



FILE NO: CH087278	COMPANY WPX ENERGY INC
API NO: 05045222580000	WELL C & C ENERGY GM 521-13
	FIELD GRAND VALLEY
	COUNTY GARFIELD
	STATE CO
Ver. 3.87 S13 T7S R96W PAD: GM 24-12 RIG: H & P 318	LOCATION: SHL: 274' FSL 1008' FWL S12 T7S R96W BHL: 1054' FNL 2074' FWL S13 T7S R96W SEC 13 TWP 7S RGE 96W
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	OTHER SERVICES RPM ELEVATIONS: KB 5165 FT DF GL 5141 FT

DATE	29-Jun-2014
RUN	1
TRIP	1
SERVICE ORDER	US087278
DEPTH DRILLER	6347 FT
DEPTH LOGGER	6311 FT
BOTTOM LOGGED INTERVAL	6301 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	18:00
TIME FINISHED	20:30
OPERATOR RIG TIME	2.5HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	64 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 F/MIN
MAX. RECORDED TEMP.	NA
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	D SMITH
WITNESSED BY	J BRADY

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	1660 FT
8.75 IN	1660 FT	6386 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32.2 LB/F		0 FT	1660 FT
4.5 IN	11.6 LB/F		1660 FT	6386 FT

REMARKS

RUN 1 TRIP 1: ALL DATA ON THIS LOG IS SHIFTED USING THE CCL CURVE TO PLACE THE WELLHEAD (TOP CCL MARK) ON DEPTH WITH GROUND LEVEL ELEVATION AT 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

MAX RECORDED TEMP: 190 F

AMOUNT OF LINEAR SHIFT -.0 FT

SJ: 2617 TO 2646

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR	2459XA	10218504	CENTRALIZED

MAIN LOG PRIMARY PRESENTATION 0 PSI

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

Updates: 1

Plotted: Mon Jun 30 13:33:36 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH087278/n012e02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 25.500 ft BOTTOM DEPTH: 6322.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	185	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-65	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	Jun 29 18:36:04 2014	CASING COLLAR LOCATOR
F1:FAMPN	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 29 18:36:04 2014	FAR WAVE FORM
F1:GR	Jun 29 18:36:04 2014	GAMMA RAY
F1:TTN	Jun 29 18:36:04 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

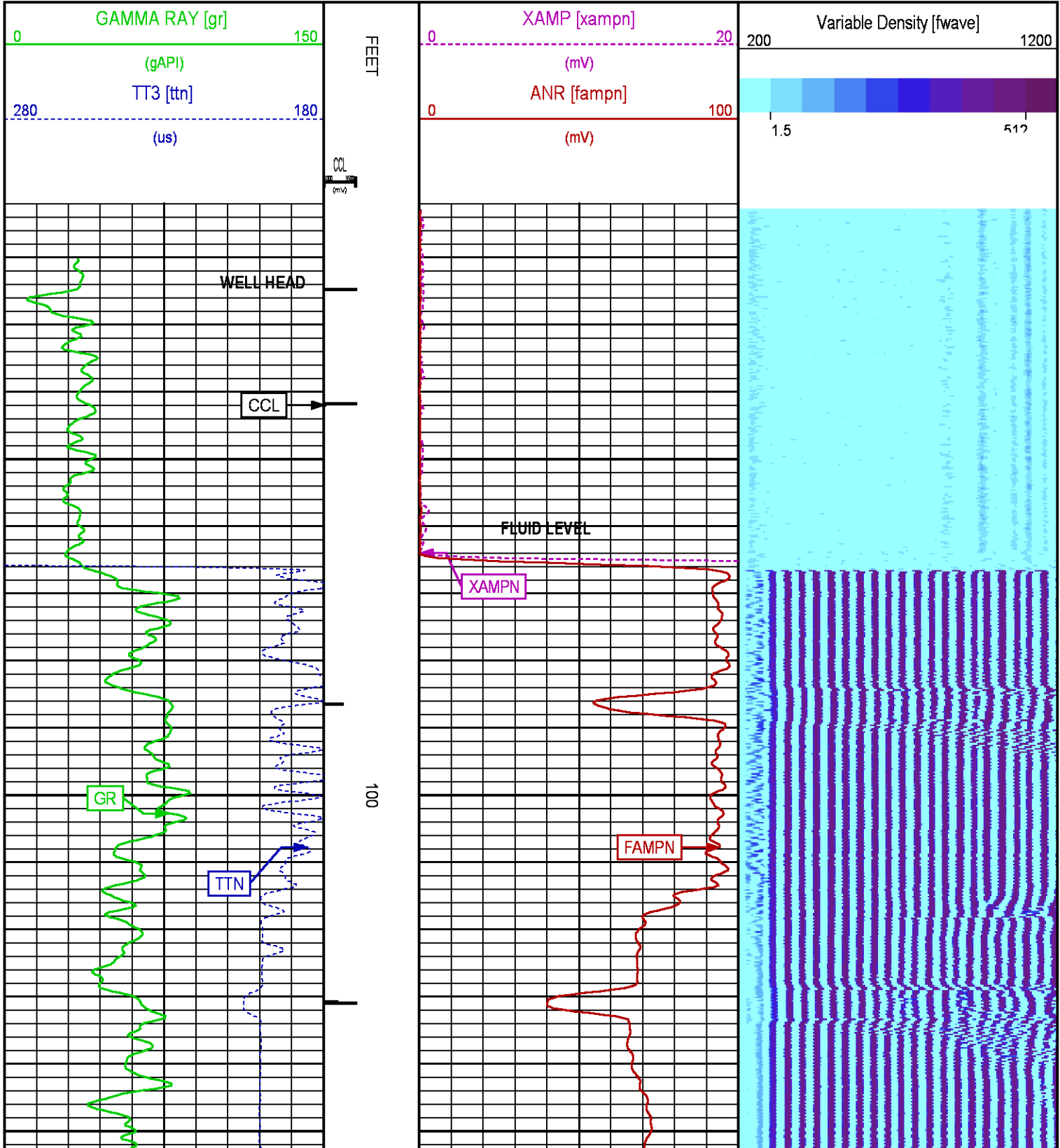
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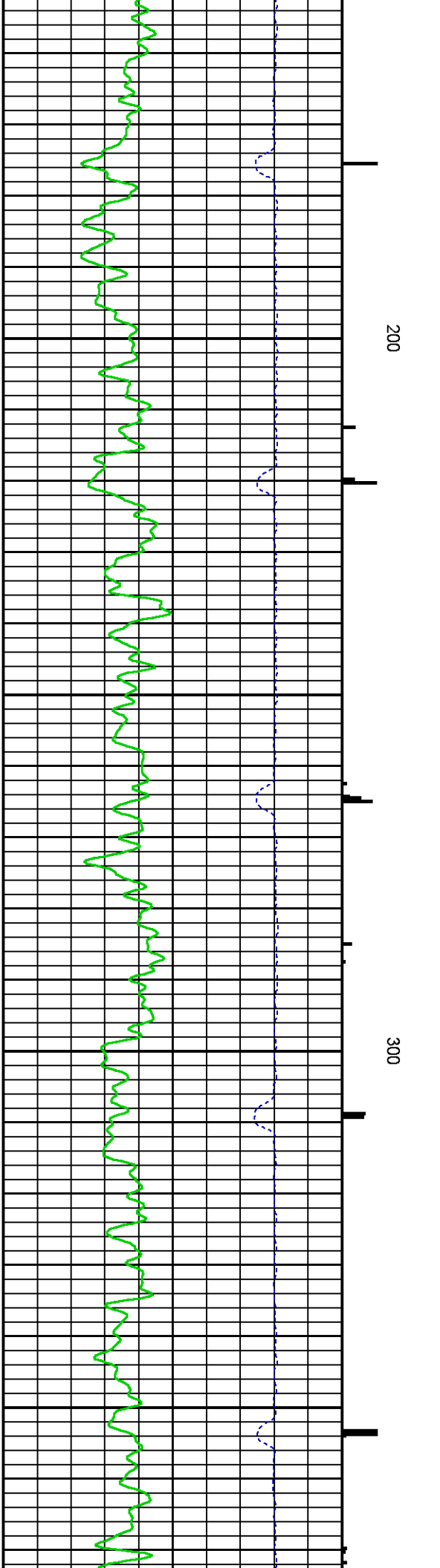
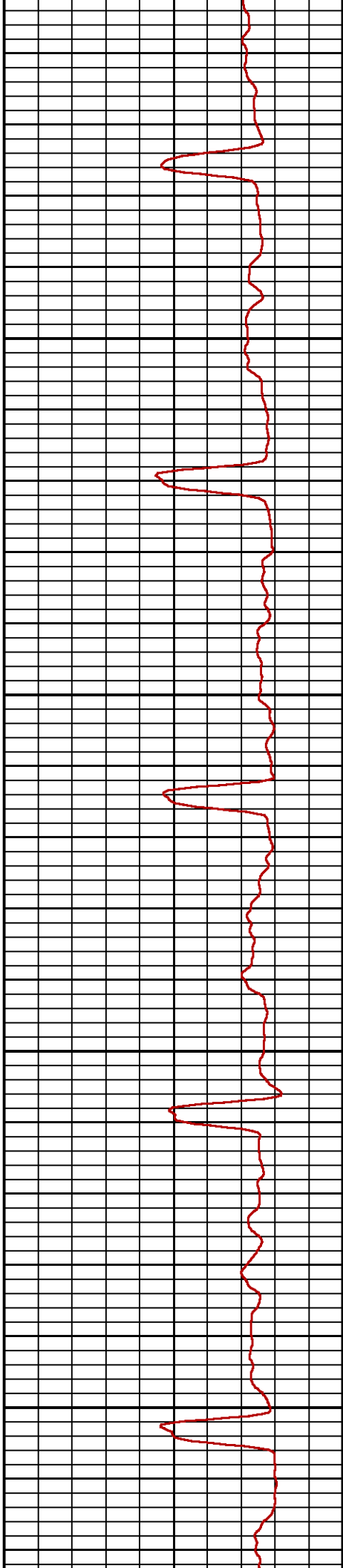
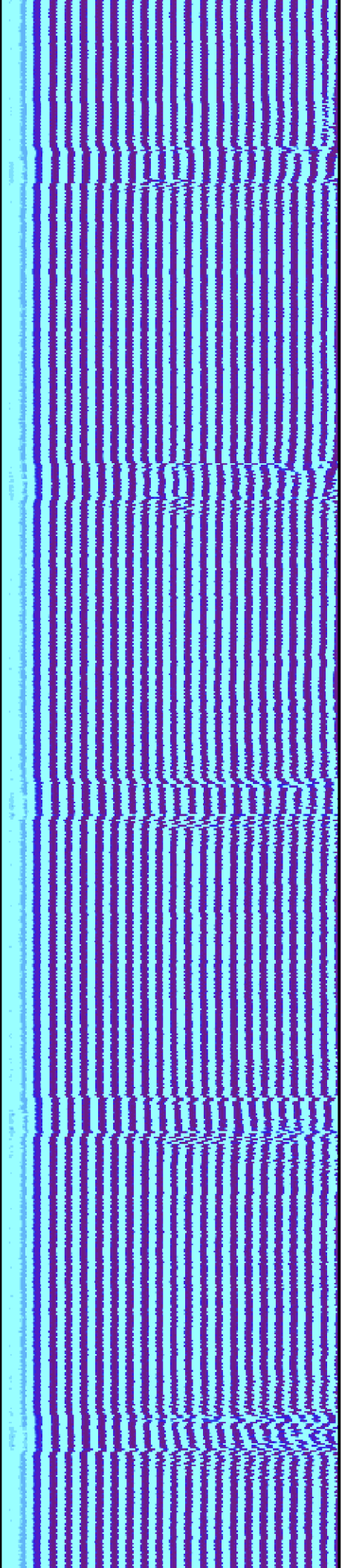
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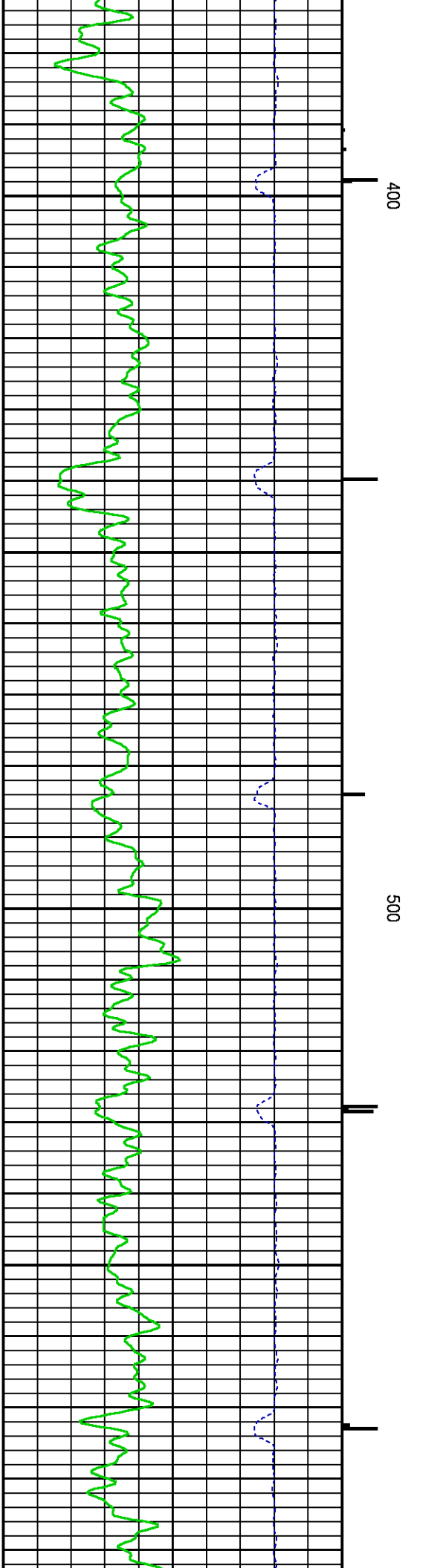
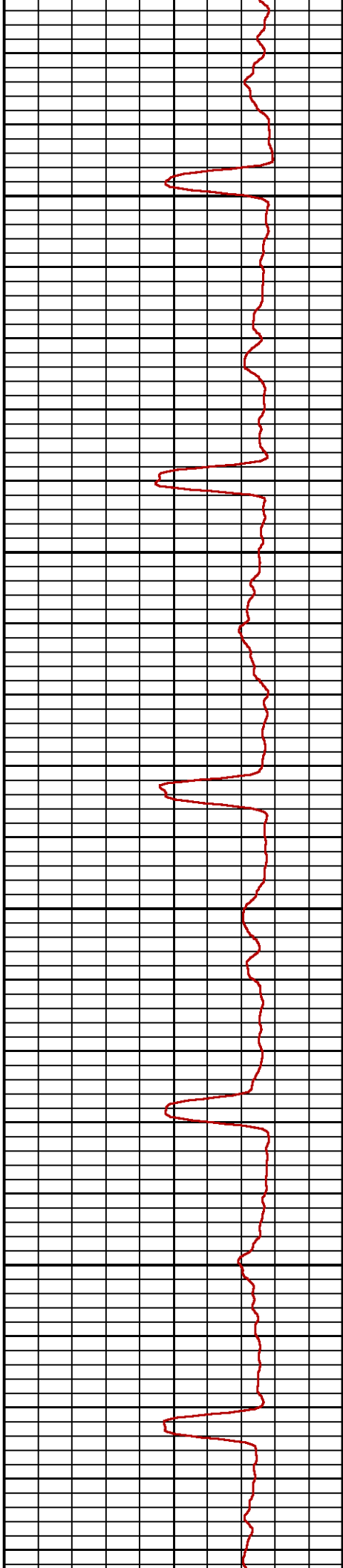
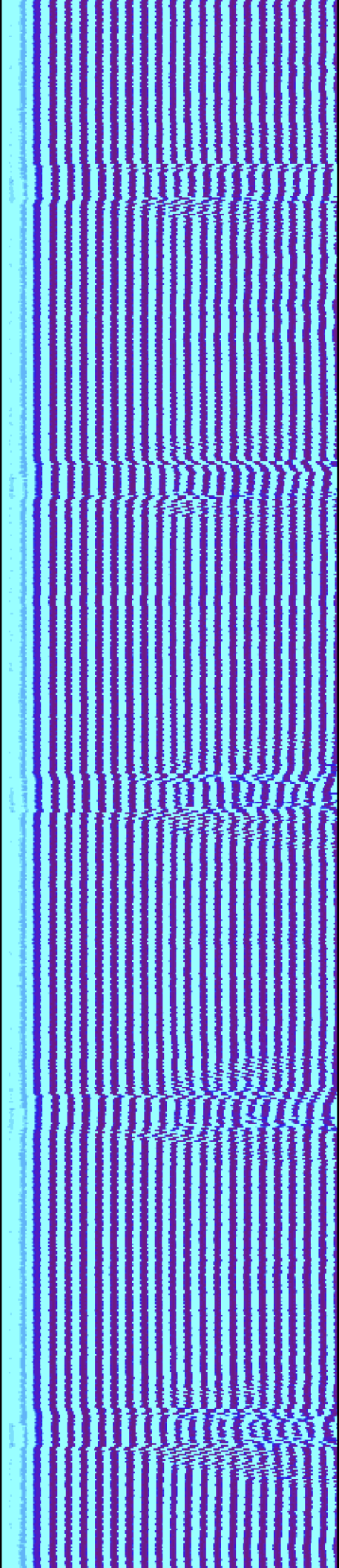
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

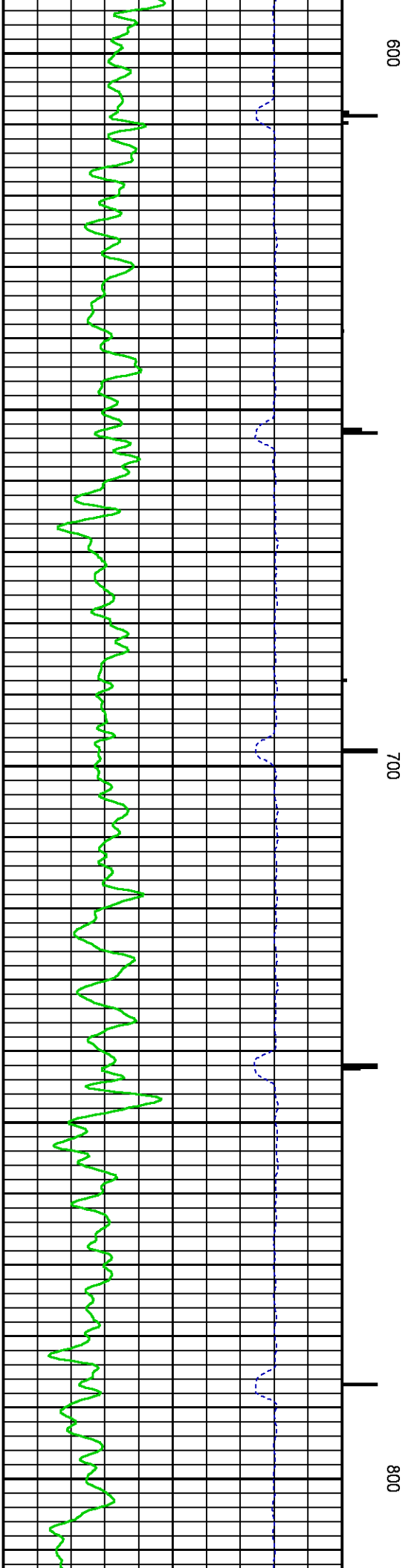
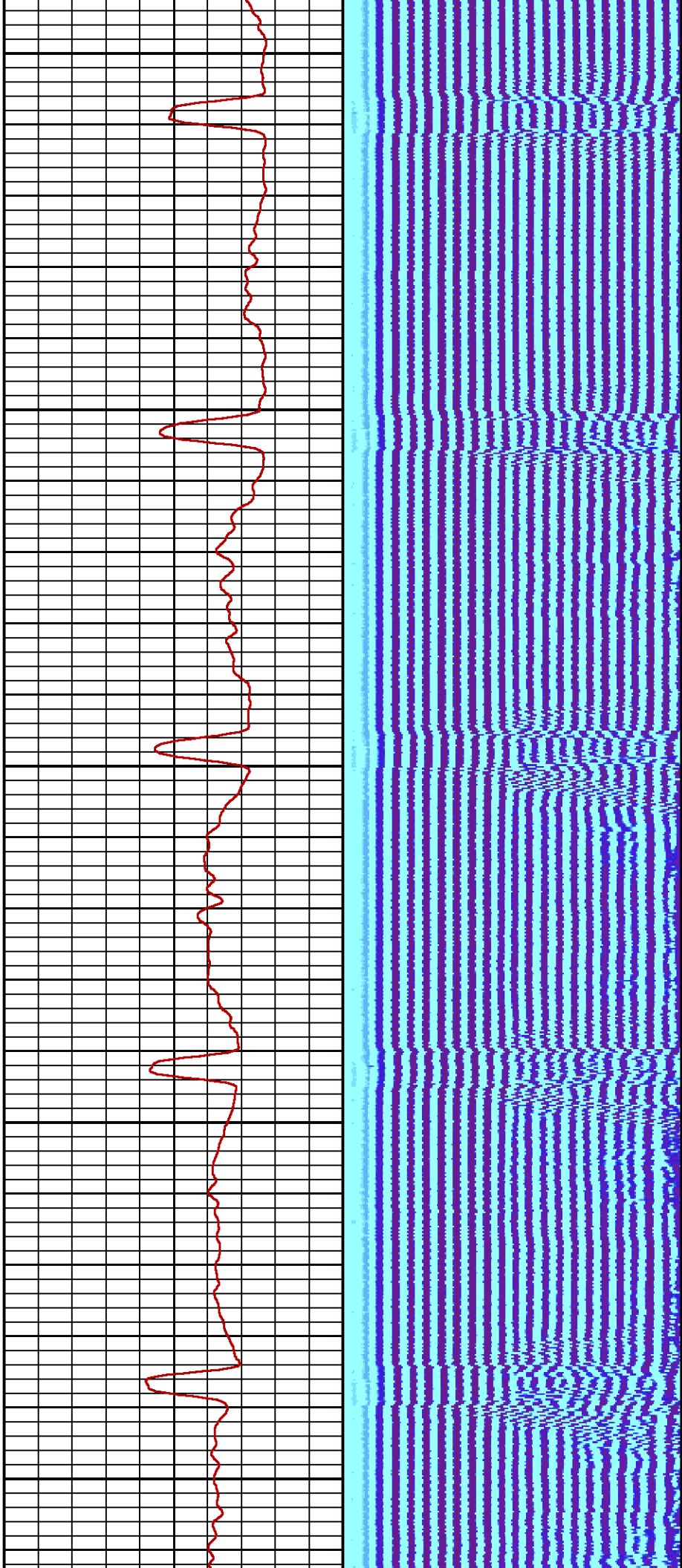
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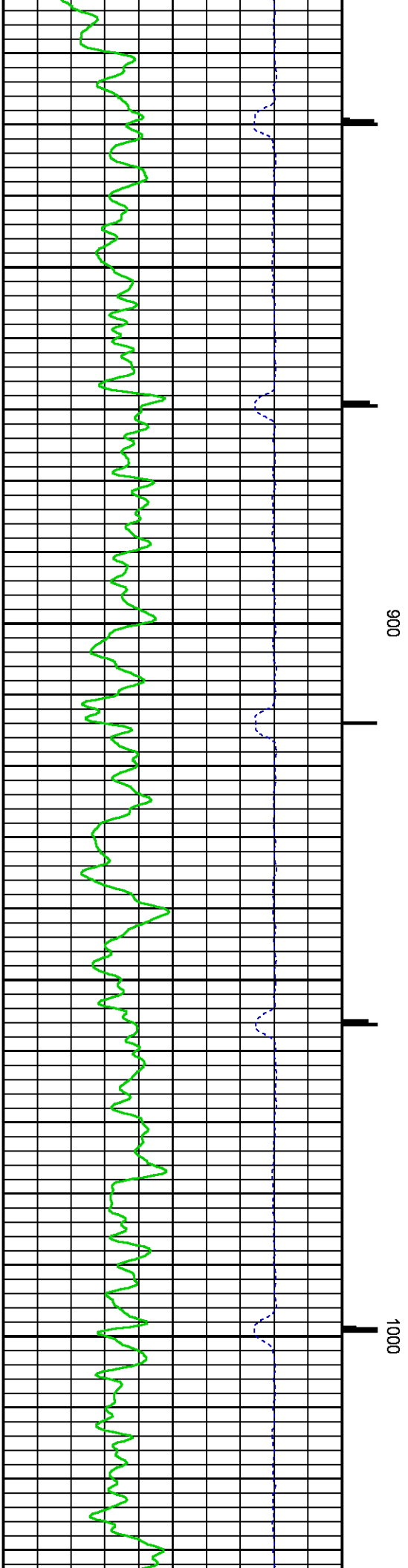
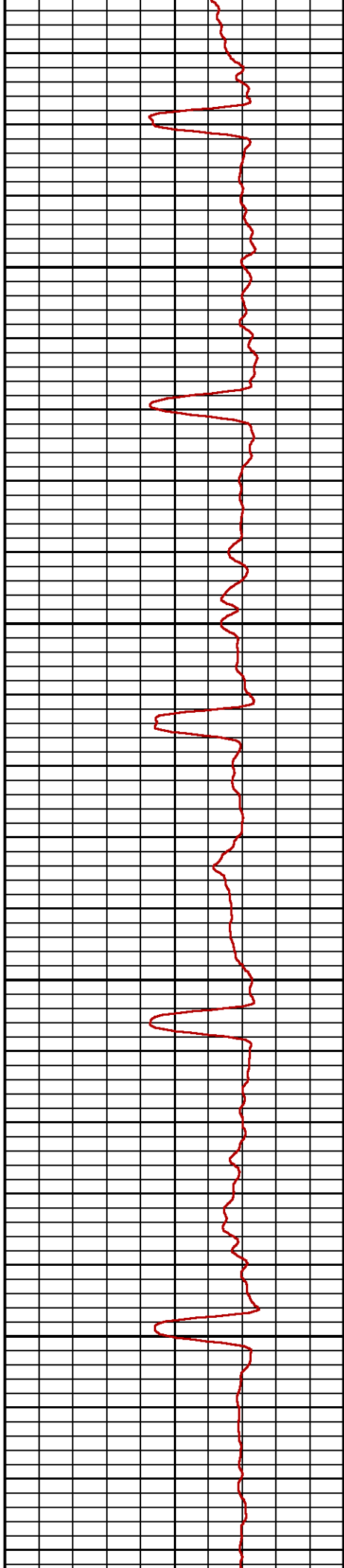
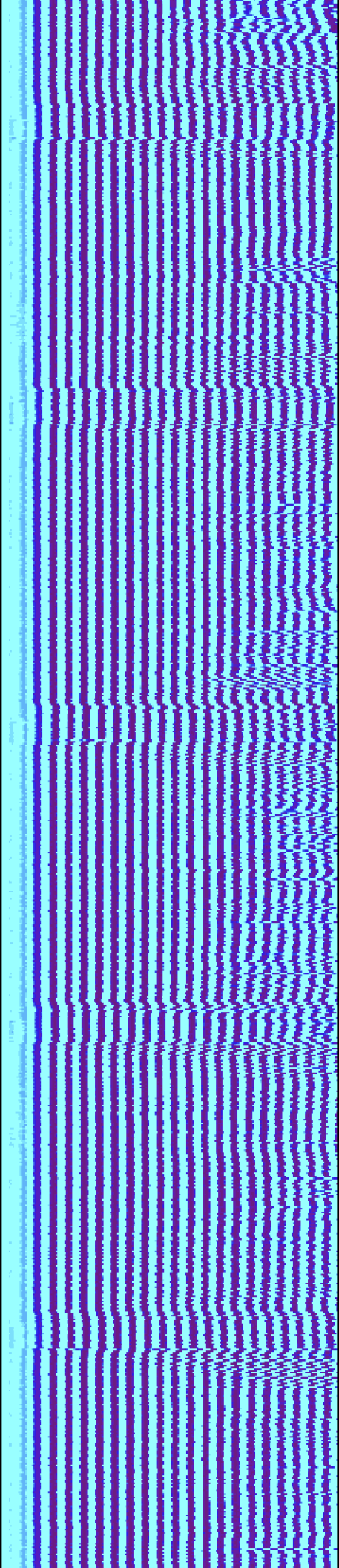
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 Created On : Jun 29 18:36:04 2014
 Company : WPX ENERGY
 Well : C&C ENERGY GM 521-13
 Field : GRAND VALLEY
 File Interval : 11.75 - 6322.25 Feet
 OCT : n012e

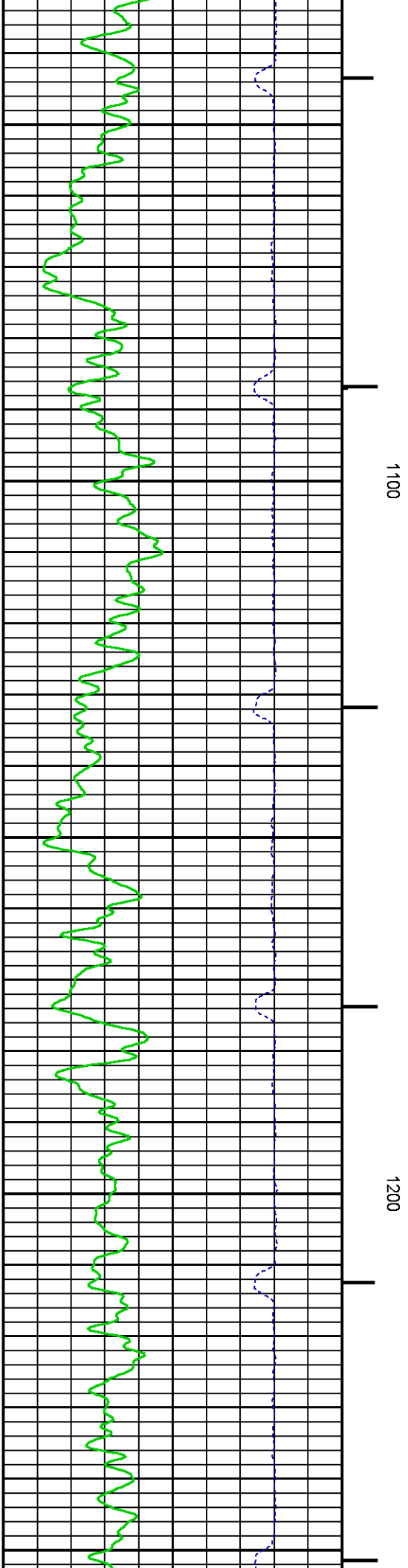
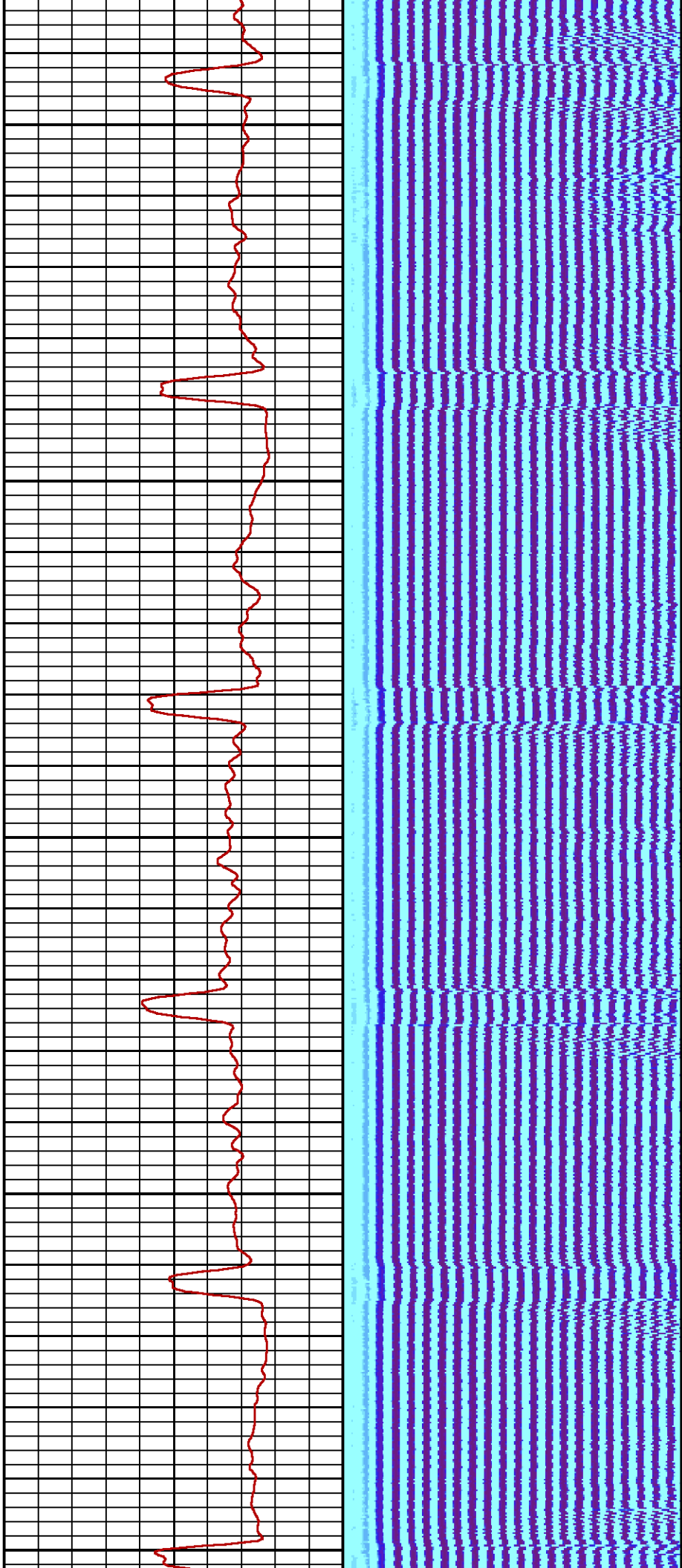


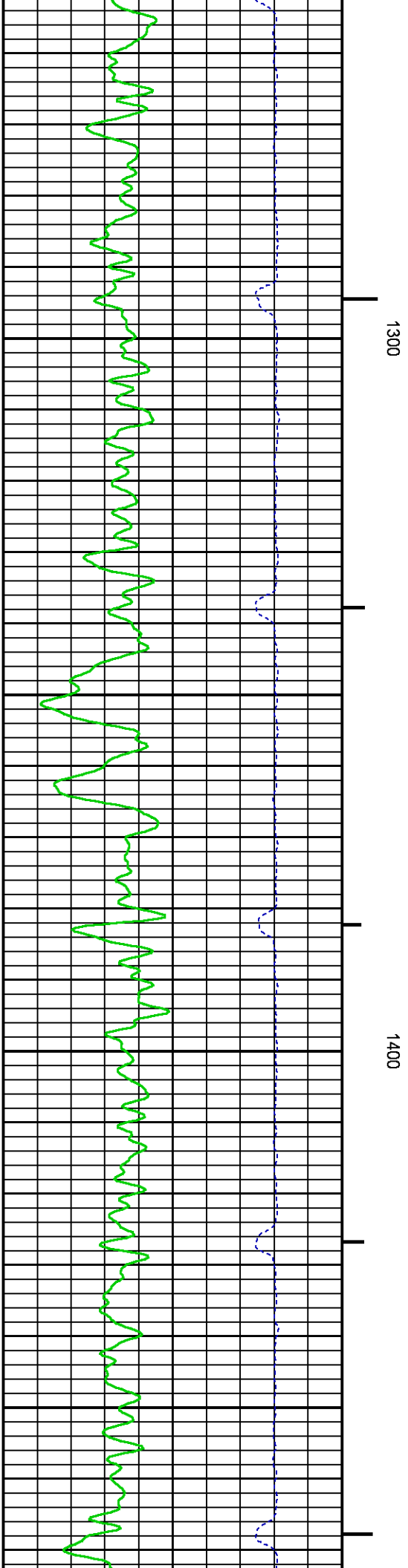
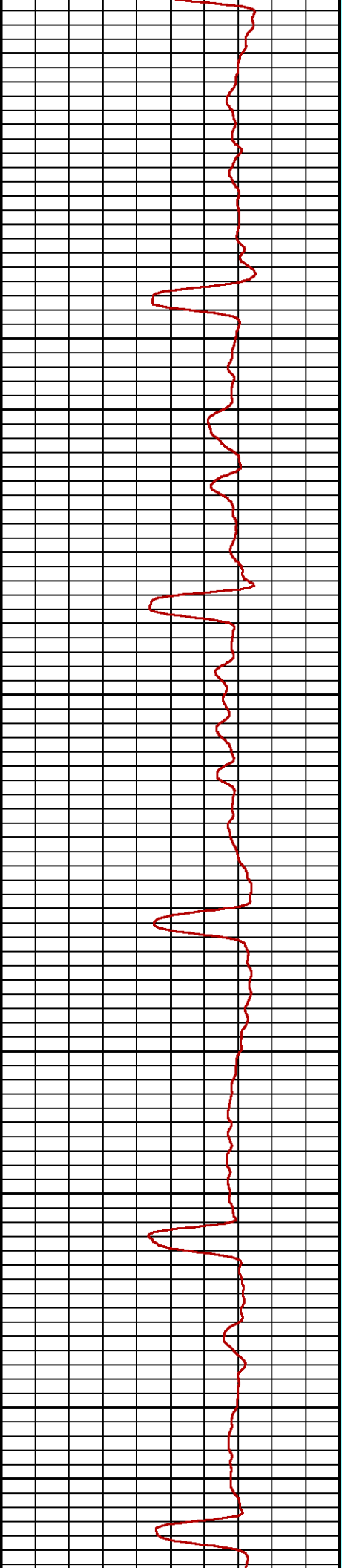
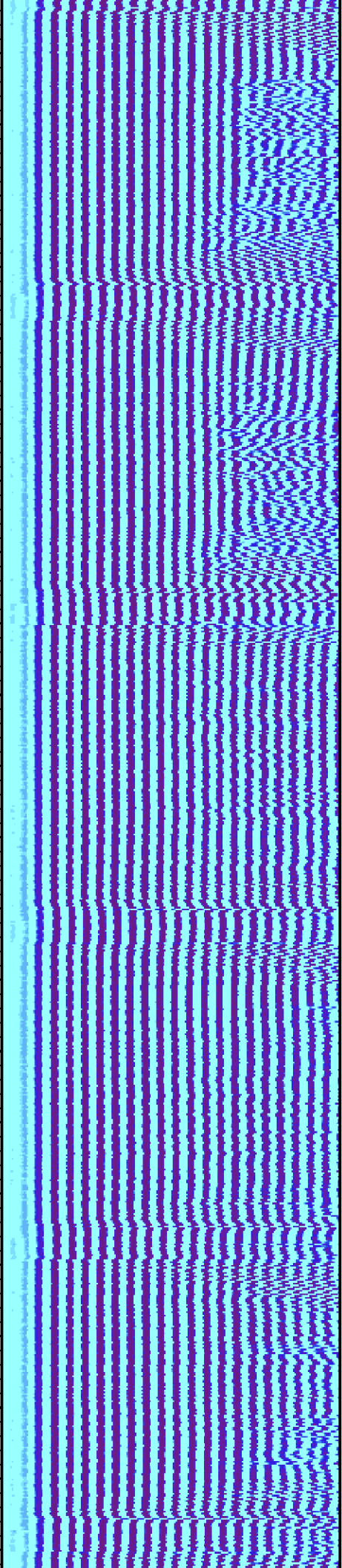


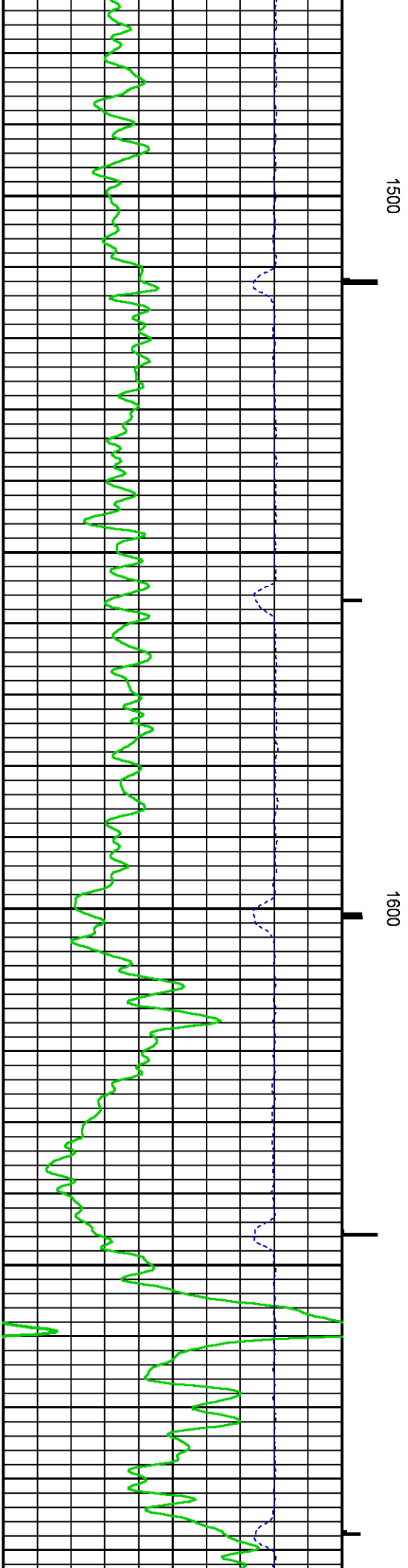
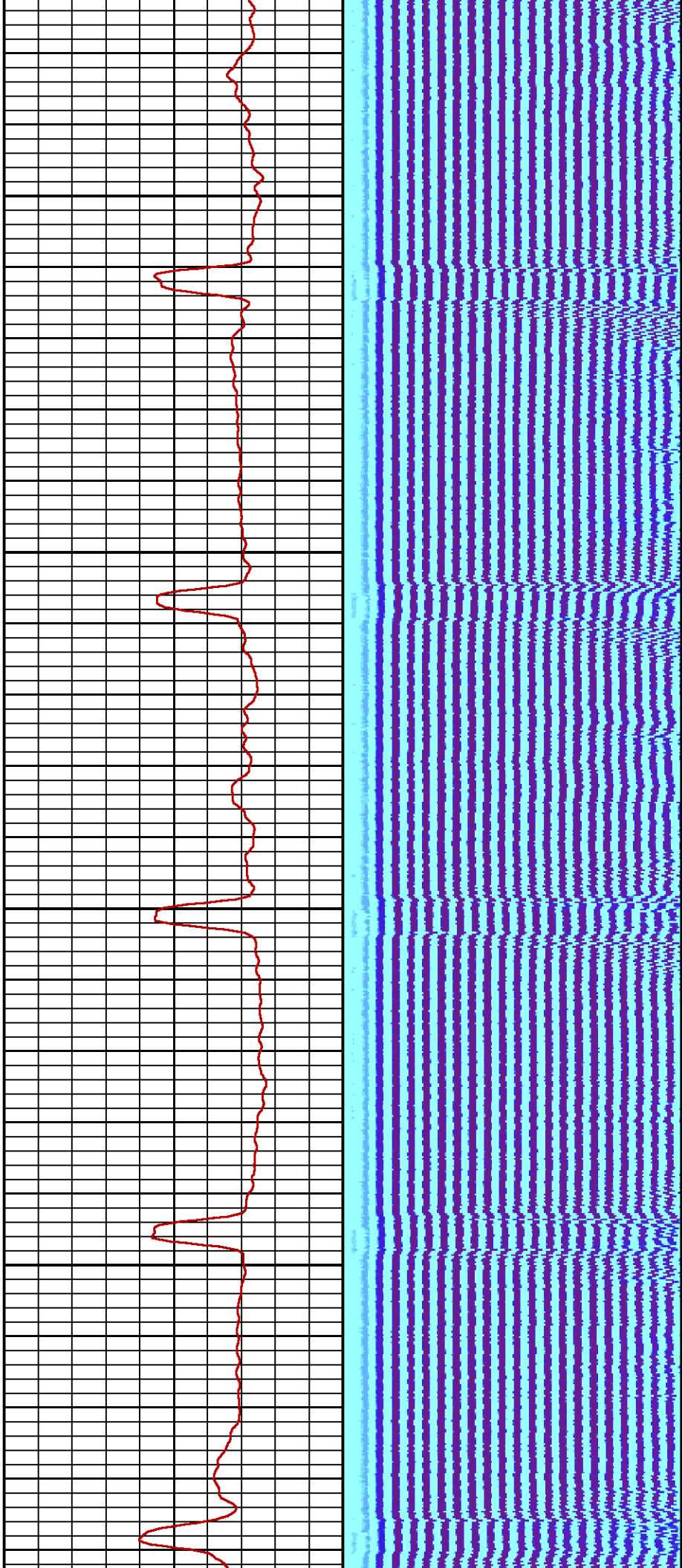


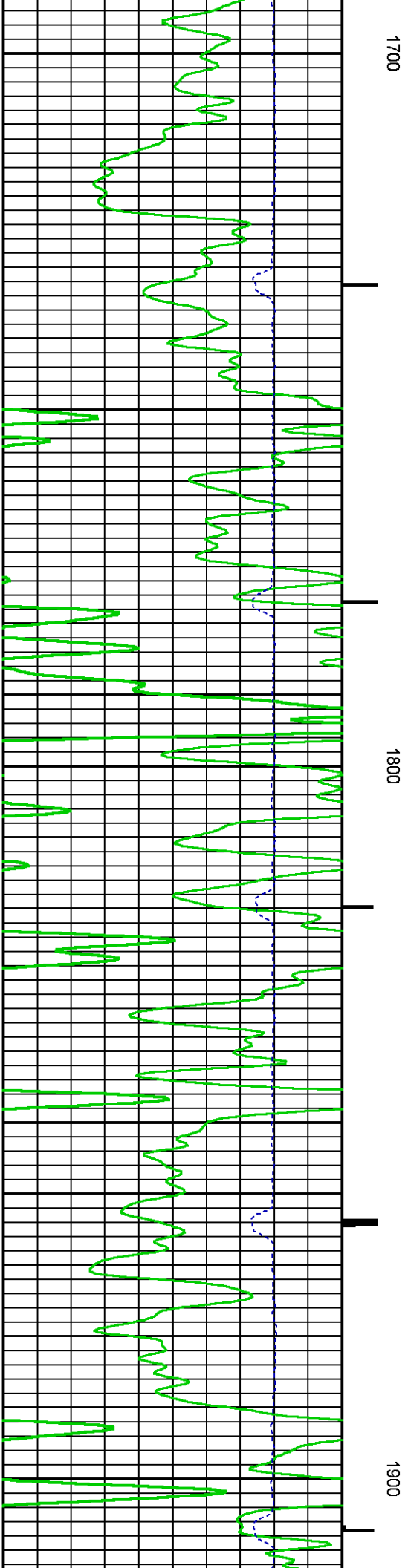
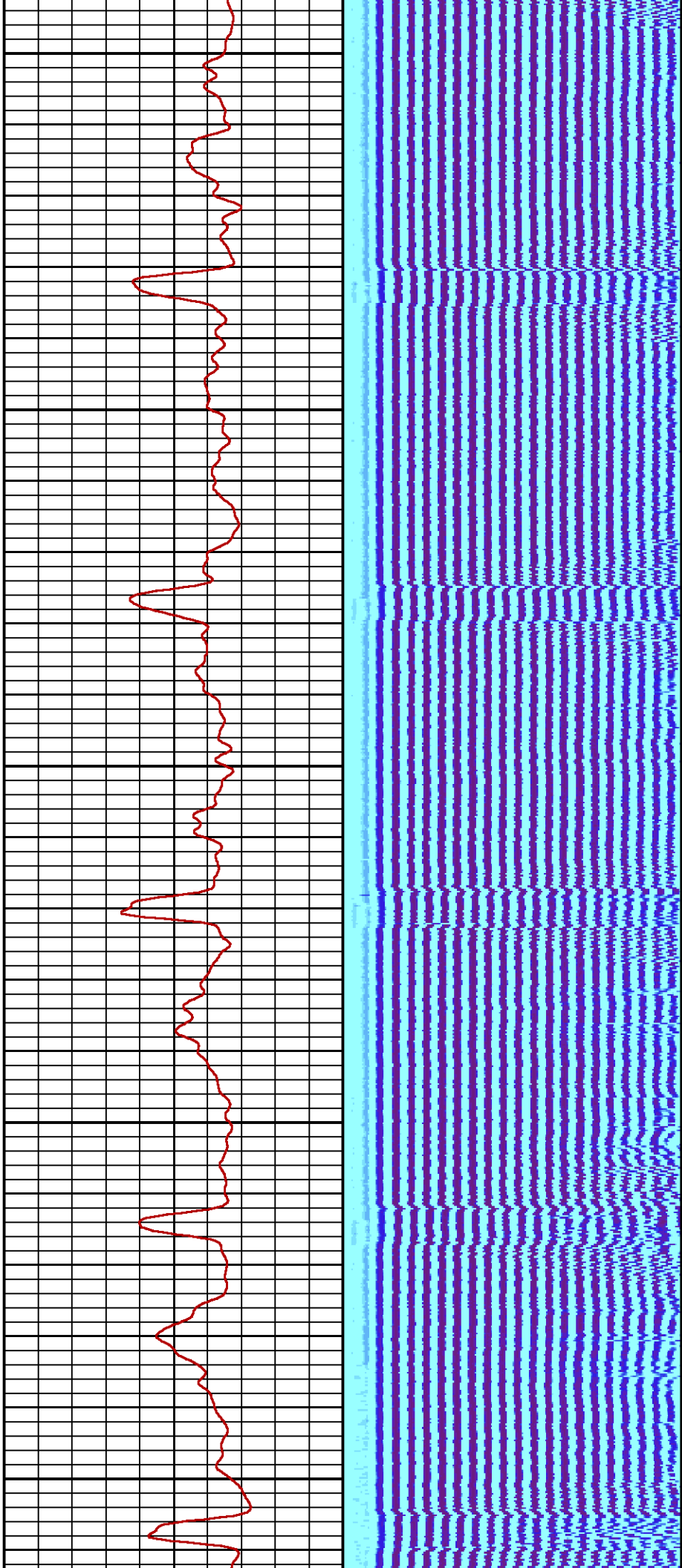


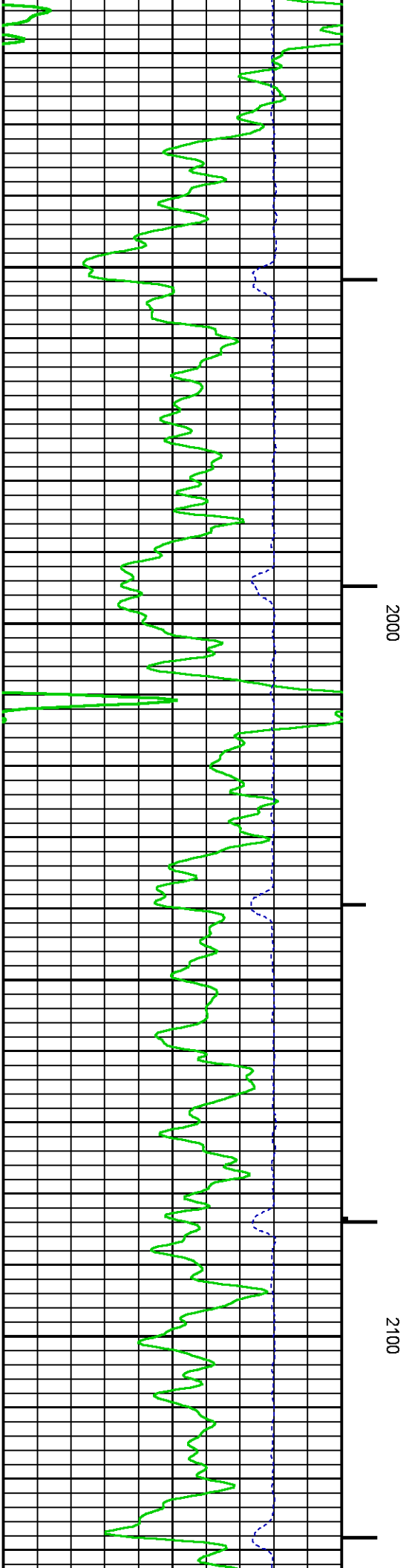
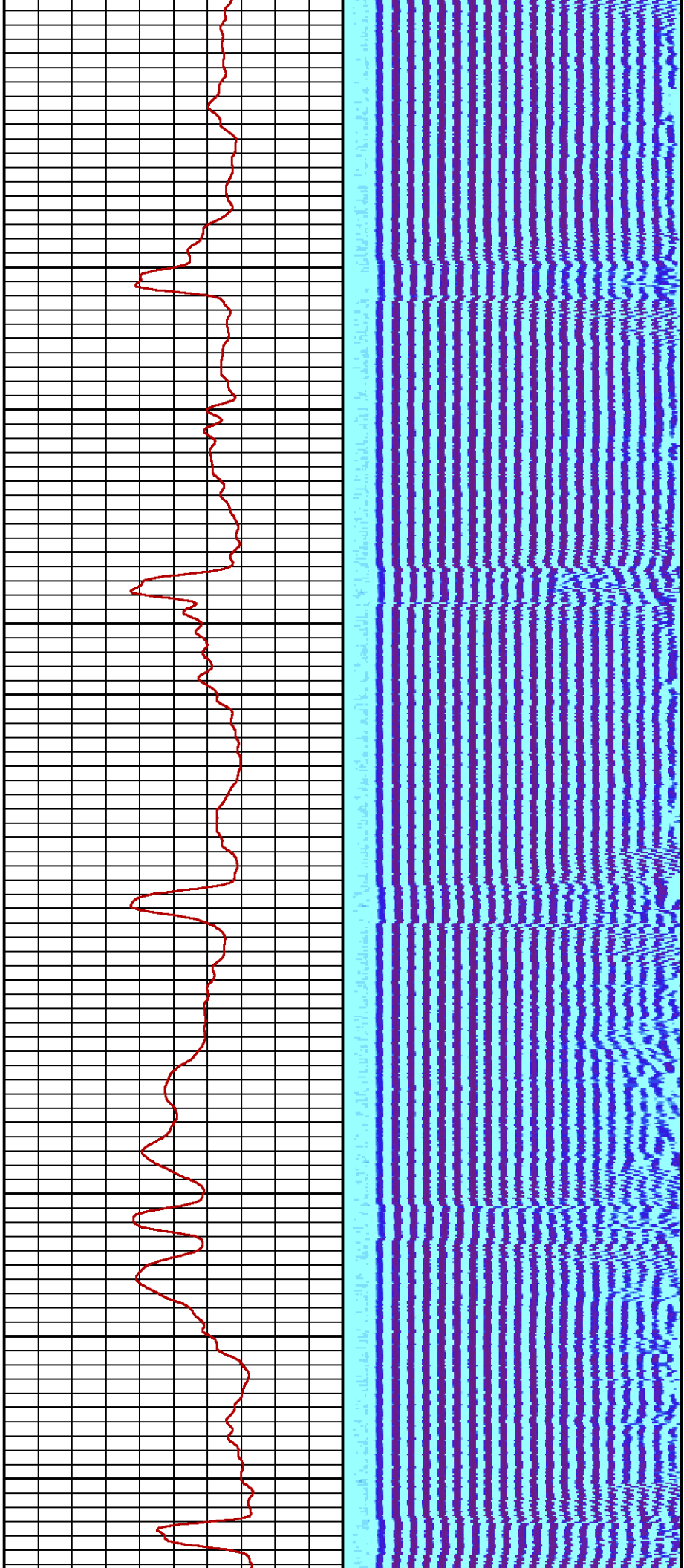


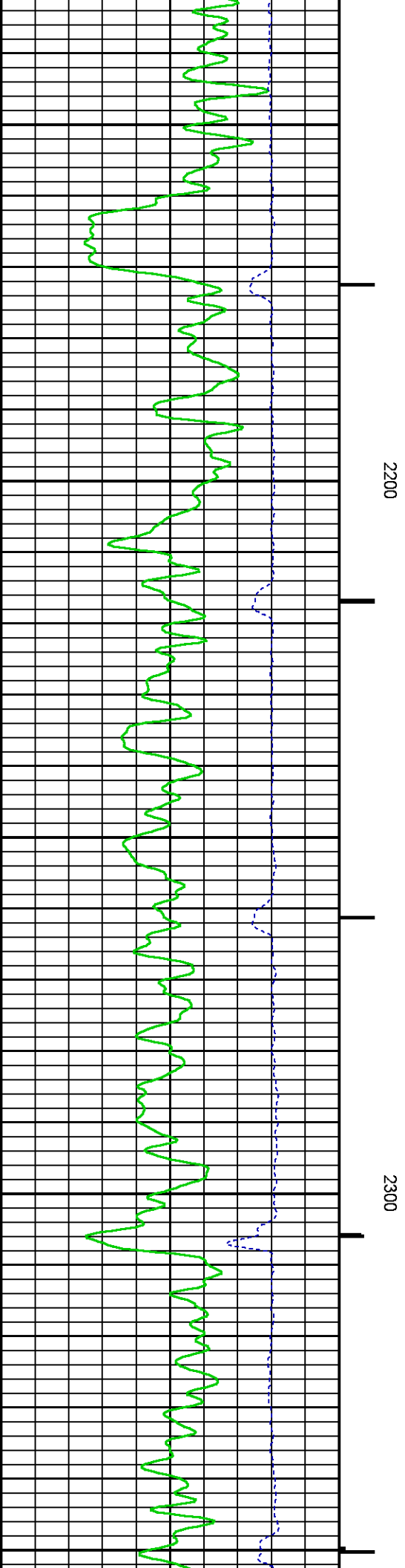
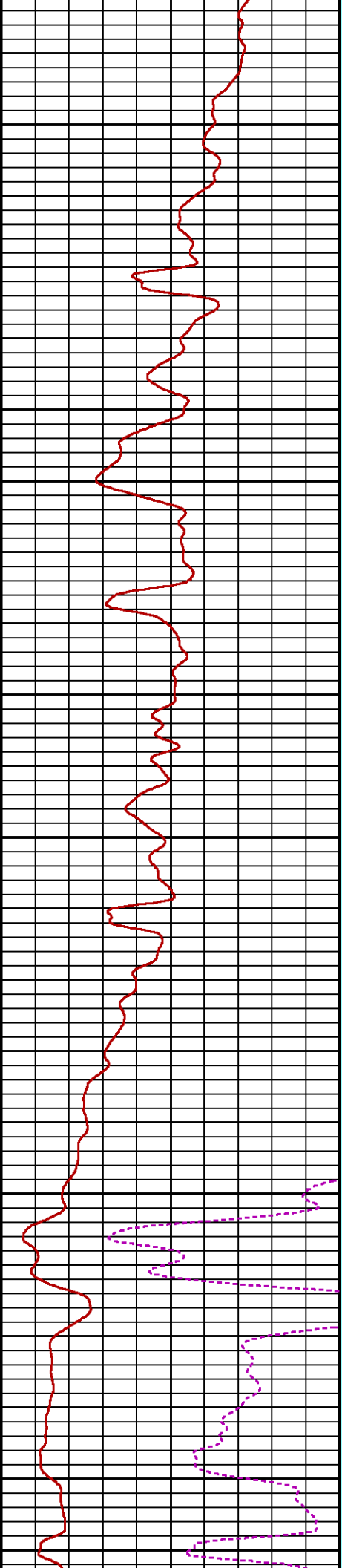
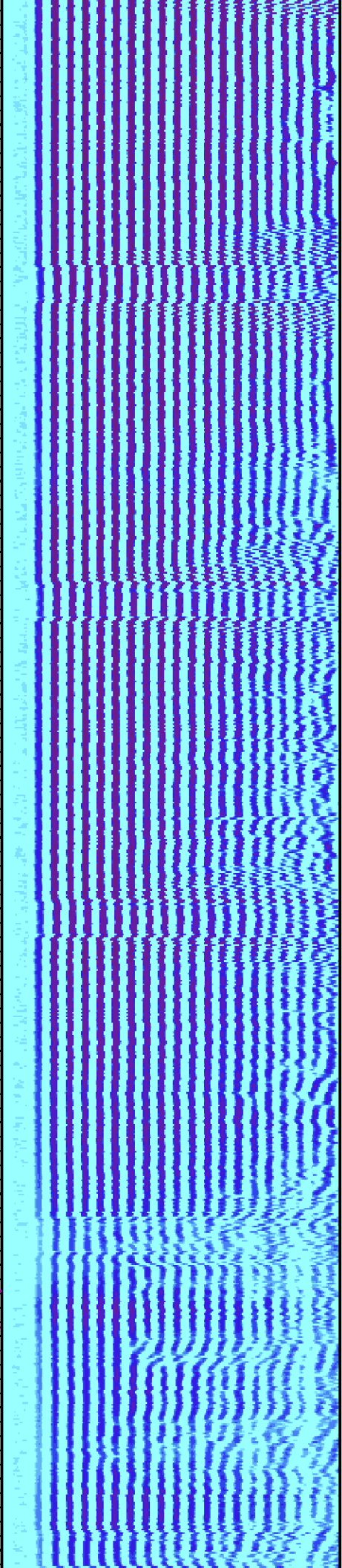


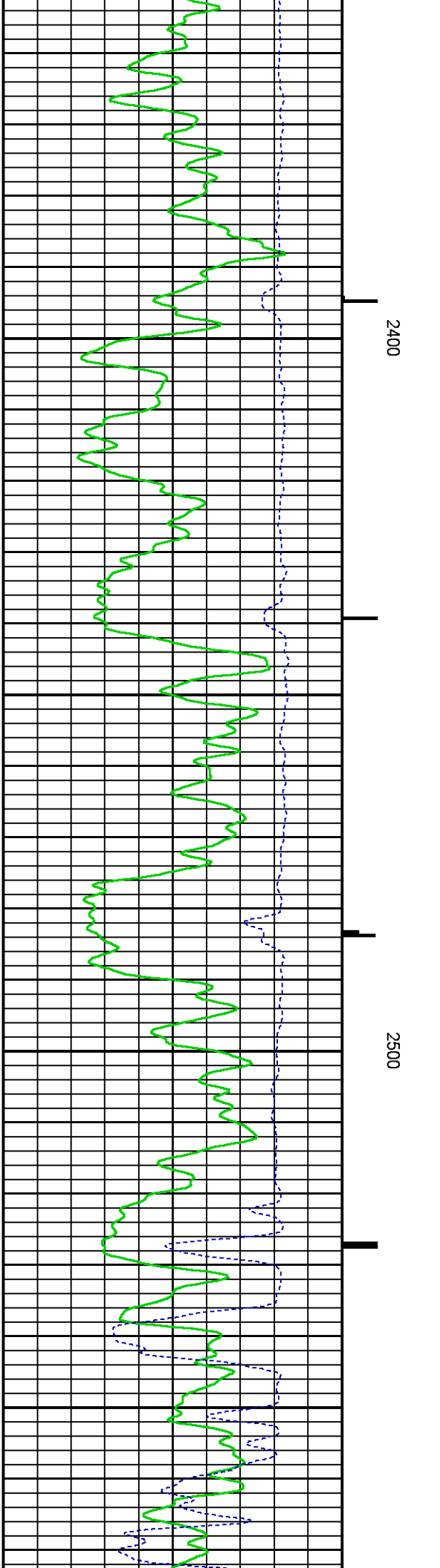
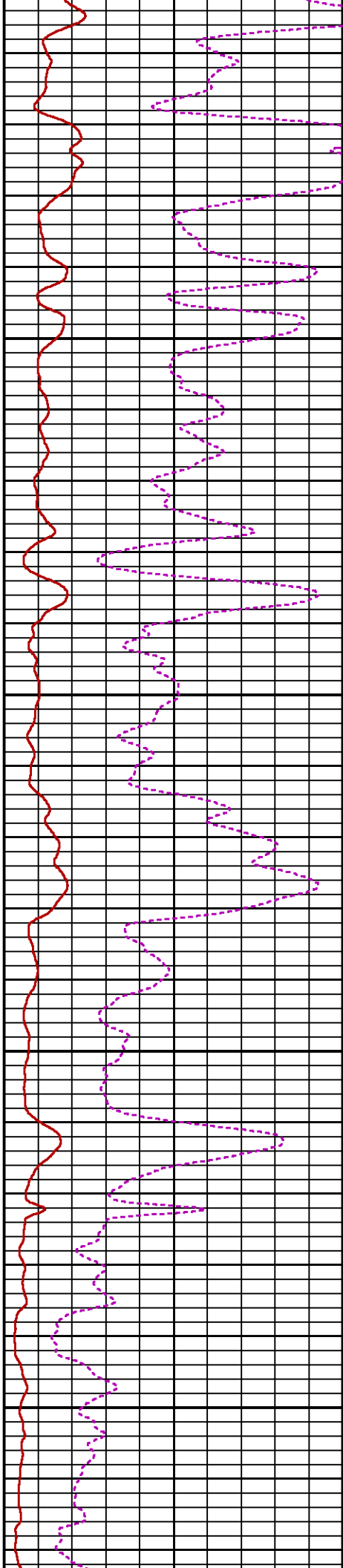
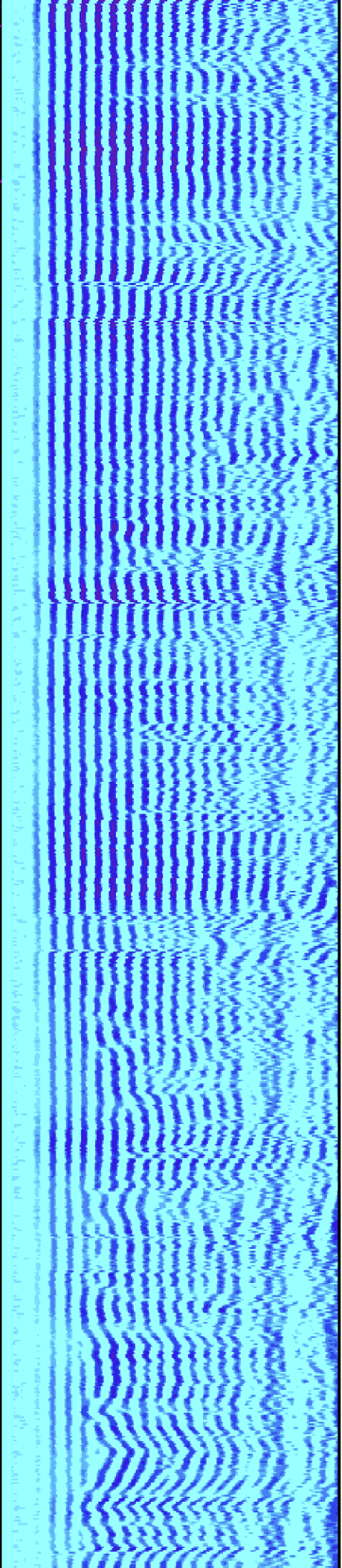


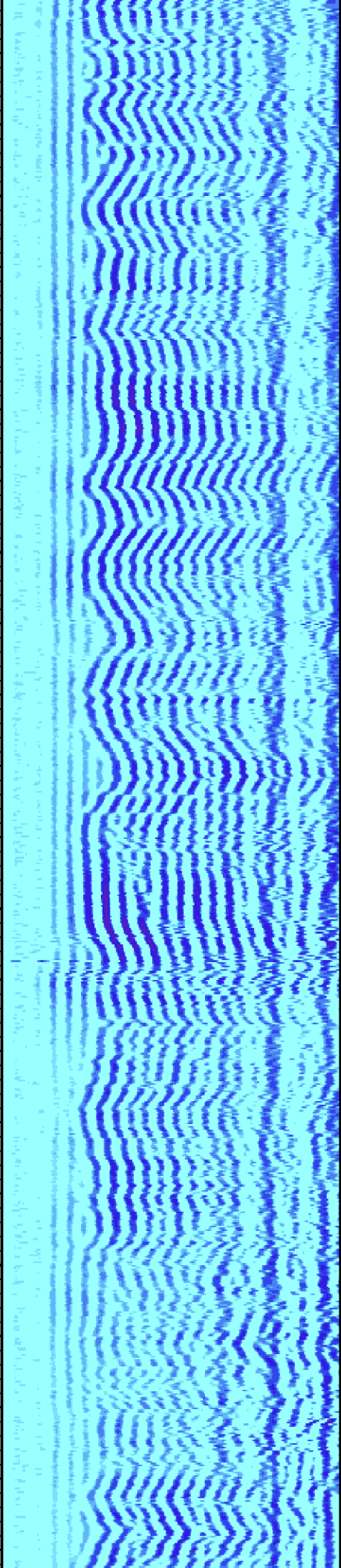








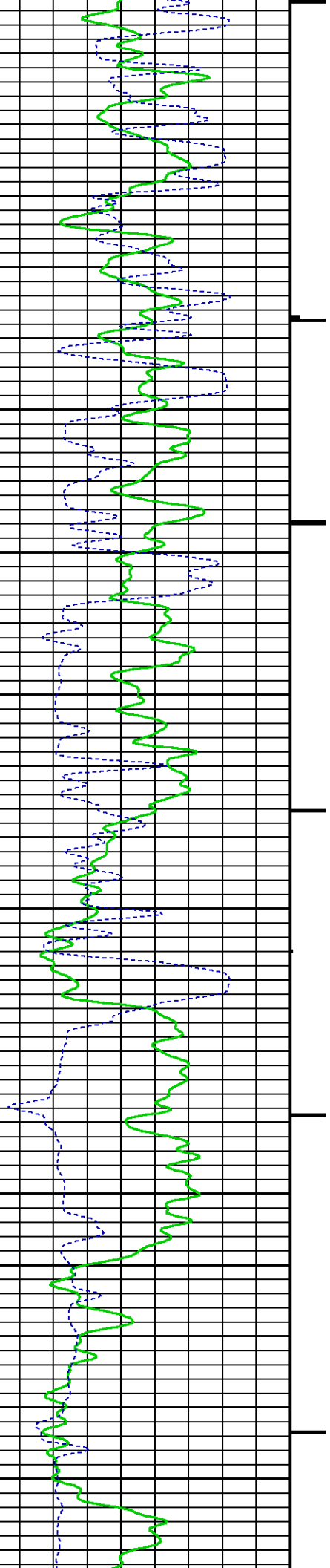


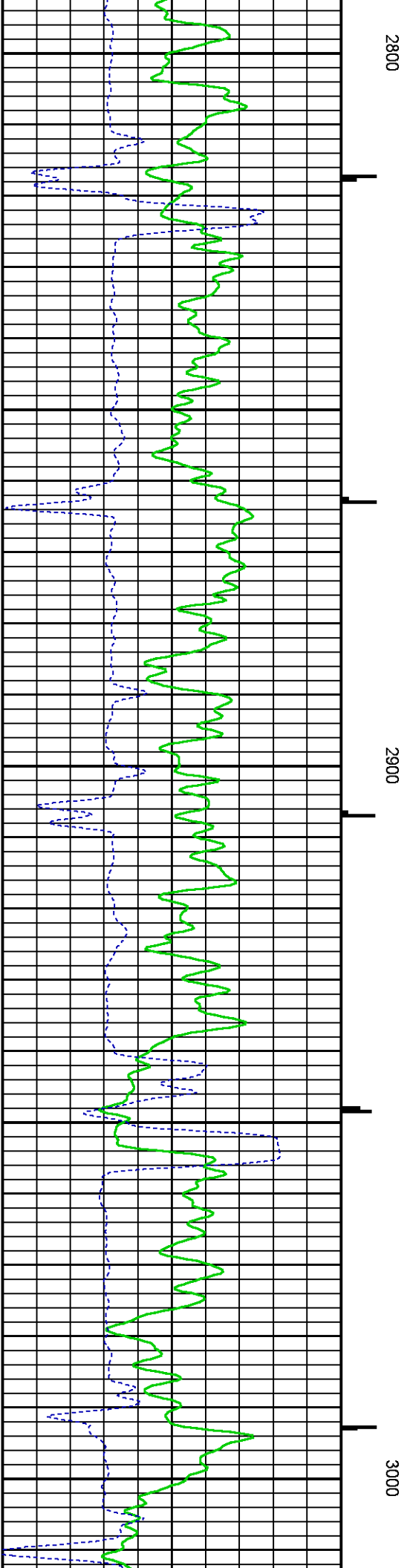
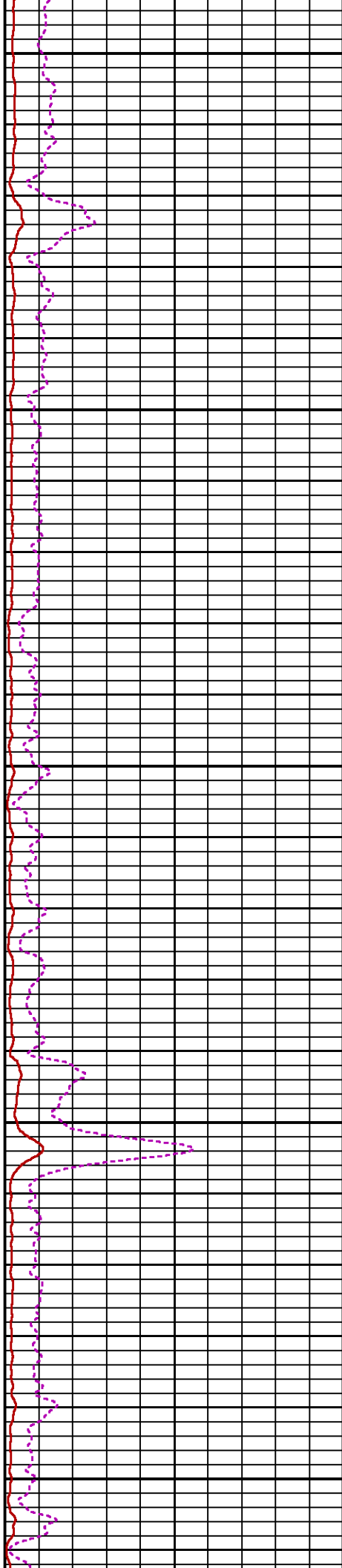
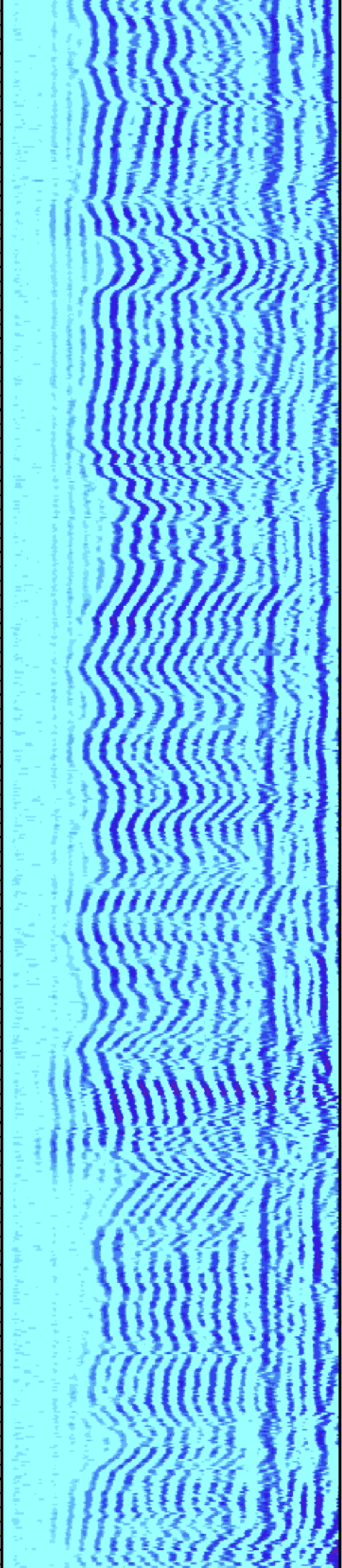


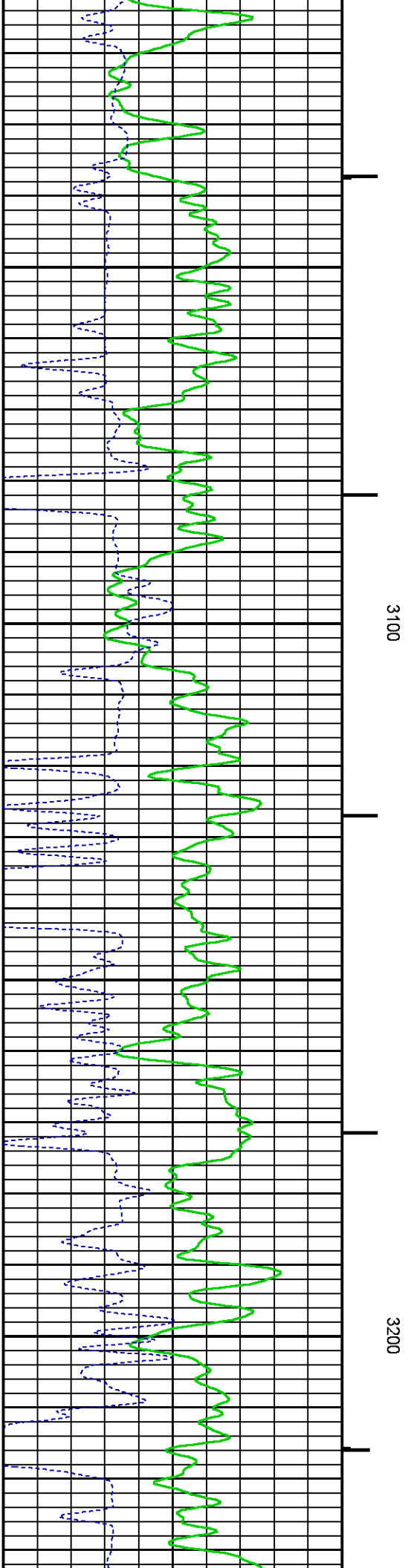
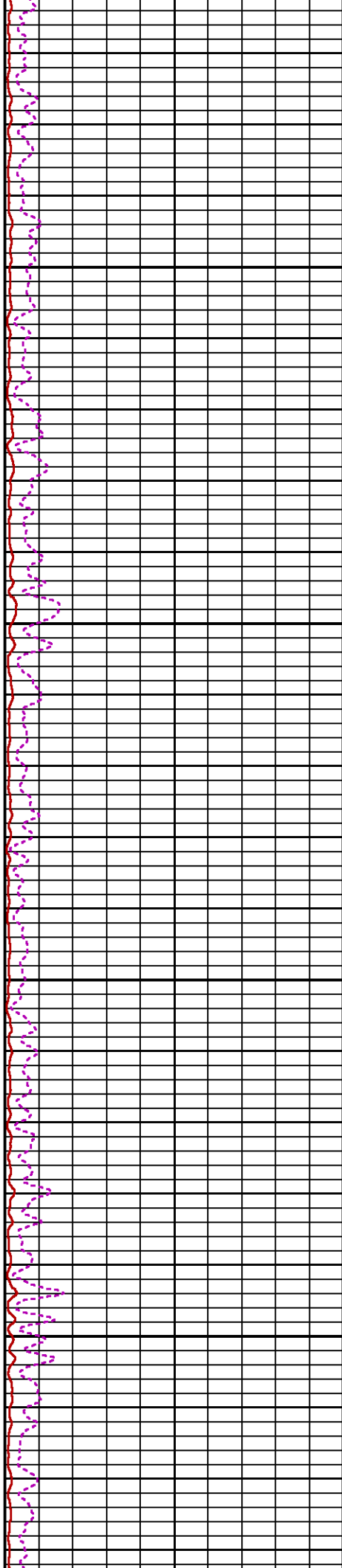
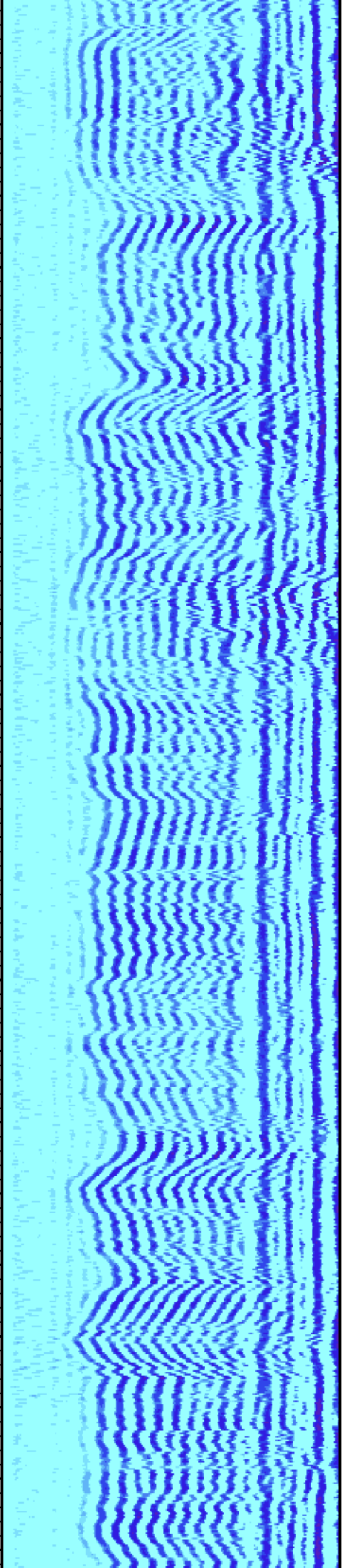
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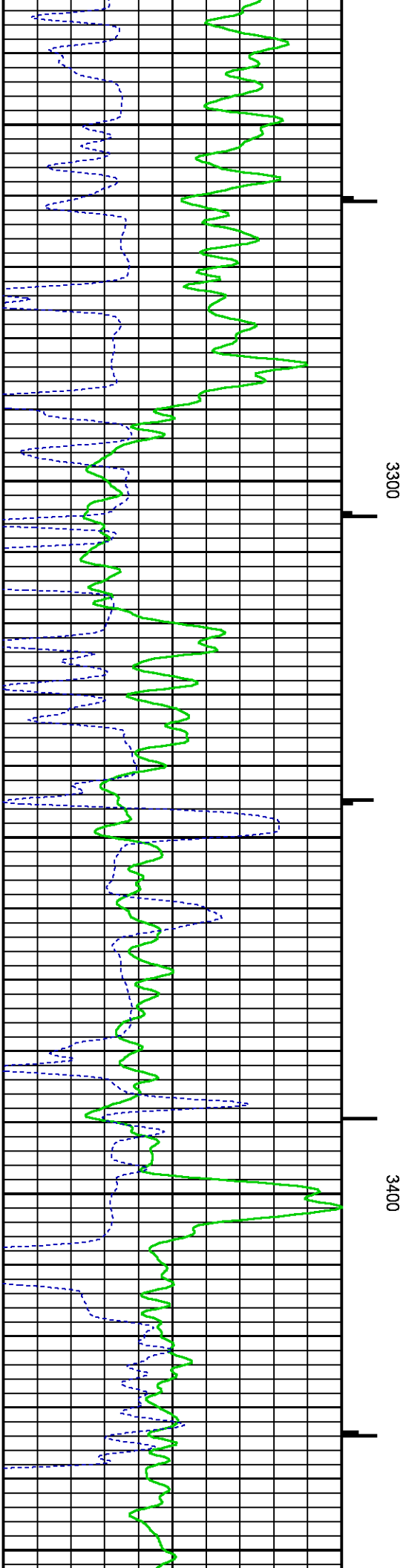
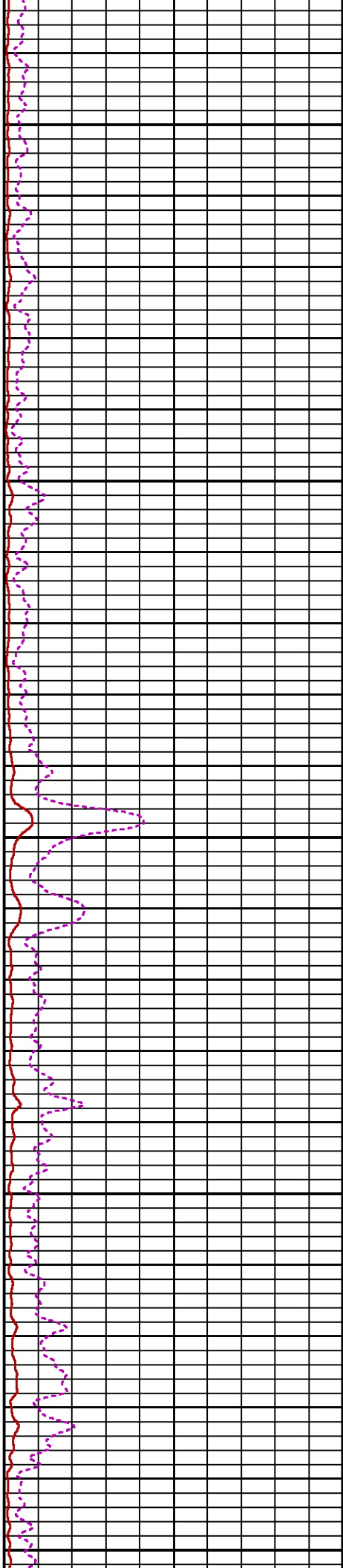
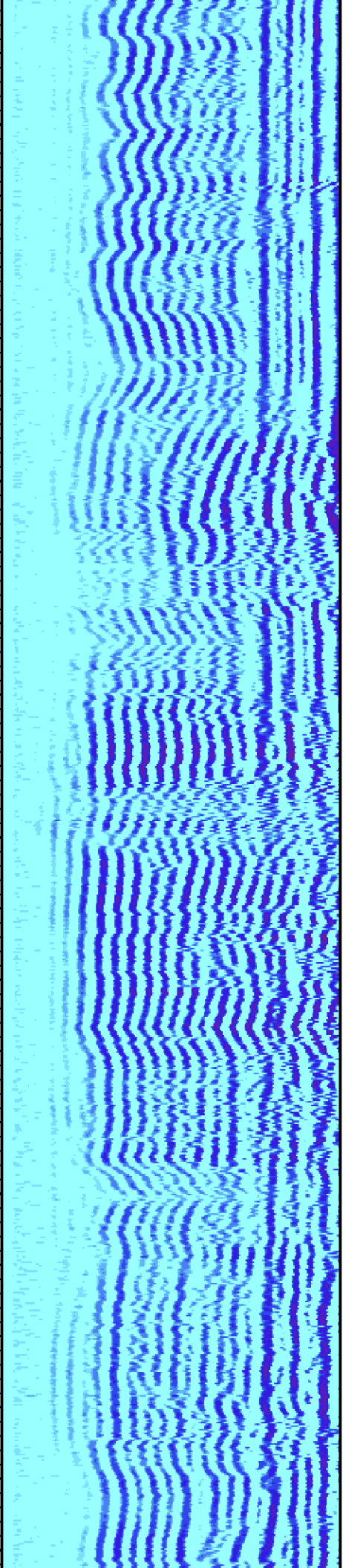
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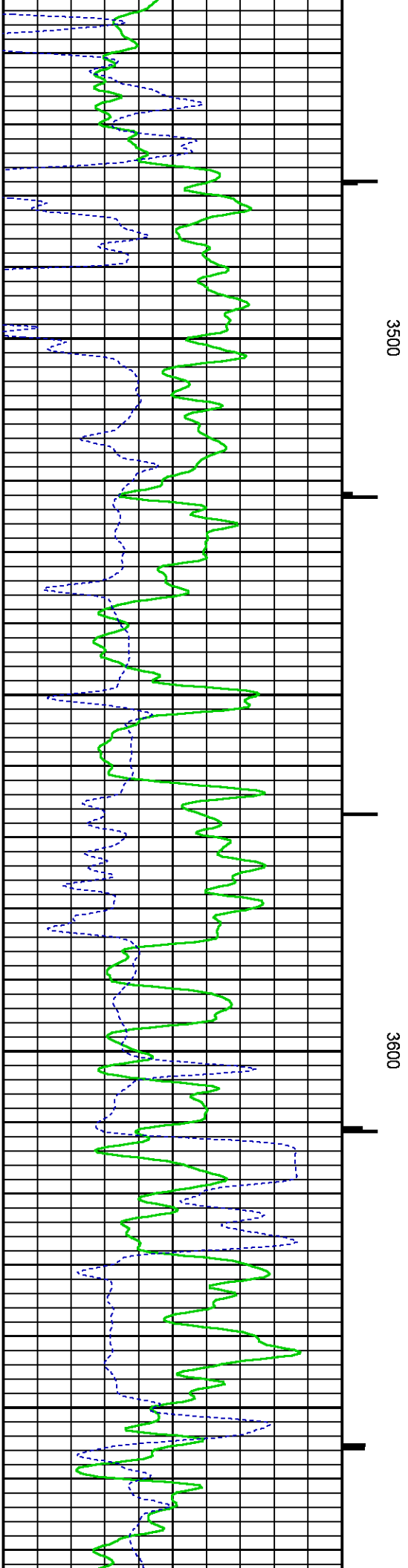
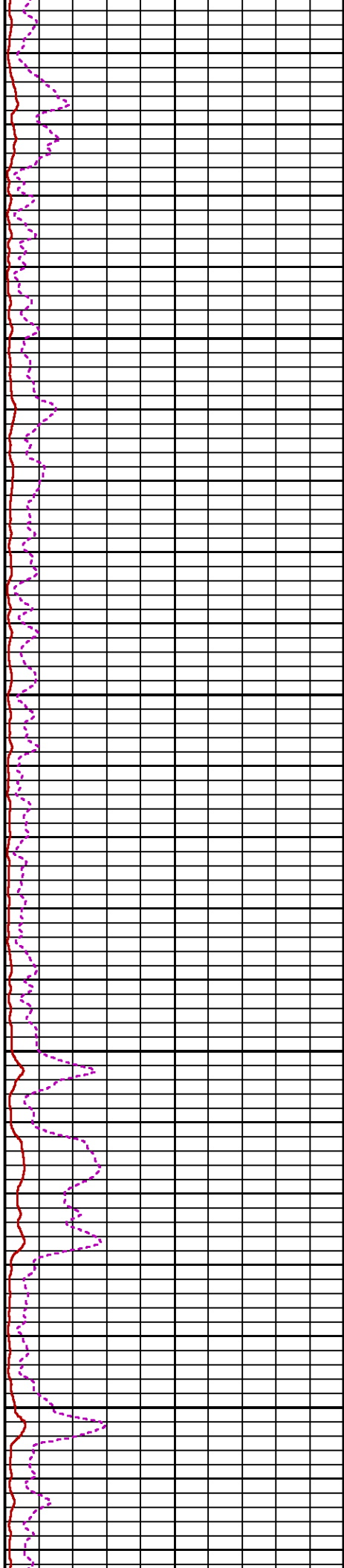
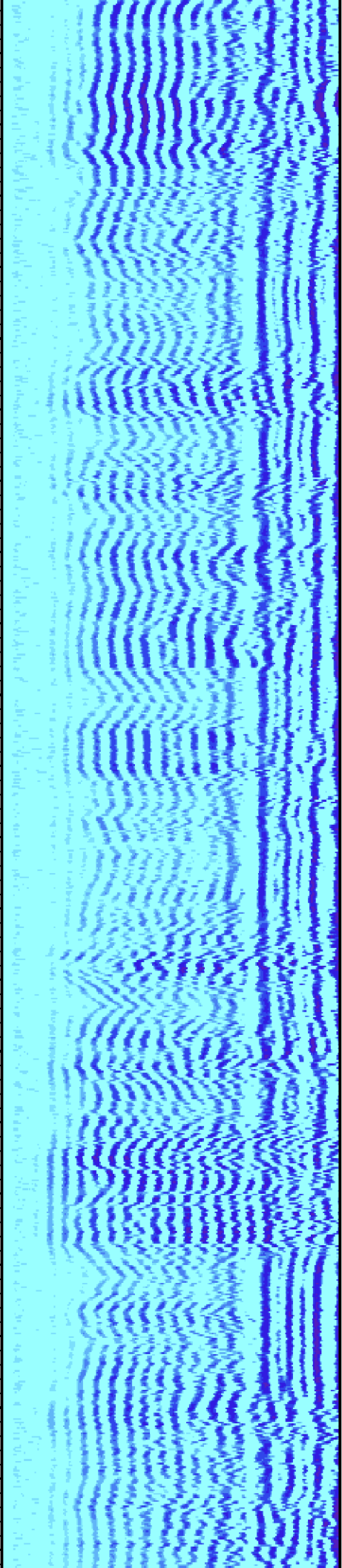
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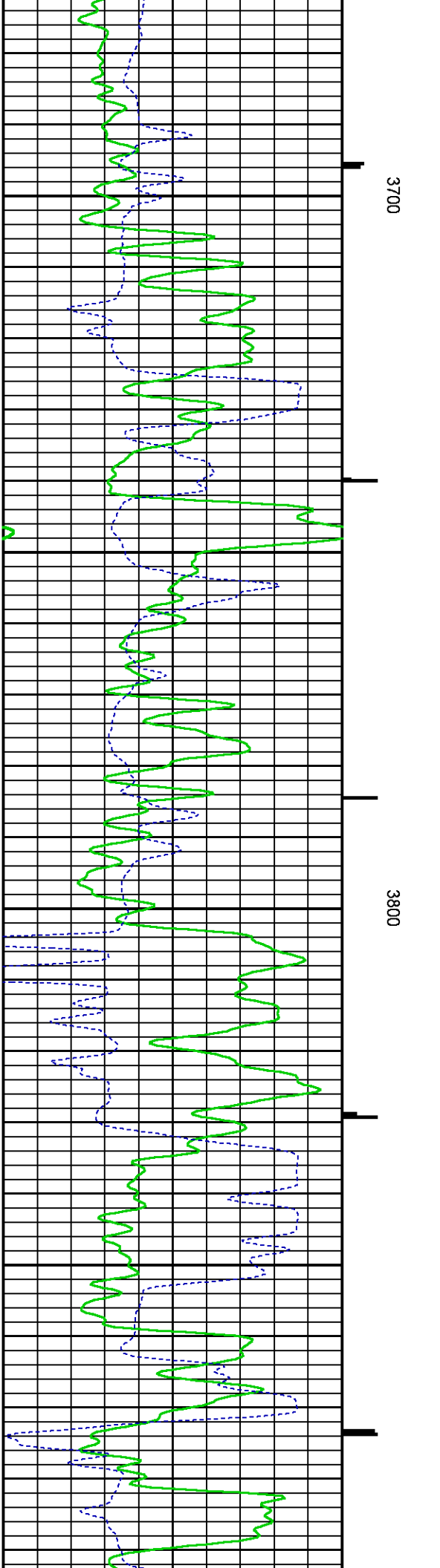
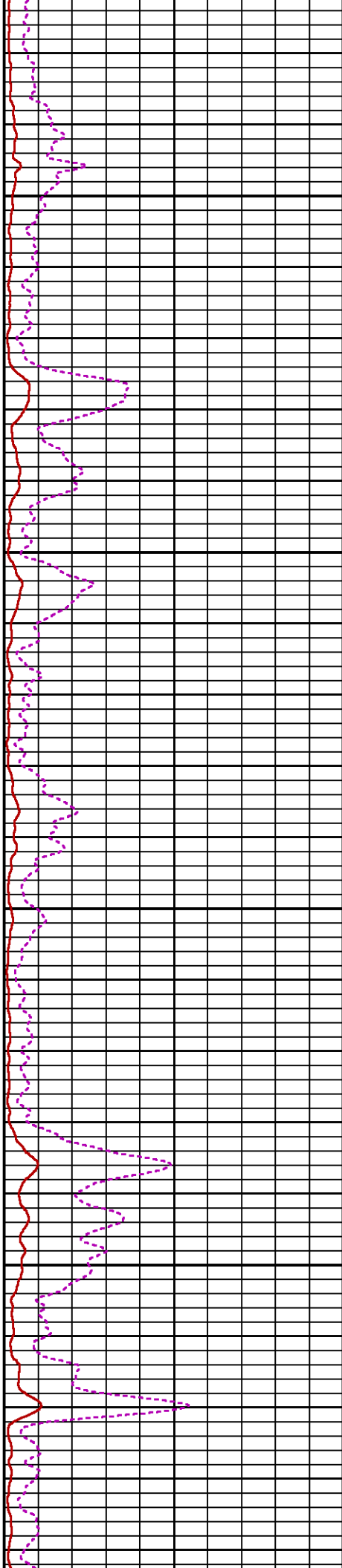
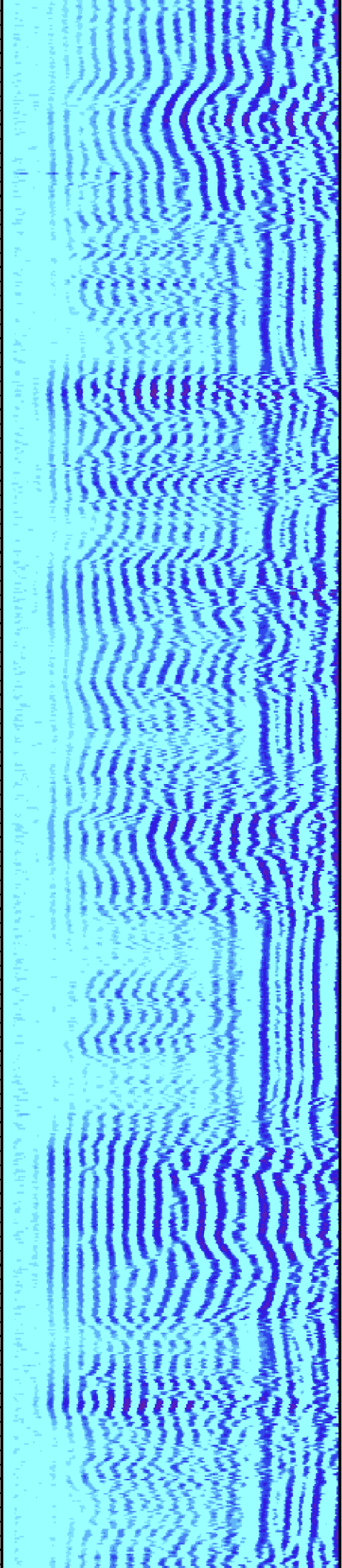


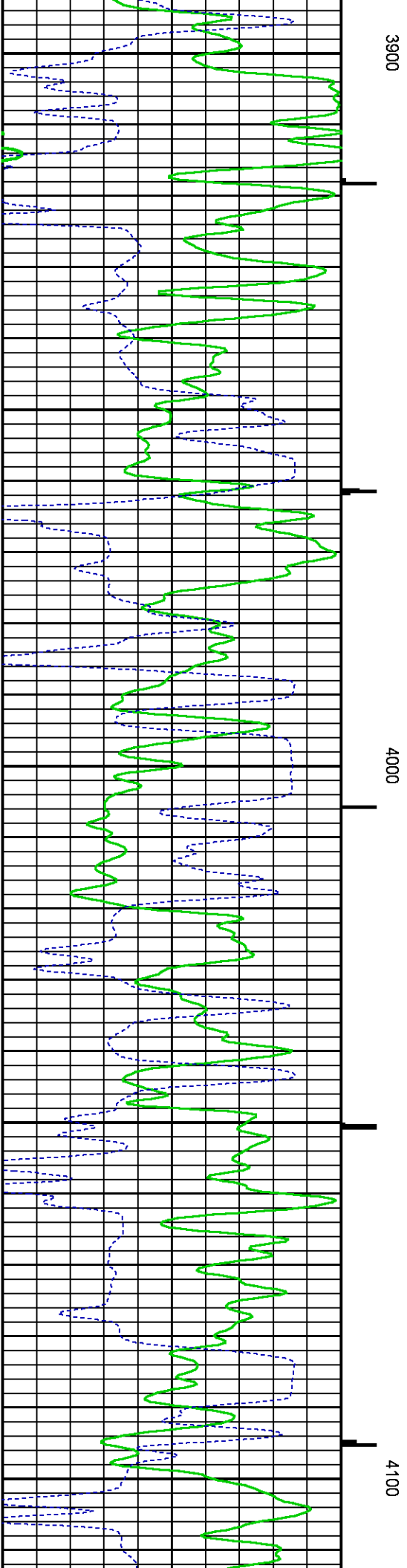
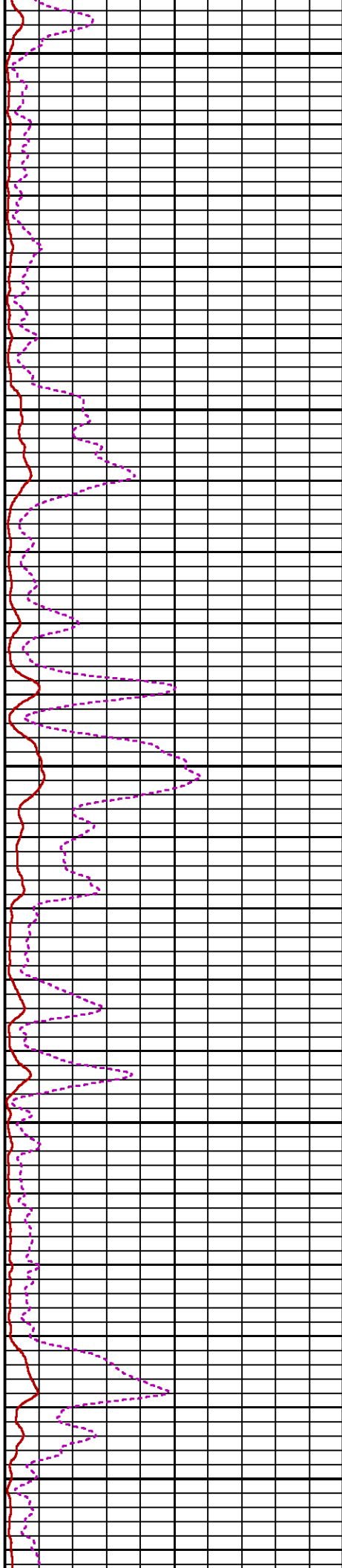
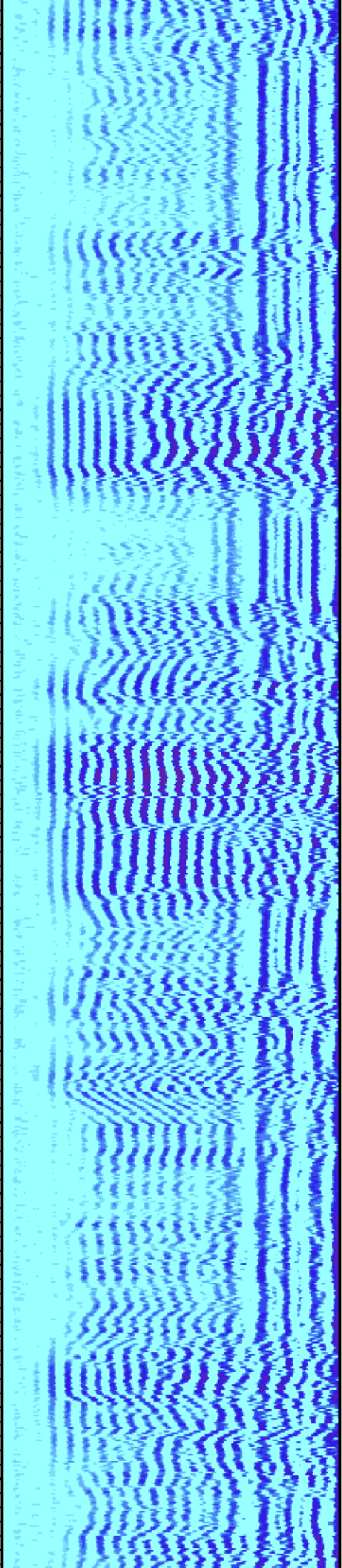


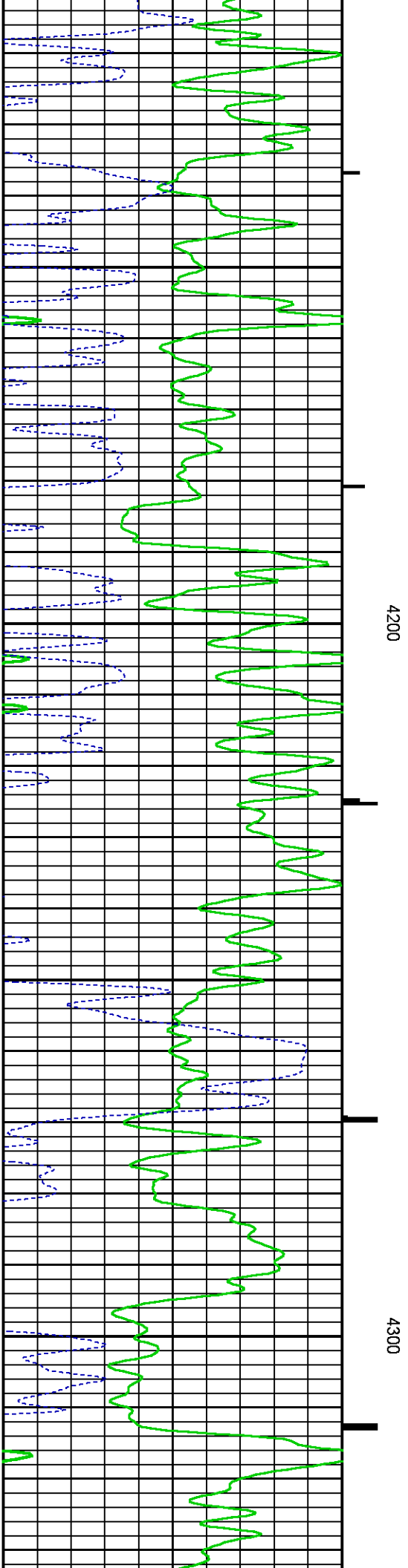
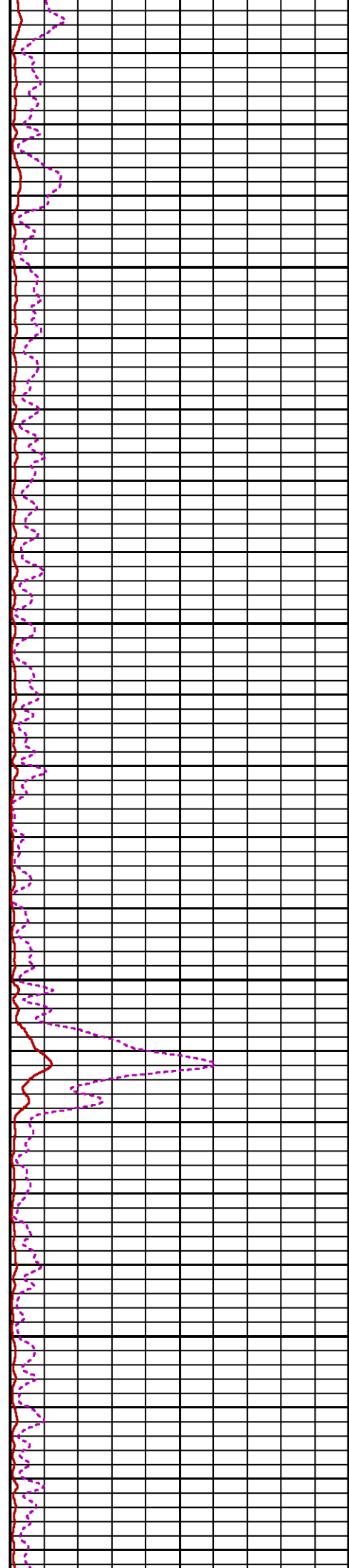
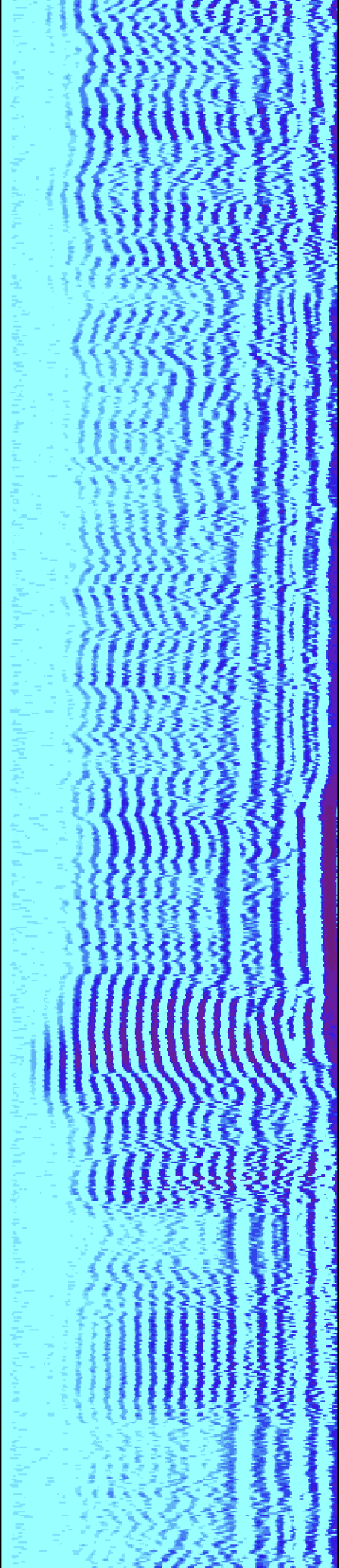


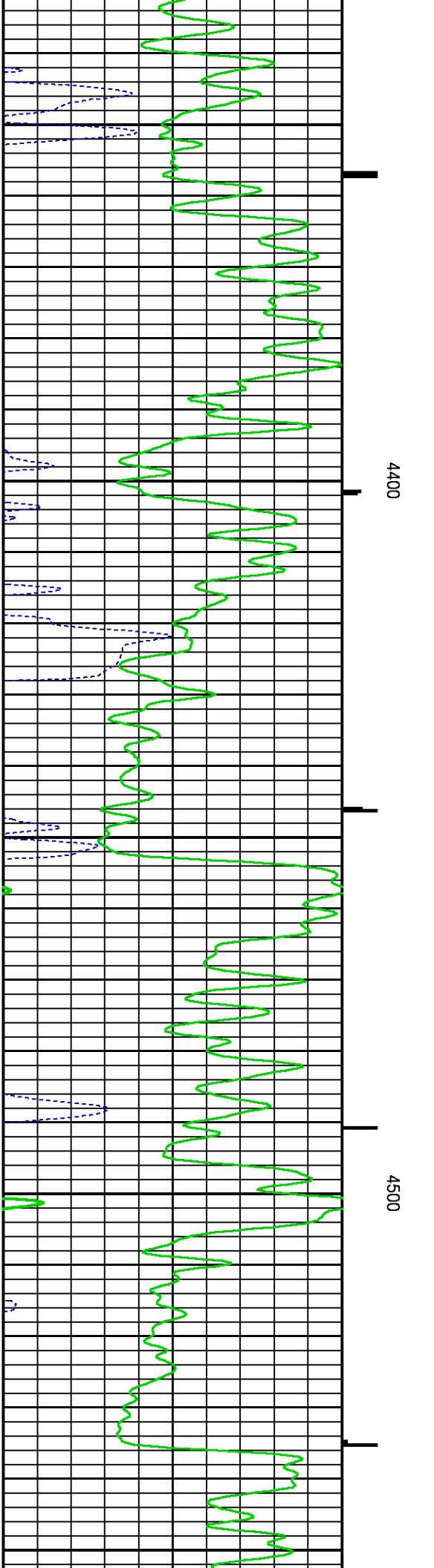
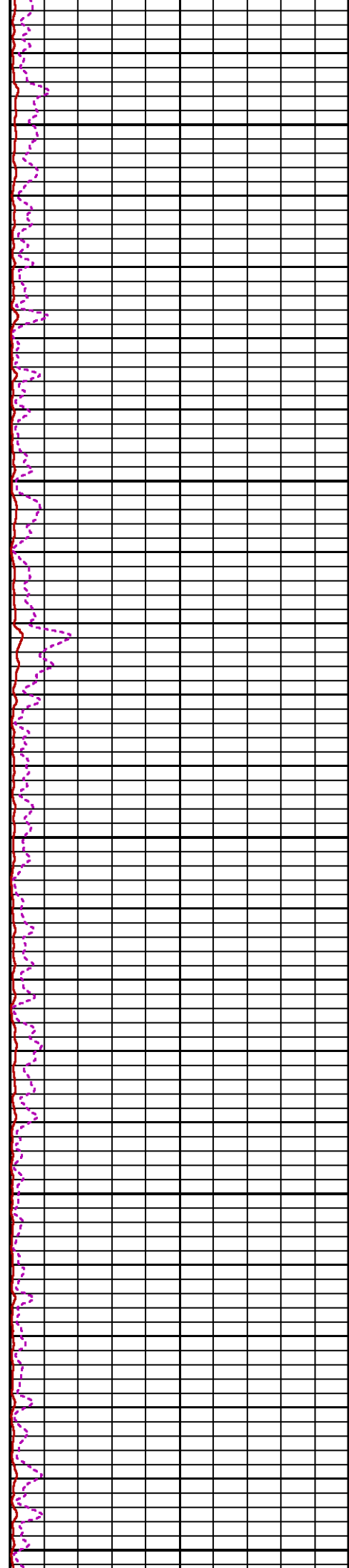
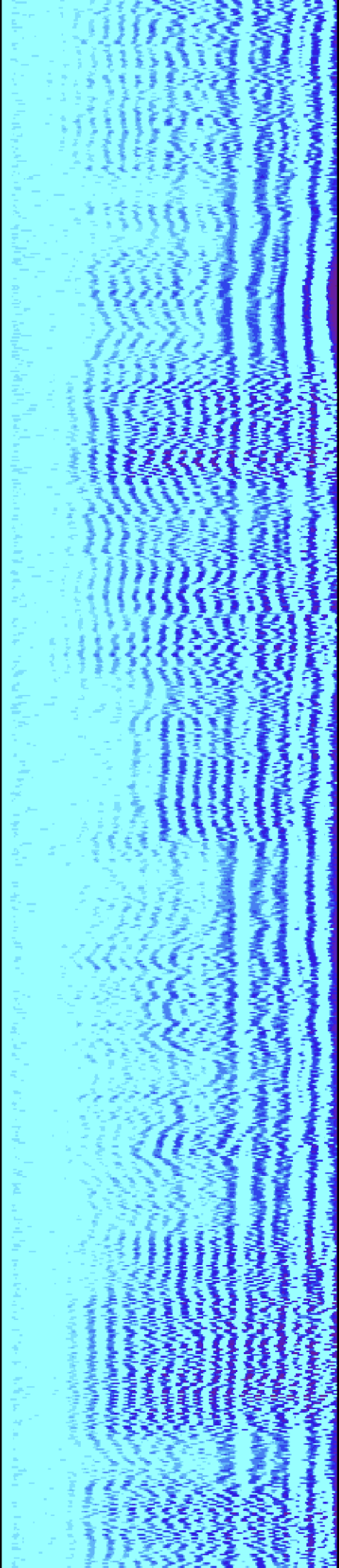


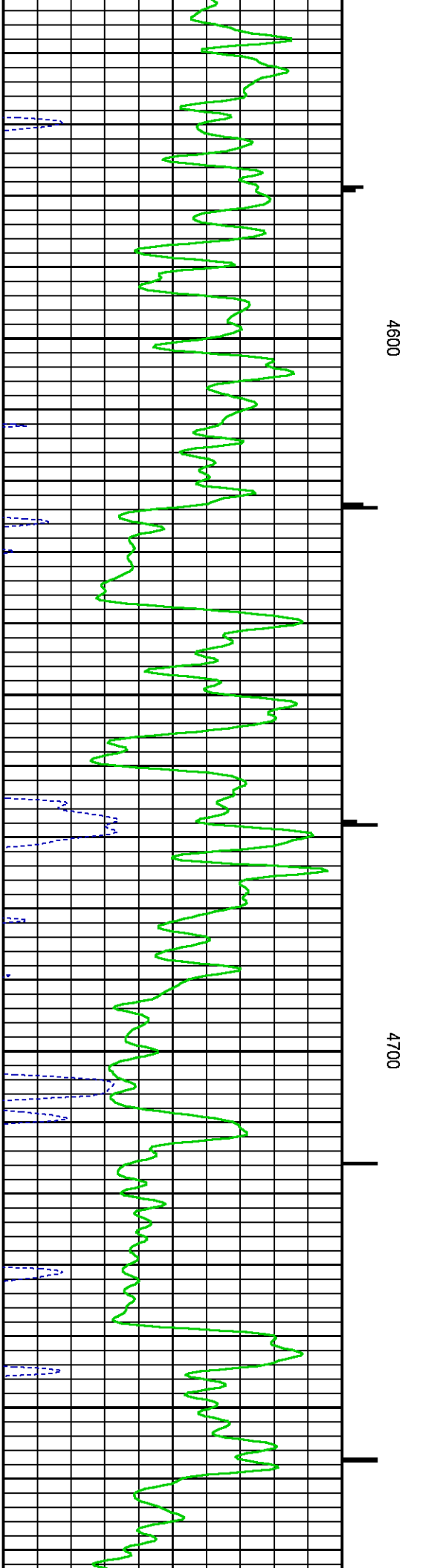
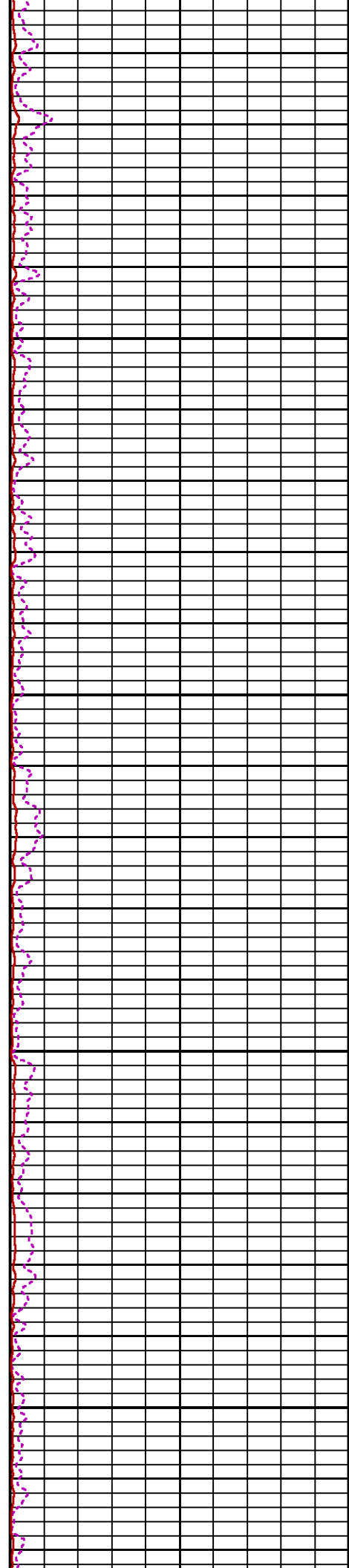
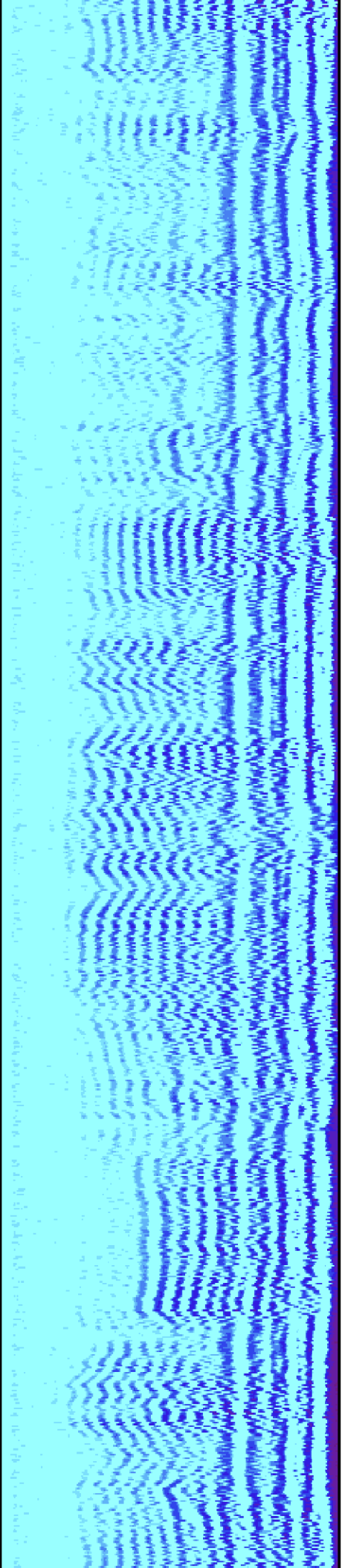


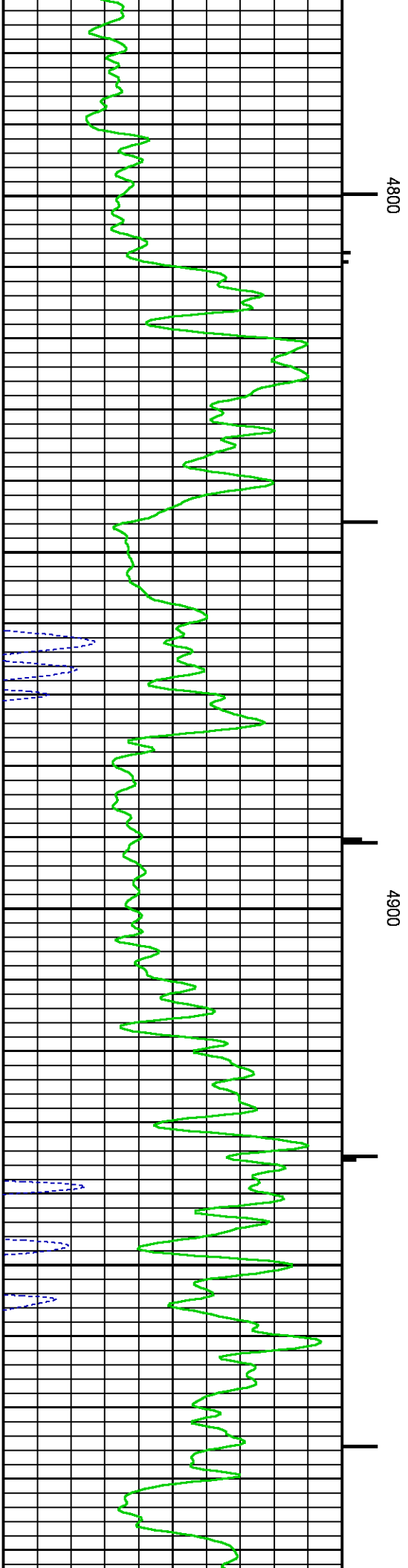
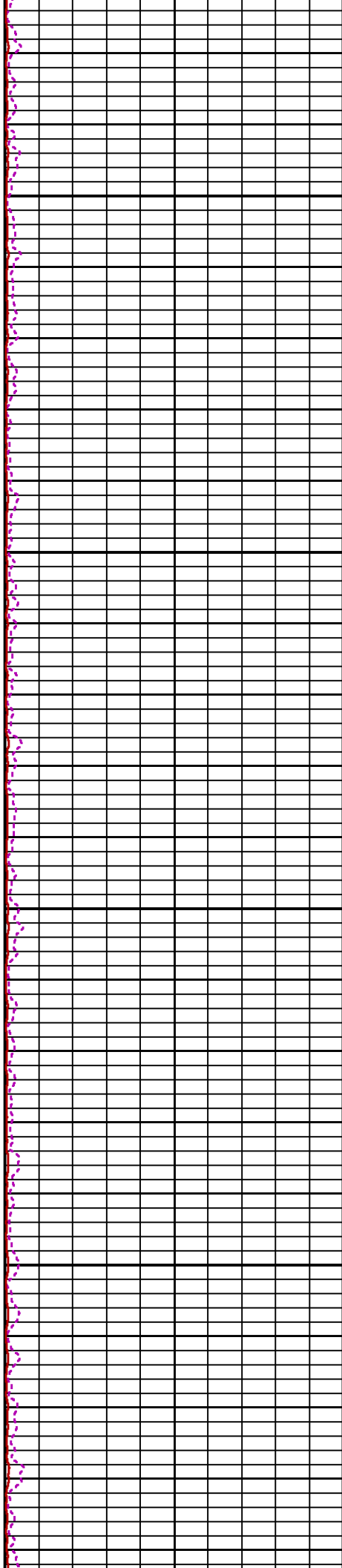
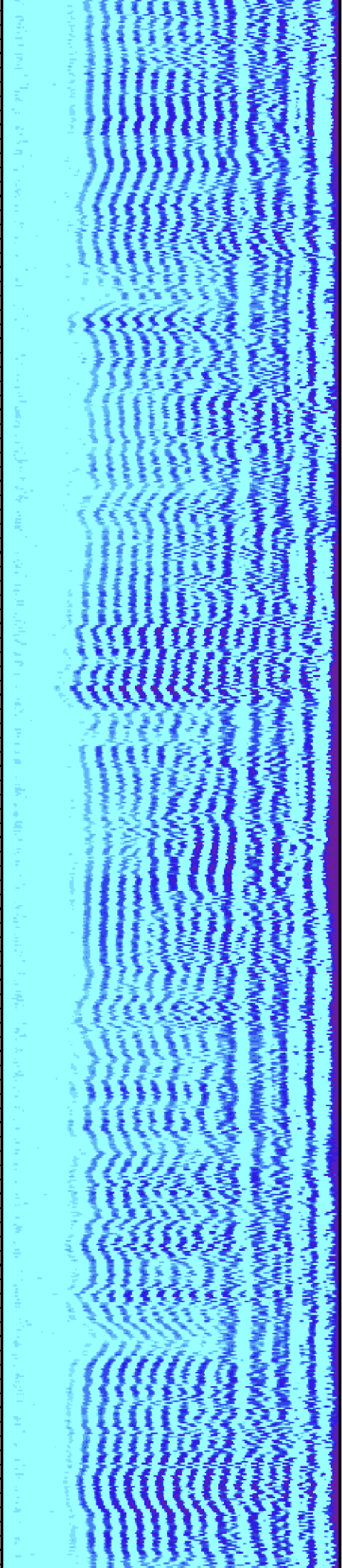


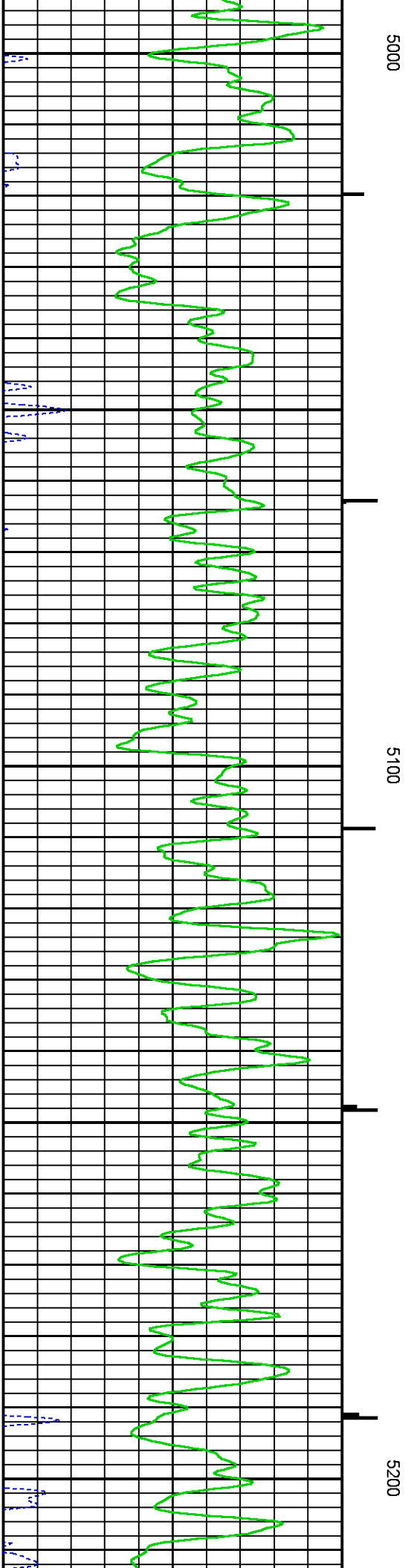
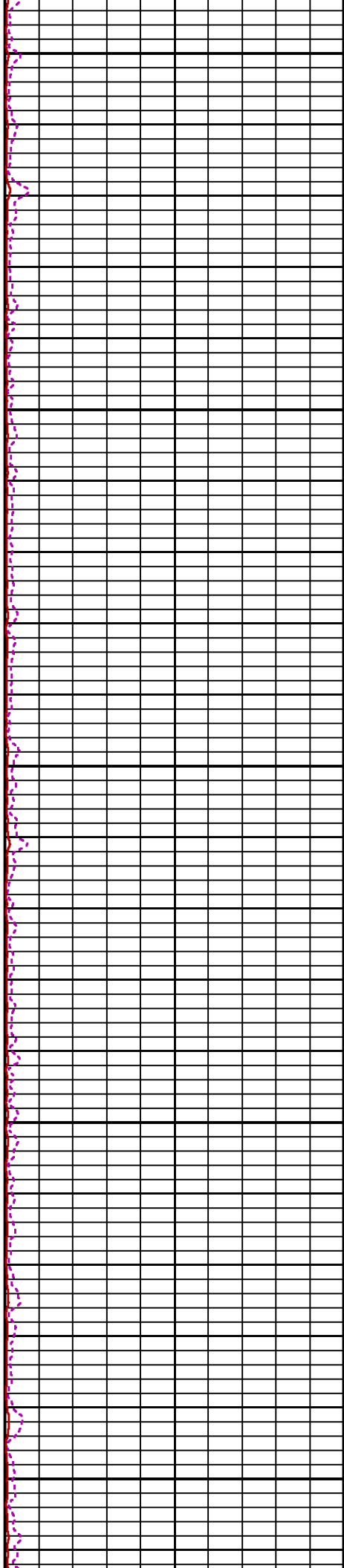
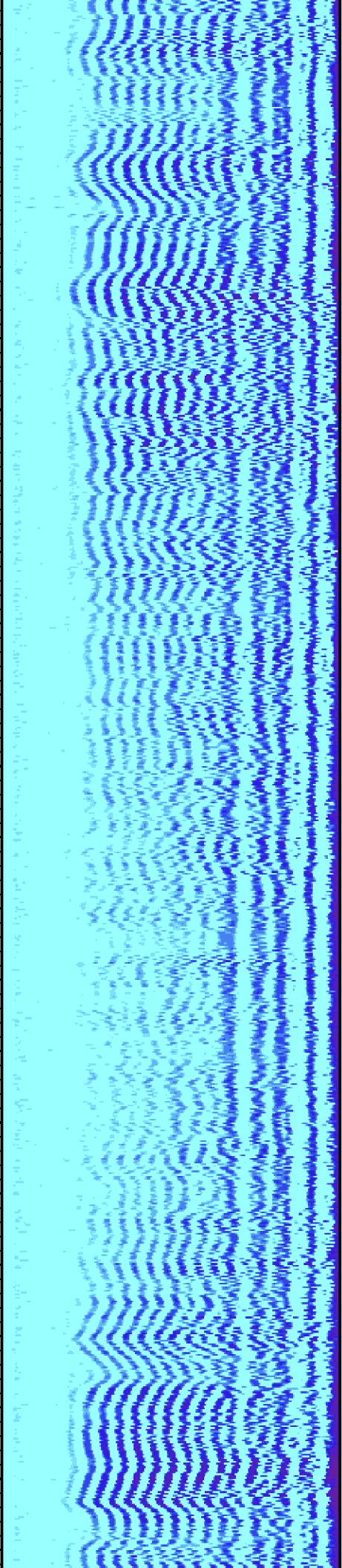


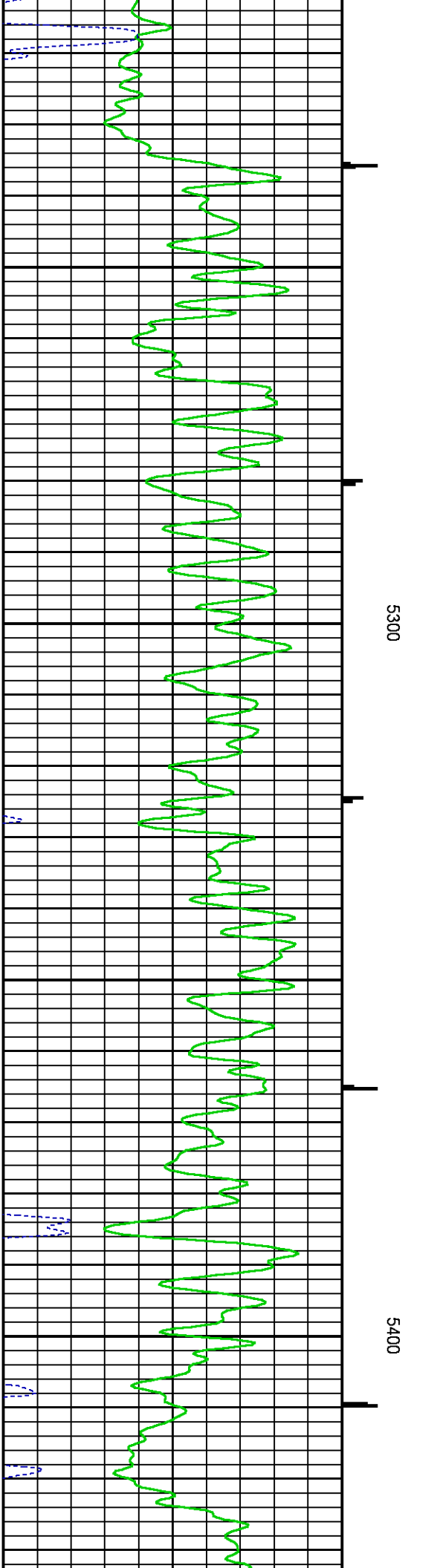
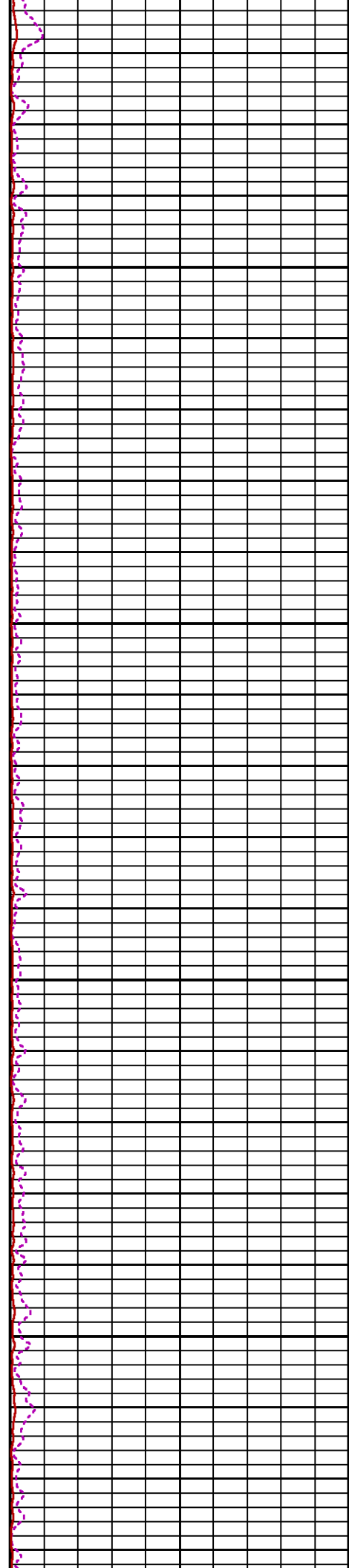
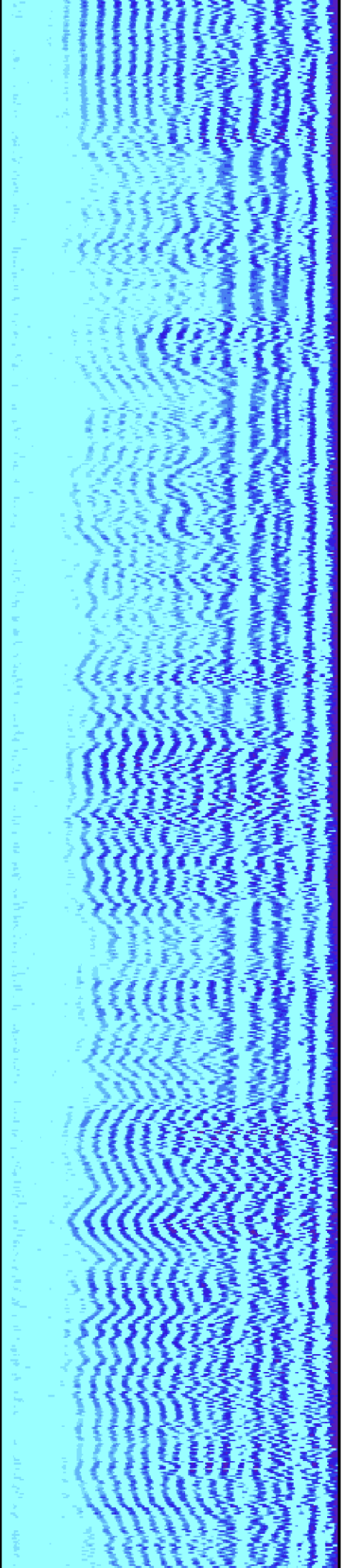


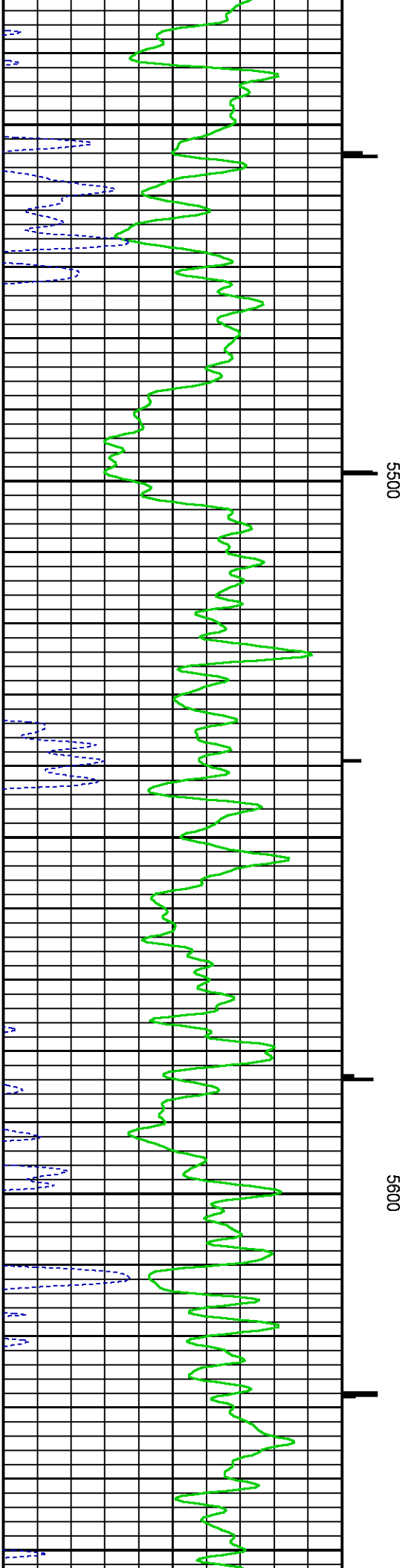
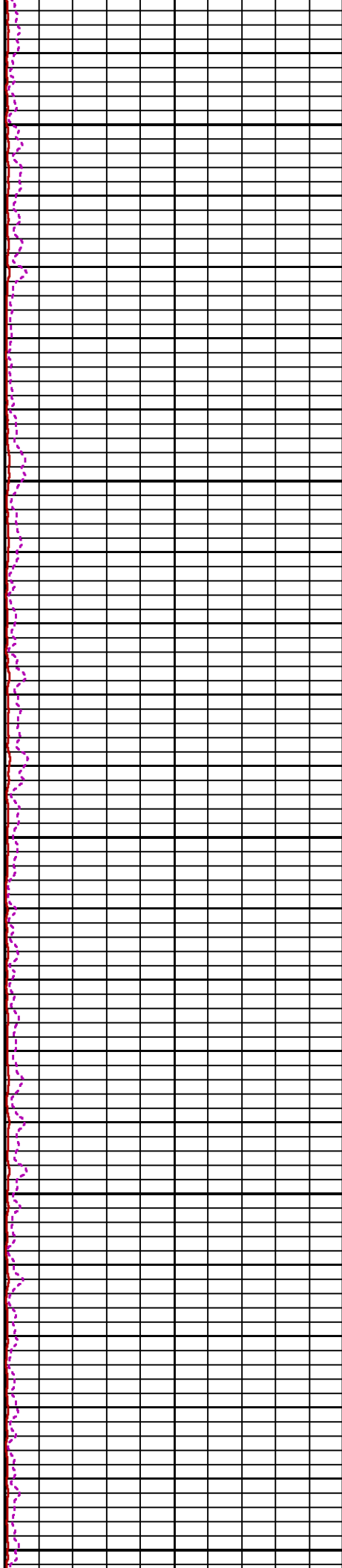
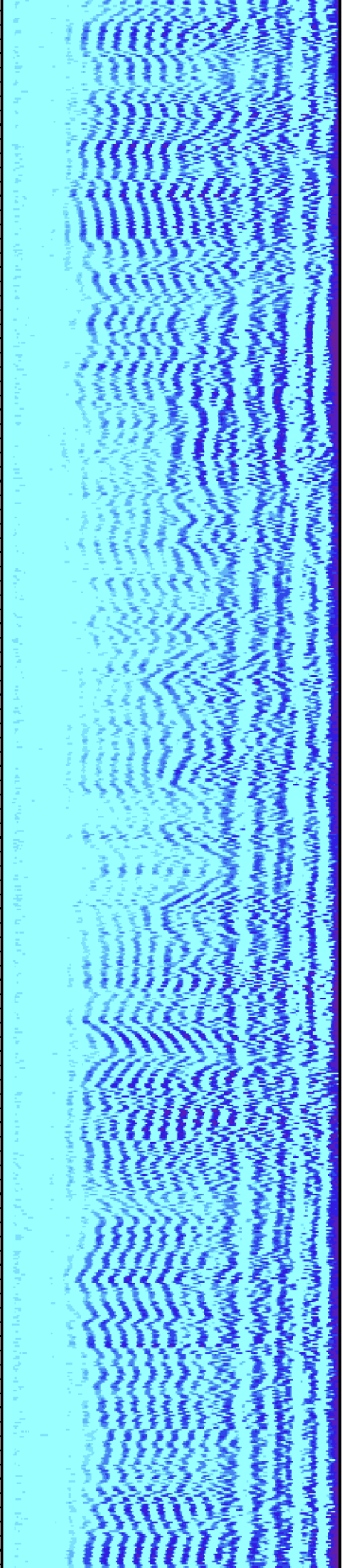


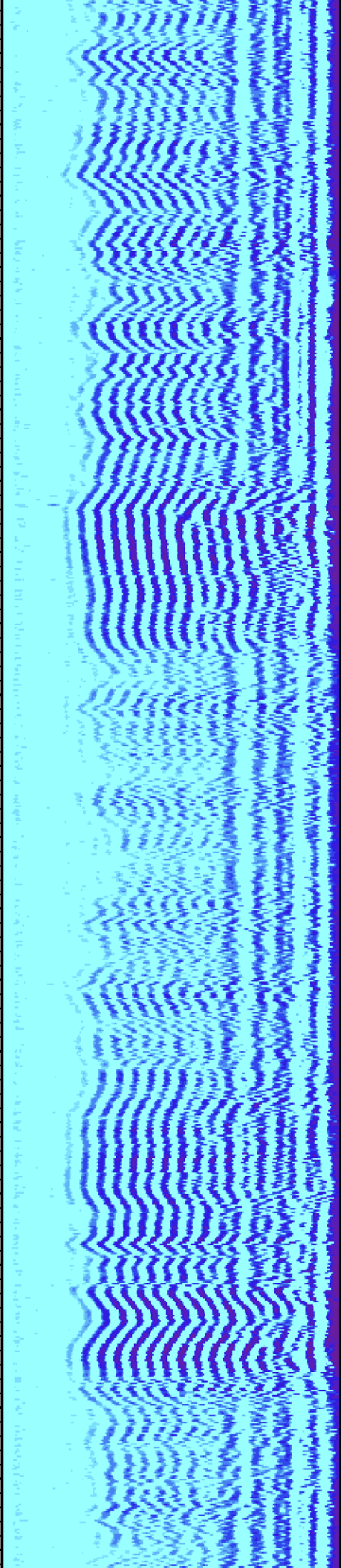






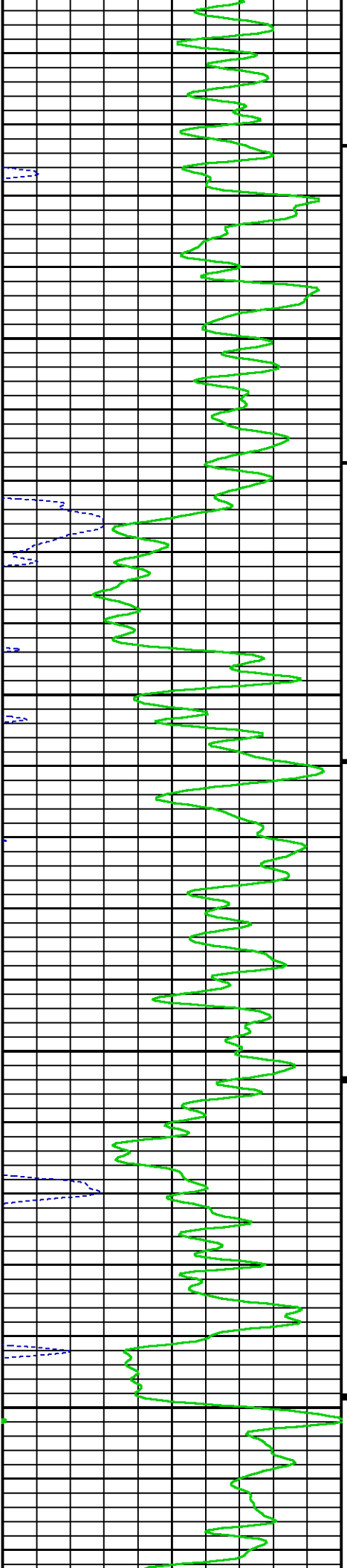


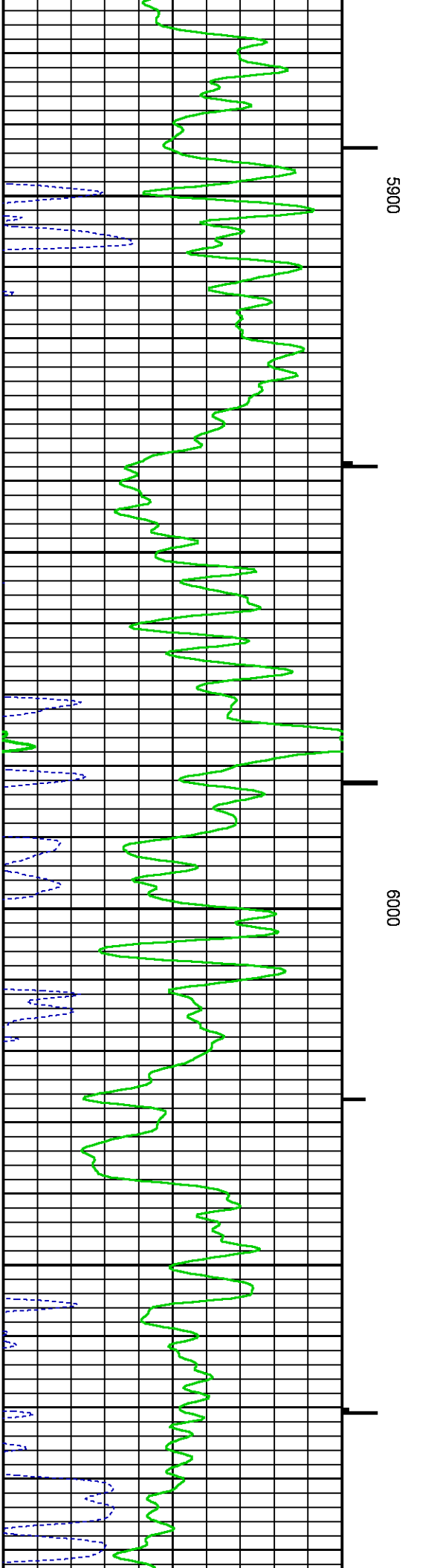
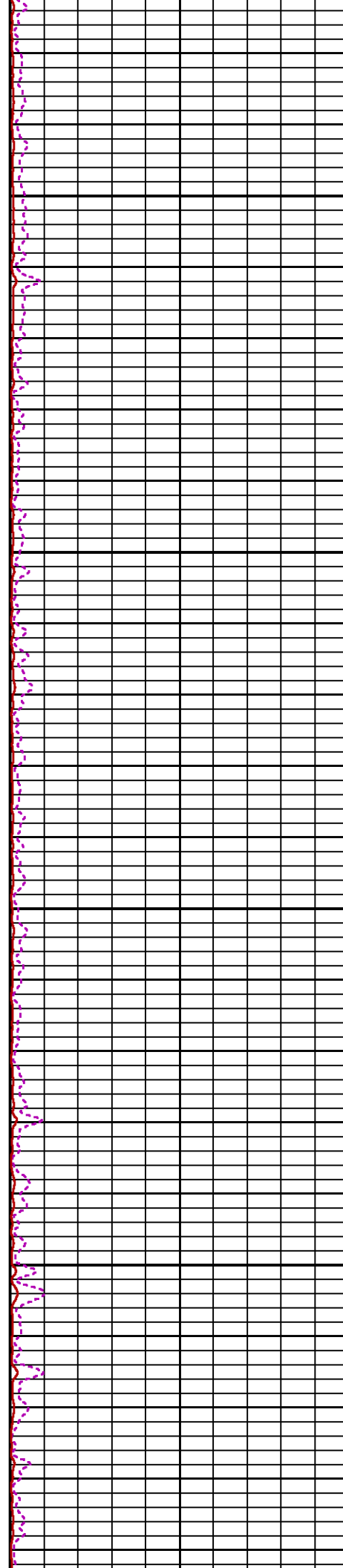
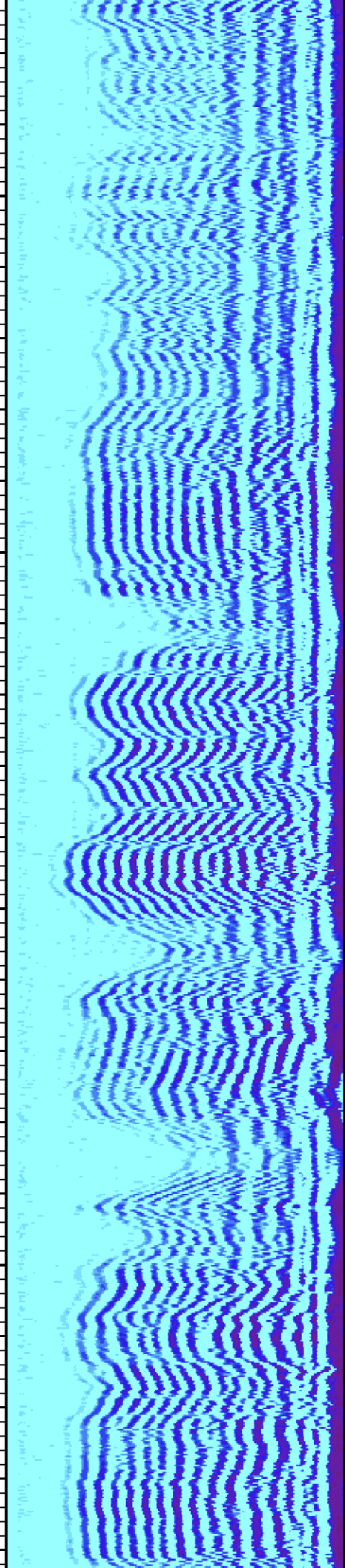


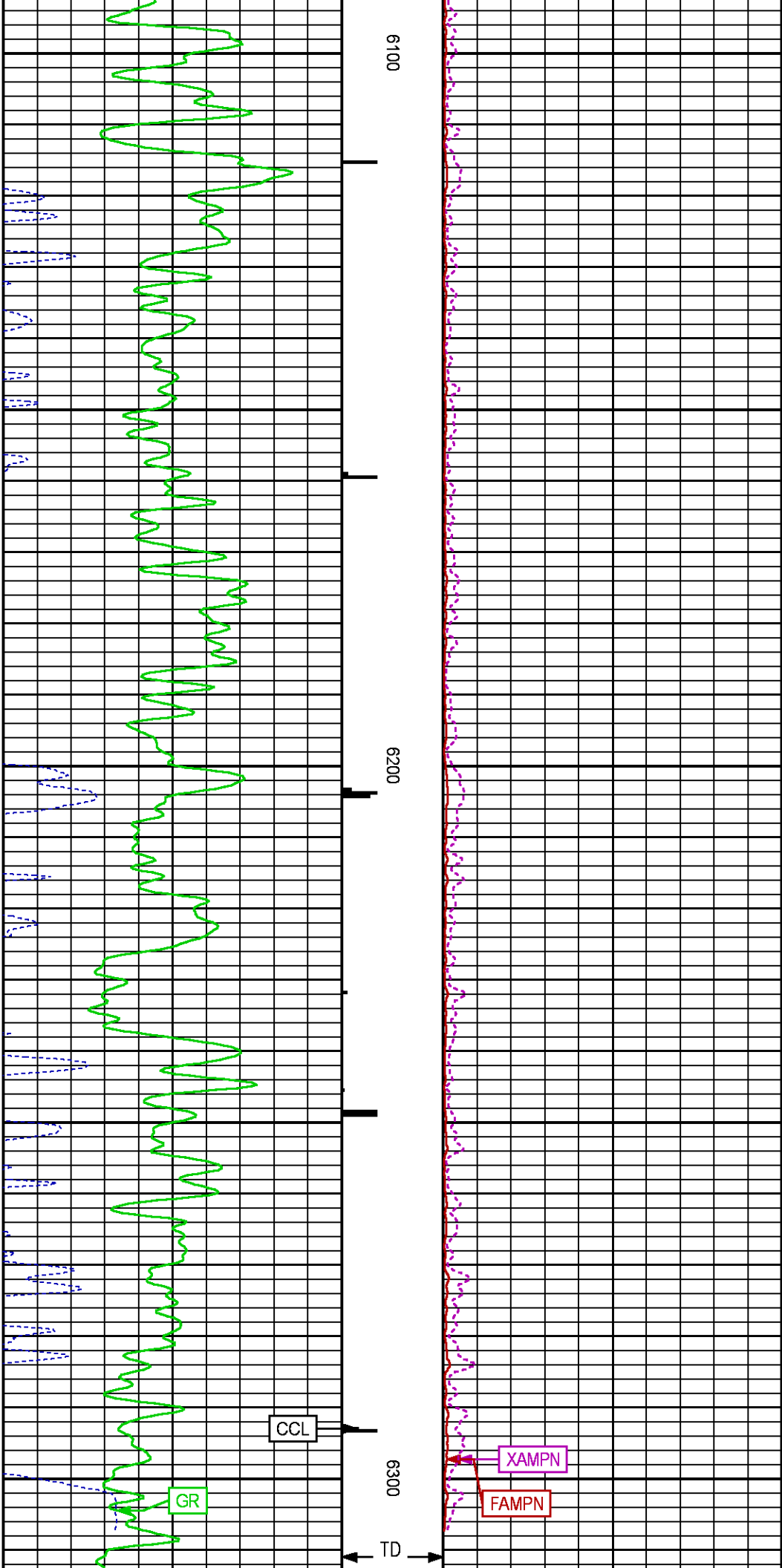
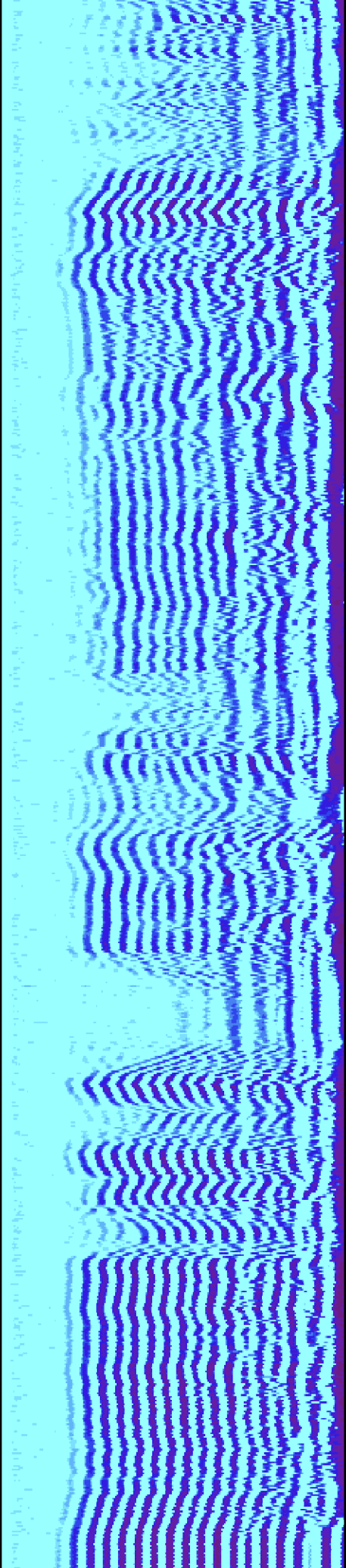


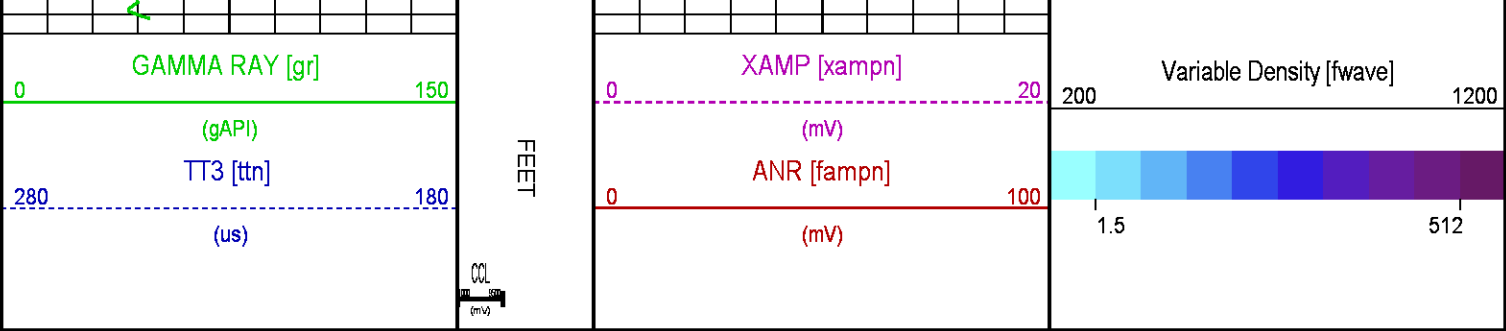
5700

5800









SECONDARY PRESENTATION 0 PSI

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

Plotted: Mon Jun 30 13:41:23 2014

PARAMETER AND FILTER SUMMARY REPORT

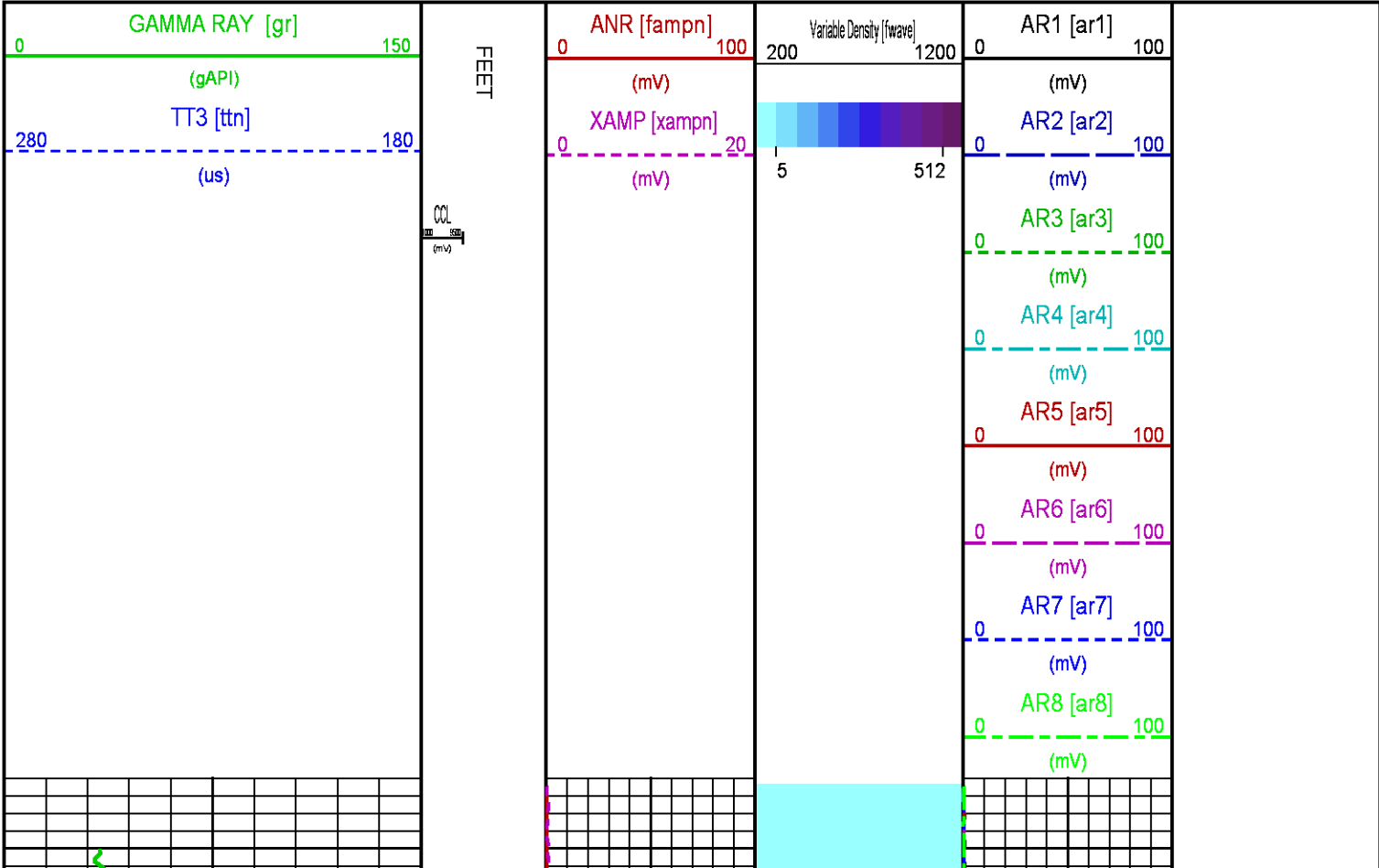
FILE: /dat1a/CH087278/n012e02.prm					
LOGGING MODE: DEPTH		DIRECTION: UP			
TOP DEPTH: 25.500 ft		BOTTOM DEPTH: 6322.250 ft			
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"
RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	185	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	185	us	"	"
	AMP WINDOW START (fgp3*)	185	us	"	"
	AMP WINDOW START (fgp4*)	185	us	"	"
	AMP WINDOW START (fgp5*)	185	us	"	"
	AMP WINDOW START (fgp6*)	185	us	"	"
	AMP WINDOW START (fgp7*)	185	us	"	"
	AMP WINDOW START (fgp8*)	185	us	"	"
	AMP WINDOW START (fgpn*)	185	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-65	us	"	"
	TOOL DELAY (str2*)	-65	us	"	"
	TOOL DELAY (str3*)	-65	us	"	"
	TOOL DELAY (str4*)	-65	us	"	"
	TOOL DELAY (str5*)	-65	us	"	"
	TOOL DELAY (str6*)	-65	us	"	"
	TOOL DELAY (str7*)	-65	us	"	"
	TOOL DELAY (str8*)	-65	us	"	"
	TOOL DELAY (strn*)	-65	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"

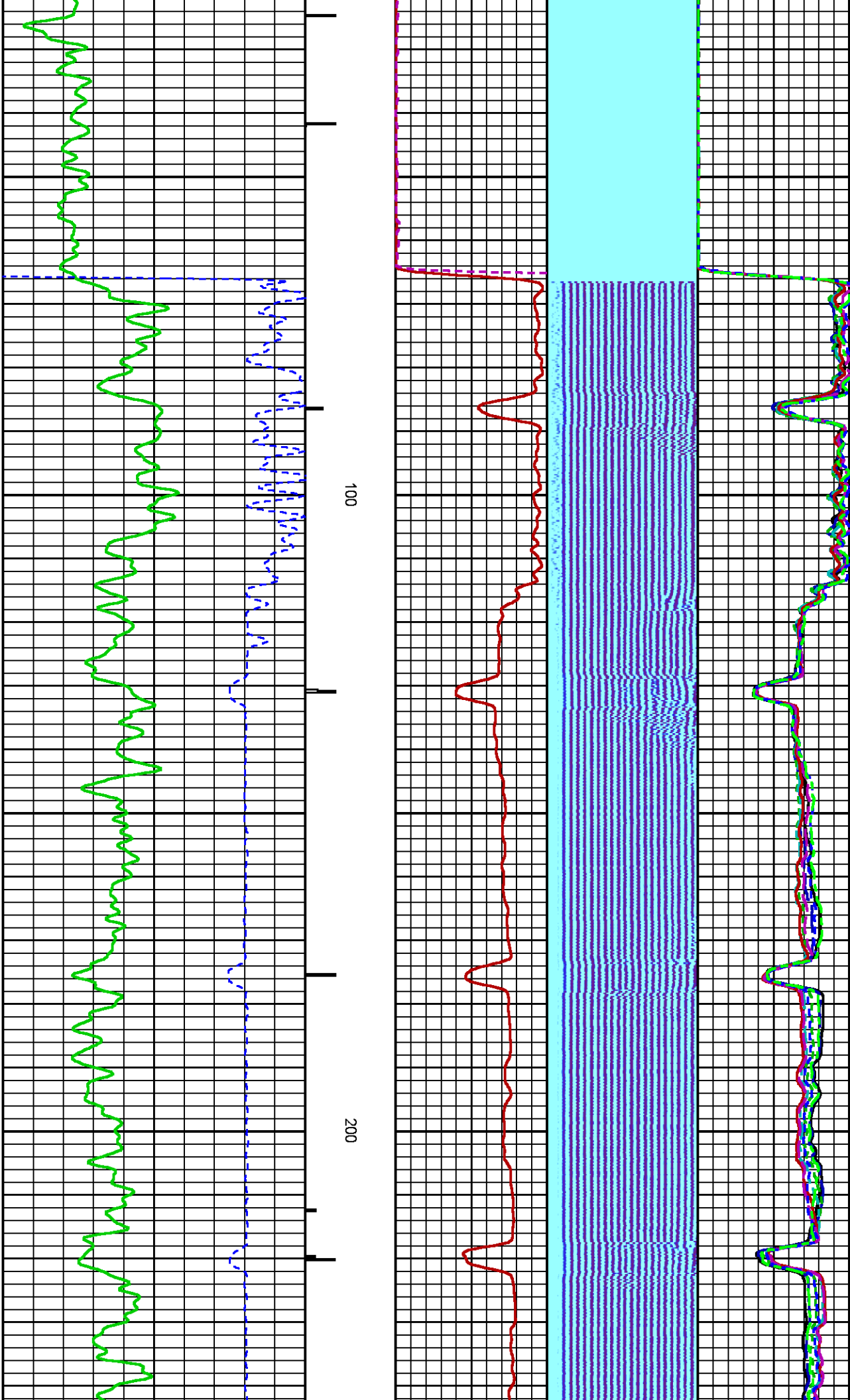
BASLINE NOISE (NEAR)	NOISE WINDOW START	120	us	"	"
	NOISE WINDOW LENGTH	25	us		

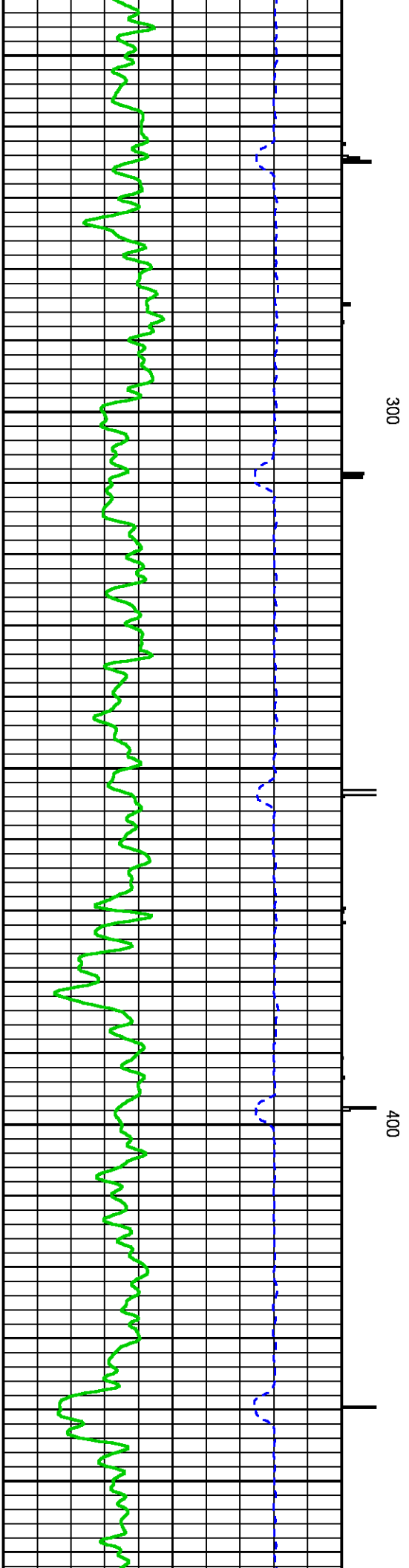
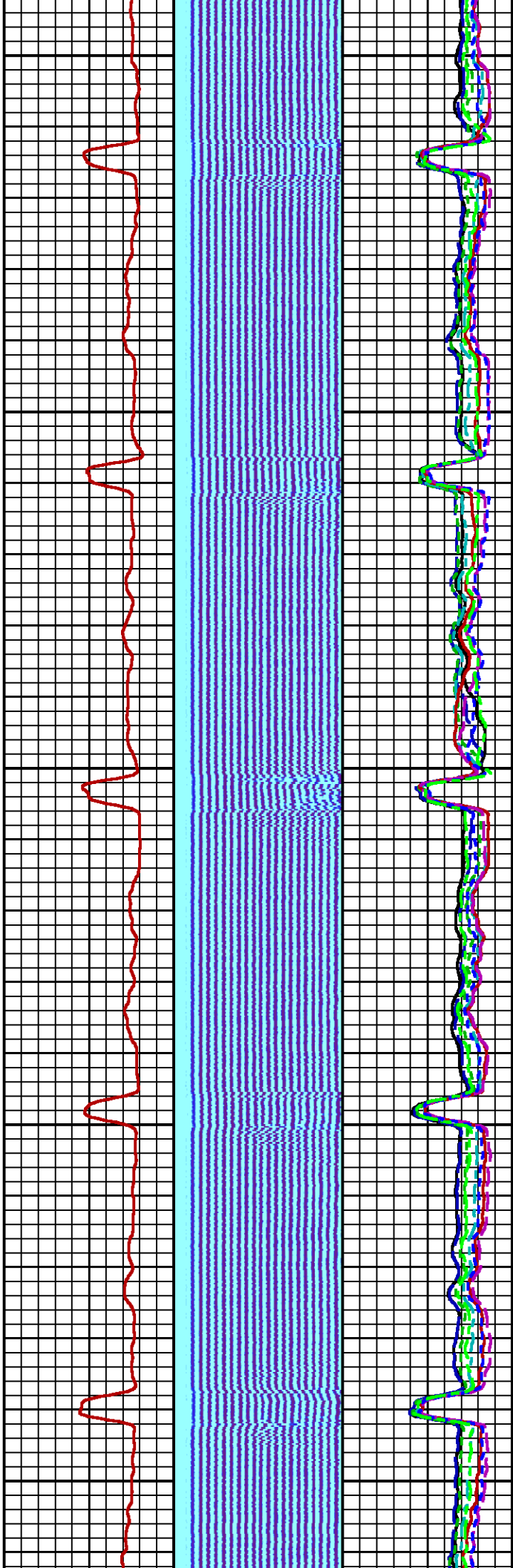
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jun 29 18:36:04 2014	CASING COLLAR LOCATOR
F1:FAMPN	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 29 18:36:04 2014	FAR WAVE FORM
F1:GR	Jun 29 18:36:04 2014	GAMMA RAY
F1:TTN	Jun 29 18:36:04 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 29 18:36:04 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

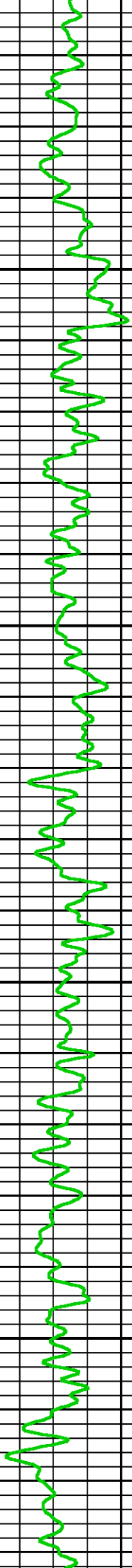
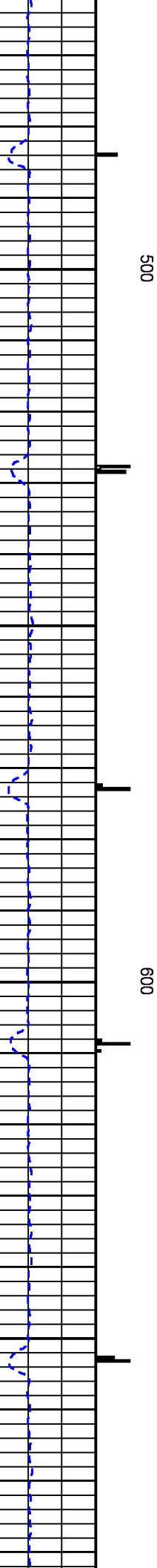
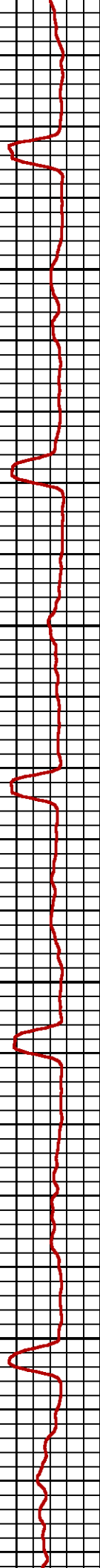
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

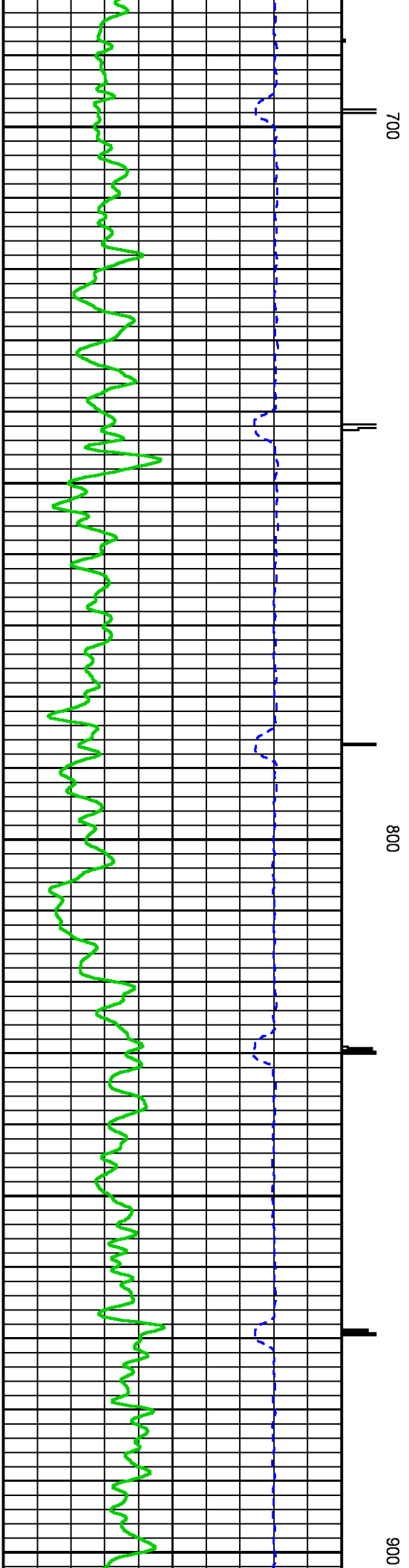
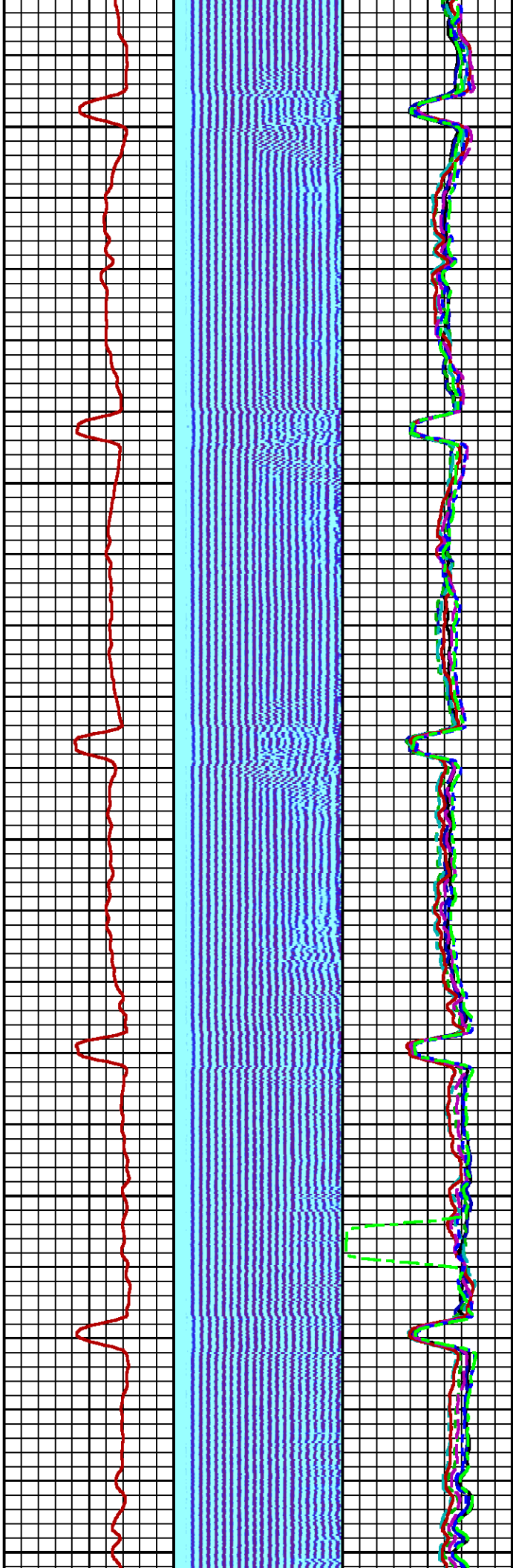
Presentation	: HL6670:SECONDARY_CBL_MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 12.75 - 6321 Feet
Data File 1	: F1 : HL6670:/dat1a/CH087278/n012e02.xtf
Created On	: Jun 29 18:36:04 2014
Company	: WPX ENERGY
Well	: C&C ENERGY GM 521-13
Field	: GRAND VALLEY
File Interval	: 11.75 - 6322.25 Feet
OCT	: n012e

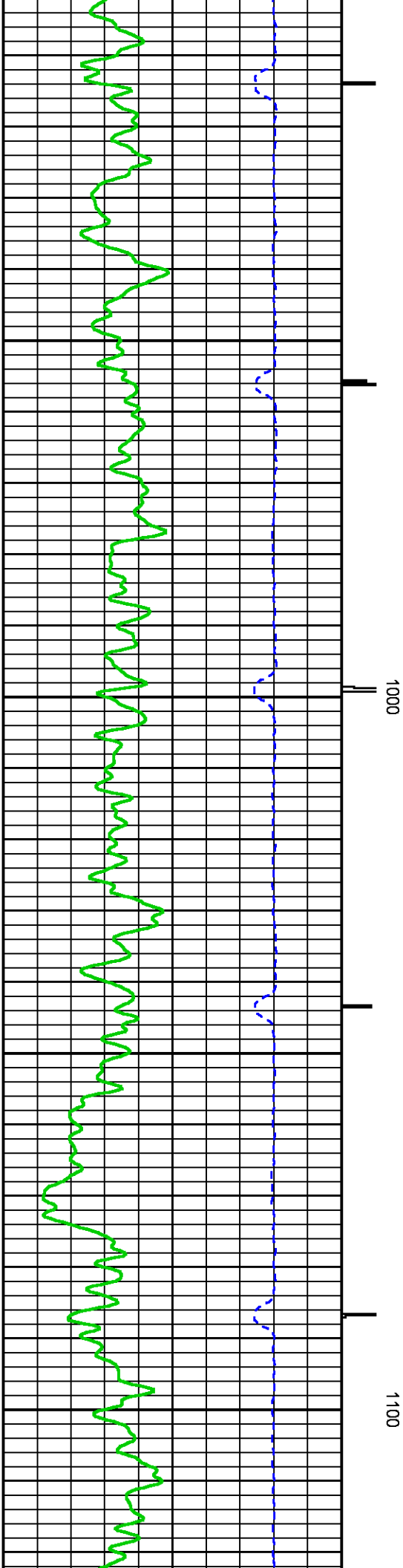
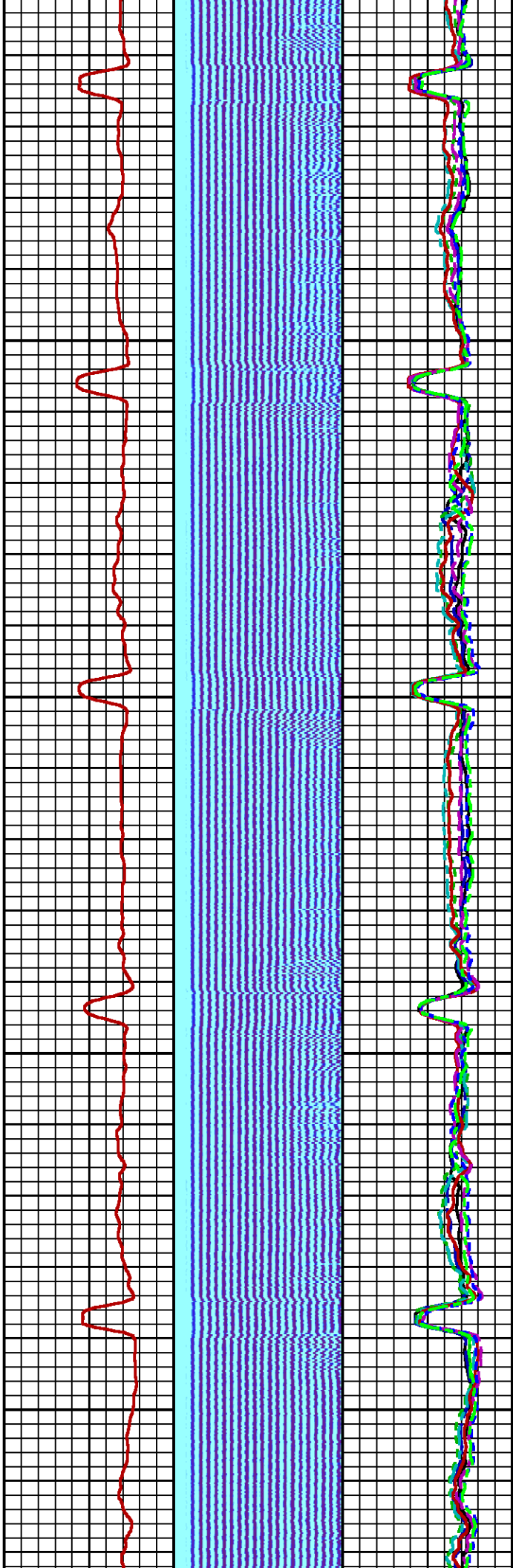


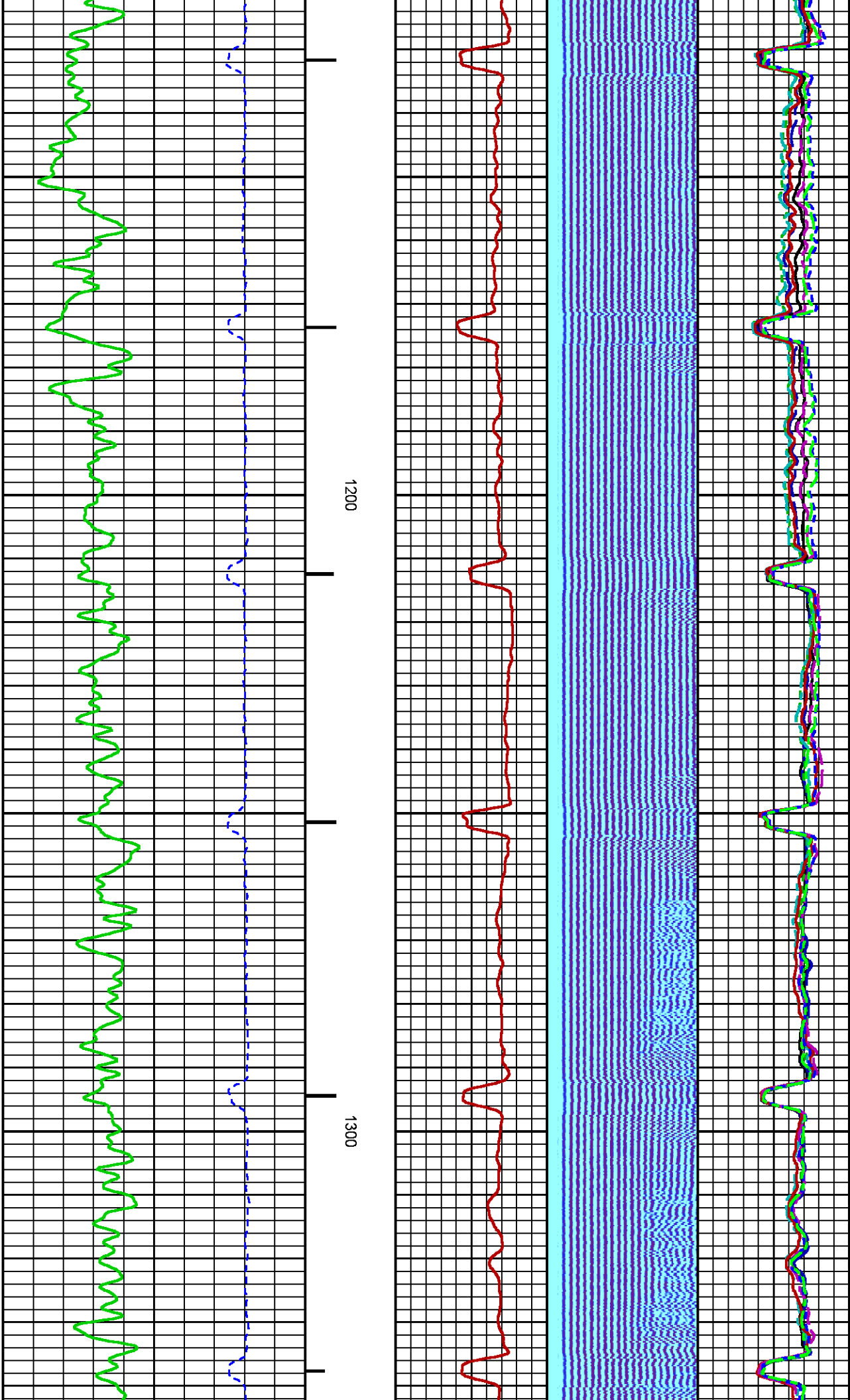


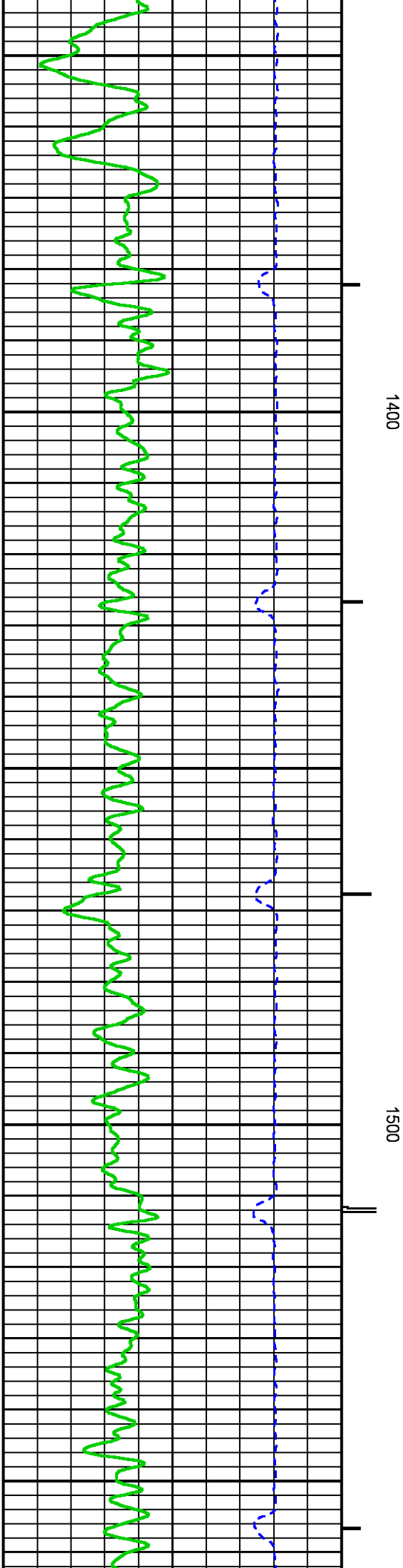
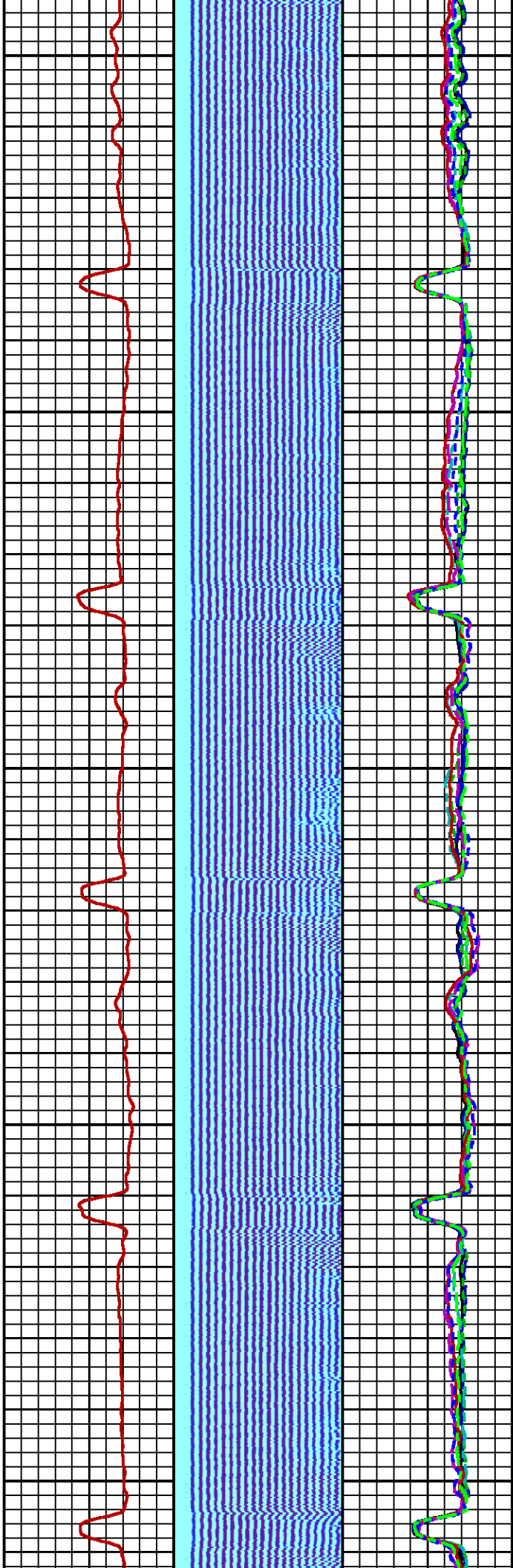


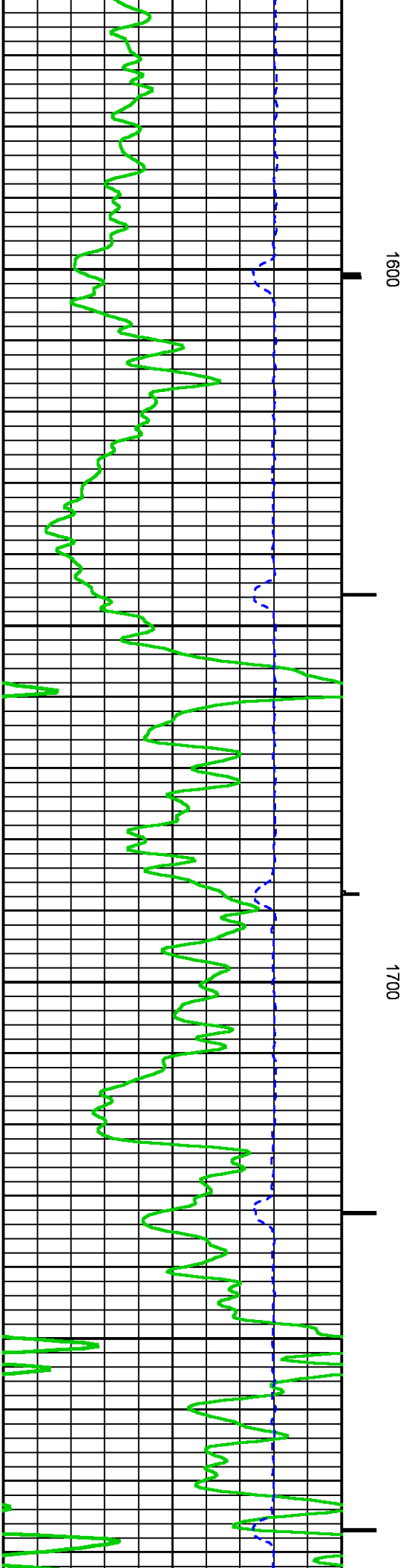
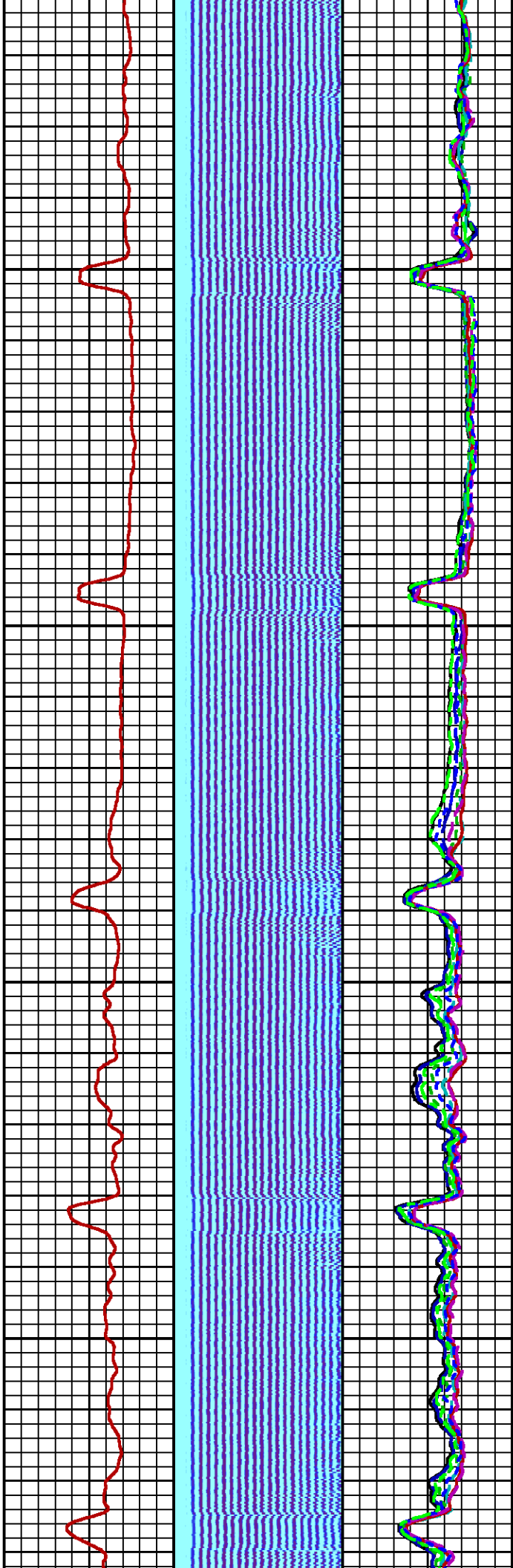


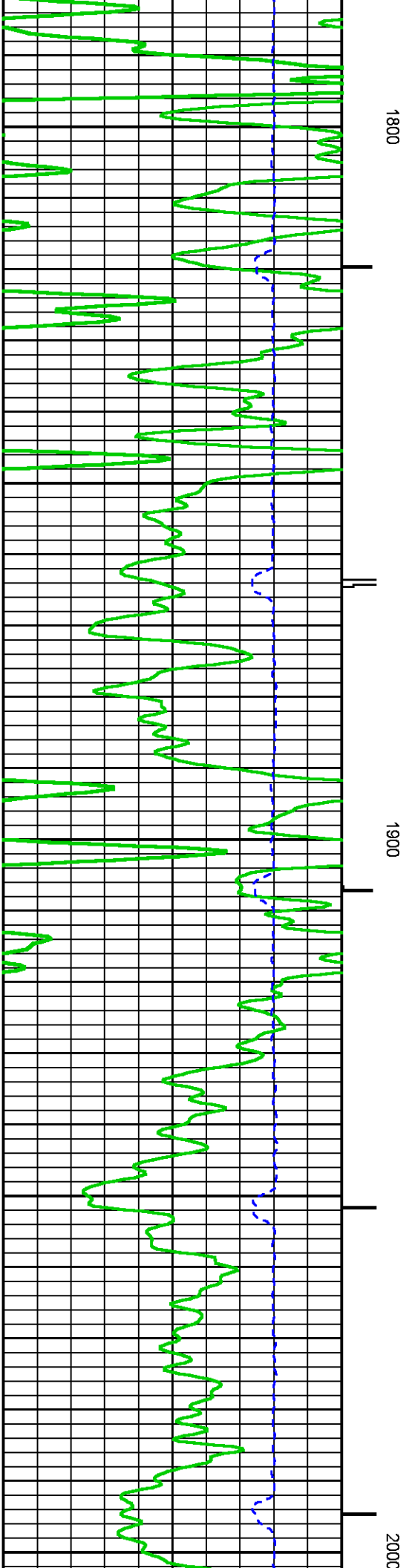
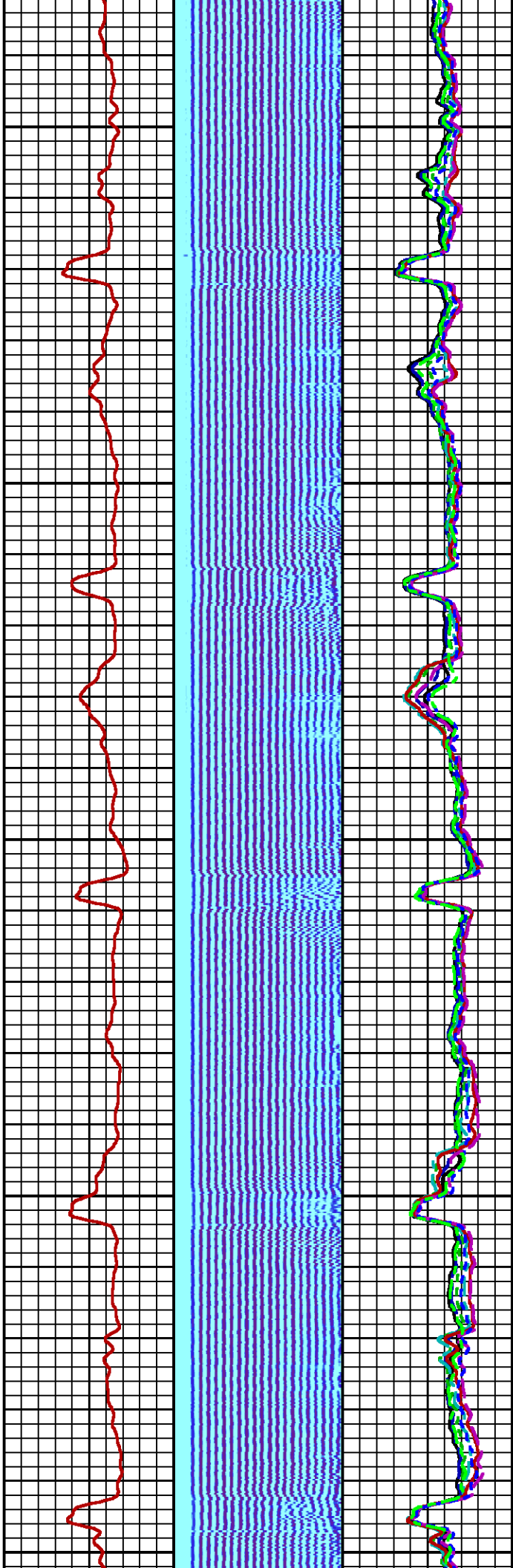


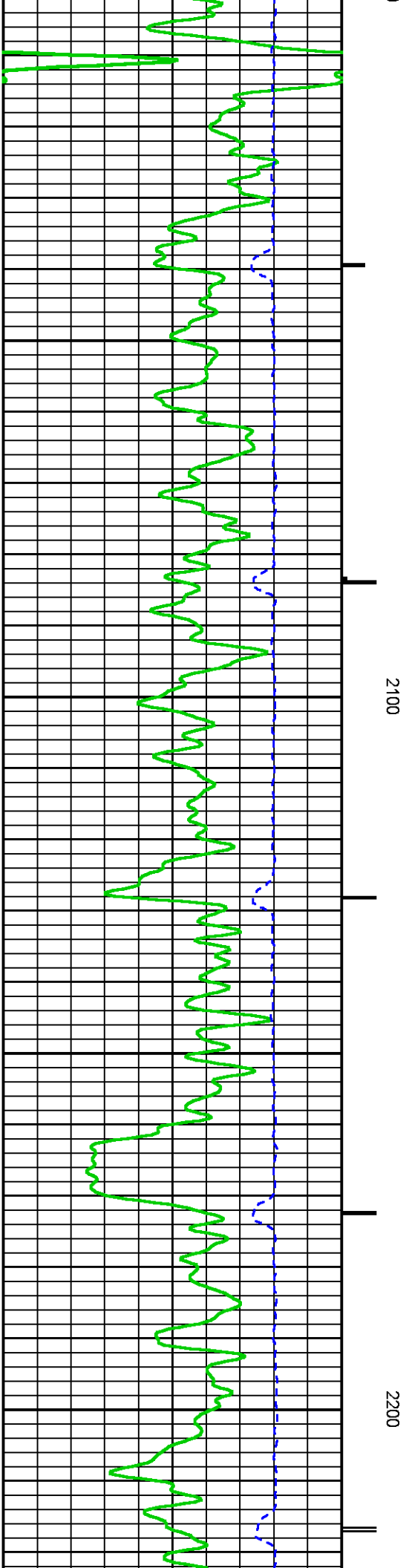
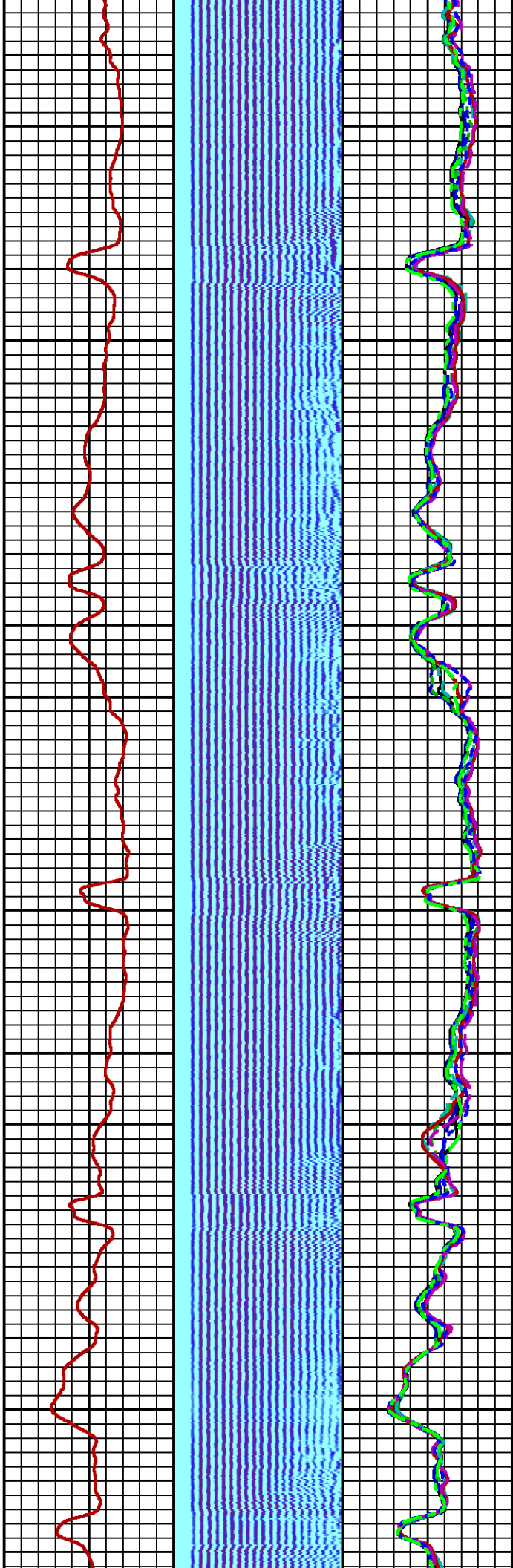


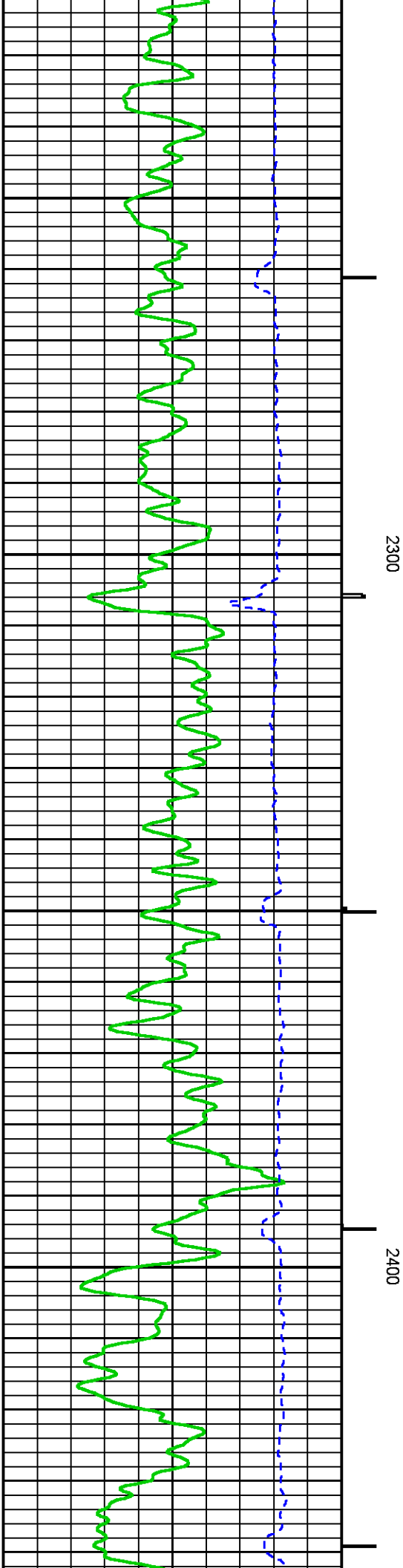
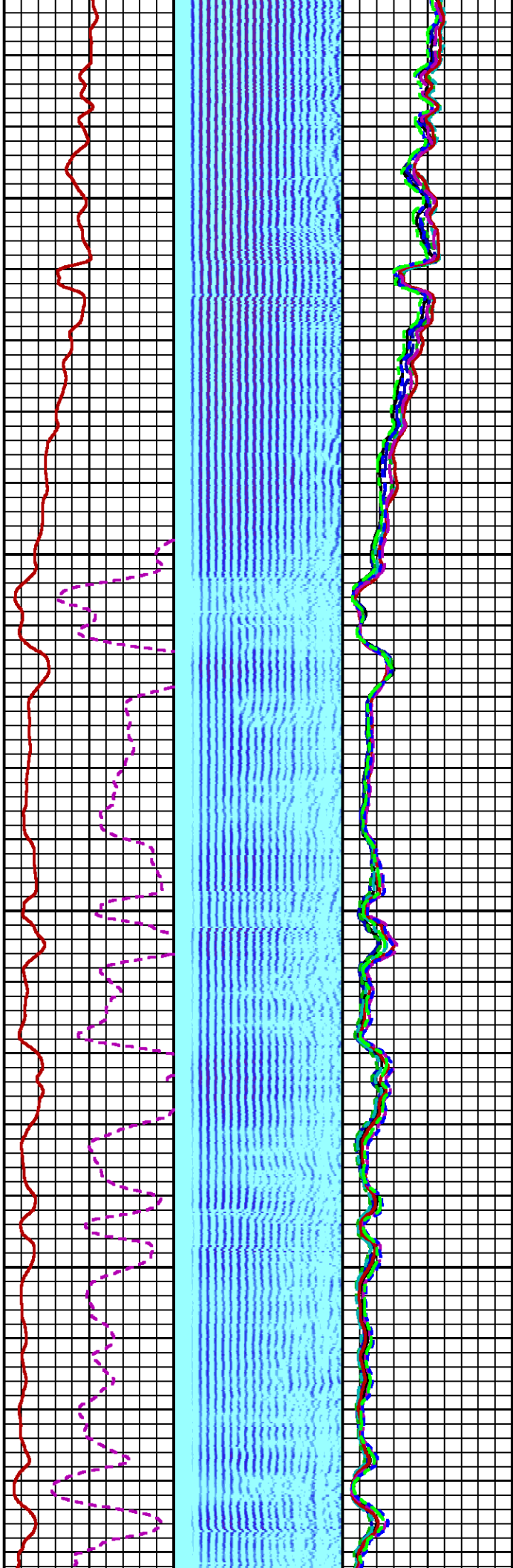


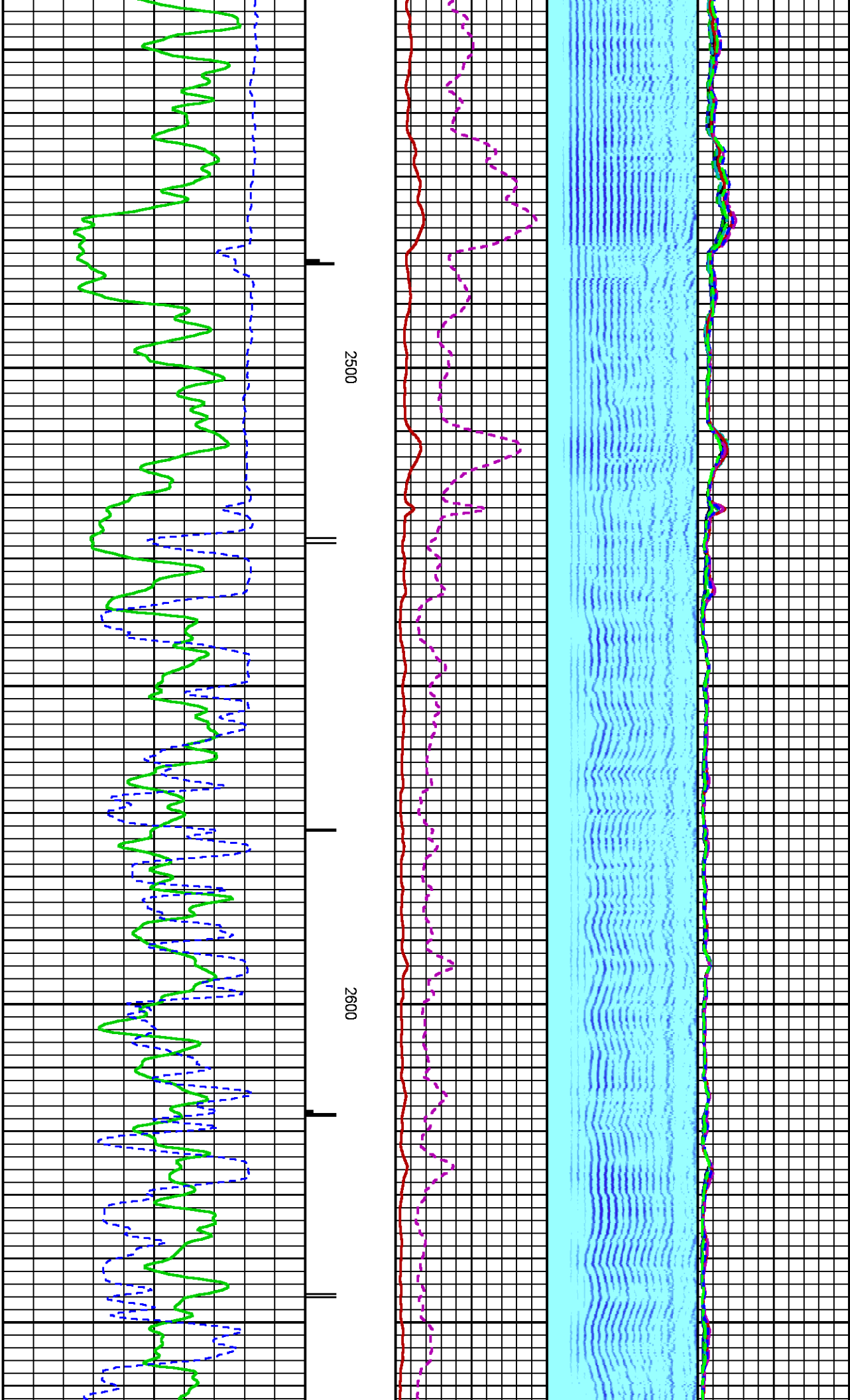


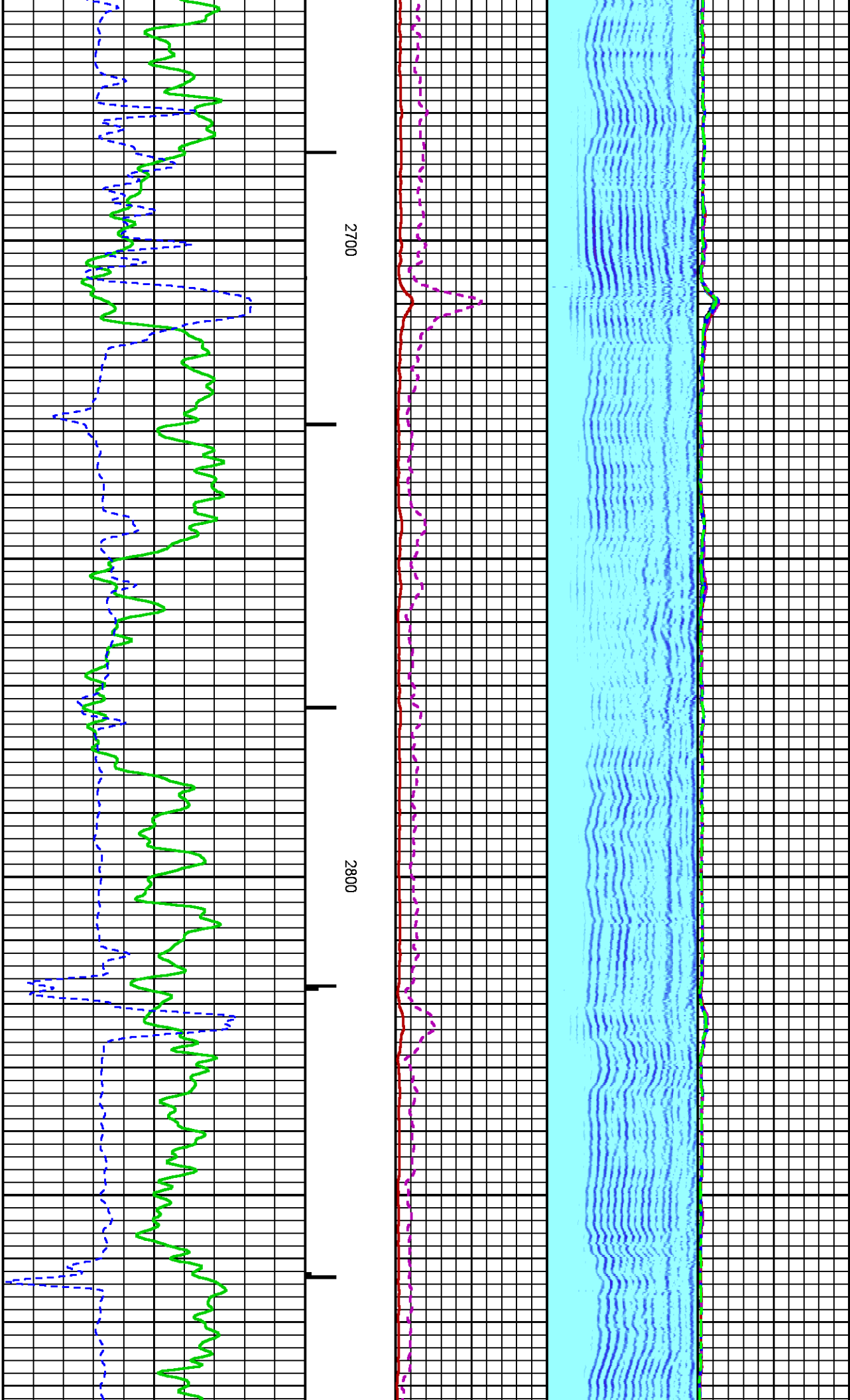


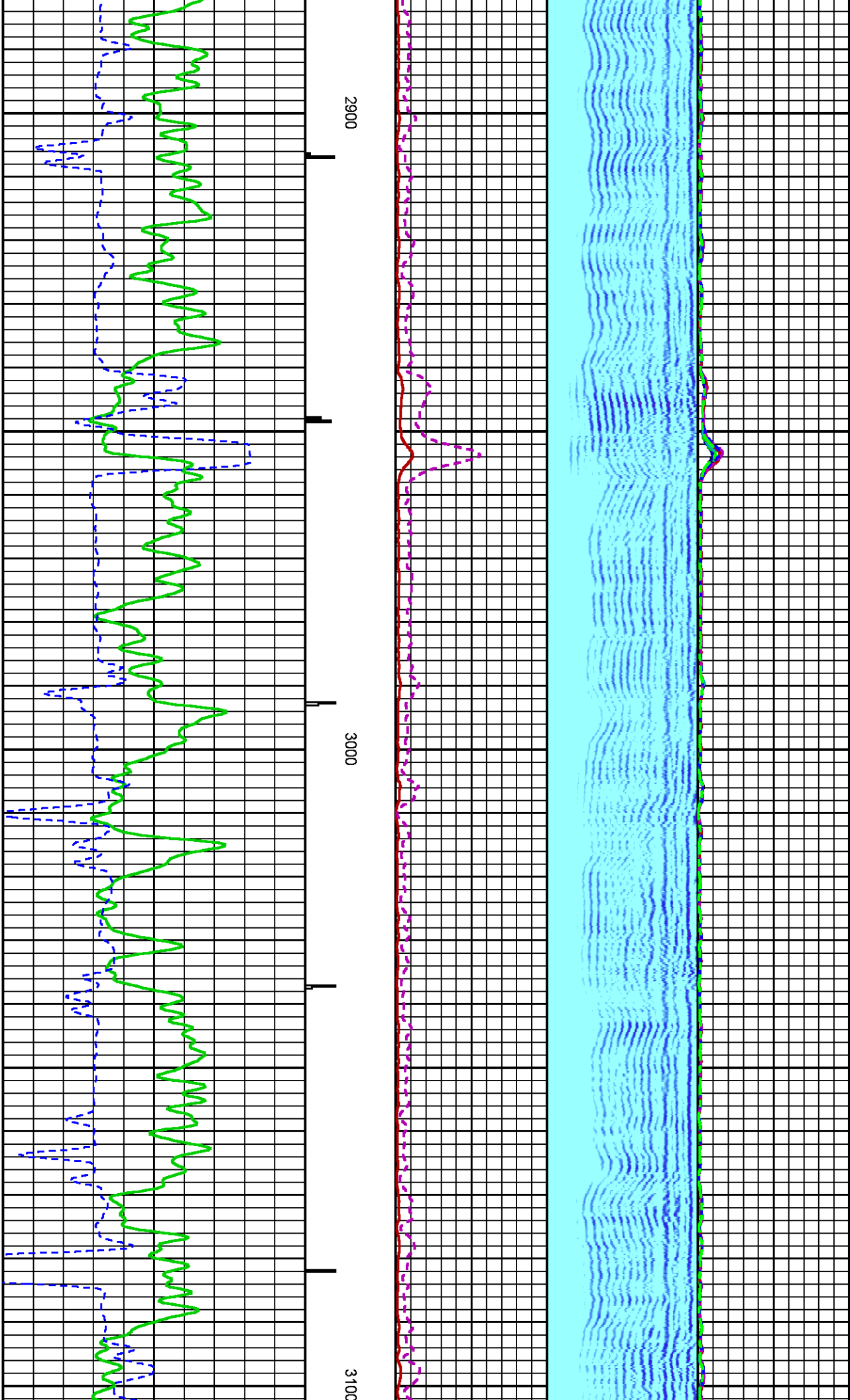


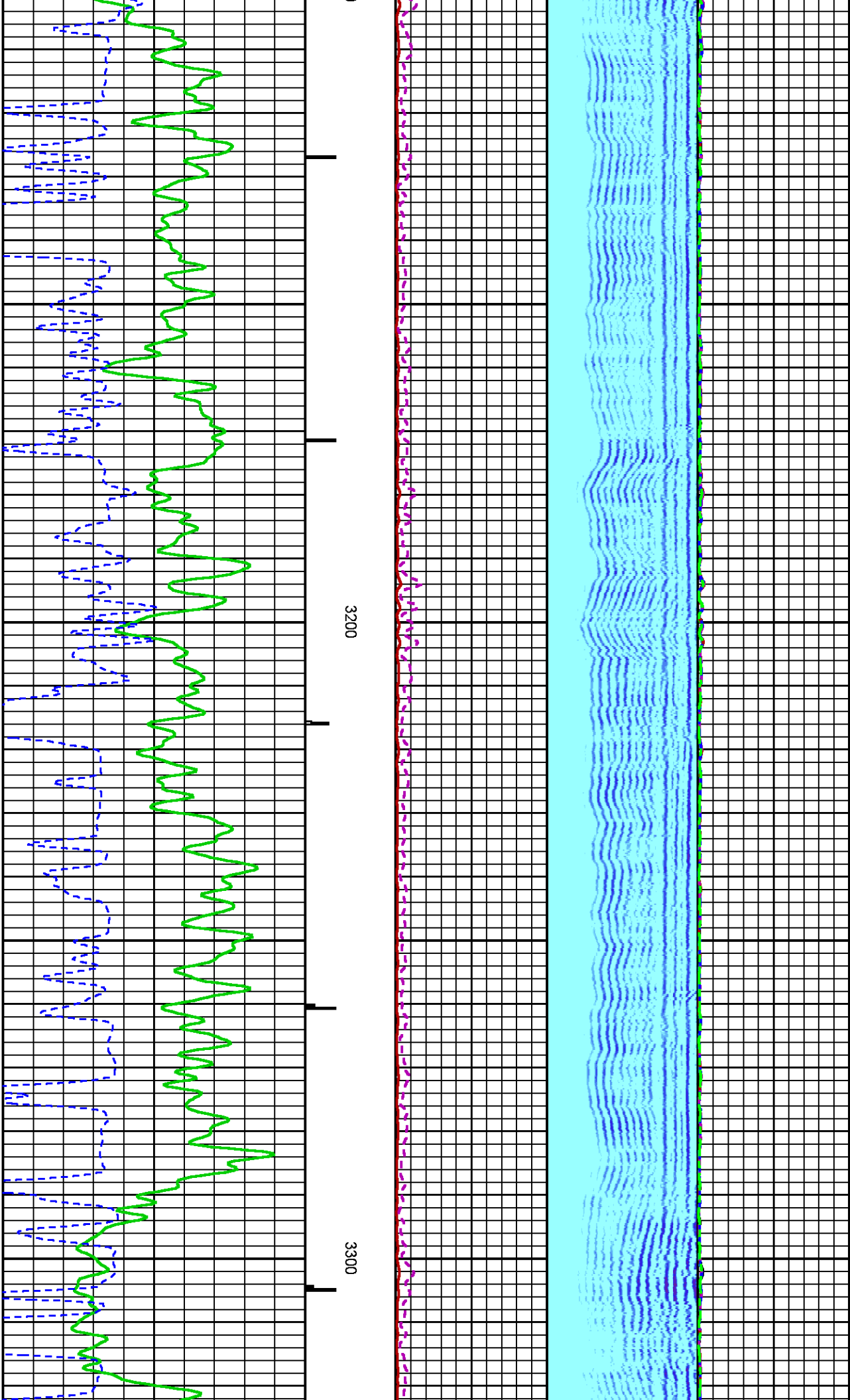


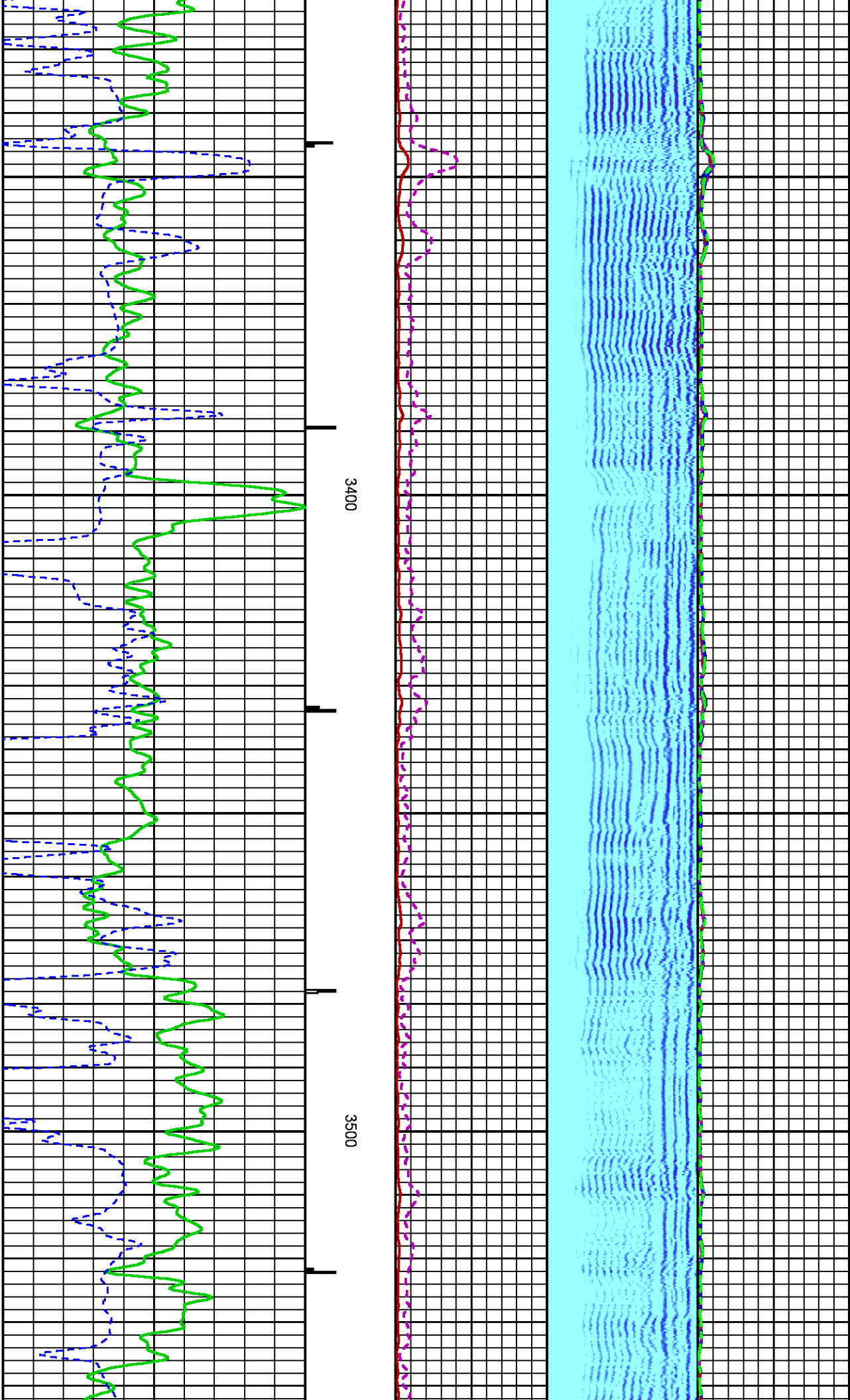


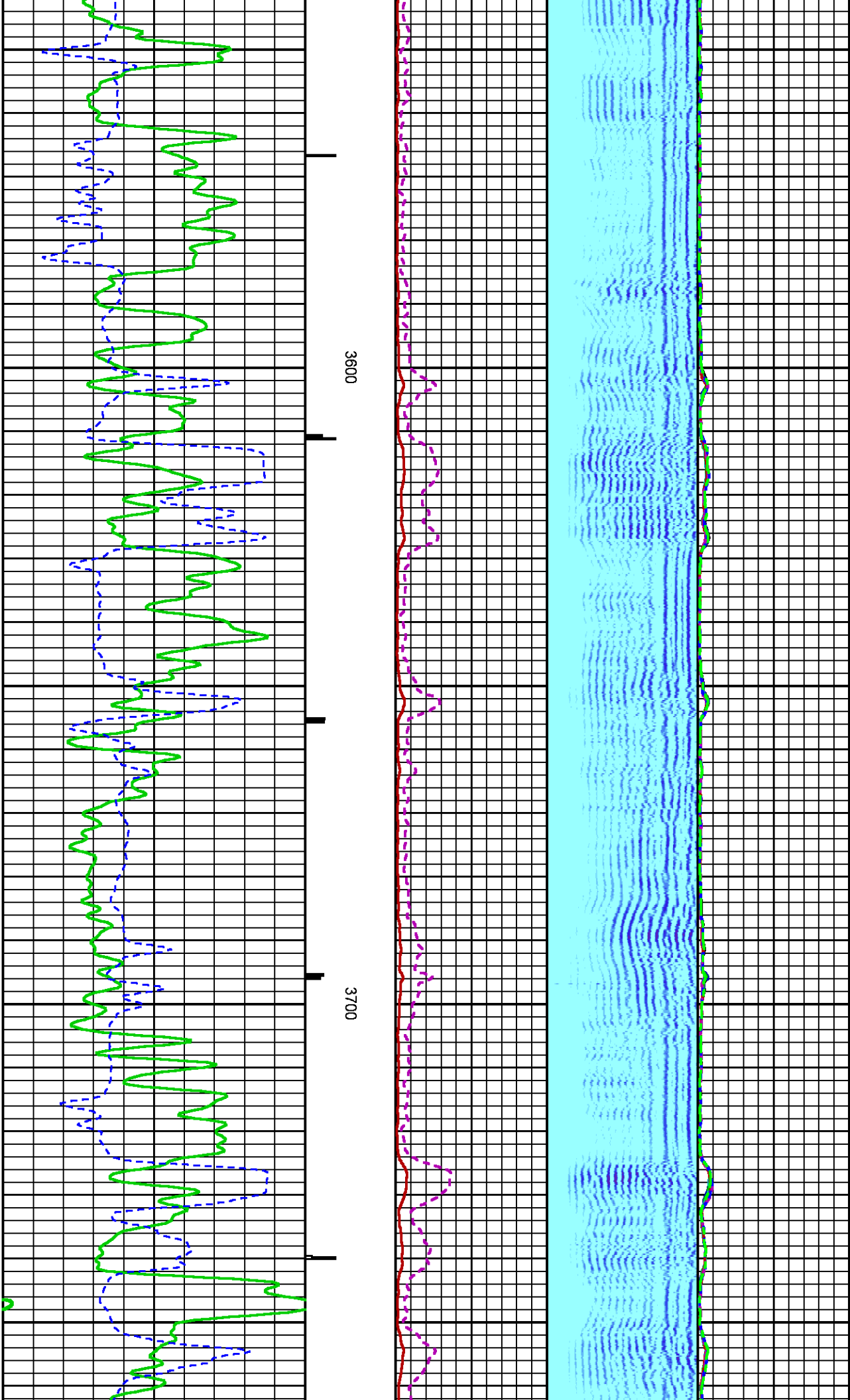


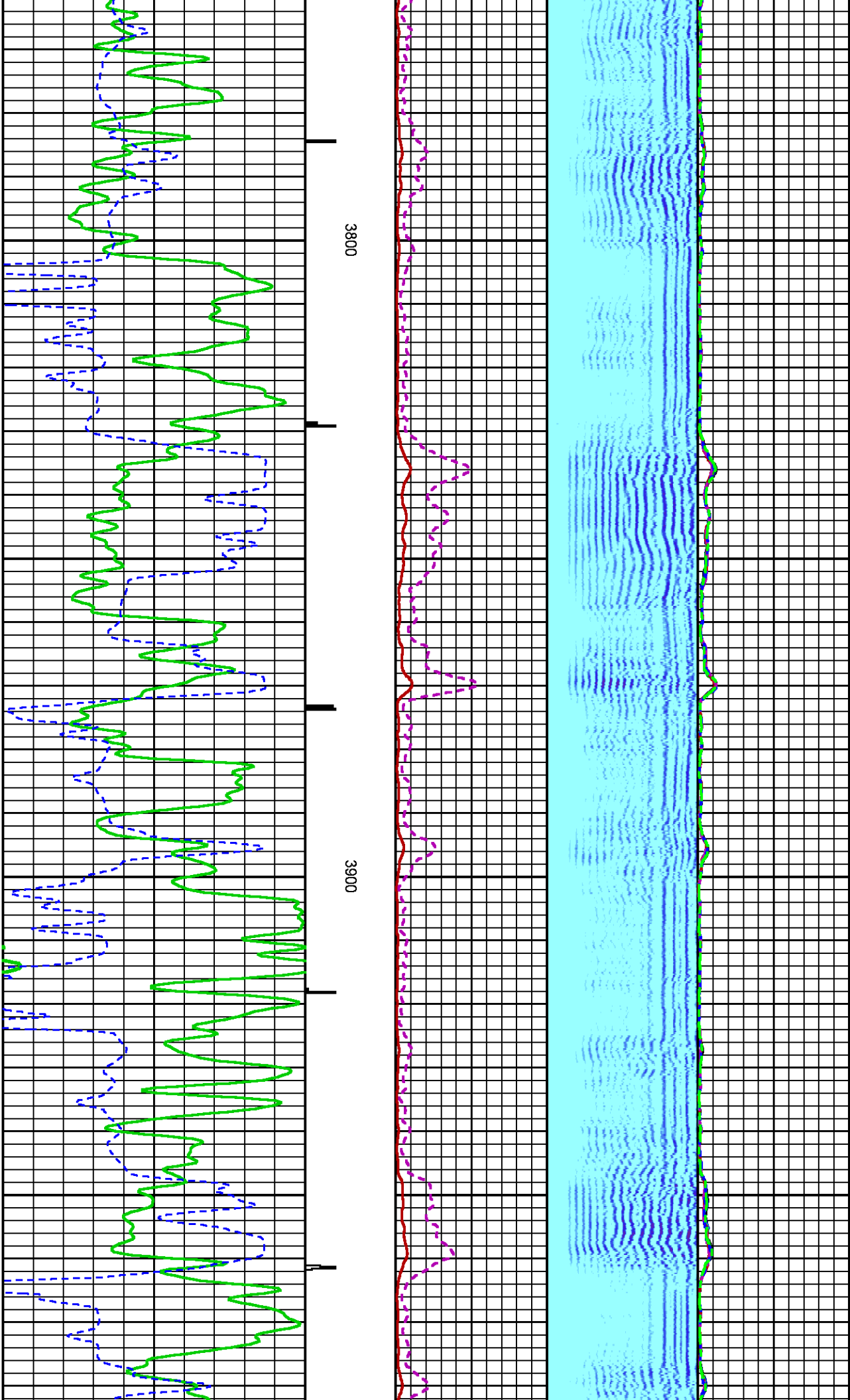


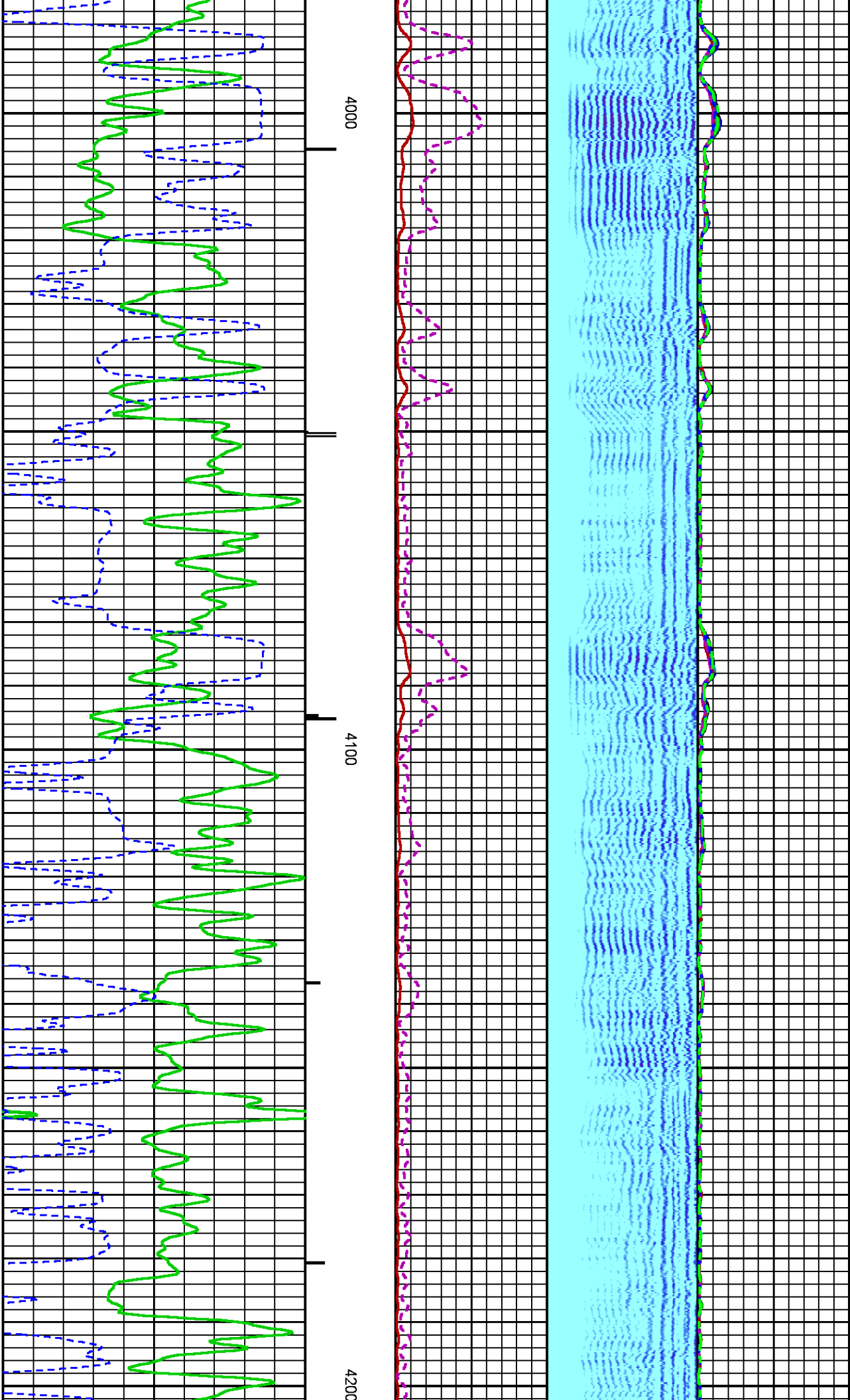


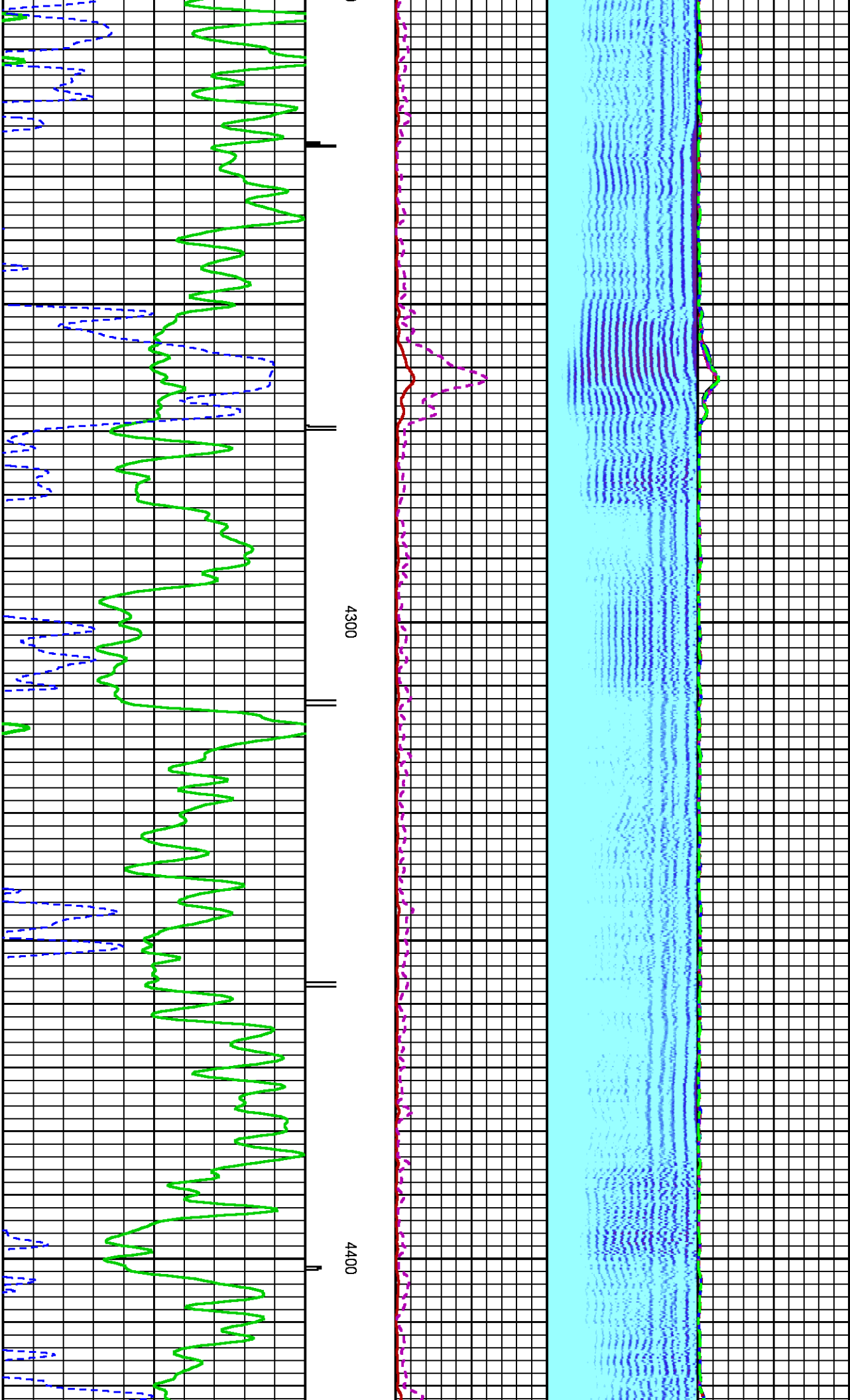


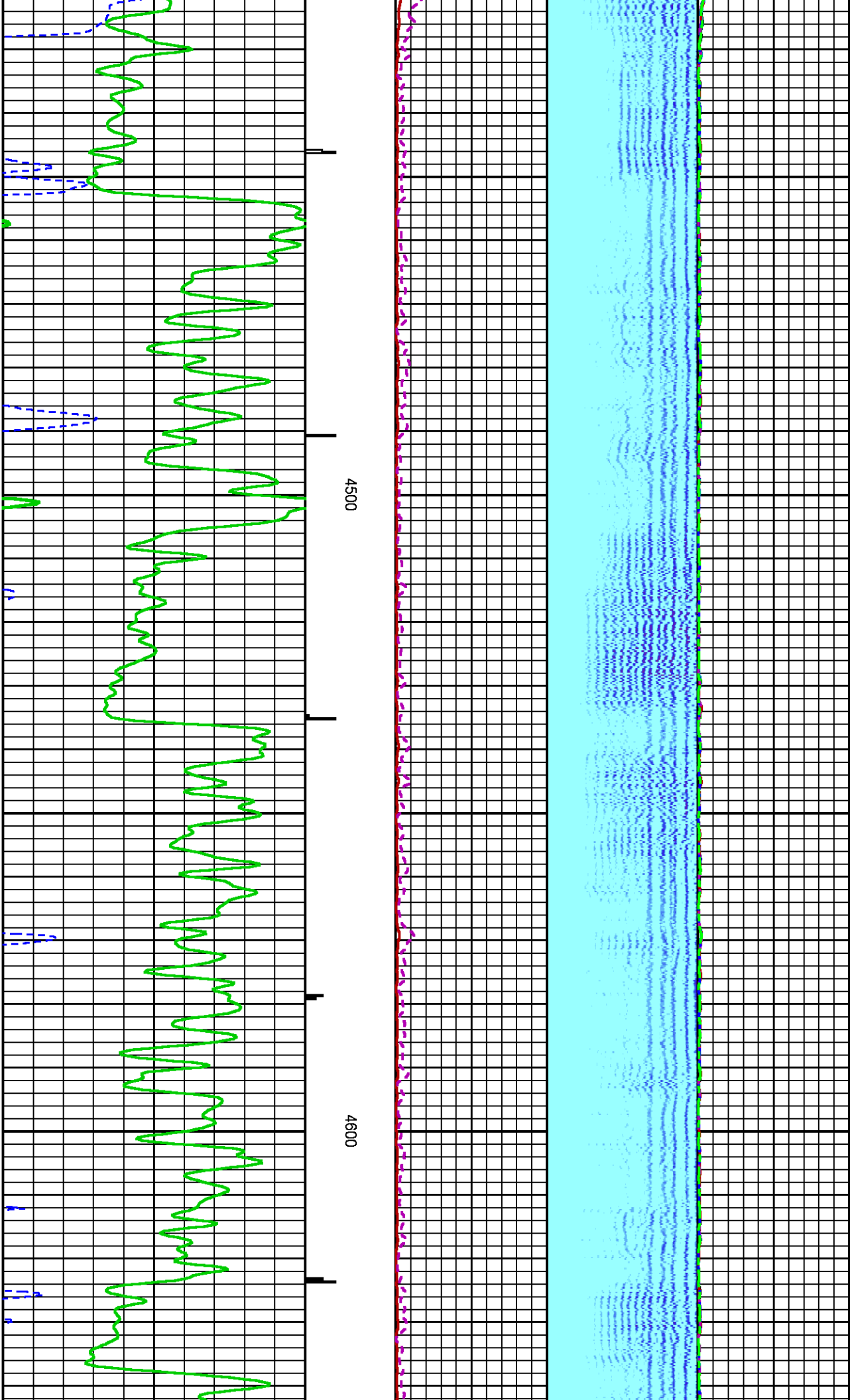


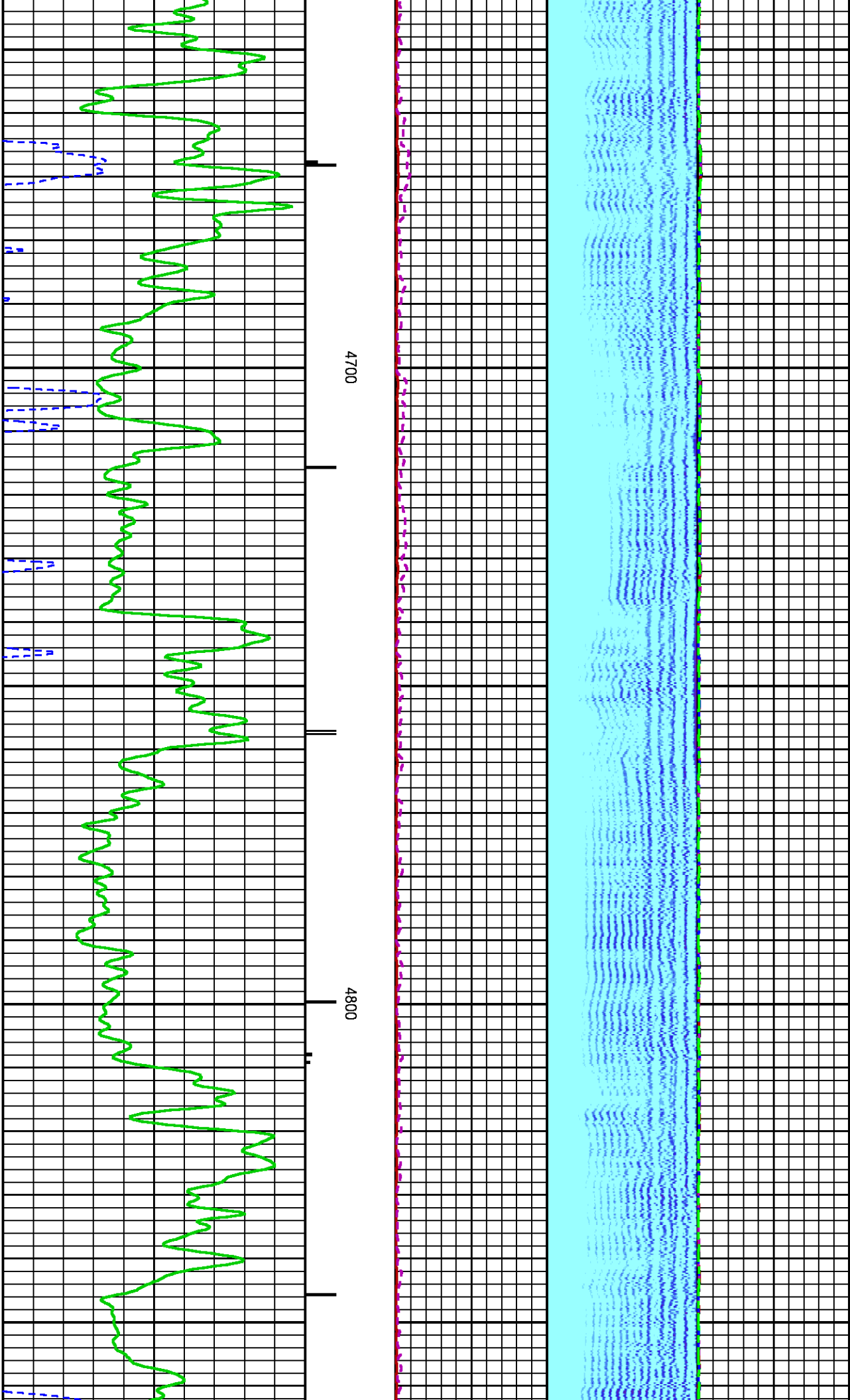


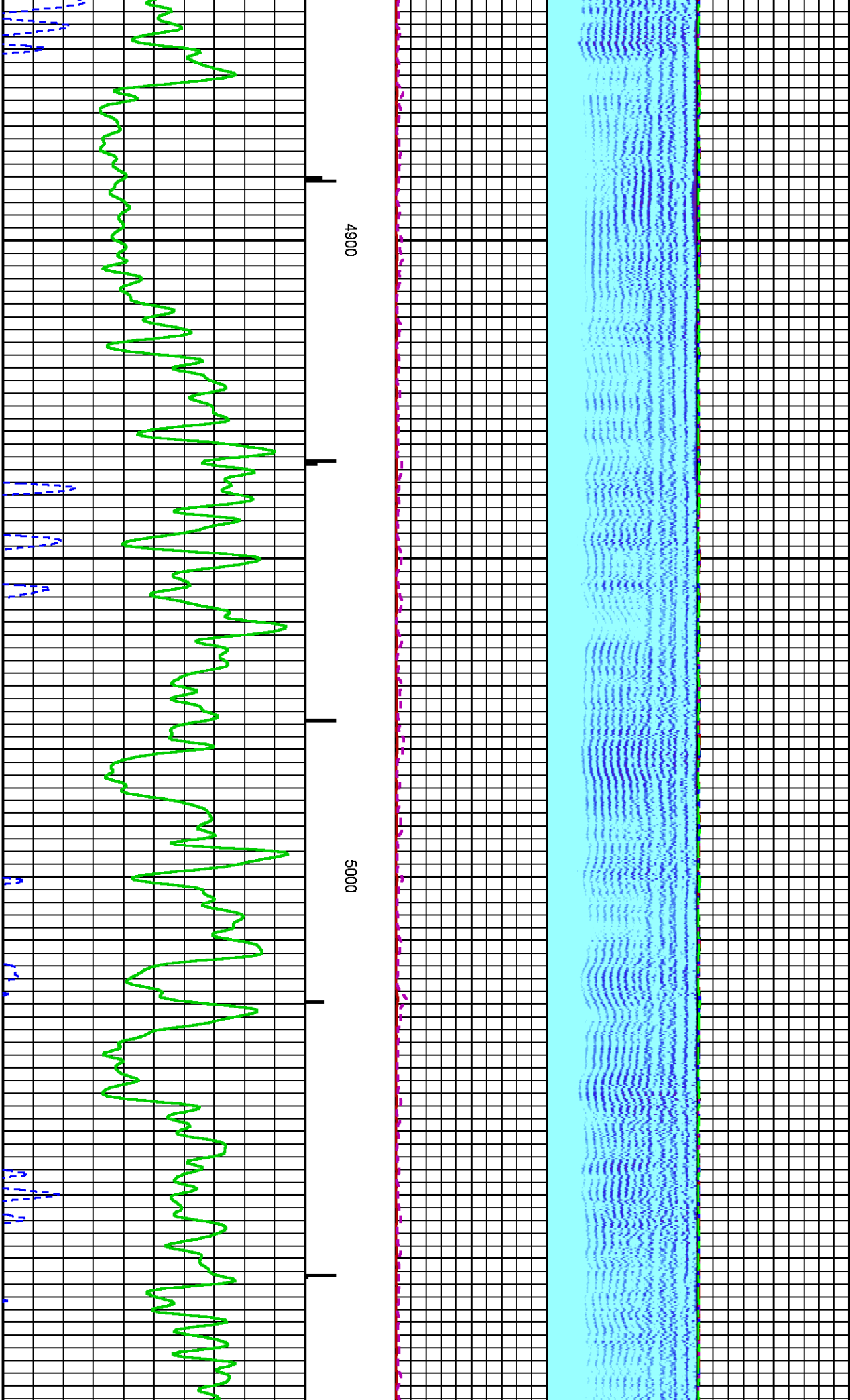


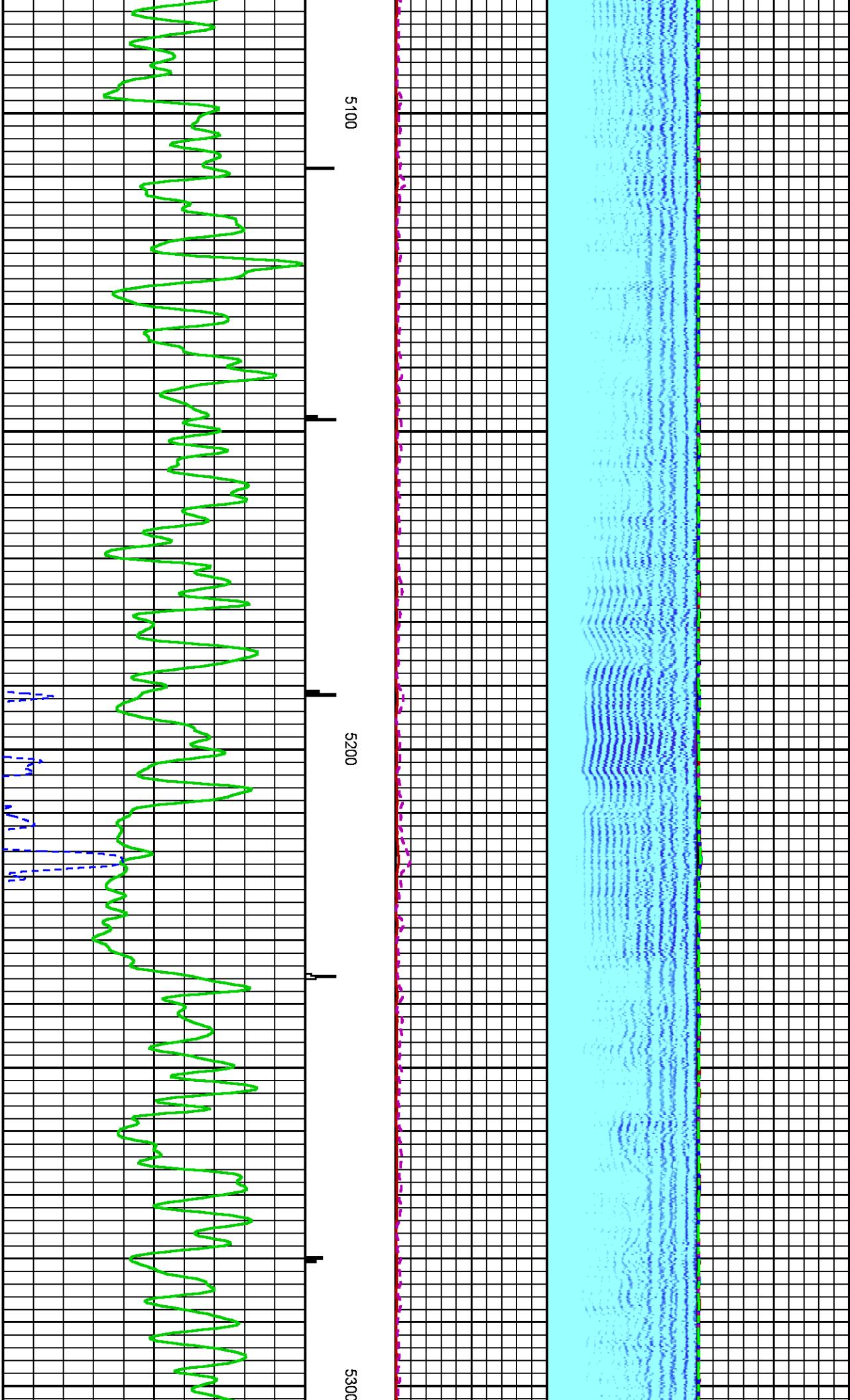


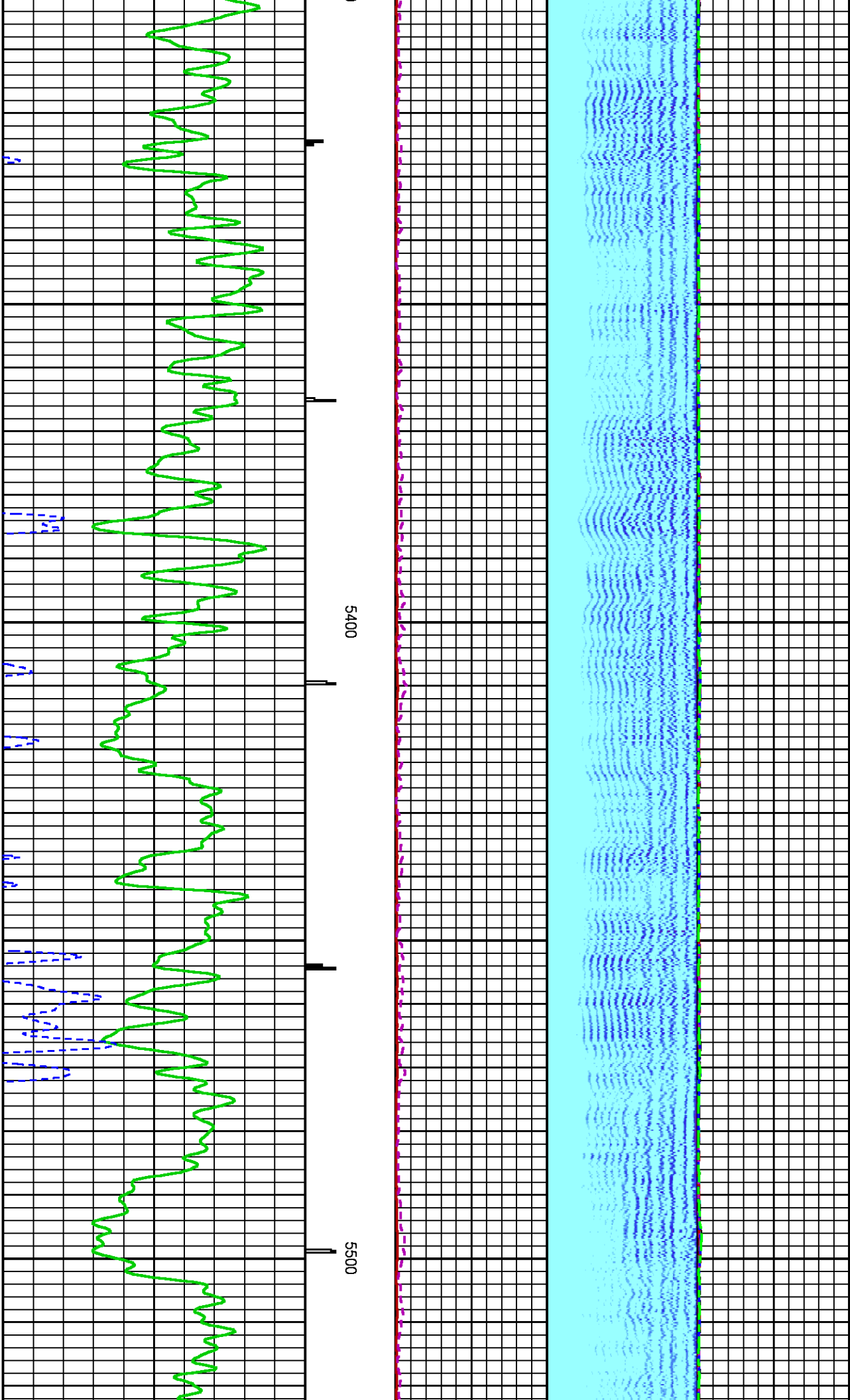


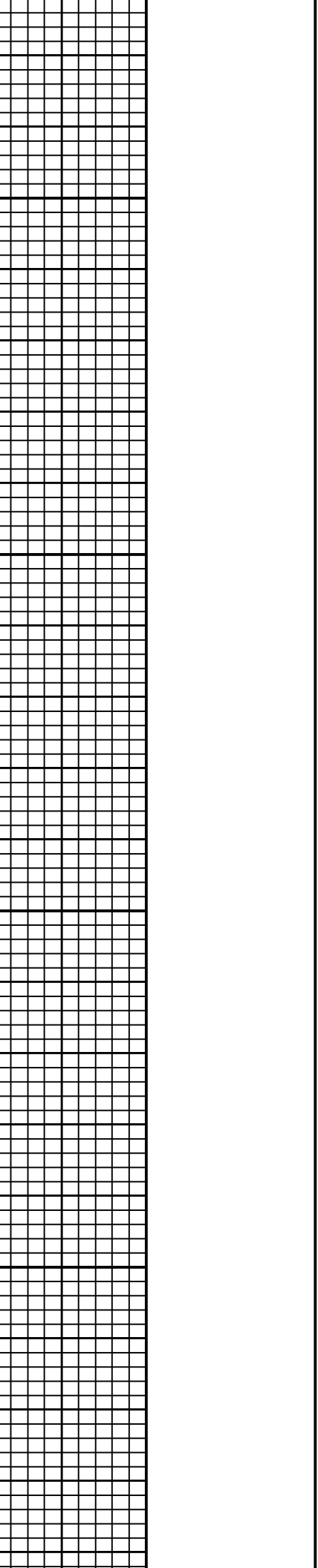
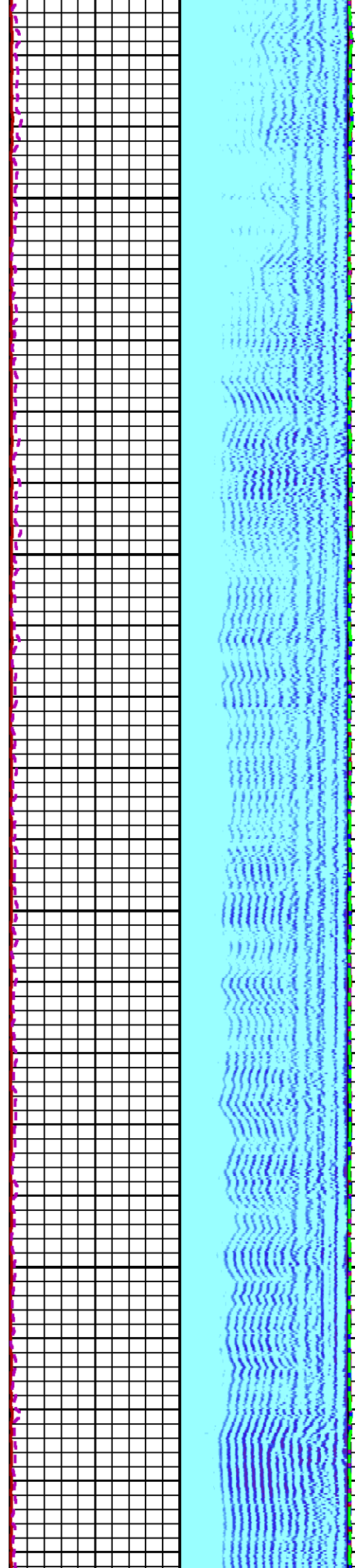
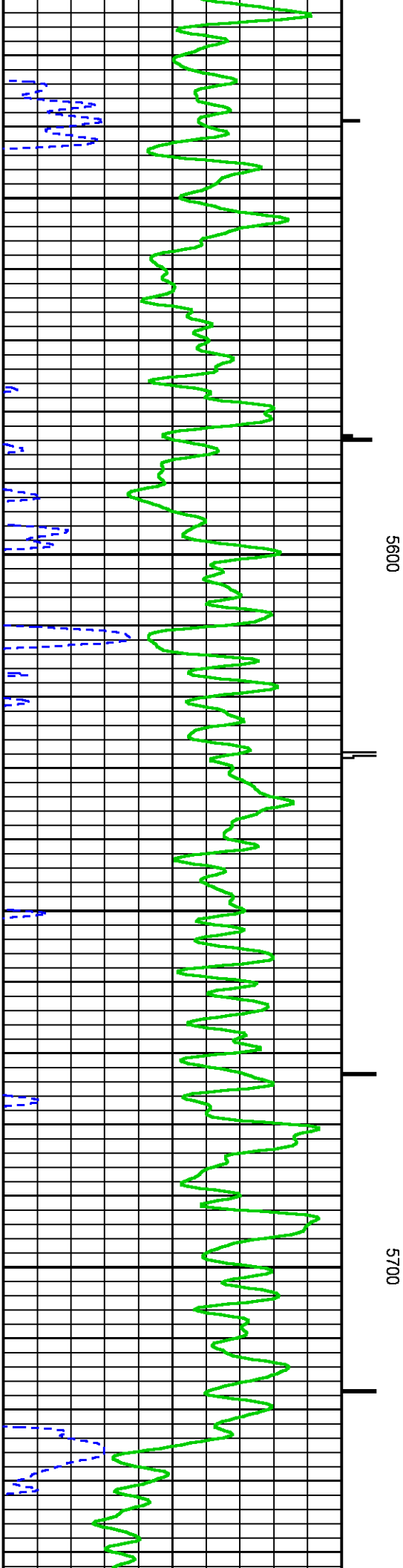


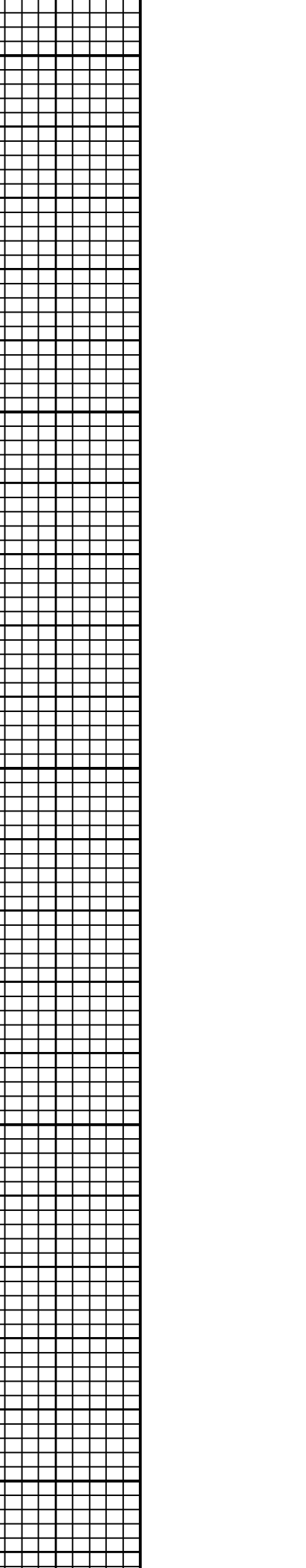
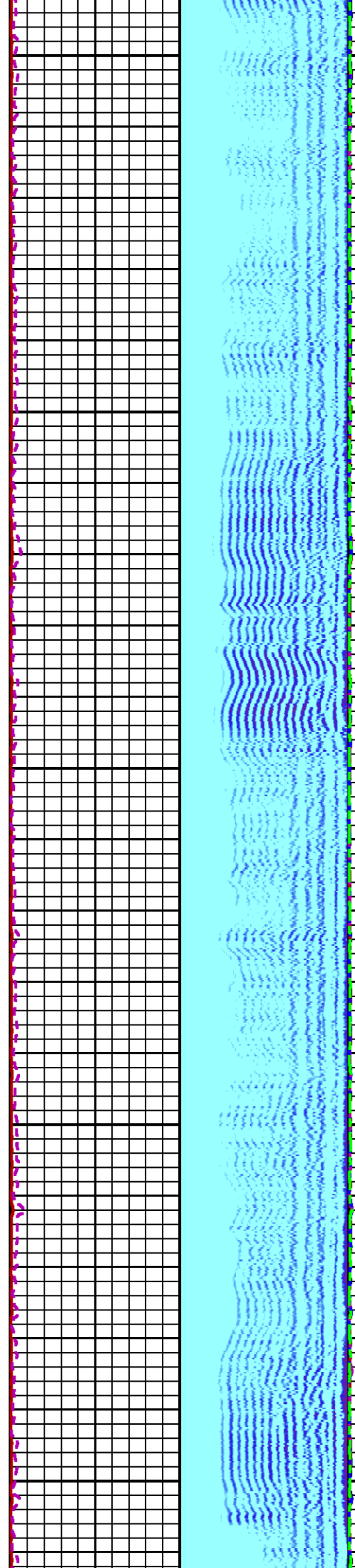
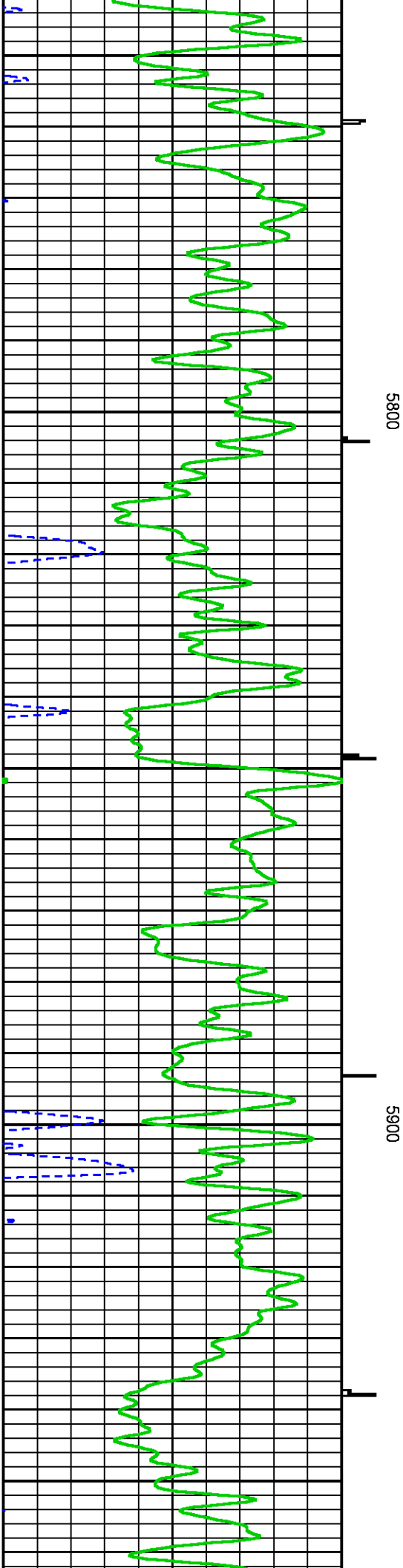


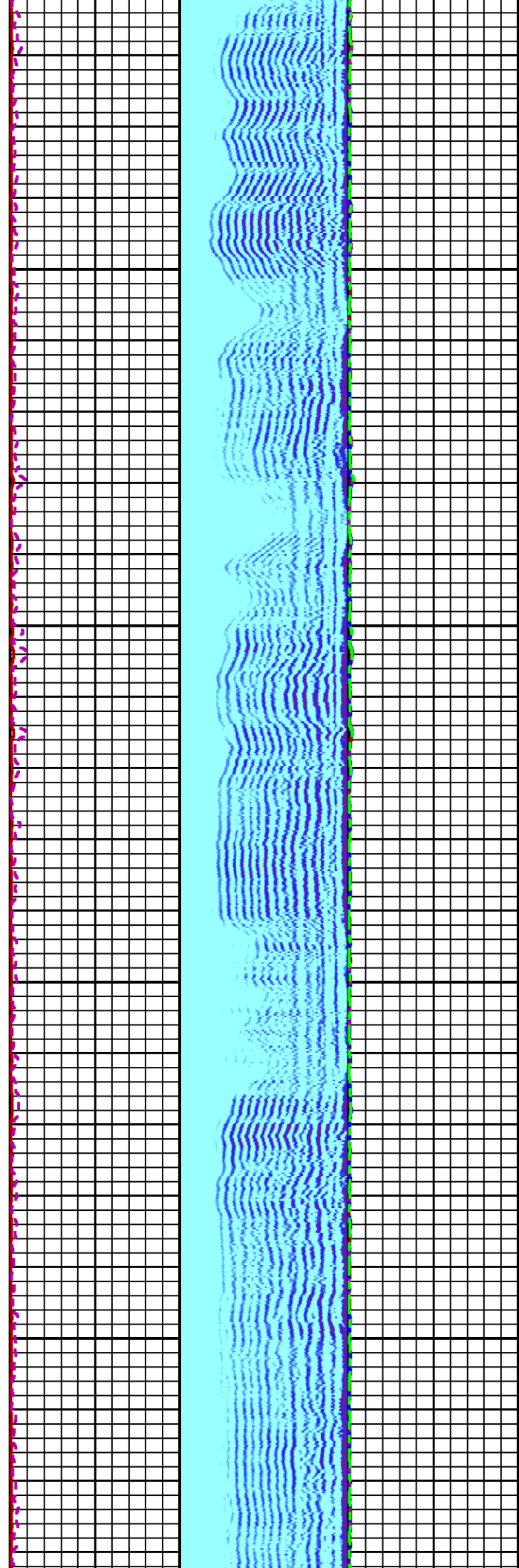
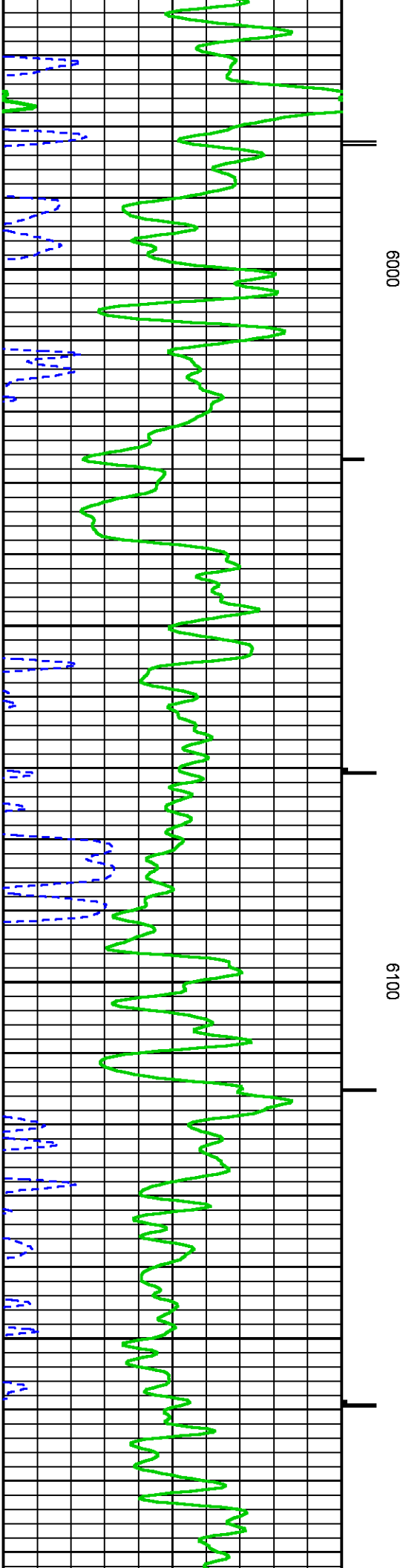


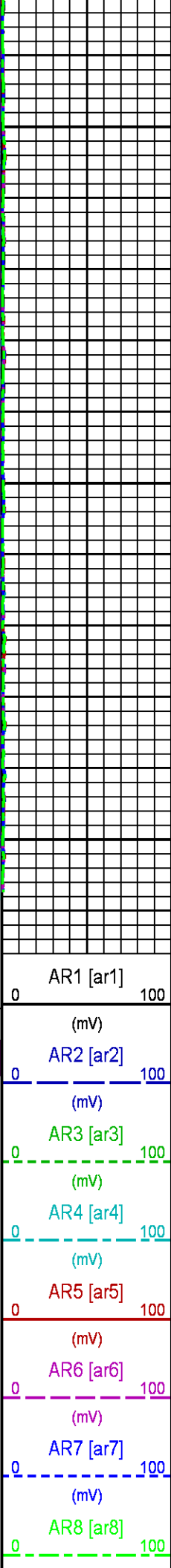
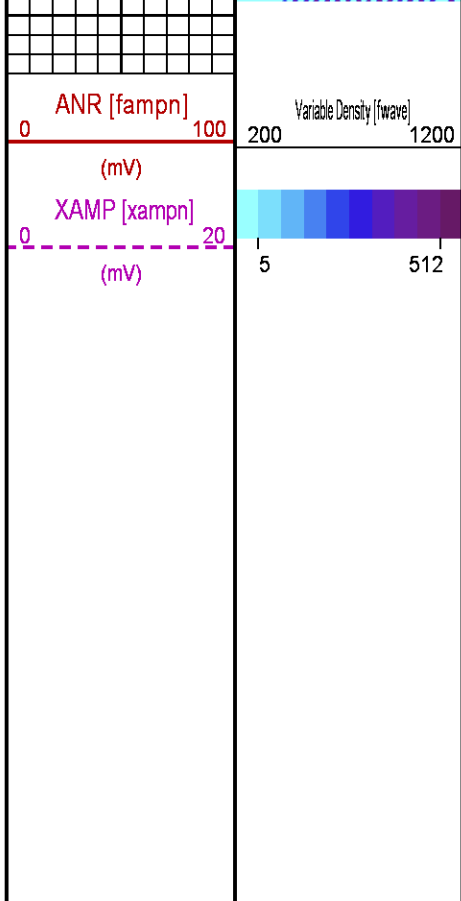
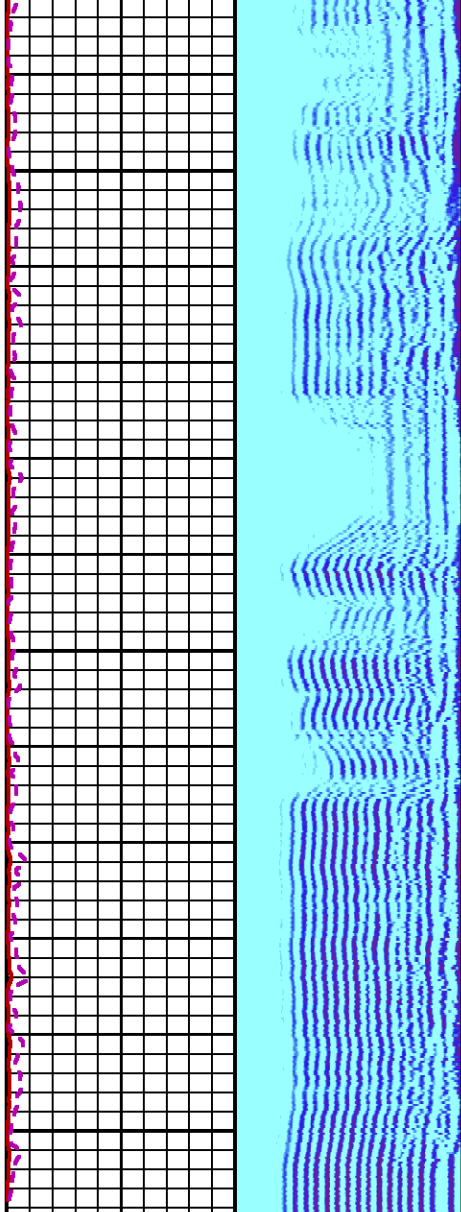
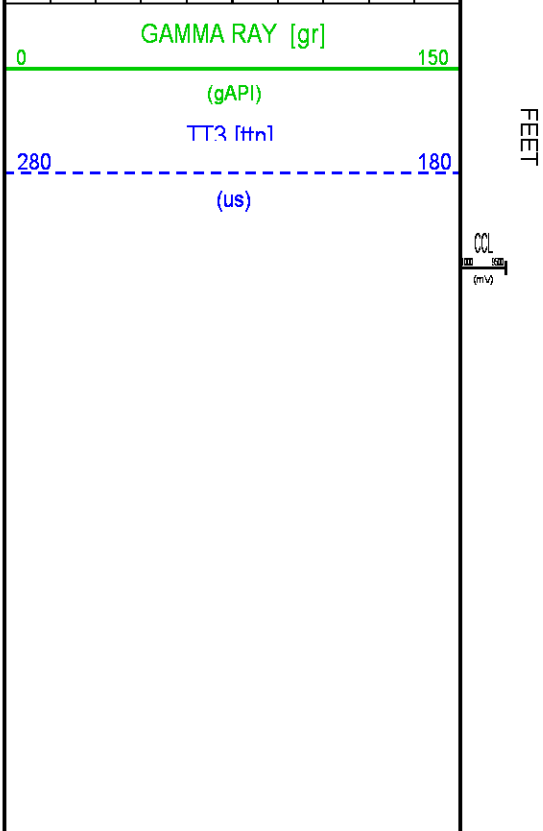
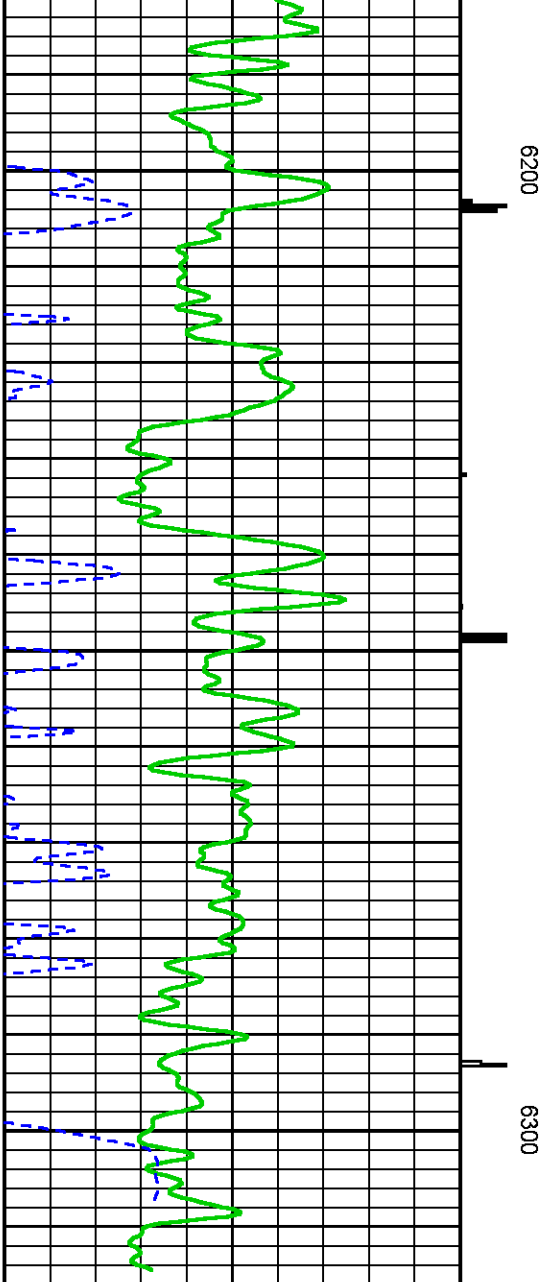












REPEAT LOG 0 PSI

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

Updates: 1

Plotted: Mon Jun 30 13:35:41 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH087278/n012e01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 5966.000 ft BOTTOM DEPTH: 6322.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	185	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
				"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-65	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	Jun 29 18:27:39 2014	CASING COLLAR LOCATOR
F1:FAMPN	Jun 29 18:27:39 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 29 18:27:39 2014	FAR WAVE FORM
F1:GR	Jun 29 18:27:39 2014	GAMMA RAY
F1:TTN	Jun 29 18:27:39 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 29 18:27:39 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

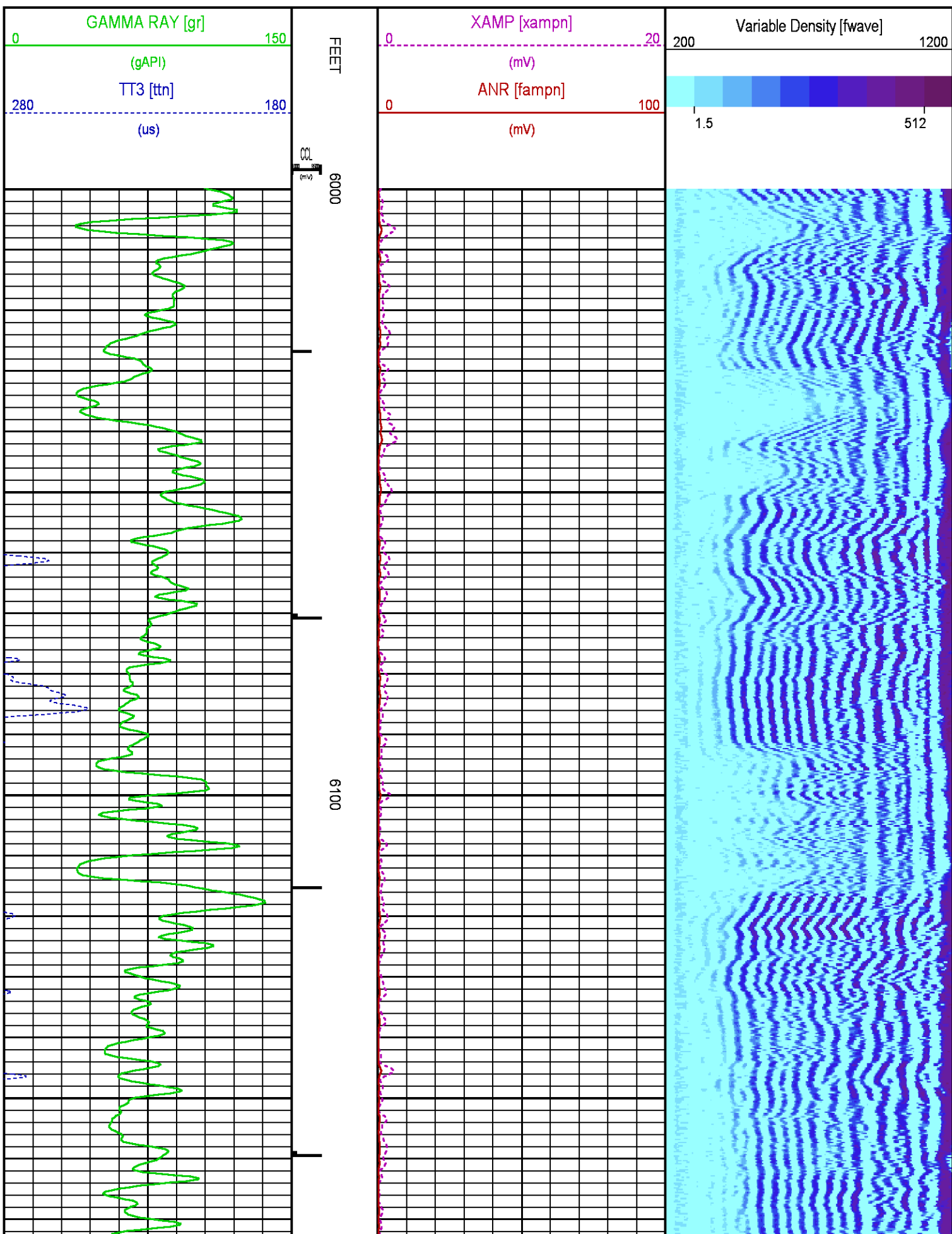
CURVE MEASURE POINT OFFSET

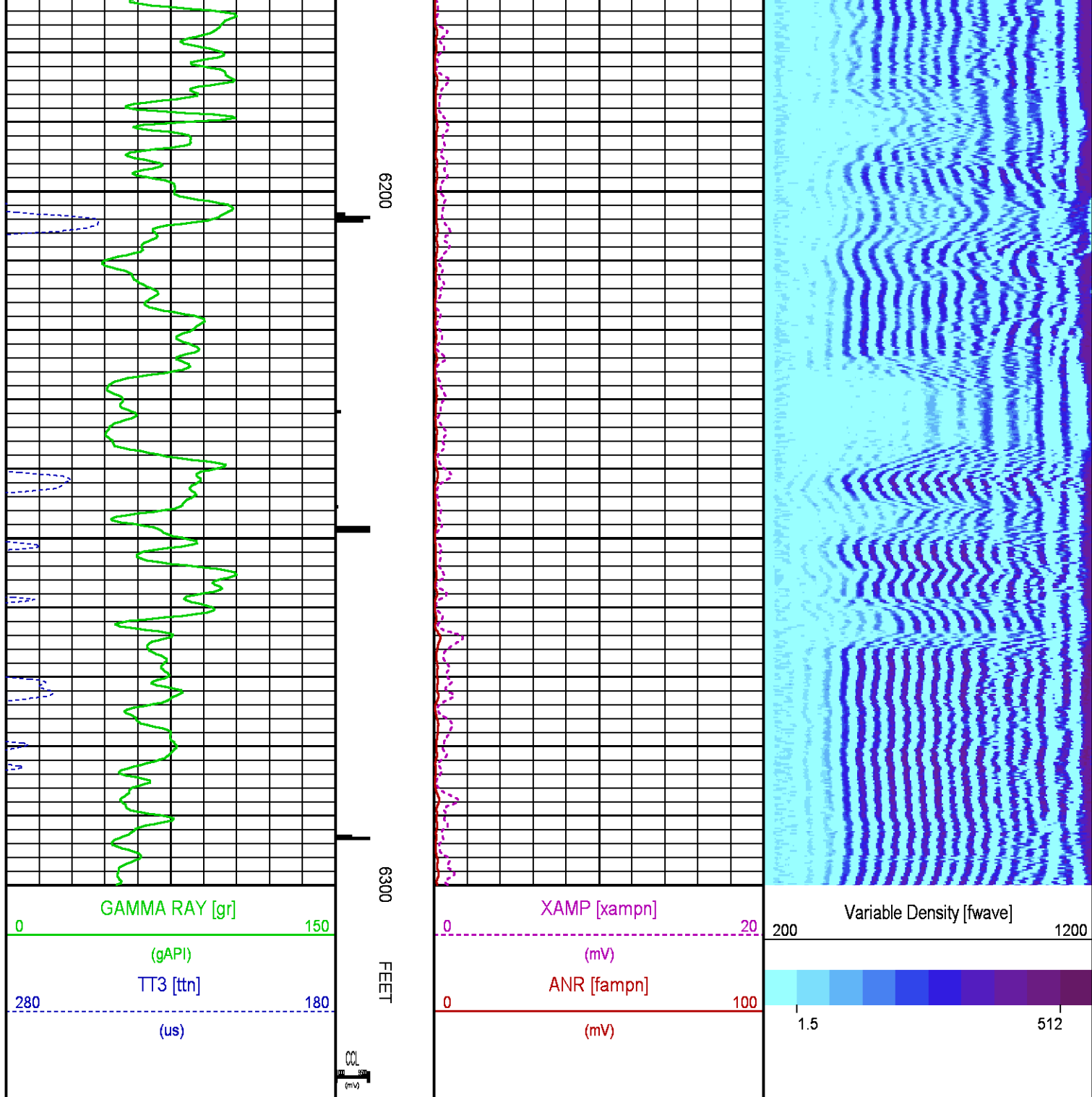
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

Presentation : HL6670:CBL_PRI_PRES_REPEAT.fvpdf [5"/100' Scale]
 Plot Interval : 6000 - 6300 Feet

Data File 1 : F1 : HL6670:/dat1a/CH087278/n012e01.xtf
 Created On : Jun 29 18:27:39 2014

Company : WPX ENERGY
Well : C&C ENERGY GM 521-13
Field : GRAND VALLEY
File Interval : 17 - 6322.25 Feet
OCT : n012e





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH087278/CBL.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Sun Jun 29 07:40:12 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)	3.23	2.71	3.60	3.72	3.74	3.50	3.54	2.79	2.44	-3.78	-0.05
AMP FLUID (mV)	336	328	327	329	328	330	330	332	332	420	328
TT (us)	218	218	218	218	218	218	218	218	218	299	218
M FACTOR	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.30	0.30	0.35	0.31

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10218495 DATE/TIME PERFORMED: Sun Jun 29 18:04:27 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	0.41	0.25	0.25	0.22	0.22	0.24	0.29	0.33	0.29	1.42	0.00
AMP AIR	0.18	0.48	0.26	0.39	0.37	0.24	0.24	0.25	0.36	-0.87	99.00

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.31	0.00	1.01

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2459XA 10218504 DATE/TIME PERFORMED: Sat Jun 7 11:54:50 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	101.24	337.51	236.3	0.783	79.28	264.28	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2459XA 10218504 DATE/TIME PERFORMED: Sat Jun 7 11:56:22 2014

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK DA-041

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	101.87	335.24	0.783	79.76	262.50	182.74
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH087278/CBL_2.tdg

23.02'

CABLEHEAD

Diameter : 2.75"
Length : 2.25'



Length : 10.25'
Weight : 10 lbs
Series : CABL234
Mnemonic : CBLH

RADIAL BOND TOOL

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

NEAR RCVR 13.81'

FAR RCVR 12.85'

CCL 8.65'

GR 6.79'

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

NEU 1.40'

BULL PLUG 2 3/4

0.00'

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

INSTRUMENT CONFIGURATION

CABLEHEAD

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

RADIAL BOND TOOL

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

RAL NEUTRON/GR/CCL/CHV DETECTOR

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

BULL PLUG 2 3/4

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

23.02'

NEAR RCVR 13.81'

FAR RCVR 12.85'

CCL 8.65'

GR 6.79'

NEU 1.40'

0.00'