



FILE NO: CH092567
 COMPANY: WPX ENERGY
 WELL: FEDERAL SG 342-28
 FIELD: GRAND VALLEY
 COUNTY: GARFIELD STATE: COLORADO
 API NO: 05045219590000

Ver. 3.87
 28 7S 96W
 FEDERAL SG 43-28
 H&P 318
 LOCATION: SHL: 2309' FSL & 510' FEL
 BHL: 1827' FNL & 151' FEL
 SEC 28 TWP 7S RGE 96W
 OTHER SERVICES: RPM

PERMANENT DATUM: GL ELEVATION 5119 FT
 LOG MEASURED FROM: KB 24 FT ABOVE P.D.
 DRILL. MEAS. FROM: KB
 ELEVATIONS: KB 5143 FT, DF, GL 5119 FT

DATE	20-Nov-2014
RUN	1
TRIP	1
SERVICE ORDER	US092567
DEPTH DRILLER	5352 FT
DEPTH LOGGER	5281 FT
BOTTOM LOGGED INTERVAL	5271 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	13:30
TIME FINISHED	16:00
OPERATOR RIG TIME	2.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	60 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 FMIN
MAX. RECORDED TEMP.	188 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	HL-6670
LOCATION	GRAND JCT.
RECORDED BY	NEWELL/EDWARDS
WITNESSED BY	BOB CADY

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.

BIT SIZE	FROM	TO
13.5 IN	0 FT	1311 FT
8.75 IN	1311 FT	5384 FT

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	1311 FT
4.5 IN	11.6 LB/F	I-80	0 FT	5384 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 -5 feet.

Logged with zero PSI at wellhead.

BHT = 188 degF
 SJ = 3205' - 3228'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	BOND TOOL	1426XA	10417452	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: 4

Plotted: Thu Nov 20 23:22:00 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH092567/n012e02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 35.750 ft BOTTOM DEPTH: 5291.750 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*)	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*)	-70	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

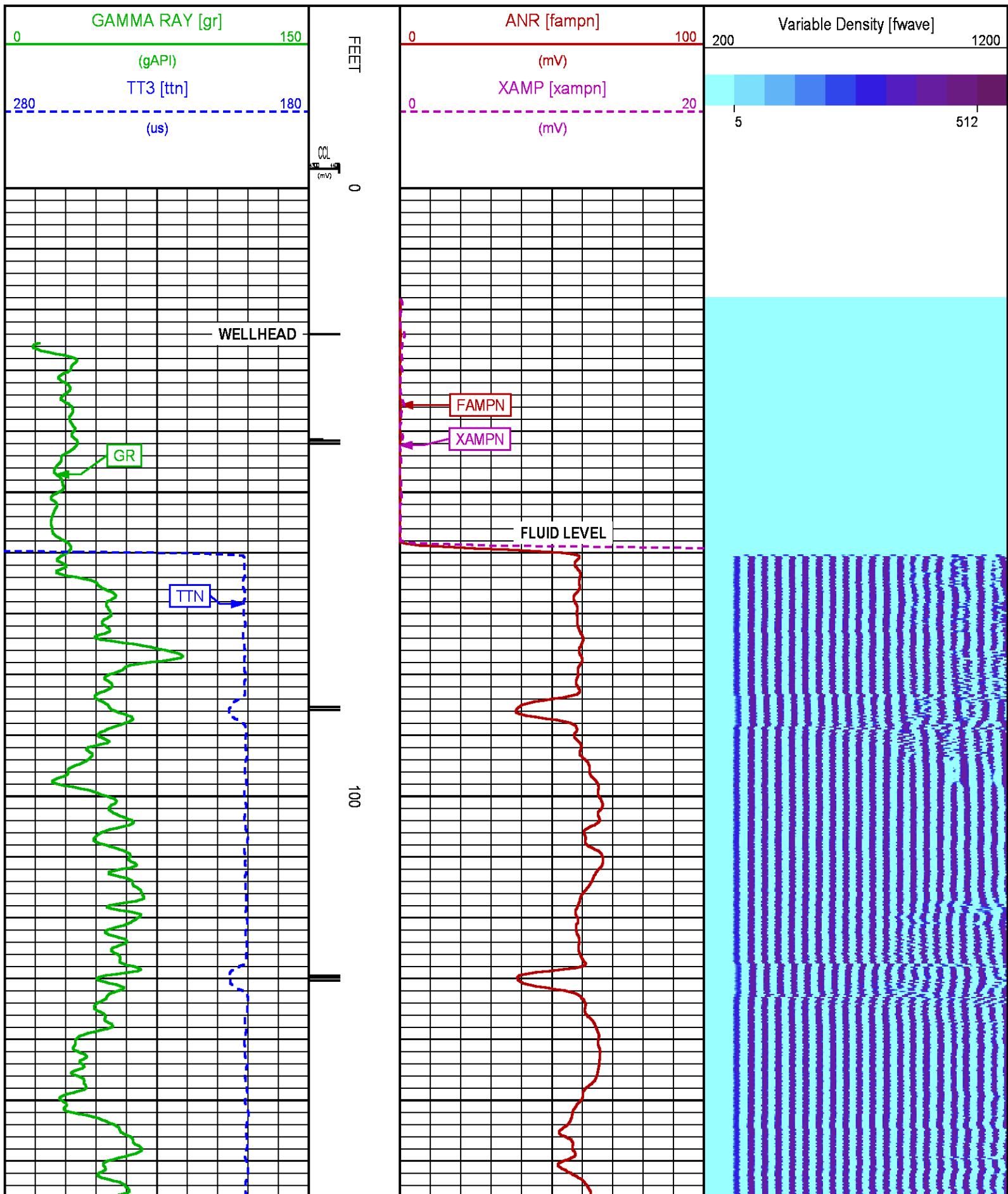
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Nov 20 14:50:36 2014	CASING COLLAR LOCATOR
F1:FAMPN	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Nov 20 14:50:36 2014	FAR WAVE FORM
F1:GR	Nov 20 14:50:36 2014	GAMMA RAY
F1:TTN	Nov 20 14:50:36 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

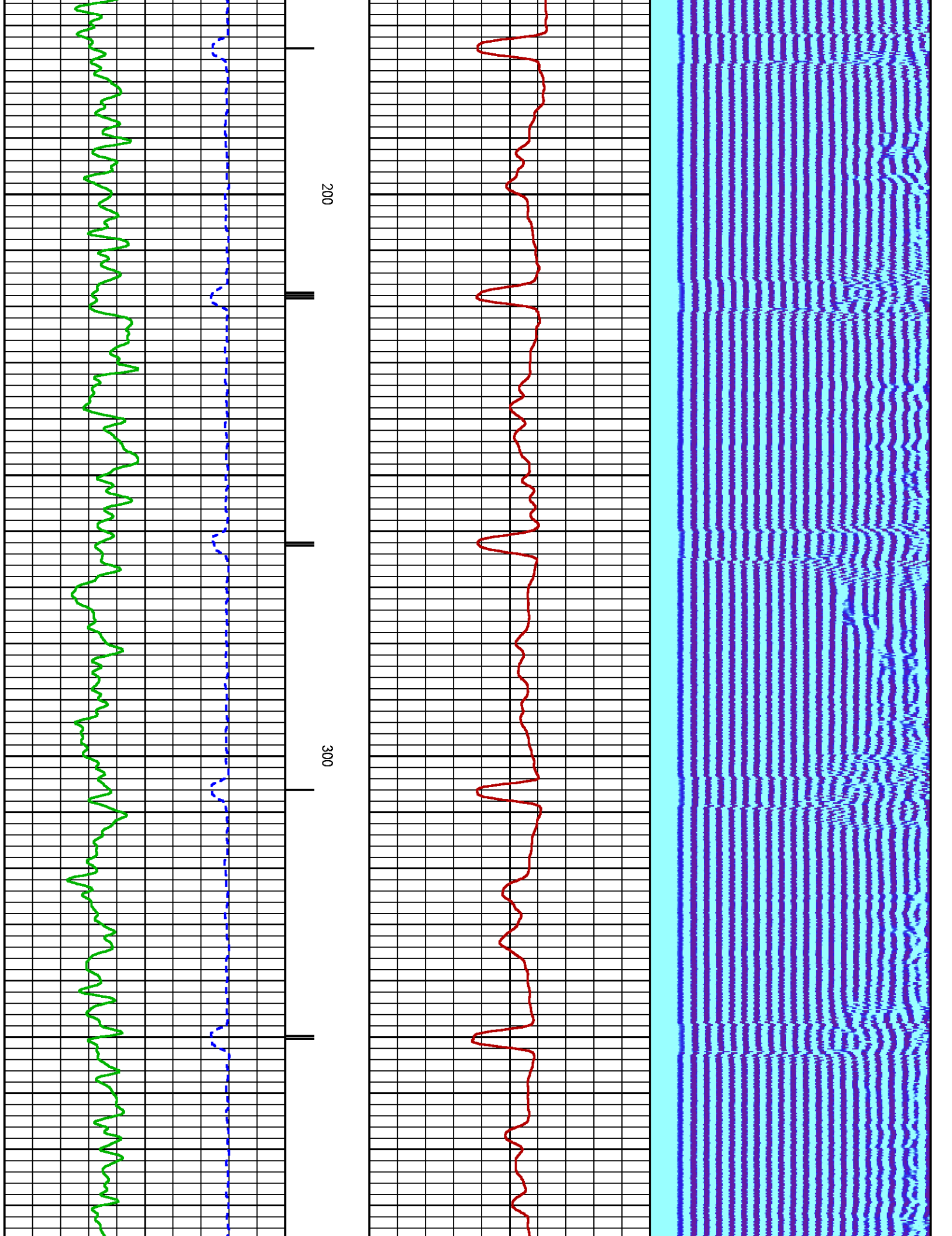
CURVE MEASURE POINT OFFSET

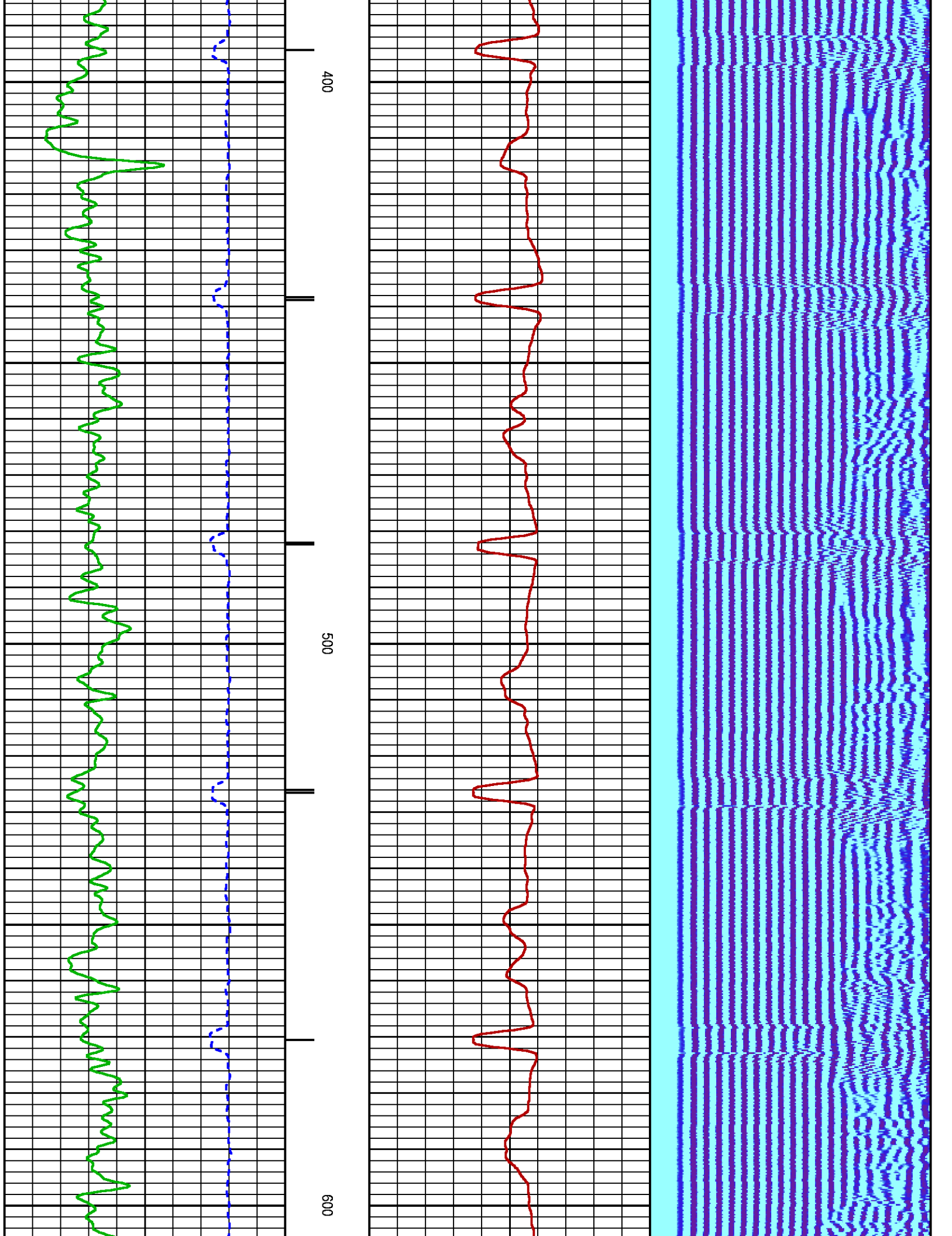
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	8.50	GR	6.50	XAMPN	13.75		
FAMPN	13.75	TTN	13.75				

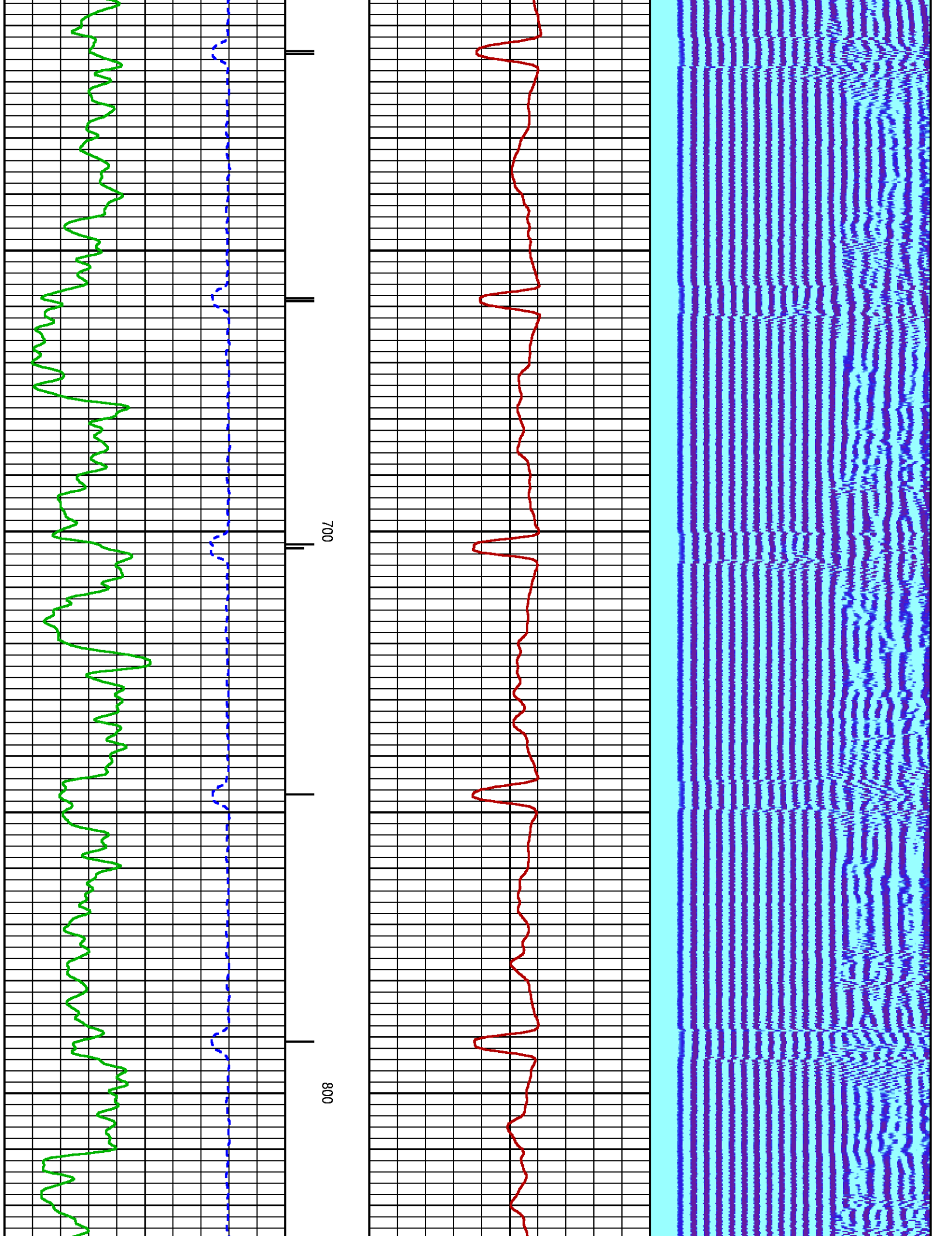
Presentation : HL6670:/dat1a/CH092567/SG342CBL_MAIN_PRIMARY.fvpdf [5"/100' Scale]
 Plot Interval : 0 - 5286 Feet

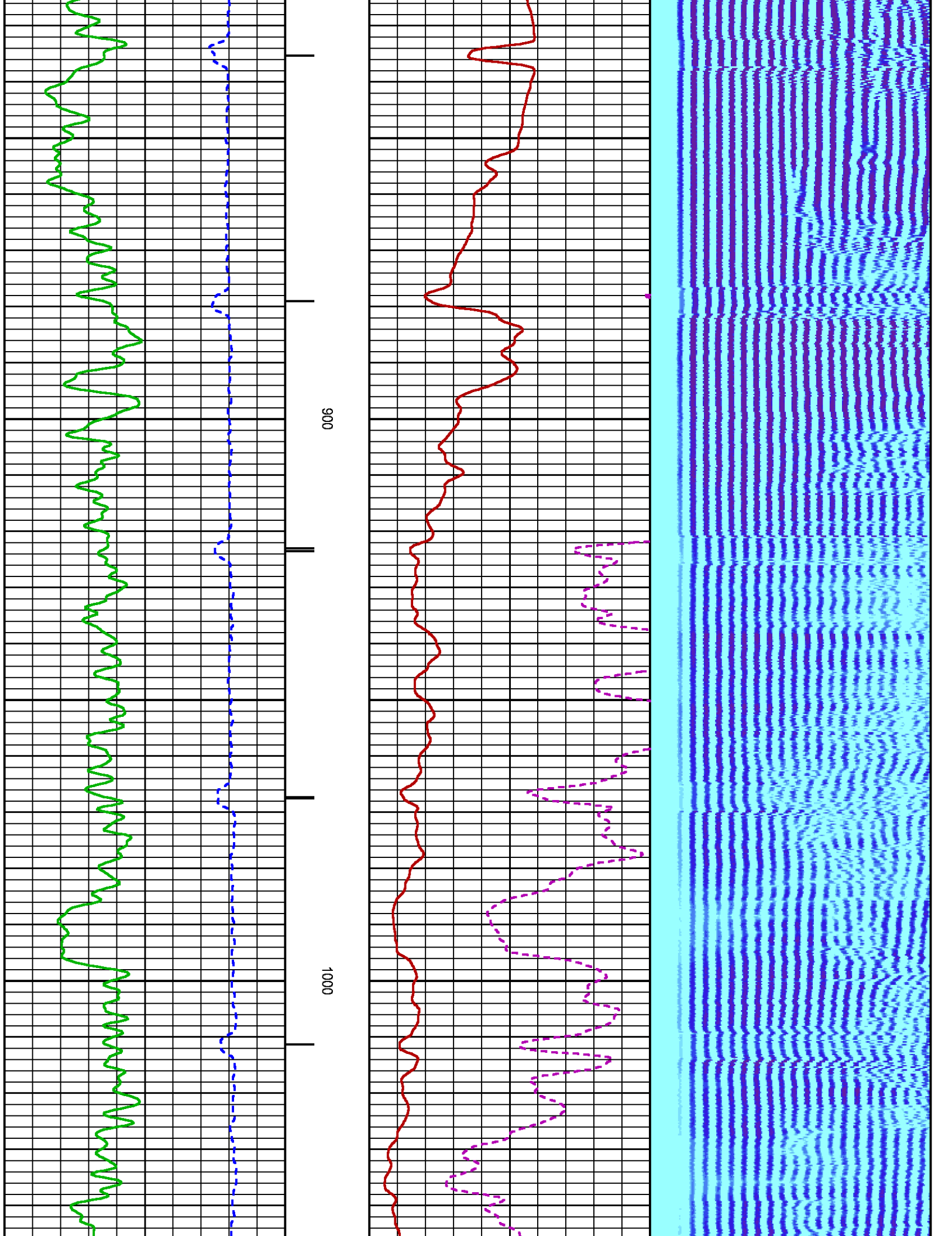
Data File 1 : F1 : HL6670:/dat1a/CH092567/SG342CBL_MAIN.xtf
Created On : Nov 20 14:50:36 2014
Company : WPX ENERGY
Well : FEDERAL SG 342-28
Field : GRAND VALLEY
File Interval : 17 - 5287 Feet
OCT : n012e

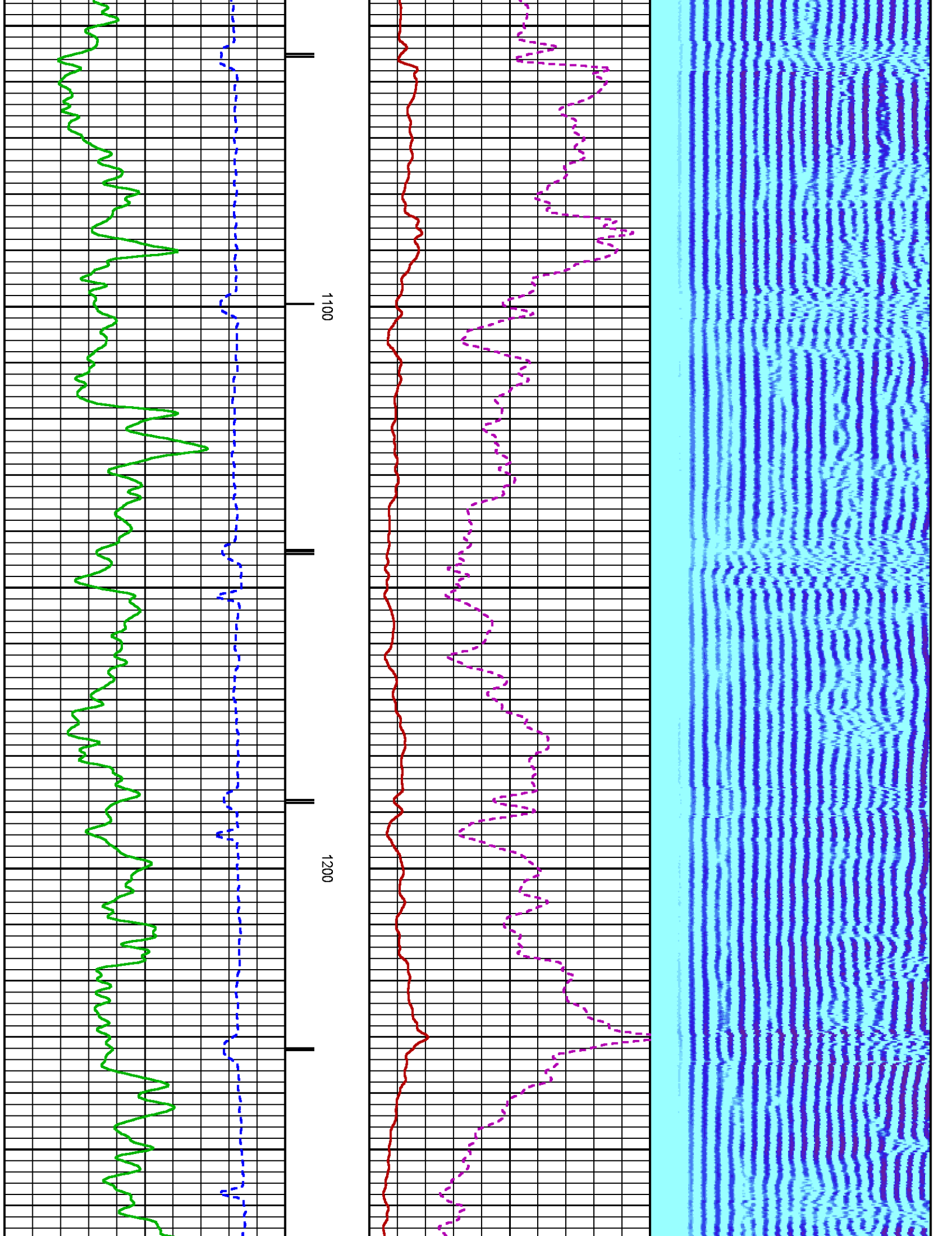


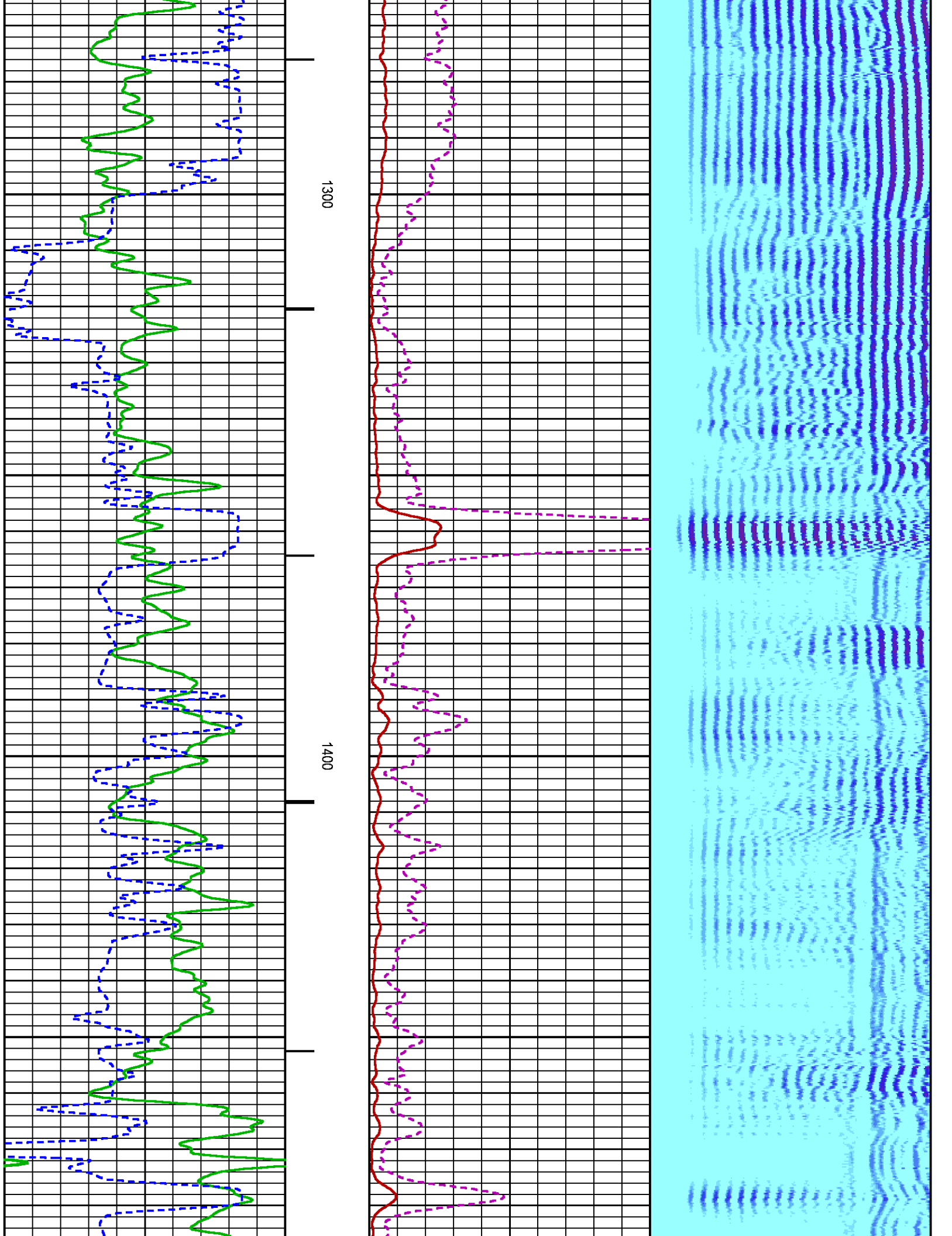


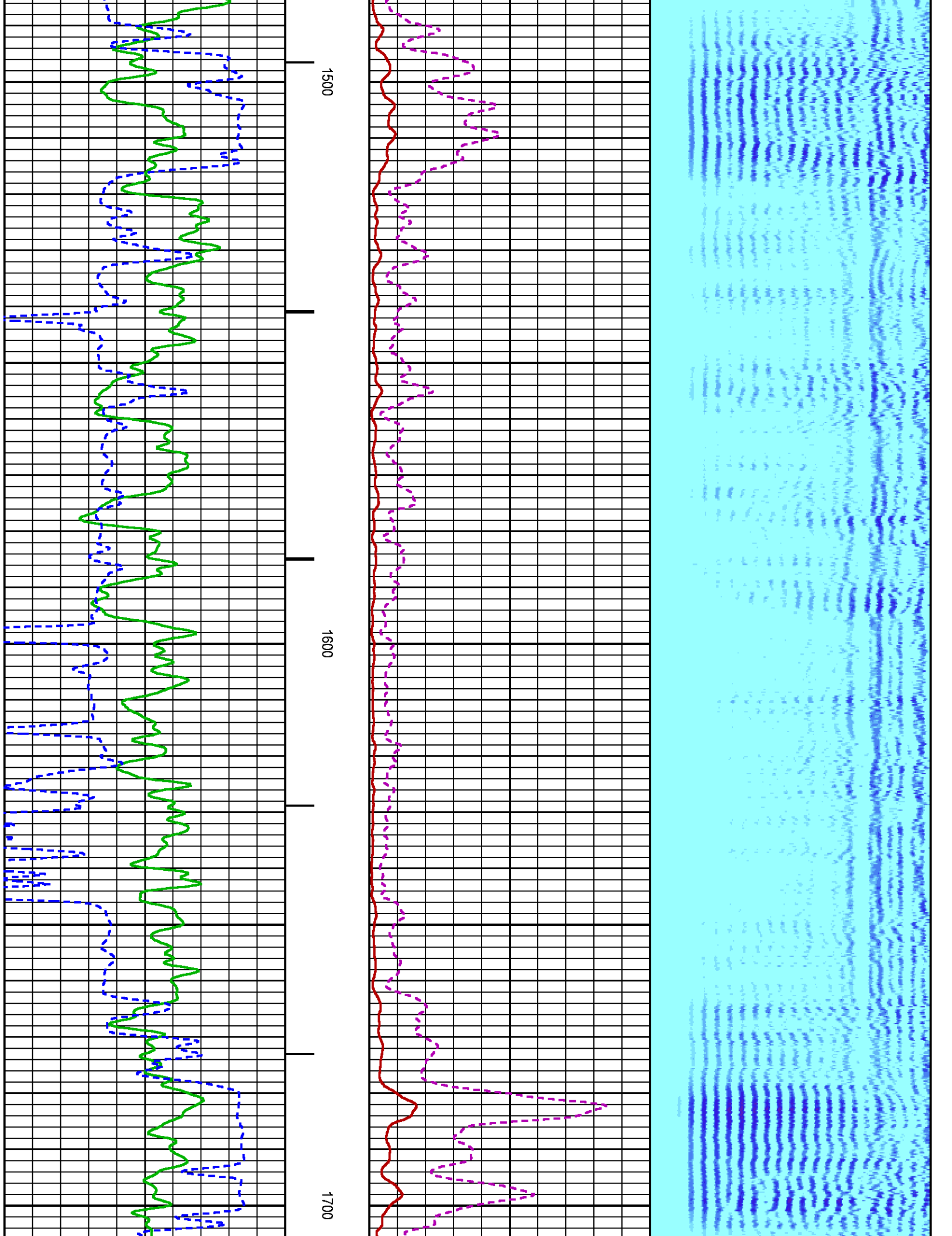


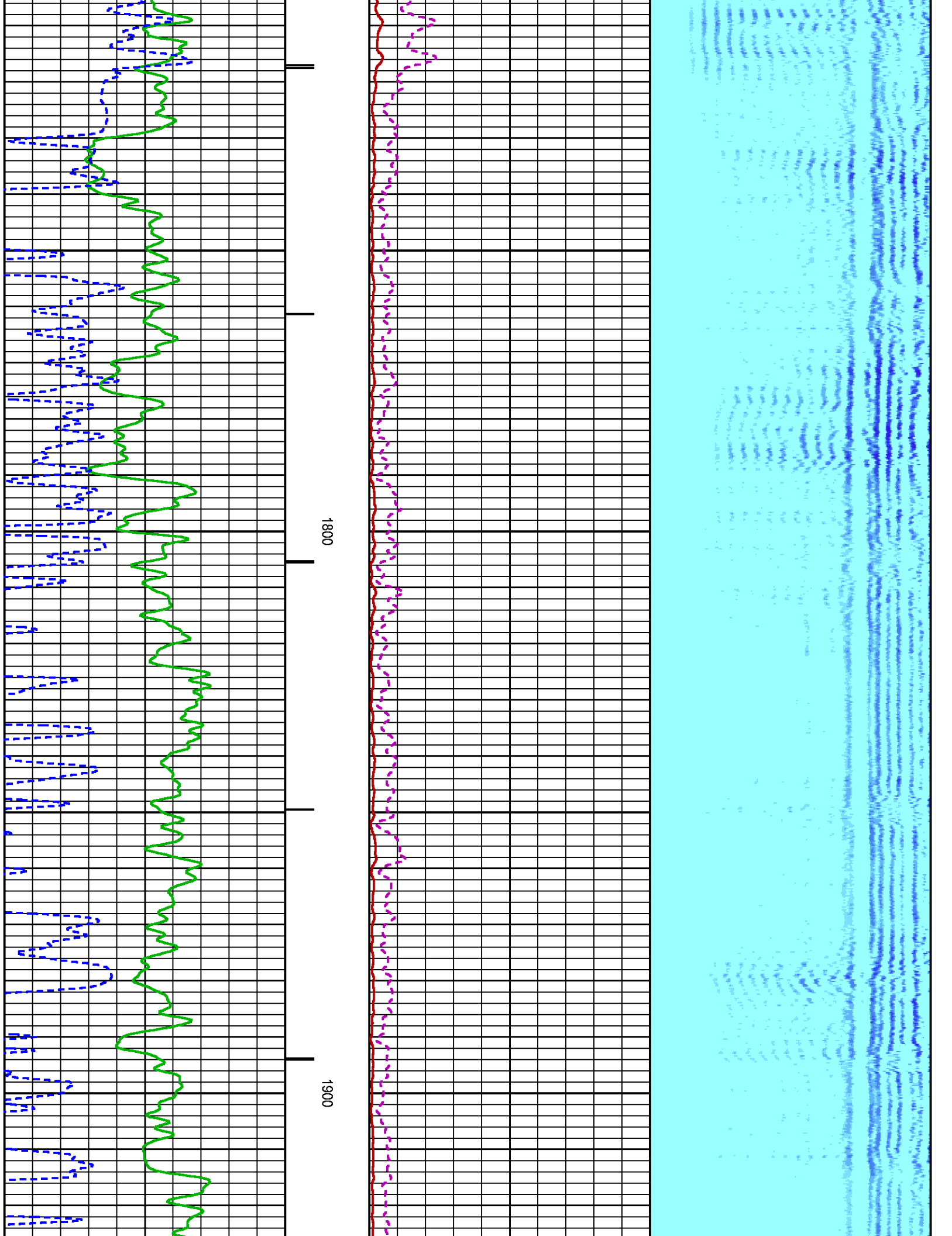


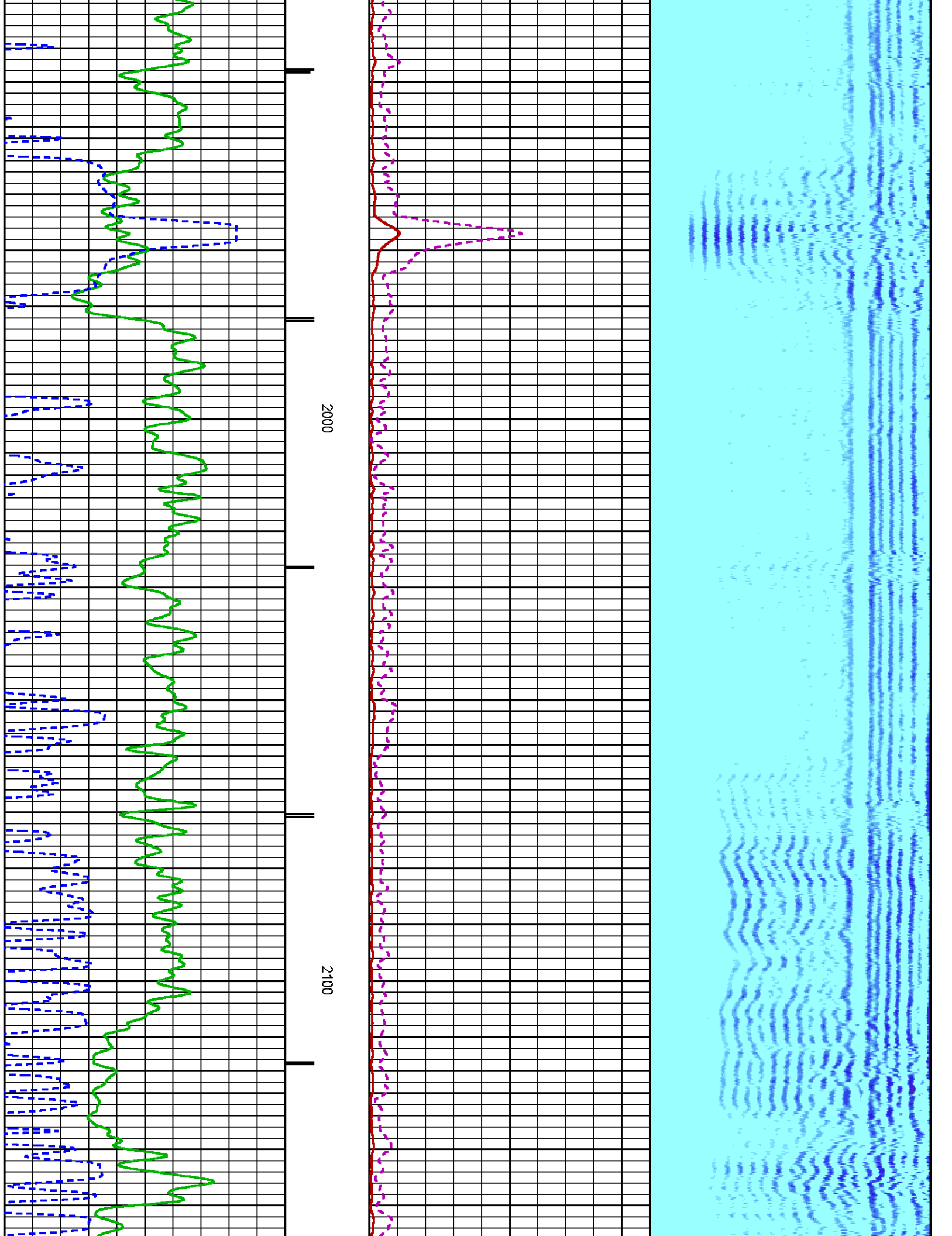


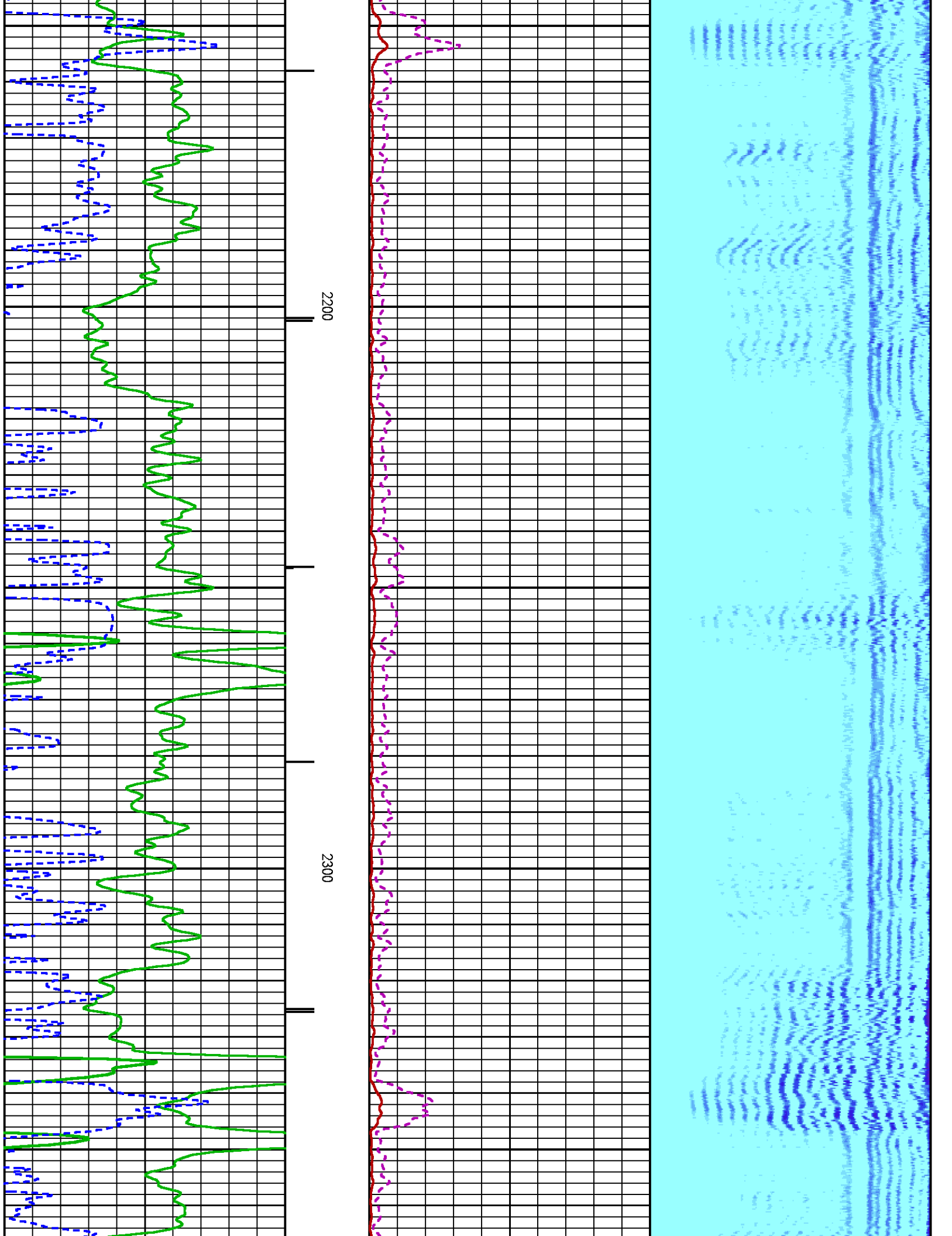


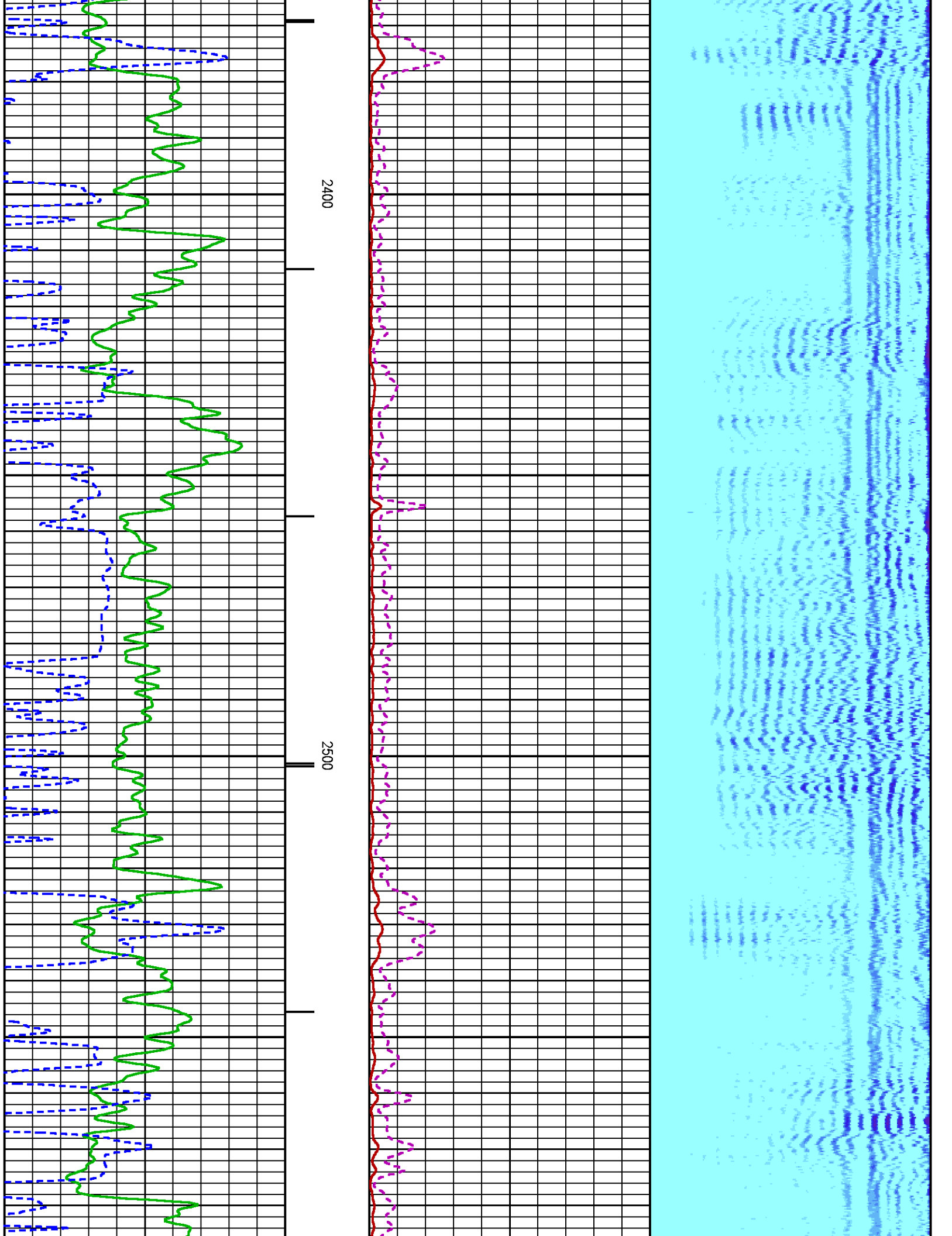


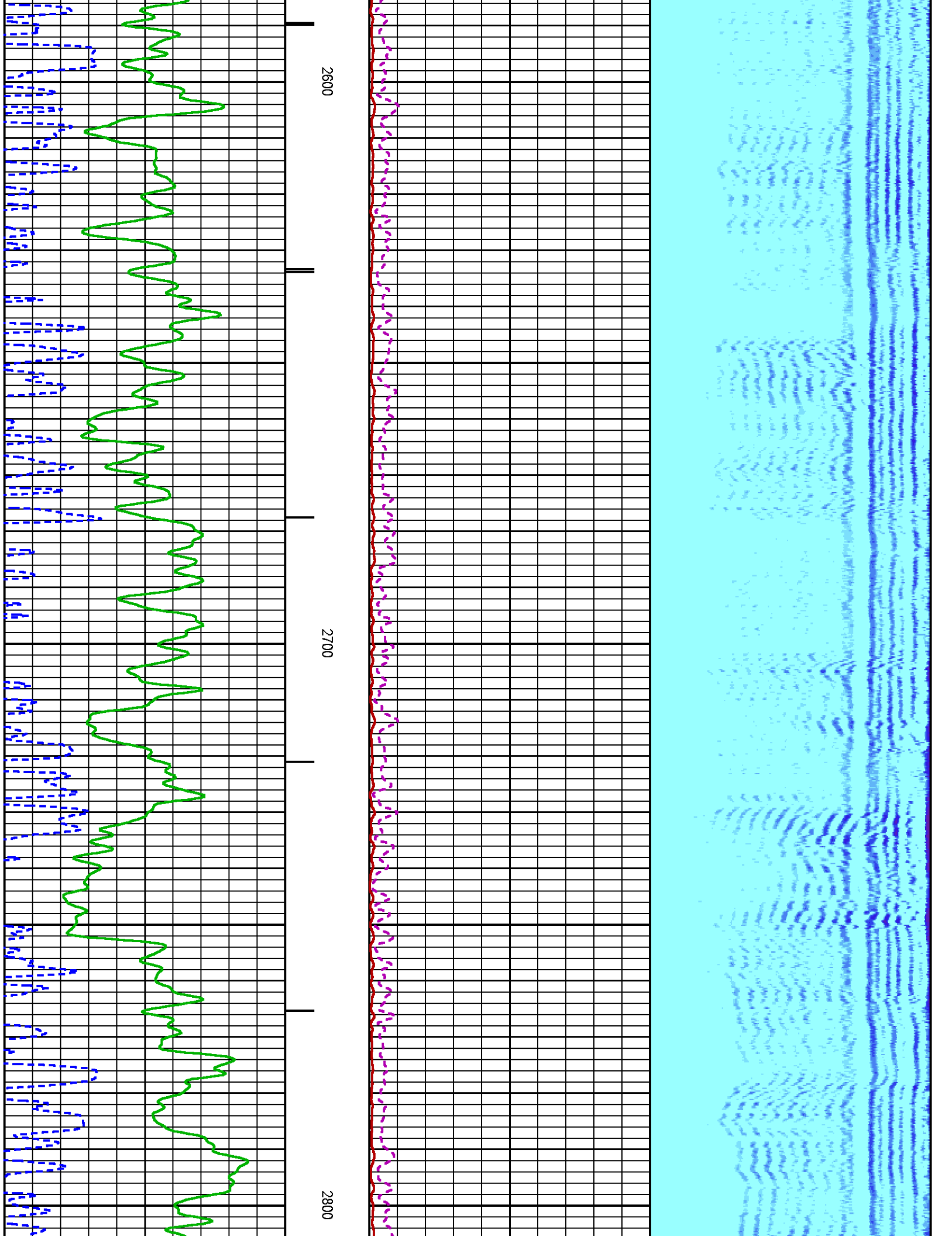


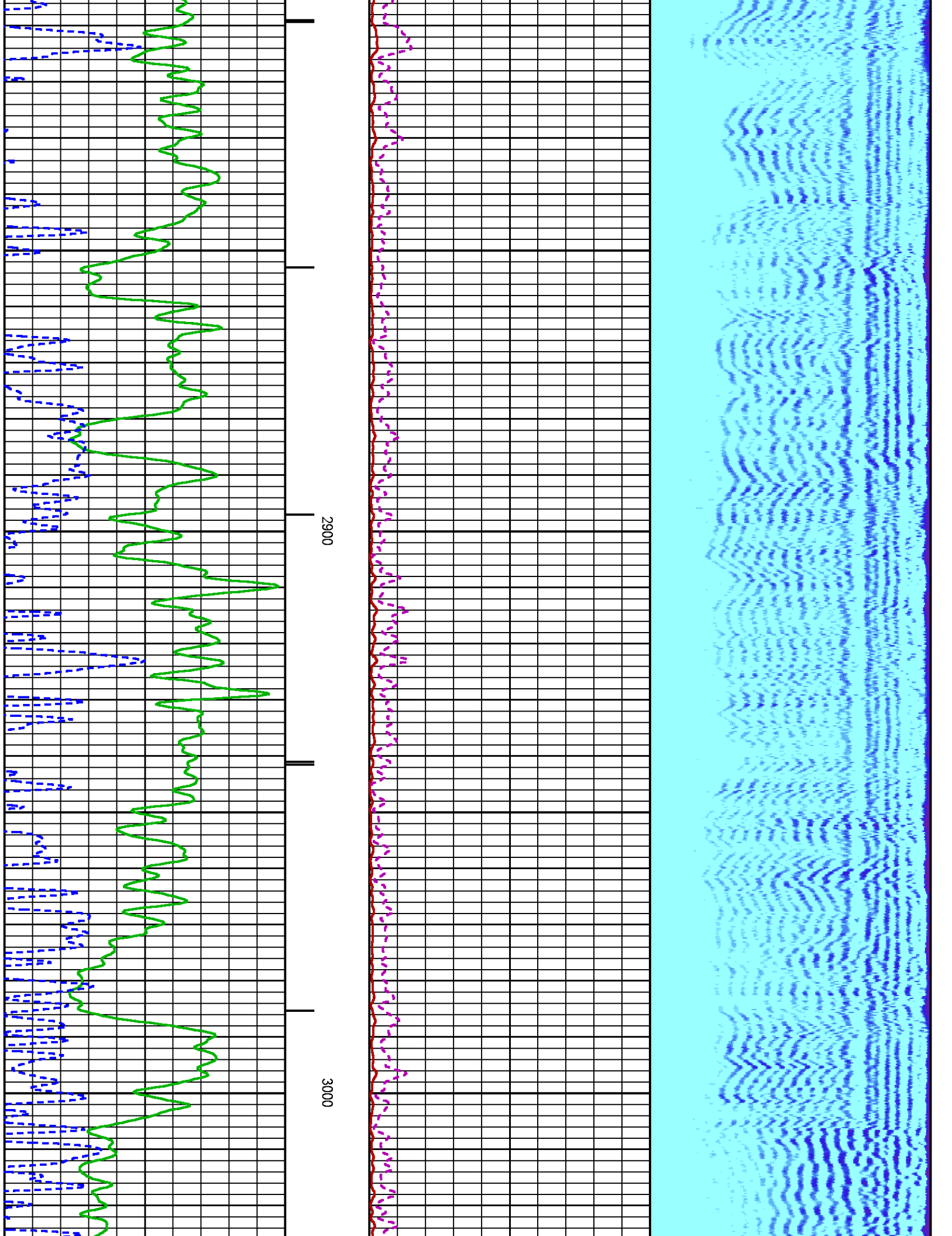


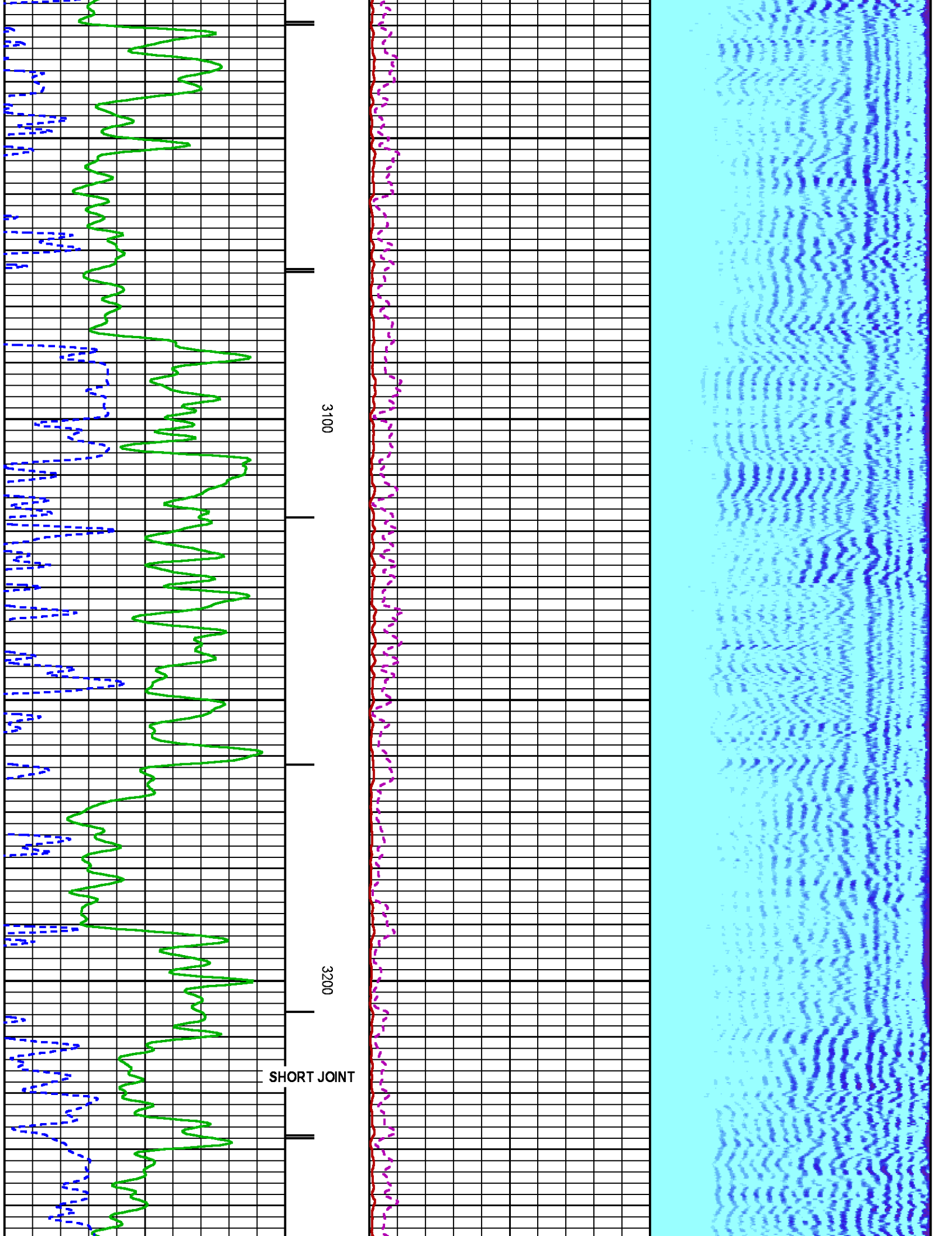


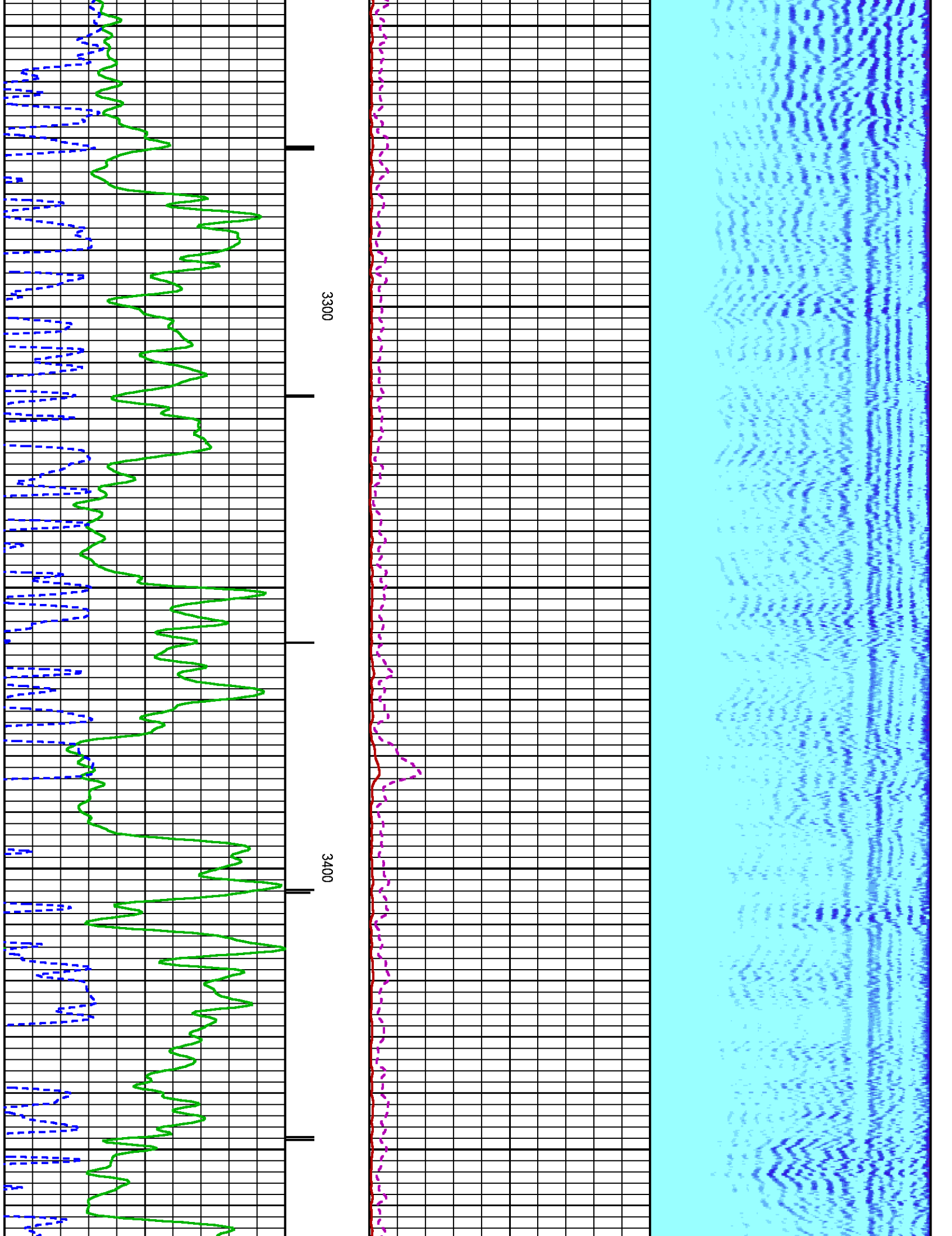


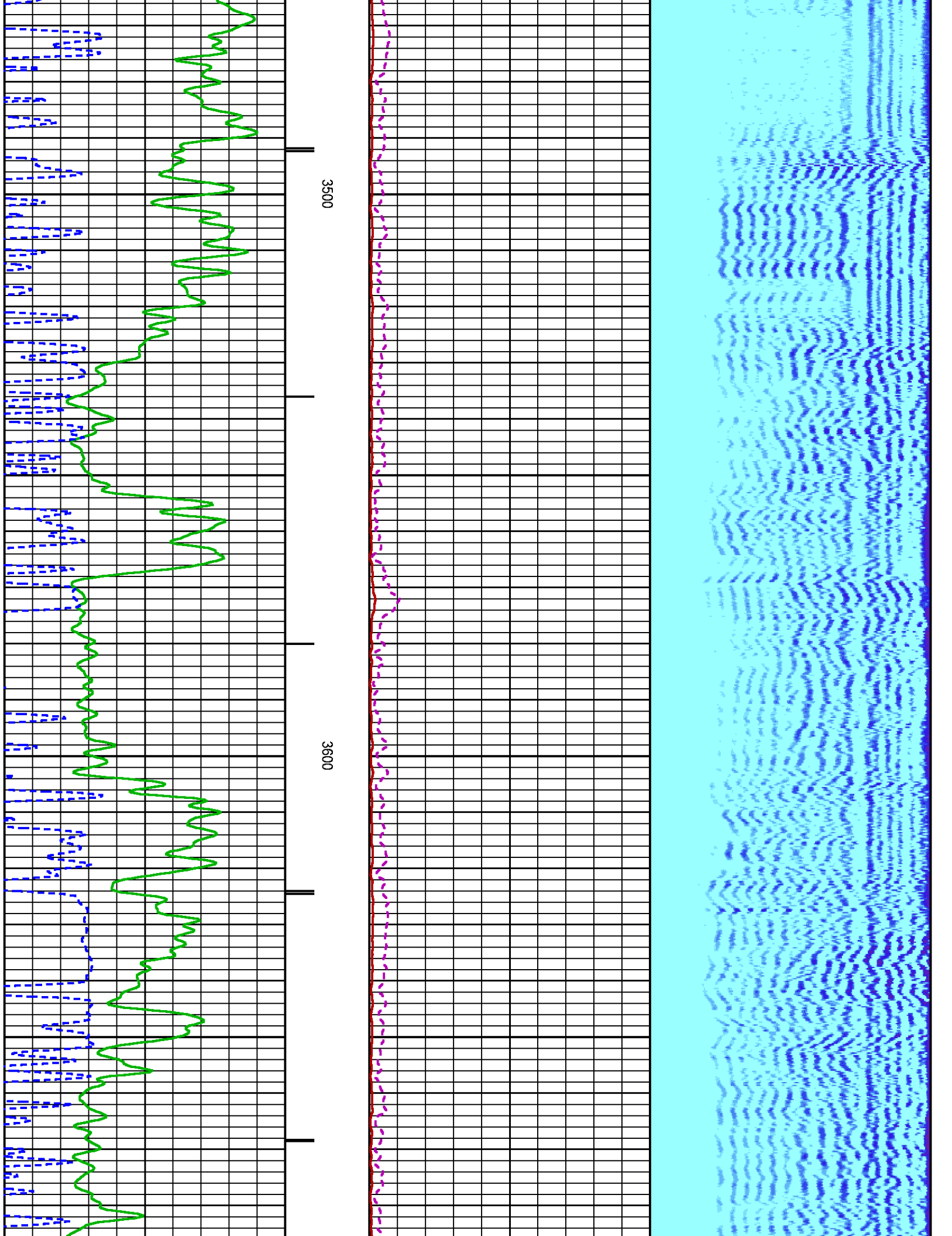


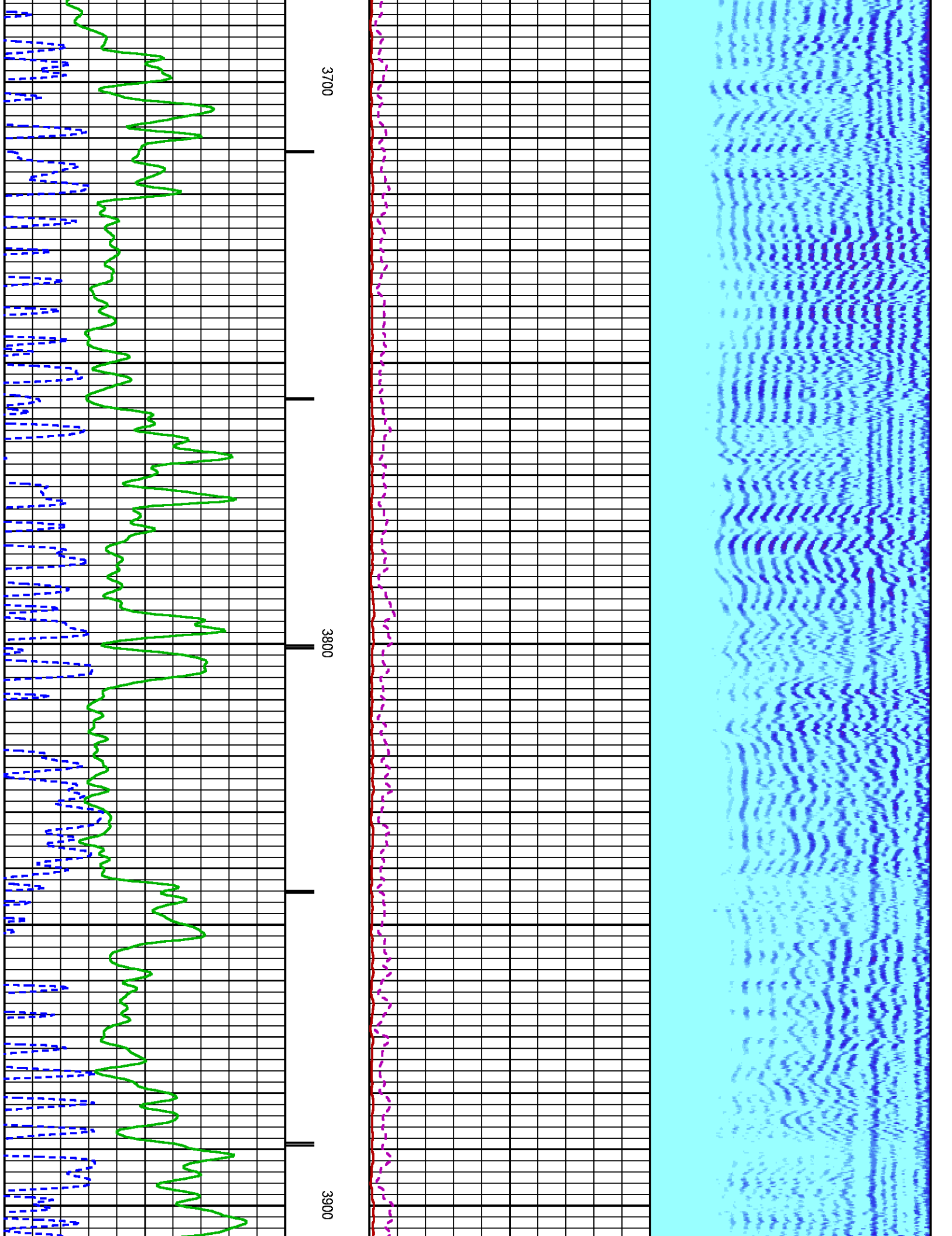


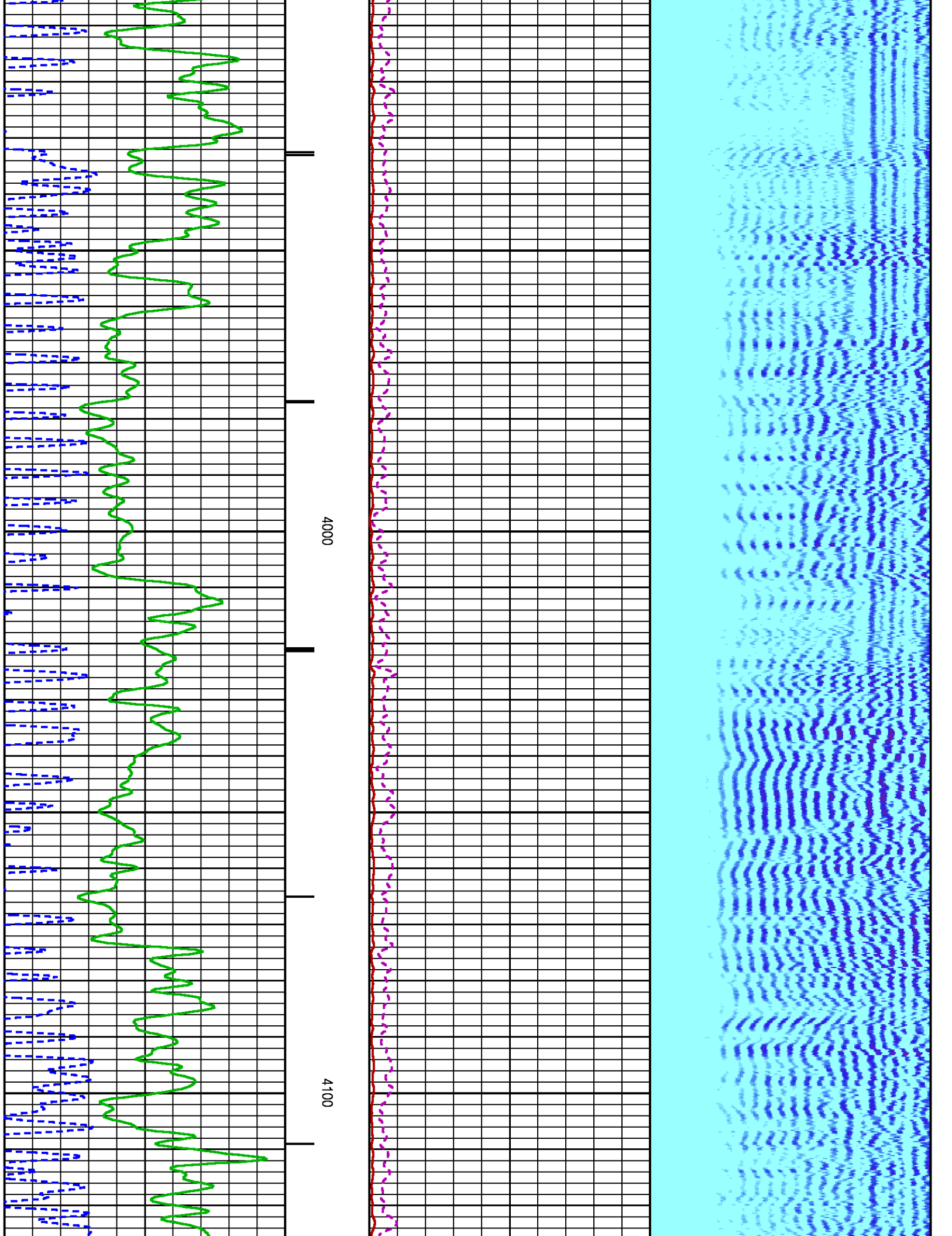


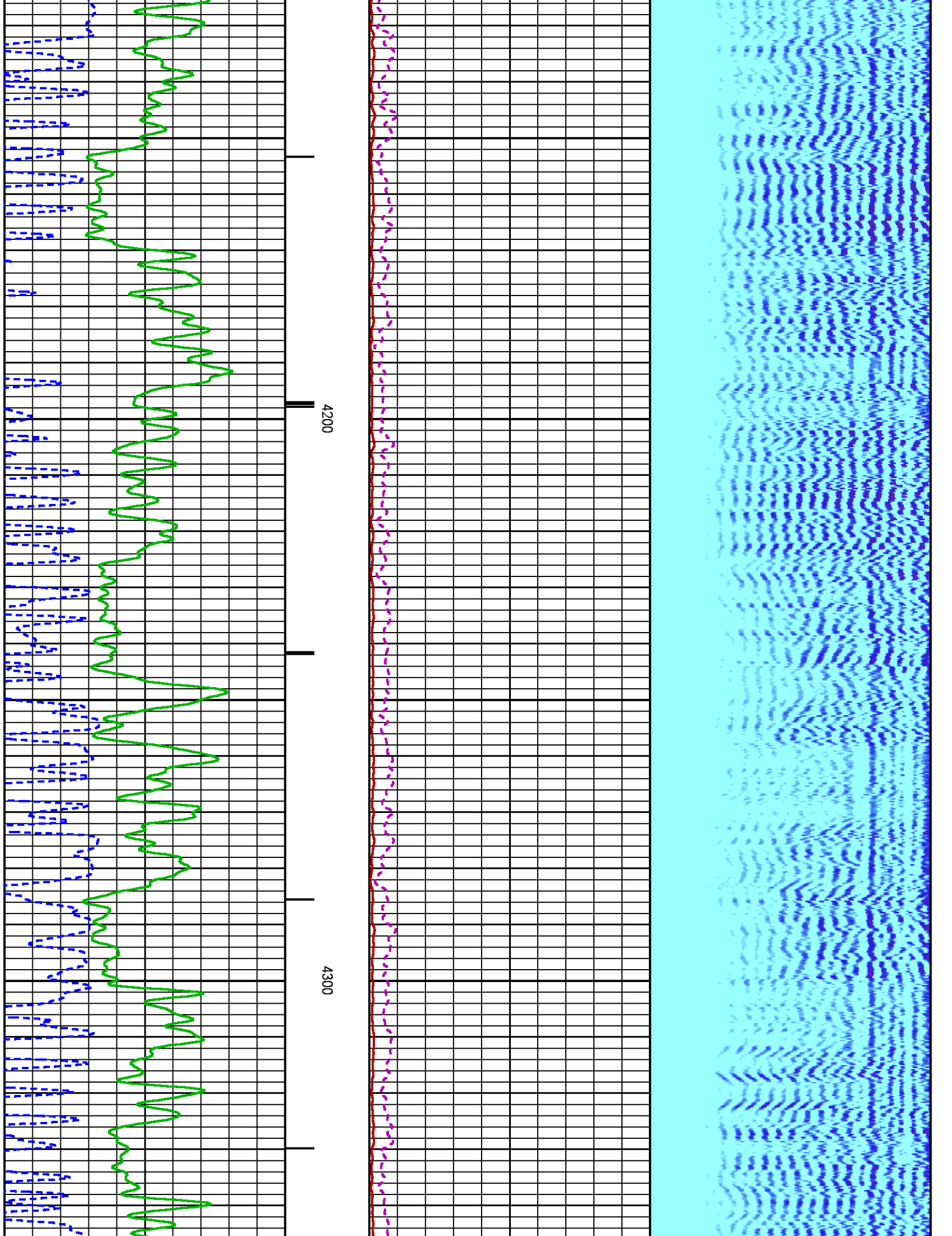


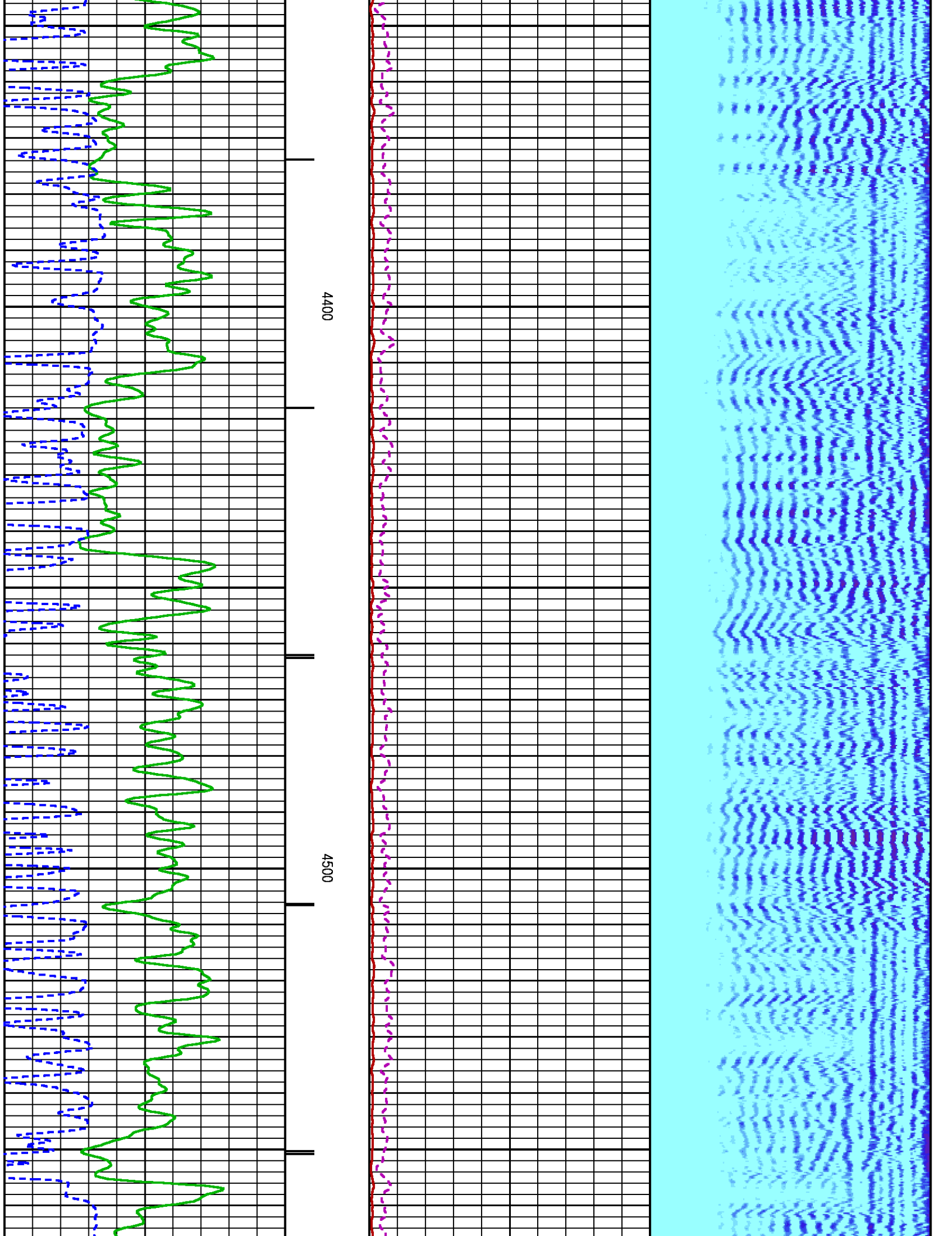


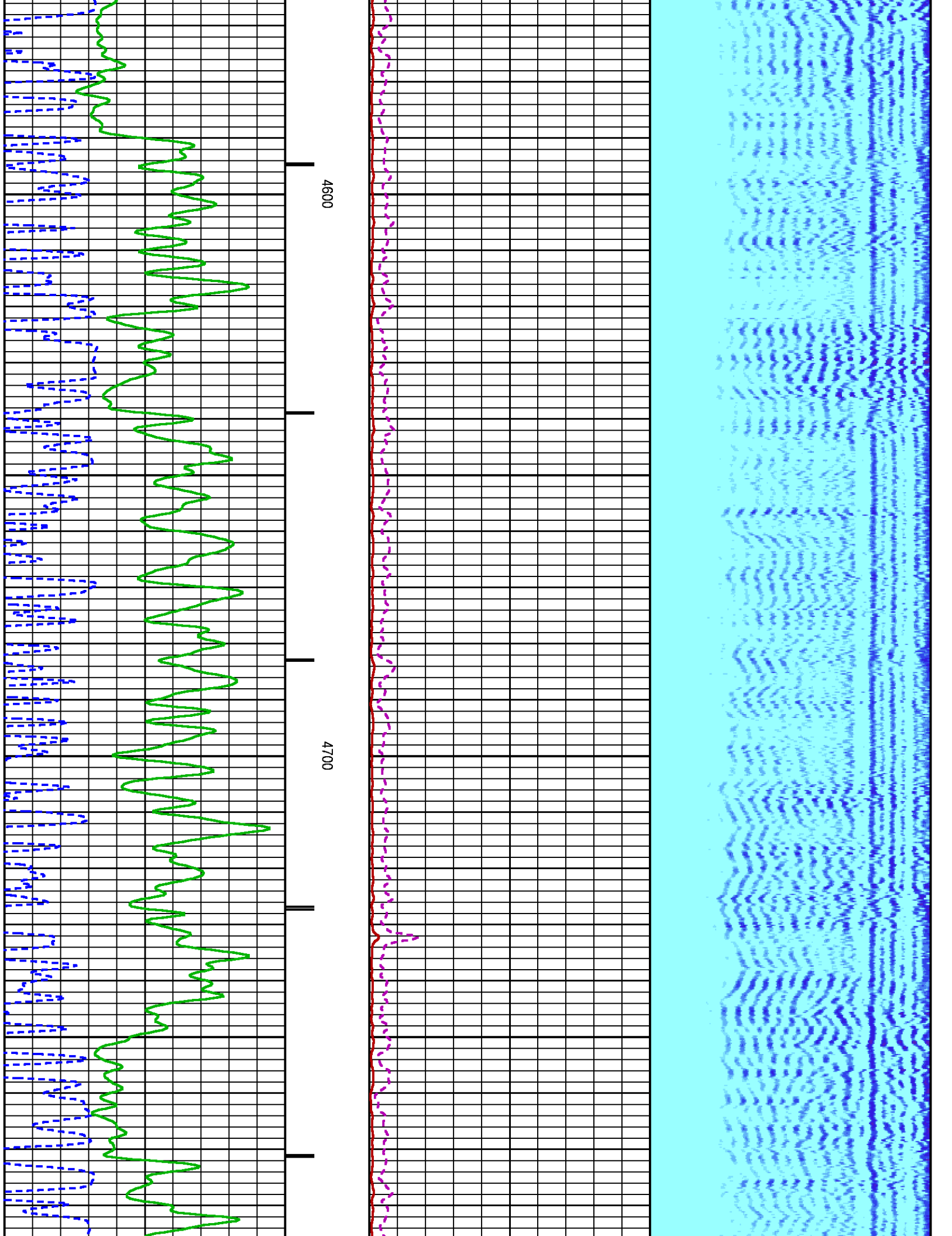


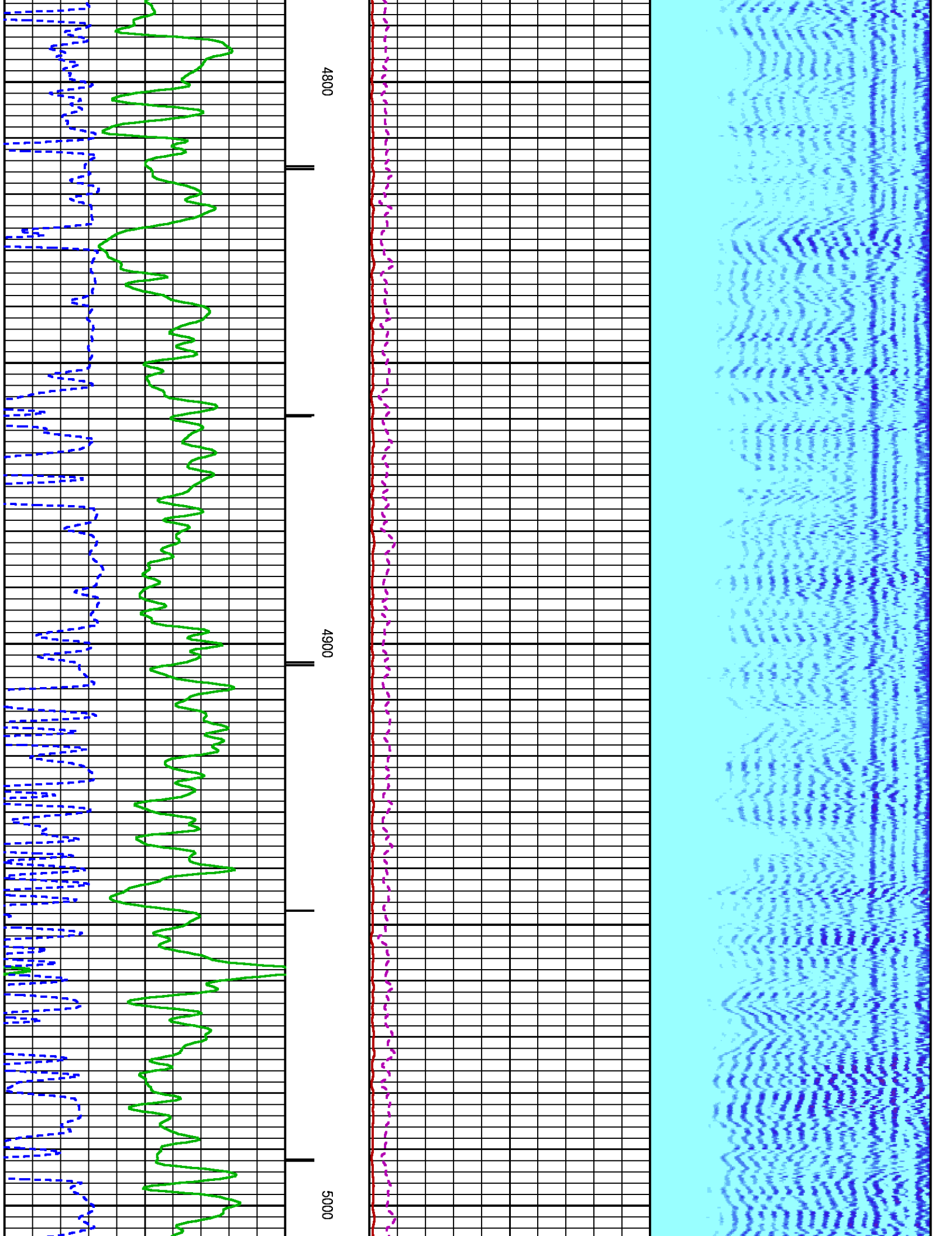


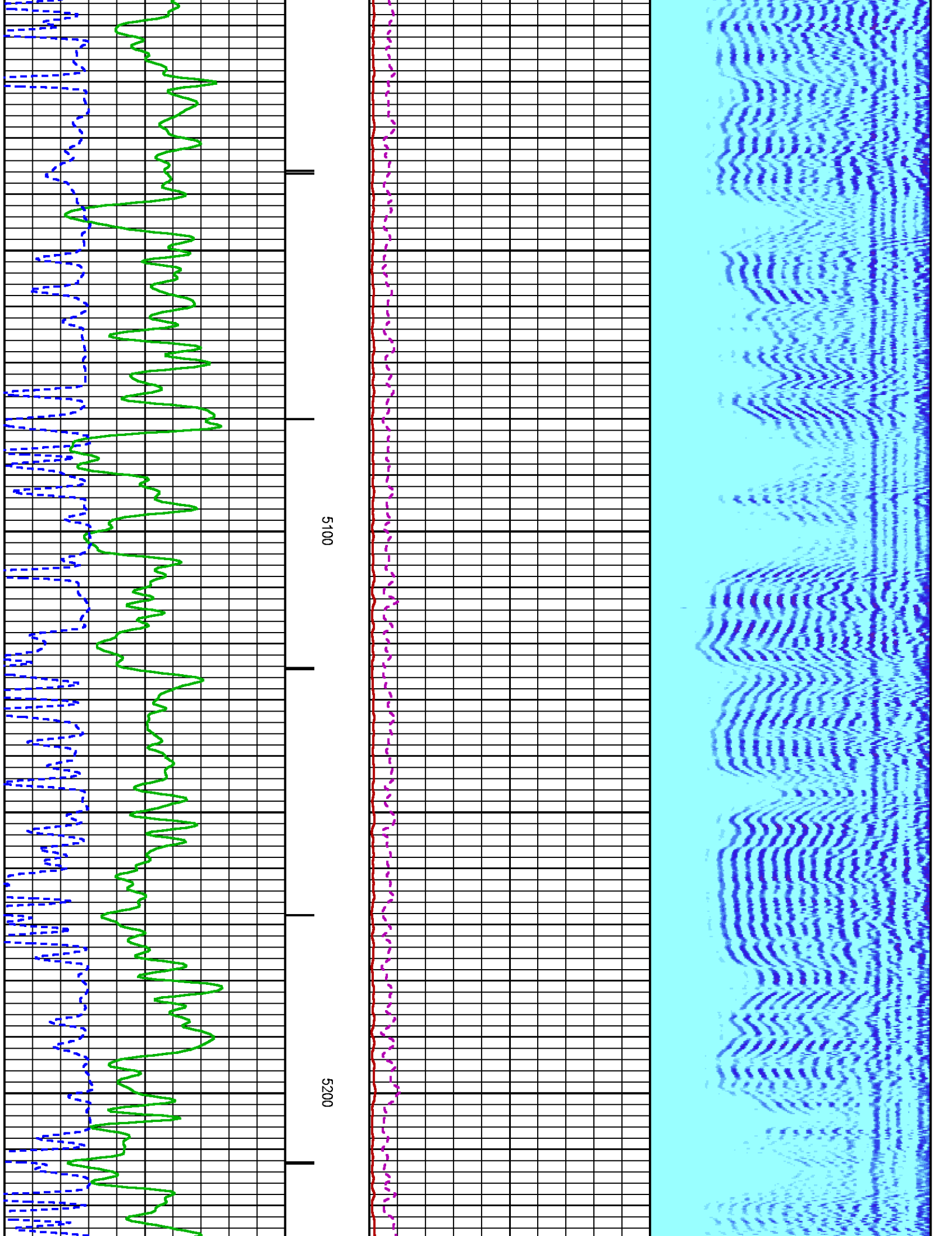


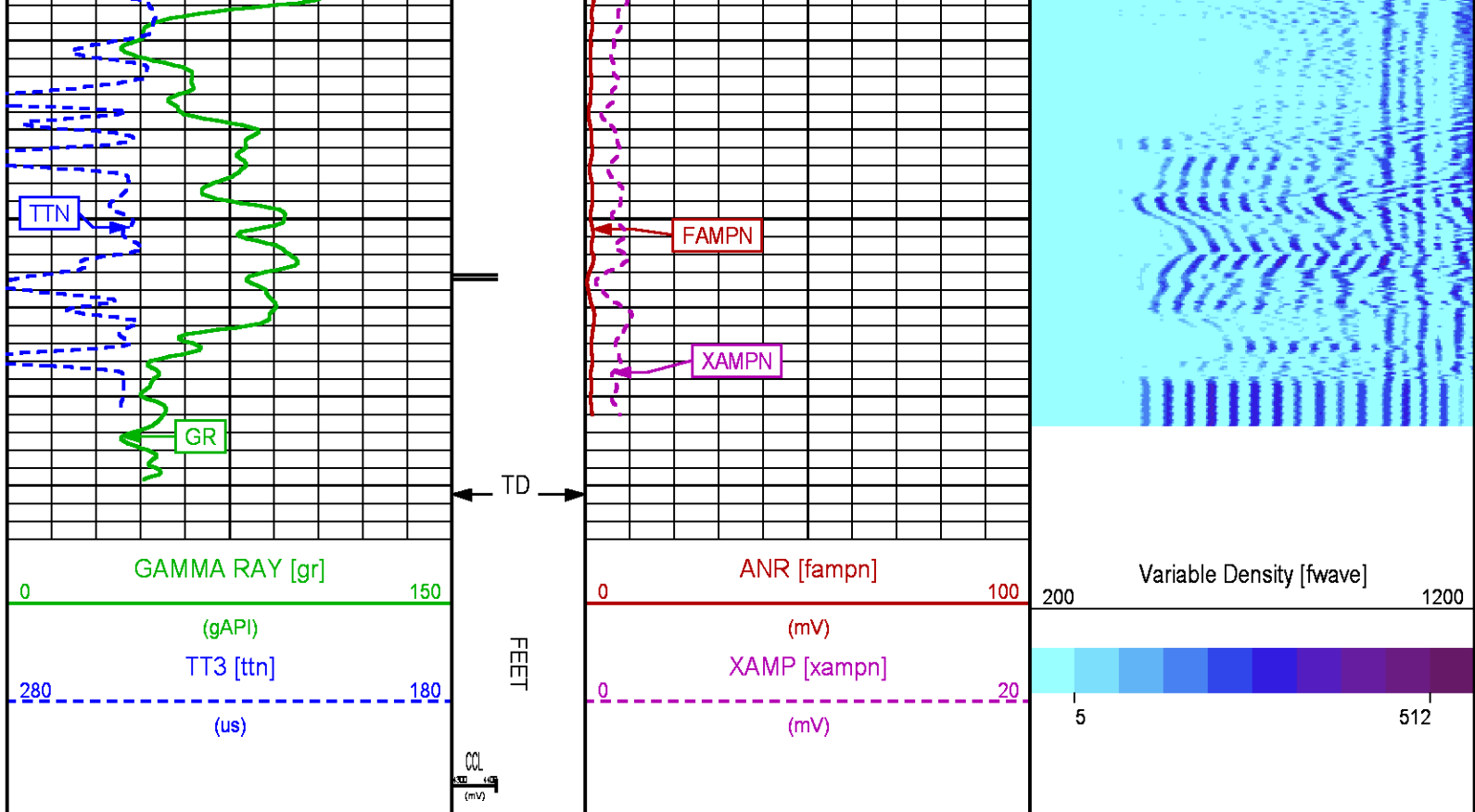












SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
 Updates: 1 Patches: 4

Plotted: Thu Nov 20 23:16:34 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH092567/n012e02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 35.750 ft BOTTOM DEPTH: 5291.750 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 (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*)	-70	us	"	"
	TOOL DELAY (str2*)	-70	us	"	"
	TOOL DELAY (str3*)	-70	us	"	"
	TOOL DELAY (str4*)	-70	us	"	"
	TOOL DELAY (str5*)	-70	us	"	"
	TOOL DELAY (str6*)	-70	us	"	"
	TOOL DELAY (str7*)	-70	us	"	"
	TOOL DELAY (str8*)	-70	us	"	"
	TOOL DELAY (strn*)	-70	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	"	"
	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	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Nov 20 14:50:36 2014	CASING COLLAR LOCATOR
F1:FAMPN	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Nov 20 14:50:36 2014	FAR WAVE FORM
F1:GR	Nov 20 14:50:36 2014	GAMMA RAY
F1:PBMAP	Nov 20 14:50:36 2014	PERCENT BOND CEMENT MAP
F1:TTN	Nov 20 14:50:36 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Nov 20 14:50:36 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

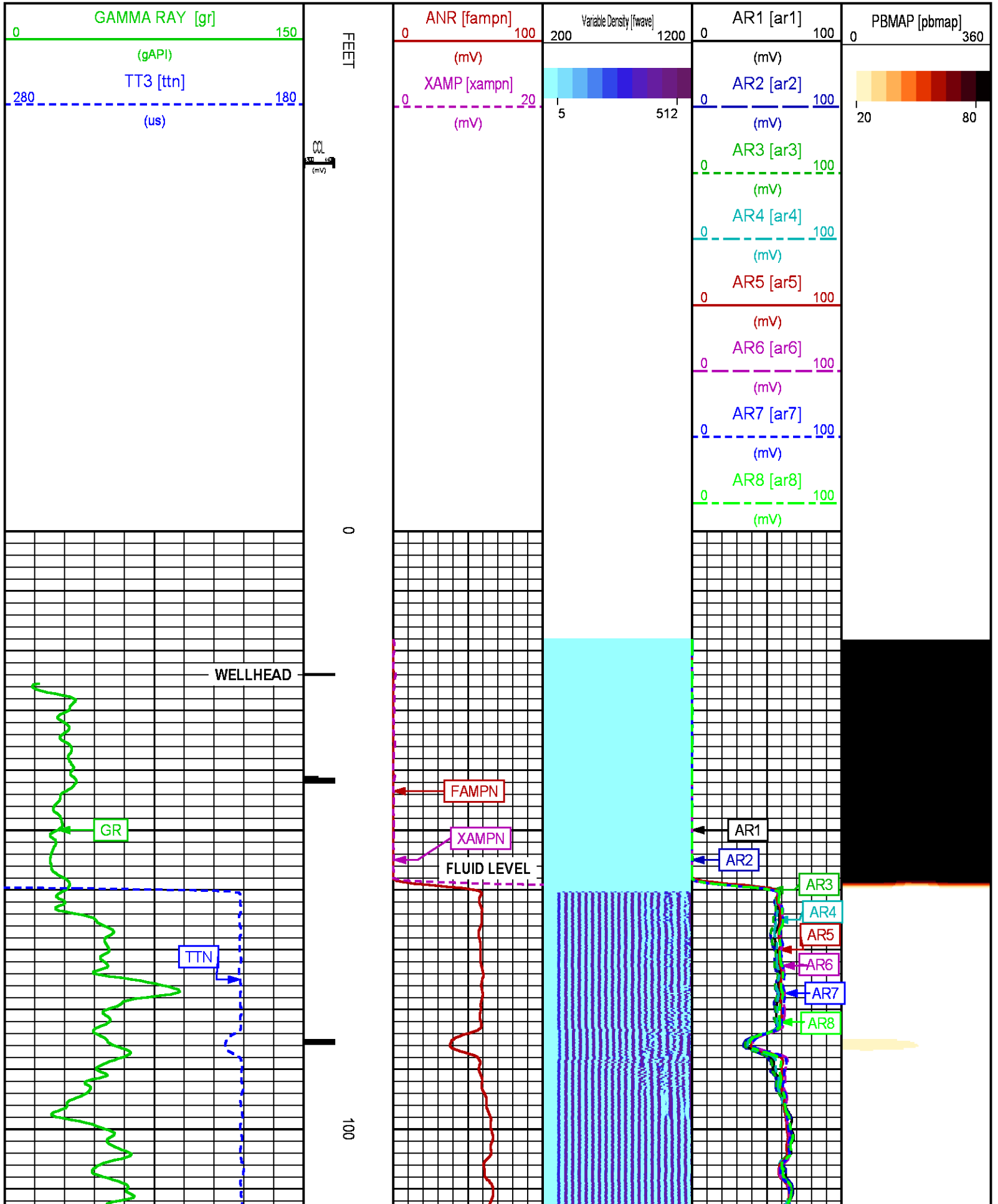
CURVE MEASURE POINT OFFSET

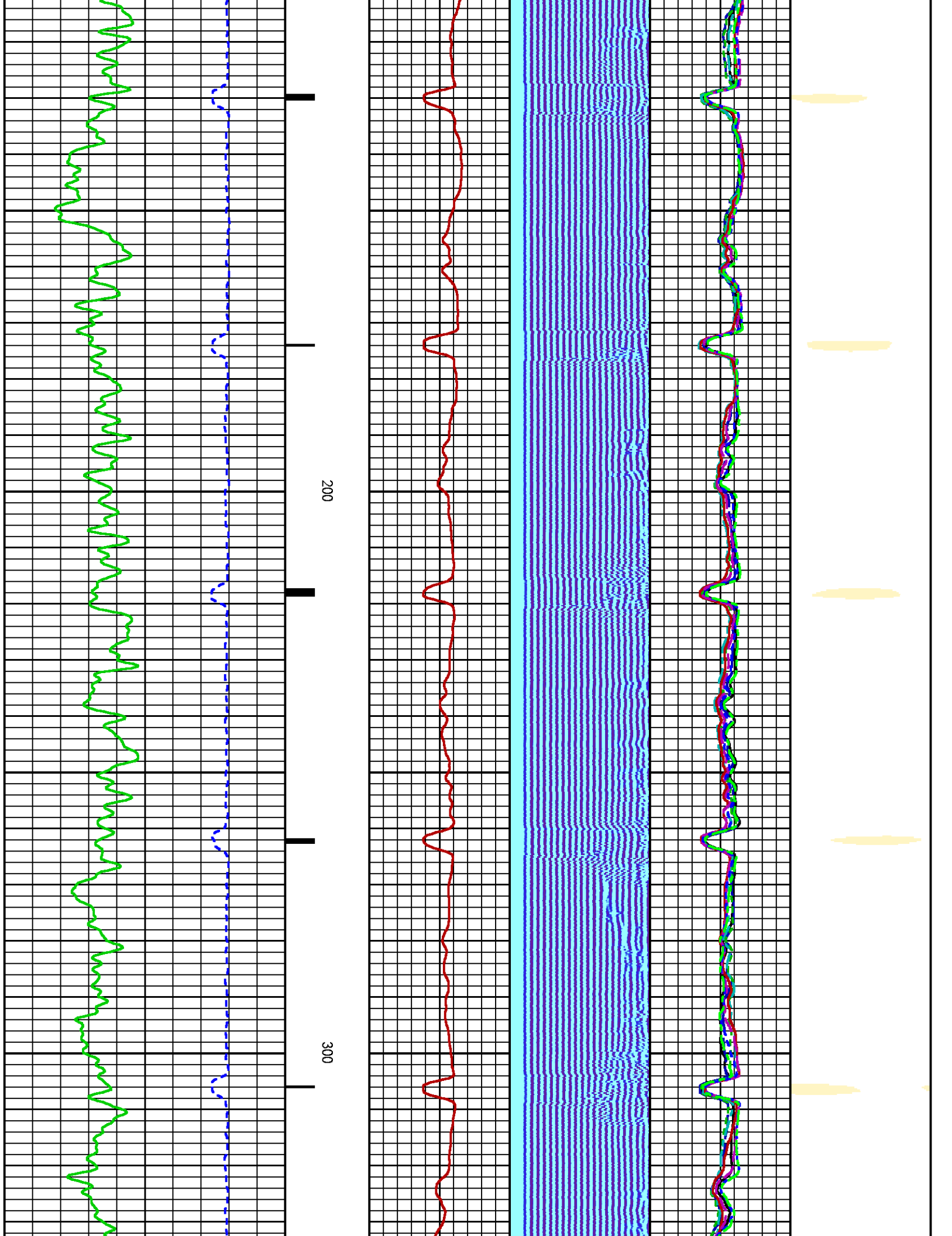
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50	XAMPN	13.75
AR2	13.75	AR6	13.75	FAMPN	13.75		
AR3	13.75	AR7	13.75	GR	6.50		
AR4	13.75	AR8	13.75	TTN	13.75		

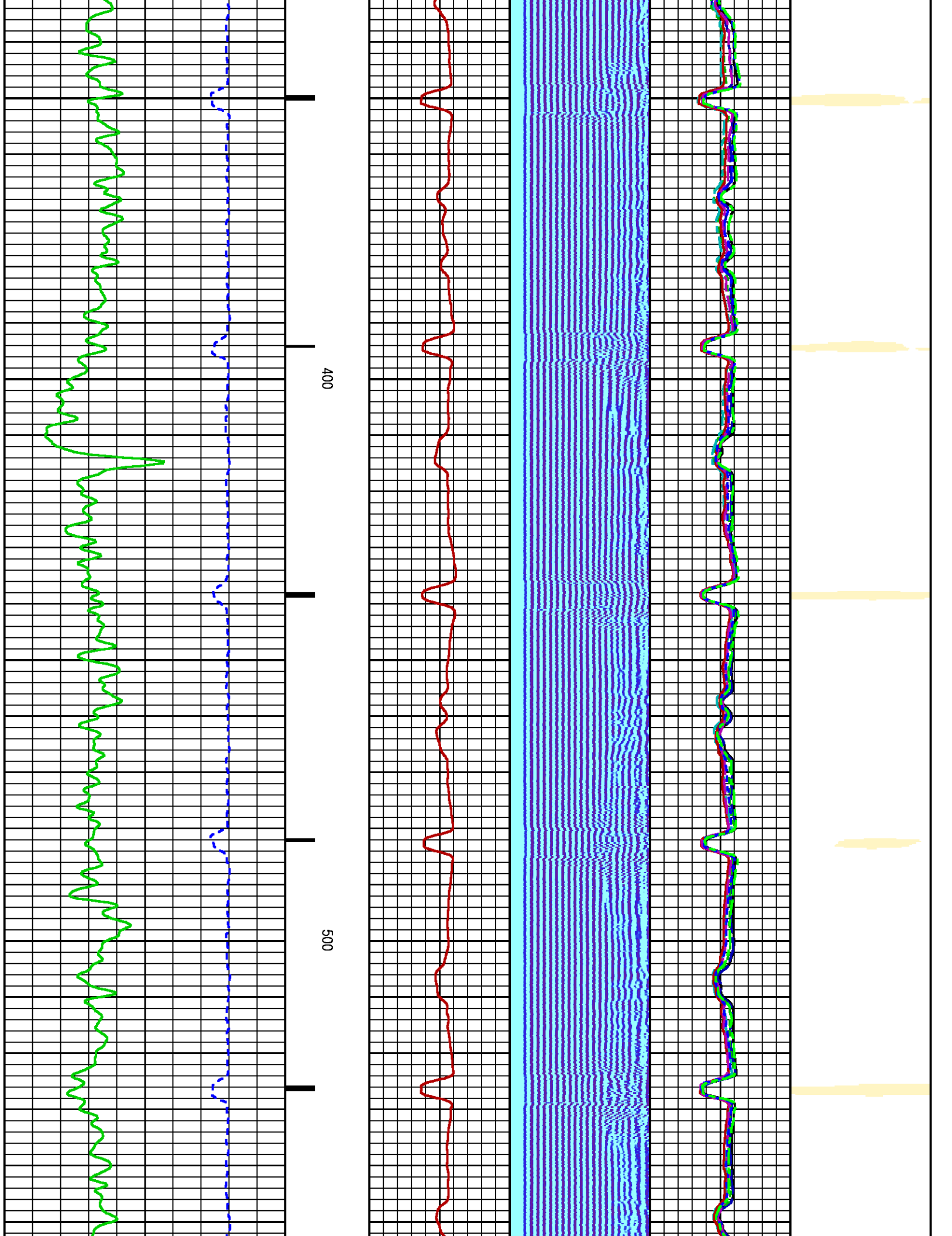
Presentation : HL6670:/dat1a/CH092567/342CBL_MAIN_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval : 0 - 5286 Feet

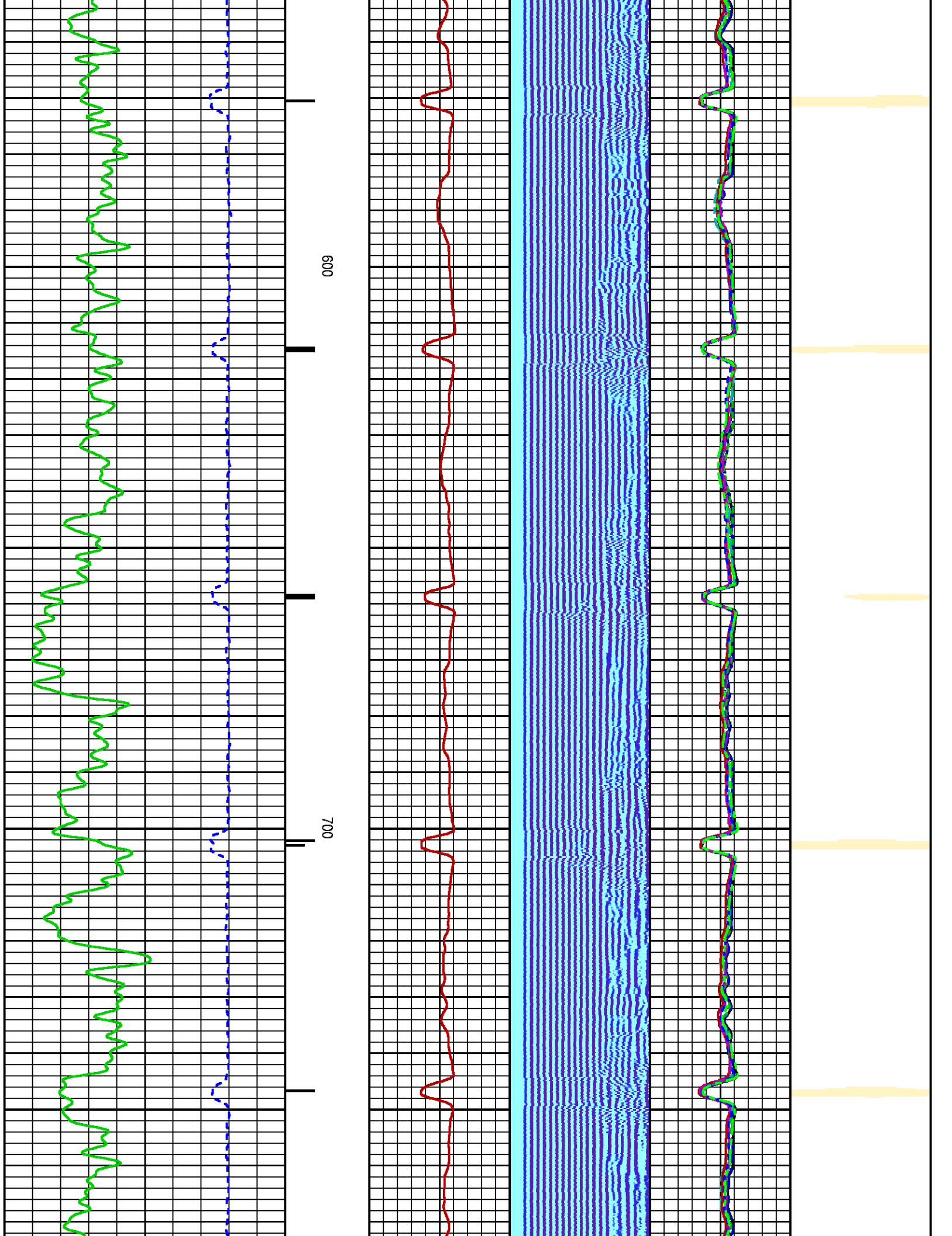
Data File 1 : F1 : HL6670:/dat1a/CH092567/SG342CBL_MAIN.xtf
Created On : Nov 20 14:50:36 2014

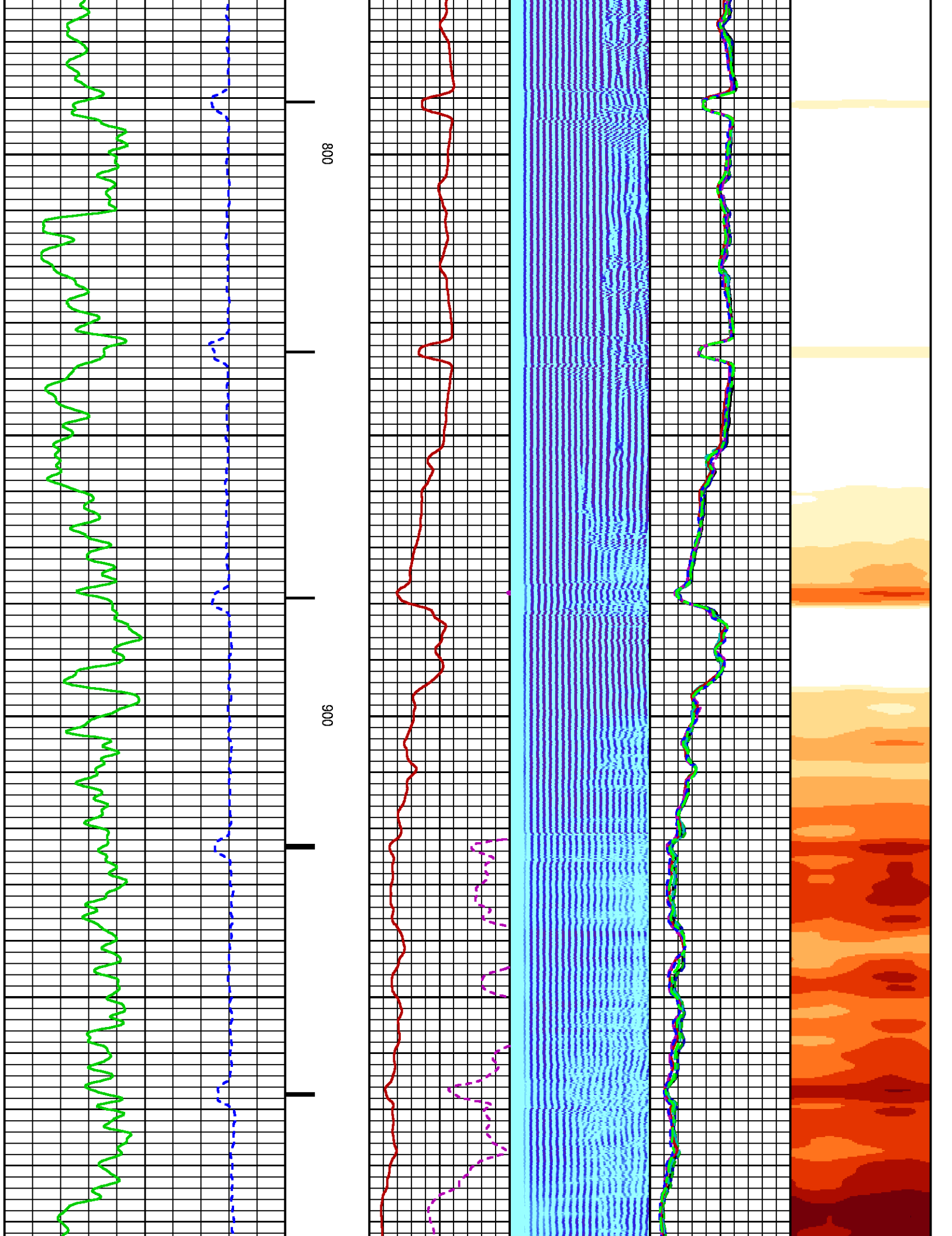
Created On : Nov 20 14:50:36 2014
 Company : WPX ENERGY
 Well : FEDERAL SG 342-28
 Field : GRAND VALLEY
 File Interval : 17 - 5287 Feet
 OCT : n012e

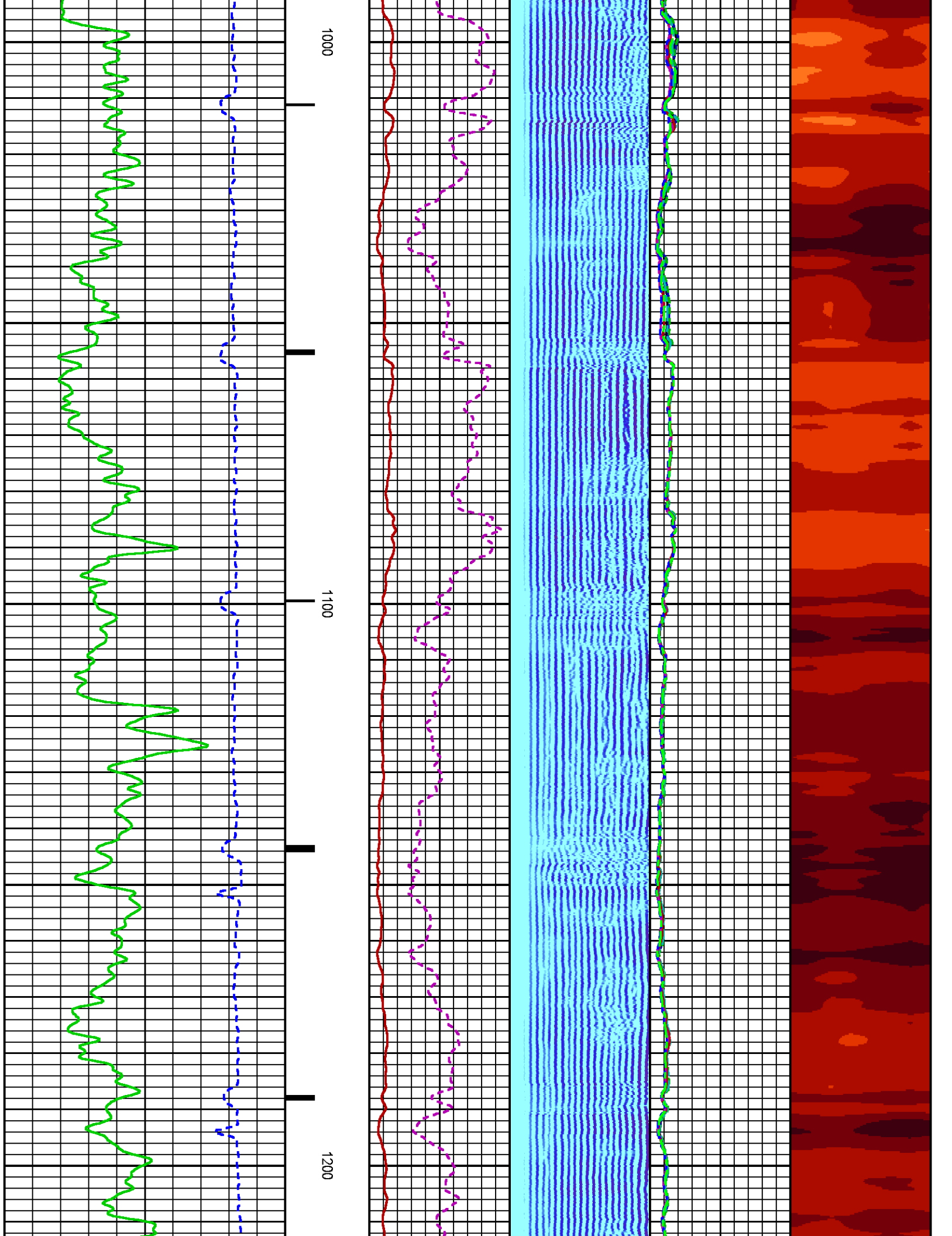


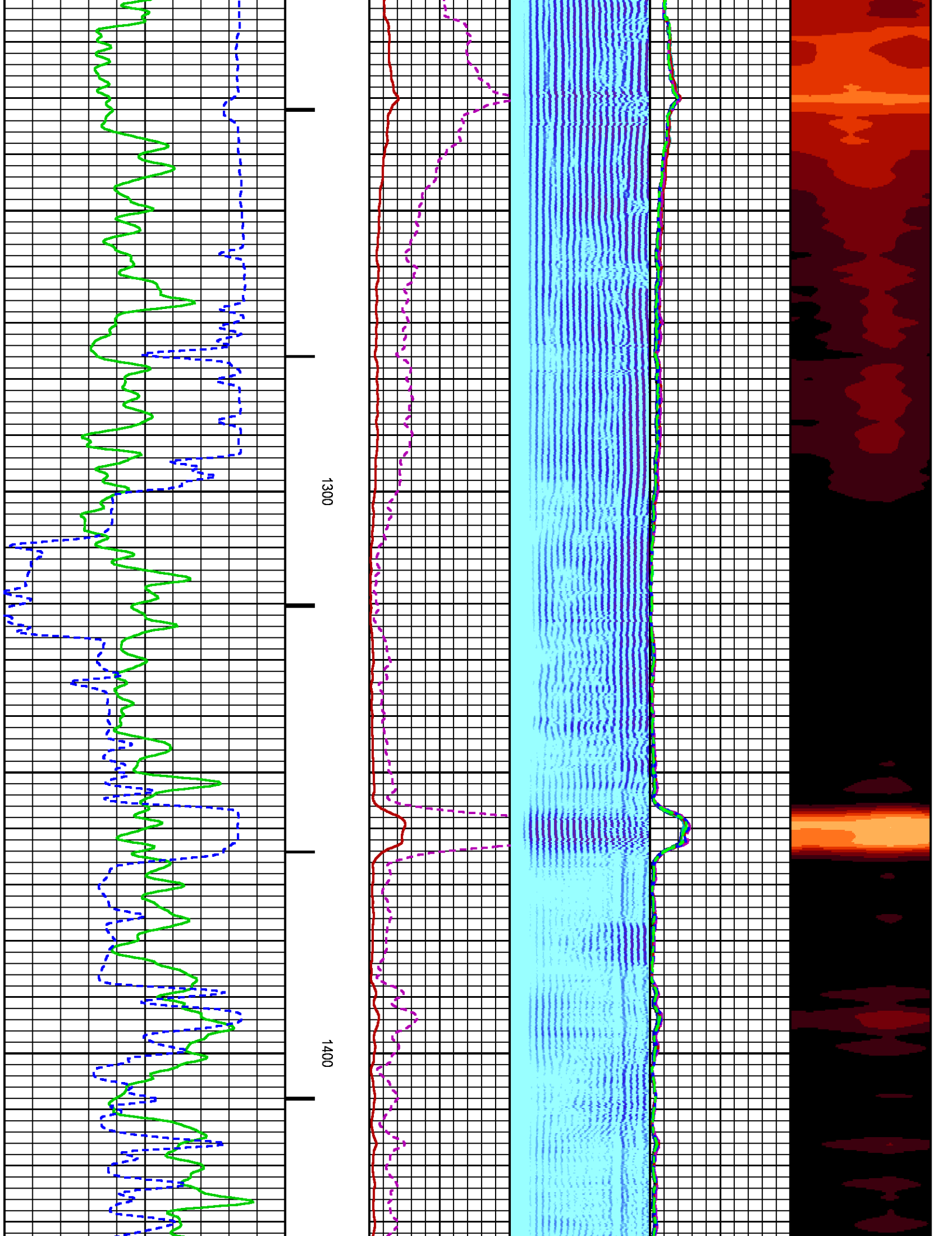


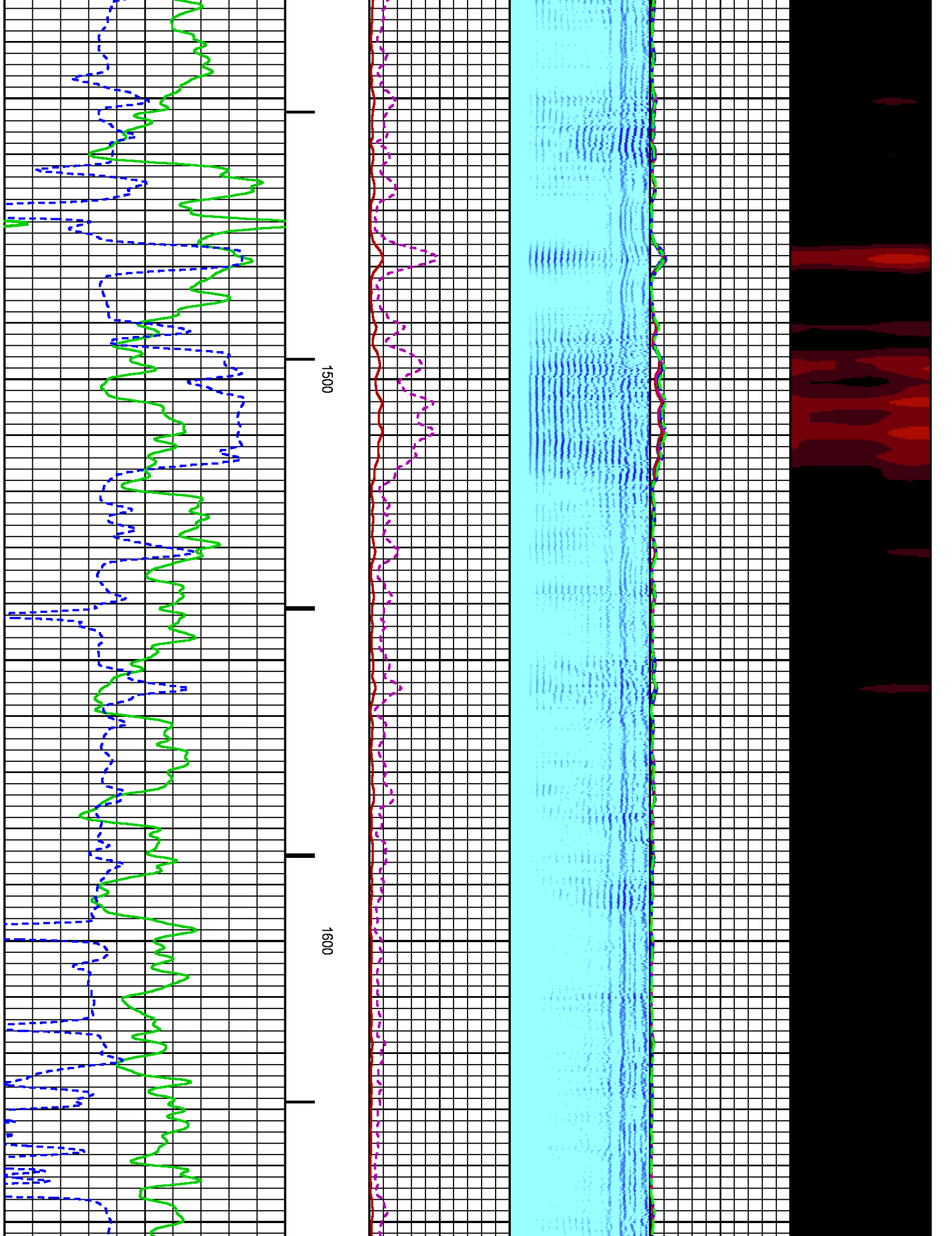


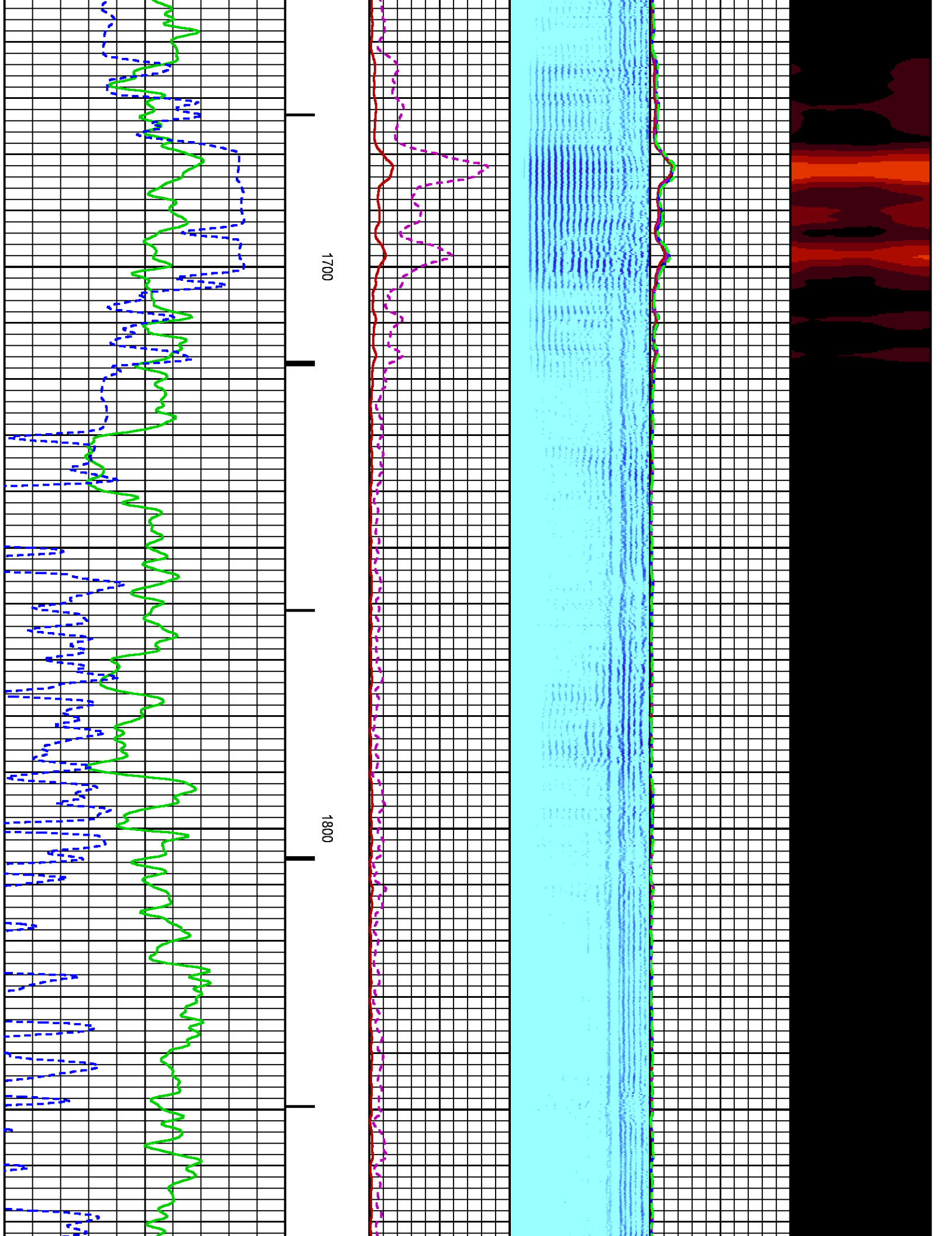


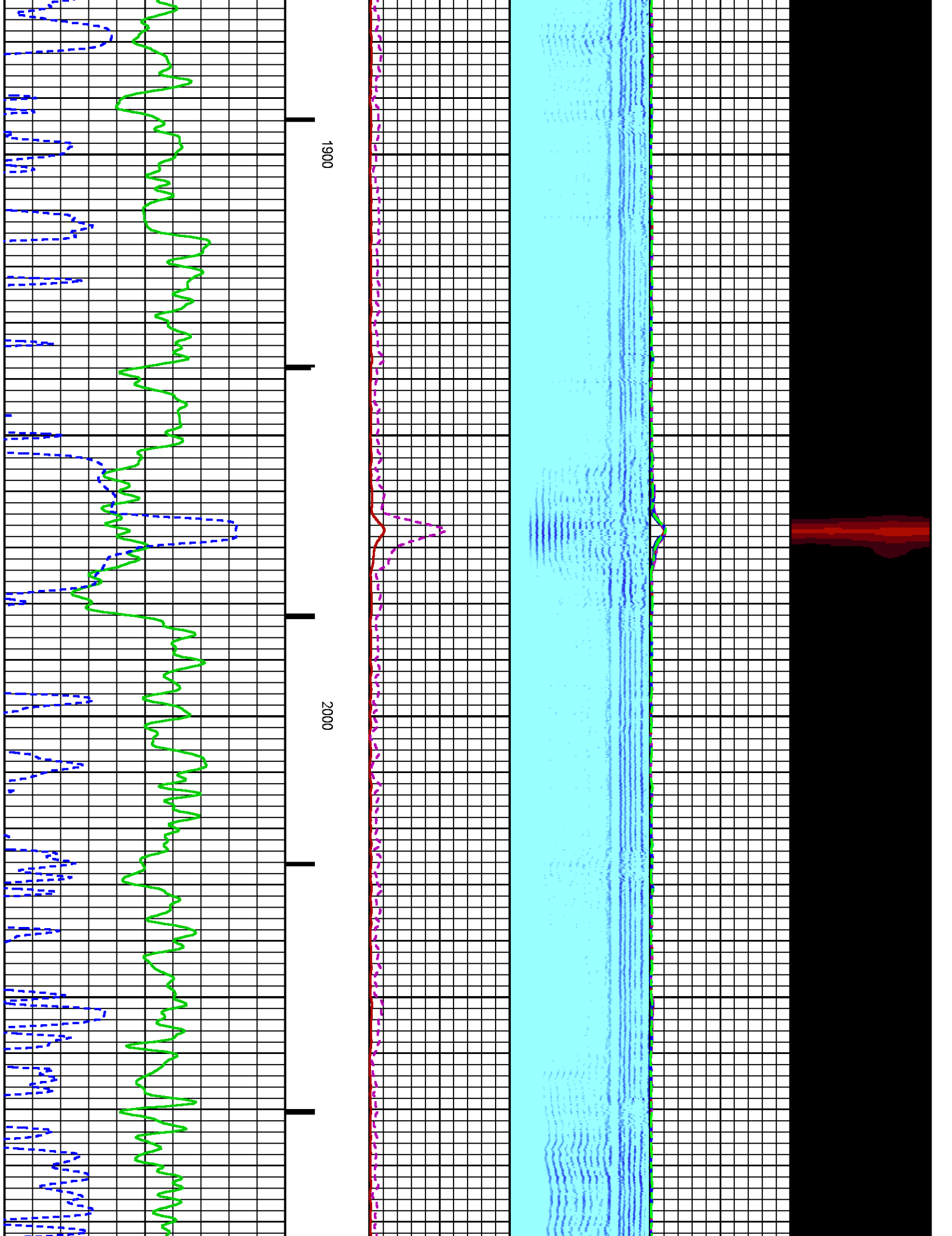


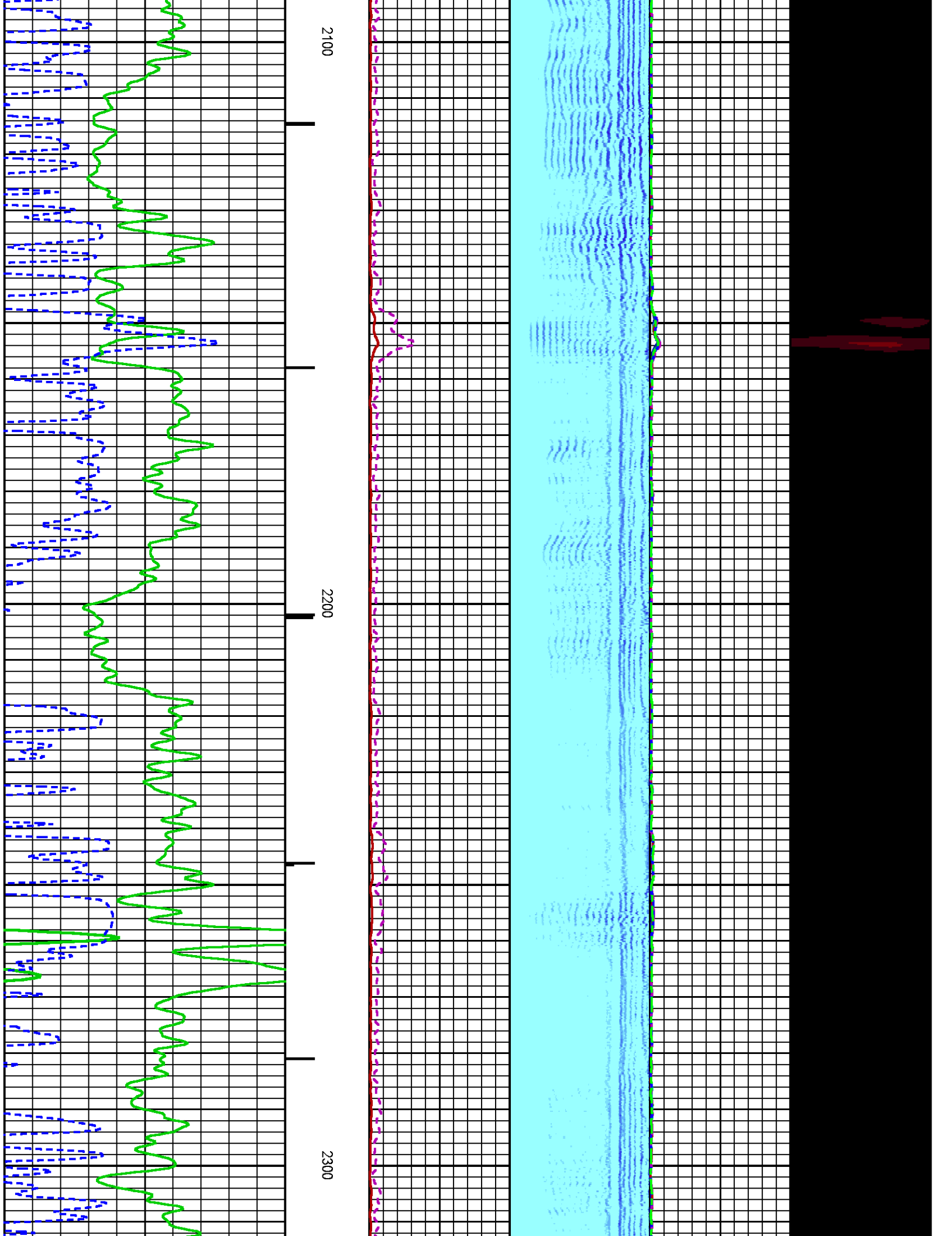


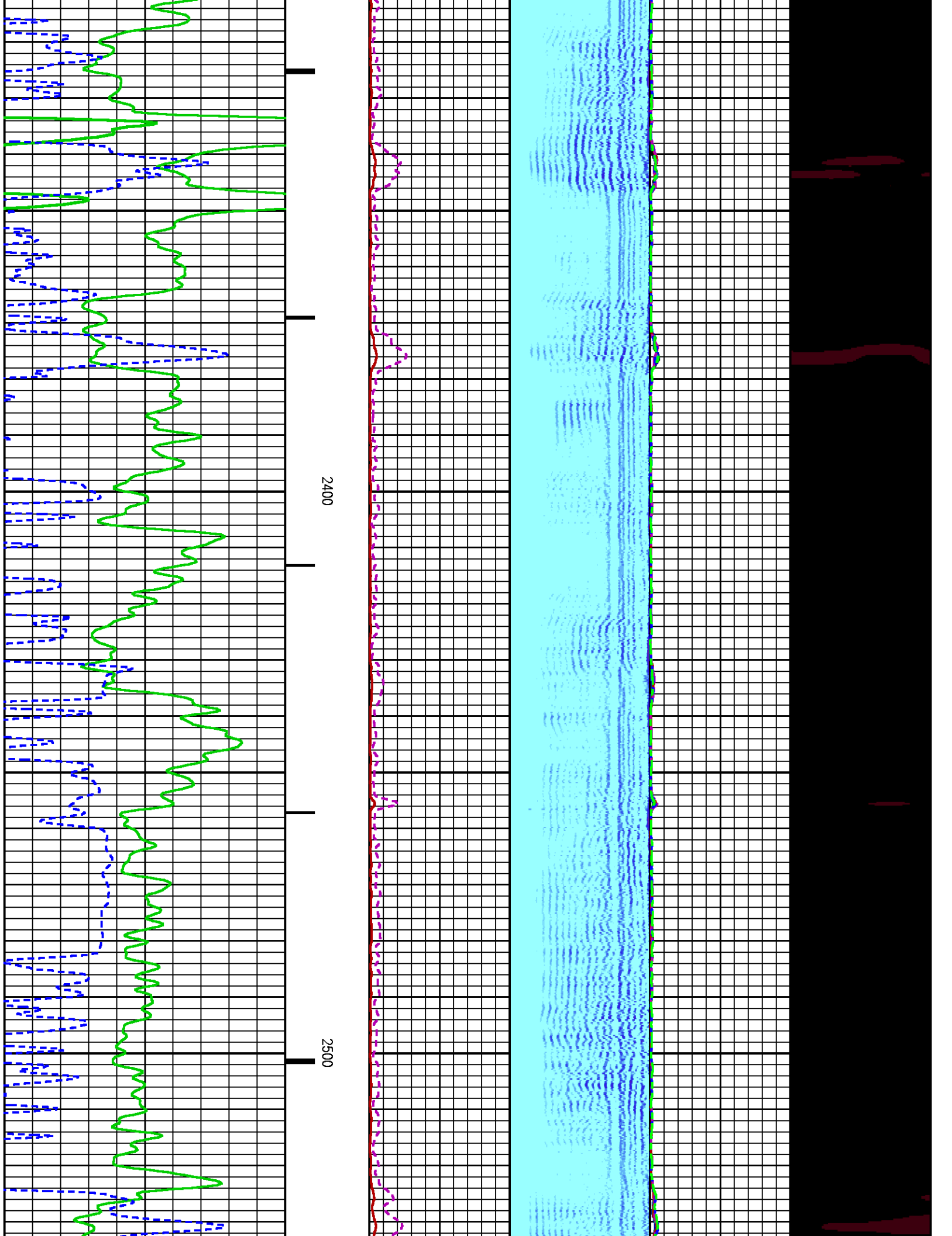


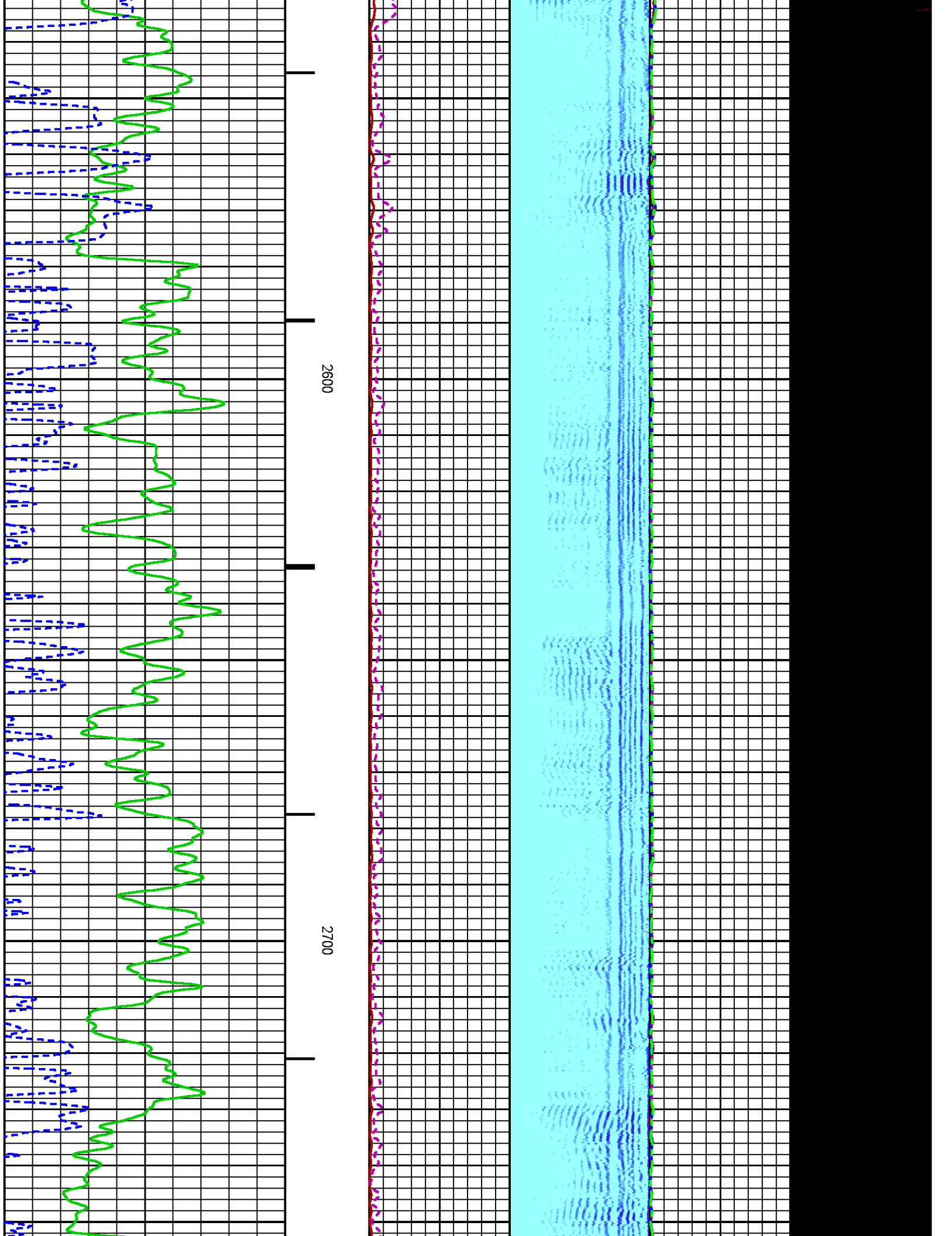


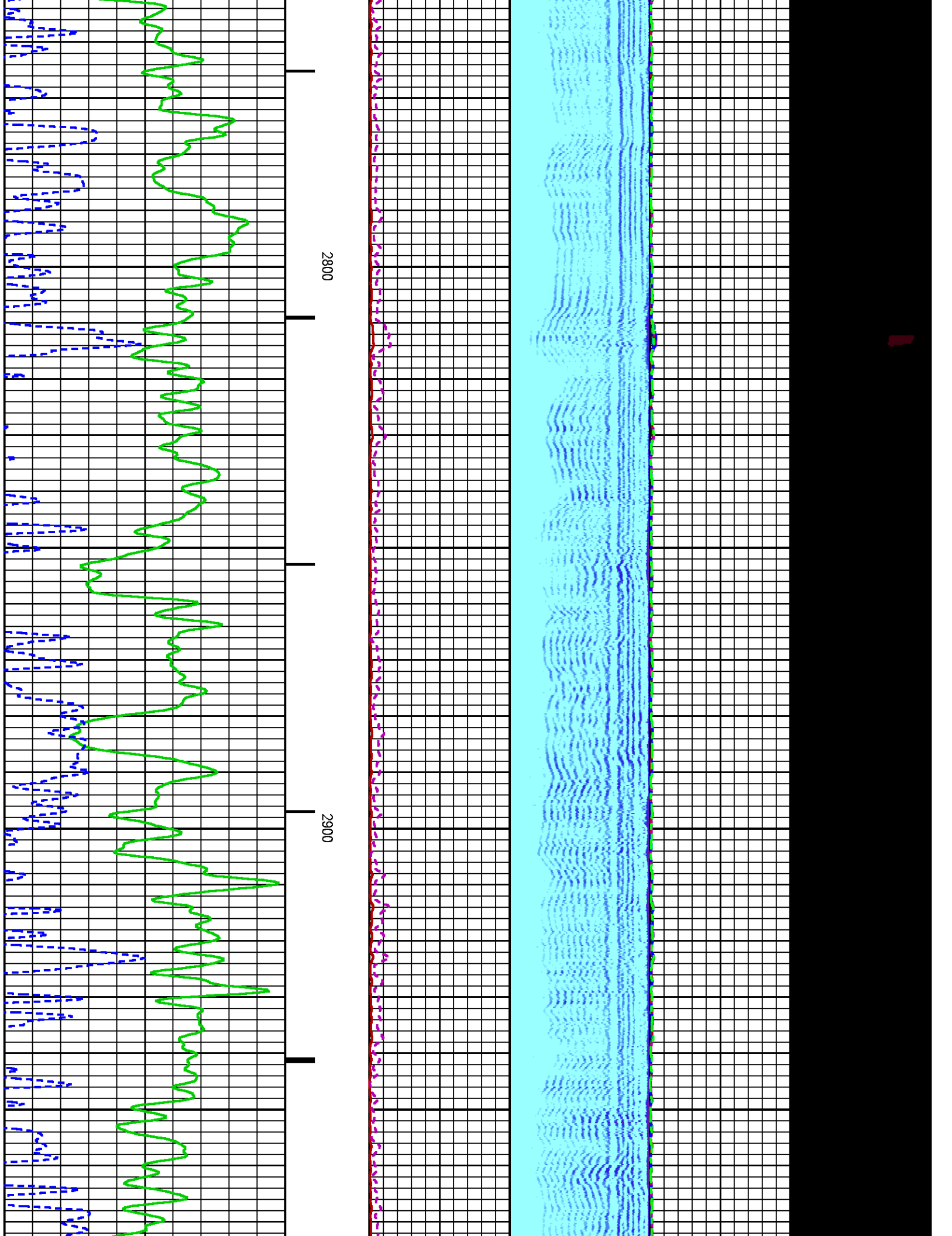


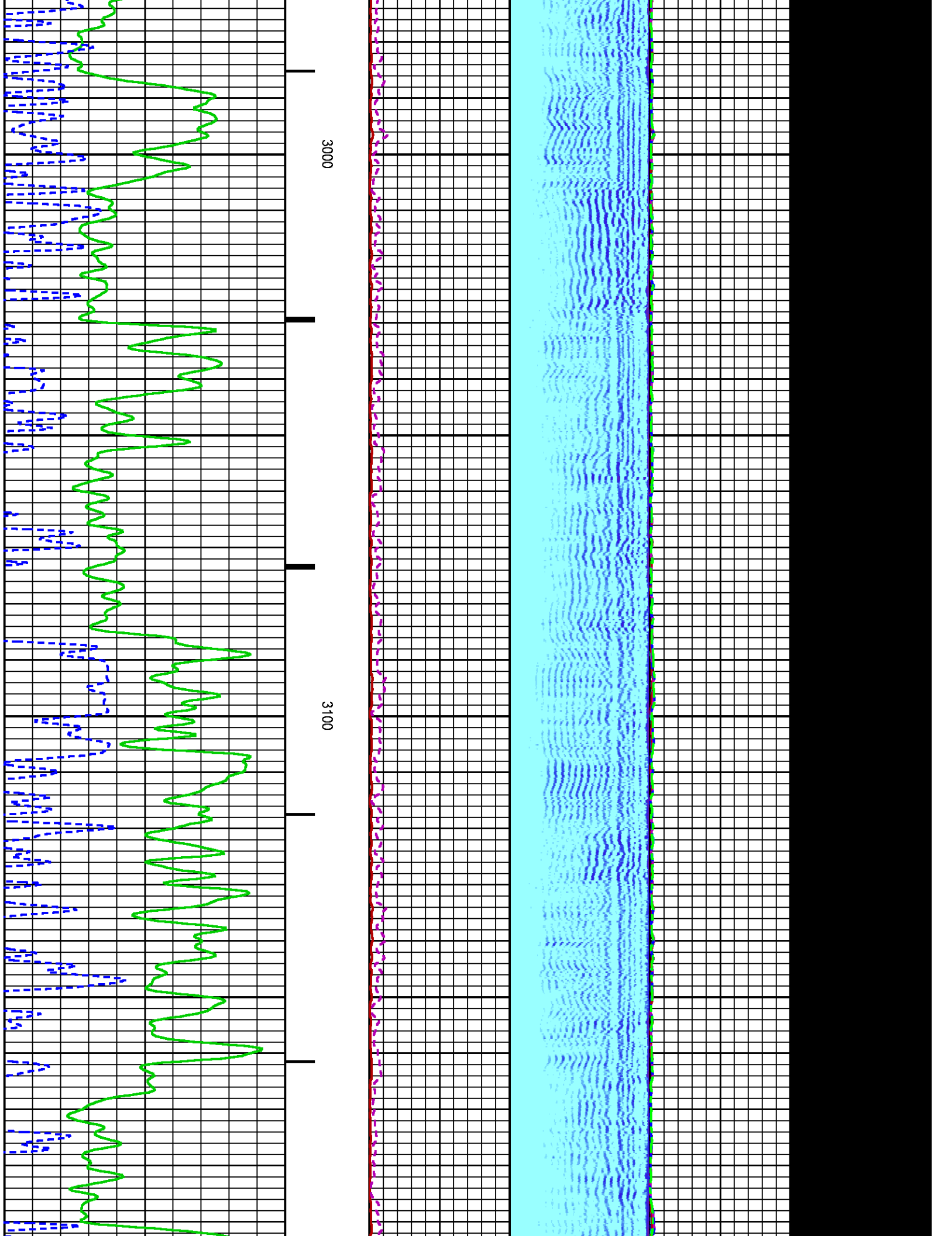


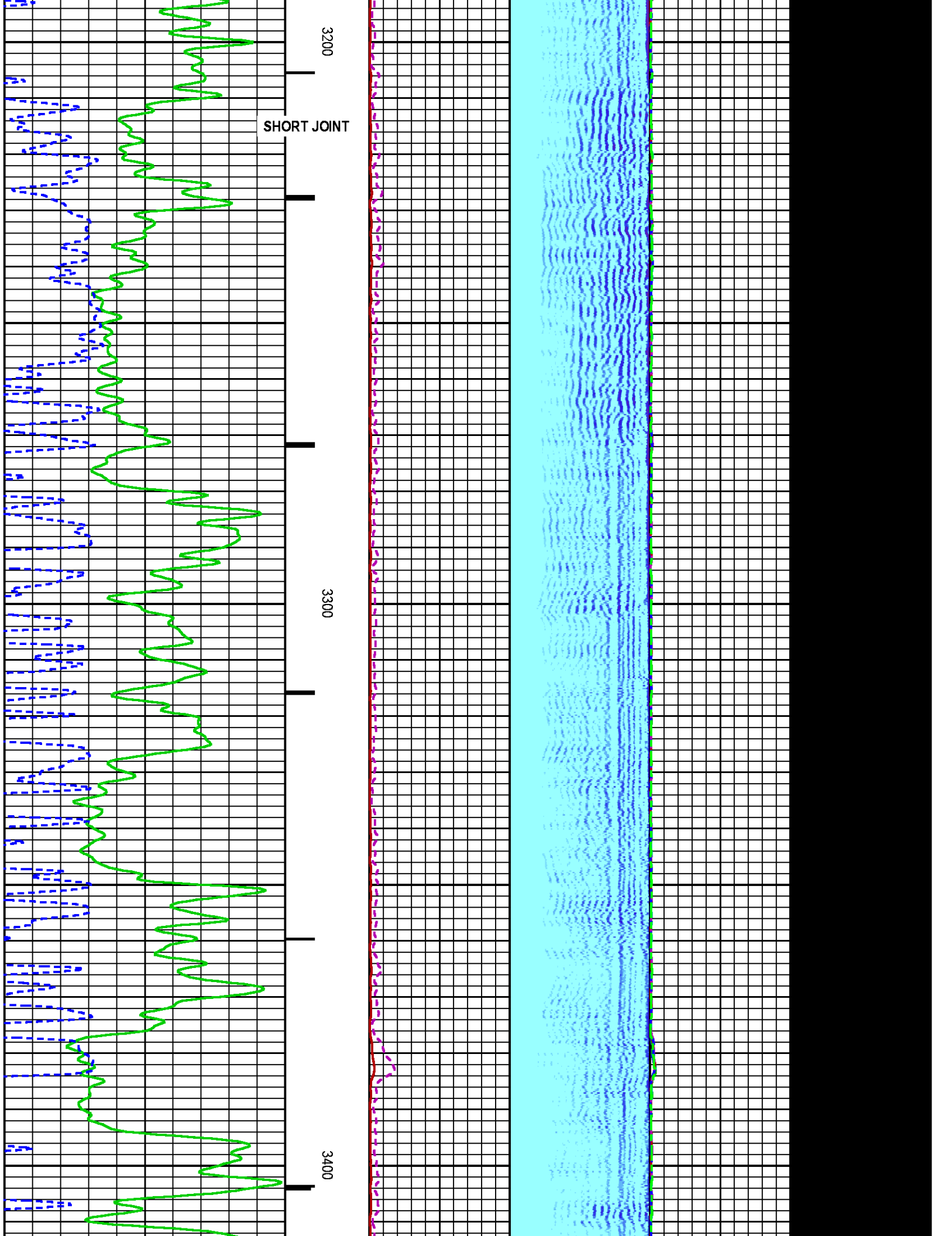


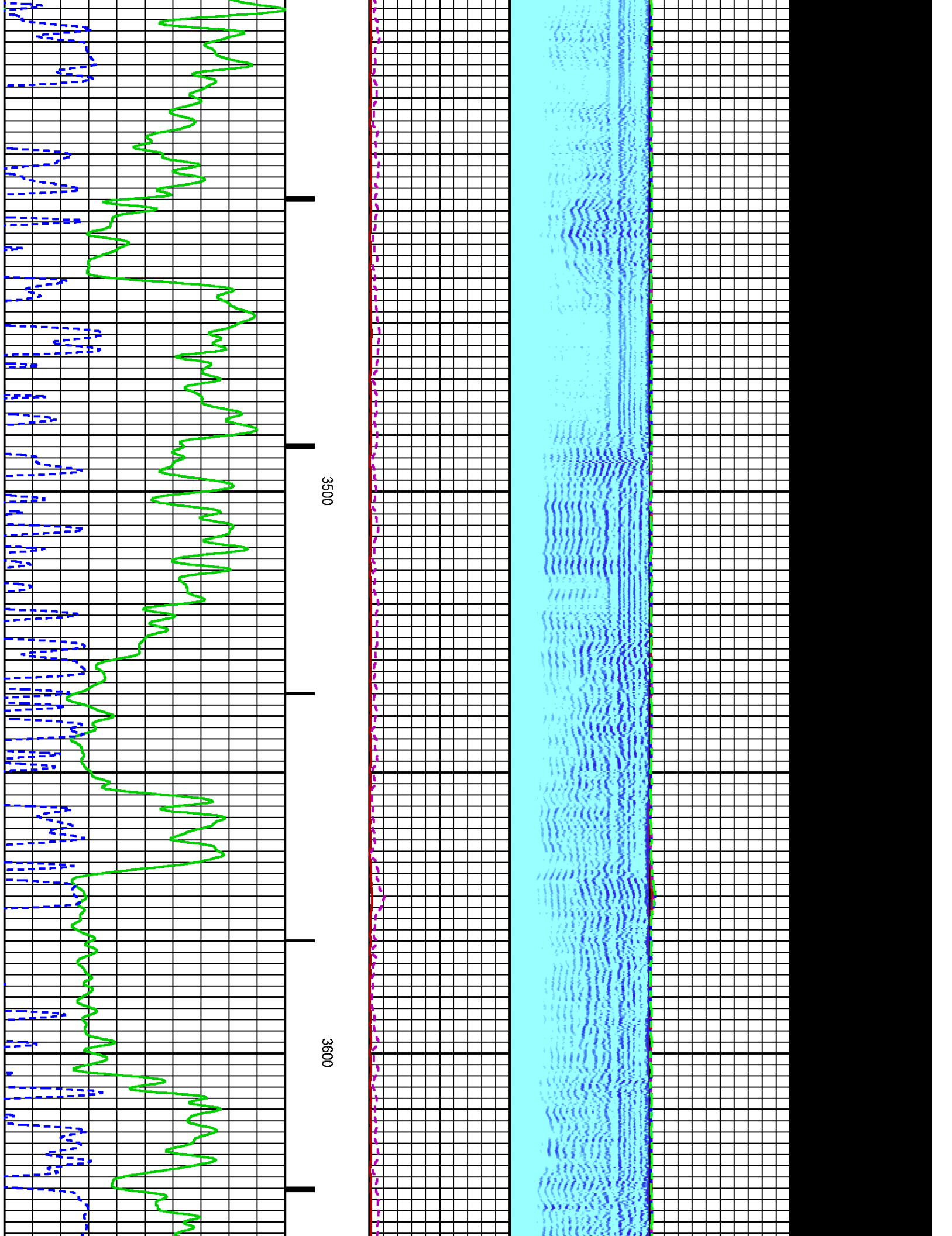


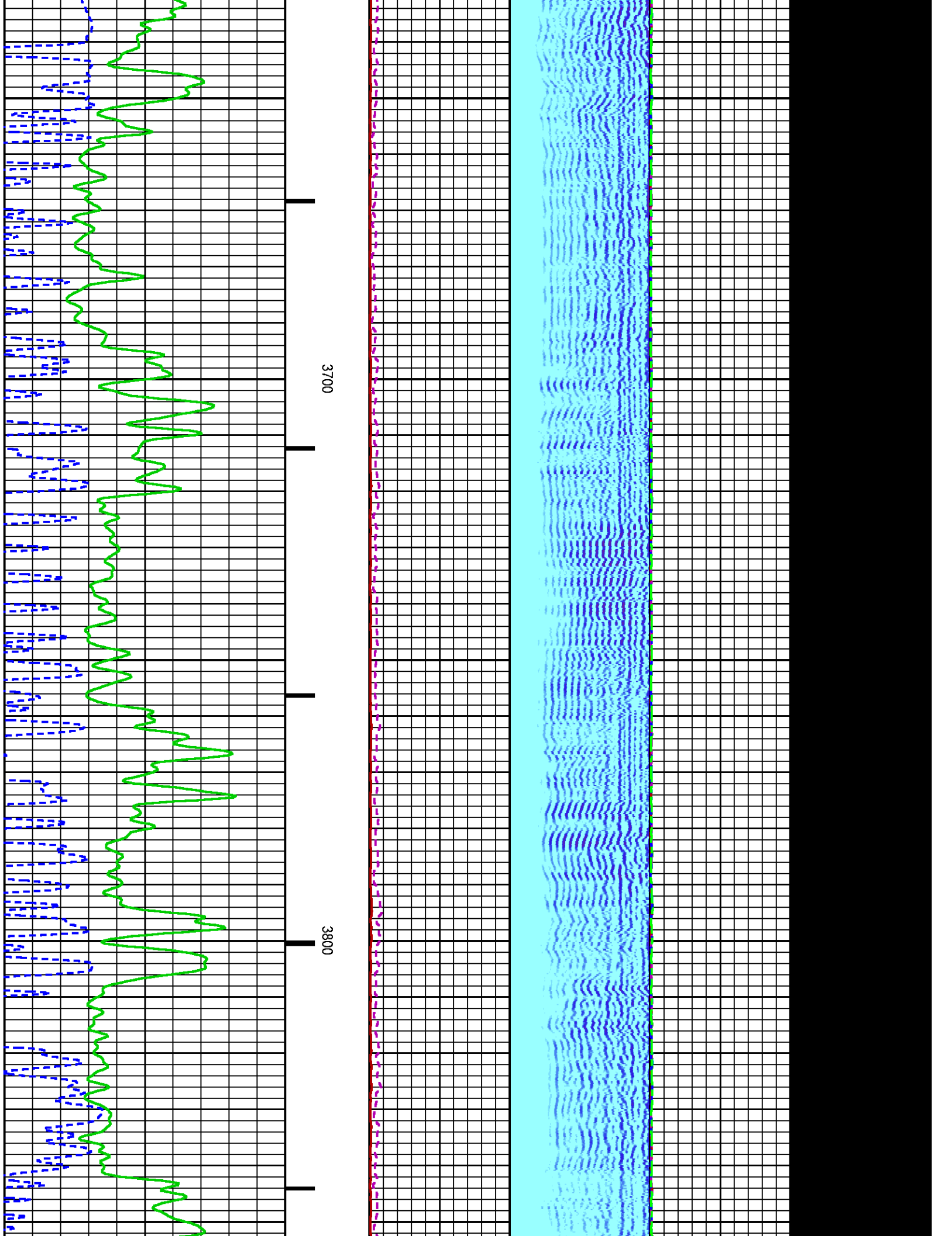


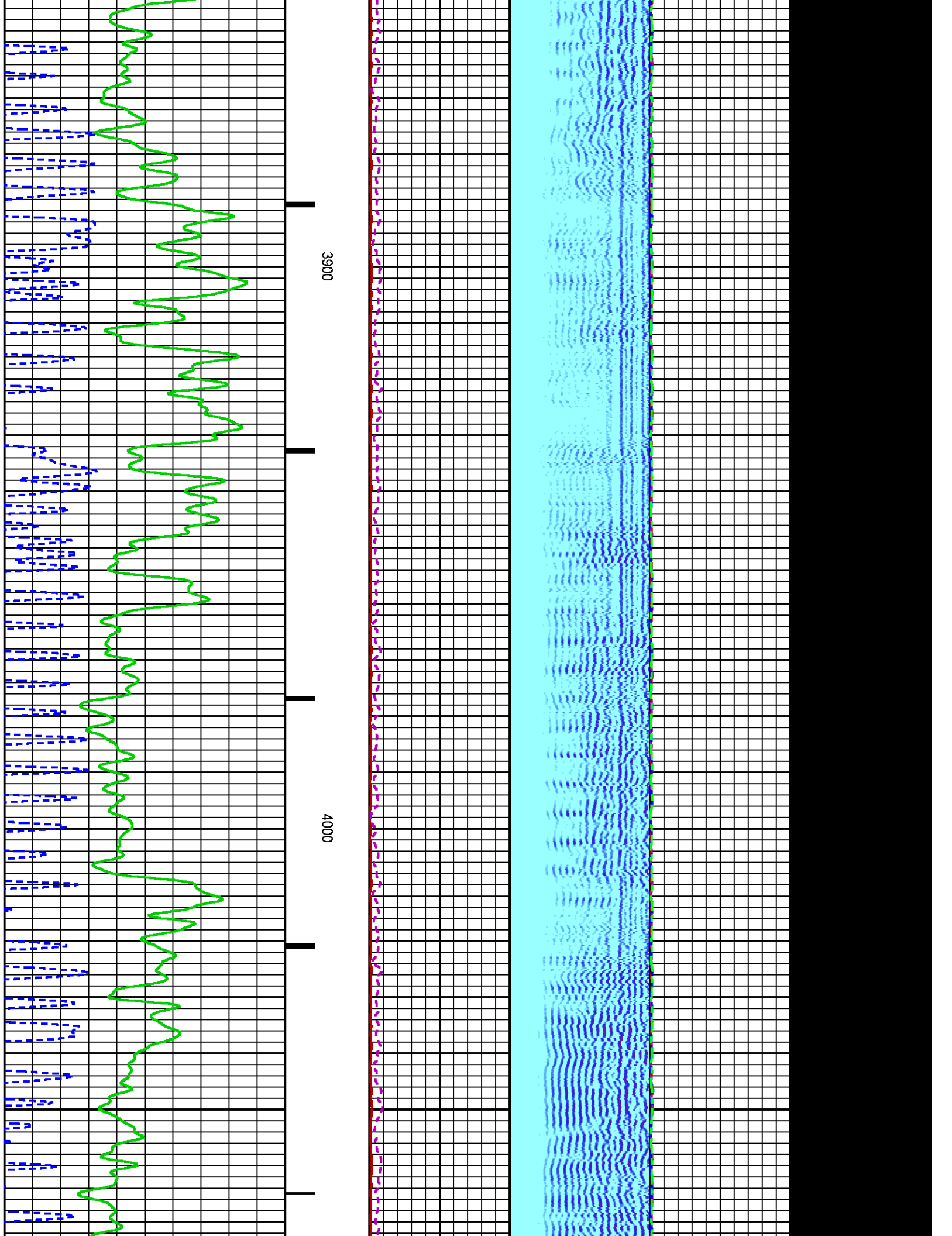


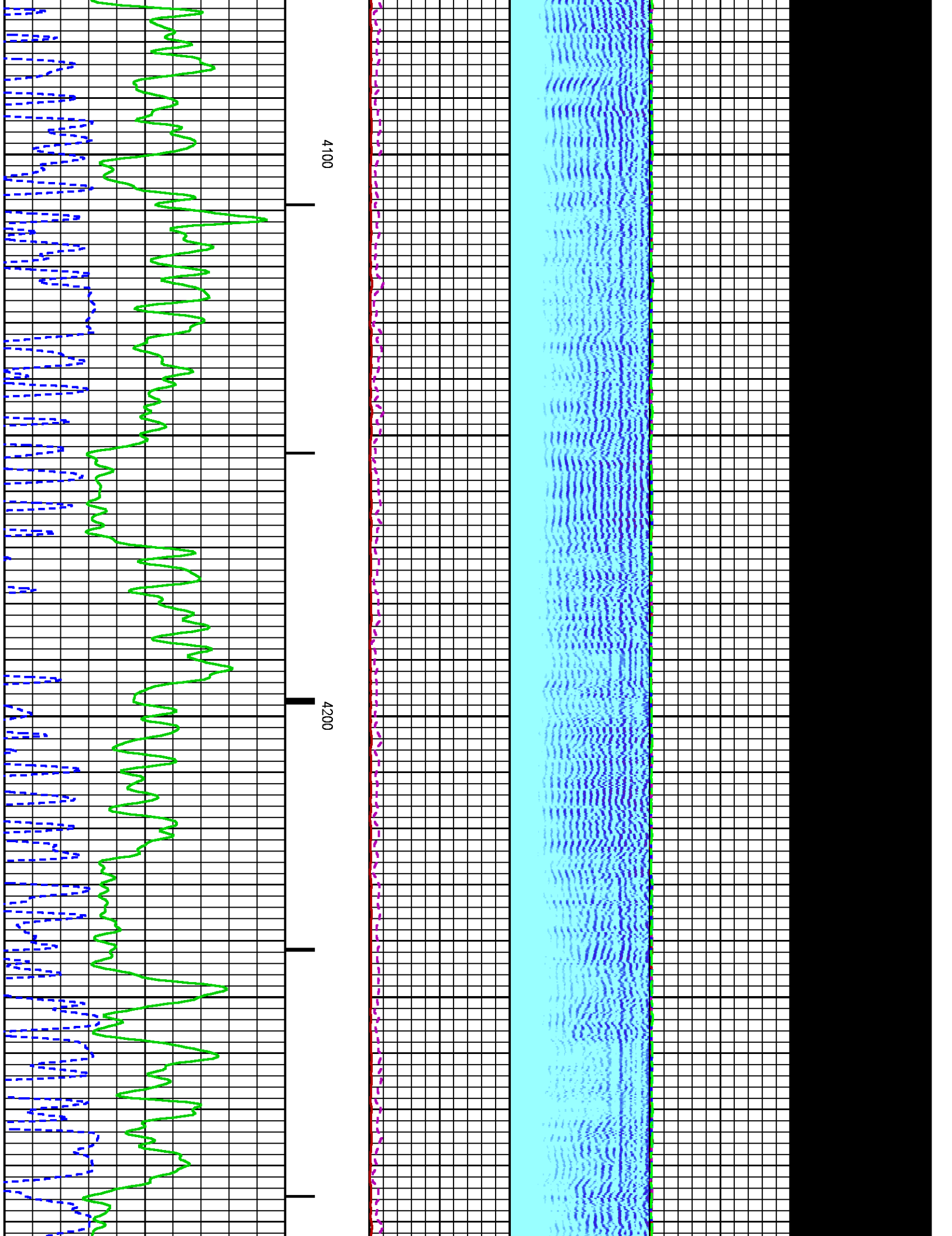


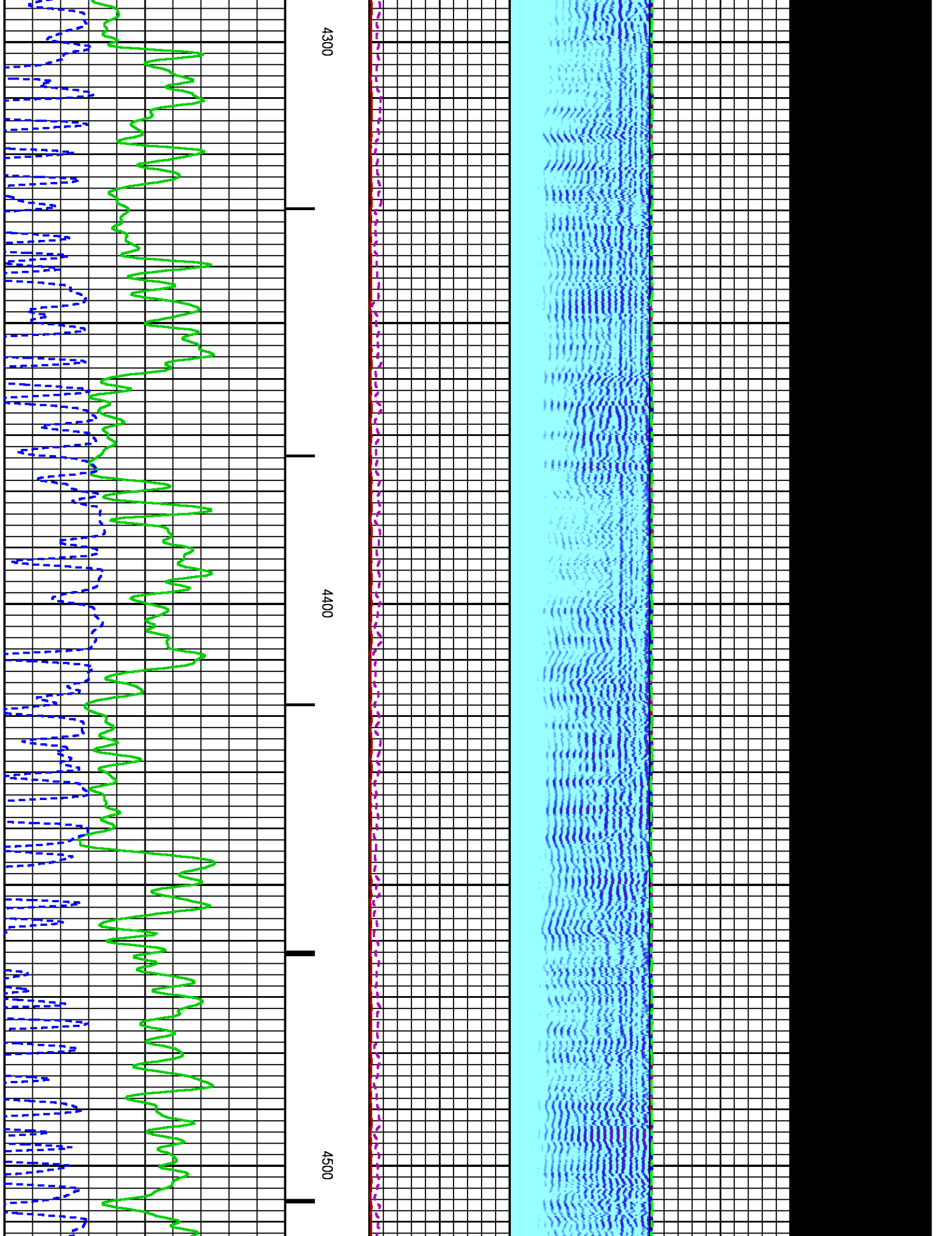


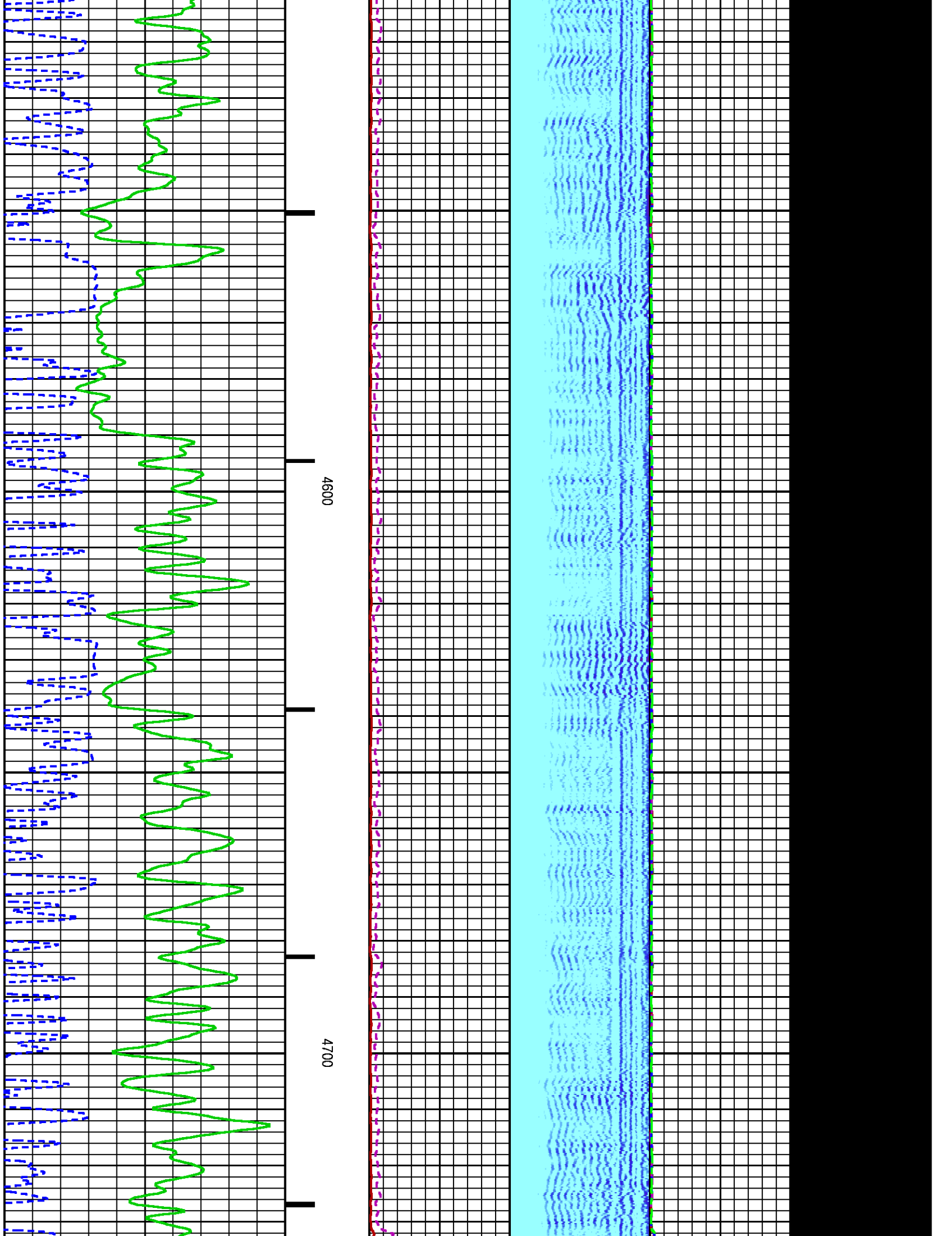


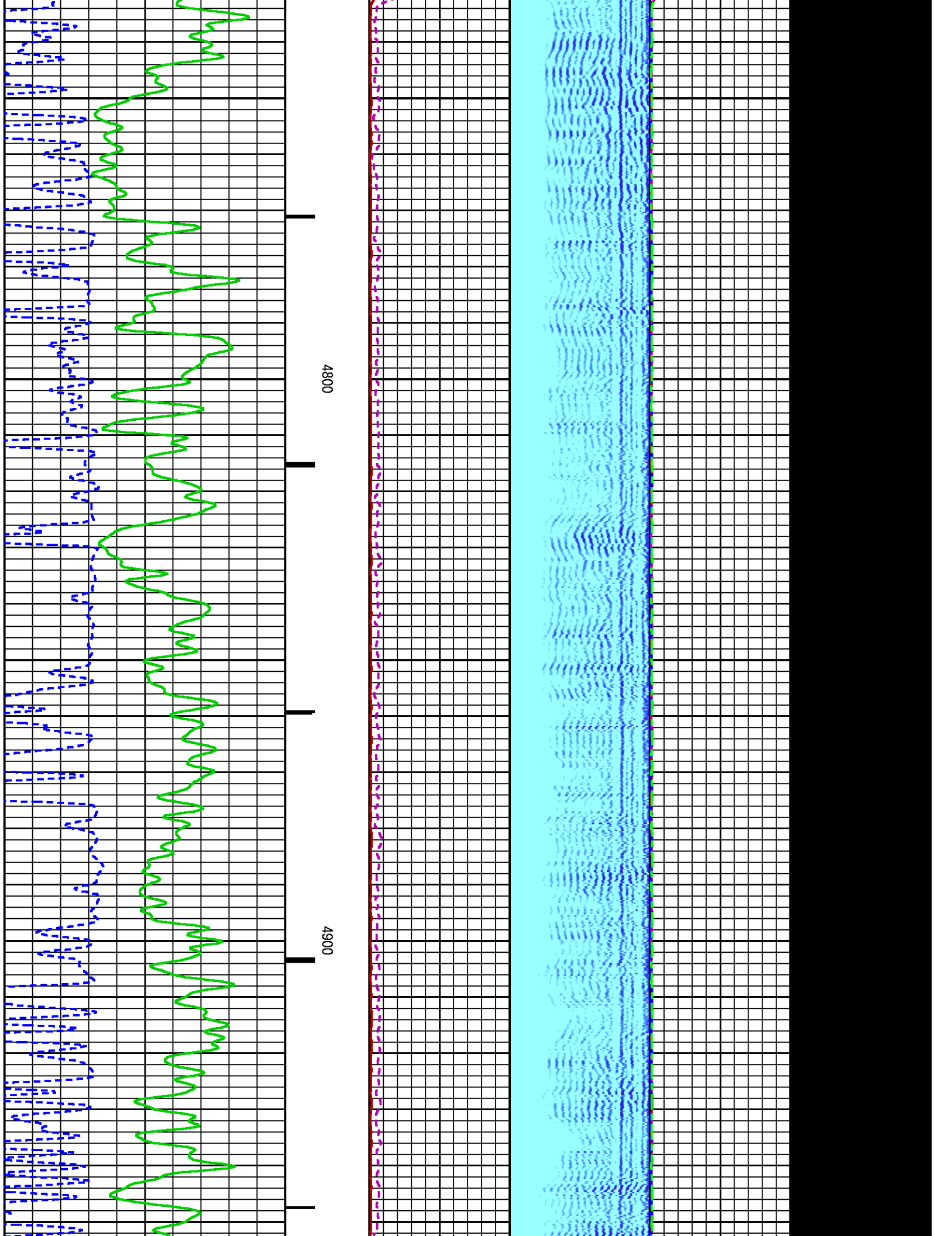


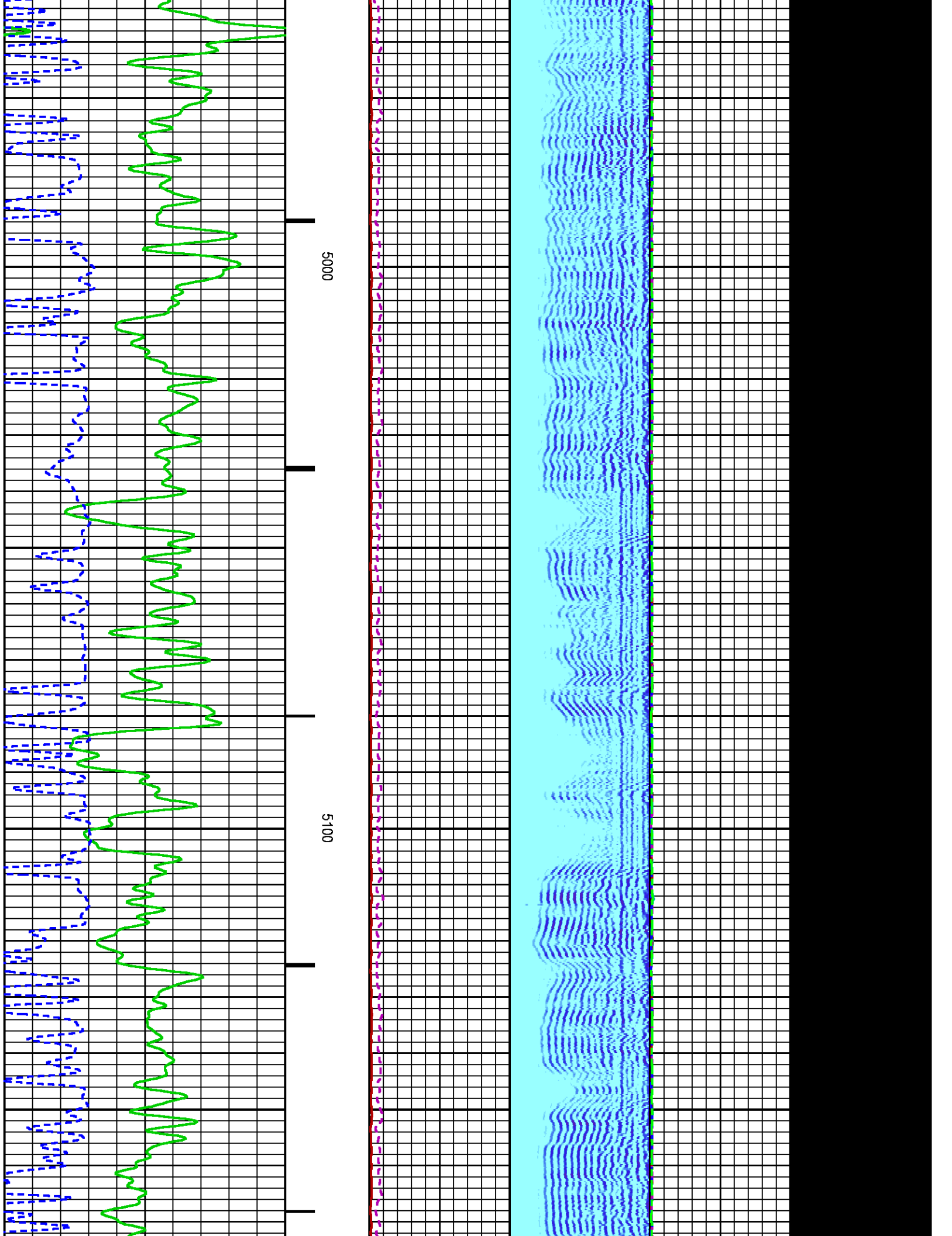


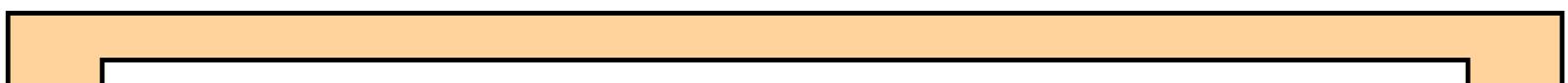
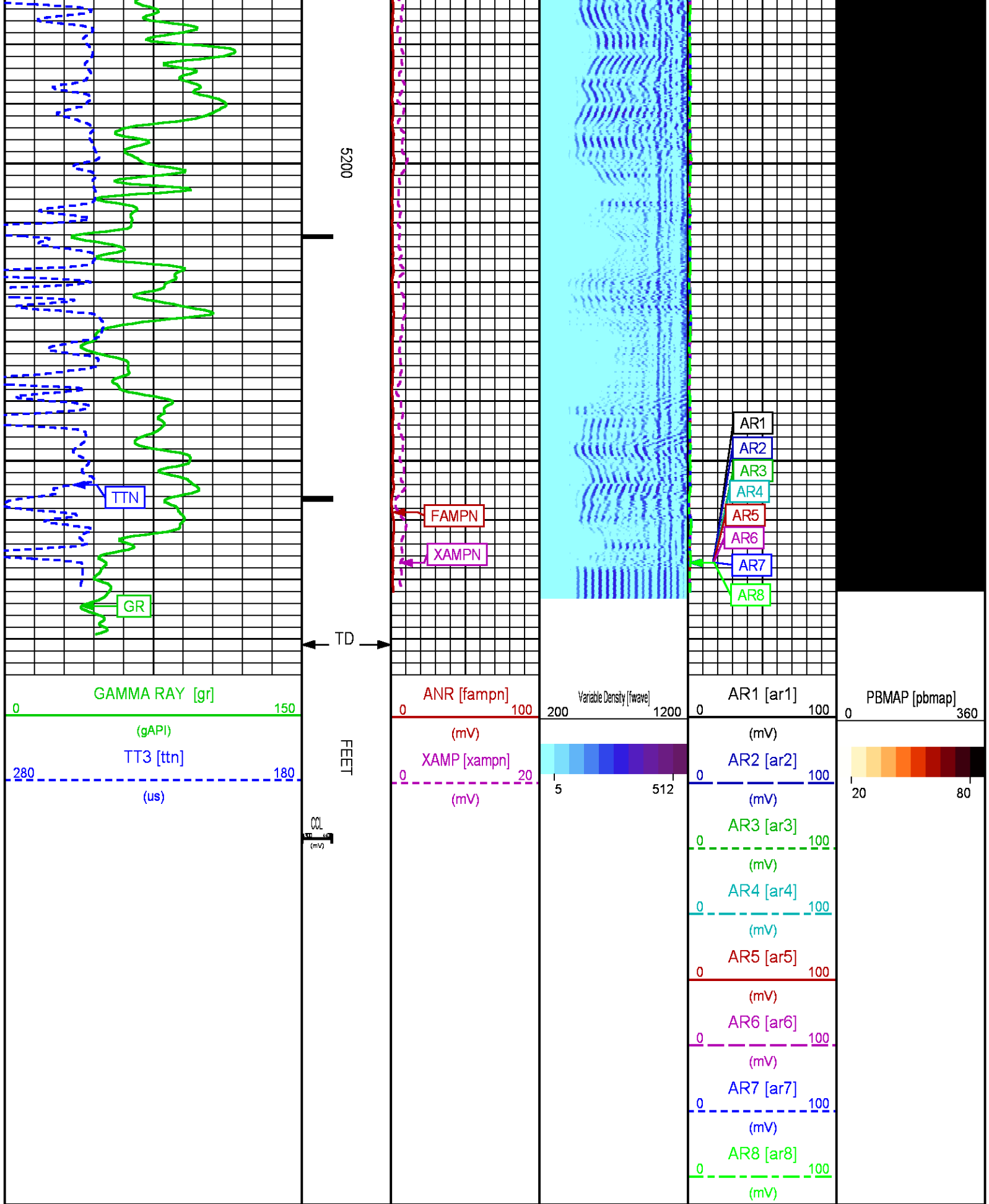












REPEAT PRESENTATION 0 PSI

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

Updates: 1 Patches: 4

Plotted: Thu Nov 20 17:26:44 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH092567/n012e01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 4882.250 ft BOTTOM DEPTH: 5292.000 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*)	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*)	-70	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	Nov 20 14:39:14 2014	CASING COLLAR LOCATOR
F1:FAMPN	Nov 20 14:39:14 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Nov 20 14:39:14 2014	FAR WAVE FORM
F1:GR	Nov 20 14:39:14 2014	GAMMA RAY
F1:TTN	Nov 20 14:39:14 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Nov 20 14:39:14 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				

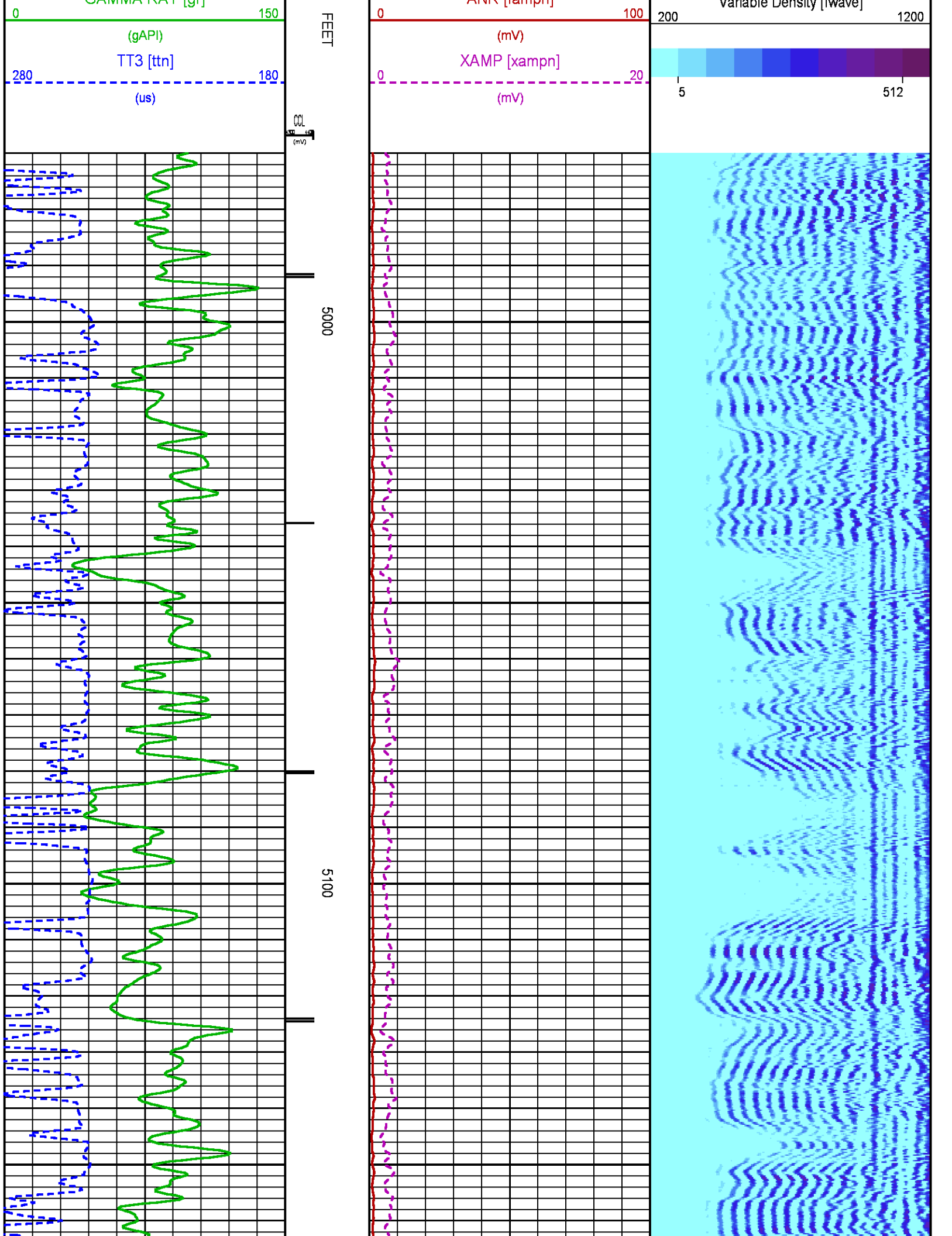
Presentation : HL6670:/dat1a/CH092567/342CBL_REPEAT_PRIMARY.fvpdf [5"/100' Scale]
Plot Interval : 4970 - 5270 Feet

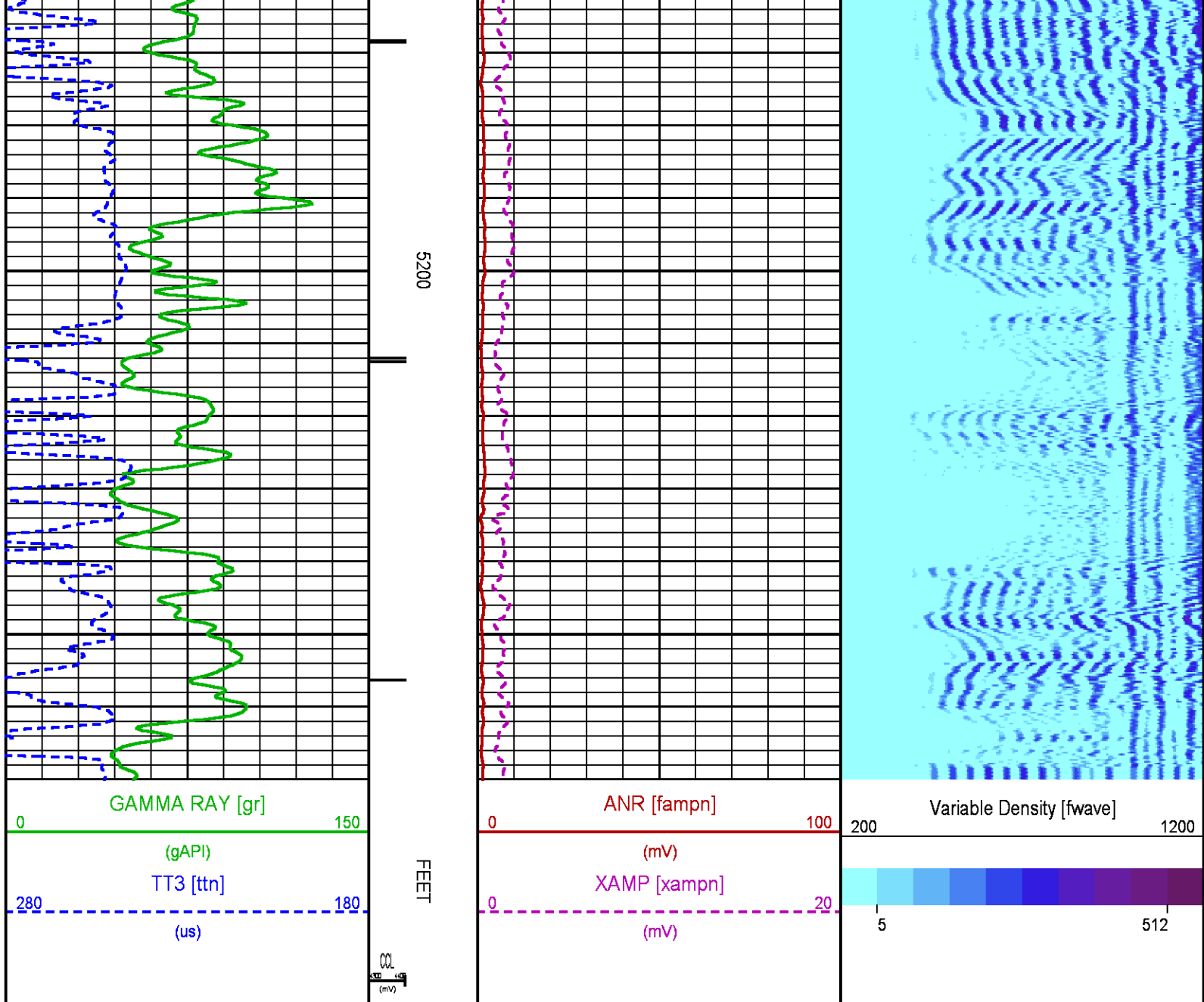
Data File 1 : F1 : HL6670:/dat1a/CH092567/SG342CBL_REPEAT.xtf
Created On : Nov 20 14:39:14 2014
Company : WPX ENERGY
Well : FEDERAL SG 342-28
Field : GRAND VALLEY
File Interval : 4863.5 - 5287 Feet
OCT : n012e

GAMMA RAY [gr]

ANP [fampn]

Variable Density [fvarn]





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH092567/n012e.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Thu Nov 20 14:11:44 2014

UNIT #: 3880TA HL6670

	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00

TARGETS 100.00 100.00 100.00

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	0.00	0.05	0.00	0.02	0.03	0.00	0.00	-0.01	-0.01	1.11	0.00
AMP FLUID (mV)	331	332	330	329	329	329	329	329	331	446	330
TT (us)	216	216	216	217	217	216	215	215	216	325	216
M FACTOR	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.34	0.30

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: DATE/TIME PERFORMED: DAYS SINCE CAL:

UNIT #: CABLE #:

	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	0.00	0.01	0.01	0.00	-0.00	0.00	0.00	0.03	0.01
AMP AIR	-0.04	-0.11	-0.23	0.03	0.08	0.01	0.06	-0.15	-0.07	-0.17	100.07

SHOP SHOP WIRELINE
M FACTOR A FACTOR FACTOR

GR PRIMARY CALIBRATION SUMMARY

TOOL #: DATE/TIME PERFORMED:

UNIT #: CALB JIG #:

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	102.04	385.73	283.7	0.652	66.55	251.55	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: DATE/TIME PERFORMED:

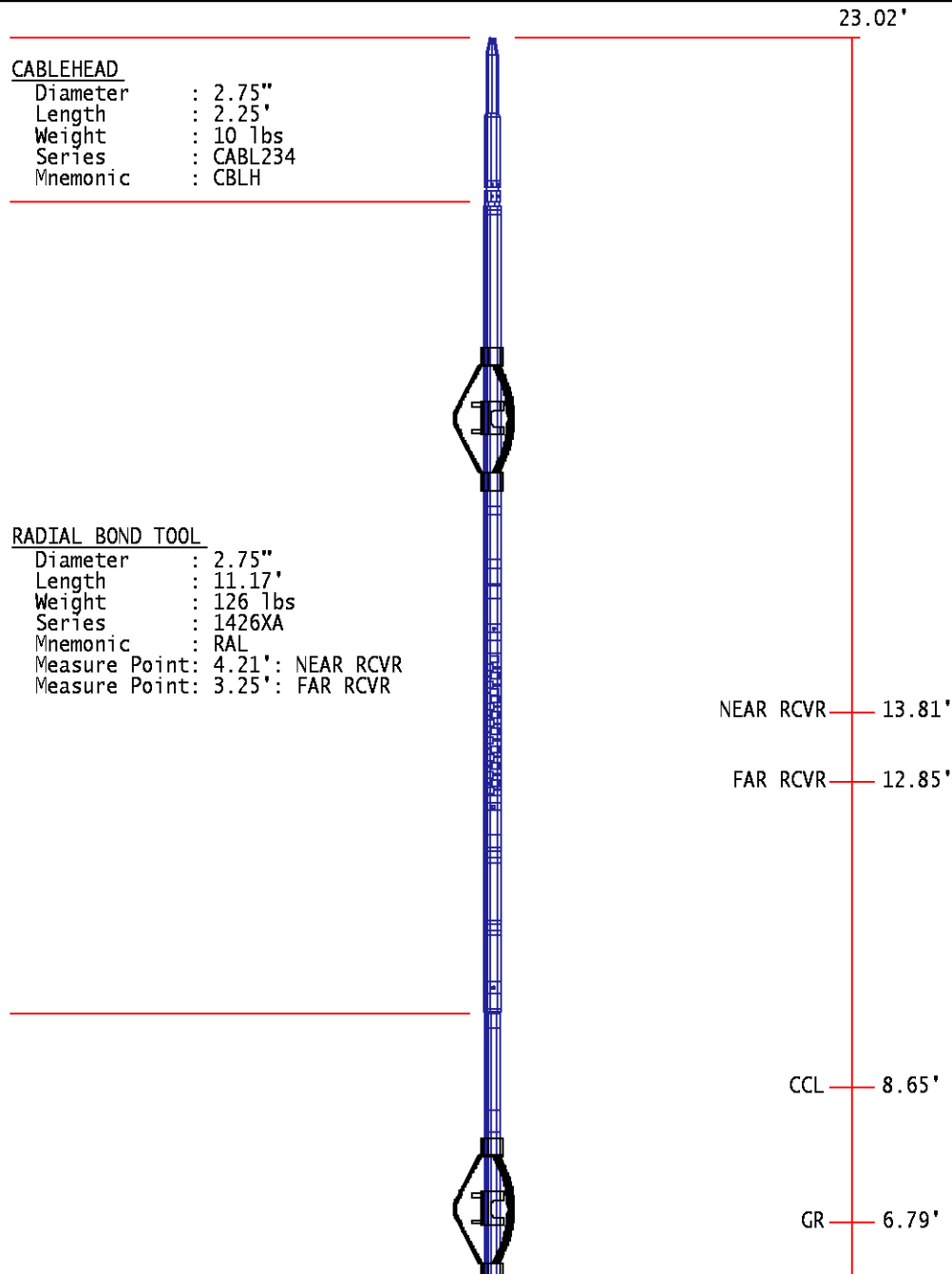
UNIT #: VERI JIG #:

BACKGROUND CALBRTR ON MULT BACKGROUND CALBRTR ON DIFF.
(cts) (cts) (gAPI) (gAPI) (gAPI)

GR	(LBS) 108.58	(LBS) 381.73	(GAPI) 0.652	(GAPI) 70.81	(GAPI) 248.94	(GAPI) 178.13
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH092567/CBL-tdg



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

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

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

NEAR RCVR — 13.81'
 FAR RCVR — 12.85'
 CCL — 8.65'
 GR — 6.79'



23.02'

BULL PLUG 2 3/4

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

NEU 1.40'

0.00'

 	COMPANY <u>WPX ENERGY</u>	FILE NO: <u>CH092567</u>
	WELL <u>FEDERAL SG 342-28</u>	API NO: <u>05045219590000</u>
	FIELD <u>GRAND VALLEY</u>	
	COUNTY <u>GARFIELD</u> STATE <u>COLORADO</u>	
LOCATION: SHL: 2309' FSL & 510' FEL BHL: 1827' FNL & 151' FEL	ELEVATIONS: KB 5143 FT DF GL 5119 FT	<u>28 7S 96W</u> <u>FEDERAL SG 43-28</u> <u>H&P 318</u>
SEC <u>28</u> TWP <u>7S</u> RGE <u>96W</u>	DATE <u>20-Nov-2014</u>	

