



FILE NO: US093869 COMPANY WPX ENERGY ROCKY MTN LLC  
WELL FEDERAL PA 31-27  
FIELD PARACHUTE  
COUNTY GARFIELD STATE CO

Ver. 3.87 LOCATION: SHL: 2852' FNL: 657' FEL  
PAD: DOE 2-W-27 BHL: 912' FNL: 1926' FEL  
RIG: NABORS 576  
SEC 27 TWP 6S RGE 9SW OTHER SERVICES  
RPM

PERMANENT DATUM GL ELEVATION 5856 FT ELEVATIONS:  
LOG MEASURED FROM KB 26 FT ABOVE P.D. KB 5882 FT  
DRILL. MEAS. FROM KB GL 5856 FT

DATE	10-Jan-2015
RUN	1
TRIP	1
SERVICE ORDER	US093869
DEPTH DRILLER	8810 FT
DEPTH LOGGER	8735 FT
BOTTOM LOGGED INTERVAL	8725 FT
TOP LOGGED INTERVAL	26 FT
TIME STARTED	17:00
TIME FINISHED	20:30
OPERATOR RIG TIME	3.5 HR
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	80 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	63 F/MN
MAX. RECORDED TEMP.	245 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	D SMITH
WITNESSED BY	J DUCY

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

#### BOREHOLE RECORD

BIT SIZE	FROM	TO
13.5 IN	0 FT	2911 FT
8.75 IN	2911 FT	8849 FT

#### CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	36 LB/F		0 FT	2911 FT
4.5 IN	11.6 LB/F		0 FT	8849 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 ground level elevation at the client's request.

The amount of linear shift is -7.0 FT

Logged with zero PSI at wellhead.

BHT = 245

SJ = 5443' TO 5464'

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES

## EQUIPMENT DATA

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

## PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 4

Plotted: Sun Jan 11 11:18:45 2015

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH093869/n012eR01.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 40.500 ft BOTTOM DEPTH: 8750.000 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*)	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	"	"

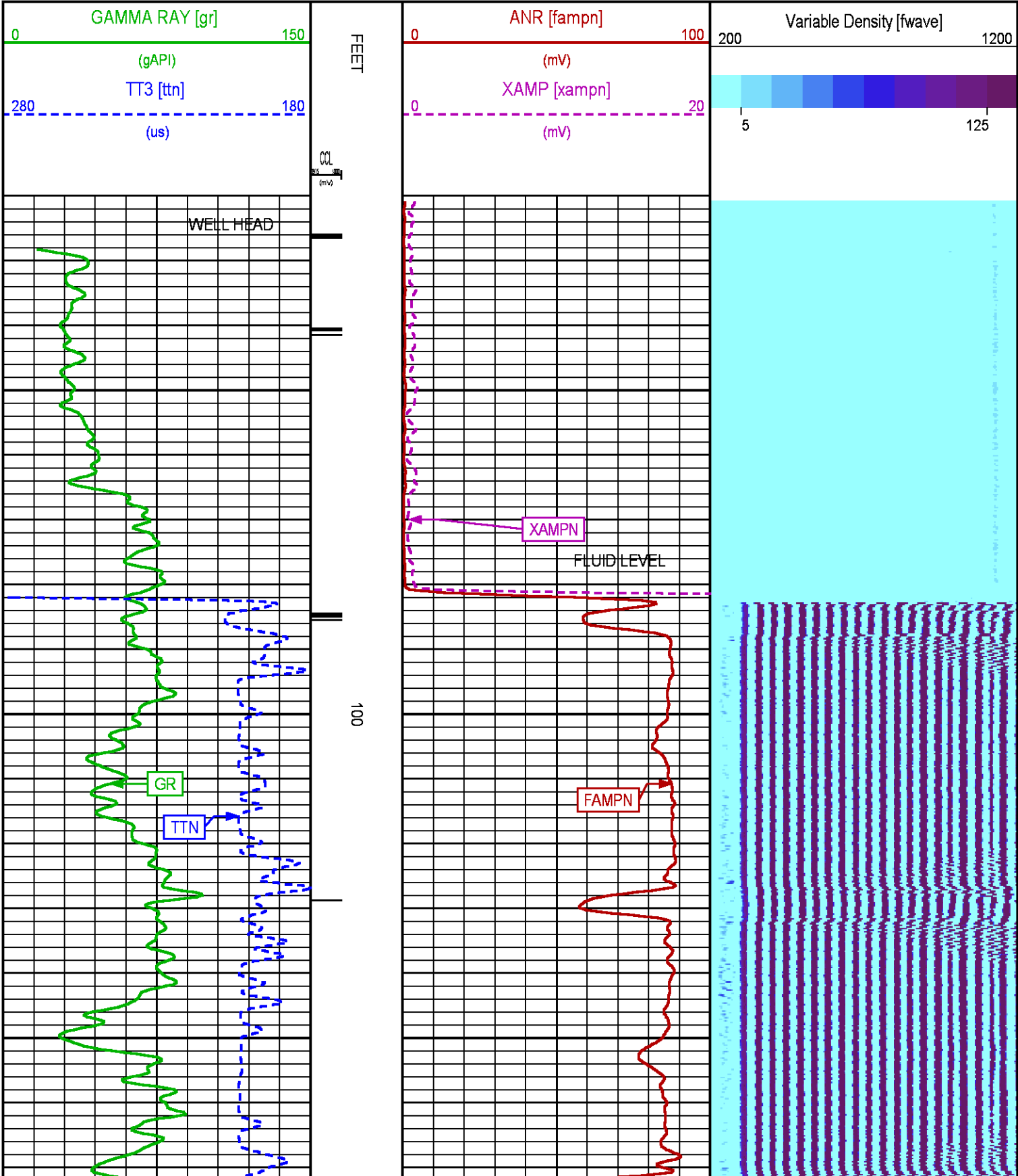
## CURVE DESCRIPTION REPORT

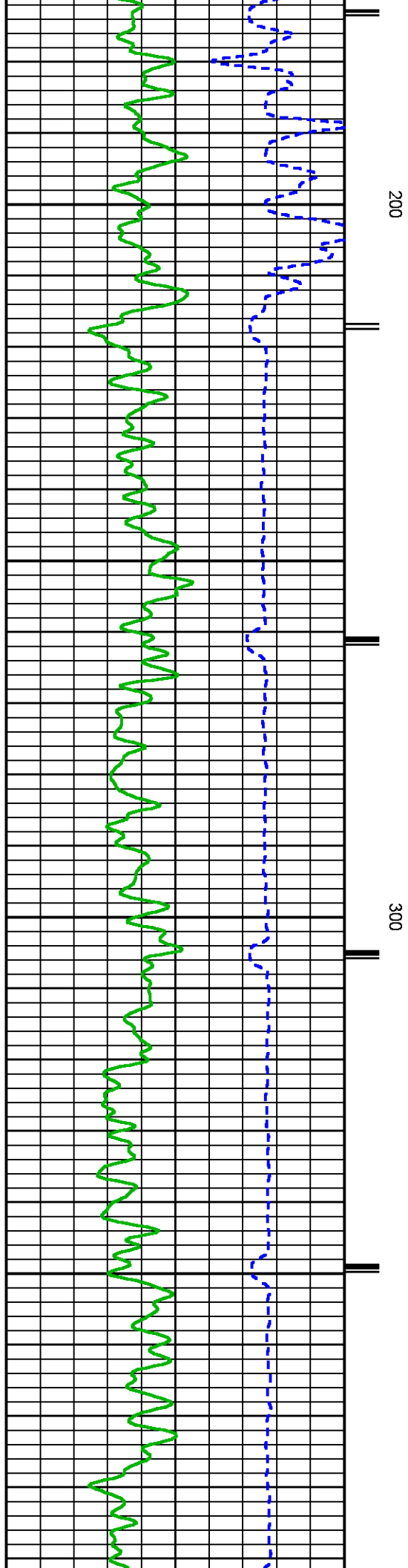
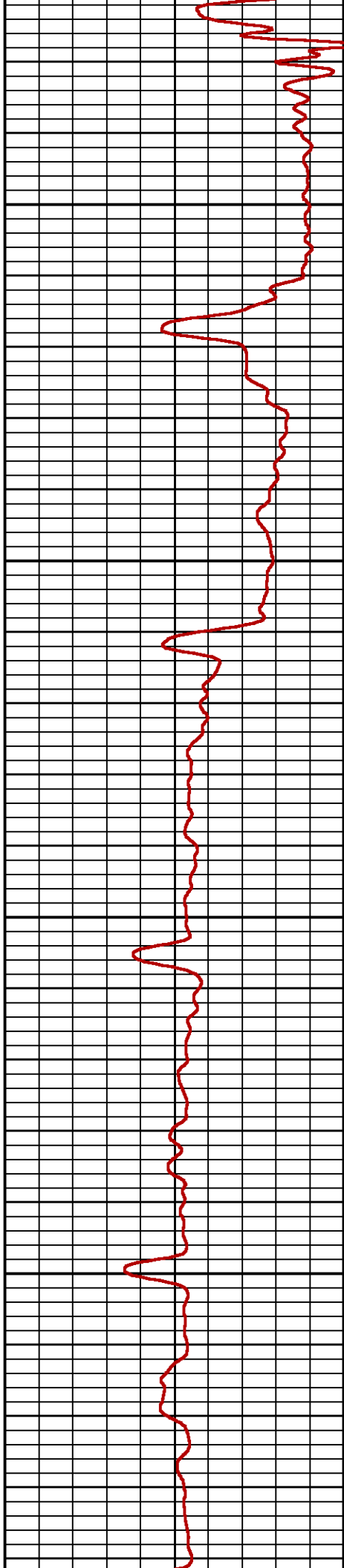
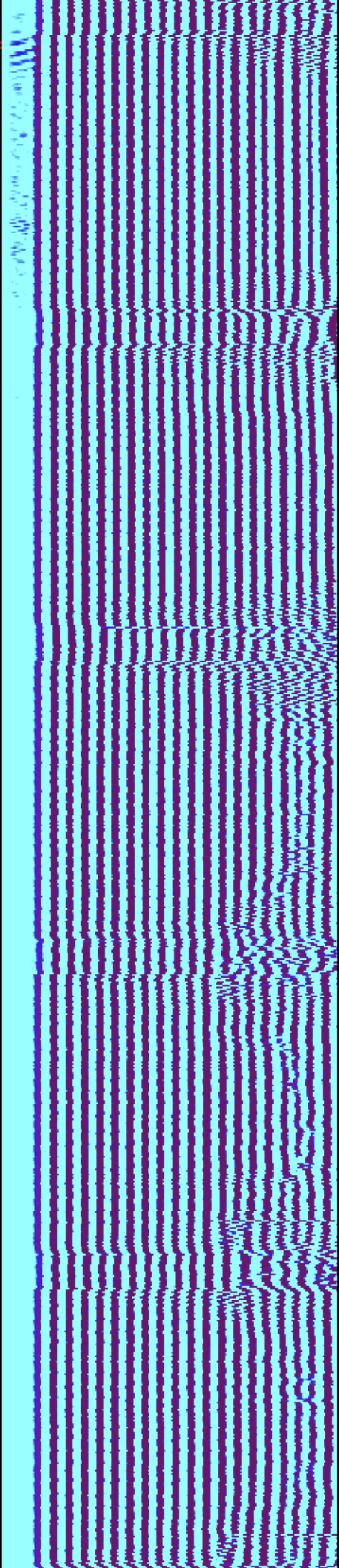
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 10 20:10:00 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 10 20:10:00 2015	FAR WAVE FORM
F1:GR	Jan 10 20:10:00 2015	GAMMA RAY
F1:TTN	Jan 10 20:10:00 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

## CURVE MEASURE POINT OFFSET

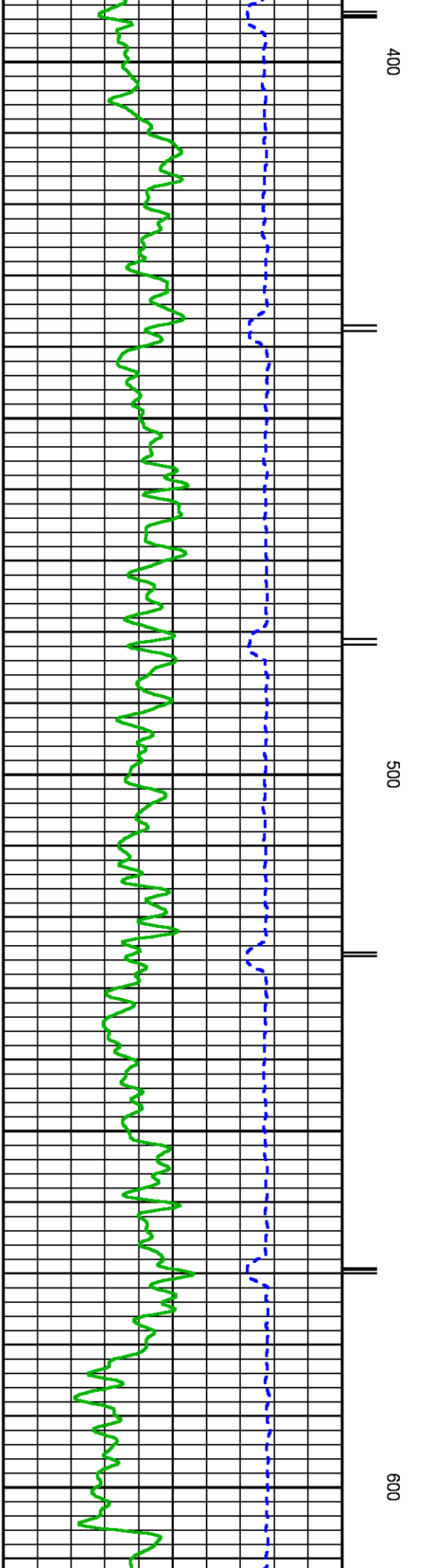
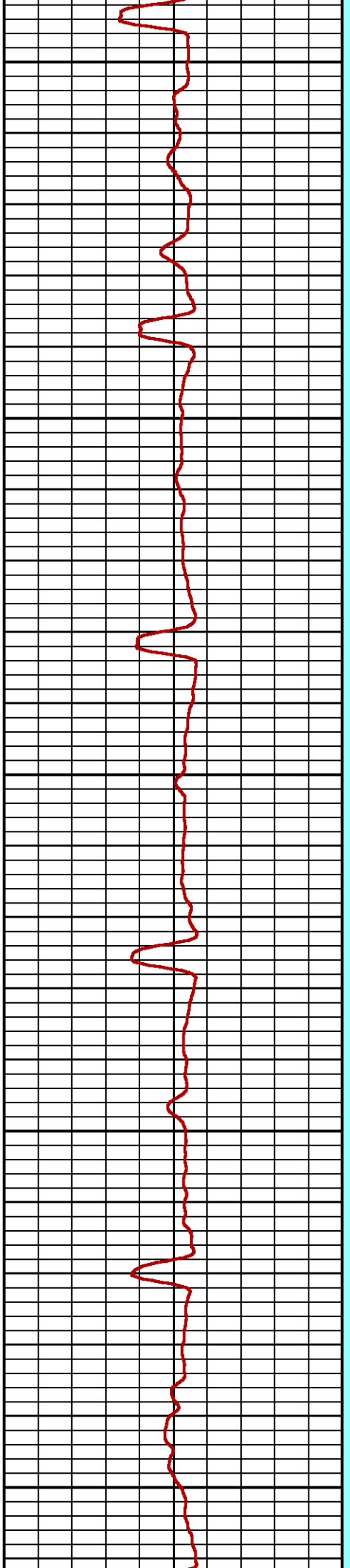
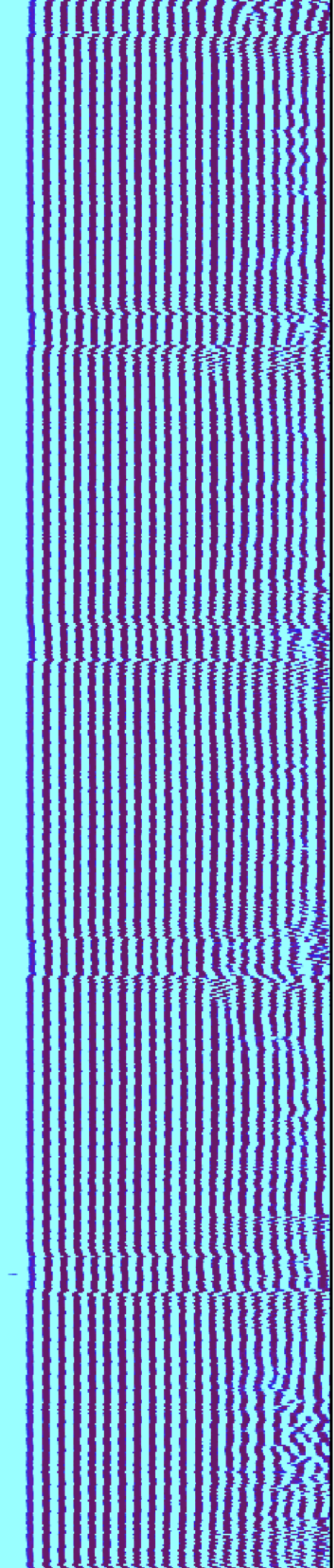
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		

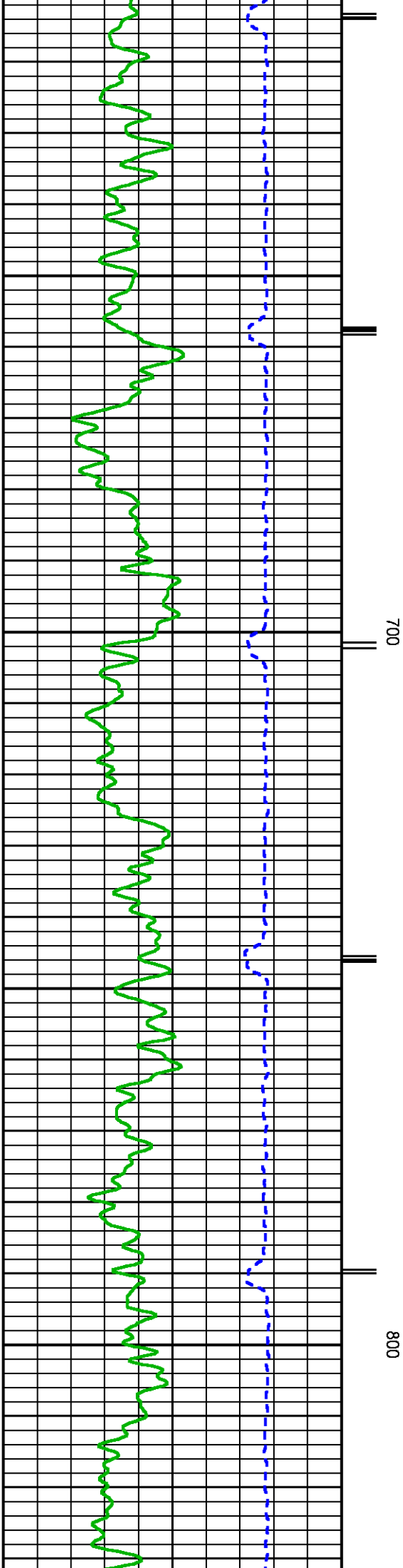
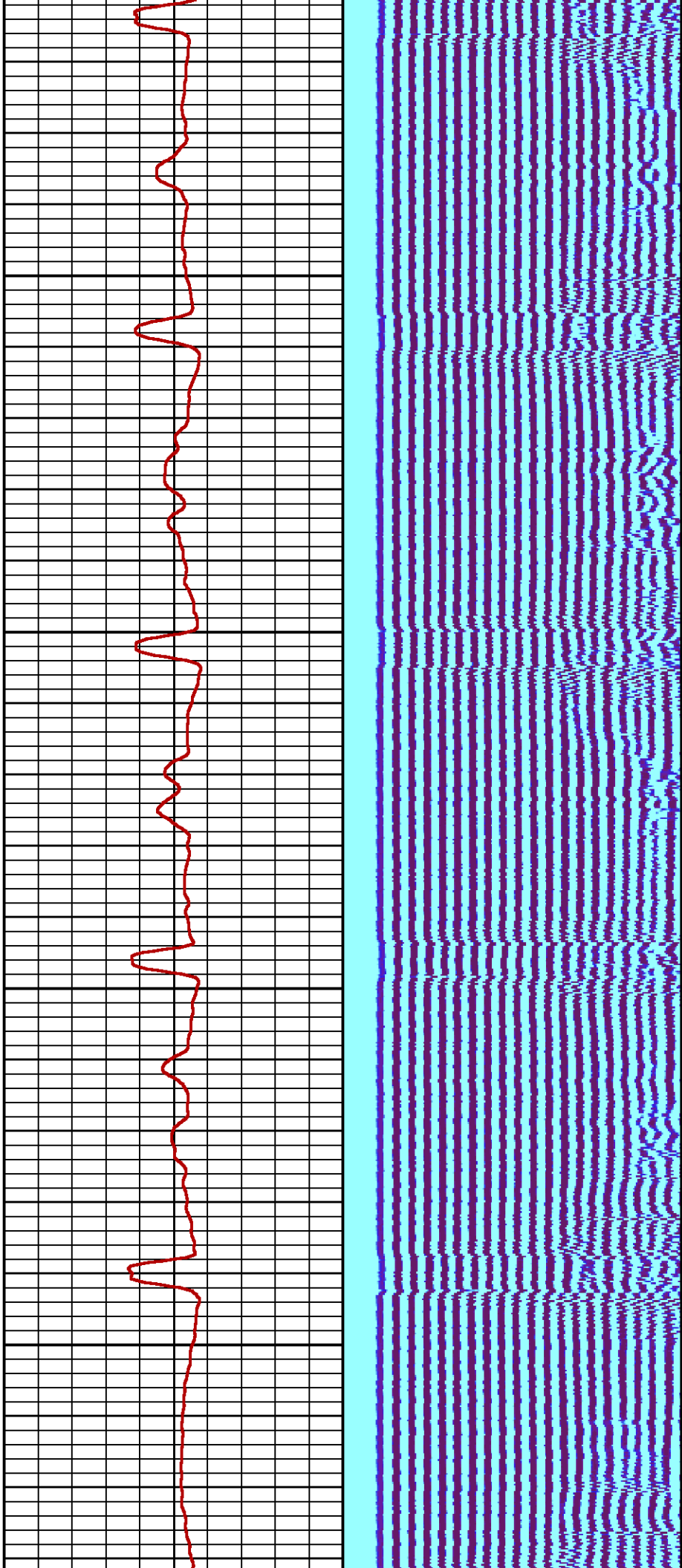
GR	FAMPN	13.75	GR	13.75	FAMPN	13.75
Presentation : HL6670:WPX_CBL_MAIN_PRESENTATION.fvpdf [5"/100' Scale] Plot Interval : 20.75 - 8741.5 Feet  Data File 1 : F1 : HL6670:/dat1a/CH093869/RAL_MAIN.xtf Created On : Jan 10 20:10:00 2015 Company : WPX ENERGY ROCKY MTN LLC Well : FEDERAL PA 31-27 Field : PARAHUTE File Interval : 19.75 - 8743 Feet OCT : n012e						

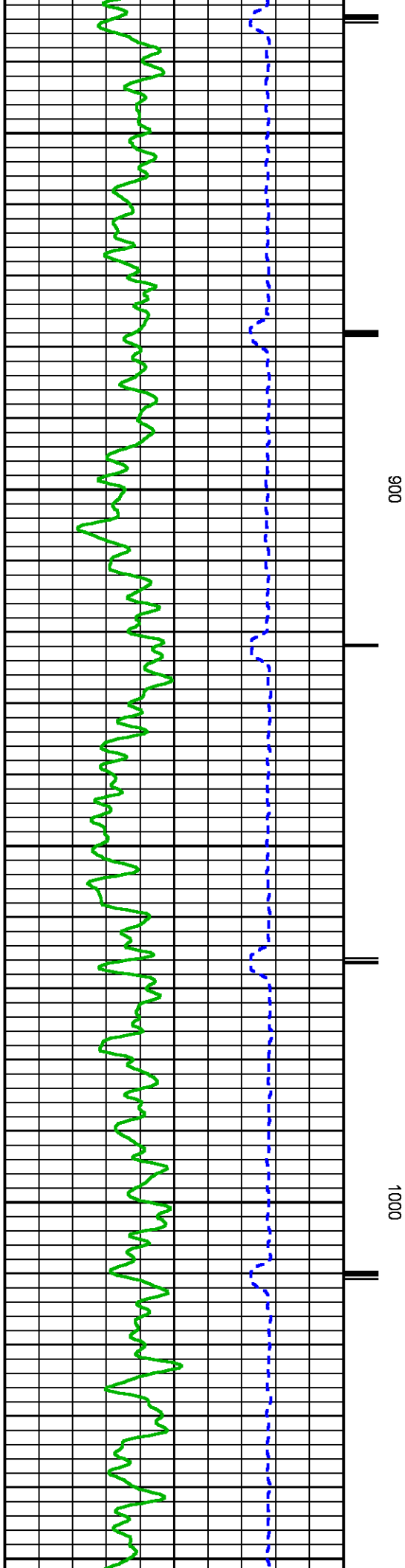
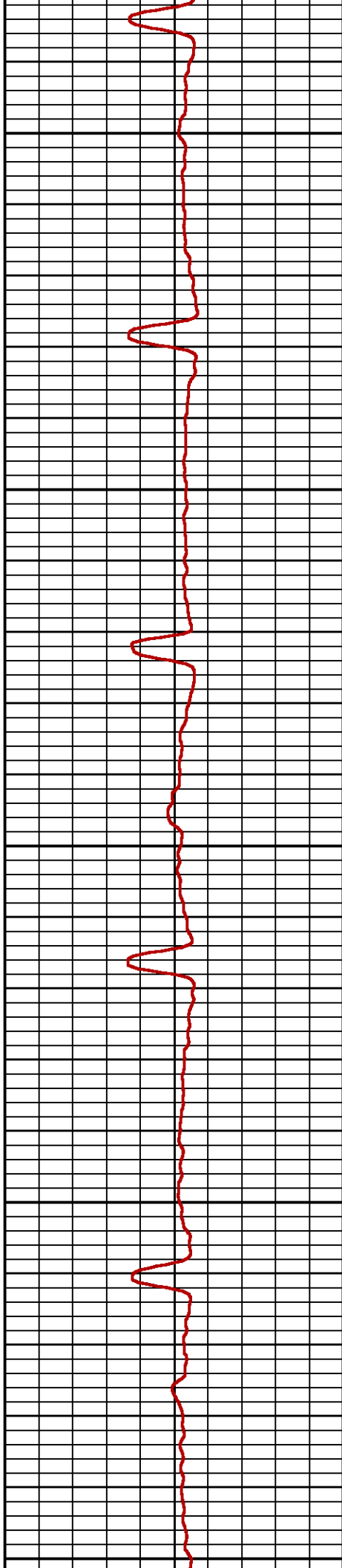
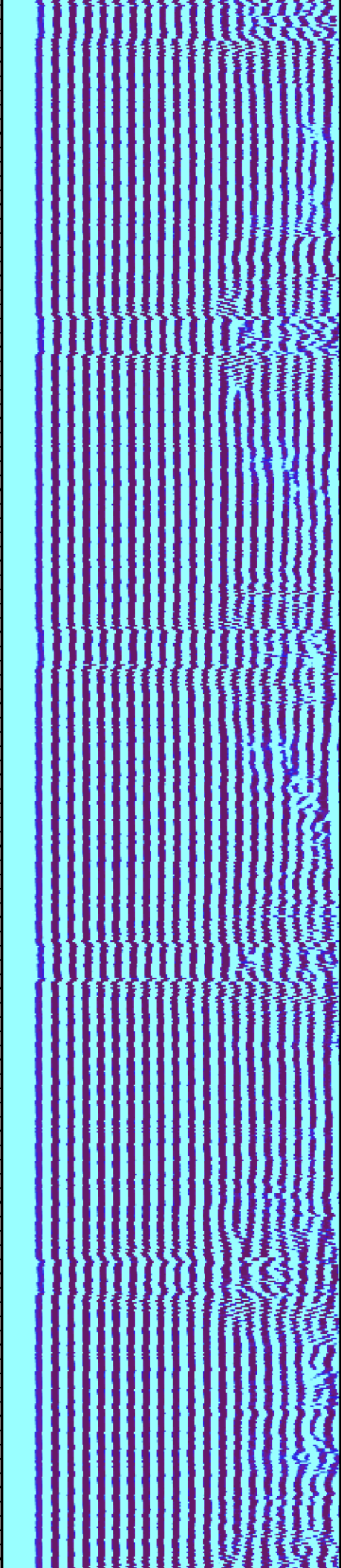


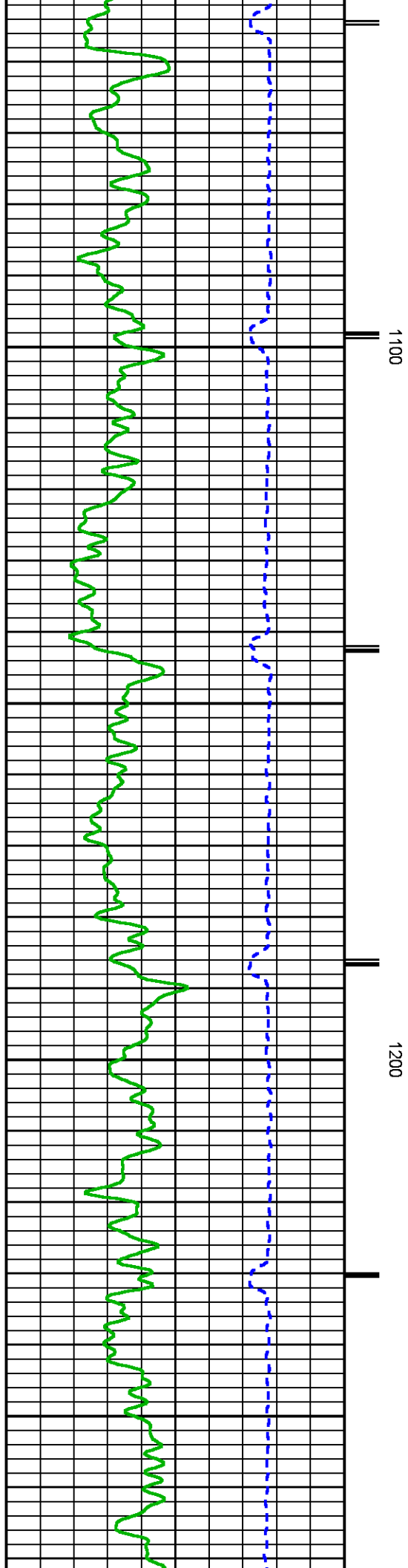
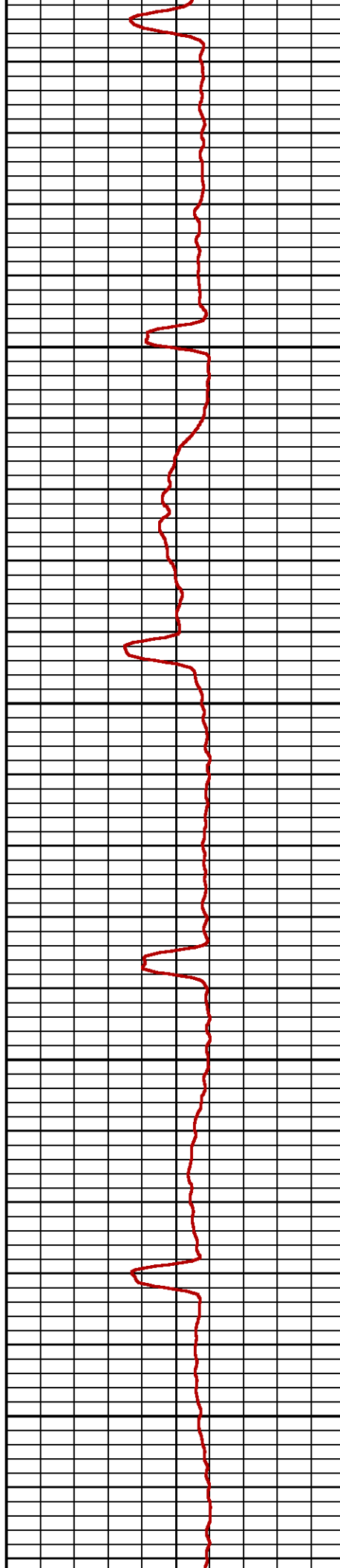
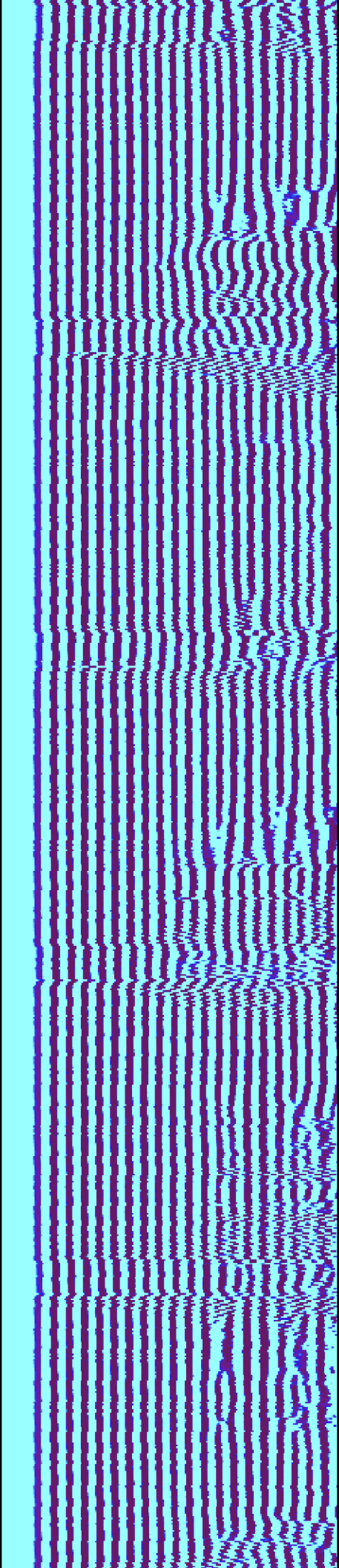




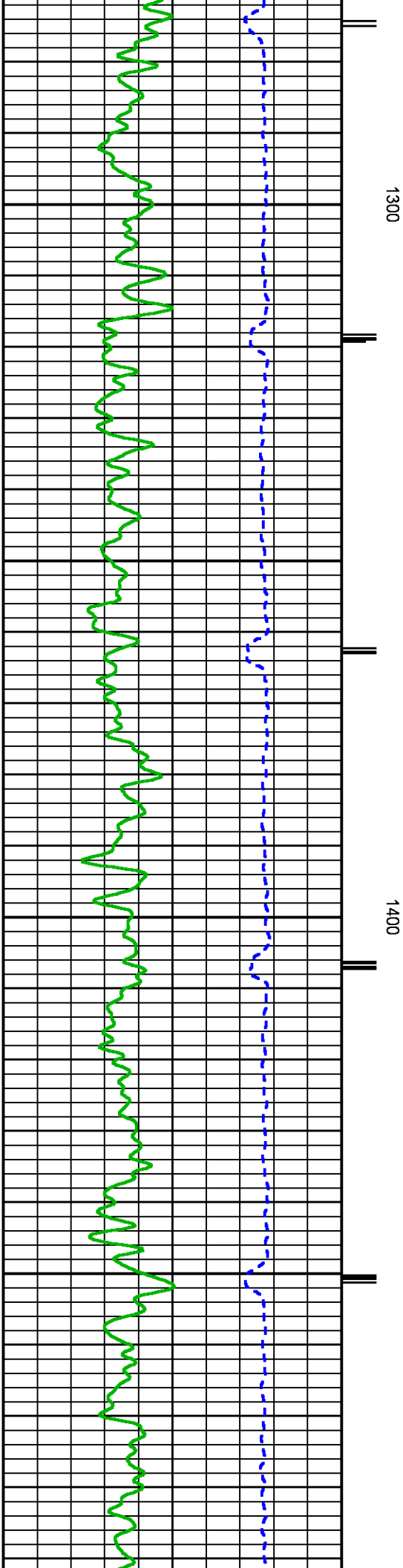
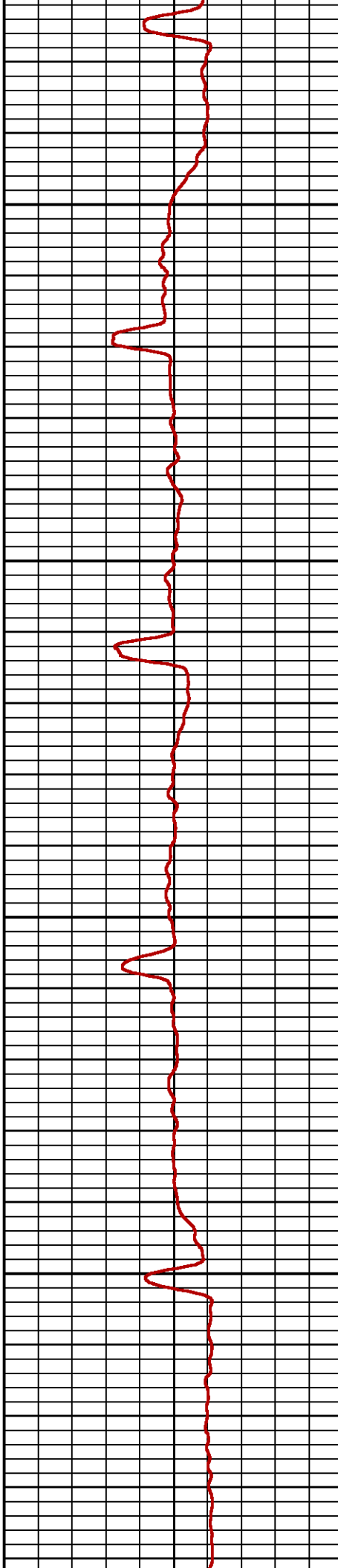
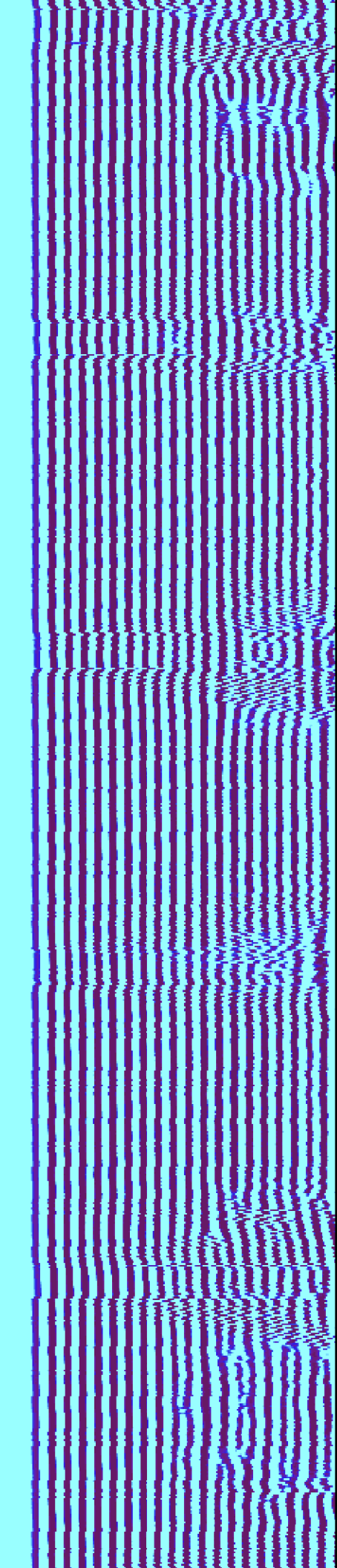


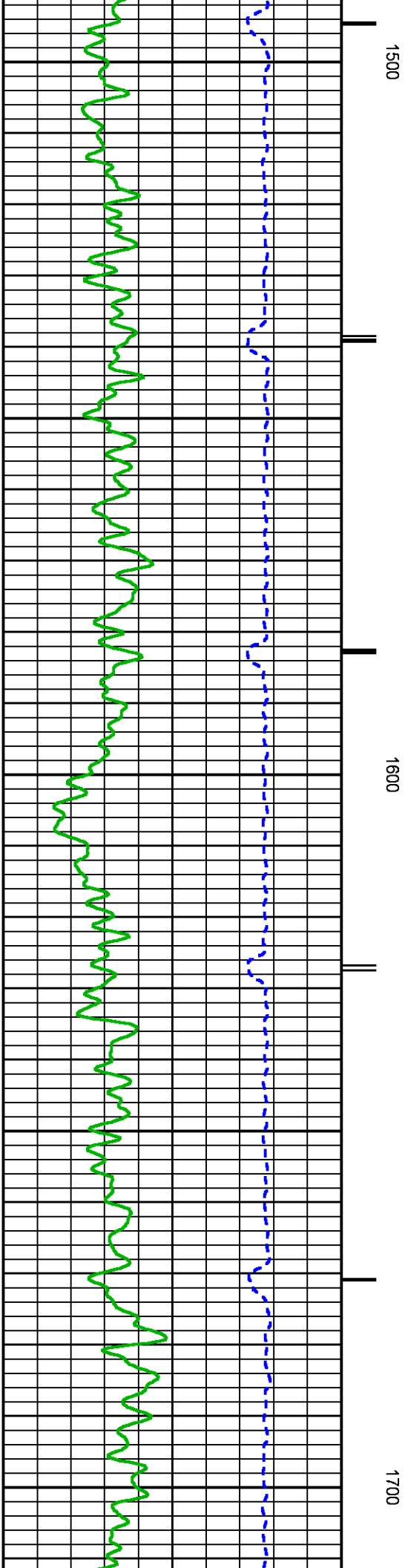
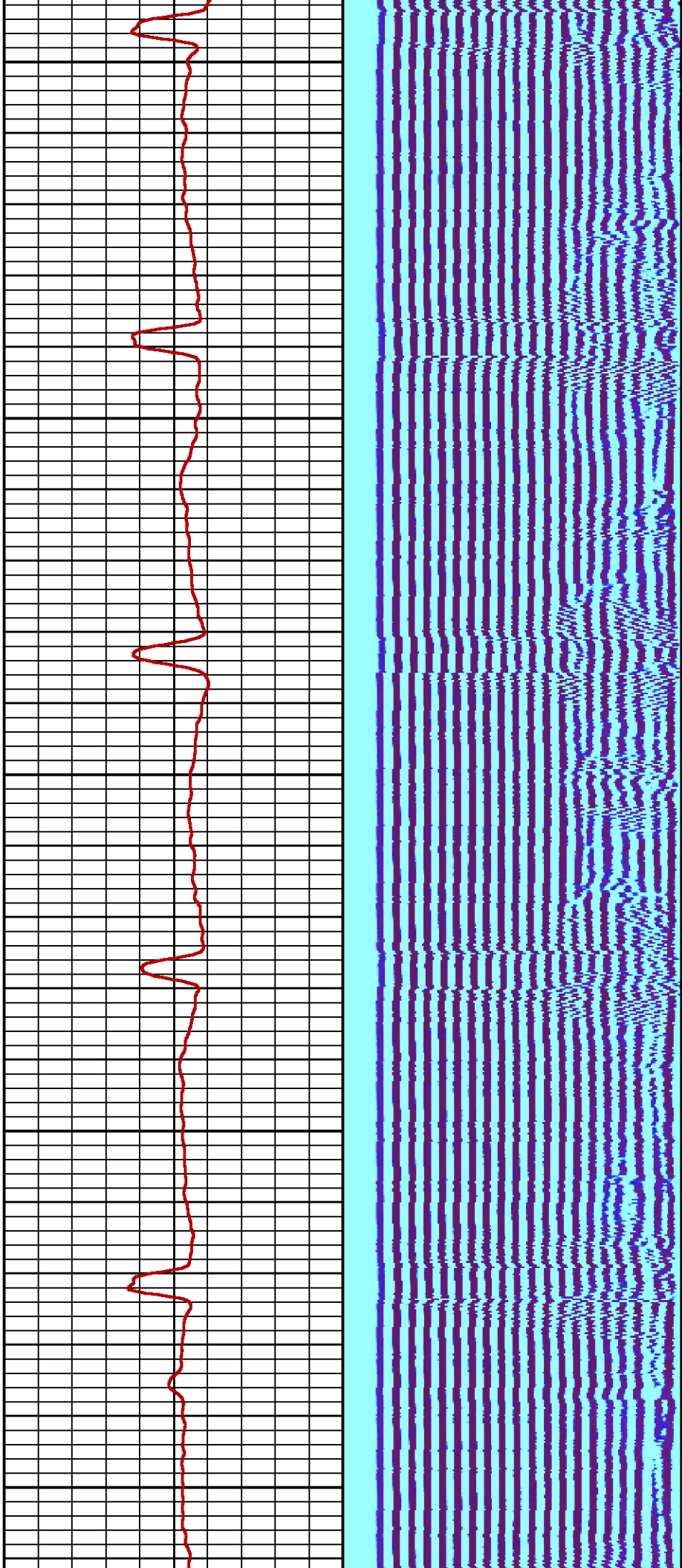


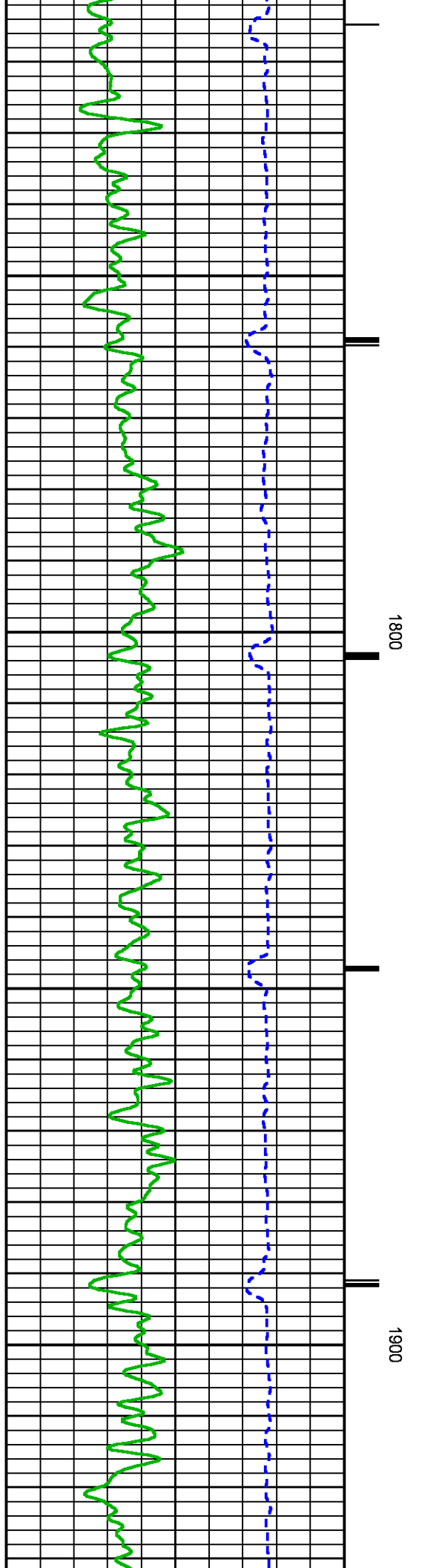
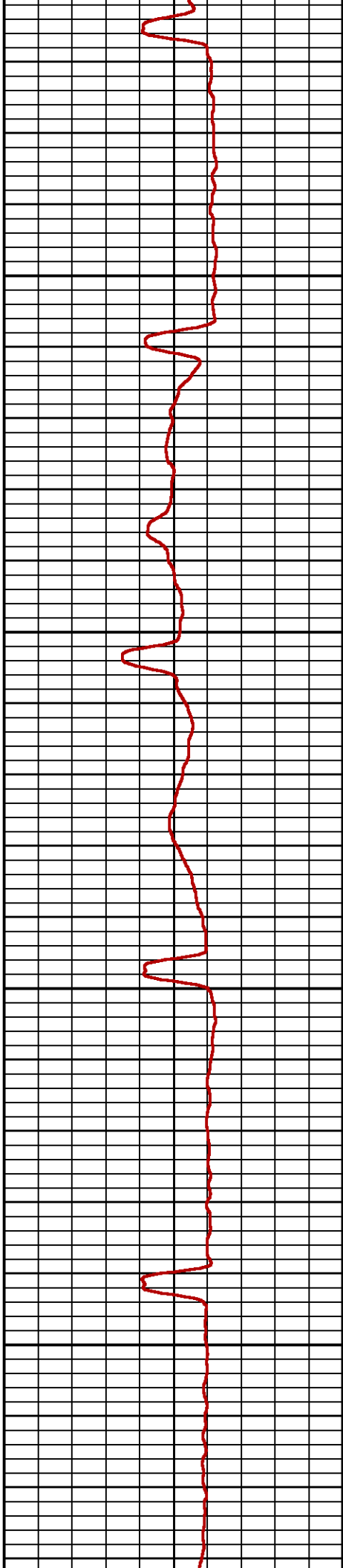
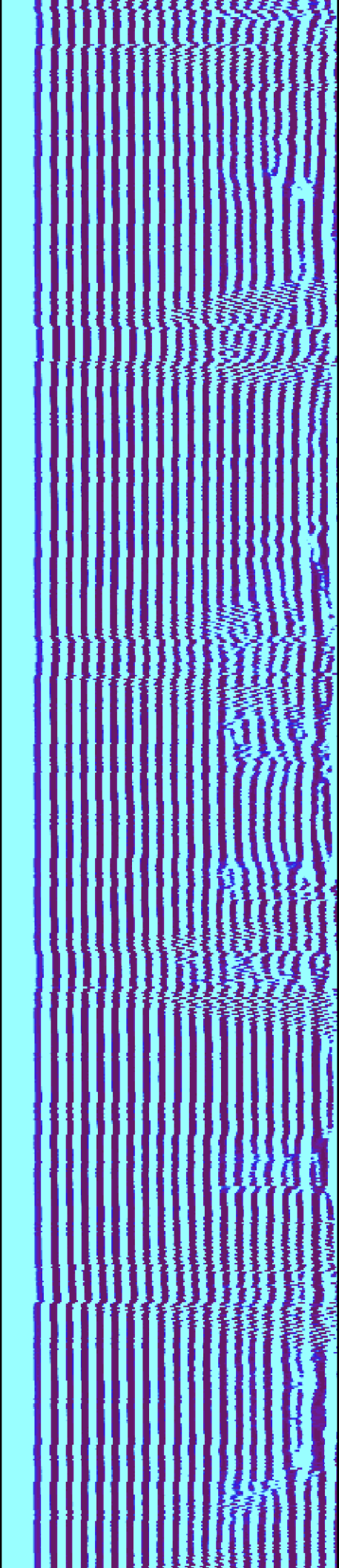




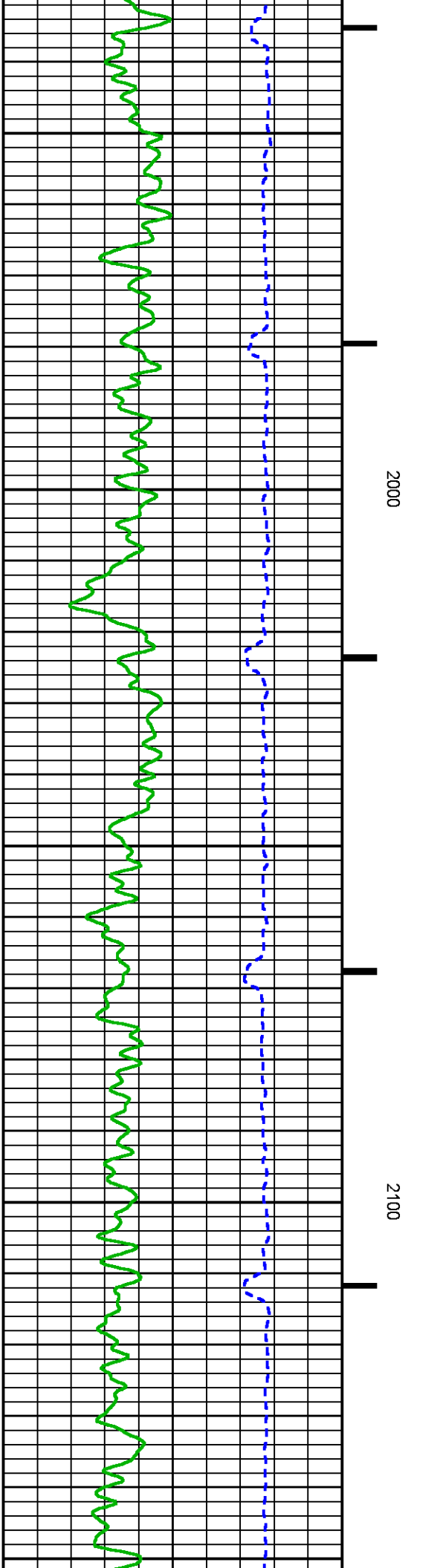
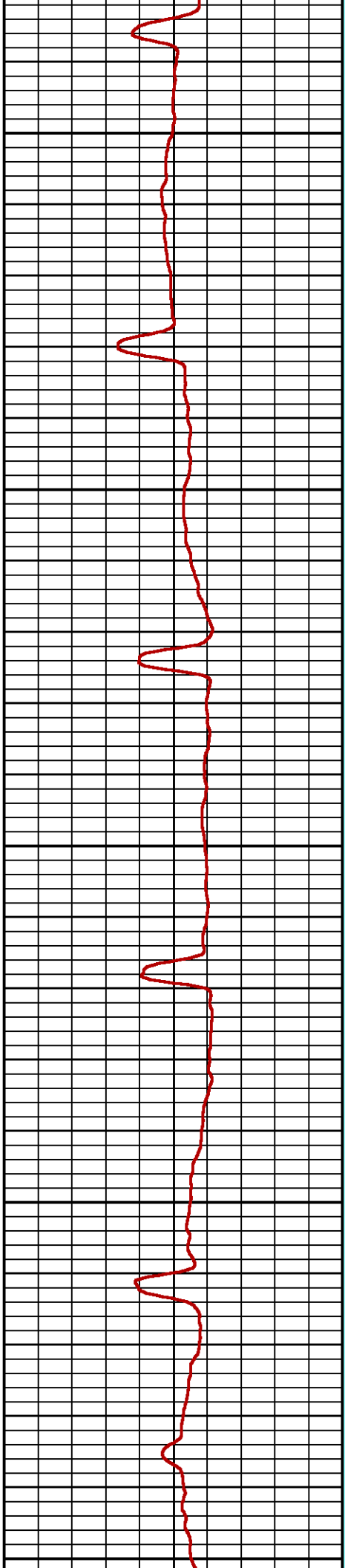
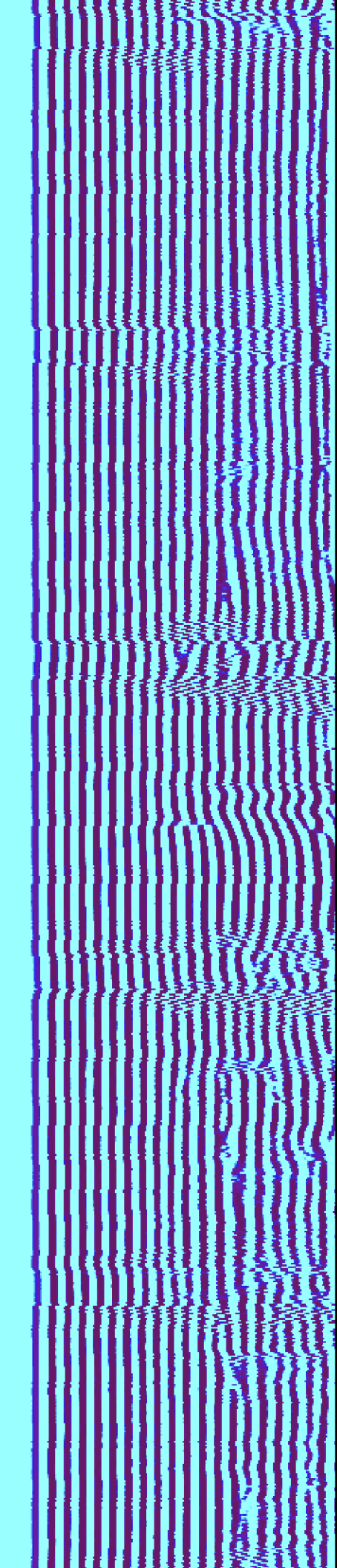


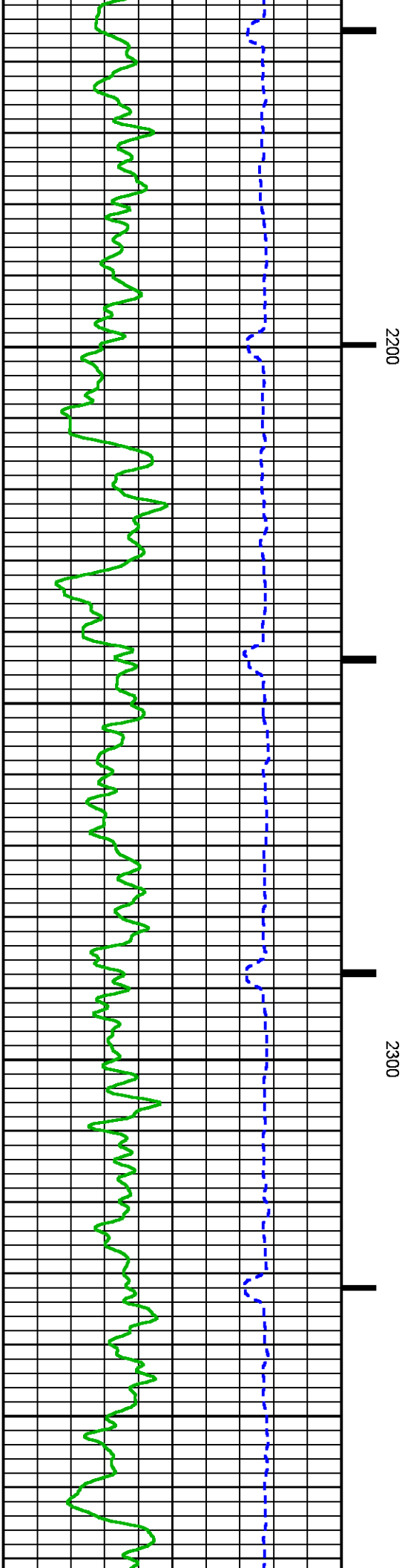
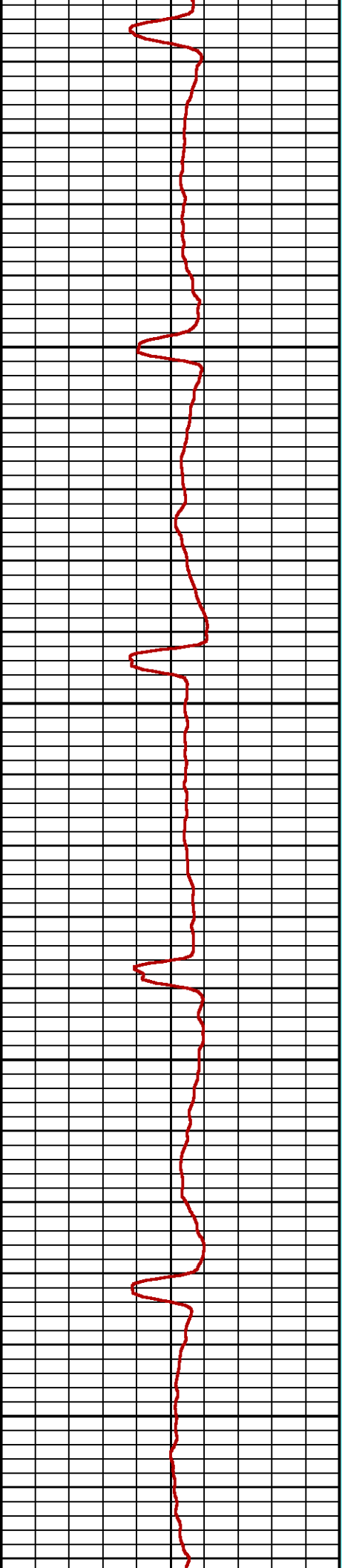
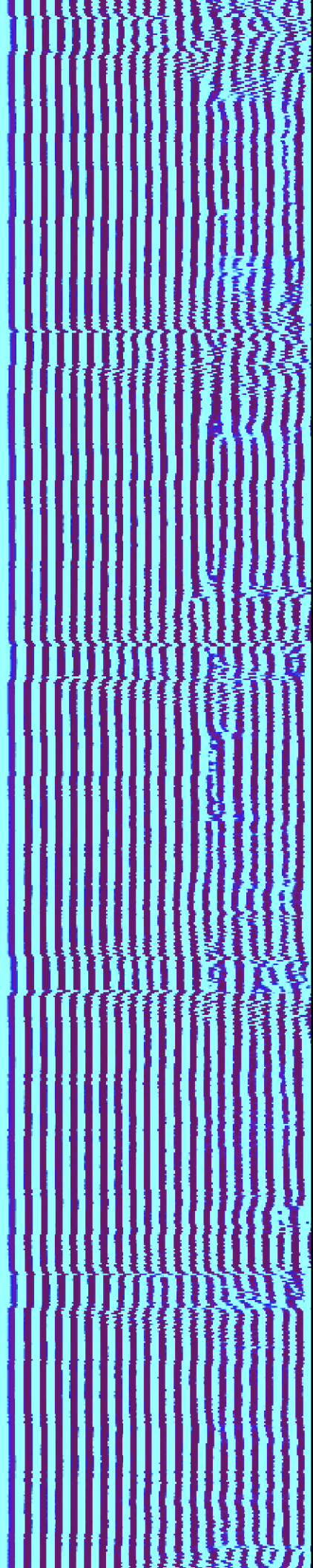


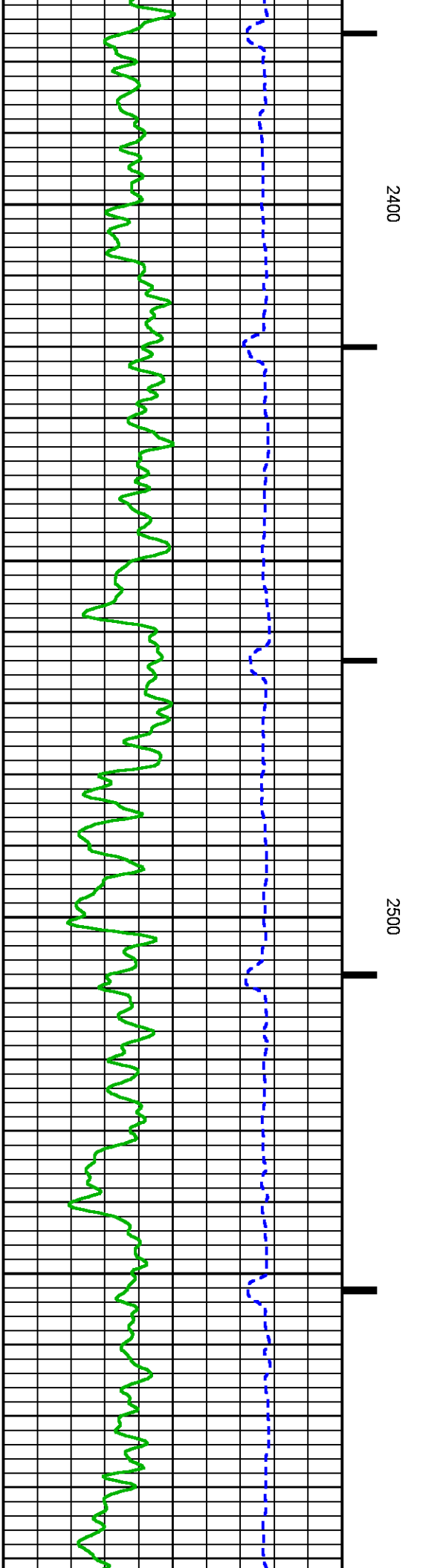
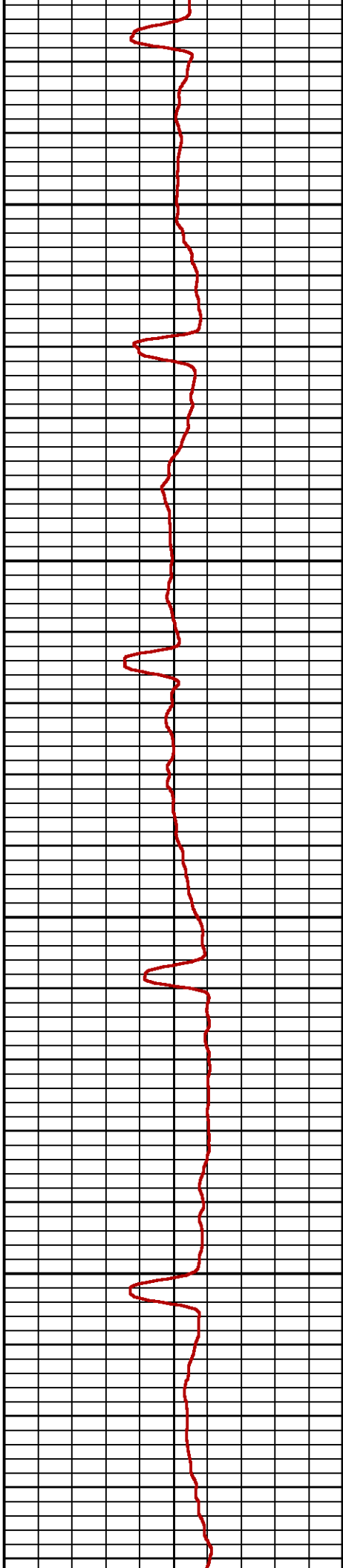
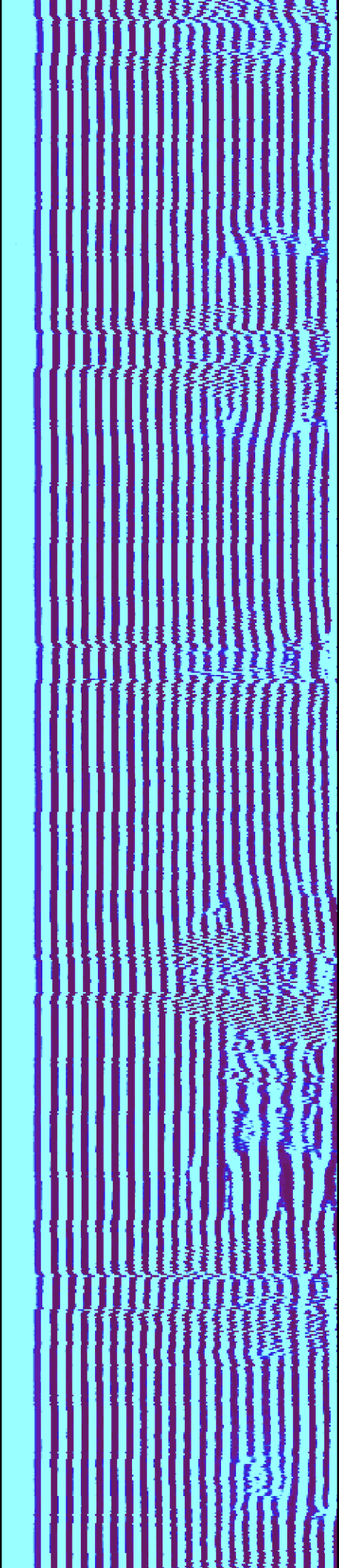


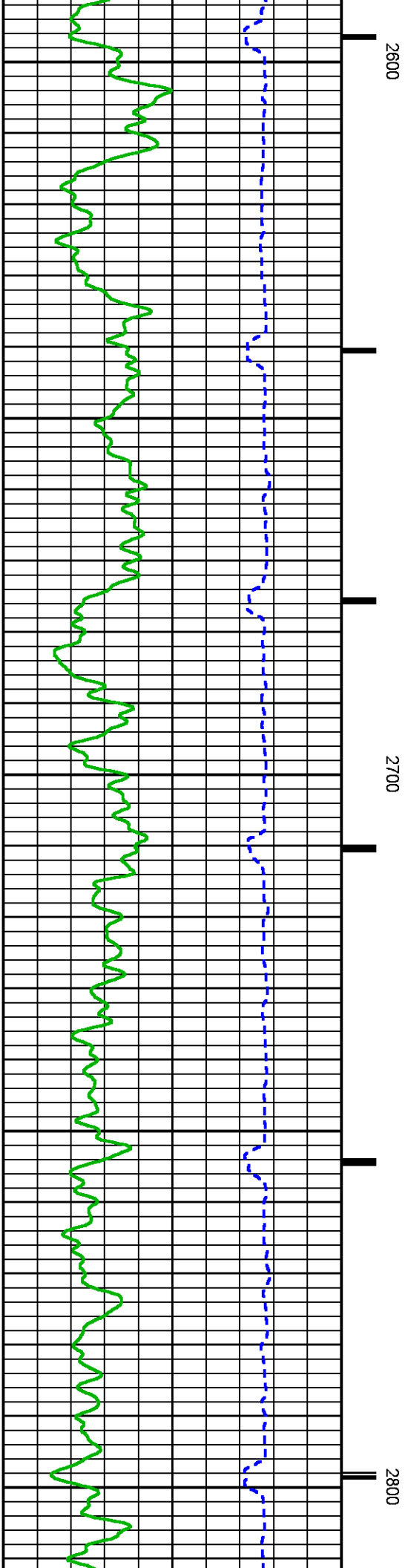
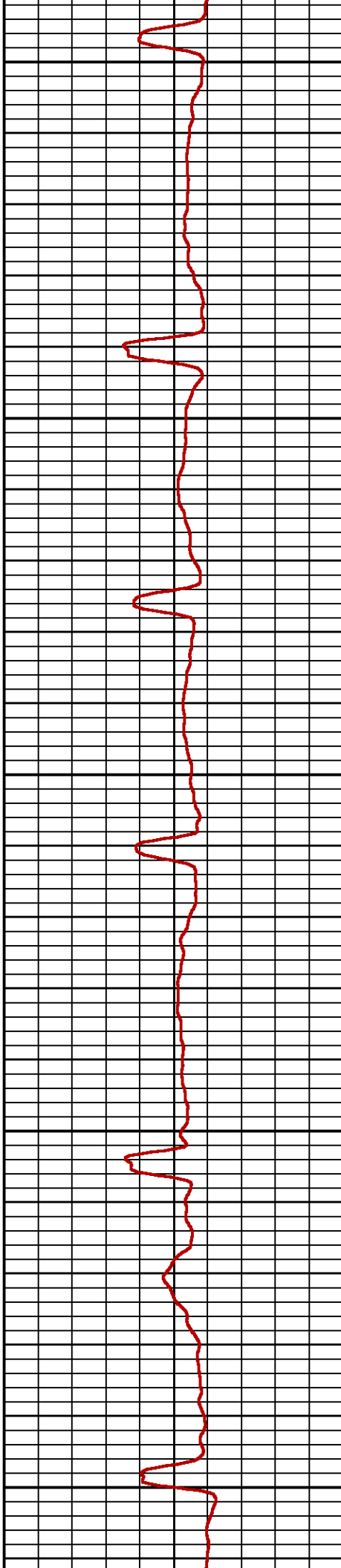
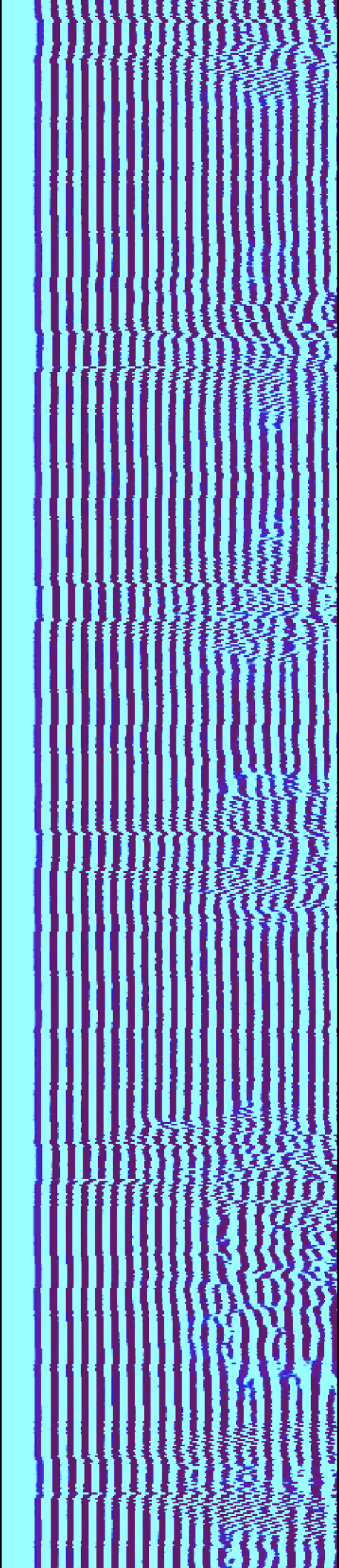




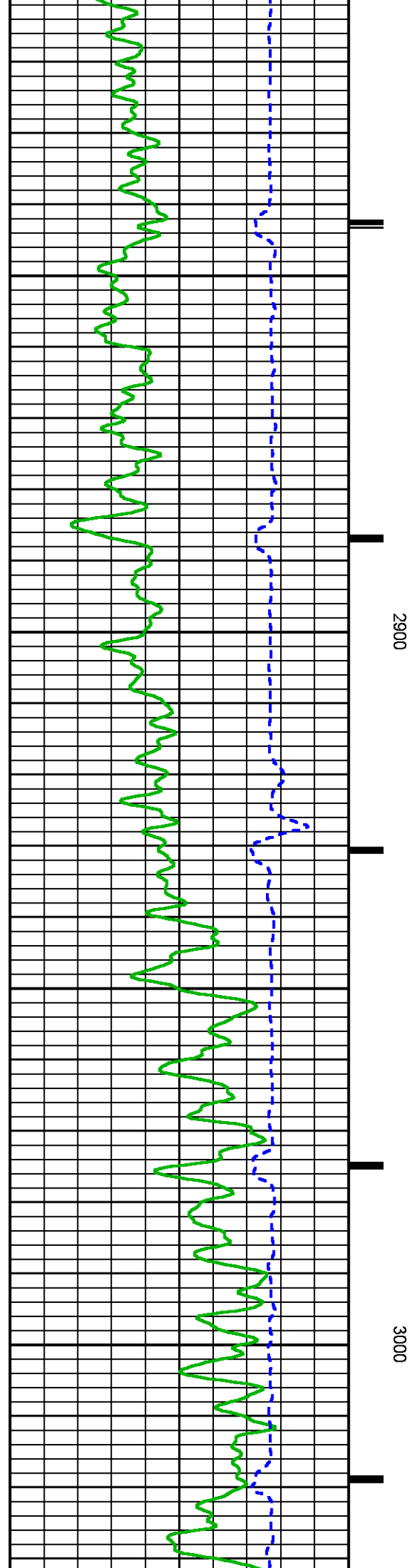
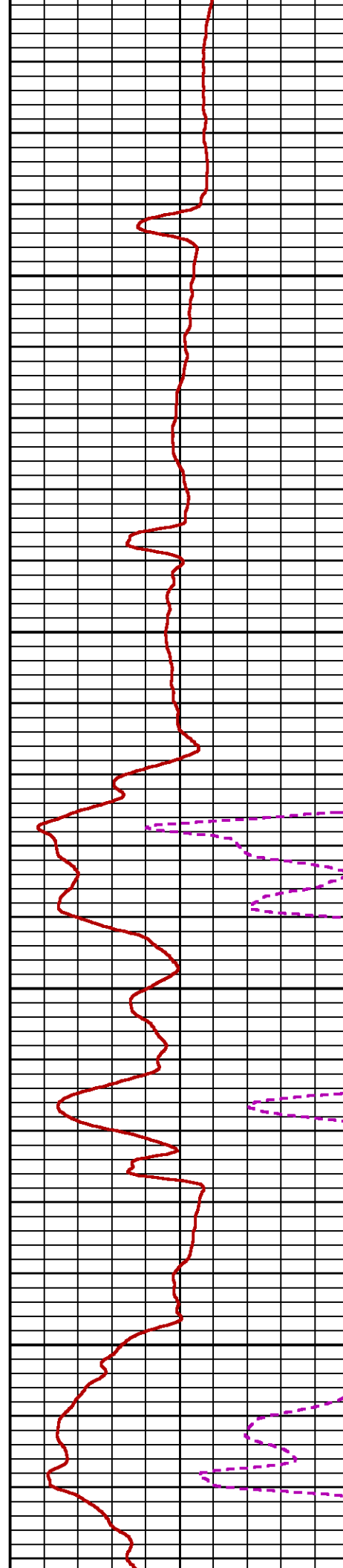
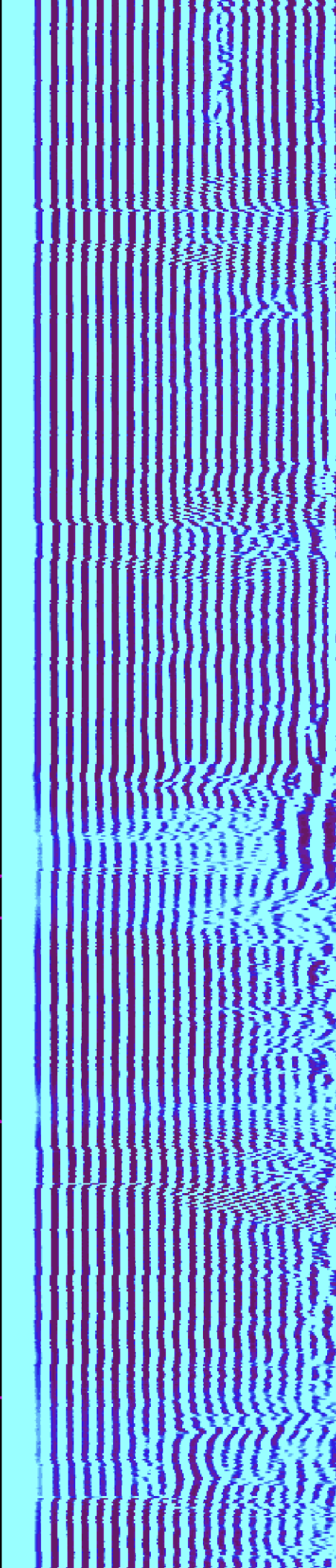


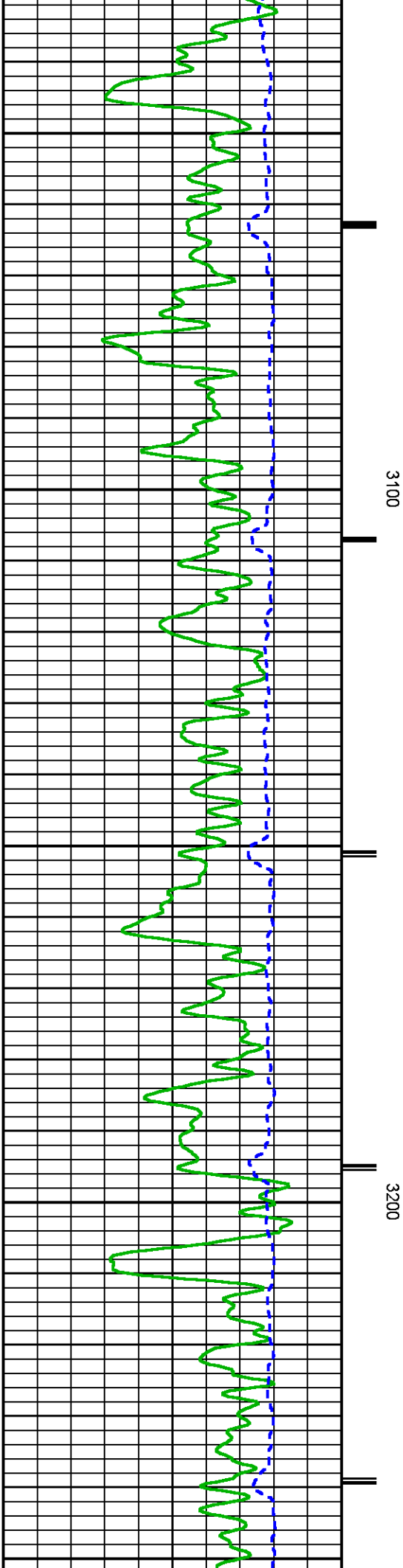
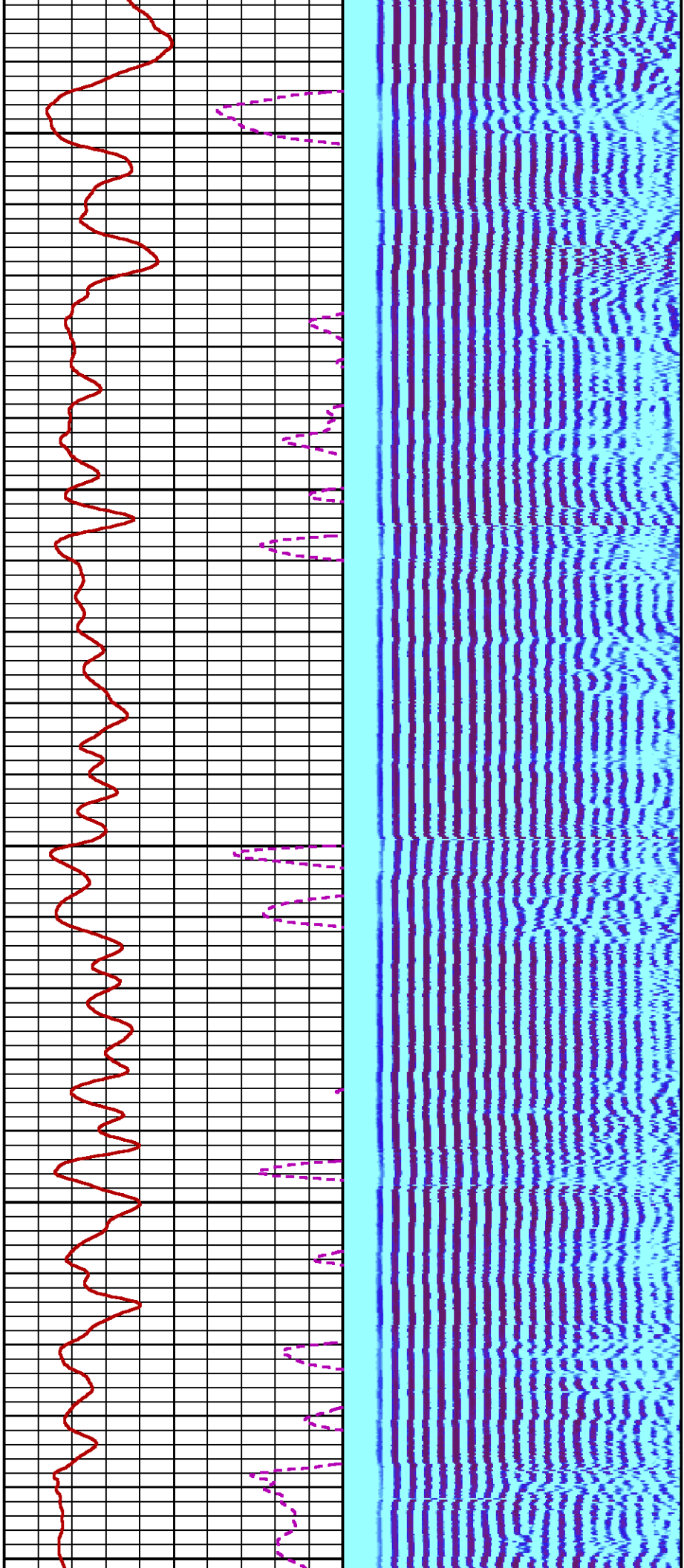


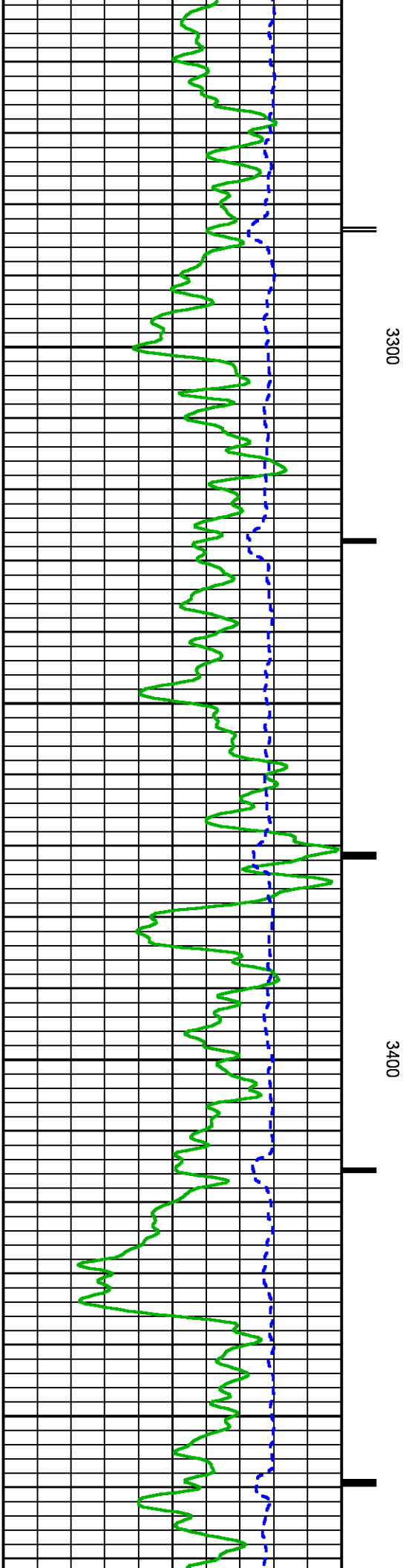
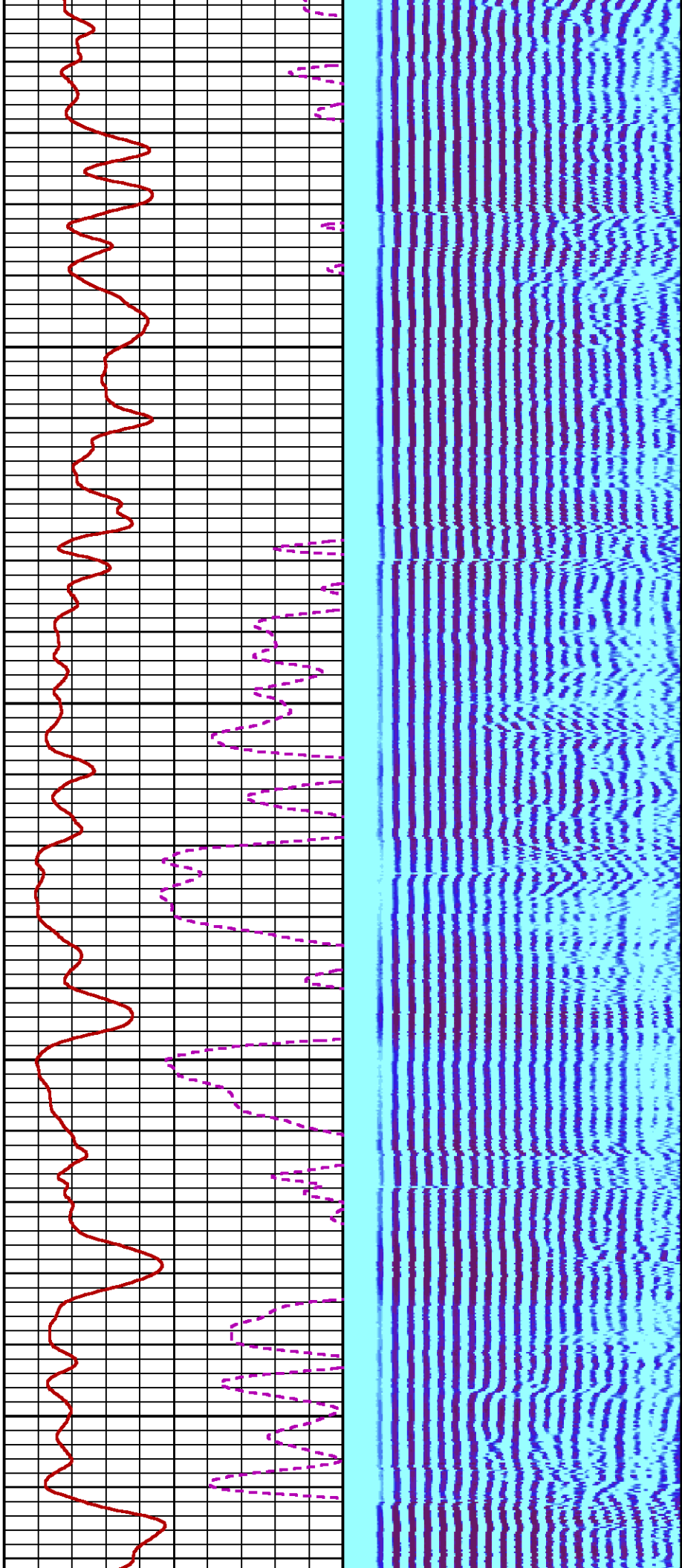




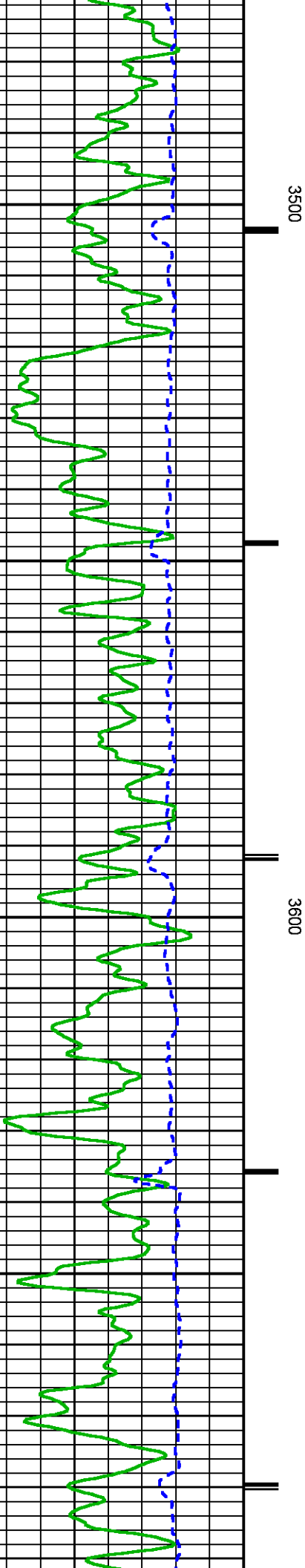
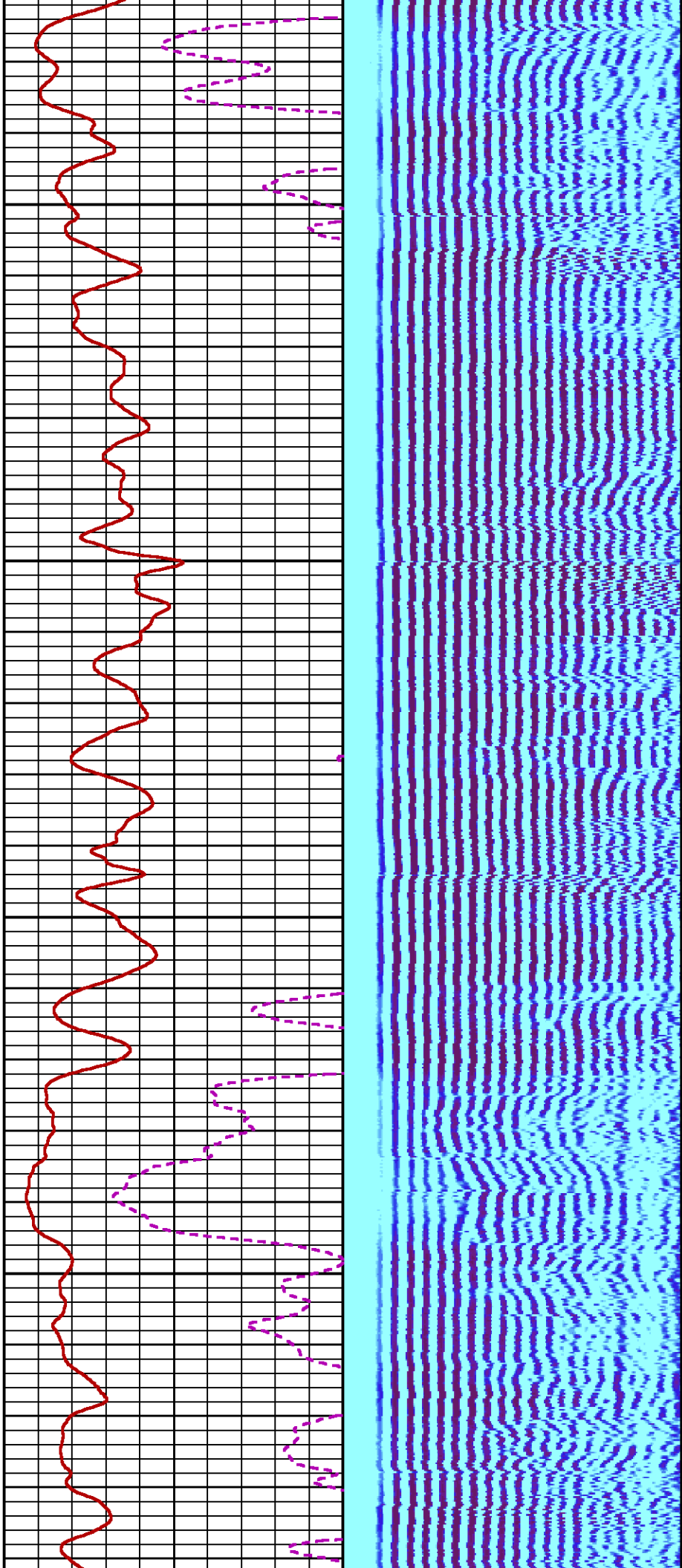


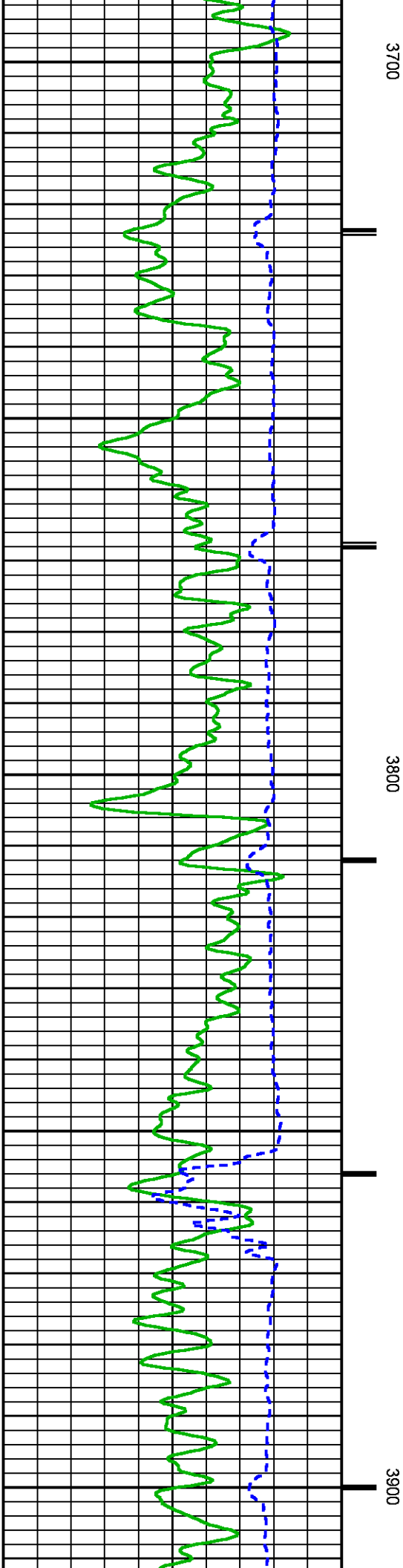
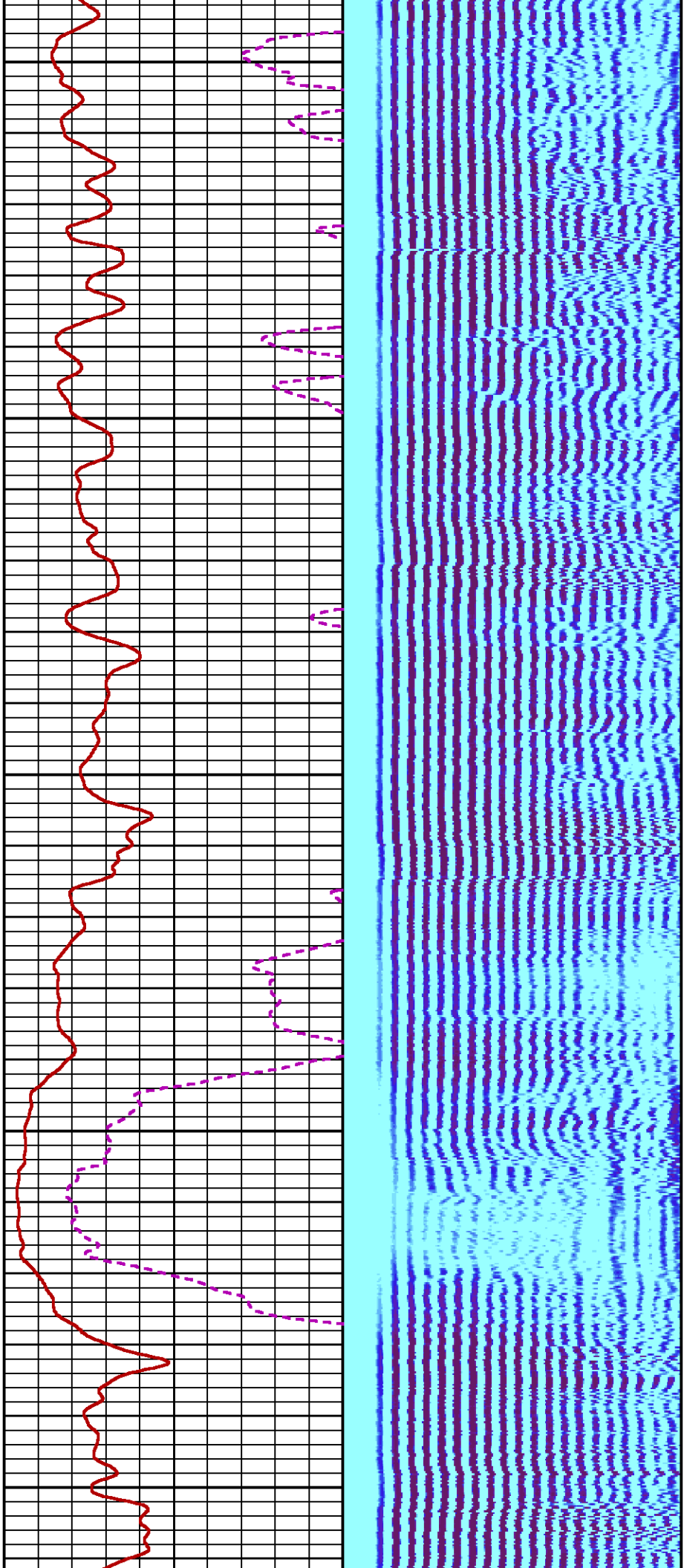


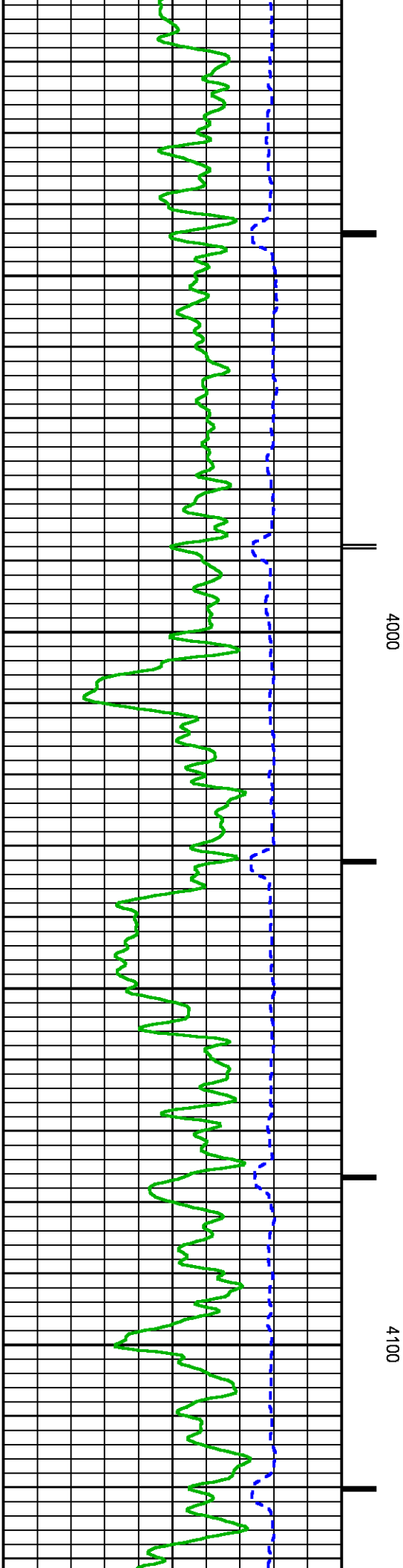
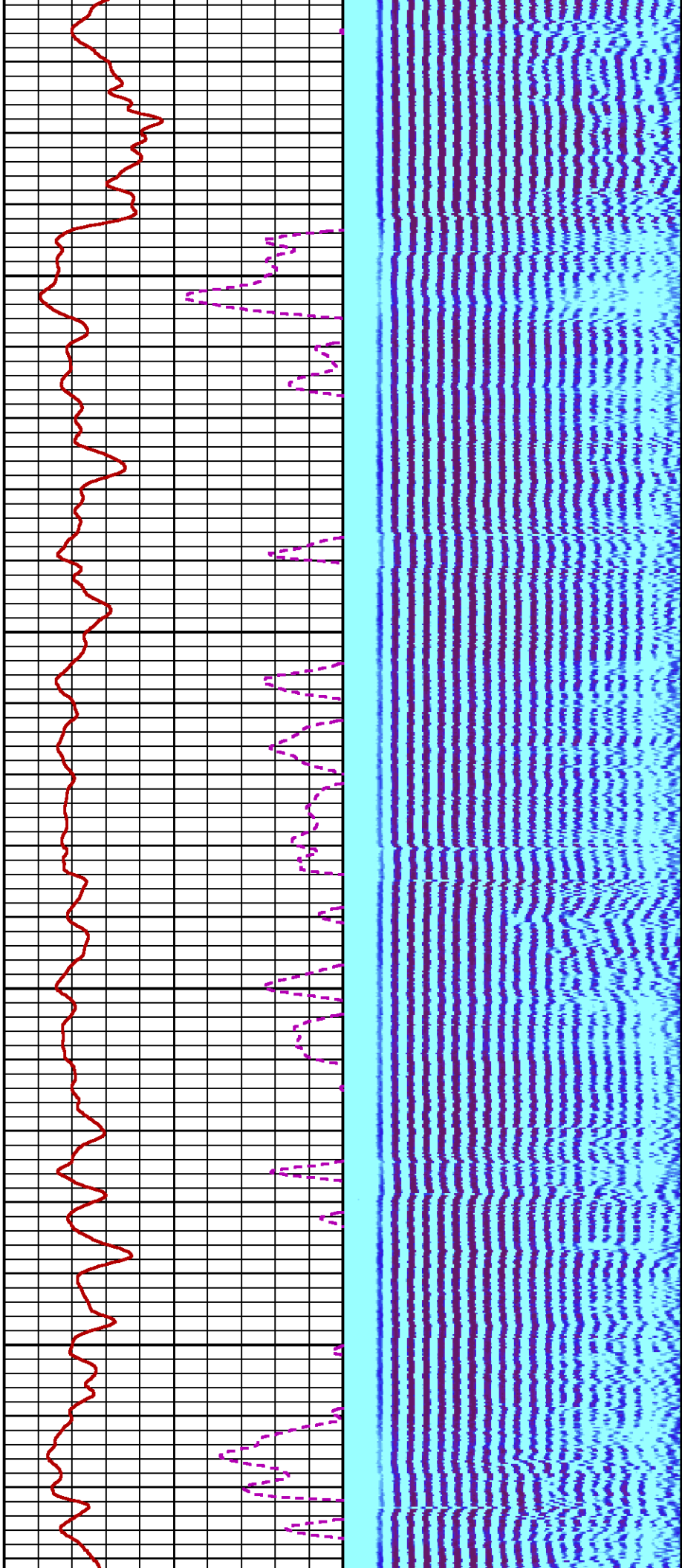




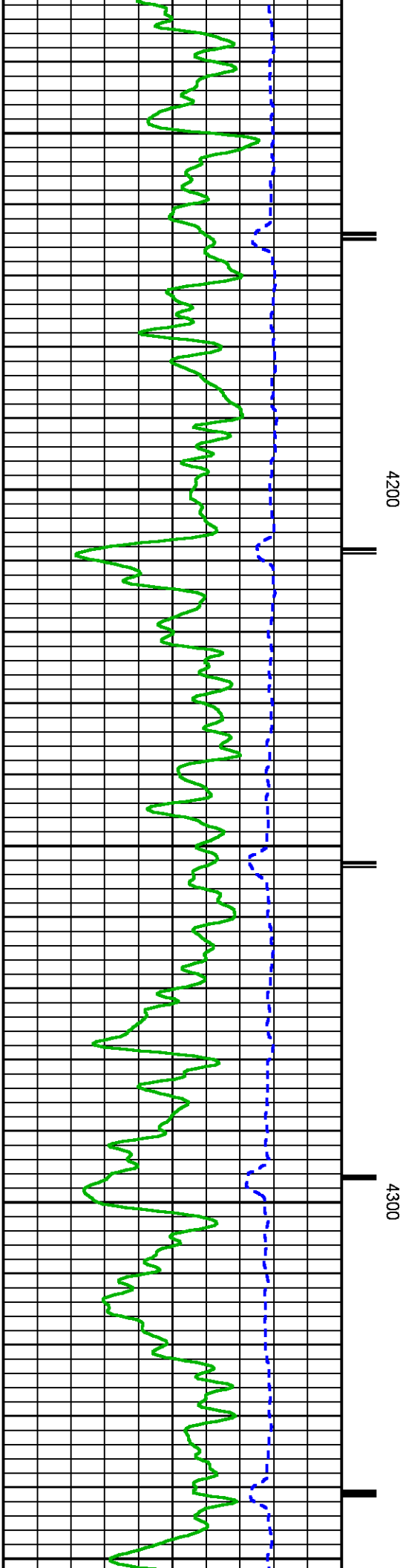
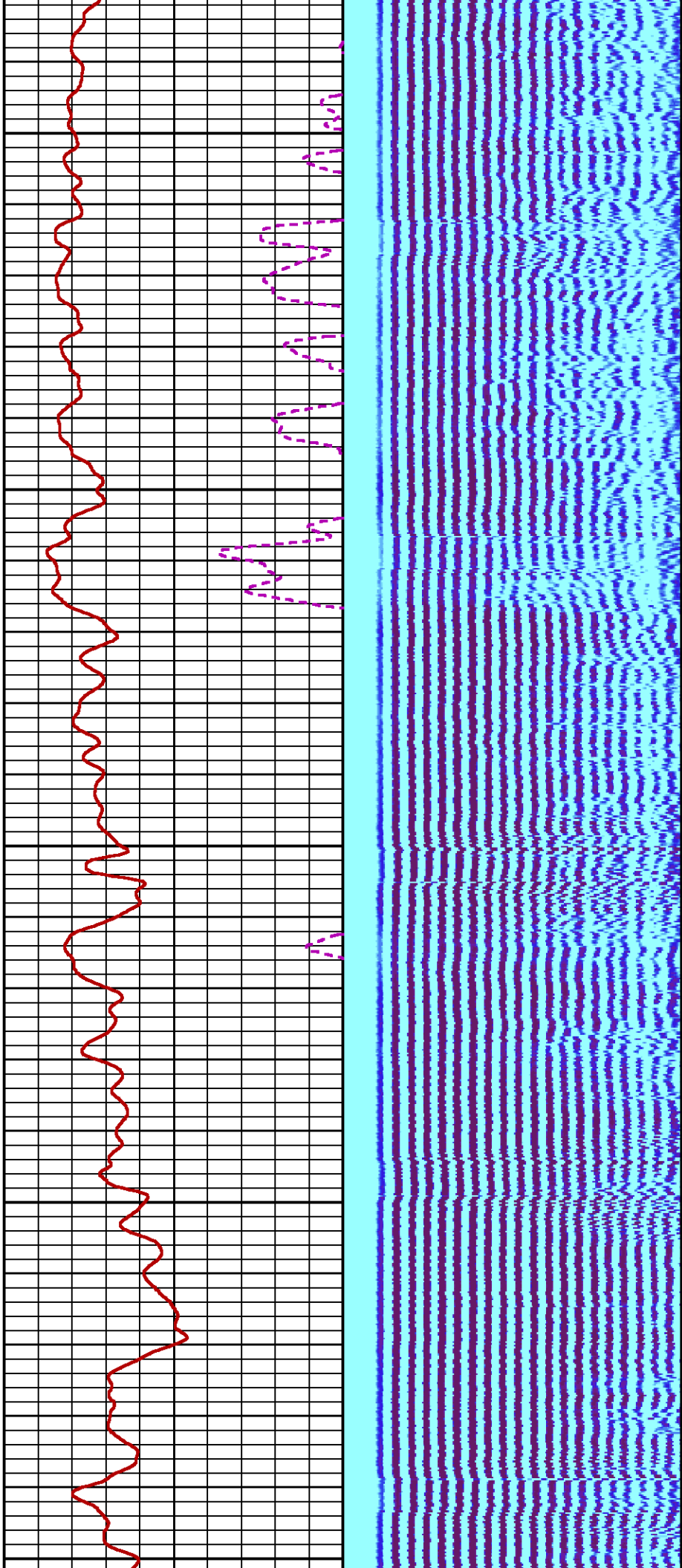


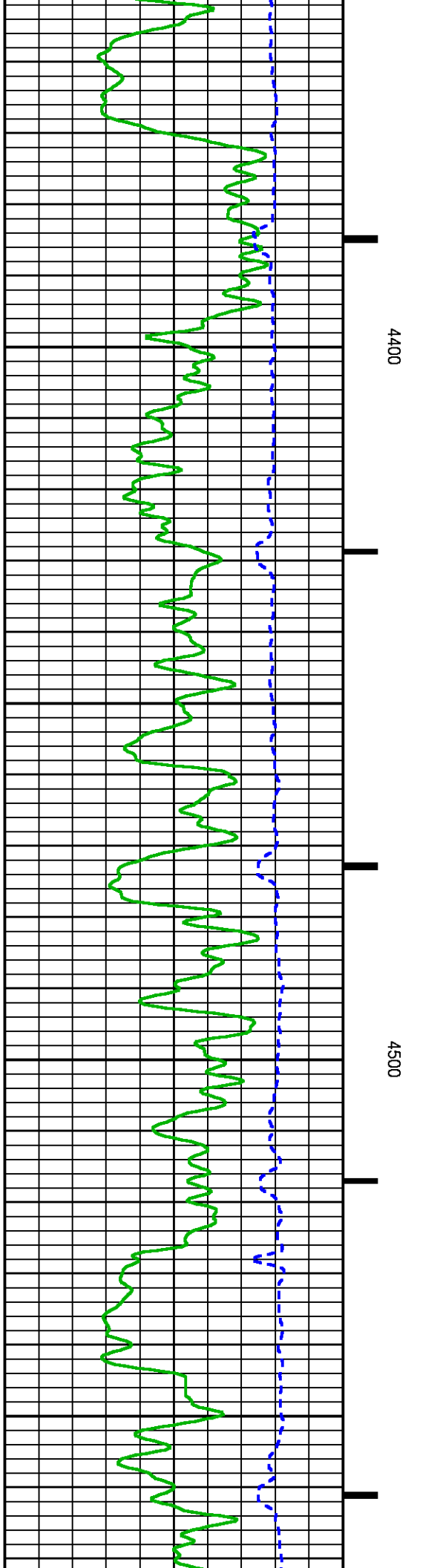
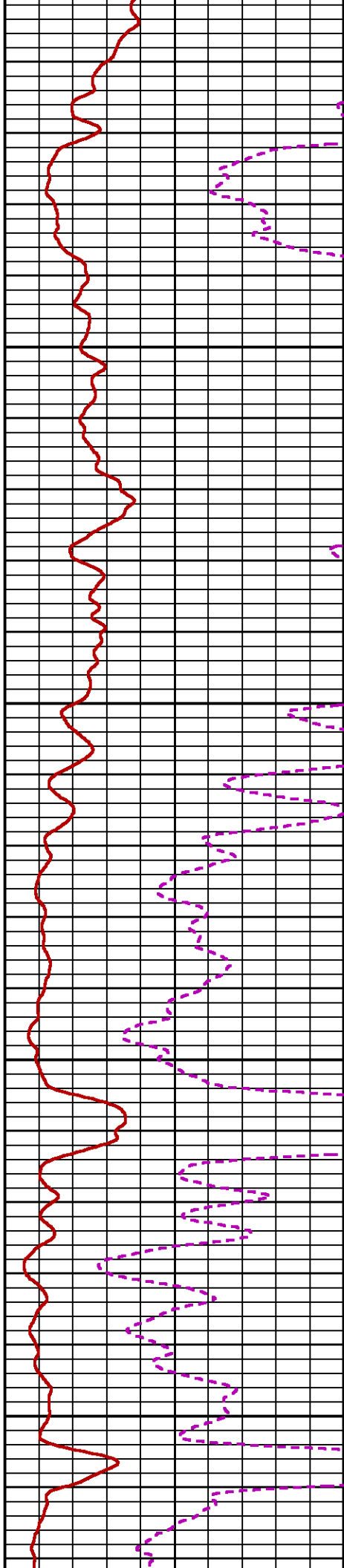
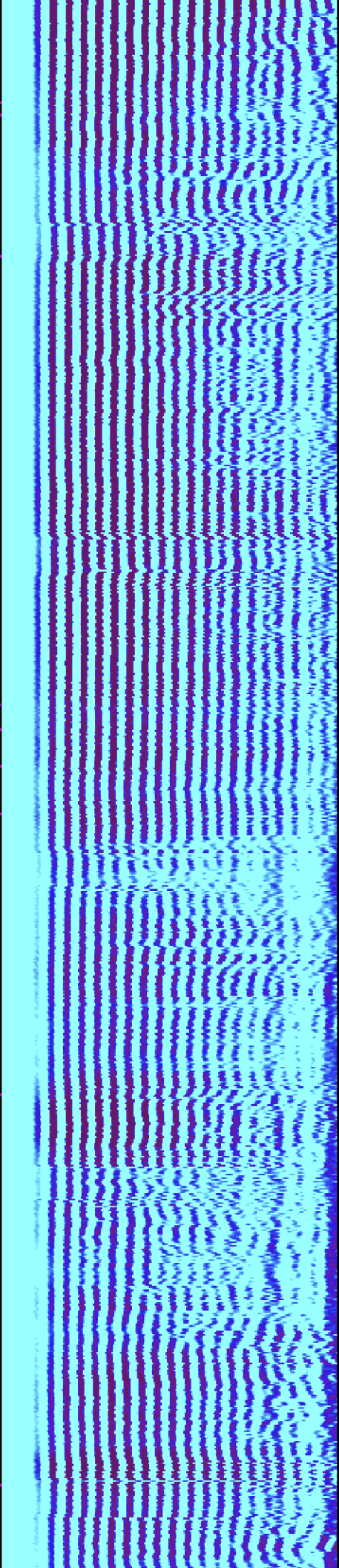


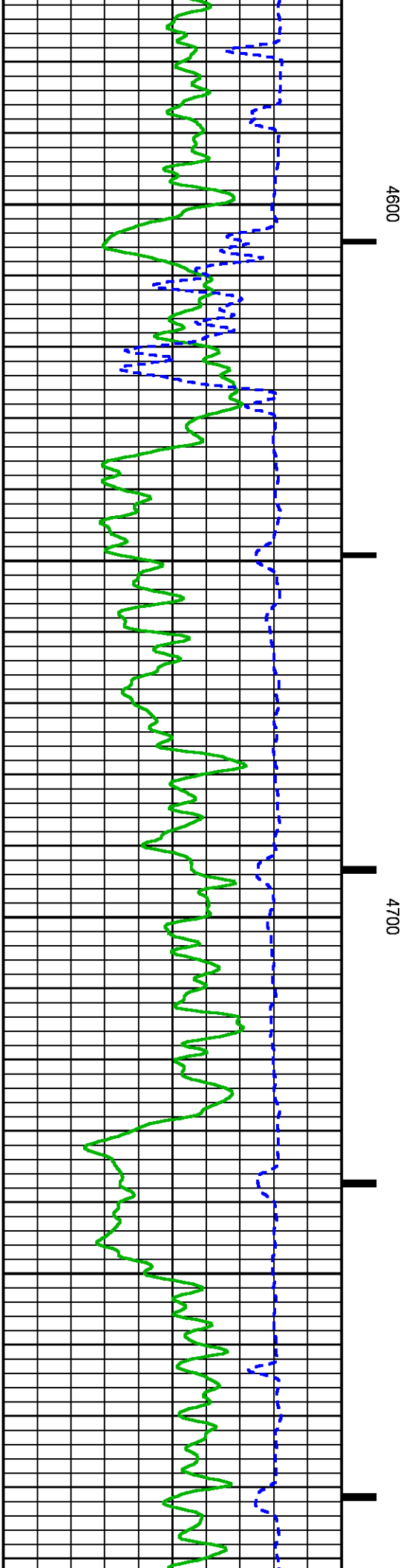
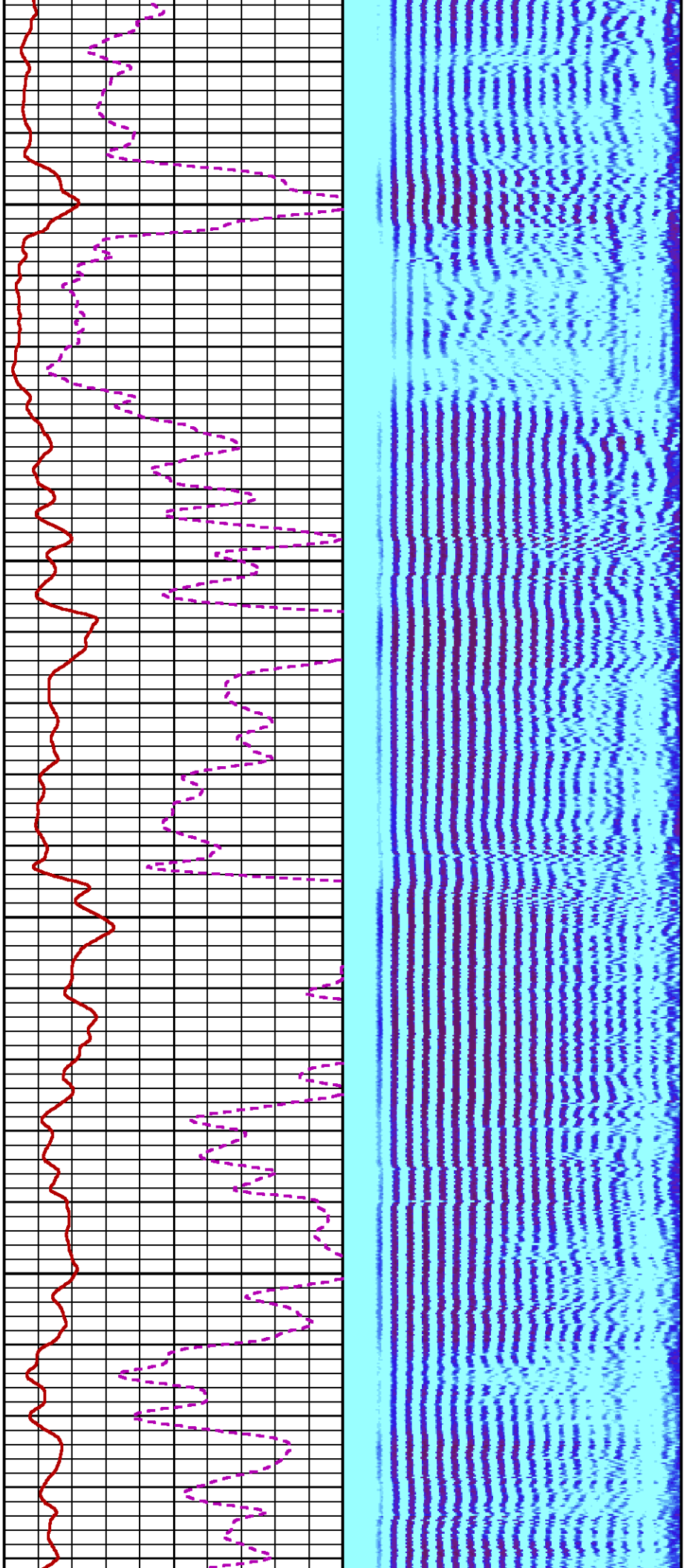




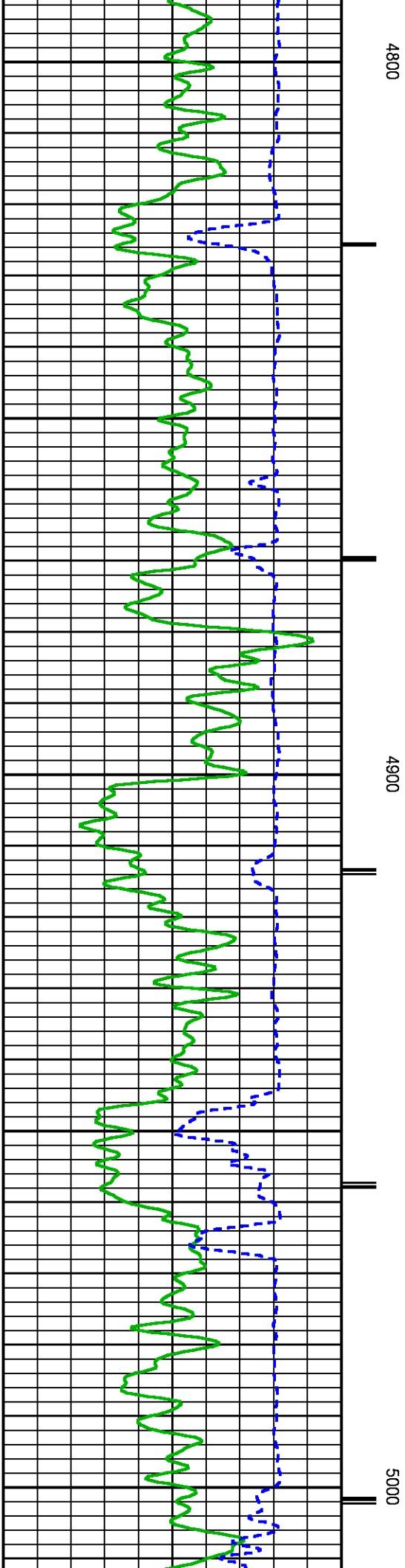
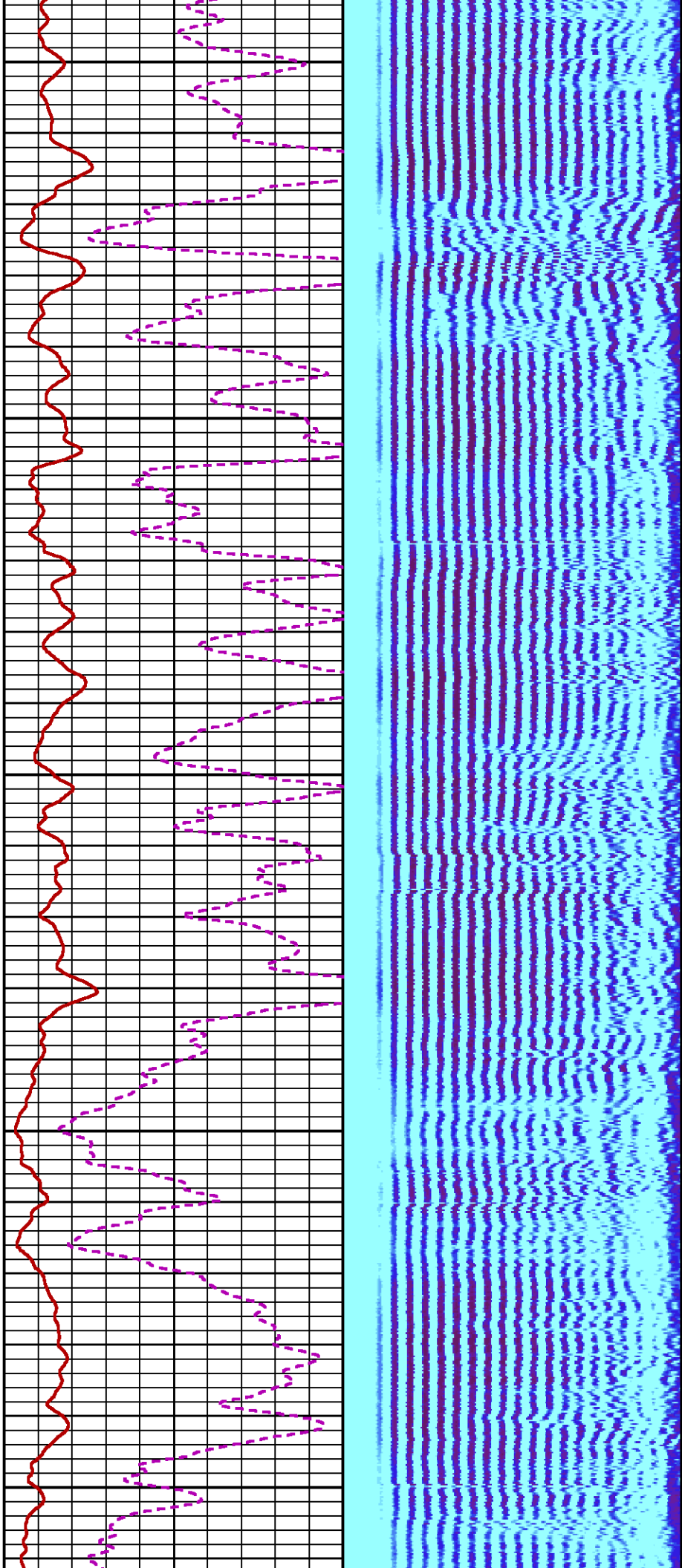




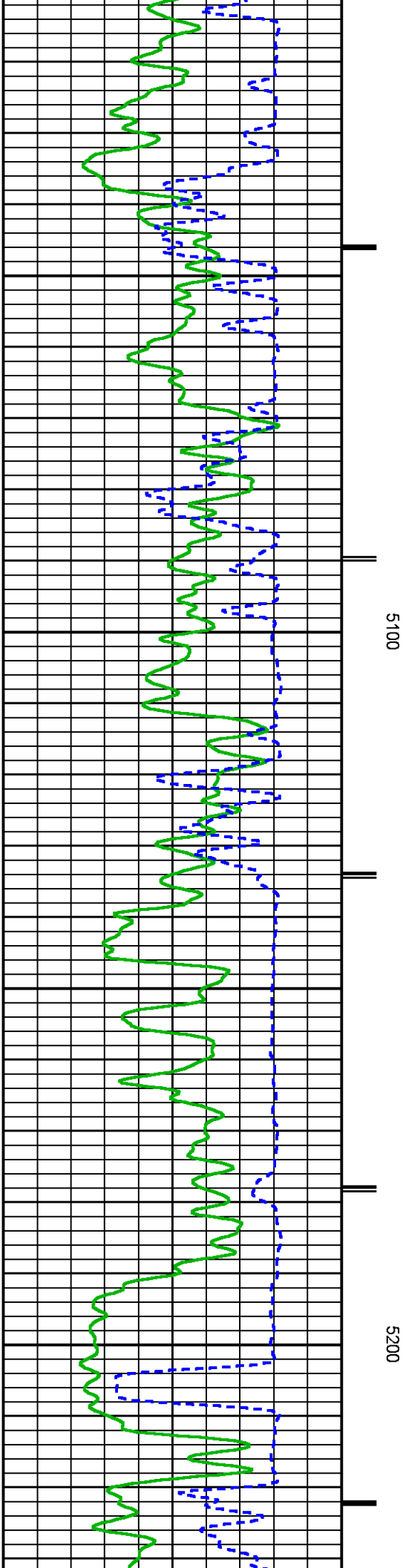
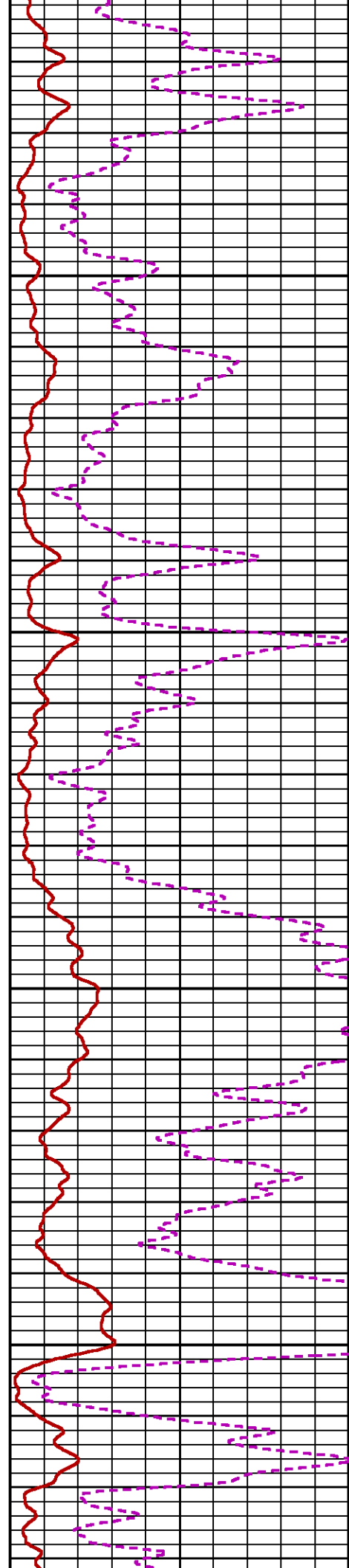
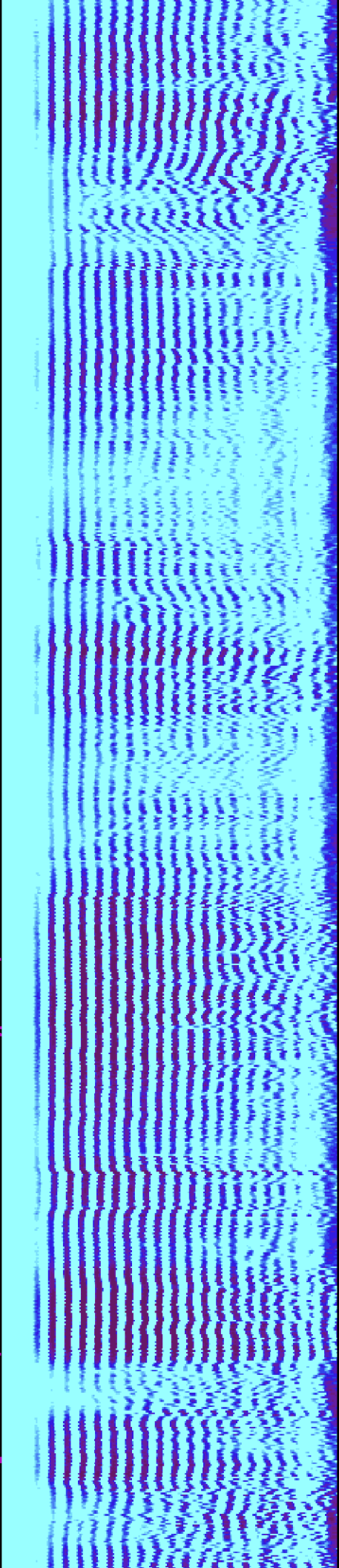


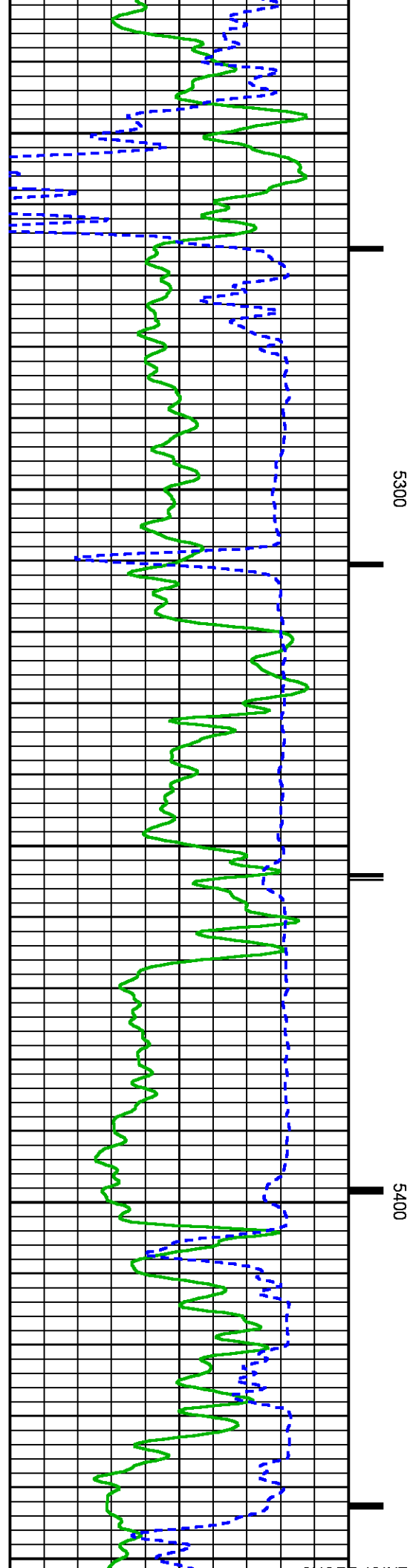
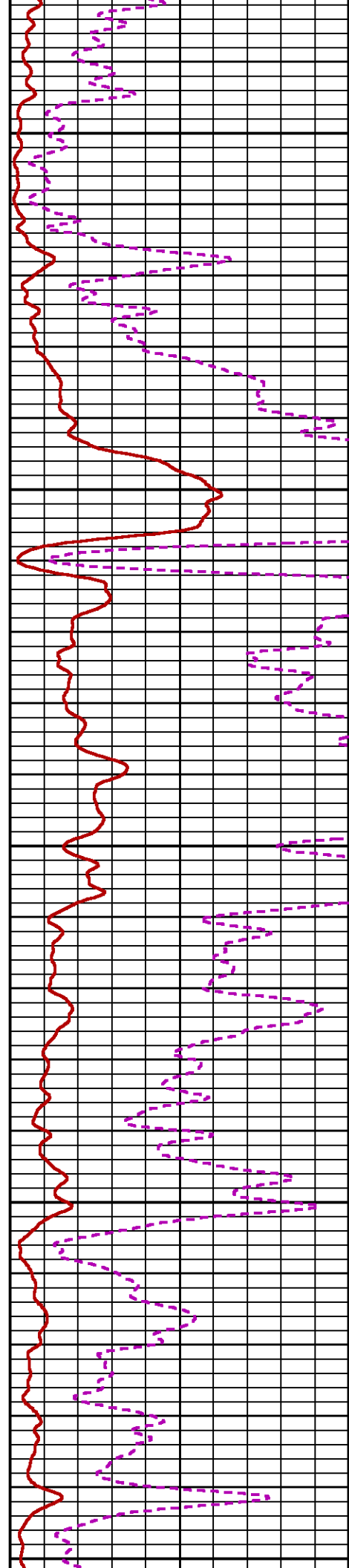
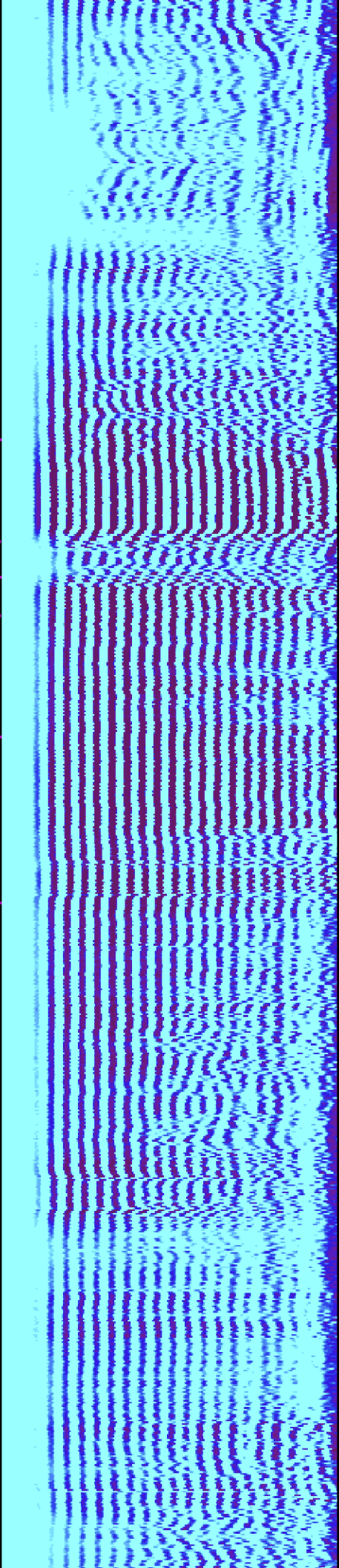








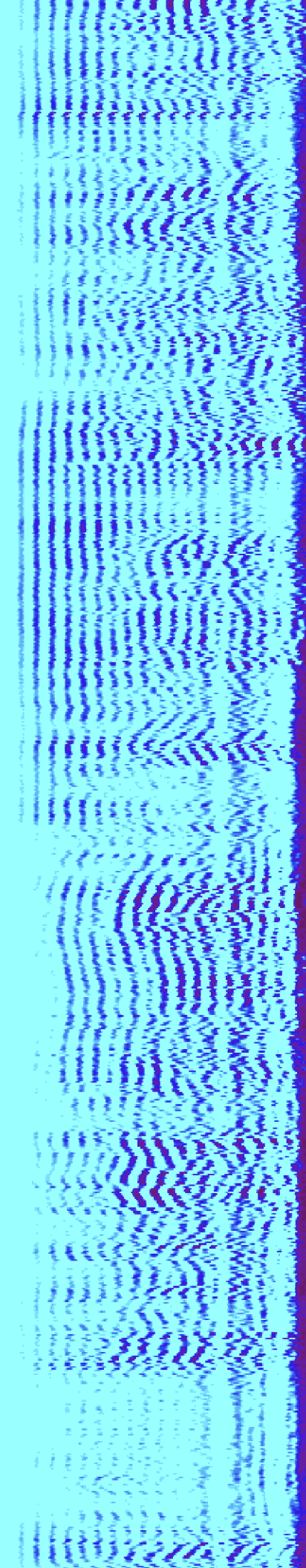
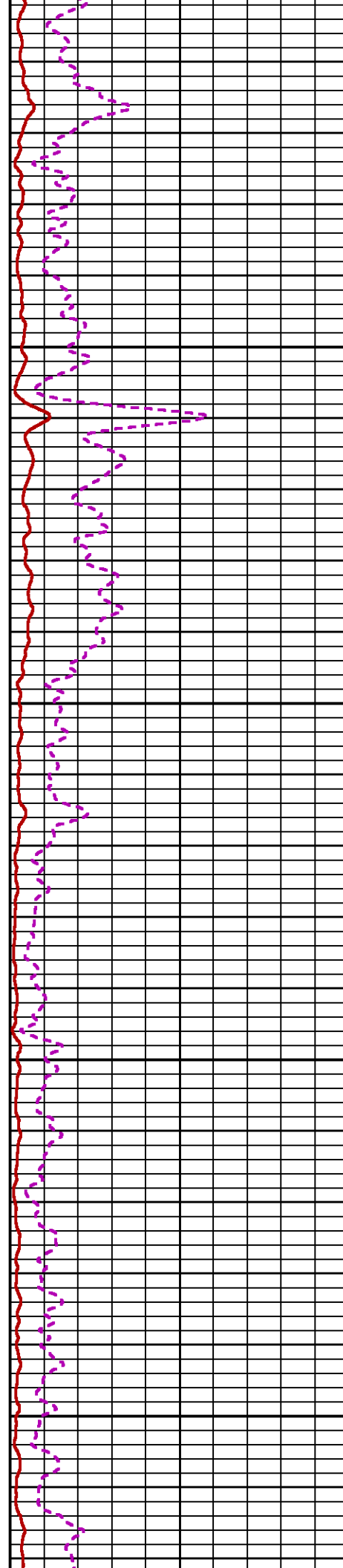
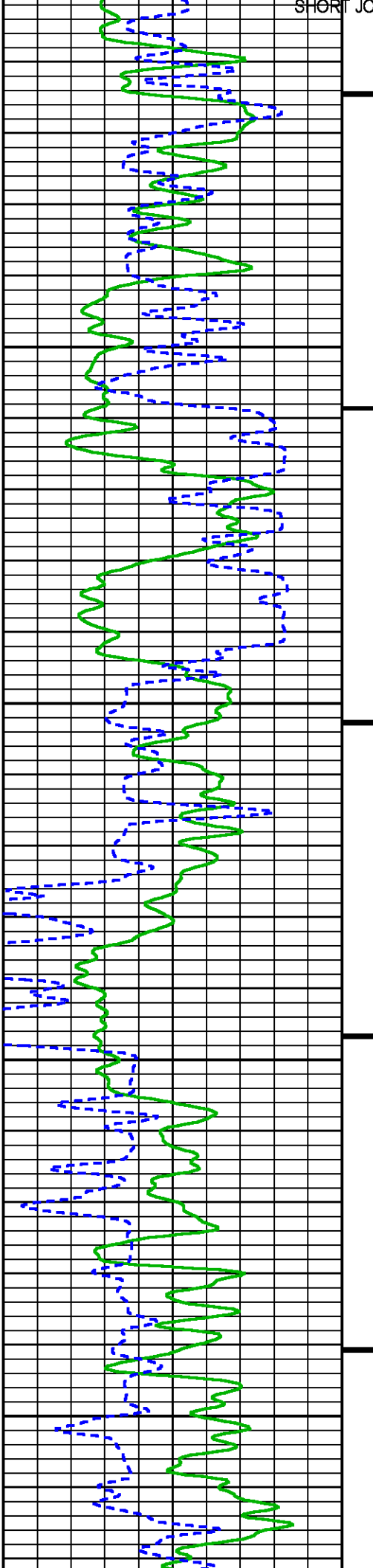


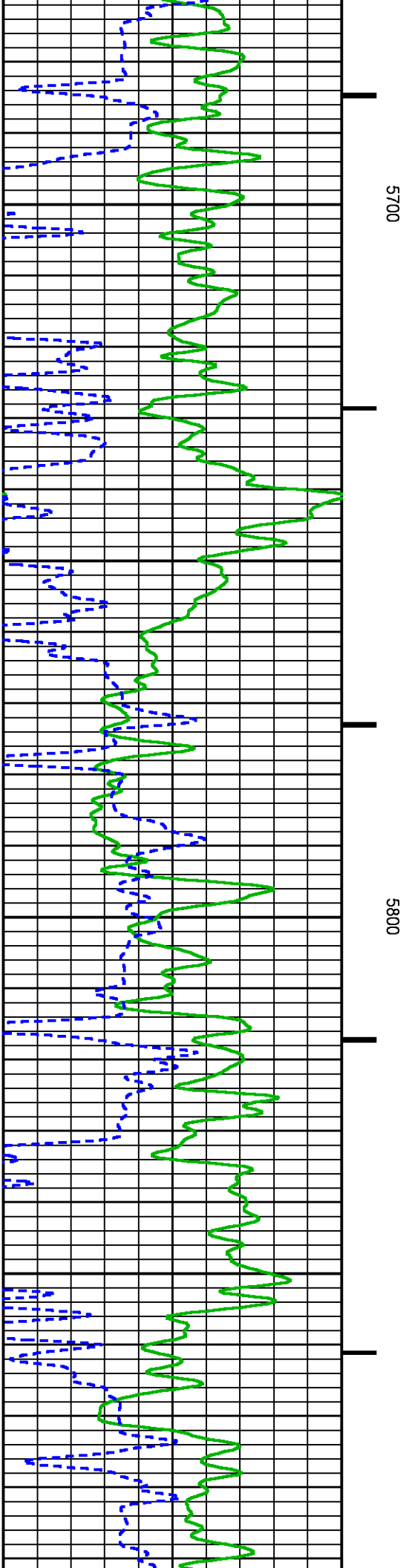
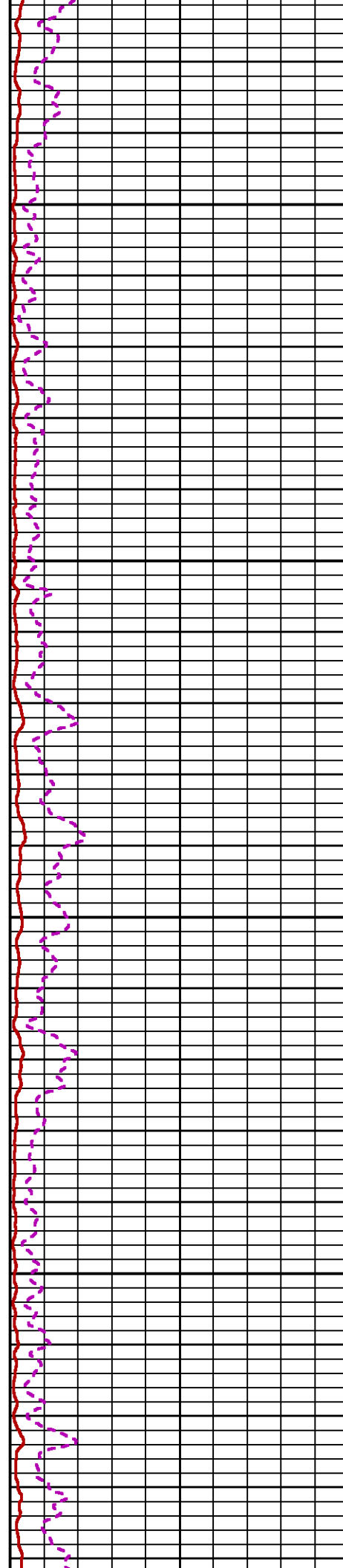
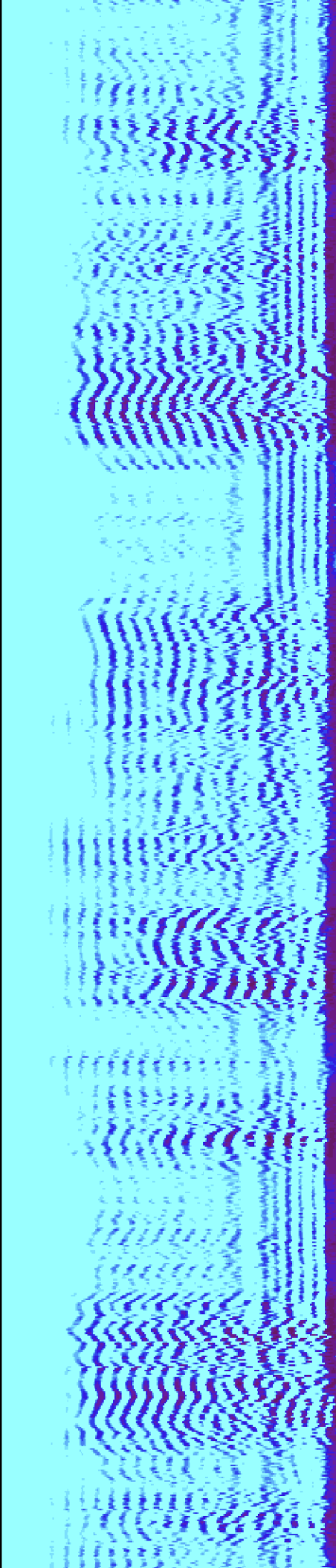


SHORT JOINT

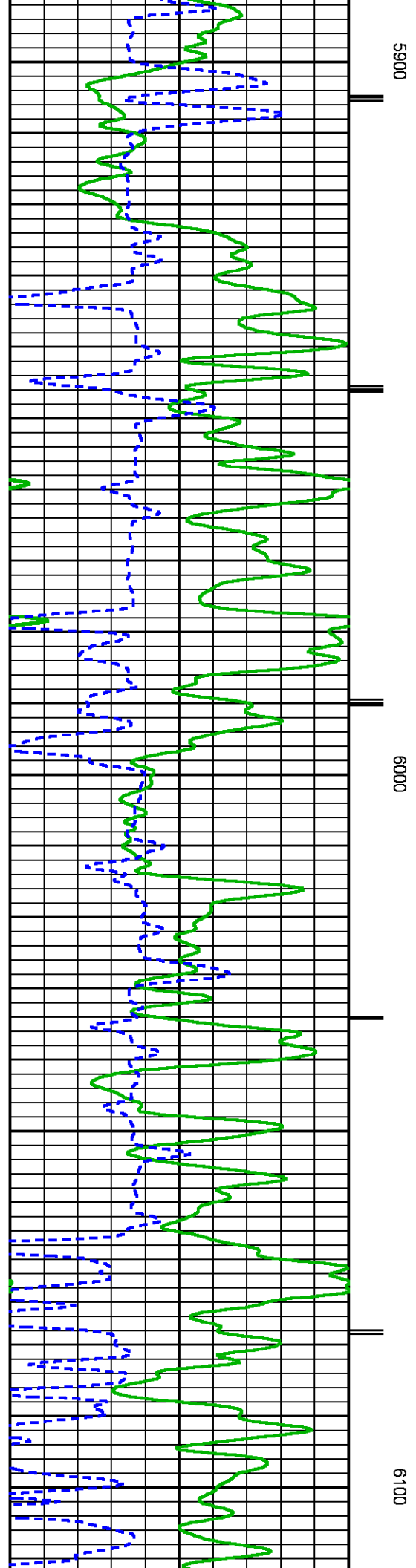
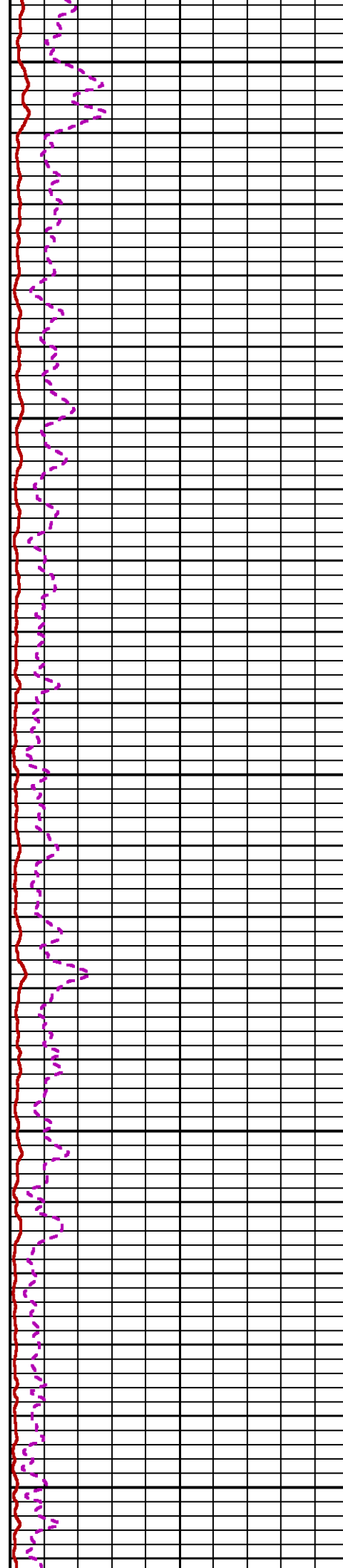
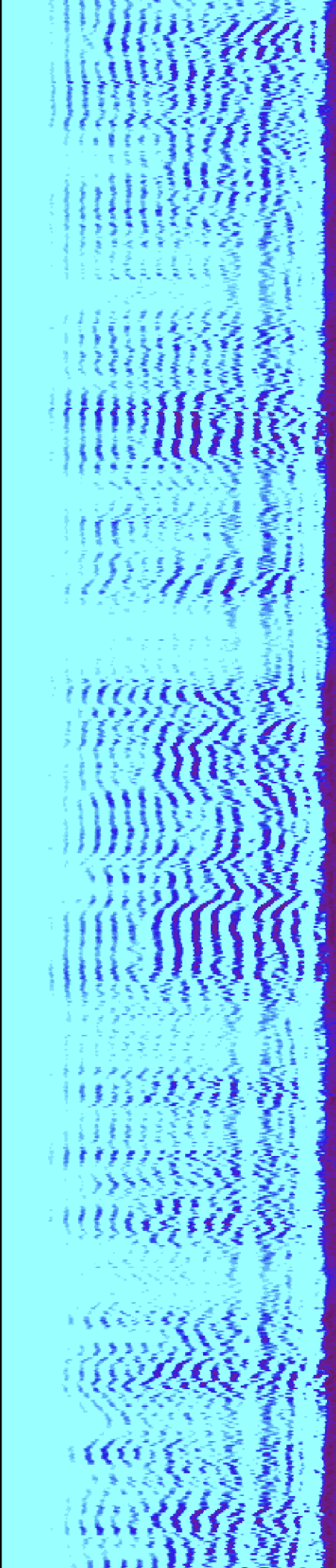
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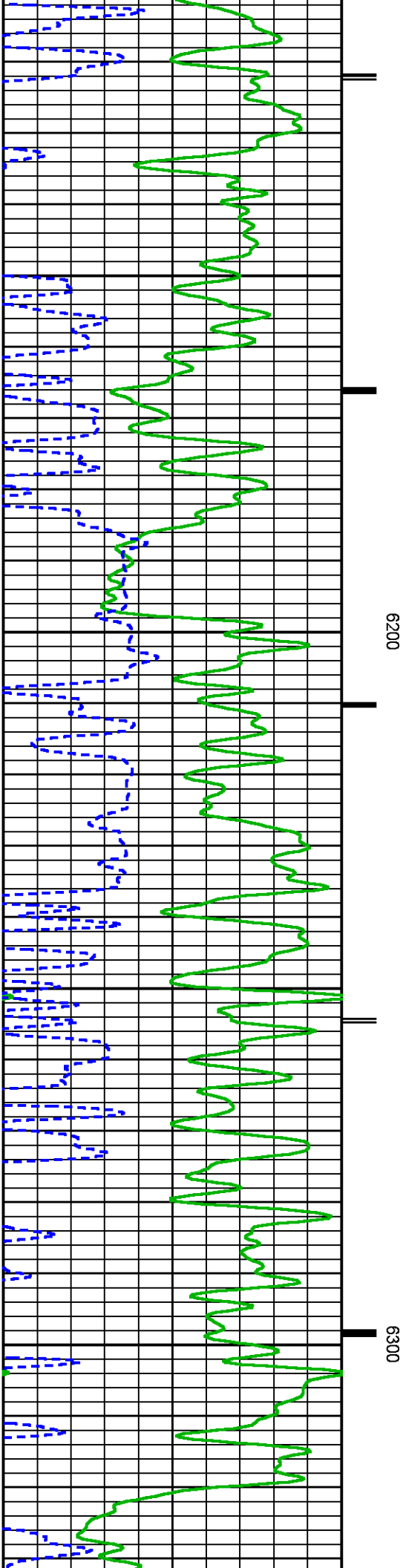
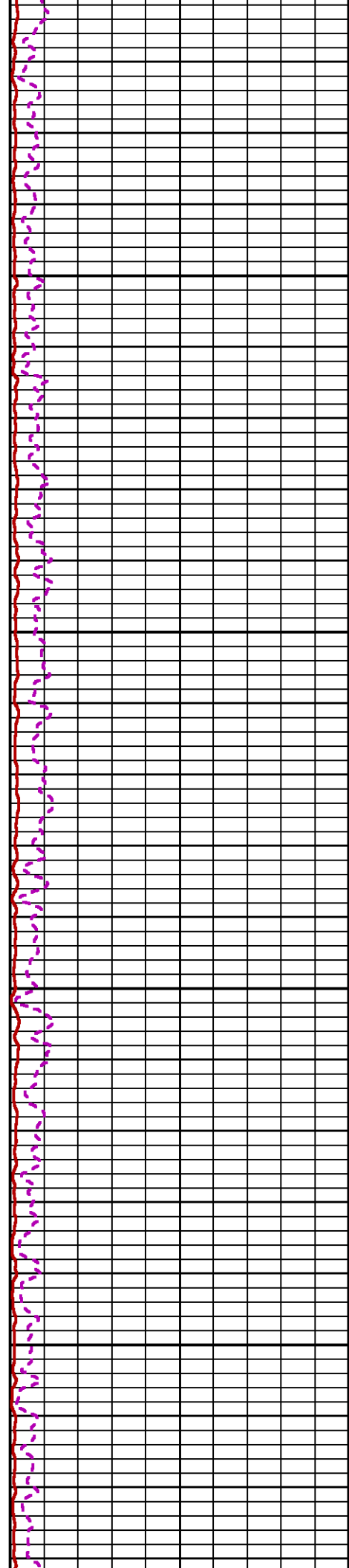
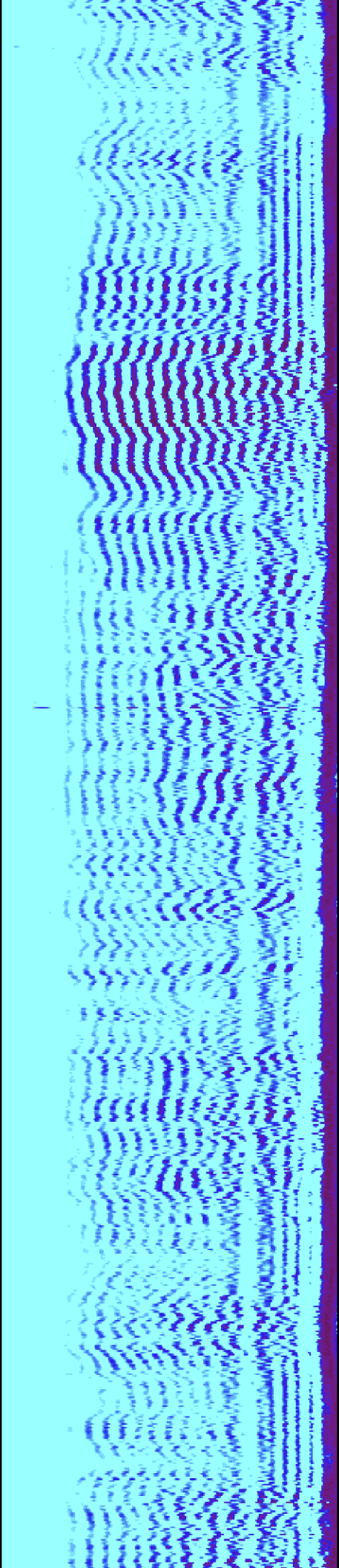
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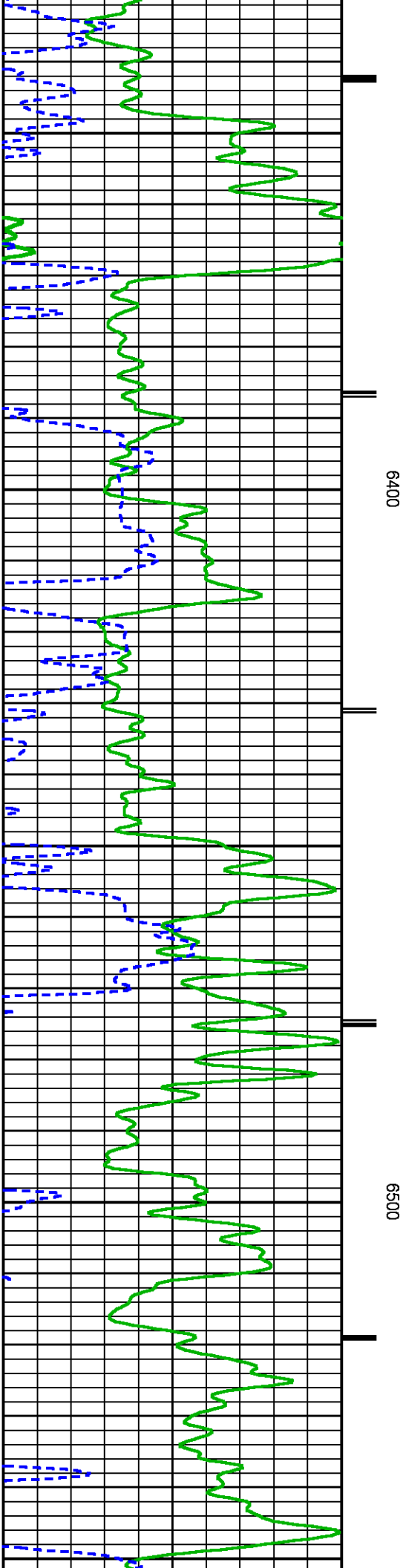
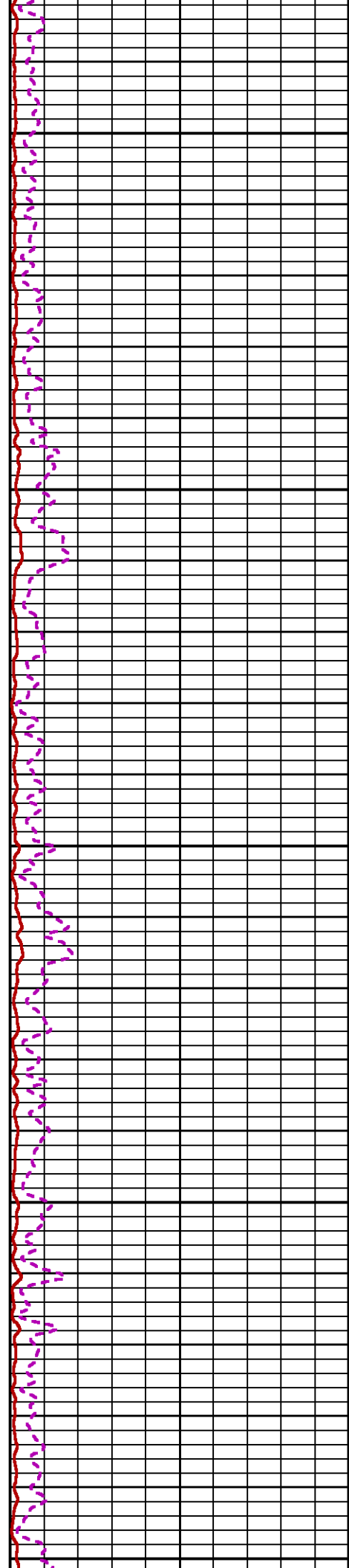
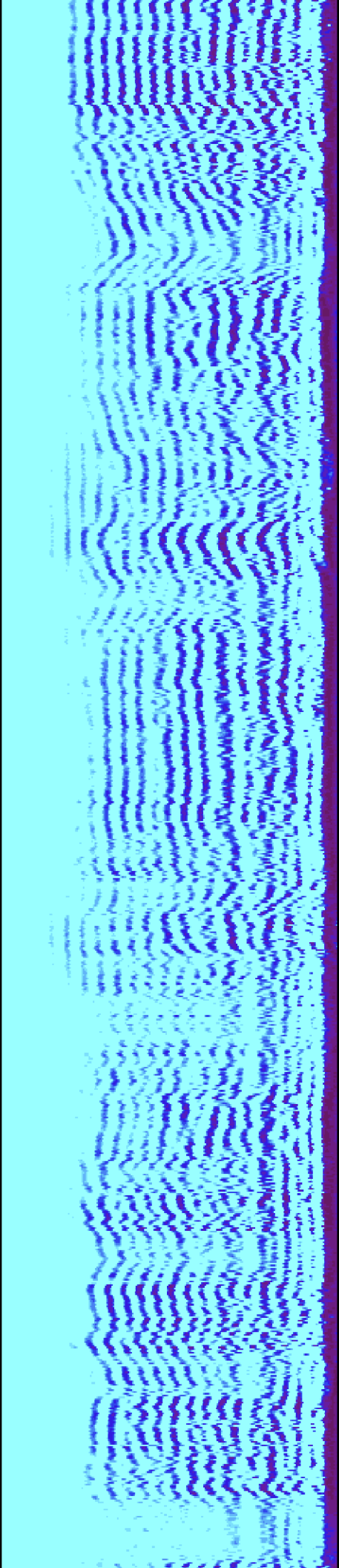




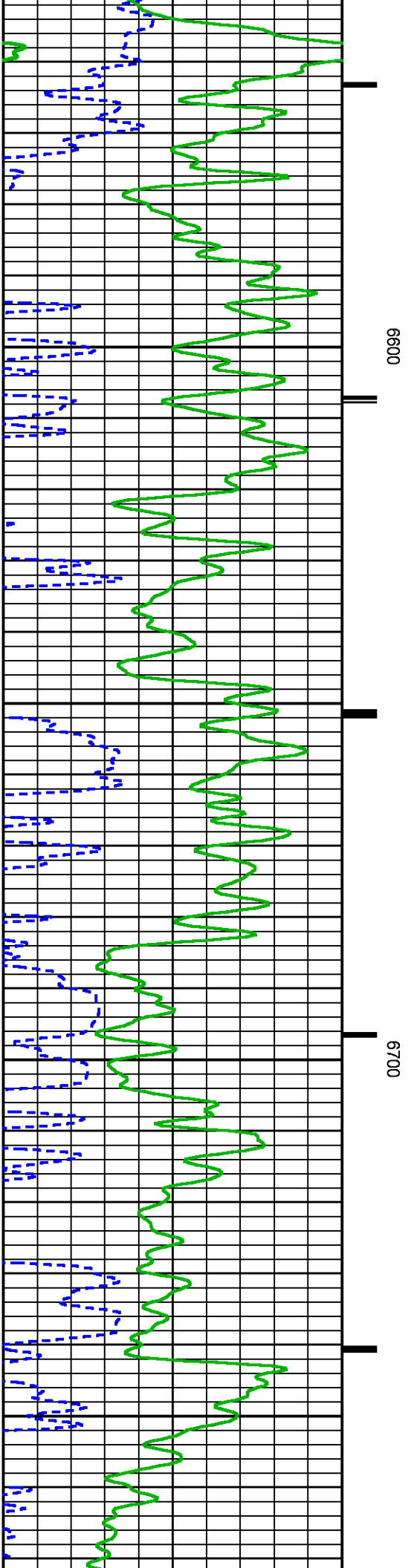
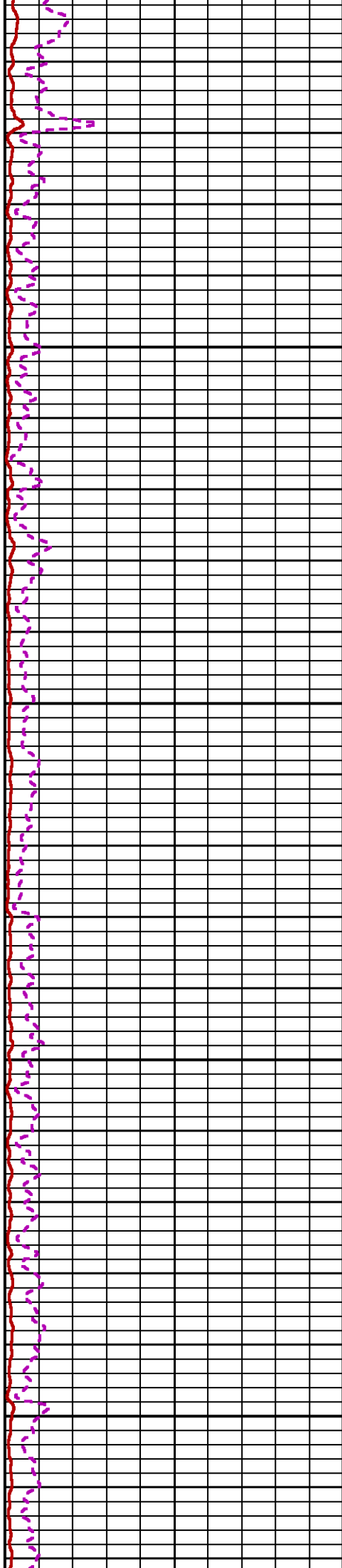
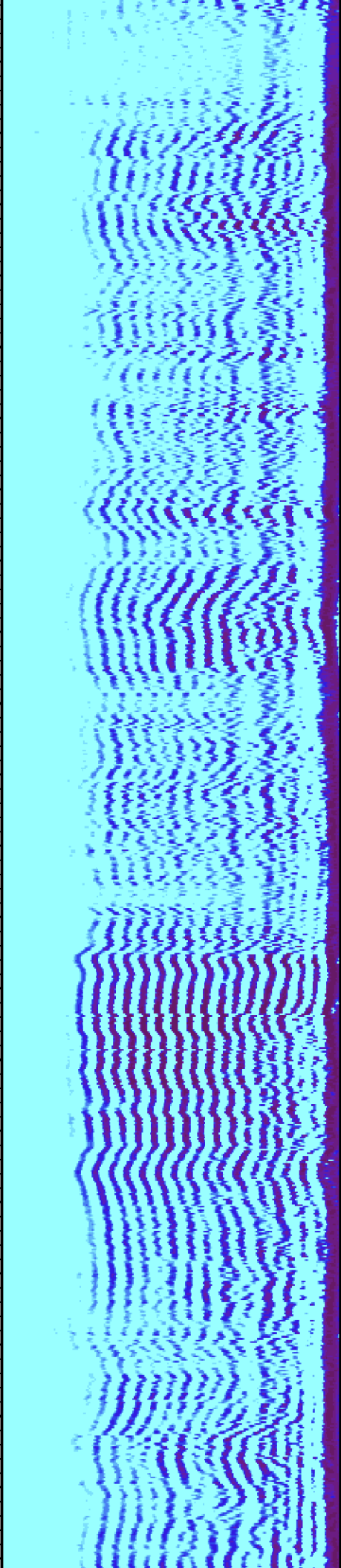


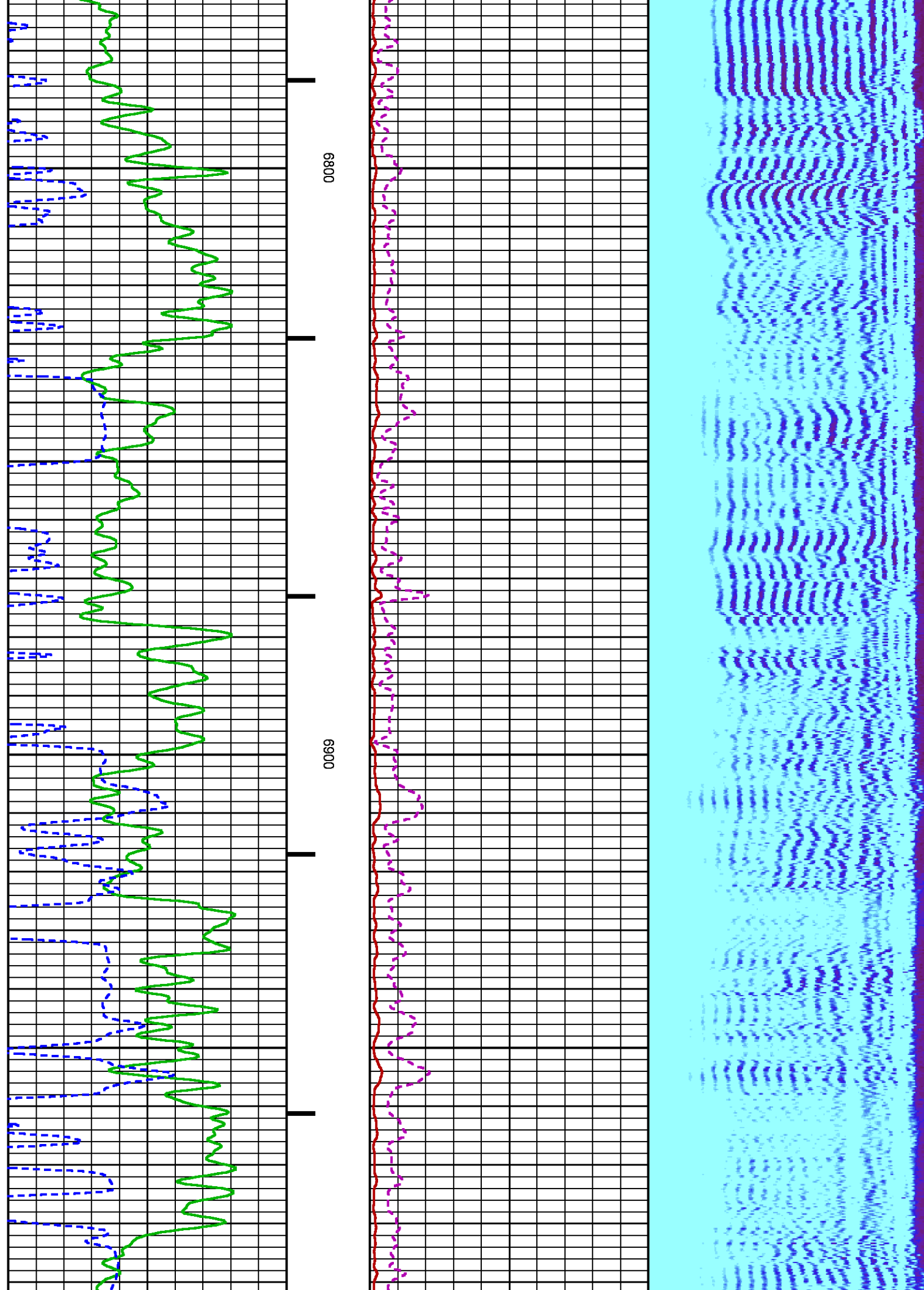


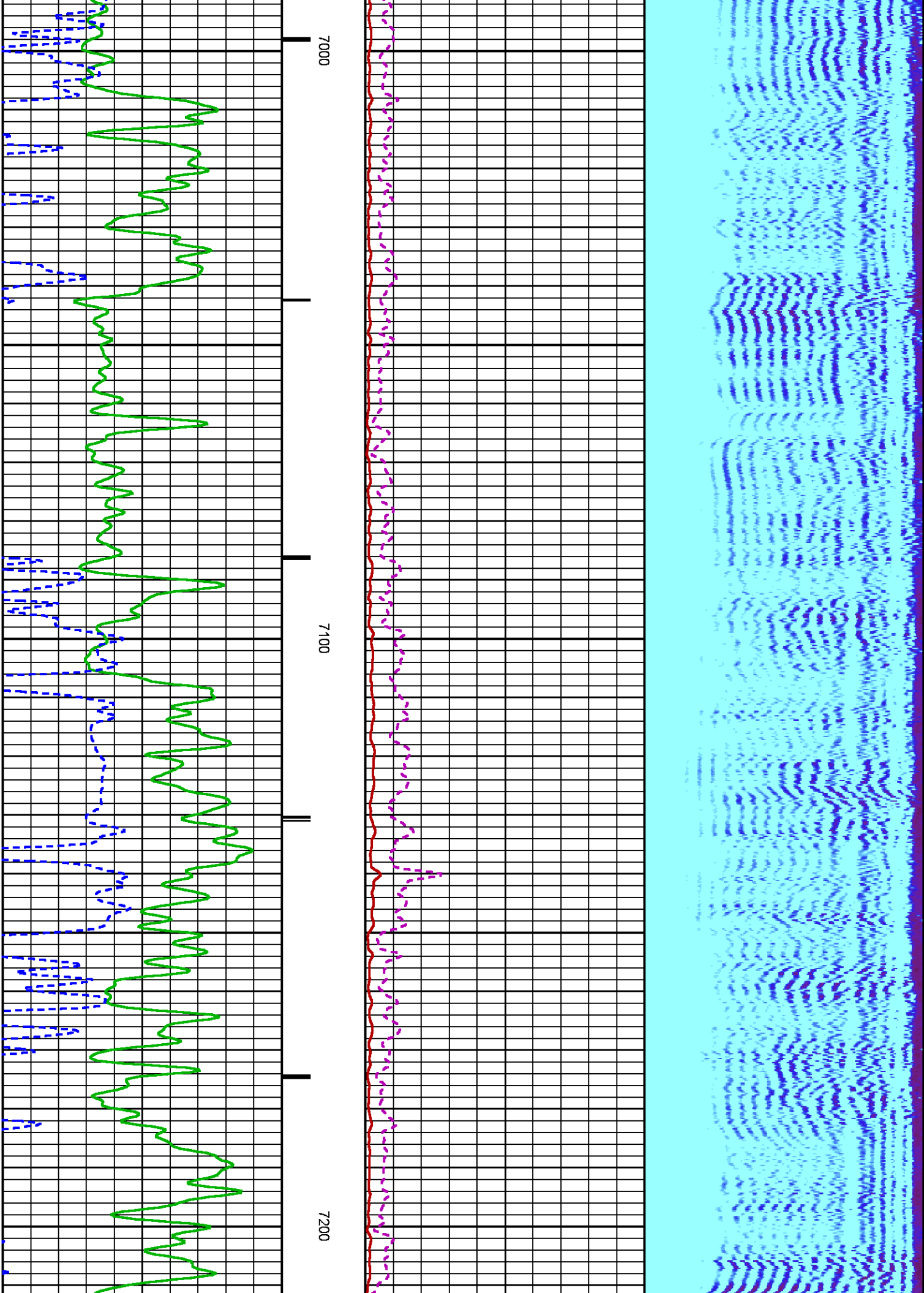


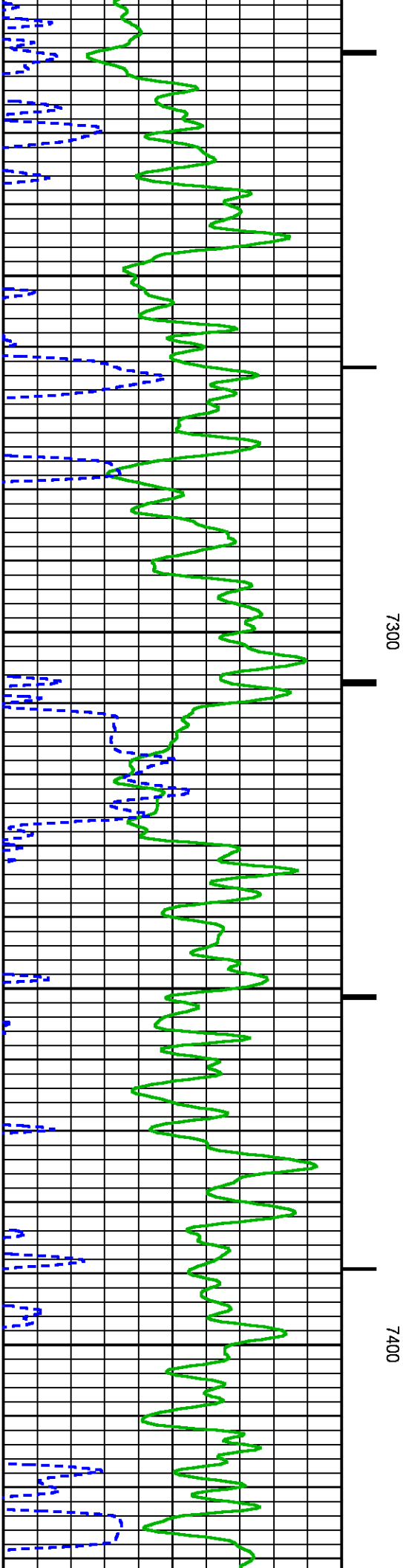
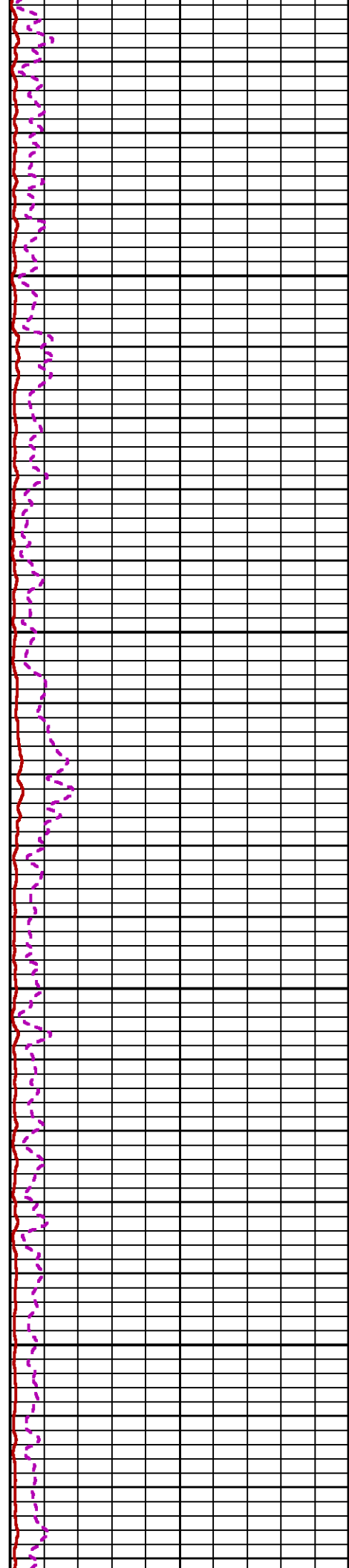
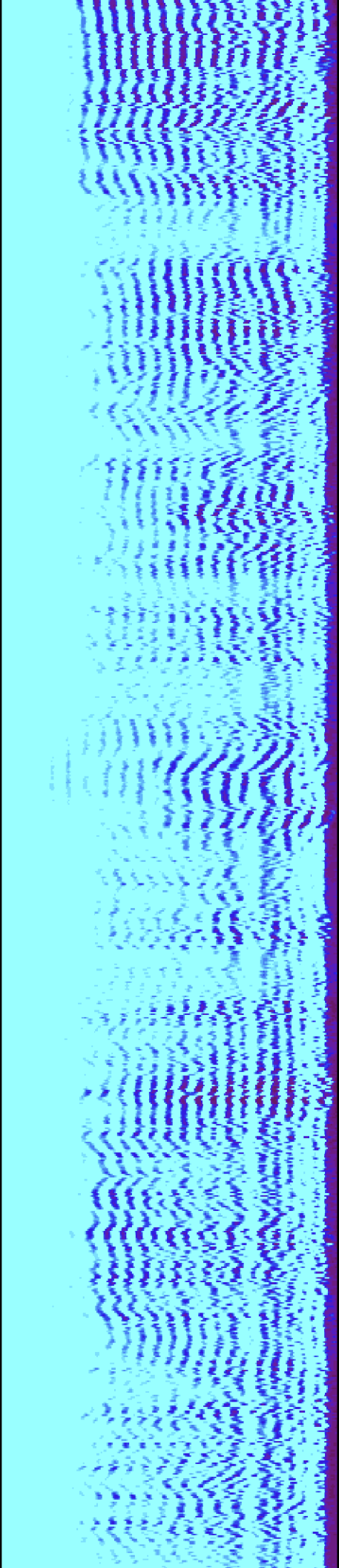




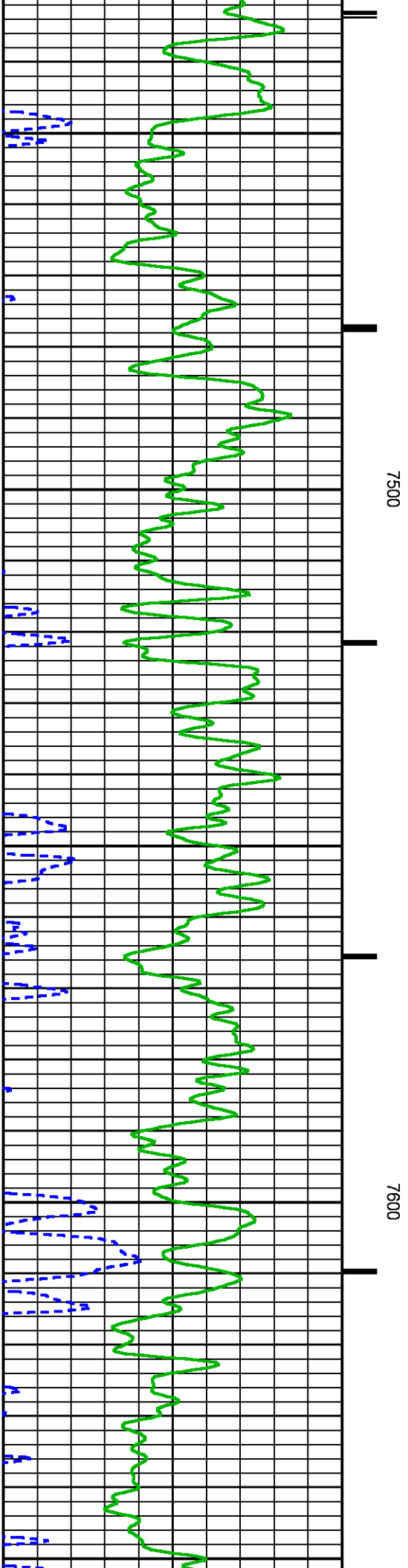
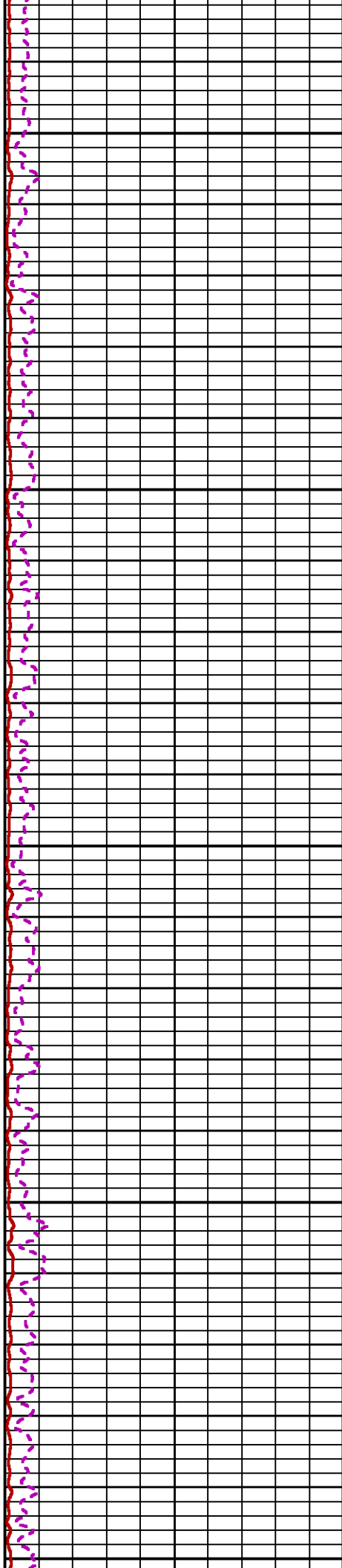
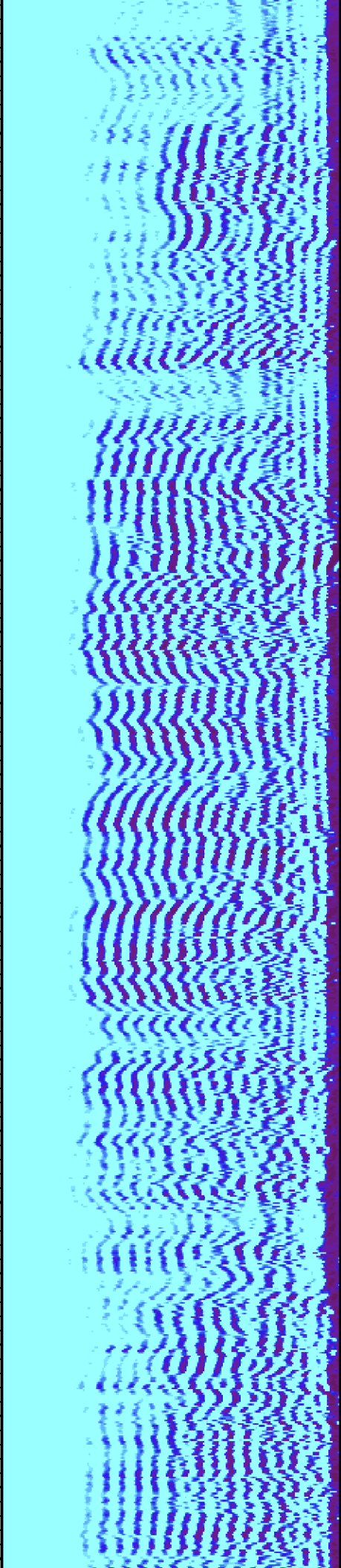


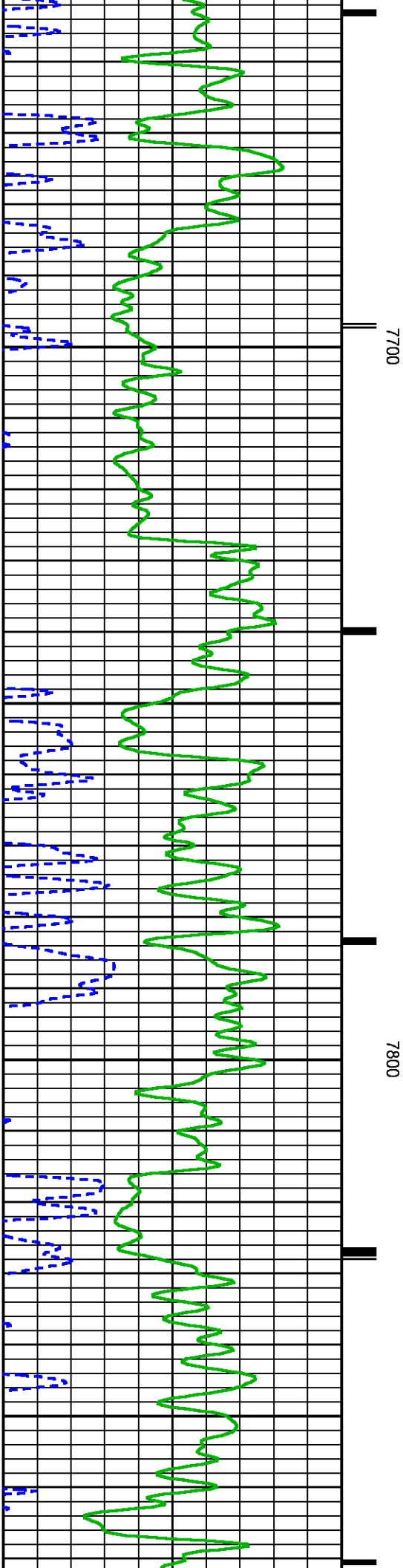
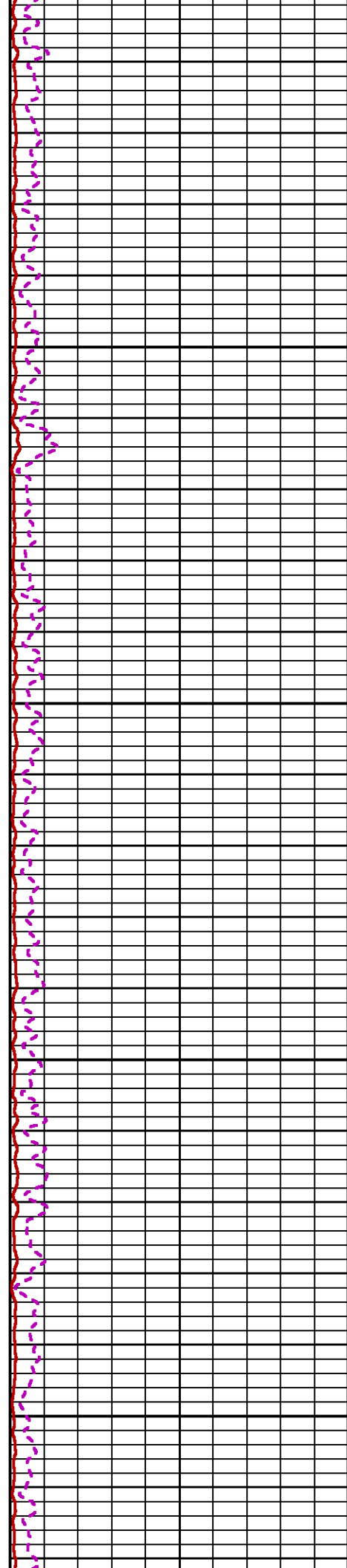
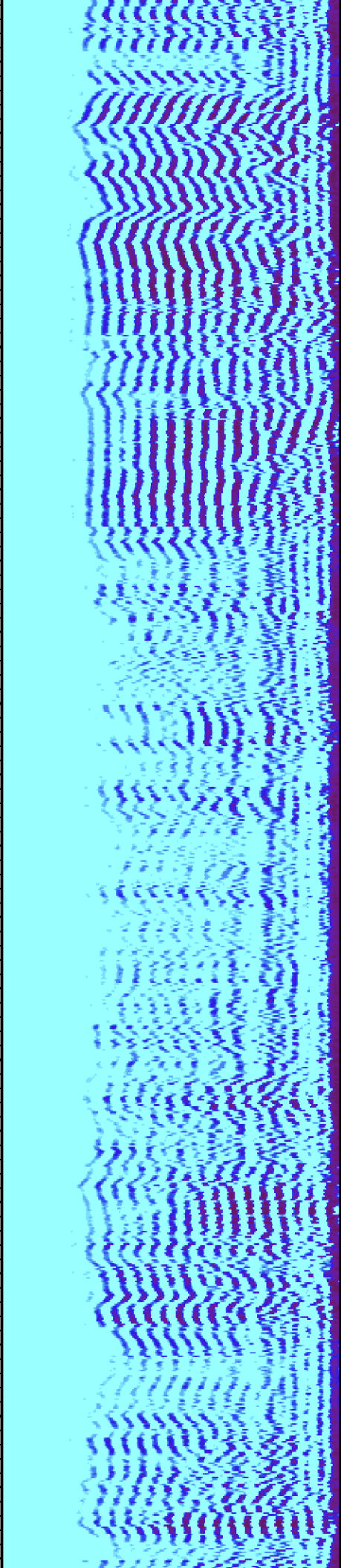


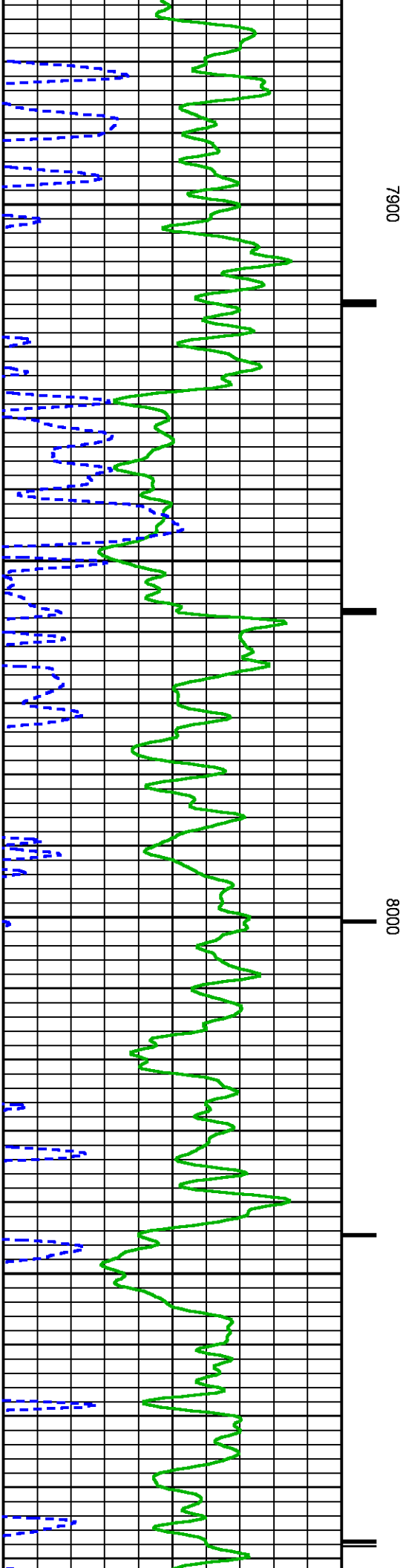
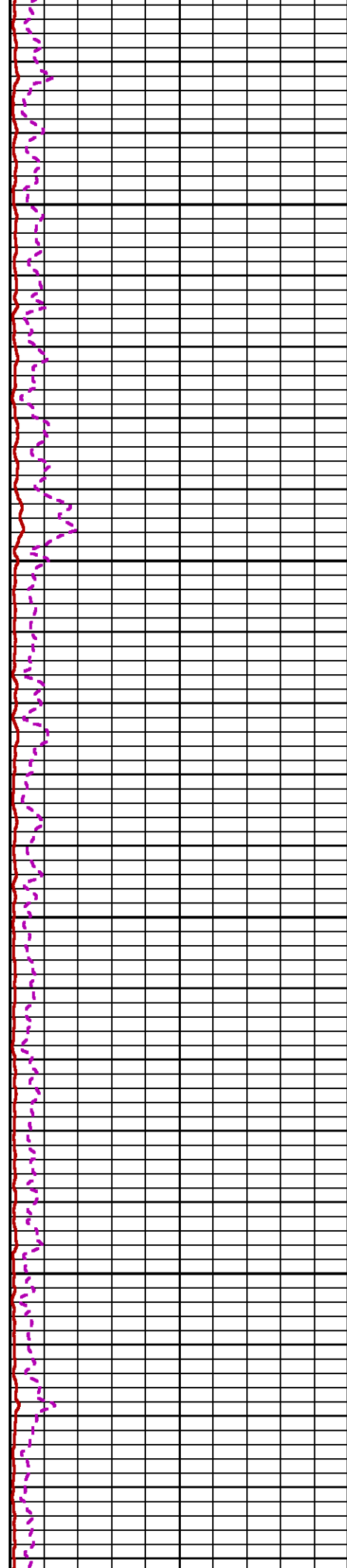
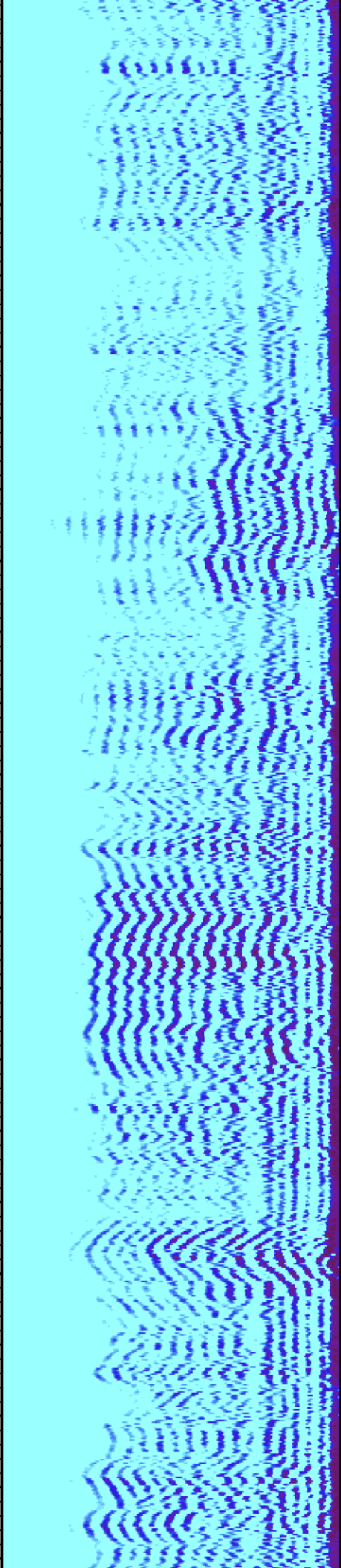


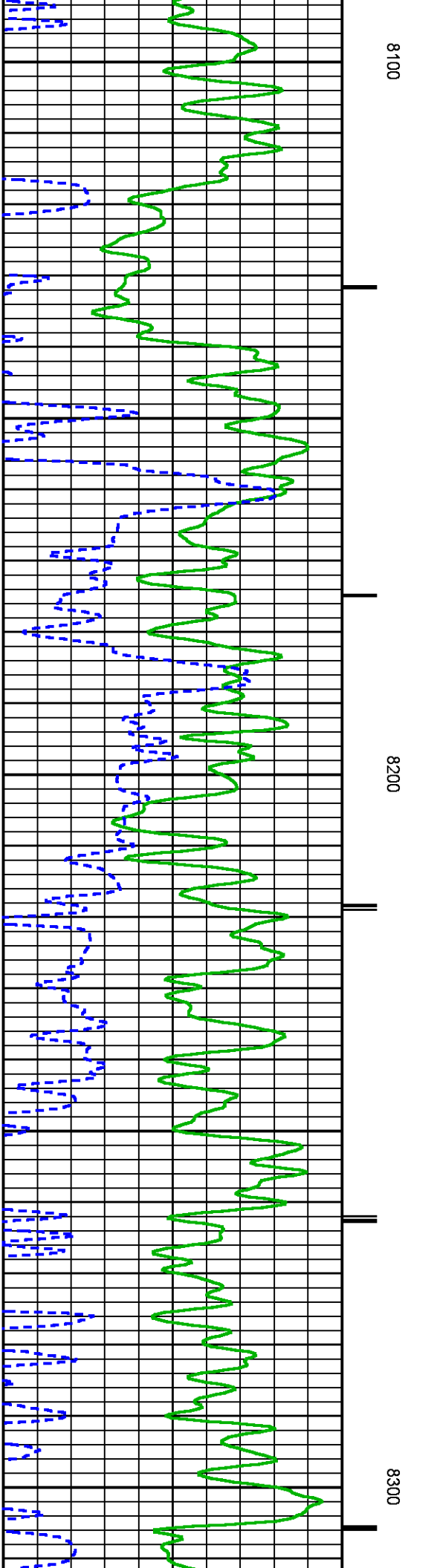
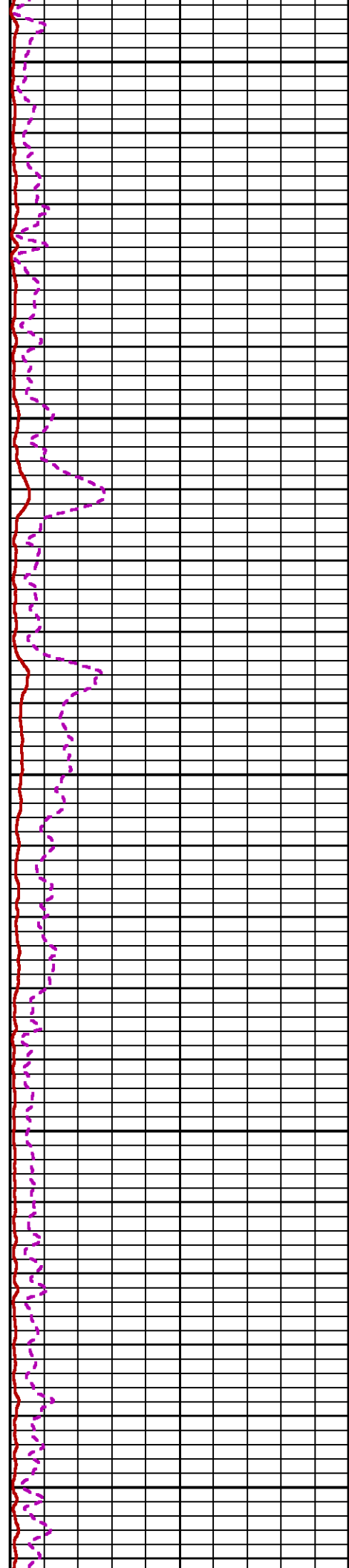
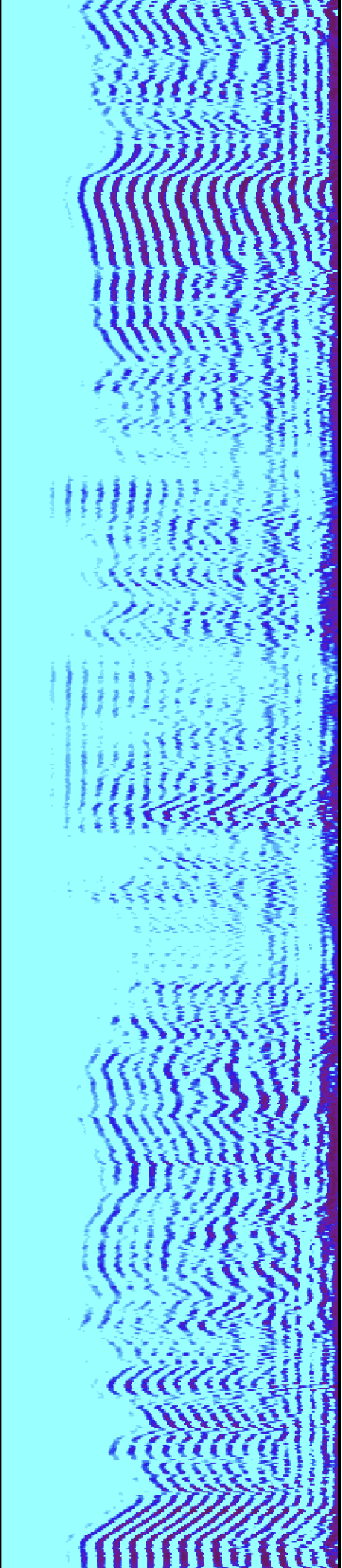




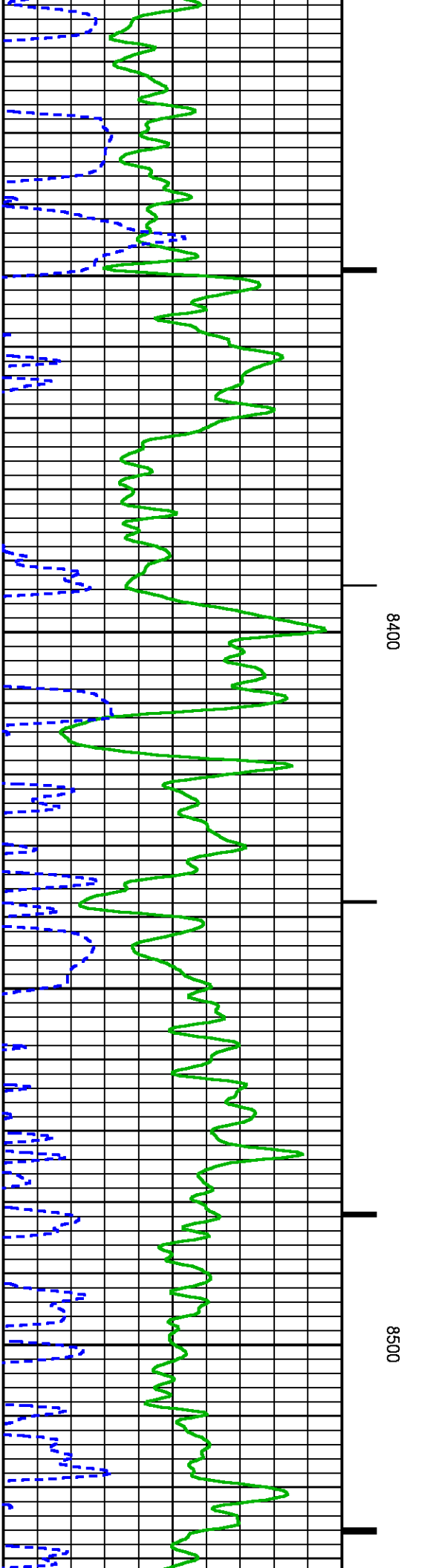
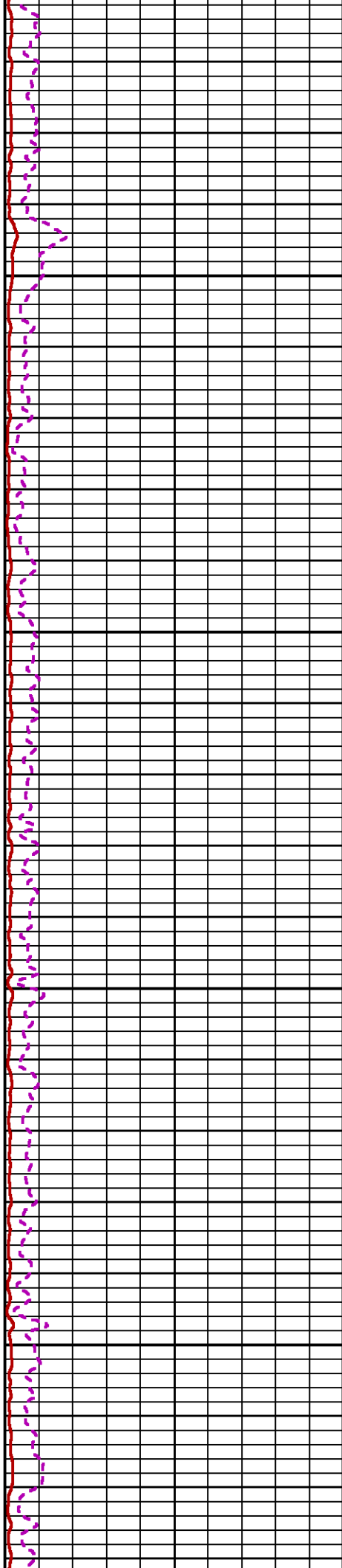
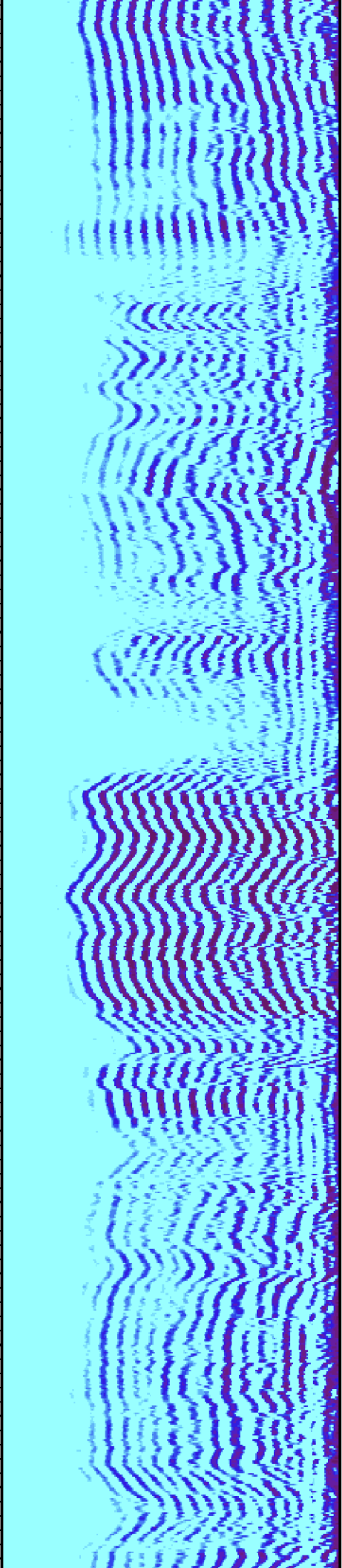


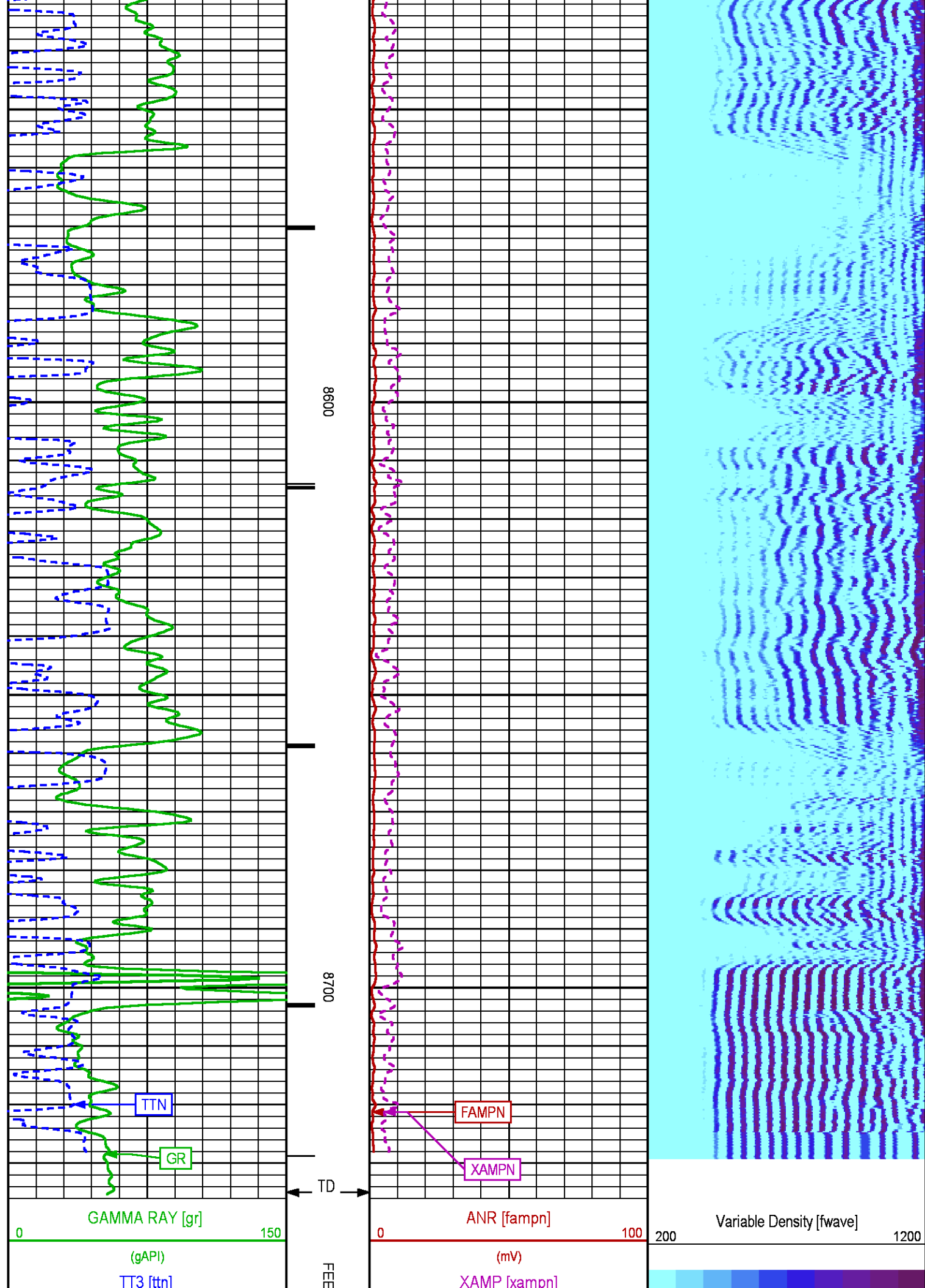


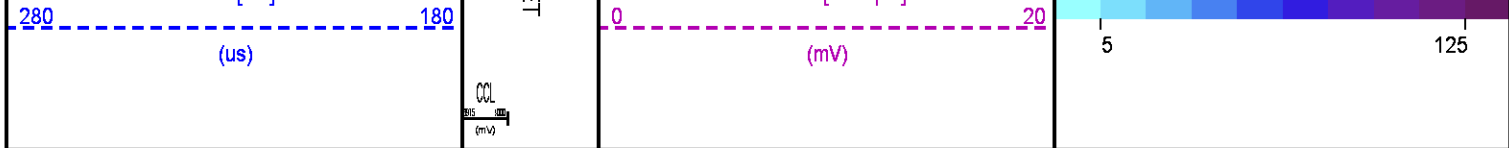












## SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1 Patches: 4

Plotted: Sun Jan 11 13:33:05 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH093869/n012eR01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 40.500 ft BOTTOM DEPTH: 8750.000 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*)	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 (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	81	mV	TOP	BOTTOM

FREE AMP REC 1	81	mV	"	"
FREE AMP REC 2	81	mV	"	"
FREE AMP REC 3	81	mV	"	"
FREE AMP REC 4	81	mV	"	"
FREE AMP REC 5	81	mV	"	"
FREE AMP REC 6	81	mV	"	"
FREE AMP REC 7	81	mV	"	"
FREE AMP REC 8	81	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	"

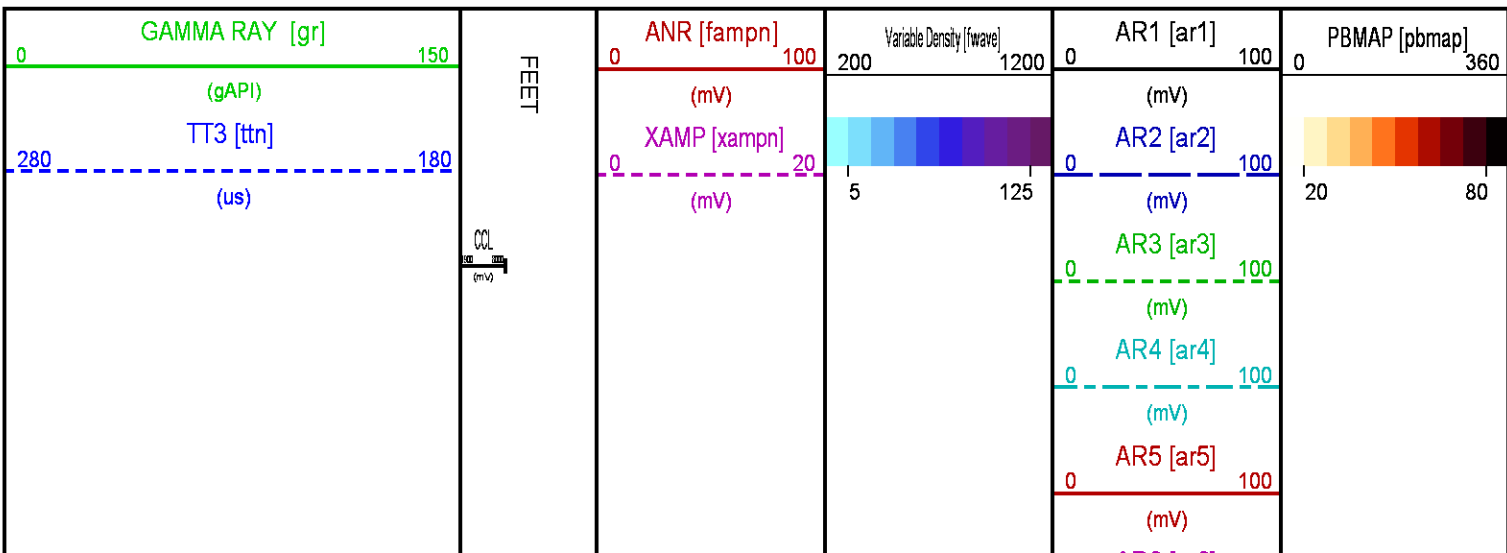
## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jan 10 20:10:00 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 10 20:10:00 2015	FAR WAVE FORM
F1:GR	Jan 10 20:10:00 2015	GAMMA RAY
F1:PBMAP	Jan 10 20:10:00 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jan 10 20:10:00 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 10 20:10:00 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

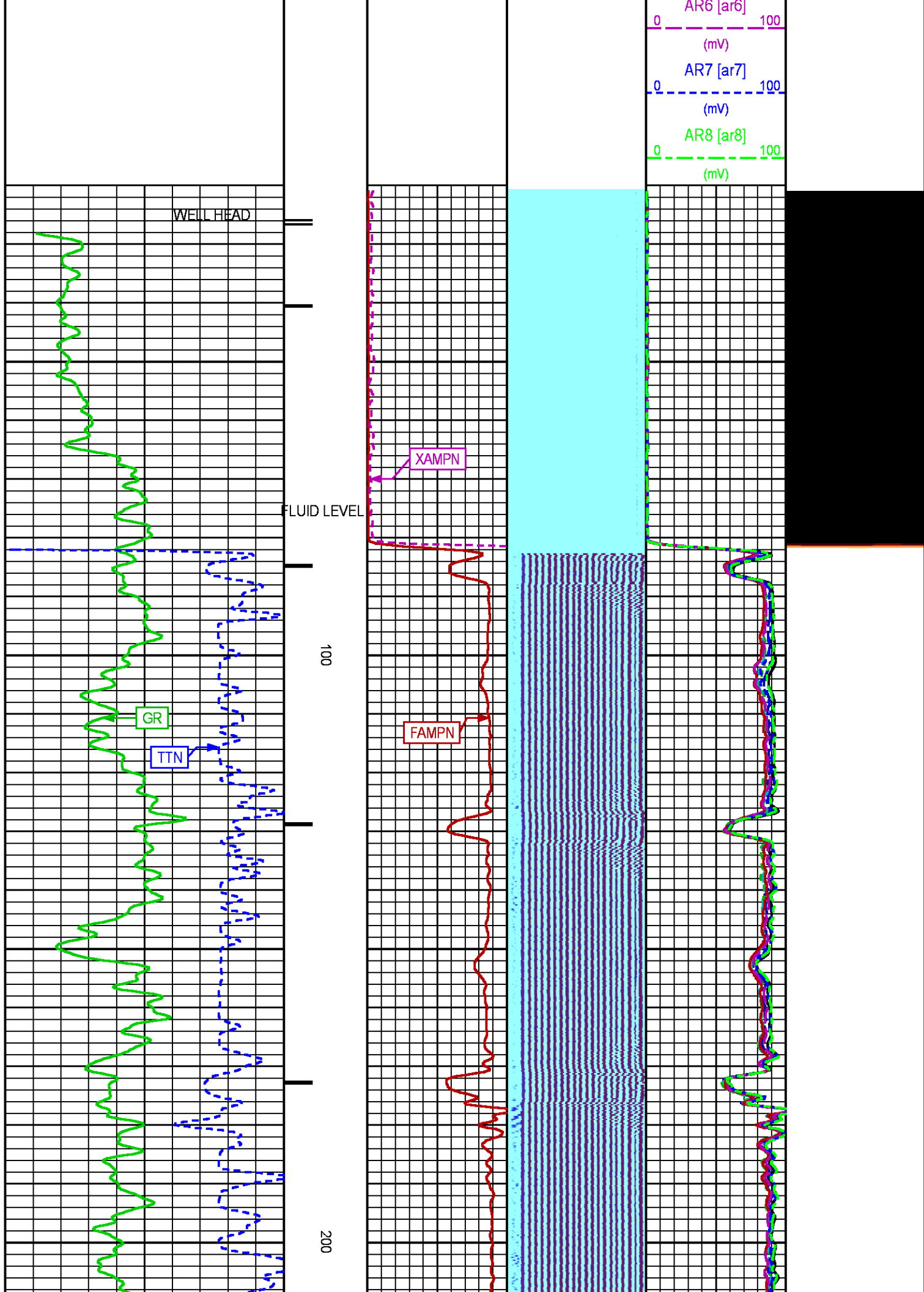
## CURVE MEASURE POINT OFFSET

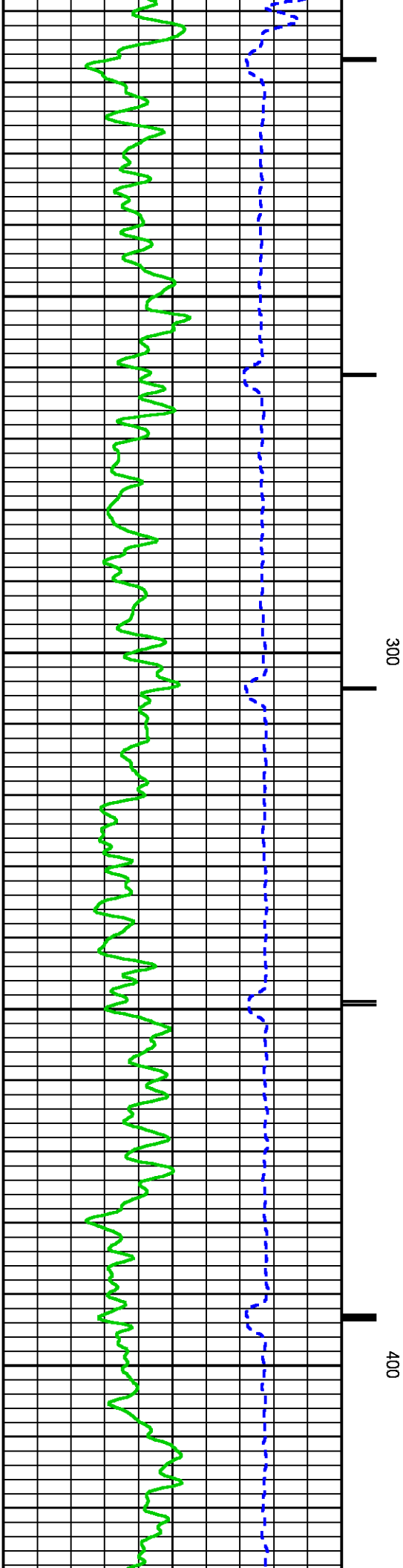
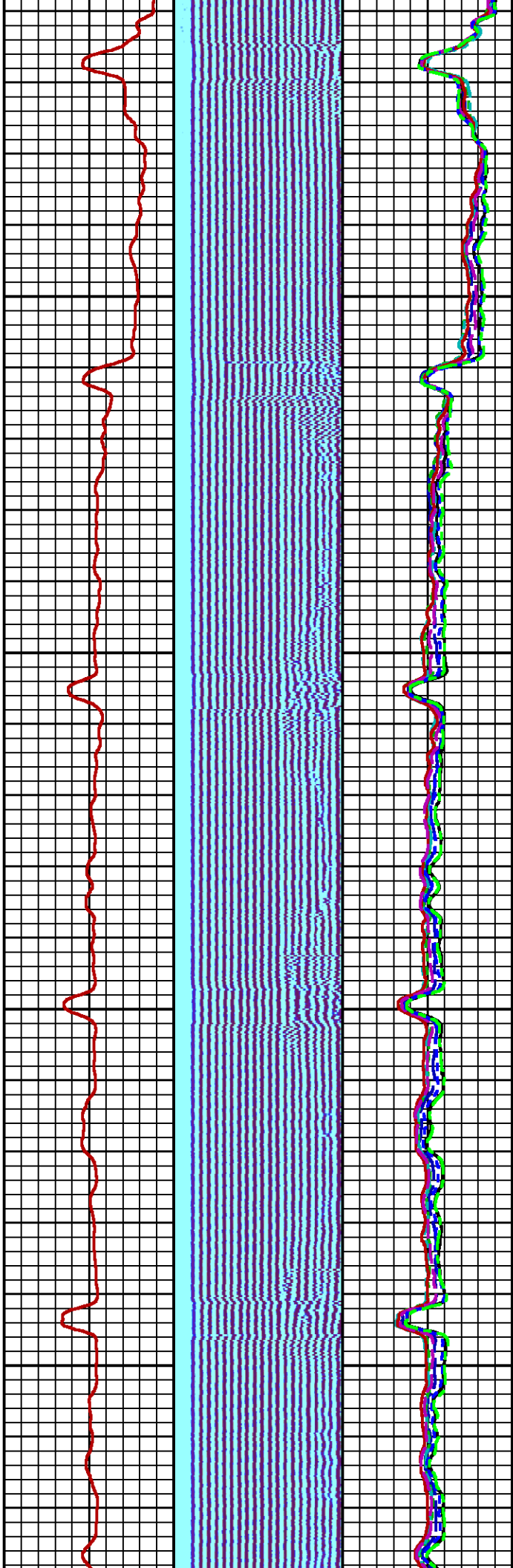
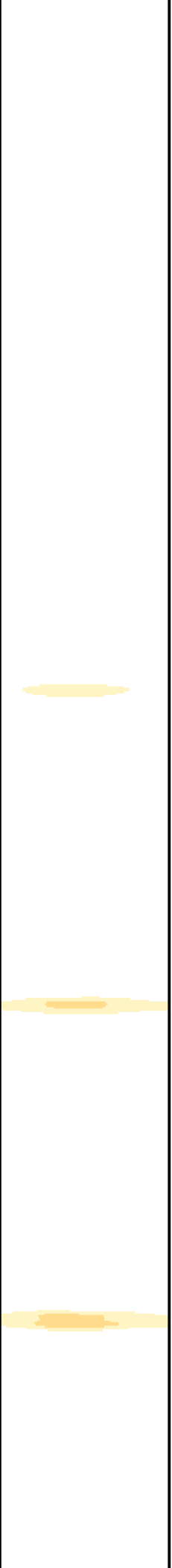
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

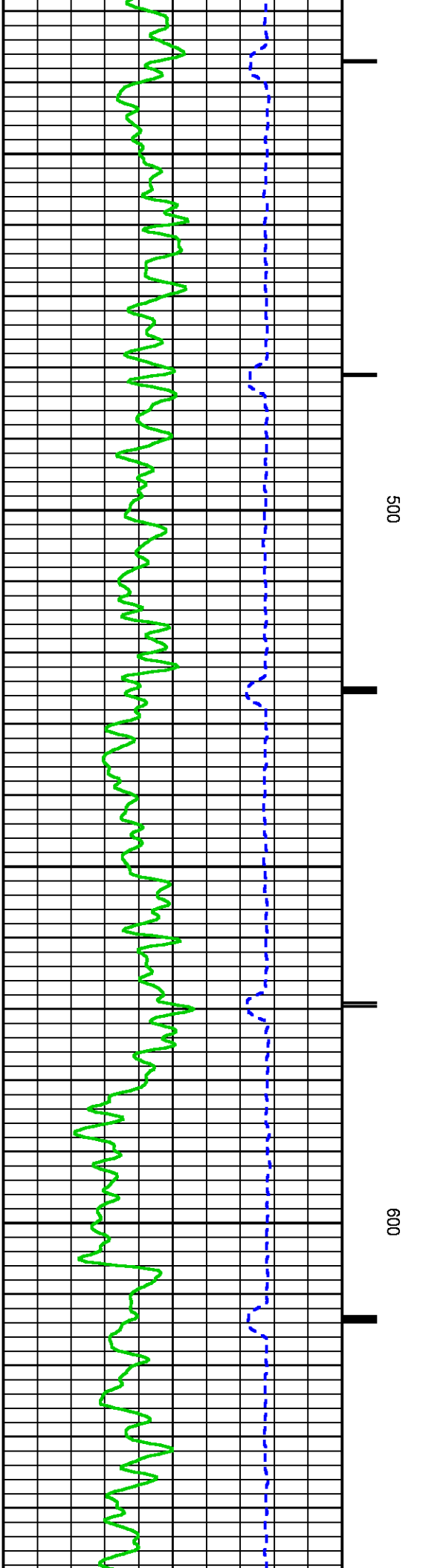
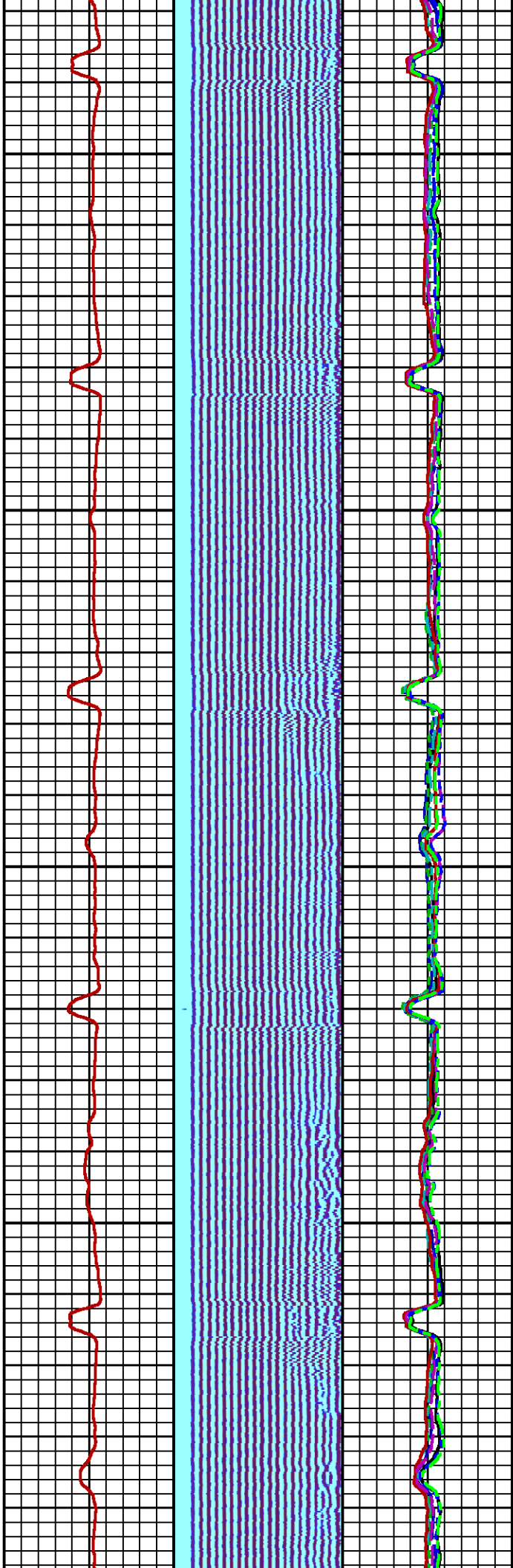
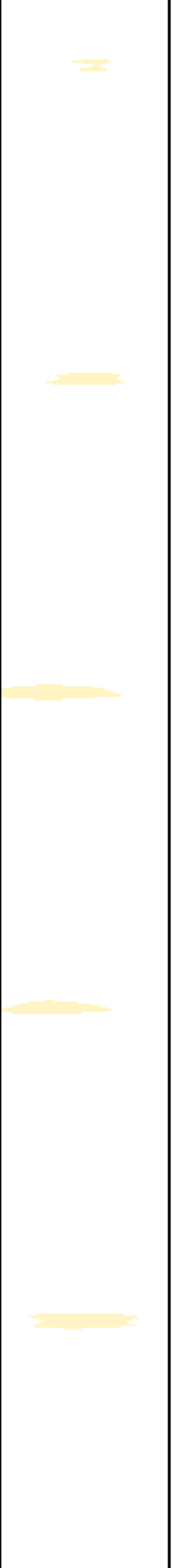
**Presentation** : HL6670:WPX\_CBL\_SECONDARY\_PRESENTATION.fvpdf [5"/100' Scale]  
**Plot Interval** : 20.75 - 8741.75 Feet  
  
**Data File 1** : F1 : HL6670:/dat1a/CH093869/RAL\_MAIN.xtf  
**Created On** : Jan 10 20:10:00 2015  
**Company** : WPX ENERGY ROCKY MTN LLC  
**Well** : FEDERAL PA 31-27  
**Field** : PARAHUTE  
**File Interval** : 19.75 - 8750 Feet  
**OCT** : n012e

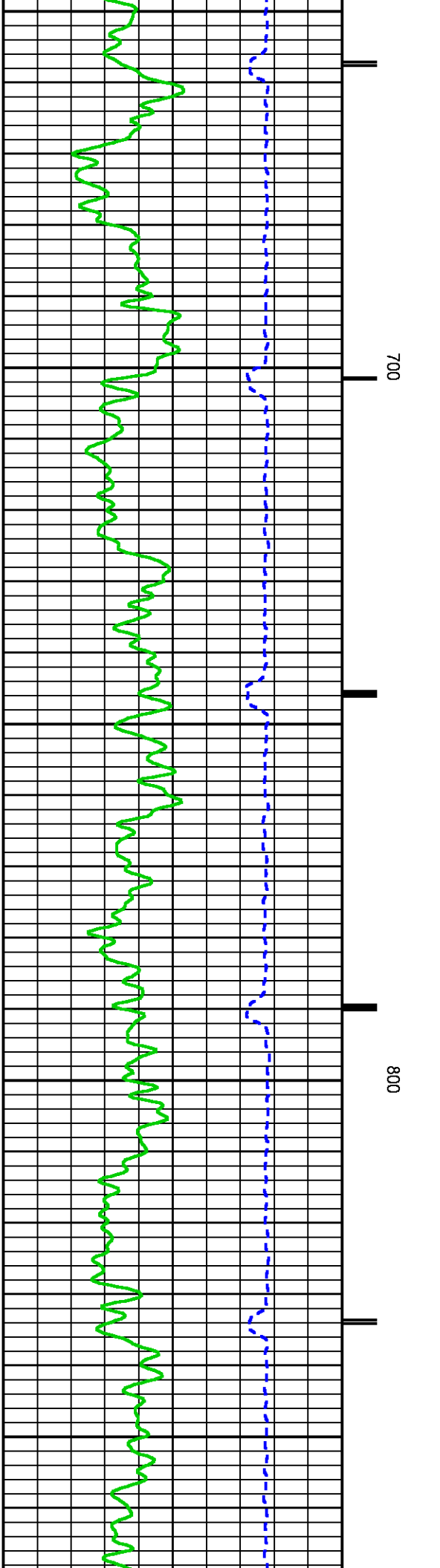
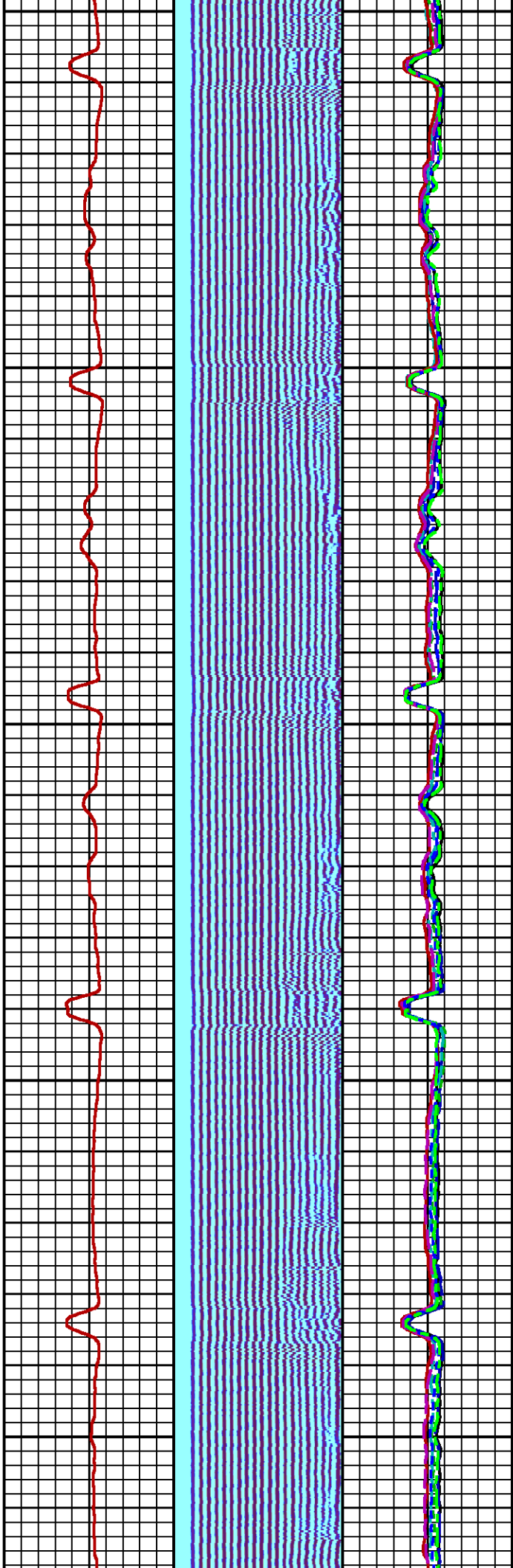
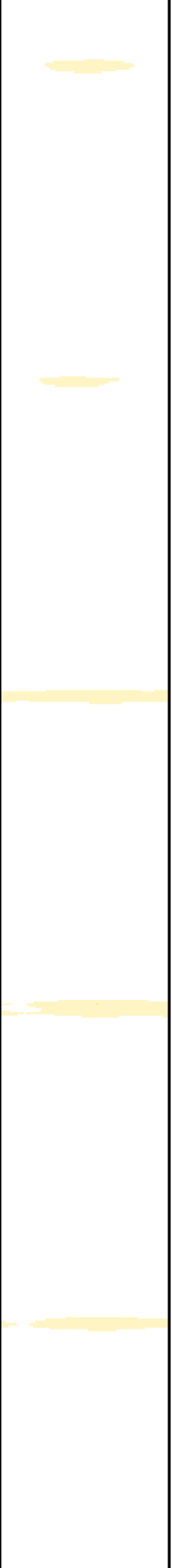




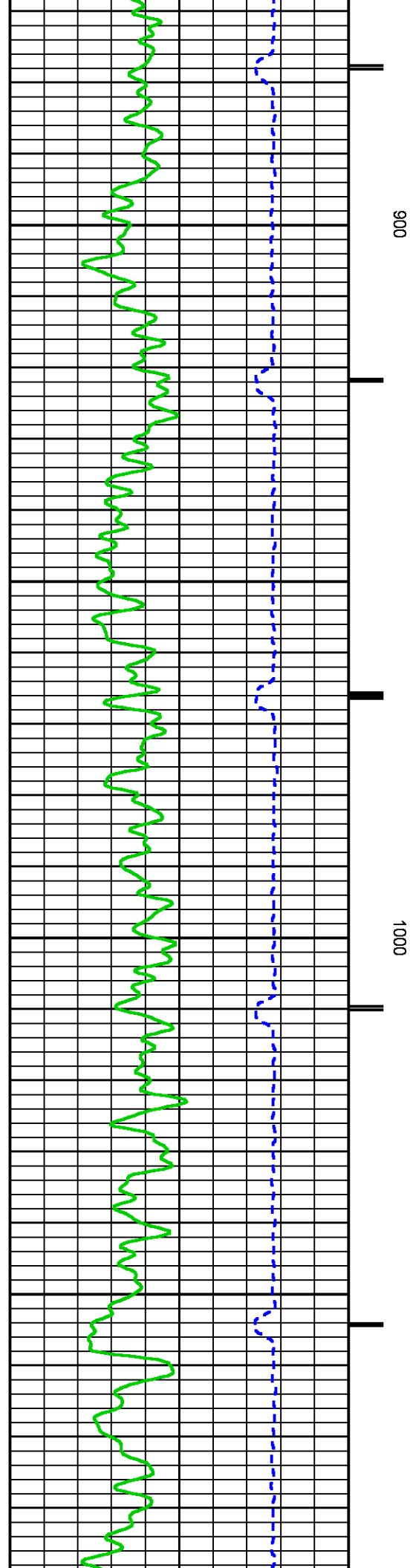
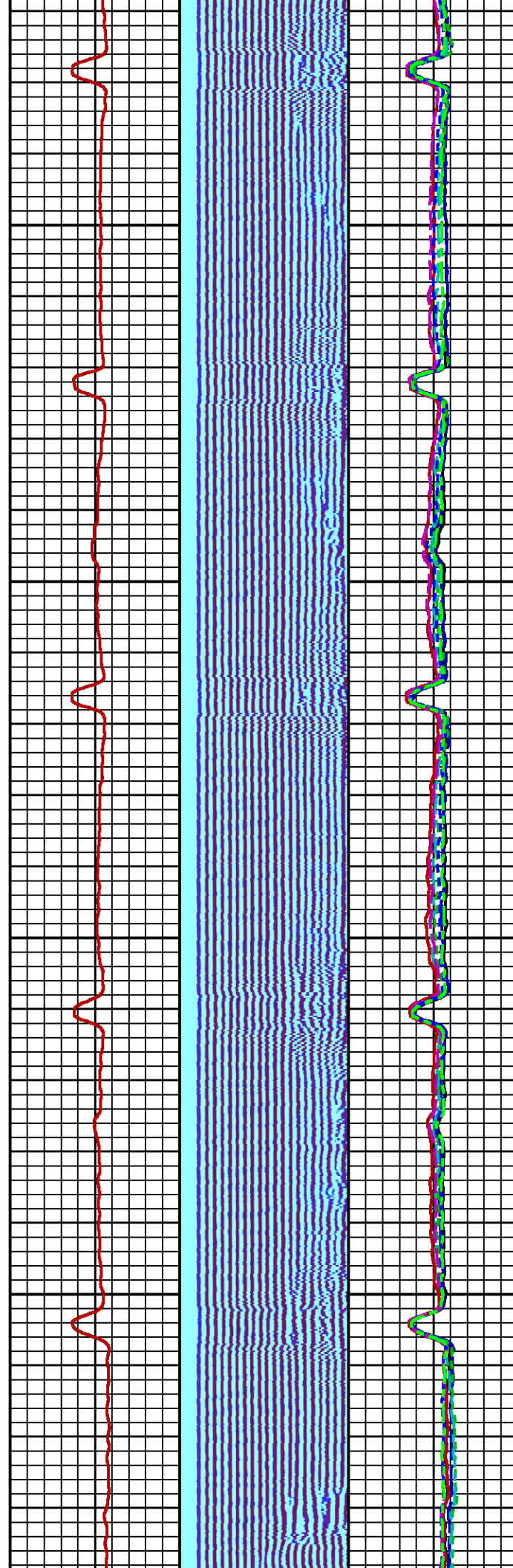
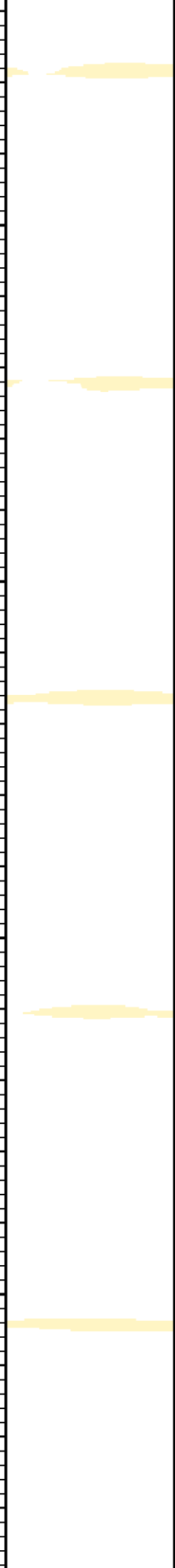


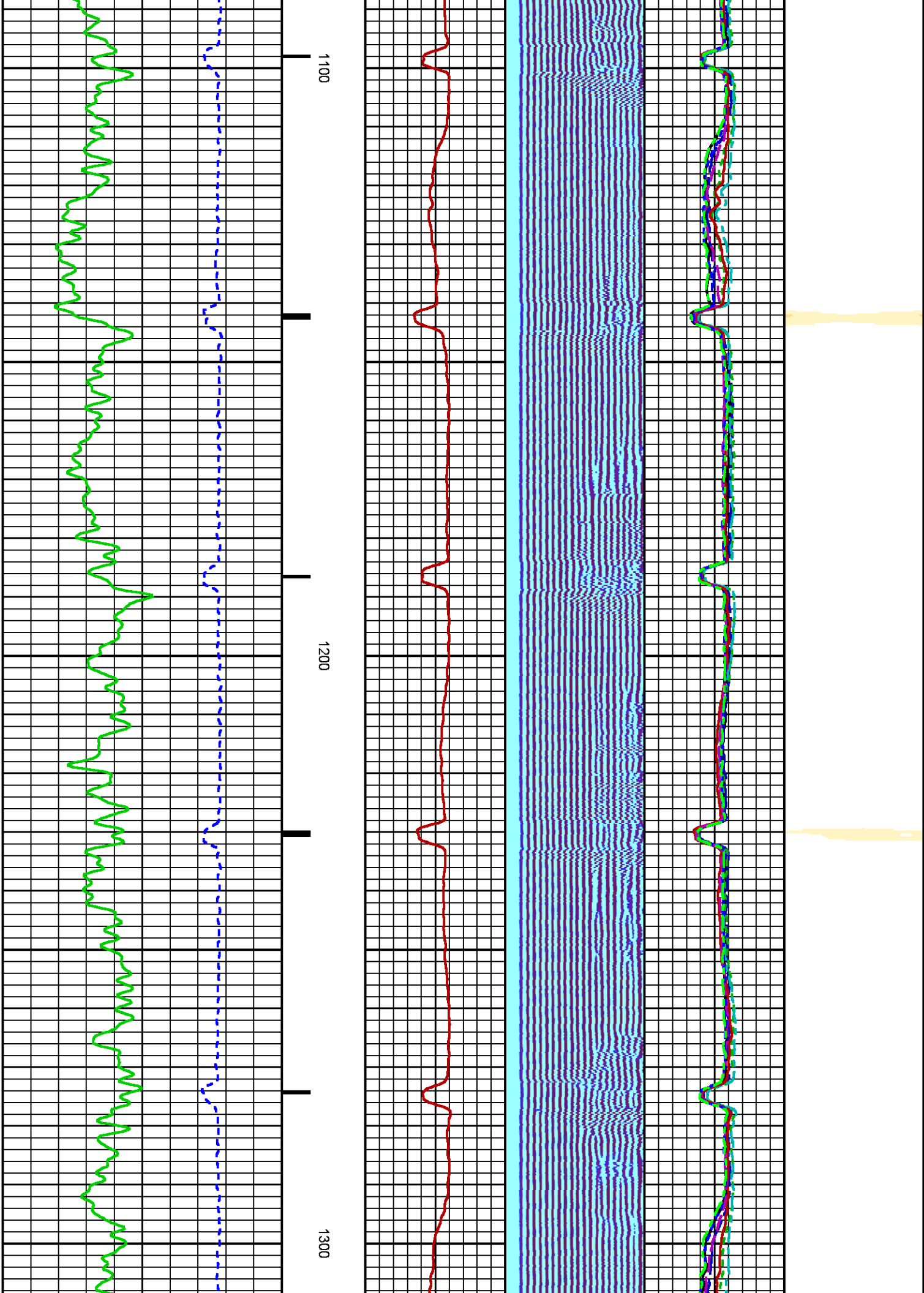


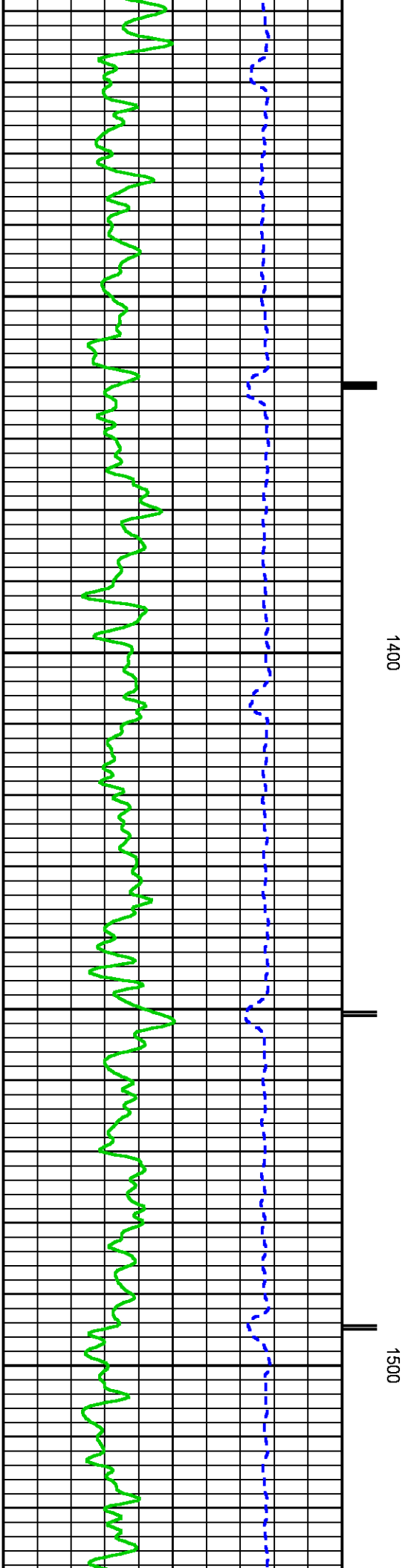
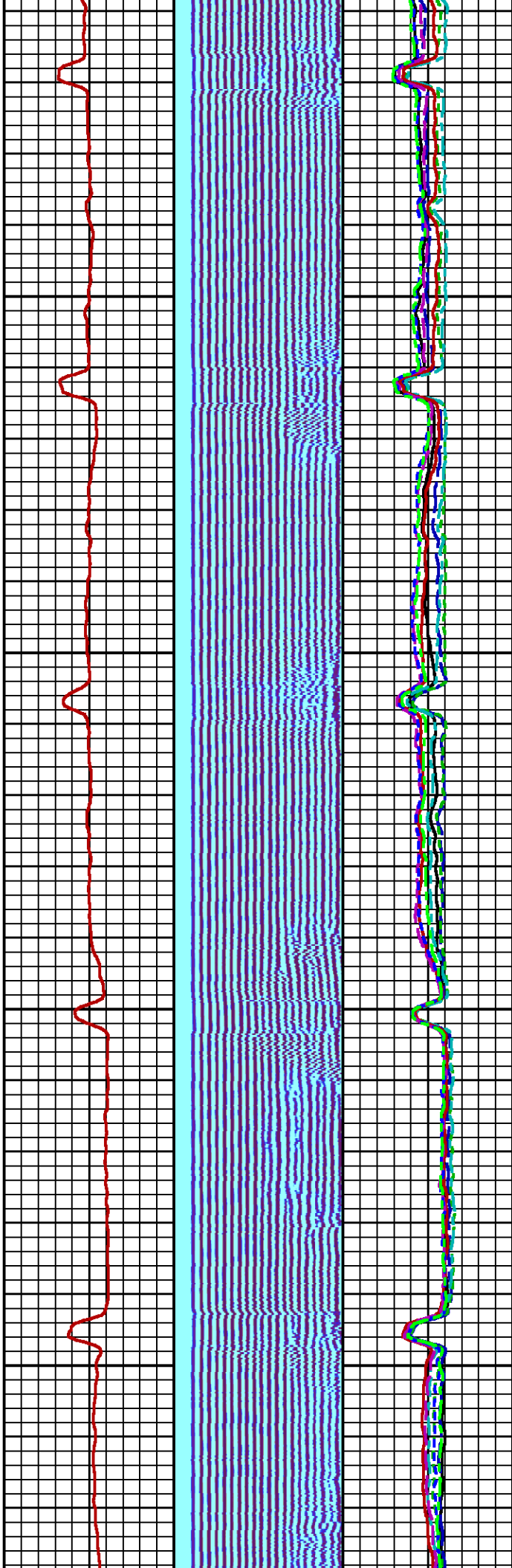
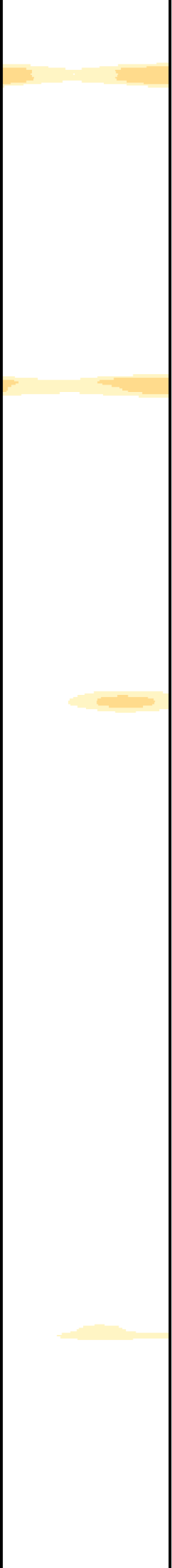


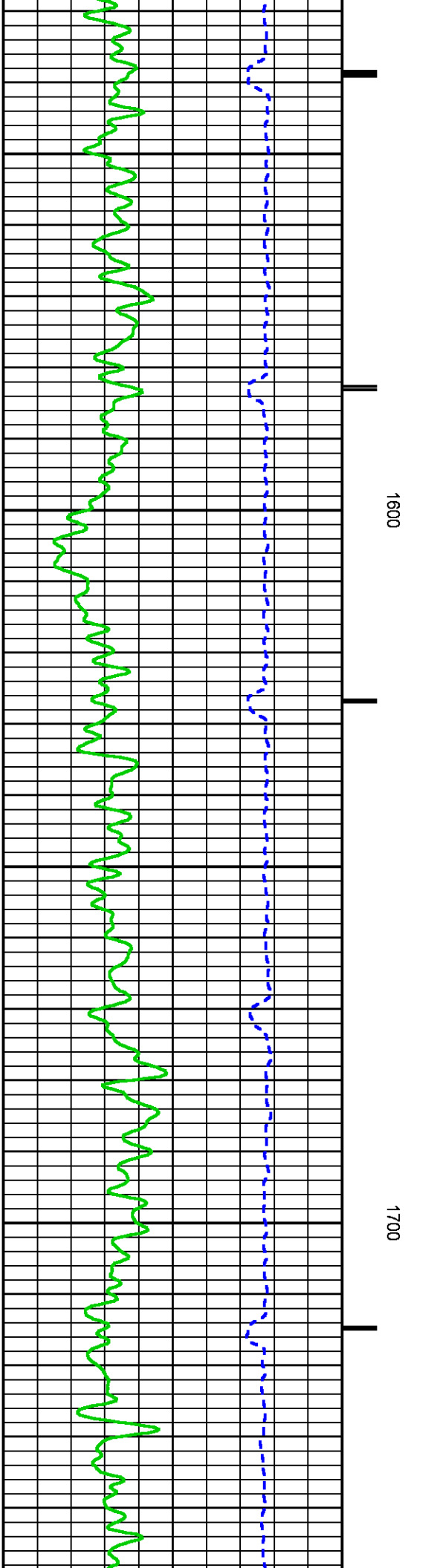
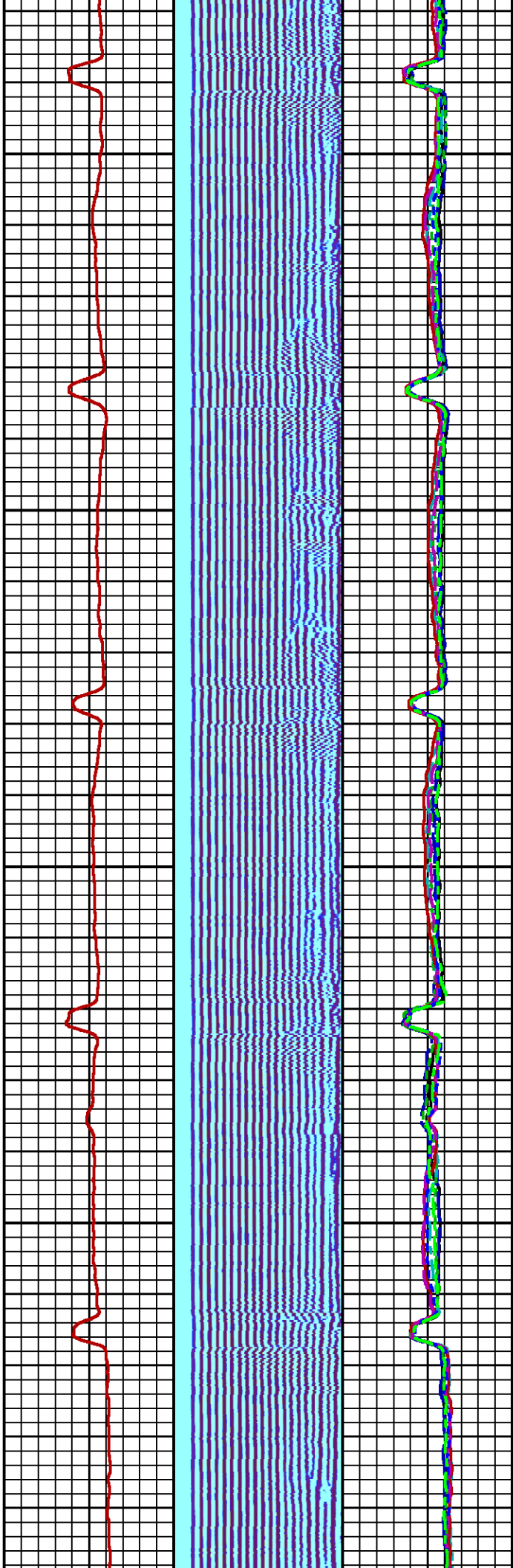
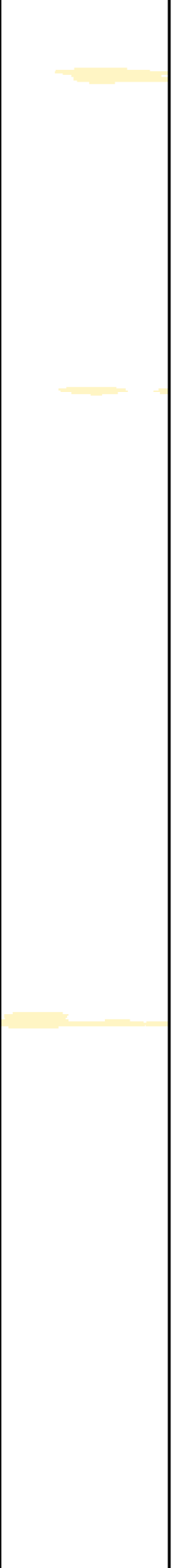




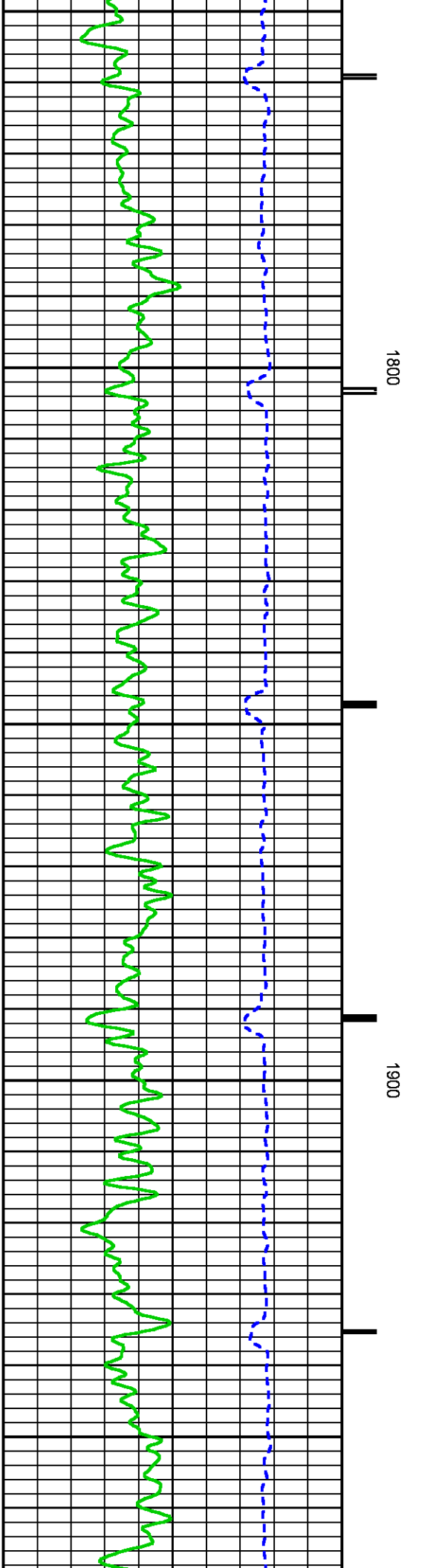
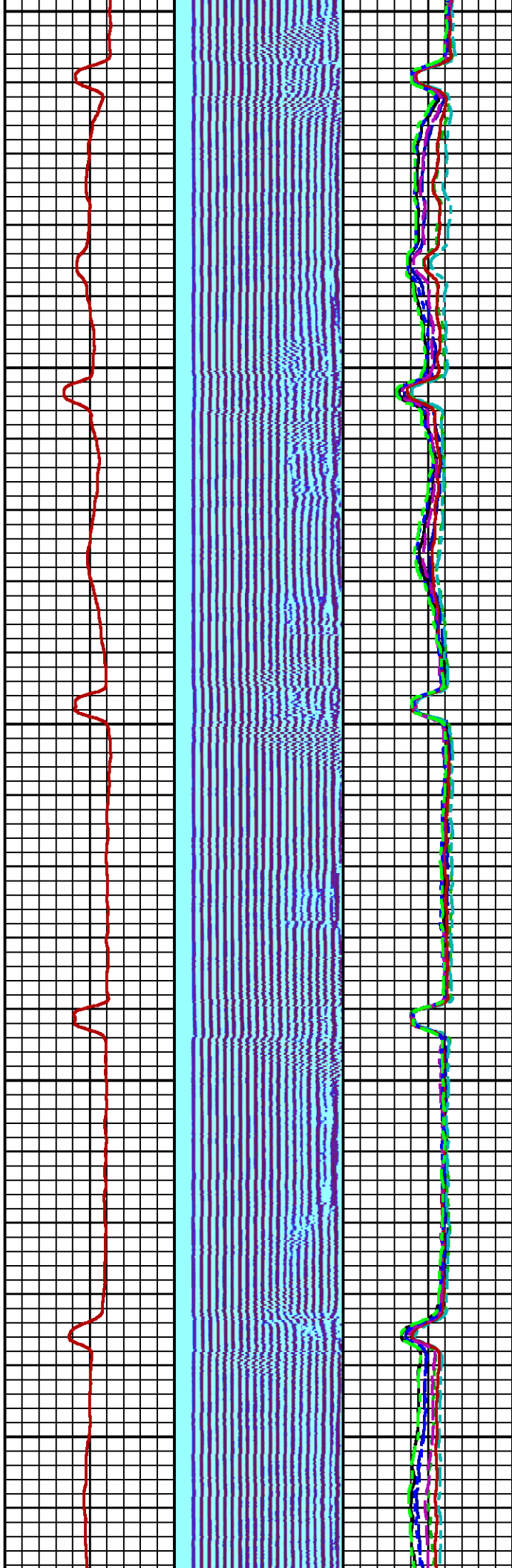
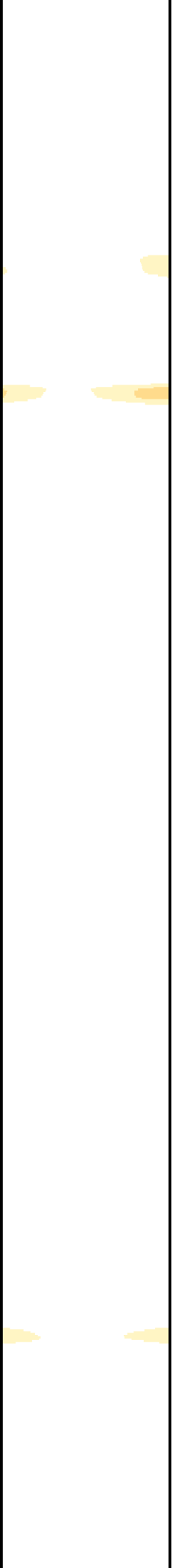


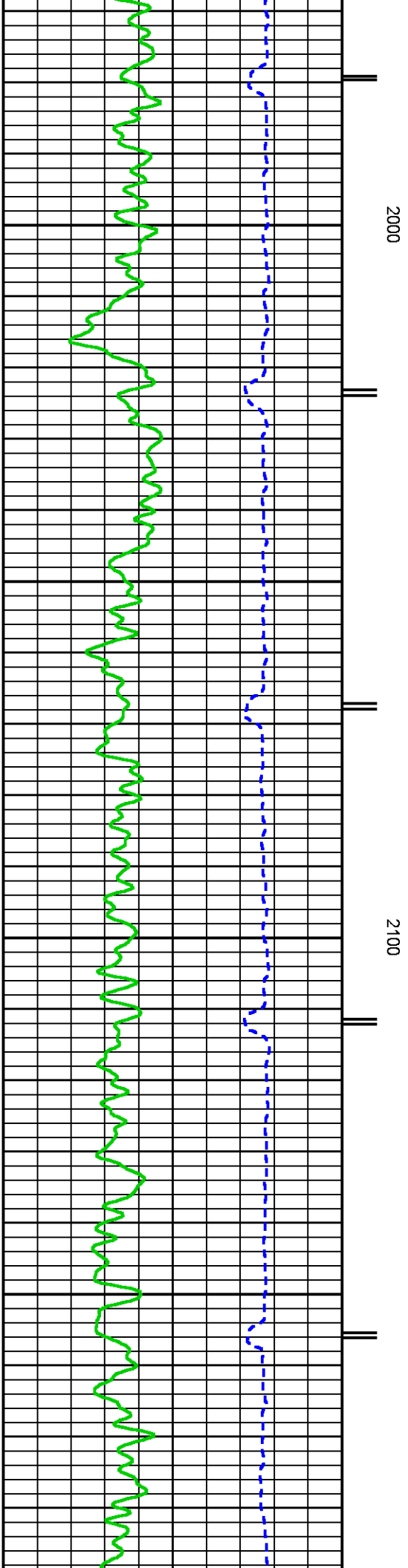
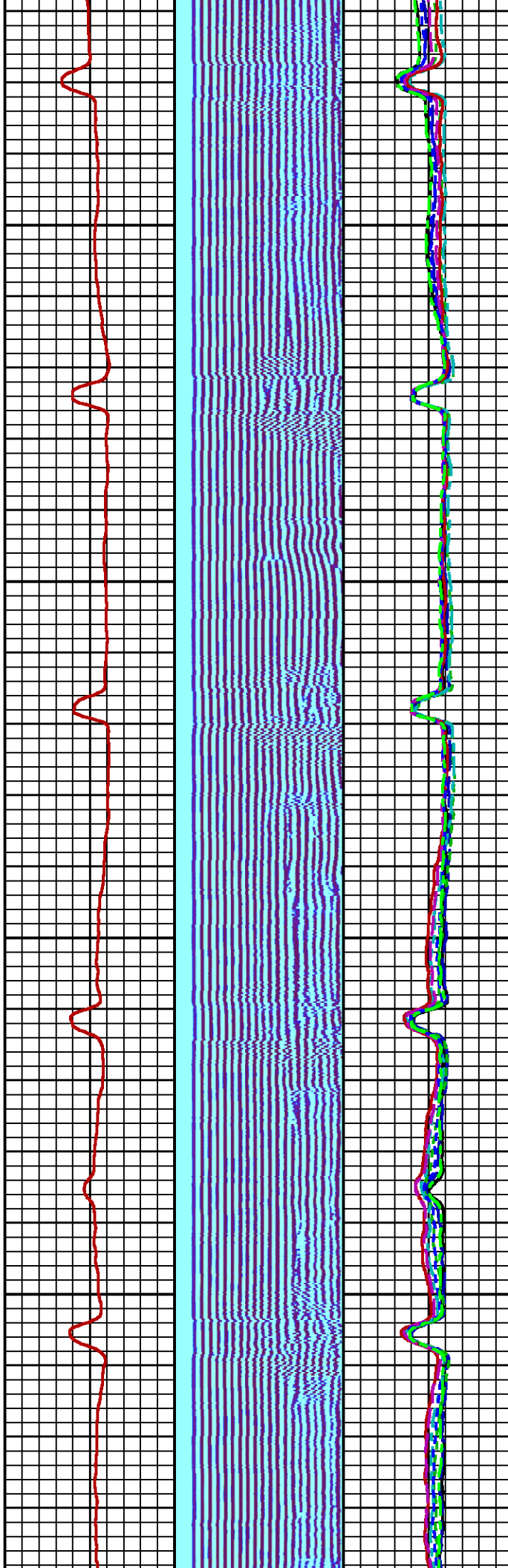
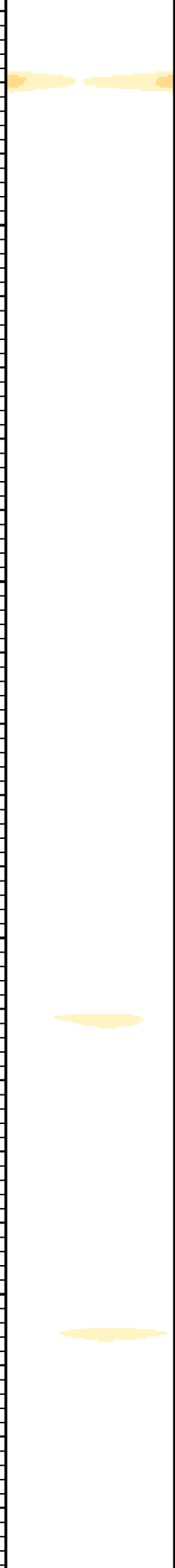


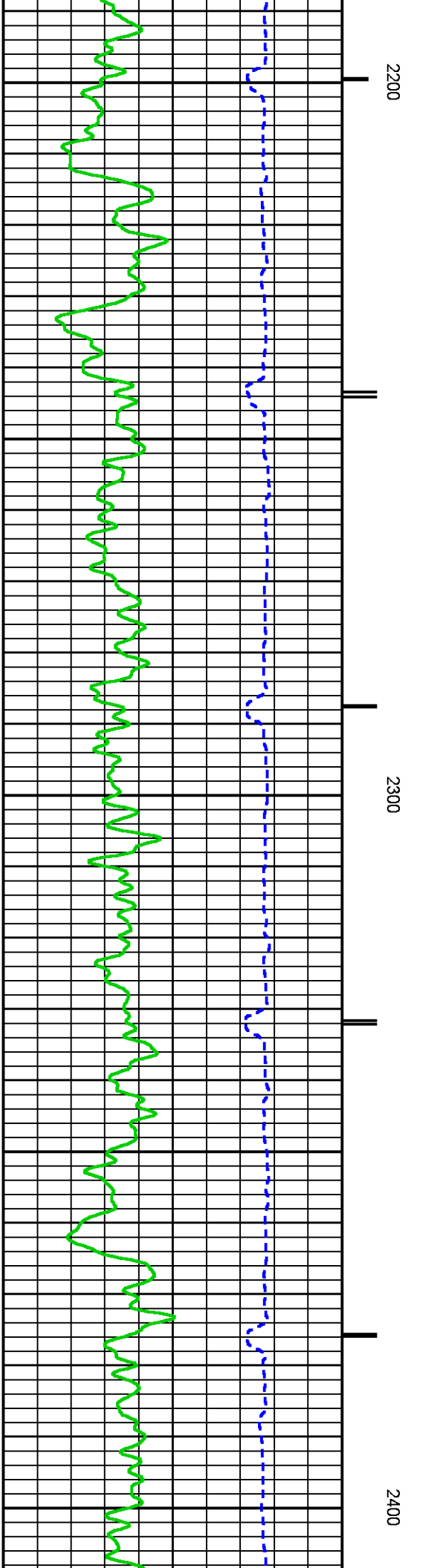
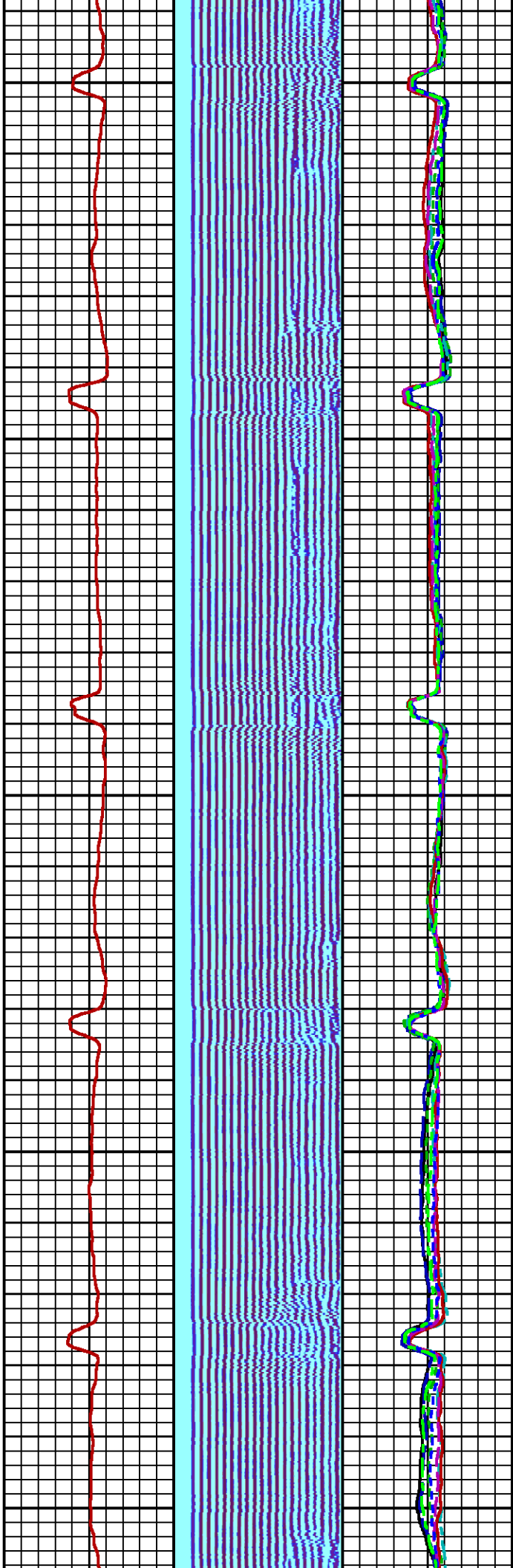
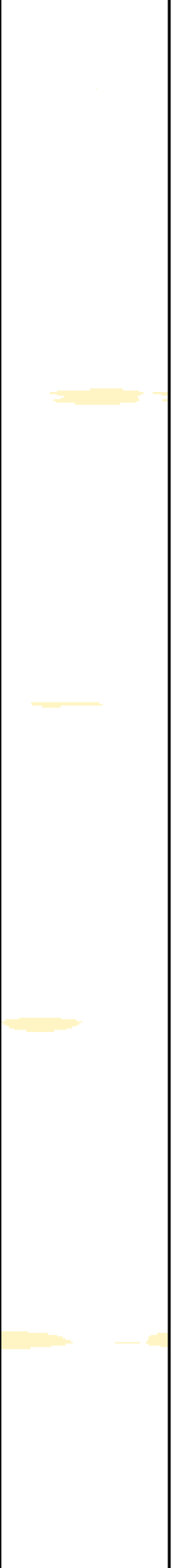


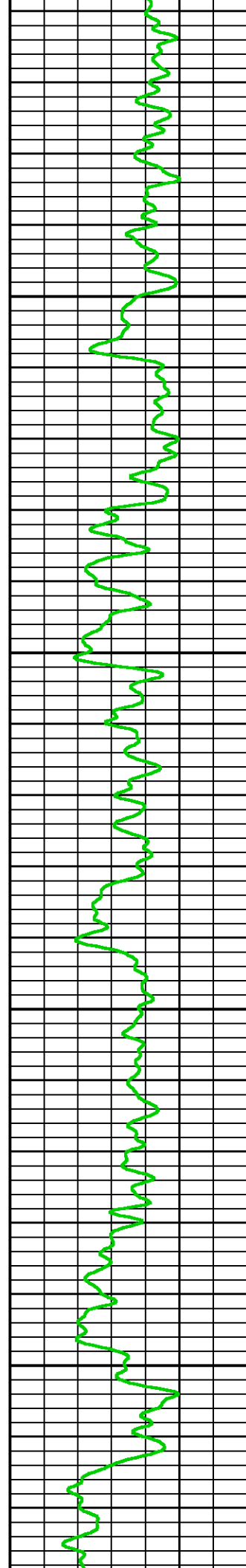
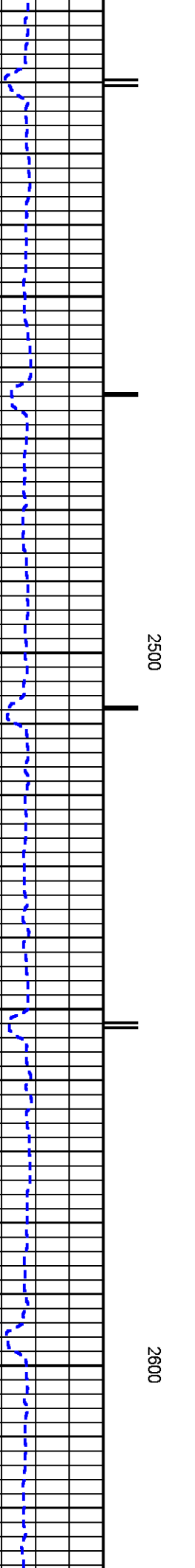
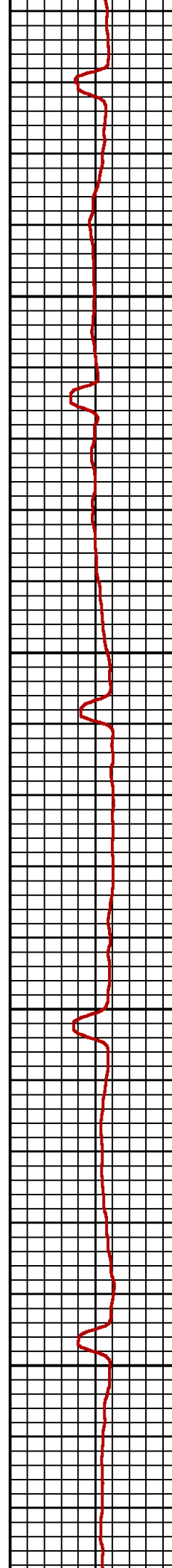
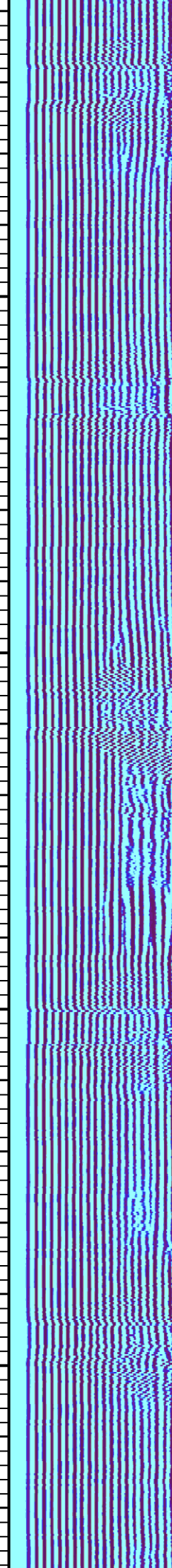
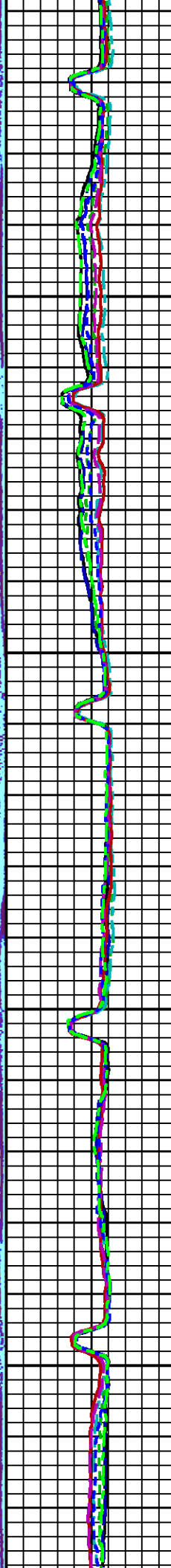
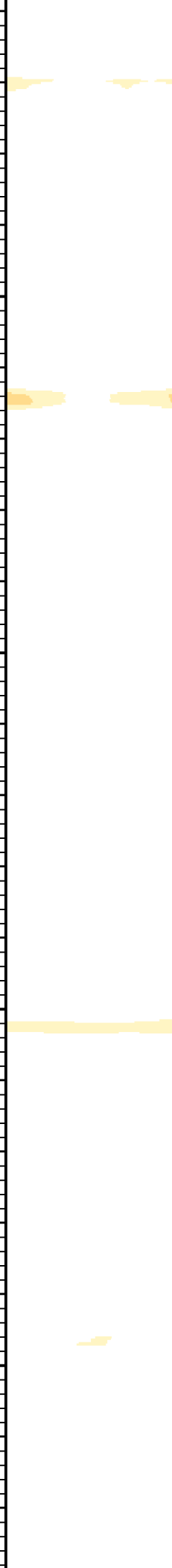




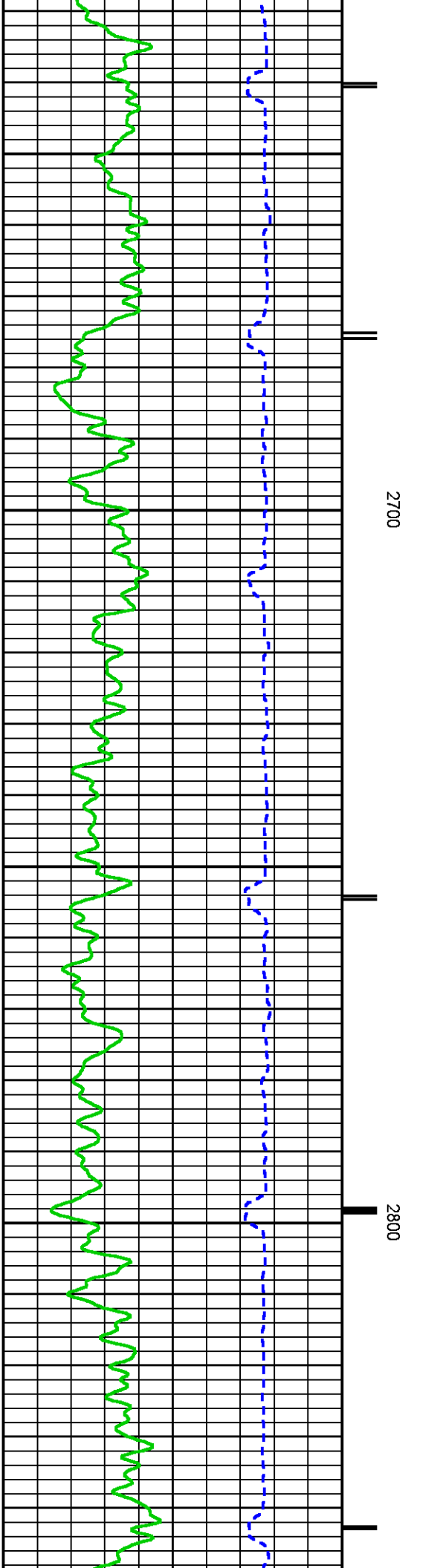
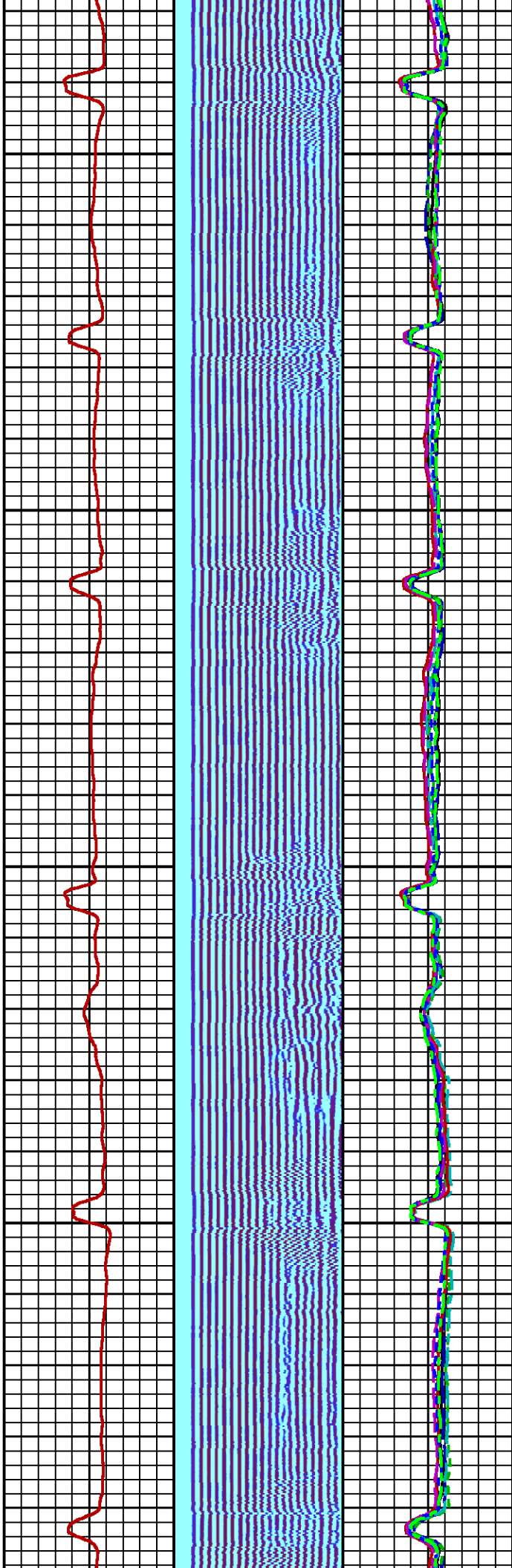
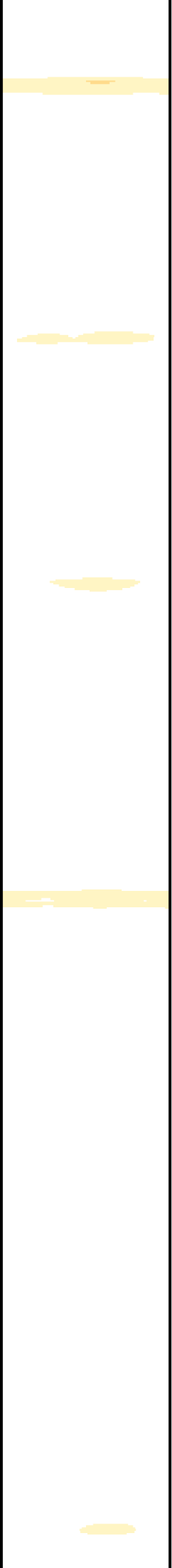


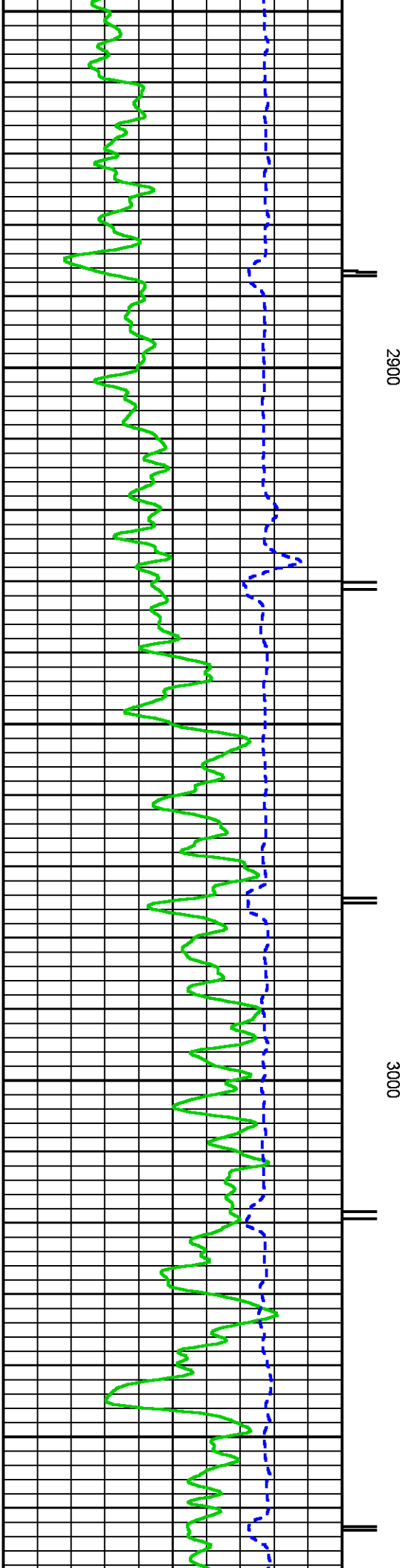
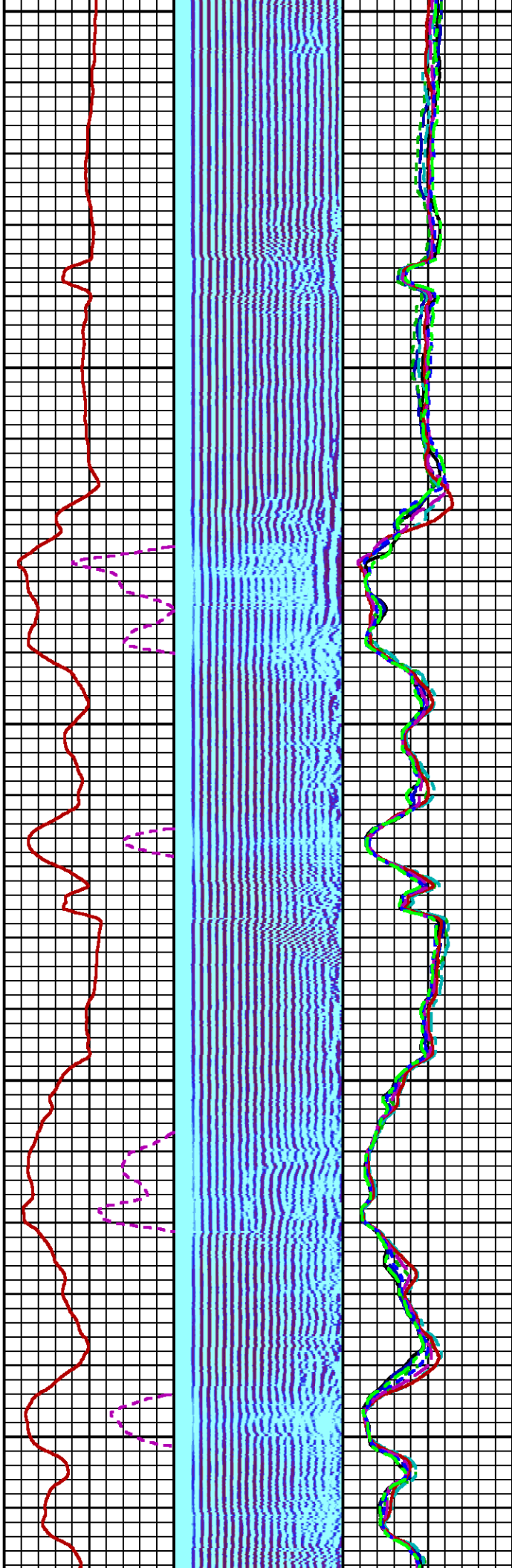
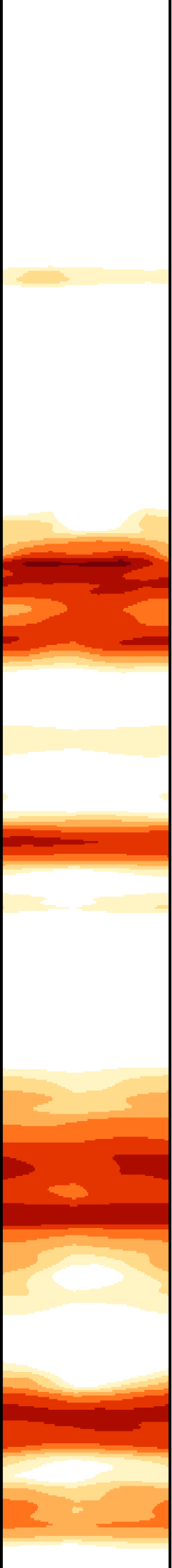


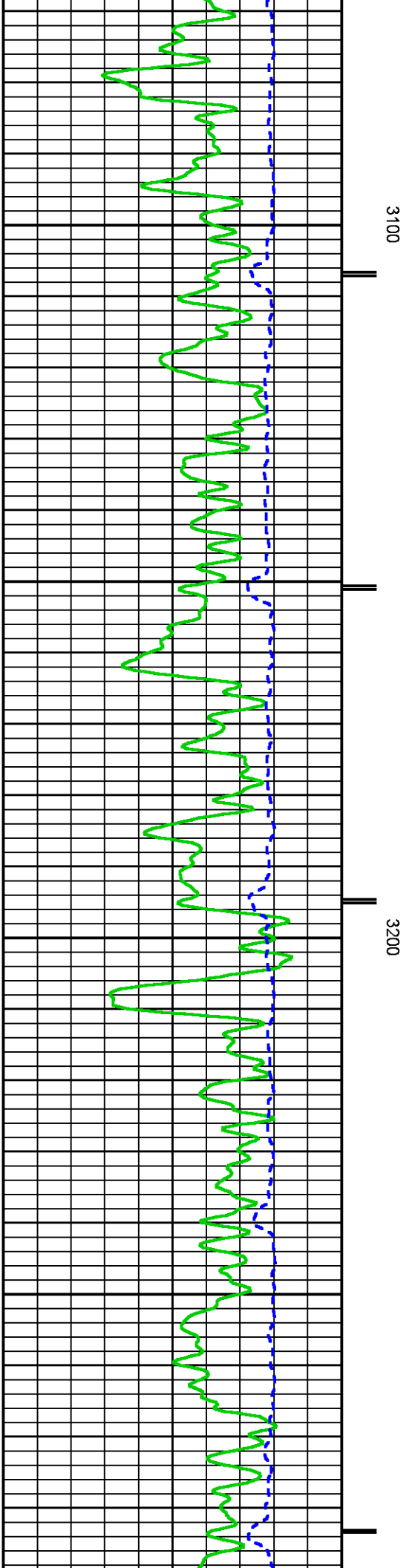
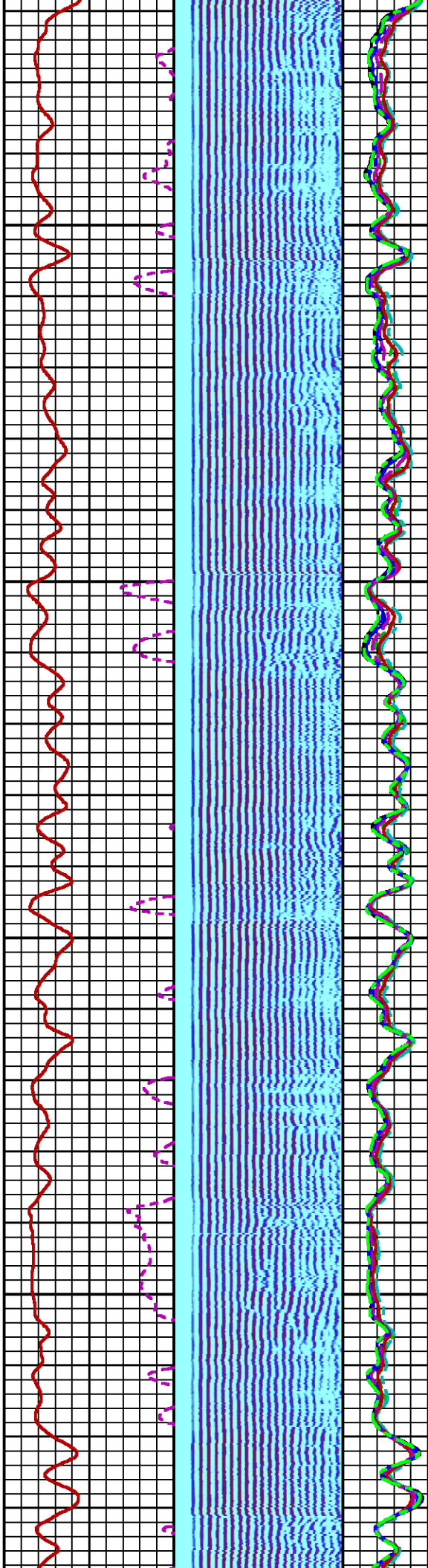
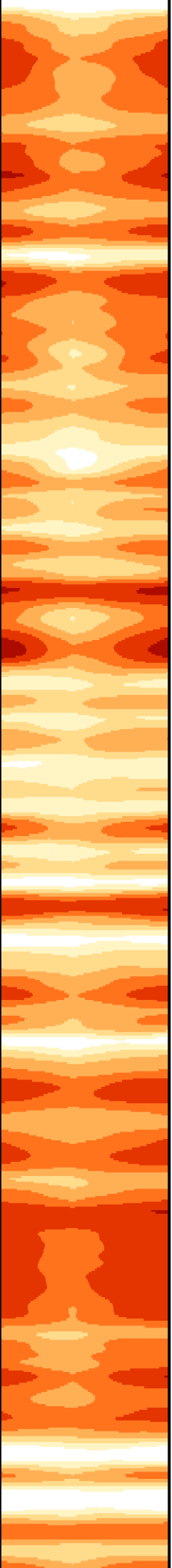


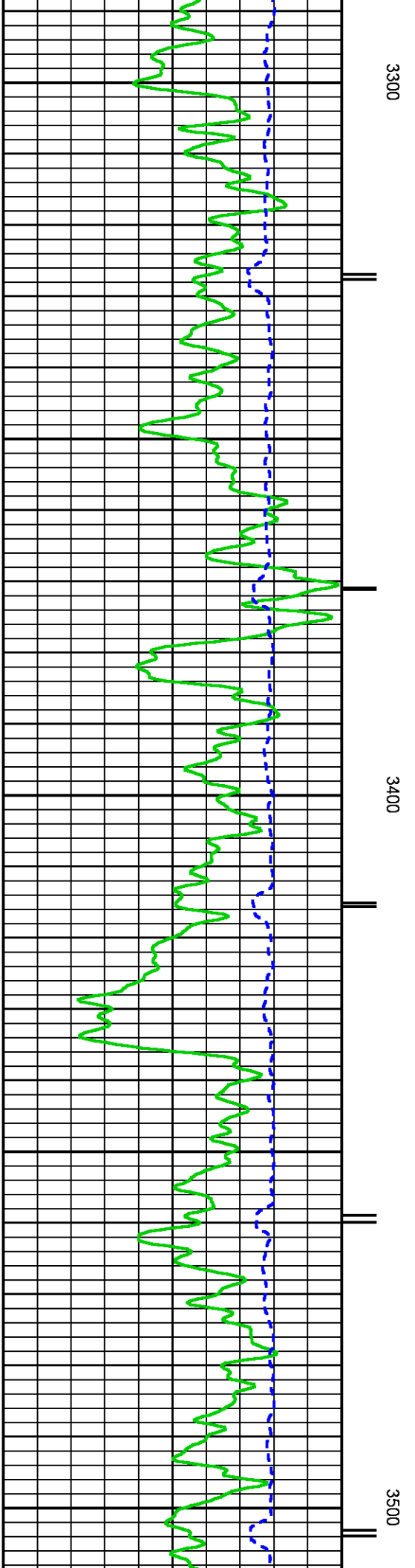
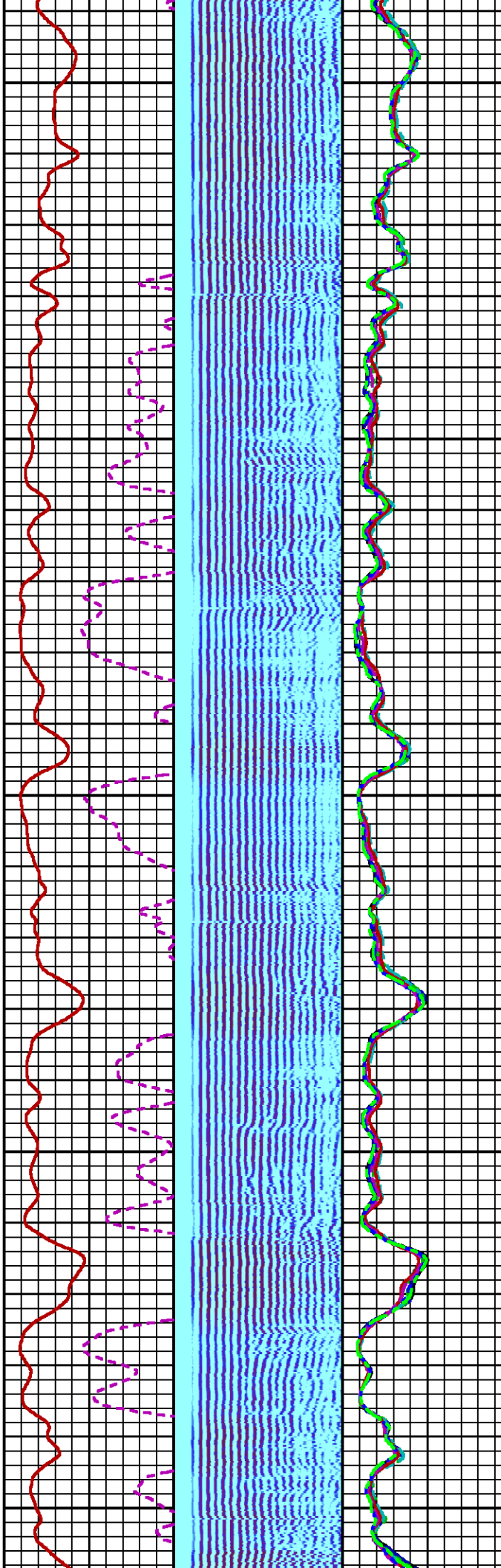
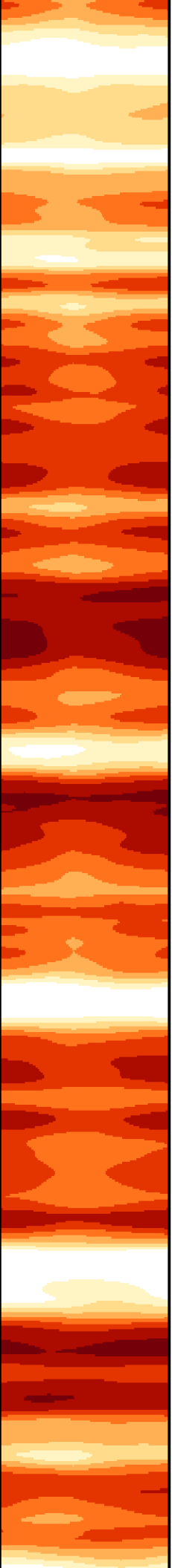




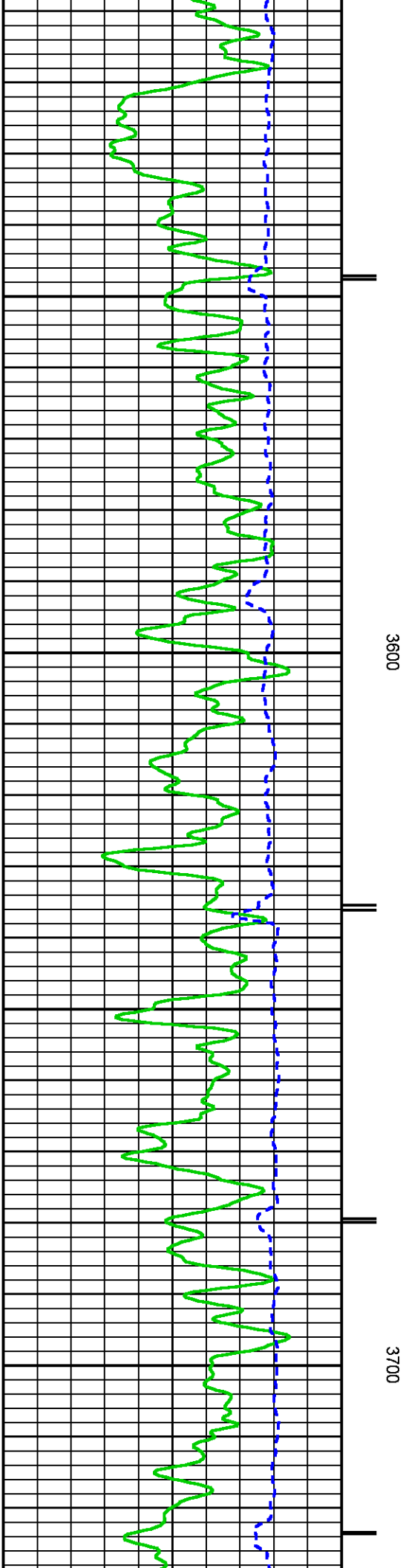
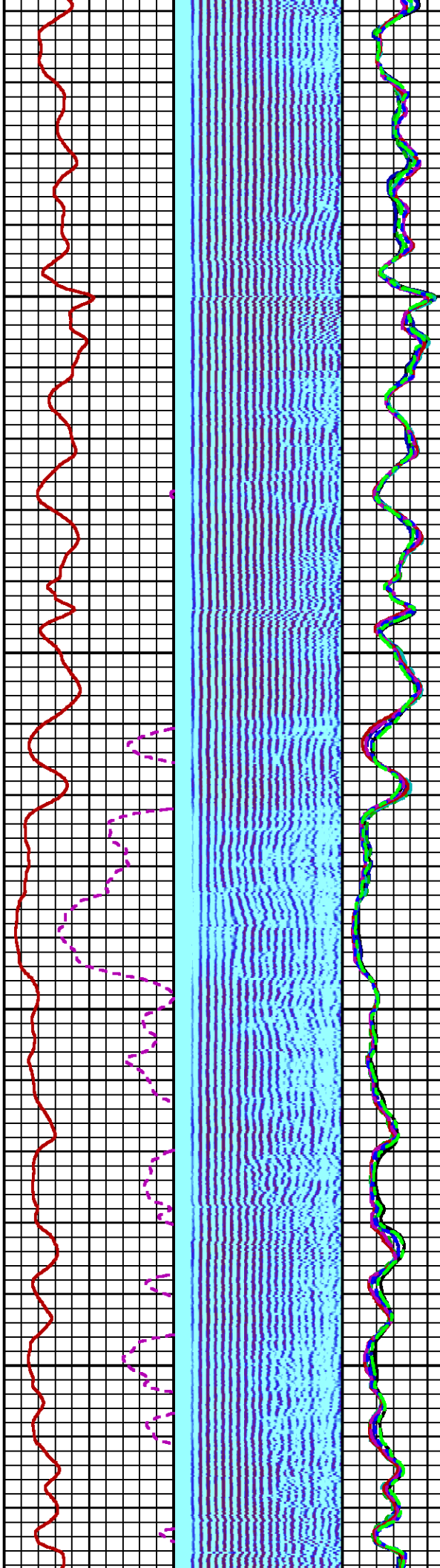
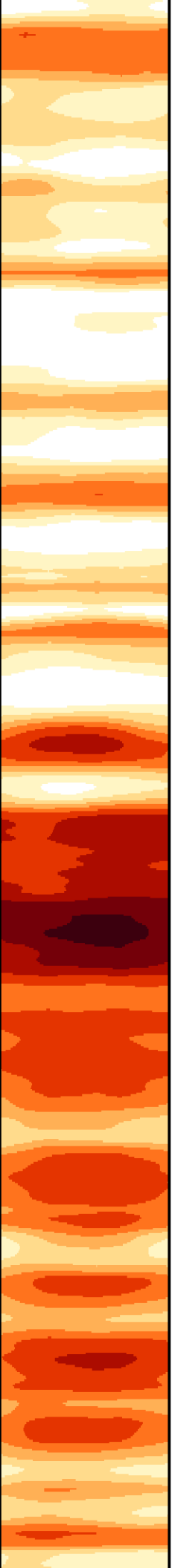


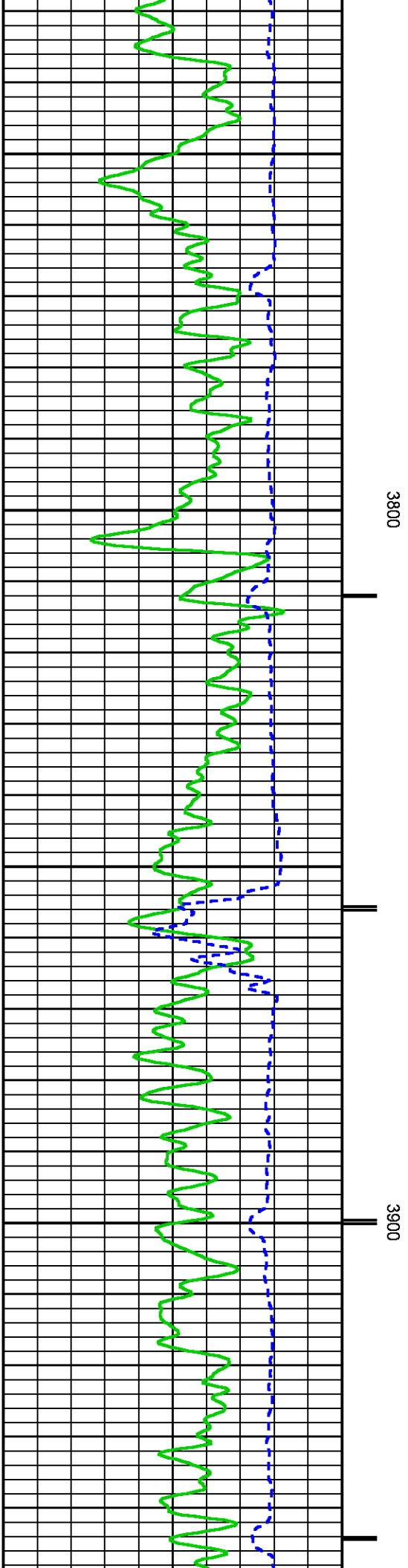
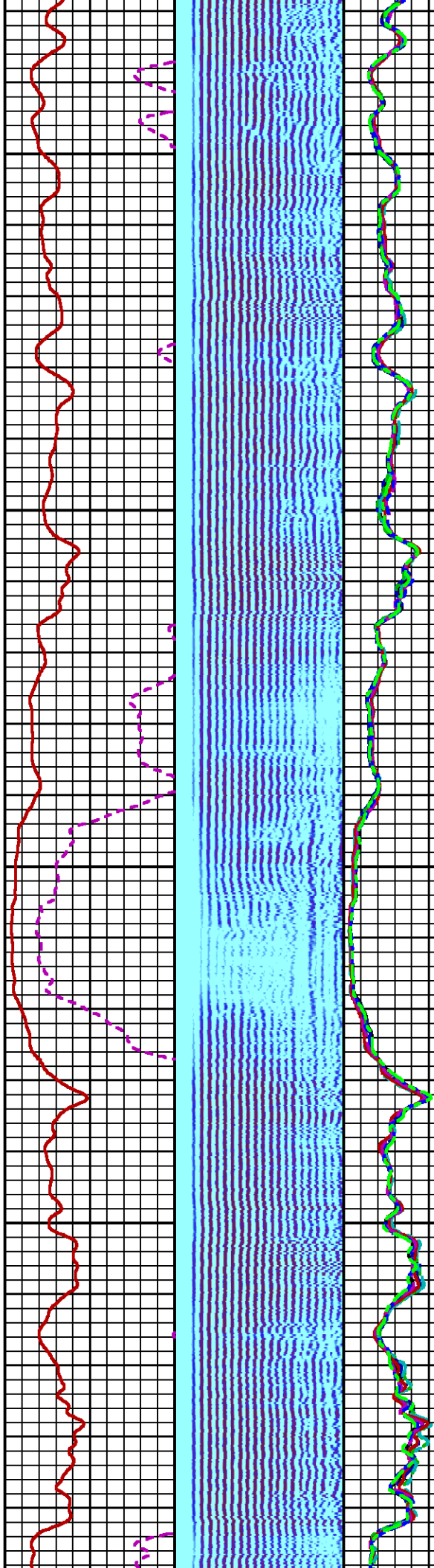


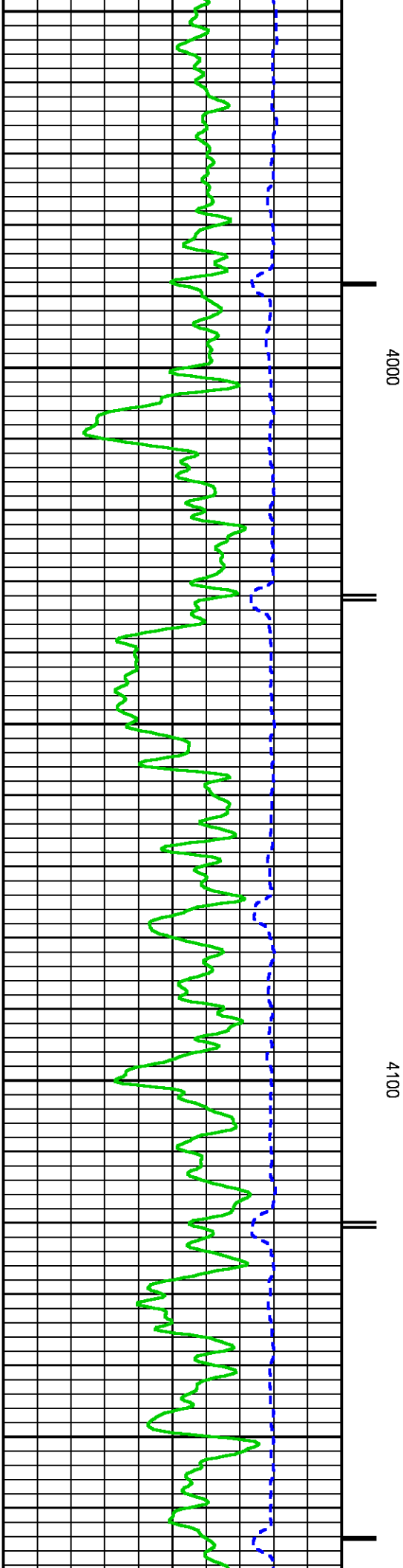
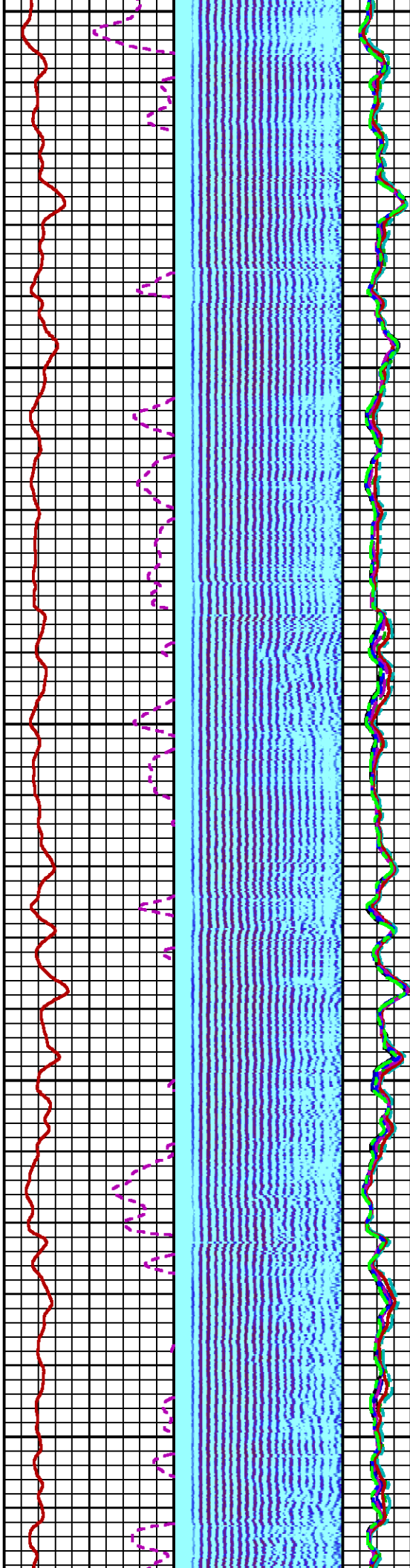


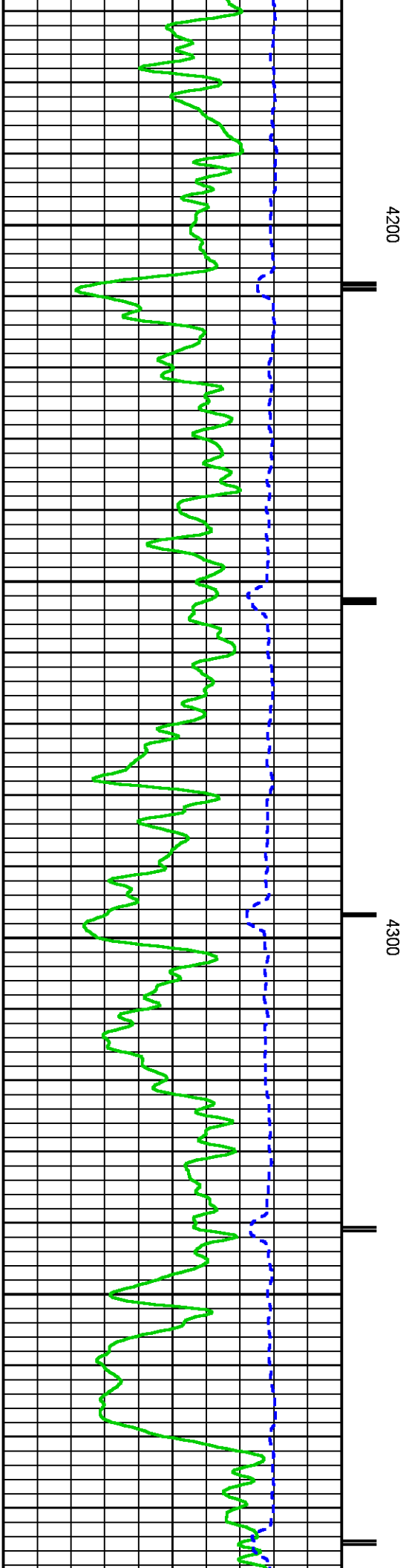
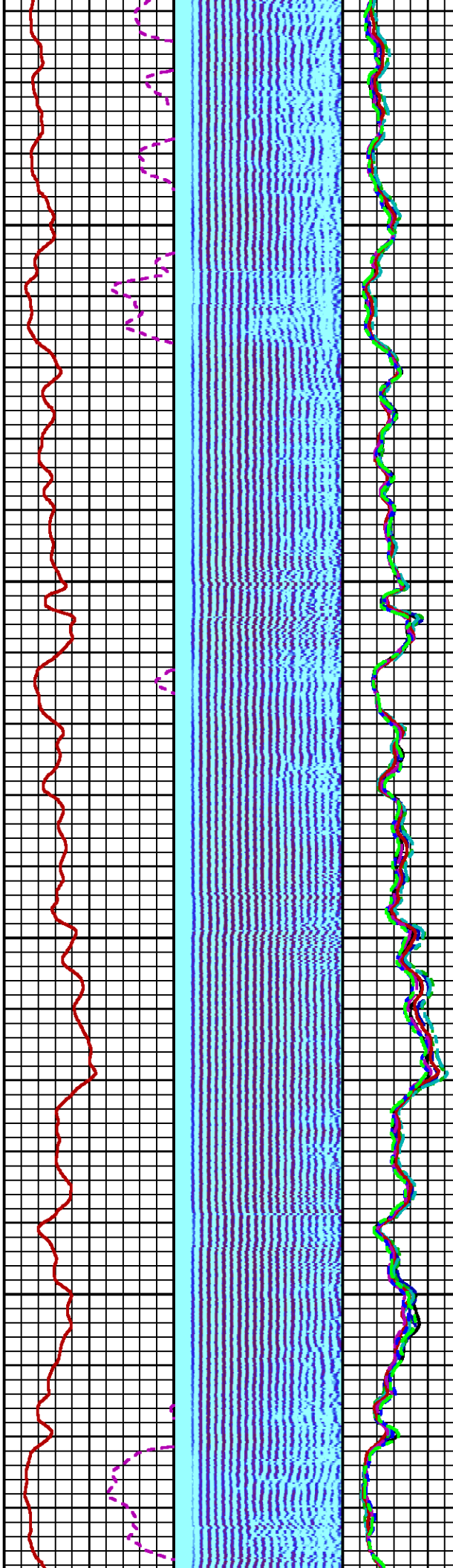
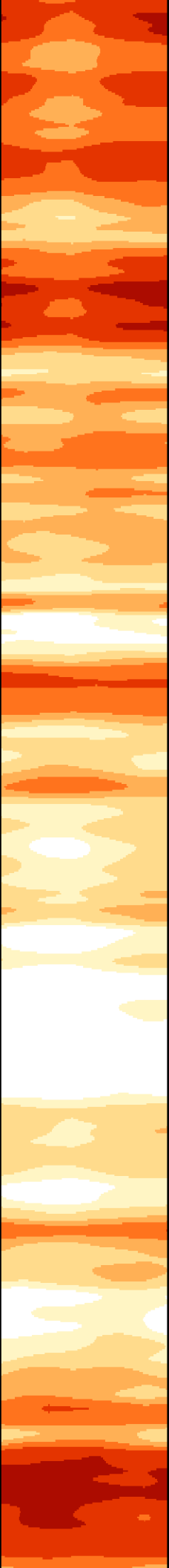




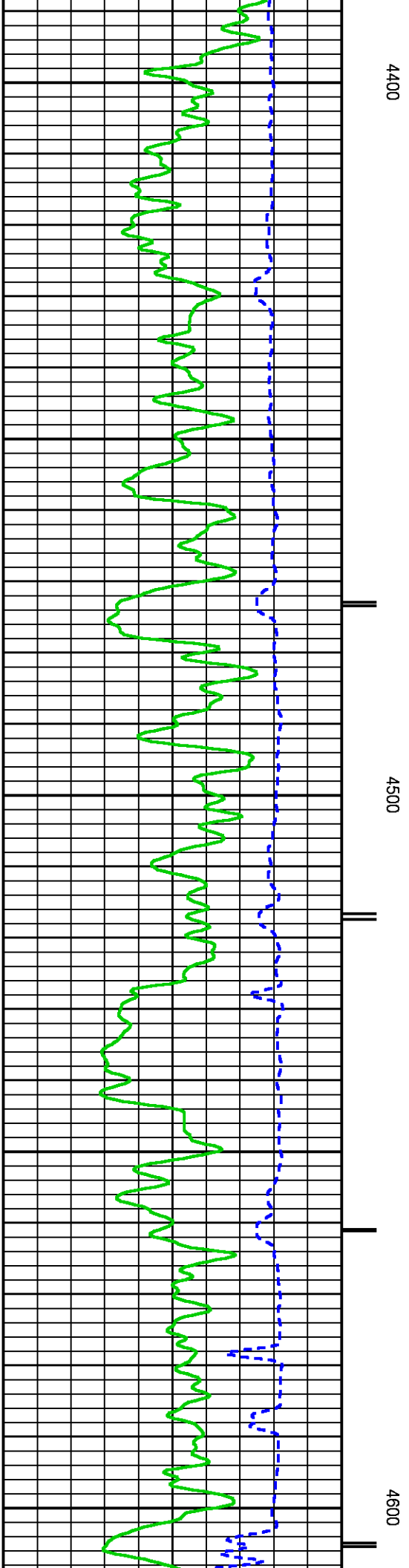
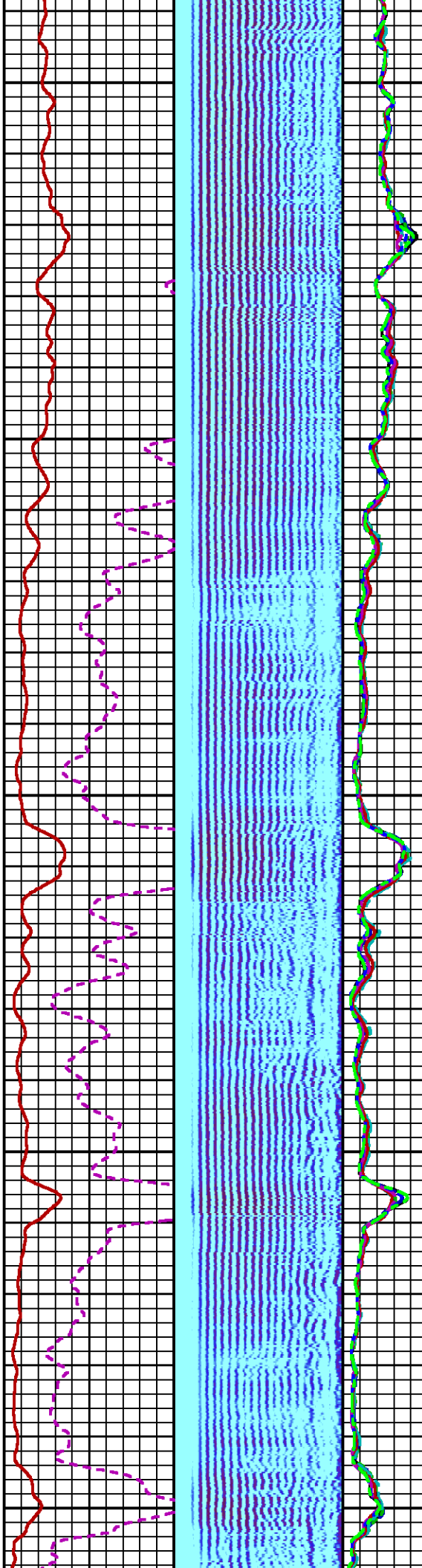


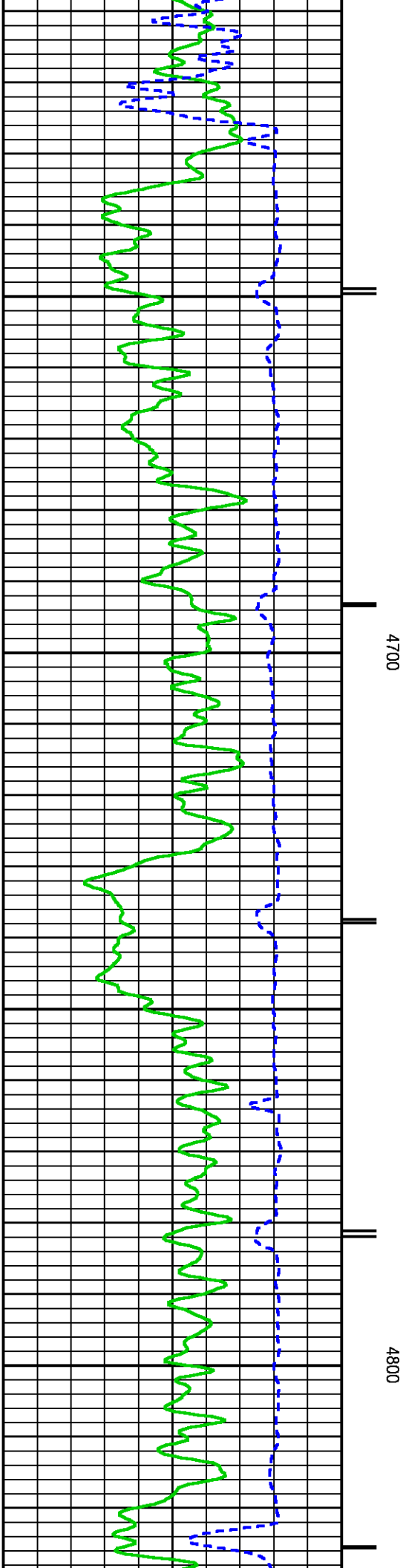
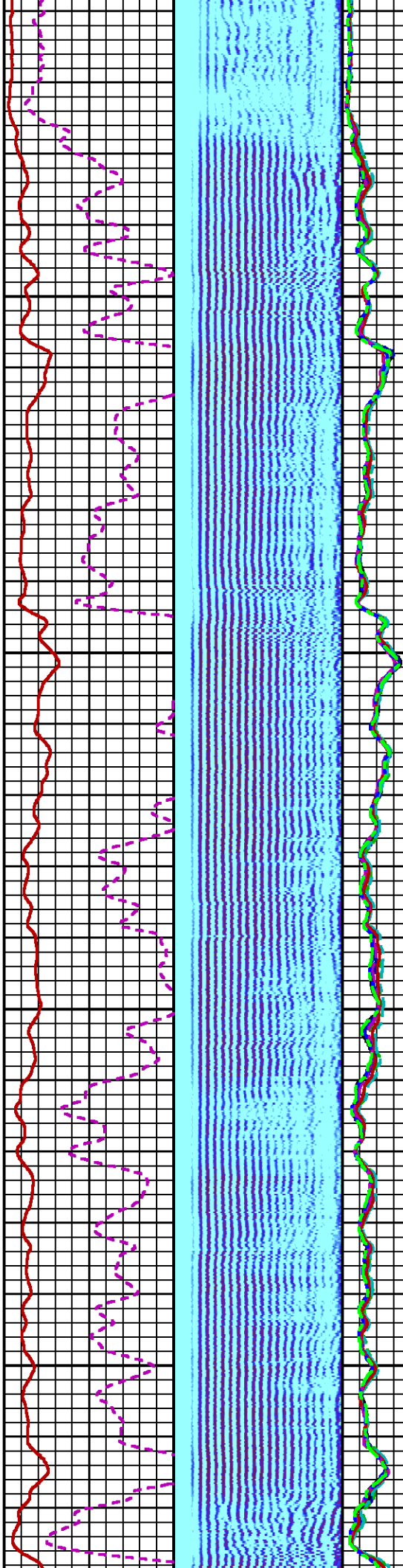


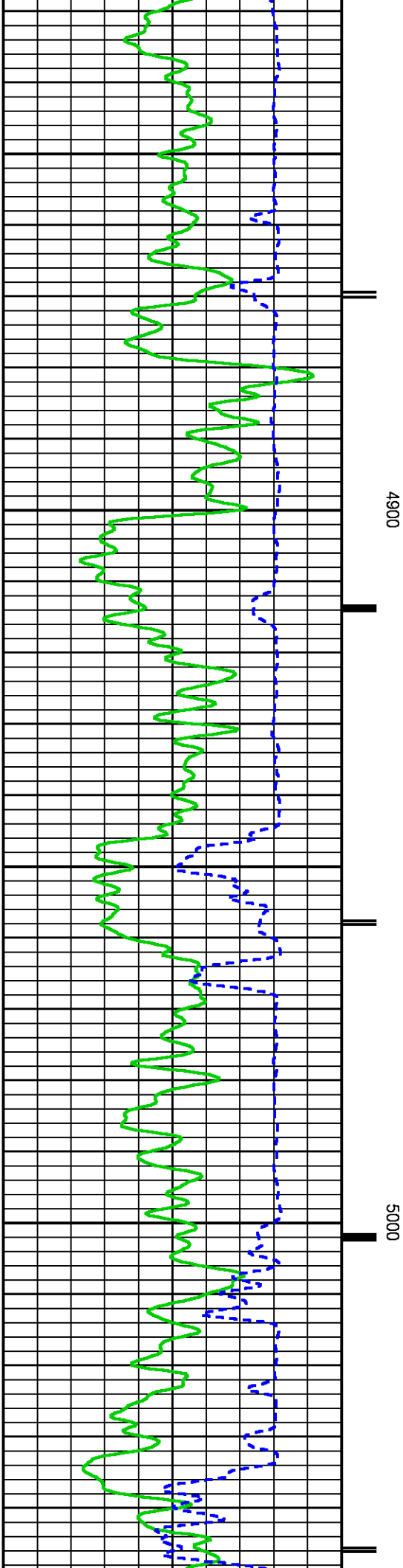
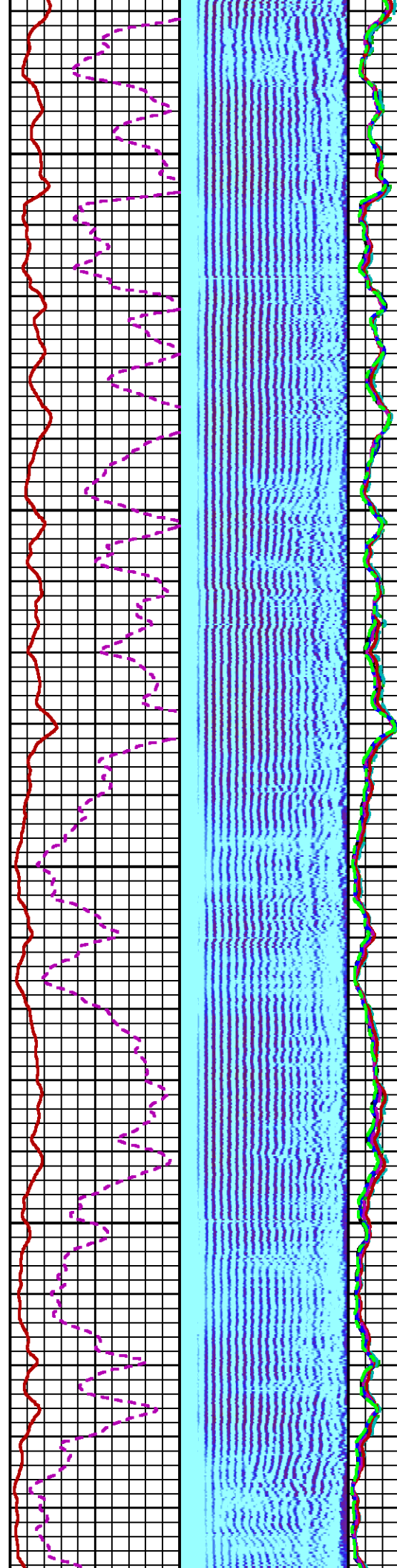
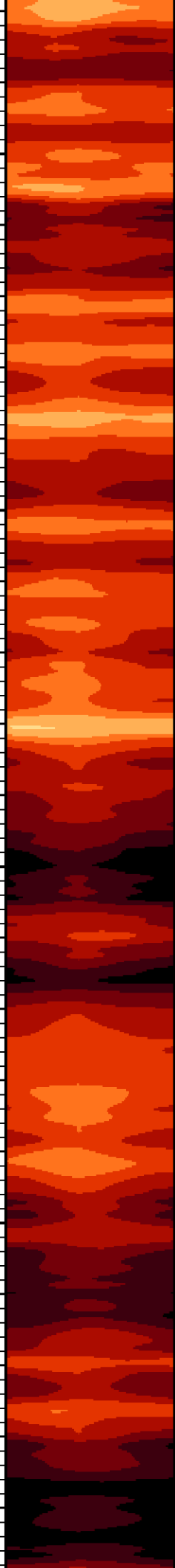


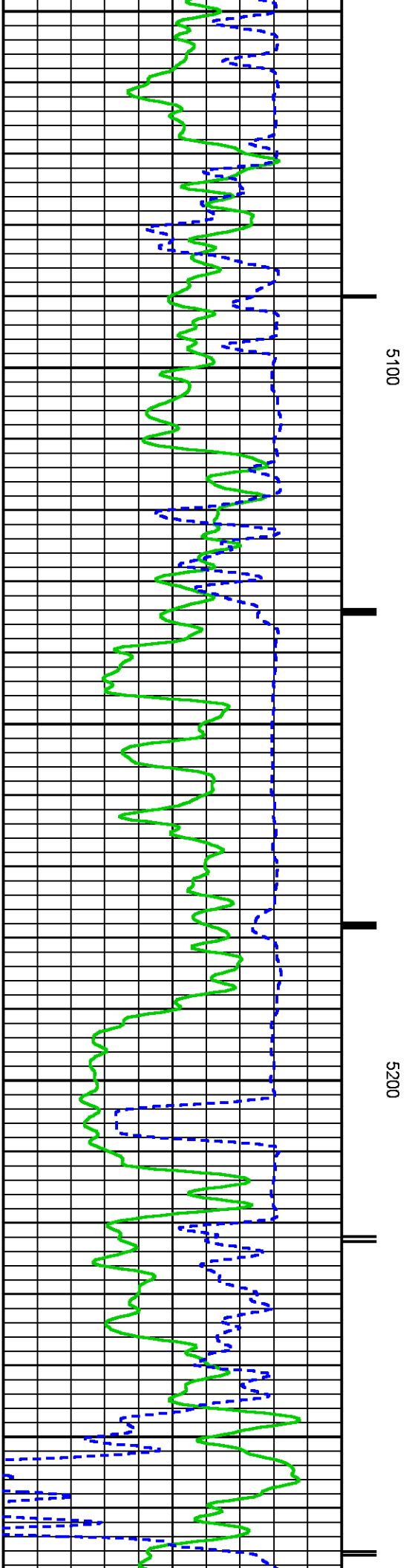
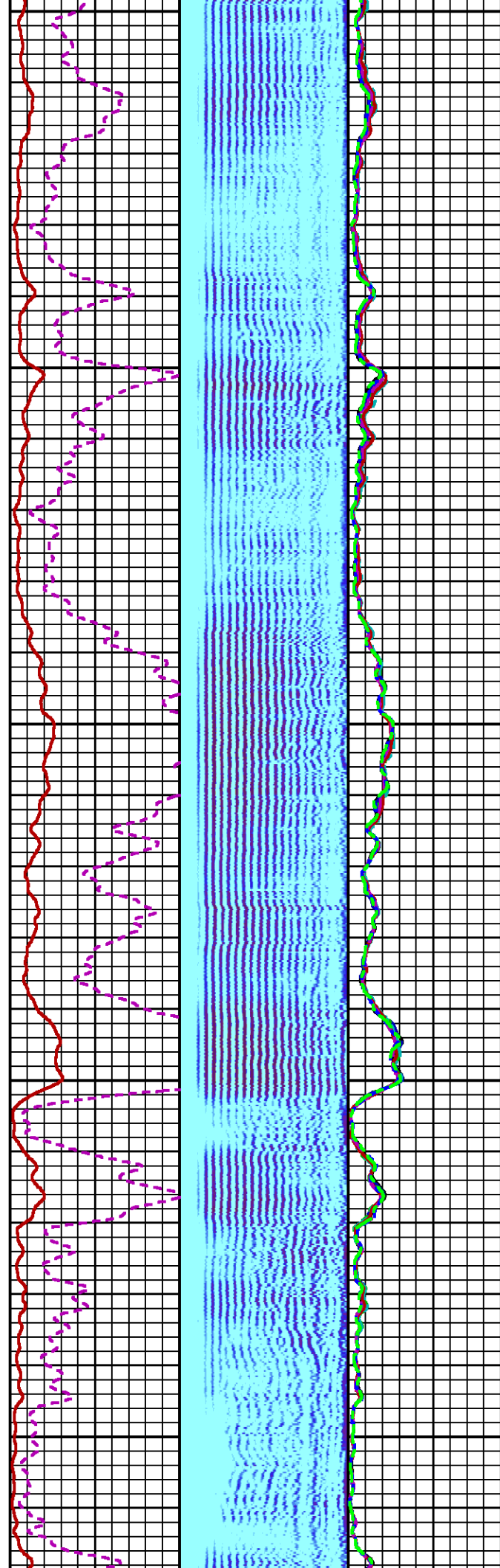
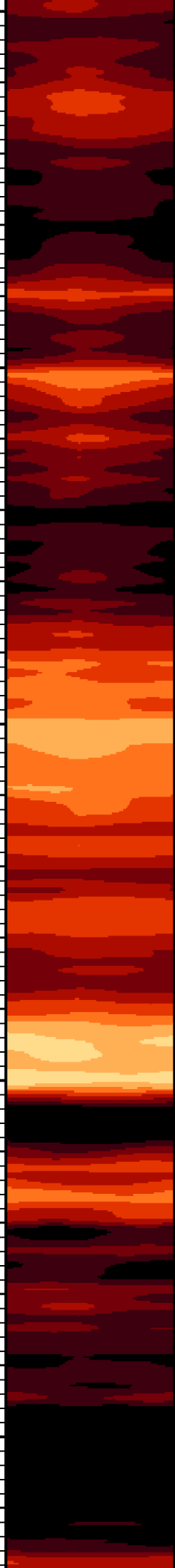




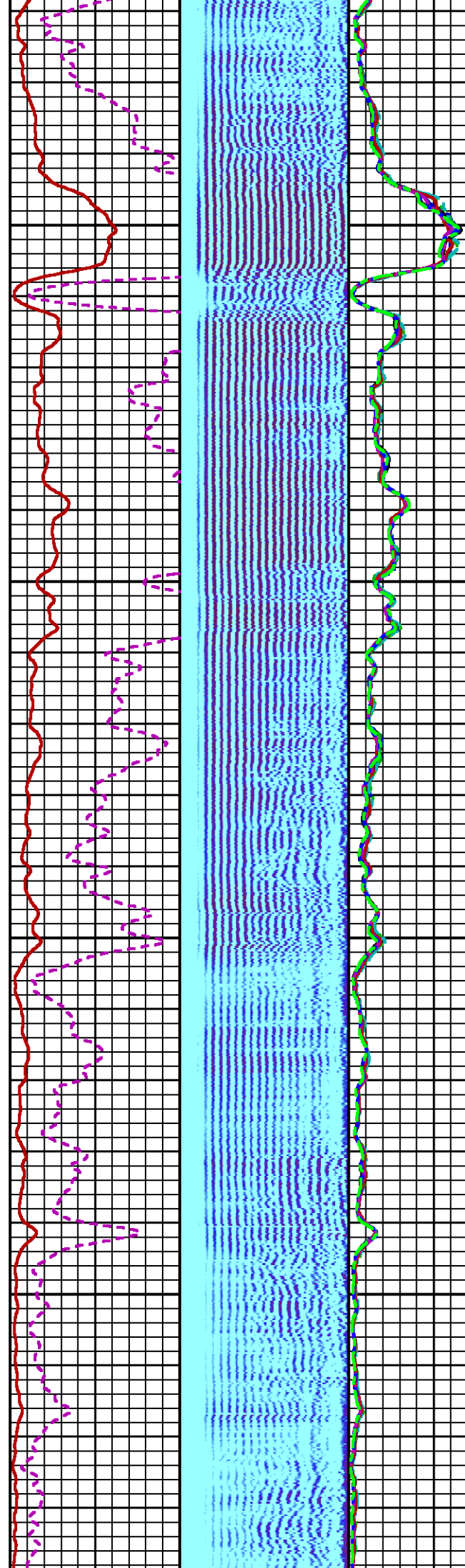
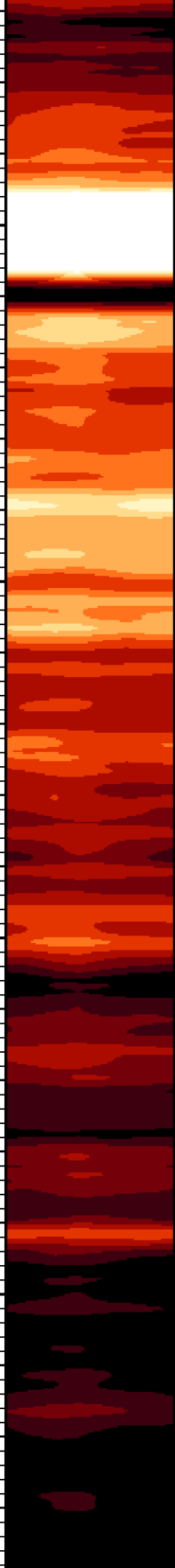




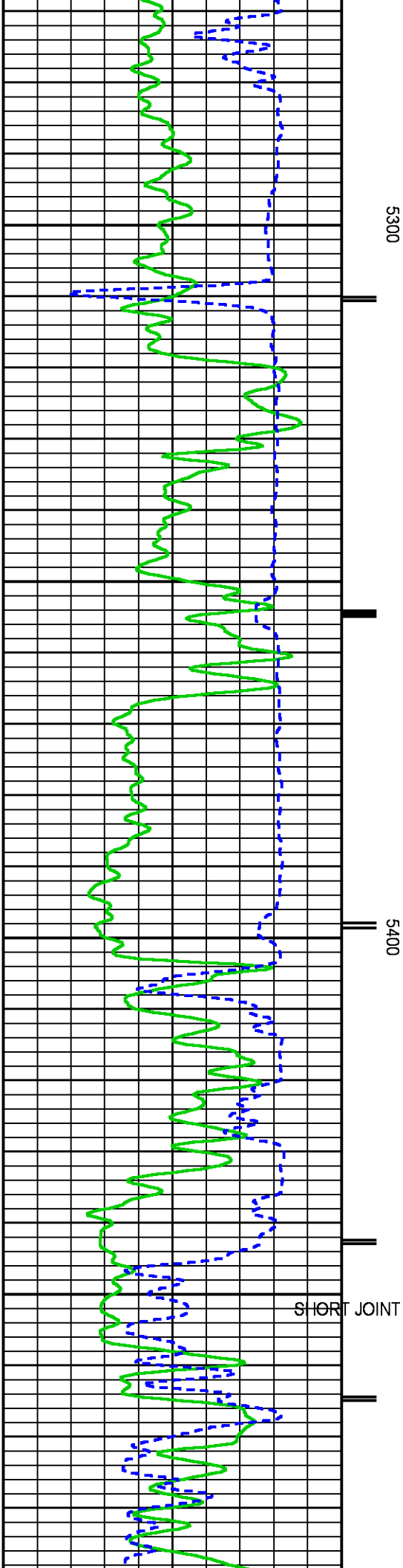


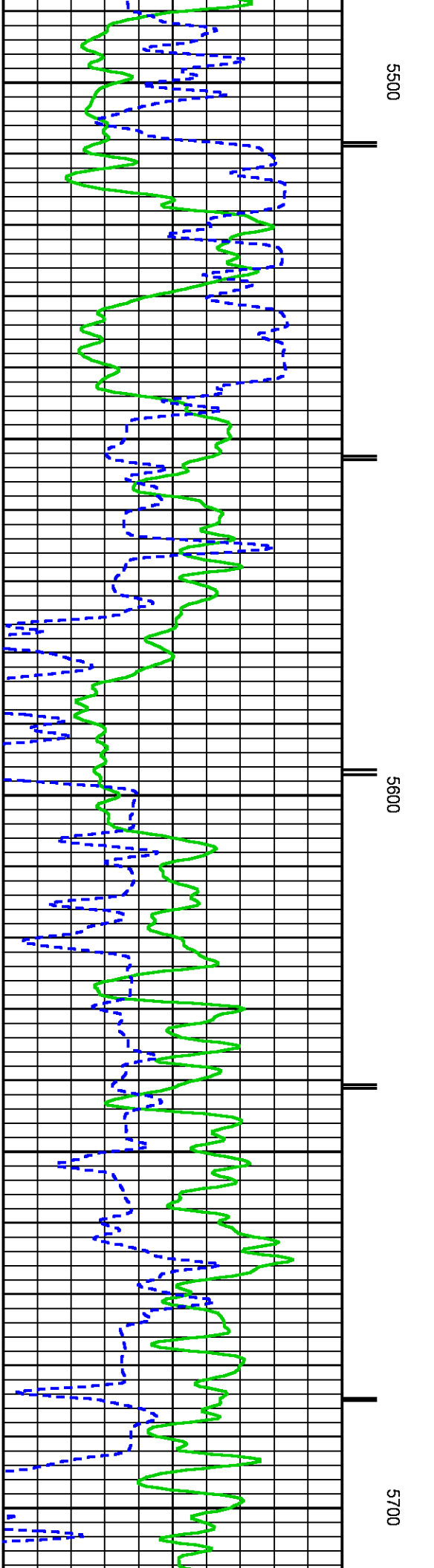
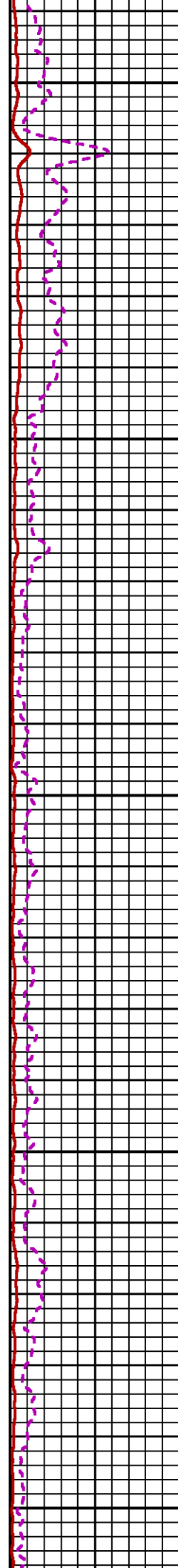
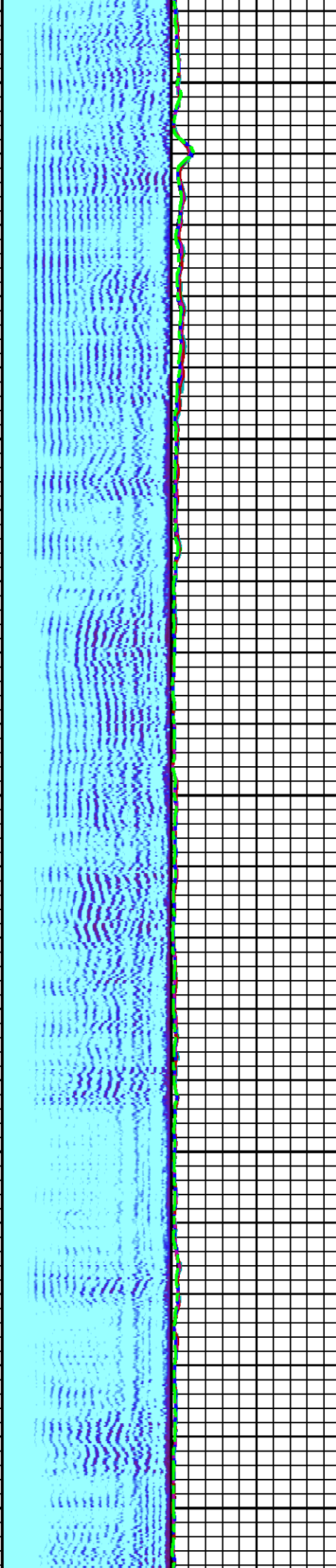






SHORT JOINT

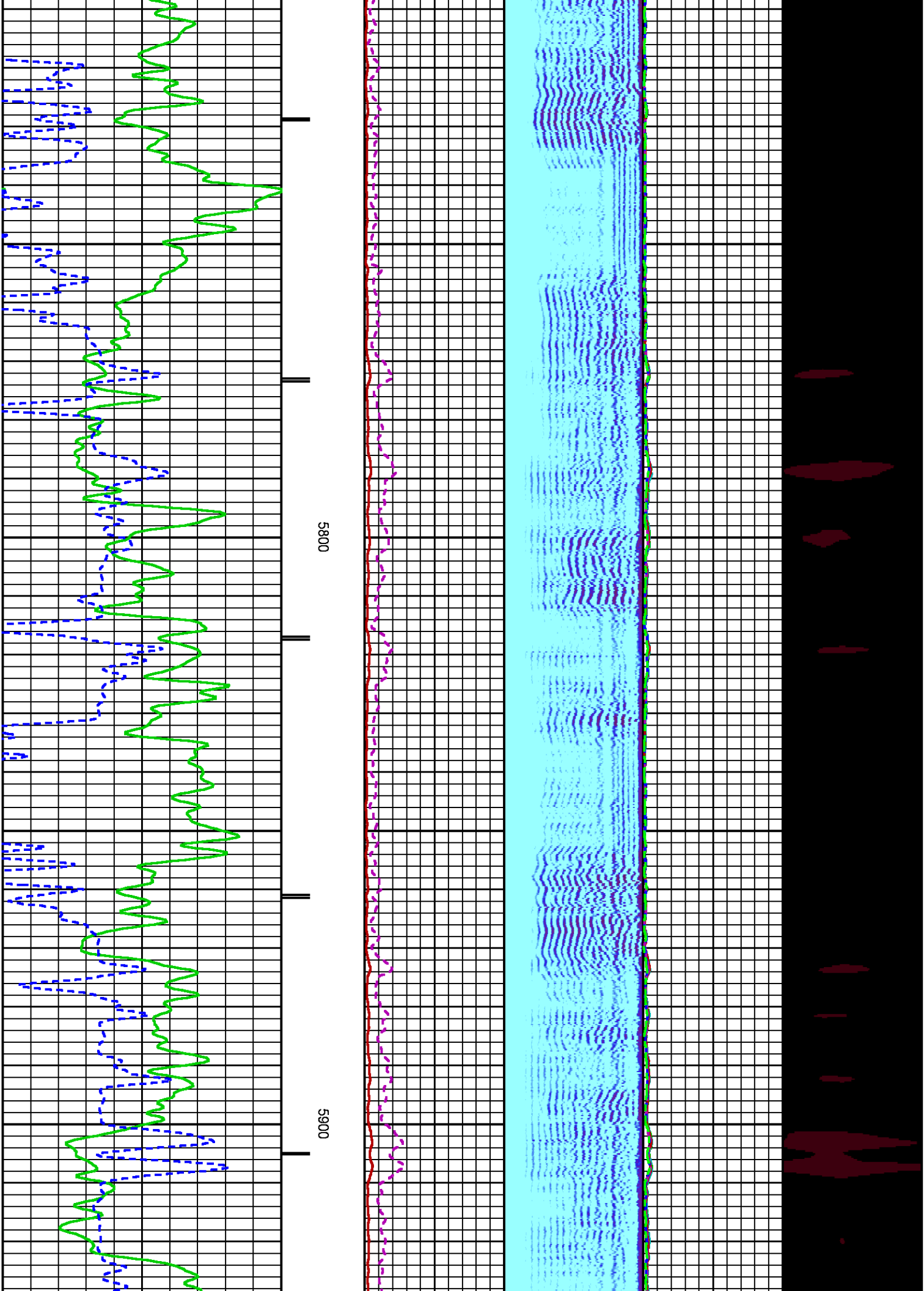


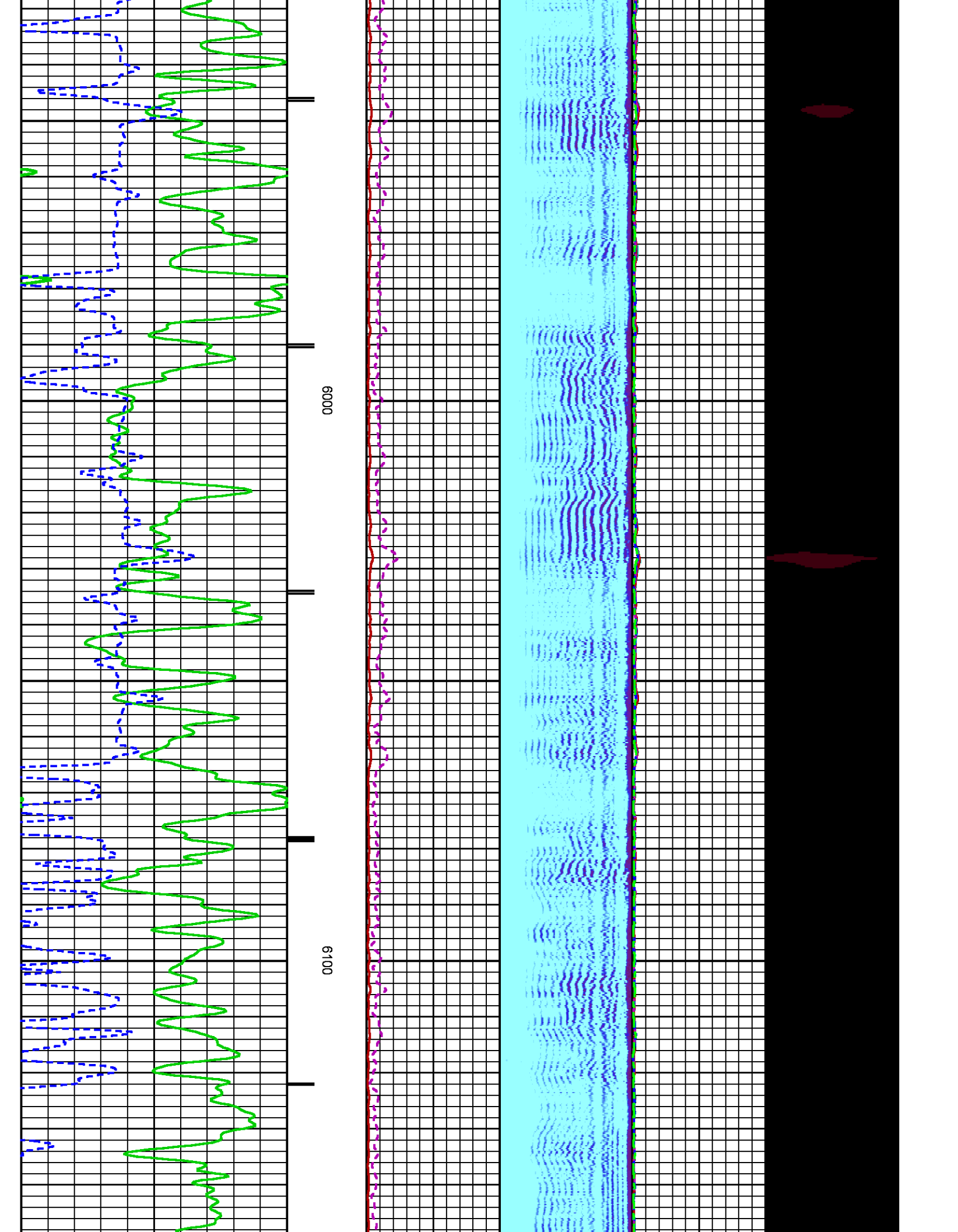


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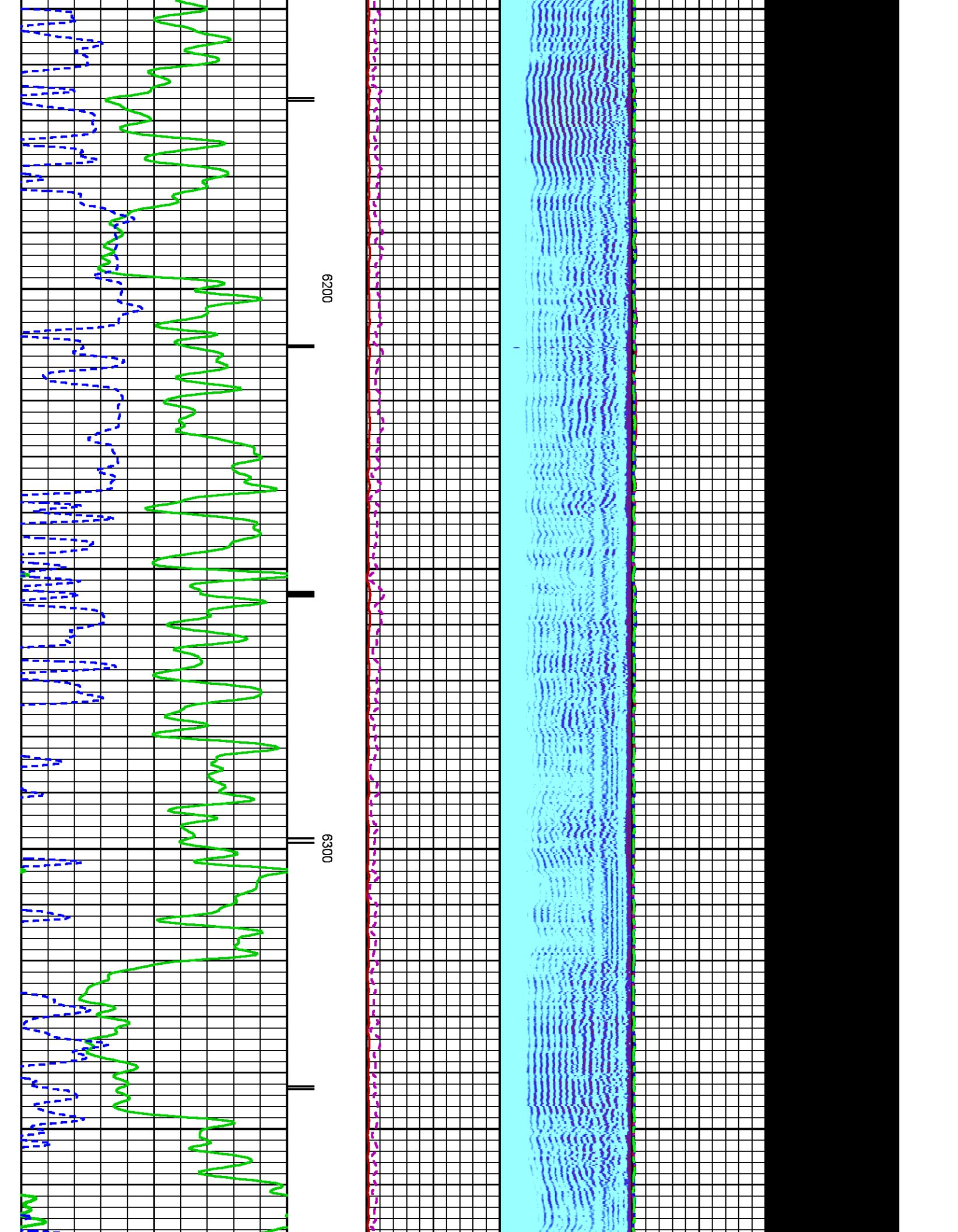
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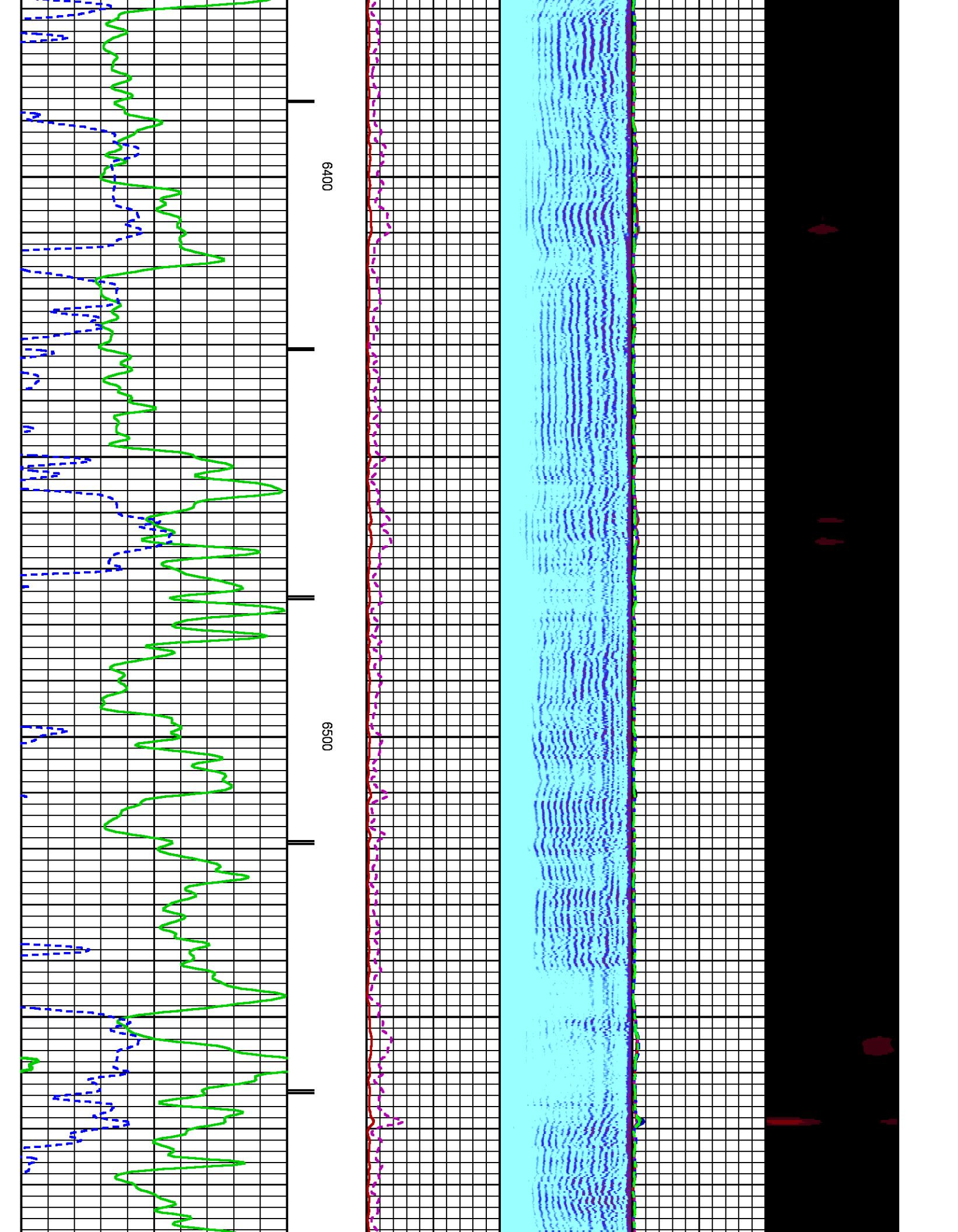
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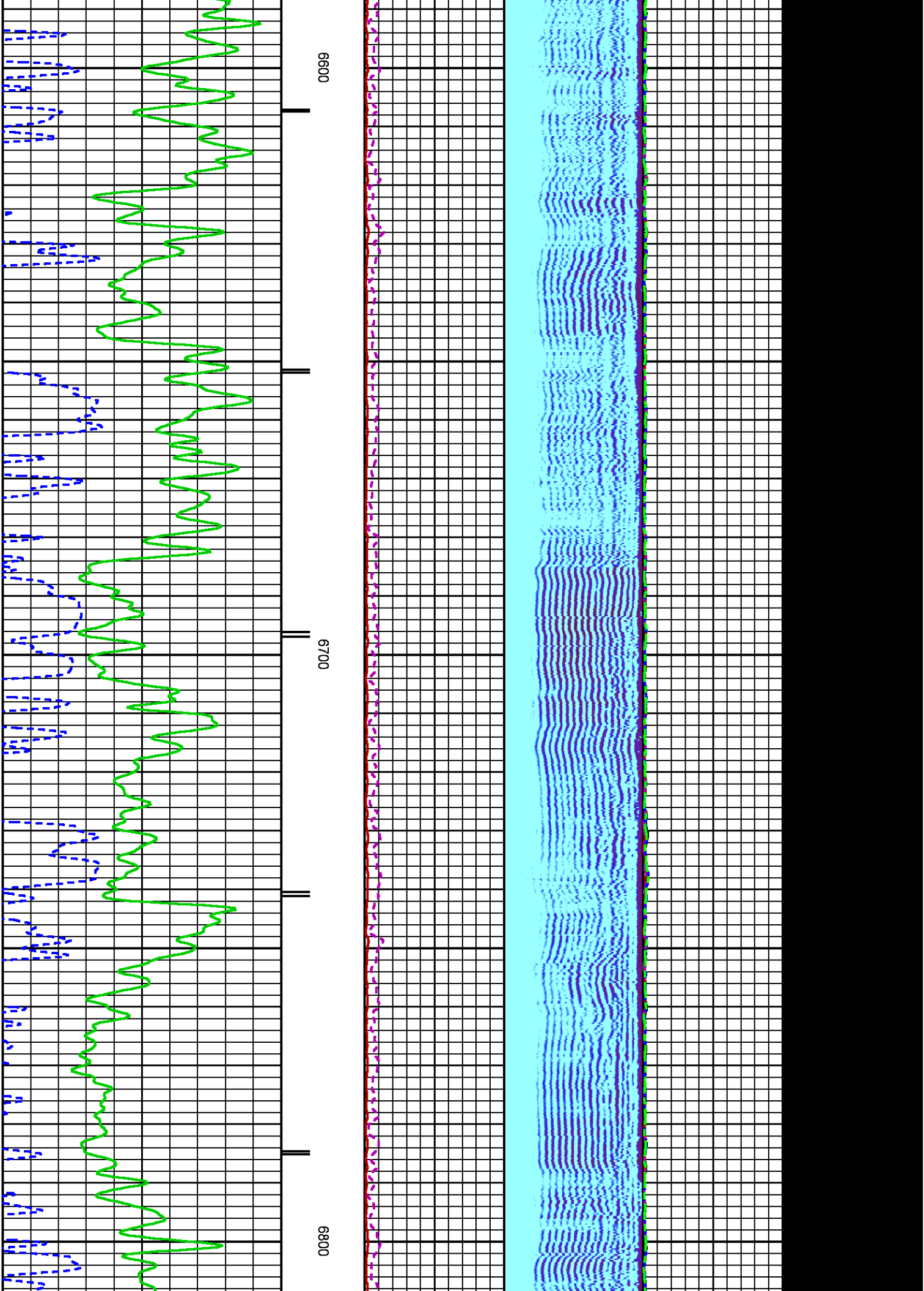


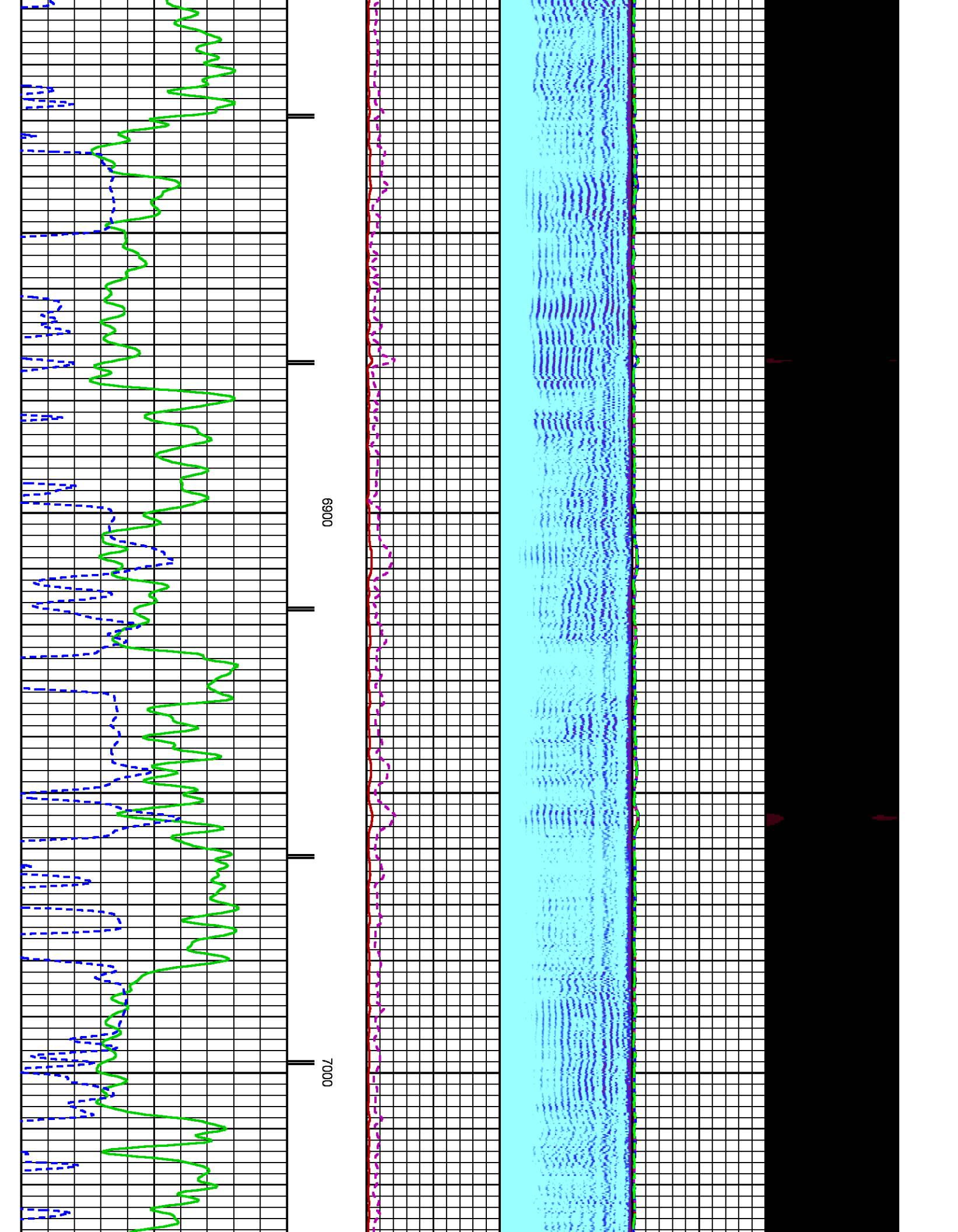




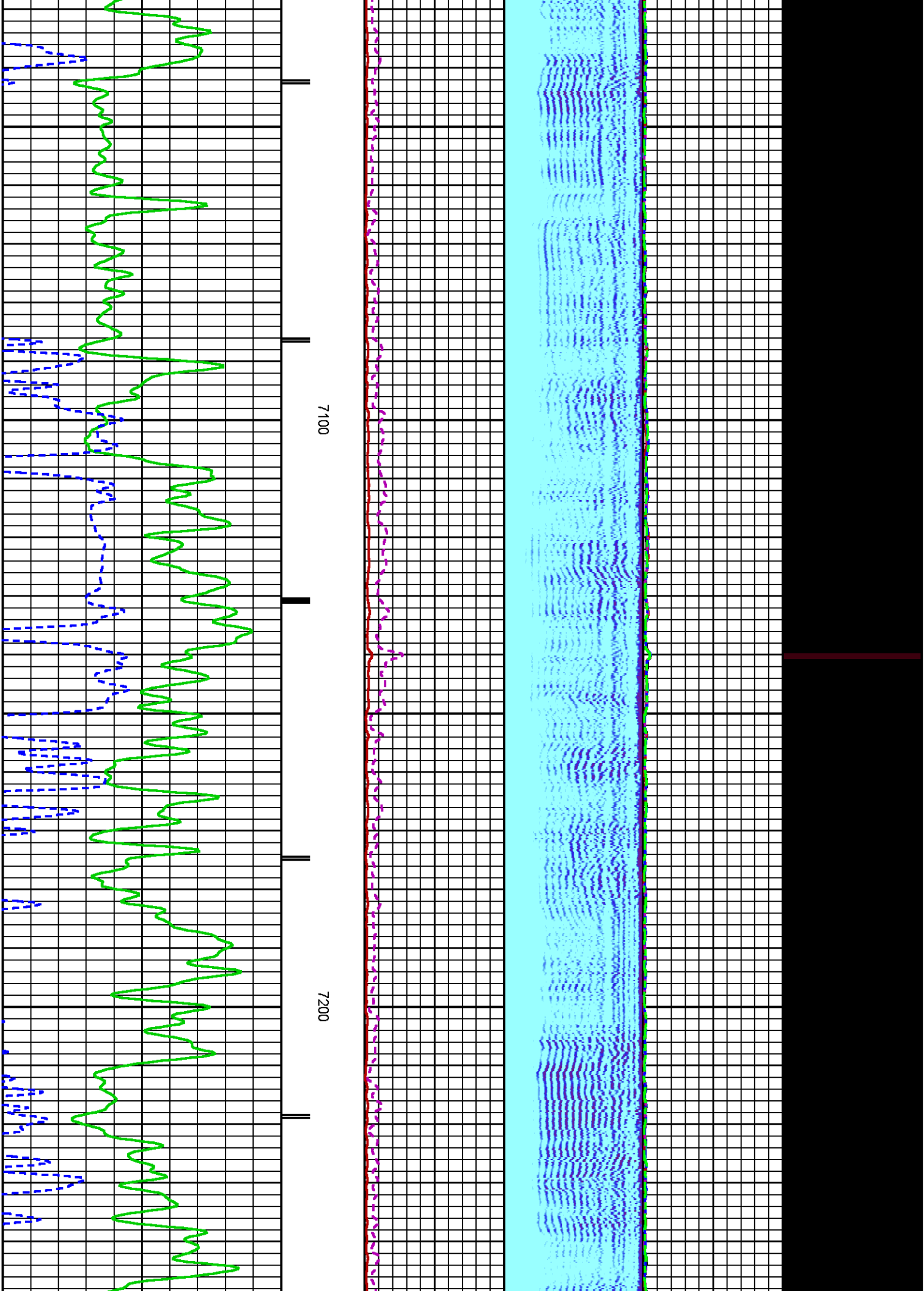


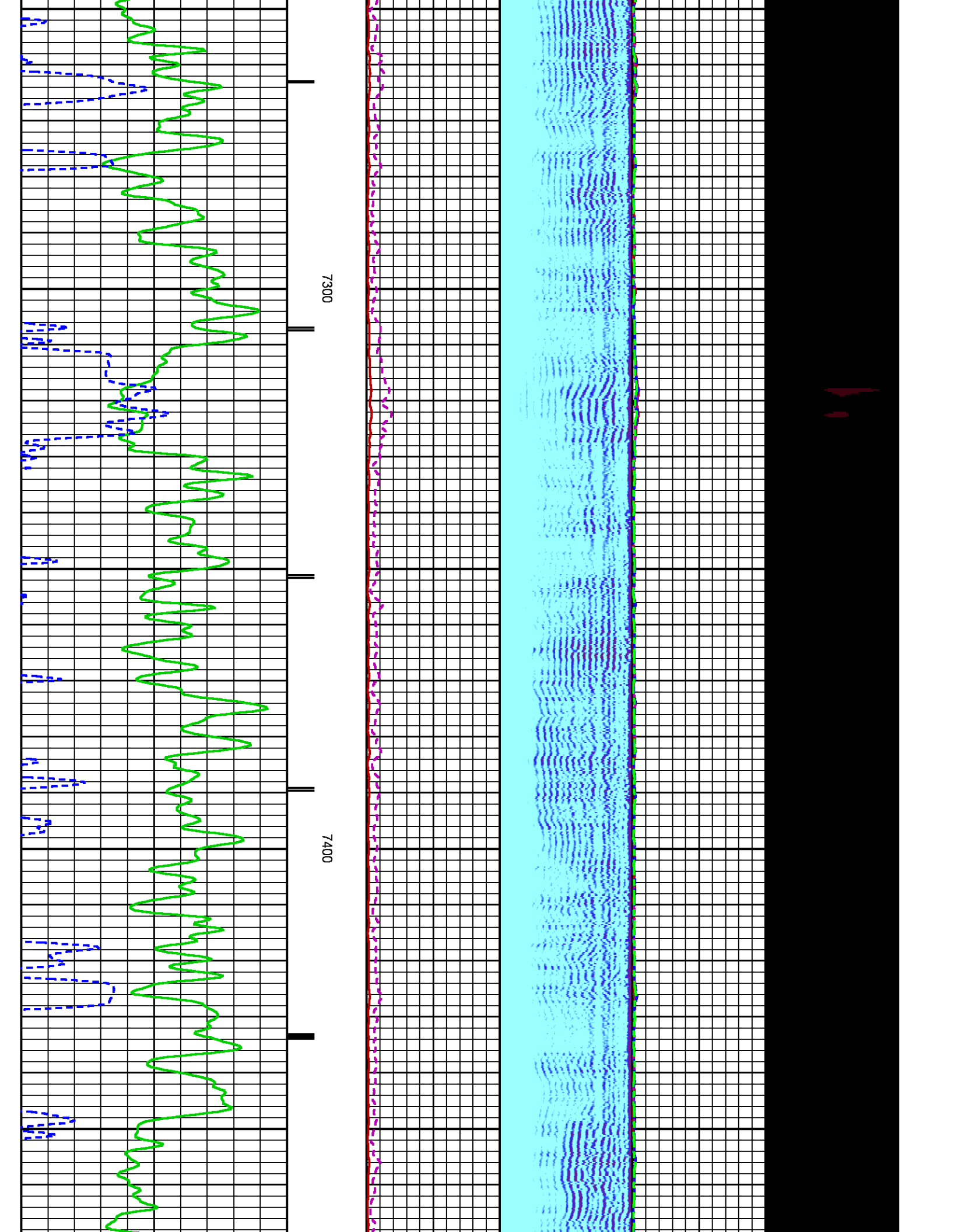


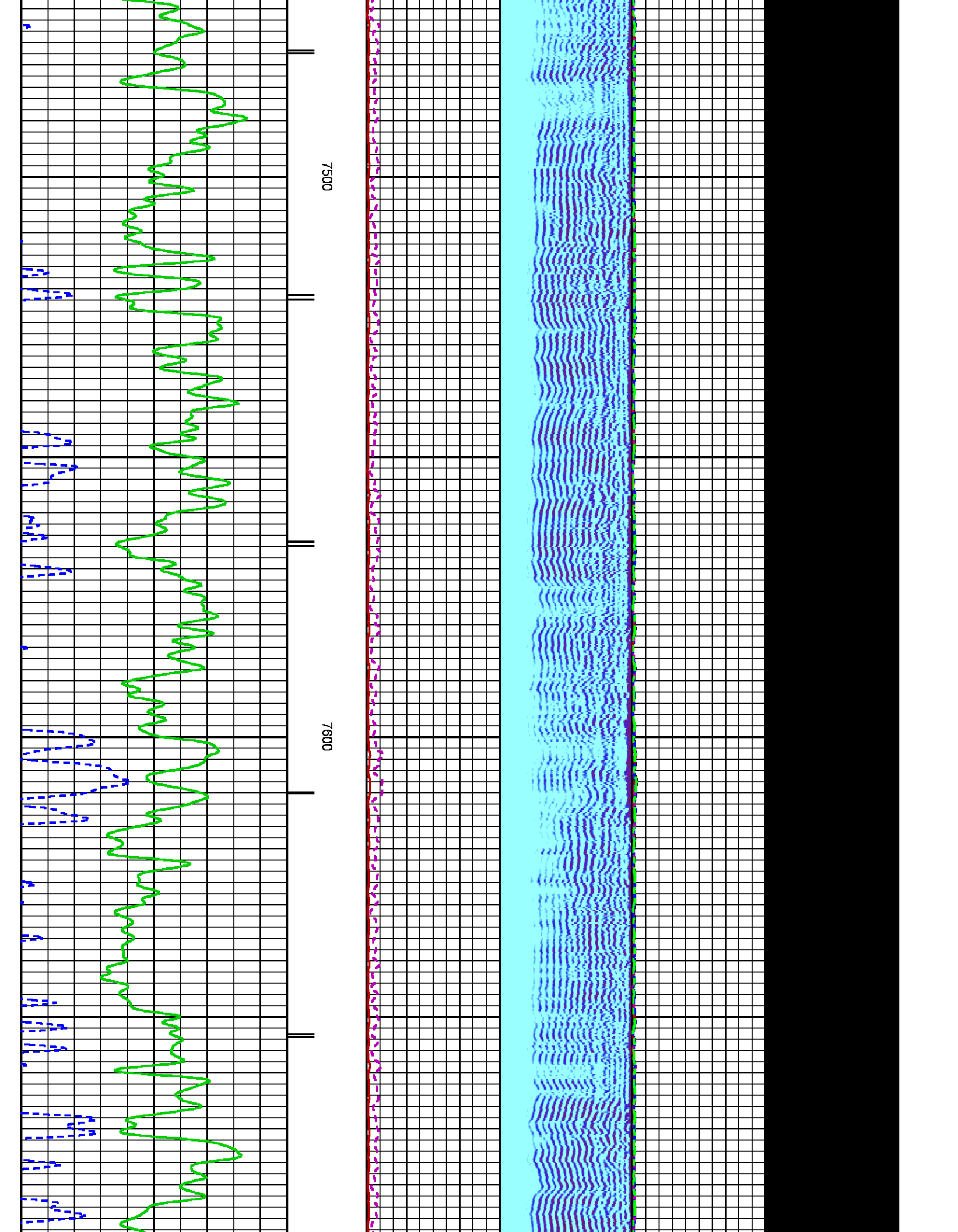


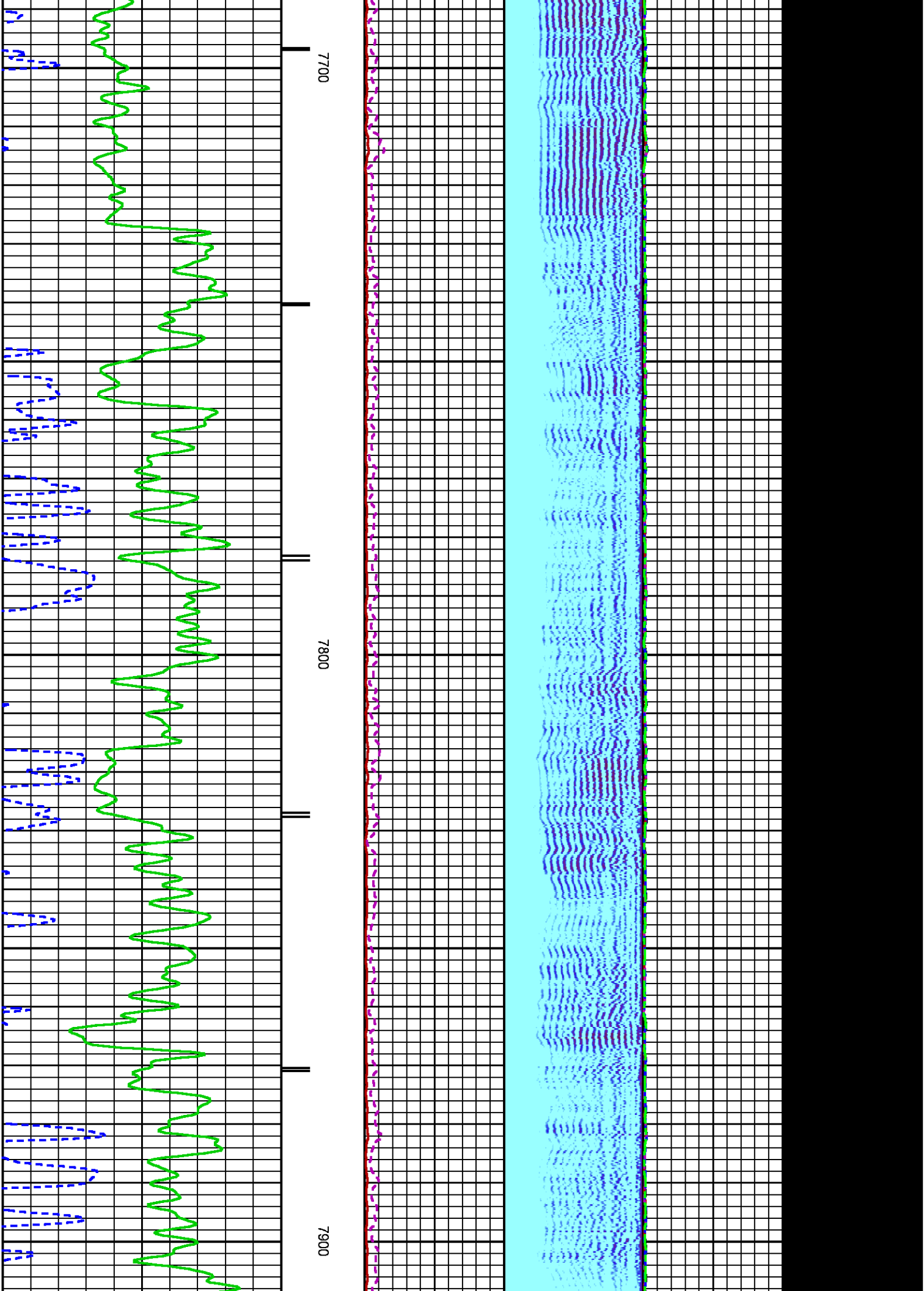




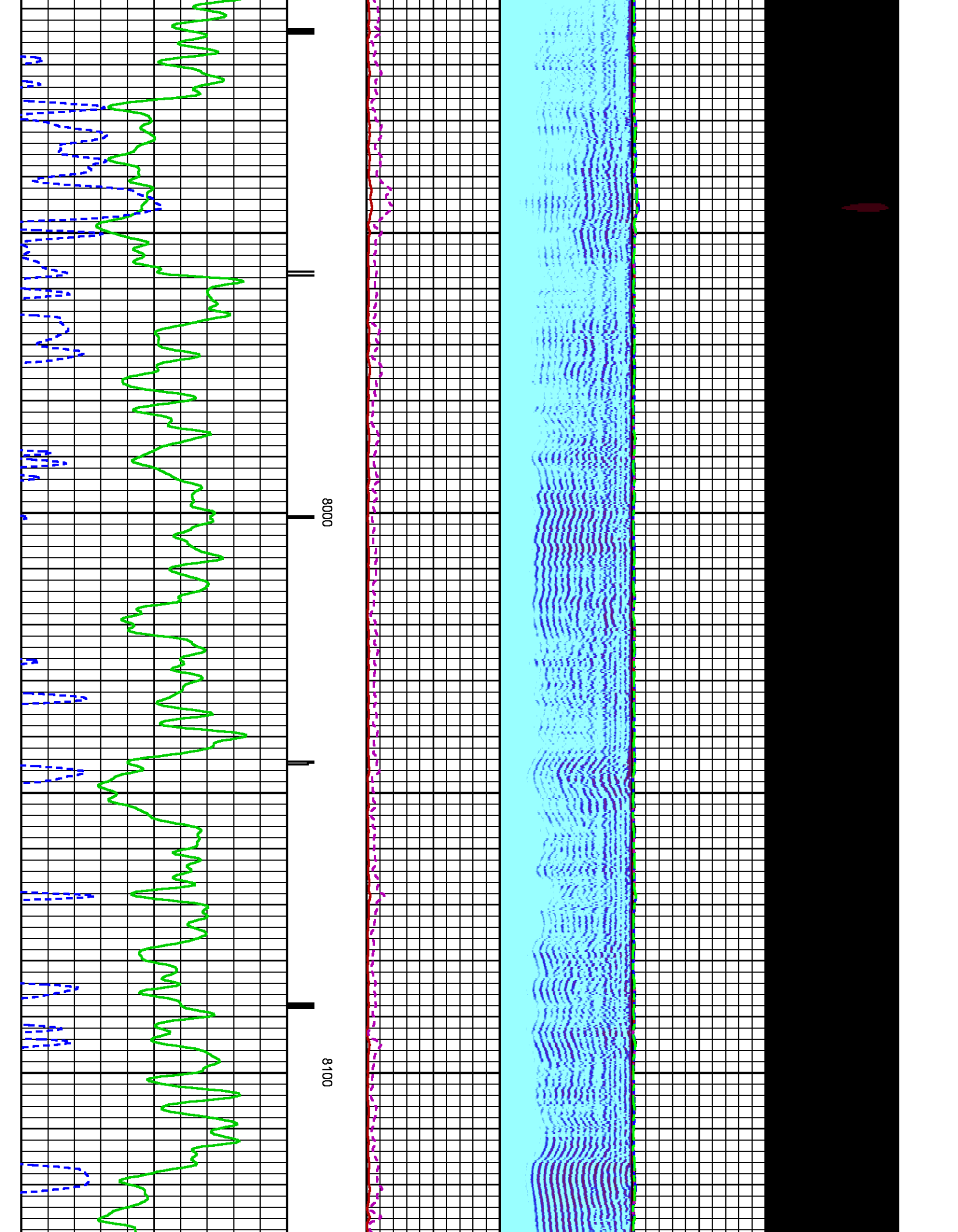


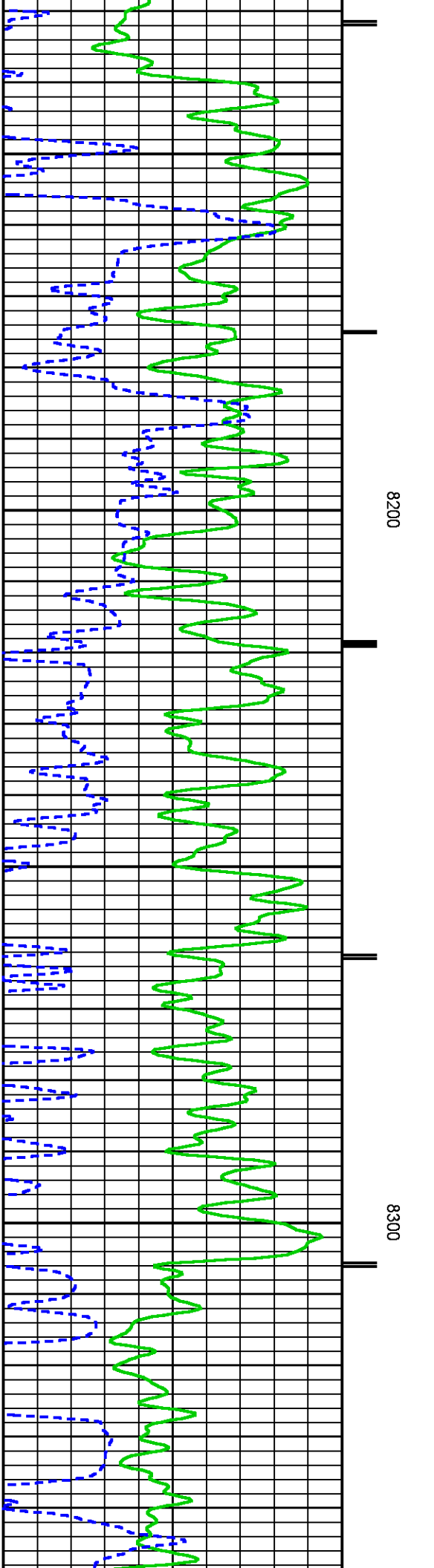
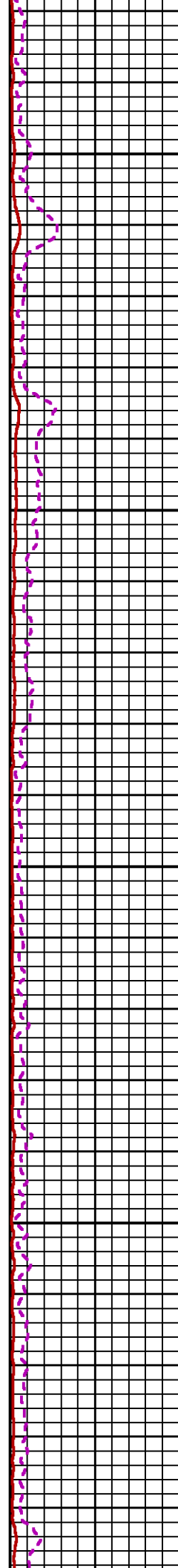
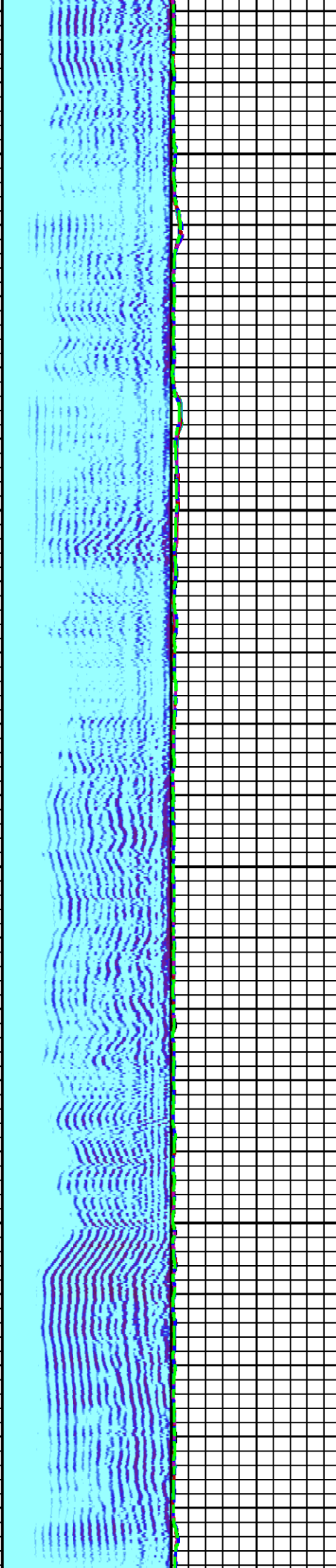


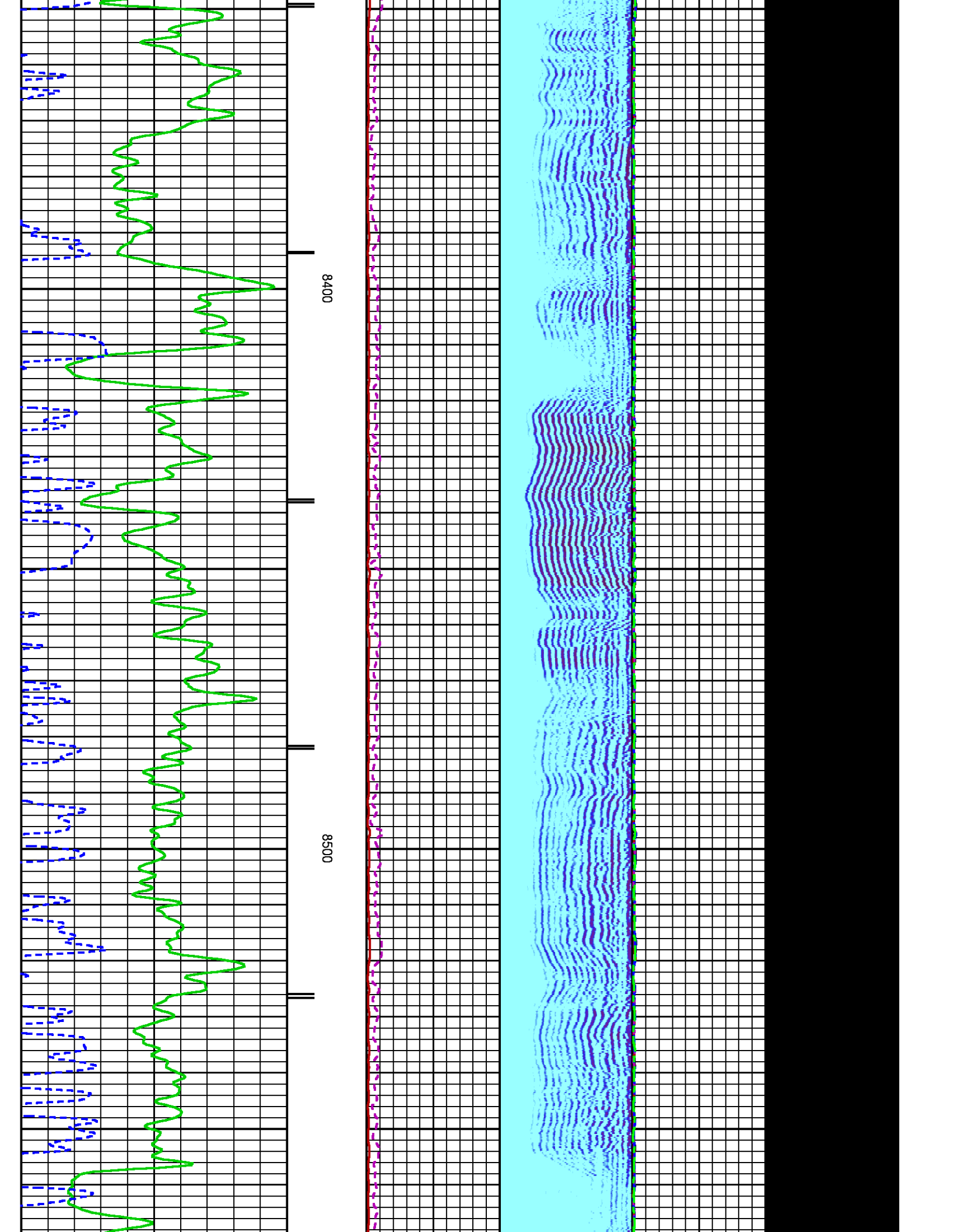


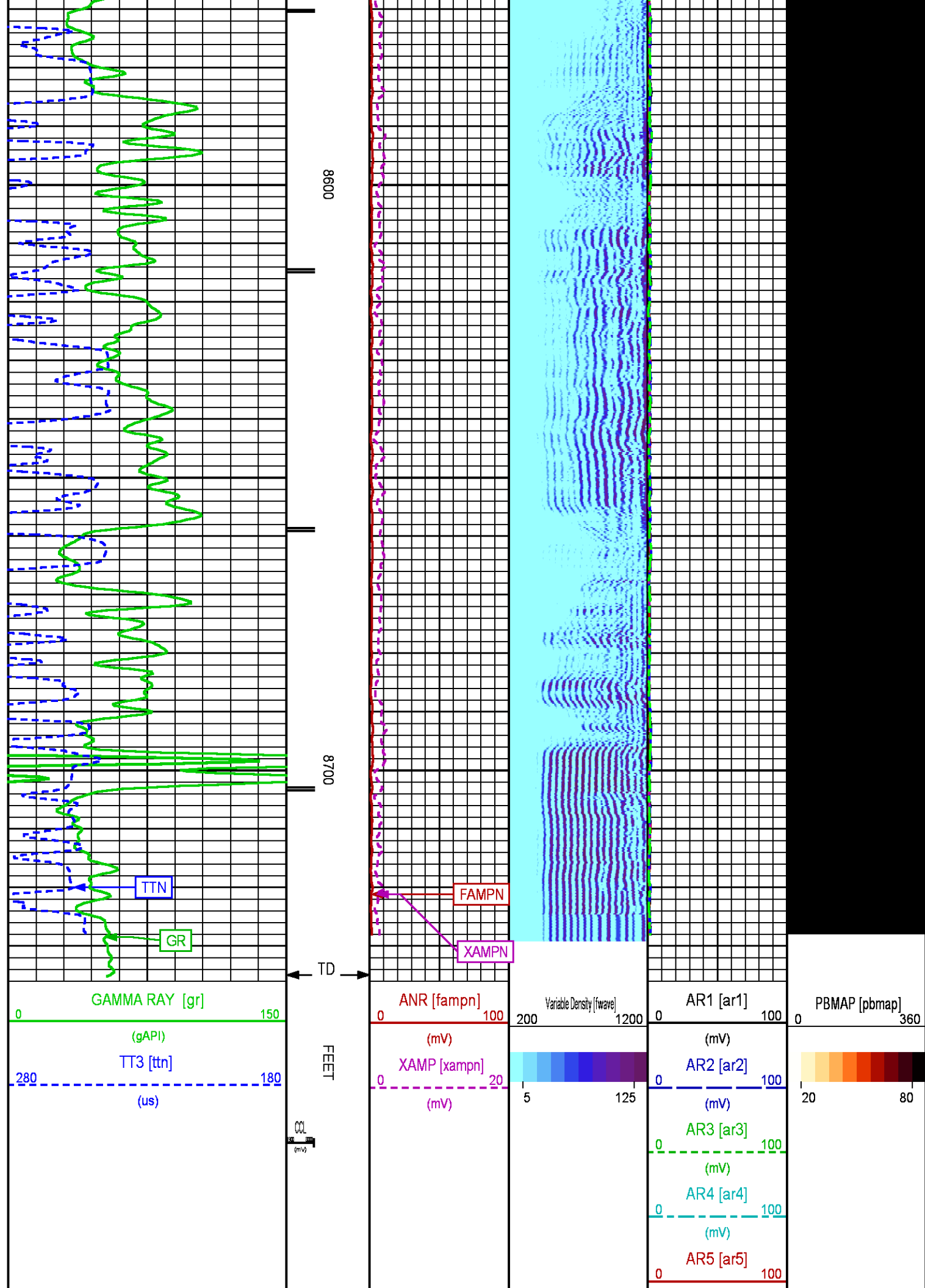




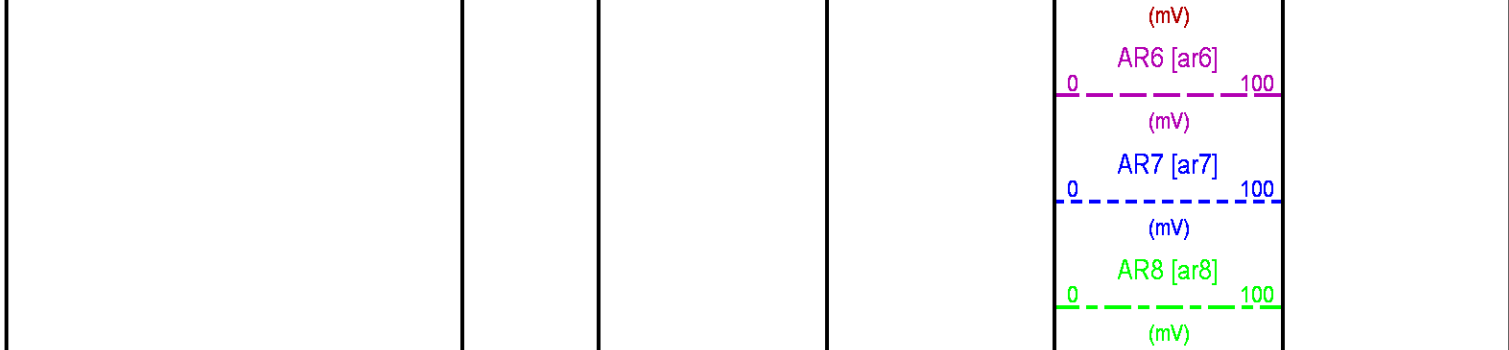












REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 4

Plotted: Sun Jan 11 11:21:14 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH093869/n012e01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 8279.000 ft BOTTOM DEPTH: 8763.085 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*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	147	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	128	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

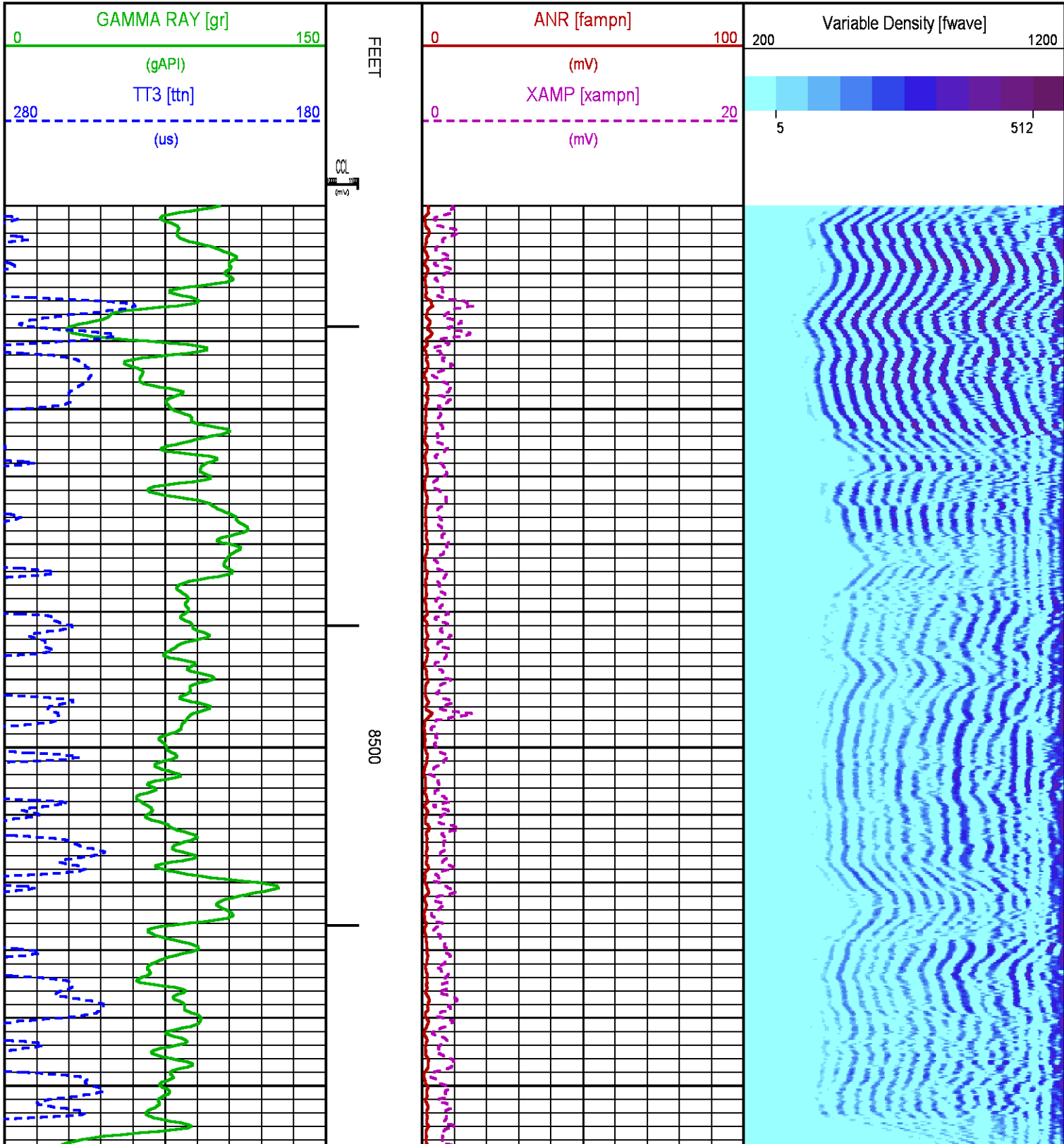
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 10 17:45:29 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 10 17:45:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 10 17:45:29 2015	FAR WAVE FORM
F1:GR	Jan 10 17:45:29 2015	GAMMA RAY
F1:TTN	Jan 10 17:45:29 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 10 17:45:29 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

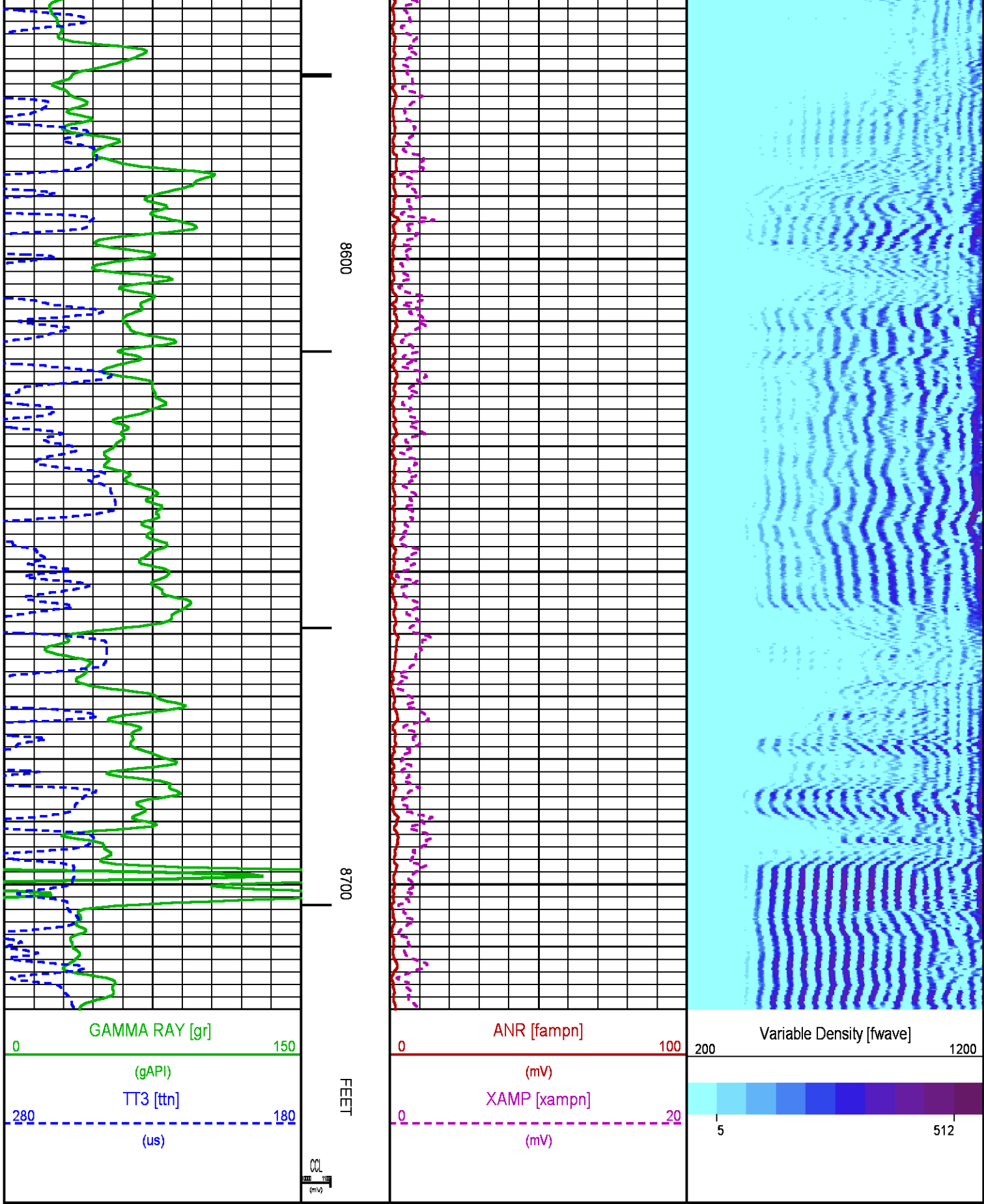
# CURVE MEASURE POINT OFFSET

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

Presentation : HL6670:WPX\_CBL\_REPEAT\_PRESENTATION.fvpdf [5"/100' Scale]  
 Plot Interval : 8420 - 8720 Feet

Data File 1 : F1 : HL6670:/dat1a/CH093869/RAL\_REPEAT.xtf  
 Created On : Jan 10 17:45:29 2015  
 Company : WPX ENERGY ROCKY MTN LLC  
 Well : FEDERAL PA 31-27  
 Field : PARAHUTE  
 File Interval : 8258 - 8752.75 Feet  
 OCT : n012e





CALIBRATION / VERIFICATION SUMMARY





# INSTRUMENT CONFIGURATION

Source File: /dat1a/CH093868/n012e~F.tdg

## CABLEHEAD

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

## RADIAL BOND TOOL

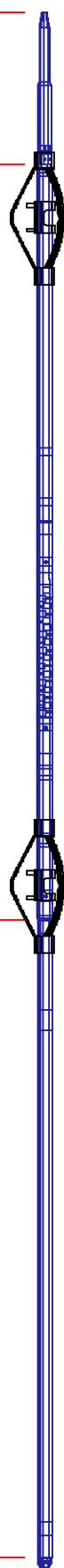
Diameter : 2.75"  
Length : 11.17'  
Weight : 126 lbs  
Series : 1426XA  
Mnemonic : RAL  
Measure Point: 4.21': NEAR RCVR  
Measure Point: 3.25': FAR RCVR

## 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"



23.02'

NEAR RCVR 13.81'


FAR RCVR 12.85'

CCL 8.65'

GR 6.79'

NEU 1.40'

0.00'

	COMPANY	WPX ENERGY ROCKY MTN LLC		FILE NO:	
	WELL	FEDERAL PA 31-27			US093869
	FIELD	PARACHUTE		API NO:	
	COUNTY	GARFIELD	STATE	CO	05045222420000
LOCATION:		ELEVATIONS:		S27 T6S R95W	
SHL: 2852' FNL; 657' FEL		KB 5882 FT		PAD: DOE 2-W-27	
BHL: 912' FNL; 1926' FEL		DF		RIG: NABORS 576	
SEC 27 TWP 6S RGE 95W		GL 5856 FT			
		DATE		10-Jan-2015	

