



FILE NO: CH091033	COMPANY WELL FIELD COUNTY	WPX ENERGY FEDERAL SG 33-28 GRAND VALLEY GARFIELD	STATE CO
API NO: 05045219600000			

Ver. 3.87 28 7S 96W SG 43-28 PAD H&P 318	LOCATION: SHL: 2256' FSL & 481' FEL BHL: 2295' FSL & 2187' FEL SEC 28 TWP 7S RGE 96W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB ELEVATION 24 FT ABOVE P.D. KB GL	ELEVATIONS: KB 5143 FT DF GL 5119 FT
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DATE	02-Oct-2014
RUN	1
SERVICE ORDER	US091033
DEPTH DRILLER	6070 FT
DEPTH LOGGER	6046 FT
BOTTOM LOGGED INTERVAL	6036 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	7:00
TIME FINISHED	11:30
OPERATOR RIG TIME	4.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	65 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 FMIN
MAX. RECORDED TEMP.	187 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	NEWELL
RECORDED BY	JEFF BRADY
WITNESSED BY	

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	1695 FT
8.75 IN	1695 FT	6096 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	1695 FT
4.5 IN	11.6 LB/F	I-80	0 FT	6096 FT

REMARKS

RUN 1 TRIP 1: All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at the client's request.

The amount of linear shift is 3 feet.

Logged with zero PSI at wellhead

BHT = 187 degF
SJ = 2422' - 2444'

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

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10218495	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: 3

Plotted: Thu Oct 2 12:12:27 2014

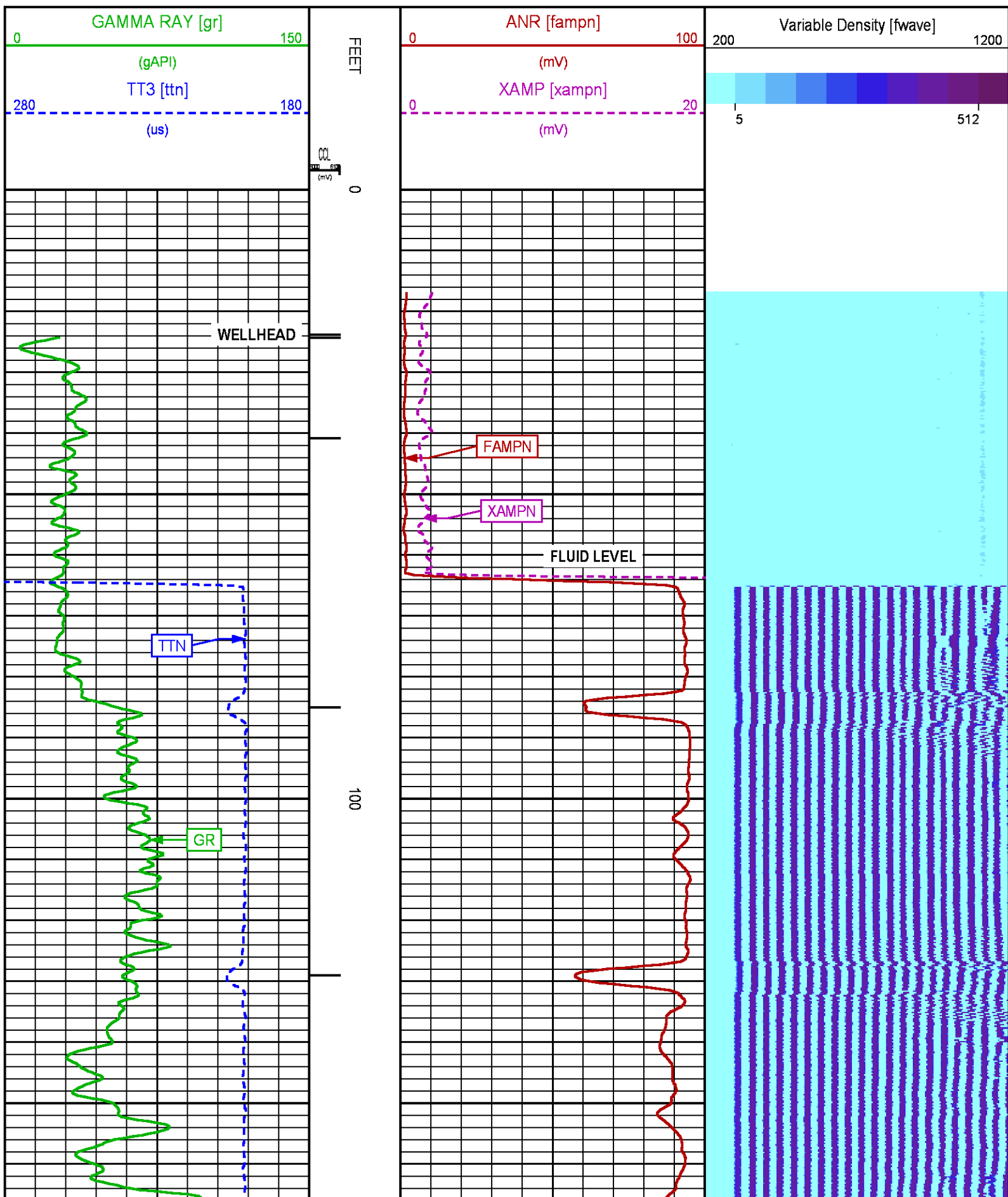
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH91033/n012eR02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 20.750 ft BOTTOM DEPTH: 6043.250 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
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*)	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*)	-71	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

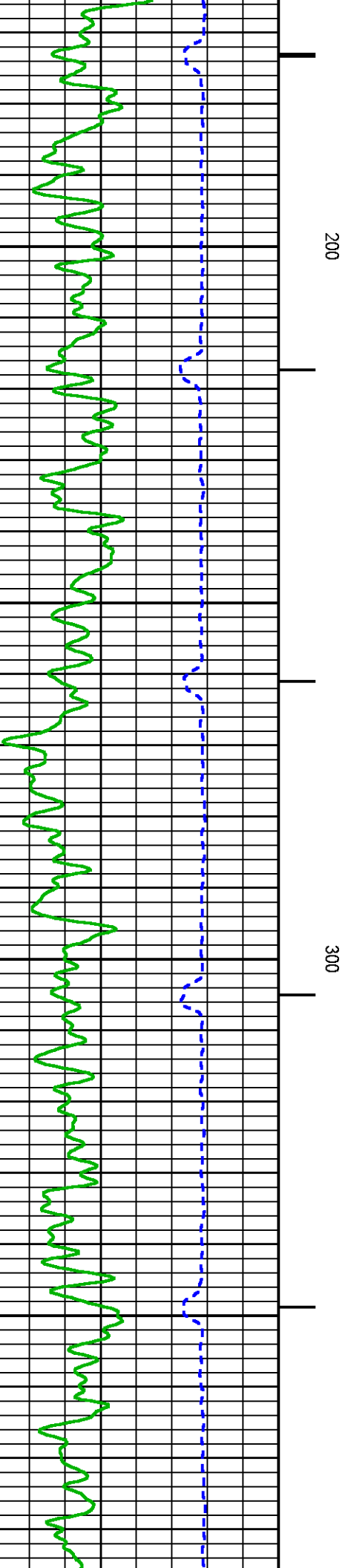
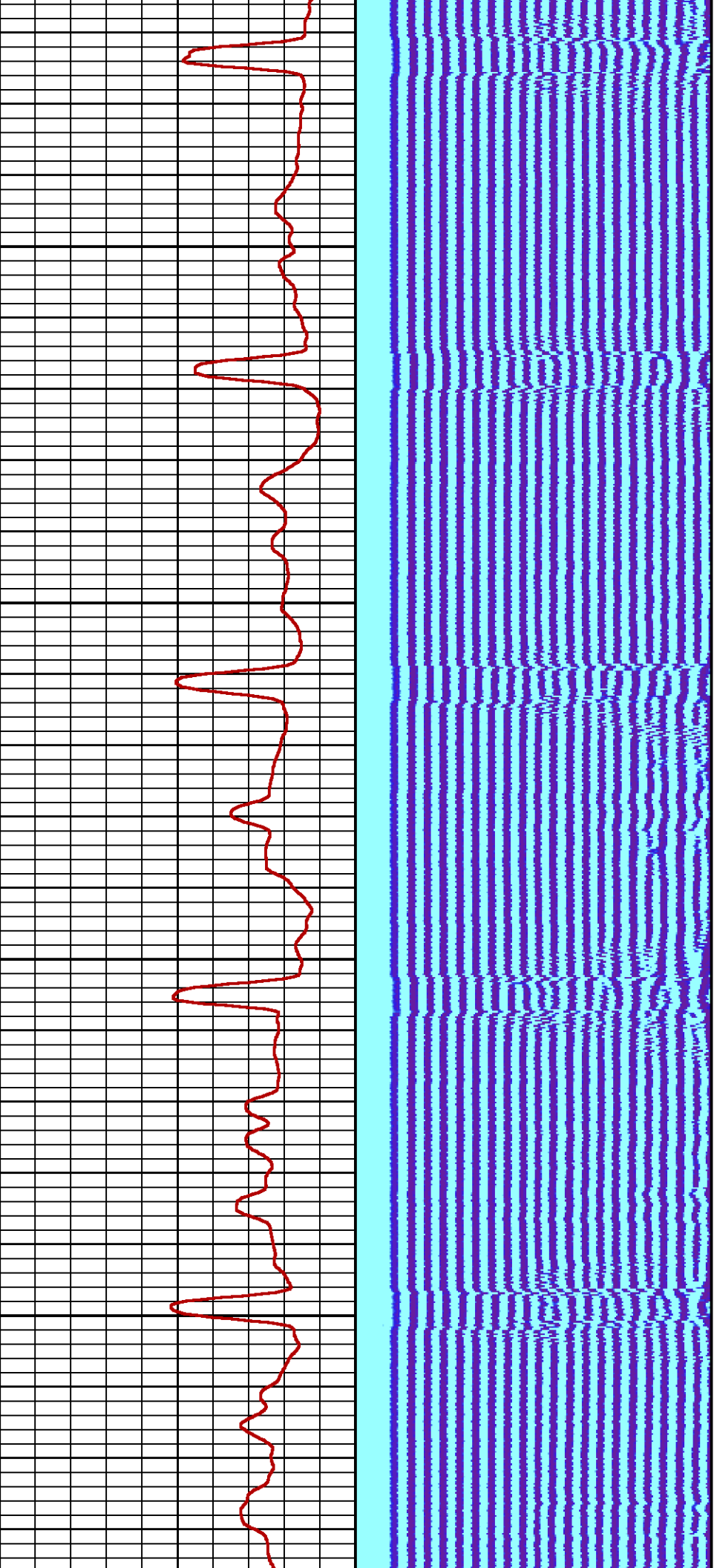
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Oct 2 10:57:47 2014	CASING COLLAR LOCATOR
F1:FAMPN	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 2 10:57:47 2014	FAR WAVE FORM
F1:GR	Oct 2 10:57:47 2014	GAMMA RAY
F1:TTN	Oct 2 10:57:47 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

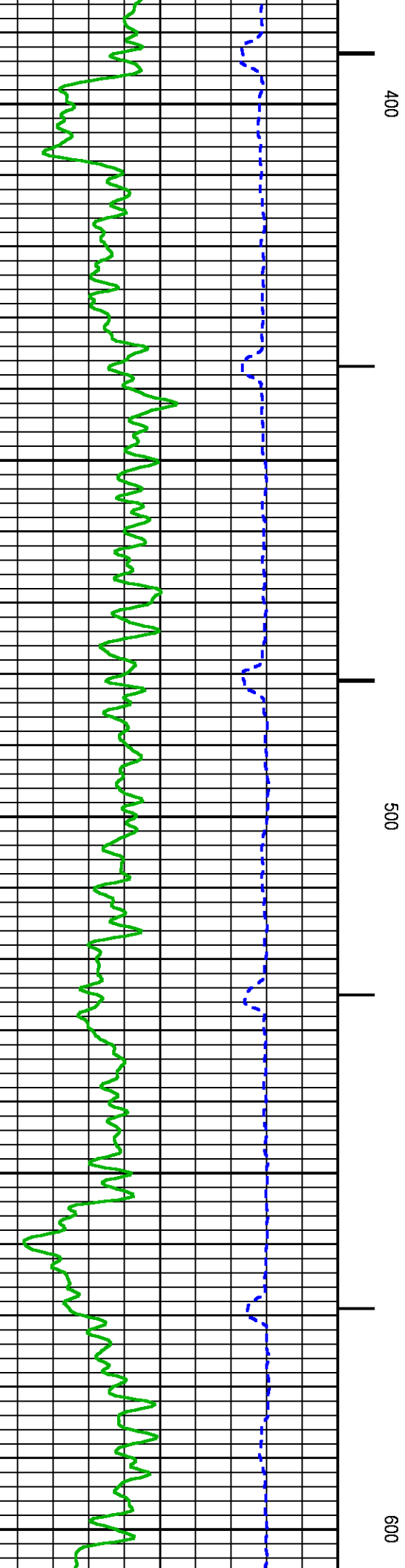
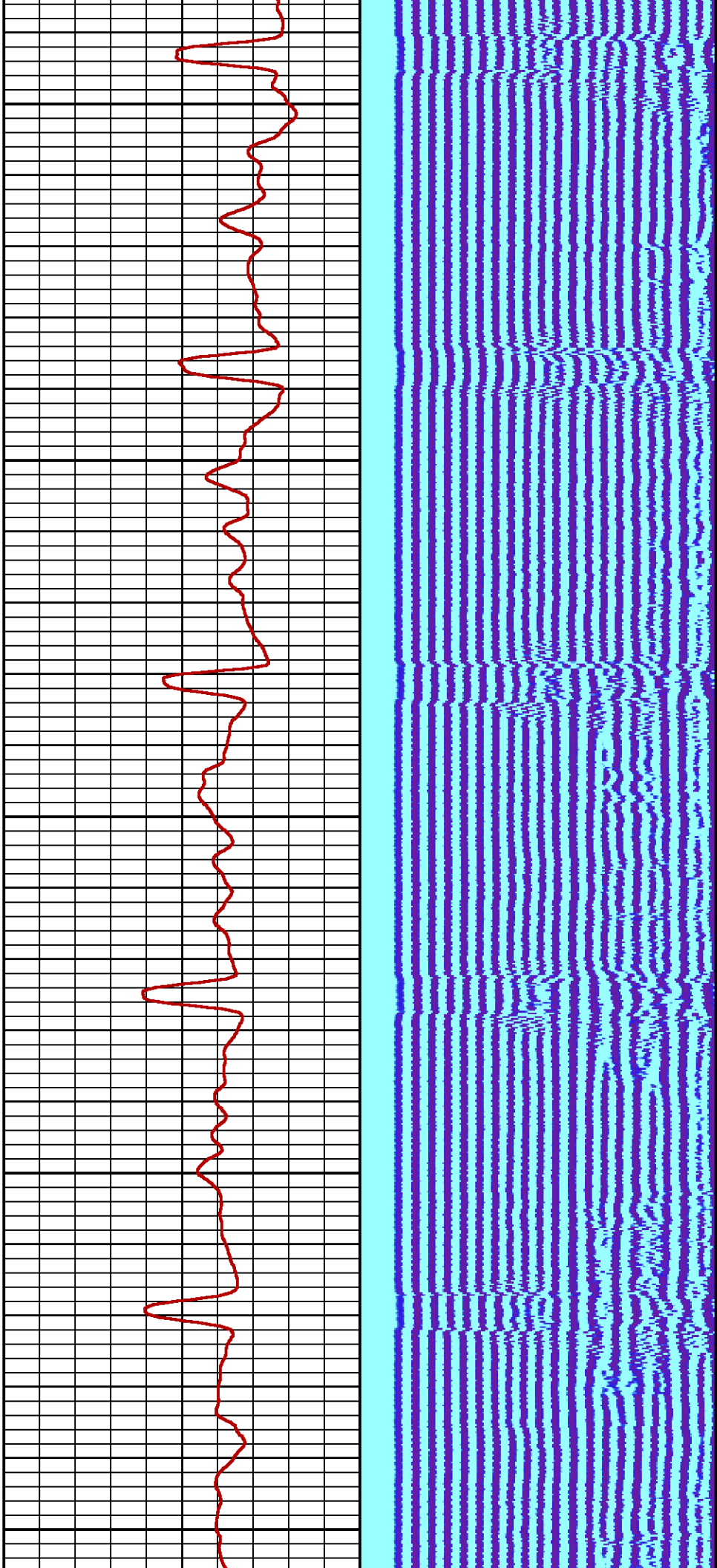
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

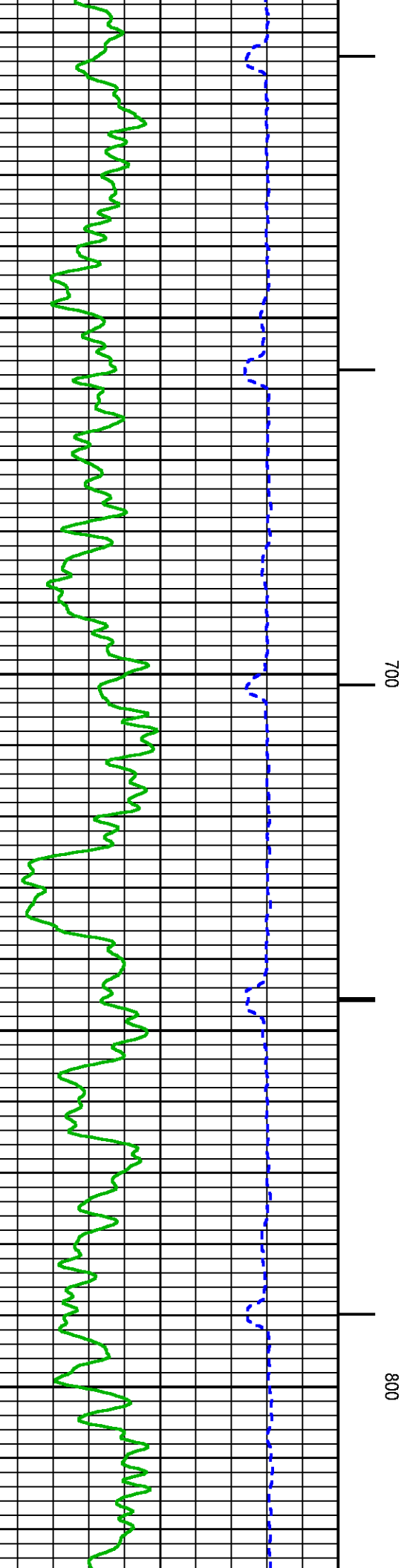
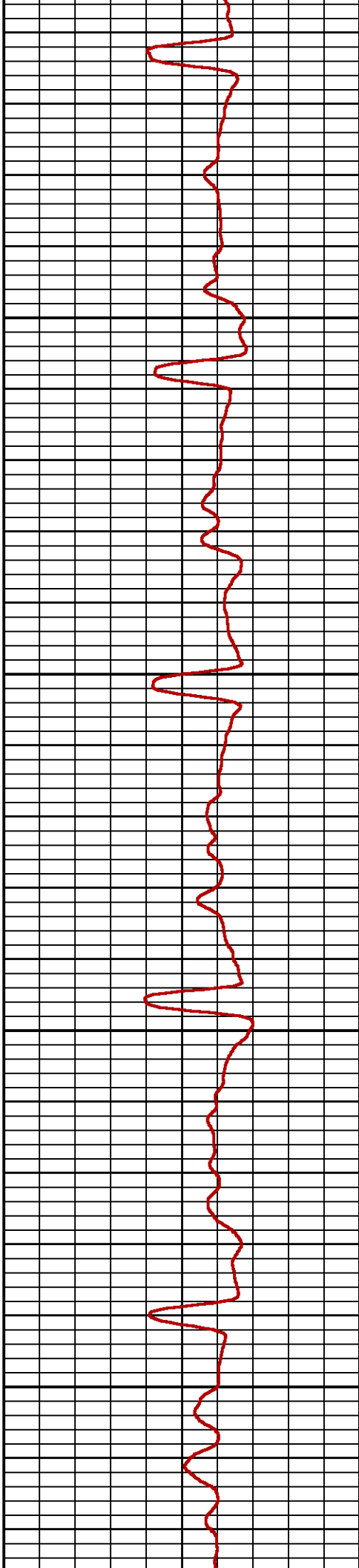
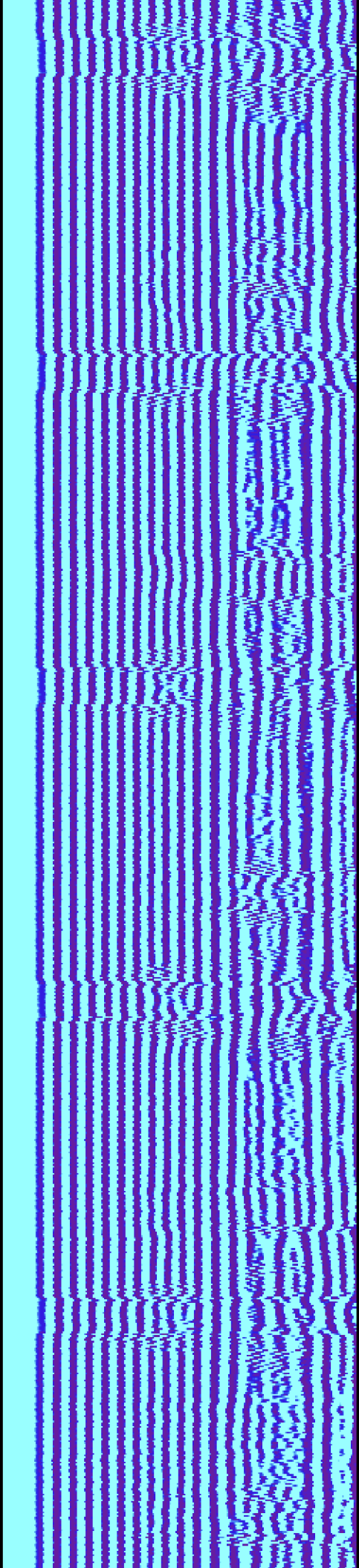
Presentation	: HL6670:/dat1a/CH91033/CBL_PRIMARY.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 6051 Feet

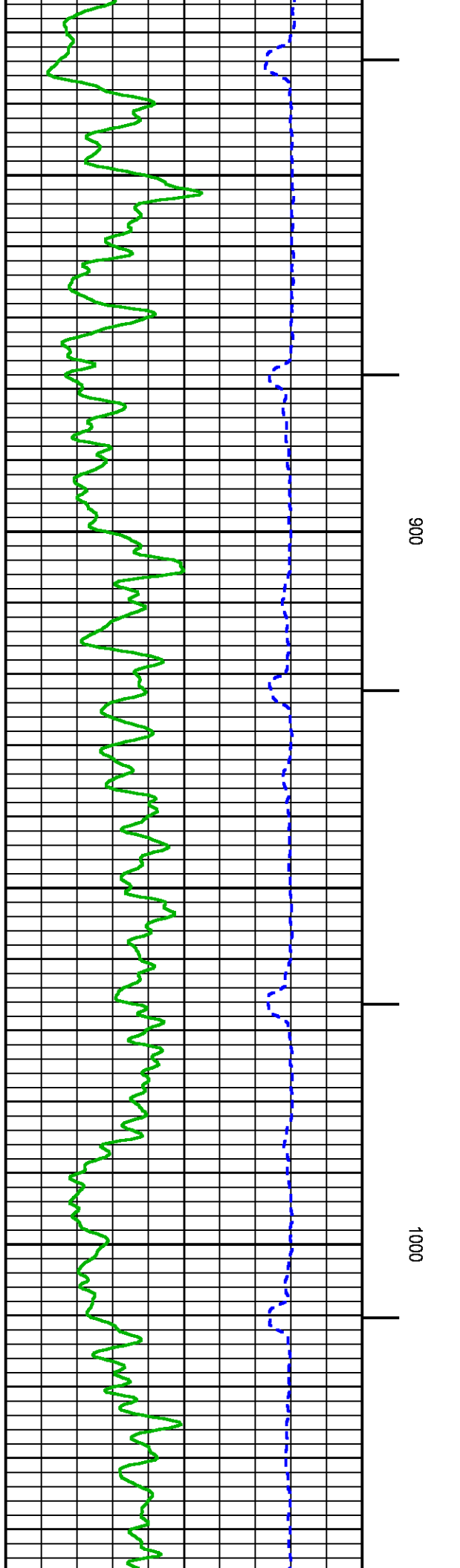
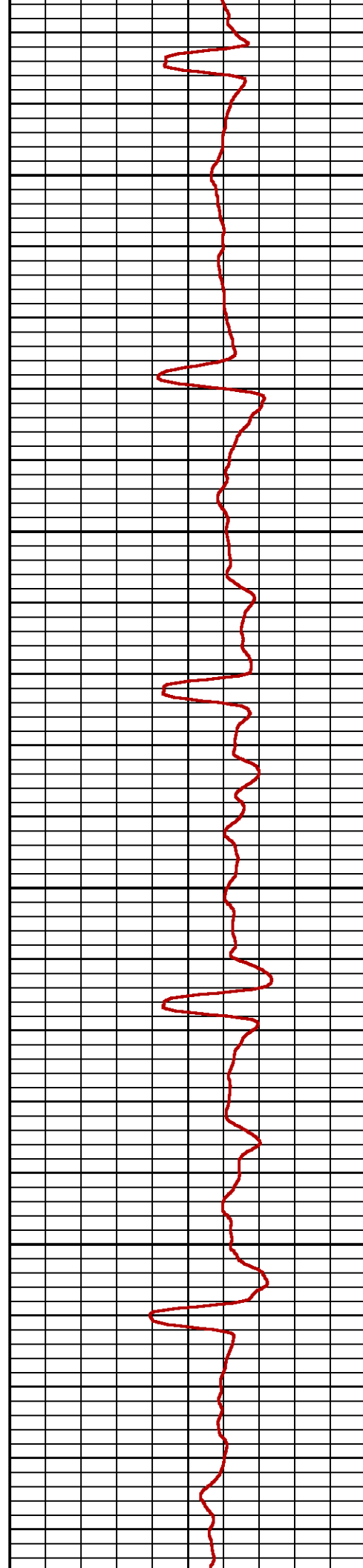
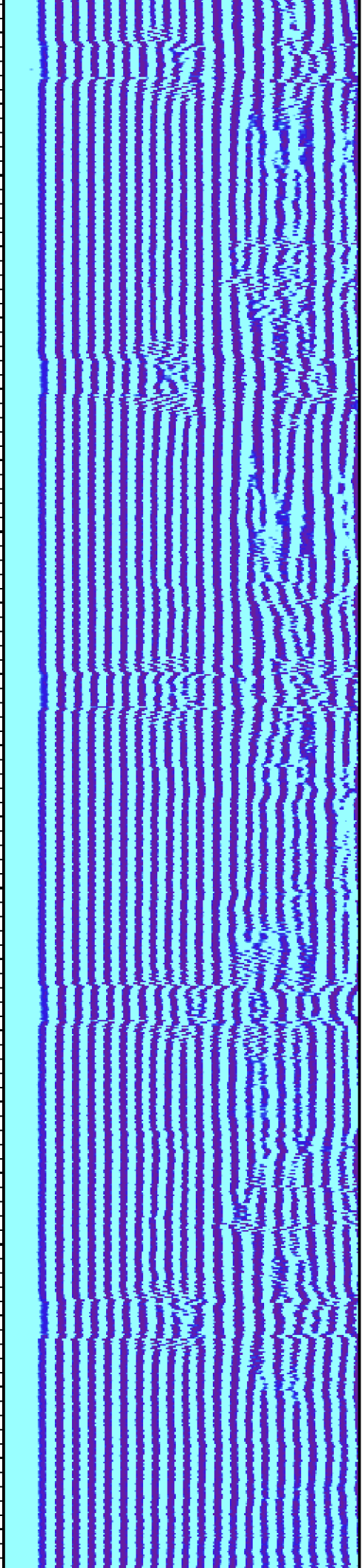
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Created On : Oct 2 10:57:47 2014
Company : WPX ENERGY
Well : FEDERAL SG 33-28
Field : PARACHUTE
File Interval : 15.75 - 6052 Feet
OCT : n012e

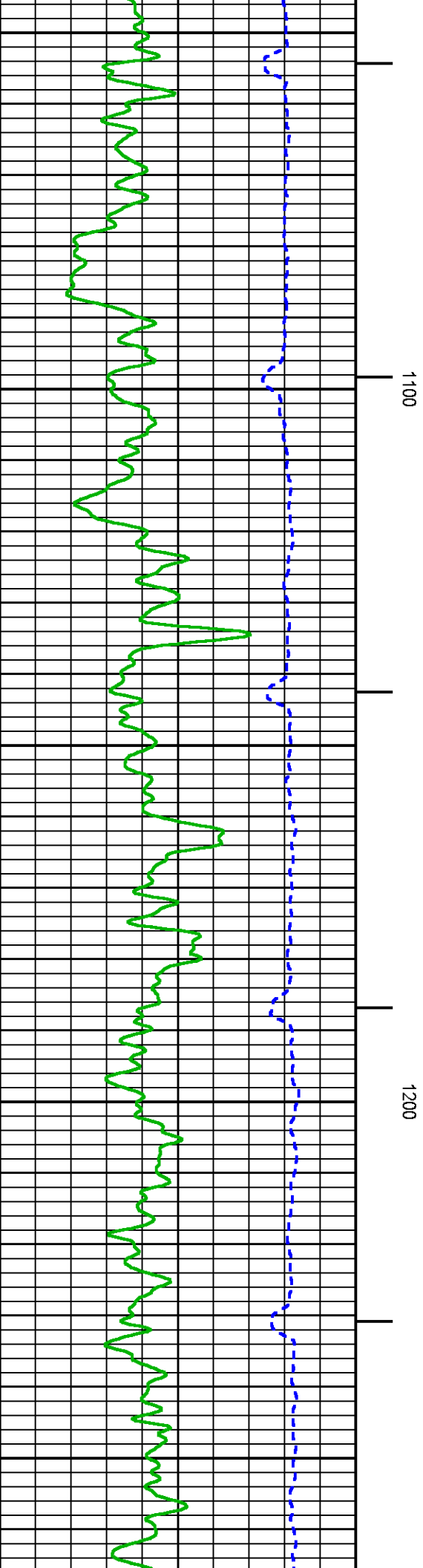
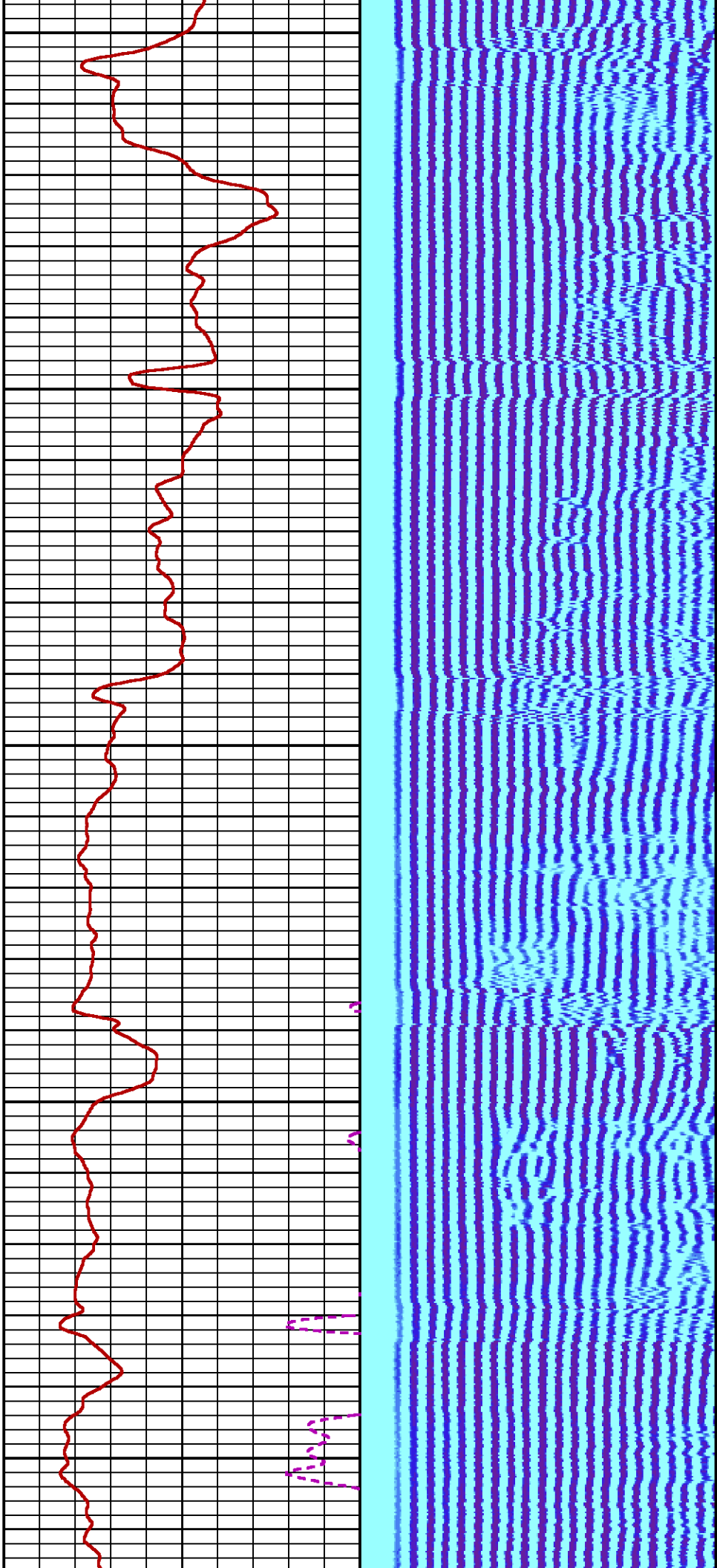


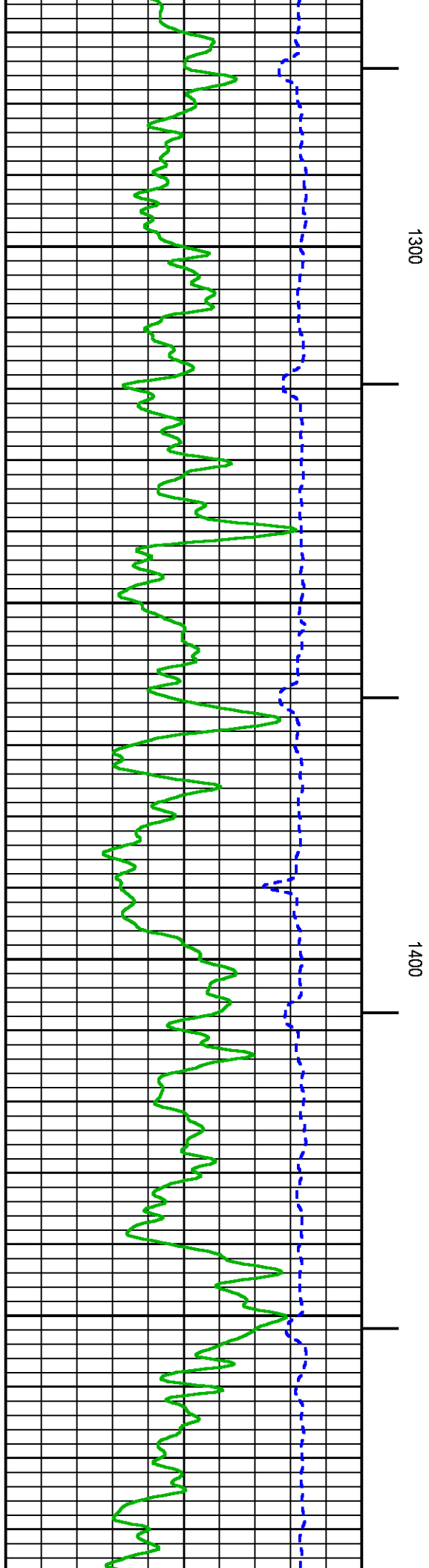
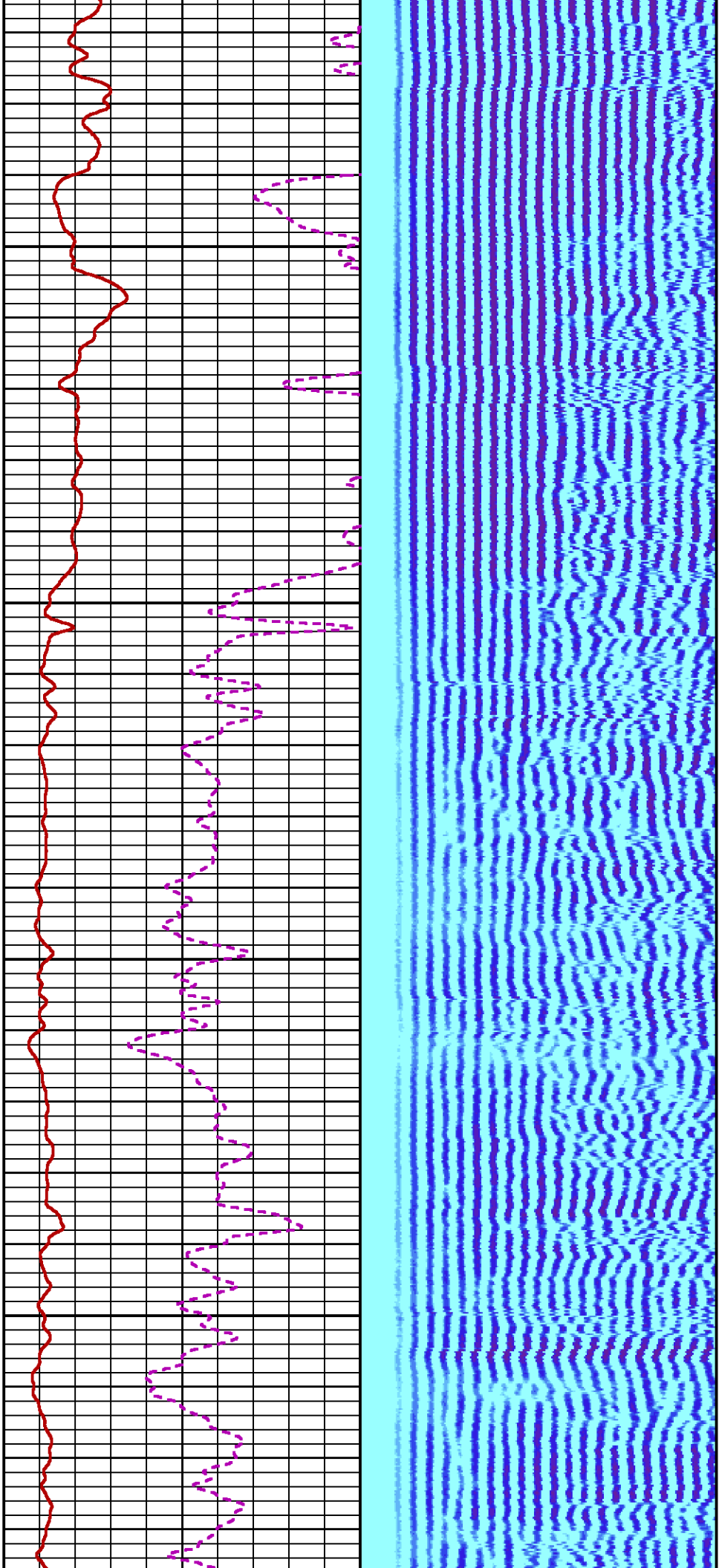


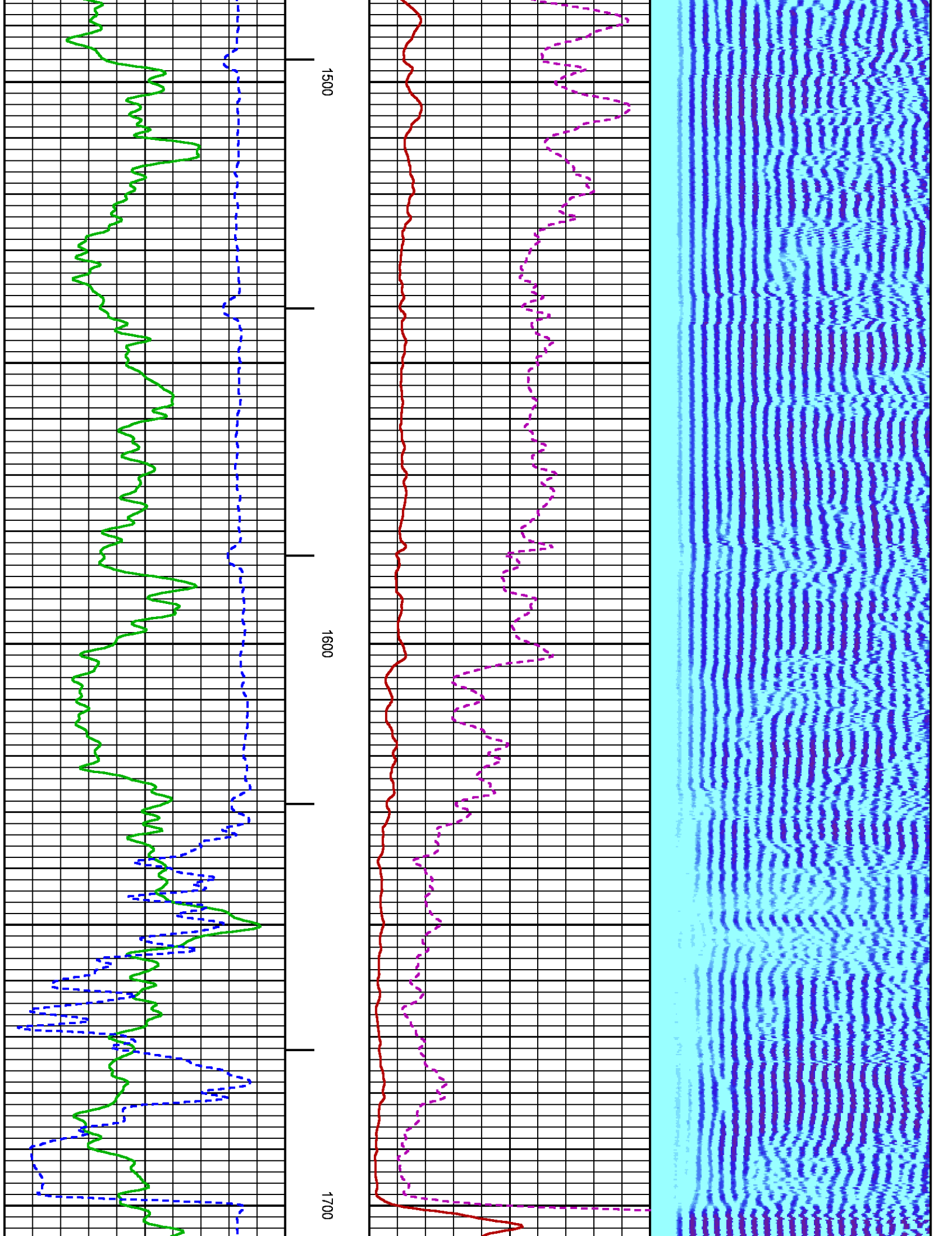


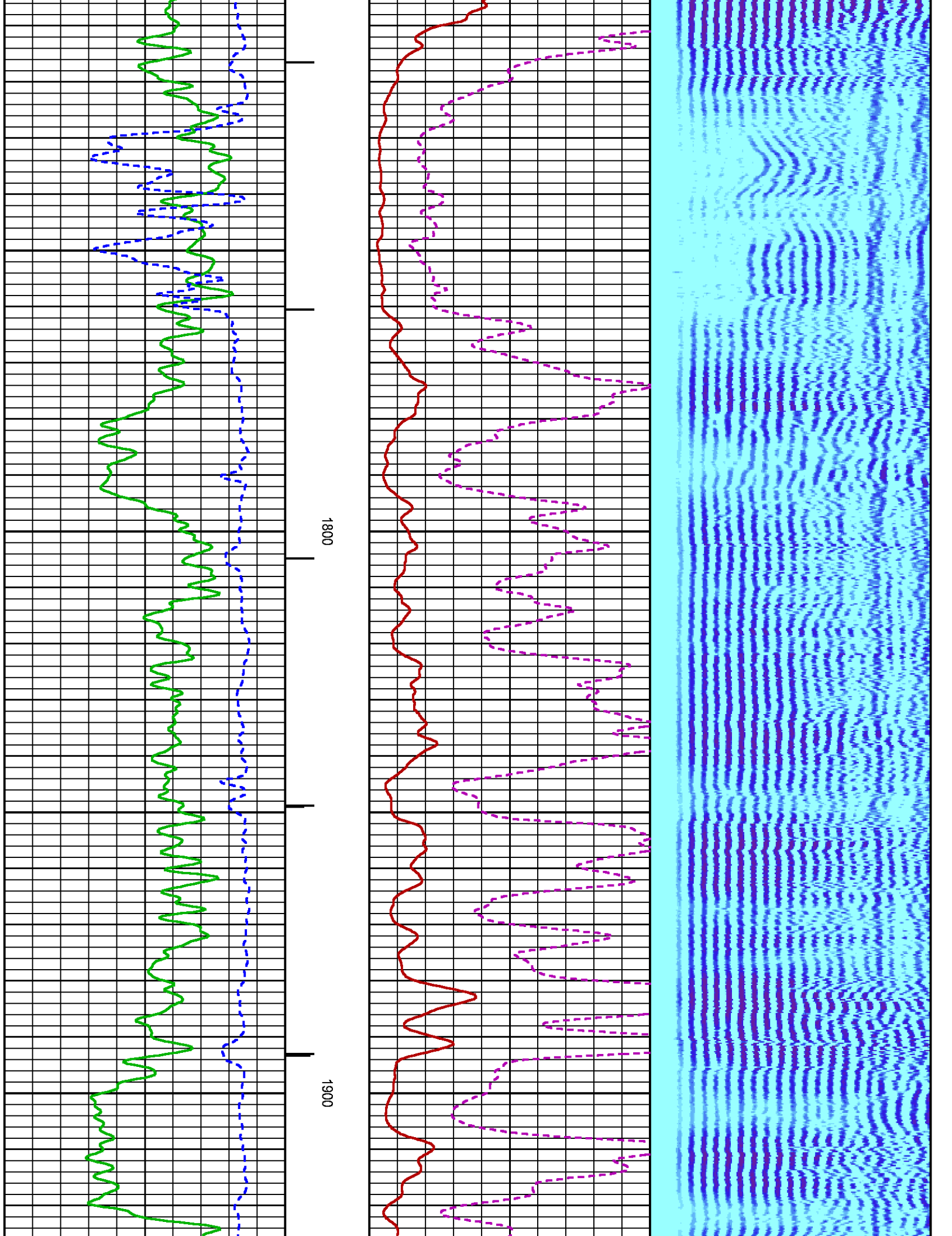


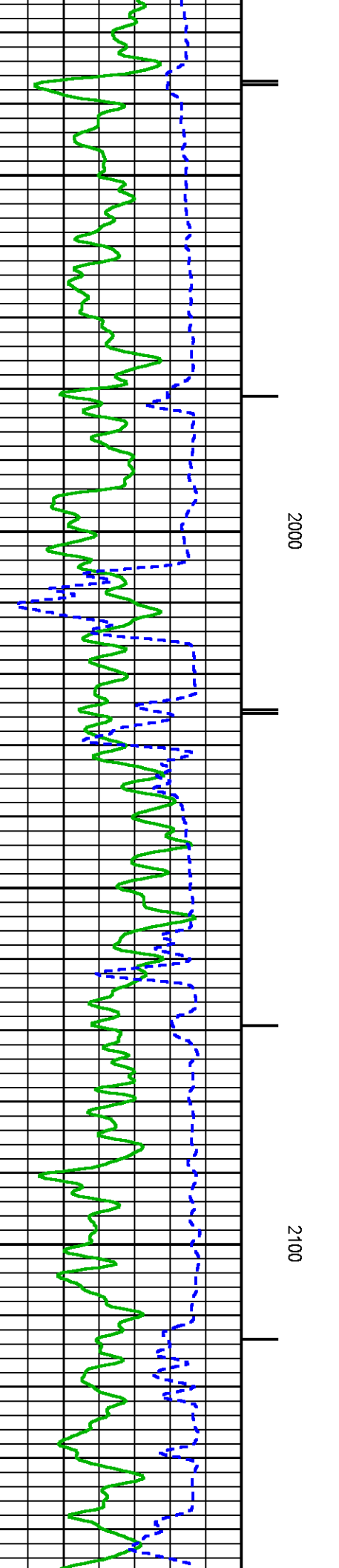
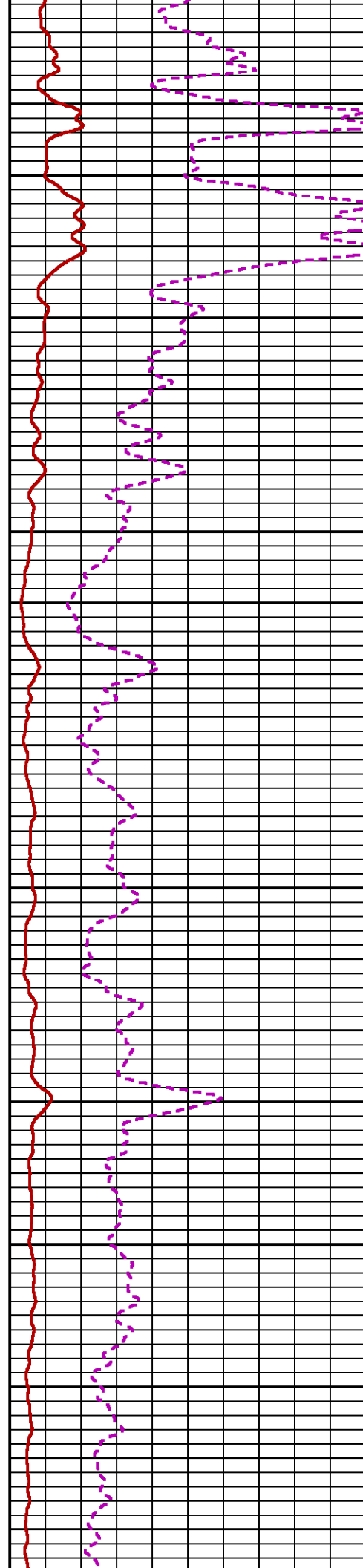
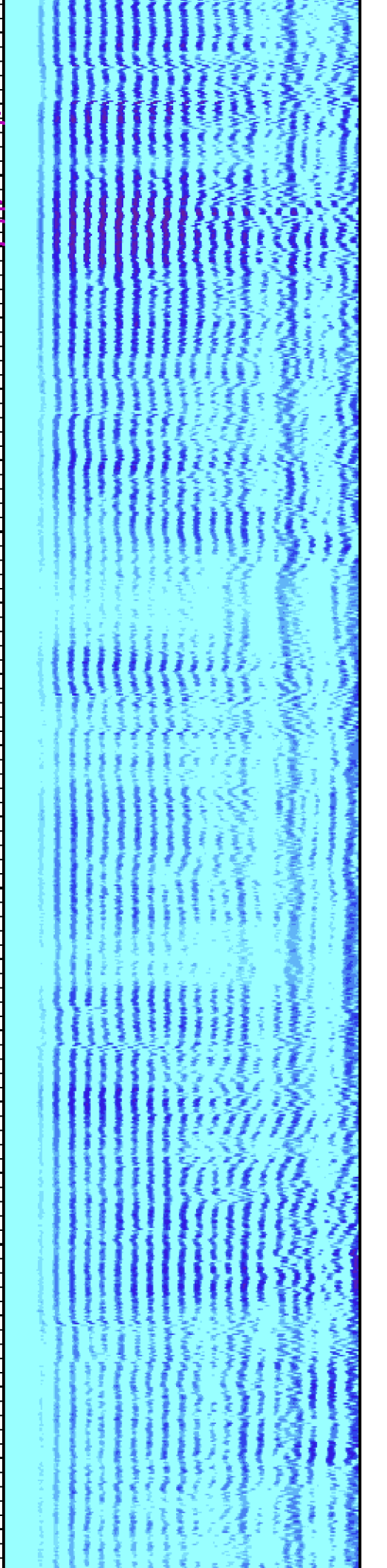


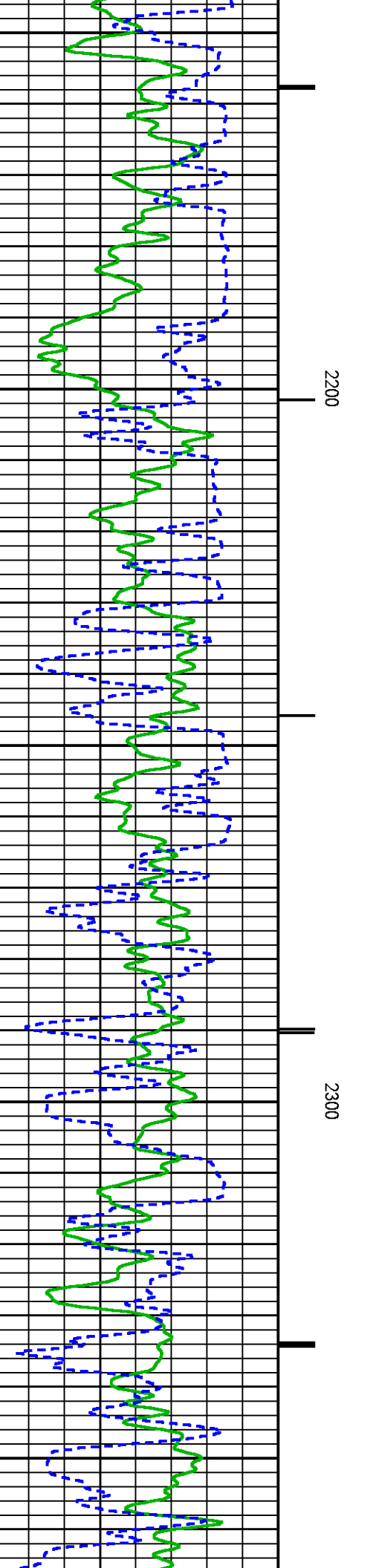
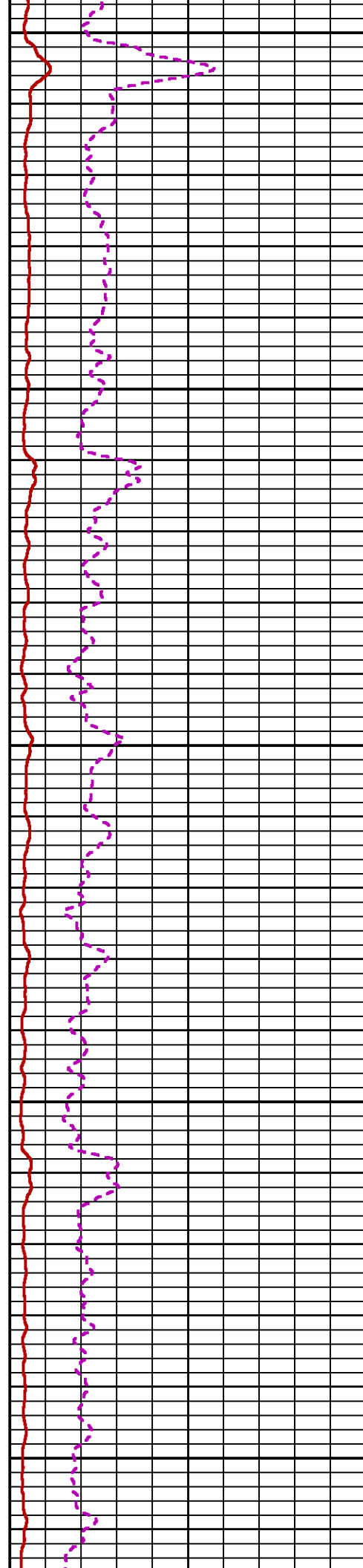
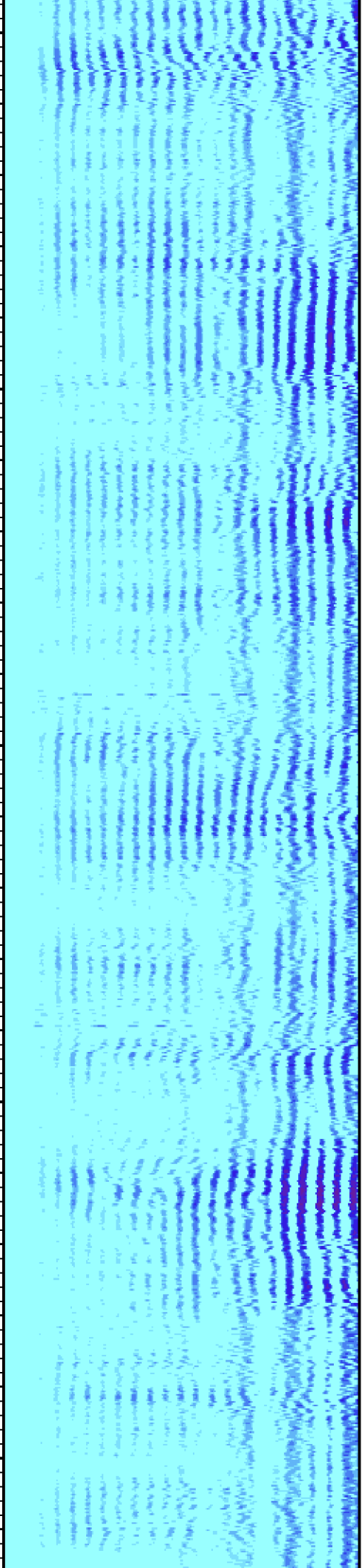


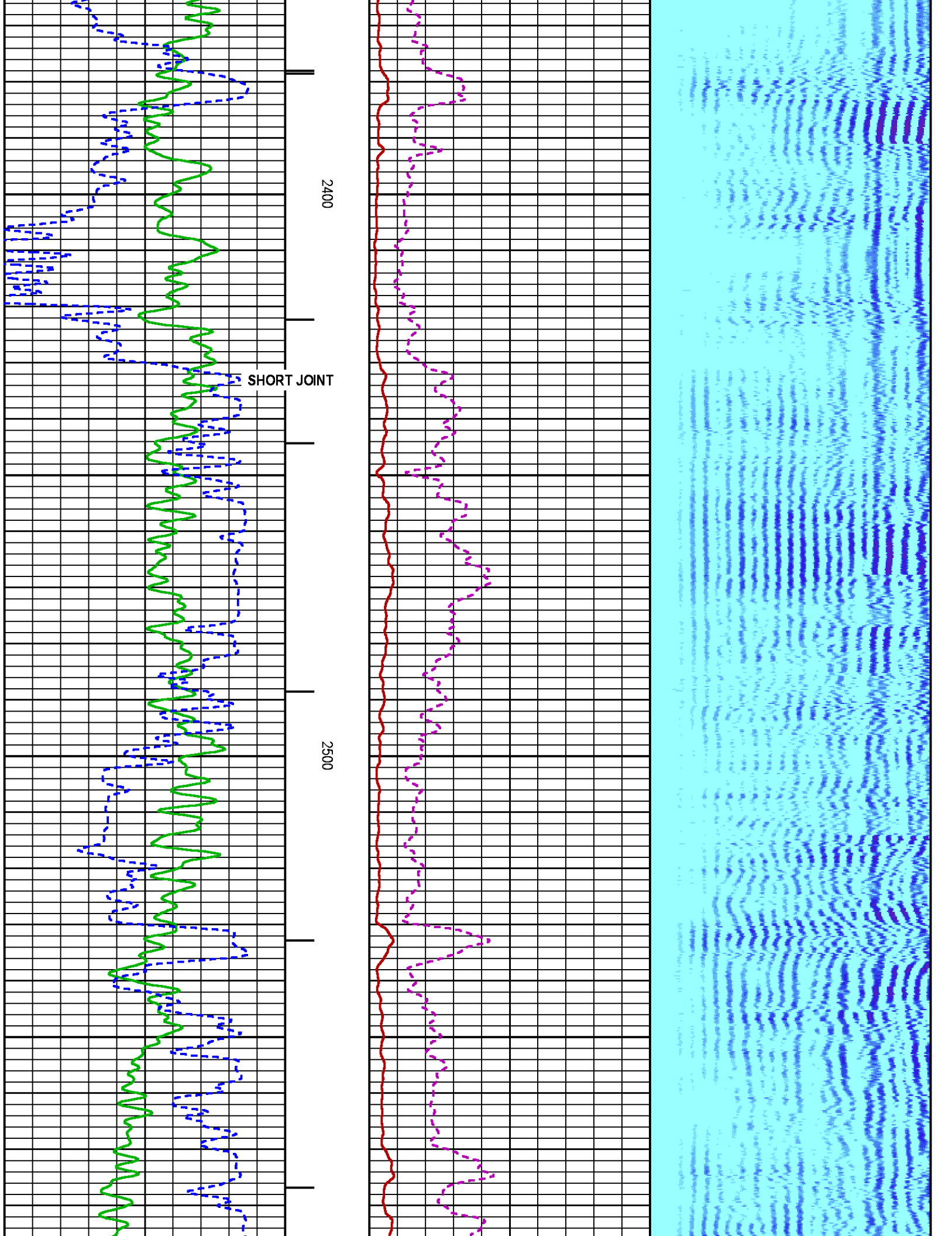


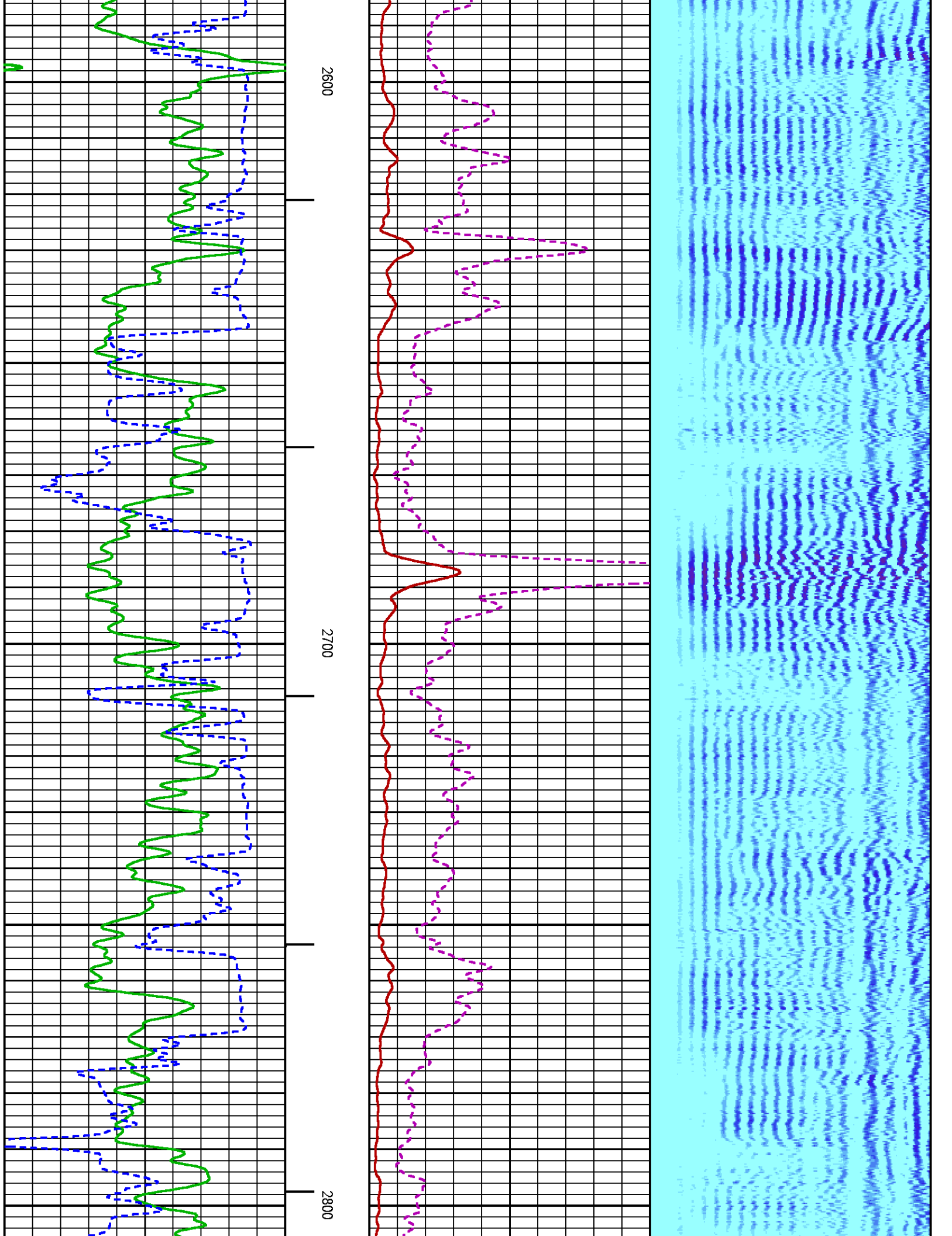


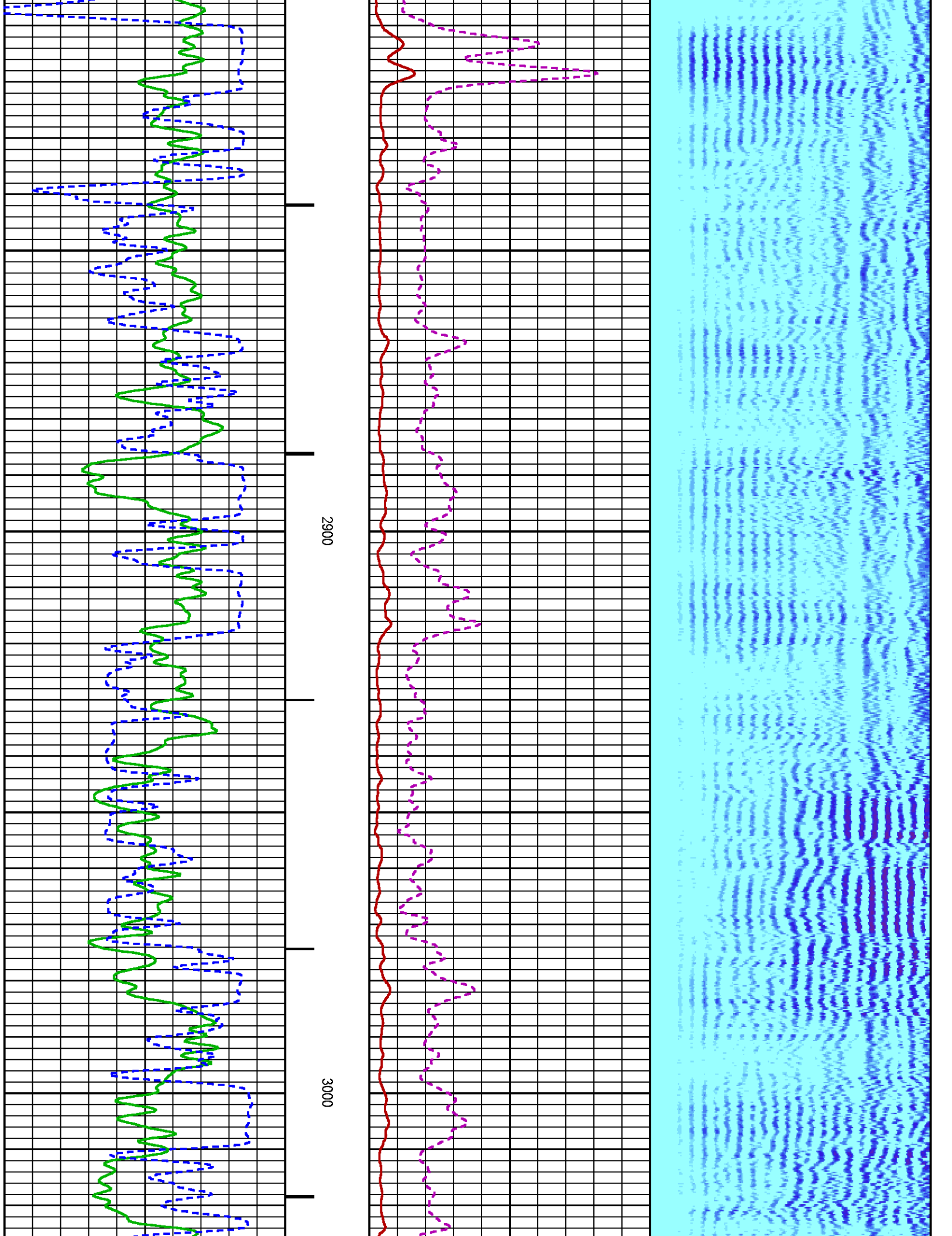


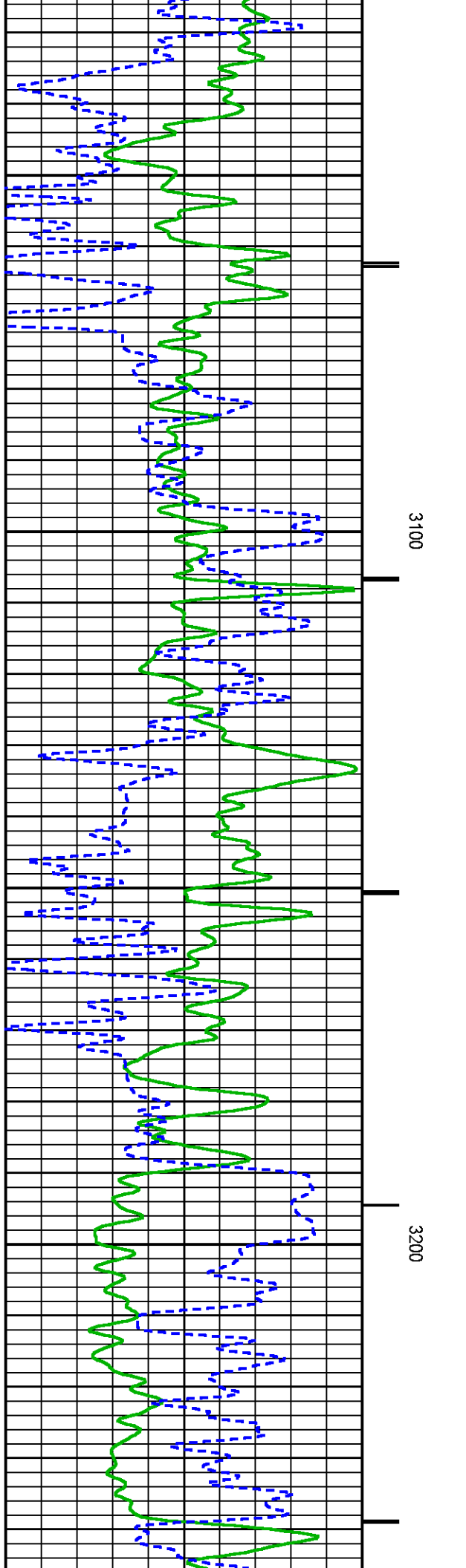
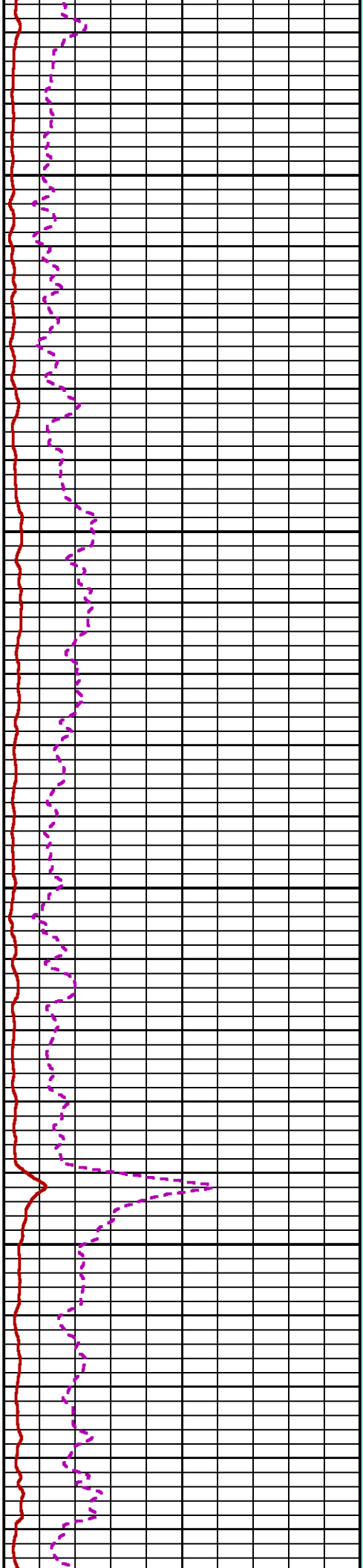
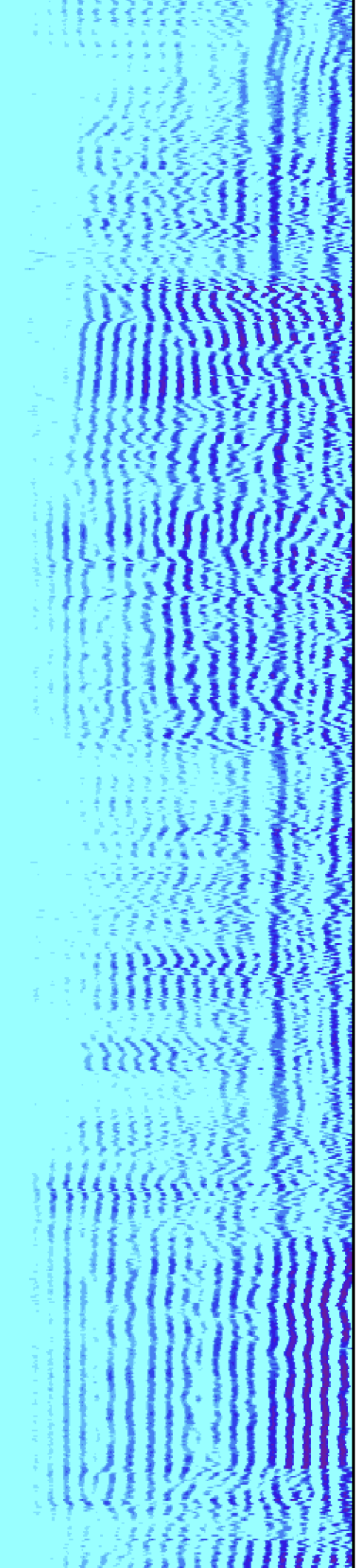


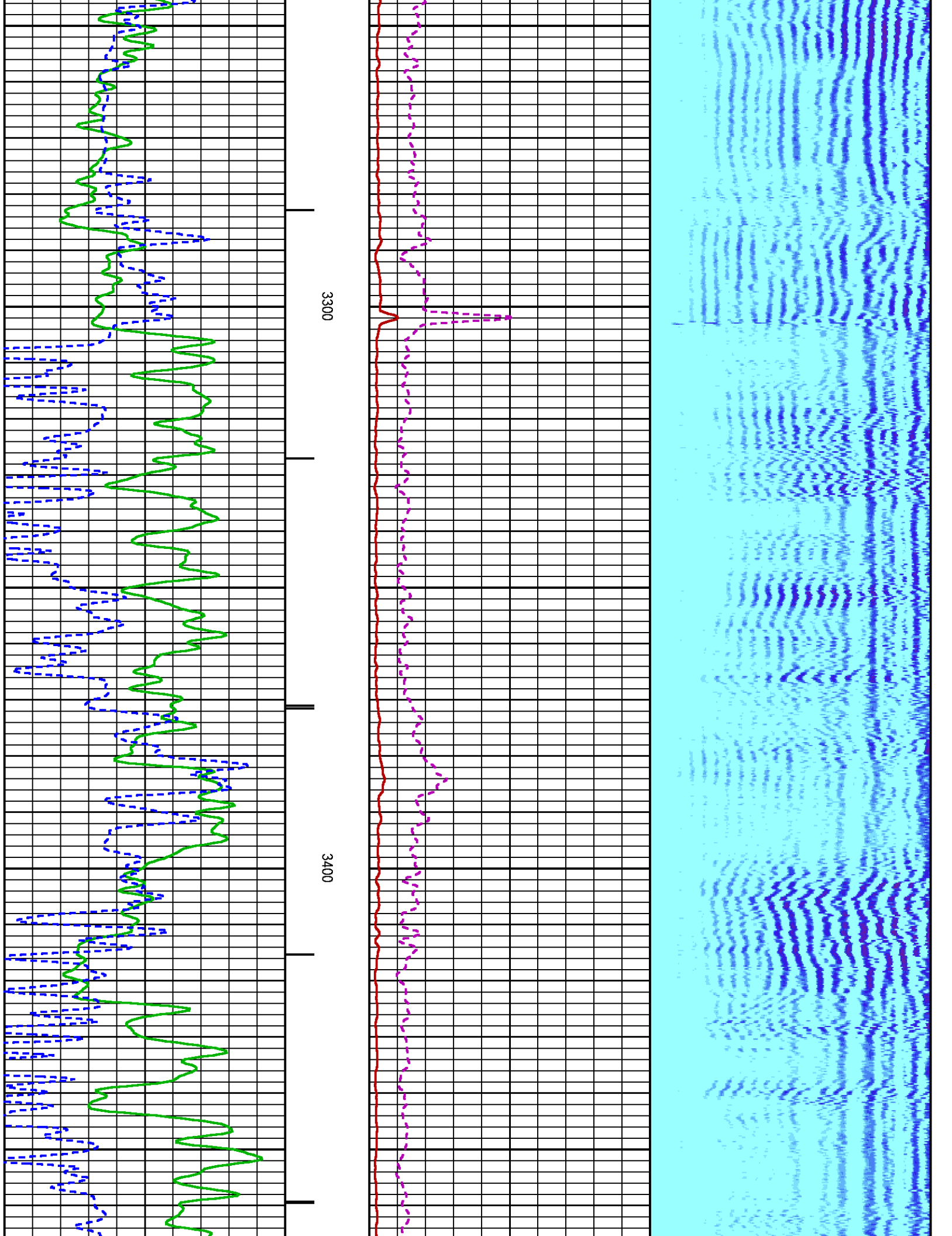


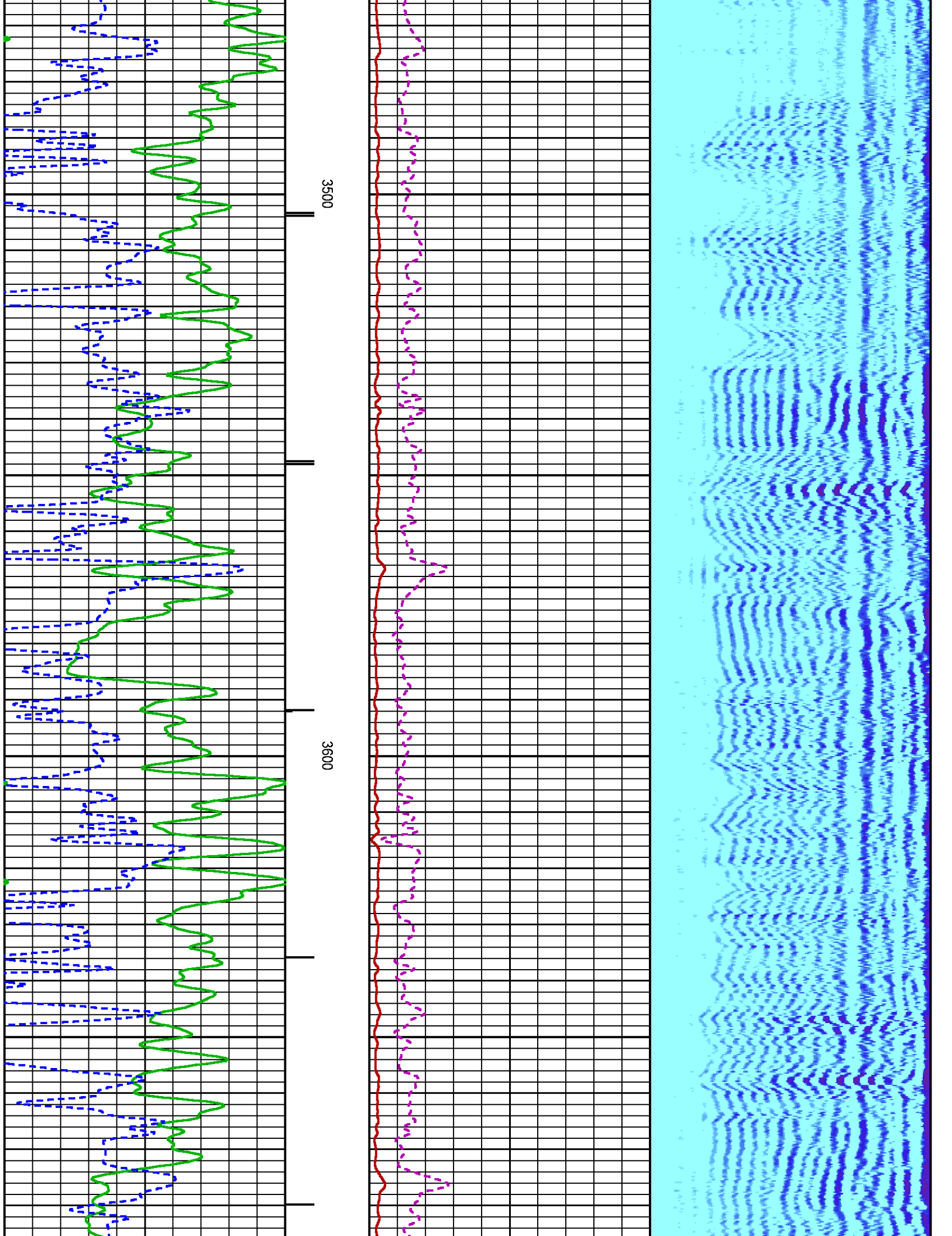


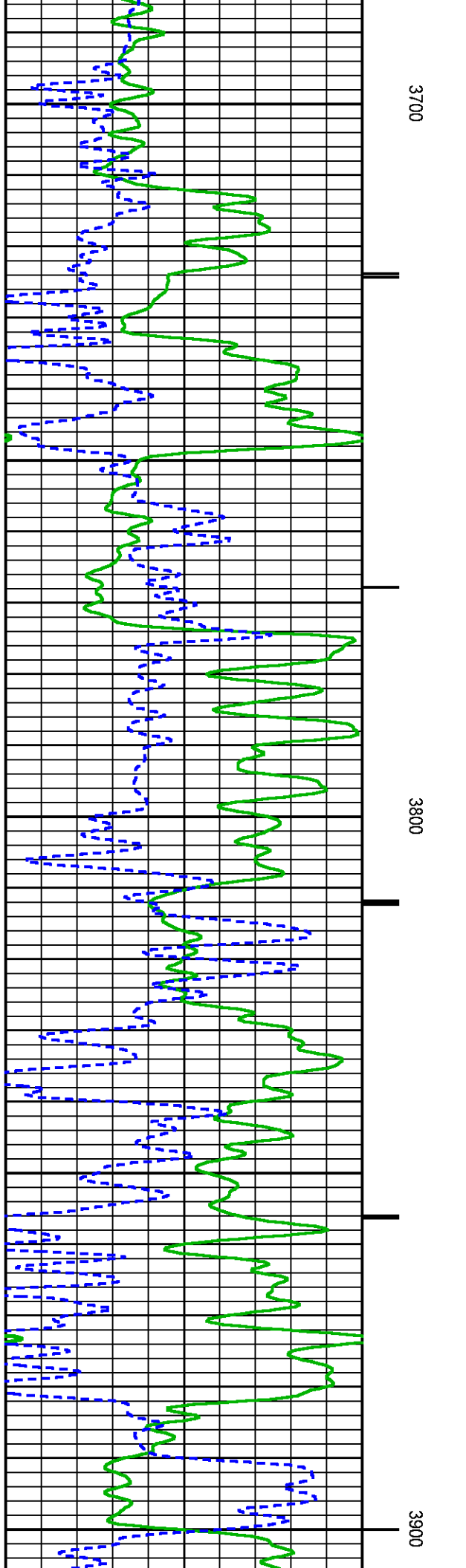
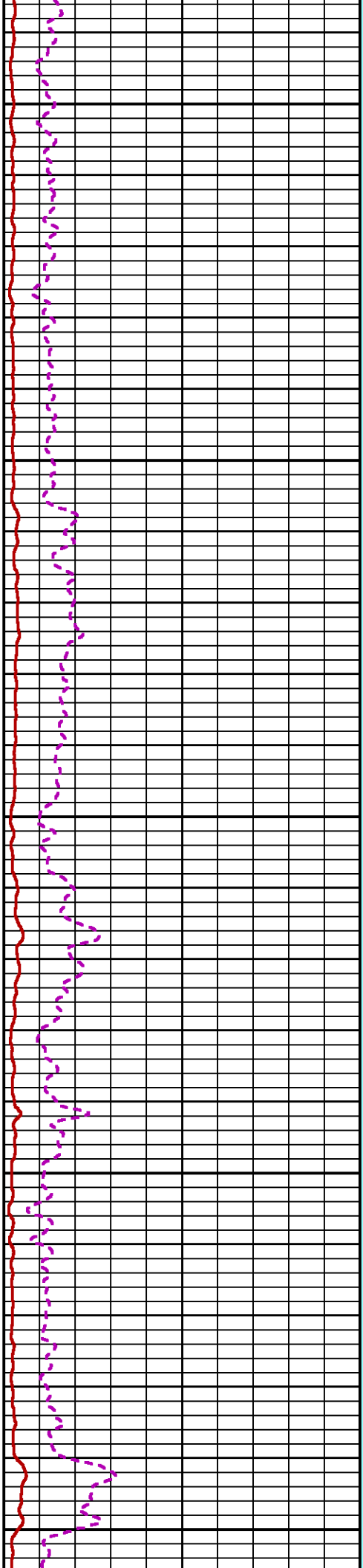
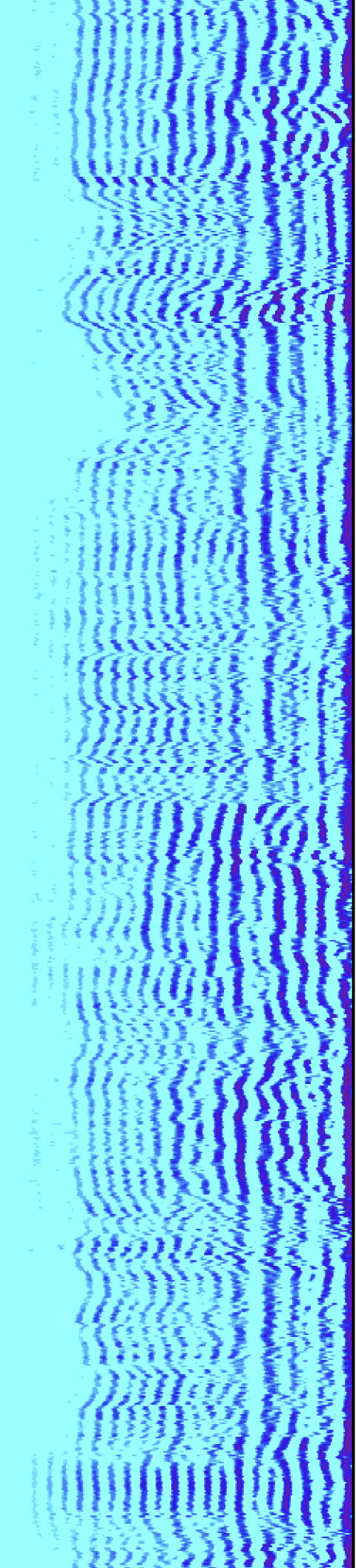


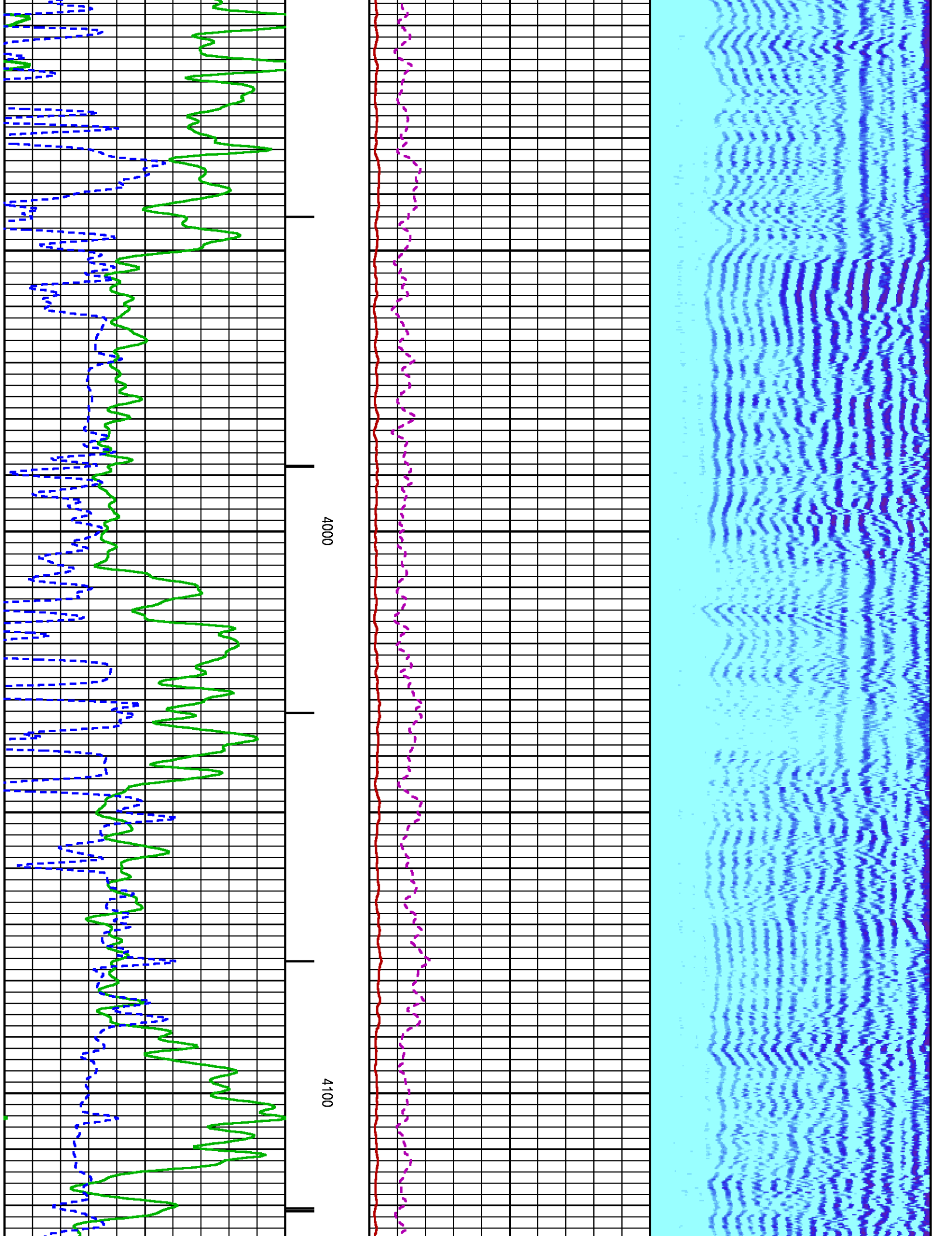


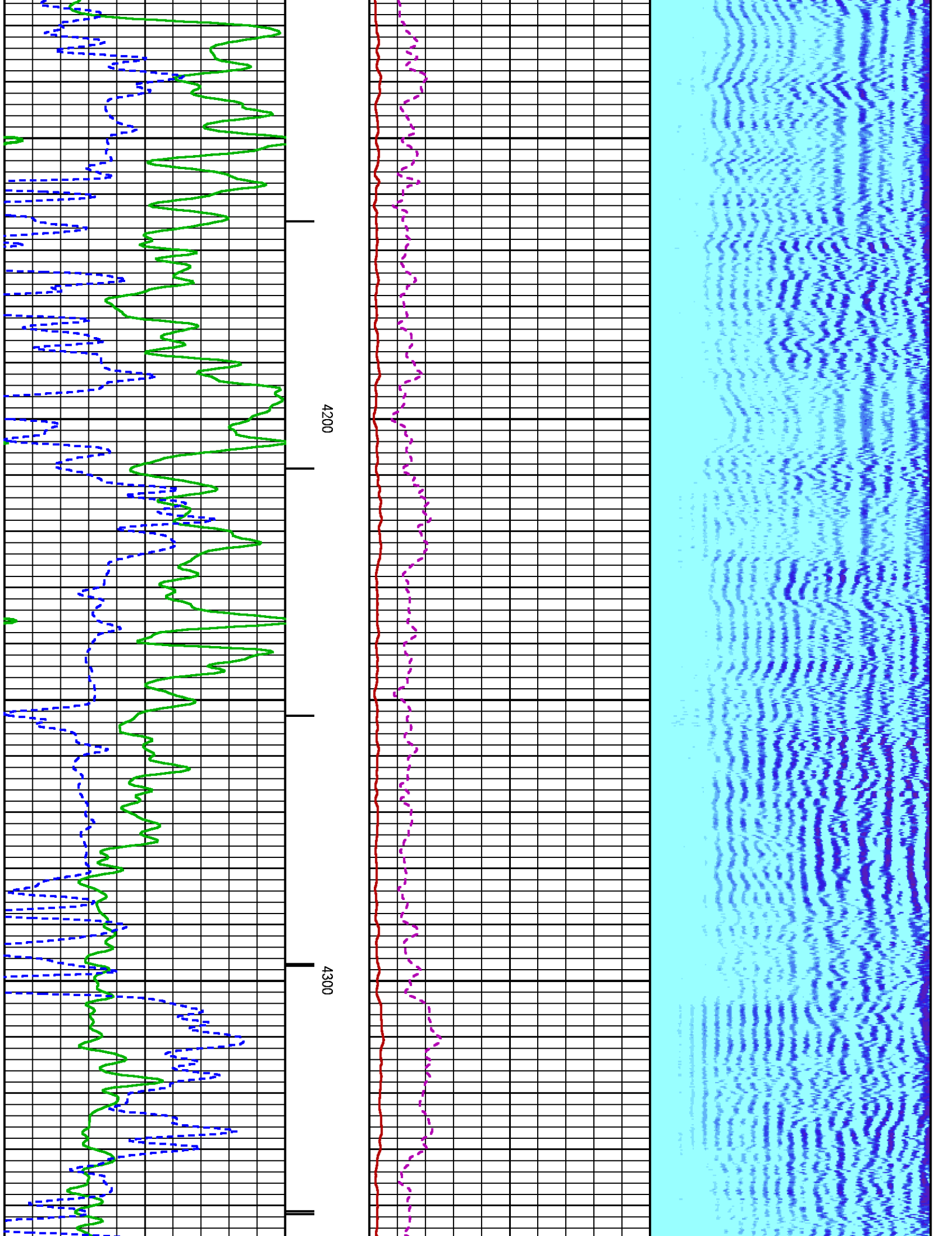


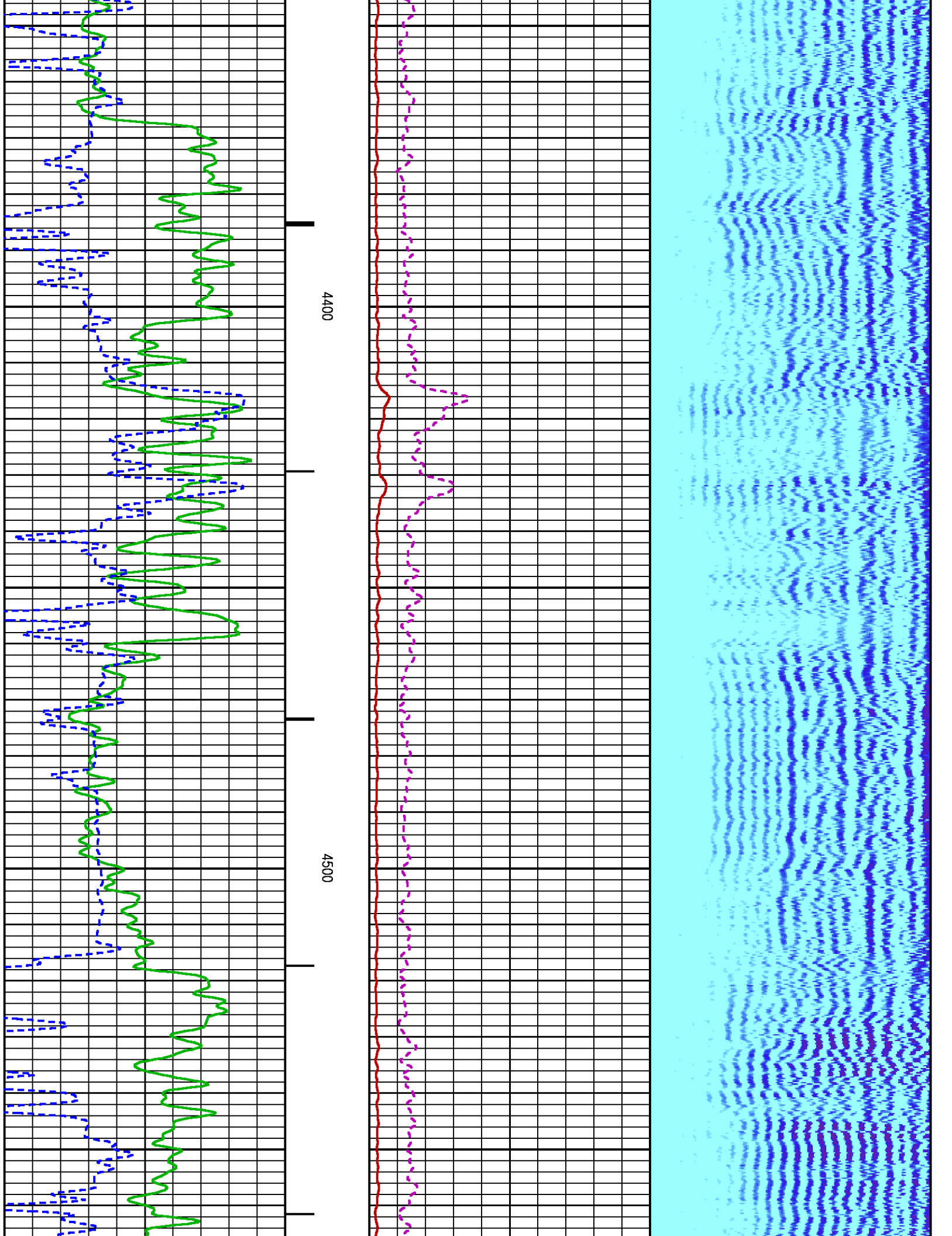


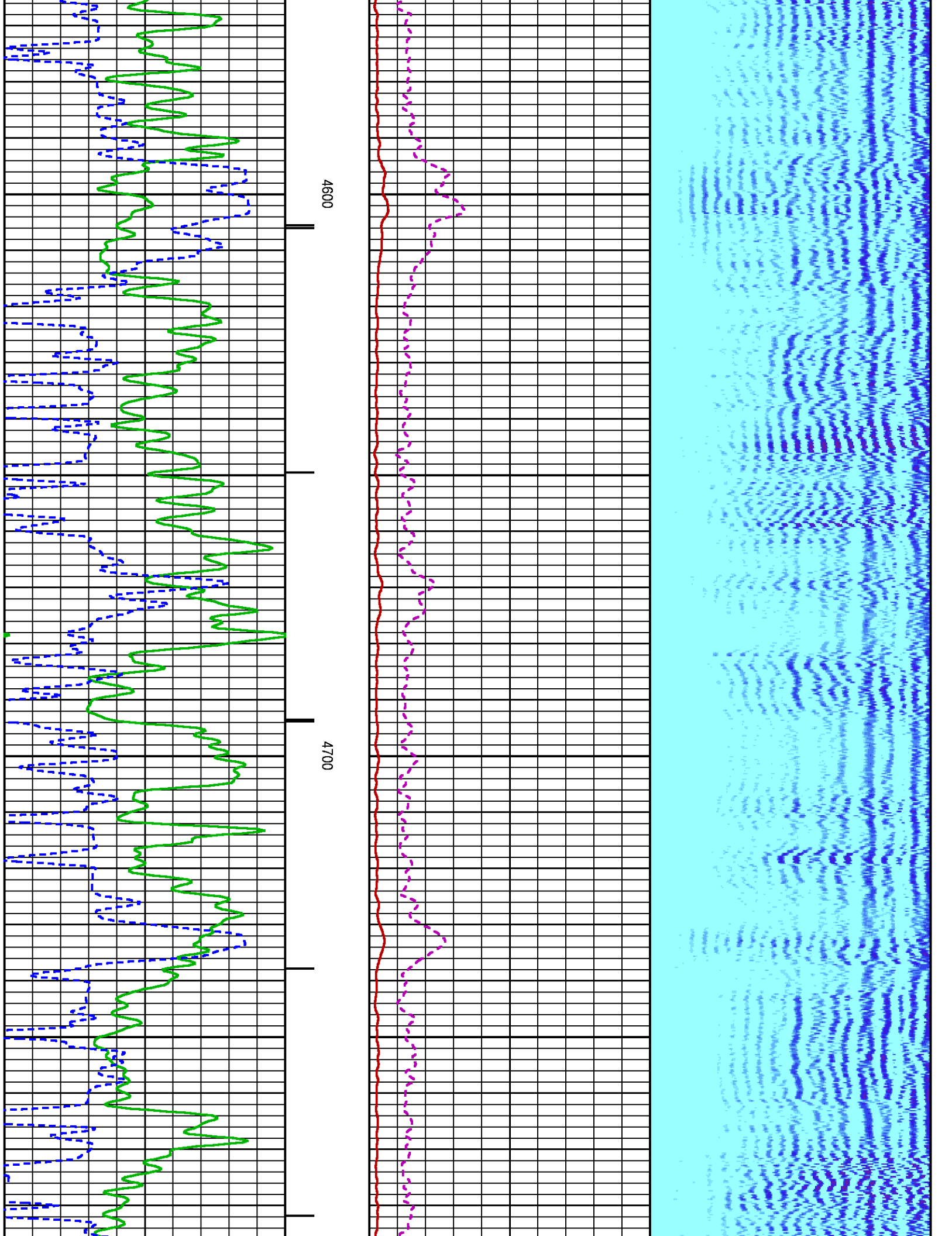


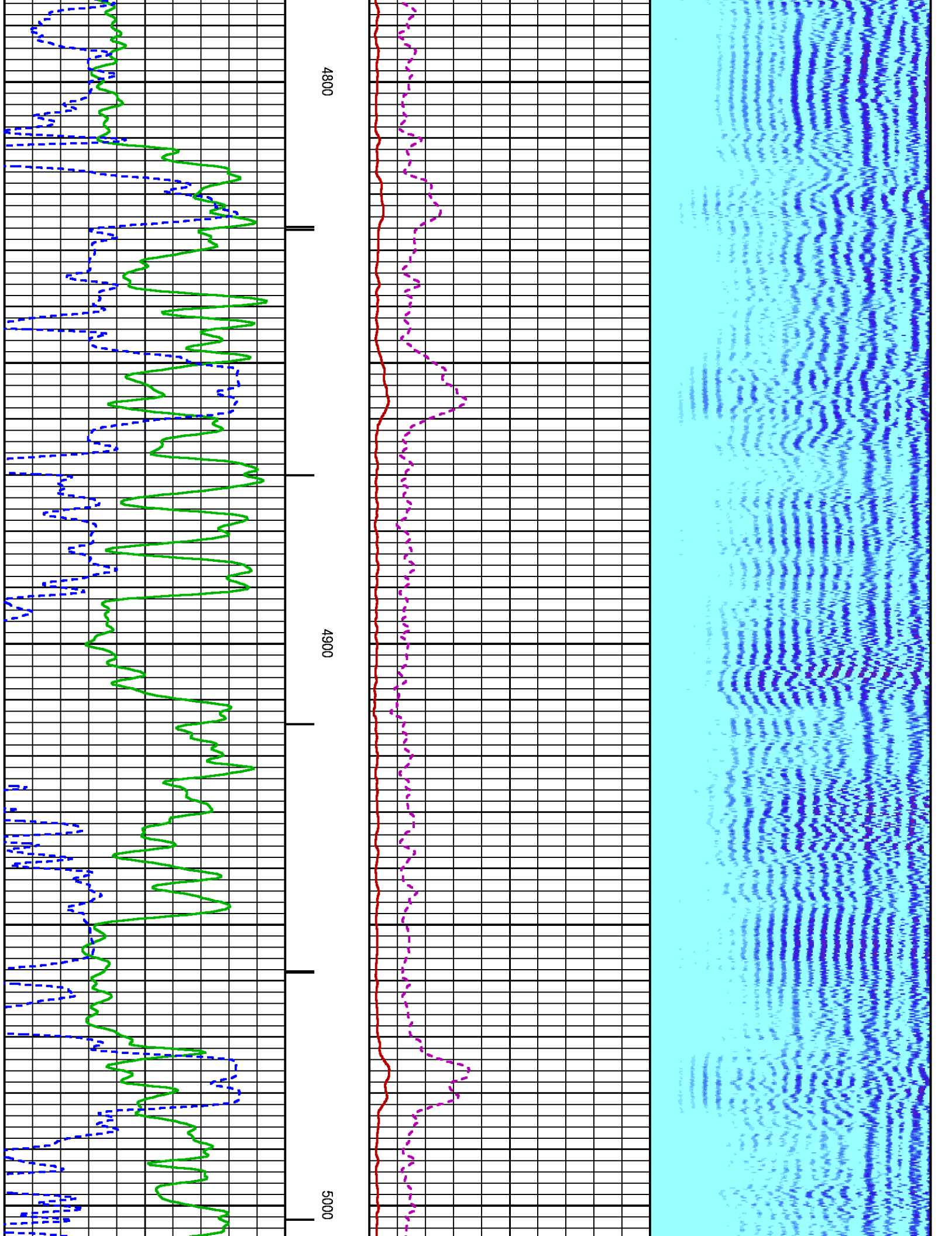


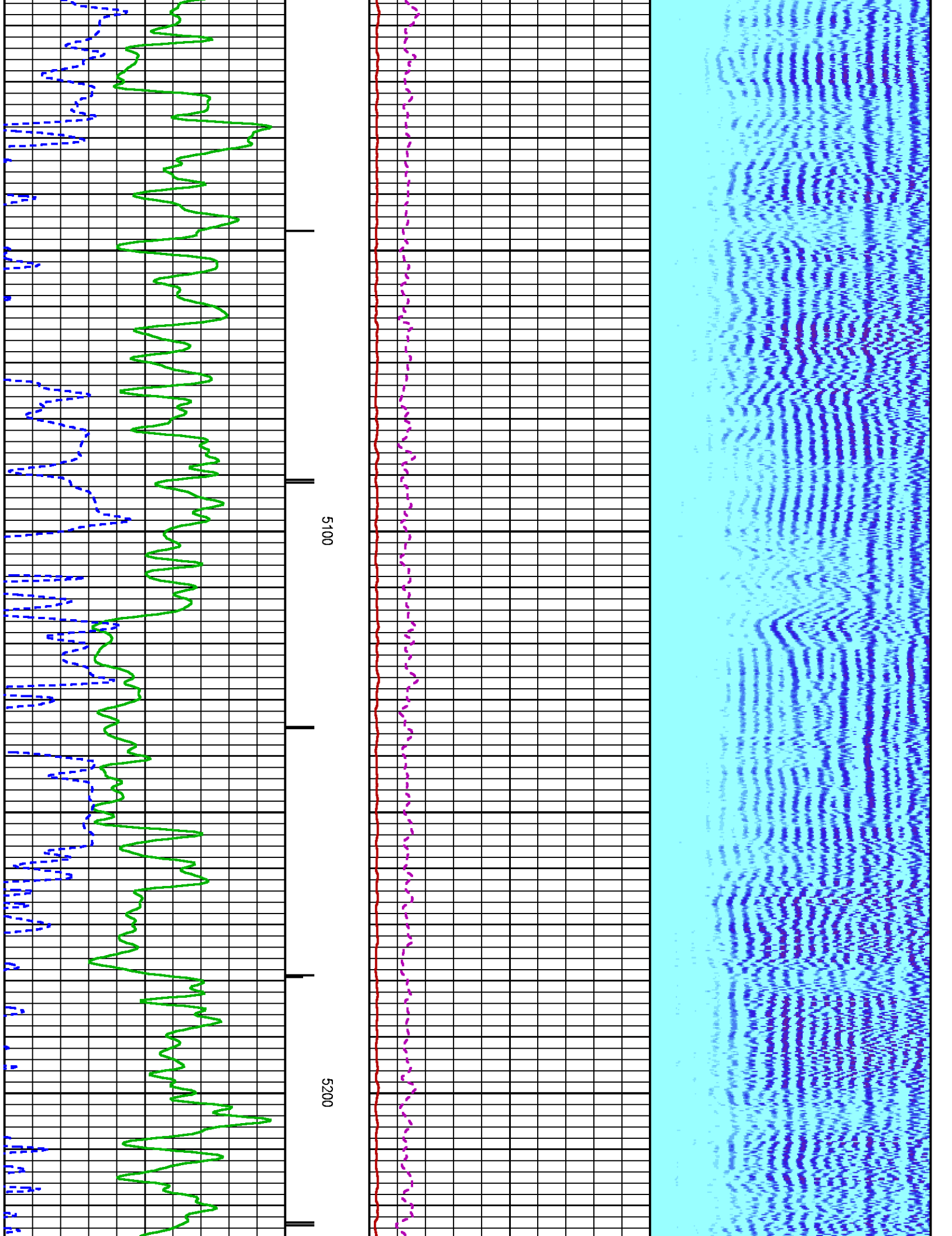


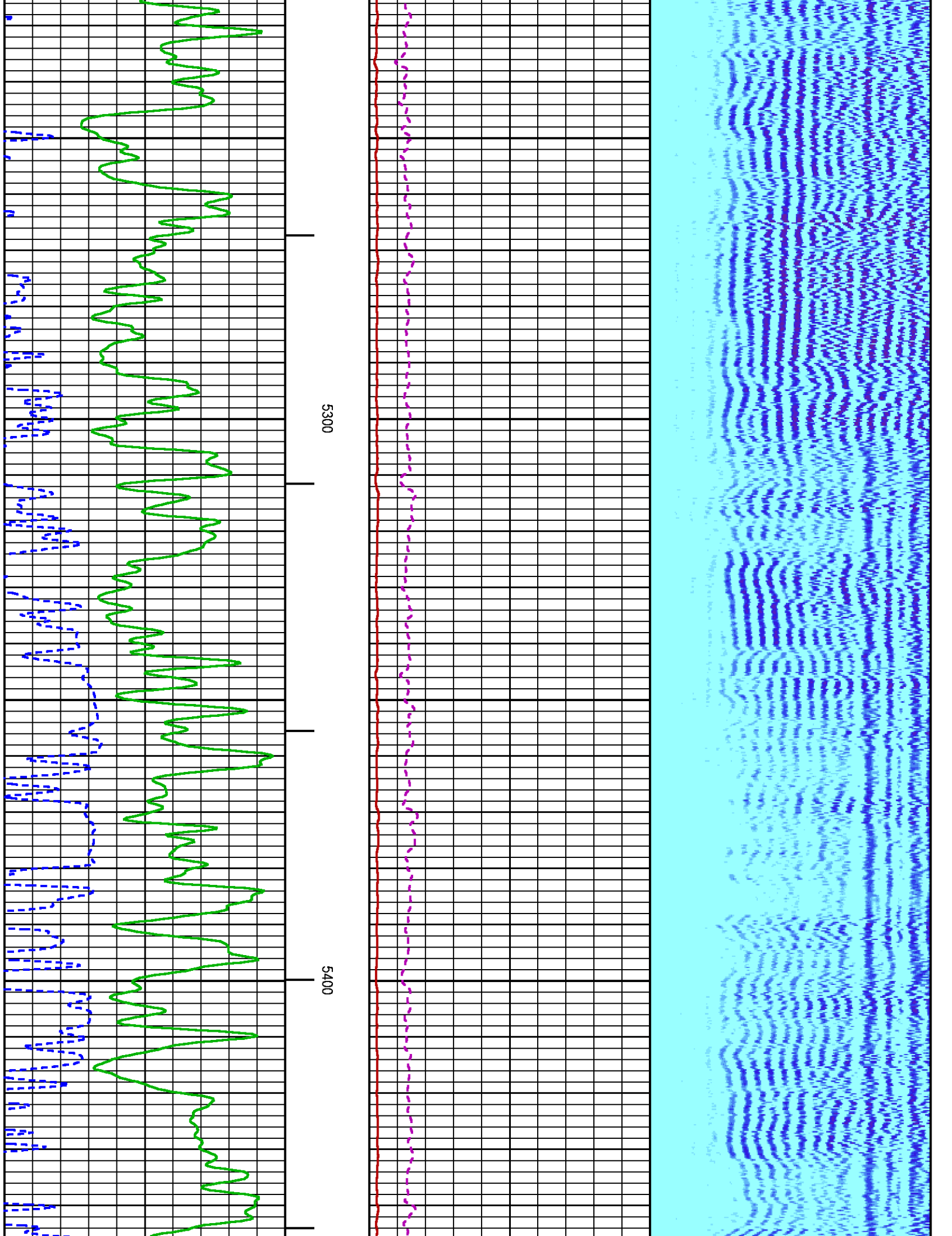


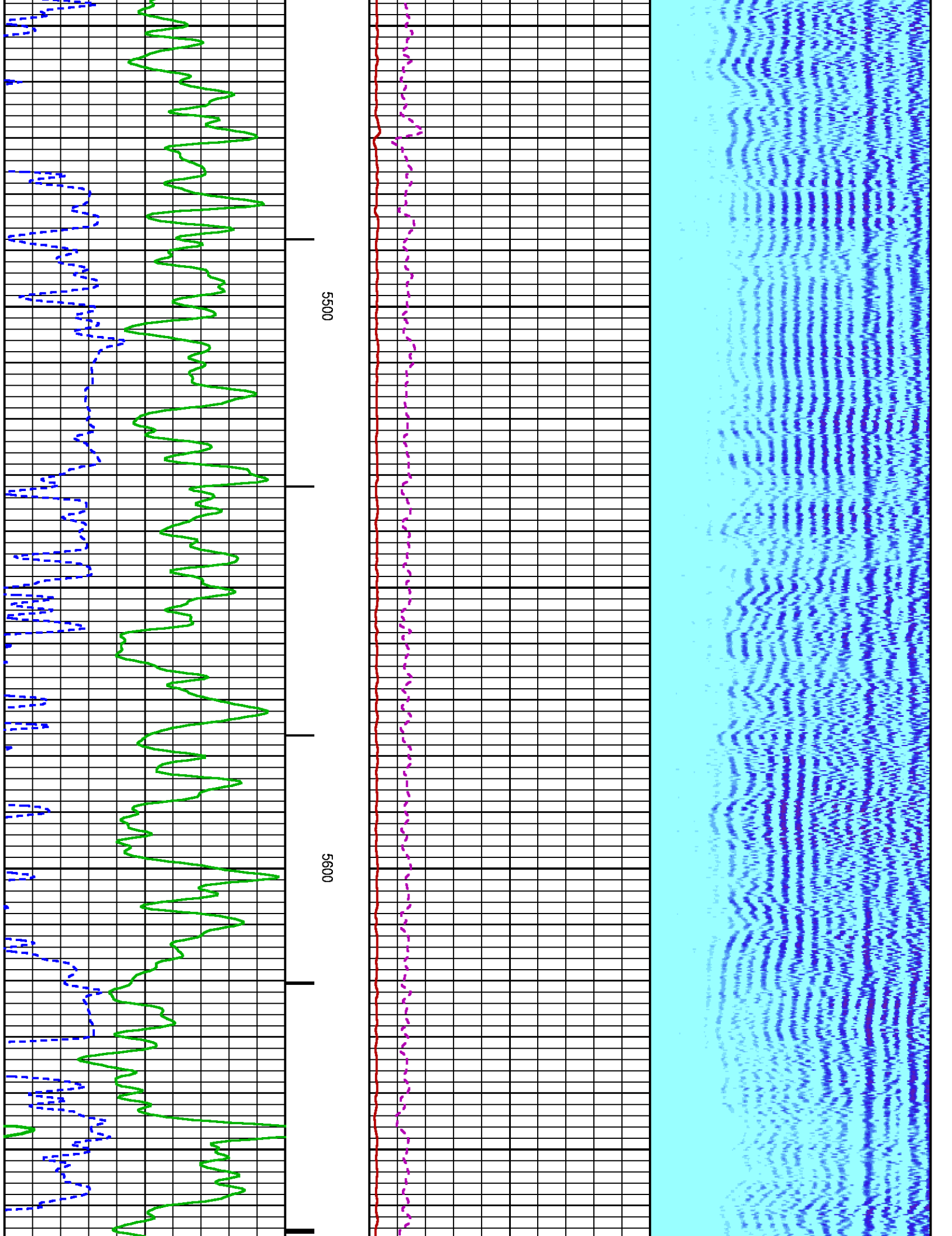


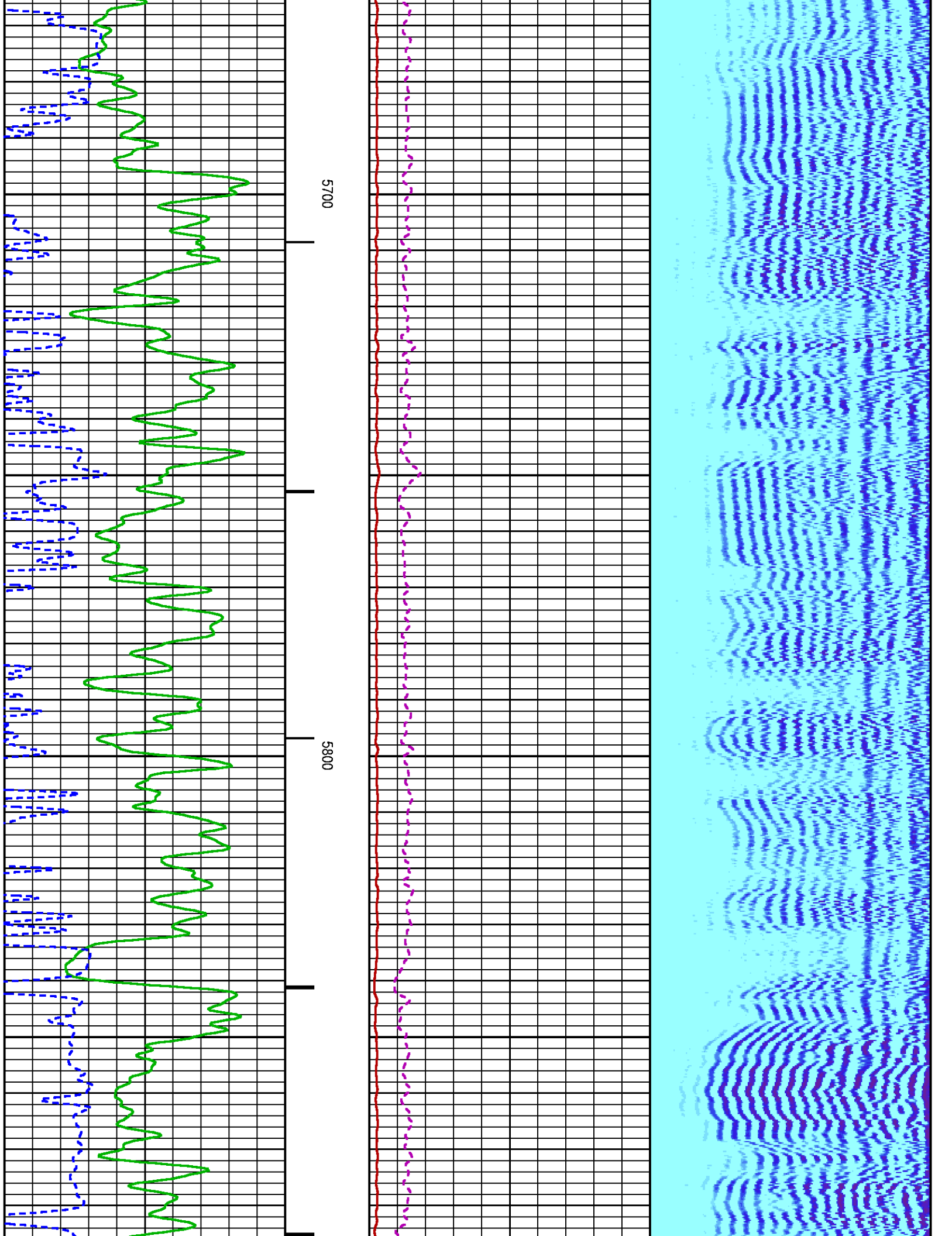


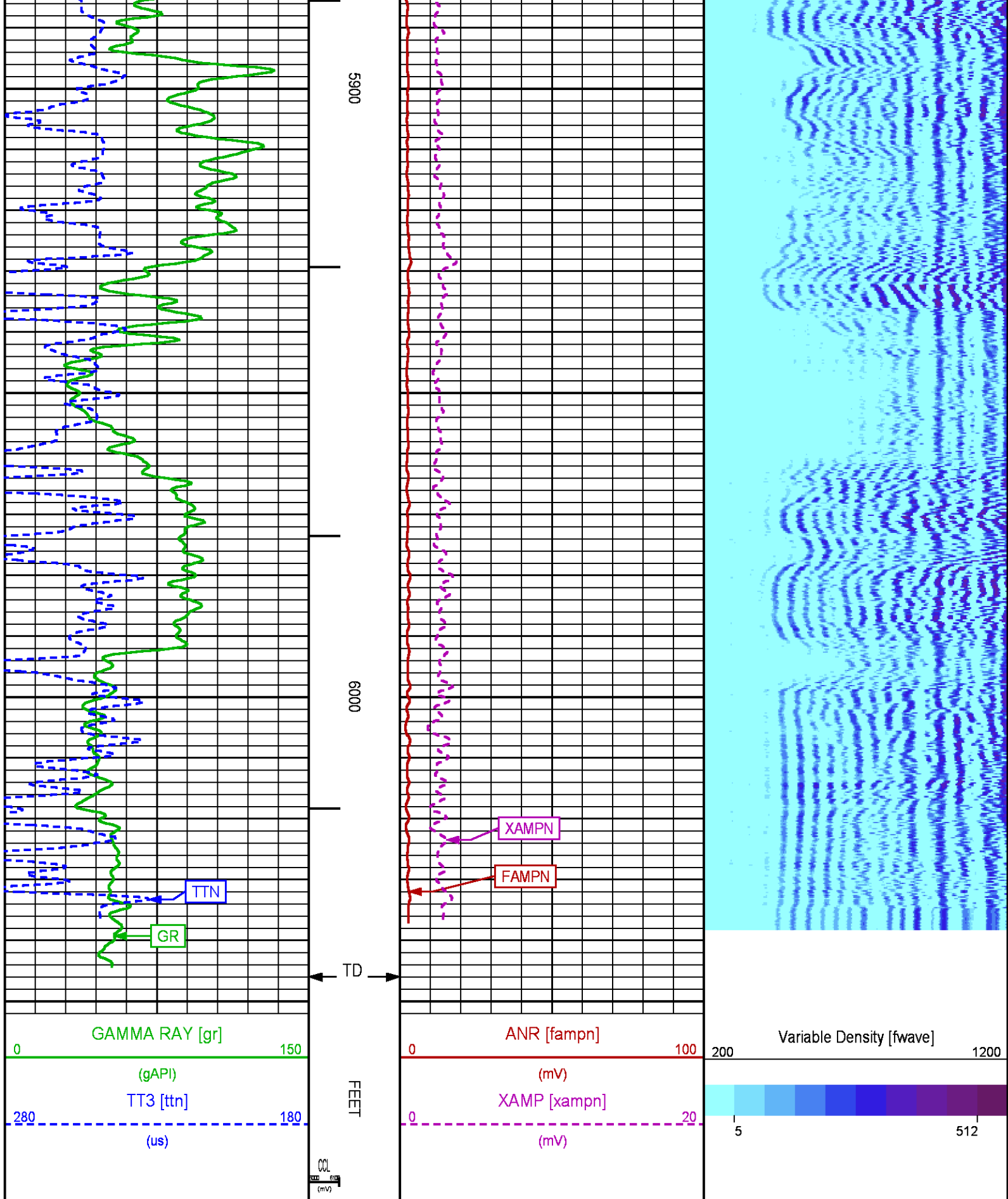












ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
 Updates: 1 Patches: 3

Plotted: Thu Oct 2 12:13:28 2014

PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH91033/n012eR02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 20.750 ft BOTTOM DEPTH: 6043.250 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	"	"
	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*)	-71	us	"	"
	TOOL DELAY (str2*)	-71	us	"	"
	TOOL DELAY (str3*)	-71	us	"	"
	TOOL DELAY (str4*)	-71	us	"	"
	TOOL DELAY (str5*)	-71	us	"	"
	TOOL DELAY (str6*)	-71	us	"	"
	TOOL DELAY (str7*)	-71	us	"	"
	TOOL DELAY (str8*)	-71	us	"	"
	TOOL DELAY (strn*)	-71	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	81	mV	TOP	BOTTOM
	FREE AMP REC 2	81	mV	"	"
	FREE AMP REC 3	81	mV	"	"
	FREE AMP REC 4	81	mV	"	"
	FREE AMP REC 5	81	mV	"	"
	FREE AMP REC 6	81	mV	"	"
	FREE AMP REC 7	81	mV	"	"
	FREE AMP REC 8	81	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"

CURVE DESCRIPTION REPORT

CURVE NAME CREATION DATE

CURVE DESCRIPTION

F1:AR1	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Oct 2 10:57:47 2014	CASING COLLAR LOCATOR
F1:FAMPN	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 2 10:57:47 2014	FAR WAVE FORM
F1:GR	Oct 2 10:57:47 2014	GAMMA RAY
F1:PBMAP	Oct 2 10:57:47 2014	PERCENT BOND CEMENT MAP
F1:TTN	Oct 2 10:57:47 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 2 10:57:47 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET

CURVE OFFSET (ft)

CURVE OFFSET (ft)

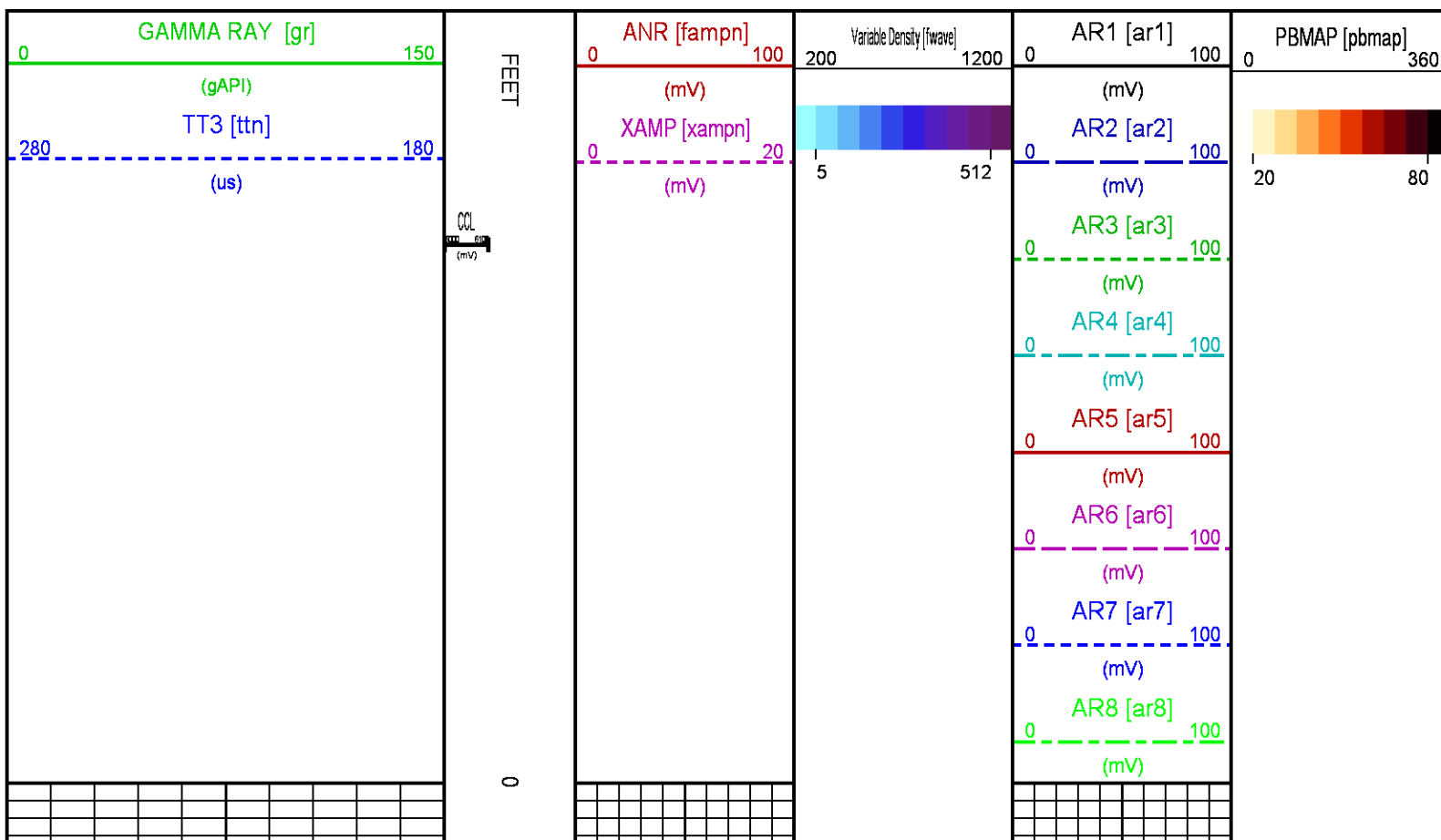
CURVE OFFSET (ft)

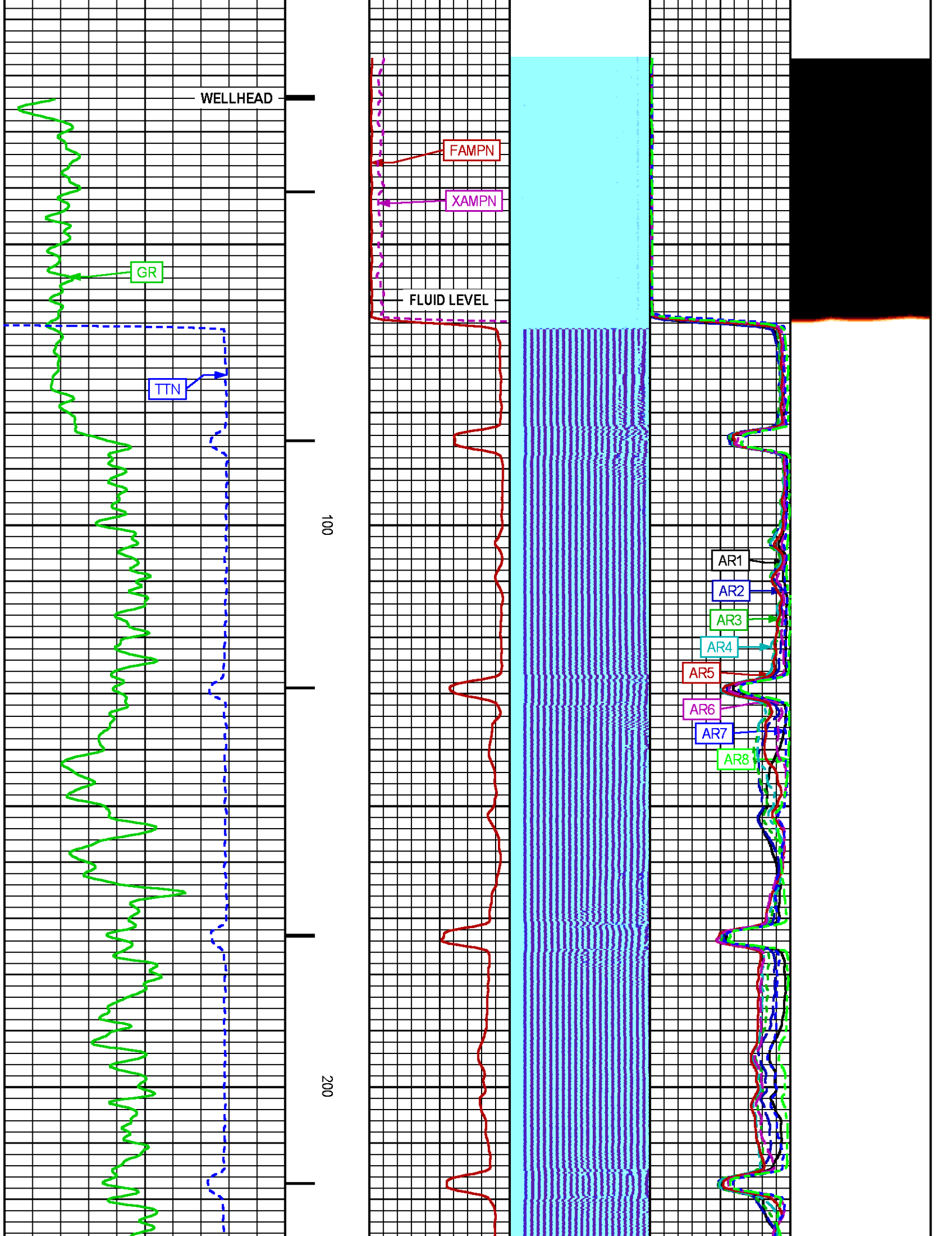
CURVE OFFSET (ft)

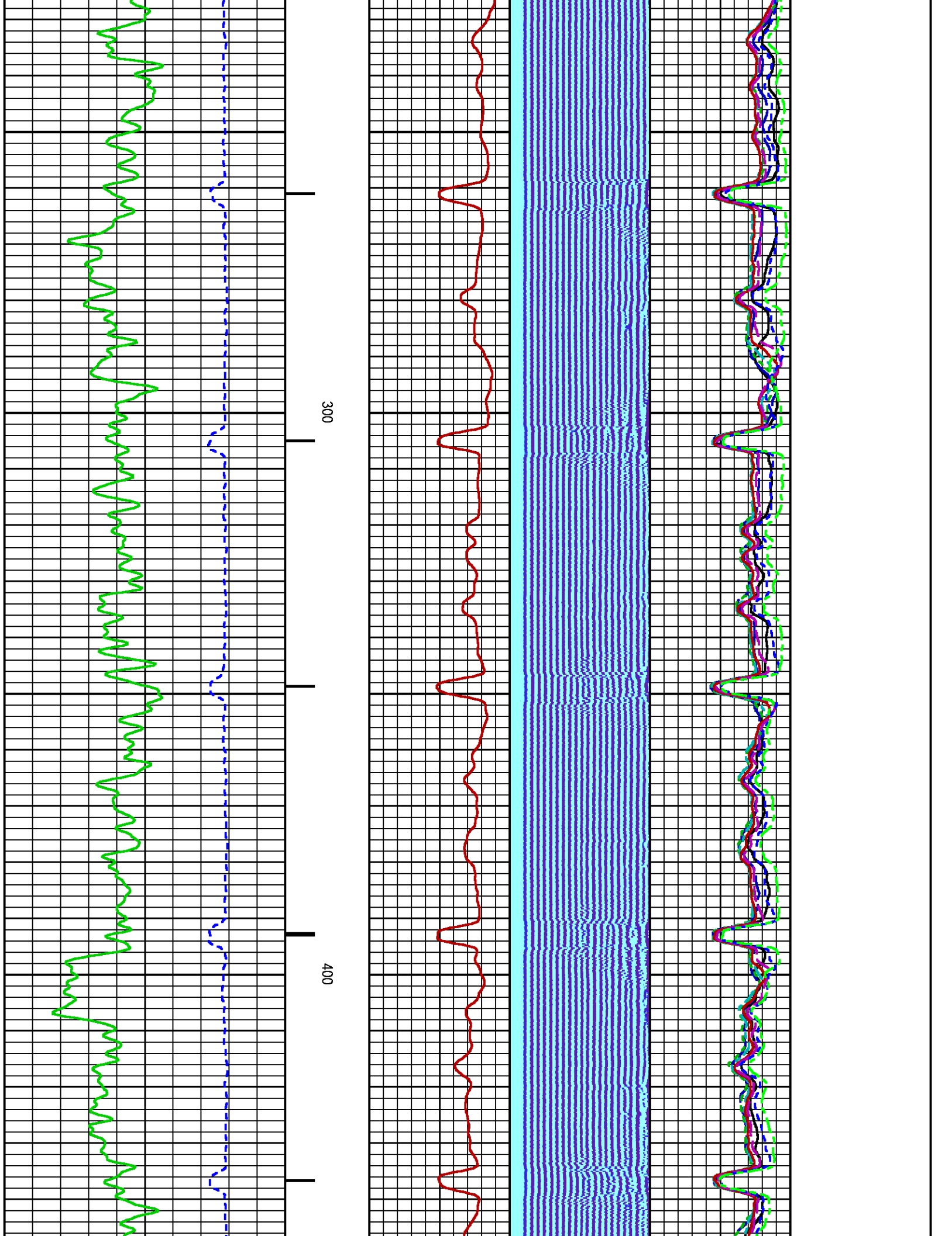
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

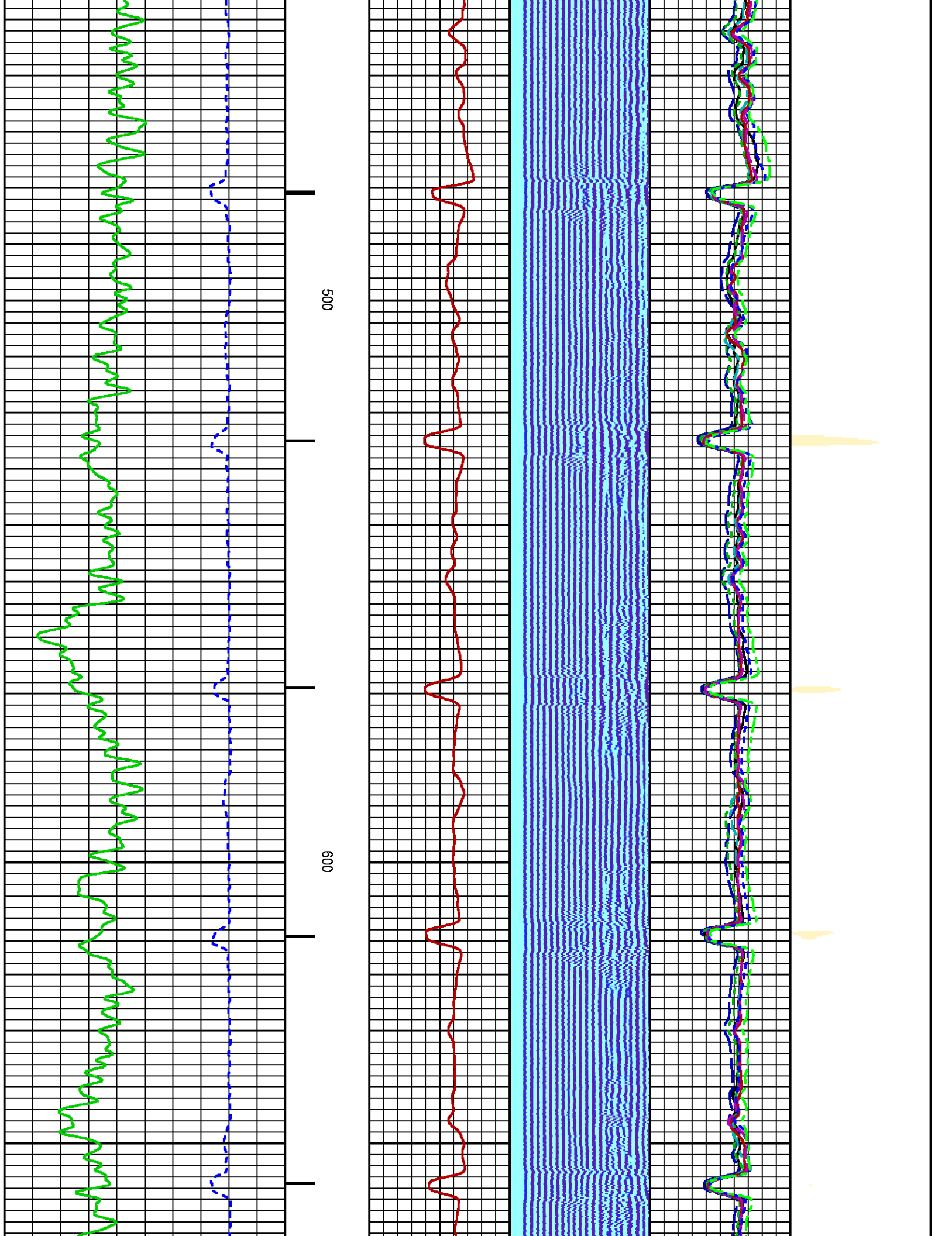
Presentation : HL6670:/dat1a/CH91033/CBL_MAIN_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval : 0 - 6051 Feet

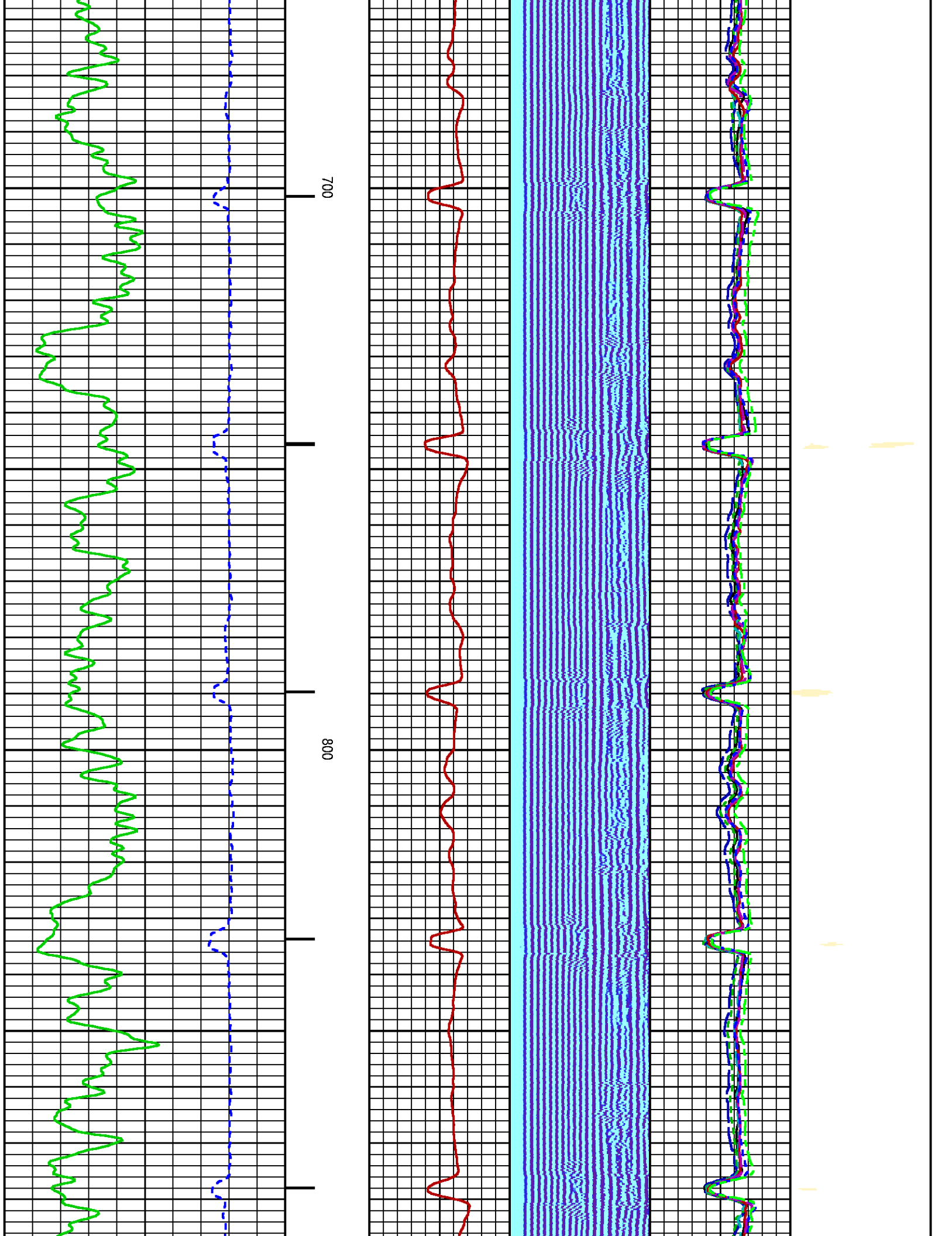
Data File 1 : F1 : HL6670:/dat1a/CH91033/CBL_MAIN.xtf
Created On : Oct 2 10:57:47 2014
Company : WPX ENERGY
Well : FEDERAL SG 33-28
Field : PARACHUTE
File Interval : 15.75 - 6052 Feet
OCT : n012e

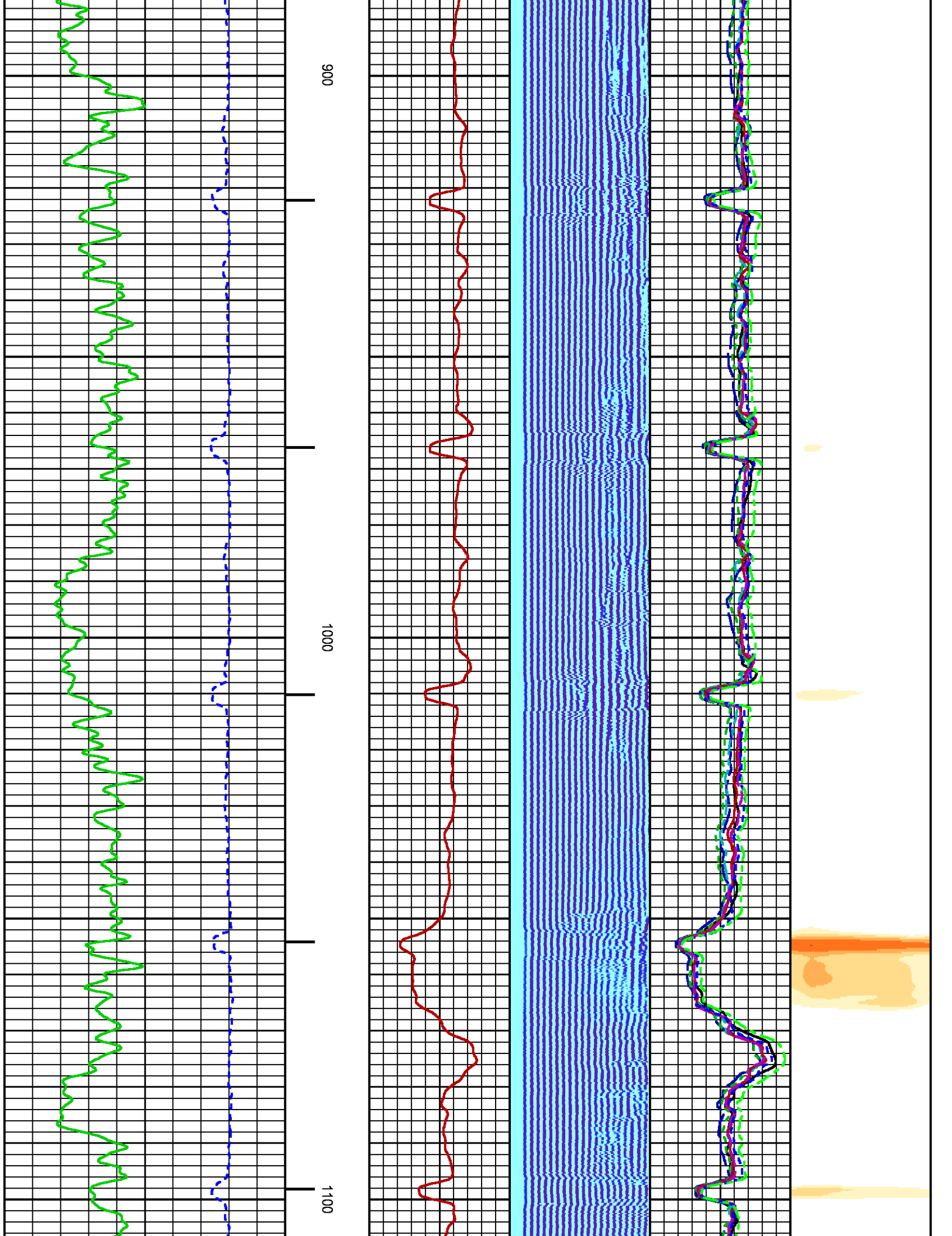


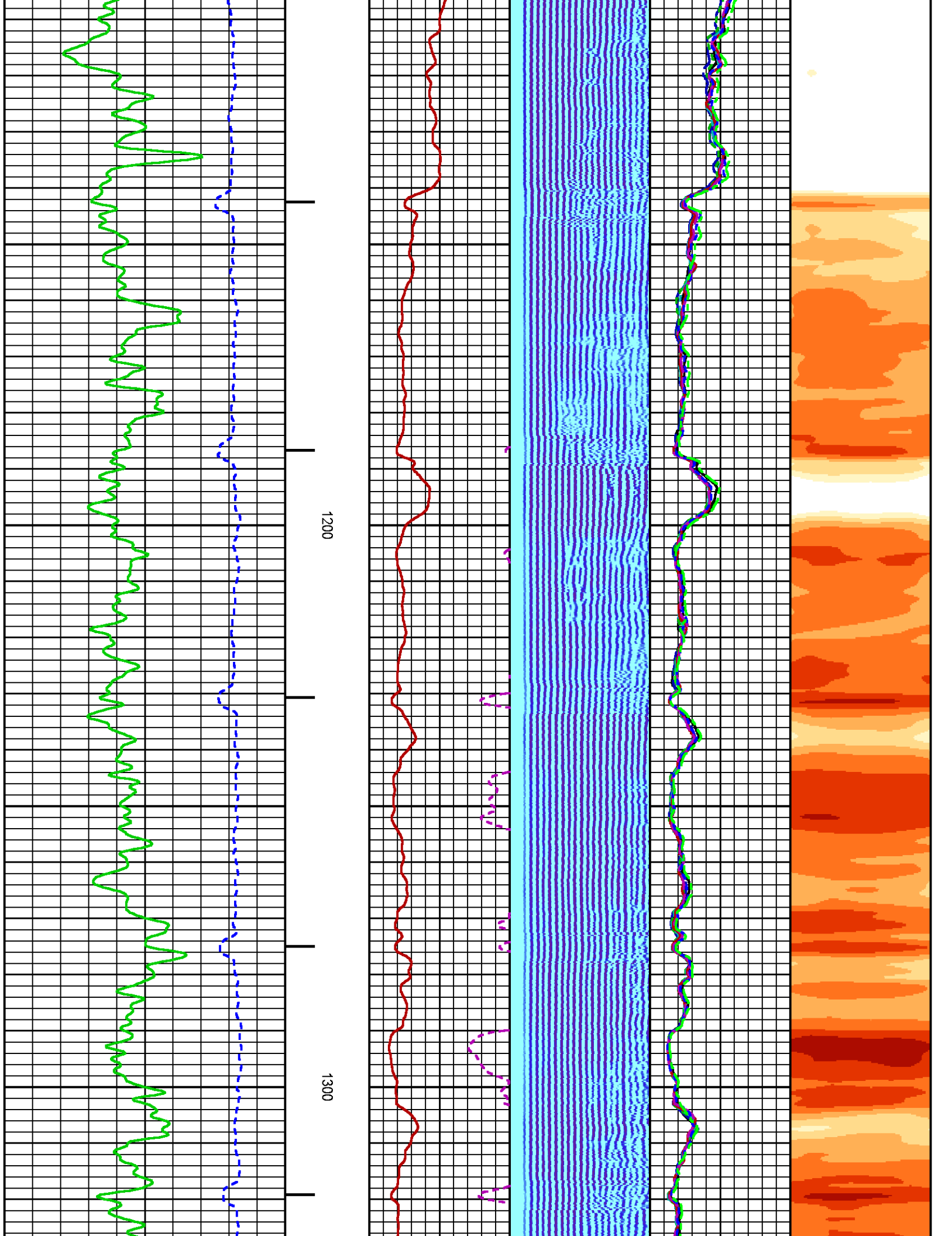


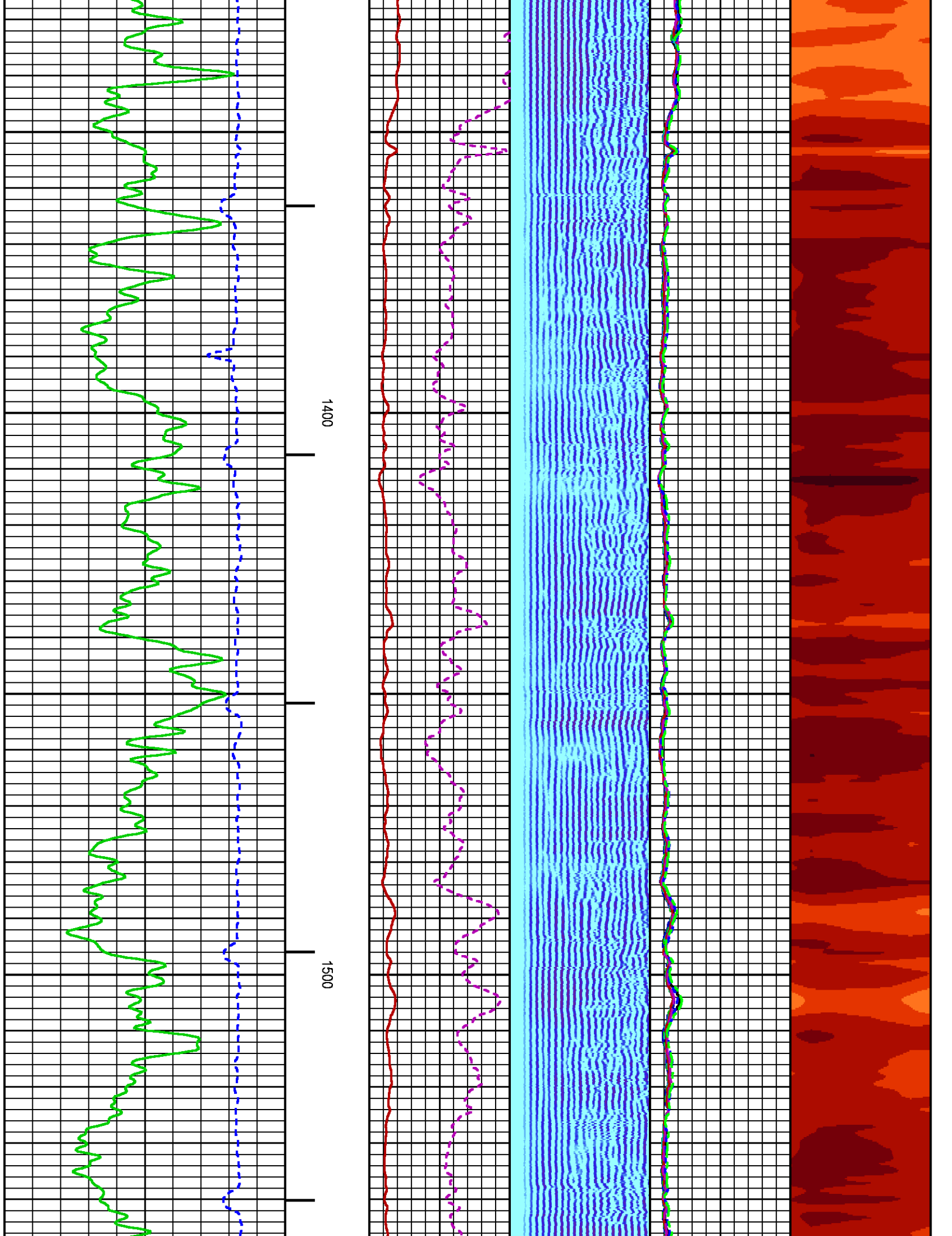


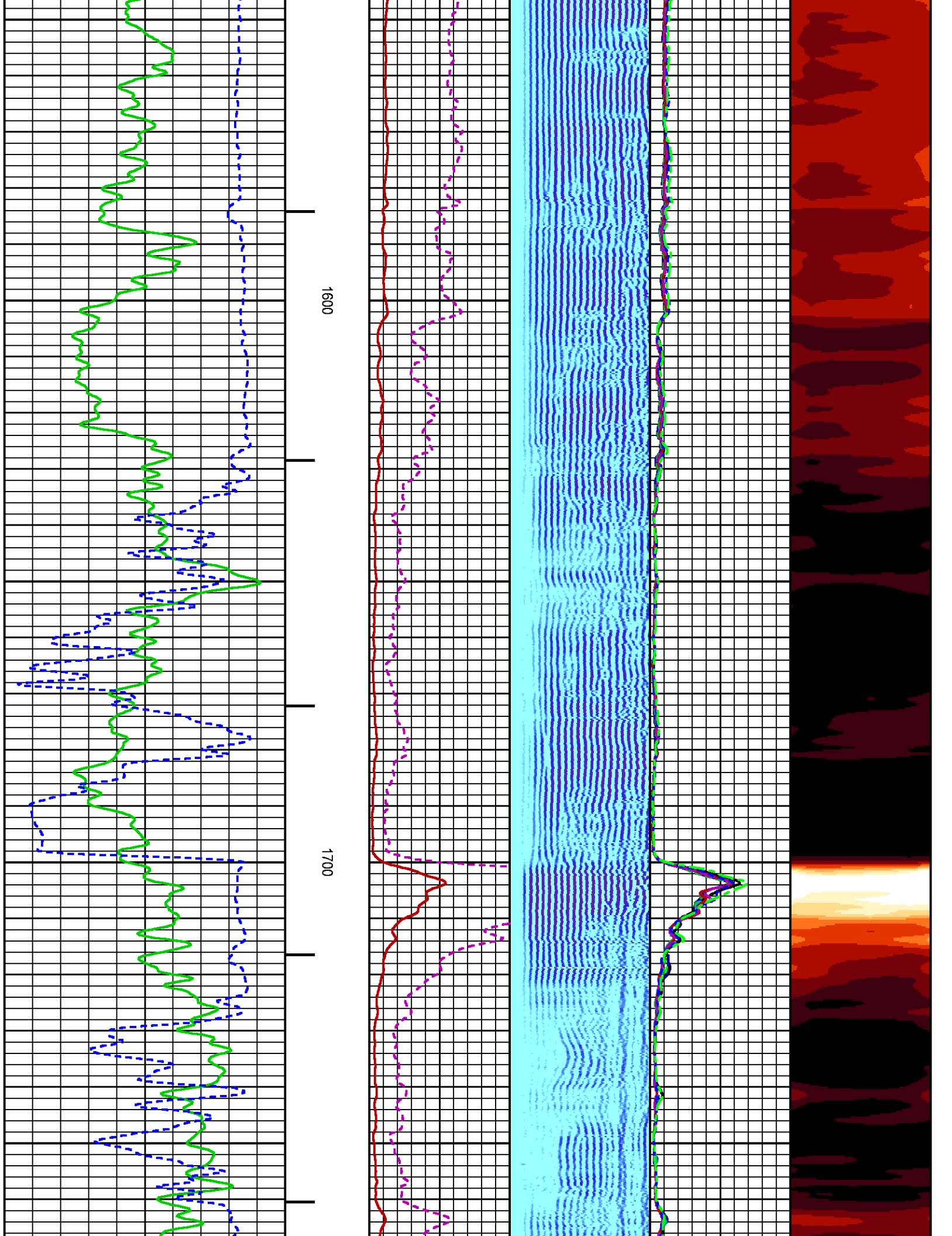


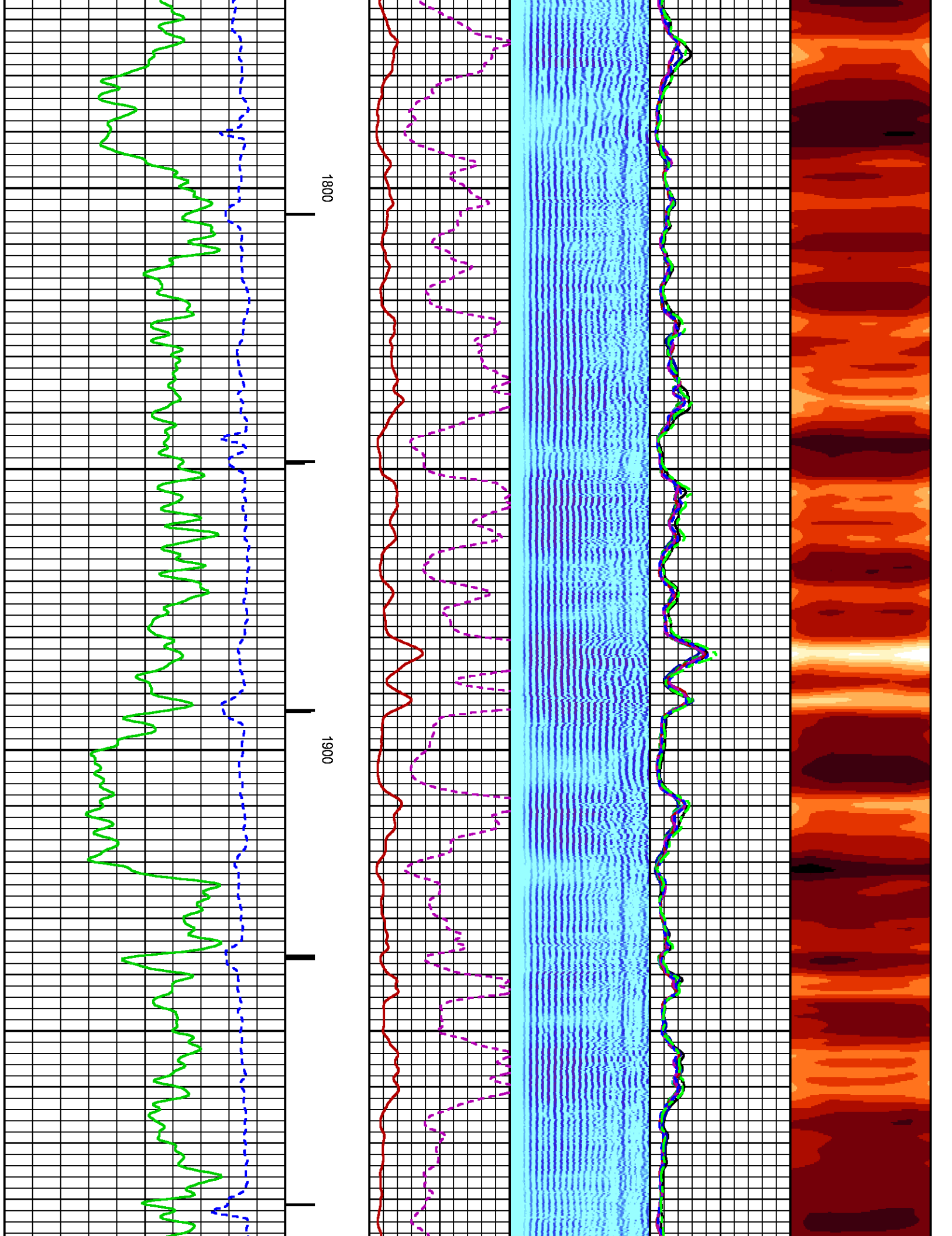


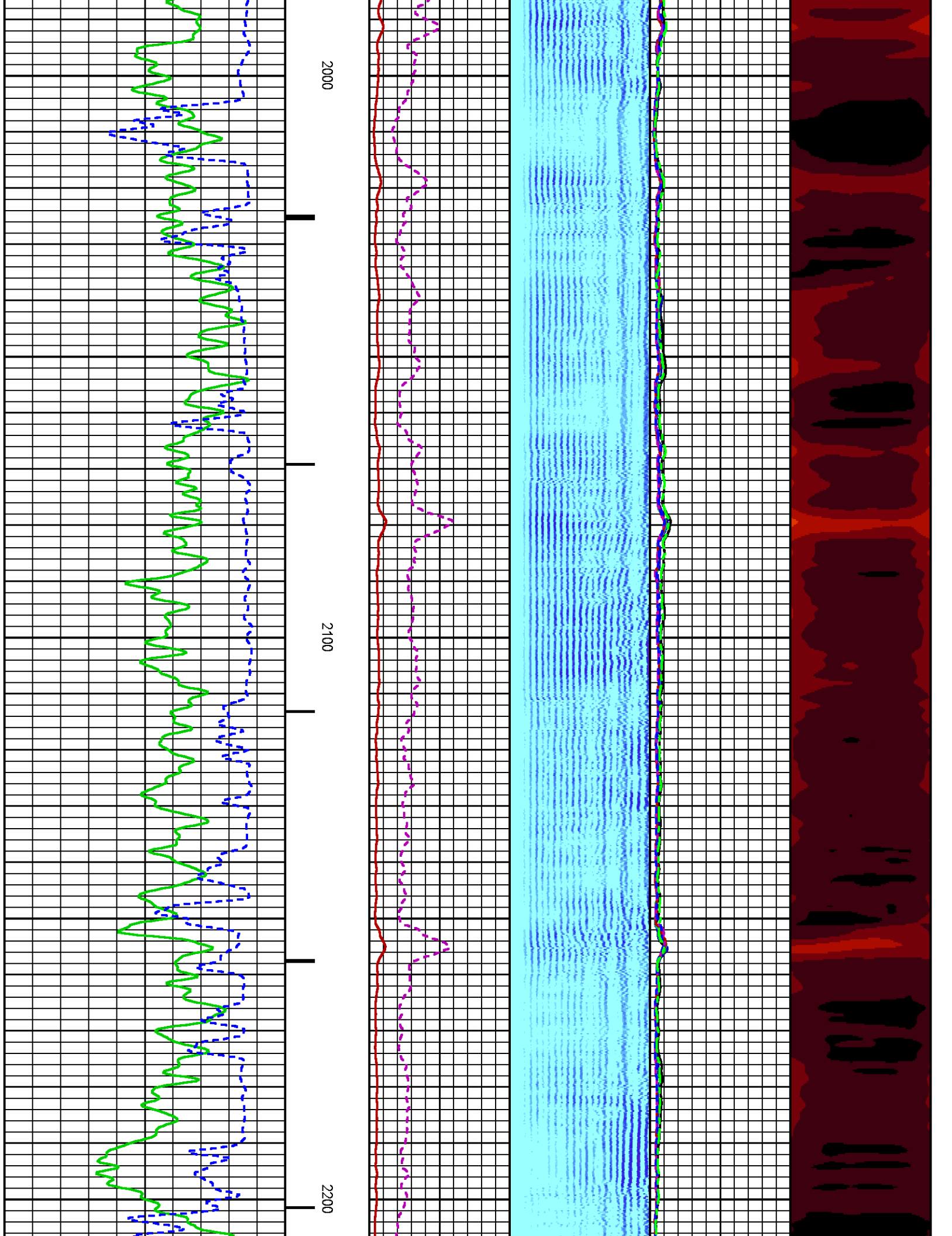


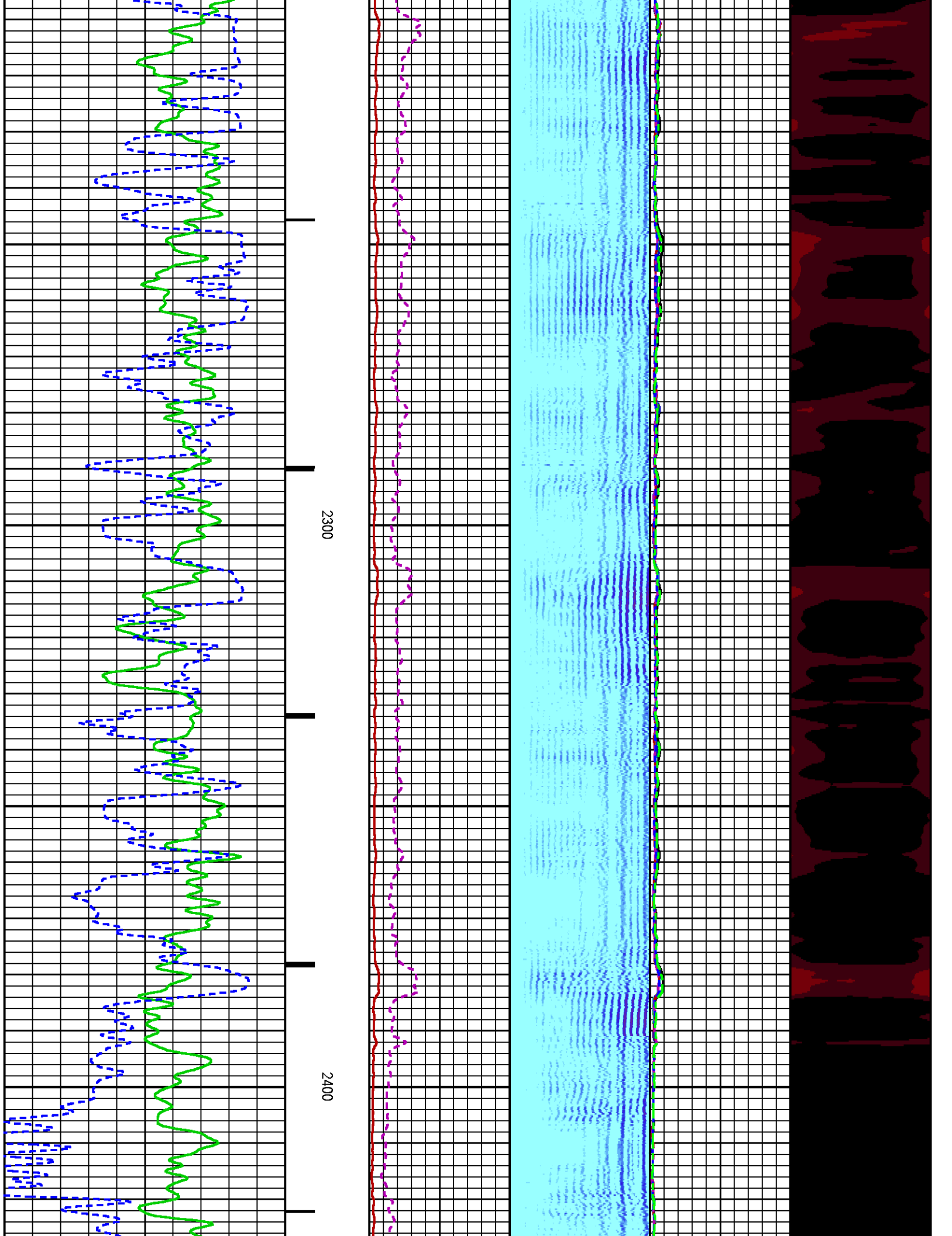


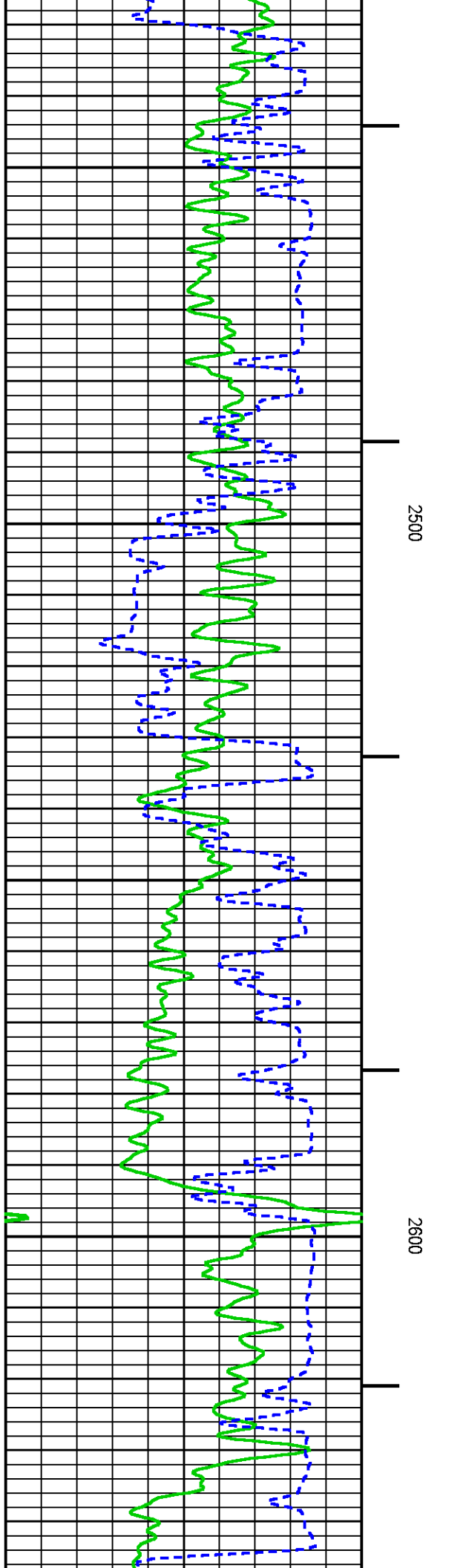
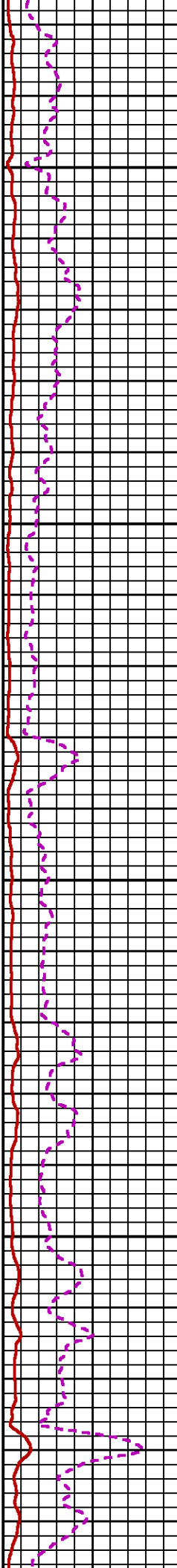
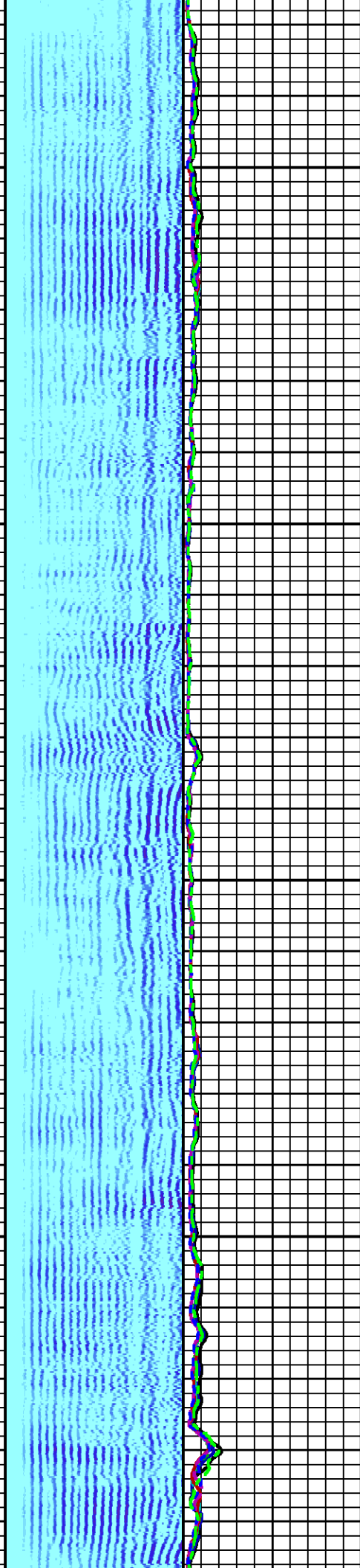


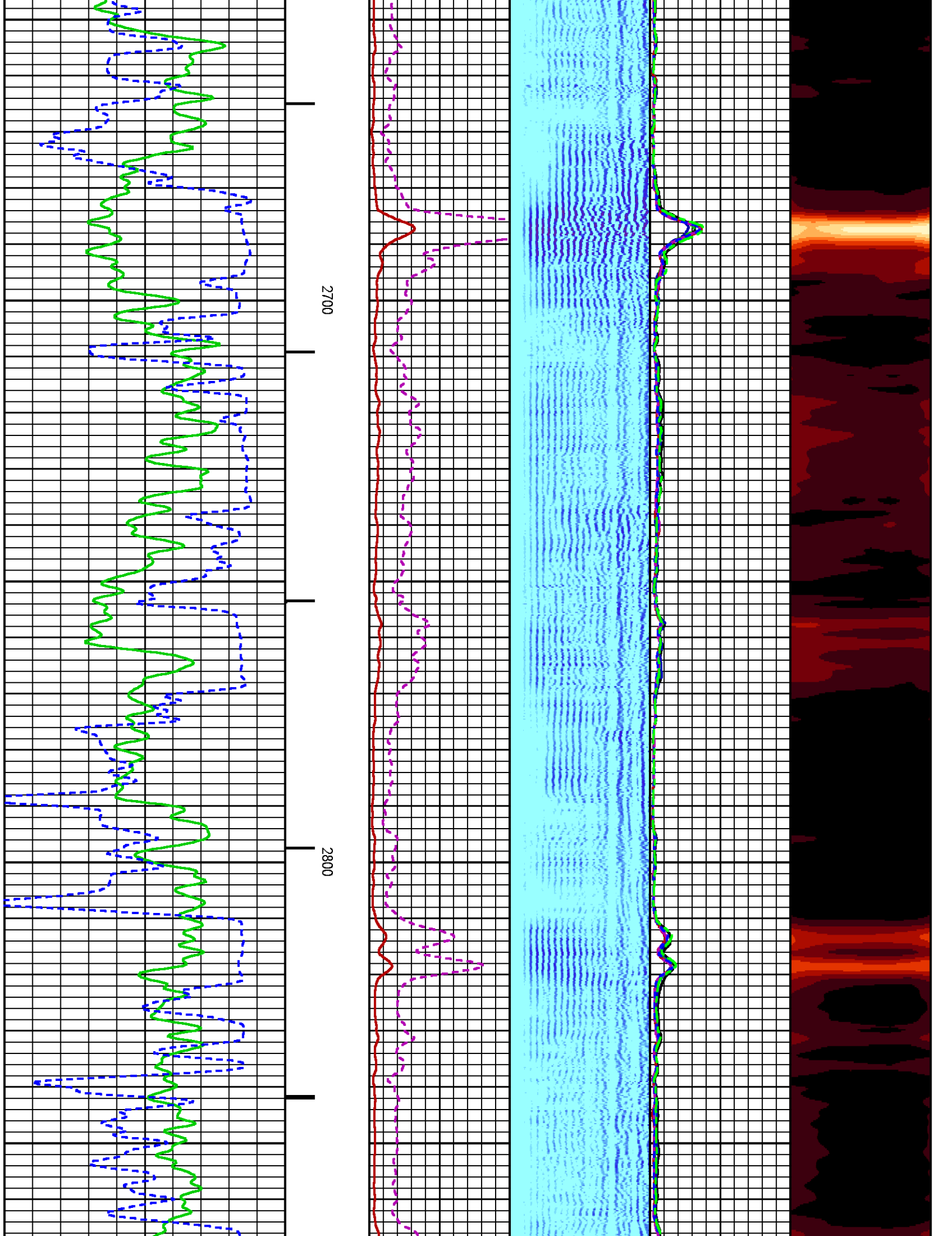


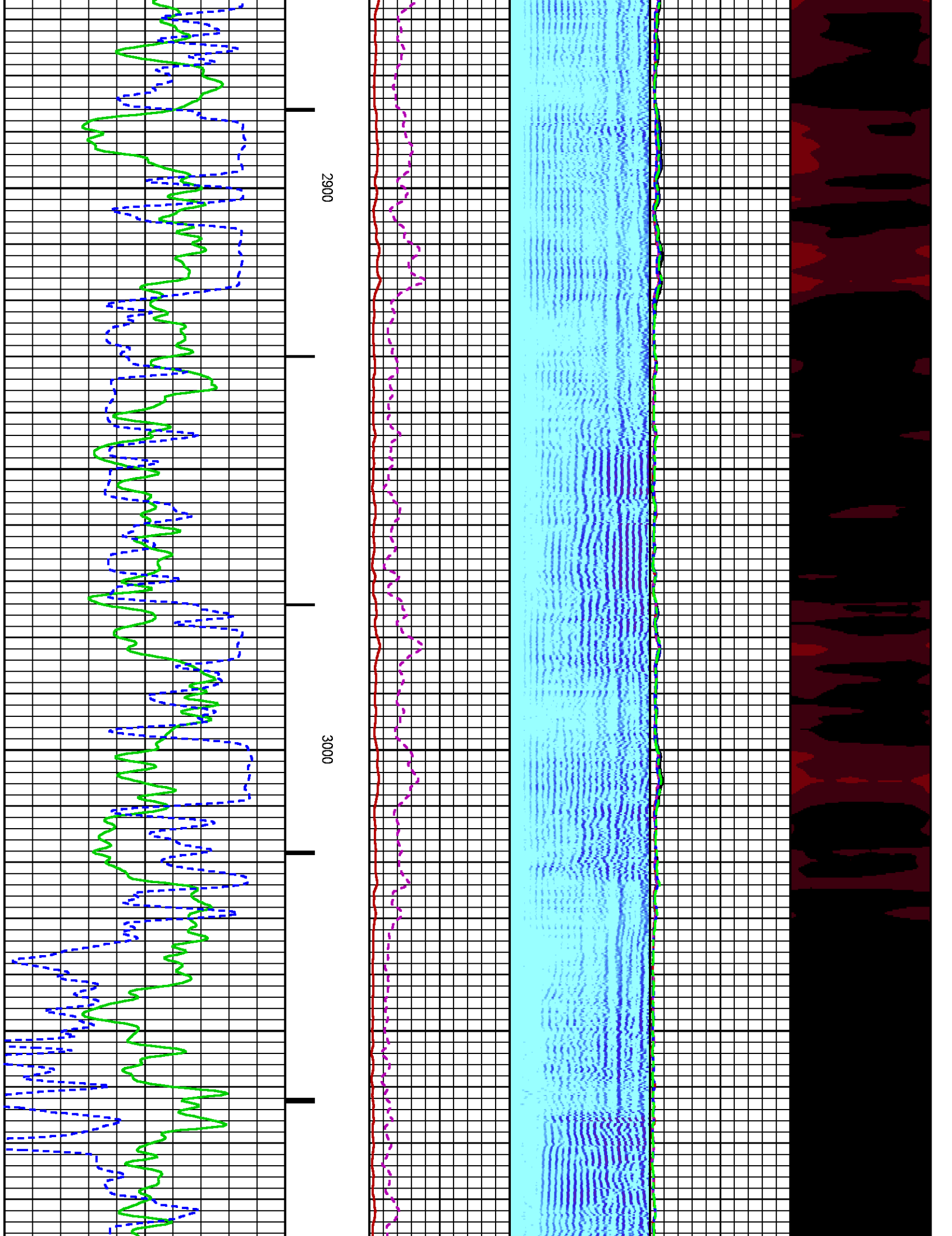


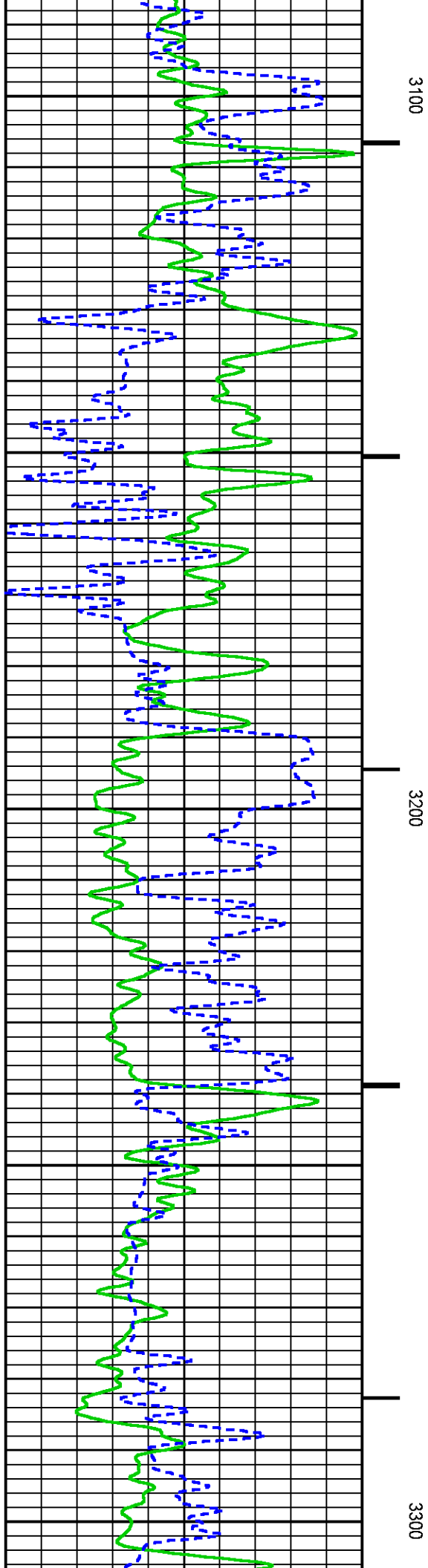
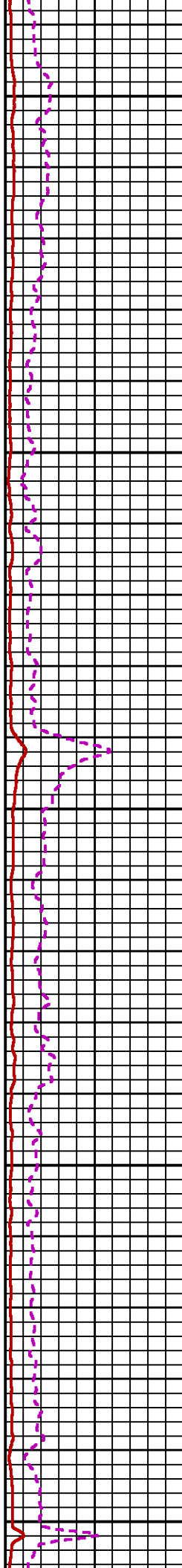
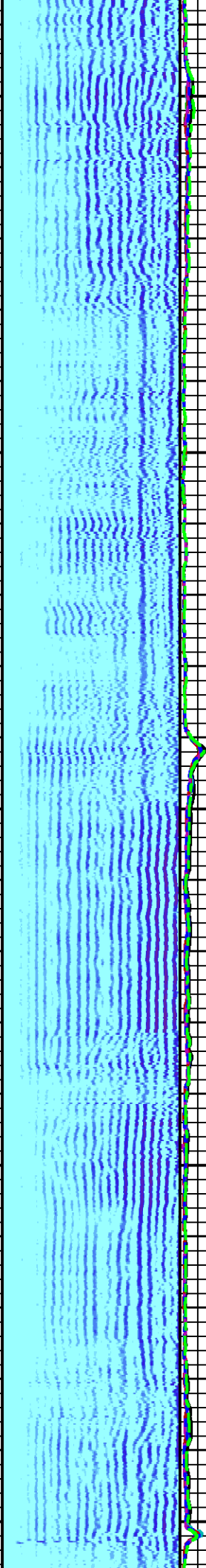


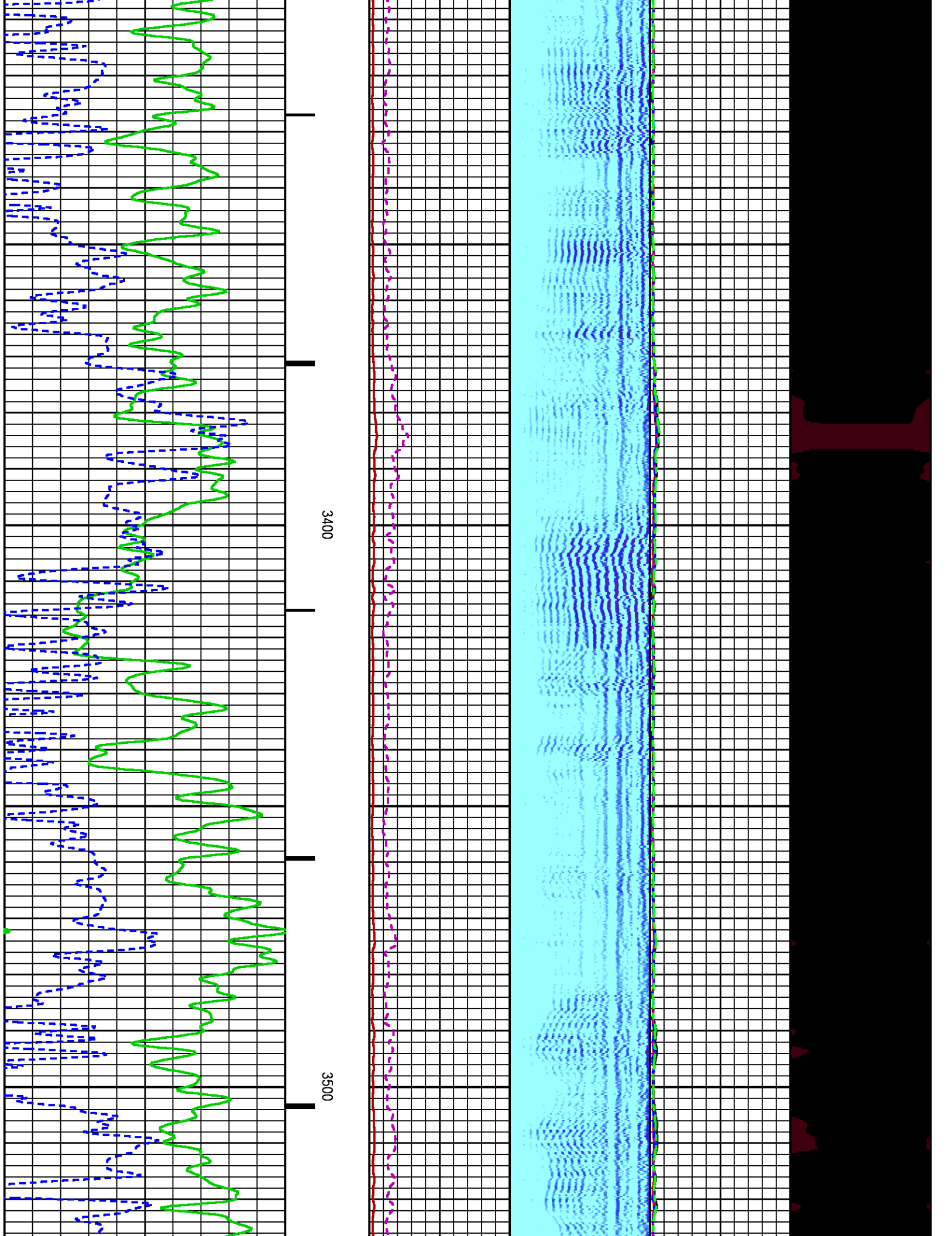


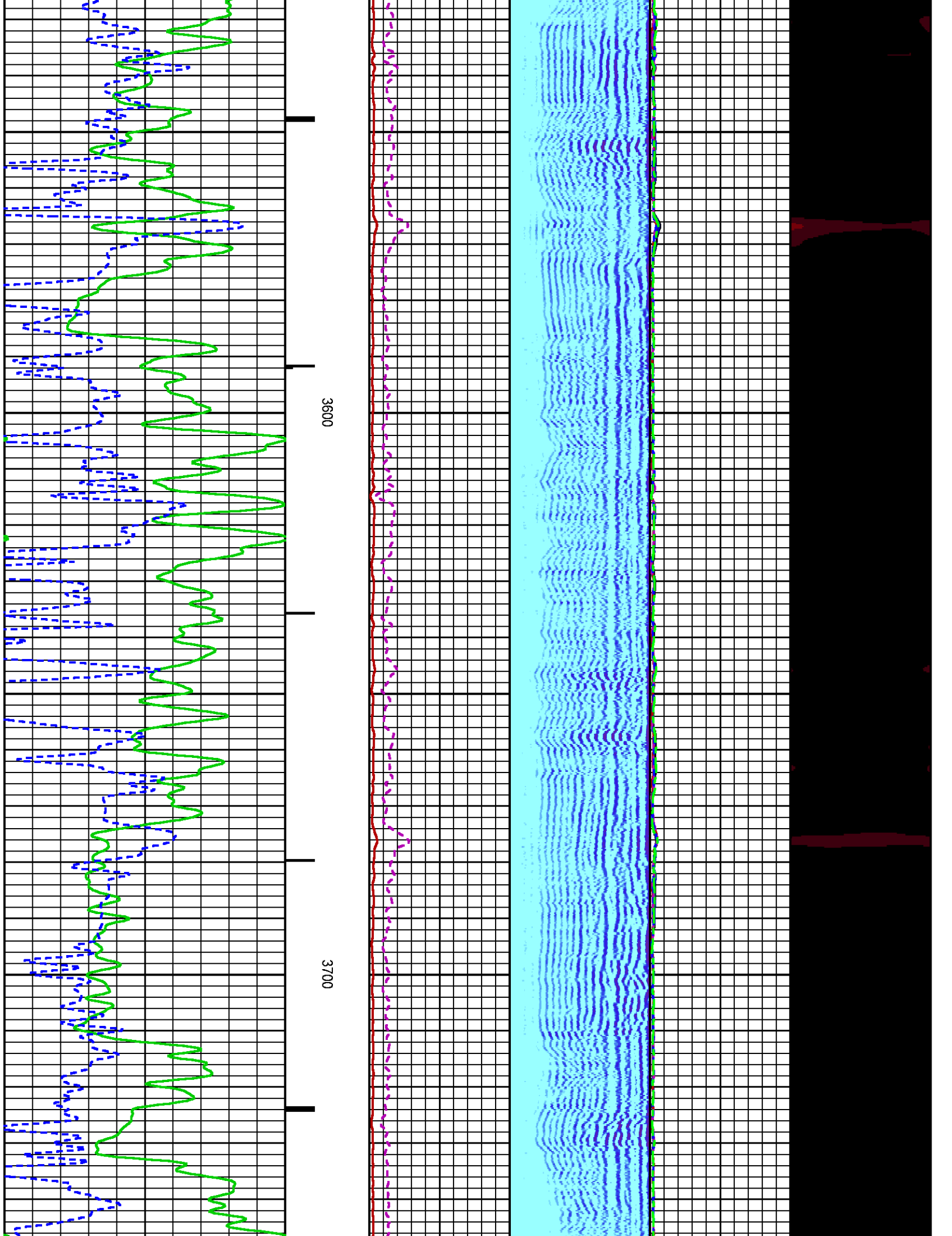


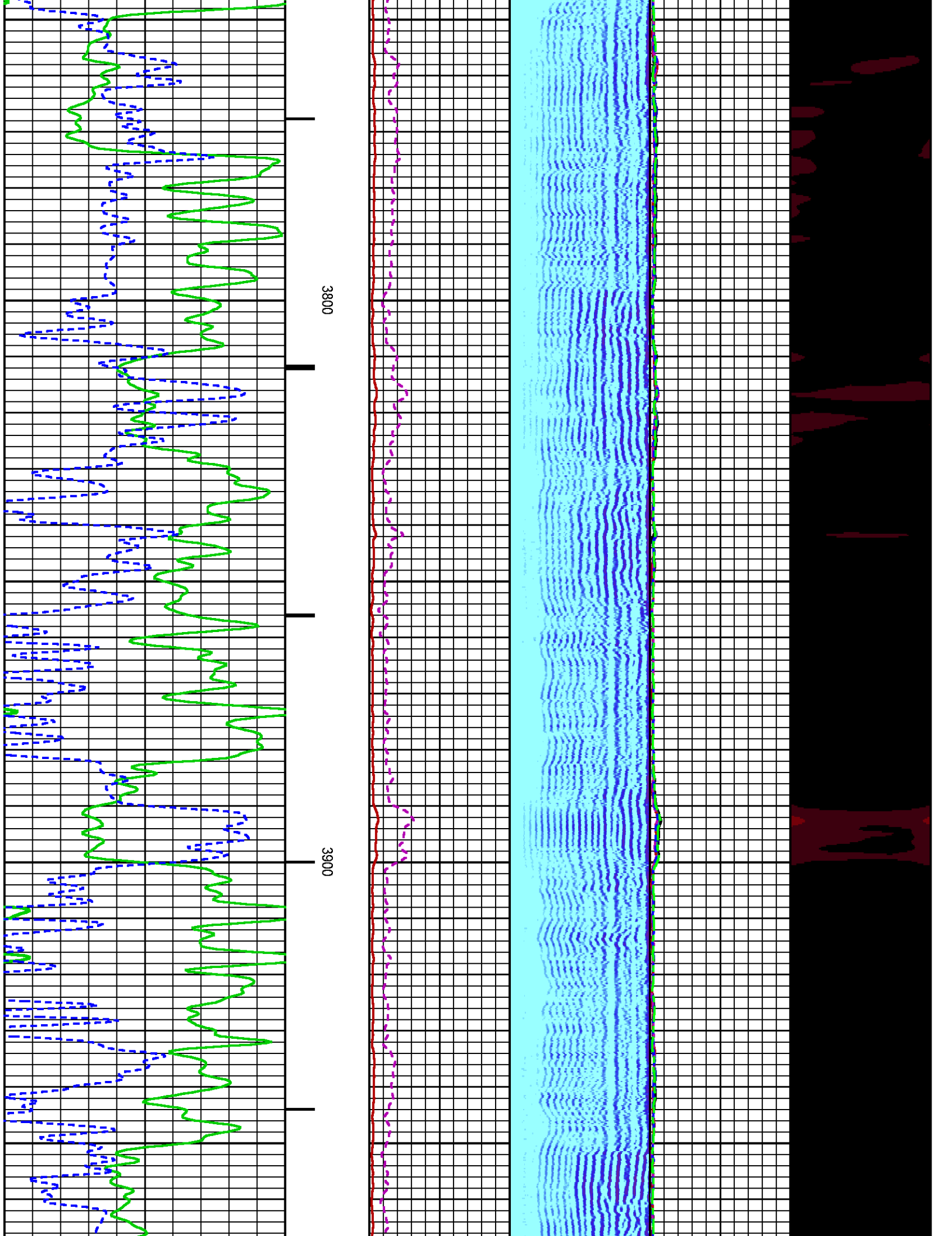


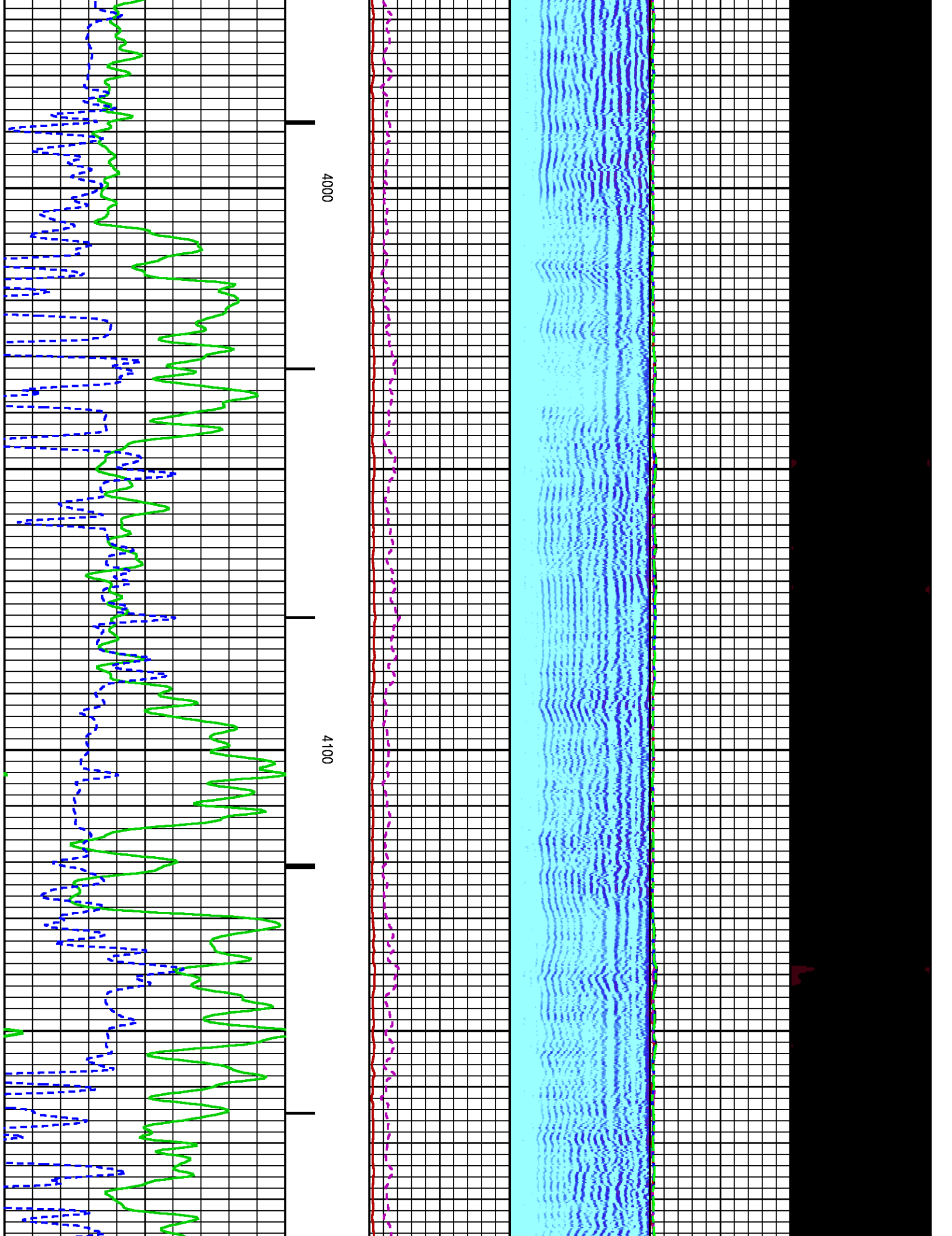


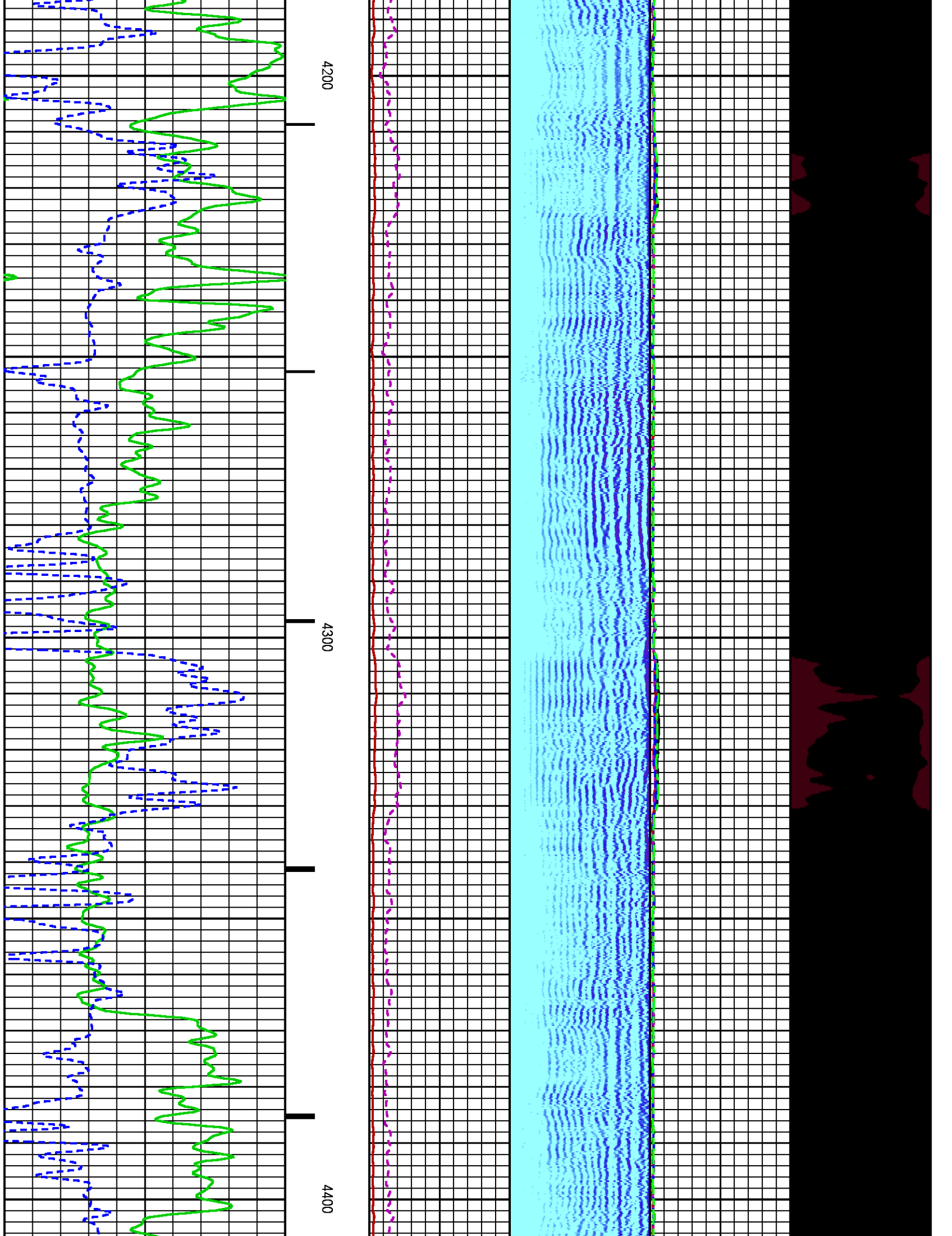


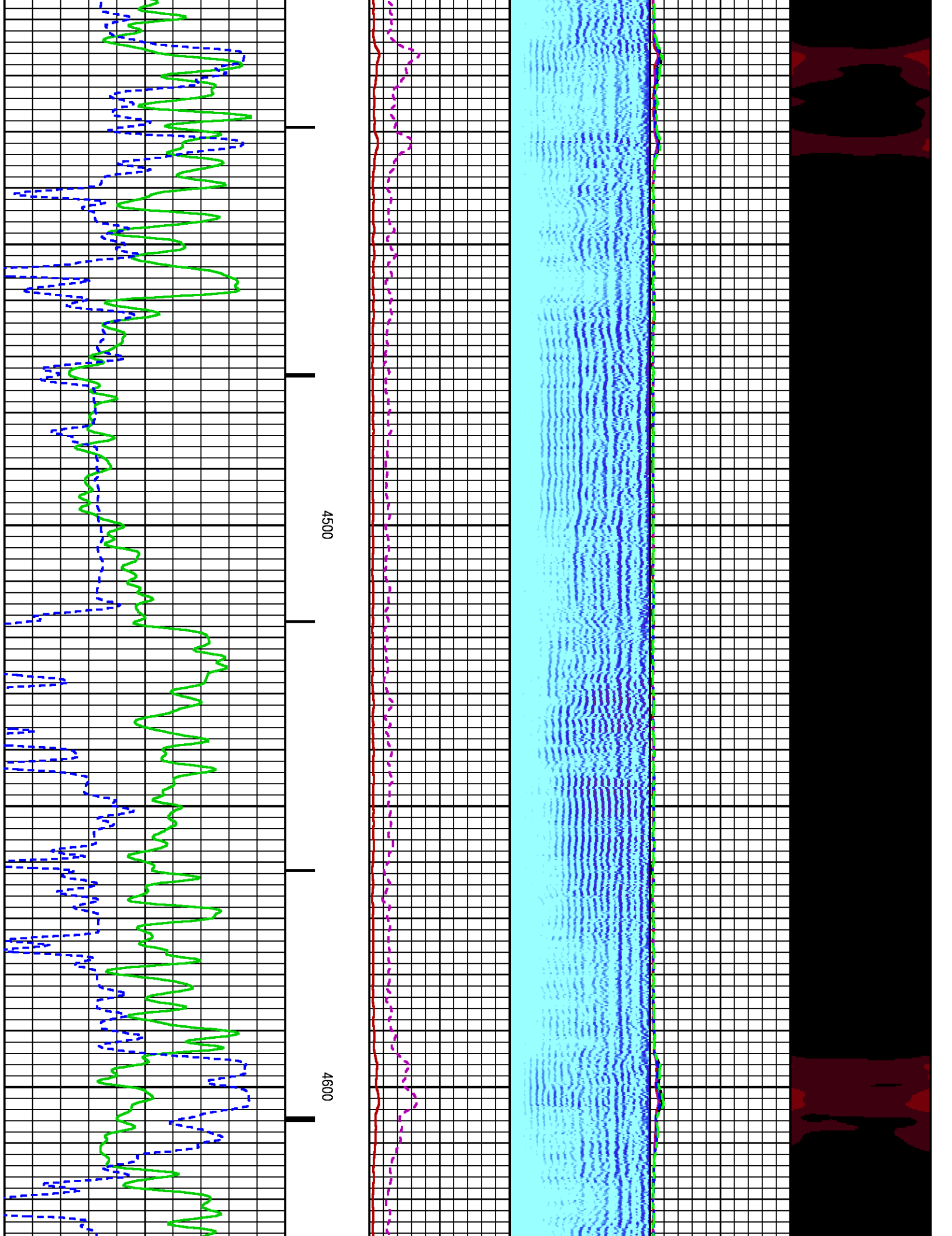


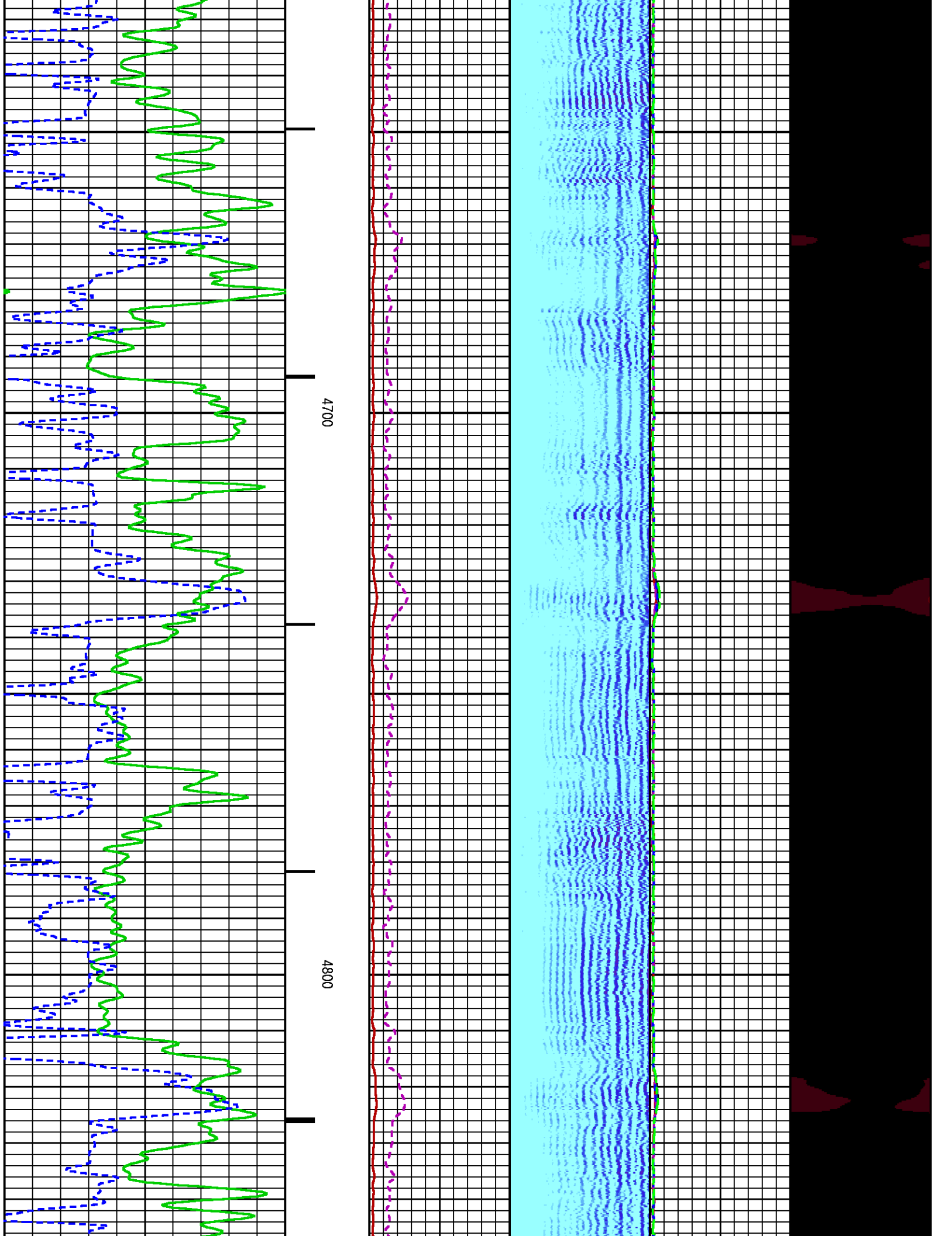


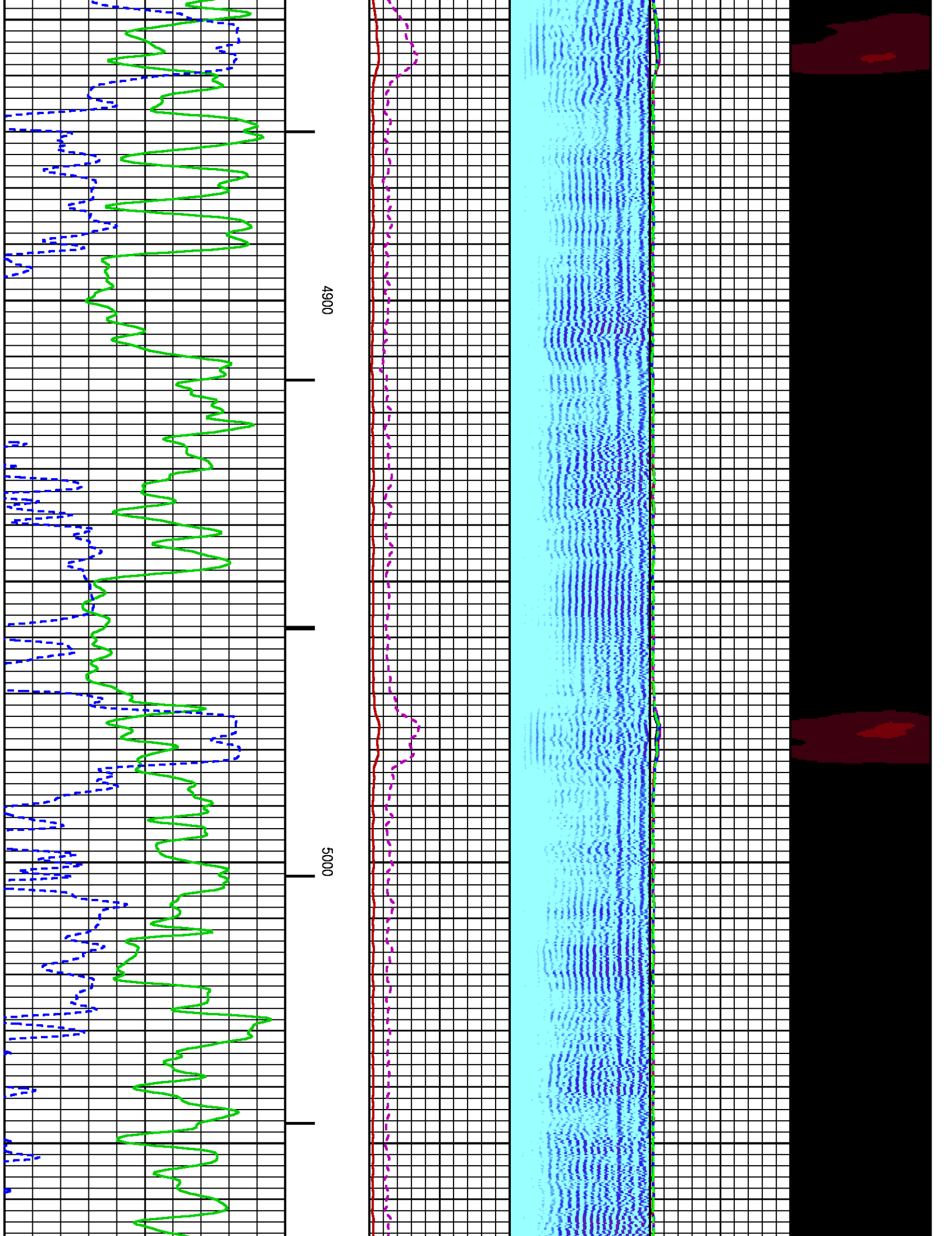


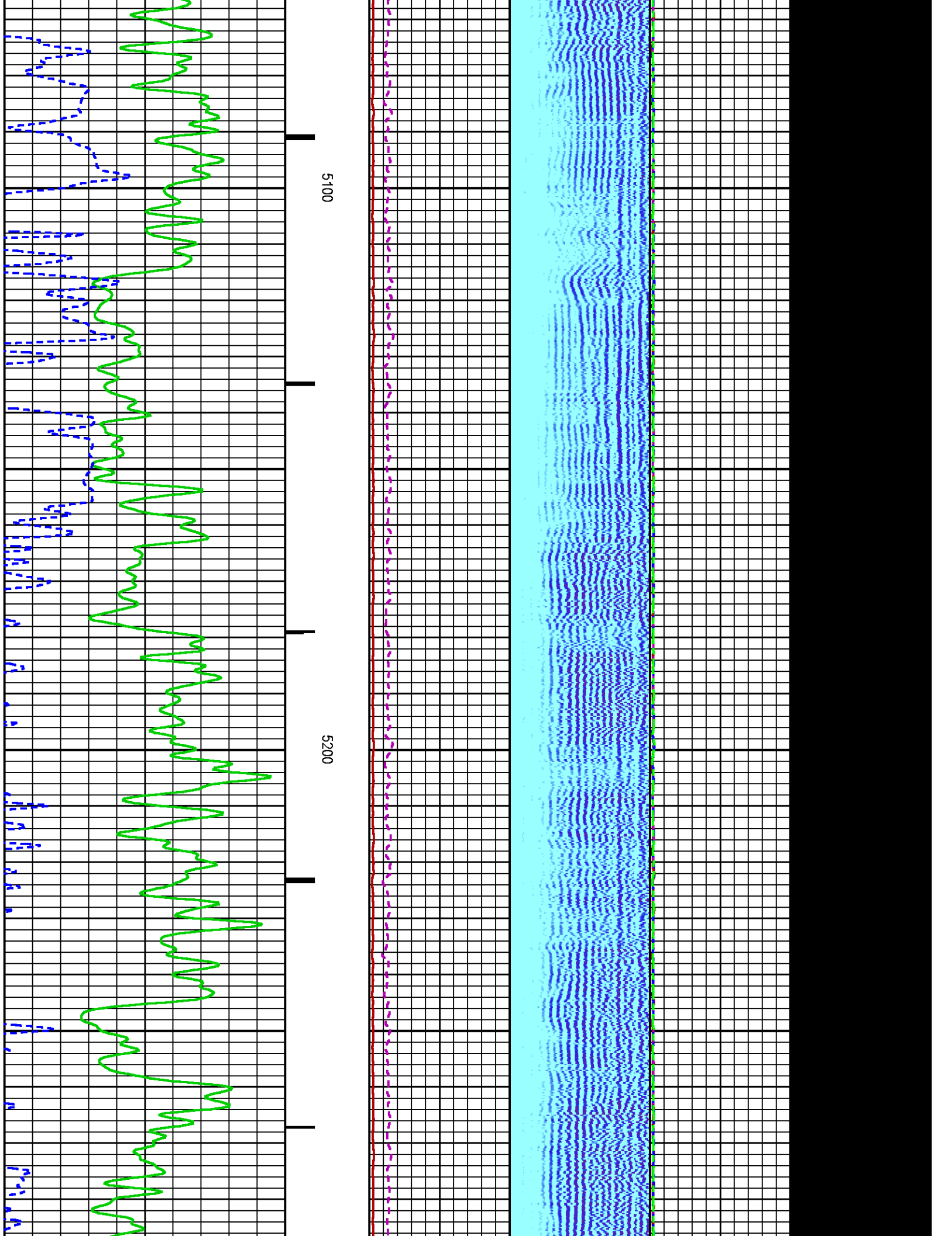


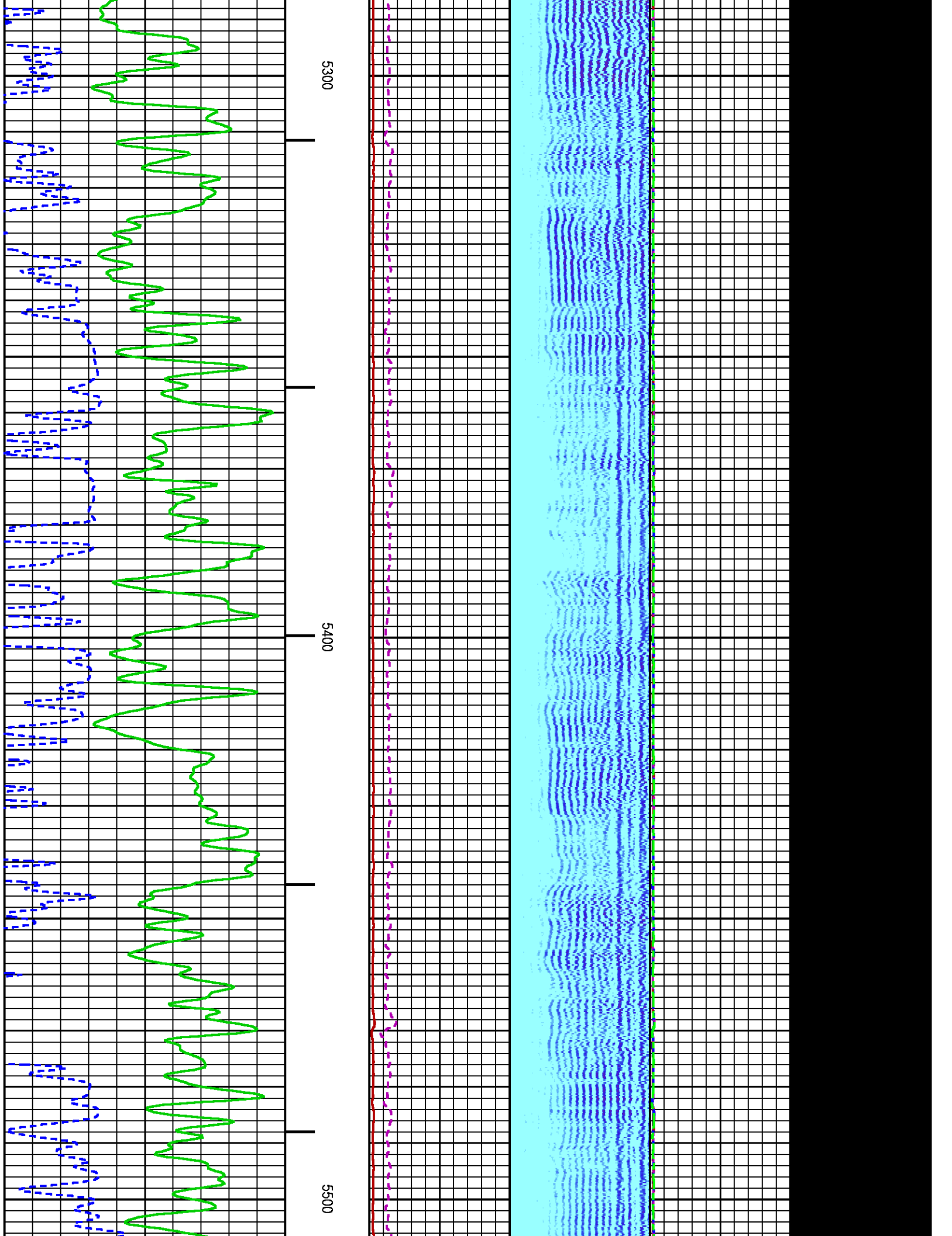


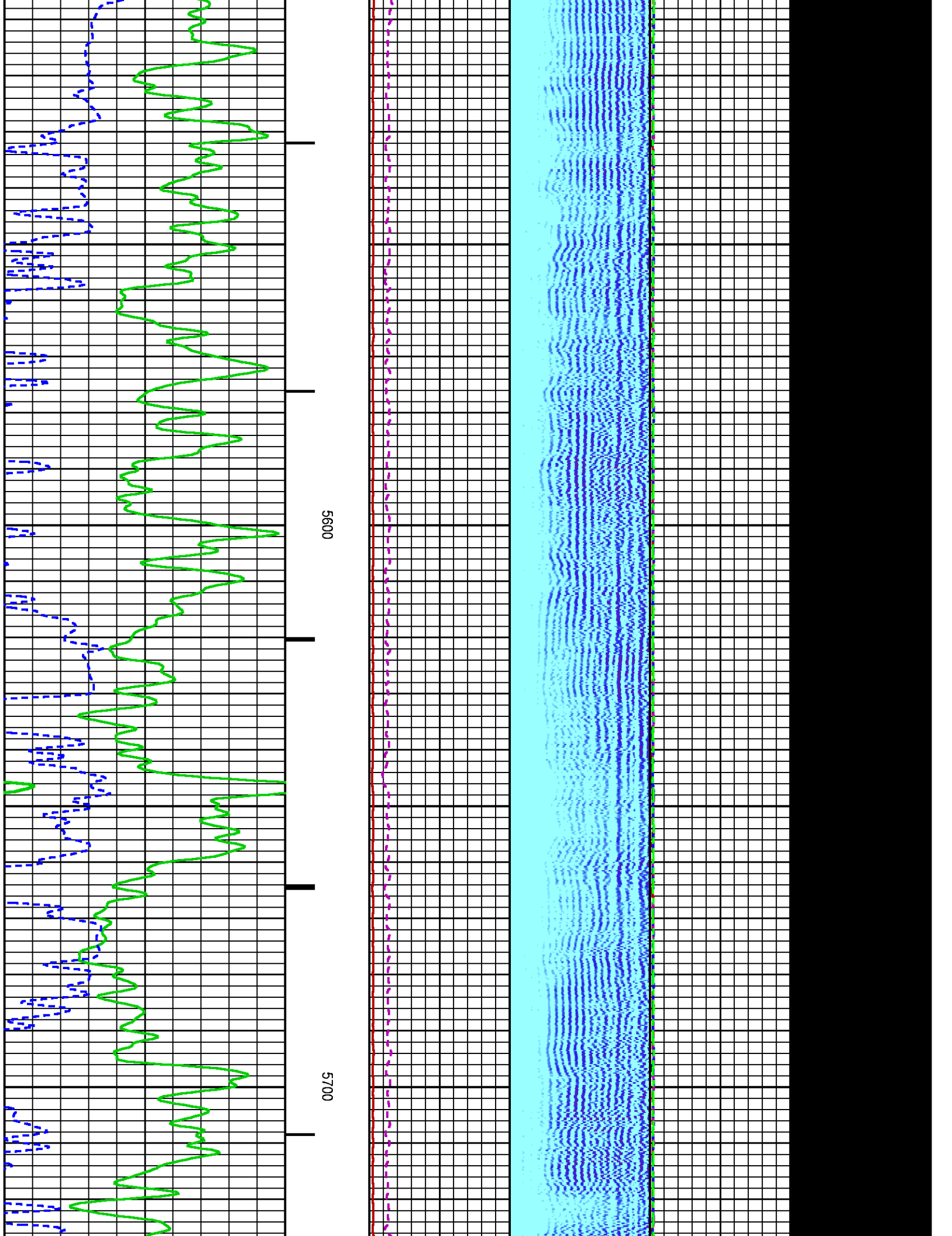


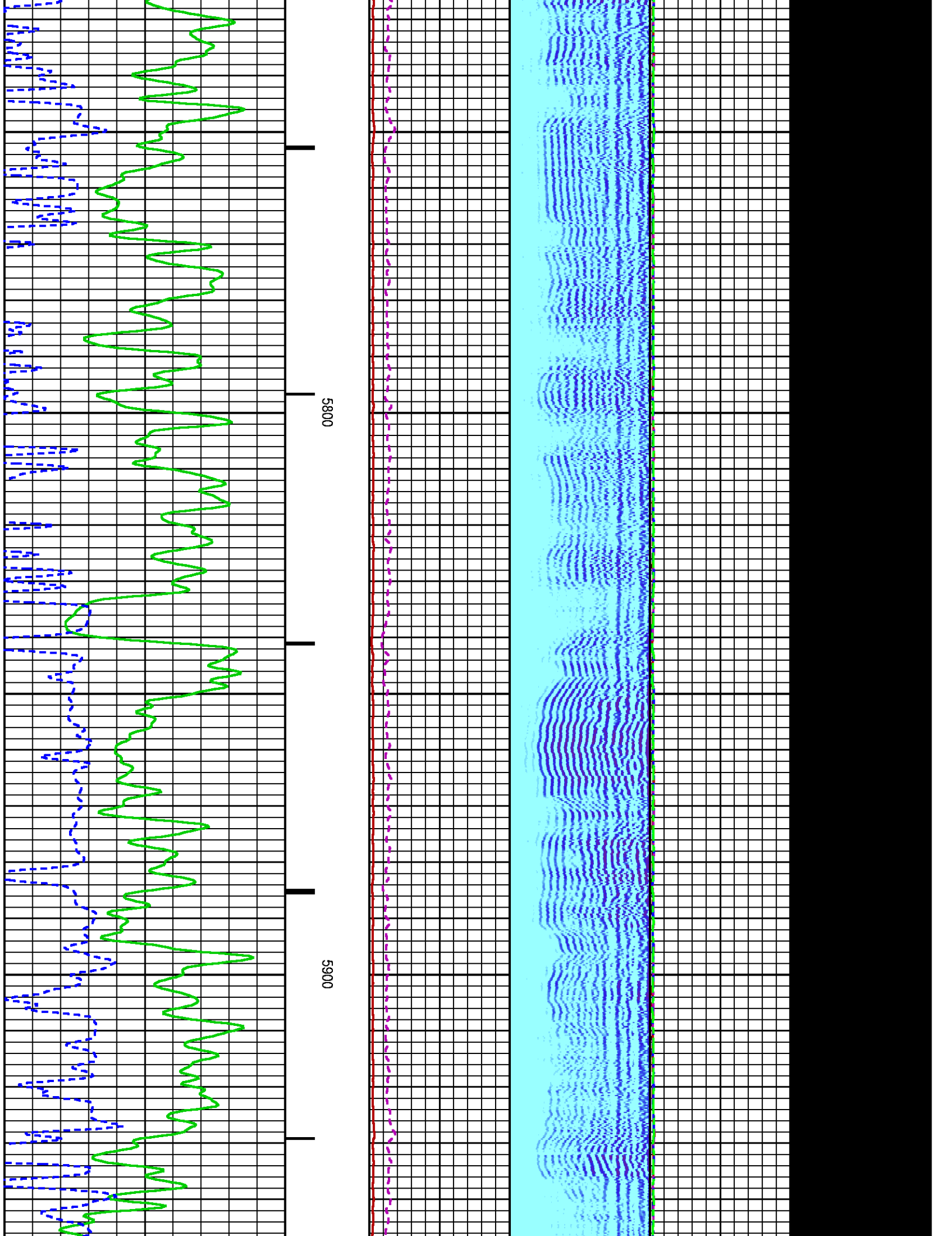


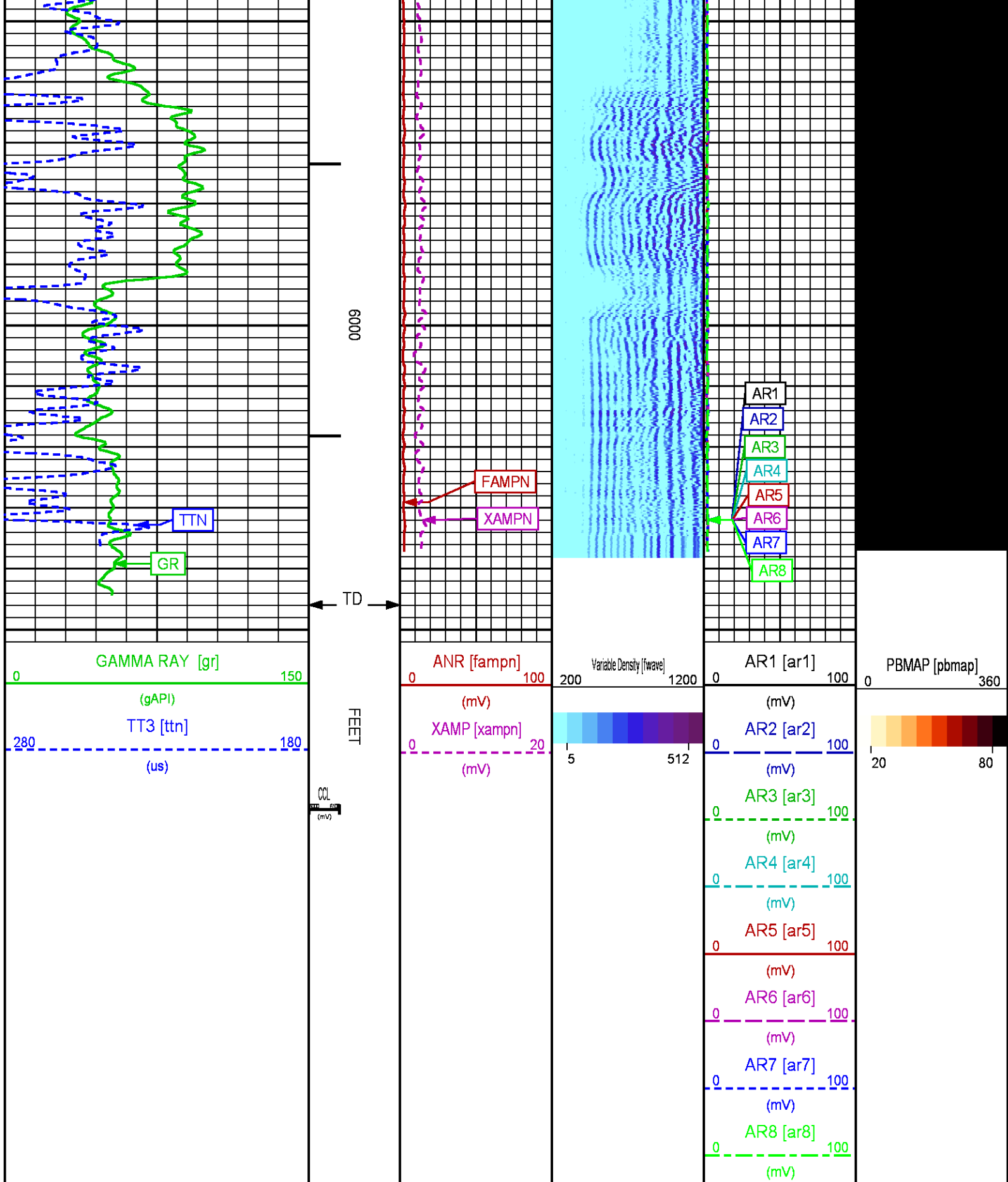












REPEAT SECTION 0 PSI

Plotted: Thu Oct 2 12:14:54 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH91033/n012e01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 5687.750 ft BOTTOM DEPTH: 6040.000 ft

SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
GR	FILTER ()	medium (1)		TOP BOTTOM
AMPLITUDE	FILTER ()	light (2a)		" "
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*)	175	us	" "
	TT WINDOW LENGTH	500	us	" "
	FIRST BRK THRESHOLD (ttn*)	4	mV	" "
RAL CASING PARAMETERS	PPT NEAR	200.391	us	" "
RAL TOOL DELAY	TOOL DELAY (strn*)	-71	us	" "
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	" "
	NOISE WINDOW LENGTH	25	us	" "

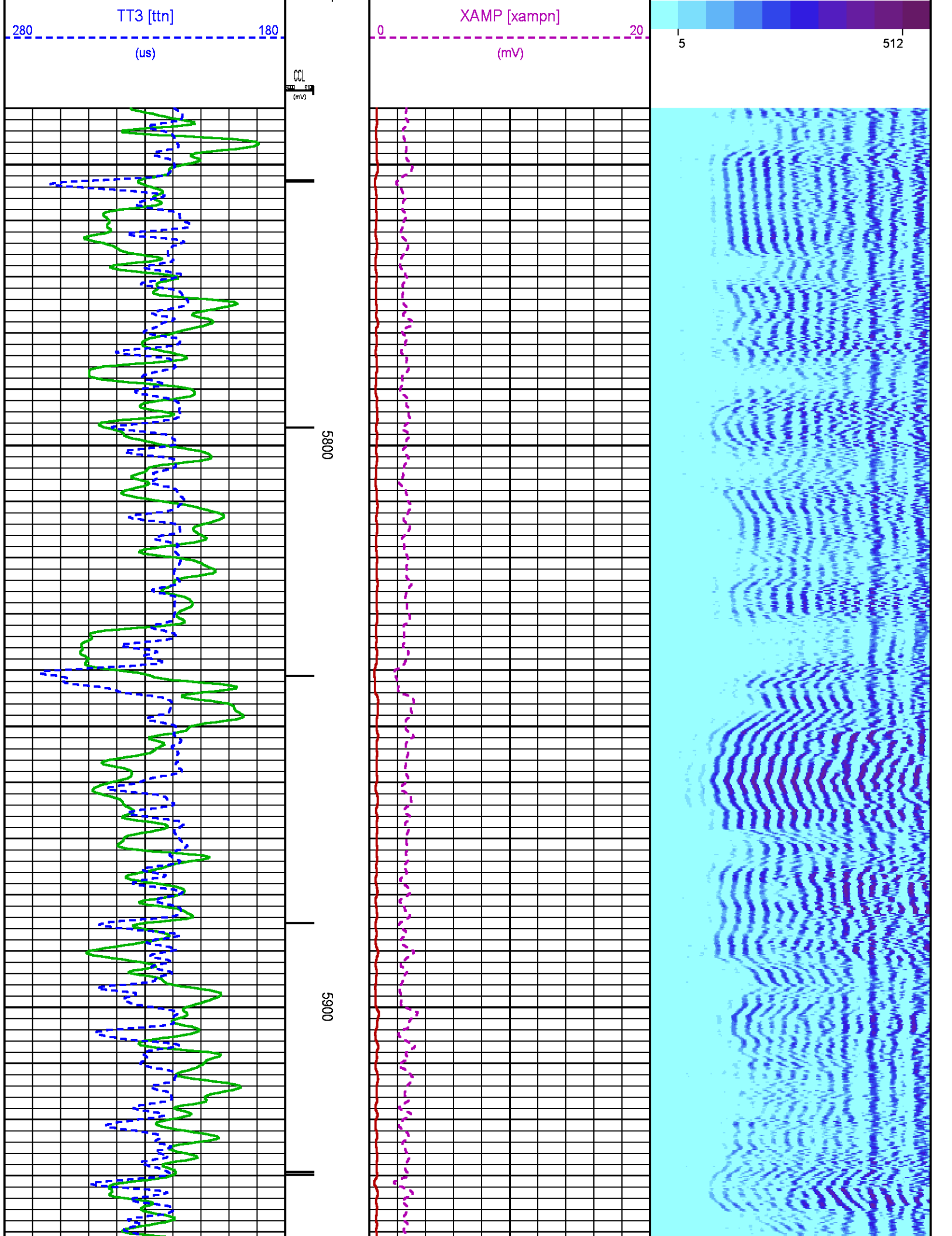
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Oct 2 08:41:46 2014	CASING COLLAR LOCATOR
F1:FAMPN	Oct 2 08:41:46 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 2 08:41:46 2014	FAR WAVE FORM
F1:GR	Oct 2 08:41:46 2014	GAMMA RAY
F1:TTN	Oct 2 08:41:46 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 2 08:41:46 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET					
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/CH91033/CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 5740 - 6040 Feet

Data File 1 : F1 : HL6670:/dat1a/CH91033/CBL_REPEAT.xtf
Created On : Oct 2 08:41:46 2014
Company : WPX ENERGY
Well : FEDERAL SG 33-28
Field : PARACHUTE
File Interval : 5682.75 - 6048.75 Feet
OCT : n012e

0	GAMMA RAY [gr]	150	FEET	0	ANR [fampn]	100	200	Variable Density [fwave]	1200
	(gAPI)				(mV)				



M FACTOR 0.35 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.48 0.36

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10218495 DATE/TIME PERFORMED: Thu Oct 2 08:07:52 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	-0.00	0.01	0.01	-0.01	0.00	-0.01	0.01	0.00	0.00	0.03	0.00
AMP AIR	1.41	1.42	1.38	1.42	1.51	1.47	1.36	1.50	1.26	2.75	101.53

SHOP M FACTOR	SHOP A FACTOR	WIRELIN E FACTOR
0.36	0.00	0.98

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2459XA 10218503 DATE/TIME PERFORMED: Thu Oct 2 07:52:08 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	47.82	295.87	248.0	0.746	35.67	220.67	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2459XA 10218503 DATE/TIME PERFORMED: Thu Oct 2 07:53:44 2014

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

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	49.11	295.91	0.746	36.63	220.70	184.07
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH91033/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'

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"

	COMPANY <u>WPX ENERGY</u>		FILE NO: <u>CH091033</u>
	WELL <u>FEDERAL SG 33-28</u>		API NO: <u>05045219600000</u>
	FIELD <u>GRAND VALLEY</u>		
	COUNTY <u>GARFIELD</u>	STATE <u>CO</u>	
LOCATION: SHL: 2256' FSL & 481' FEL BHL: 2295' FSL & 2187' FEL SEC <u>28</u> TWP <u>7S</u> RGE <u>96W</u>		ELEVATIONS: KB 5143 FT DF GL 5119 FT	28 7S 96W SG 43-28 PAD H&P 318
		DATE <u>02-Oct-2014</u>	