



FILE NO: US091647	COMPANY WPX ENERGY ROCKY MTN LLC
API NO: 05045223390000	WELL FEDERAL PA 444-27
	FIELD PARACHUTE
	COUNTY GARFIELD
	STATE CO
Ver. 3.87 S27 T6S R95W PAD: DOE 2-W-27 NABORS 576	LOCATION: SHL: 2405' FNL: 649' FEL BHL: 1128' FSL: 1168' FEL SEC 27 TWP 6S RGE 95W
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	OTHER SERVICES RPM ELEVATIONS: KB 5882 FT DF GL 5856 FT
GL KB KB	ELEVATION 5856 FT 26 FT ABOVE P.D.

DATE		07-Jan-2015			
RUN	TRIP	1	1		
SERVICE ORDER		US091647			
DEPTH DRILLER		8571 FT			
DEPTH LOGGER		8474 FT			
BOTTOM LOGGED INTERVAL		8464 FT			
TOP LOGGED INTERVAL		26 FT			
TIME STARTED		08:00			
TIME FINISHED		11:00			
OPERATOR RIG TIME		3.0			
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		64 F/MN			
MAX. RECORDED TEMP.		240 DEGF			
REFERENCE LOG		SURFACE OH LOG			
REFERENCE LOG DATE		10/2/2014			
EQUIP. NO.	LOCATION	6670	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	2928 FT
8.75 IN	2928 FT	8571 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	2928 FT
4.5 IN	11.6 LB/F	P-110	0 FT	8571 FT

## REMARKS

RUN 1 TRIP 1: All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR surface log dated 02/OCT/2014 at the client's request.

The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray reference.

AMOUNT OF LINEAR SHIFT: -3.0 FT

Logged with zero PSI at wellhead.

BHT = 239 DEGREES

SJ = 5326' TO 5348'

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES

CREW: BAUGHMAN/HOLLER/SMITH

#### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10154957	CENTRALIZED
1	1	GR	2459XA	10124121	CENTRALIZED

### MAIN LOG 5"/100FT SCALE

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

Updates: 1 Patches: 4

Plotted: Fri Jan 9 09:35:24 2015

#### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH091647/n012e02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 34.250 ft BOTTOM DEPTH: 8486.192 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*)	140	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	126	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

#### CURVE DESCRIPTION REPORT

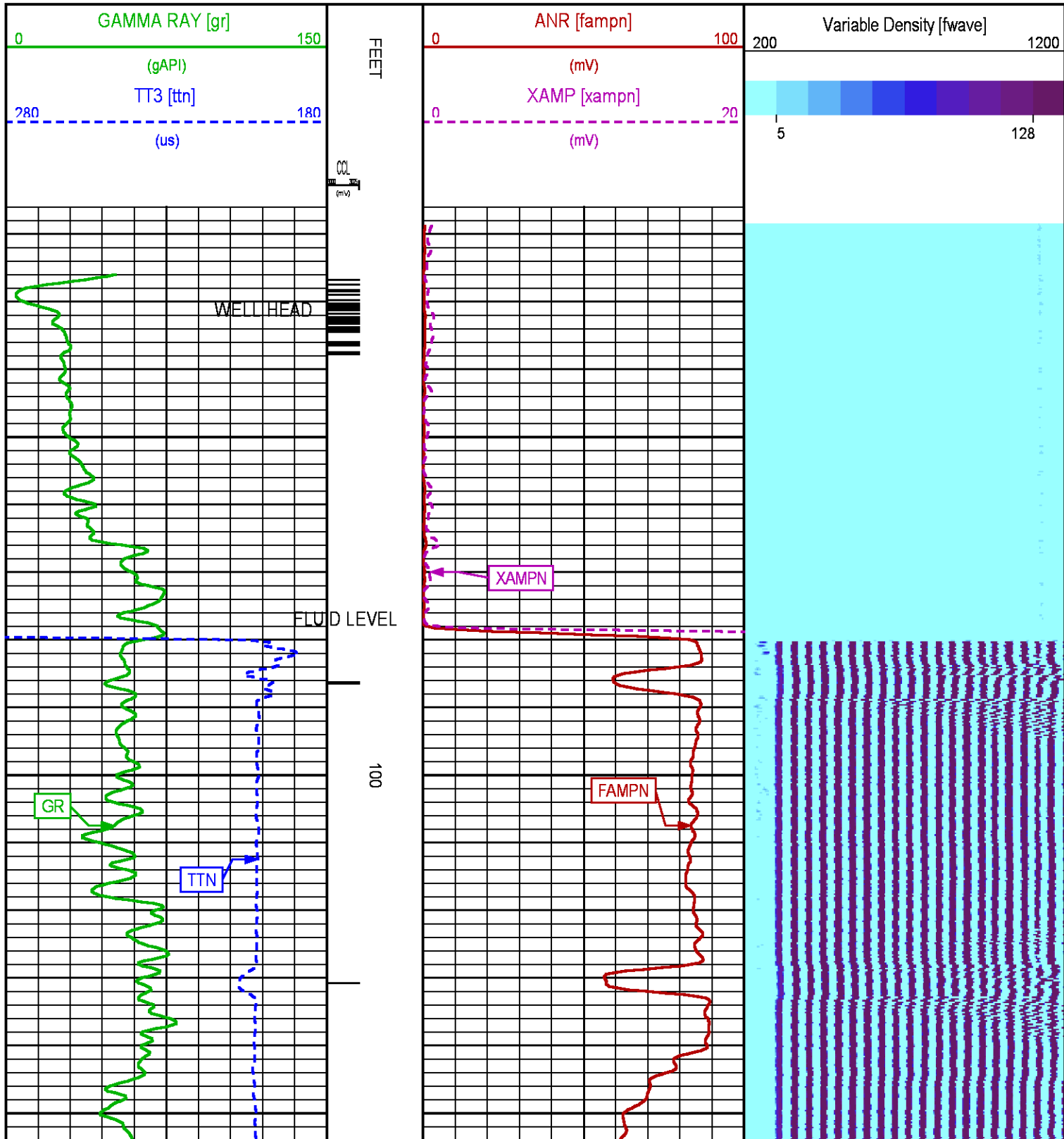
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 7 09:03:42 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 7 09:03:42 2015	FAR WAVE FORM
F1:GR	Jan 7 09:03:42 2015	GAMMA RAY
F1:TTN	Jan 7 09:03:42 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

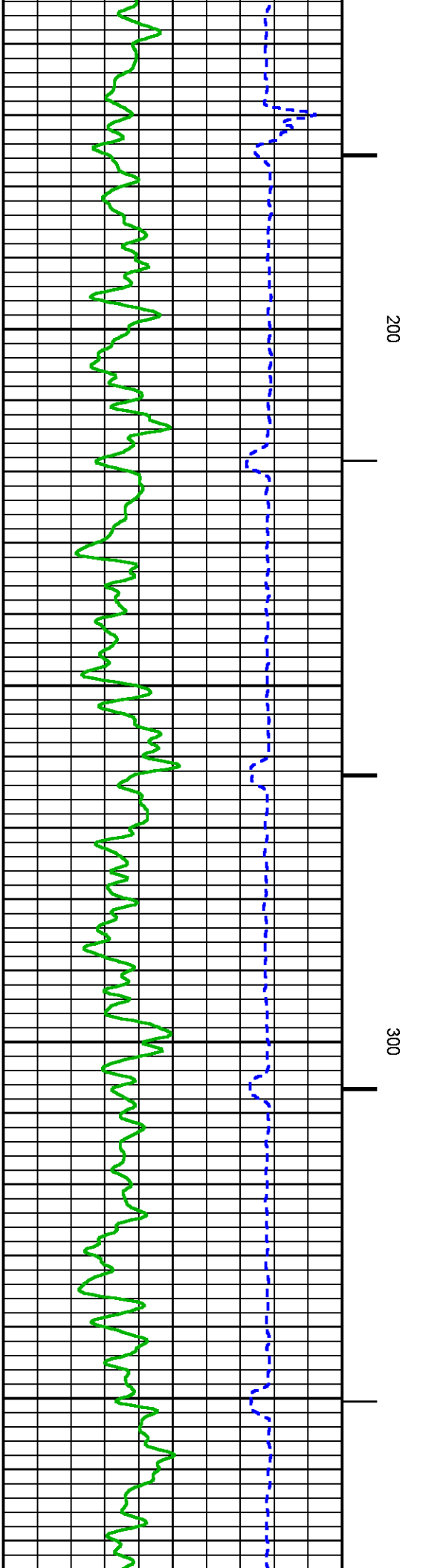
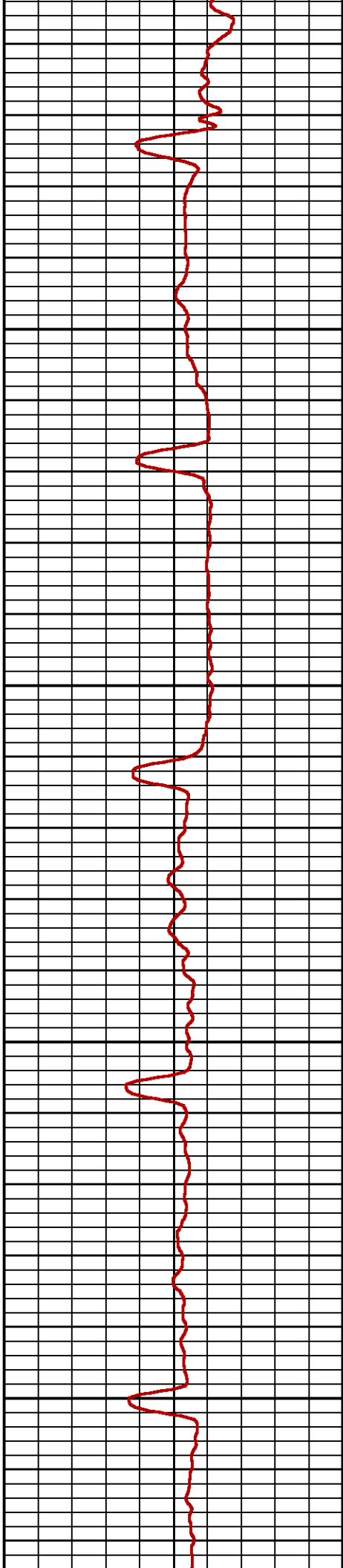
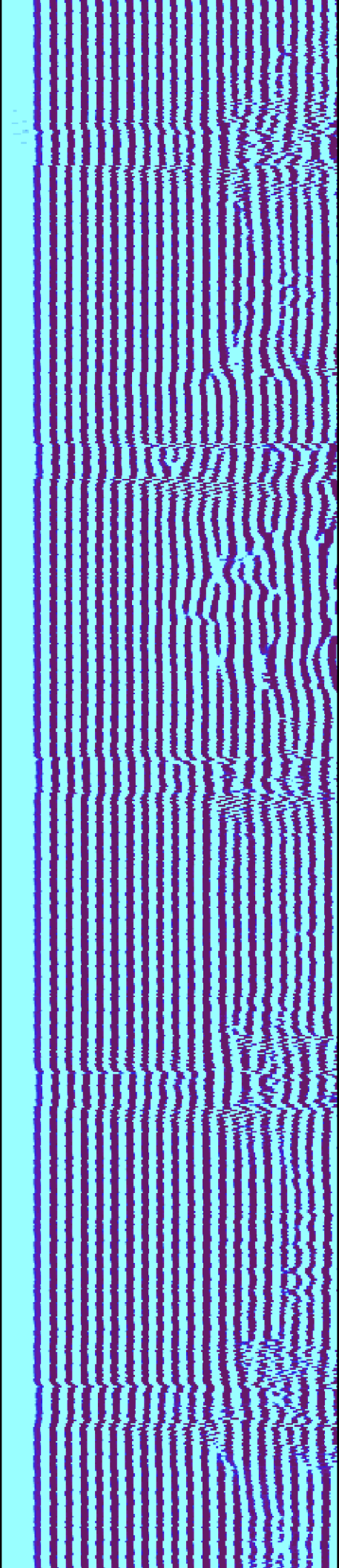
# CURVE MEASURE POINT OFFSET

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				

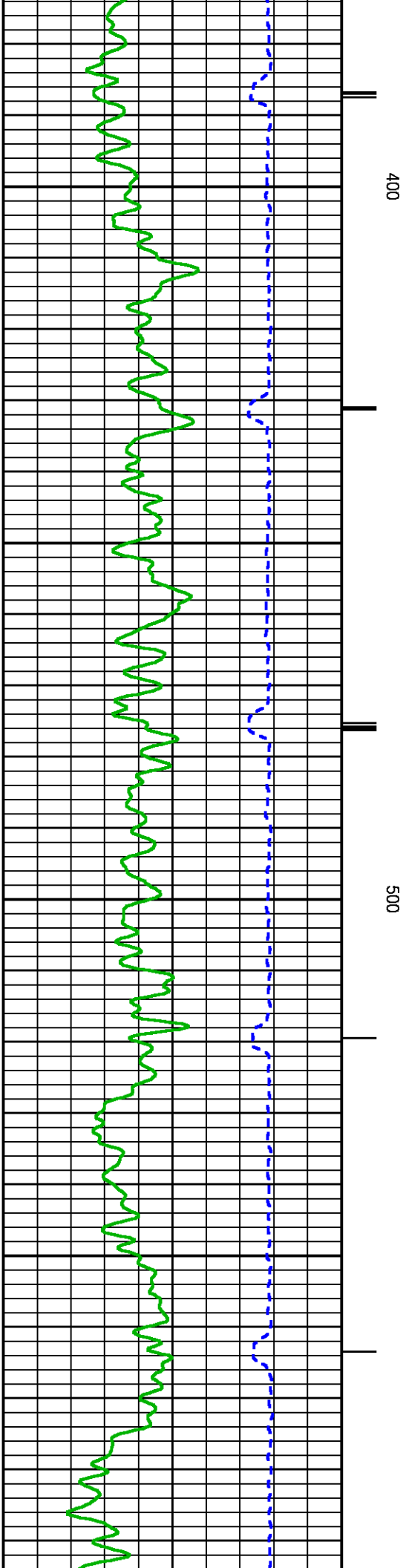
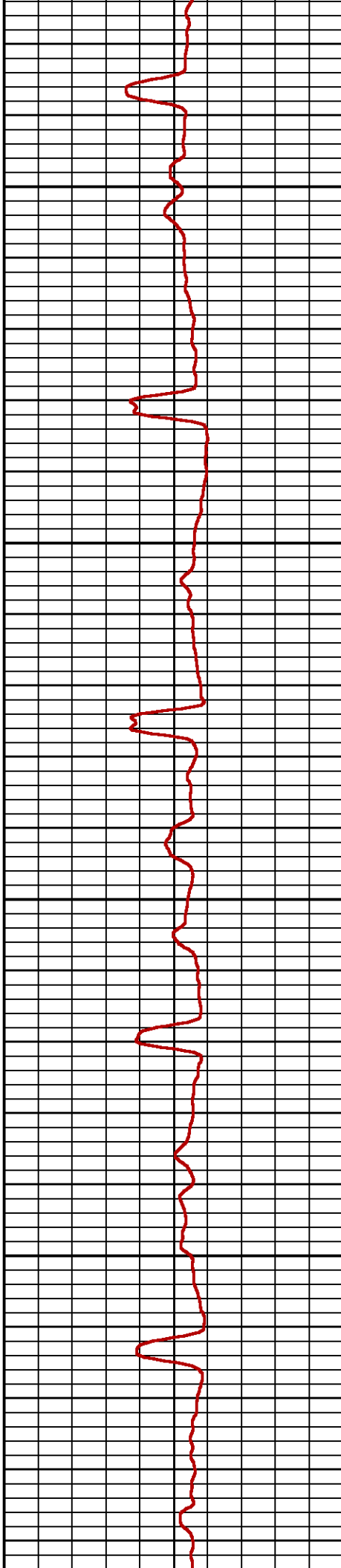
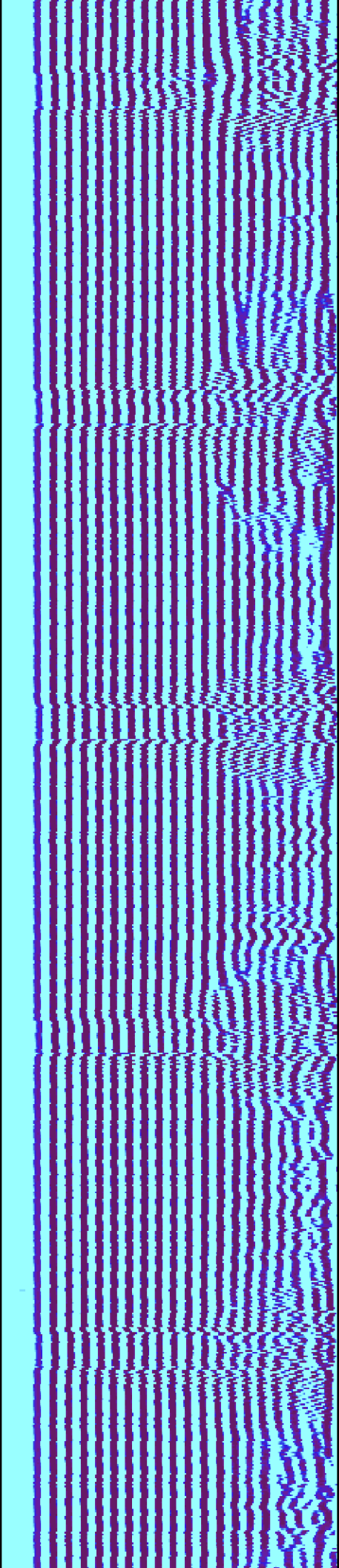
Presentation : HL6670:WPX\_CBL\_PRIMARY\_MAIN\_PRESENTATION.fvpdf [5"/100' Scale]  
 Plot Interval : 17.5 - 8487 Feet

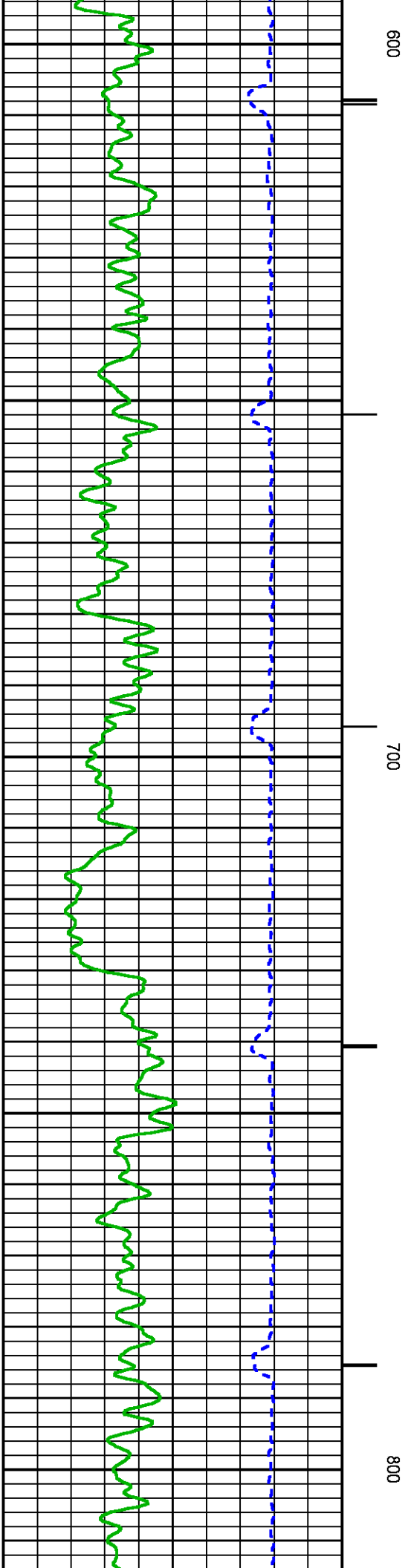
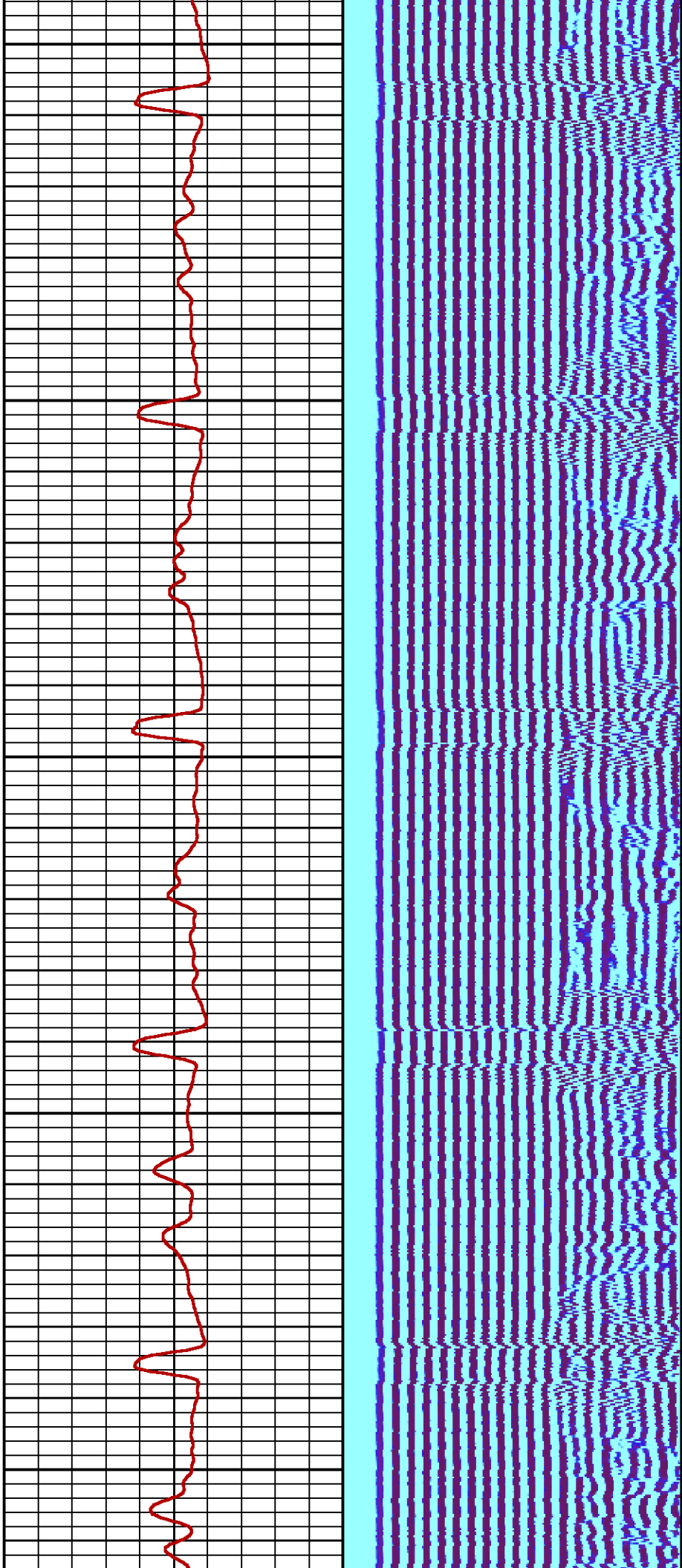
Data File 1 : F1 : HL6670:/dat1a/CH091647/MAIN\_2.xtf  
 Created On : Jan 7 09:03:42 2015  
 Company : WPX ENERGY ROCKY MTN LLC  
 Well : FEDERAL PA 444-27  
 Field : PARACHUTE  
 File Interval : 17.5 - 8487 Feet  
 OCT : n012e

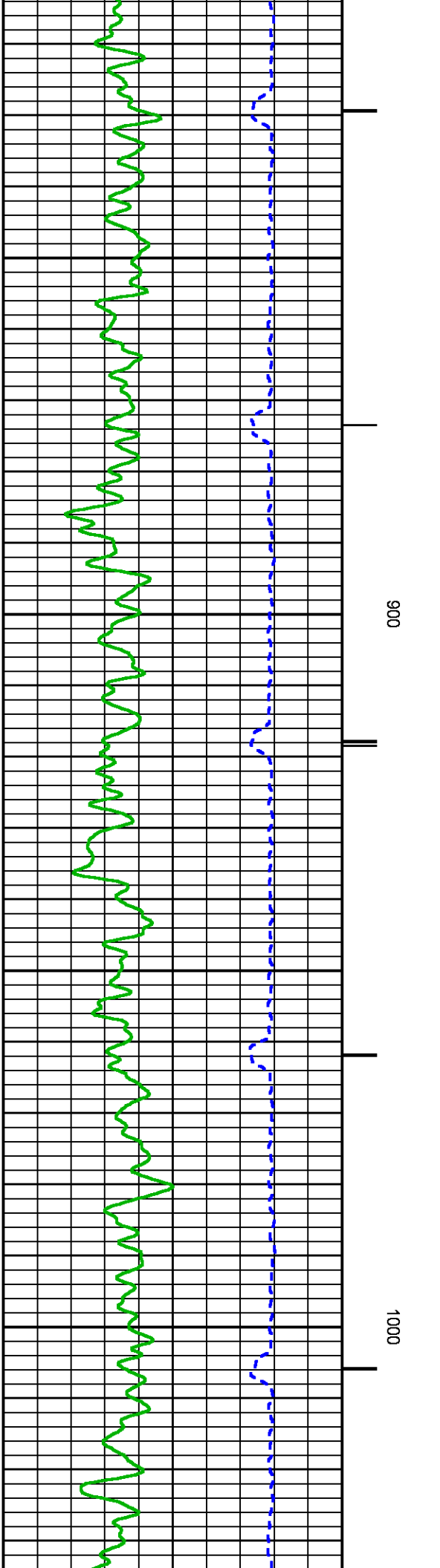
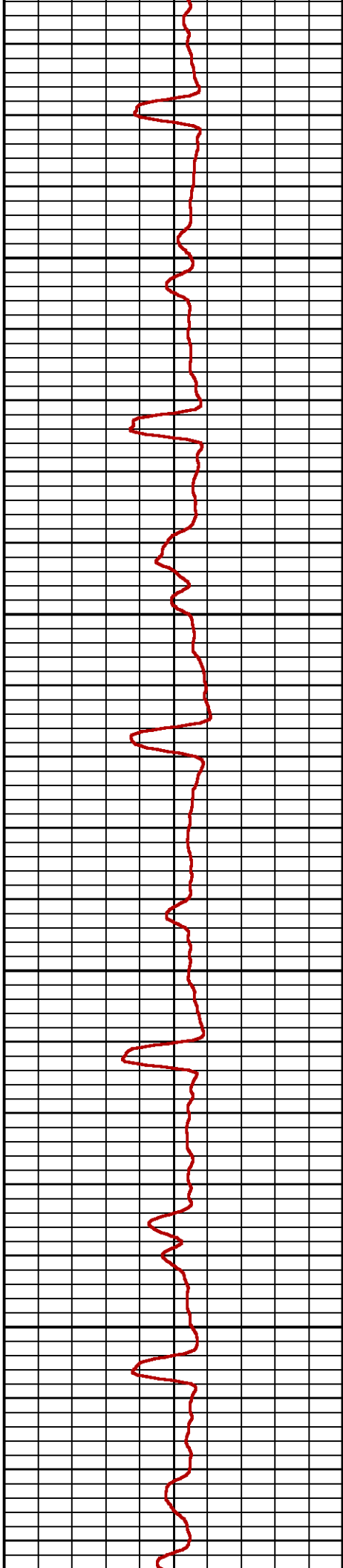
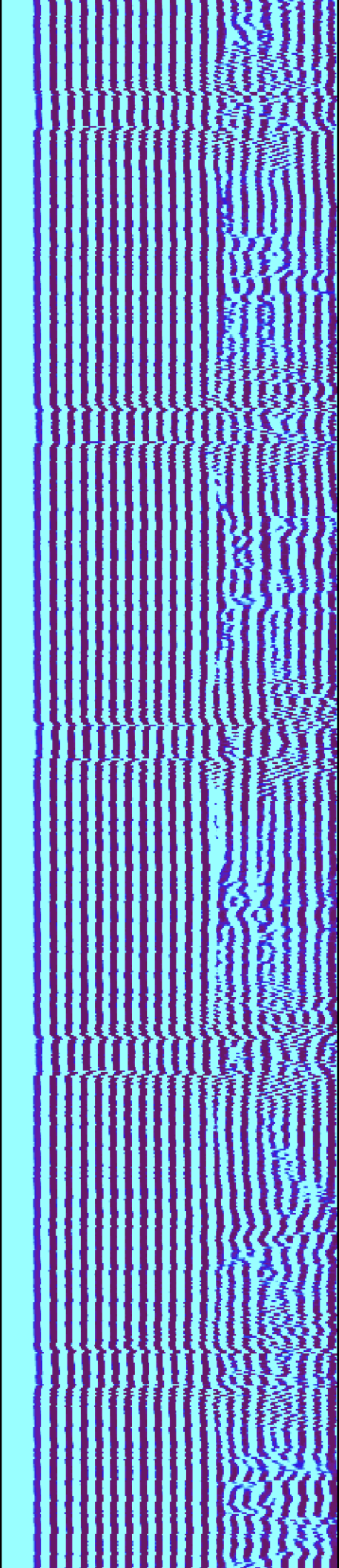


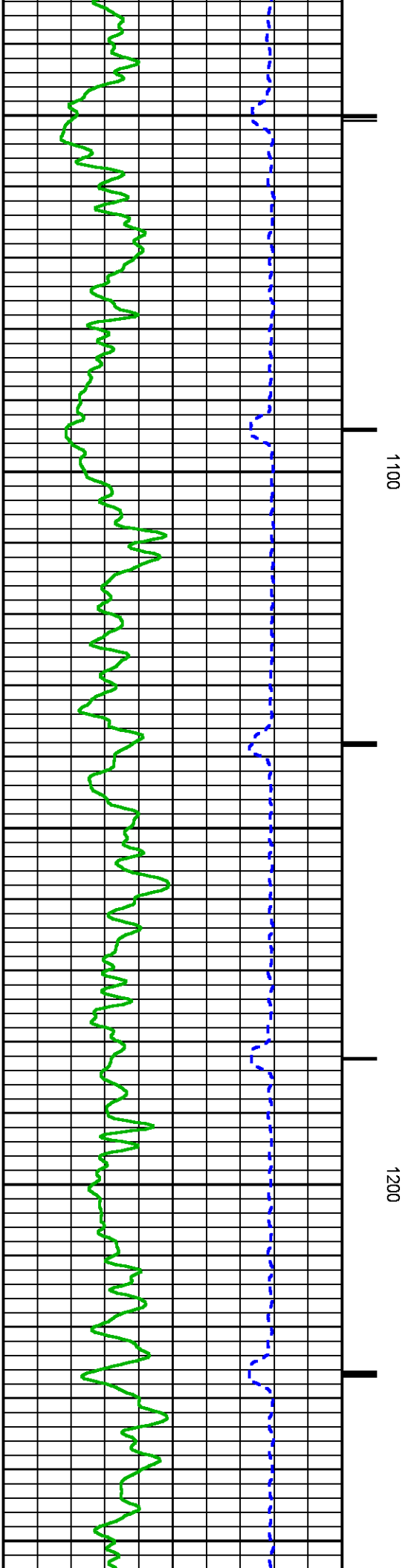
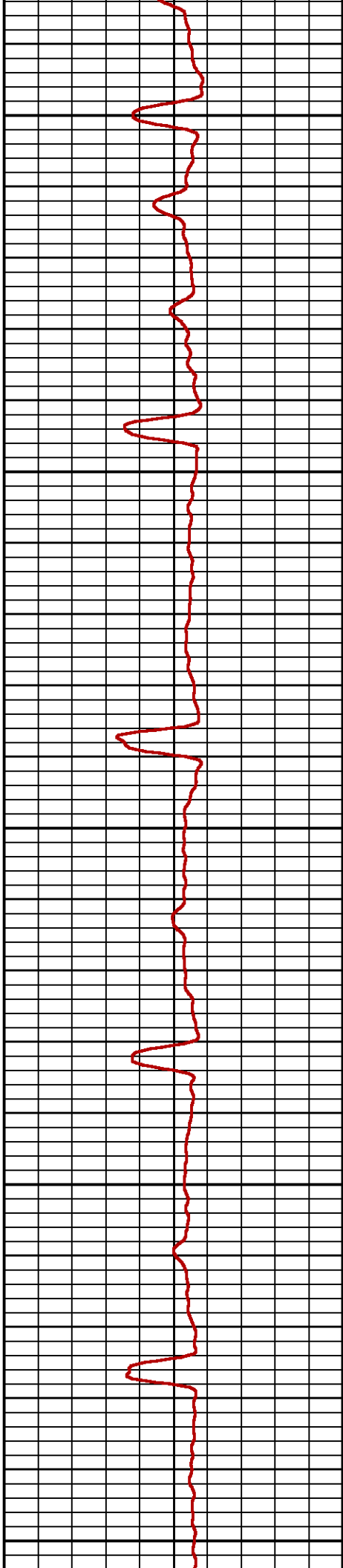
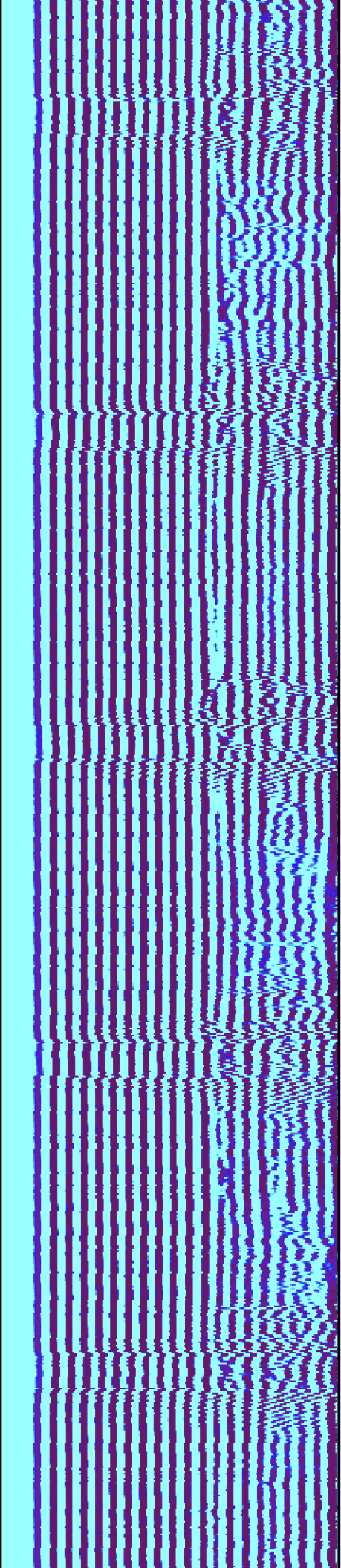




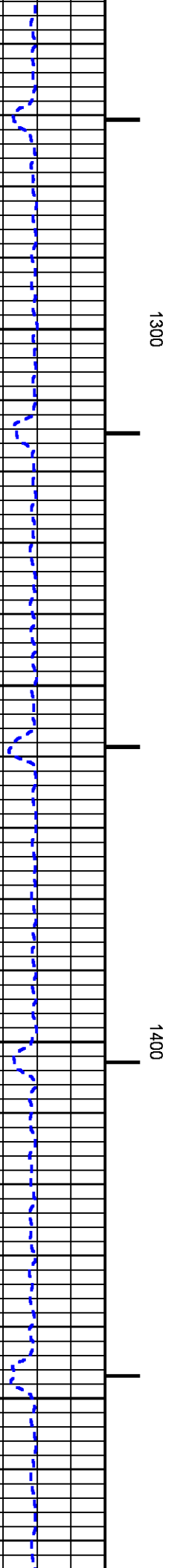
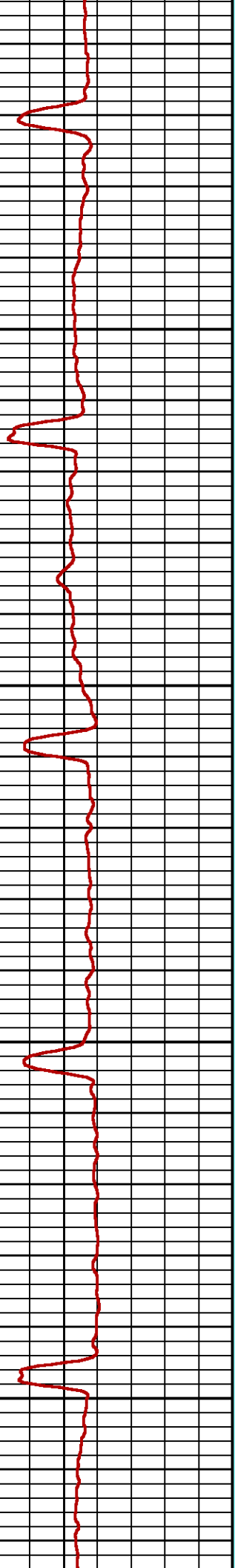
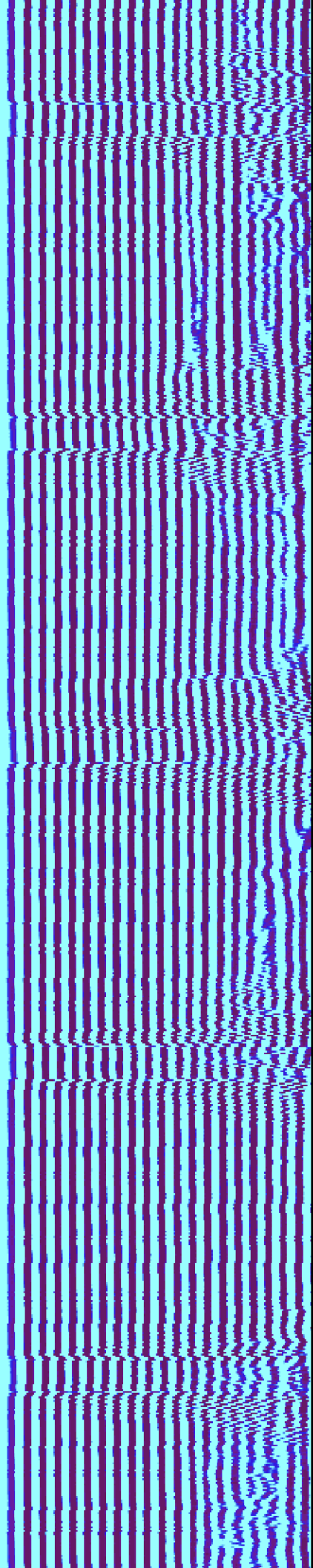


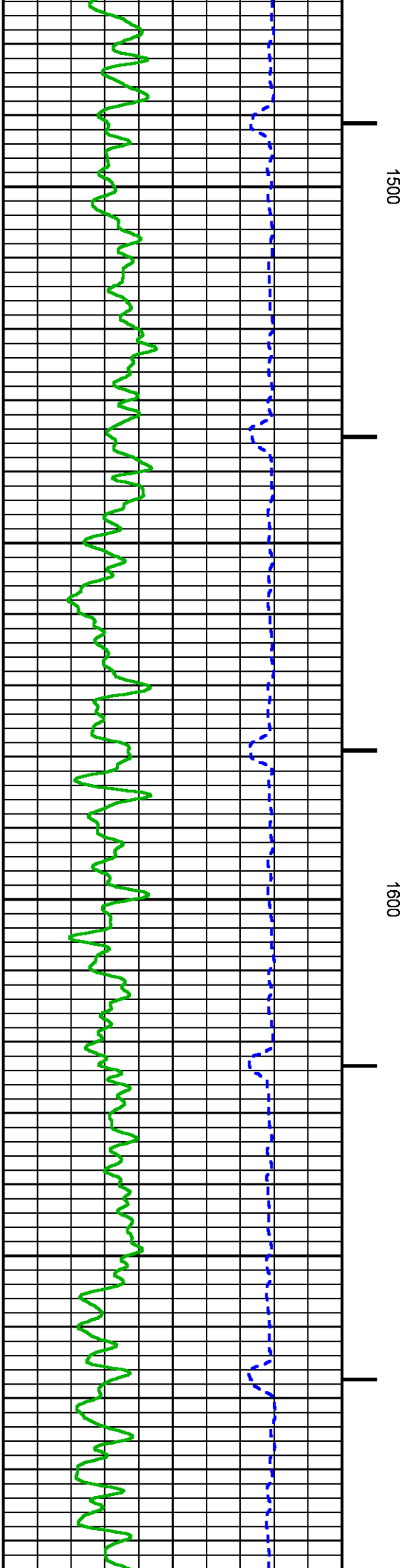
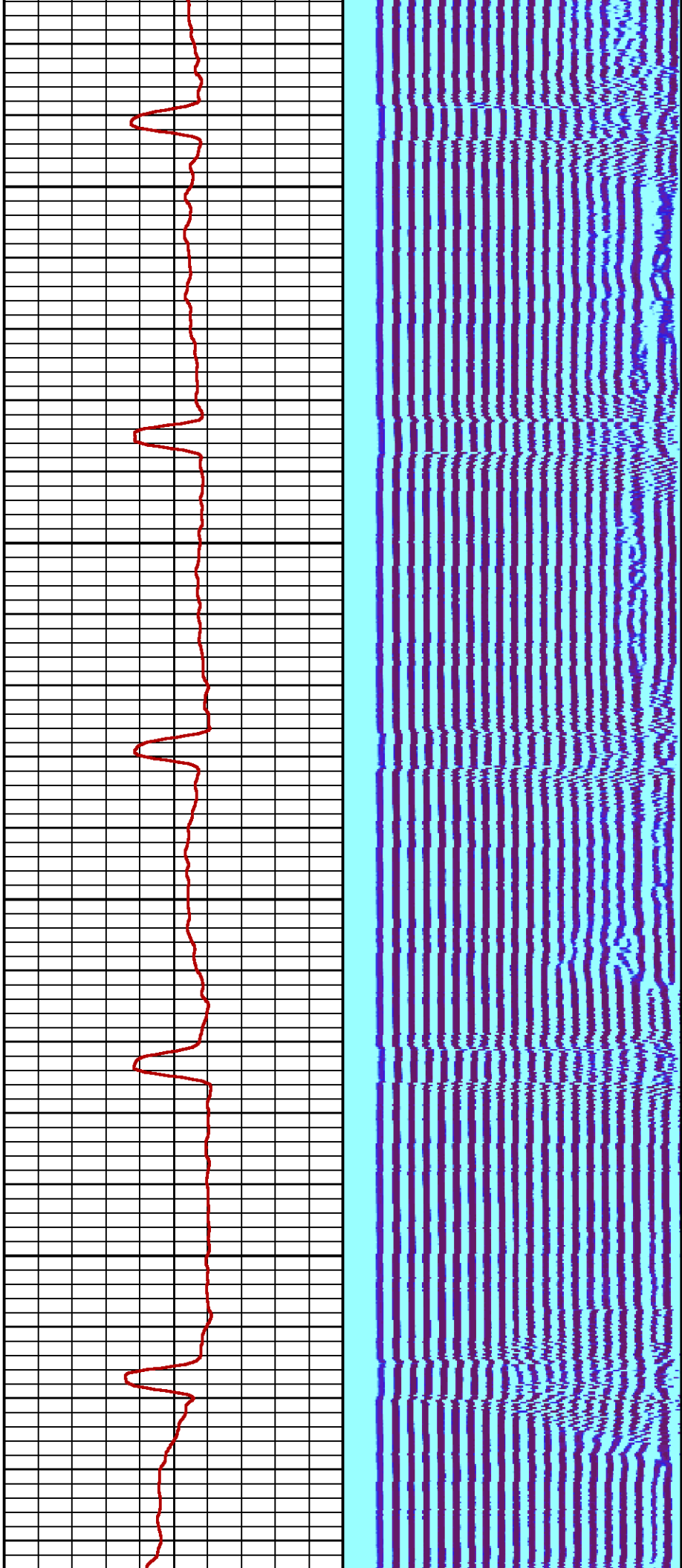


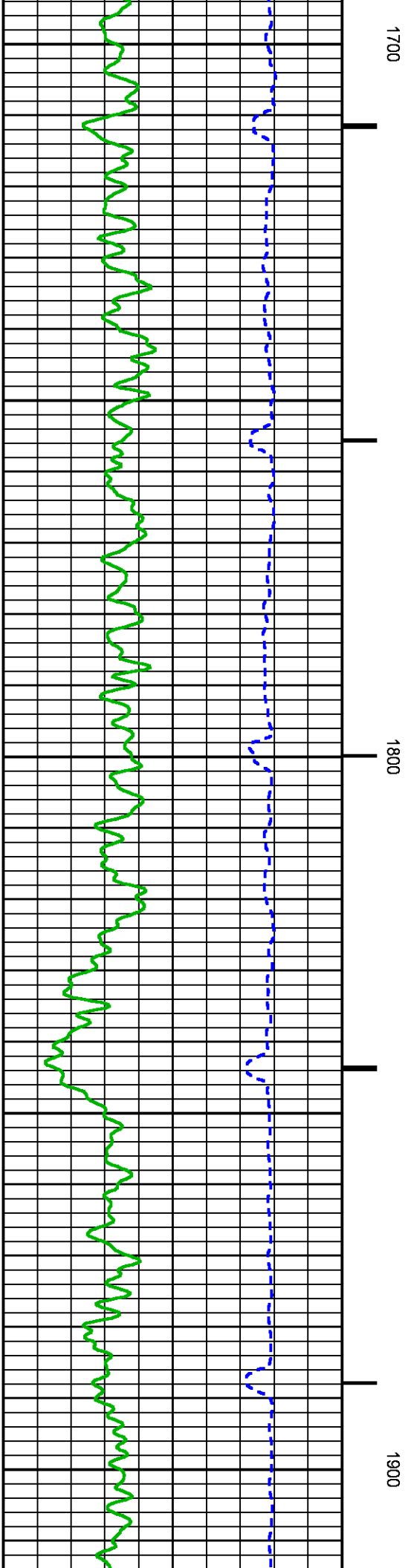
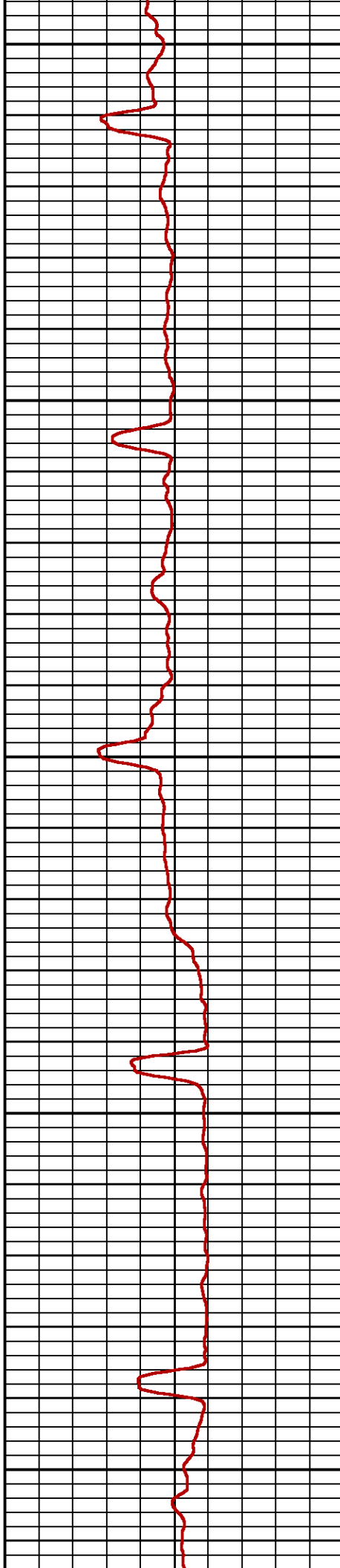
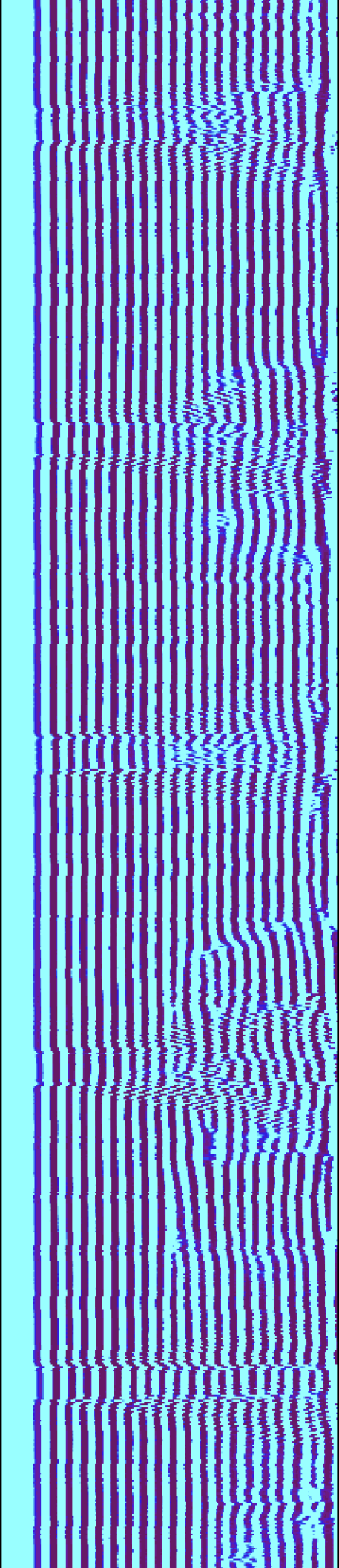




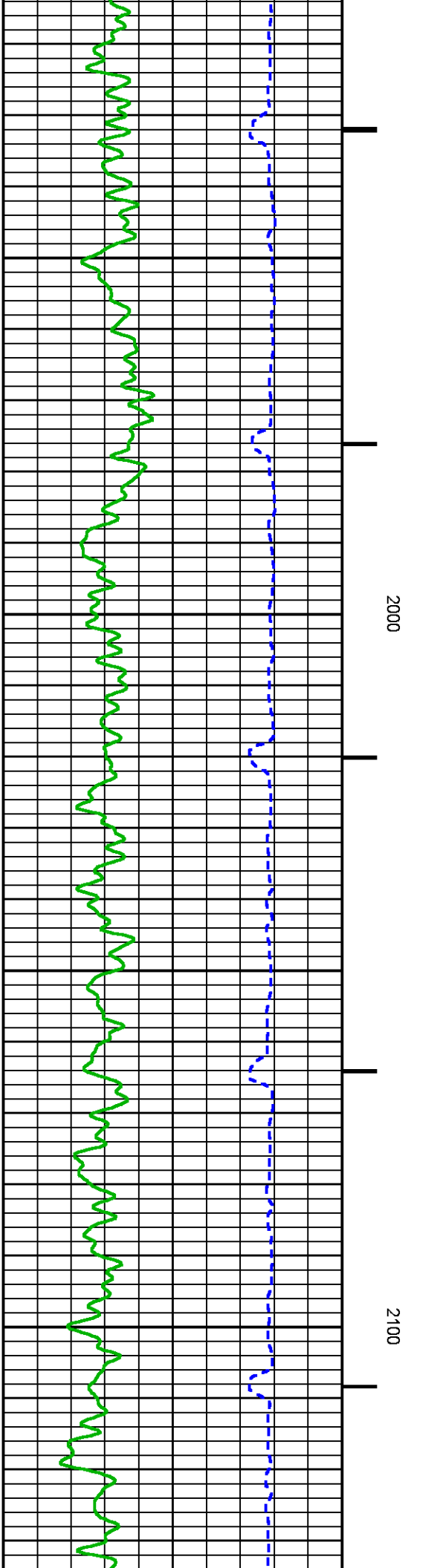
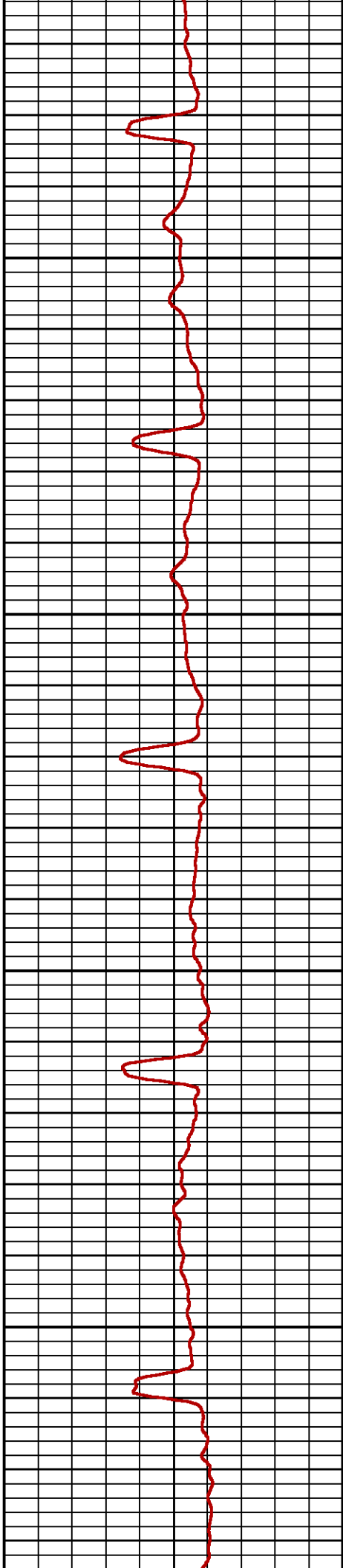
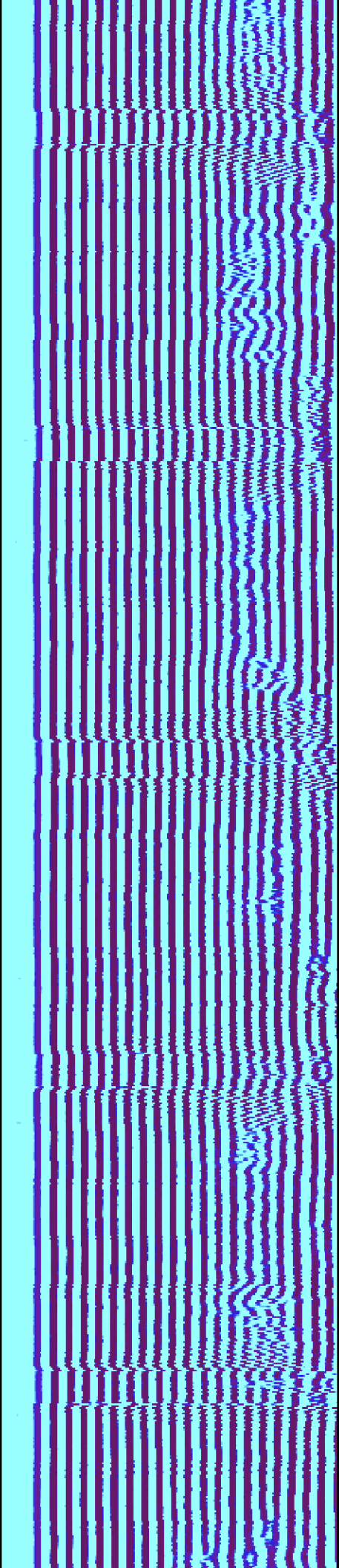


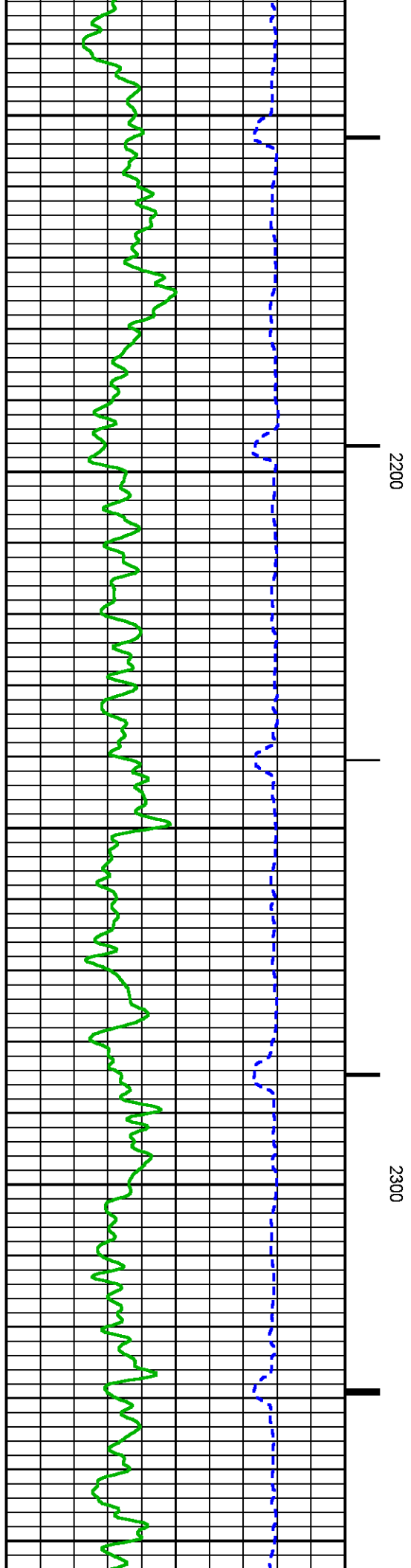
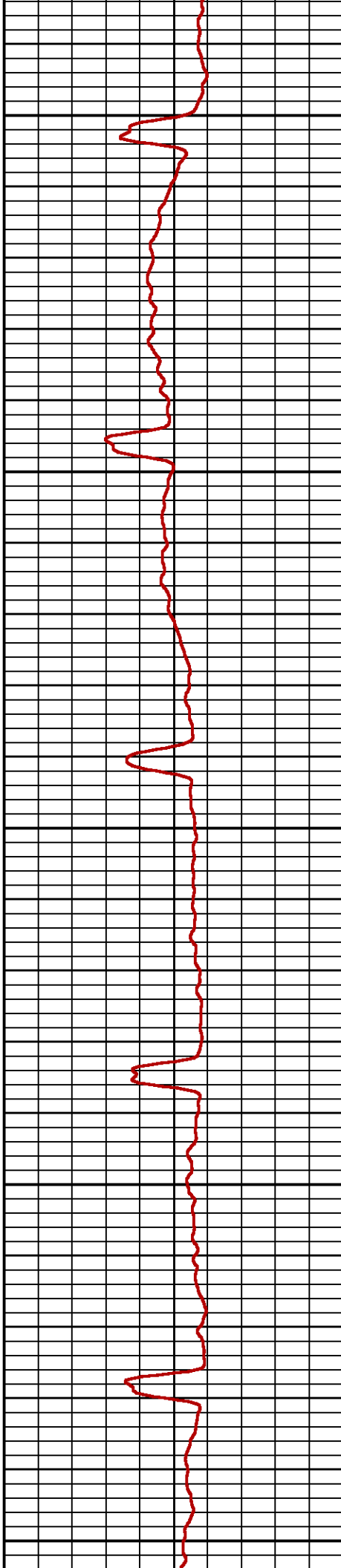
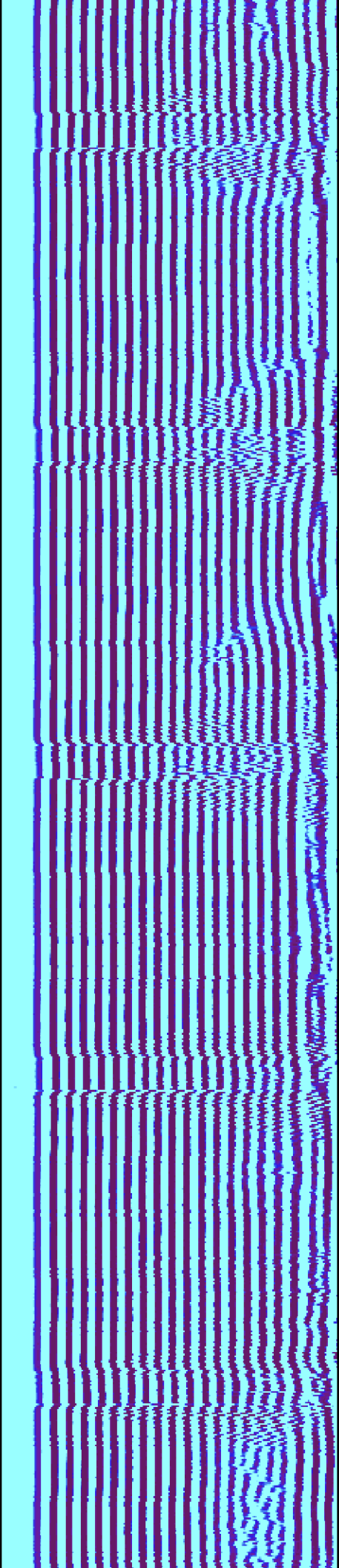


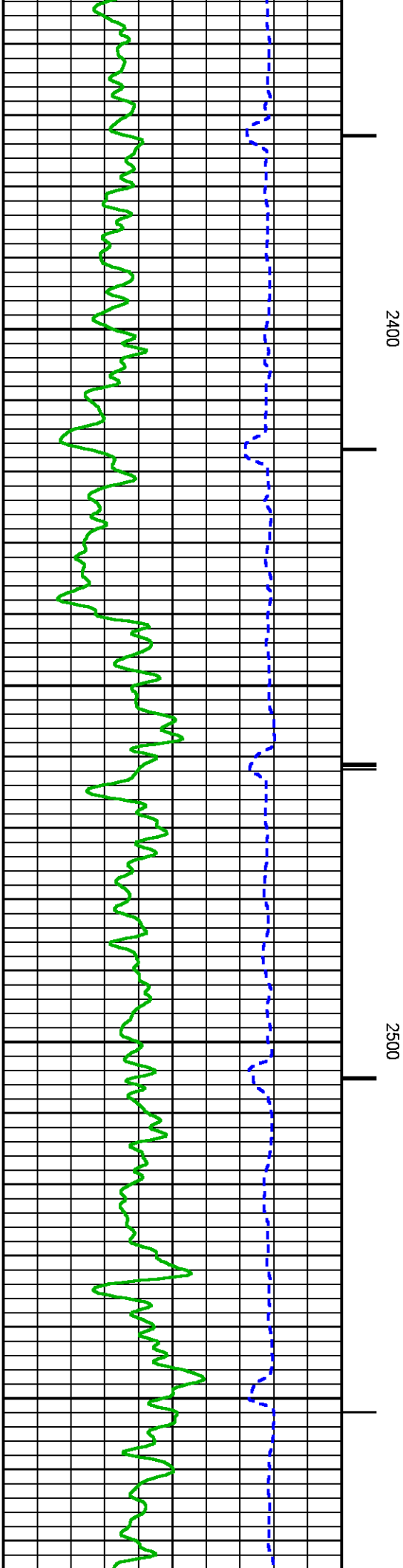
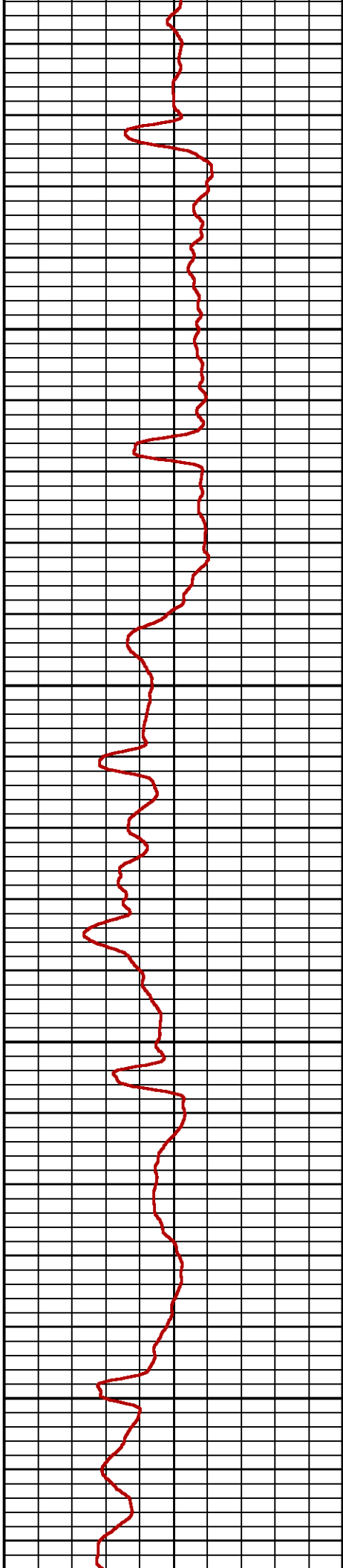
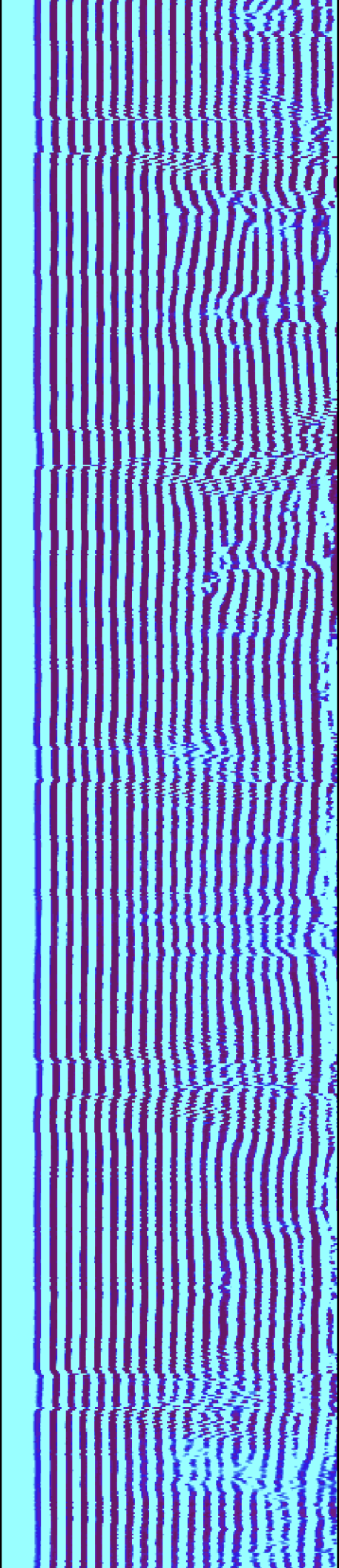


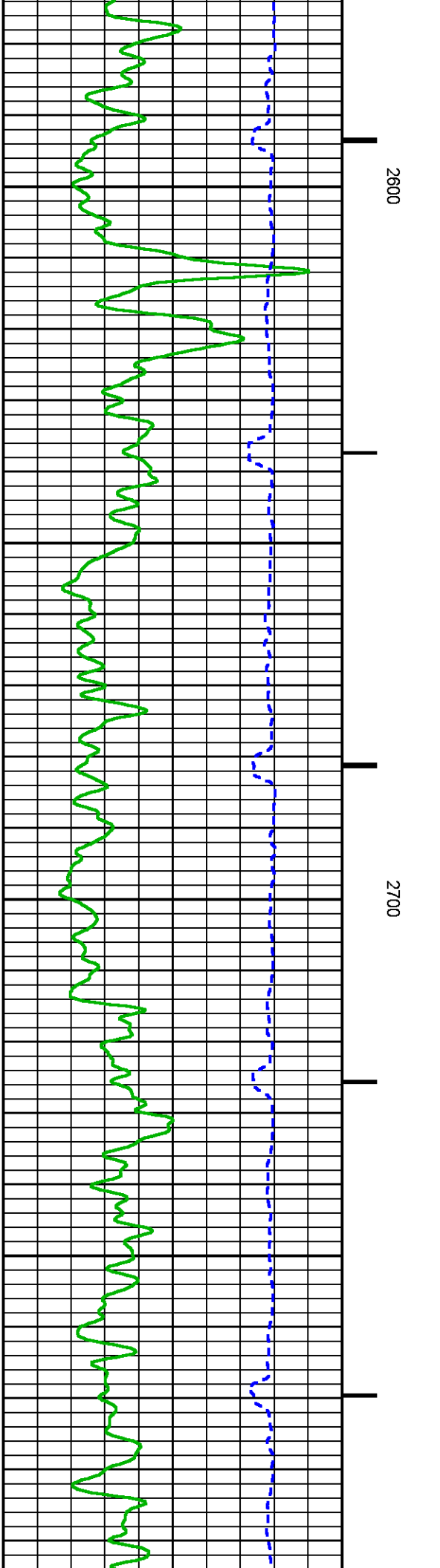
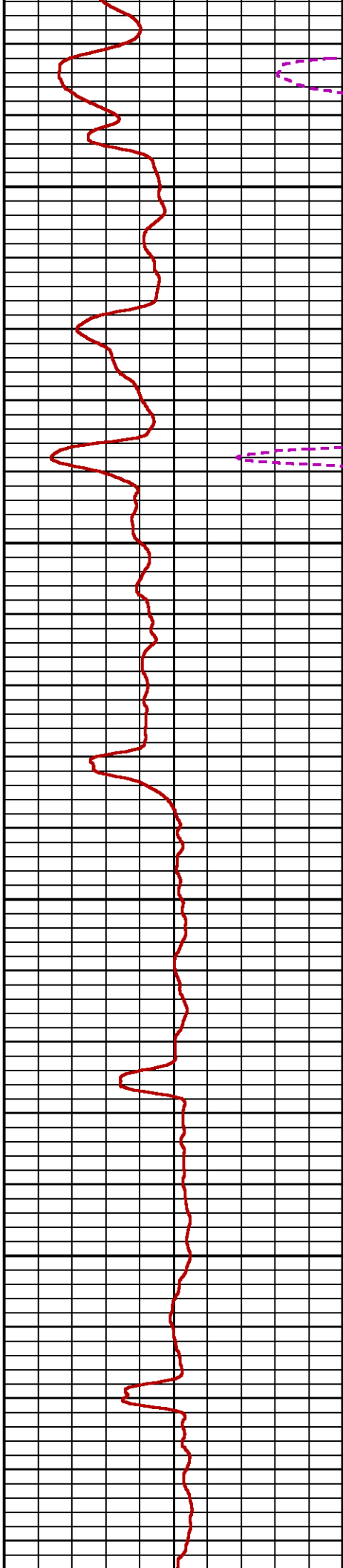
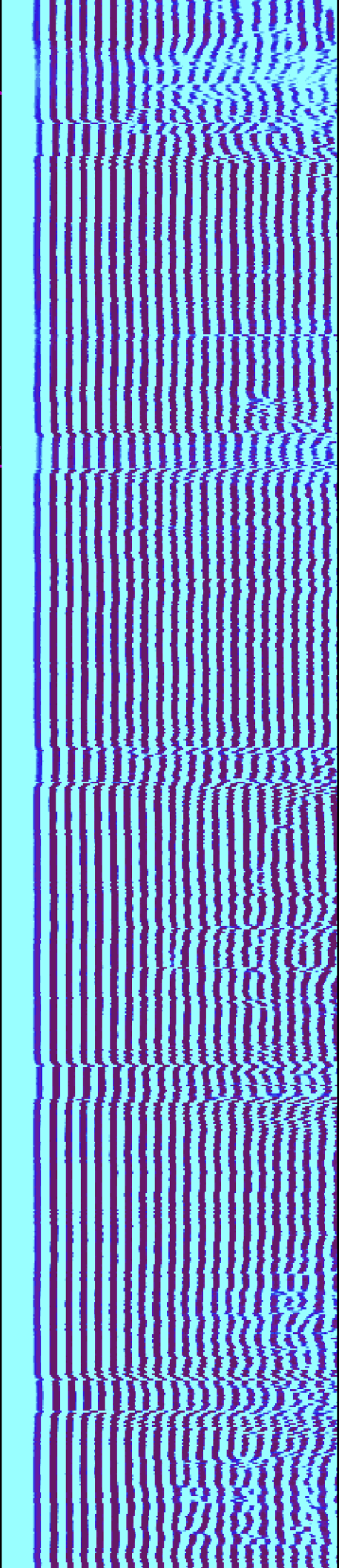




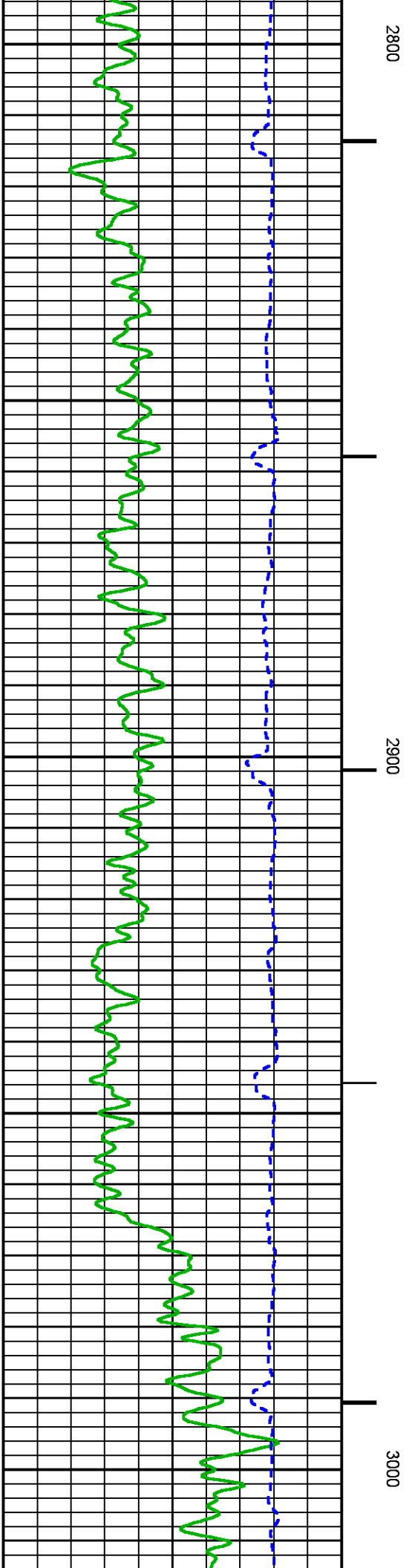
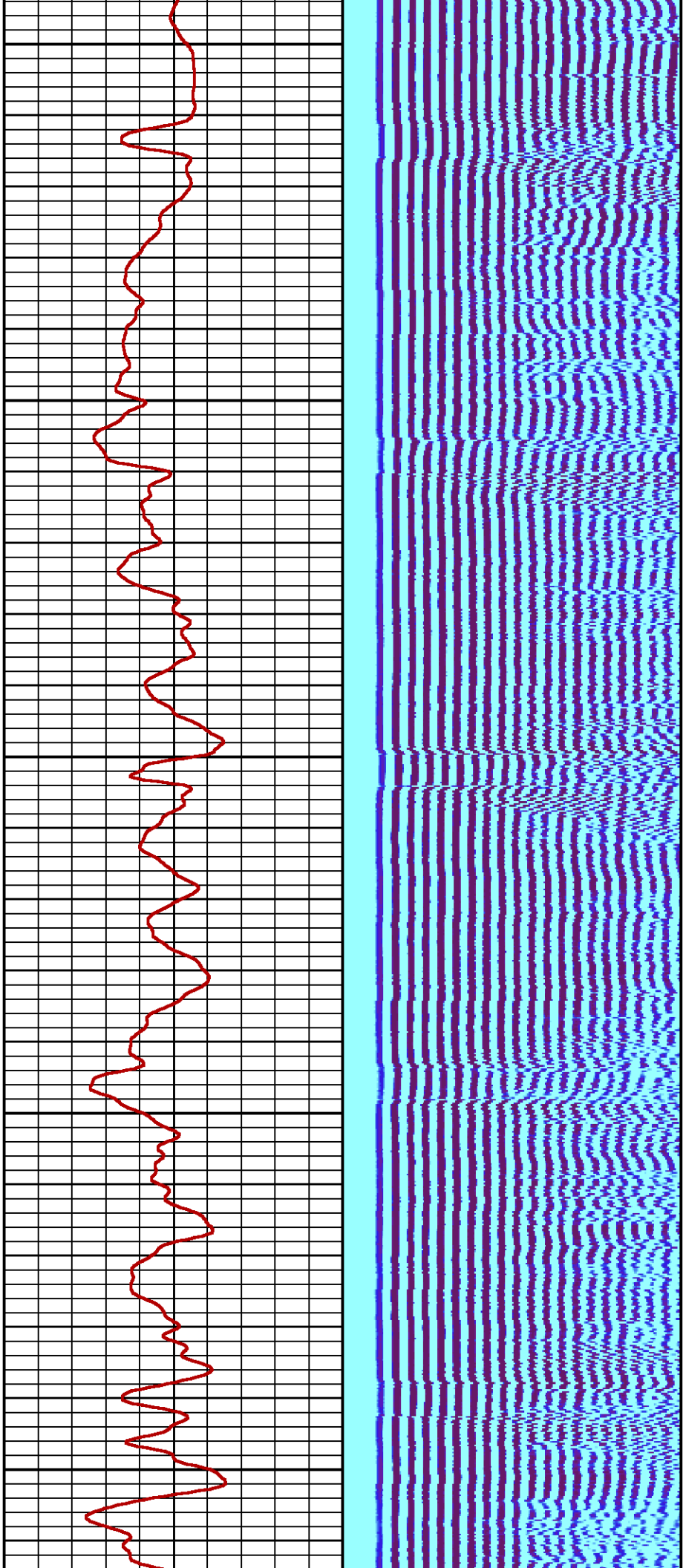


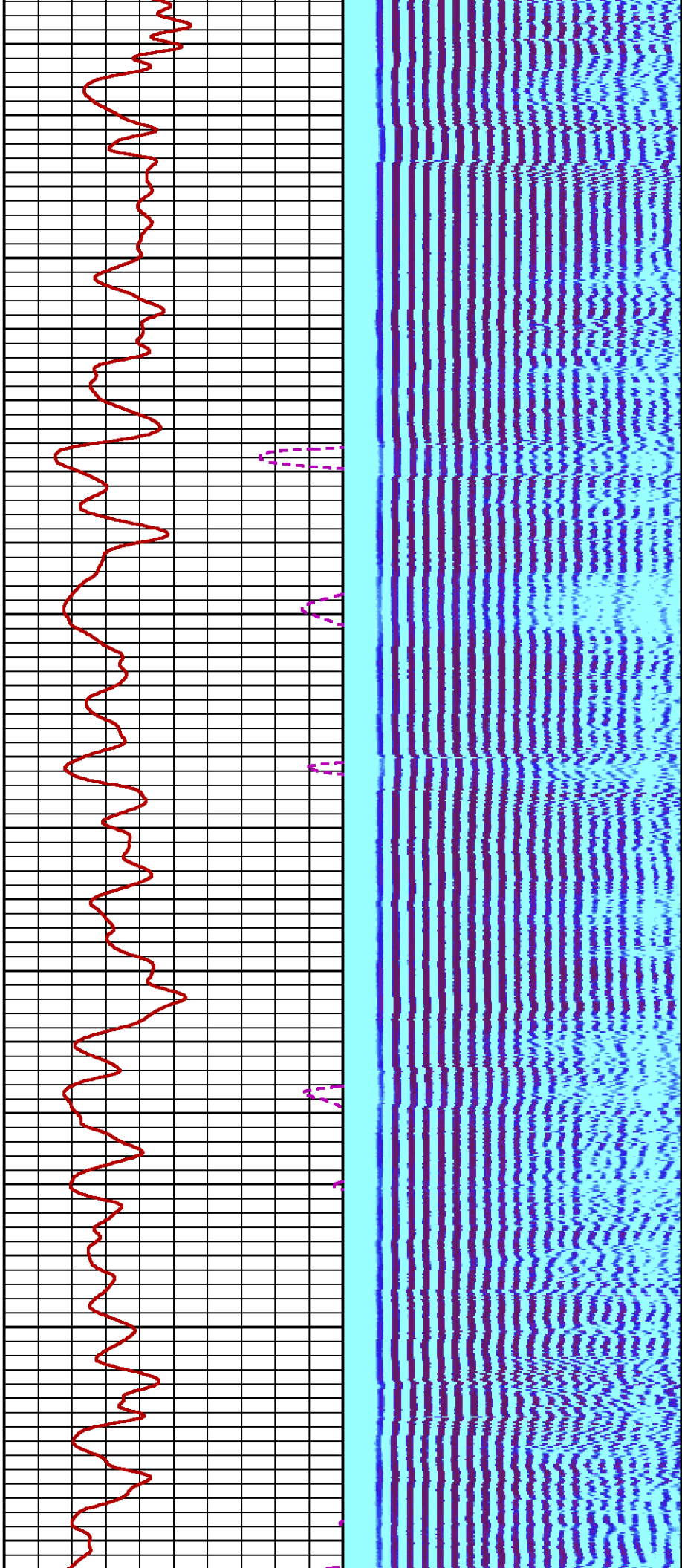






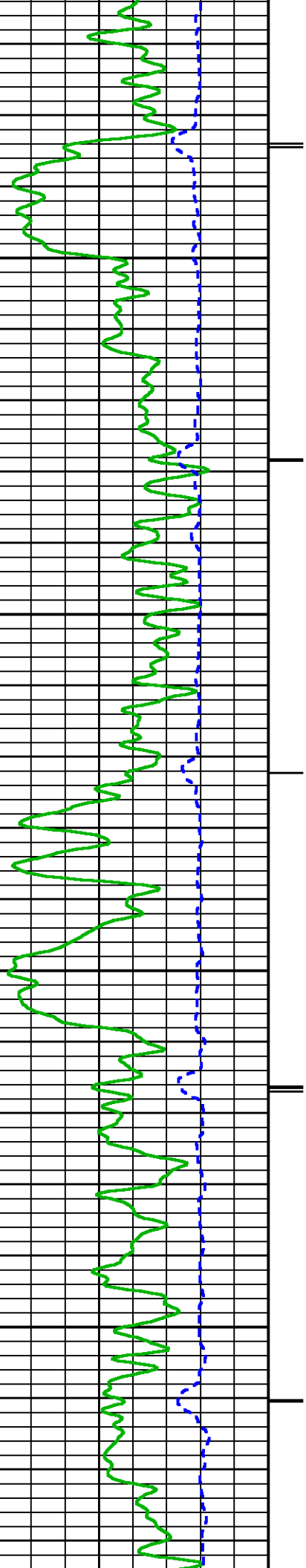


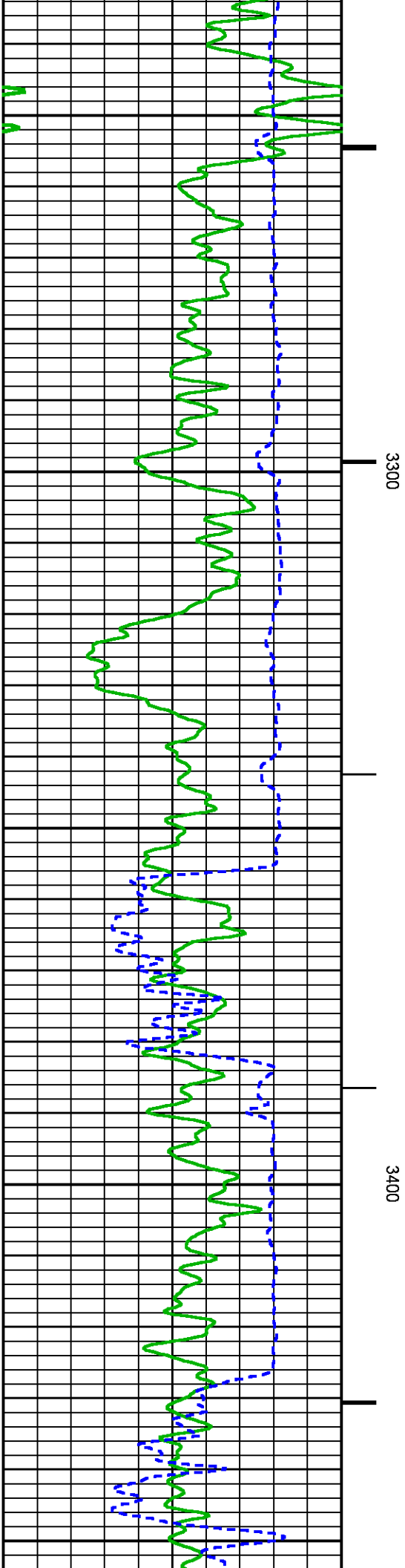
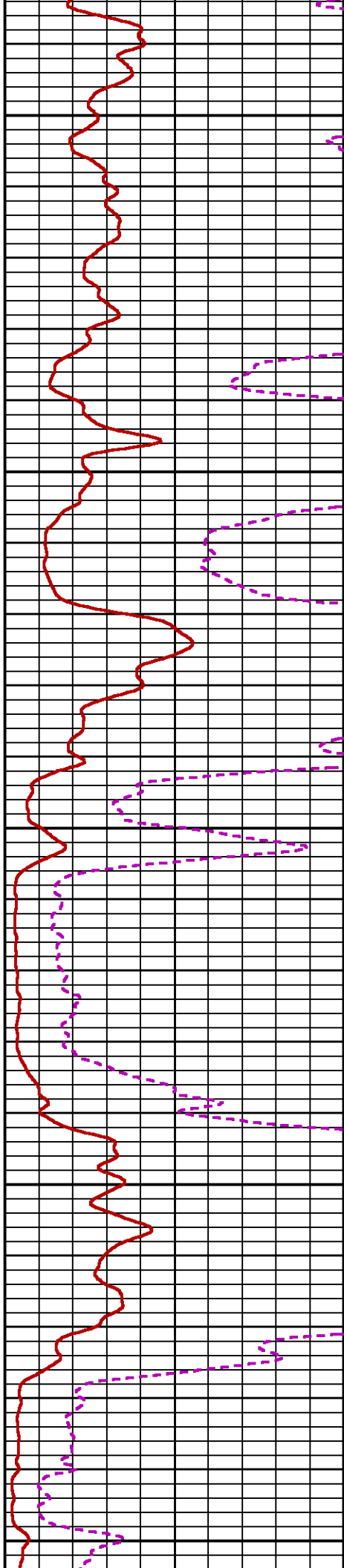
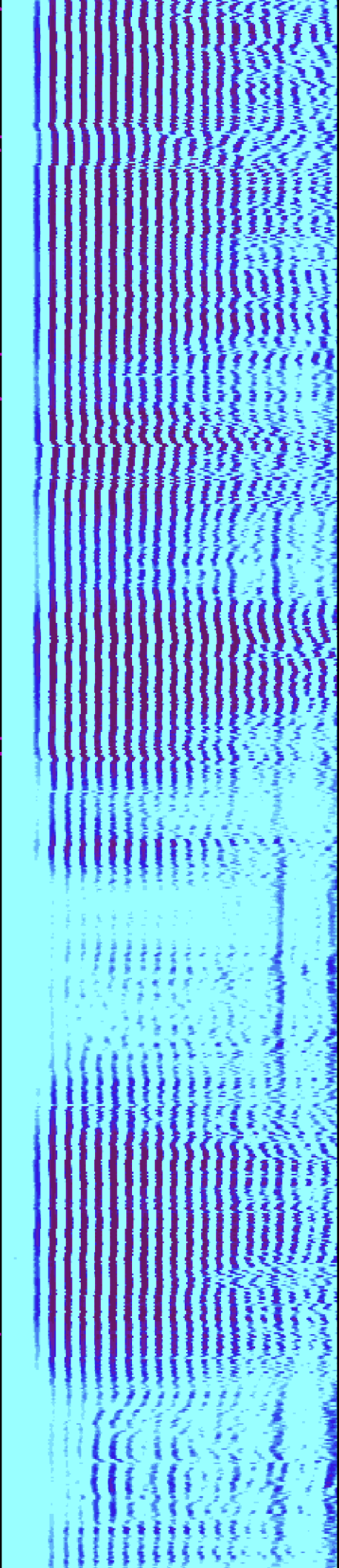




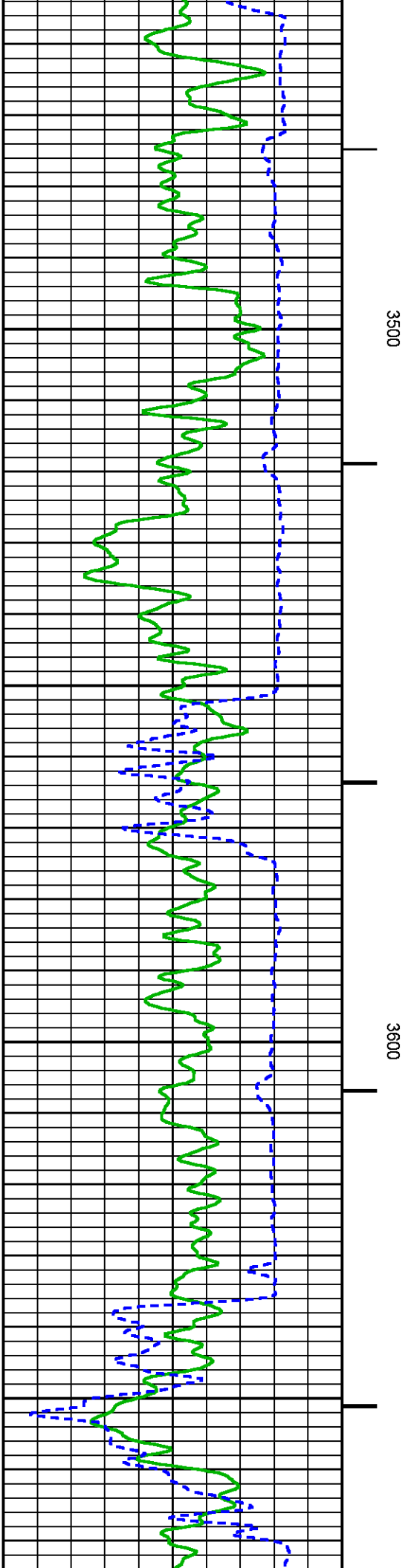
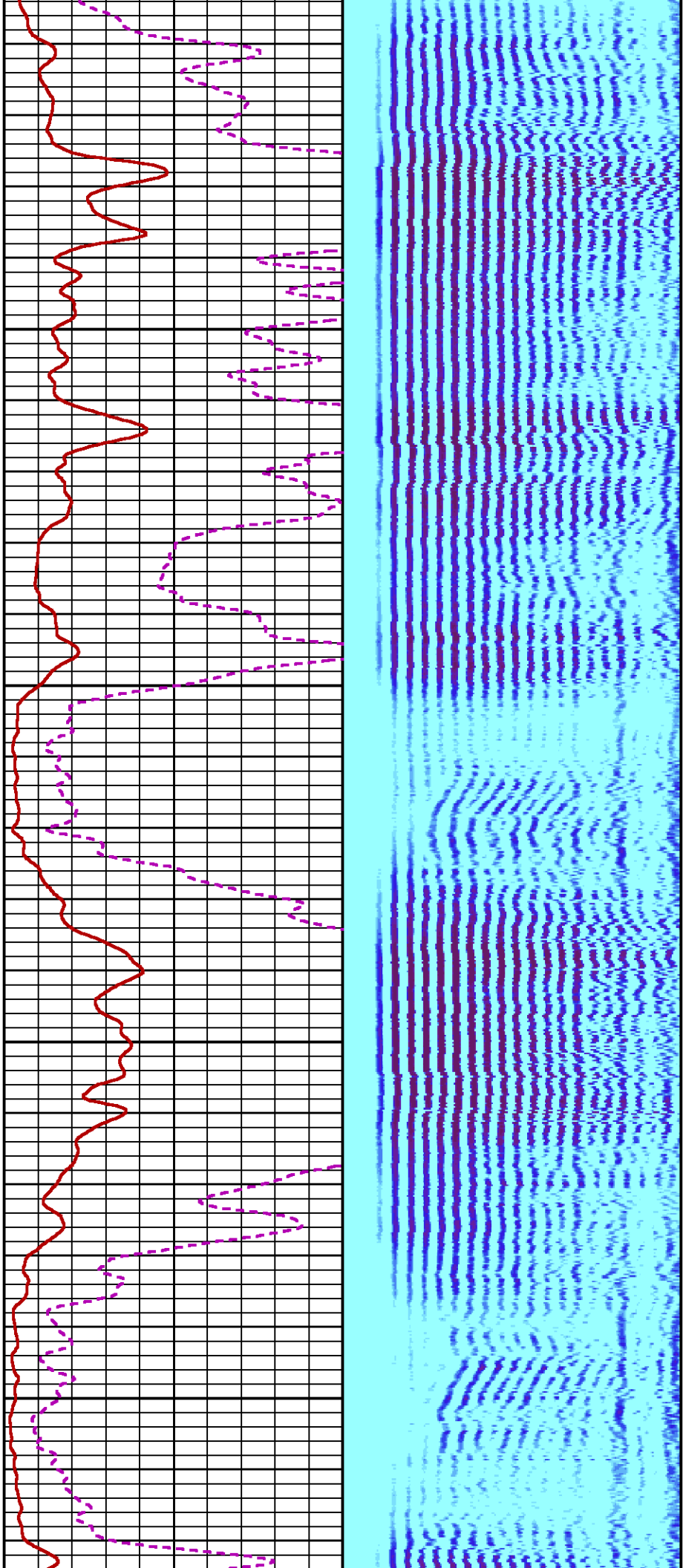
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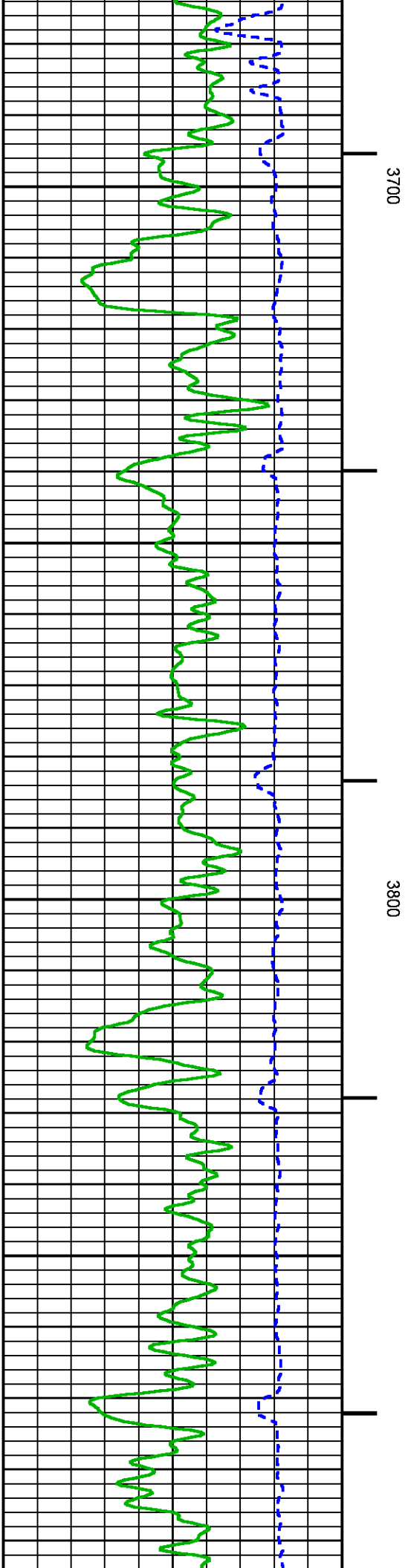
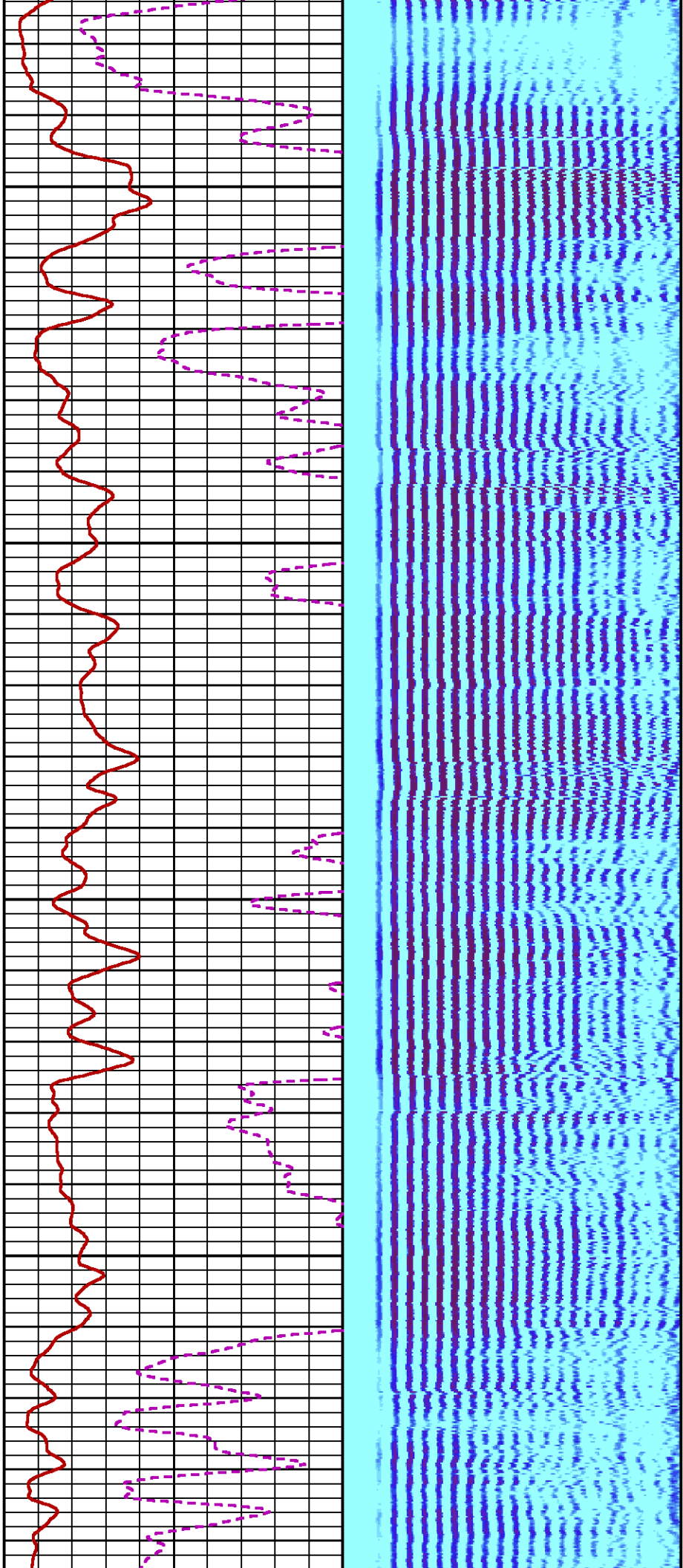
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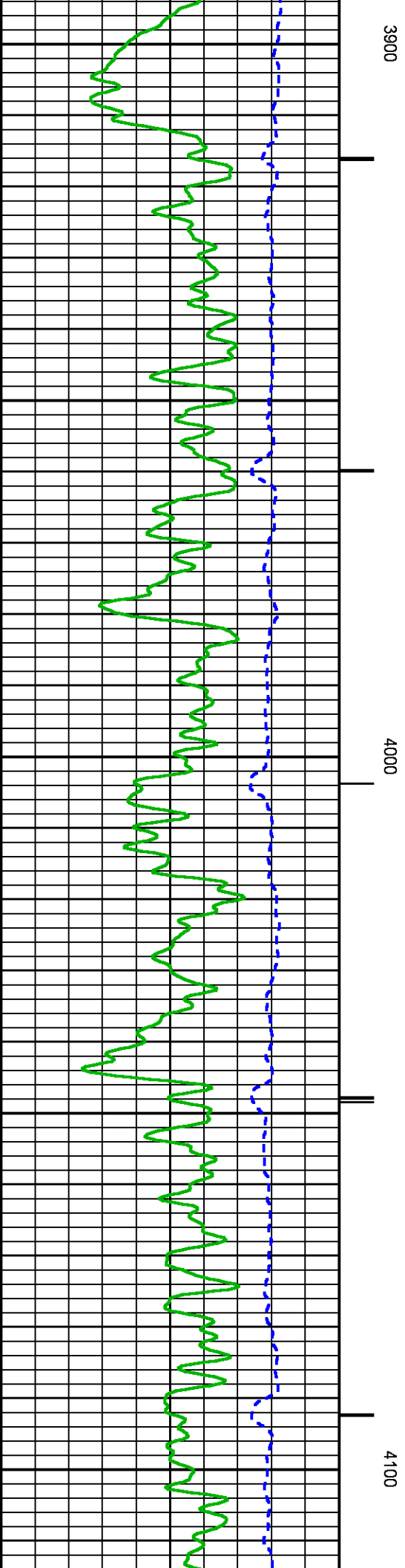
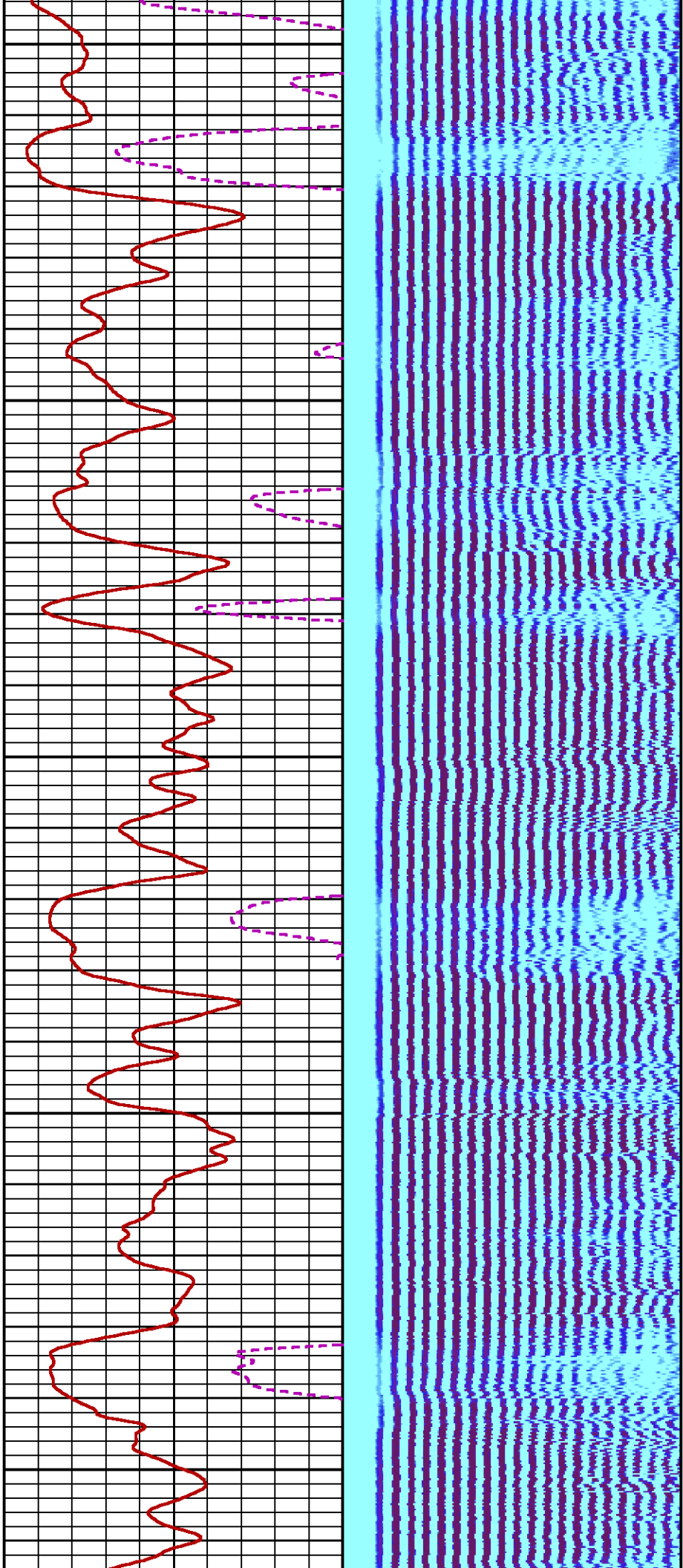




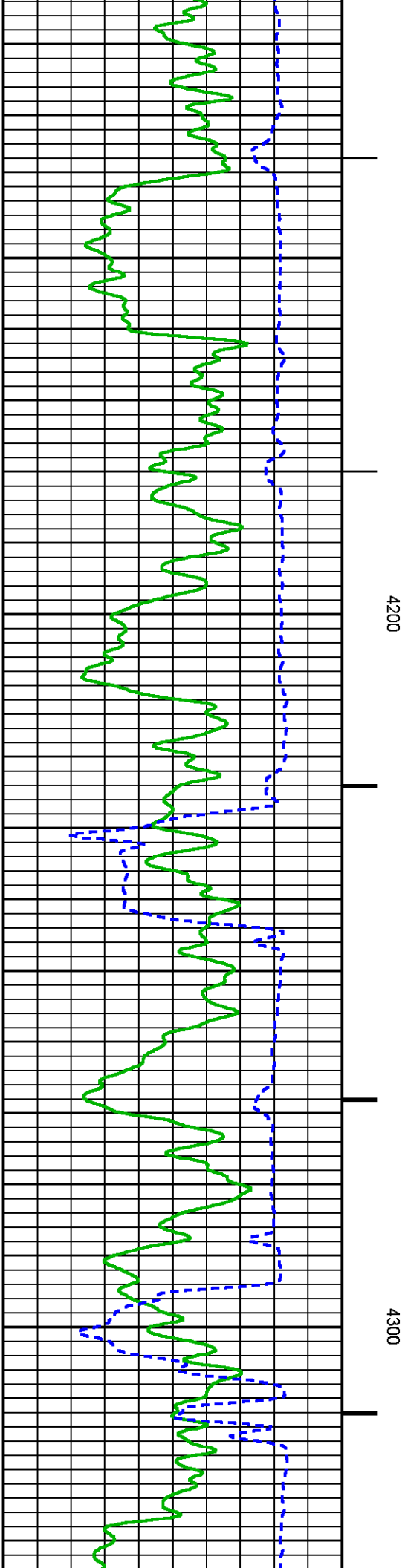
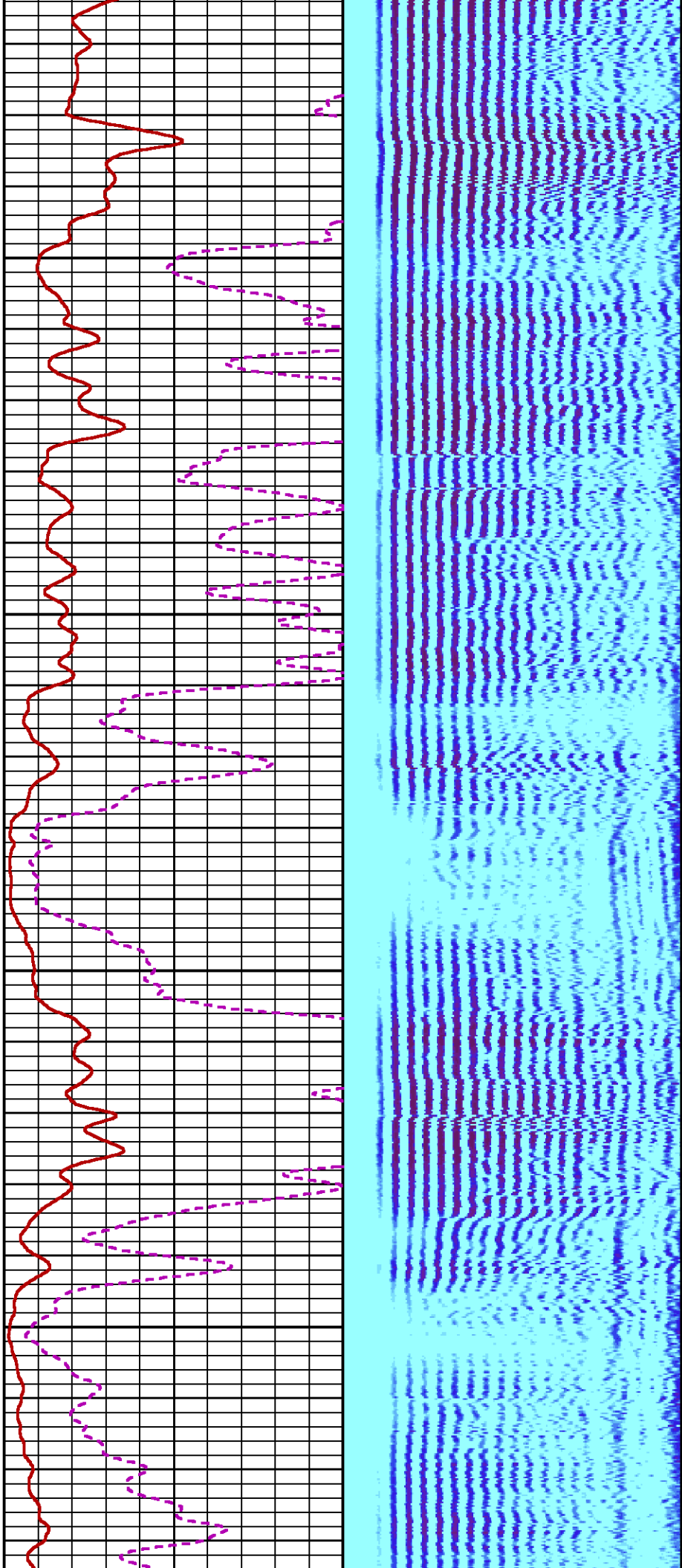


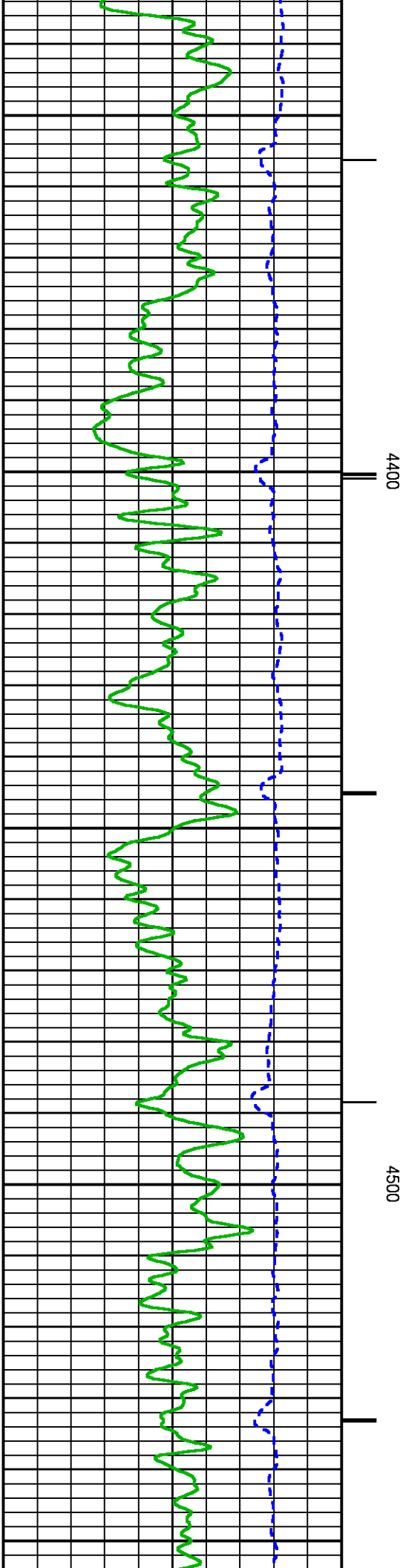
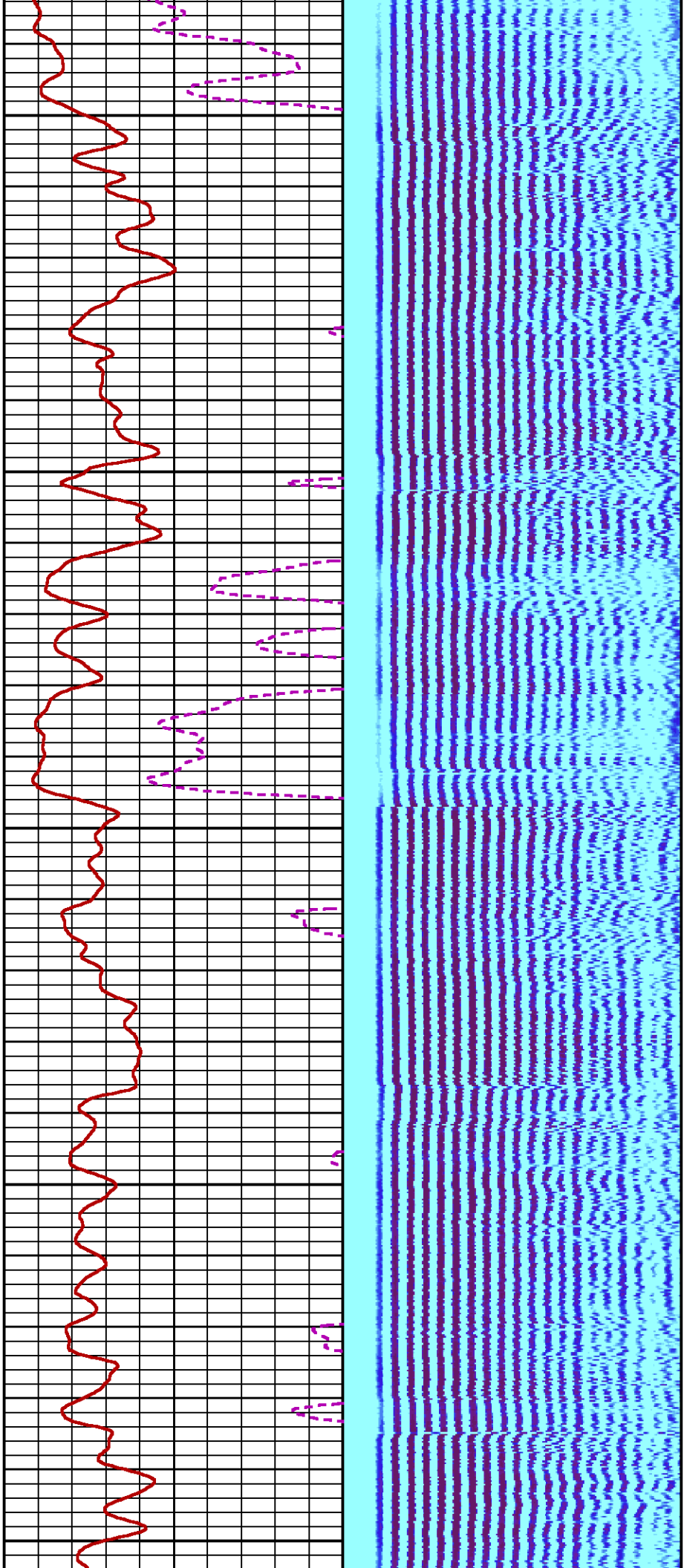


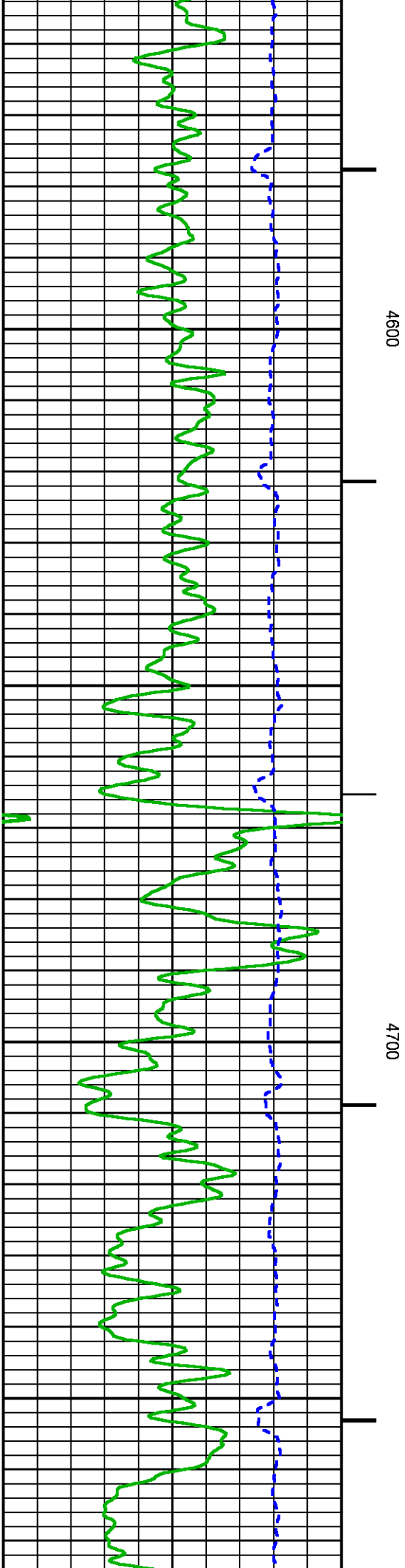
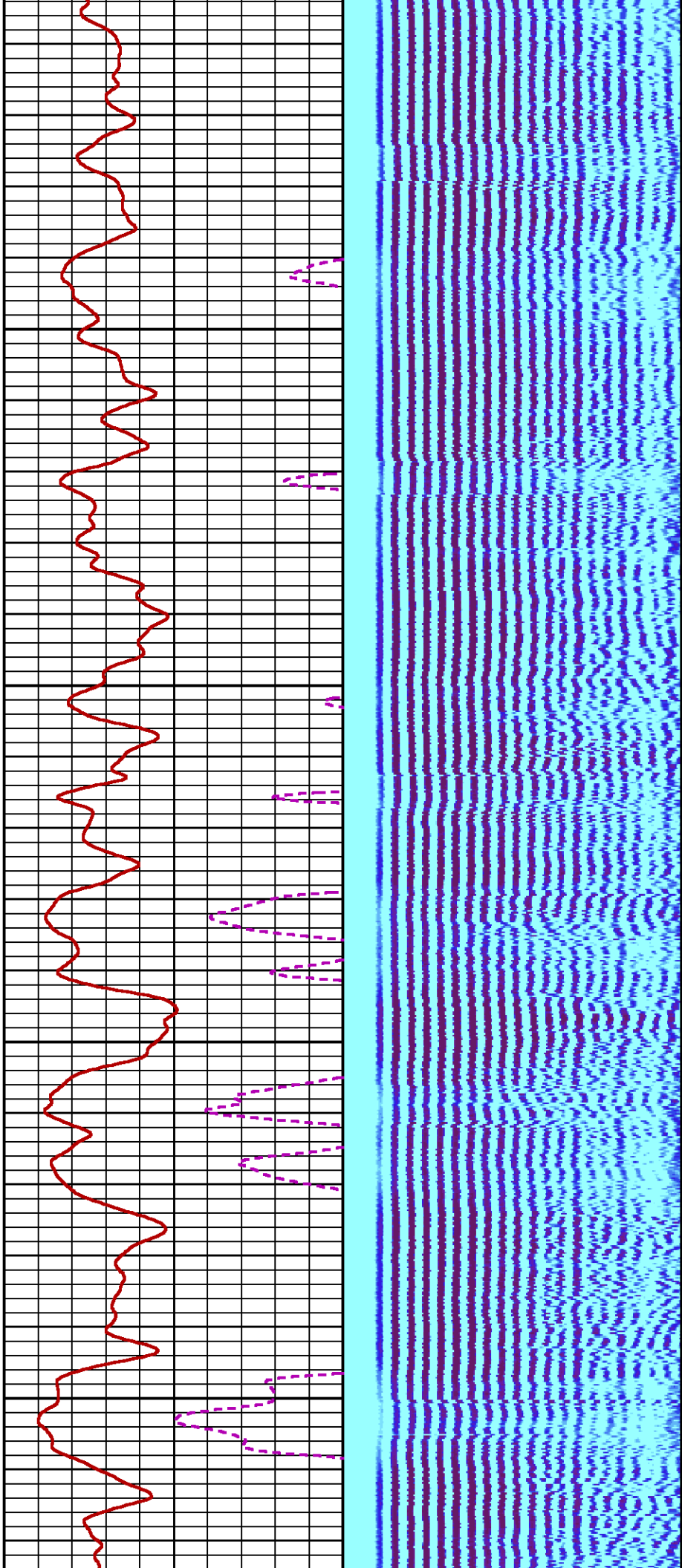




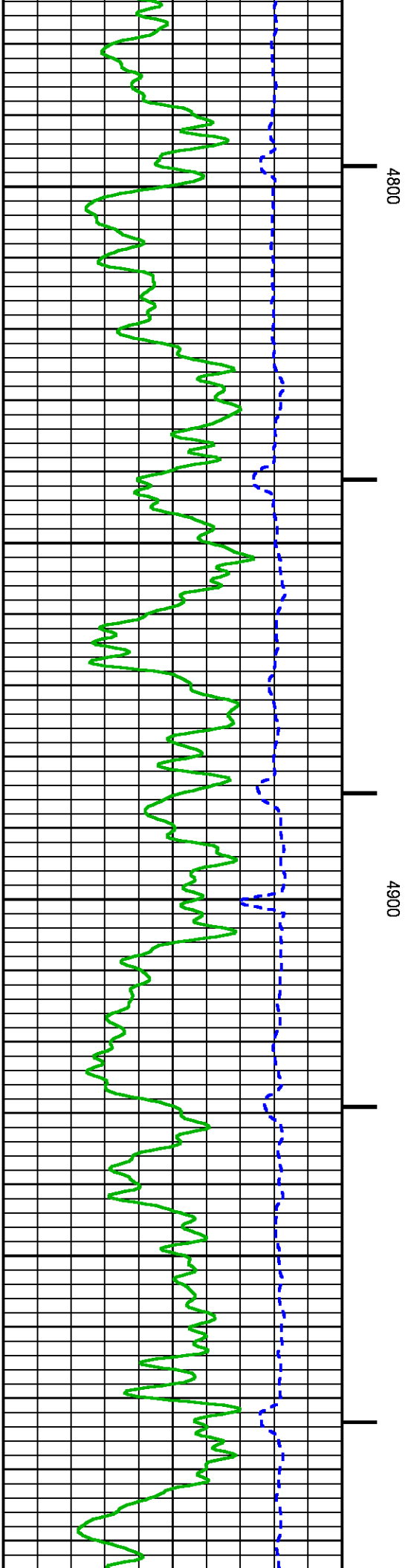
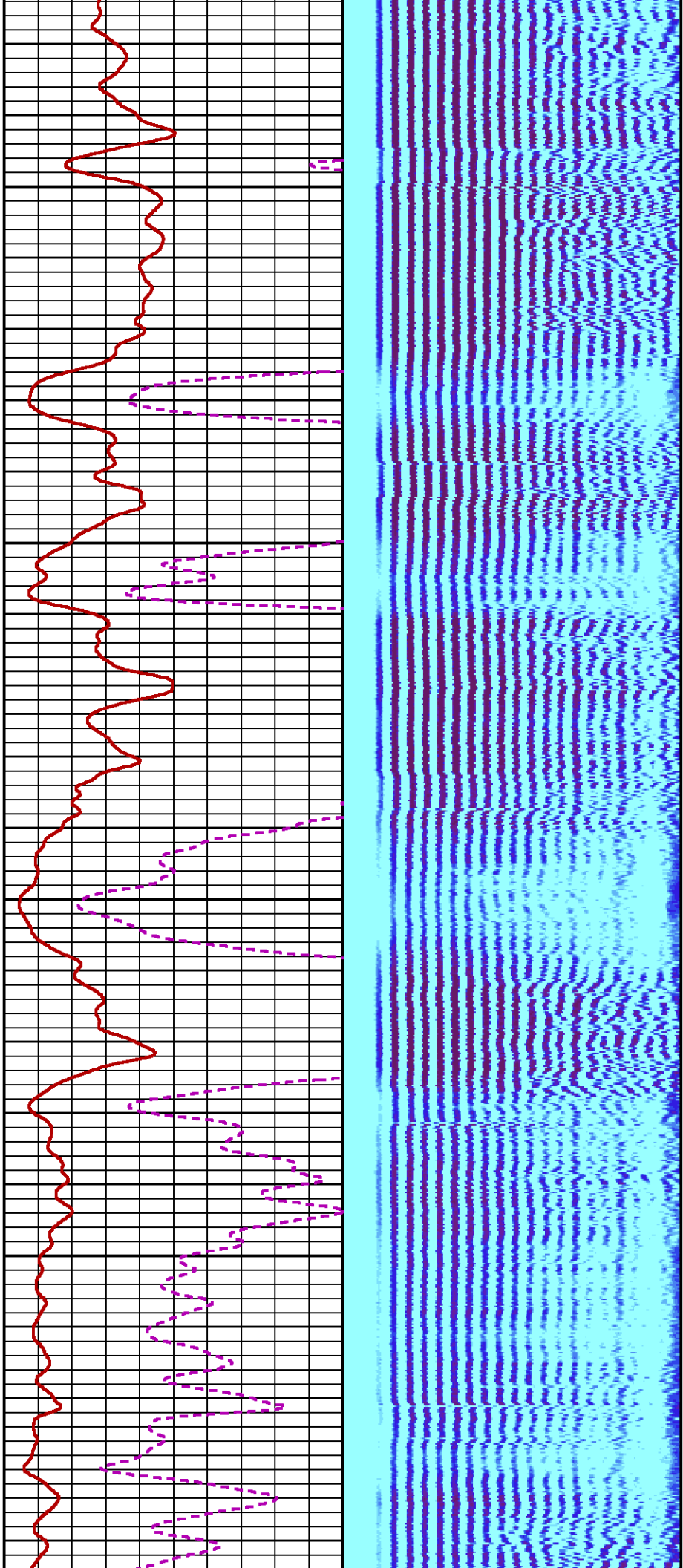




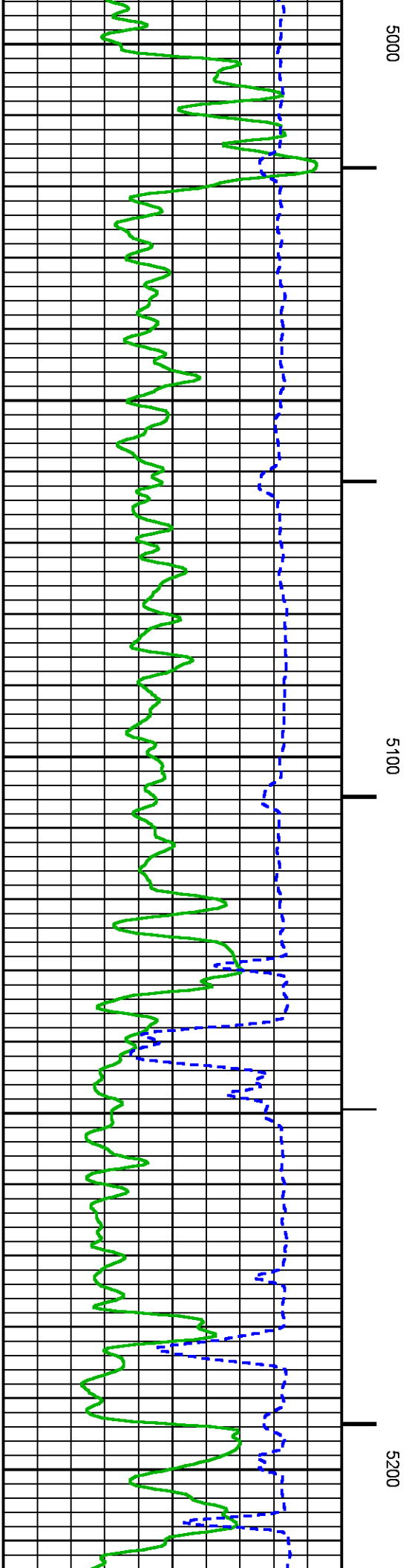
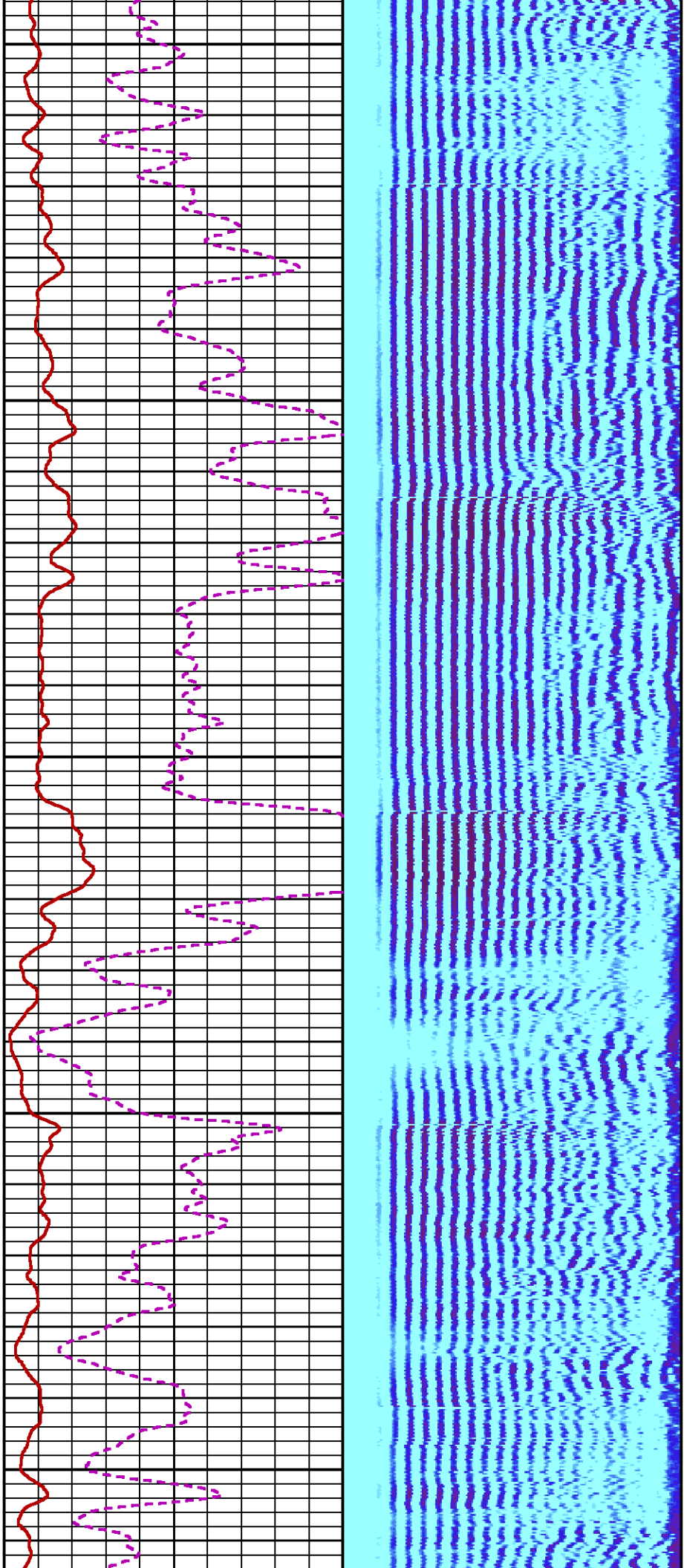


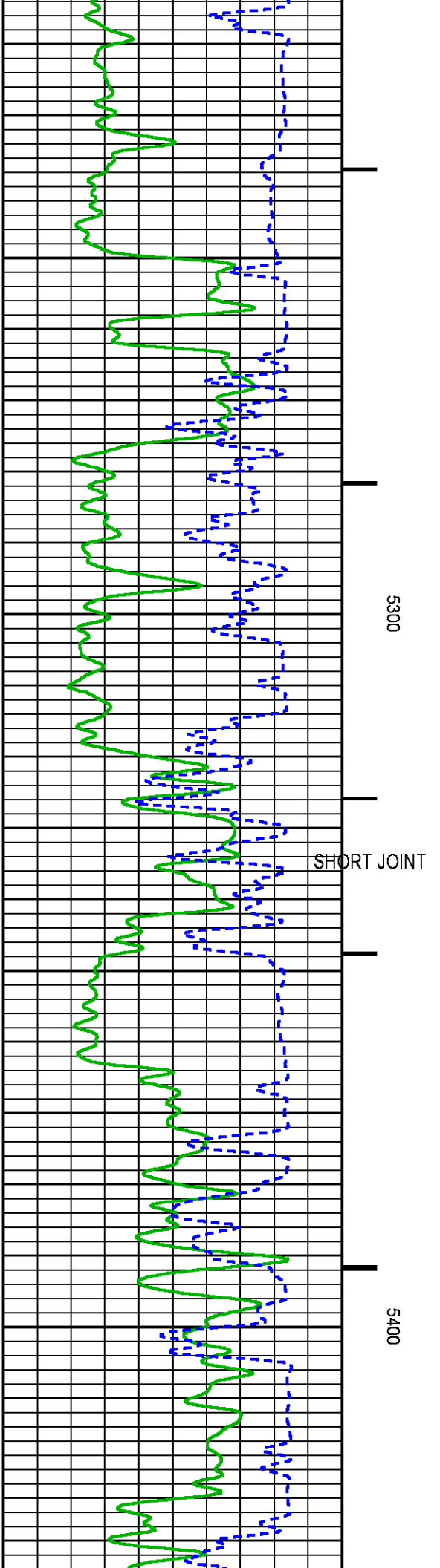
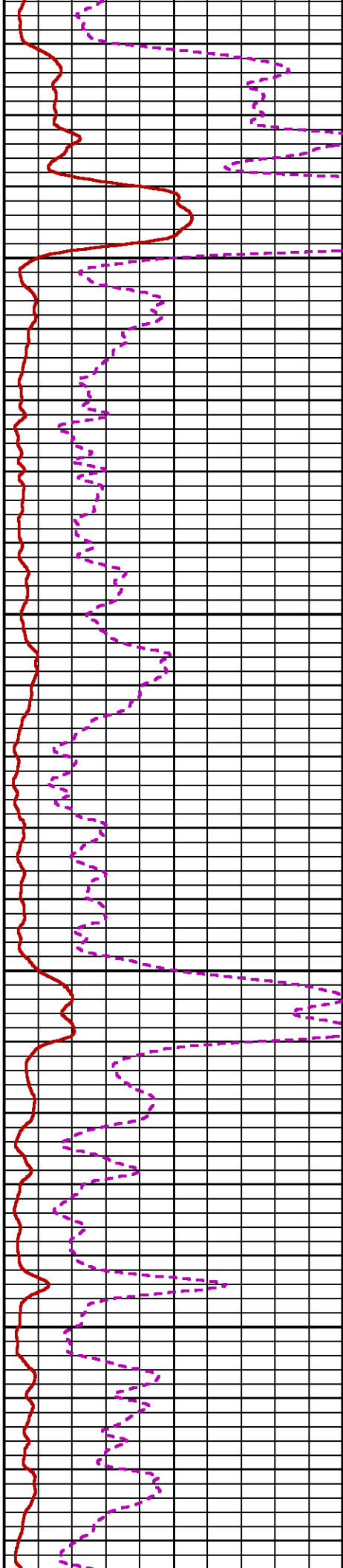
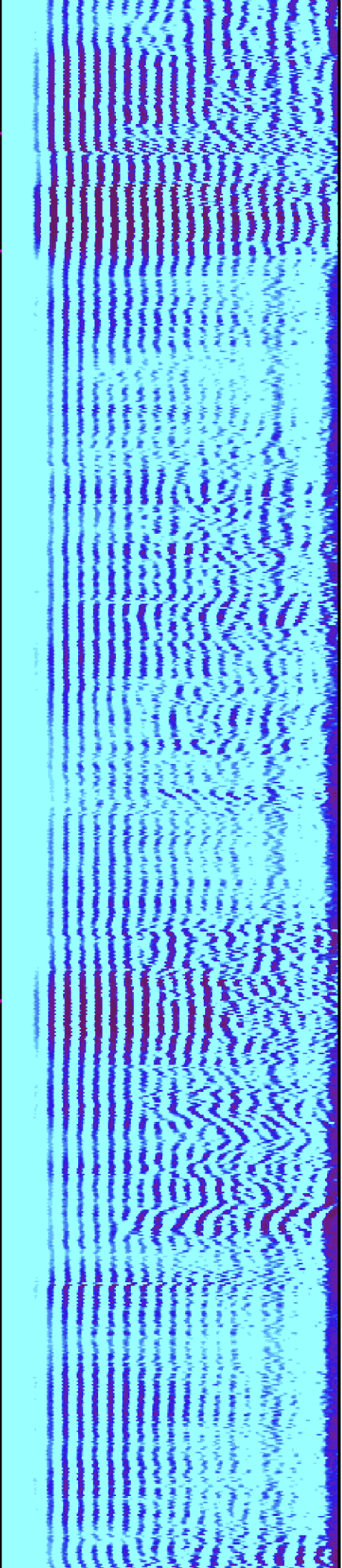


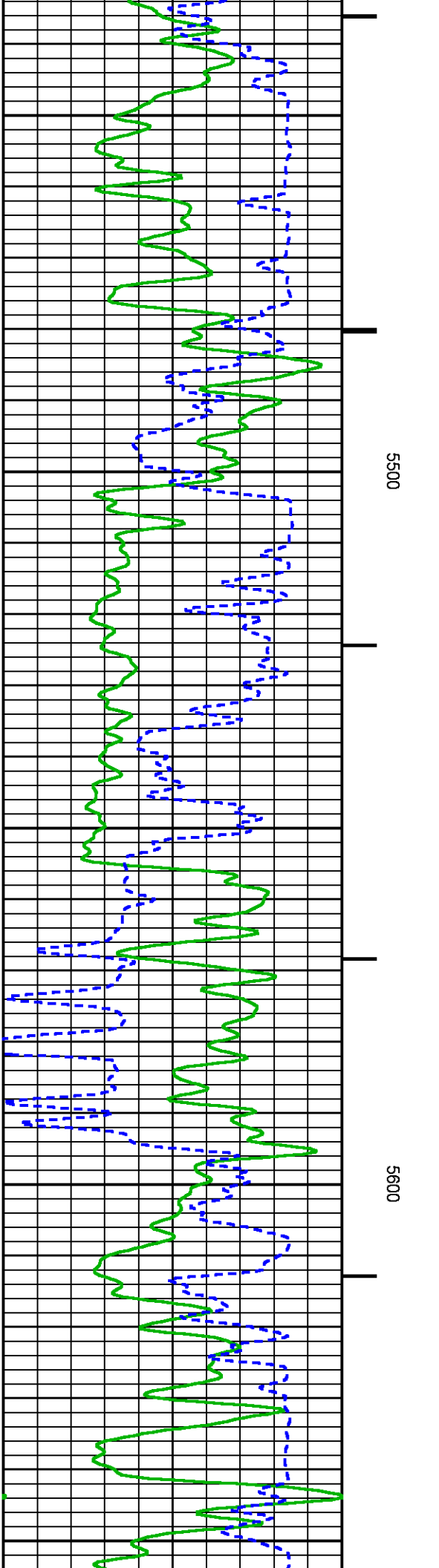
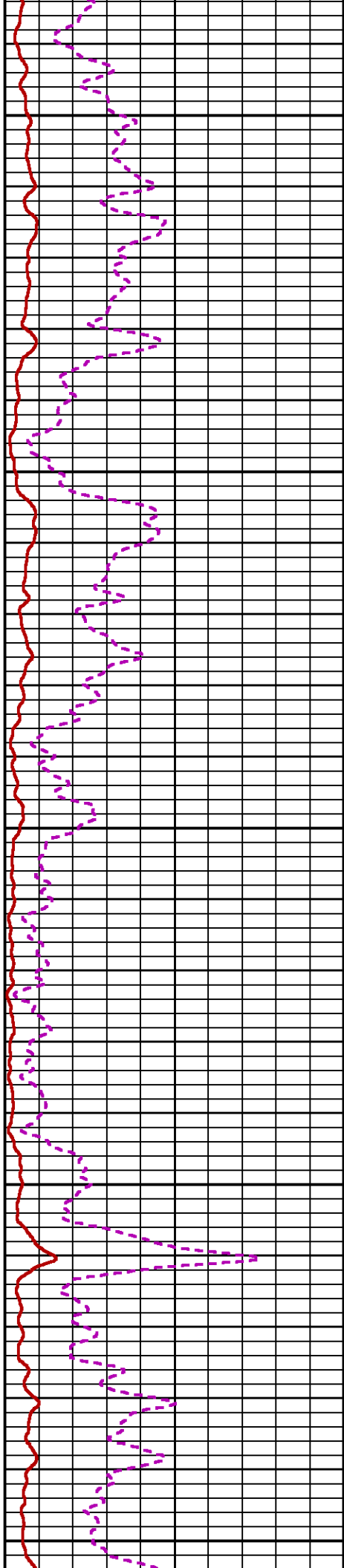
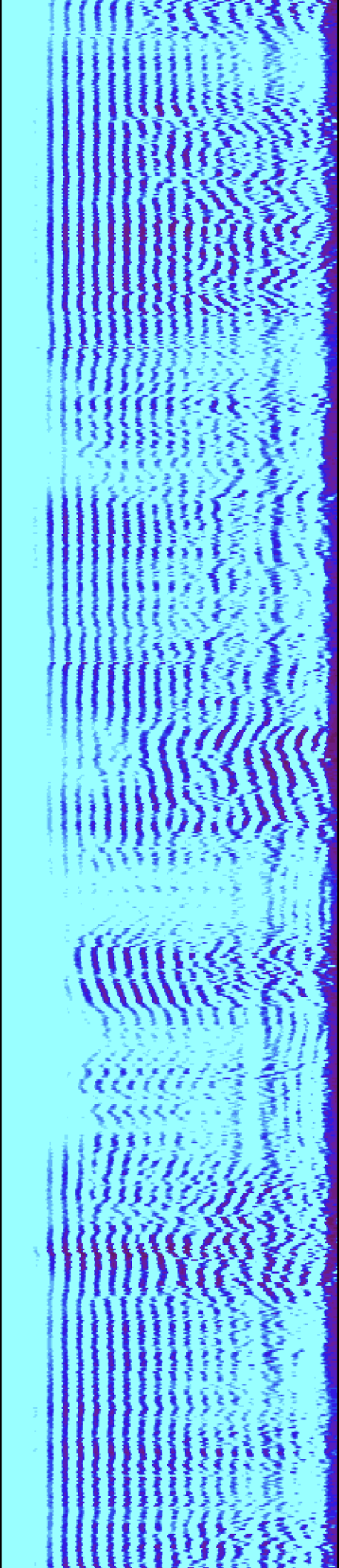




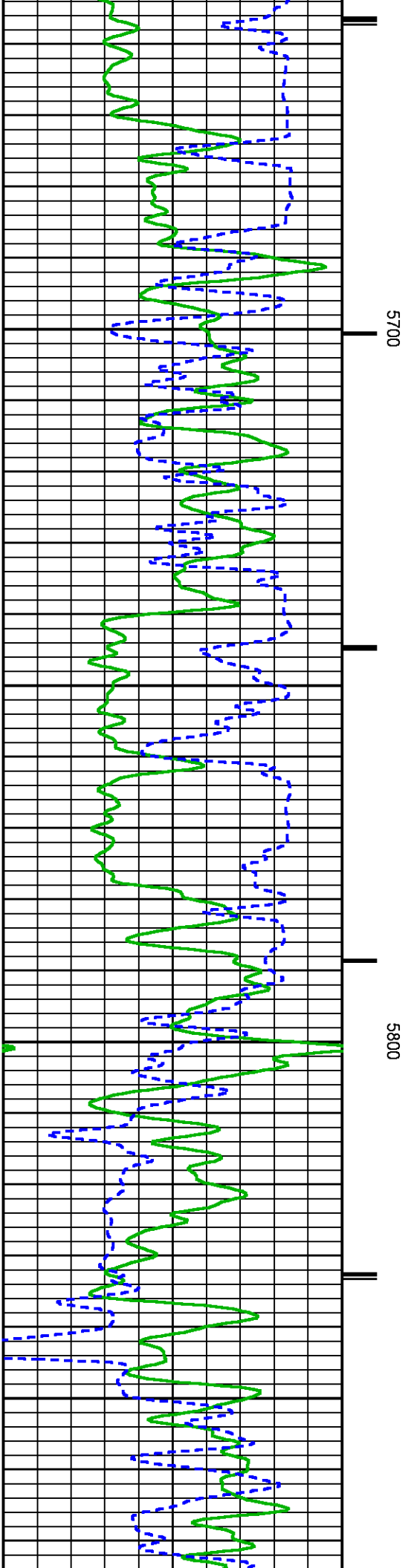
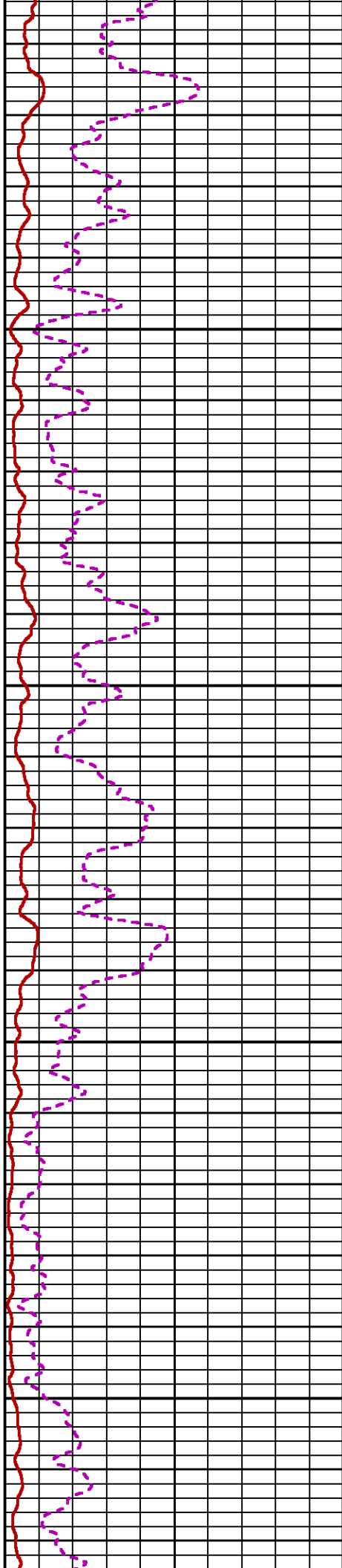
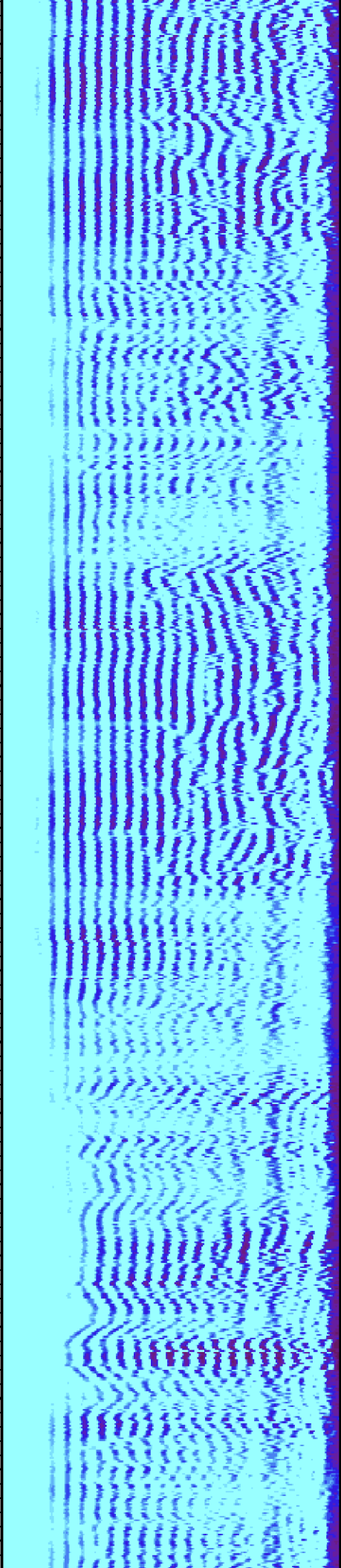


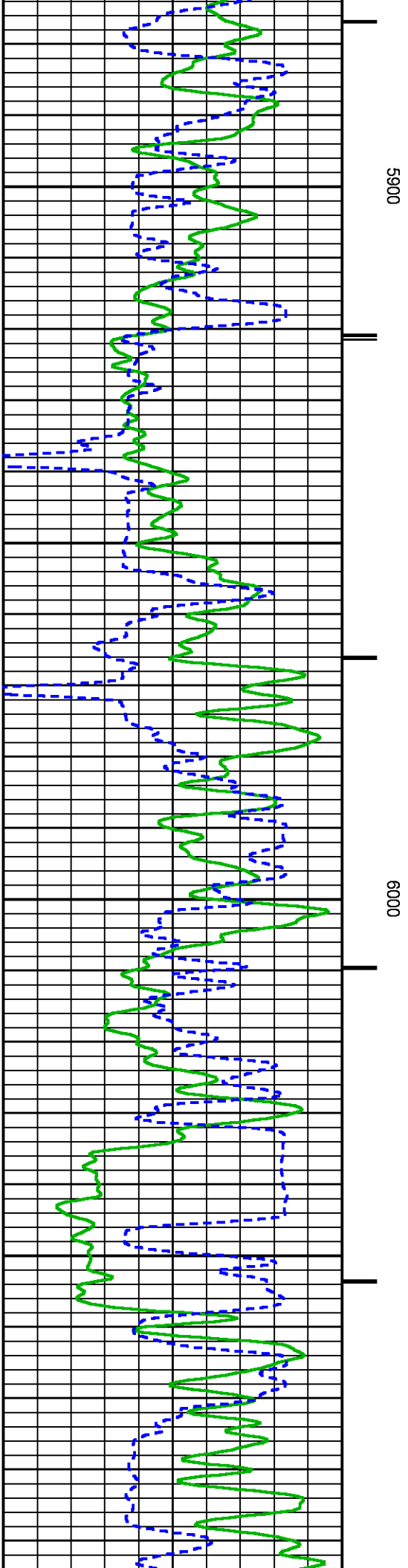
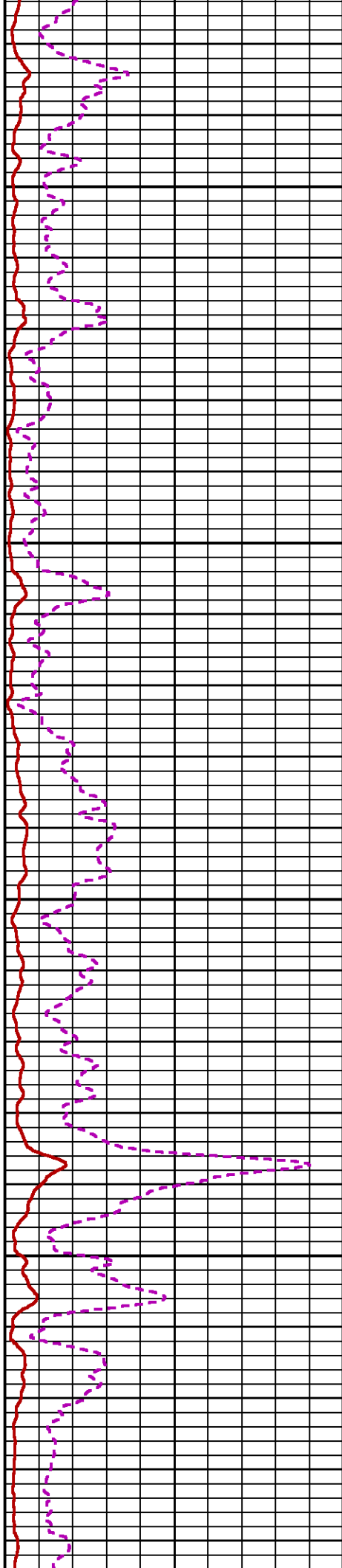
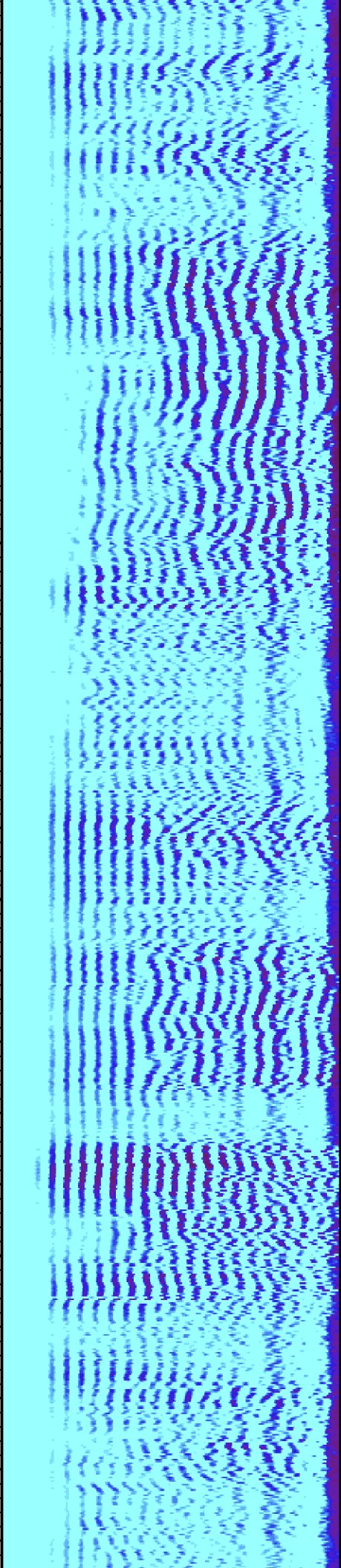


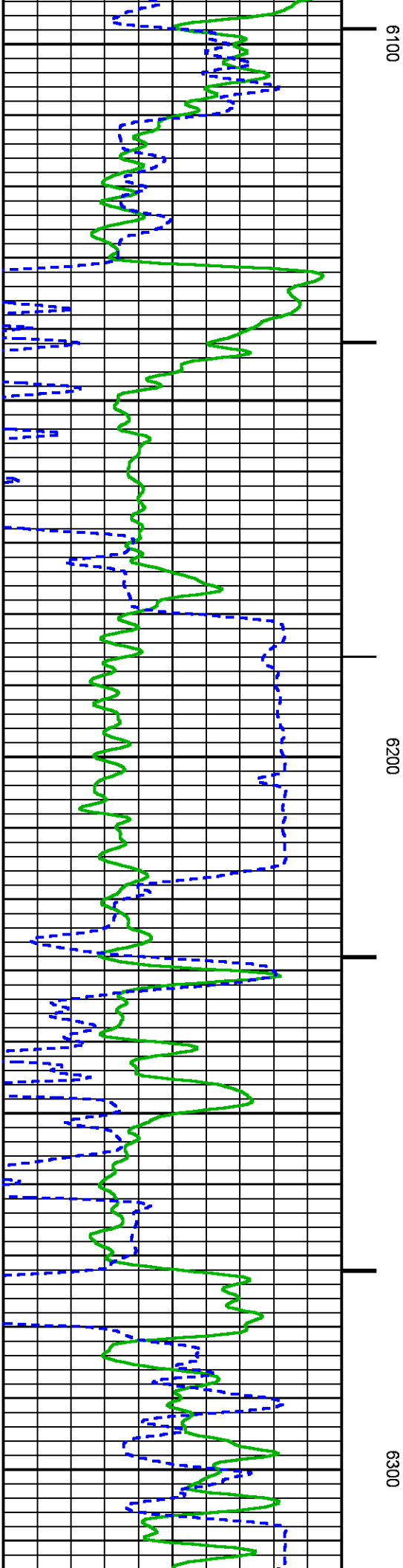
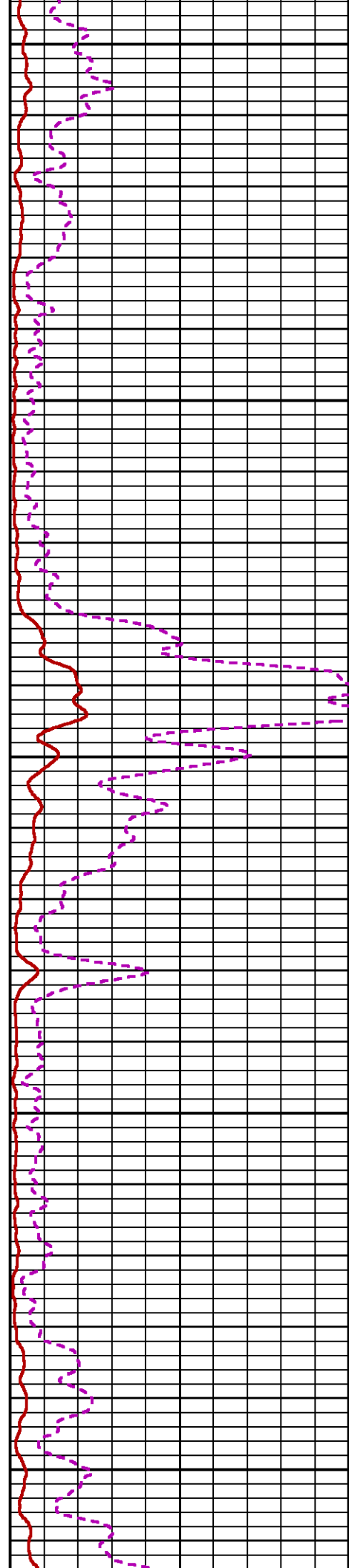
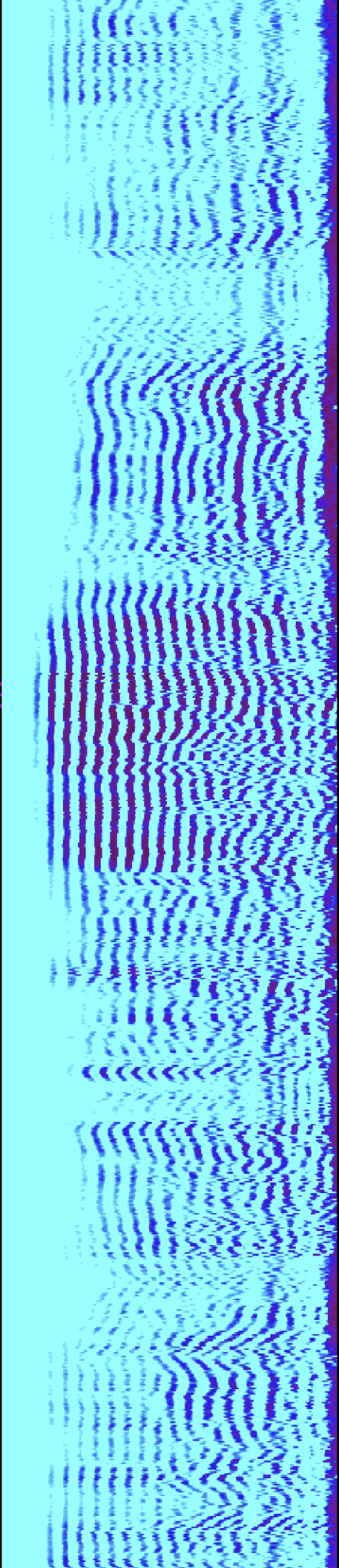


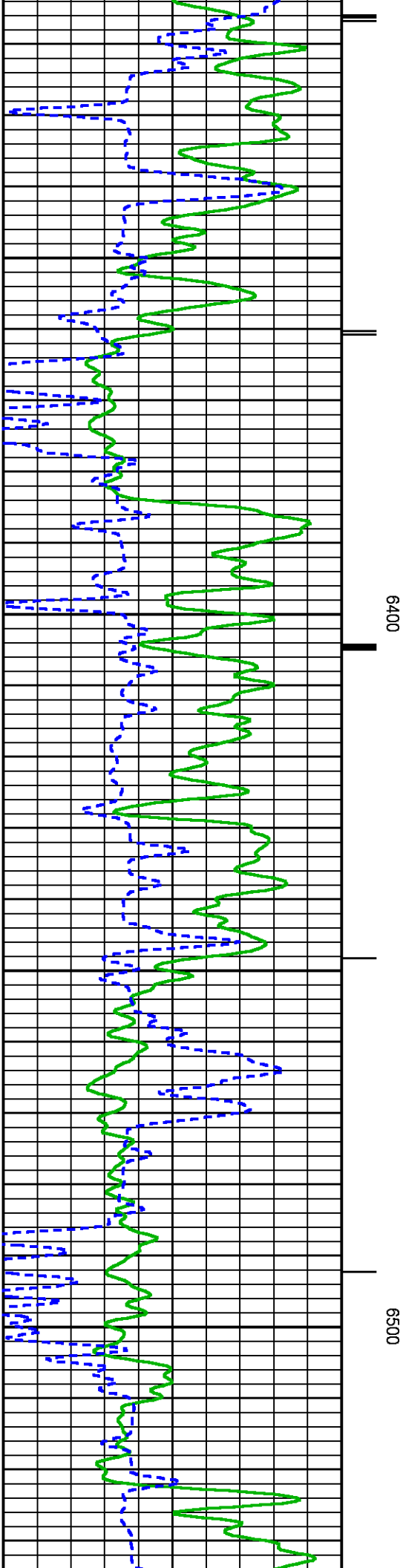
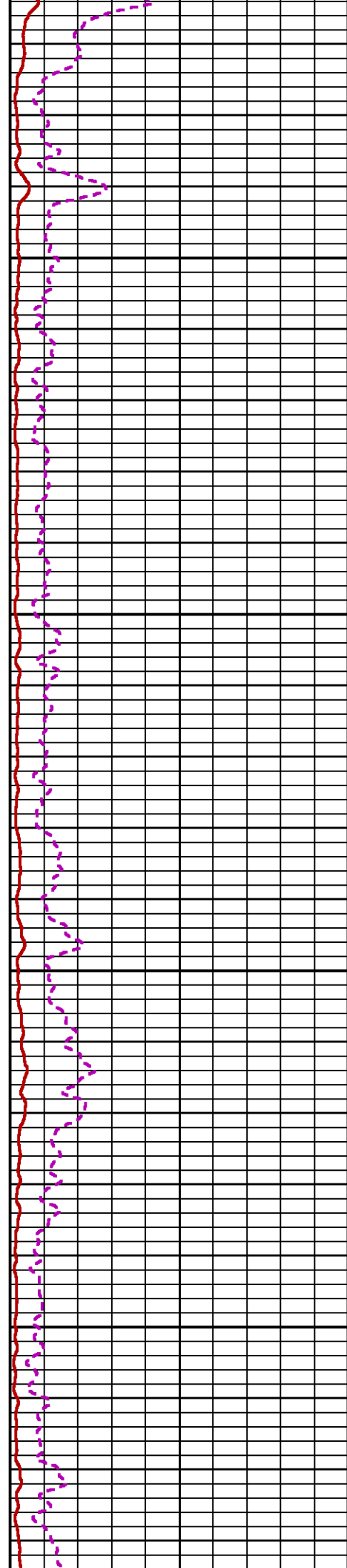
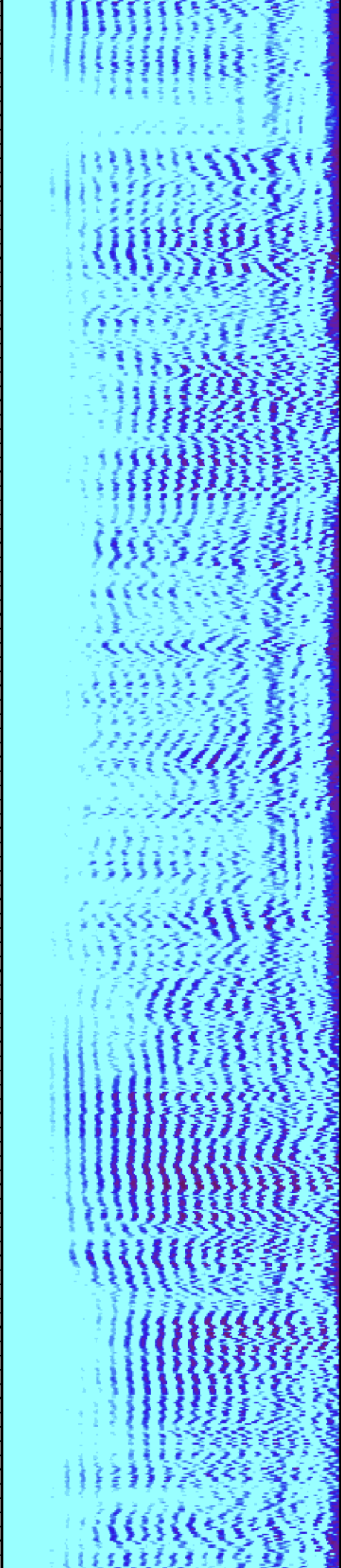




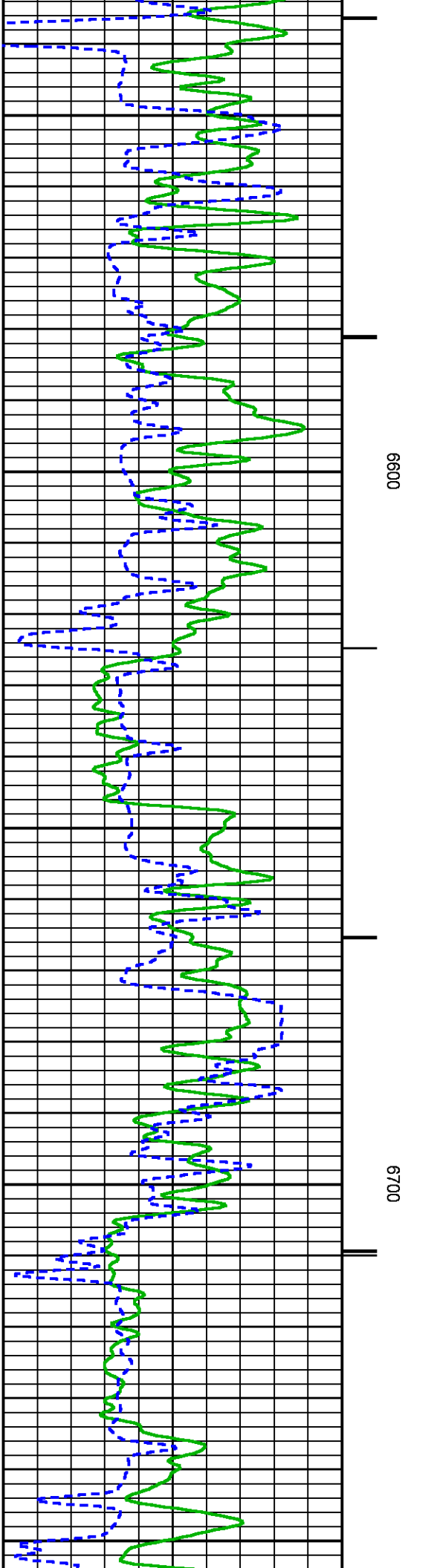
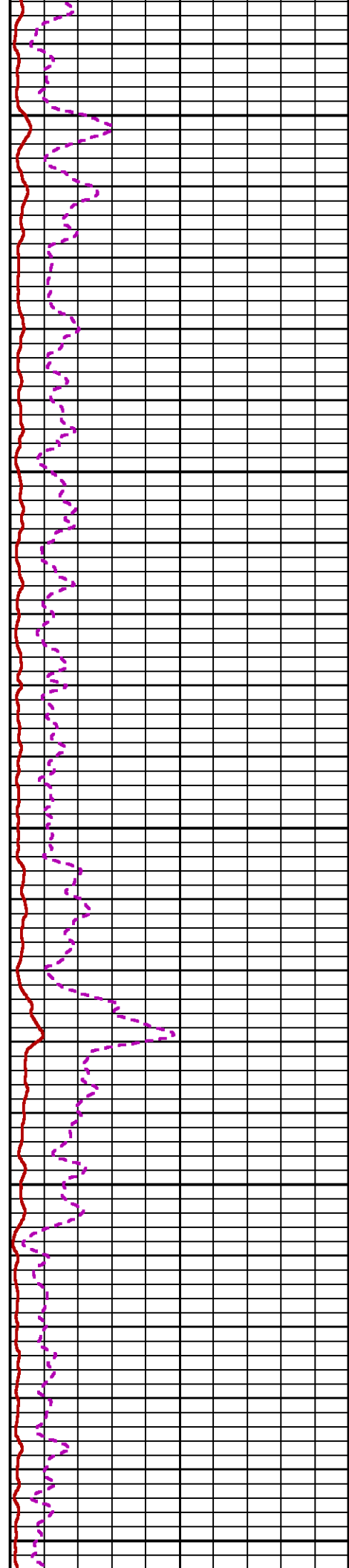
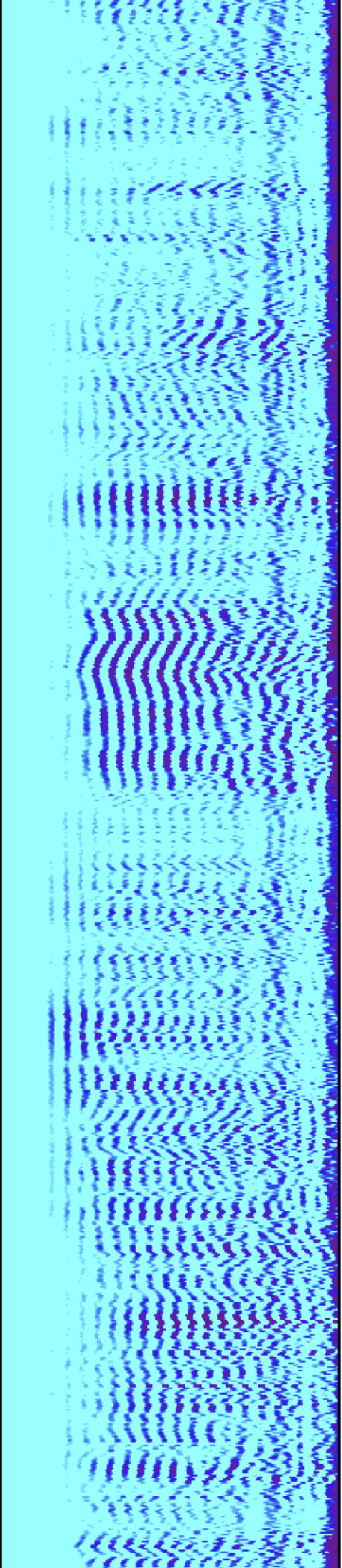


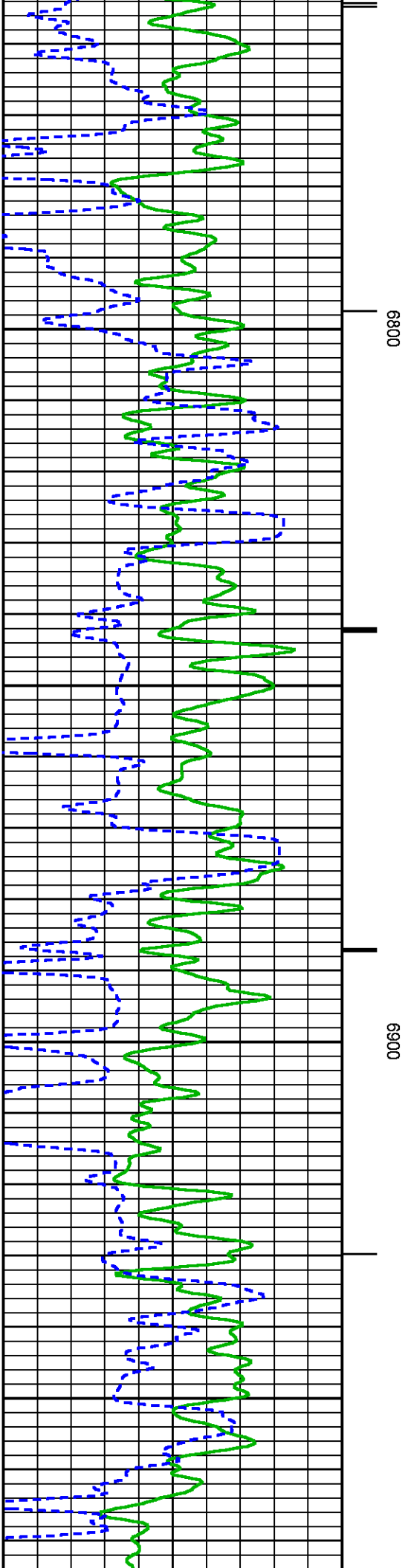
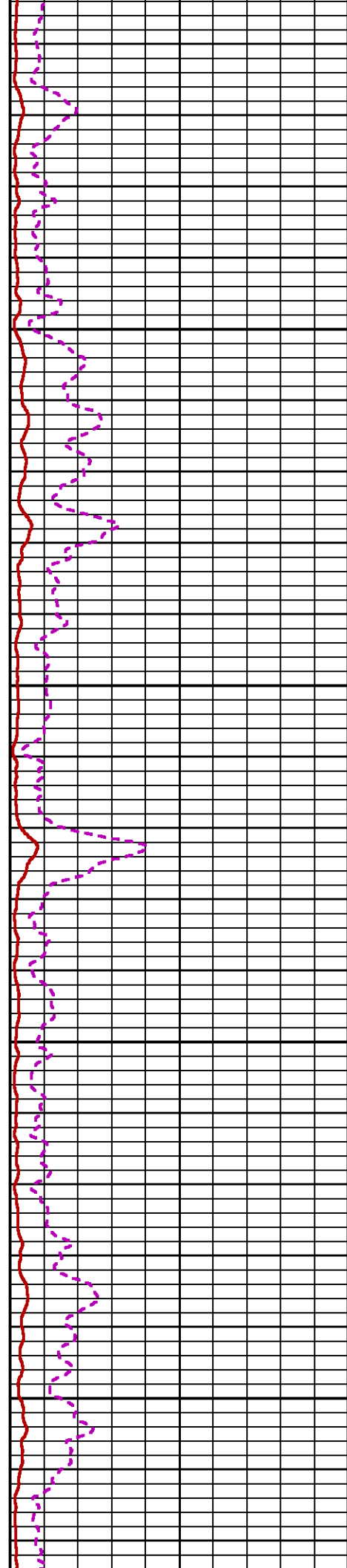
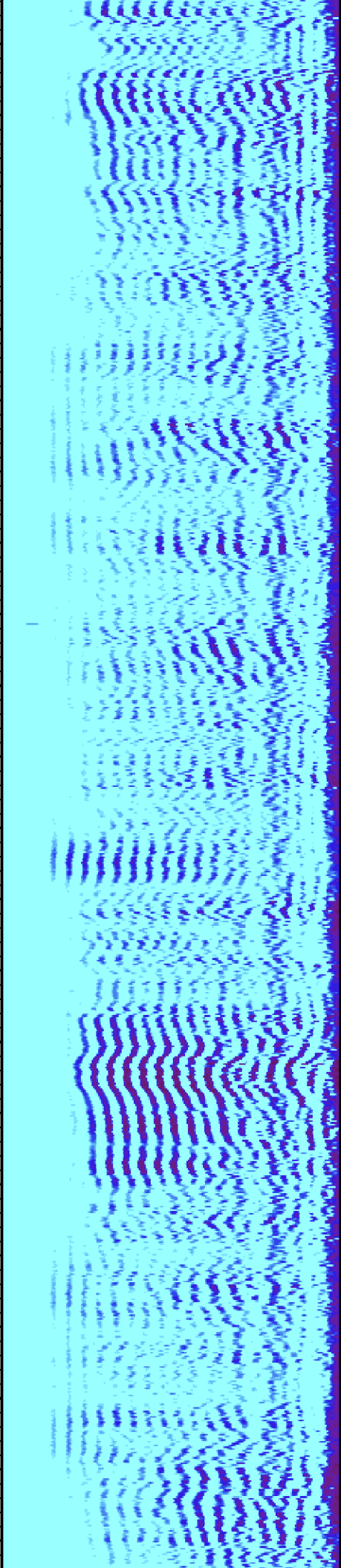


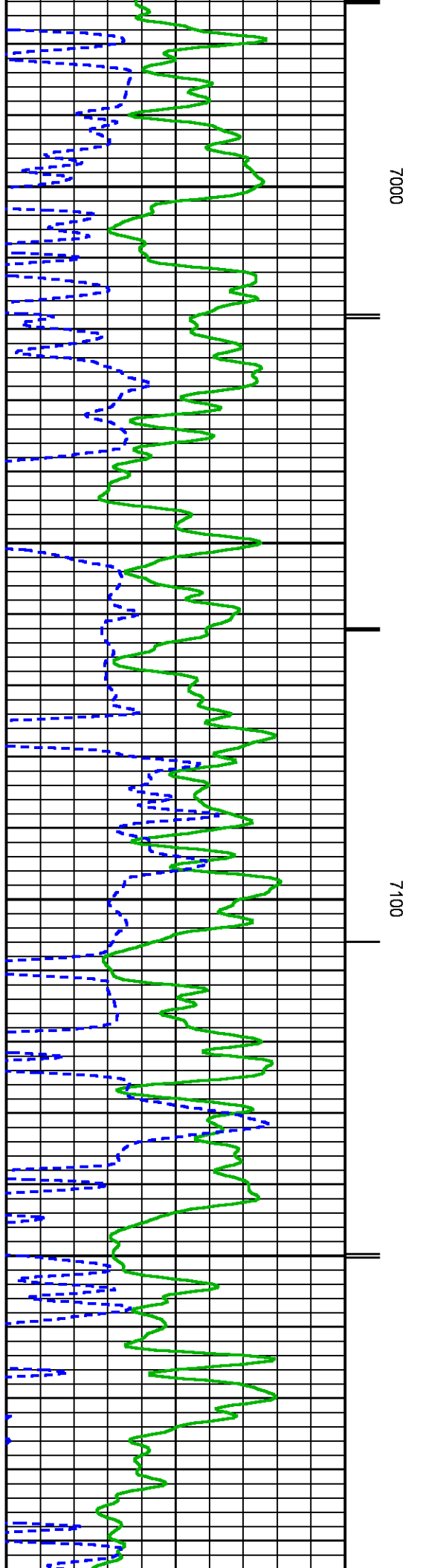
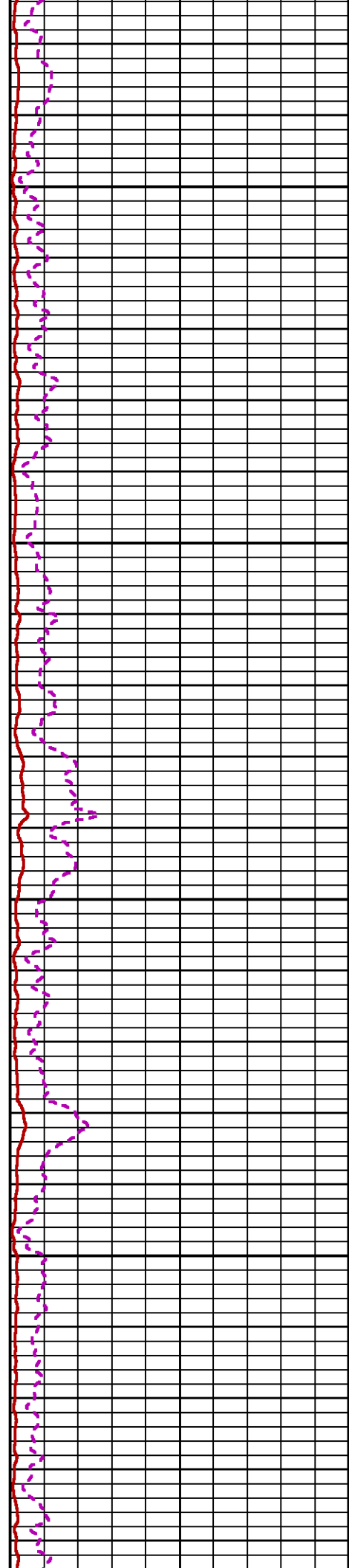
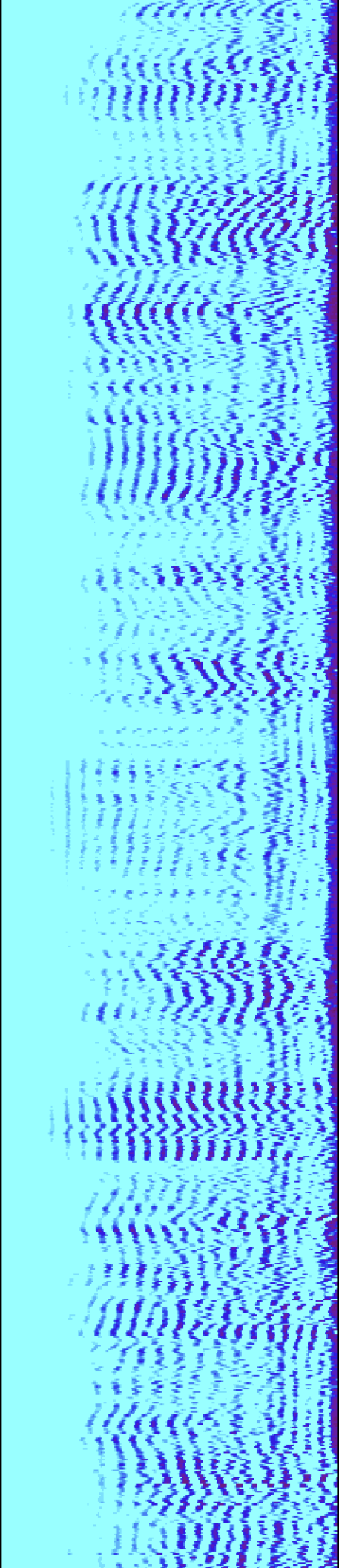


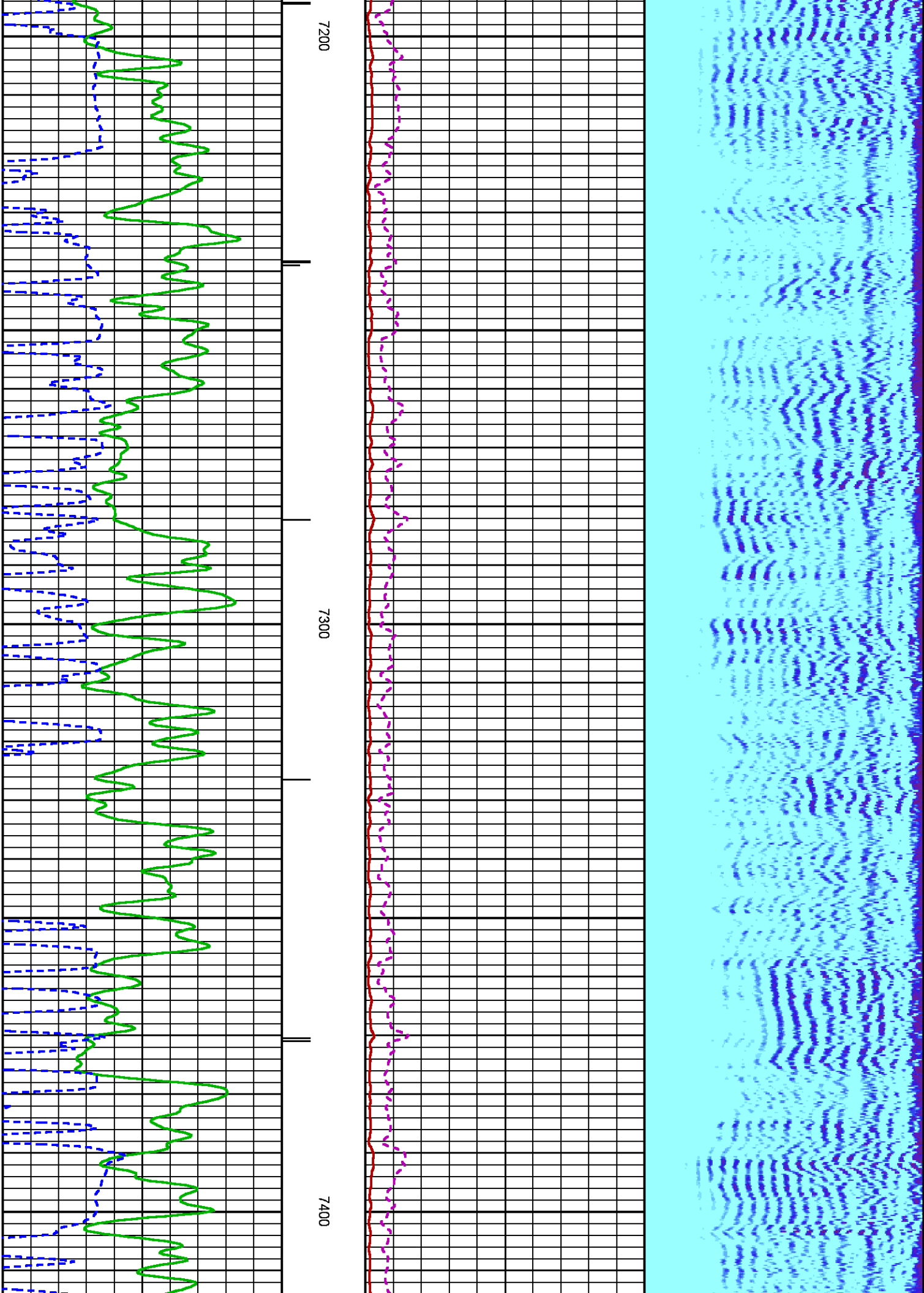




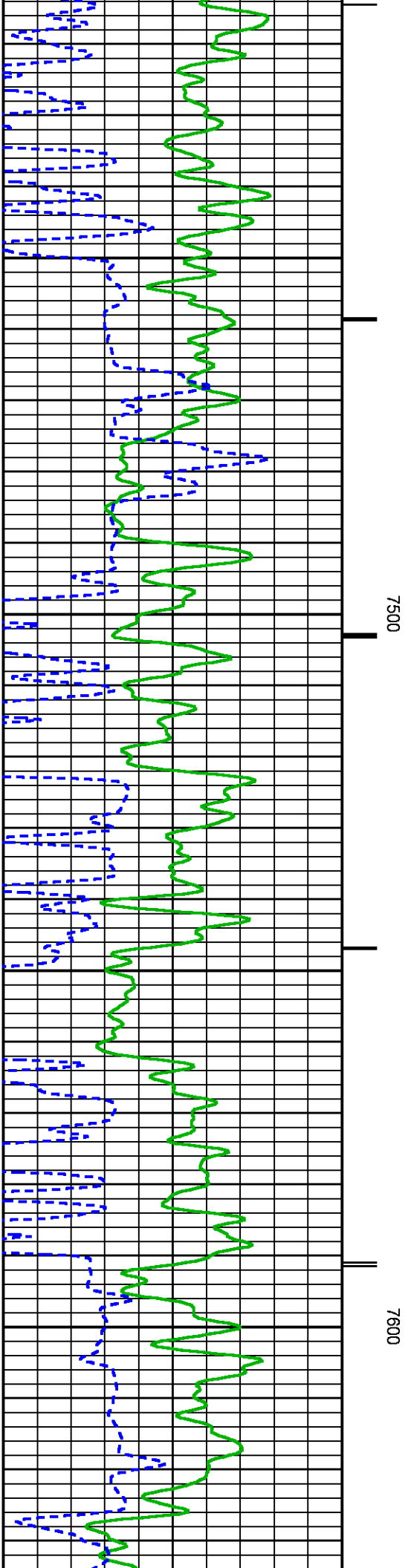
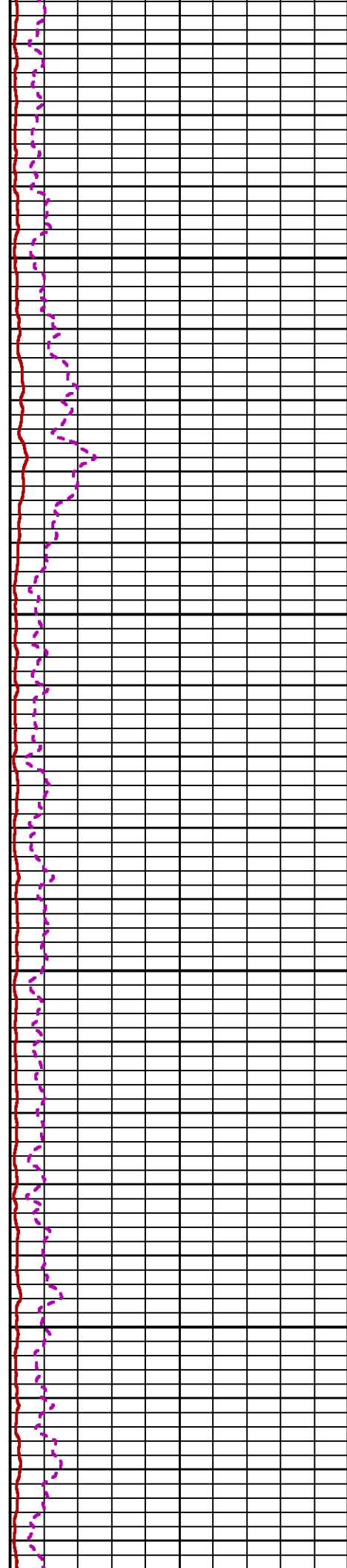
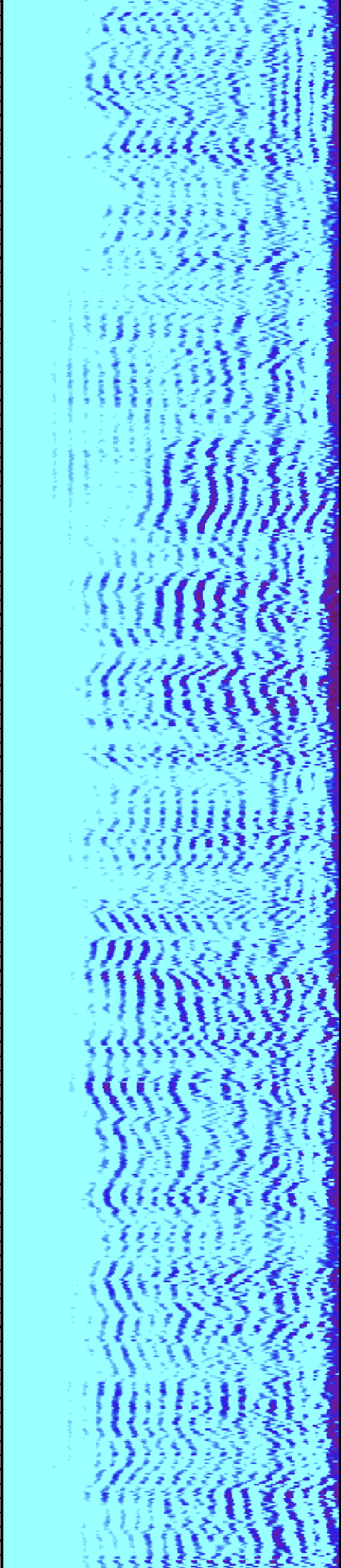


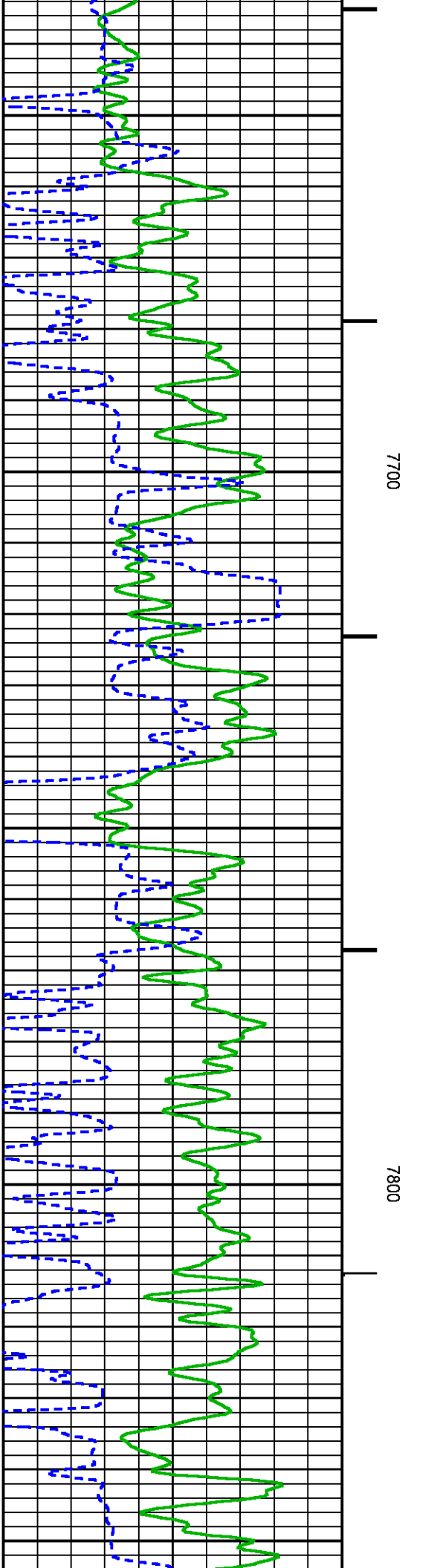
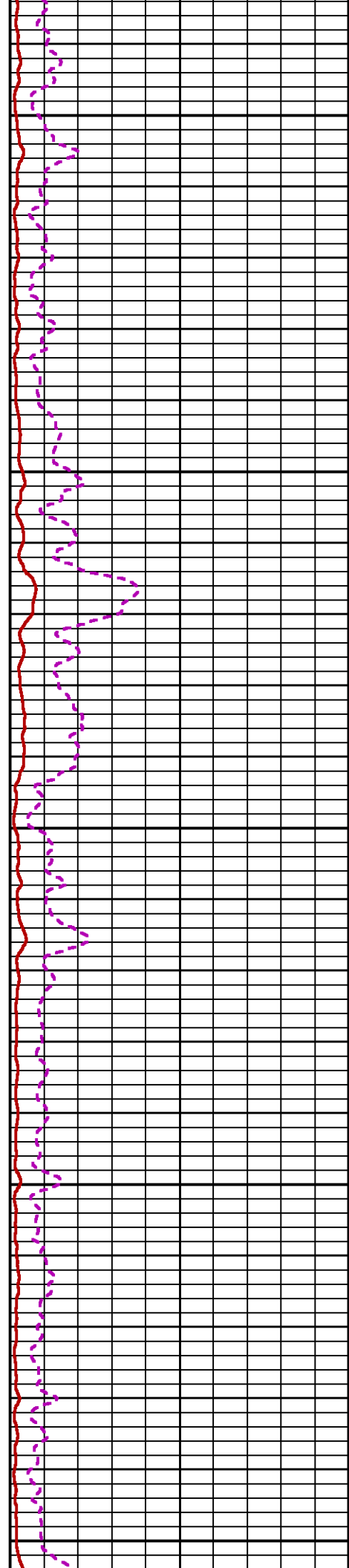
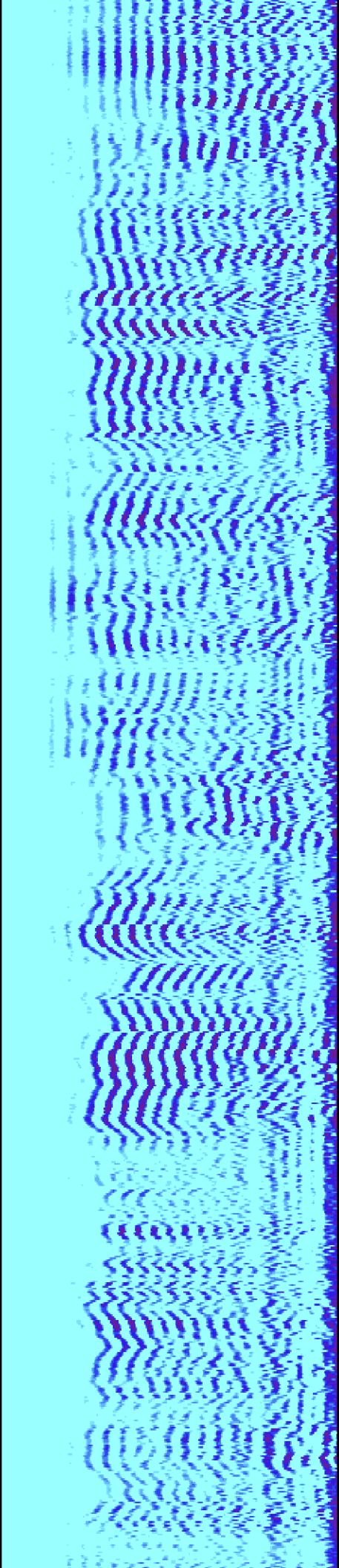


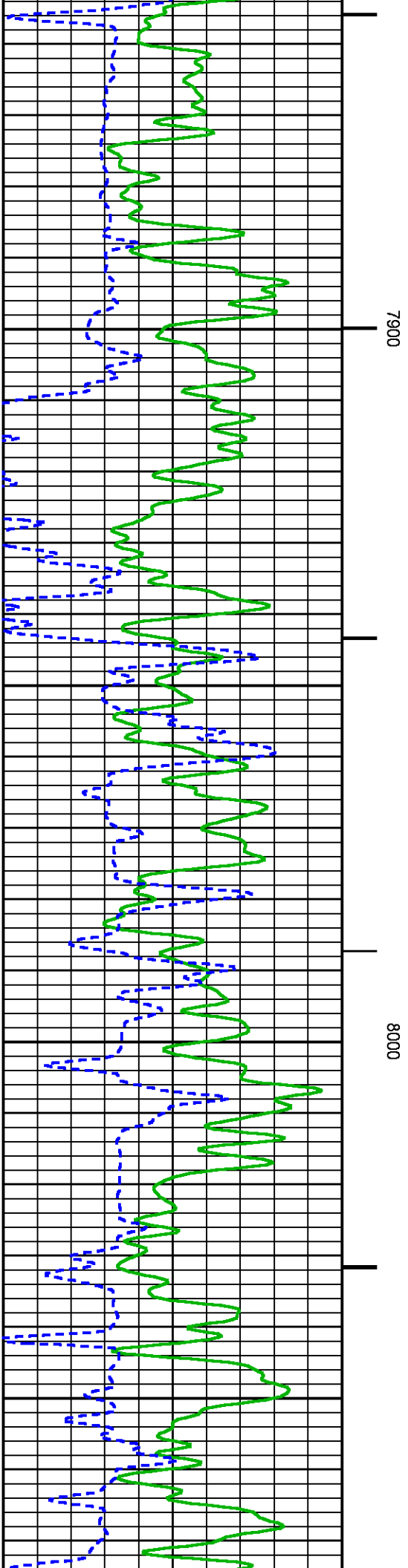
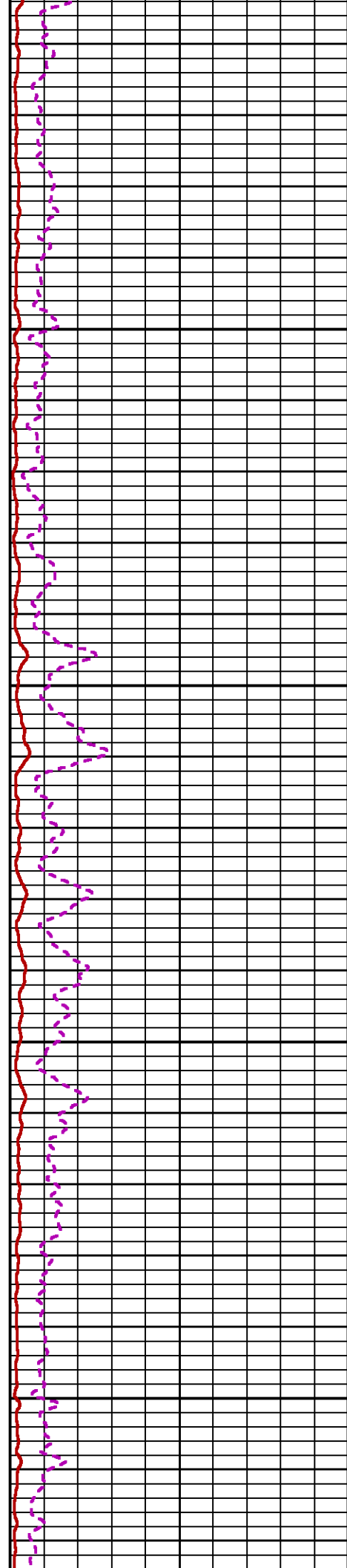
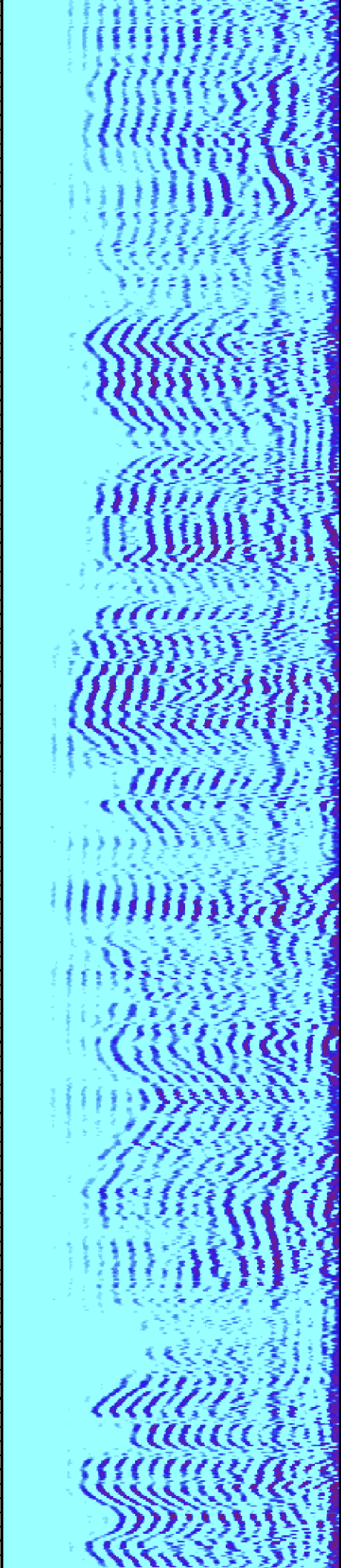


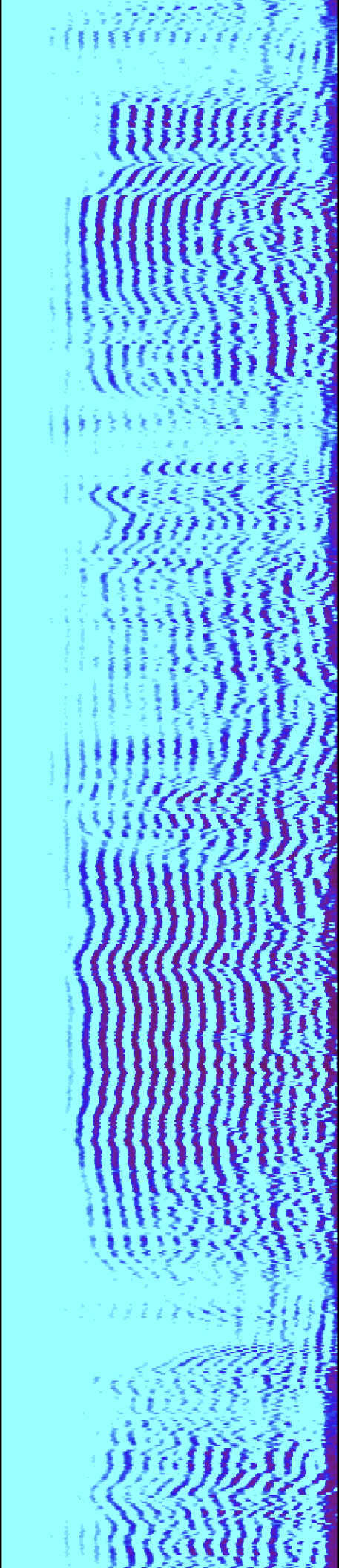






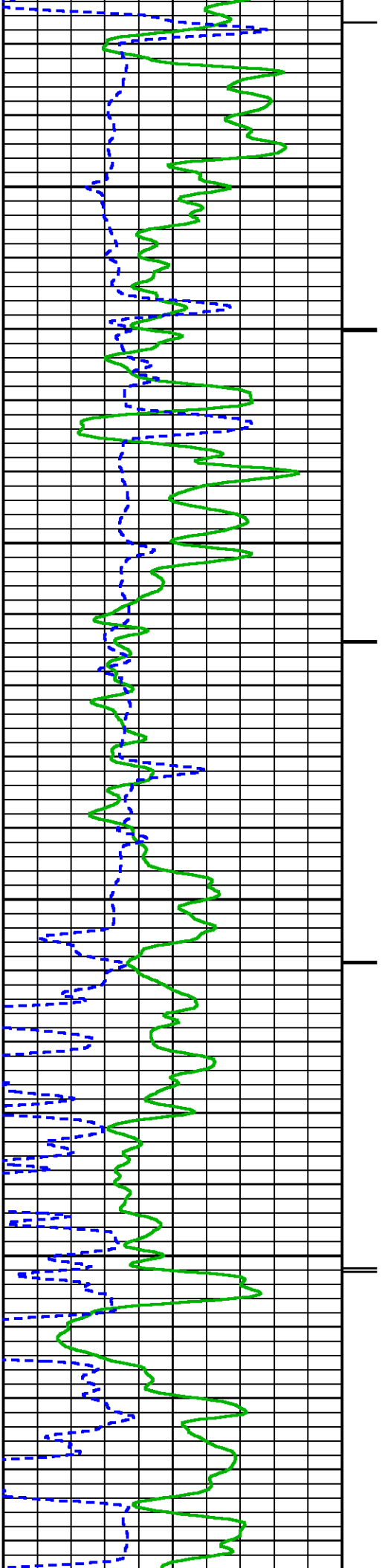




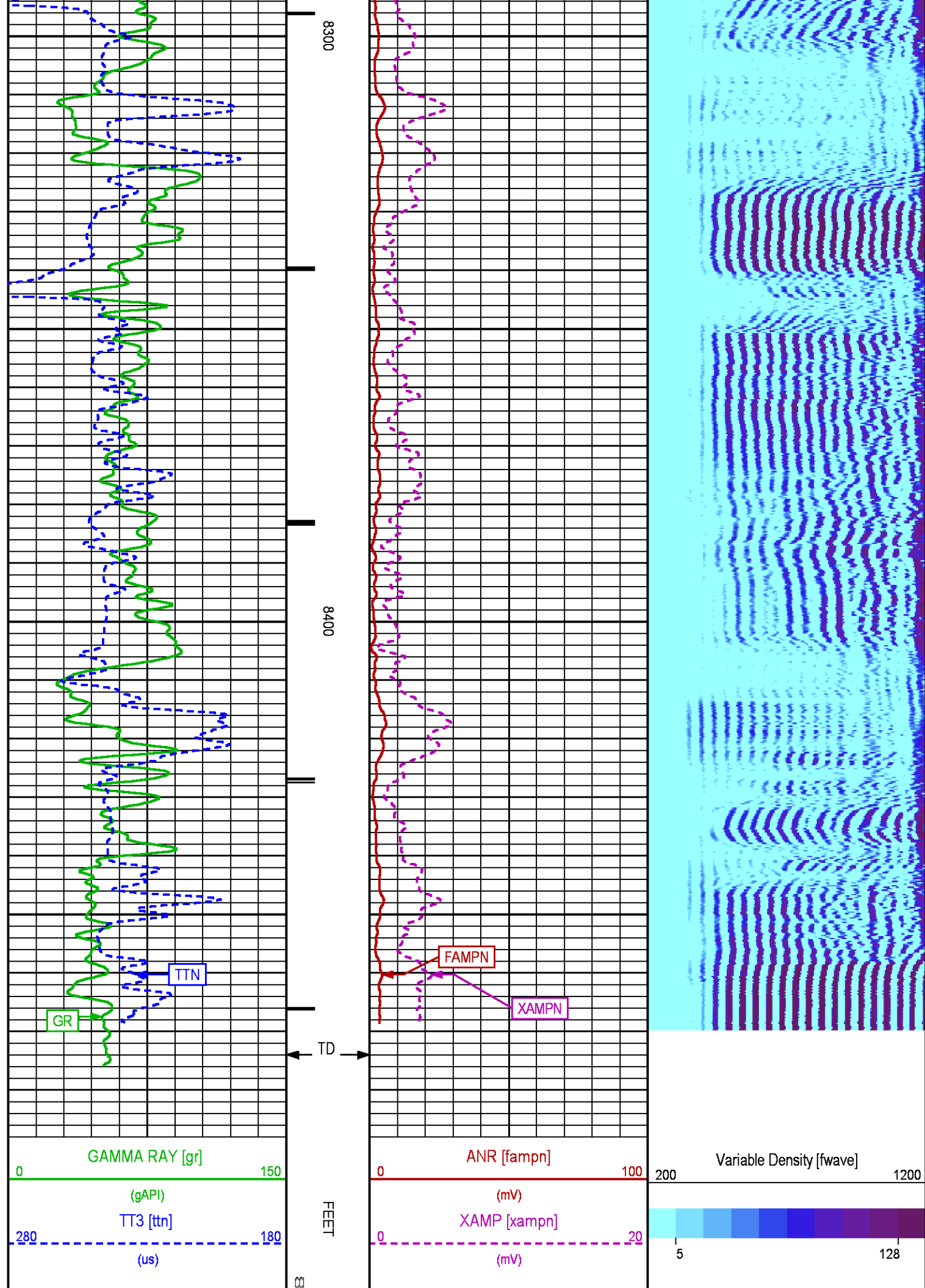


8100

8200







## 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: Fri Jan 9 09:36:57 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH091647/n012e02.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 34.250 ft BOTTOM DEPTH: 8486.192 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*)	140	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	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	126	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 2	81	mV	"	"
	FREE AMP REC 3	81	mV	"	"
	FREE AMP REC 4	81	mV	"	"
	FREE AMP REC 5	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	"	"

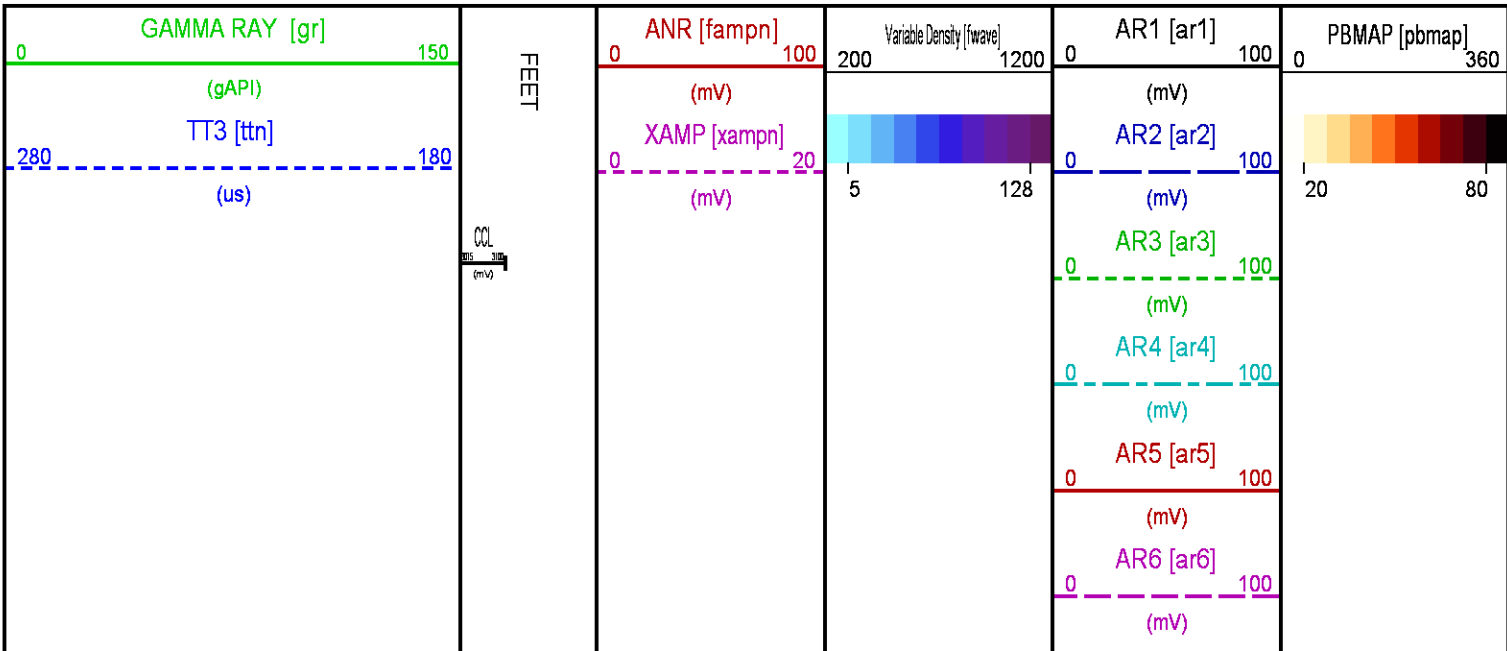
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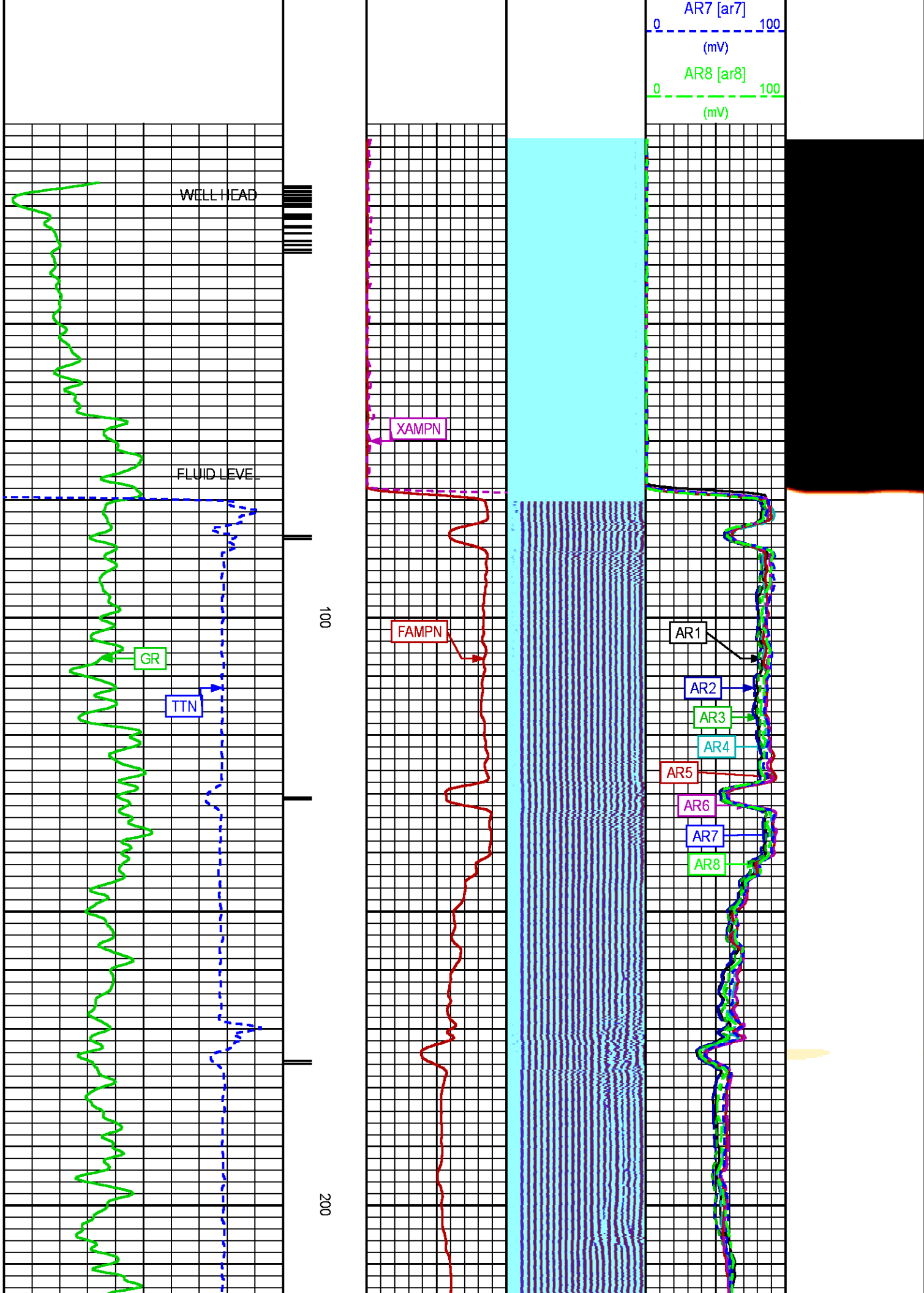
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jan 7 09:03:42 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 7 09:03:42 2015	FAR WAVE FORM
F1:GR	Jan 7 09:03:42 2015	GAMMA RAY
F1:PBMAP	Jan 7 09:03:42 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jan 7 09:03:42 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 7 09:03:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

## CURVE MEASURE POINT OFFSET

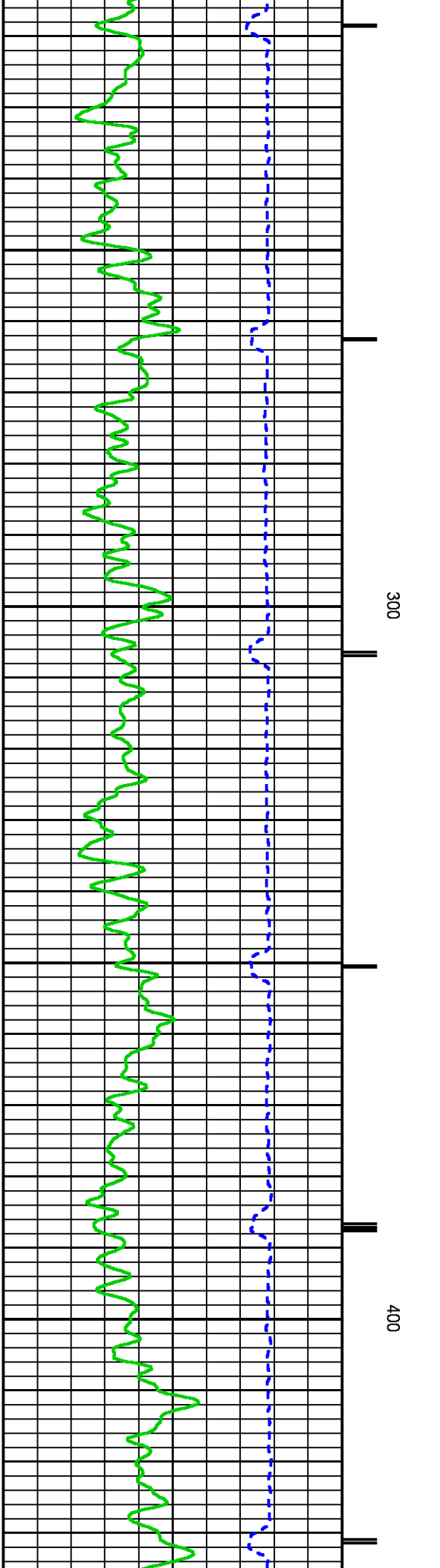
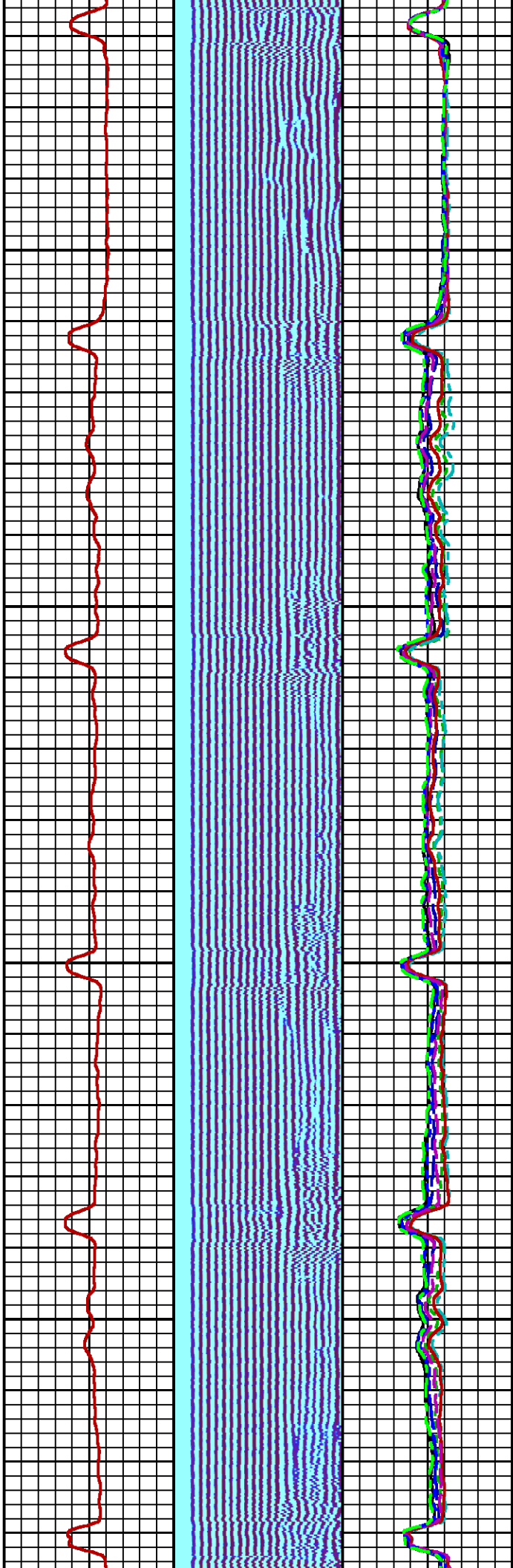
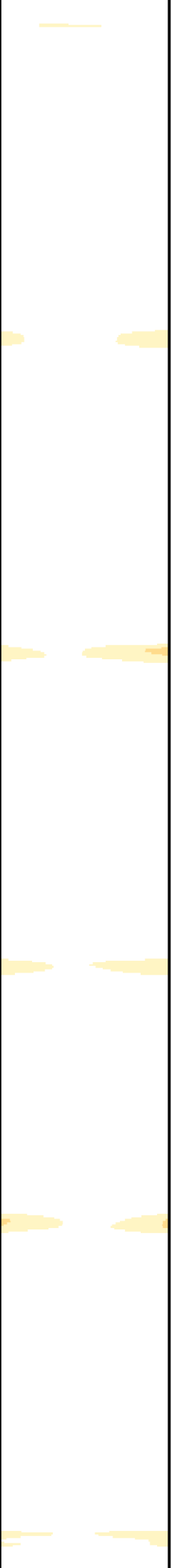
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

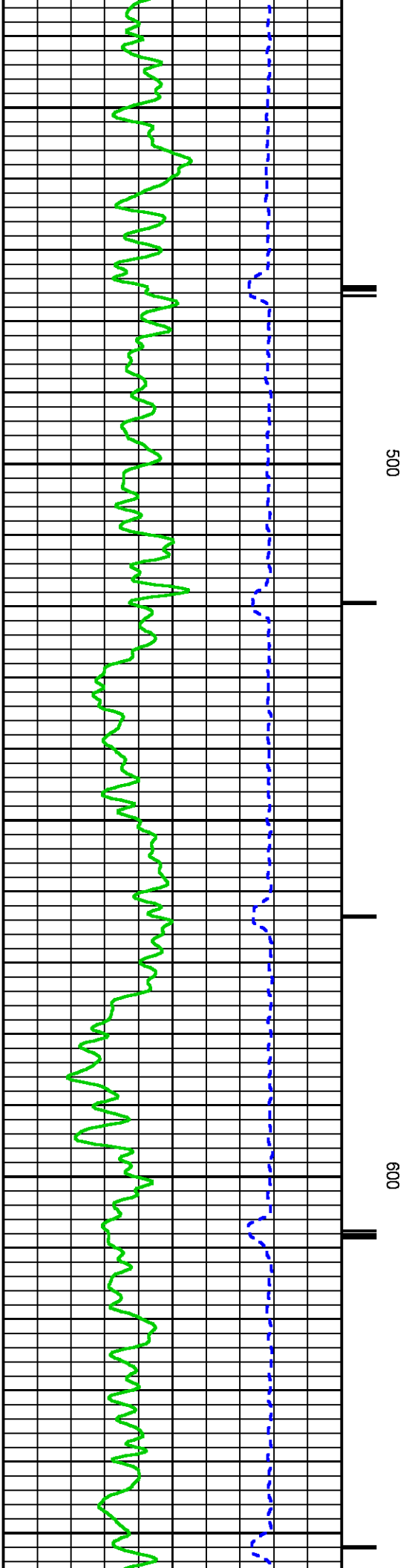
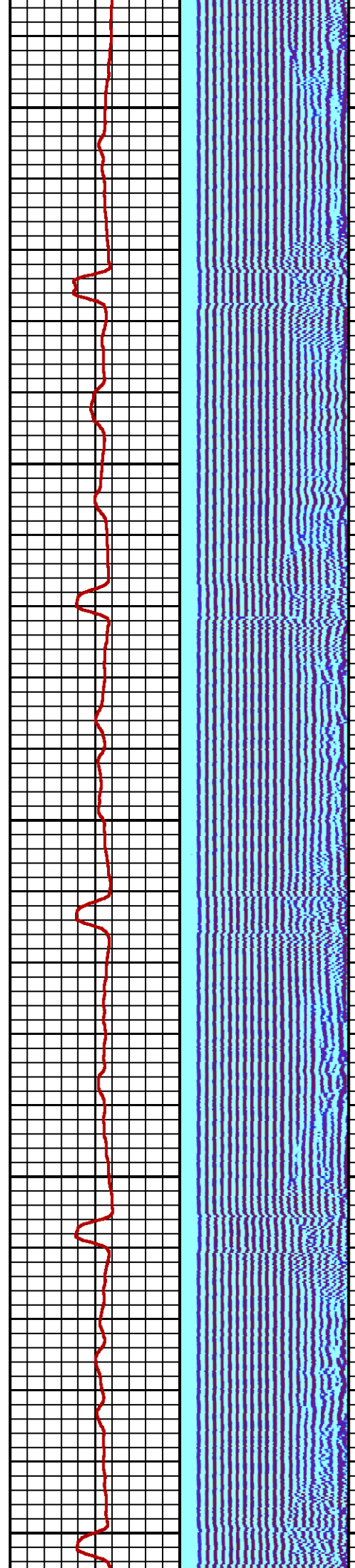
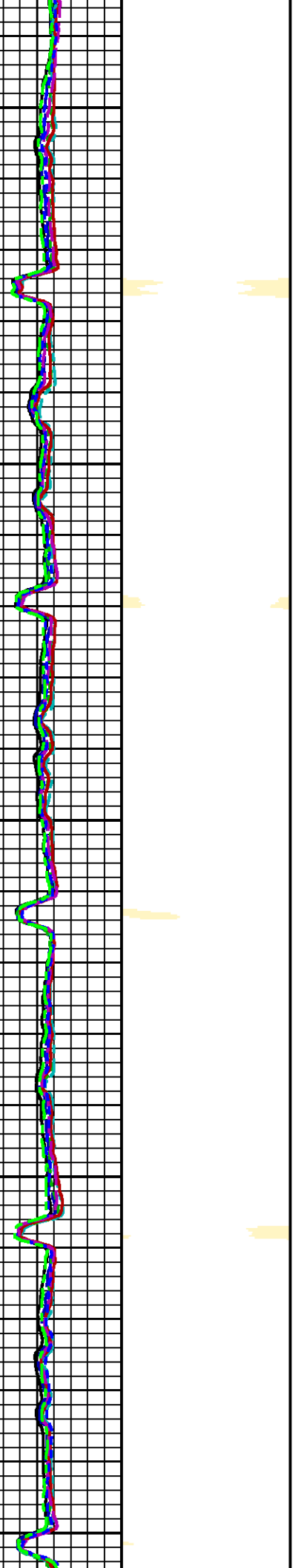
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Created On	: Jan 7 09:03:42 2015
Company	: WPX ENERGY ROCKY MTN LLC
Well	: FEDERAL PA 444-27
Field	: PARACHUTE
File Interval	: 17.5 - 8487 Feet
OCT	: n012e

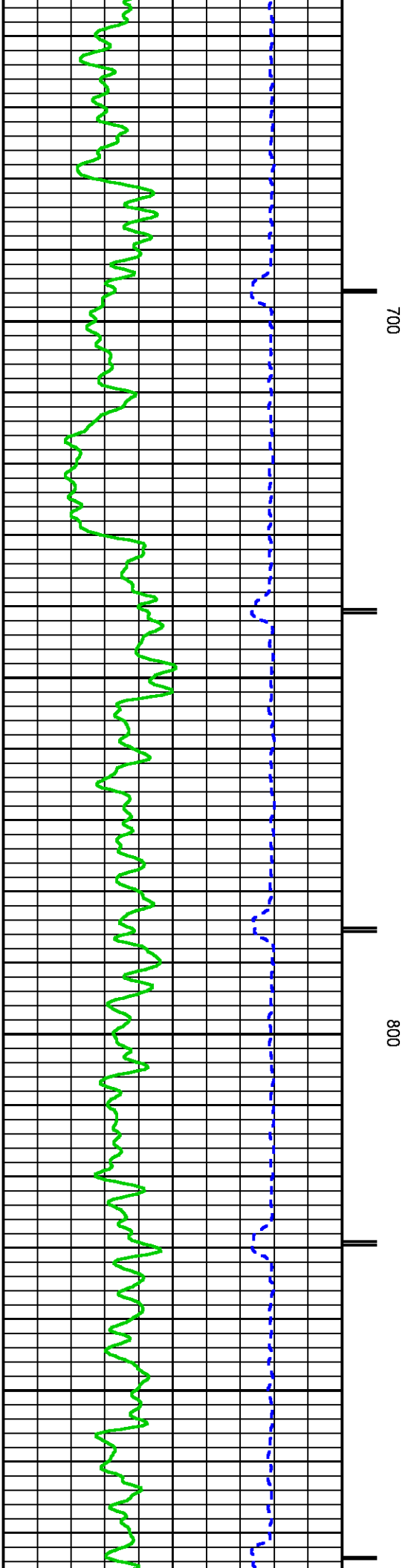
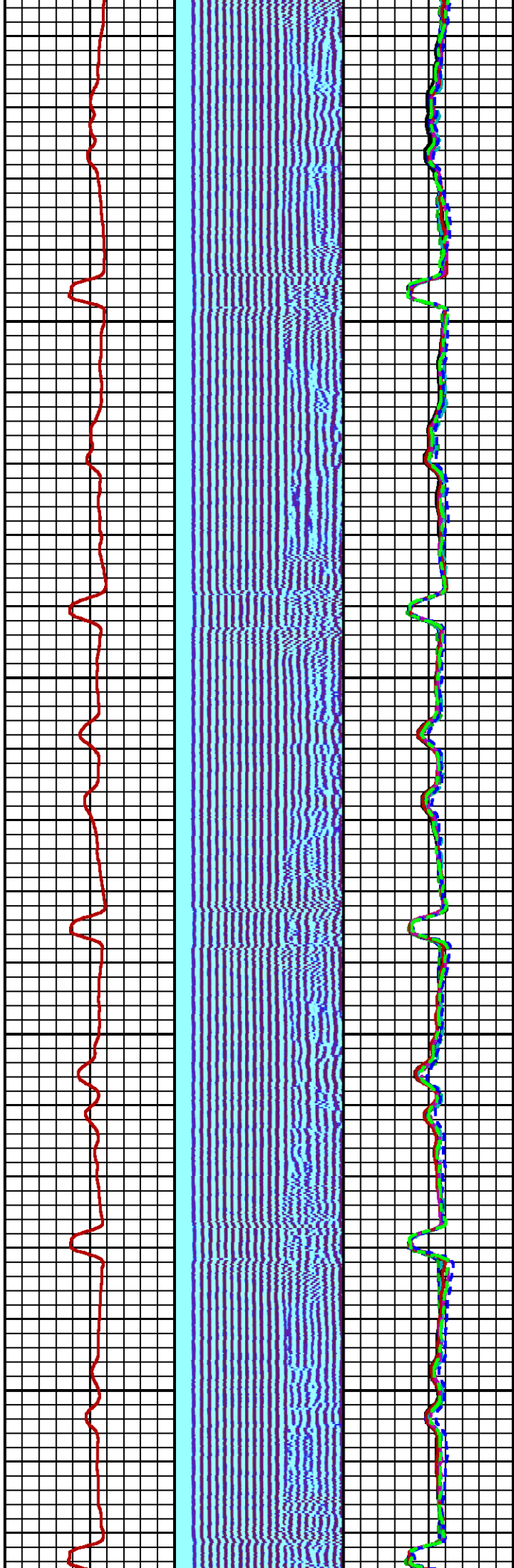
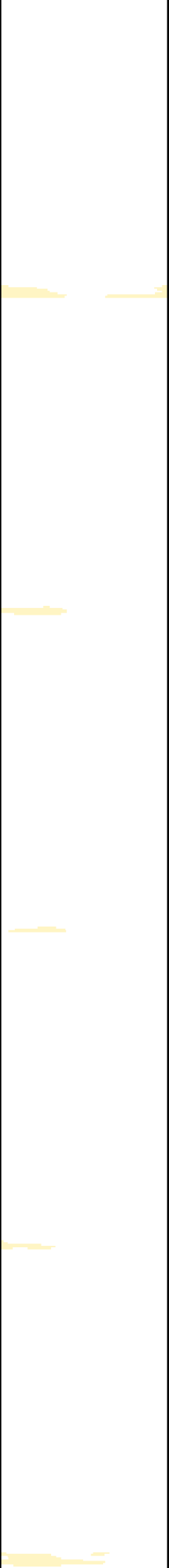


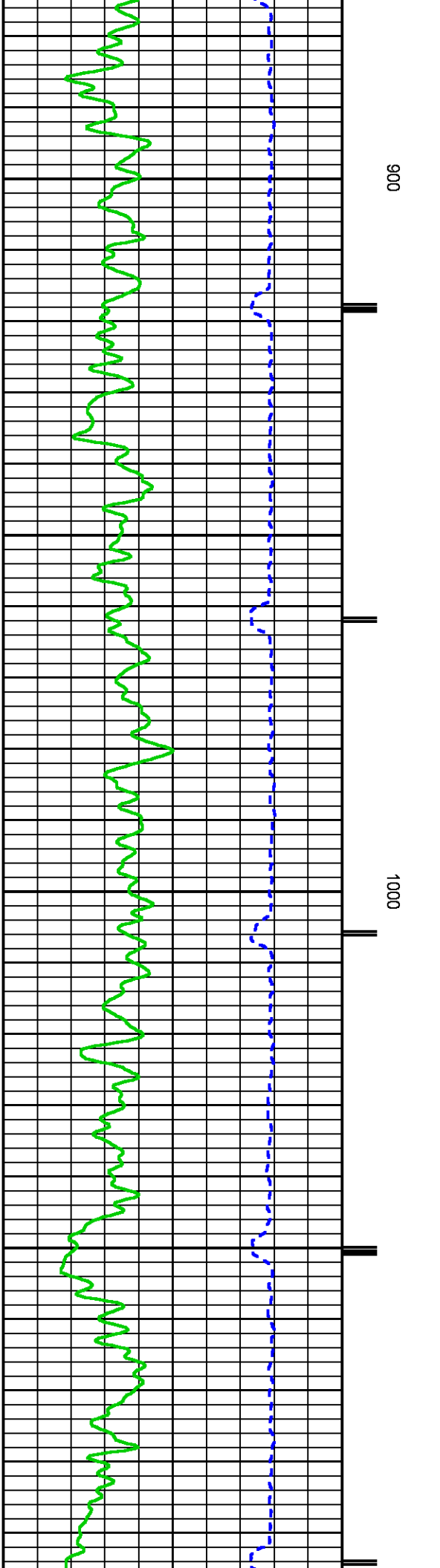
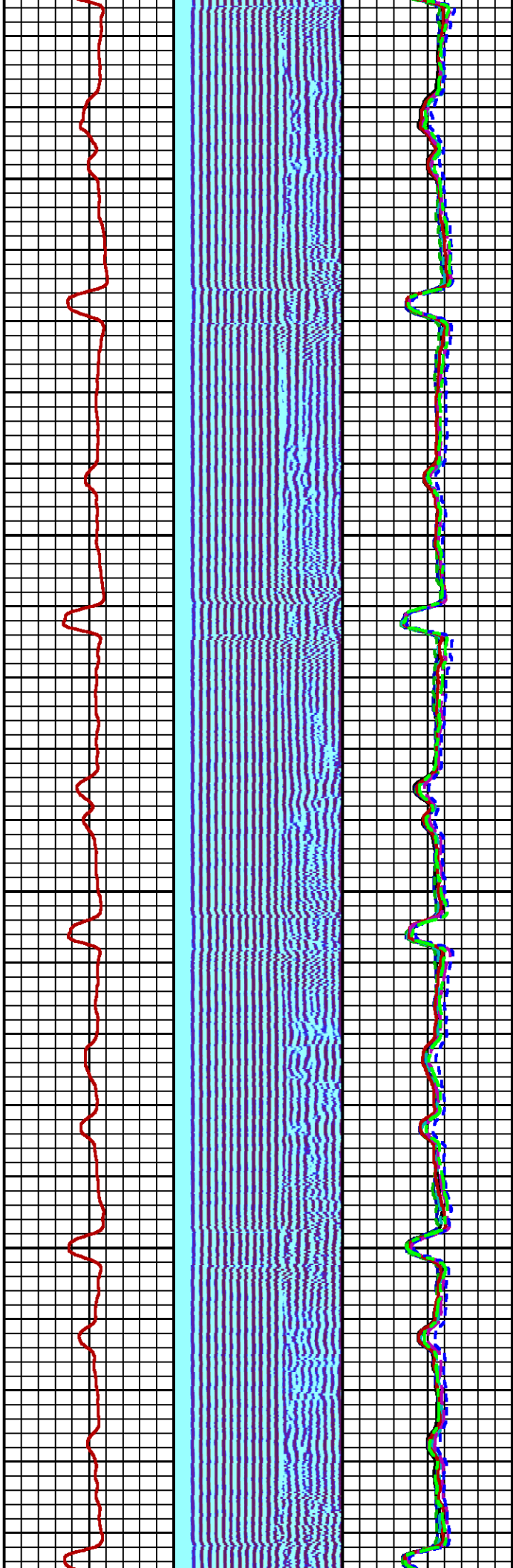
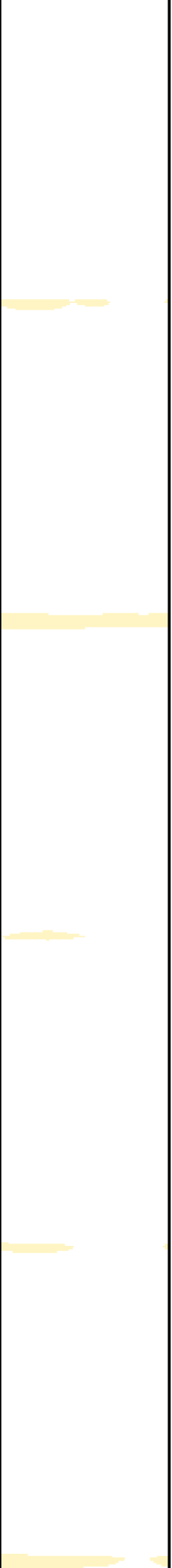




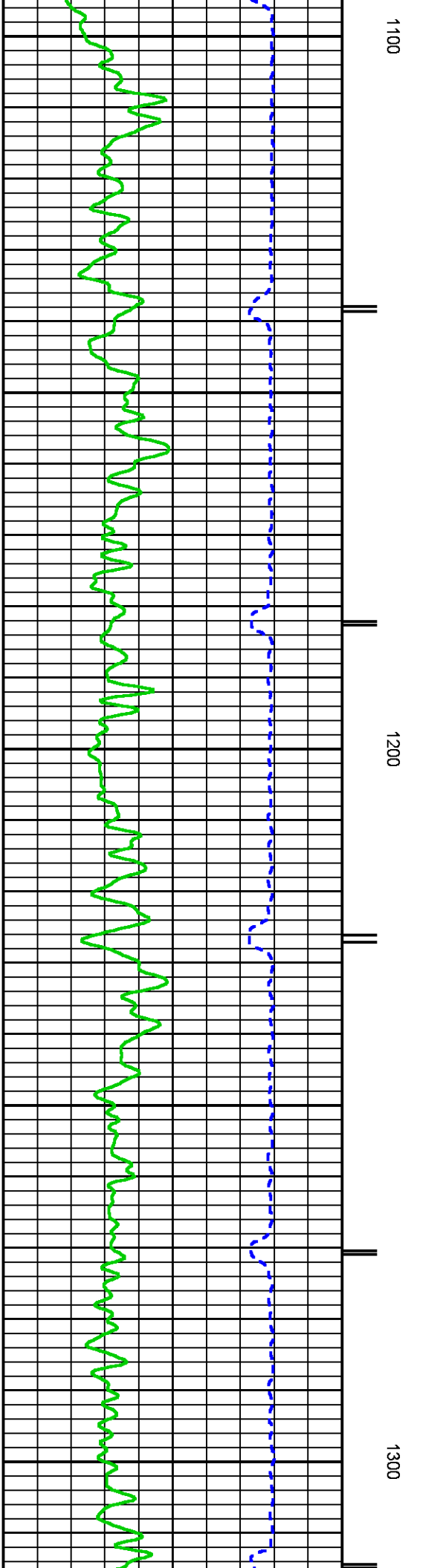
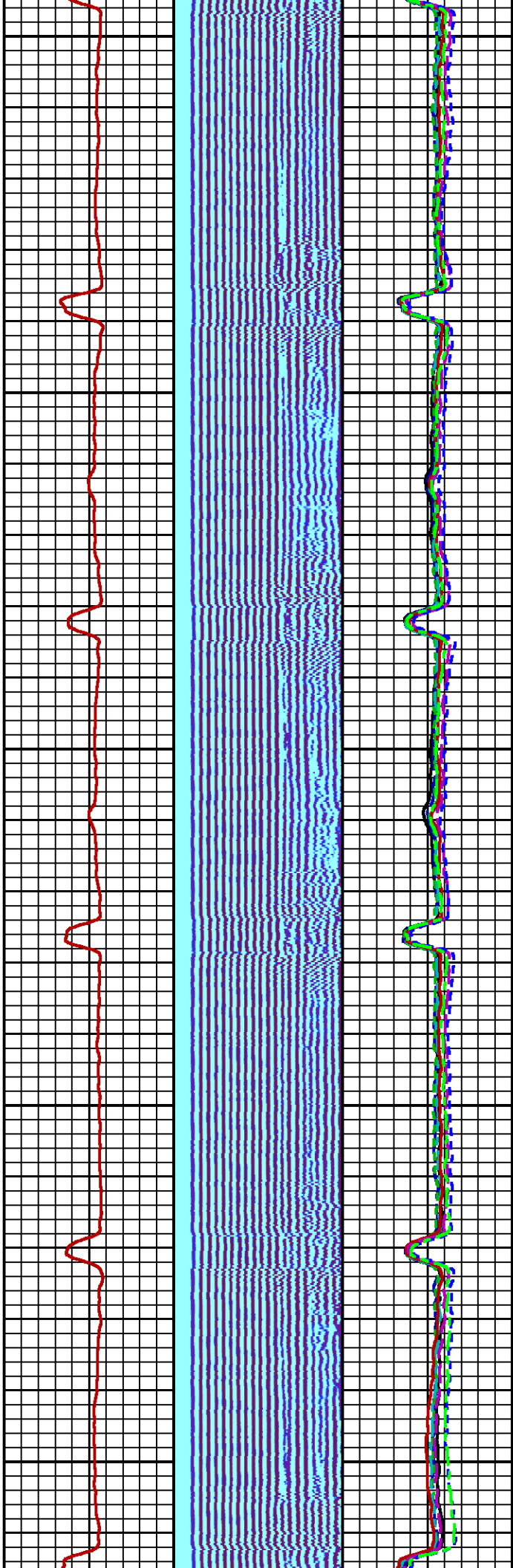
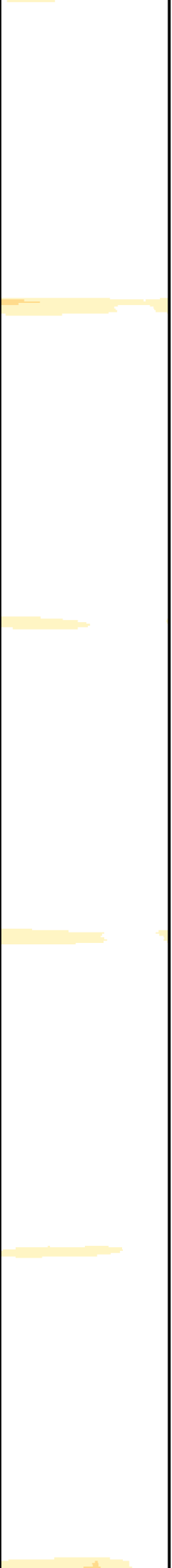


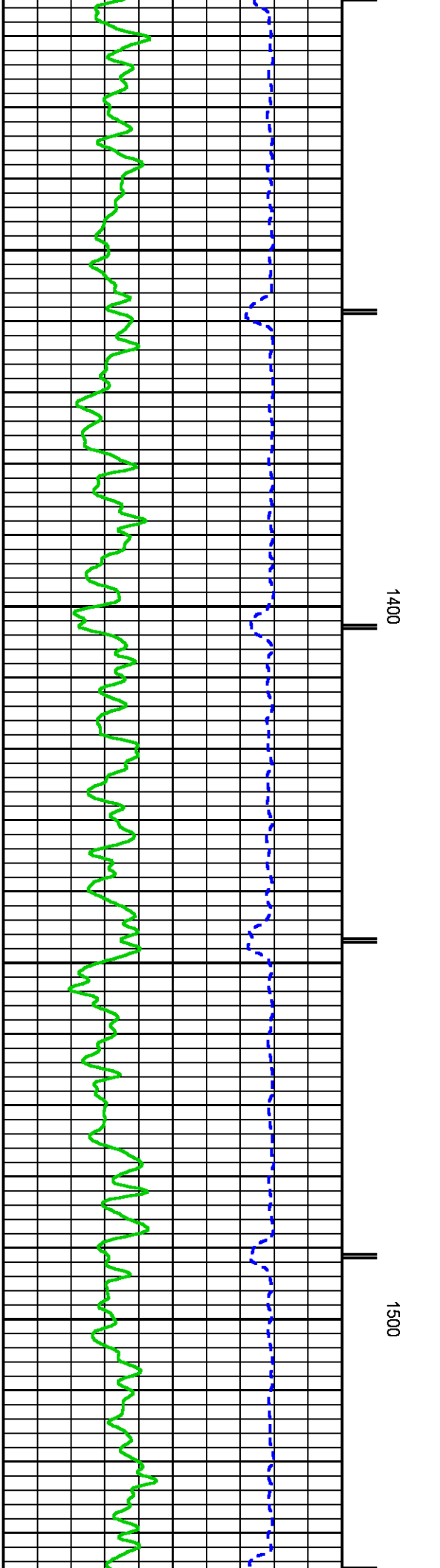
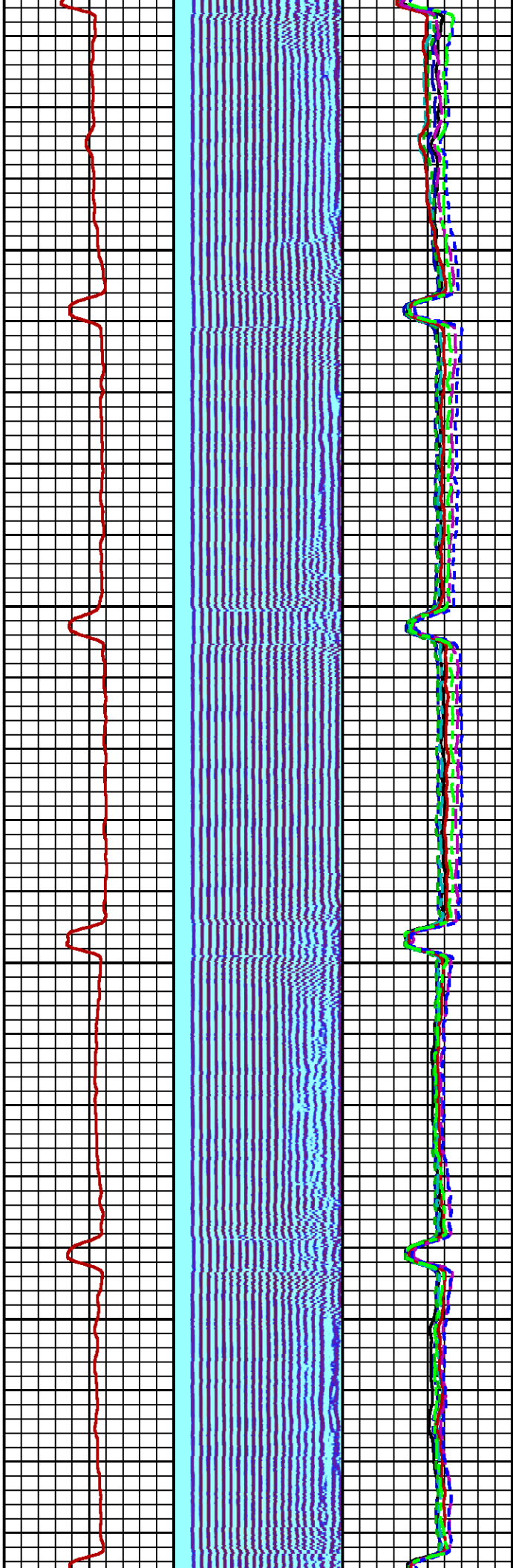
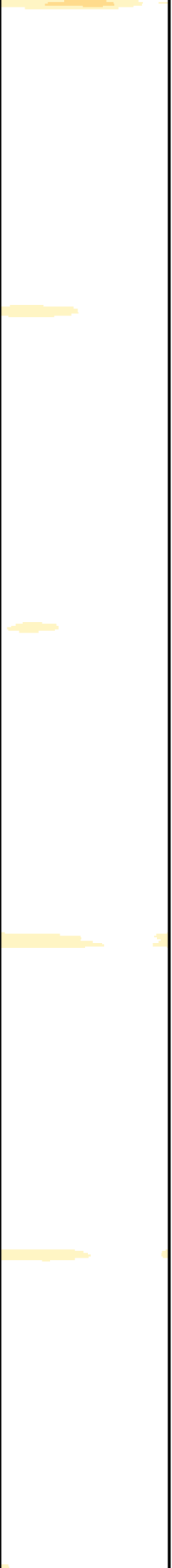


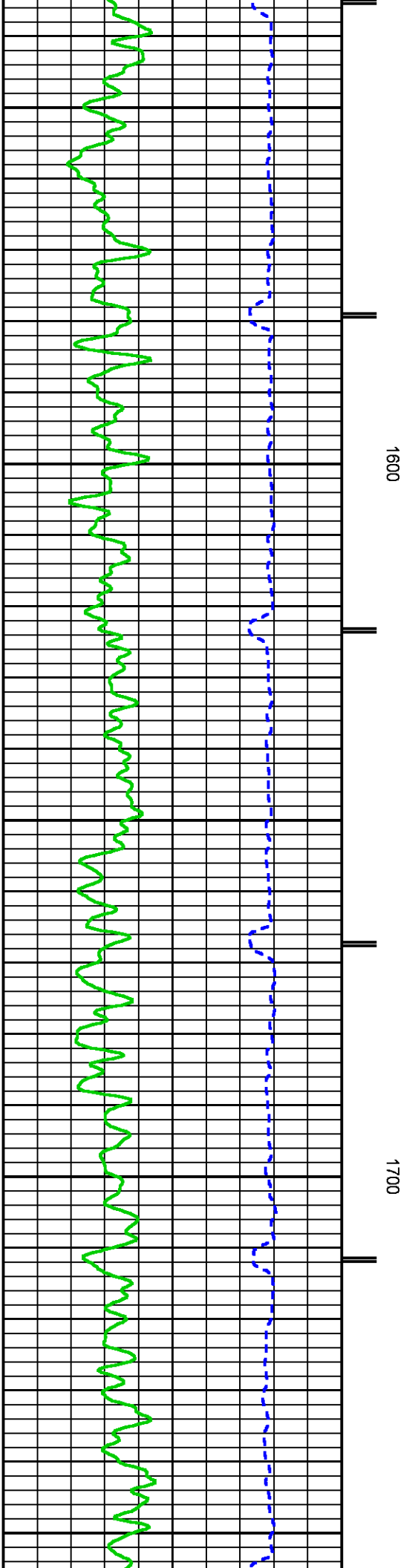
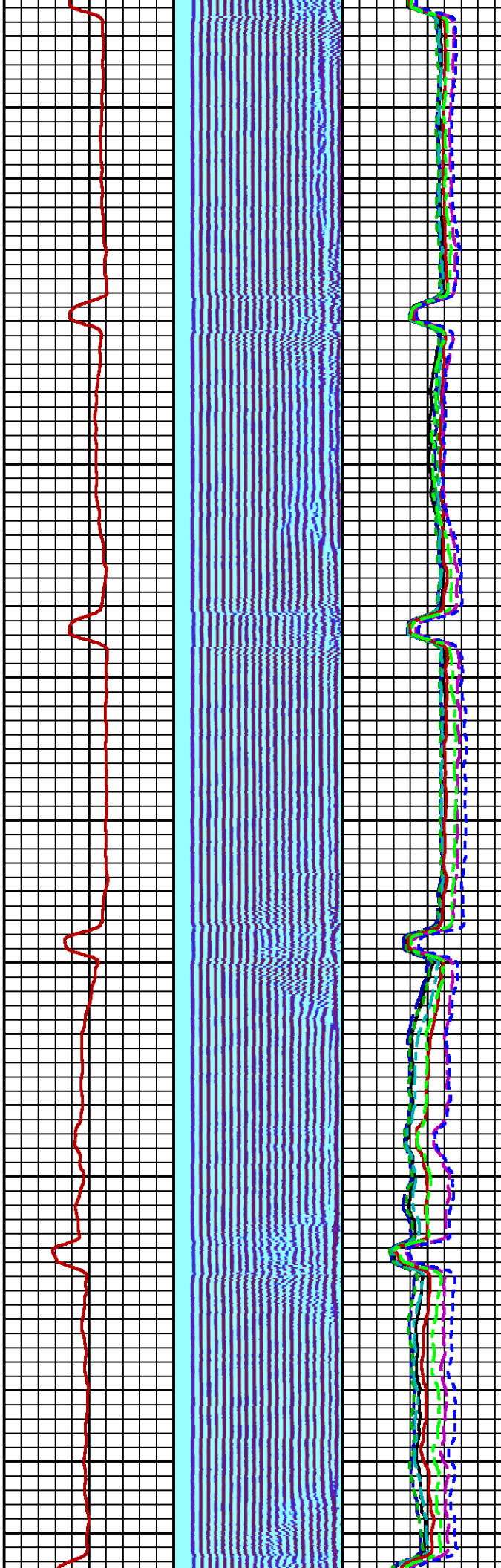
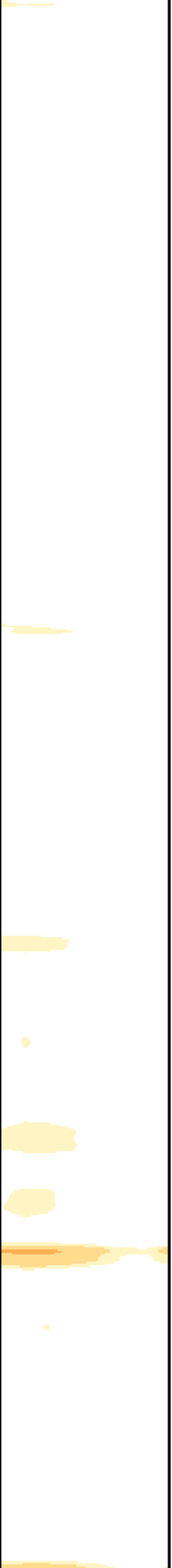


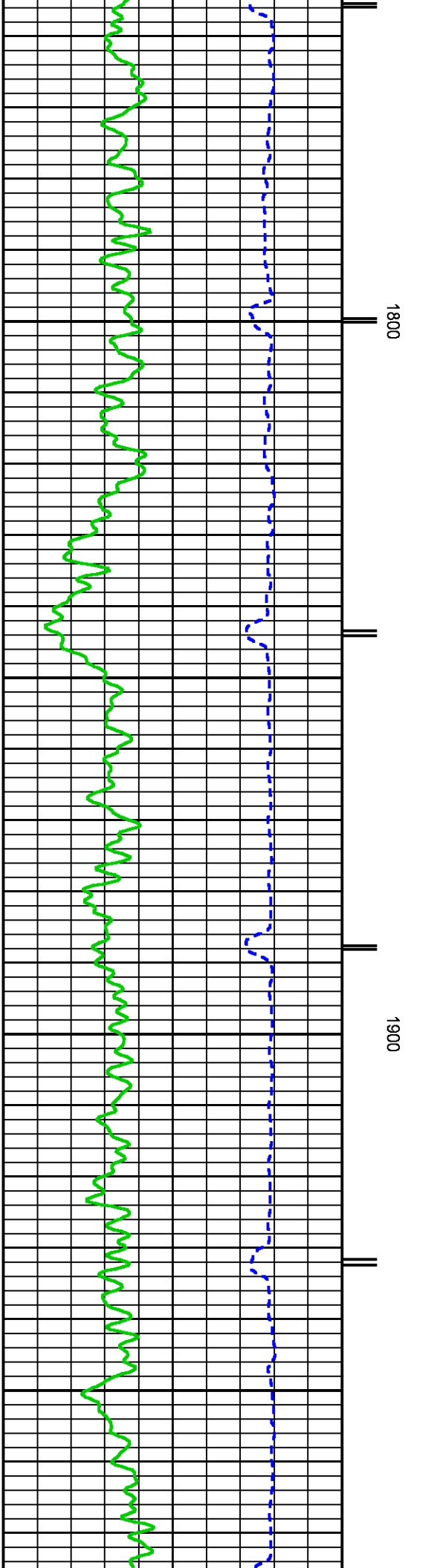
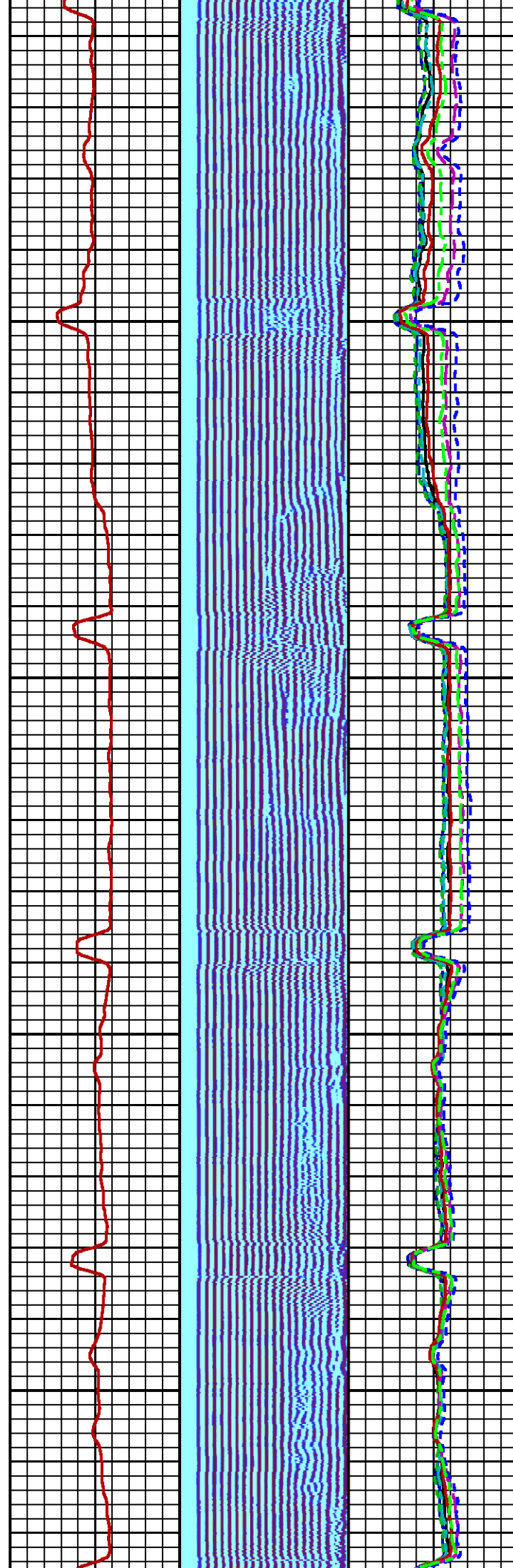
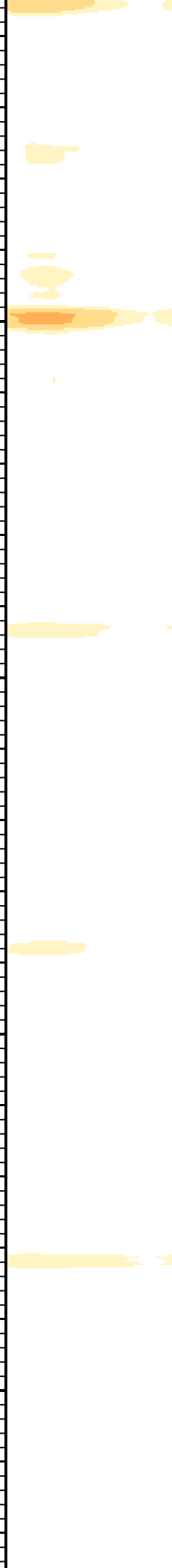








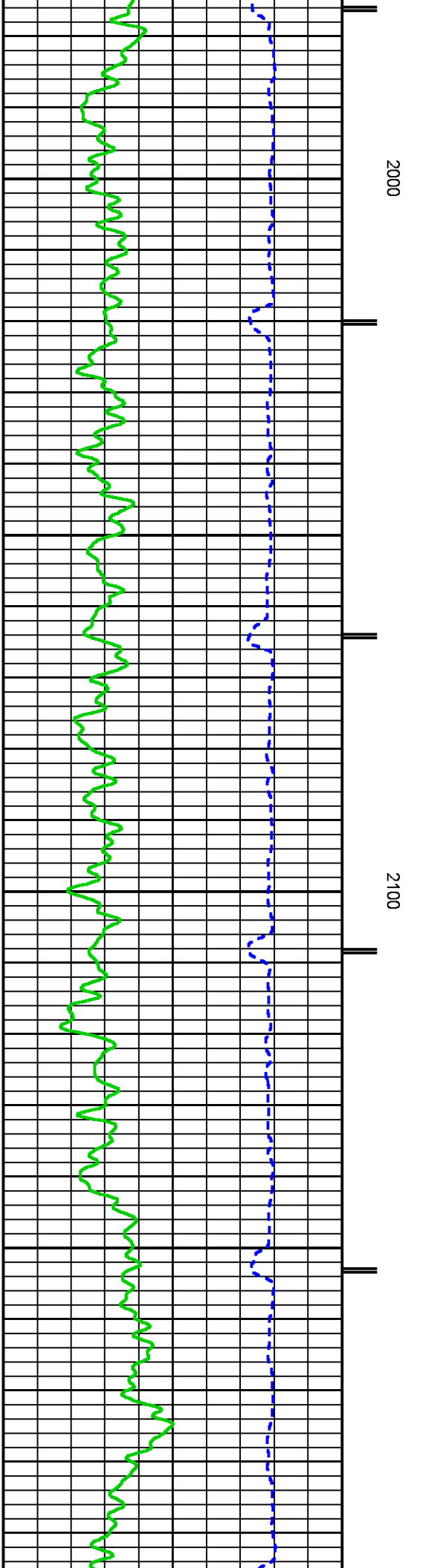
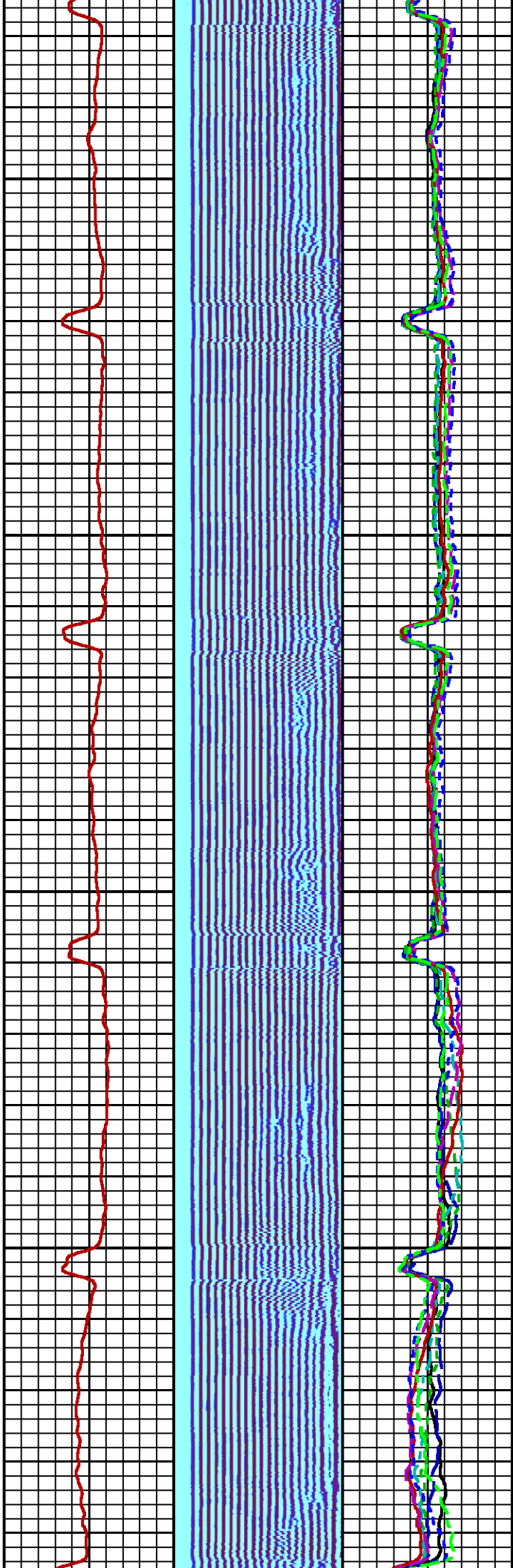
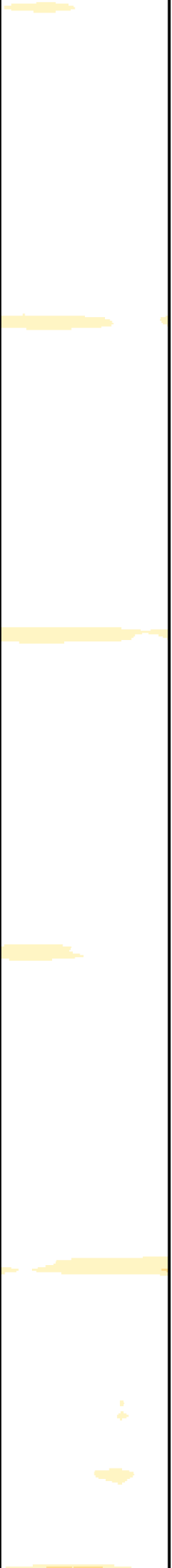


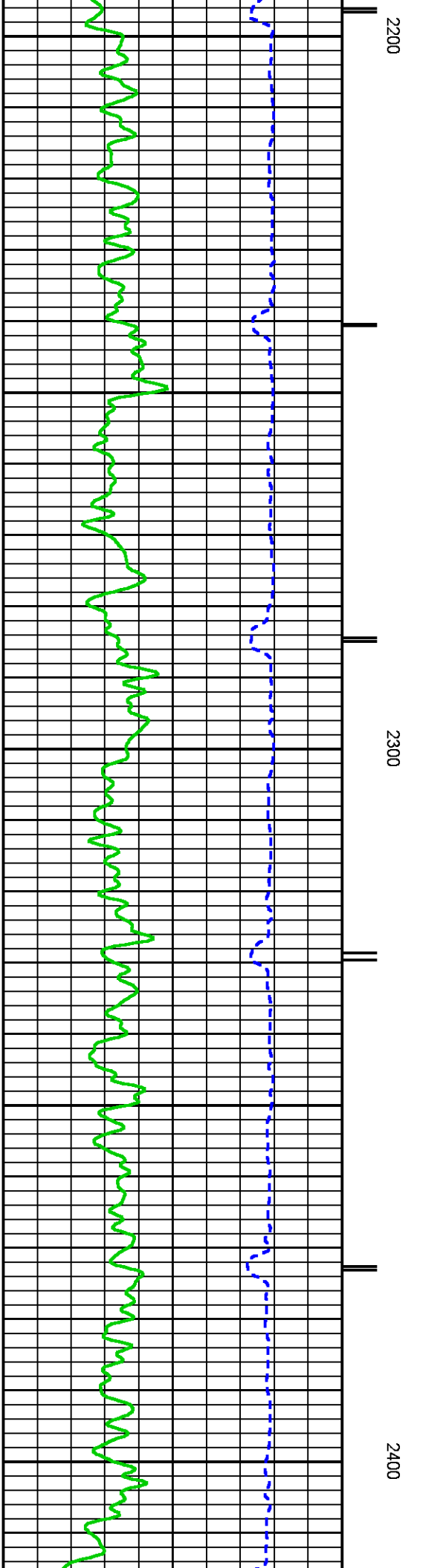
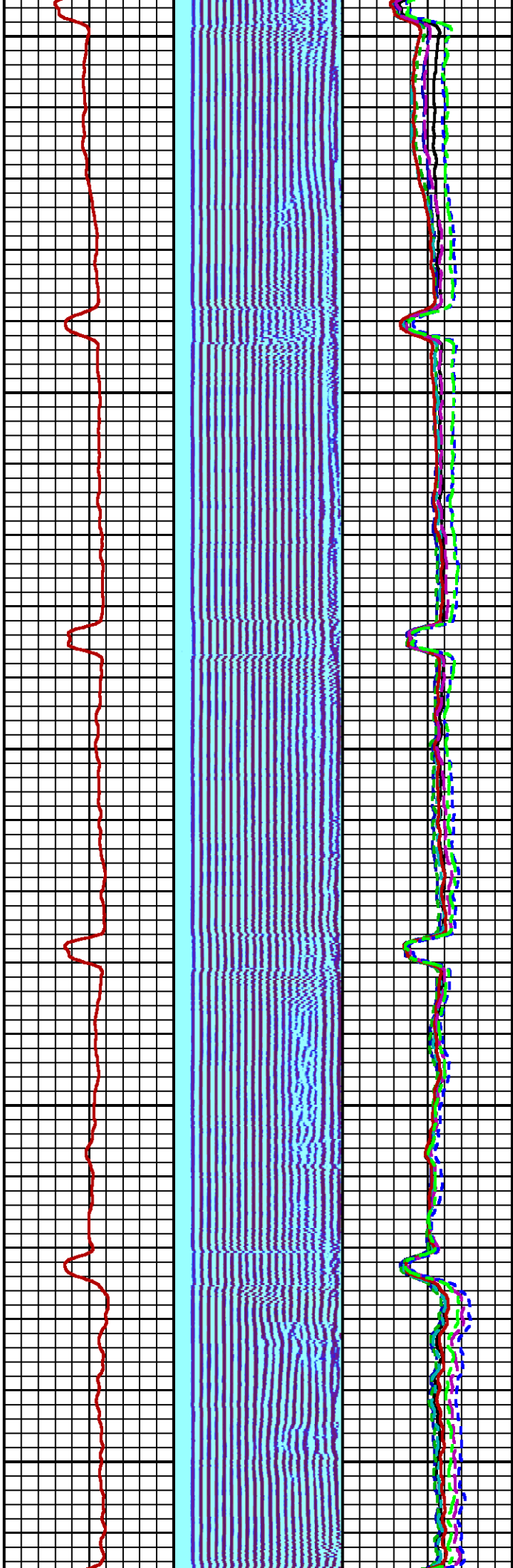
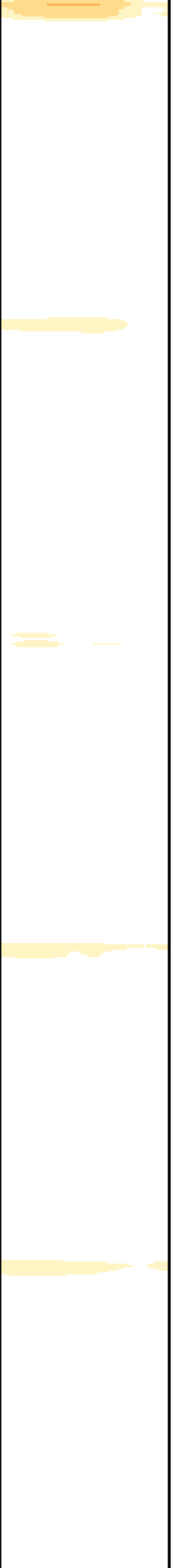


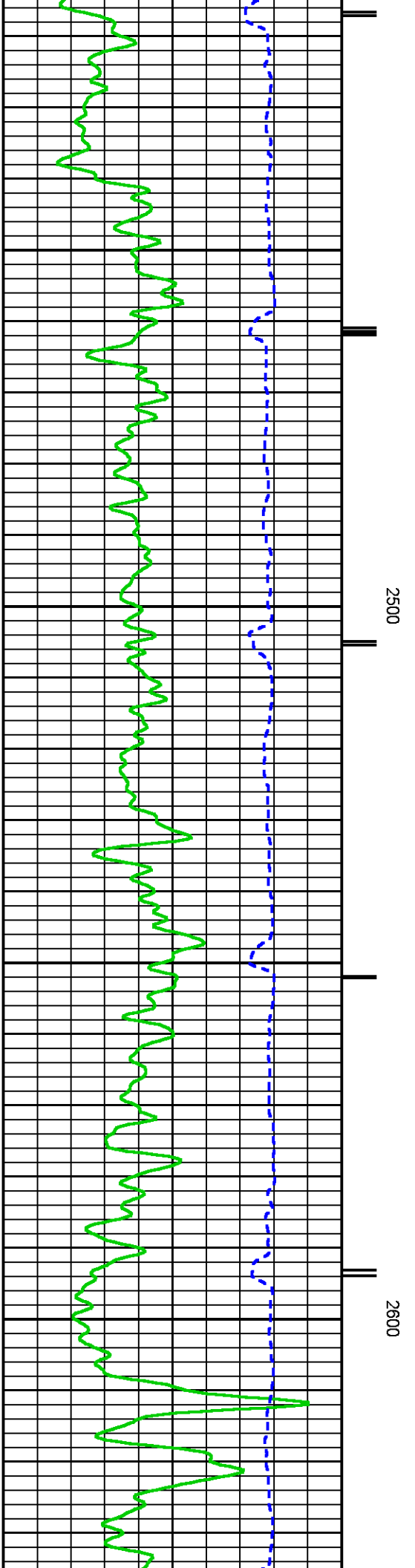
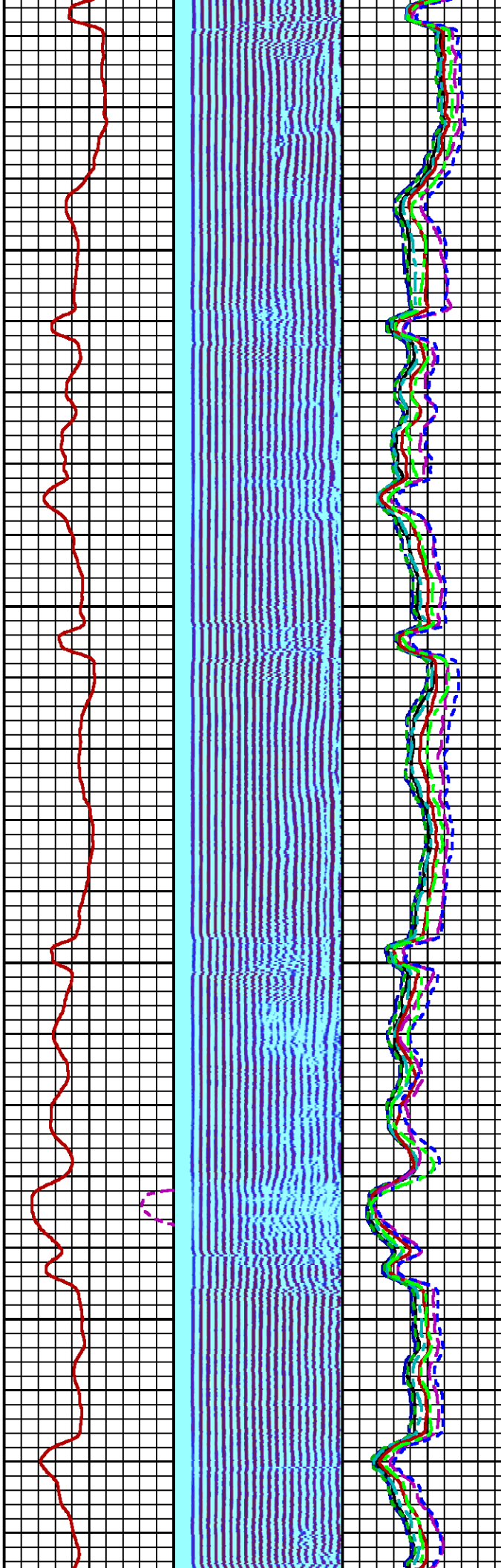
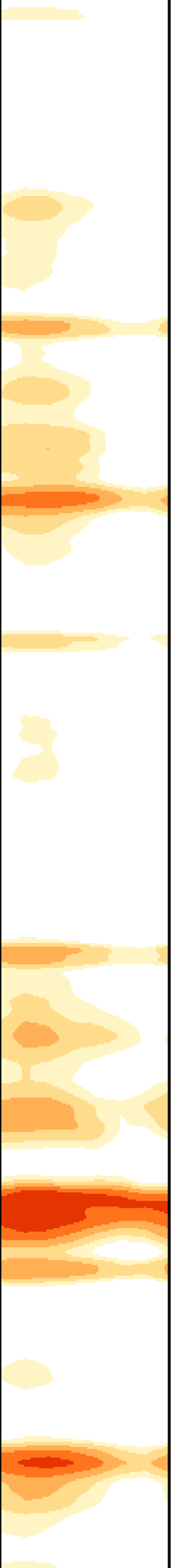
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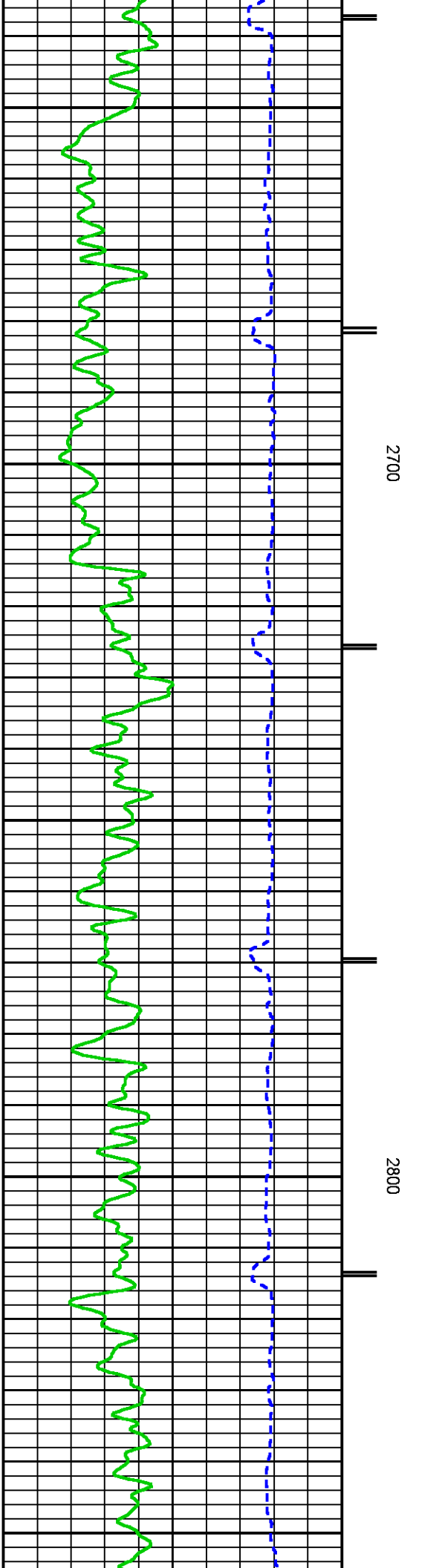
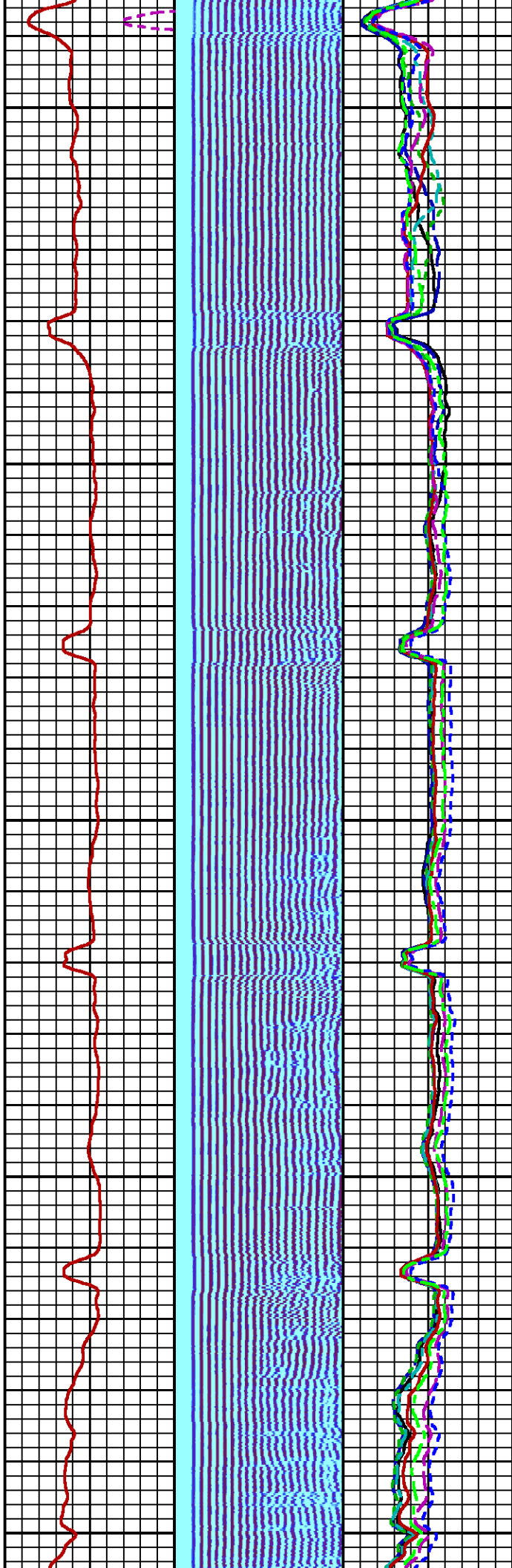
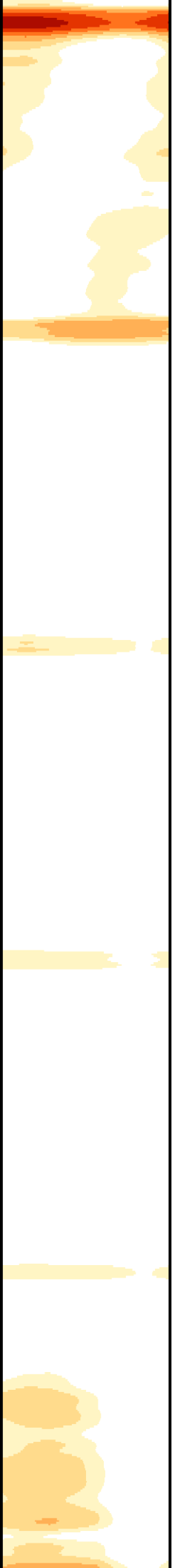
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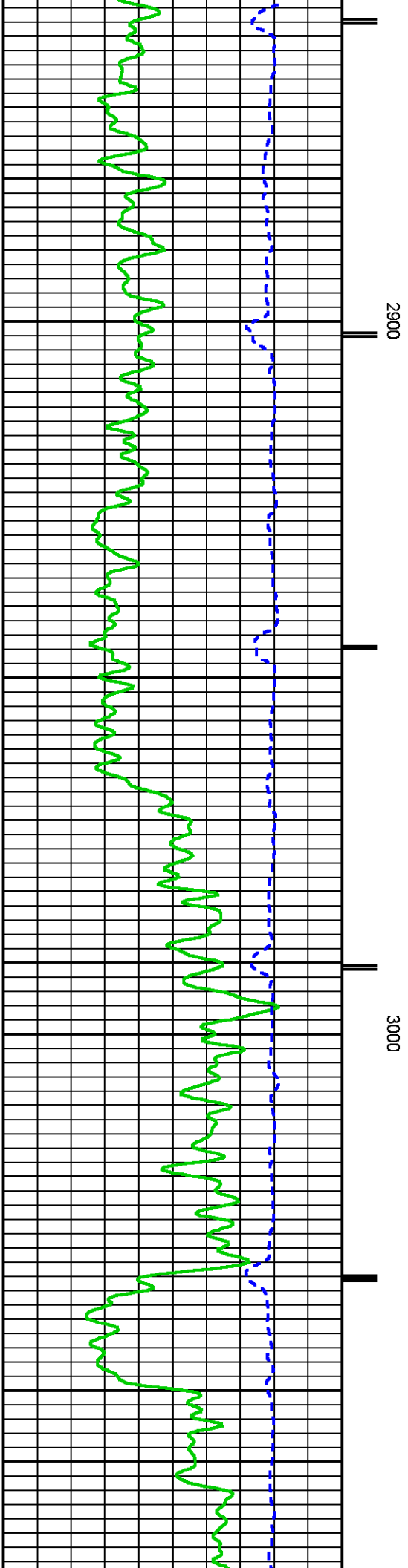
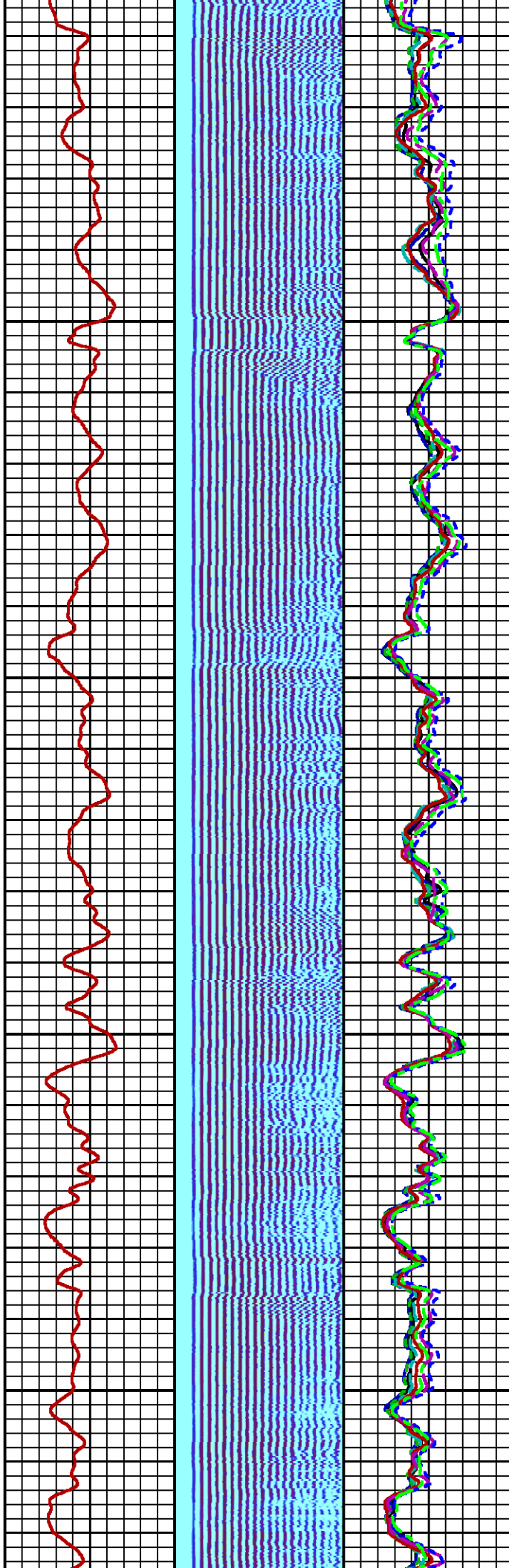


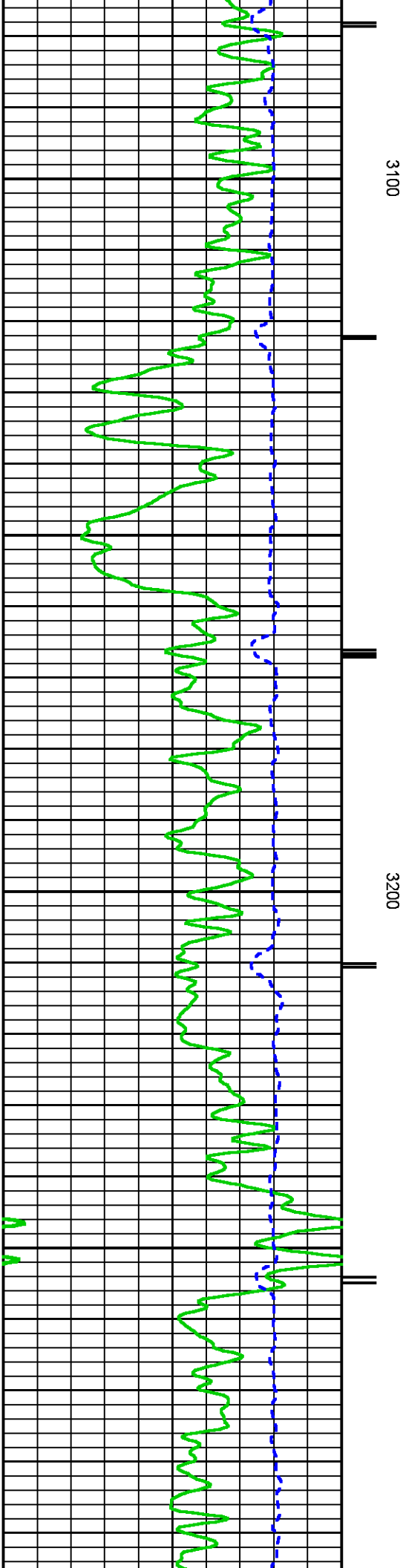
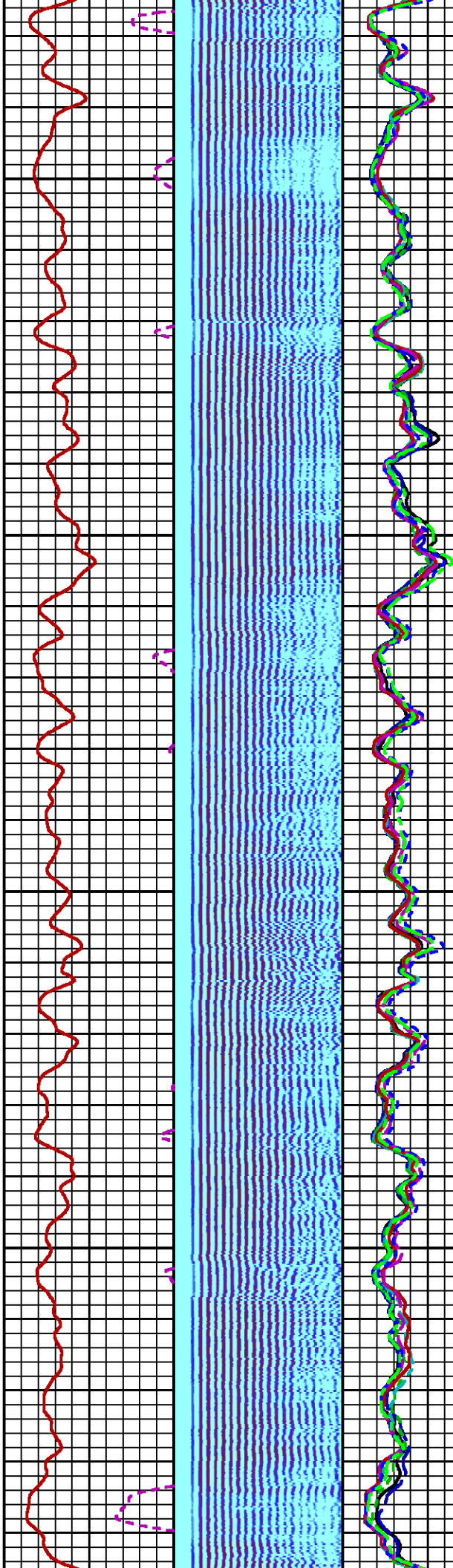
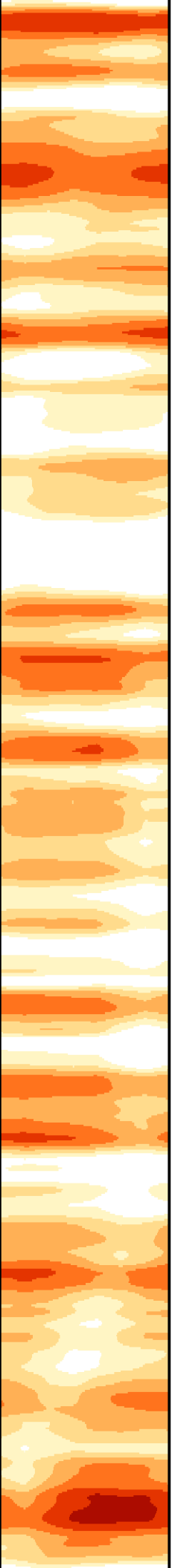


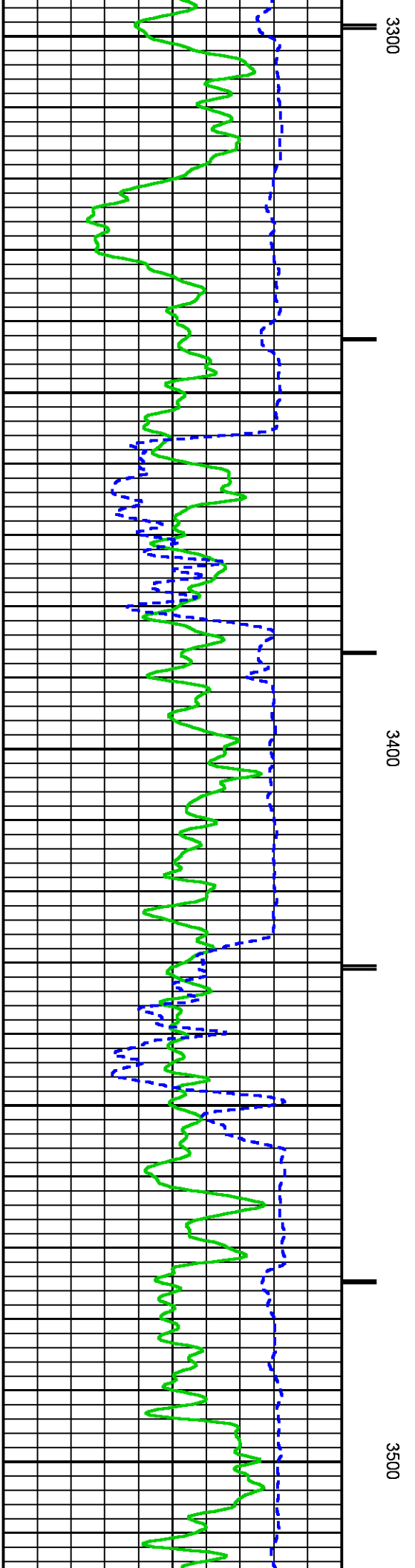
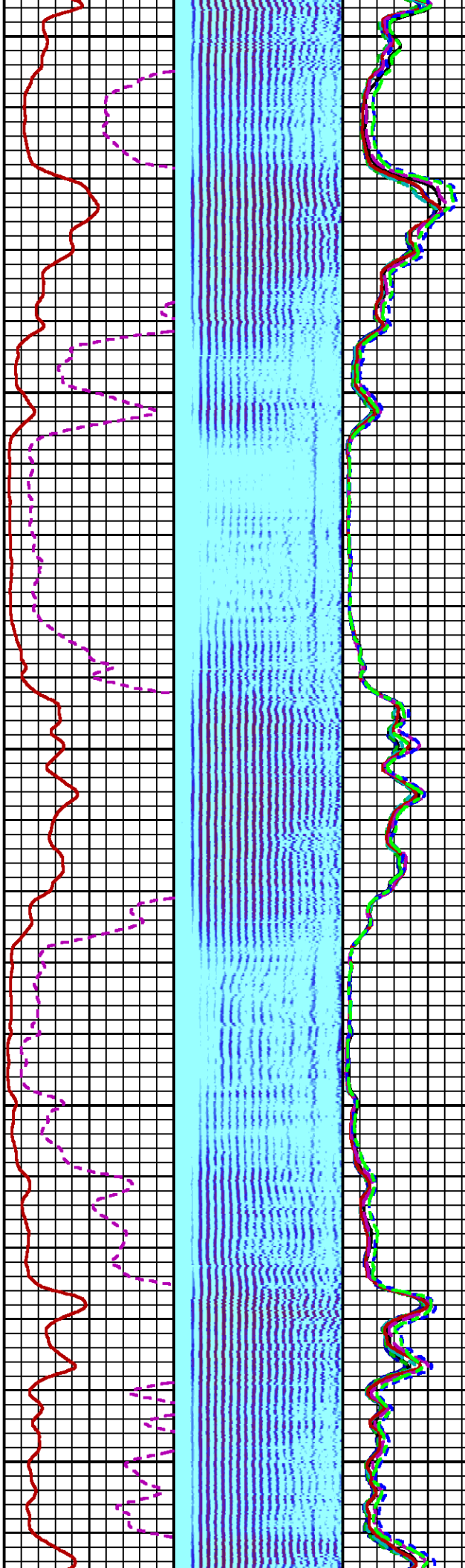
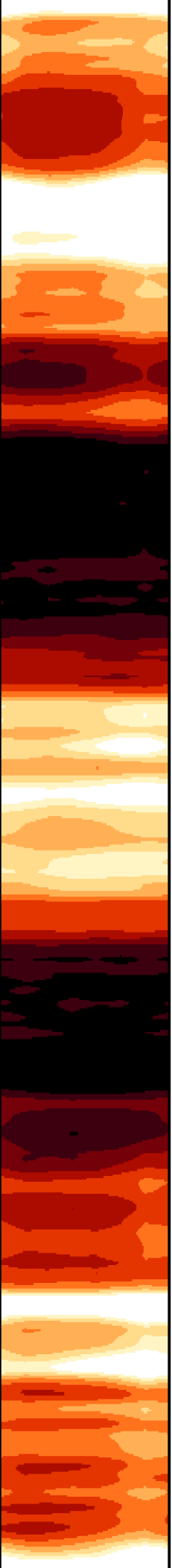


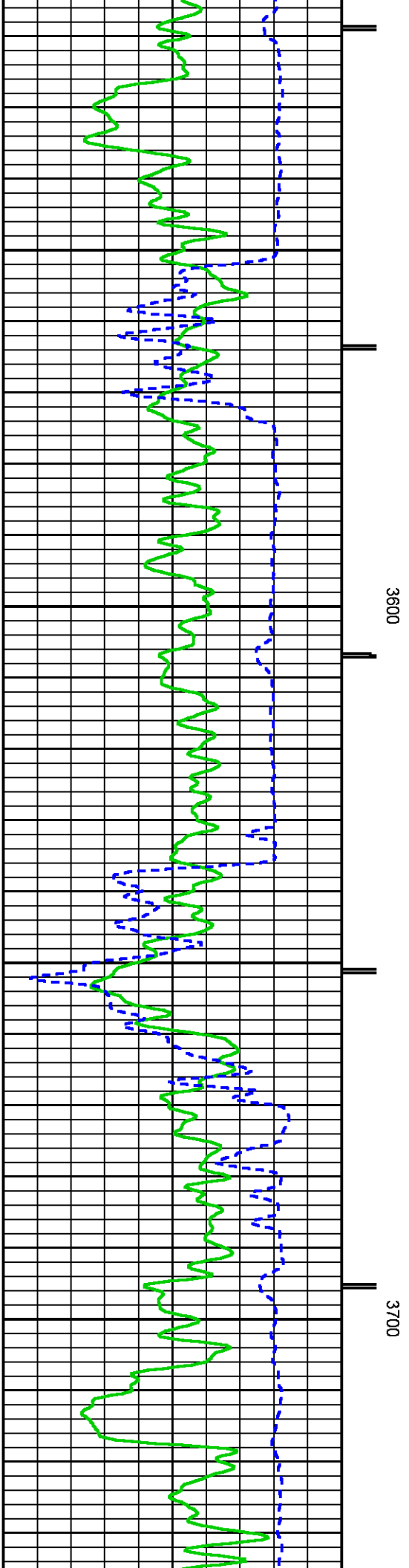
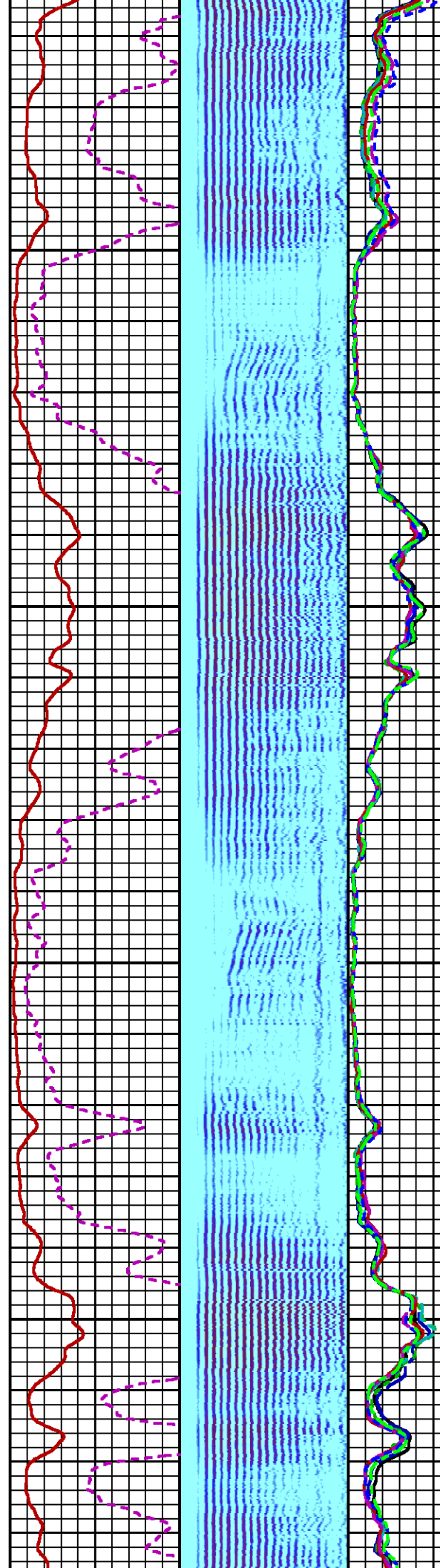
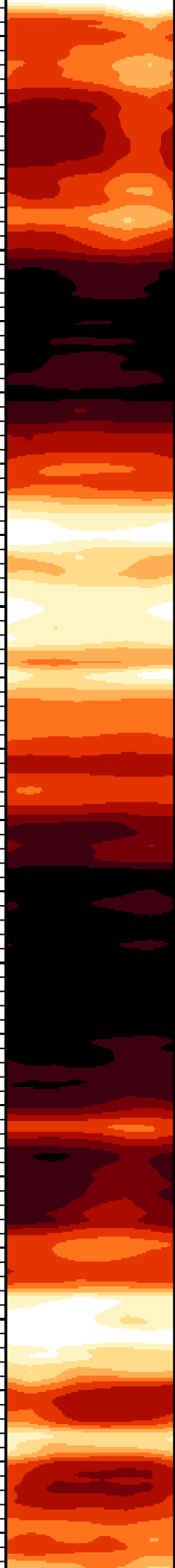




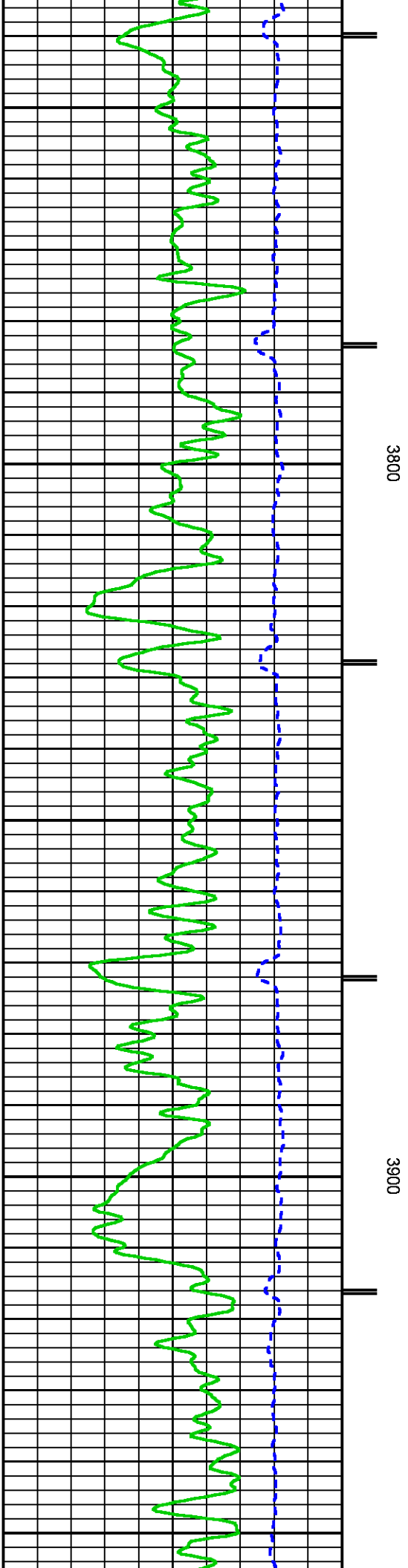
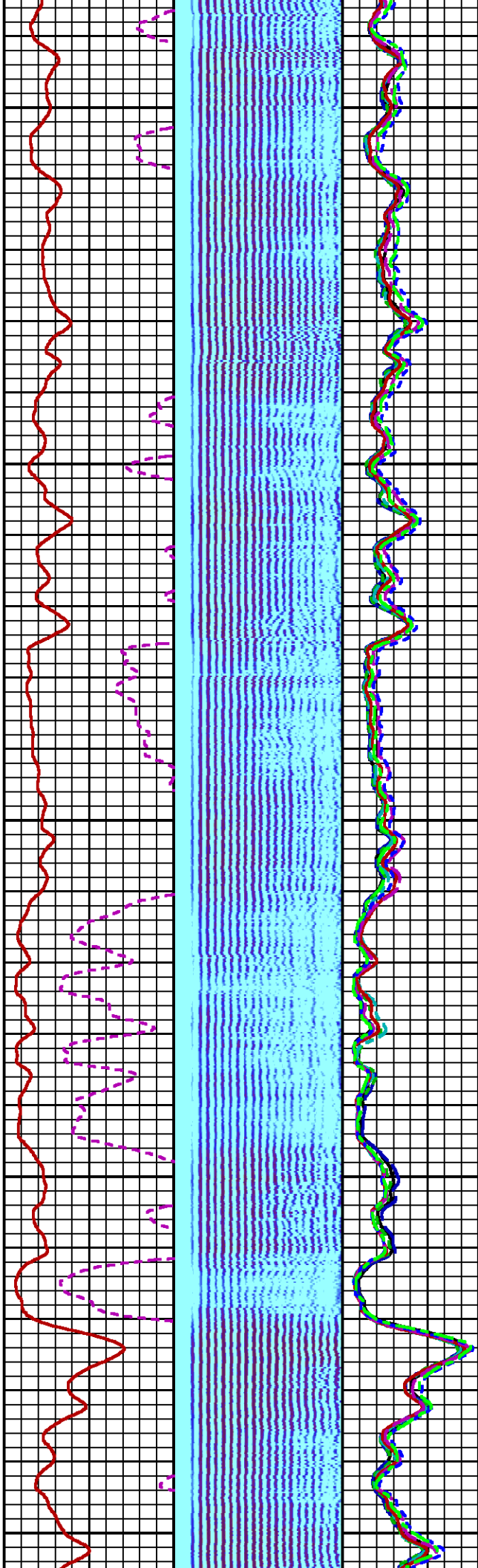


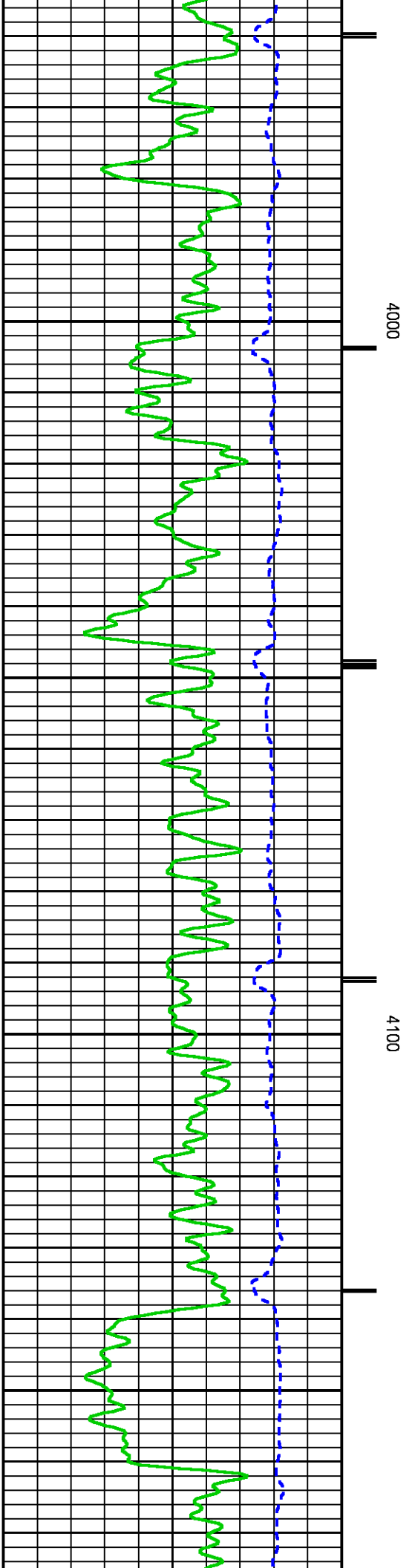
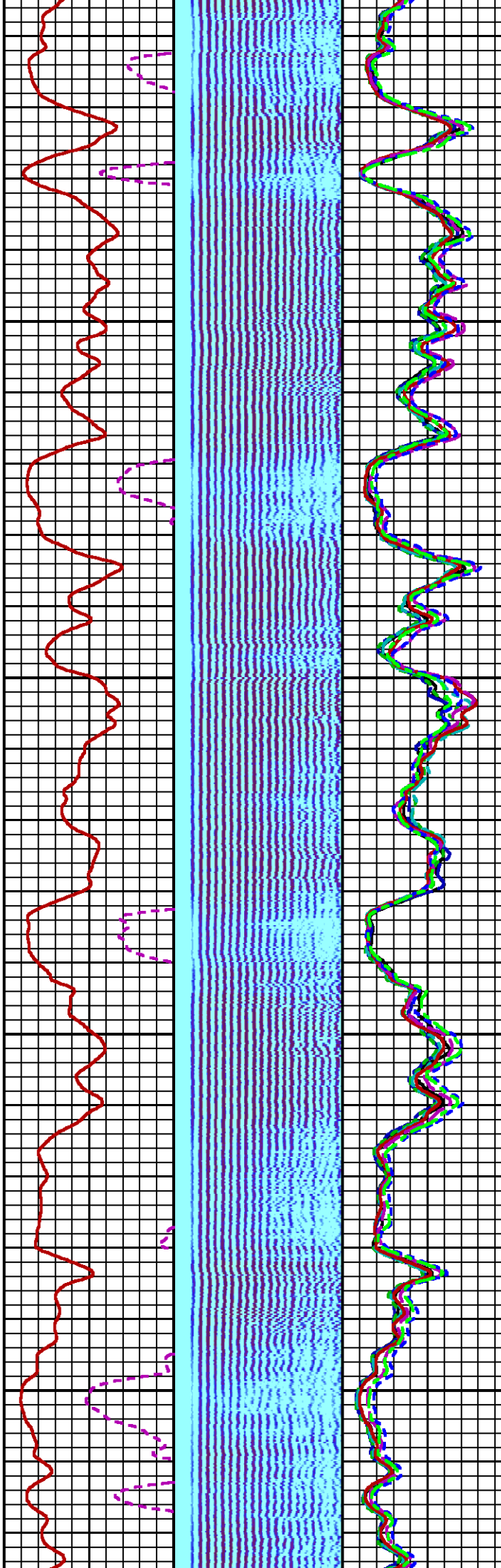
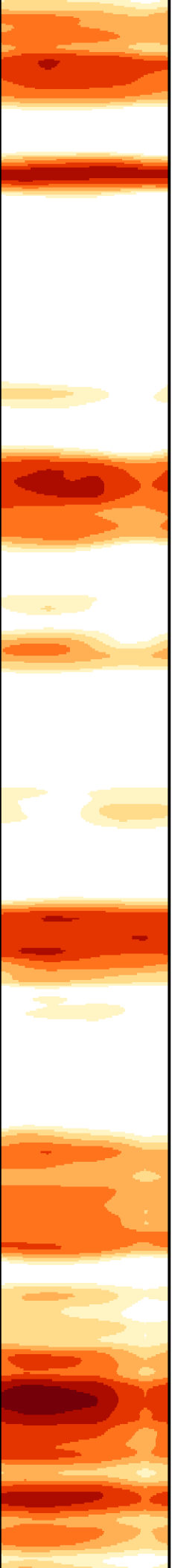


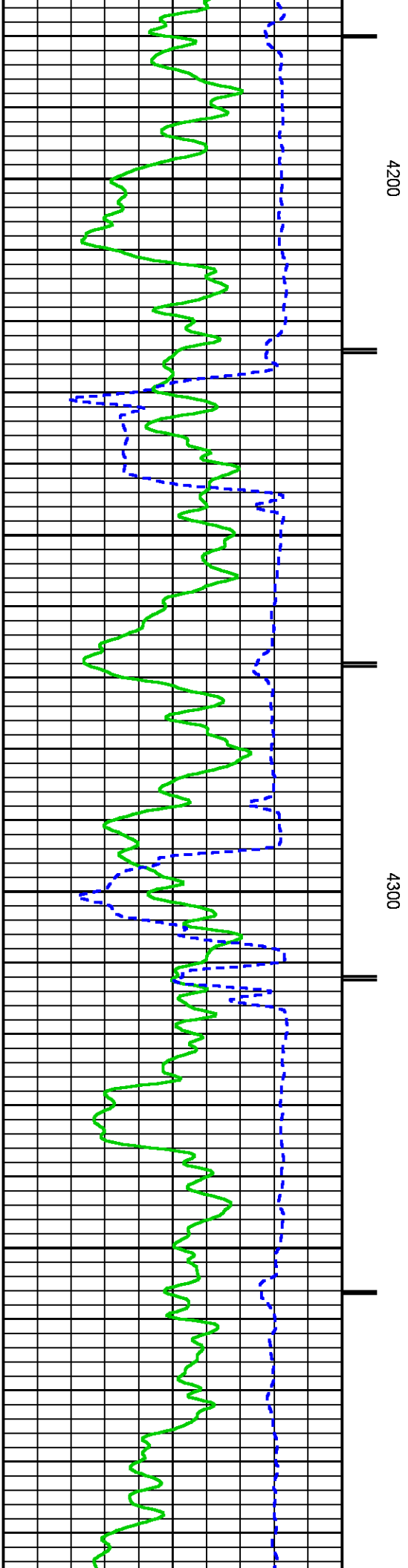
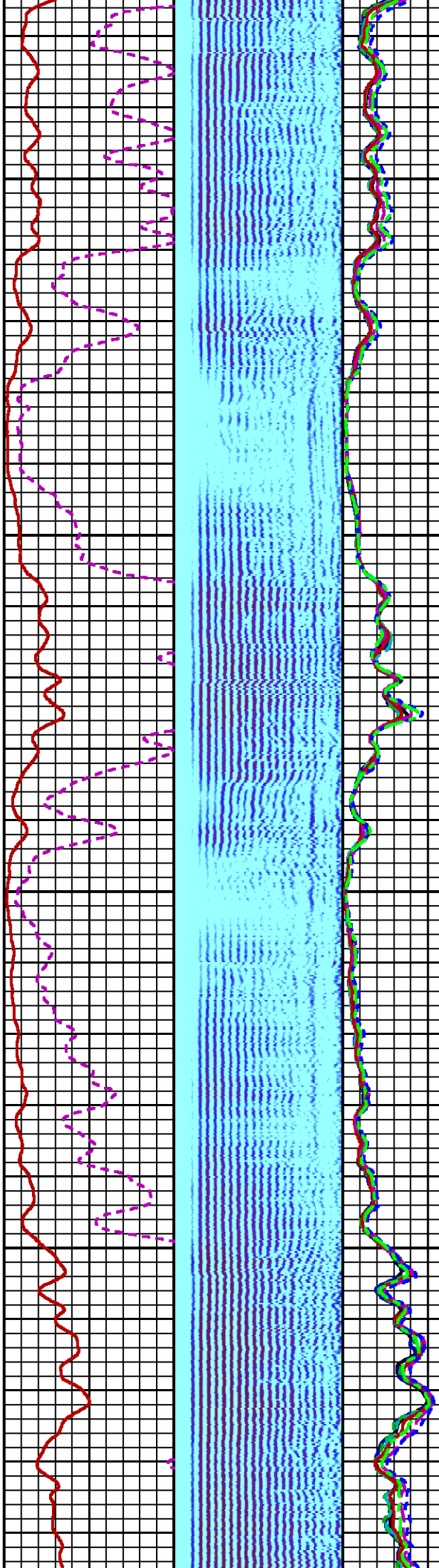


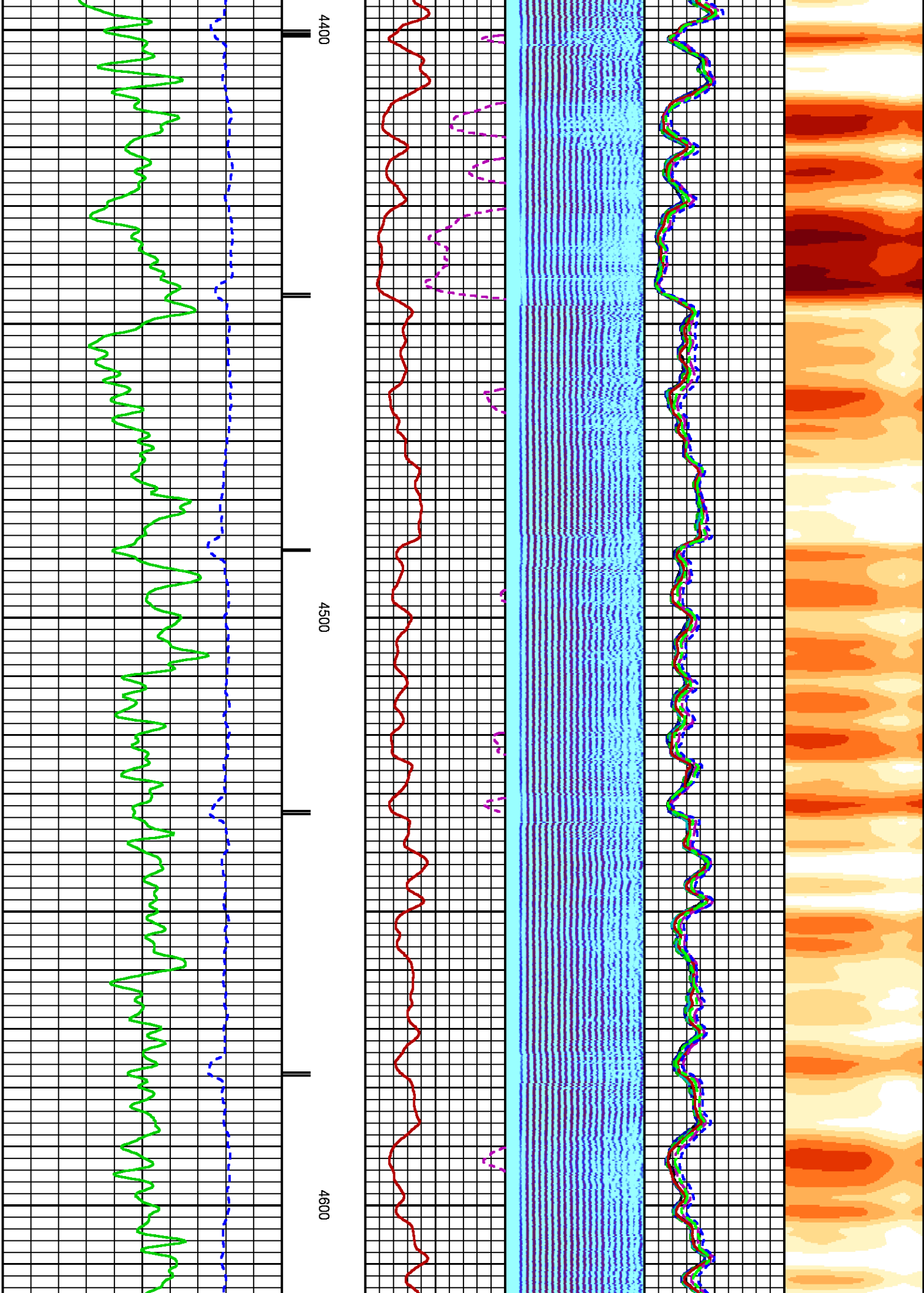




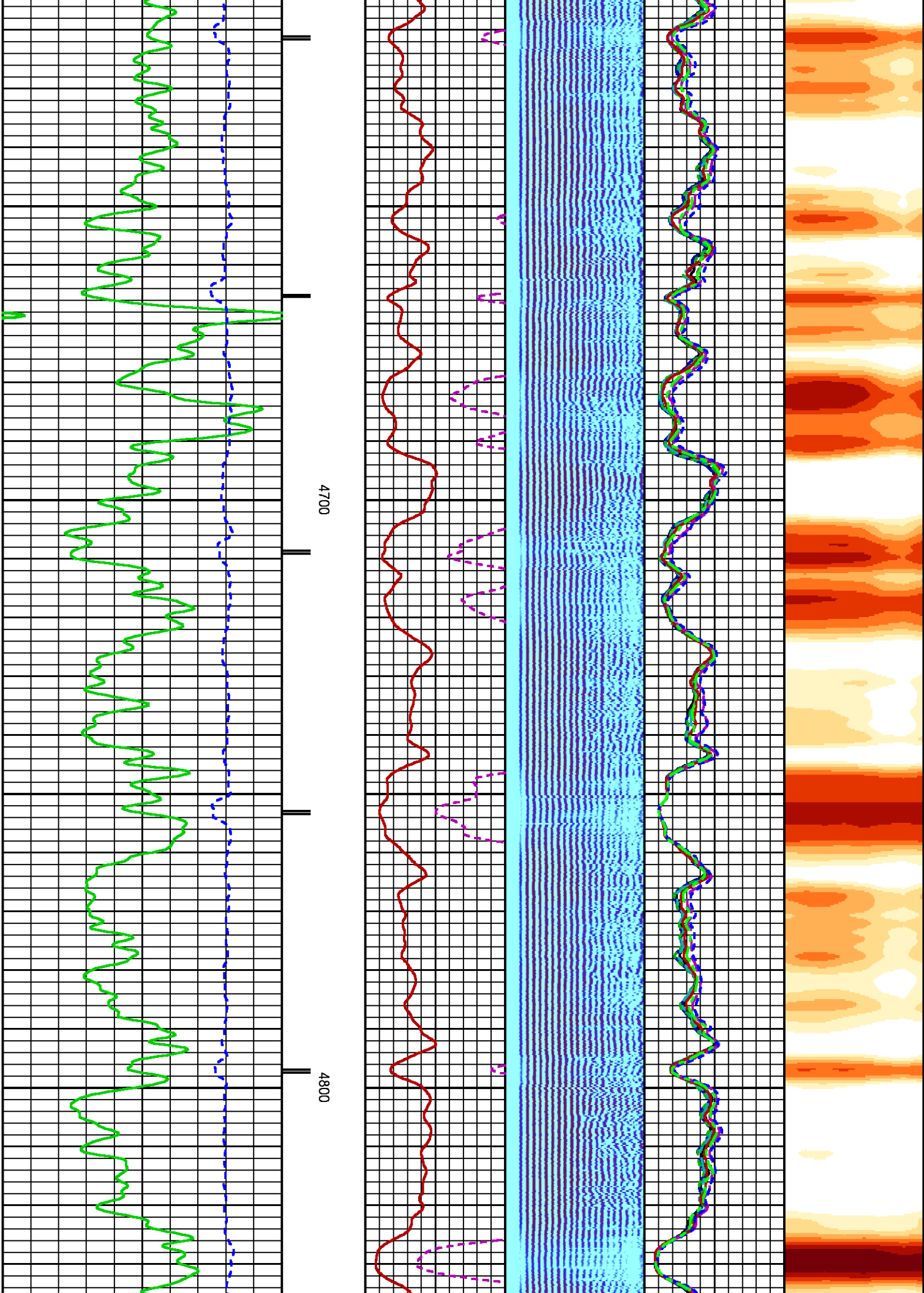


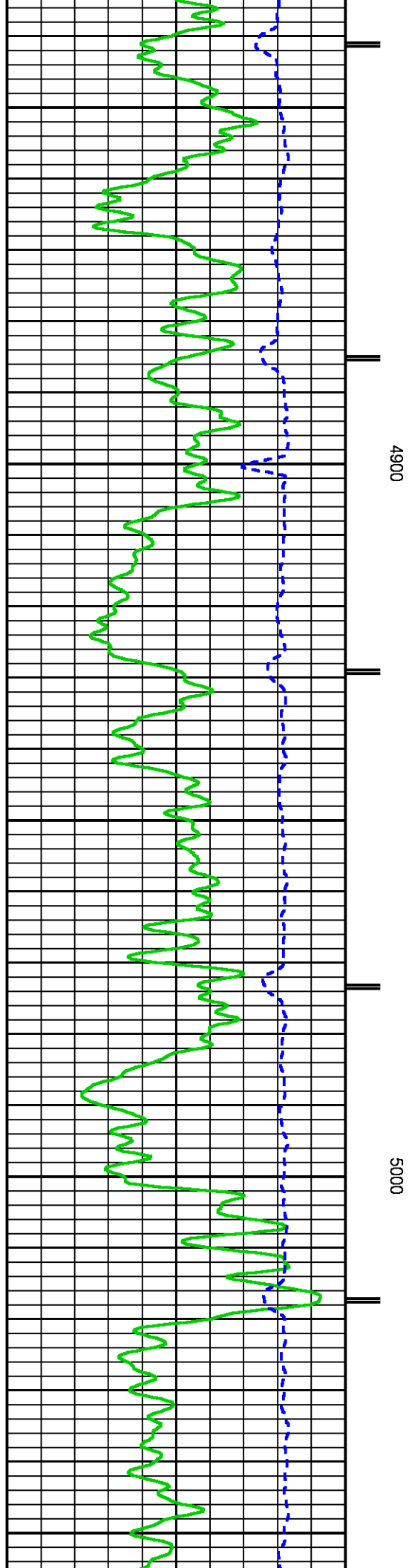
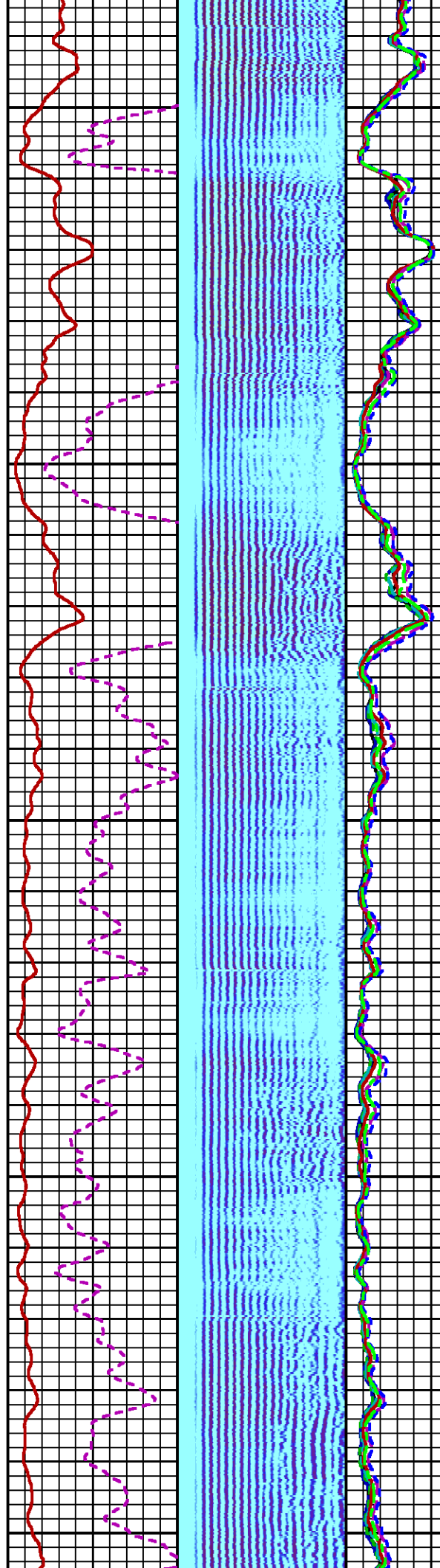
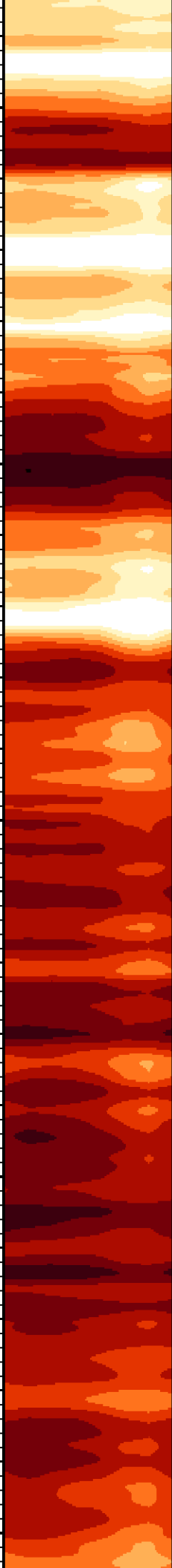


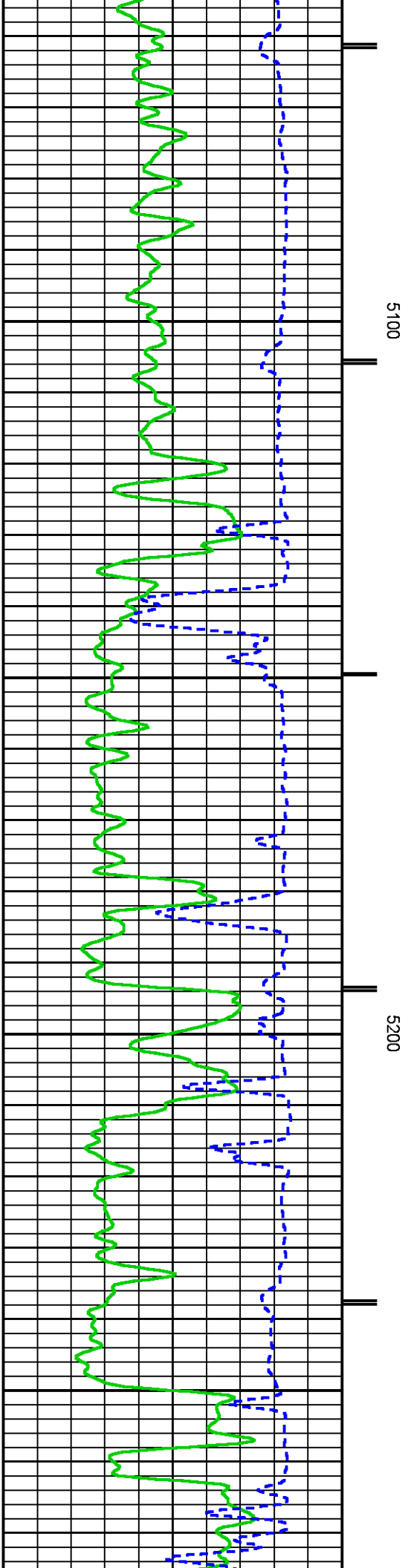
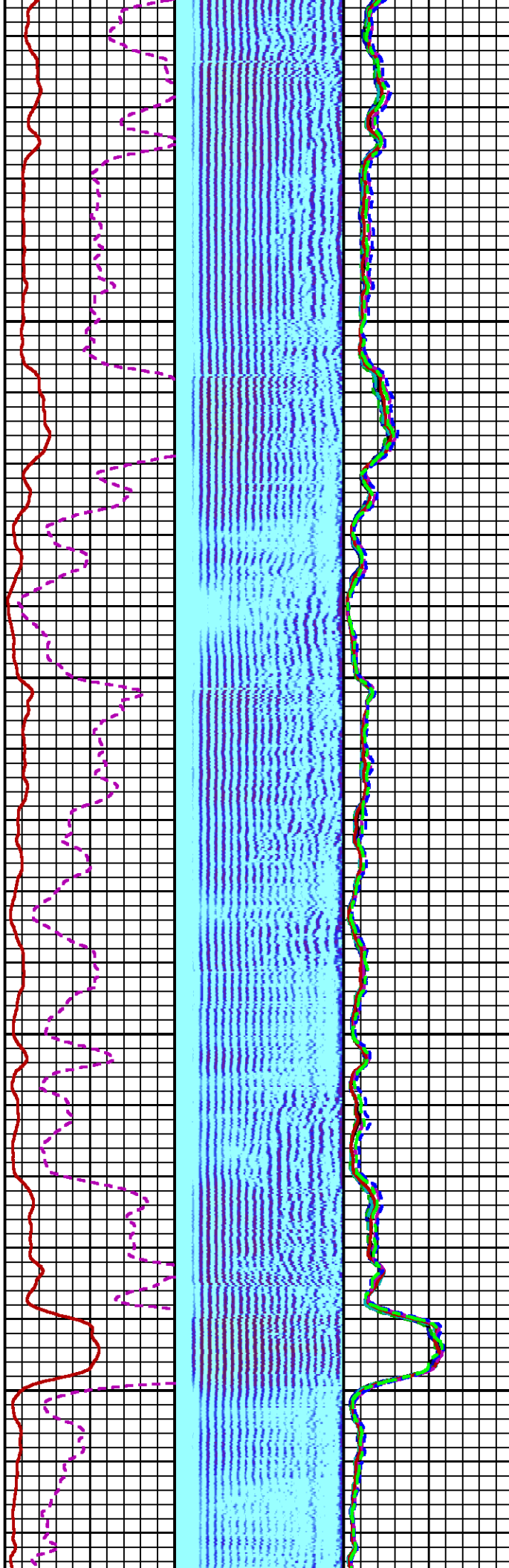
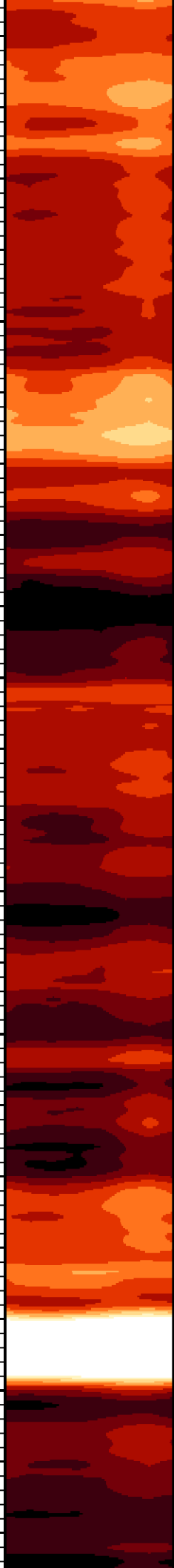


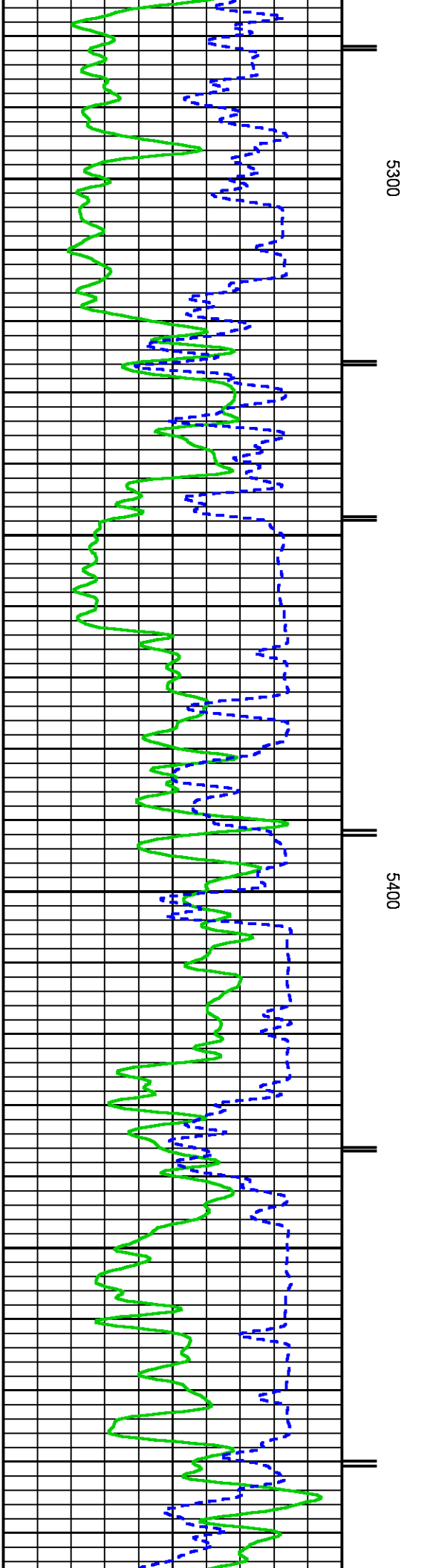
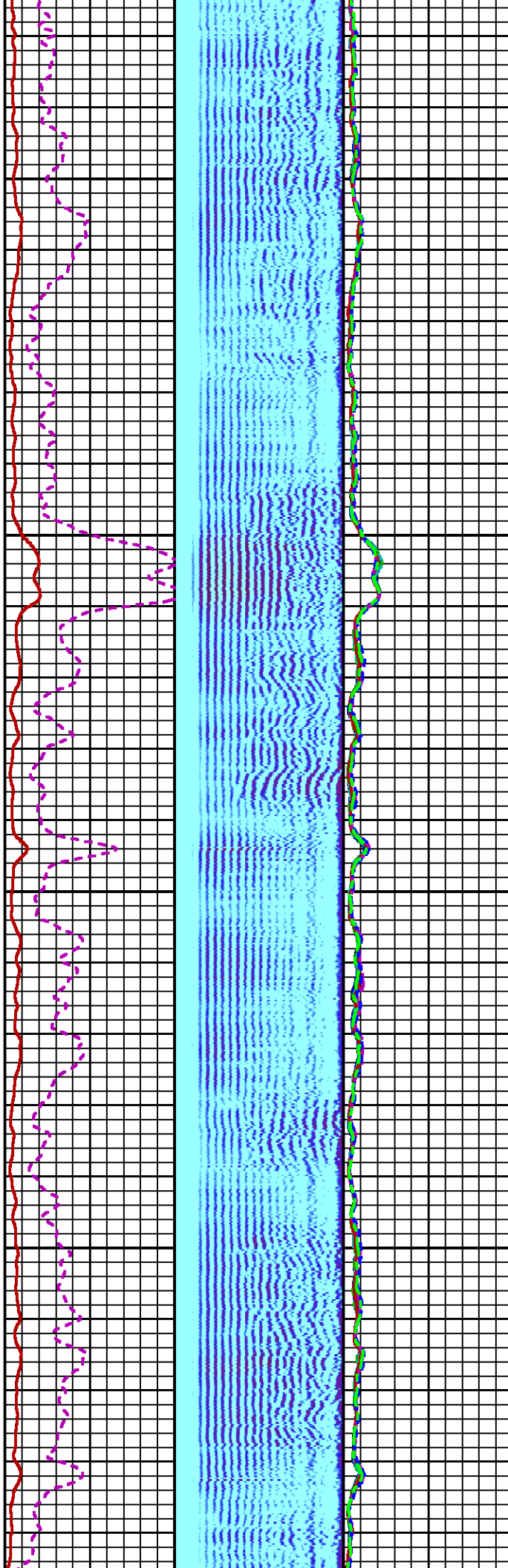
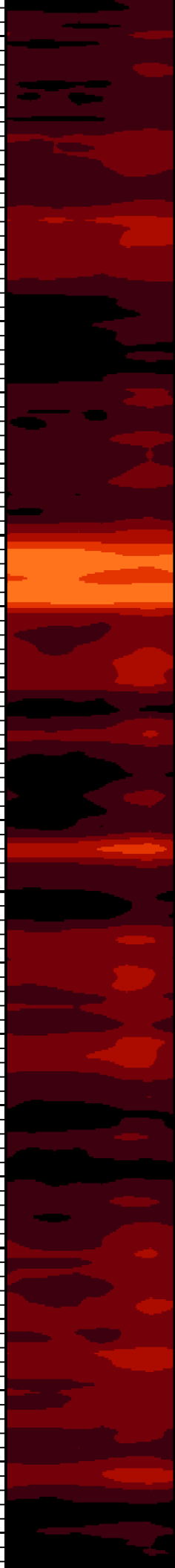




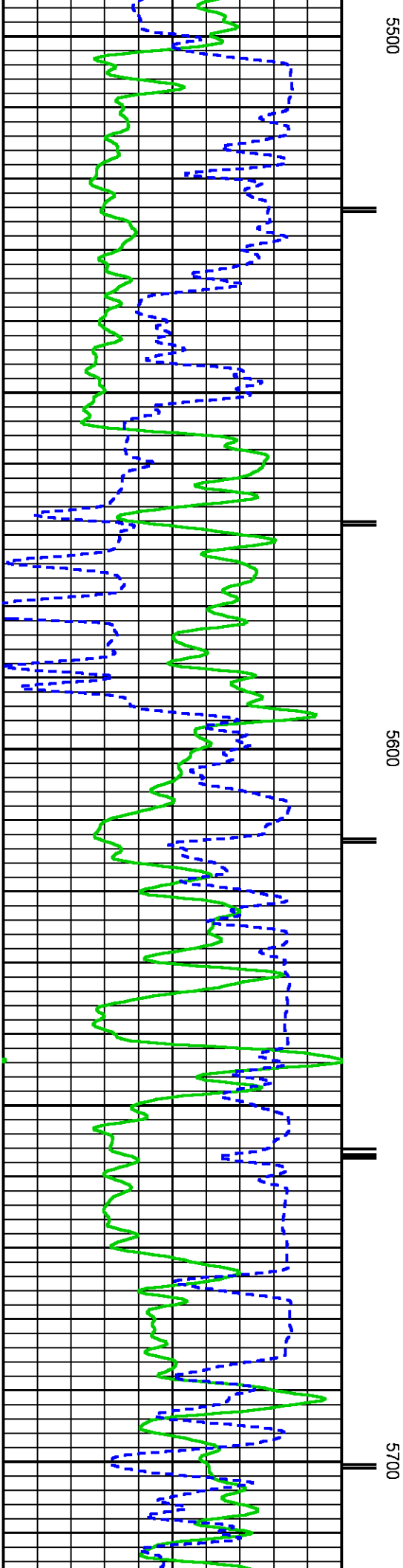
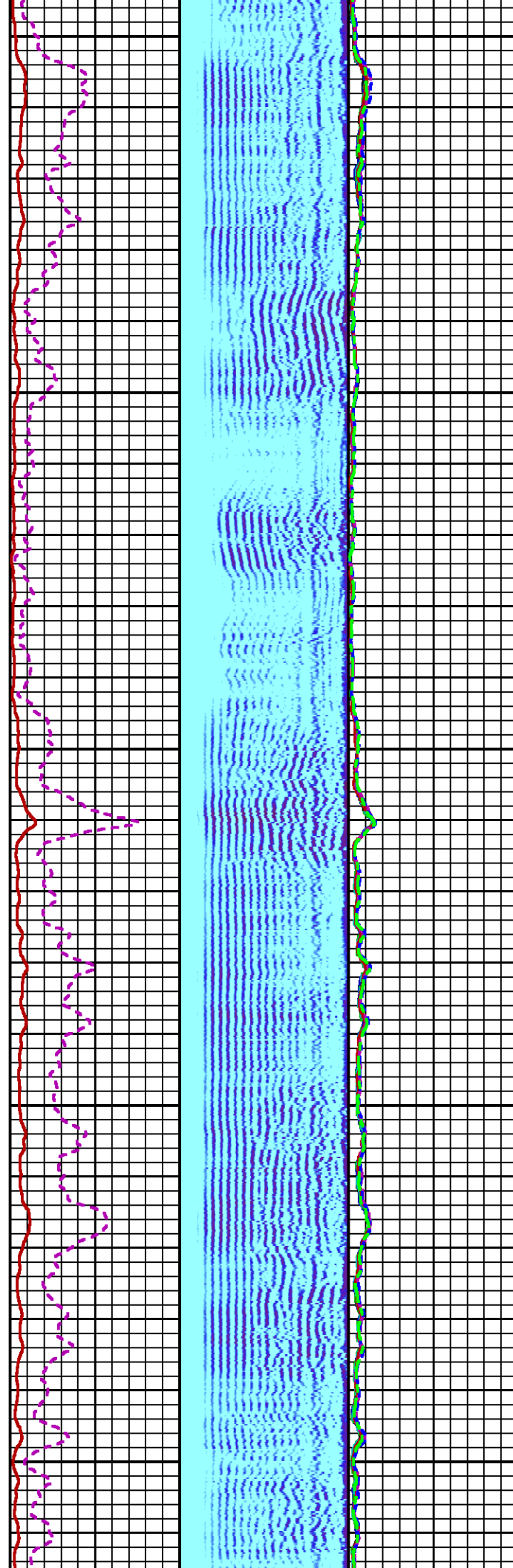
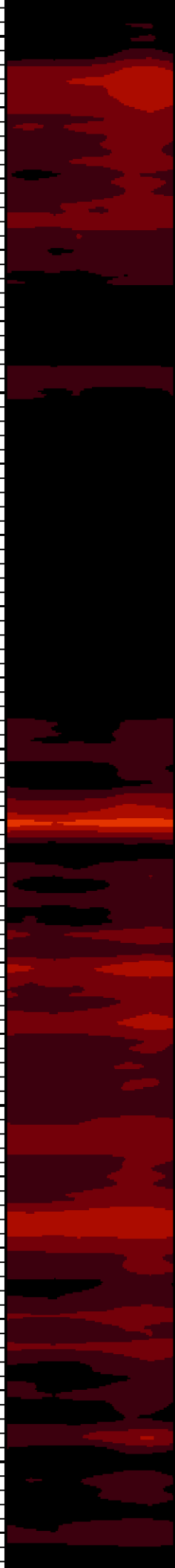


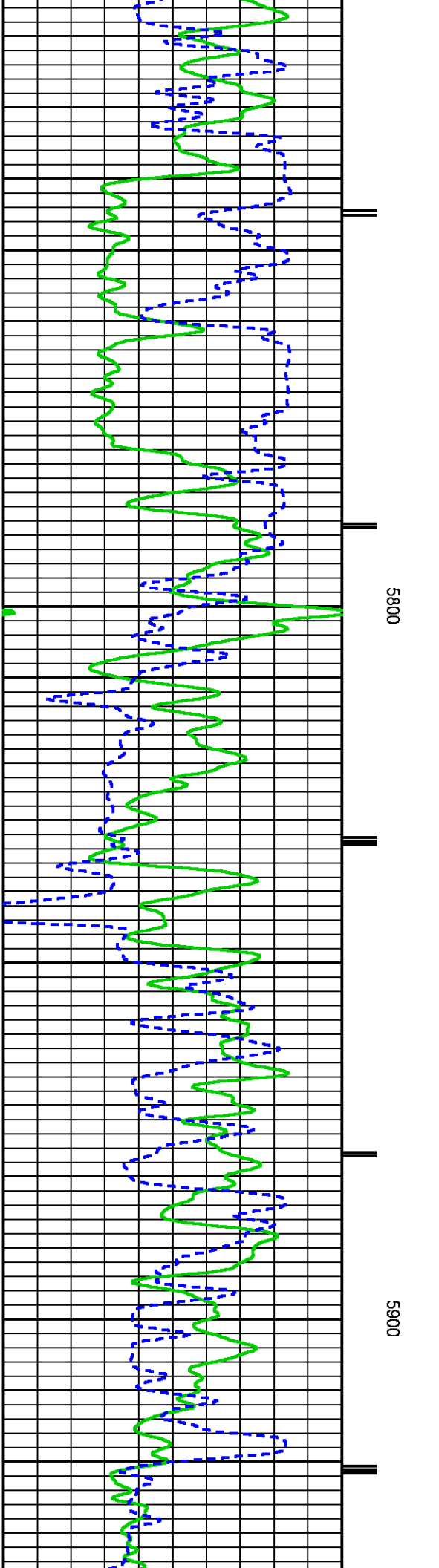
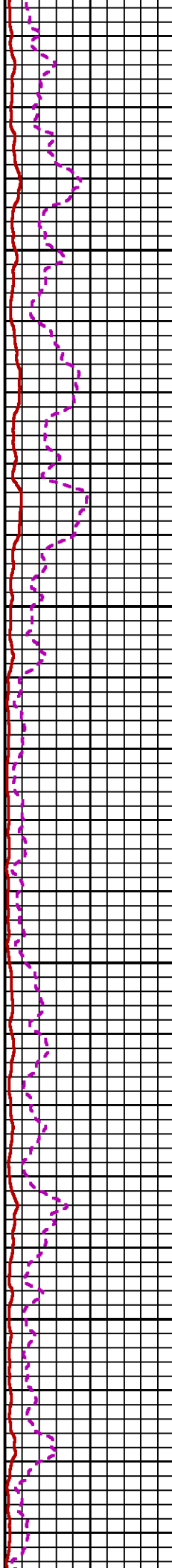
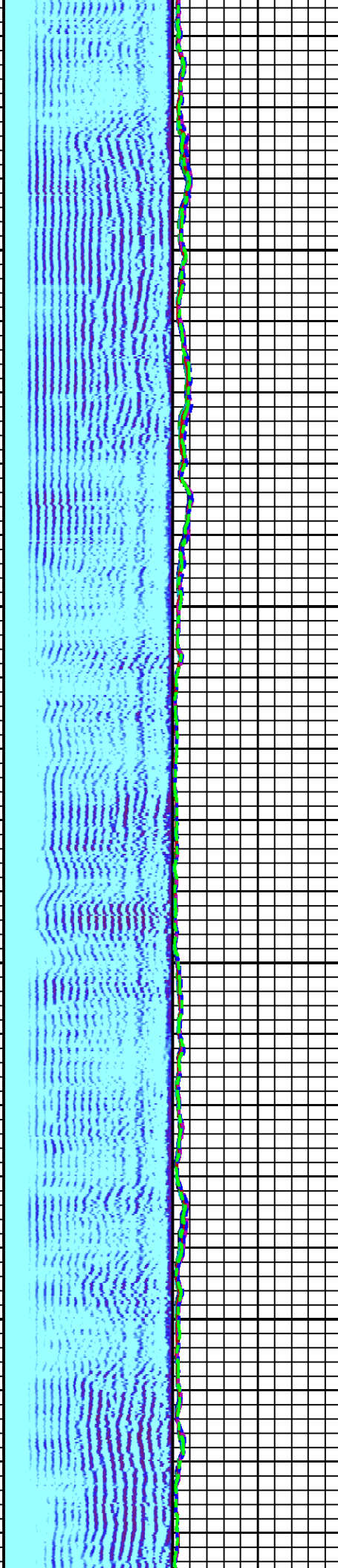


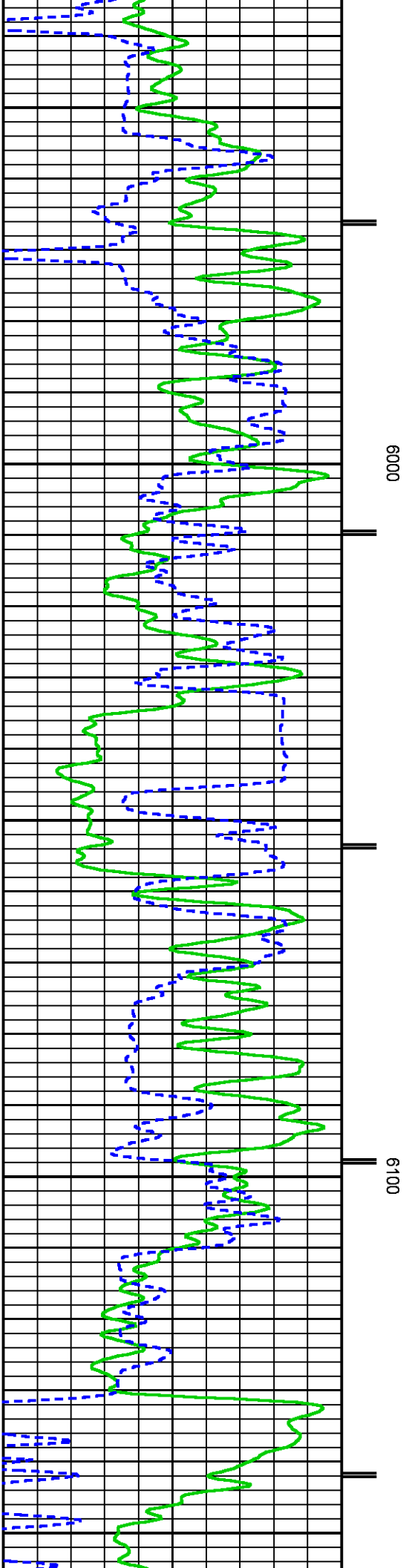
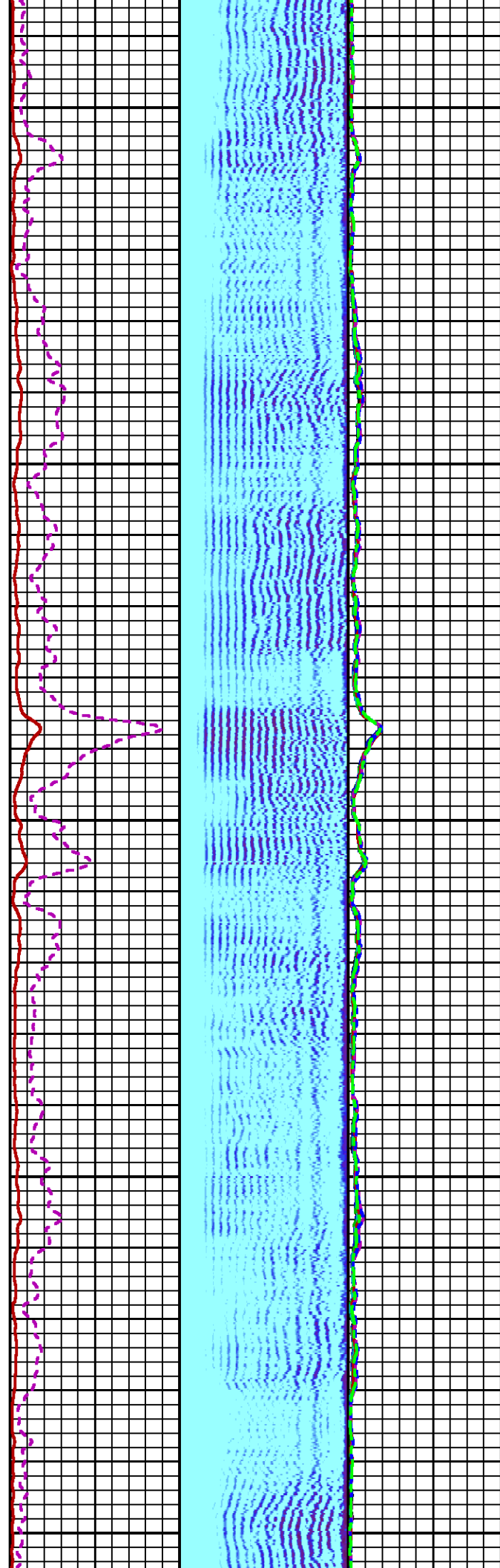
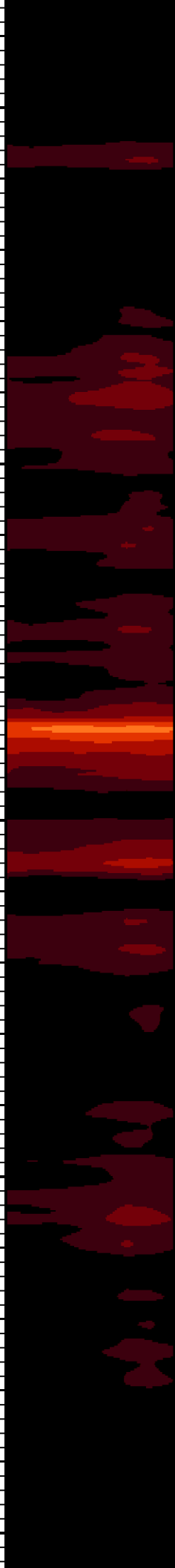


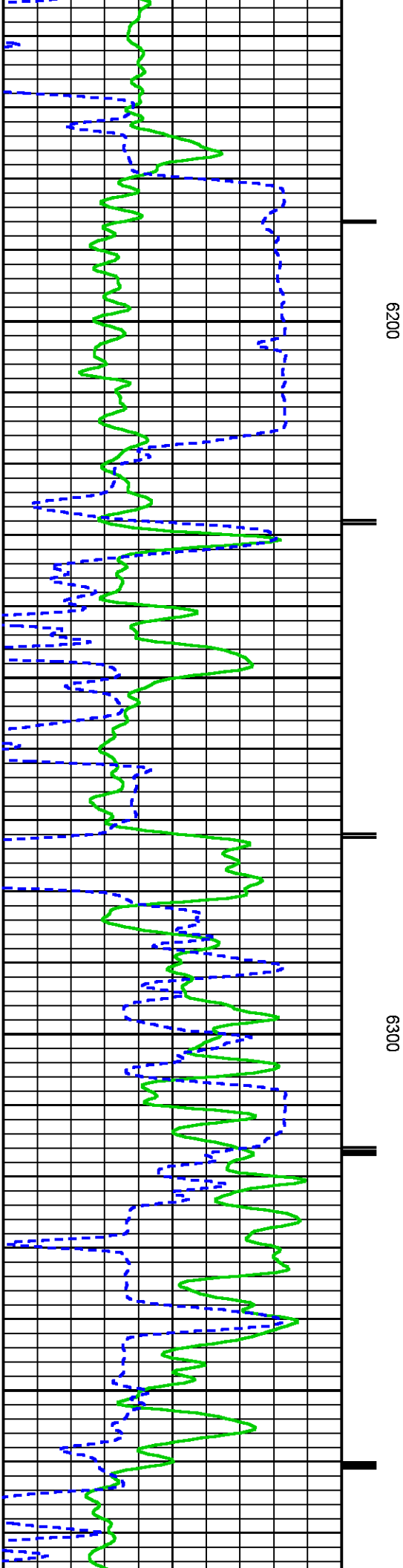
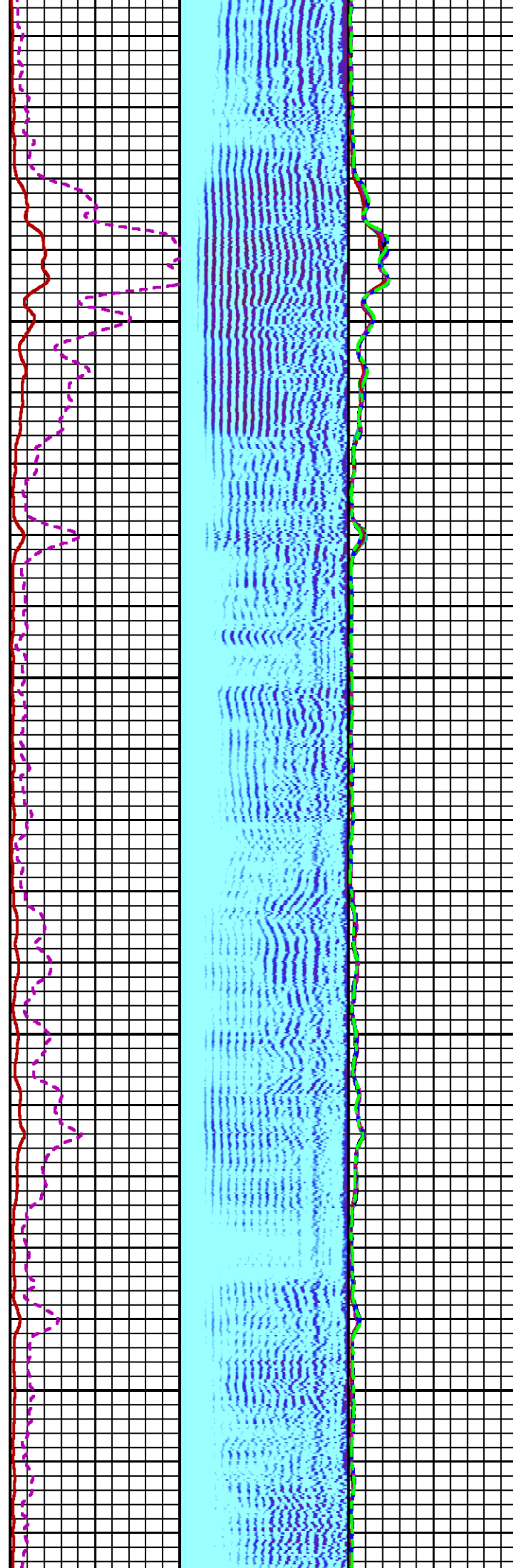




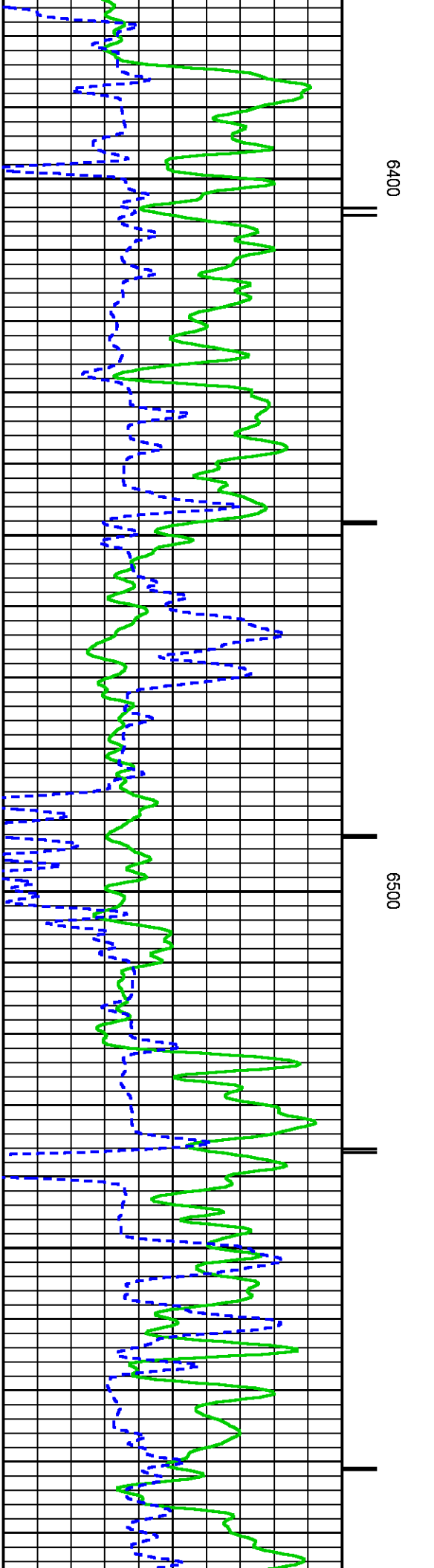
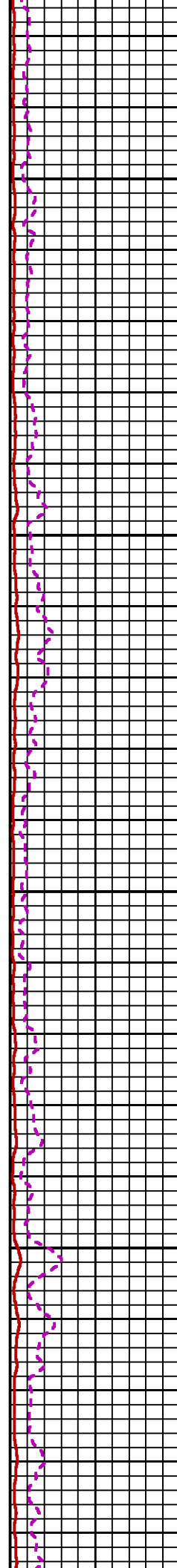
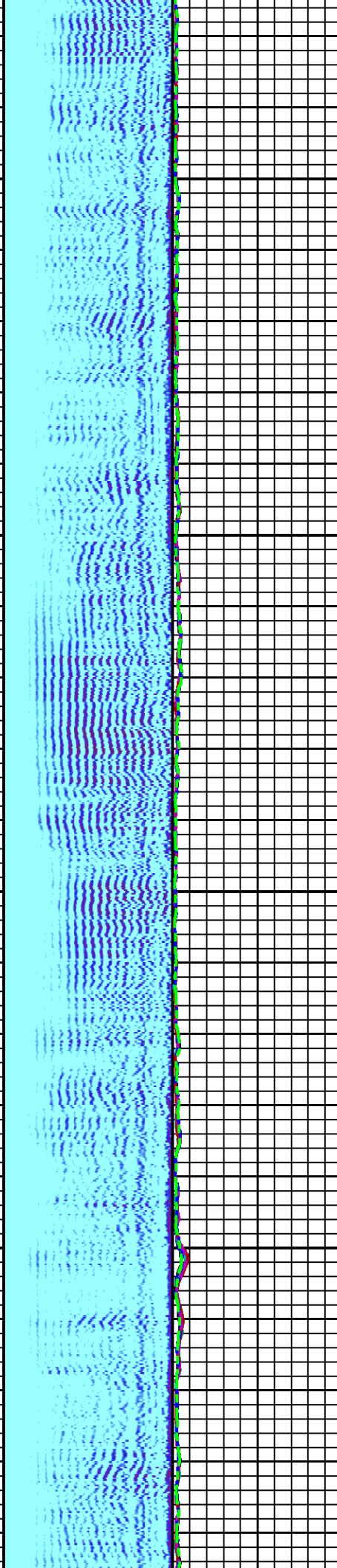


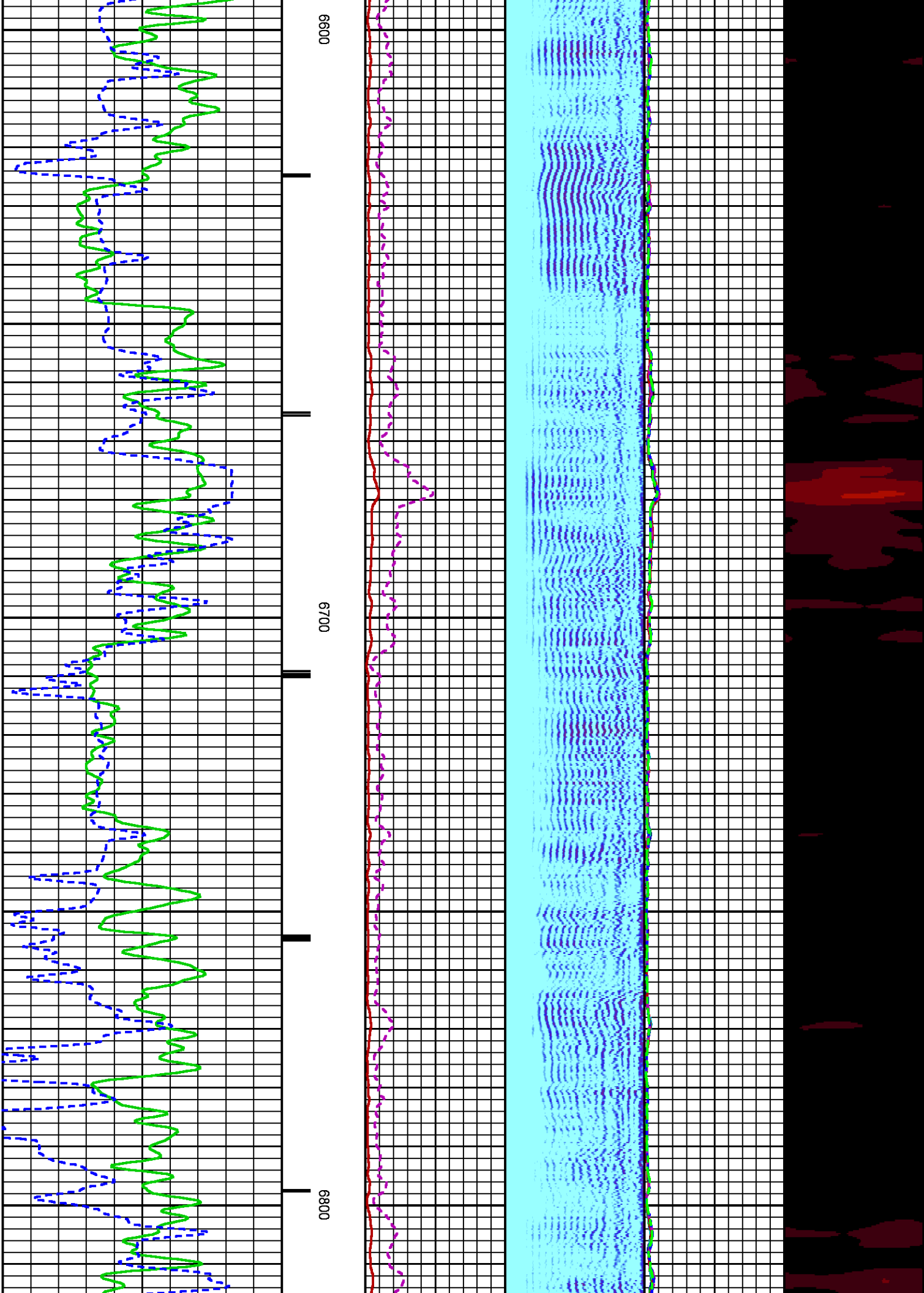


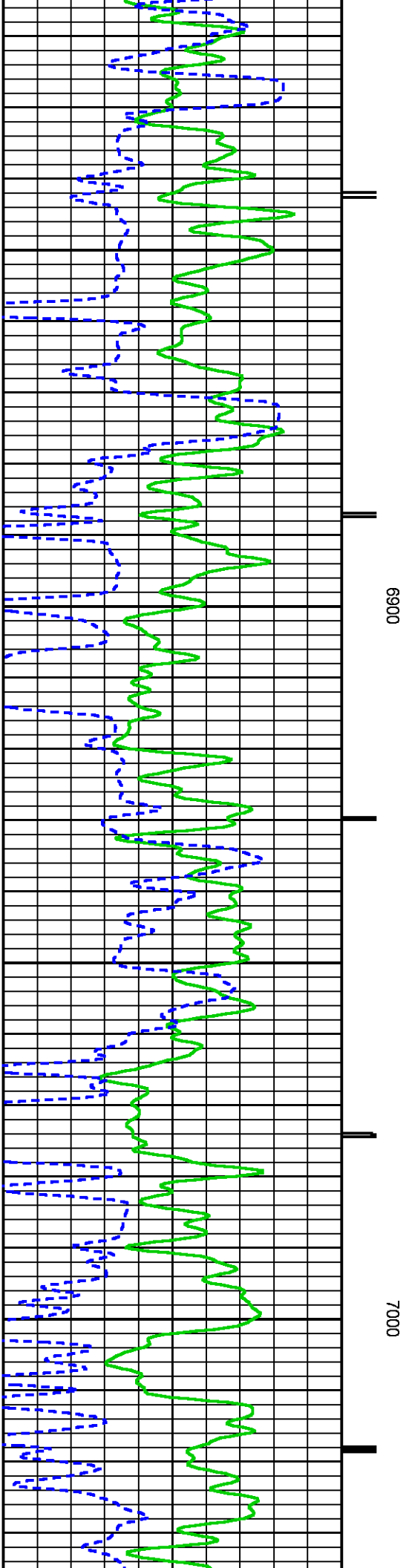
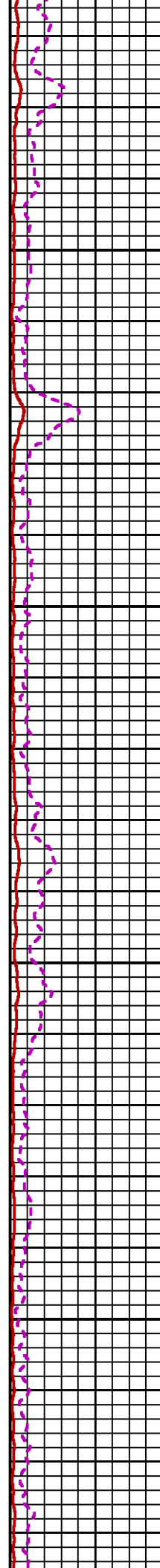
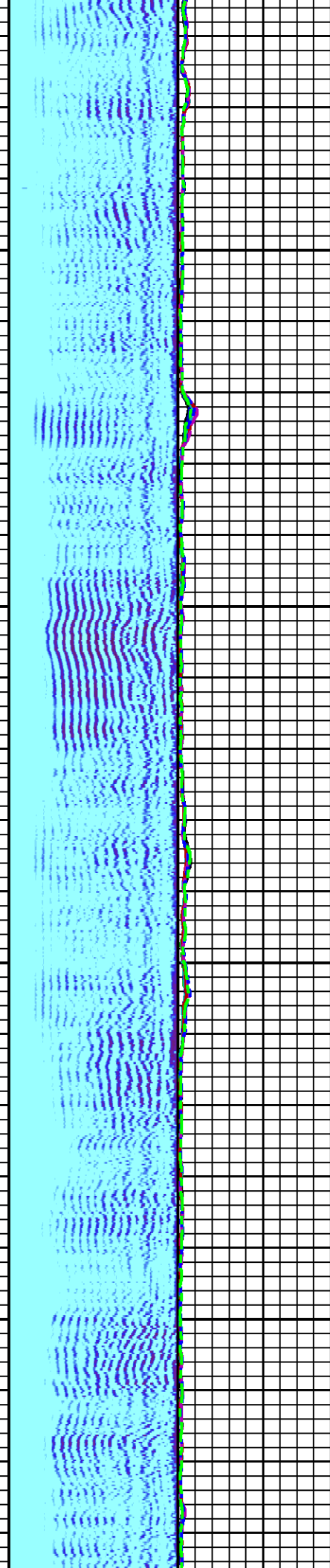
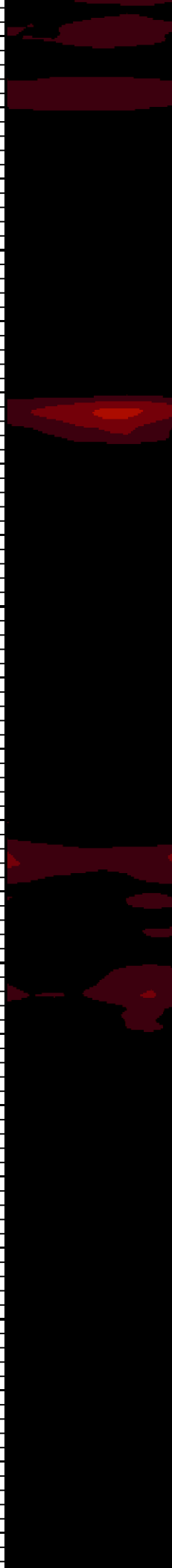


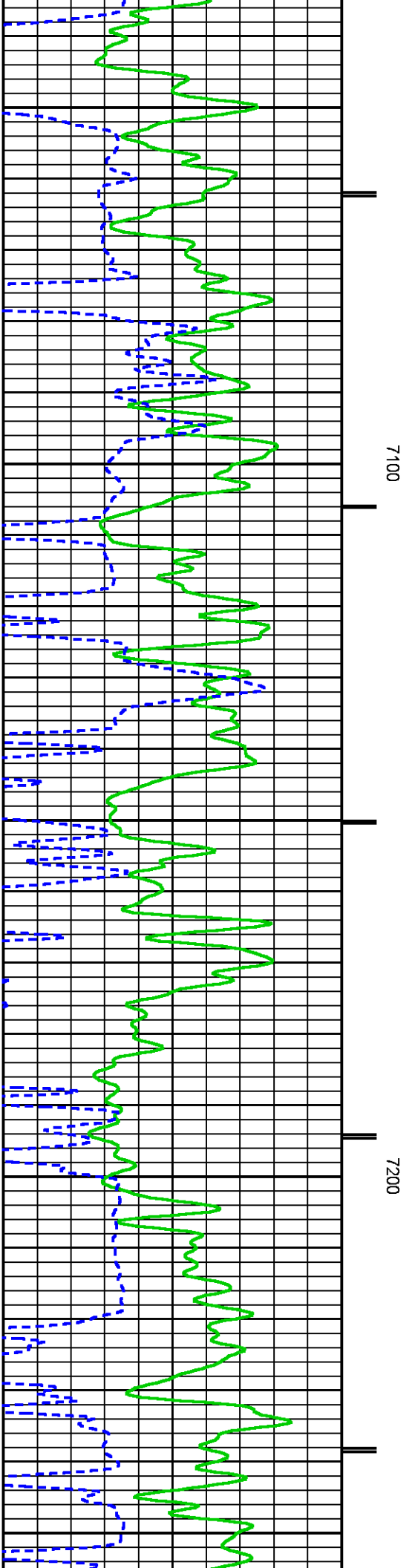
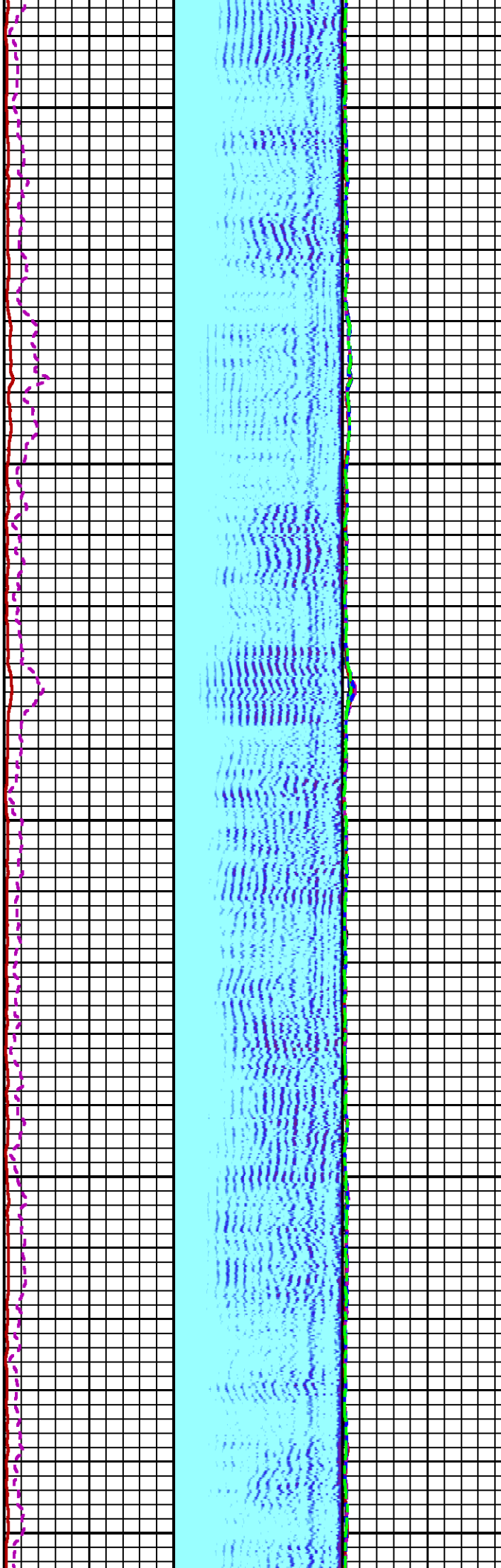




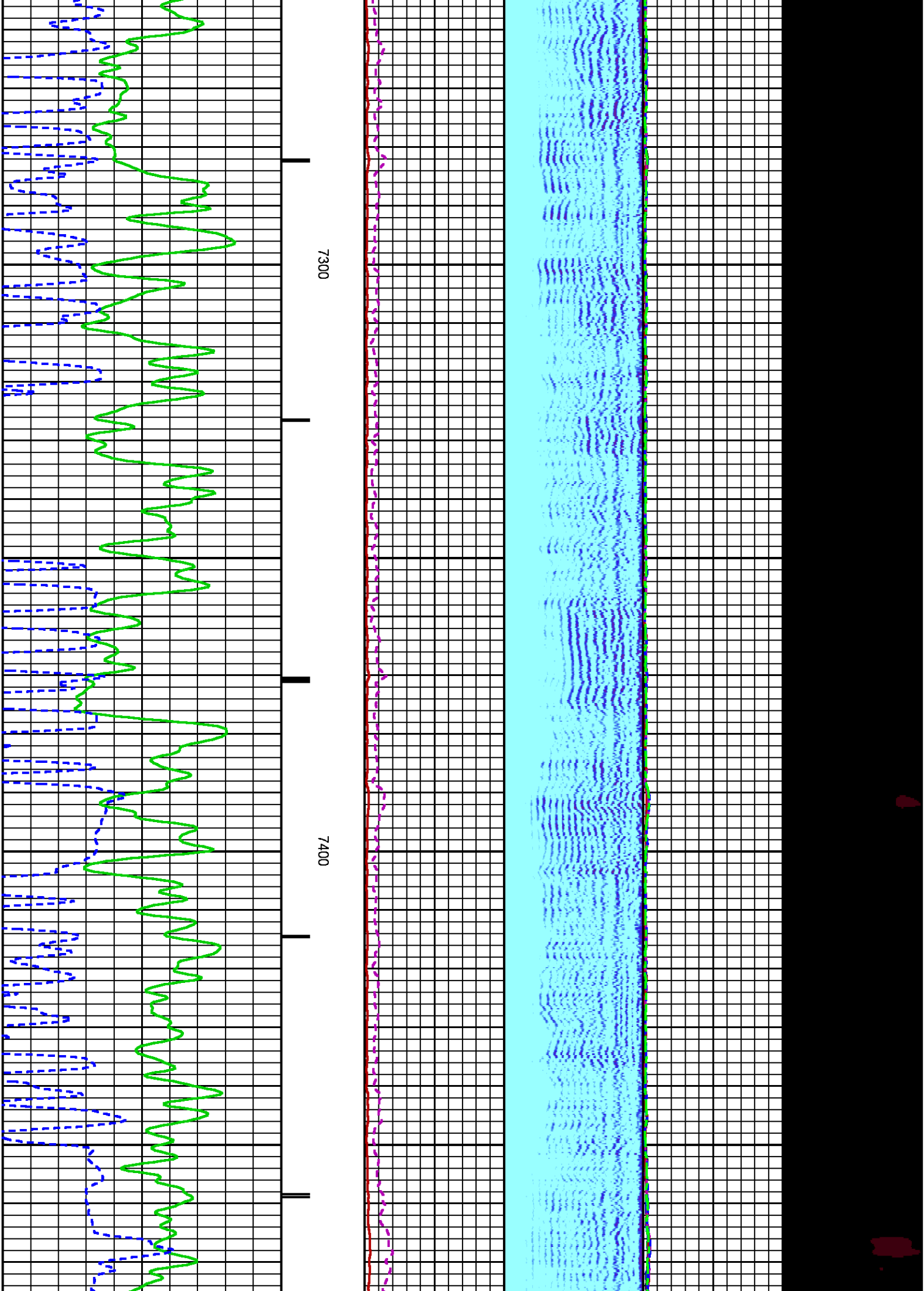


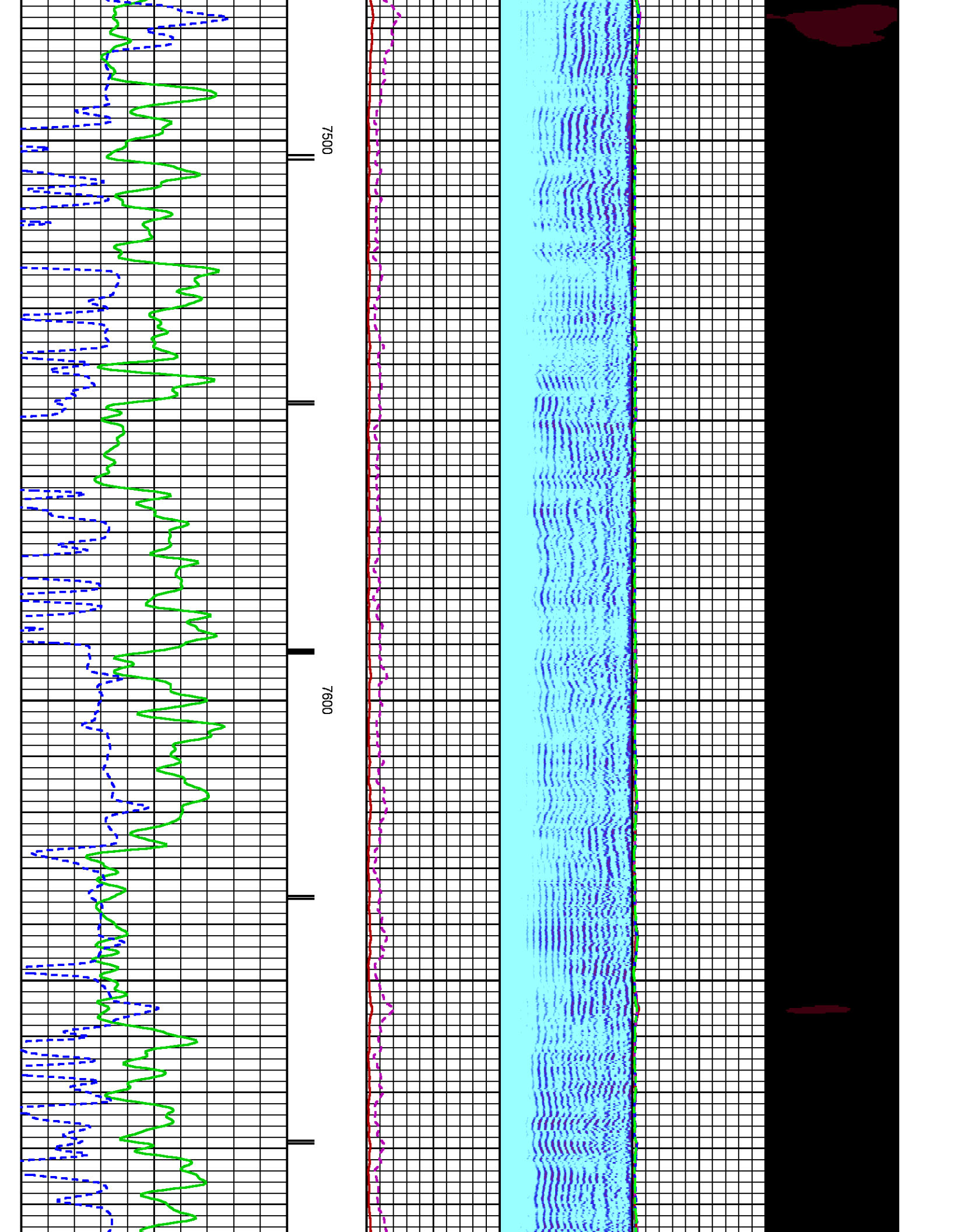


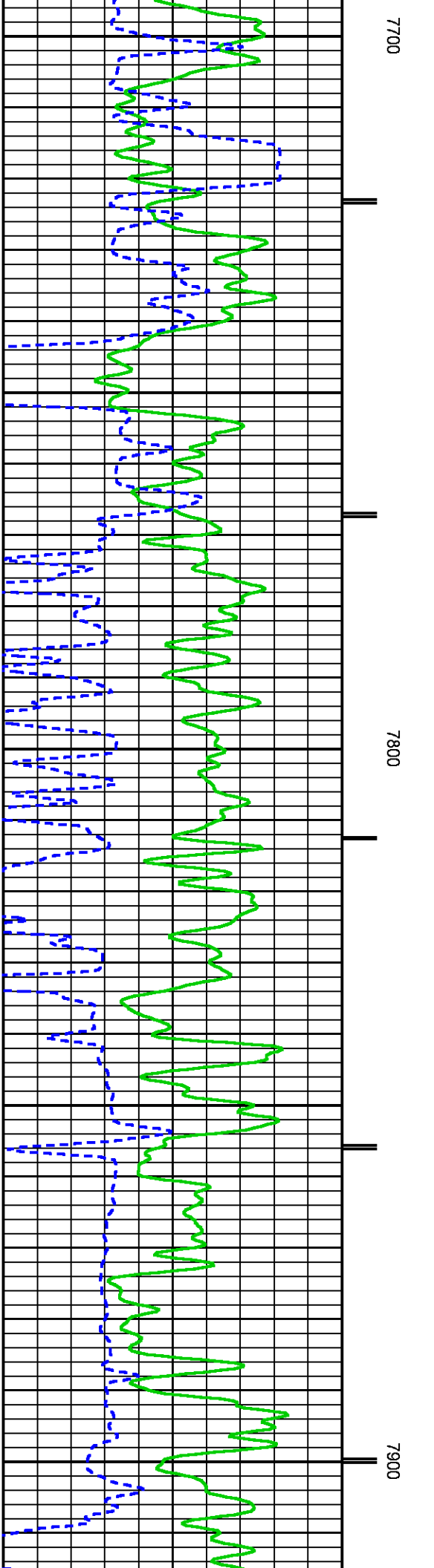
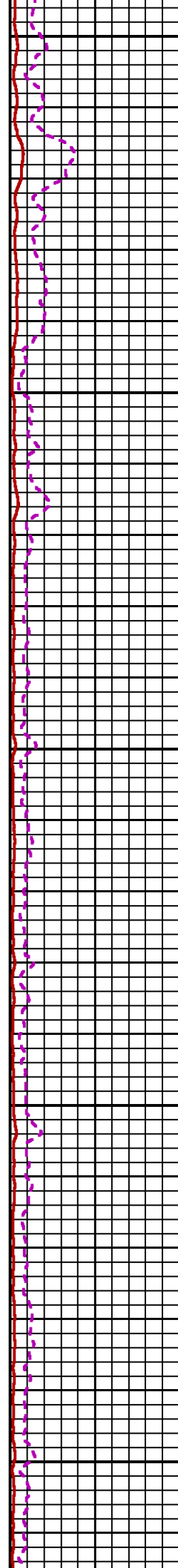
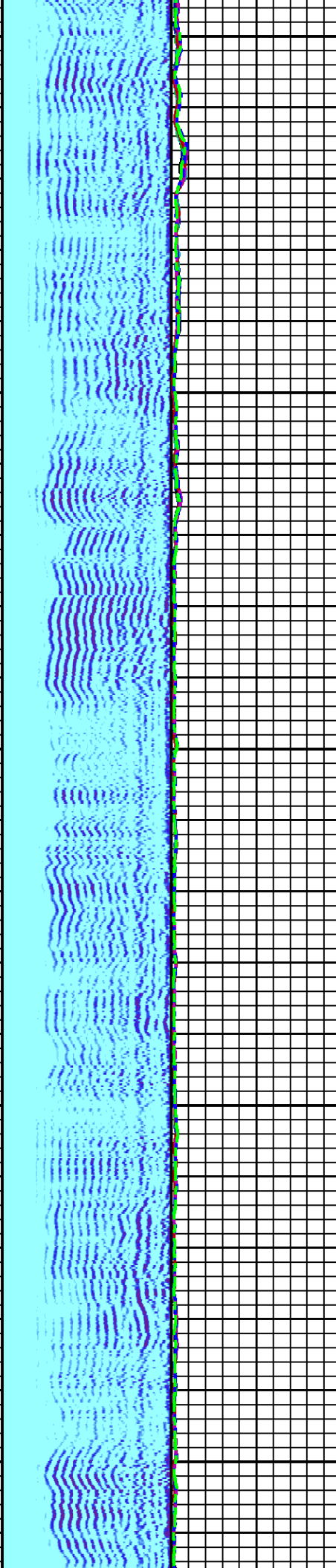


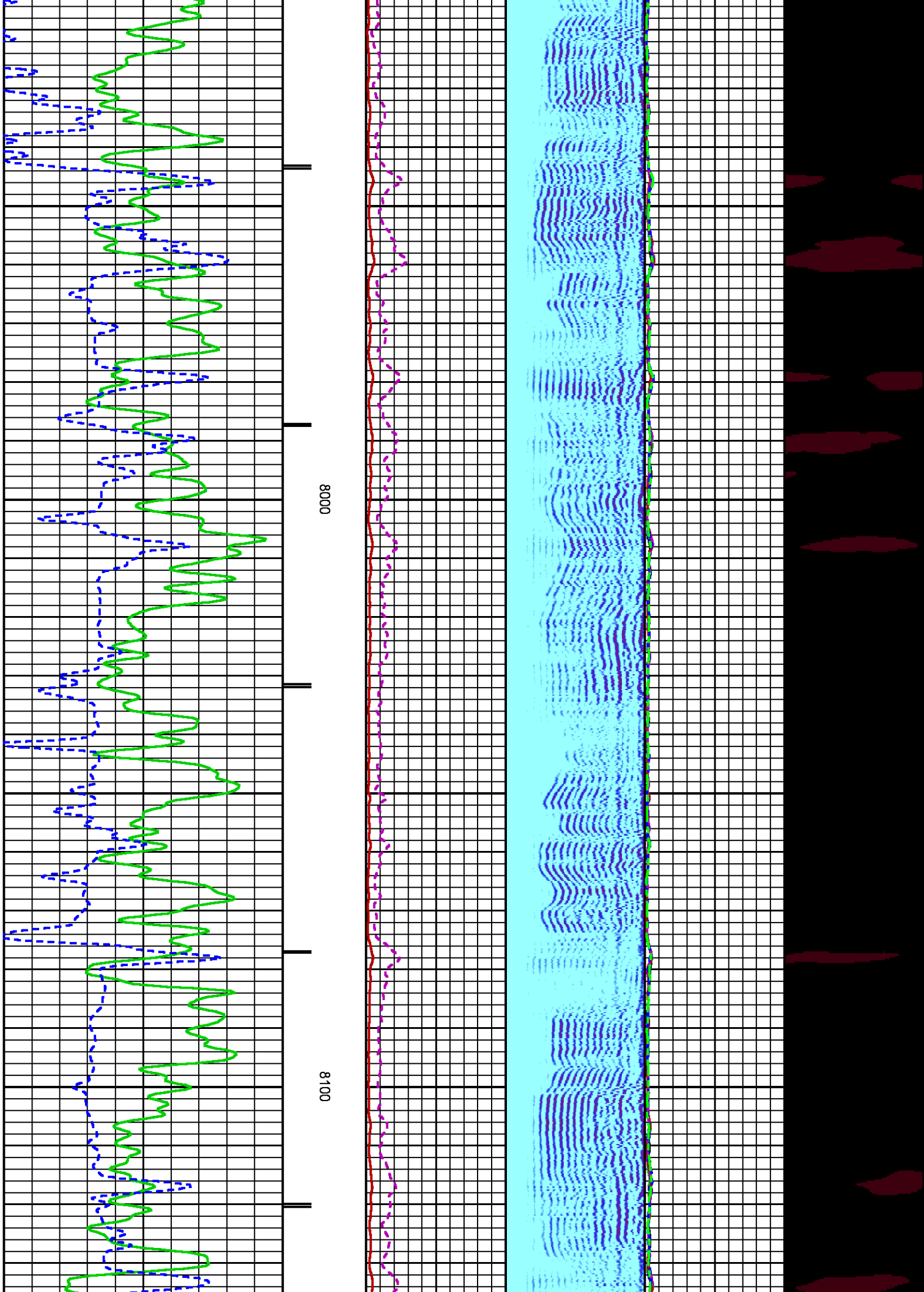




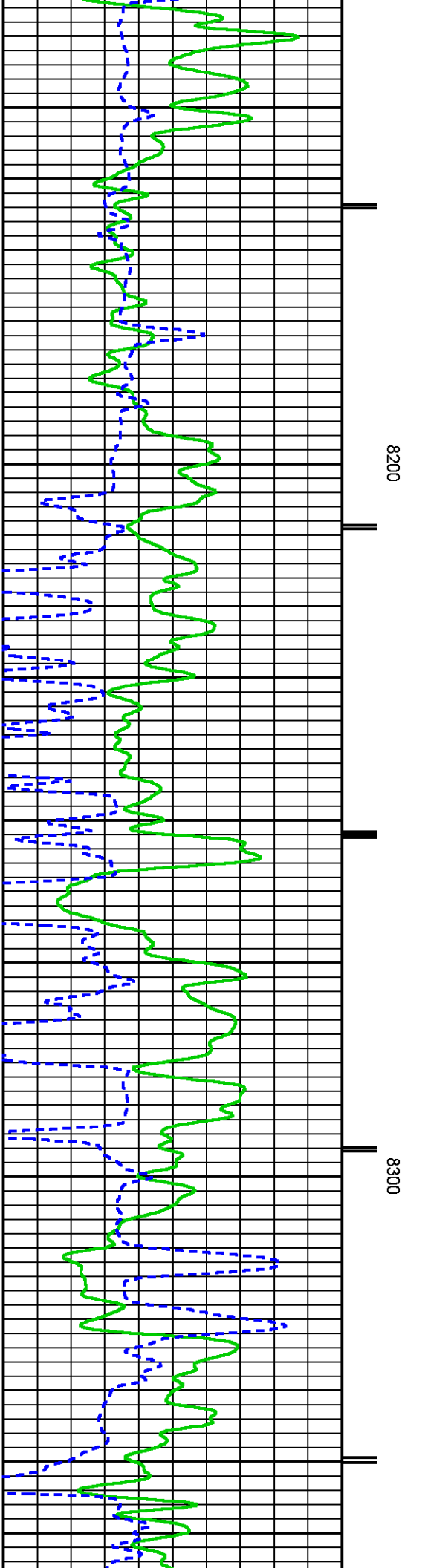
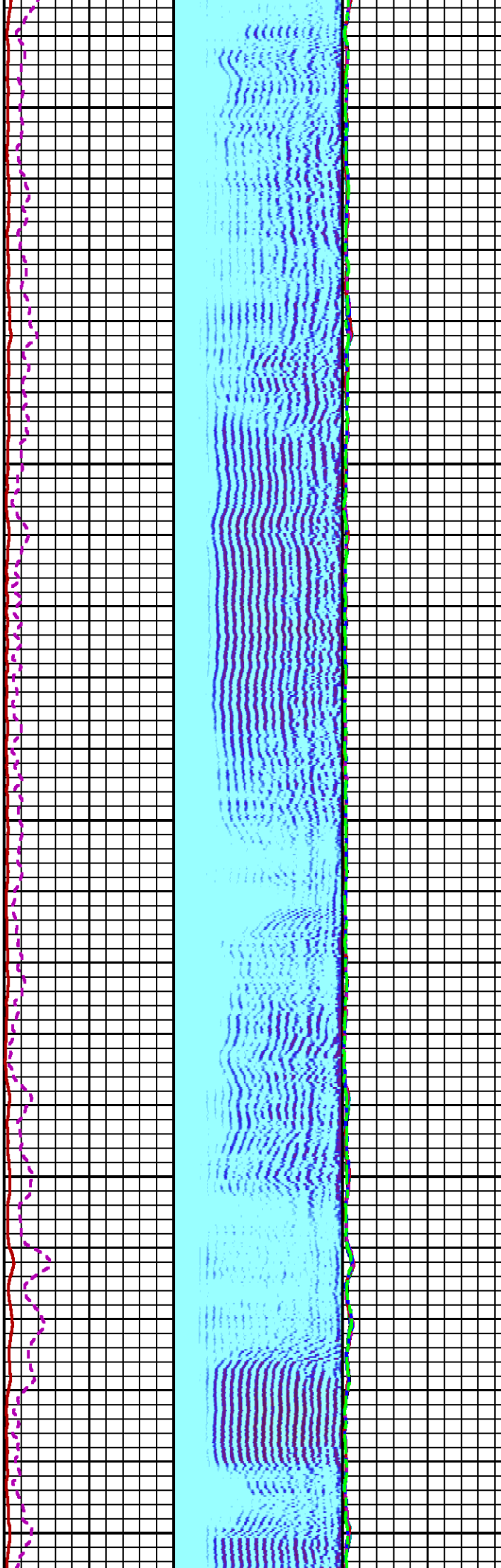
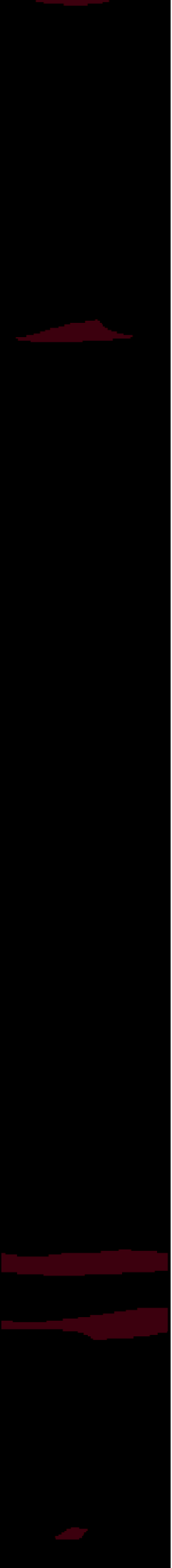


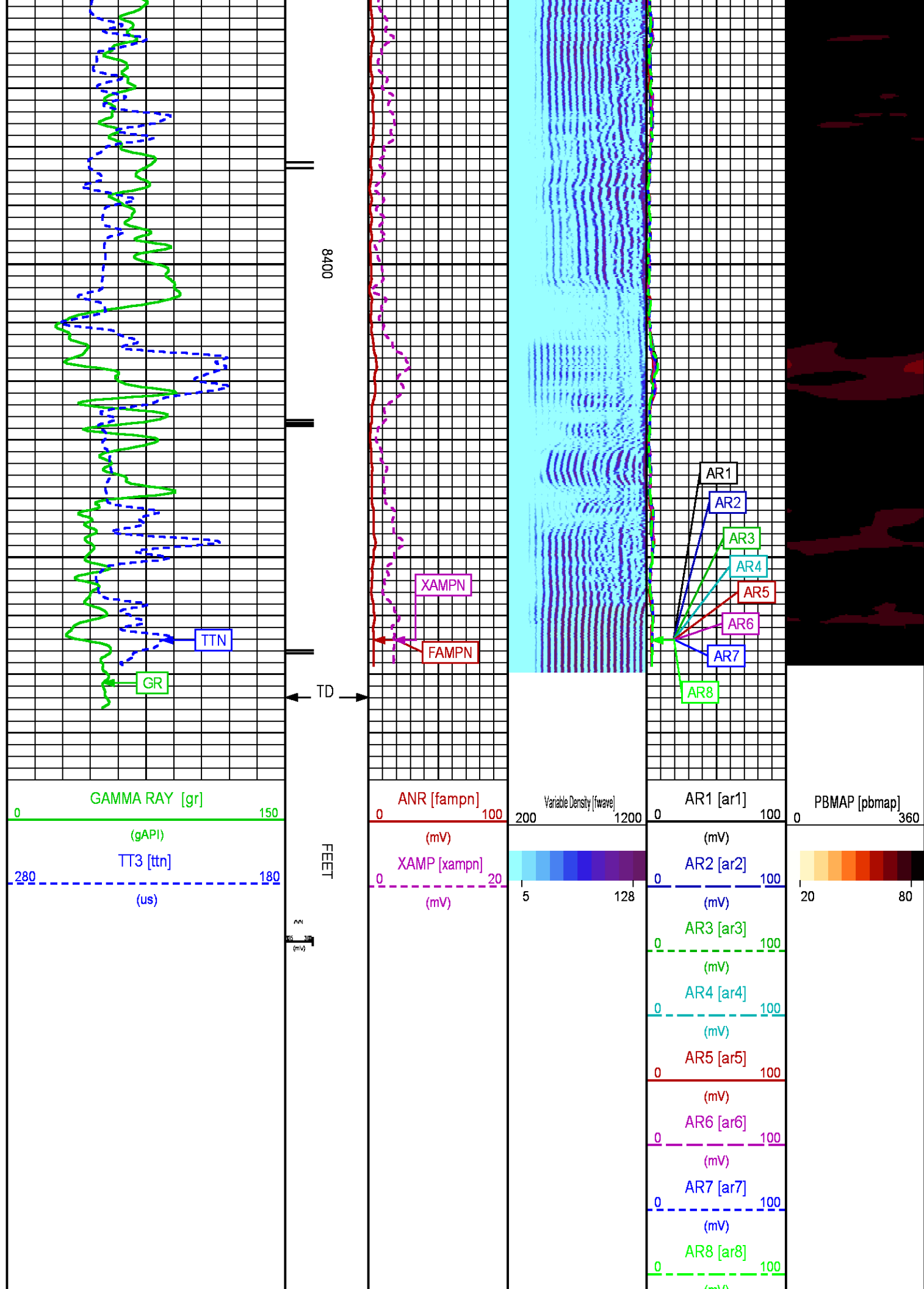












## REPEAT LOG

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

Updates: 1 Patches: 4

Plotted: Fri Jan 9 09:40:28 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH091647/n012e01.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 8093.500 ft BOTTOM DEPTH: 8491.114 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*)	140	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	126	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

### CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jan 7 08:53:52 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jan 7 08:53:52 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jan 7 08:53:52 2015	FAR WAVE FORM
F1:GR	Jan 7 08:53:52 2015	GAMMA RAY
F1:TTN	Jan 7 08:53:52 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jan 7 08:53:52 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

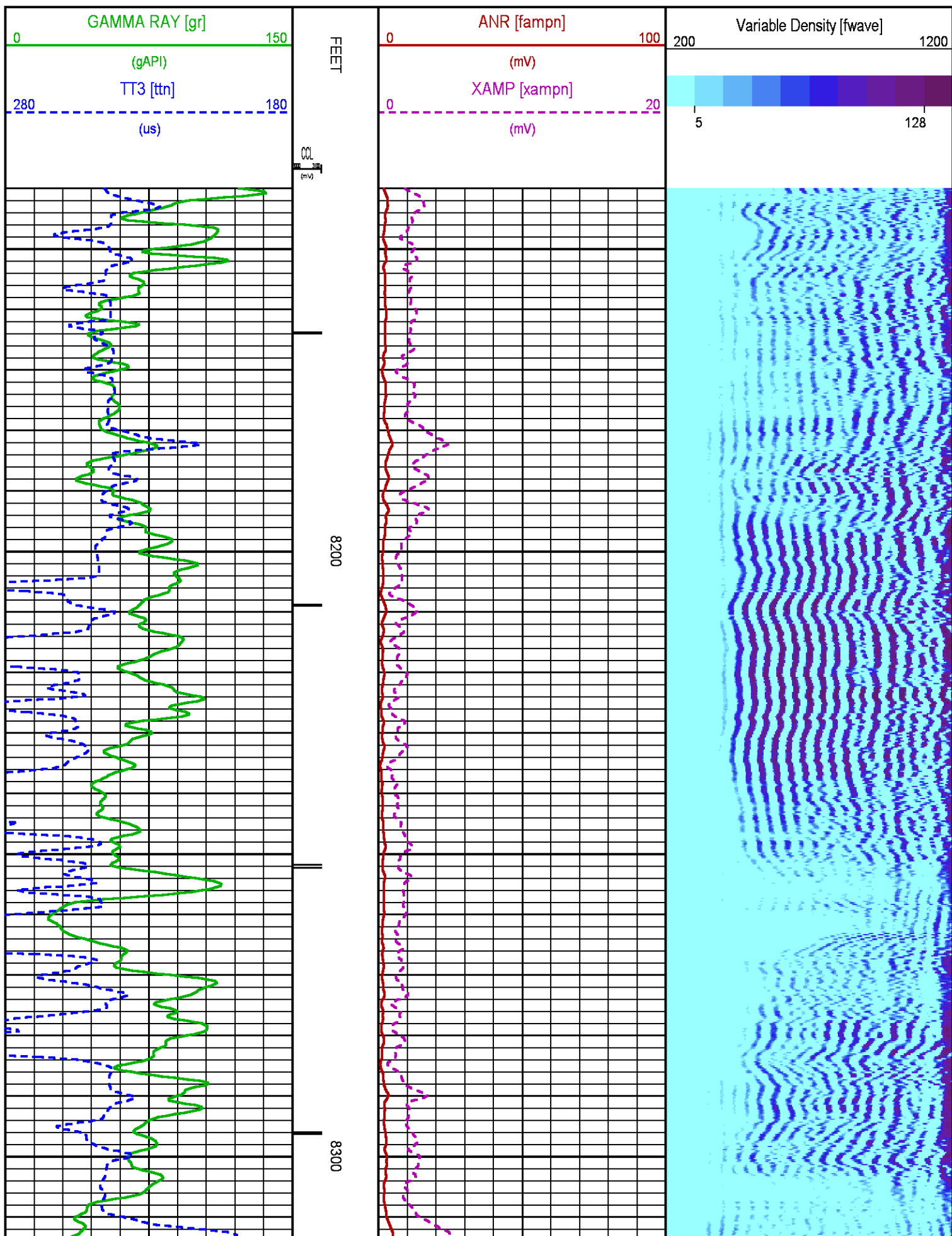
### CURVE MEASURE POINT OFFSET

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				

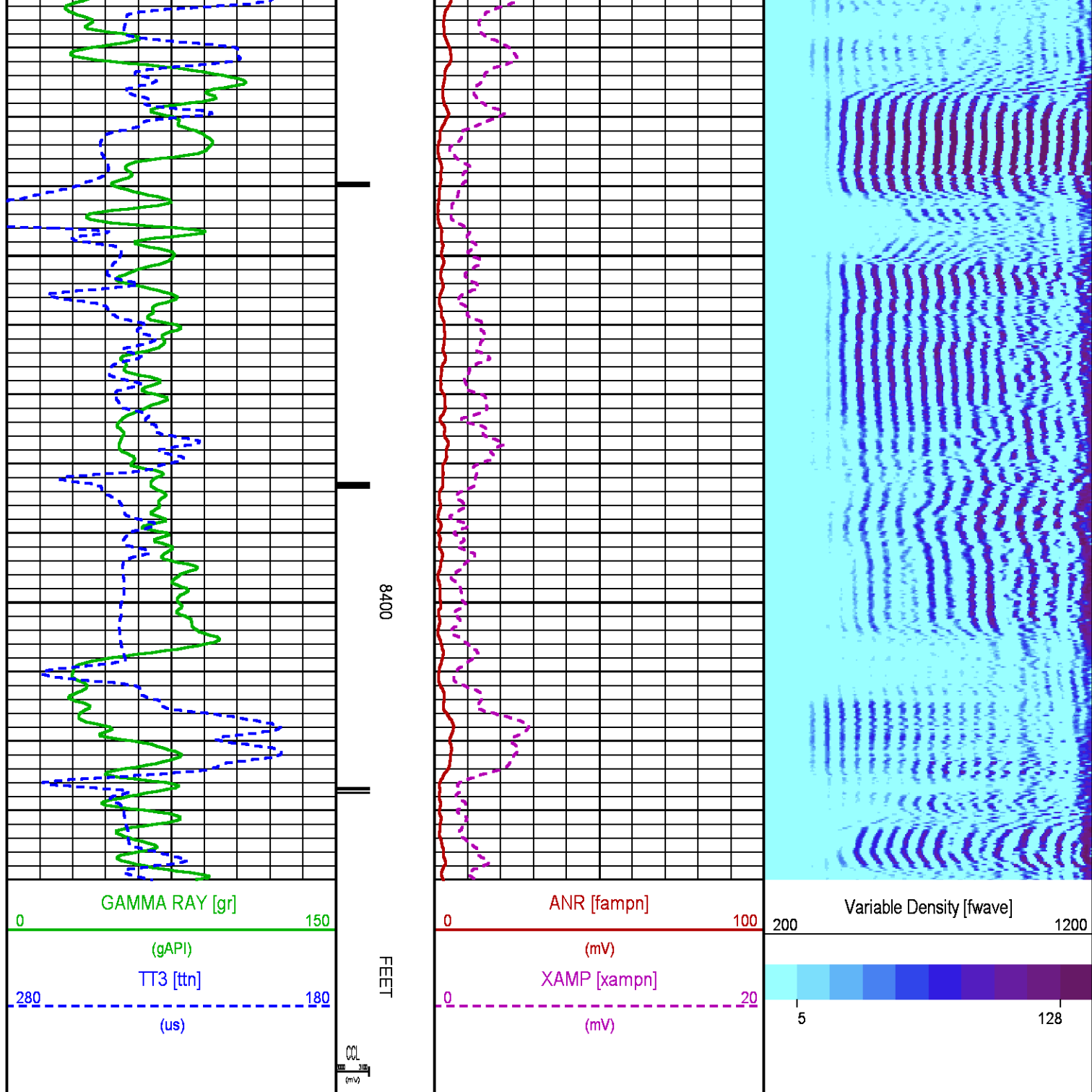
Presentation : HL6670:WPX\_CBL\_PRIMARY\_REPEAT\_PRESENTATION.fvpdf [5"/100' Scale]  
 Plot Interval : 8140 - 8440 Feet

Data File 1 : F1 : HL6670:/dat1a/CH091647/repeat\_final.xtf  
 Created On : Jan 7 08:53:52 2015

Company : WPX ENERGY ROCKY MOUNTAIN LLC  
Well : FEDERAL PA 444-27  
Field : PARACHUTE  
File Interval : 17.5 - 8487.5 Feet  
OCT : n012e







## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH091647/CBL.tp1

## RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Tue Jan 6 08:29:49 2015

UNIT #: 3880TA HL6670

	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)	0.07	-0.08	-0.22	-0.37	0.35	-0.21	-1.25	-0.54	0.29	5.49	-0.01
AMP FLUID (mV)	325	324	323	322	320	326	326	327	324	449	322
TT (us)	217	217	216	216	216	216	216	216	218	325	217
M FACTOR	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.34	0.31

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1426XA 10154957	DATE/TIME PERFORMED:	Wed Jan 7 08:10:11 2015	DAYS SINCE CAL:	0
UNIT #:	3880TA HL6670	CABLE #:	Z06670 SMALLCBL		

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.44	0.18	0.17	0.20	0.09	0.10	0.04	0.09	0.16	0.77	0.08
AMP AIR	-0.13	0.31	0.11	0.07	0.36	0.33	0.37	0.26	0.20	-0.11	101.05

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.31	0.00	0.99

### GR PRIMARY CALIBRATION SUMMARY

TOOL #:	2459XA 10124121	DATE/TIME PERFORMED:	Tue Jan 6 08:43:58 2015
UNIT #:	3880TA HL6670	CALB JIG #:	4702NK DA-041

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	85.07	357.69	272.6	0.679	57.73	242.73	185

### GR PRIMARY VERIFICATION SUMMARY

TOOL #:	2459XA 10124121	DATE/TIME PERFORMED:	Tue Jan 6 08:49:28 2015
UNIT #:	3880TA HL6670	VERI JIG #:	4702NK DA-041

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	90.71	352.71	0.679	61.56	239.35	177.79
						175.00 195.00

## INSTRUMENT CONFIGURATION

Source File: /dat1a/CH091647/n012e~FINAL-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'

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

CCL — 8.65'


GR — 6.79'

NEU — 1.40'

BULL PLUG 2 3/4

0.00'

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

	COMPANY	WPX ENERGY ROCKY MTN LLC		FILE NO:	
	WELL	FEDERAL PA 444-27			US091647
	FIELD	PARACHUTE		API NO:	
	COUNTY	GARFIELD	STATE	CO	05045223390000
LOCATION:		ELEVATIONS:		S27 T6S R95W	
SHL: 2405' FNL; 649' FEL		KB 5882 FT		PAD: DOE 2-W-27	
BHL: 1128' FSL; 1168' FEL		DF		NABORS 576	
SEC 27 TWP 6S RGE 95W		GL 5856 FT			
		DATE		07-Jan-2015	