



FILE NO: CH095177	COMPANY WPX ENERGY
API NO: 05045200500000	WELL MEAD RWF 43-23
	FIELD RULISON
	COUNTY GARFIELD
	STATE CO

Version 23 6S 94W RWF 43-23 PAD NABORS 577	LOCATION: SHL: 2293' FSL & 226' FEL BHL: 2250' FSL & 203' FEL SEC 23 TWP 6S RGE 94W	OTHER SERVICES NONE
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB ELEVATION 26 FT 5699 FT ABOVE P.D.	ELEVATIONS: KB 5625 FT DF GL 5599 FT
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DATE	06-Mar-2015
RUN	1
TRIP	1
SERVICE ORDER	US095177
DEPTH DRILLER	8281 FT
DEPTH LOGGER	8256 FT
BOTTOM LOGGED INTERVAL	8246 FT
TOP LOGGED INTERVAL	26 FT
TIME STARTED	14:00
TIME FINISHED	17:30
OPERATOR RIG TIME	3.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	53 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 FMIN
MAX. RECORDED TEMP.	236 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	26-Jan-2015
EQUIP. NO.	HL-6670
LOCATION	GRAND JCT.
RECORDED BY	NEWELL
WITNESSED BY	TED VONFELDT

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	26 FT	1101 FT
8.75 IN	1101 FT	8281 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			26 FT	1101 FT
4.5 IN	11.6 LB/F	I-80	26 FT	8281 FT

REMARKS

RUN 1 TRIP 1: All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 26/JAN/2015 at the client's request.

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

The amount of linear shift is 2 feet.

Logged with zero PSI at wellhead.

BHT = 226 °F
SJ = 4623' - 4645'

EQUIPMENT DATA

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

PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 31 Patches: 2

Plotted: Sat Mar 07 16:56:11 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: D:\dat1a\095177\012e02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 26.250 ft BOTTOM DEPTH: 8261.250 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*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	177	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*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

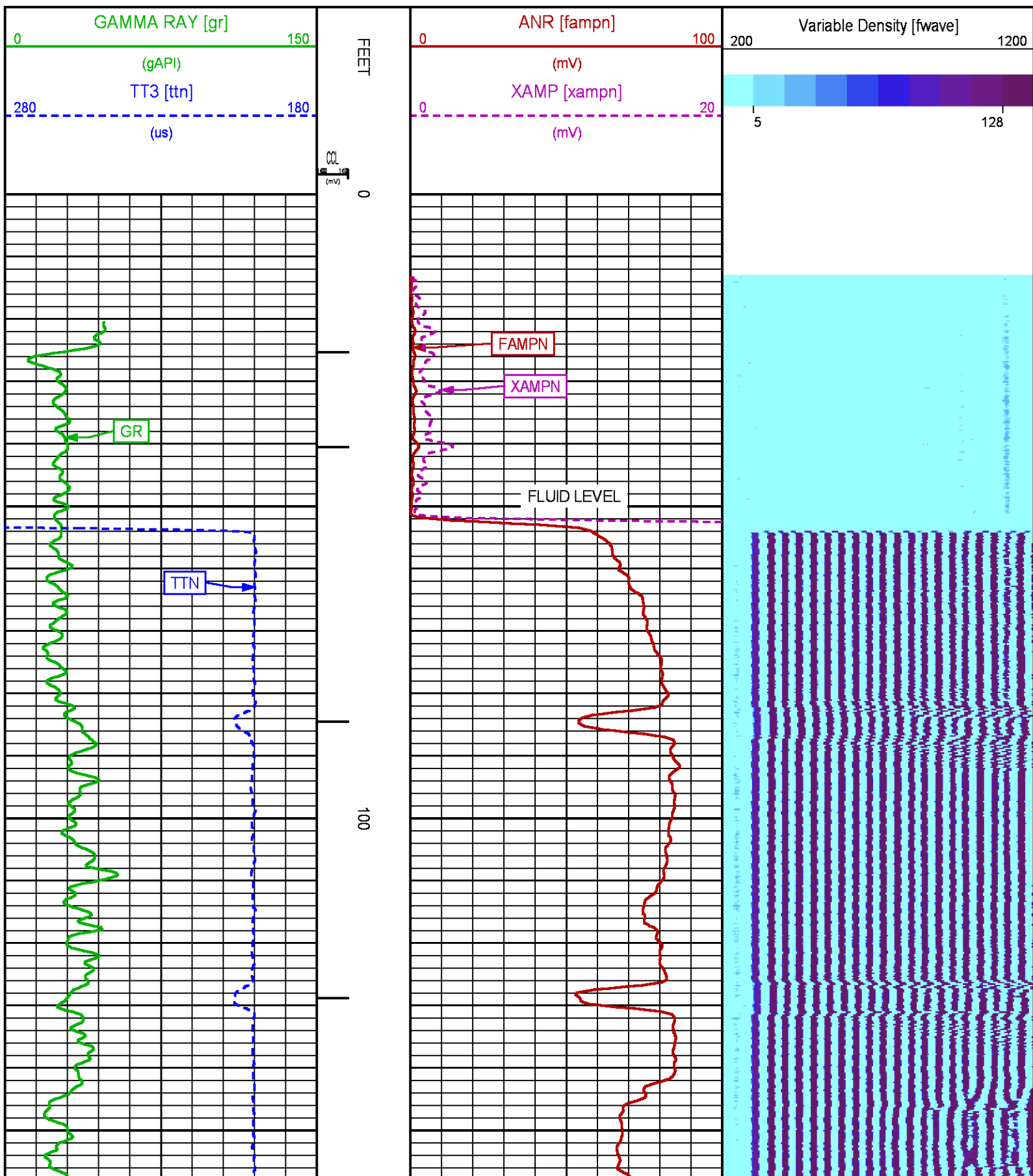
CURVE DESCRIPTION REPORT

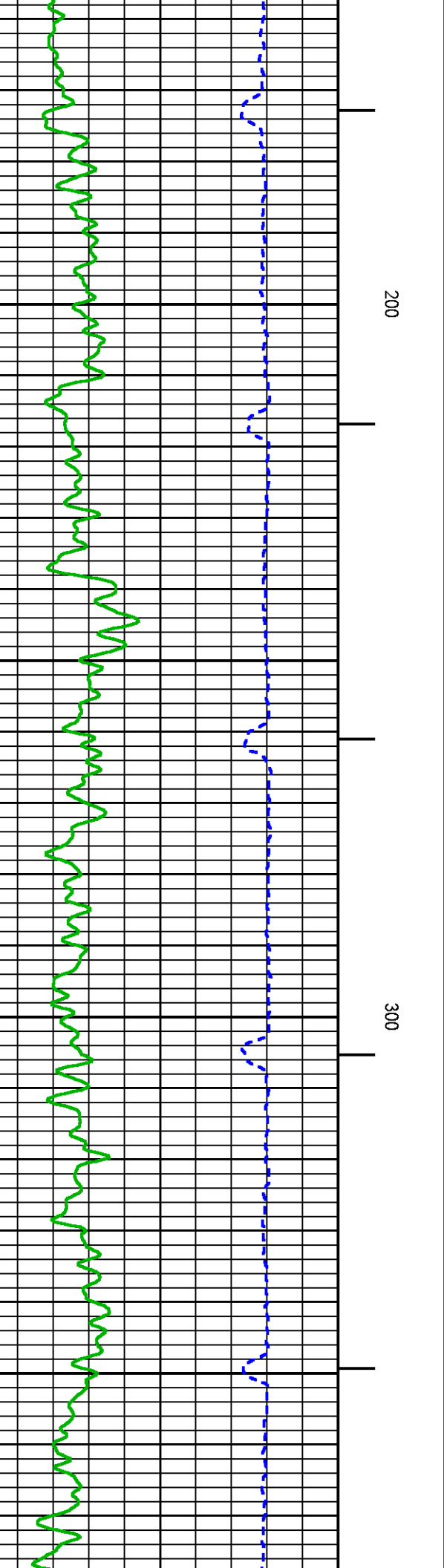
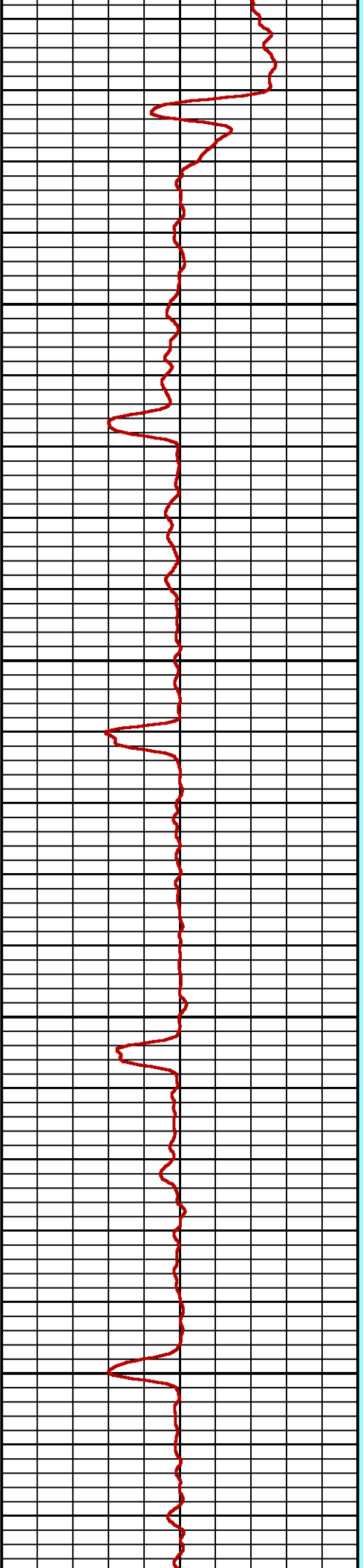
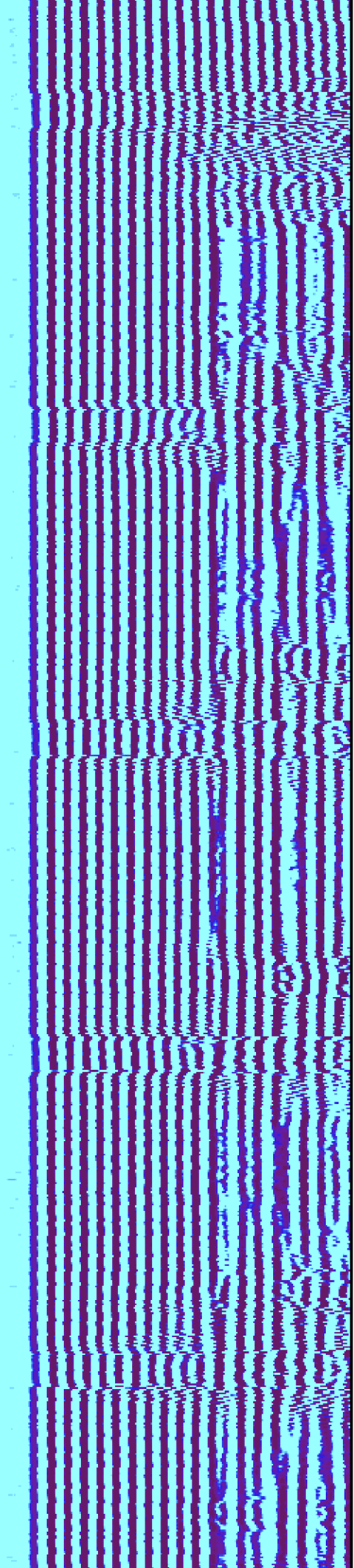
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 6 14:44:59 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 6 14:44:59 2015	FAR WAVE FORM
F1:GR	Mar 6 14:44:59 2015	GAMMA RAY
F1:TTN	Mar 6 14:44:59 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

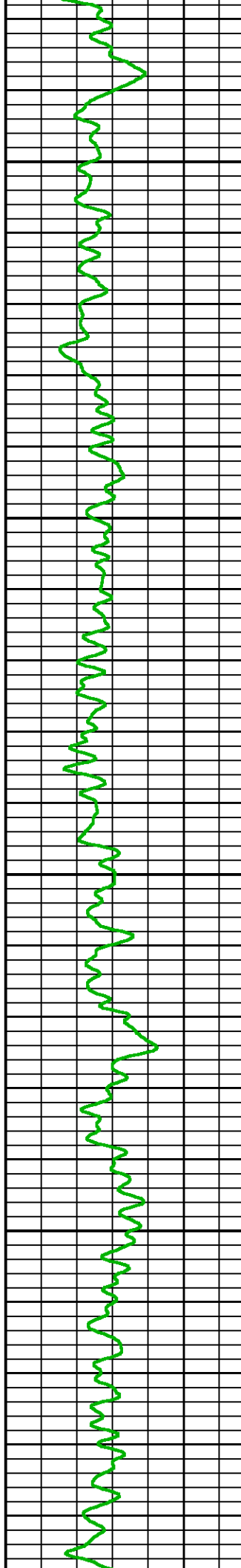
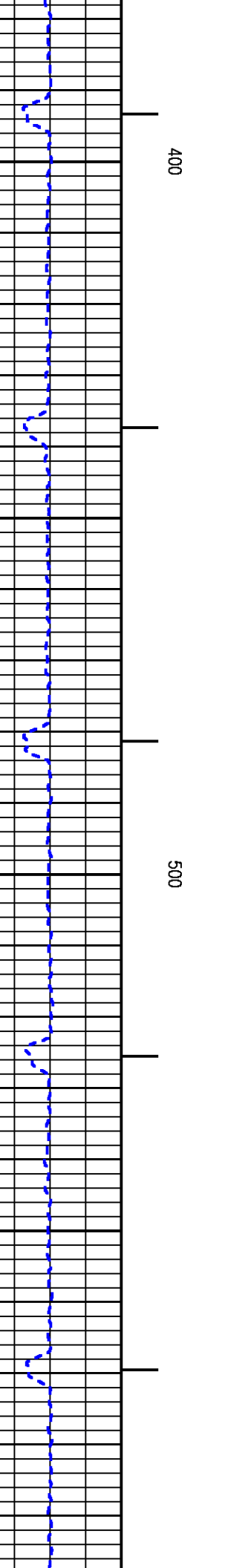
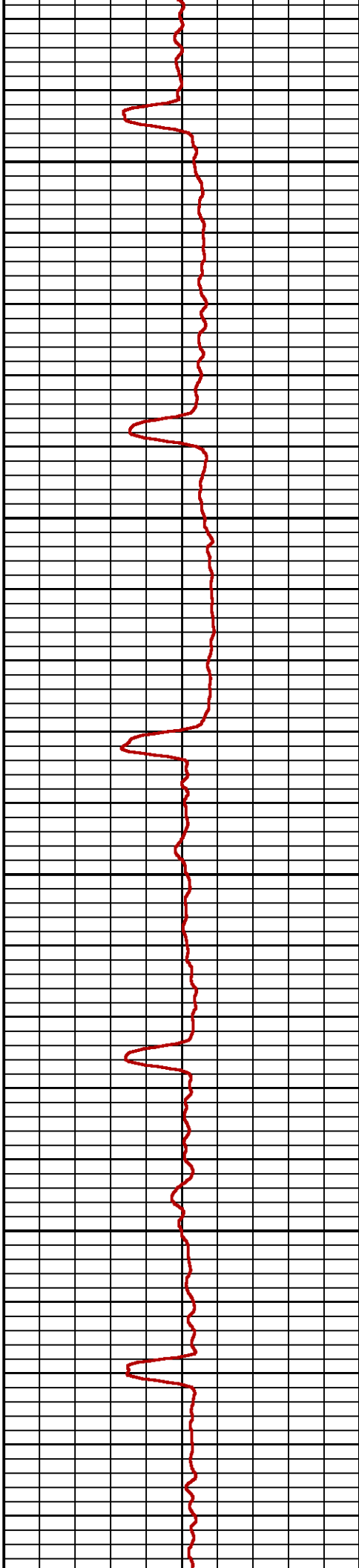
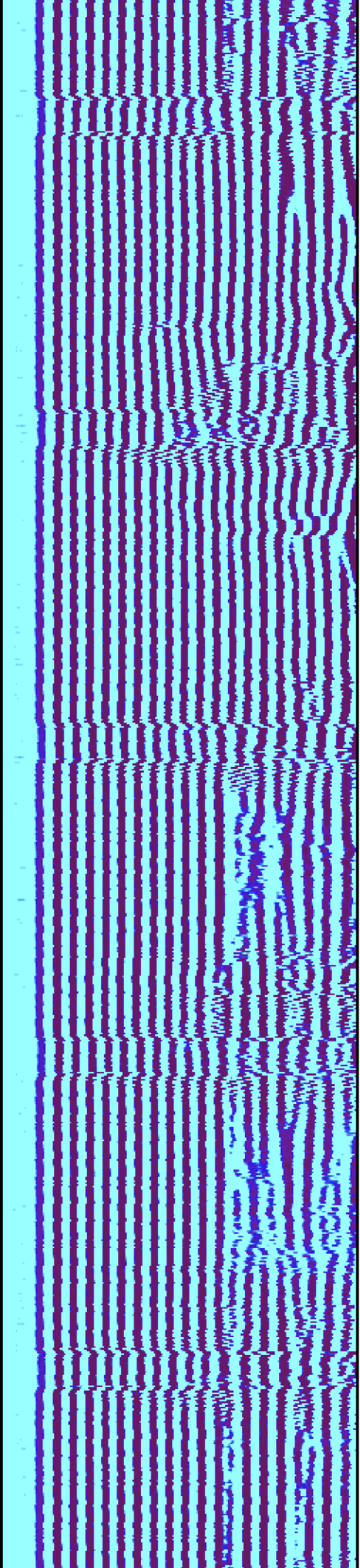
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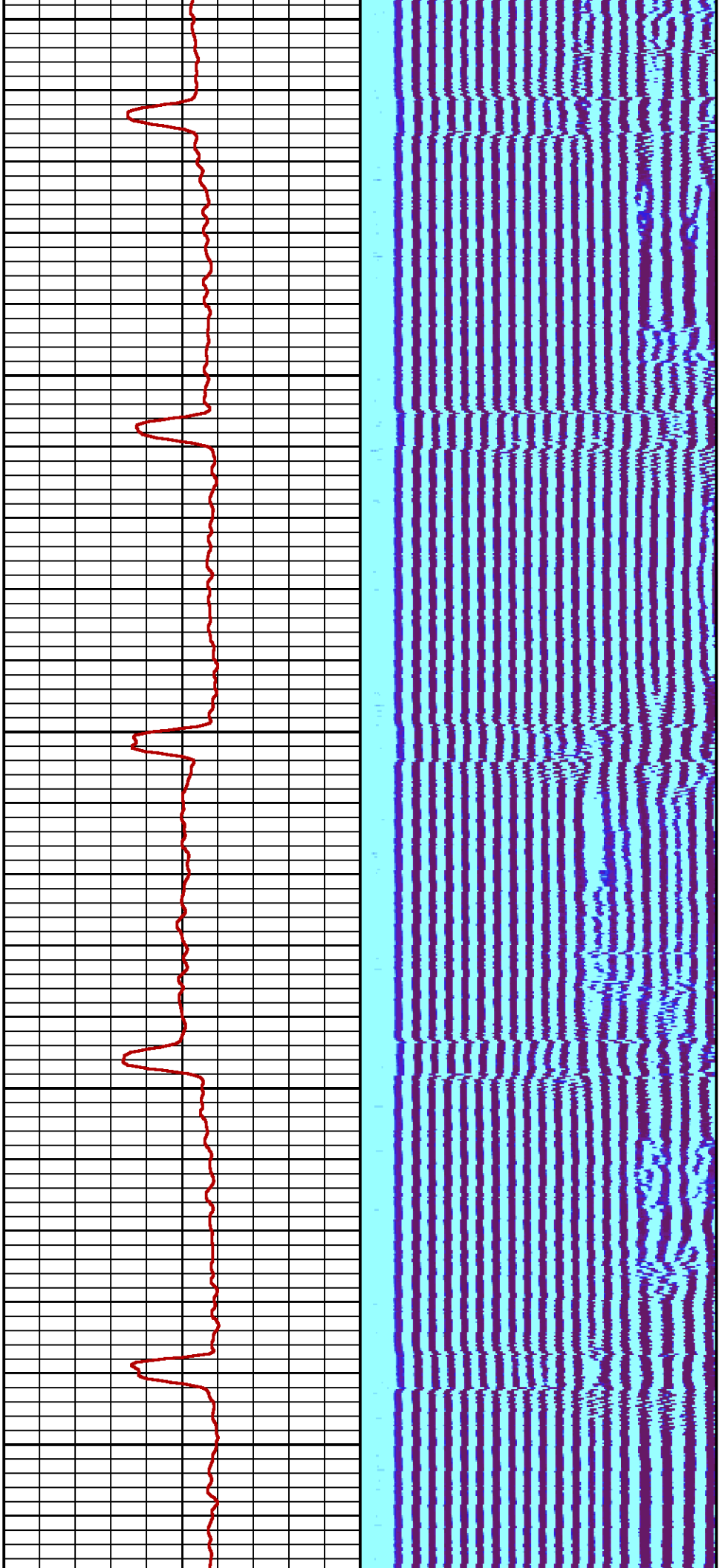
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

Data File 1 : F1 : BHIBX9FSY1:D:\dat1a\095177\43CBL_MAIN.xtf
Created On : Mar 6 14:44:59 2015
Company : WPX ENERGY
Well : MEAD RWF 43-23
Field : RULISON
File Interval : 12 - 8260.75 Feet
OCT : n012e





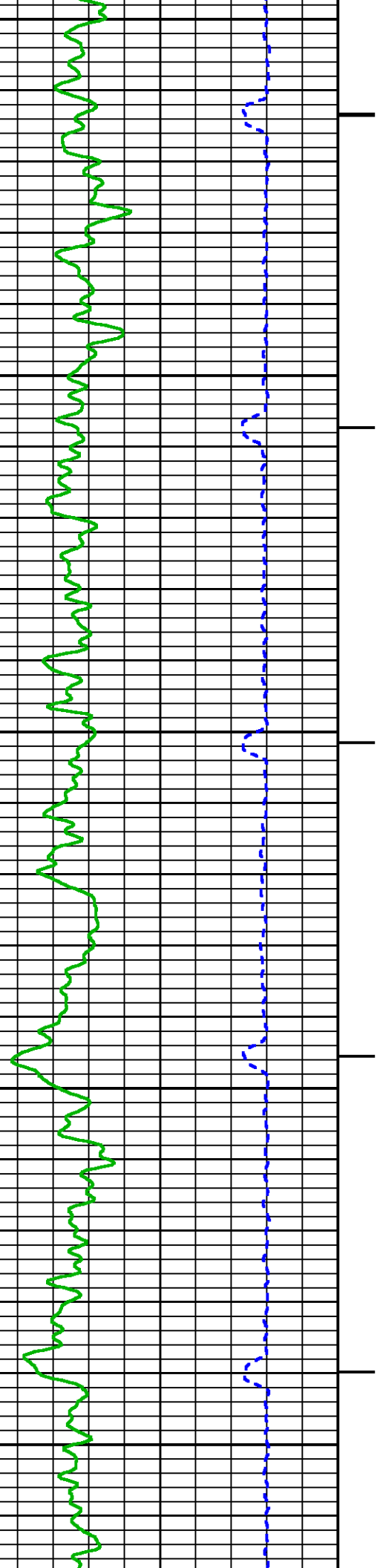


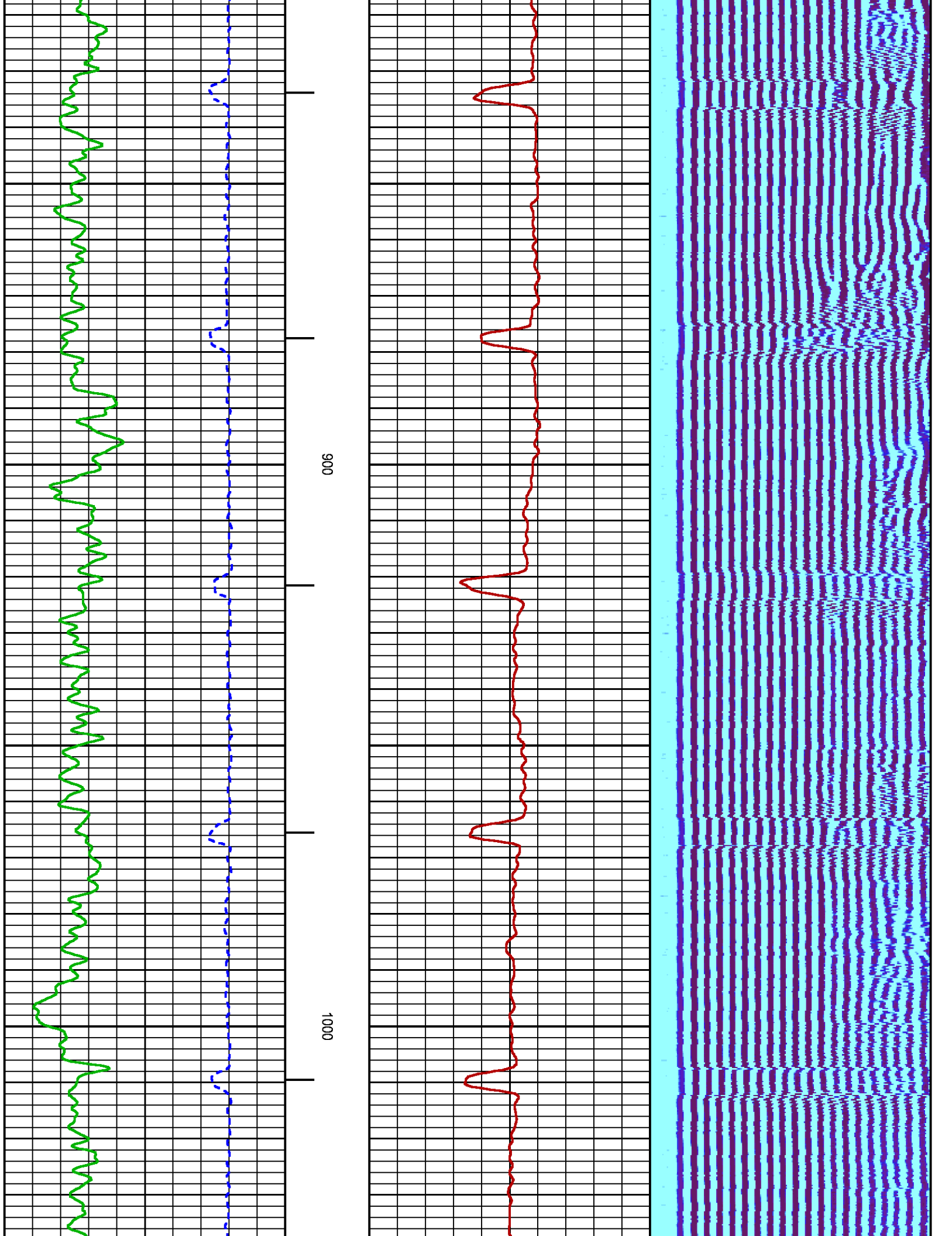


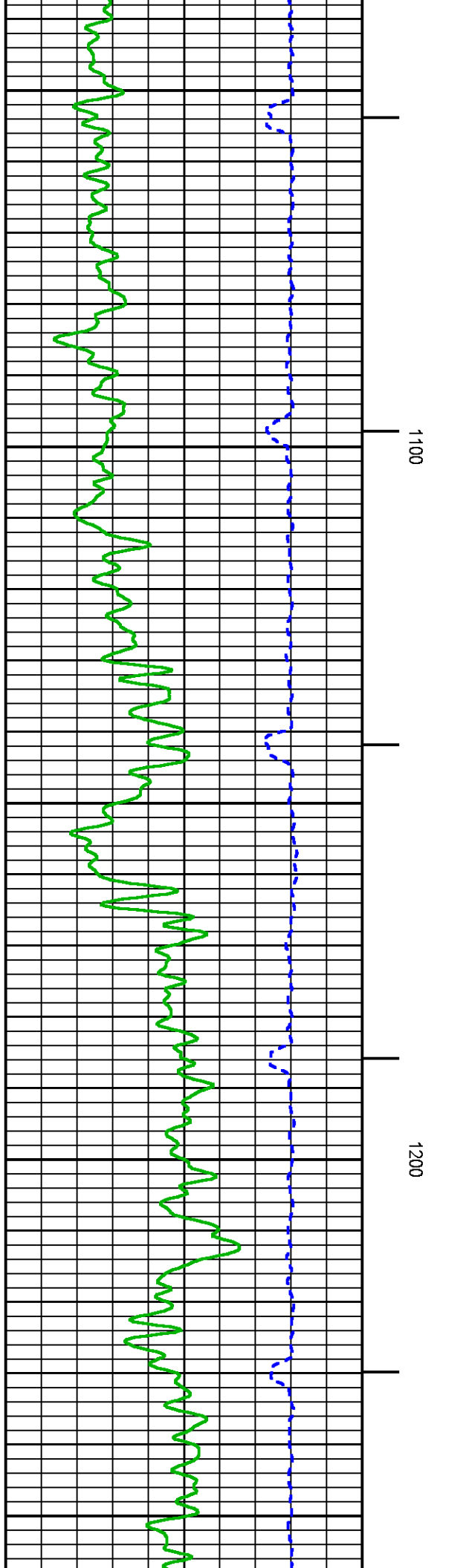
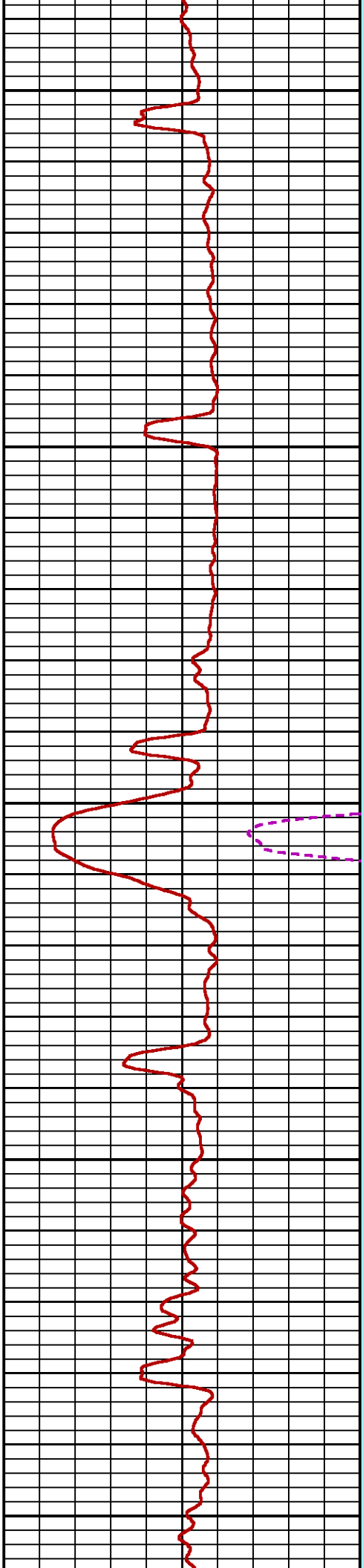
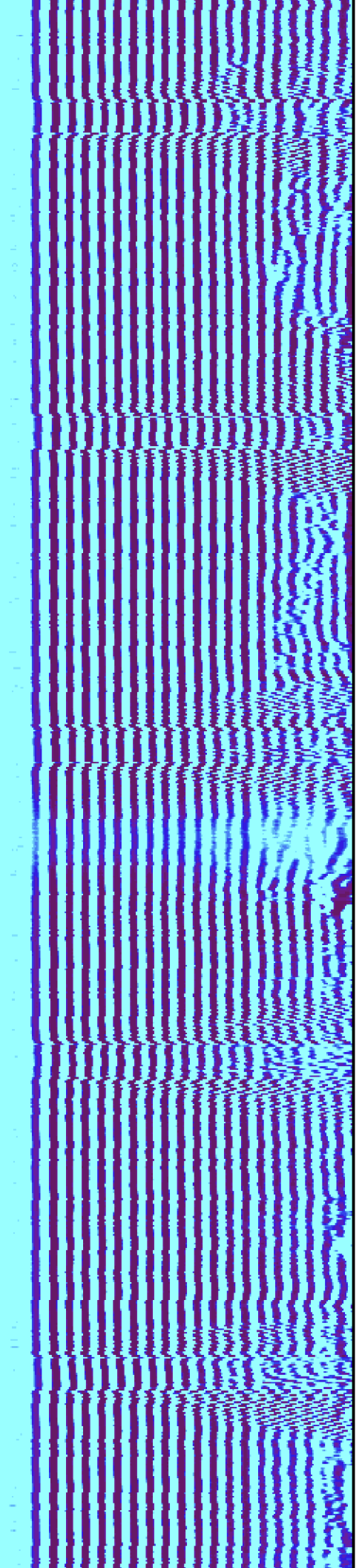
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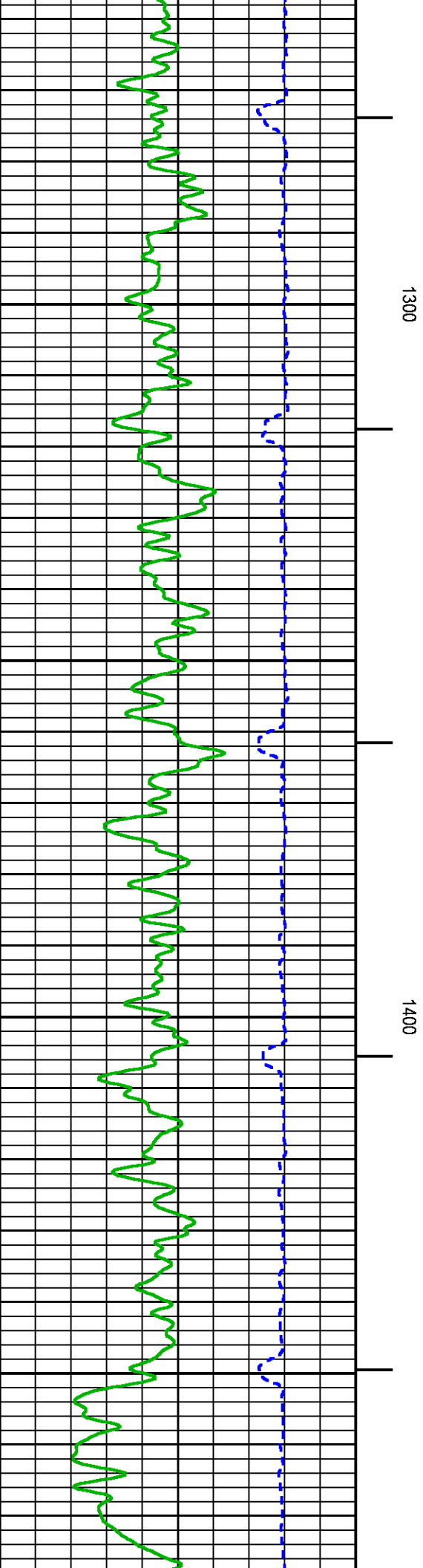
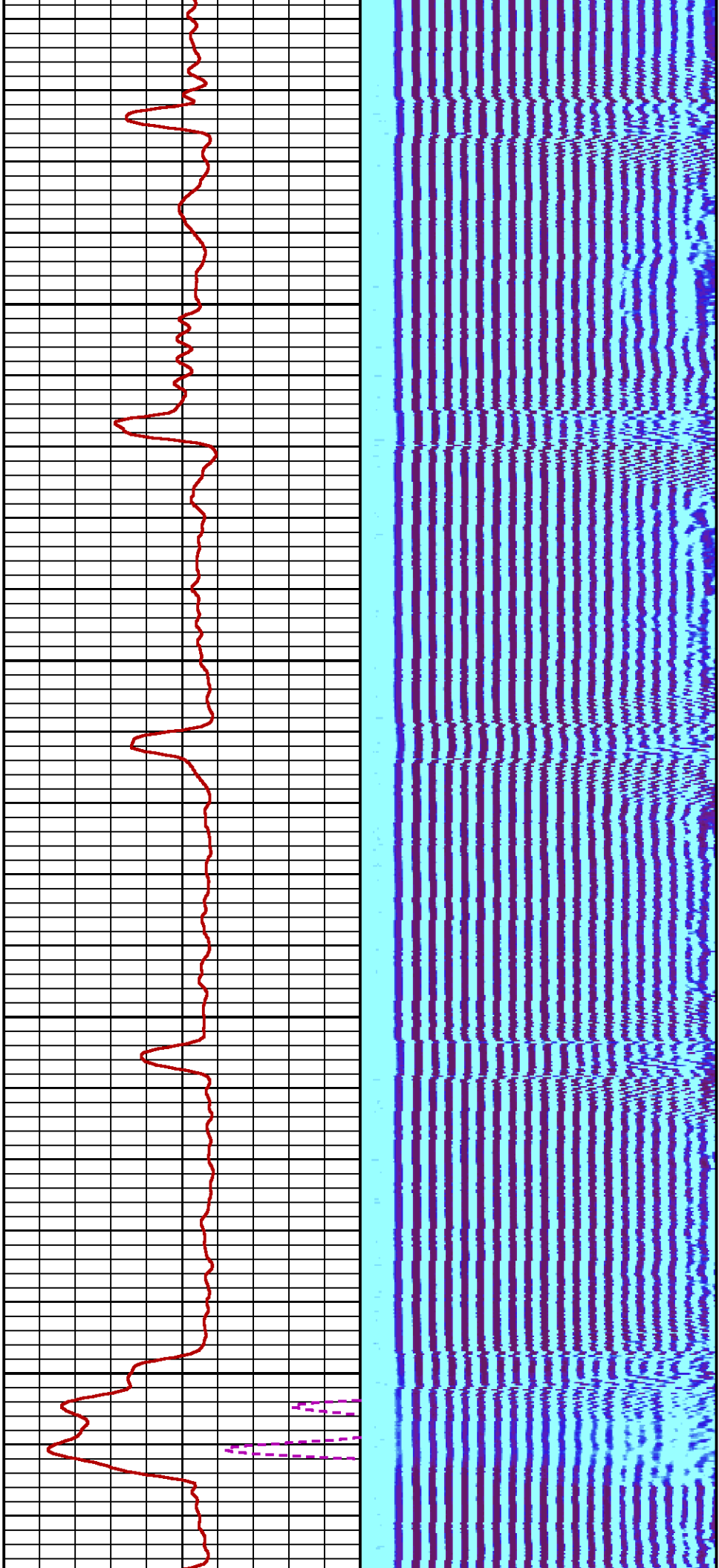
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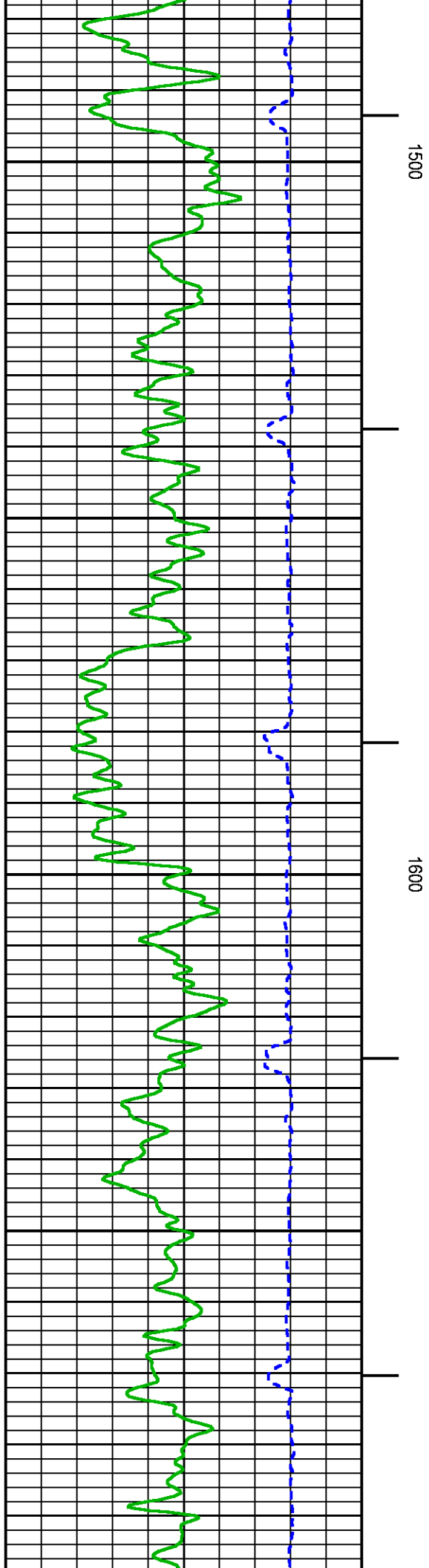
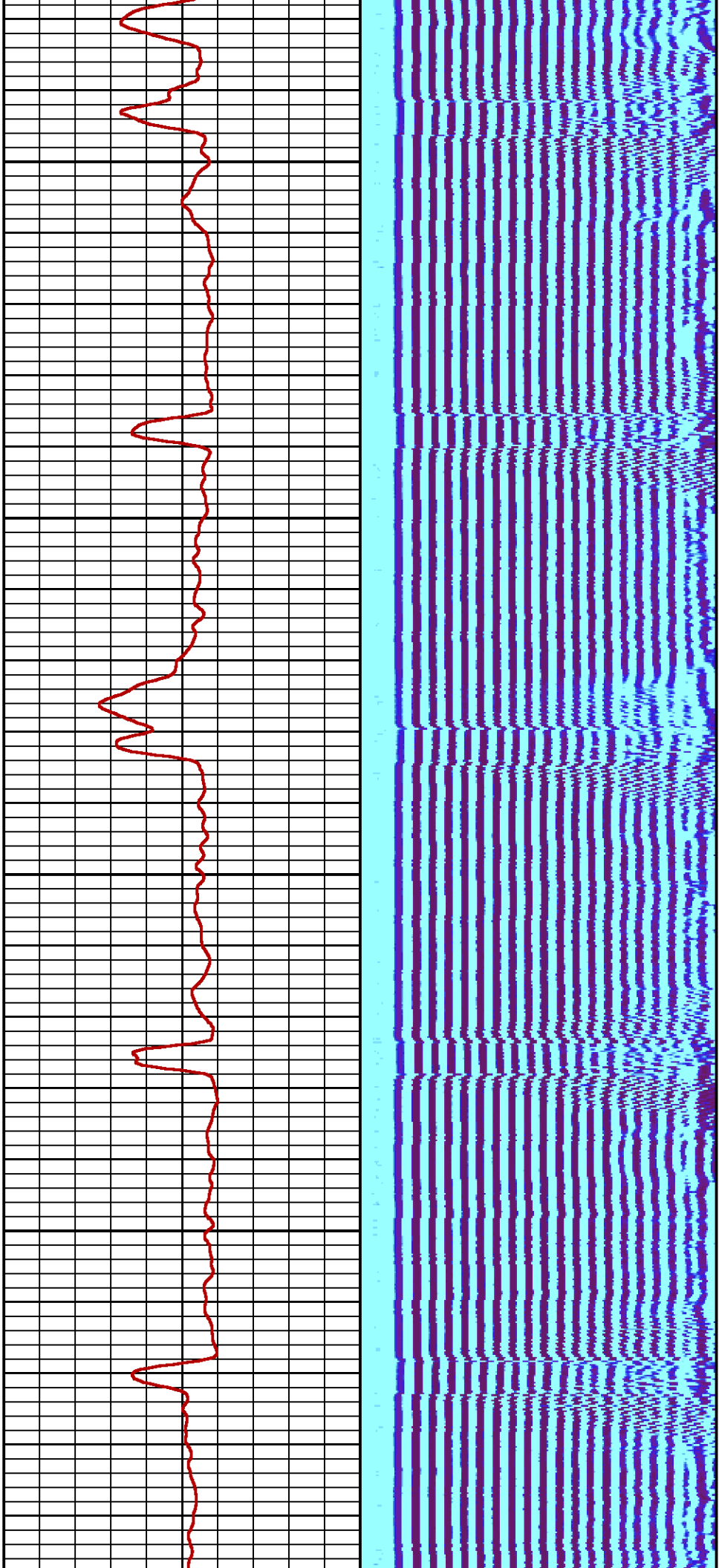
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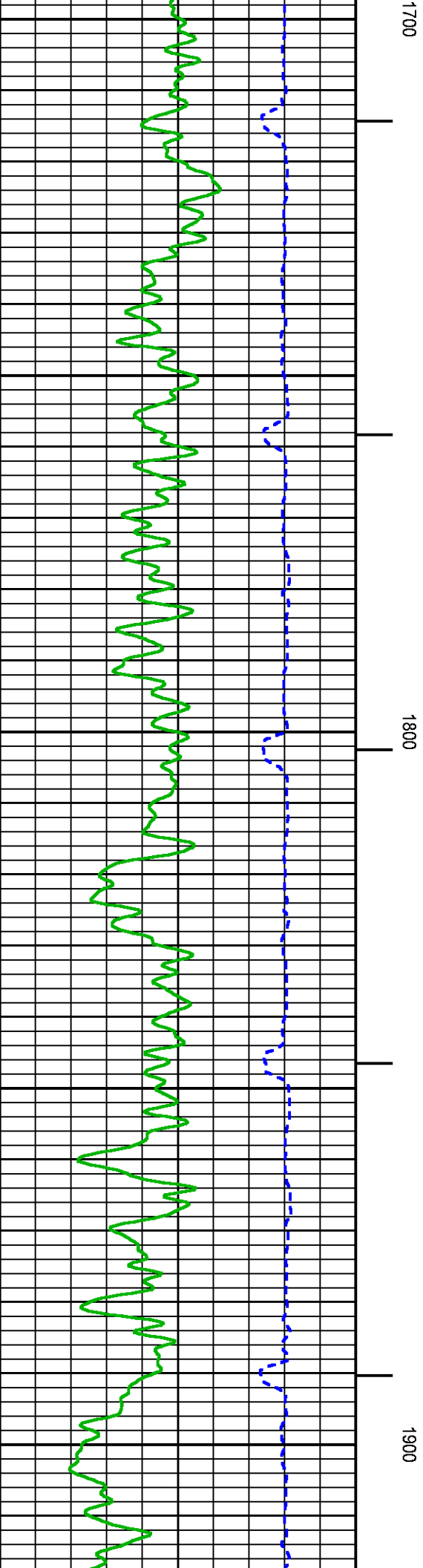
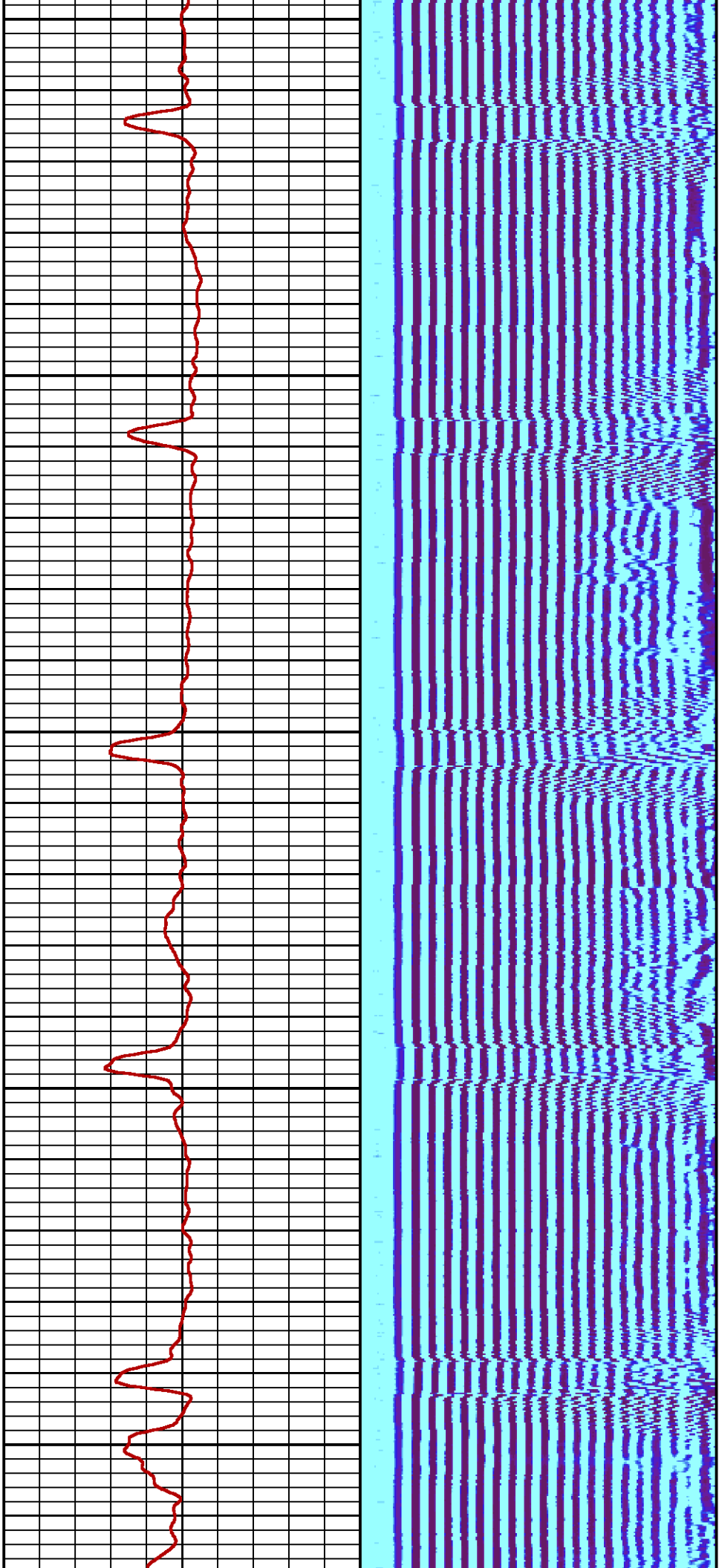


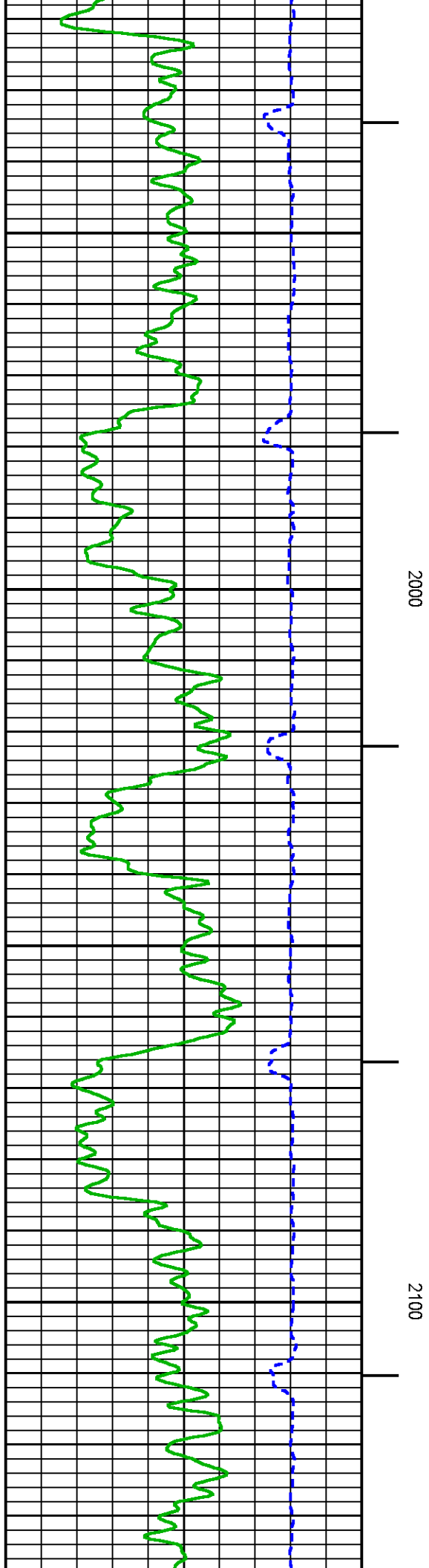
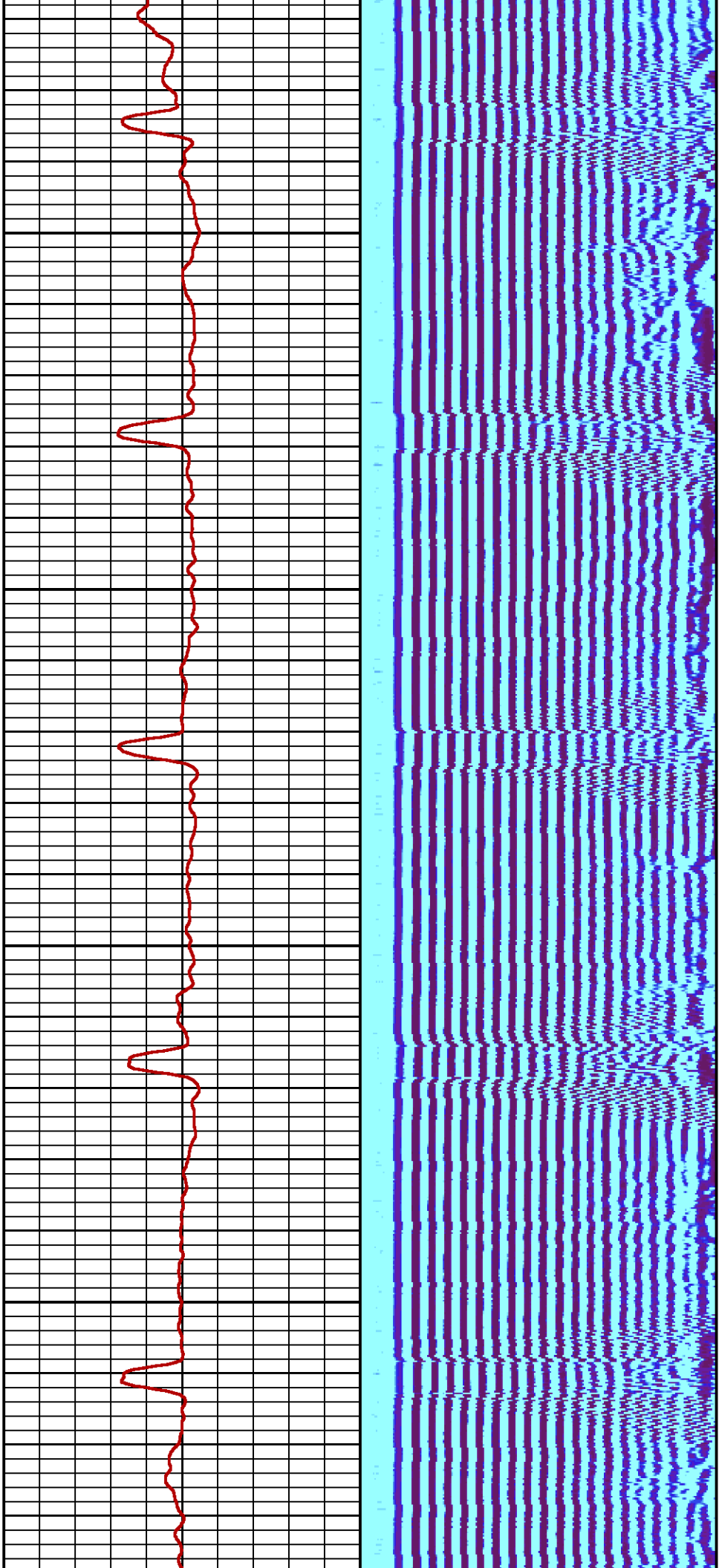


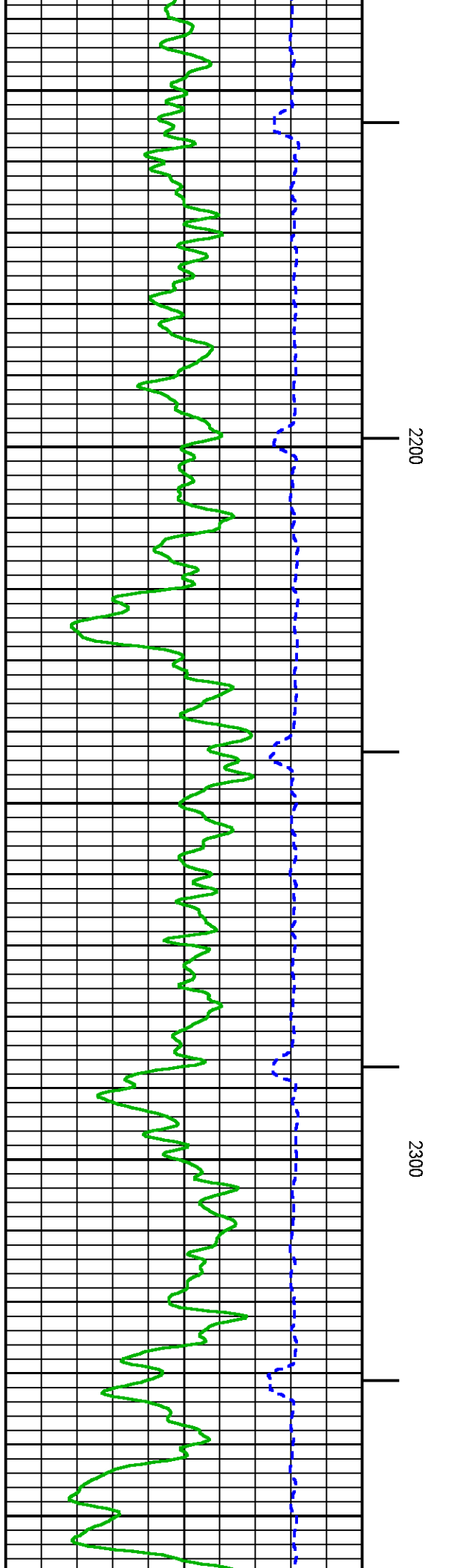
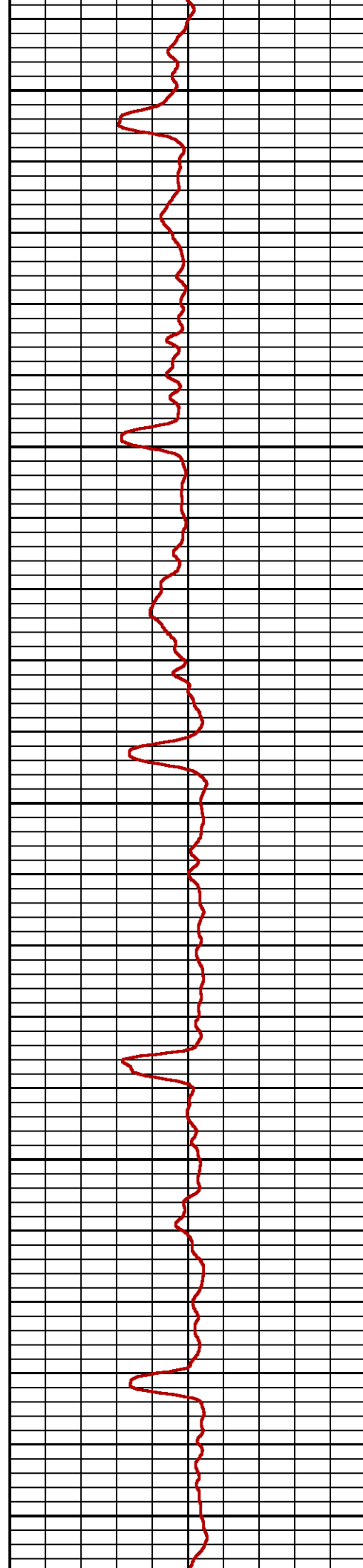
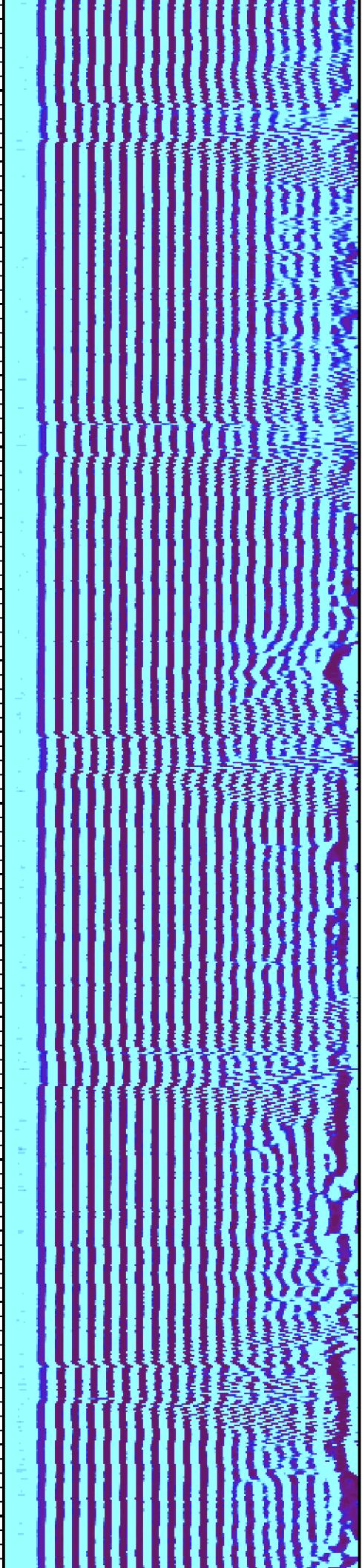


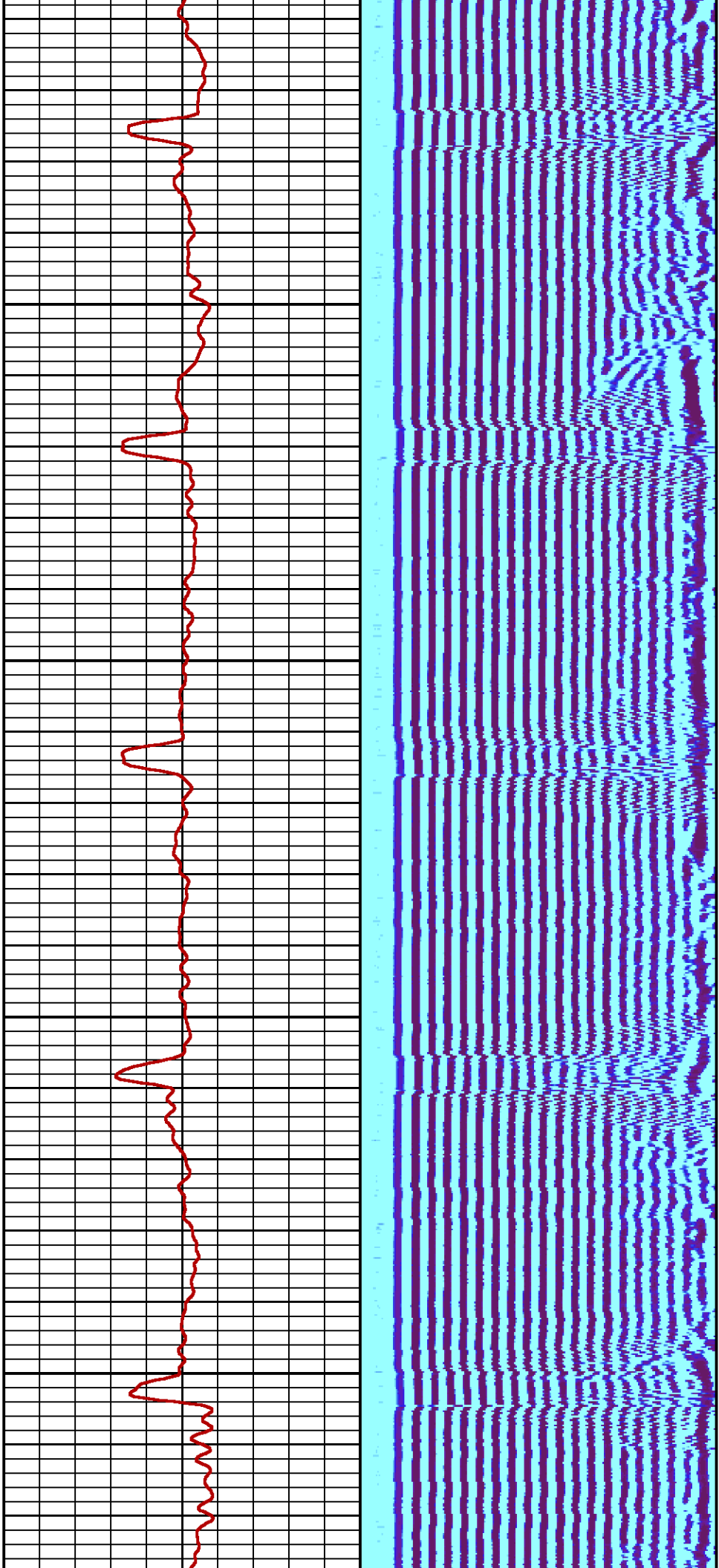






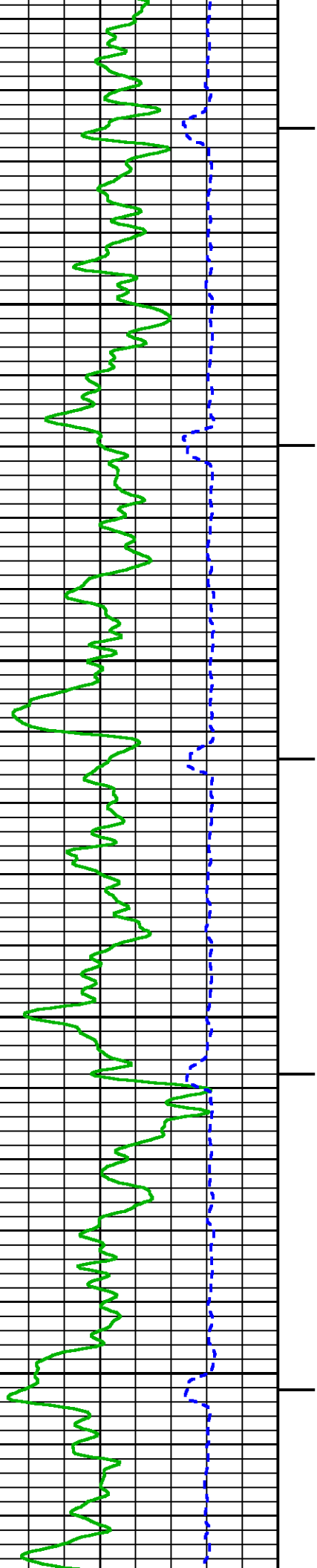


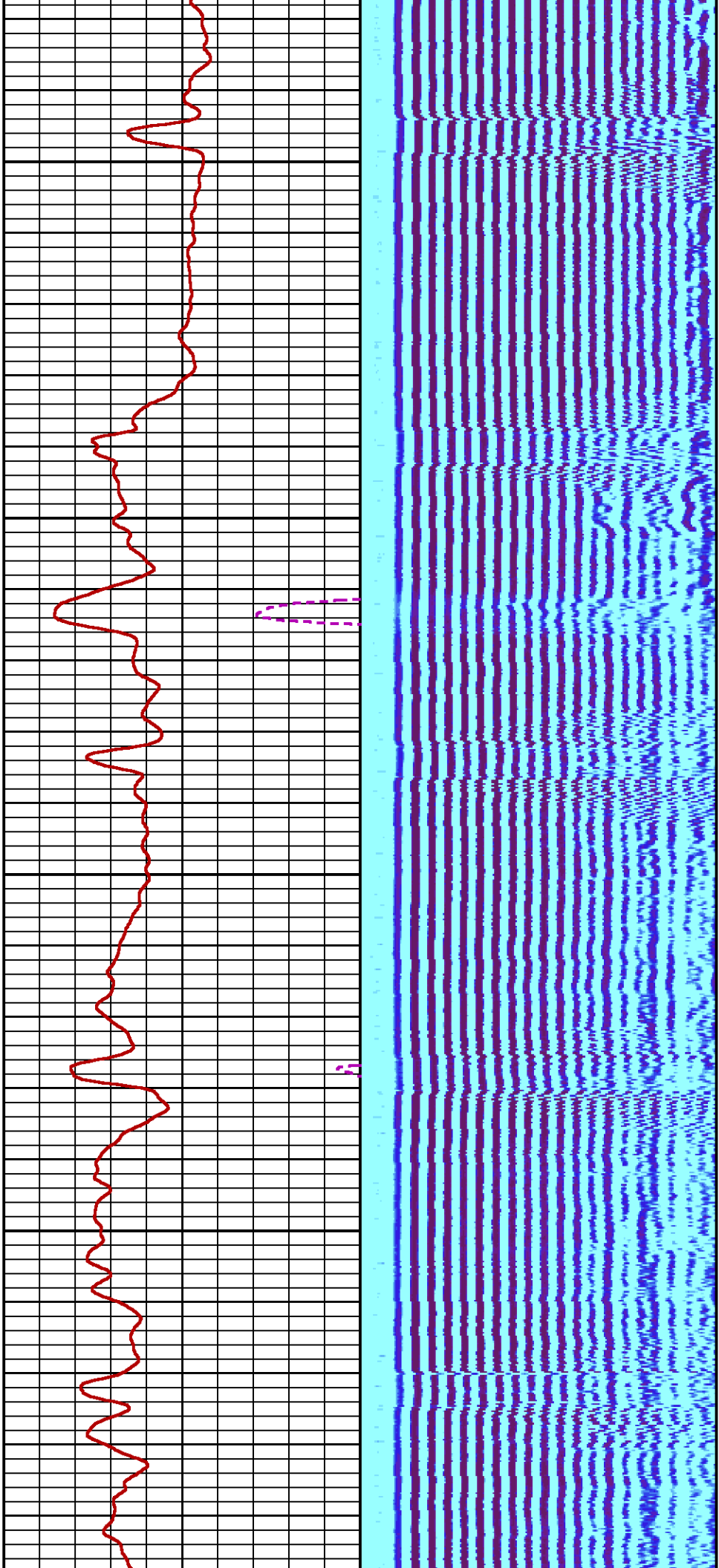




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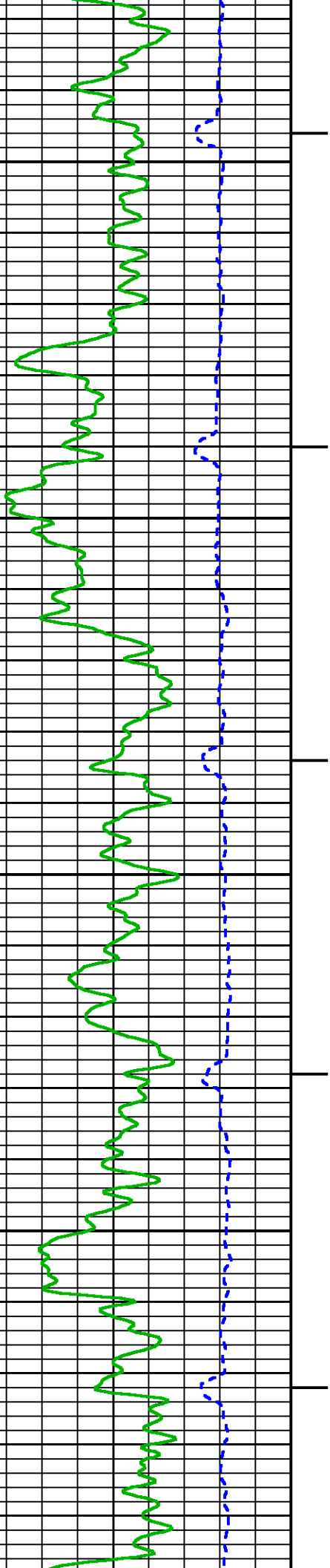
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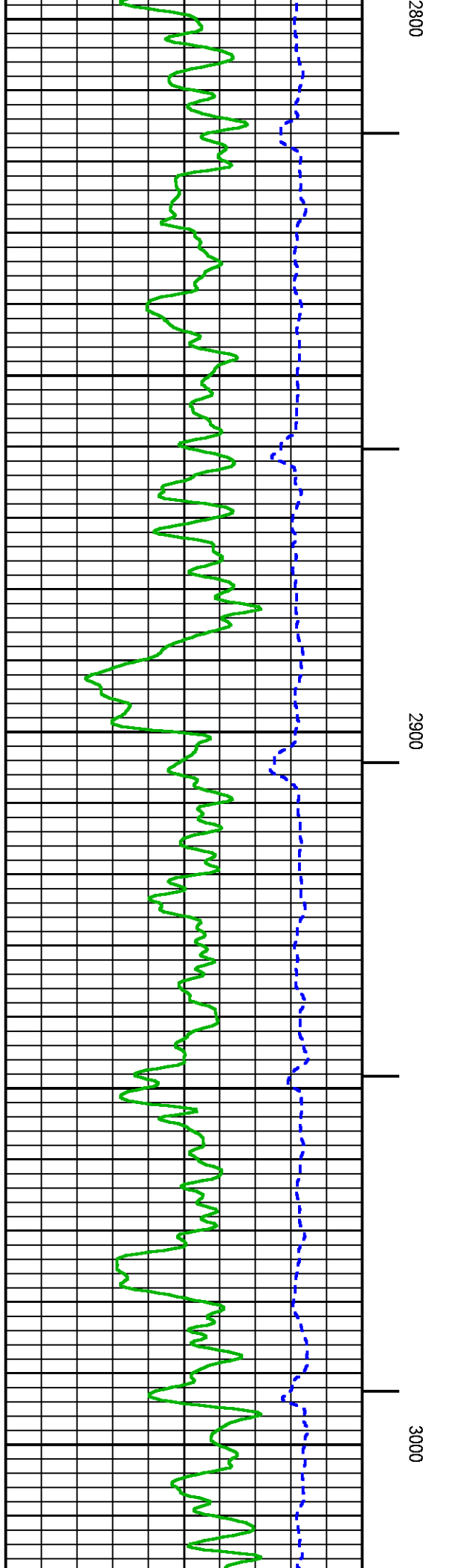
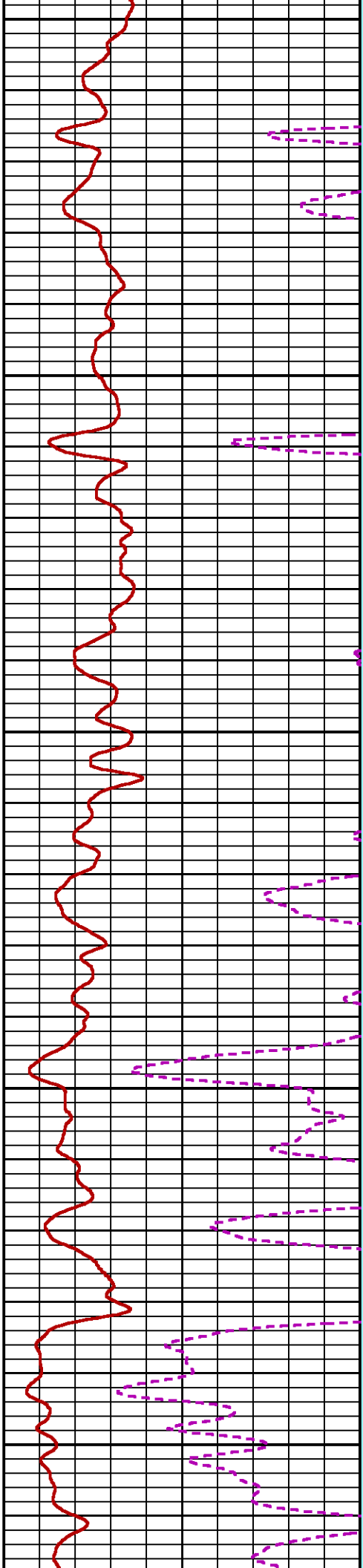
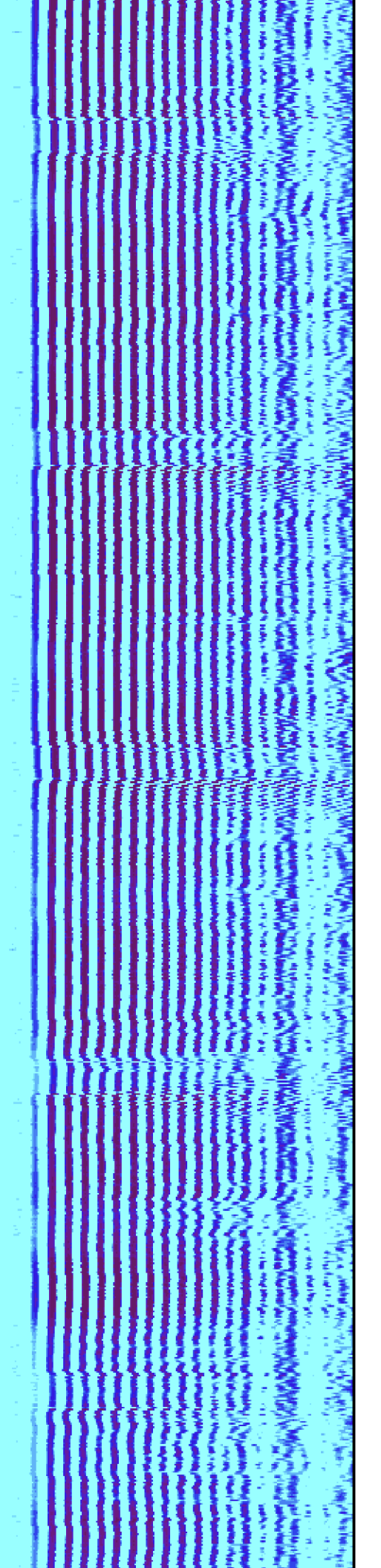


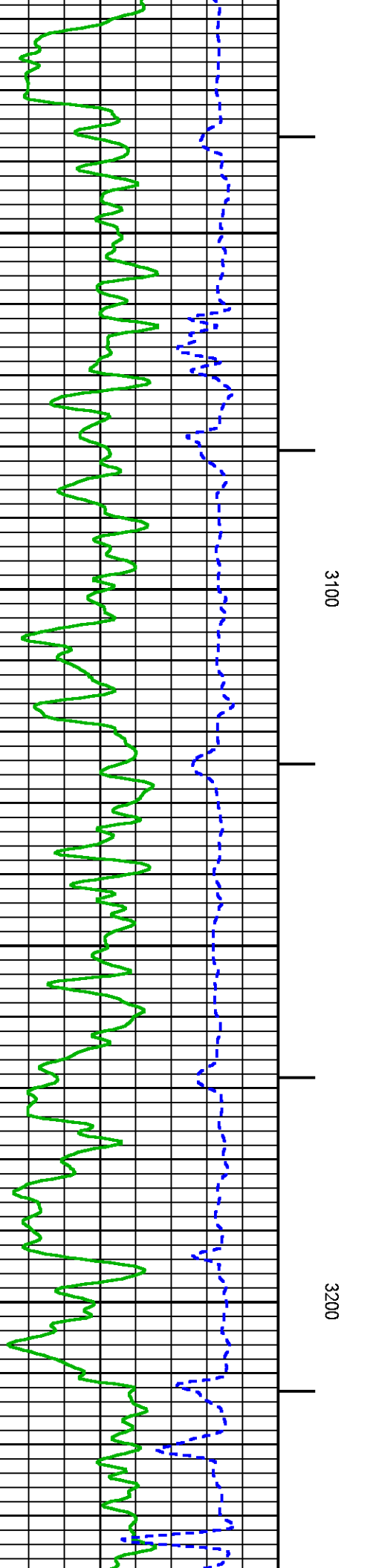
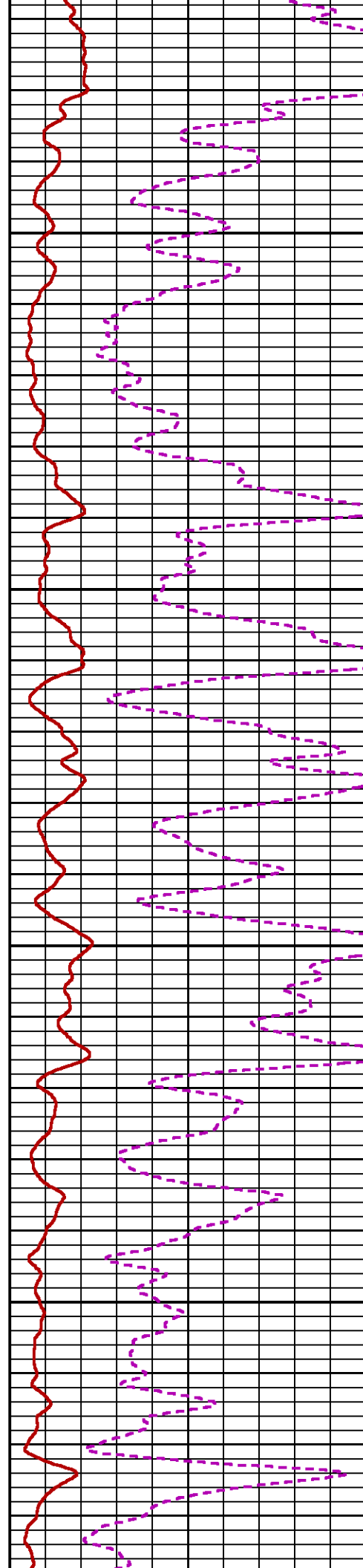
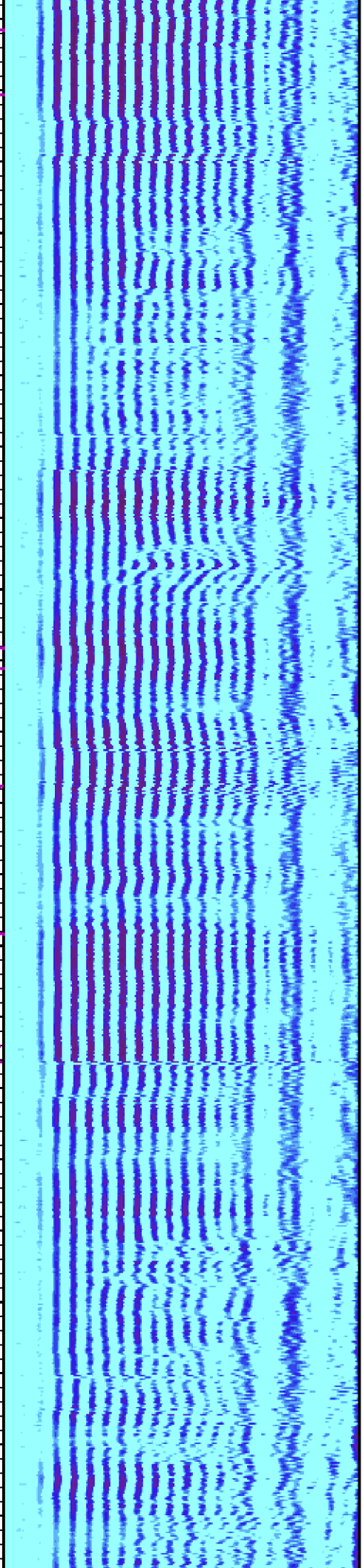


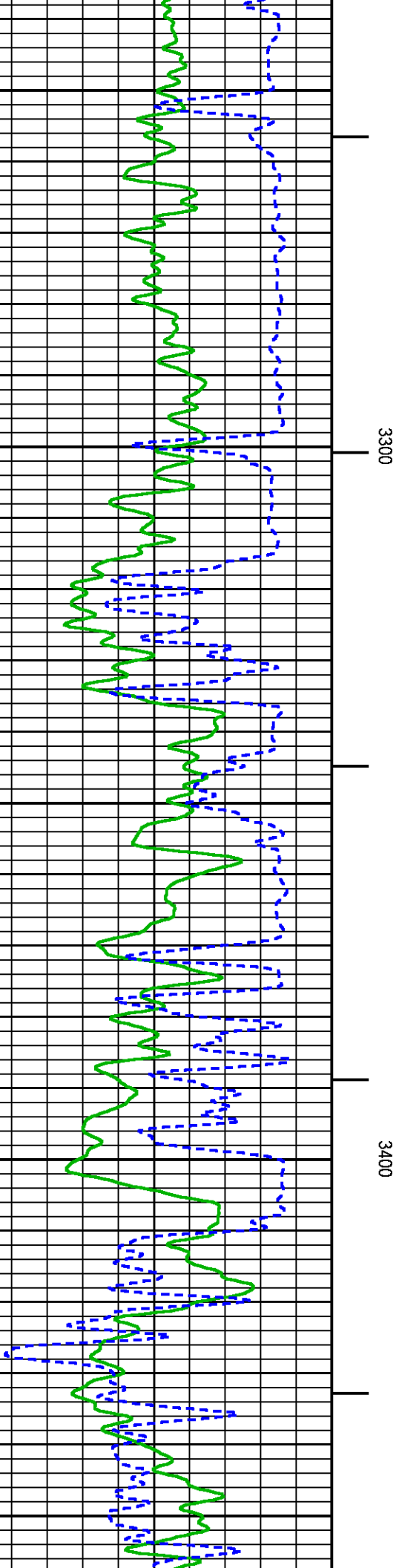
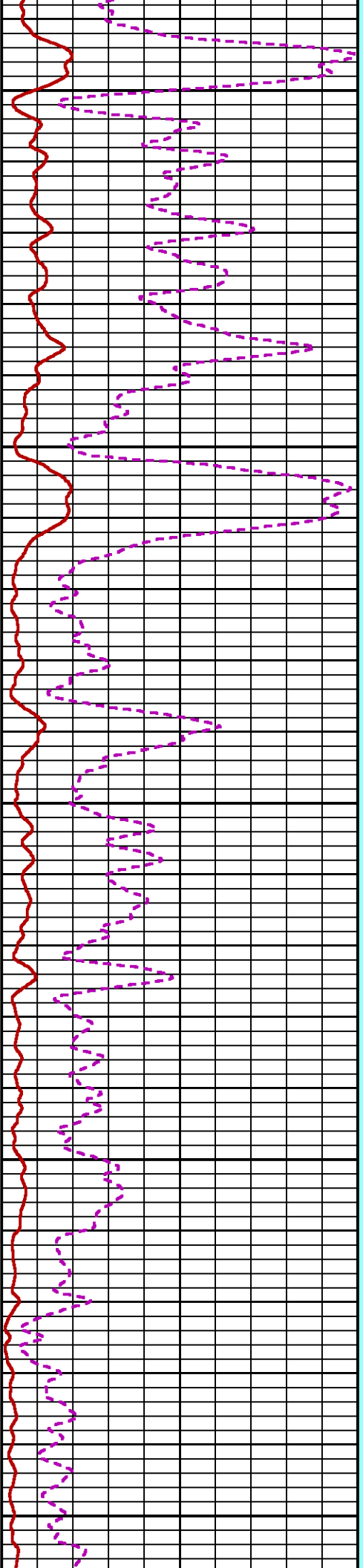
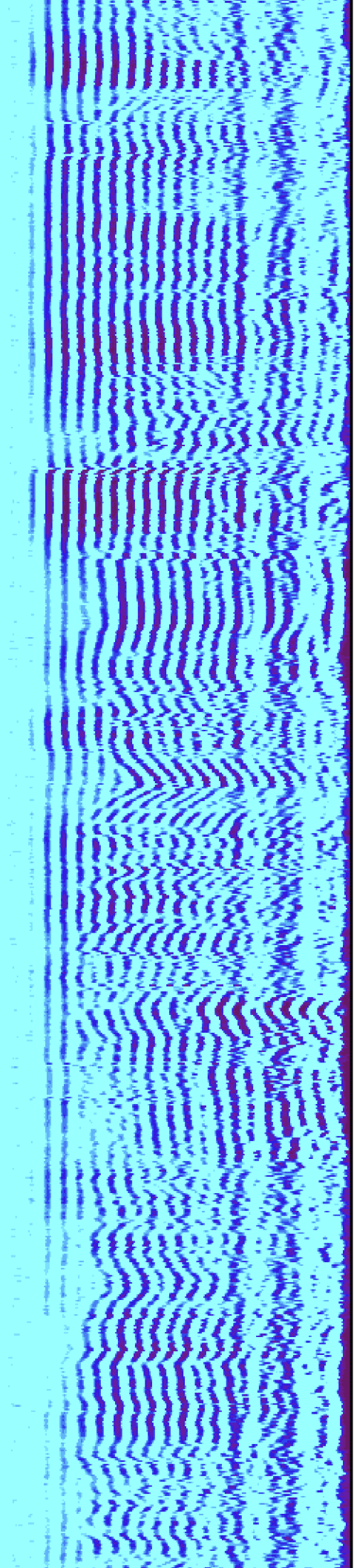
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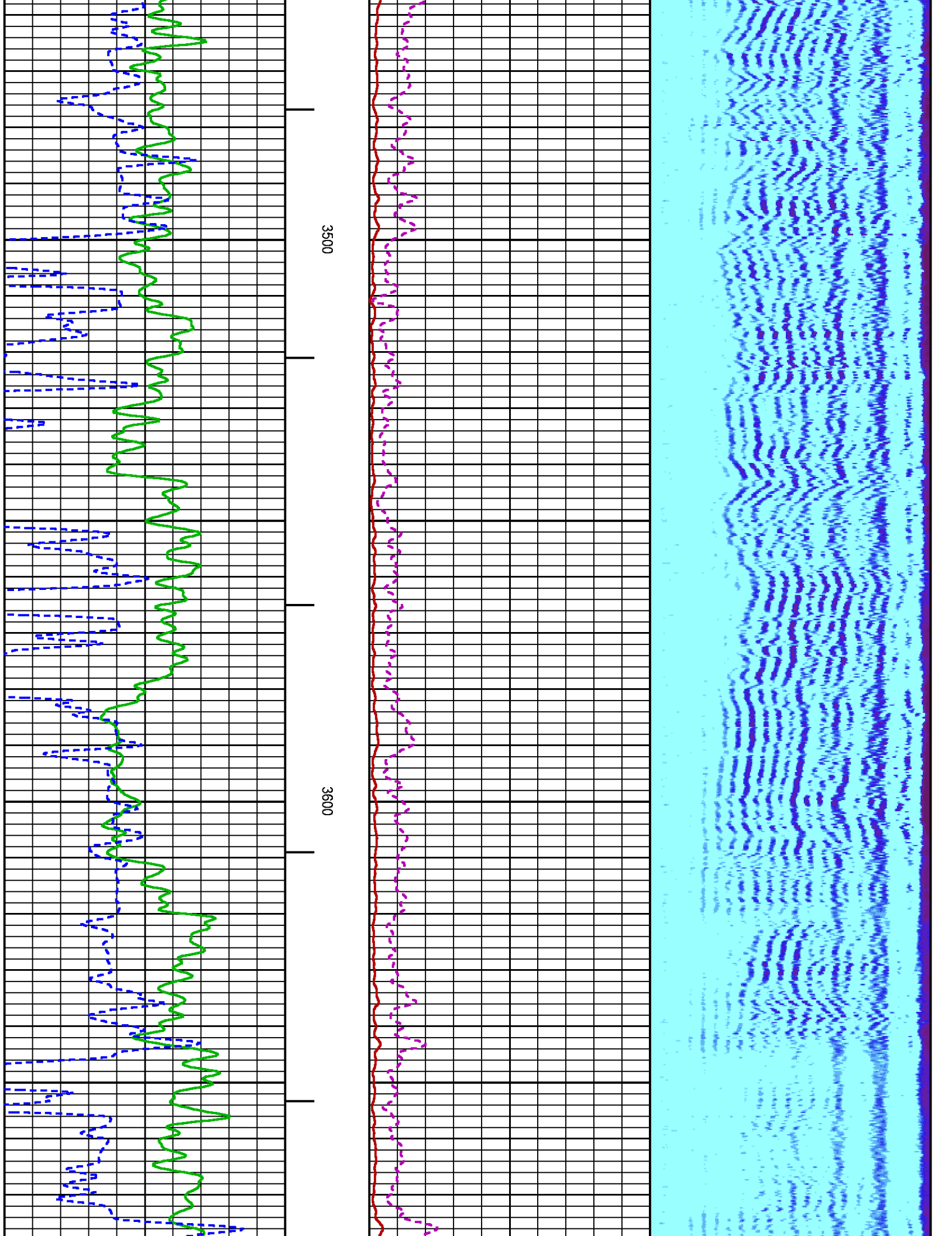
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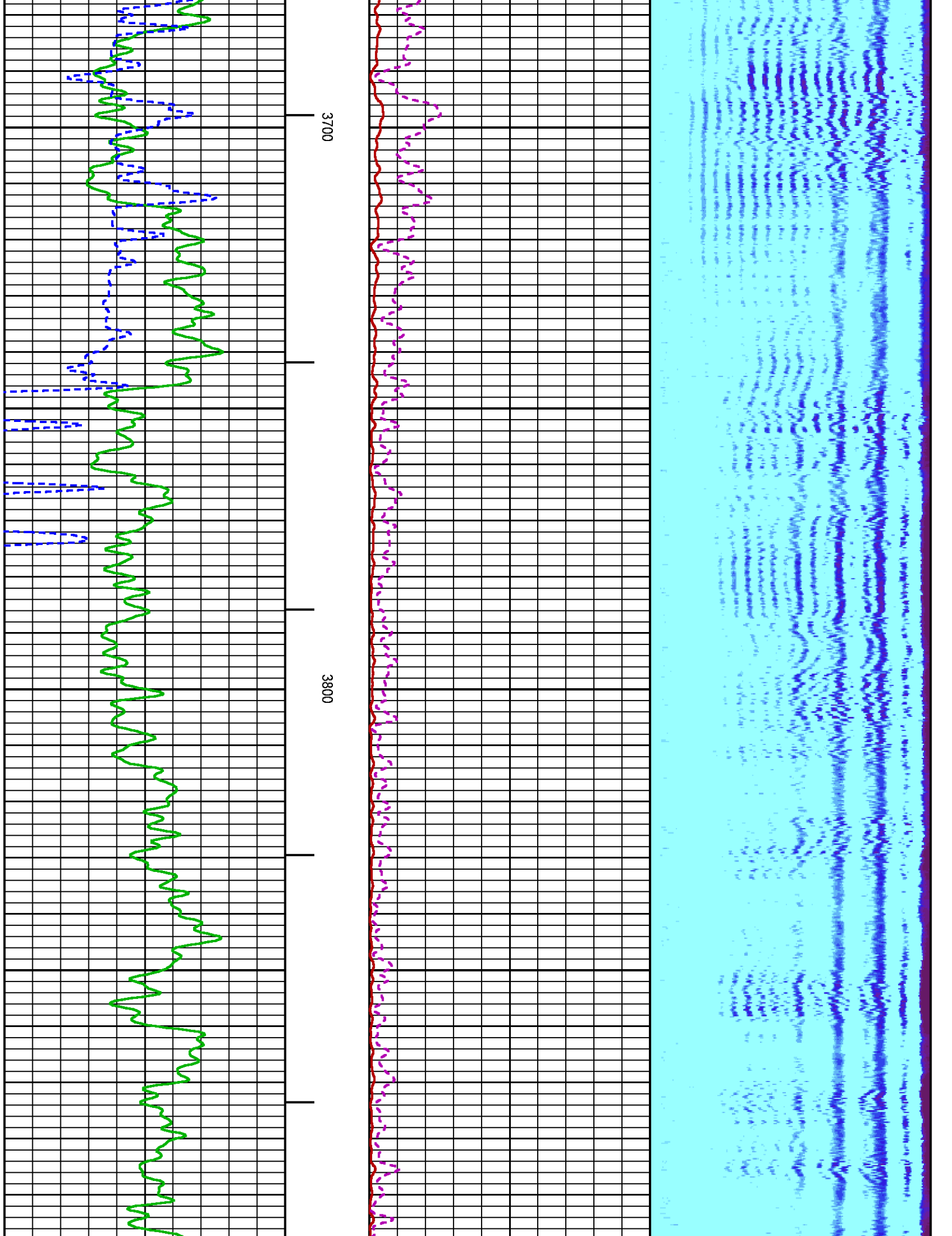


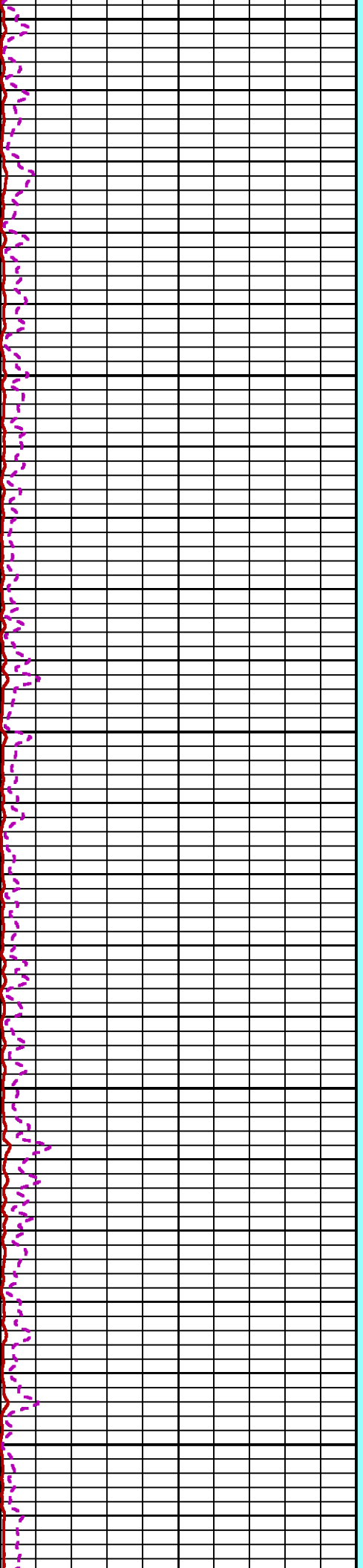
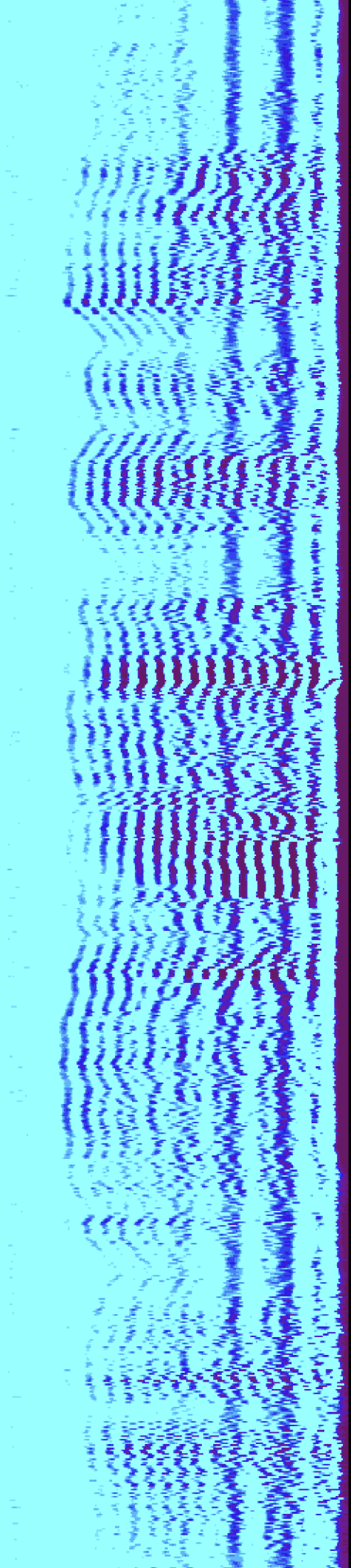








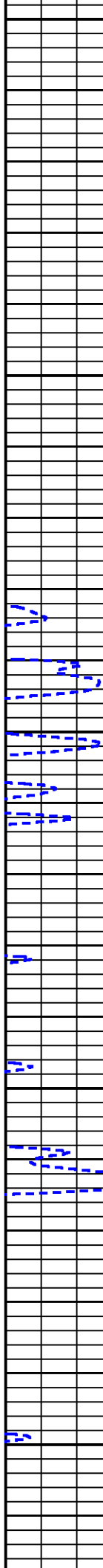
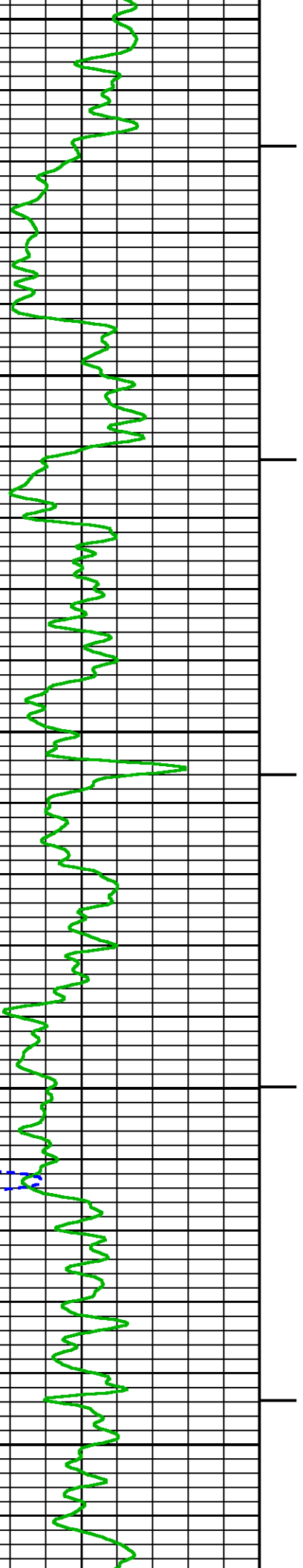


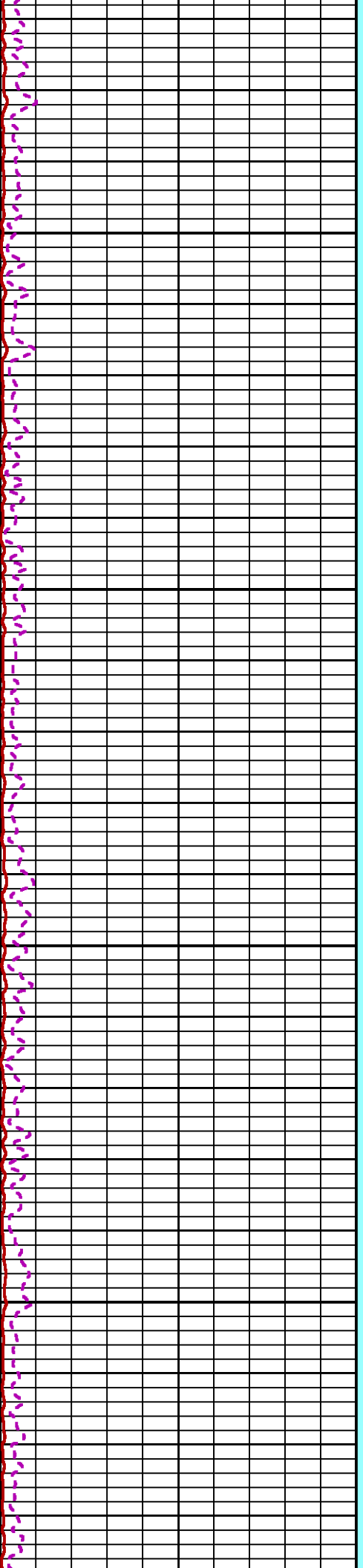
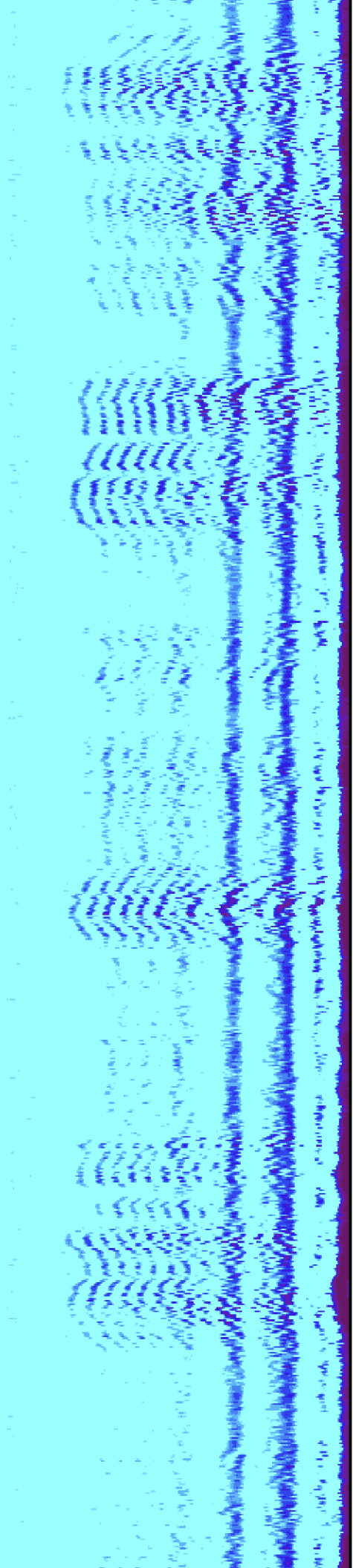


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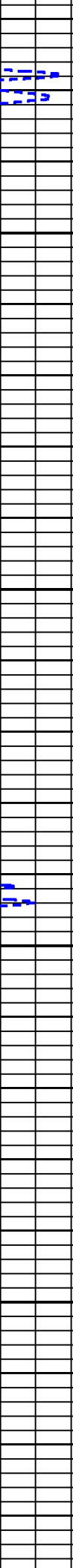
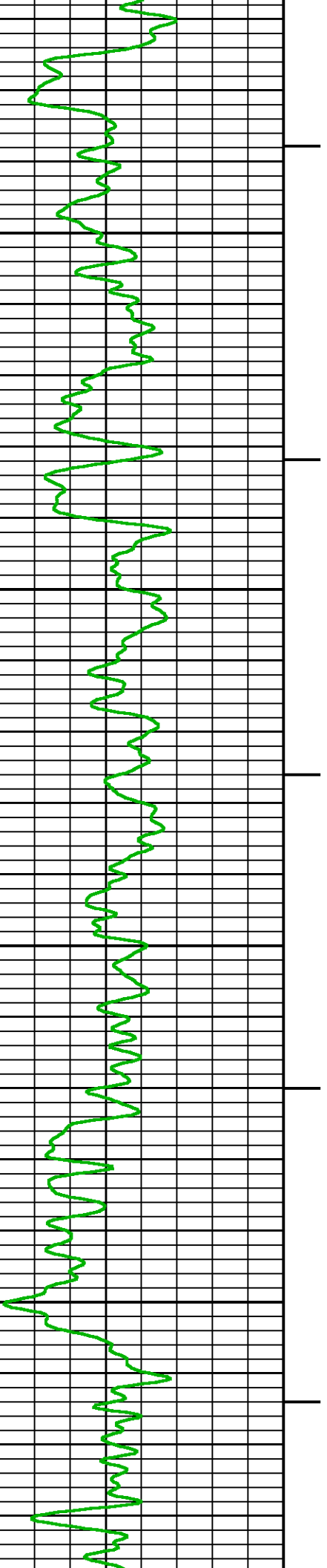
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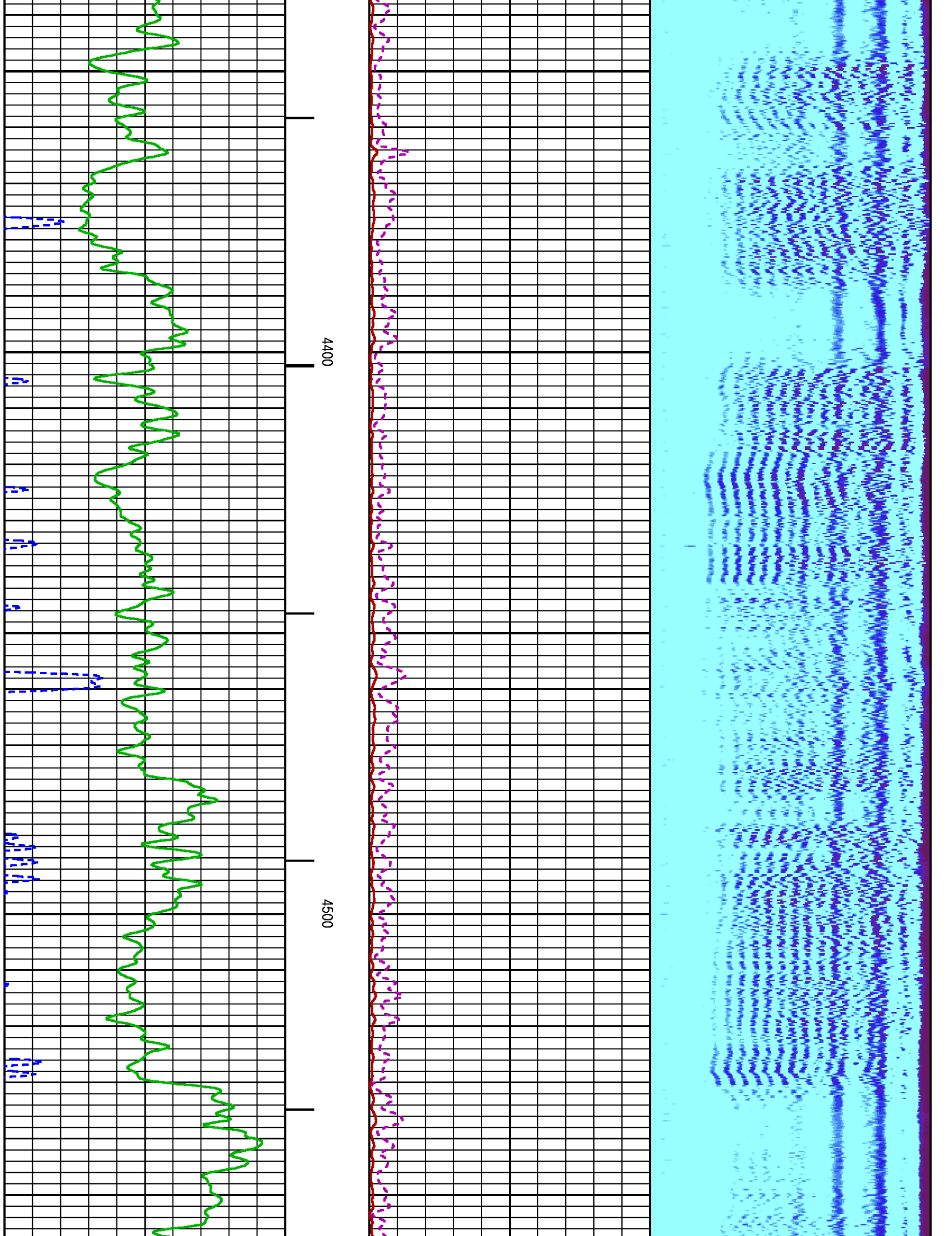


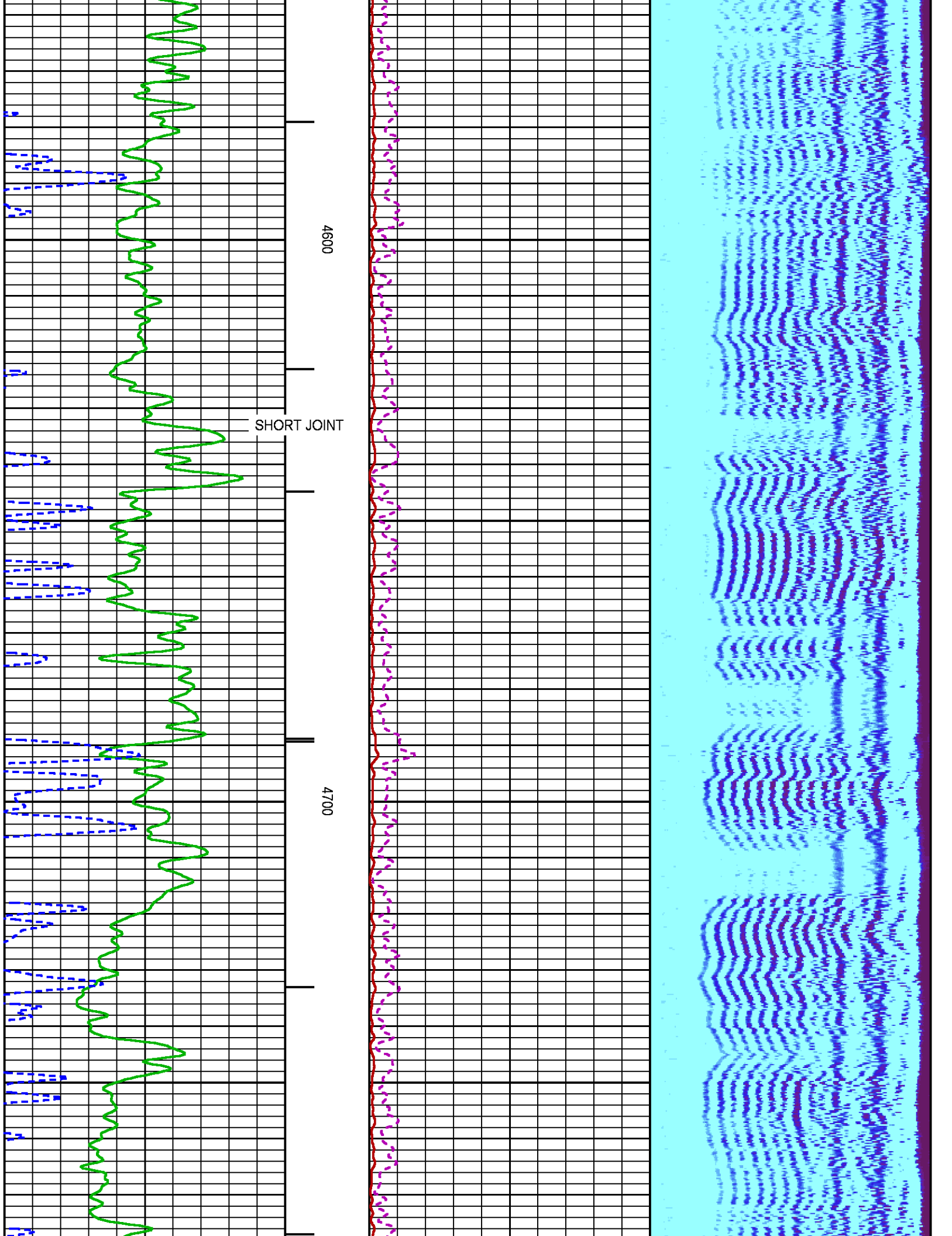


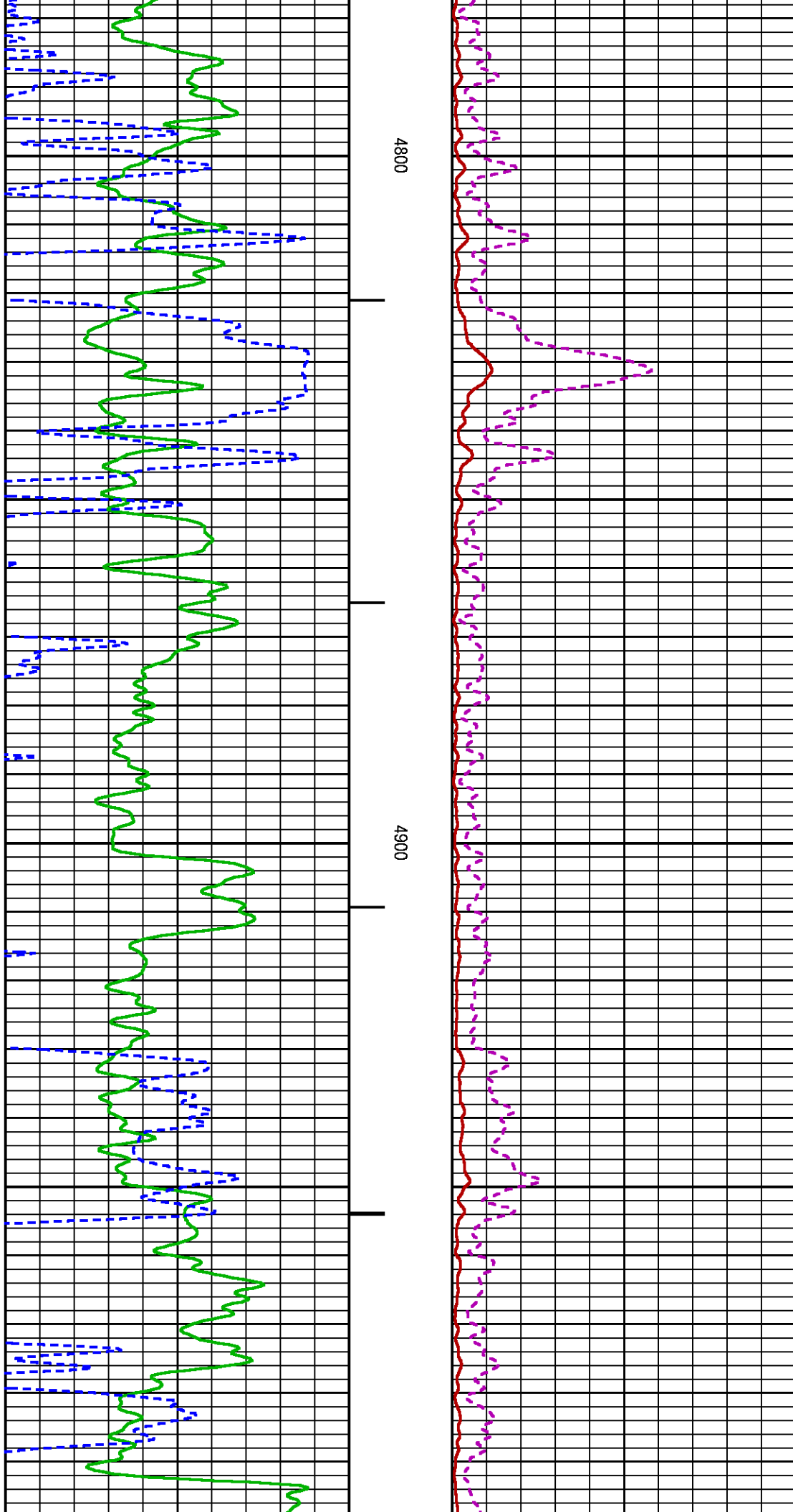
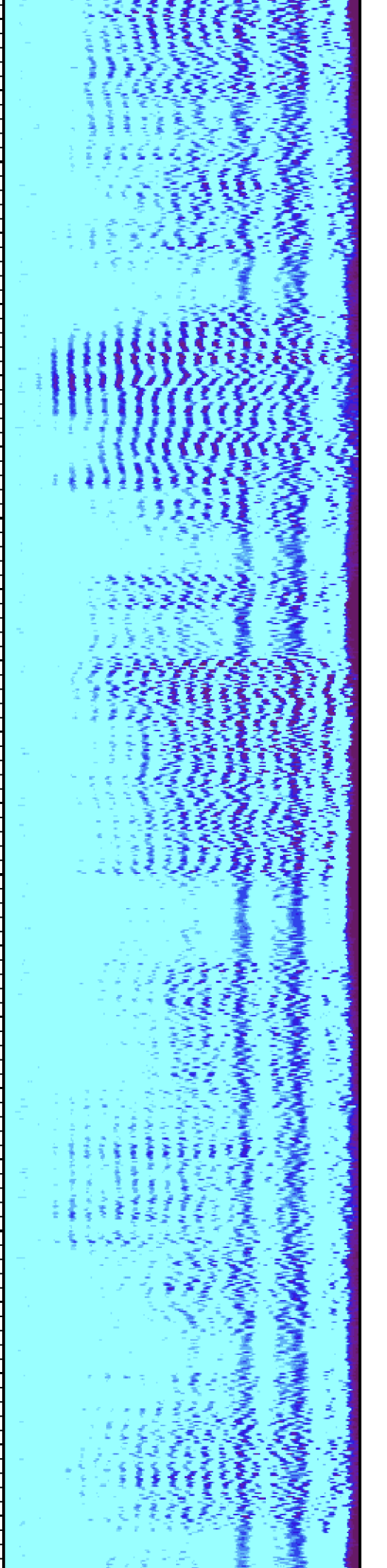
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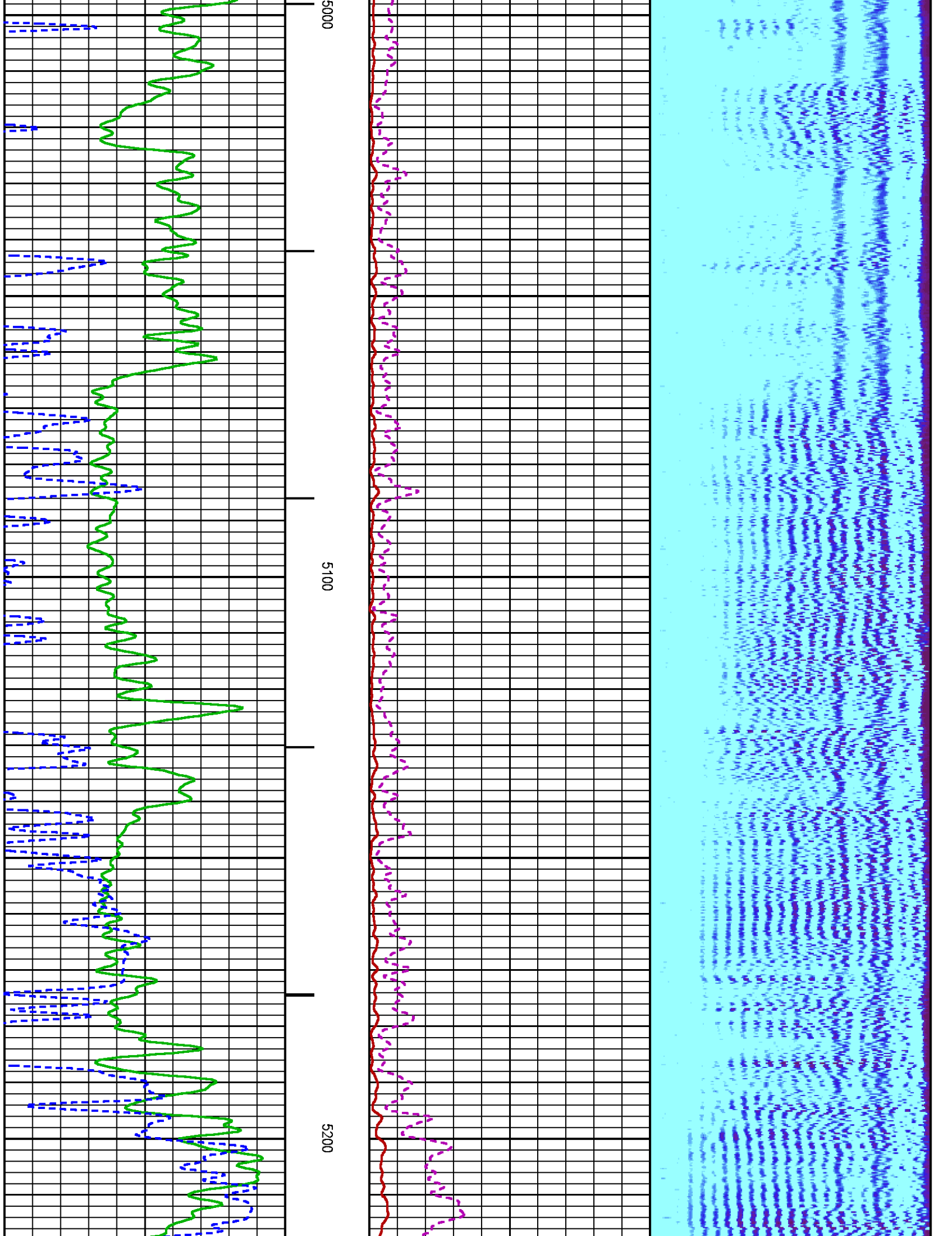
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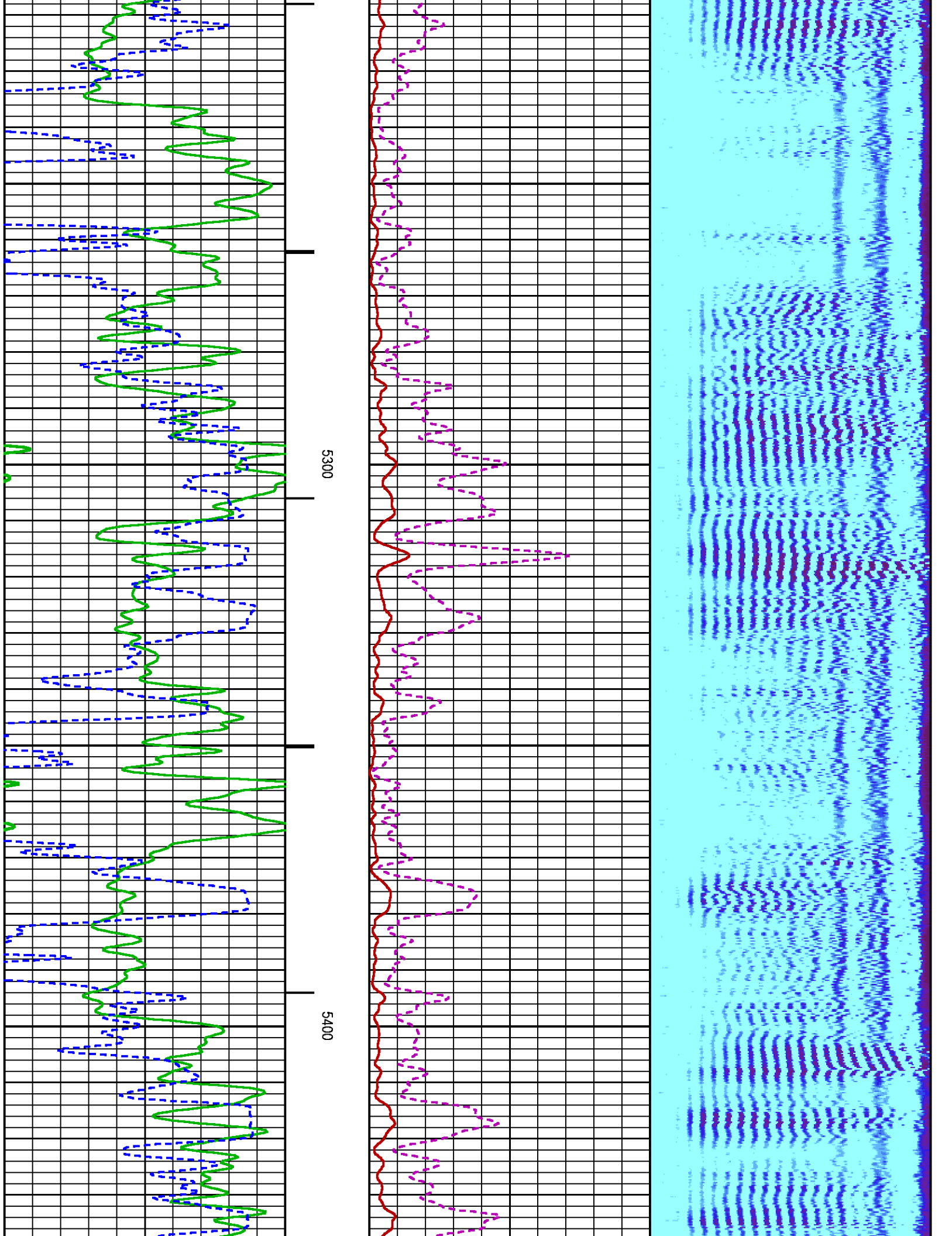


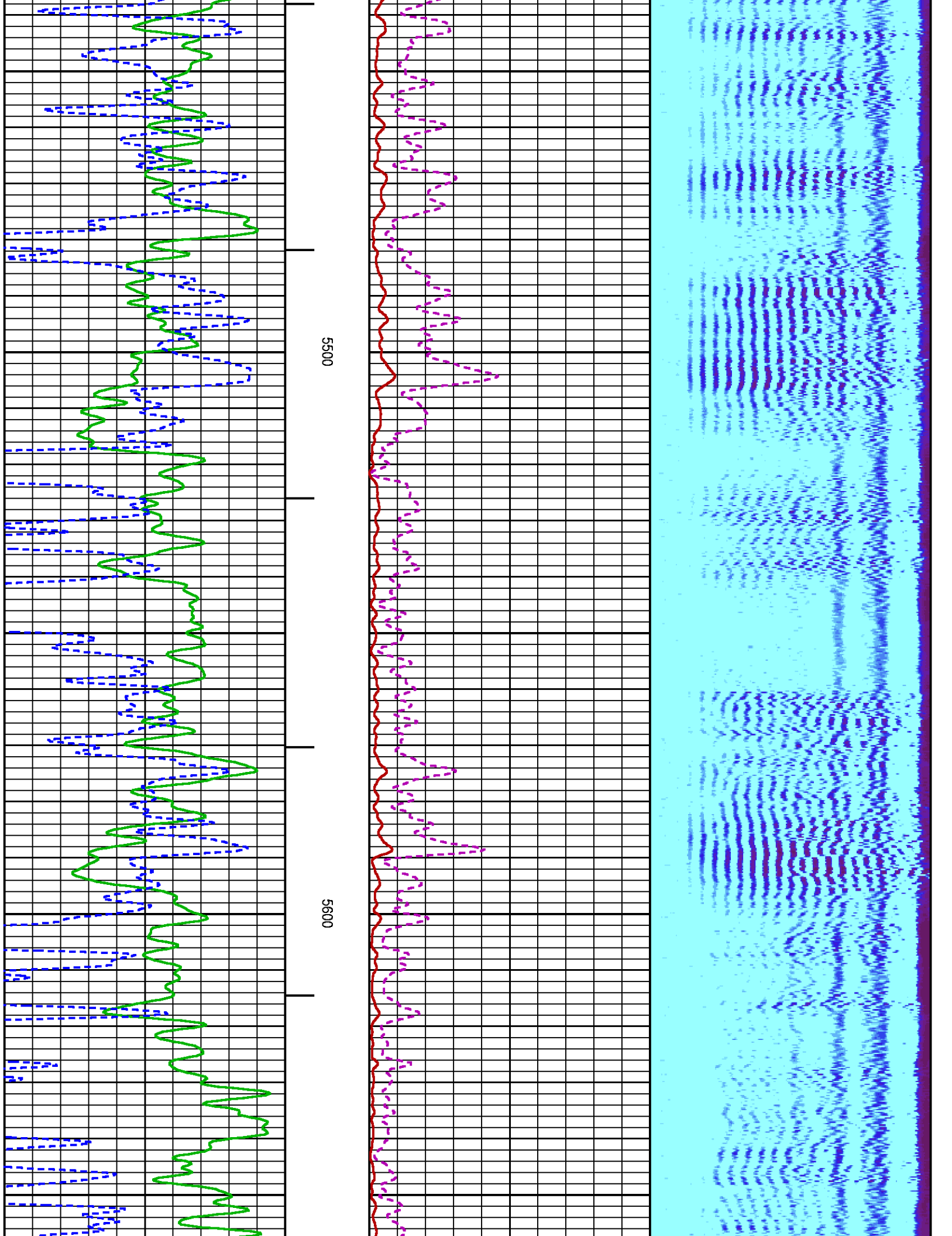


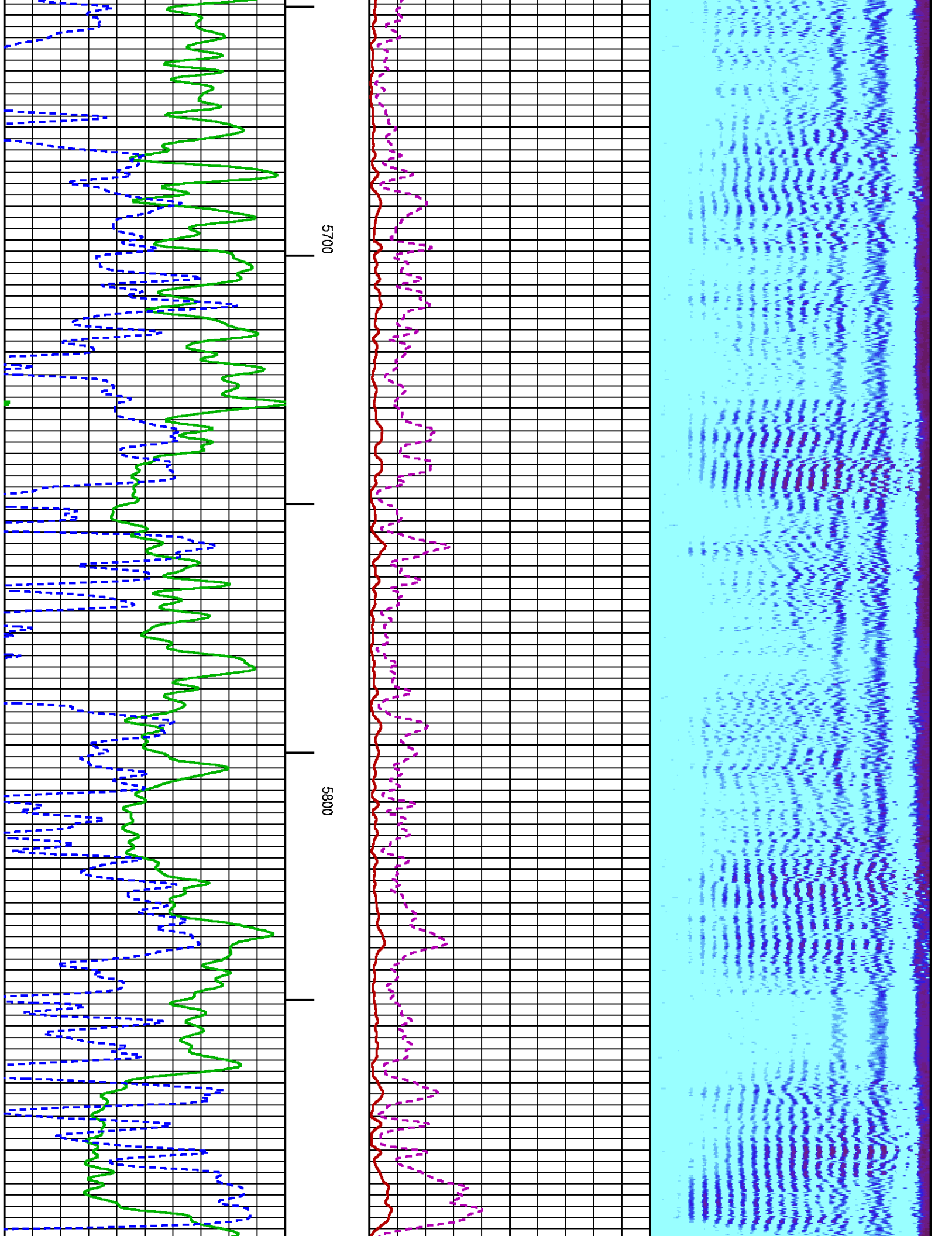


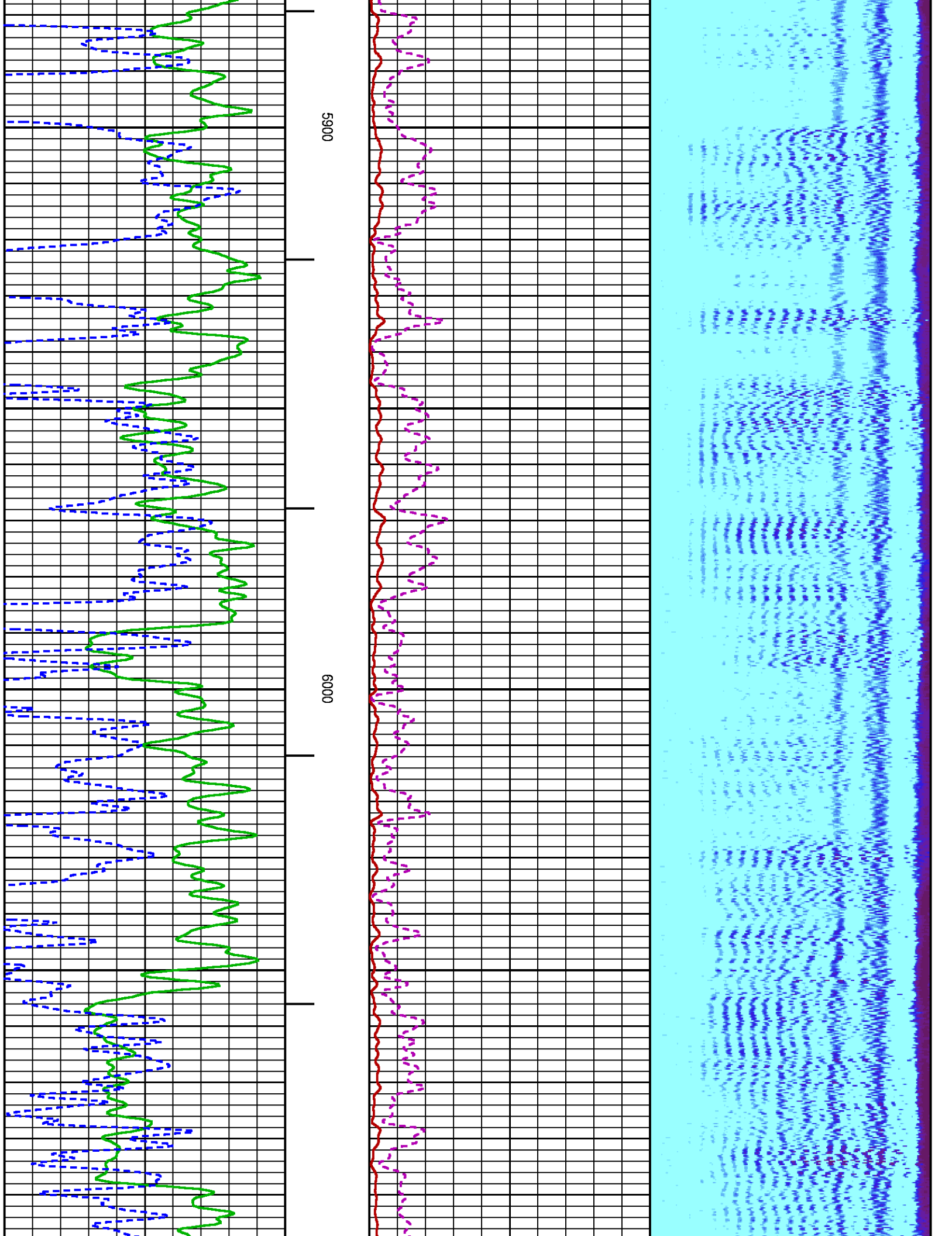


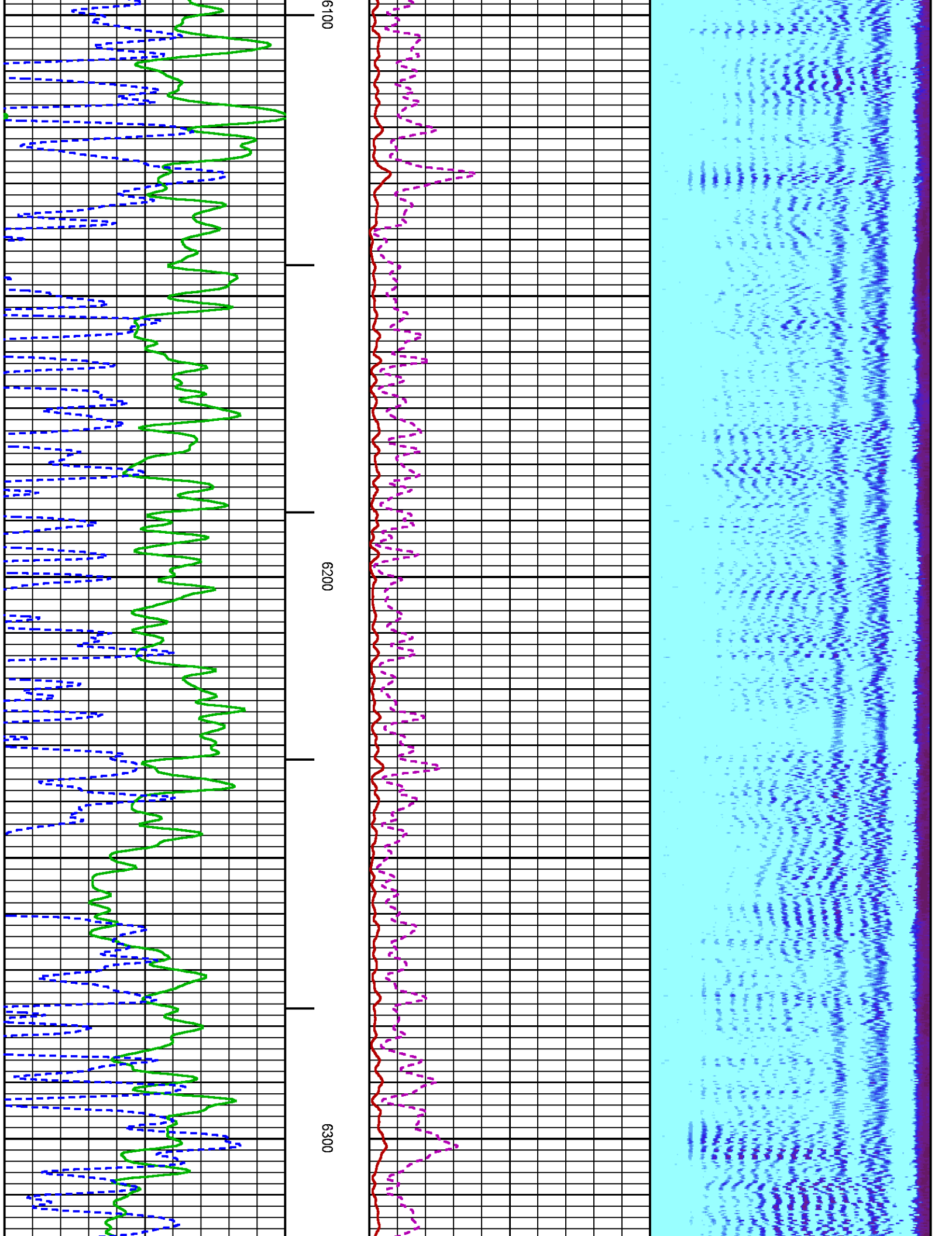


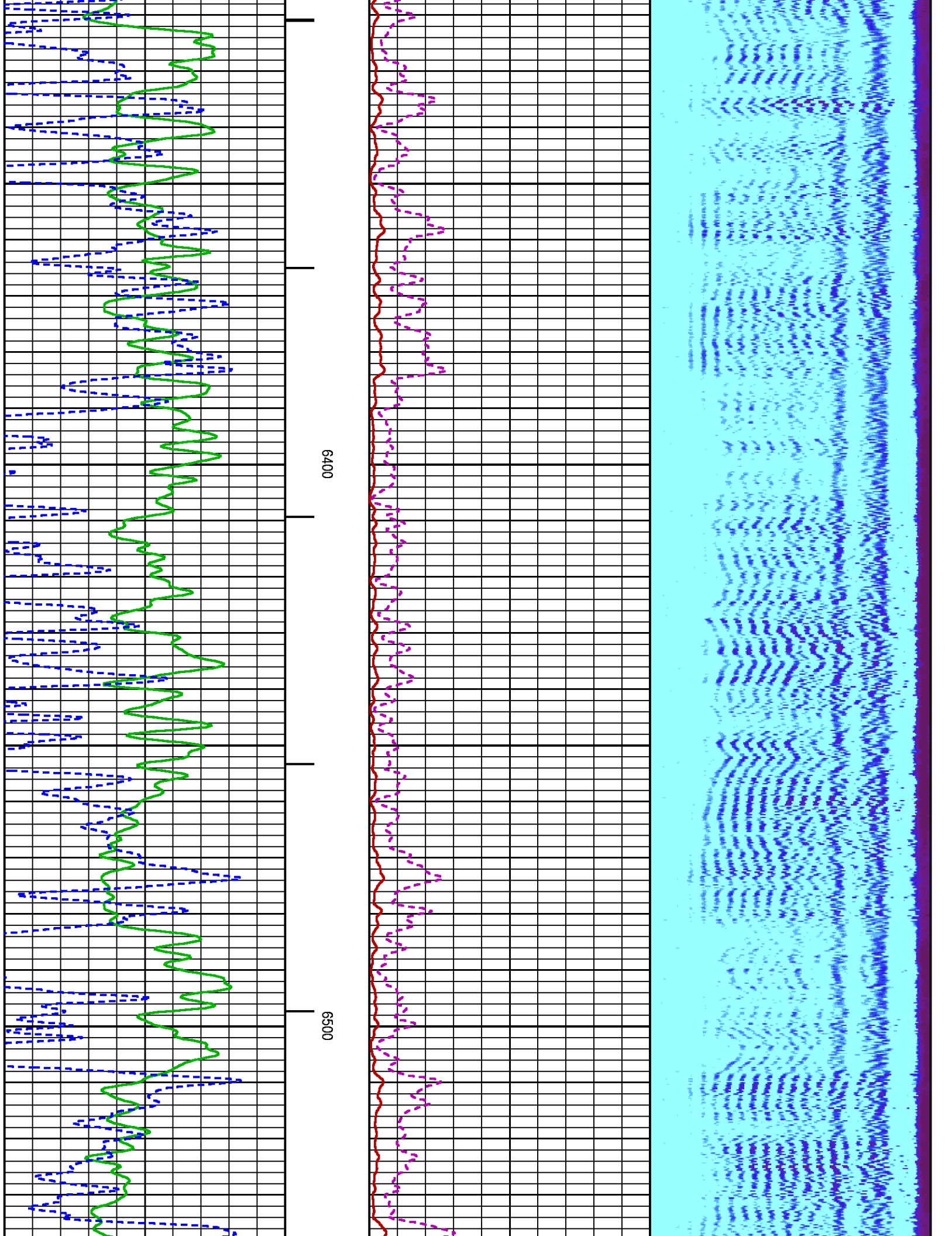


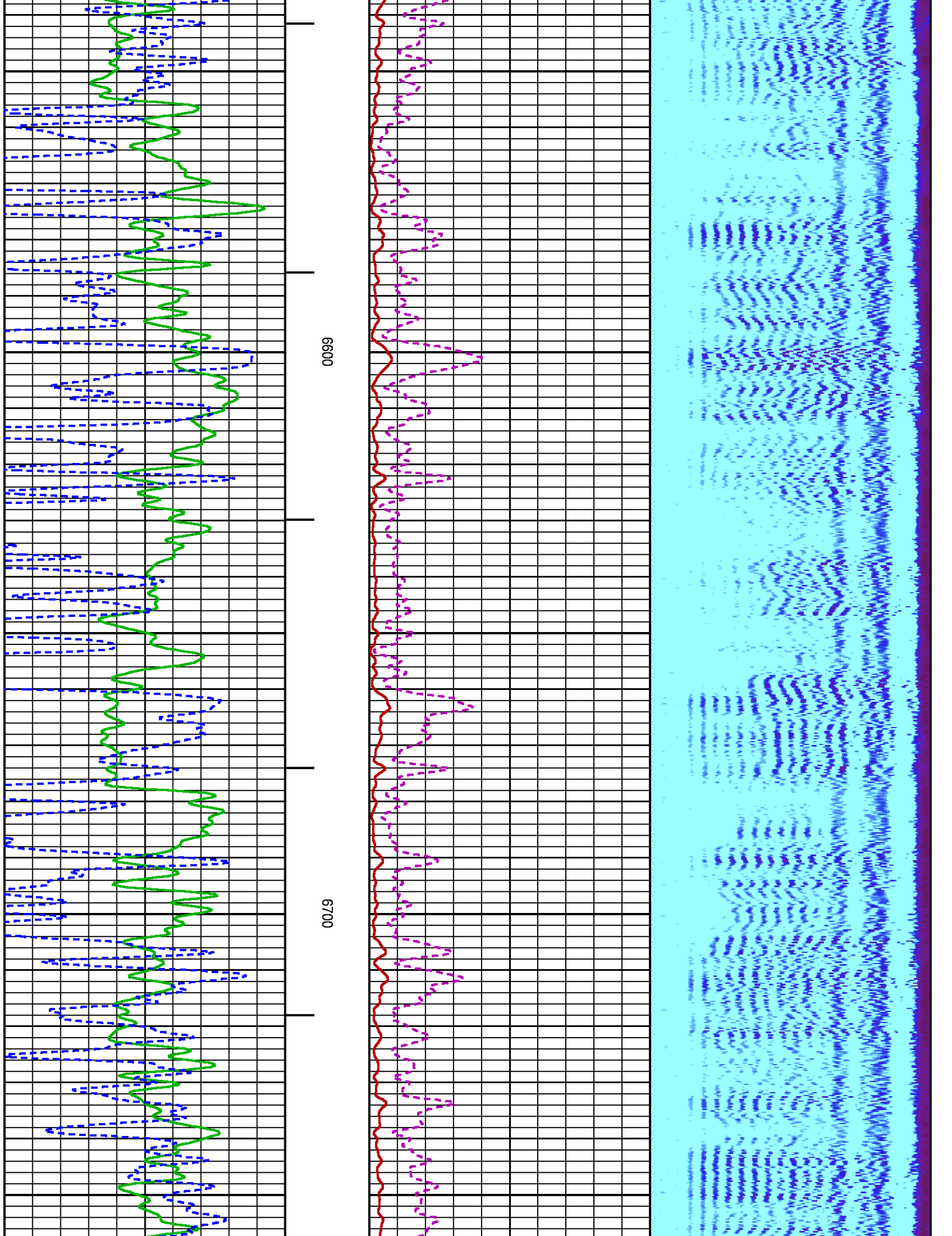


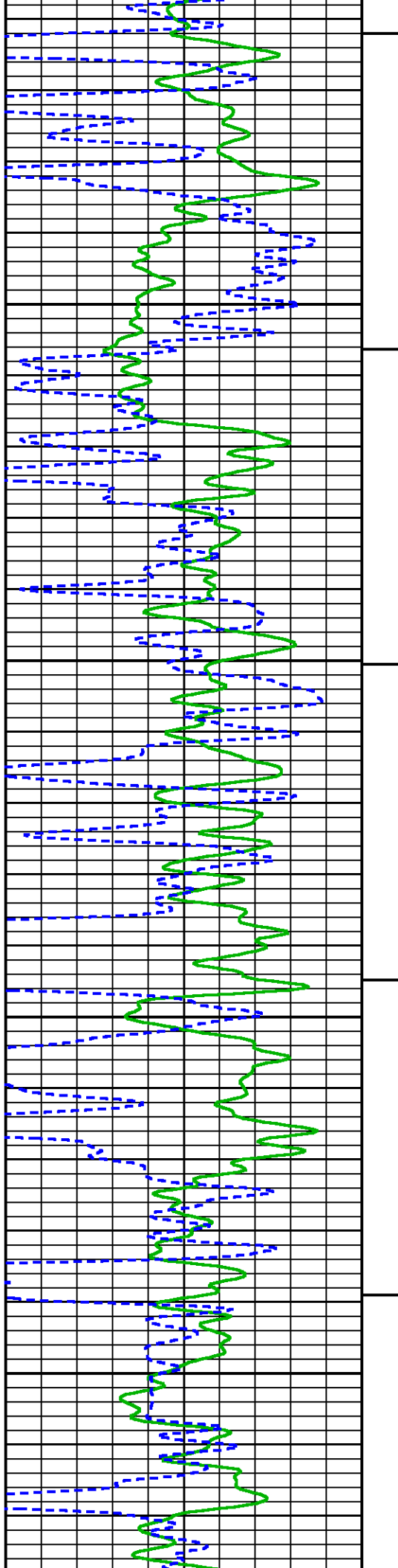






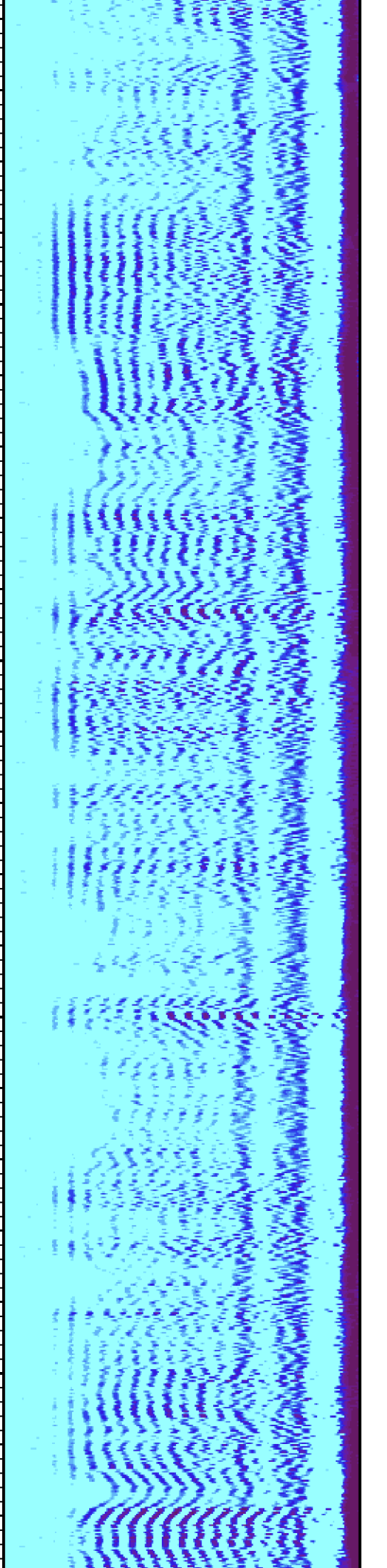
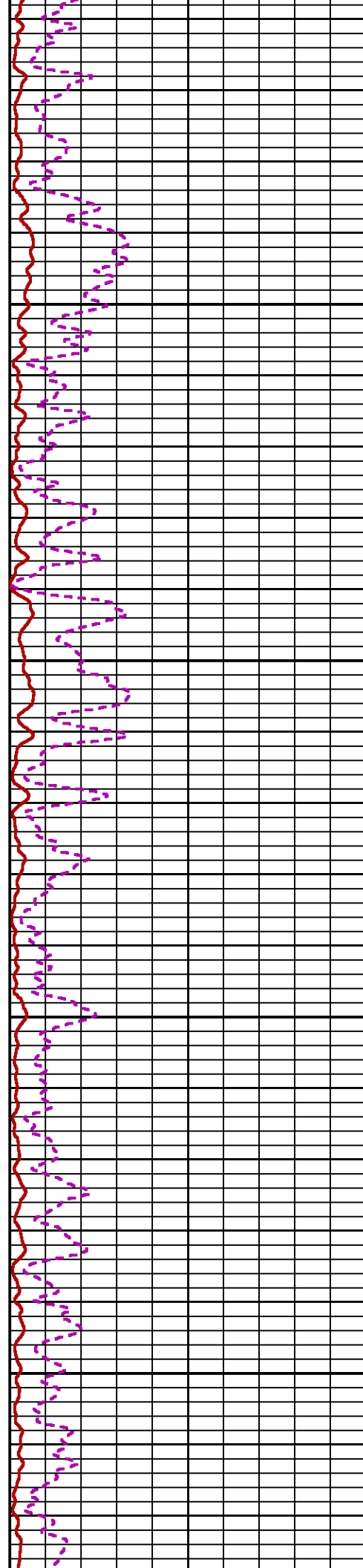


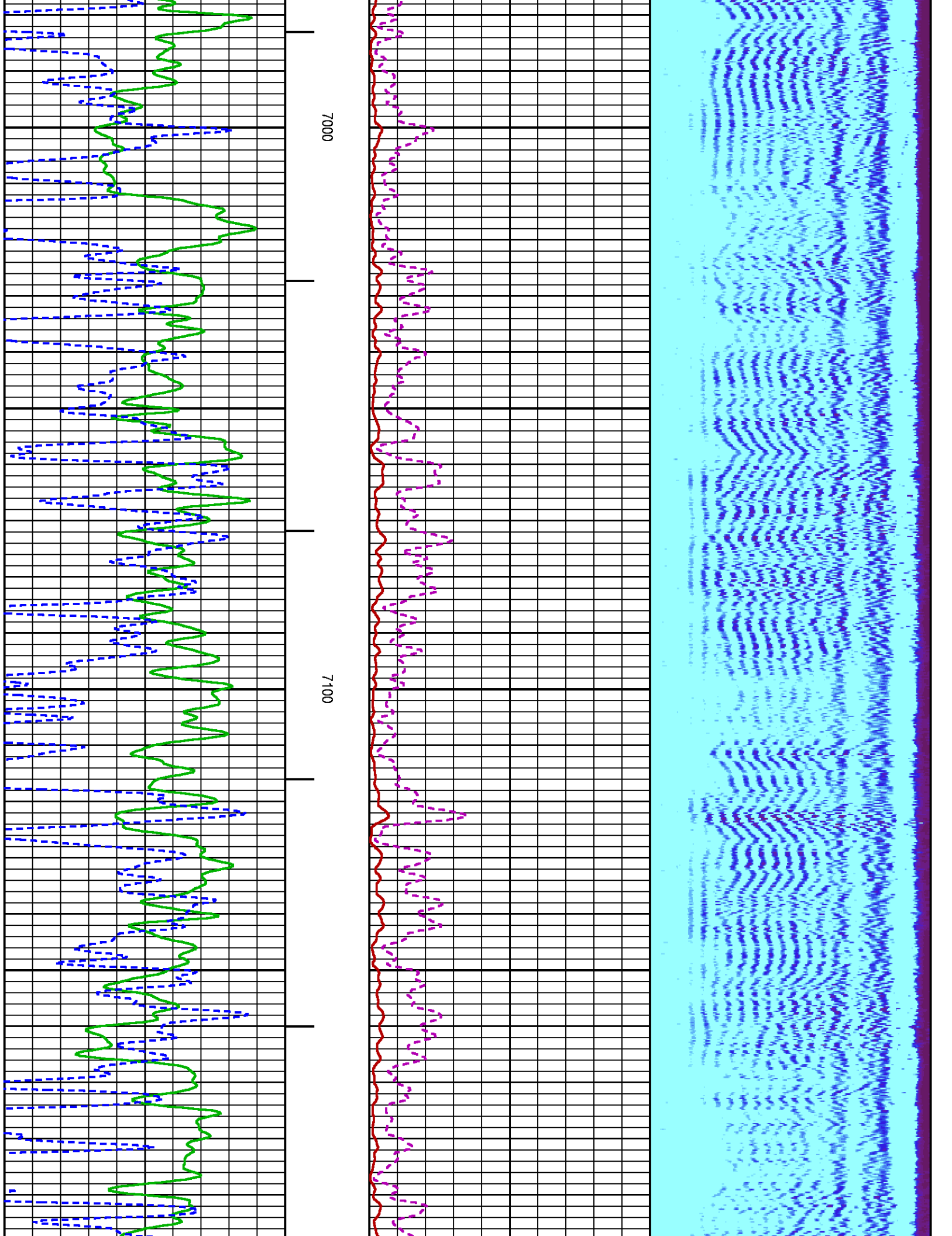


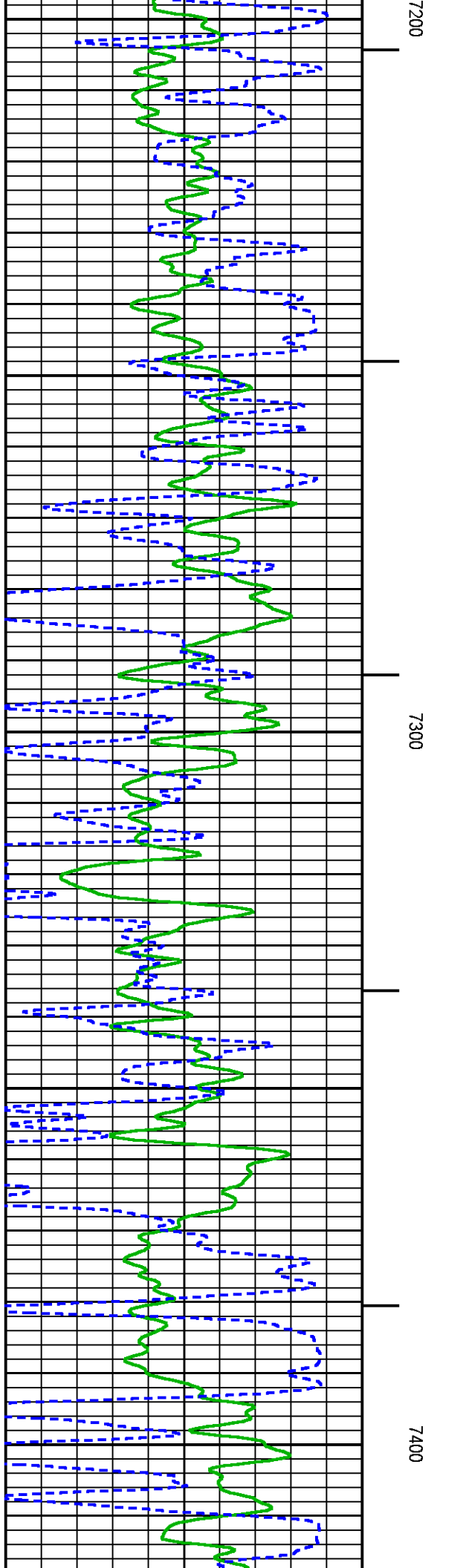
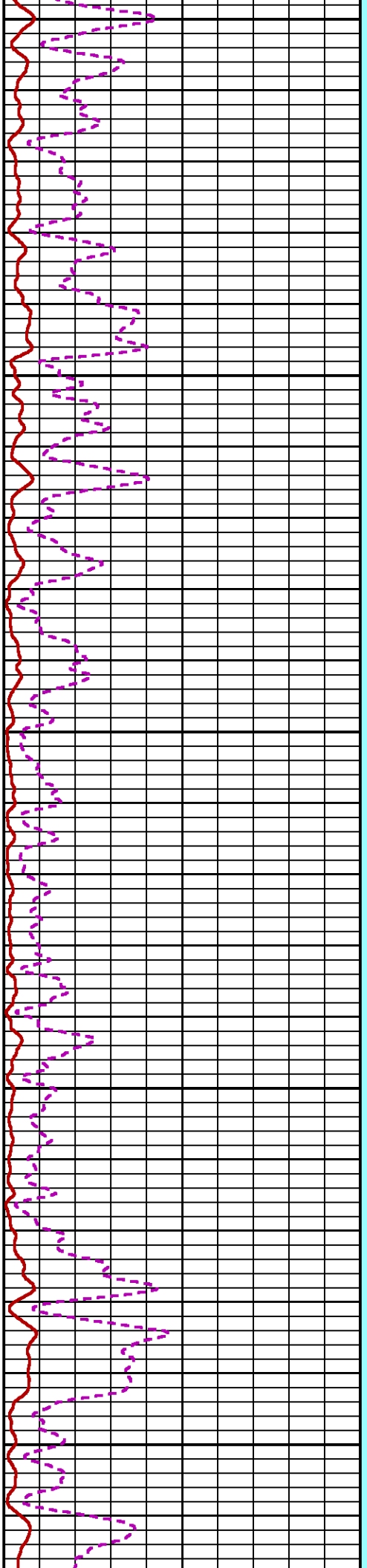
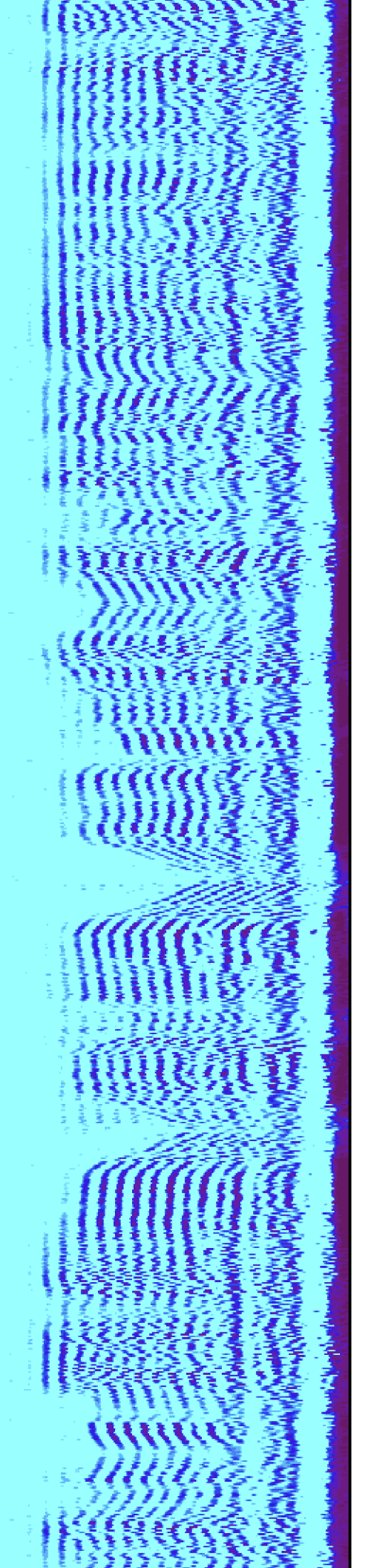


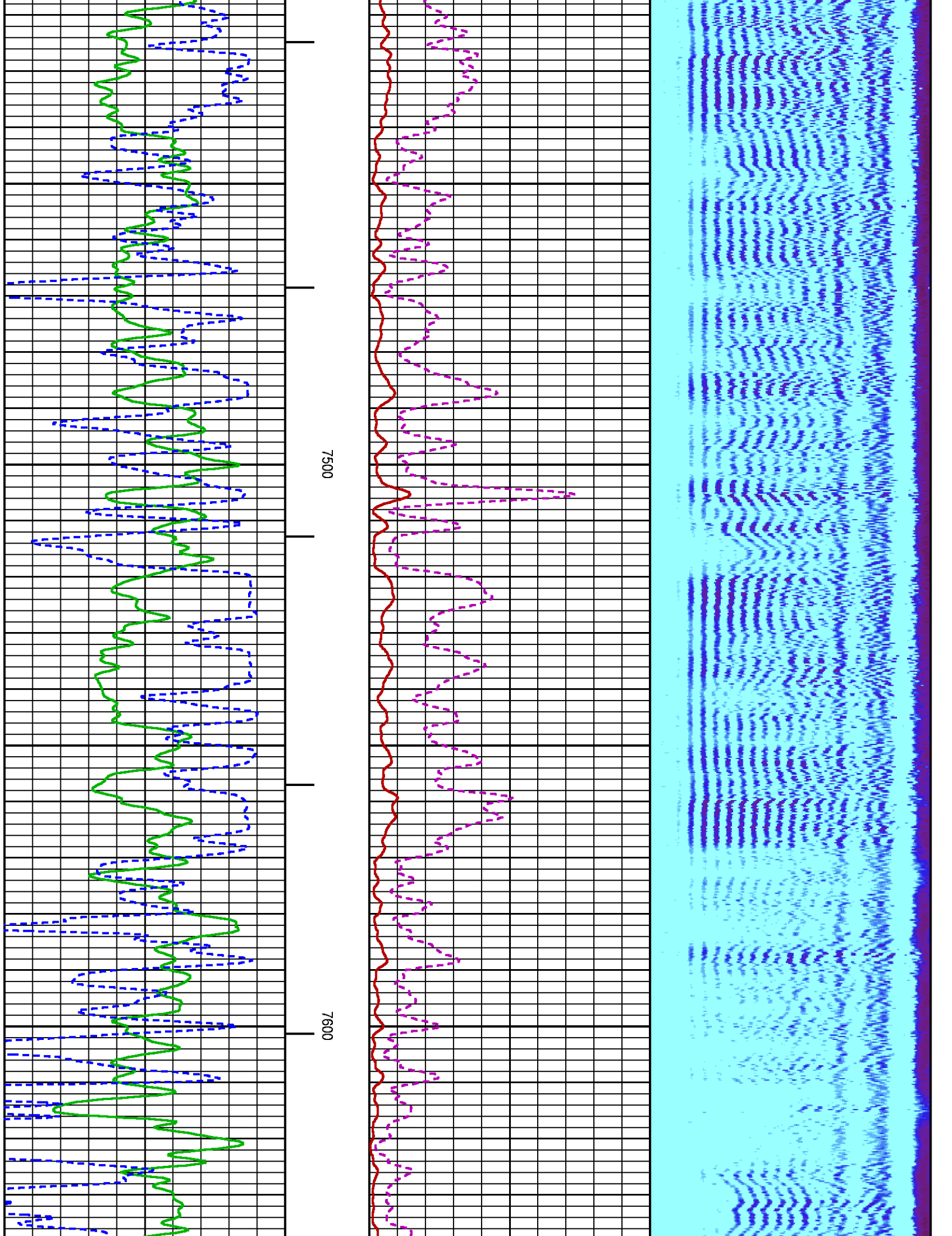
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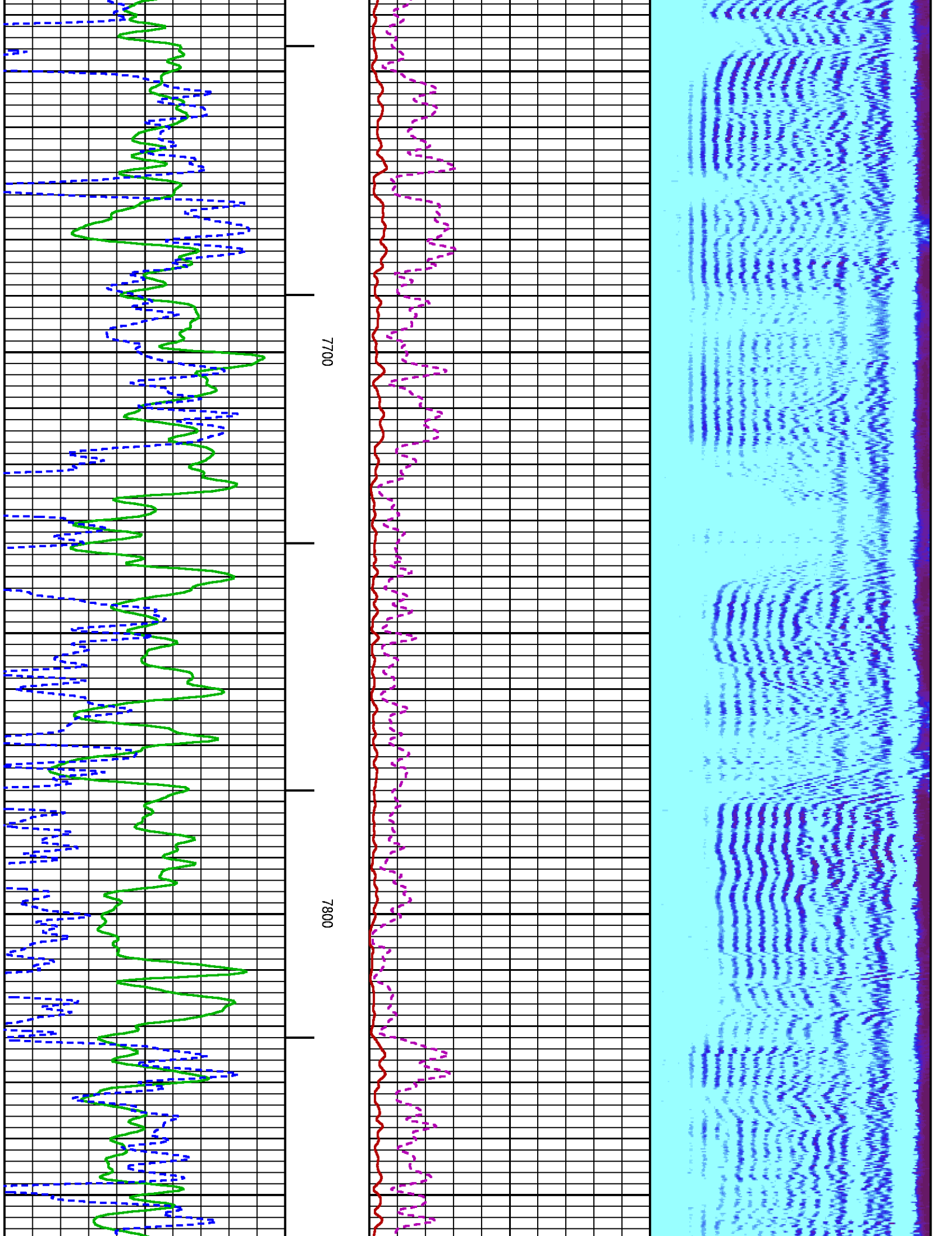
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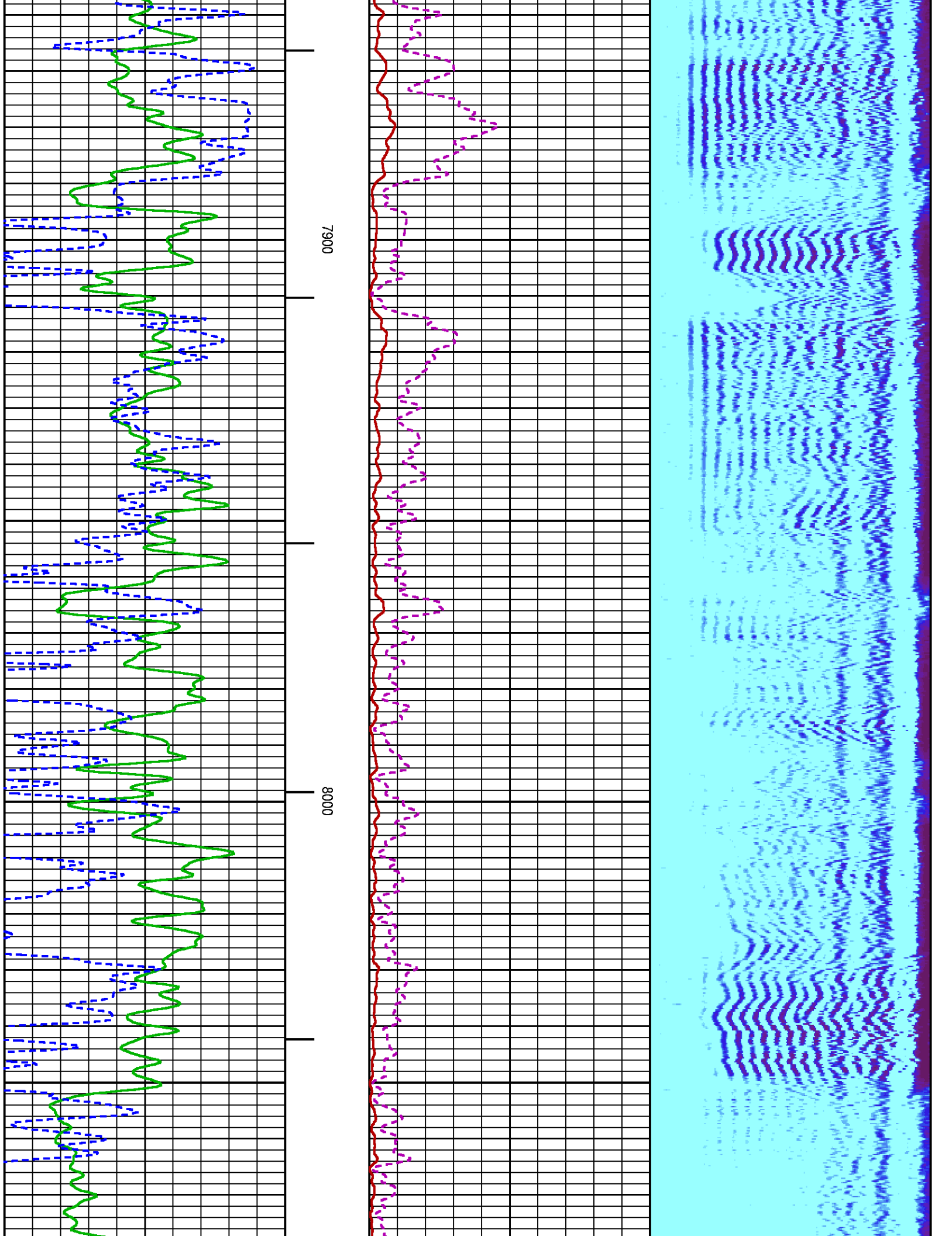


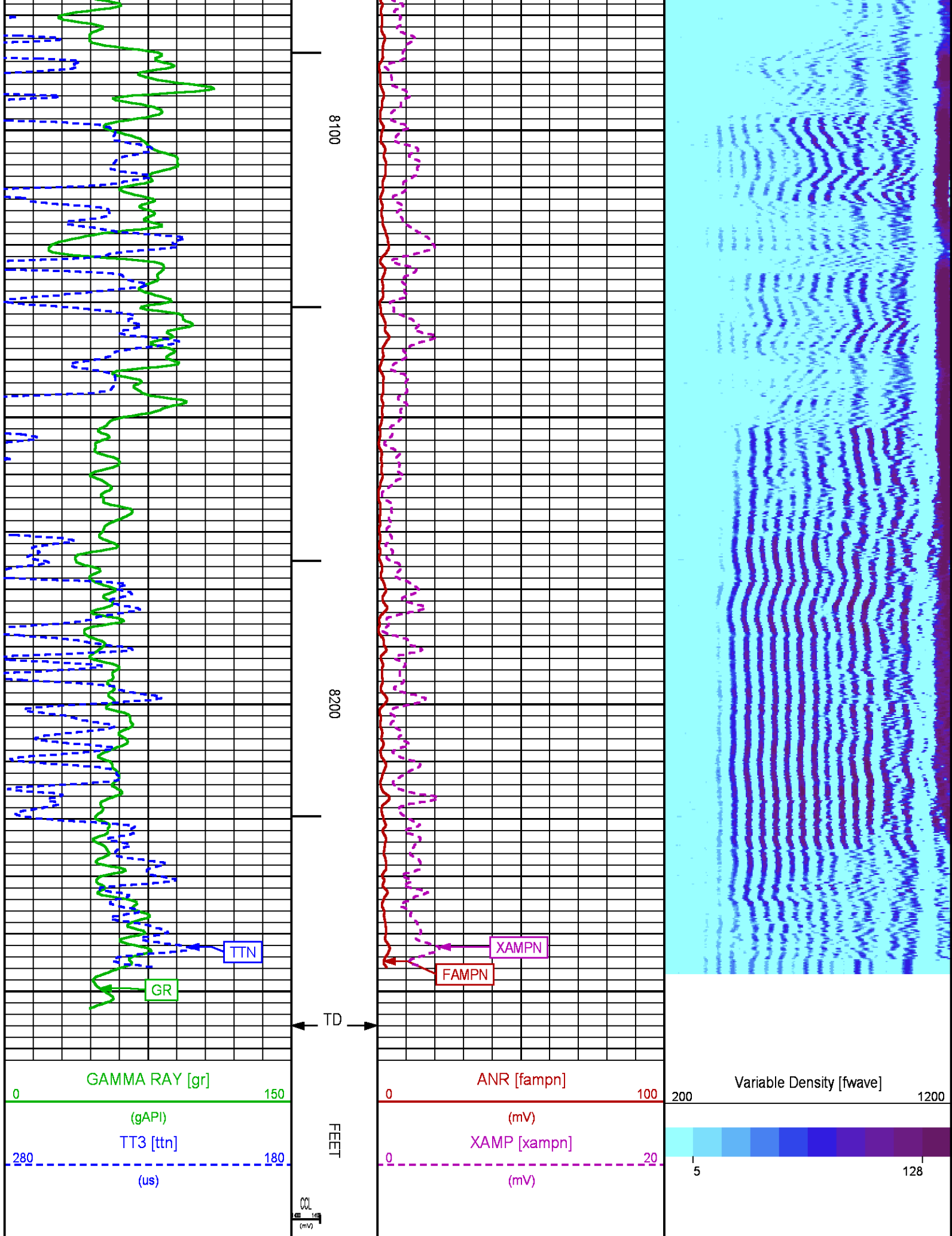












SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 31 Patches: 2

Plotted: Sat Mar 07 16:54:19 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: D:\dat1a\095177\012e02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 26.250 ft BOTTOM DEPTH: 8261.250 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*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	177	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*)	-67	us	"	"
	TOOL DELAY (str2*)	-67	us	"	"
	TOOL DELAY (str3*)	-67	us	"	"
	TOOL DELAY (str4*)	-67	us	"	"
	TOOL DELAY (str5*)	-67	us	"	"
	TOOL DELAY (str6*)	-67	us	"	"
	TOOL DELAY (str7*)	-67	us	"	"
	TOOL DELAY (str8*)	-67	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-67	us	"	"
	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	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	"	"

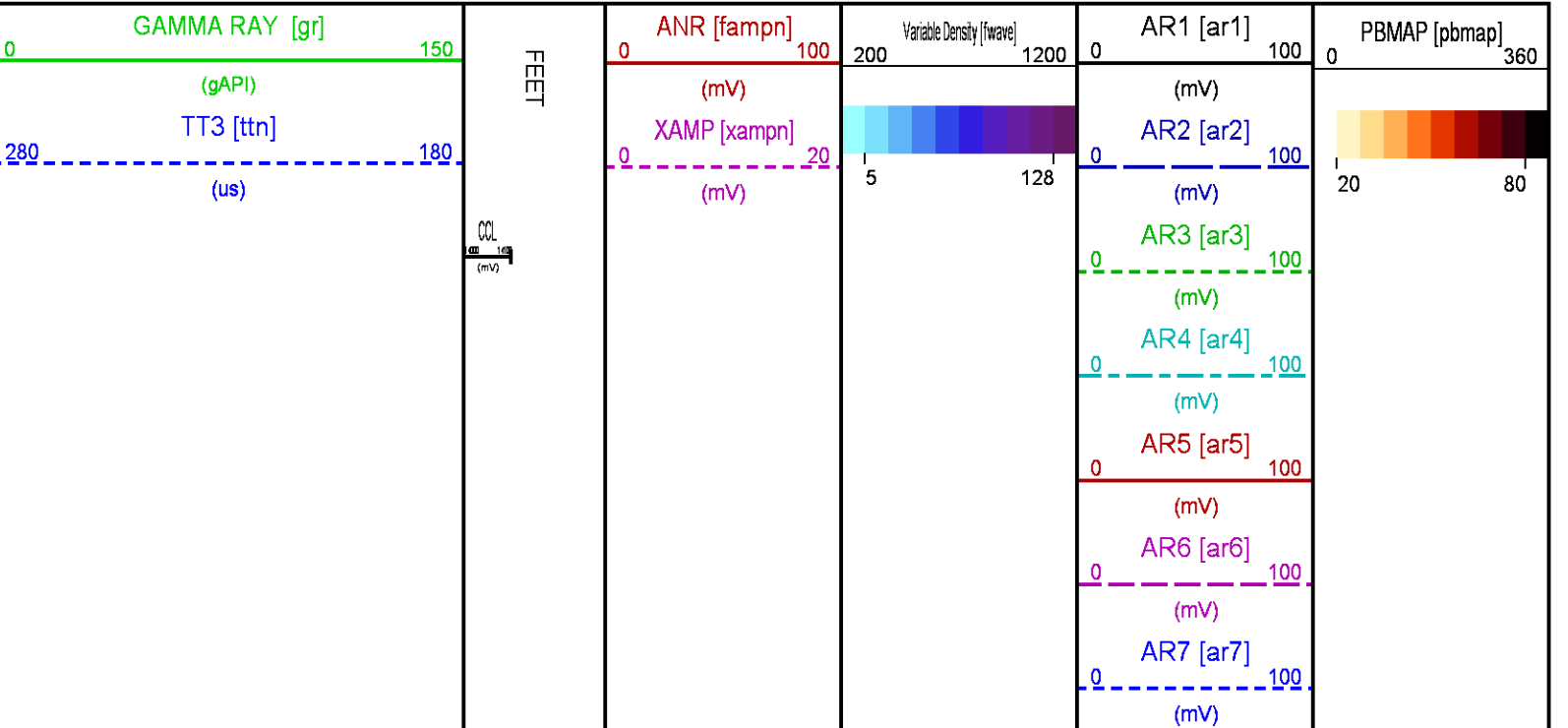
CURVE DESCRIPTION REPORT

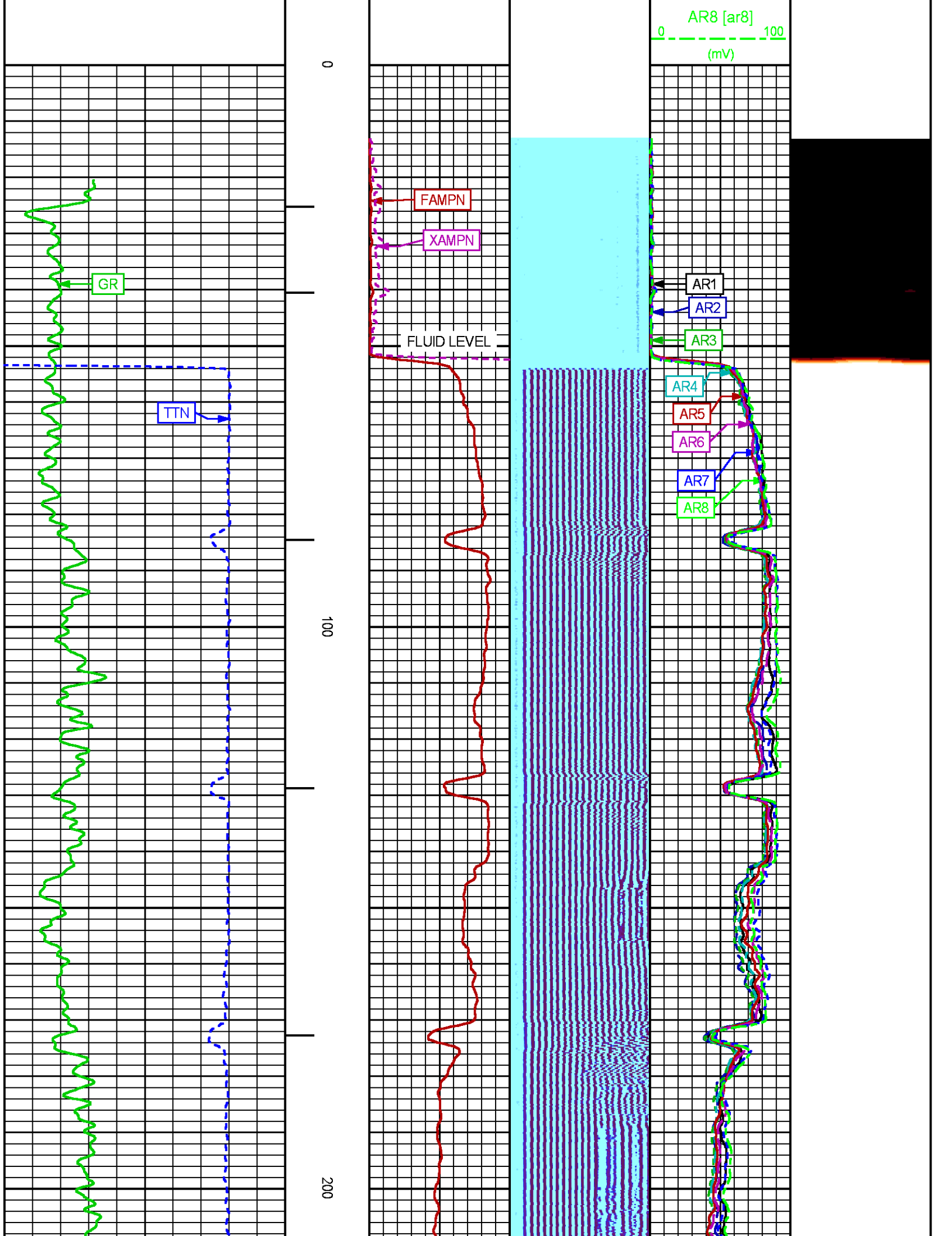
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Mar 6 14:44:59 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 6 14:44:59 2015	FAR WAVE FORM
F1:GR	Mar 6 14:44:59 2015	GAMMA RAY
F1:PBMAP	Mar 6 14:44:59 2015	PERCENT BOND CEMENT MAP
F1:TTN	Mar 6 14:44:59 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 6 14:44:59 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

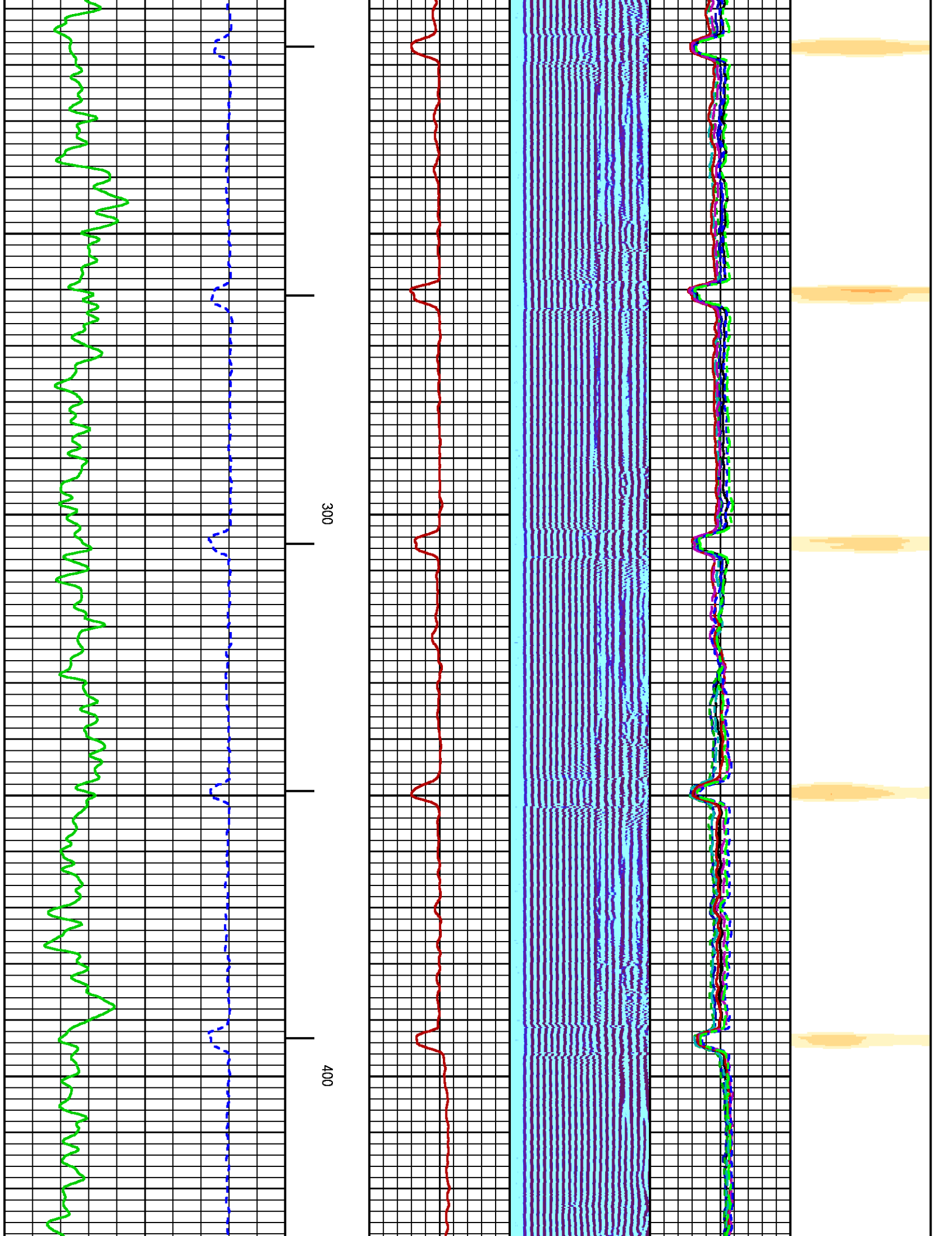
CURVE MEASURE POINT OFFSET

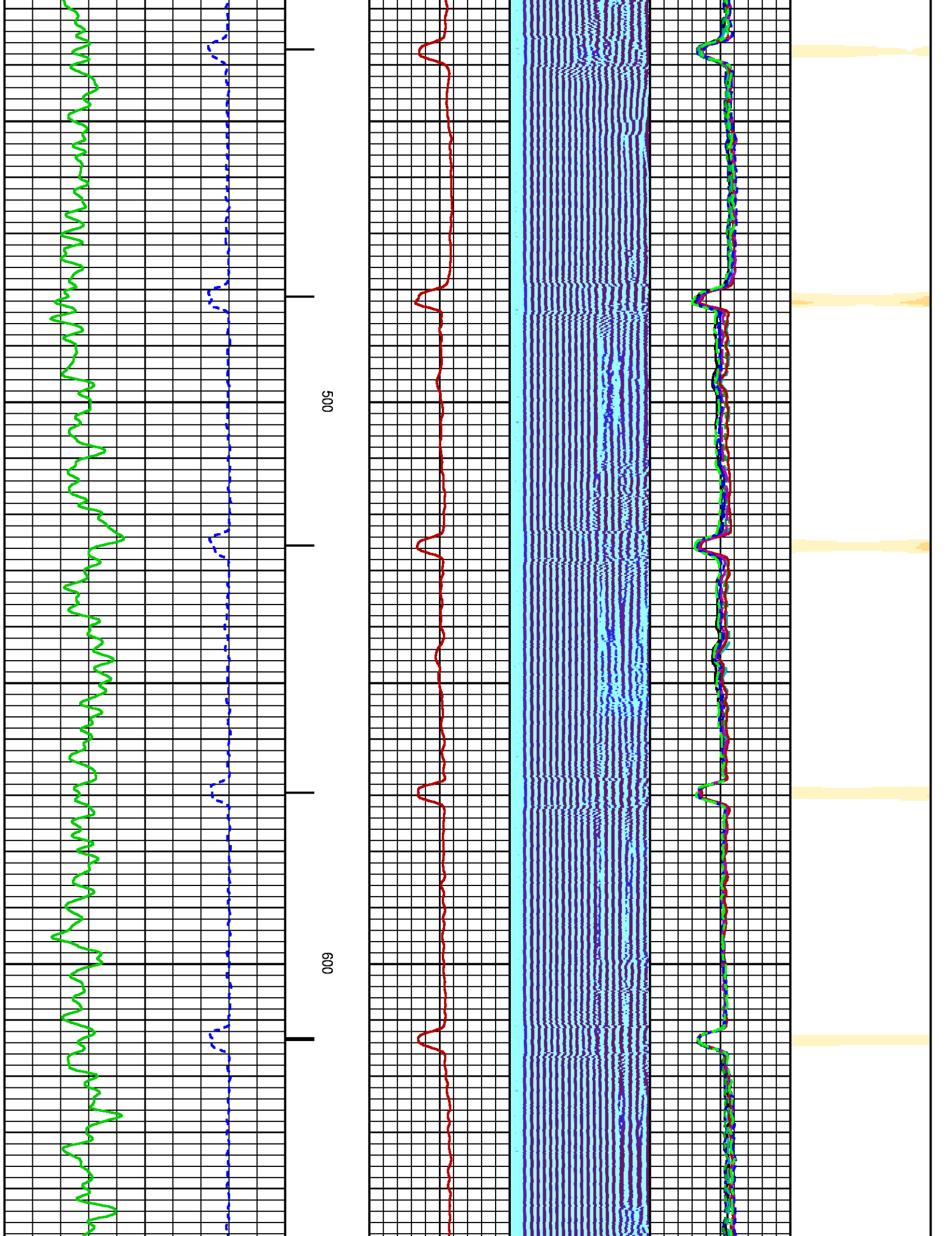
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

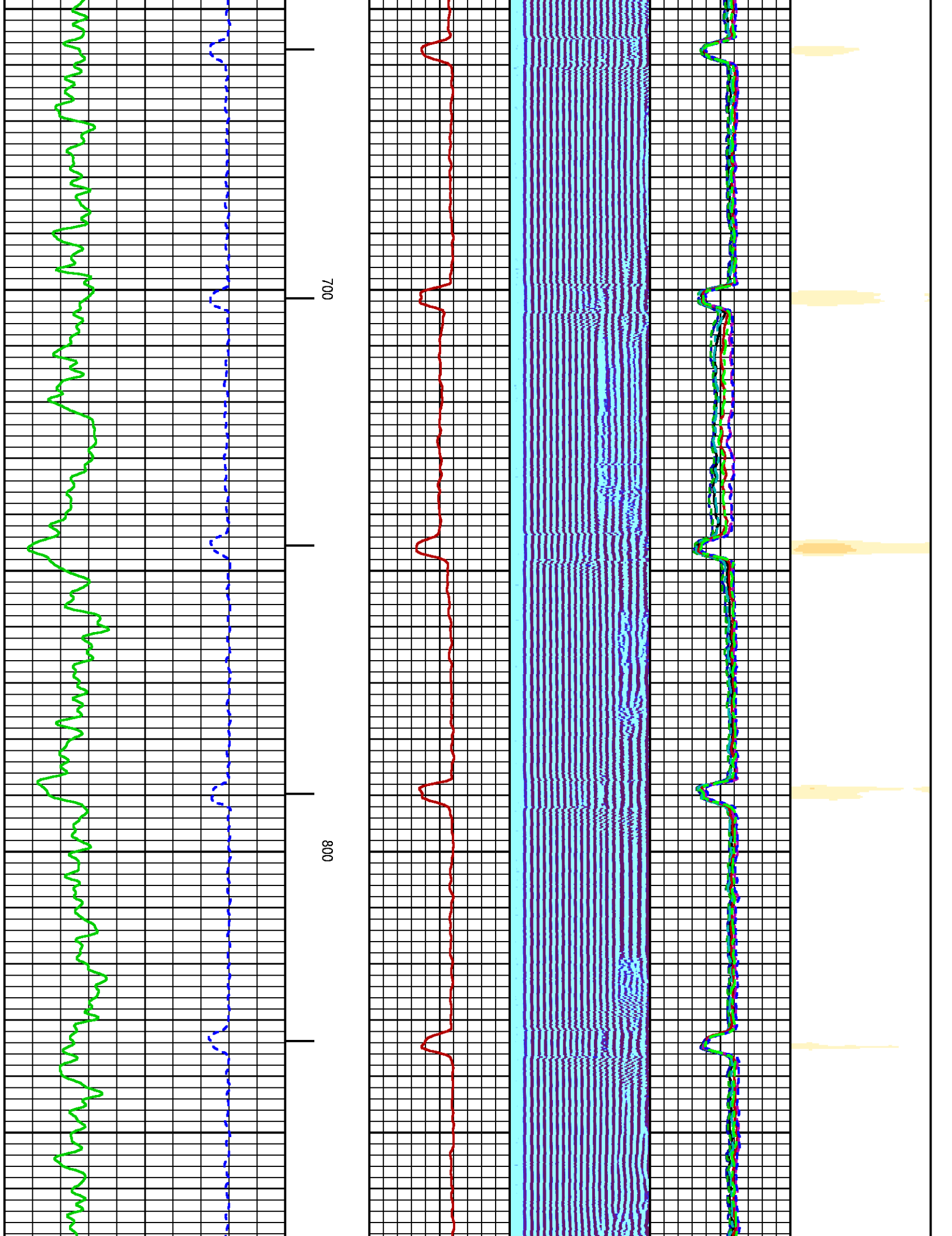
Presentation	: BHIBX9FSY1:D:\dat1a\095177\43CBL_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 8261 Feet
Data File 1	: F1 : BHIBX9FSY1:D:\dat1a\095177\43CBL_MAIN.xtf
Created On	: Mar 6 14:44:59 2015
Company	: WPX ENERGY
Well	: MEAD RWF 43-23
Field	: RULISON
File Interval	: 12 - 8260.75 Feet
OCT	: n012e

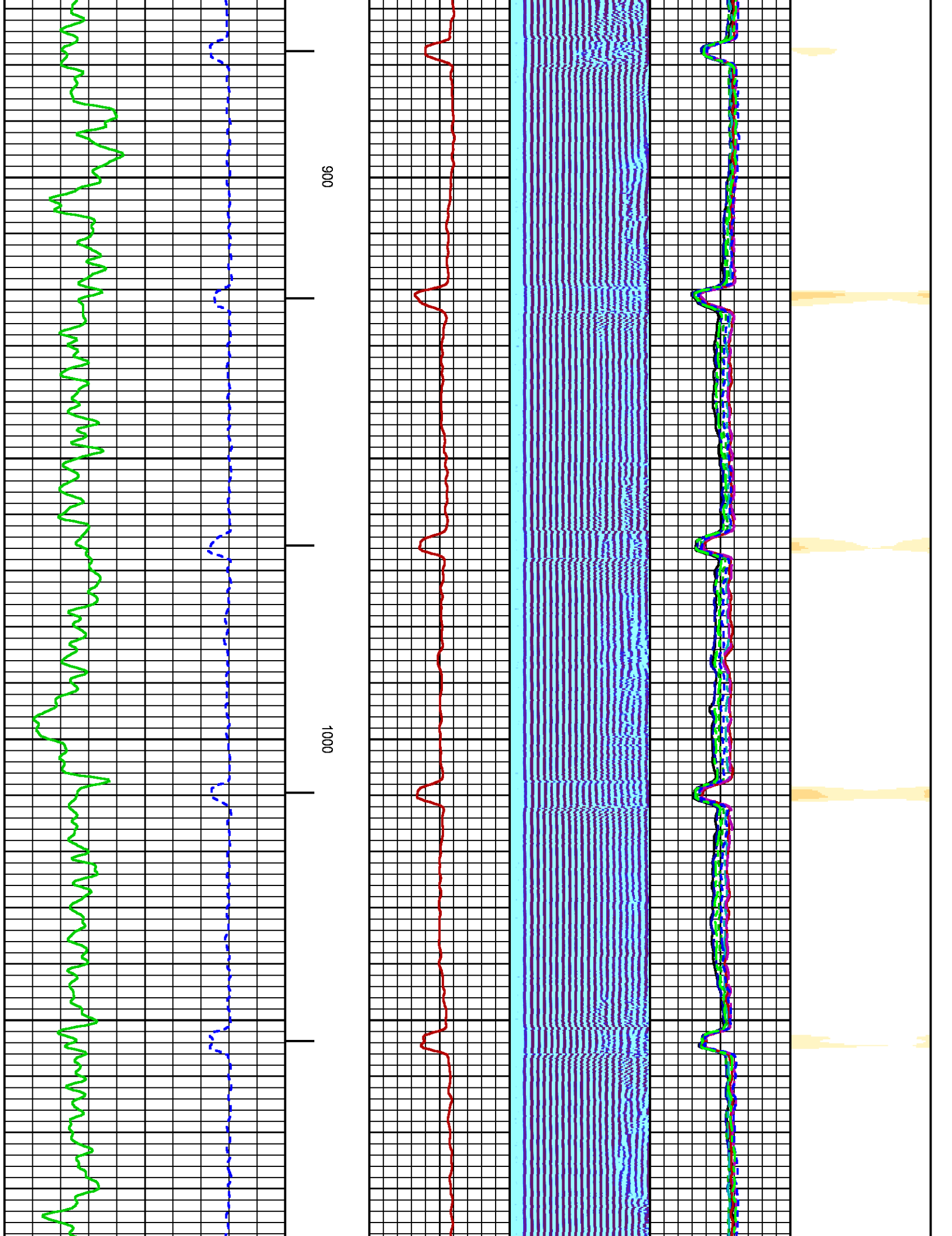


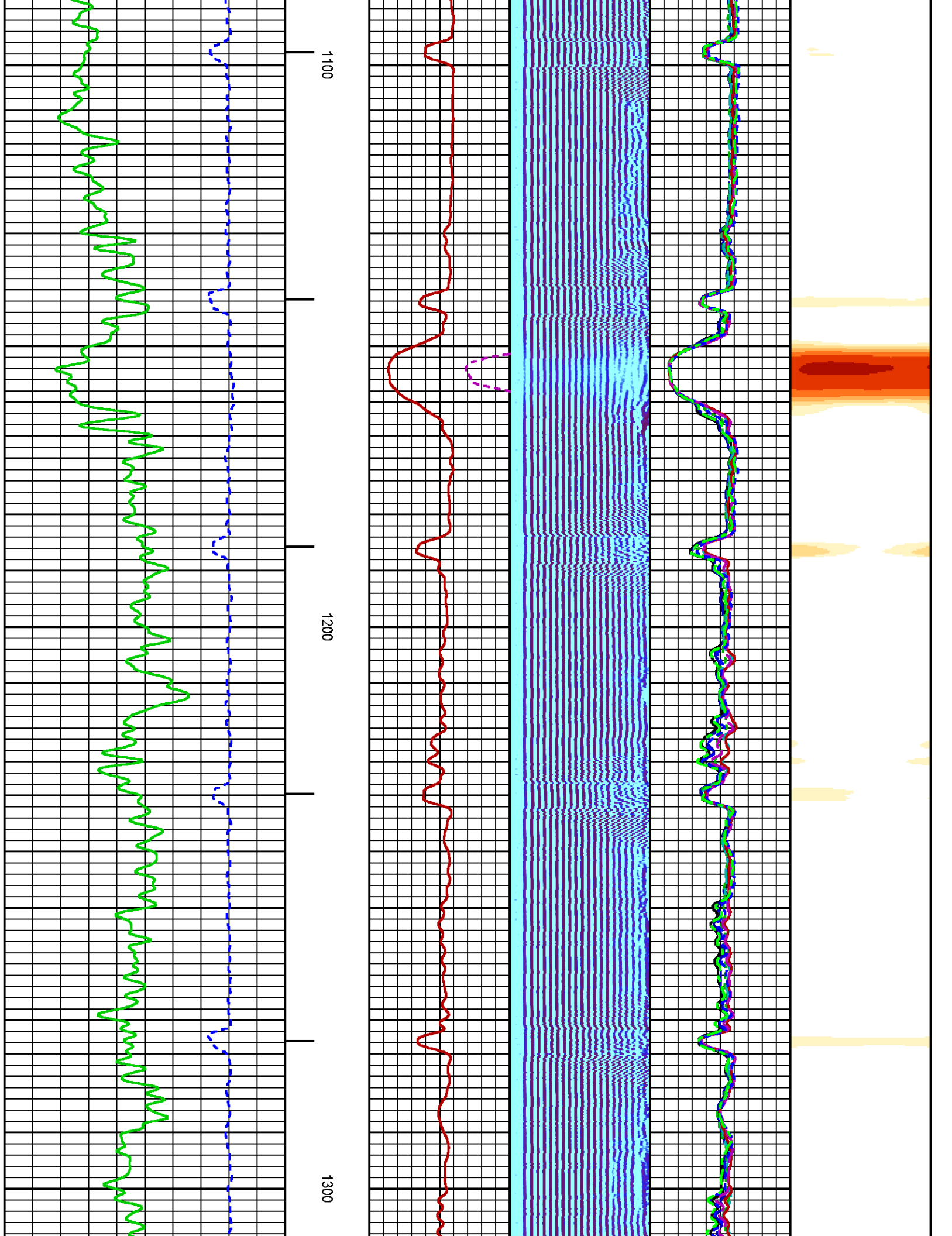


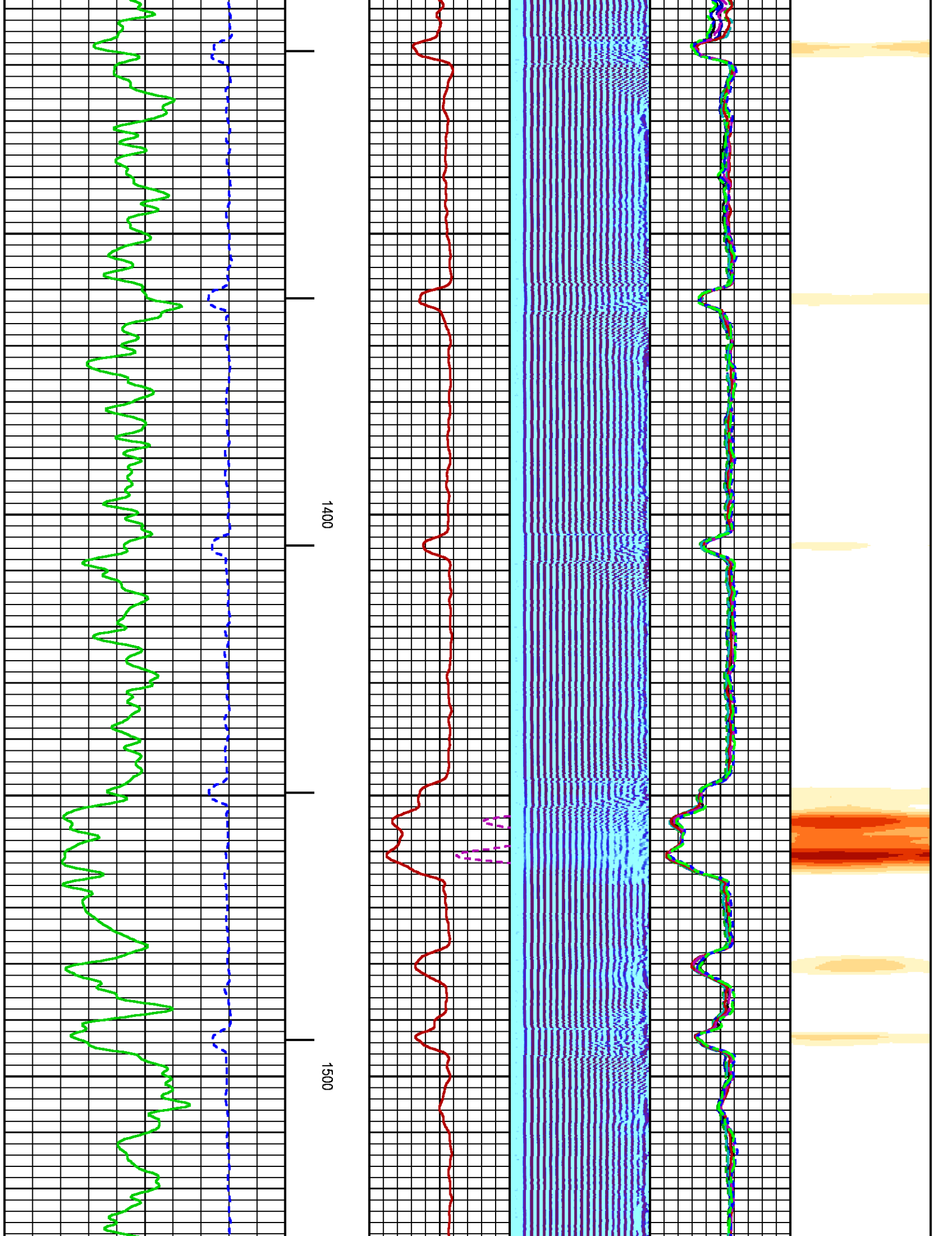


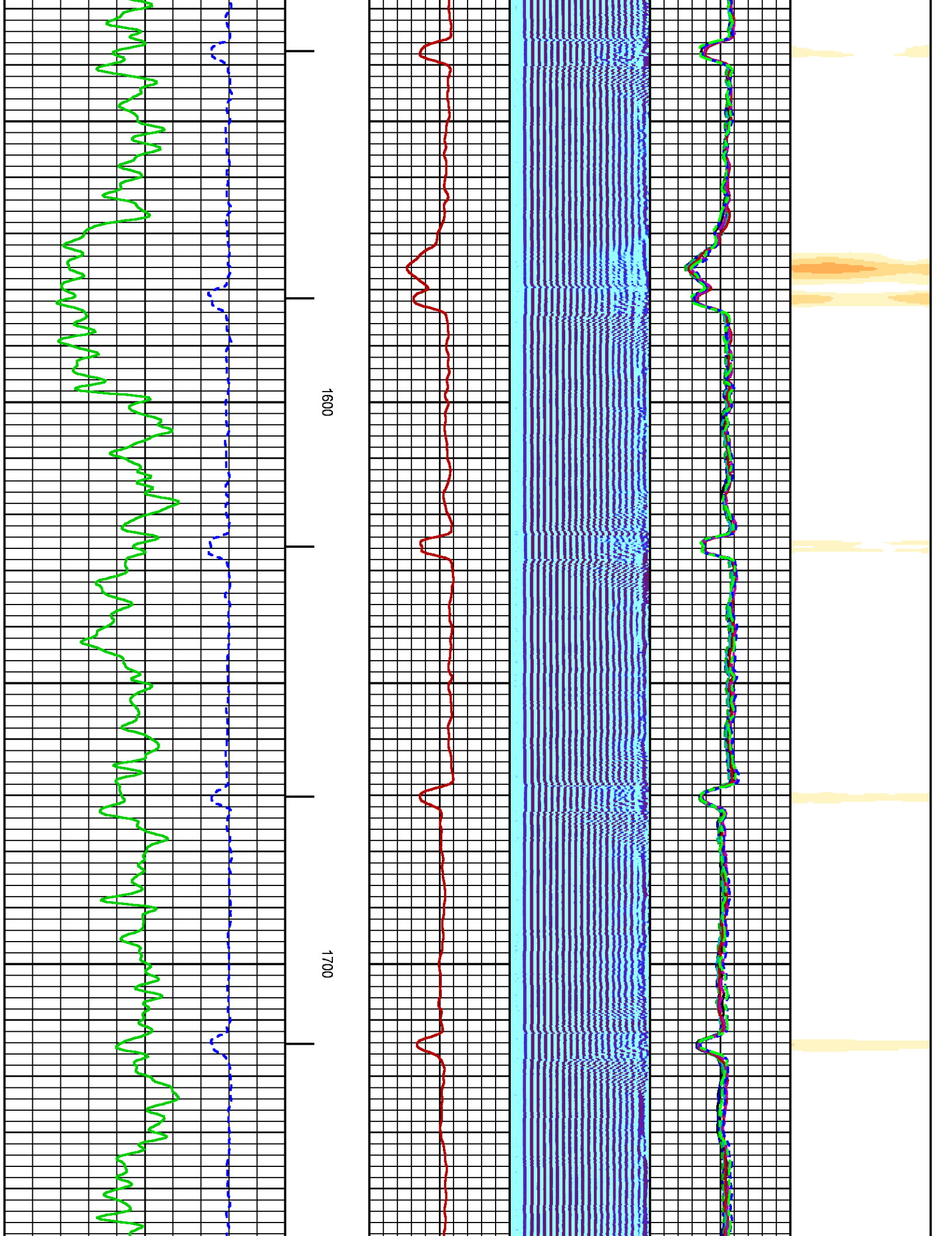


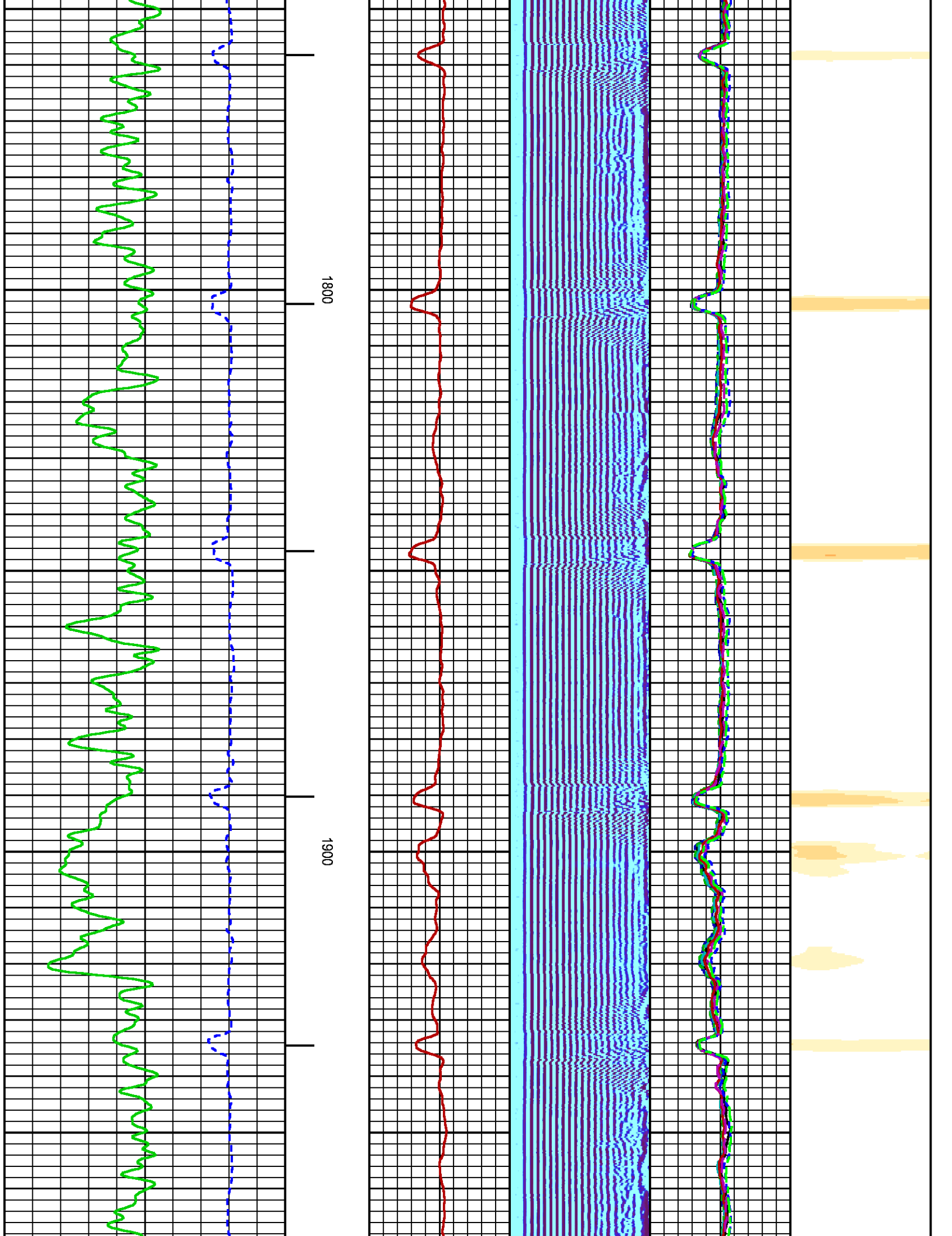


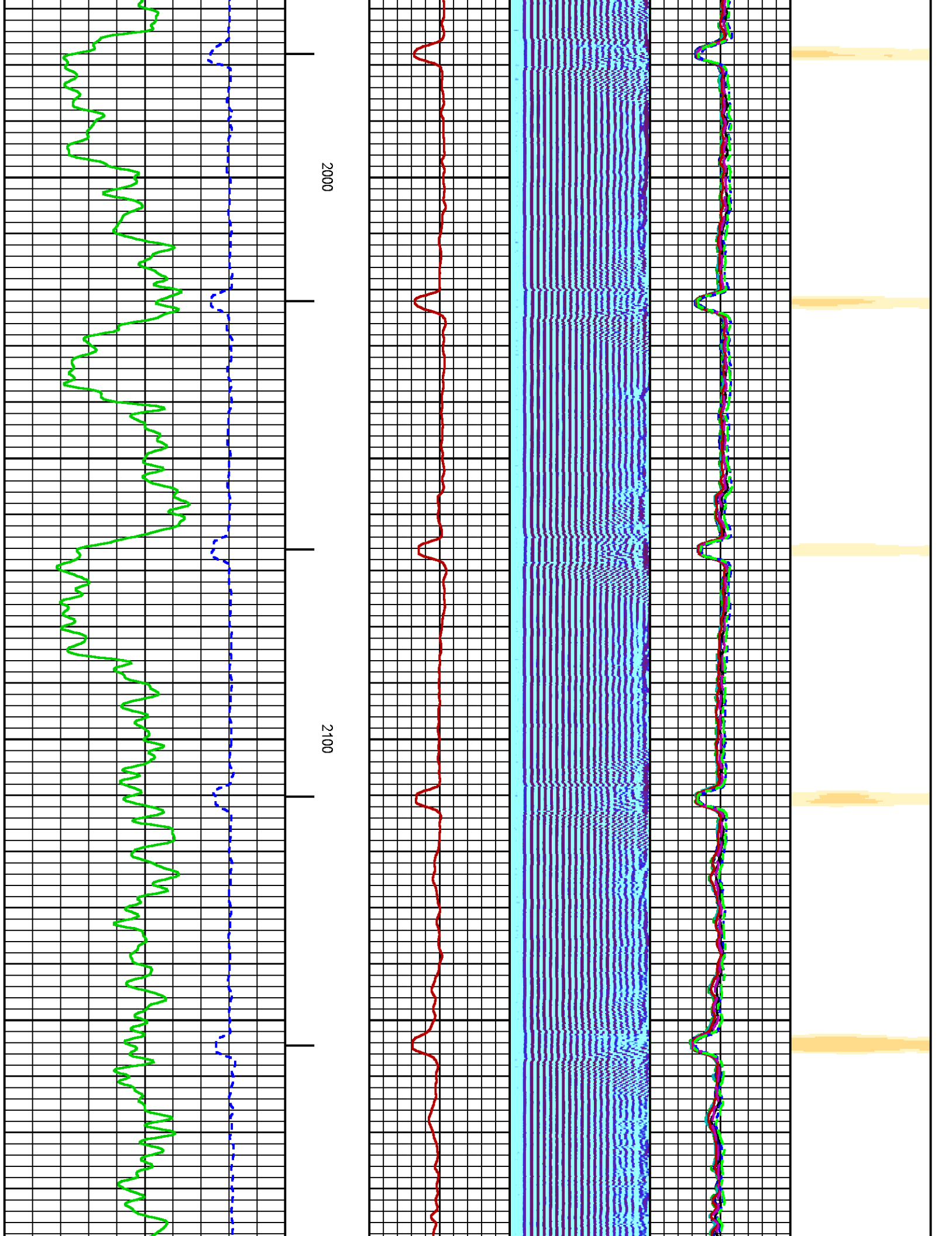


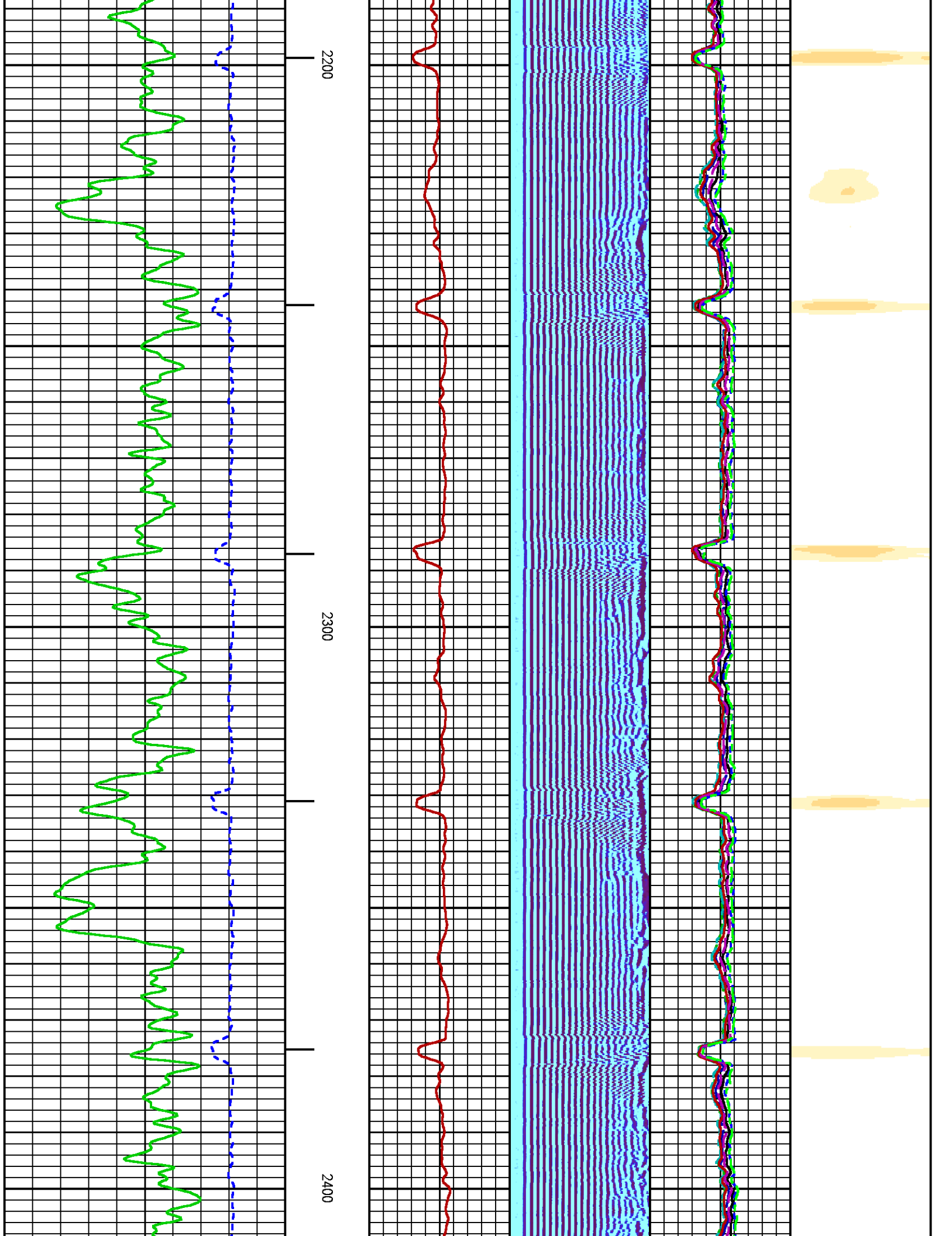


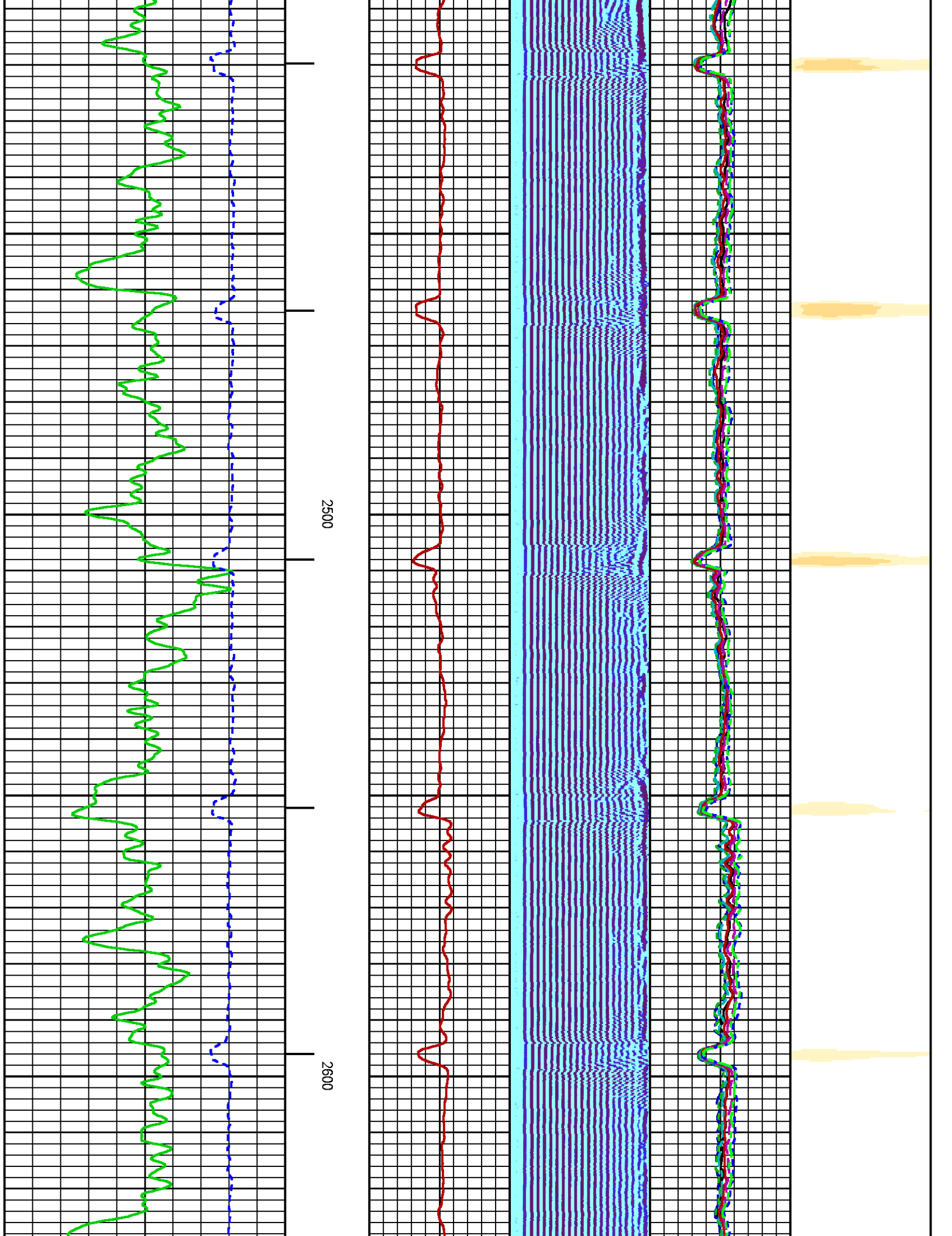


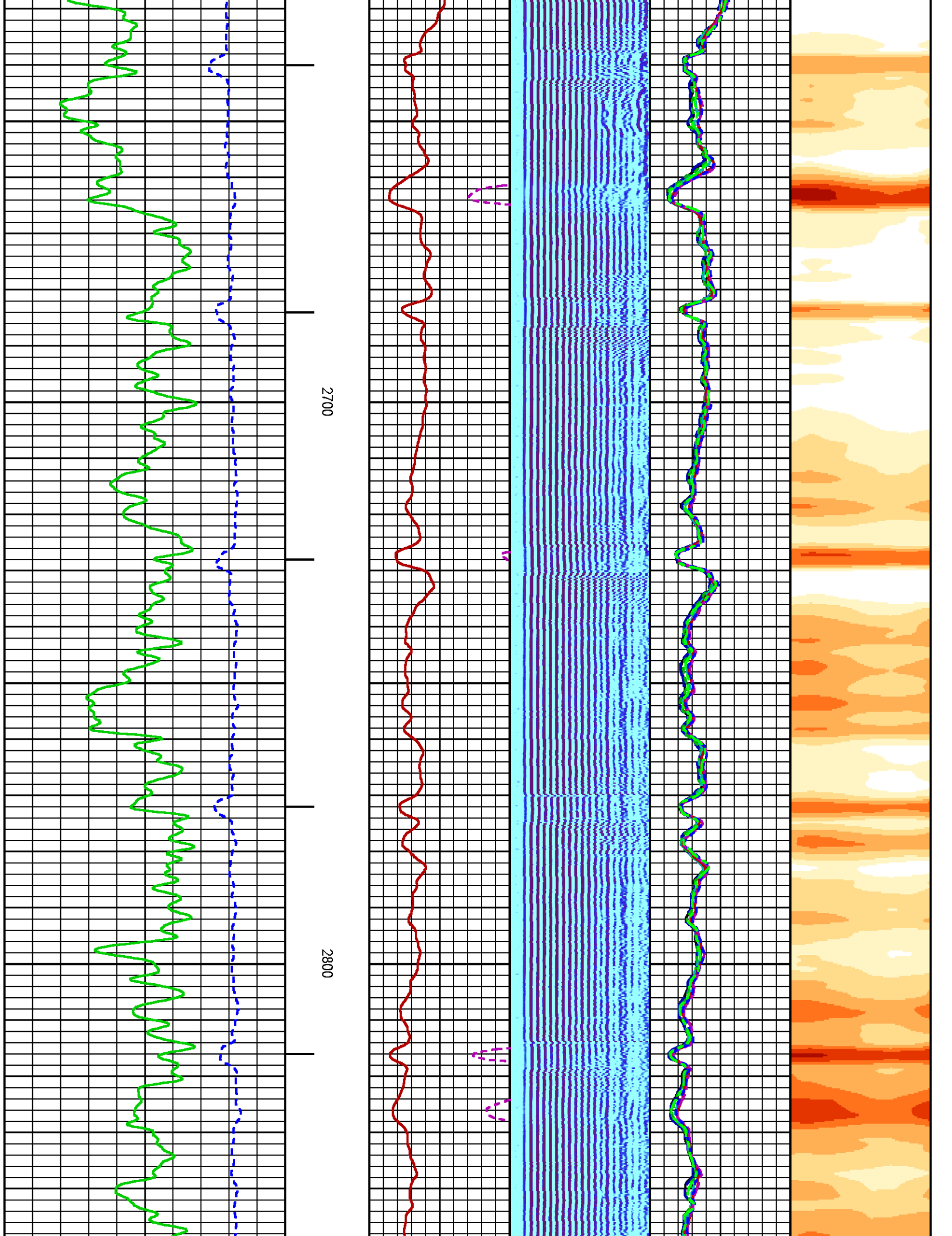


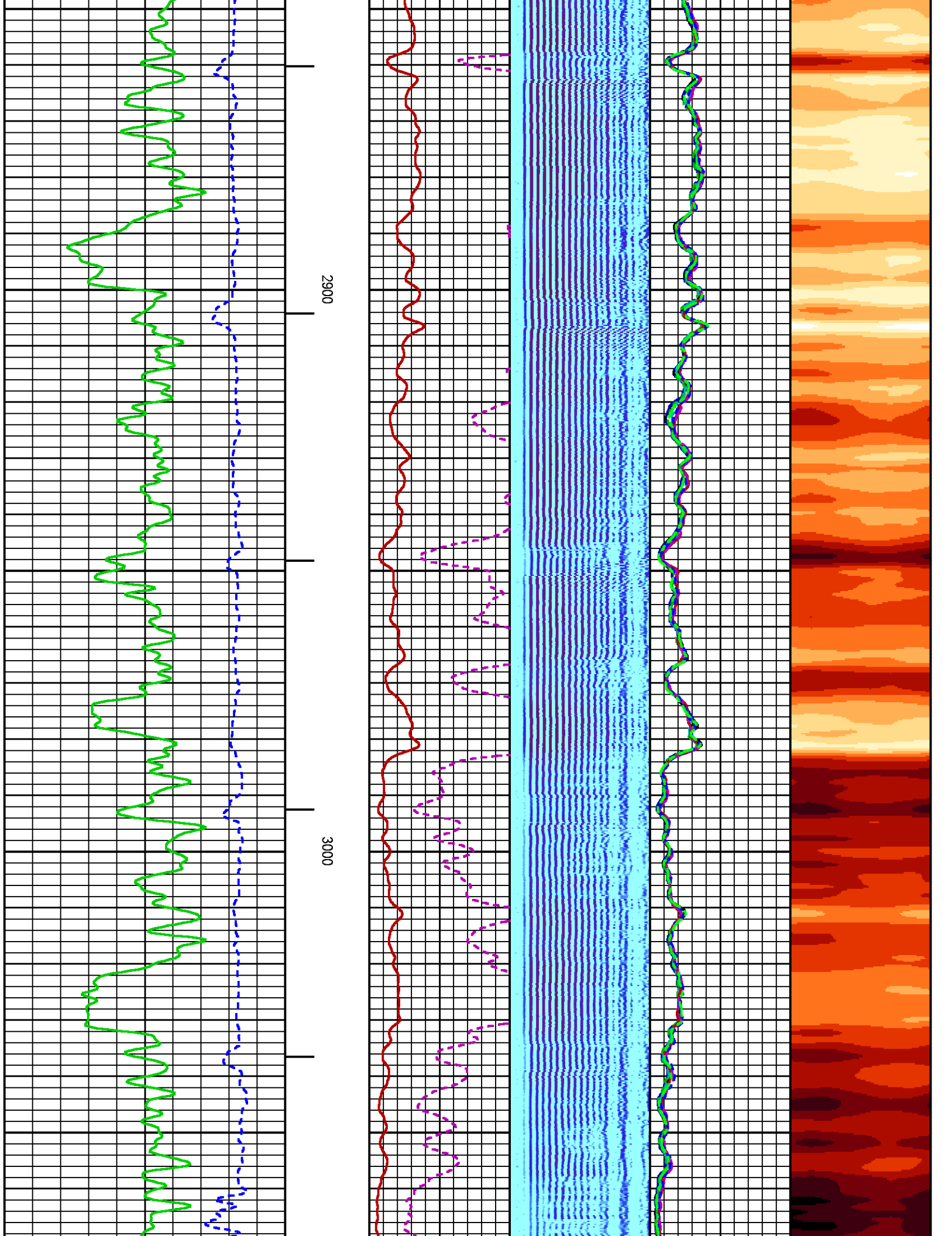


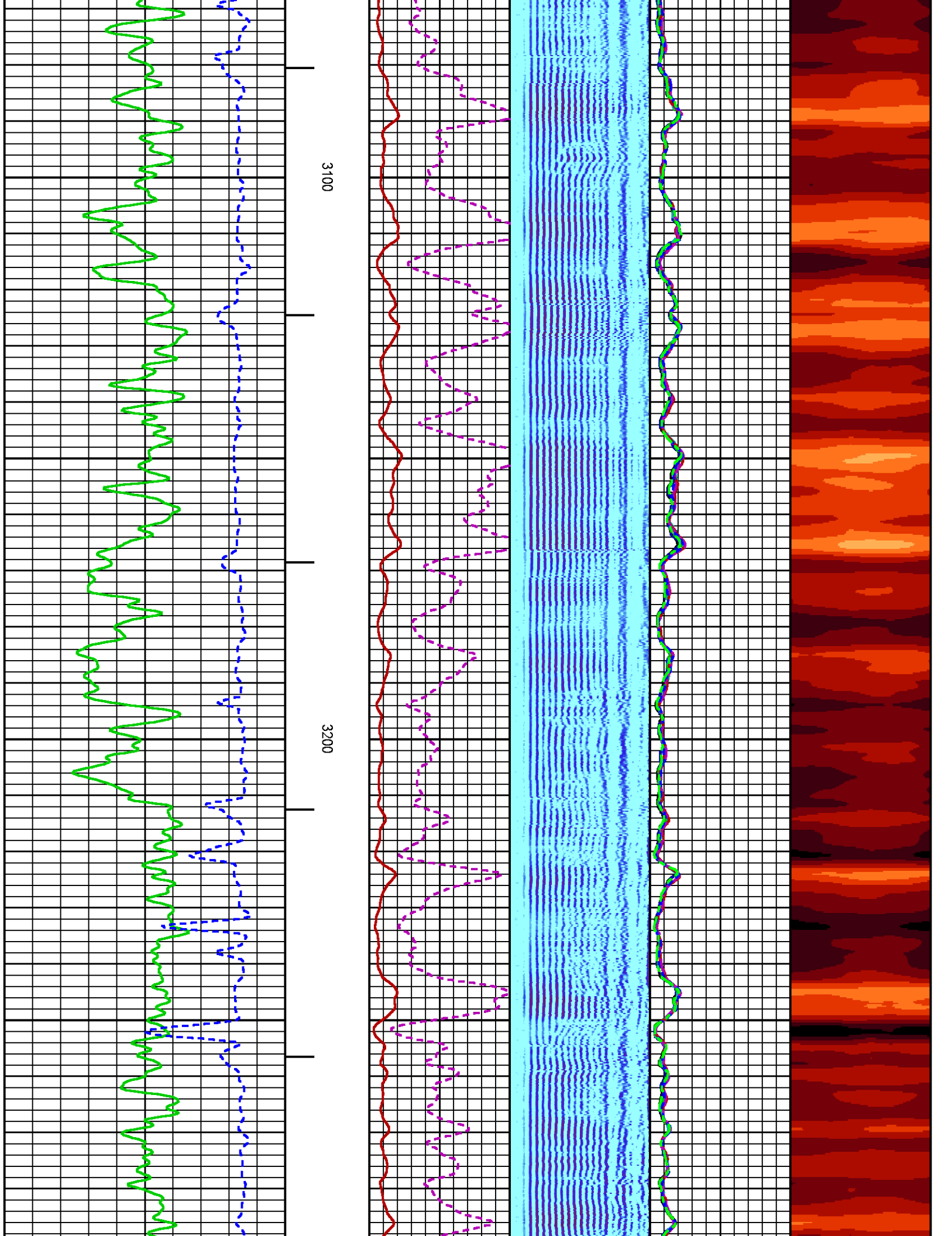


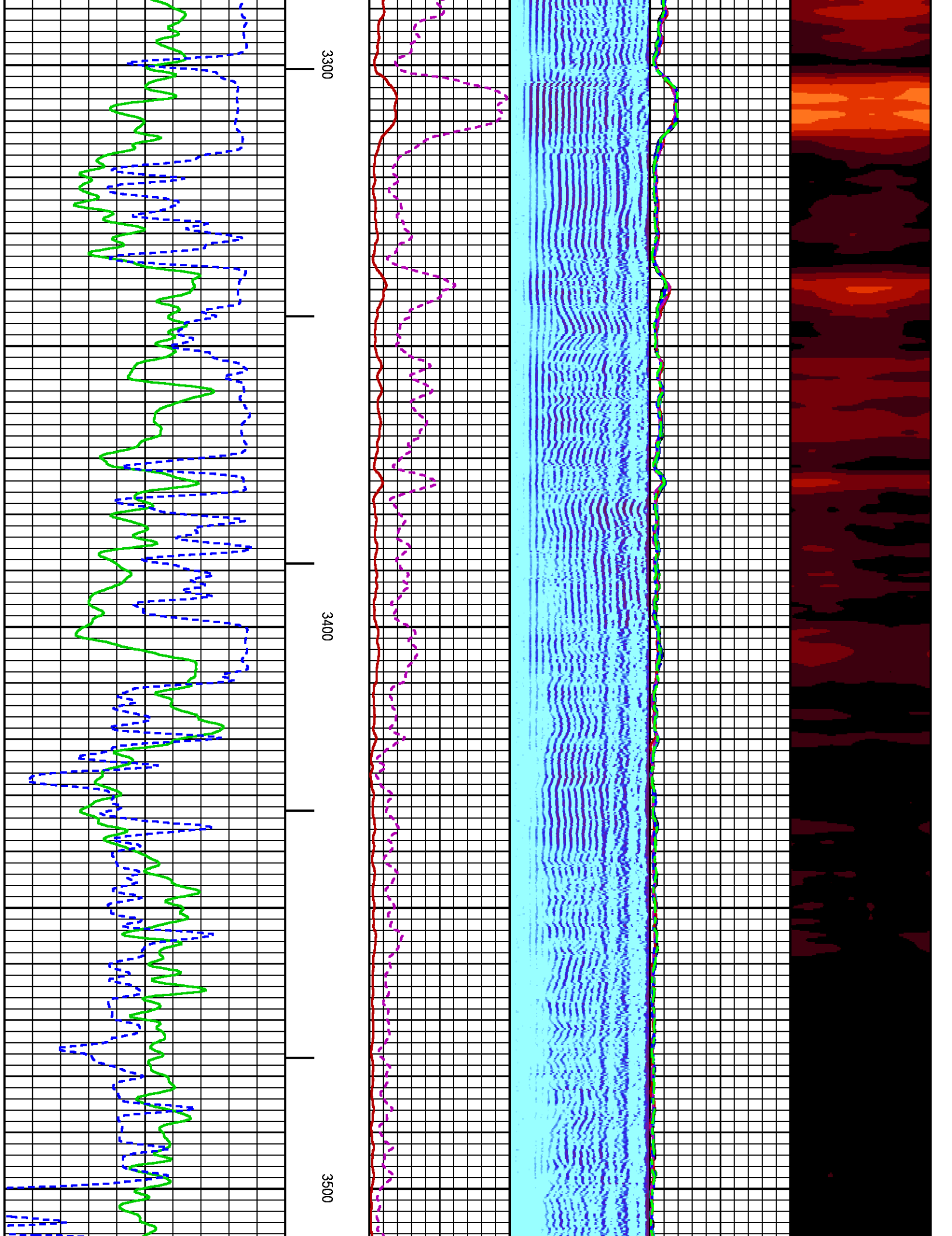


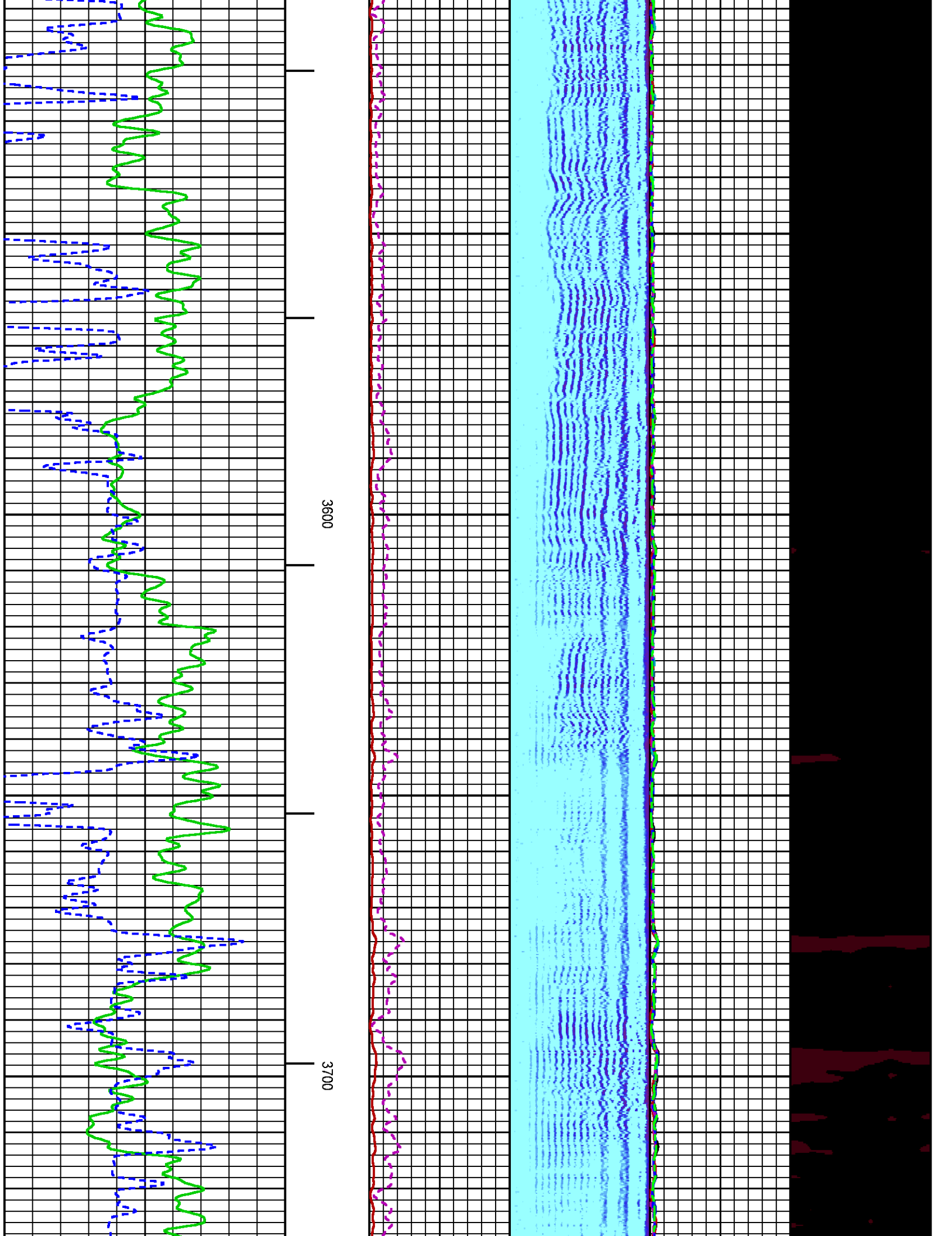


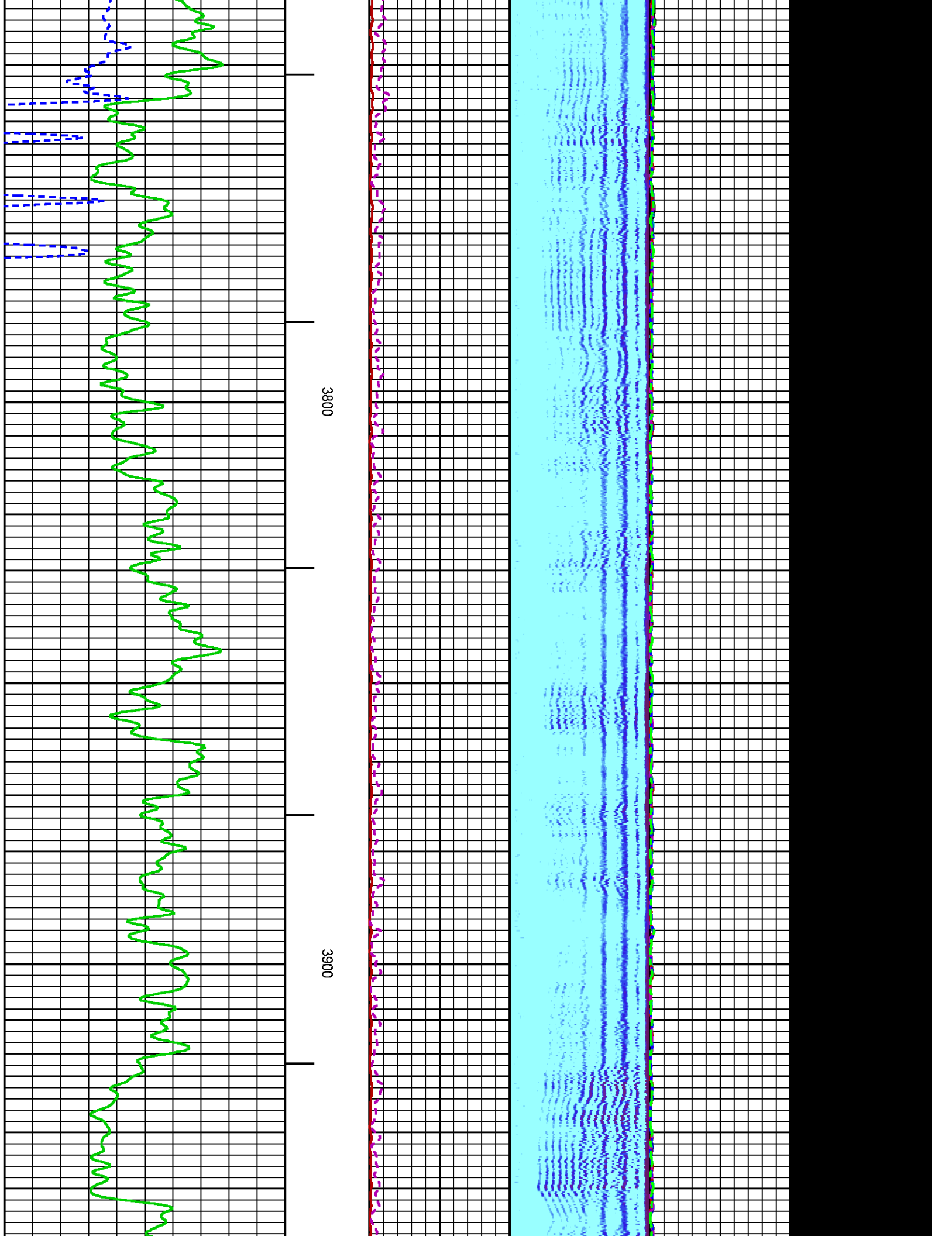


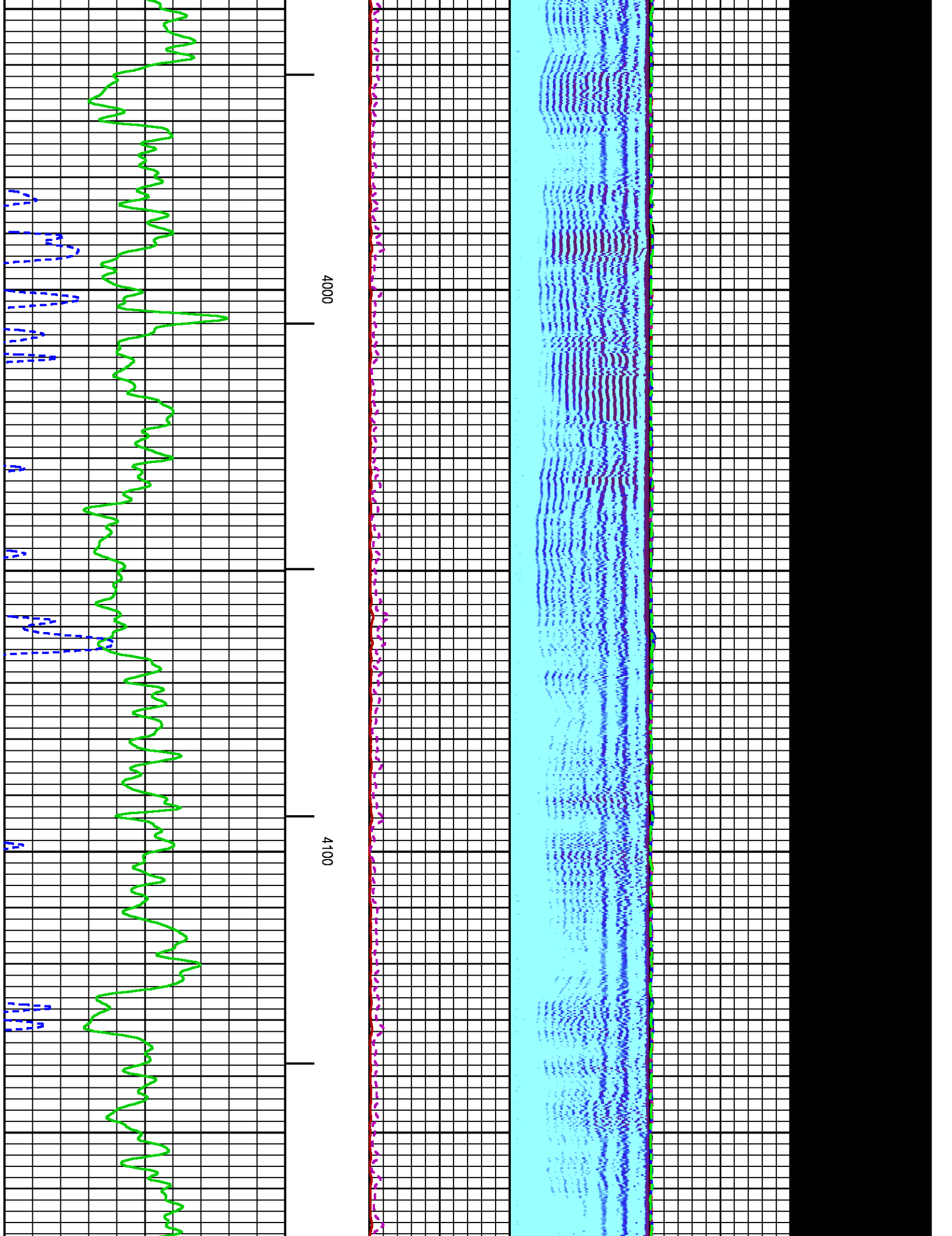


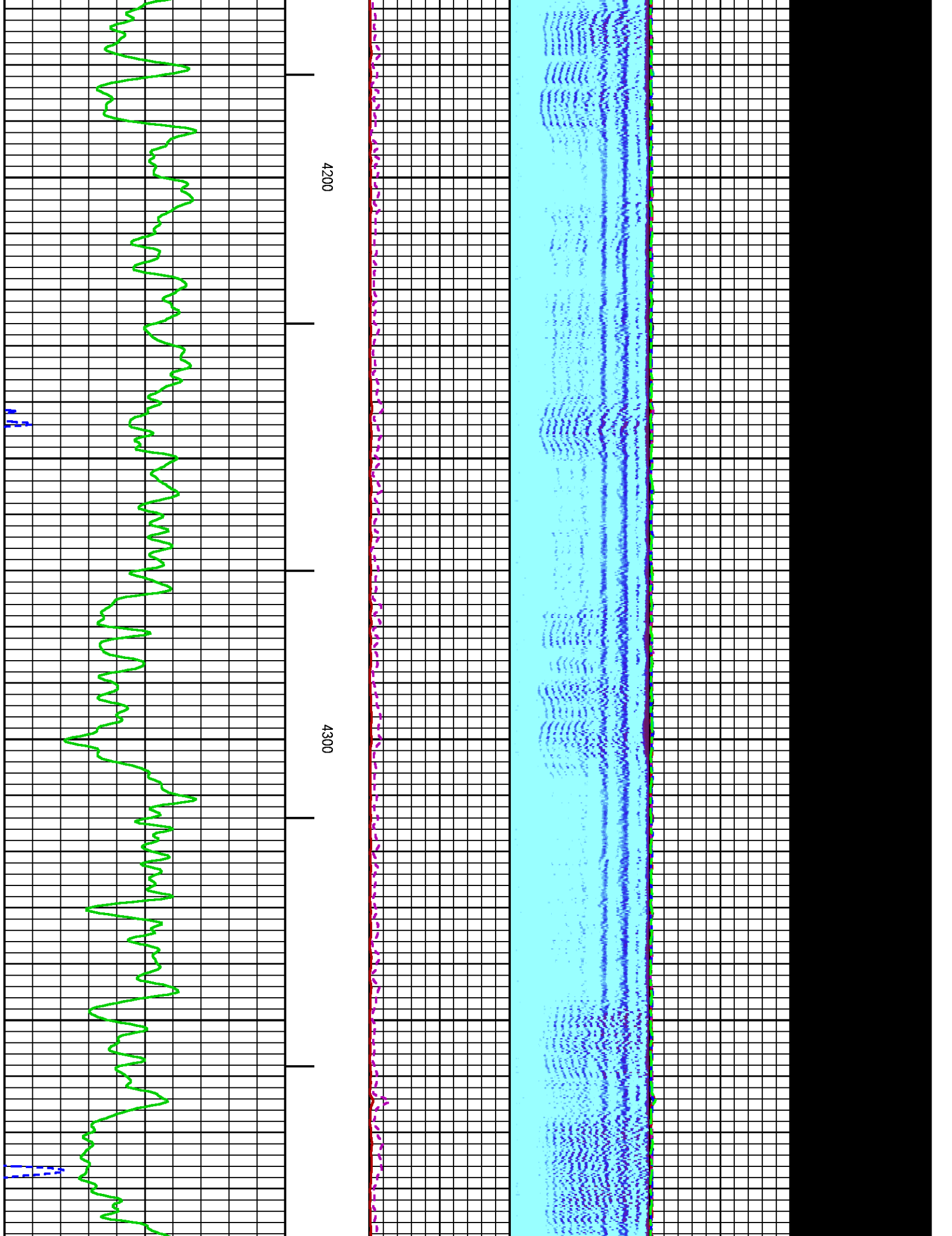


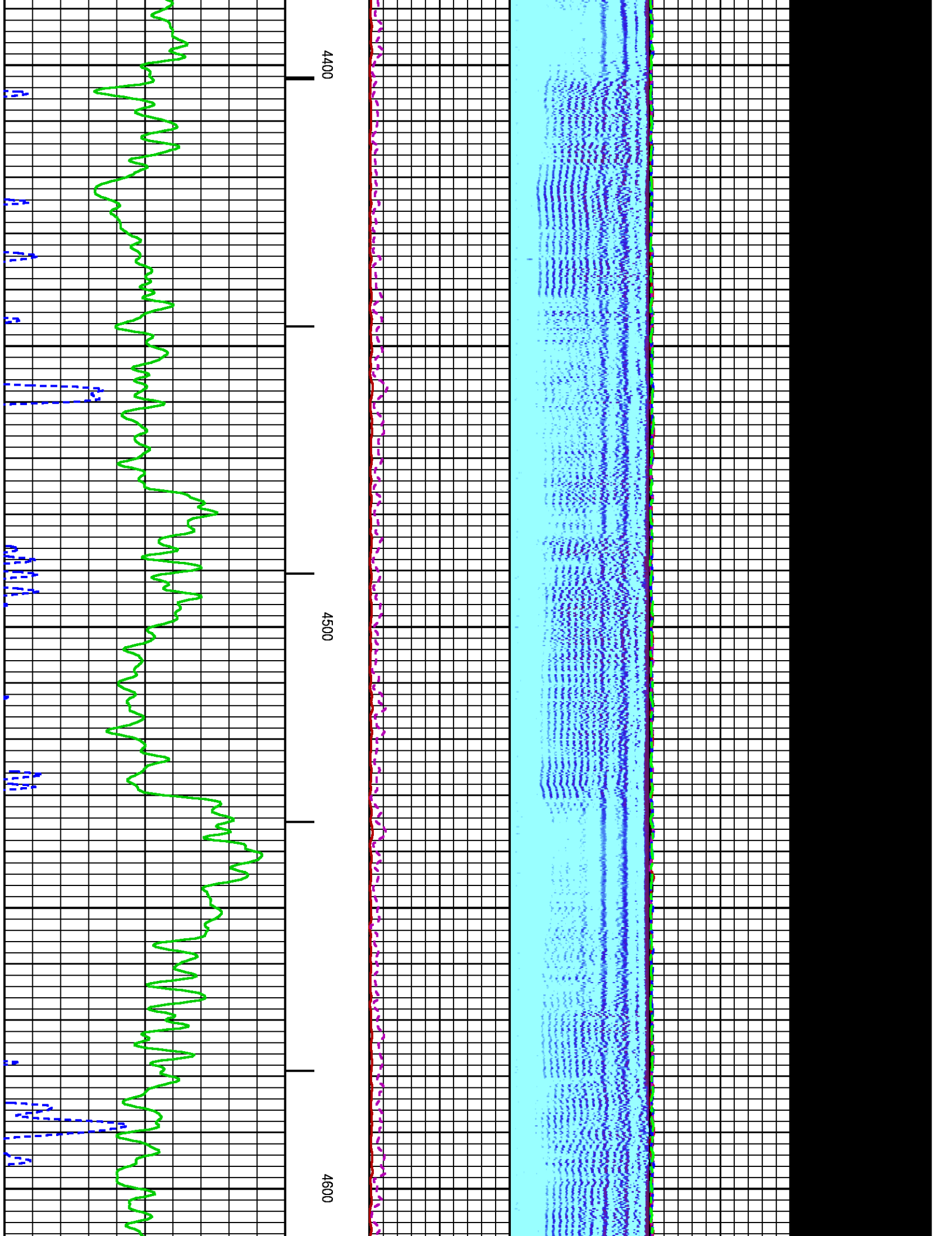


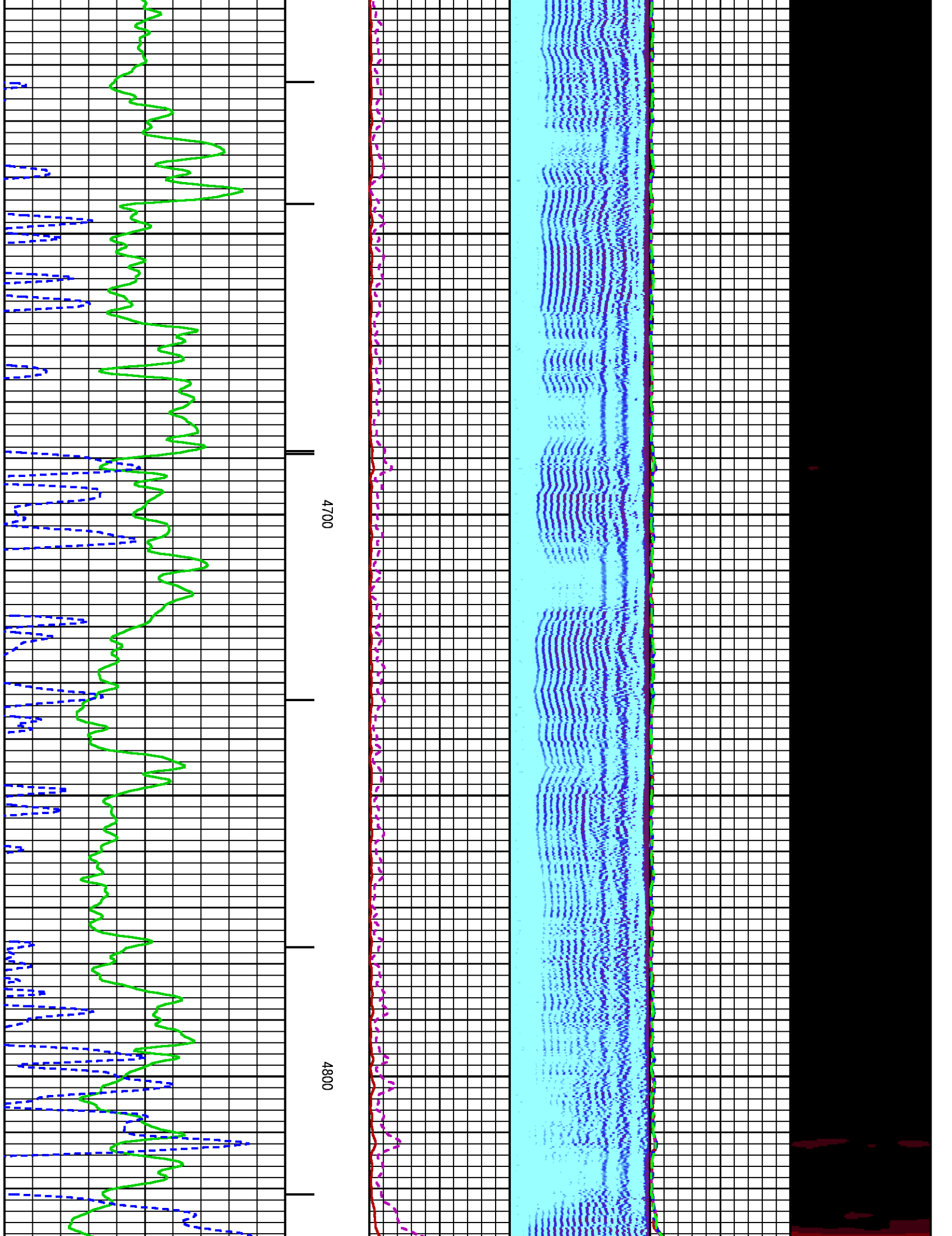


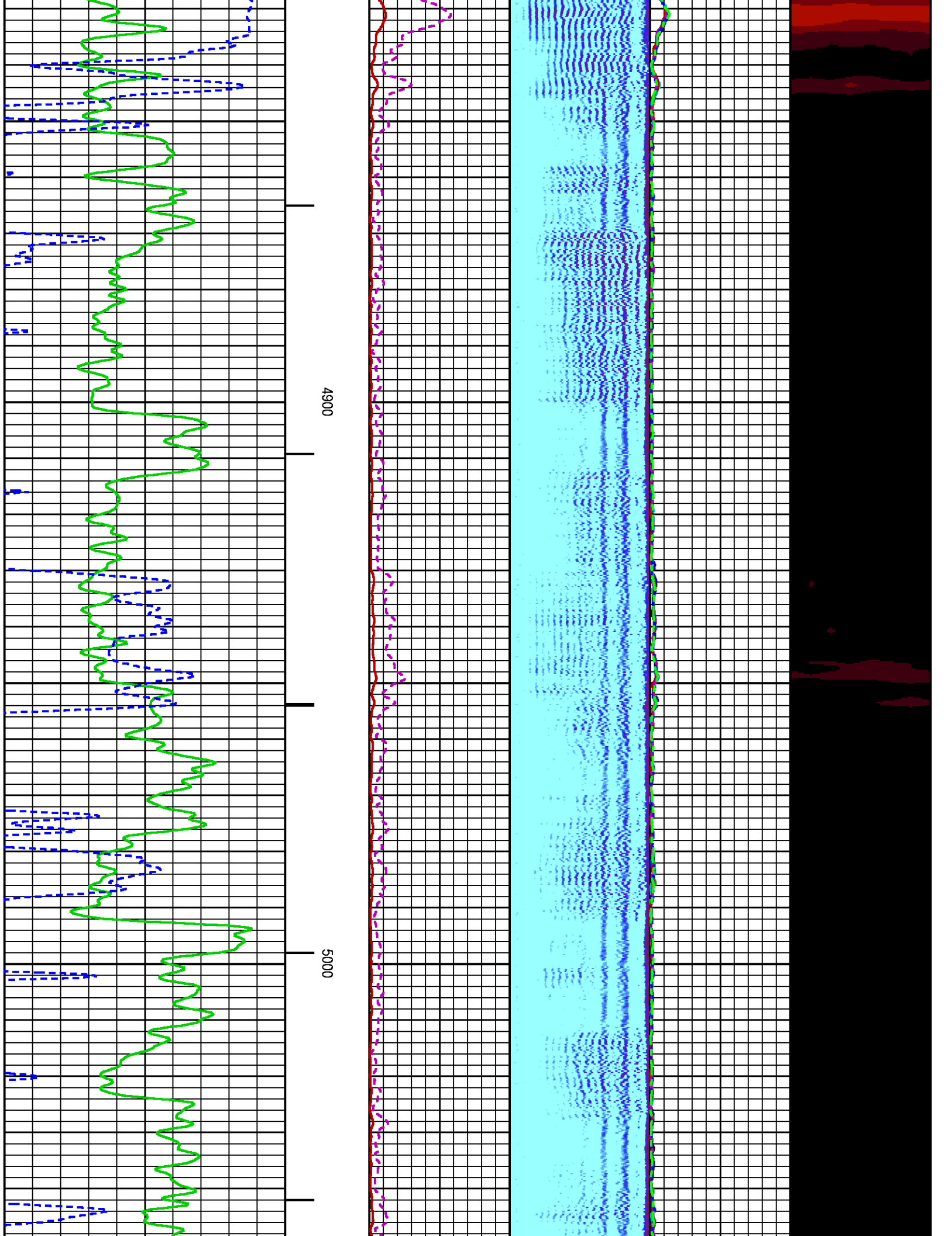


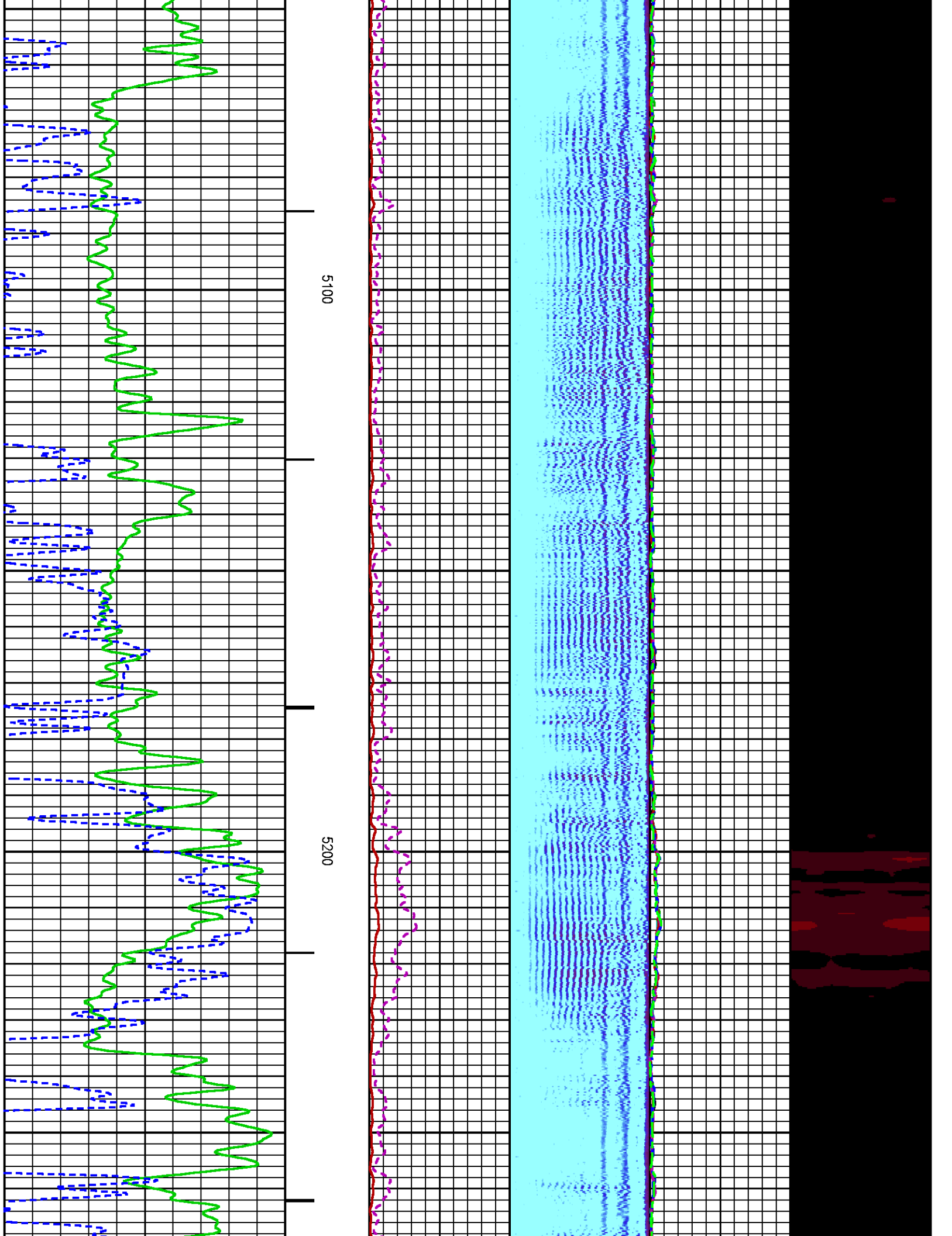


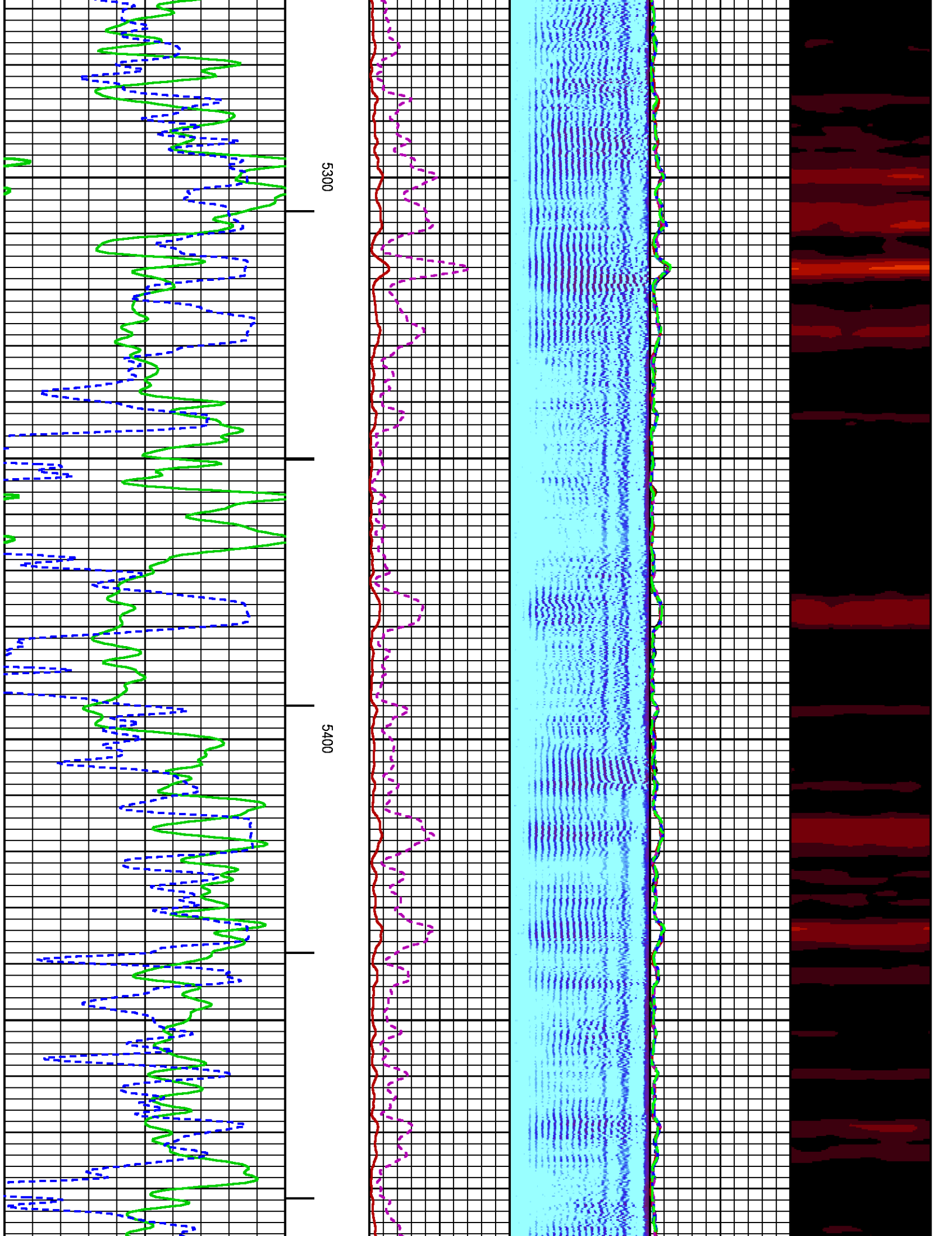


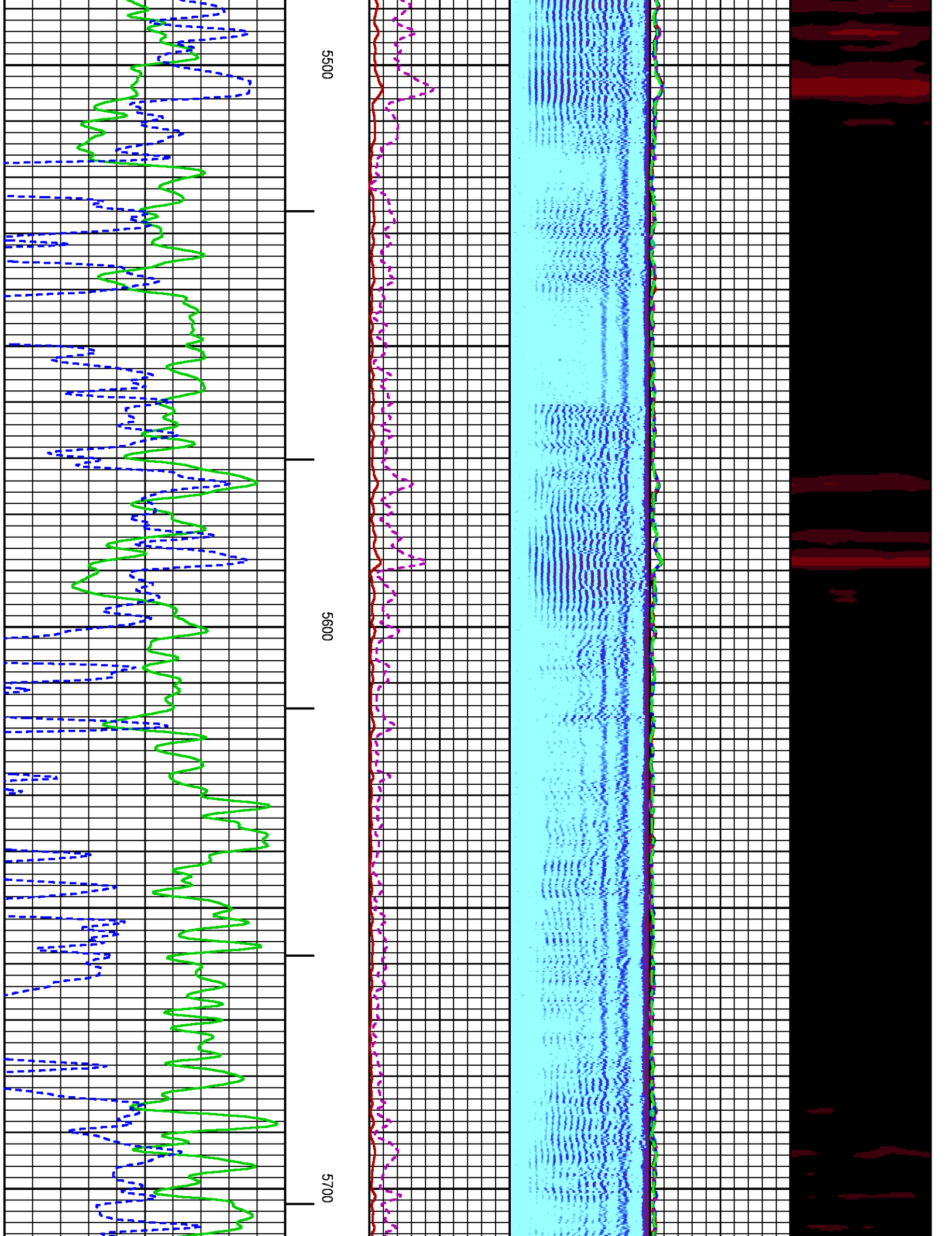


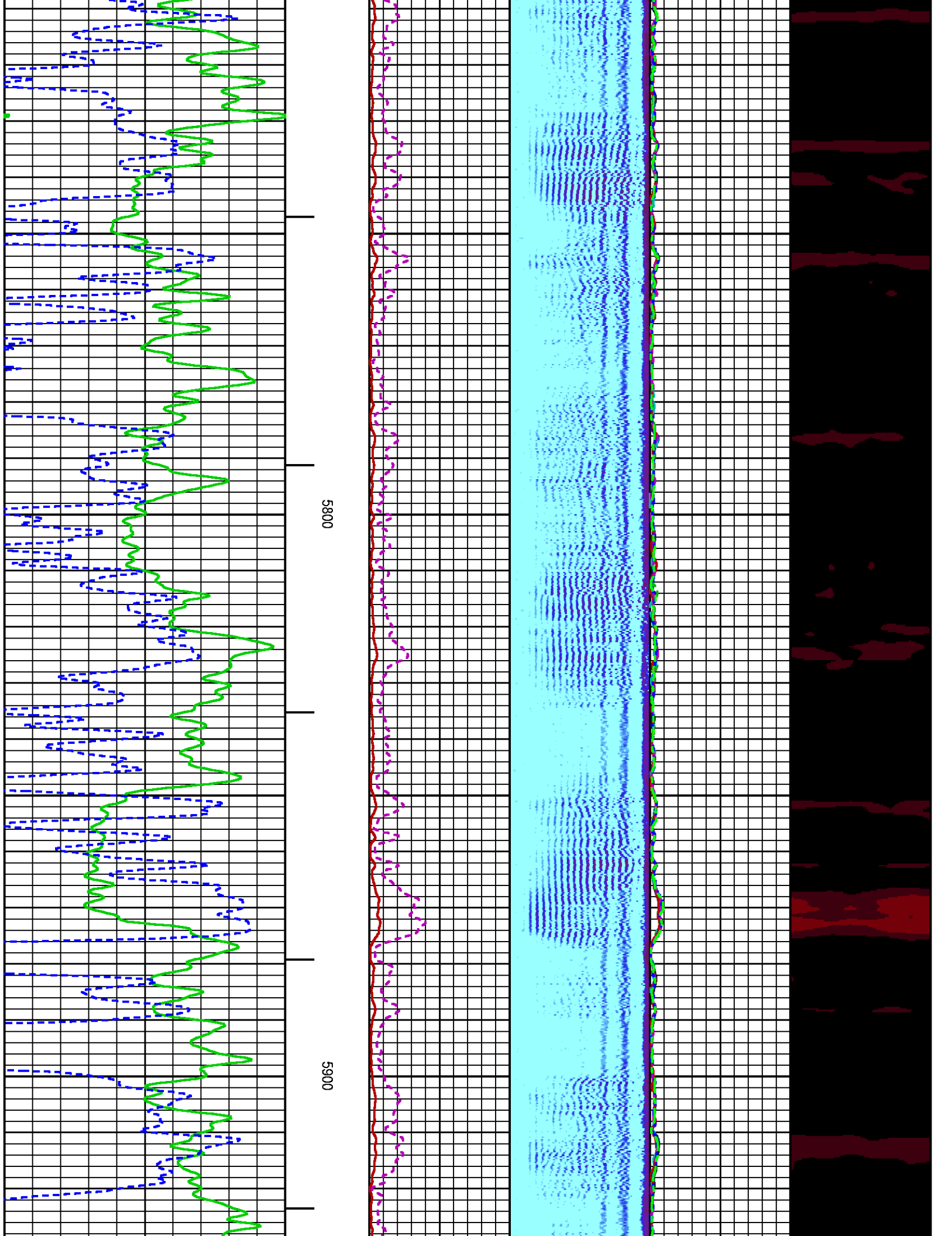


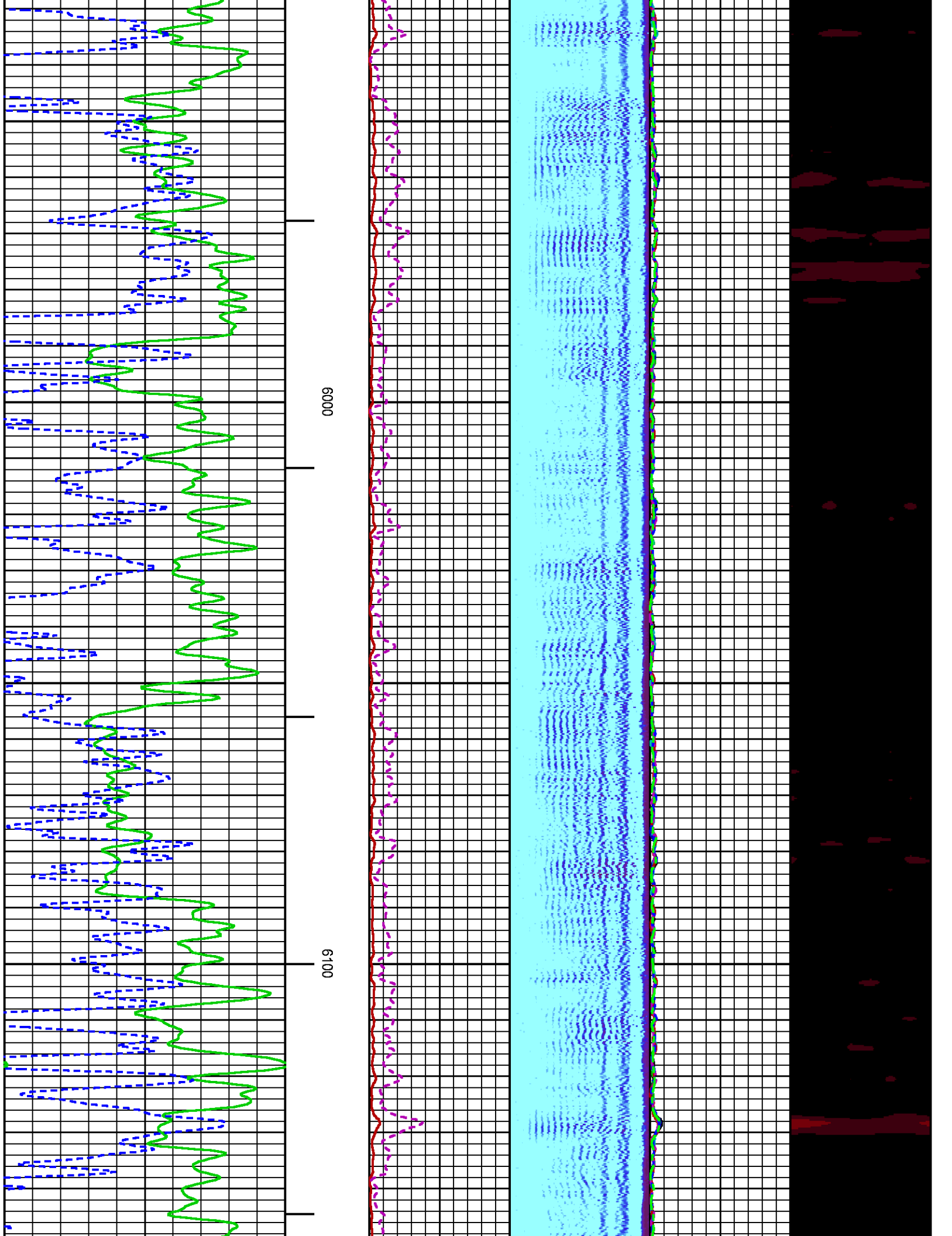


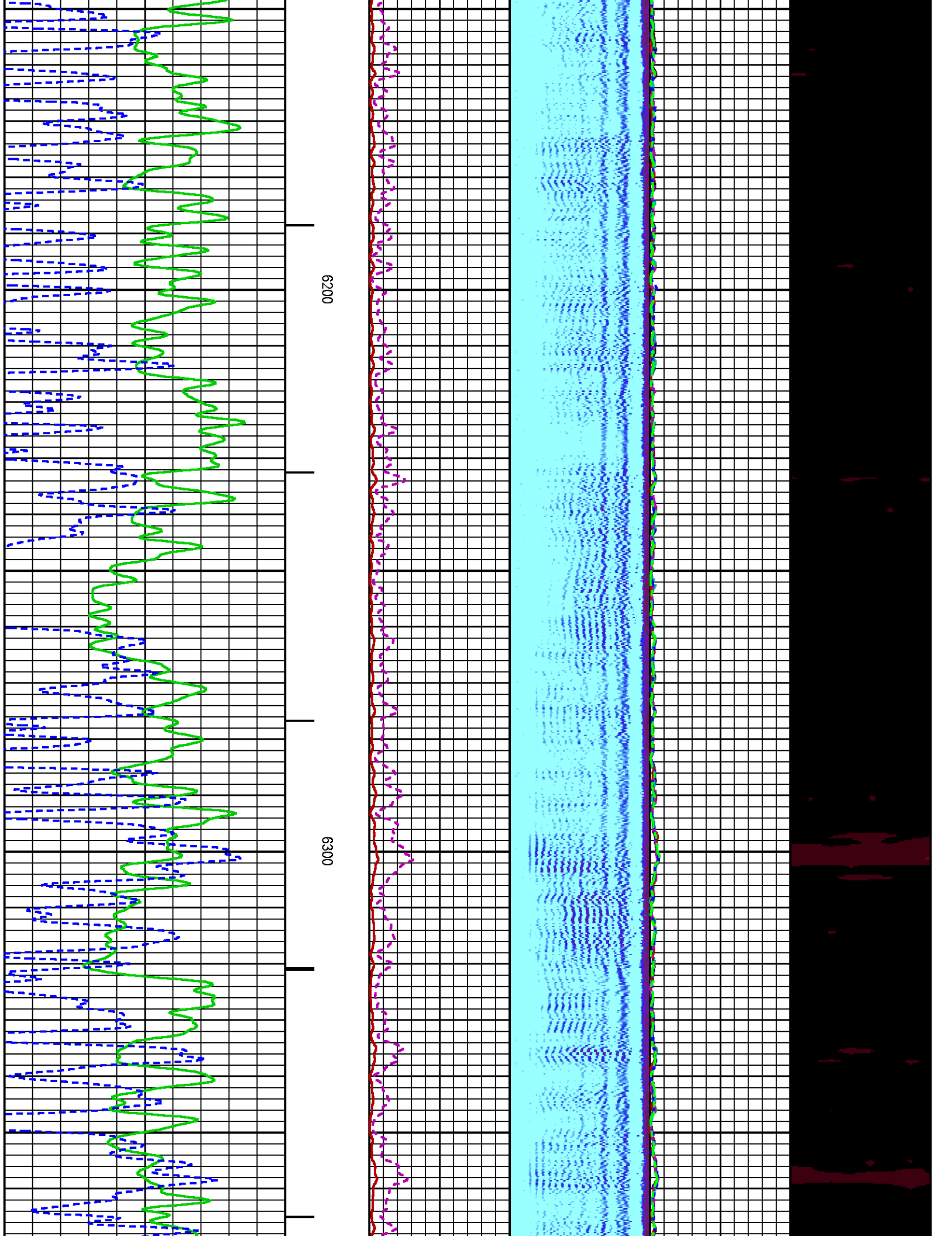


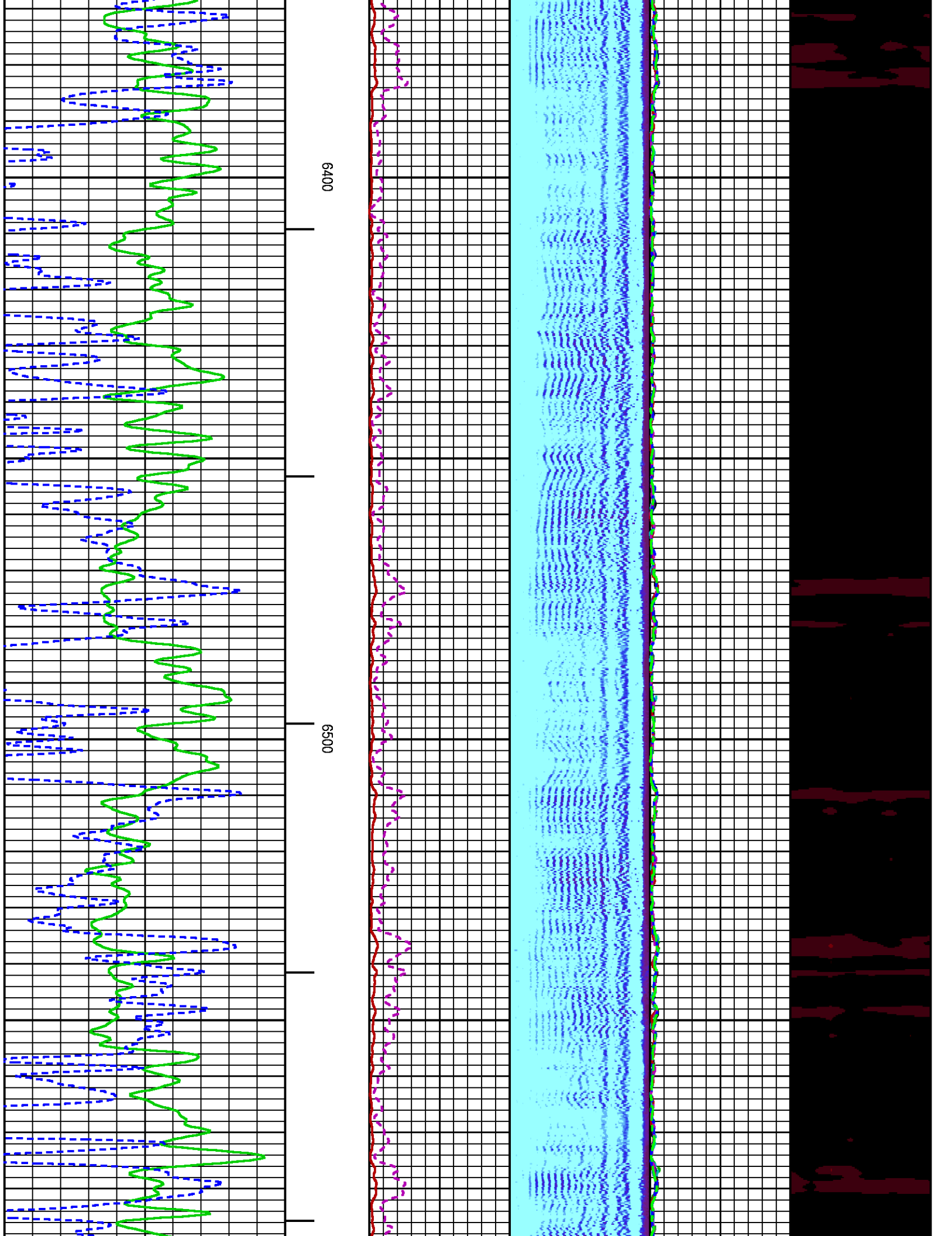


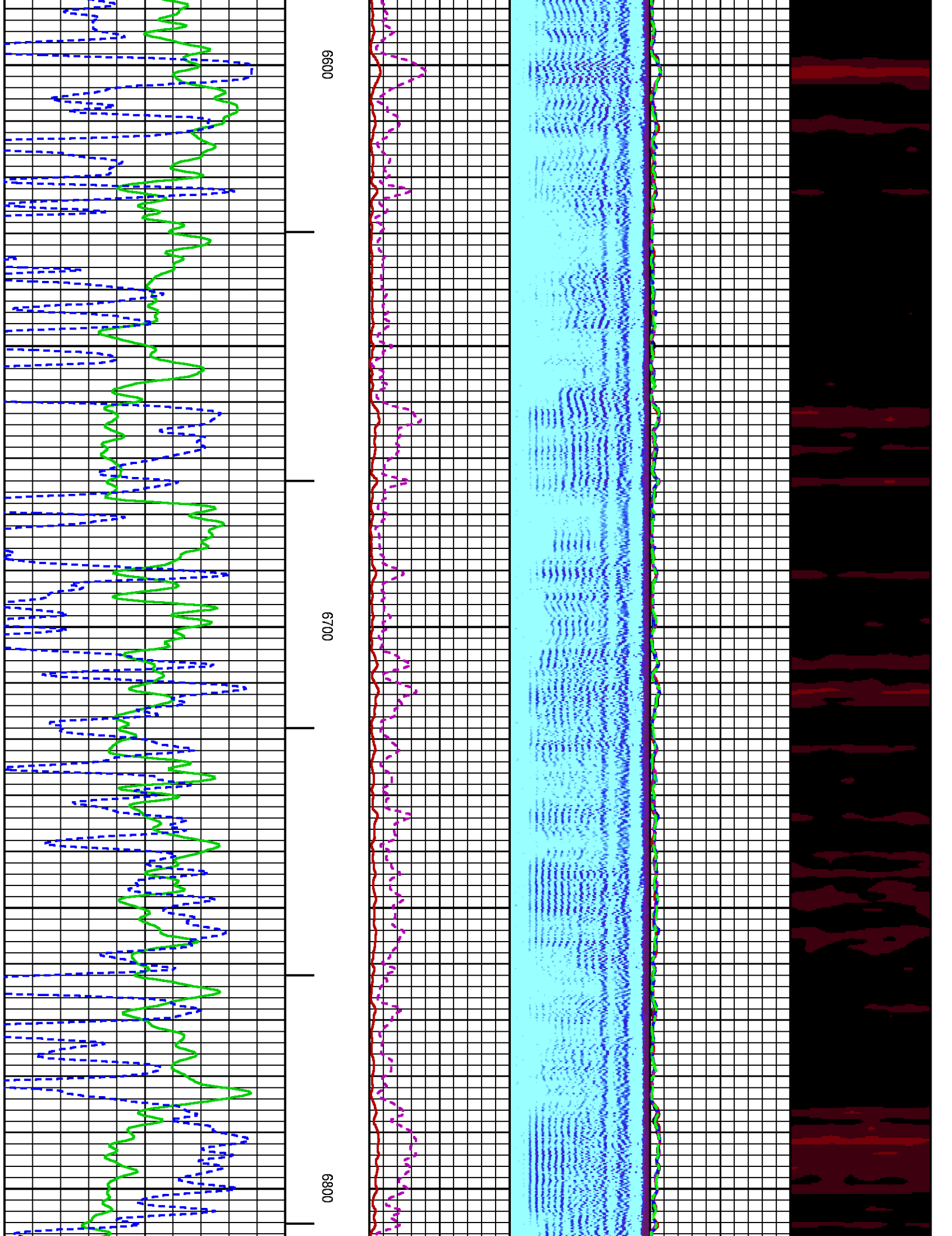


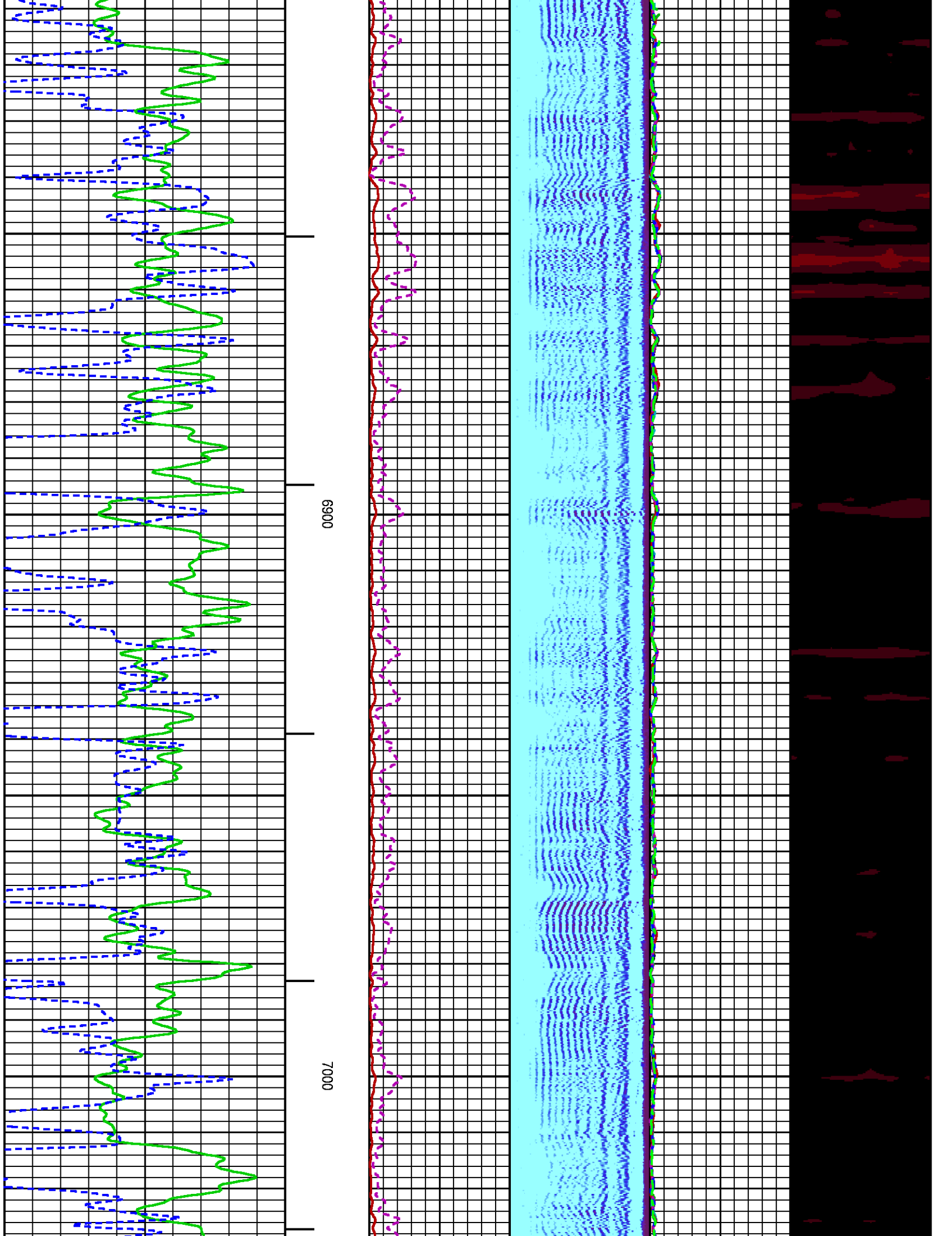


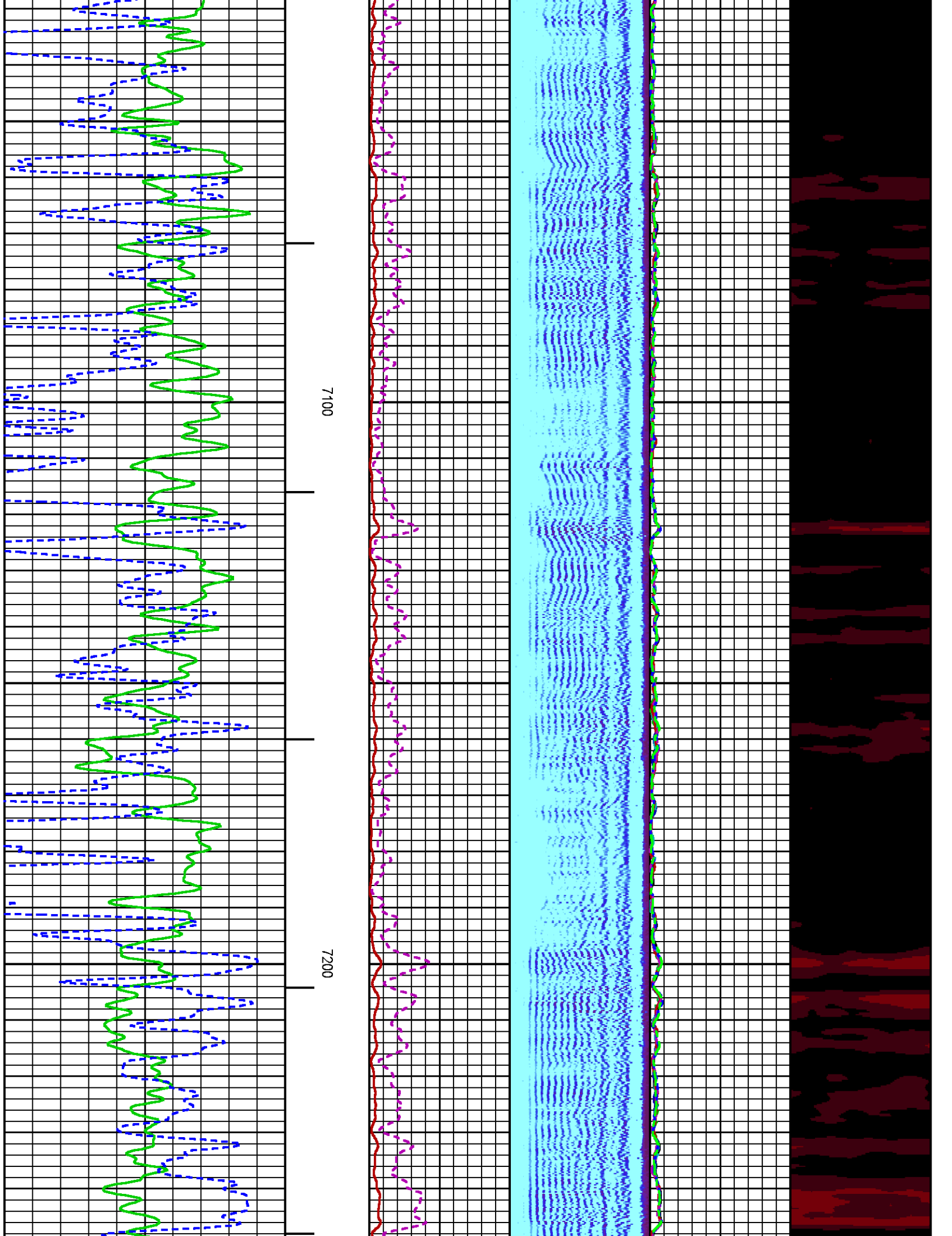


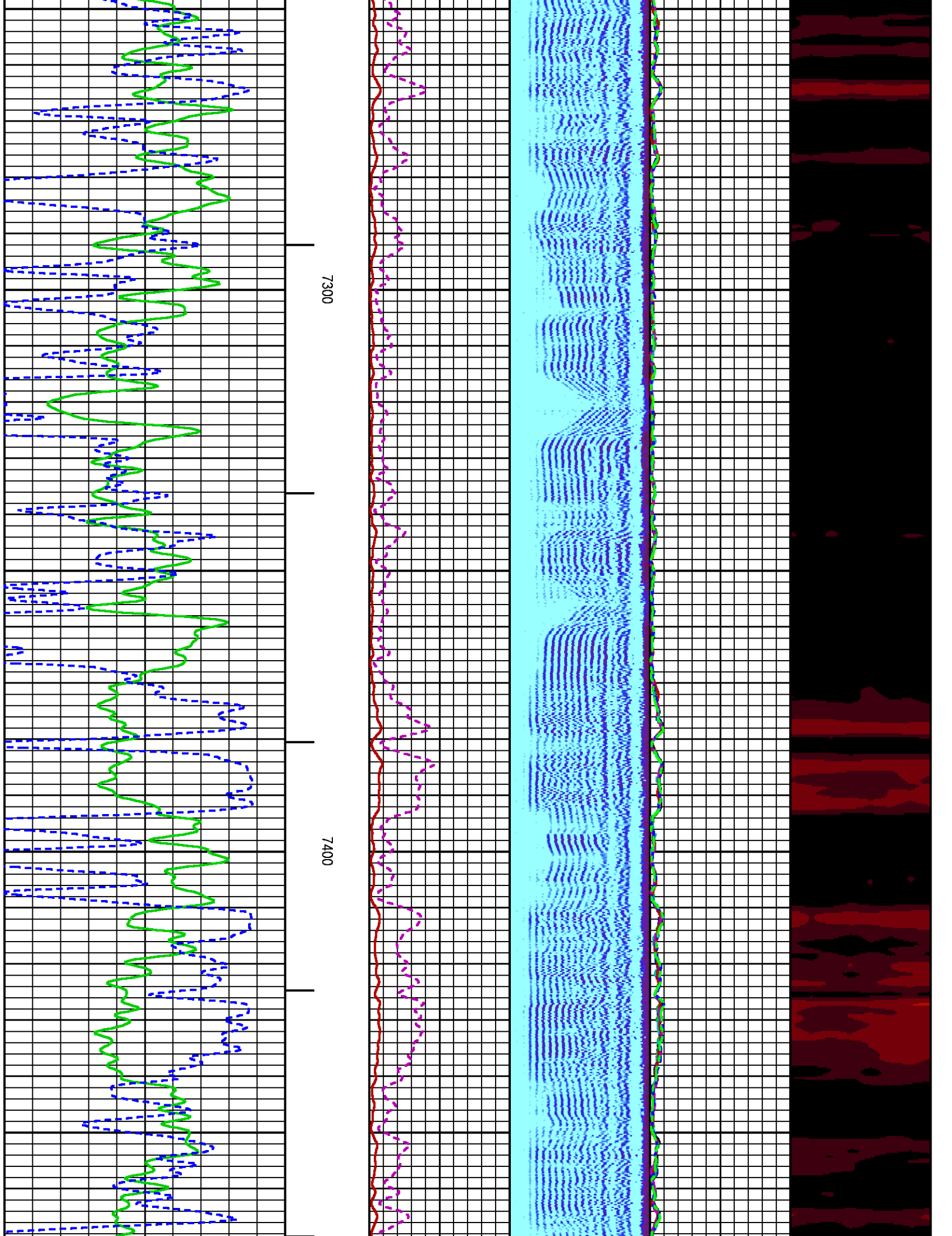


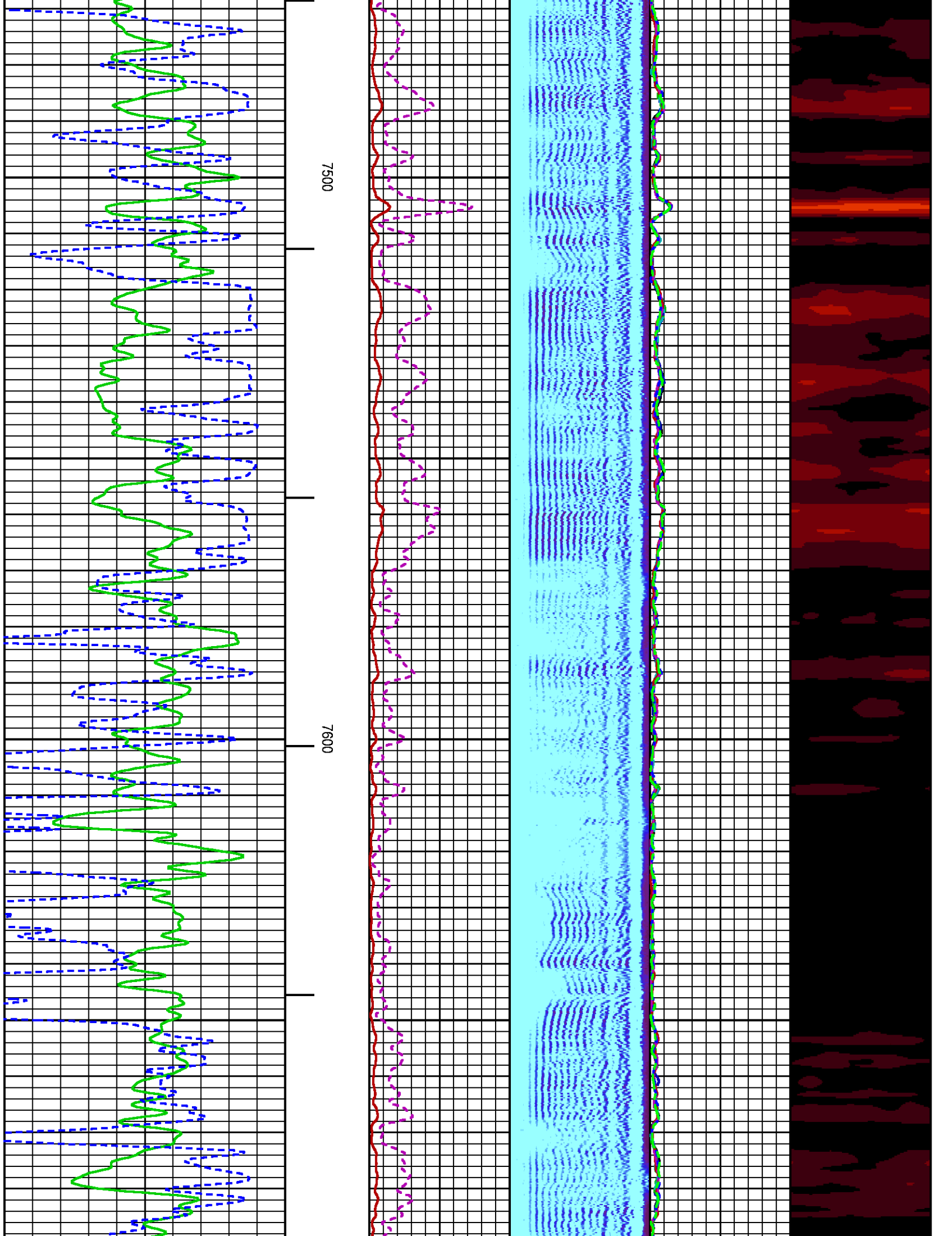


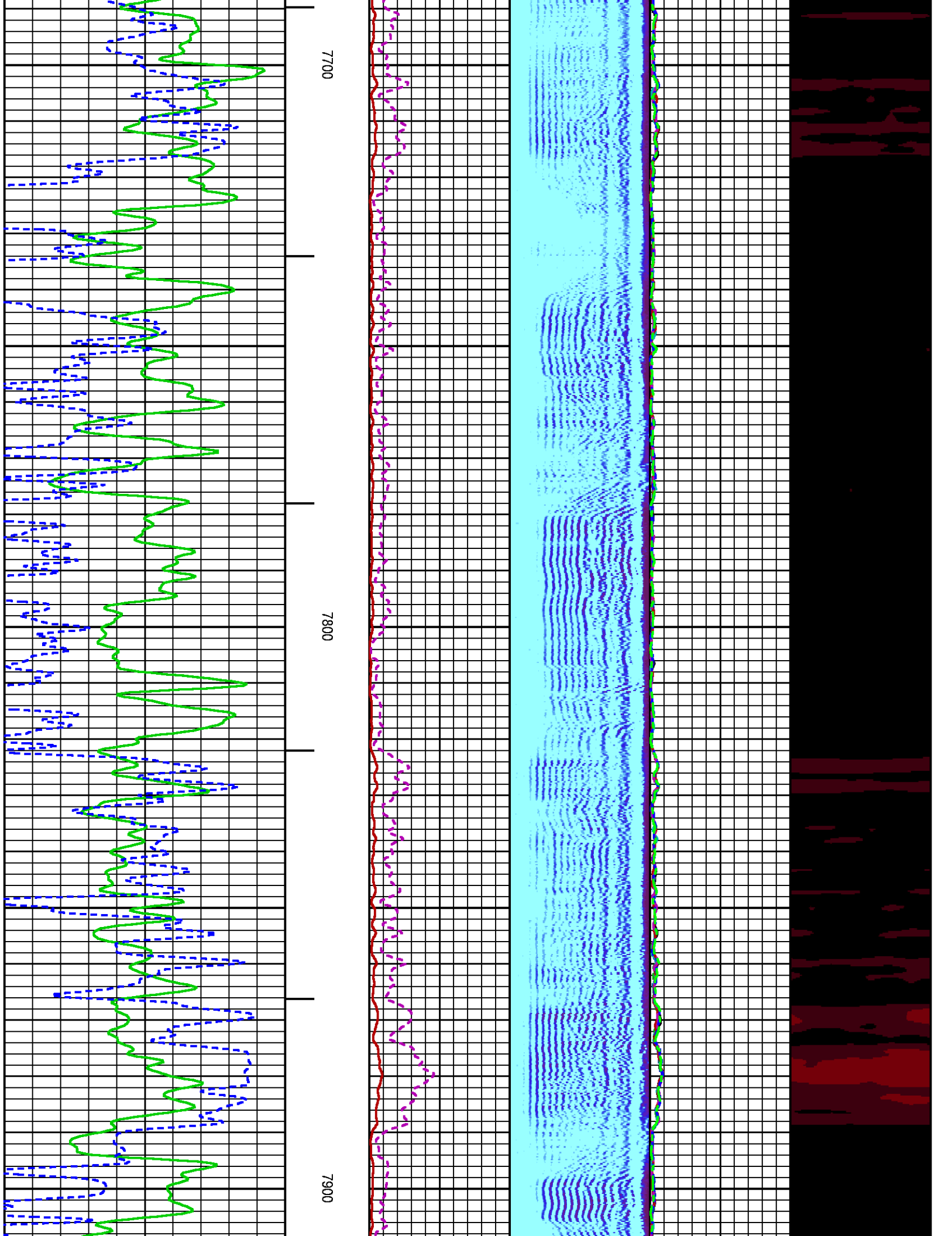


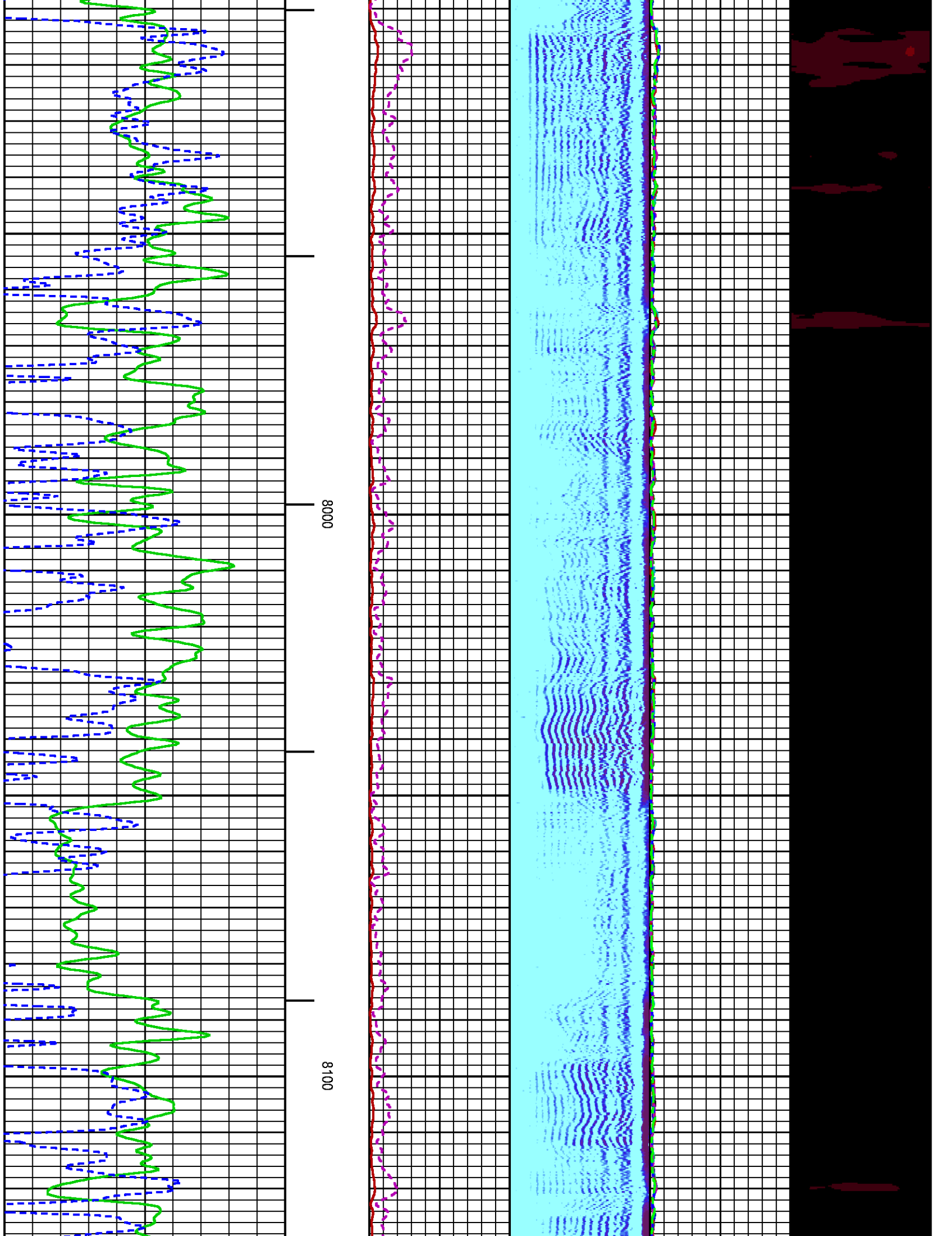


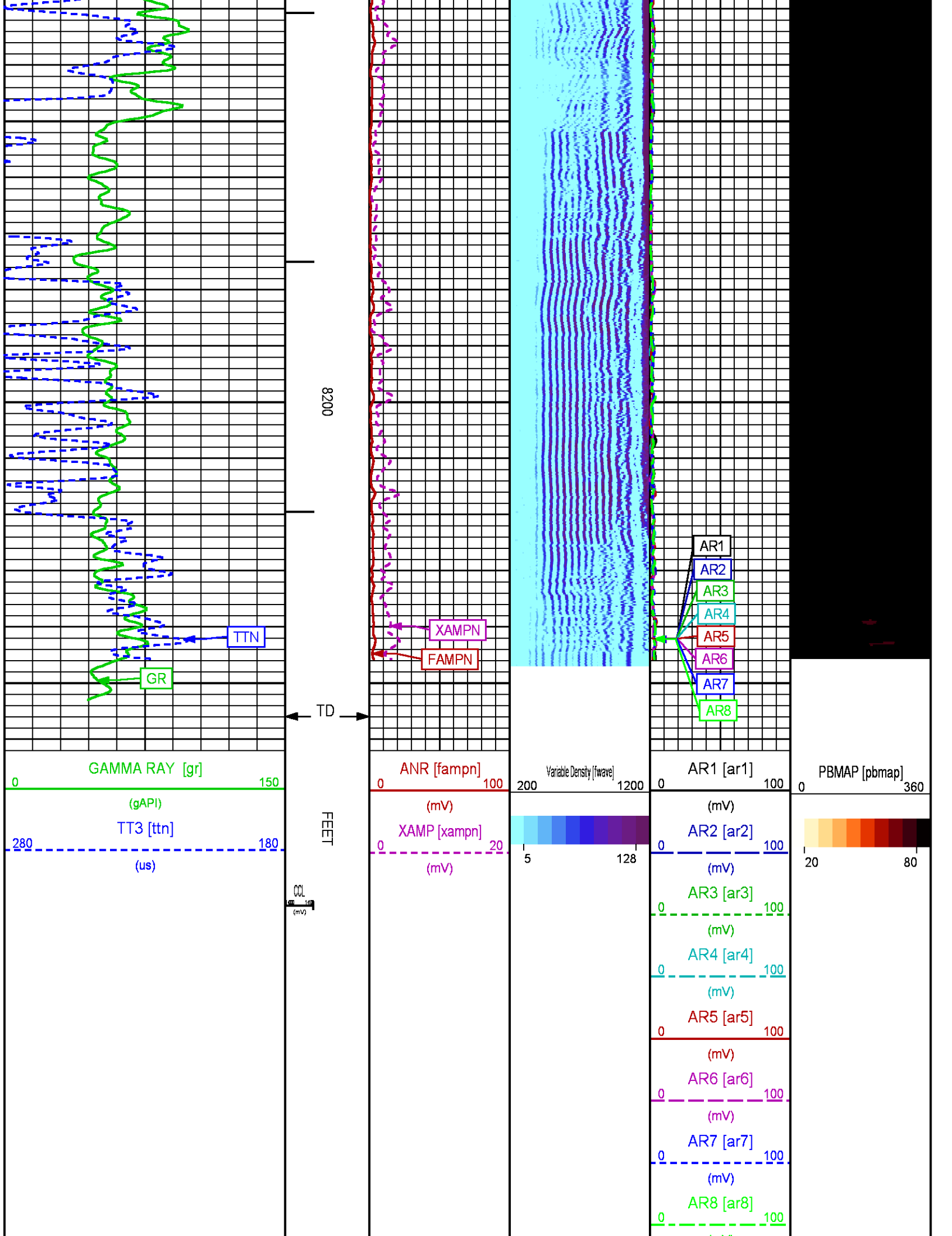












REPEAT LOG 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 31 Patches: 2

Plotted: Sat Mar 07 16:57:52 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: D:\dat1a\095177\012e01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7928.750 ft BOTTOM DEPTH: 8265.750 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	177	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*)	-67	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	Mar 6 14:35:06 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 6 14:35:06 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 6 14:35:06 2015	FAR WAVE FORM
F1:GR	Mar 6 14:35:06 2015	GAMMA RAY
F1:TTN	Mar 6 14:35:06 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 6 14:35:06 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

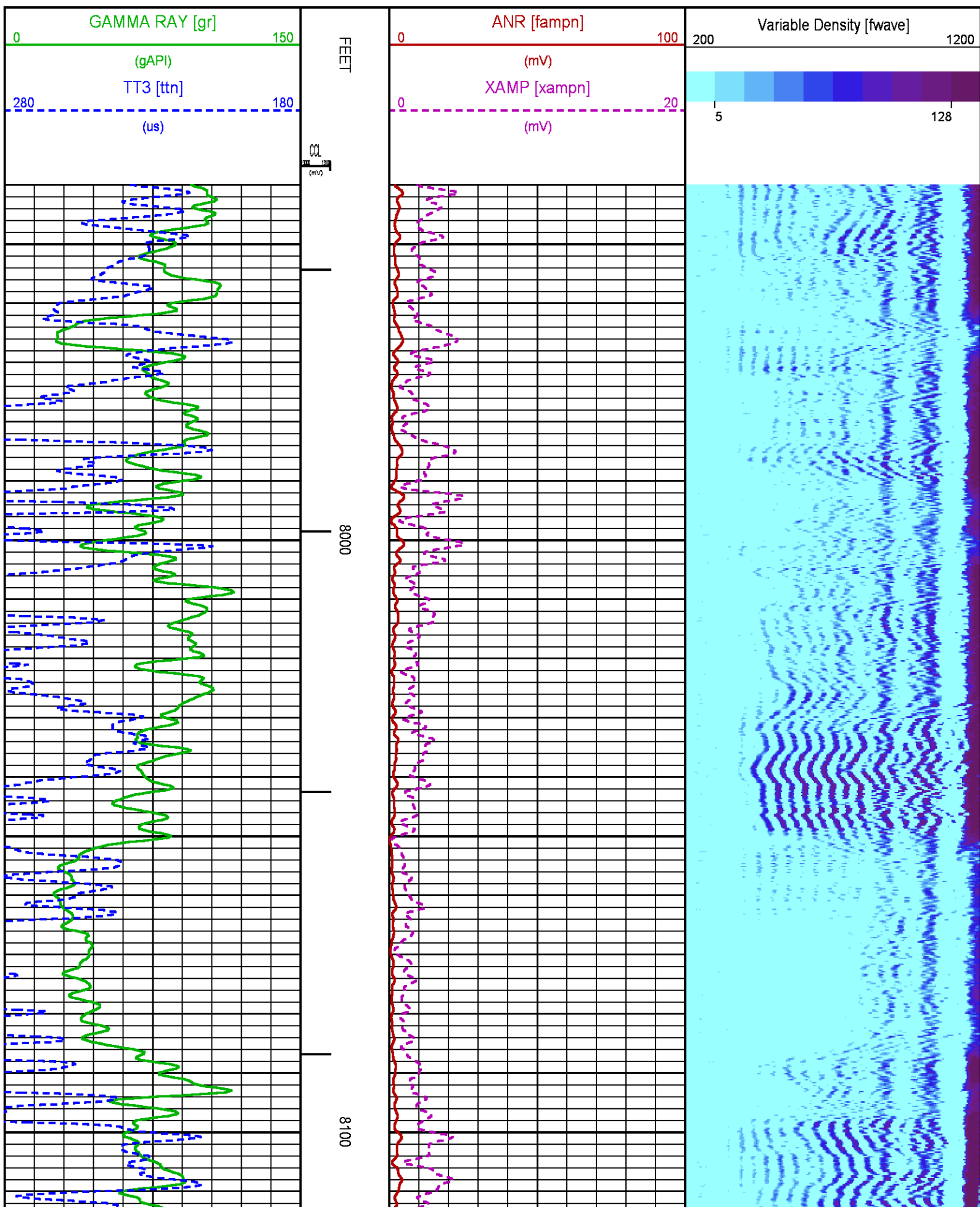
CURVE MEASURE POINT OFFSET

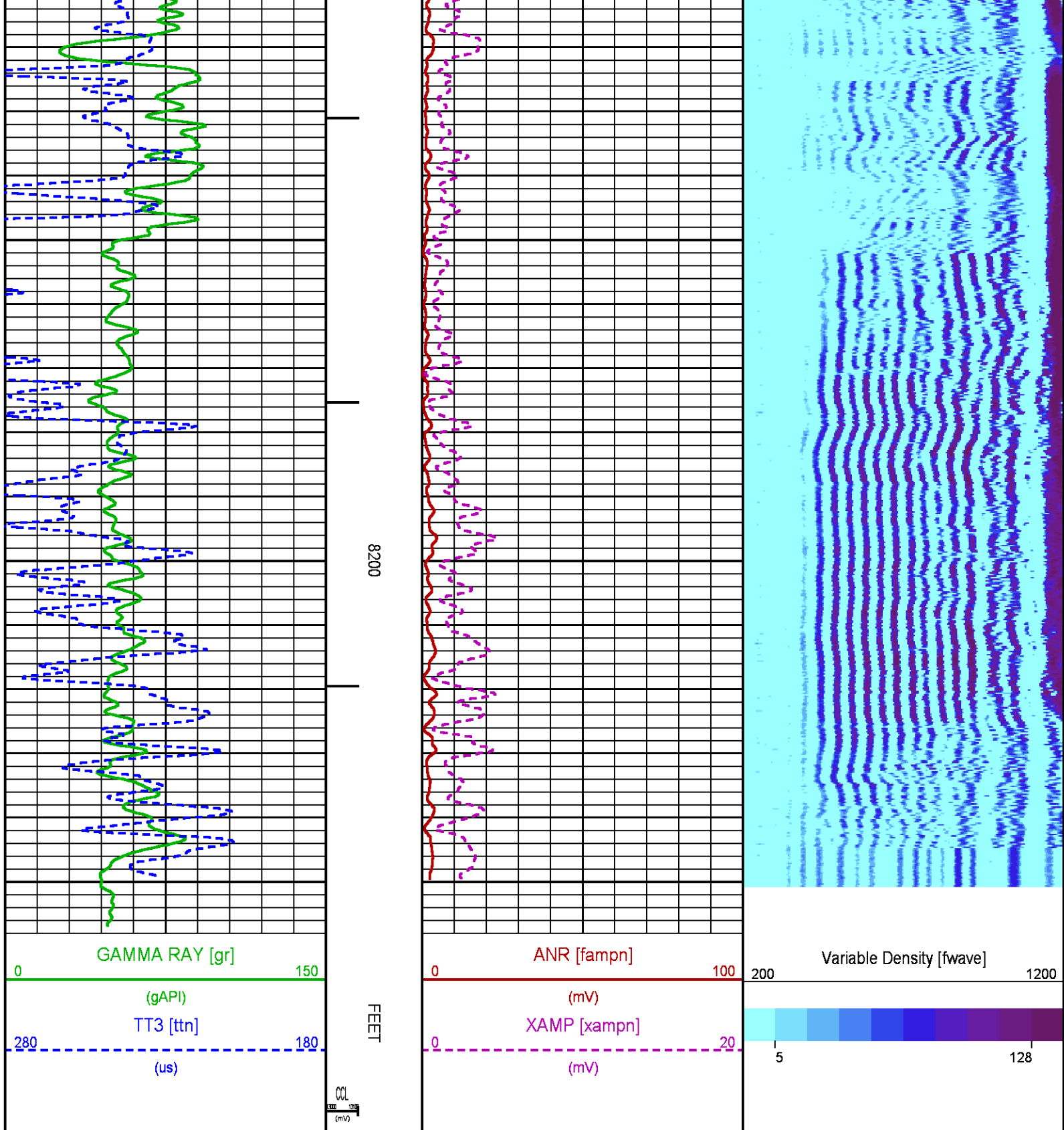
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

Presentation : BHIBX9FSY1:D:\dat1a\095177\43CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 7940 - 8263 Feet

Data File 1 : F1 : BHIBX9FSY1:D:\dat1a\095177\43CBL_REPEAT.xtf
Created On : Mar 6 14:35:06 2015

Company : WPX ENERGY
Well : MEAD RWF 43-23
Field : RULISON
File Interval : 7913.75 - 8264.5 Feet
OCT : n012e





CALIBRATION / VERIFICATION SUMMARY

Source File: D:\dat1a\095177\012e.lp1

RAL PRIMARY CALIBRATION SUMMARY

NOT IN DATABASE

RAL BEFORE LOG VERIFICATION SUMMARY

NOT IN DATABASE

GR PRIMARY CALIBRATION SUMMARY

NOT IN DATABASE

GR PRIMARY VERIFICATION SUMMARY

NOT IN DATABASE

INSTRUMENT CONFIGURATION

Source File: D:\dat1a\095177\CBL-tdg.meta

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH095176/CBL-tdg

CABLEHEAD

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

23.02'

RADIAL BOND TOOL

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

NEAR RCVR — 13.81'

FAR RCVR — 12.85'

RAL NEUTRON/GR/CCL/CHV DETECTOR

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



CCL 8.65'

GR 6.79'

NEU 1.40'

0.00'

BULL PLUG 2 3/4

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



COMPANY WPX ENERGY
 WELL MEAD RWF 43-23
 FIELD RULISON
 COUNTY GARFIELD STATE CO

FILE NO: CH095177
 API NO: 05045200500000

LOCATION:

SHL: 2293' FSL & 226' FEL
 BHL: 2250' FSL & 203' FEL

SEC 23 TWP 6S RGE 94W

ELEVATIONS:

KB 5625 FT
 DF
 GL 5599 FT

23 6S 94W
 RWF 43-23 PAD
 NABORS 577

DATE 06-Mar-2015

