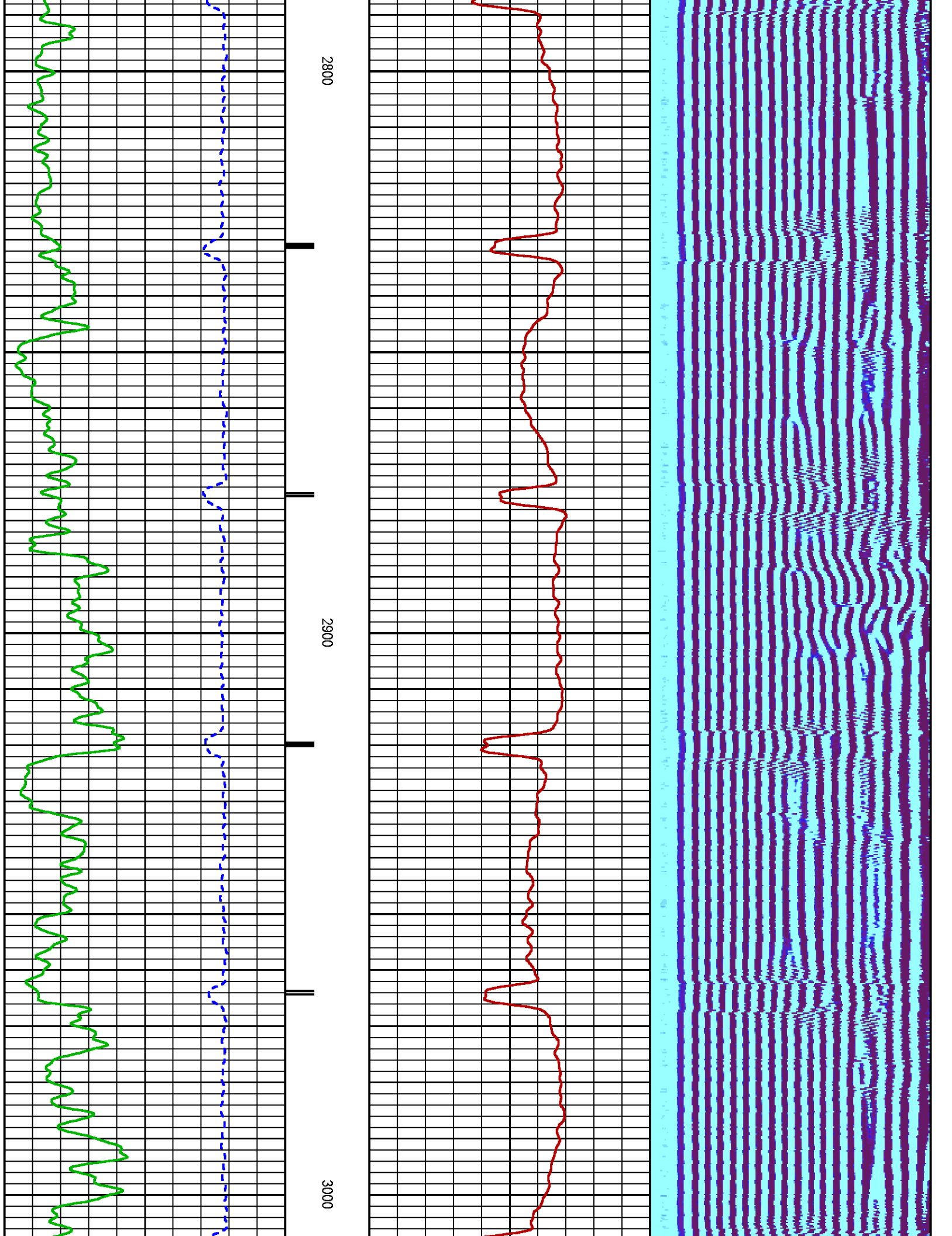


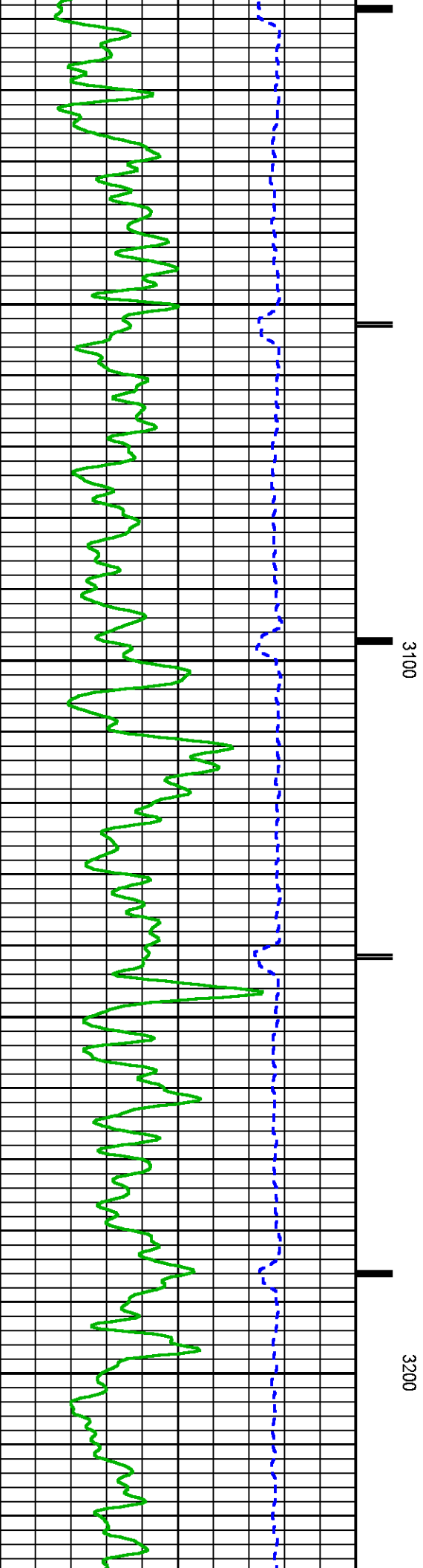
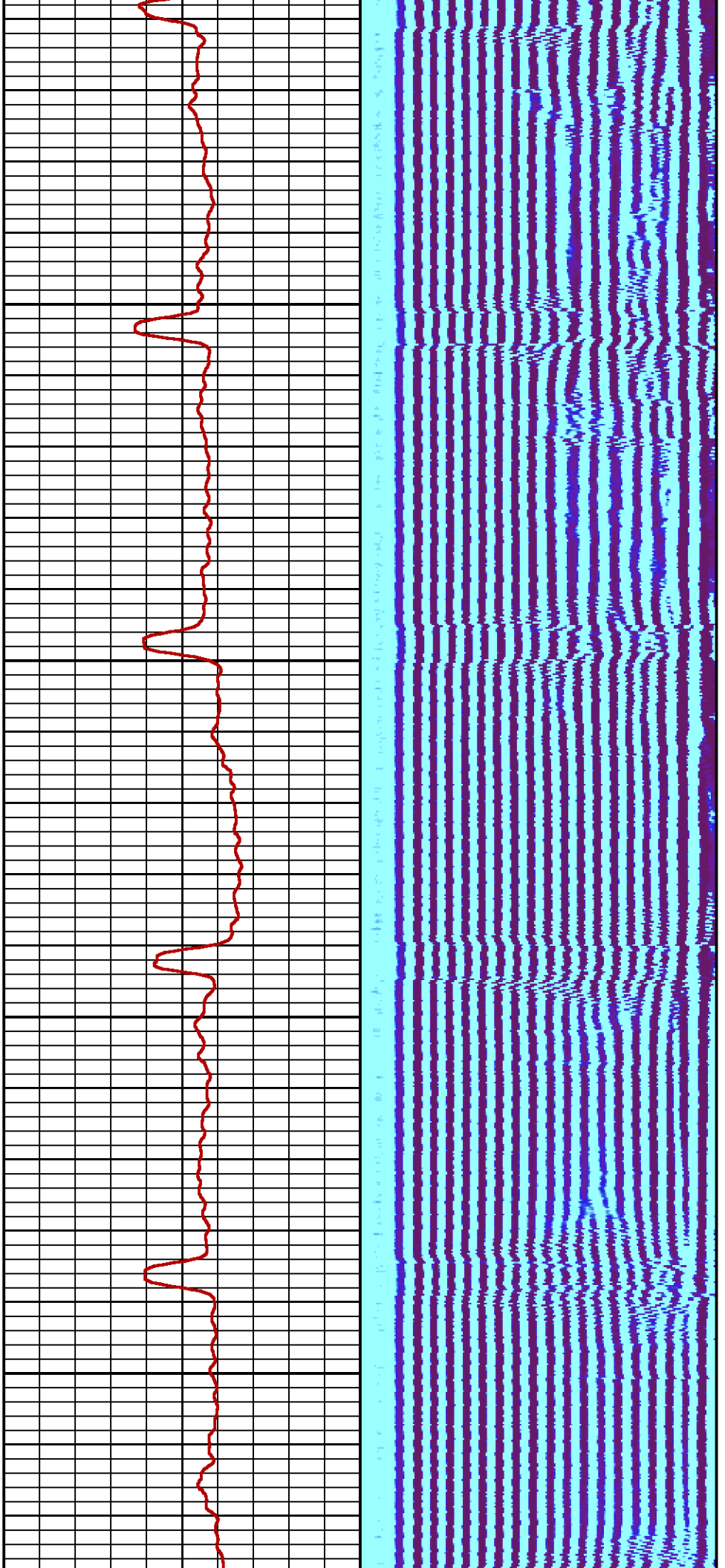


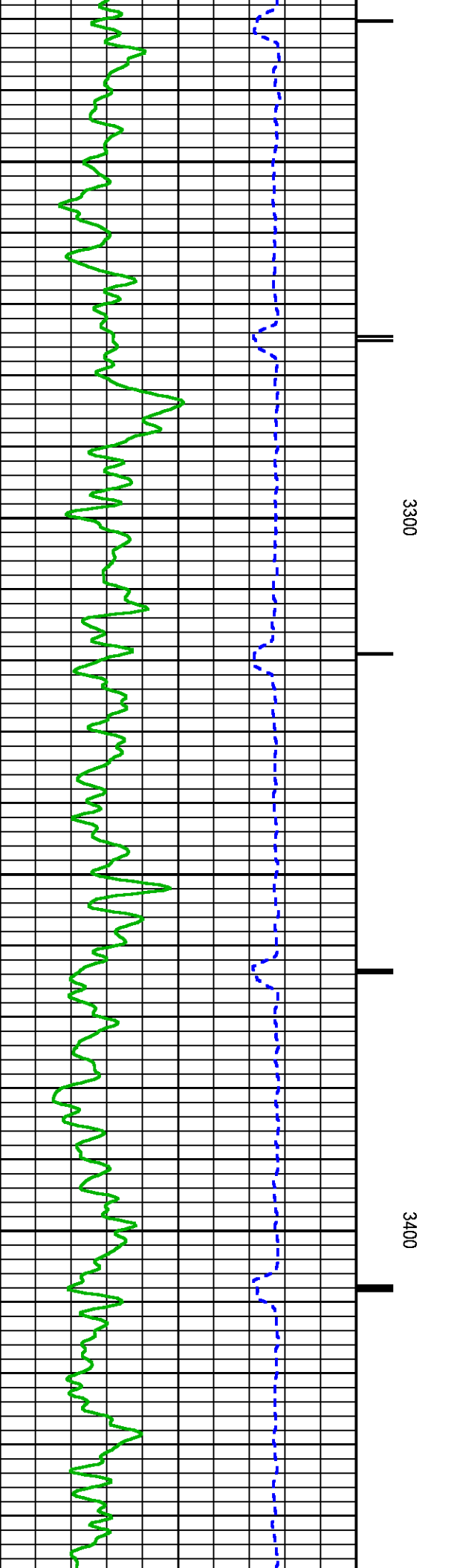
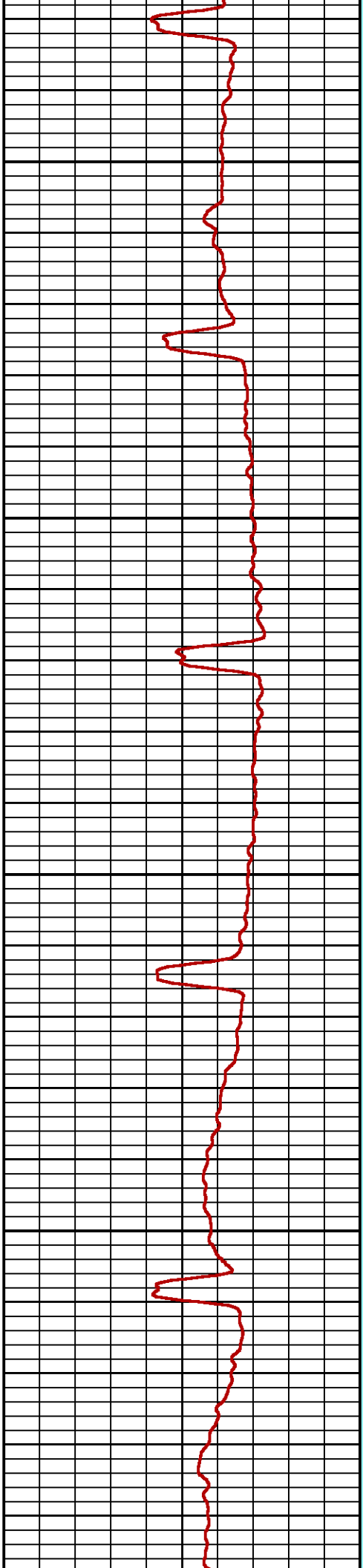
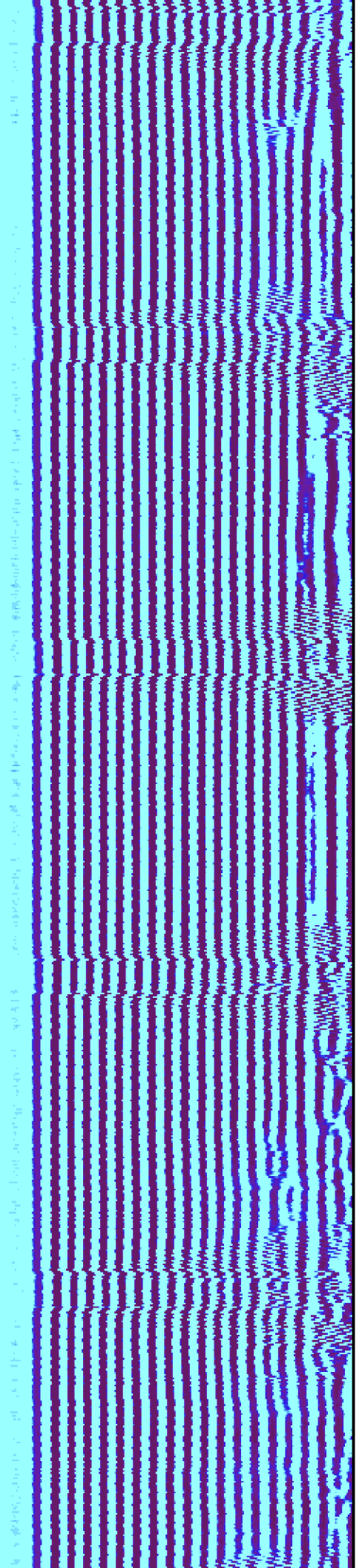




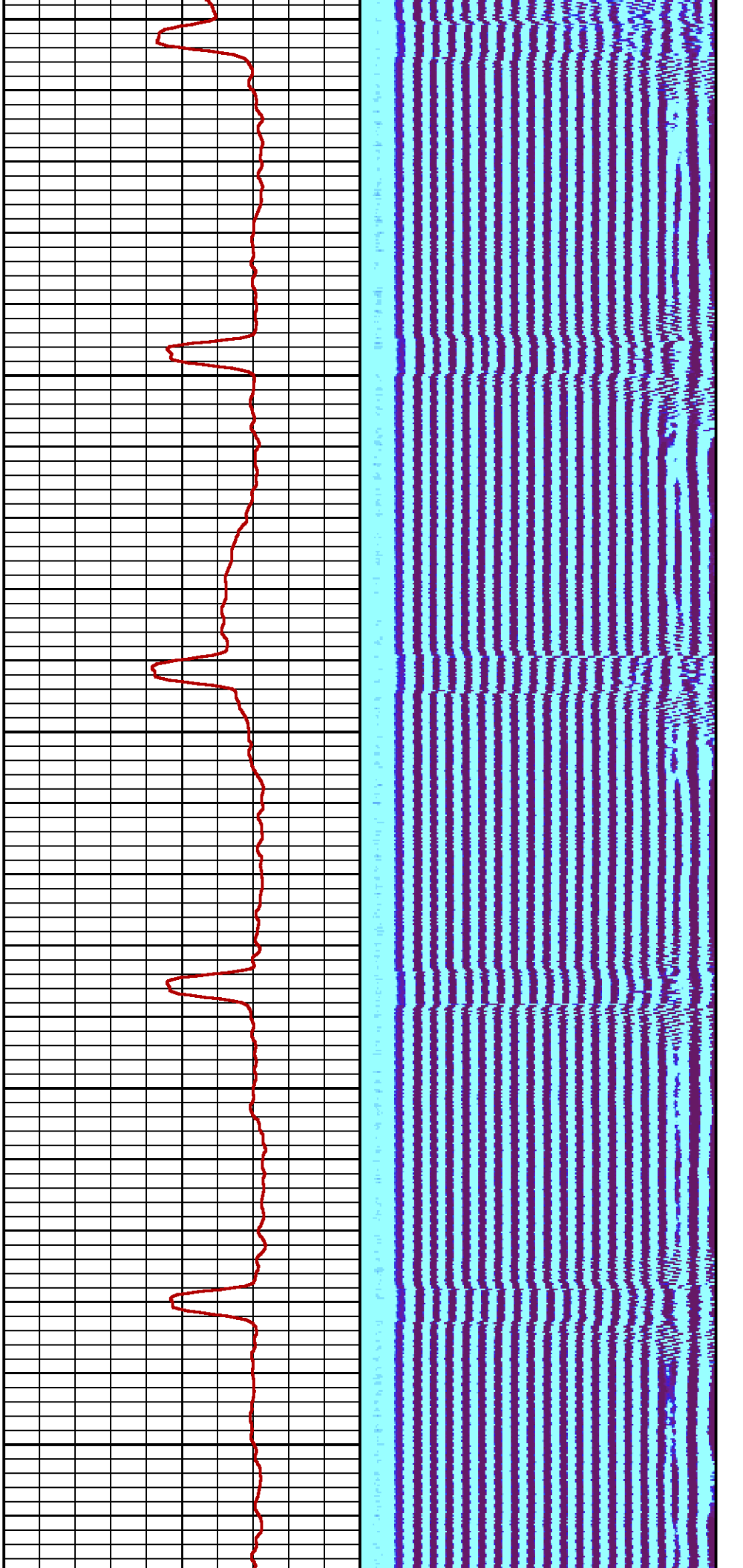






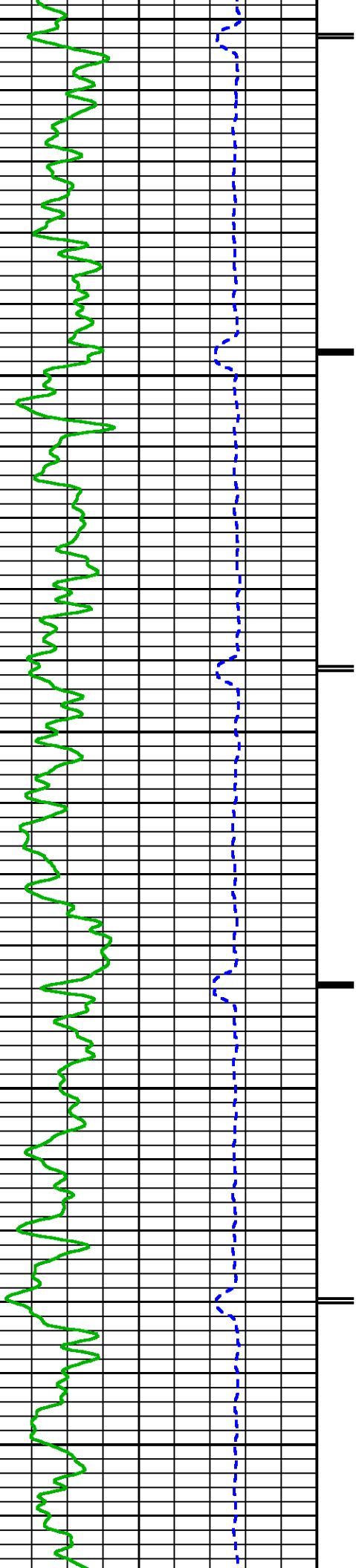


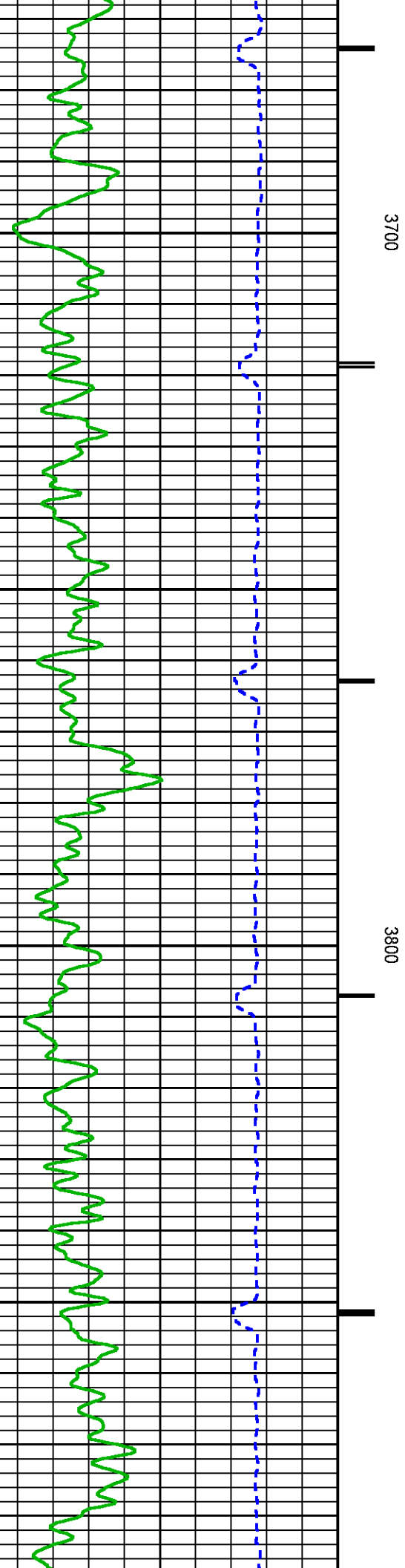
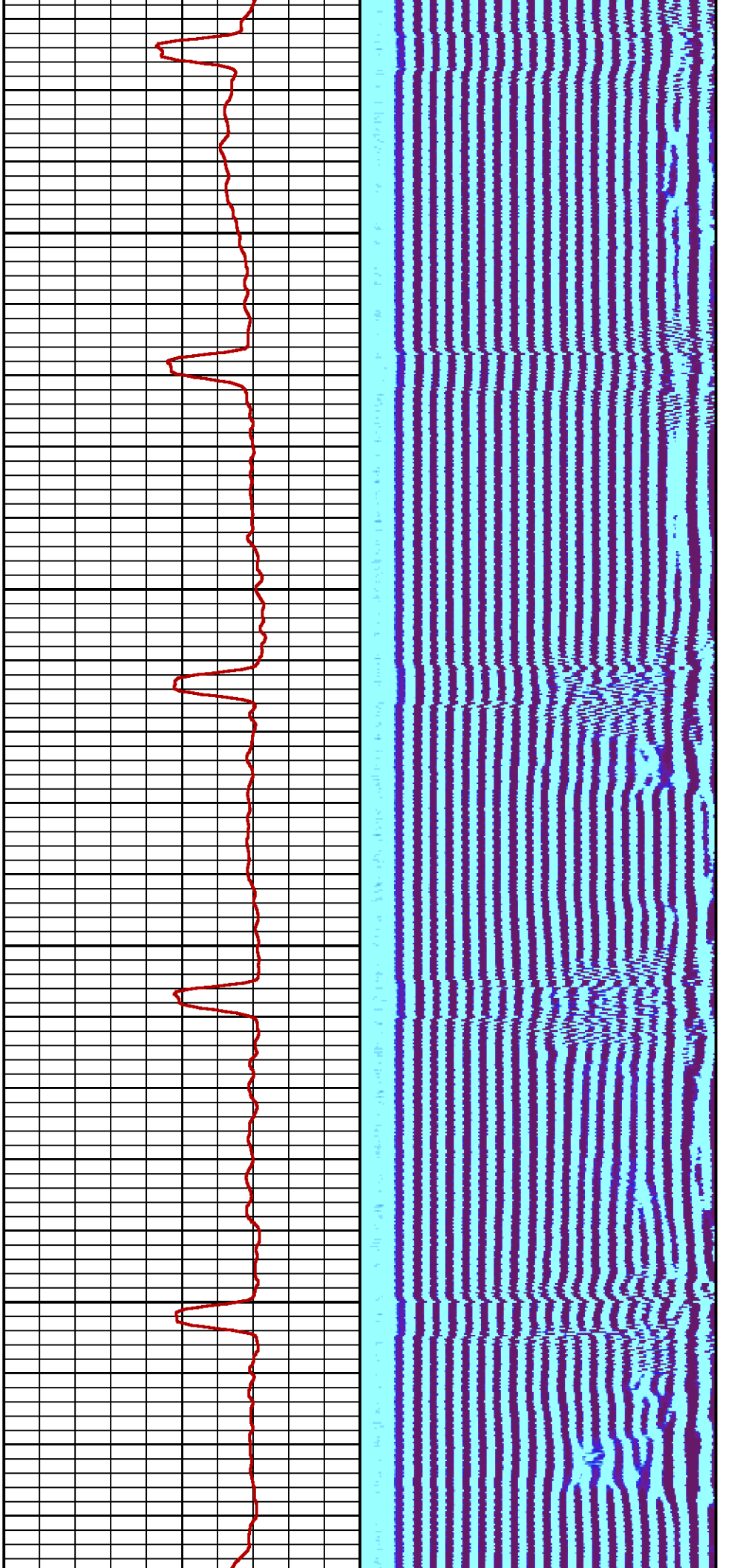


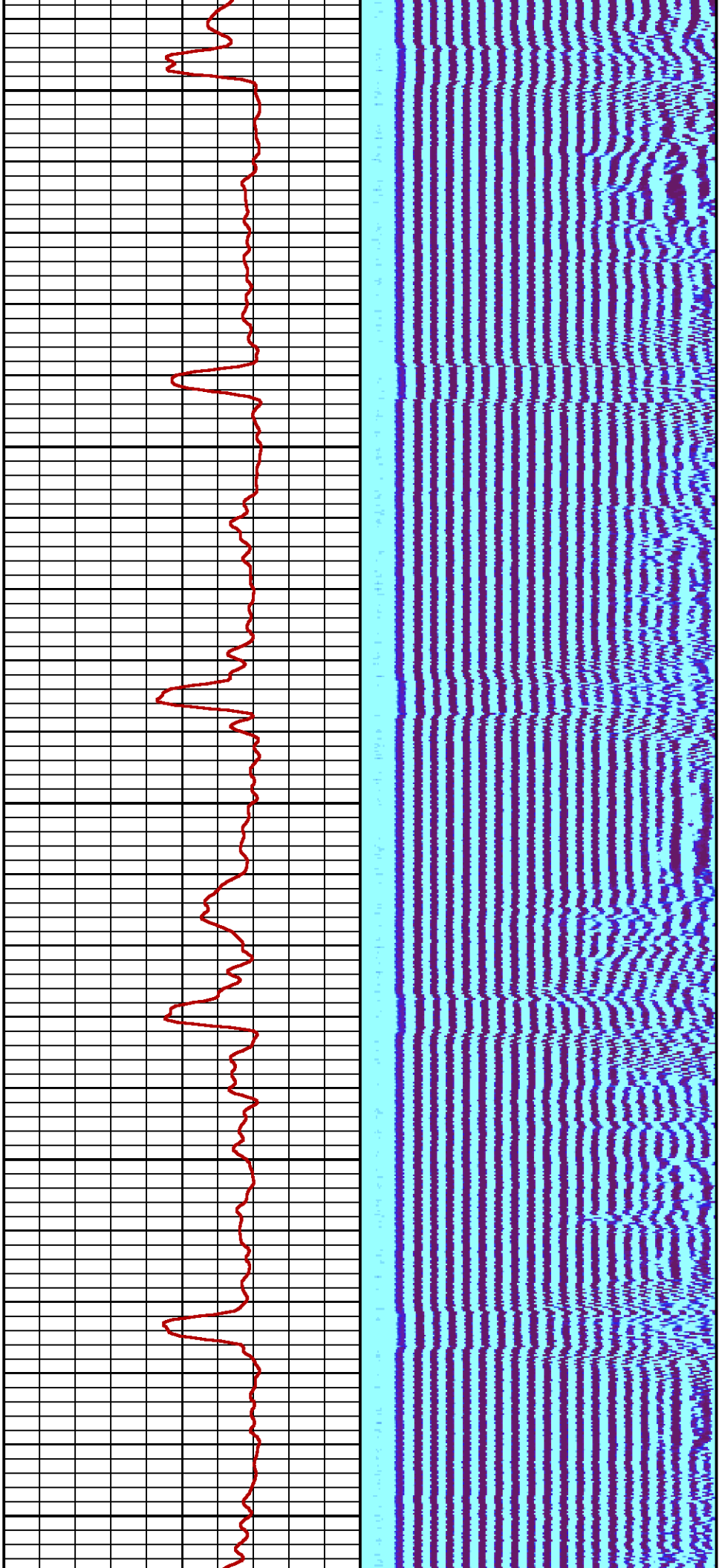


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3600



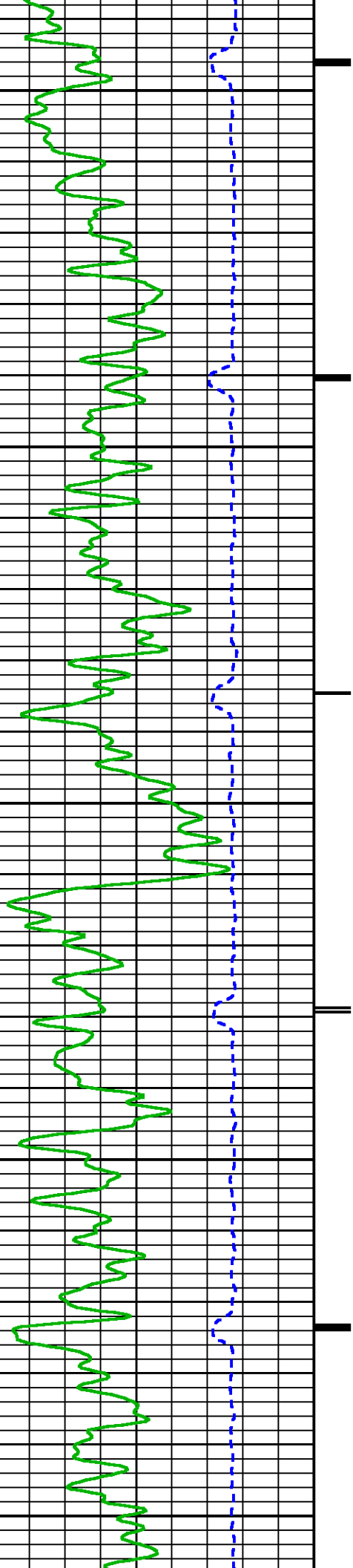


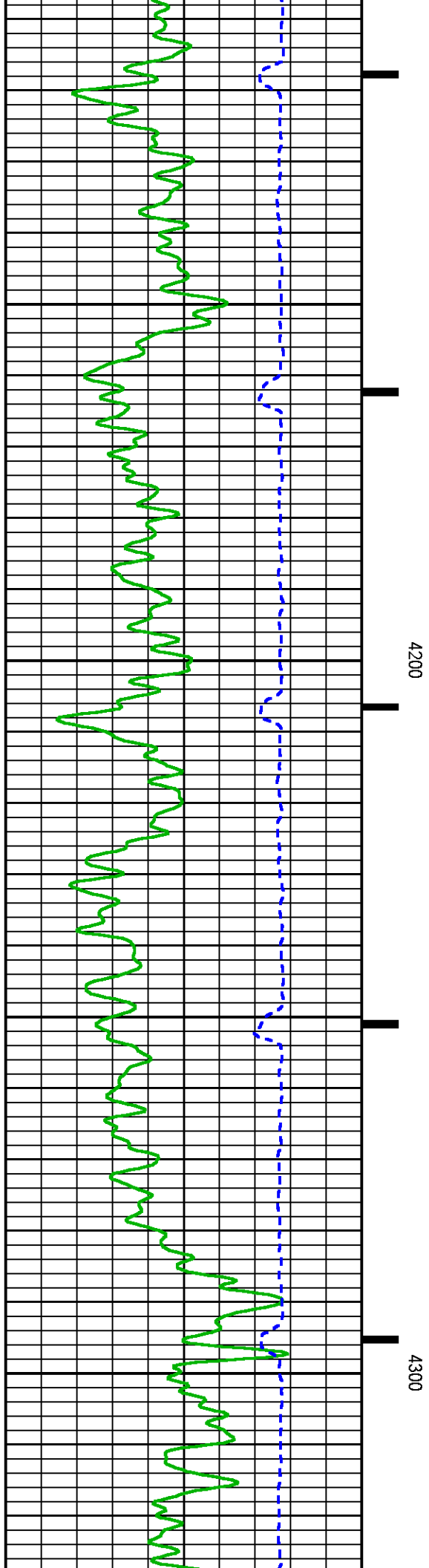
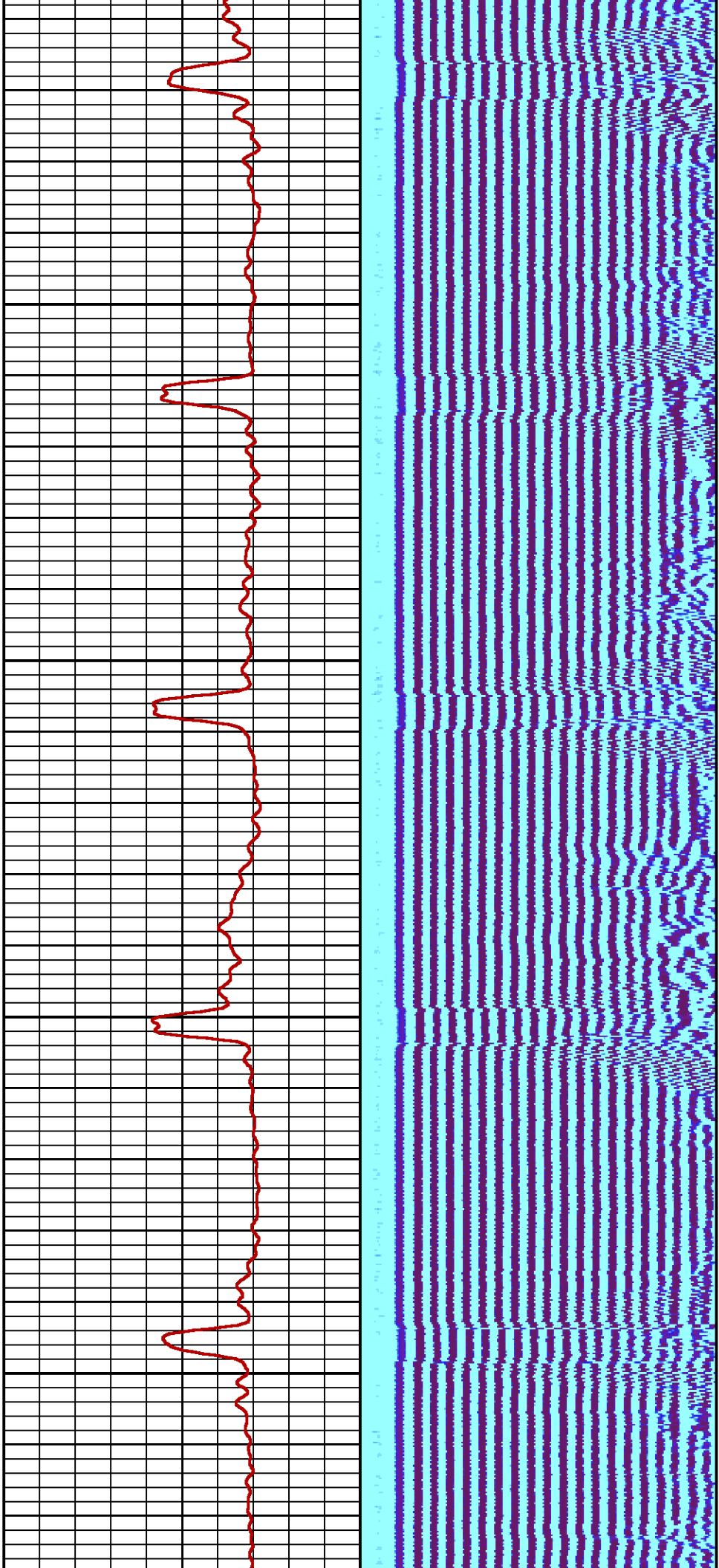


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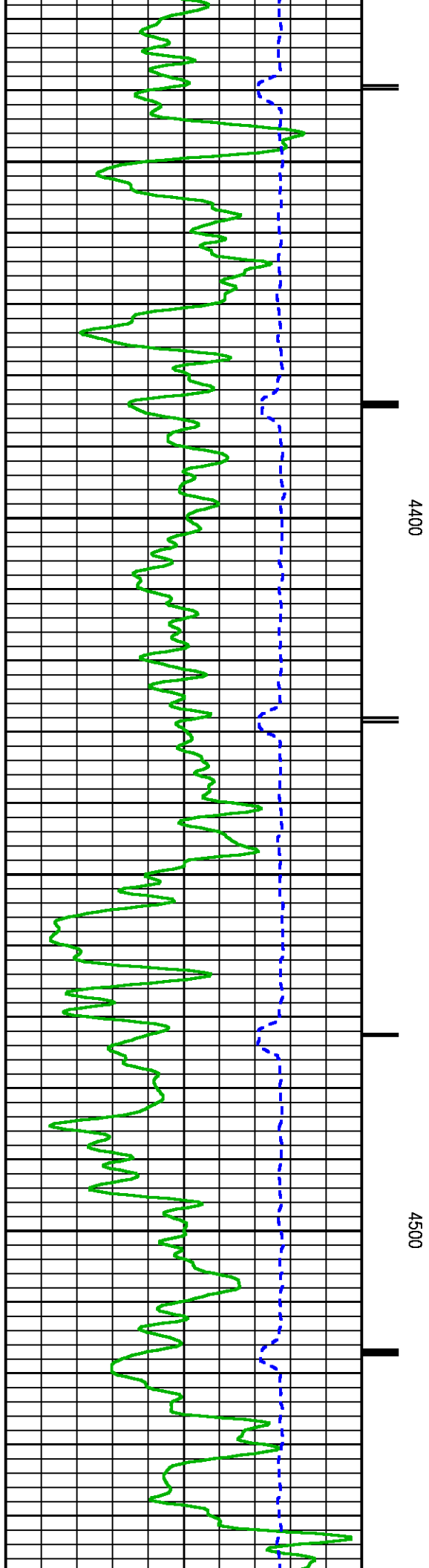
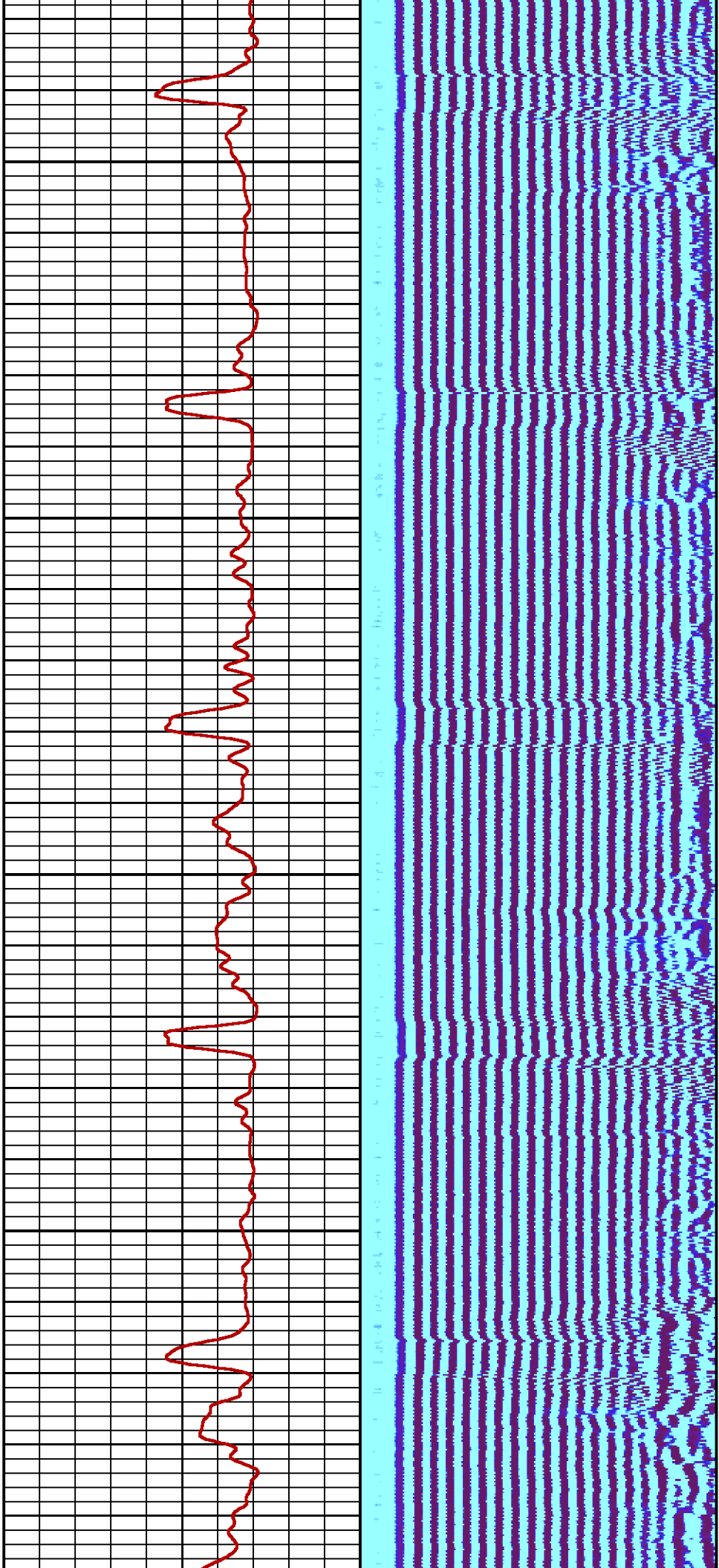
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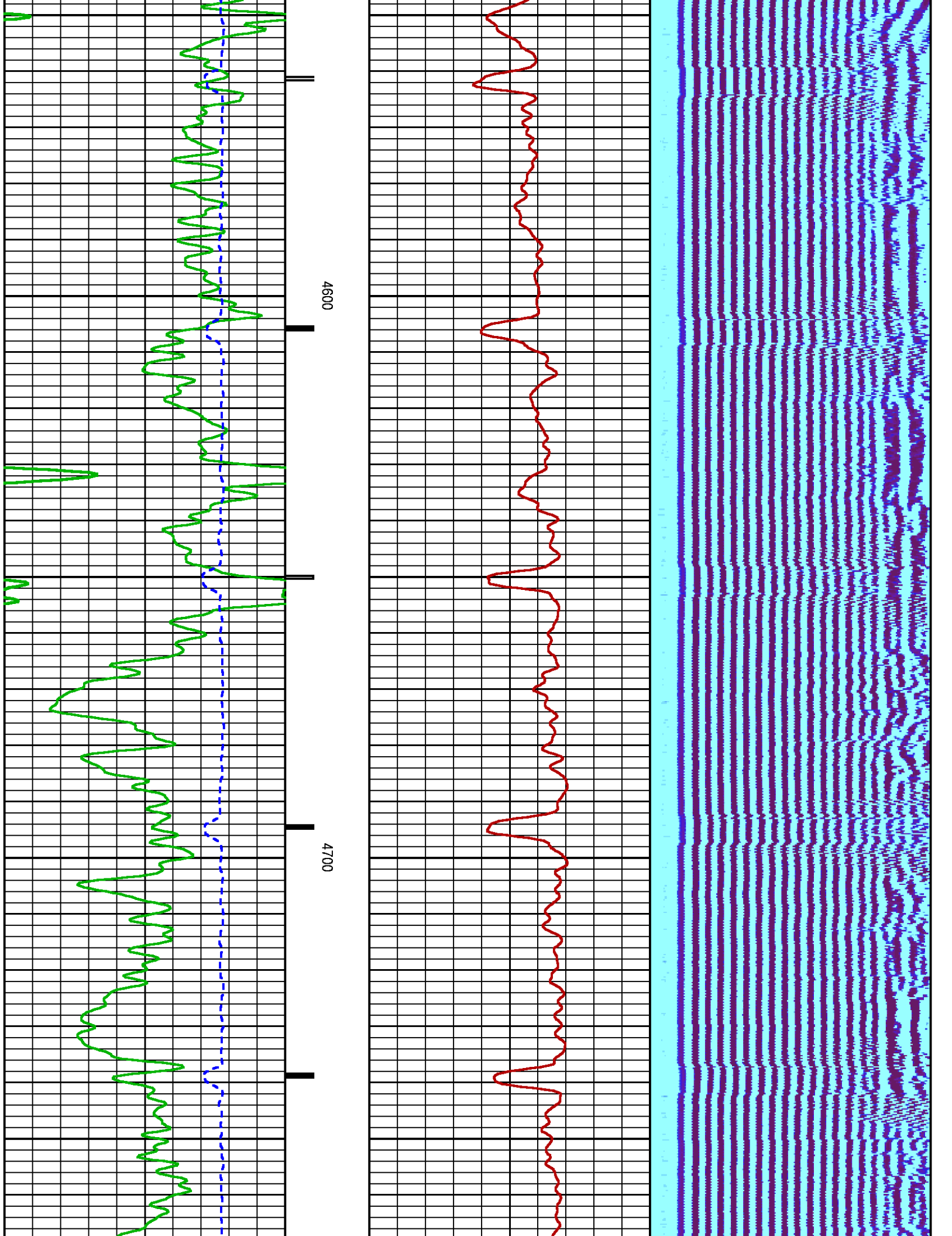
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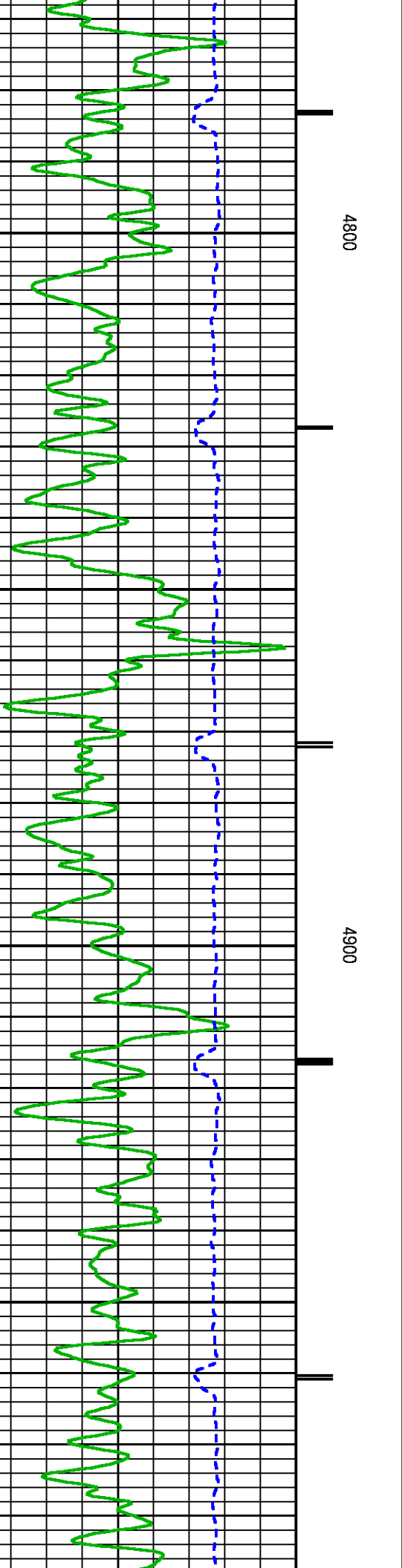
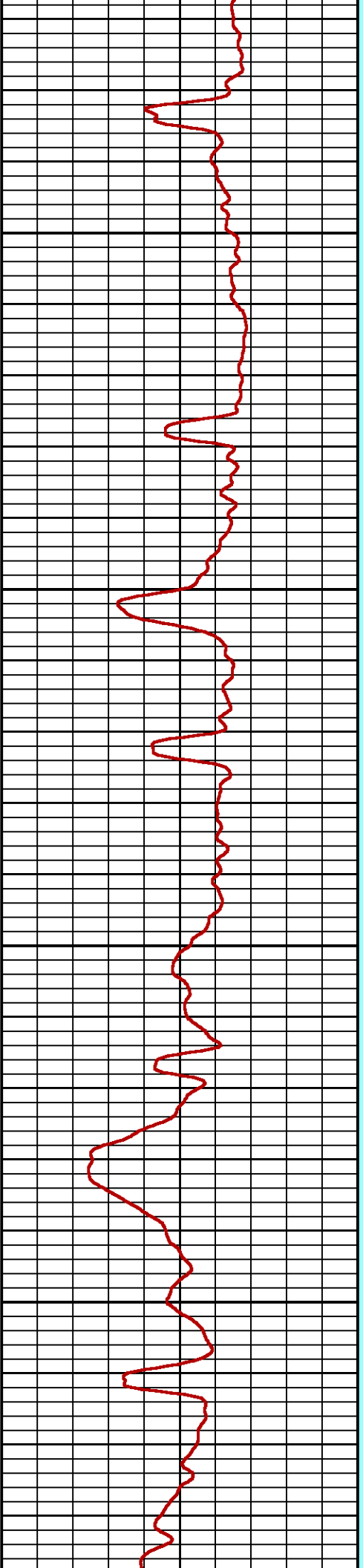
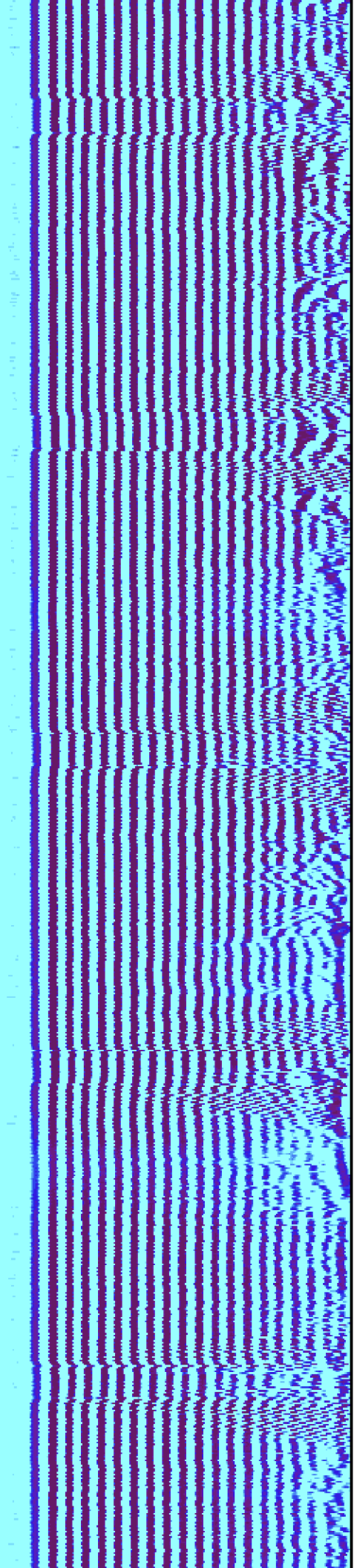




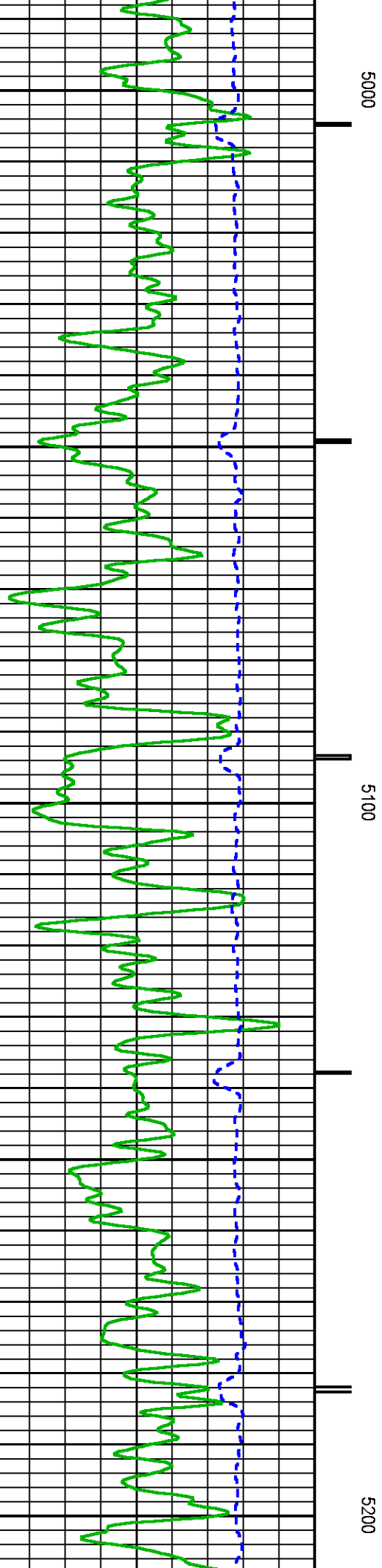
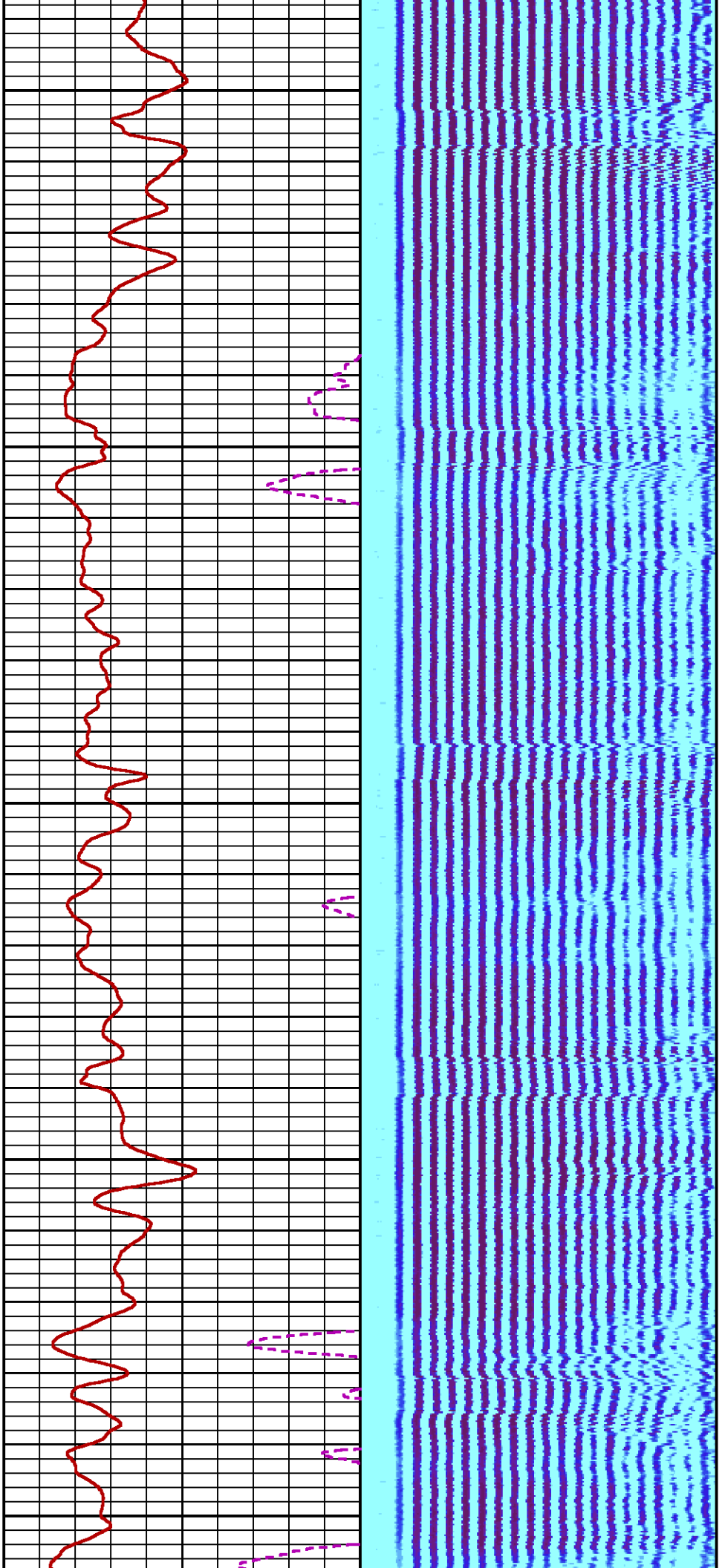


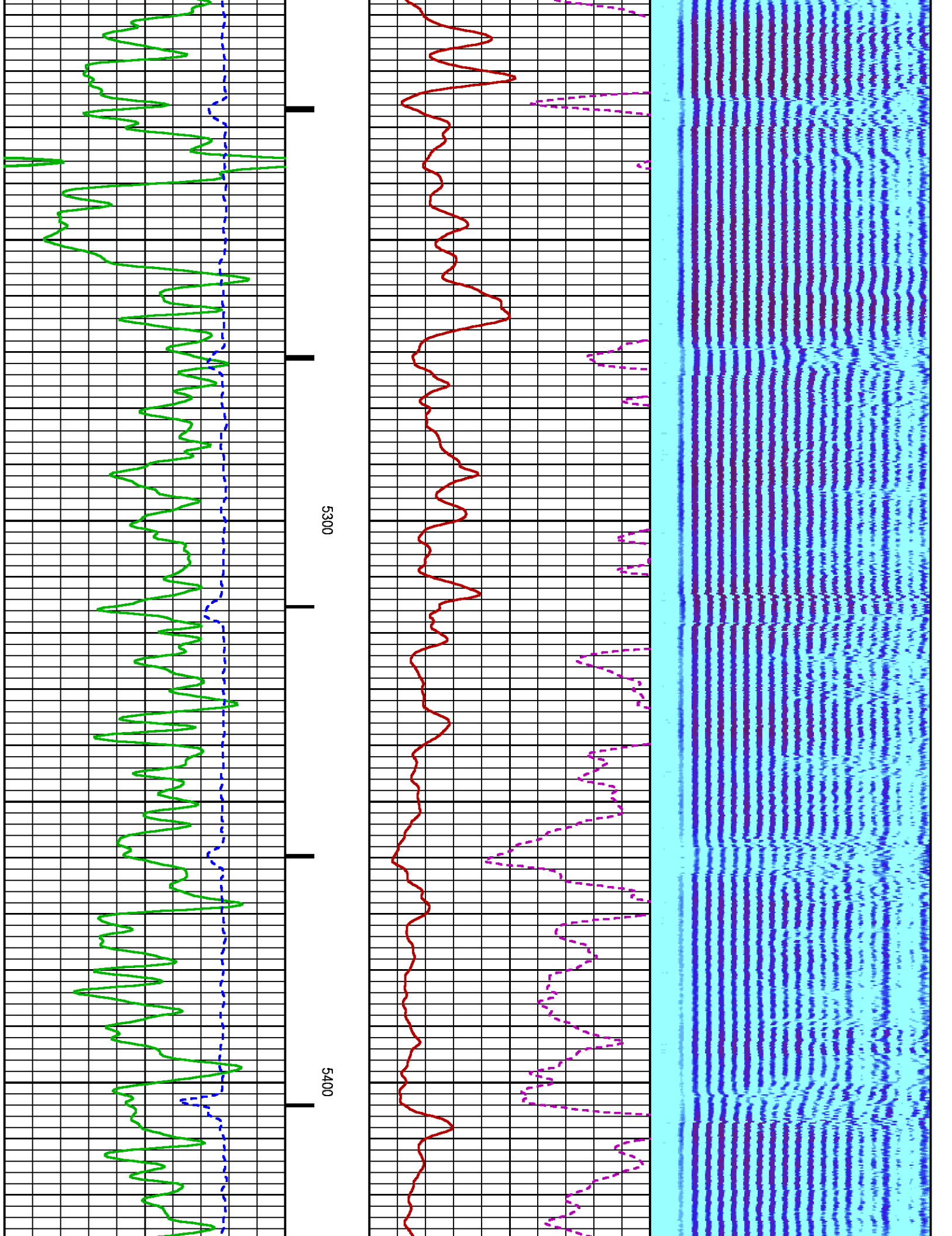


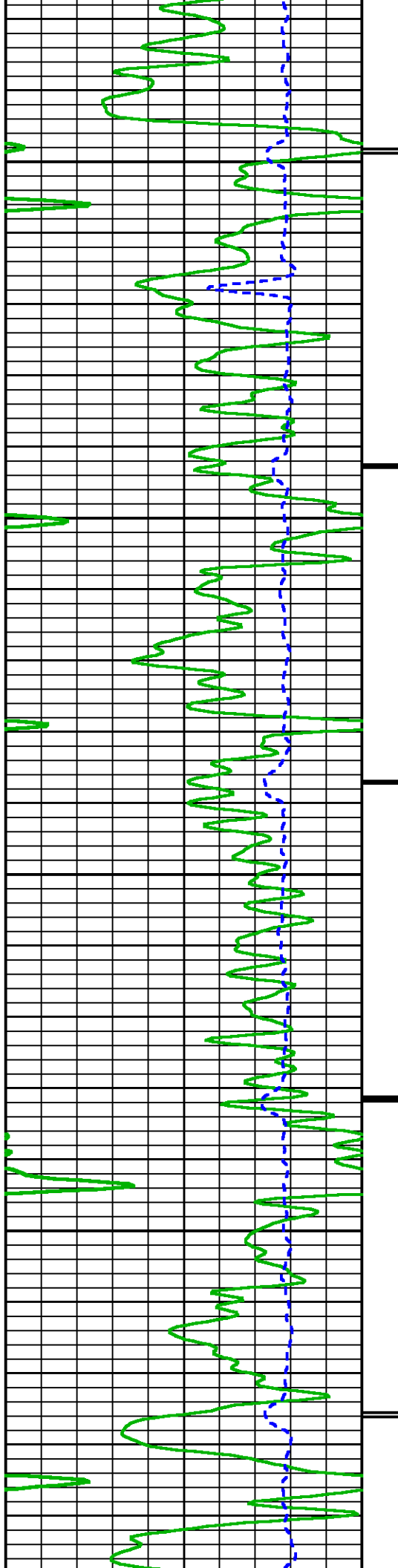






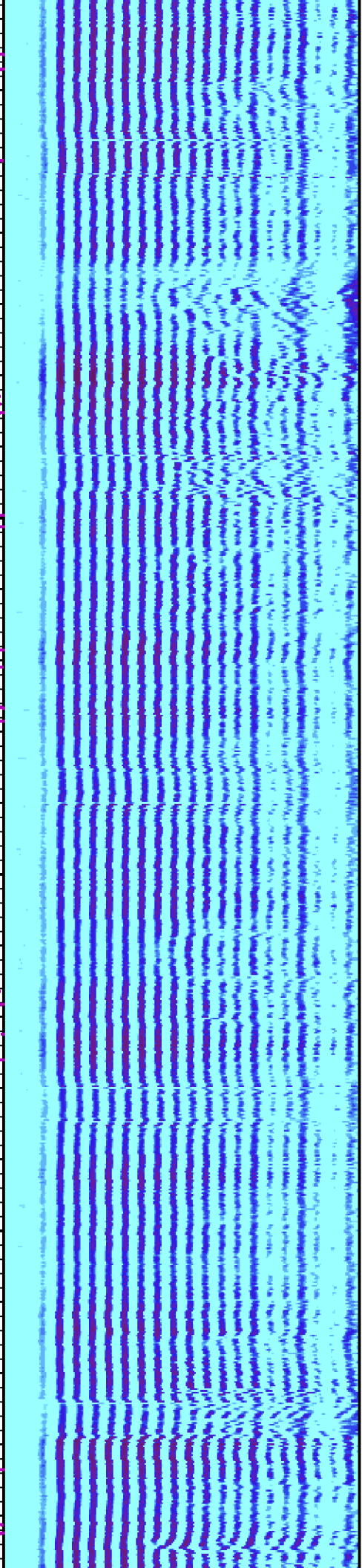
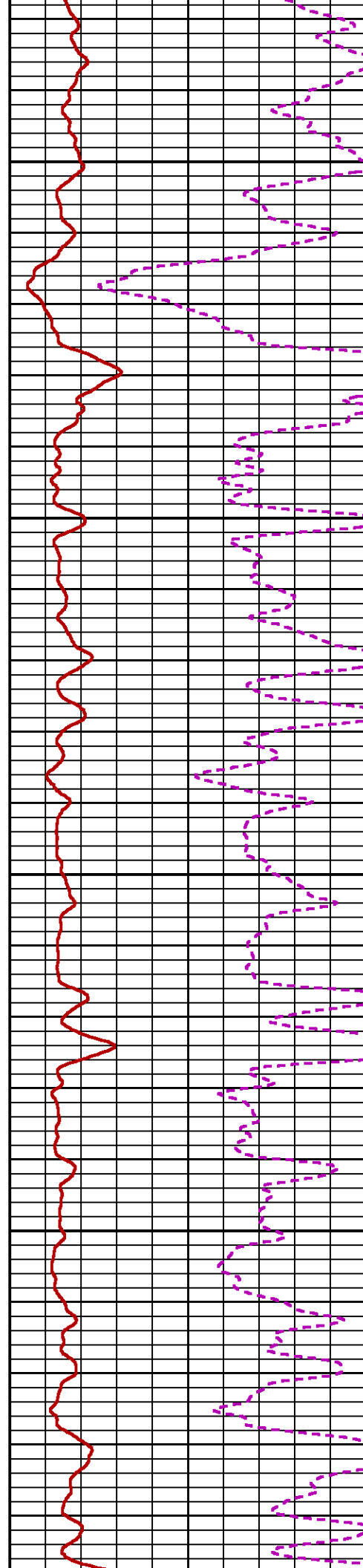




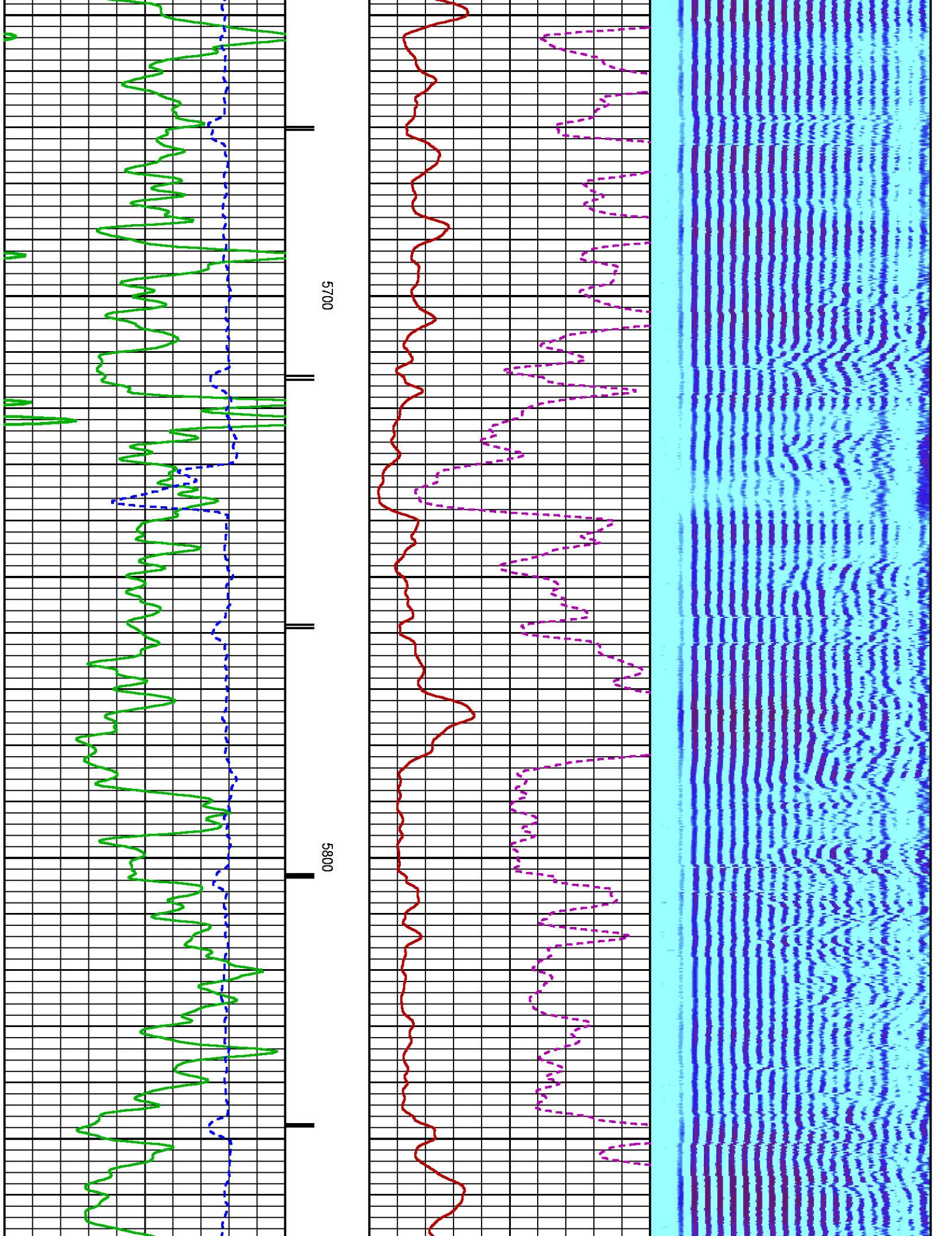


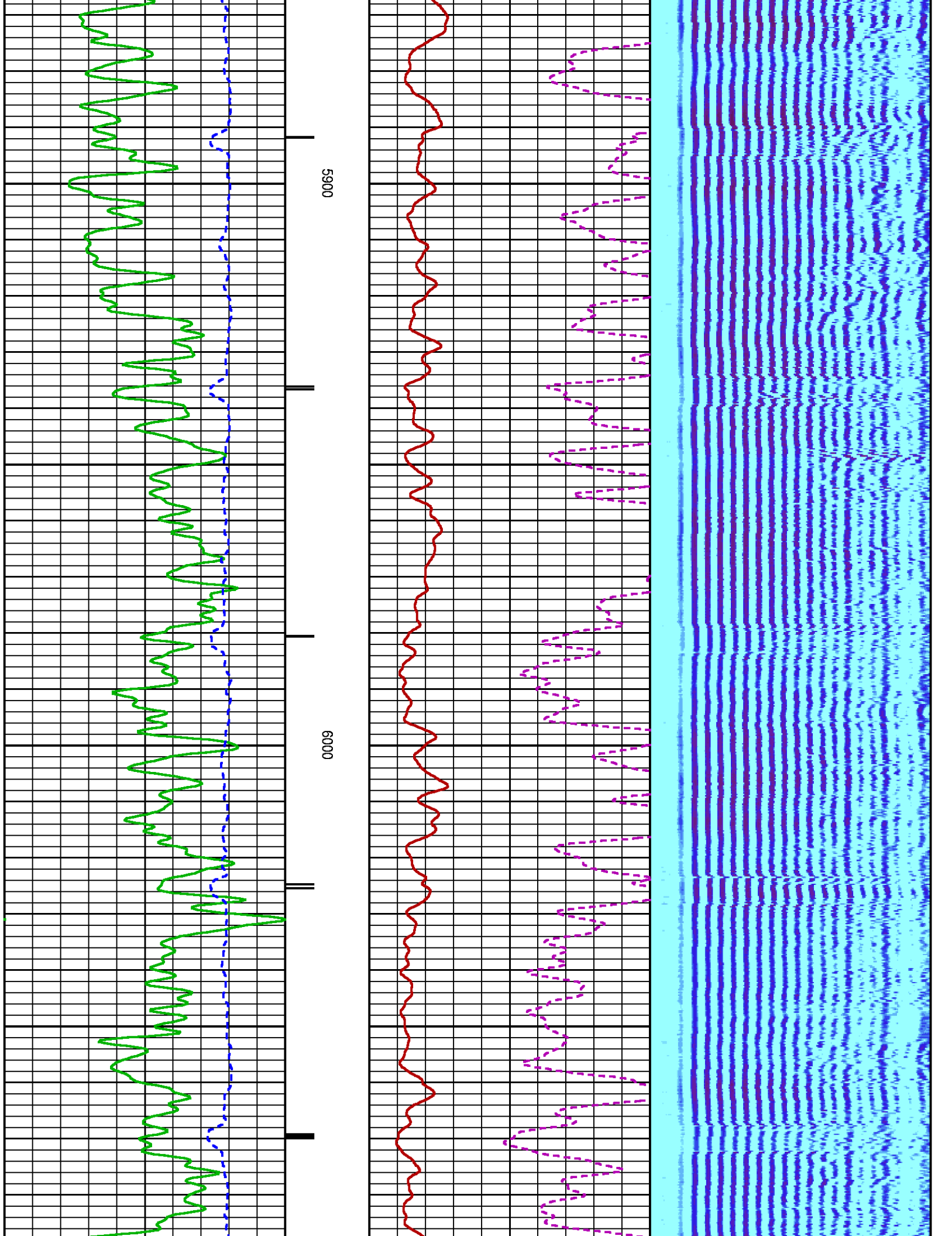
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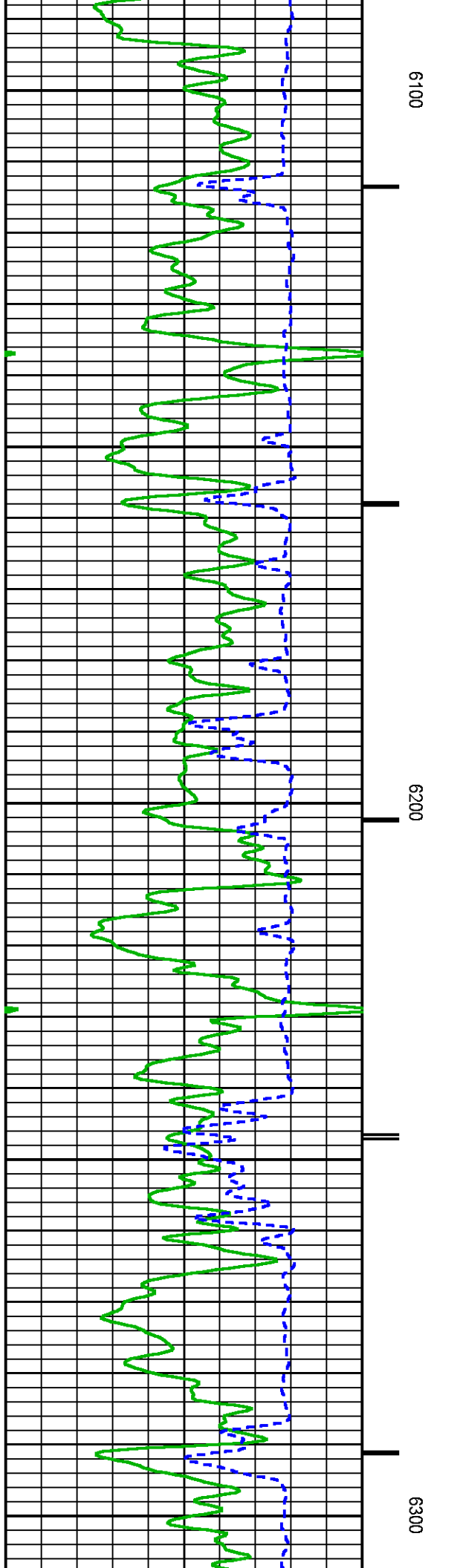
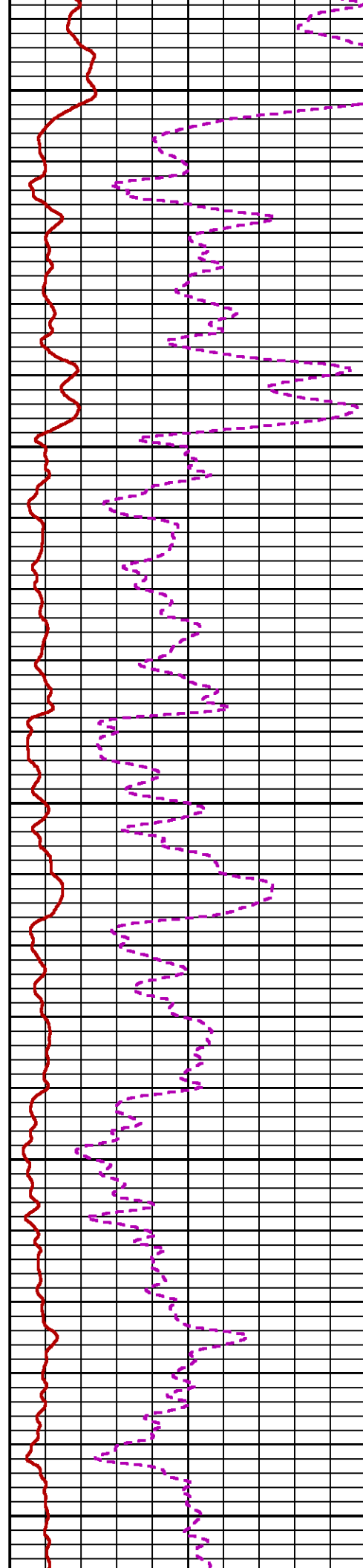
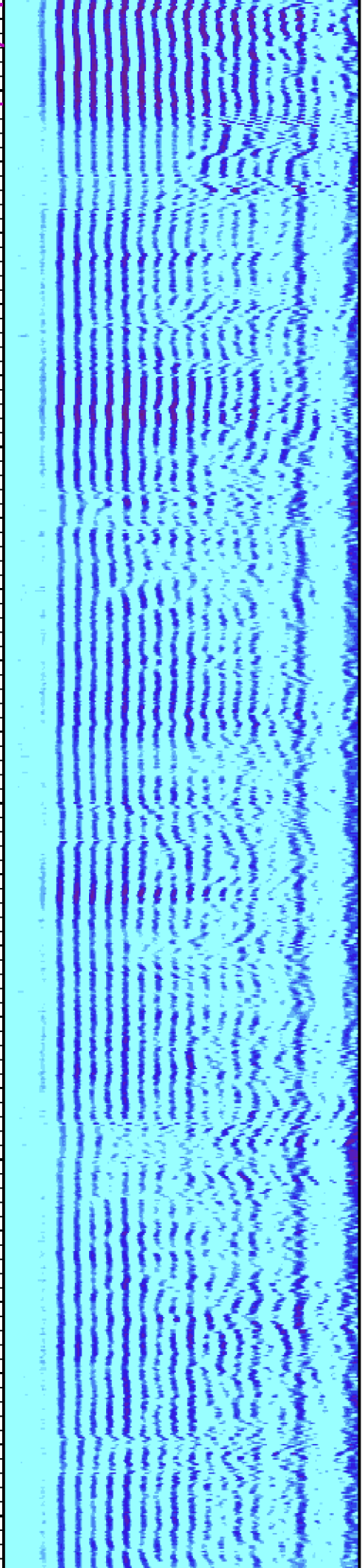
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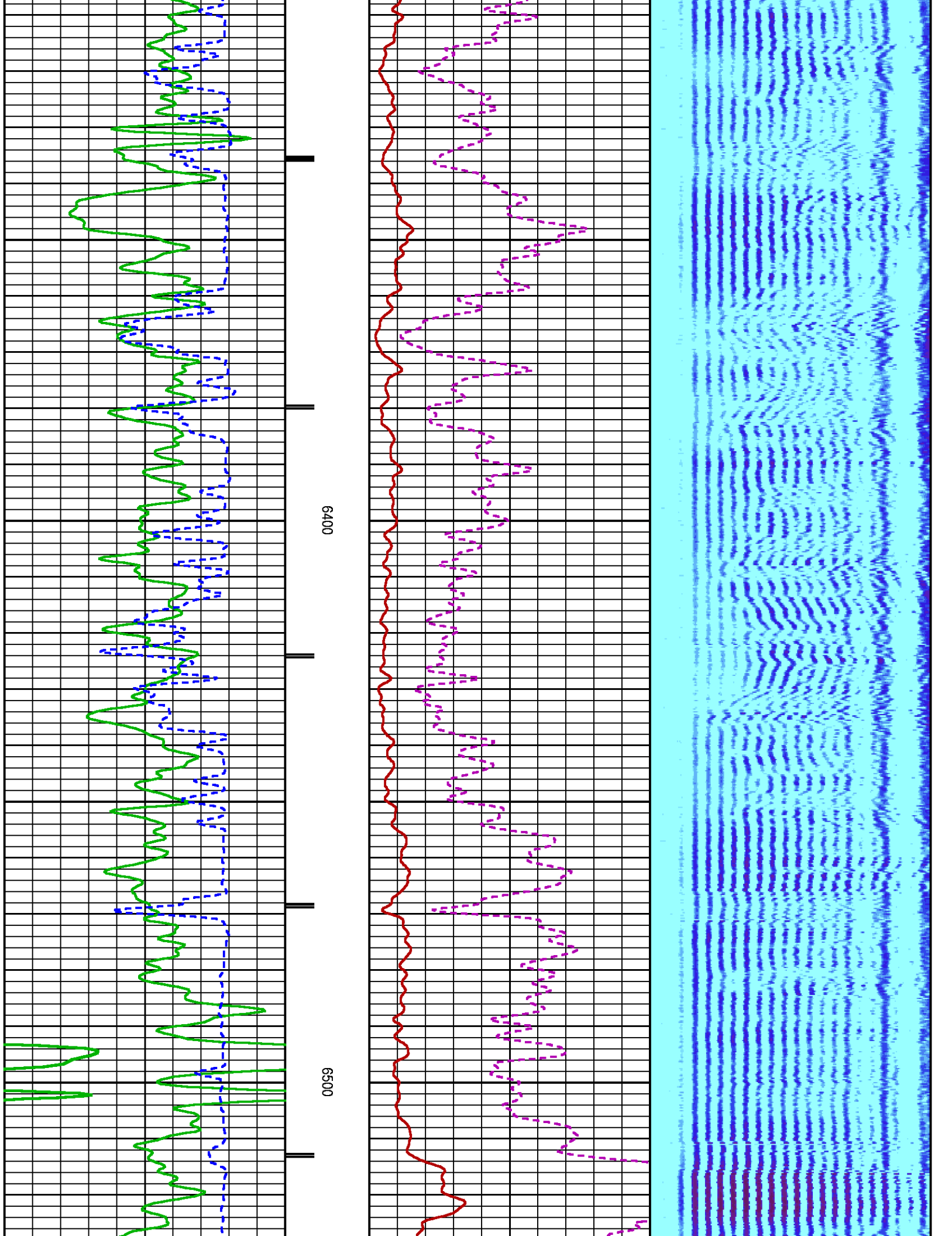




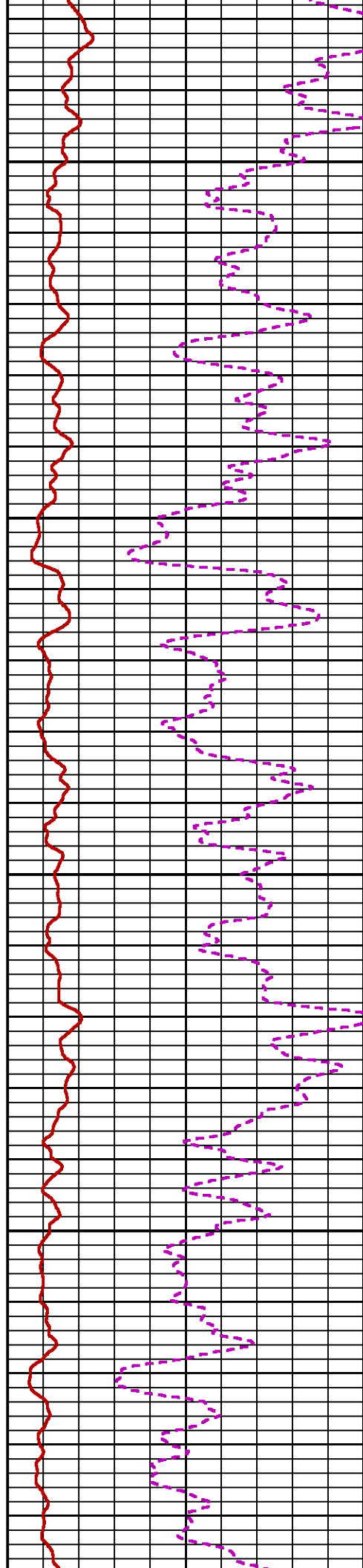
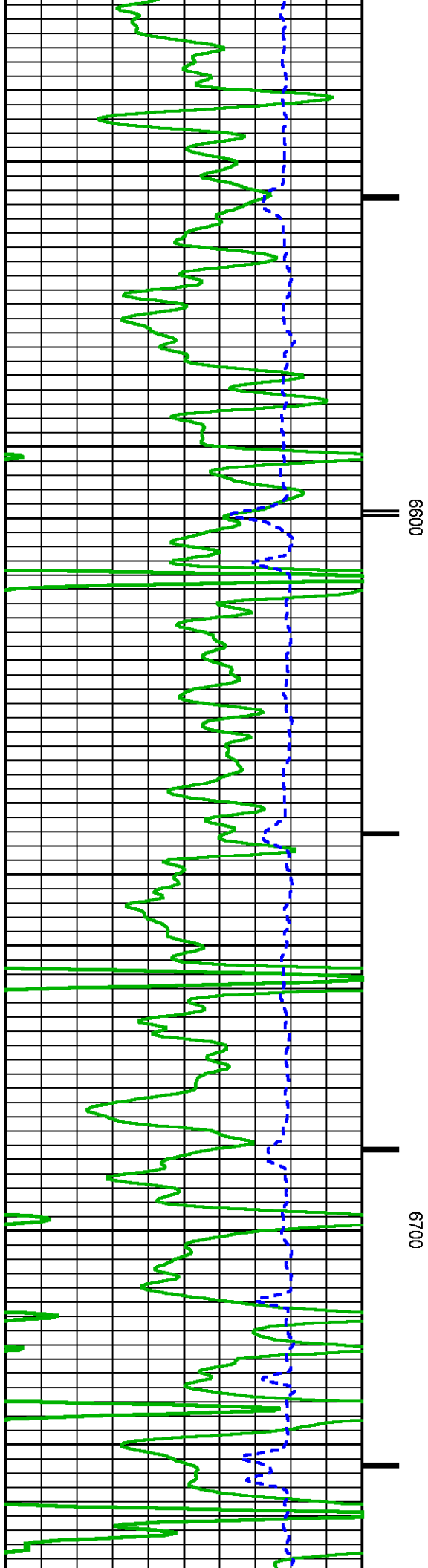


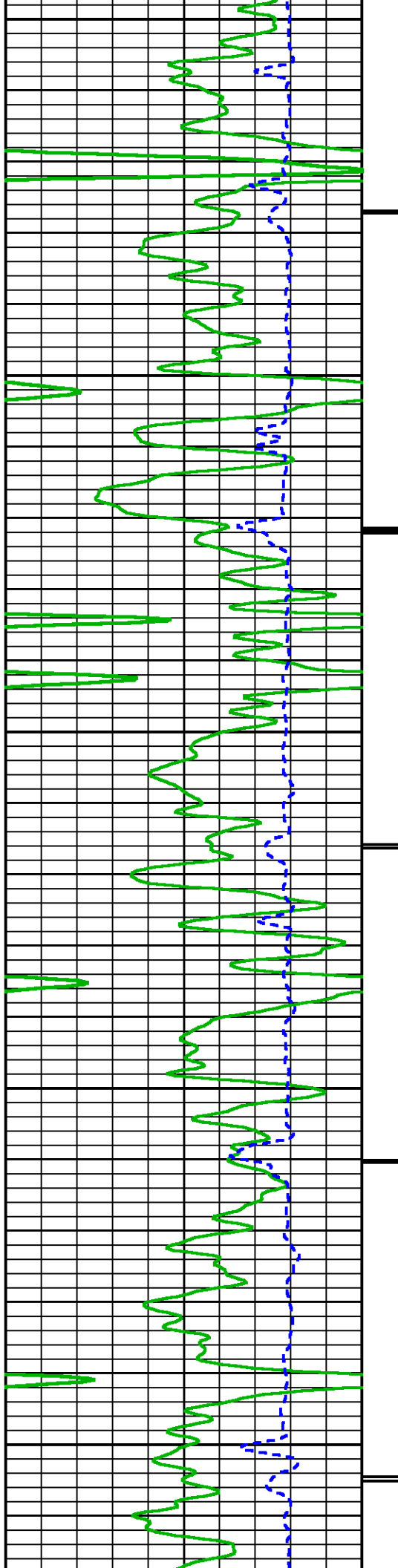






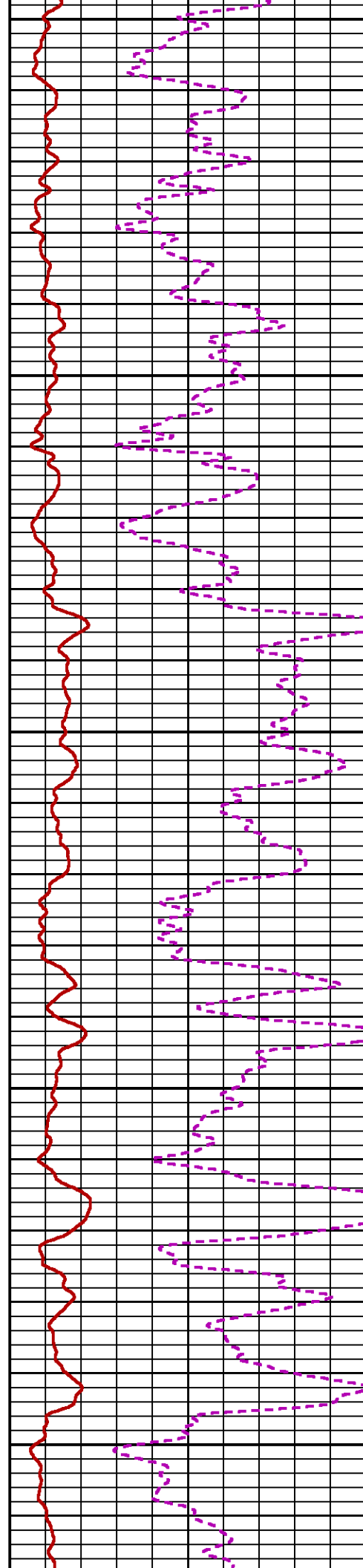


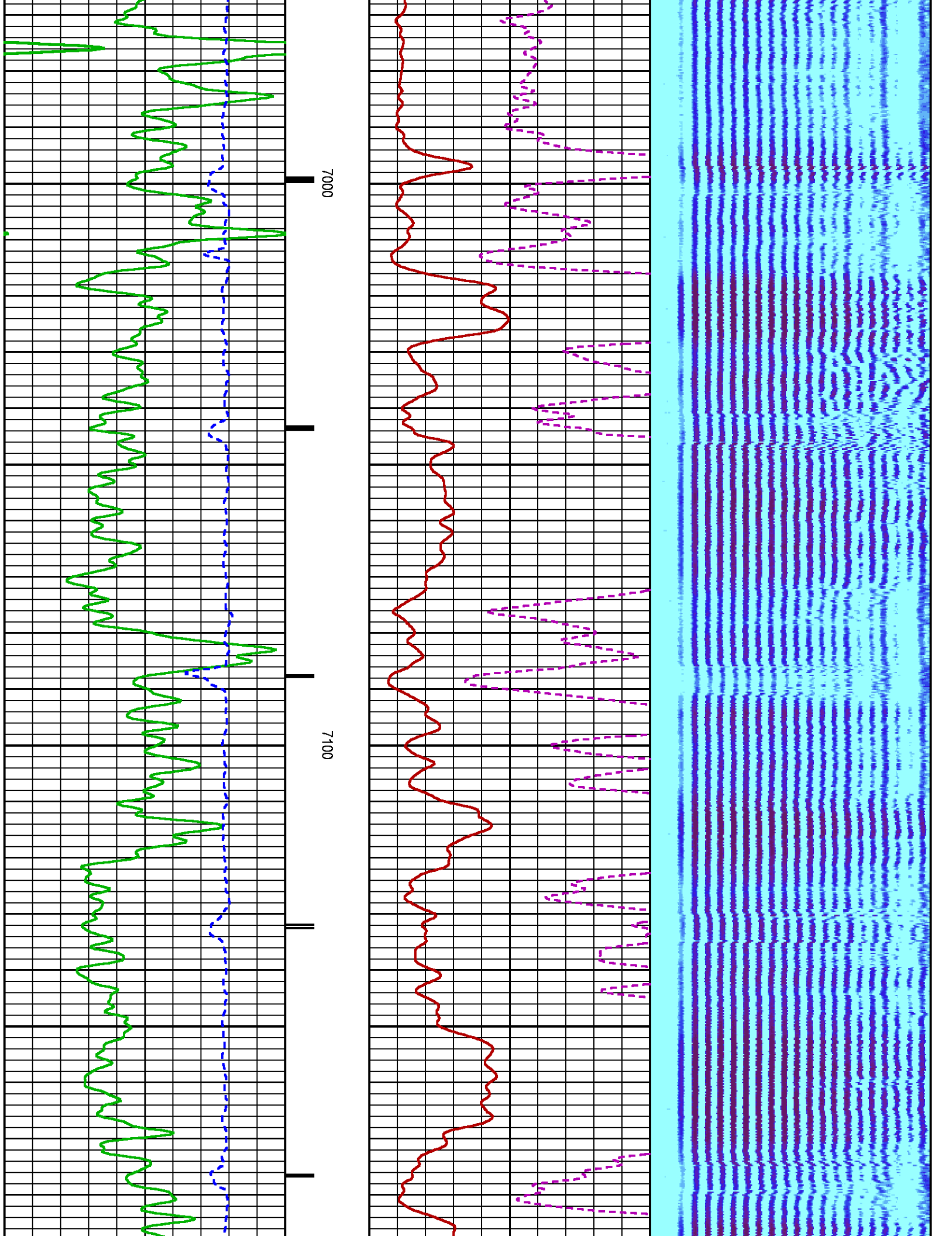


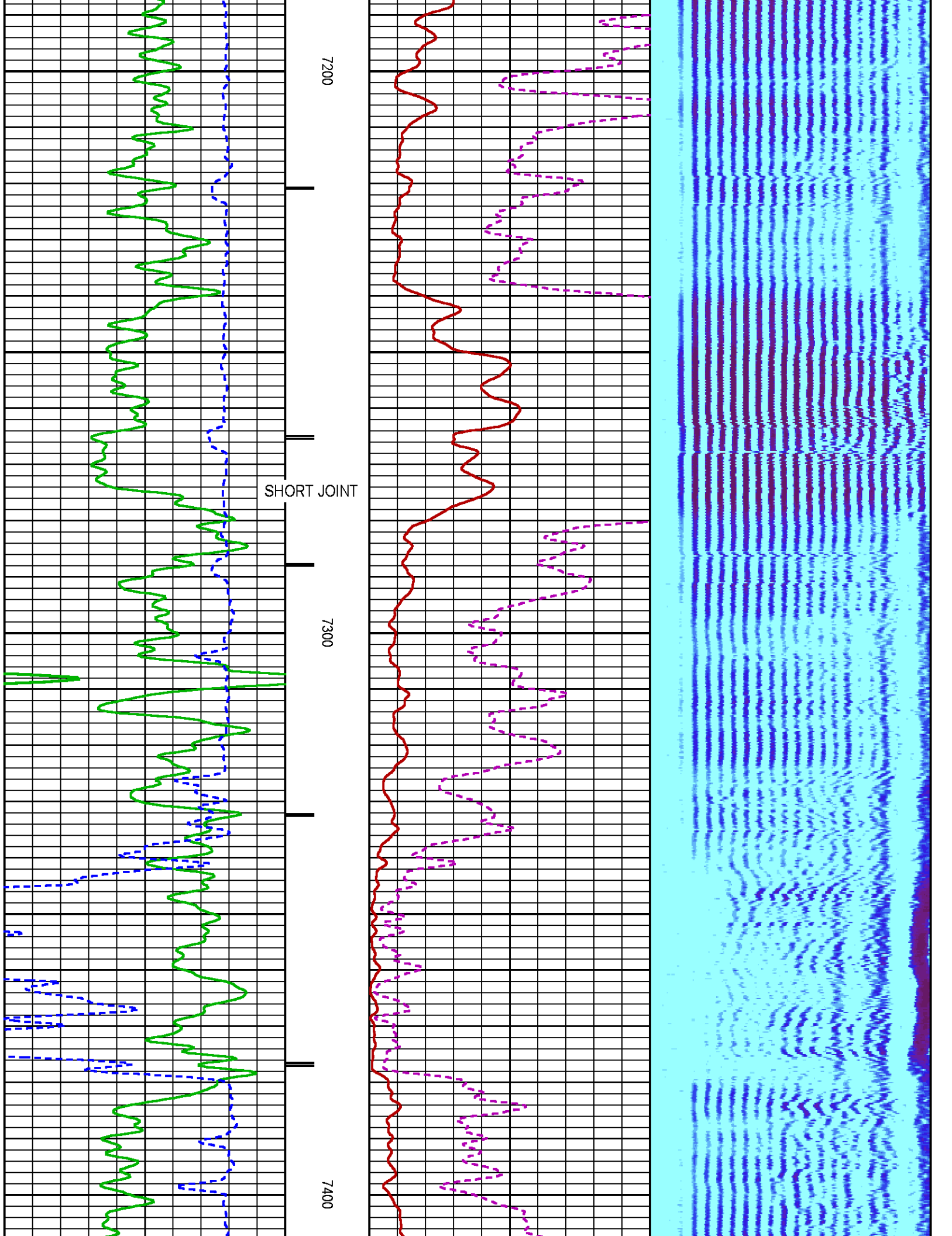


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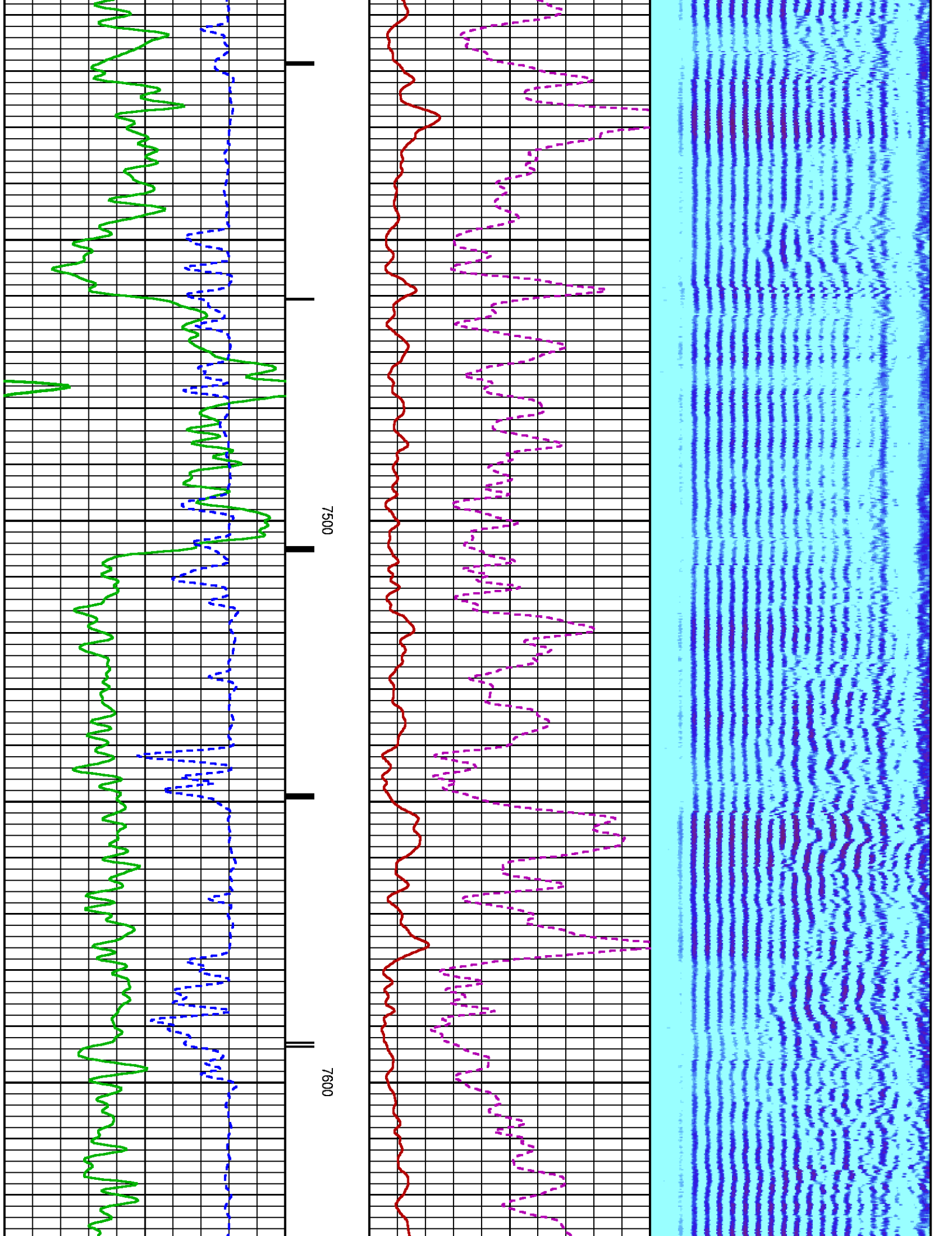
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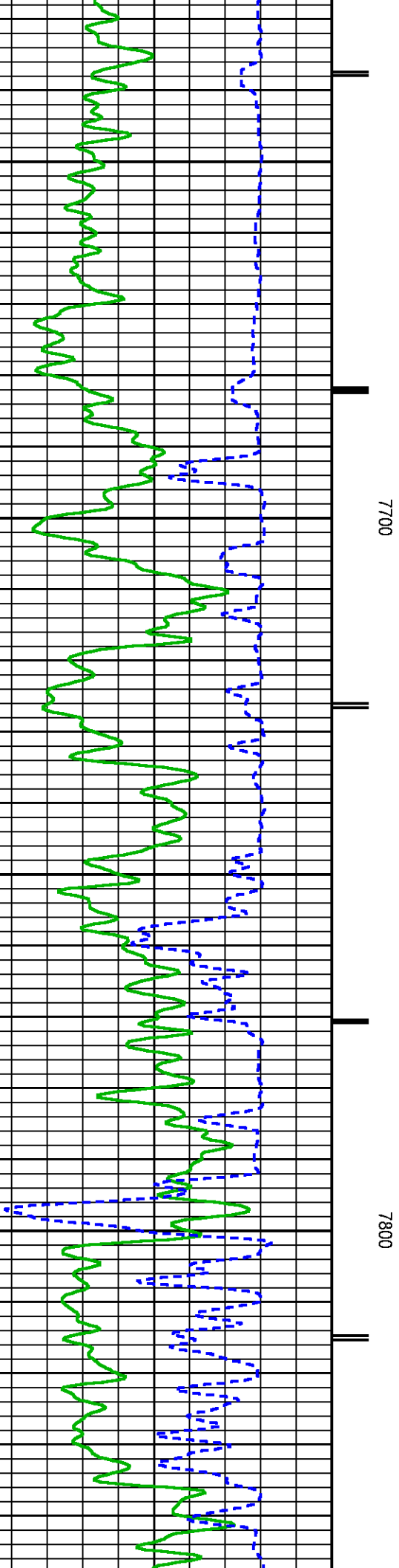
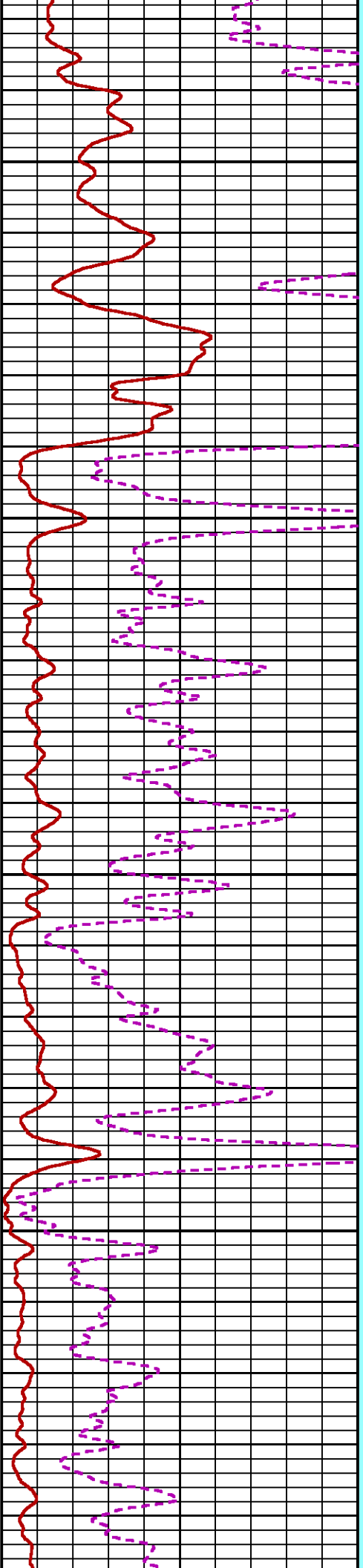
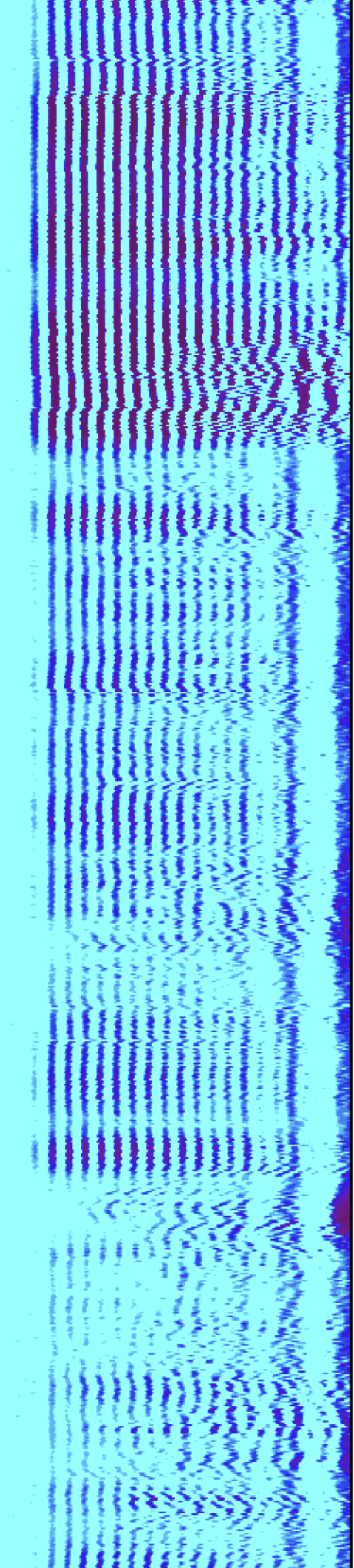


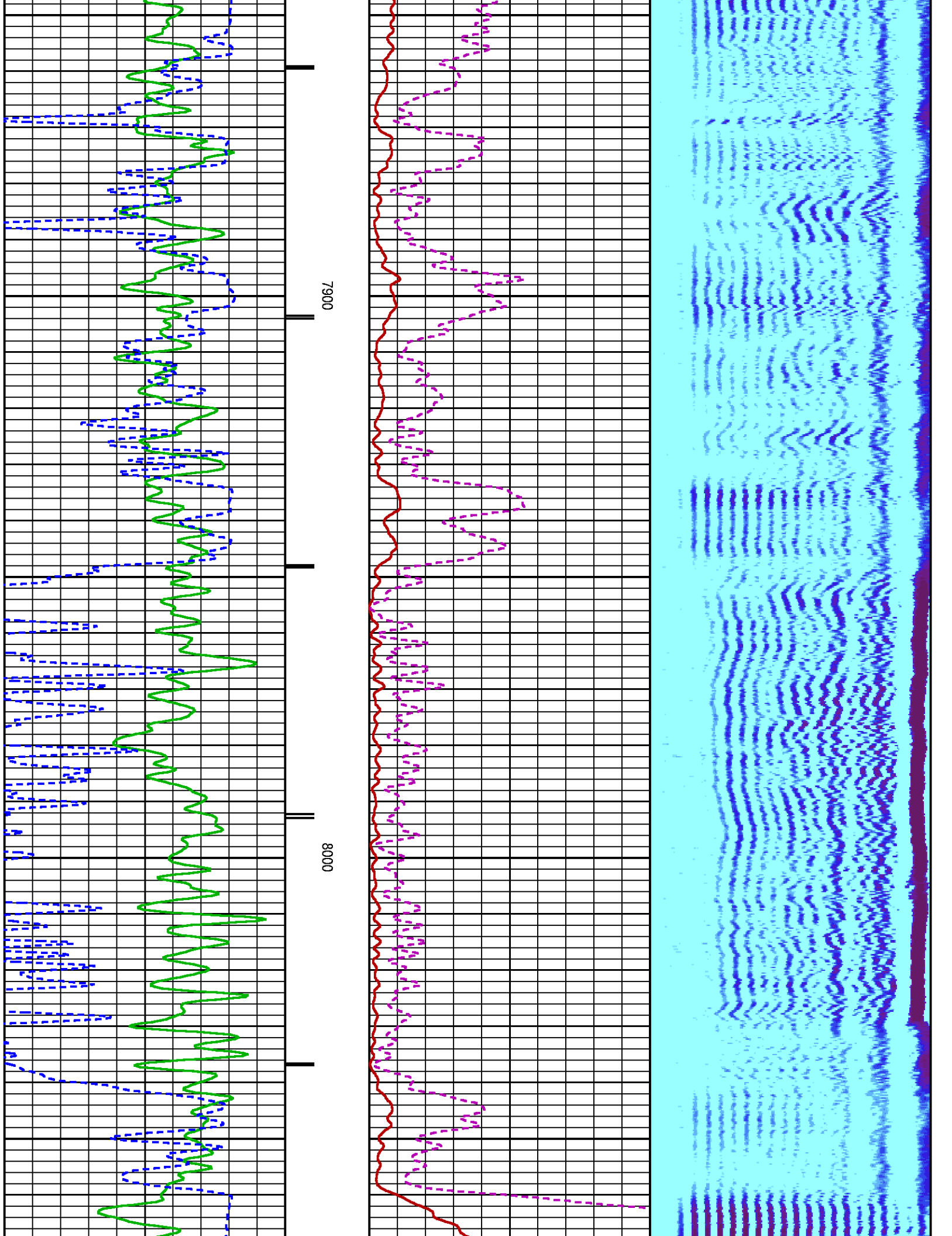


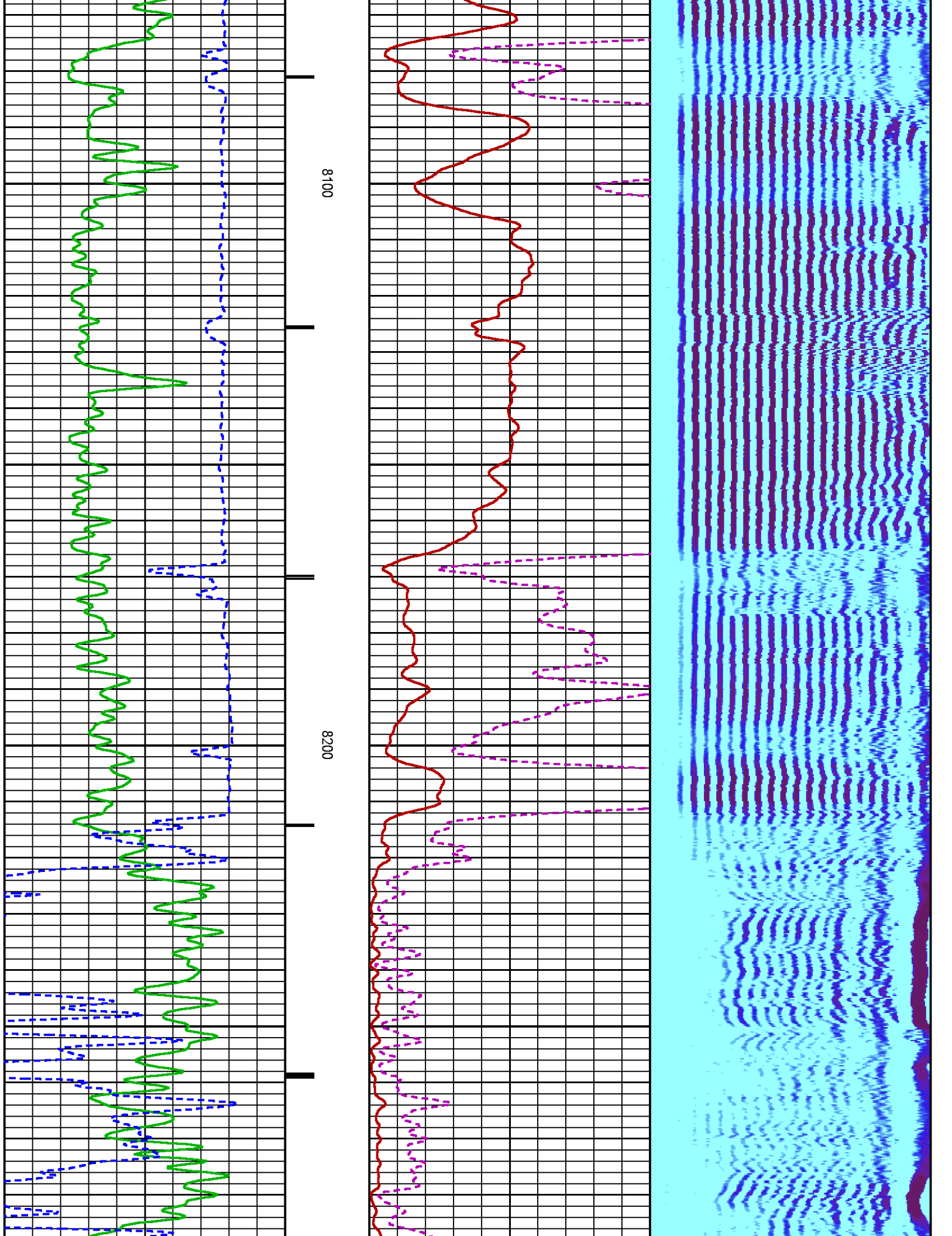




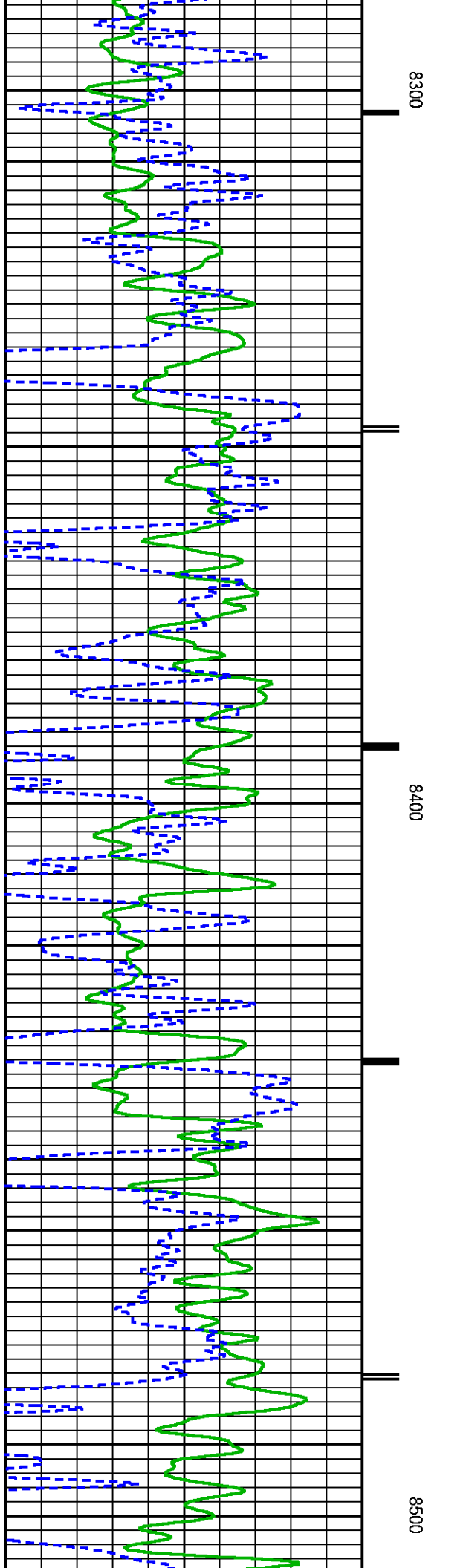
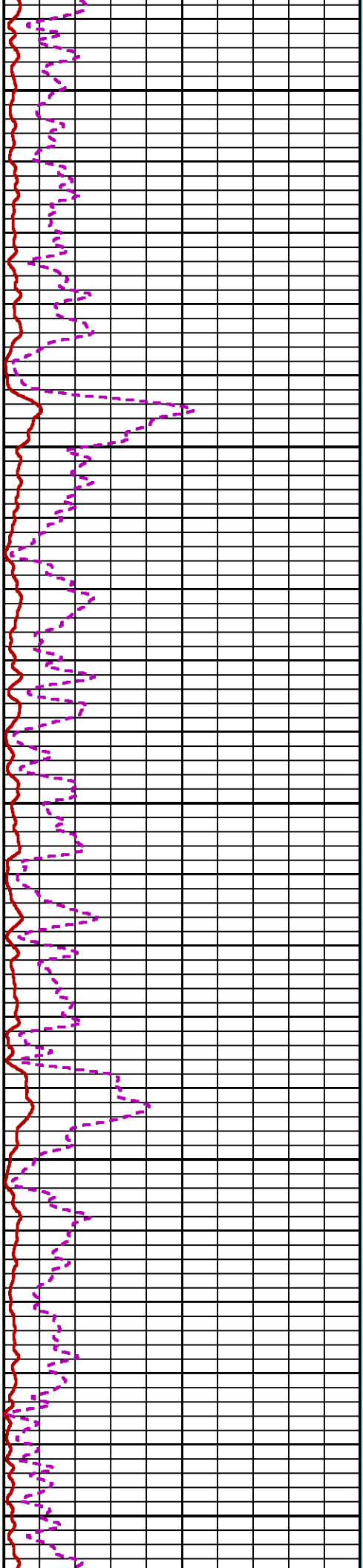
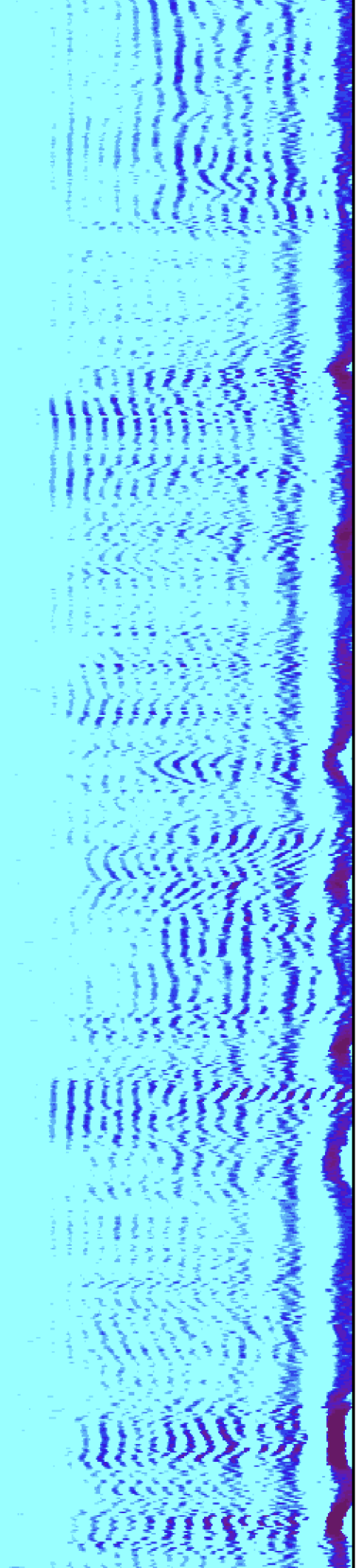


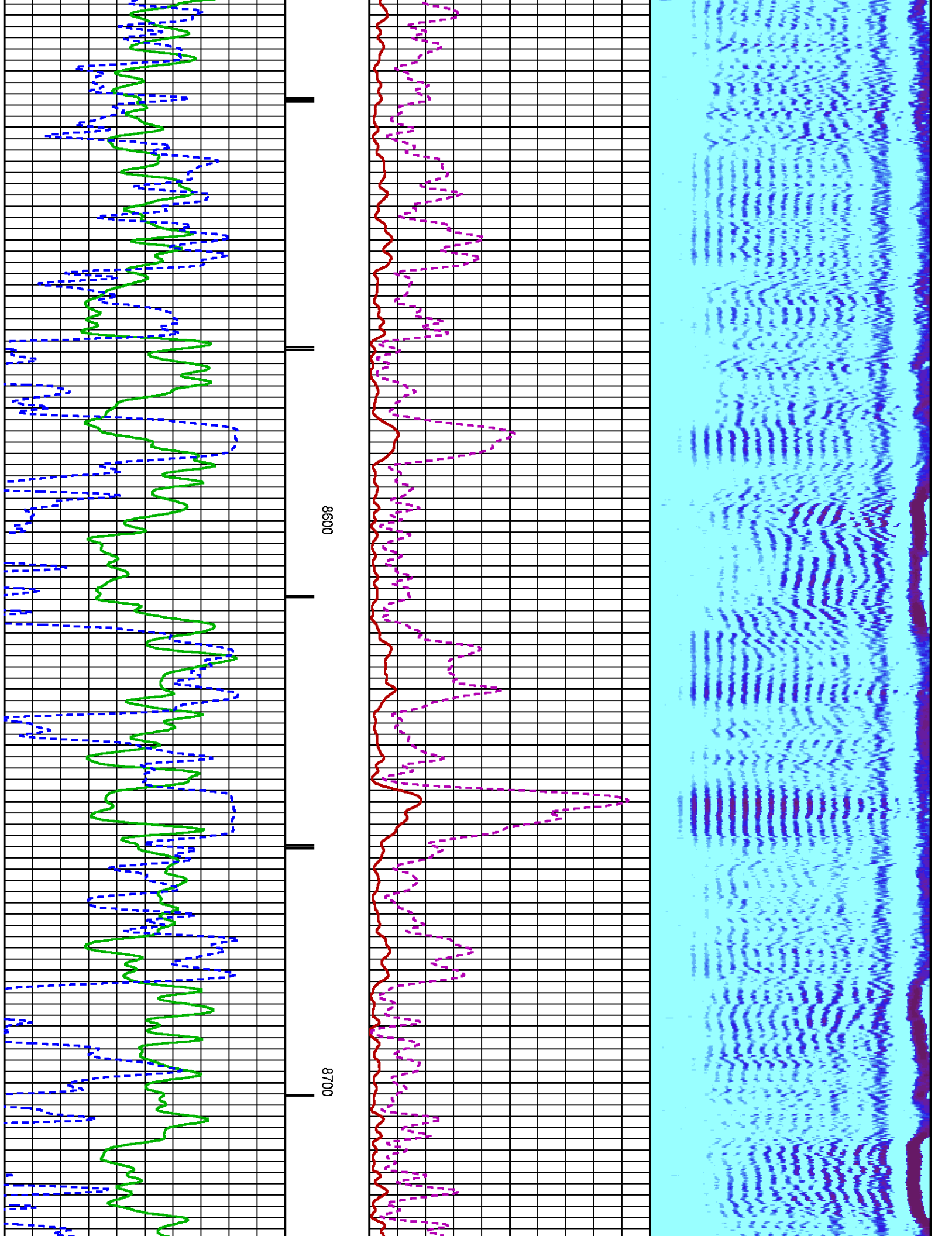


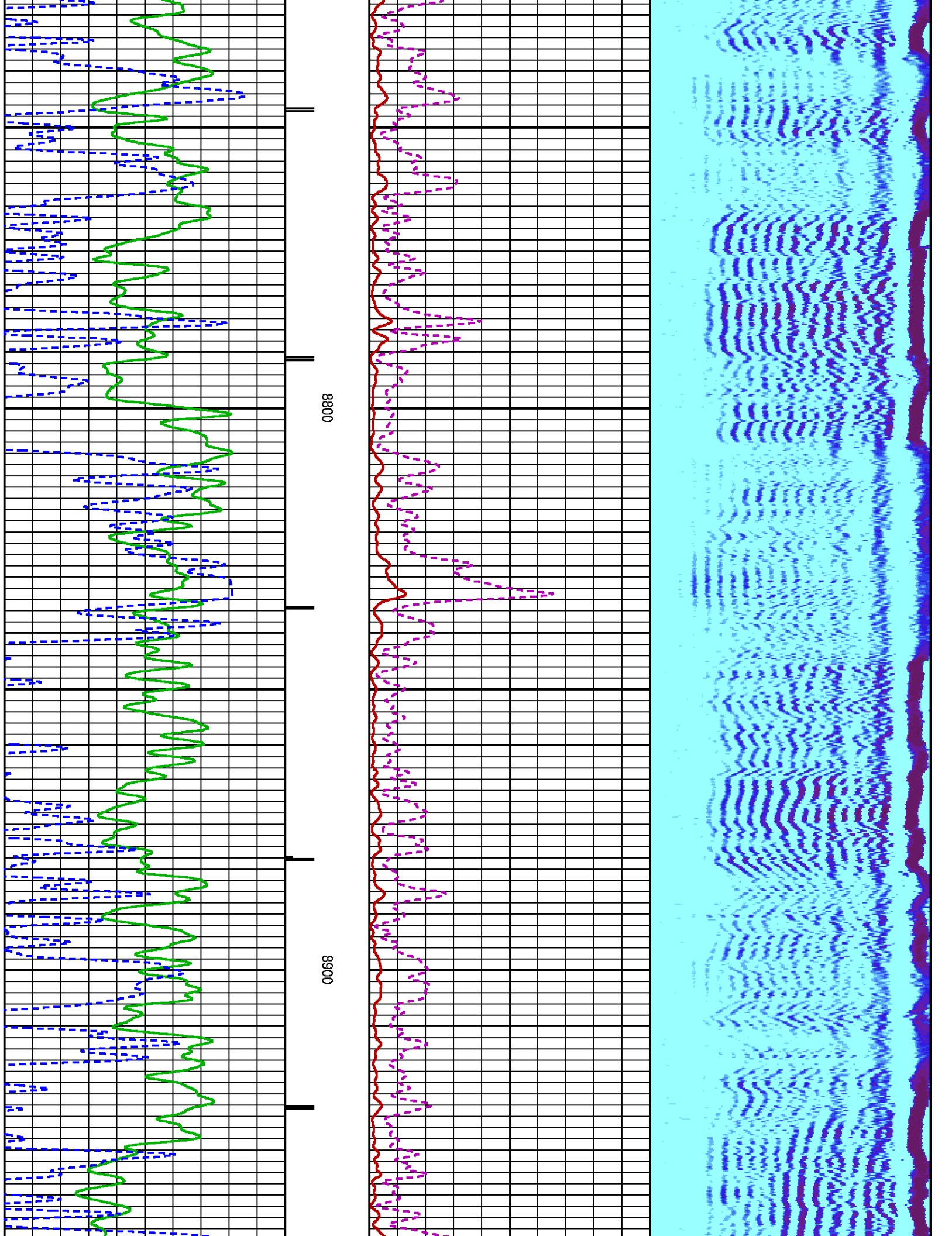


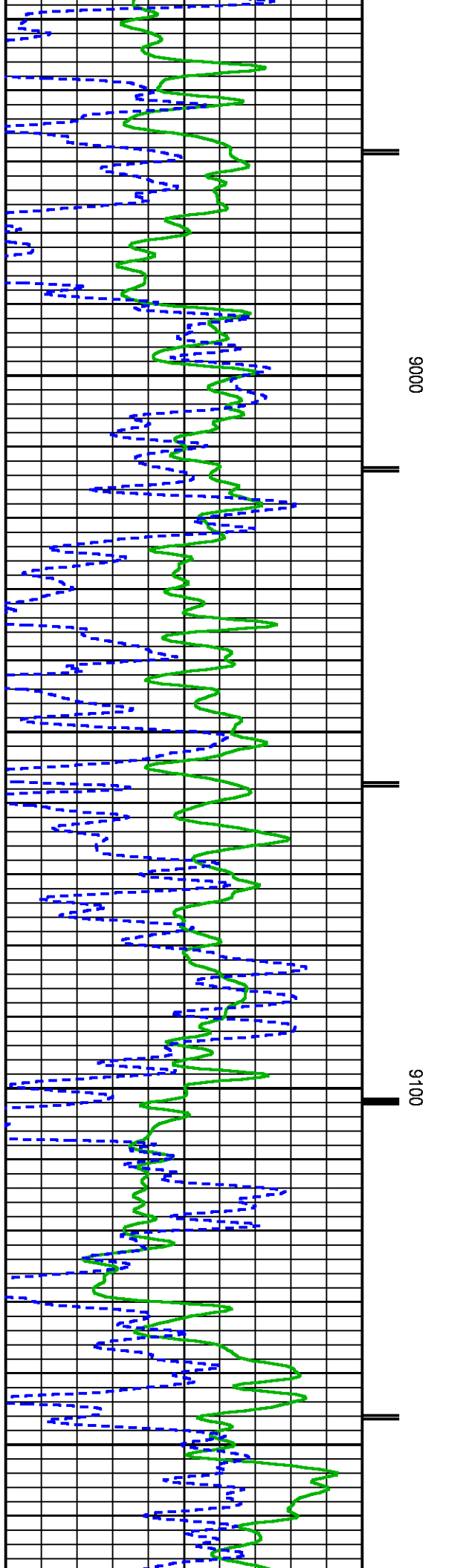
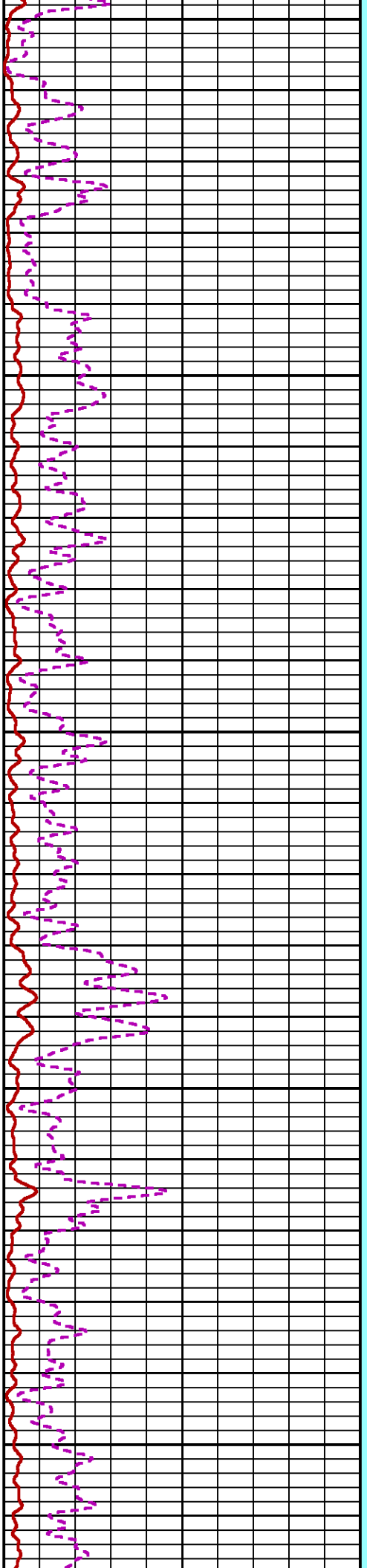
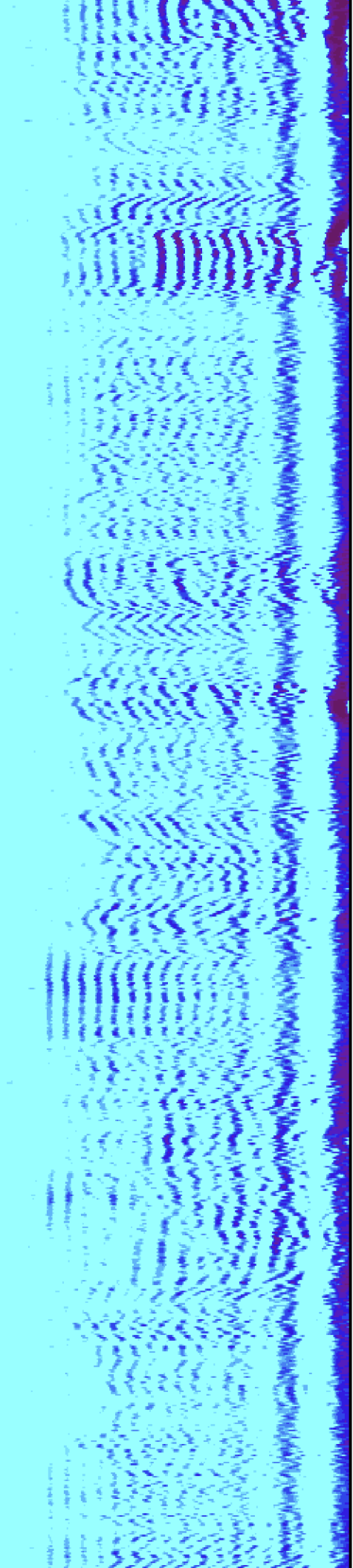




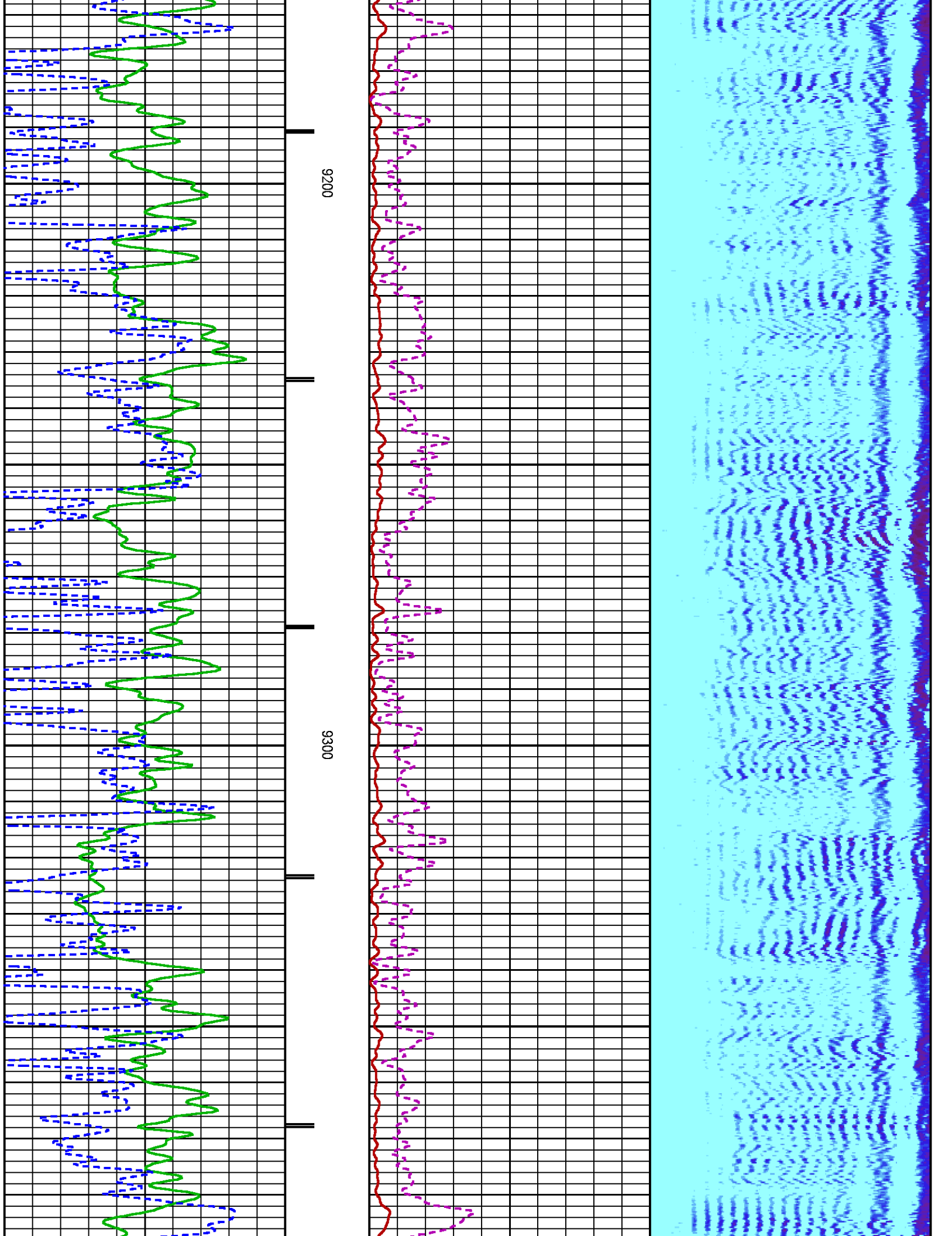


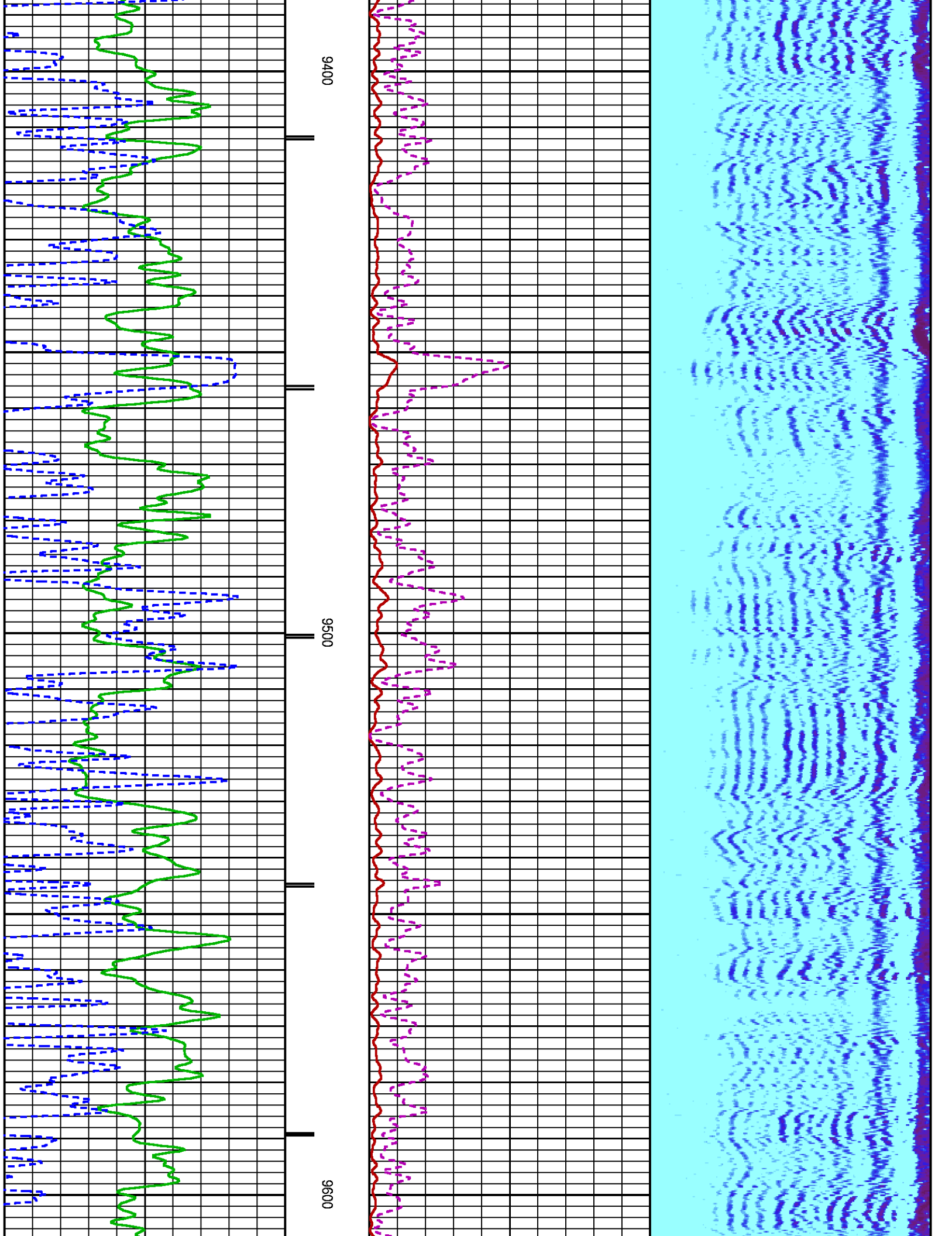


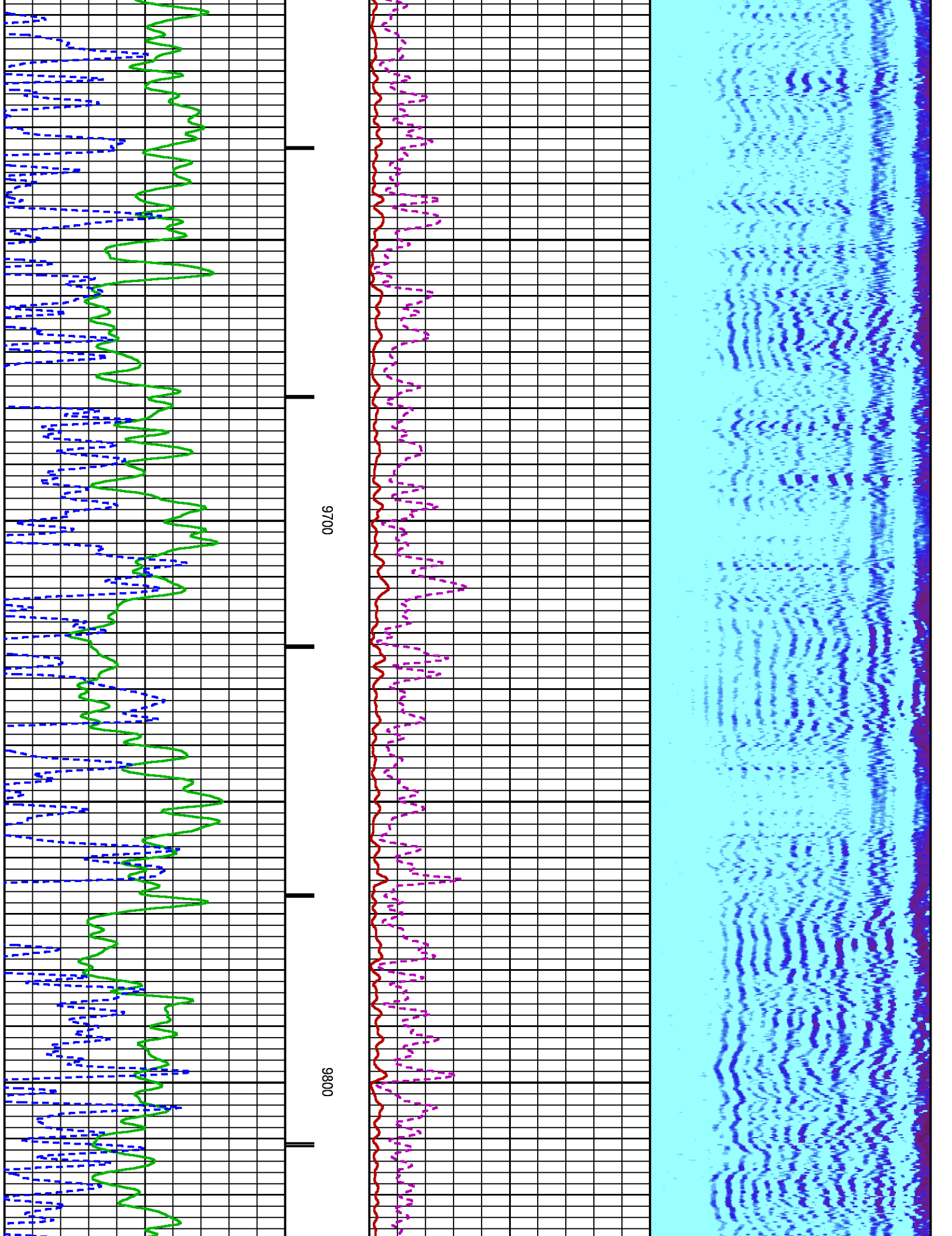


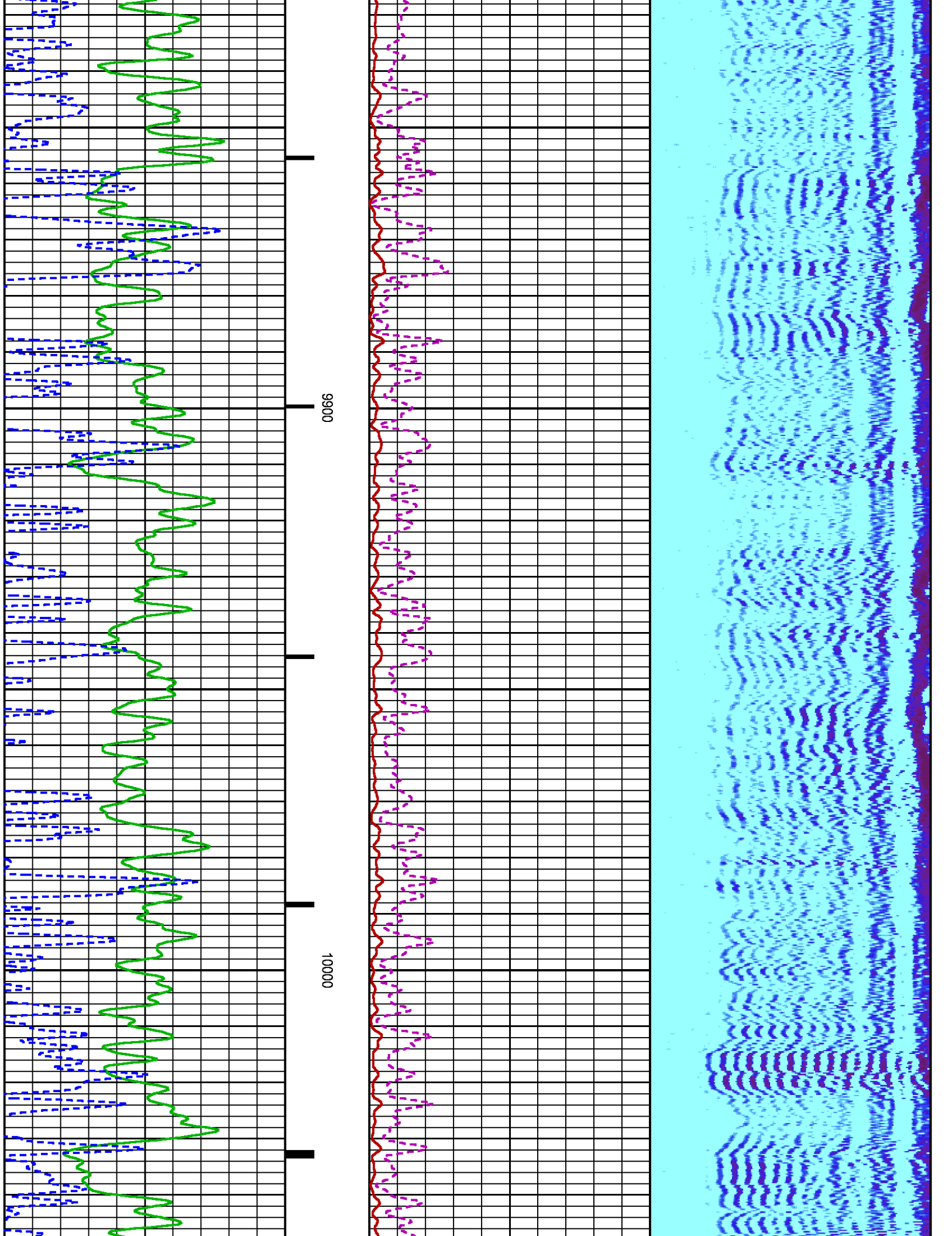




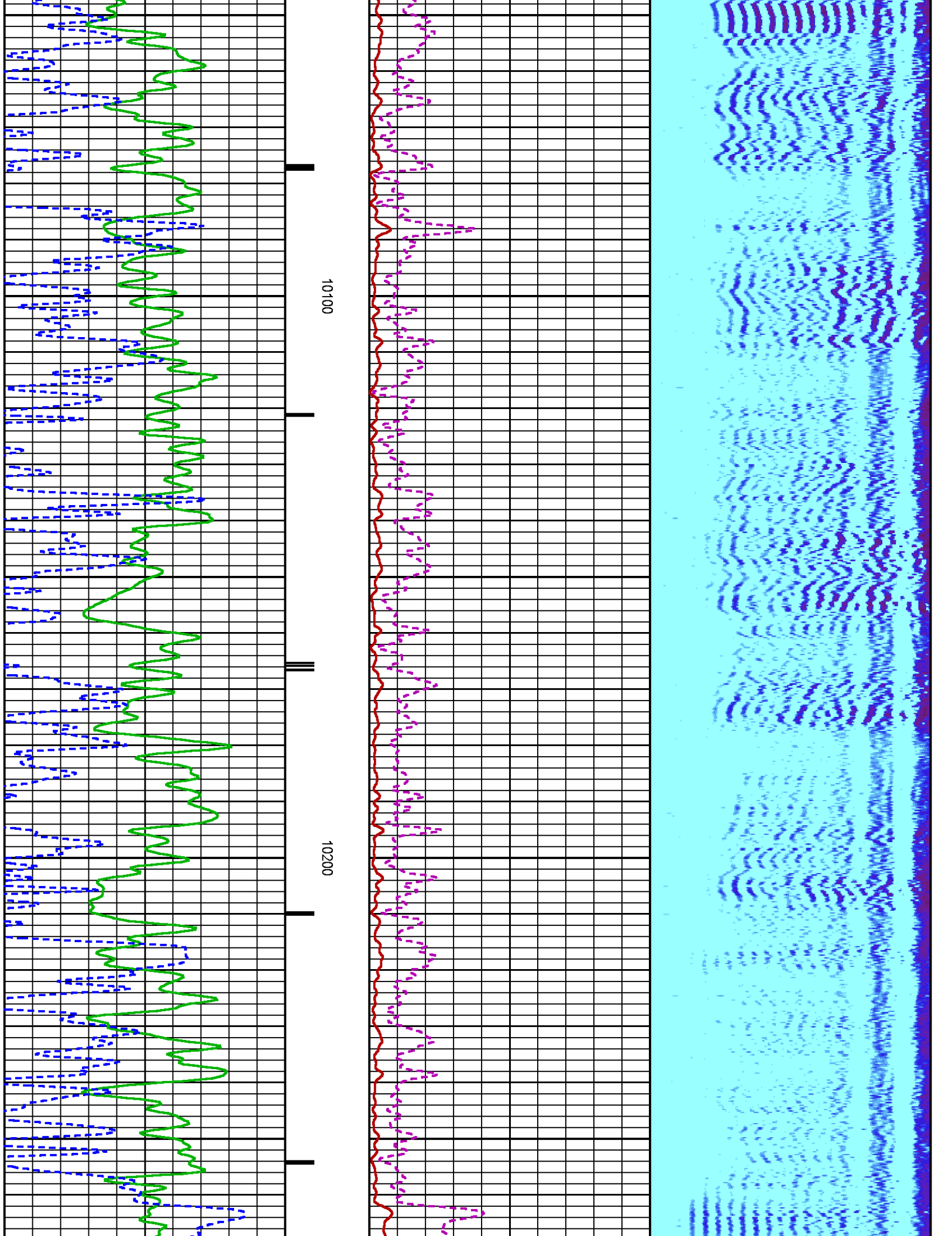


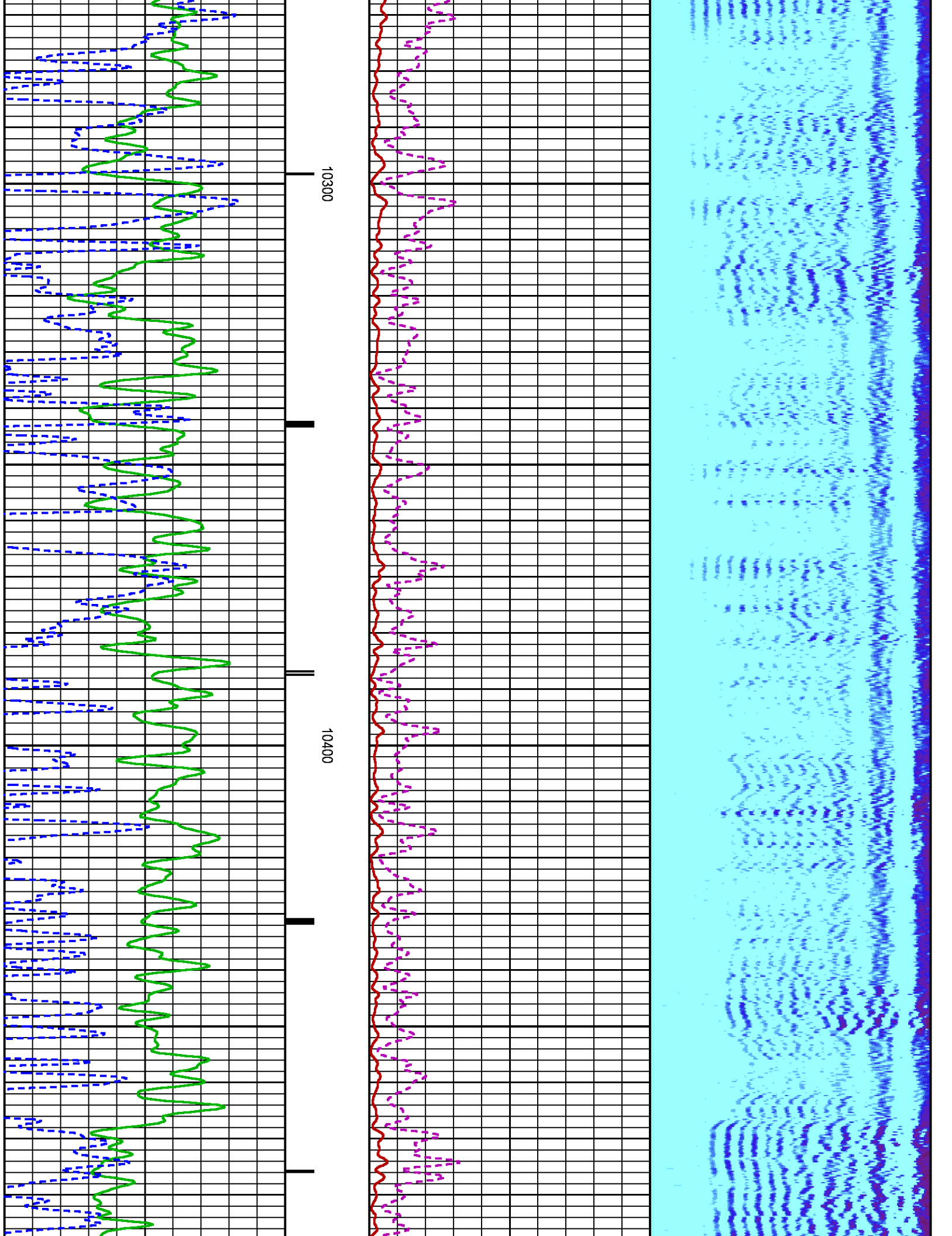


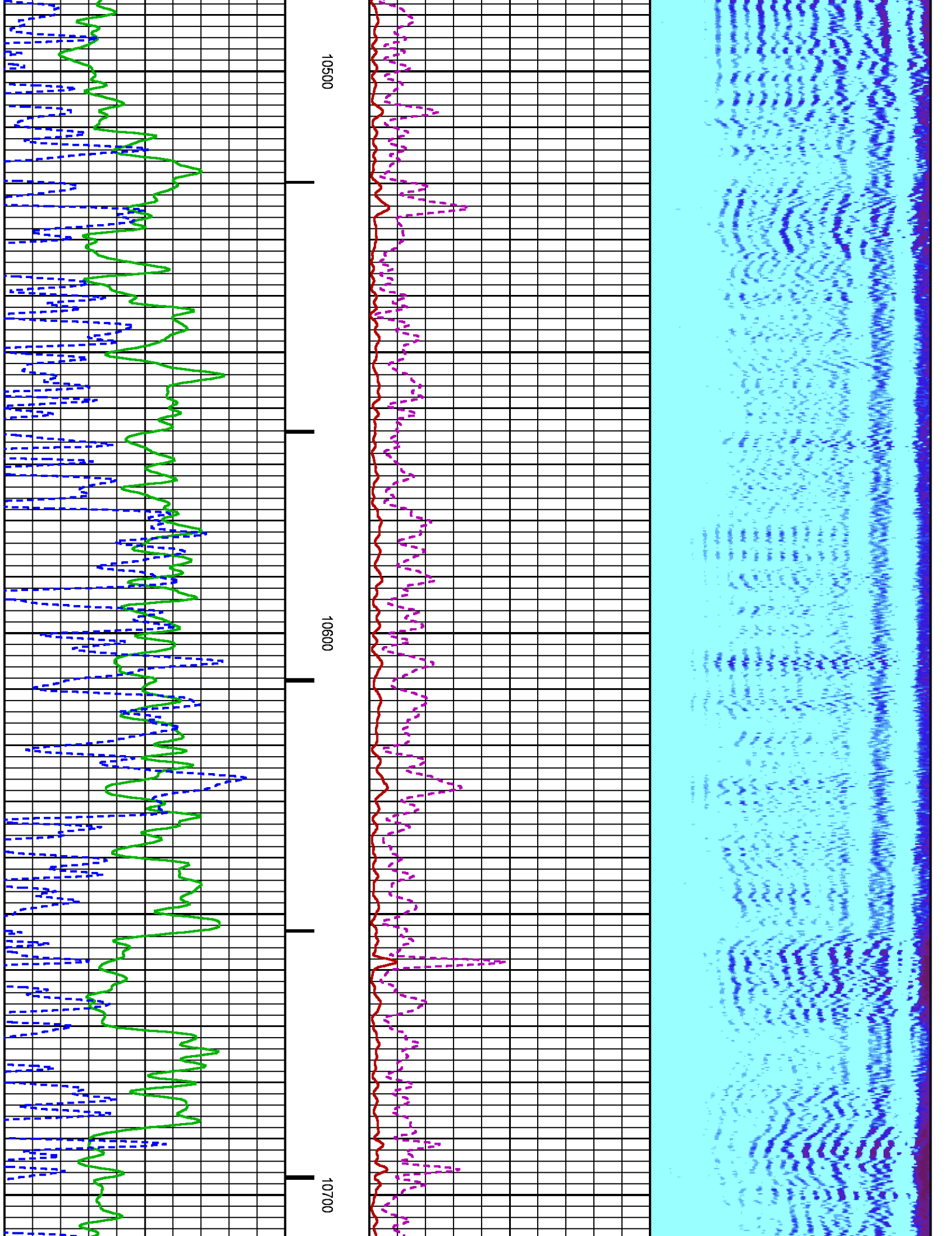


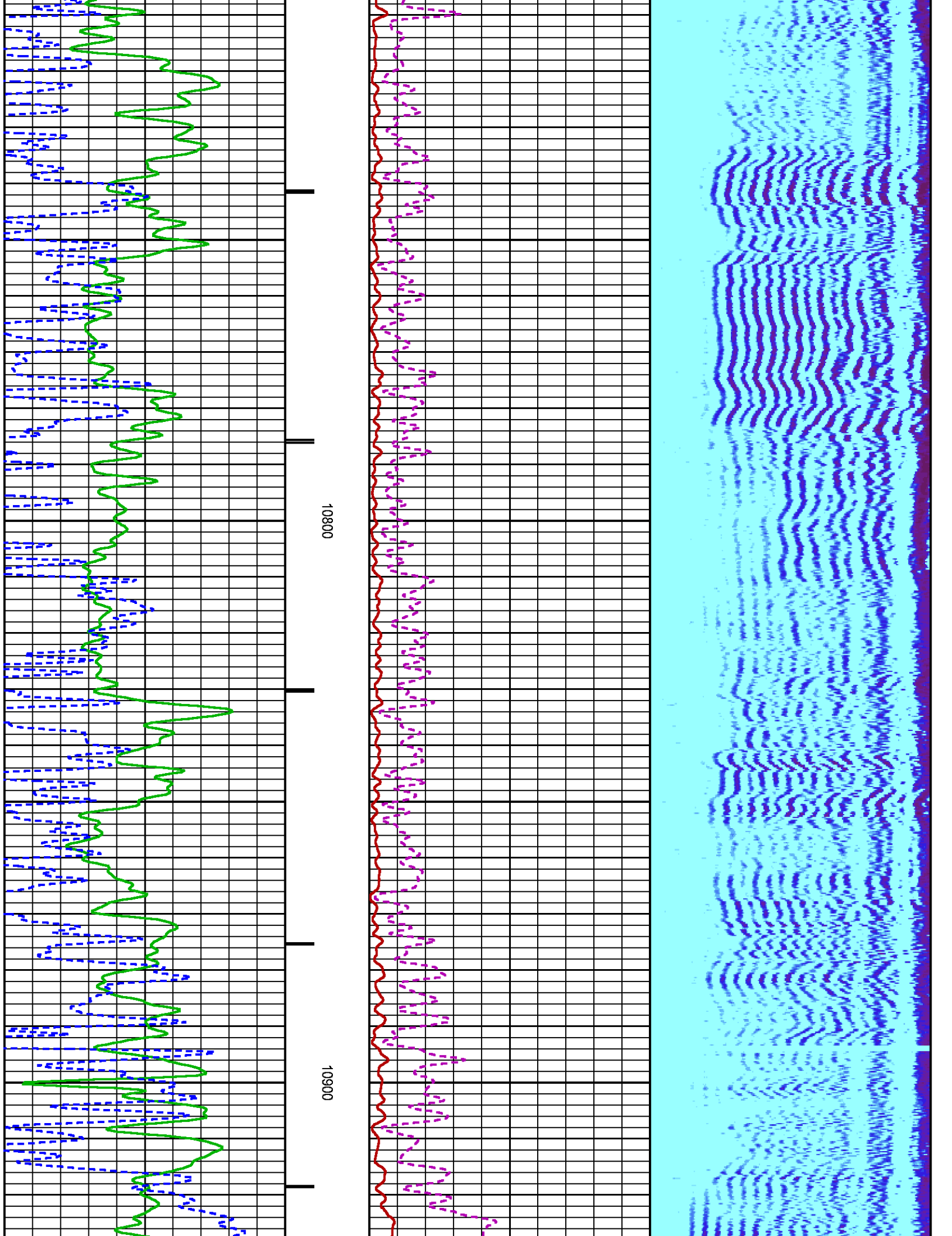




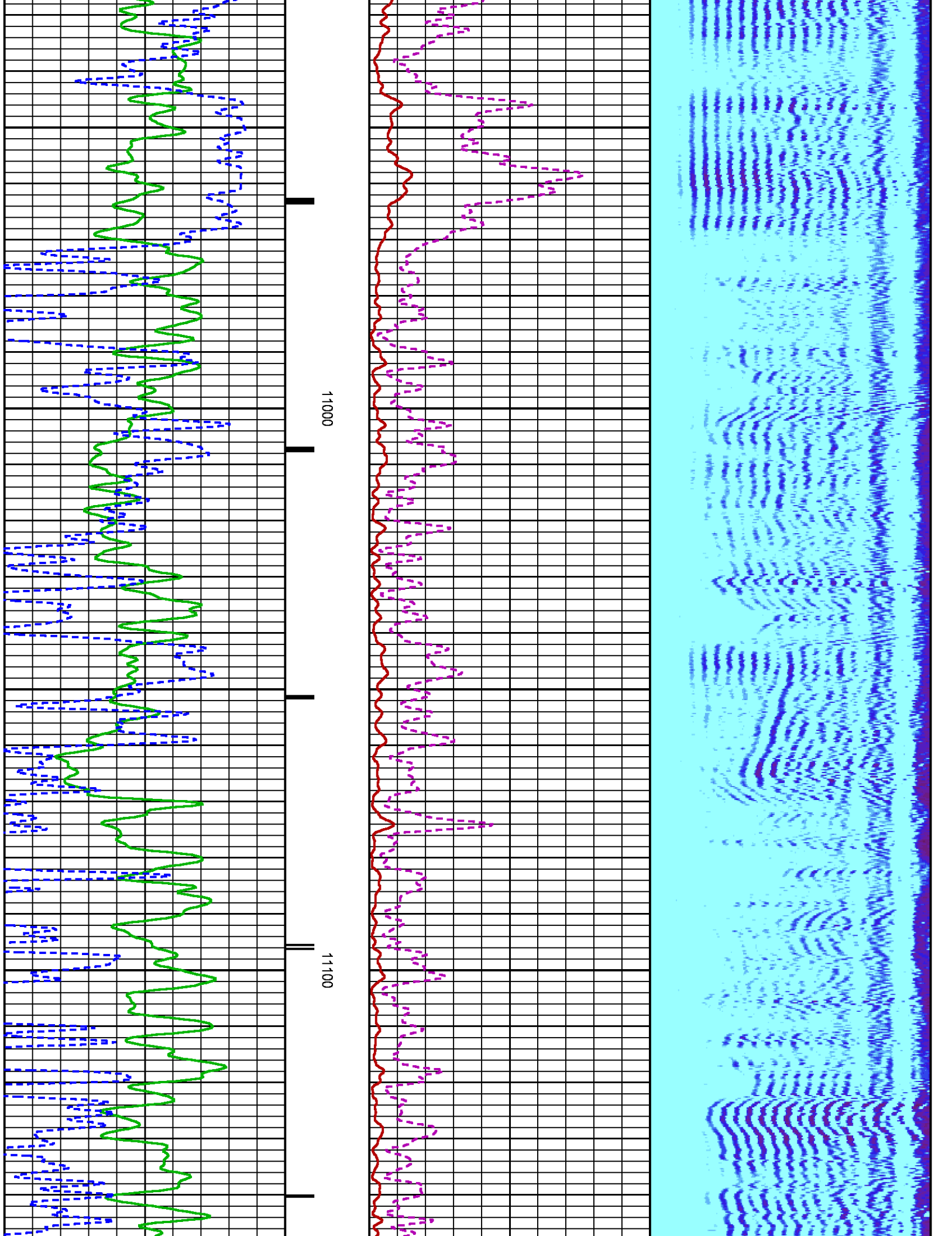


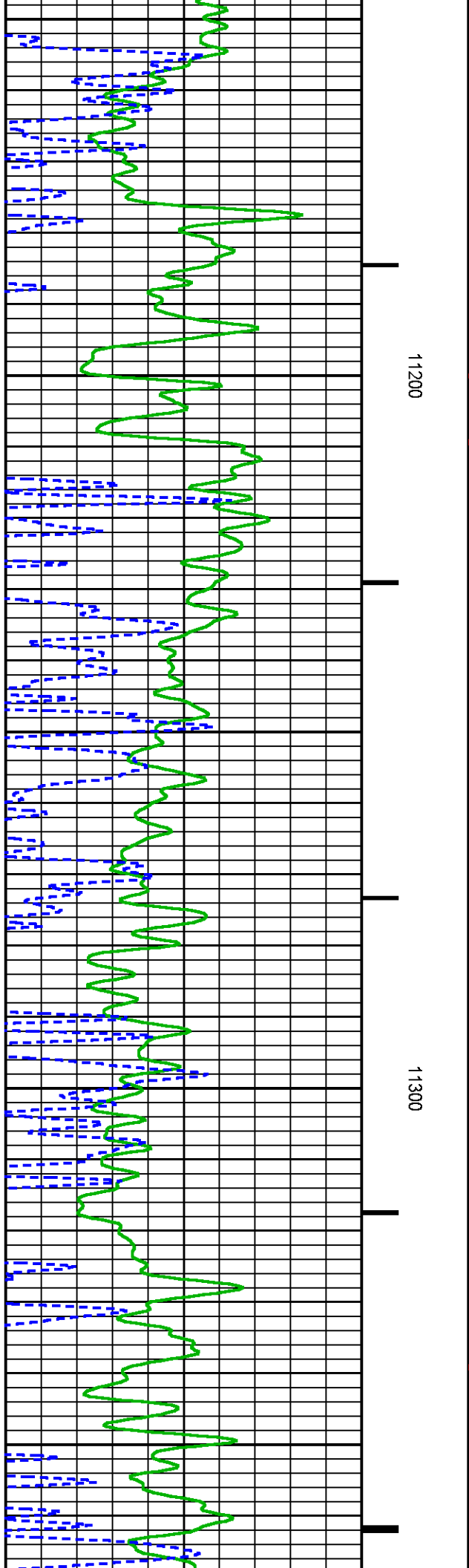
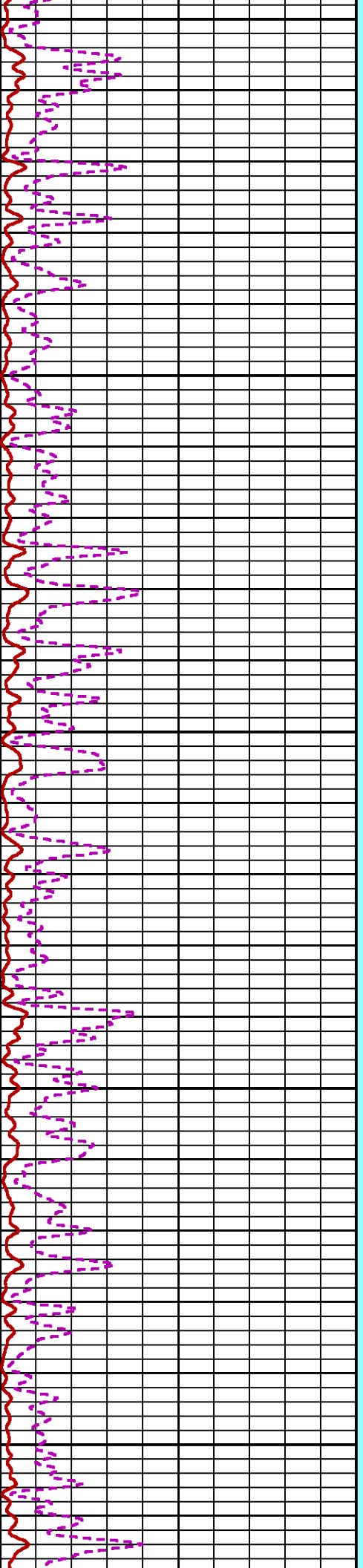
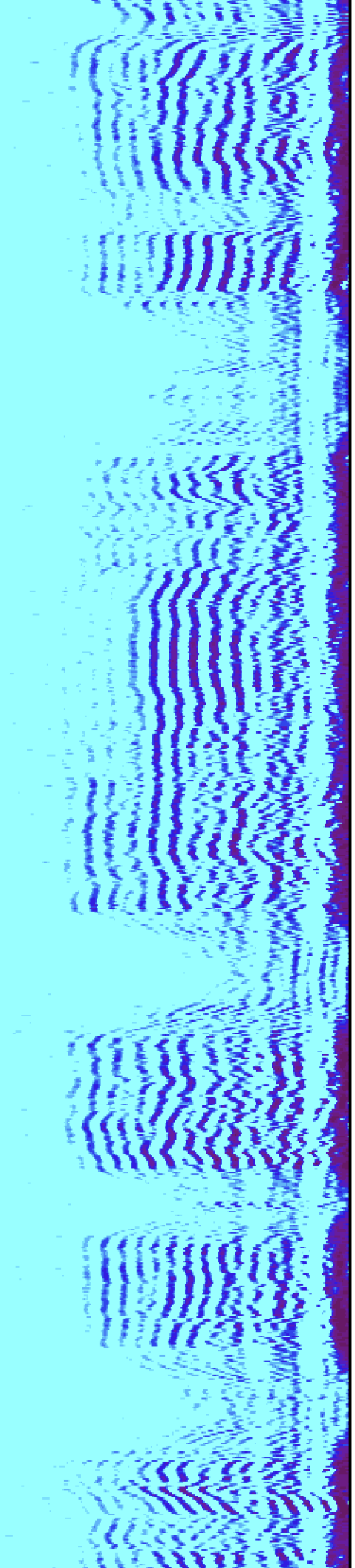


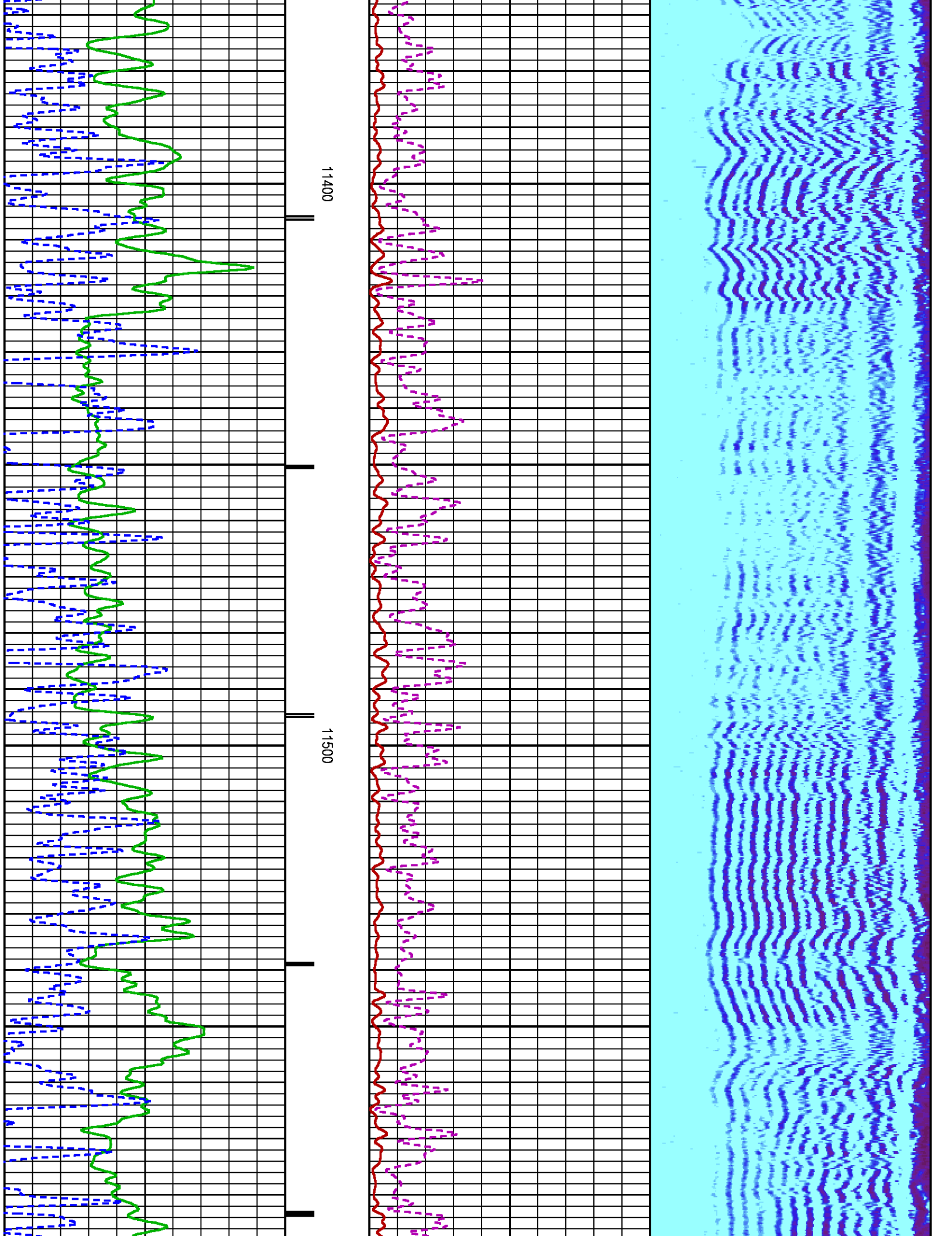


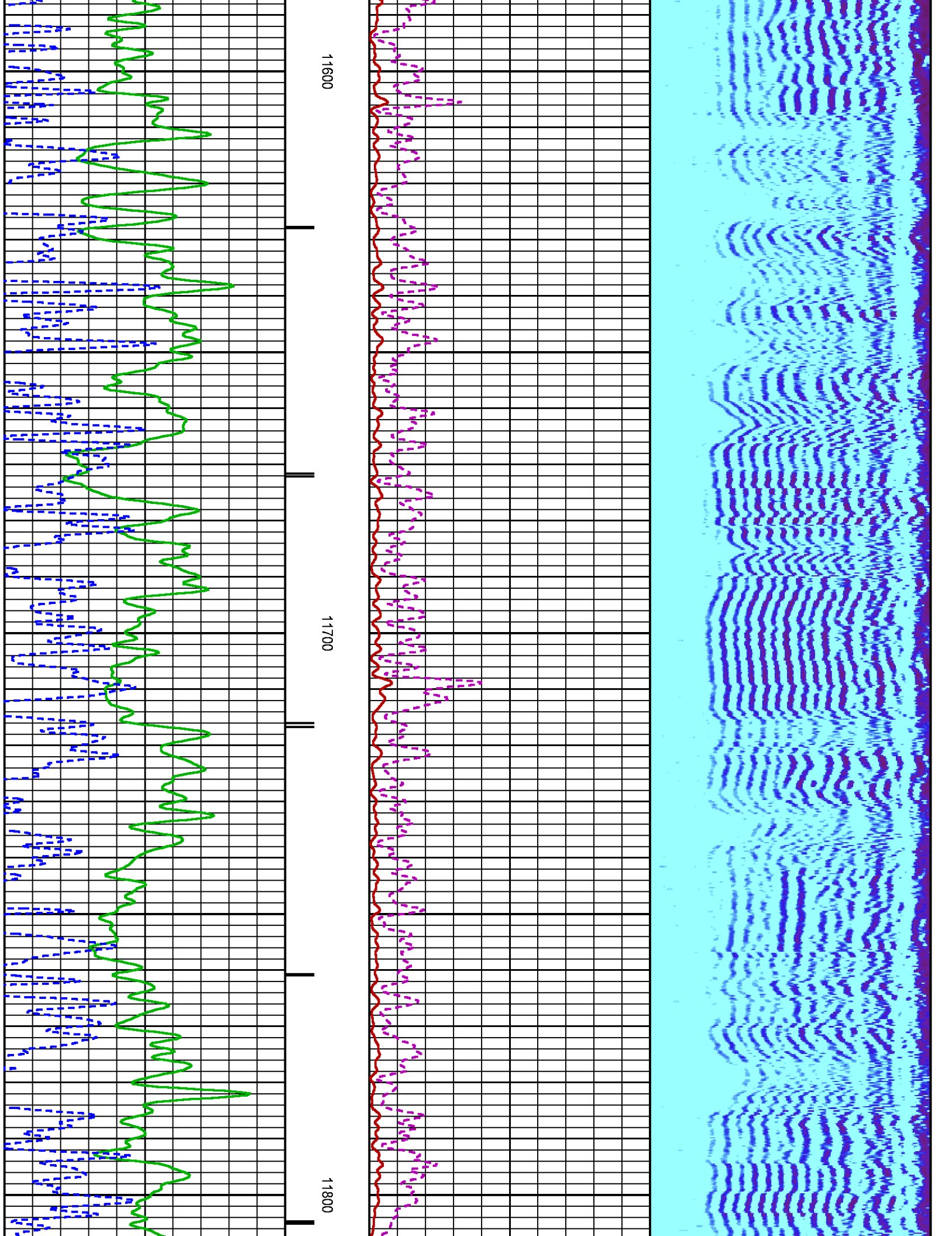




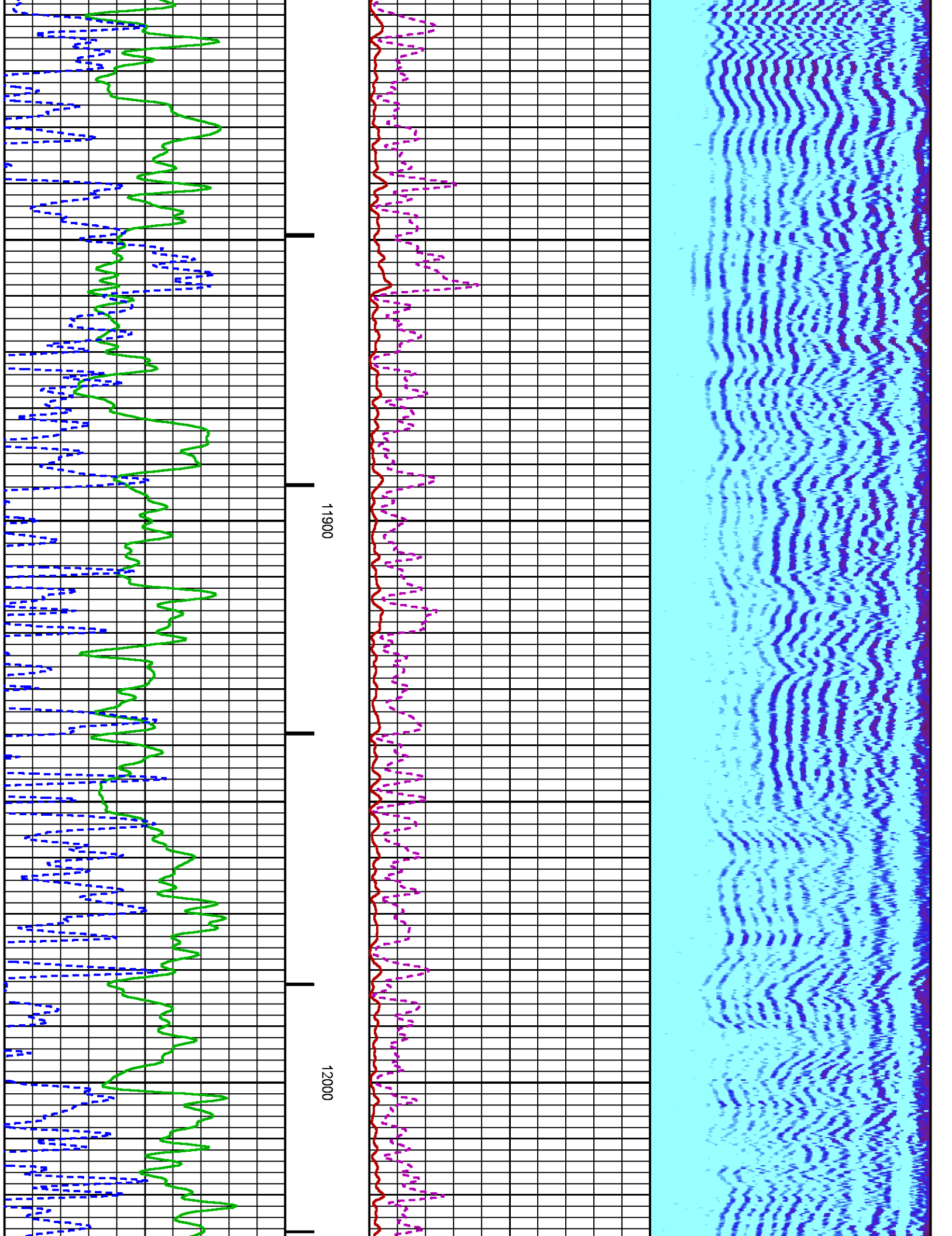


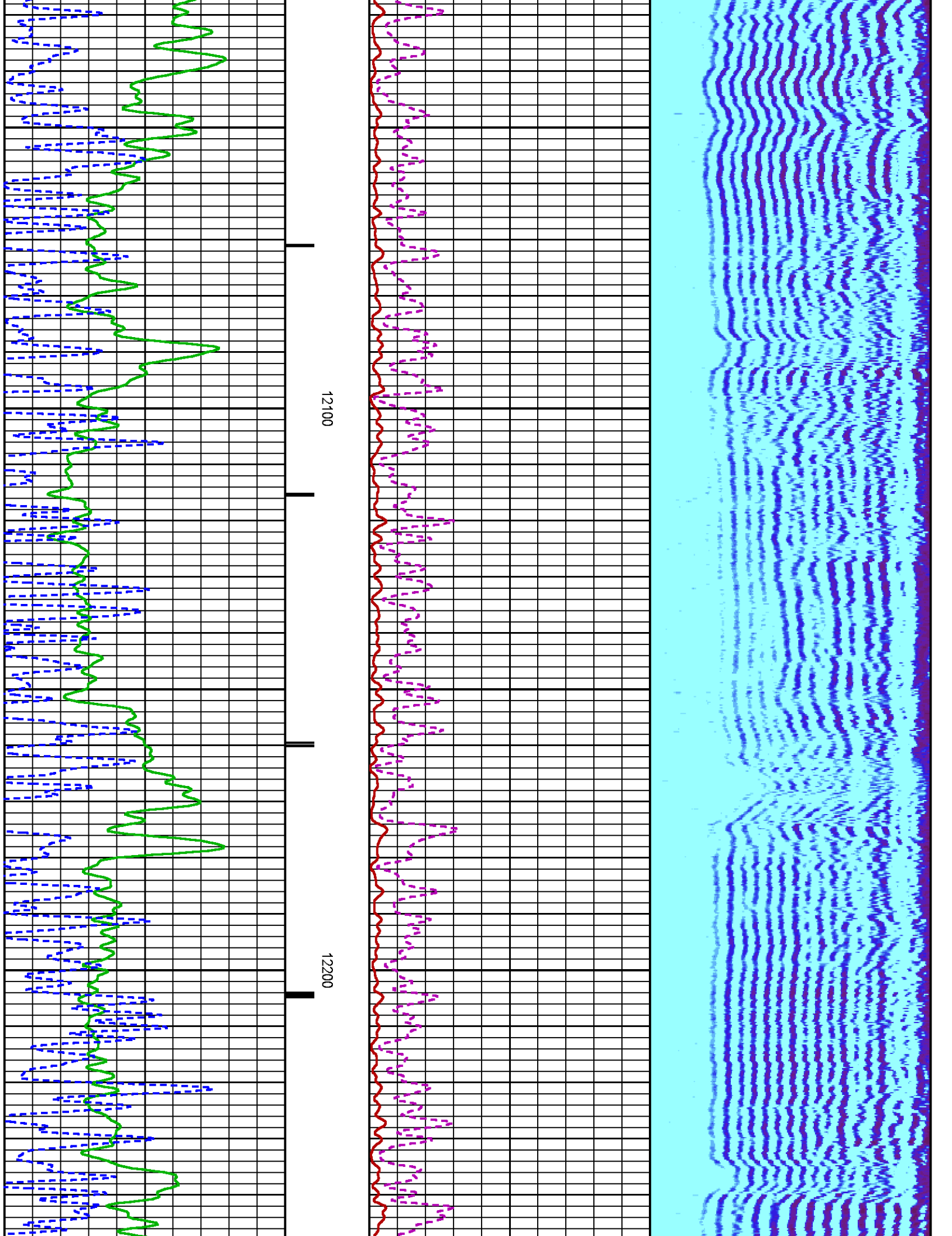


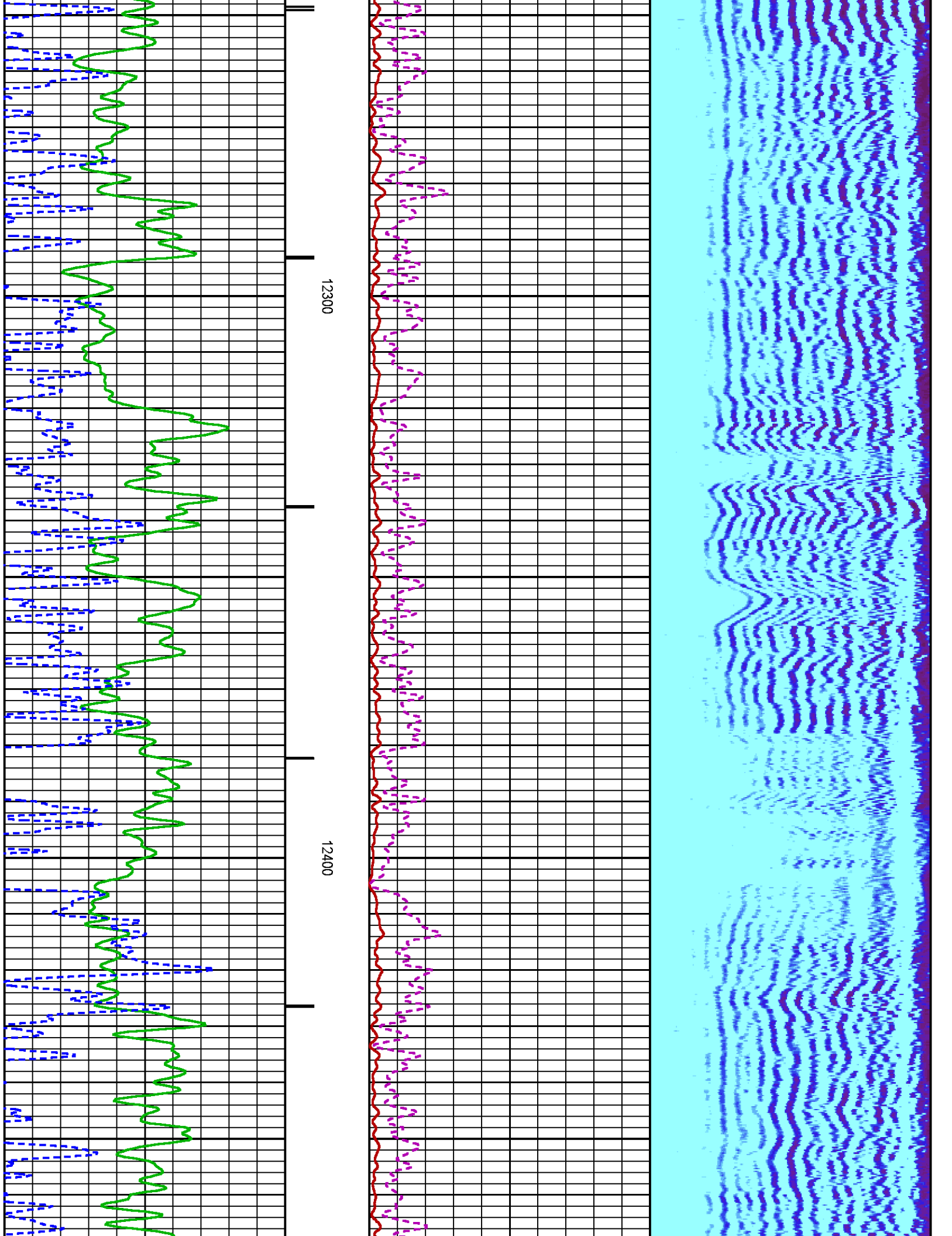


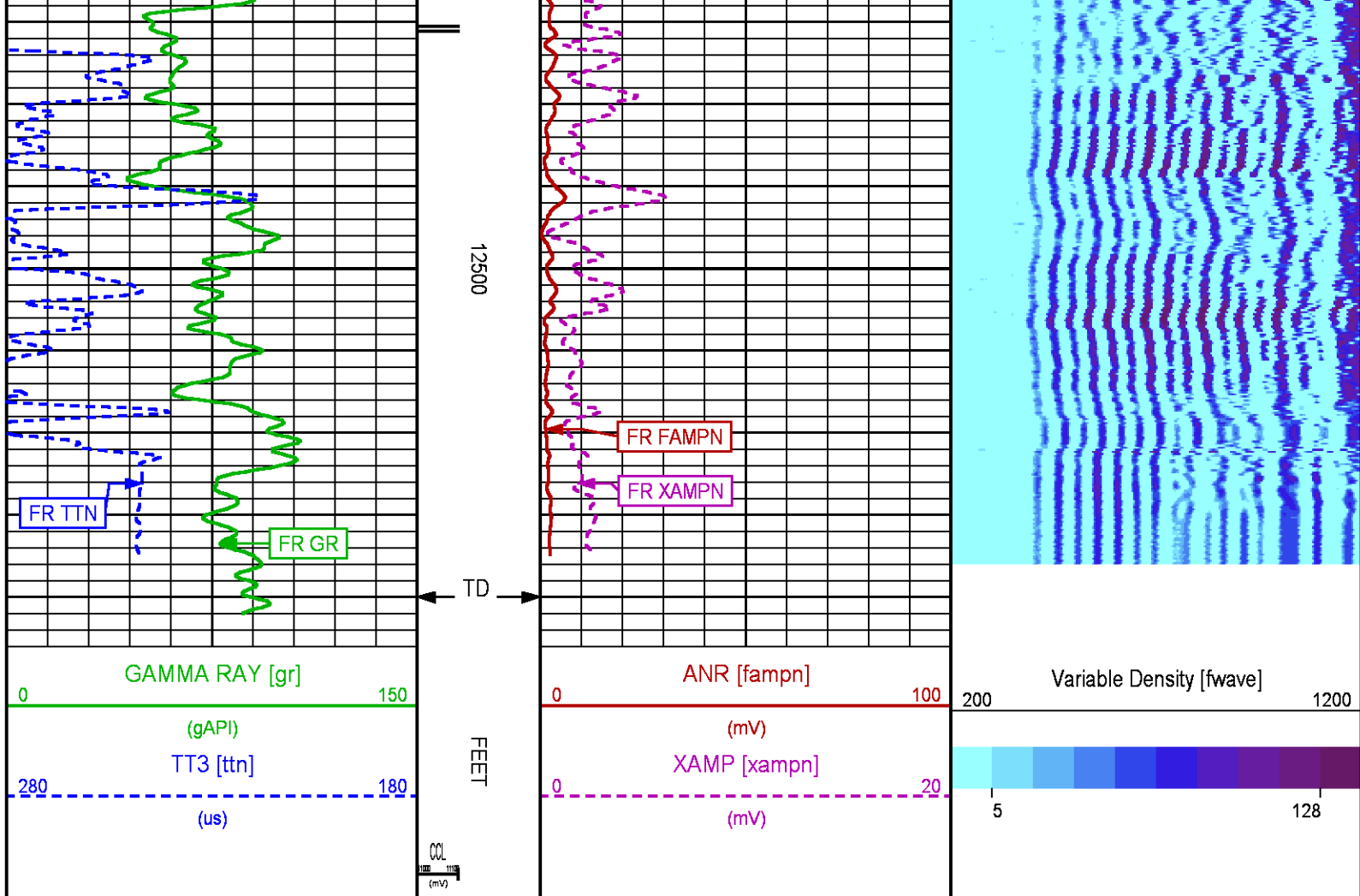












REPEAT LOG 0 PSI

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: Thu Mar 26 13:10:45 2015

## PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\012e01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 12266.000 ft BOTTOM DEPTH: 12562.250 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



## ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	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*)	-70	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

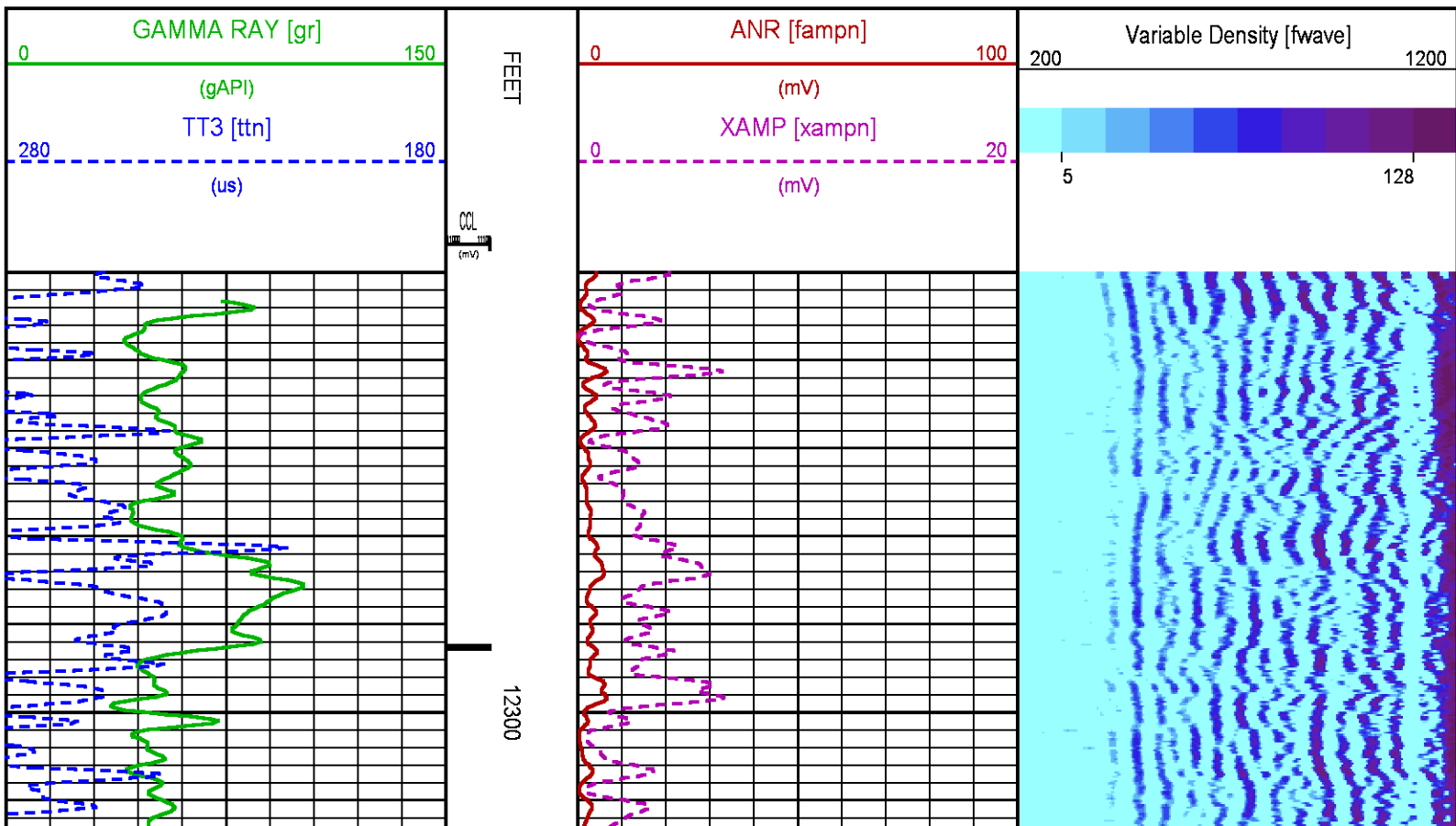
## CURVE DESCRIPTION REPORT

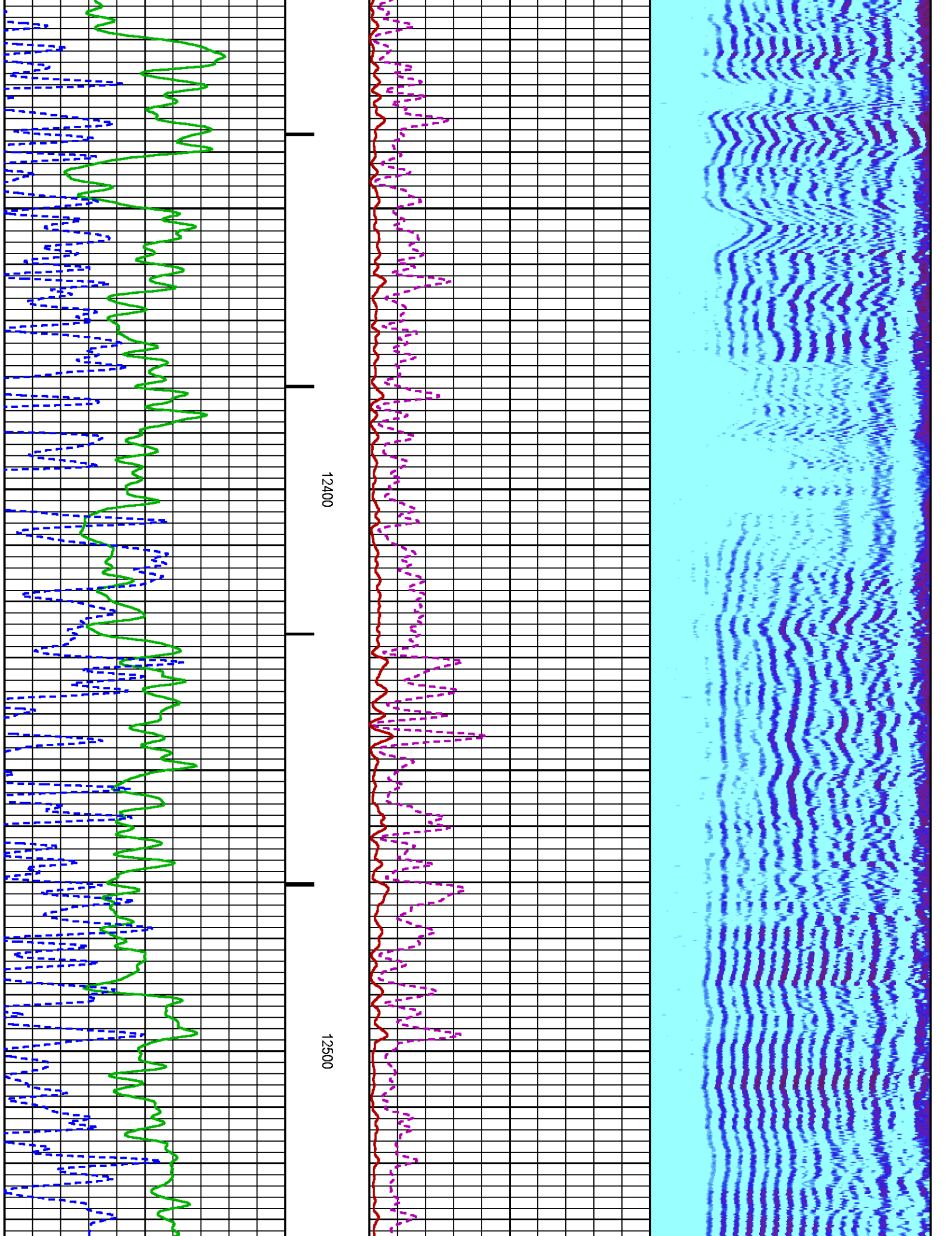
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 25 09:18:43 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 25 09:18:43 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 25 09:18:43 2015	FAR WAVE FORM
F1:GR	Mar 25 09:18:43 2015	GAMMA RAY
F1:TTN	Mar 25 09:18:43 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 25 09:18:43 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

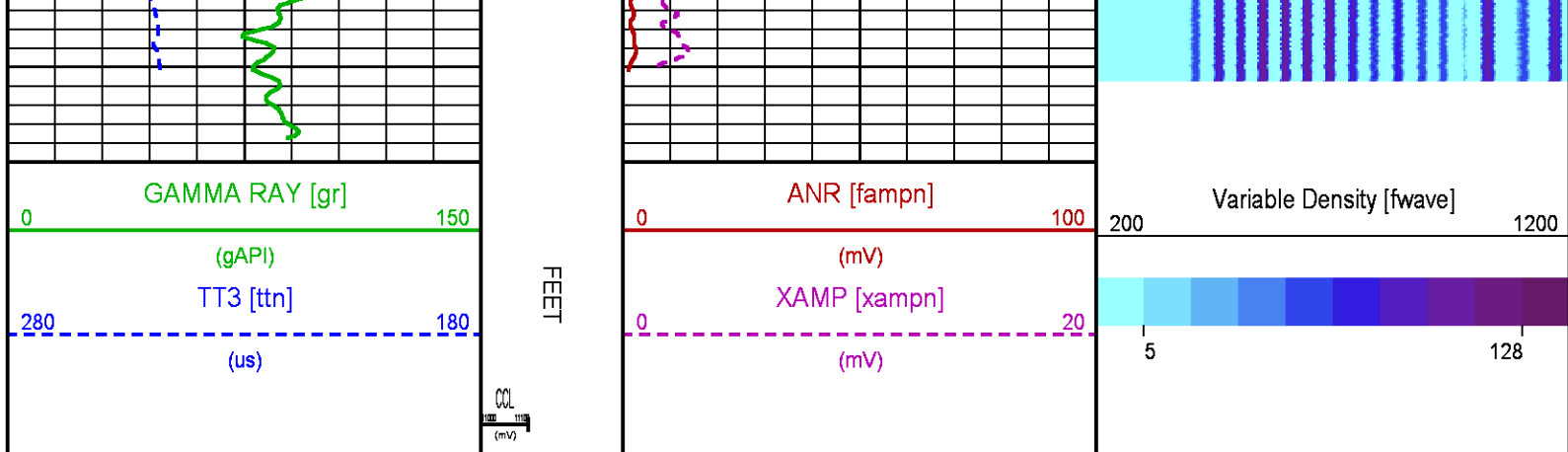
## CURVE MEASURE POINT OFFSET

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>	: BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\WPX_CBL_REPEAT_PRESENTATION.fvpdf [5"/100' Scale]
<b>Plot Interval</b>	: 12250 - 12550 Feet
<b>Data File 1</b>	: F1 : BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\CBL44REPEAT.xtf
<b>Created On</b>	: Mar 25 09:18:43 2015
<b>Company</b>	: WPX ENERGY
<b>Well</b>	: FEDERAL RGU 44-23-198
<b>Field</b>	: SULPHUR CREEK
<b>File Interval</b>	: 12244.8 - 12555.3 Feet
<b>OCT</b>	: n012e







## 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: Thu Mar 26 13:01:49 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\012e02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 30.500 ft BOTTOM DEPTH: 12556.979 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 (fgp1*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	167	us	TOP	7628.250
		165	us	7628.250	7630.750
		160	us	7630.750	BOTTOM
	TT WINDOW LENGTH	500	us	TOP	BOTTOM
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-70	us	"	"
	TOOL DELAY (str2*)	-70	us	"	"
	TOOL DELAY (str3*)	-70	us	"	"

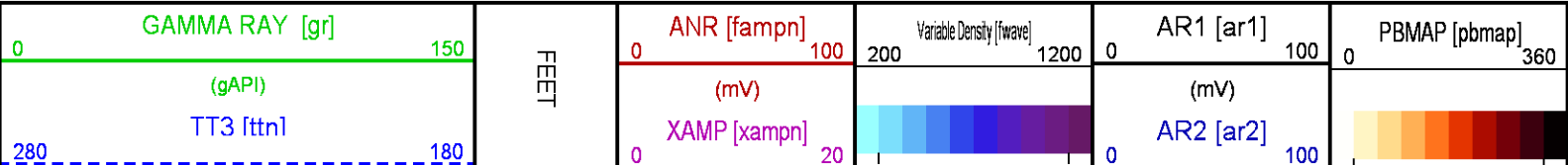
	TOOL DELAY (str4*)	-70	us	"	"
	TOOL DELAY (str5*)	-70	us	"	"
	TOOL DELAY (str6*)	-70	us	"	"
	TOOL DELAY (str7*)	-70	us	"	"
	TOOL DELAY (str8*)	-70	us	"	"
	TOOL DELAY (strn*)	-70	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

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	"	"

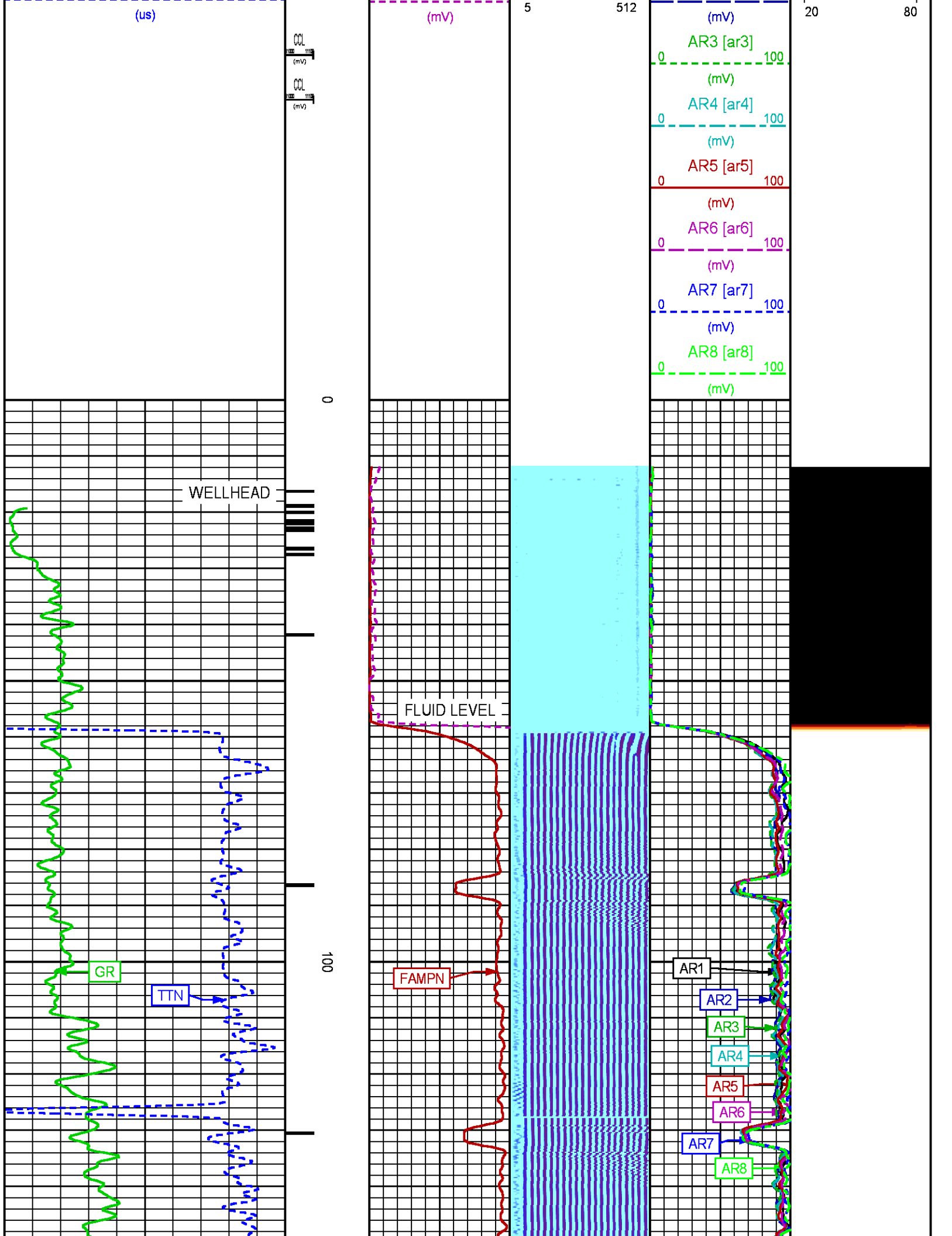
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Mar 25 09:26:29 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 25 09:26:29 2015	FAR WAVE FORM
F1:GR	Mar 25 09:26:29 2015	GAMMA RAY
F1:PBMAP	Mar 25 09:26:29 2015	PERCENT BOND CEMENT MAP
F1:TTN	Mar 25 09:26:29 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 25 09:26:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

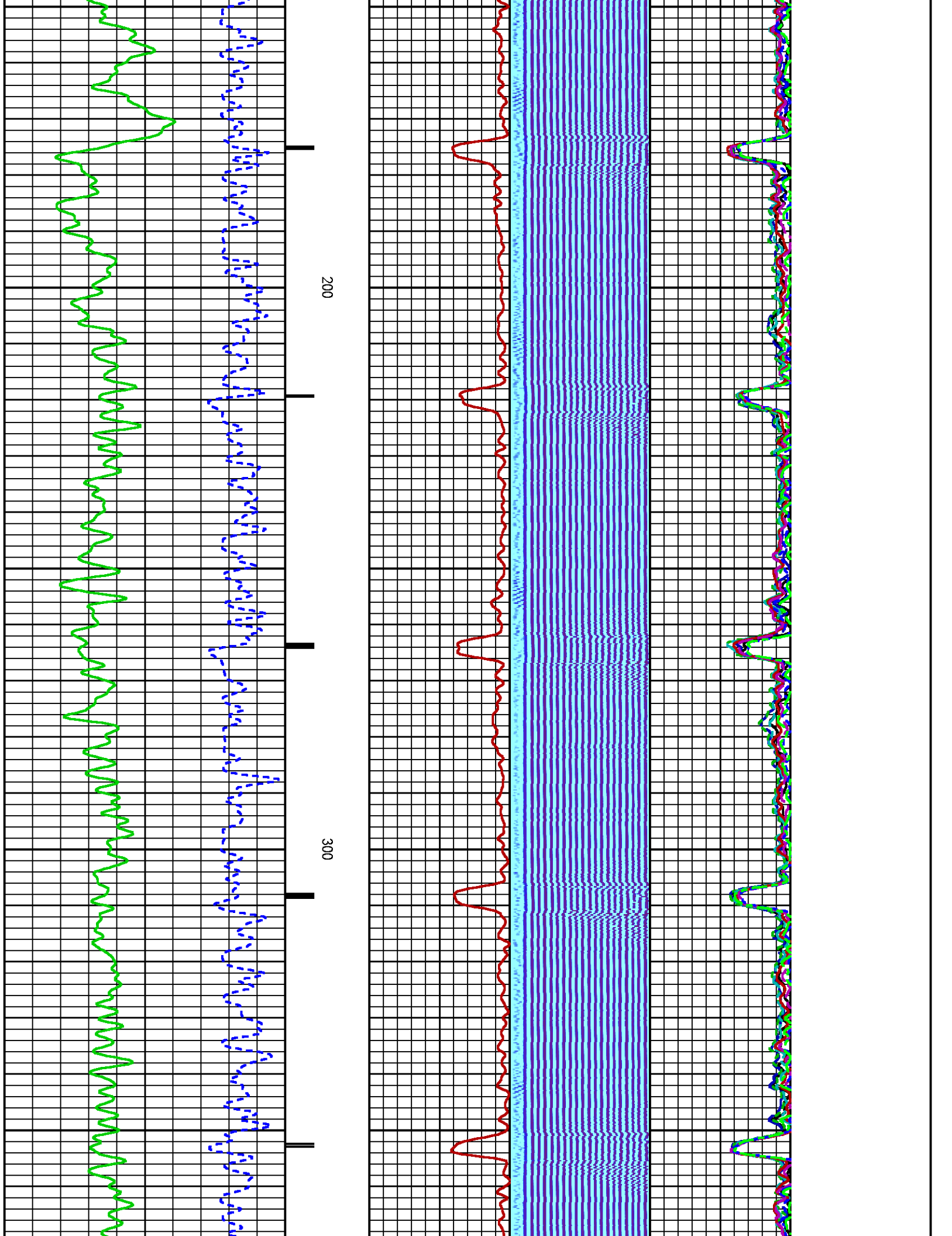
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

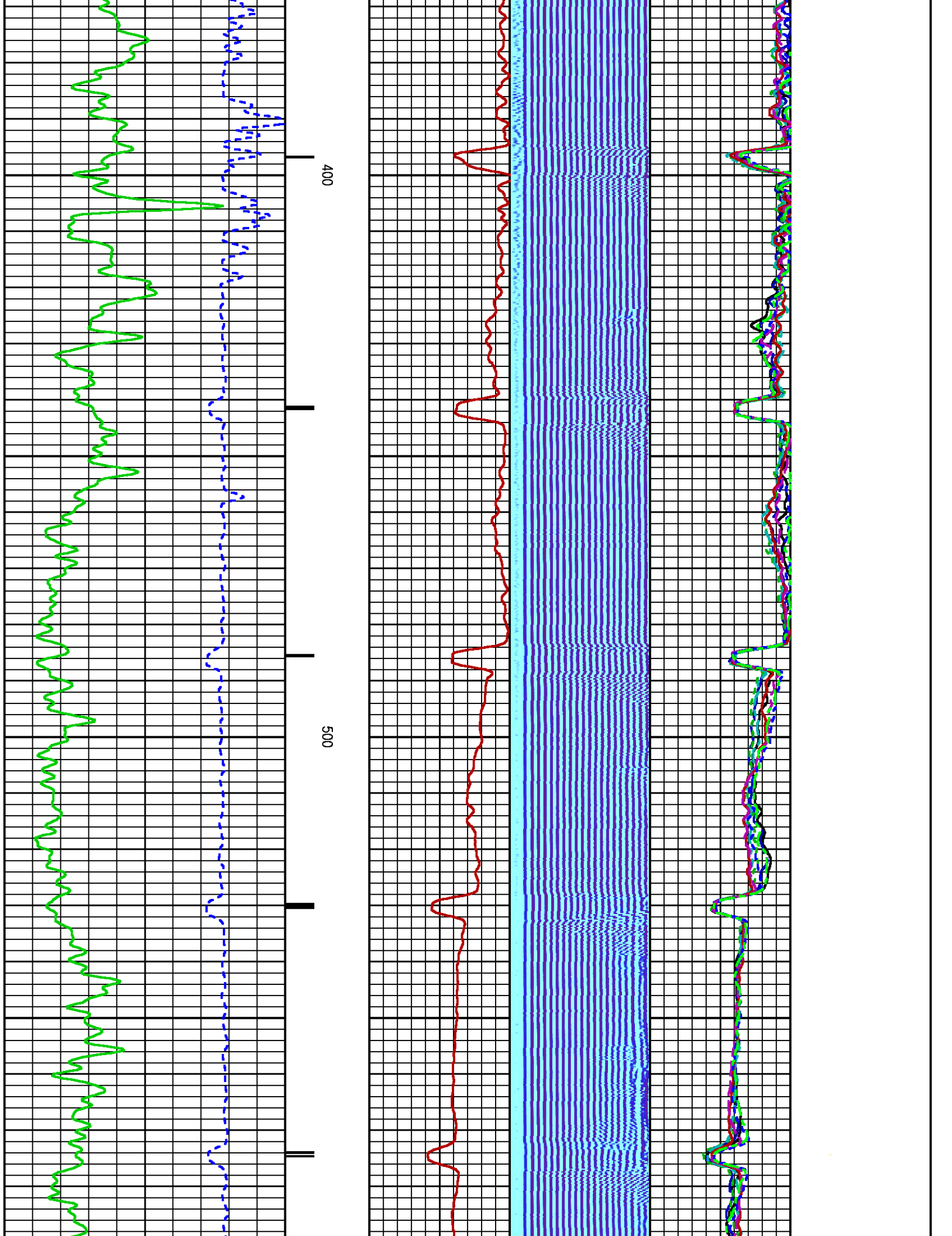
Presentation	: BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\WPX_CBL_SECONDARY_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 12545 Feet
Data File 1	: F1 : BHI9G15WM1:C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\CBL44MAIN.xtf
Created On	: Mar 25 09:26:29 2015
Company	: WPX ENERGY
Well	: FEDERAL RGU 44-23-198
Field	: SULPHUR CREEK
File Interval	: 10.75 - 12555.8 Feet
OCT	: n012e

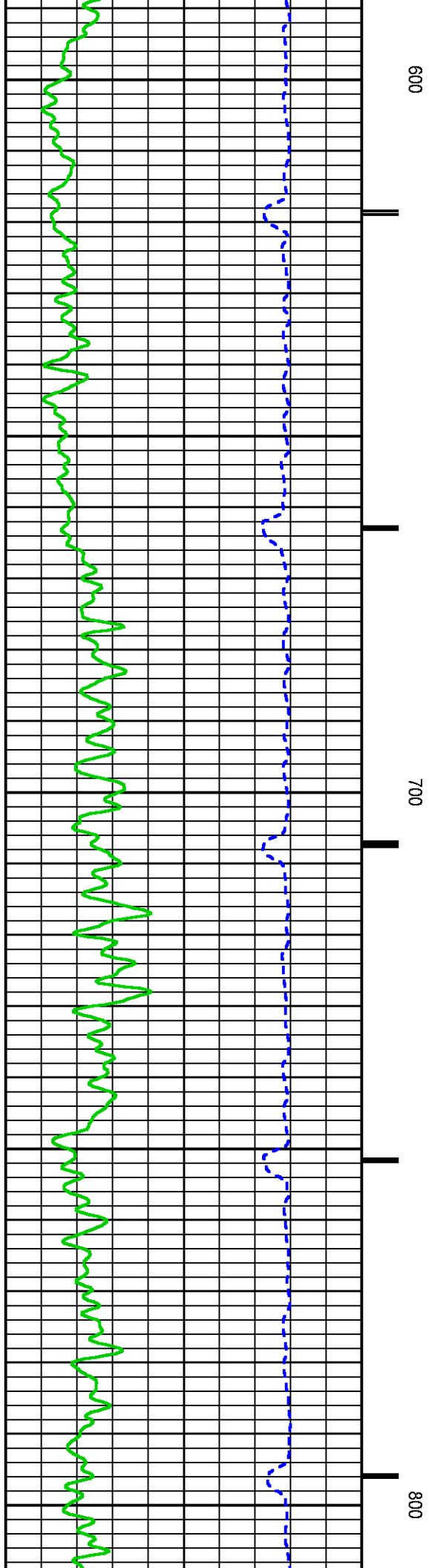
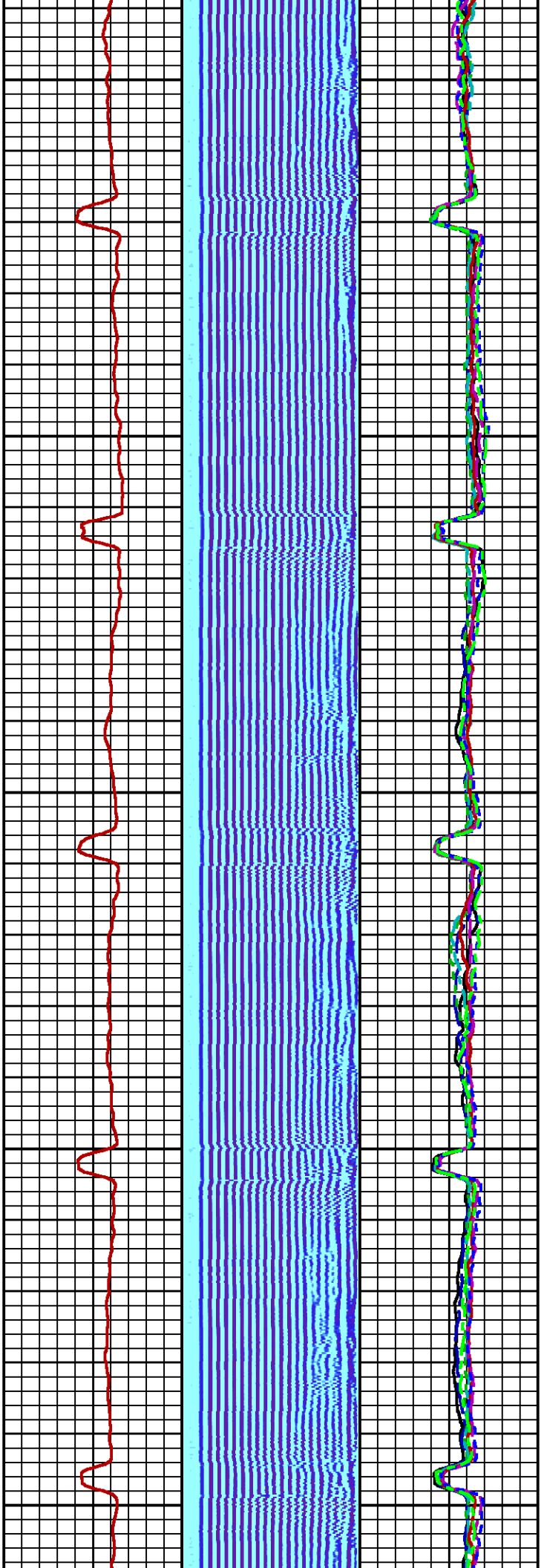




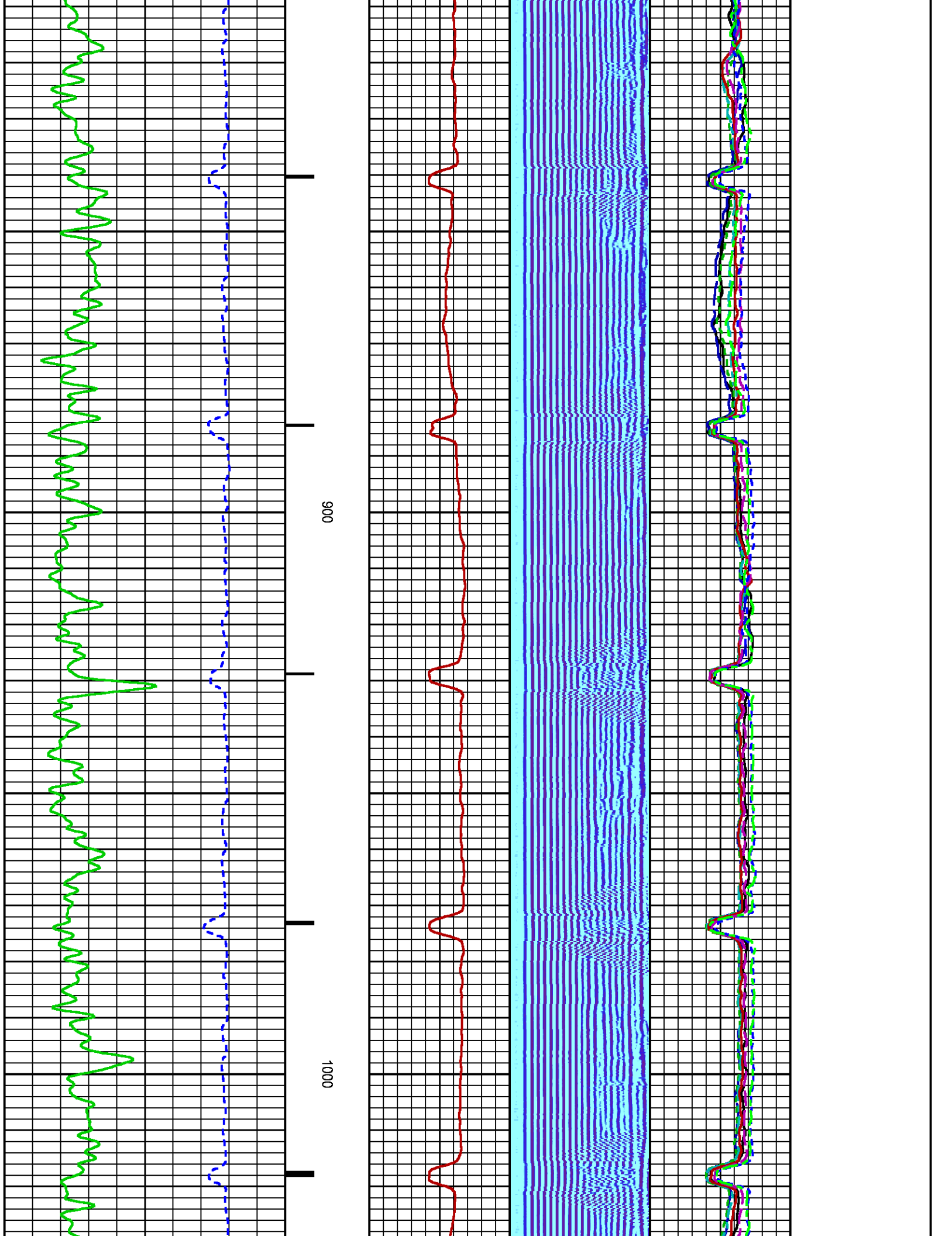


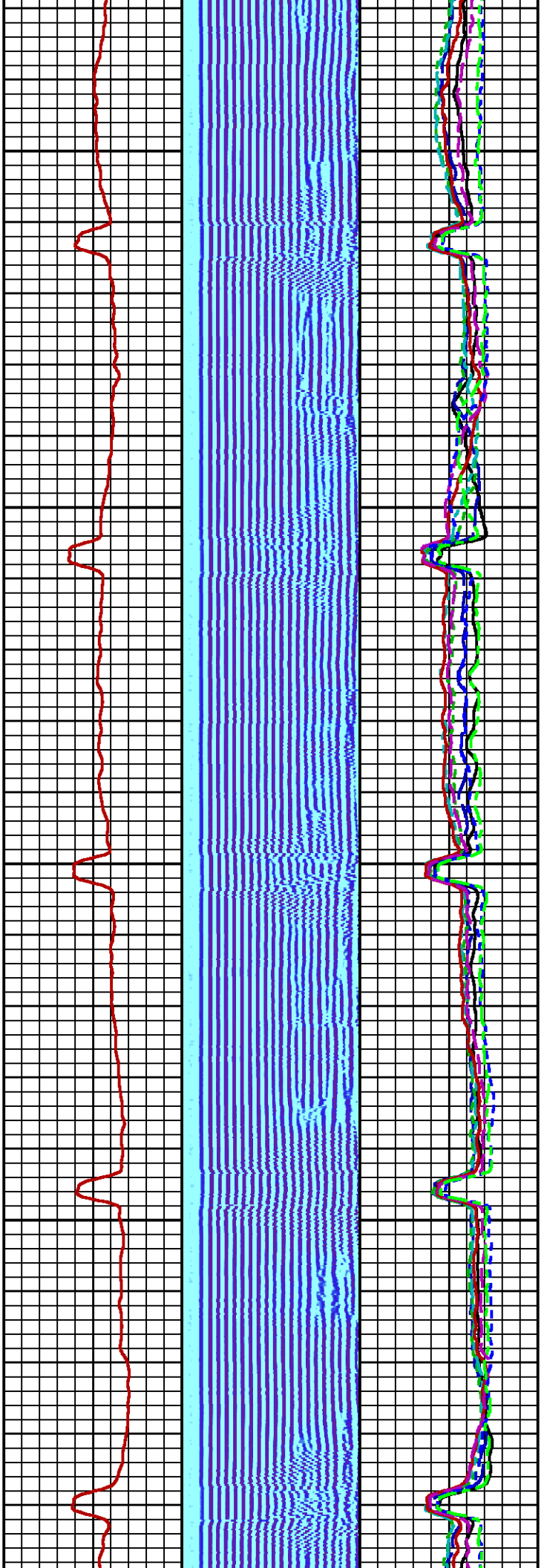






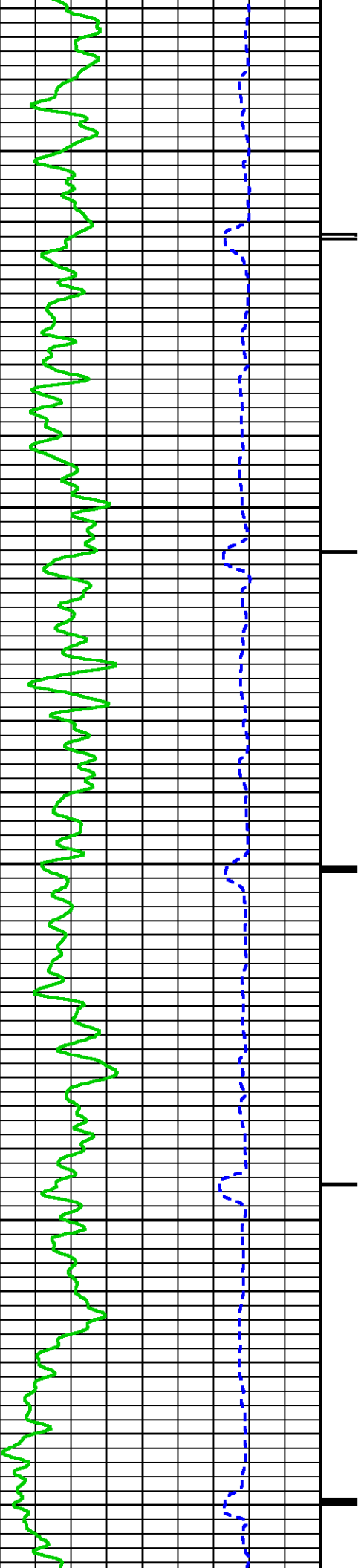


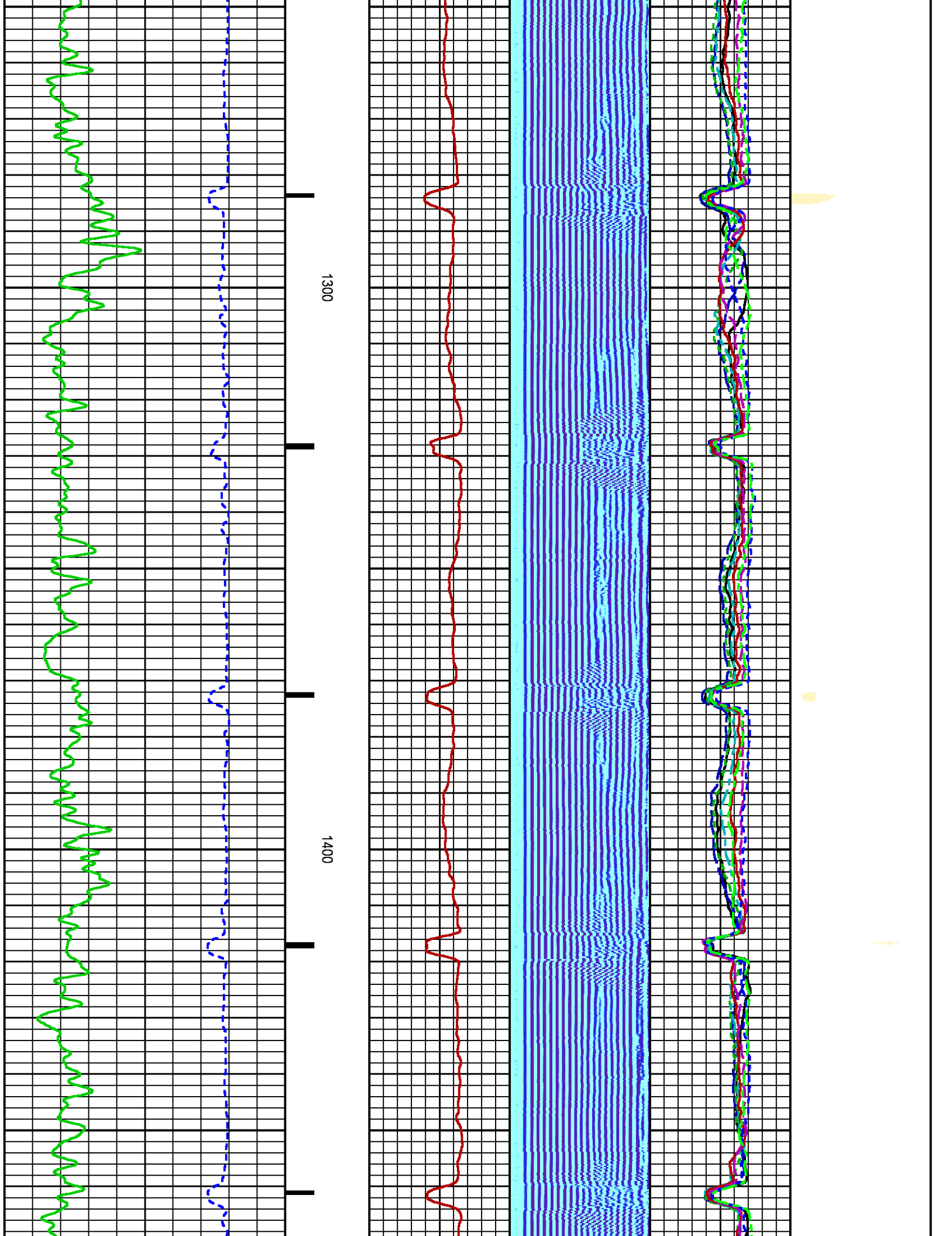


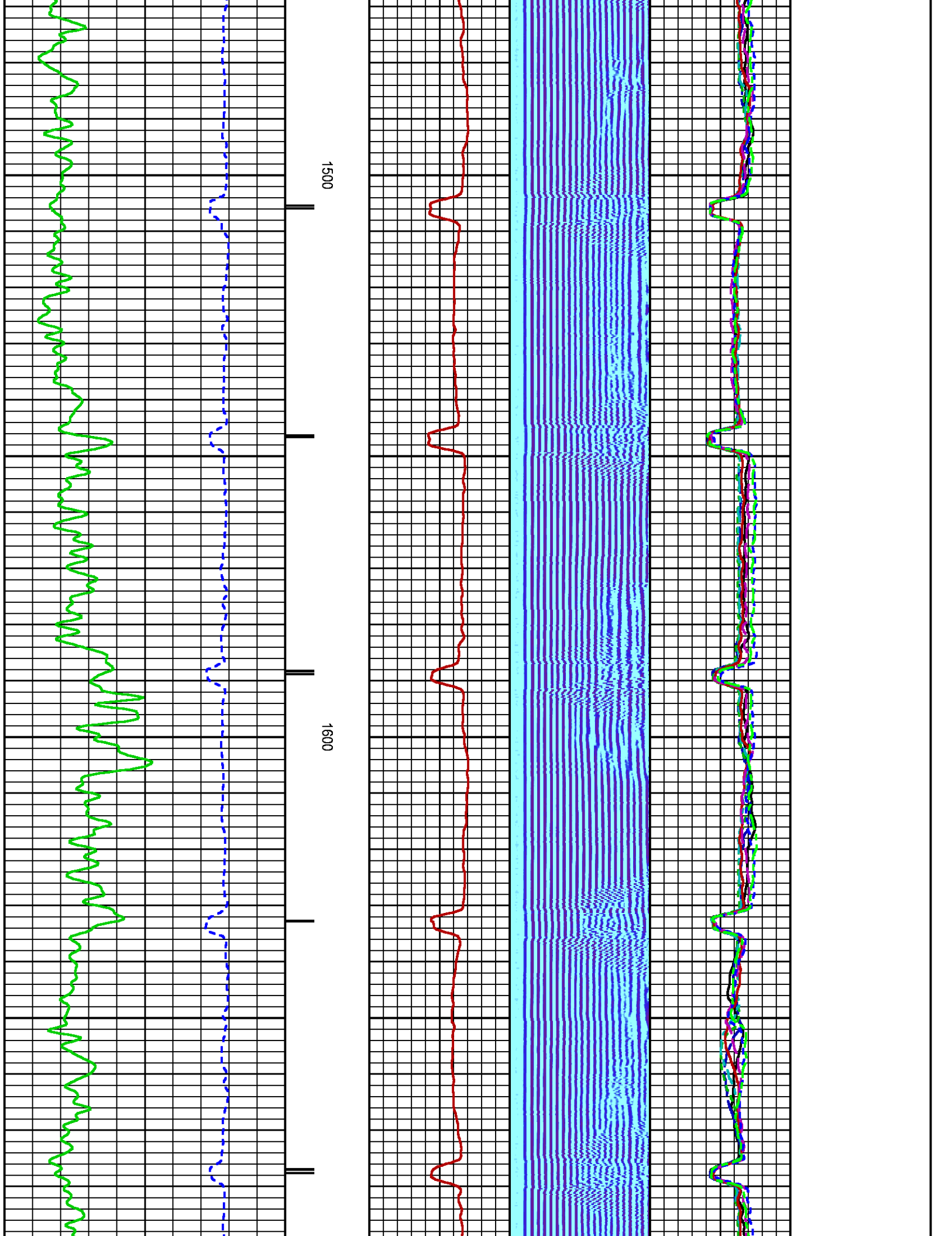


1100

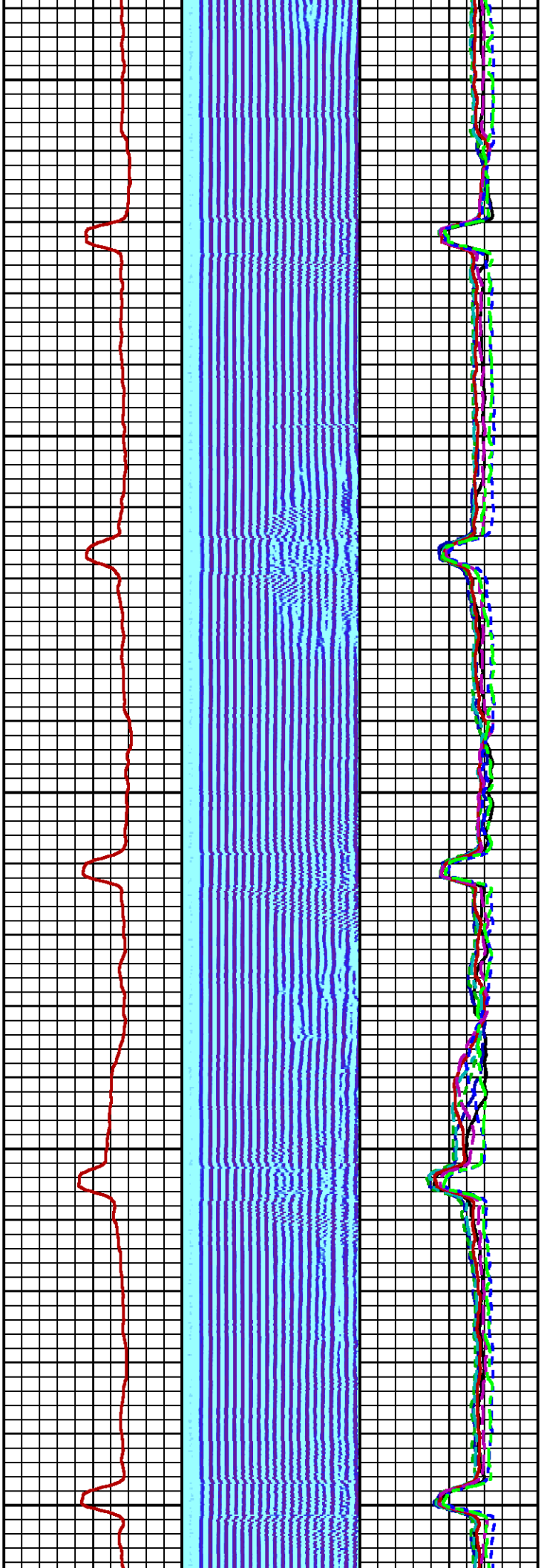
1200







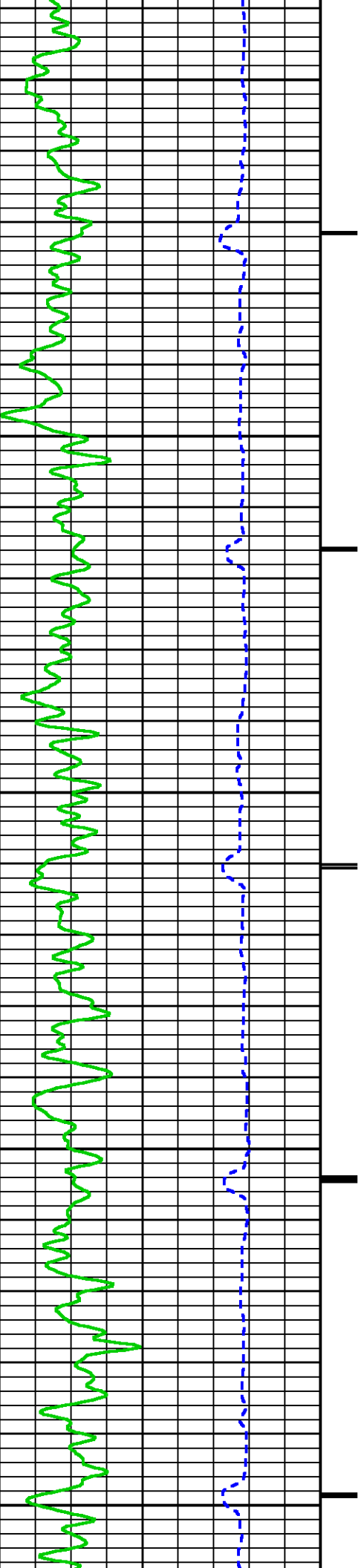




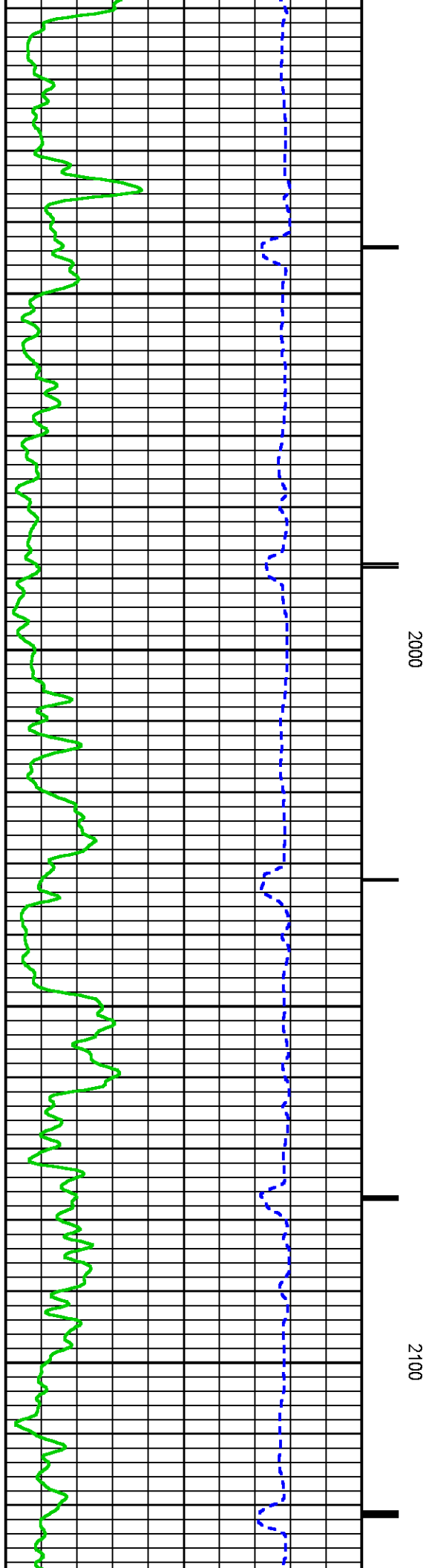
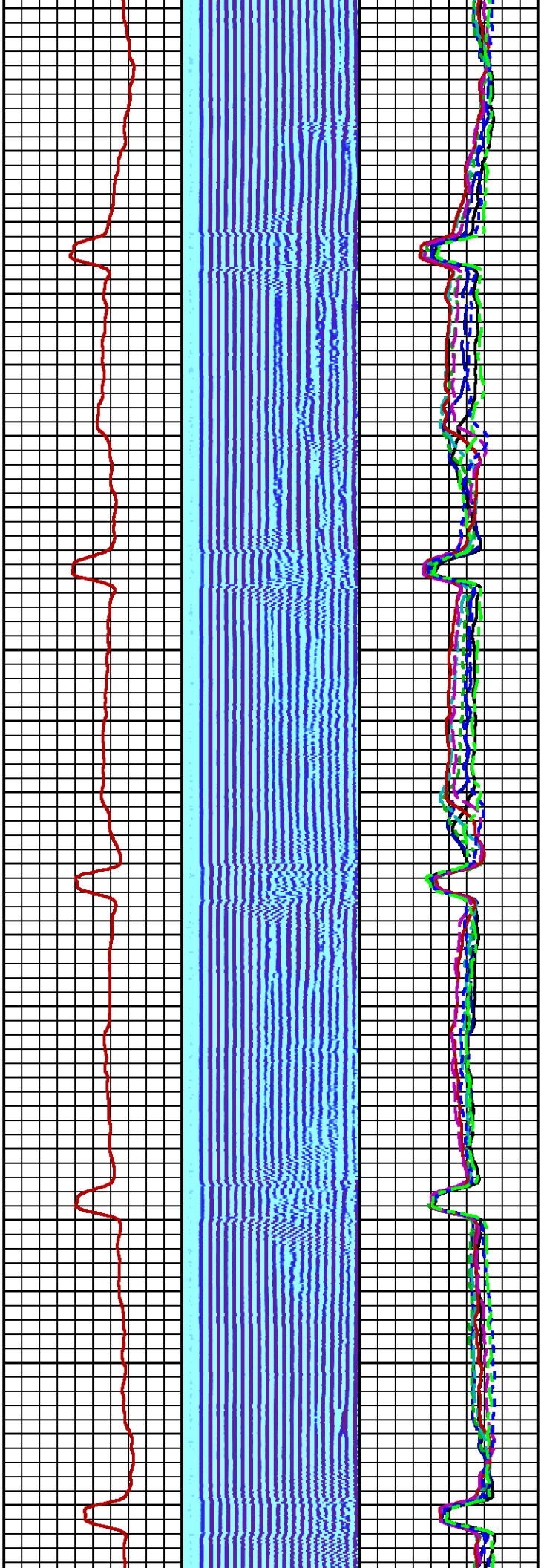
1700

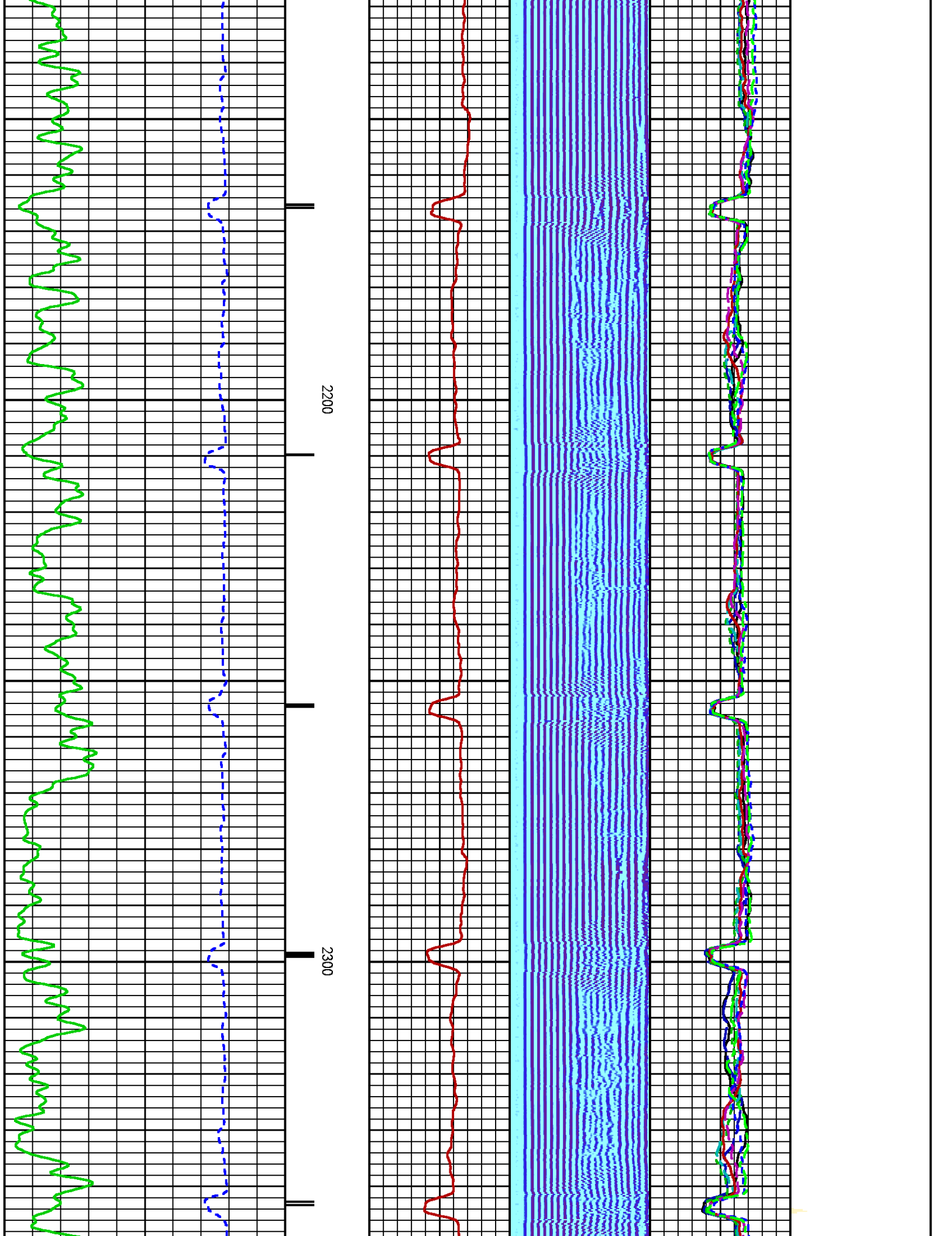
1800

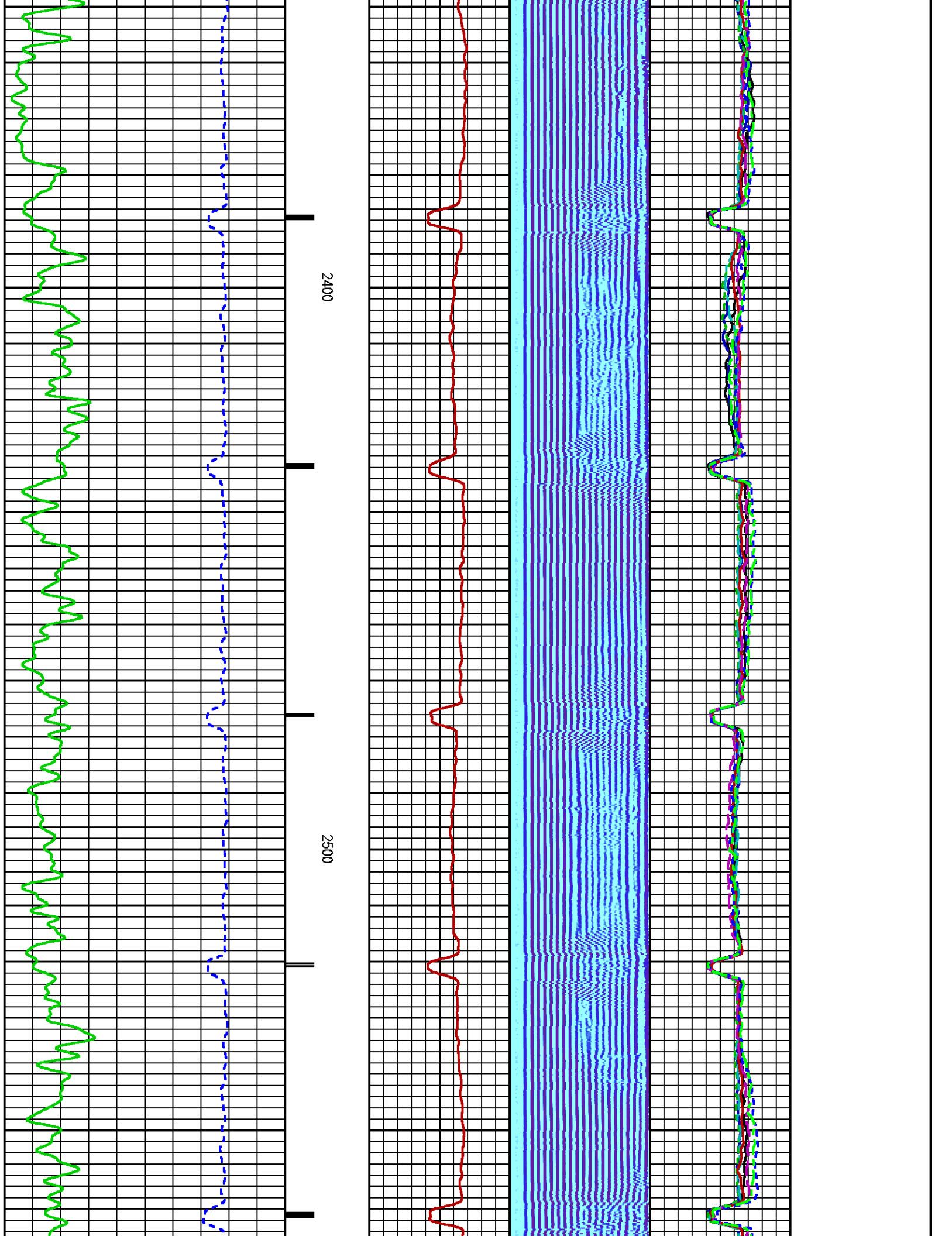
1900



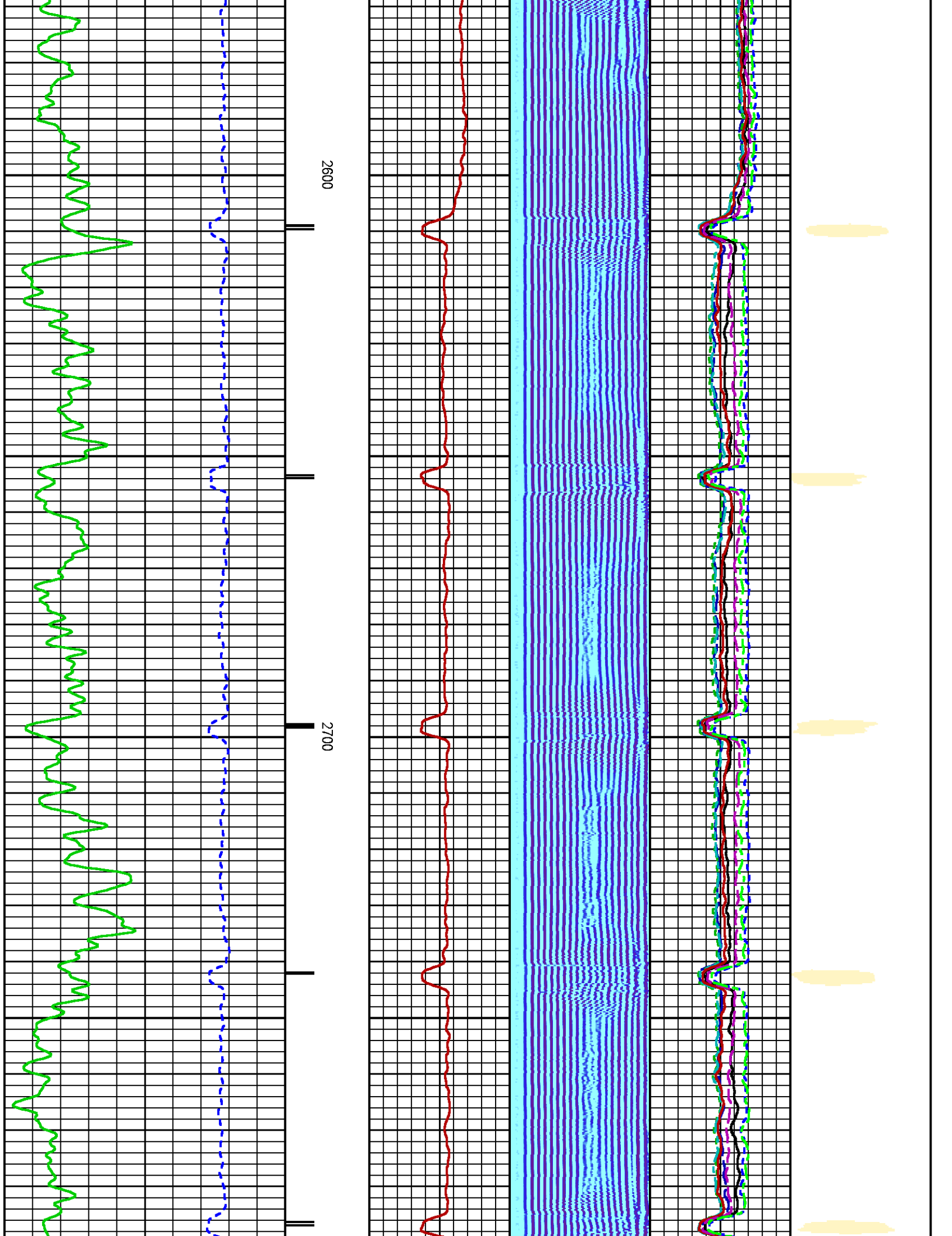
2000 2100

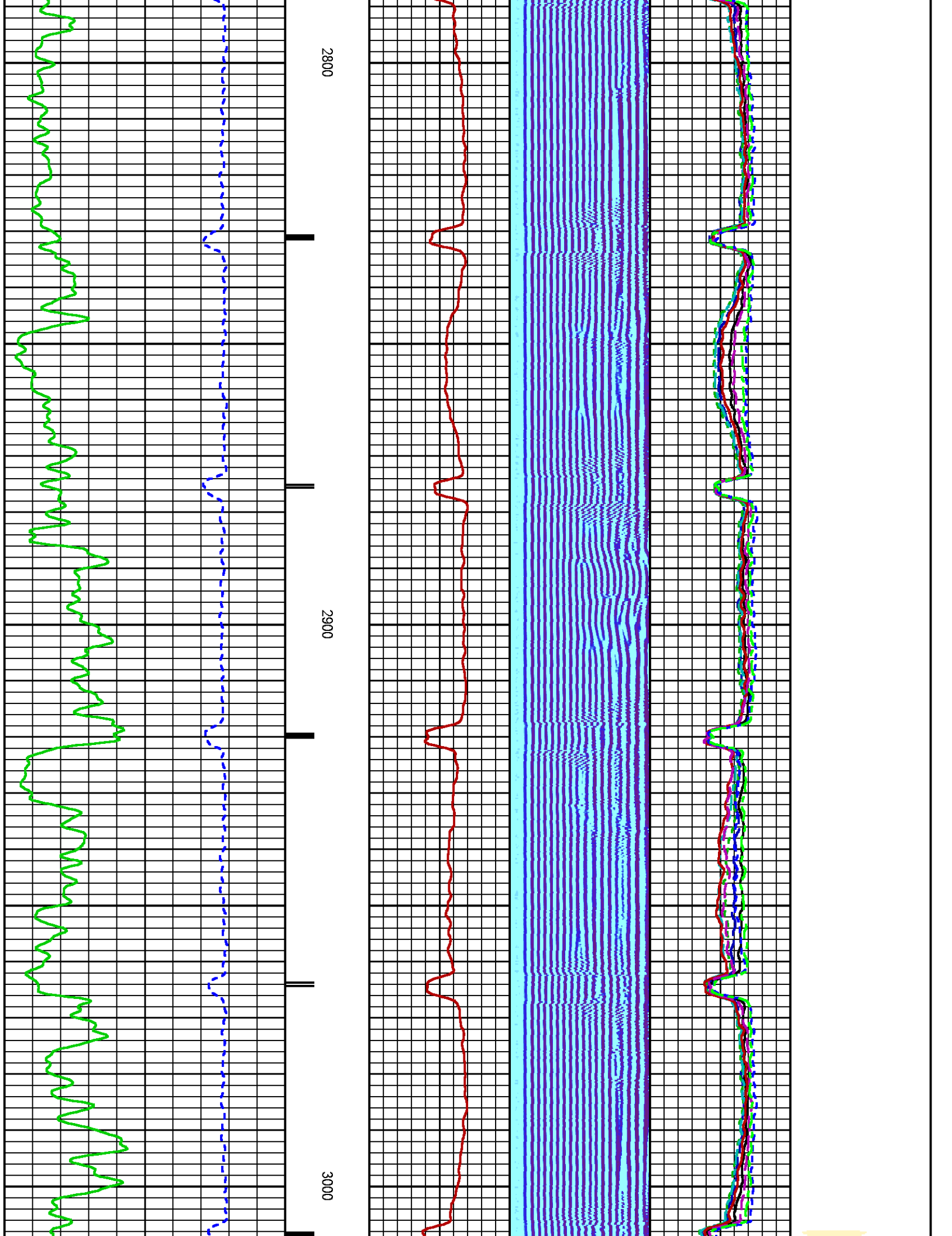


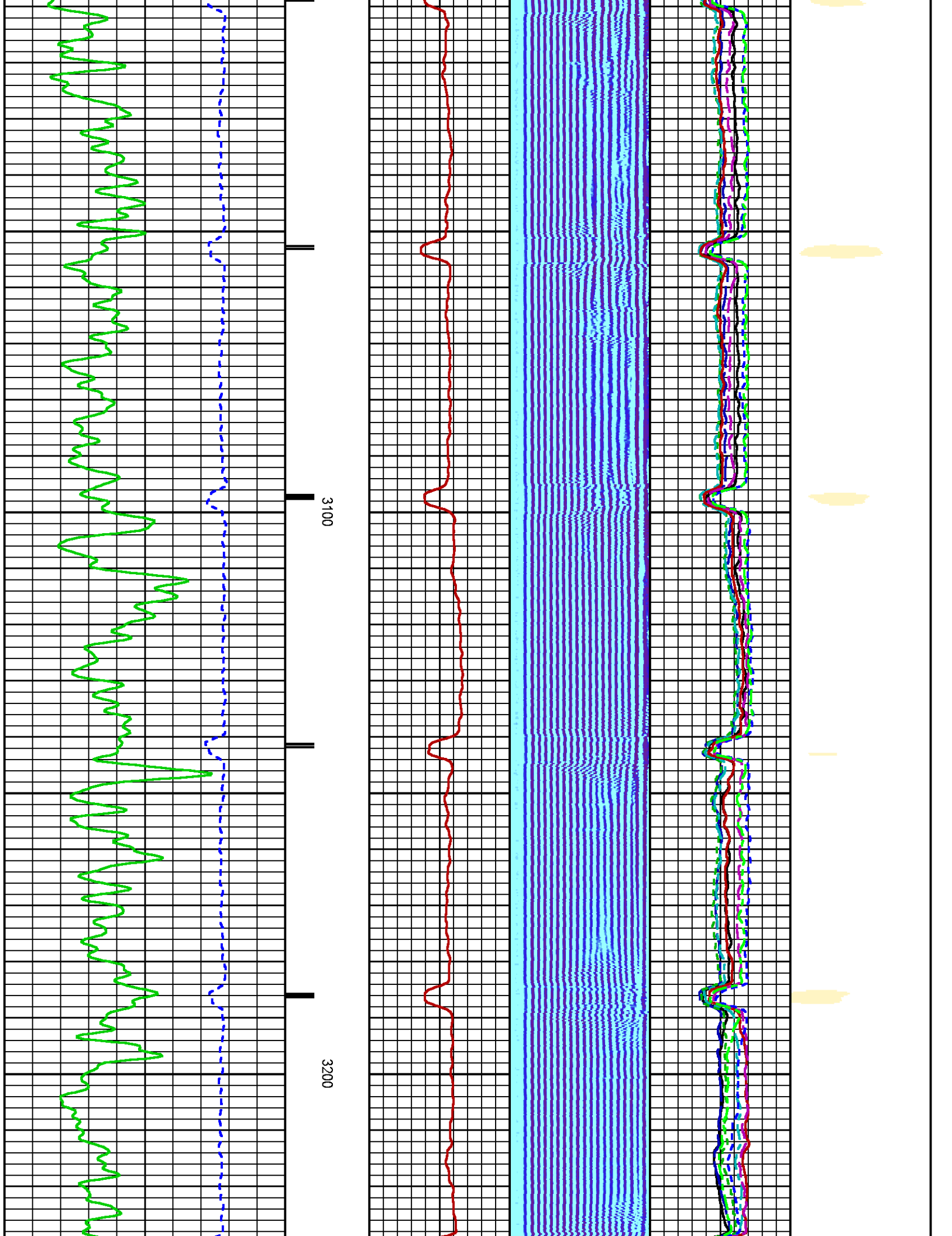


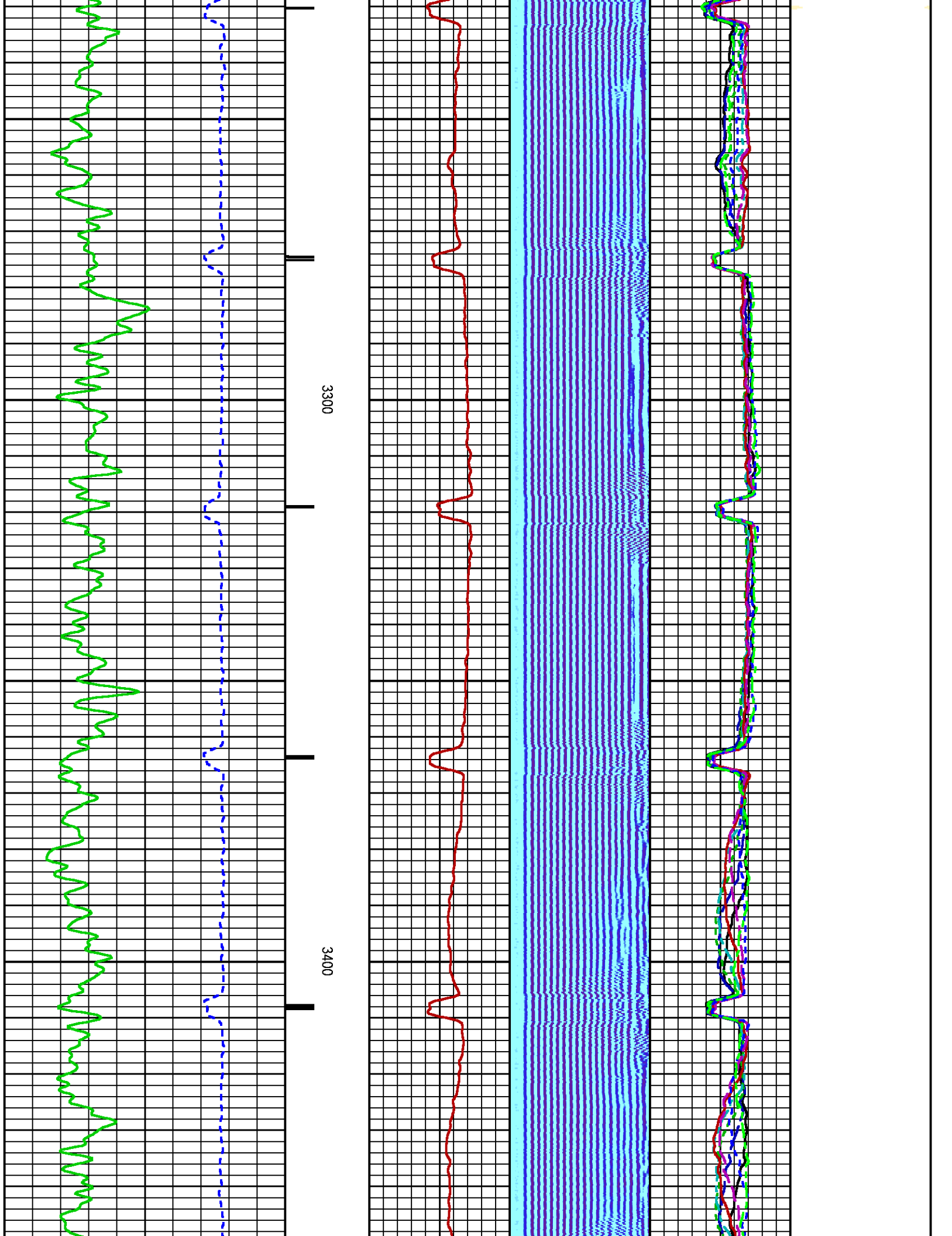




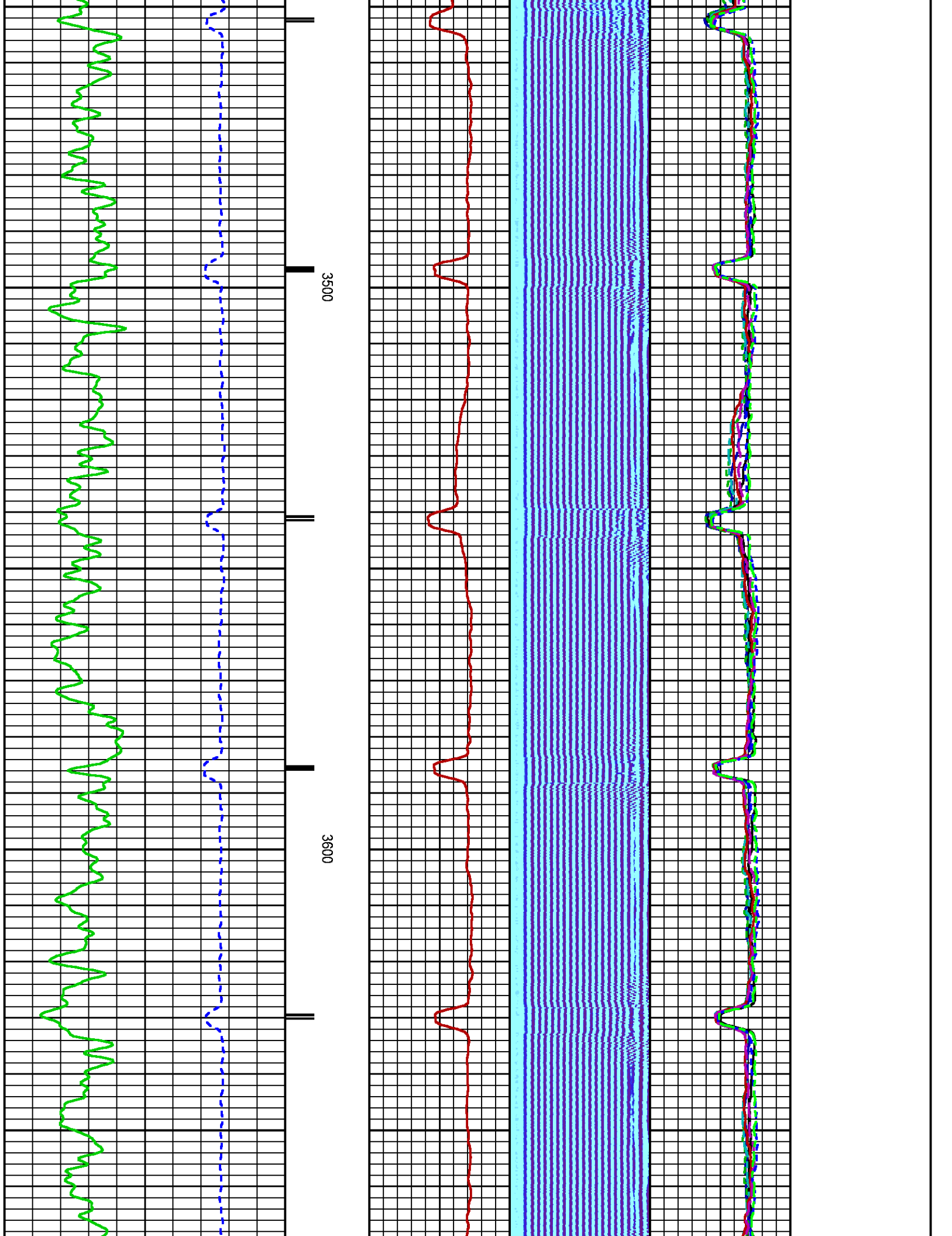


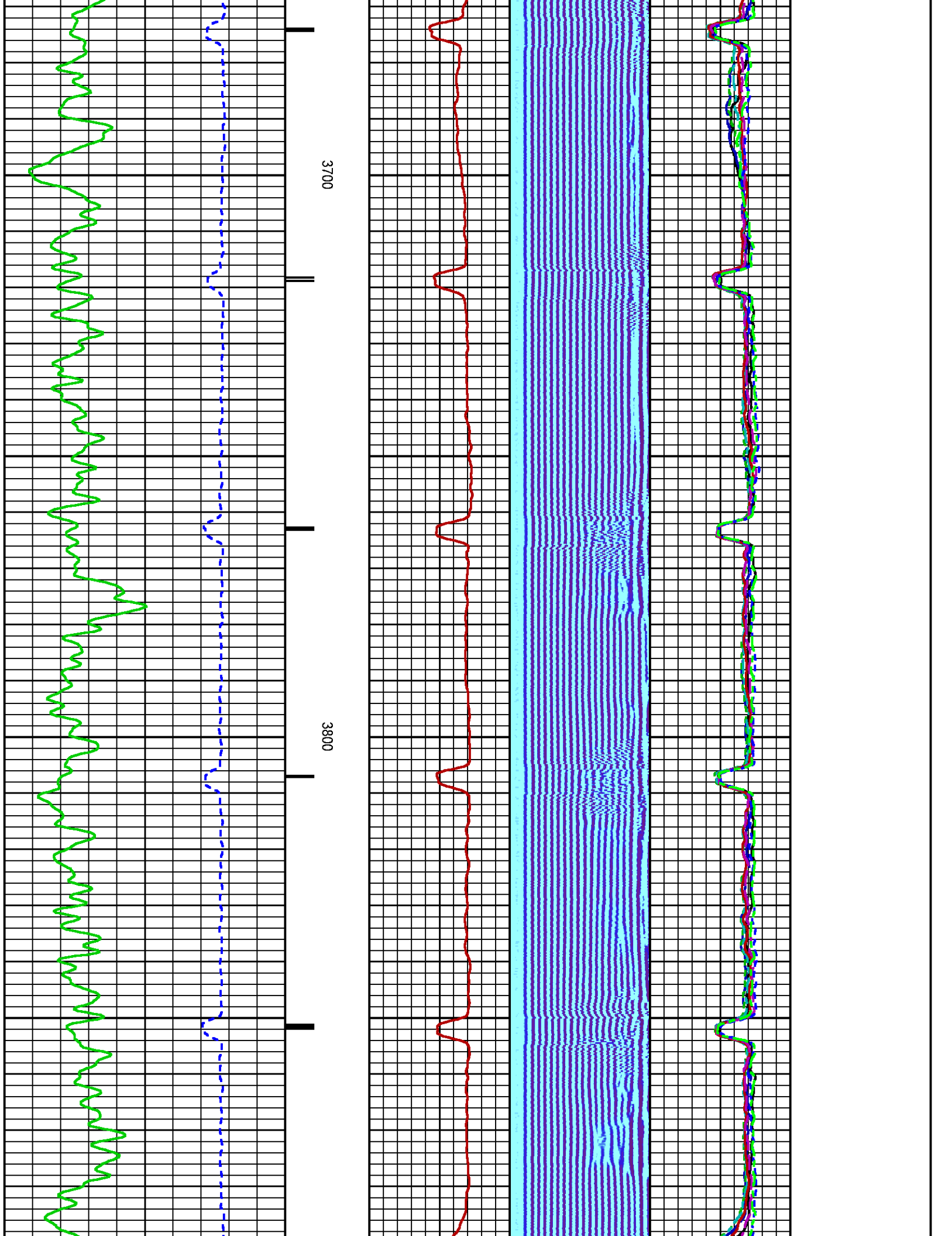


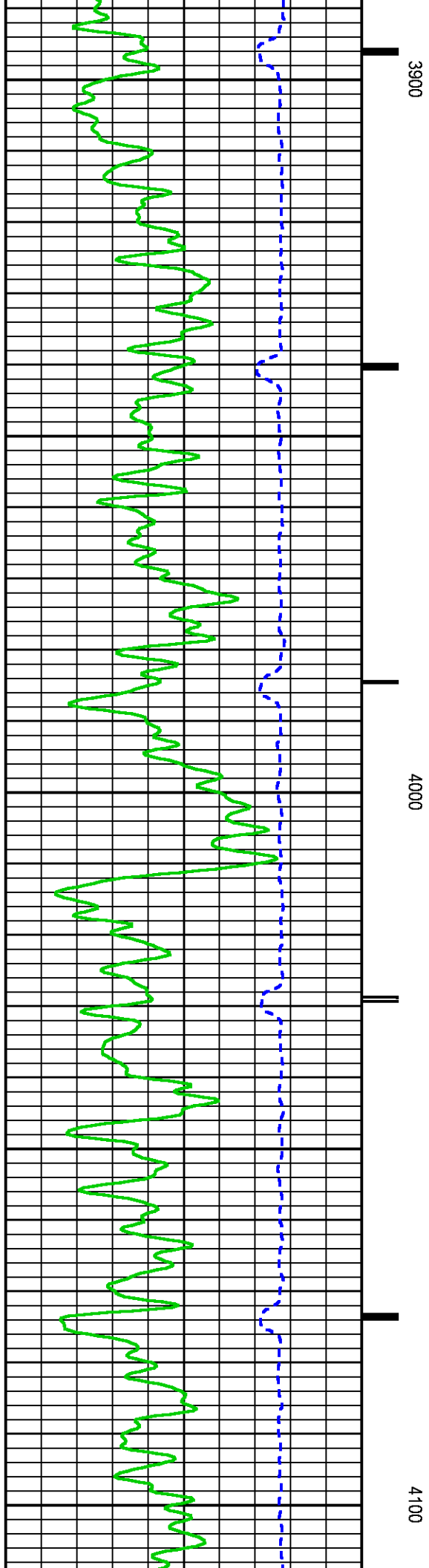
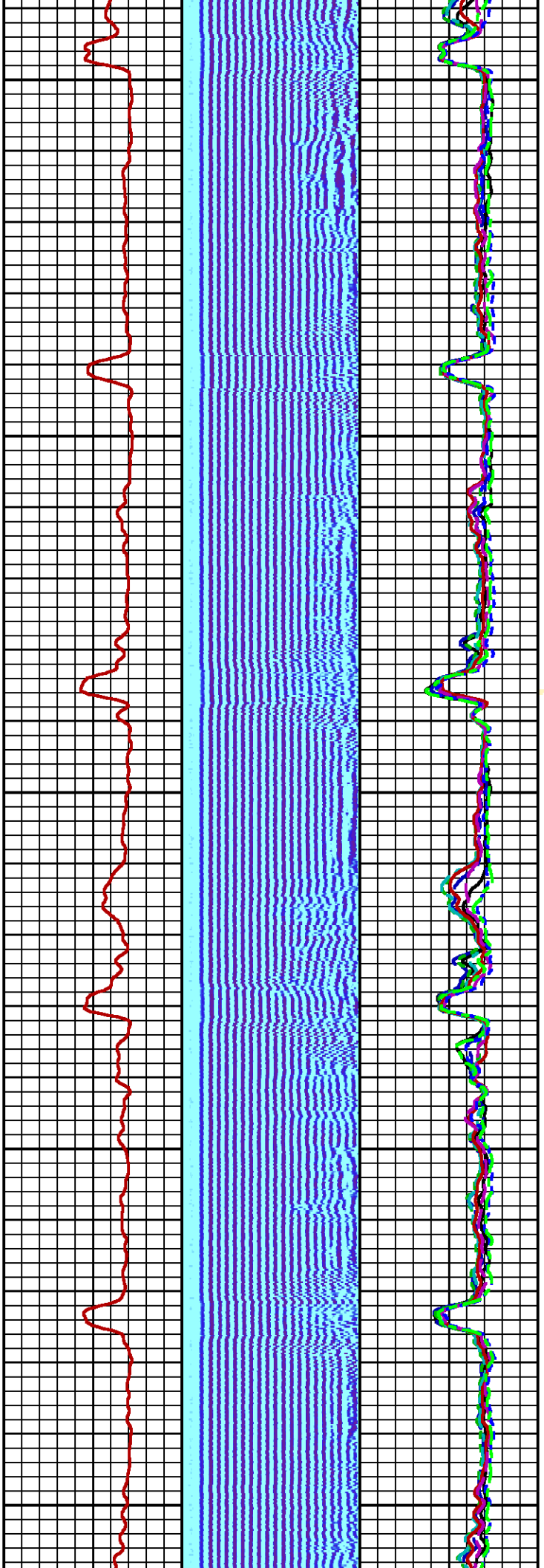


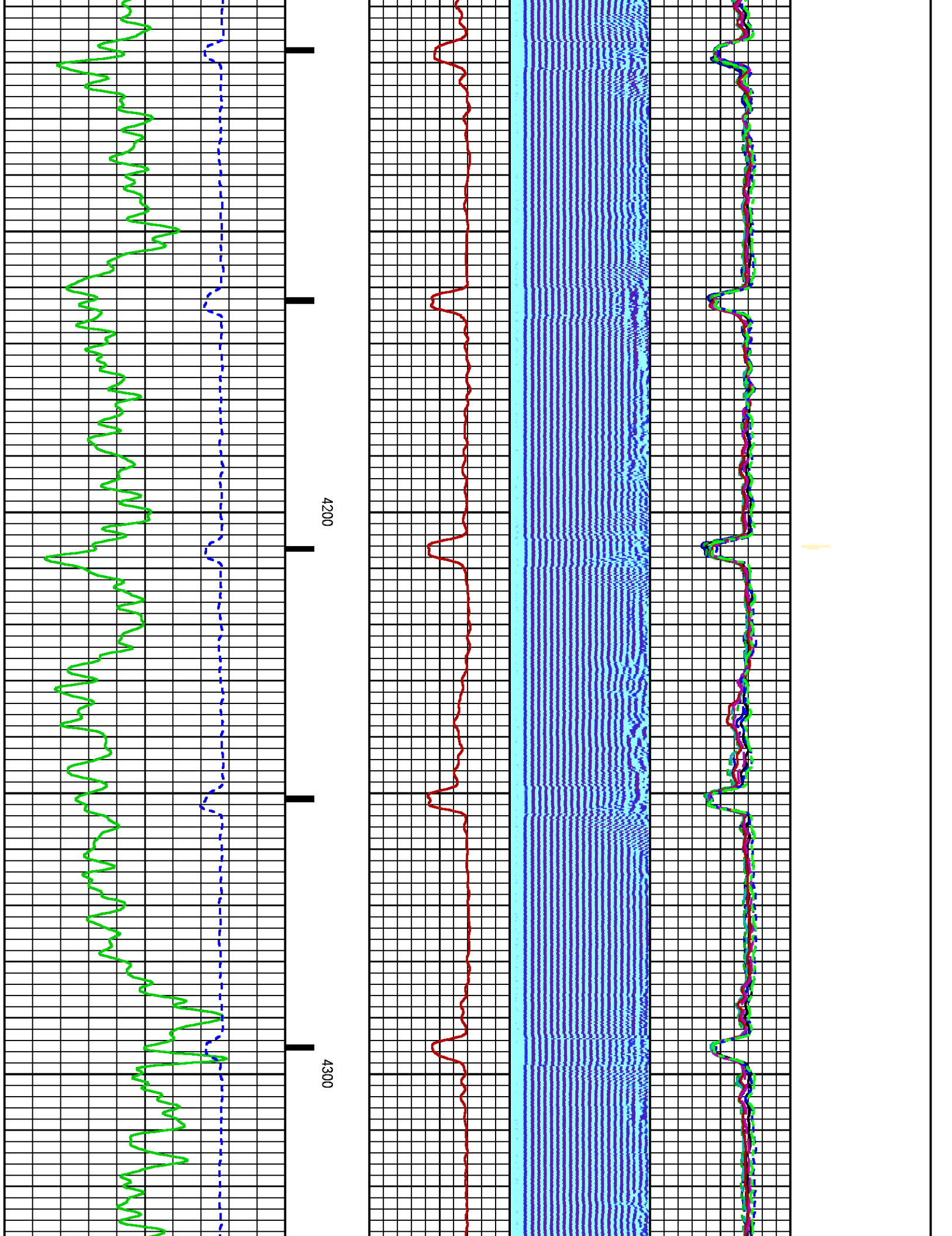




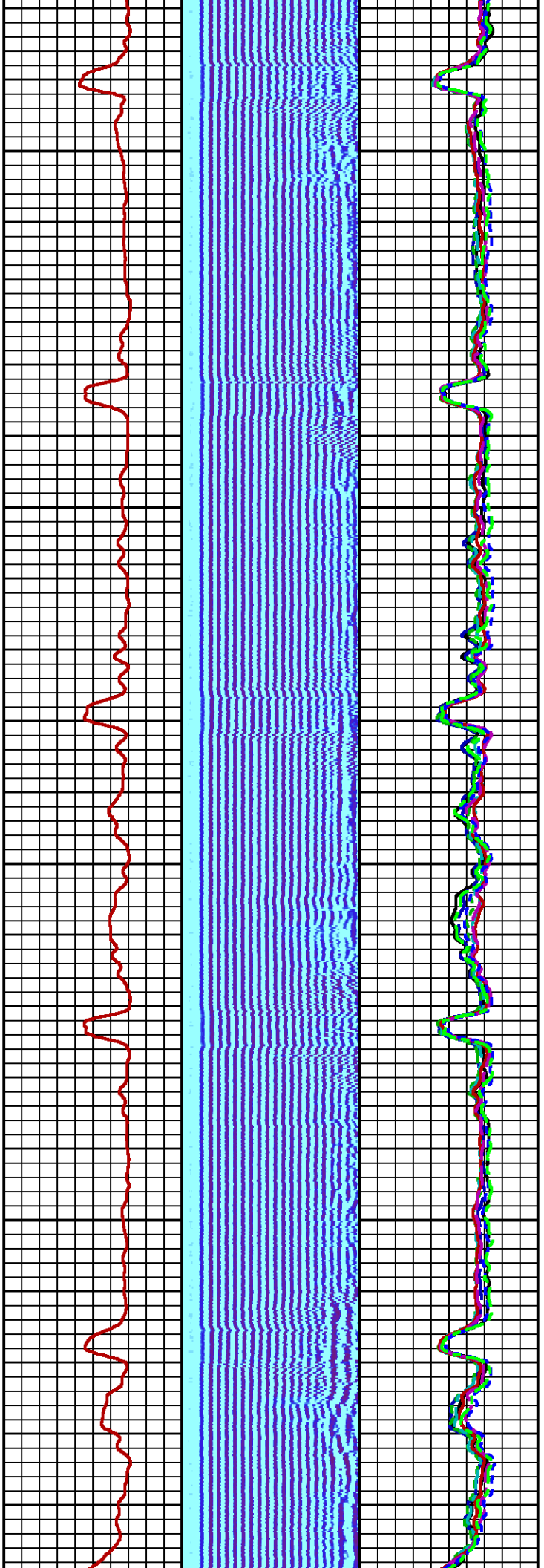






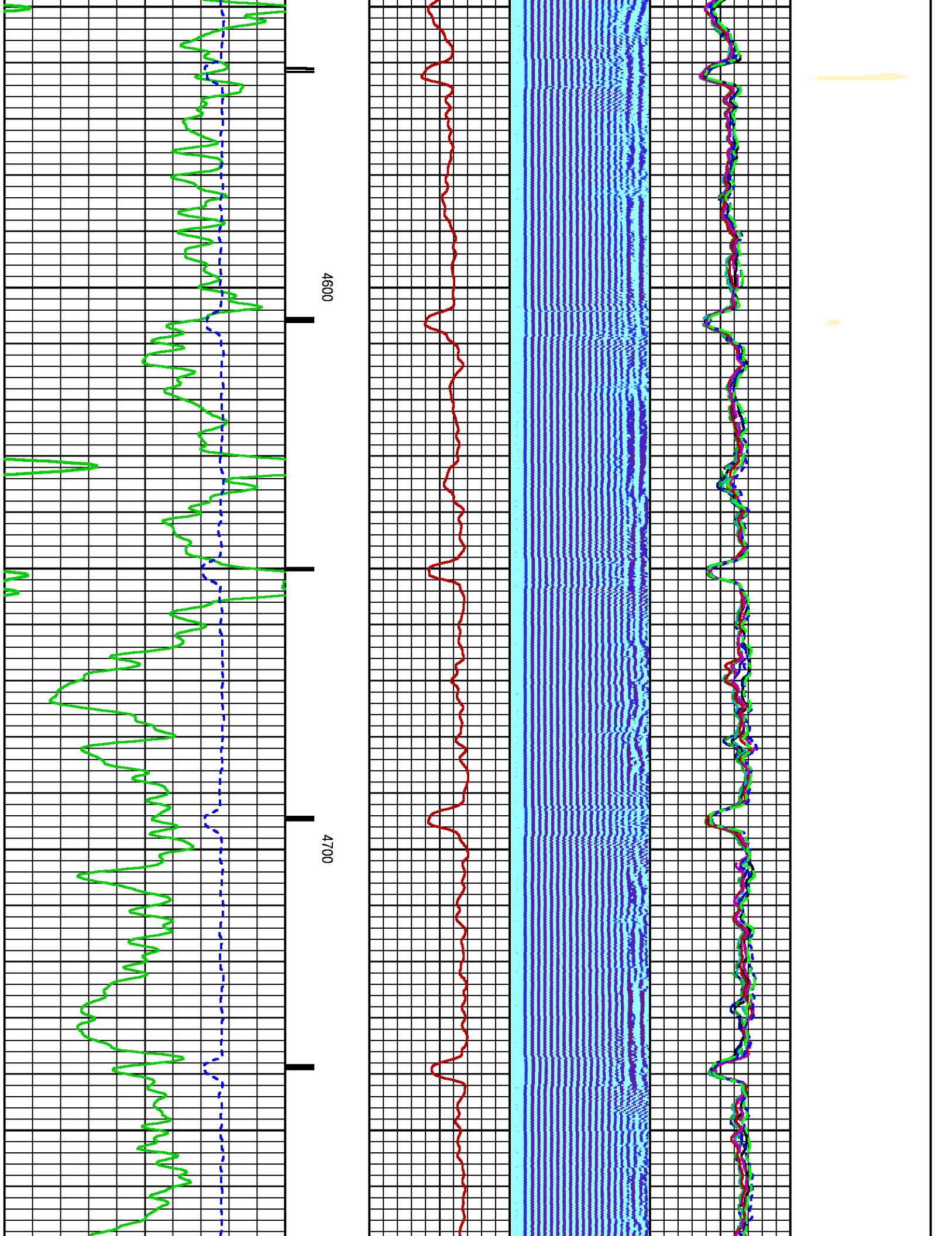


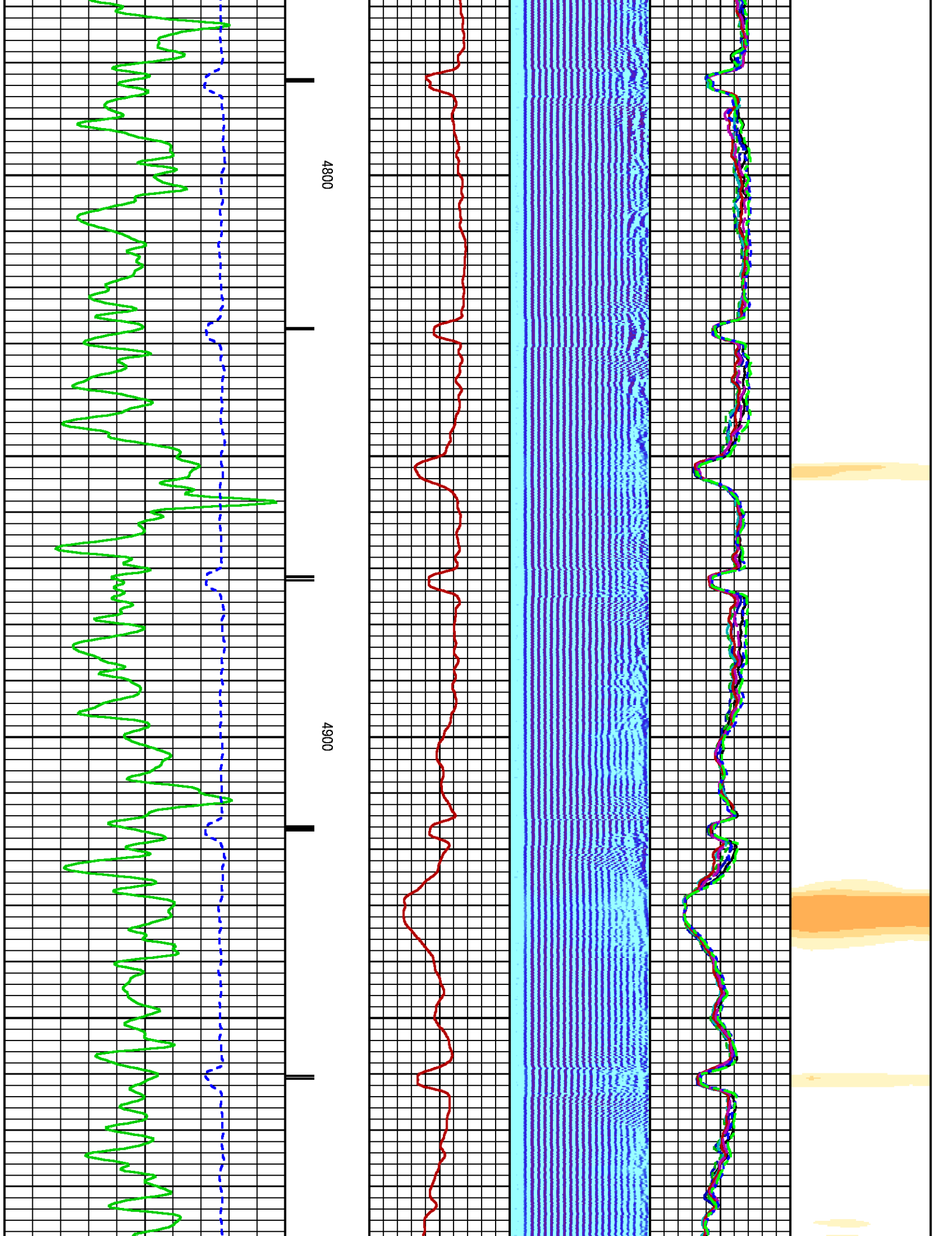


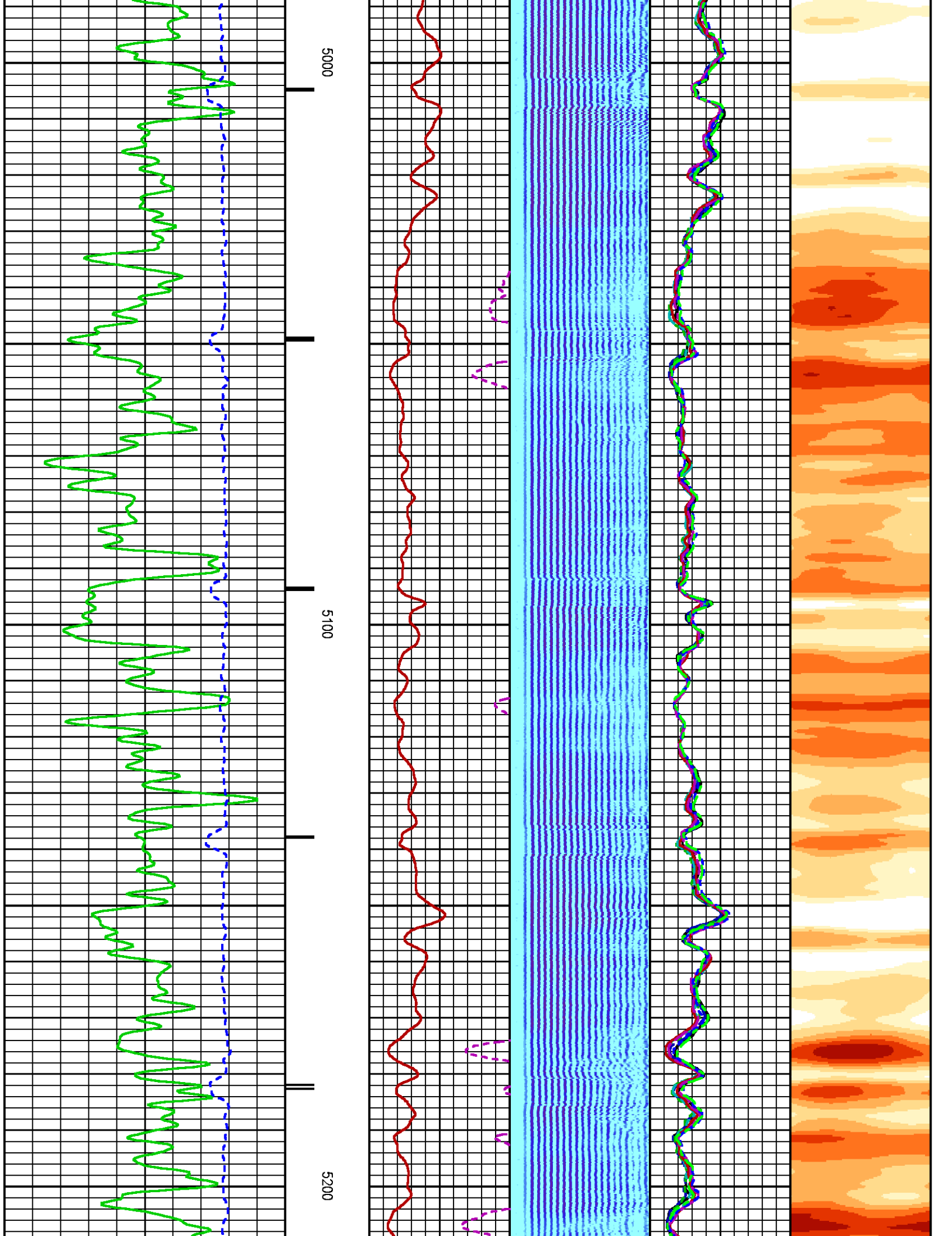


4400

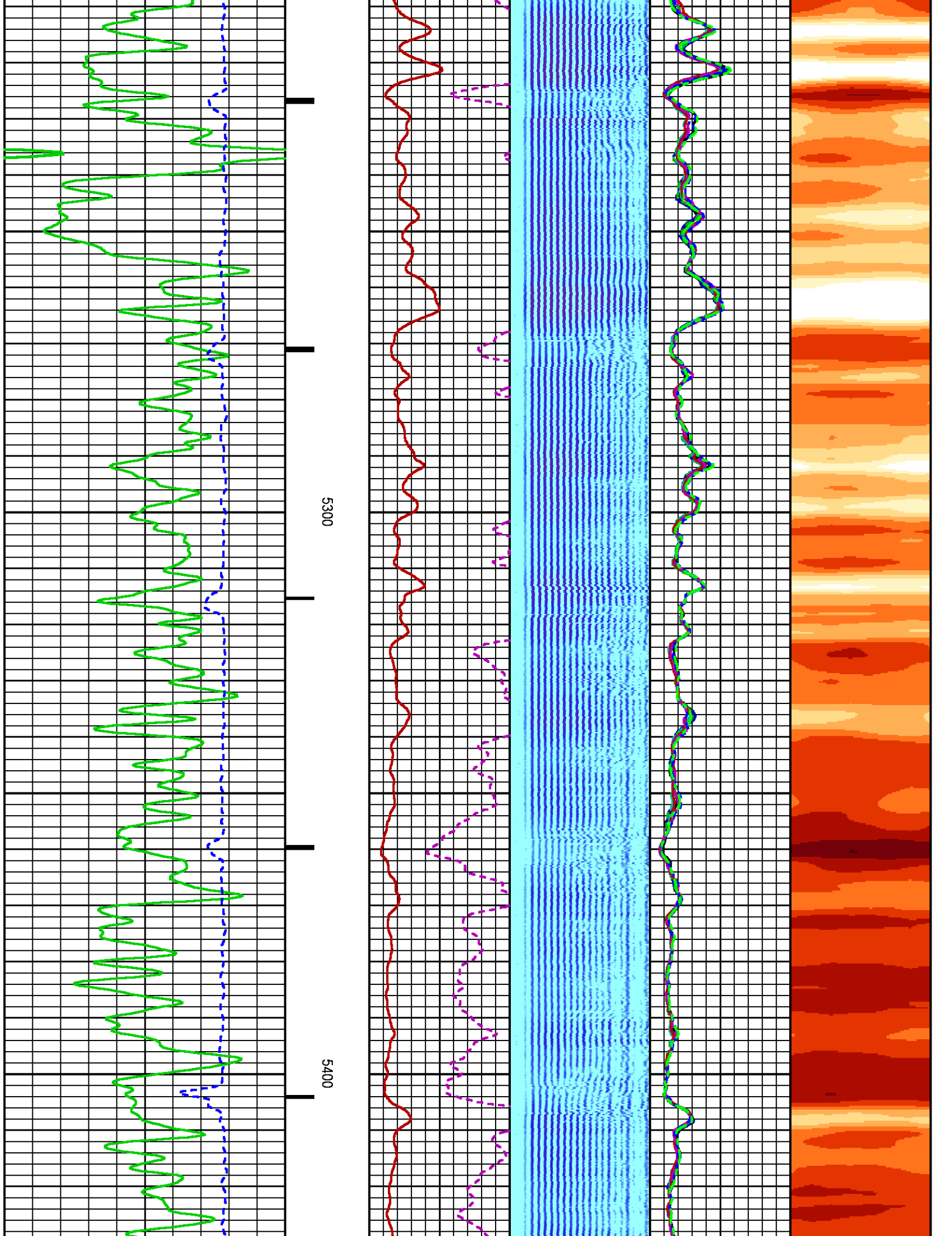
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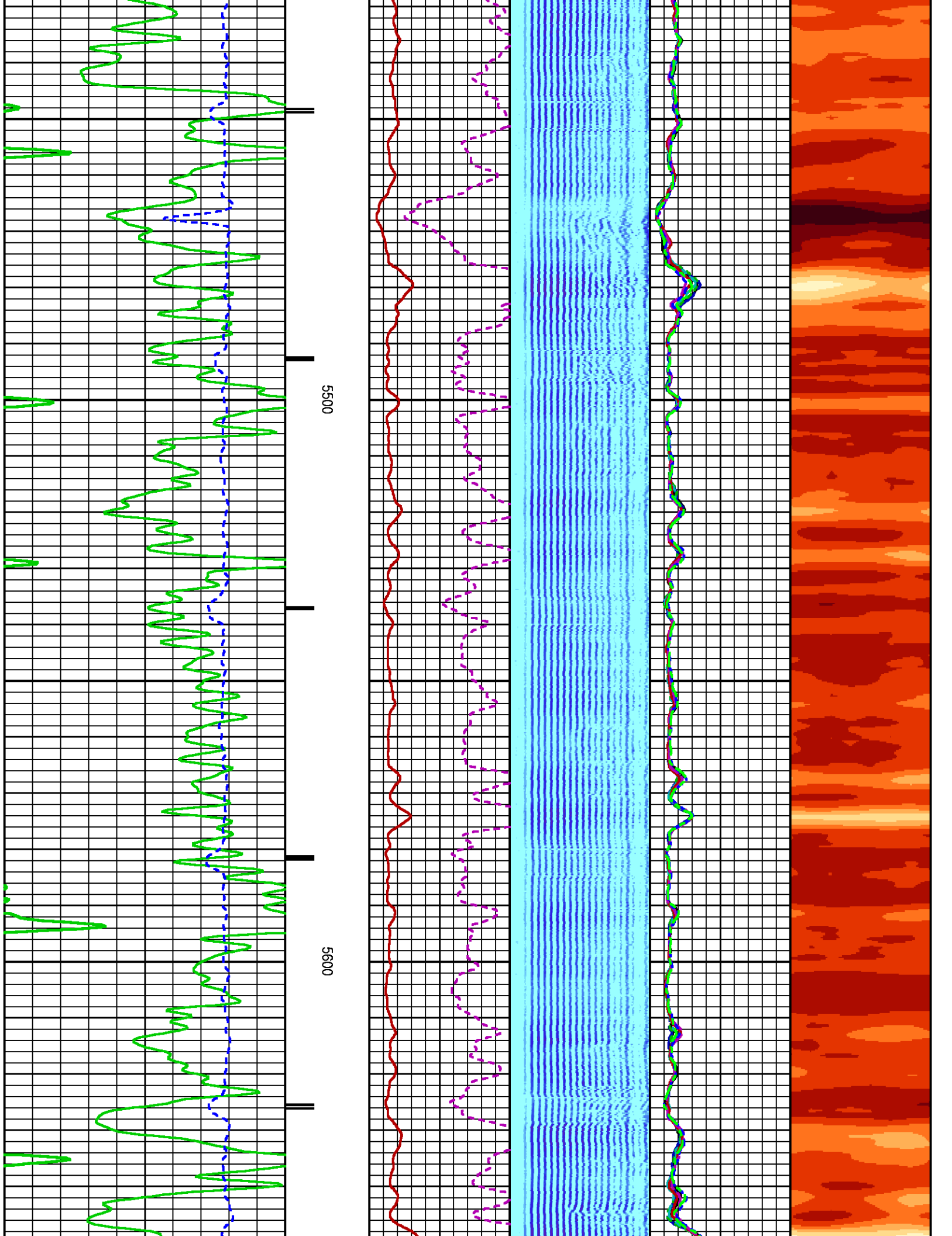


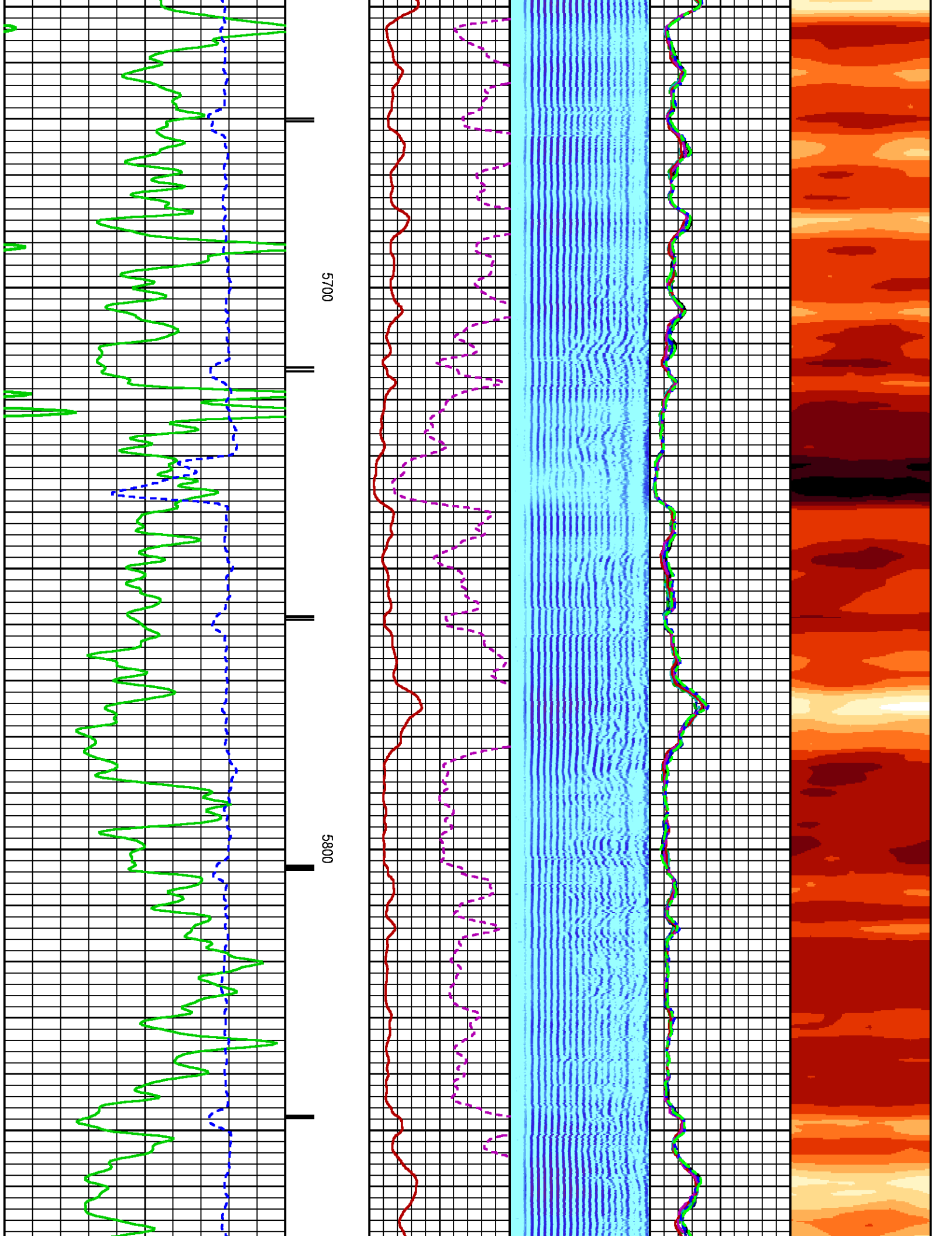


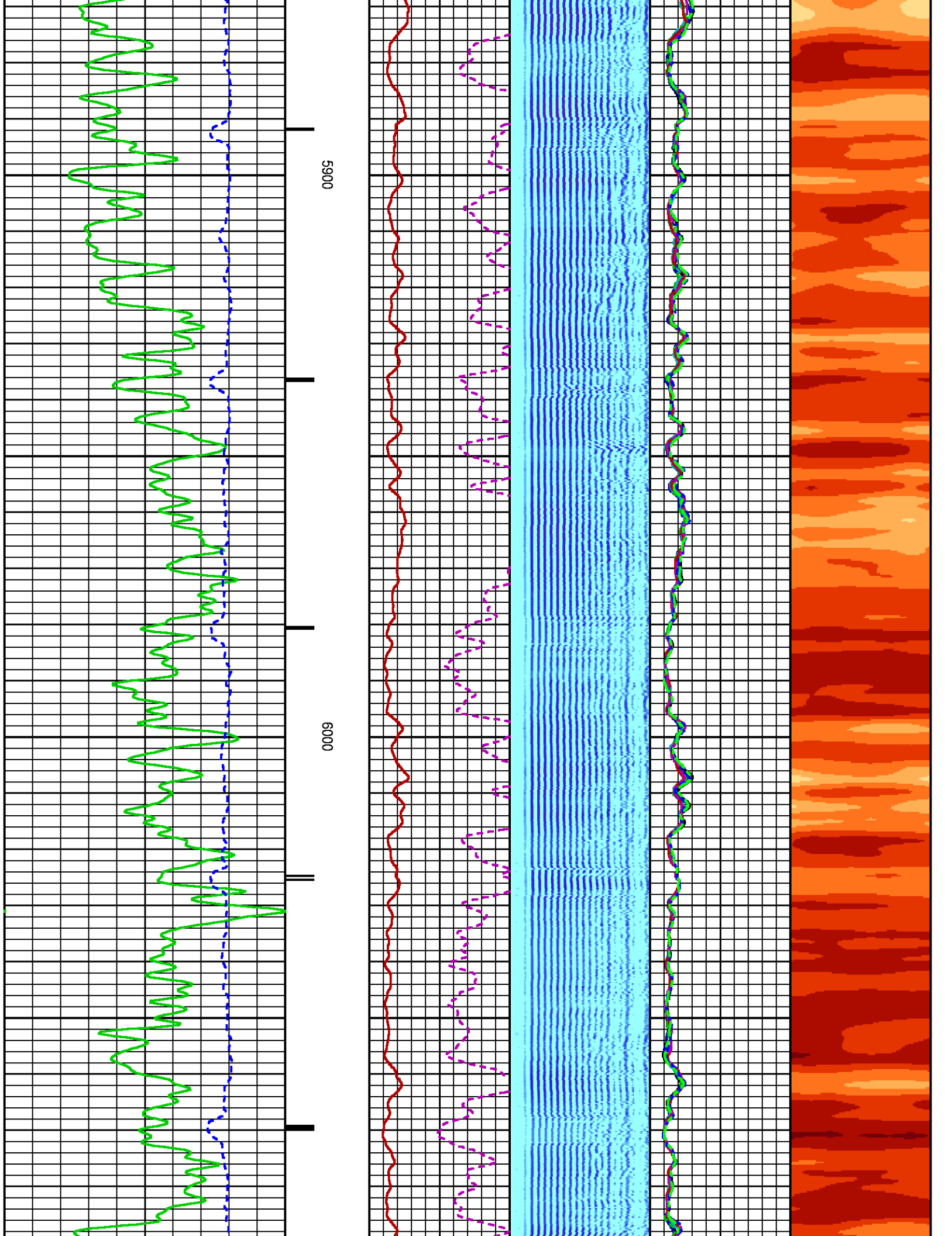




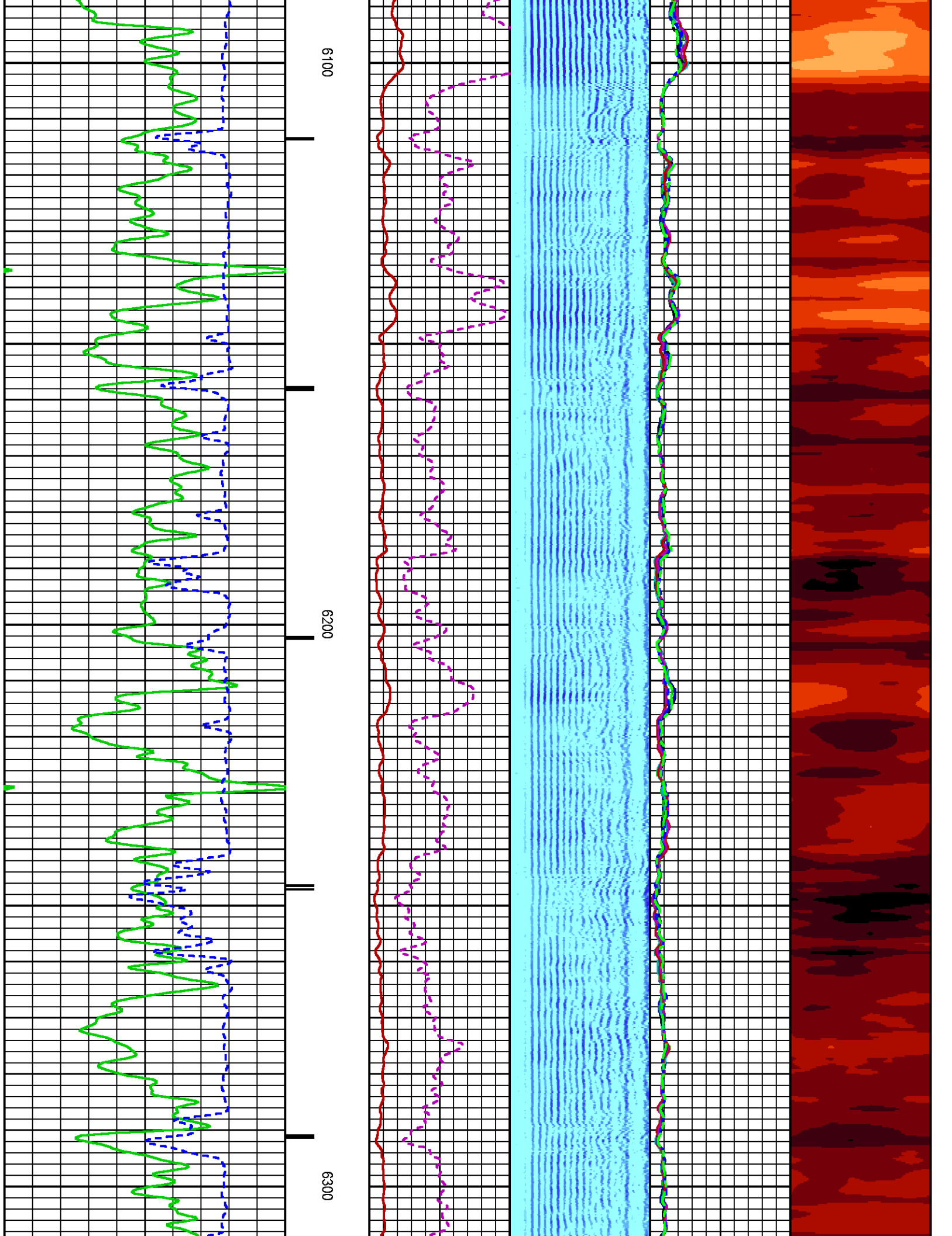


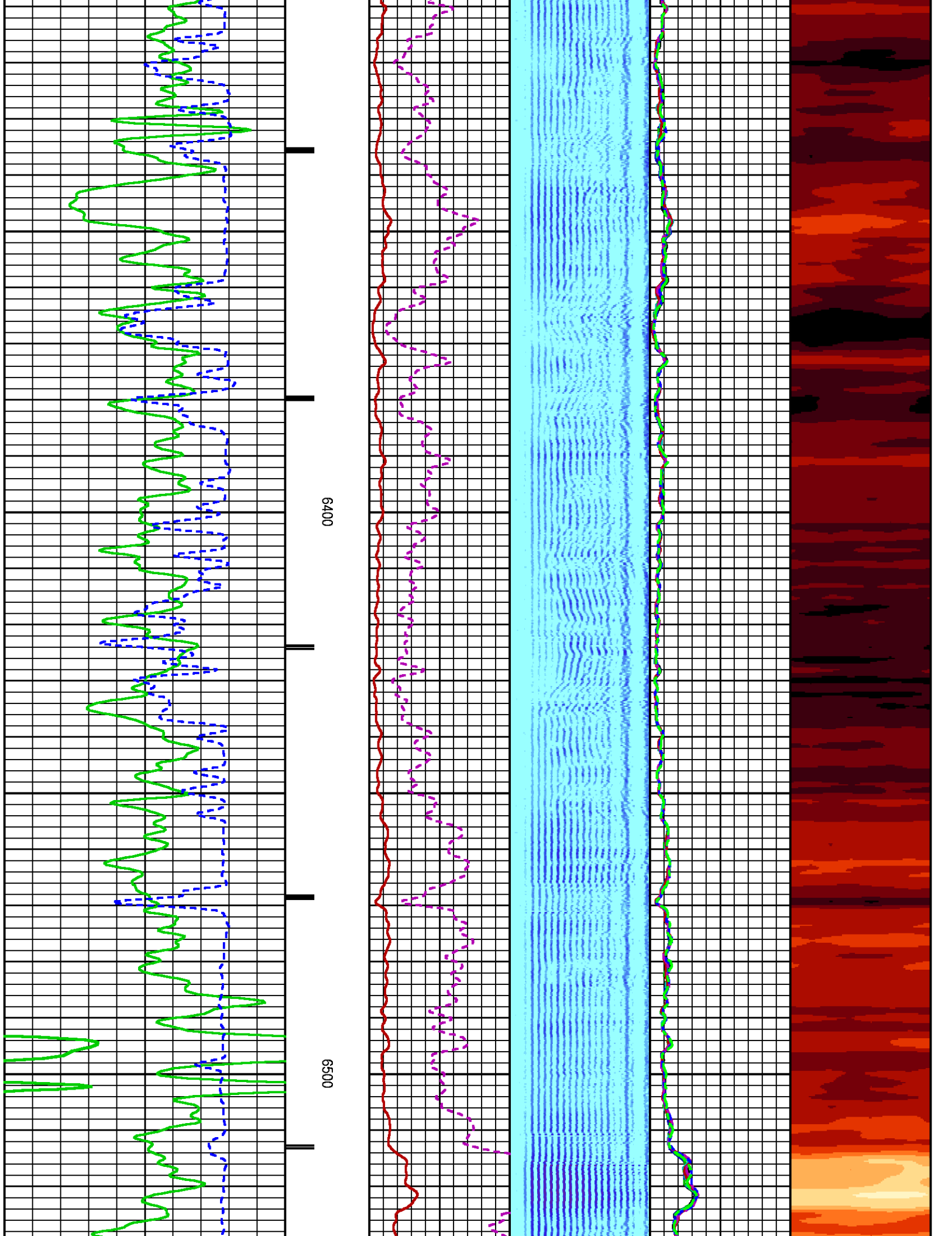


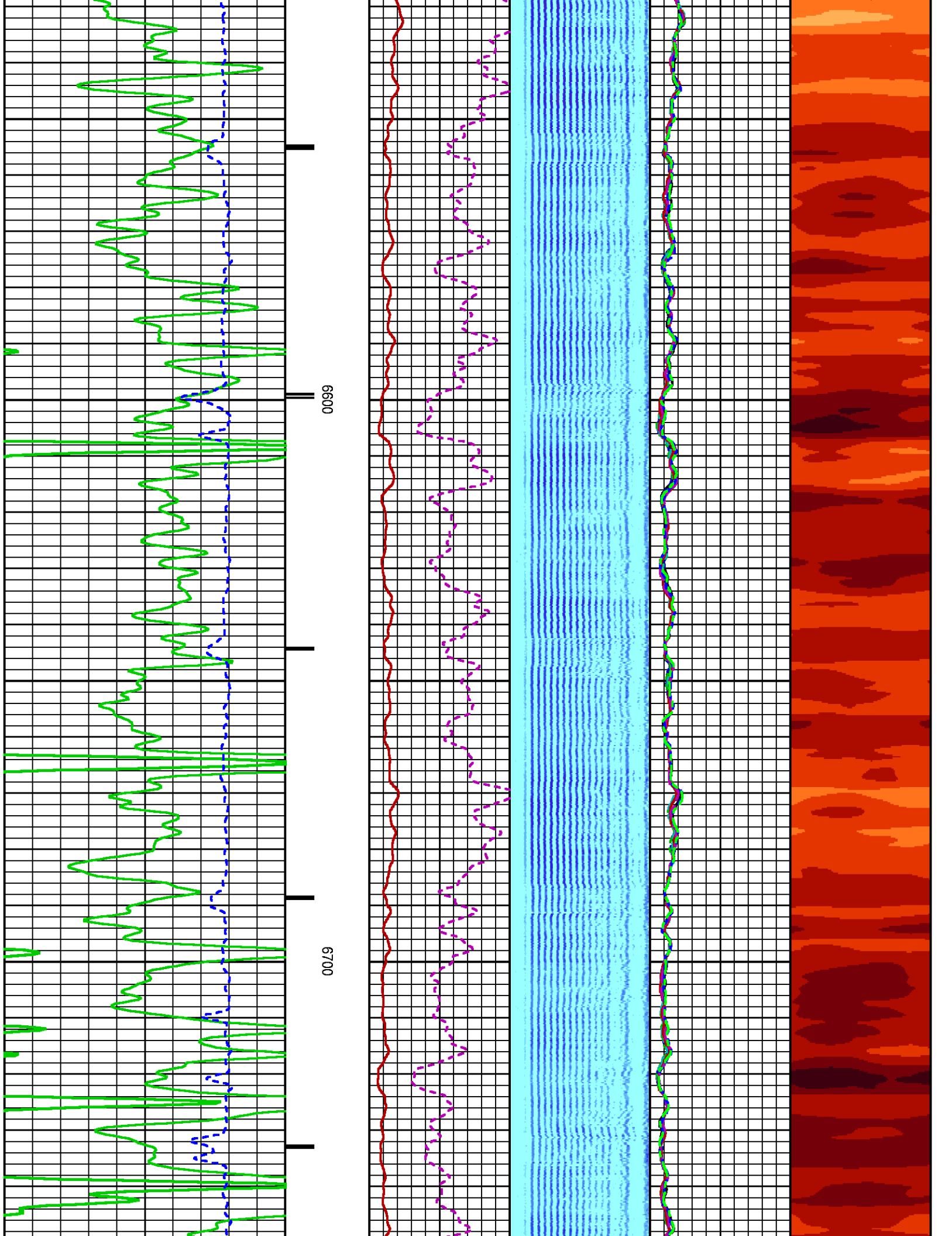


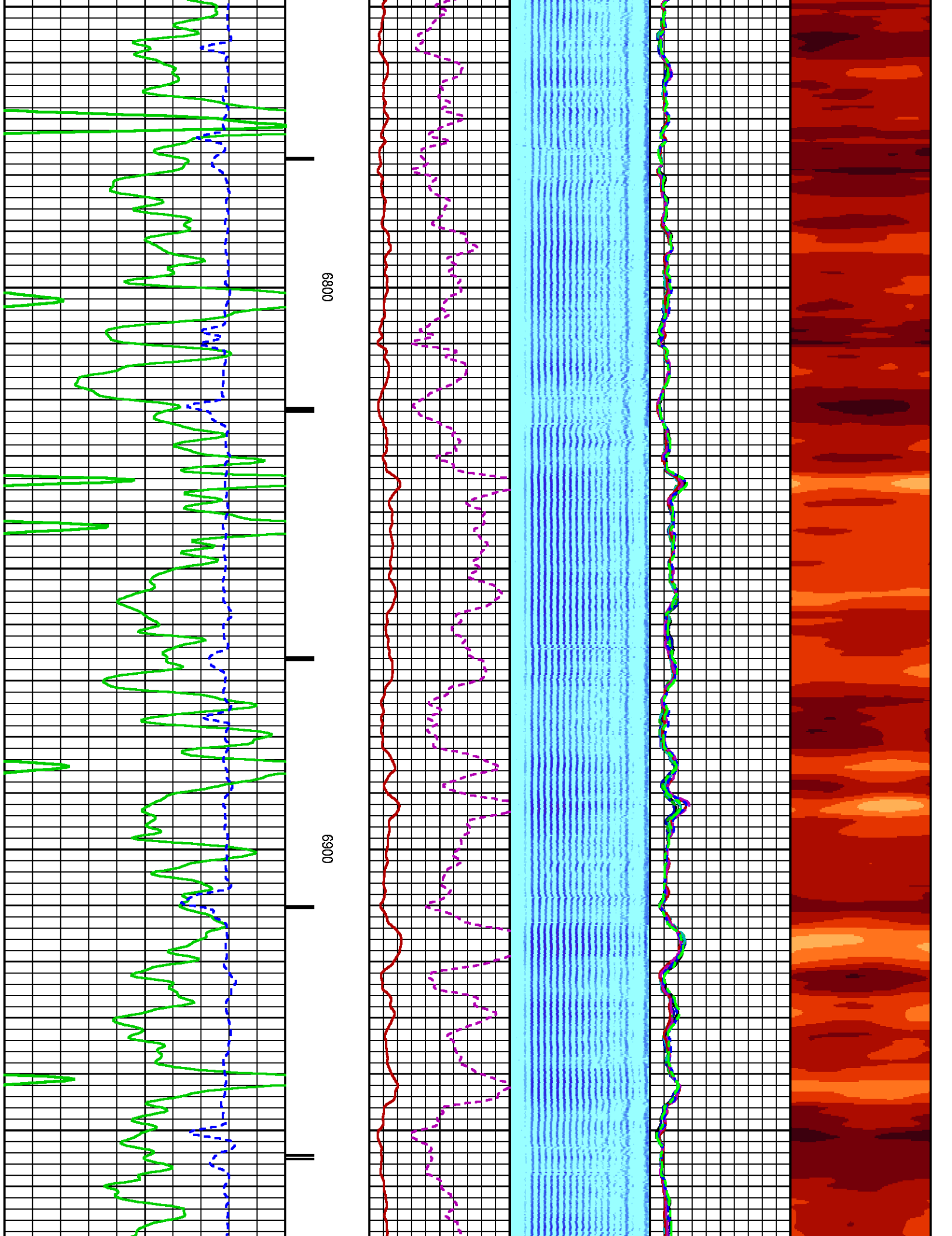




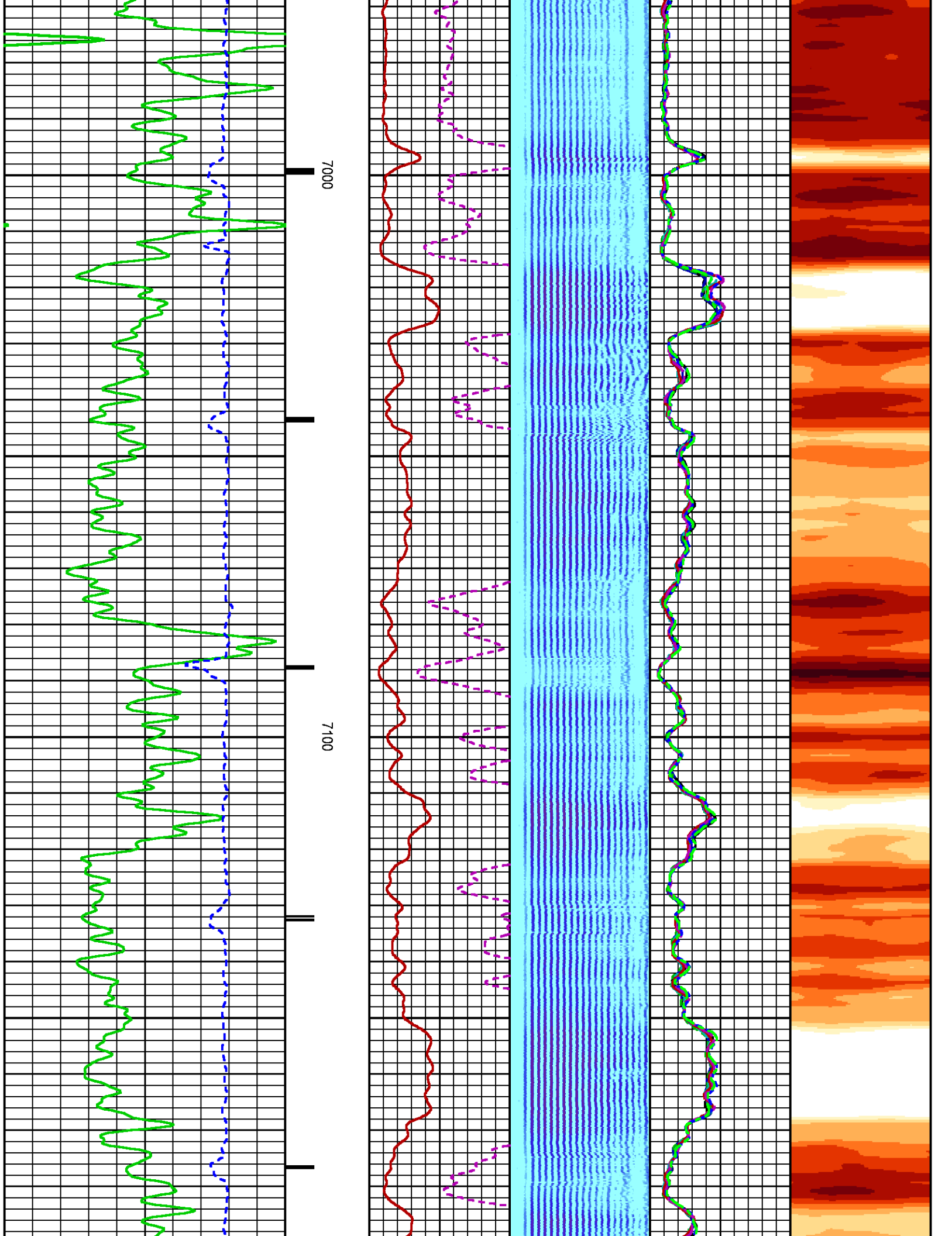


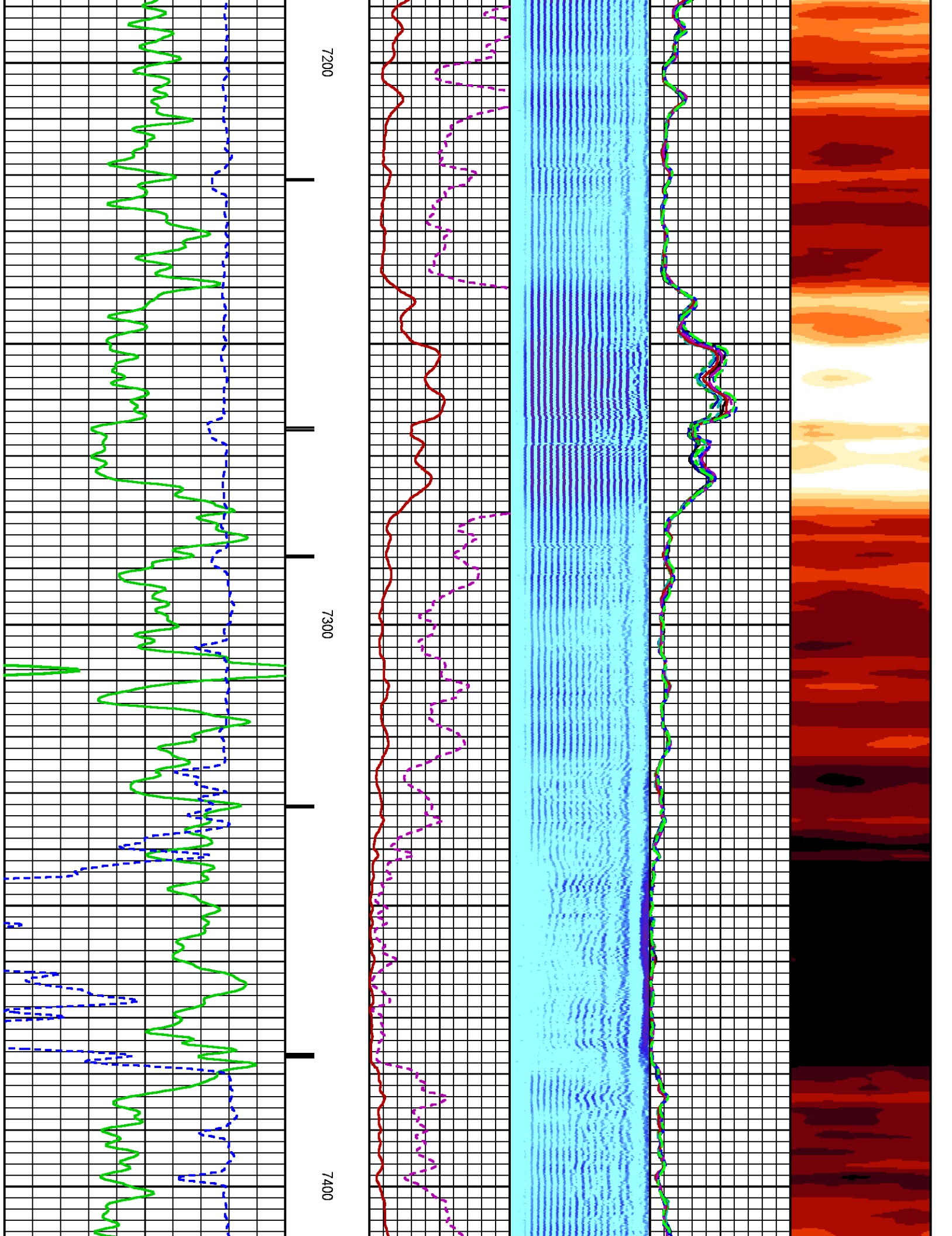


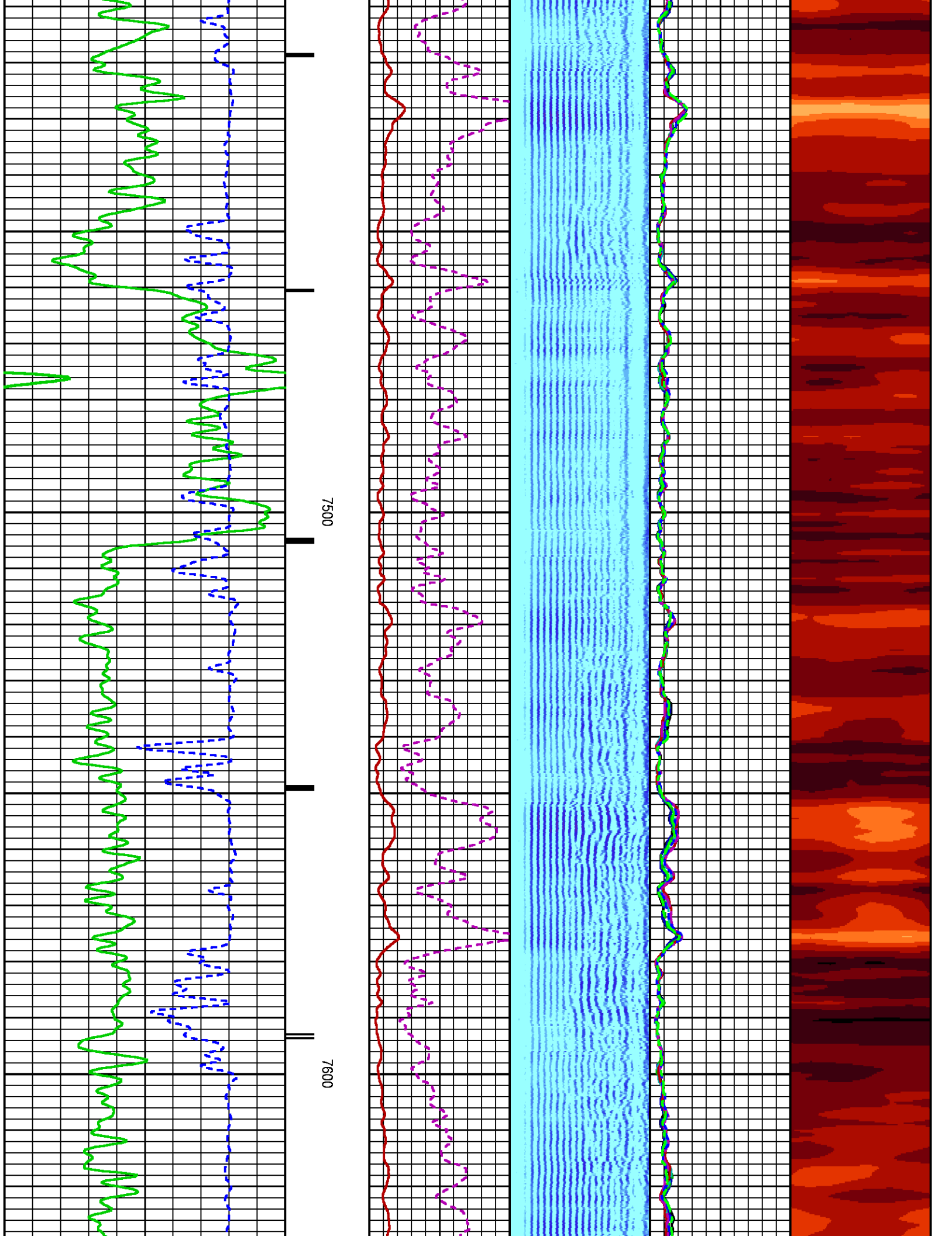


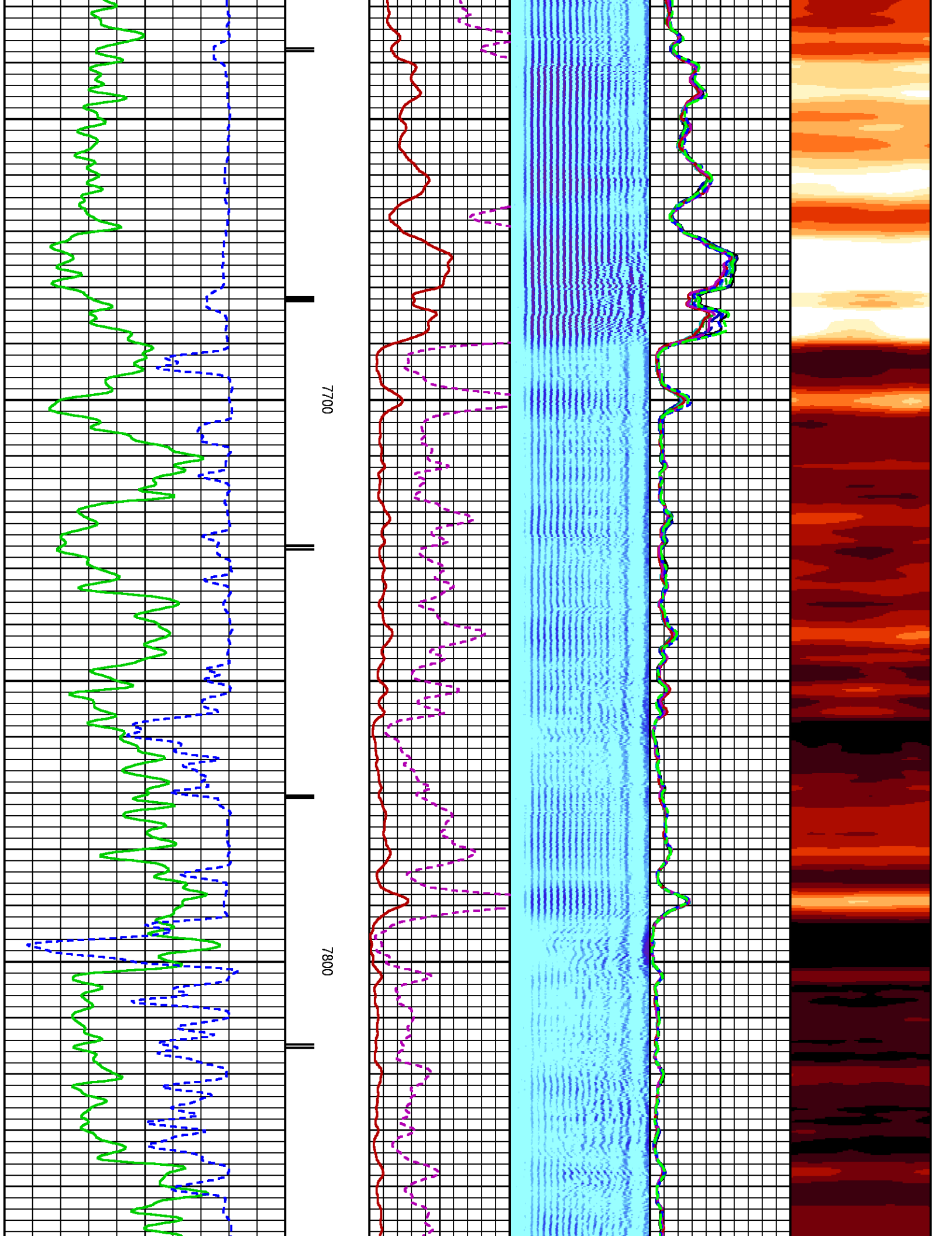




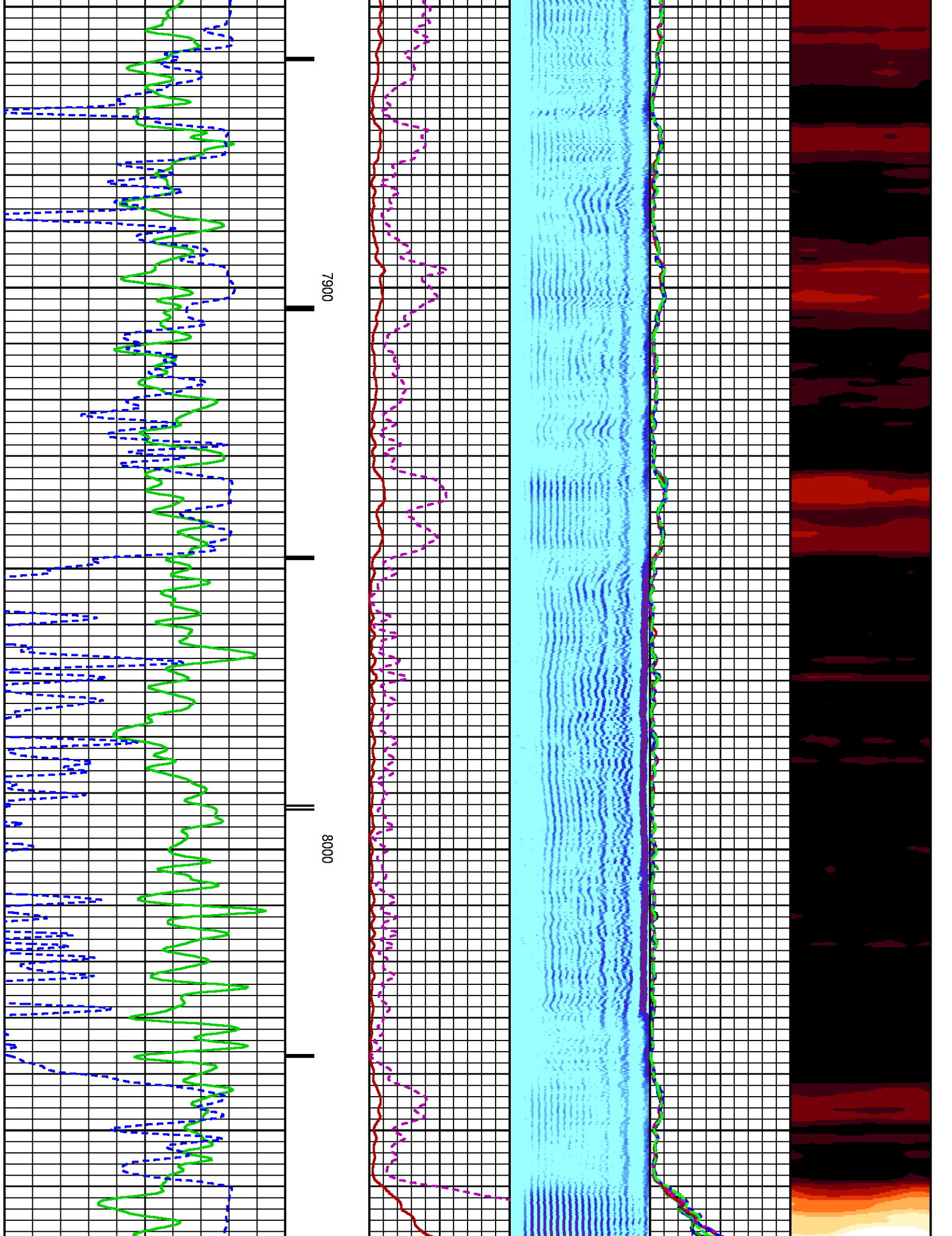


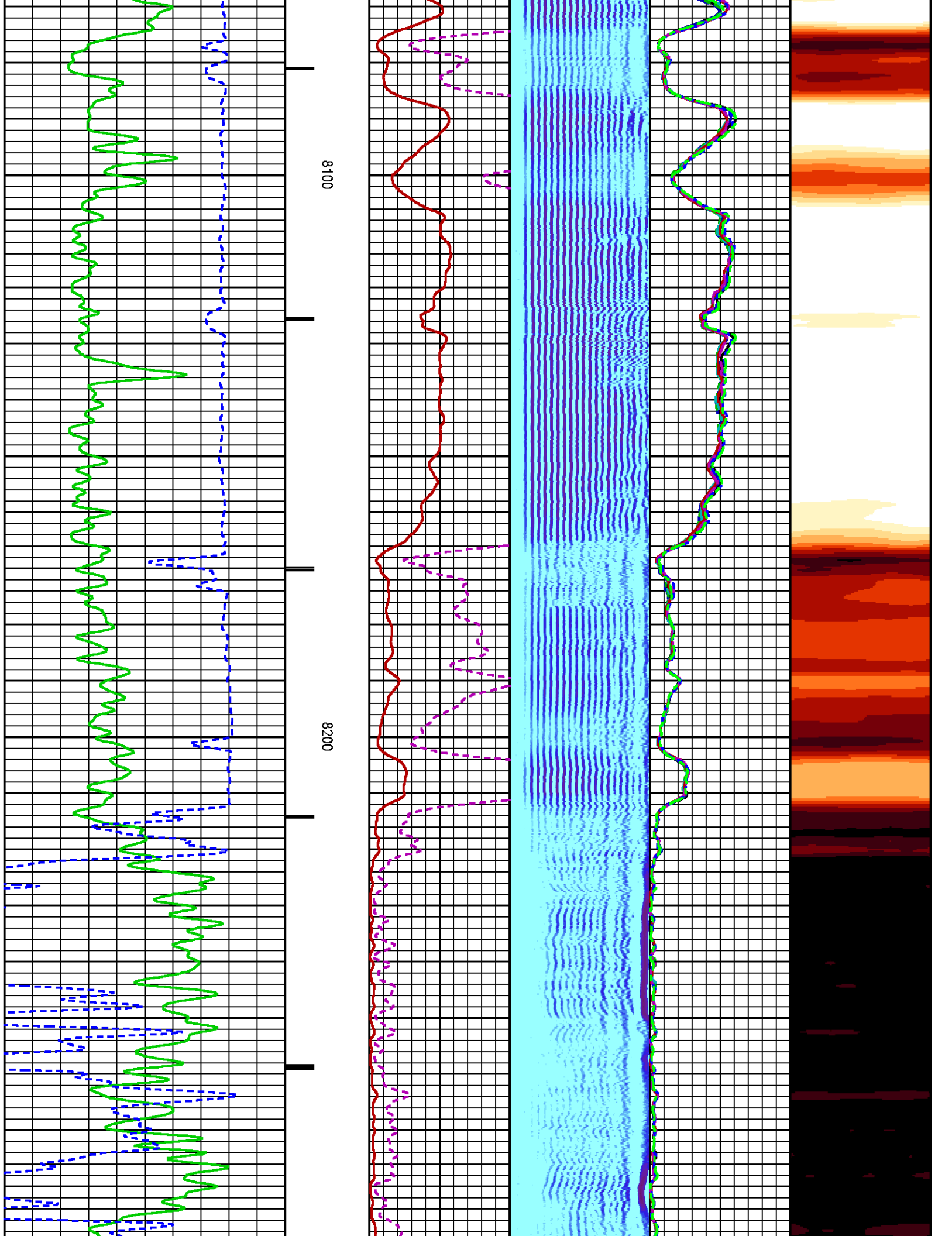


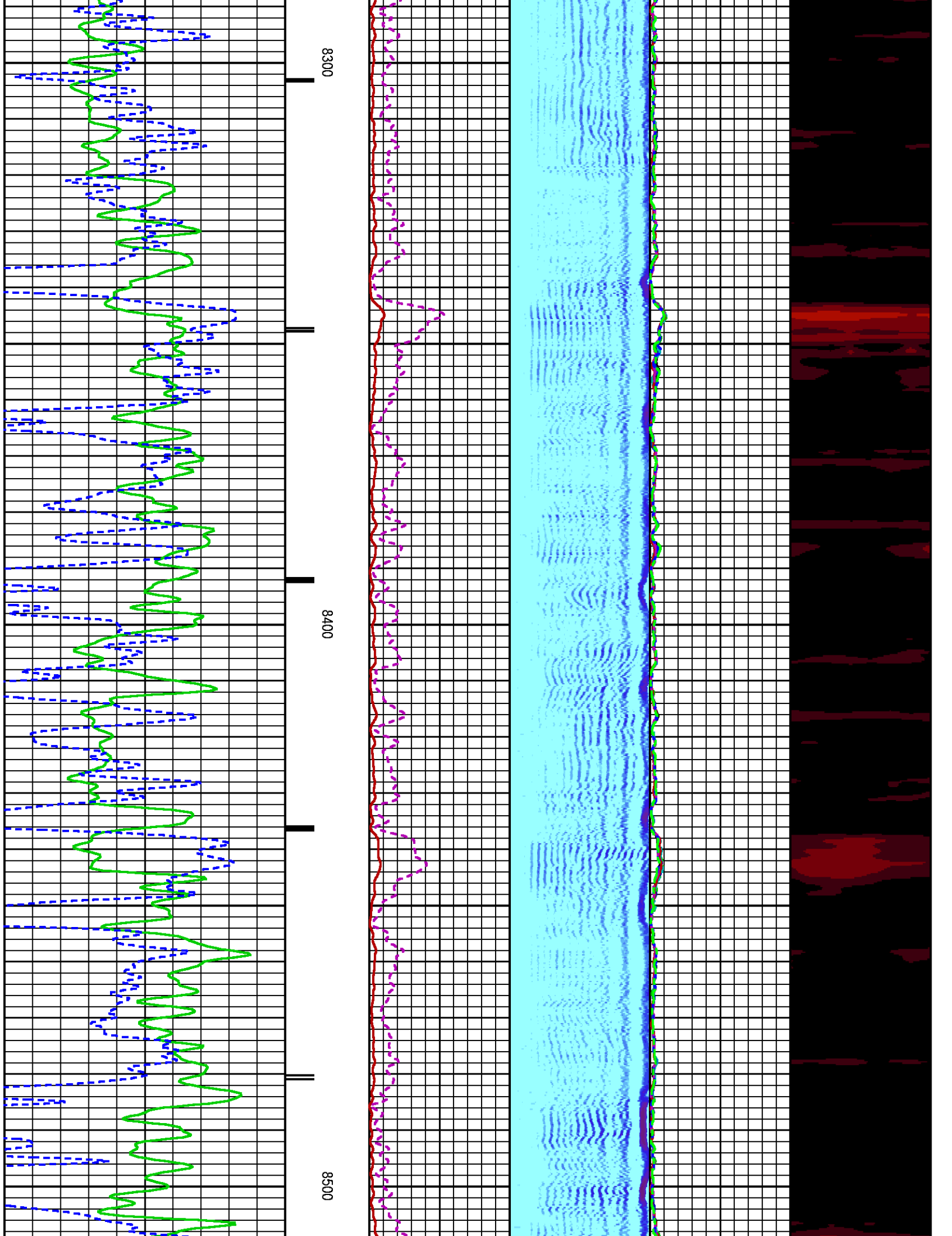


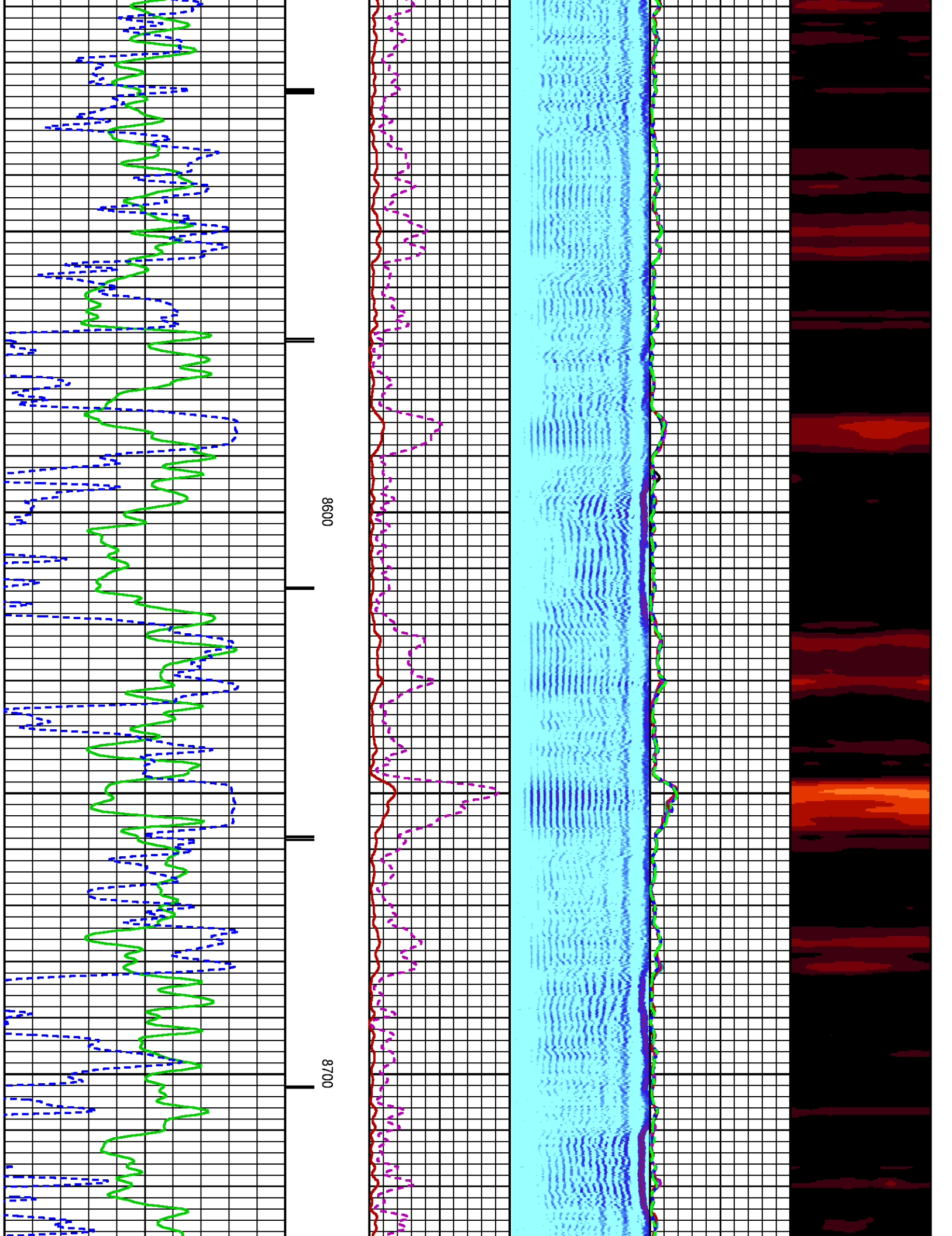




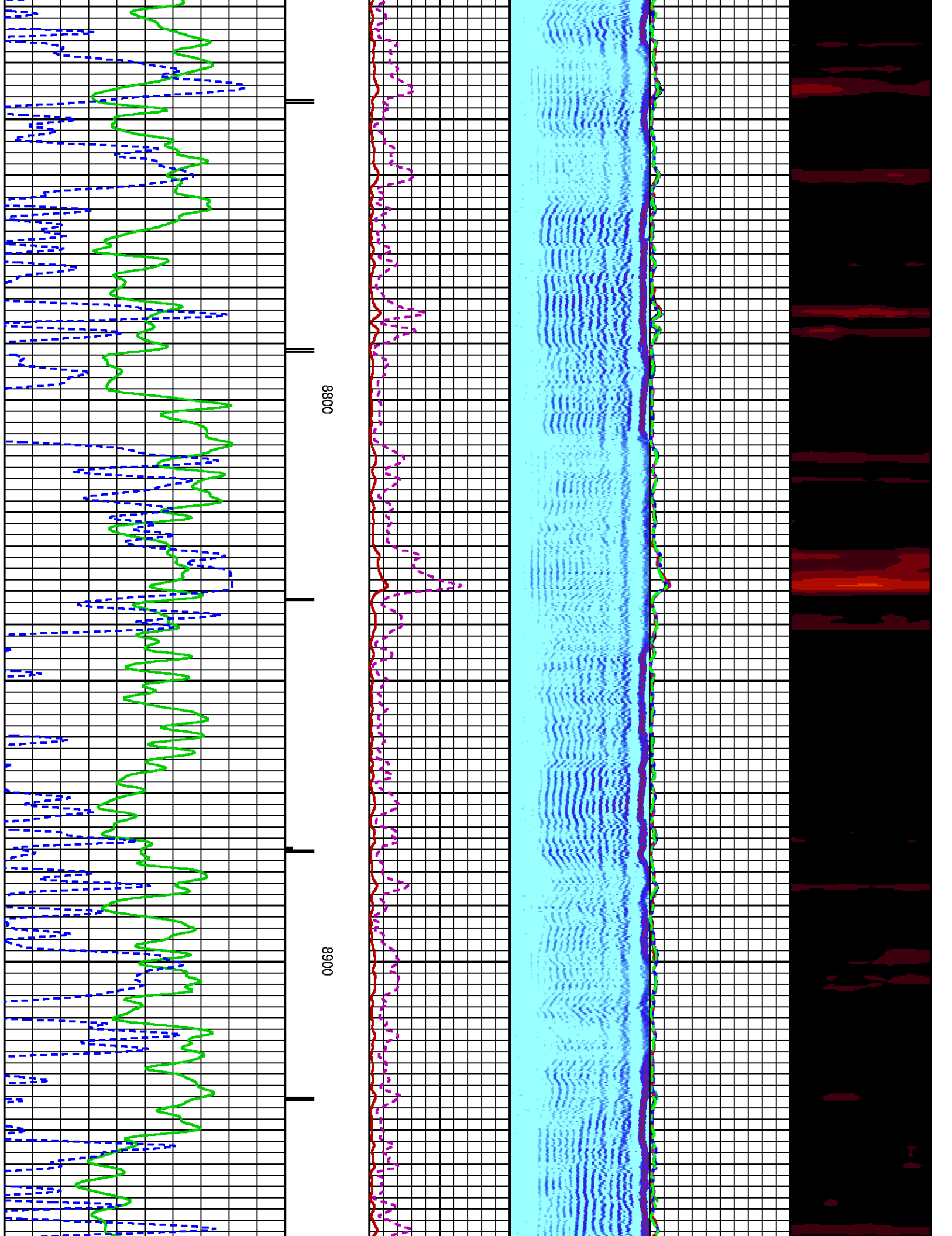


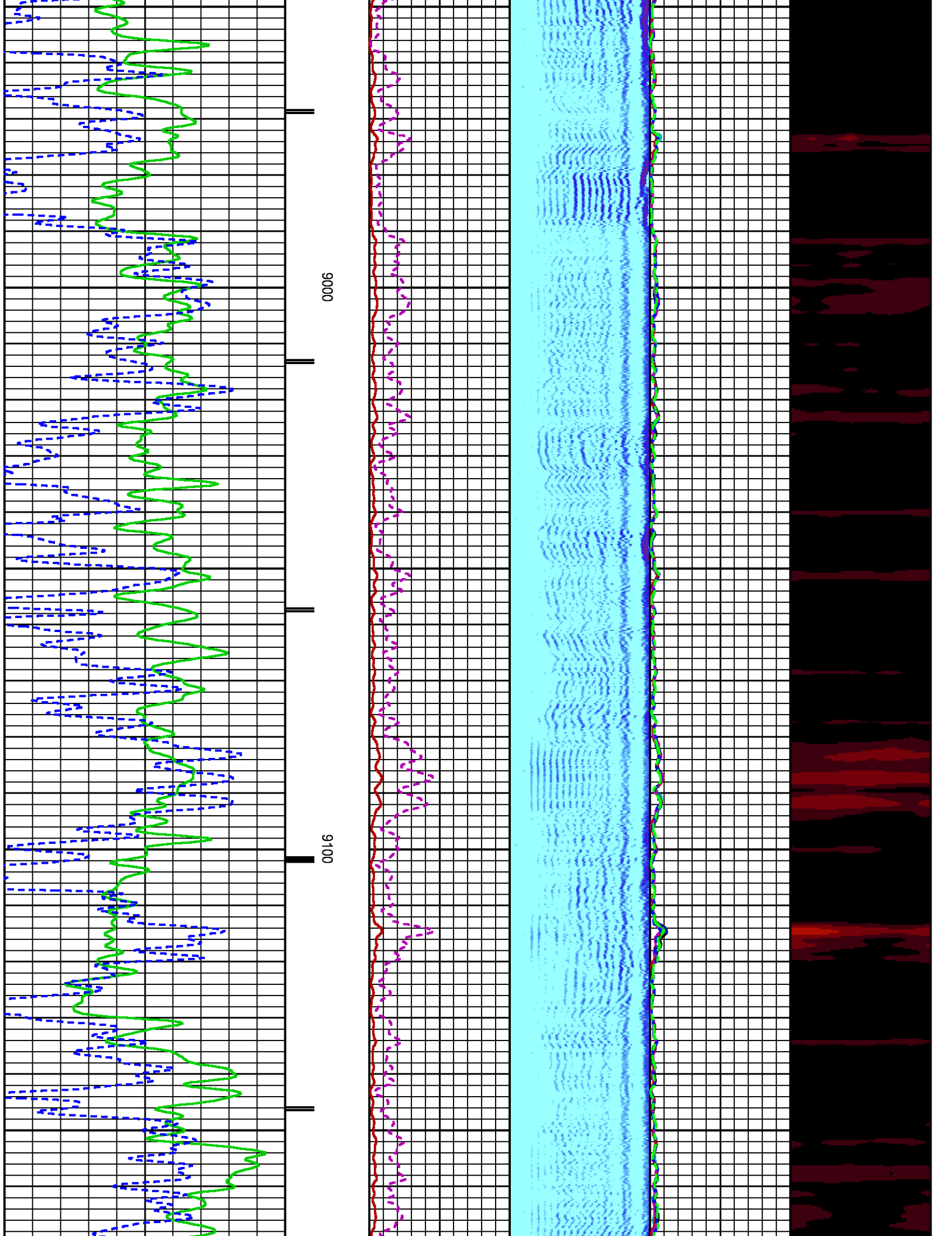


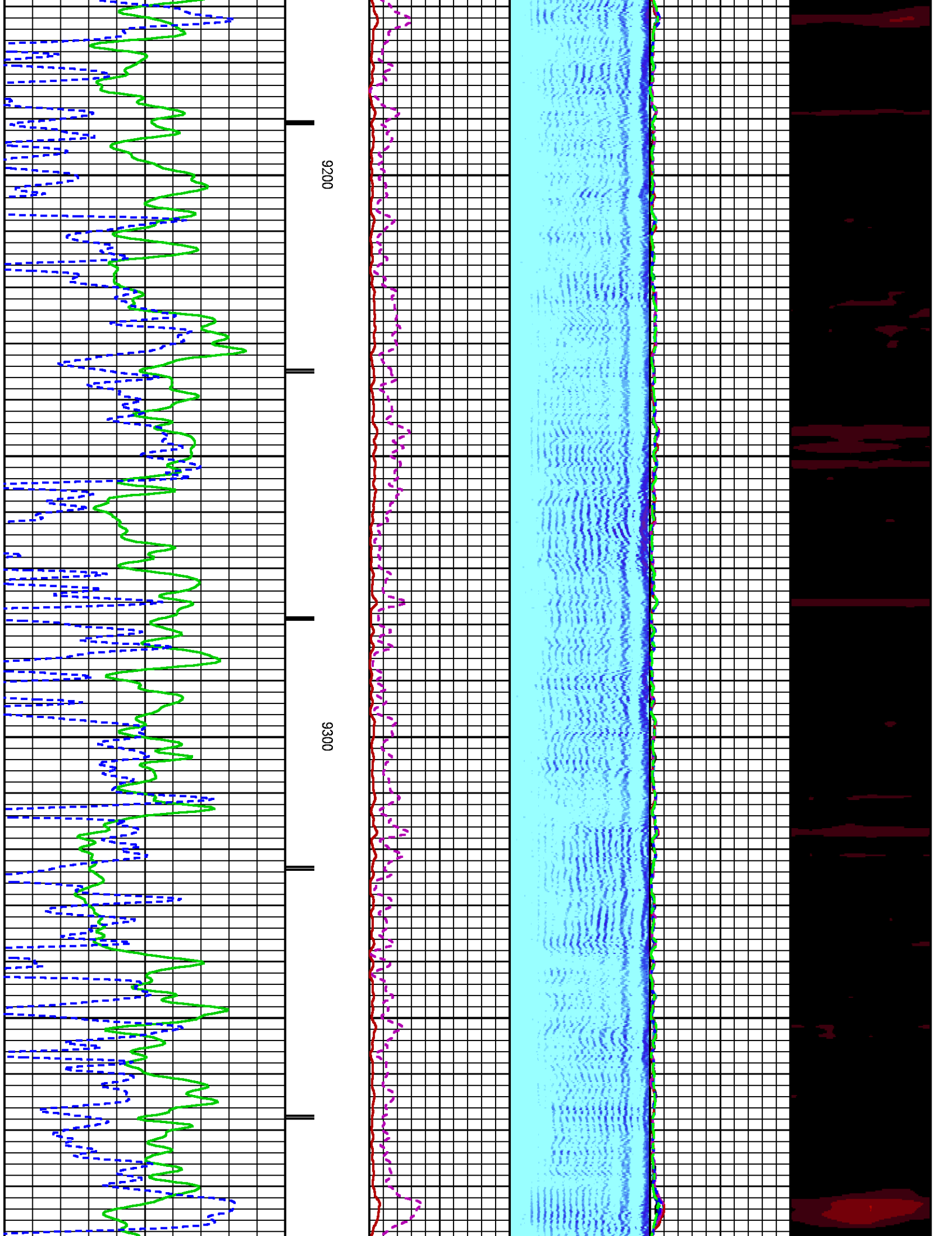


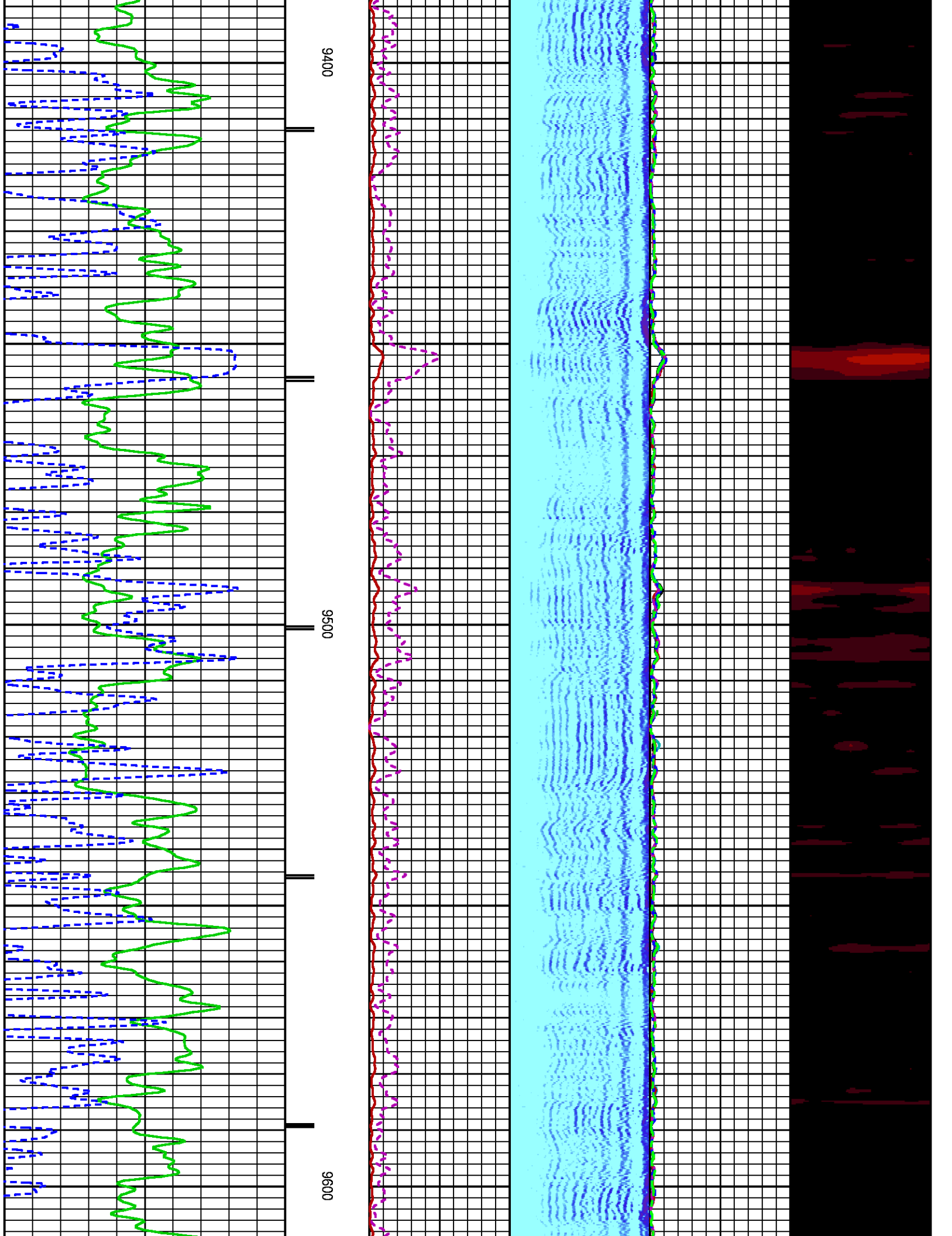




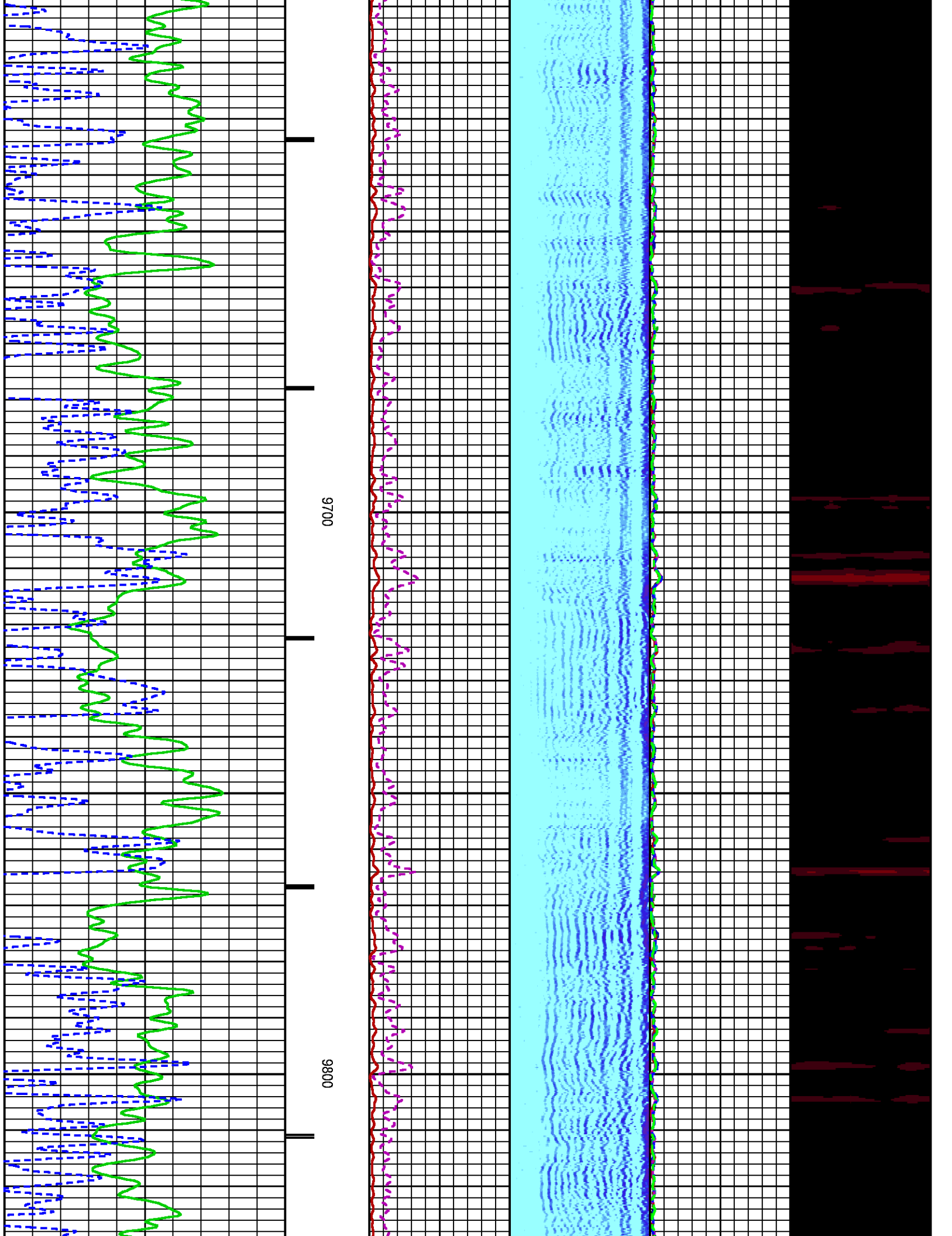


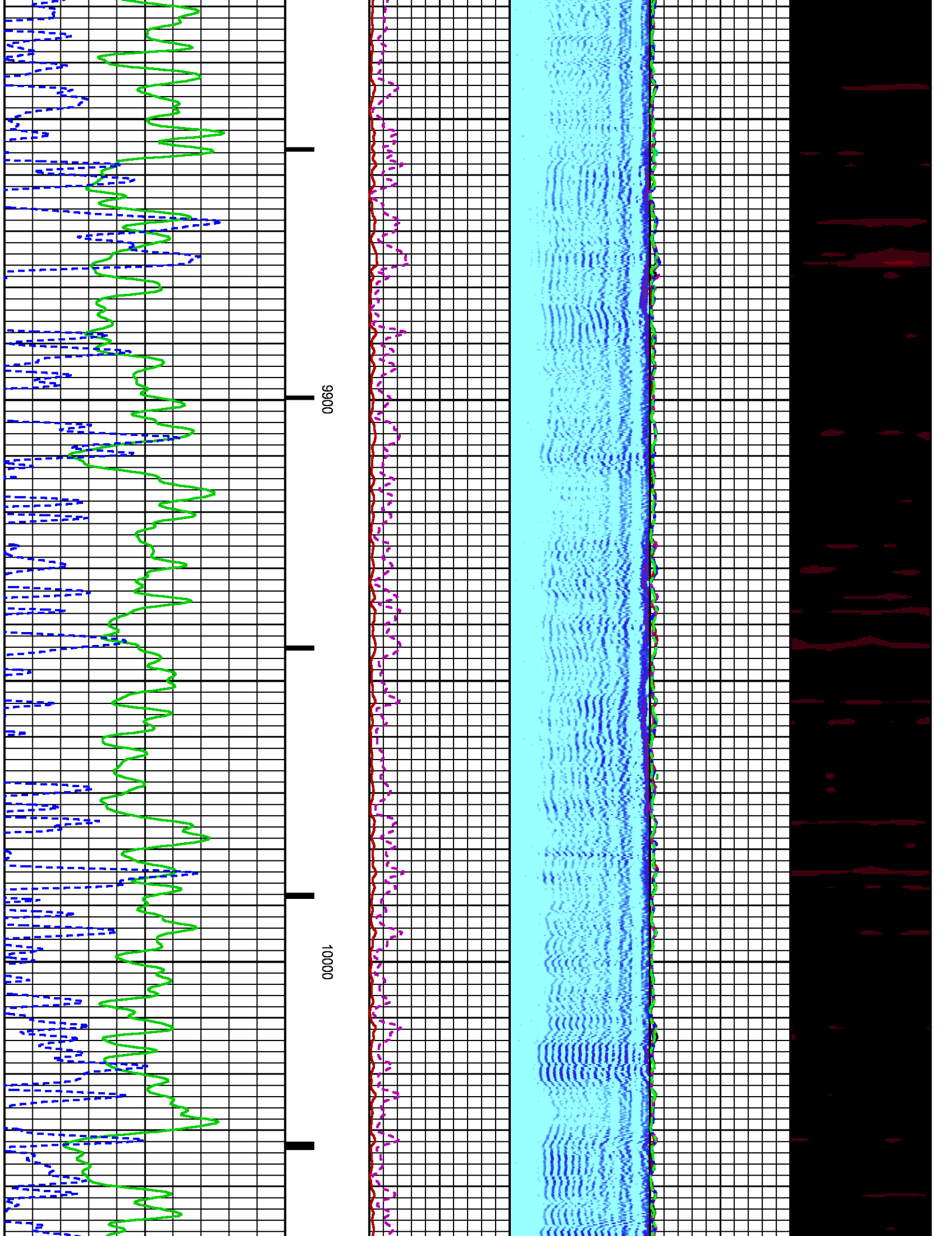


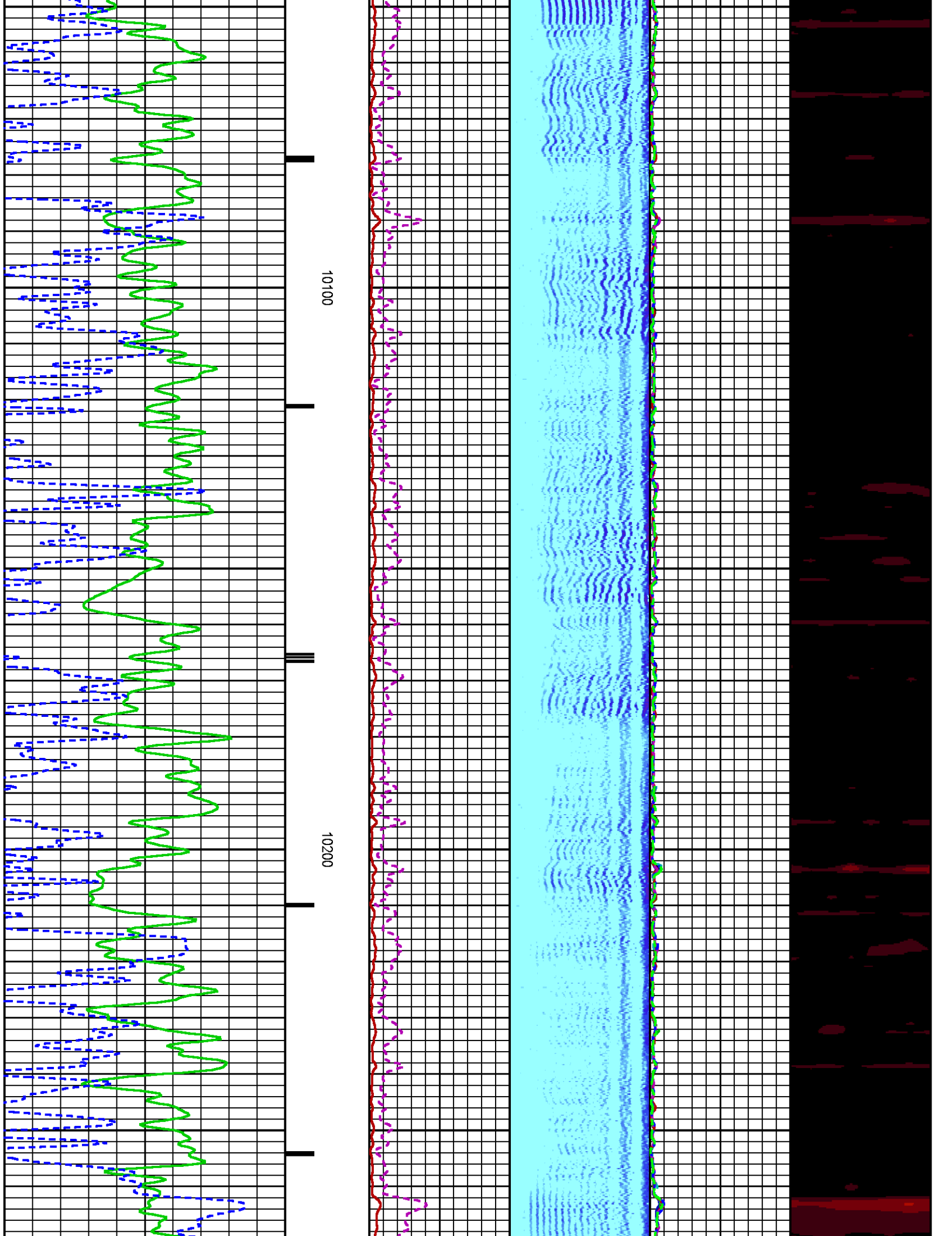


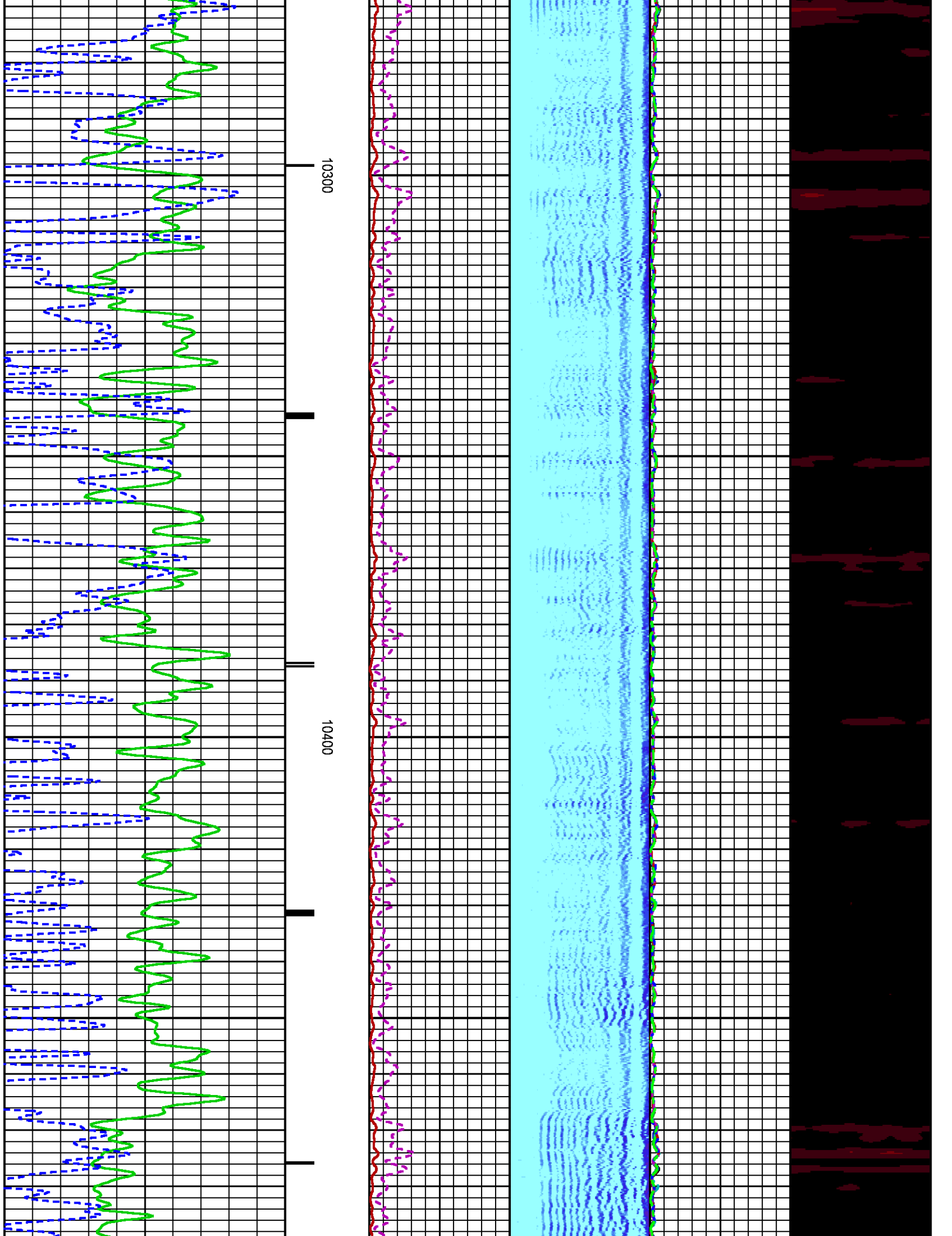




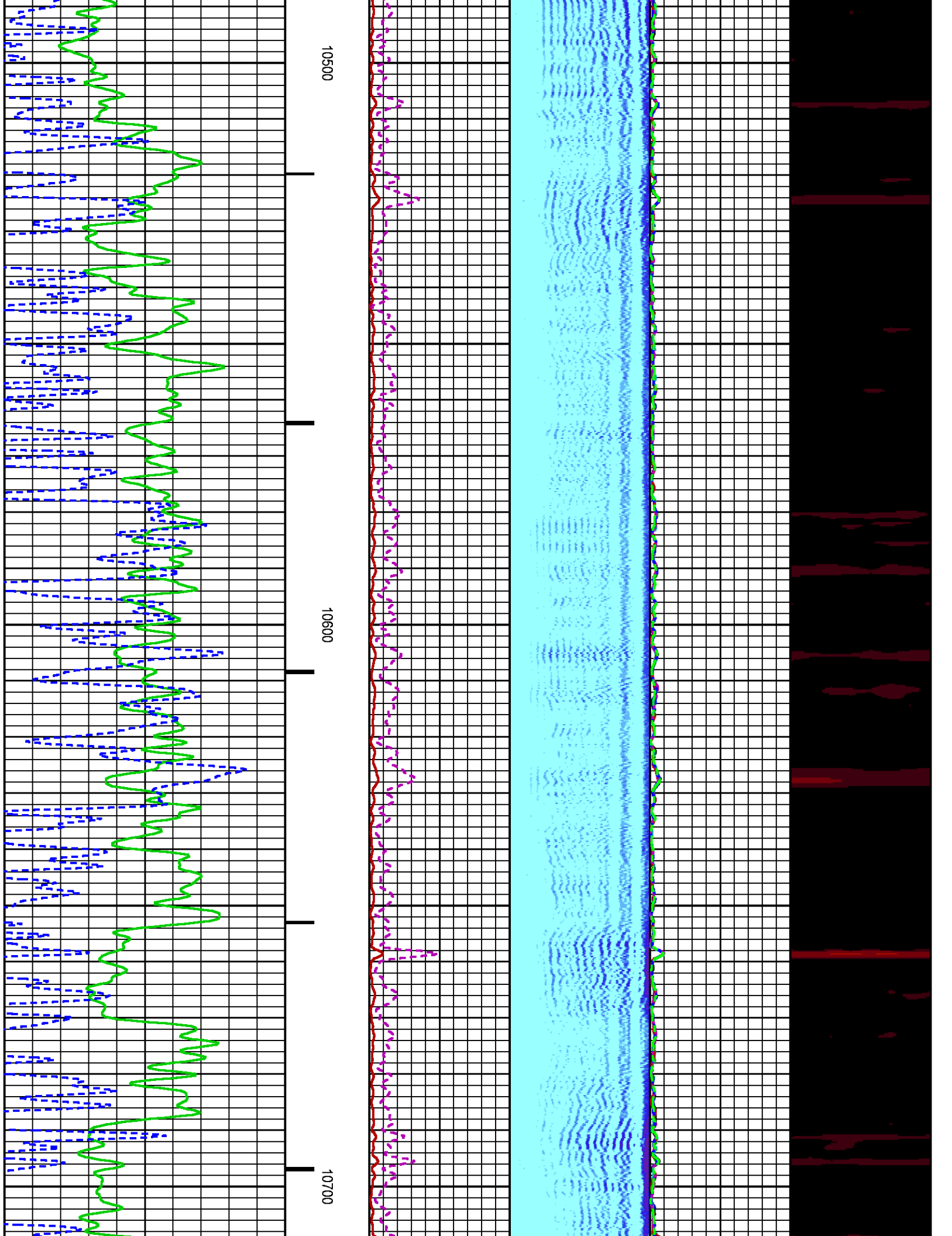


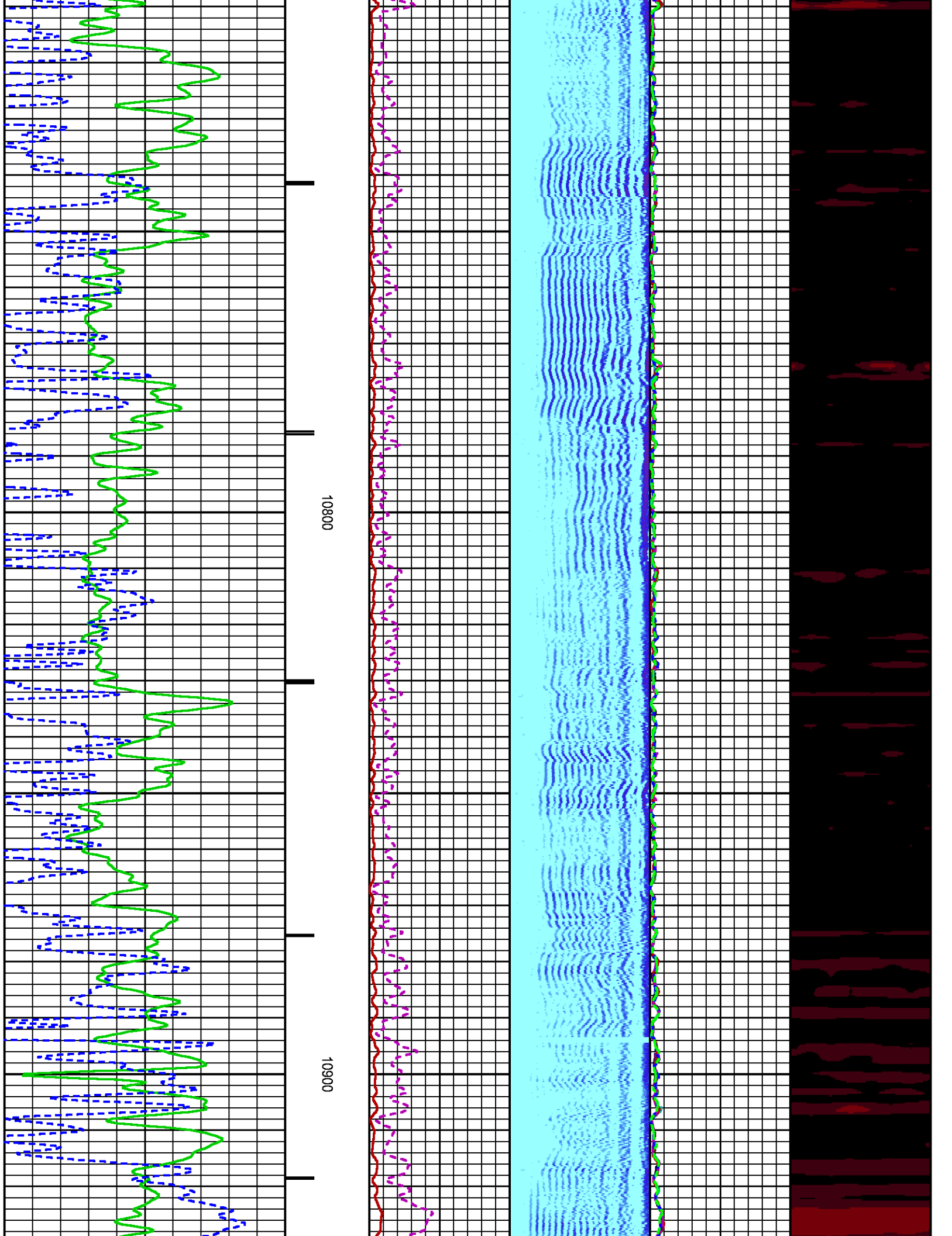


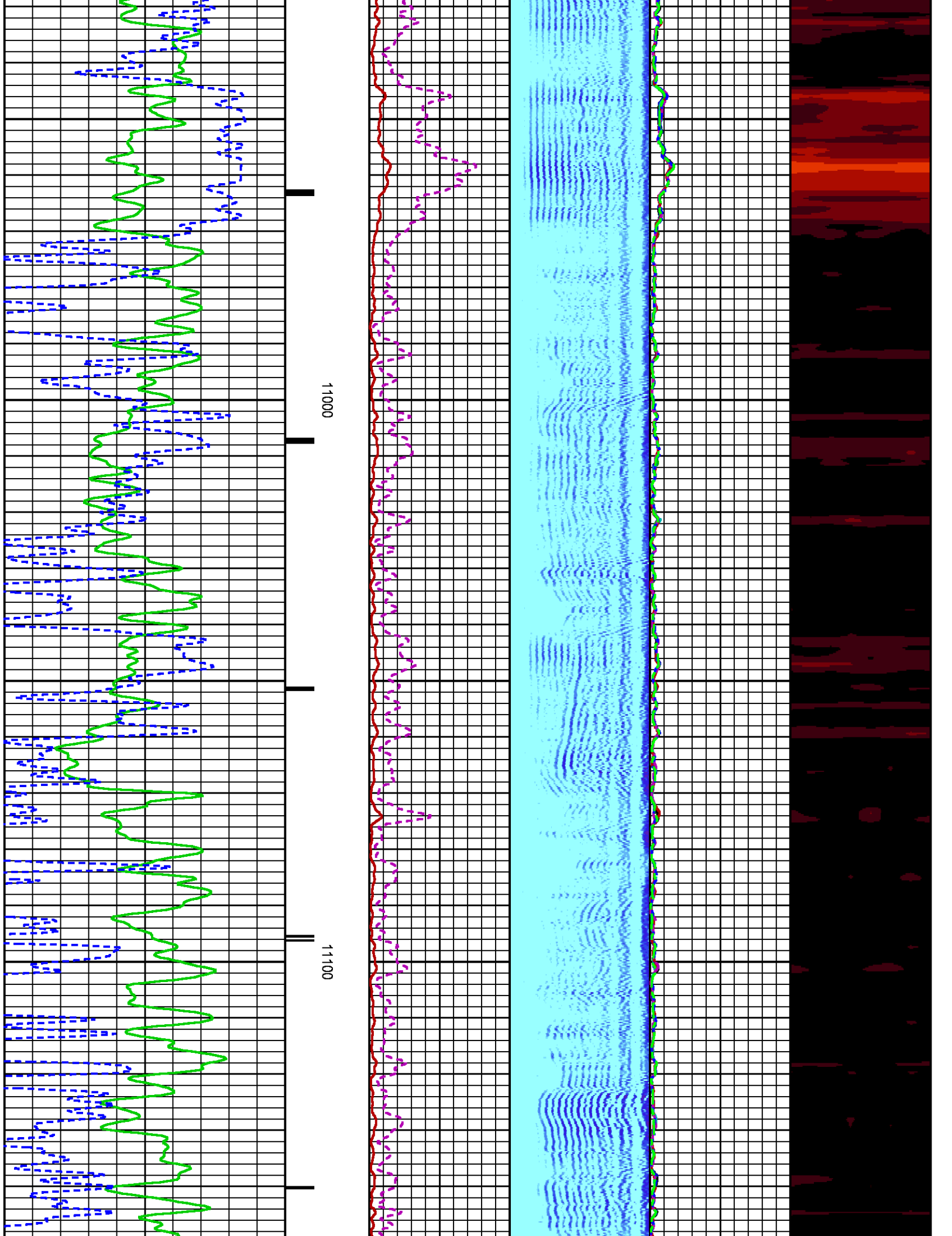


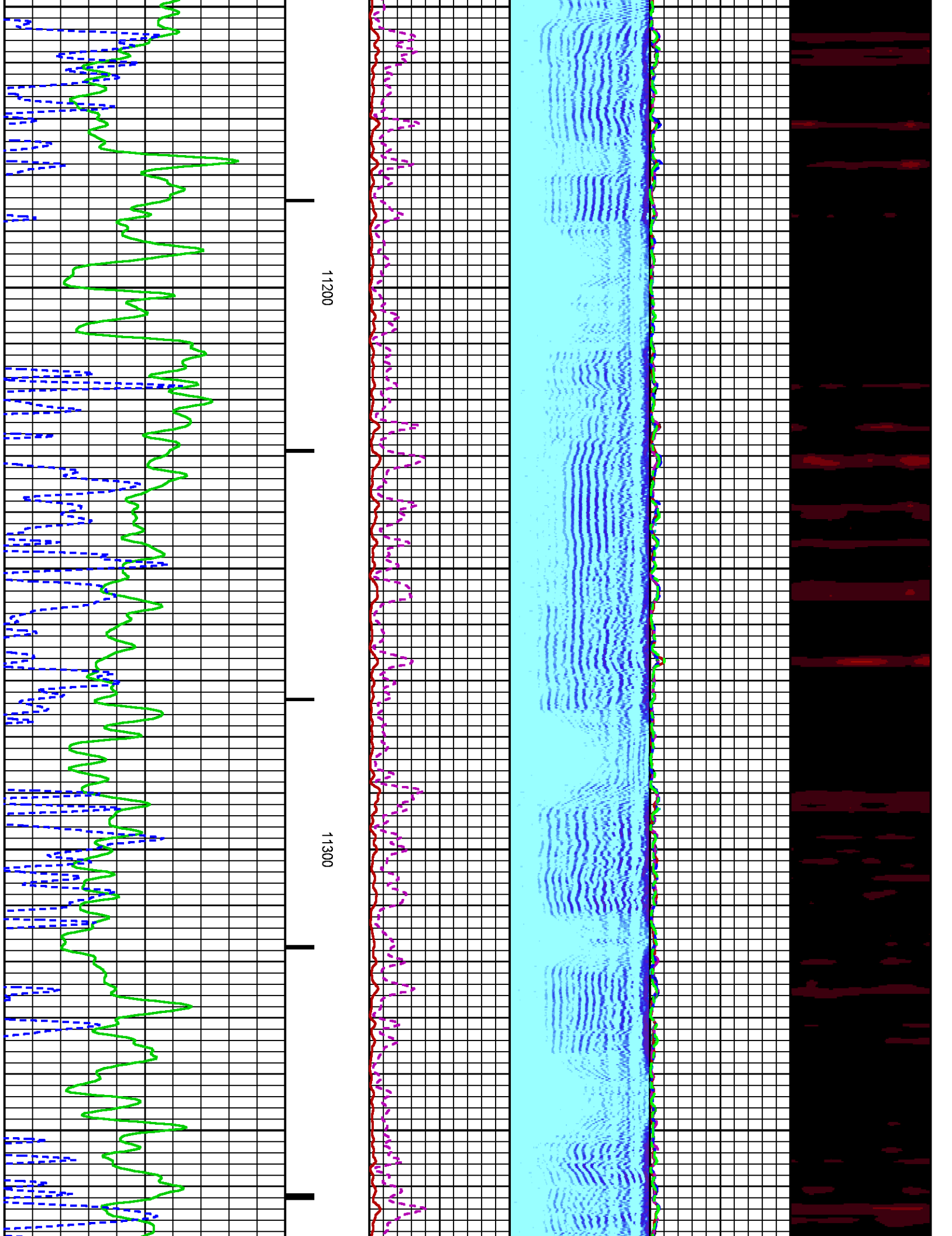




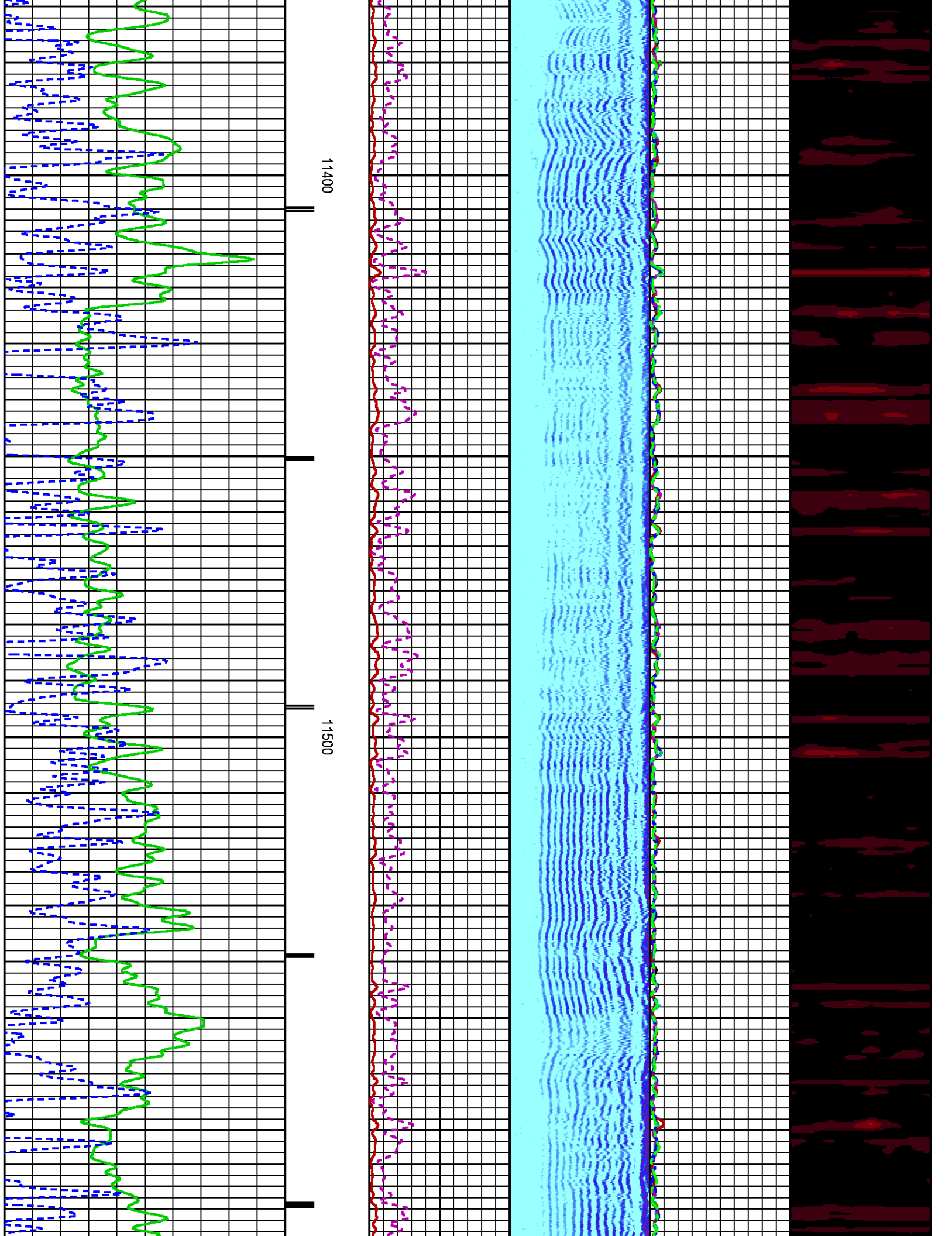


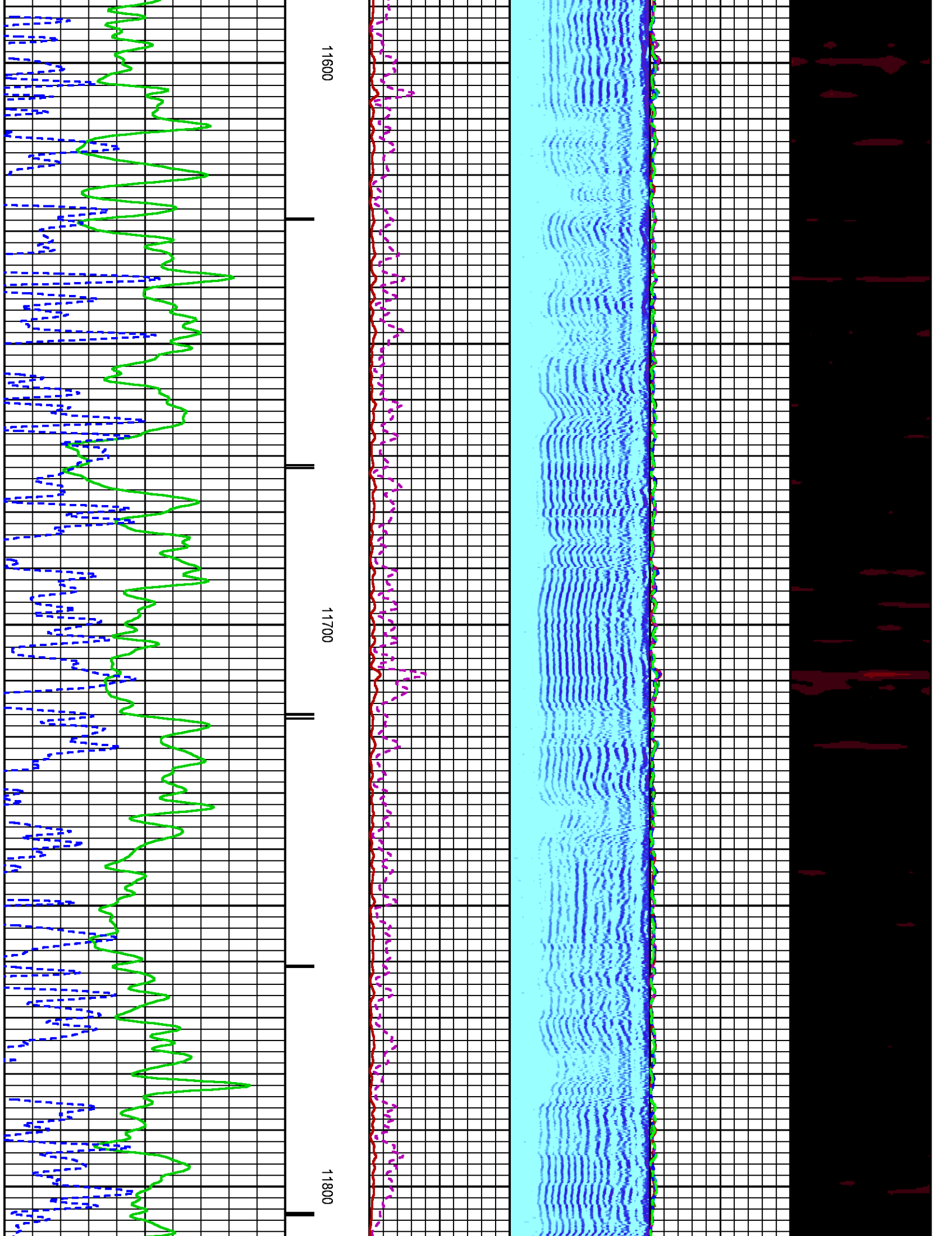


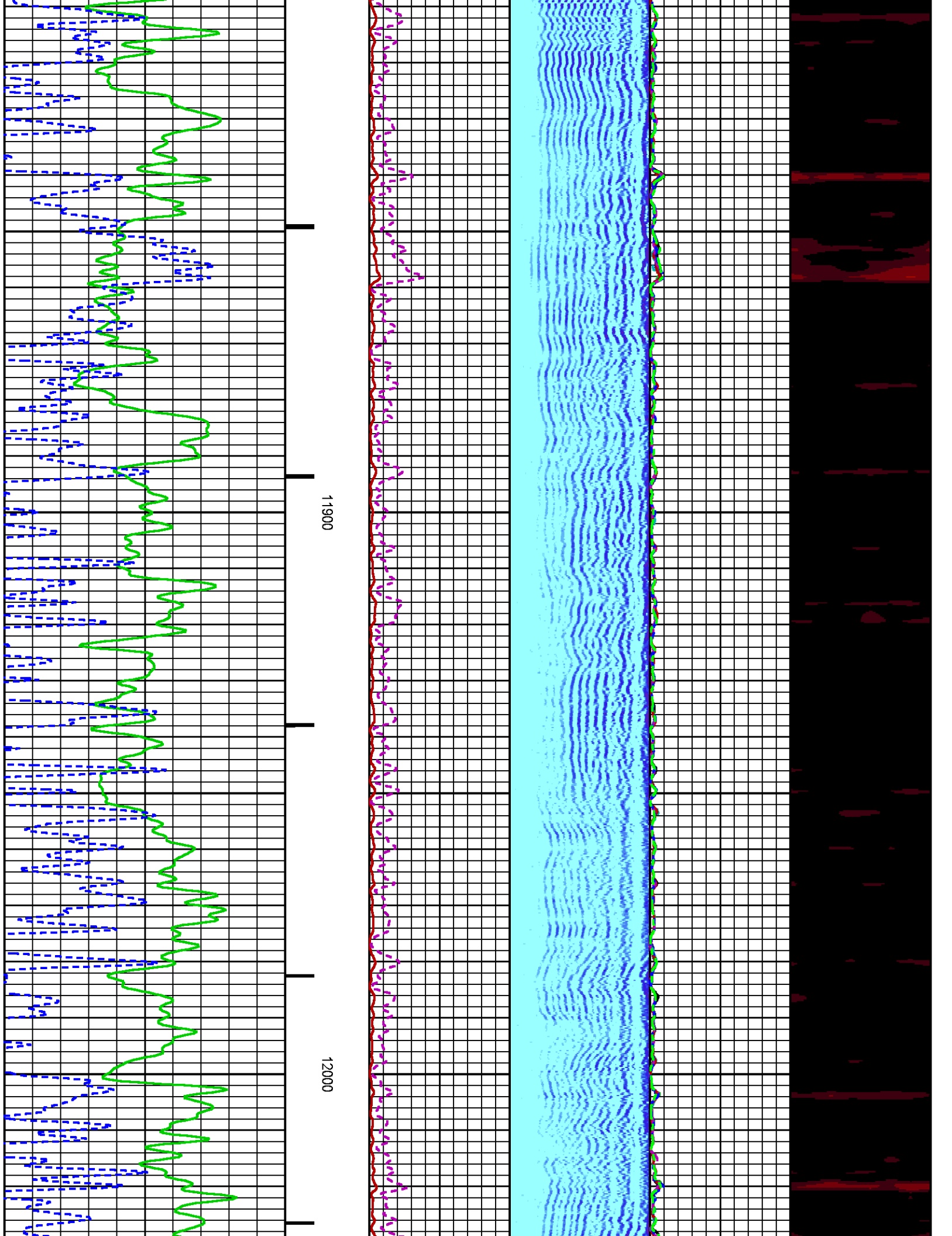


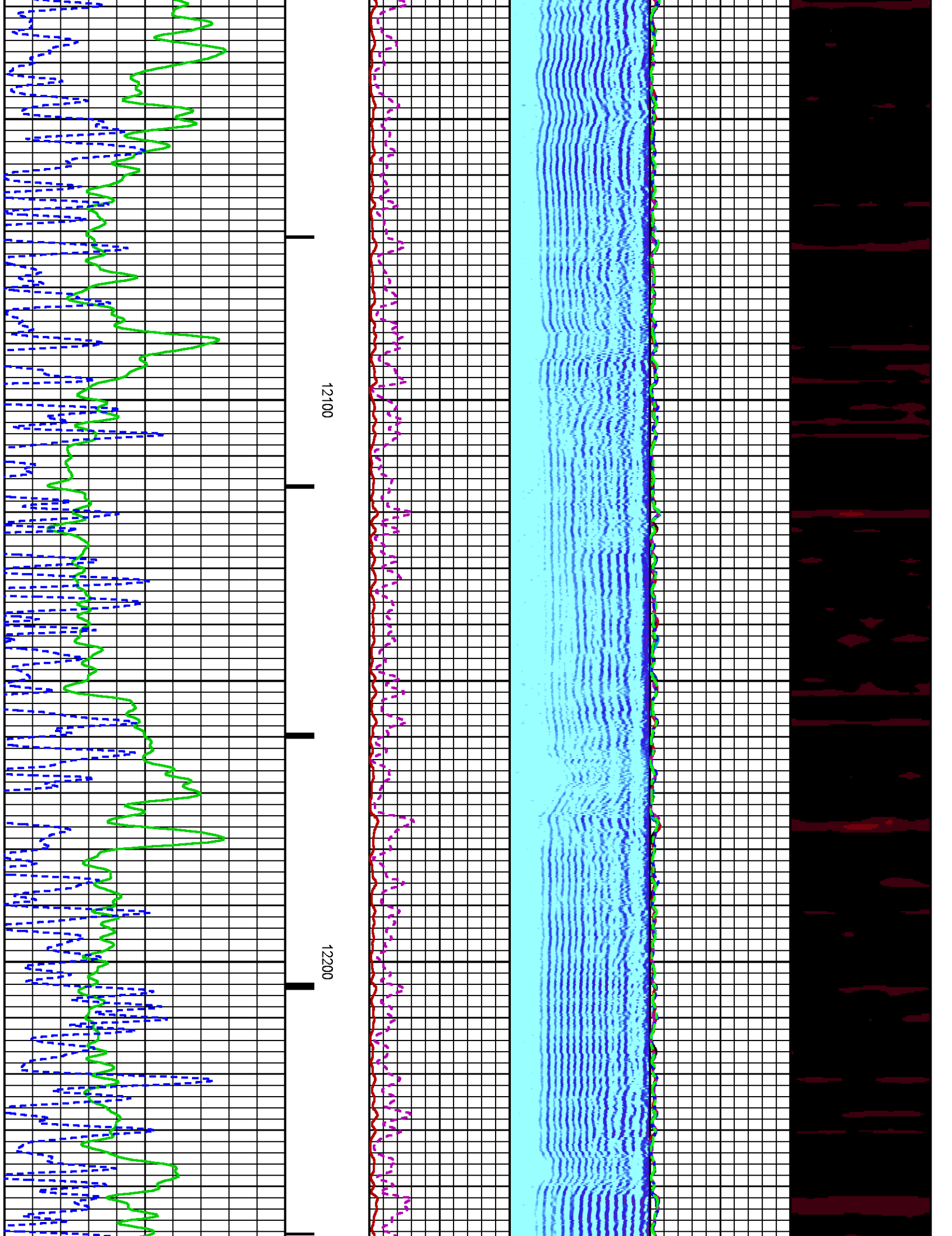




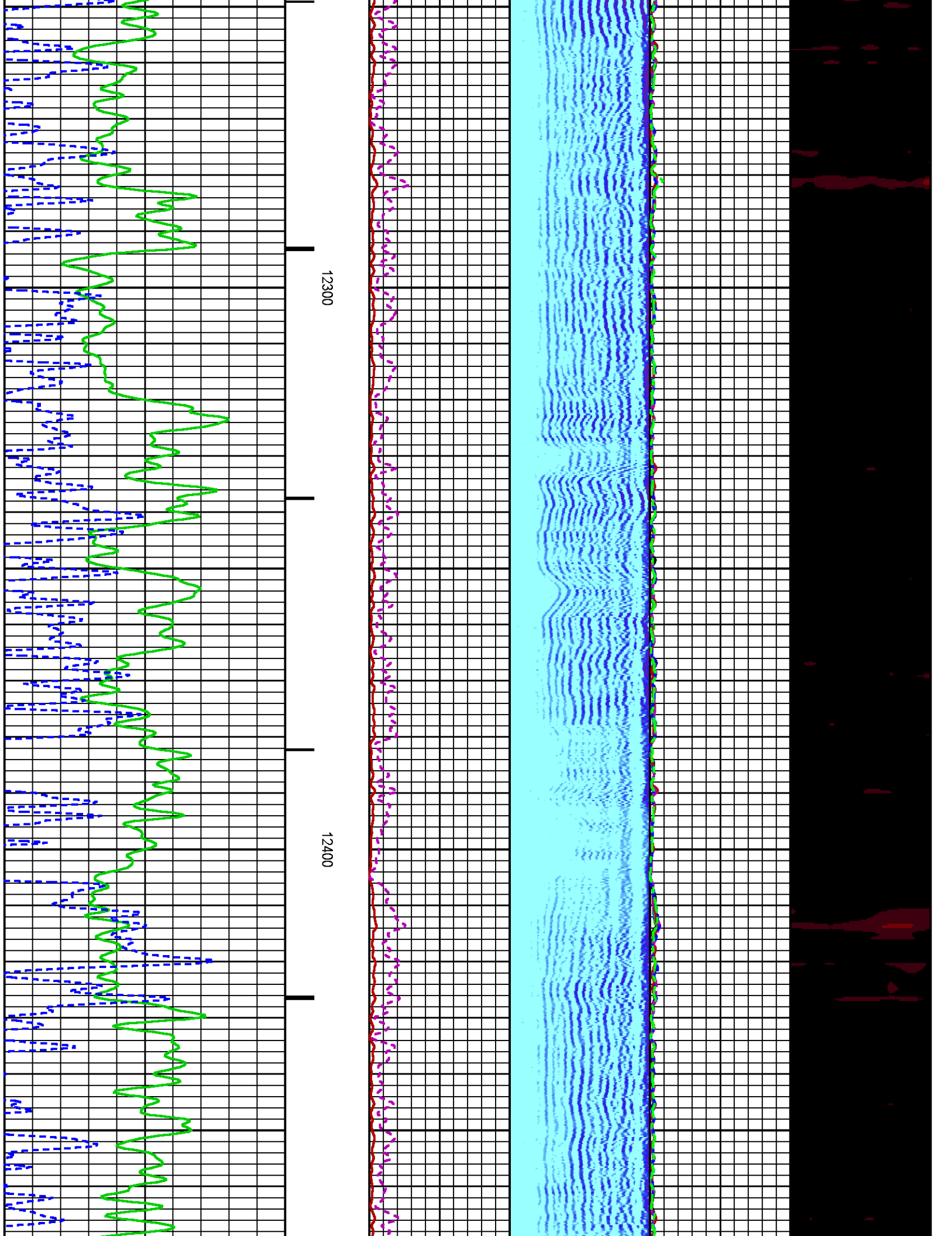














	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	-0.12	-0.48	-0.32	-0.40	-0.40	-0.16	-0.73	-0.49	-0.15	1.75	-0.01
AMP FLUID (mV)	73	73	72	72	72	73	73	73	73	97	72
TT (us)	219	219	219	218	218	218	218	218	220	327	220
M FACTOR	1.37	1.37	1.38	1.38	1.38	1.37	1.35	1.36	1.37	1.57	1.39

RAL BEFORE LOG VERIFICATION SUMMARY

NOT IN DATABASE

GR PRIMARY CALIBRATION SUMMARY

TOOL #:		2459XA 10218503		DATE/TIME PERFORMED:		Sat Feb 07 08:04:38 2015									
UNIT #:		3880TA HL6670		CALB JIG #:		4702NK DA-041									
BACKGROUND (cls)		CALBRTR ON (cls)		CR DIFF (cls/s)		MULT		BACKGROUND (gAPI)		CALBRTR ON (gAPI)		CALBRTR (gAPI)			
GR		97.87		365.24		267.4		0.692		67.72		252.72		185	

GR PRIMARY VERIFICATION SUMMARY

TOOL #:	2459XA 10218503		DATE/TIME PERFORMED:	Sat Feb 07 08:06:38 2015		
UNIT #:	3880TA HL6670		VERI JIG #:	4702NK DA-041		
	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts)	(cts)		(gAPI)	(gAPI)	(gAPI)
GR	97.69	370.71	0.692	67.59	256.50	188.91
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: C:\dat1a\WELLDATA\WPX\FEDERAL RGU 44-23-198\CBL-tdg

CABLEHEAD

Diameter : 2.75"  
 Length : 2.25'  
 Weight : 10 lbs  
 Series : CABL234  
 Mnemonic : CBLH



23.02'

**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

NEAR RCVR — 13.81'

FAR RCVR — 12.85'

CCL — 8.65'

GR — 6.79'

NEU — 1.40'

0.00'

**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

**BULL PLUG 2 3/4**

TOTAL LENGTH: 23.02'  
 TOTAL WEIGHT: 258 lbs  
 MAX DIAMETER: 0'4.00"



**COMPANY**  
**WELL**  
**FIELD**  
**COUNTY**

**WPX ENERGY****FEDERAL RGU 44-23-198****SULPHUR CREEK****RIO BLANCO****STATE COLORADO****LOCATION:**

SHL: 1048' FSL &amp; 623' FEL

BHL: 1209' FSL &amp; 632' FEL

SEC **23** TWP **1S** RGE **98W****ELEVATIONS:**

KB 6592 FT

DF

GL 6567 FT

DATE **25-Mar-2015****FILE NO:****CH095499****API NO:****05103121360000****23 1S 98W****RGU 43-23-198****AZTEC 1000**



