



FILE NO: CH089583
 COMPANY: WPX ENERGY
 WELL: FEDERAL NER 324-32
 FIELD: RULISON
 COUNTY: GARFIELD STATE CO

Ver. 3.87
 32 6S 93W
 RU 23-5 PAD
 NABORS 576
 LOCATION:
 SHL: 127' FNL & 2575' FWL(5 7S 93W)
 BH: 1061' FSL & 2023' FWL(32 6S 93W)
 SEC 32 TWP 6S RGE 93W
 OTHER SERVICES
 RPM

PERMANENT DATUM GL ELEVATION 7603 FT
 LOG MEASURED FROM KB 26 FT ABOVE P.D.
 DRILL. MEAS. FROM KB
 ELEVATIONS:
 KB 7629 FT
 DF
 GL 7603 FT

DATE	01-Sep-2014
RUN	1
TRIP	1
SERVICE ORDER	US089583
DEPTH DRILLER	10174 FT
DEPTH LOGGER	10140 FT
BOTTOM LOGGED INTERVAL	10130 FT
TOP LOGGED INTERVAL	26 FT
TIME STARTED	11:30
TIME FINISHED	15:00
OPERATOR RIG TIME	3.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	90 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 F/MN
MAX. RECORDED TEMP.	242 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	GRAND JCT.
RECORDED BY	JEFF DUCY
WITNESSED BY	NEWELL

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	1114 FT
8.75 IN	1114 FT	10192 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	1114 FT
4.5 IN	11.6 LB/F	P-110	0 FT	10192 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 2 feet.

Logged with 0 PSI at wellhead.

BHT = 242 degF
 SJ = 6902' - 6924

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 17:52:59 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH089583/n012e02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 27.000 ft BOTTOM DEPTH: 10146.069 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*)	174	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*)	-74	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	135	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

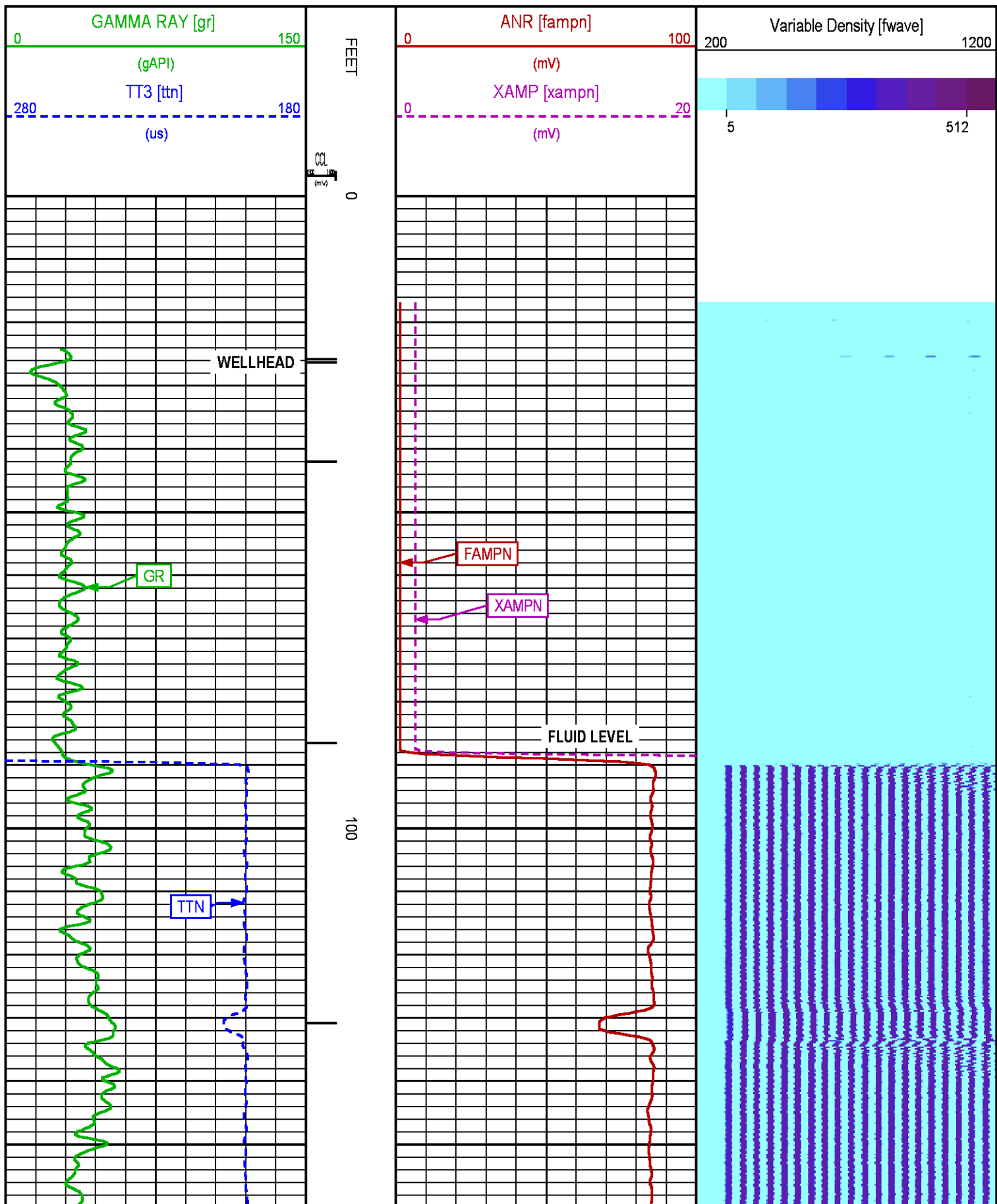
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Sep 1 12:18:56 2014	CASING COLLAR LOCATOR
F1:FAMPN	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 1 12:18:56 2014	FAR WAVE FORM
F1:GR	Sep 1 12:18:56 2014	GAMMA RAY
F1:TTN	Sep 1 12:18:56 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

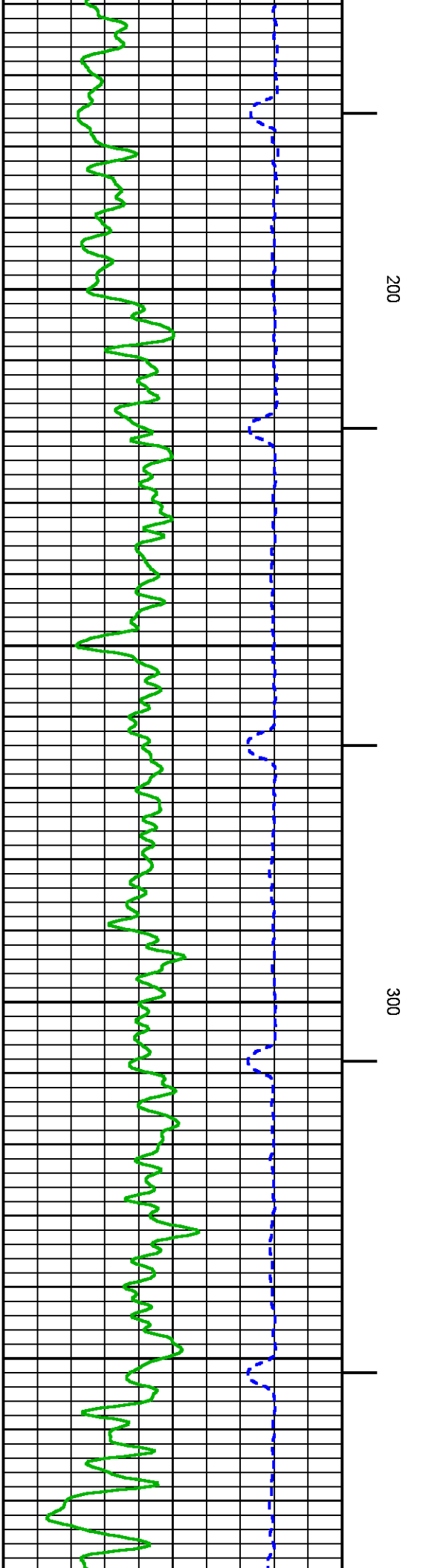
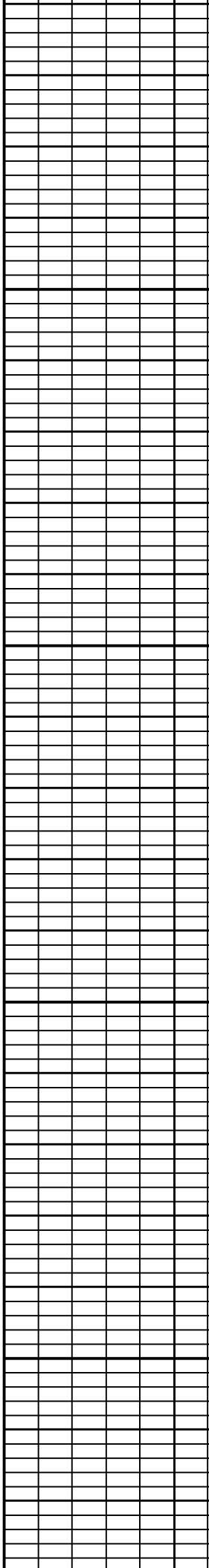
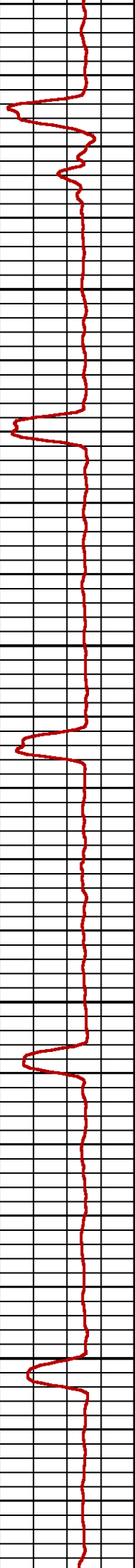
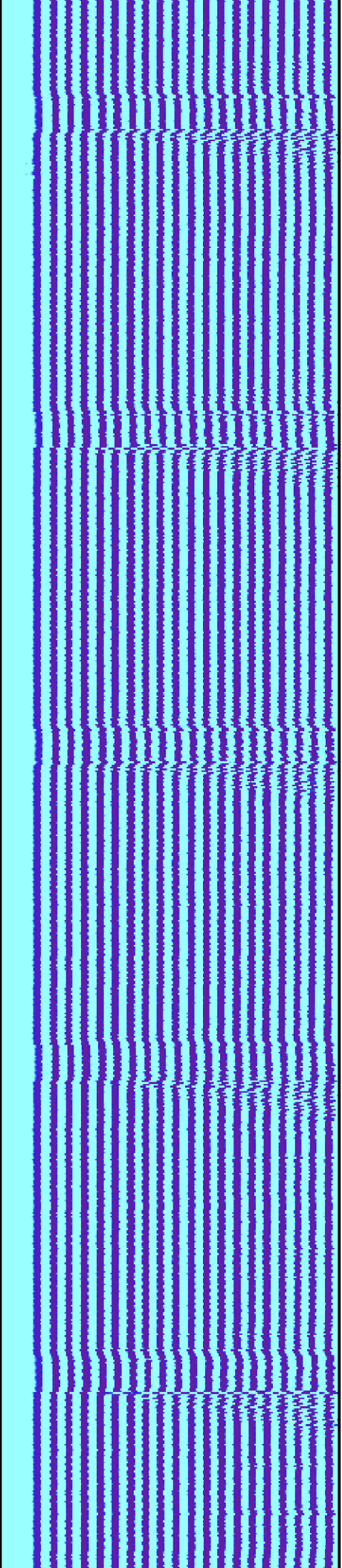
CURVE MEASURE POINT OFFSET

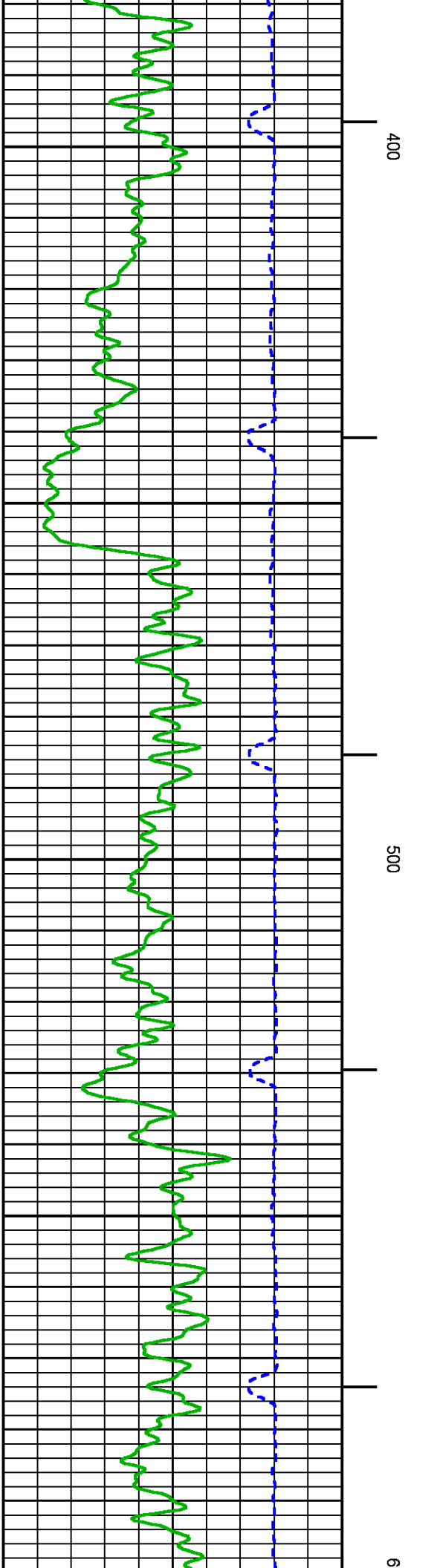
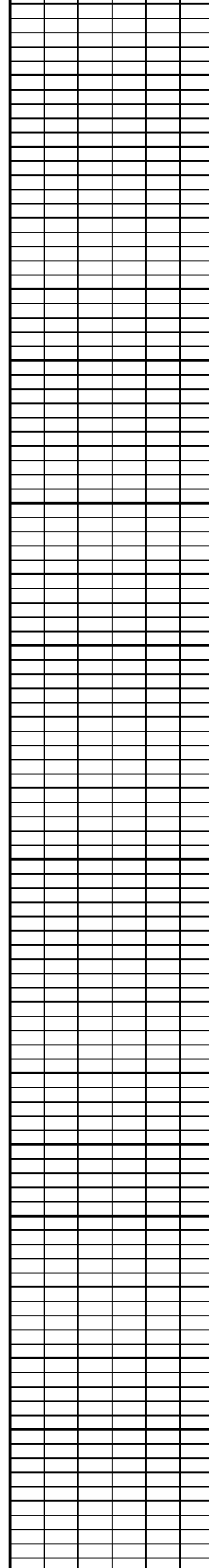
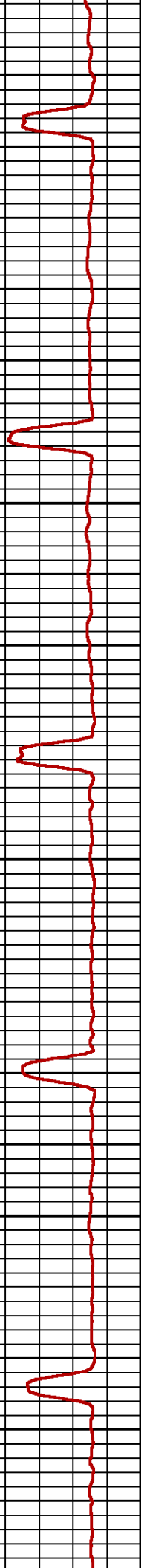
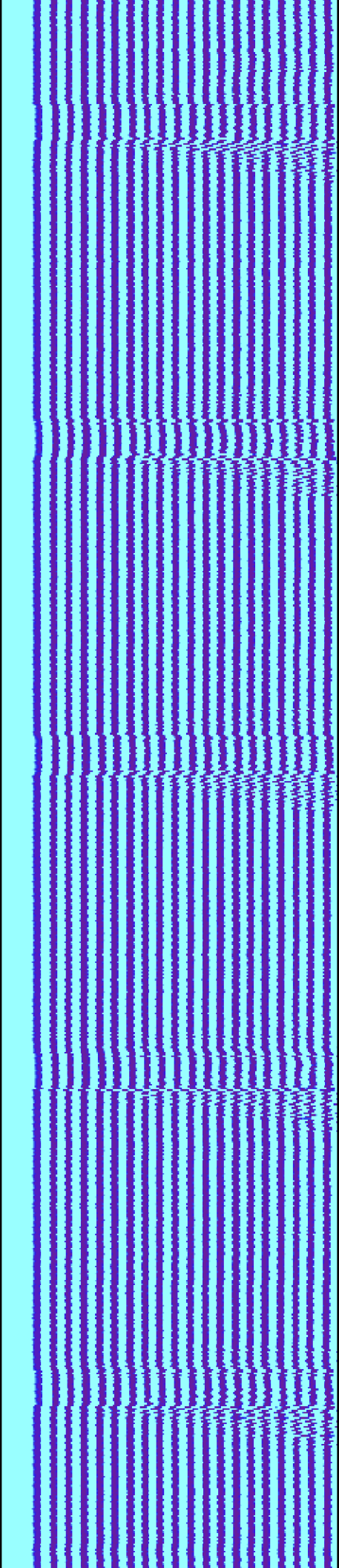
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

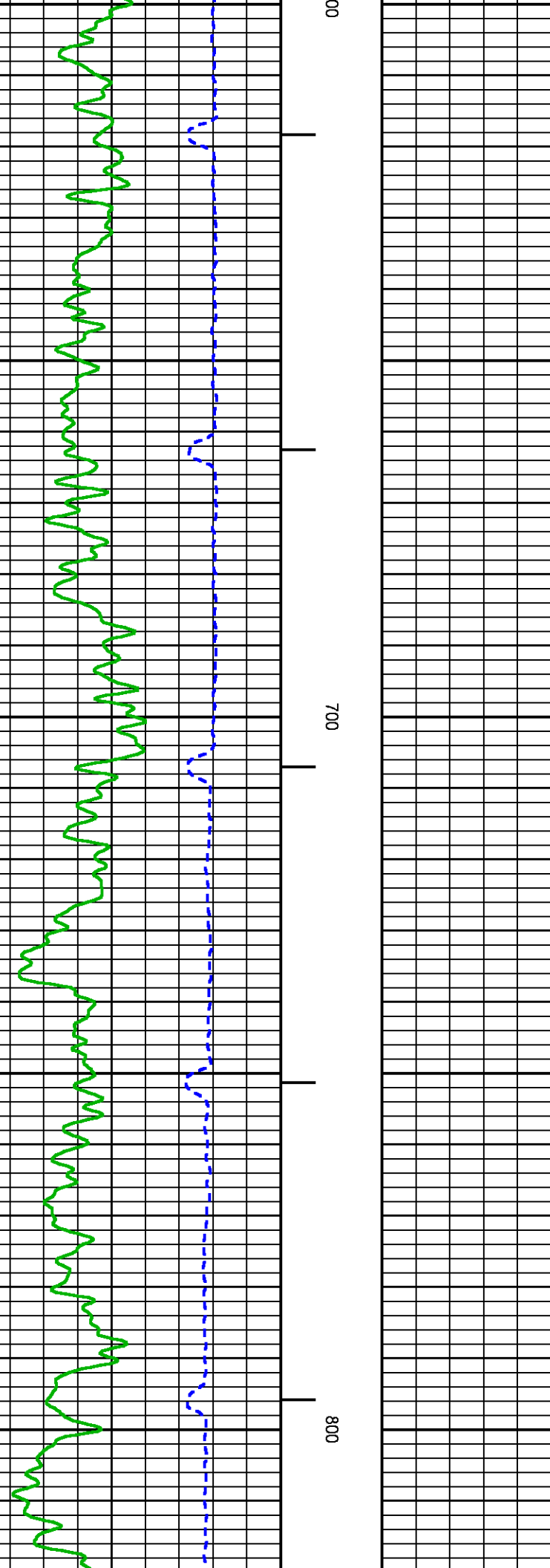
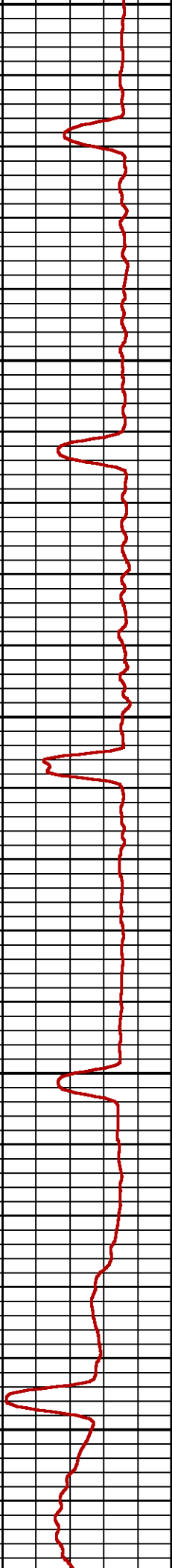
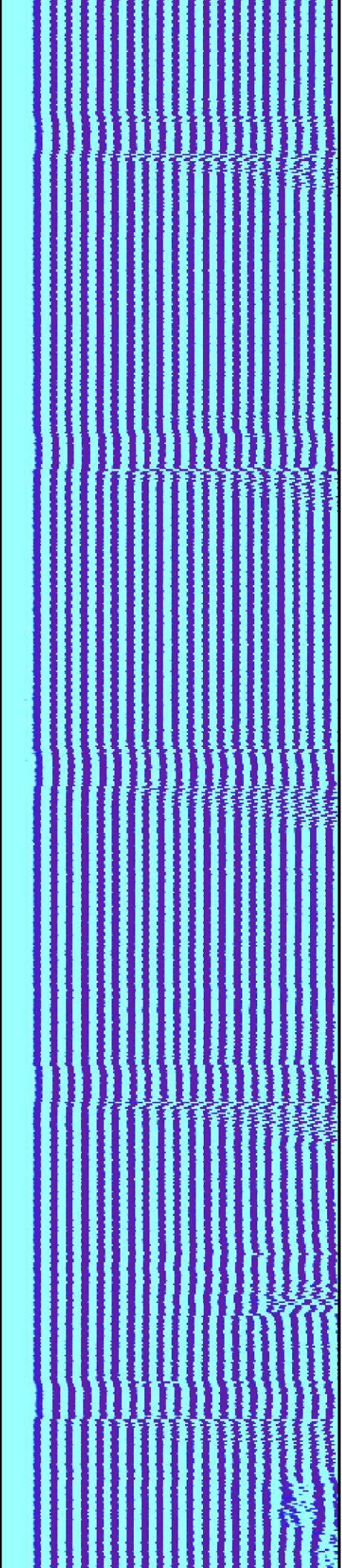
Presentation : HL6670:/dat1a/CH089583/324CBL_MAIN_PRIMARY.TVpdf [5 7100 Scale]
Plot Interval : 0 - 10145 Feet

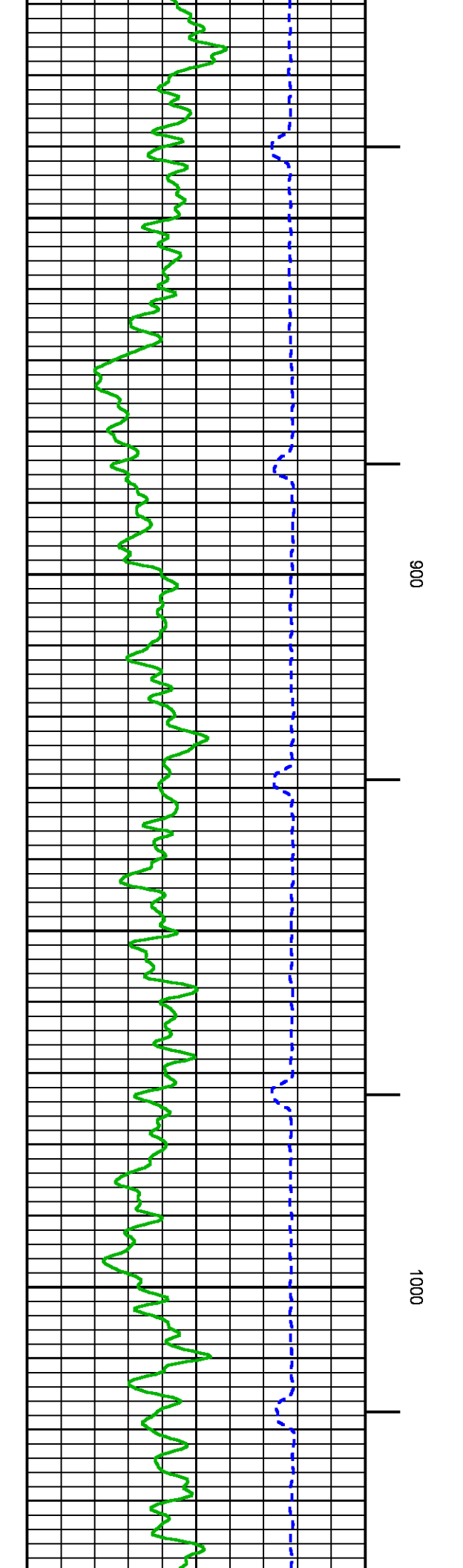
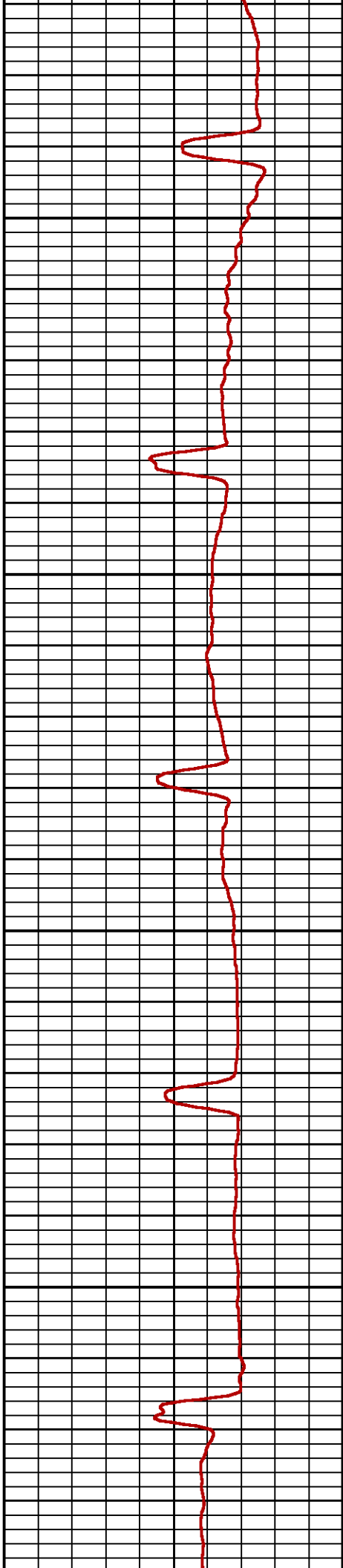
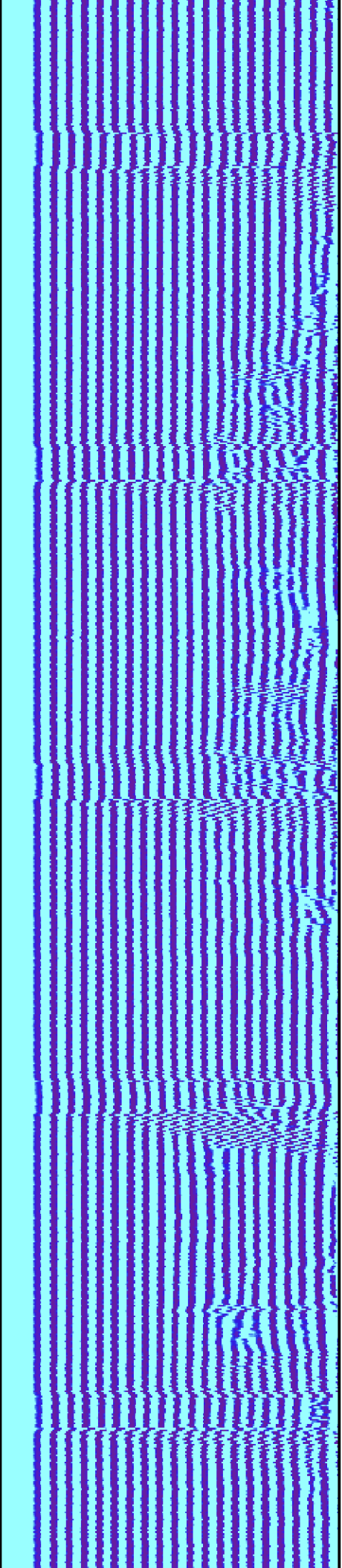
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Created On : Sep 1 12:18:56 2014
Company : WPX ENERGY
Well : FEDERAL NER 324-32
Field : RULISON
File Interval : 15.75 - 10148.5 Feet
OCT : n012e

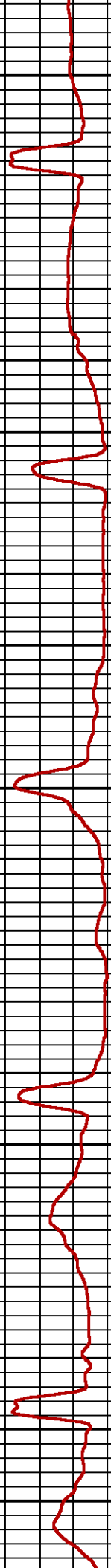
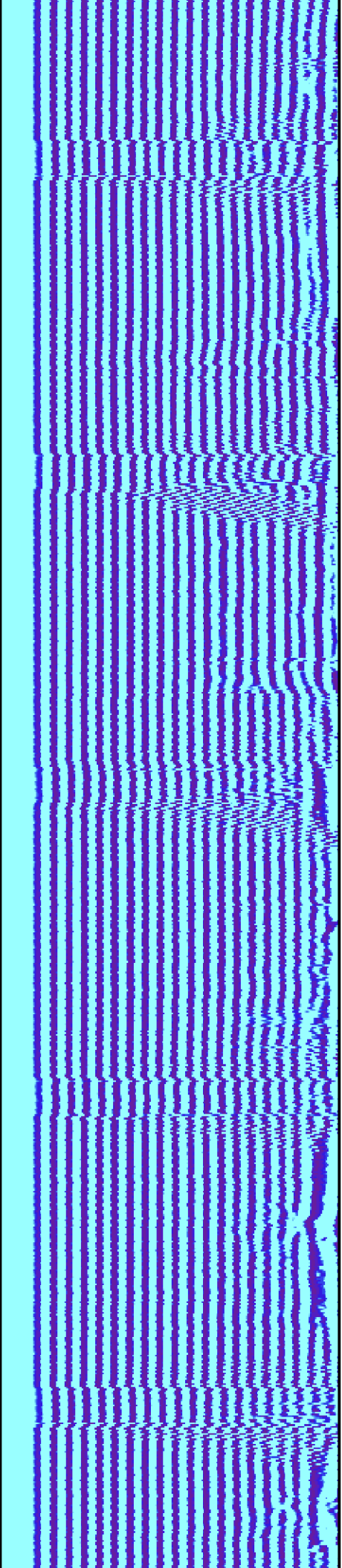






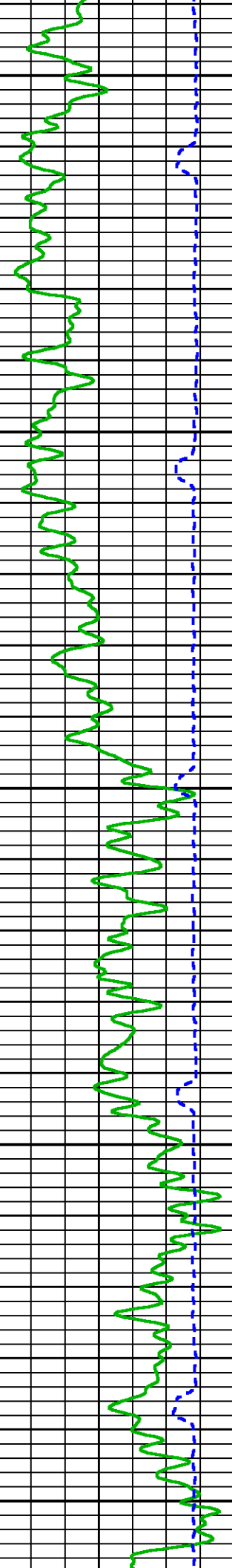


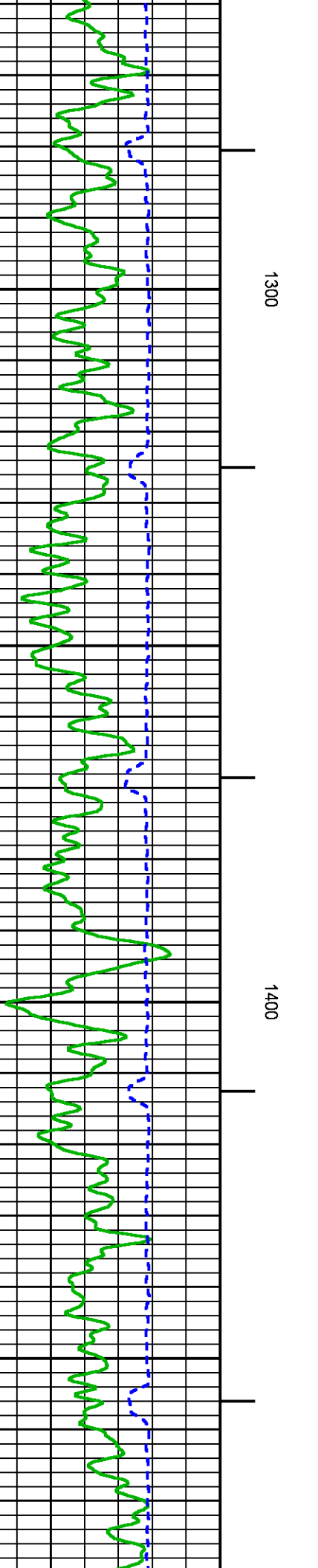
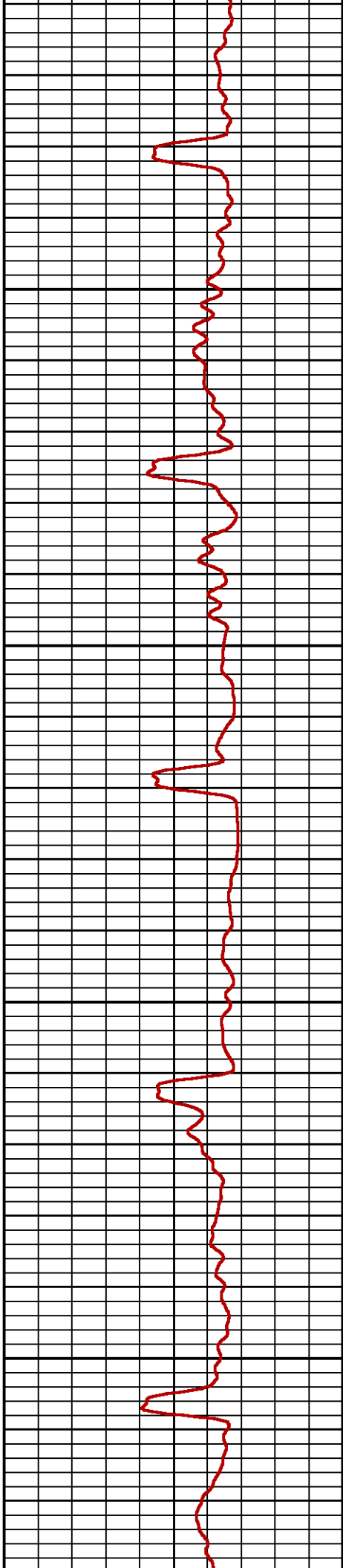
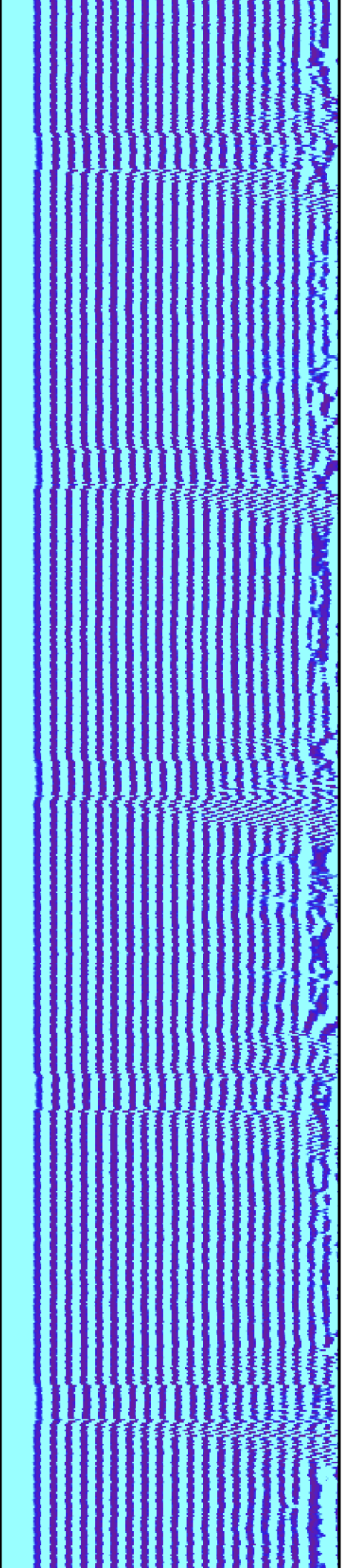


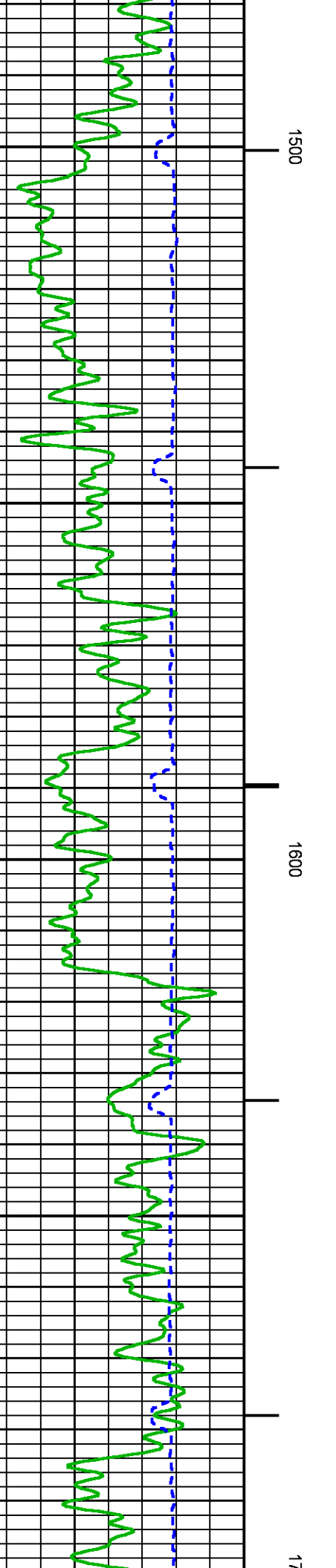
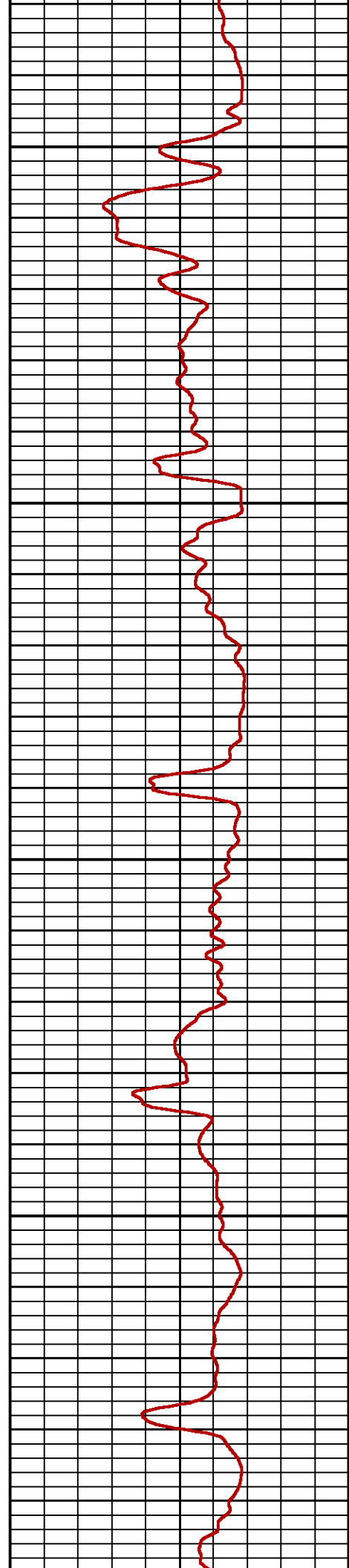
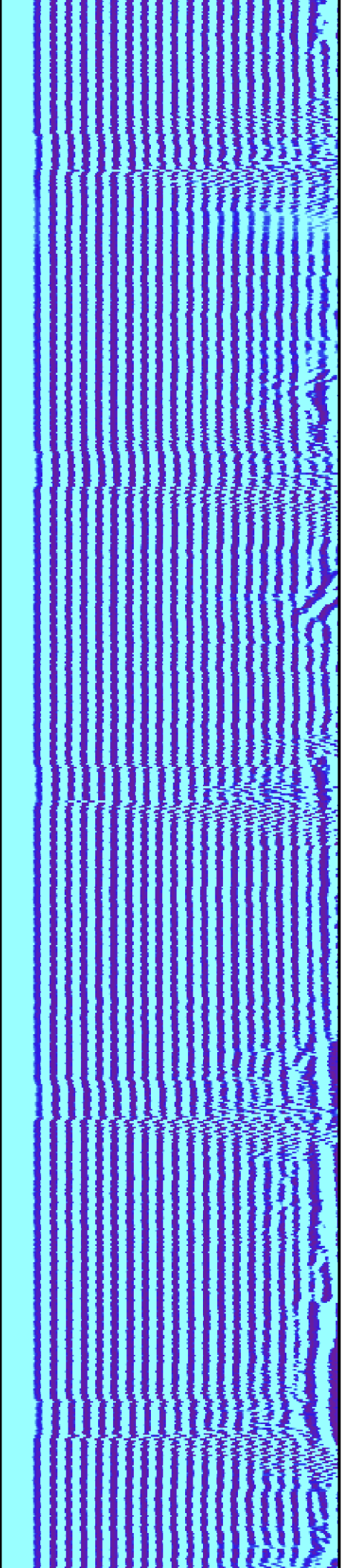


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1200



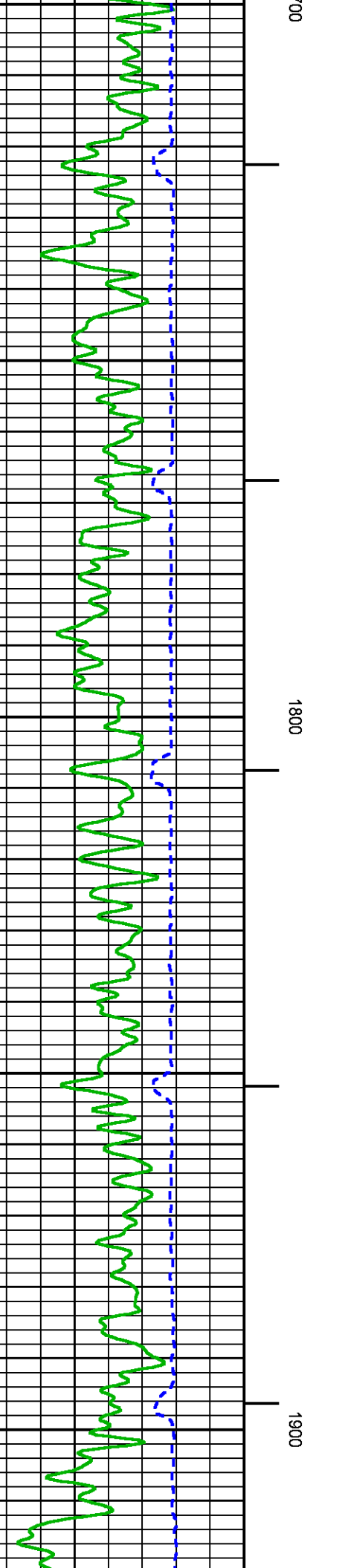
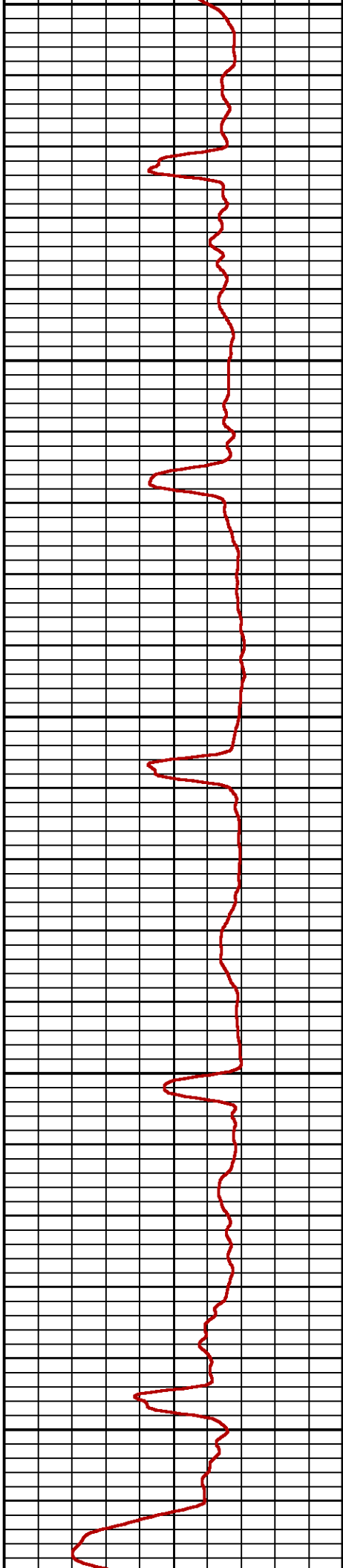
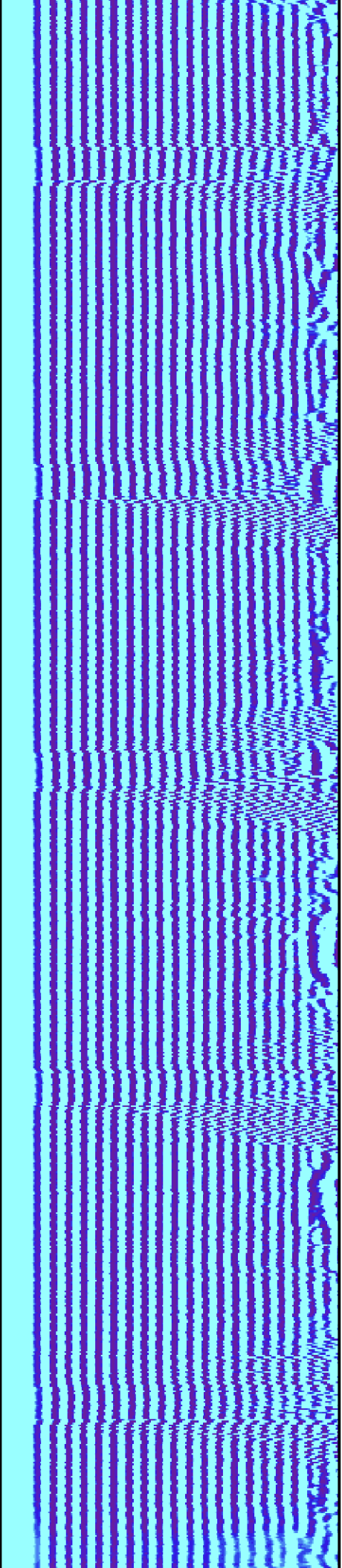




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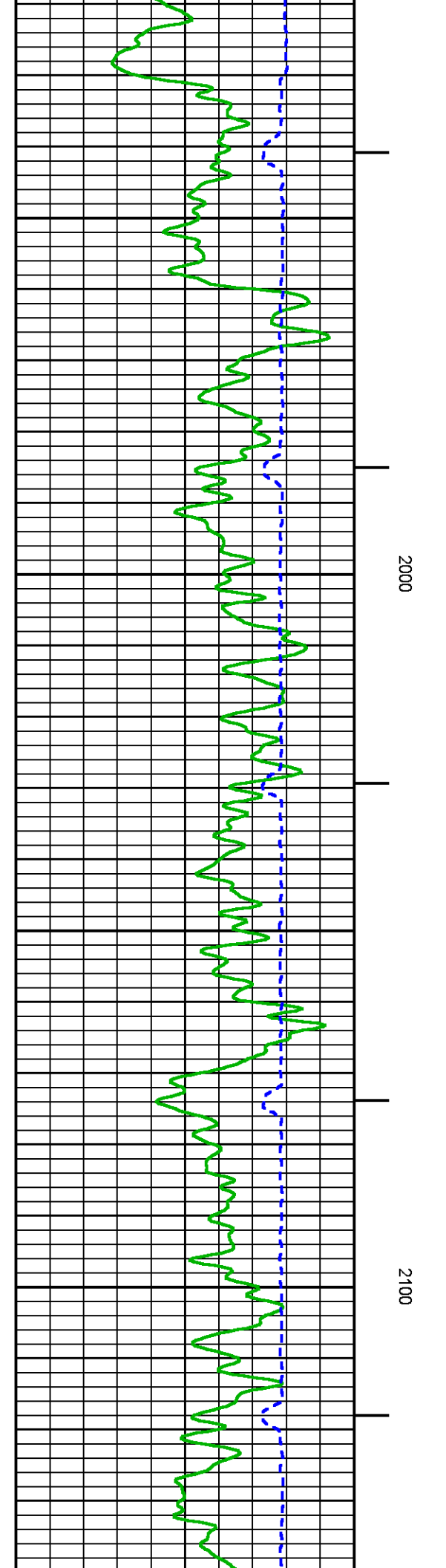
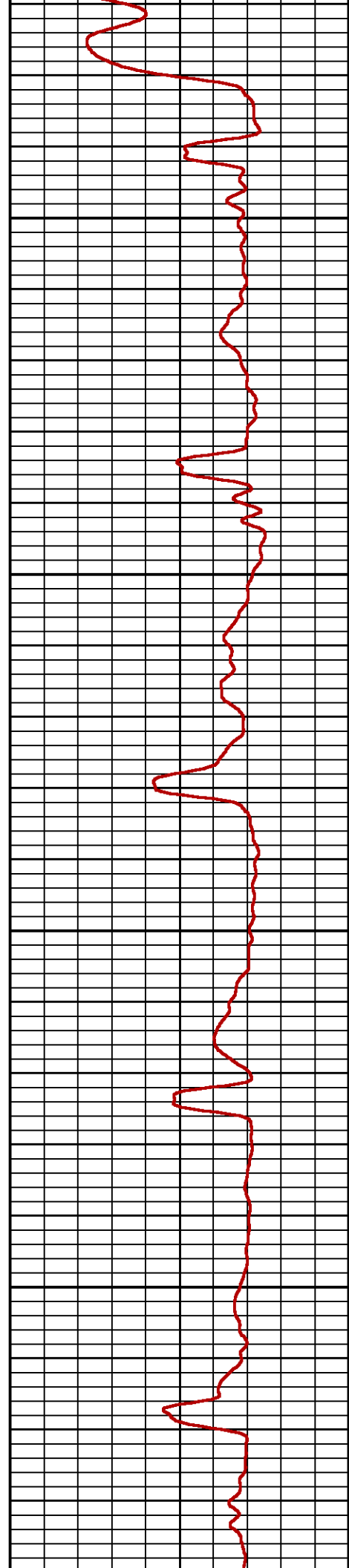
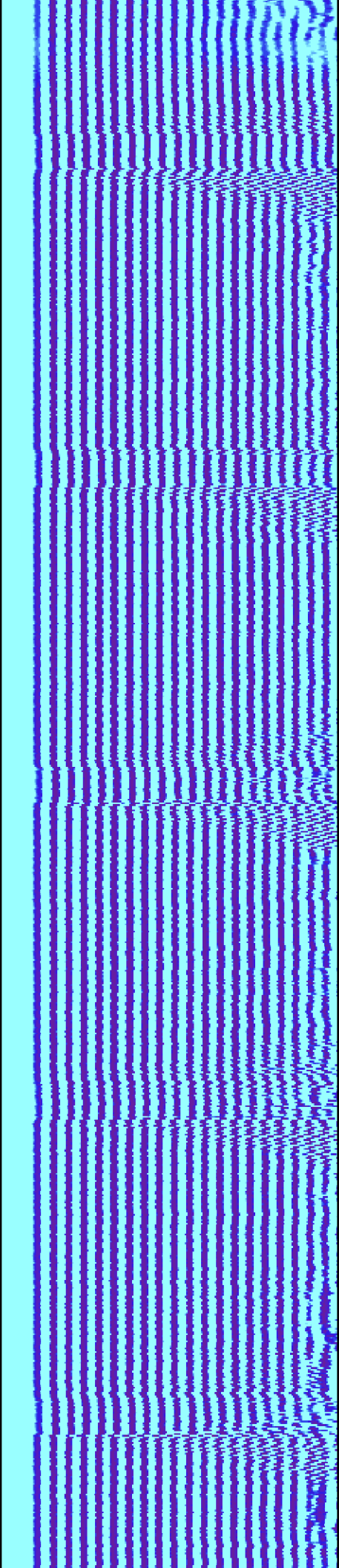
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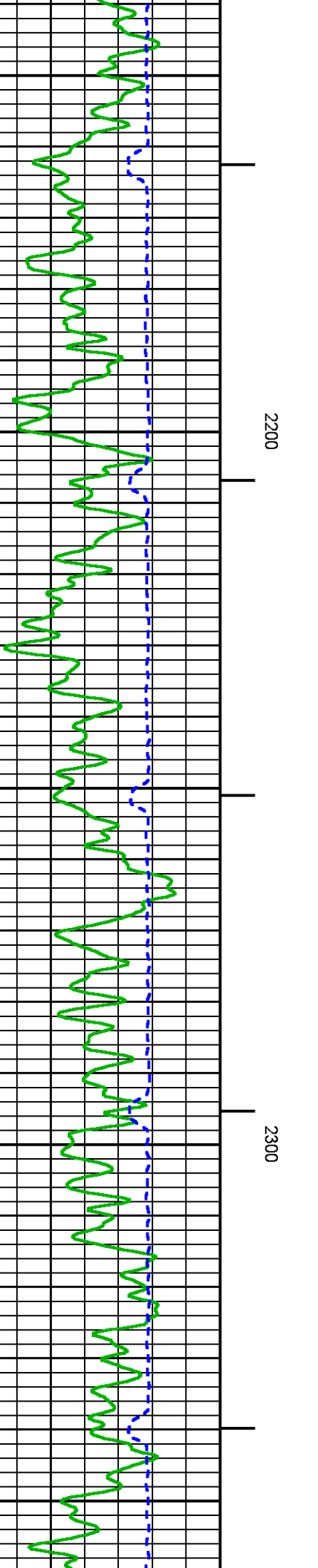
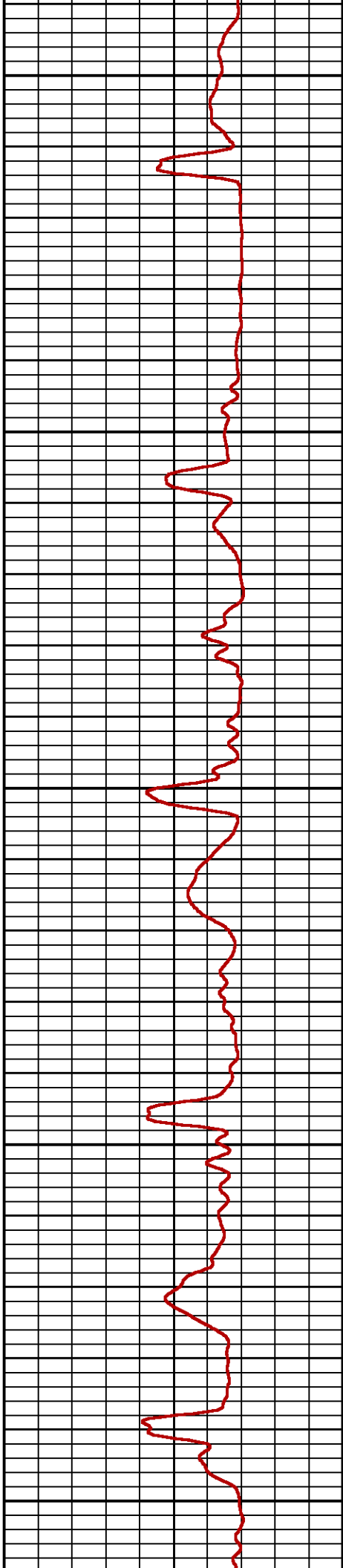
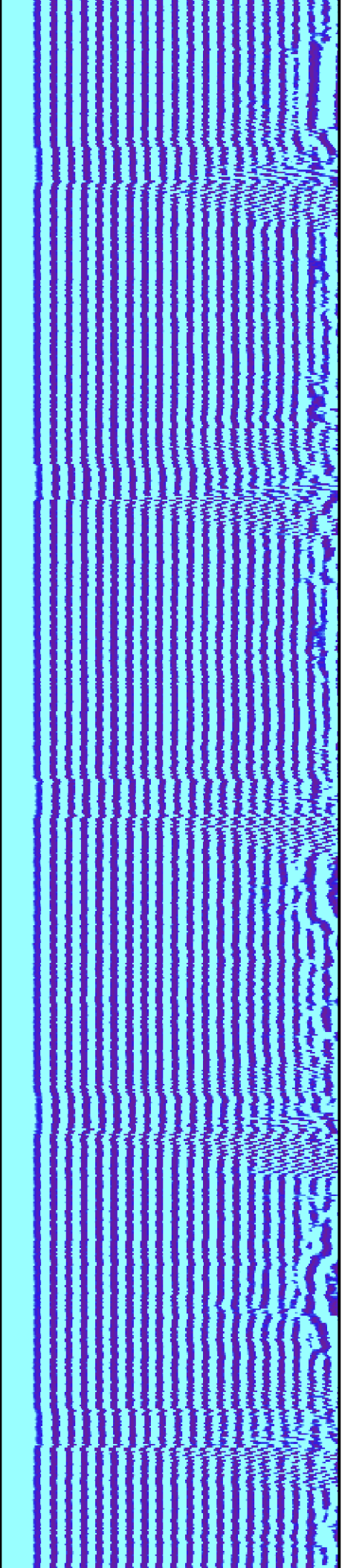


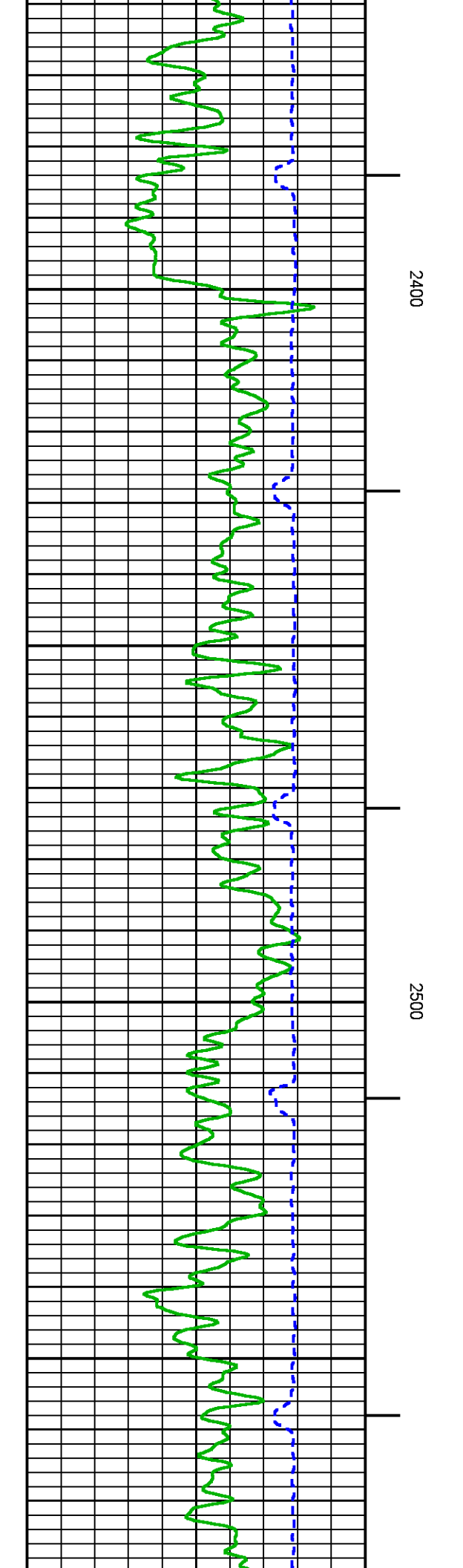
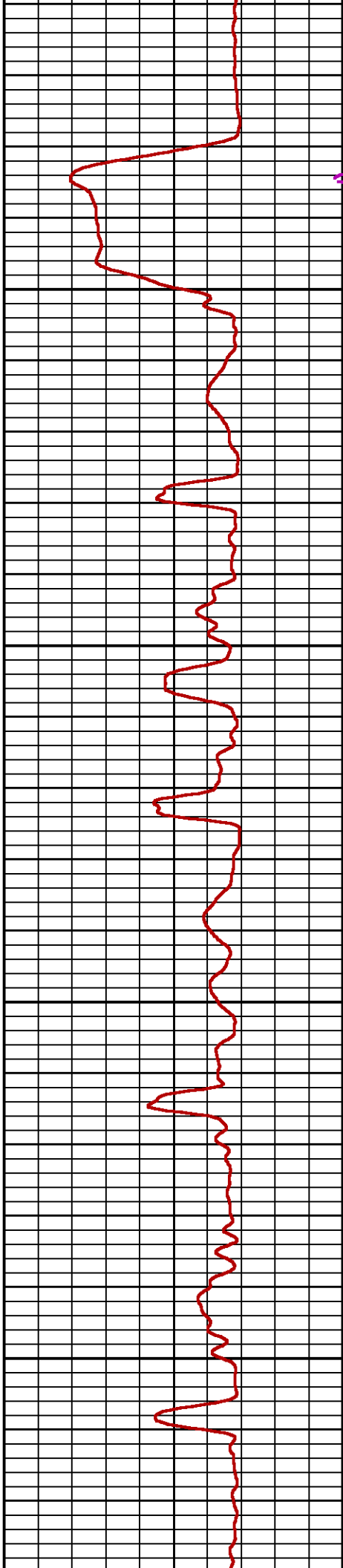
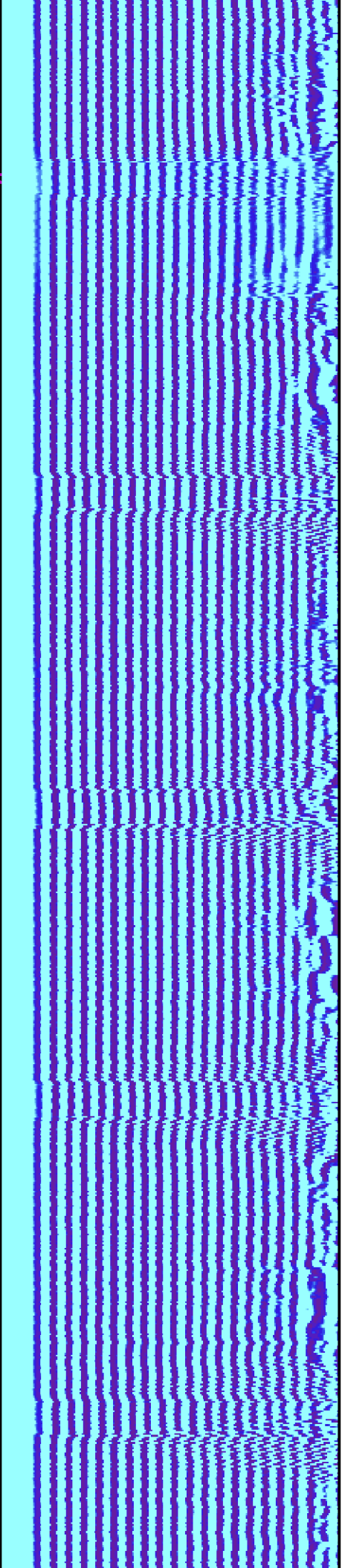
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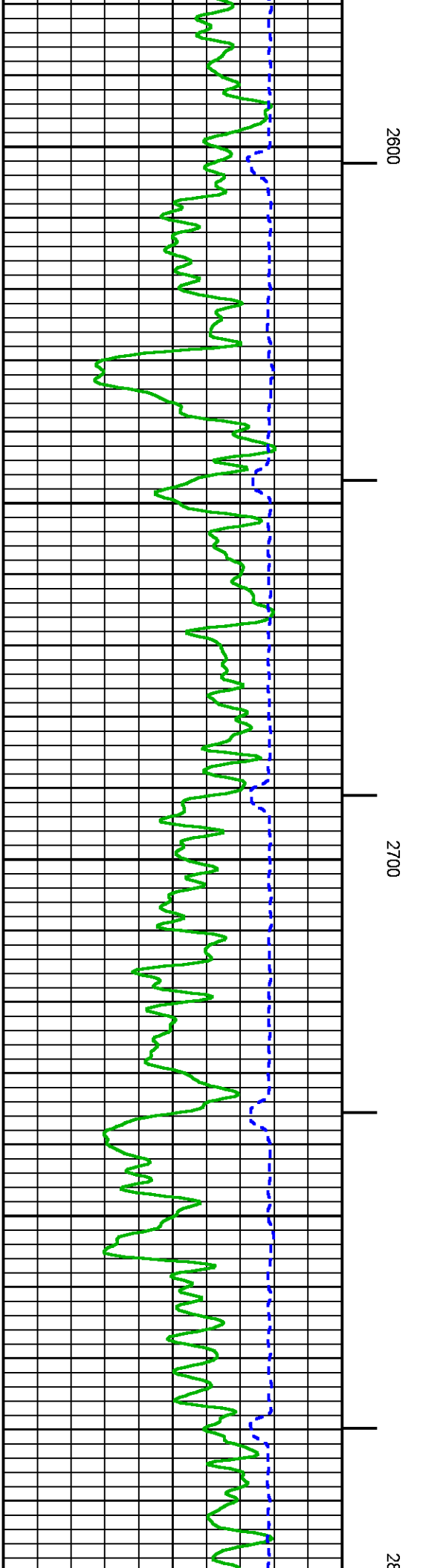
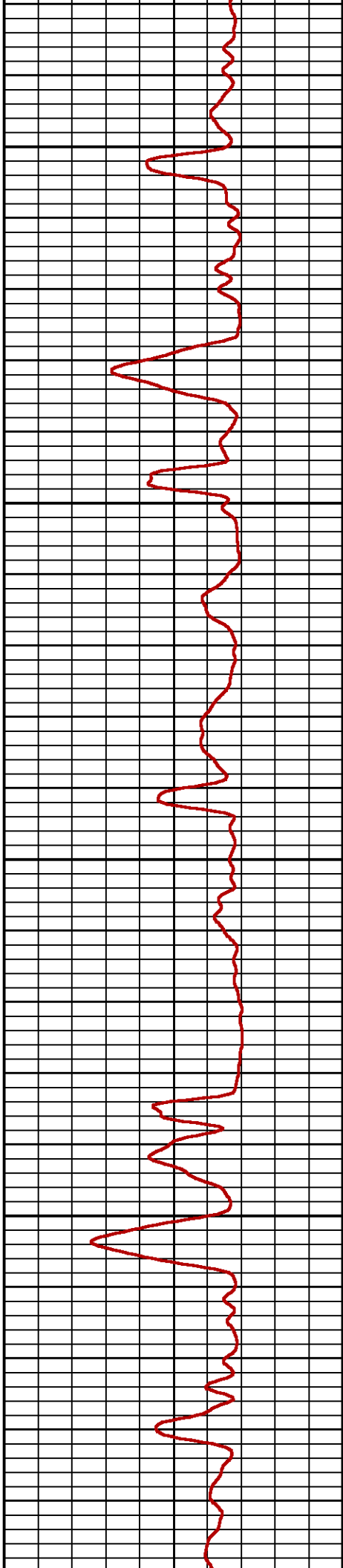
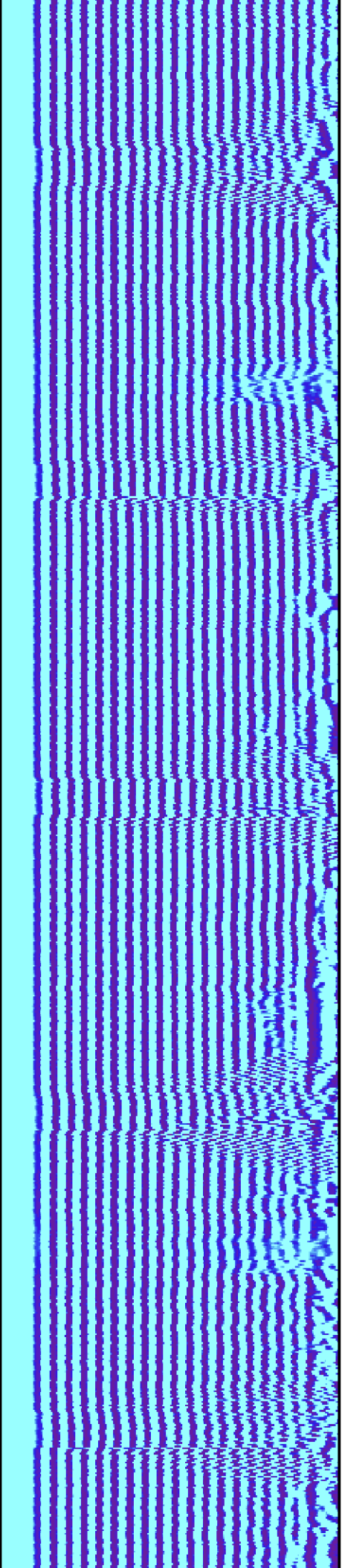
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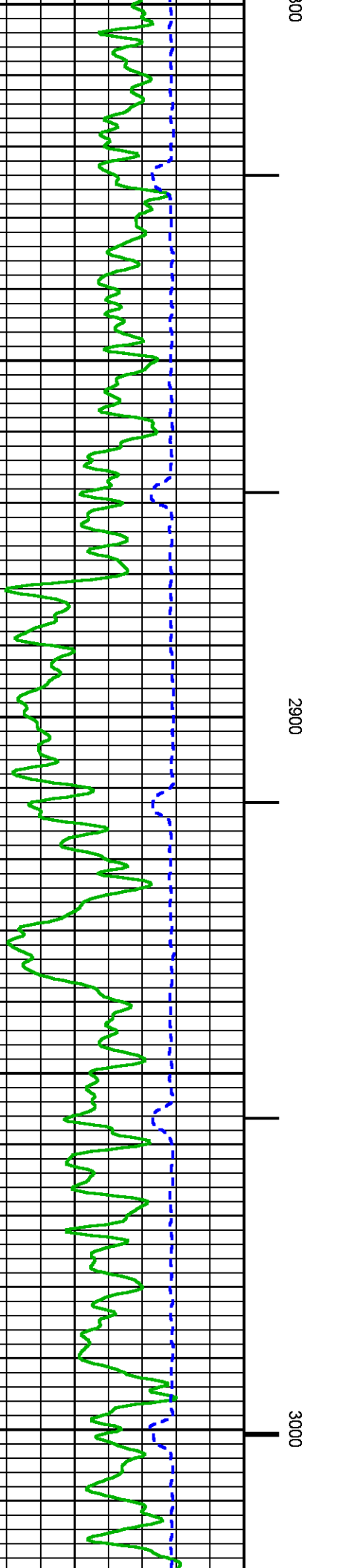
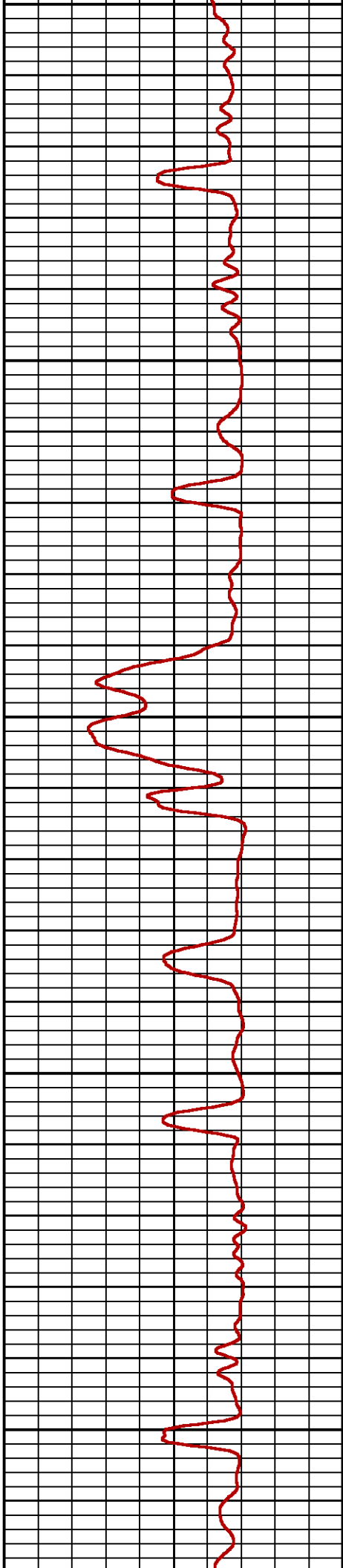
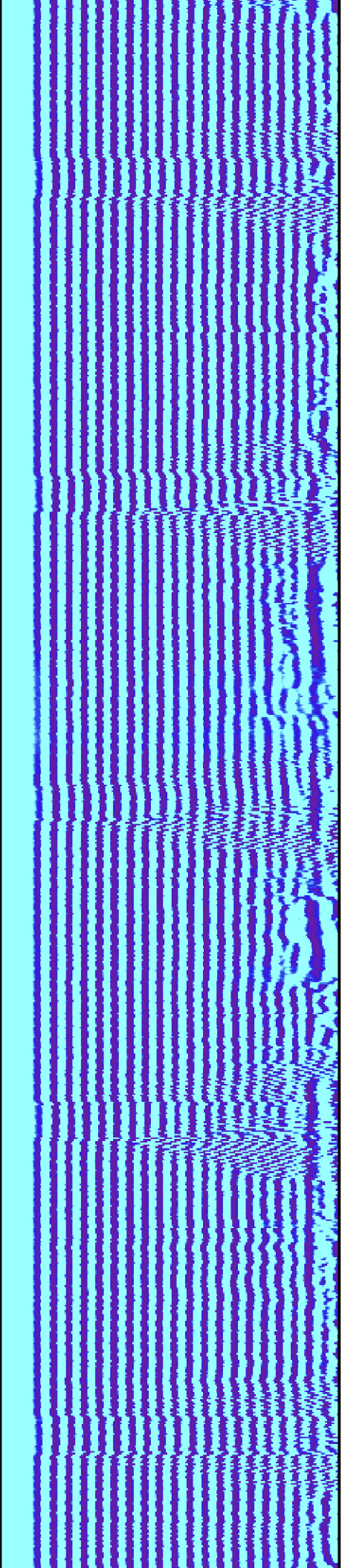
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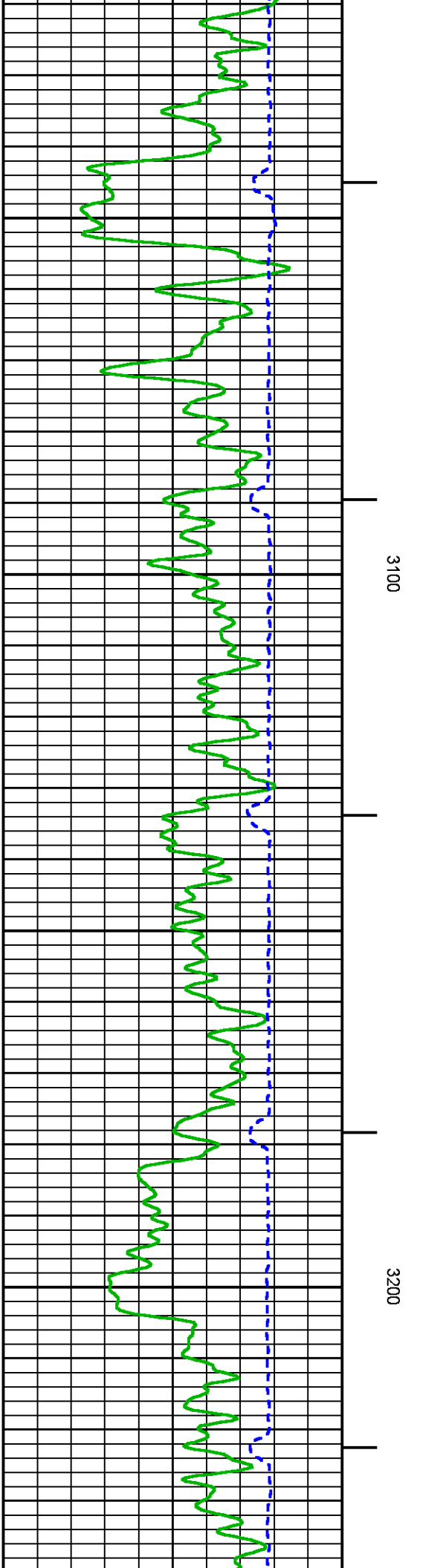
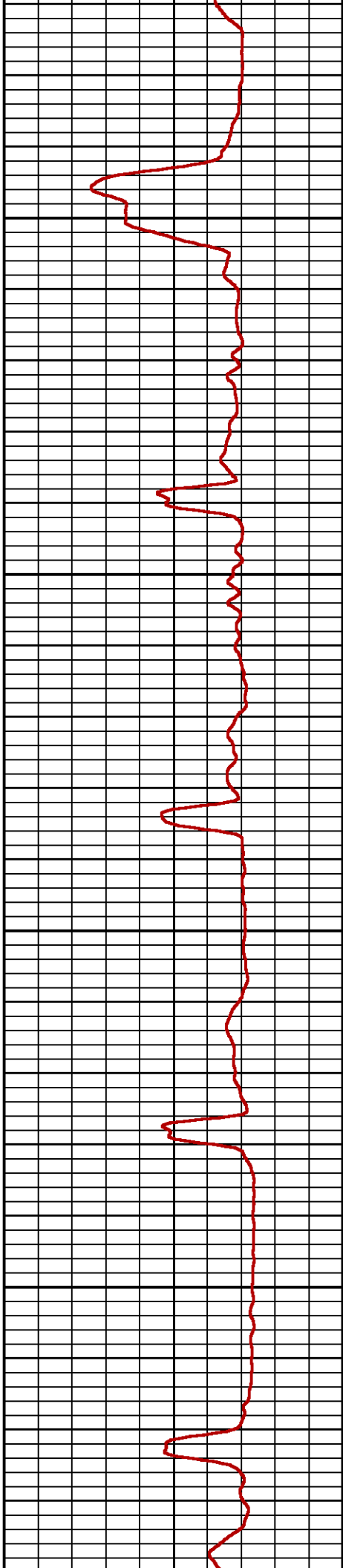
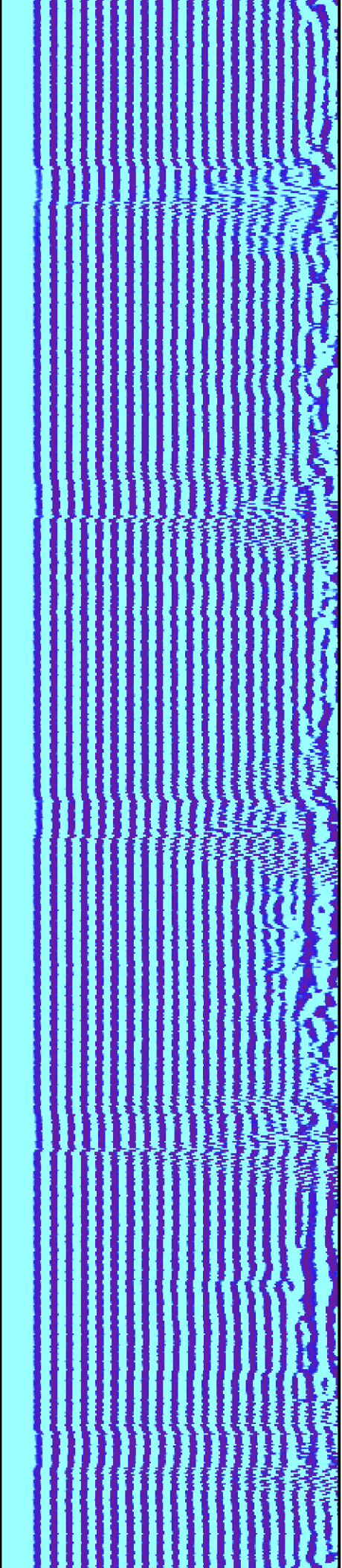


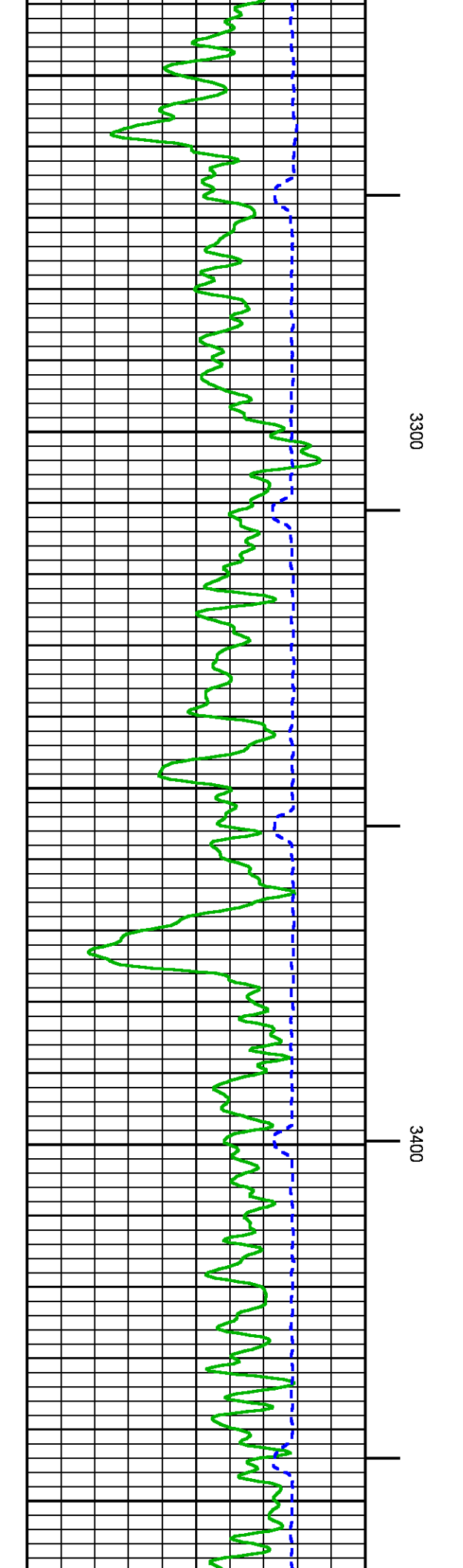
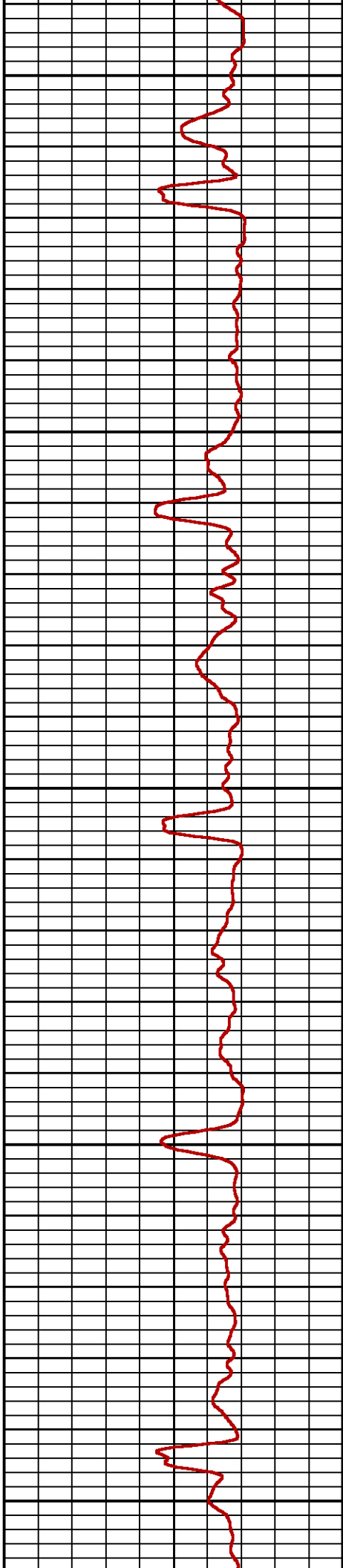
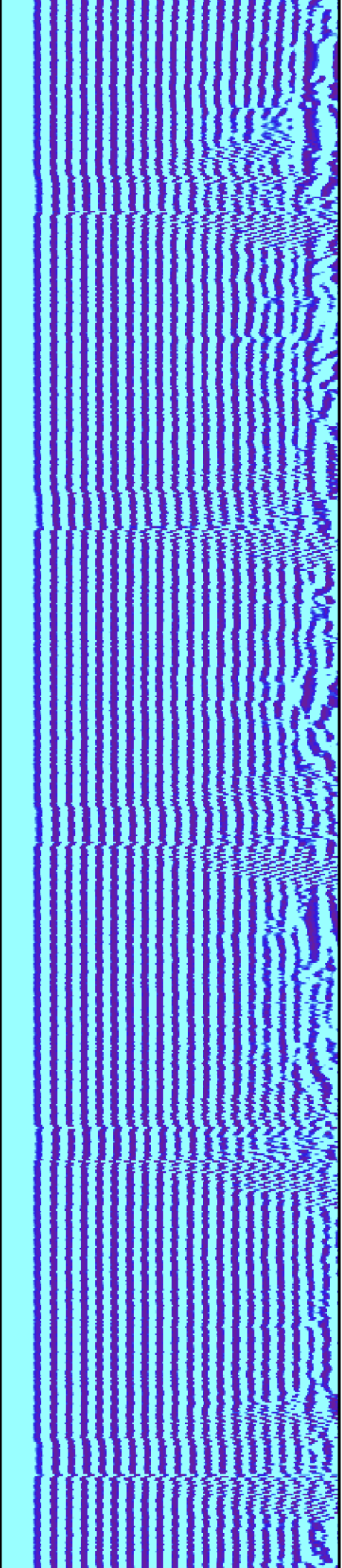


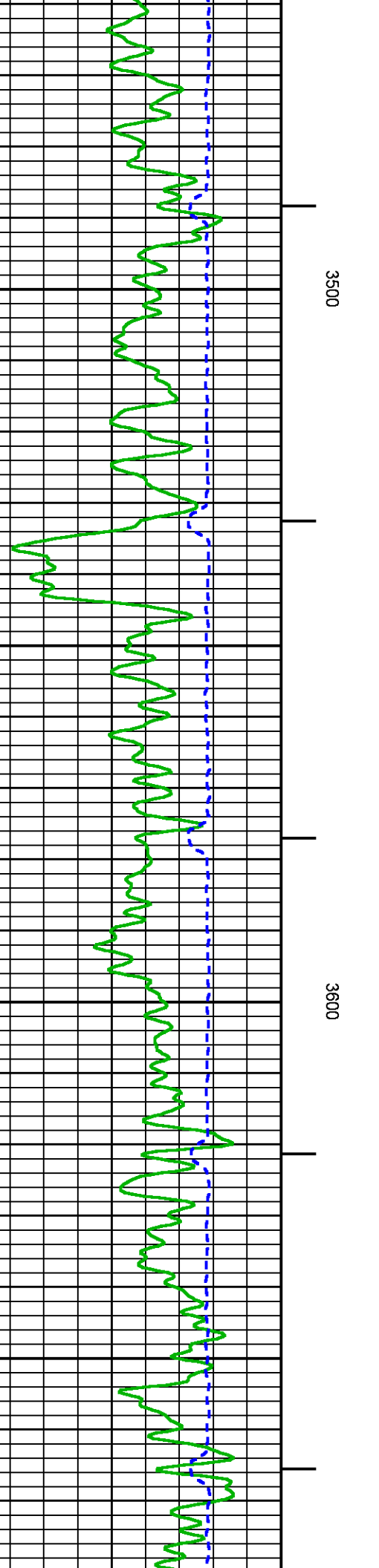
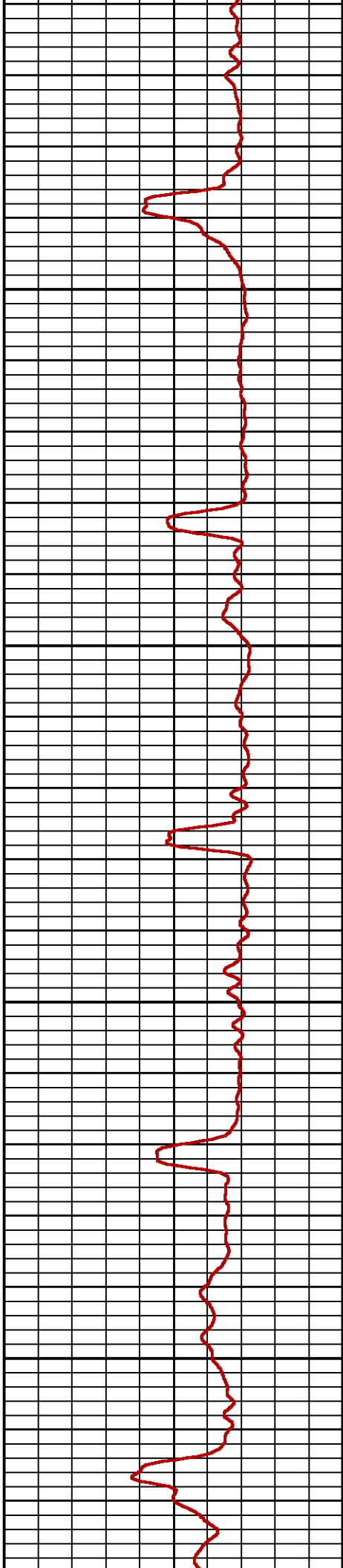
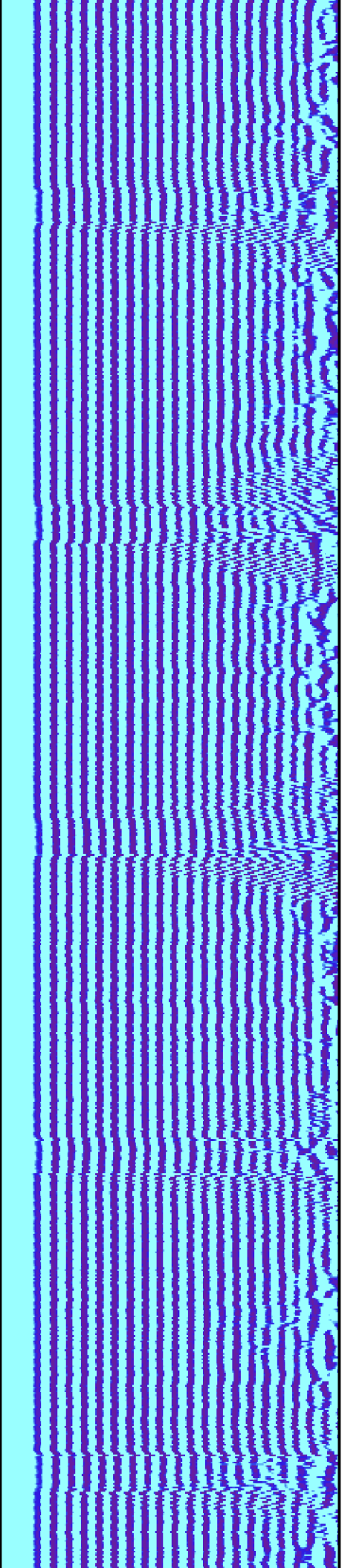
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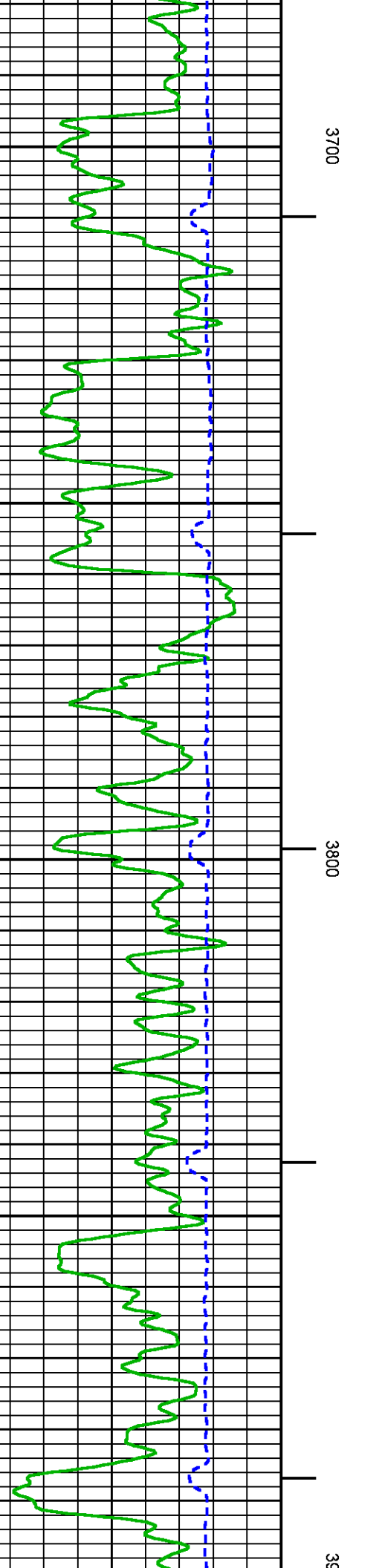
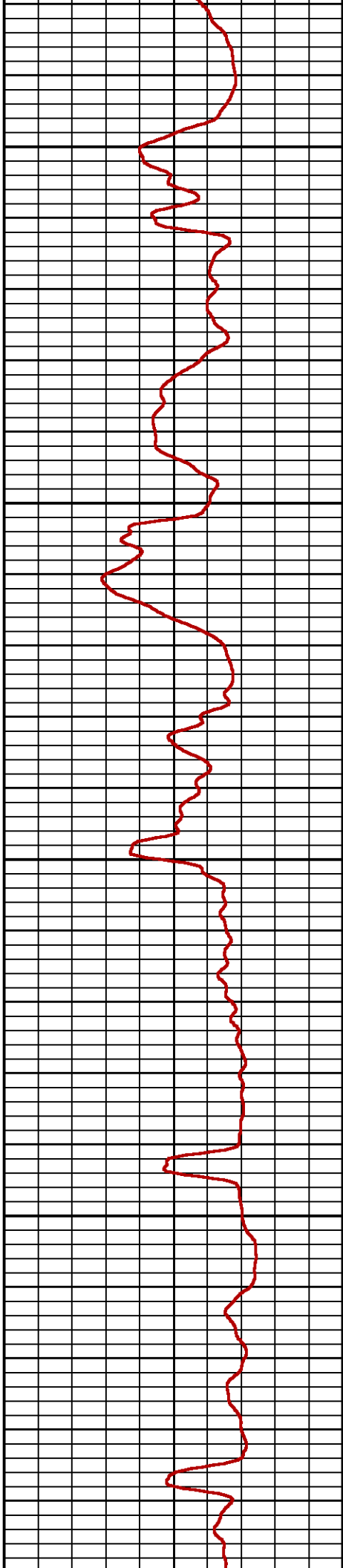
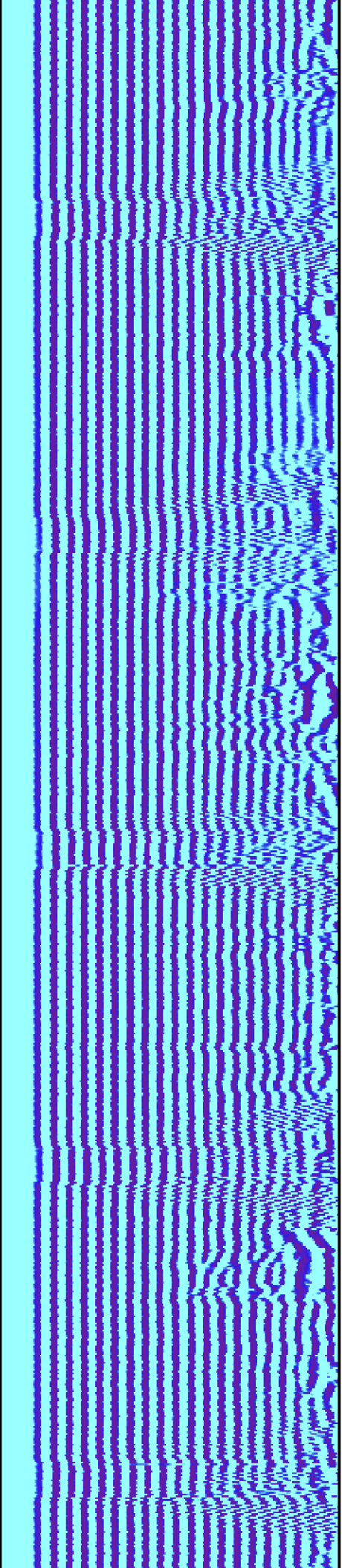
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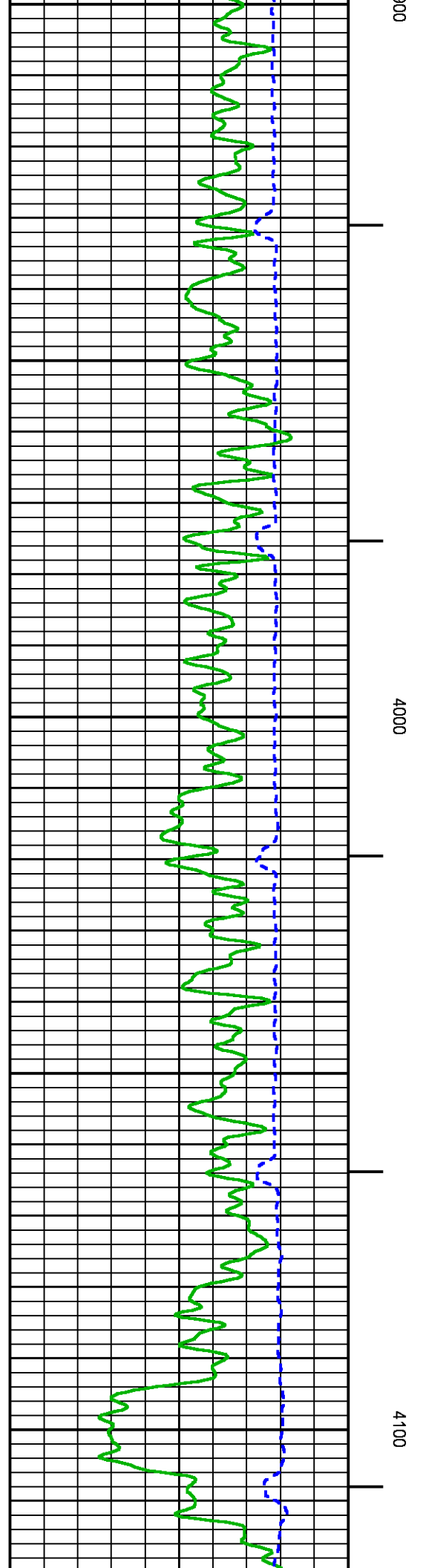
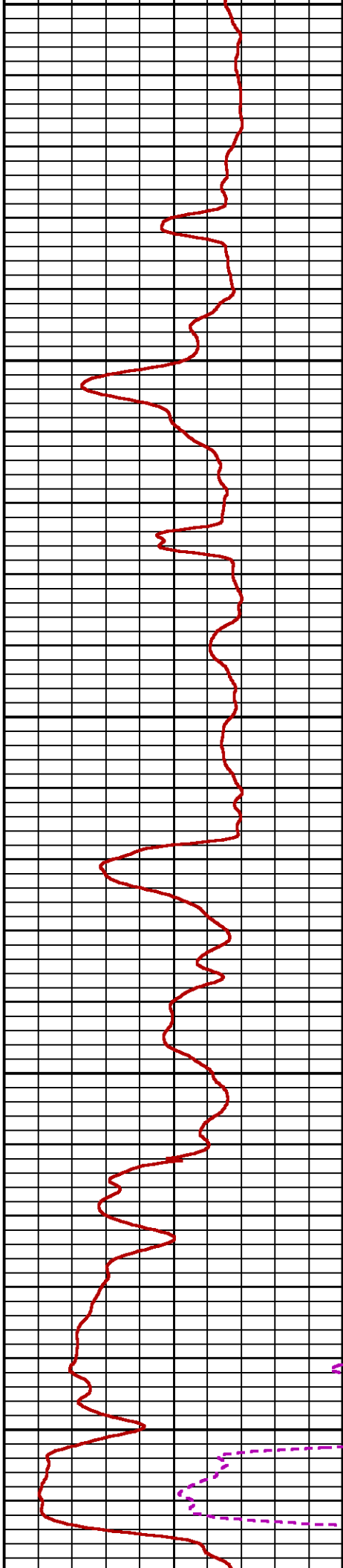
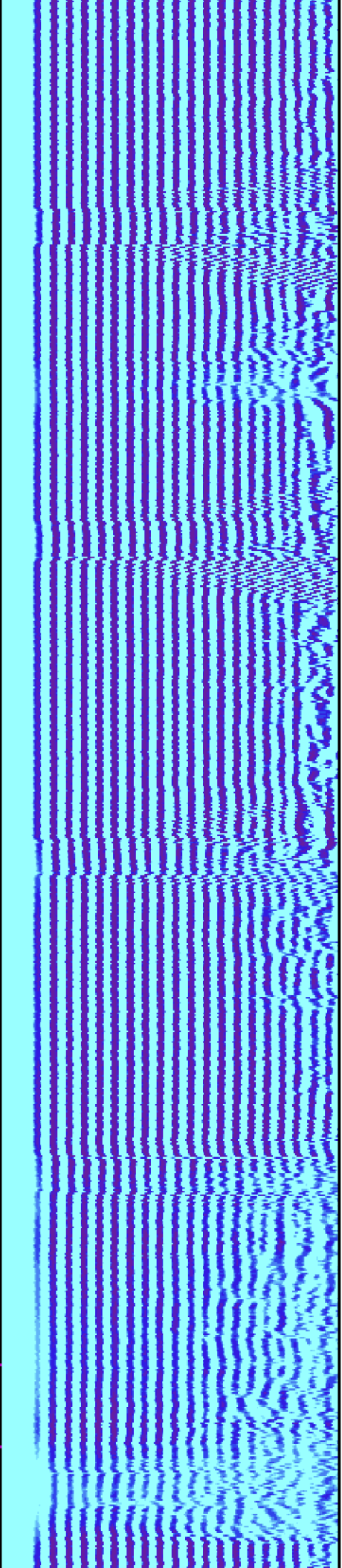
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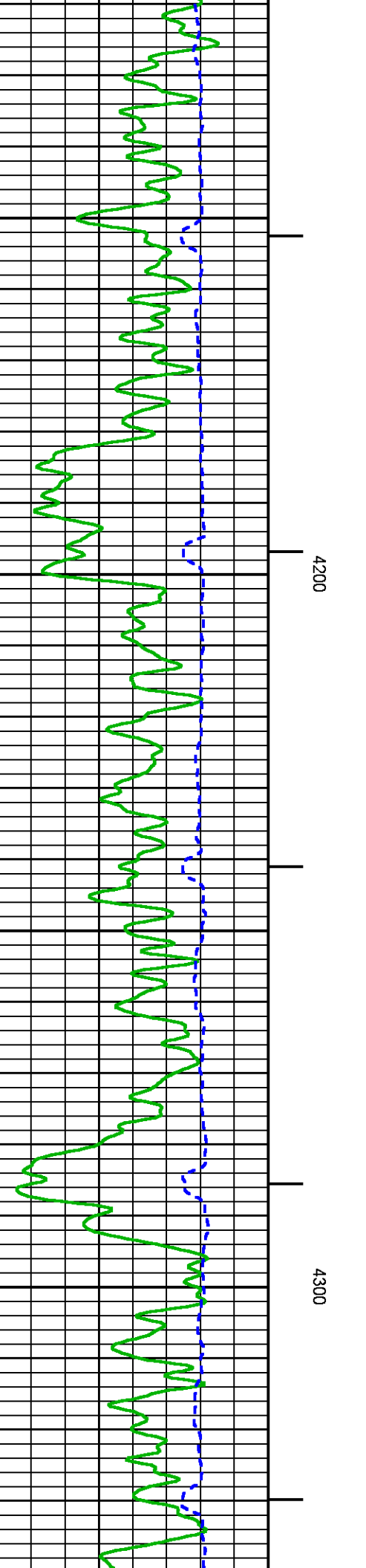
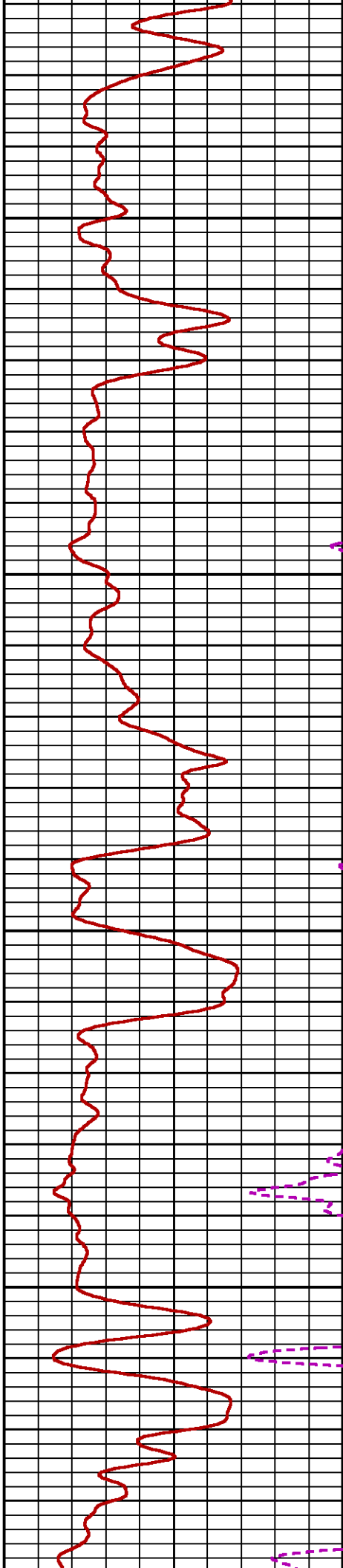
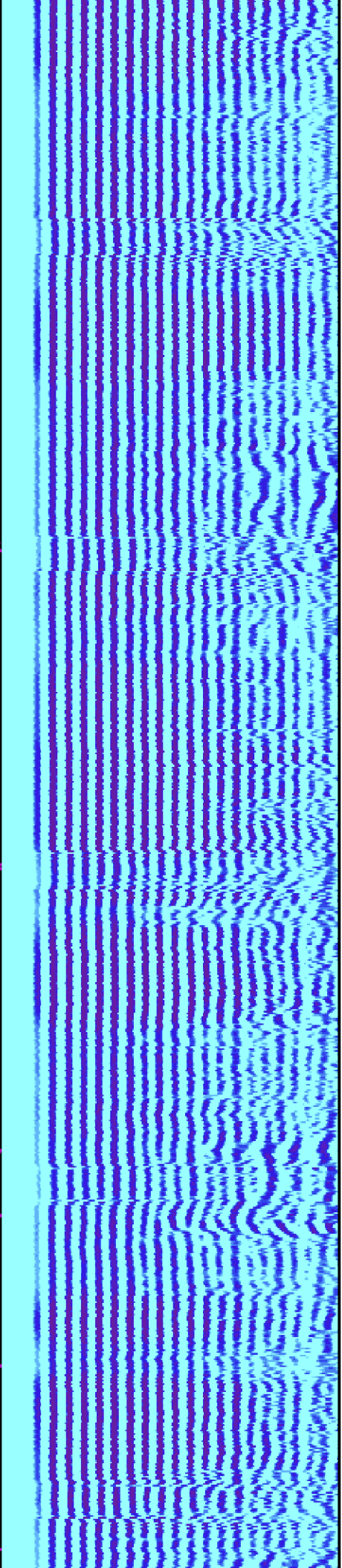






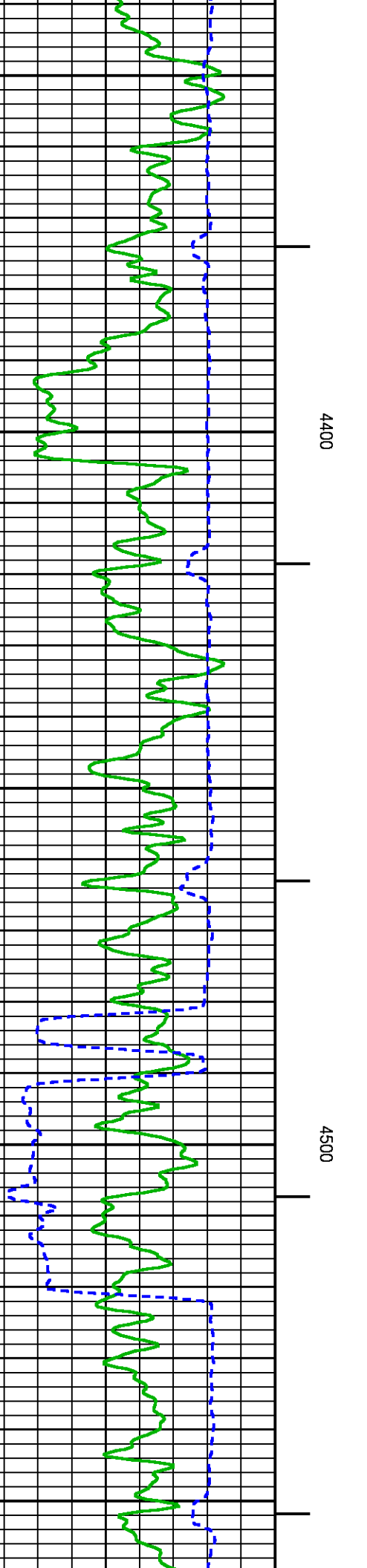
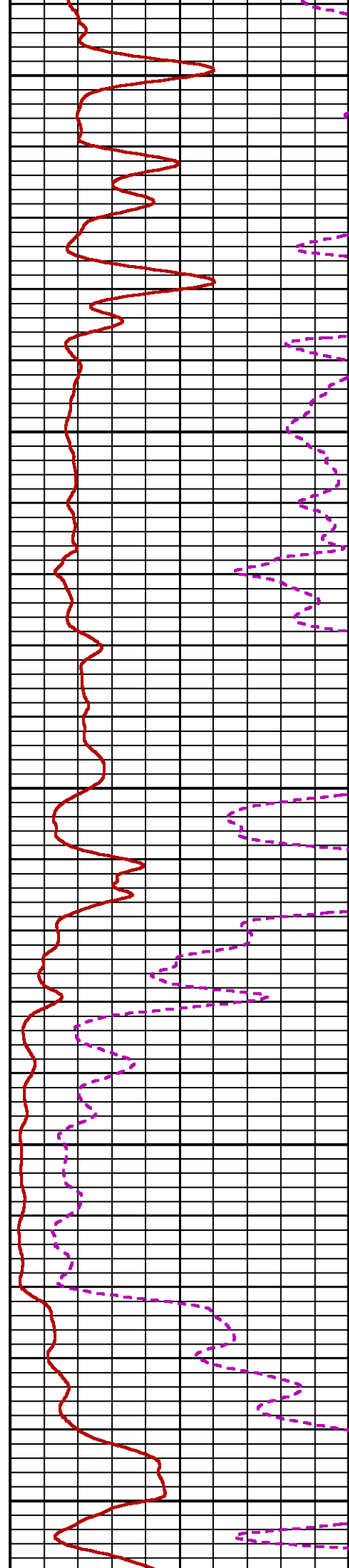
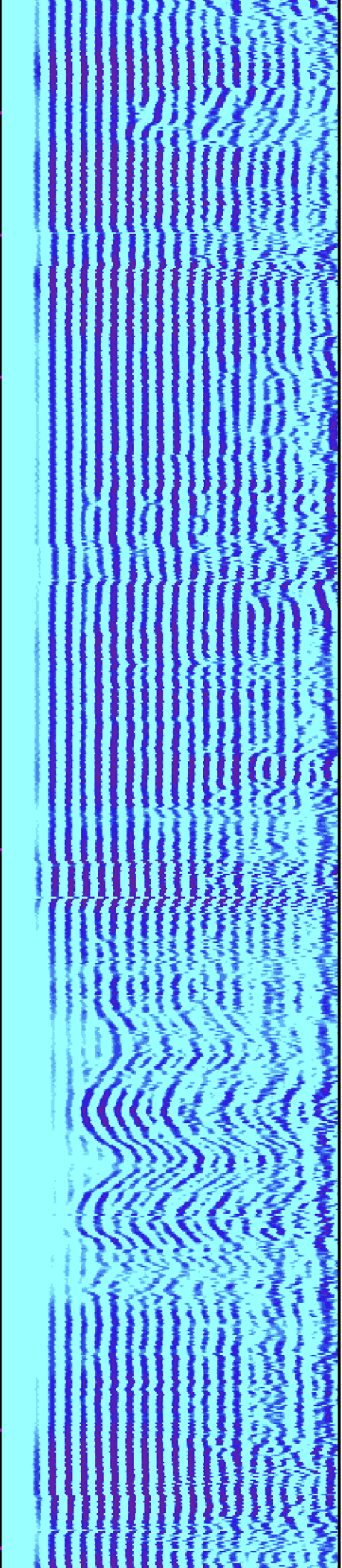


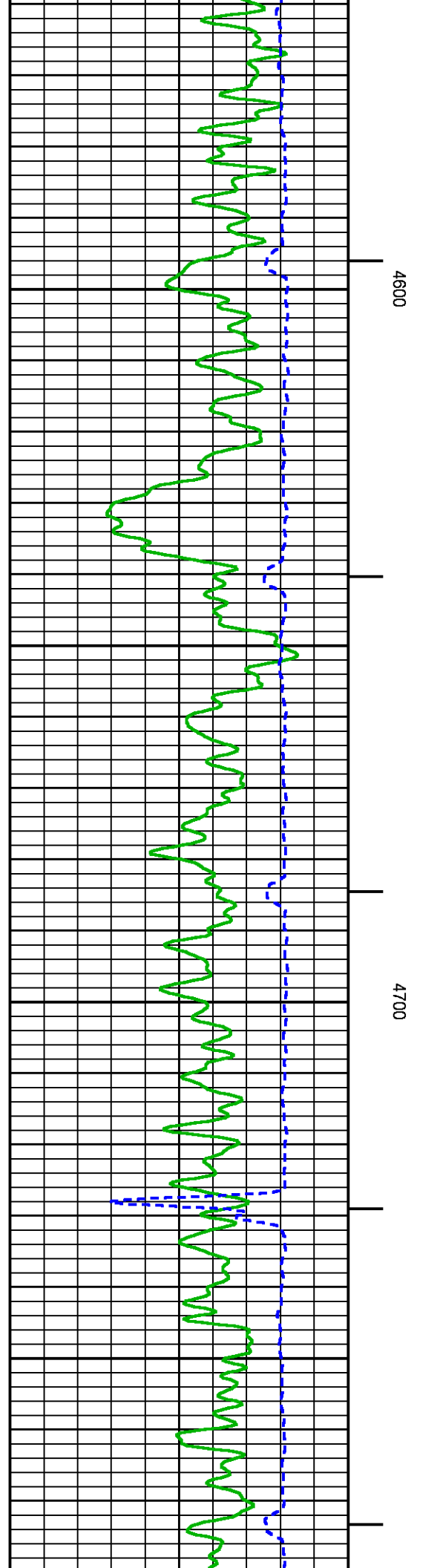
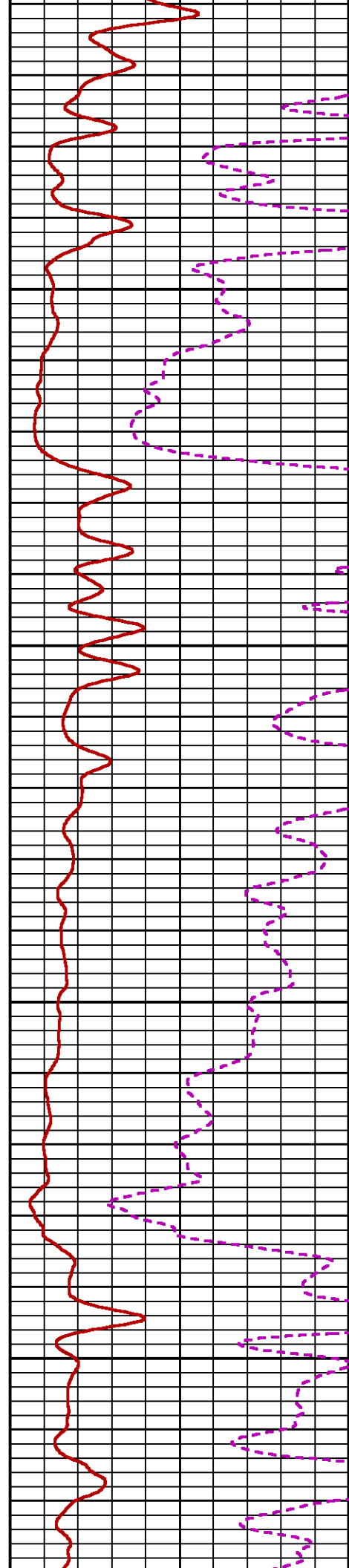
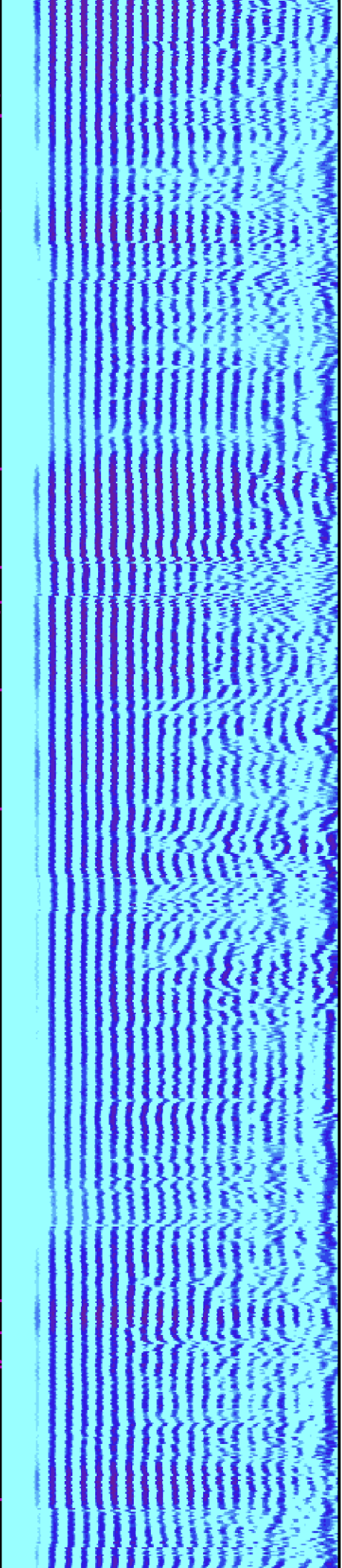


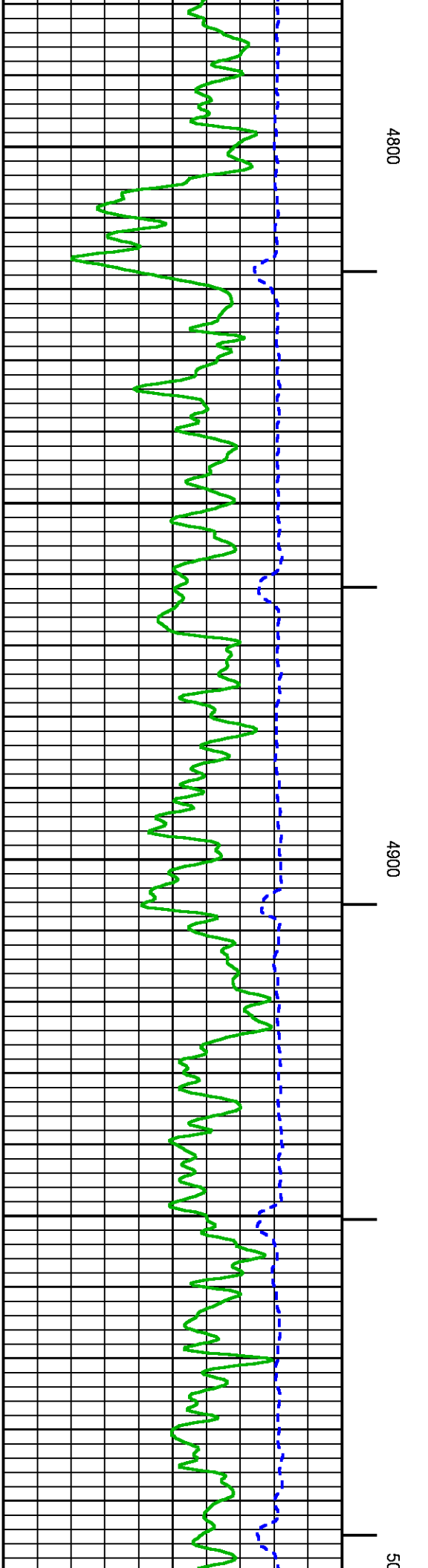
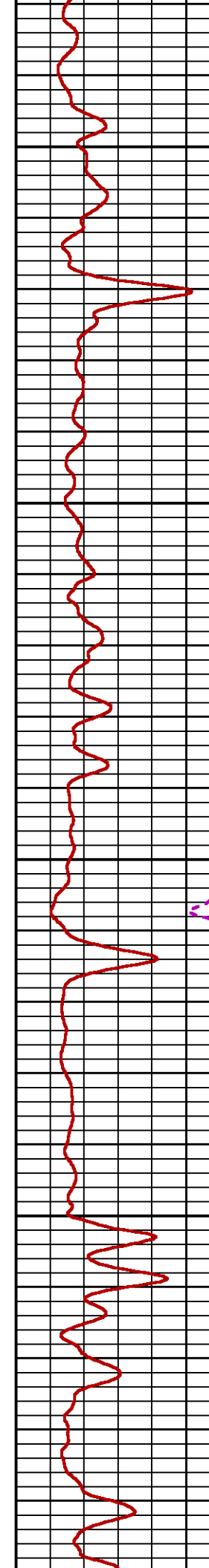
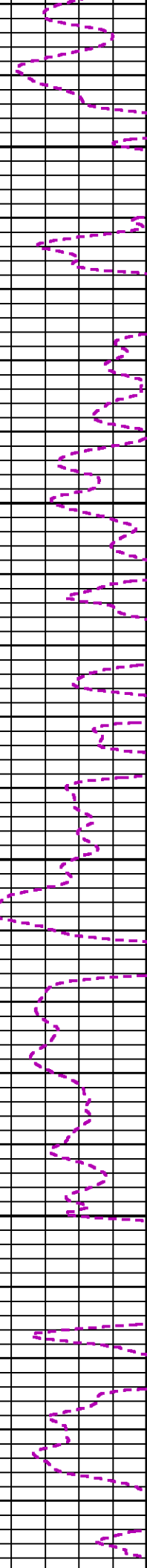
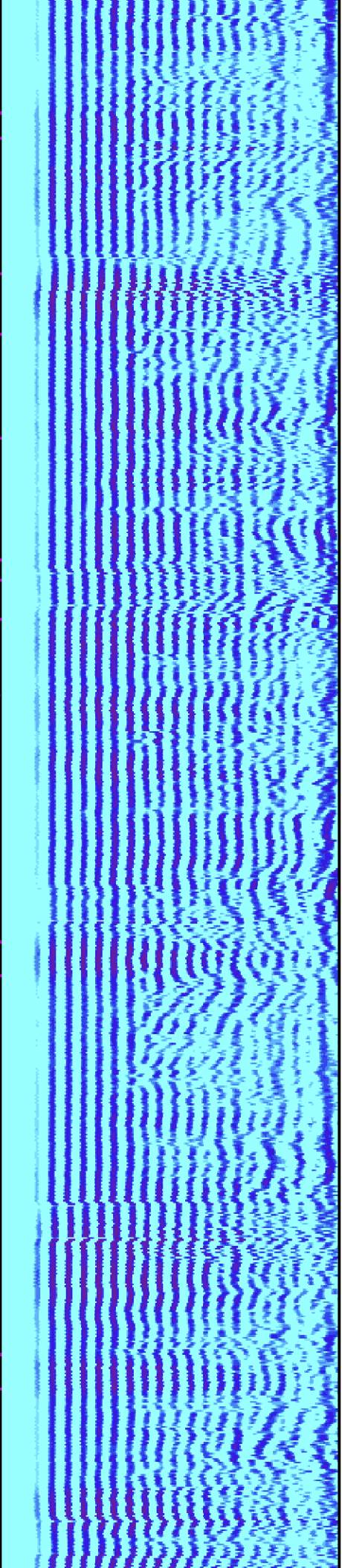


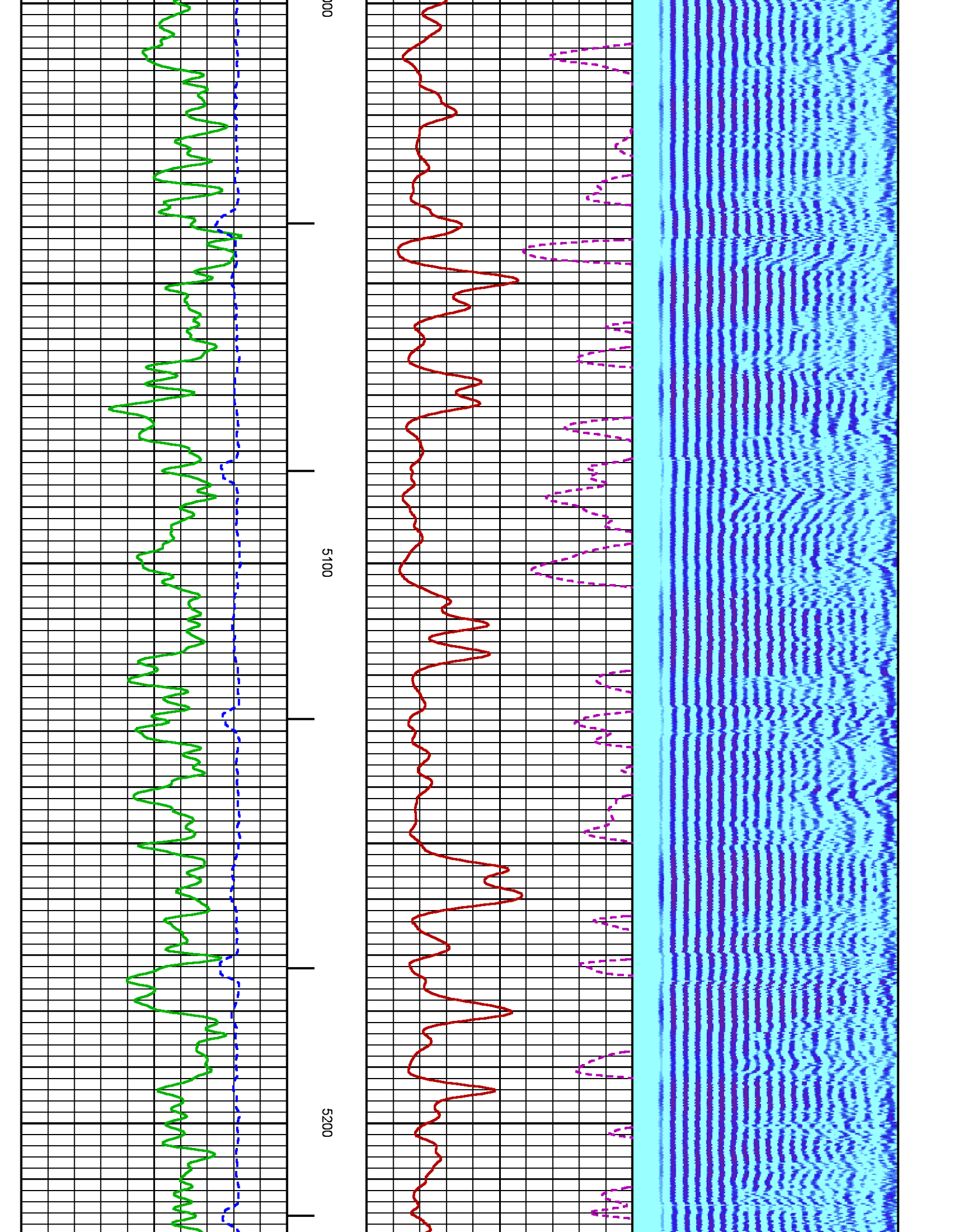
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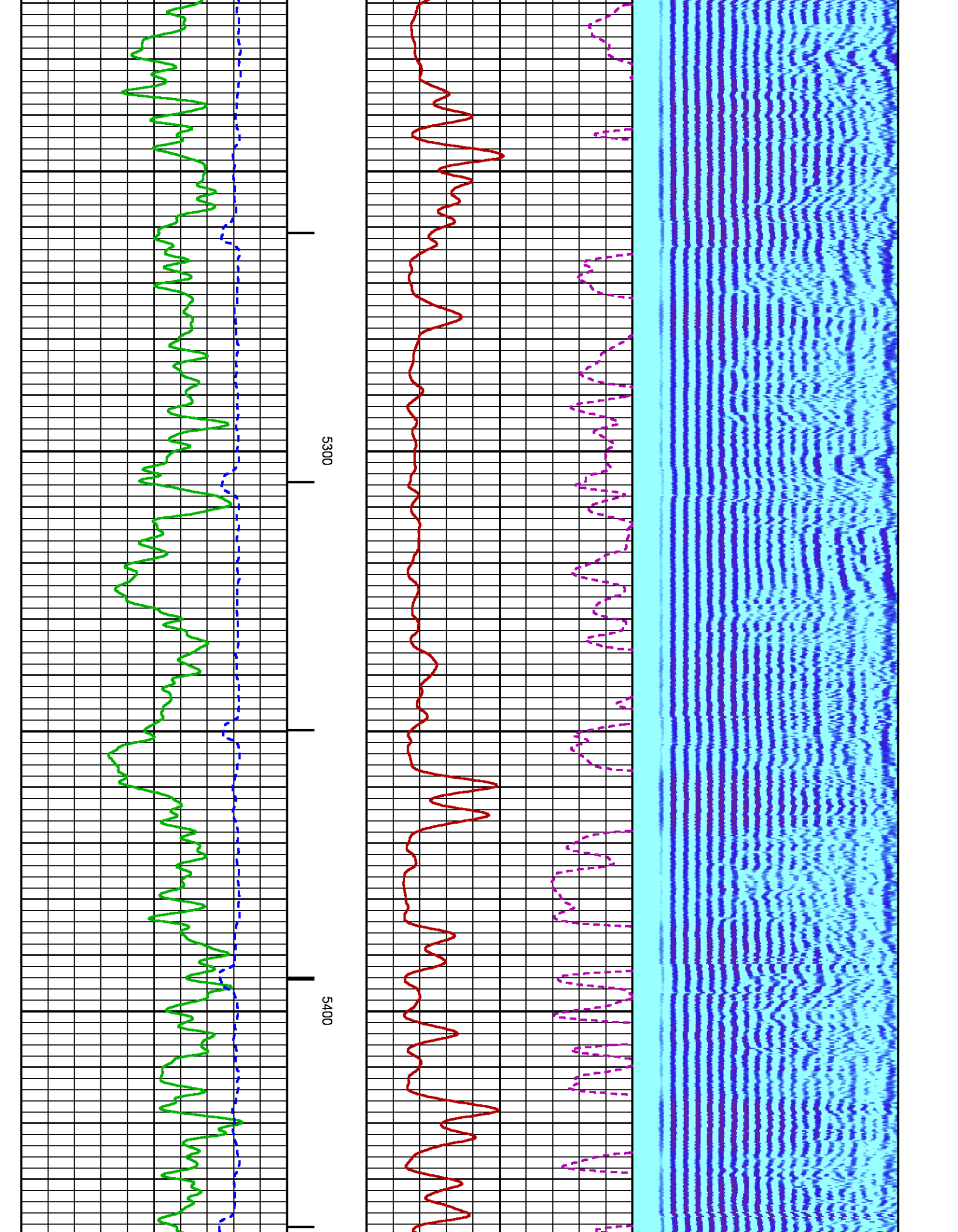
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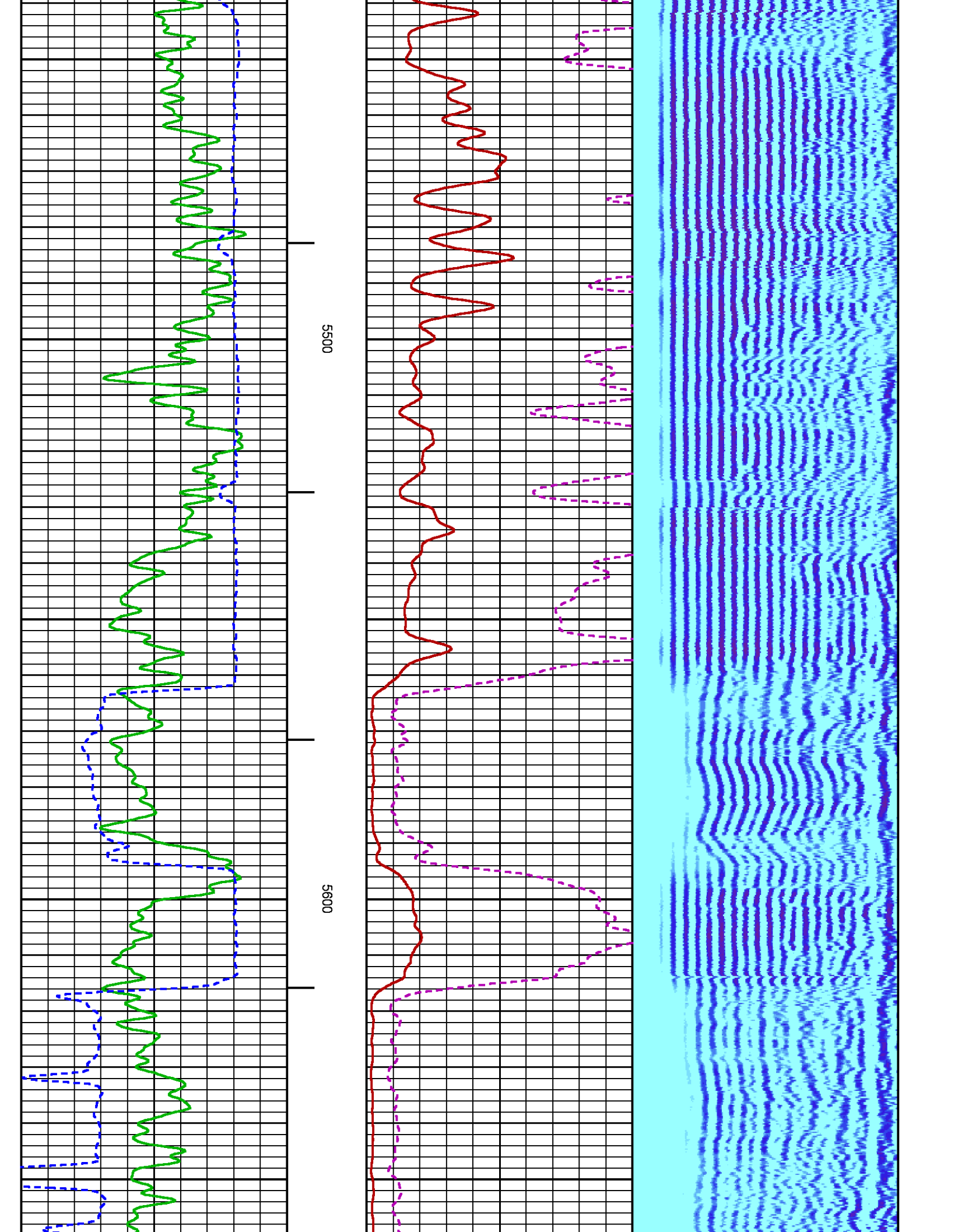


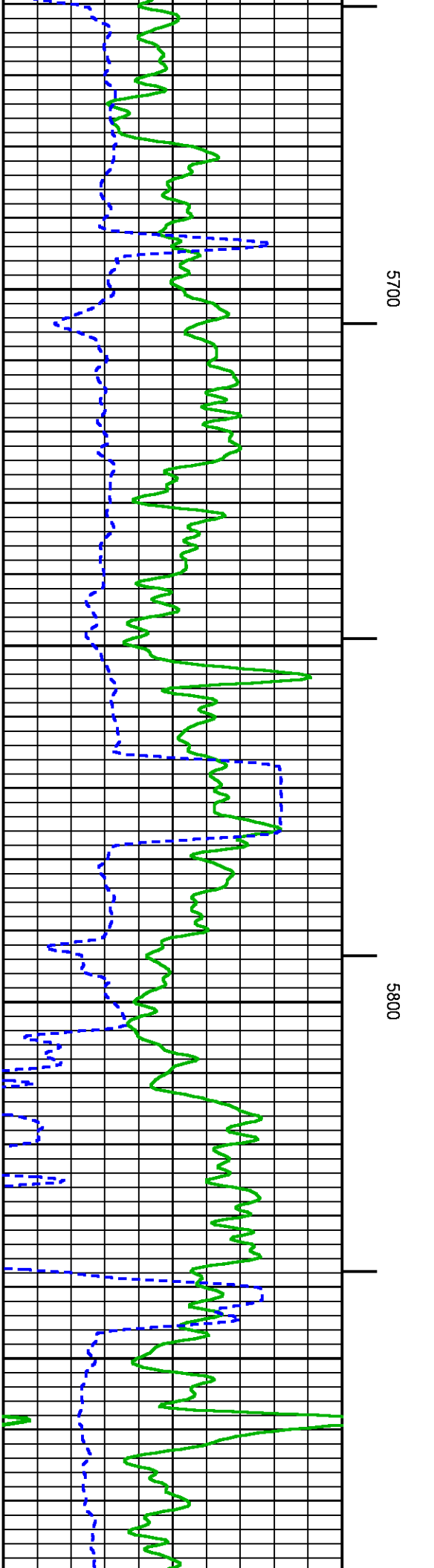
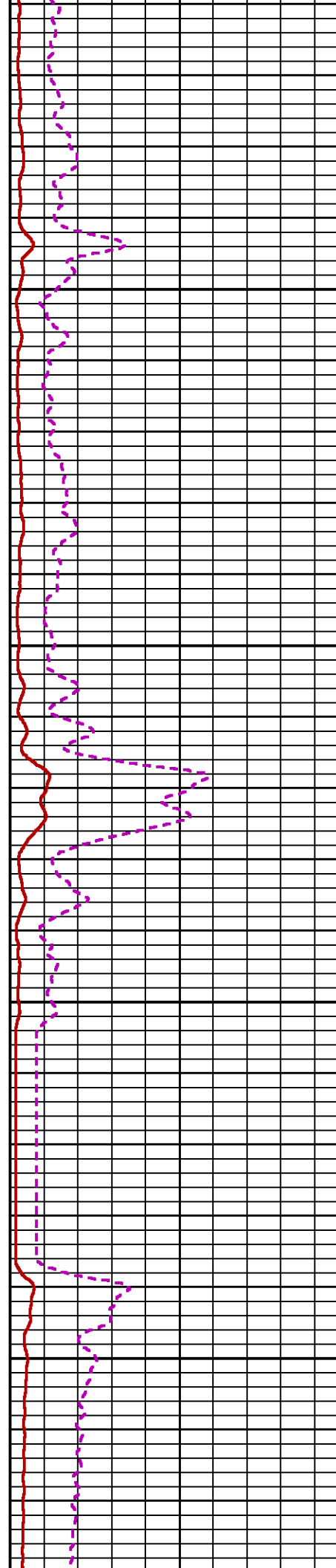
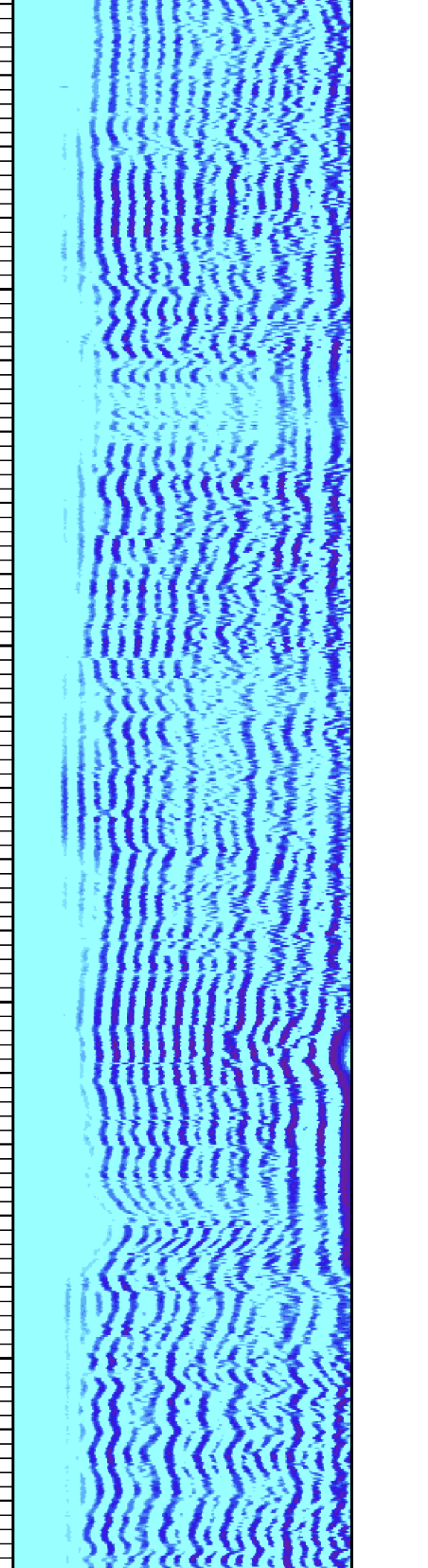


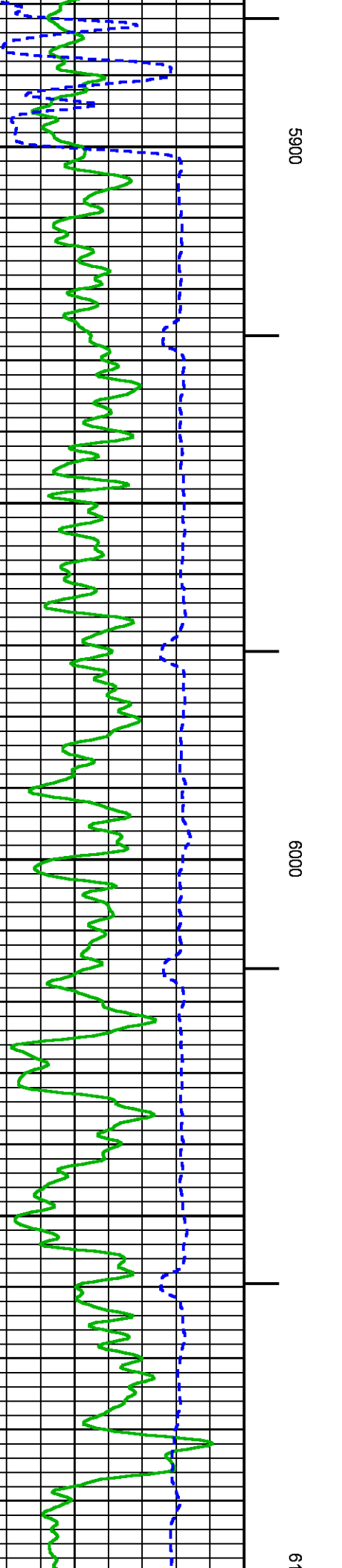
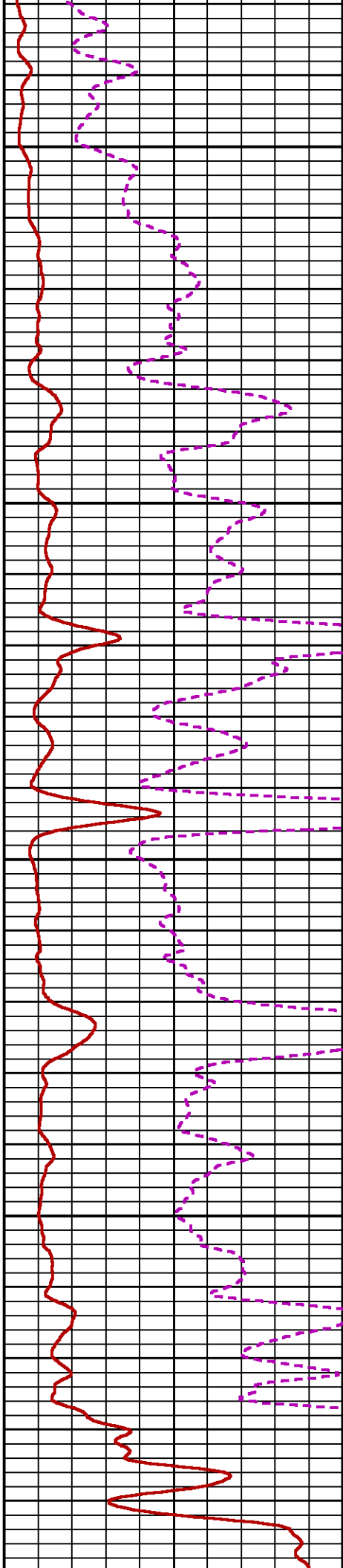
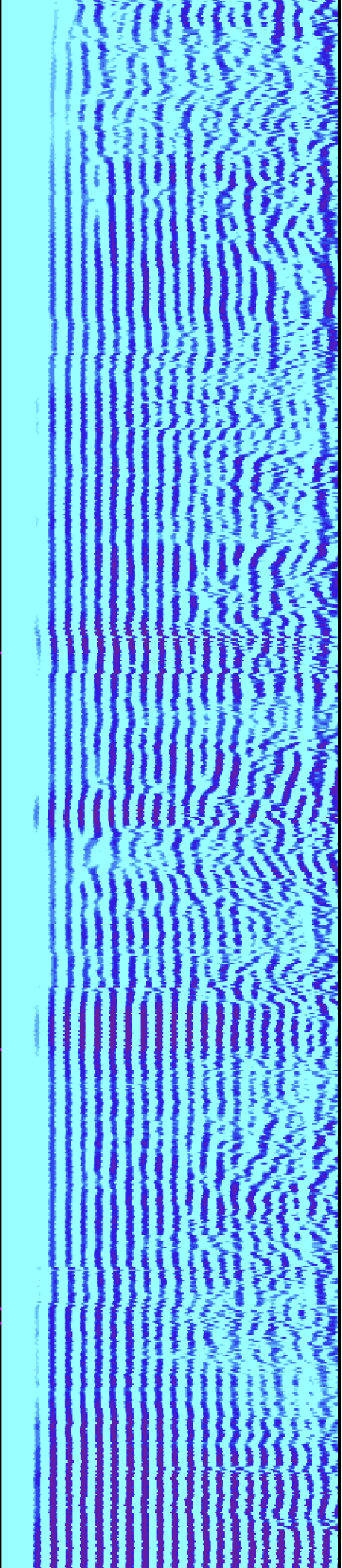








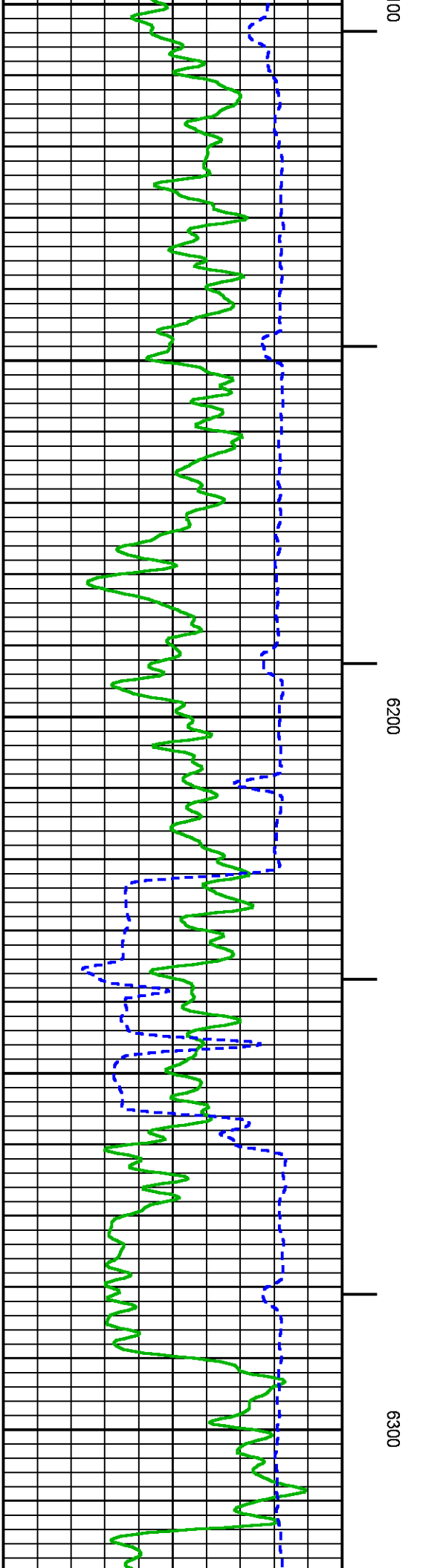
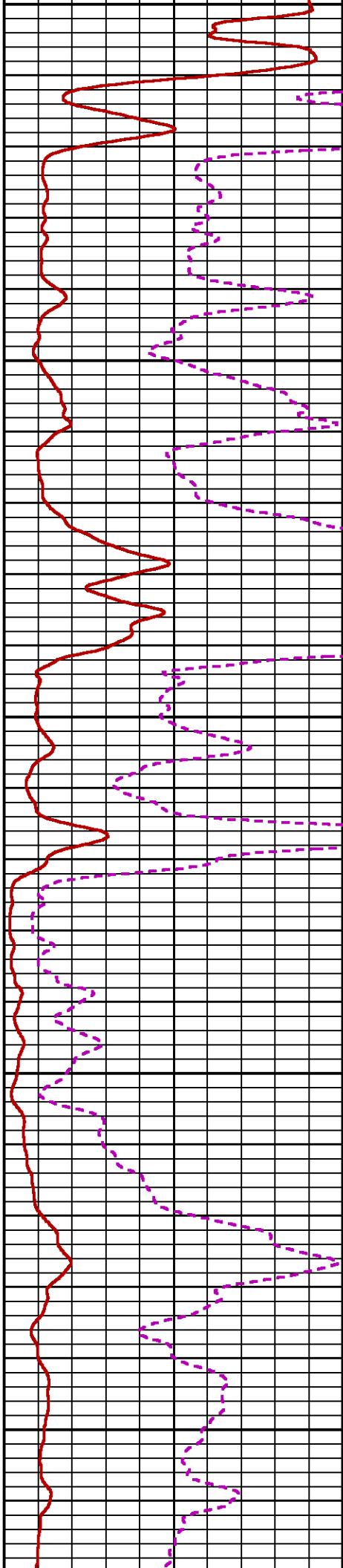
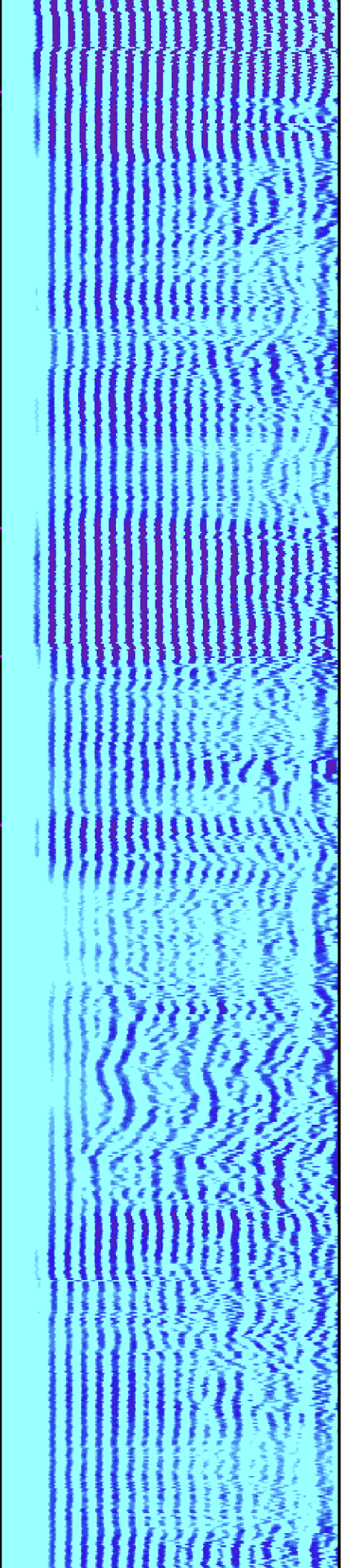


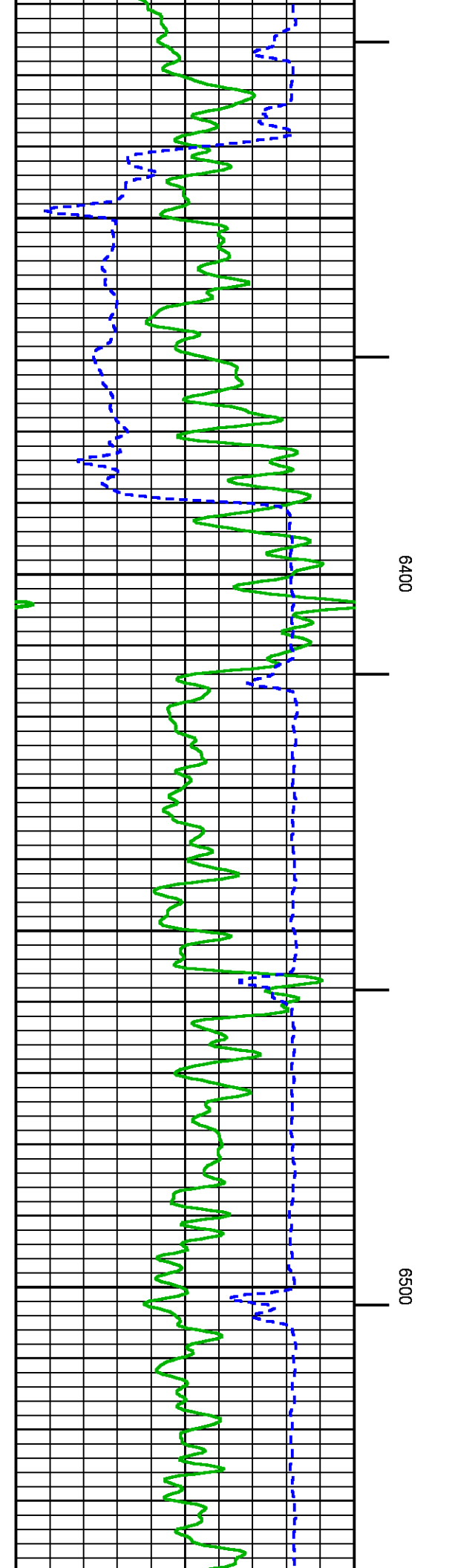
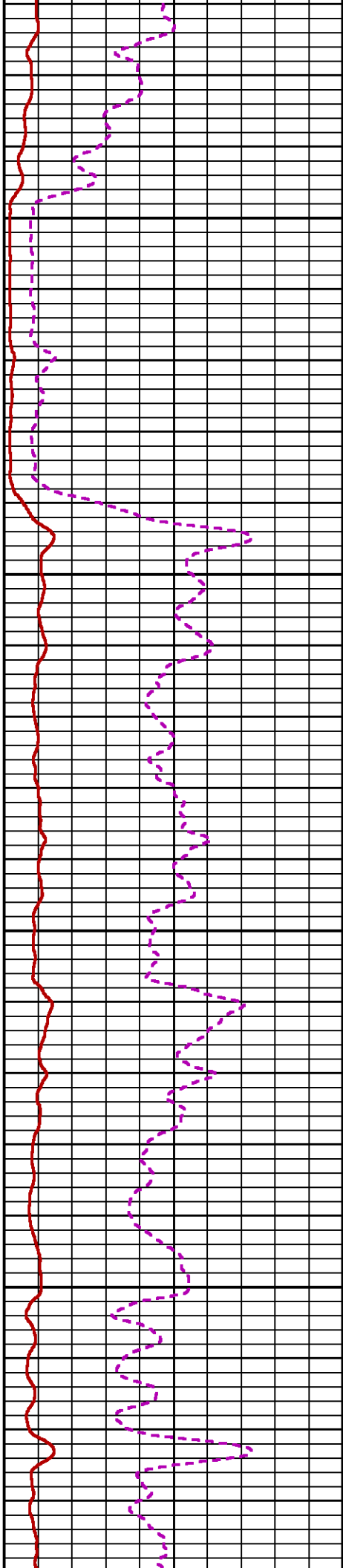
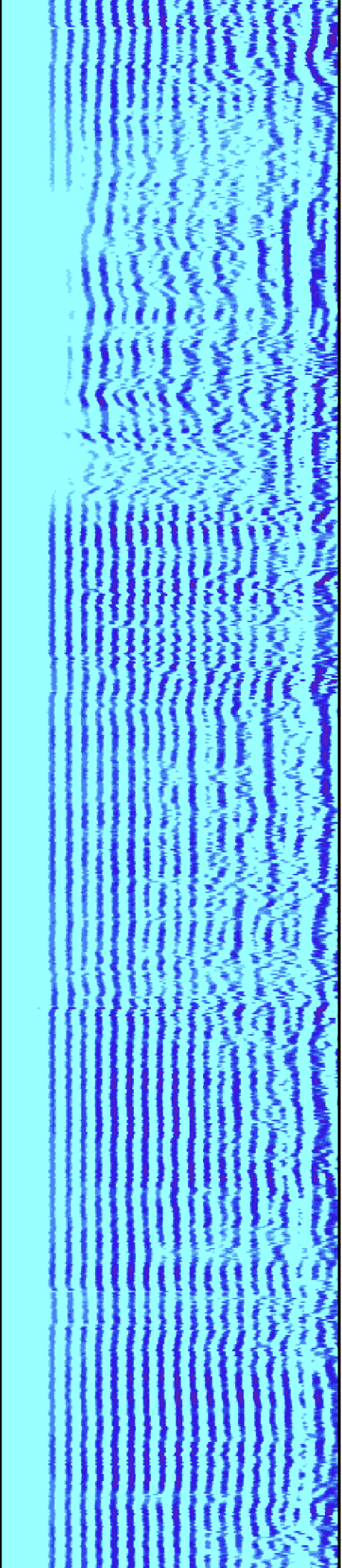


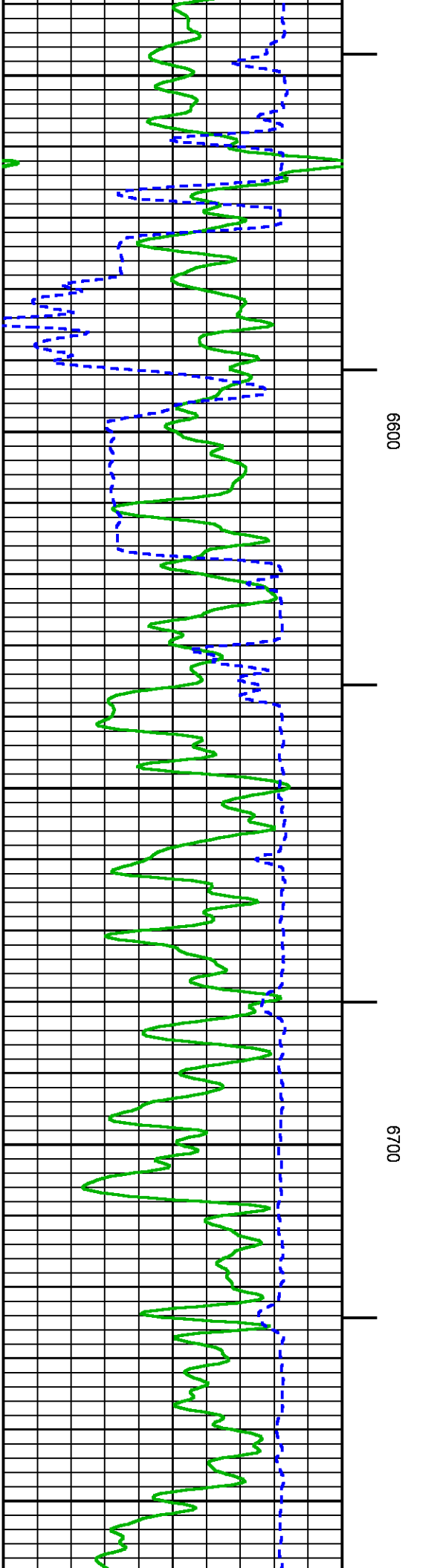
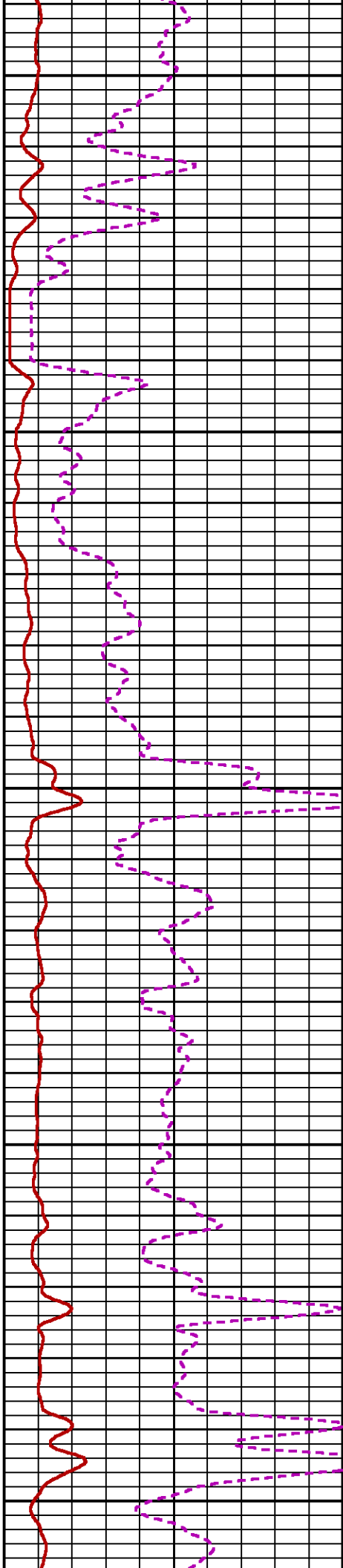
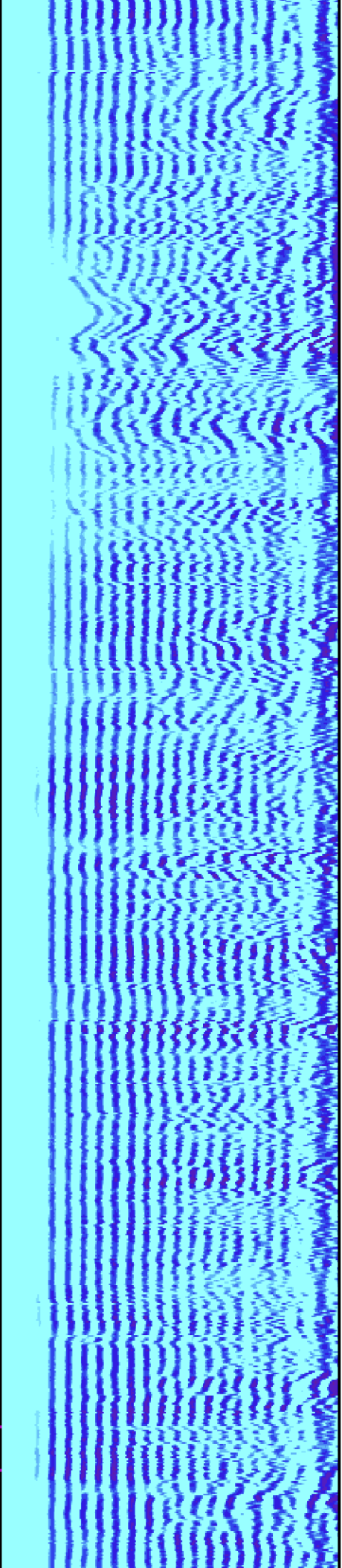
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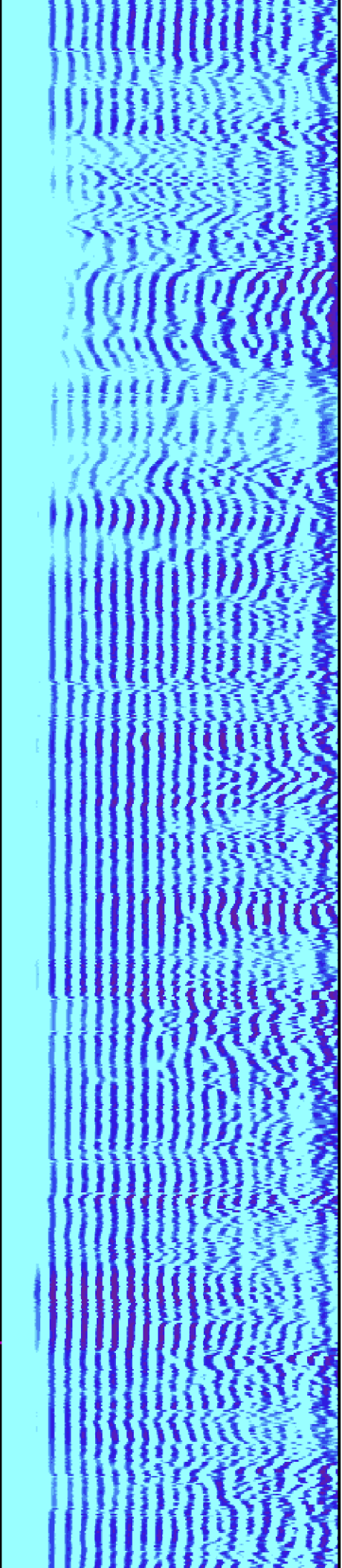
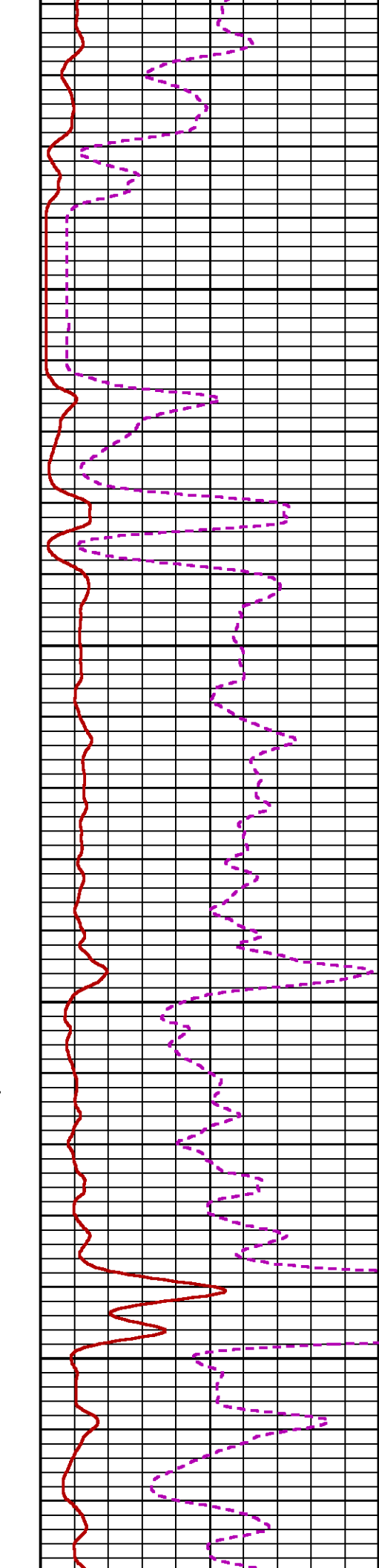
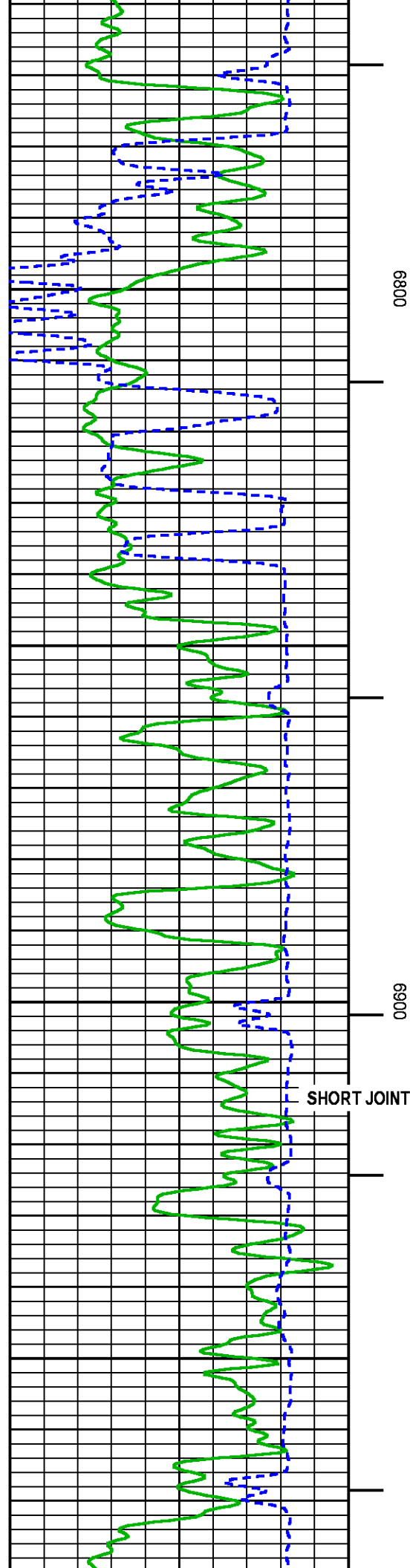
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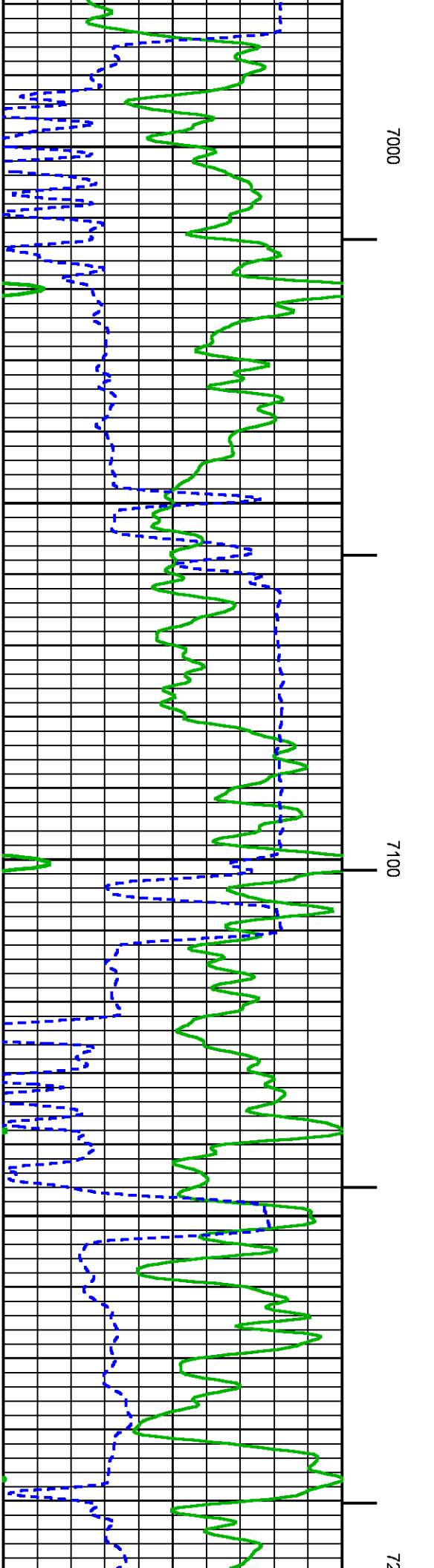
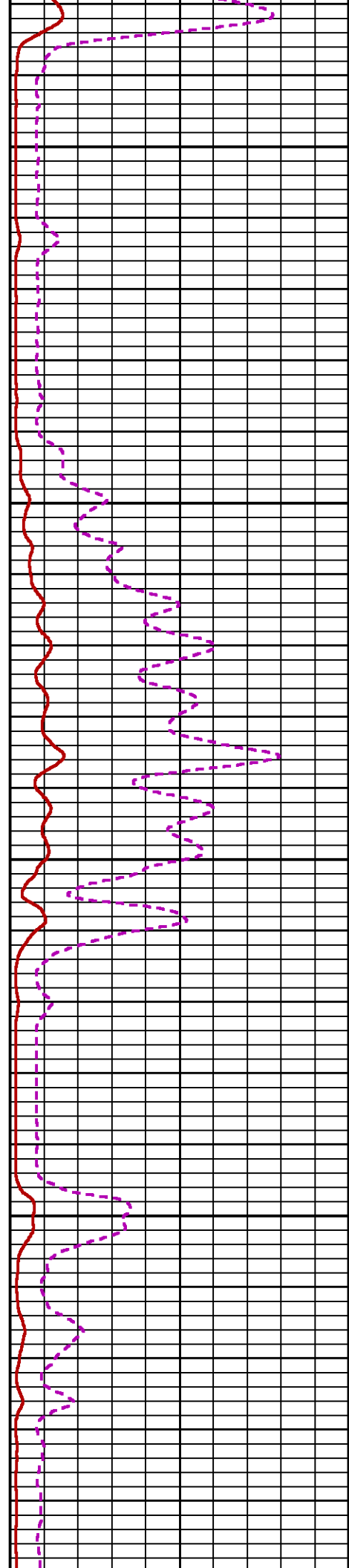
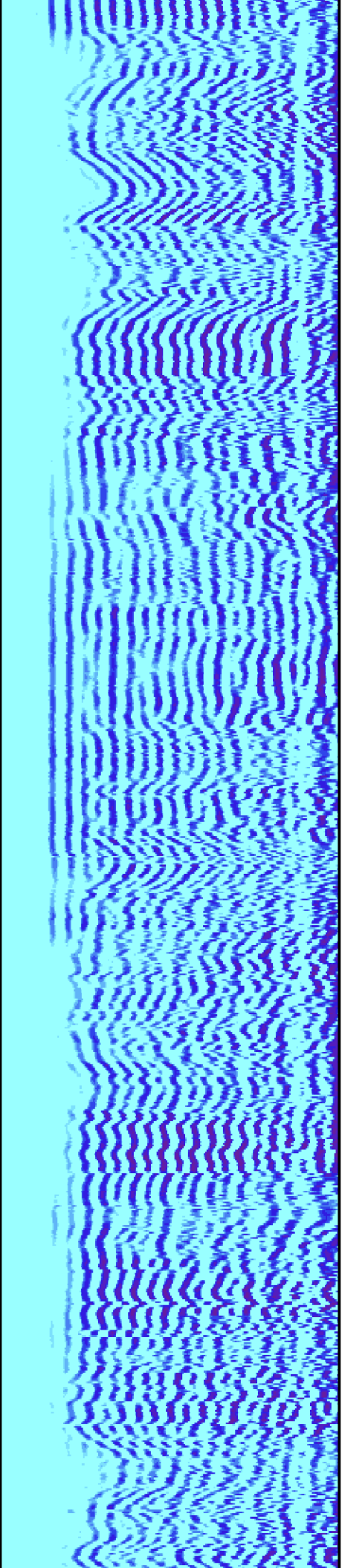
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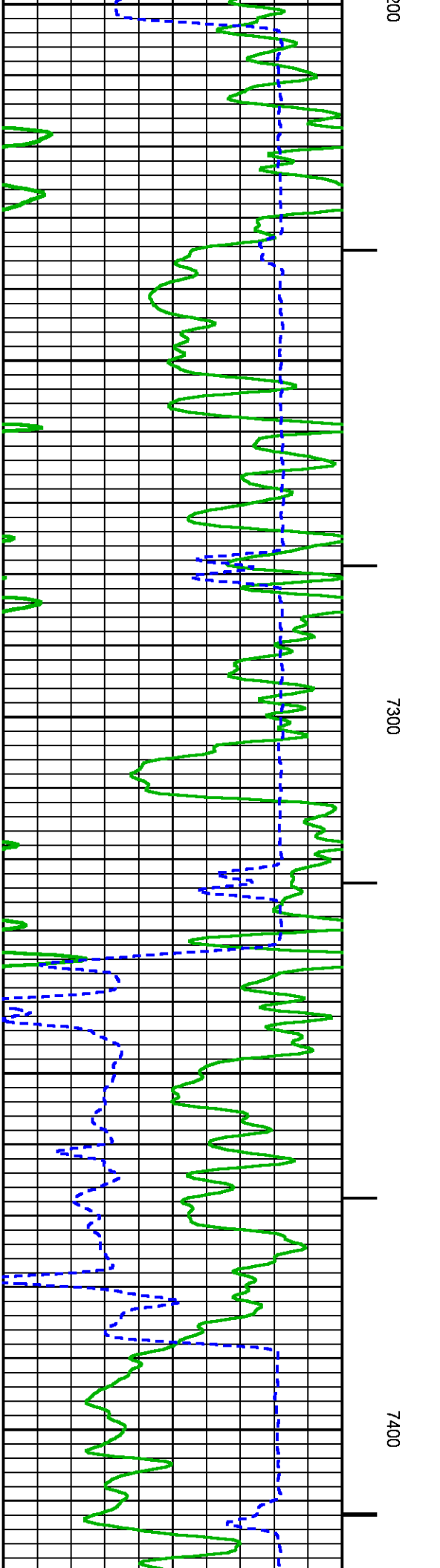
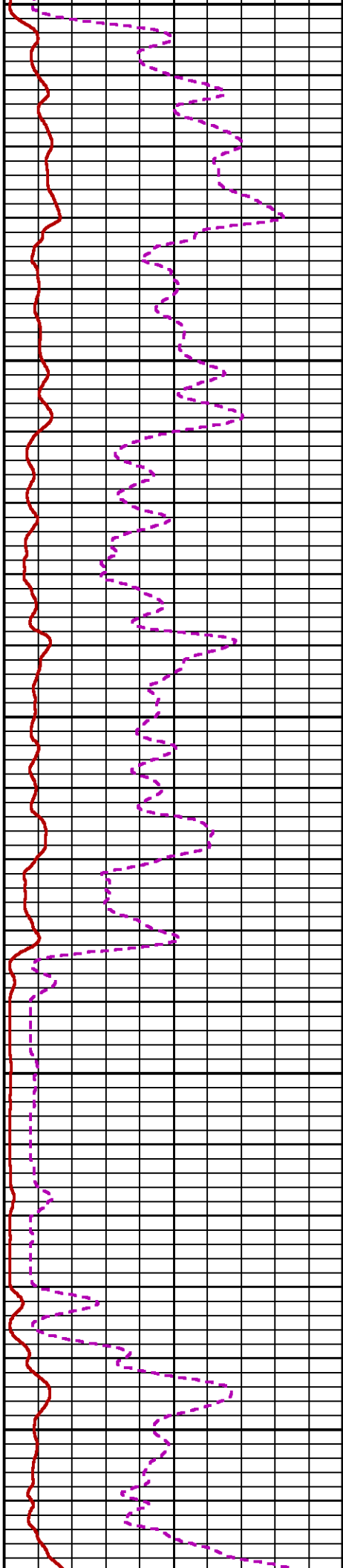
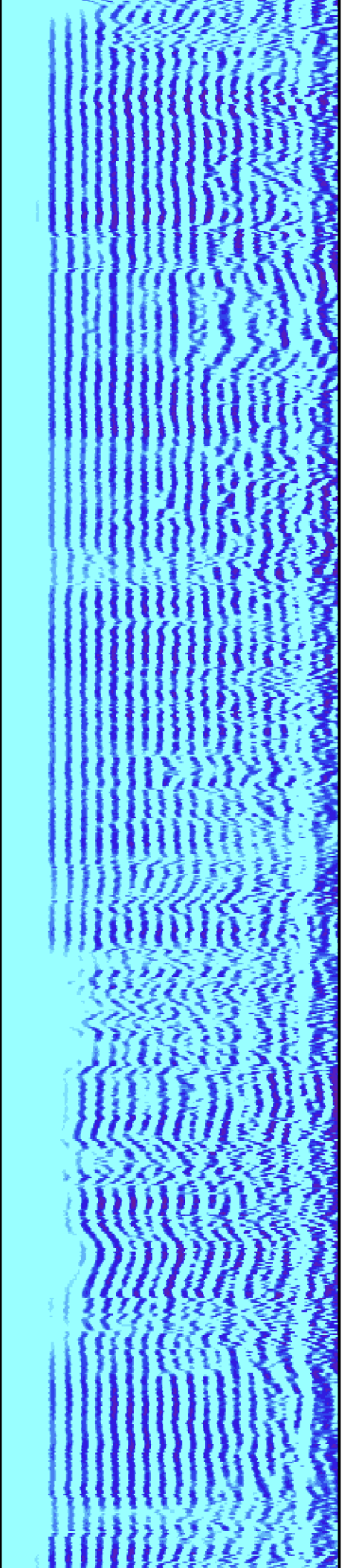


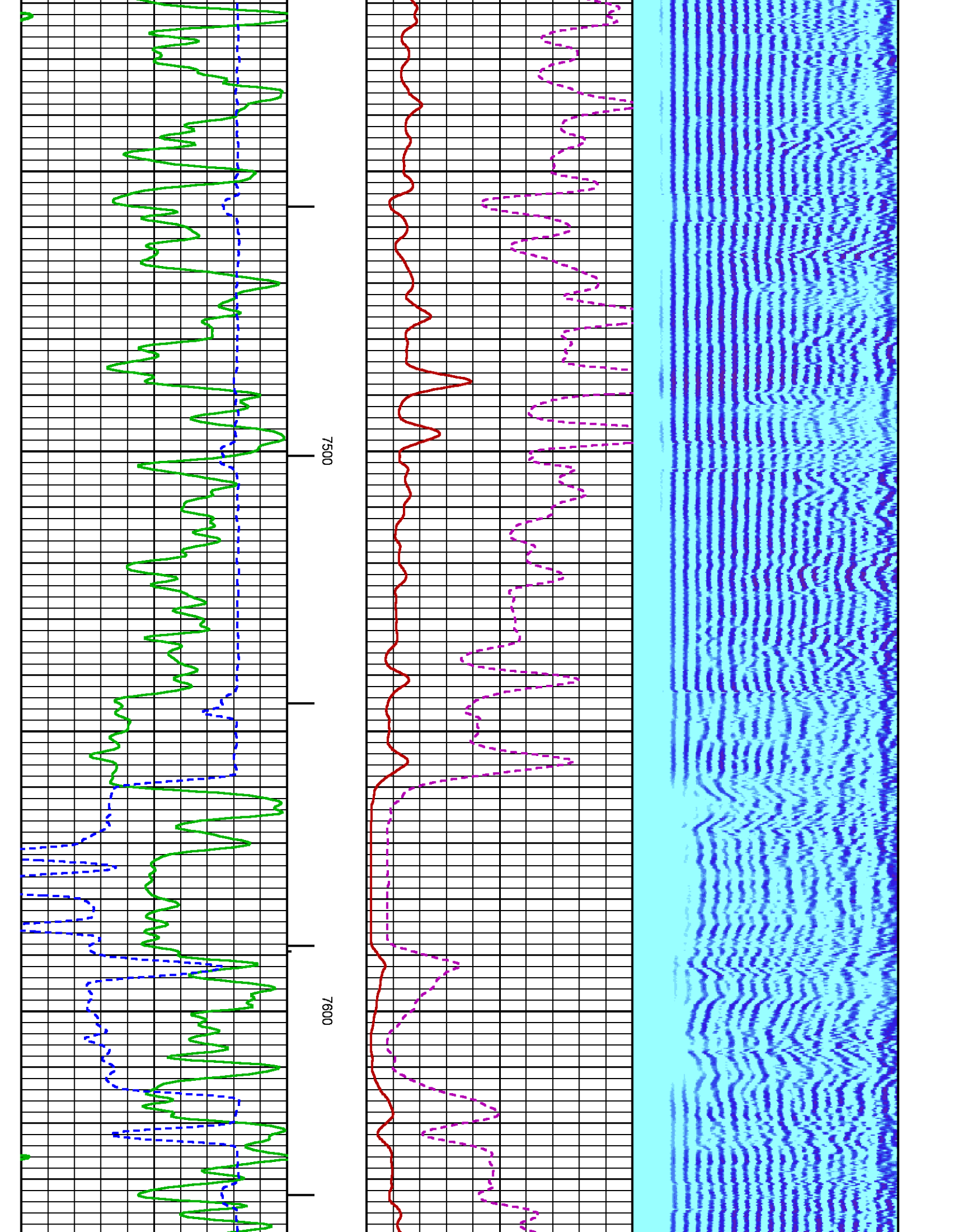


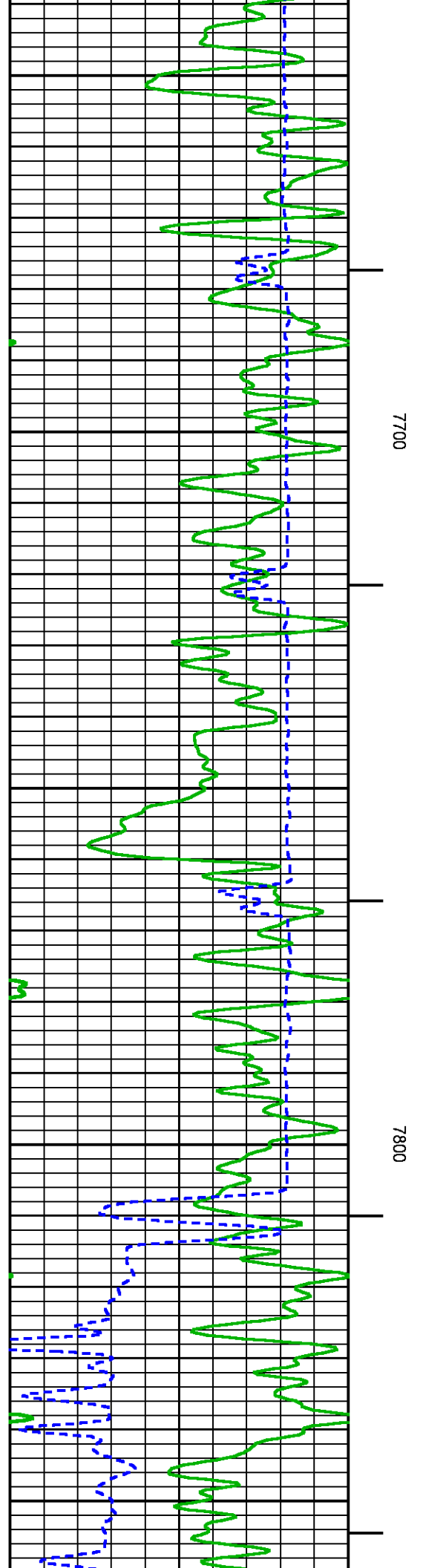
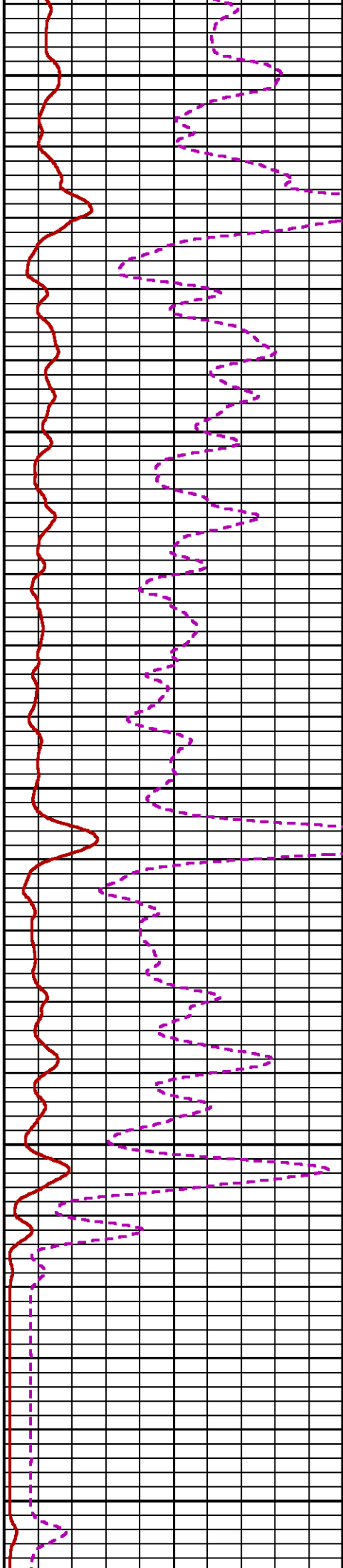
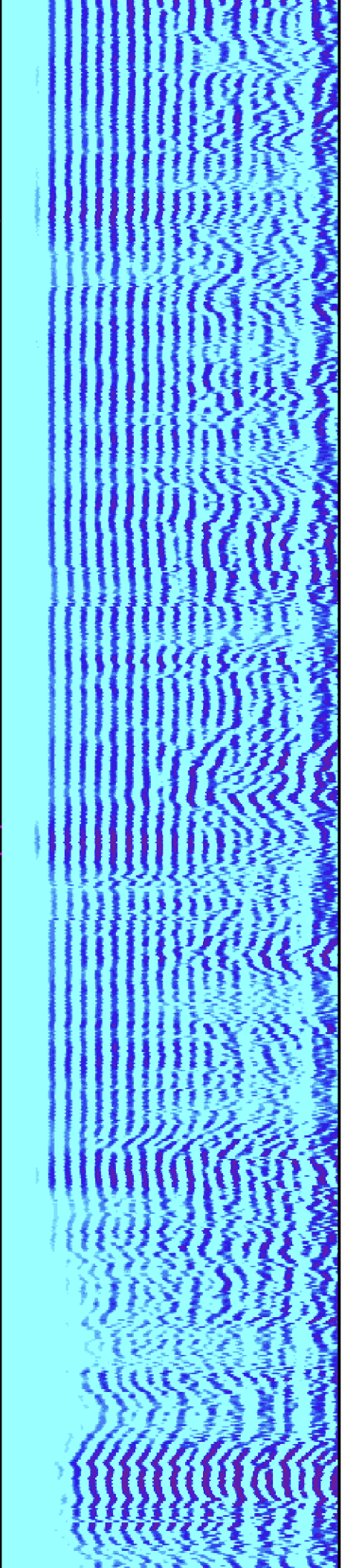


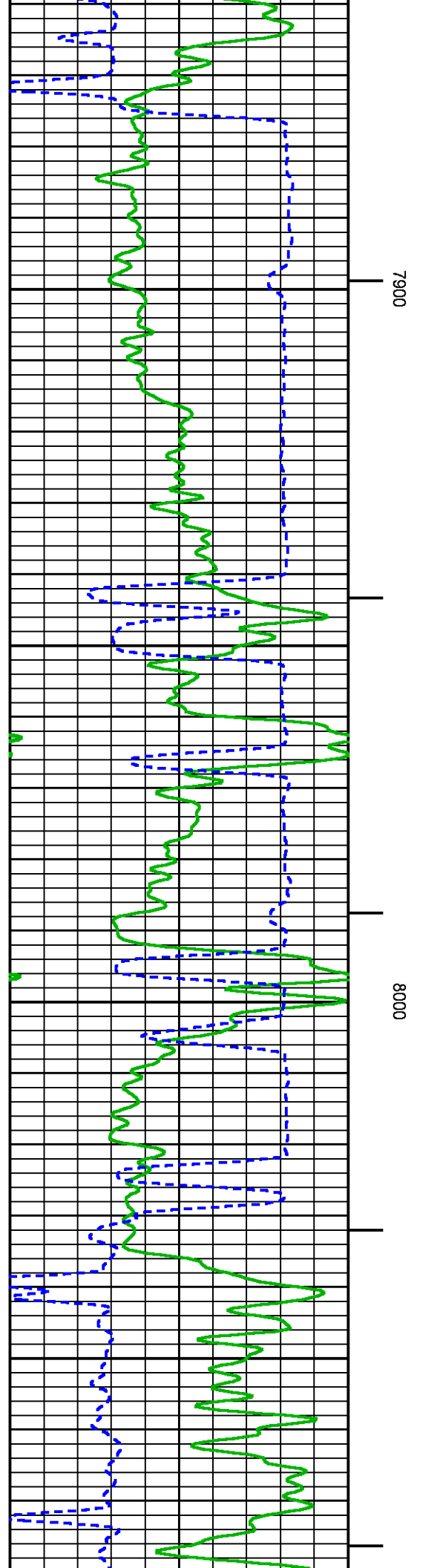
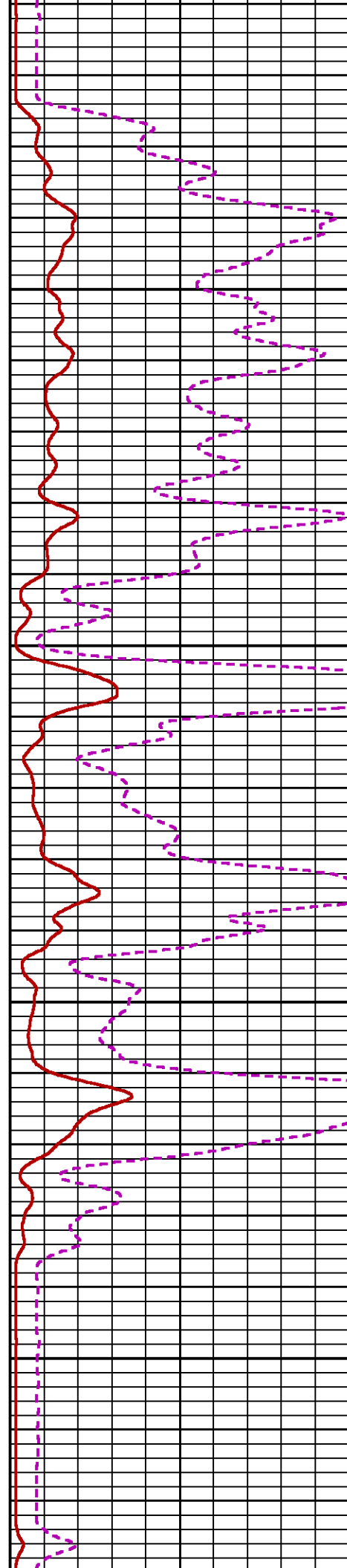
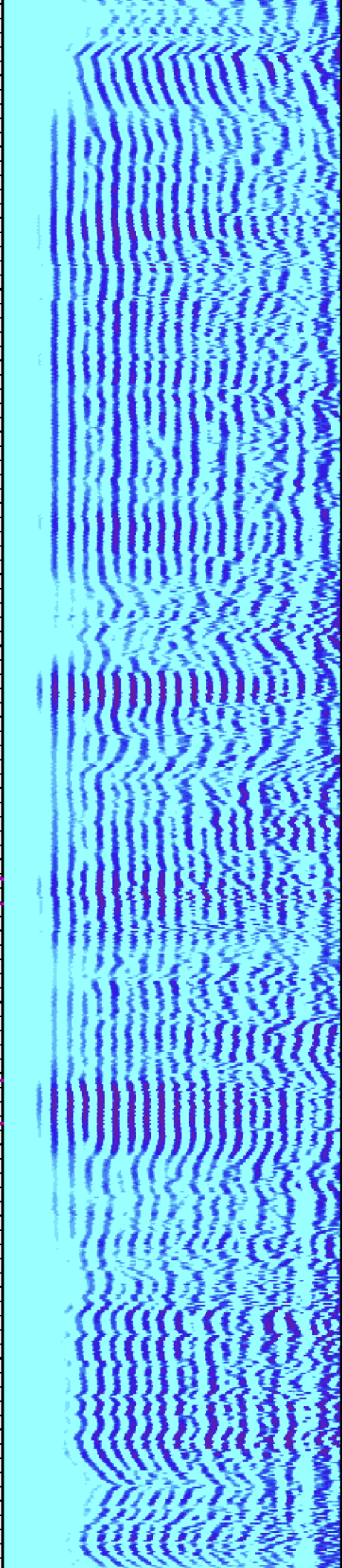


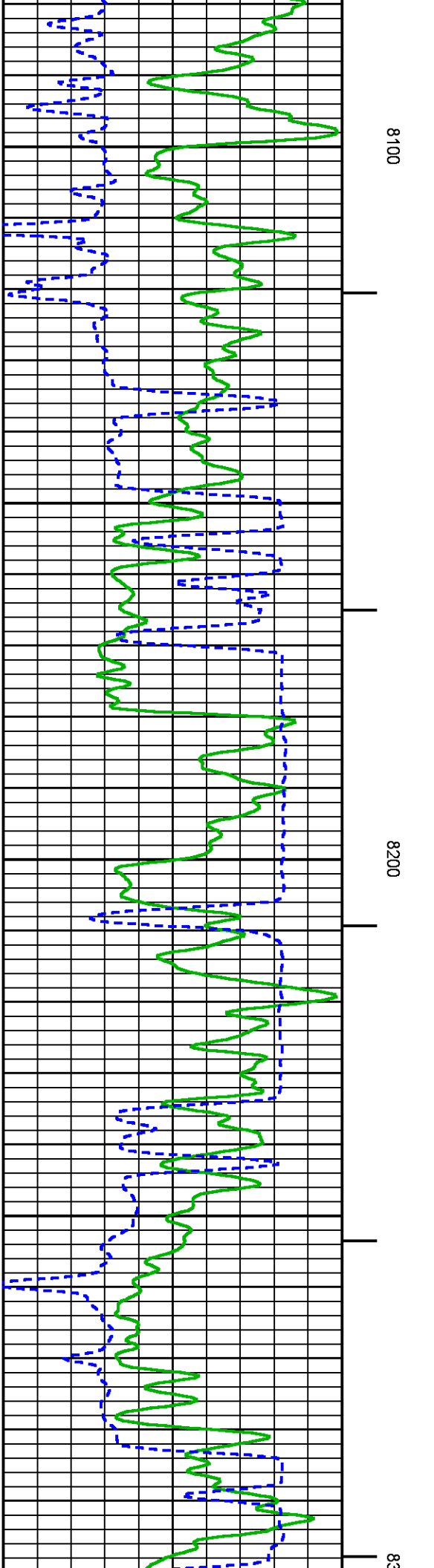
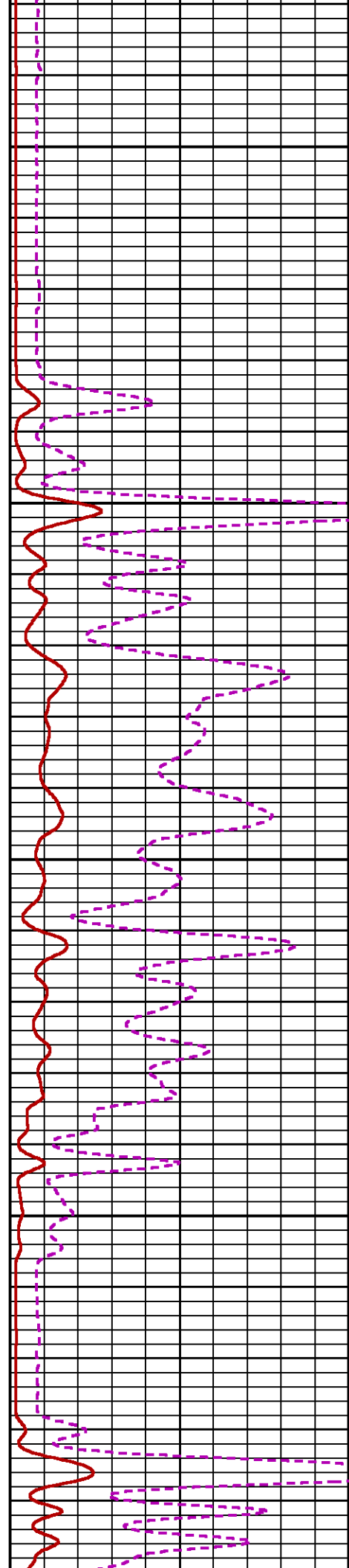
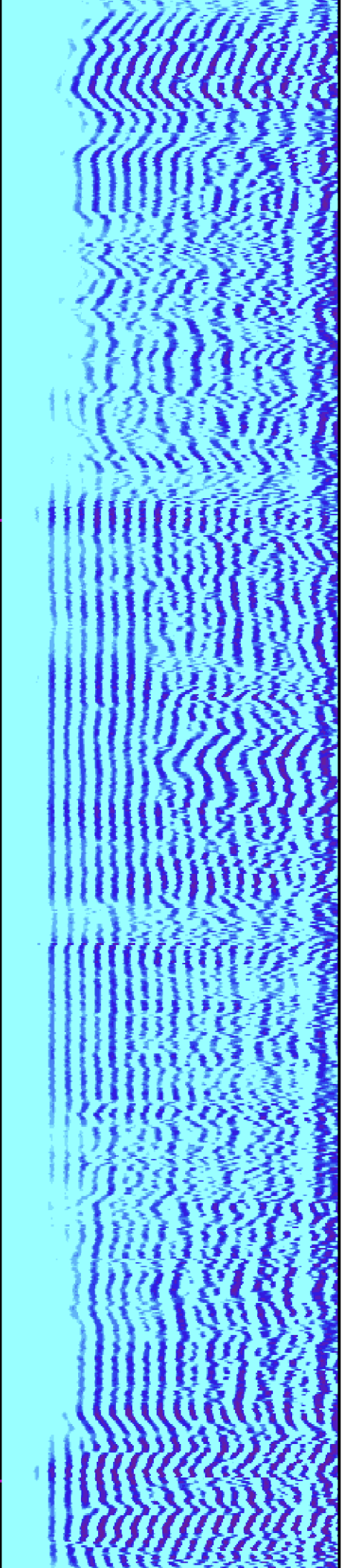


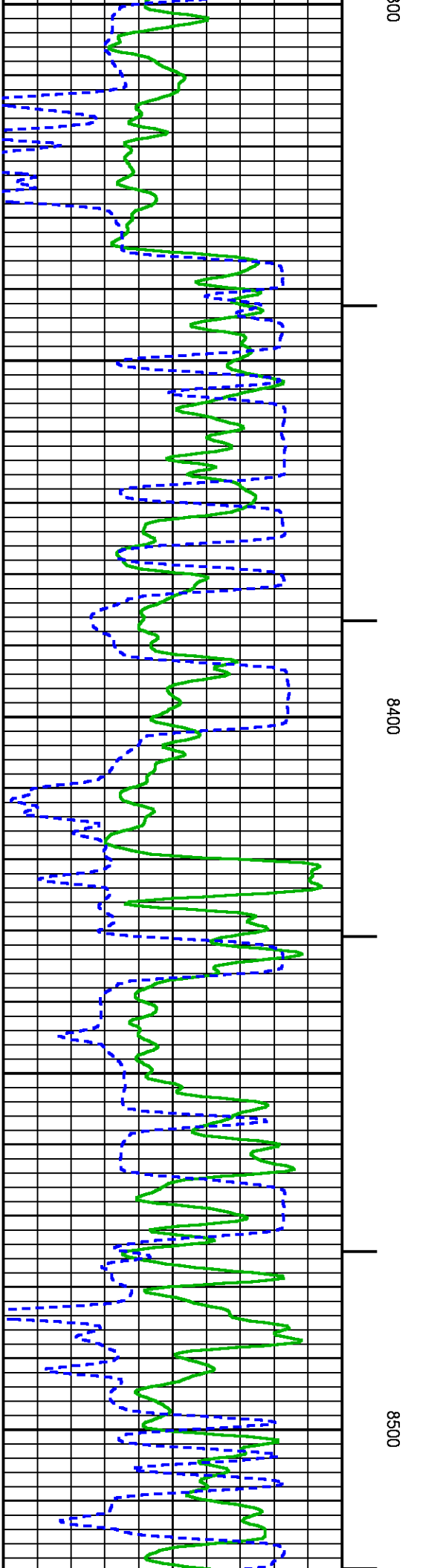
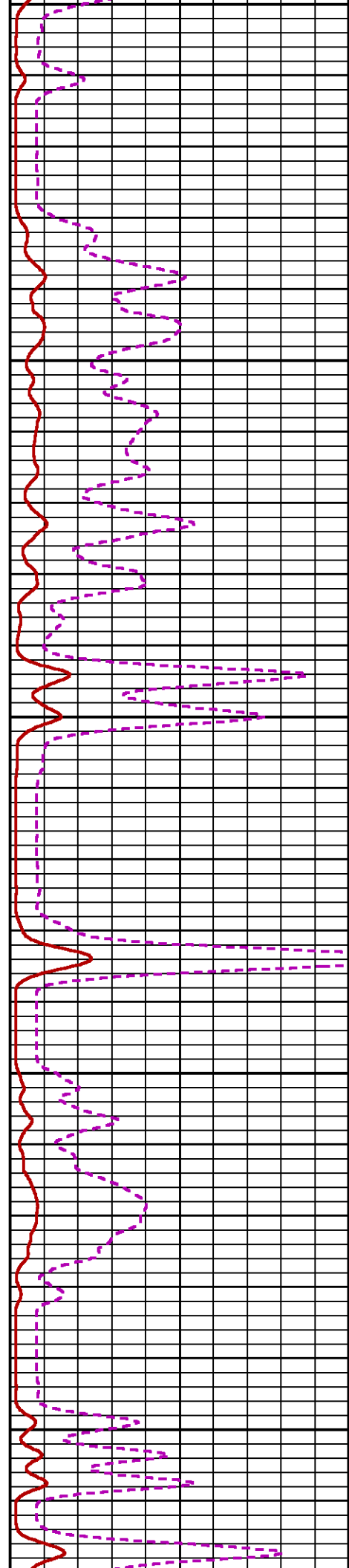
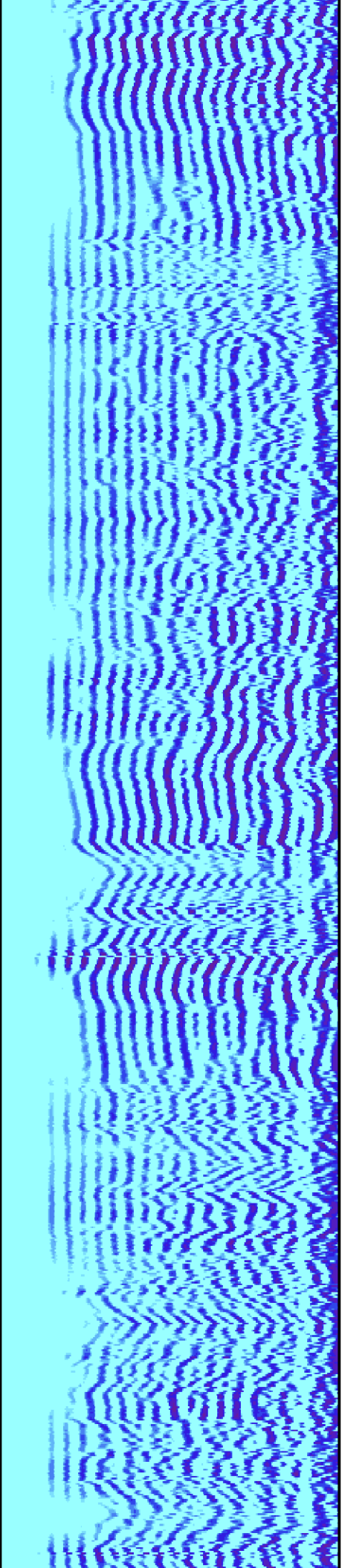


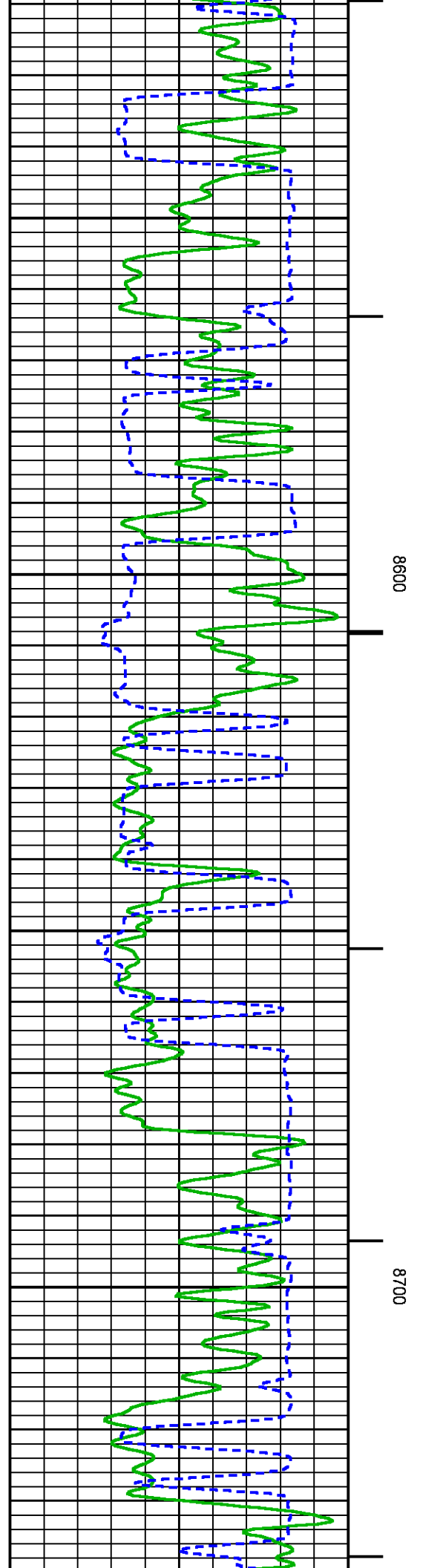
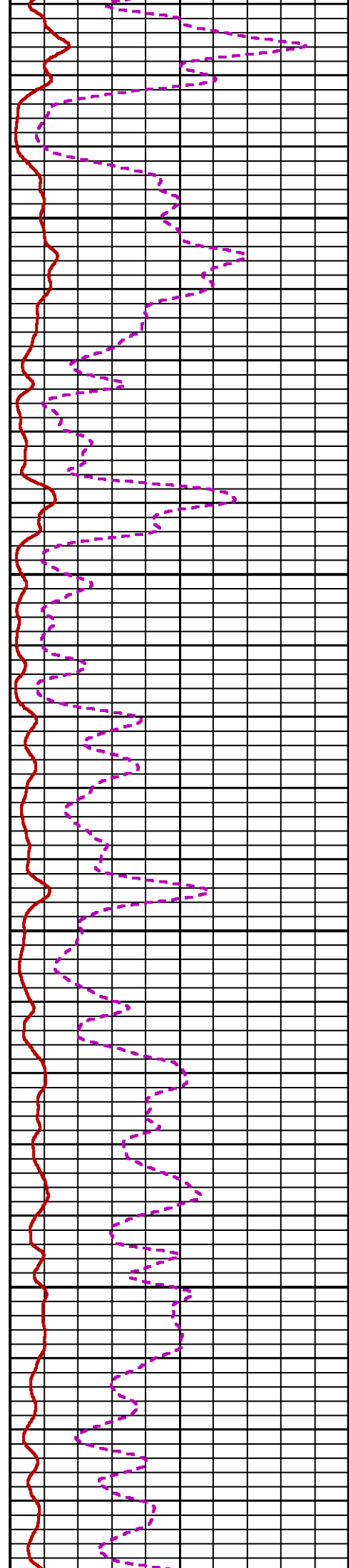
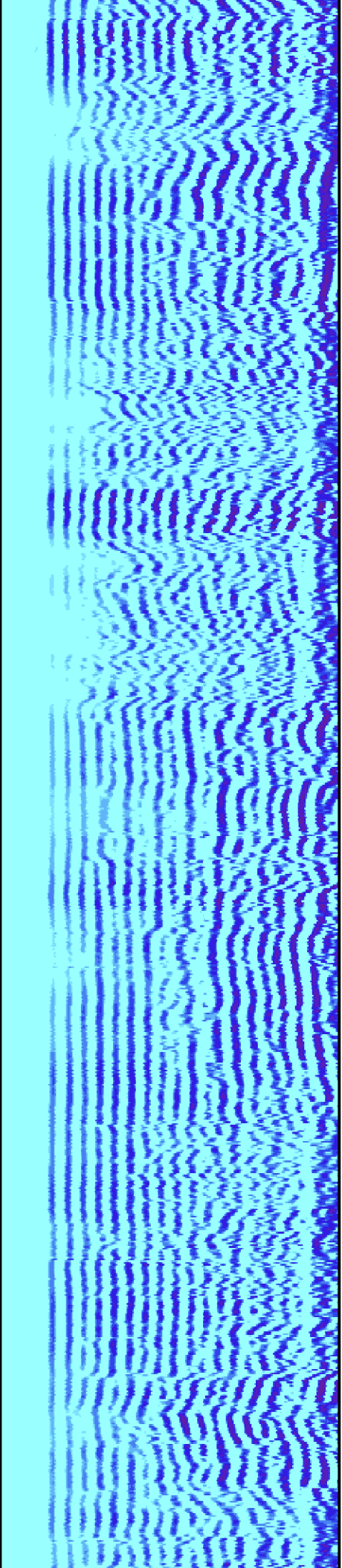


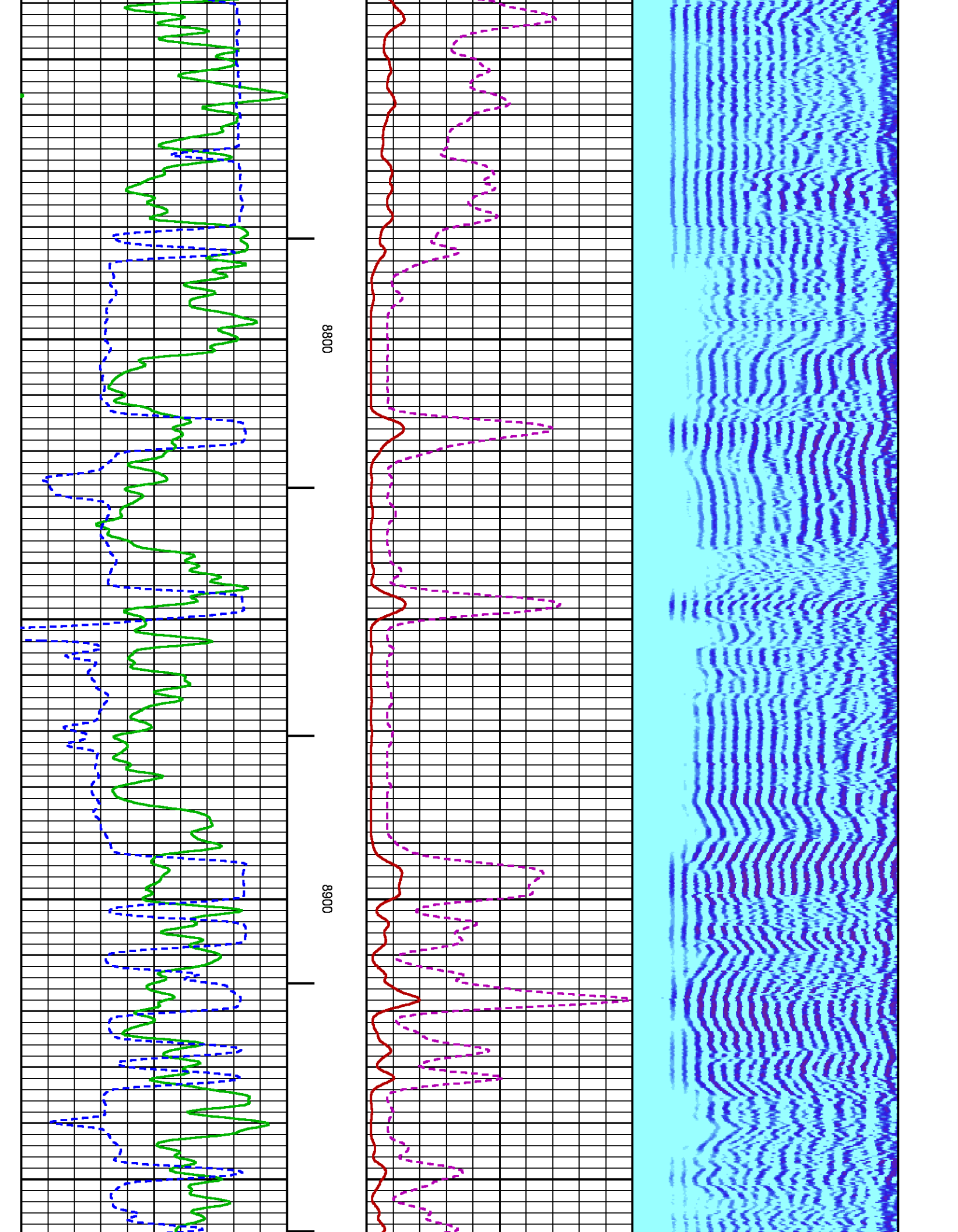


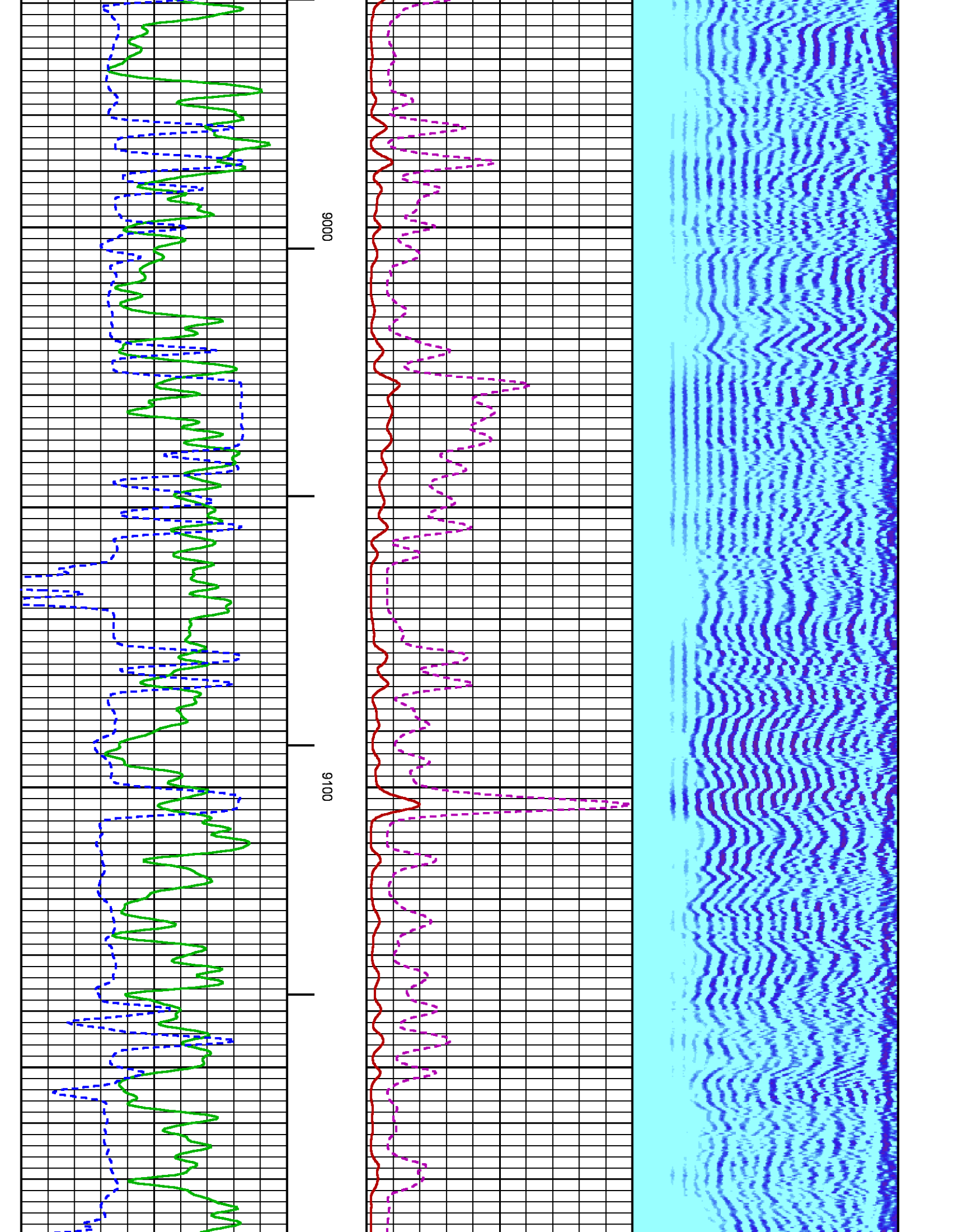


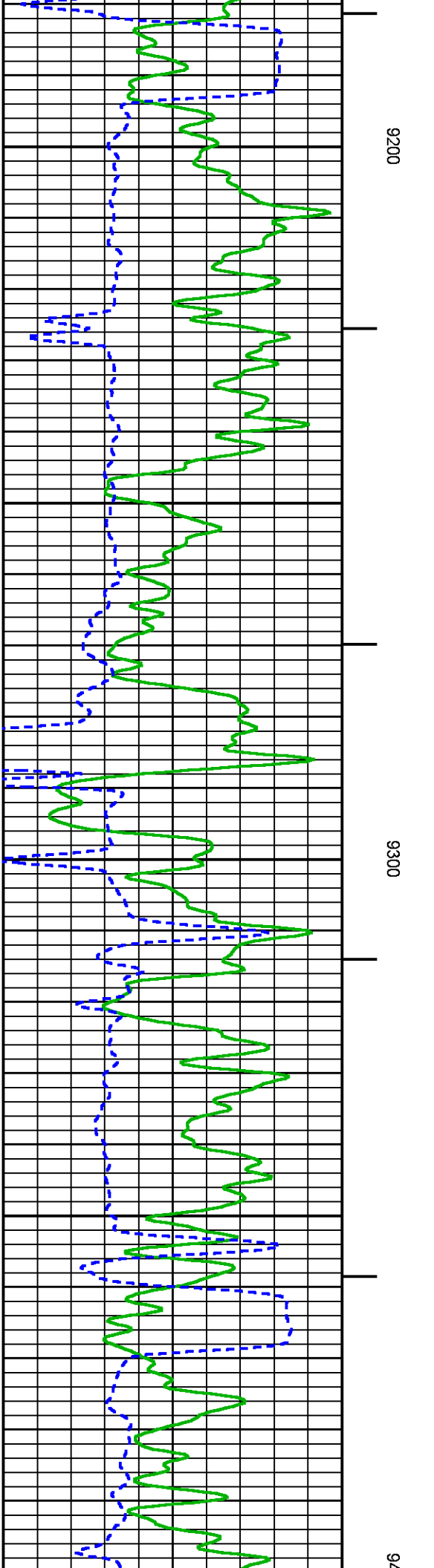
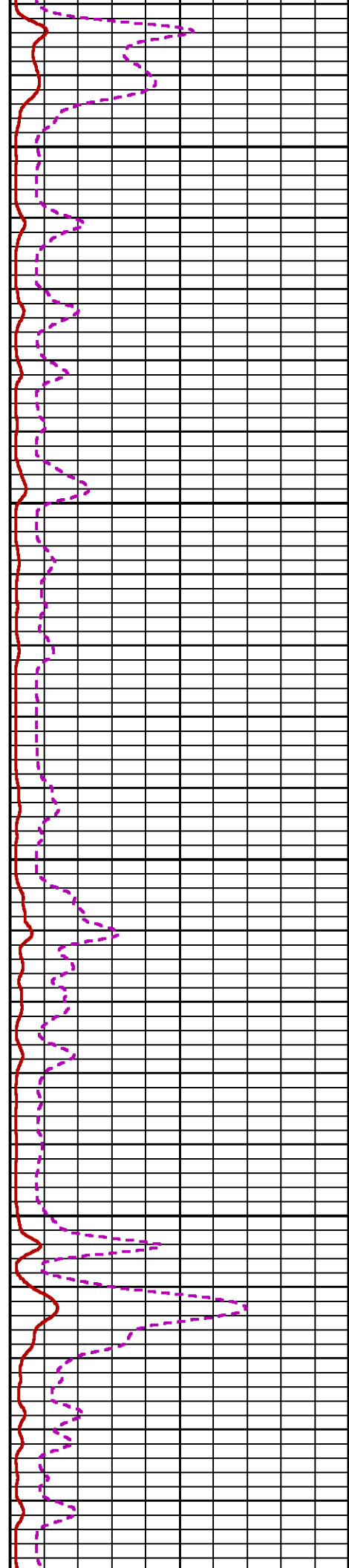
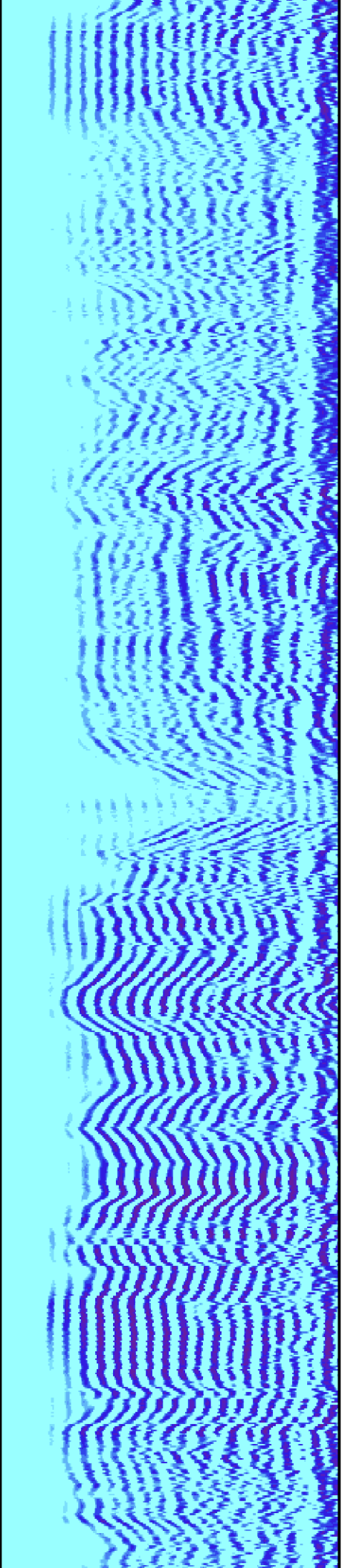








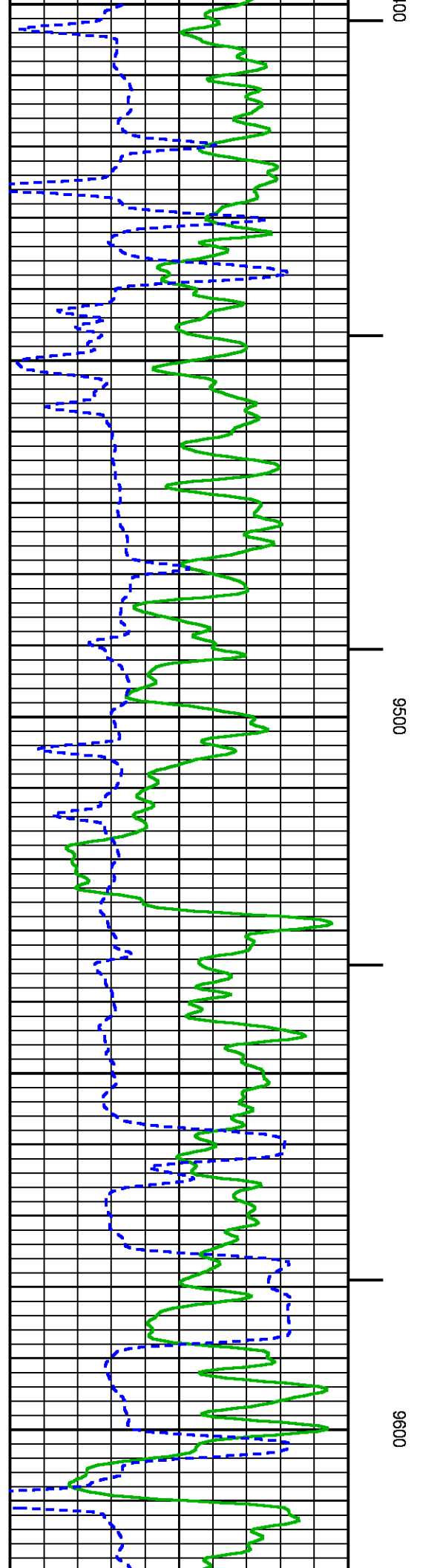
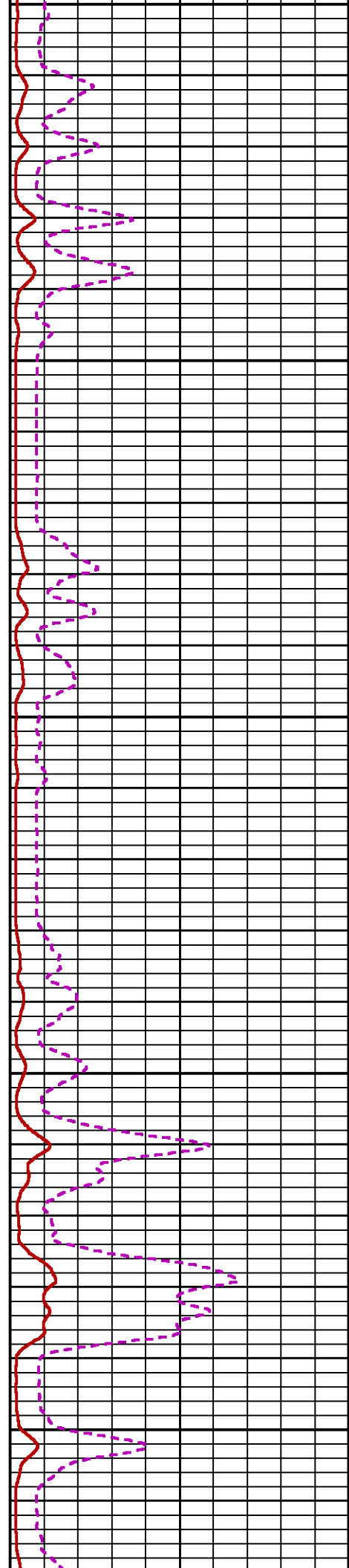
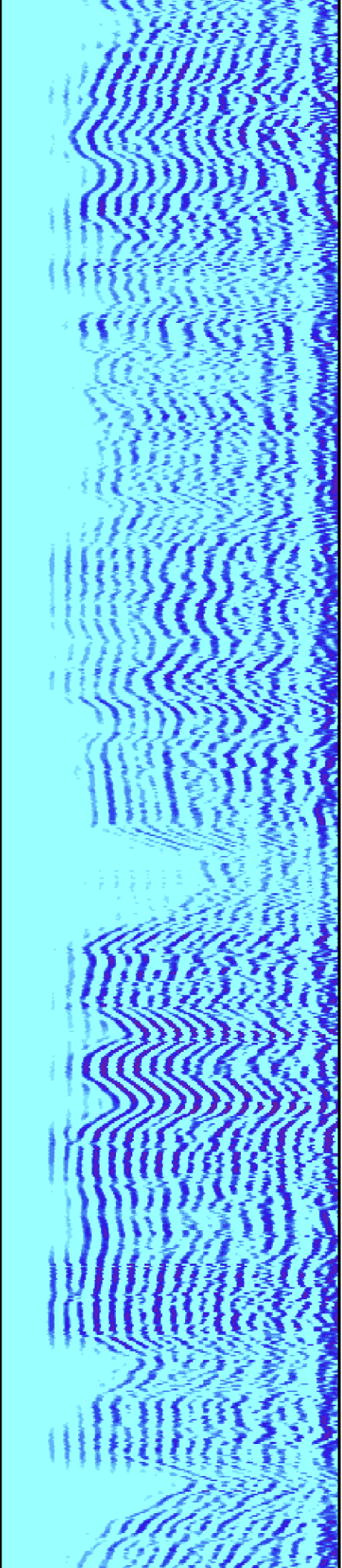


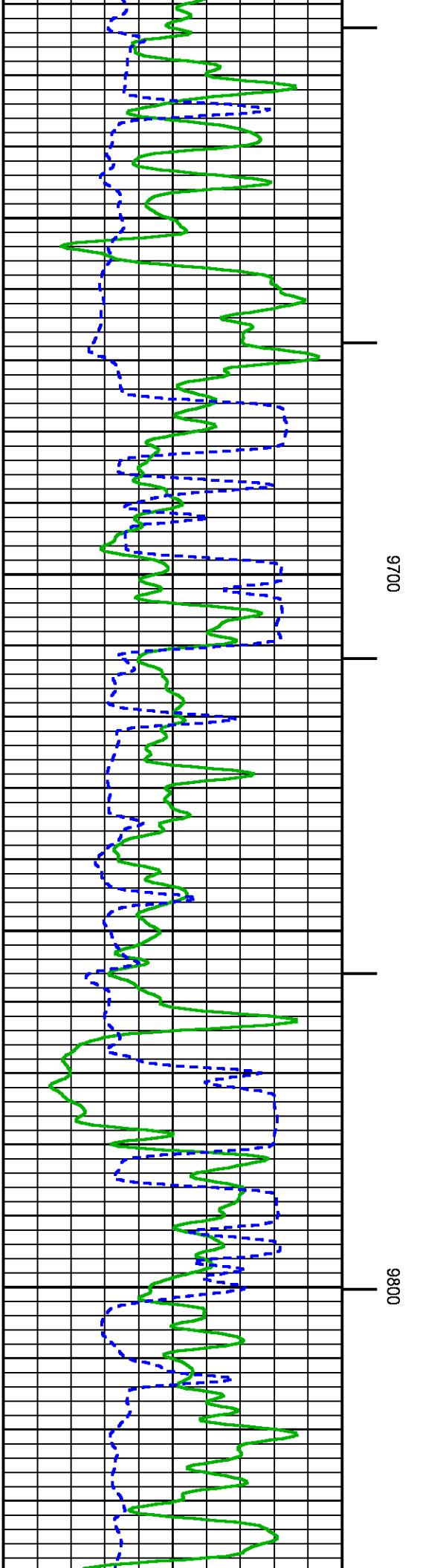
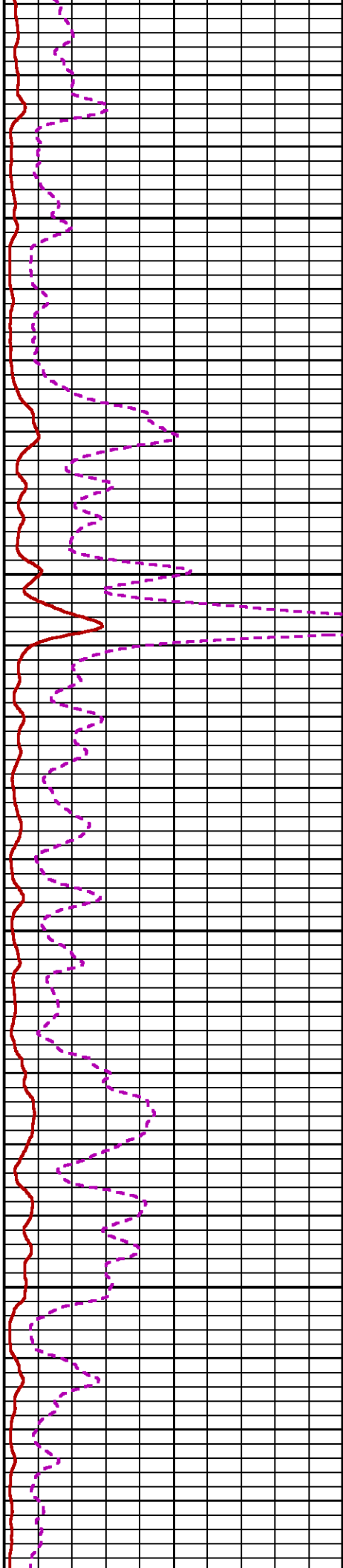
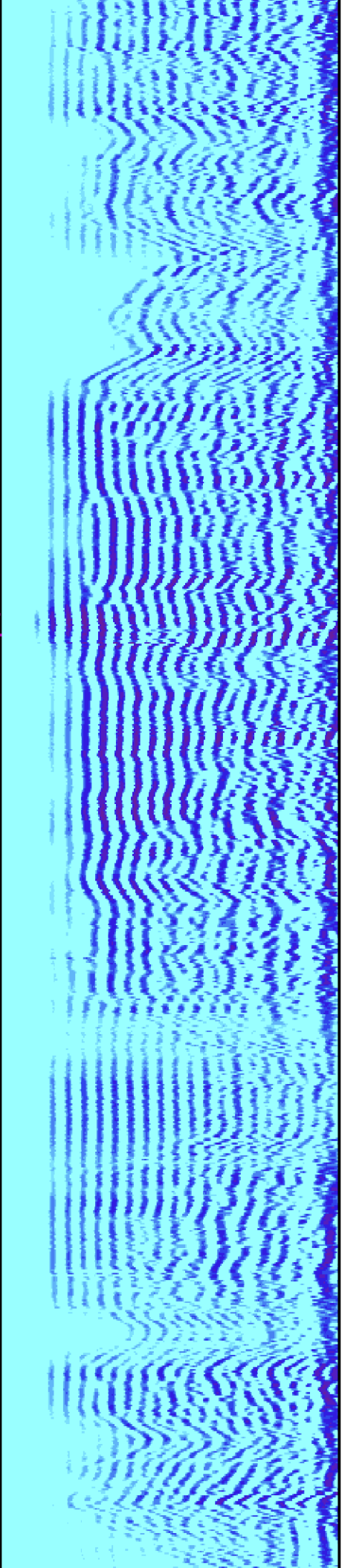


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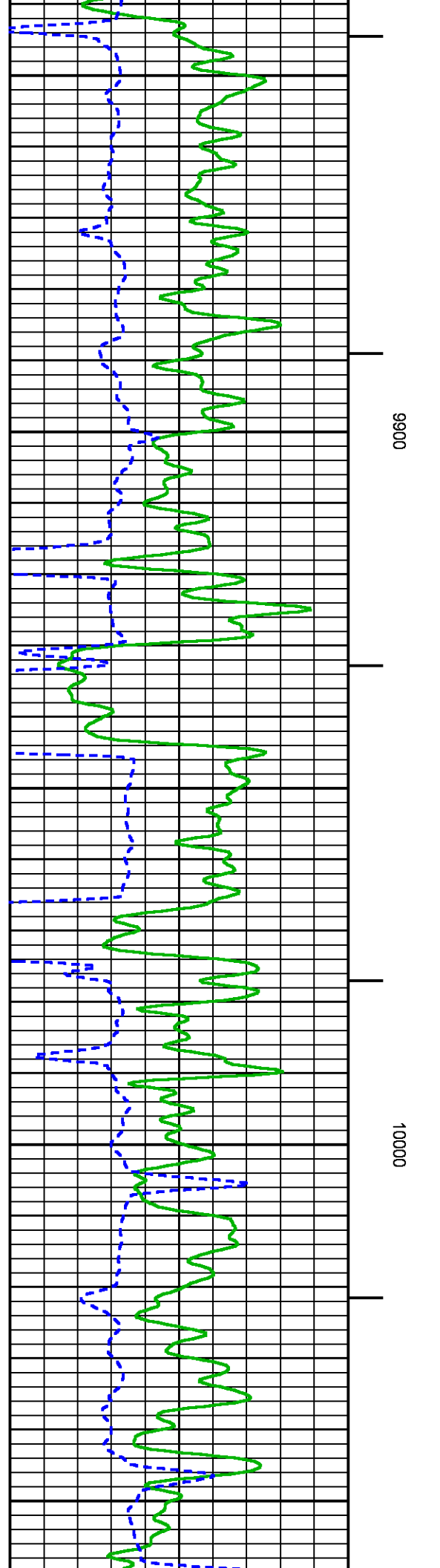
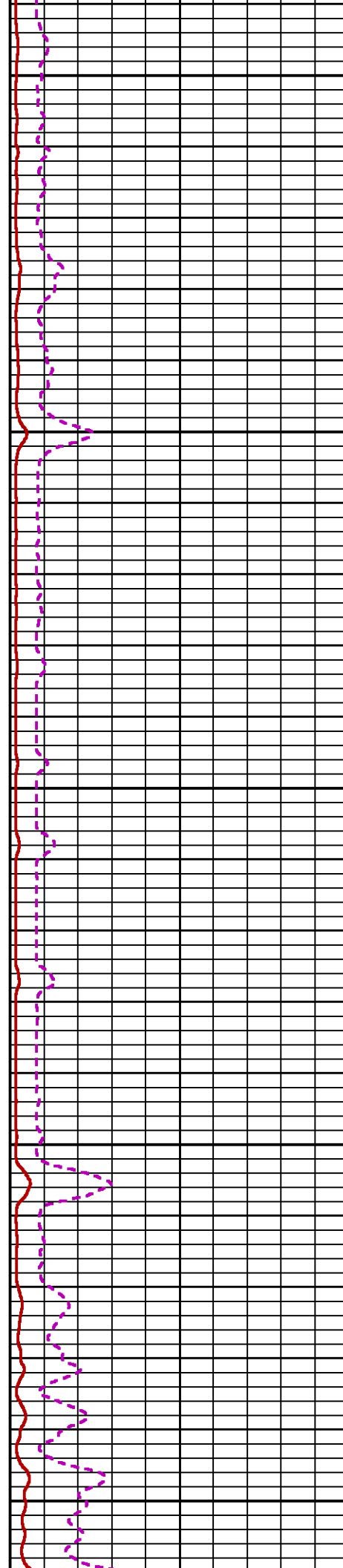
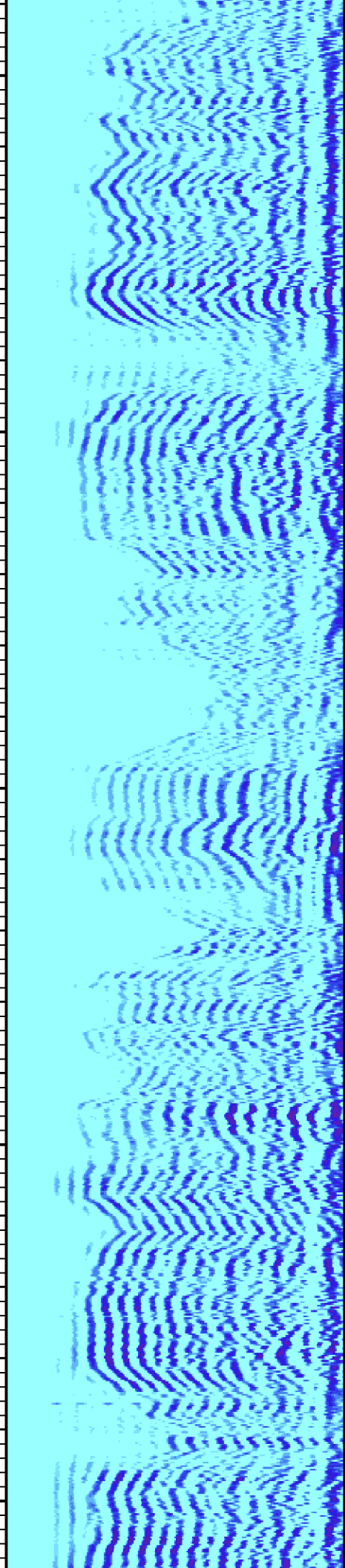
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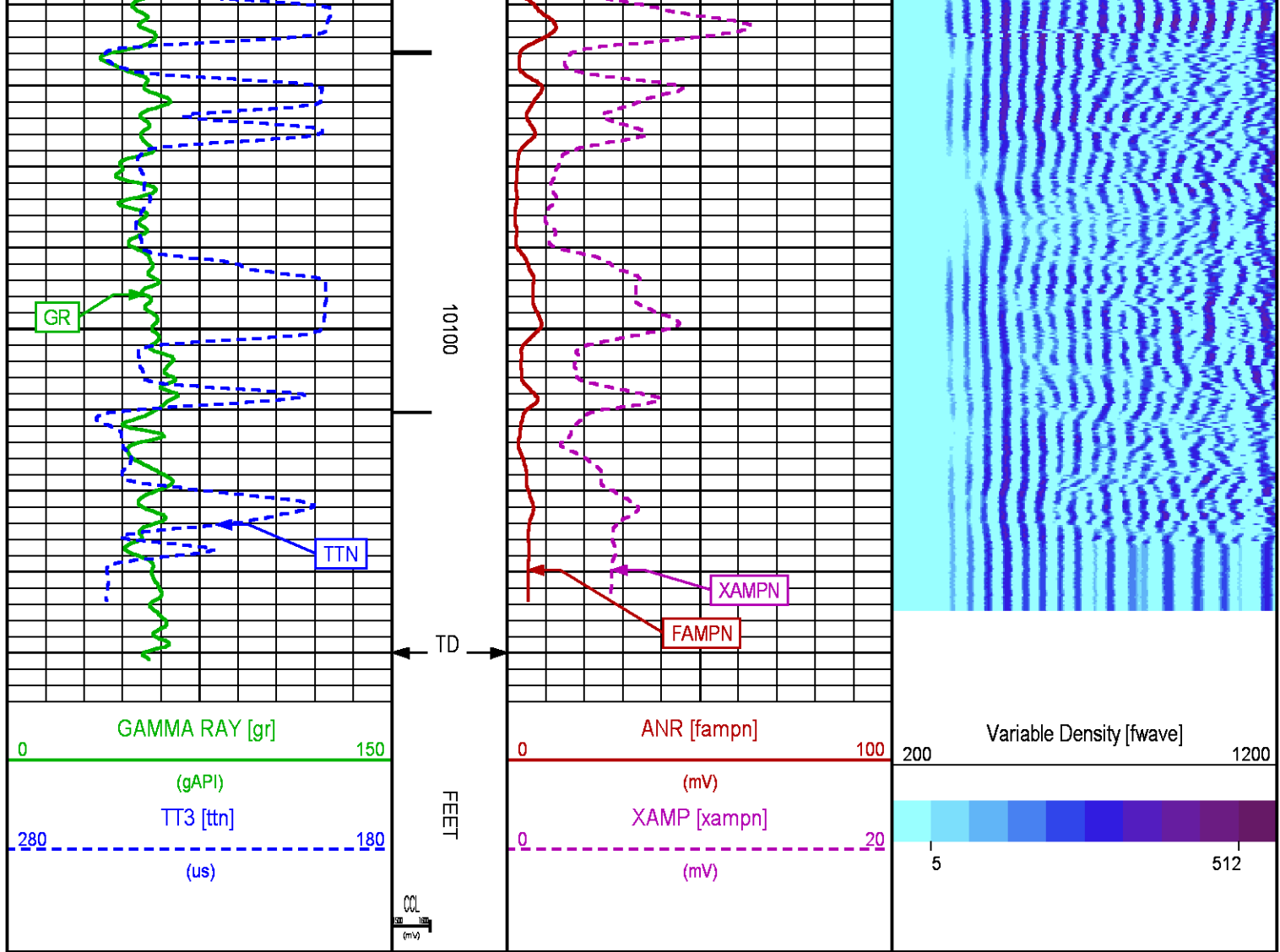




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SECONDARY PRESENTATION 0 PSI

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

Plotted: Mon Sep 1 17:56:54 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH089583/n012e02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 27.000 ft BOTTOM DEPTH: 10146.069 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)
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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*)	174	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*)	-74	us	"	"
	TOOL DELAY (str2*)	-74	us	"	"
	TOOL DELAY (str3*)	-74	us	"	"
	TOOL DELAY (str4*)	-74	us	"	"
	TOOL DELAY (str5*)	-74	us	"	"
	TOOL DELAY (str6*)	-74	us	"	"
	TOOL DELAY (str7*)	-74	us	"	"
	TOOL DELAY (str8*)	-74	us	"	"
	TOOL DELAY (strn*)	-74	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	135	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	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Sep 1 12:18:56 2014	CASING COLLAR LOCATOR
F1:FAMPN	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 1 12:18:56 2014	FAR WAVE FORM
F1:GR	Sep 1 12:18:56 2014	GAMMA RAY
F1:PBMAP	Sep 1 12:18:56 2014	PERCENT BOND CEMENT MAP
F1:TTN	Sep 1 12:18:56 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 1 12:18:56 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

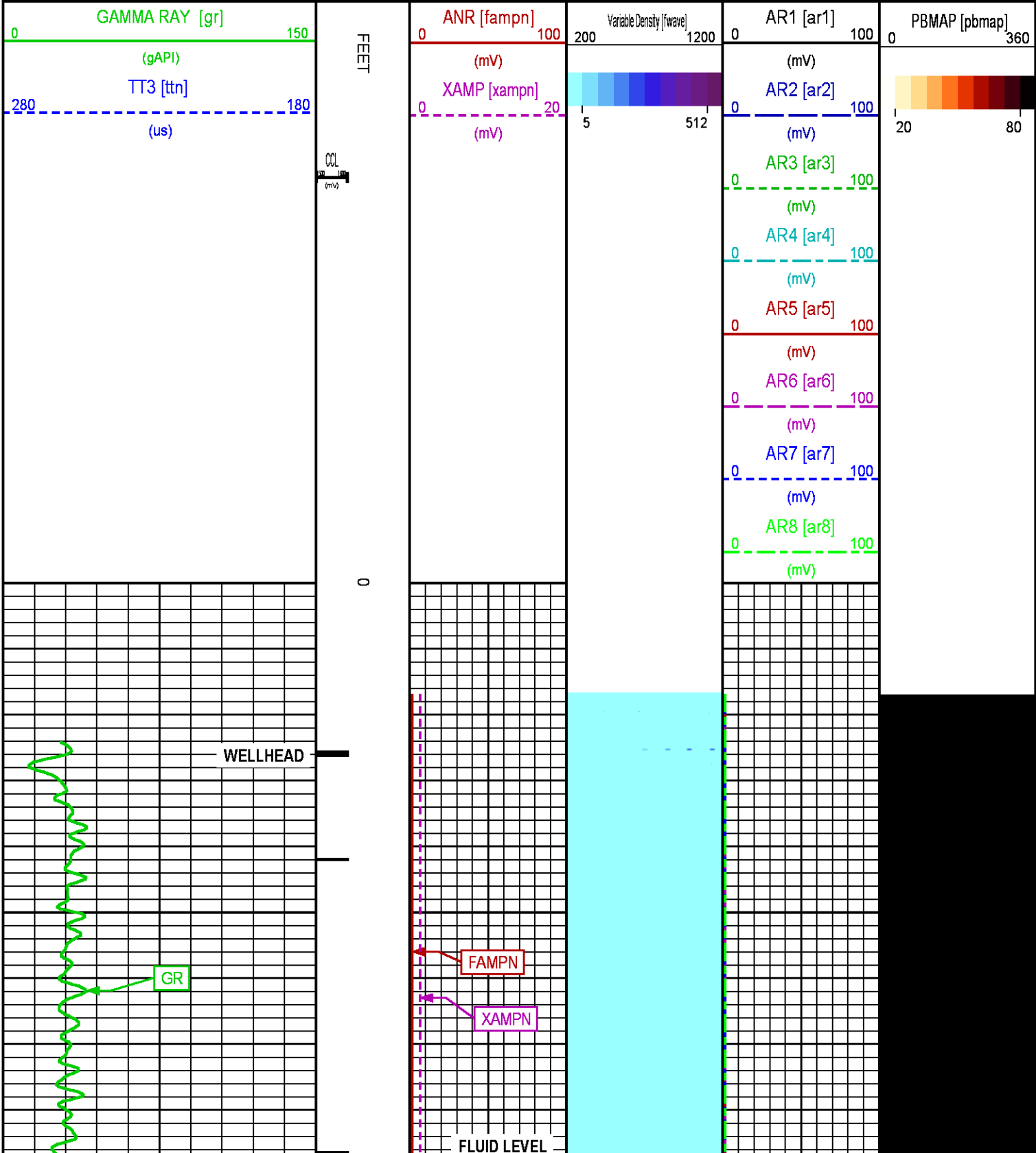
CURVE MEASURE POINT OFFSET

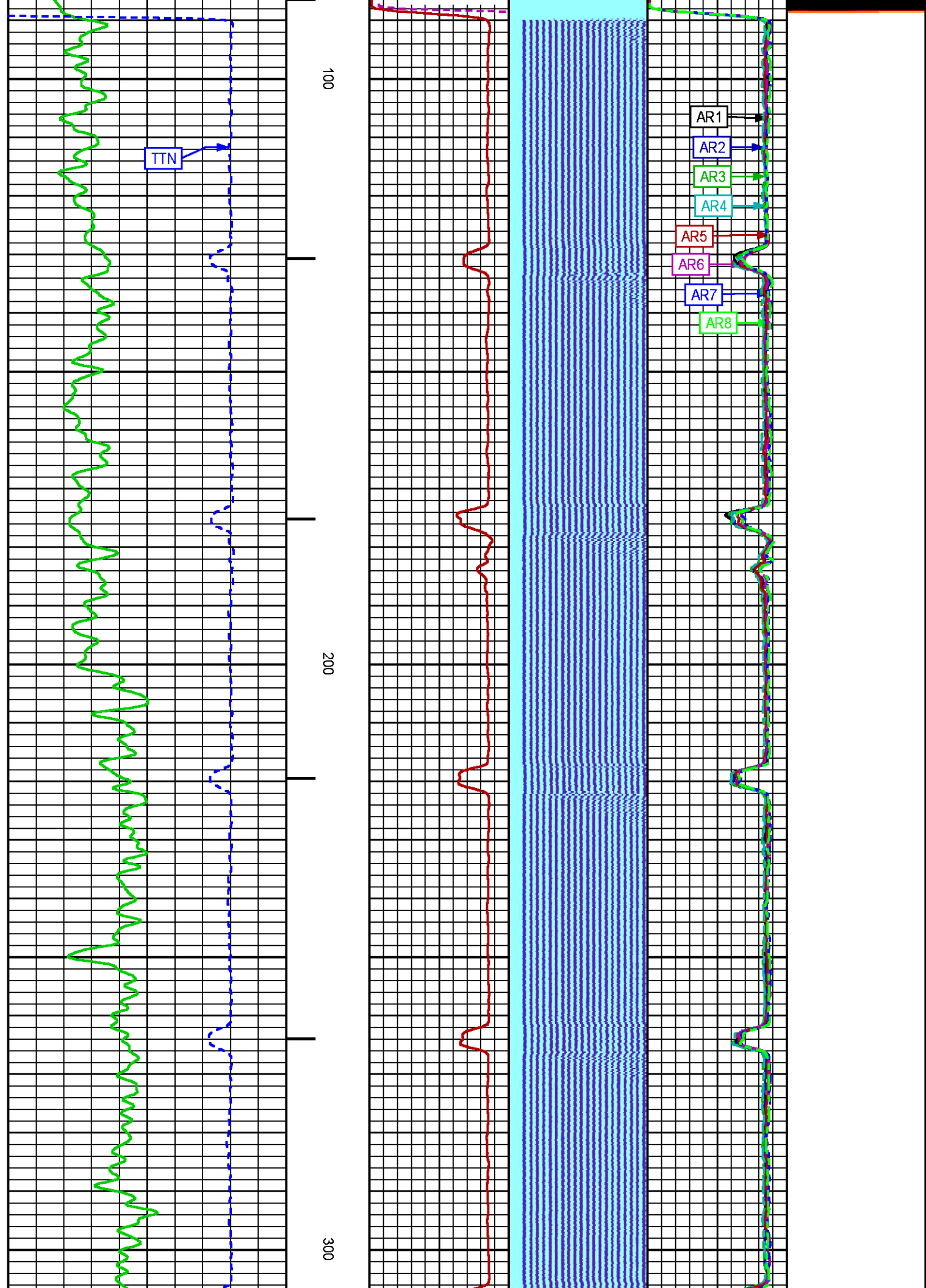
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	10.75	AR5	10.75	CCL	0.50	XAMPN	10.75

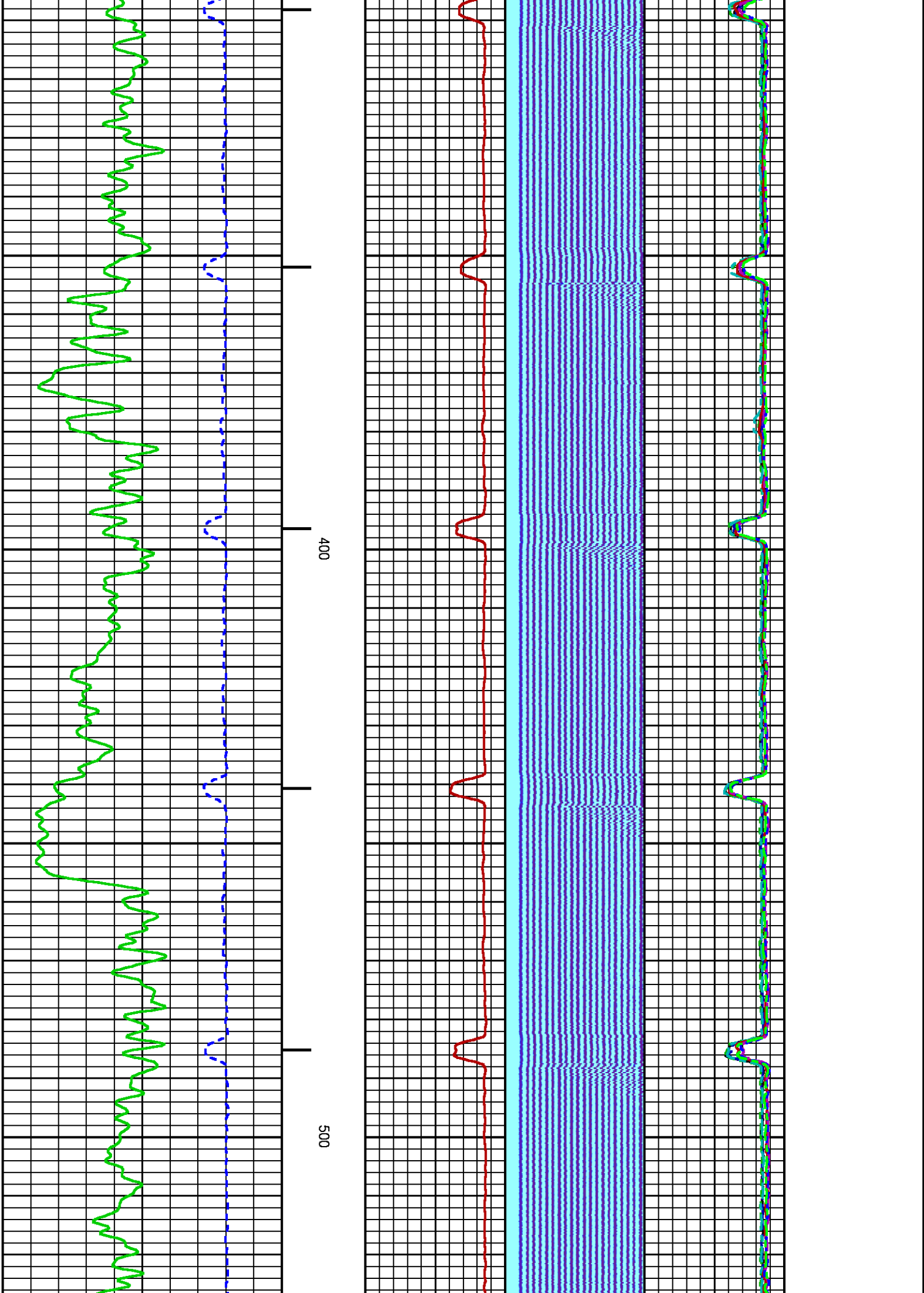
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

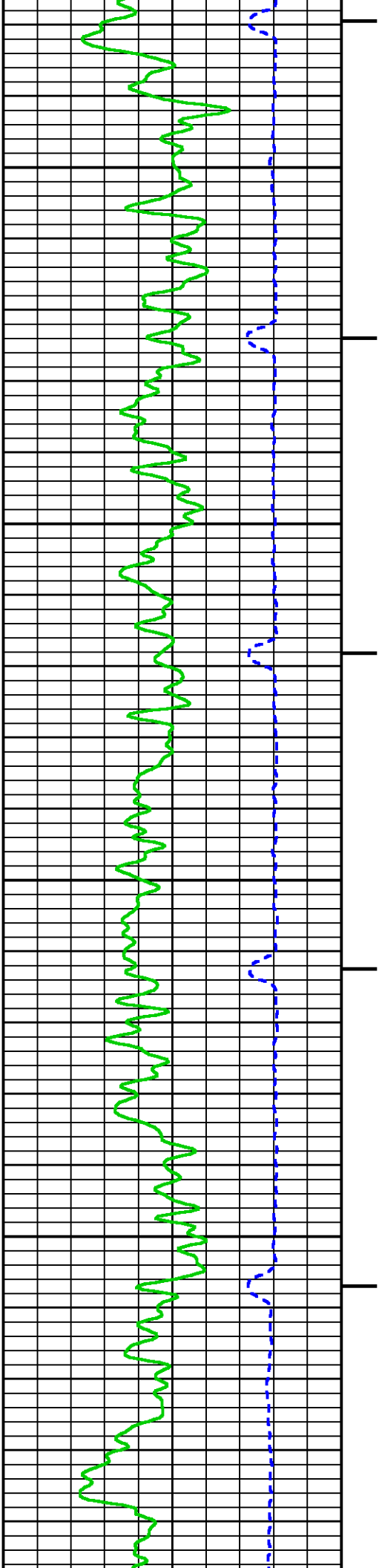
Presentation : HL6670:/dat1a/CH089583/324CBL_MAIN_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval : 0 - 10145 Feet

Data File 1 : F1 : HL6670:/dat1a/CH089583/324CBL_MAIN.xtf
Created On : Sep 1 12:18:56 2014
Company : WPX ENERGY
Well : FEDERAL NER 324-32
Field : RULISON
File Interval : 15.75 - 10148.5 Feet
OCT : n012e



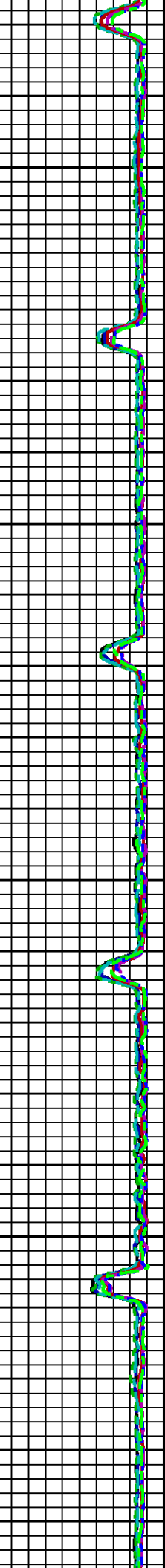
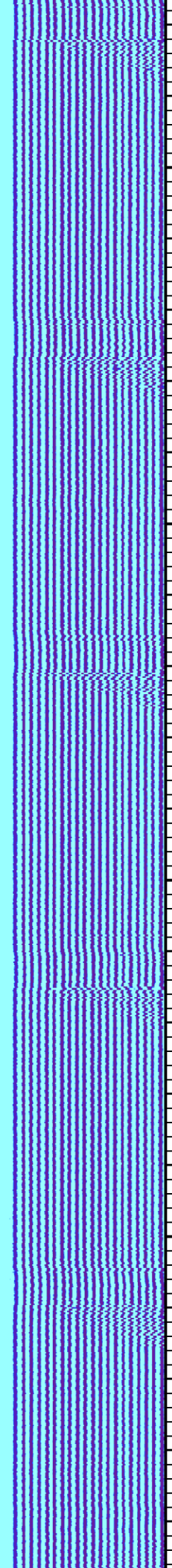
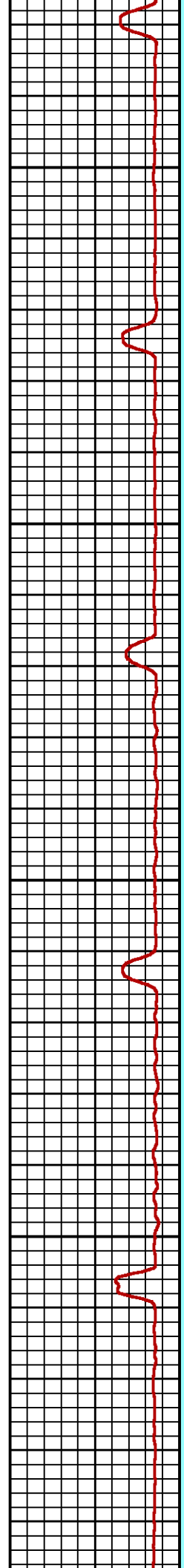


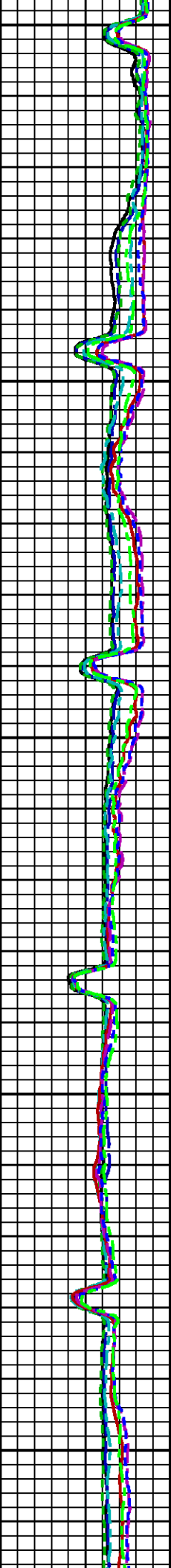
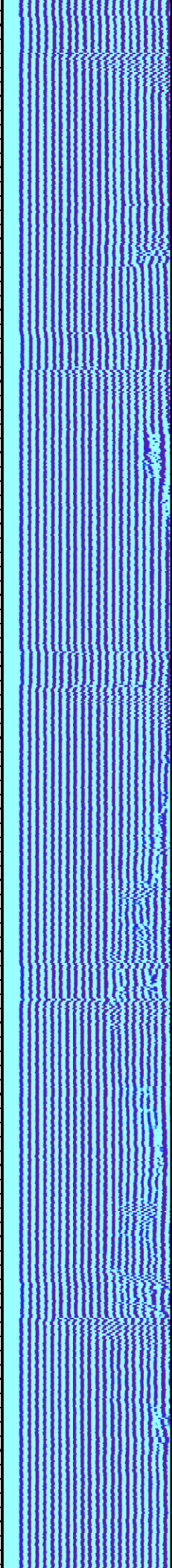
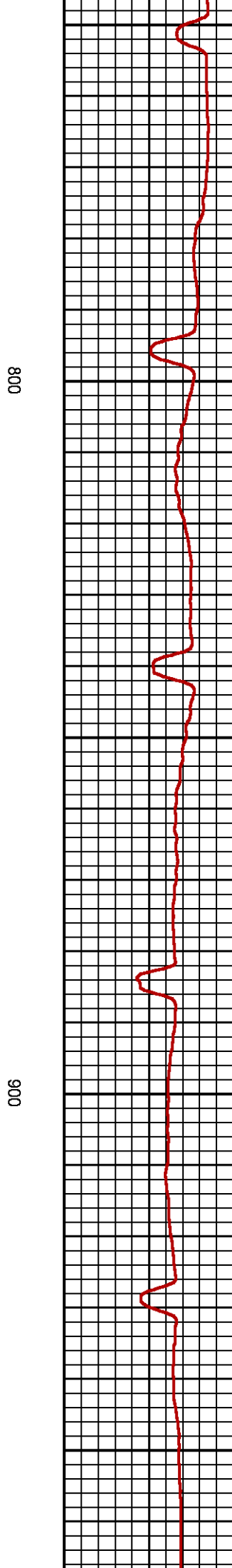
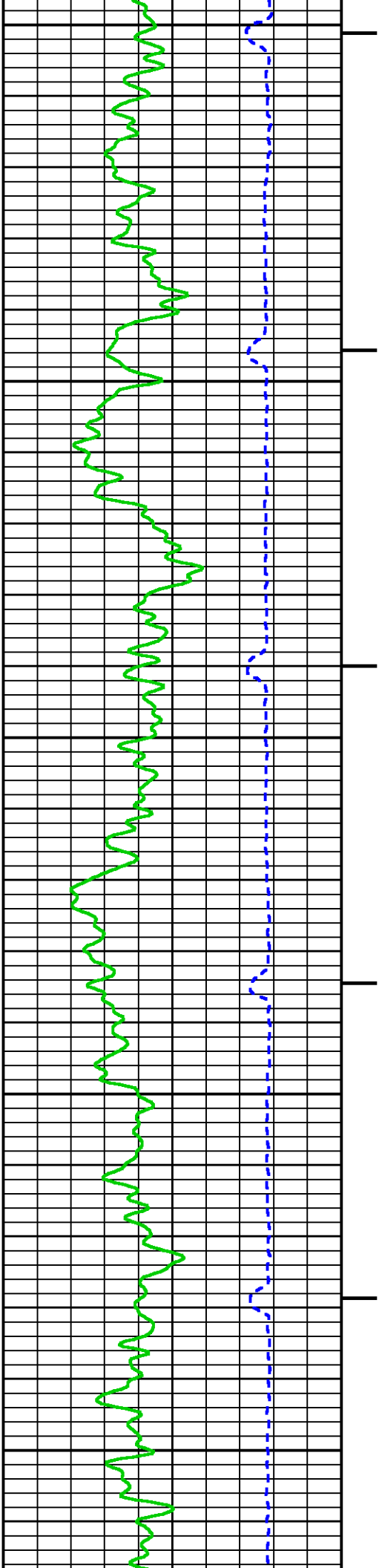


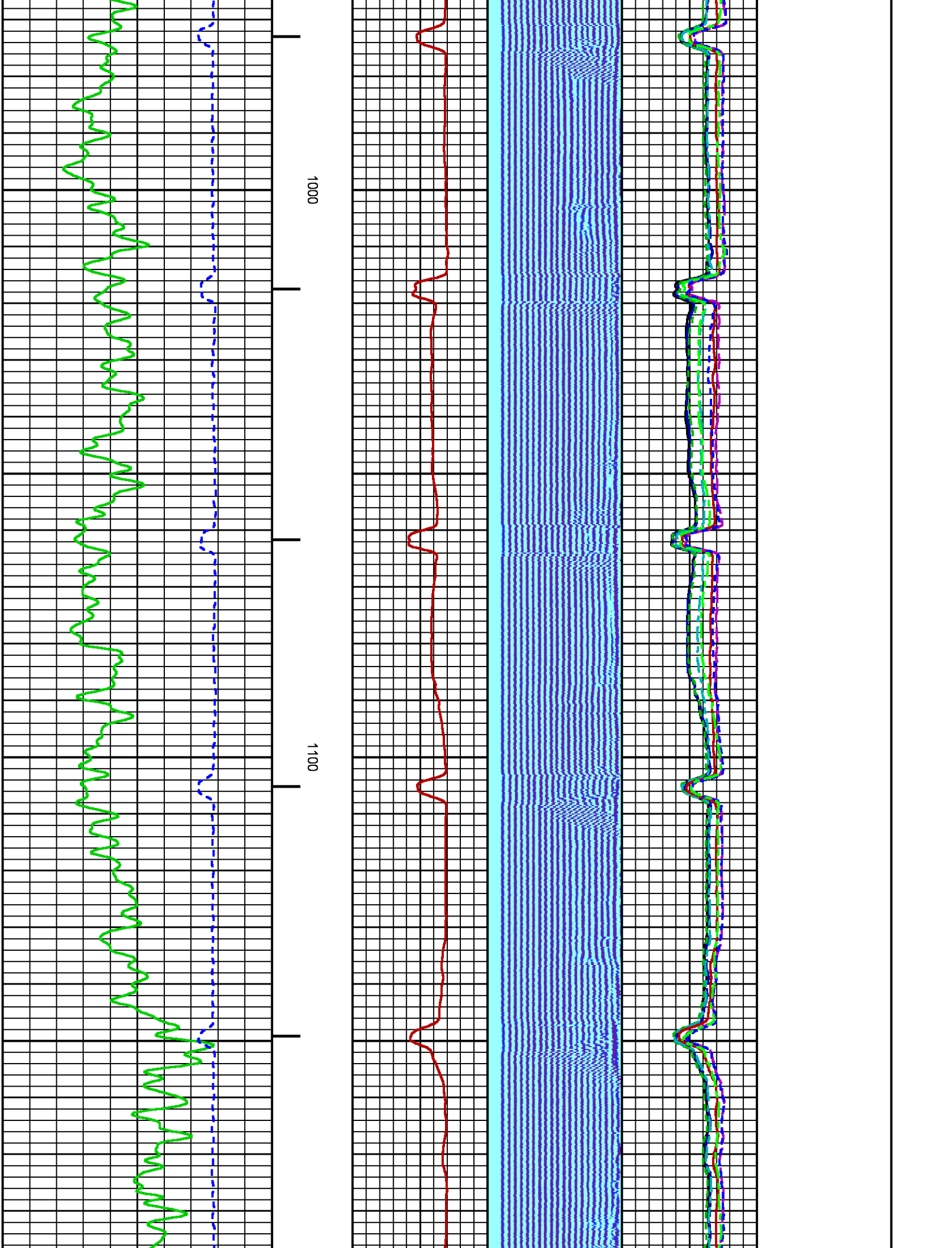


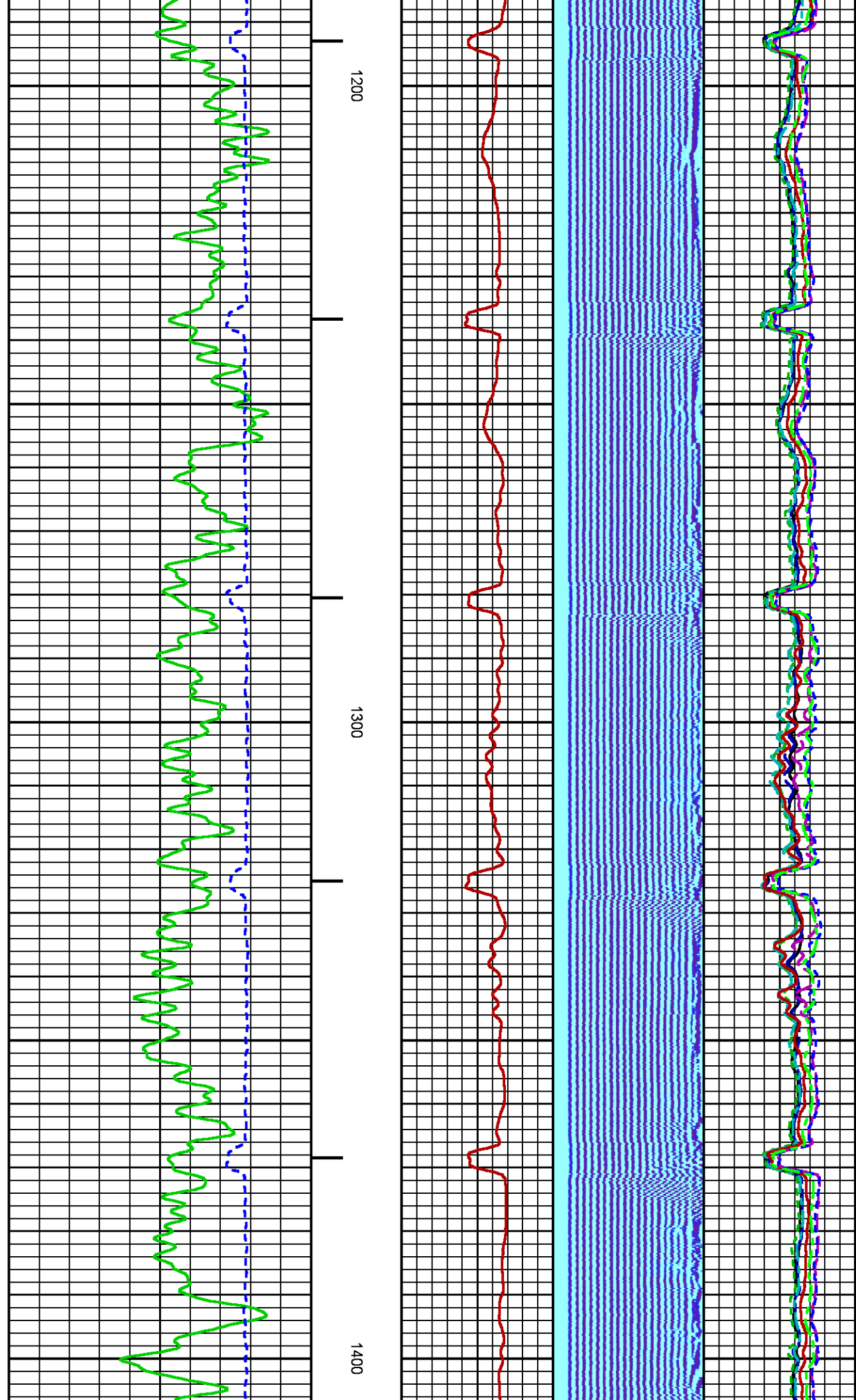
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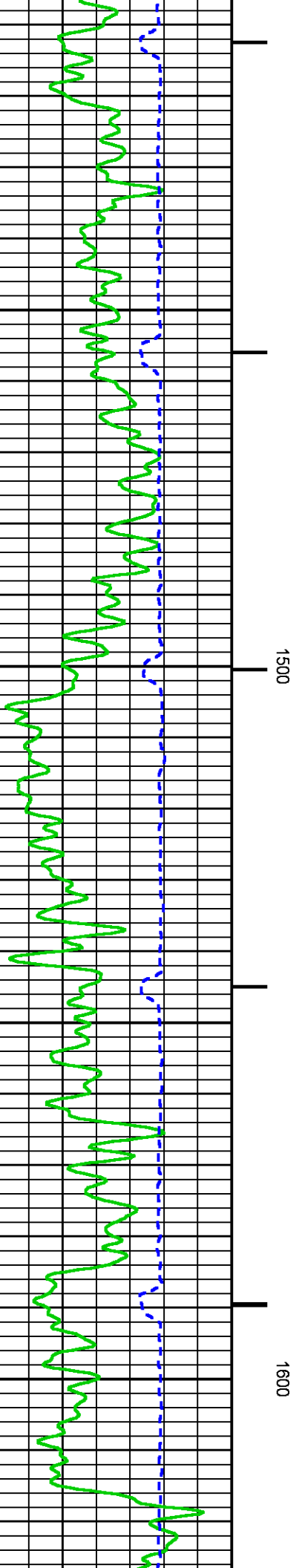
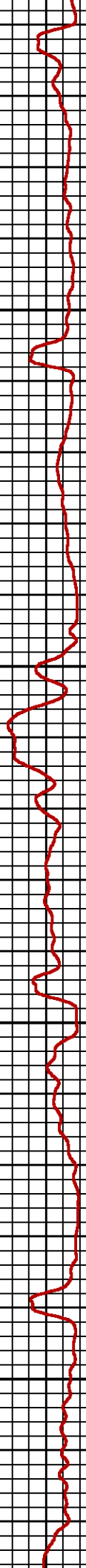
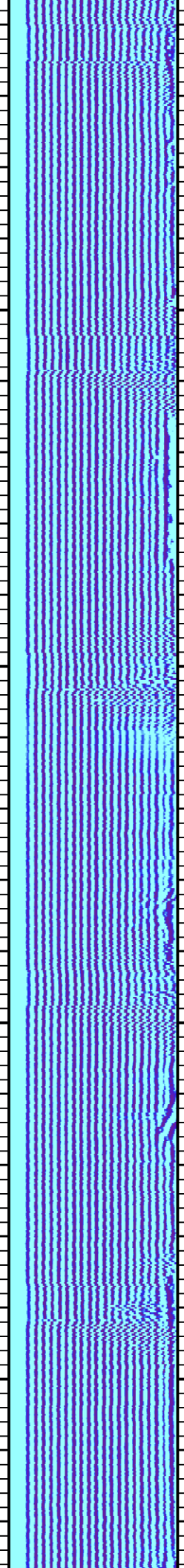
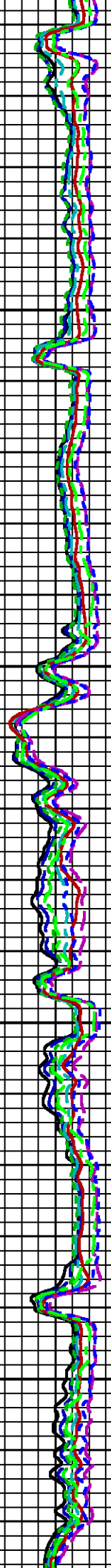
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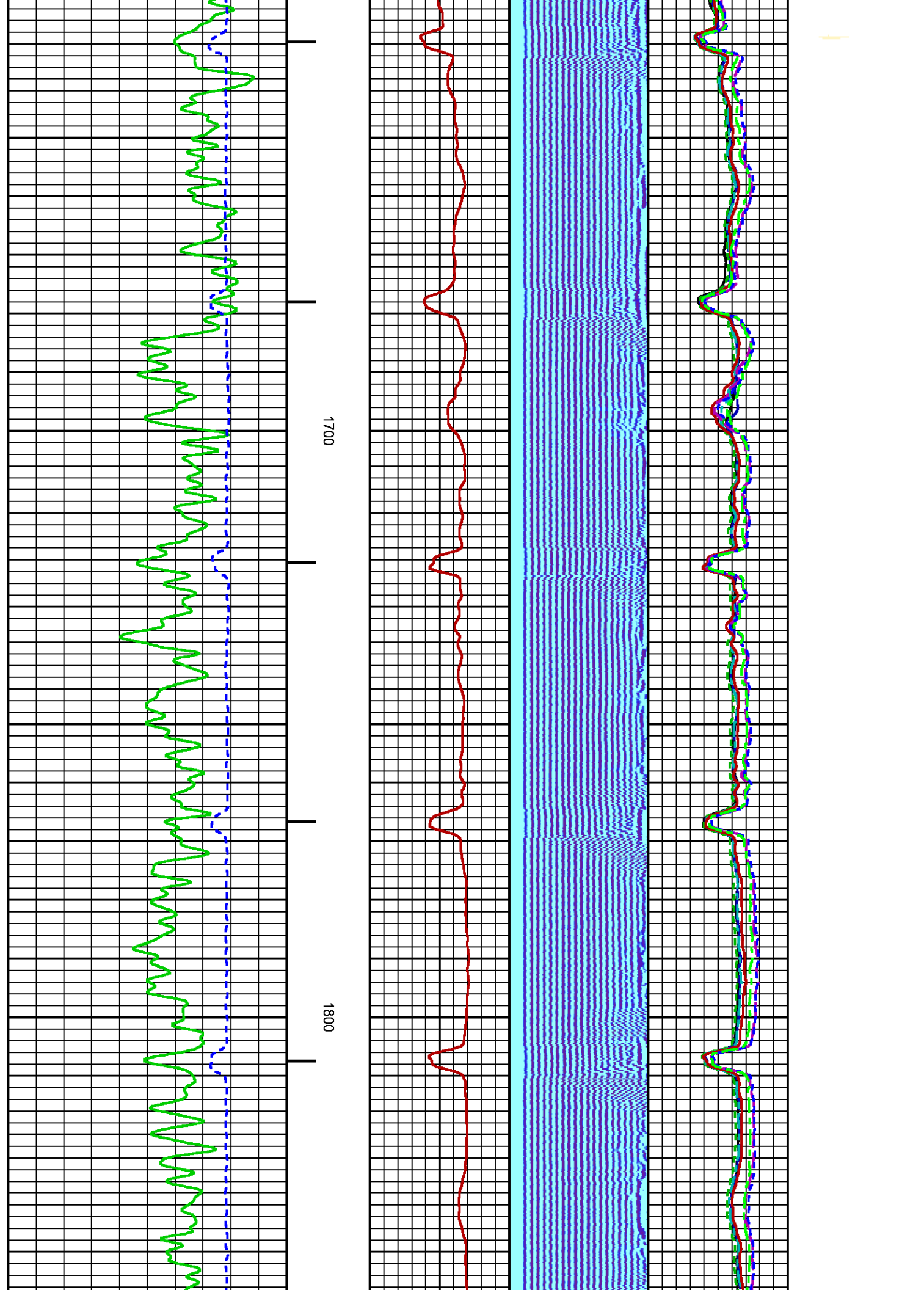


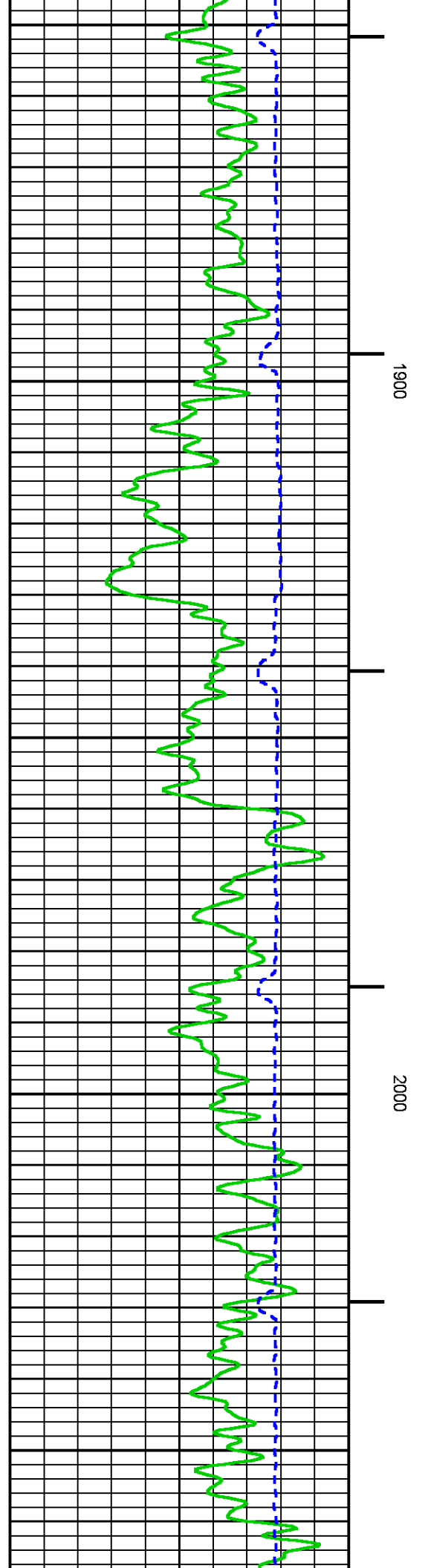
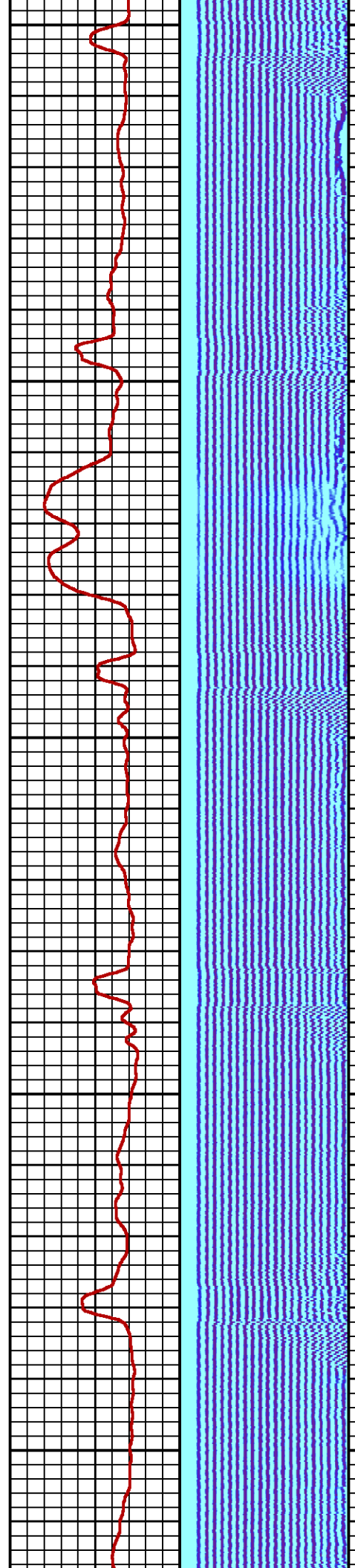
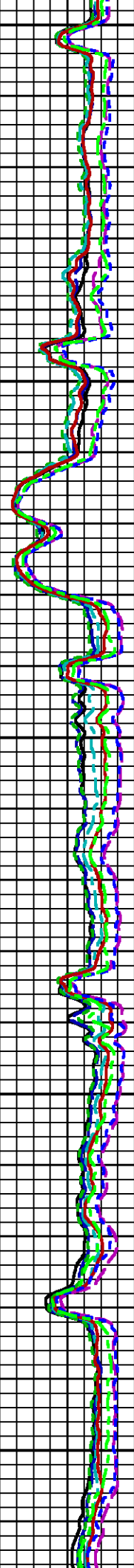
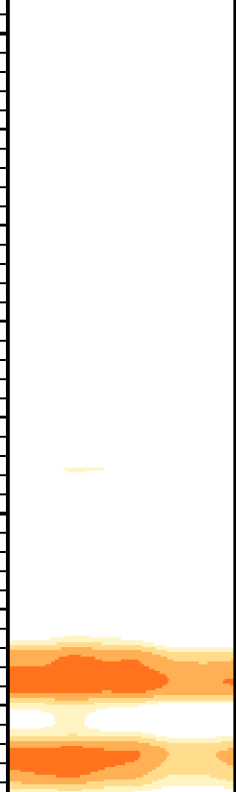


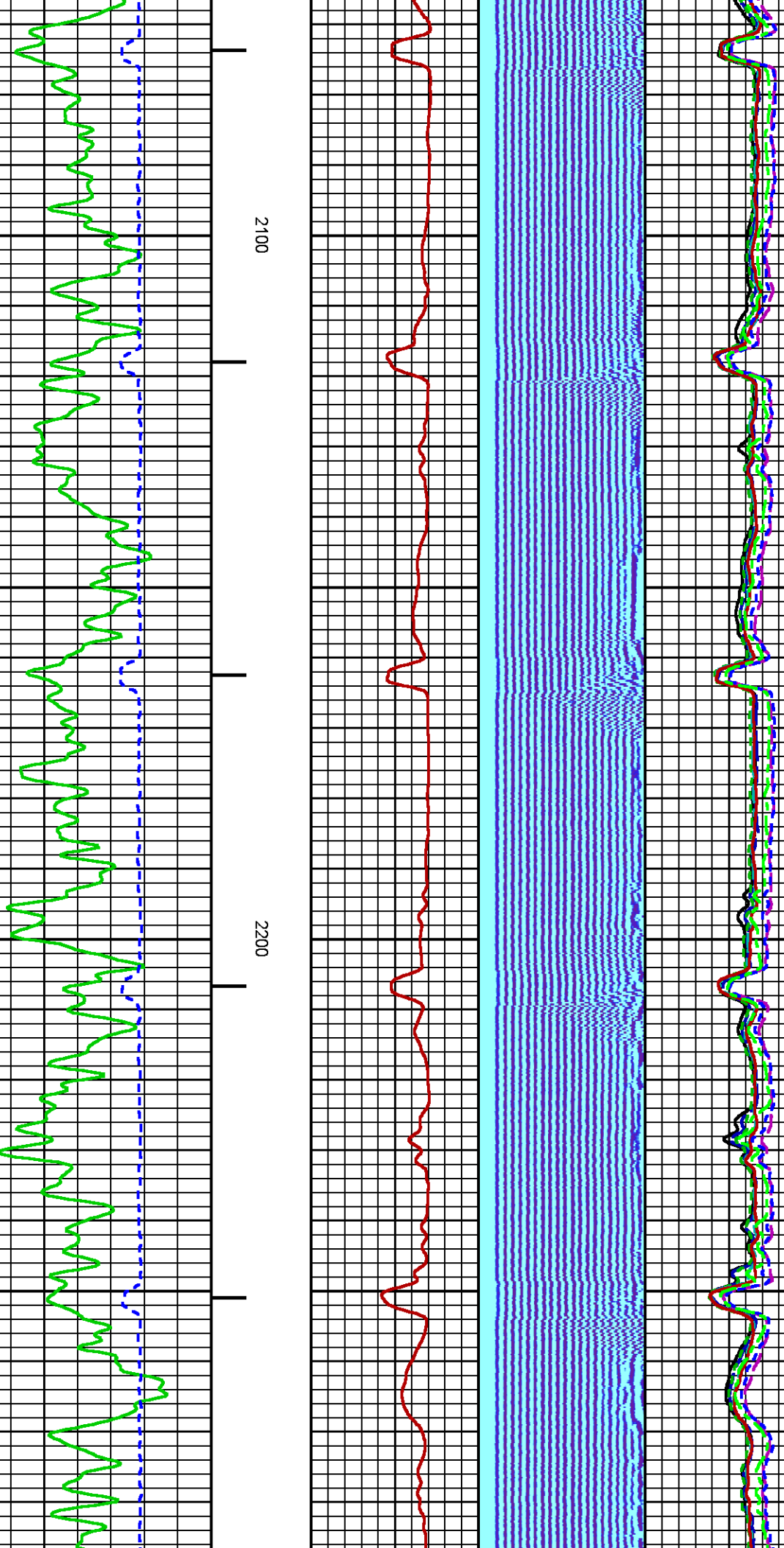


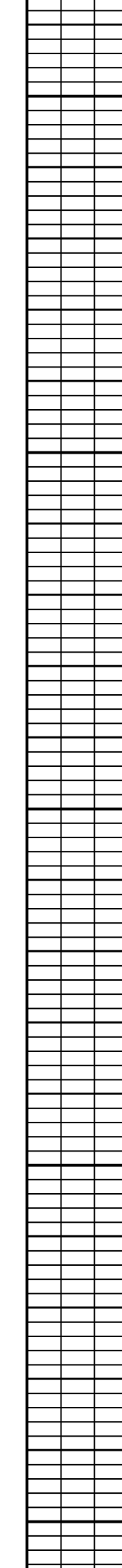
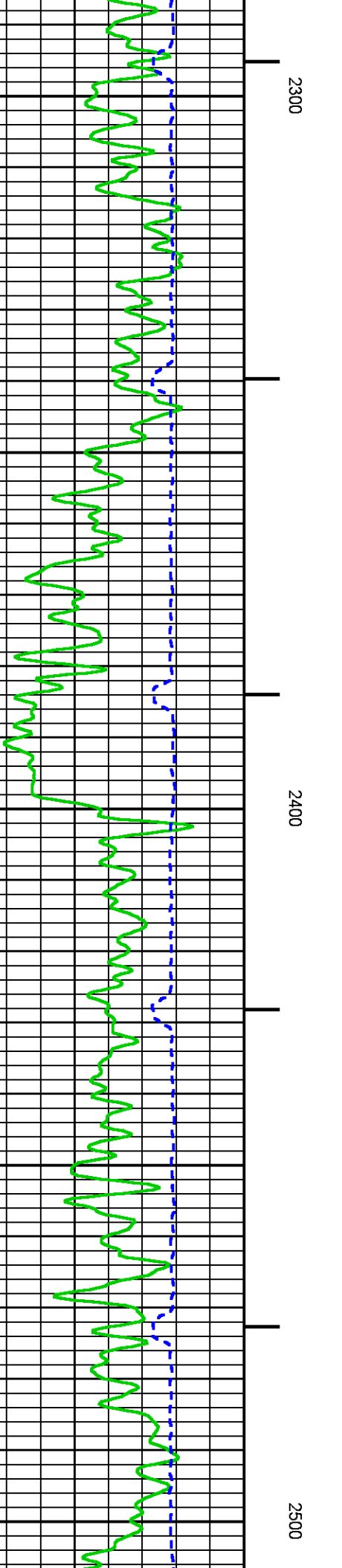
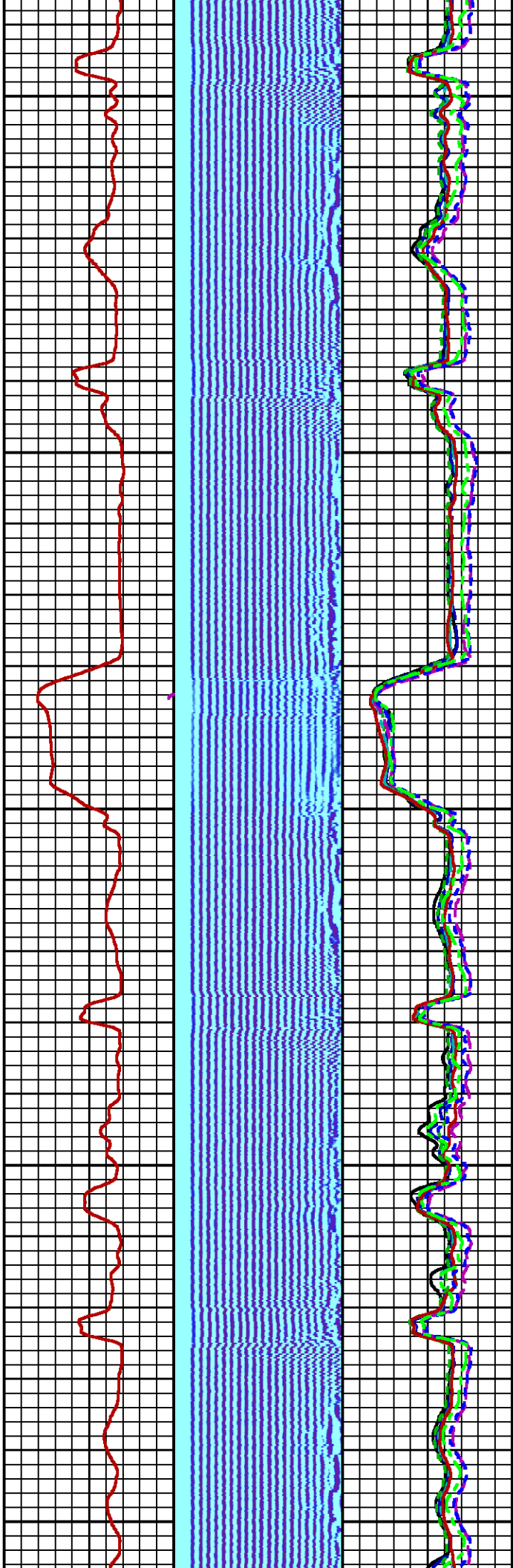
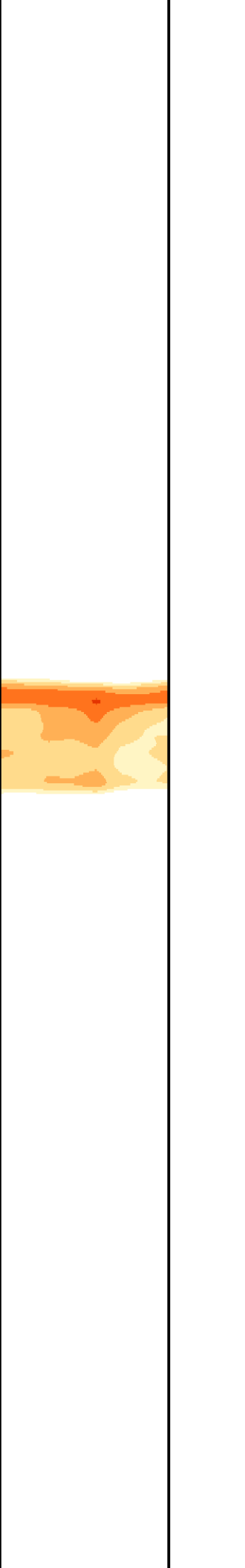
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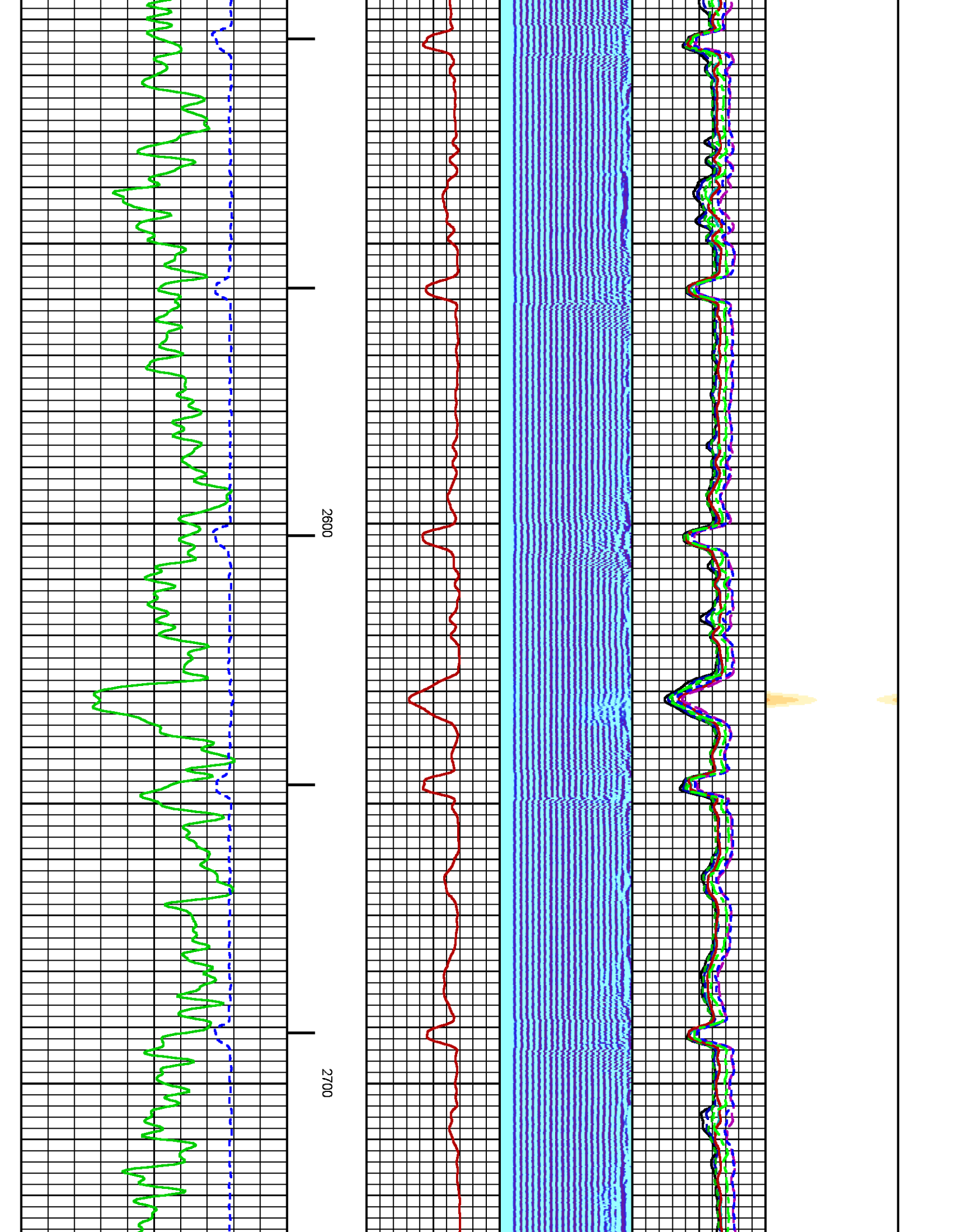


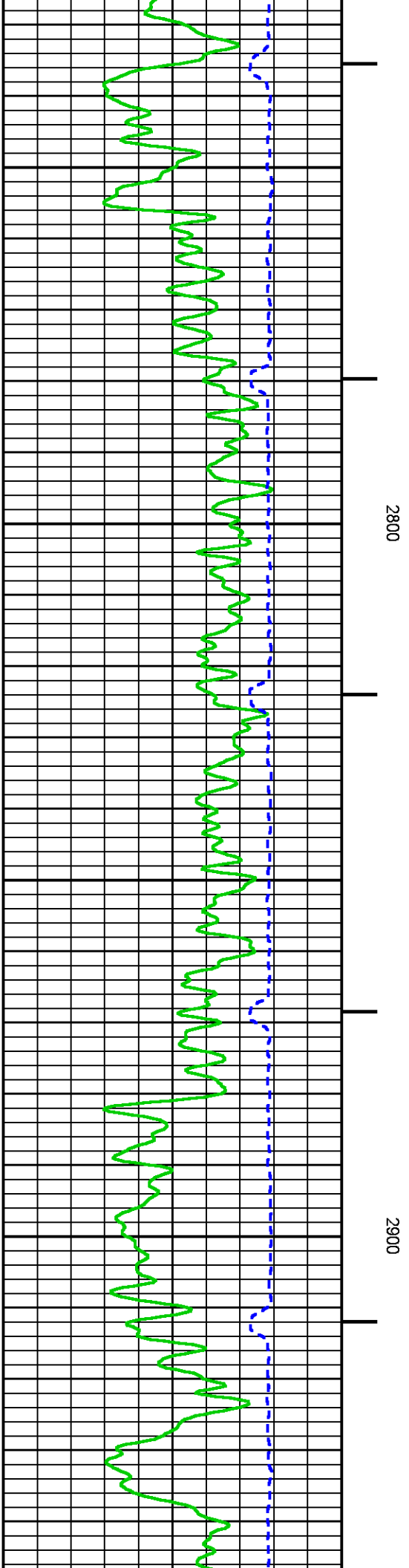
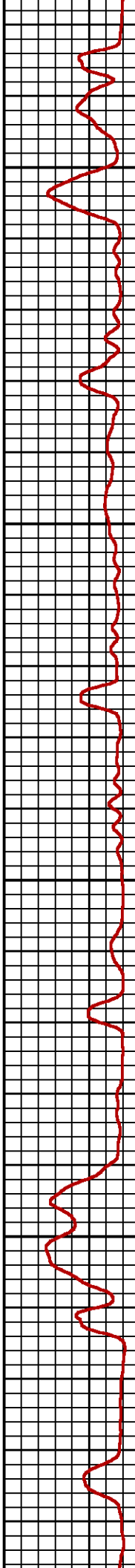
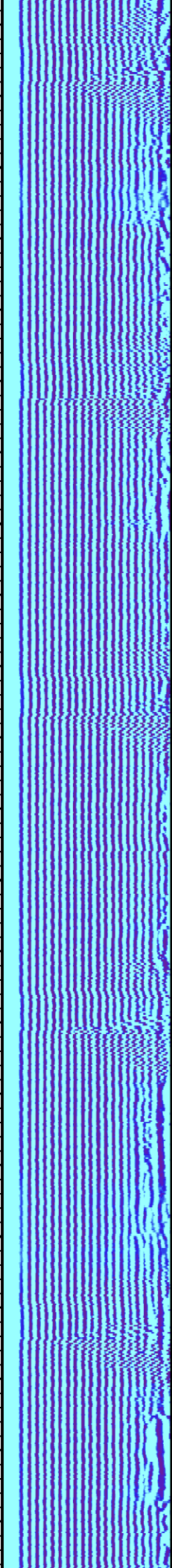
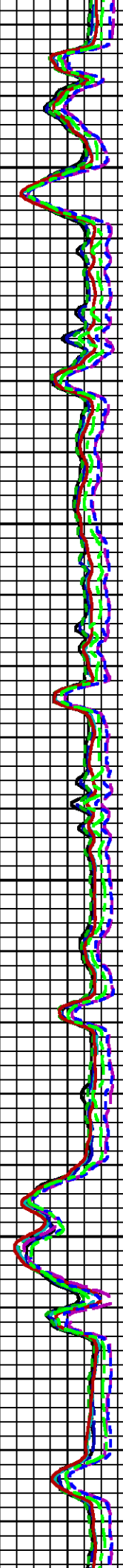
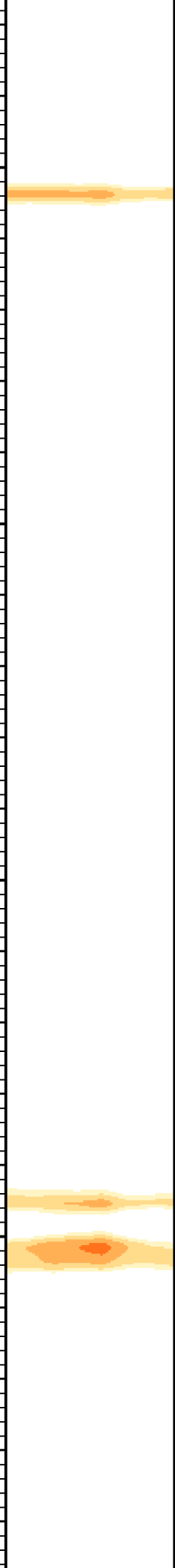


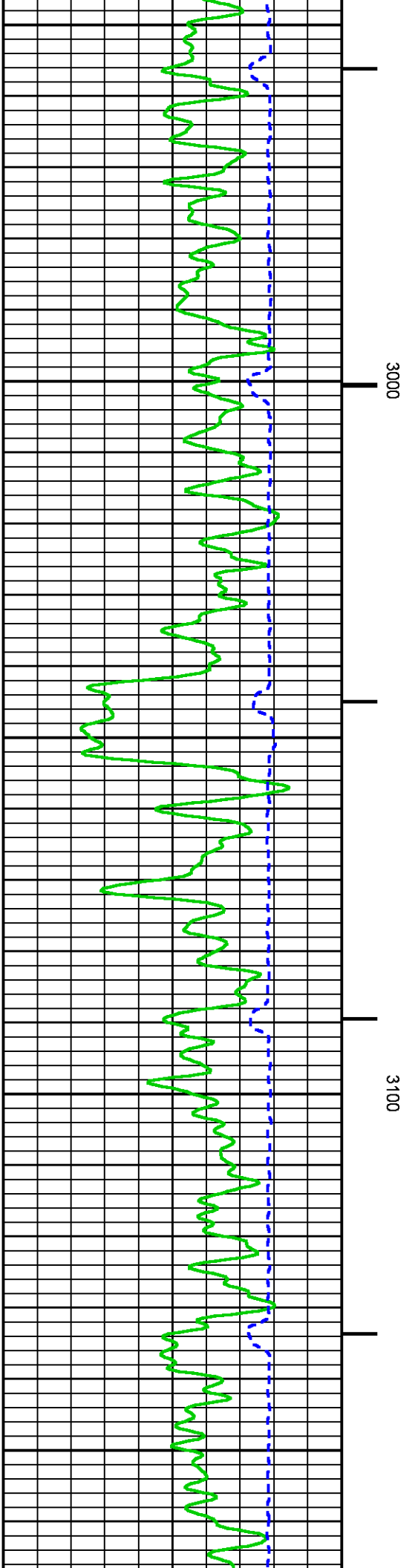
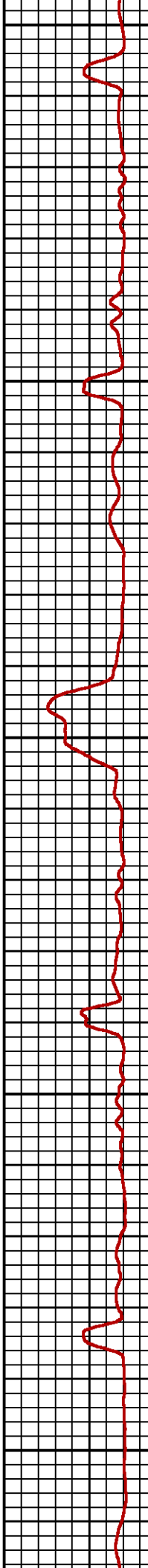
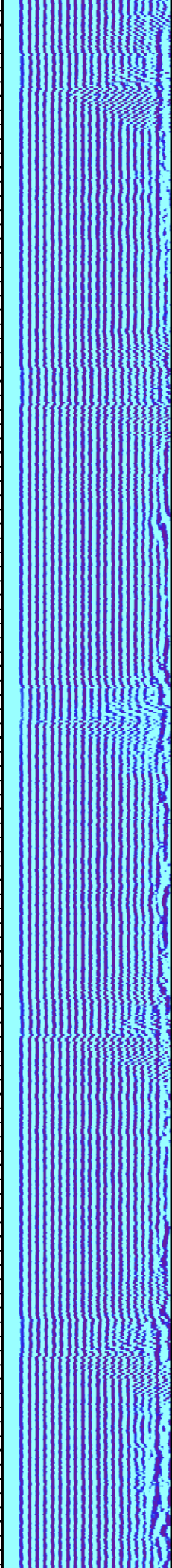
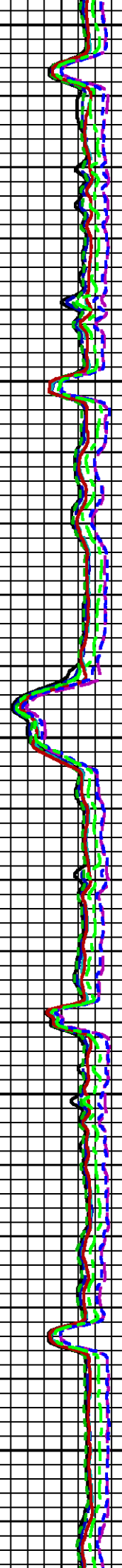
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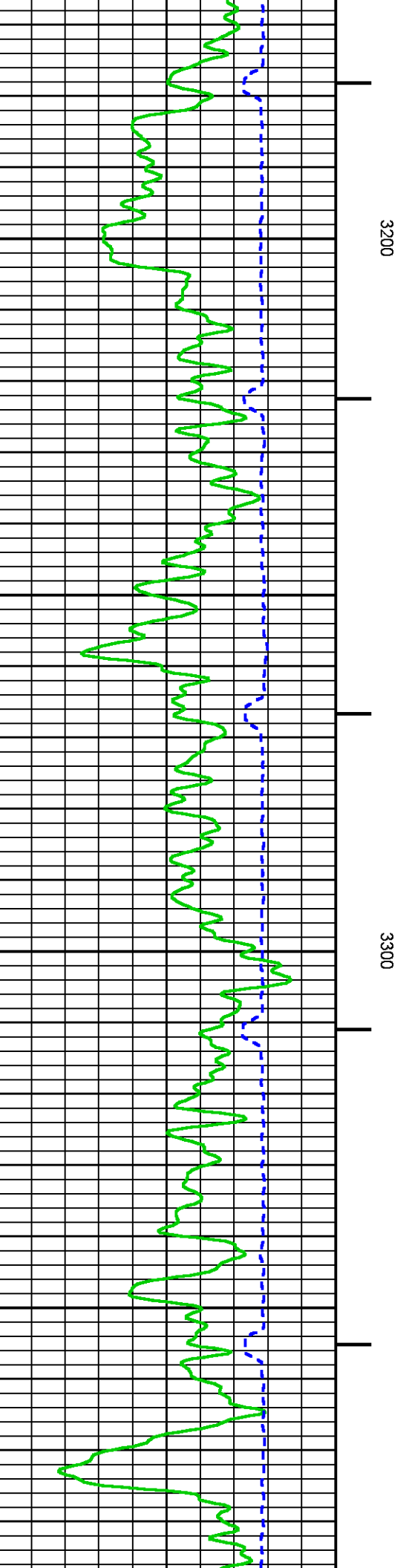
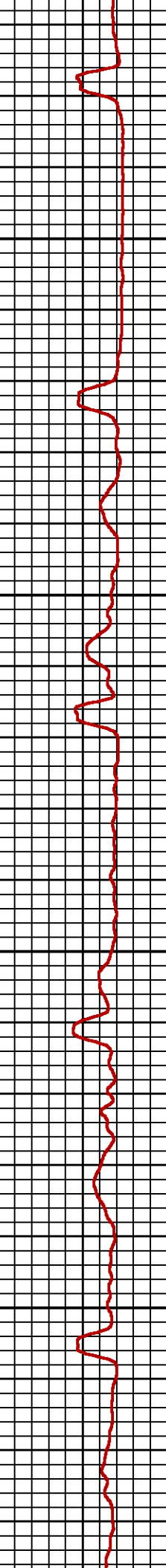
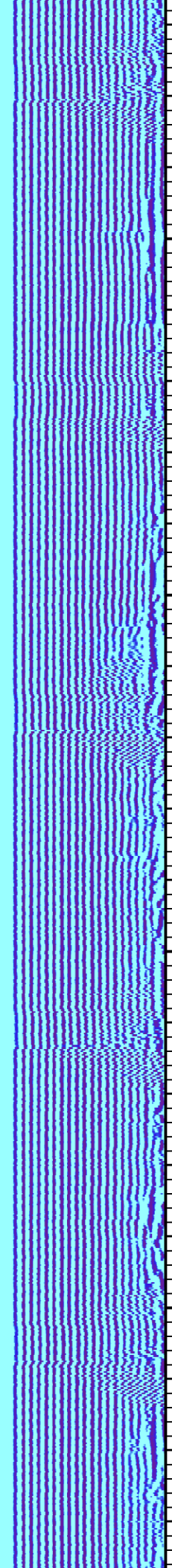
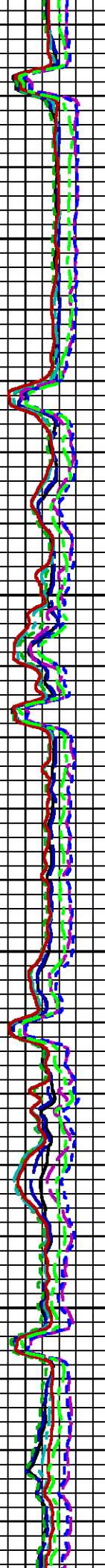
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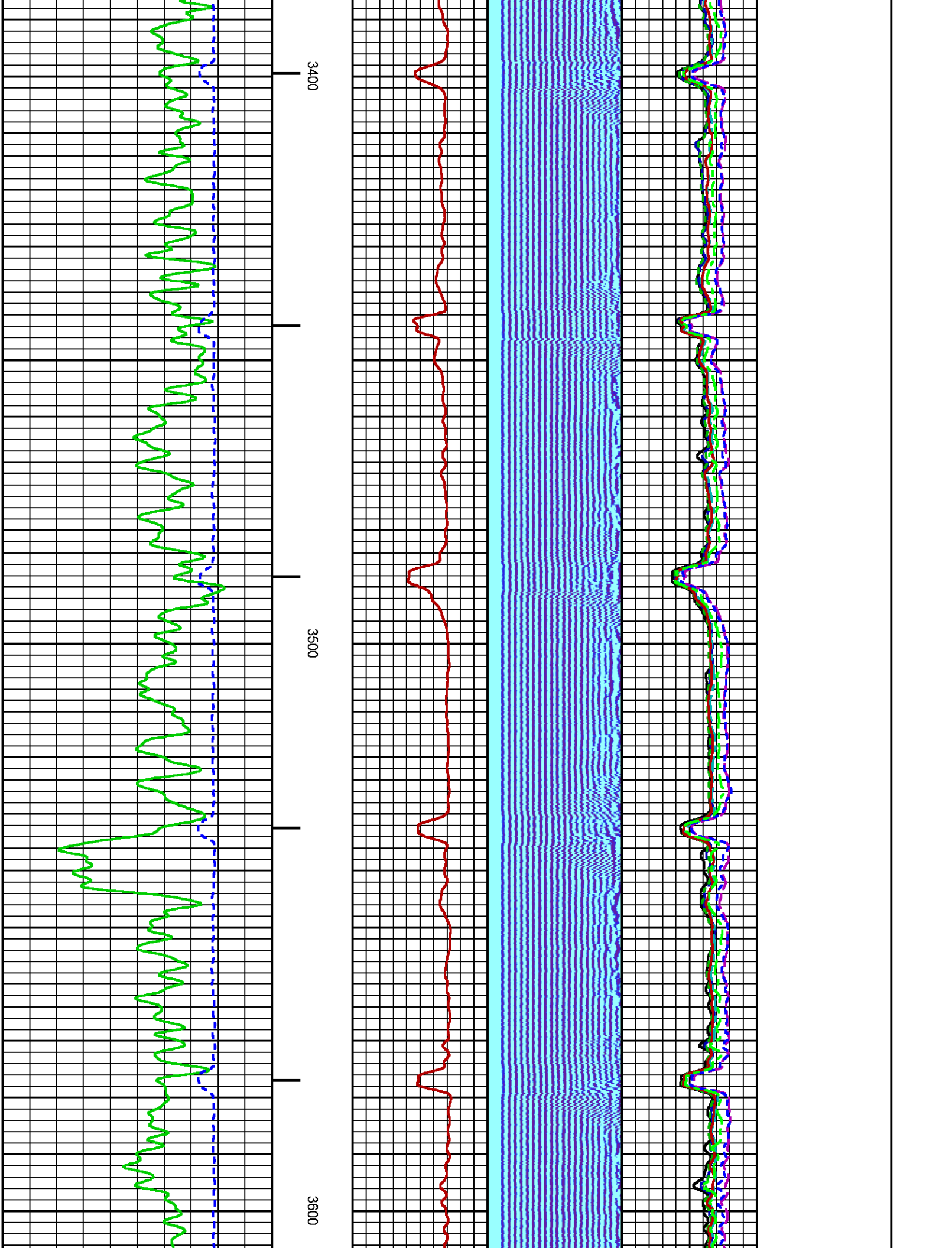
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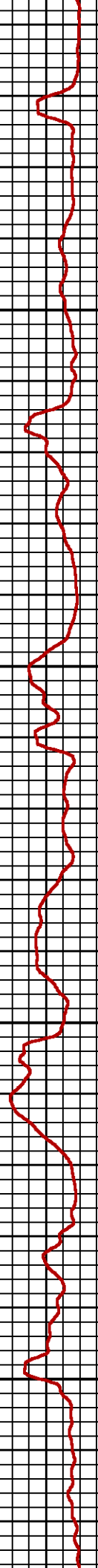
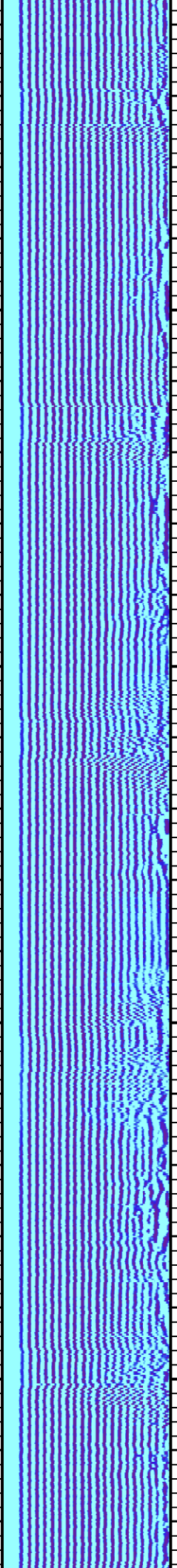
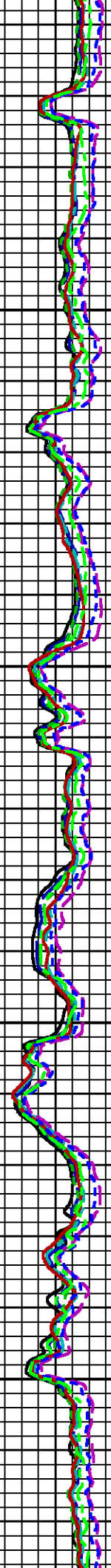






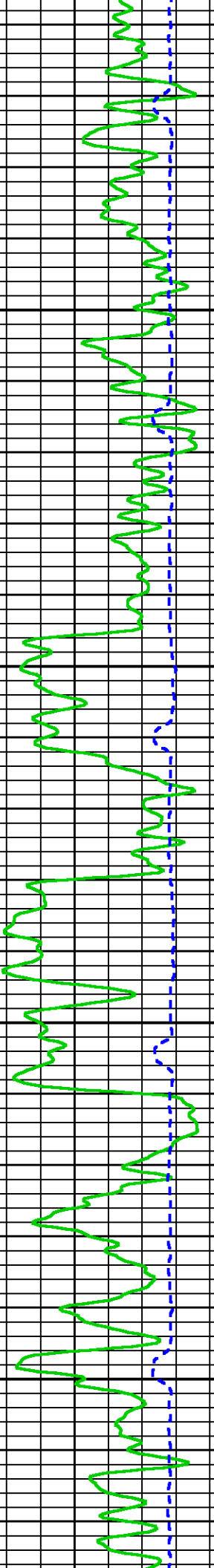


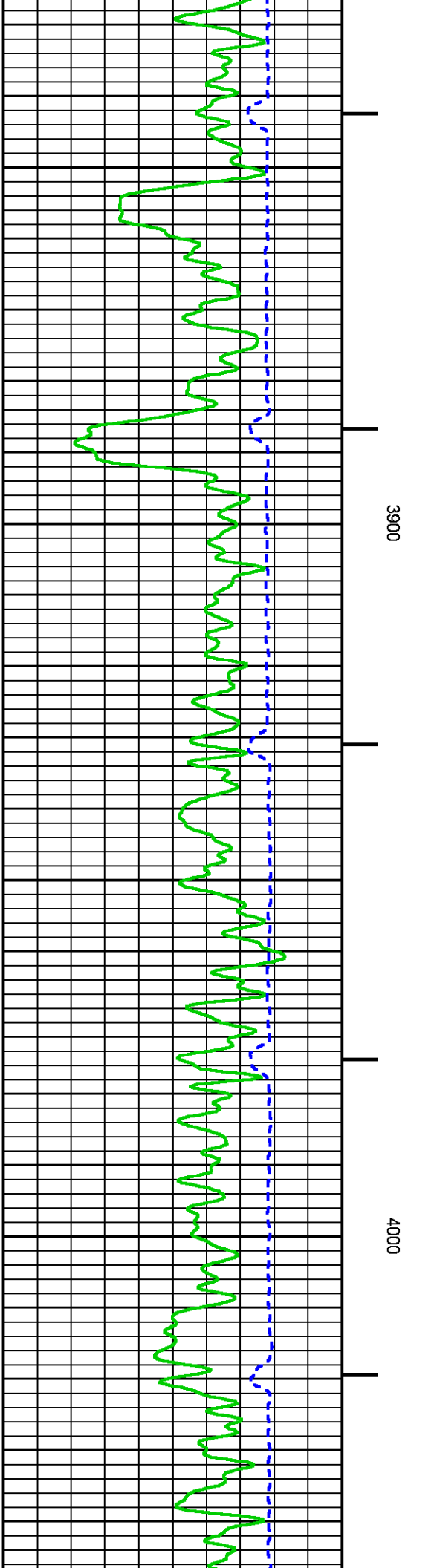
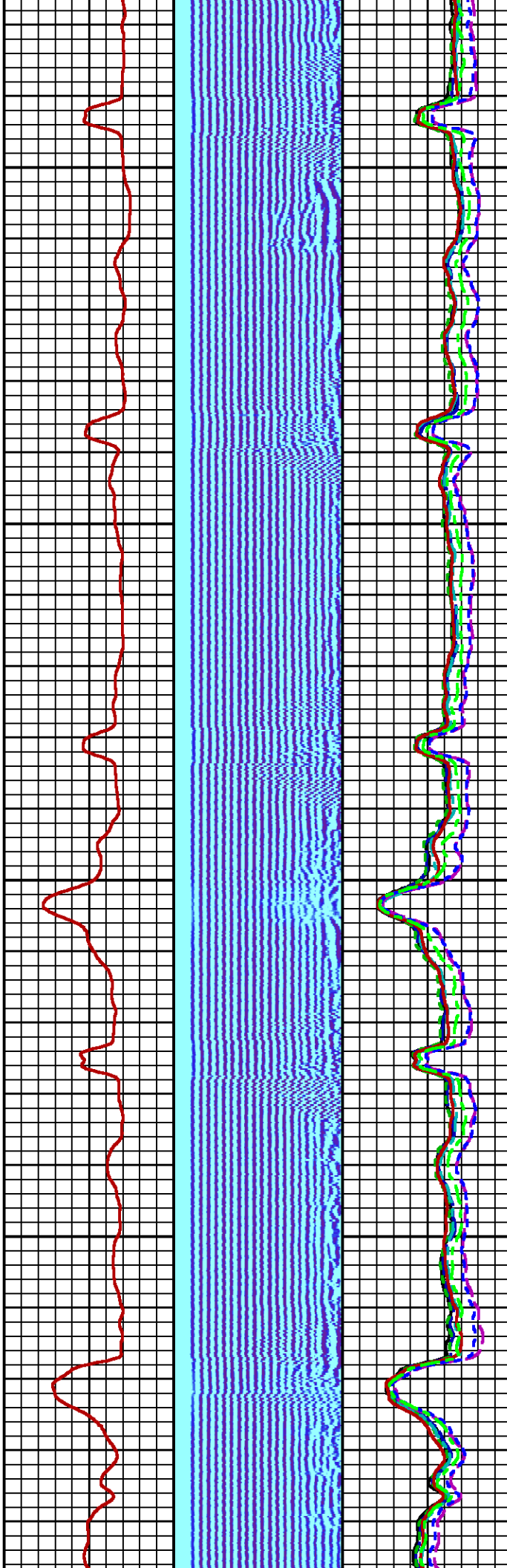
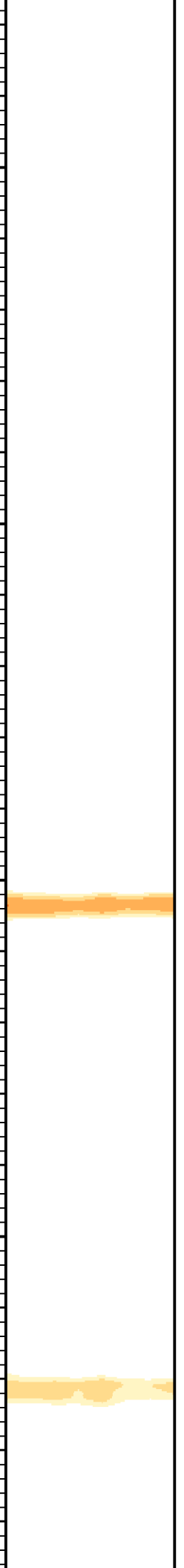


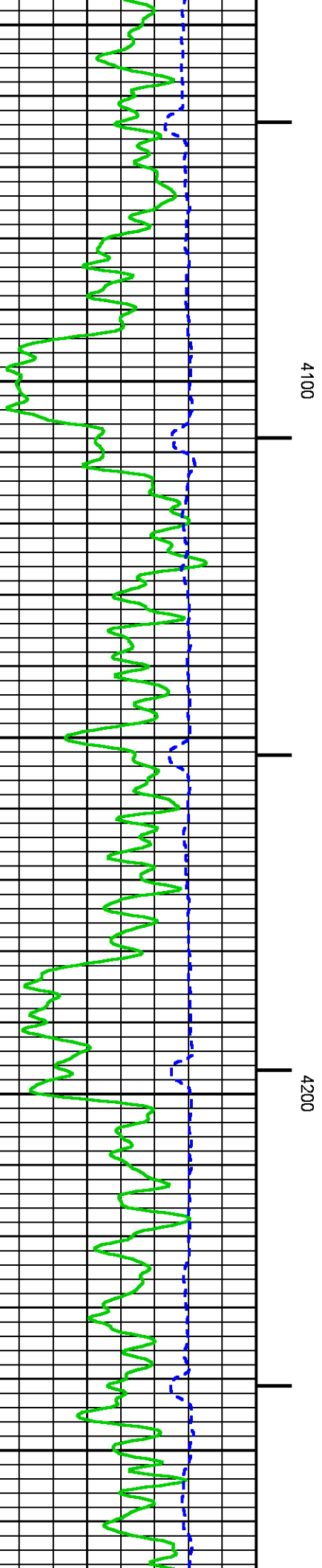
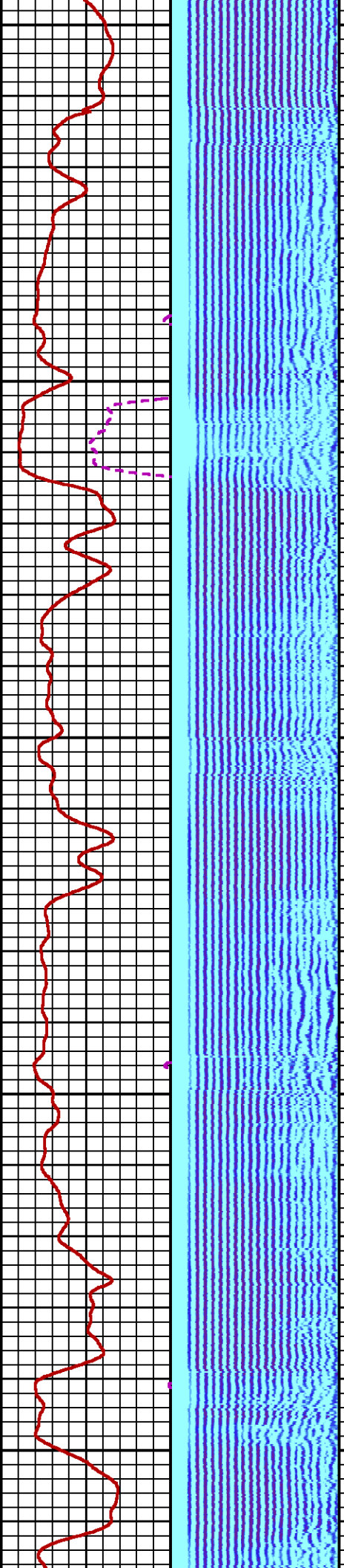
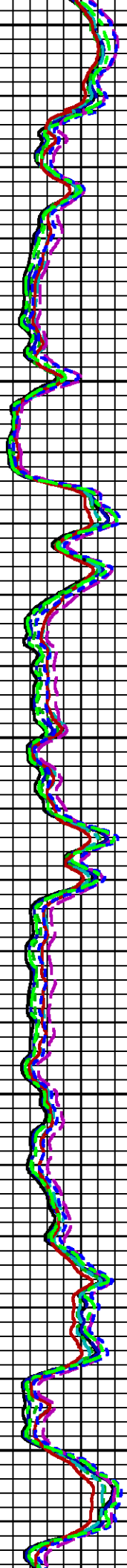
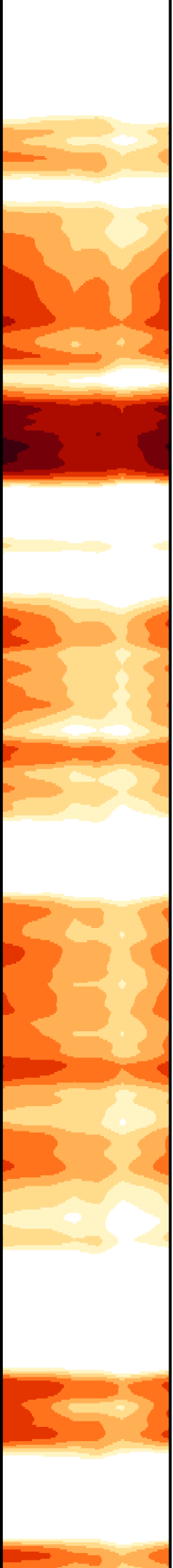


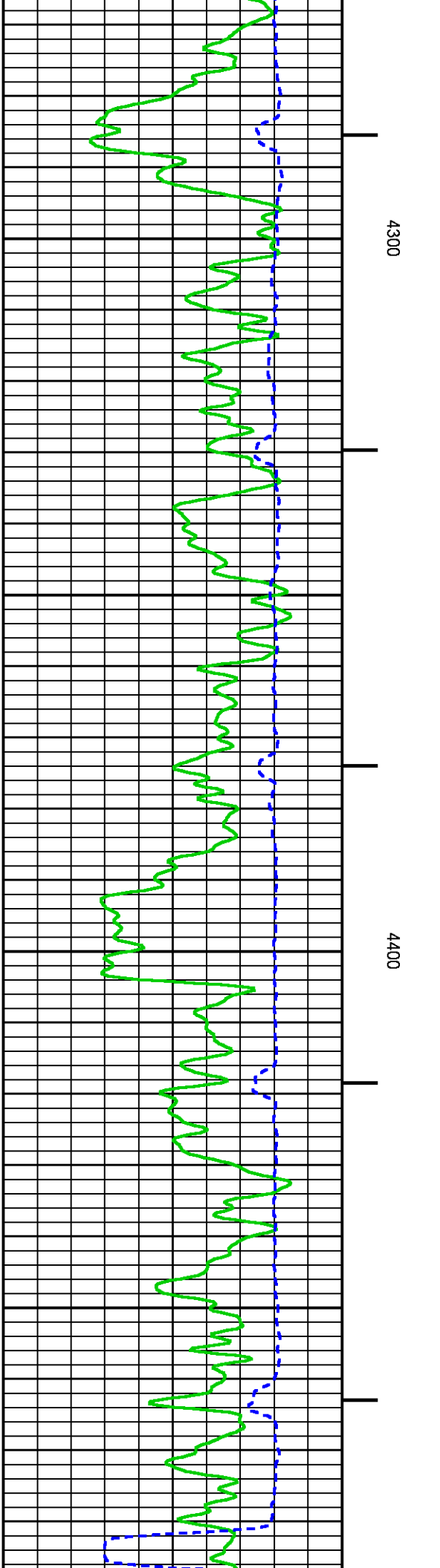
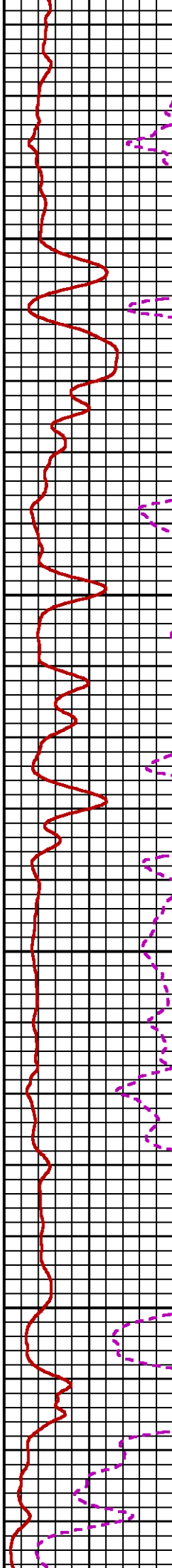
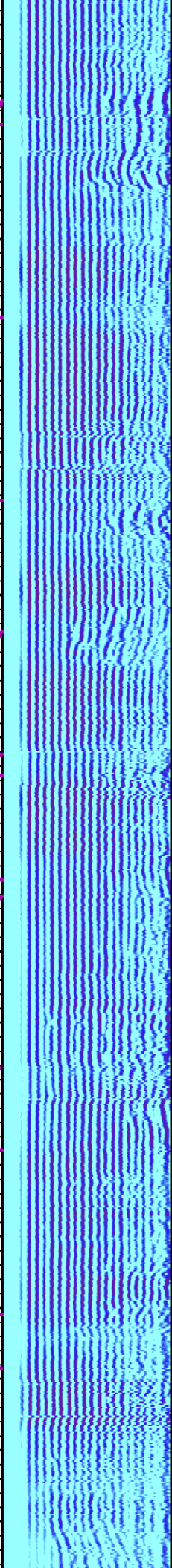
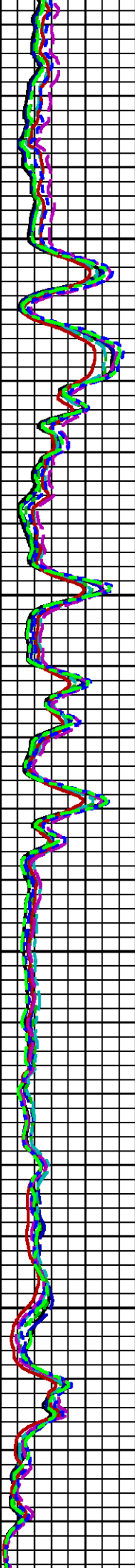
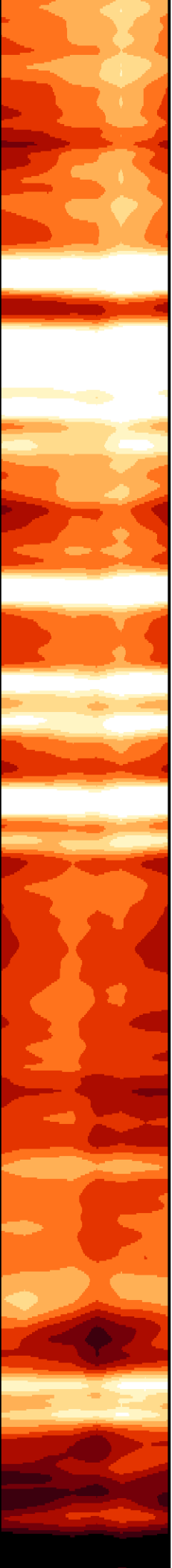
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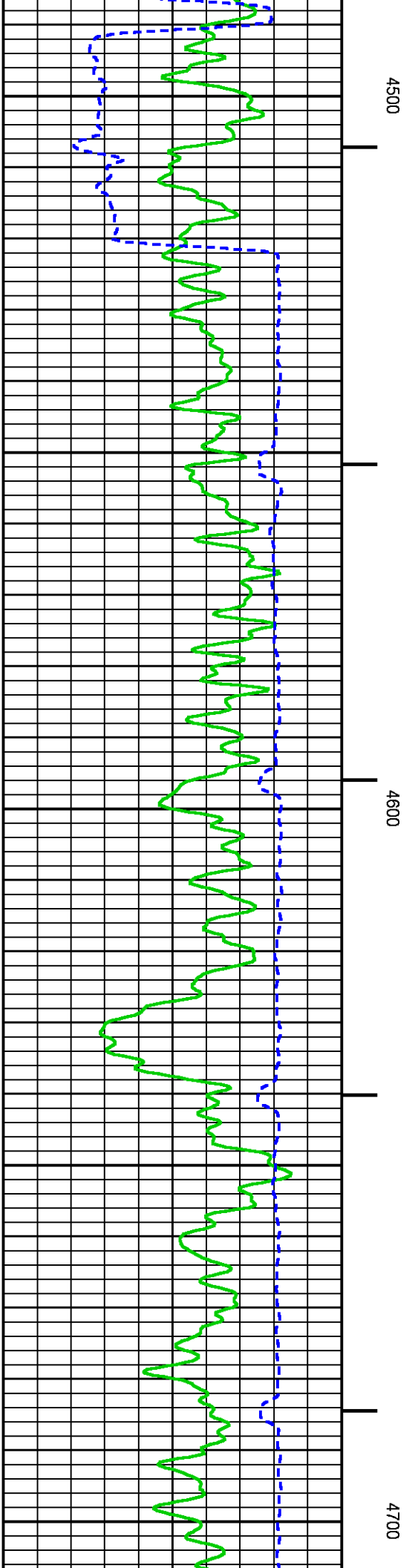
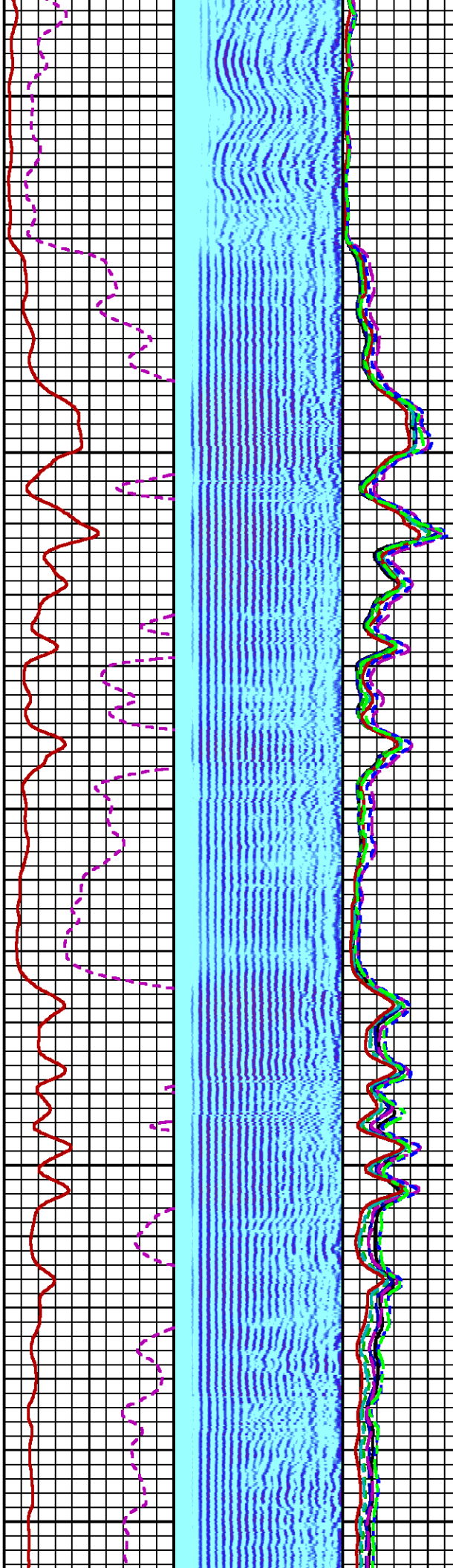
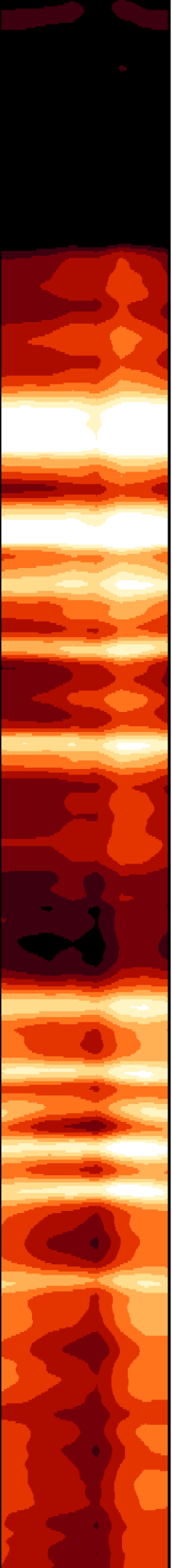
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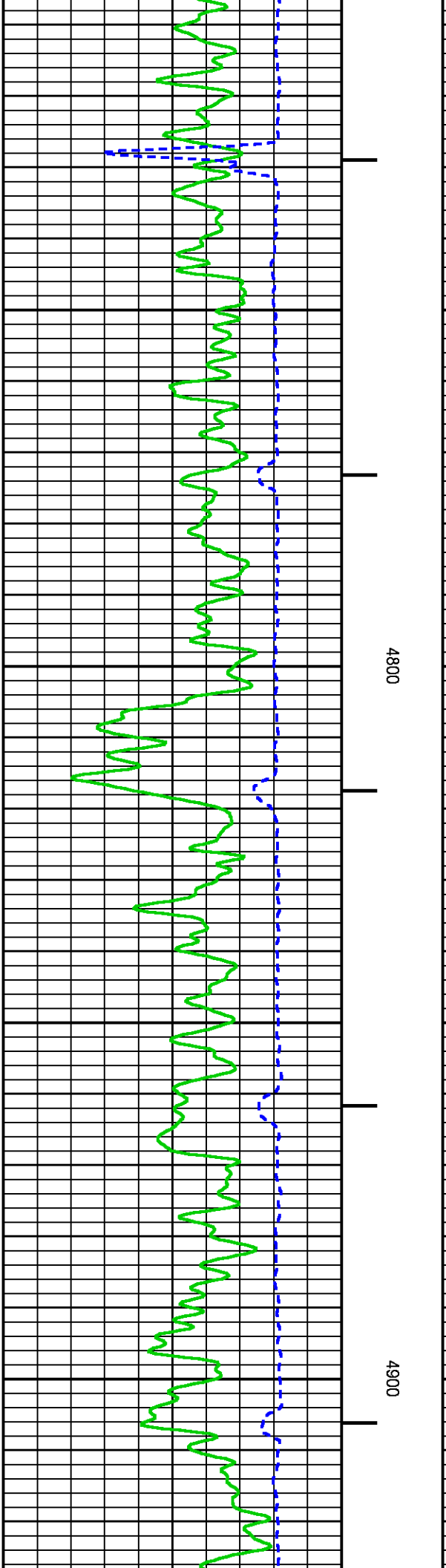
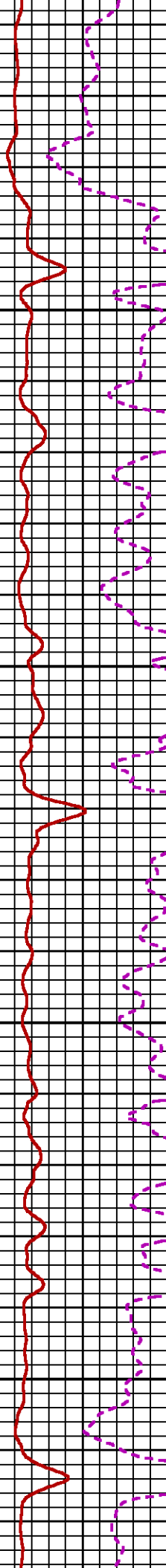
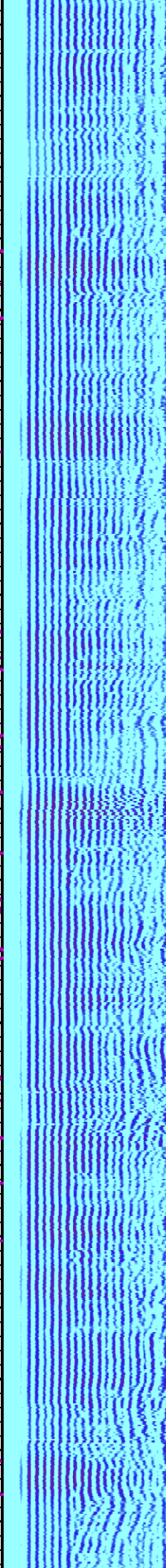
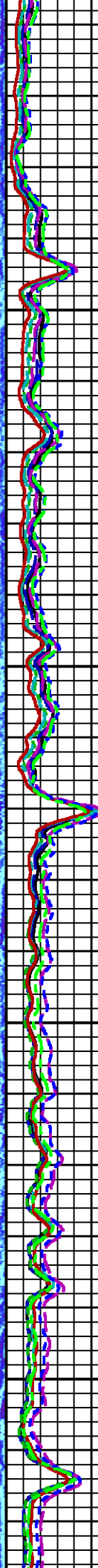
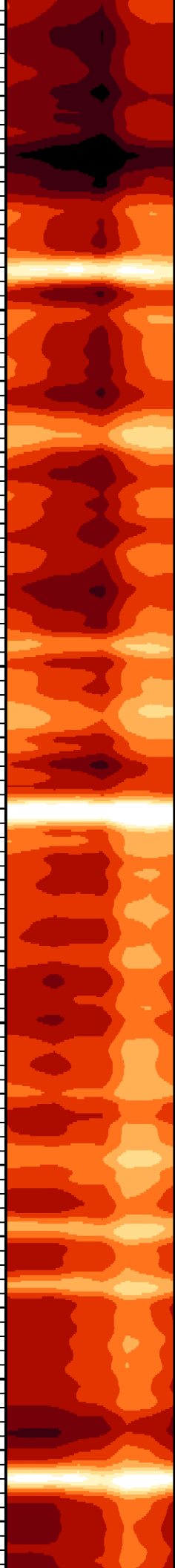


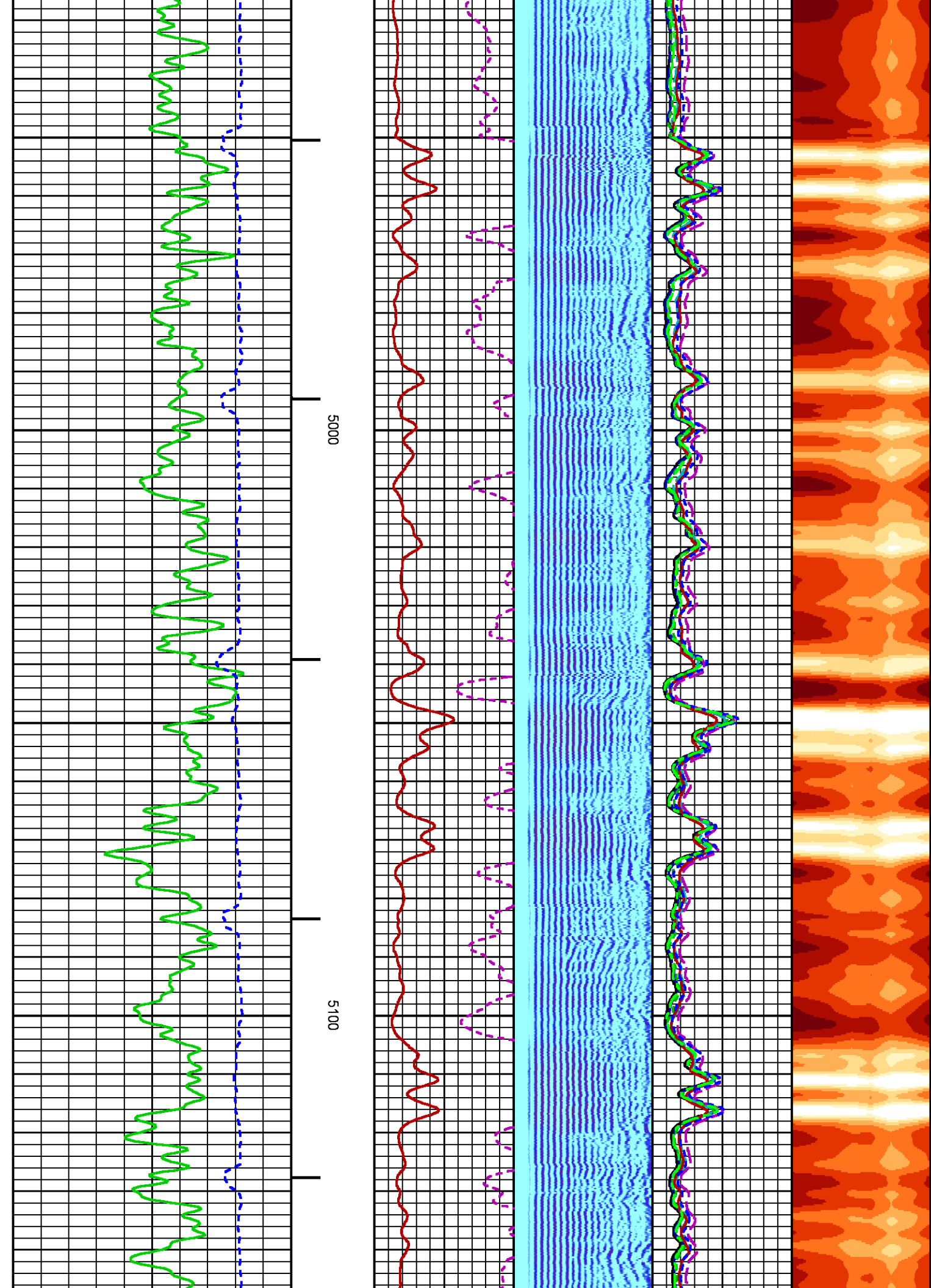


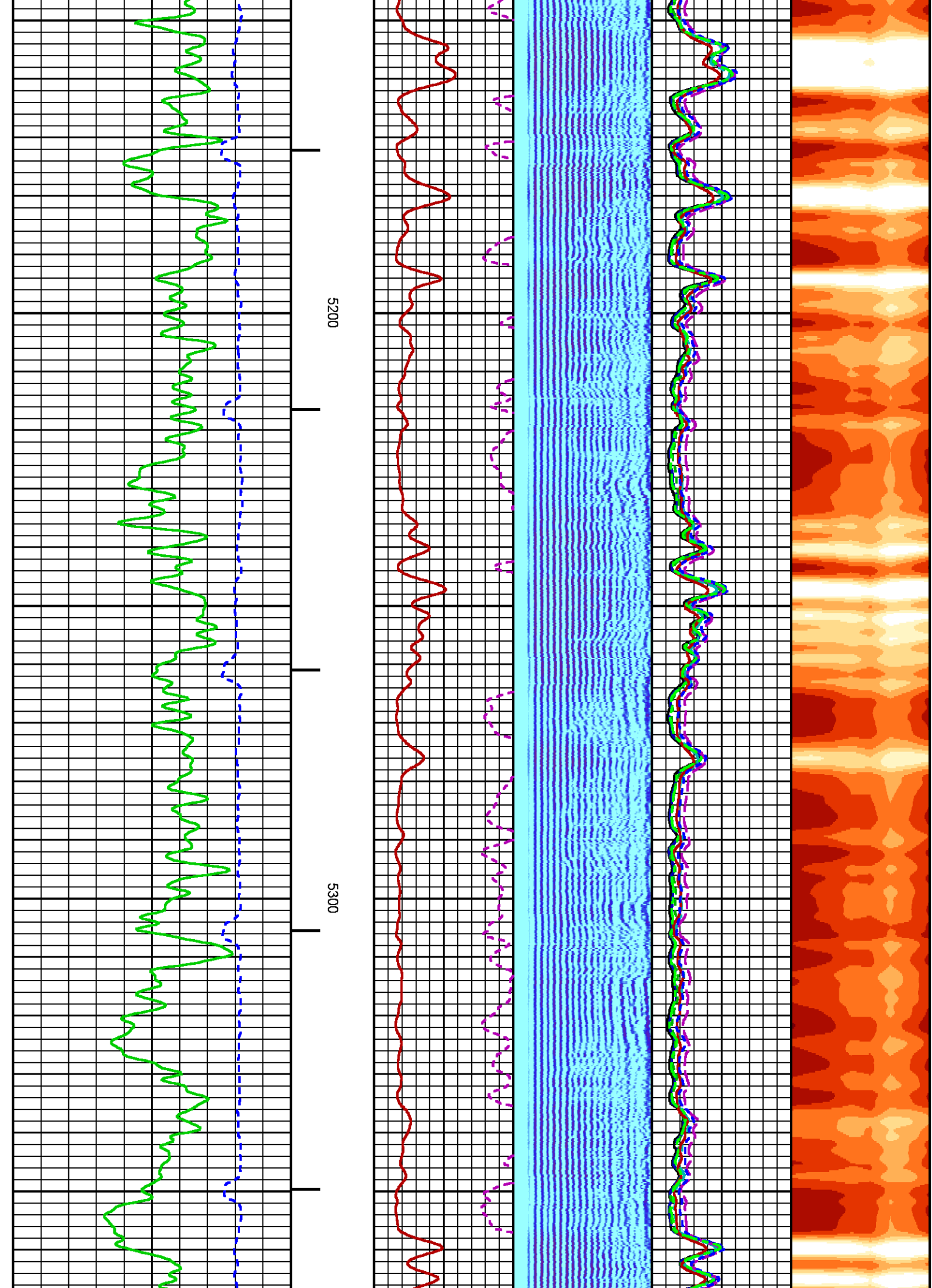


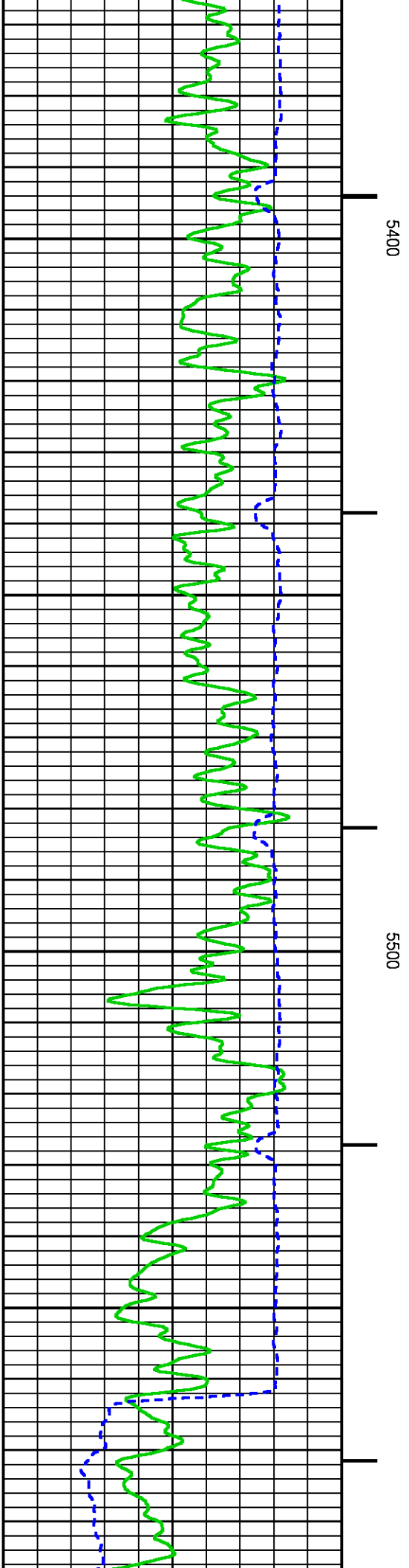
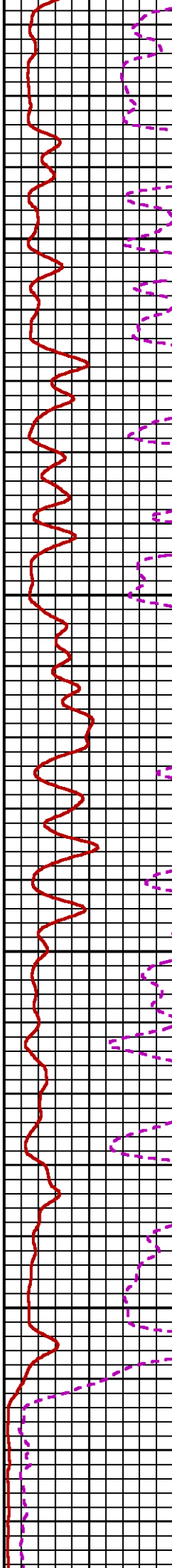
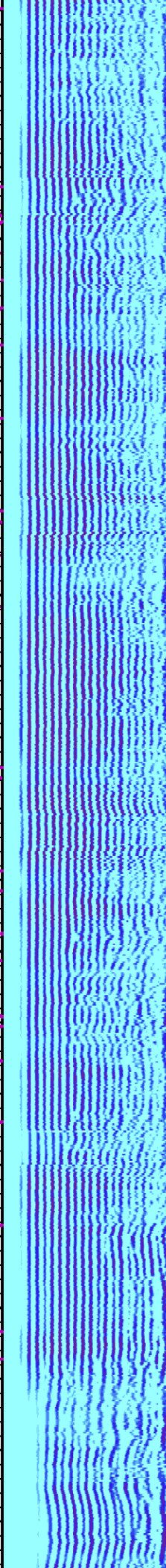
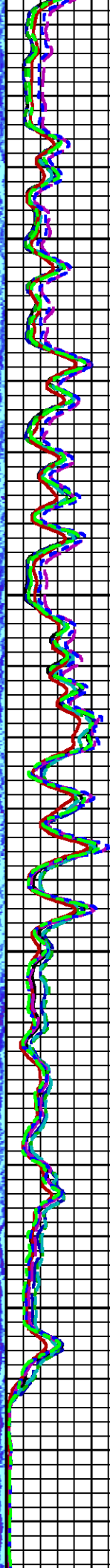
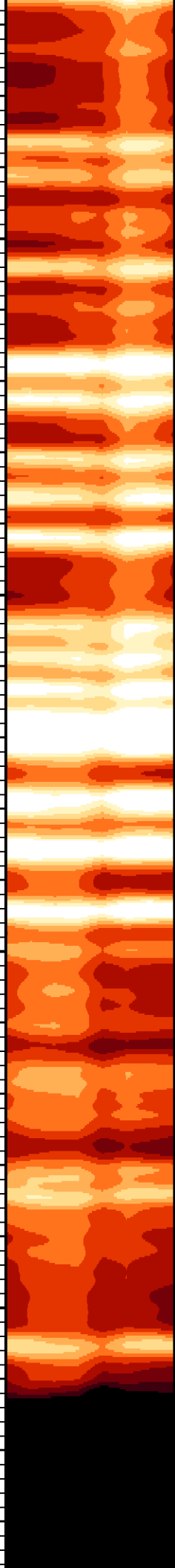


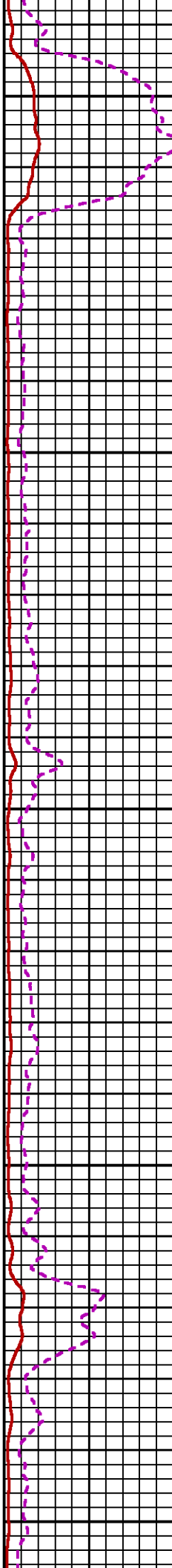
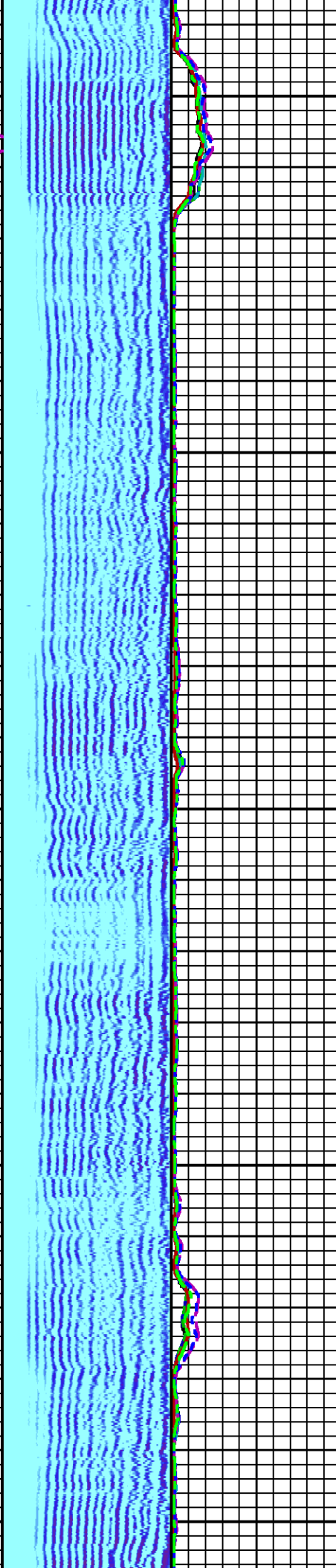
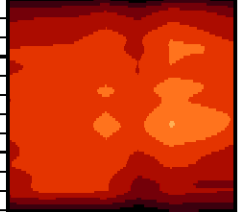








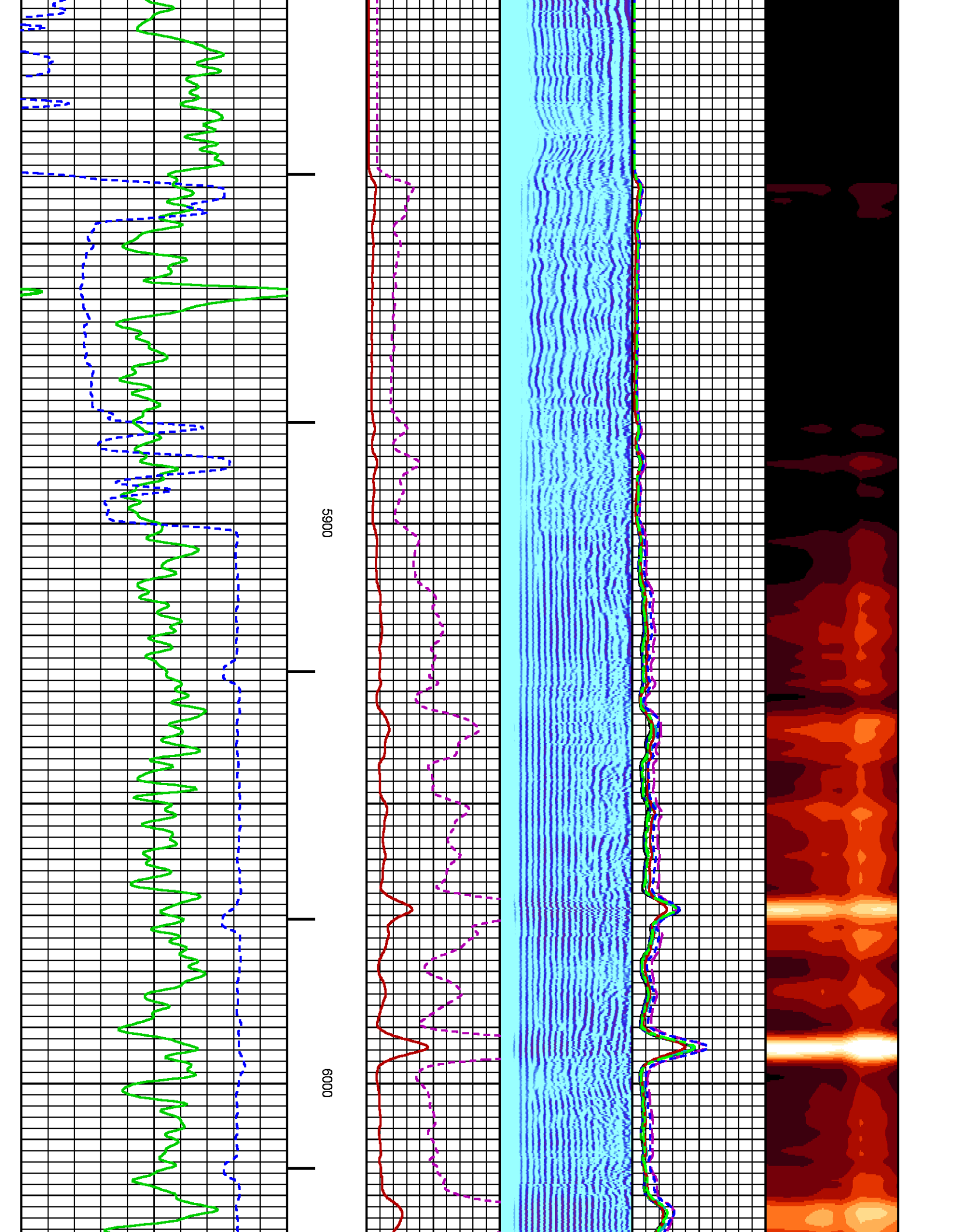


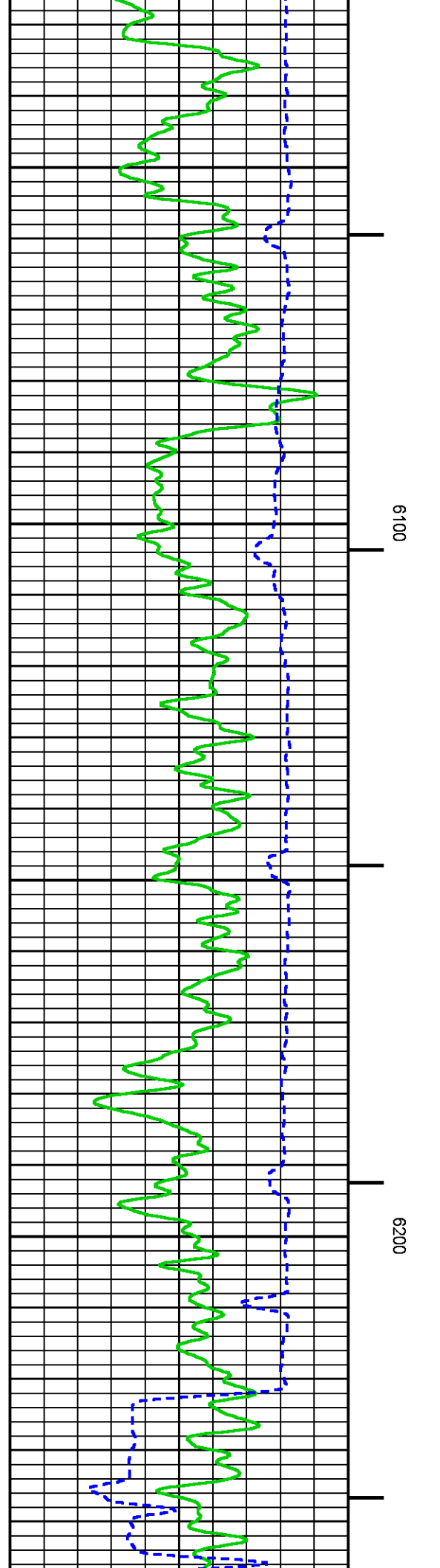
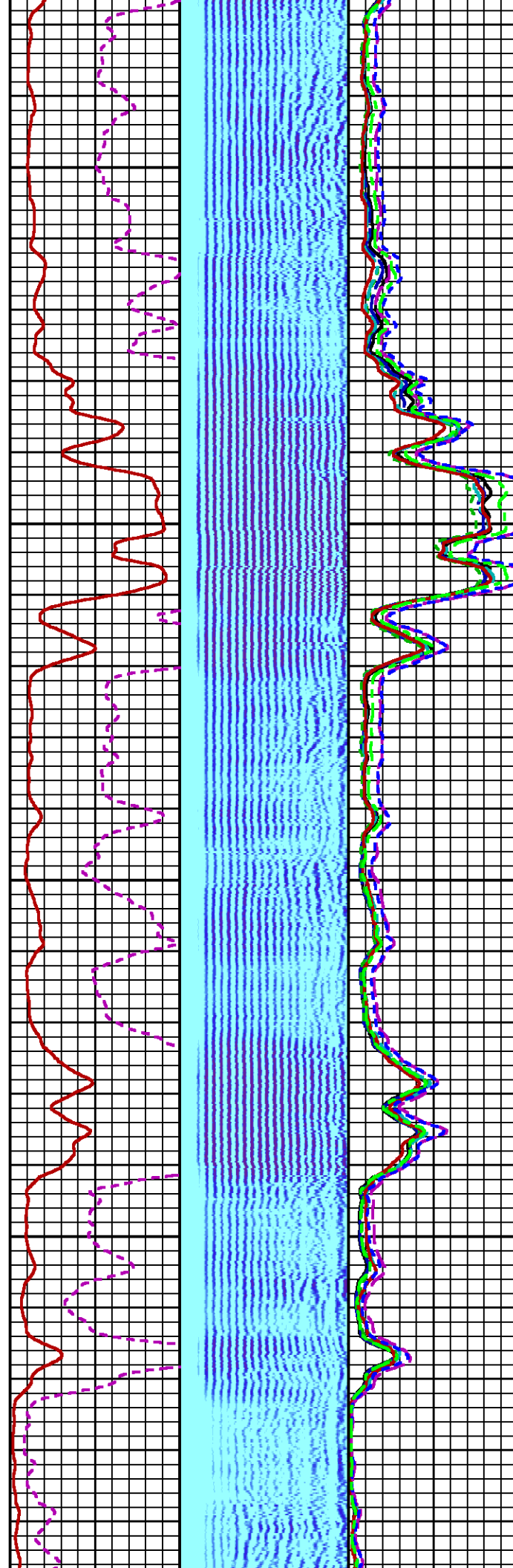
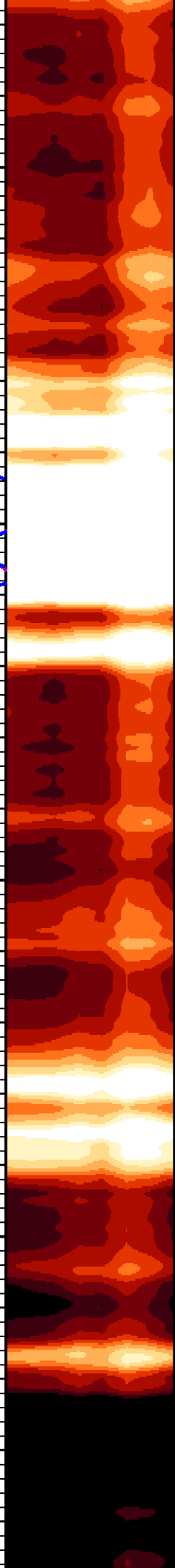


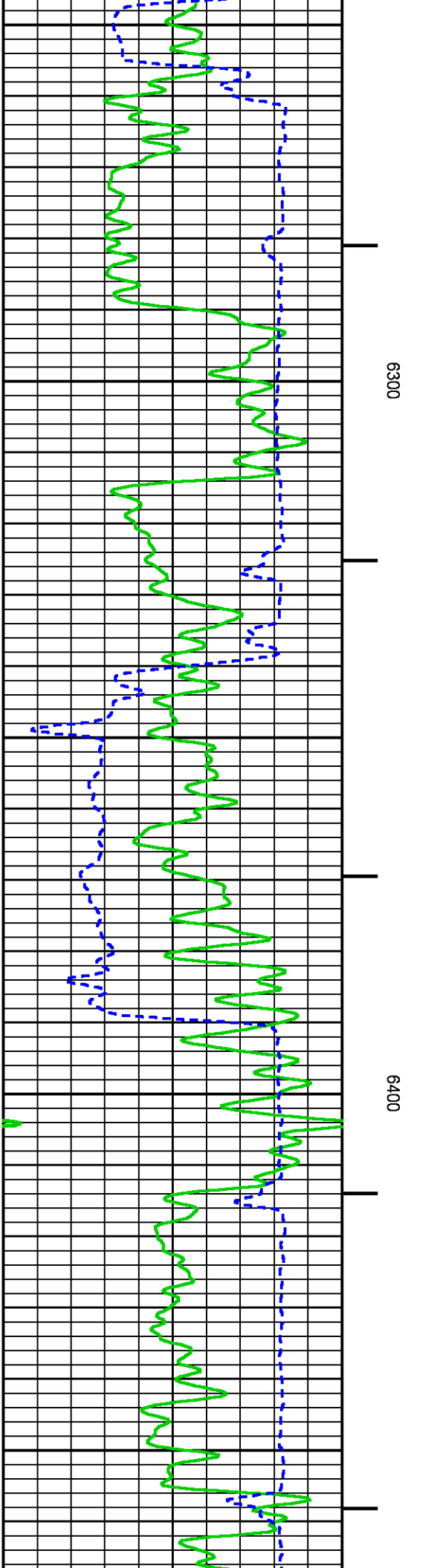
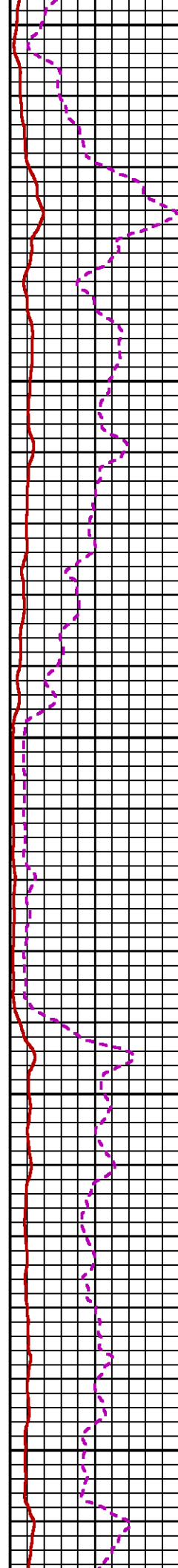
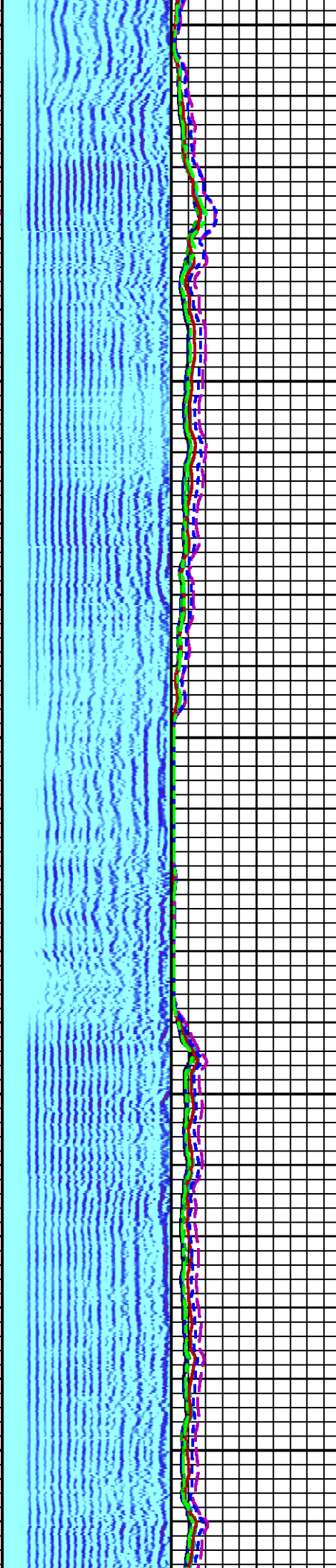
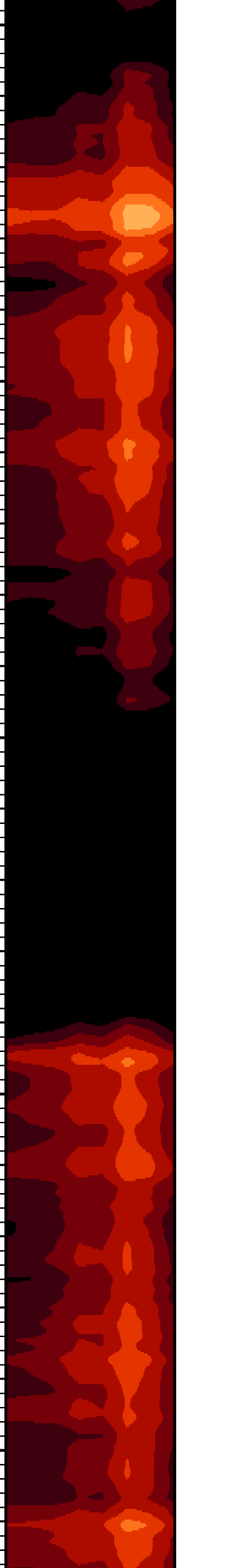
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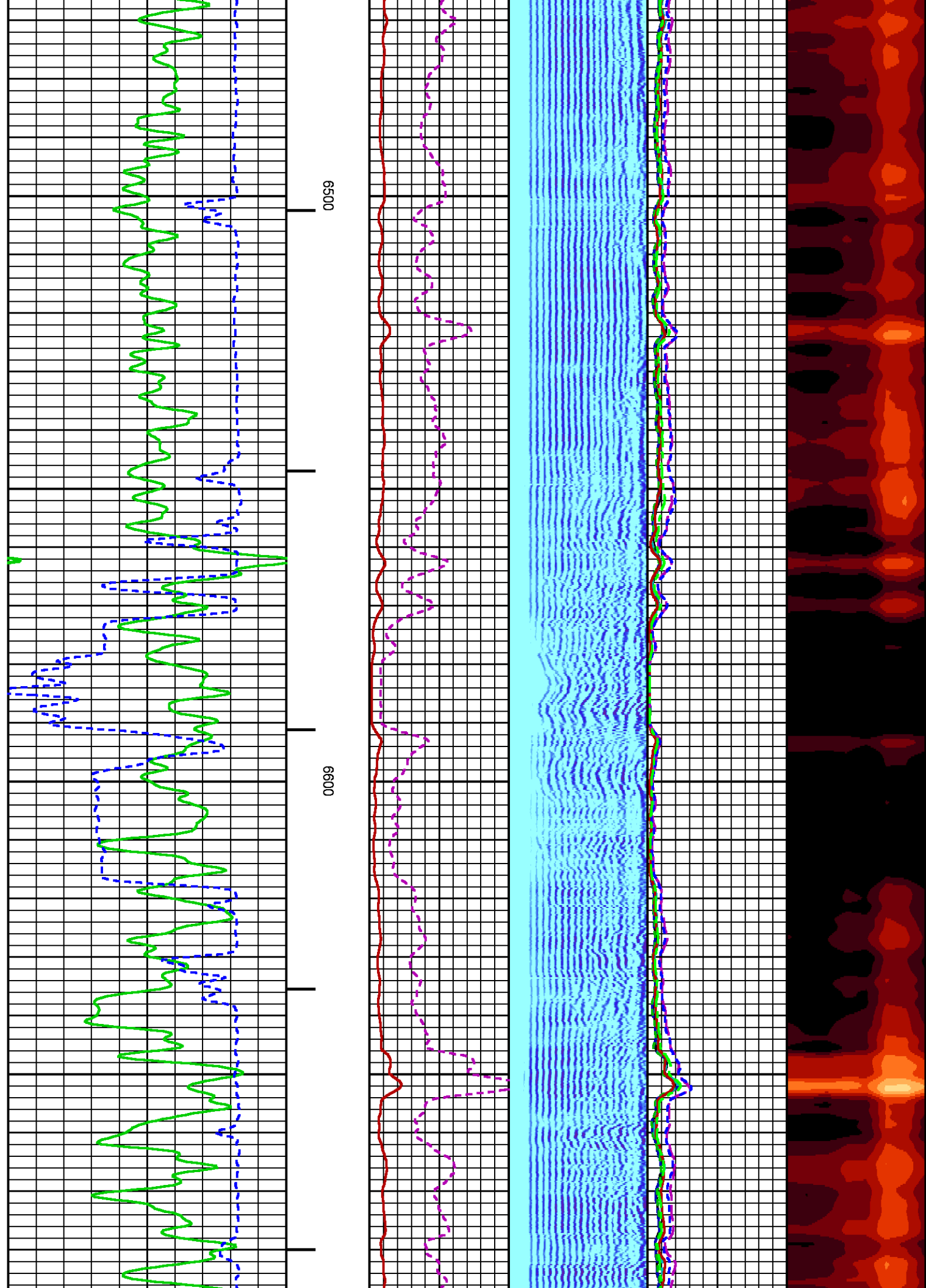
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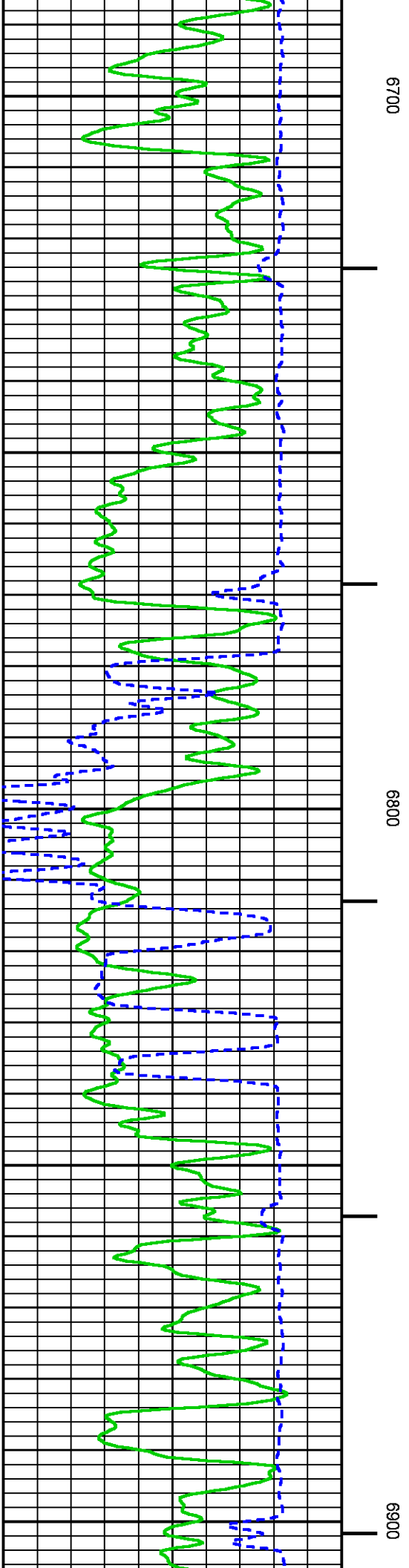
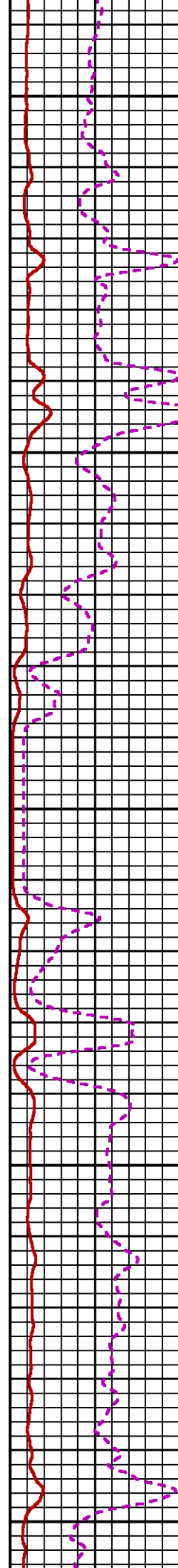
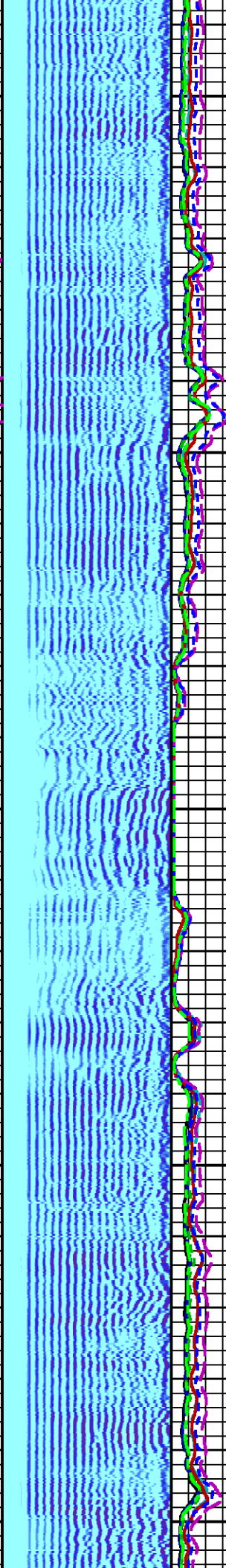
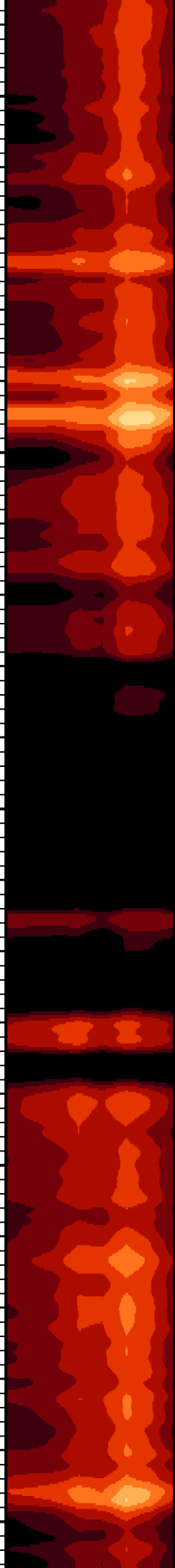
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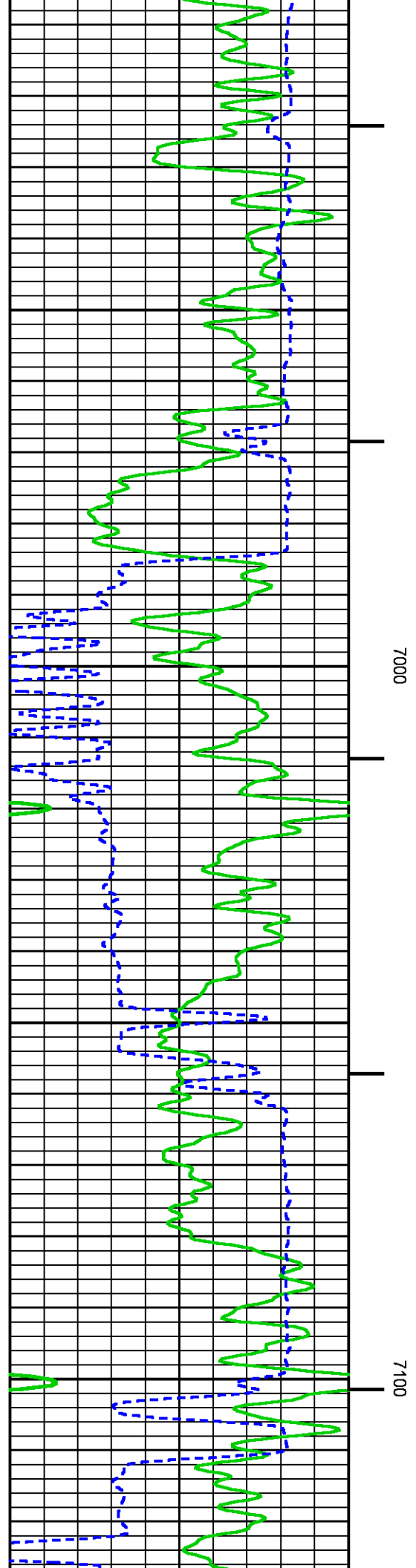
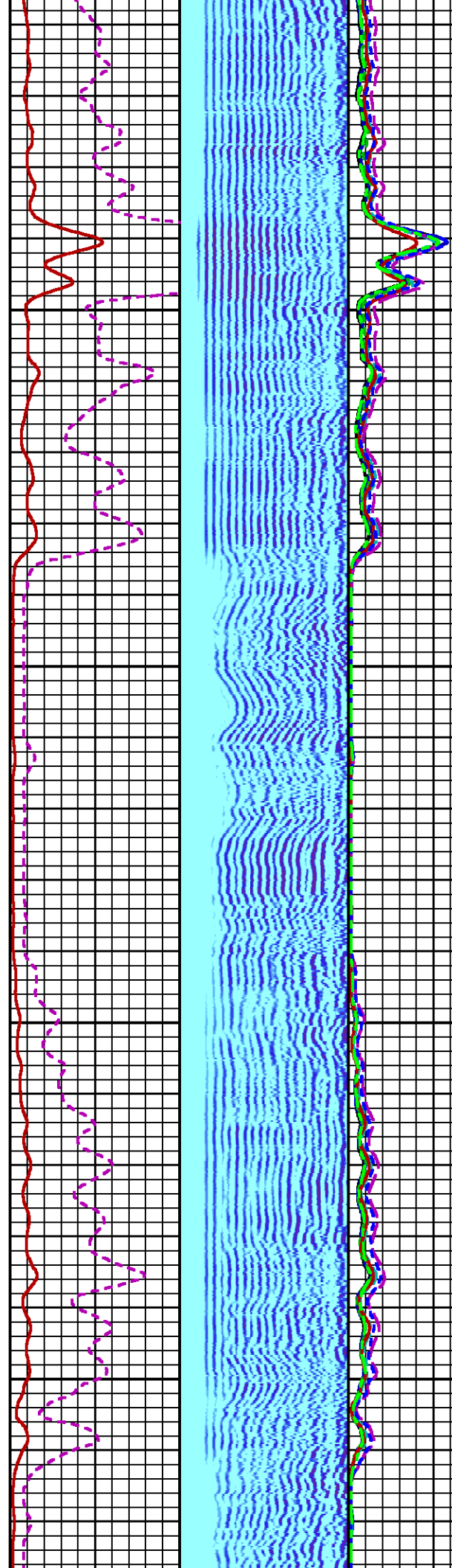


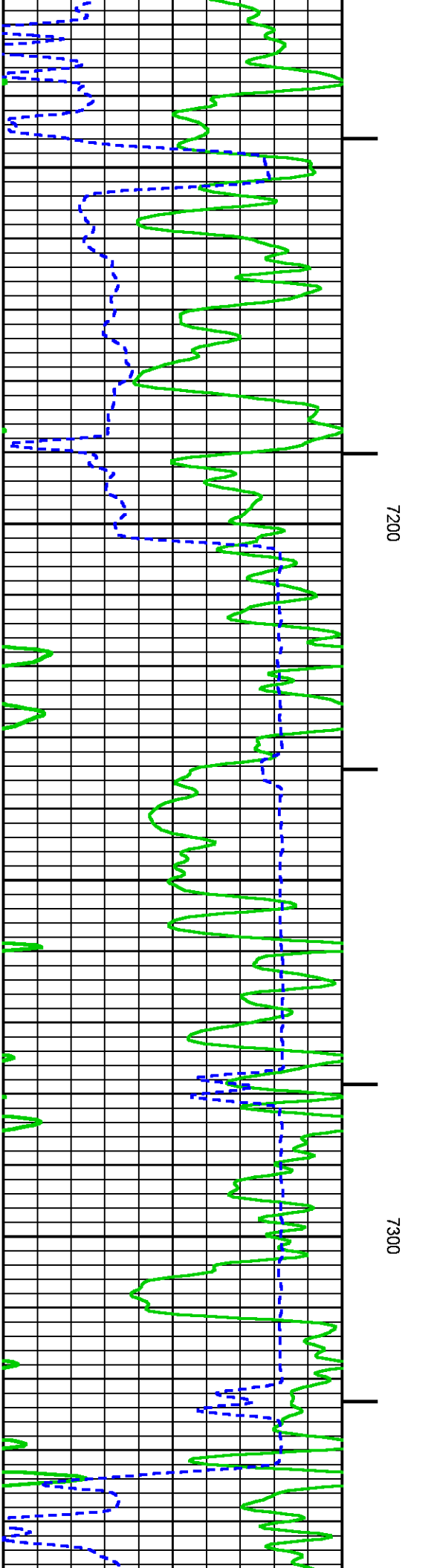
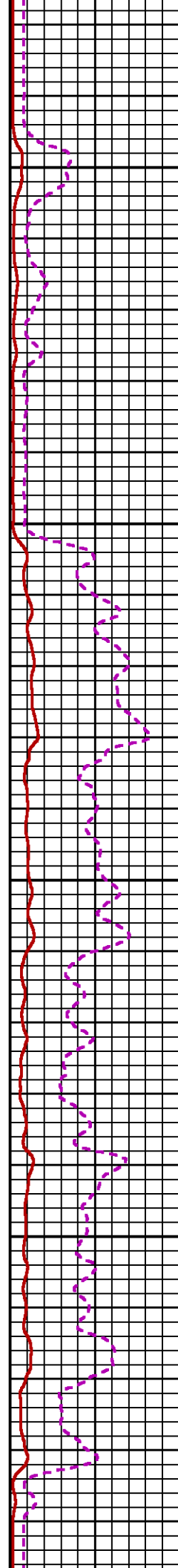
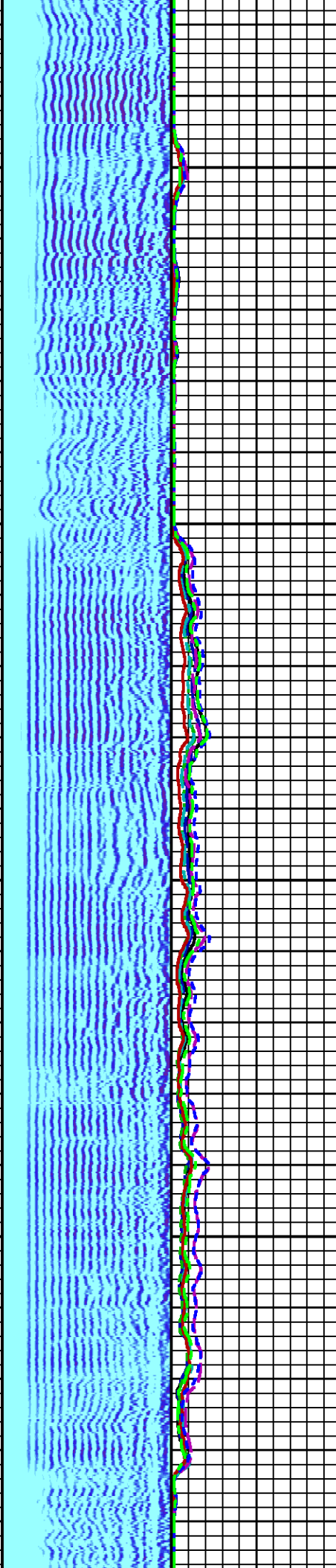
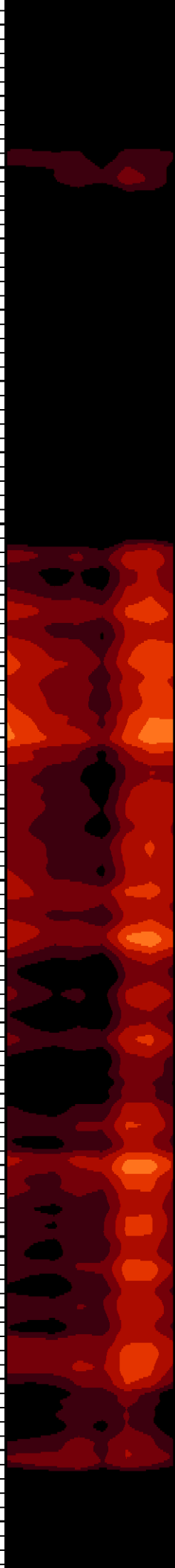


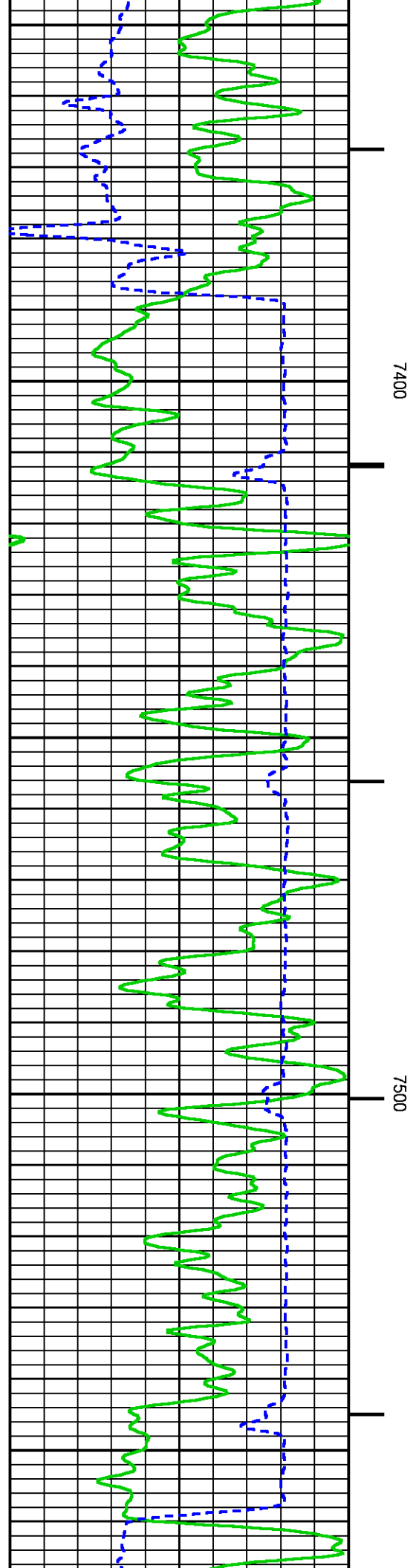
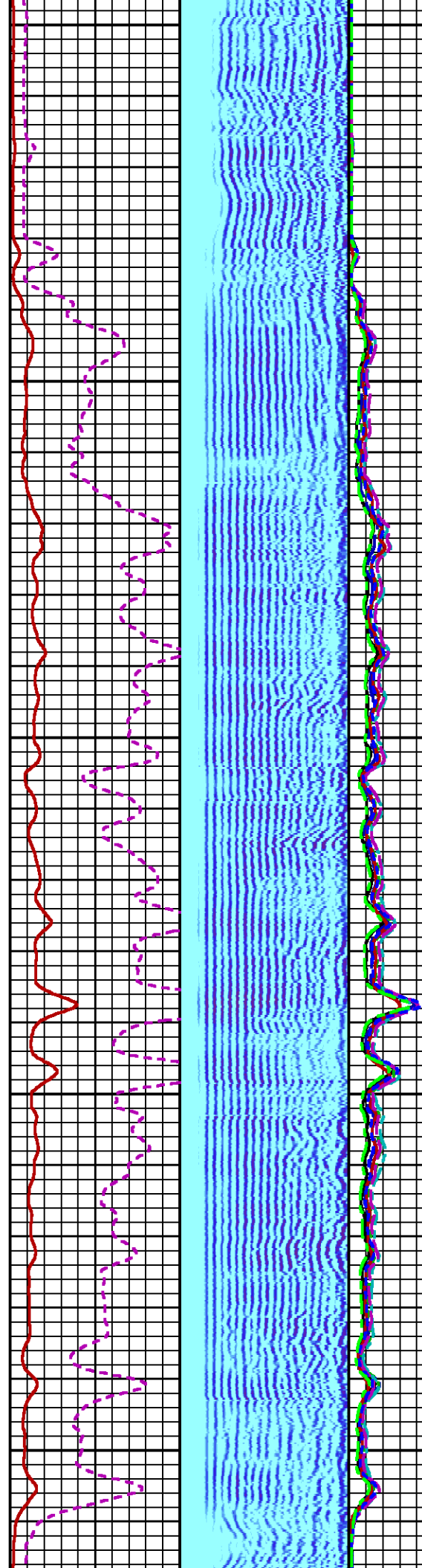
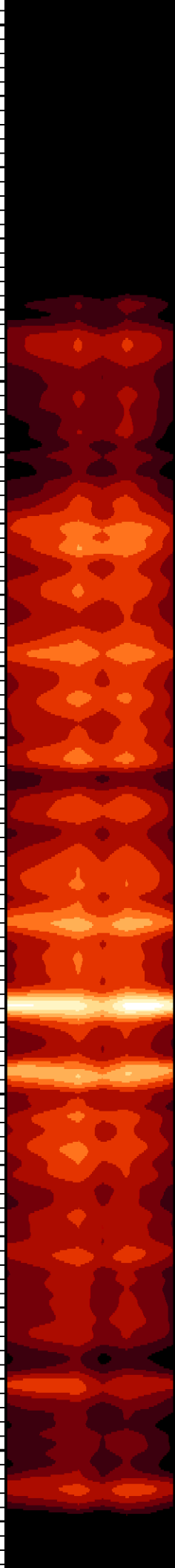


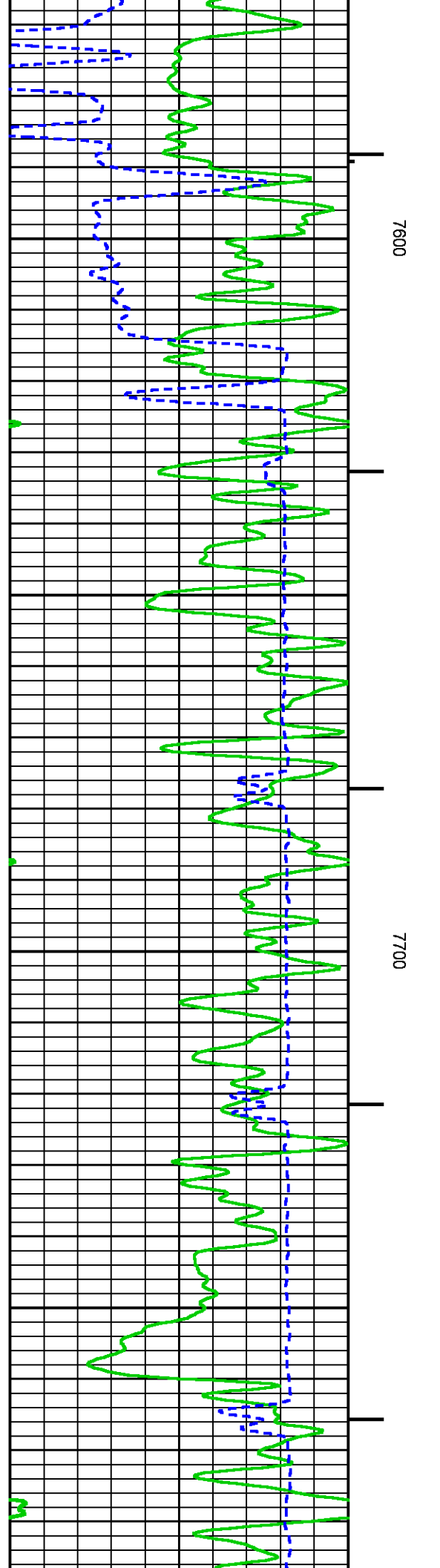
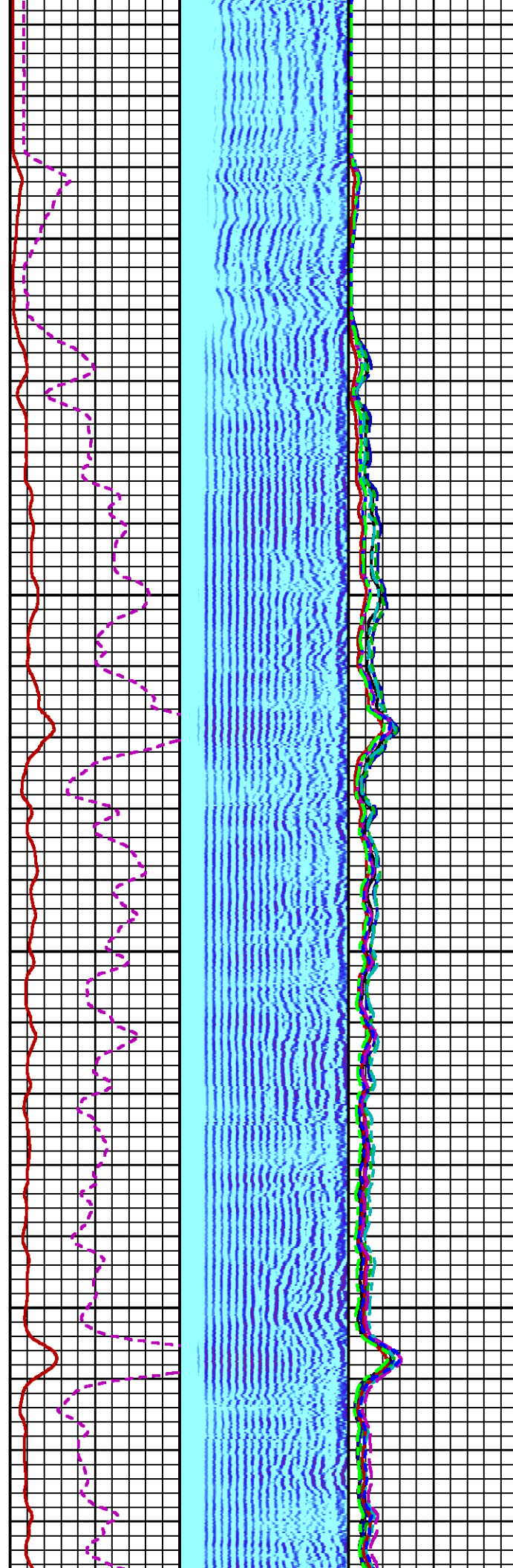
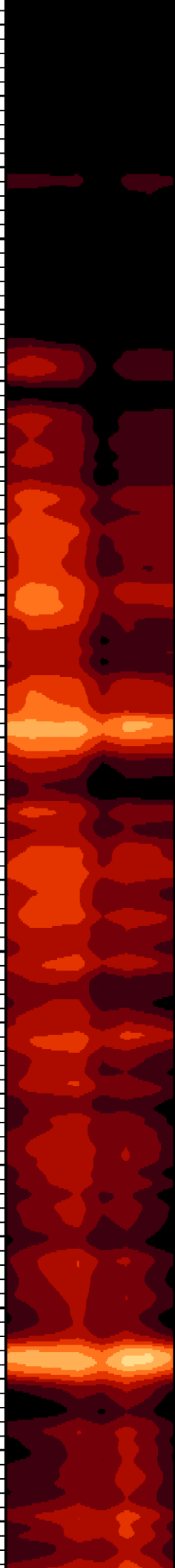


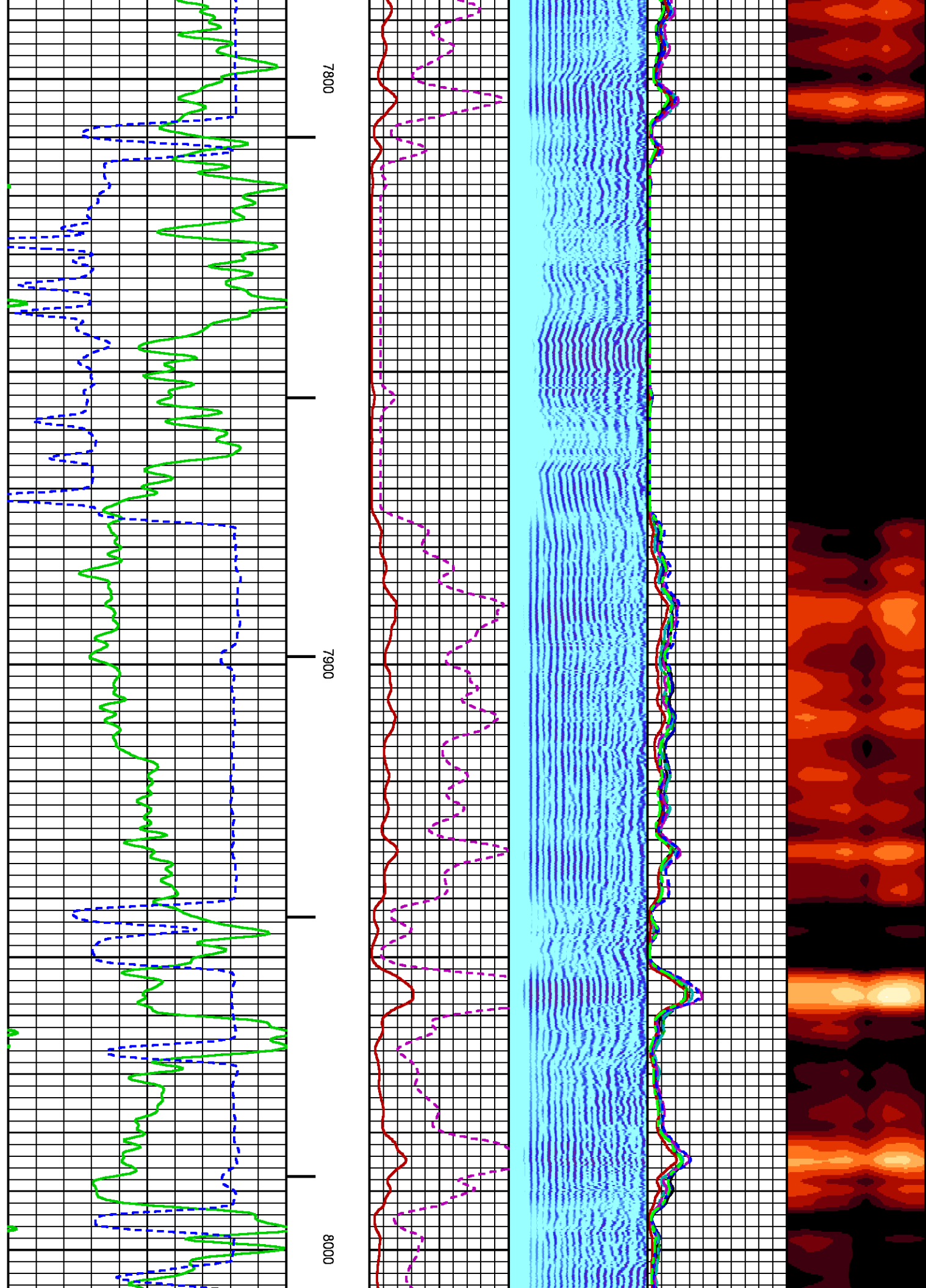


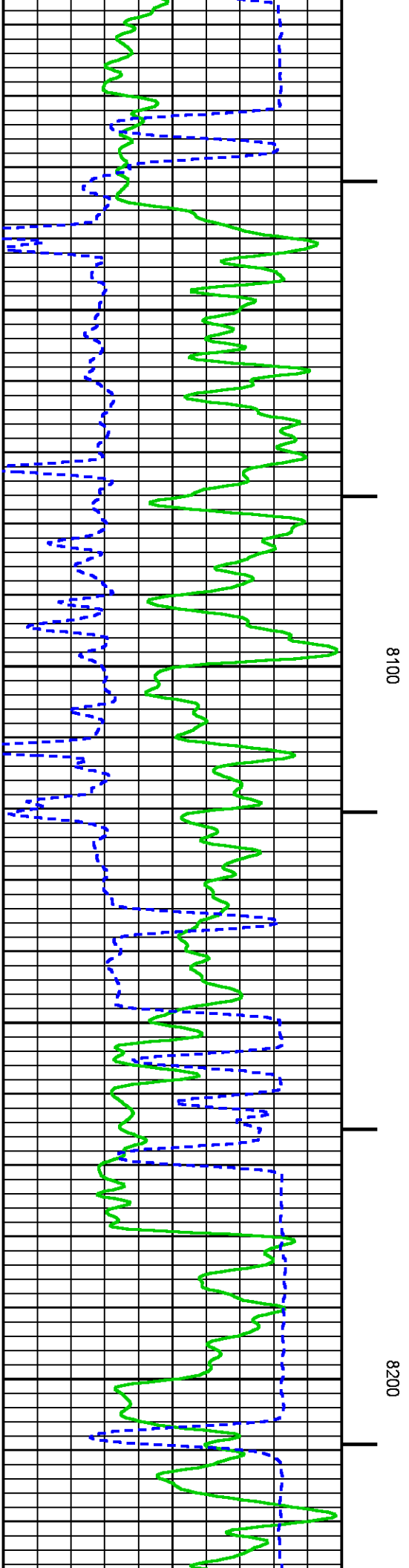
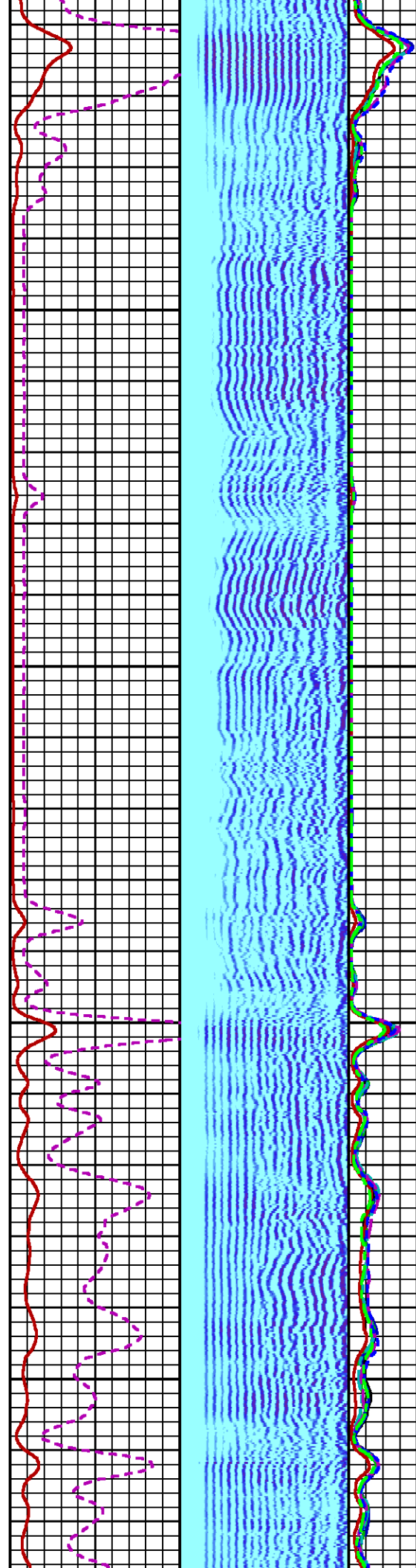


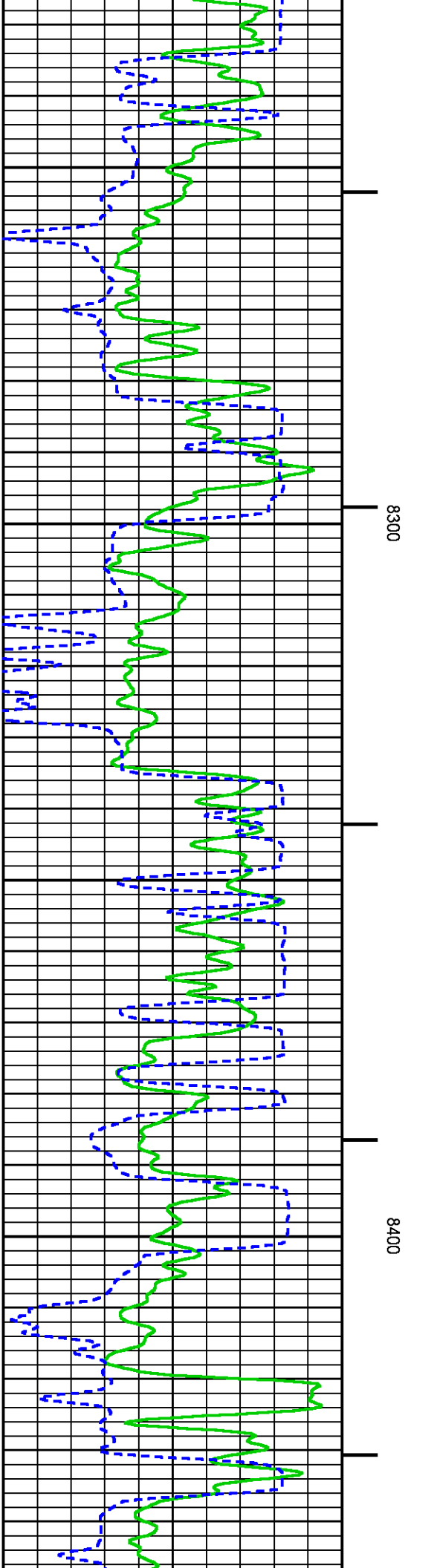
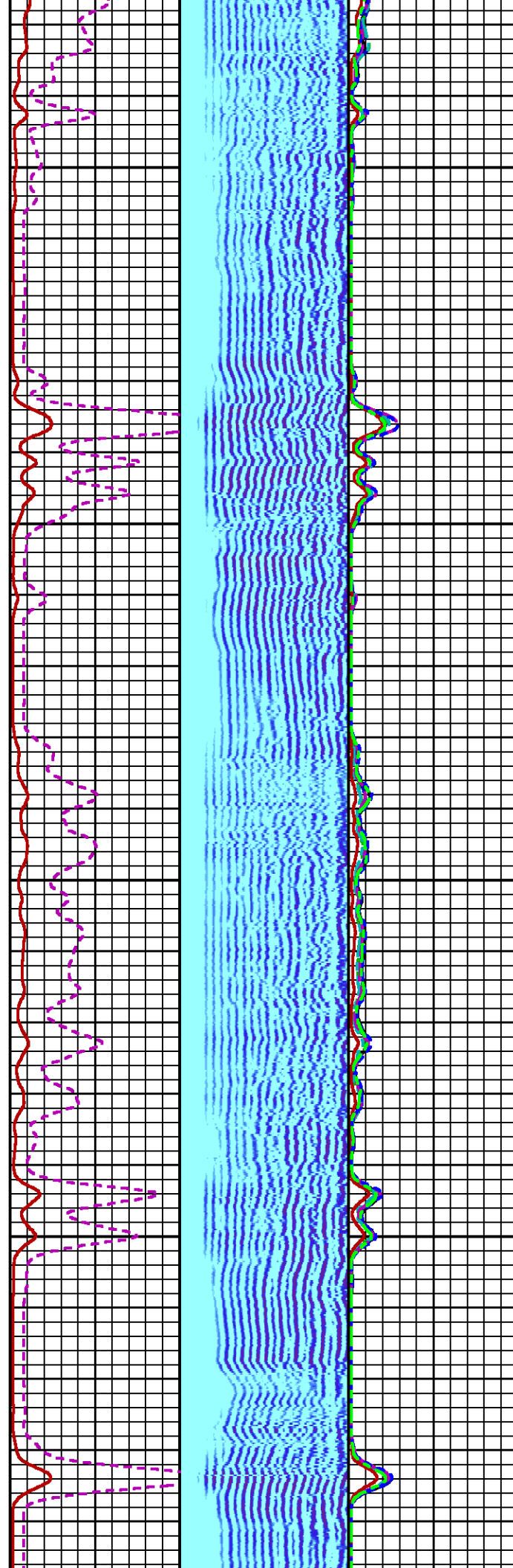
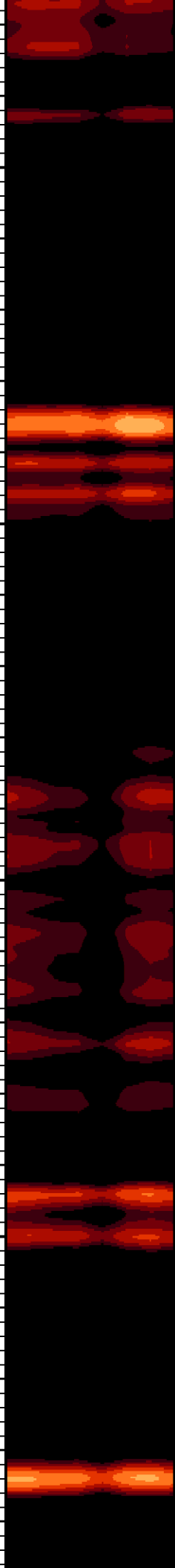


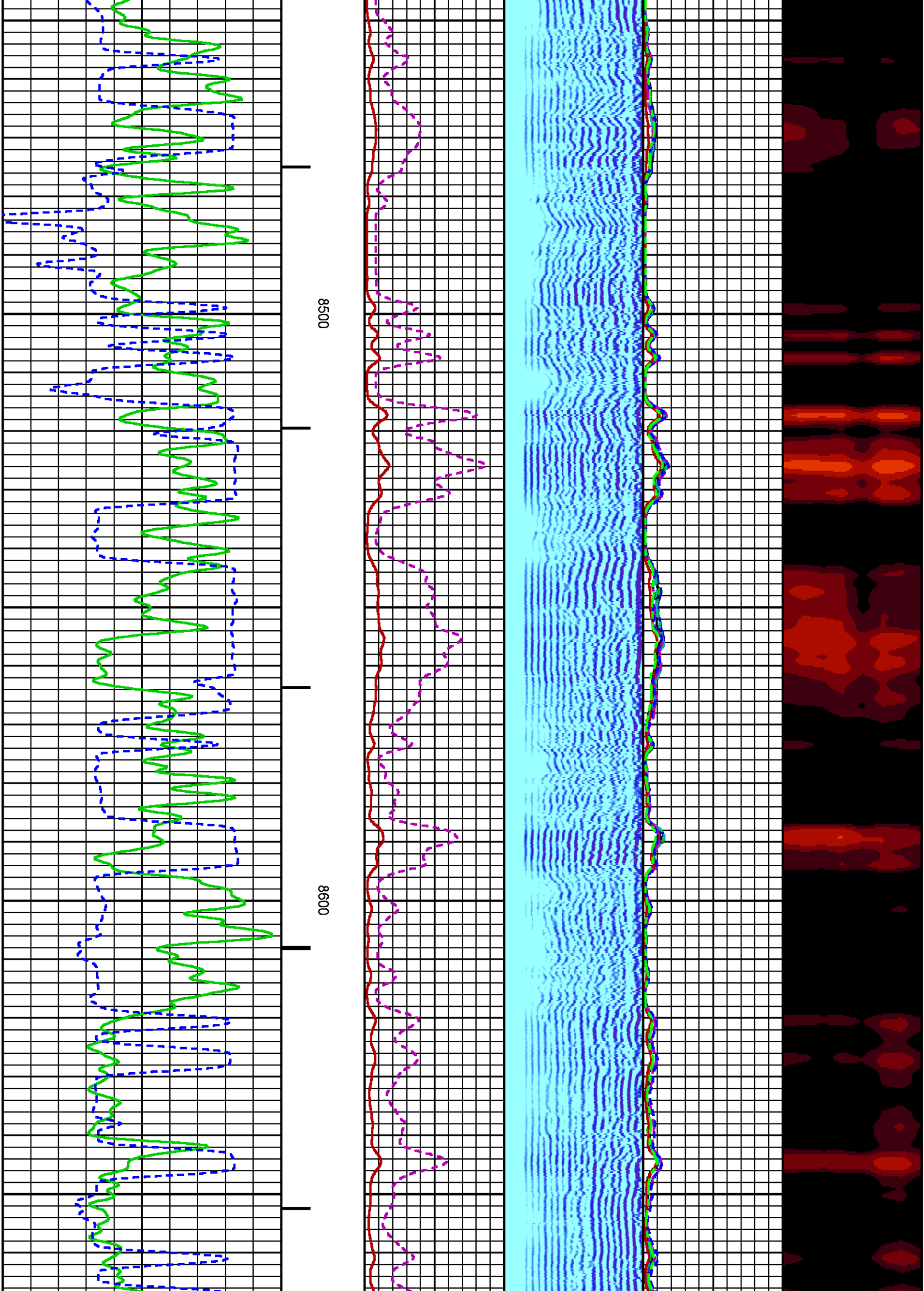


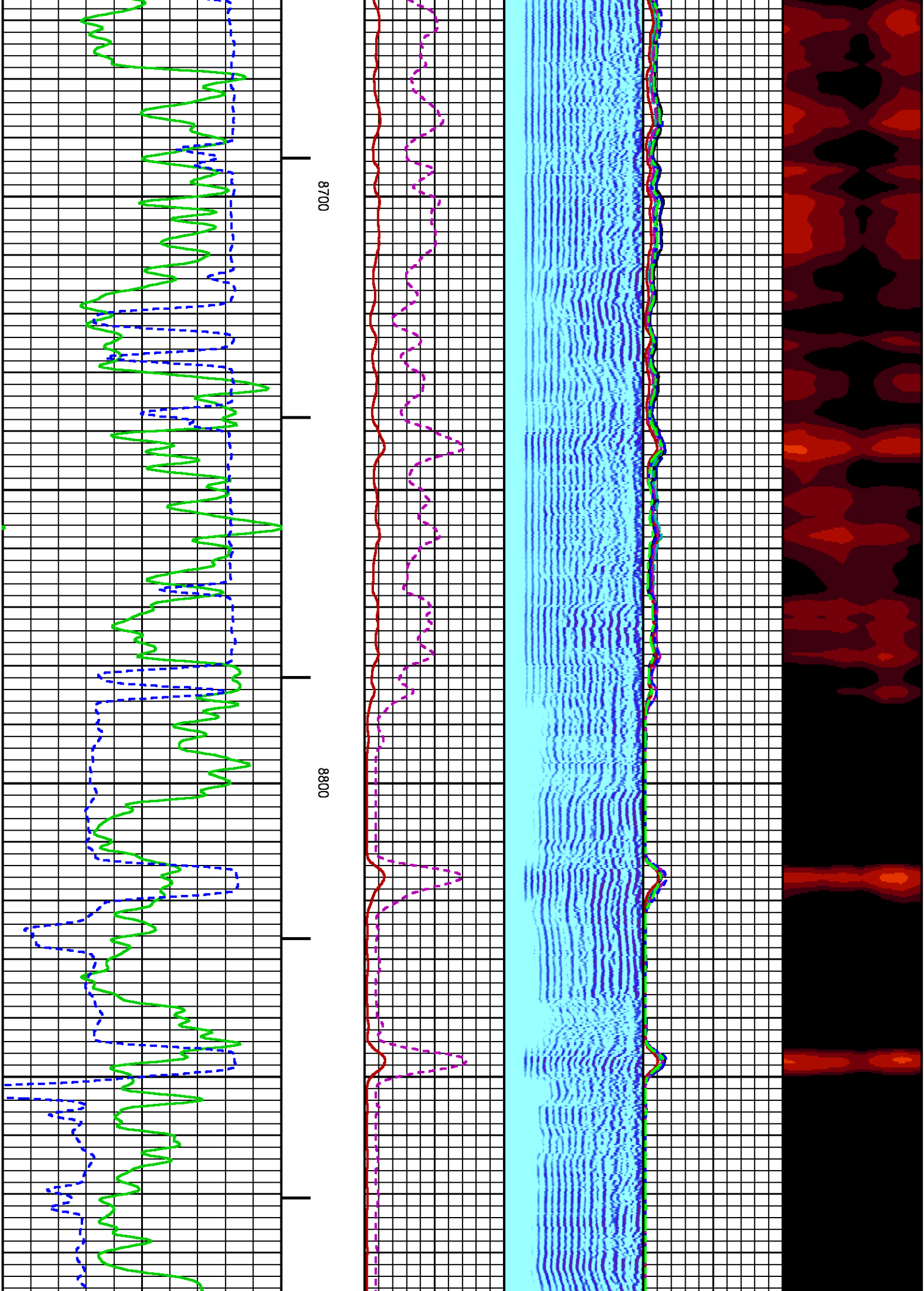


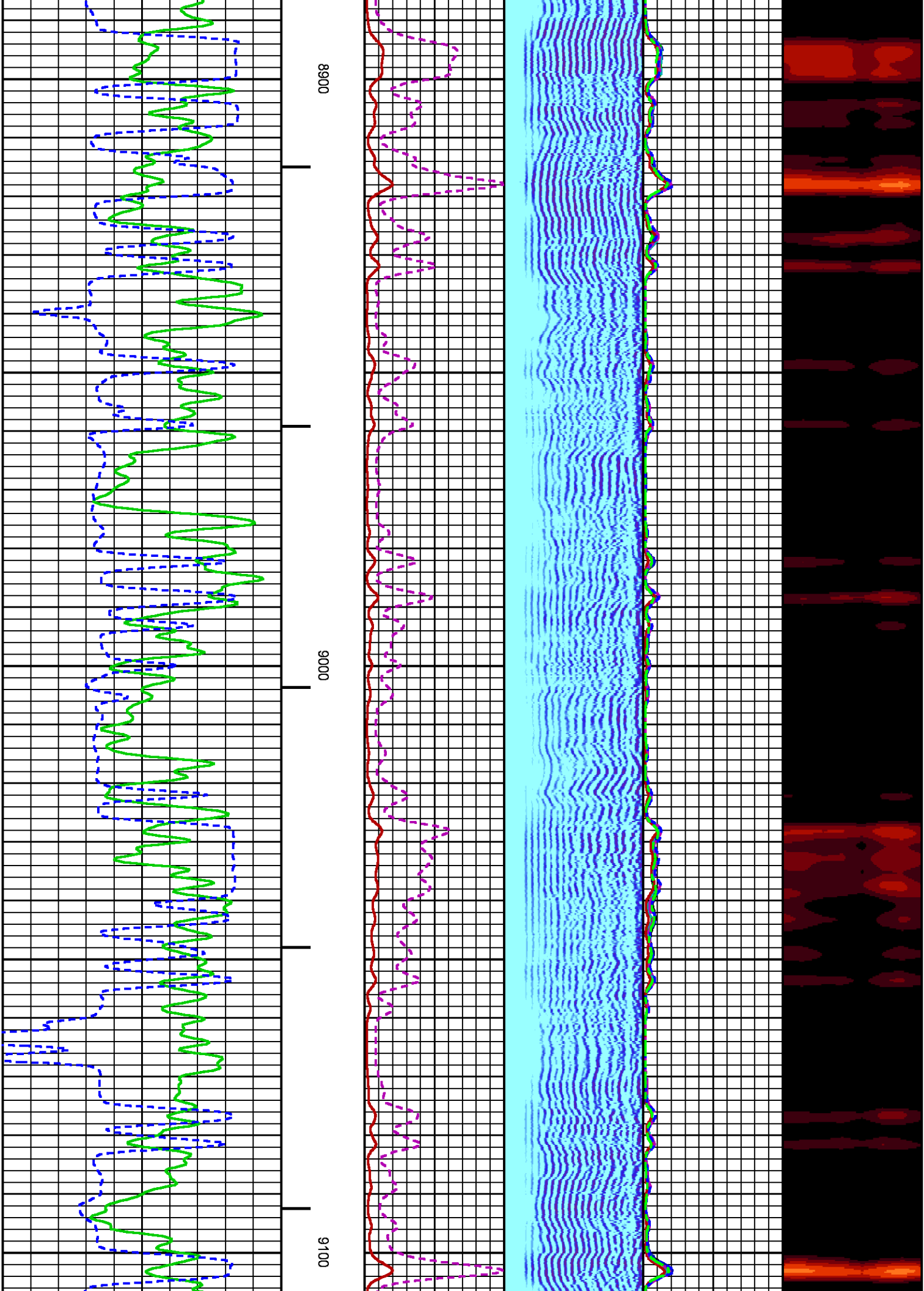


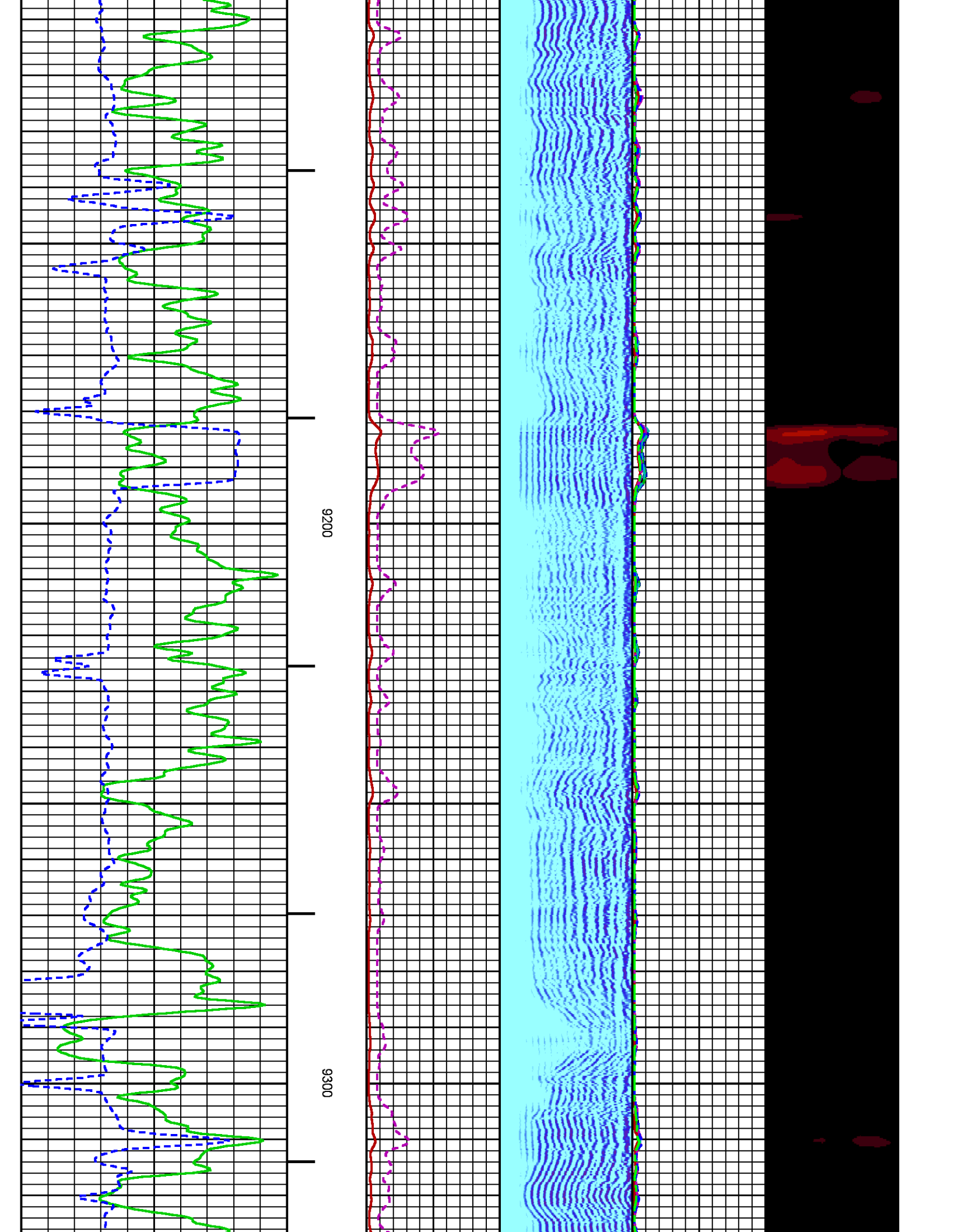


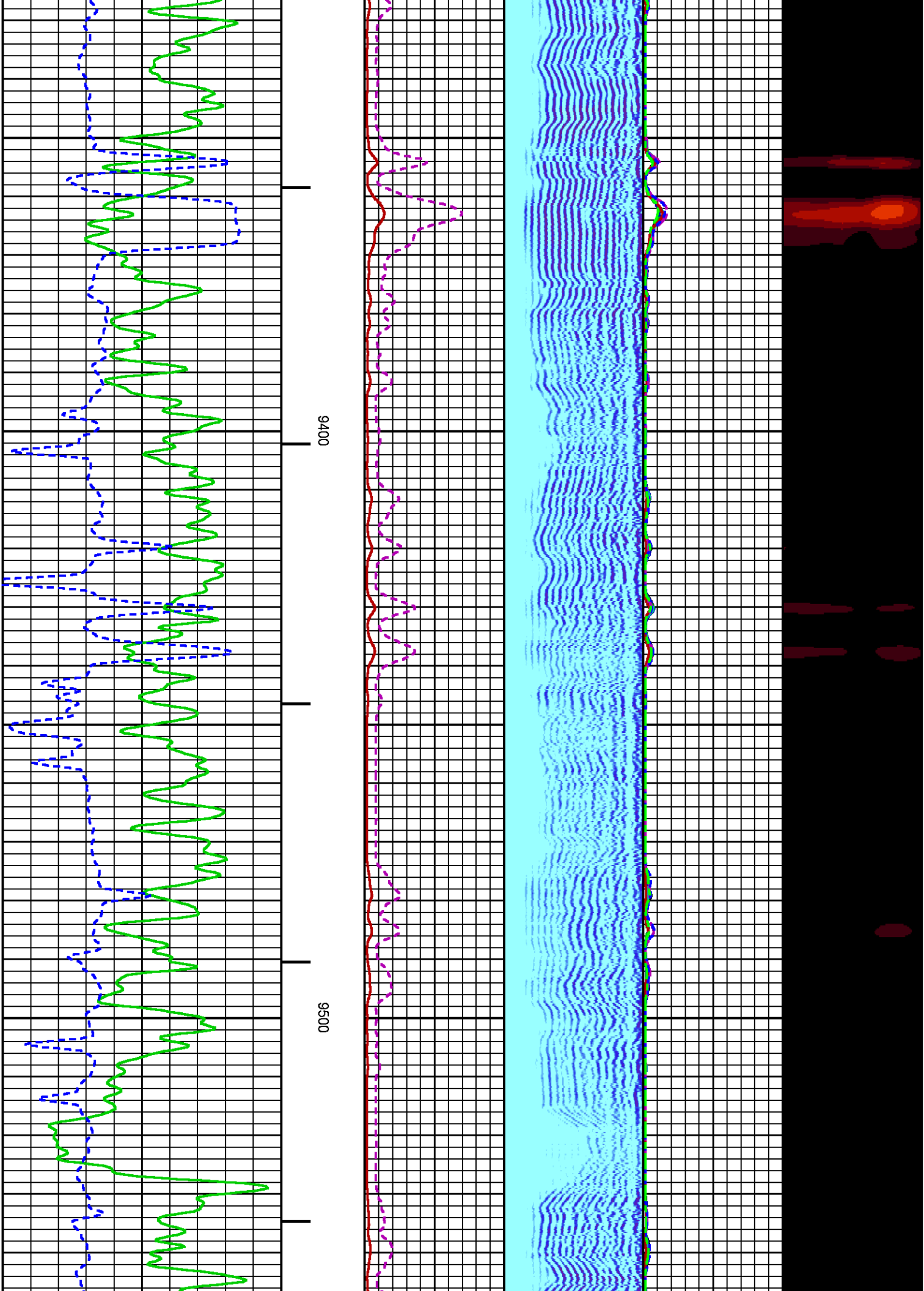


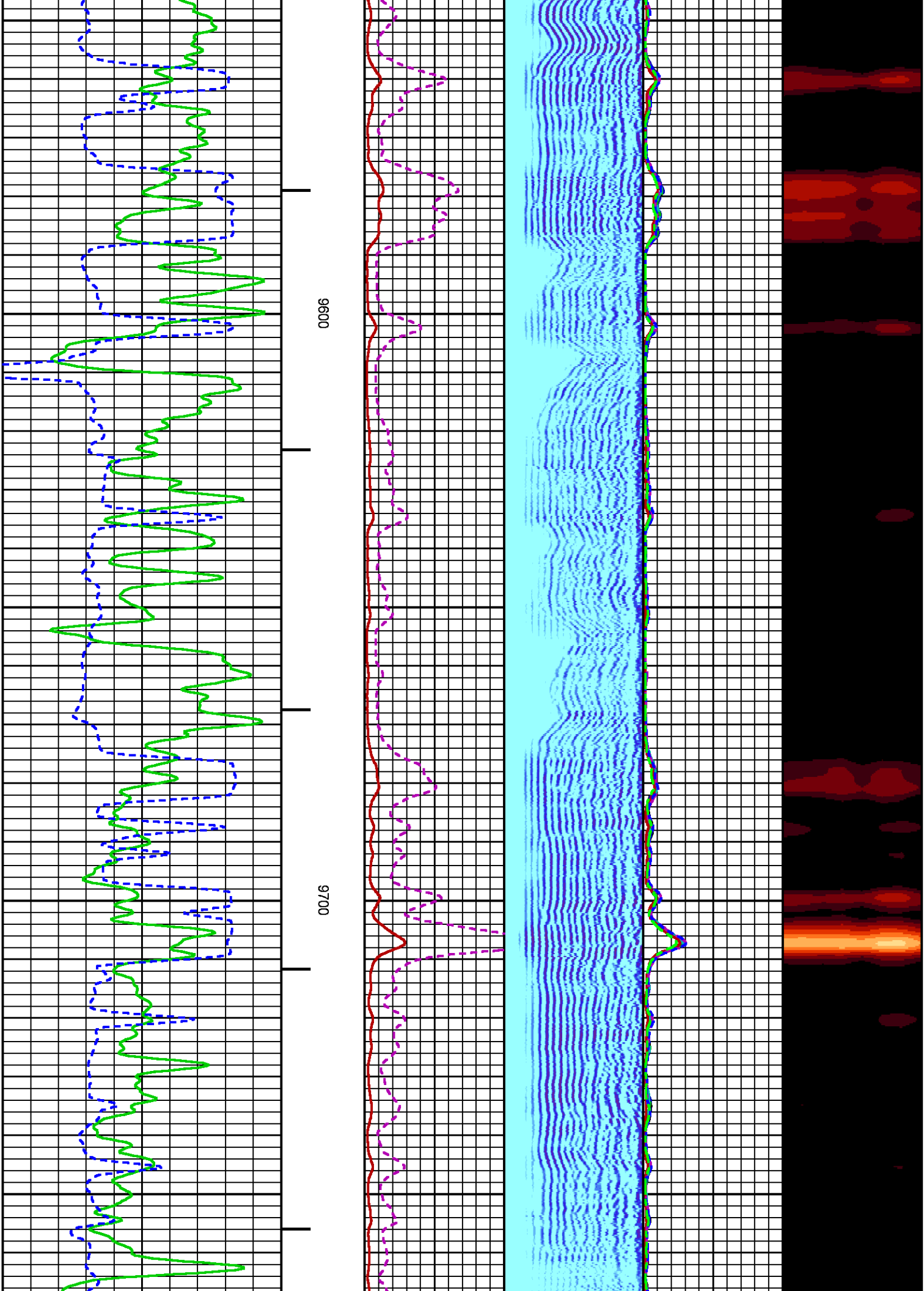


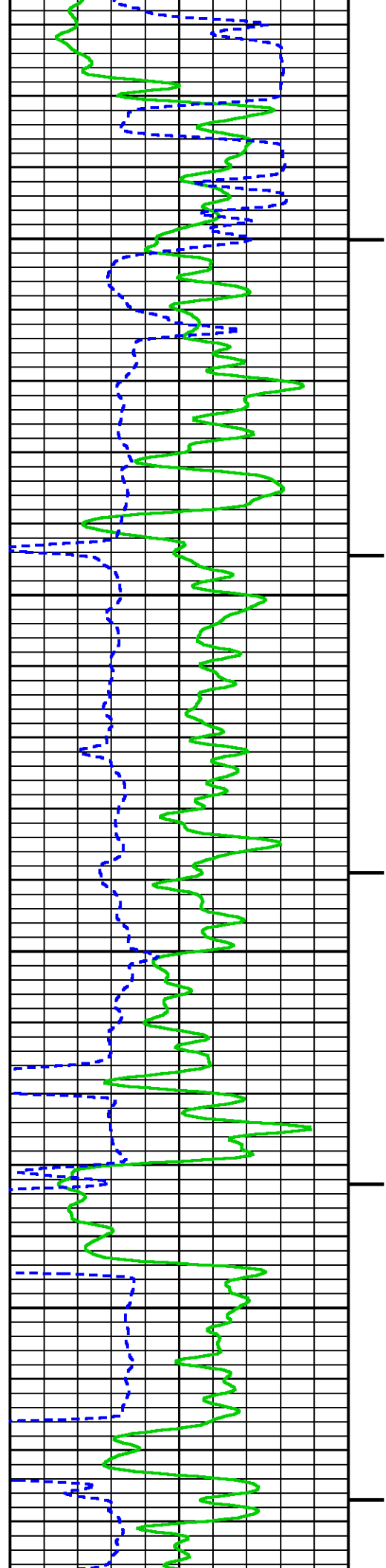






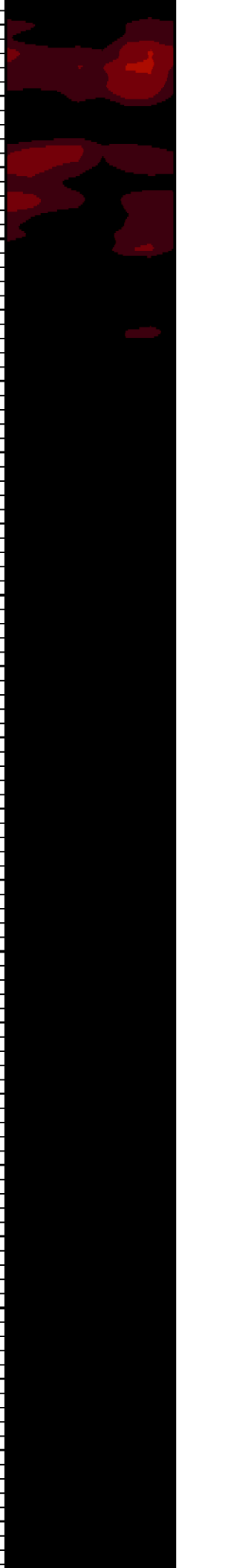
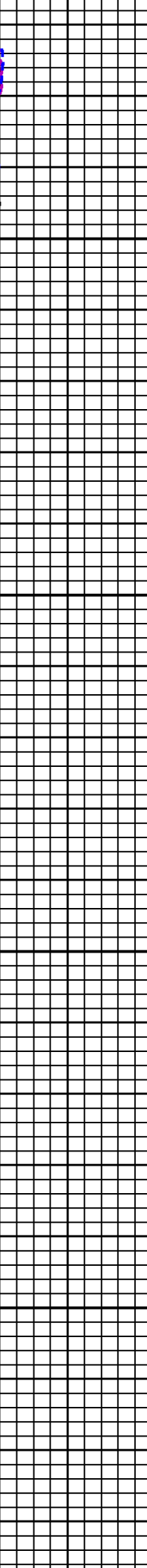
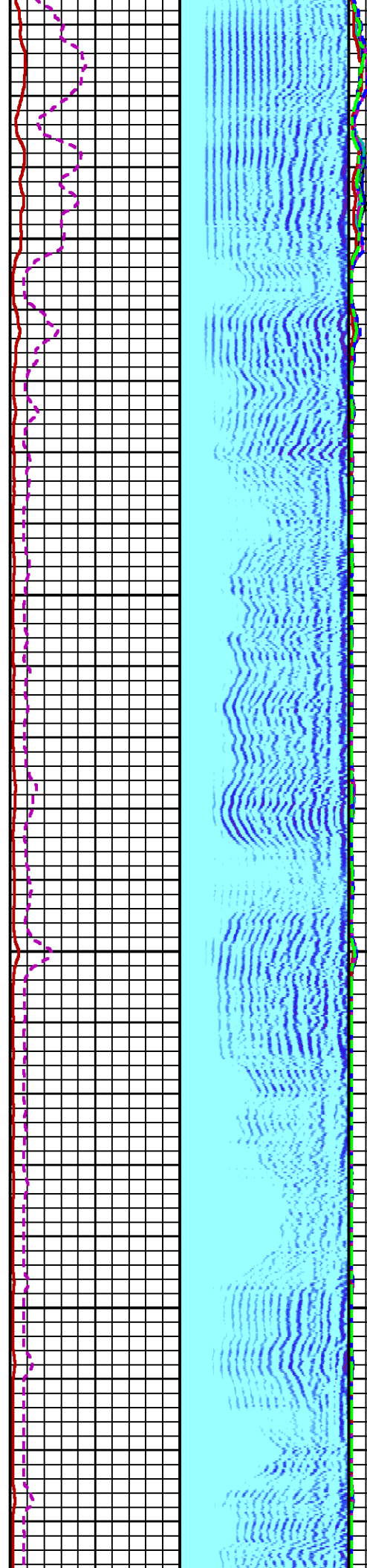


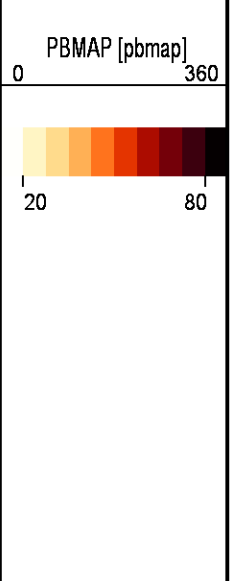
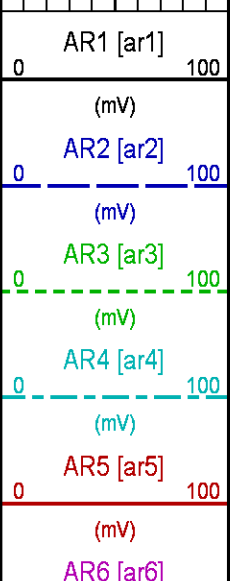
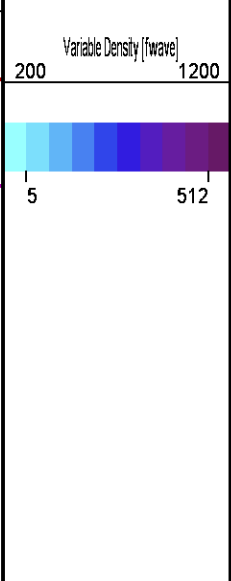
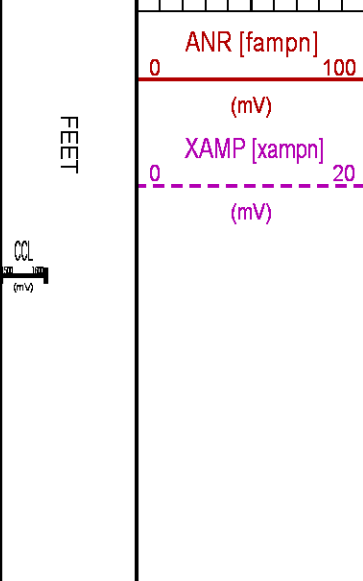
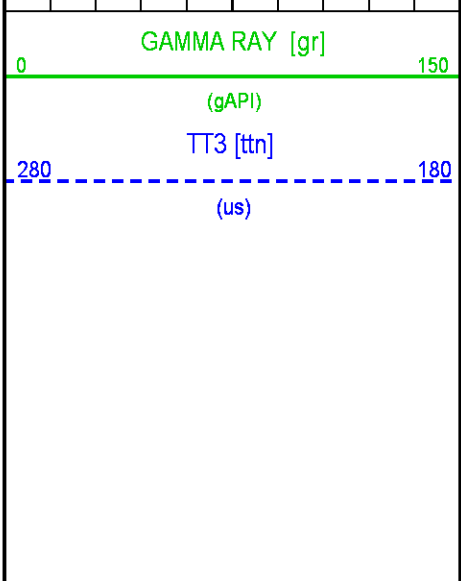
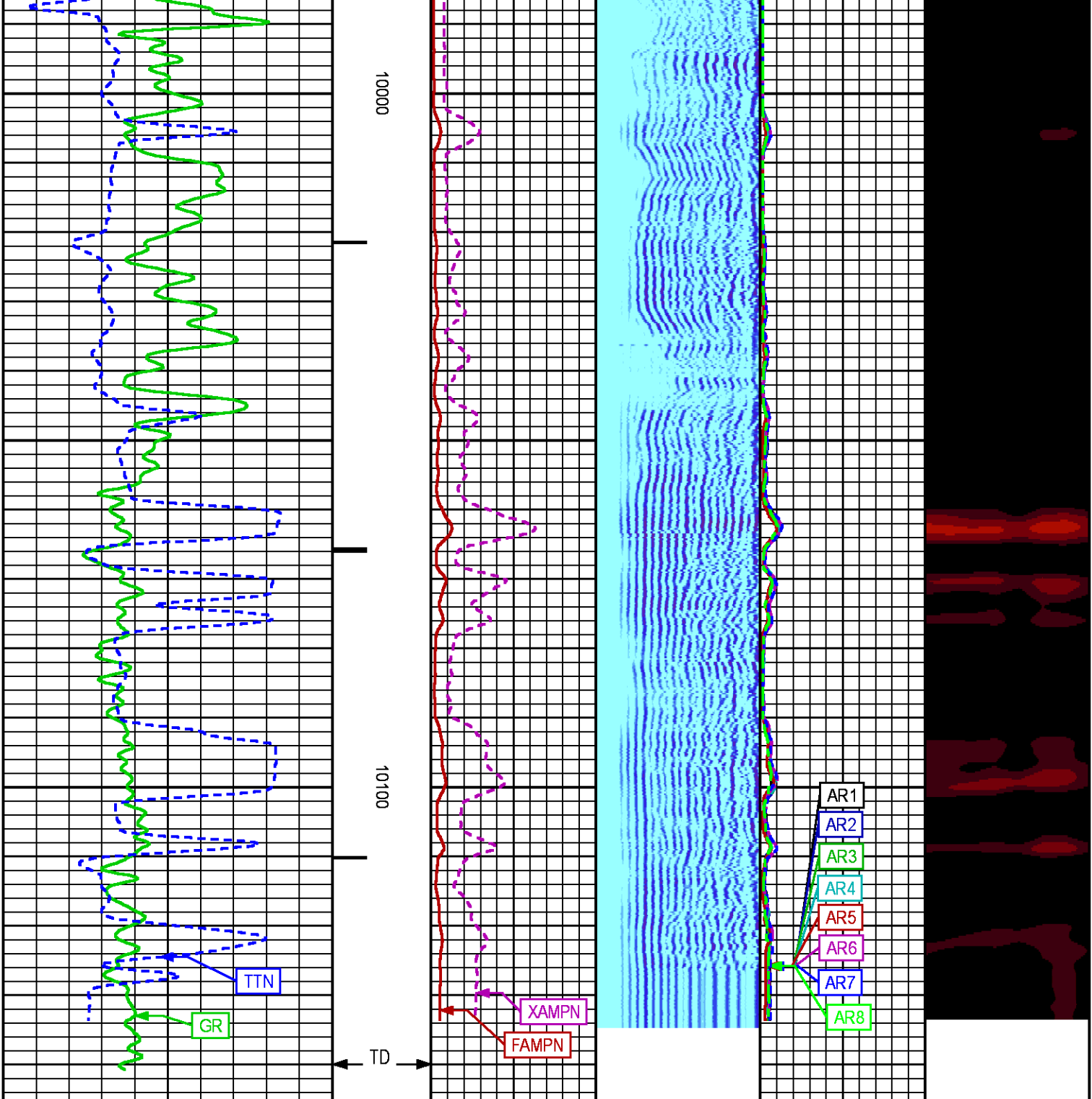


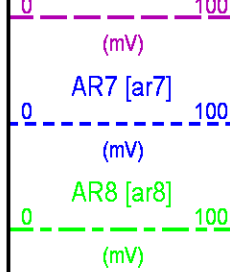


0086

0066







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 18:02:13 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH089583/n012e01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 9743.500 ft BOTTOM DEPTH: 10141.000 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	174	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*)	-74	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	135	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Sep 1 12:09:18 2014	CASING COLLAR LOCATOR
F1:FAMPN	Sep 1 12:09:18 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 1 12:09:18 2014	FAR WAVE FORM
F1:GR	Sep 1 12:09:18 2014	GAMMA RAY
F1:TTN	Sep 1 12:09:18 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 1 12:09:18 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

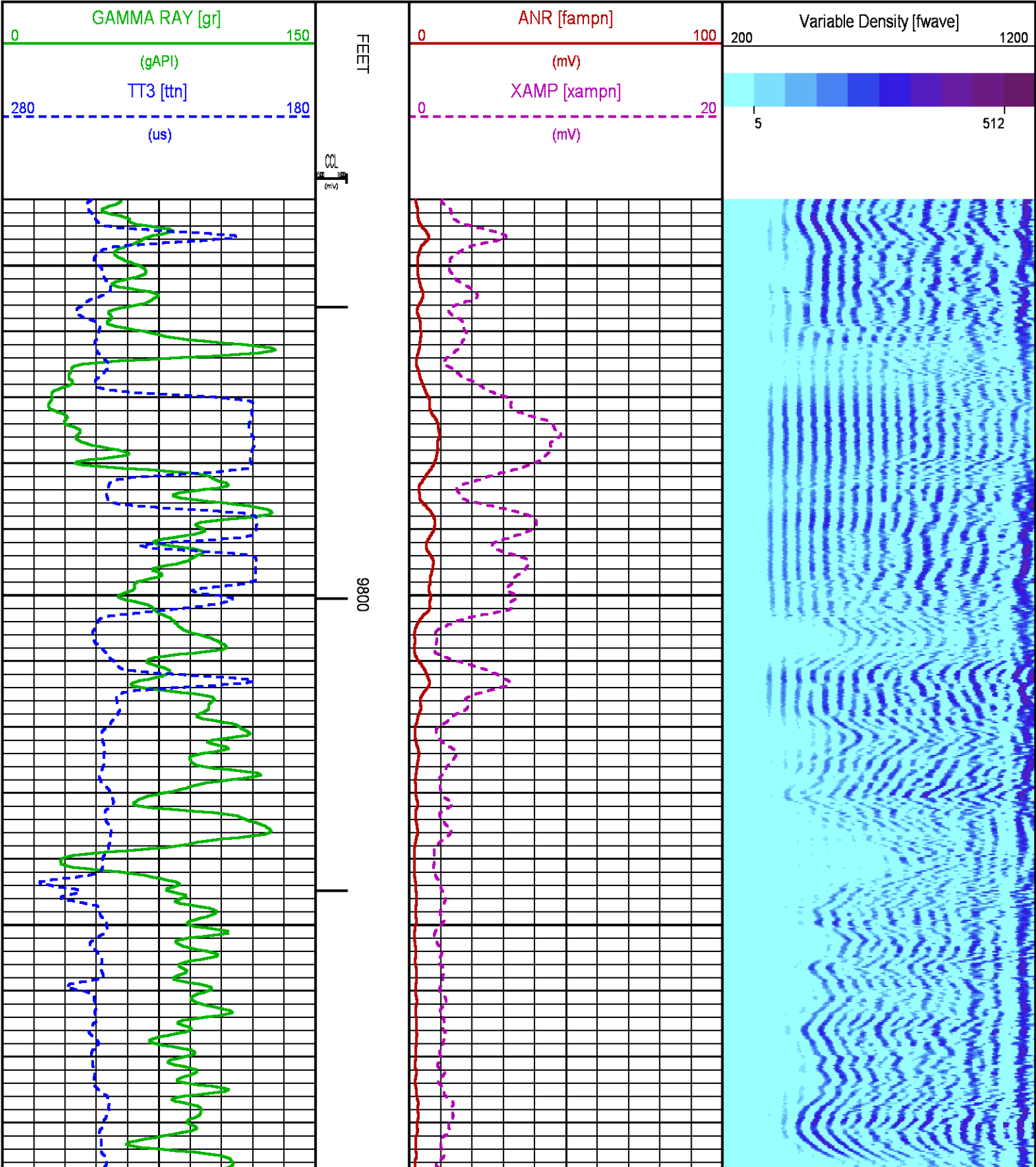
CURVE MEASURE POINT OFFSET

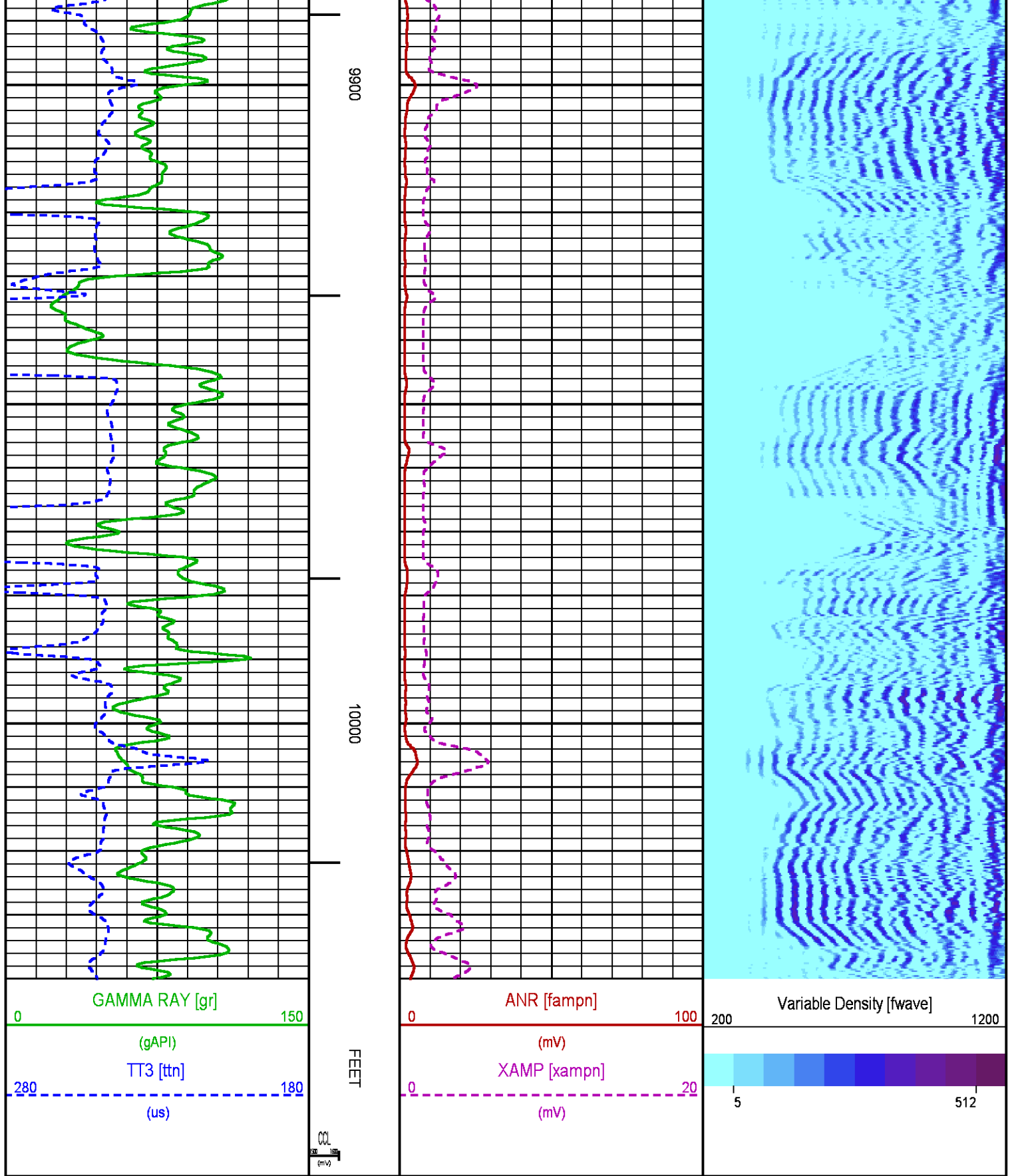
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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CCL	8.50	GR	6.50	XAMPN	13.75	
FAMPN	13.75	TTN	13.75			

Presentation : HL6670:/dat1a/CH089583/324CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 9740 - 10040 Feet

Data File 1 : F1 : HL6670:/dat1a/CH089583/324CBL_REPEAT.xtf
Created On : Sep 1 12:09:18 2014
Company : WPX ENERGY
Well : FEDERAL NER 324-32
Field : RULISON
File Interval : 9731.75 - 10143.5 Feet
OCT : n012e





CALIBRATION / VERIFICATION SUMMARY

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 11:26:58 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	-0.00	-0.01	-0.01	-0.00	-0.01	-0.01	-0.01	-0.00	-0.47	0.00
AMP AIR	-1.15	-1.59	-1.54	-1.38	-1.49	-2.37	-1.58	-1.63	-1.64	-0.49	99.42

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.35	0.00	1.01

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 (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	88.36	336.89	0.743	65.69	250.46	184.77
						175.00 195.00

INSTRUMENT CONFIGURATION

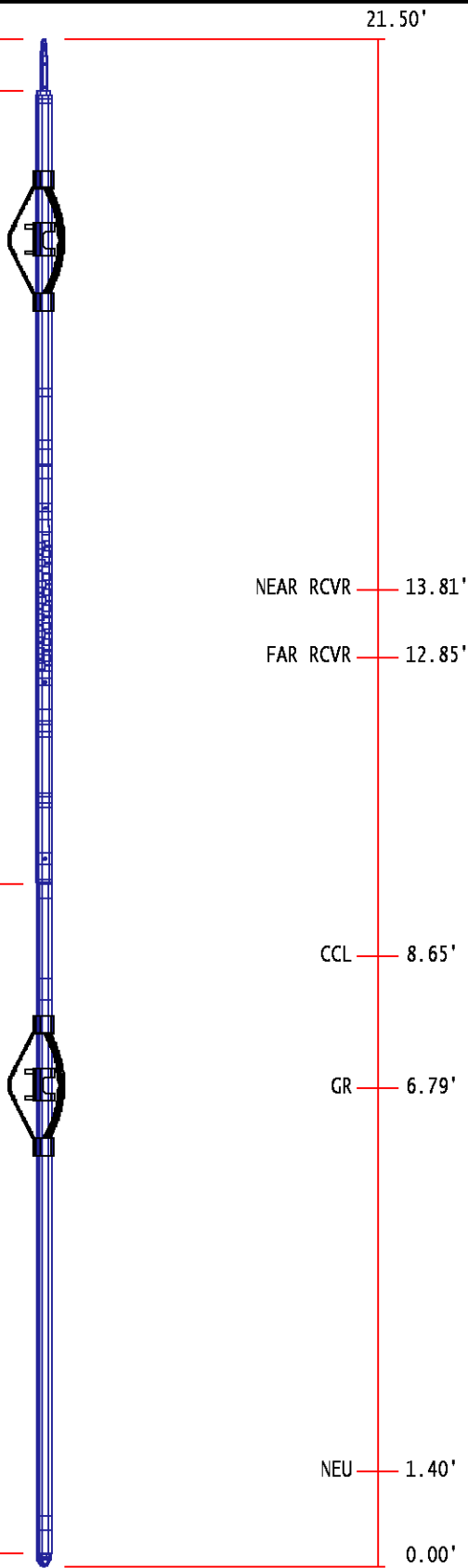
A3 CABLEHEAD
Diameter : 1.37"


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



	COMPANY <u>WPX ENERGY</u> WELL <u>FEDERAL NER 324-32</u> FIELD <u>RULISON</u> COUNTY <u>GARFIELD</u> STATE <u>CO</u>	FILE NO: <u>CH089583</u> API NO: <u>05045217920000</u>
	LOCATION: SHL: 127' FNL & 2575' FWL(5 7S 93W) BH: 1061' FSL & 2023' FWL(32 6S 93W) SEC <u>32</u> TWP <u>6S</u> RGE <u>93W</u>	ELEVATIONS: KB 7629 FT DF GL 7603 FT
DATE <u>01-Sep-2014</u>		

