



FILE NO: CH089276	COMPANY WPX ENERGY
API NO: 05045217840000	WELL FEDERAL NER 34-32
	FIELD RULISON
	COUNTY GARFIELD
	STATE CO
Ver. 3.87 32 6S 93W RU 23-5 PAD NABORS 576	LOCATION: SHL: 132' FNL & 2587' FWL(5 7S 93W) BHL: 1116' FSL & 1971' FEL(32 6S 93W) SEC 32 TWP 6S RGE 93W
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	OTHER SERVICES RPM ELEVATIONS: KB 7629 FT DF GL 7603 FT
GL KB KB	ELEVATION 7603 FT 26 FT ABOVE P.D.

DATE		30-Aug-2014		
RUN	TRIP	1	1	
SERVICE ORDER		US089276		
DEPTH DRILLER		10199 FT		
DEPTH LOGGER		10163 FT		
BOTTOM LOGGED INTERVAL		10153 FT		
TOP LOGGED INTERVAL		26 FT		
TIME STARTED		9:30		
TIME FINISHED		16:00		
OPERATOR RIG TIME		6.5 HOURS		
TYPE OF FLUID IN HOLE		WATER		
FLUID DENSITY		NA		
FLUID SALINITY		NA		
FLUID LEVEL		117 FT		
LOGGED CEMENT TOP		NA		
WELLHEAD PRESSURE		0 PSI		
MAXIMUM HOLE DEVIATION		NA		
NOMINAL LOGGING SPEED		65 F/MN		
MAX. RECORDED TEMP.		244 DEGF		
REFERENCE LOG		NA		
REFERENCE LOG DATE		NA		
EQUIP. NO.	LOCATION	6670	GRAND JCT.	
RECORDED BY	NEWELL			
WITNESSED BY	JEFF 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	1101 FT
8.75 IN	1101 FT	10251 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	1101 FT
4.5 IN	11.6 LB/F	P-110	0 FT	10251 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 3 feet.

Logged with 0 PSI at wellhead.

BHT = 244 degF  
SJ = 6666' - 6688'

Thank you for choosing Baker Hughes ... The best choice!

EQUIPMENT DATA					
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10404539	CENTRALIZED
1	1	GR/CCL	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: 2

Plotted: Mon Sep 1 12:32:14 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH089276/n012e06.prm  
LOGGING MODE: DEPTH  
TOP DEPTH: 22.750 ft

DIRECTION: UP  
BOTTOM DEPTH: 5698.750 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	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*)	-76	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

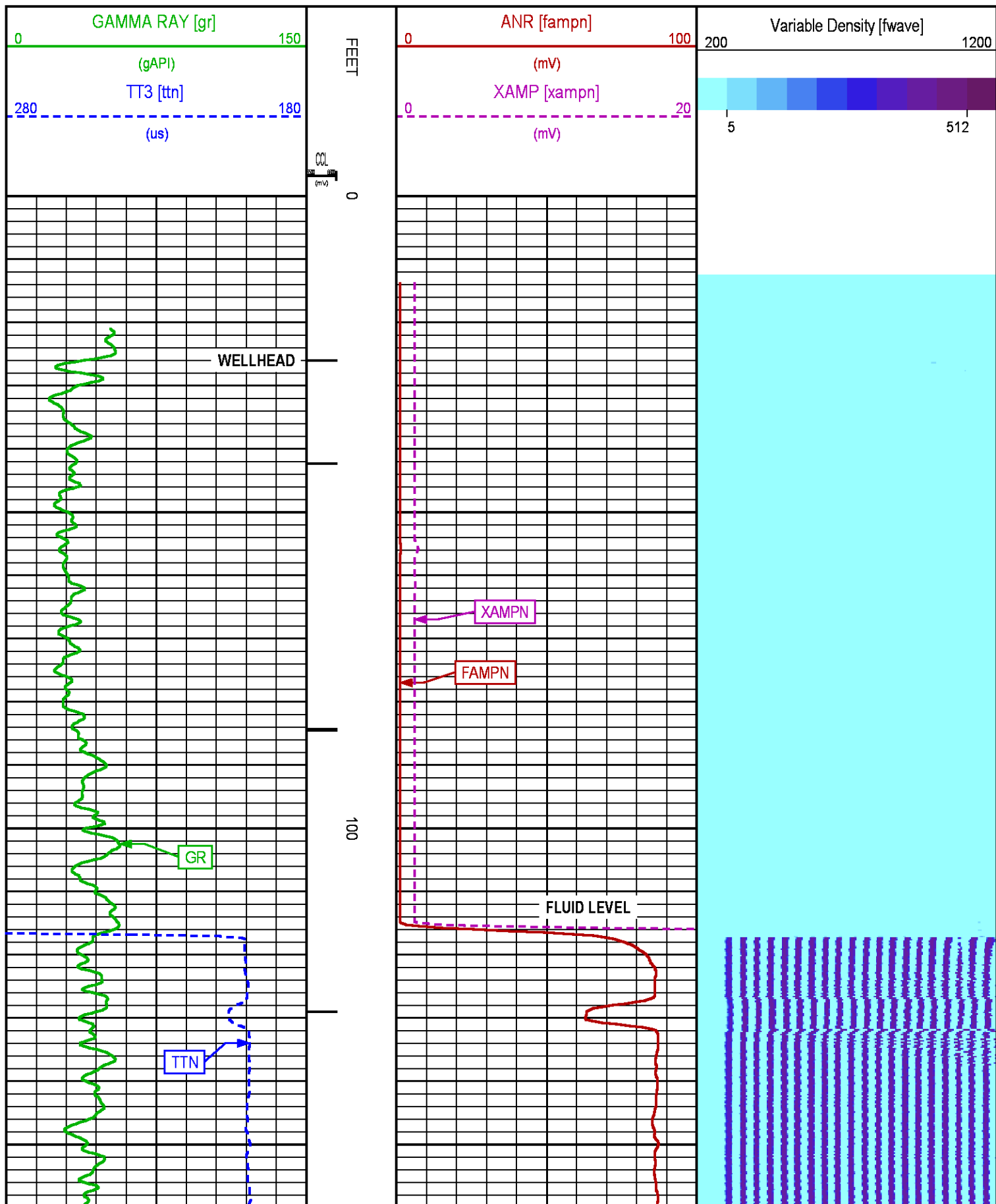
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Aug 30 15:38:57 2014	CASING COLLAR LOCATOR
F1:FAMPN	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 30 15:38:57 2014	FAR WAVE FORM
F1:GR	Aug 30 15:38:57 2014	GAMMA RAY
F1:TTN	Aug 30 15:38:57 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

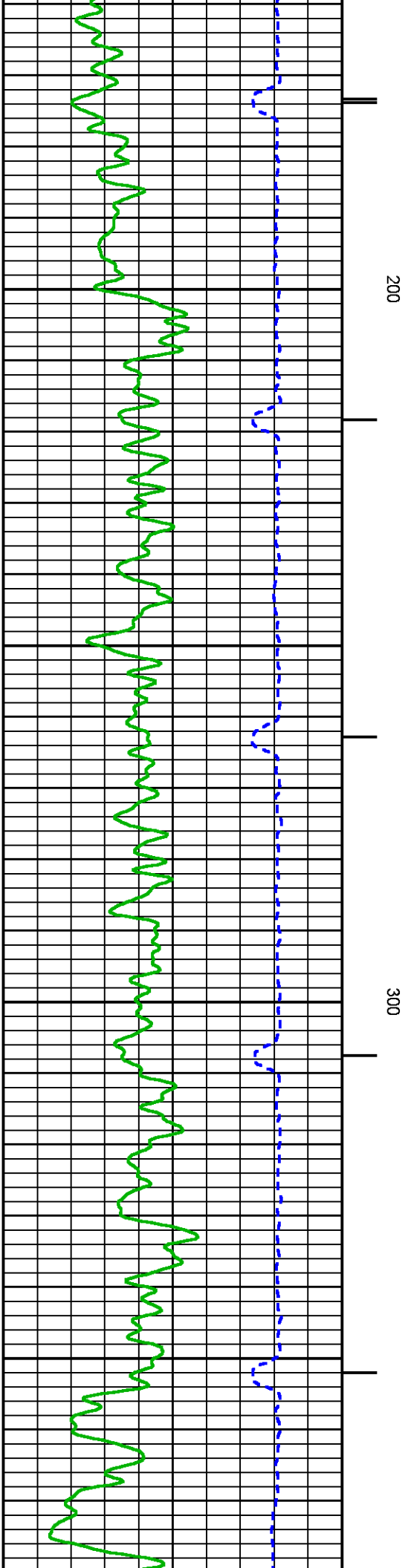
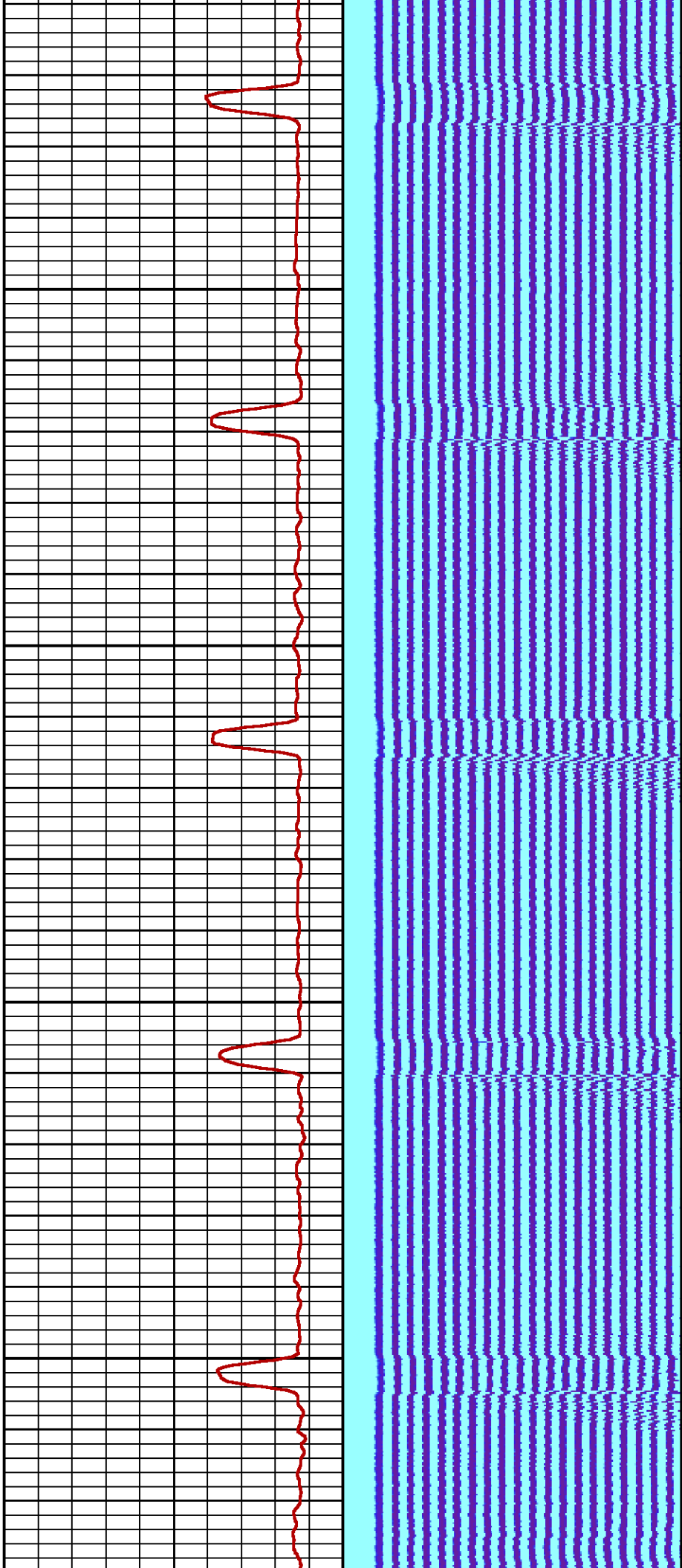
CURVE MEASURE POINT OFFSET

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

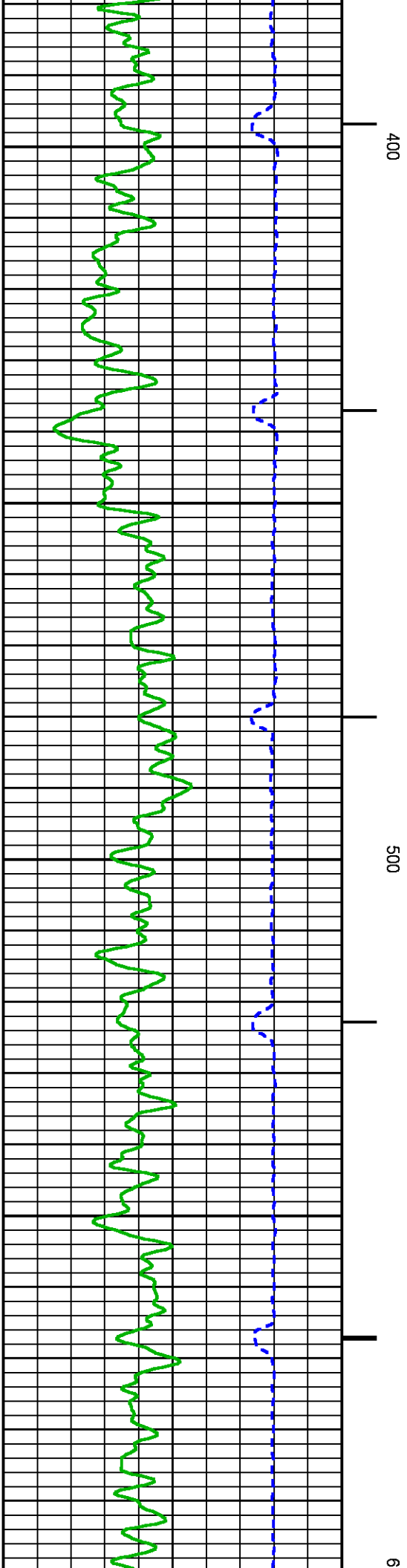
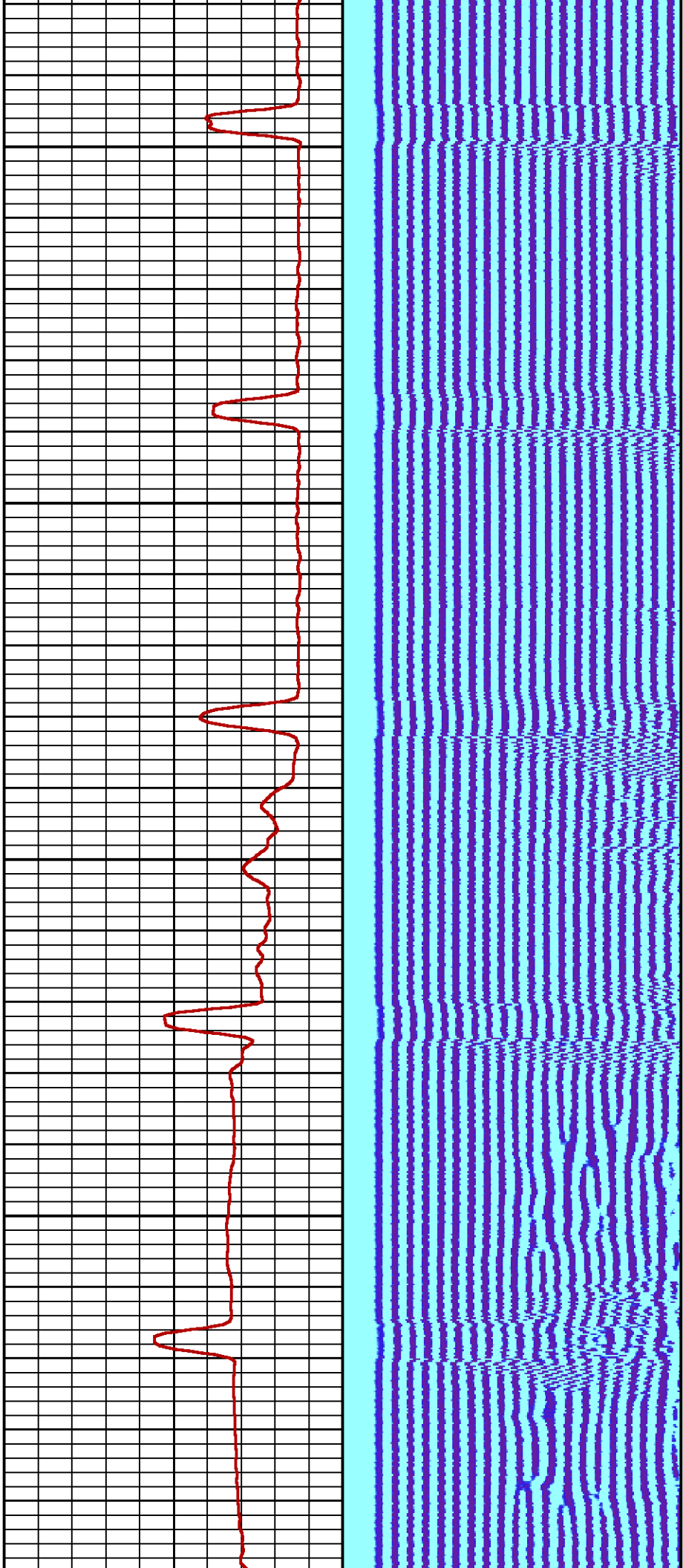
Presentation : HL6670:/dat1a/CH089276/34CBL\_MAIN\_PRIMARY.TVPdf [5 /100 Scale]  
Plot Interval : 0 - 10169.2 Feet

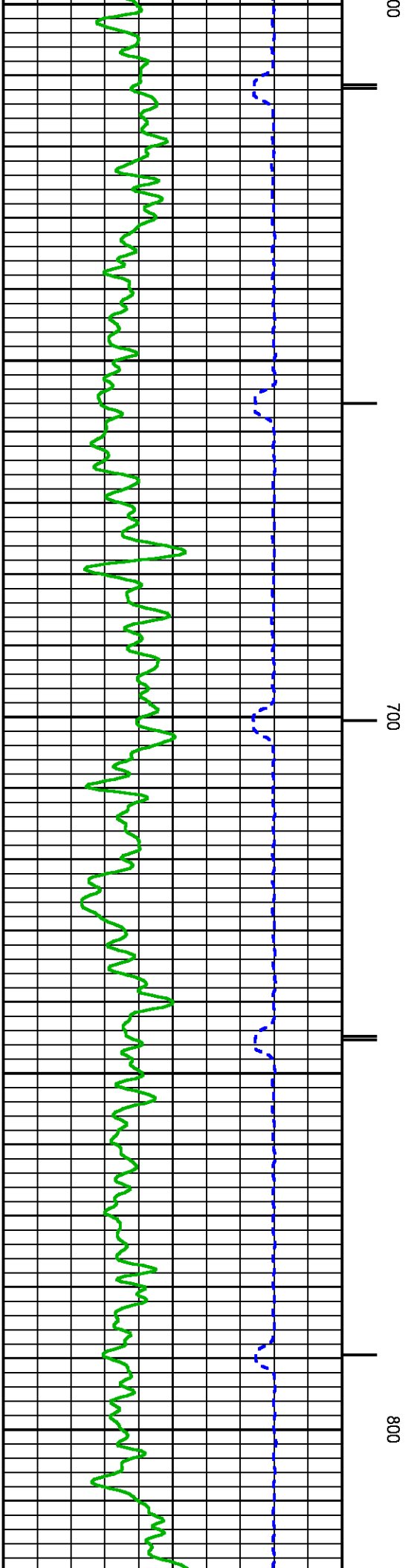
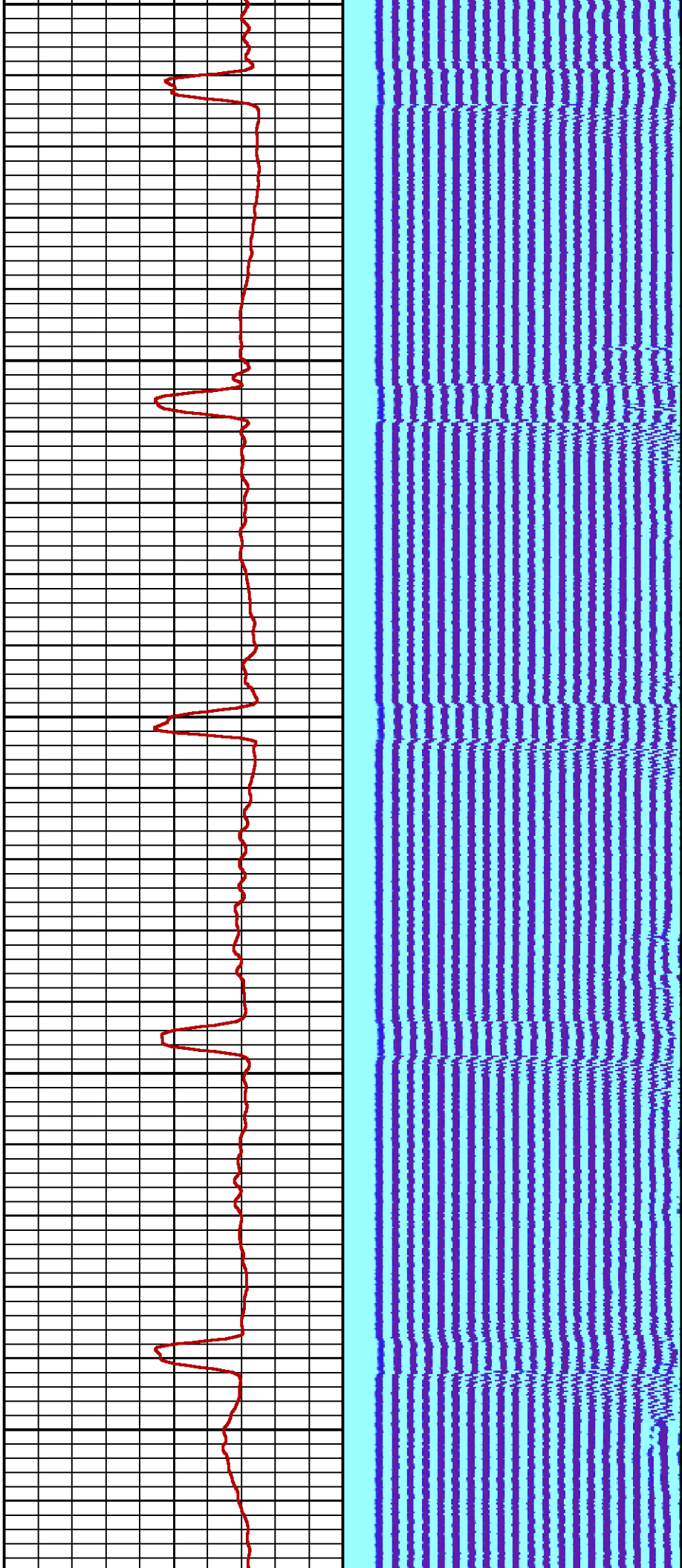
Data File 1 : F1 : HL6670:/dat1a/CH089276/34CBLMAINREDO.xtf  
Created On : Aug 30 15:38:57 2014  
Company : WPX ENERGY  
Well : FEDERAL NER 34-32  
Field : RULISON  
File Interval : 12.5 - 10169.2 Feet  
OCT : n012e

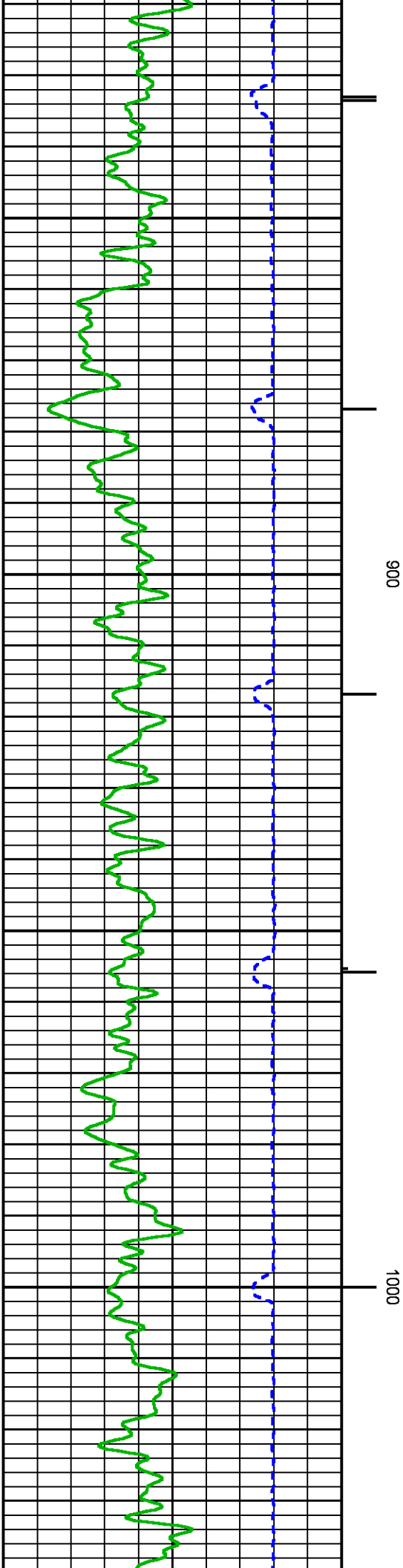
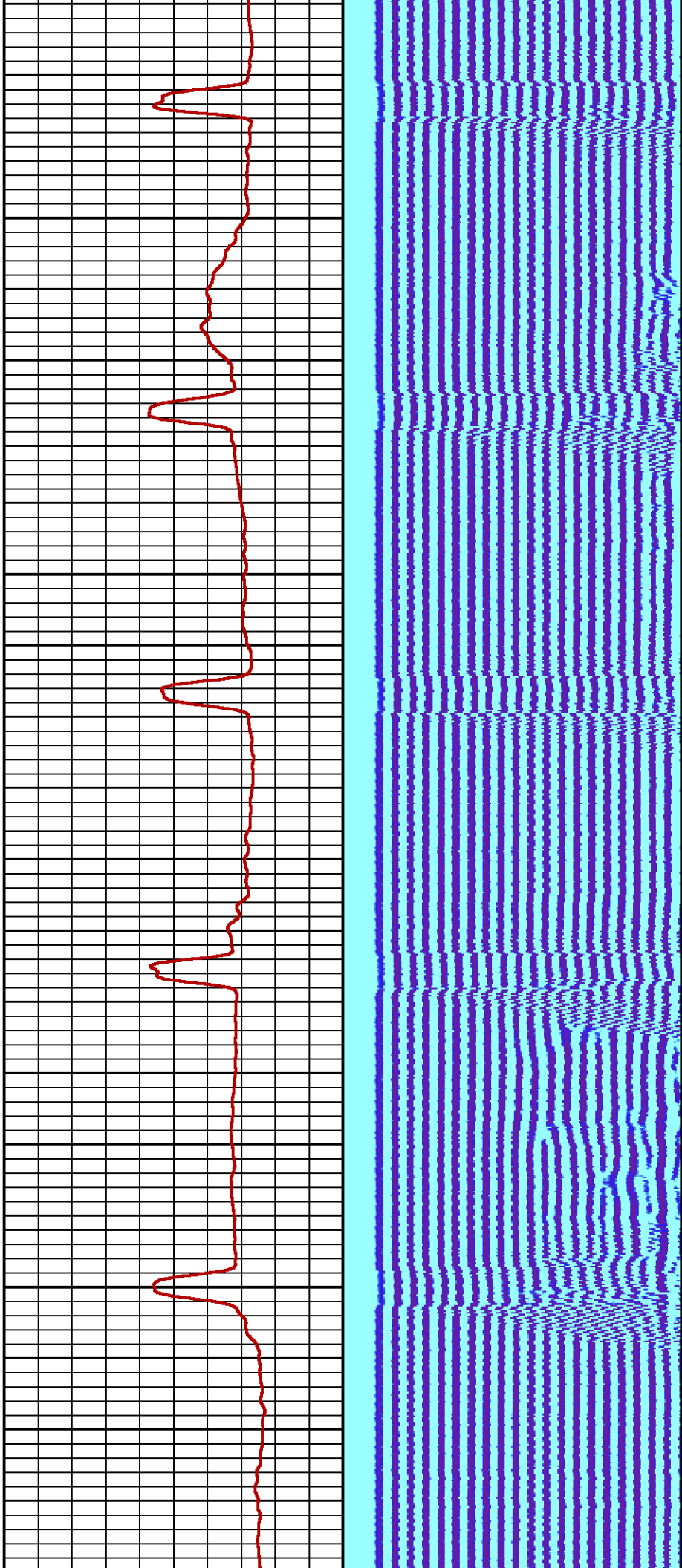


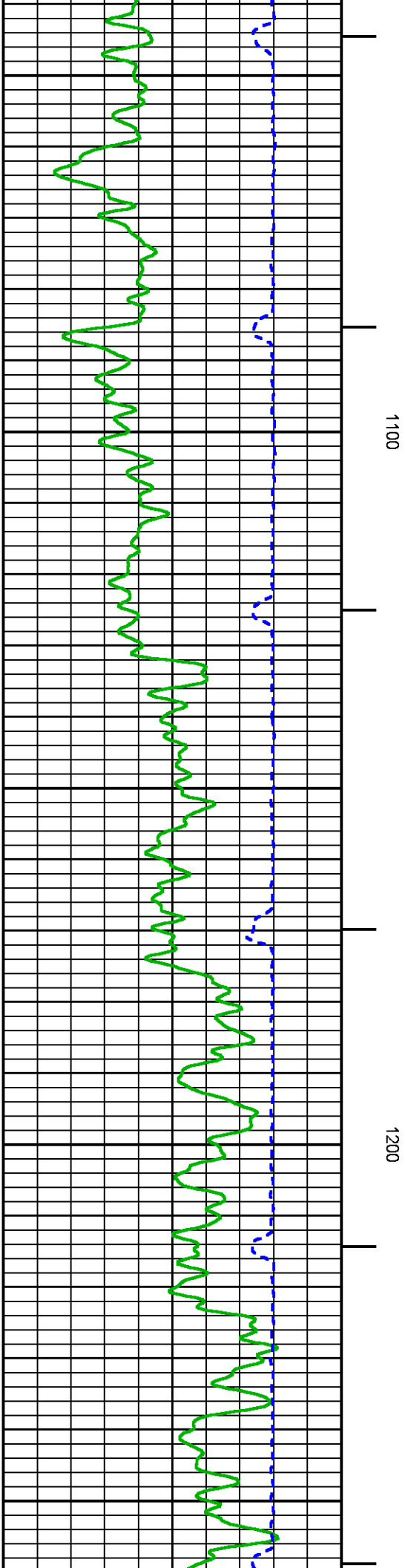
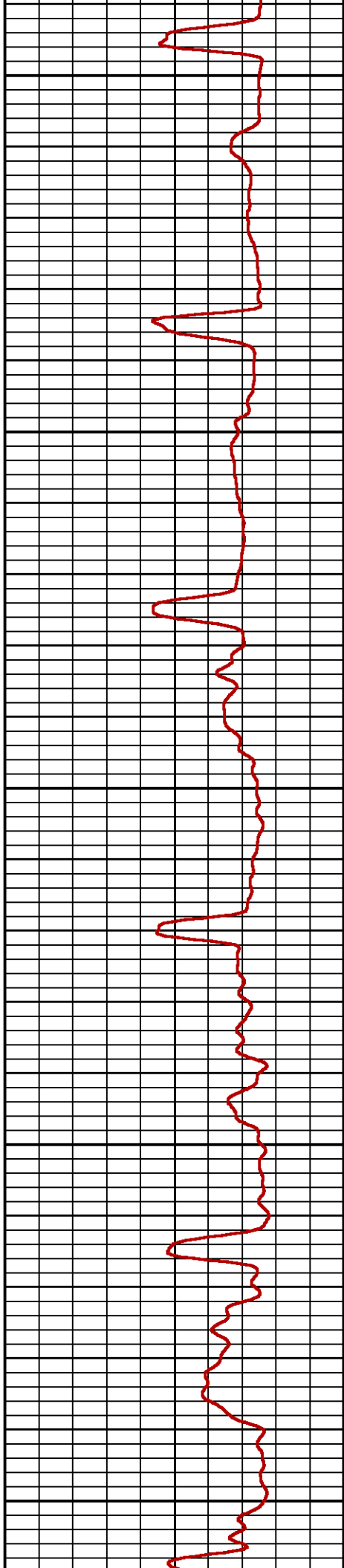
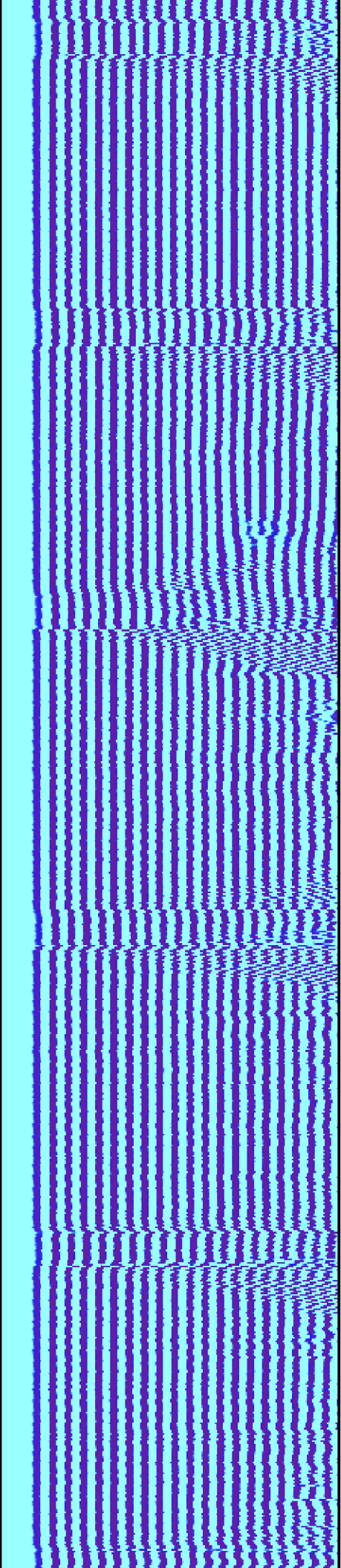




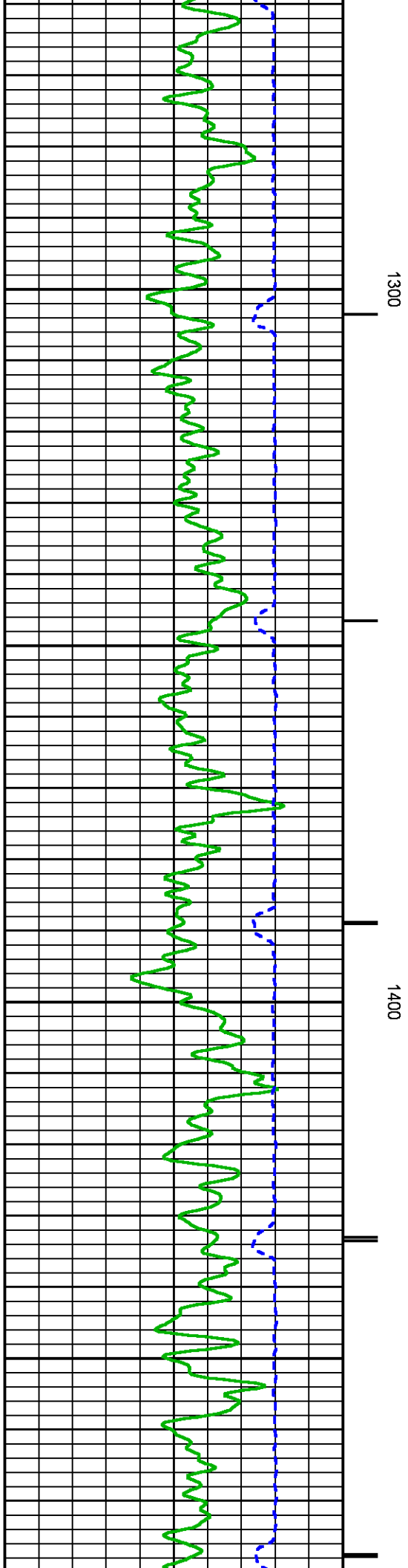
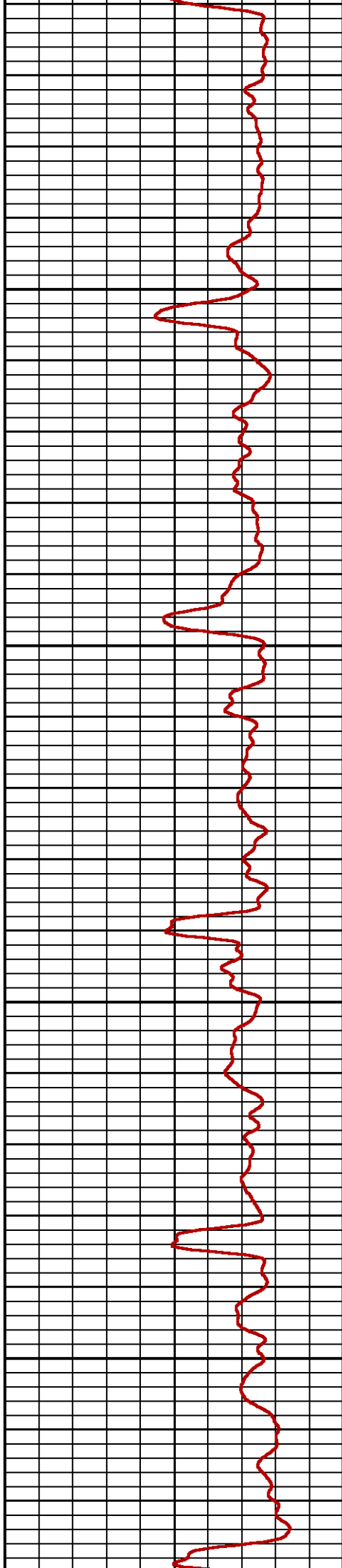
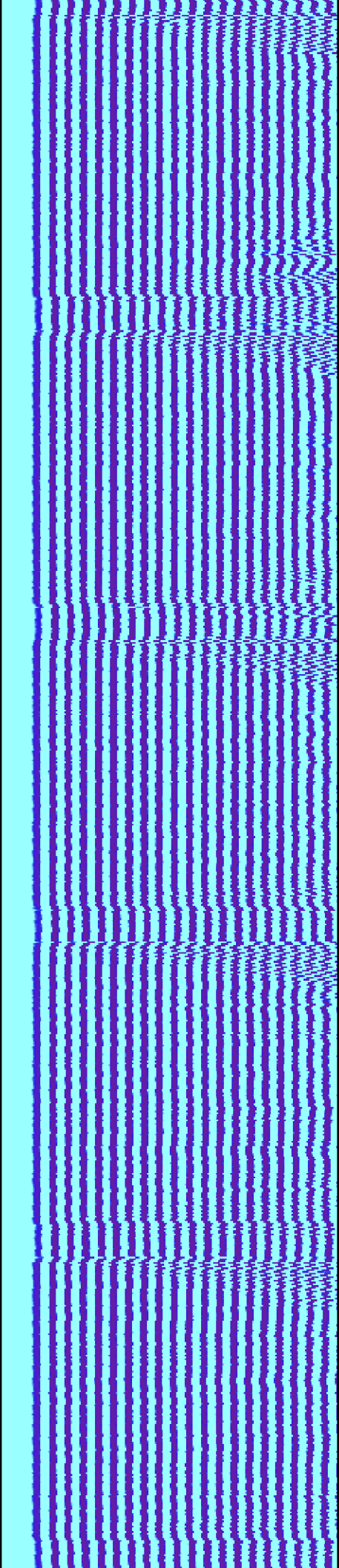


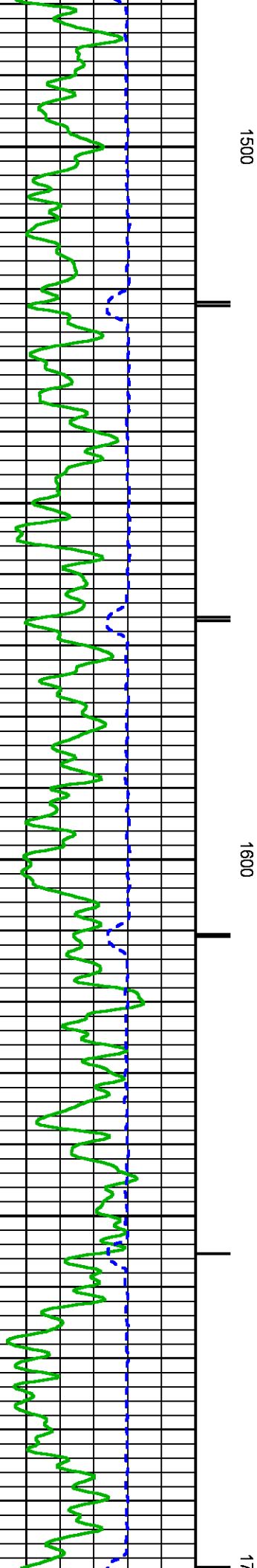
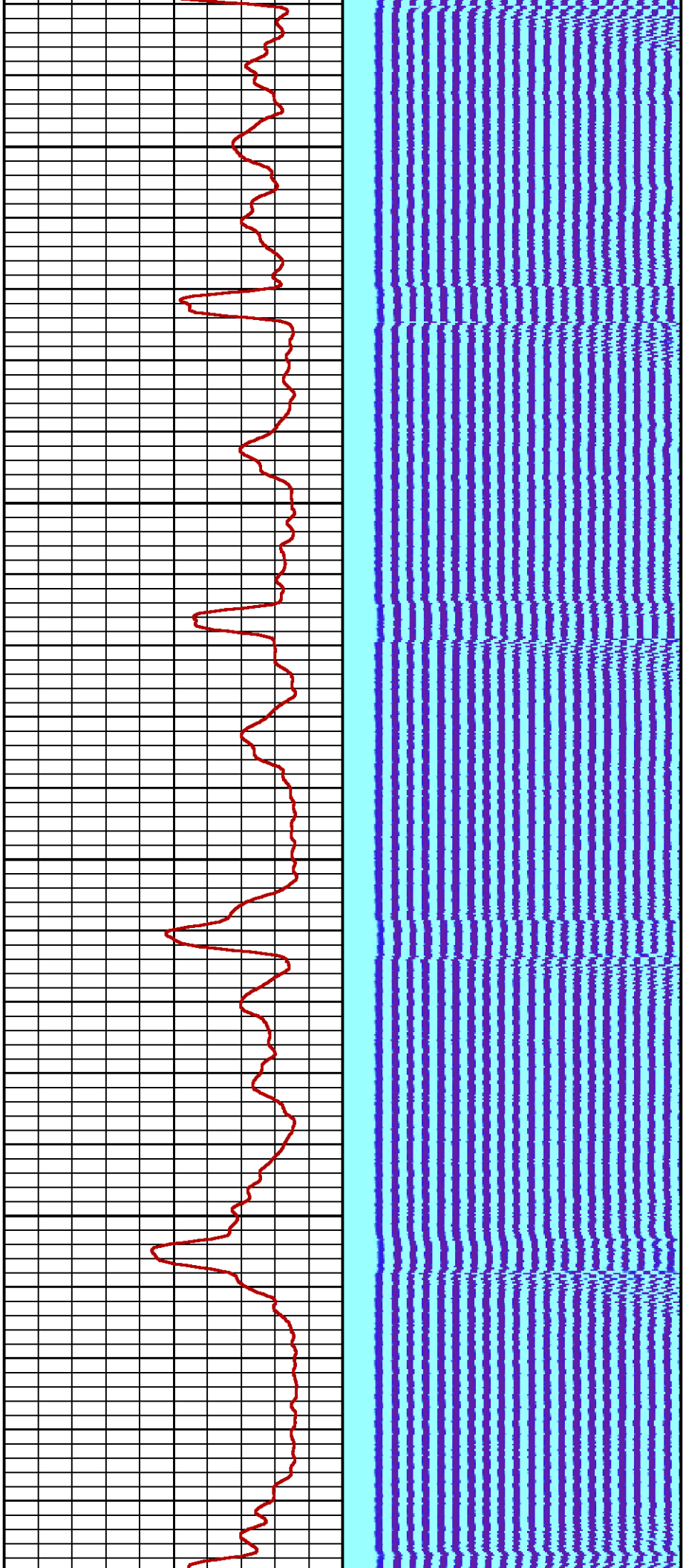


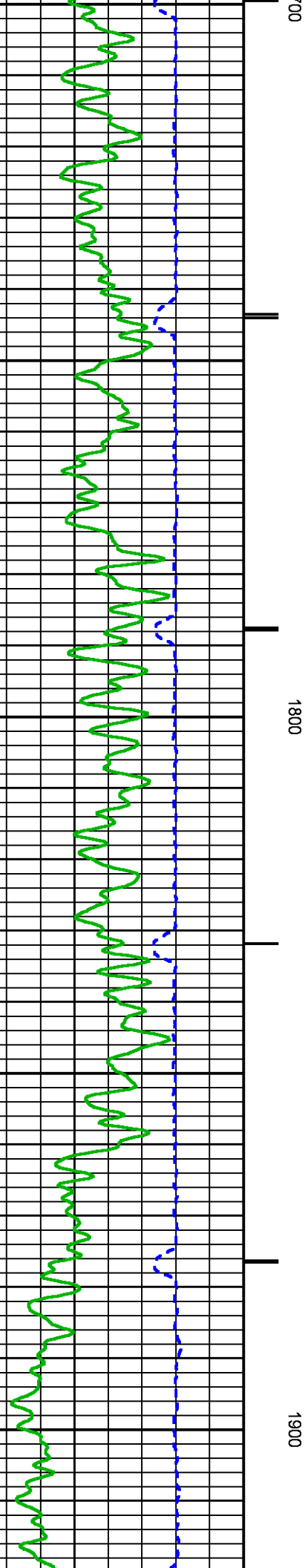
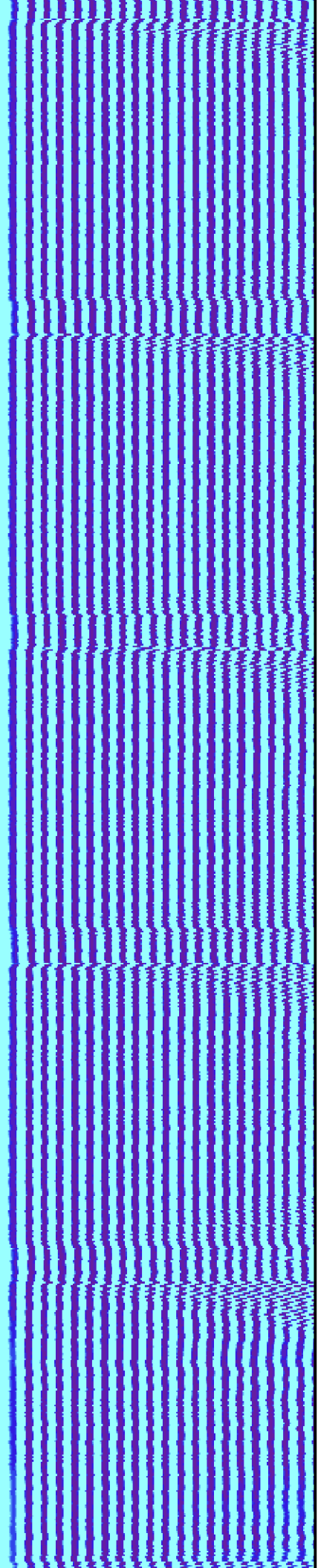
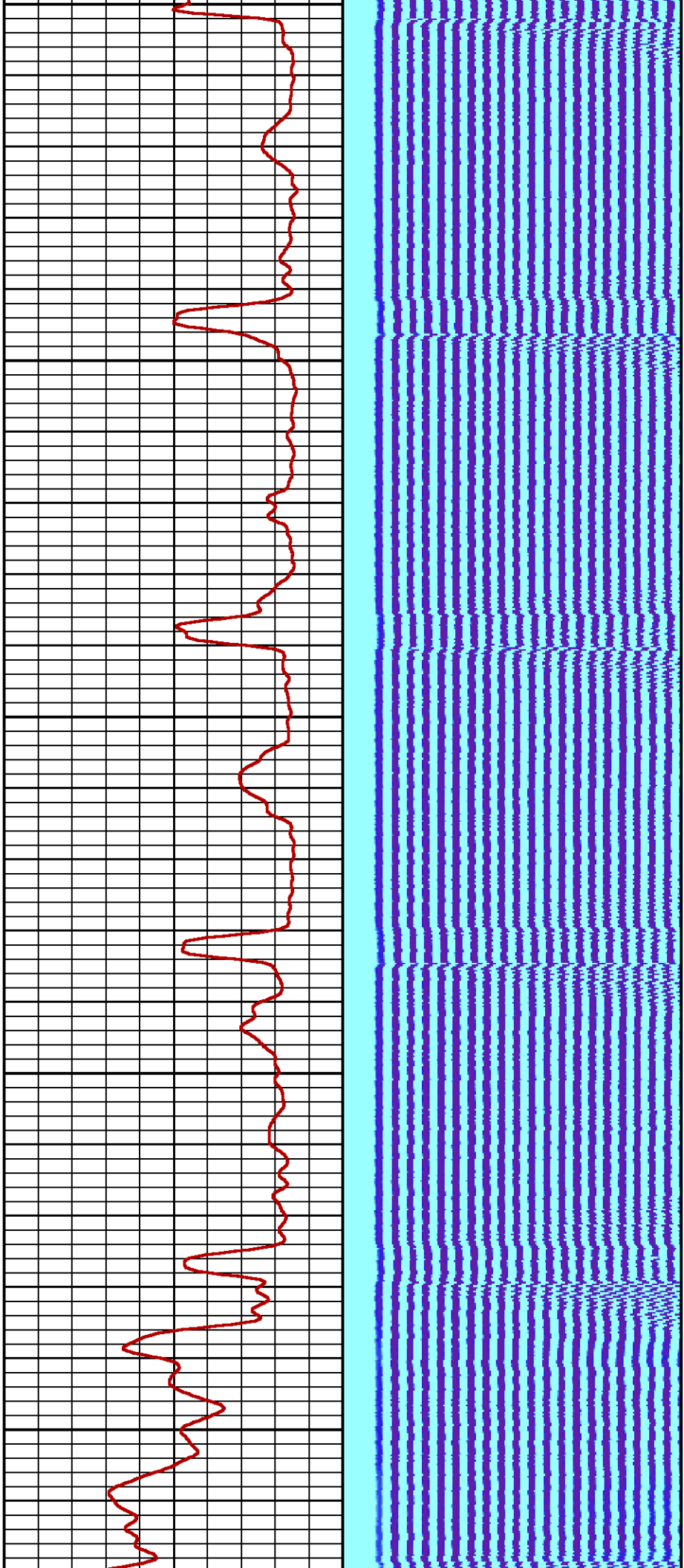


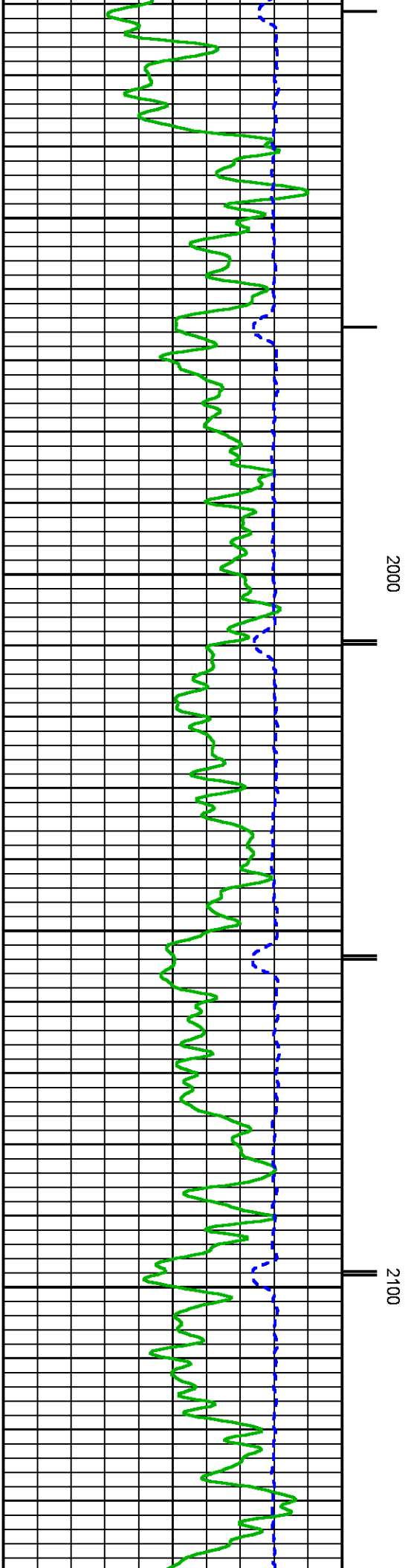
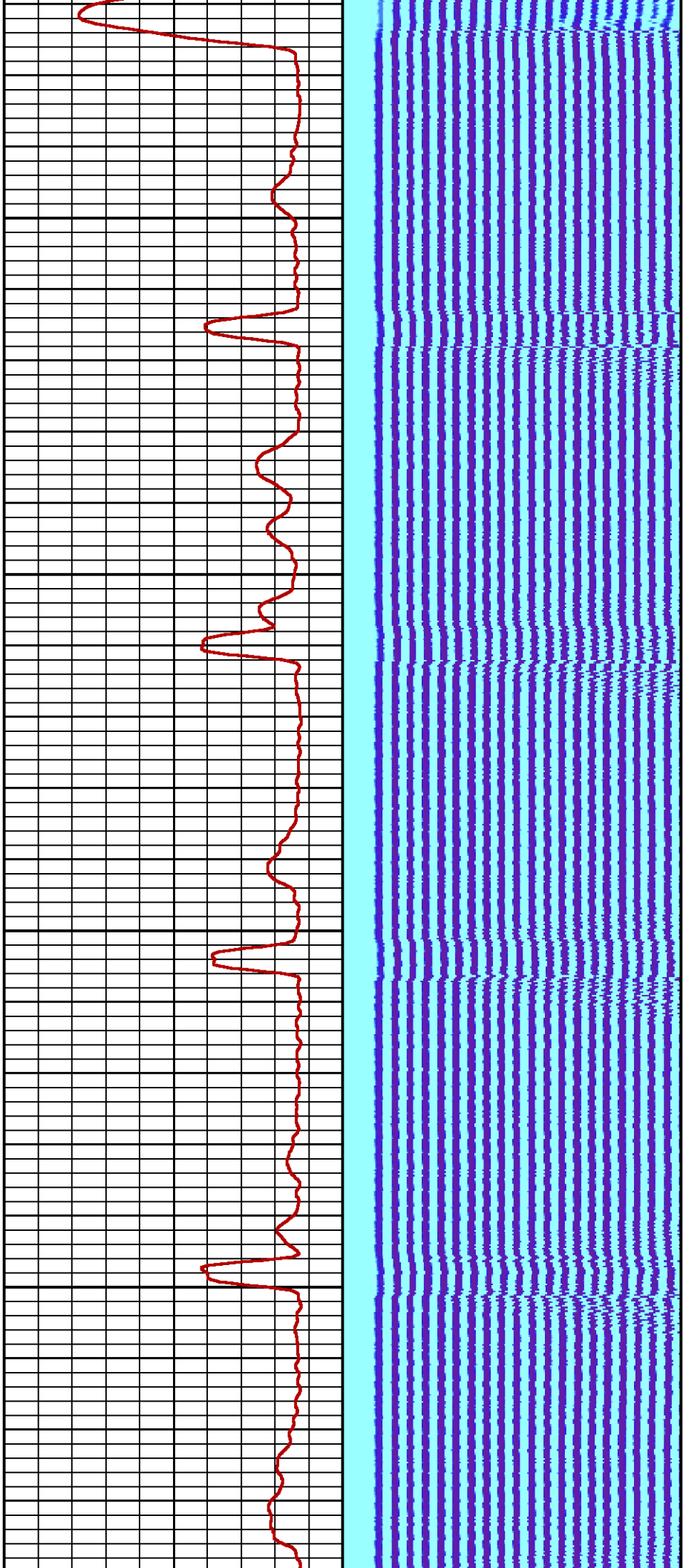




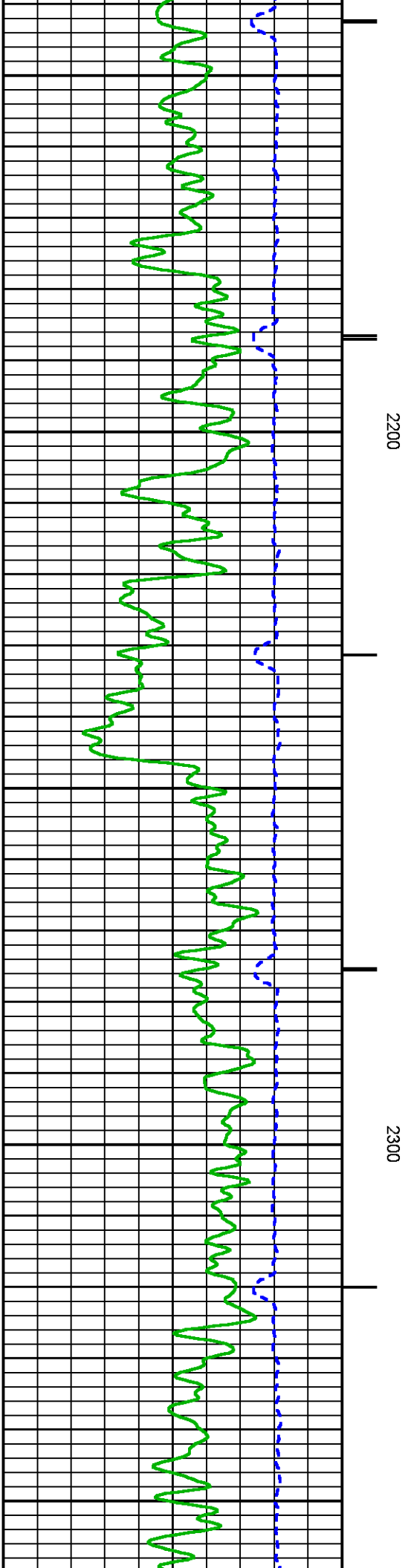
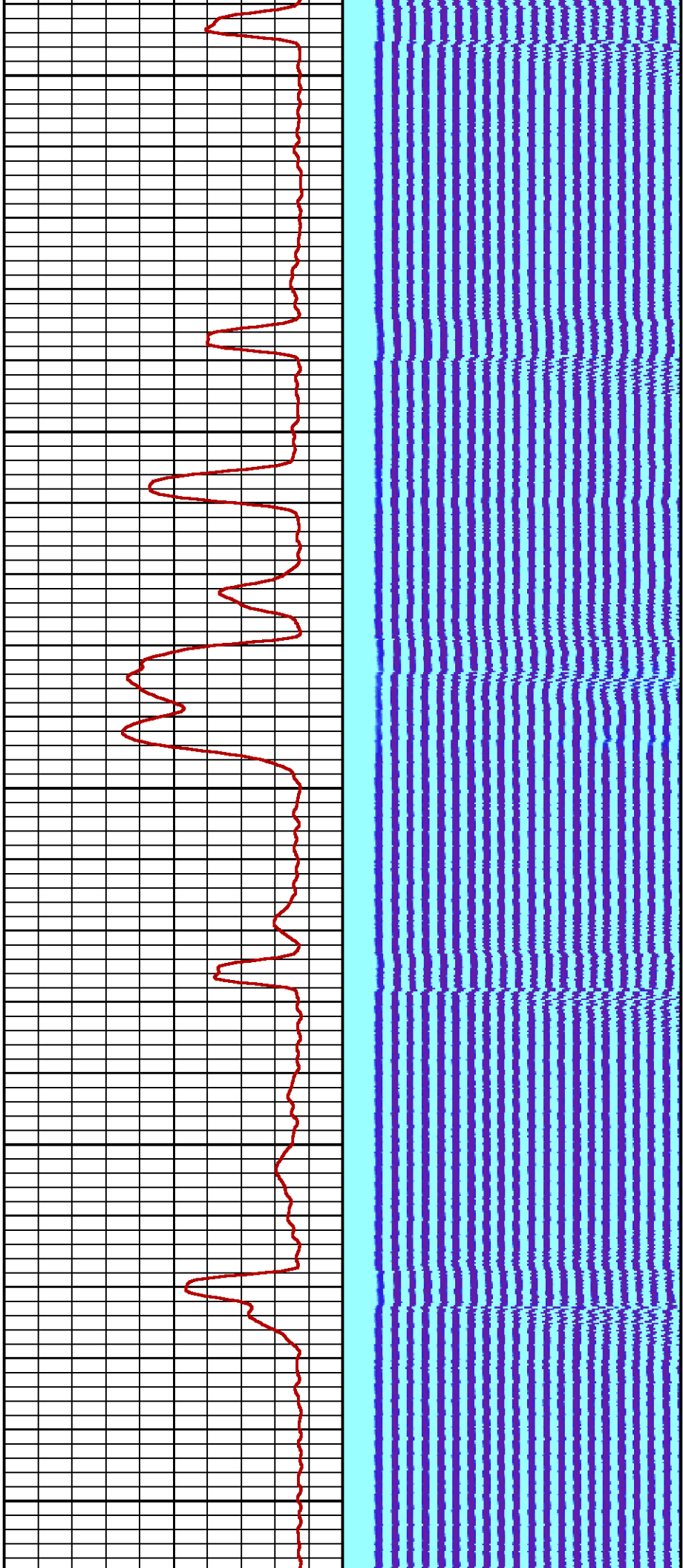


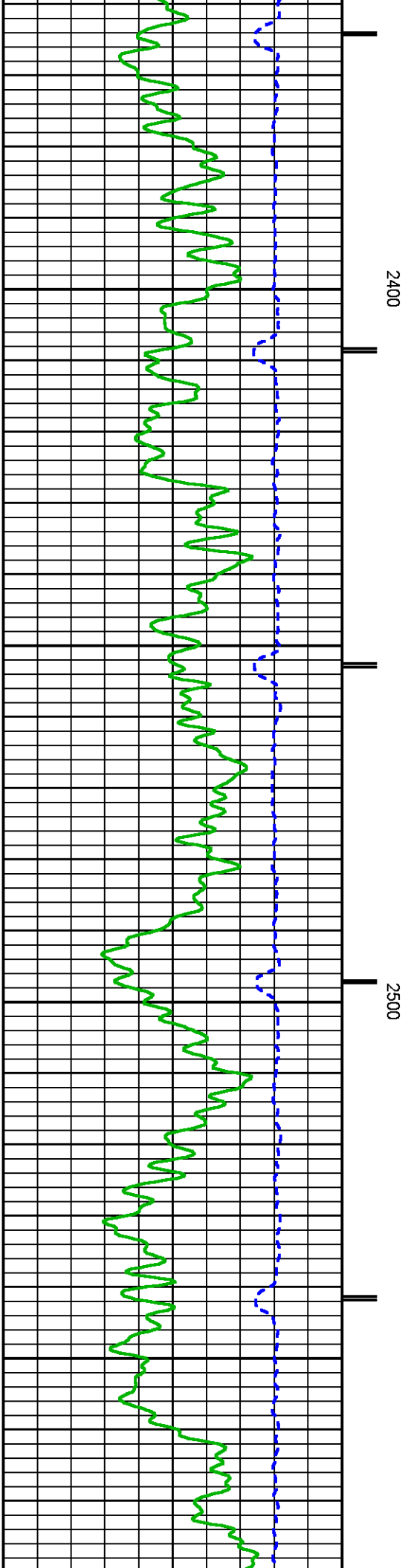
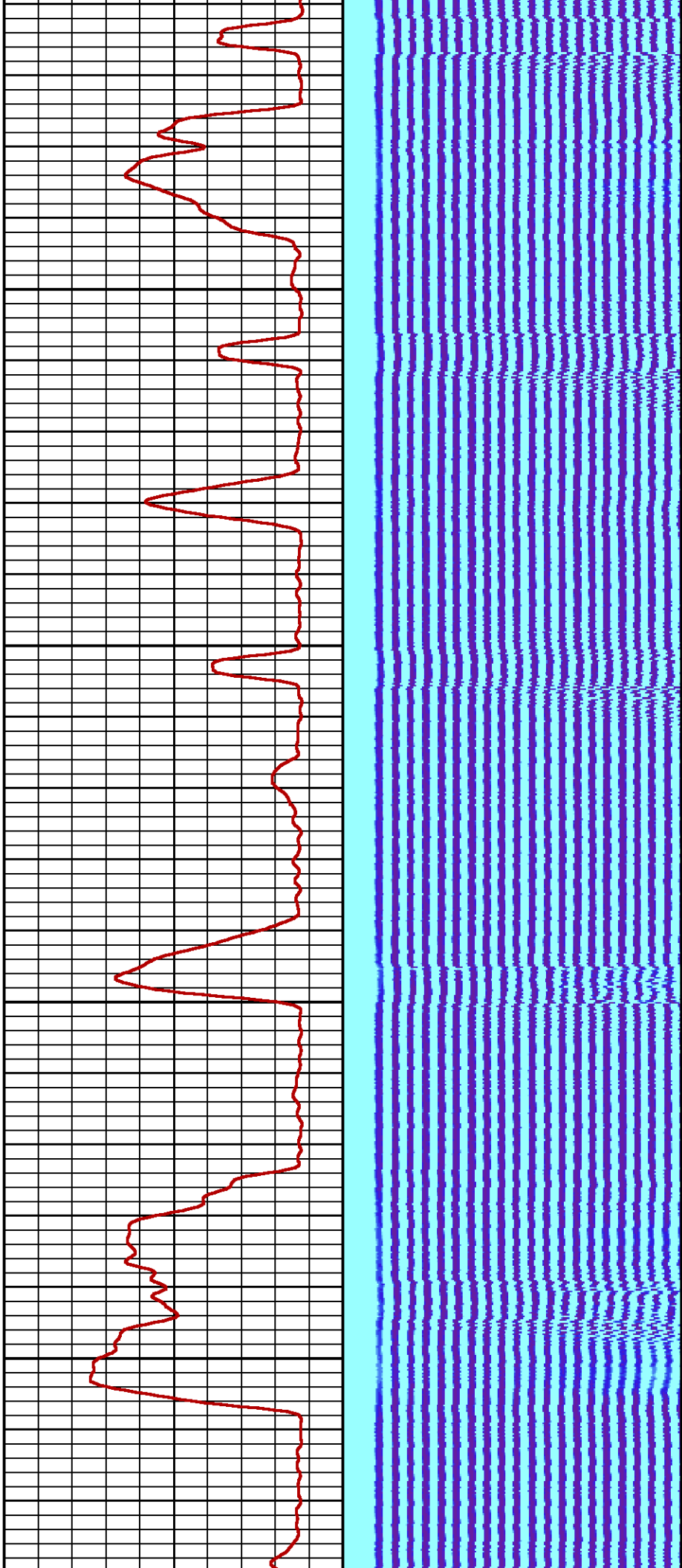


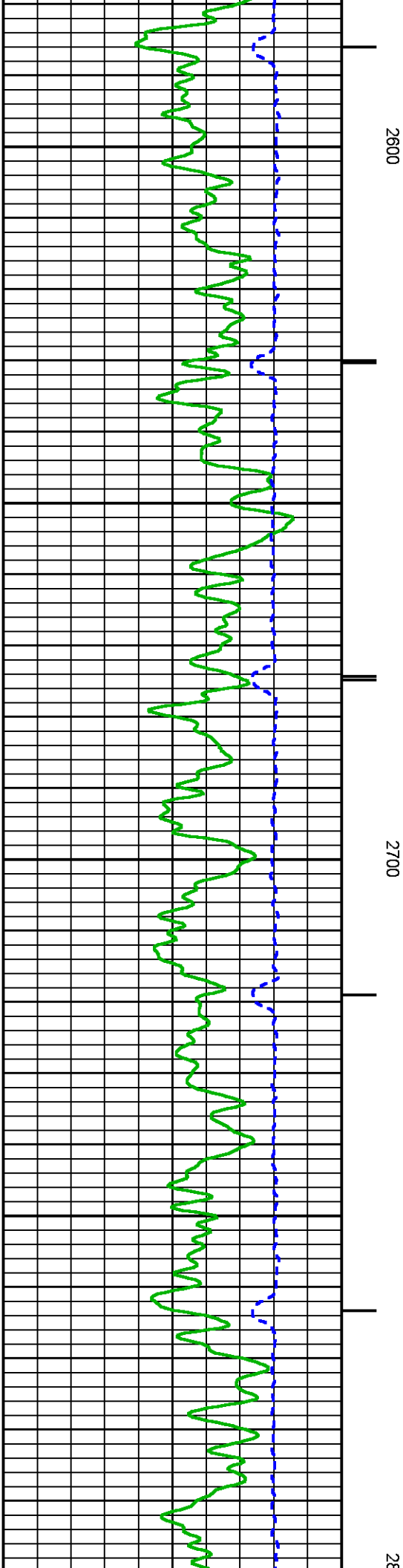
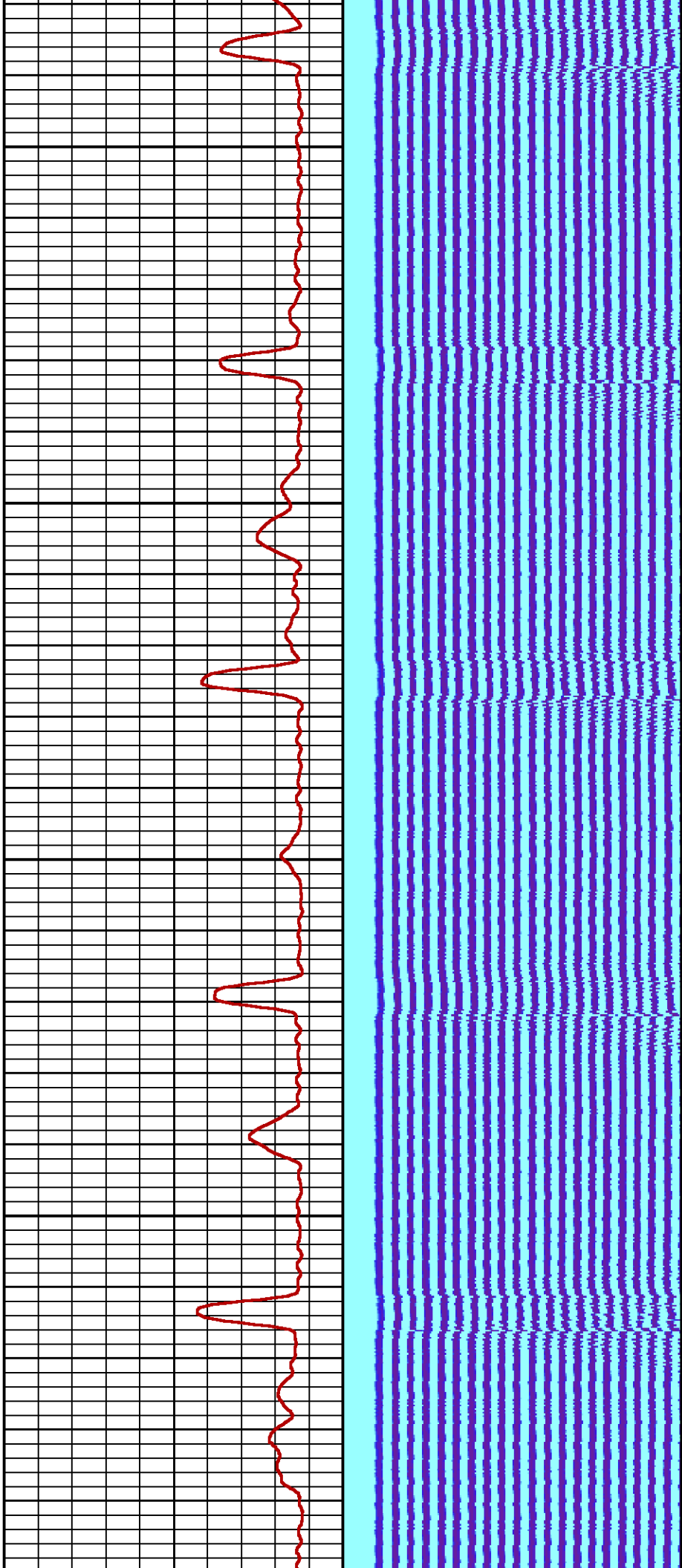


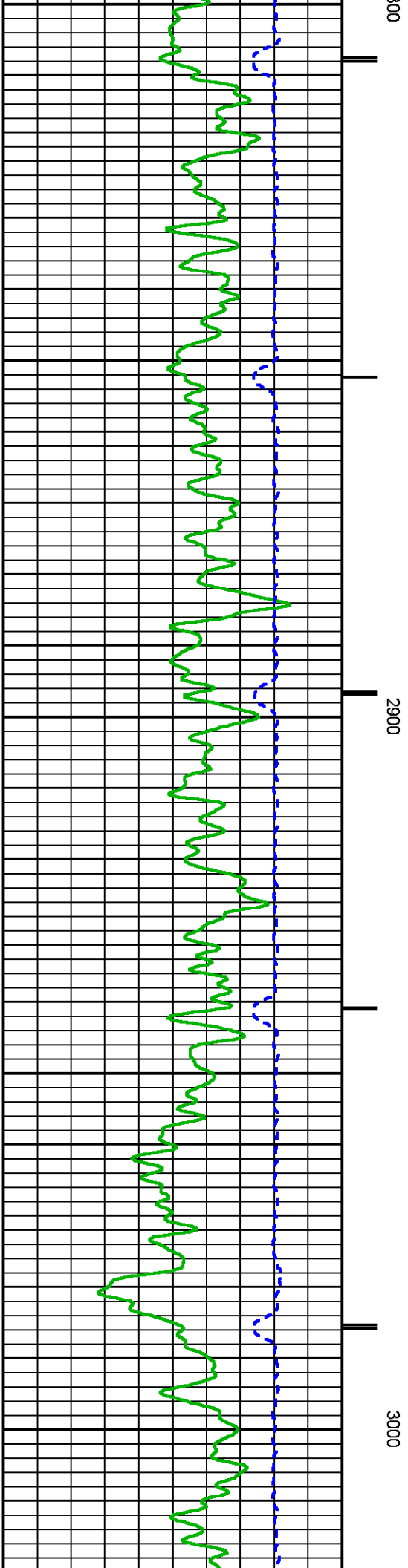
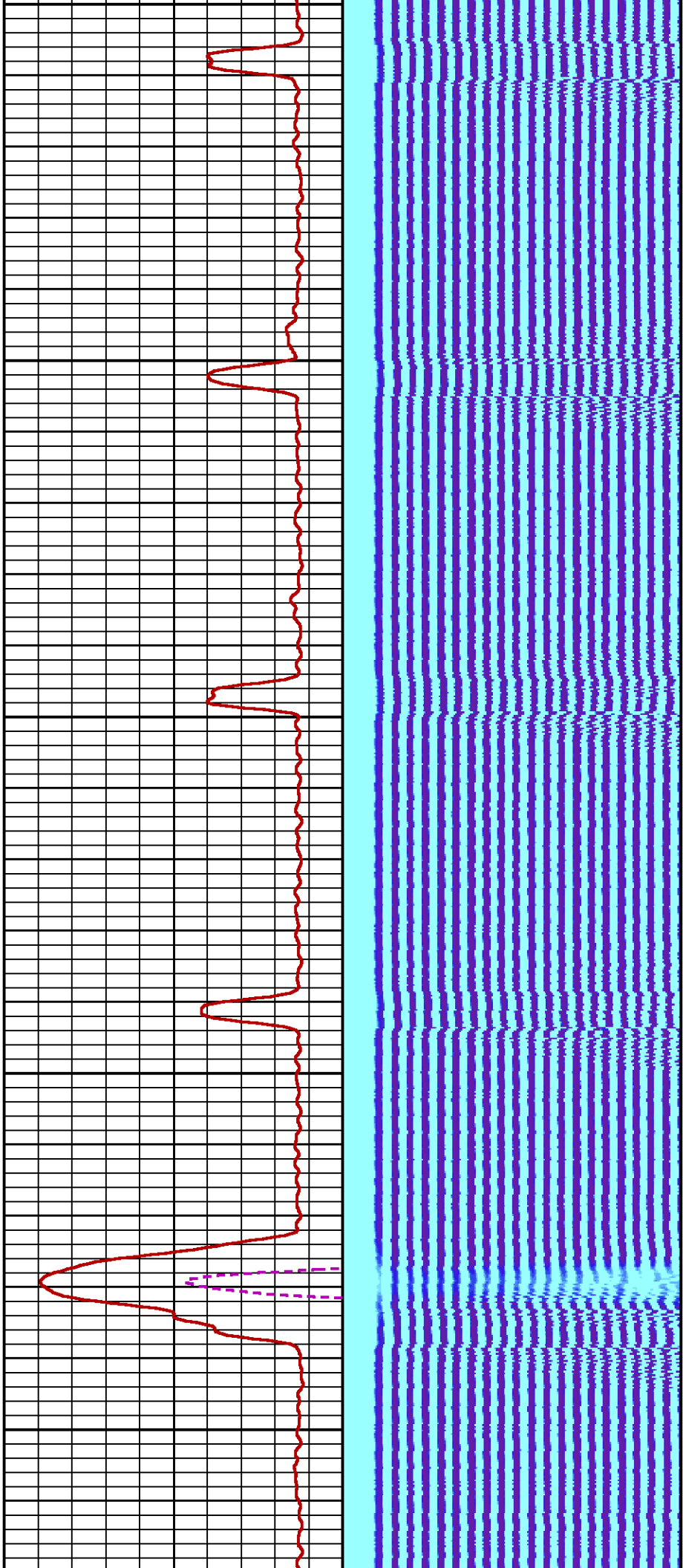


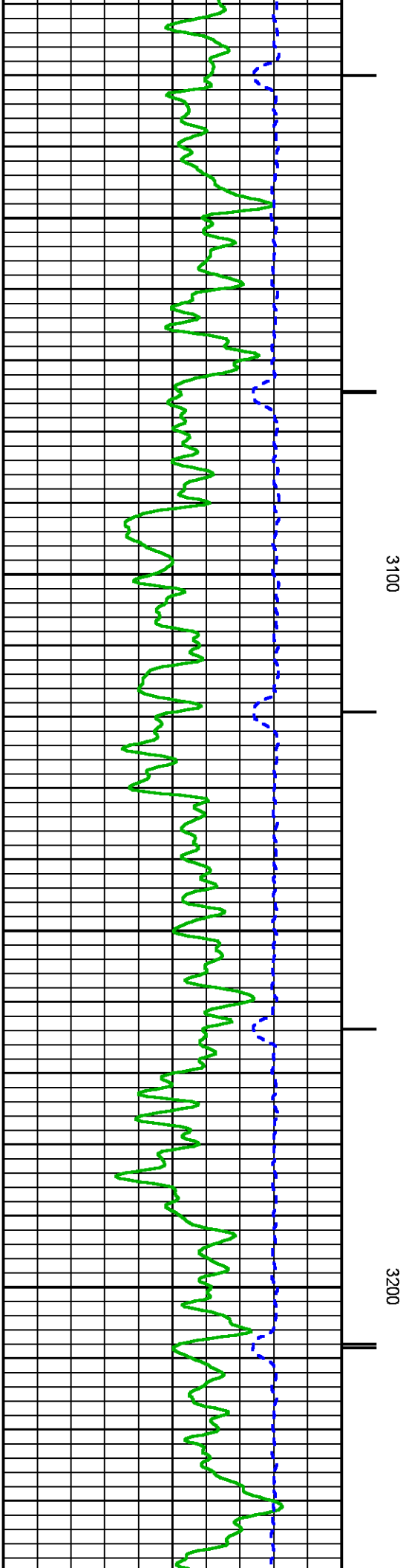
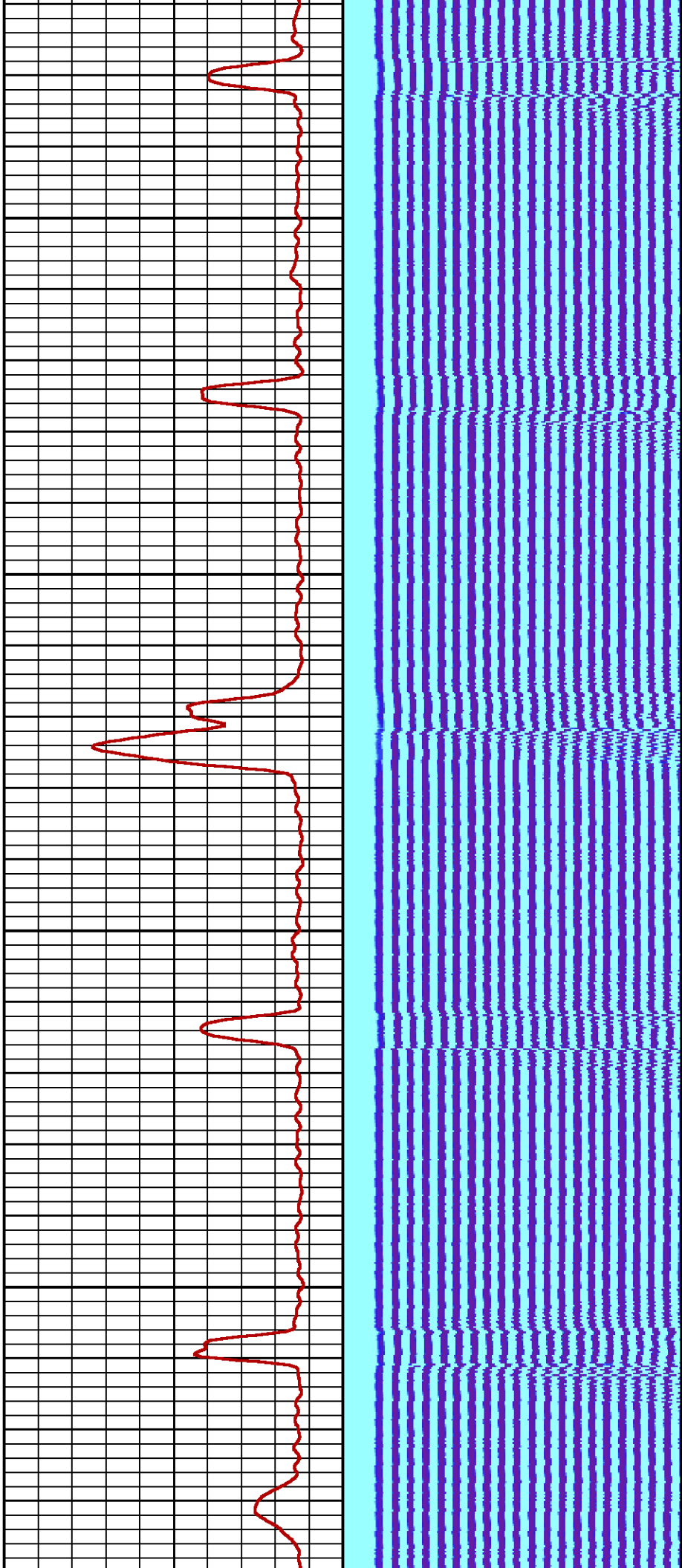




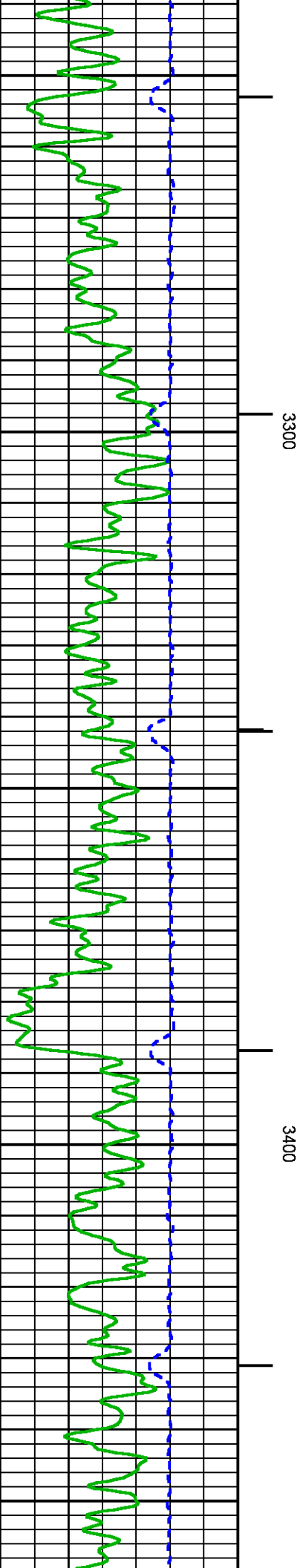
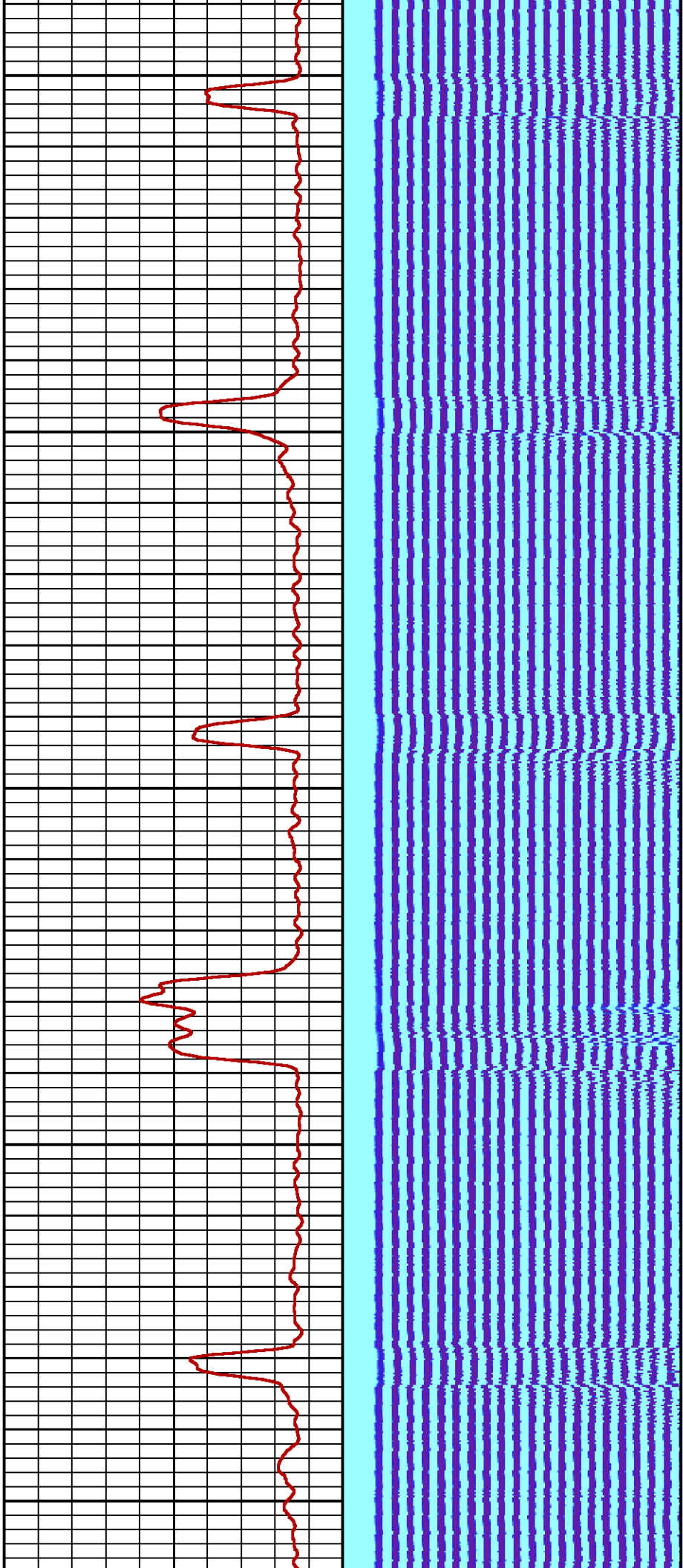


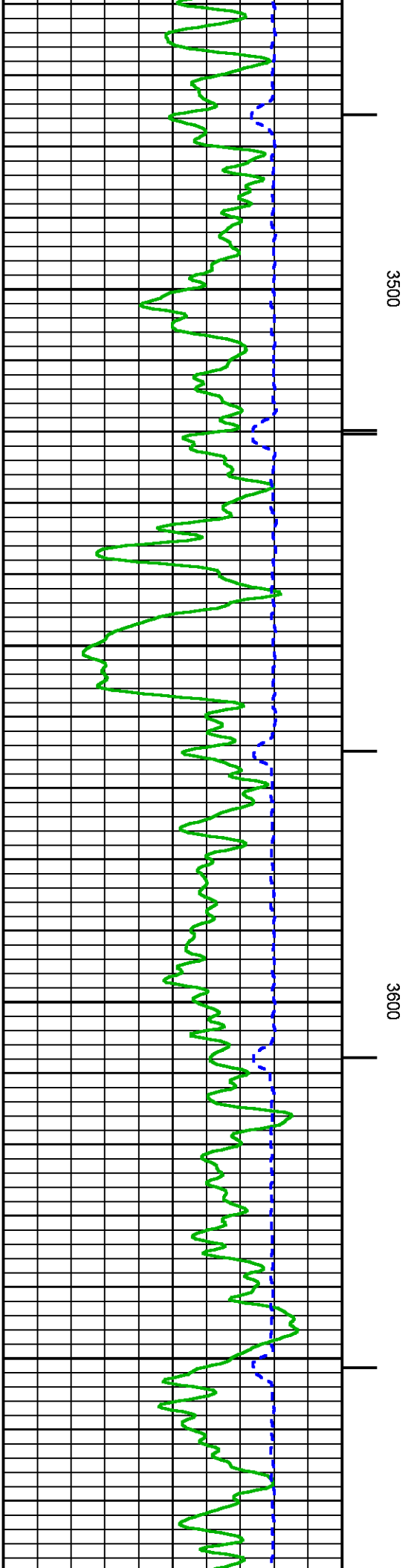
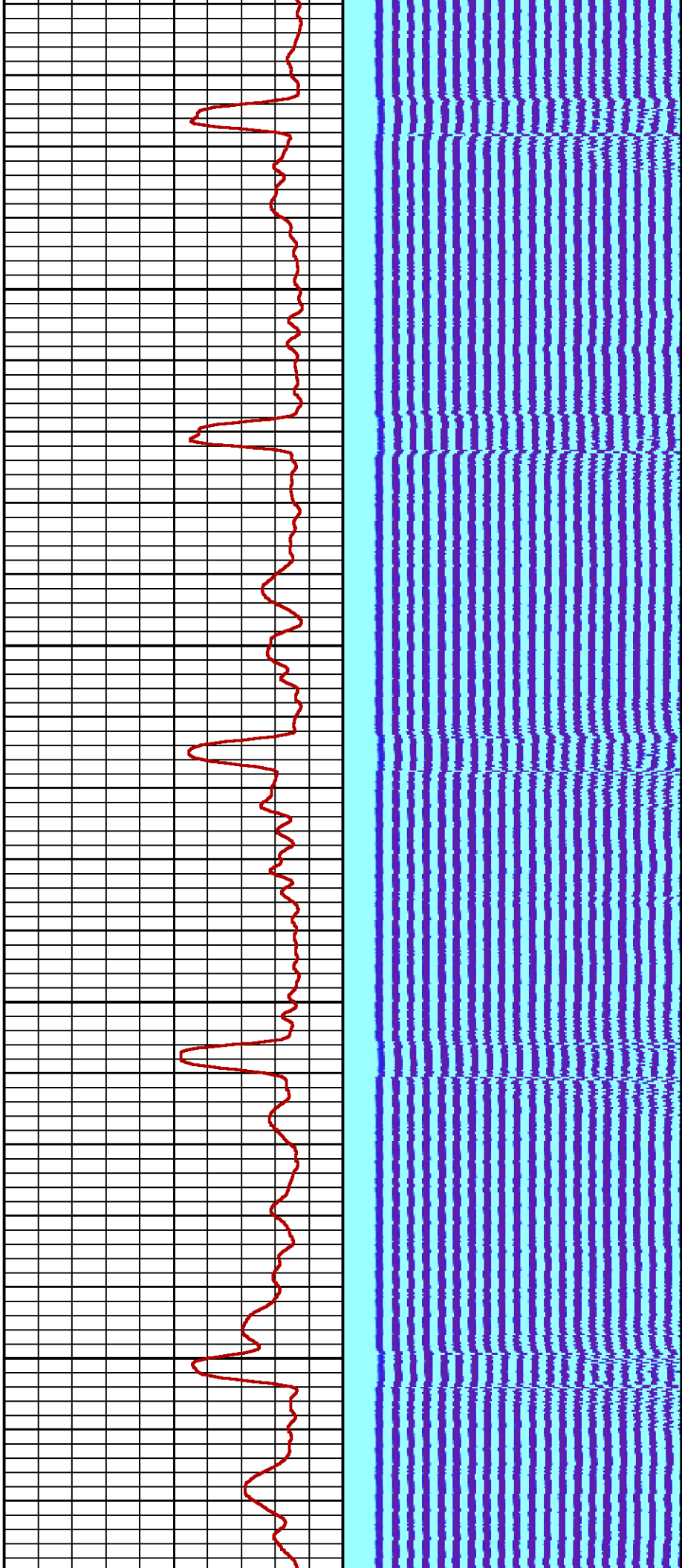


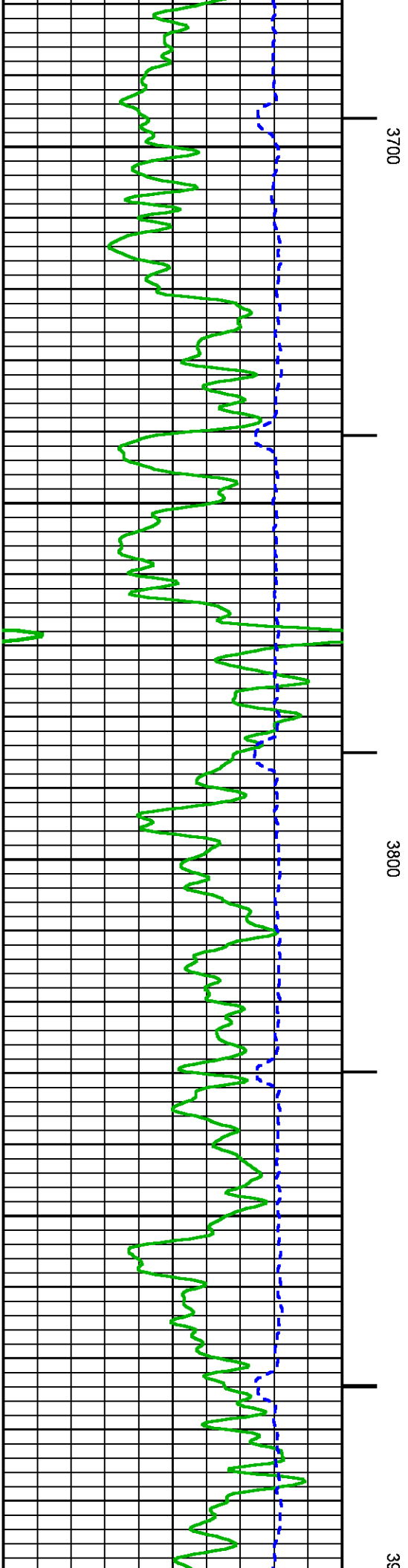
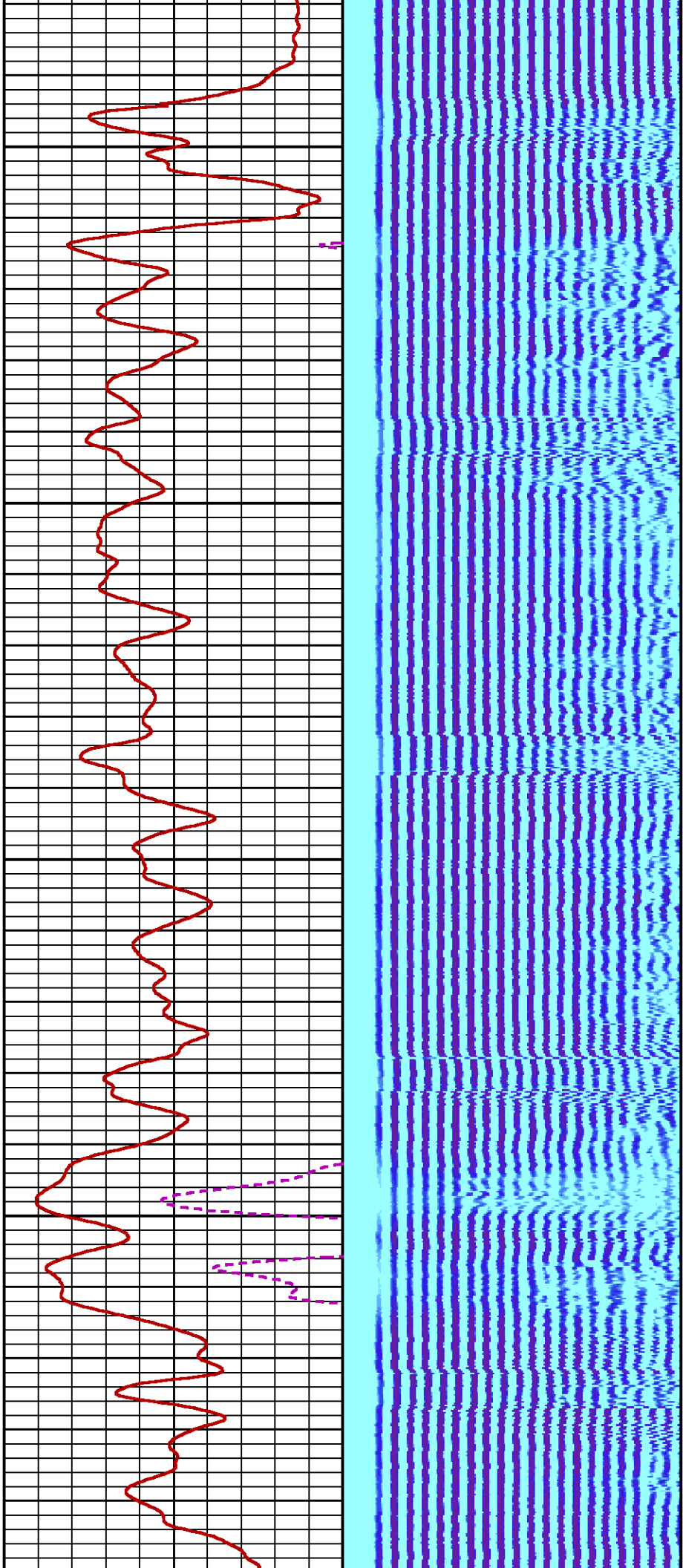




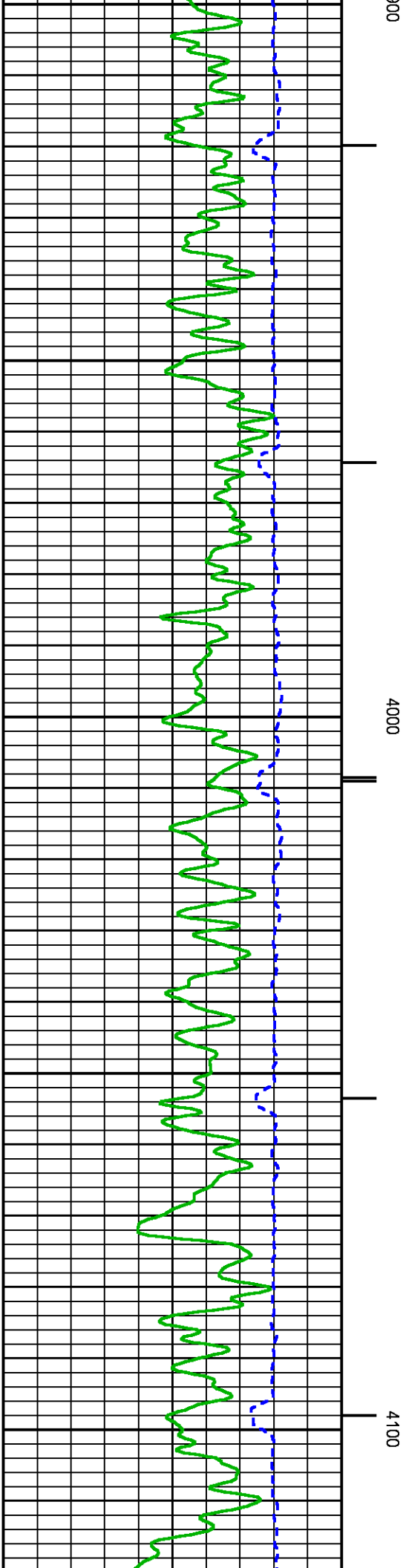
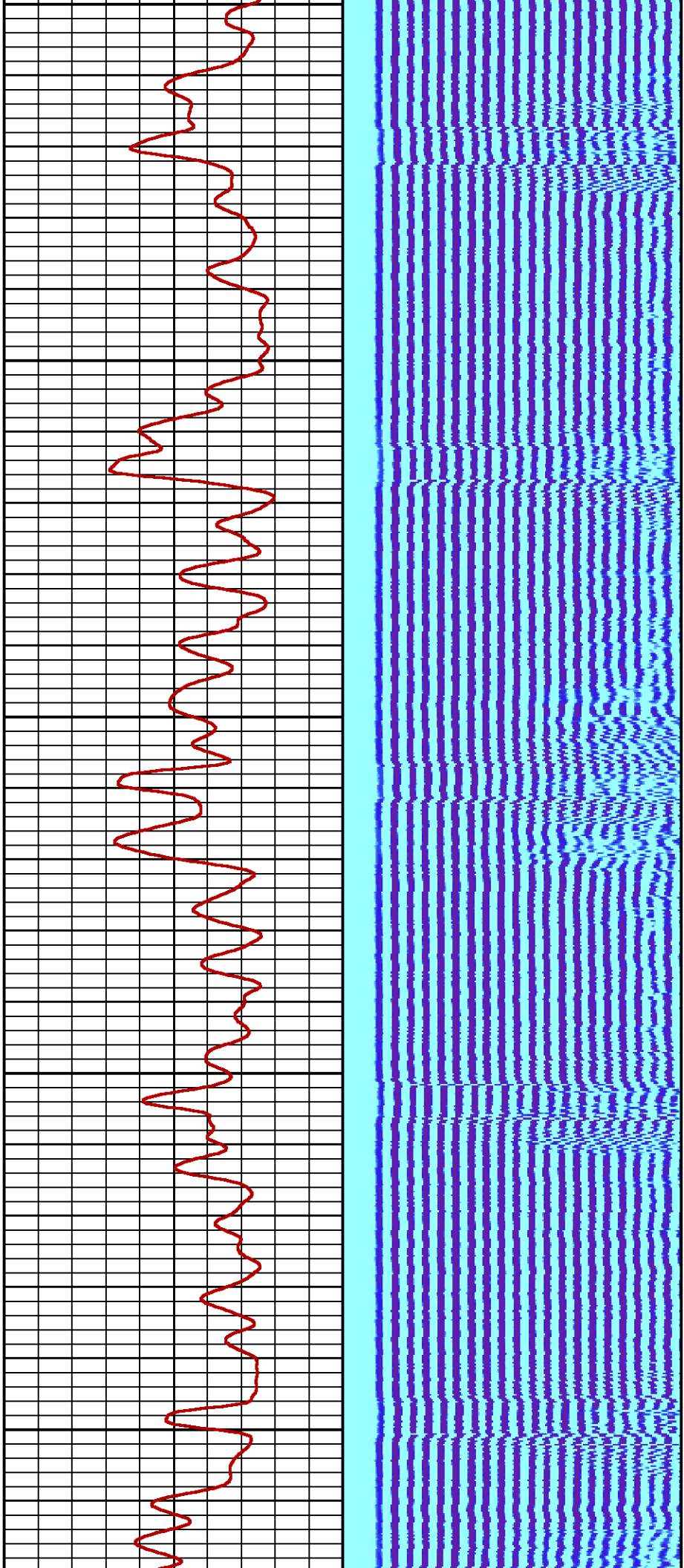


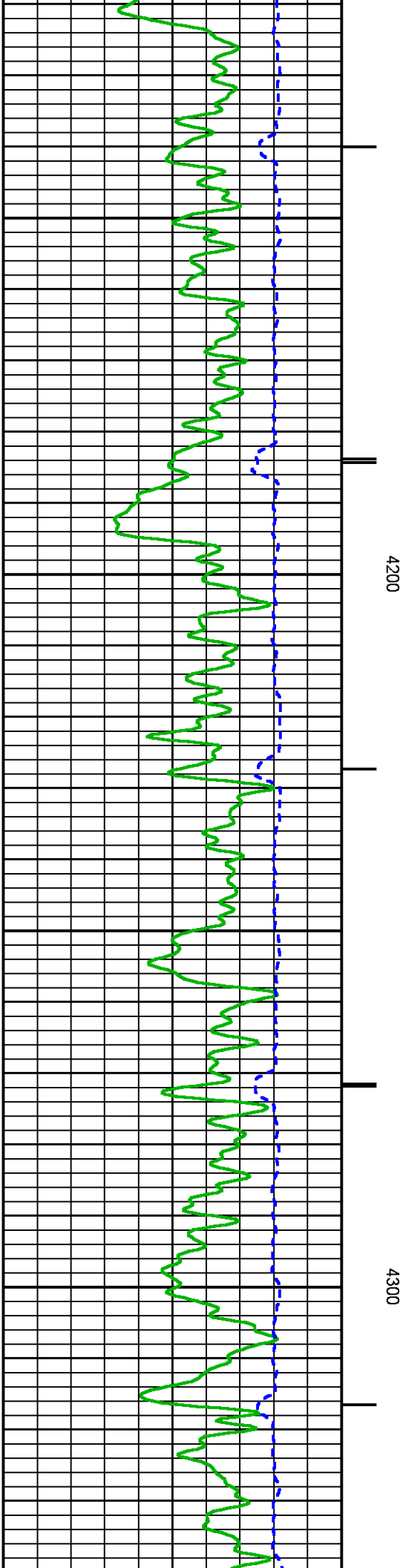
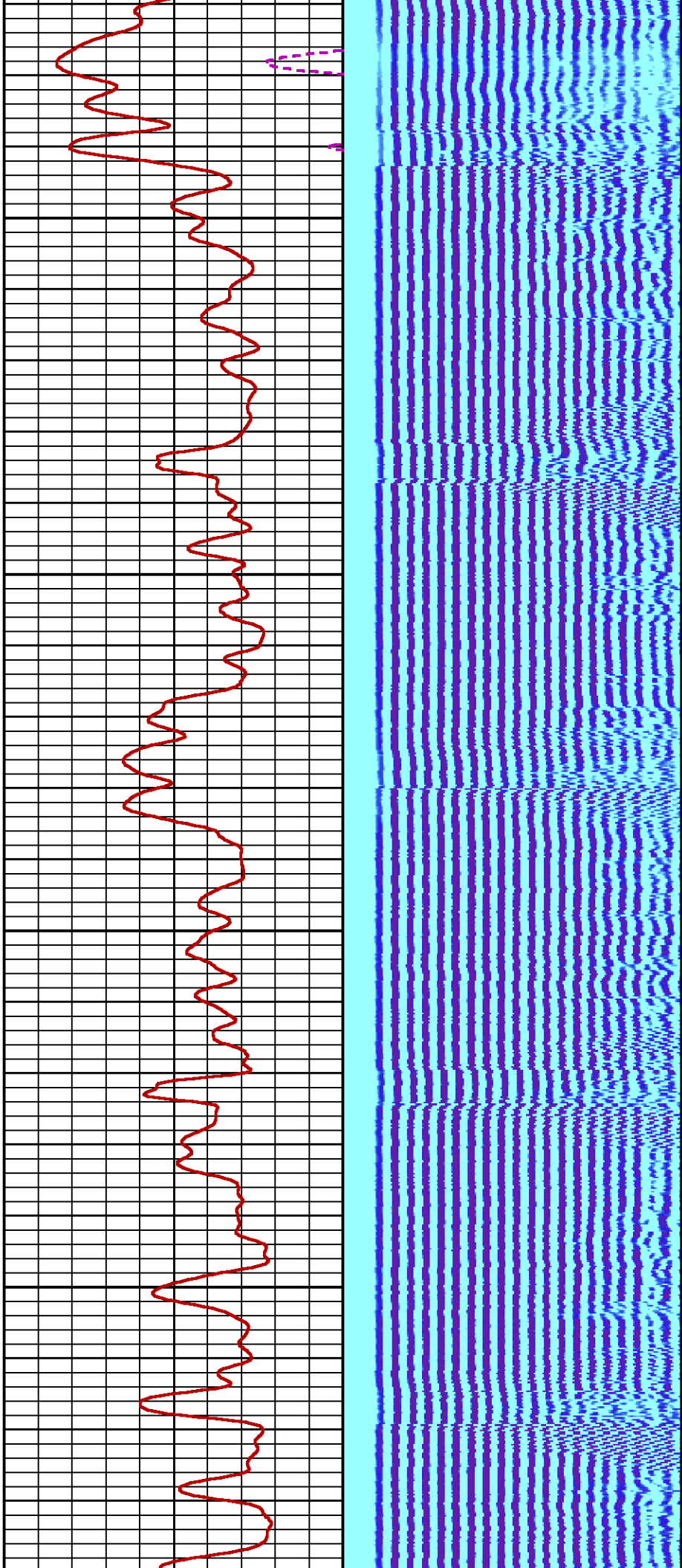


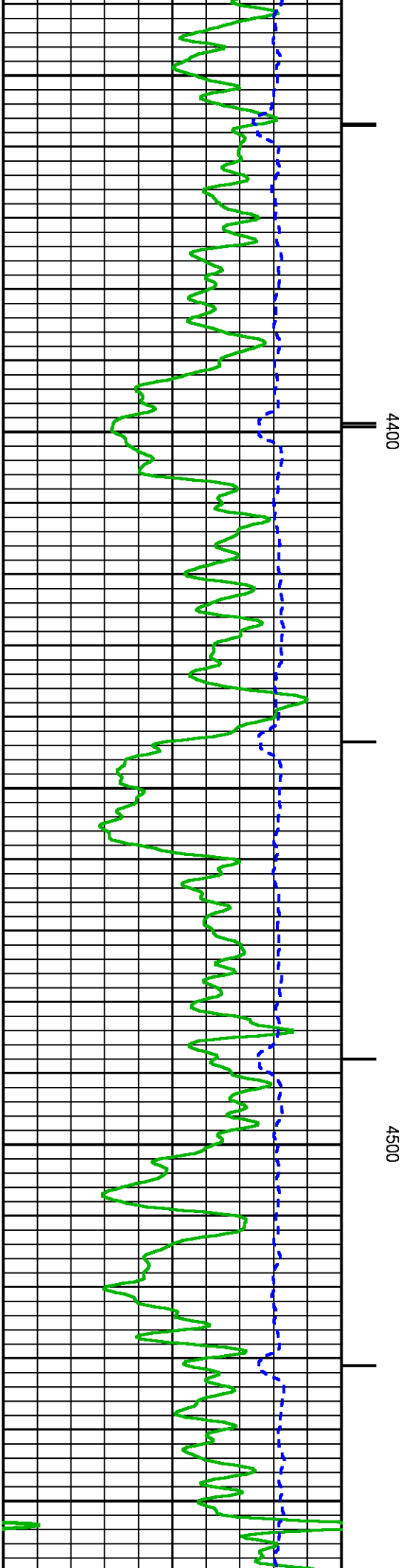
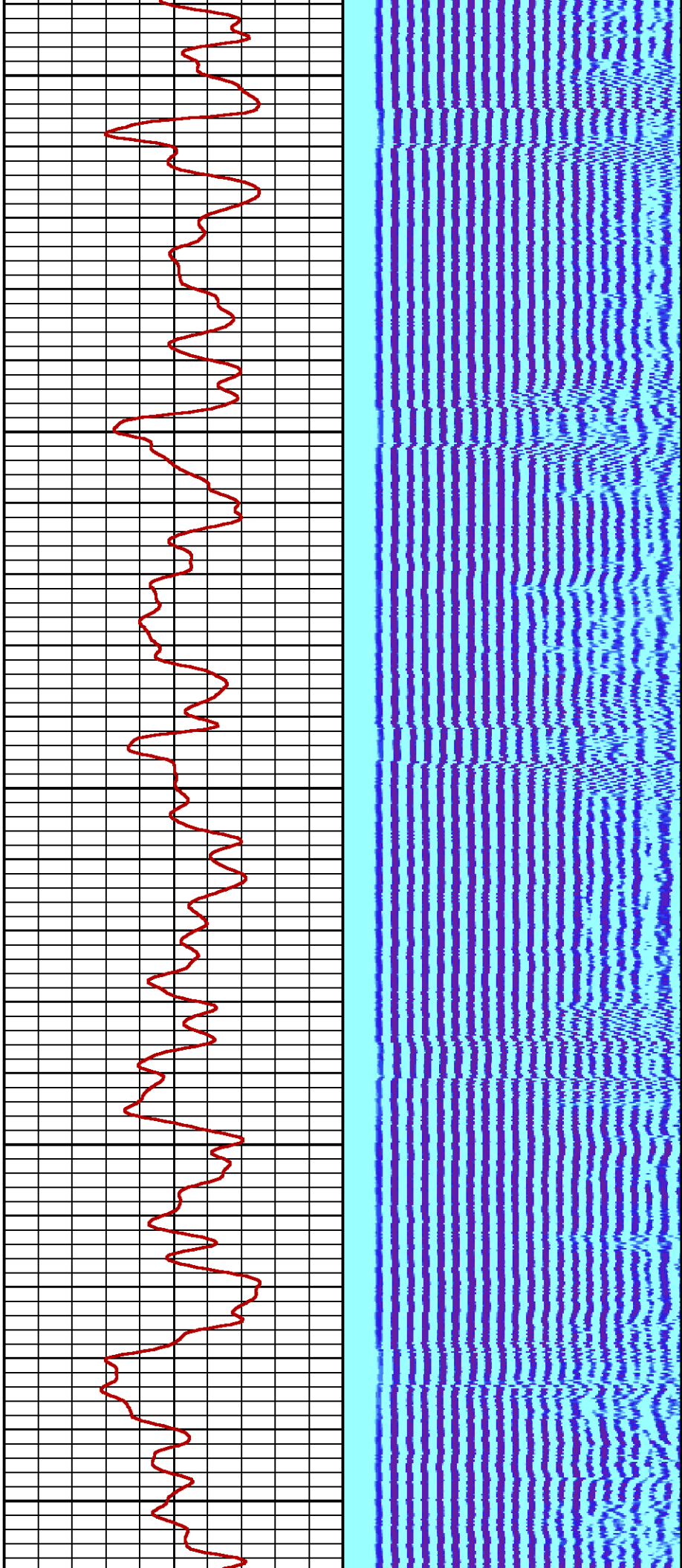


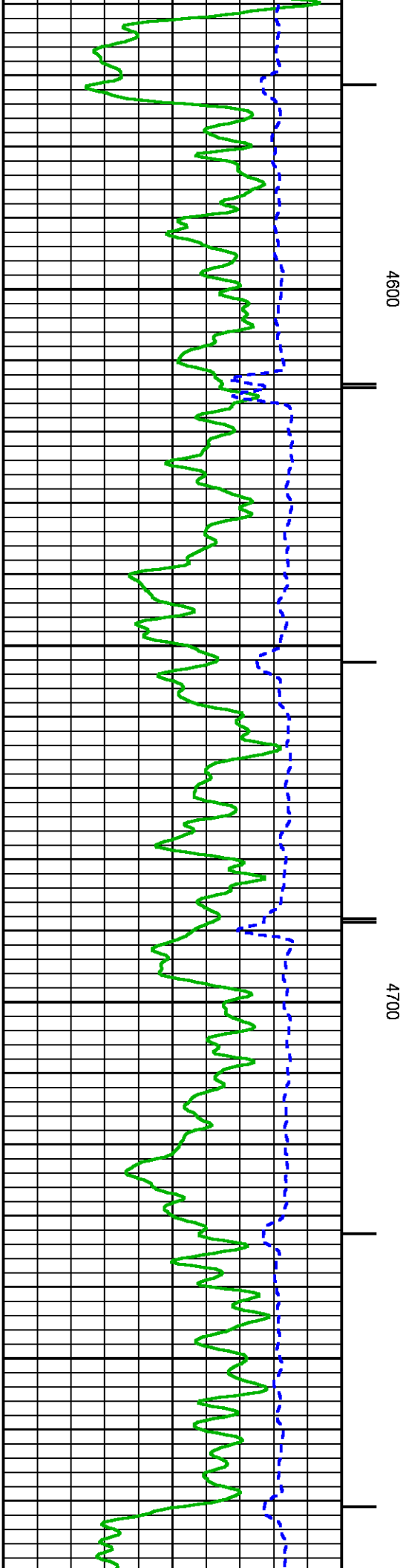
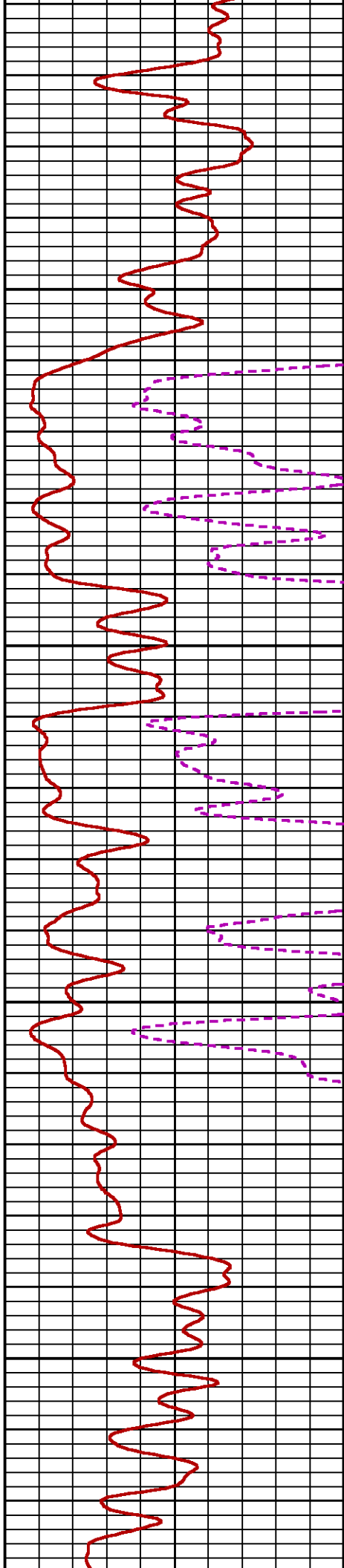
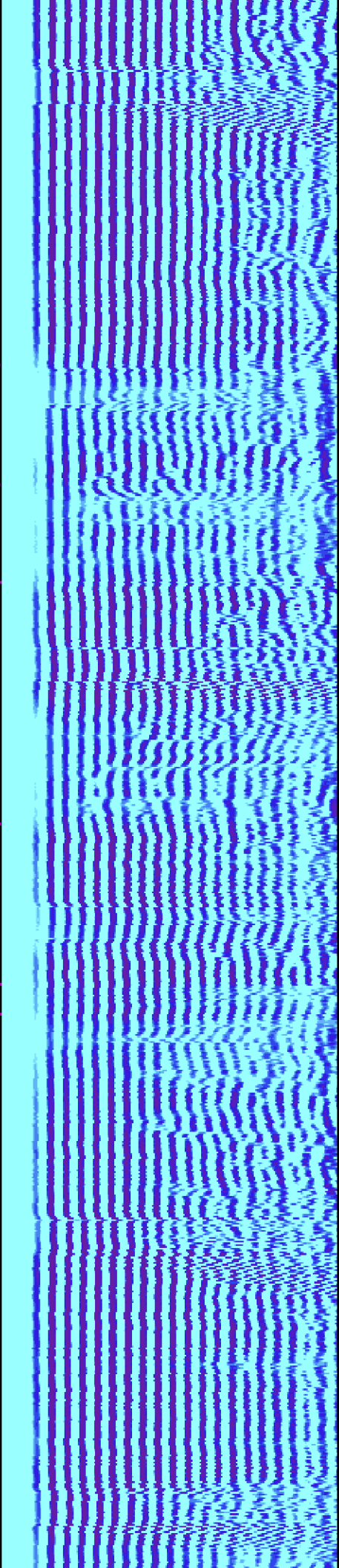




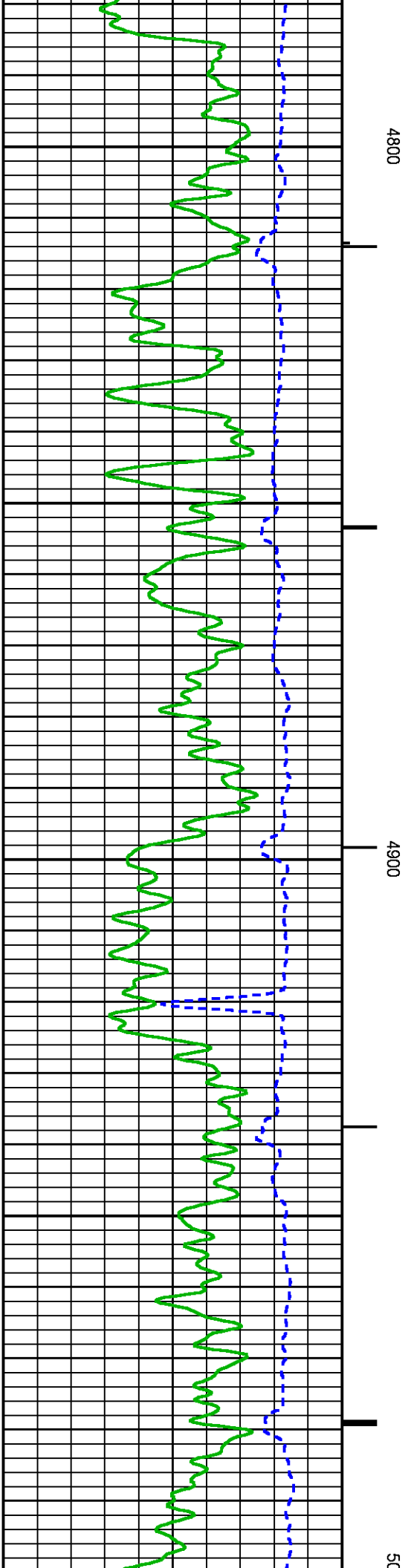
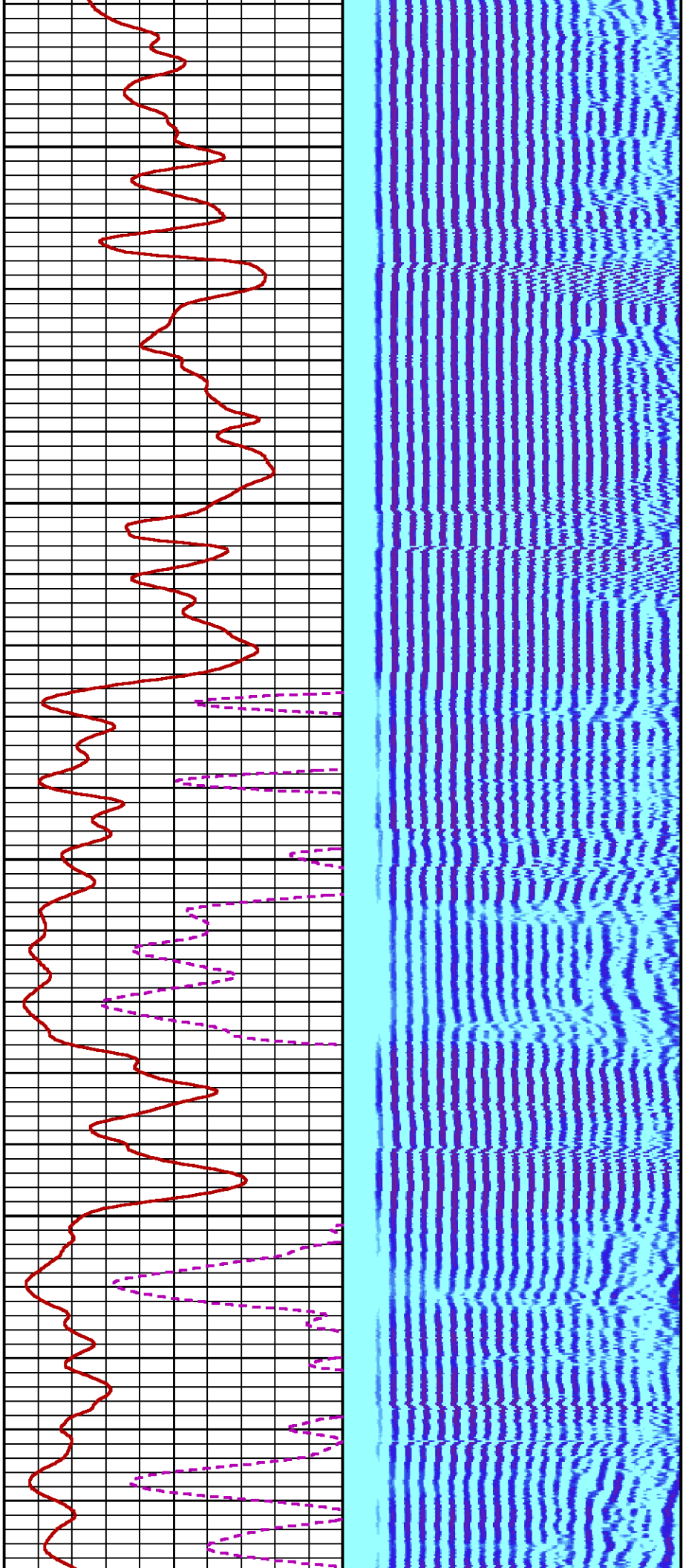


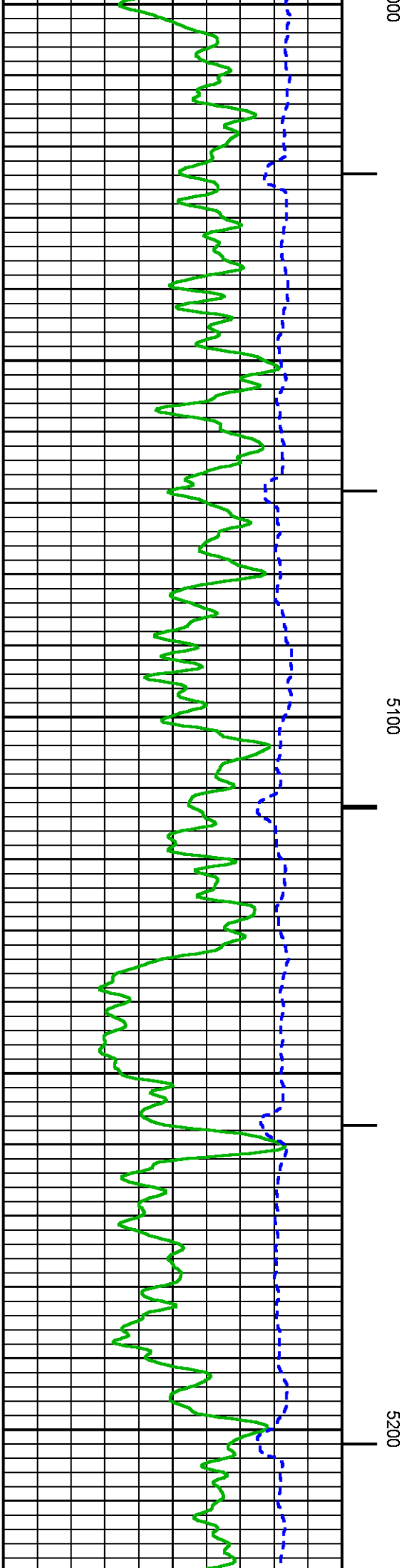
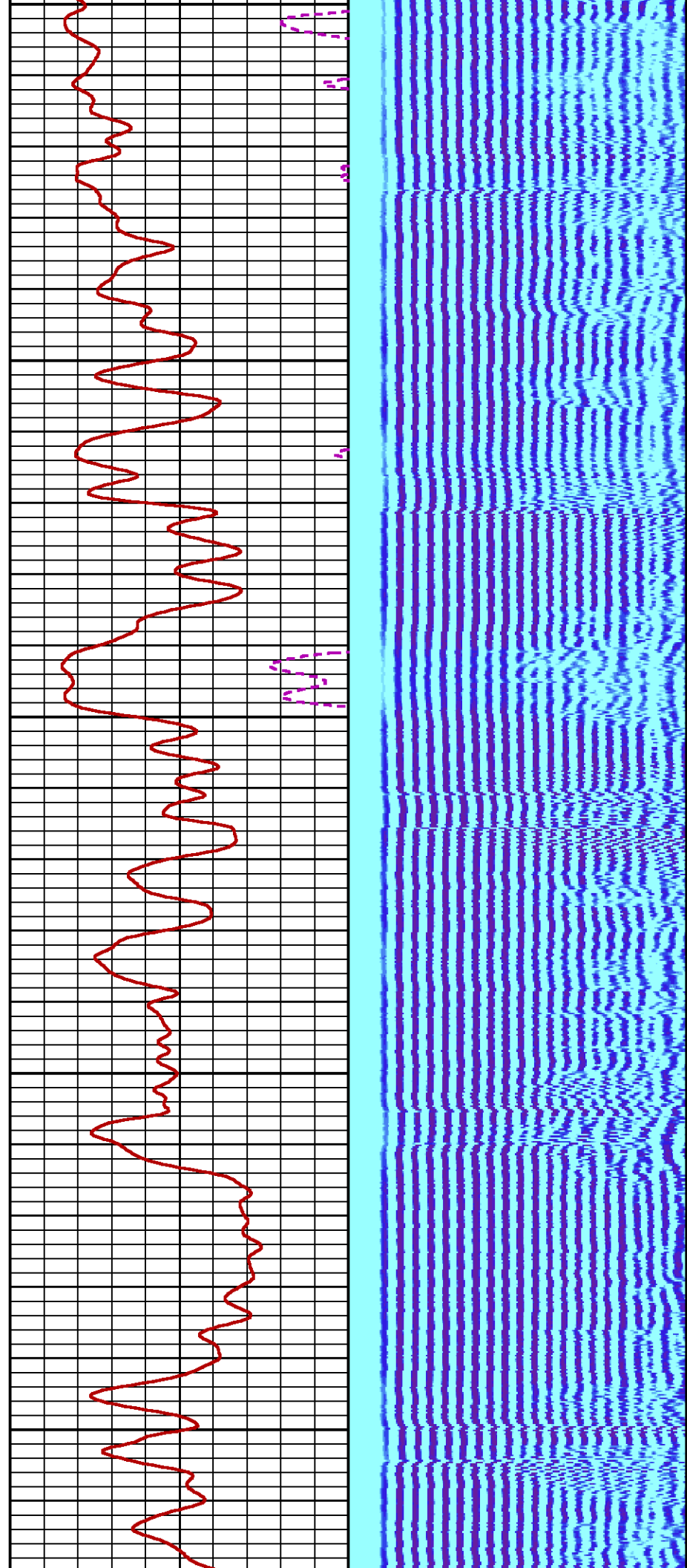


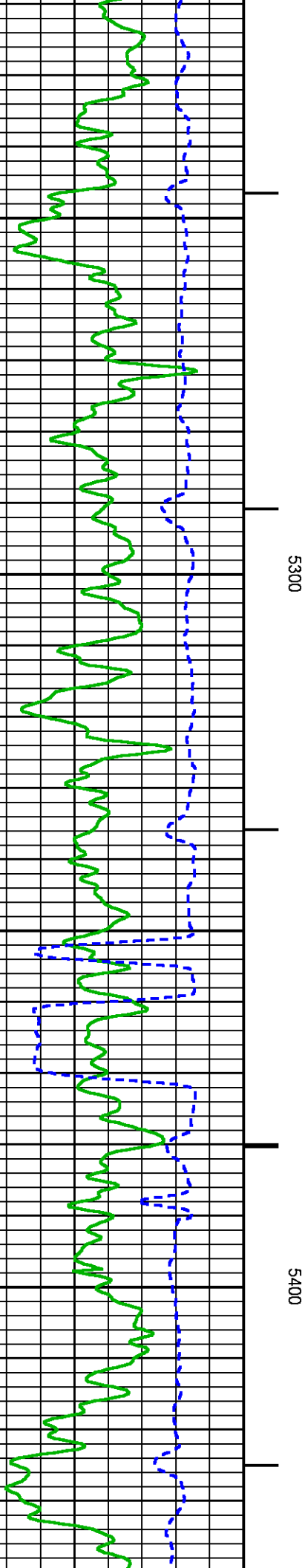
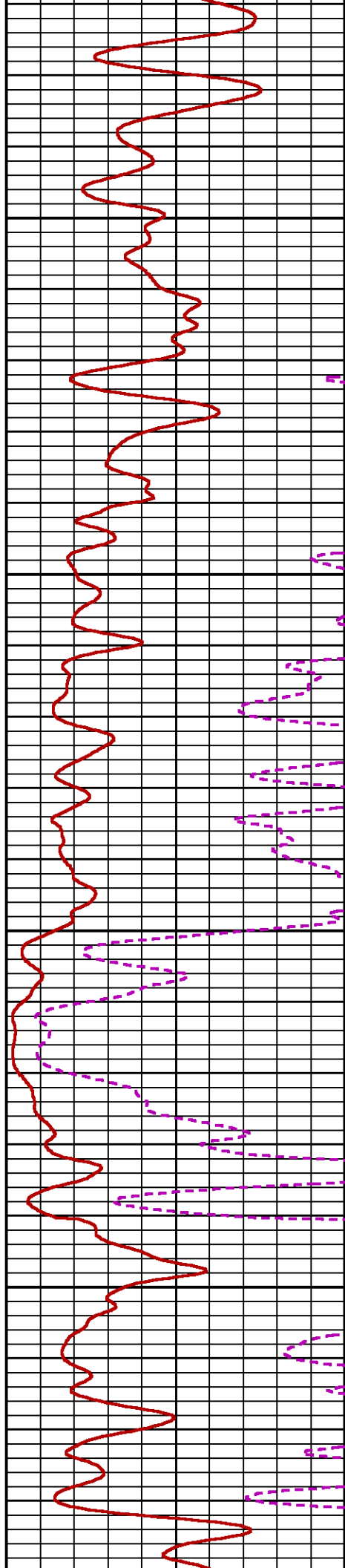
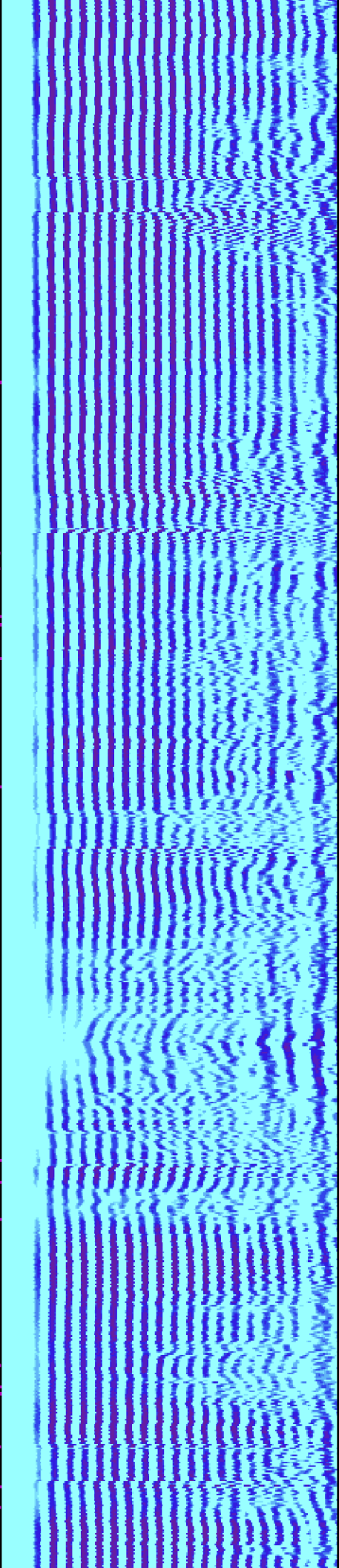




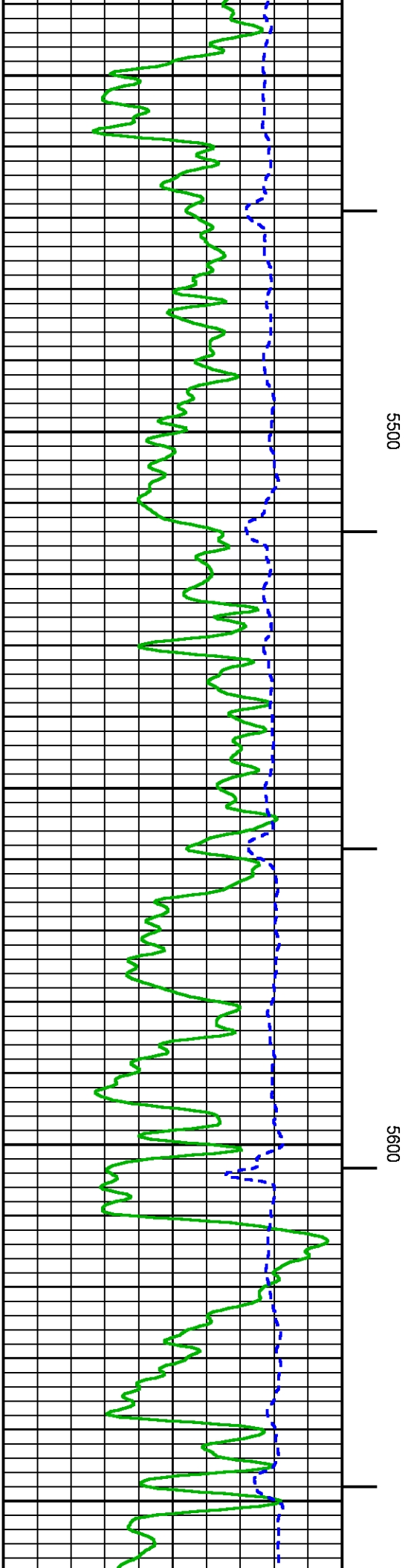
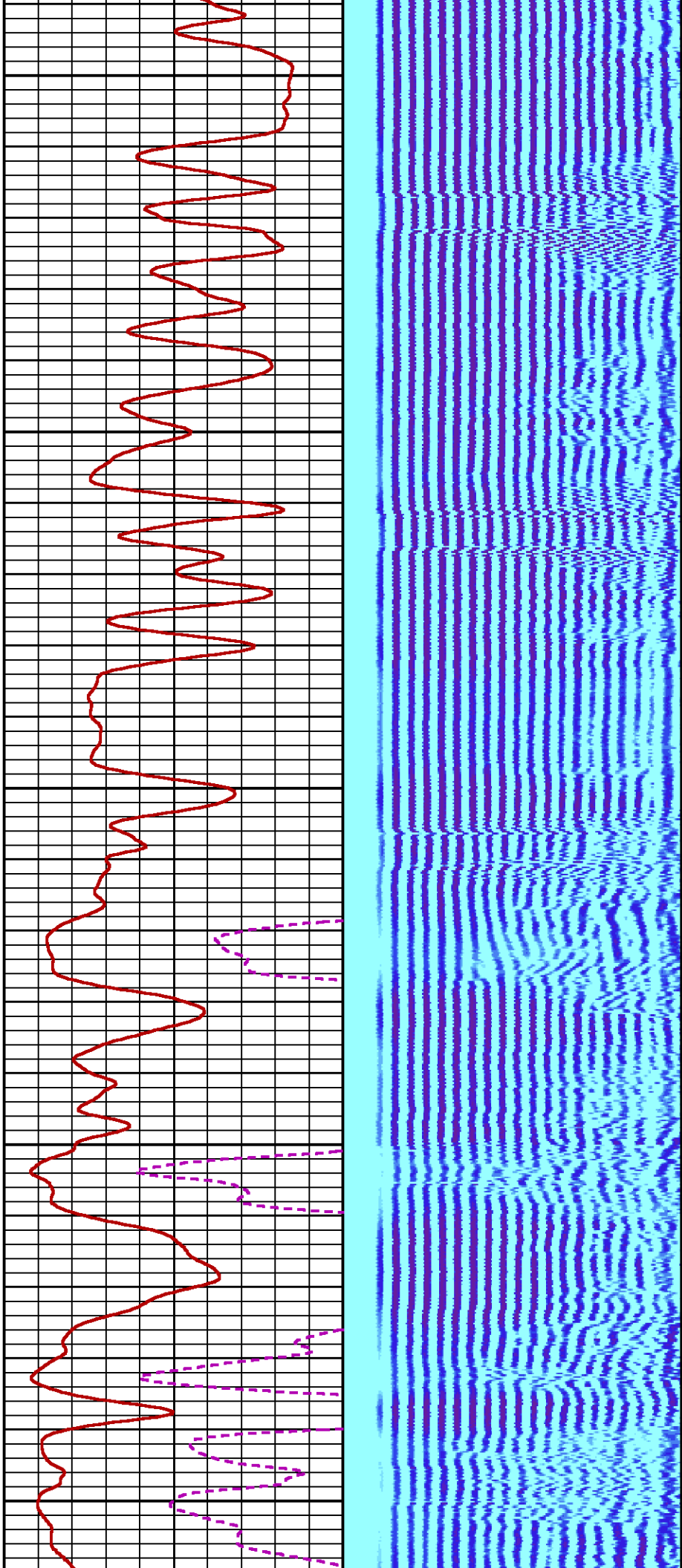




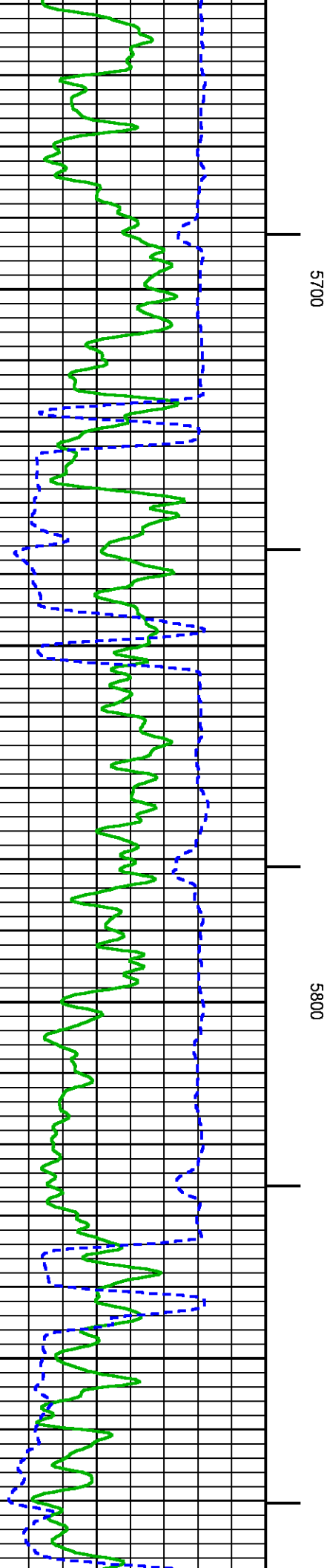
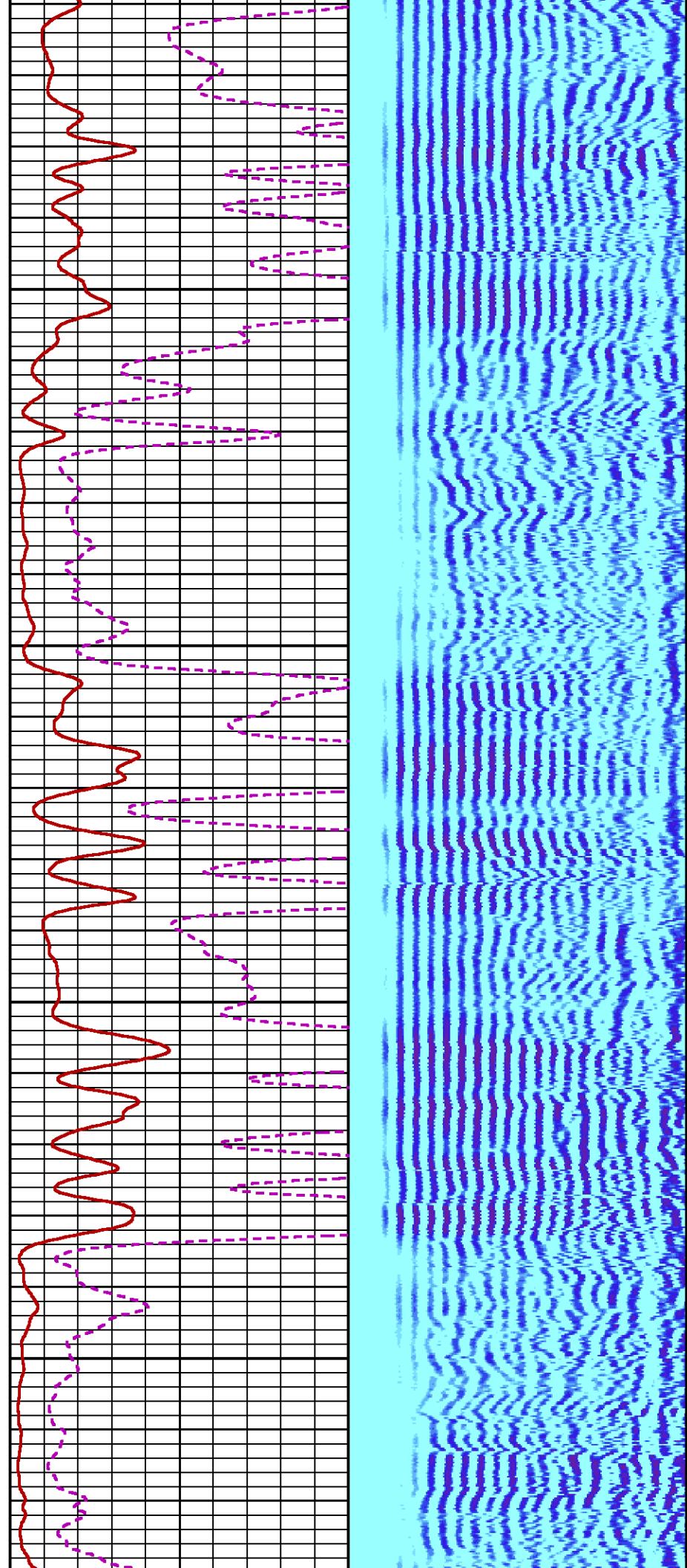


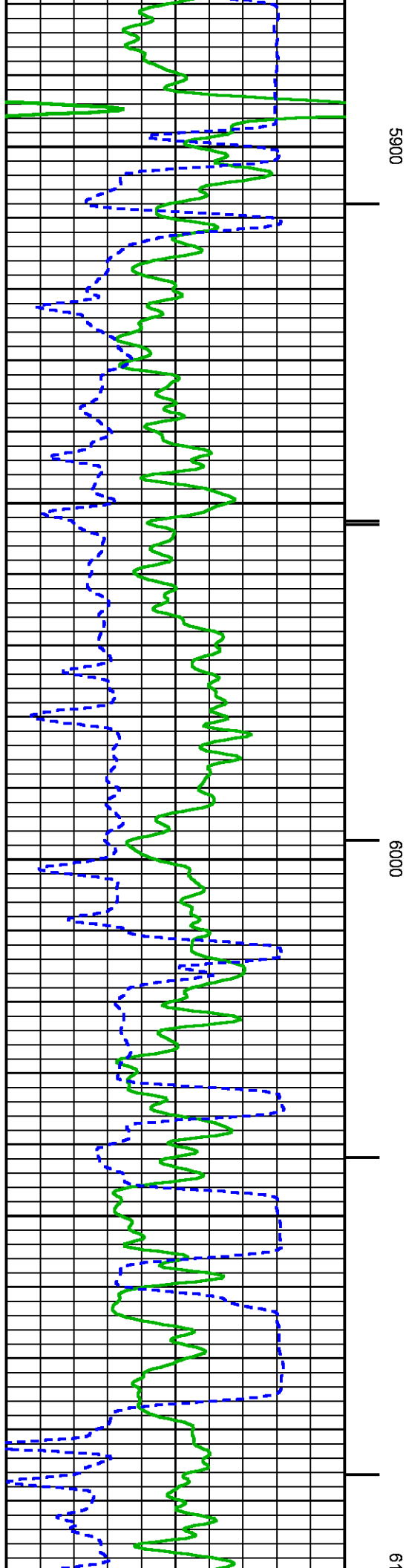
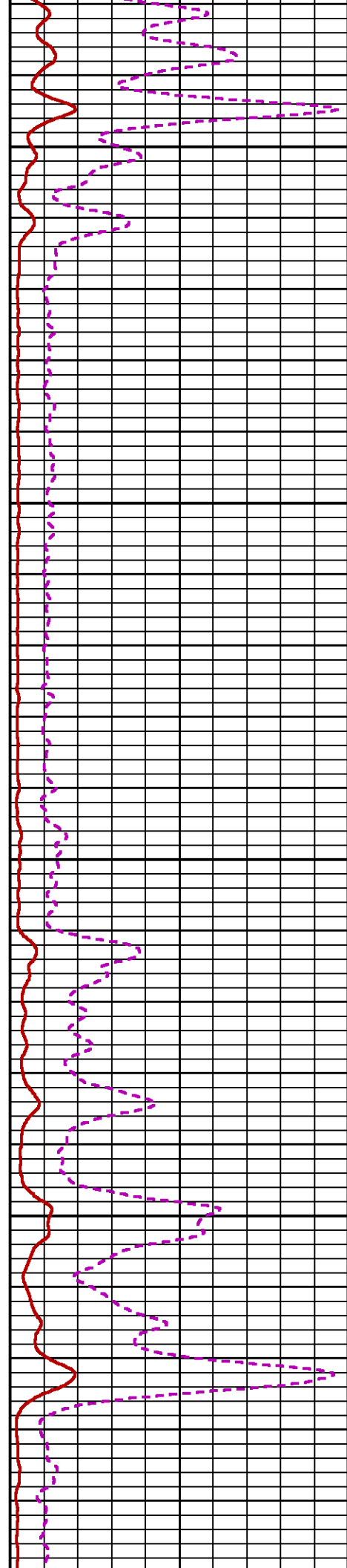
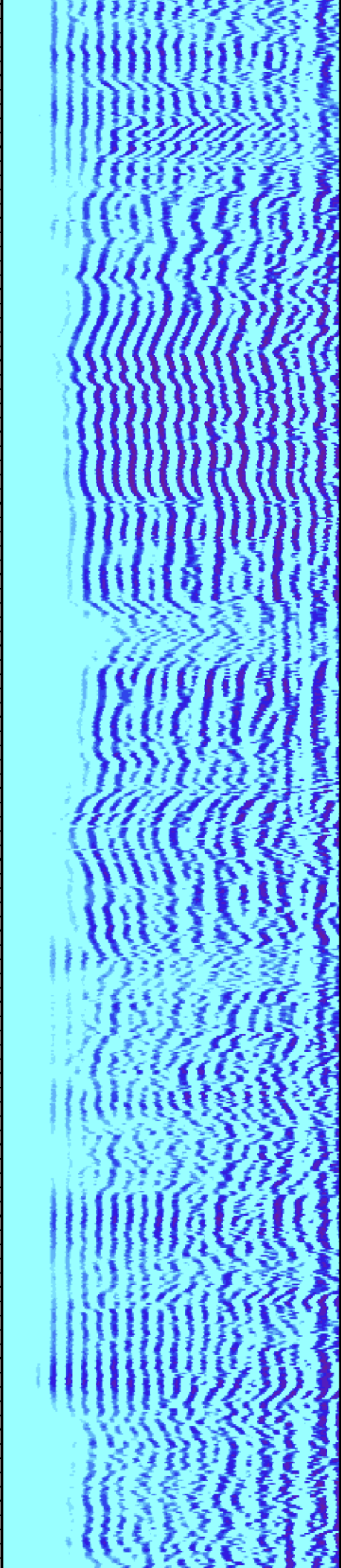


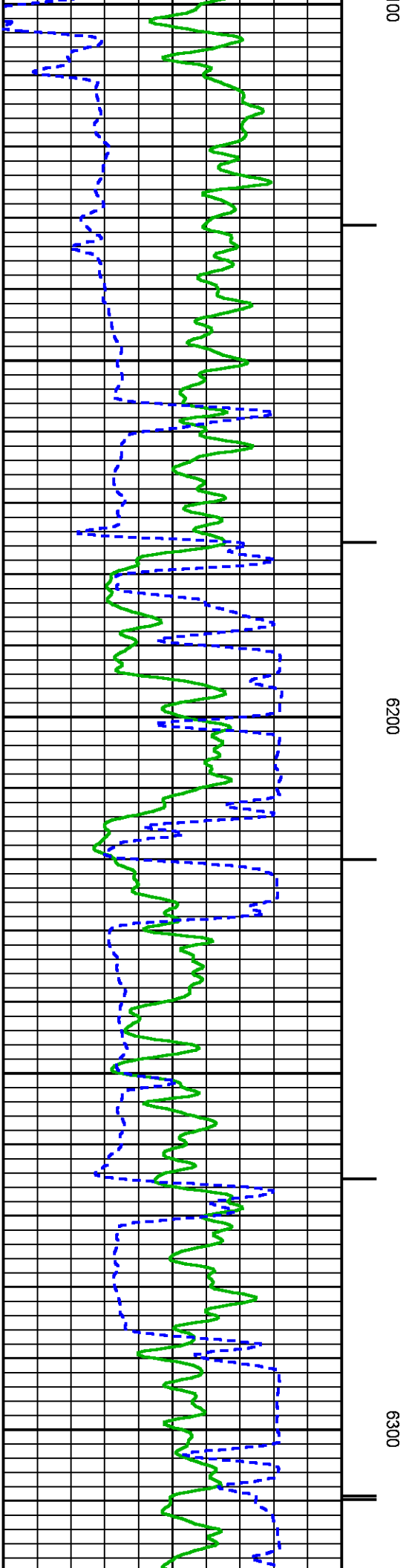
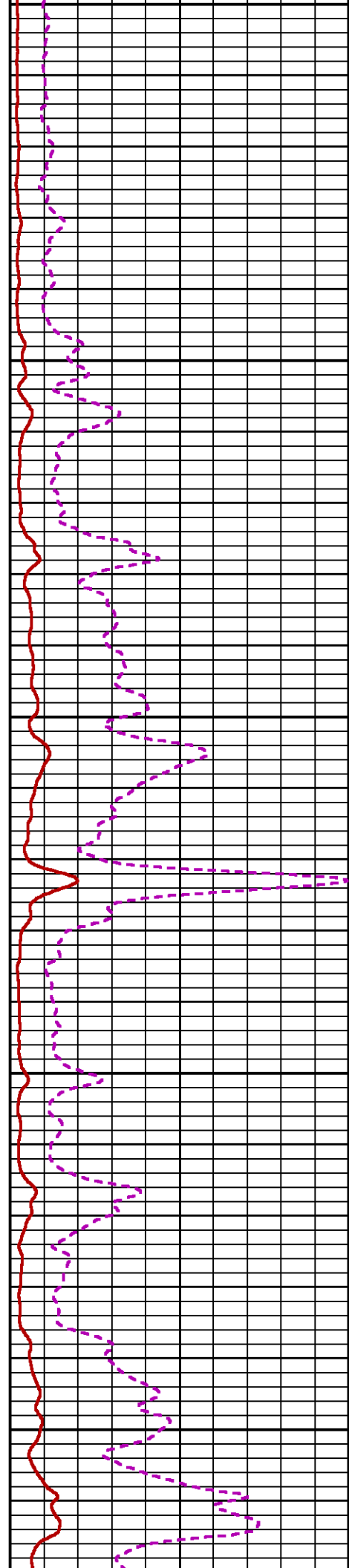
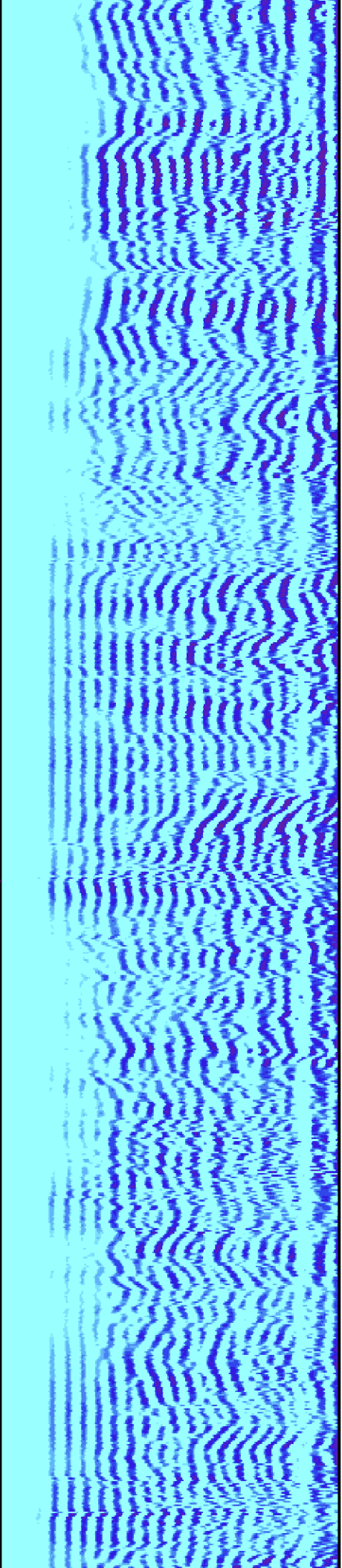


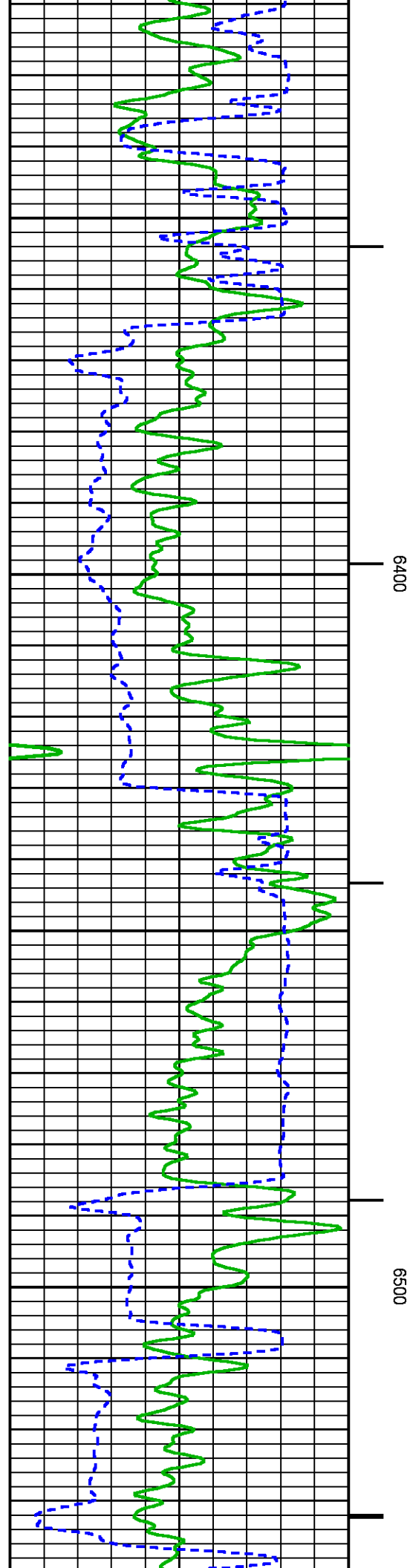
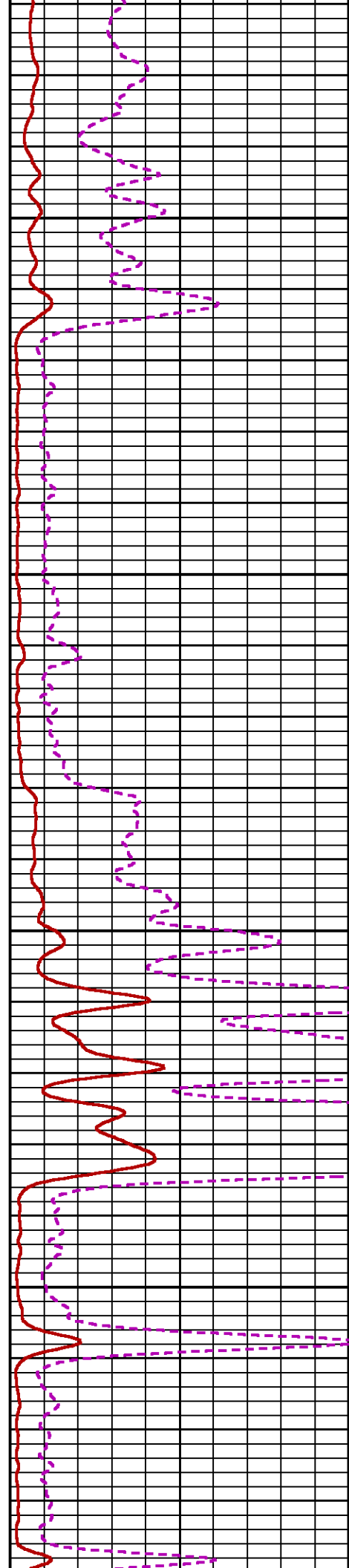
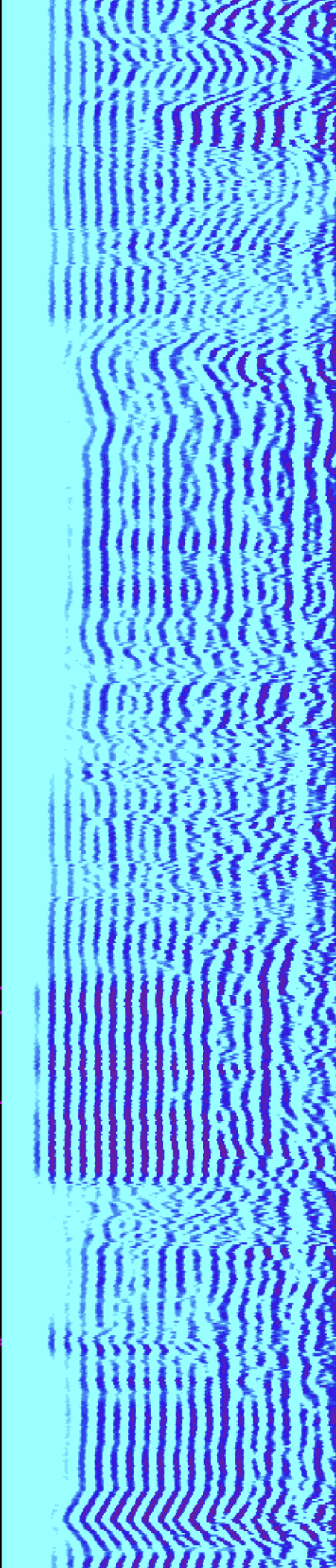




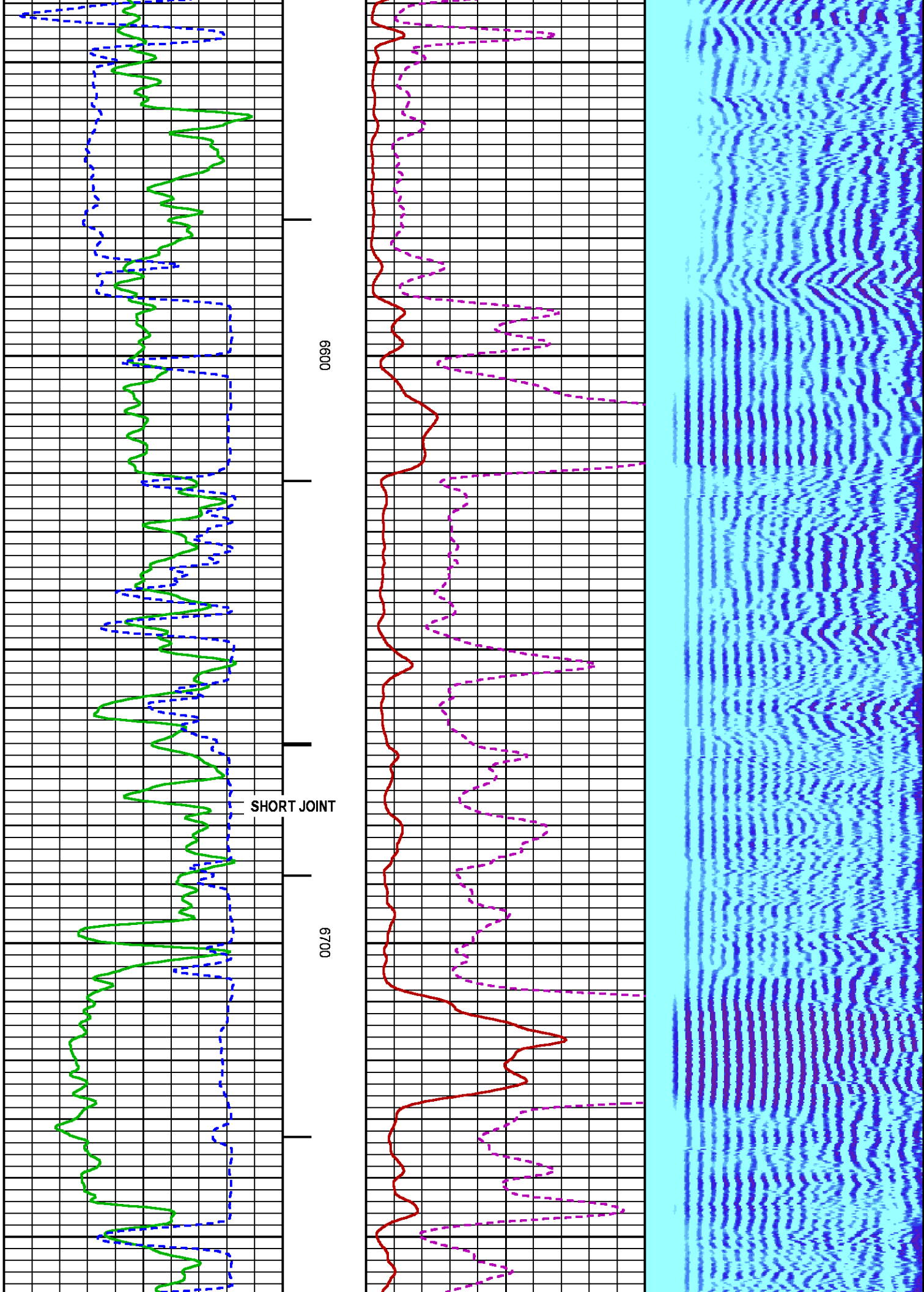


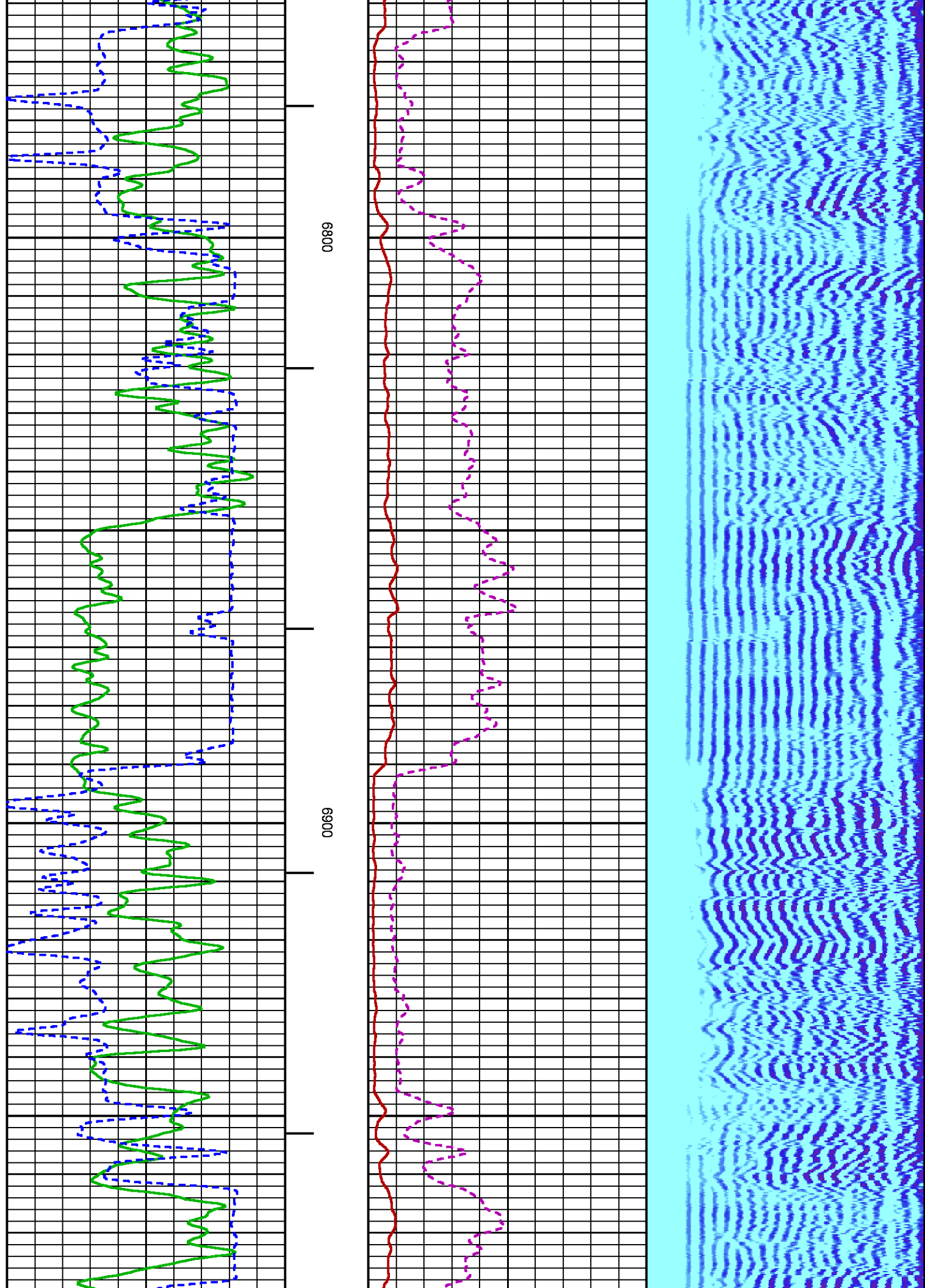


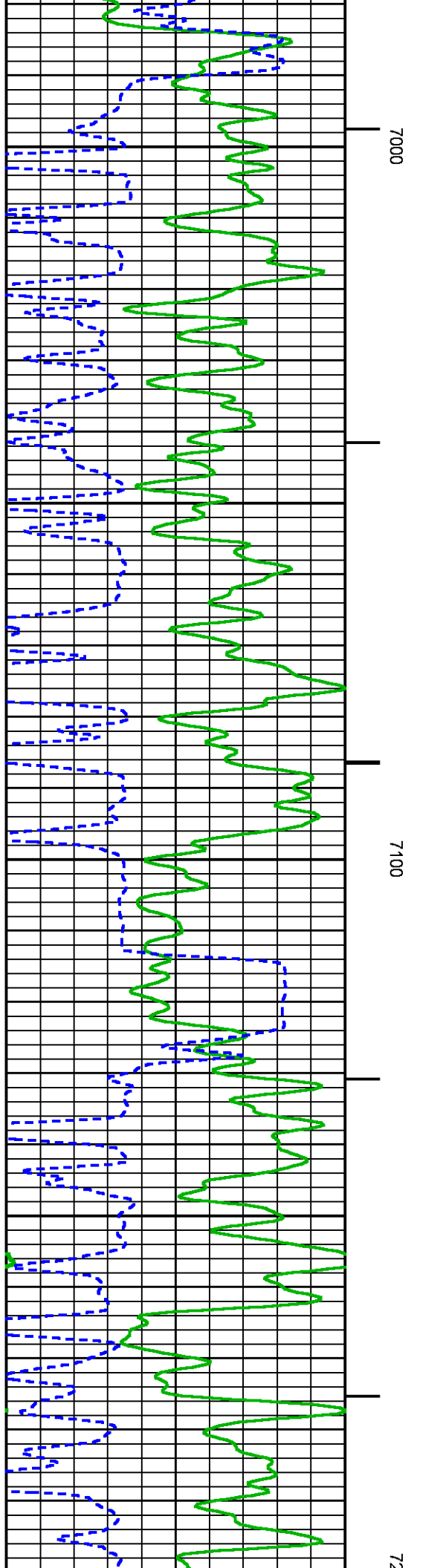
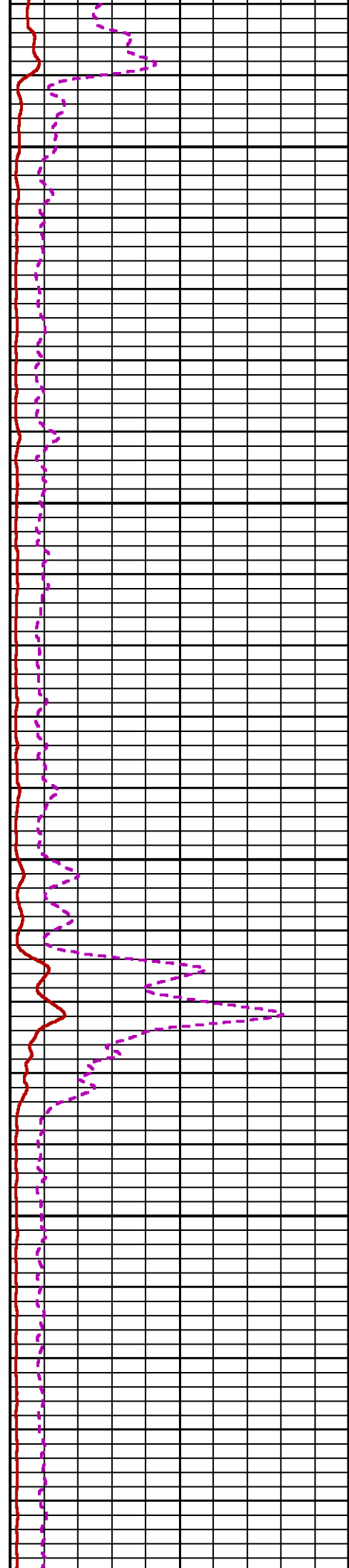
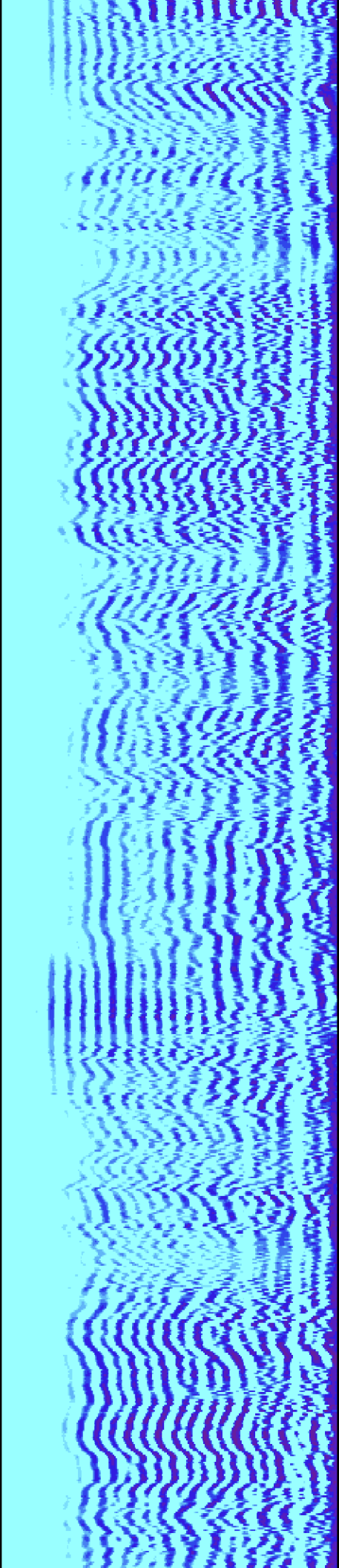


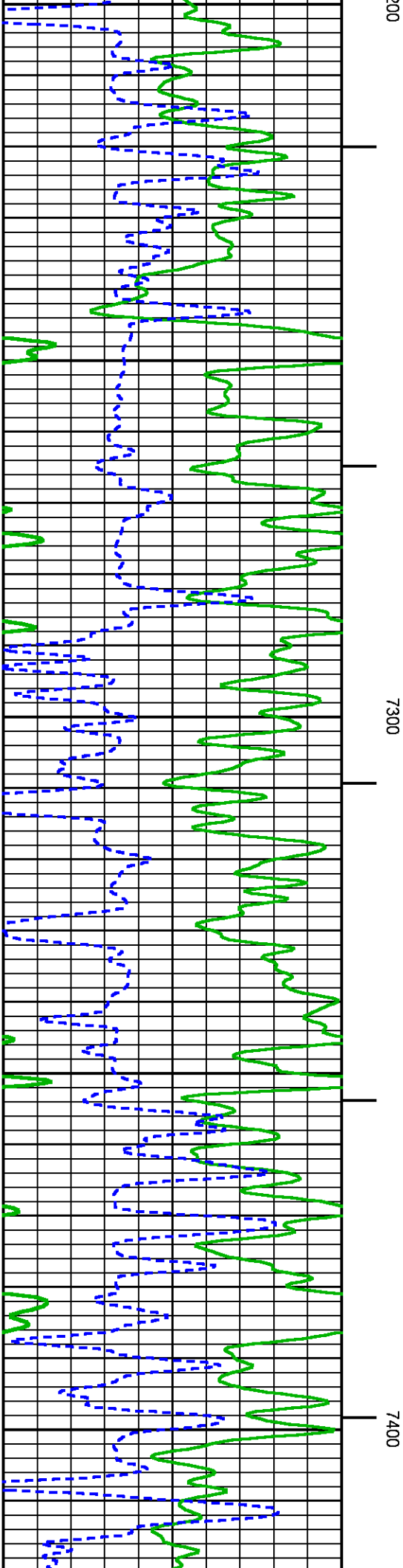
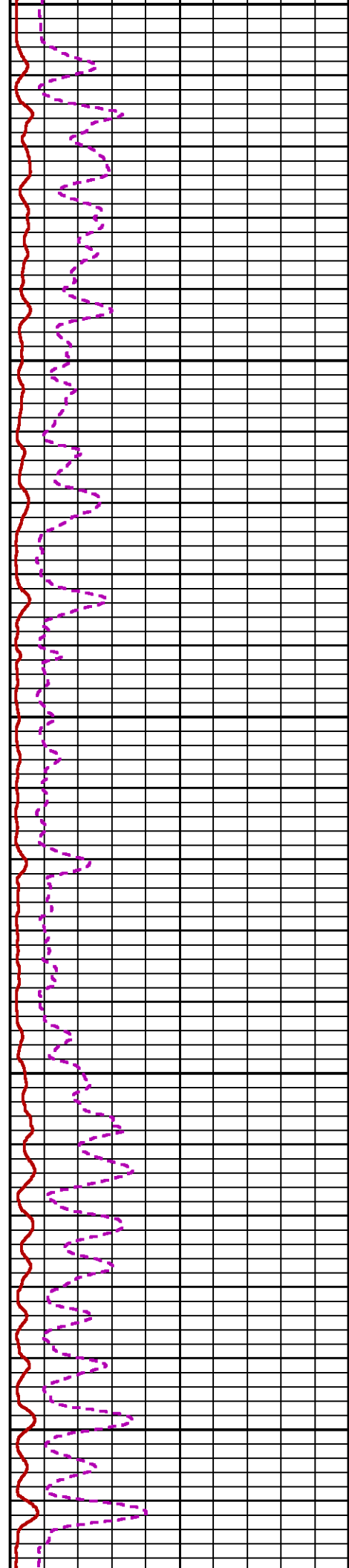
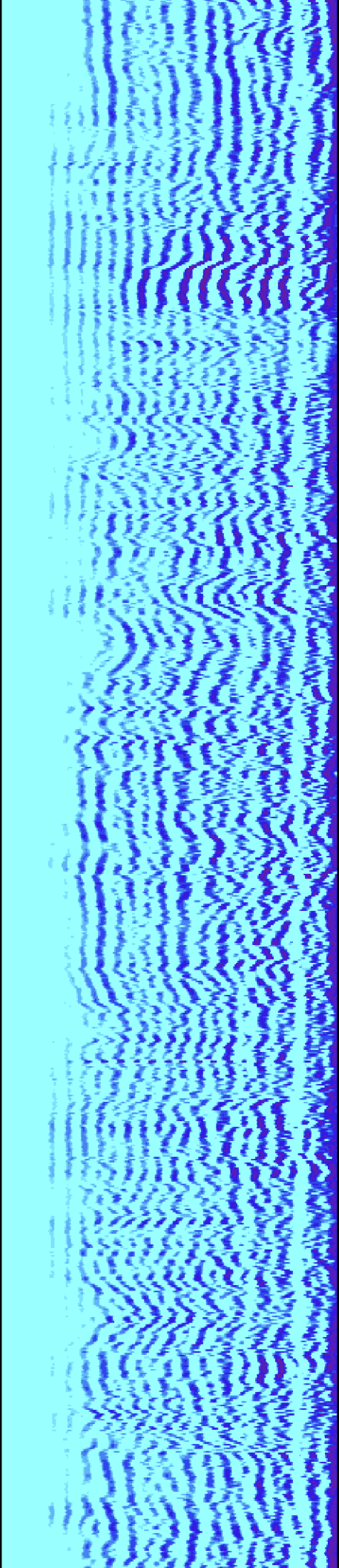




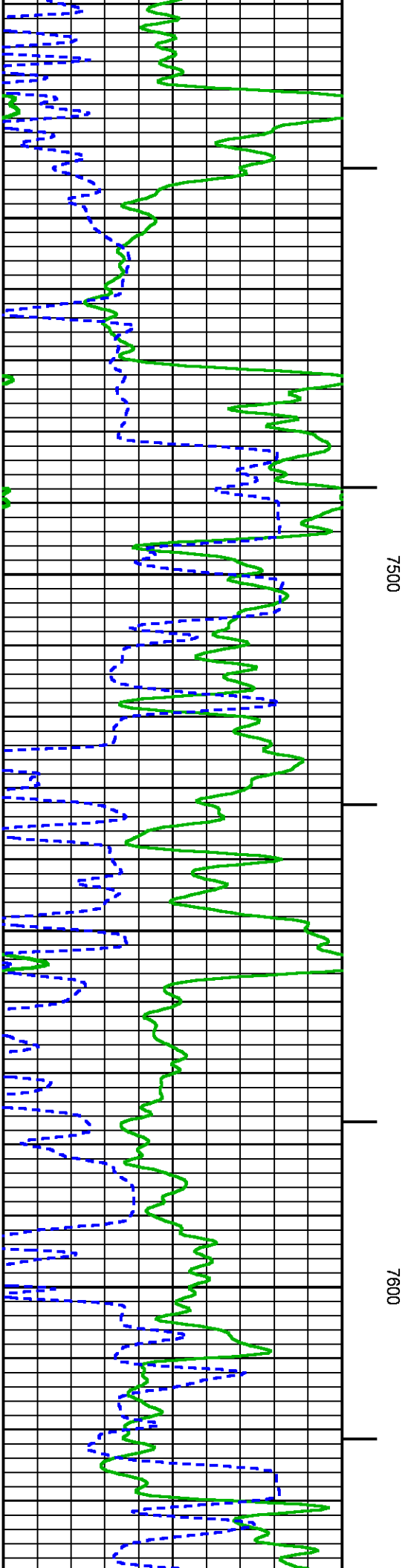
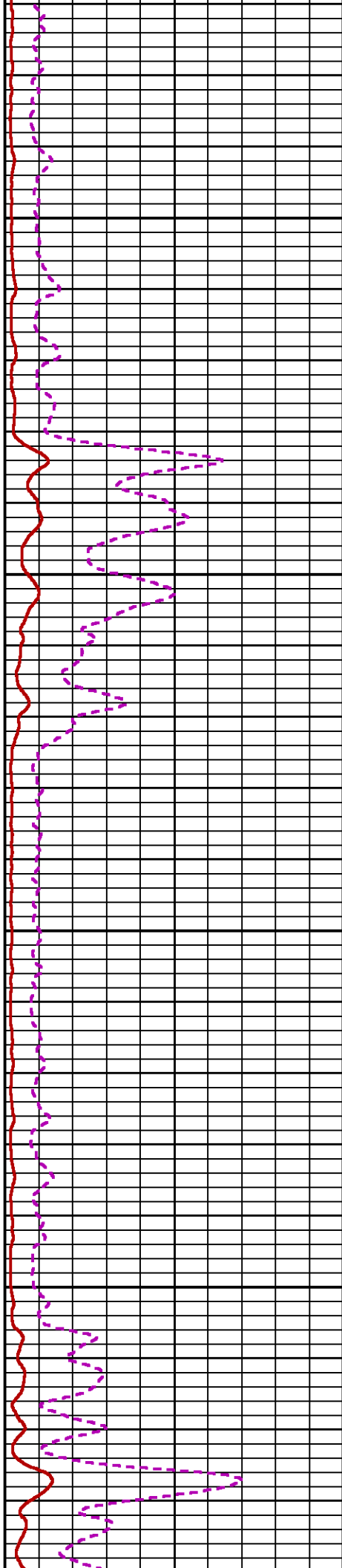
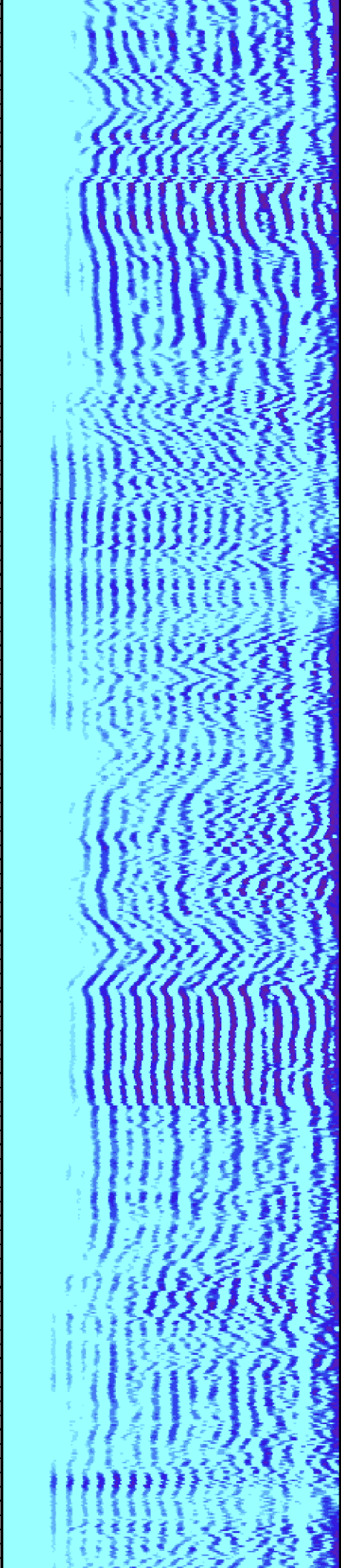


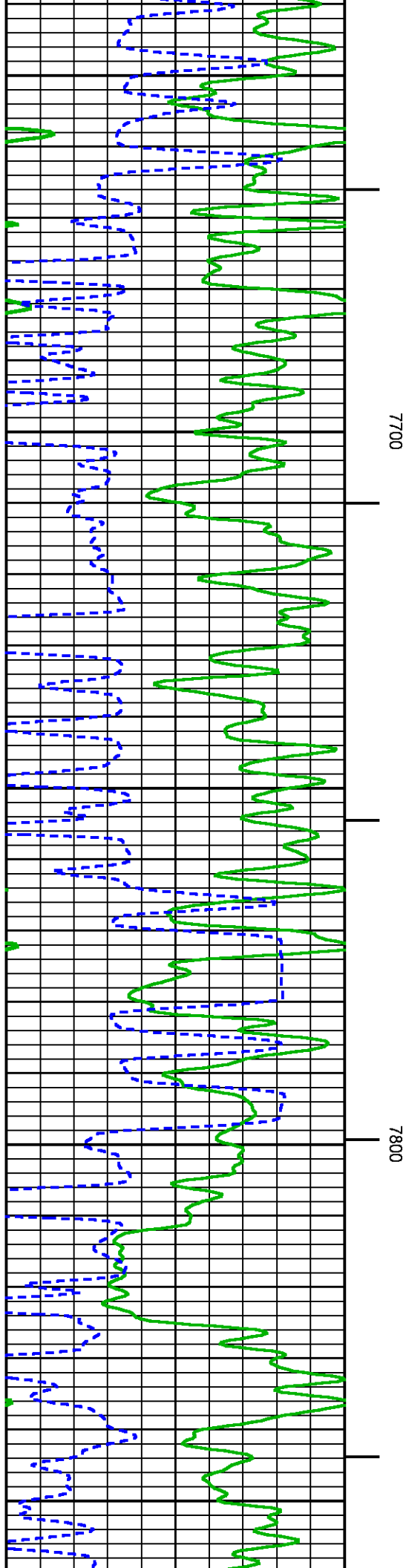
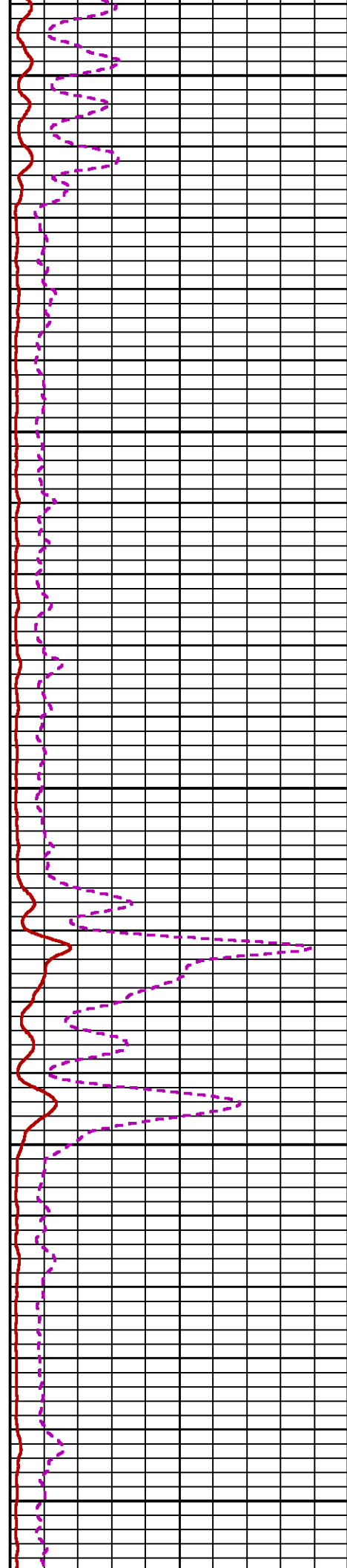
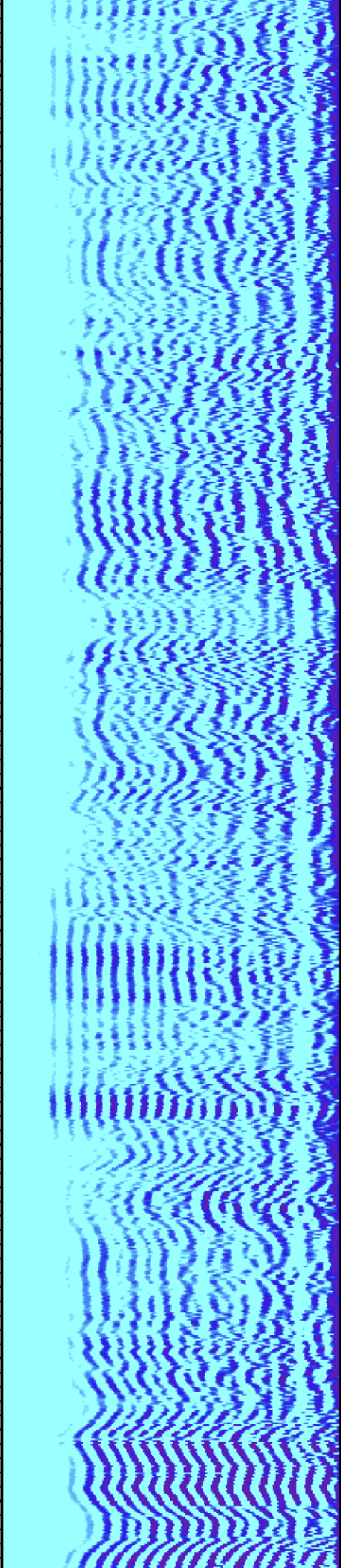


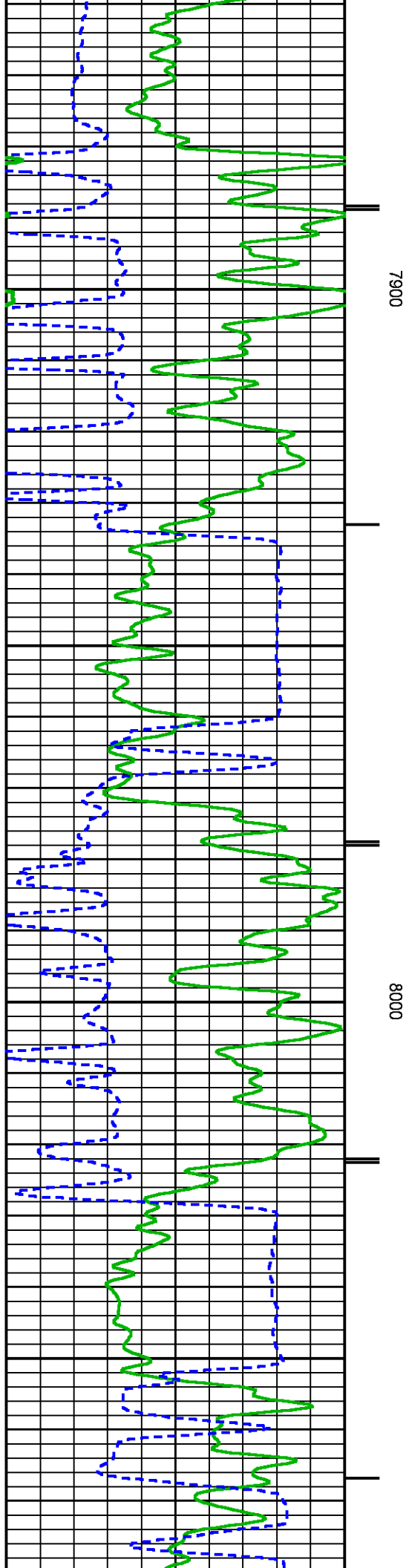
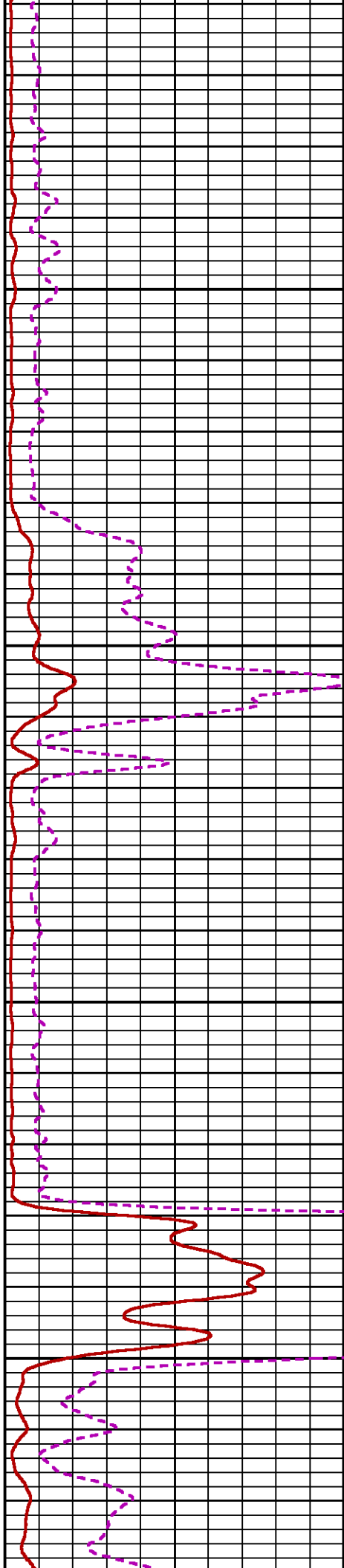
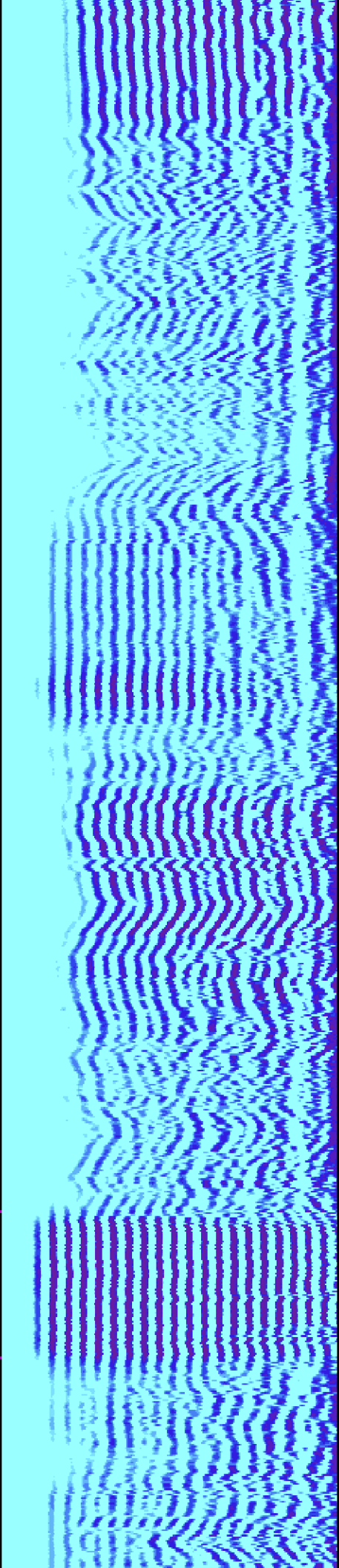


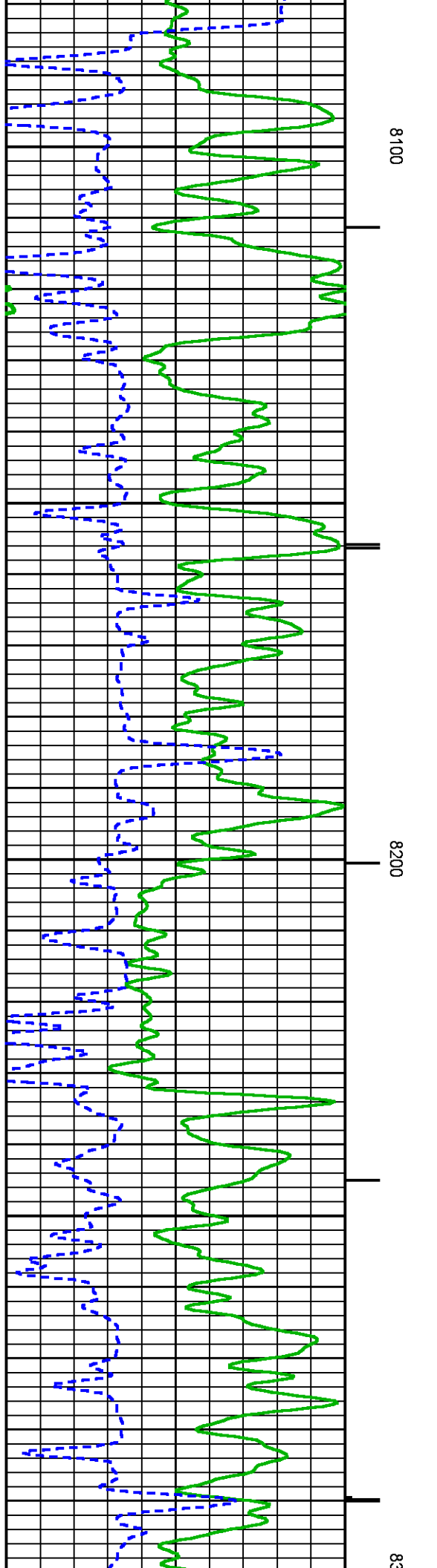
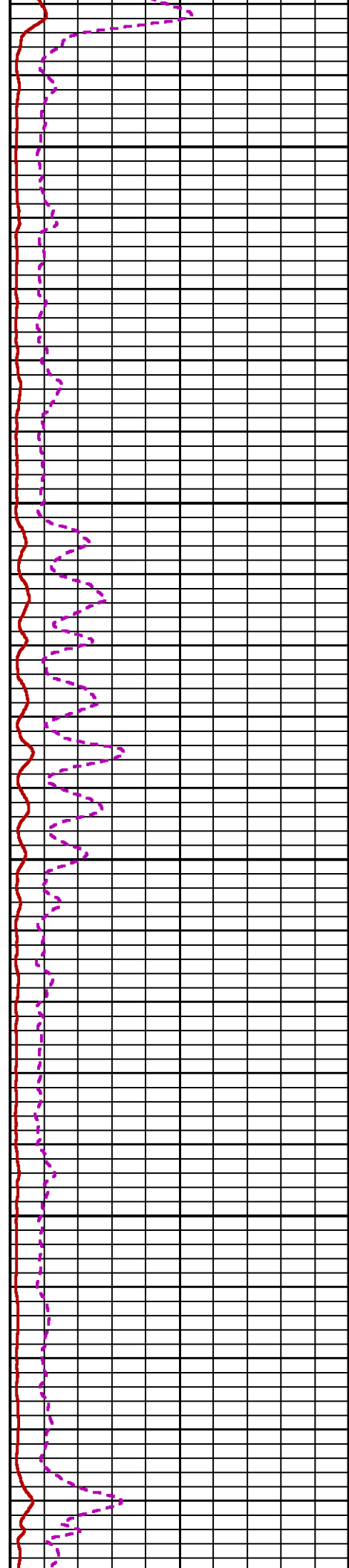
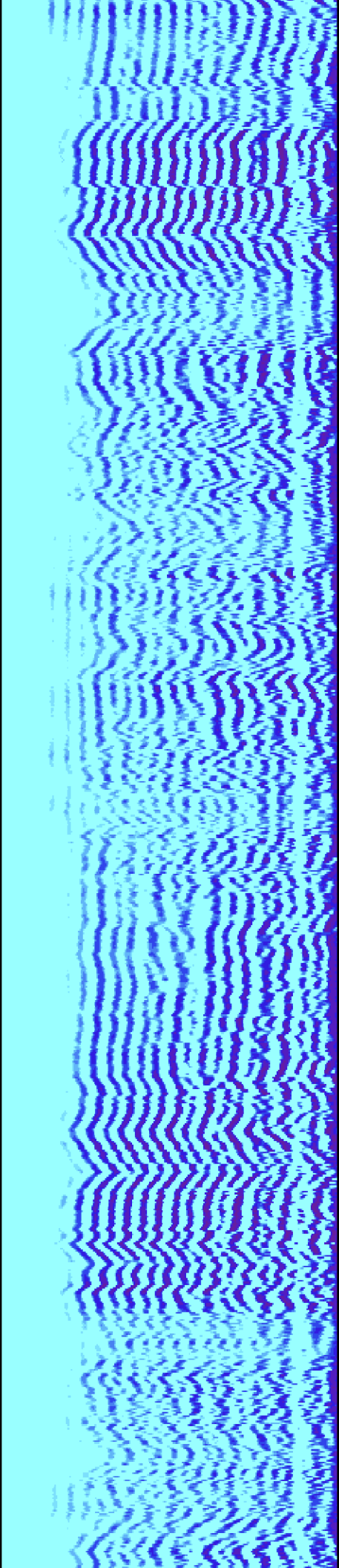




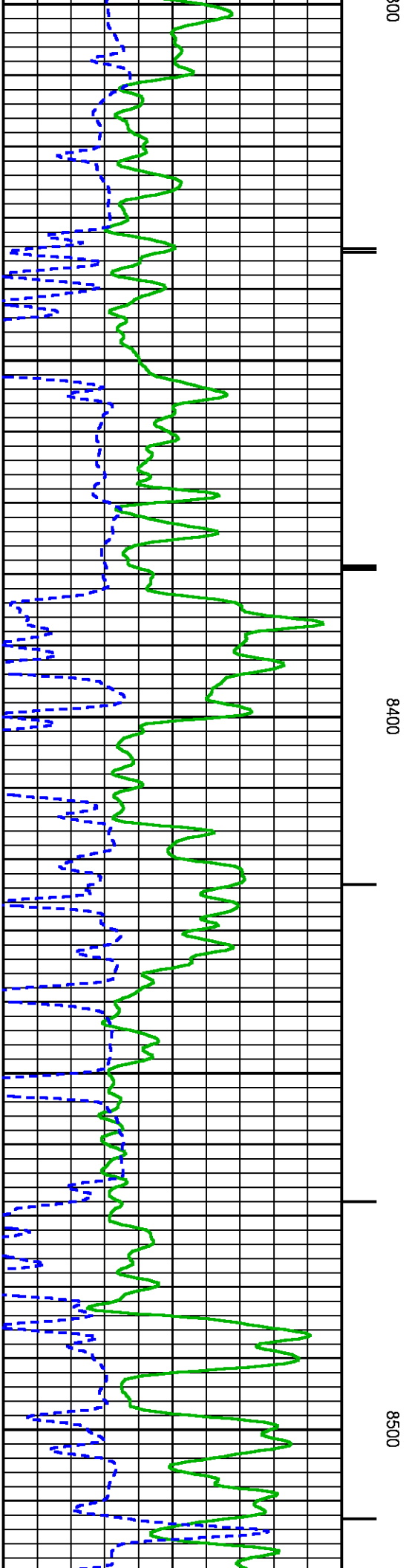
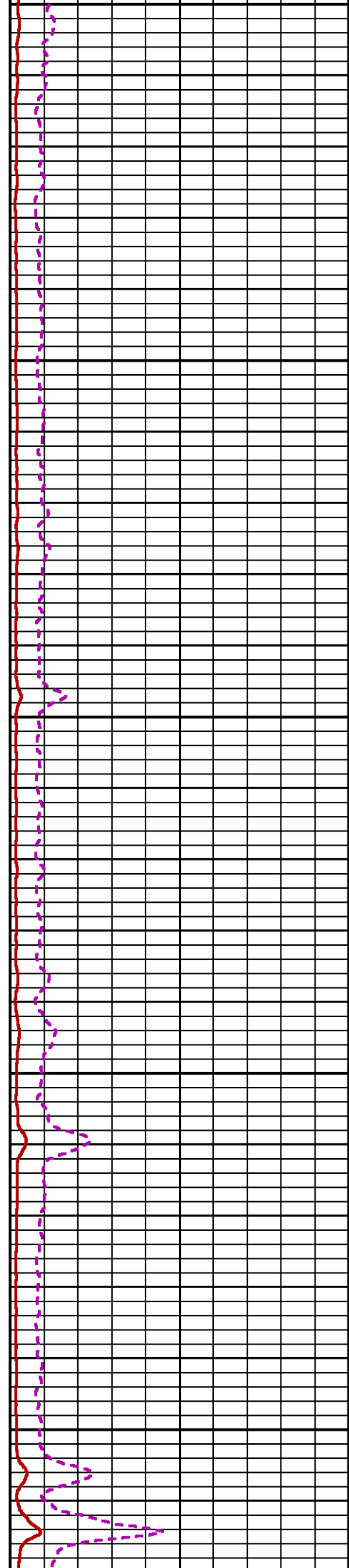
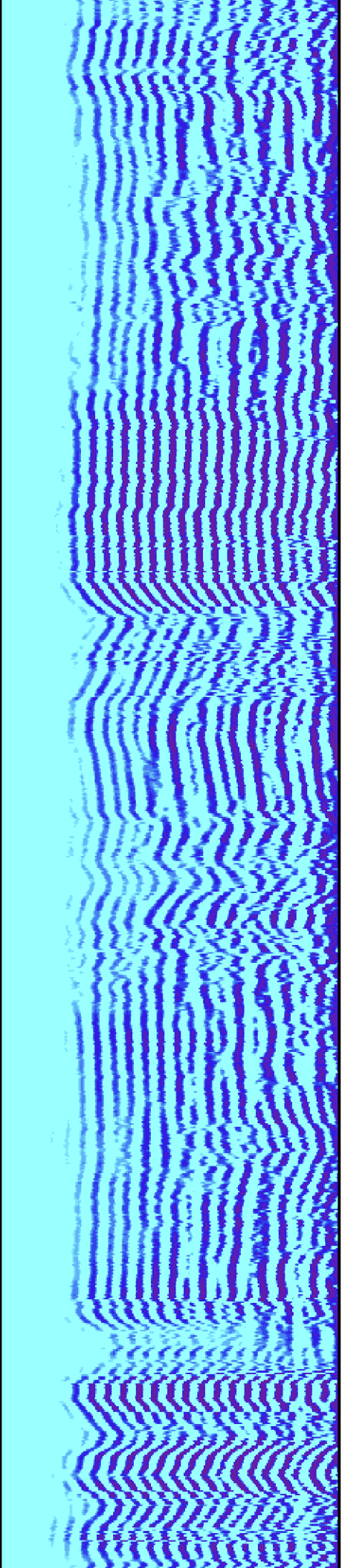


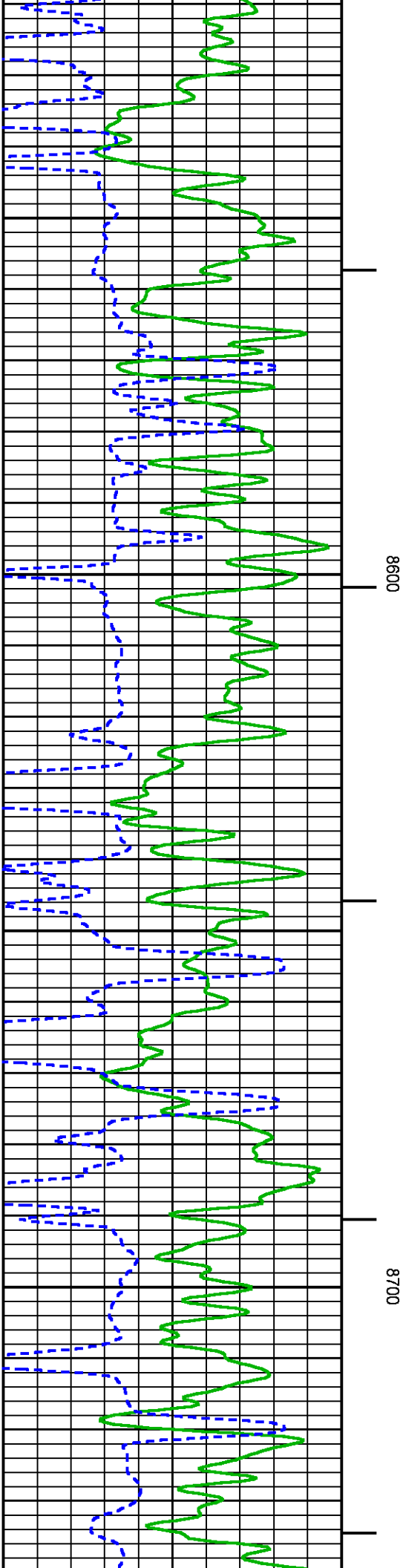
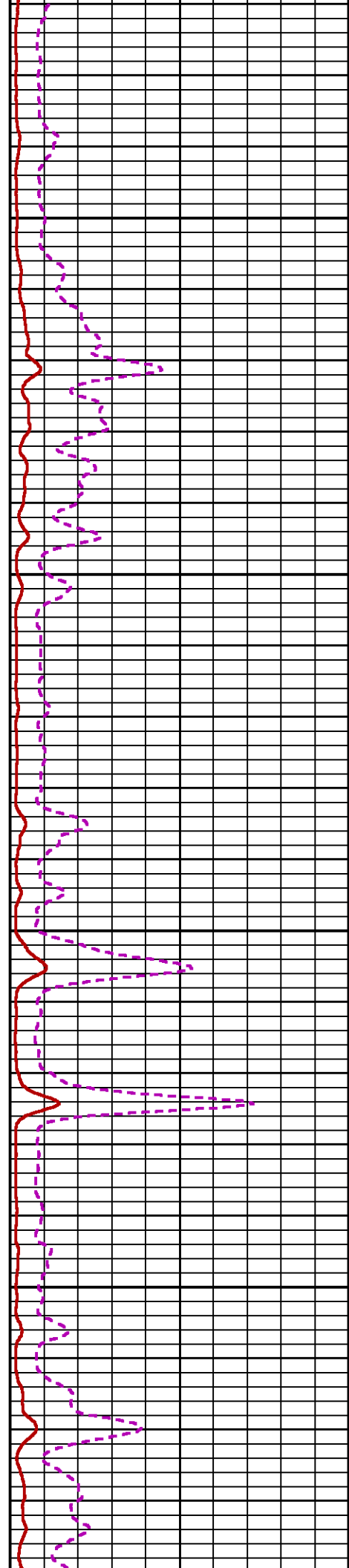
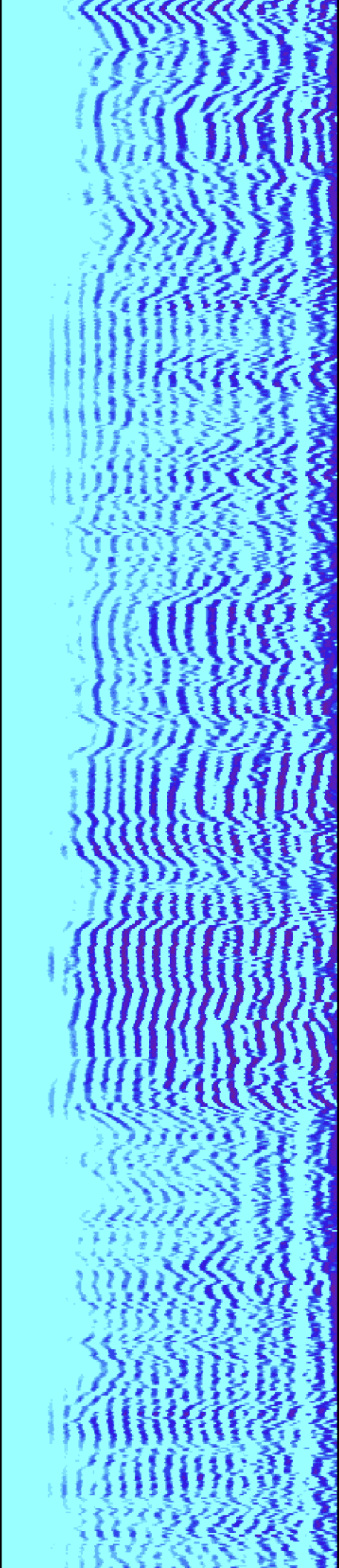


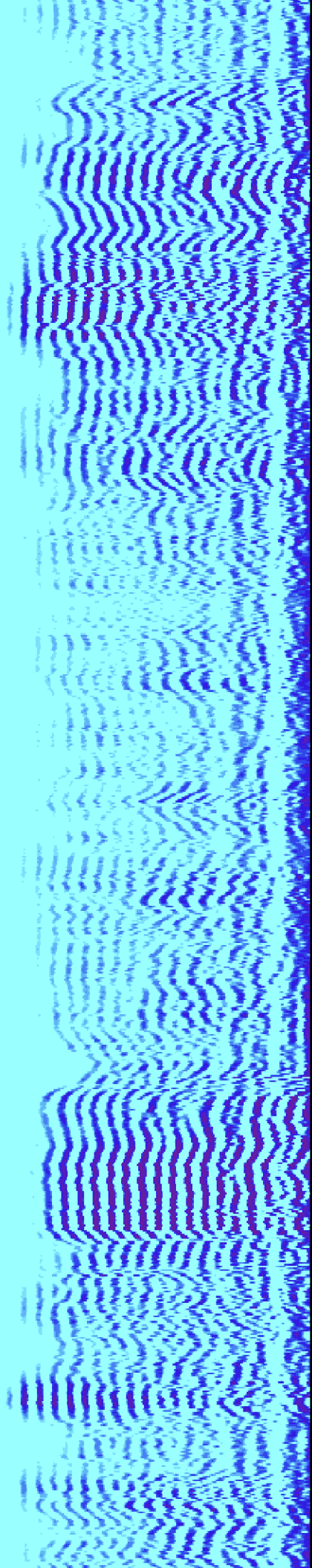
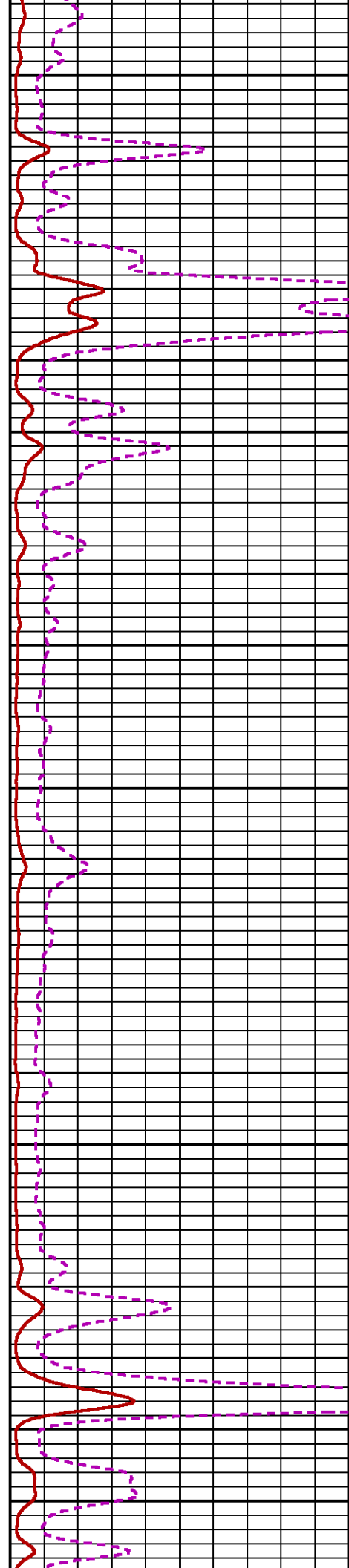
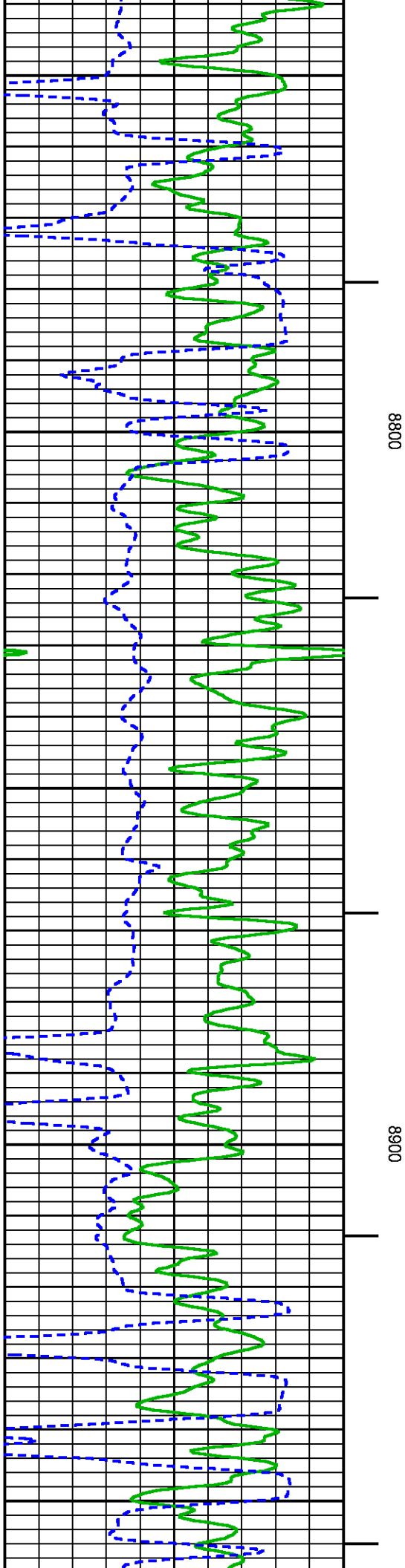


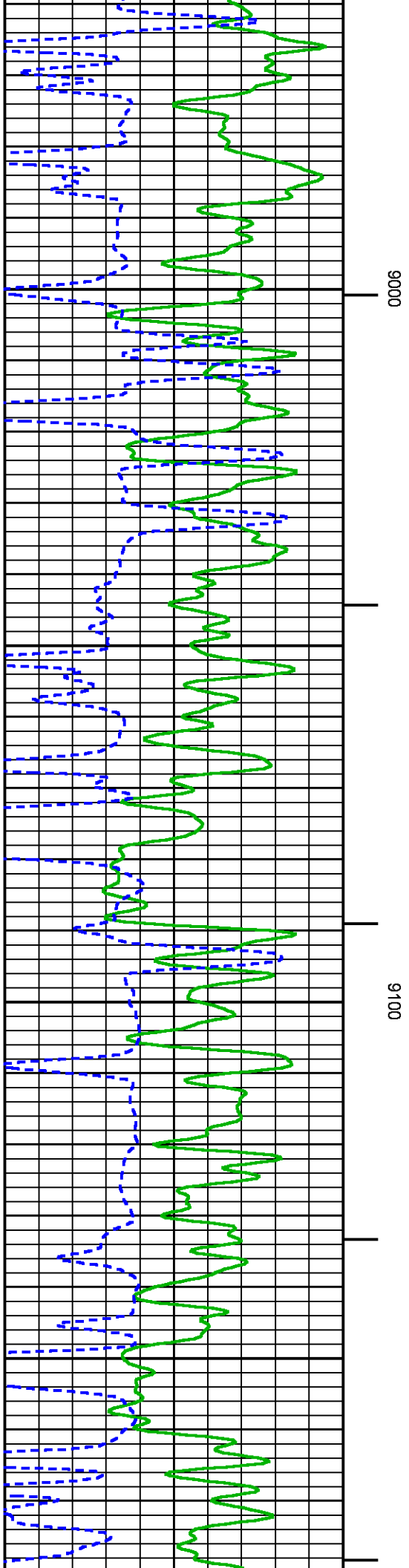
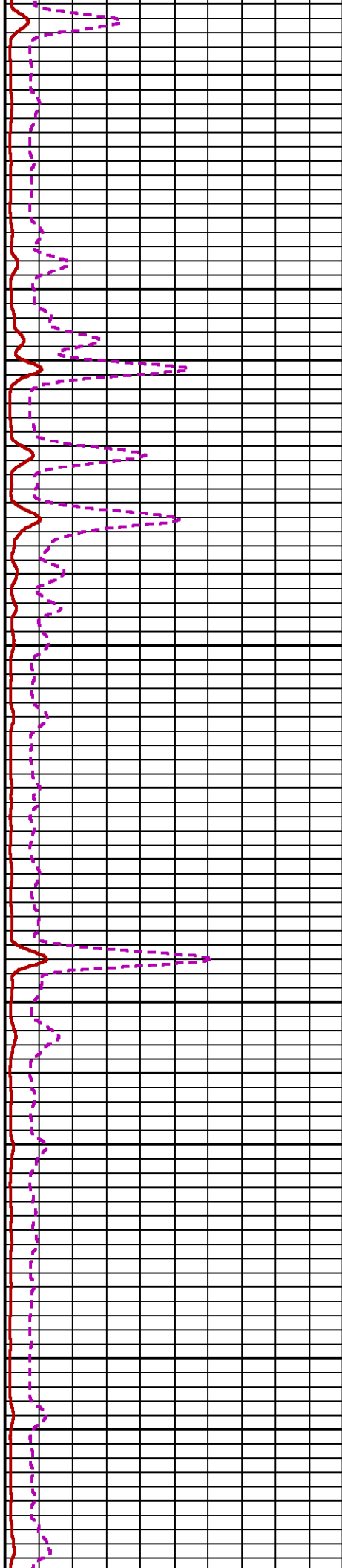
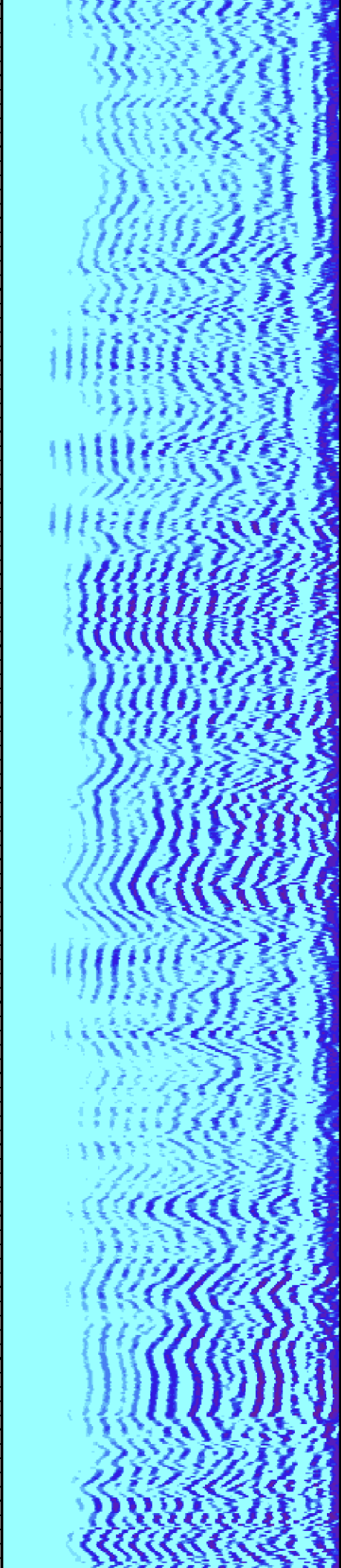




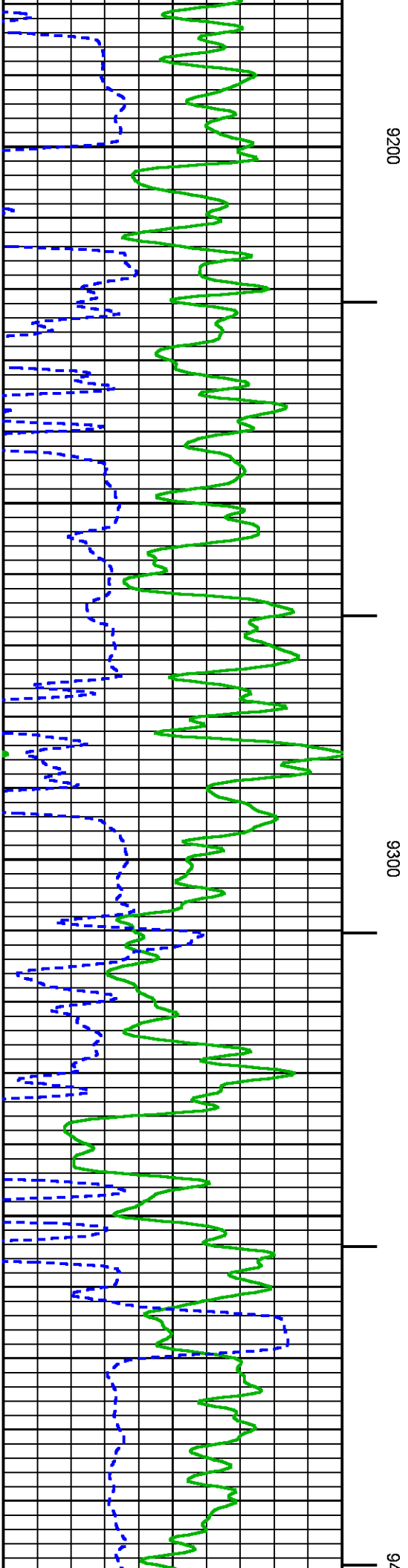
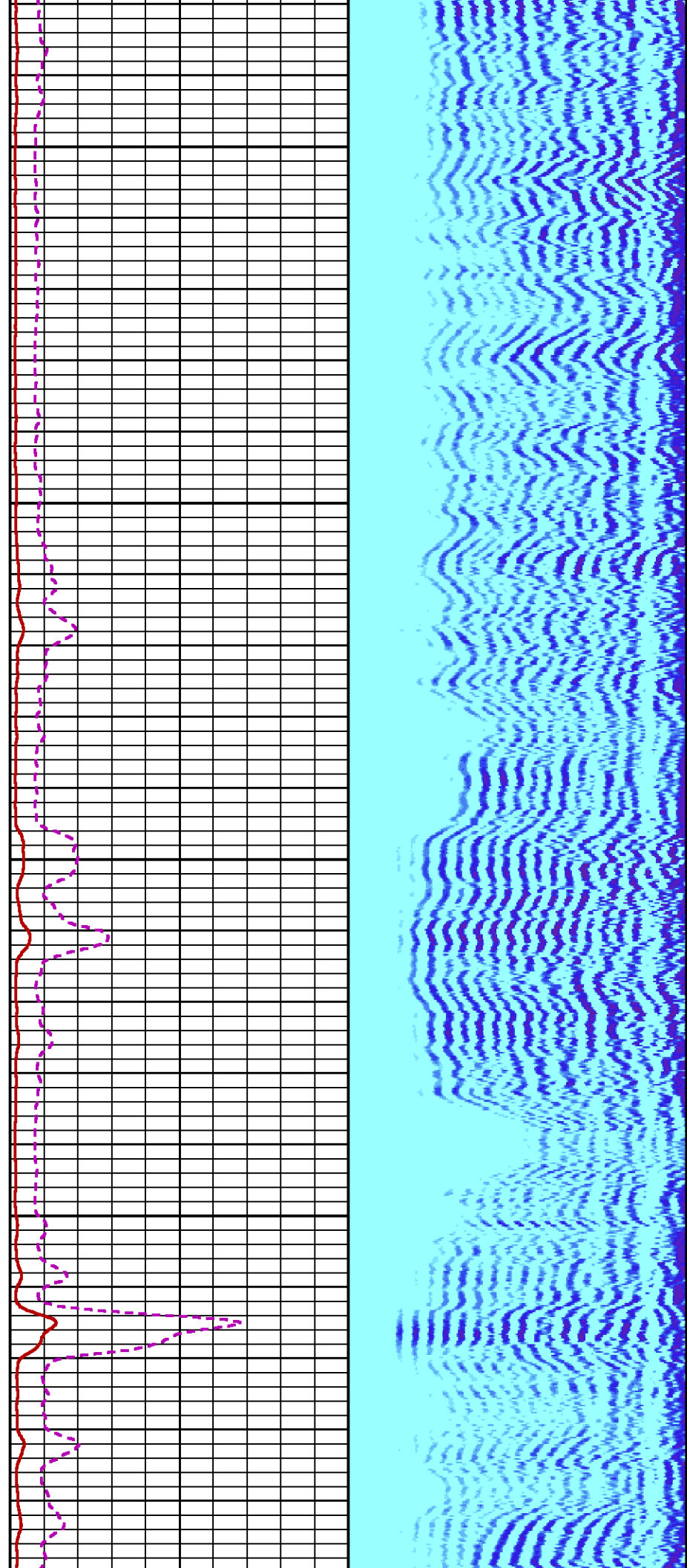


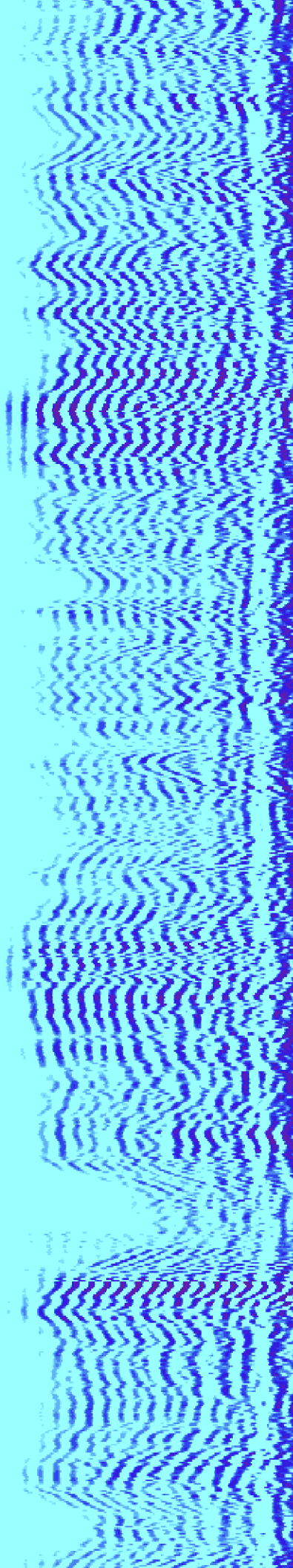
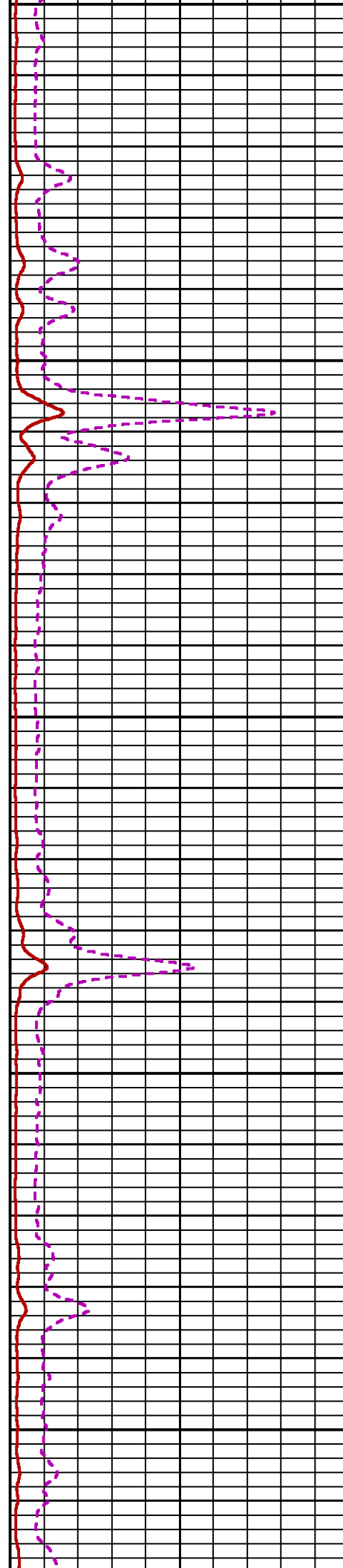
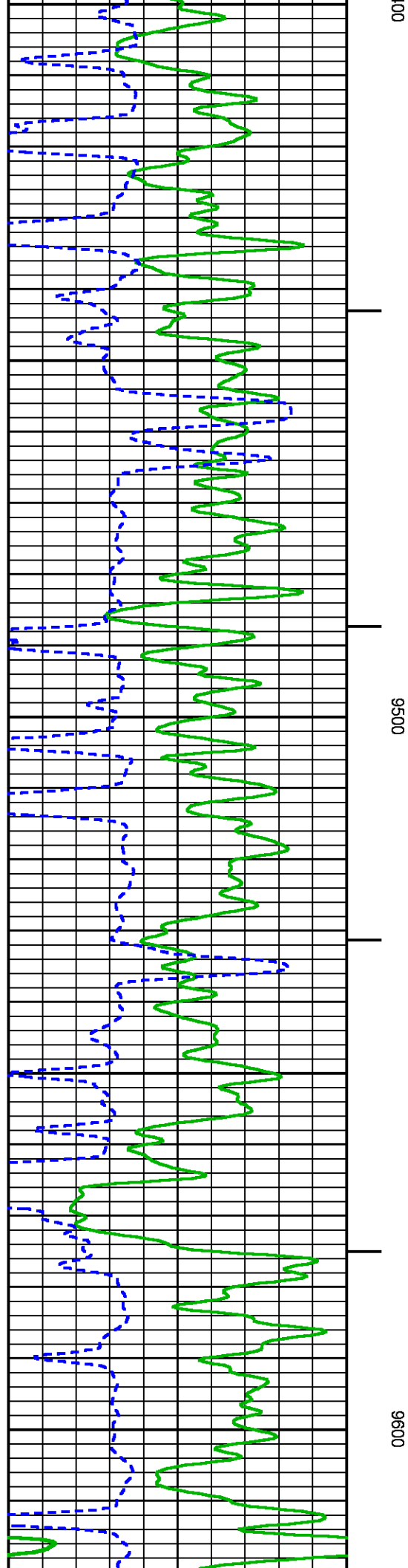


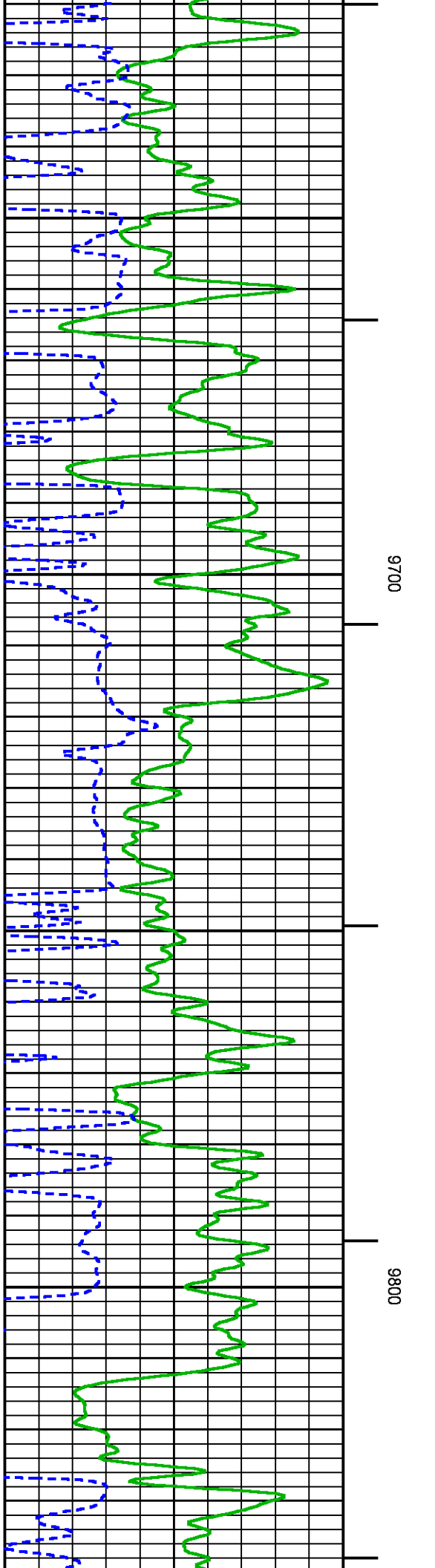
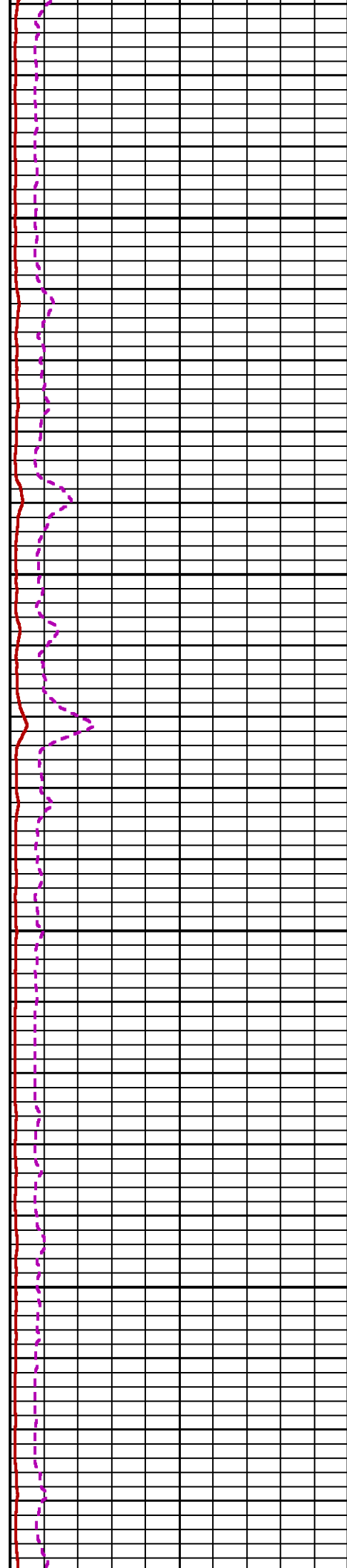
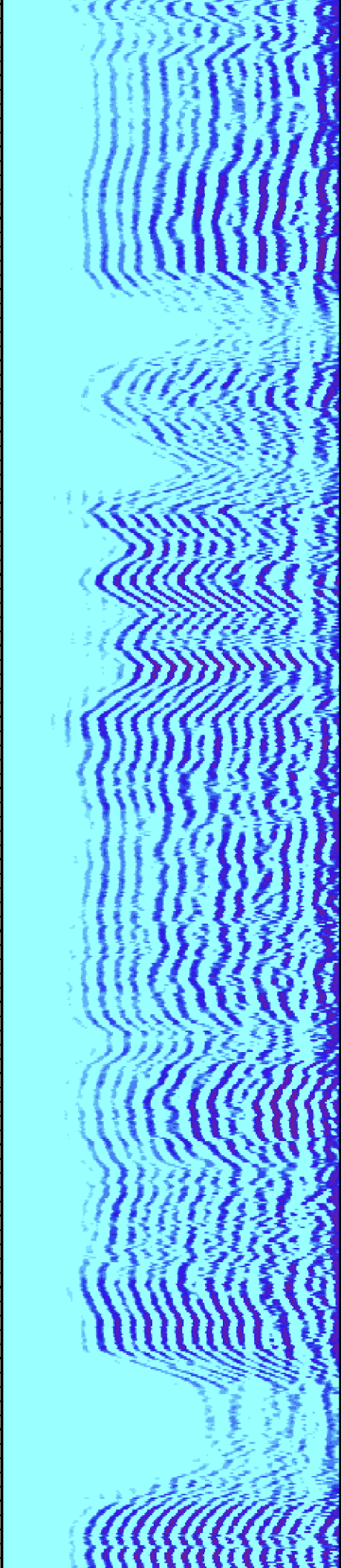


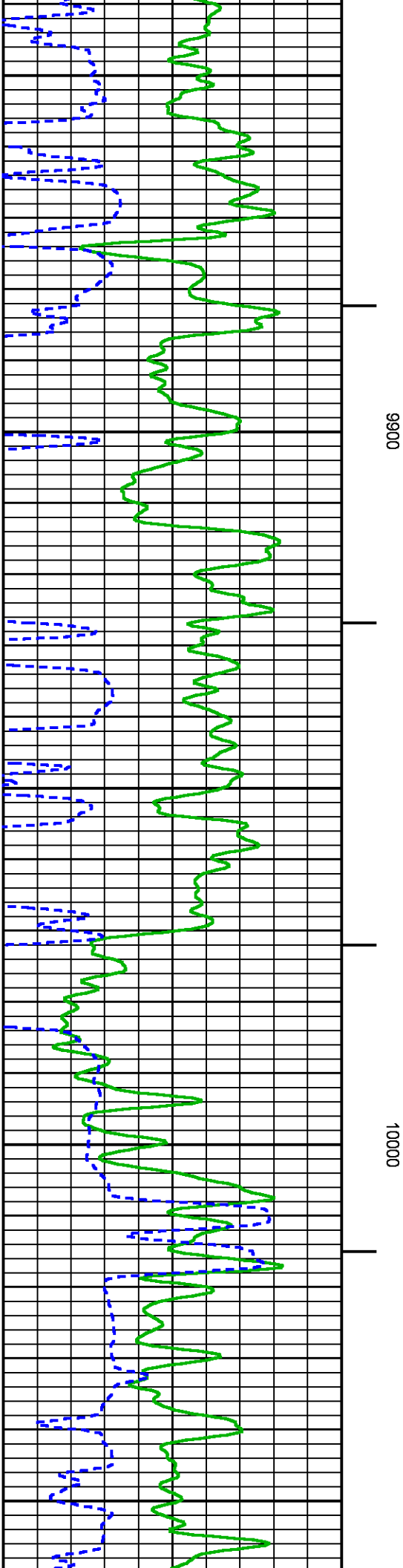
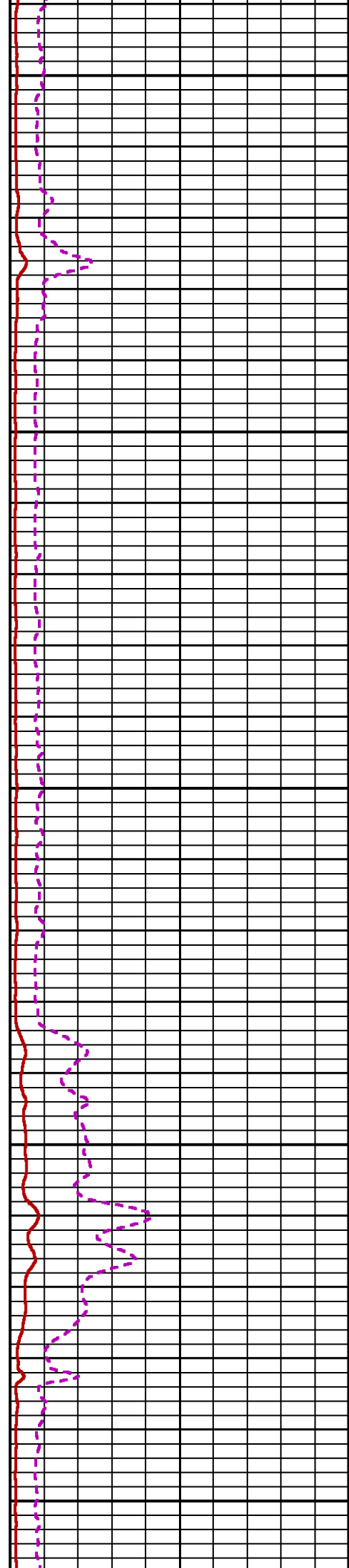
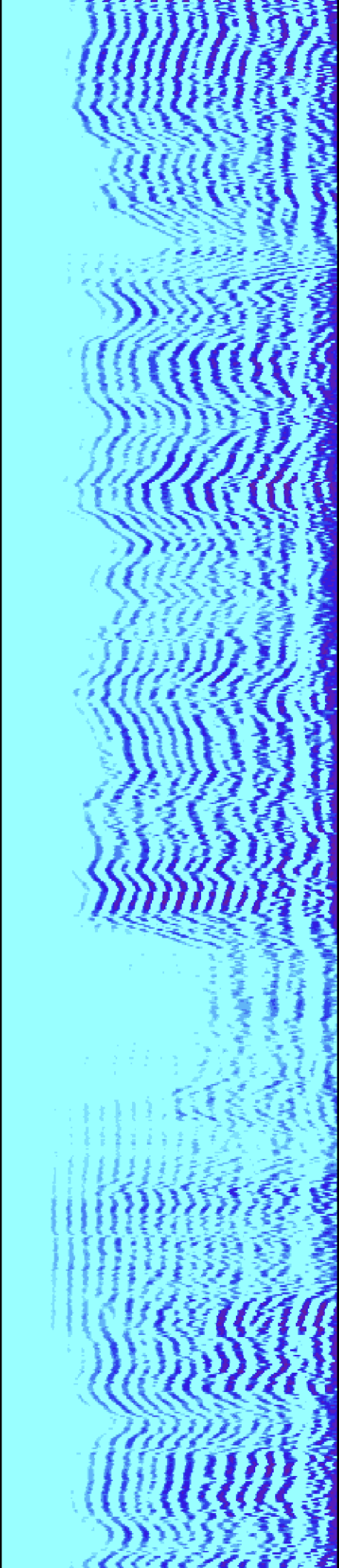




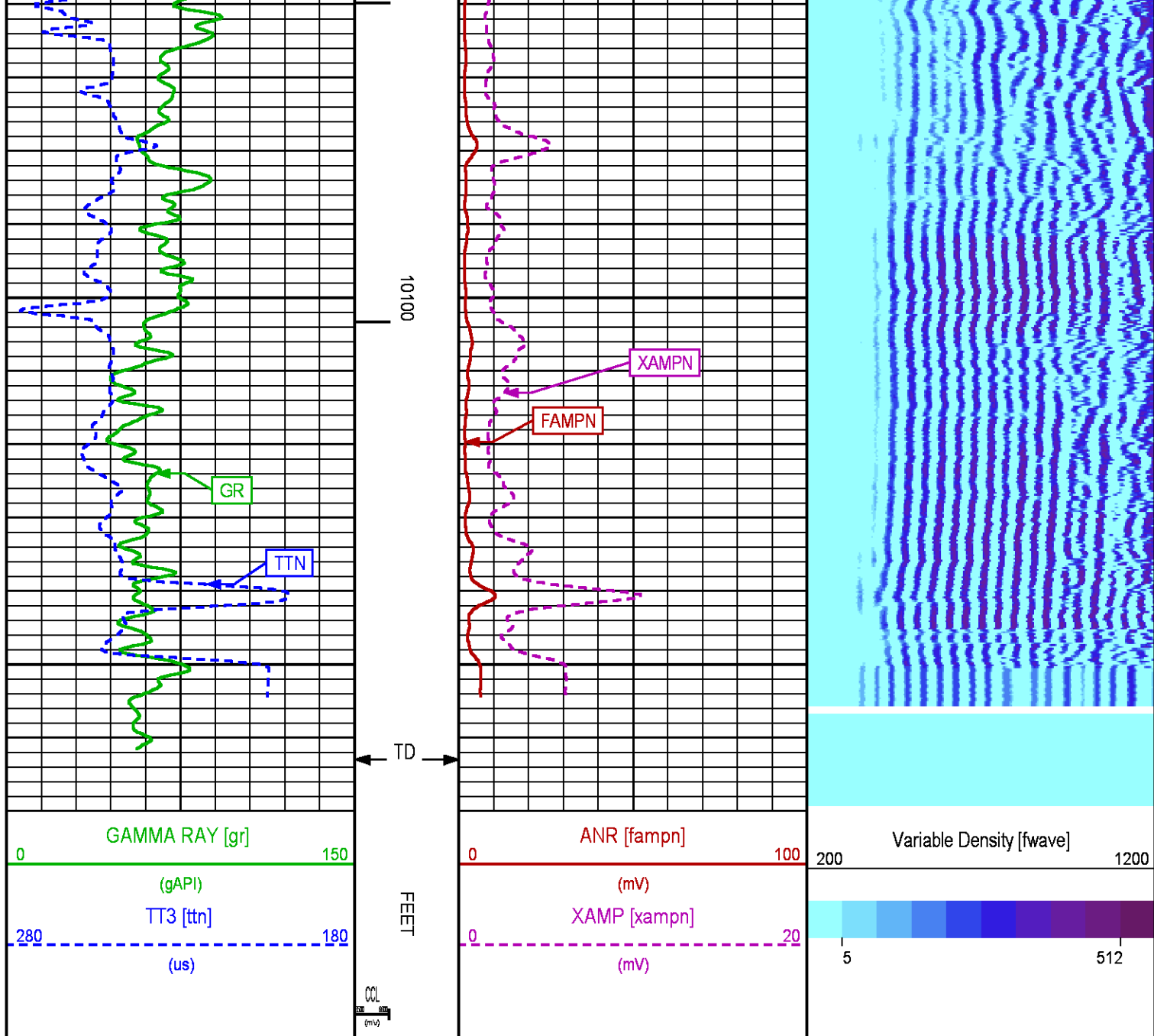












## SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1 Patches: 2

Plotted: Mon Sep 1 12:36:26 2014

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH089276/n012e06.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 22.750 ft BOTTOM DEPTH: 5698.750 ft

### SYMMETRIC FILTER

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

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

ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	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	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	173	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*)	-76	us	"	"
	TOOL DELAY (str2*)	-76	us	"	"
	TOOL DELAY (str3*)	-76	us	"	"
	TOOL DELAY (str4*)	-76	us	"	"
	TOOL DELAY (str5*)	-76	us	"	"
	TOOL DELAY (str6*)	-76	us	"	"
	TOOL DELAY (str7*)	-76	us	"	"
	TOOL DELAY (str8*)	-76	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-76	us	"	"
	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 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	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 30 15:38:57 2014	CASING COLLAR LOCATOR
F1:FAMPN	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 30 15:38:57 2014	FAR WAVE FORM
F1:GR	Aug 30 15:38:57 2014	GAMMA RAY
F1:PMAP	Aug 30 15:38:57 2014	PERCENT BOND CEMENT MAP

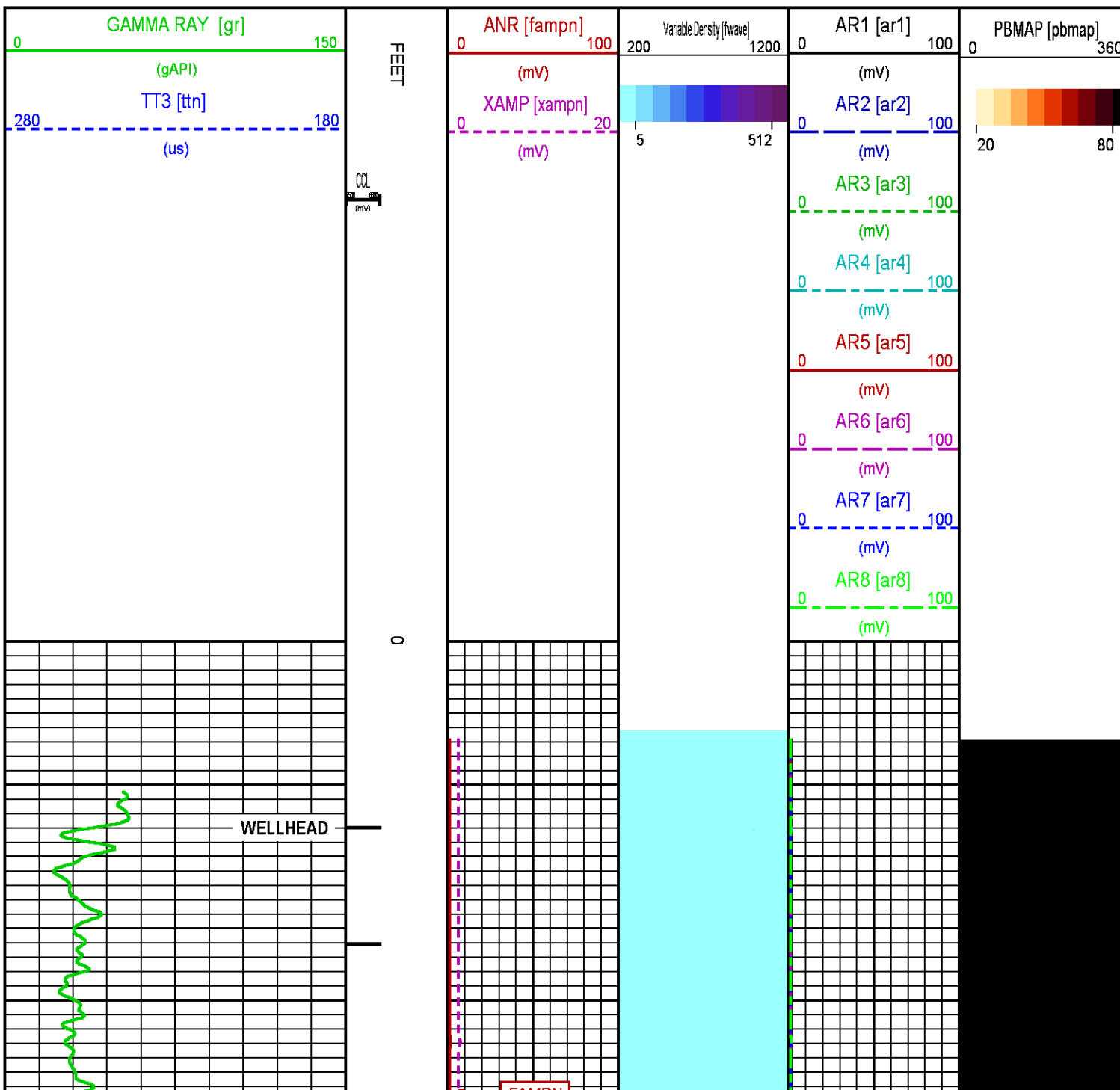
F1:PBMAP	Aug 30 15:38:57 2014	PERCENT BOND CEMENT MAP
F1:TTN	Aug 30 15:38:57 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 30 15:38:57 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

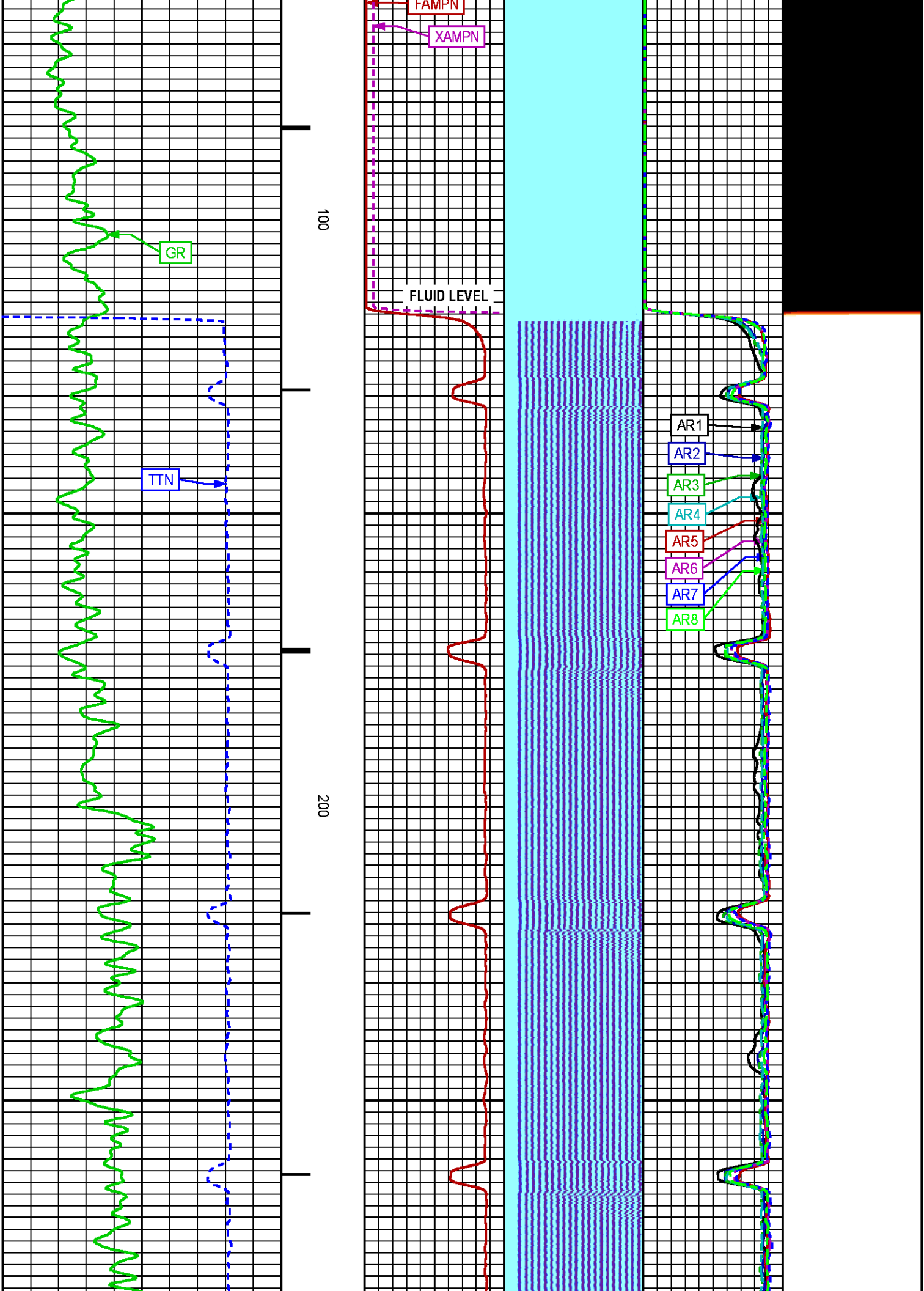
### CURVE MEASURE POINT OFFSET

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		

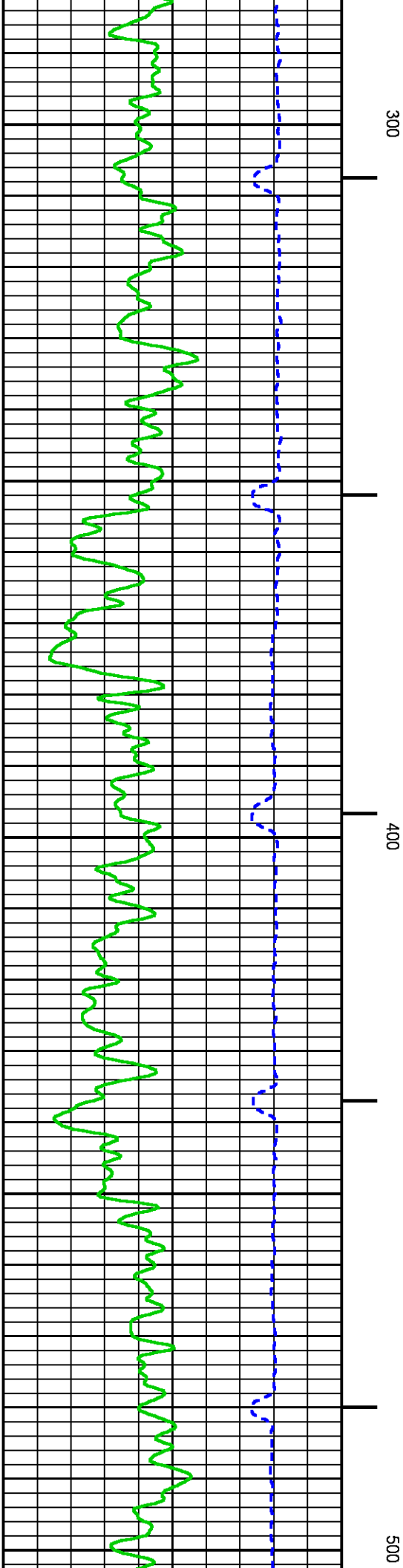
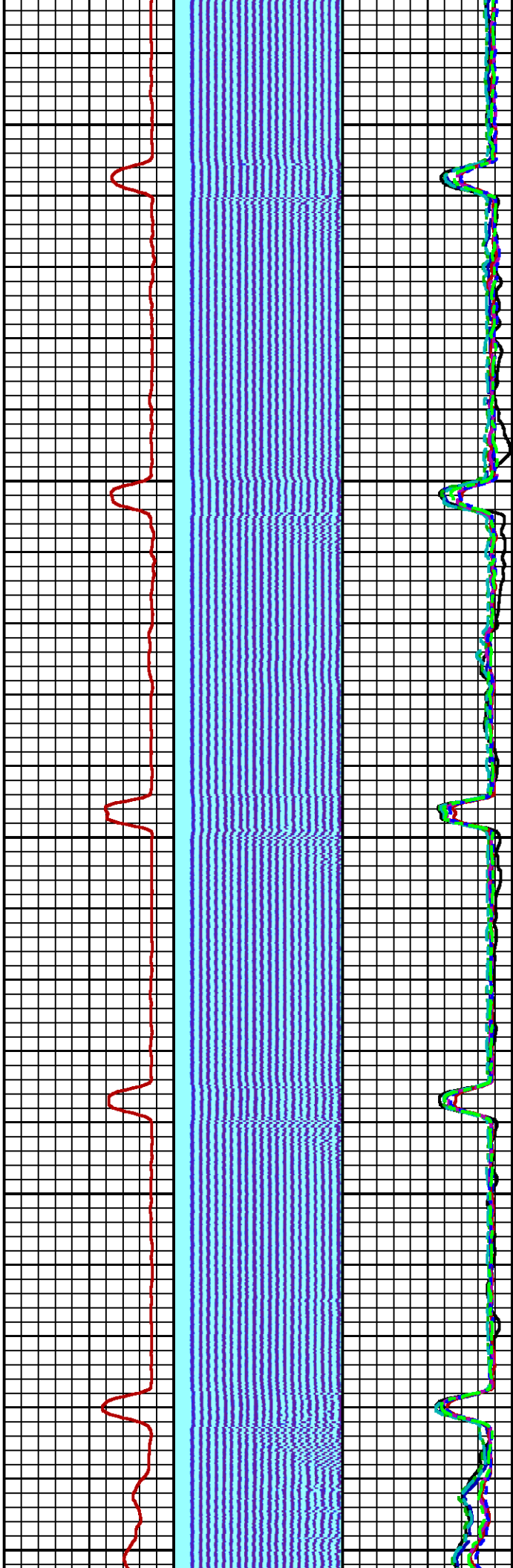
Presentation : HL6670:/dat1a/CH089276/34CBL\_MAIN\_SECONDARY.fvpdf [5"/100' Scale]  
Plot Interval : 0 - 10169.2 Feet

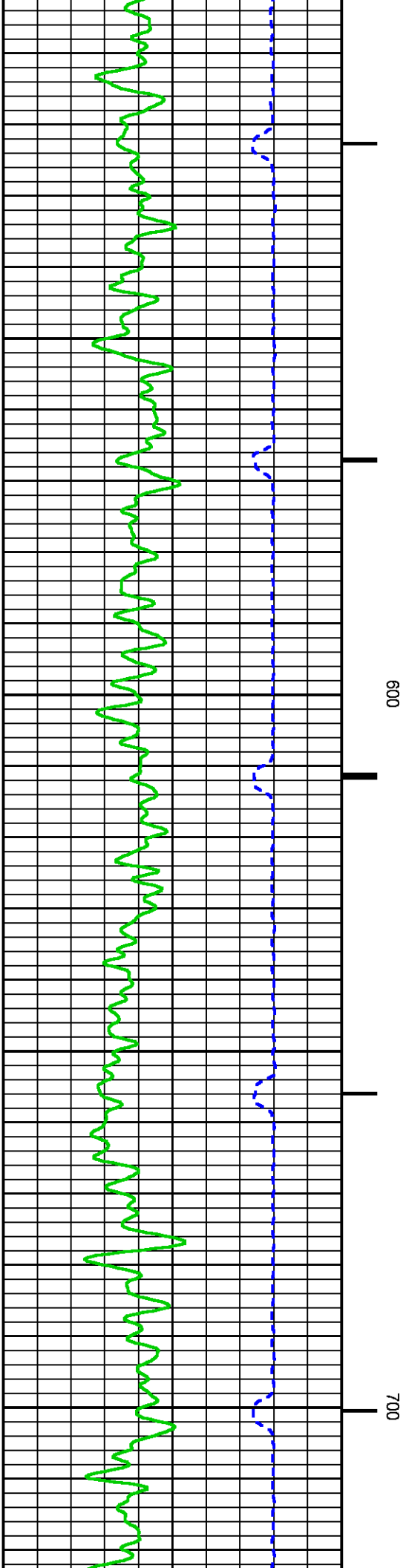
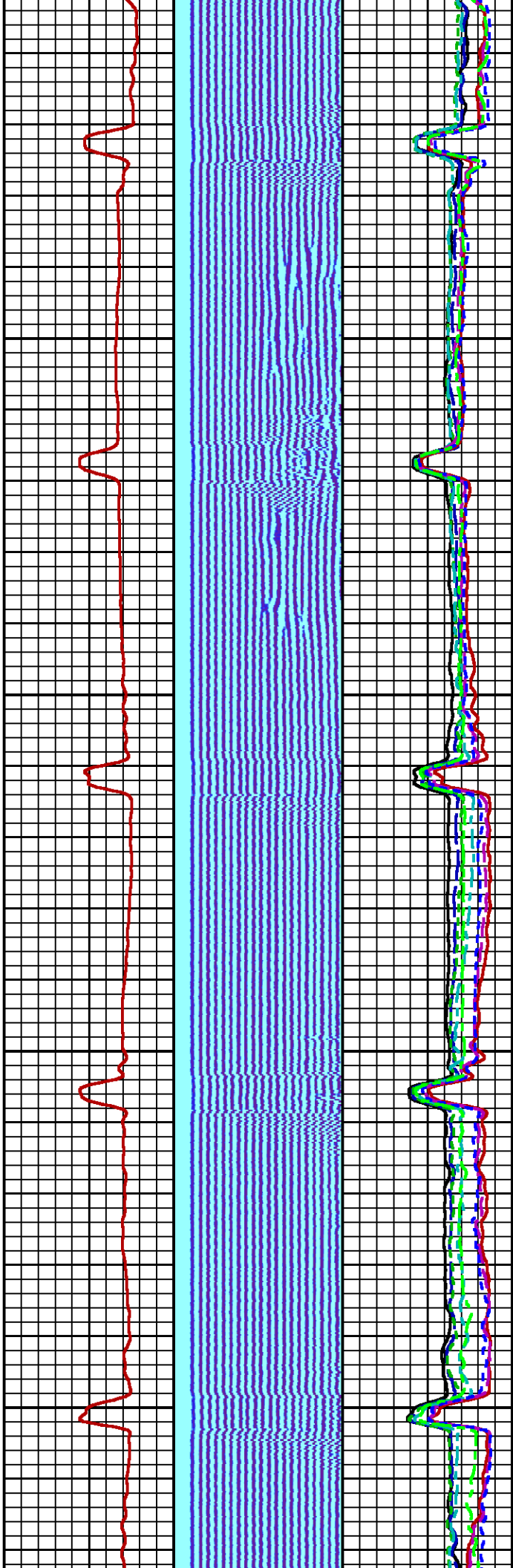
Data File 1 : F1 : HL6670:/dat1a/CH089276/34CBLMAINREDO.xtf  
Created On : Aug 30 15:38:57 2014  
Company : WPX ENERGY  
Well : FEDERAL NER 34-32  
Field : RULISON  
File Interval : 12.5 - 10169.2 Feet  
OCT : n012e

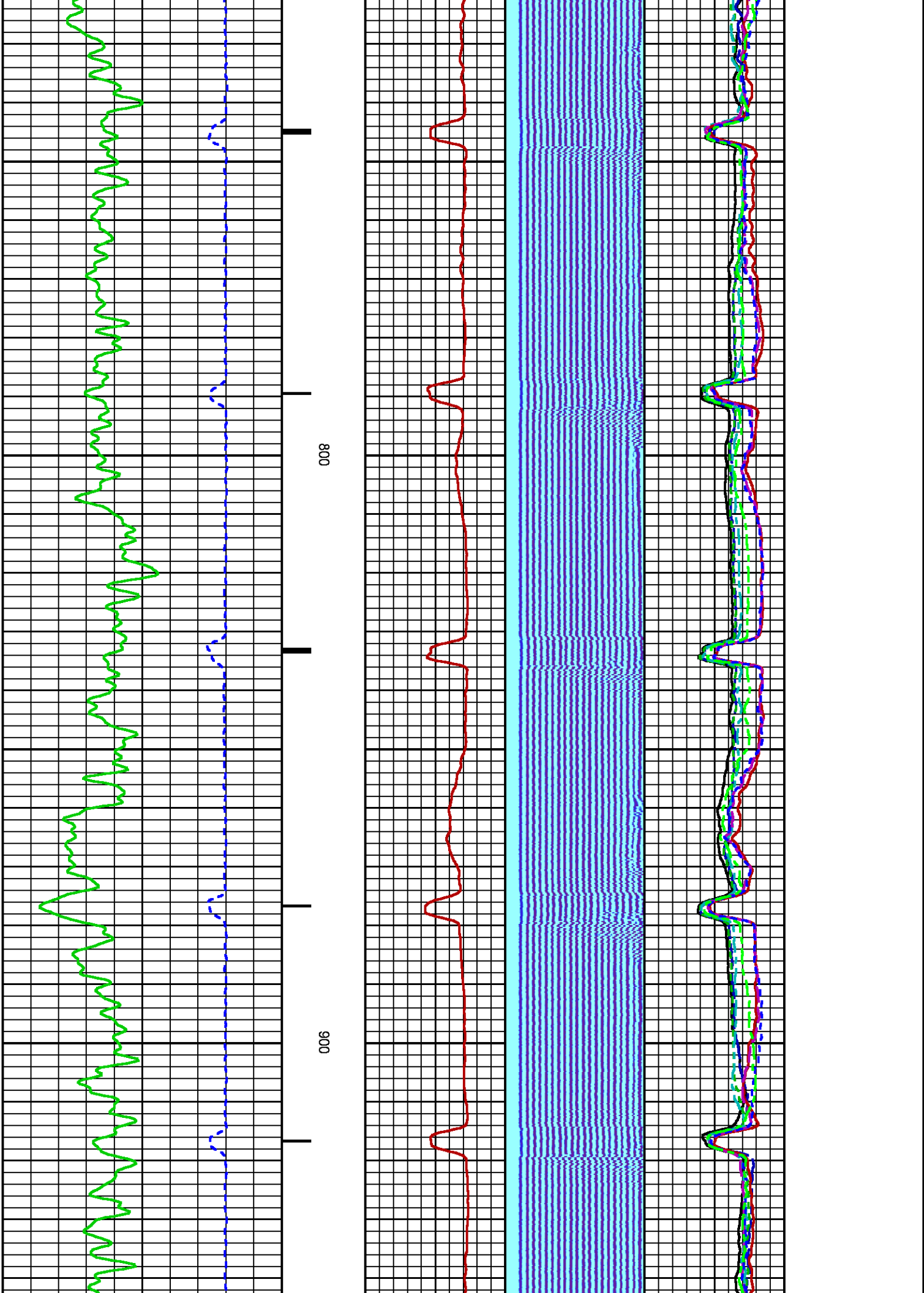


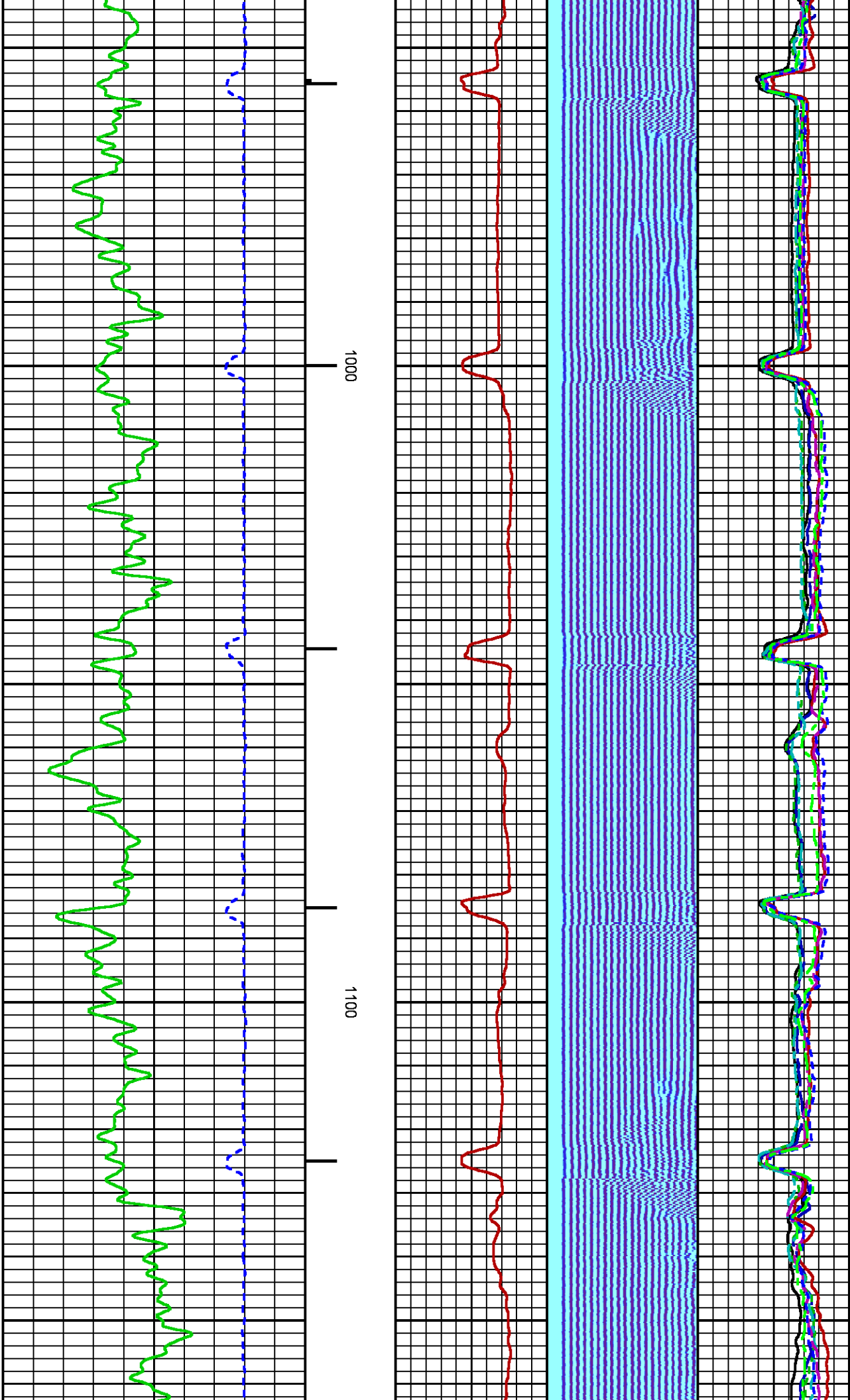




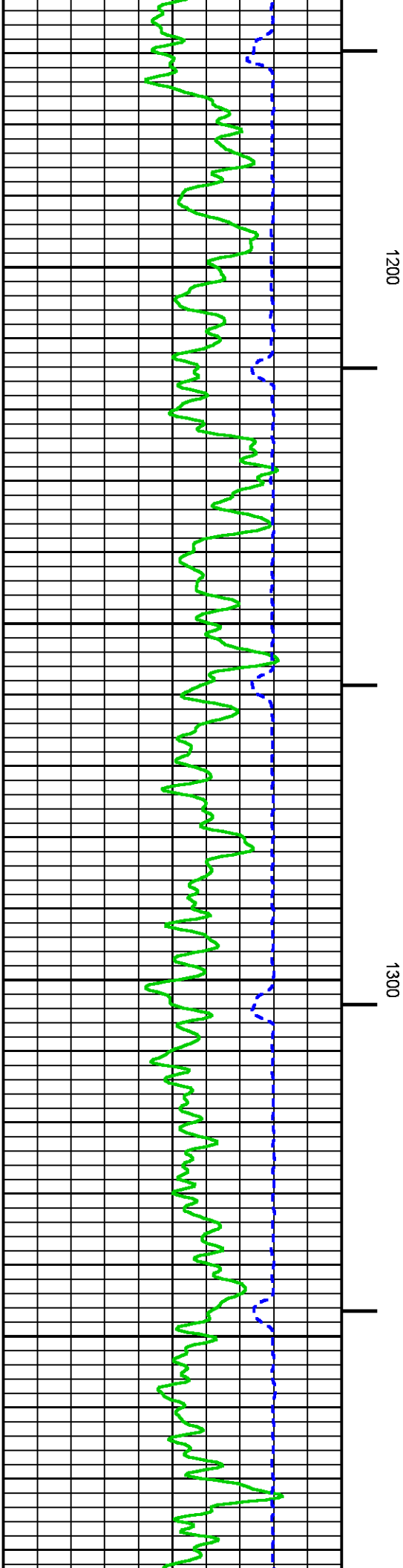
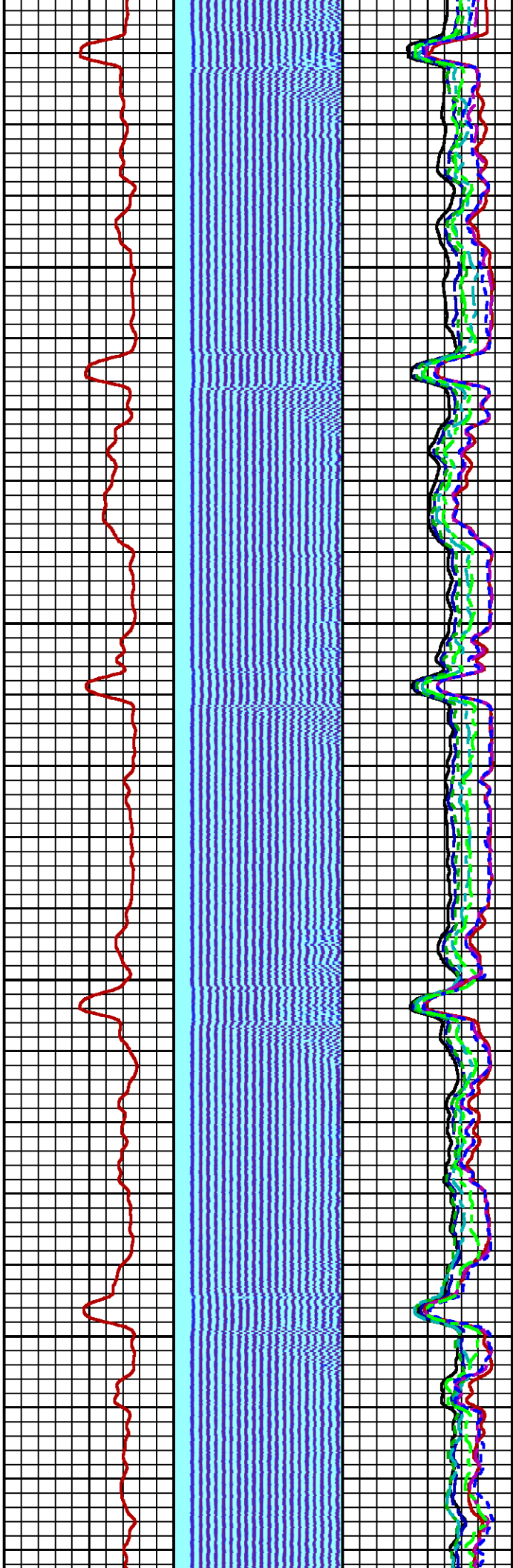


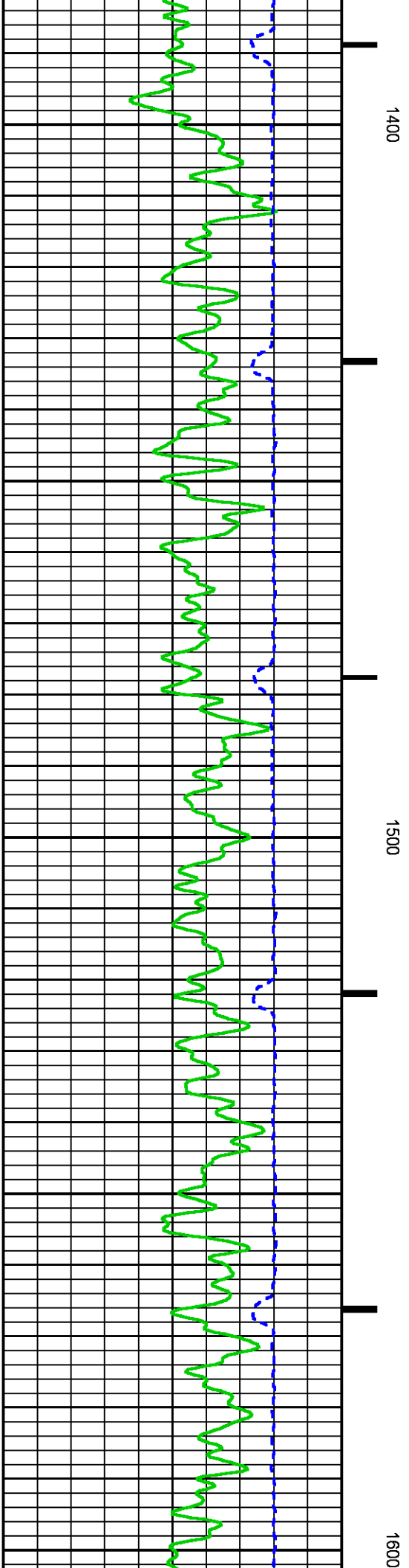
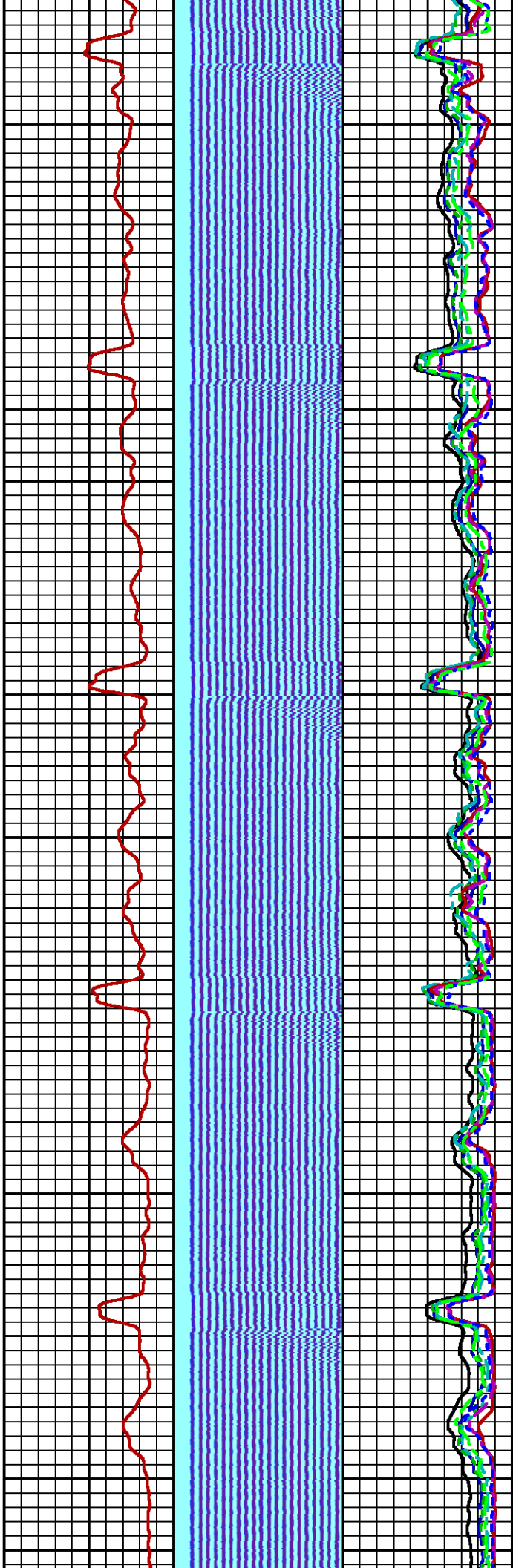


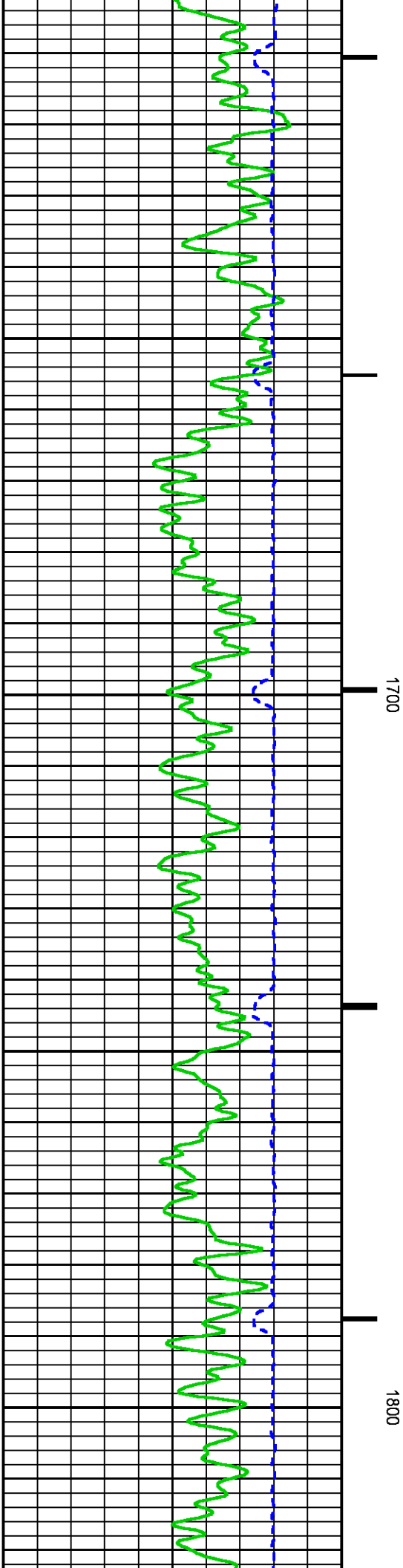
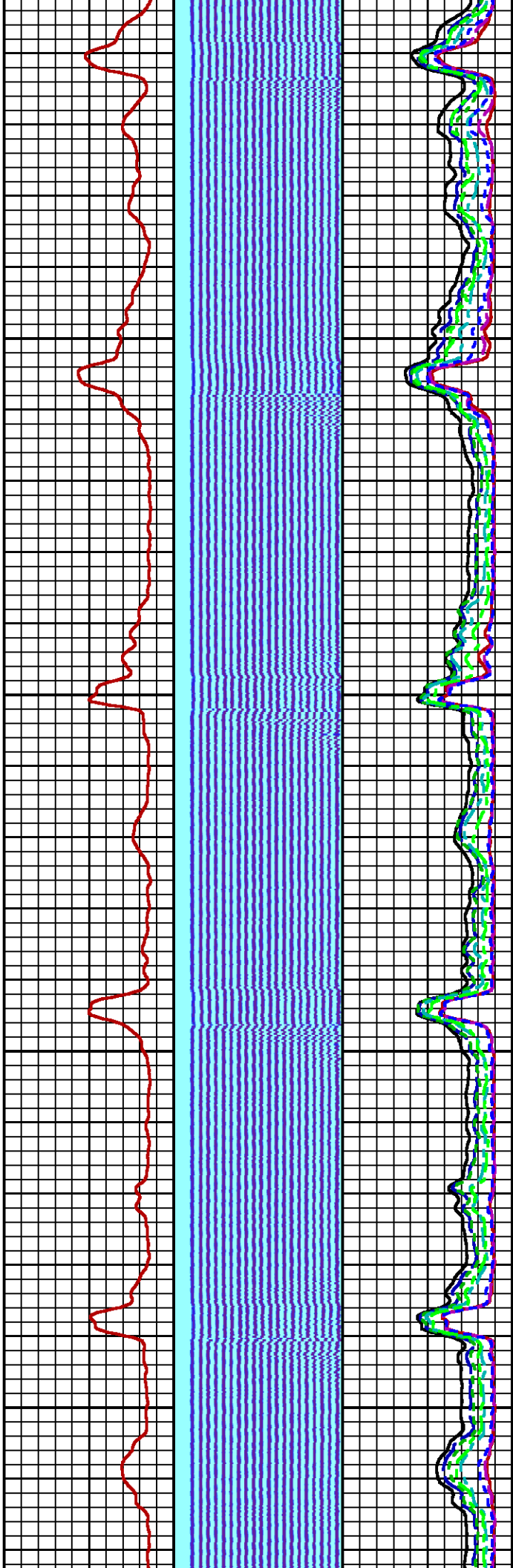


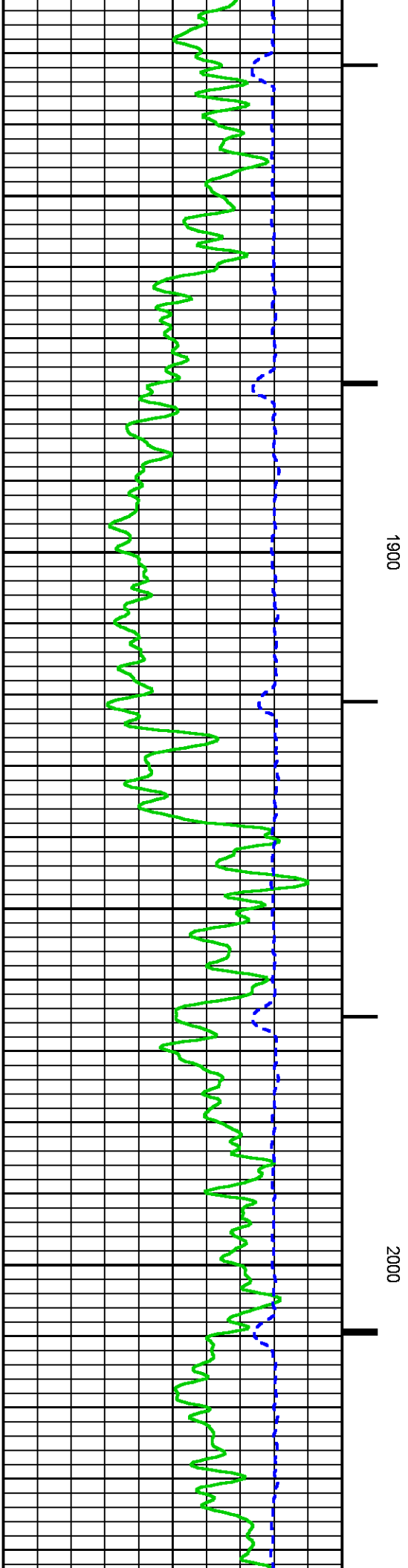
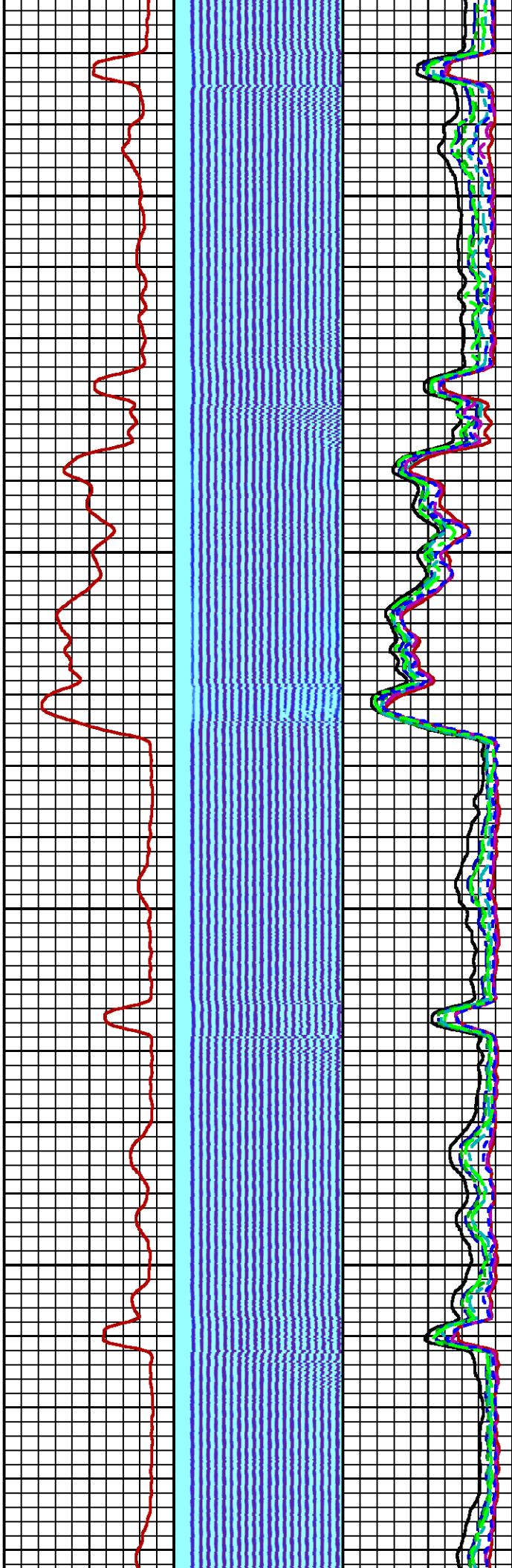
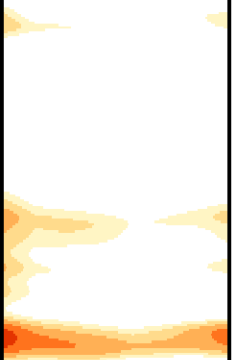




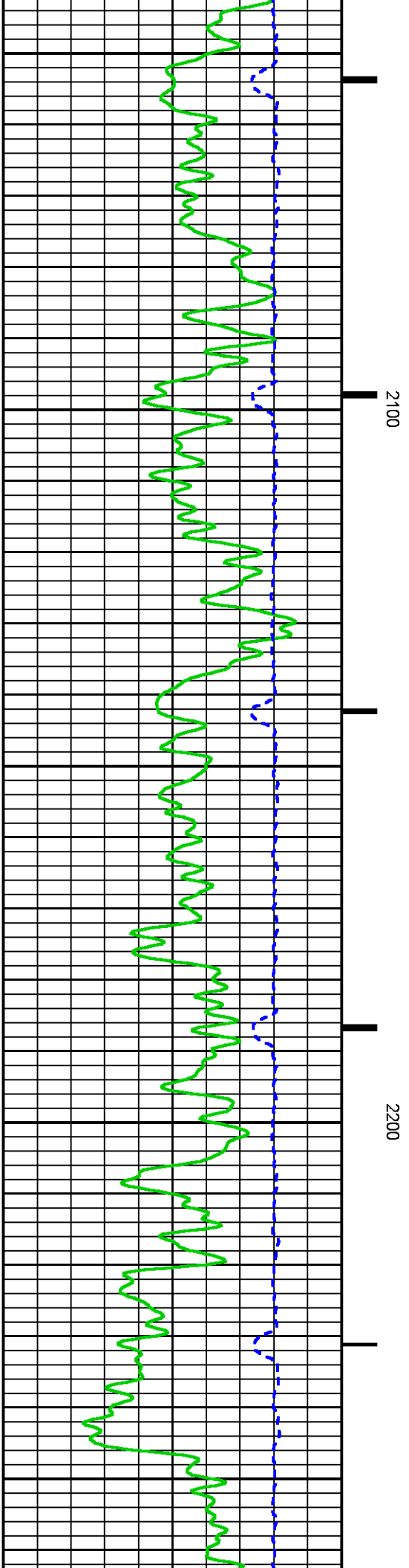
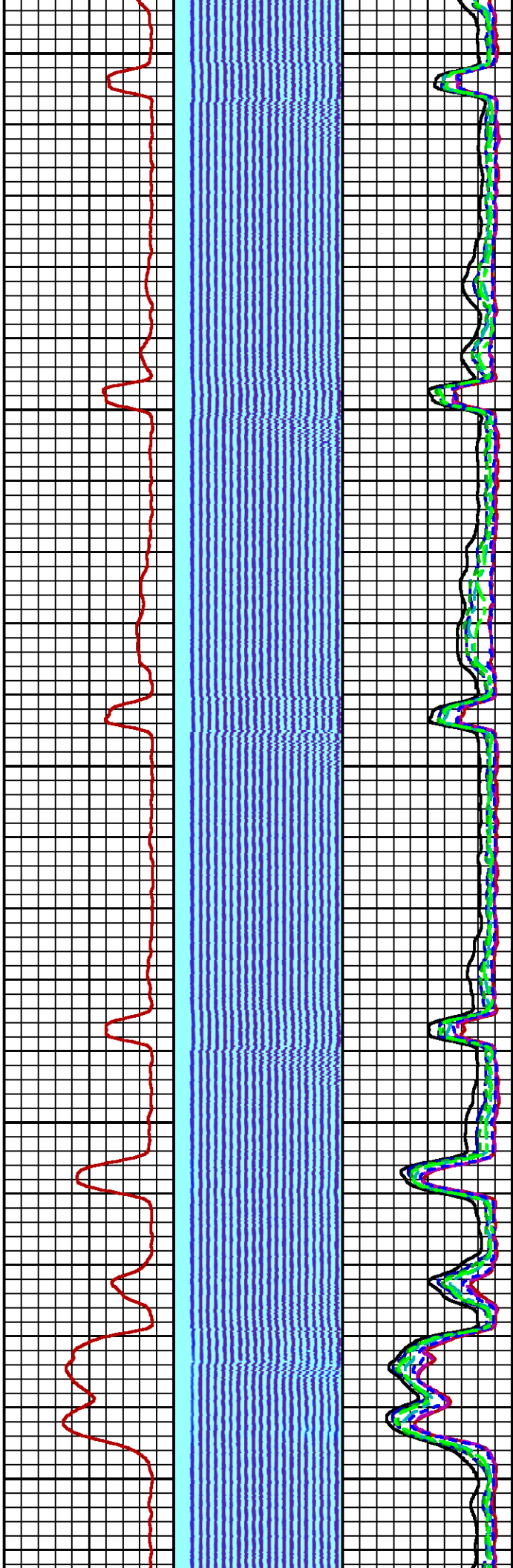


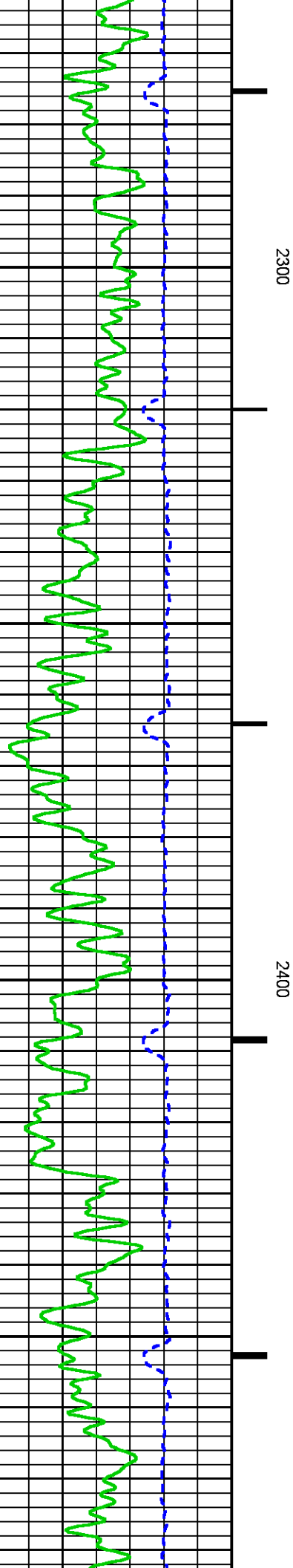
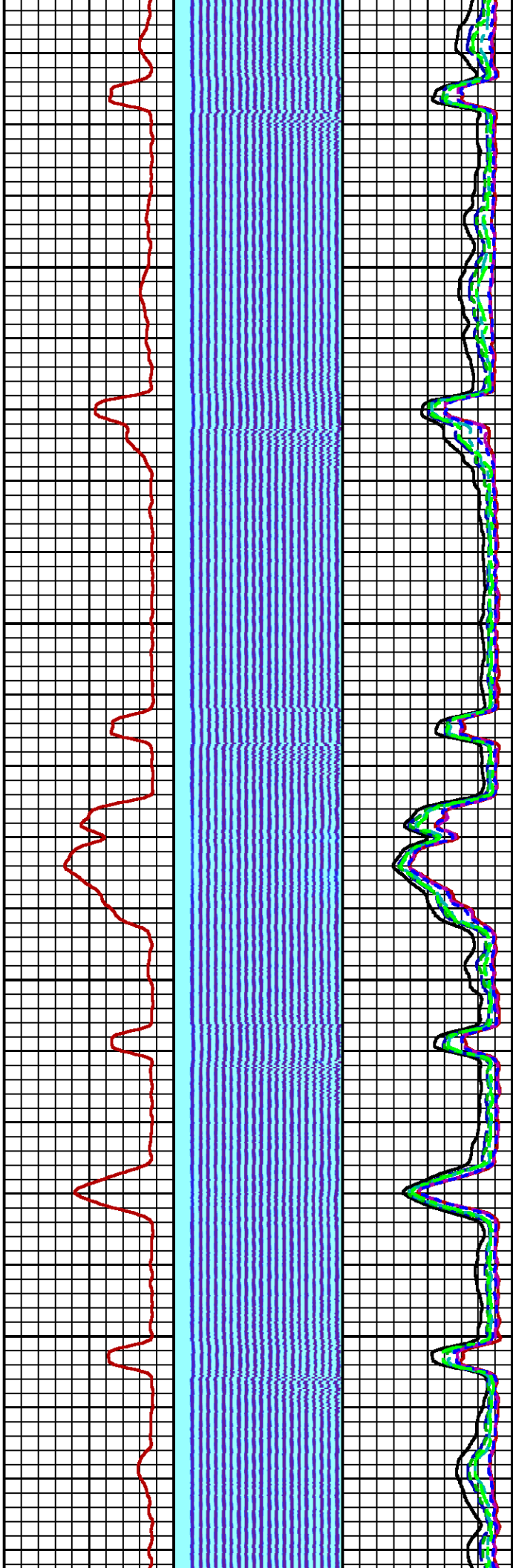


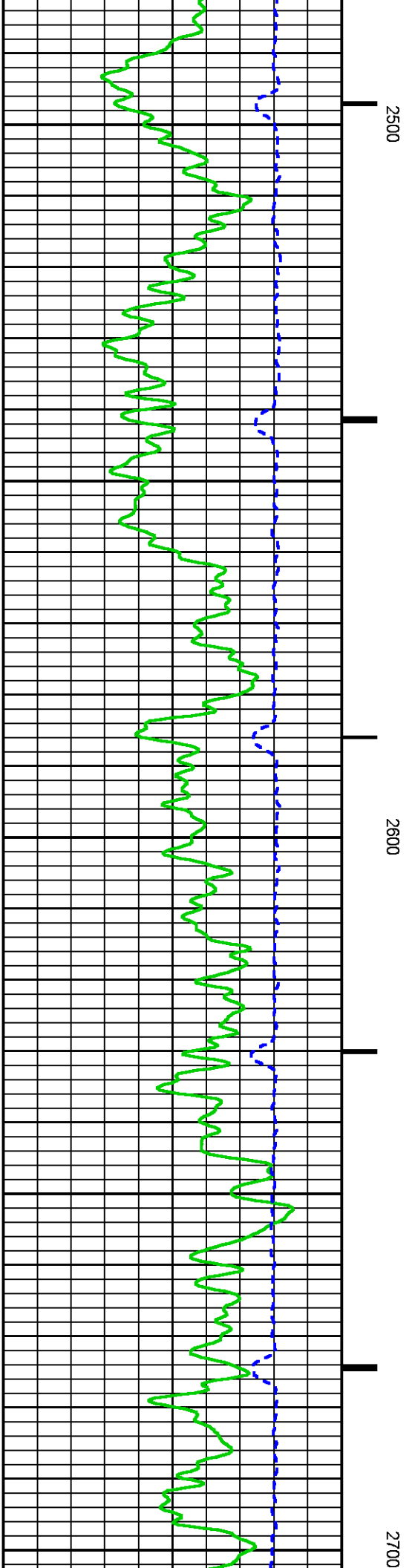
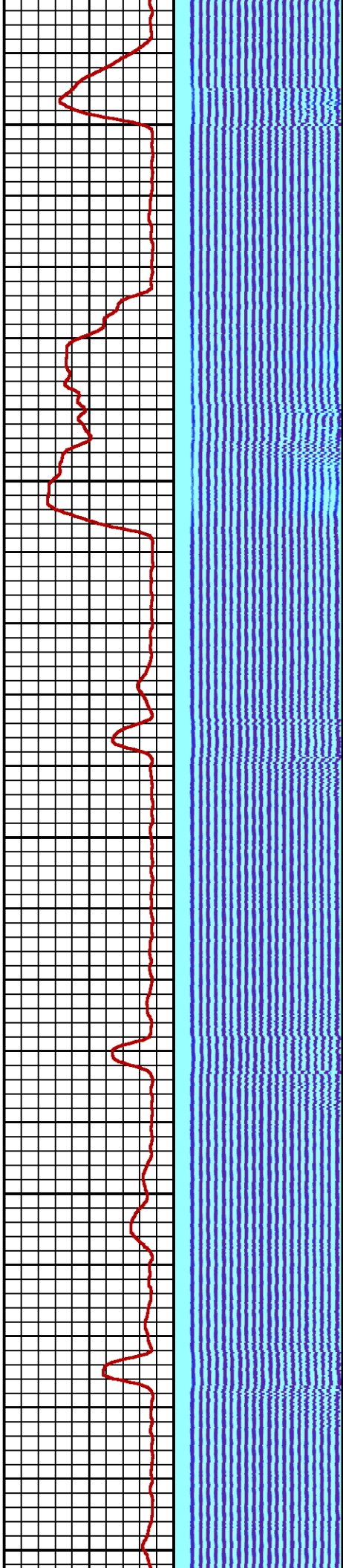
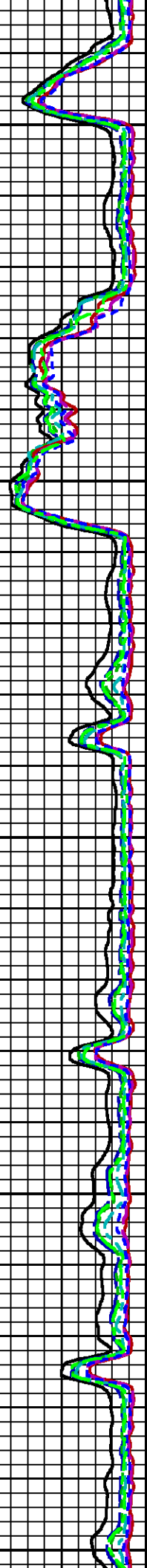
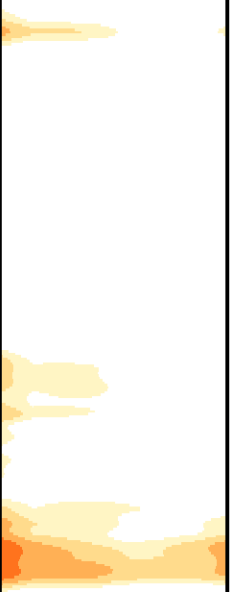


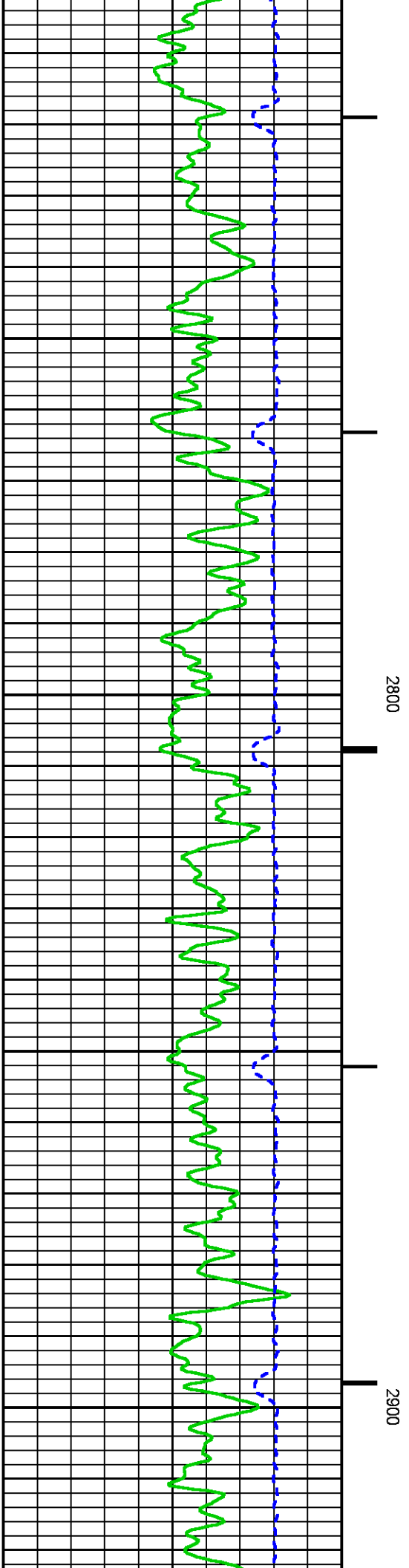
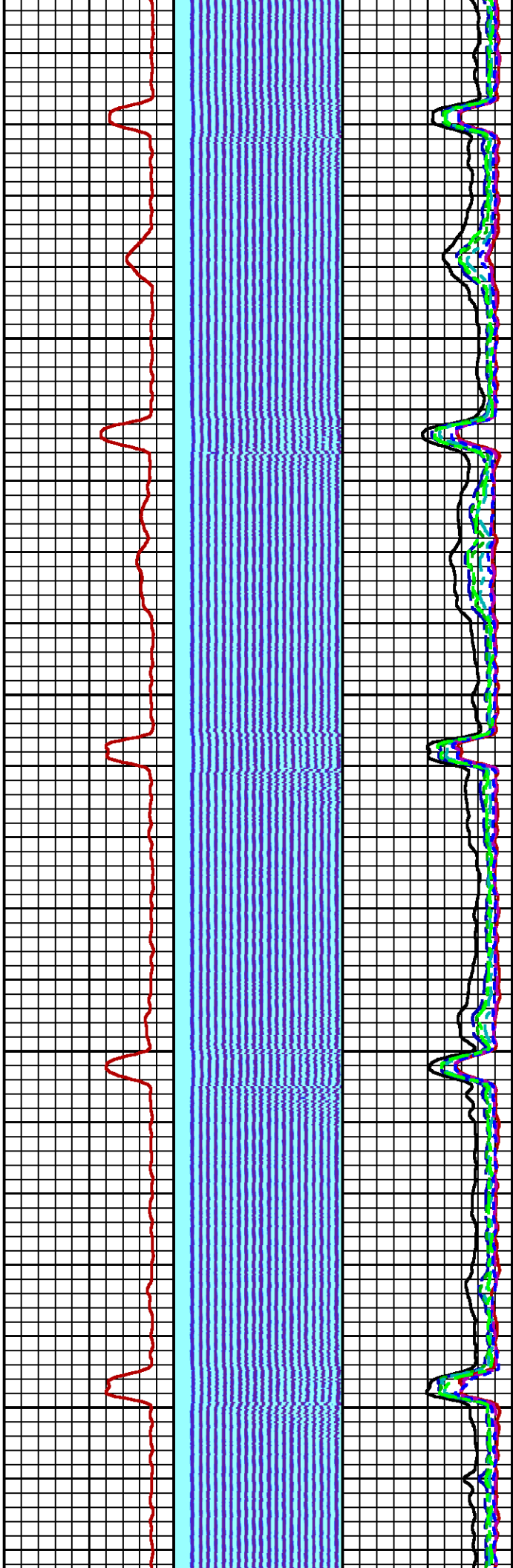




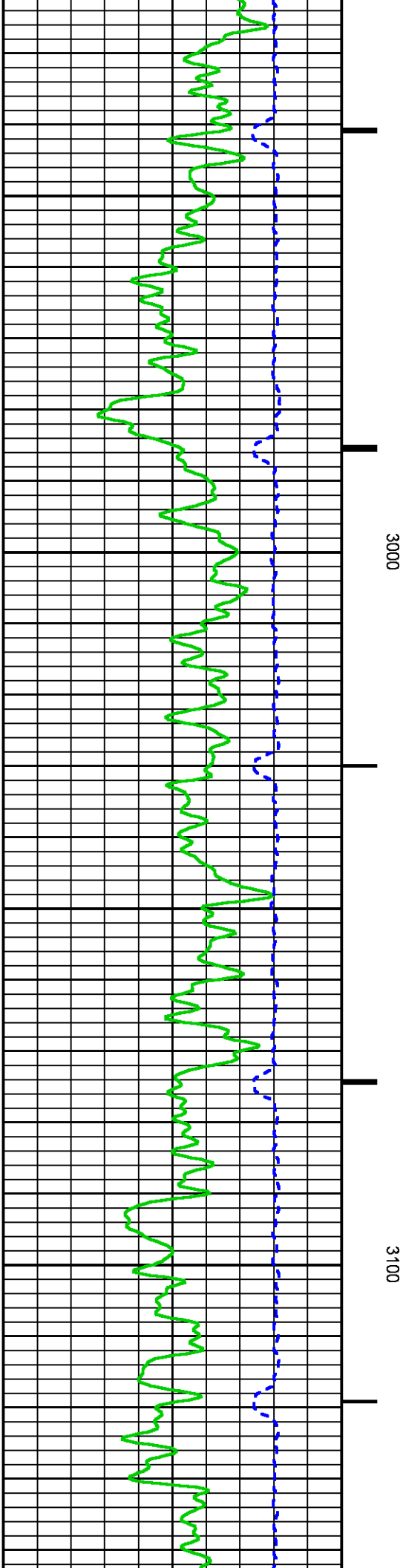
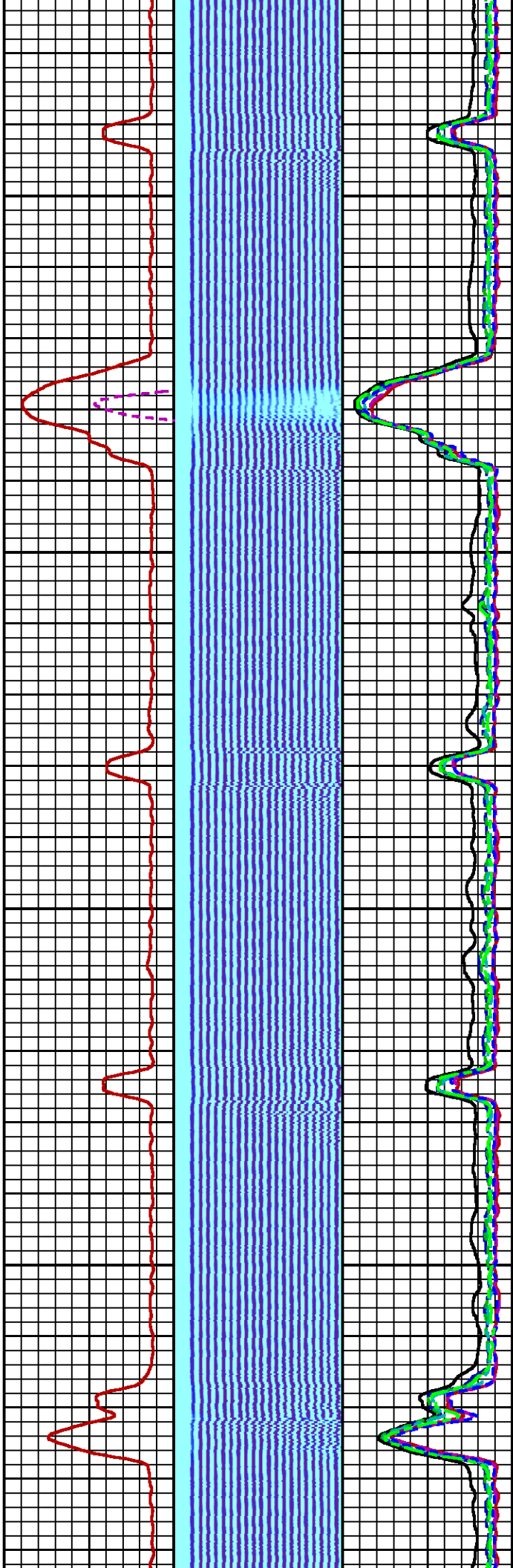
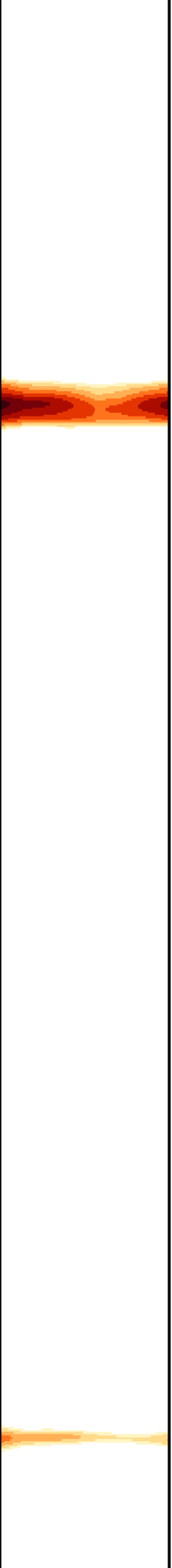


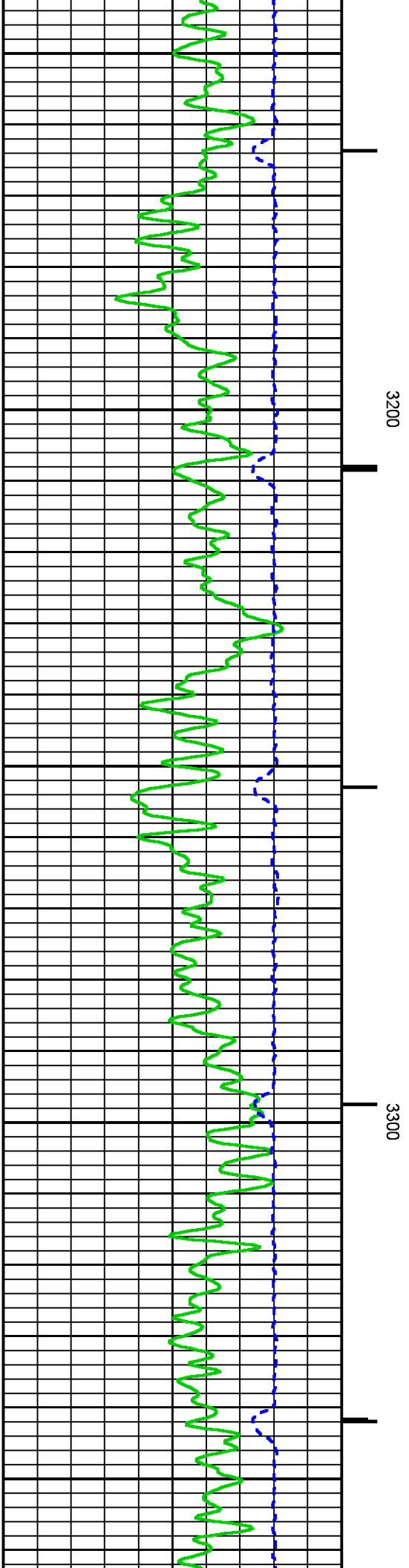
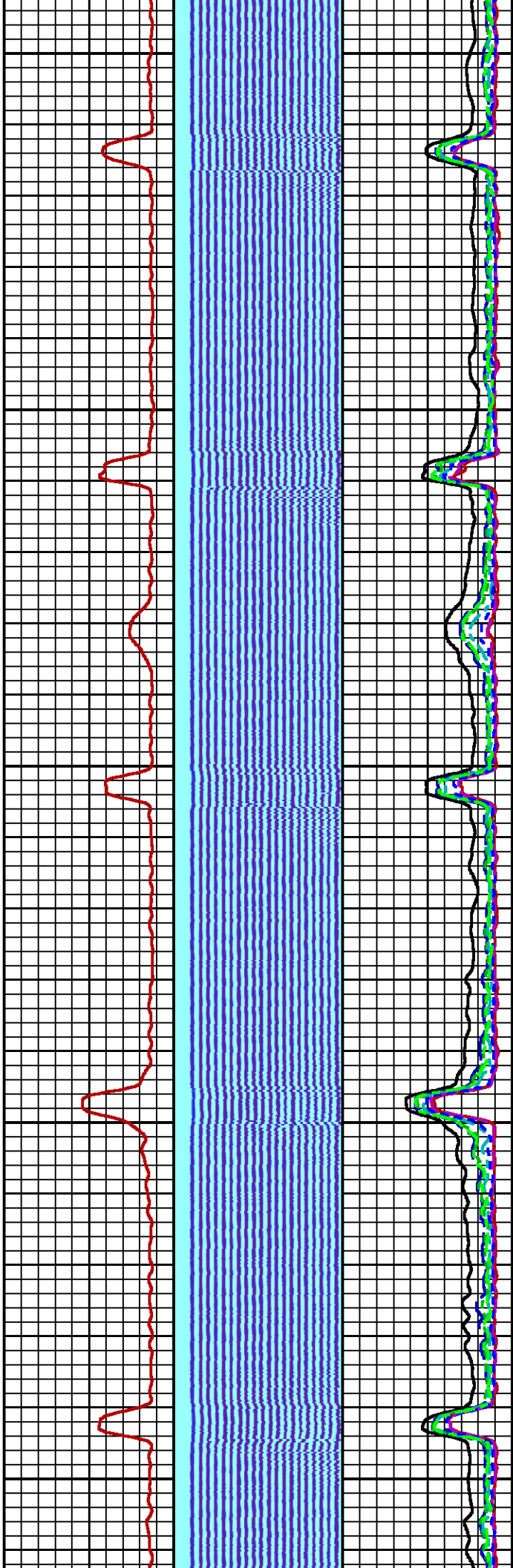


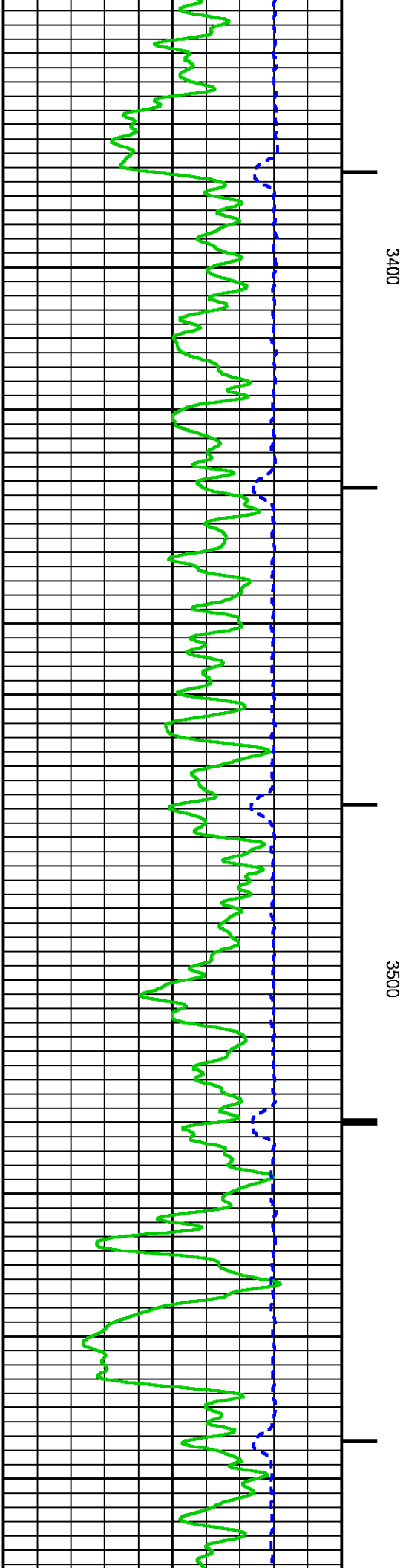
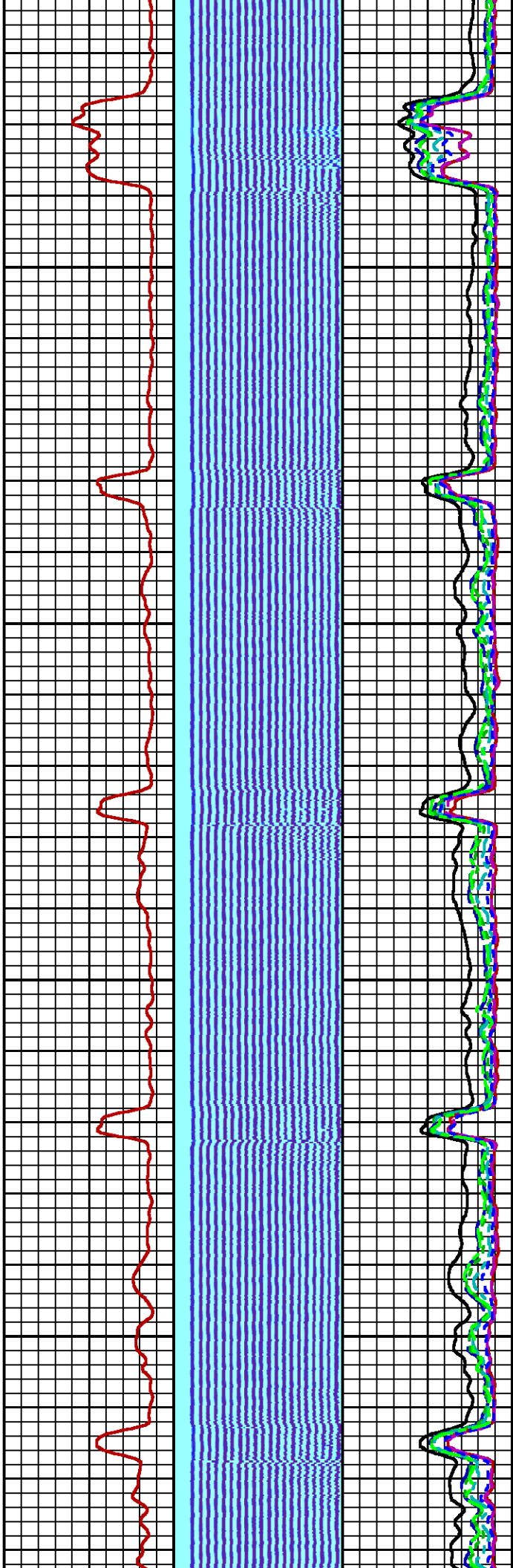


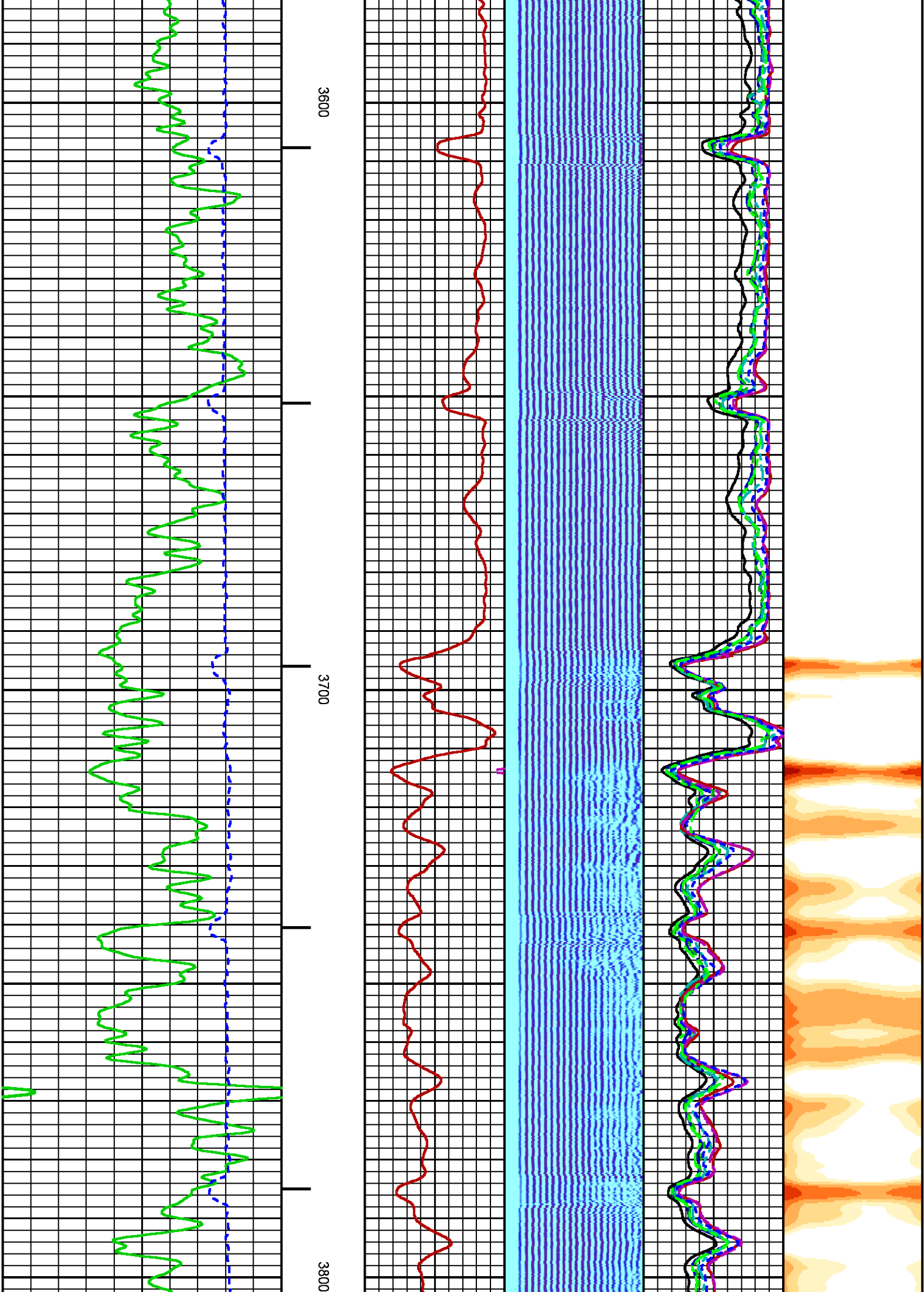




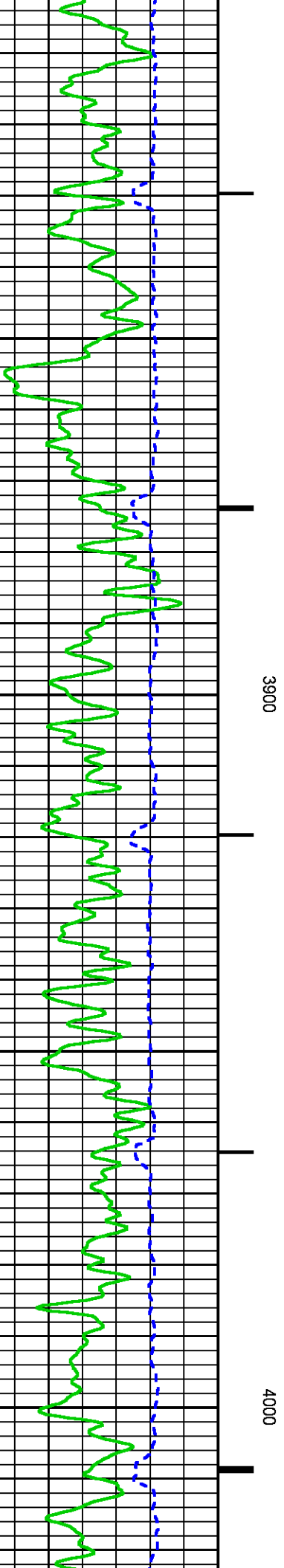
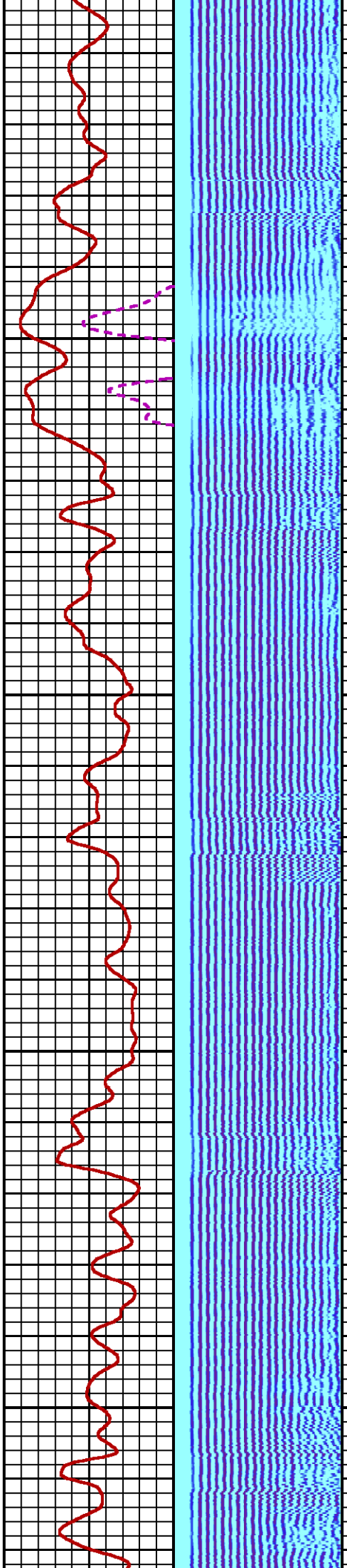
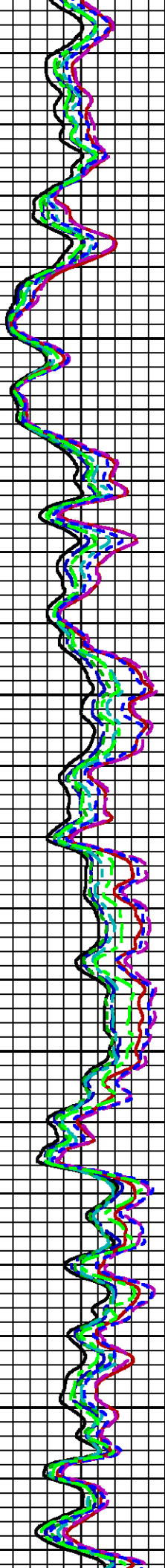


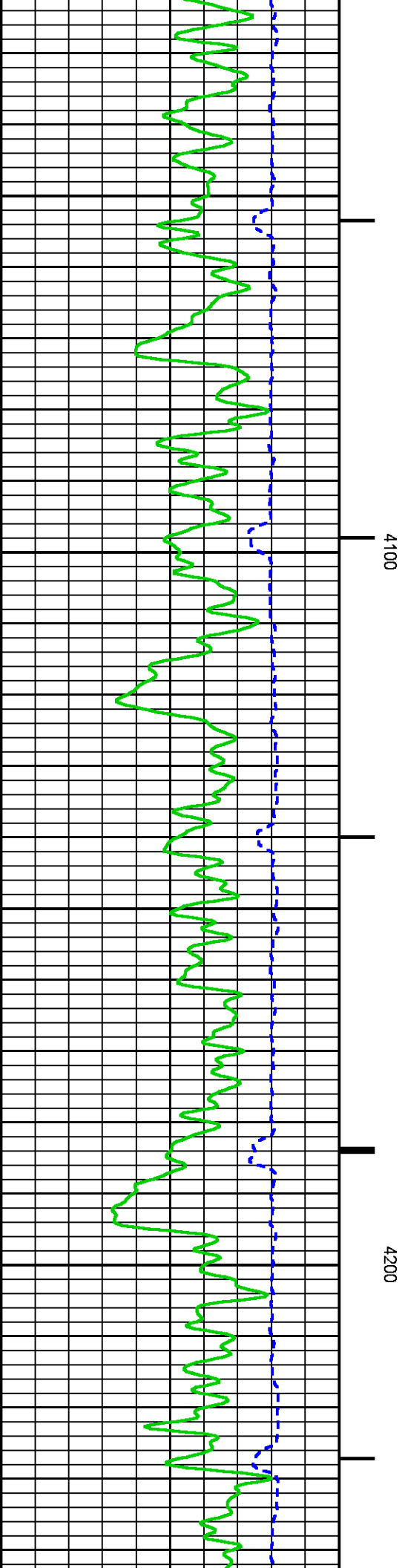
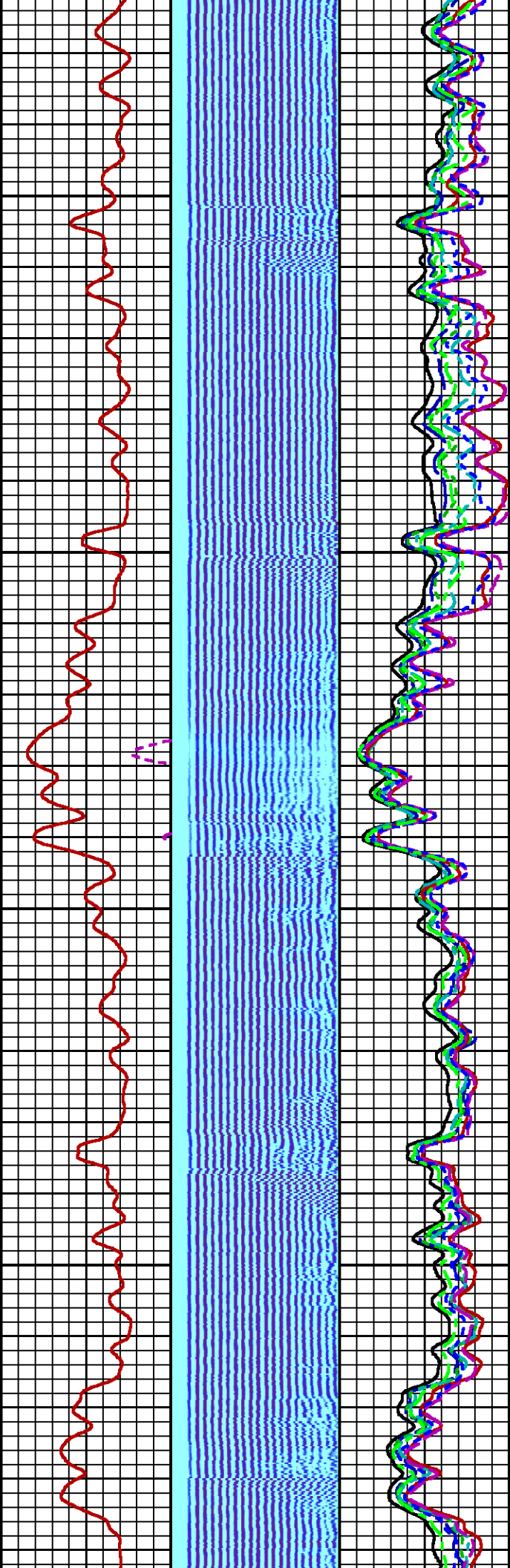
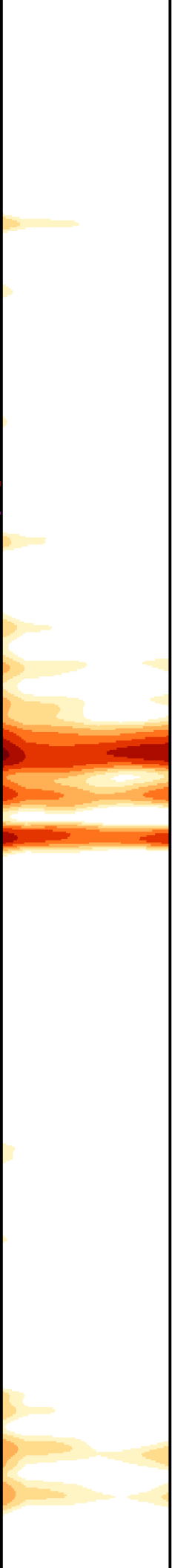


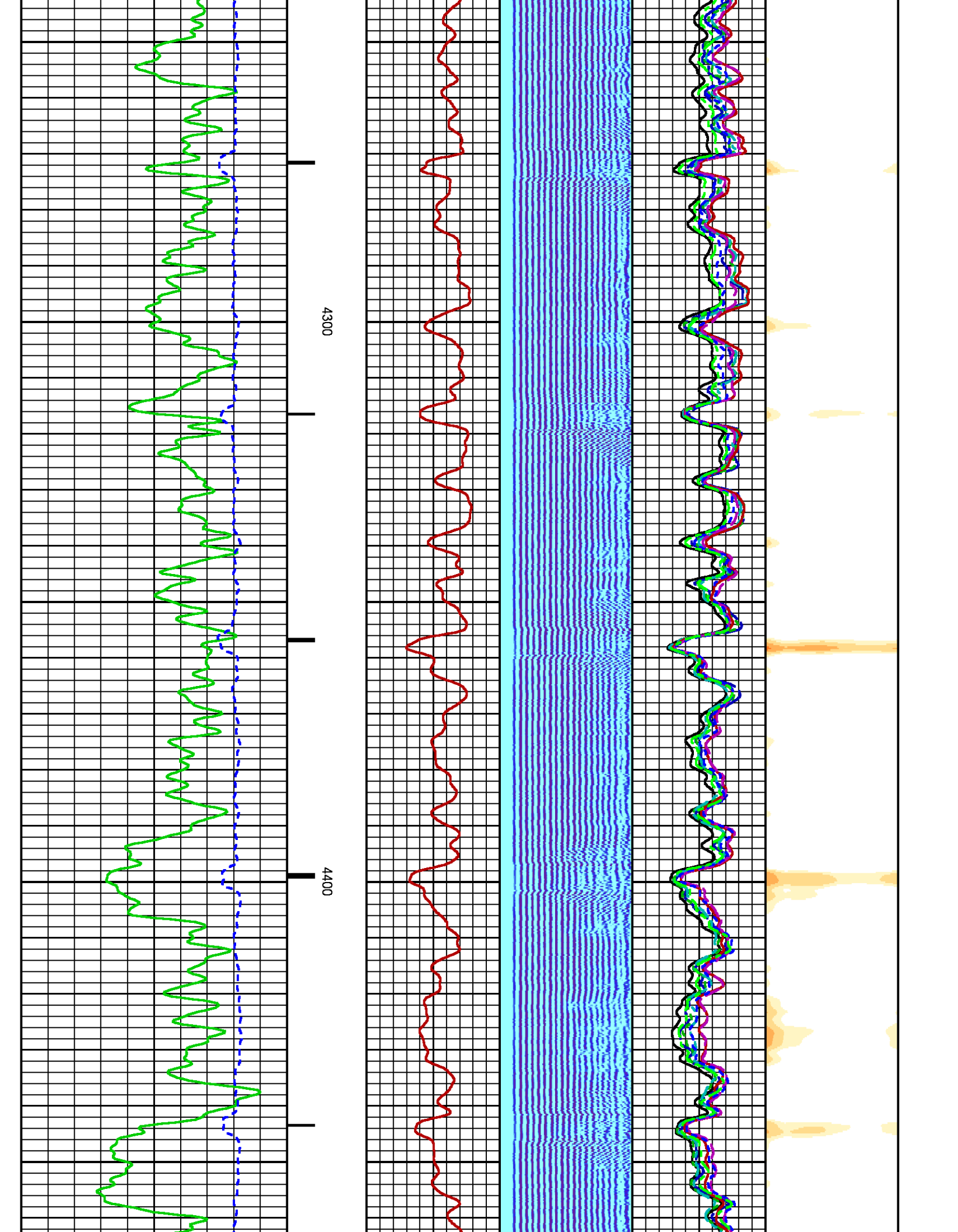


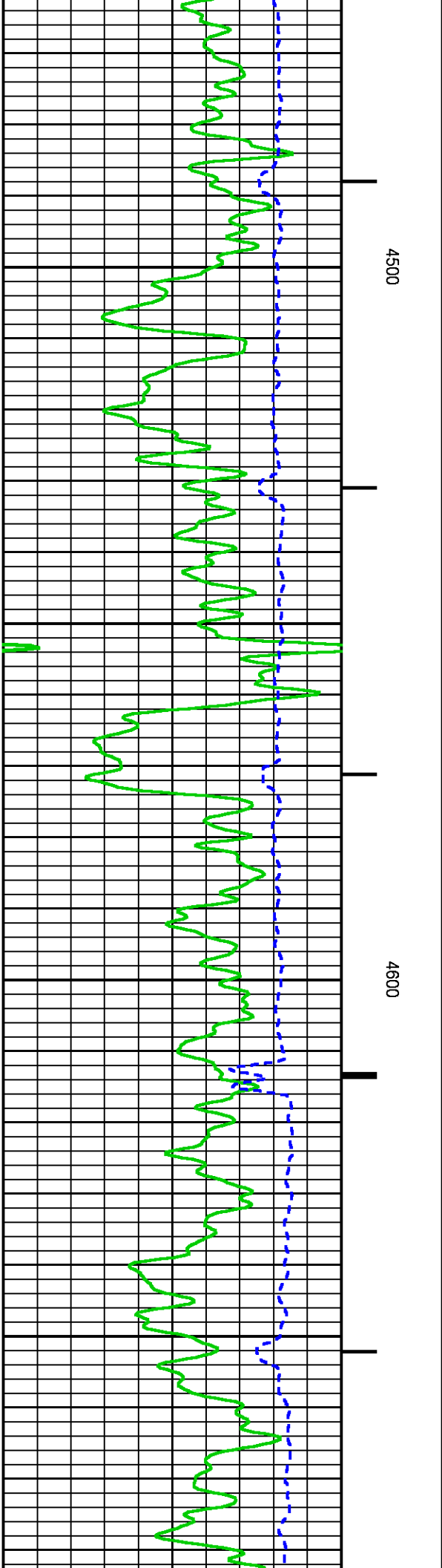
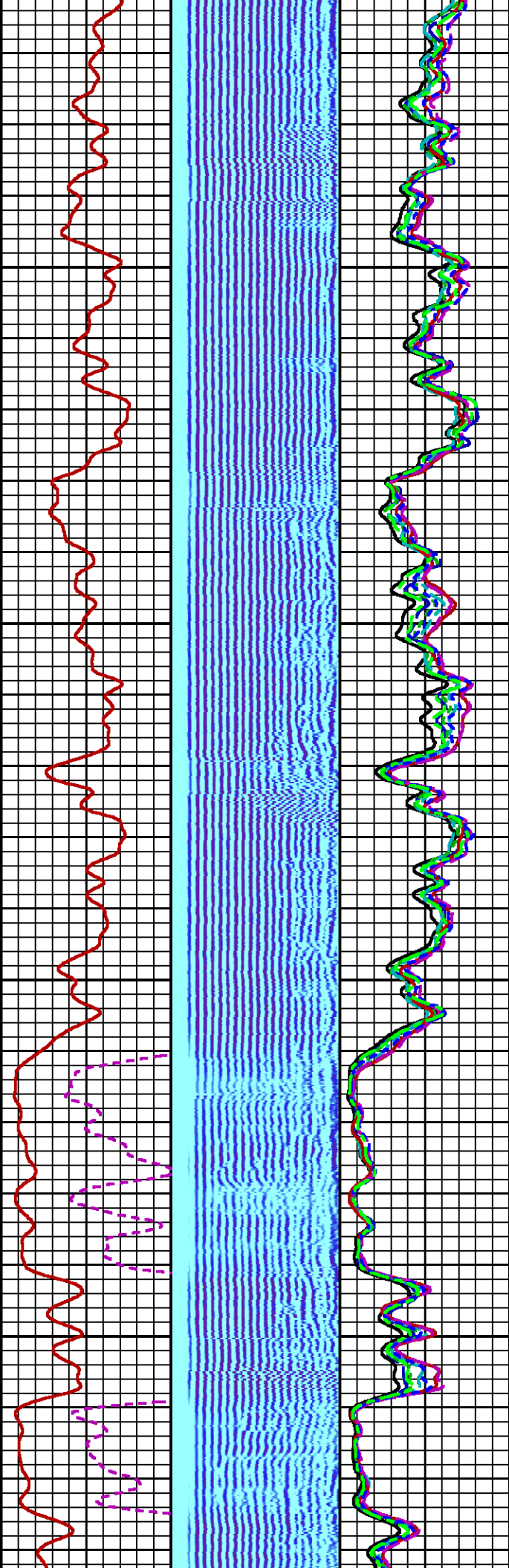
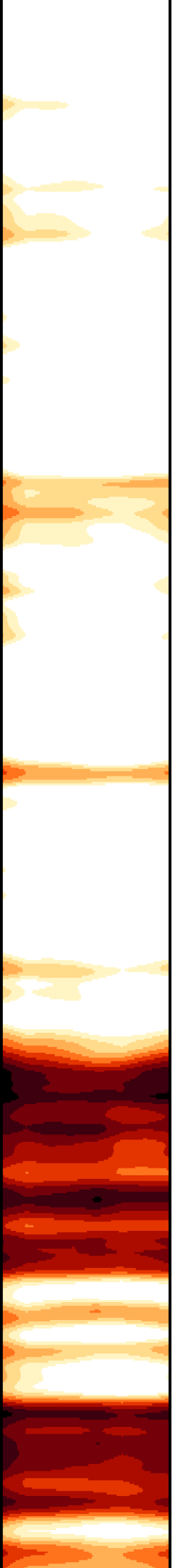




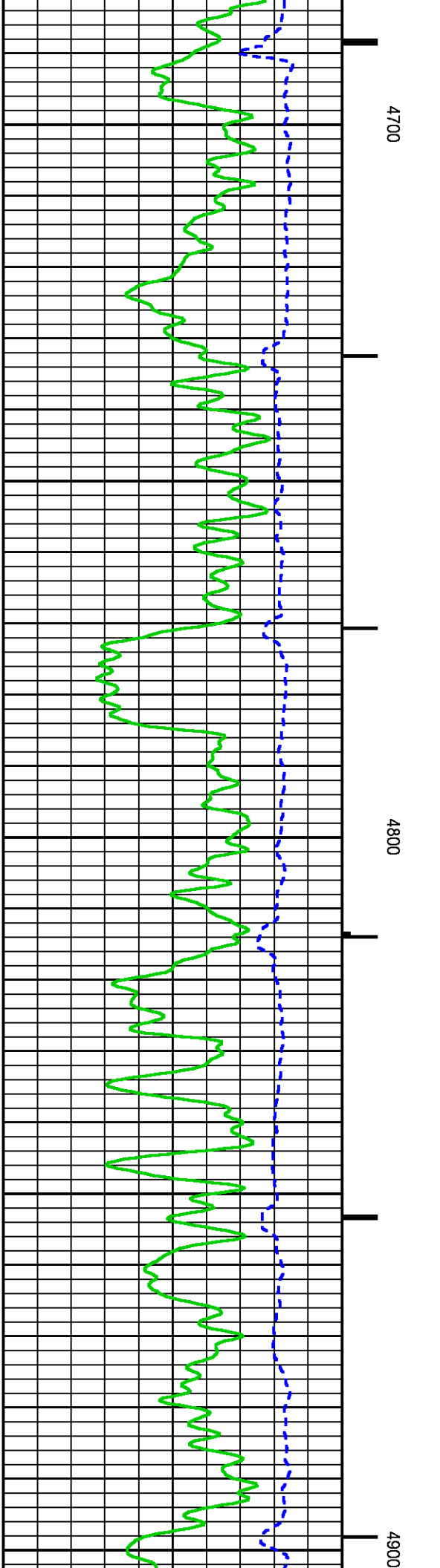
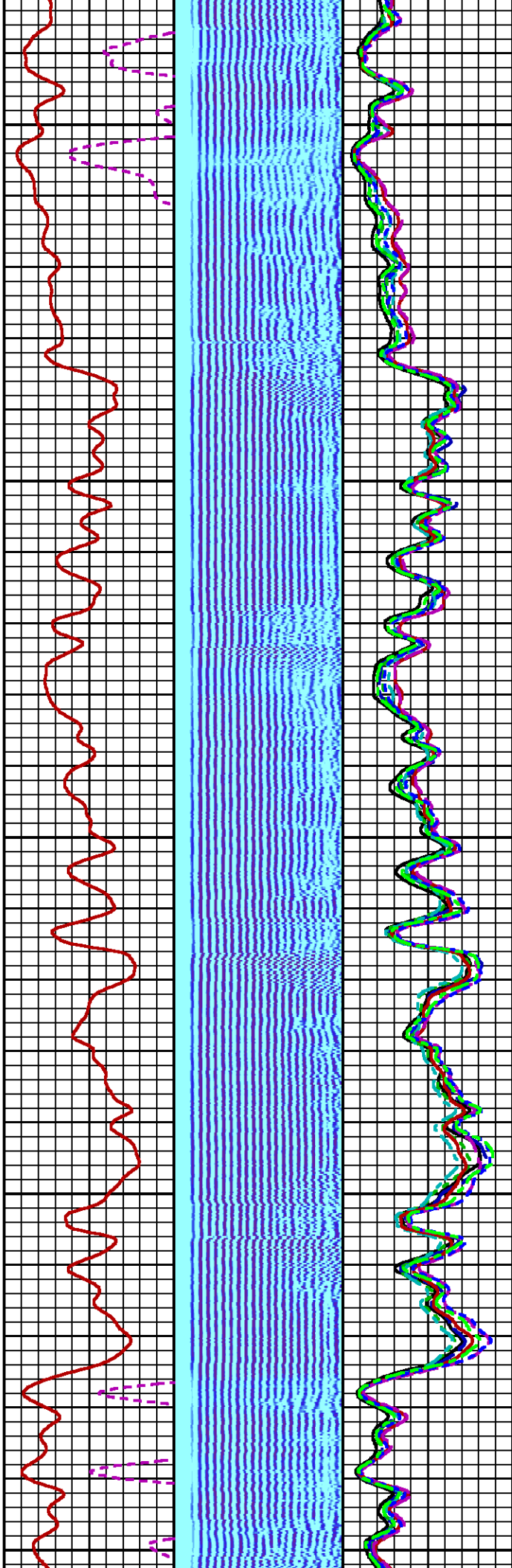
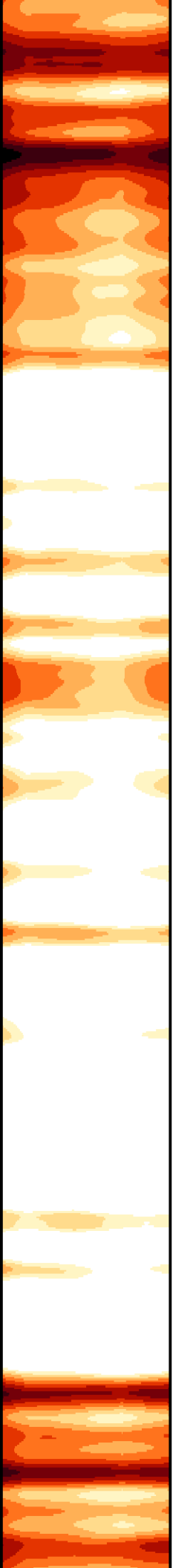


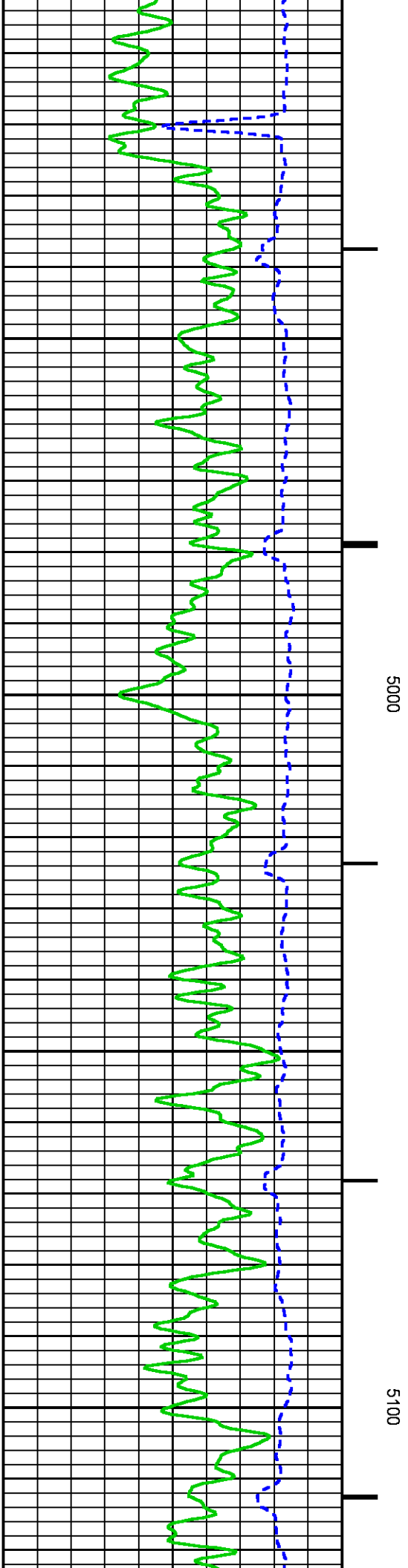
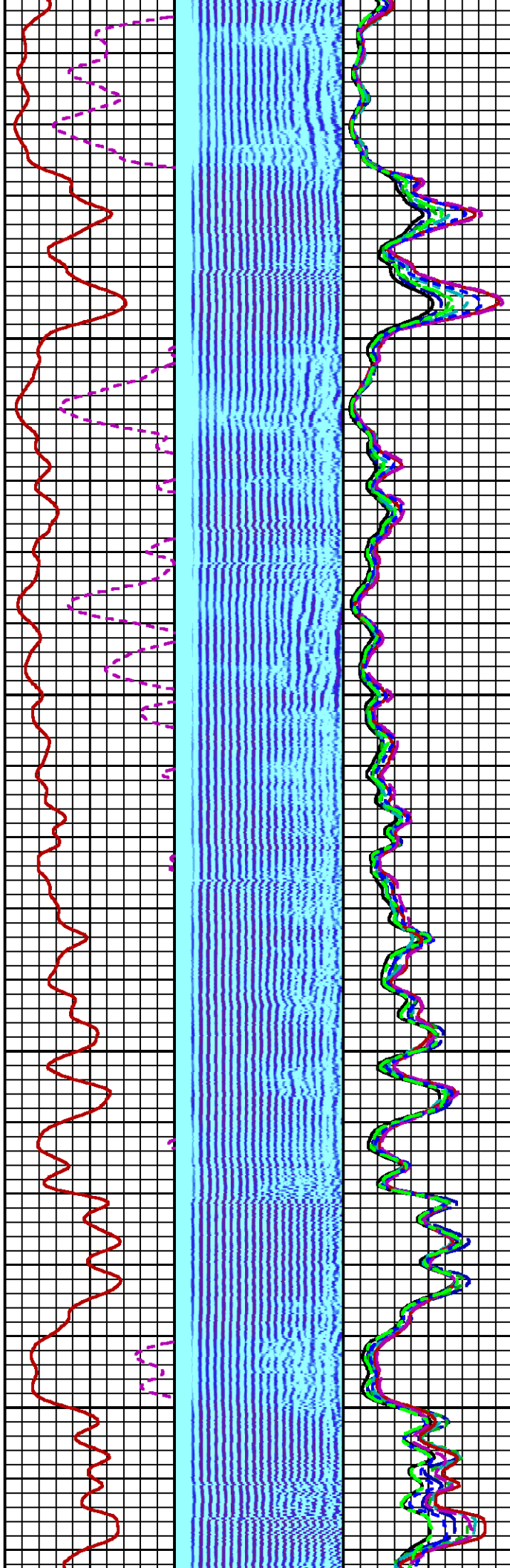
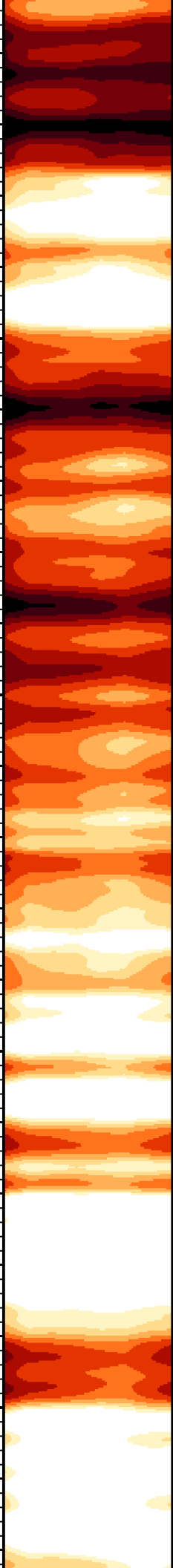


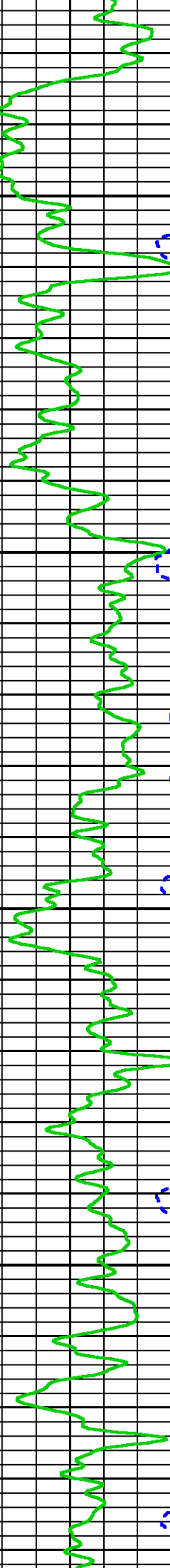
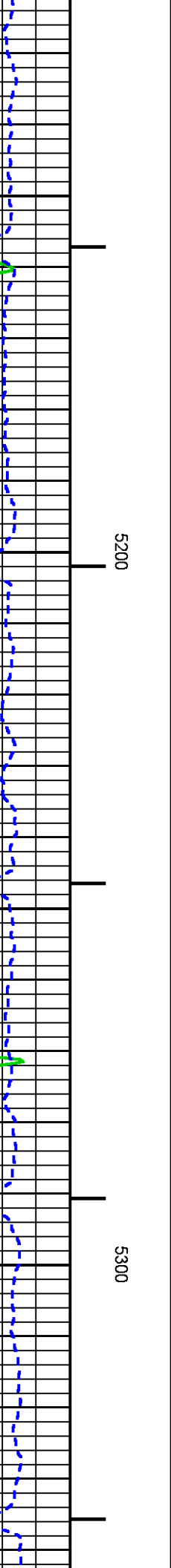
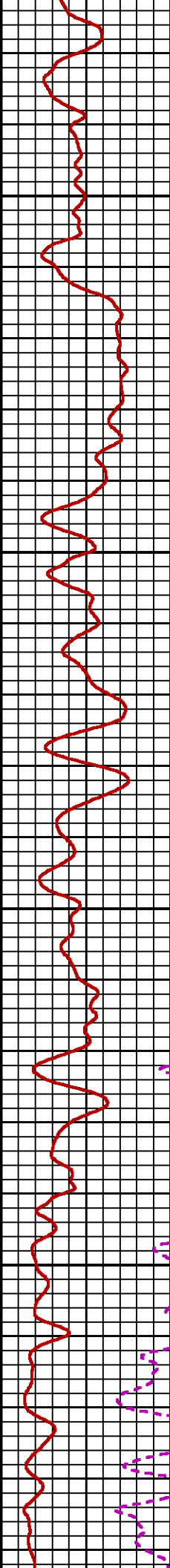
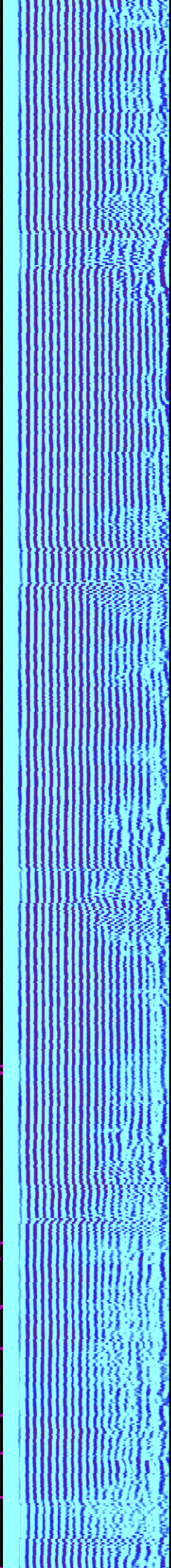
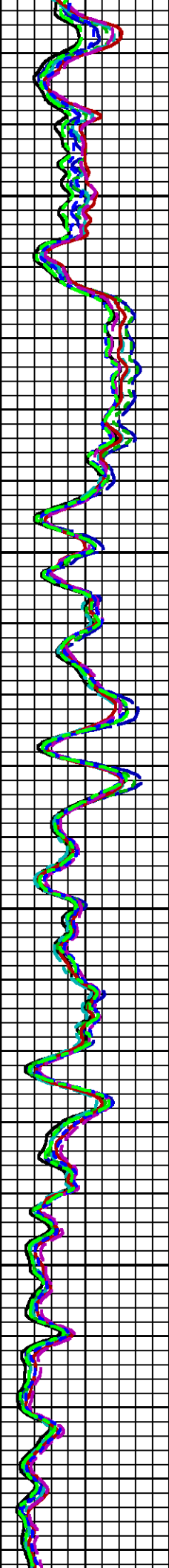
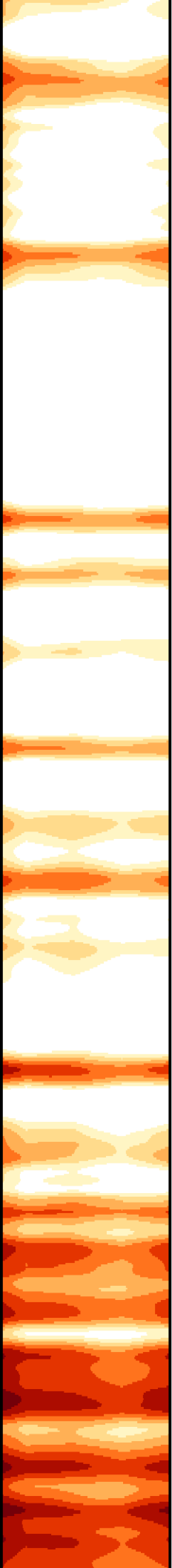






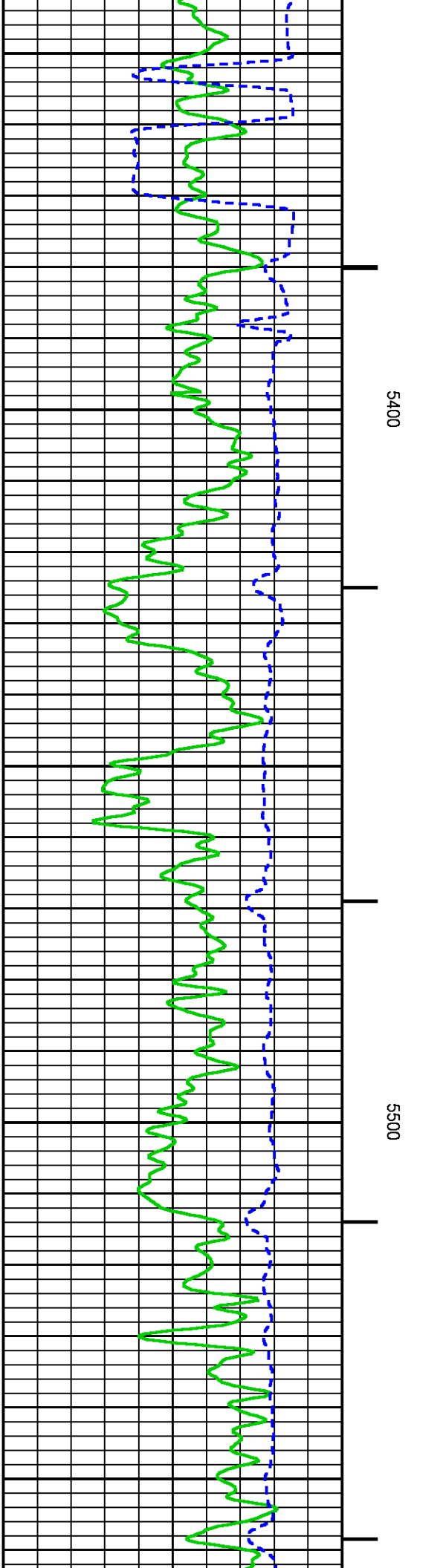
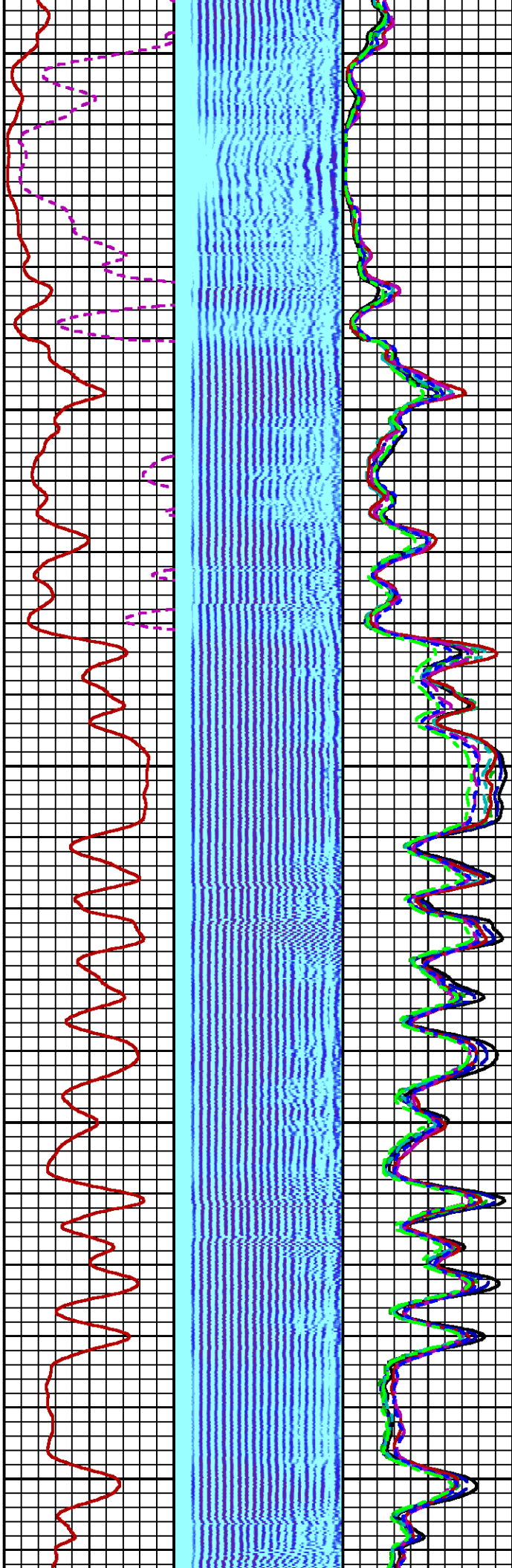
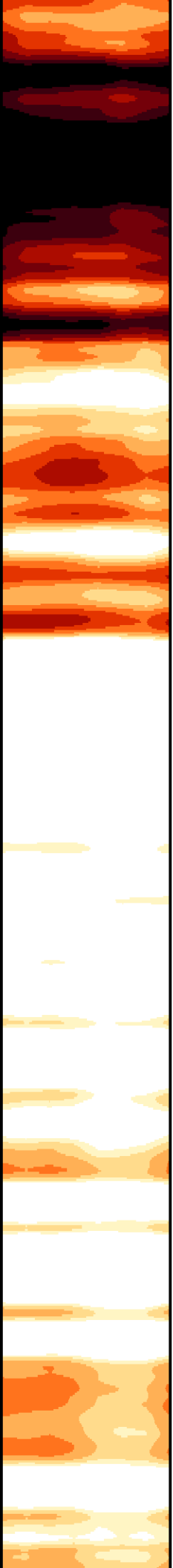




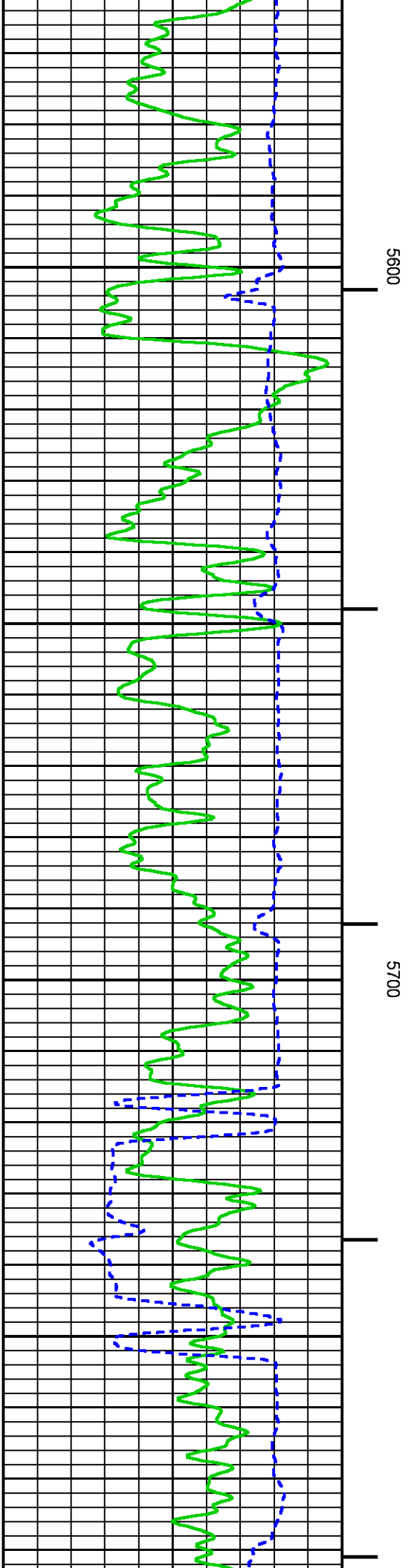
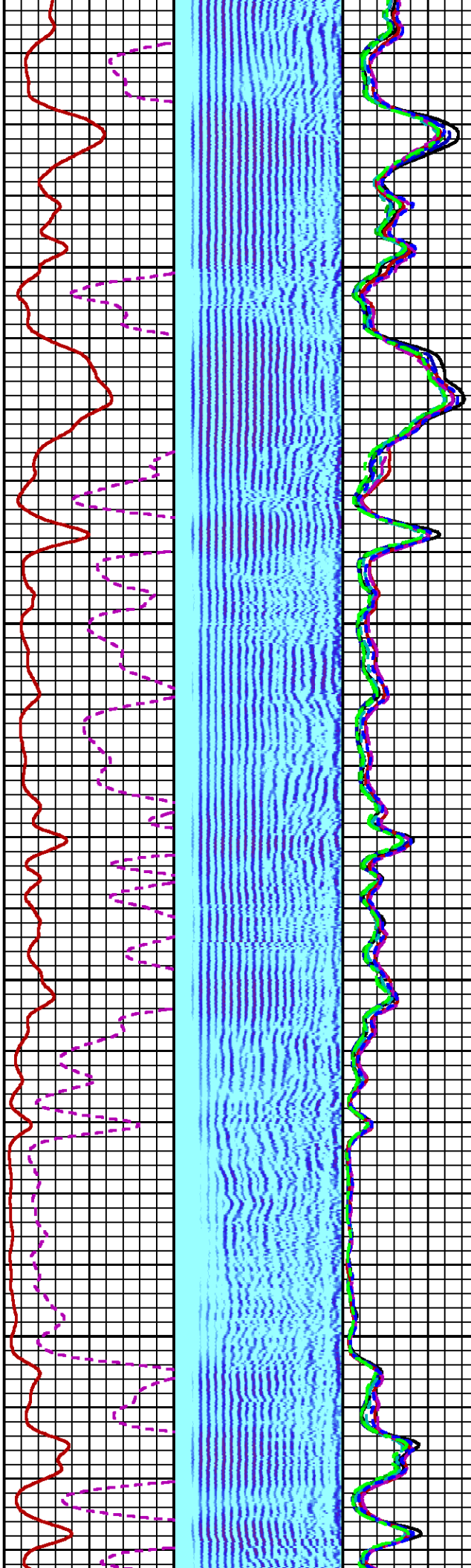
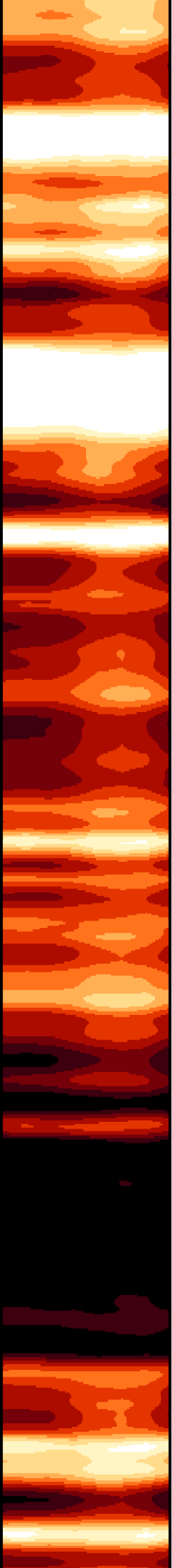


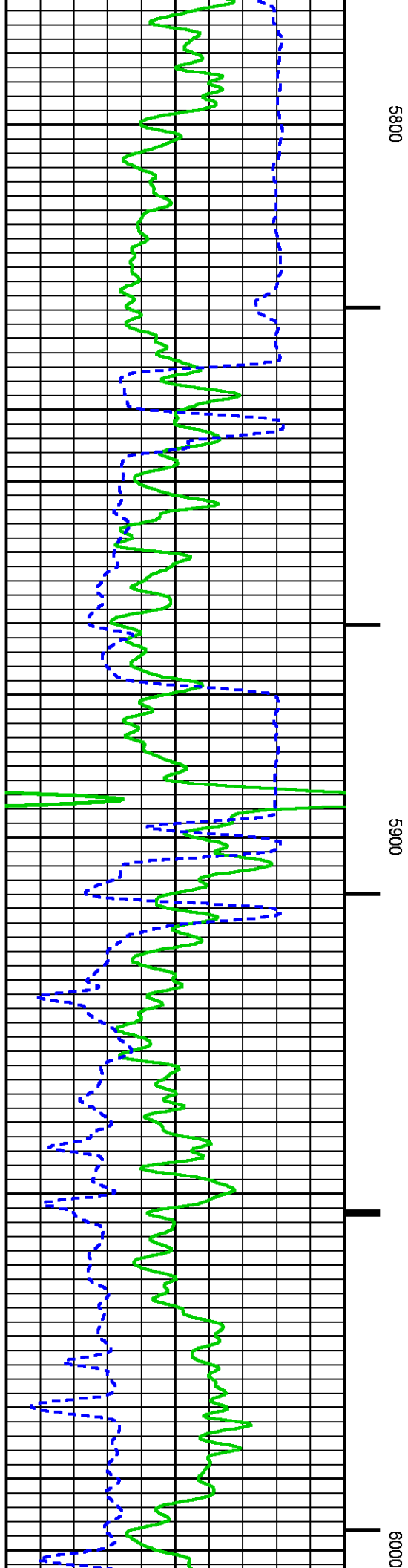
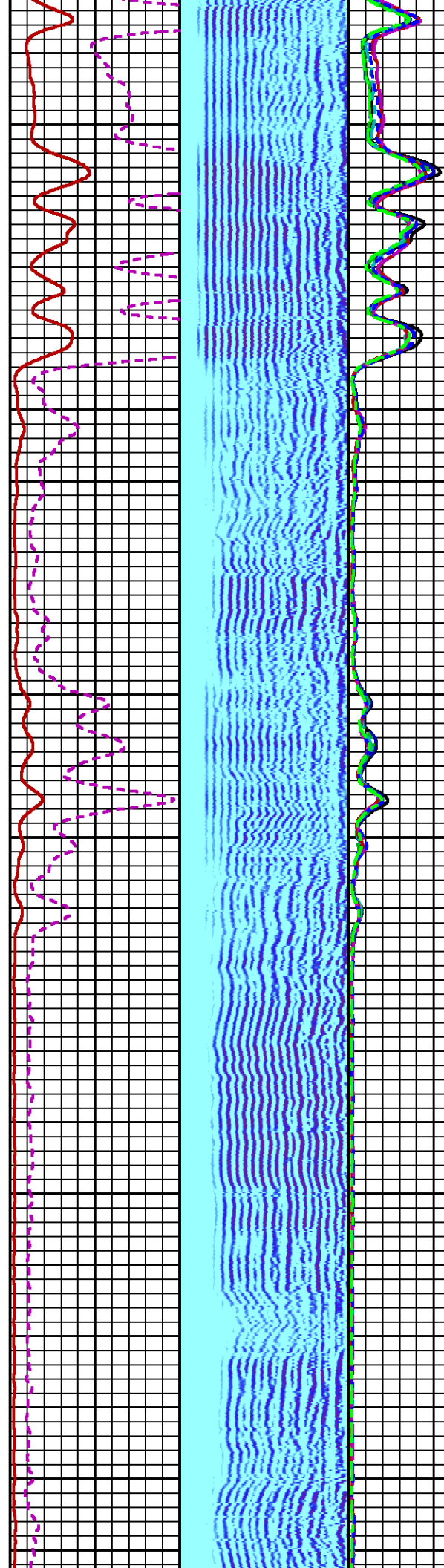
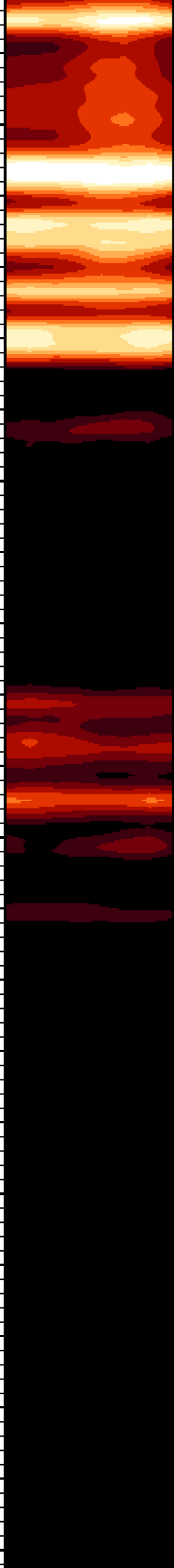
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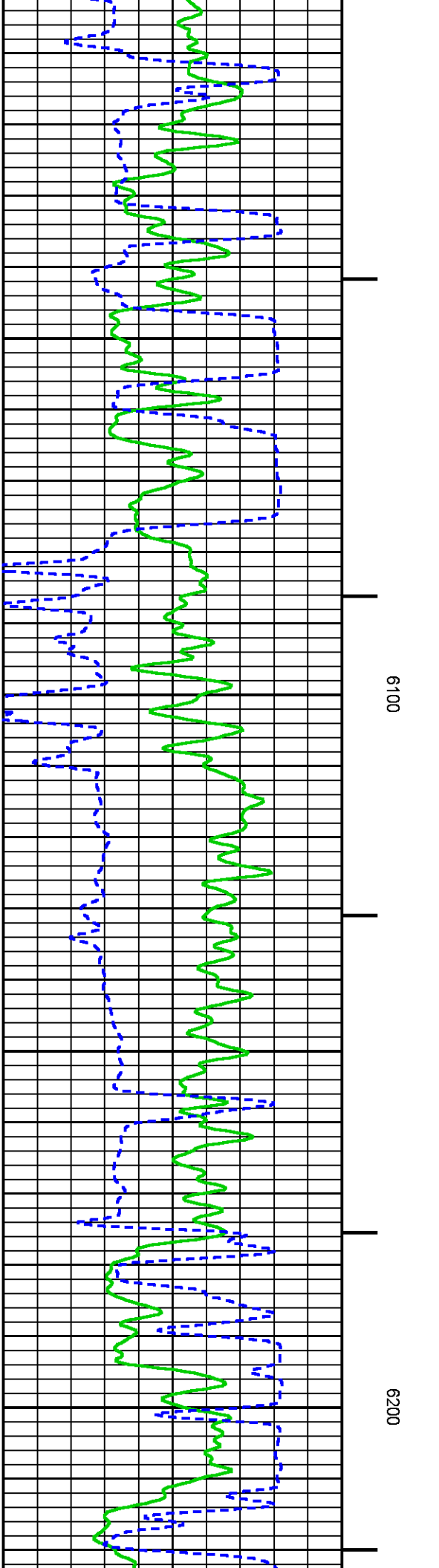
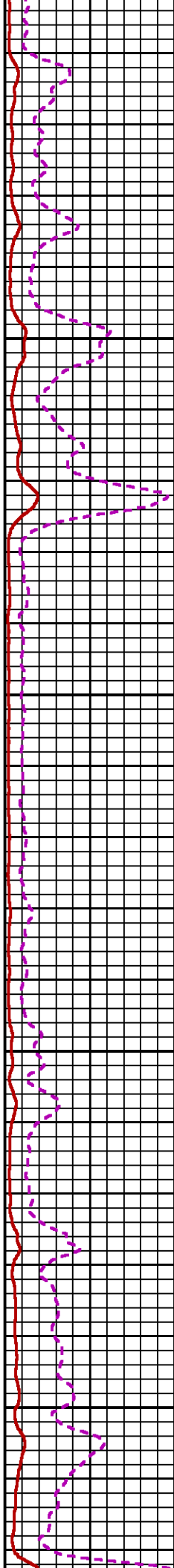
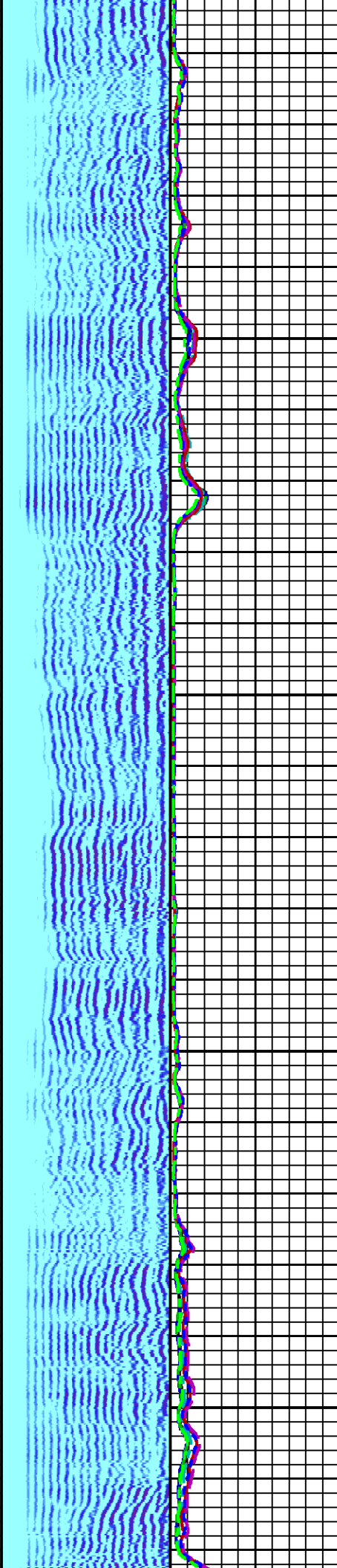
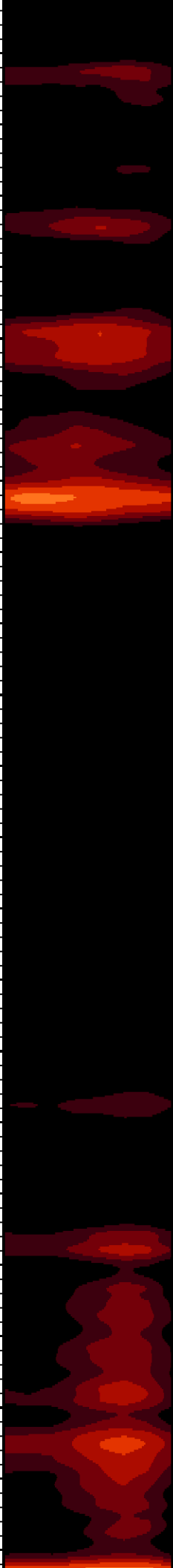
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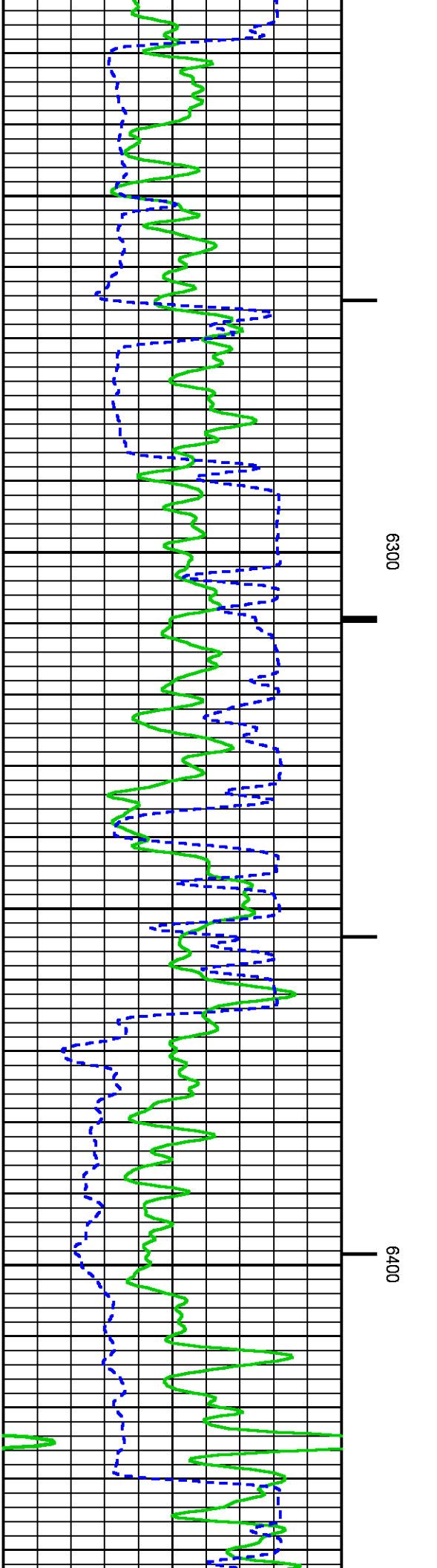
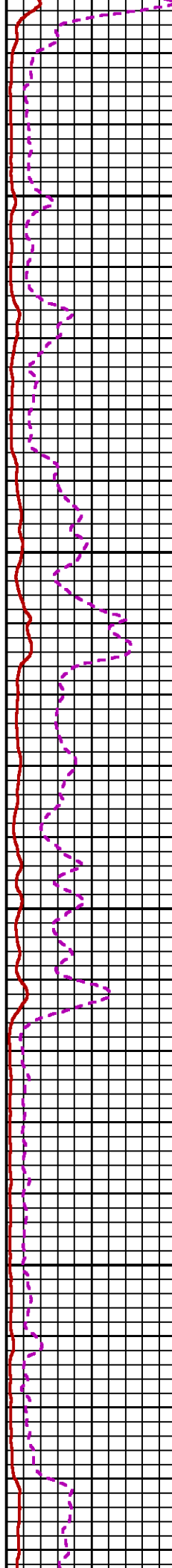
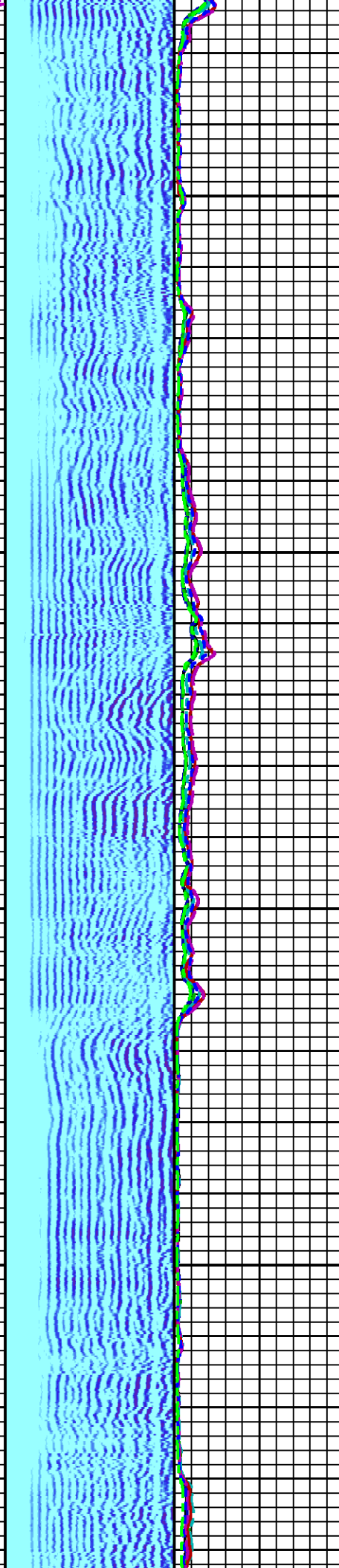
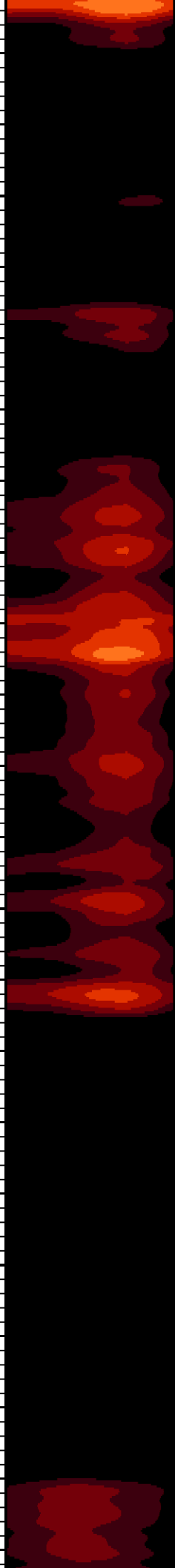




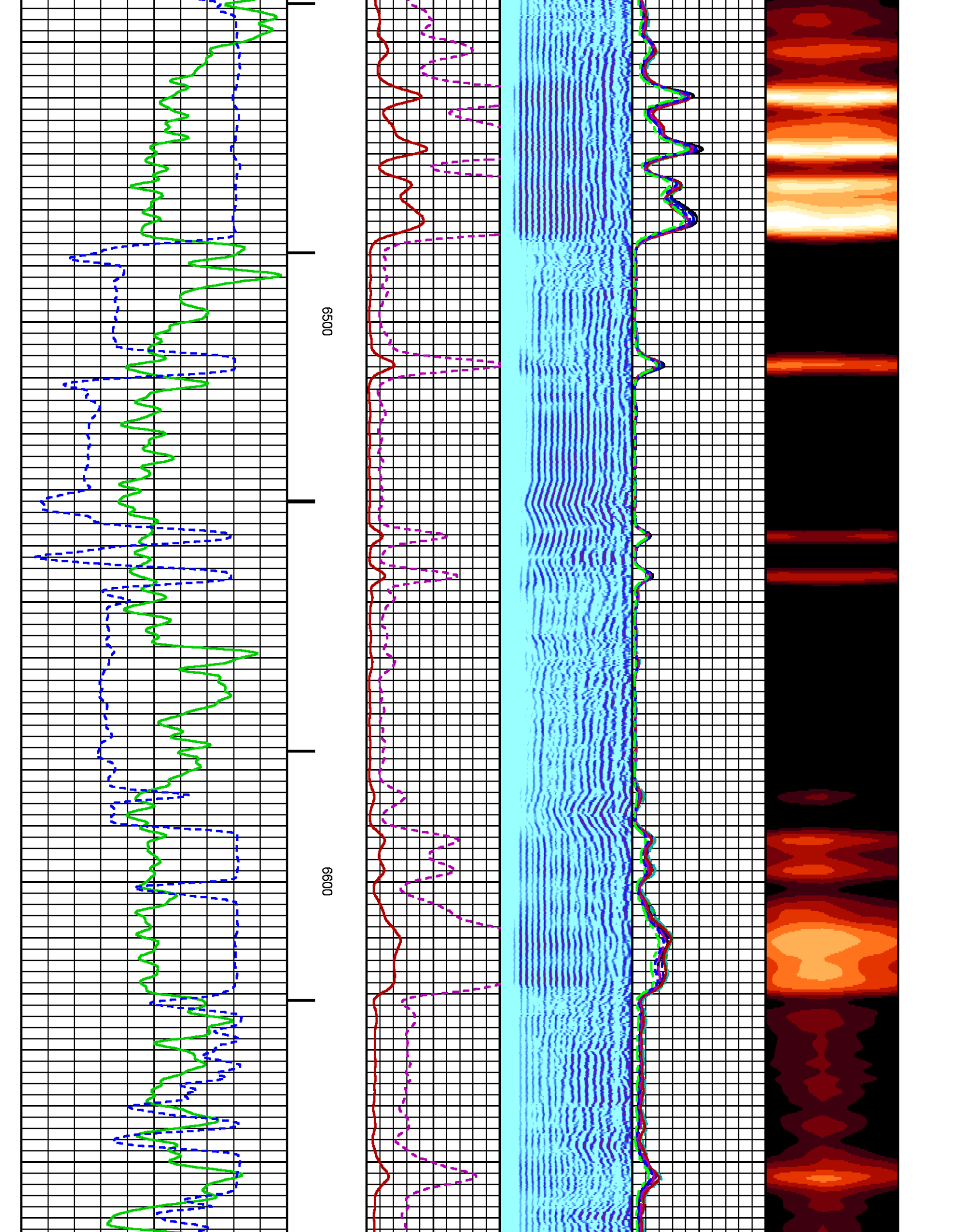


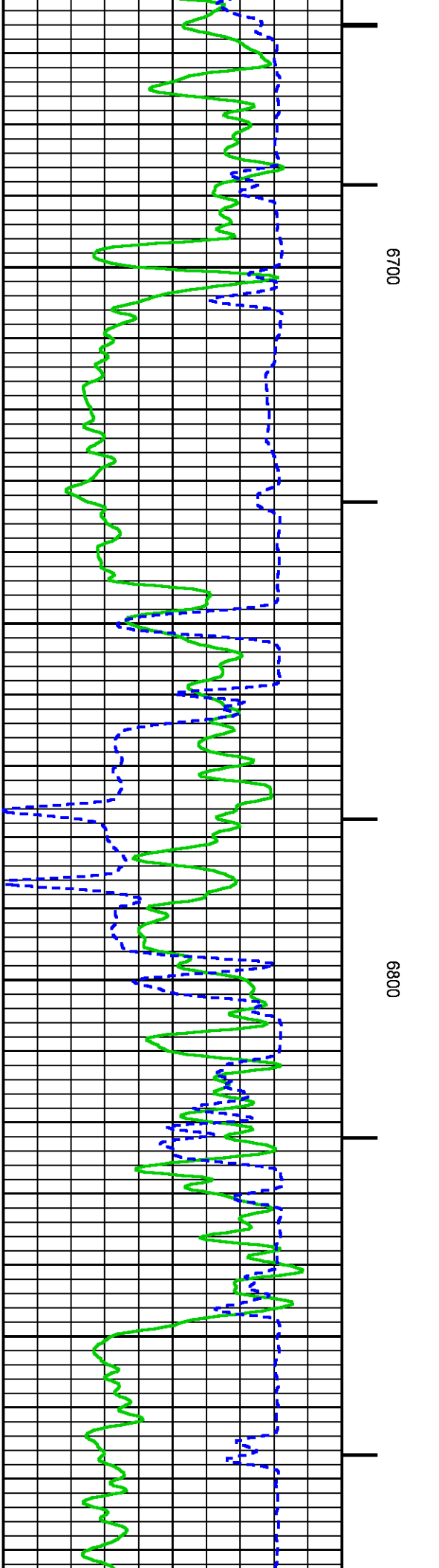
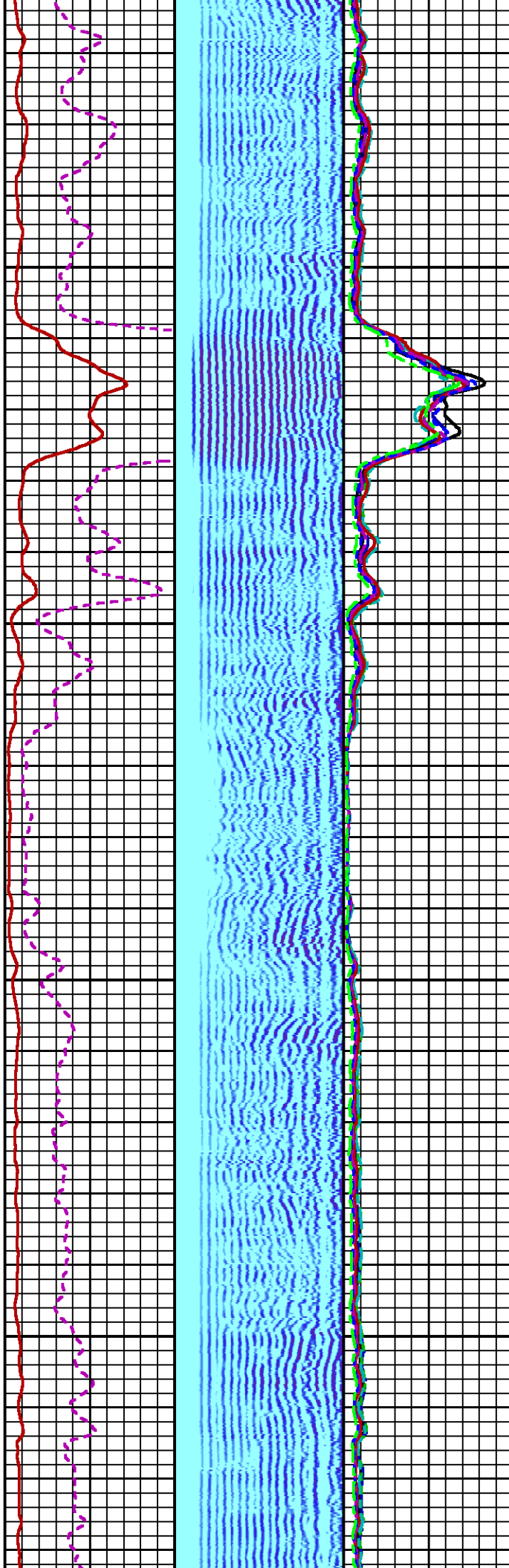
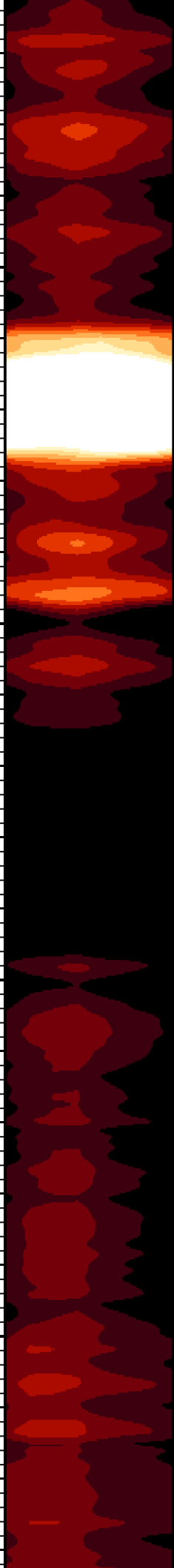


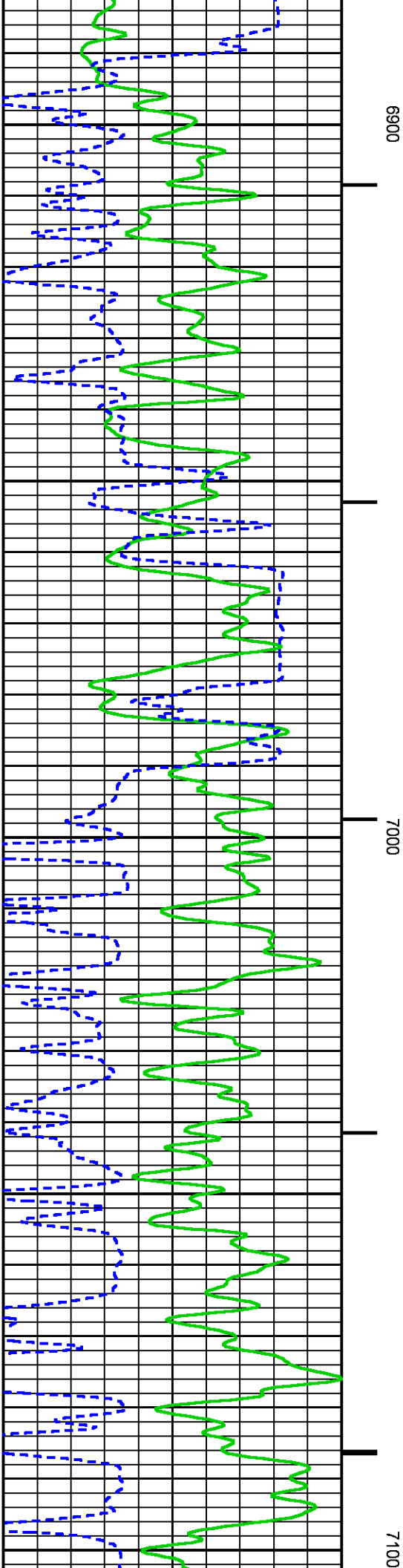
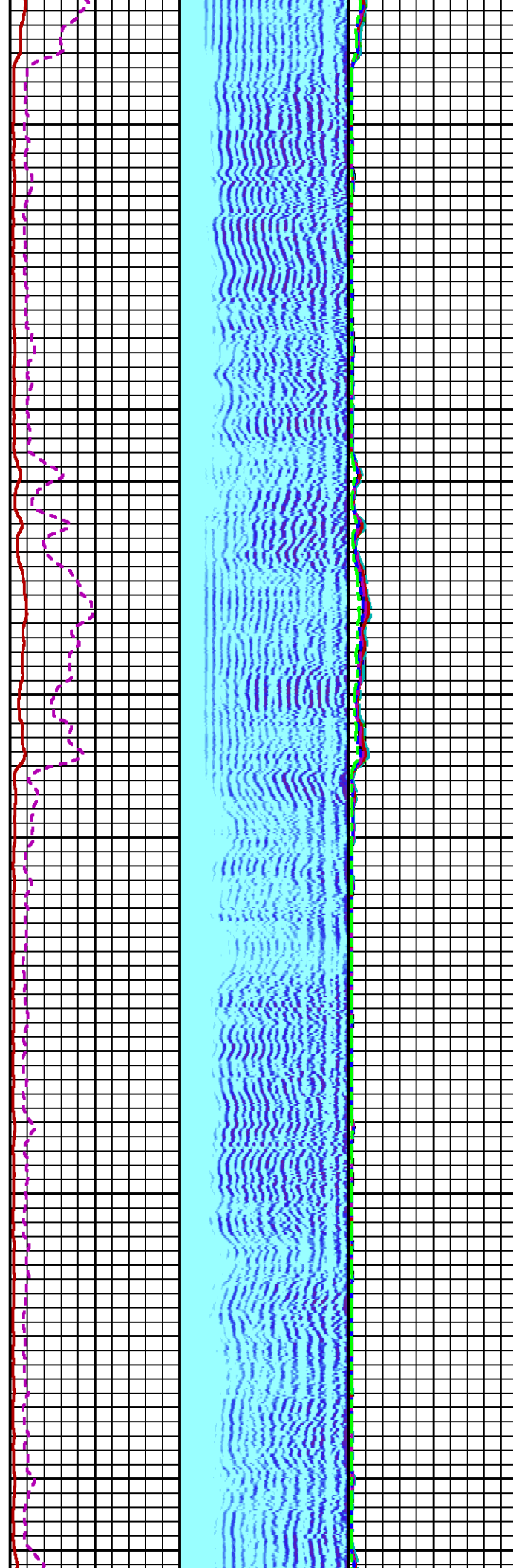
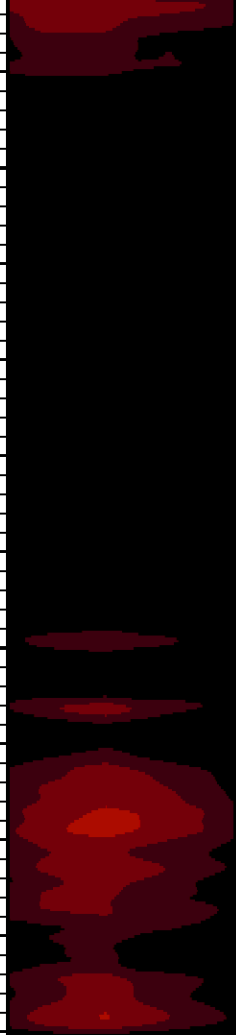


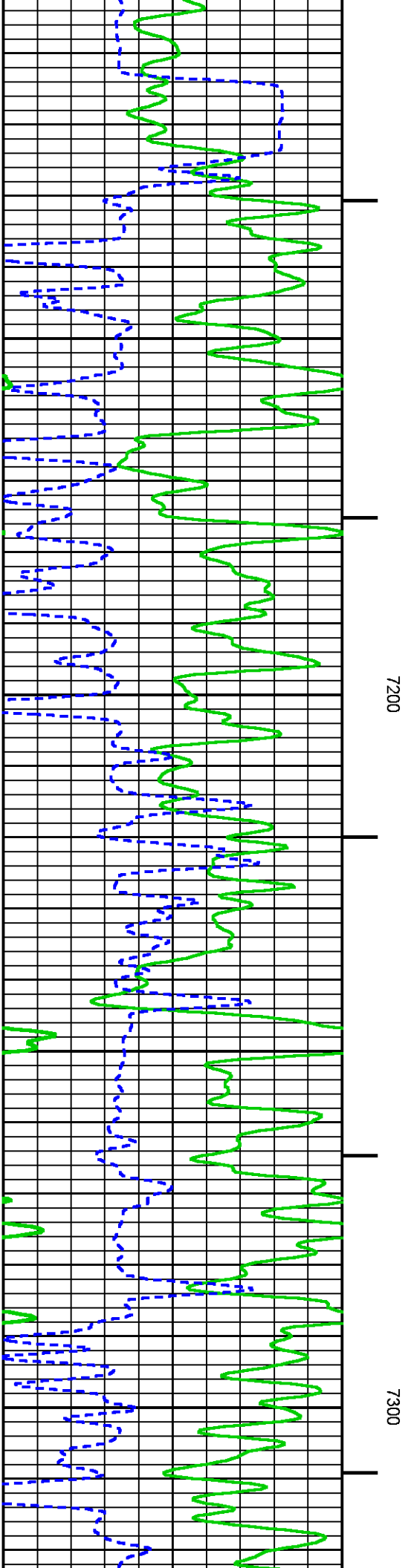
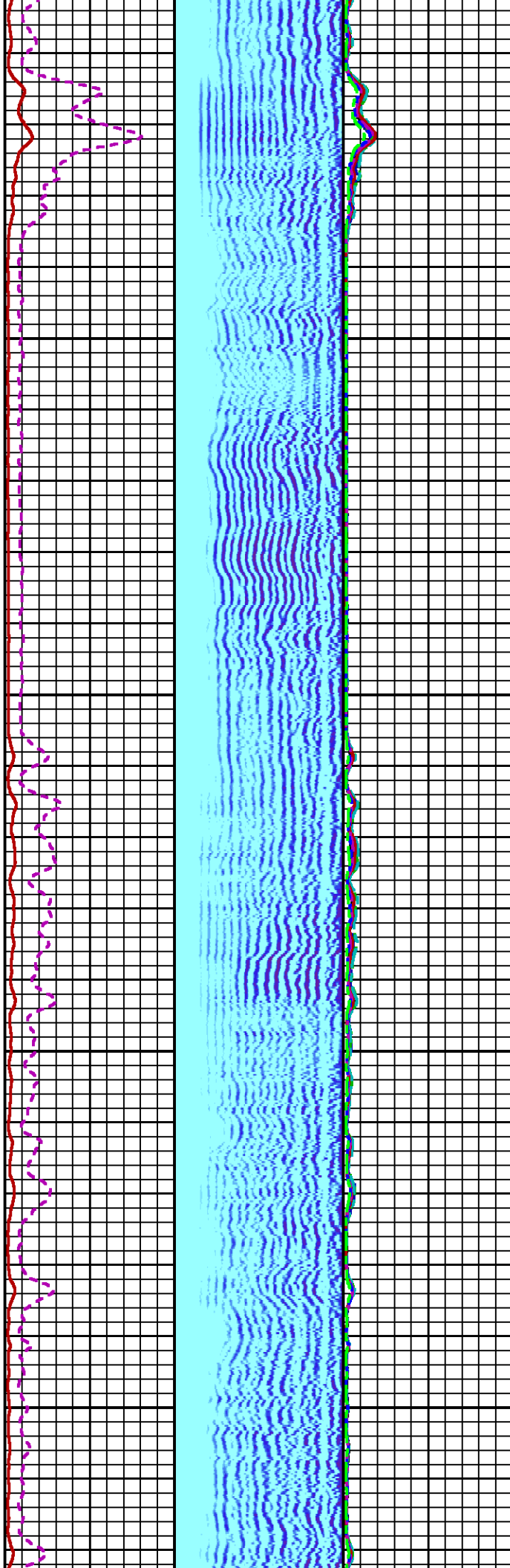
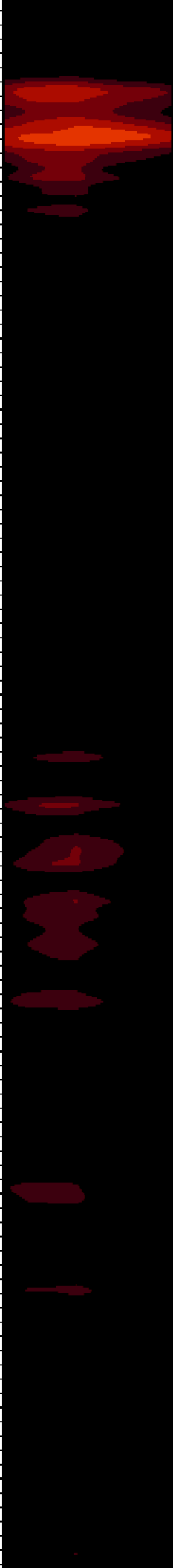




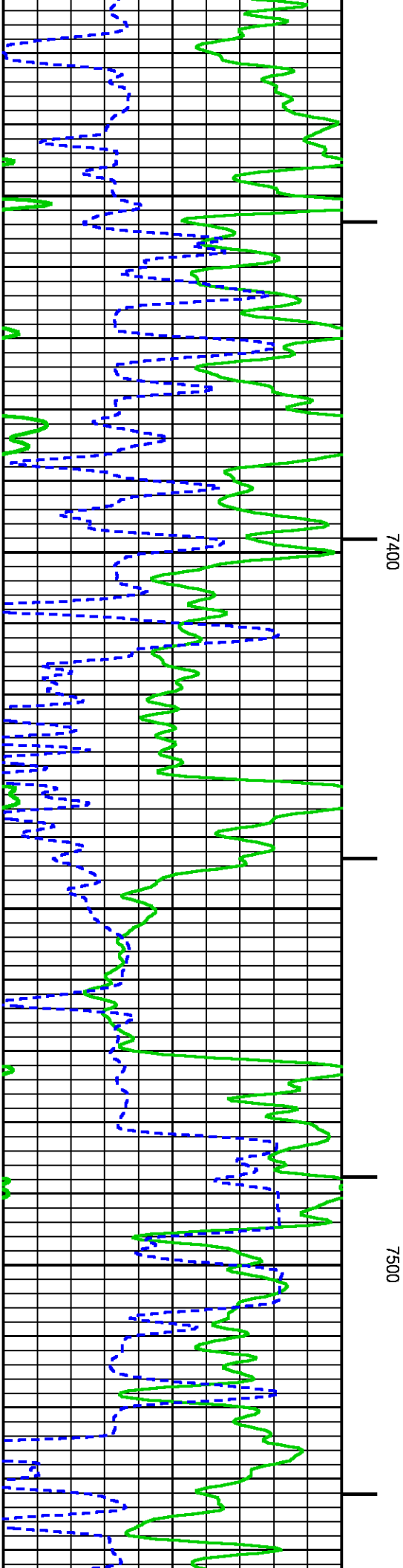
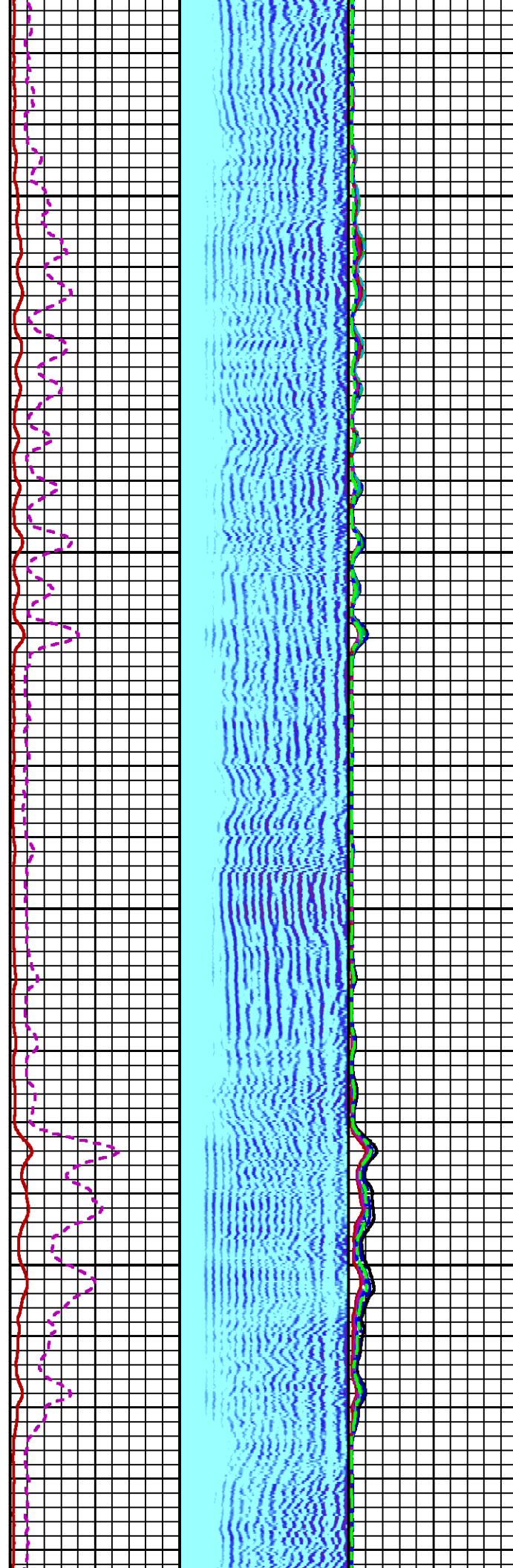


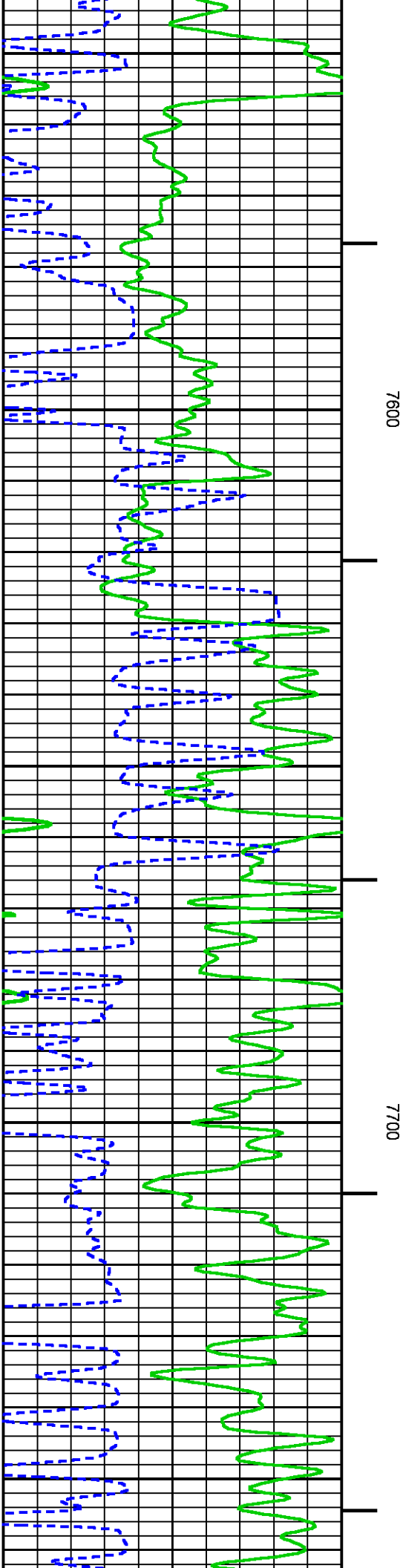
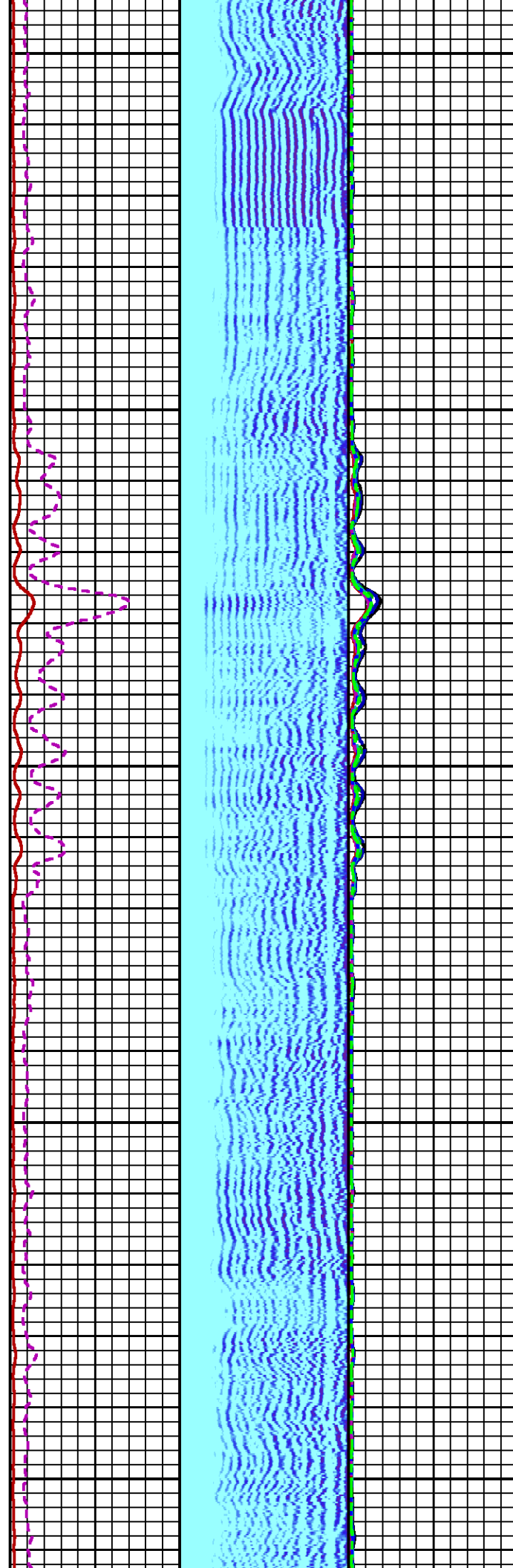
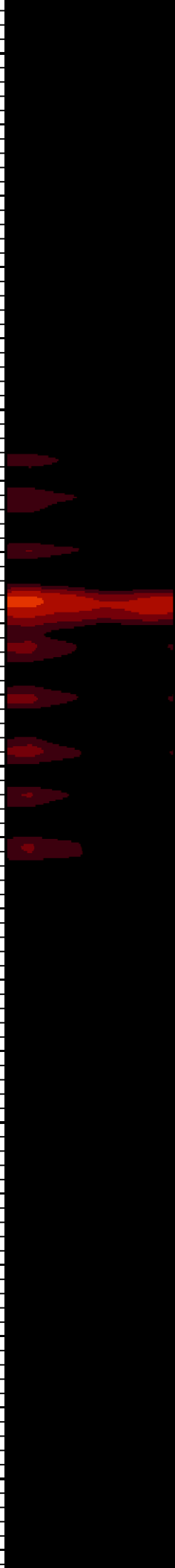


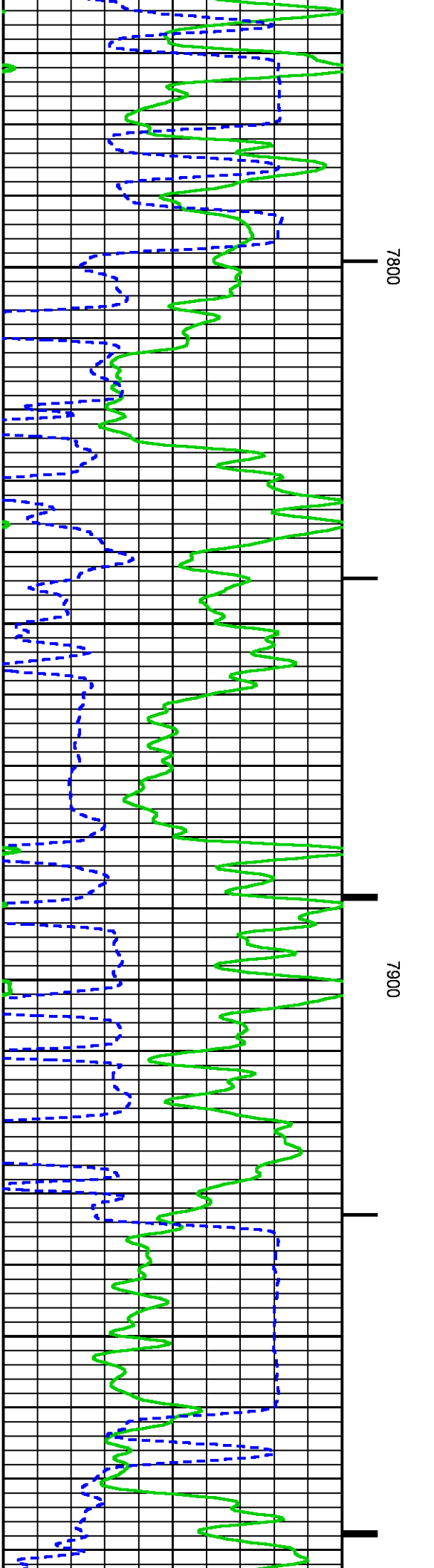
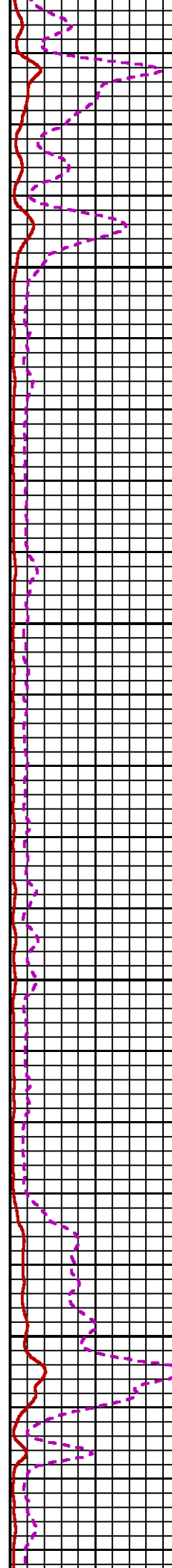
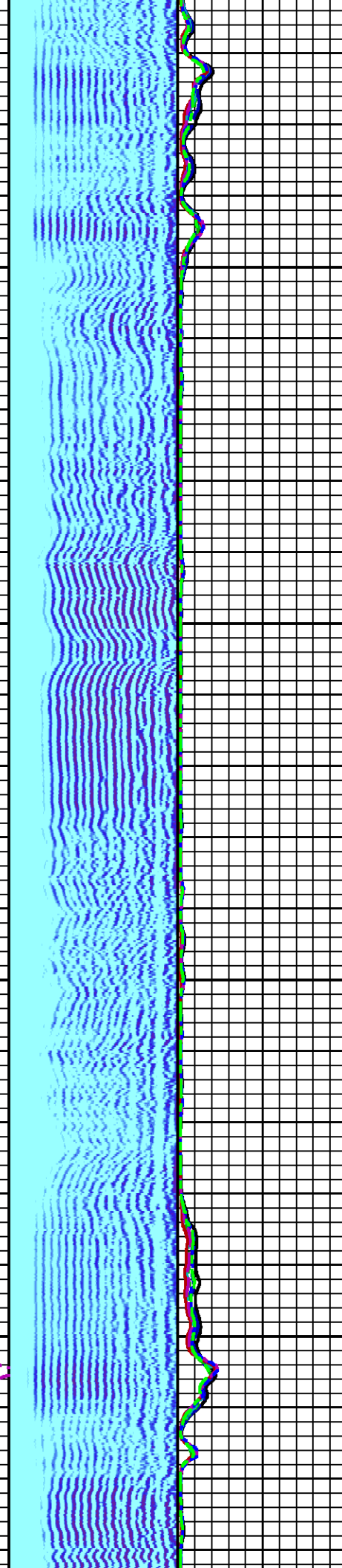
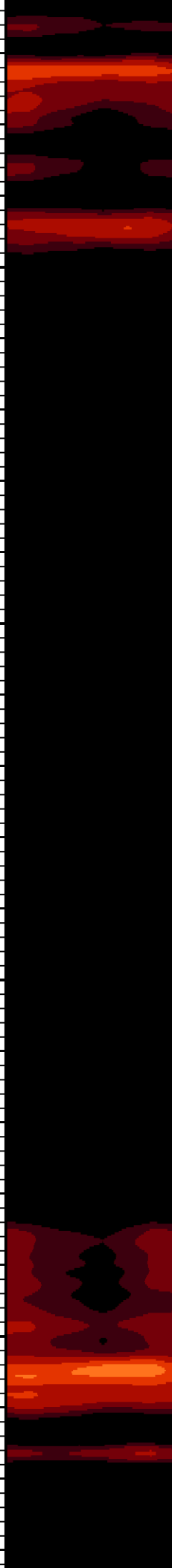


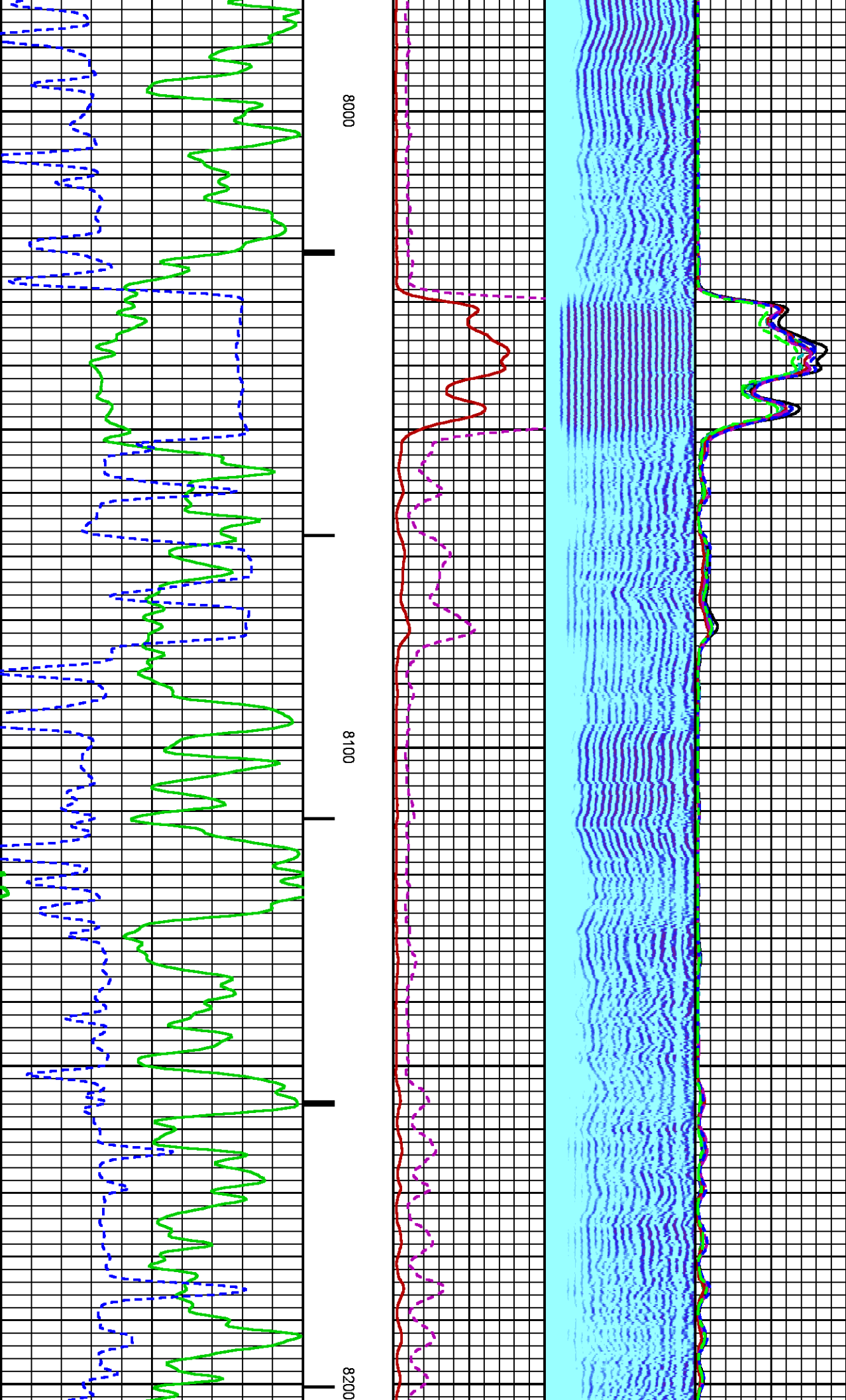




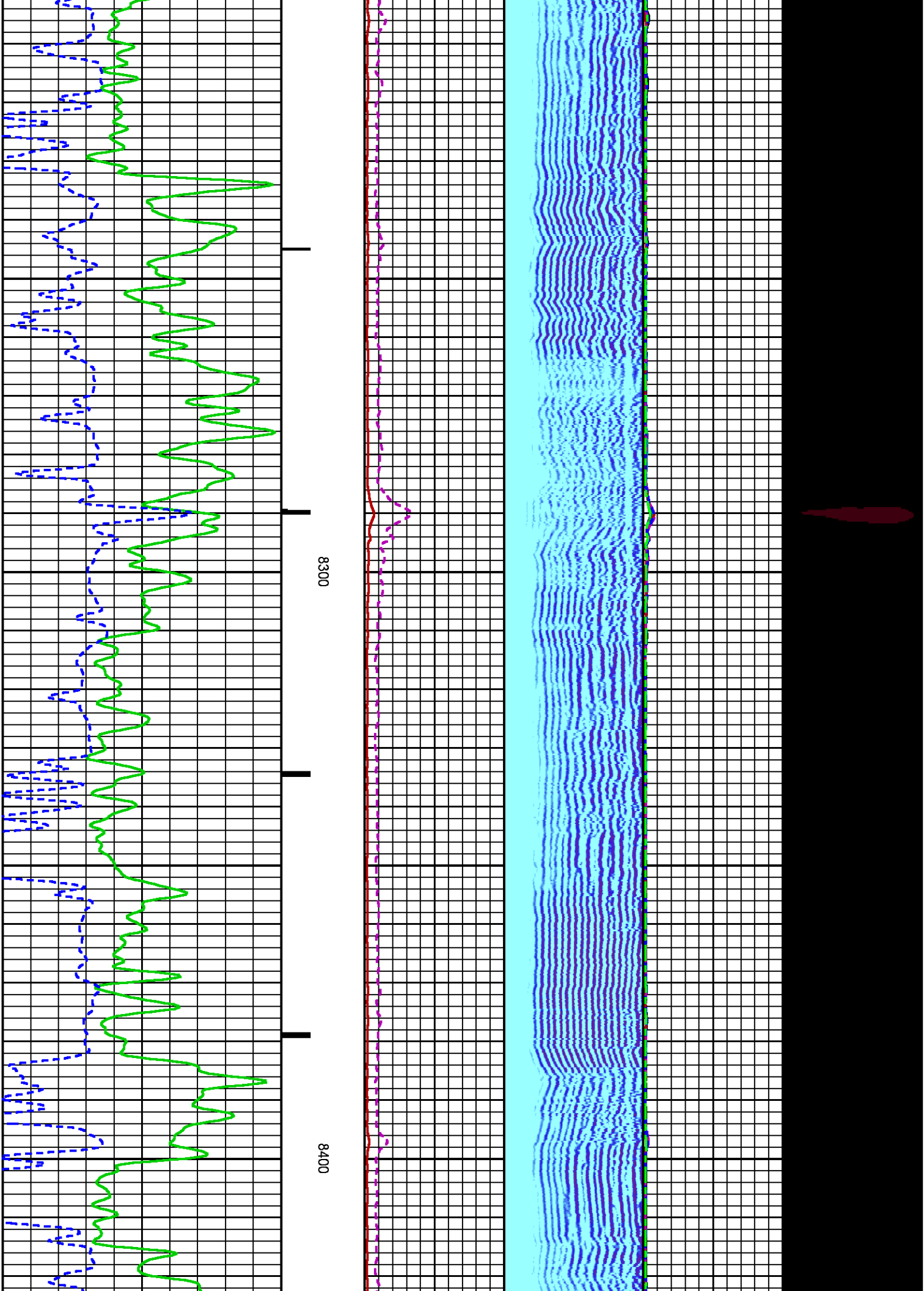


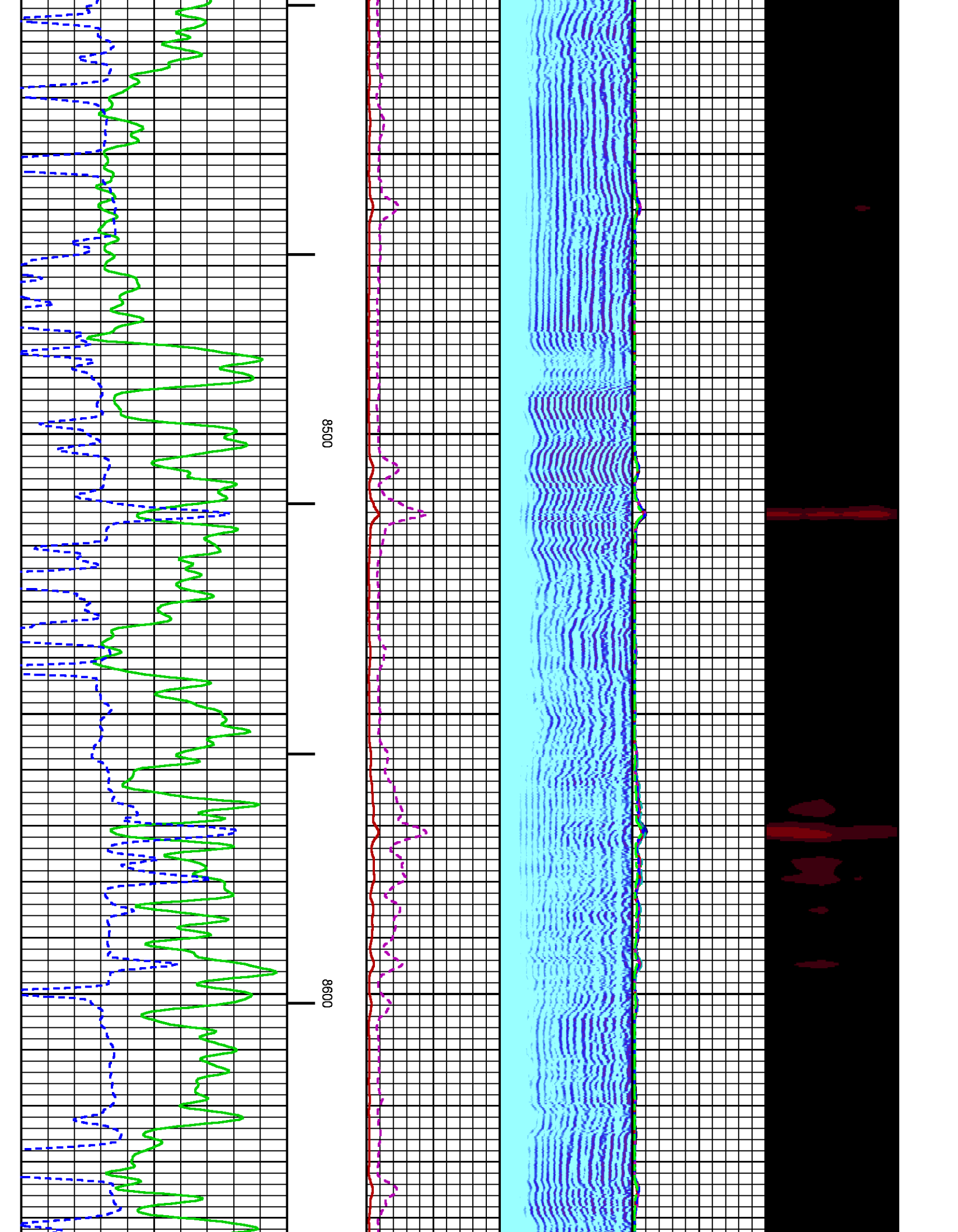


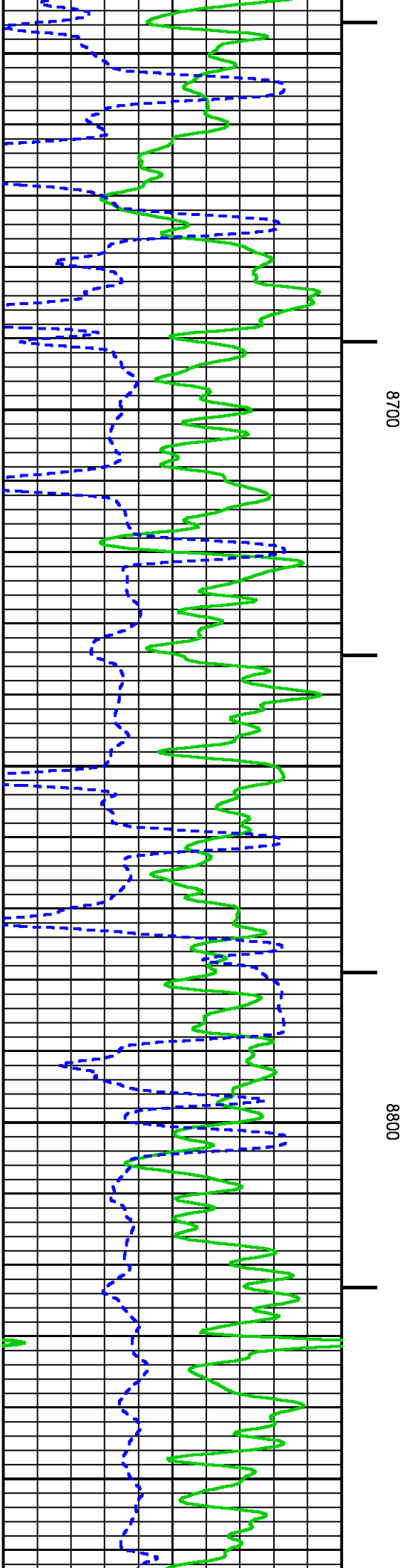
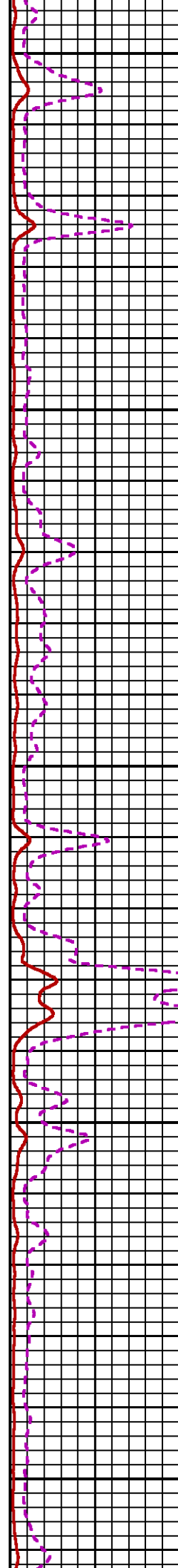
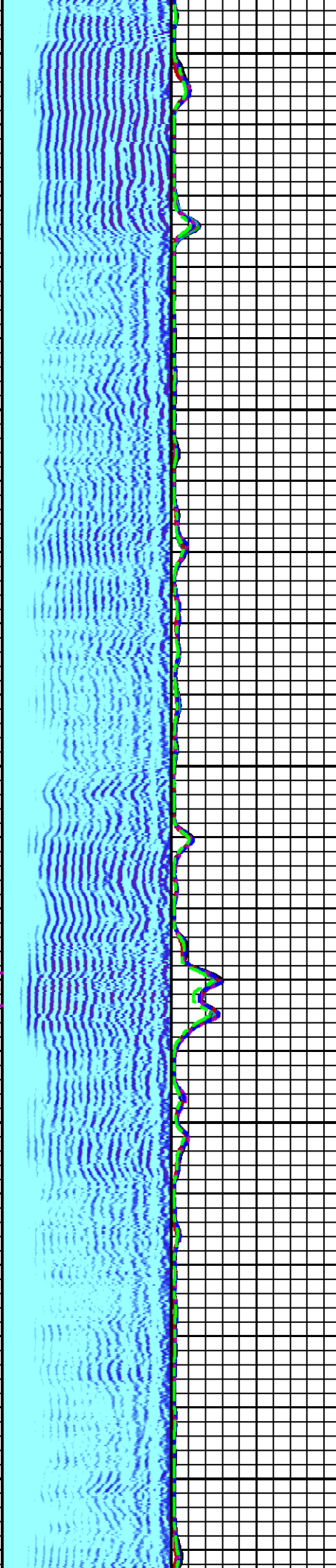
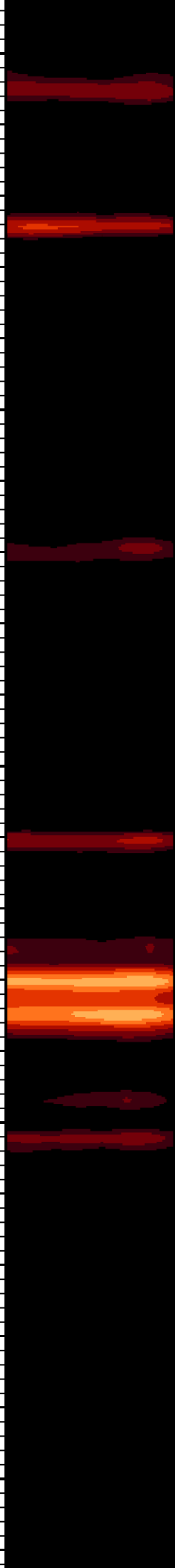


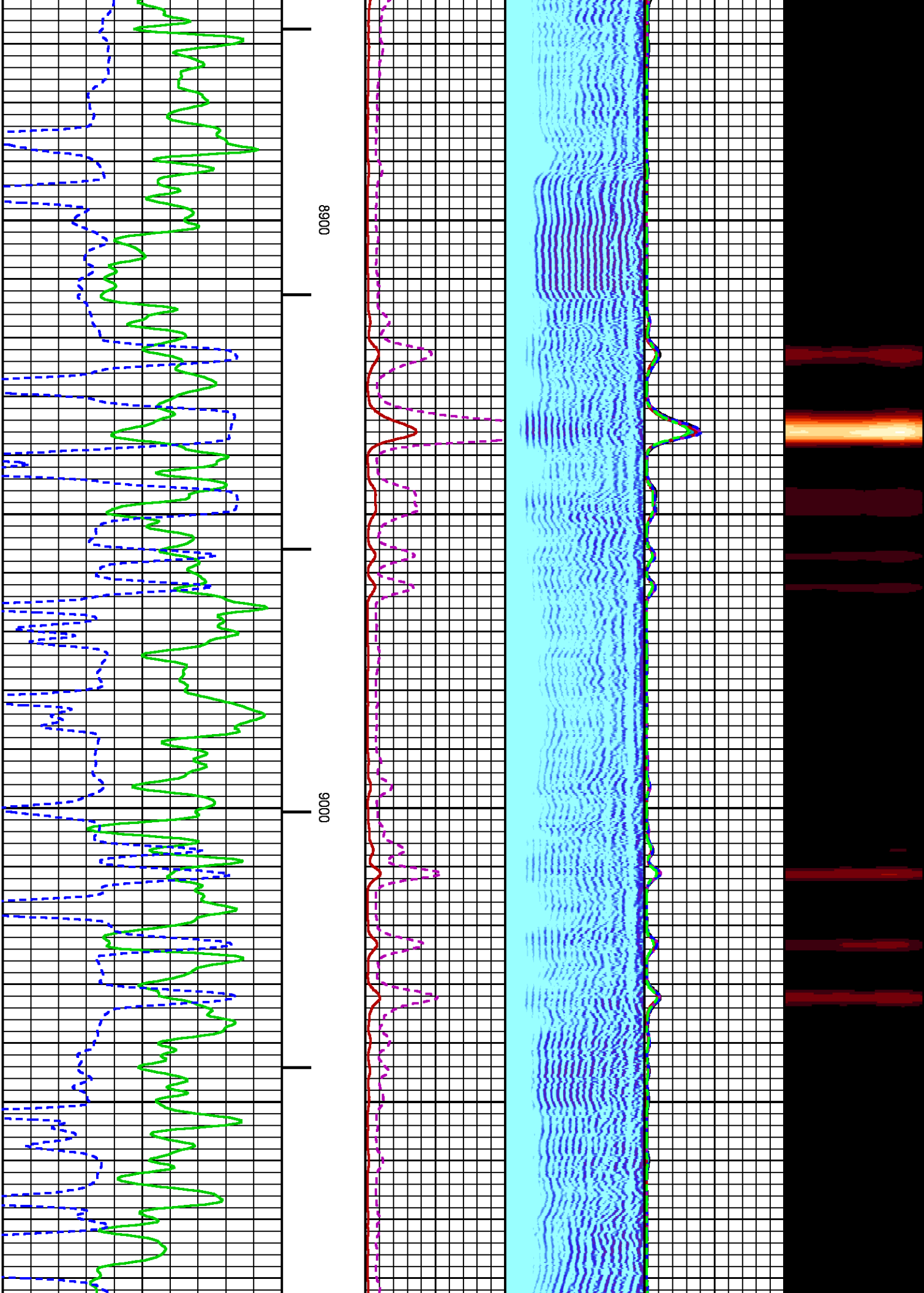




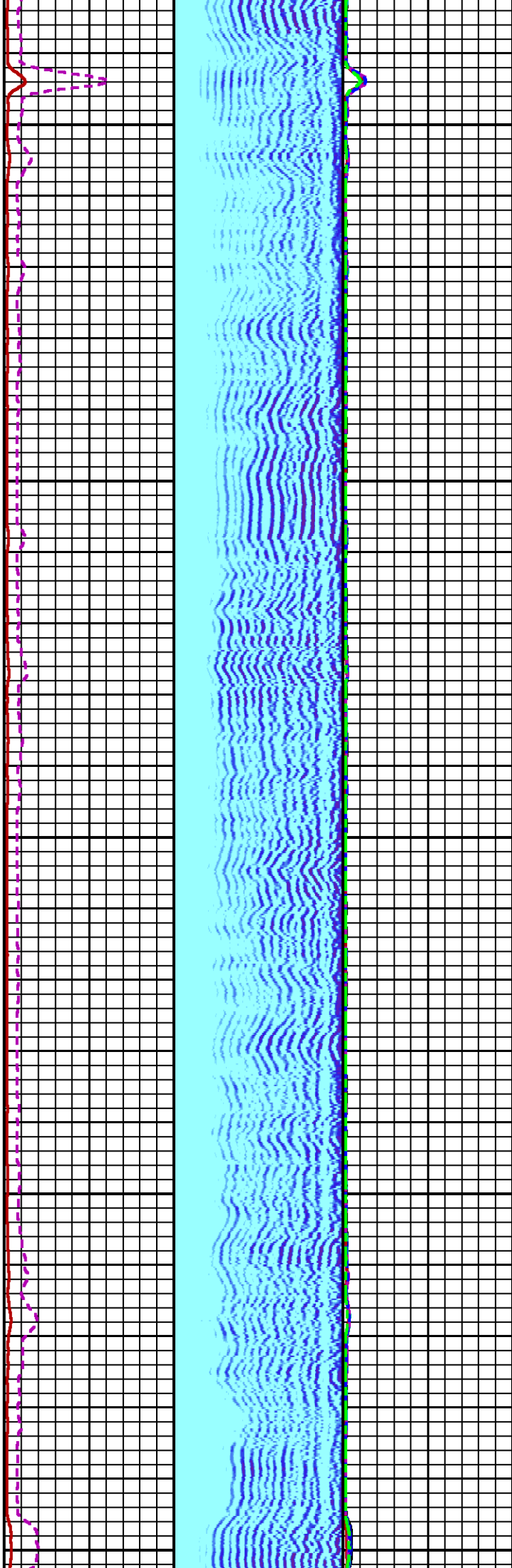








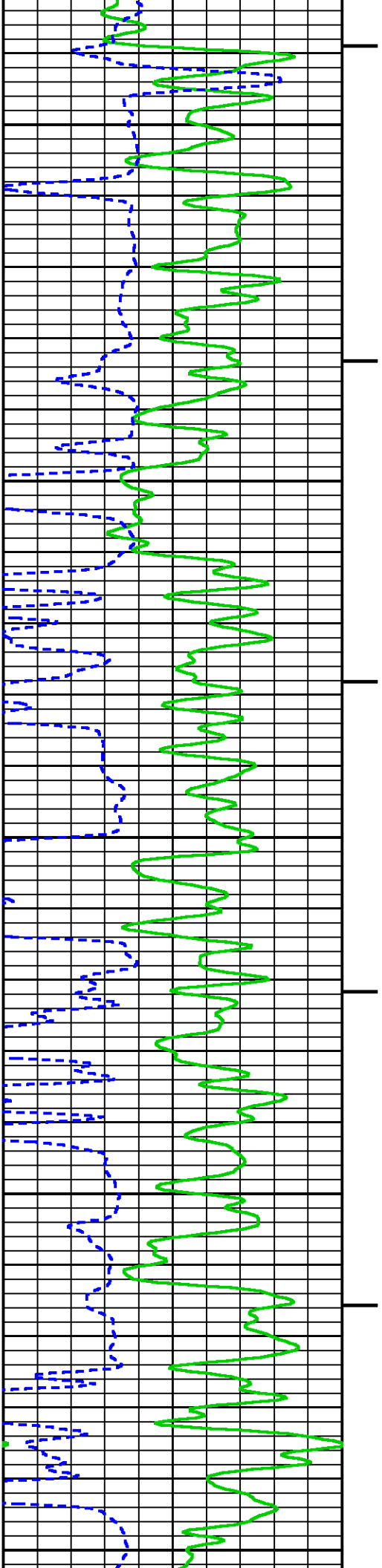


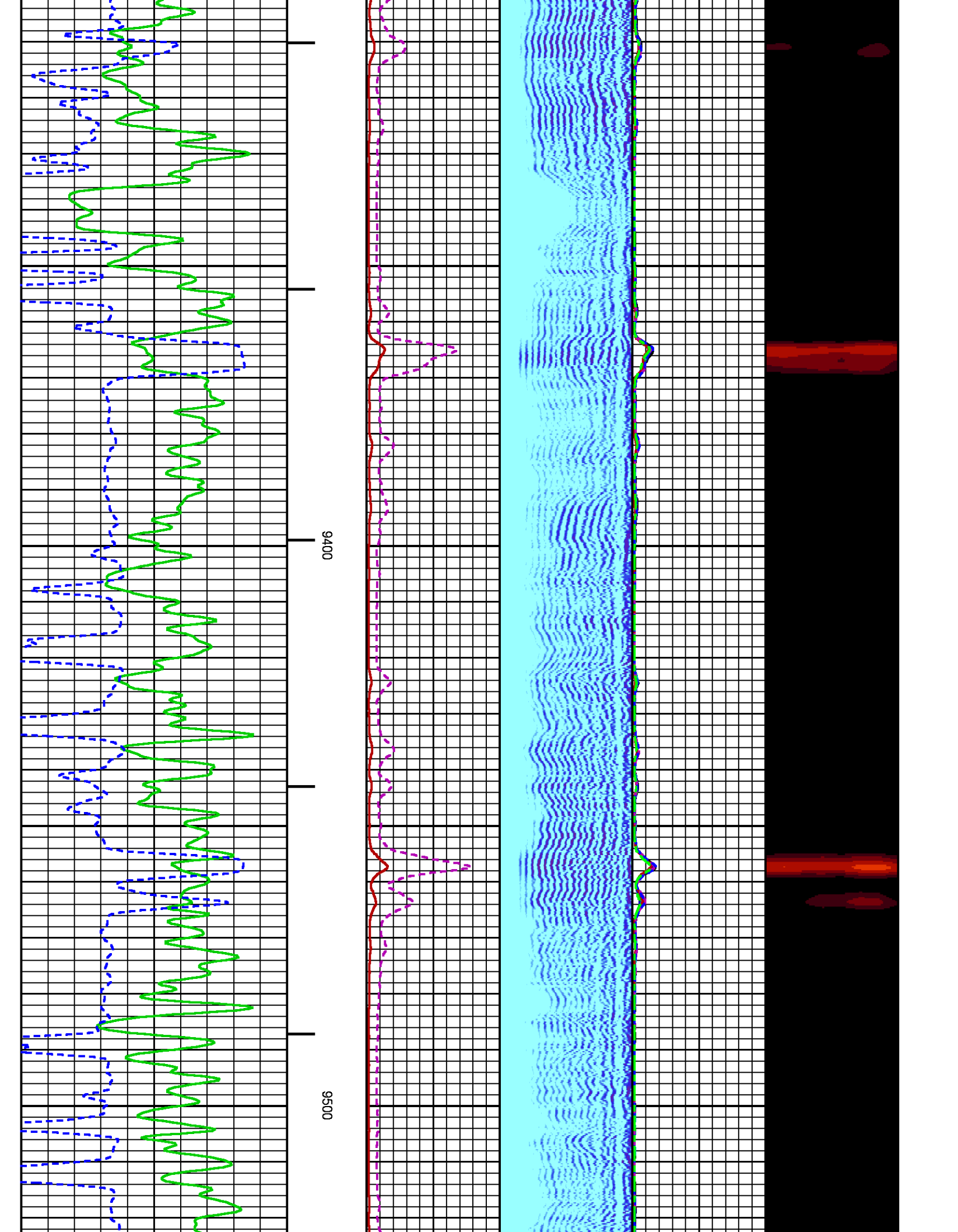


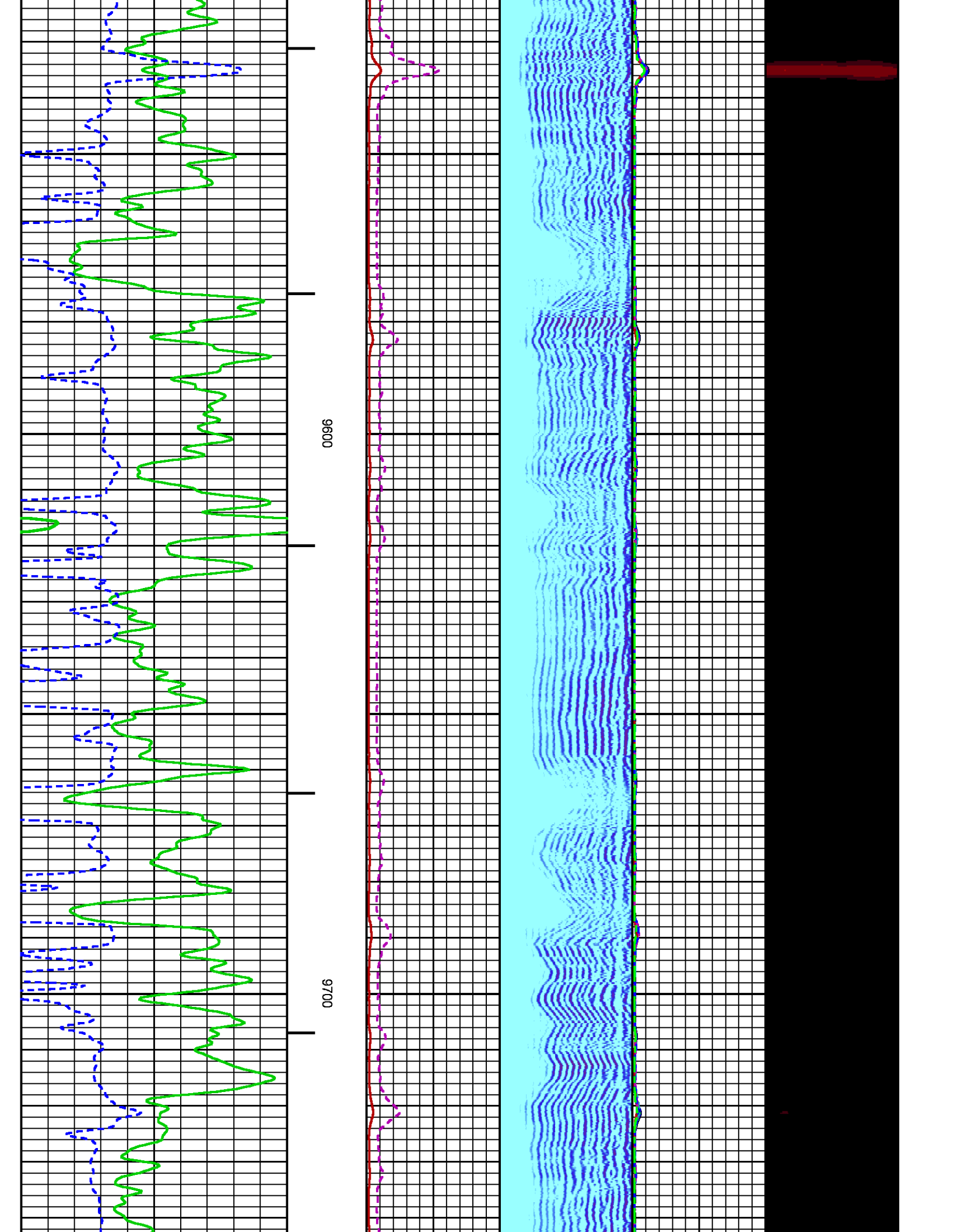
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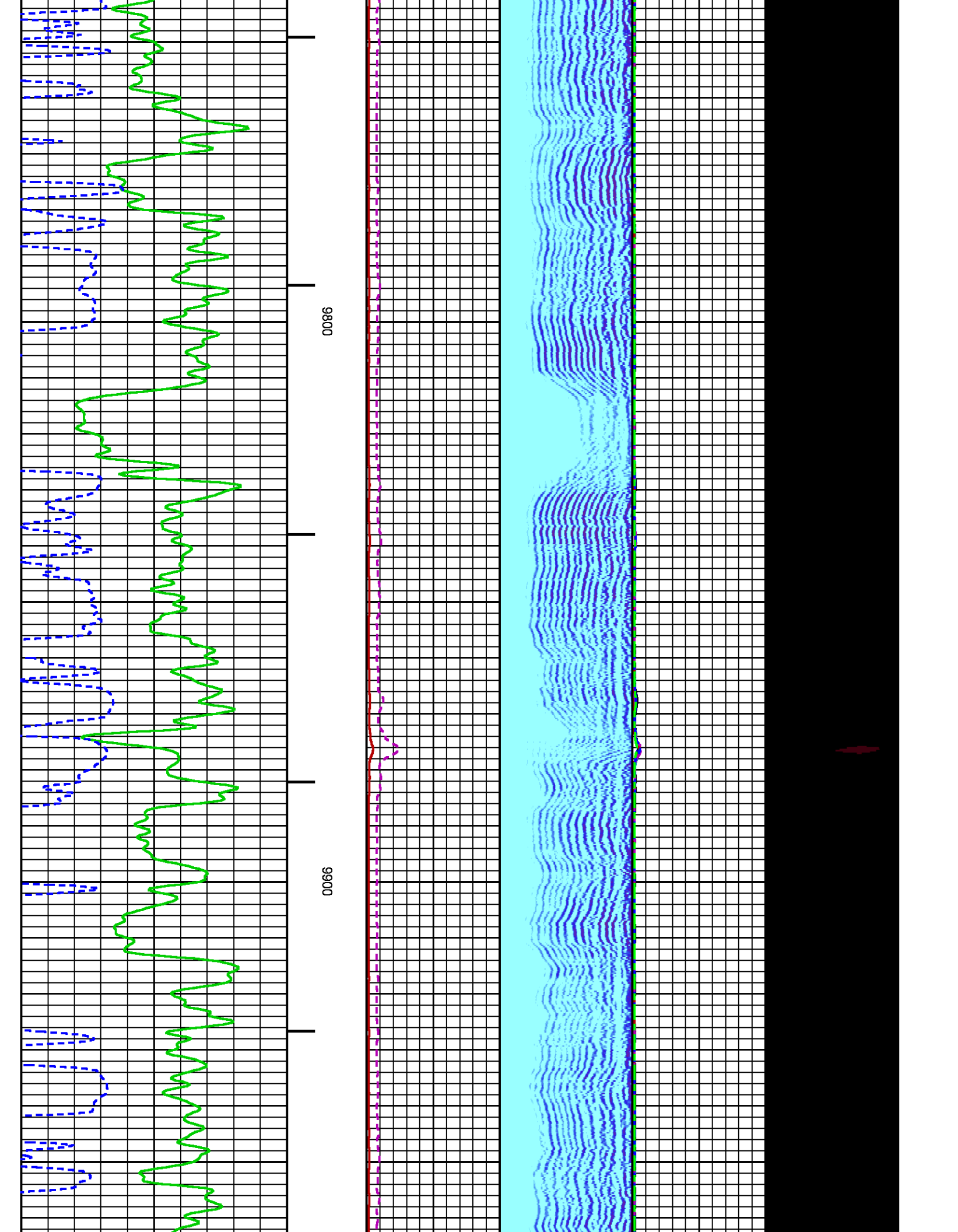
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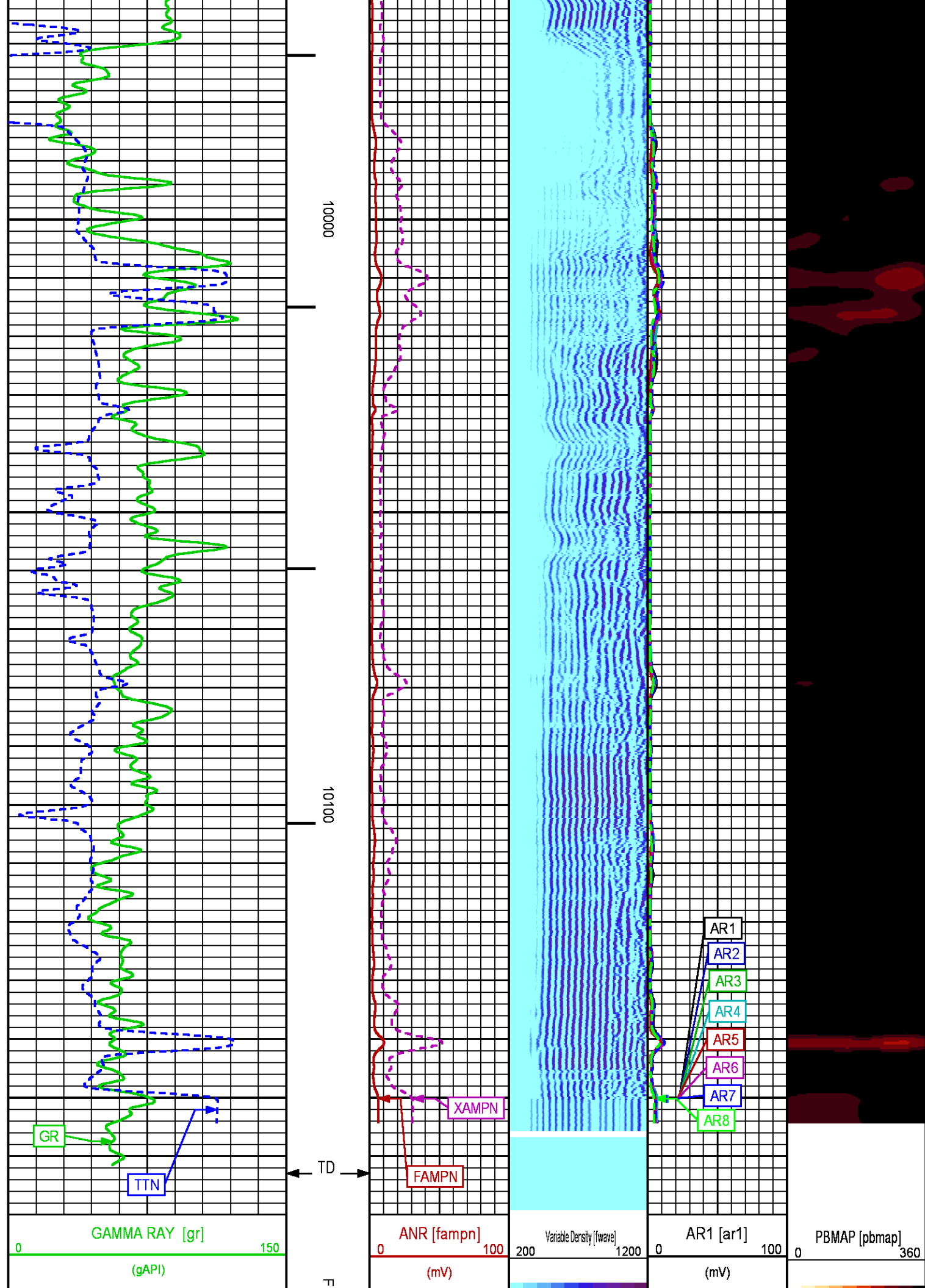


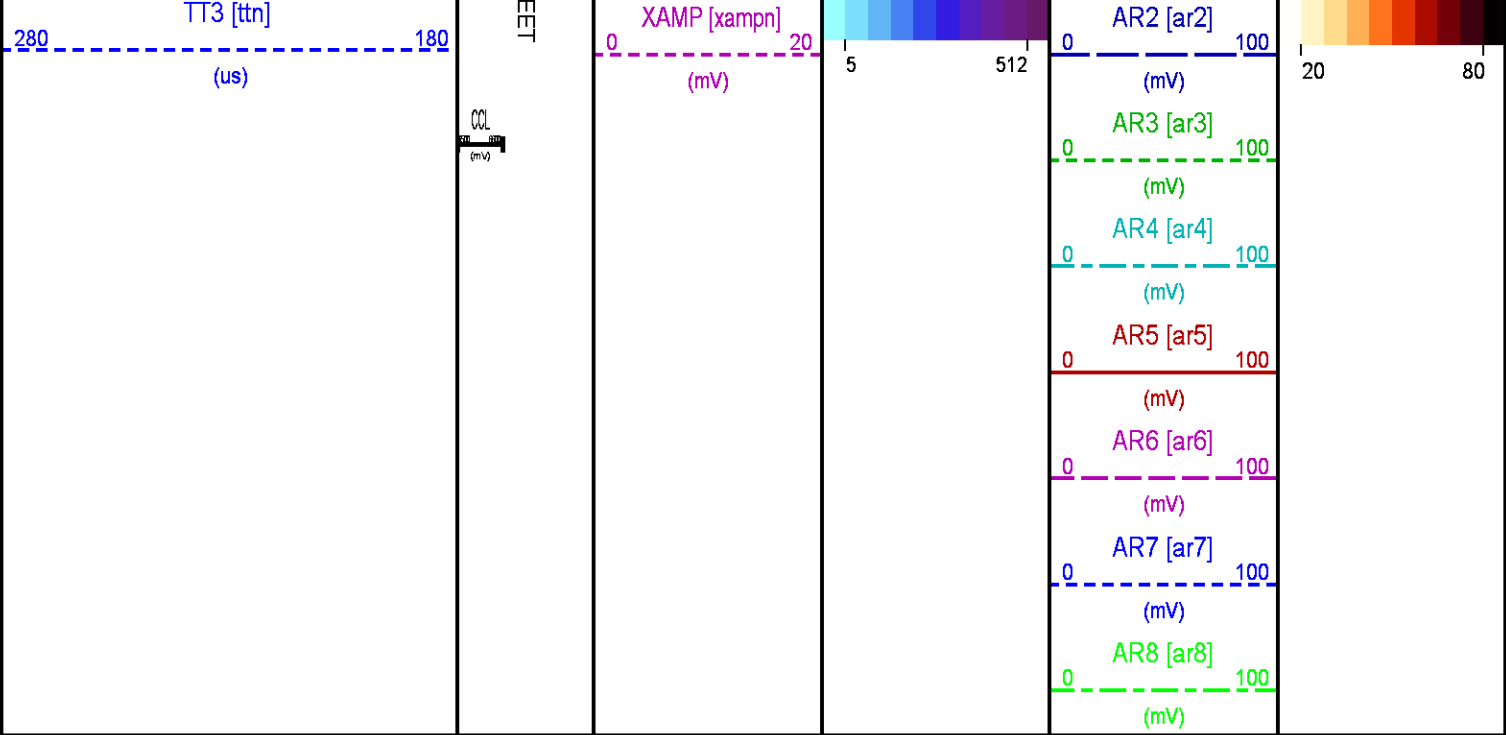












REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1 Patches: 2

Plotted: Mon Sep 1 12:37:15 2014

PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH089276/n012e07.prm					
LOGGING MODE: DEPTH		DIRECTION: UP			
TOP DEPTH: 9723.500 ft		BOTTOM DEPTH: 10173.136 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*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-73	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	126	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

## CURVE DESCRIPTION REPORT

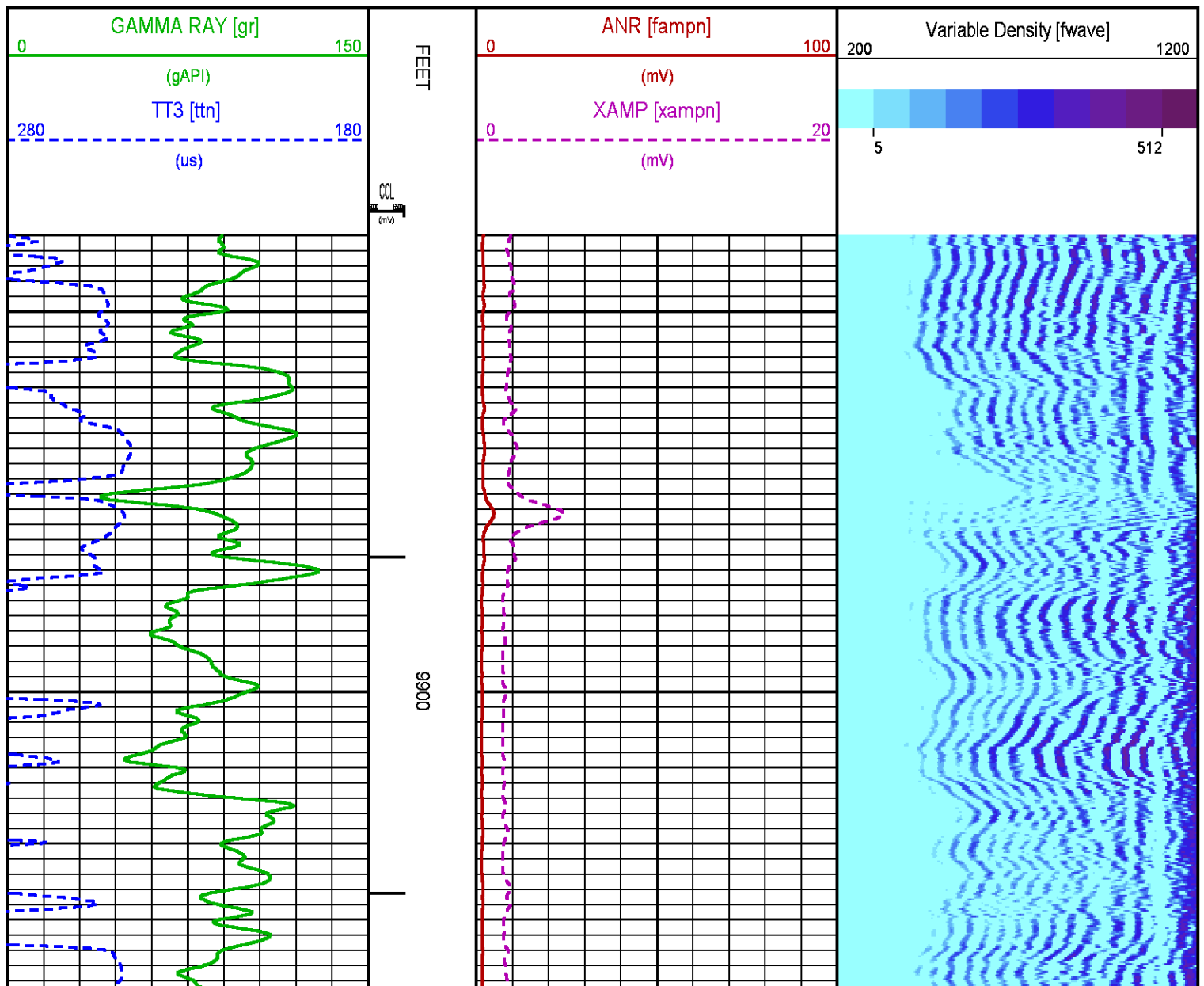
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Sep 1 09:28:19 2014	CASING COLLAR LOCATOR
F1:FAMPN	Sep 1 09:28:19 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 1 09:28:19 2014	FAR WAVE FORM
F1:GR	Sep 1 09:28:19 2014	GAMMA RAY
F1:TTN	Sep 1 09:28:19 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 1 09:28:19 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

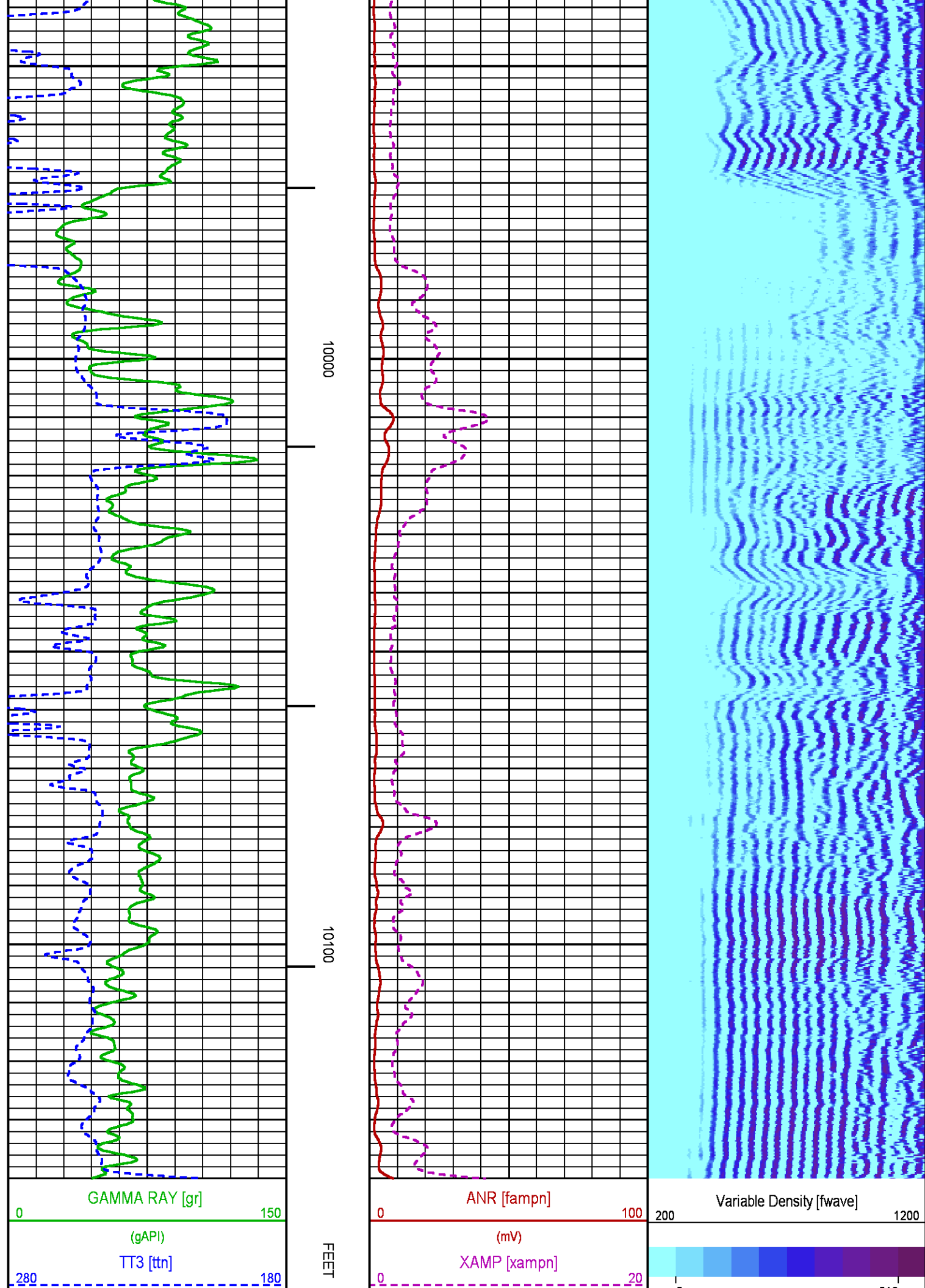
## CURVE MEASURE POINT OFFSET

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

Presentation : HL6670:/dat1a/CH089276/34\_CBL\_REPEAT.fvpdf [5"/100' Scale]  
Plot Interval : 9840 - 10140 Feet

Data File 1 : F1 : HL6670:/dat1a/CH089276/34CBL\_REPEAT\_REDO.xtf  
Created On : Sep 1 09:28:19 2014  
Company : WPX ENERGY  
Well : FEDERAL NER 34-32  
Field : RULISON  
File Interval : 9707.75 - 10168.8 Feet  
OCT : n012e







(us)


  
 (mV)

(mV)

5

512

## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH089276/n012e.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10404539

DATE/TIME PERFORMED: Mon Sep 1 08:36:34 2014

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)	-0.14	-0.10	-0.15	-0.18	-0.20	-0.32	-0.17	-0.24	-0.23	-0.50	-0.01
AMP FLUID (mV)	285	300	288	285	284	288	285	285	286	332	288
TT (us)	217	218	217	217	217	217	216	215	217	323	217
M FACTOR	0.35	0.33	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.45	0.35

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10404539

DATE/TIME PERFORMED: Mon Sep 1 08:39:16 2014

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.01	0.01	0.00	0.01	-0.01	0.00	-0.00	0.00	0.01	0.05	0.00
AMP AIR	-0.38	-0.66	-0.59	-0.51	-0.42	-0.82	-0.51	-0.57	-0.76	0.07	99.62

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.35	0.00	1.00

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2459XA 10218503

DATE/TIME PERFORMED: Thu Aug 28 14:17:25 2014

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	90.98	339.82	248.8	0.743	67.64	252.64	185

### GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2459XA 10218503

DATE/TIME PERFORMED: Thu Aug 28 14:18:55 2014

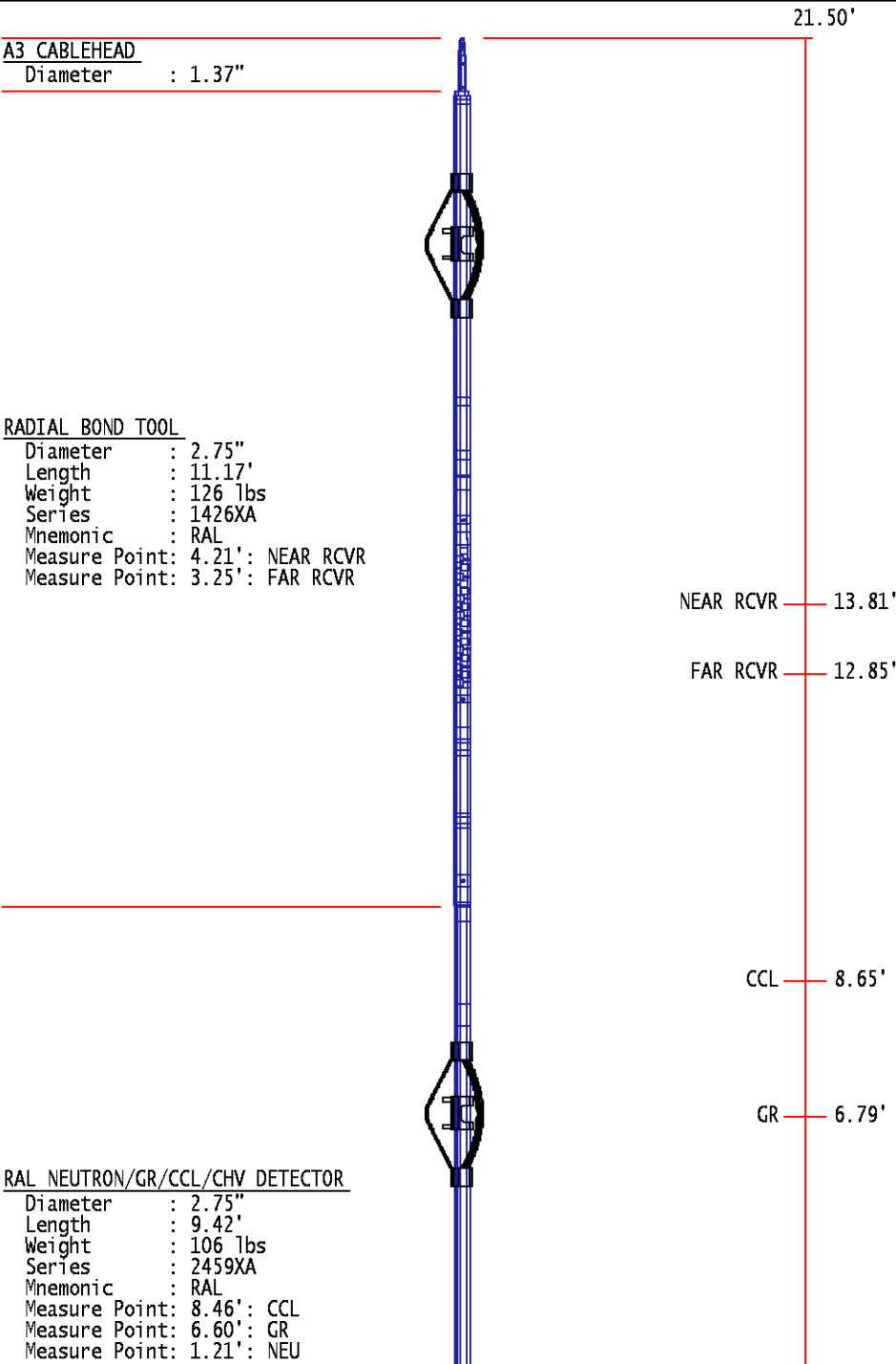
UNIT #: 3880TA HL6670

VERI JIG #: 4702NK DA-041

	BACKGROUND CALBRTR ON (cts)	MULT (cts)	BACKGROUND CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	88.36	0.743	65.69	184.77
				175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH089276/34-tdg



NEU 1.40'

BULL PLUG 2 3/4

0.00'

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



COMPANY WPX ENERGY  
 WELL FEDERAL NER 34-32  
 FIELD RULISON  
 COUNTY GARFIELD STATE CO

FILE NO:  
CH089276  
 API NO:  
05045217840000

LOCATION:  
 SHL: 132' FNL & 2587' FWL(5 7S 93W)  
 BHL: 1116' FSL & 1971' FEL(32 6S 93W)  
 SEC 32 TWP 6S RGE 93W

ELEVATIONS:  
 KB 7629 FT  
 DF  
 GL 7603 FT  
 DATE 30-Aug-2014

32 6S 93W  
RU 23-5 PAD  
NABORS 576

