



FILE NO: CH095502	COMPANY WPX ENERGY
API NO: 05103119790000	WELL FEDERAL RGU 33-23-198
	FIELD SULPHUR CREEK
	COUNTY RIO BLANCO
	STATE COLORADO

Ver. 4.01	LOCATION:	OTHER SERVICES
23 1S 98W	SHL: 1055' FSL & 629' FEL	RPM
RGU 43-23-198	BHL: 2448' FSL & 1892' FEL	
AZTEC 1000	SEC 23 TWP 1S RGE 98W	

PERMANENT DATUM	GL	ELEVATION	6567 FT	ELEVATIONS: KB 6592 FT DF GL 6567 FT
LOG MEASURED FROM	K.B.	25 FT	ABOVE P.D.	
DRILL. MEAS. FROM	K.B.			

DATE	23-Mar-2015		
RUN	1	TRIP	1
SERVICE ORDER	US095602		
DEPTH DRILLER	12817 FT		
DEPTH LOGGER	12778 FT		
BOTTOM LOGGED INTERVAL	12768 FT		
TOP LOGGED INTERVAL	25 FT		
TIME STARTED	9:00		
TIME FINISHED	14:00		
OPERATOR RIG TIME	5 HOURS		
TYPE OF FLUID IN HOLE	WATER		
FLUID DENSITY	NA		
FLUID SALINITY	NA		
FLUID LEVEL	78 FT		
LOGGED CEMENT TOP	SEE LOG		
WELLHEAD PRESSURE	0 PSI		
MAXIMUM HOLE DEVIATION	NA		
NOMINAL LOGGING SPEED	100 F/MN		
MAX. RECORDED TEMP.	279 DEGF		
REFERENCE LOG	NA		
REFERENCE LOG DATE	NA		
EQUIP. NO.	6670	LOCATION	GRAND JCT
RECORDED BY	P. EDWARDS		
WITNESSED BY	C. STEWART		

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
30 IN	0 FT	80 FT
14.75 IN	80 FT	4023 FT
7.875 IN	4023 FT	12817 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
18 IN			0 FT	80 FT
9.625 IN			0 FT	4023 FT
4.5 IN		P-110	0 FT	12817 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 0 feet.

Logged with zero PSI at wellhead.

BHT = 279 deg F

SJ = 7791' - 7813'

PRIMARY PRESENTATION 0 PSI

Plotted: Thu Mar 26 13:33:38 2015

FILE:	/dat1a/CH095502/n012eR01.prm		
LOGGING MODE:	DEPTH	DIRECTION:	UP
TOP DEPTH:	22.000 ft	BOTTOM DEPTH:	12792.000 ft

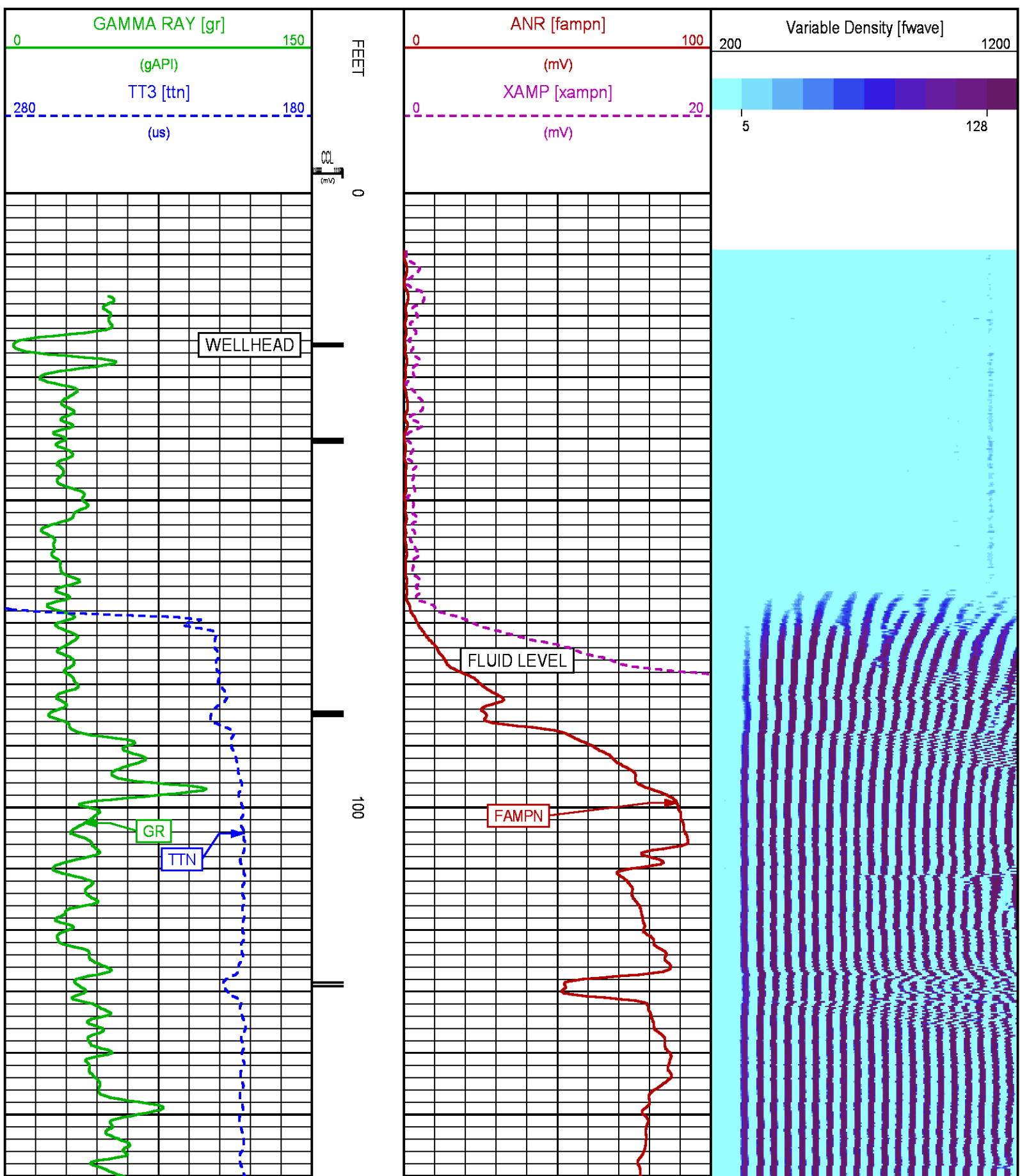
RAL CCL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
CCL FLOOR	CCL FLOOR	0		TOP BOTTOM

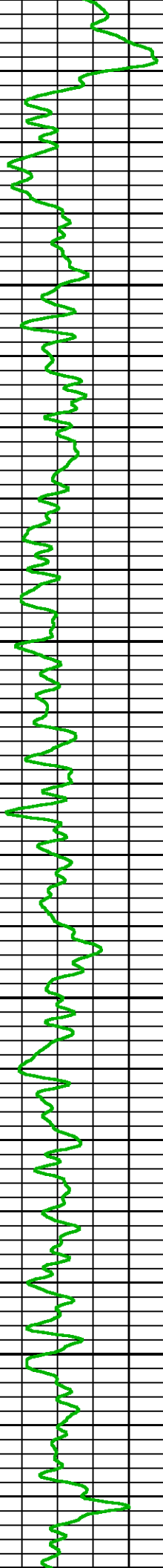
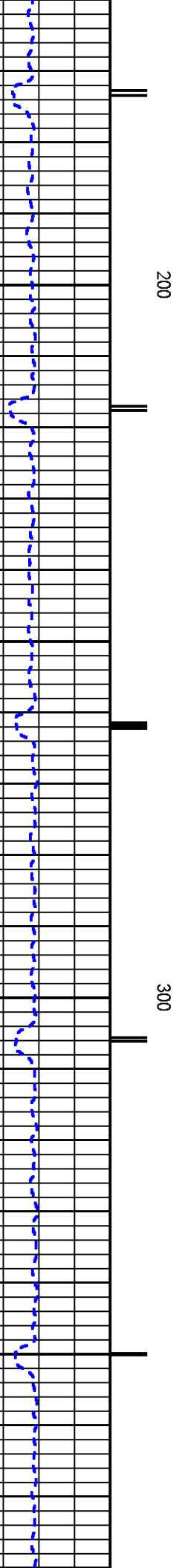
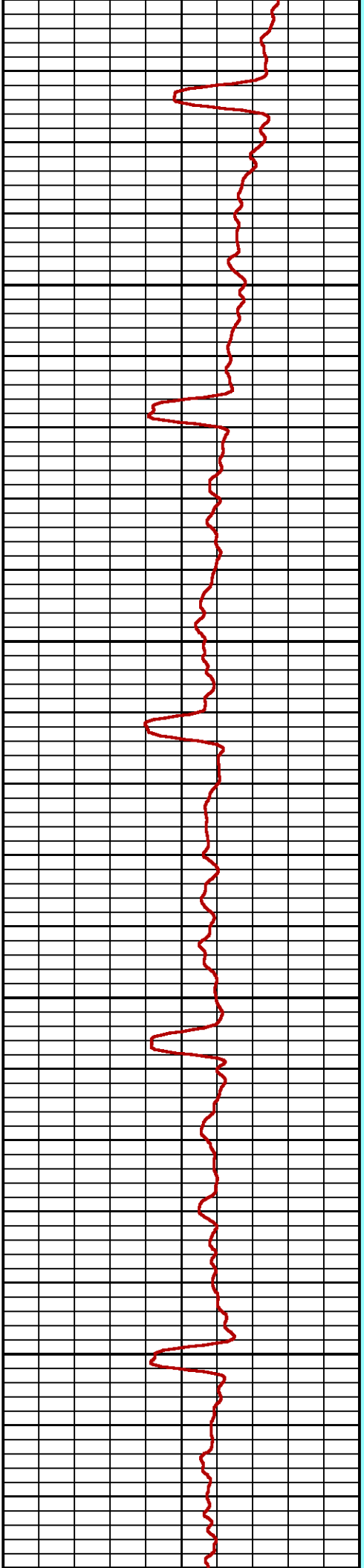
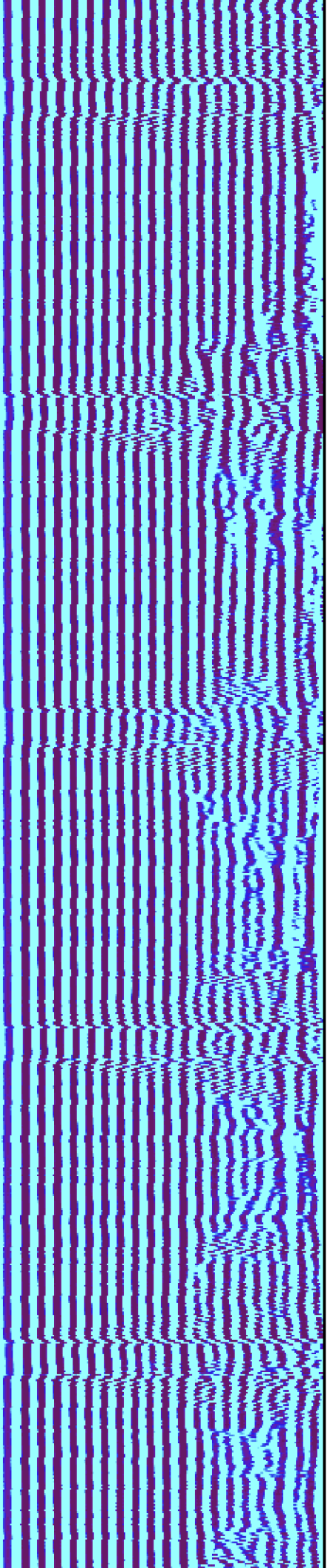
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 23 13:59:38 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 23 13:59:38 2015	FAR WAVE FORM
F1:GR	Mar 23 13:59:38 2015	GAMMA RAY
F1:TTN	Mar 23 13:59:38 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

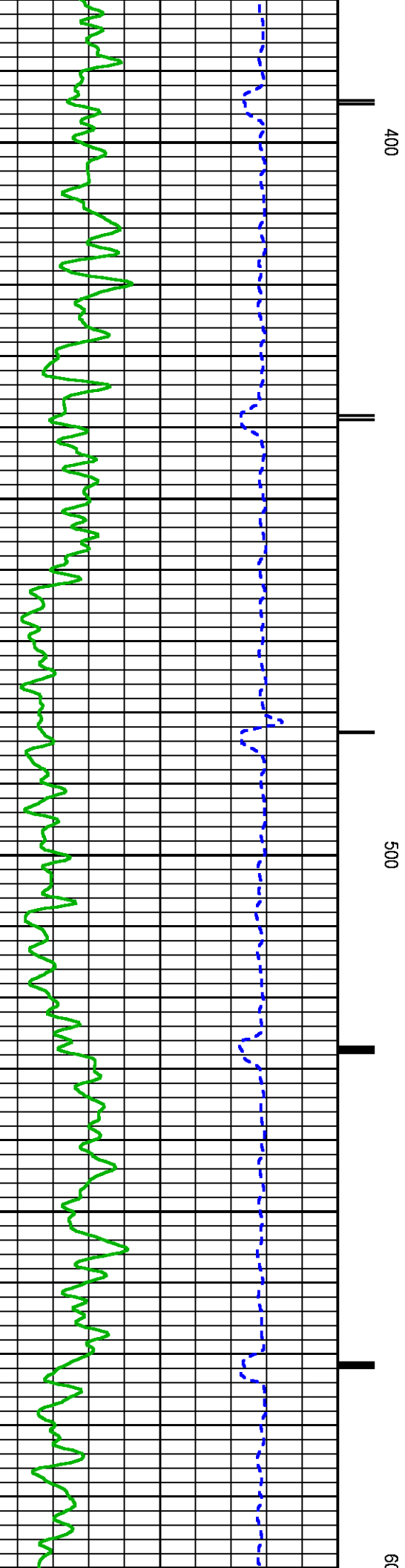
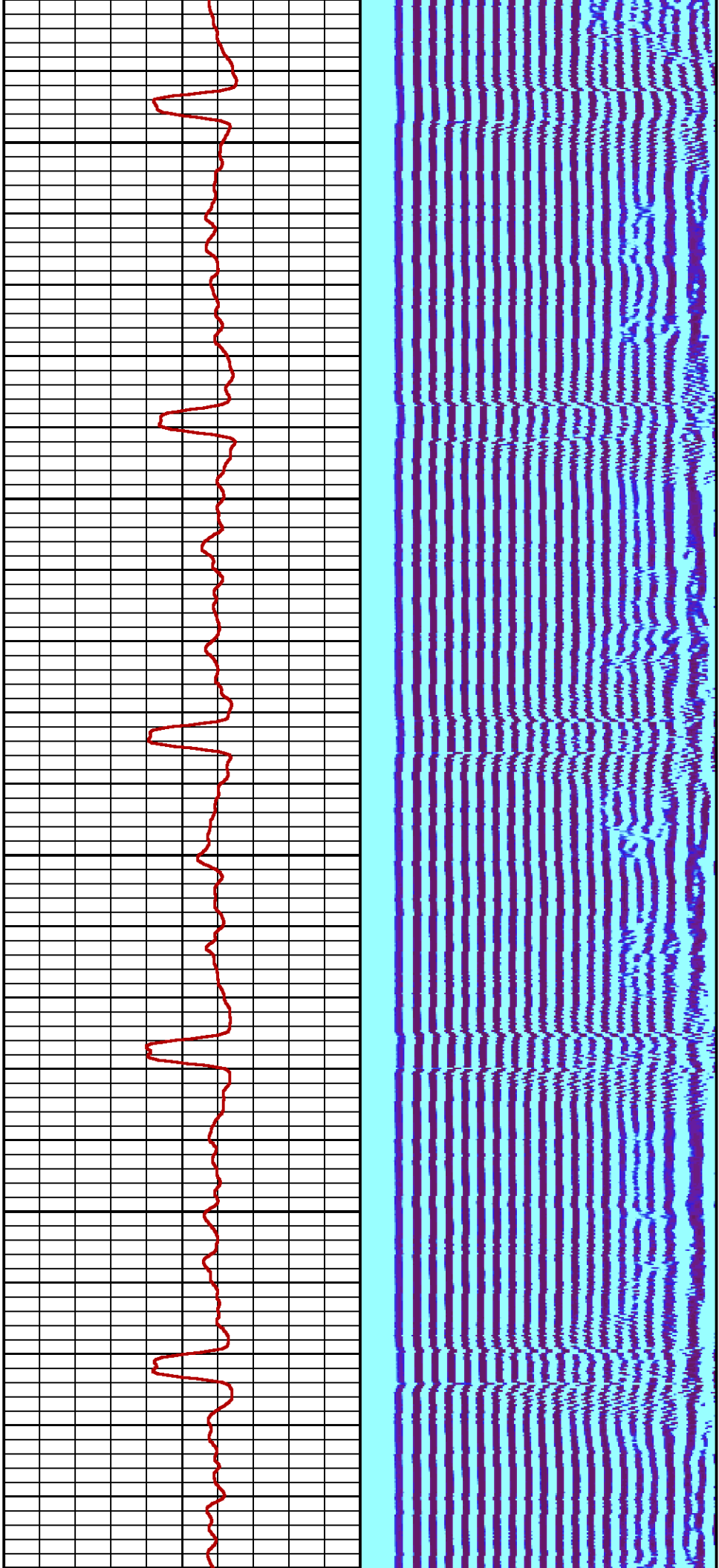
Presentation : H:\6670-1\dat1a\CH0055020\WPX_CRI_PRIMARY PRESENTATION fy.pdf [5"/100' Scale]

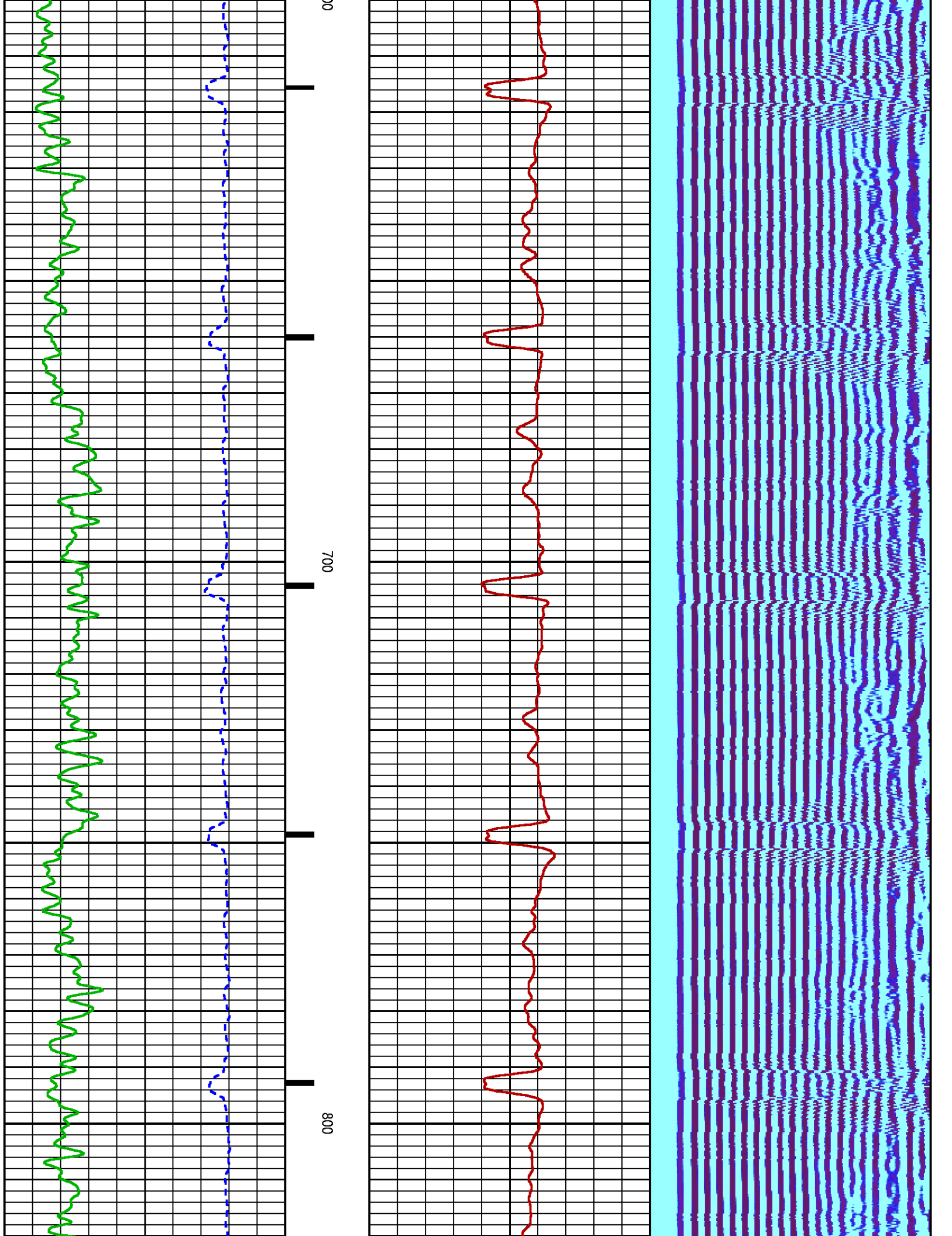
Representation : HL6670:/dat1a/CH095502/WV_X_CDE_PRIMARY REPRESENTATION.Vppl [5 7100 Scale]
Plot Interval : 0 - 12783 Feet

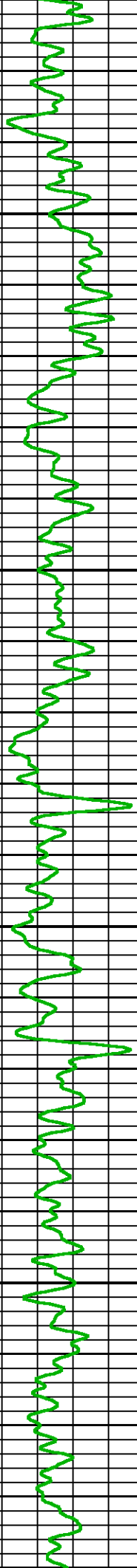
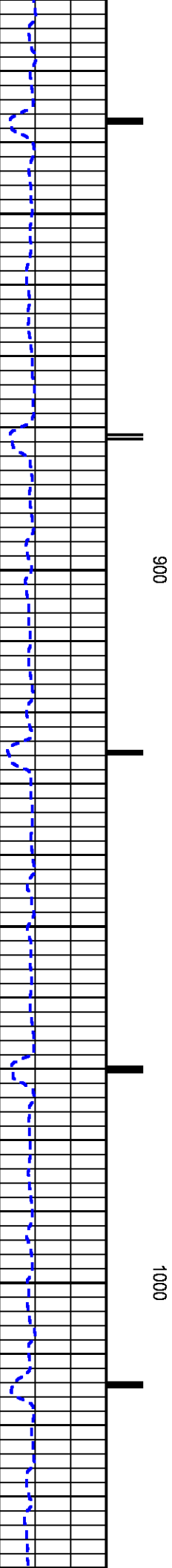
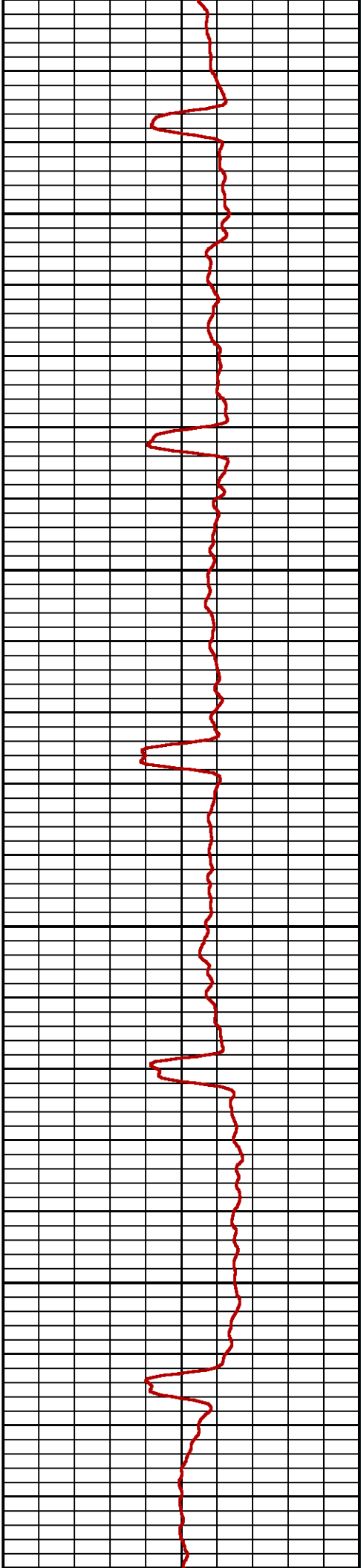
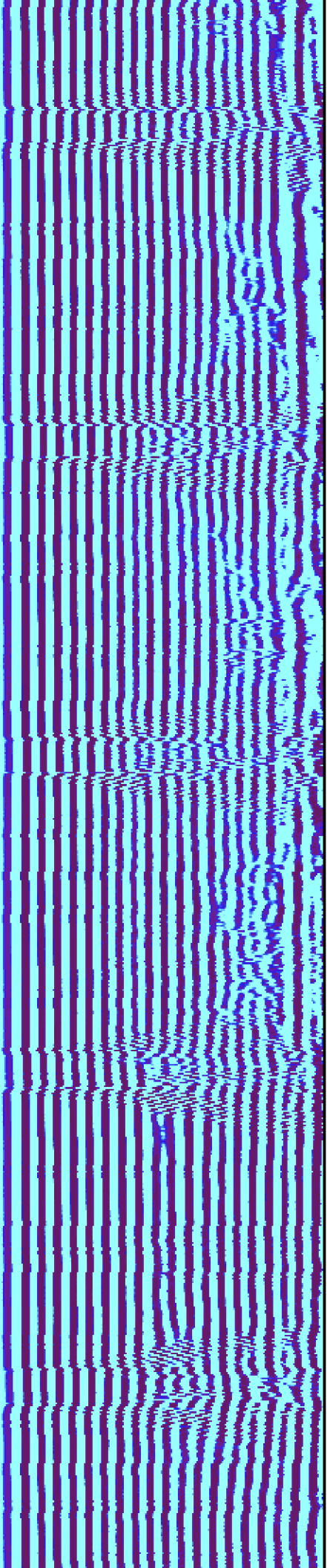
Data File 1 : F1 : HL6670:/dat1a/CH095502/33MAIN.xtf
Created On : Mar 23 13:59:38 2015
Company : WPX ENERGY
Well : FEDERAL RGU 33-23-198
Field : SULPHUR CREEK
File Interval : 8.25 - 12792 Feet
OCT : n012e

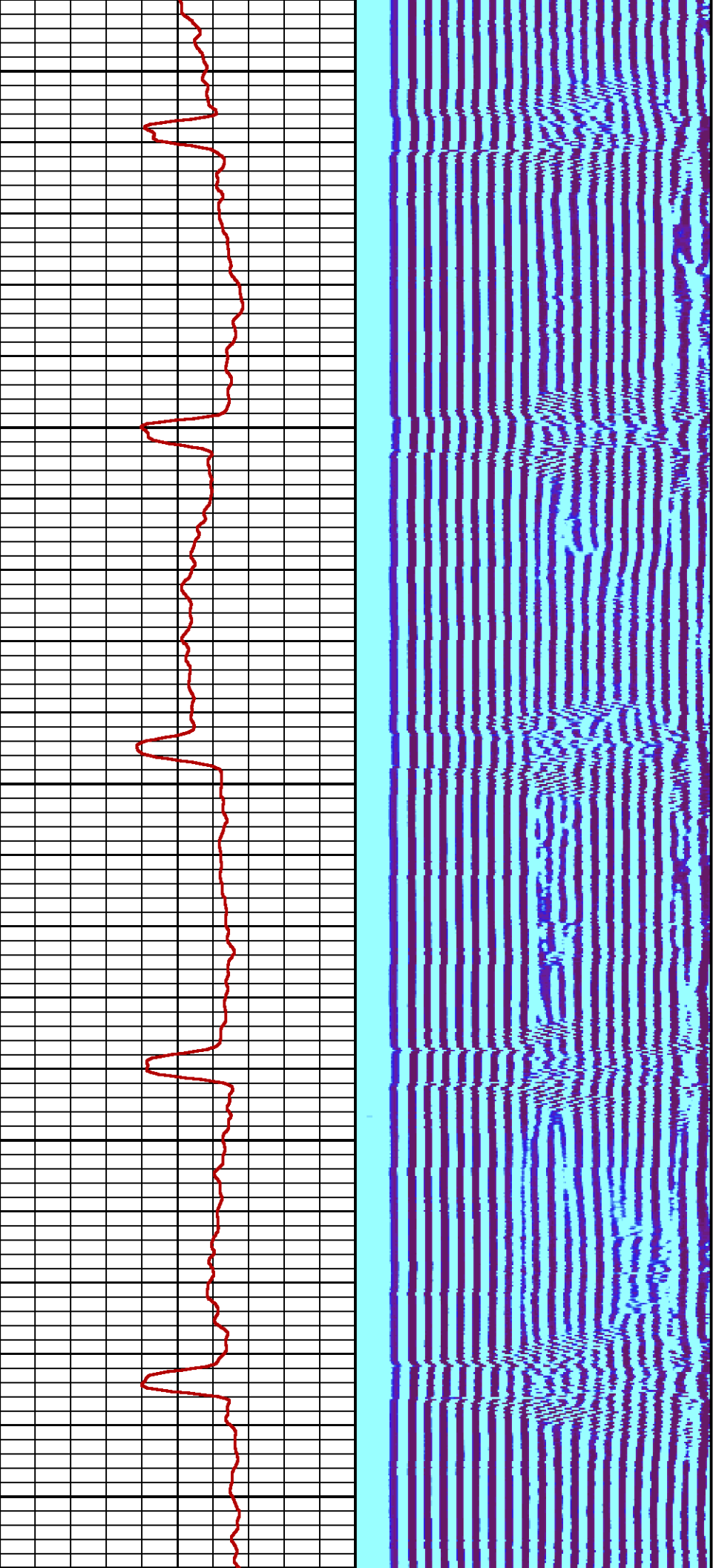






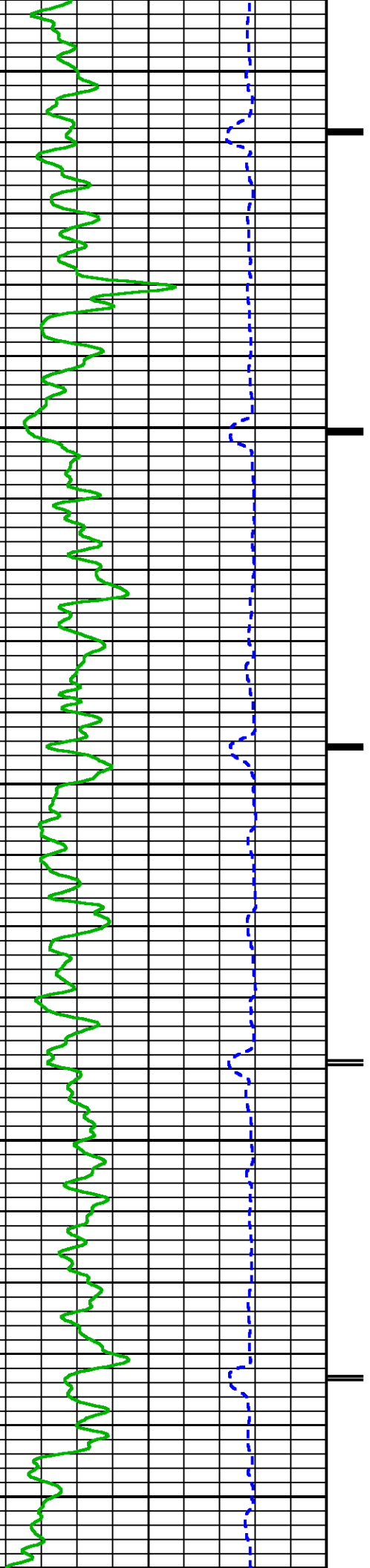


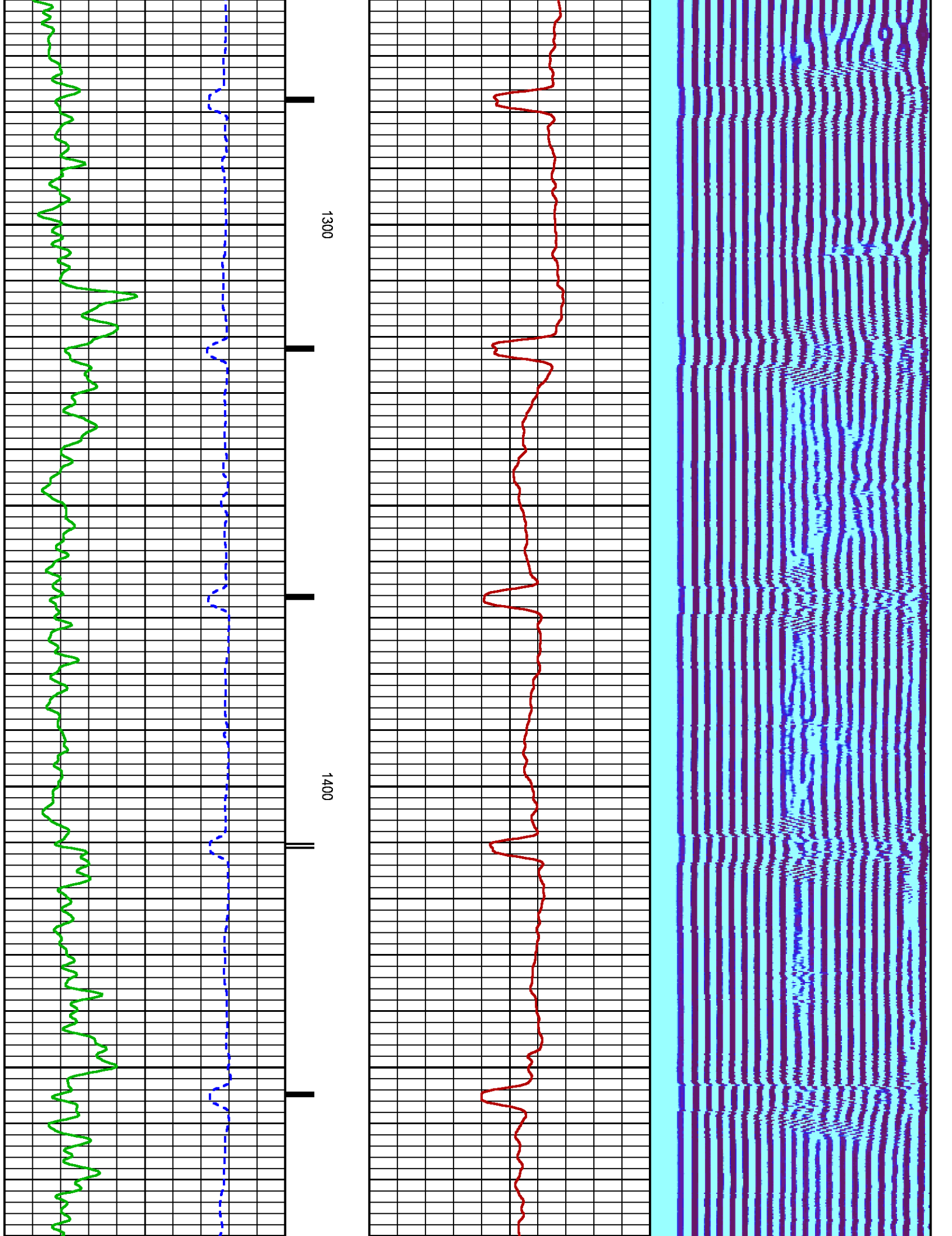


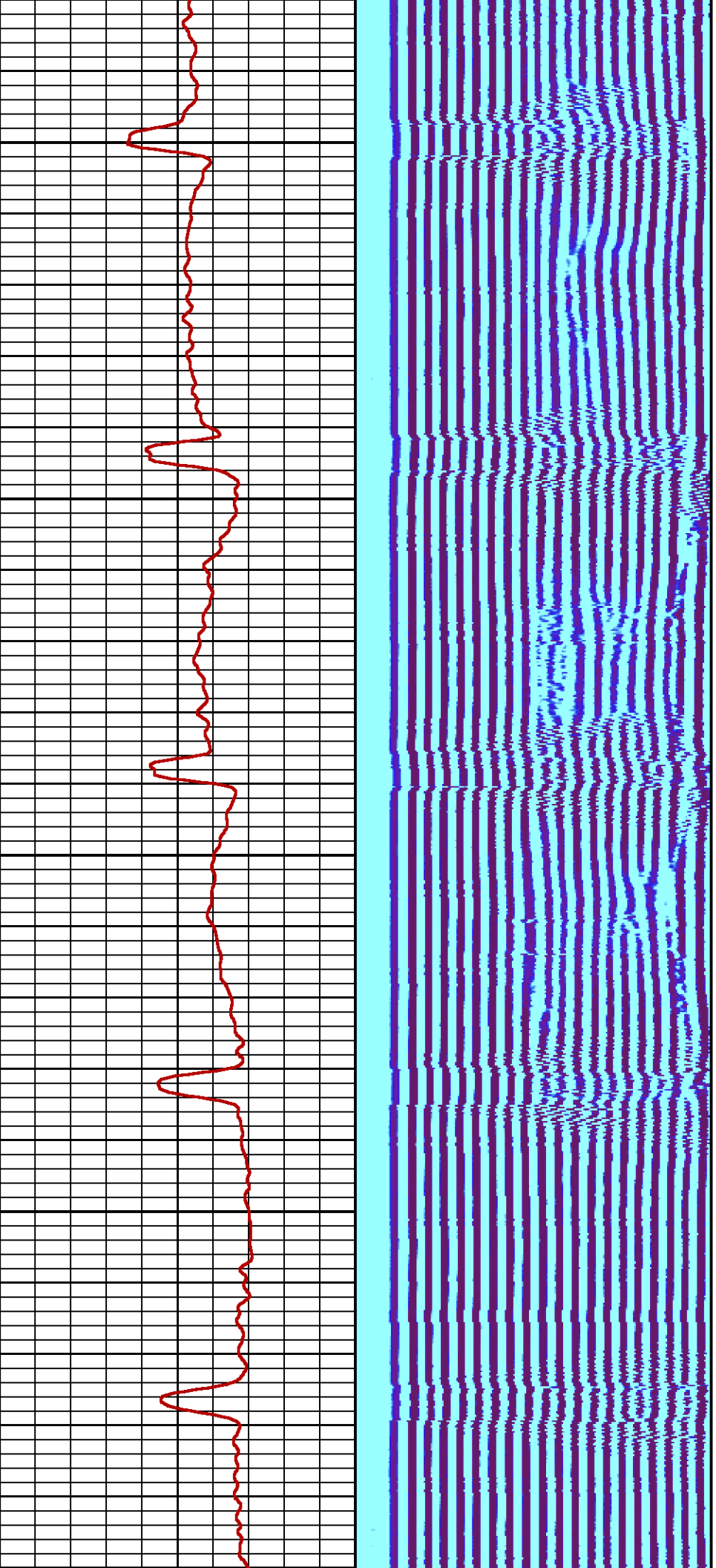


1100

1200



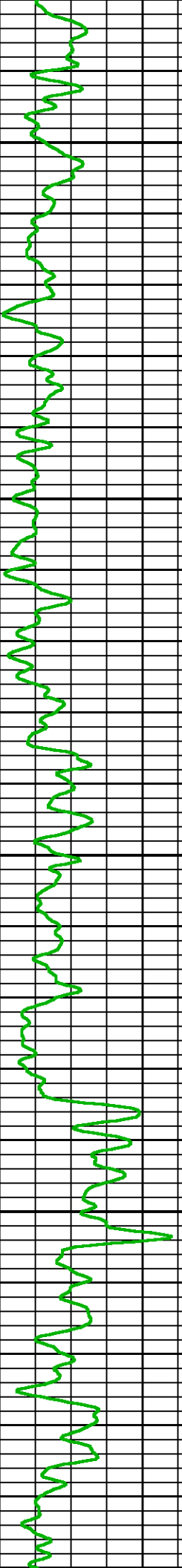
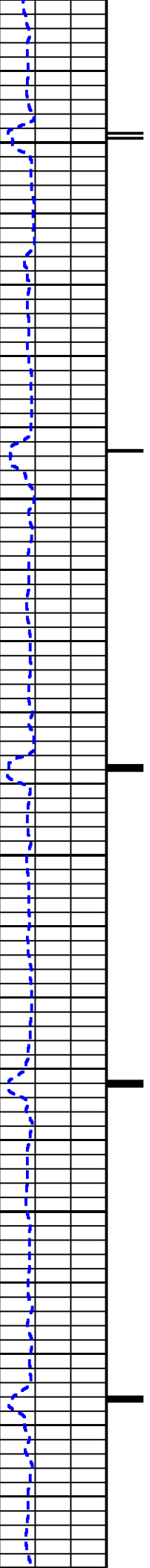


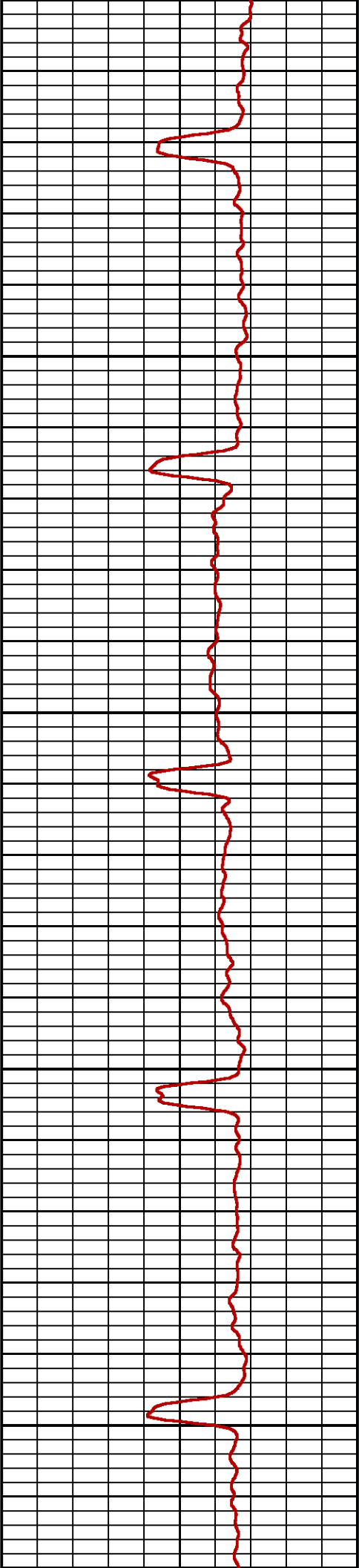
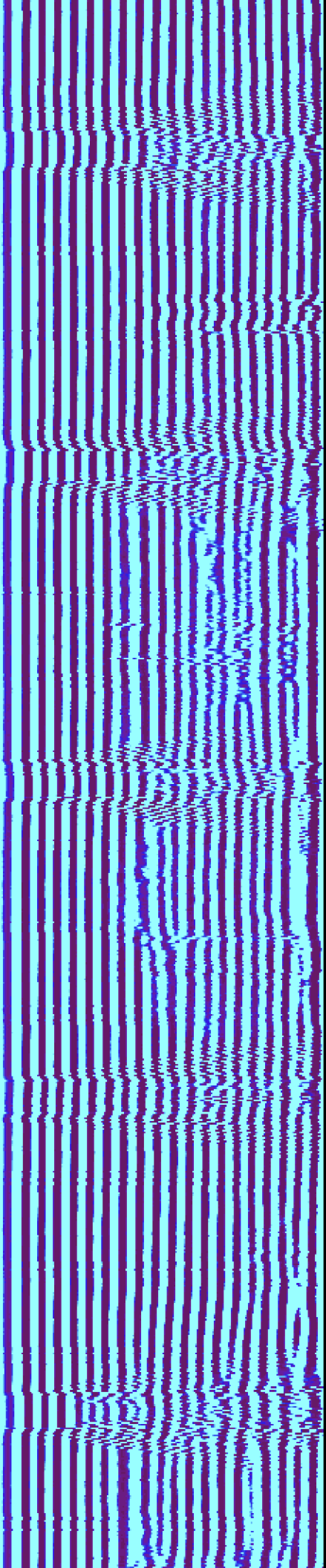


1500

1600

17

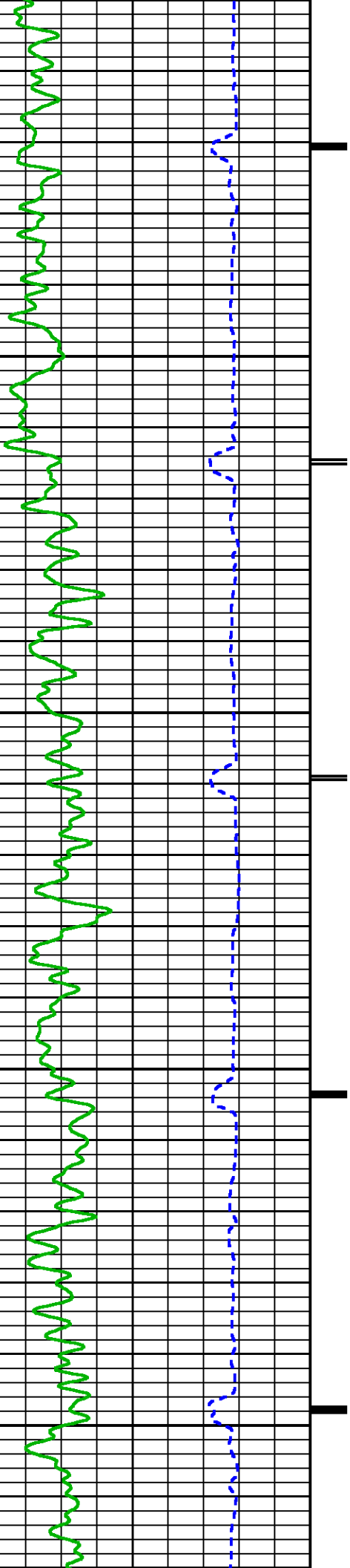


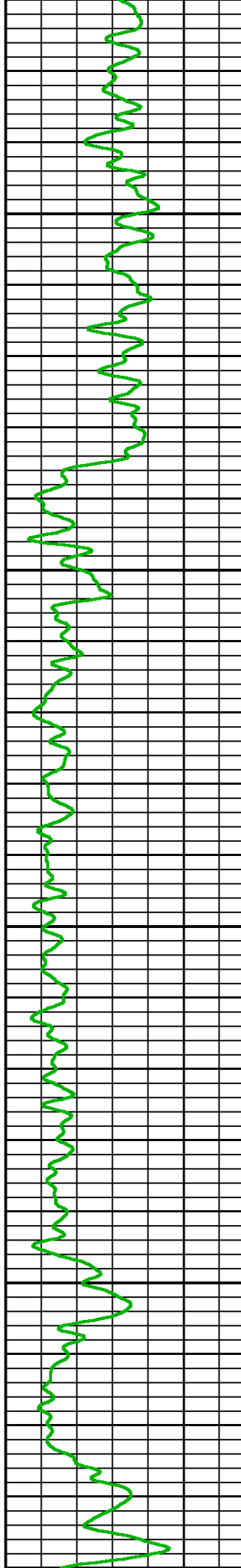
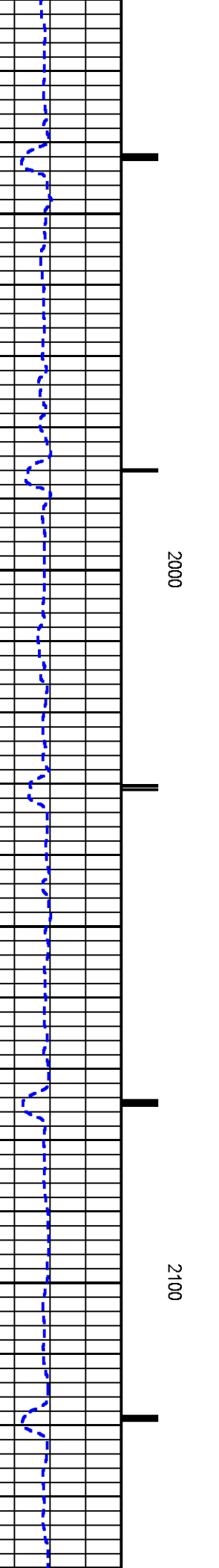
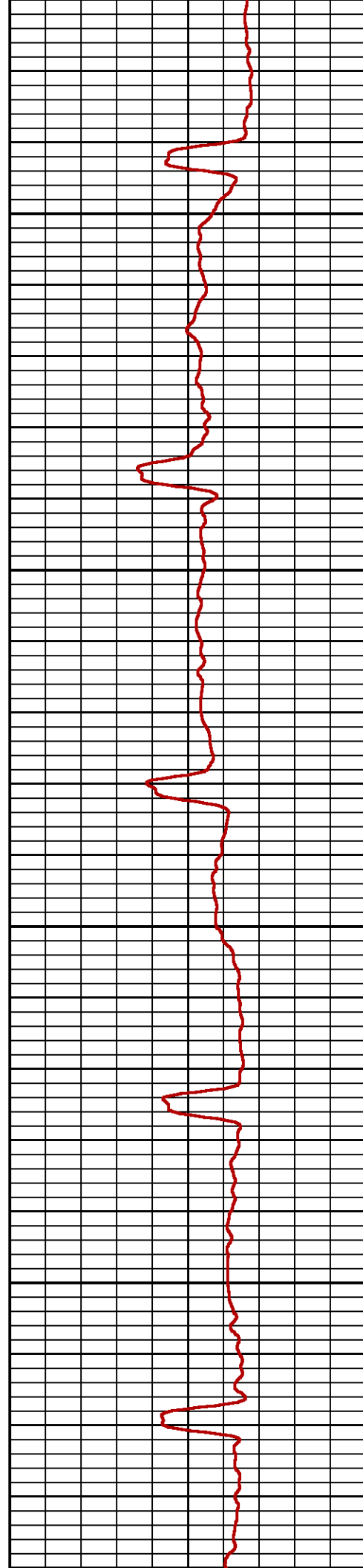
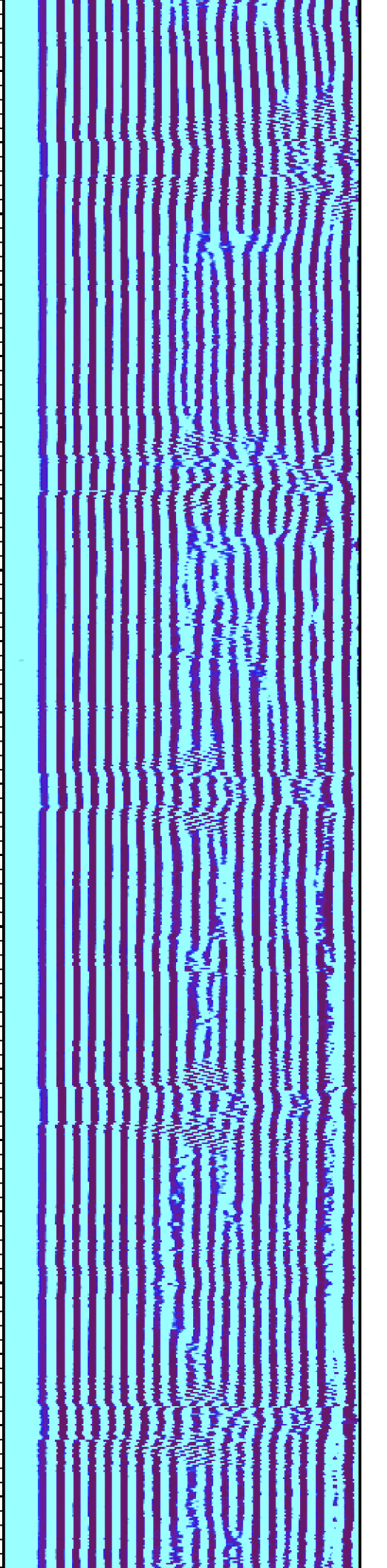


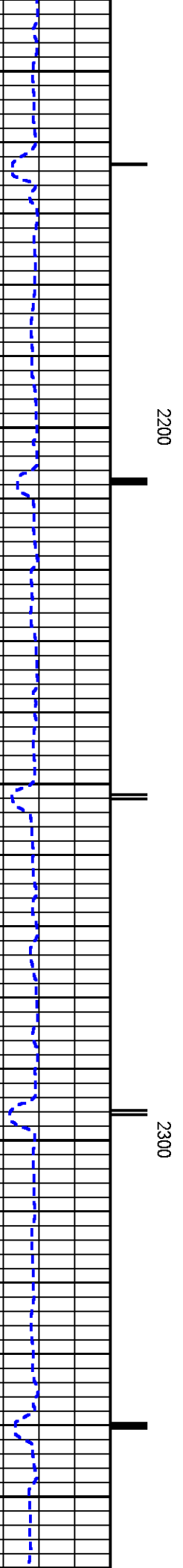
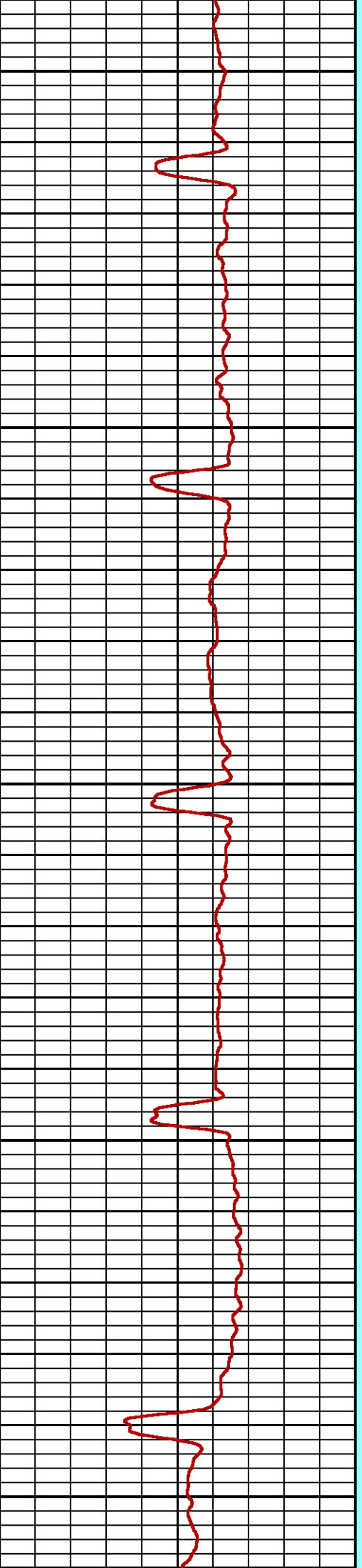
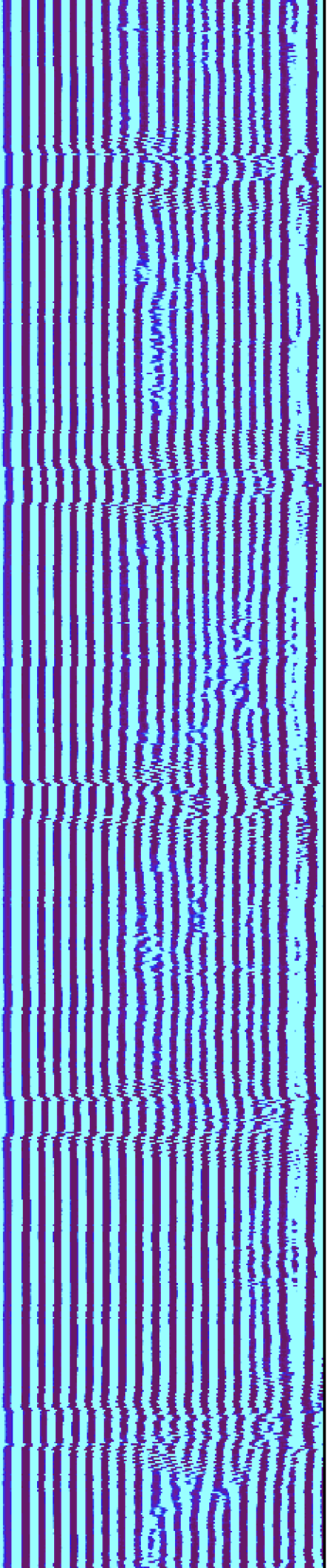
00

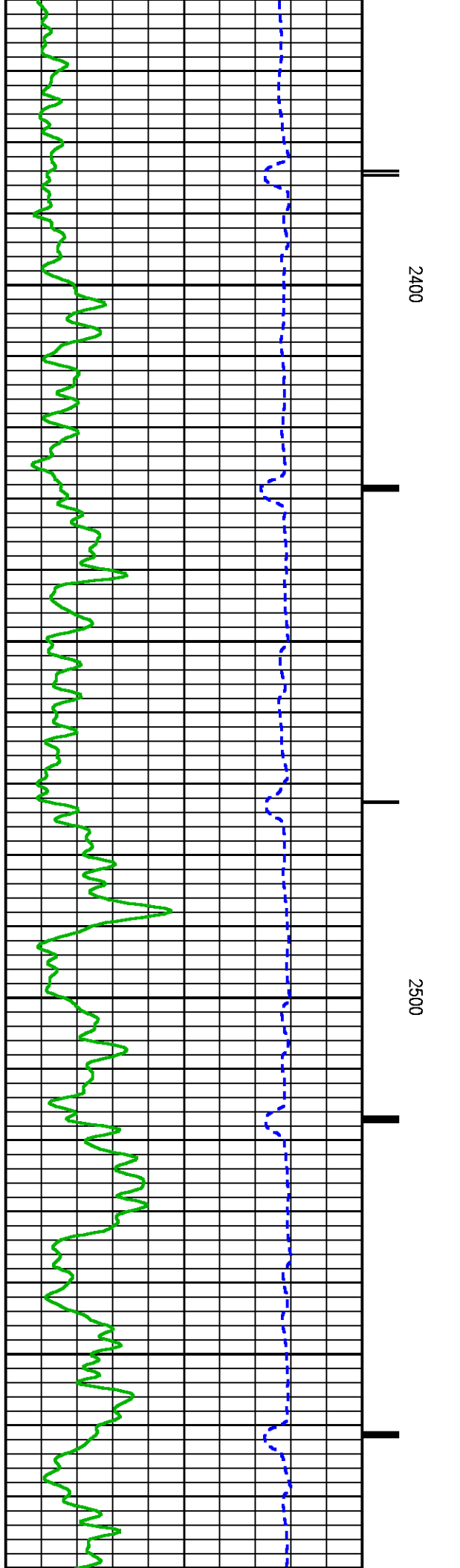
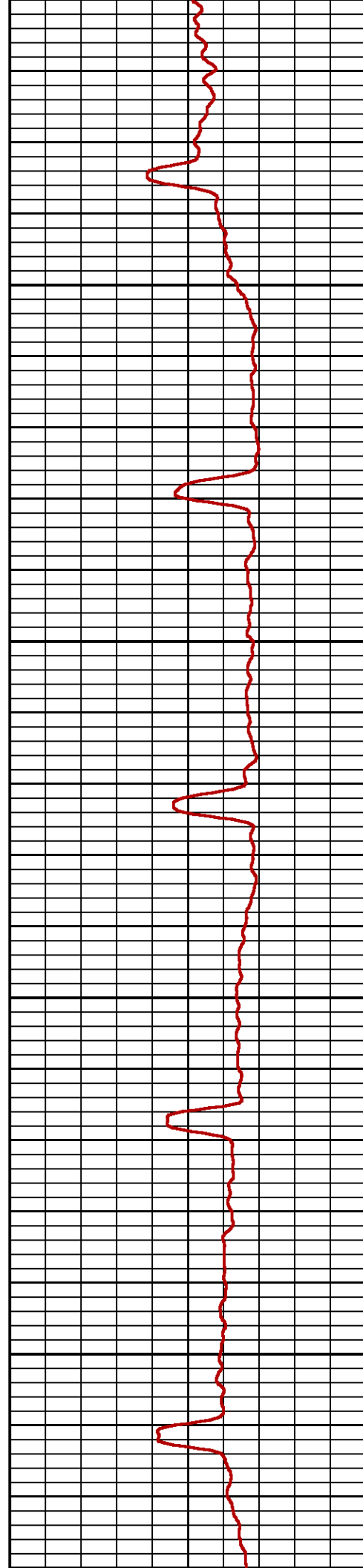
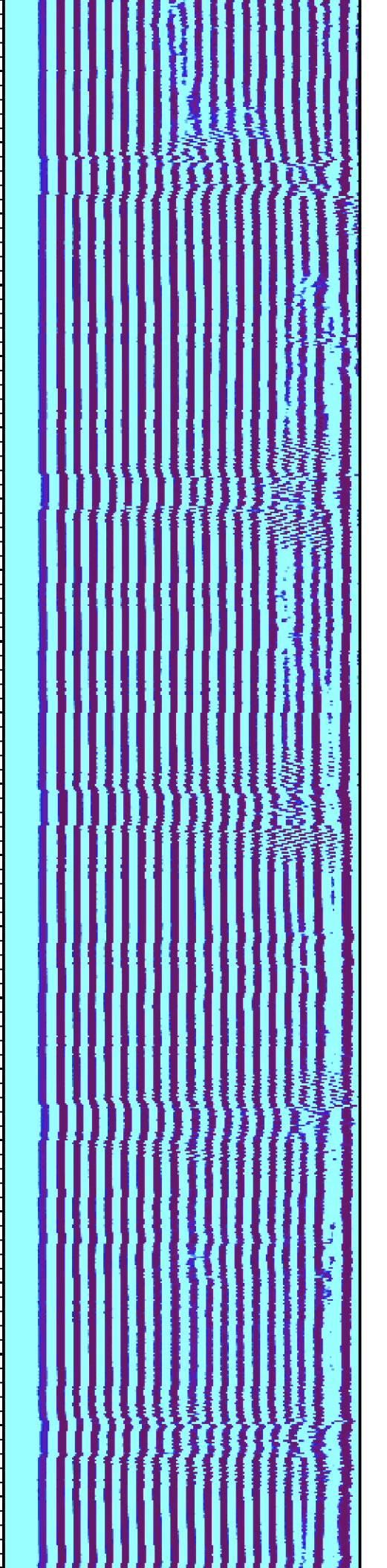
1800

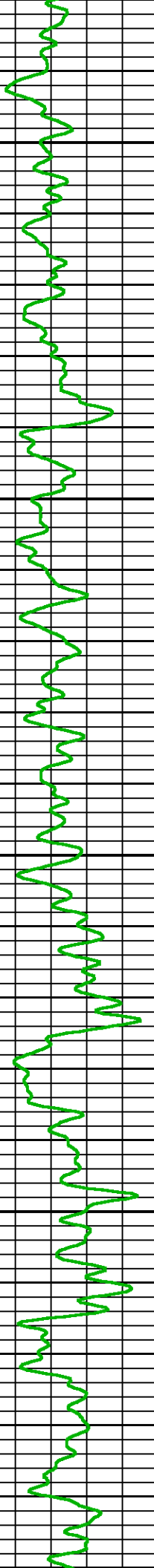
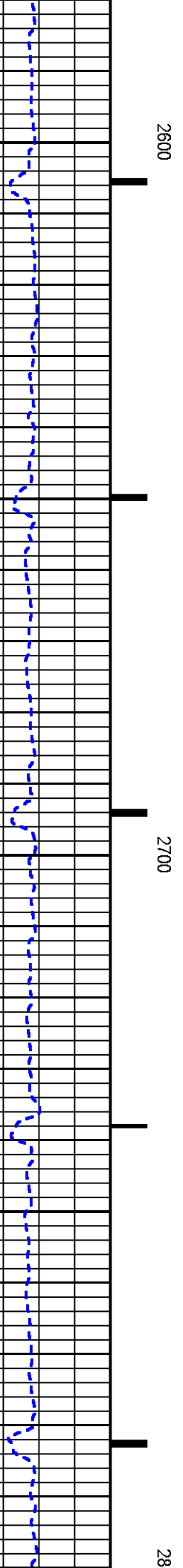
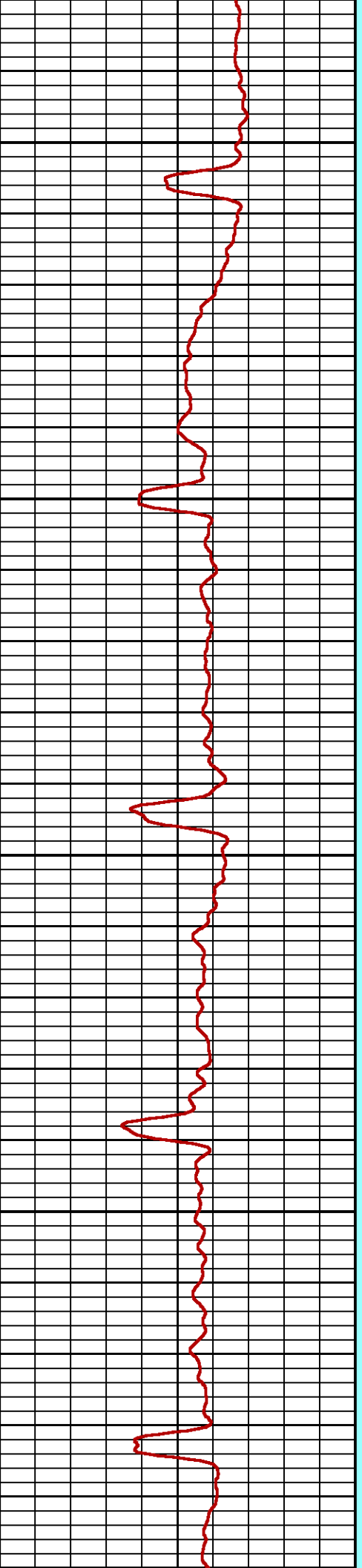
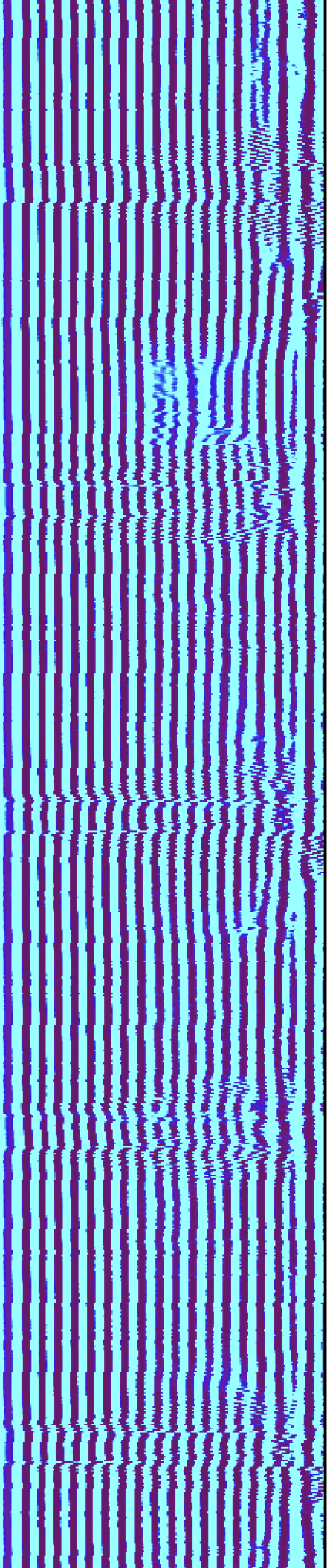
1900

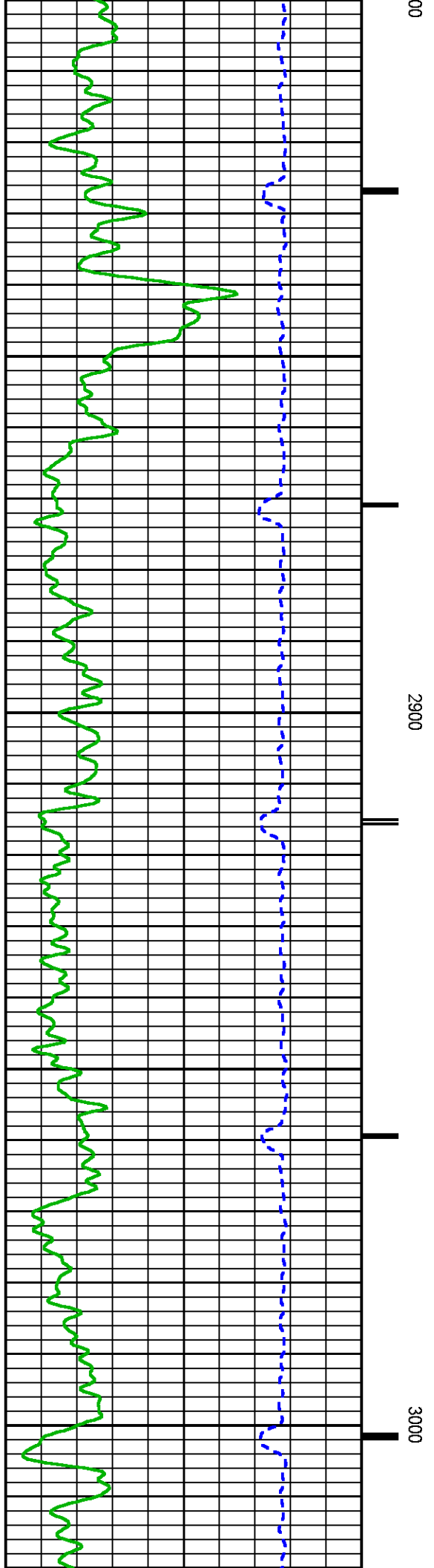
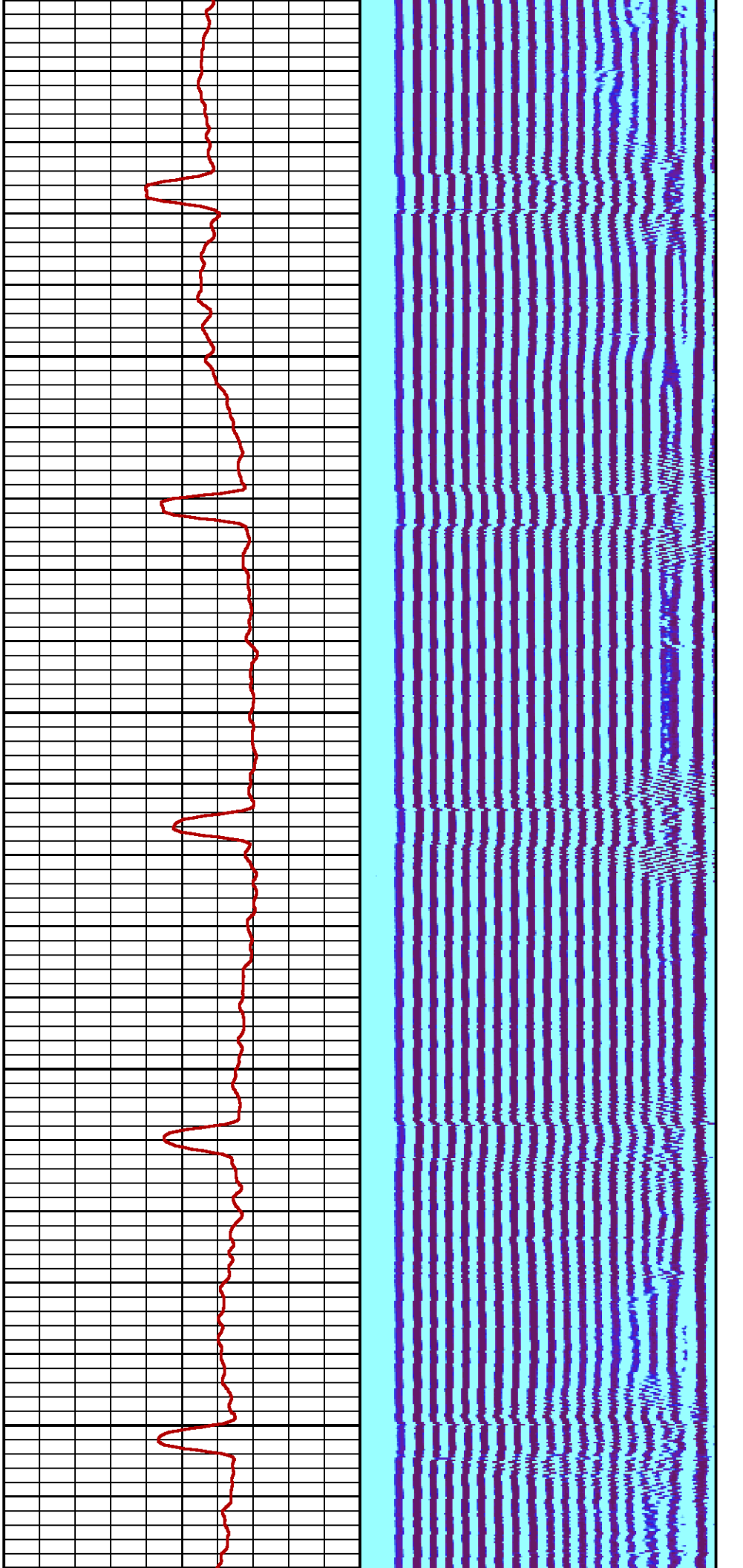


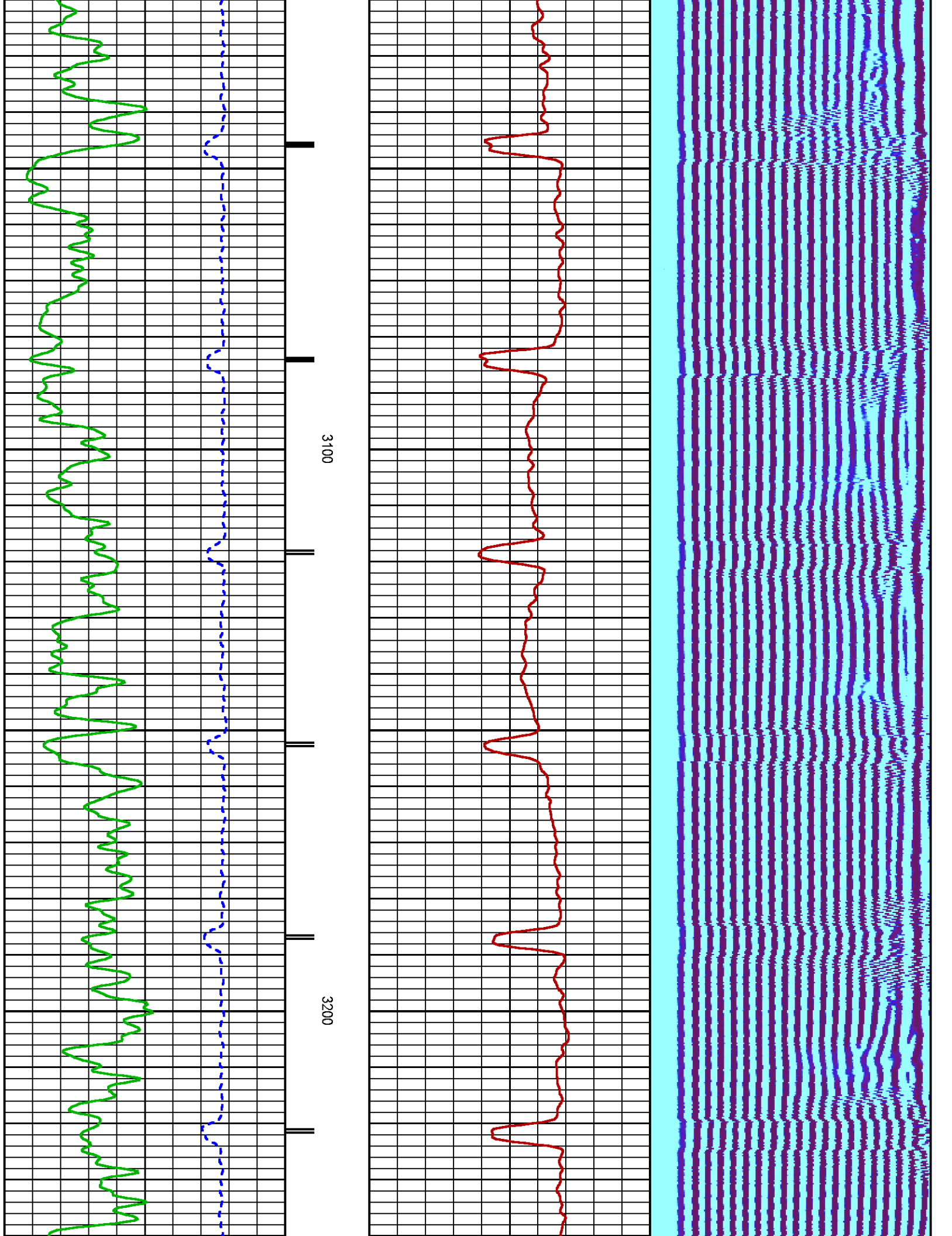


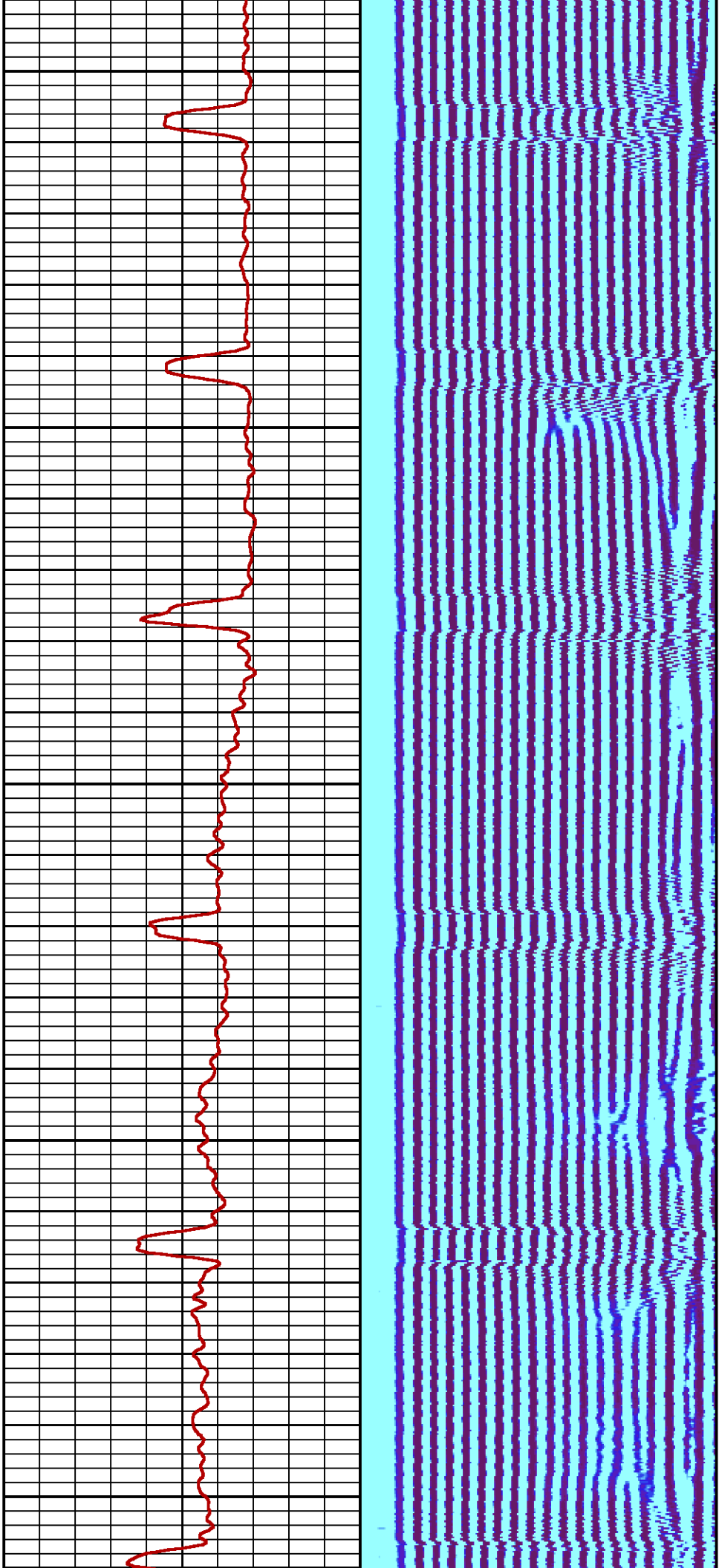






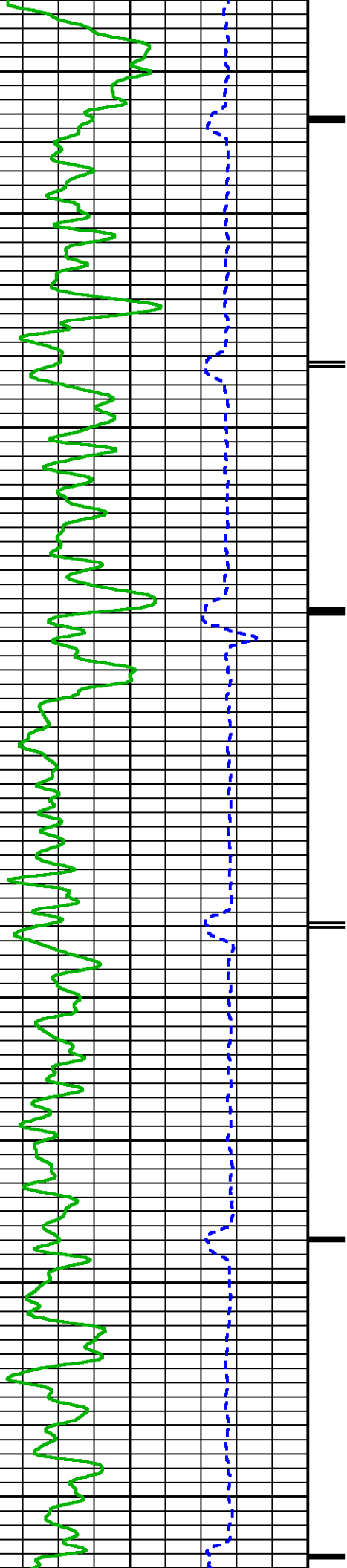


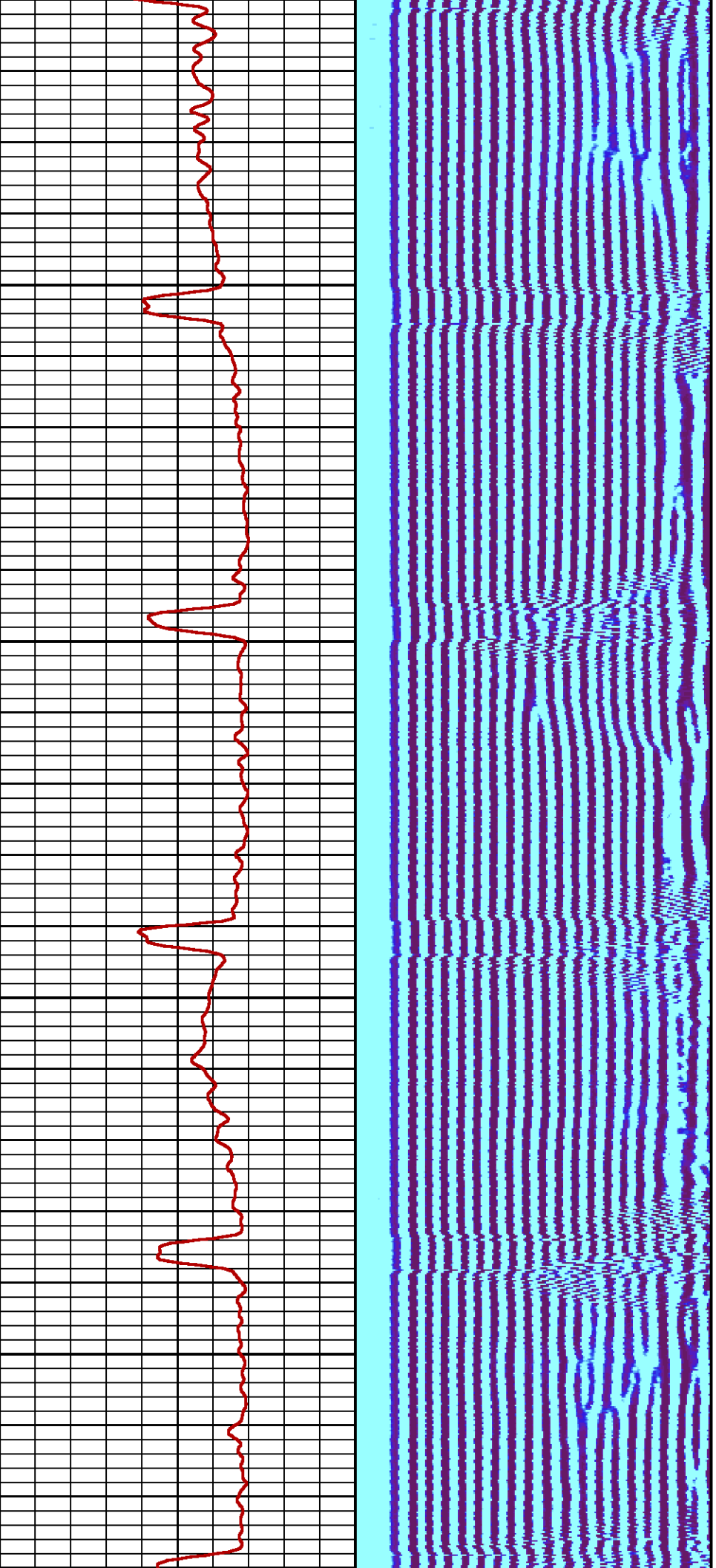




3300

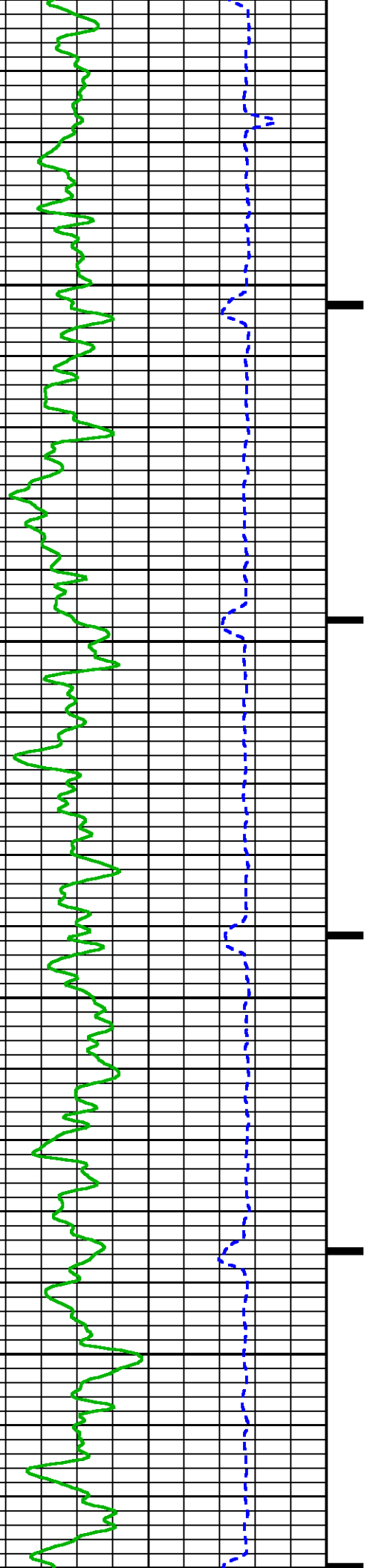
3400

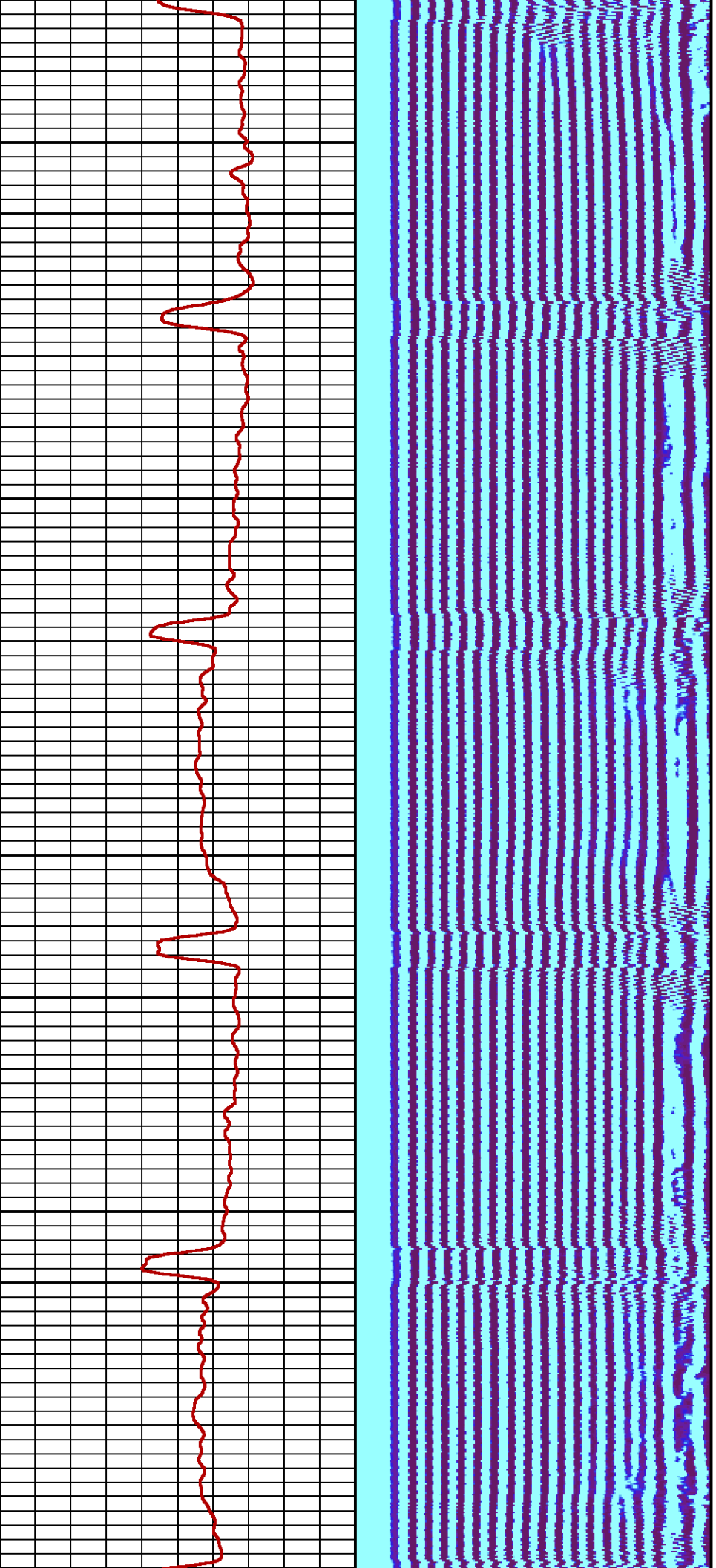




3500

3600

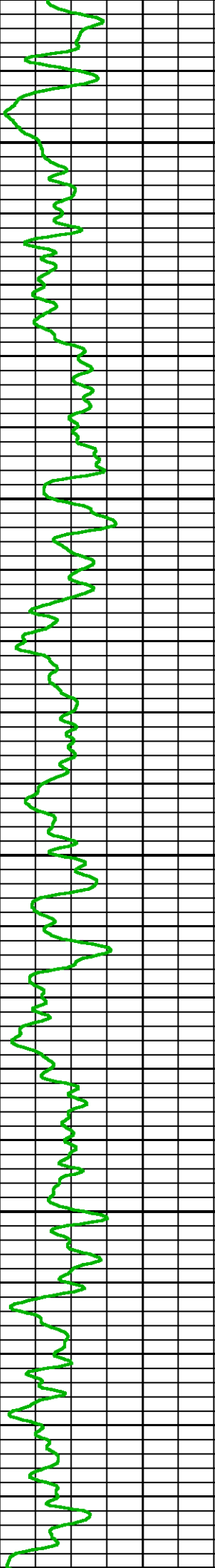
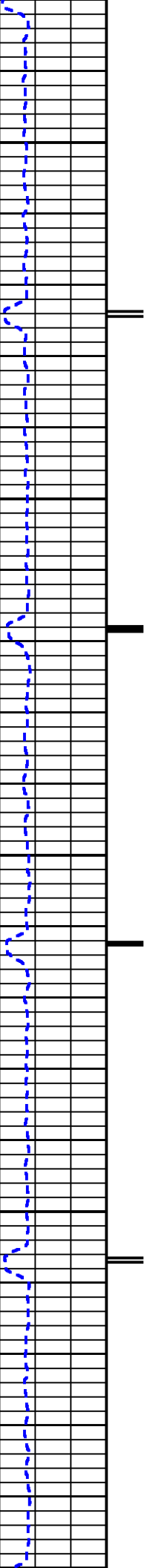


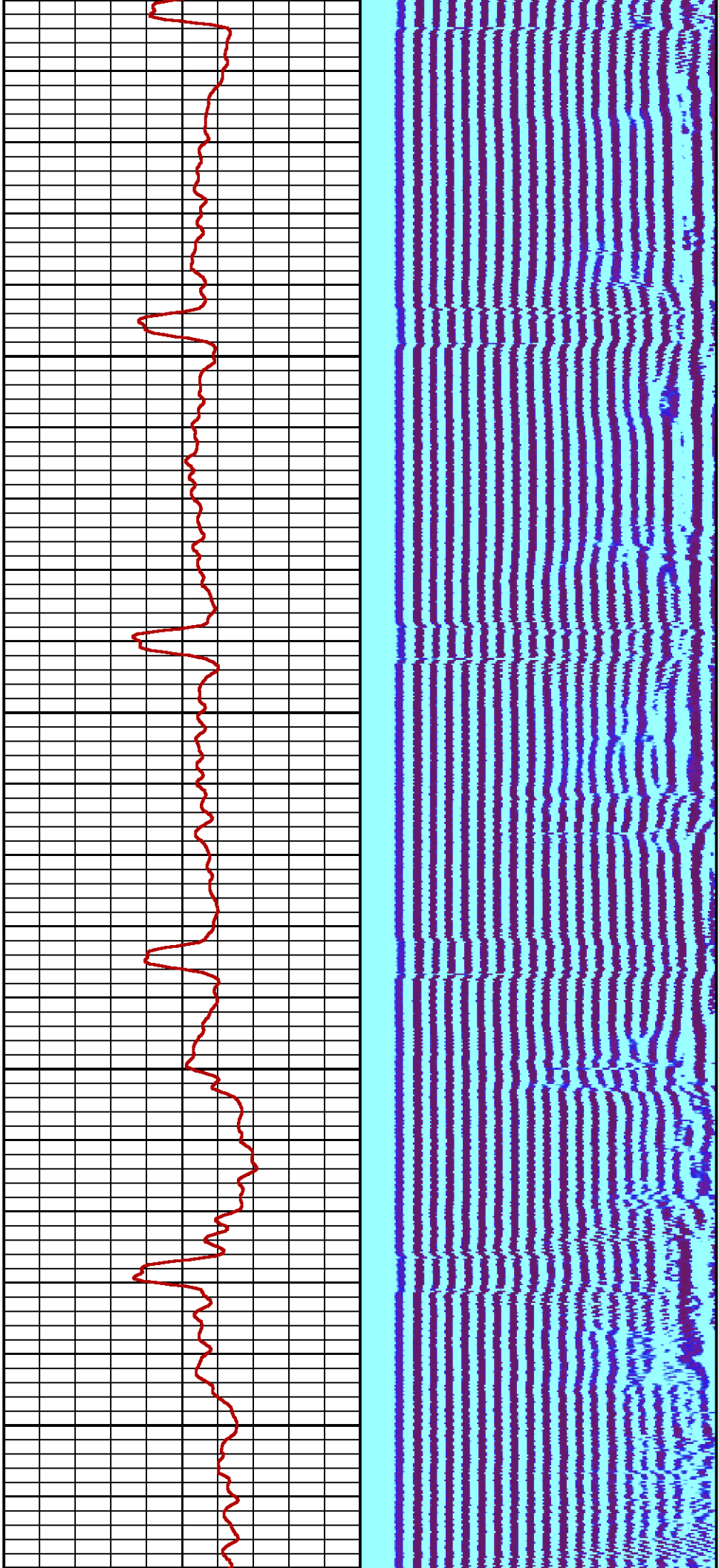


3700

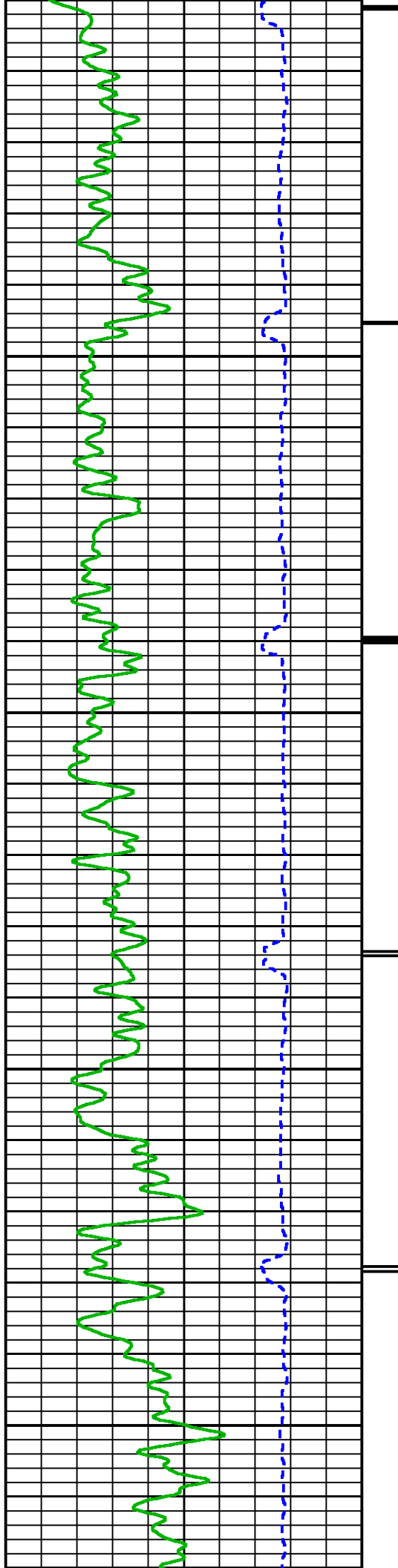
3800

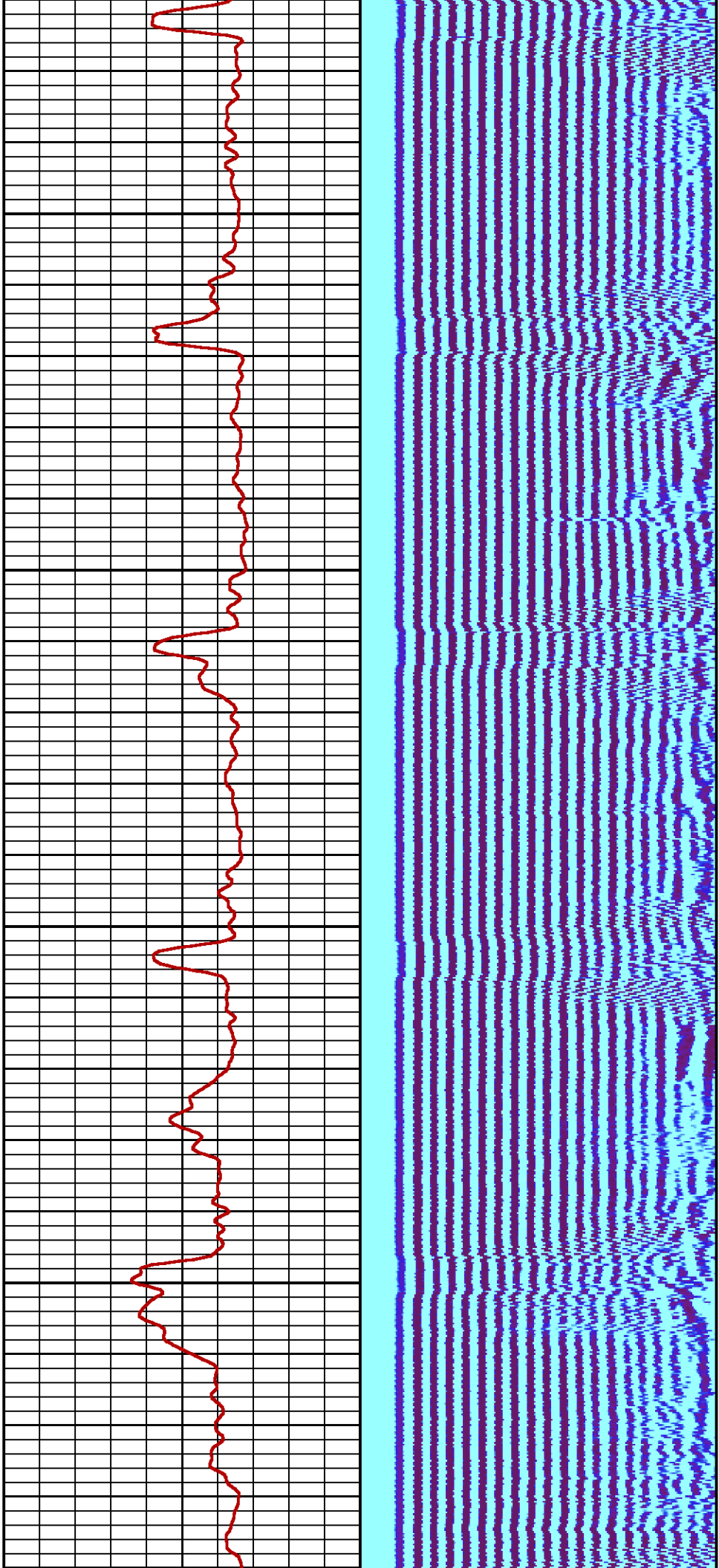
39





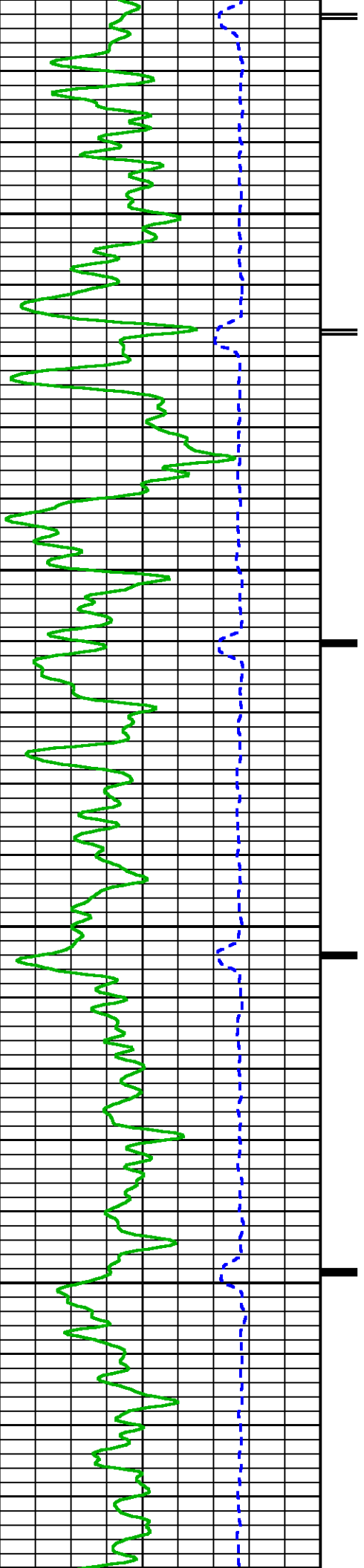
00 4000 4100

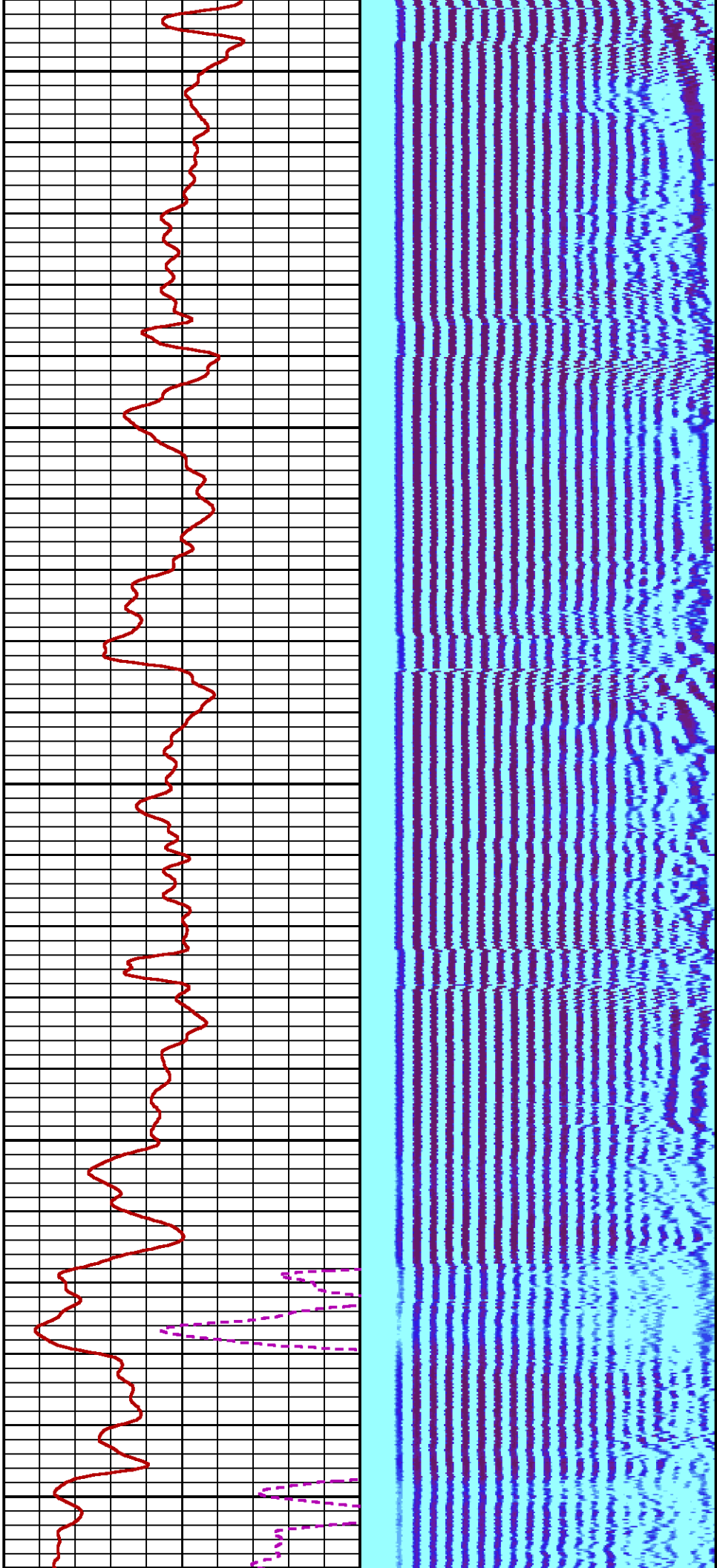




4200

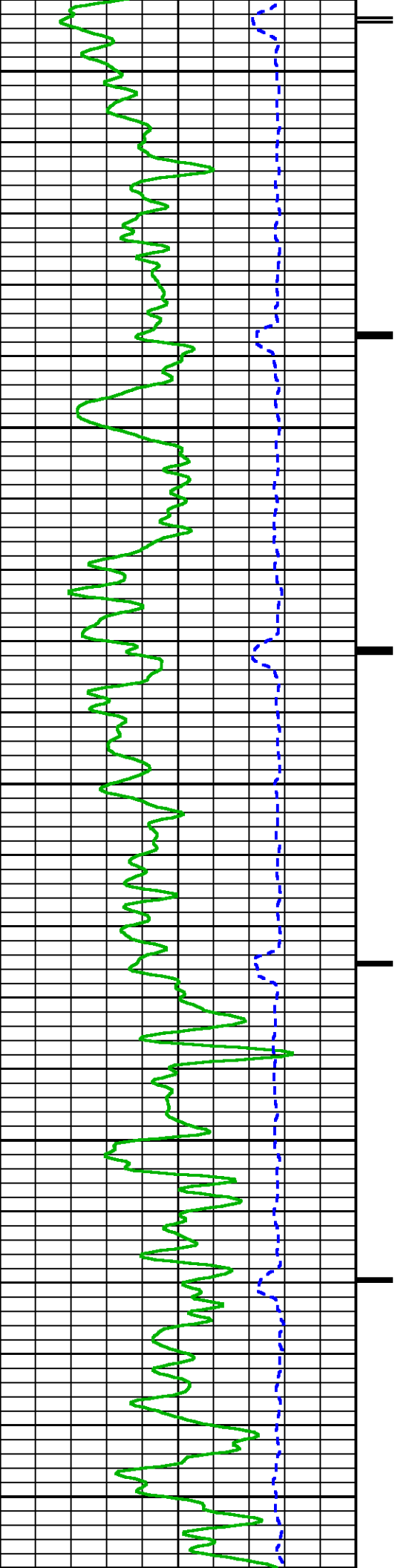
4300

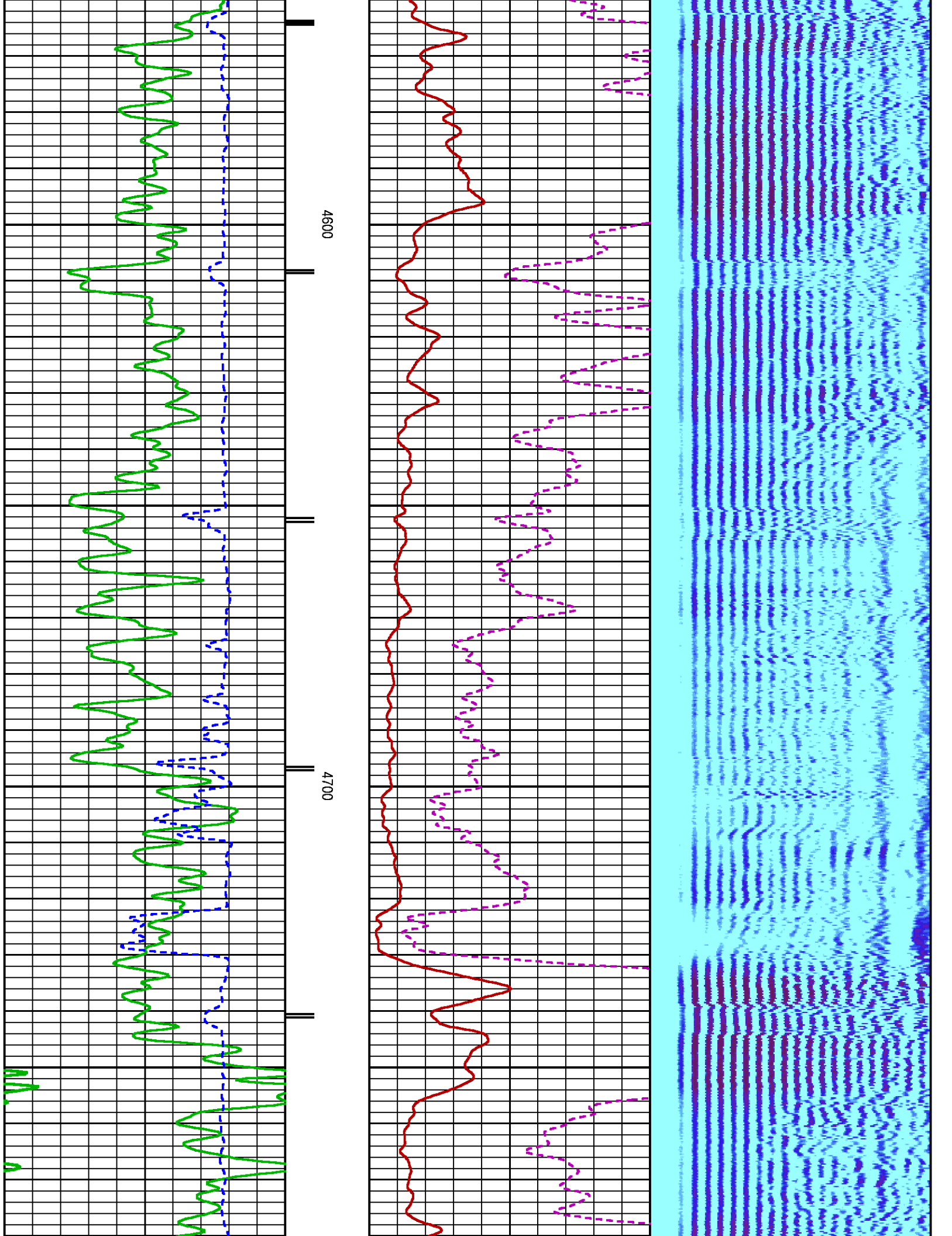


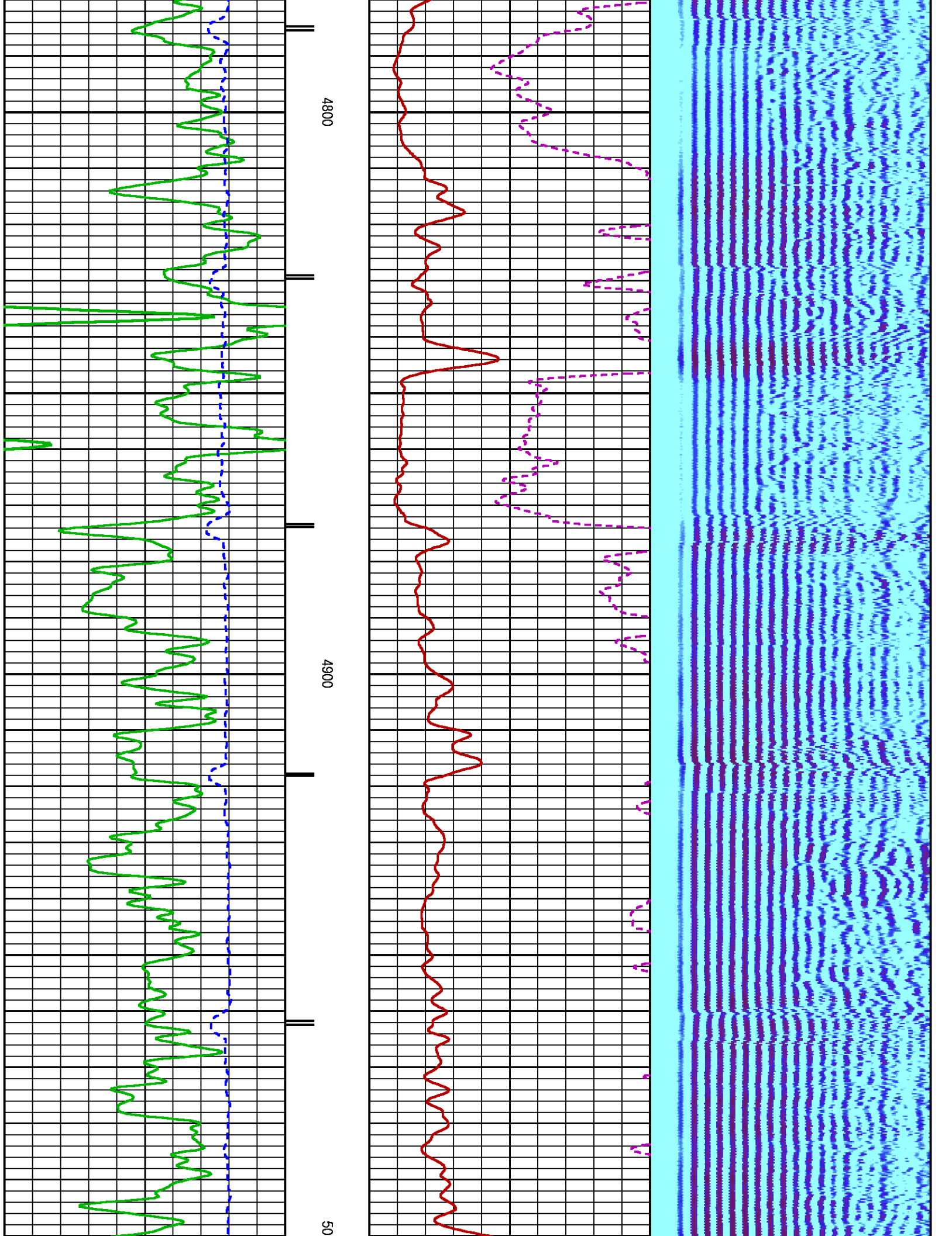


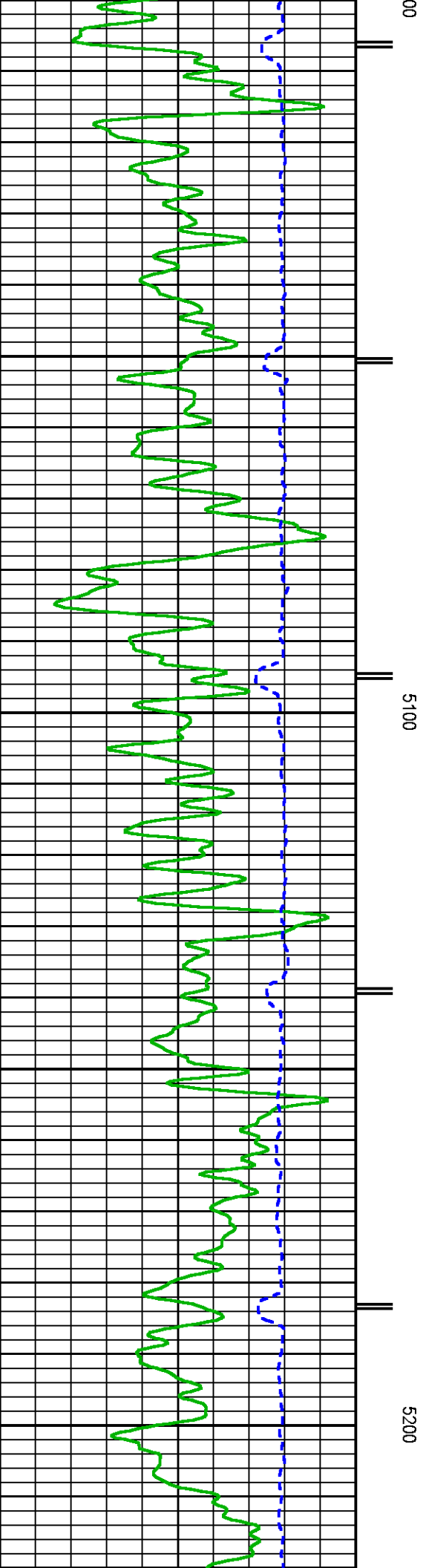
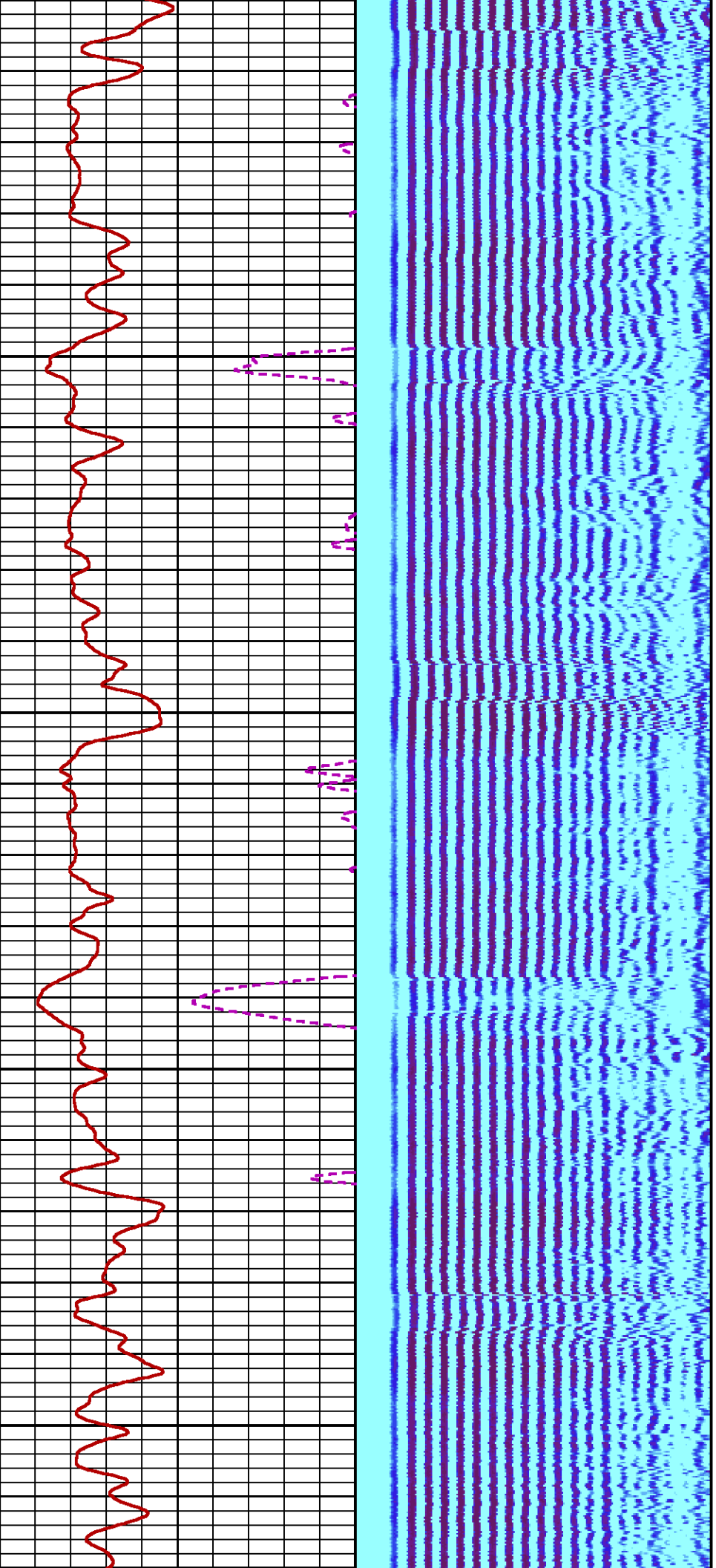
4400

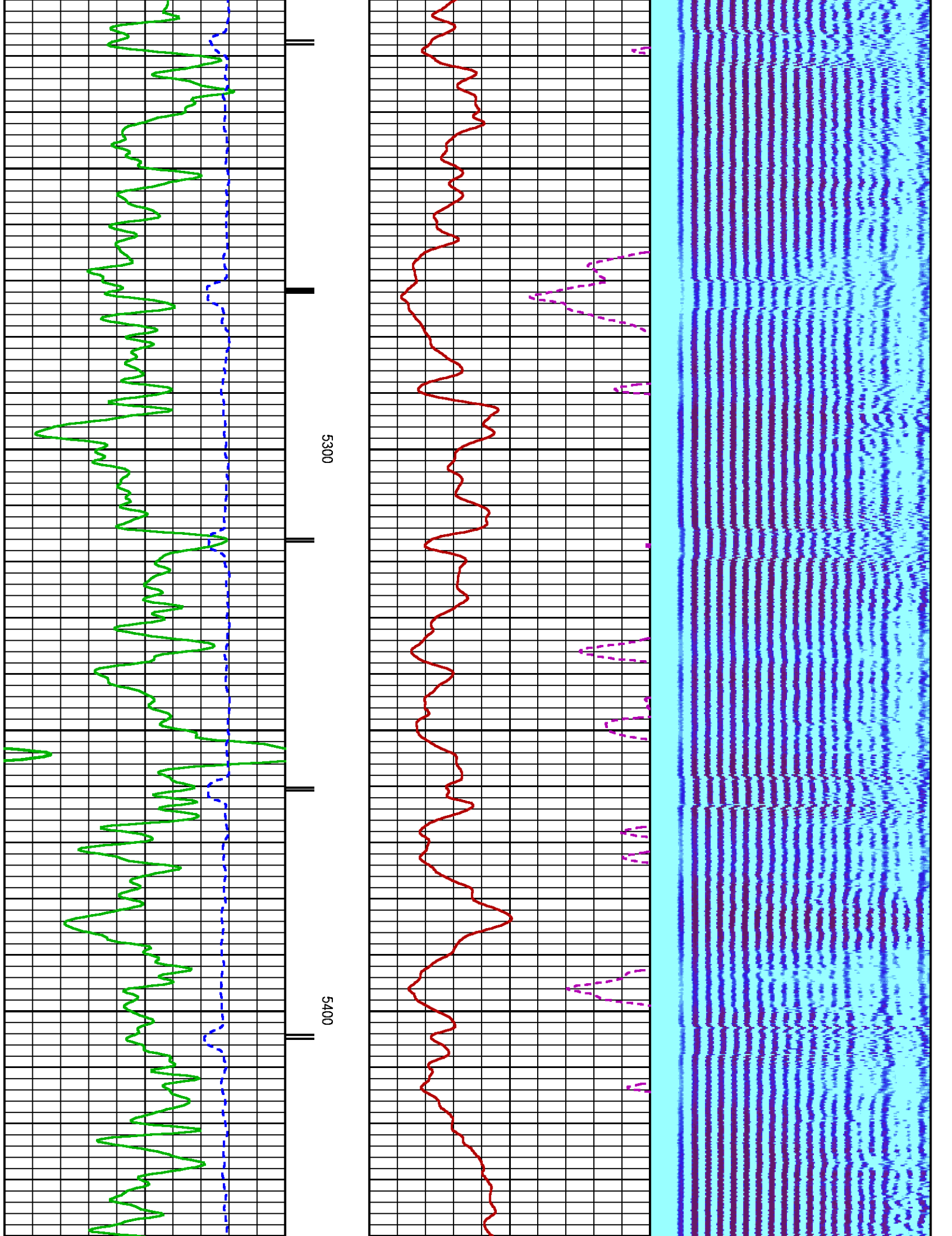
4500

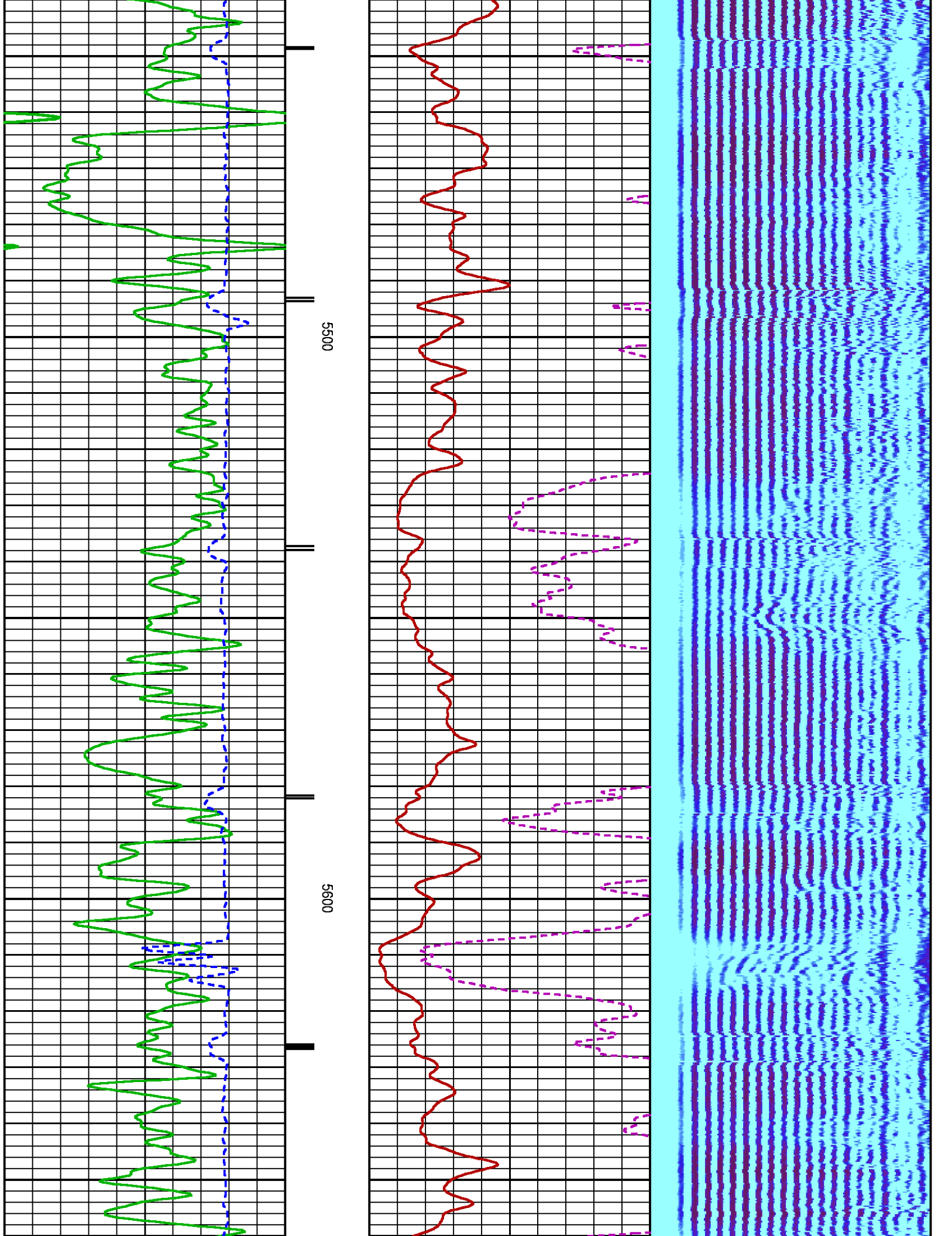


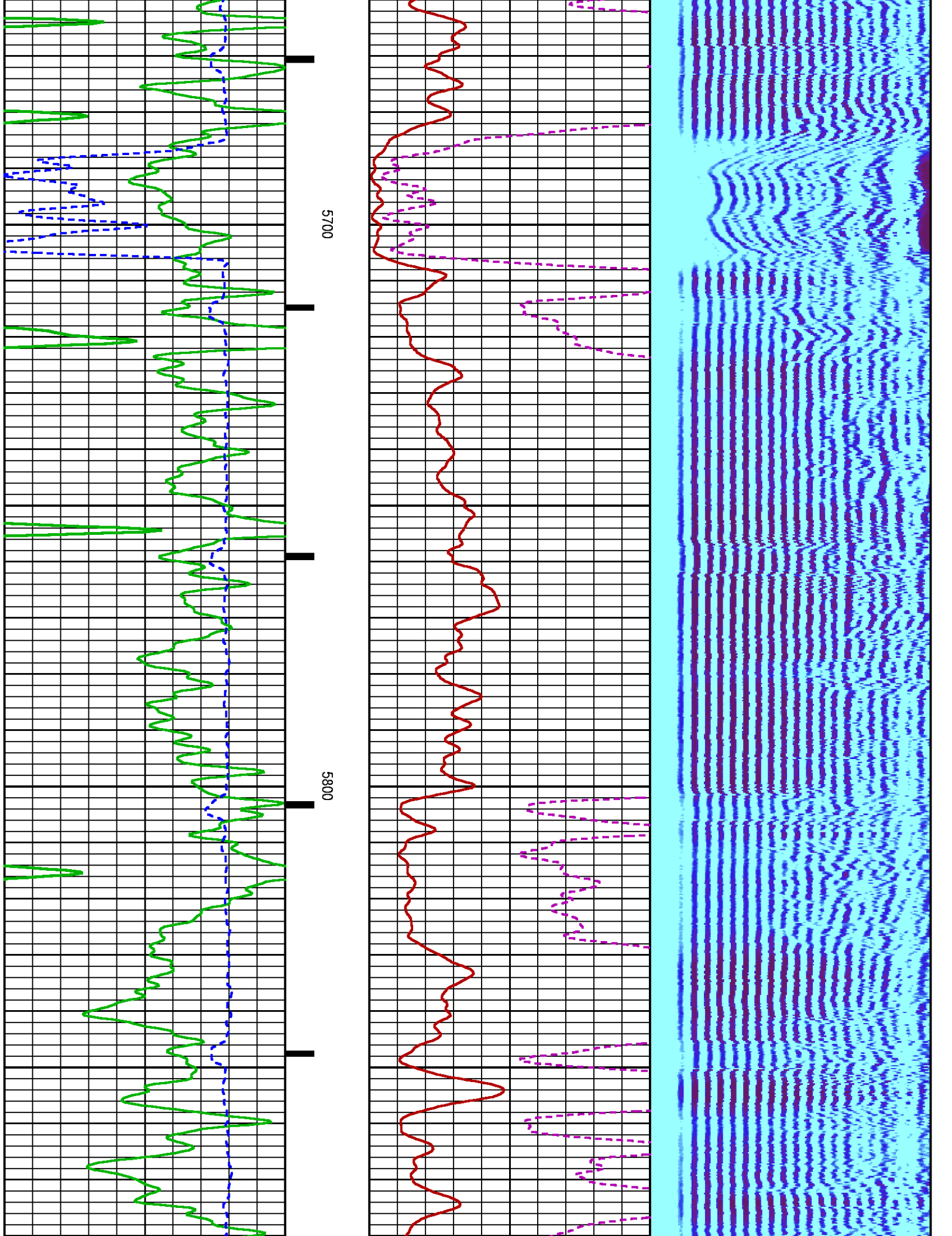


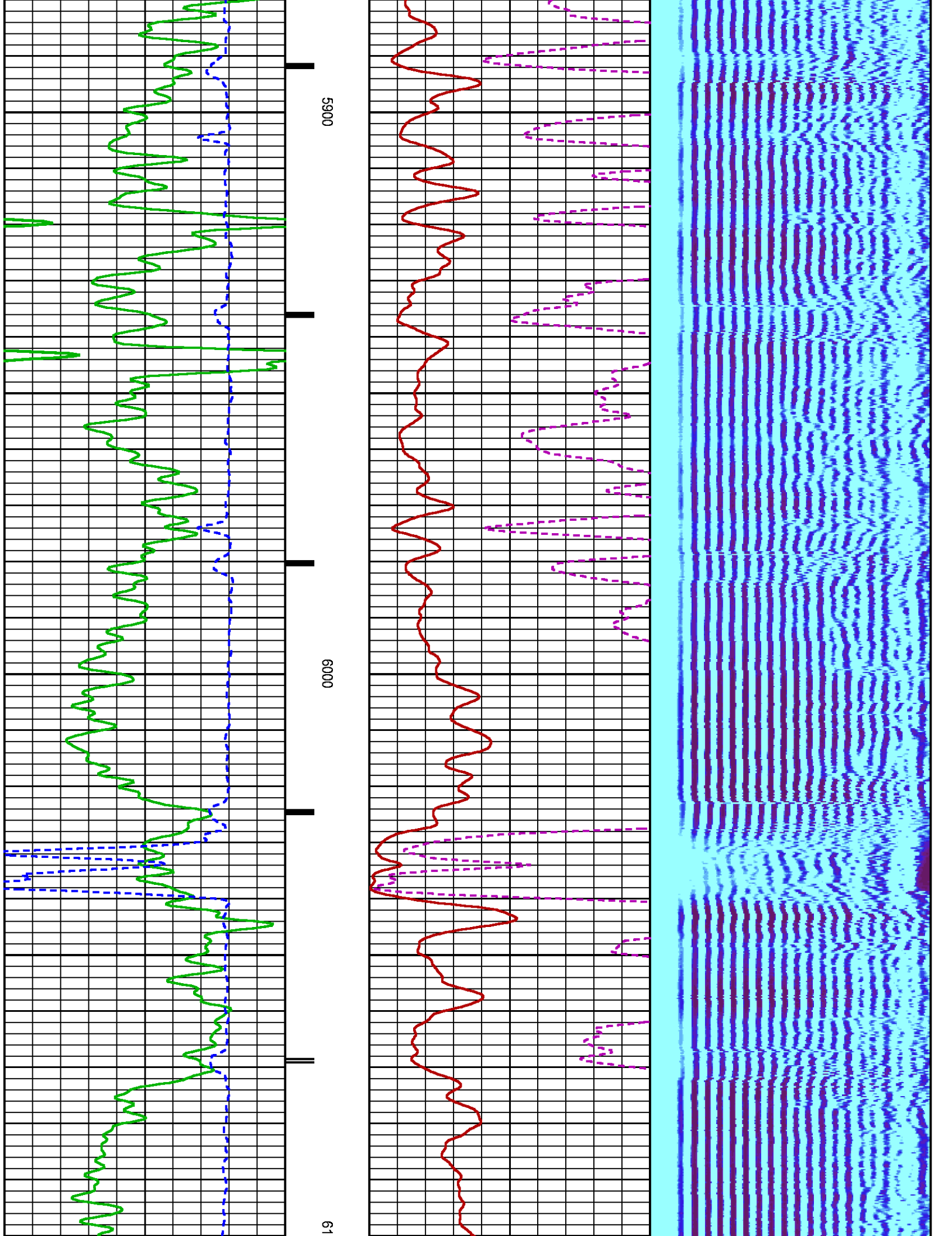


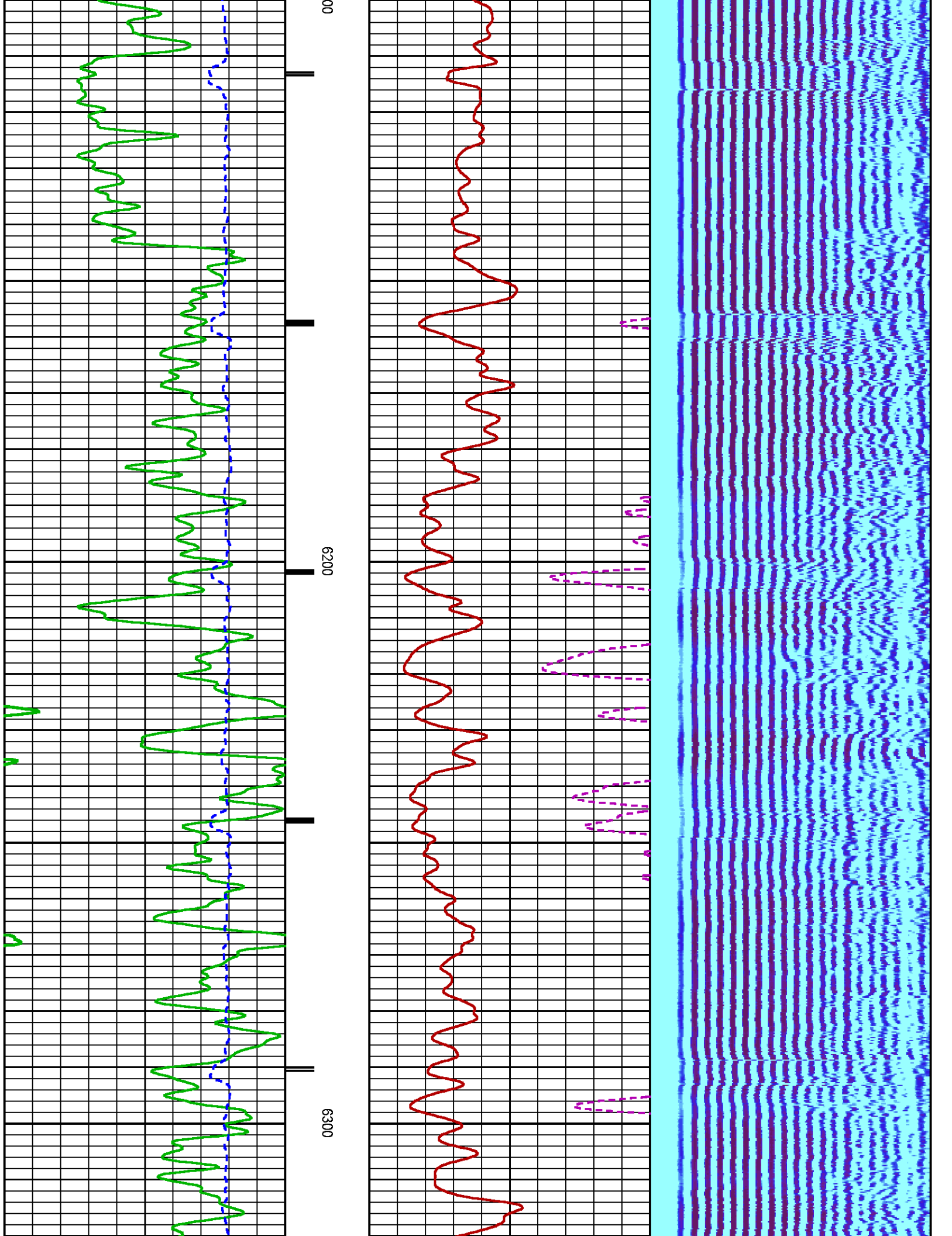


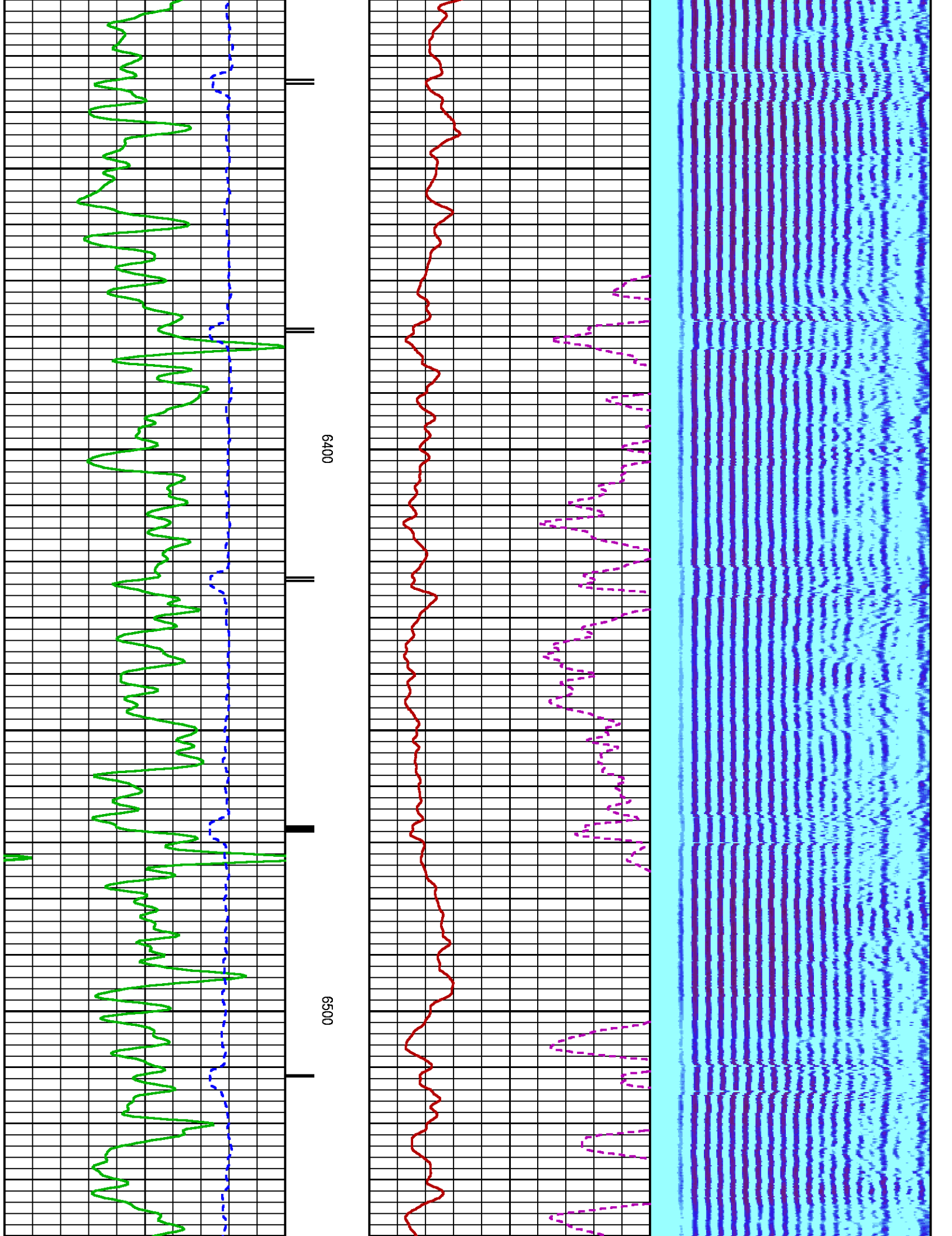


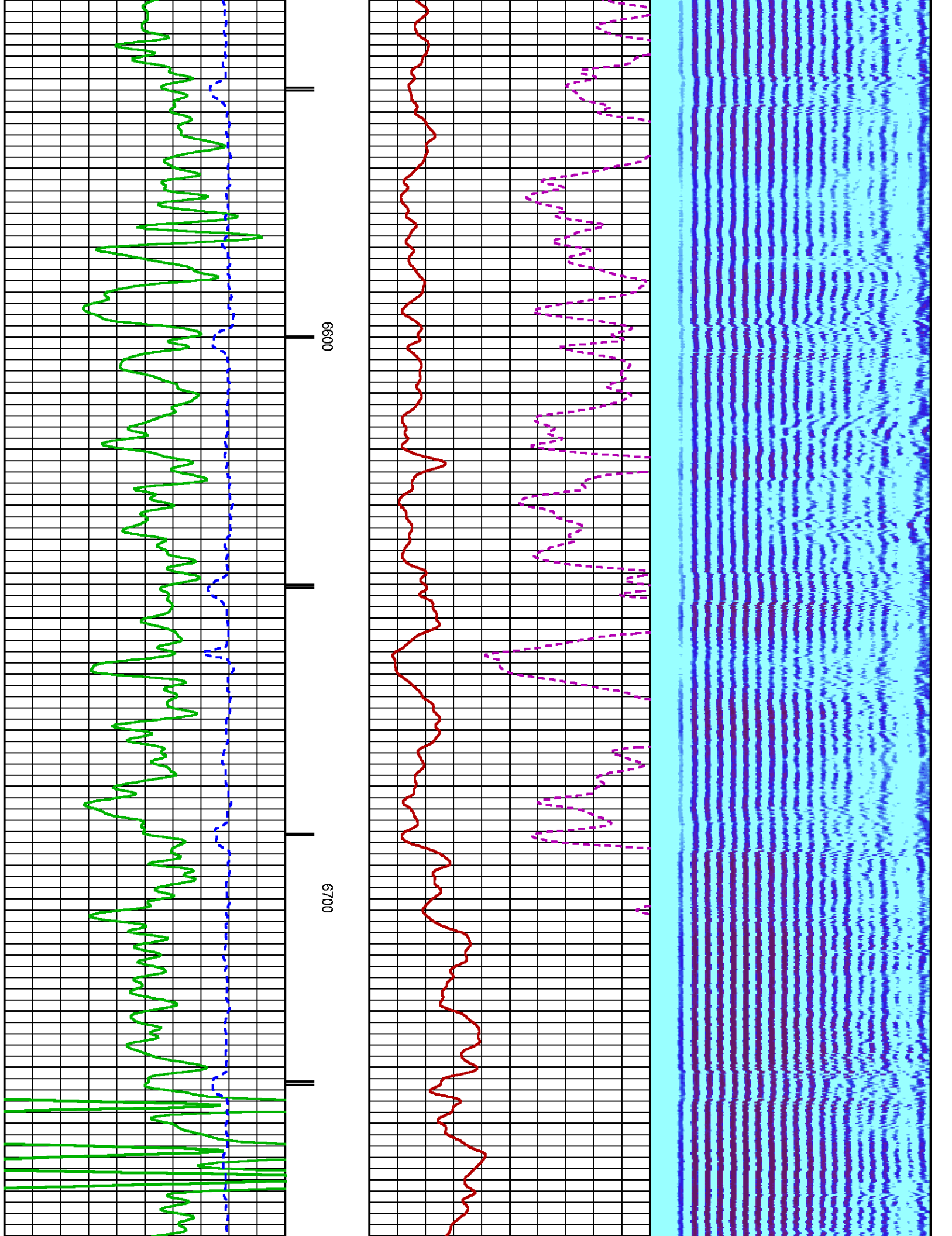


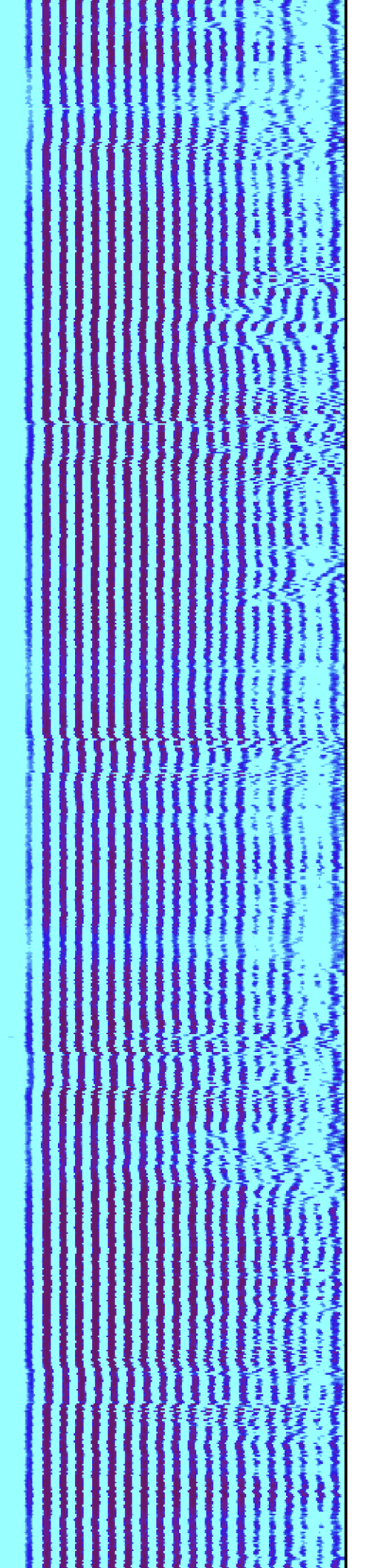
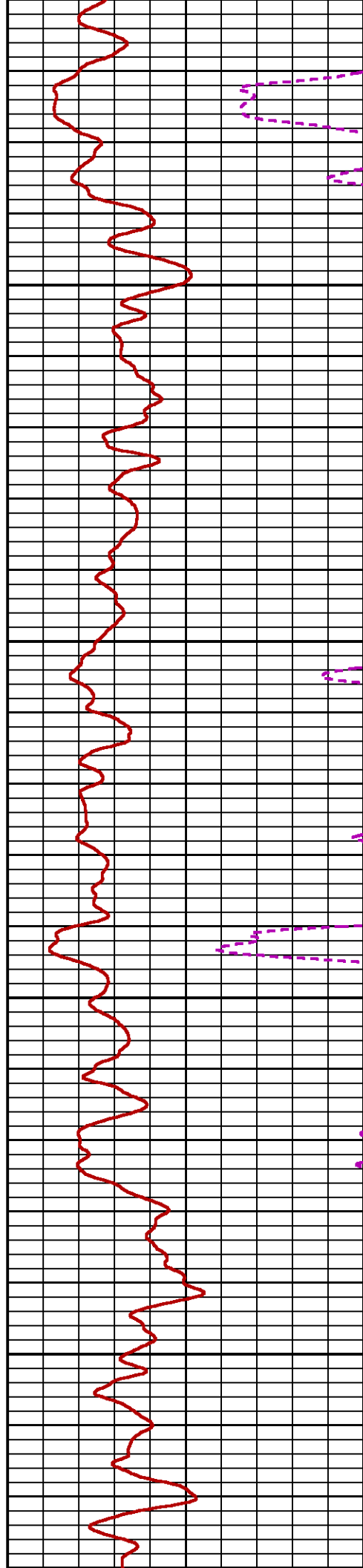
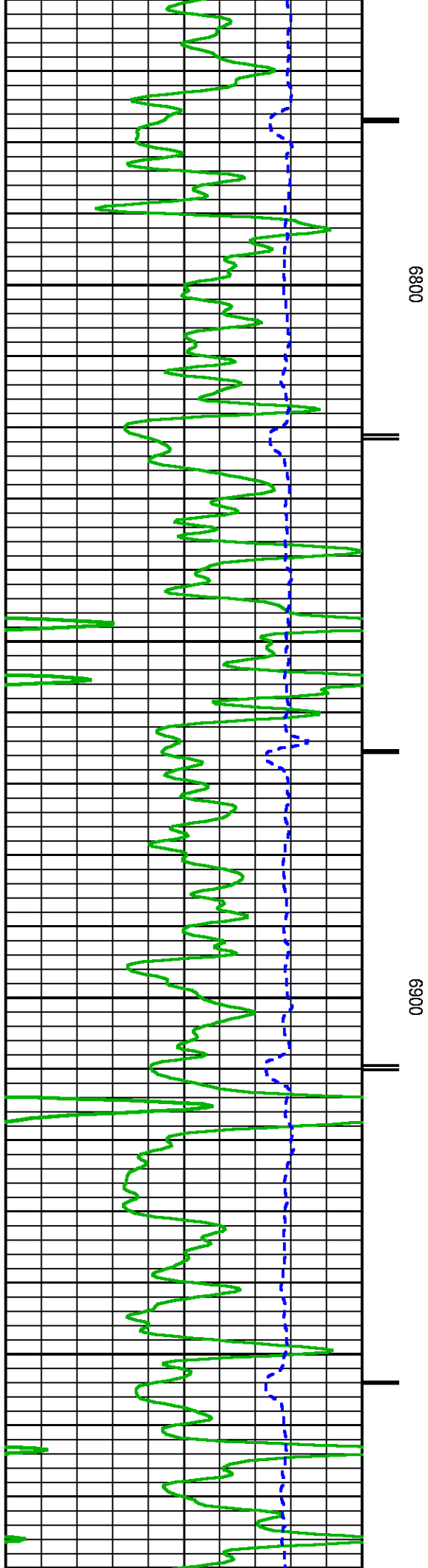


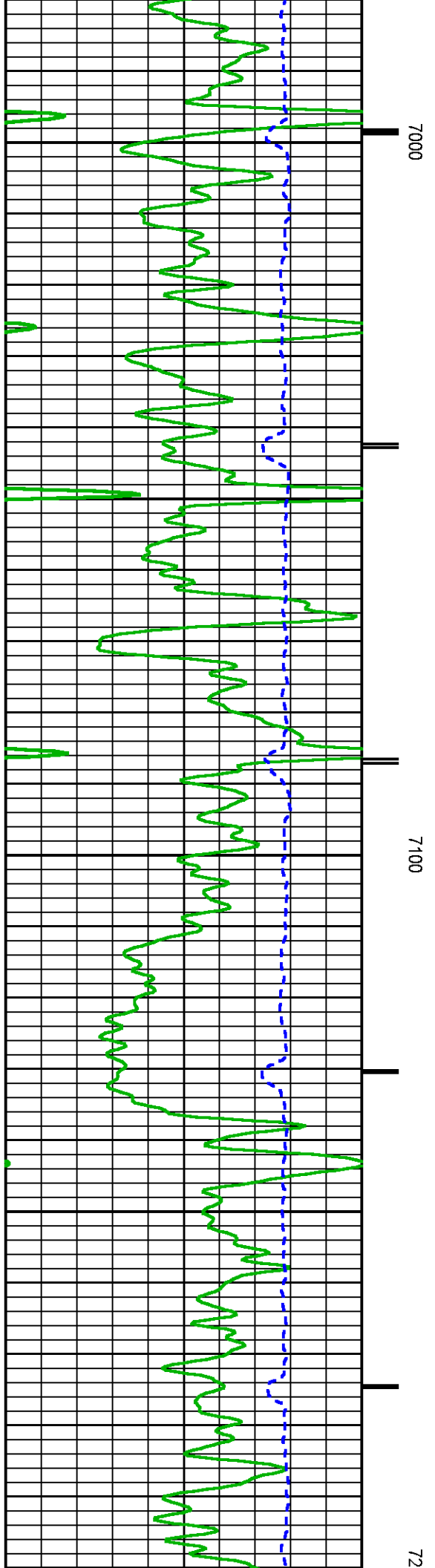
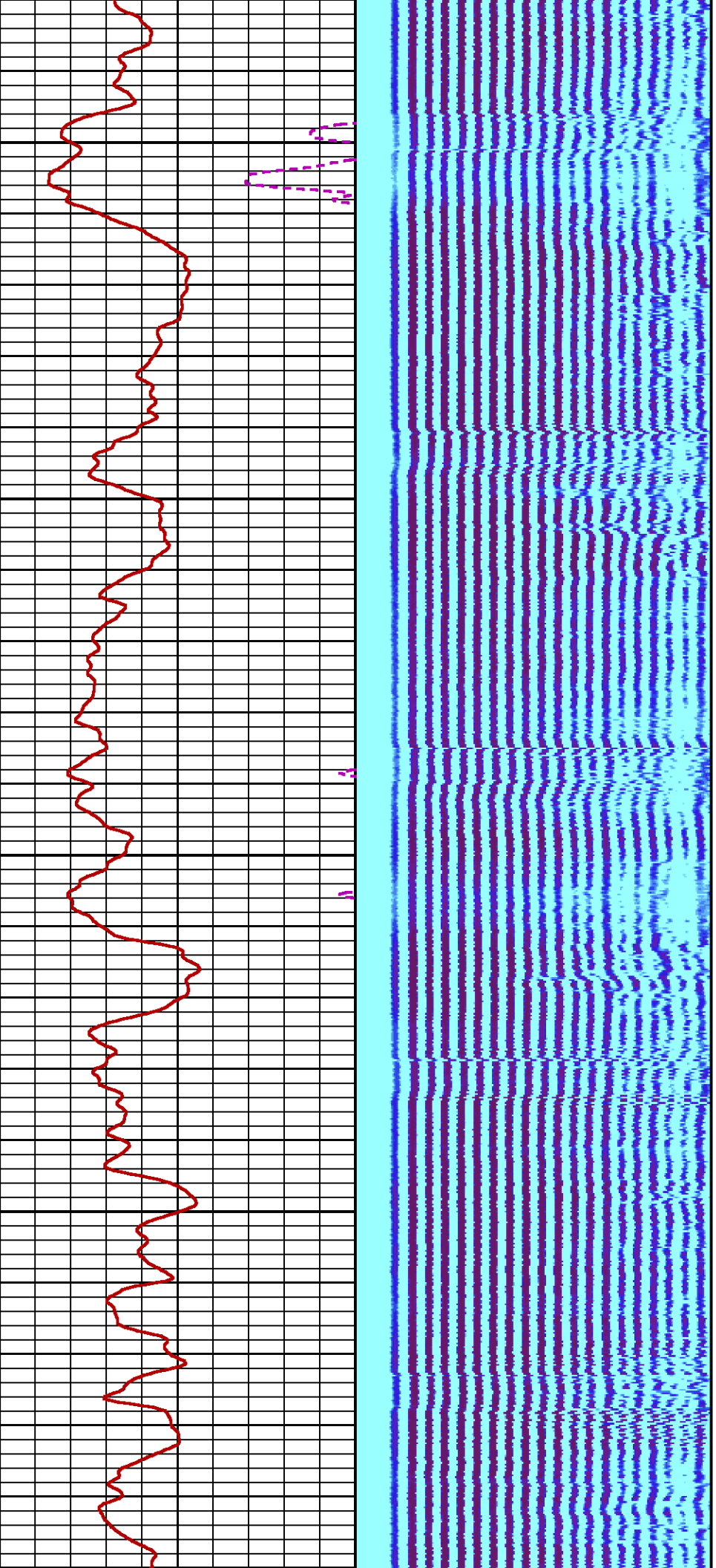


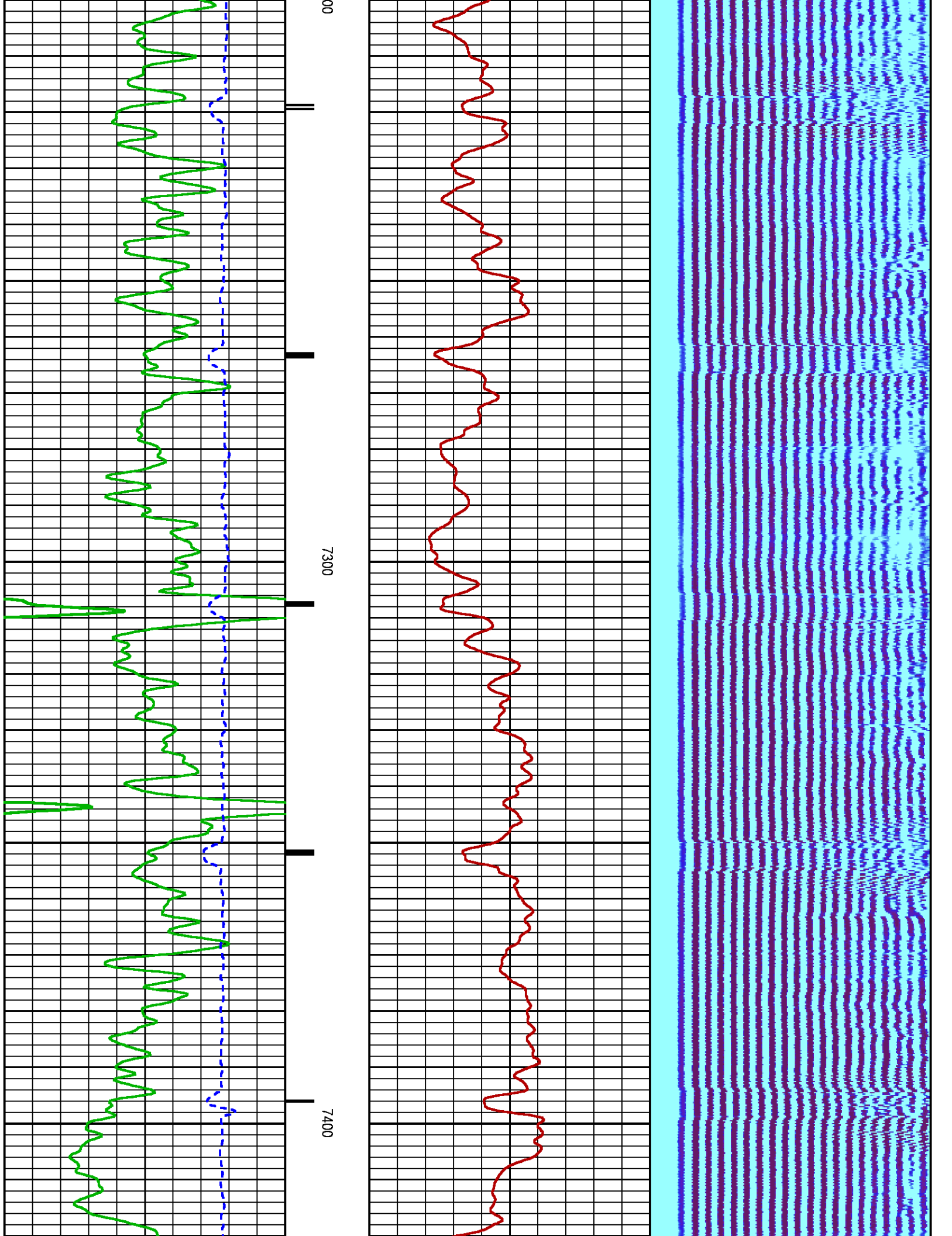


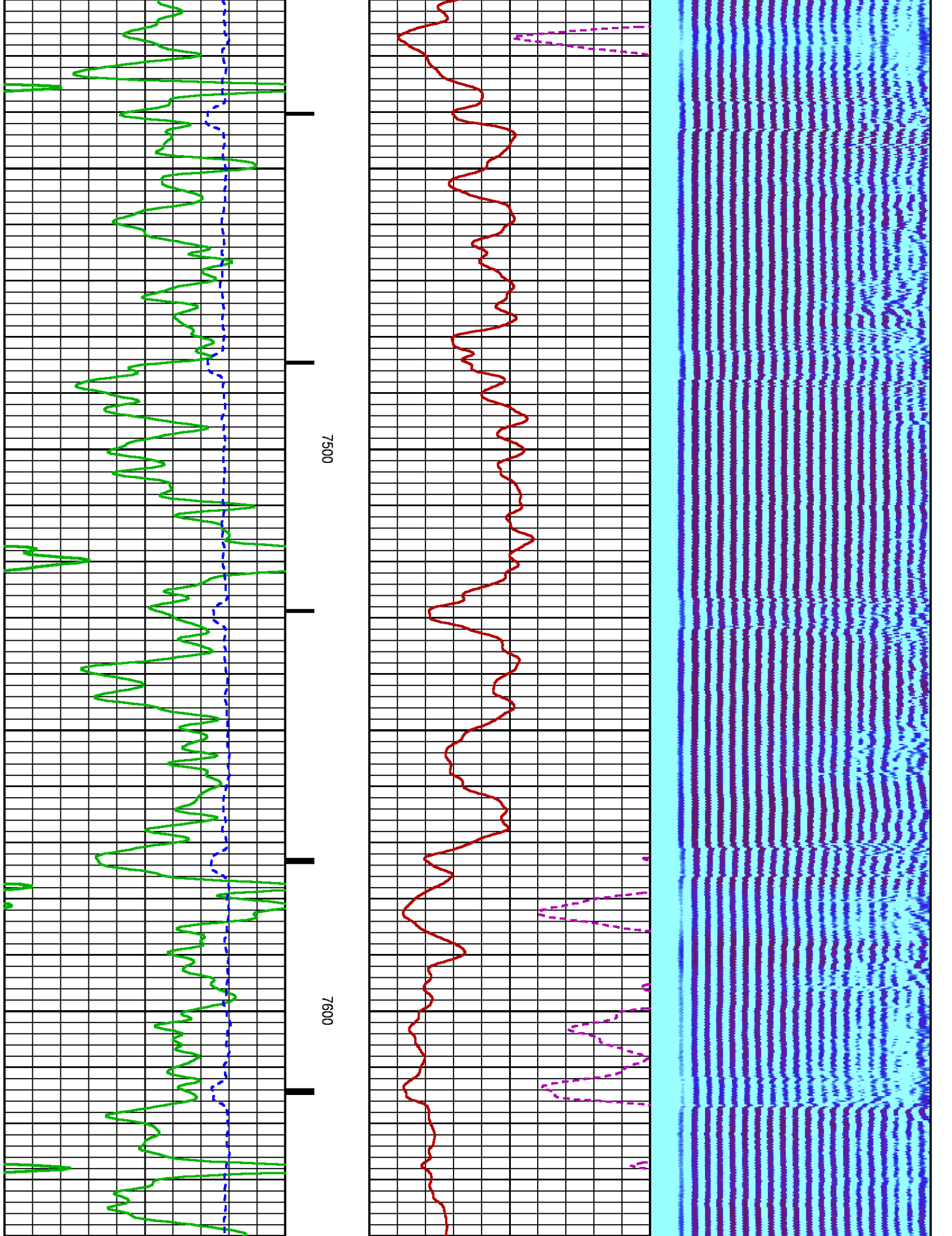


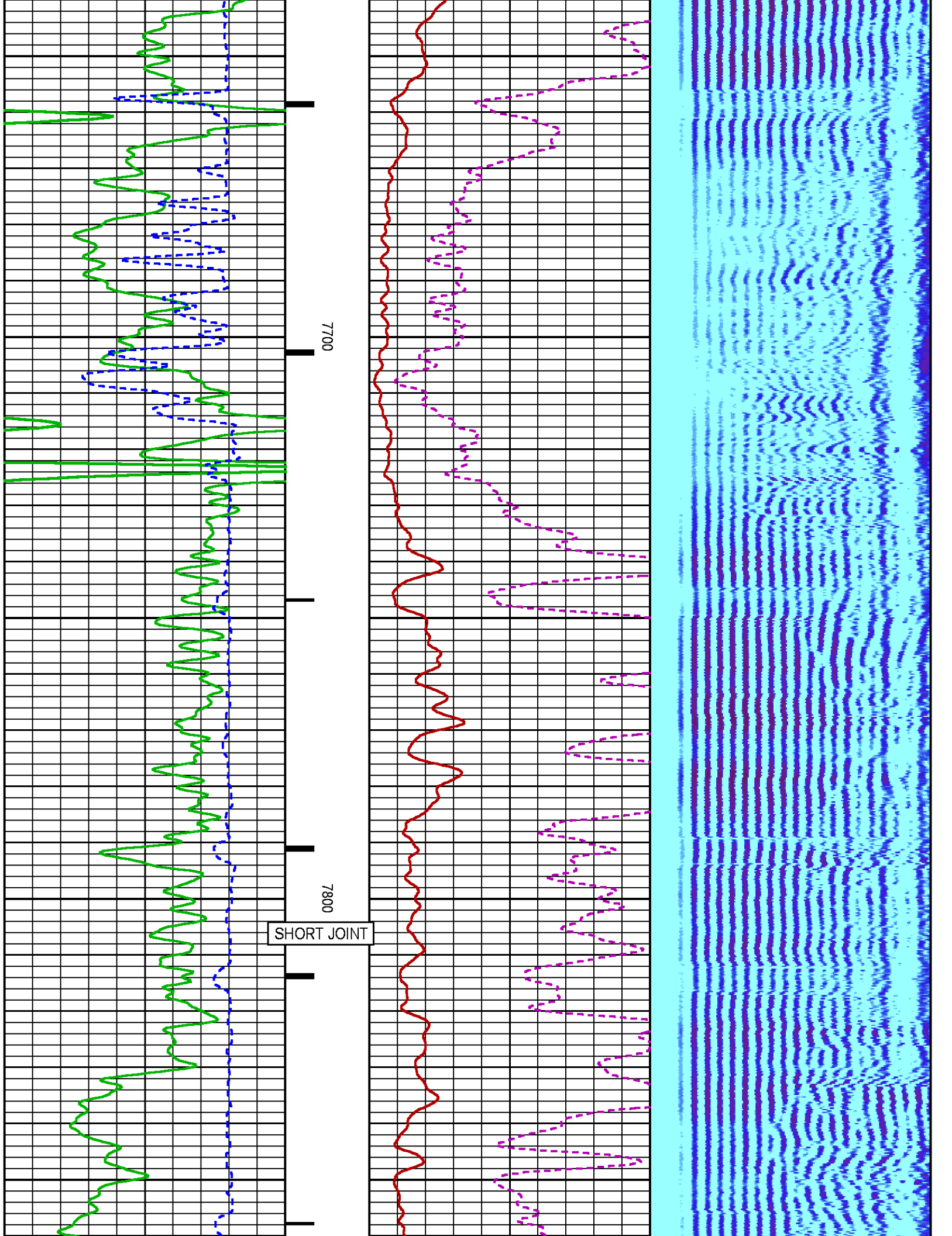


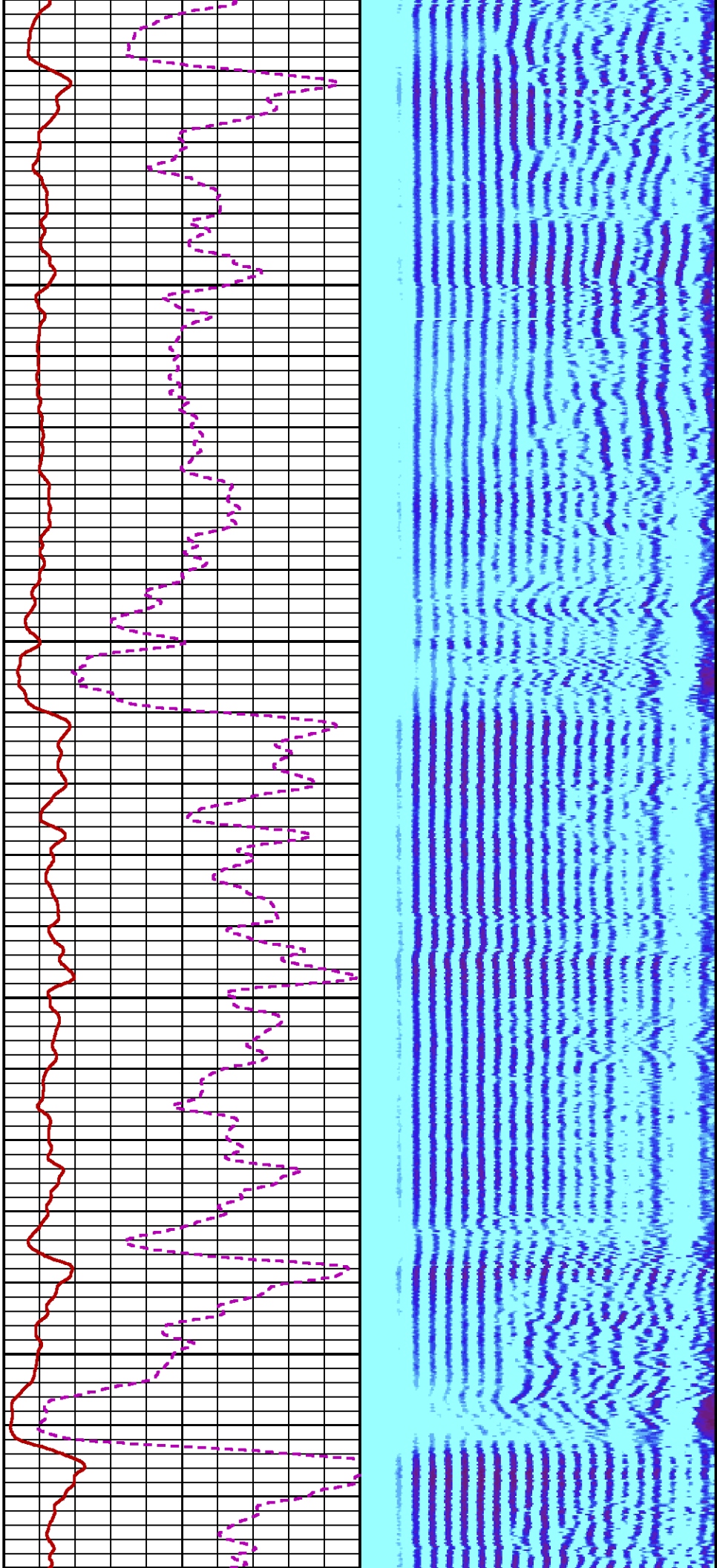






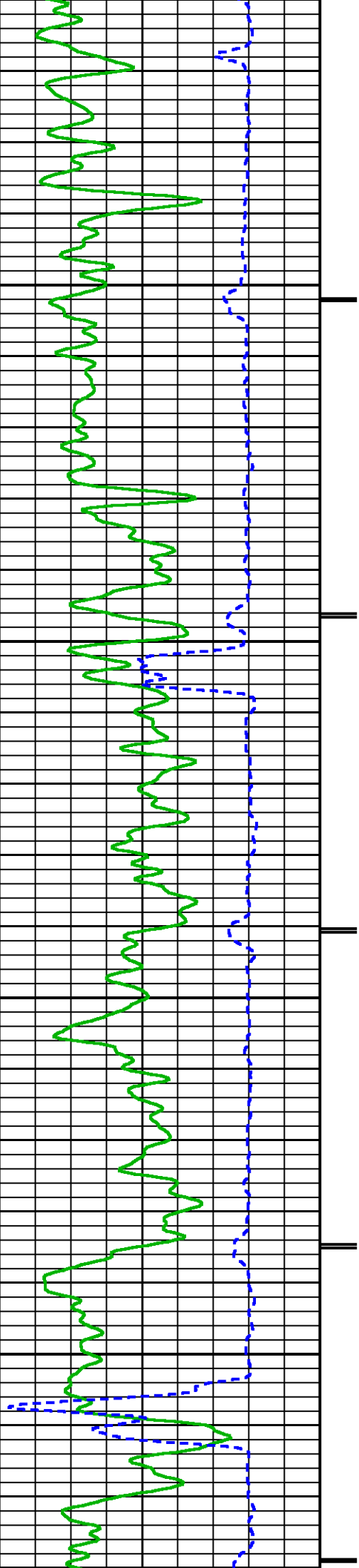


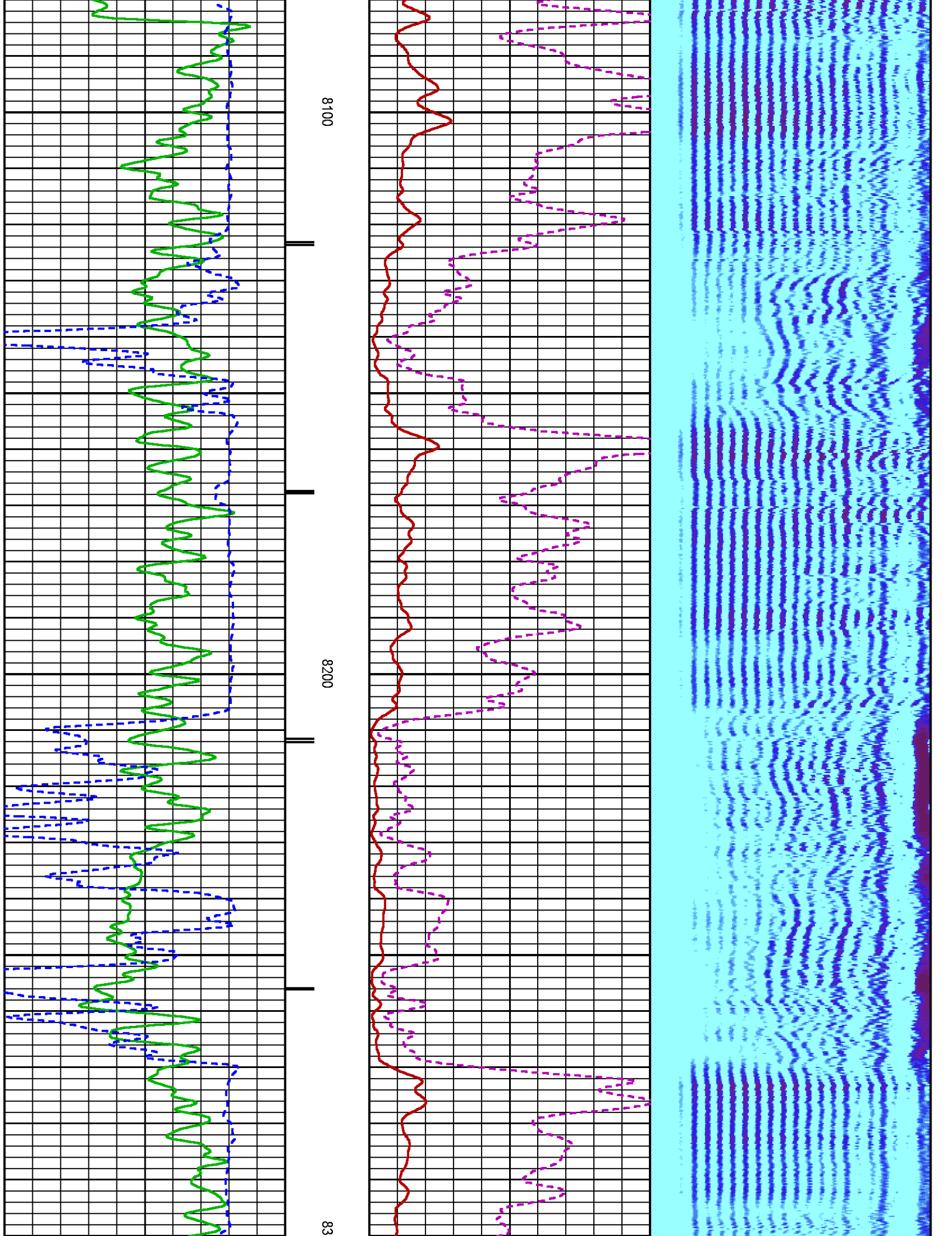


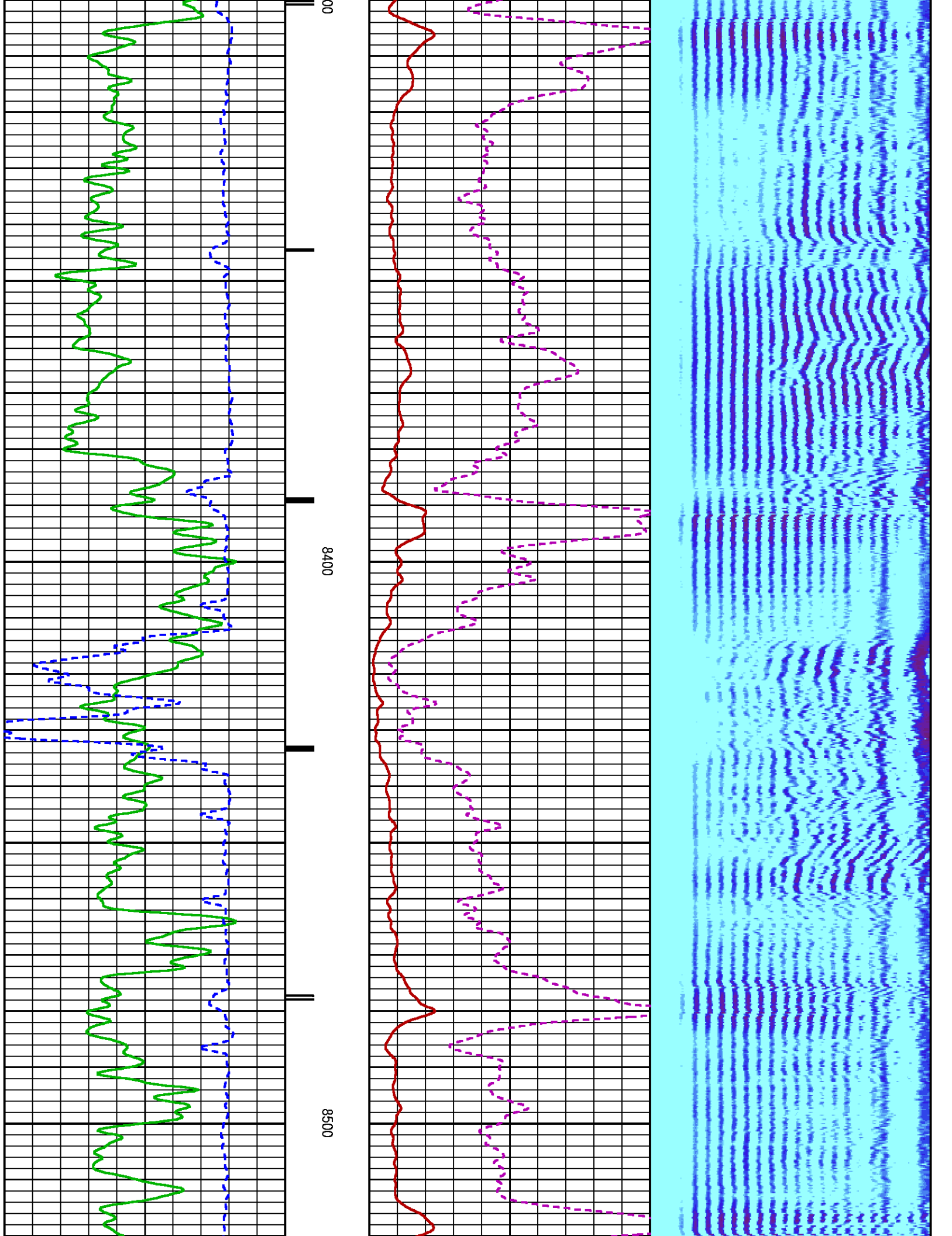


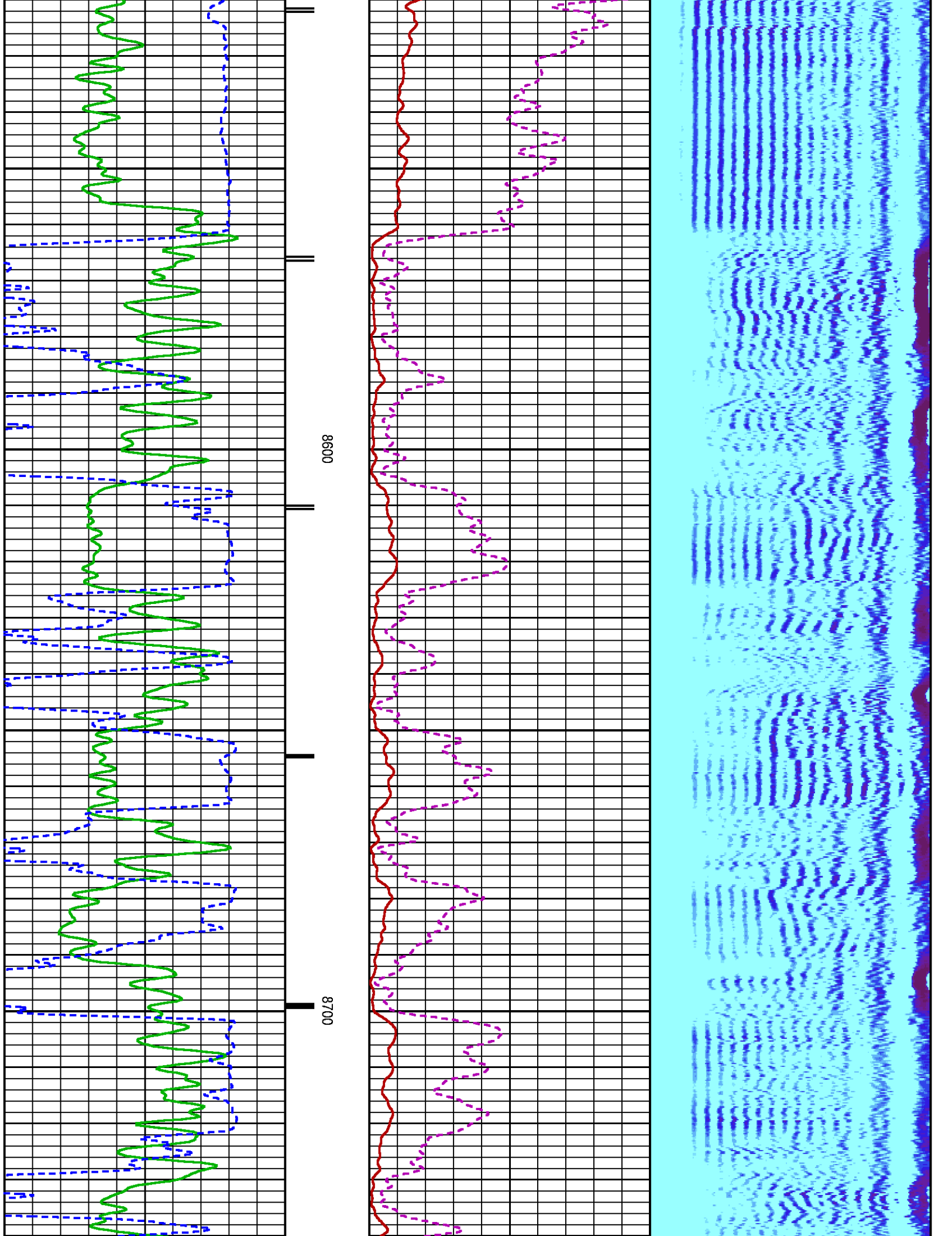
7900

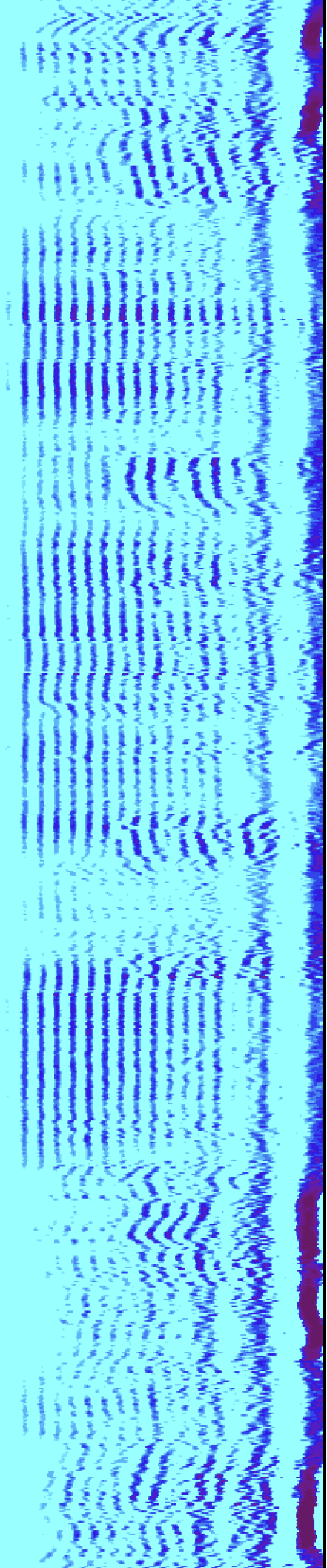
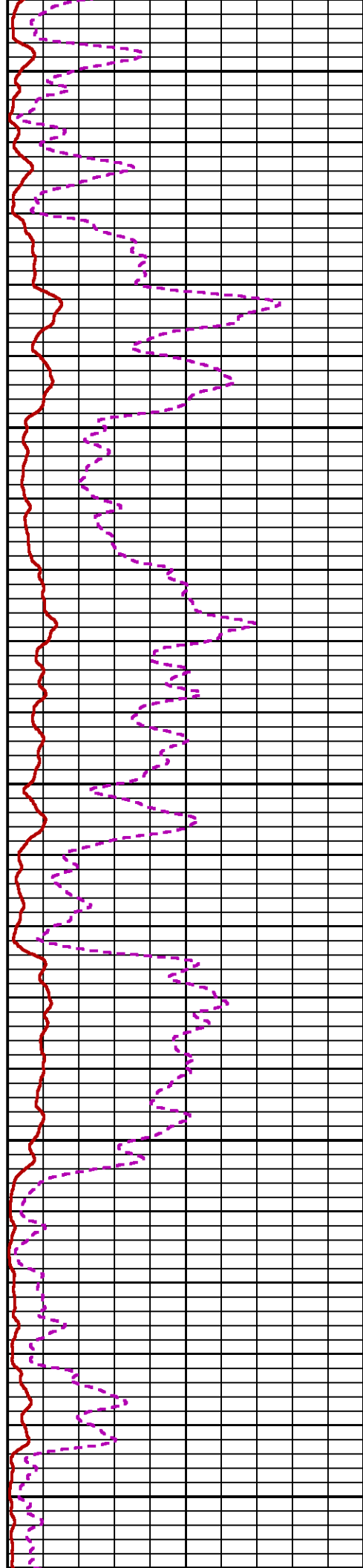
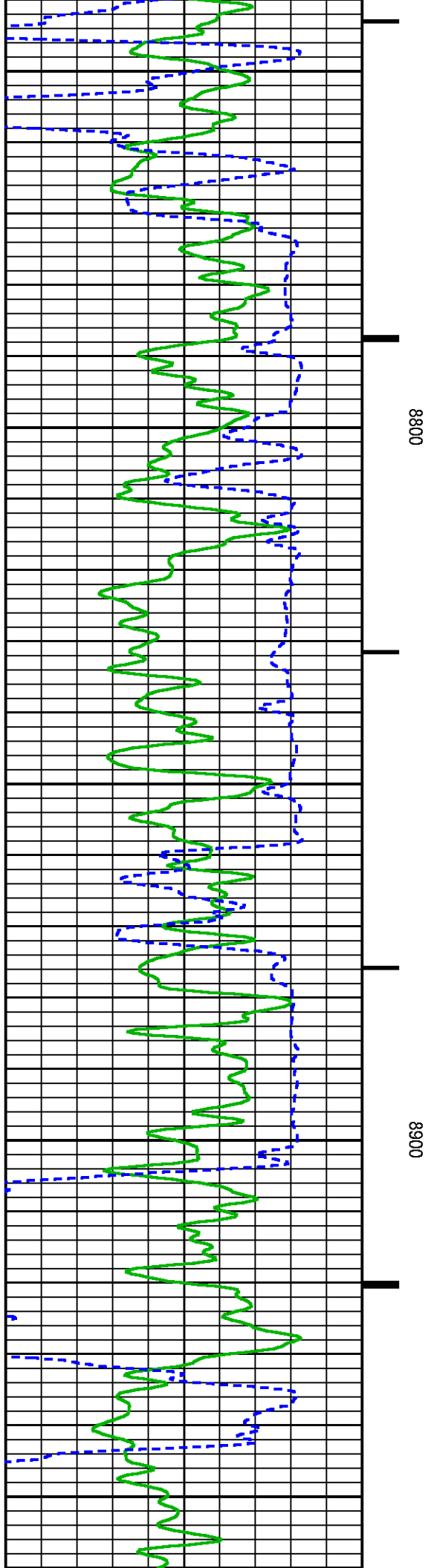
8000

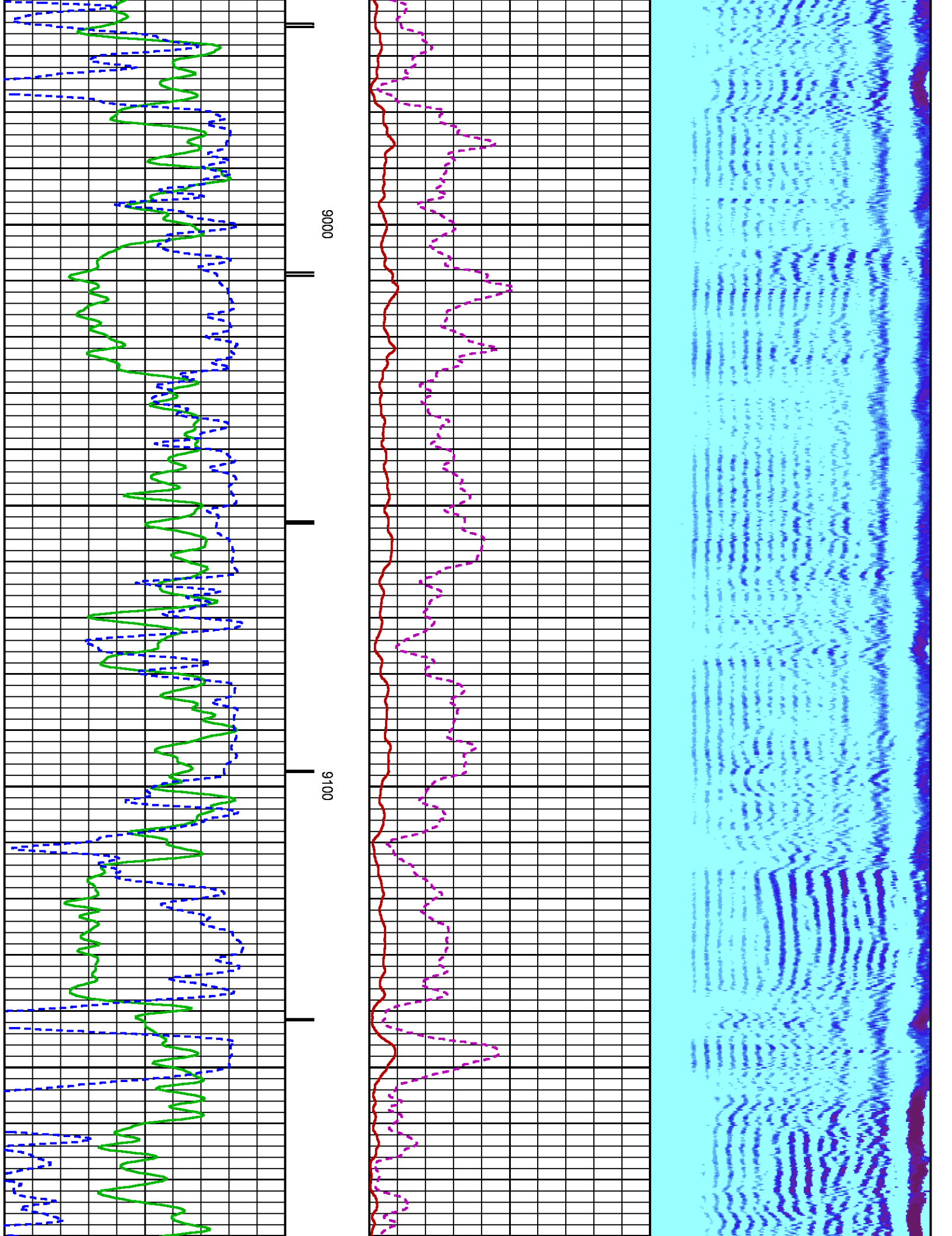


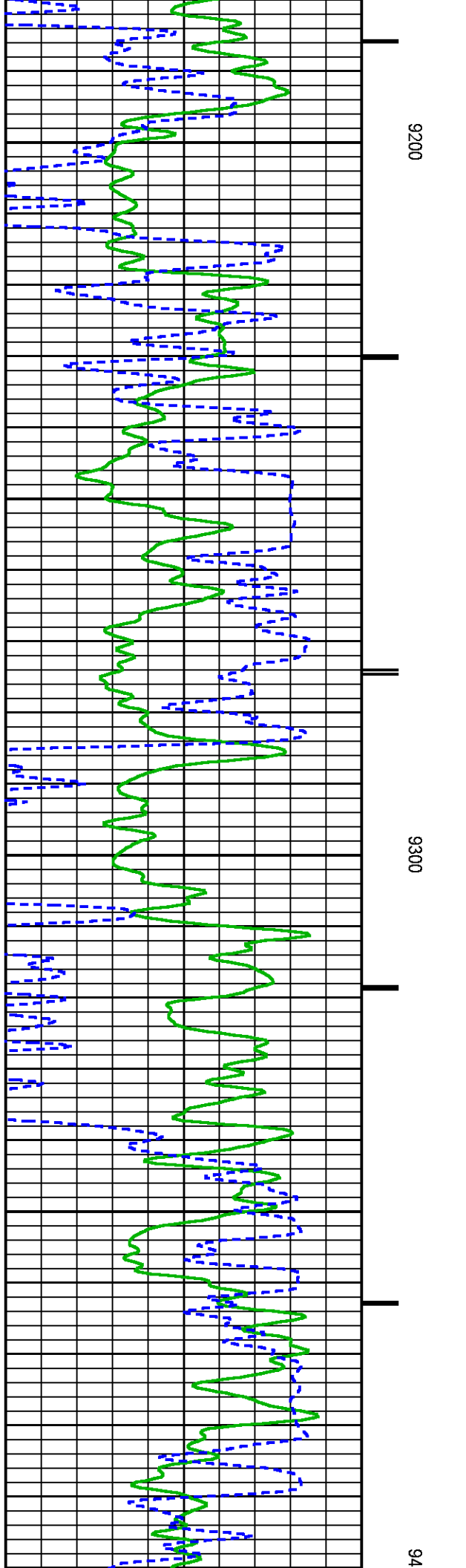
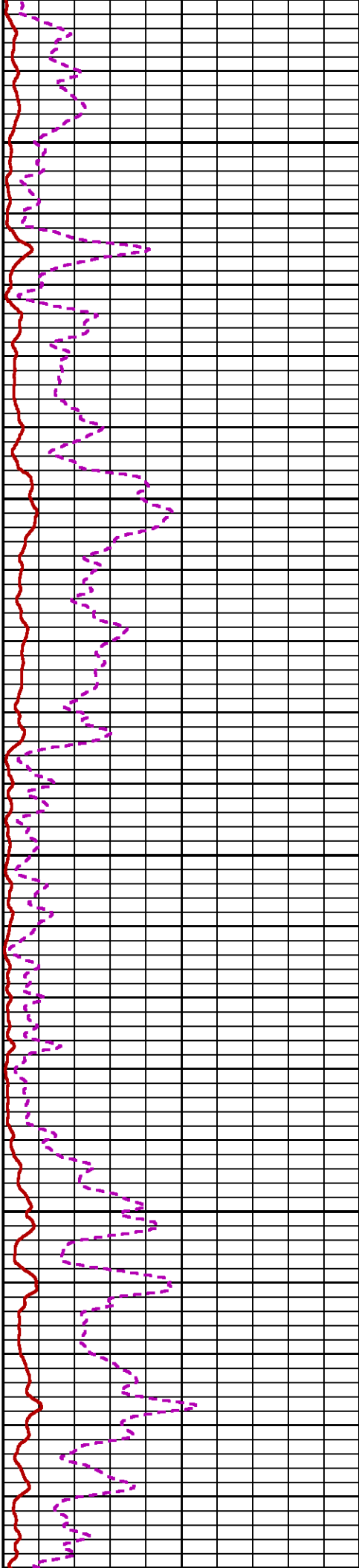
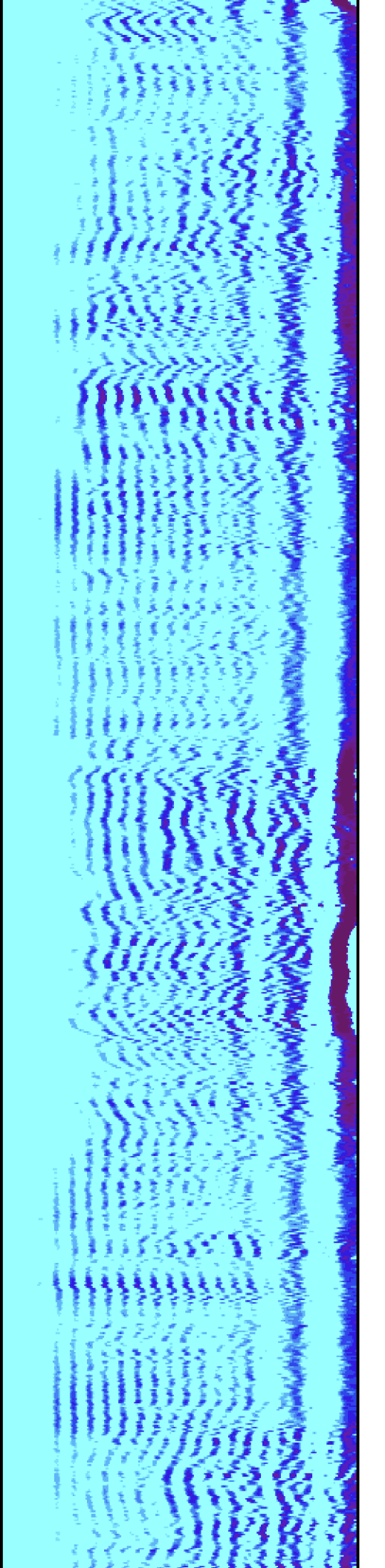


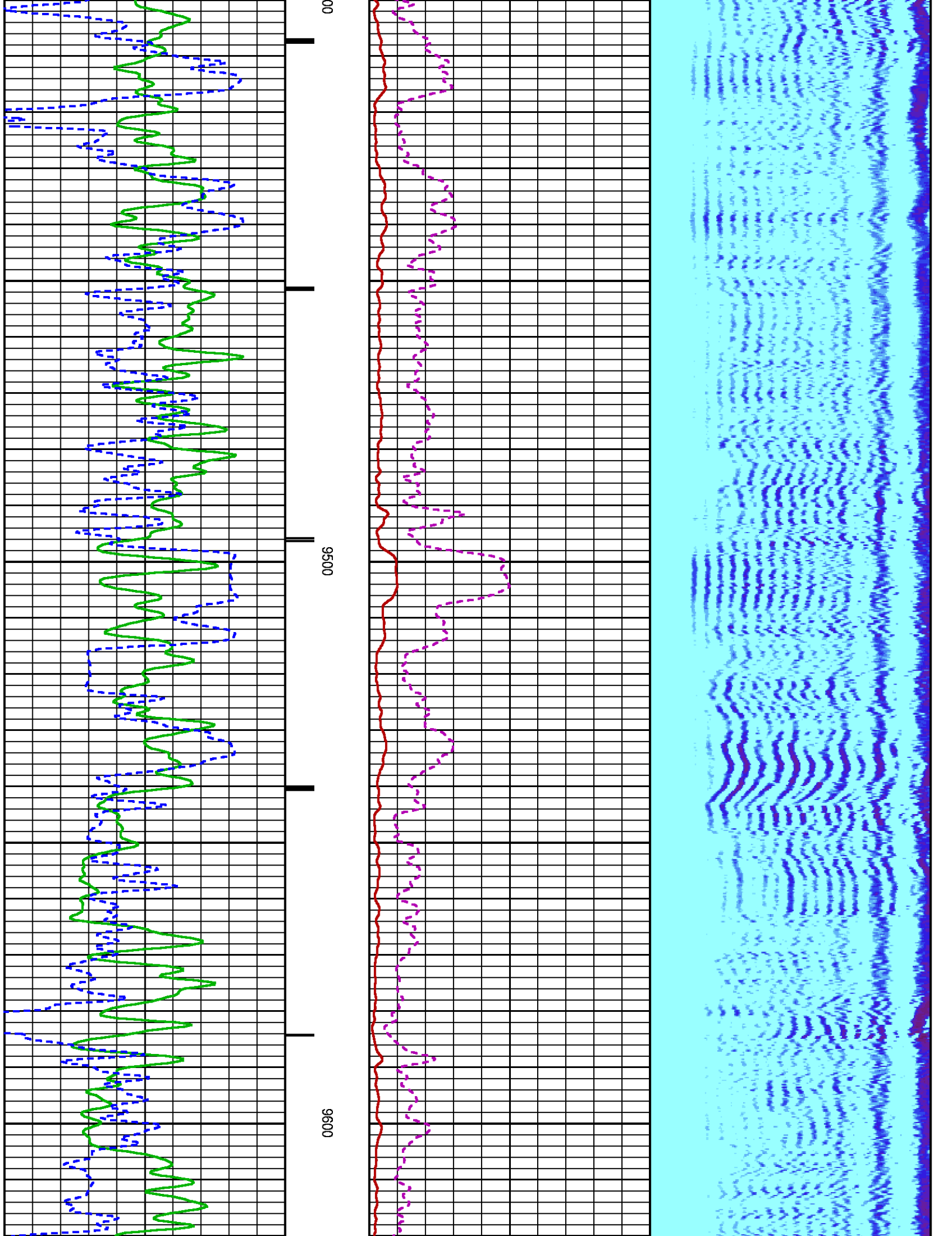


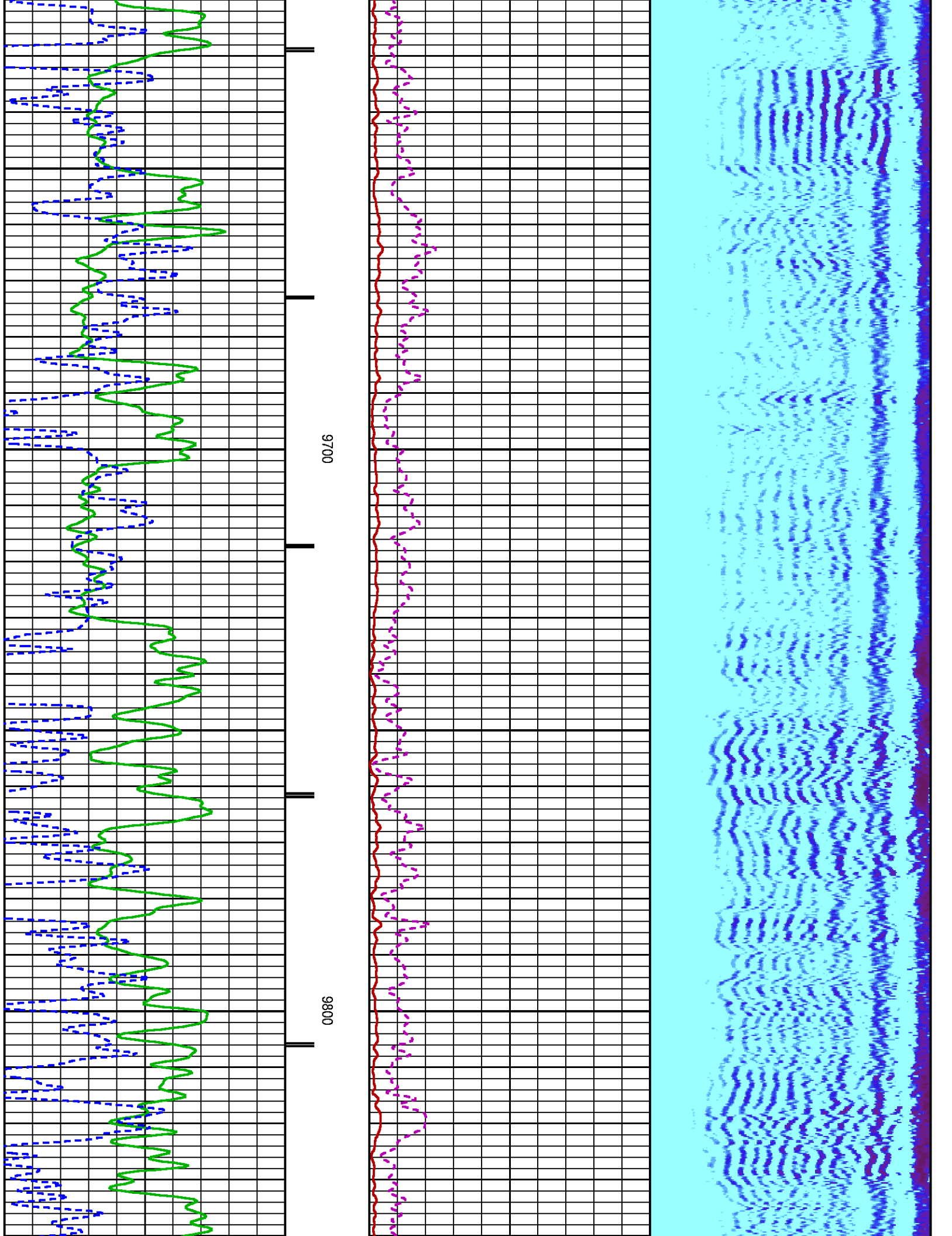


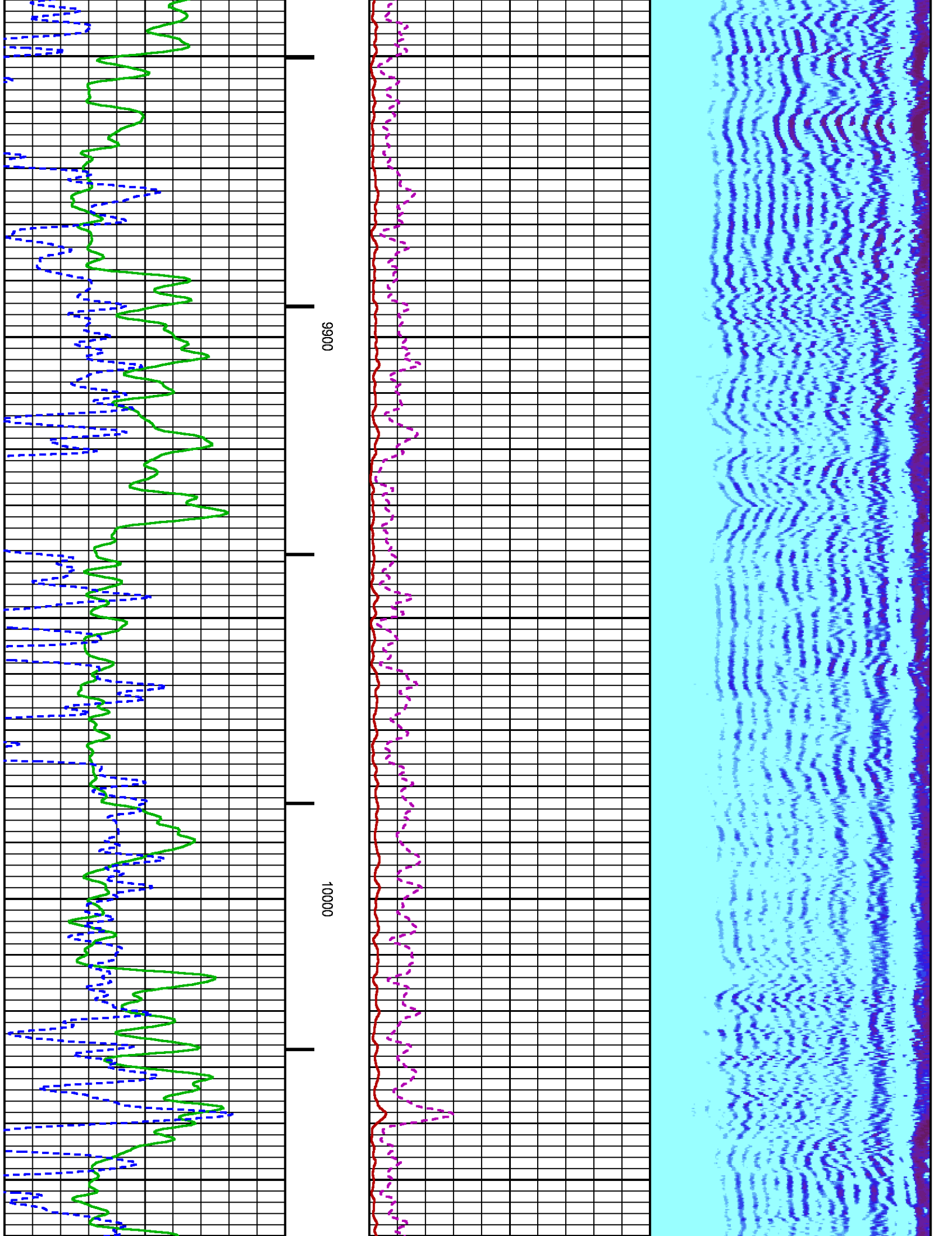


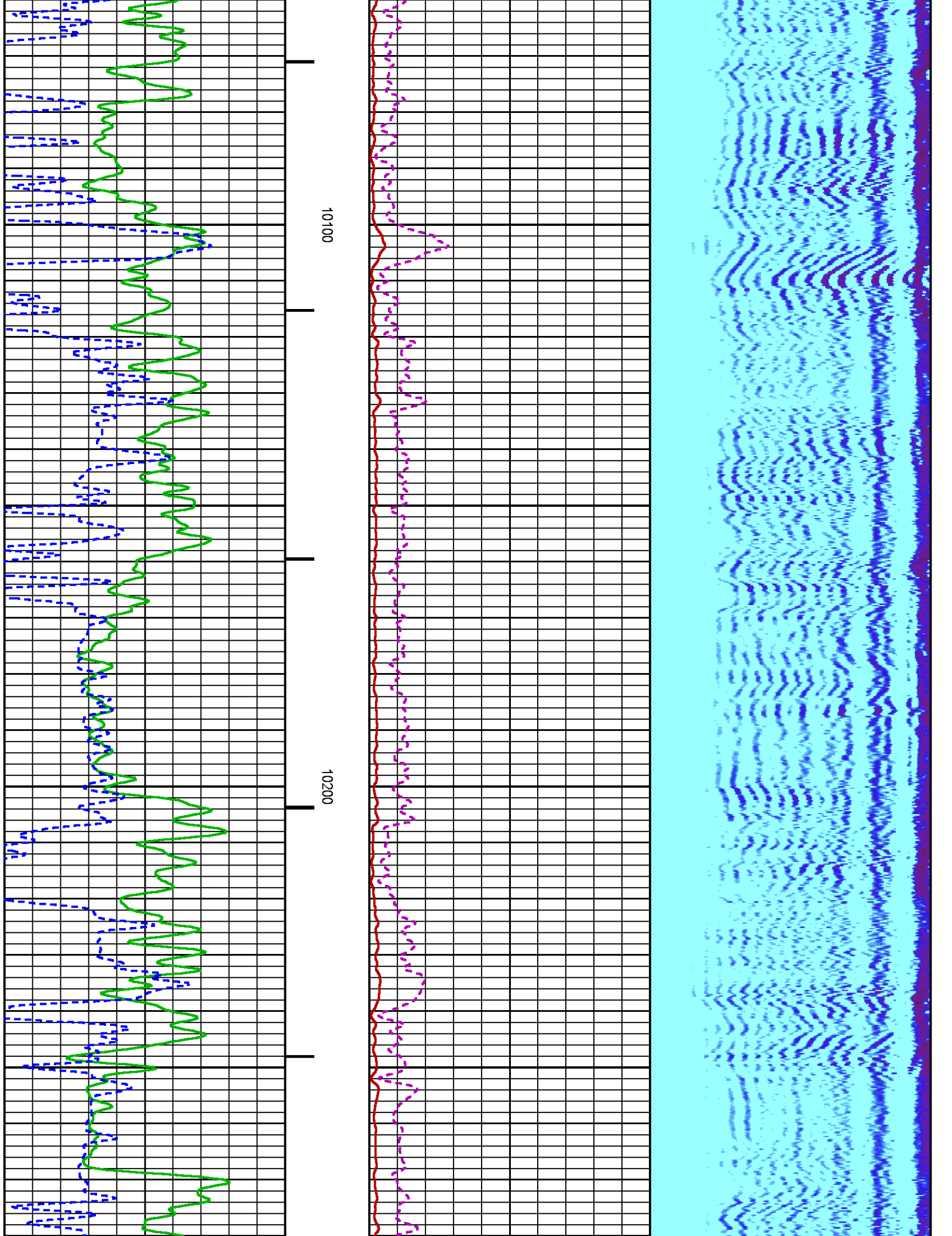


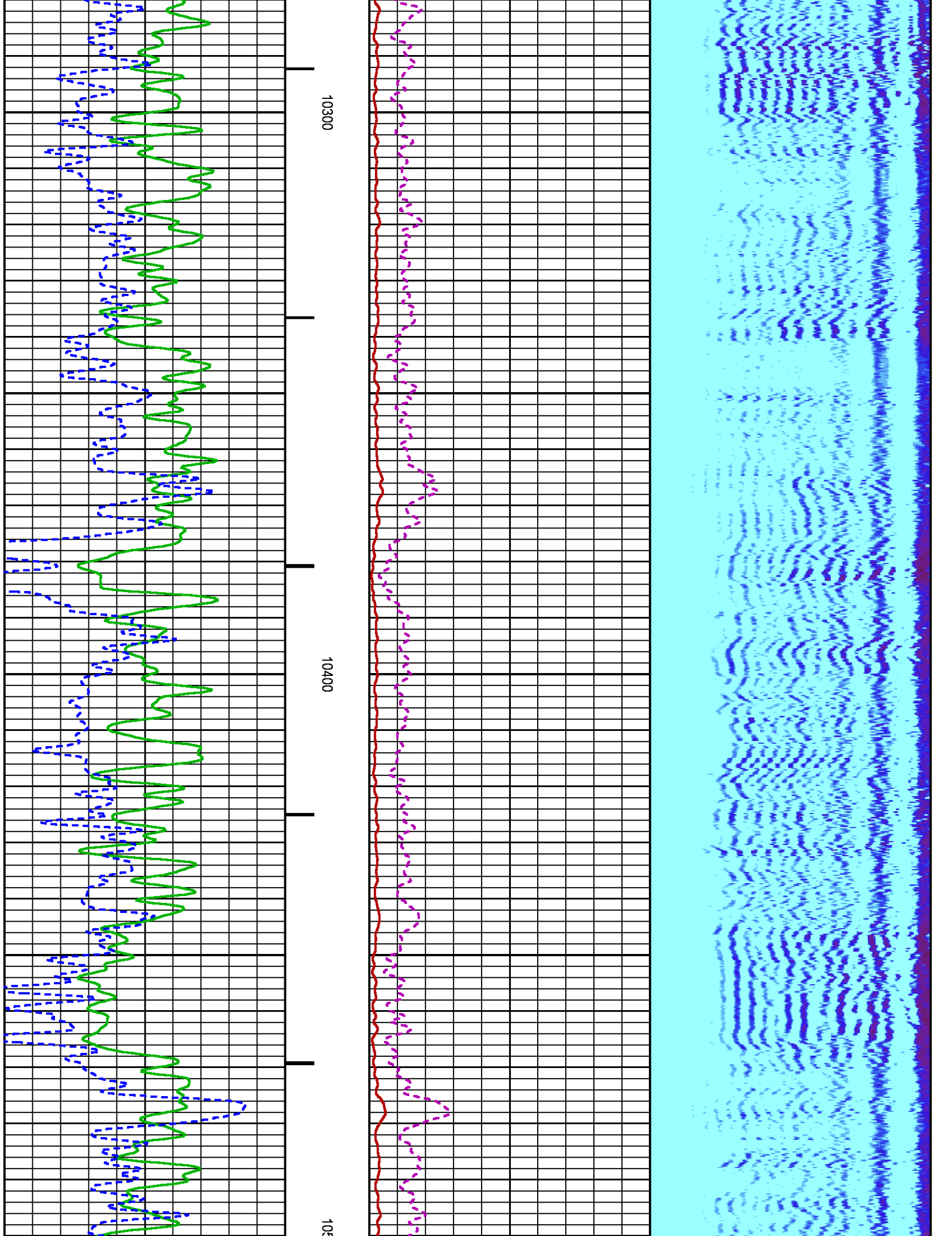


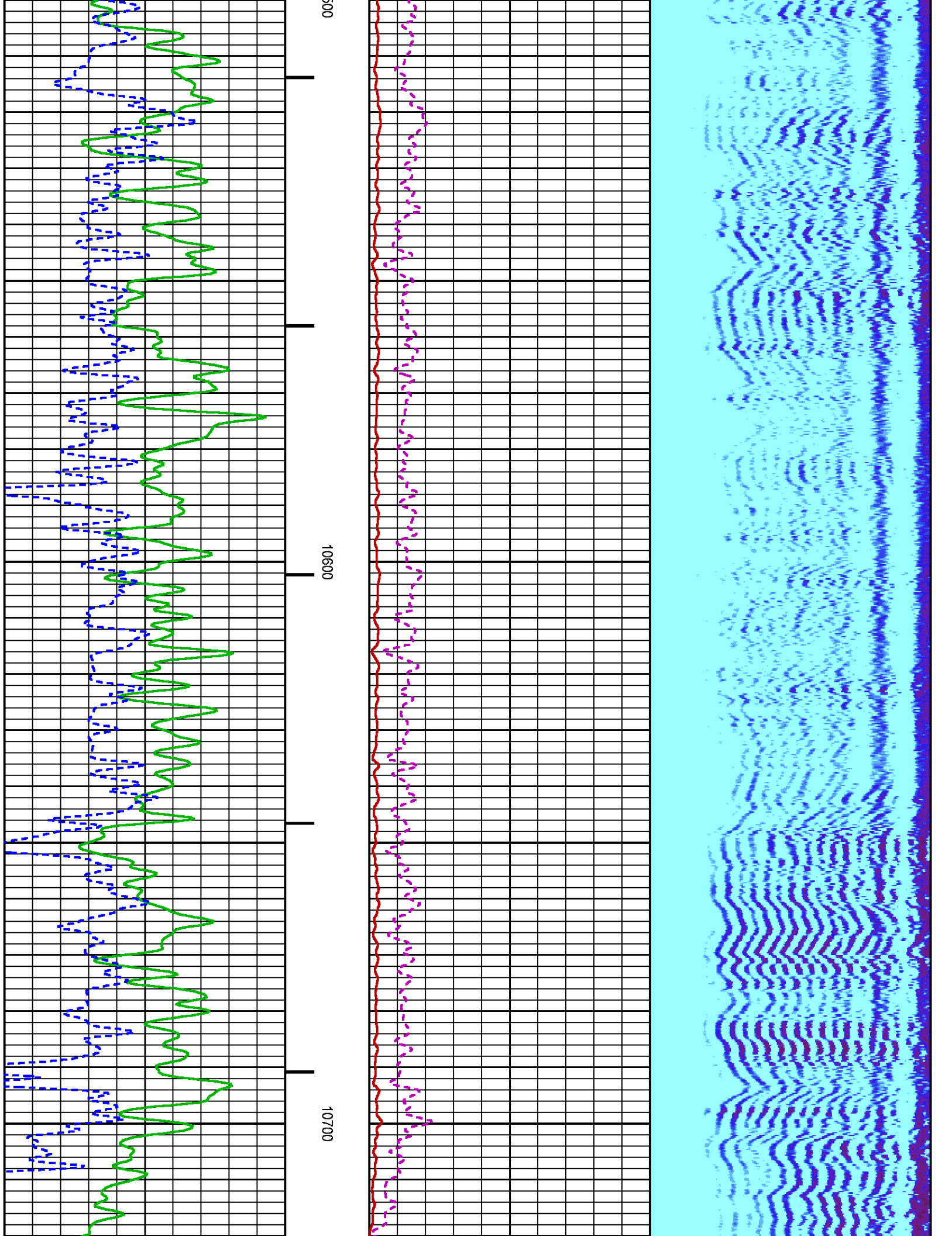


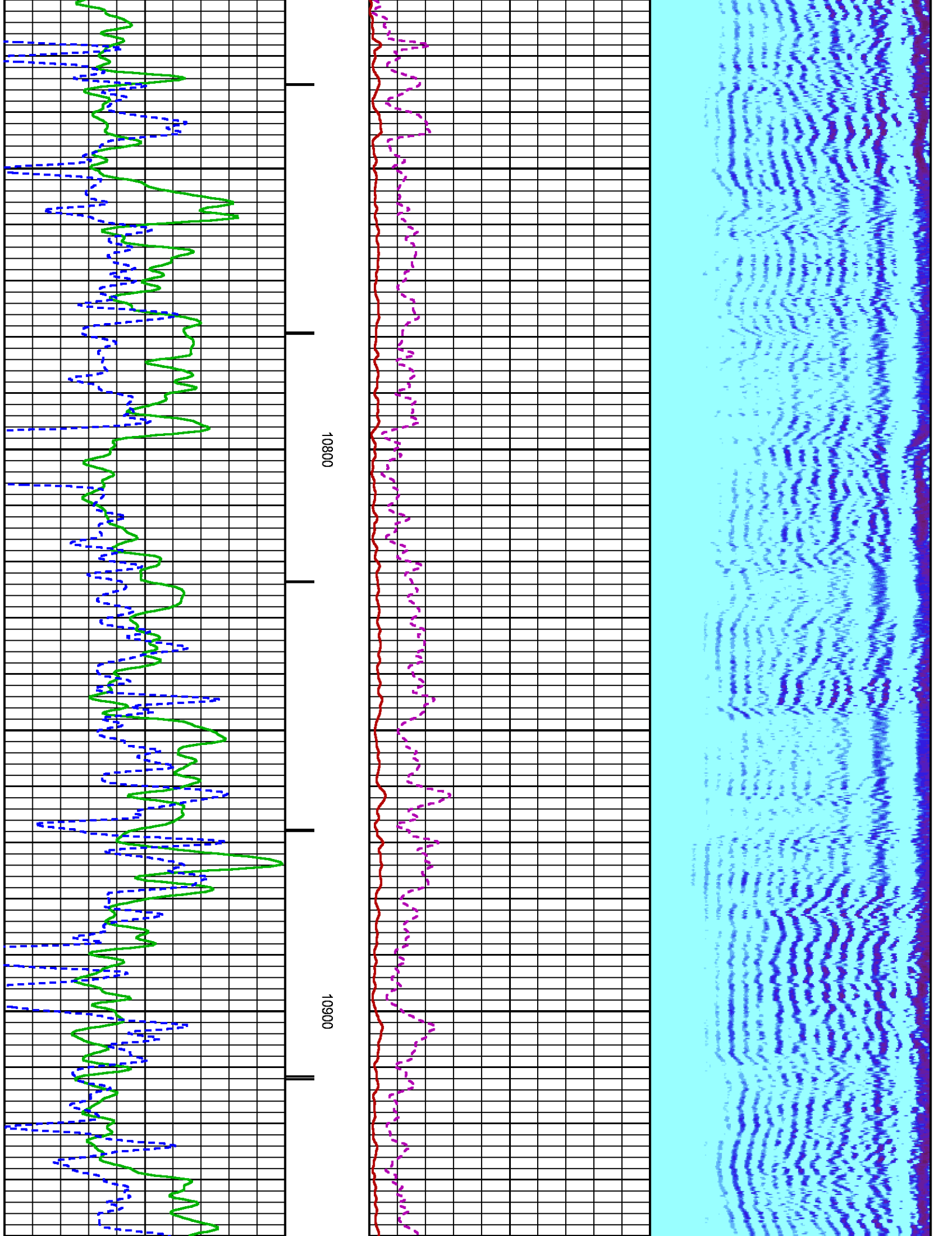


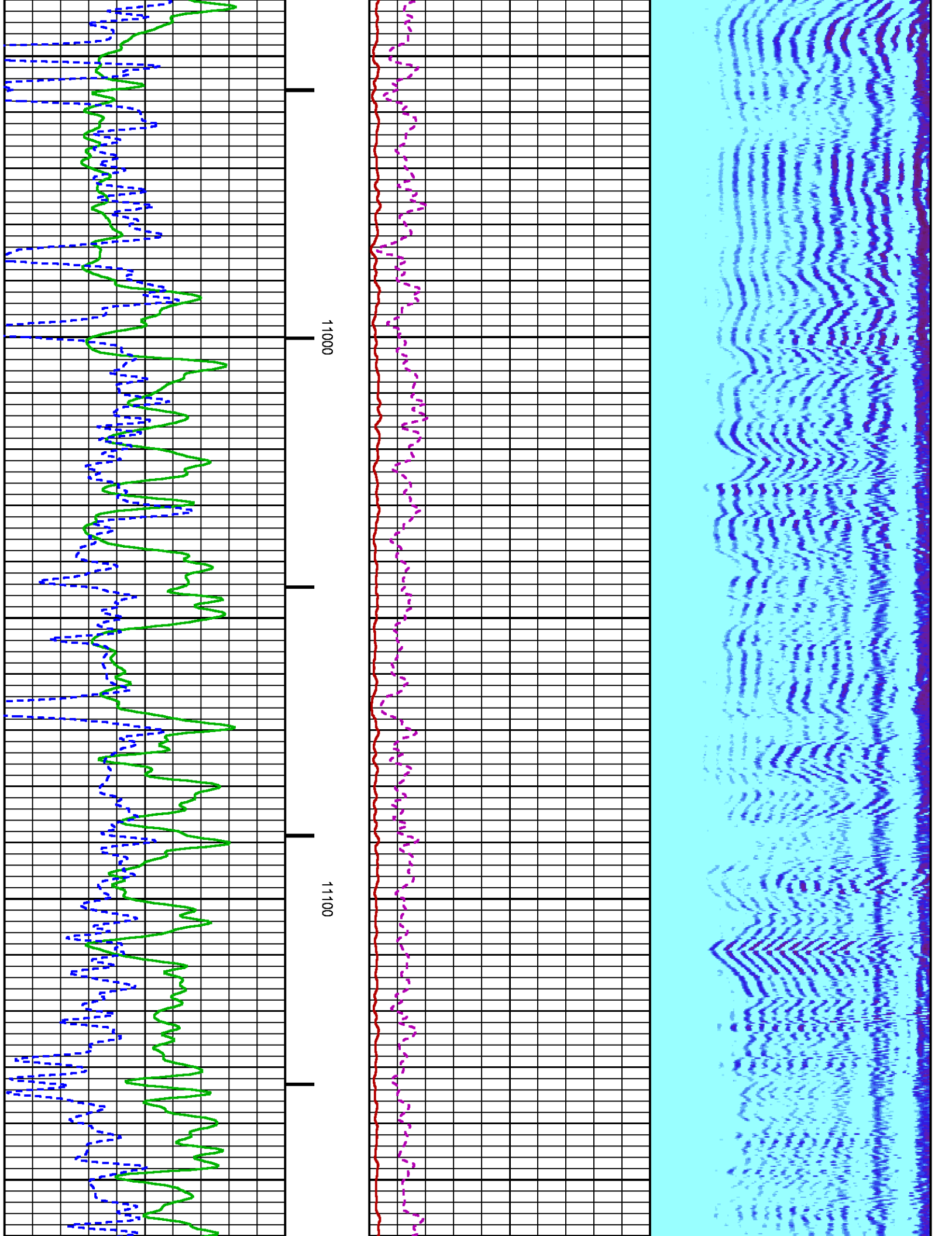


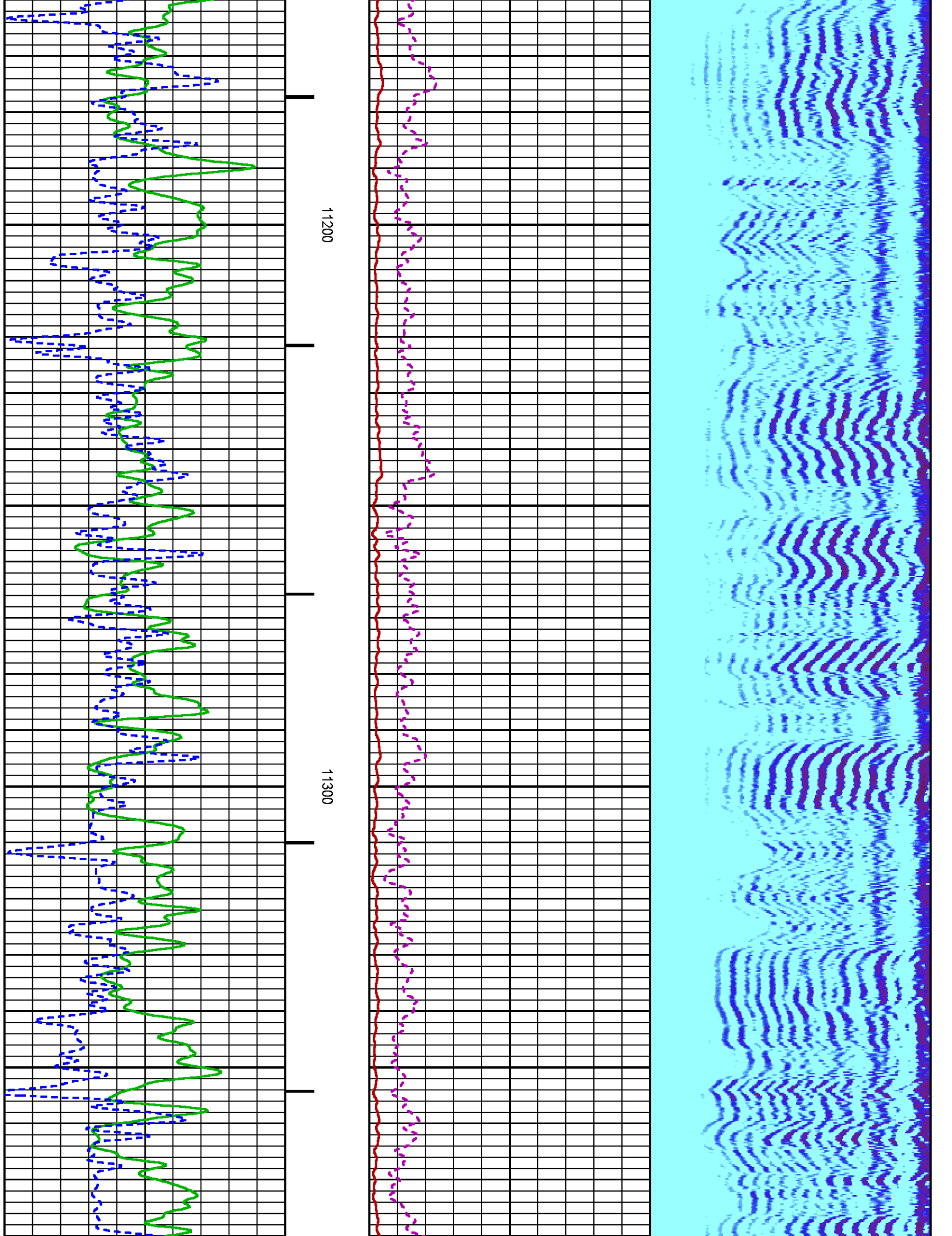


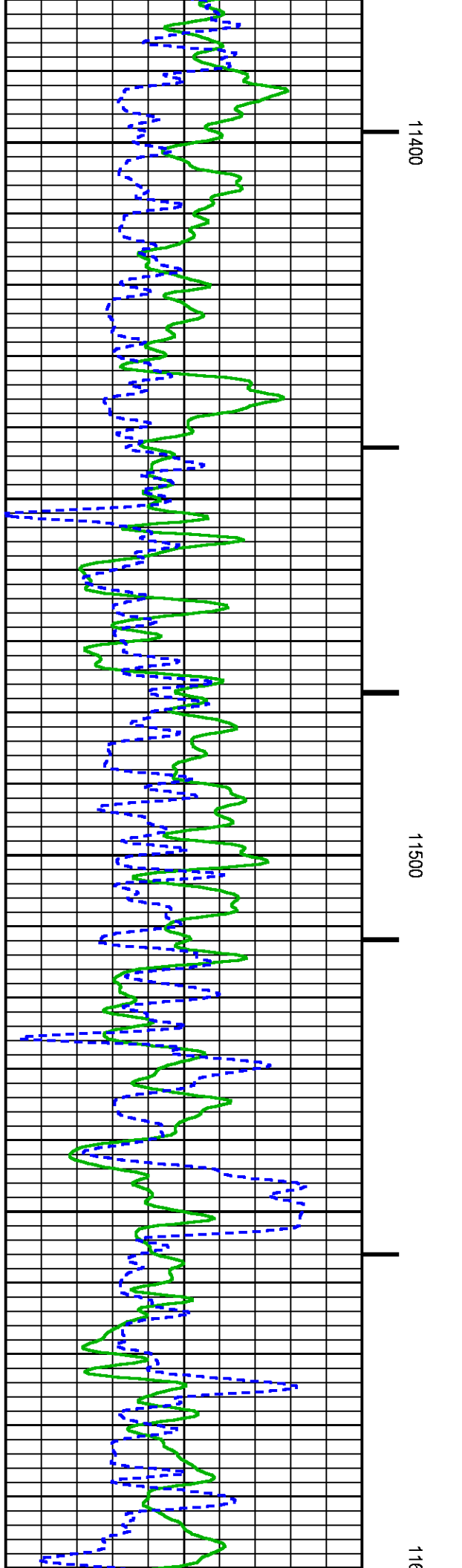
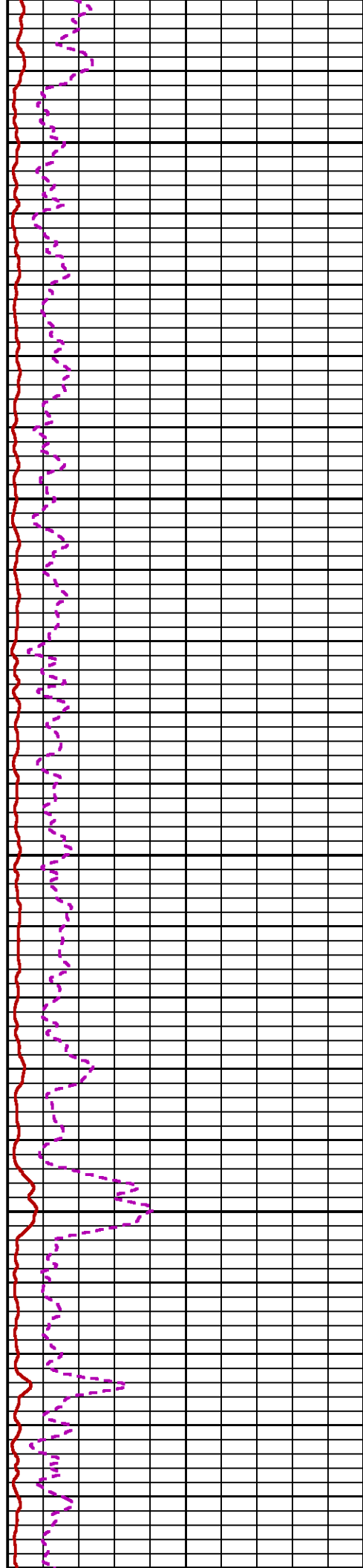
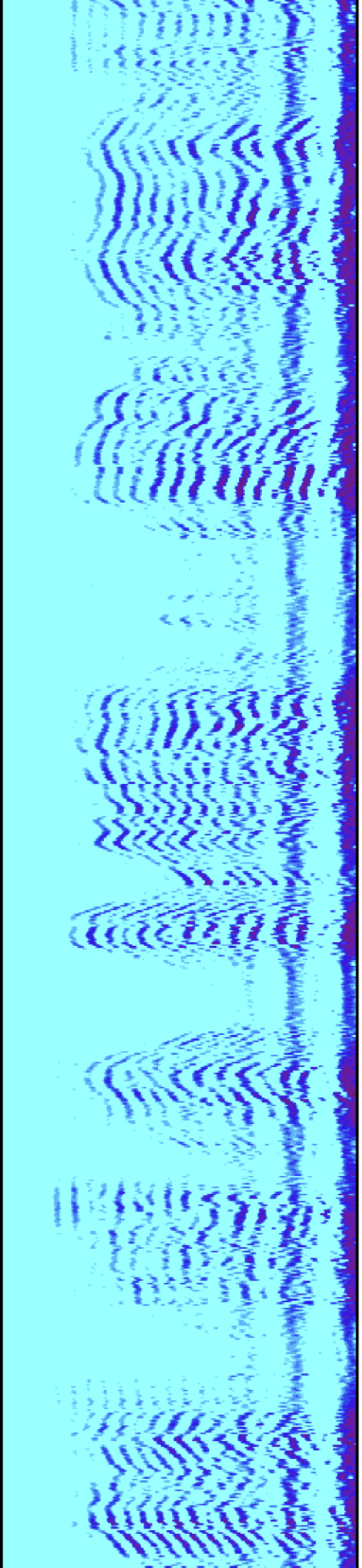


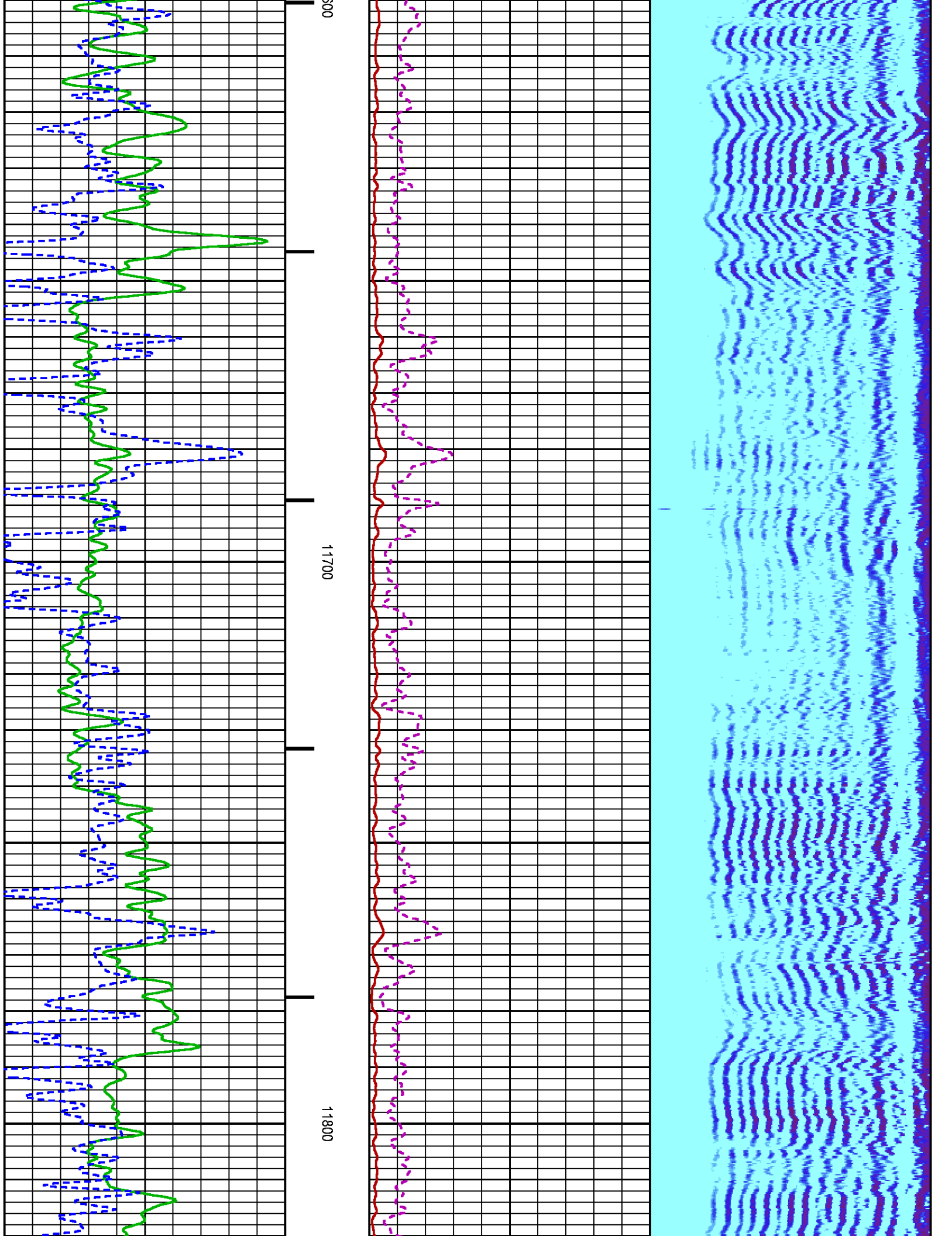


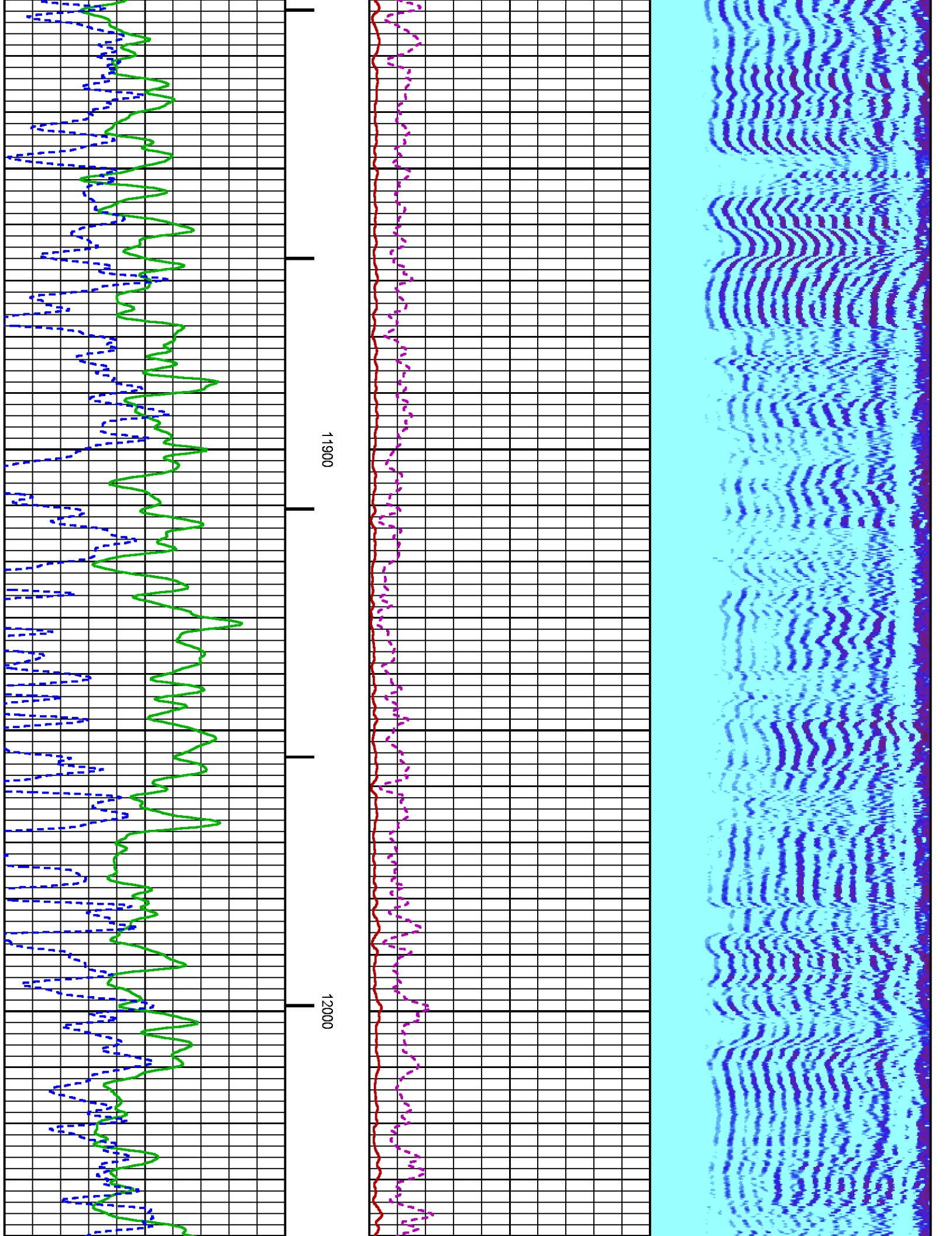


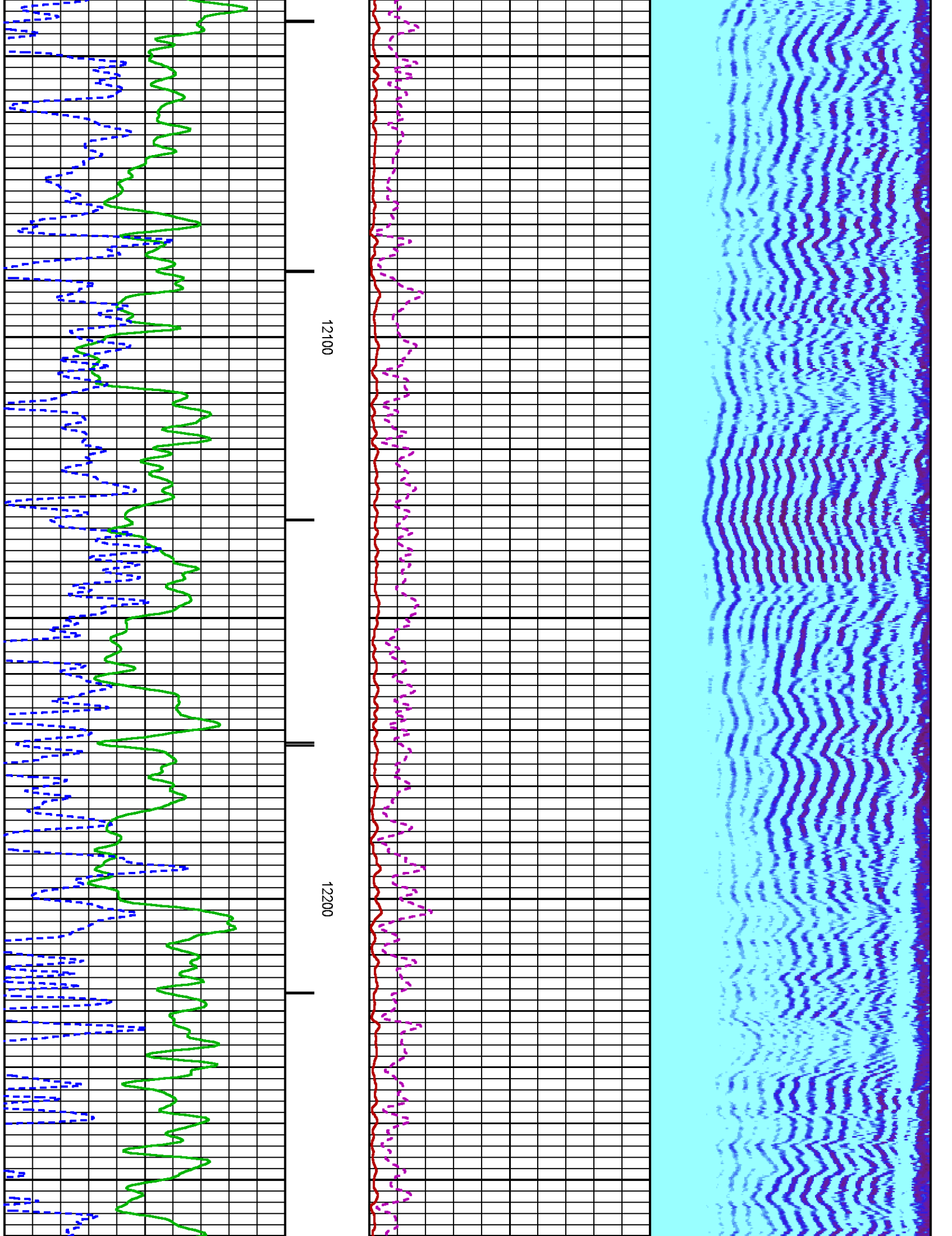


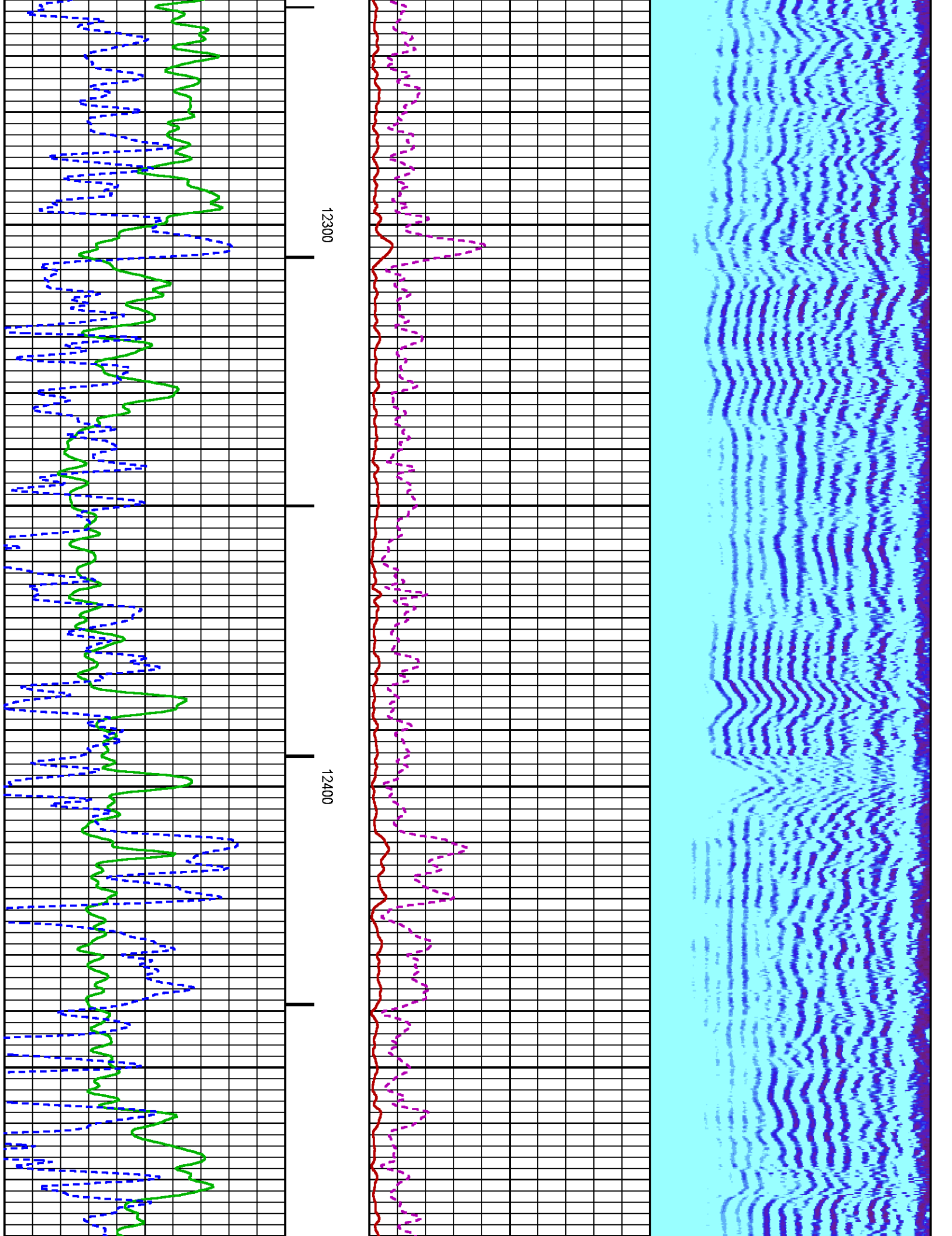


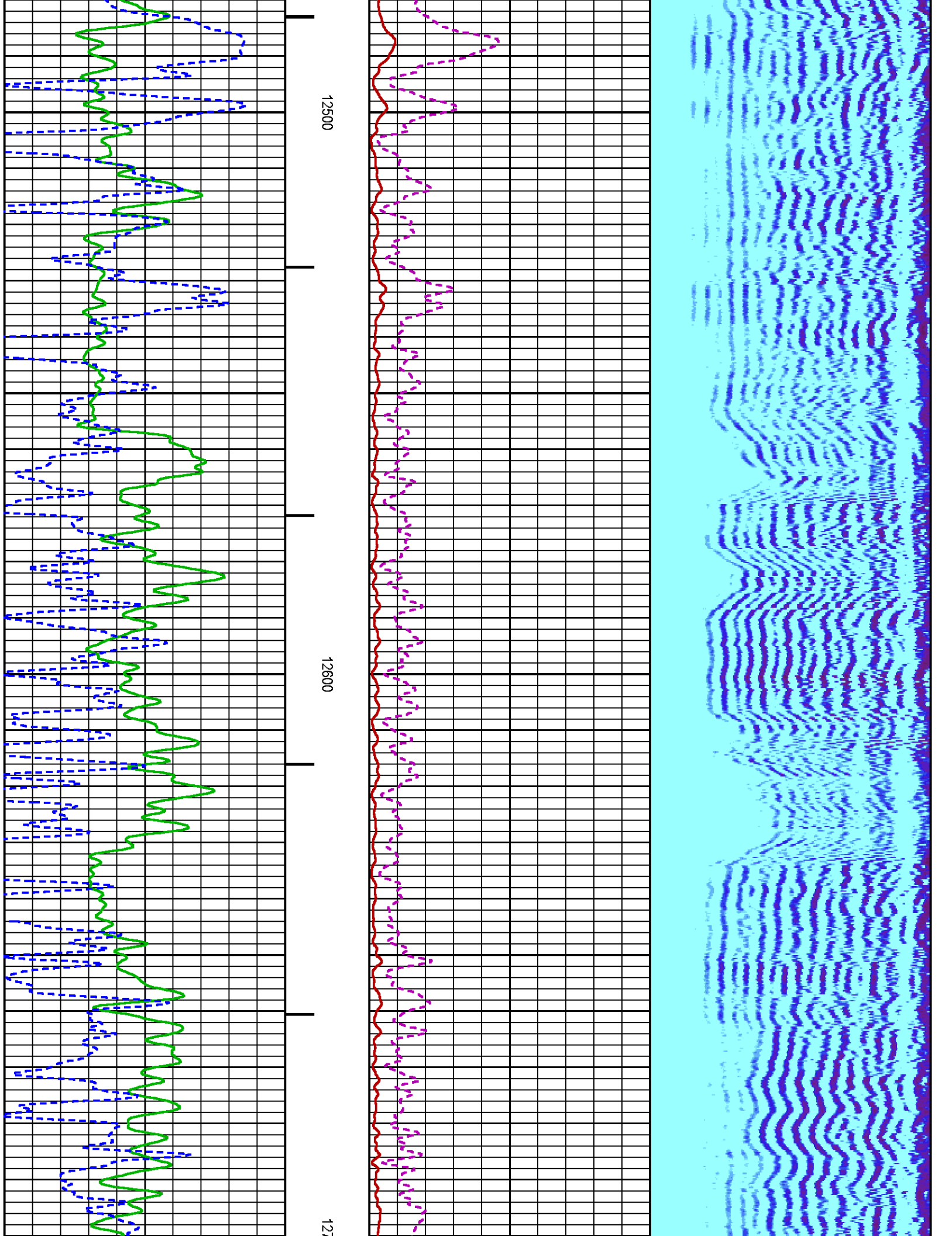


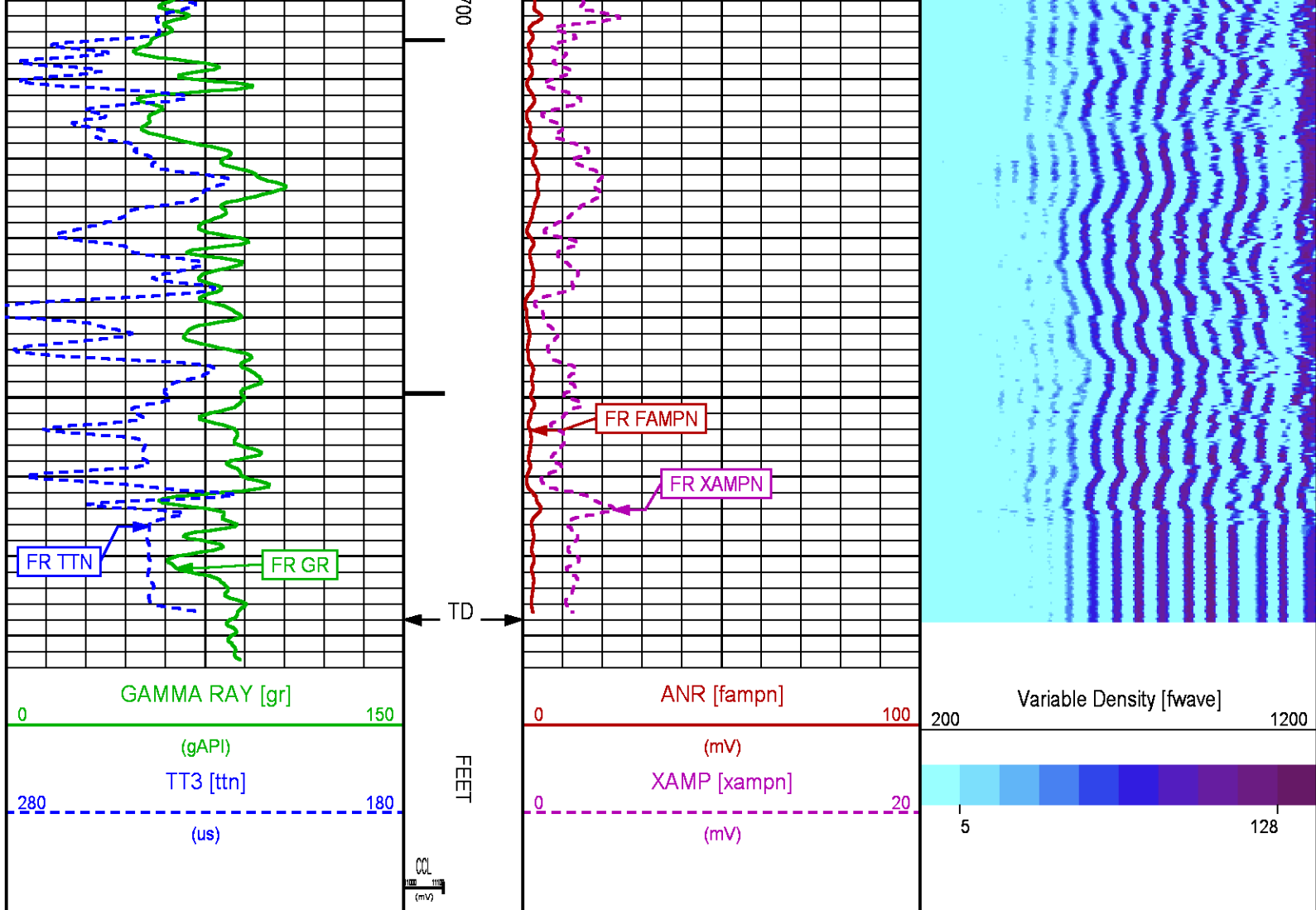












REPEAT LOG 0 PSI

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

Updates: 1 Patches: 6

Plotted: Mon Mar 23 16:26:52 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH095502/n012eR02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 12498.000 ft BOTTOM DEPTH: 12798.500 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*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

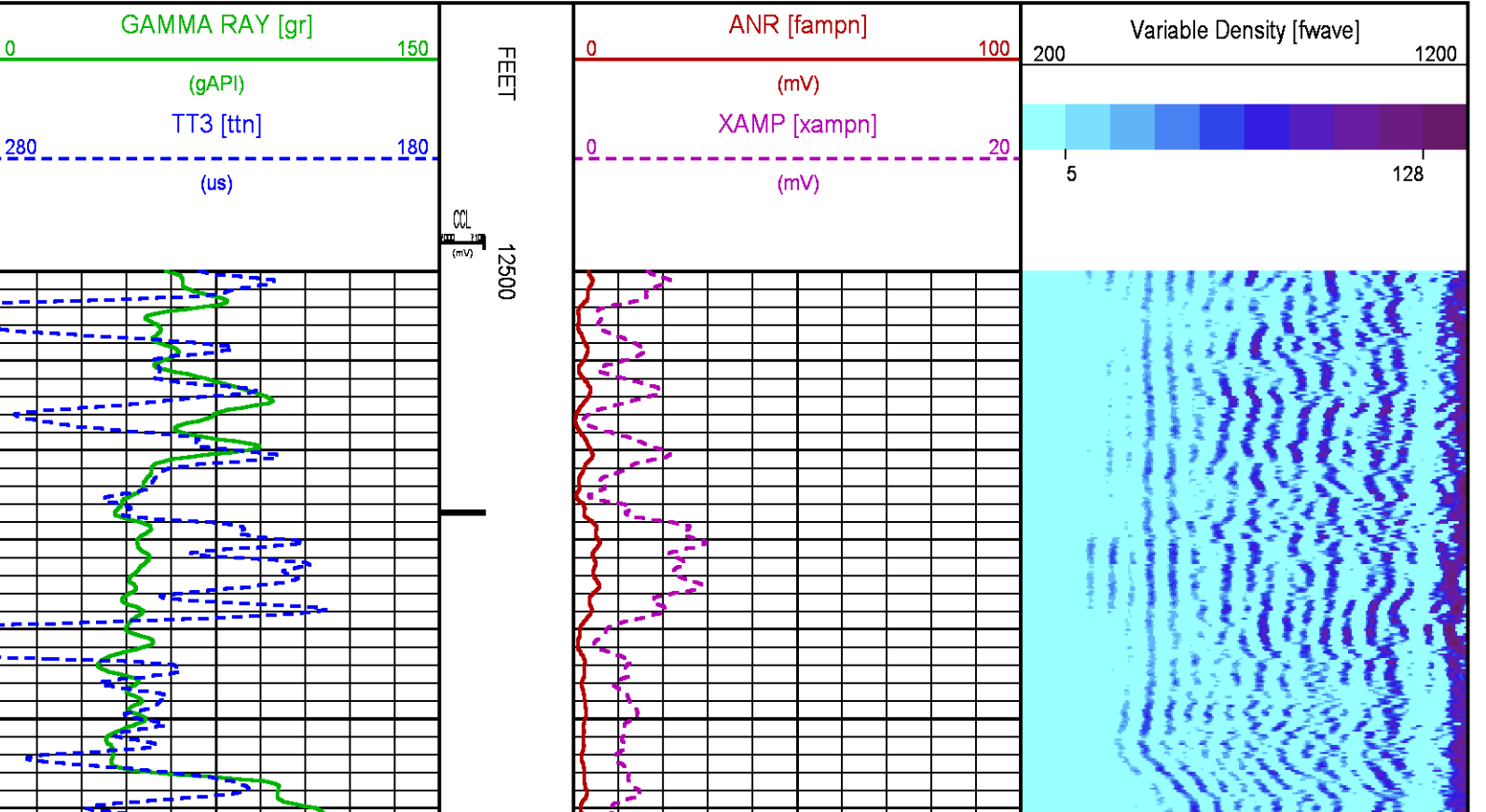
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 23 14:31:28 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 23 14:31:28 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 23 14:31:28 2015	FAR WAVE FORM
F1:GR	Mar 23 14:31:28 2015	GAMMA RAY
F1:TTN	Mar 23 14:31:28 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 23 14:31:28 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

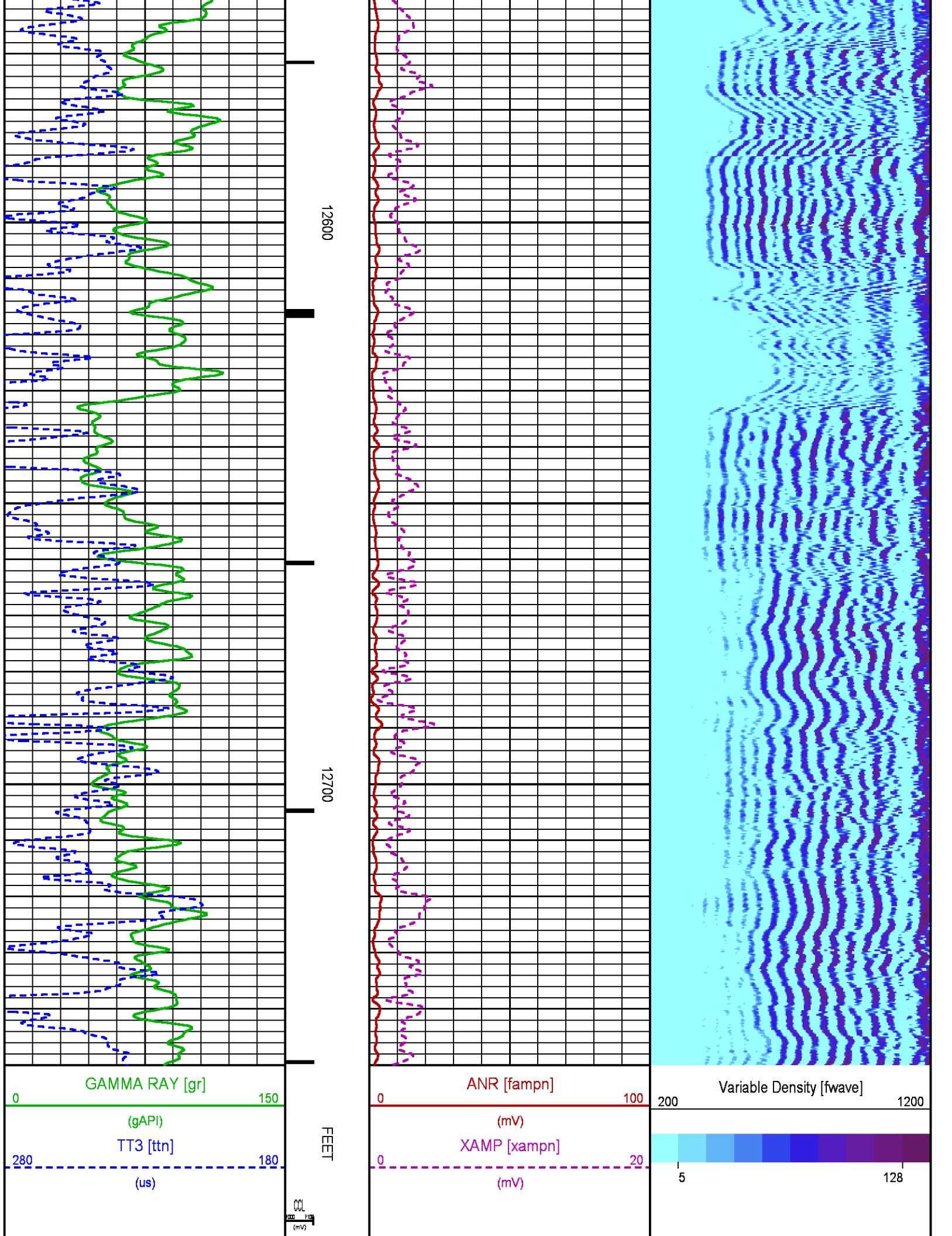
CURVE MEASURE POINT OFFSET

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 : HL6670:/dat1a/CH095502/WPX_CBL_REPEAT_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval : 12500 - 12750 Feet

Data File 1 : F1 : HL6670:/dat1a/CH095502/REPEAT.xtf
Created On : Mar 23 14:31:28 2015
Company : WPX ENERGY
Well : FEDERAL RGU 33-23-198
Field : SULPHUR CREEK
File Interval : 12483.2 - 12797.5 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: 6

Plotted: Thu Mar 26 13:34:32 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH095502/n012eR01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 22.000 ft BOTTOM DEPTH: 12792.000 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 (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*)	-68	us	"	"
	TOOL DELAY (str2*)	-68	us	"	"
	TOOL DELAY (str3*)	-68	us	"	"
	TOOL DELAY (str4*)	-68	us	"	"
	TOOL DELAY (str5*)	-68	us	"	"
	TOOL DELAY (str6*)	-68	us	"	"
	TOOL DELAY (str7*)	-68	us	"	"
	TOOL DELAY (str8*)	-68	us	"	"
	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

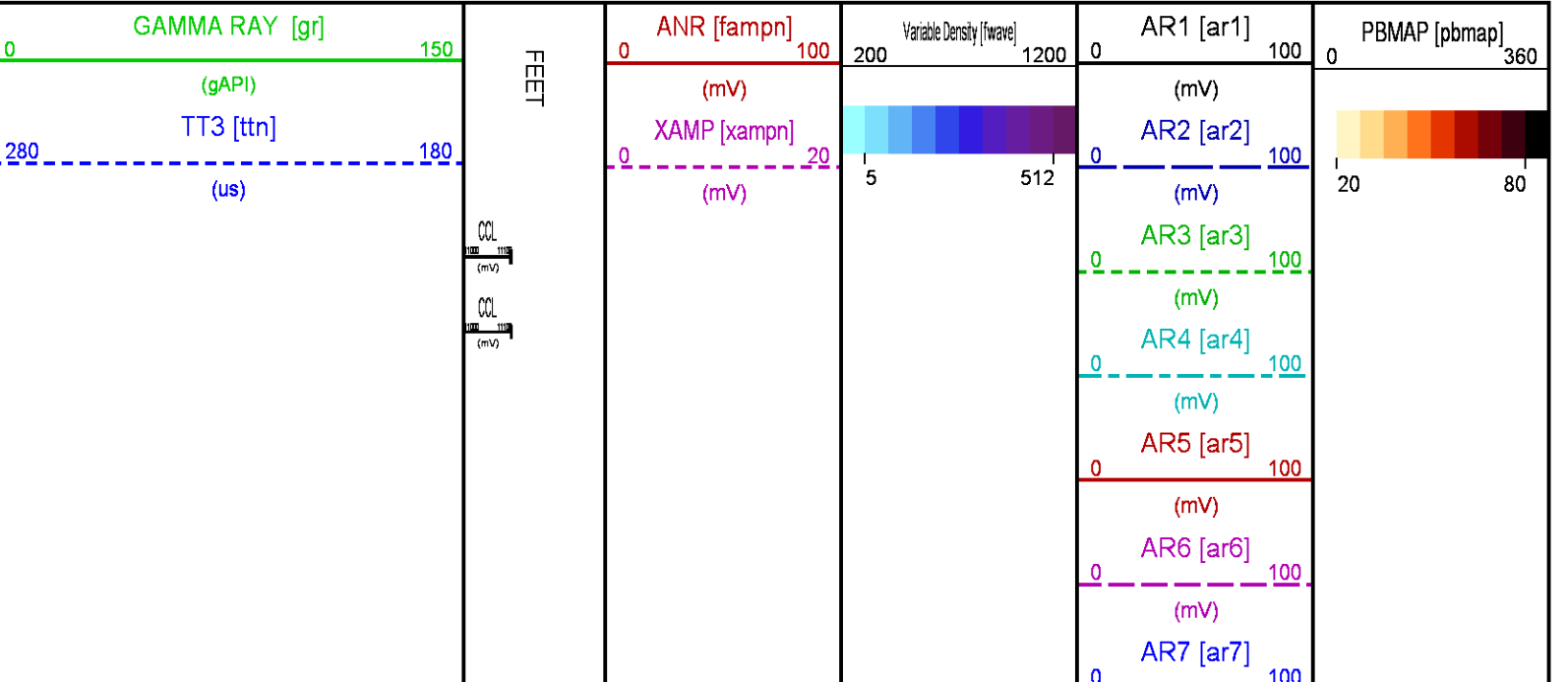
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"

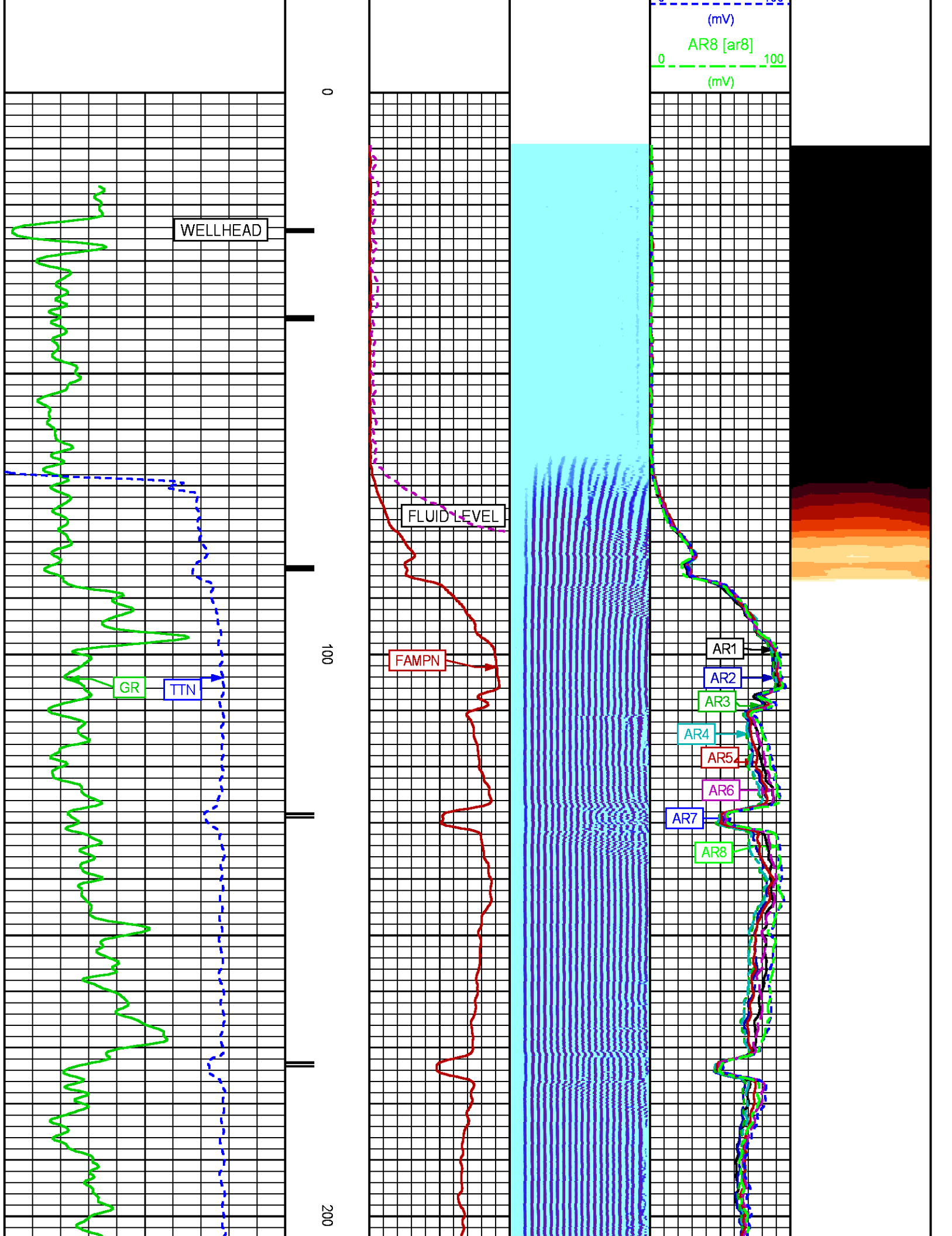
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	2	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

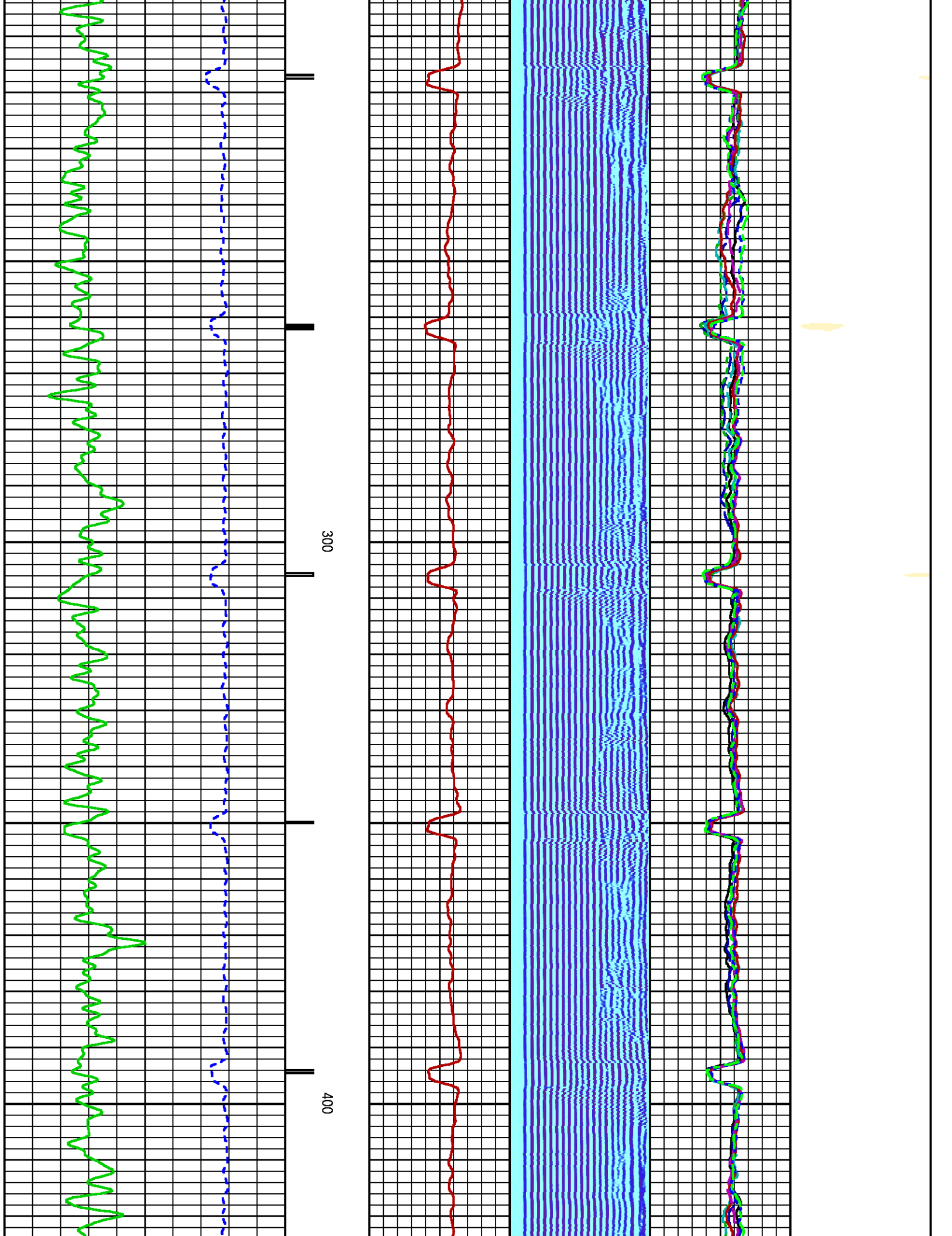
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Mar 23 13:59:38 2015	CASING COLLAR LOCATOR
F1:FAMPN	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 23 13:59:38 2015	FAR WAVE FORM
F1:GR	Mar 23 13:59:38 2015	GAMMA RAY
F1:PBMAP	Mar 23 13:59:38 2015	PERCENT BOND CEMENT MAP
F1:TTN	Mar 23 13:59:38 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 23 13:59:38 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

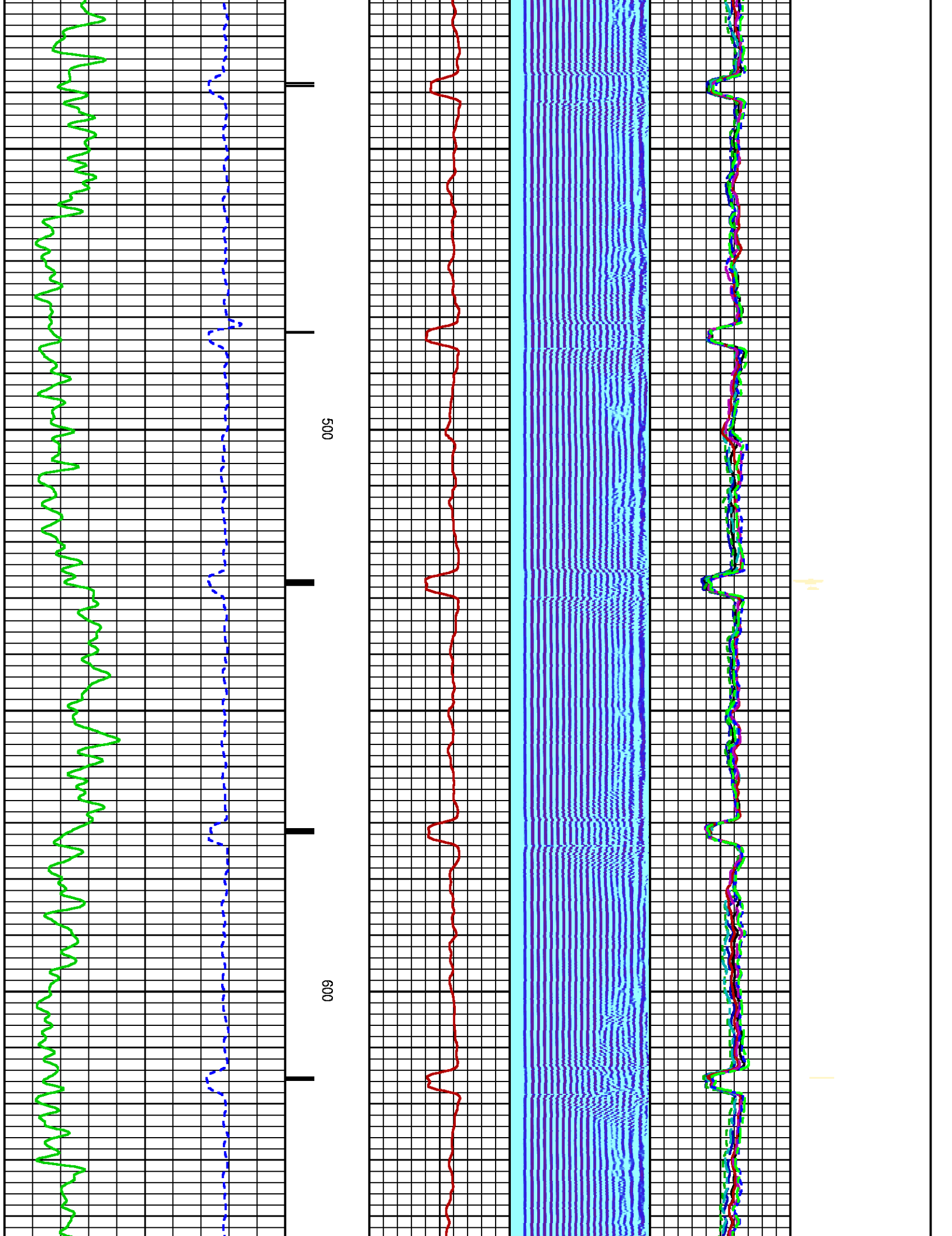
CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	13.75	AR5	13.75	CCL	8.50
AR2	13.75	AR6	13.75	FAMPN	13.75
AR3	13.75	AR7	13.75	GR	6.50
AR4	13.75	AR8	13.75	TTN	13.75

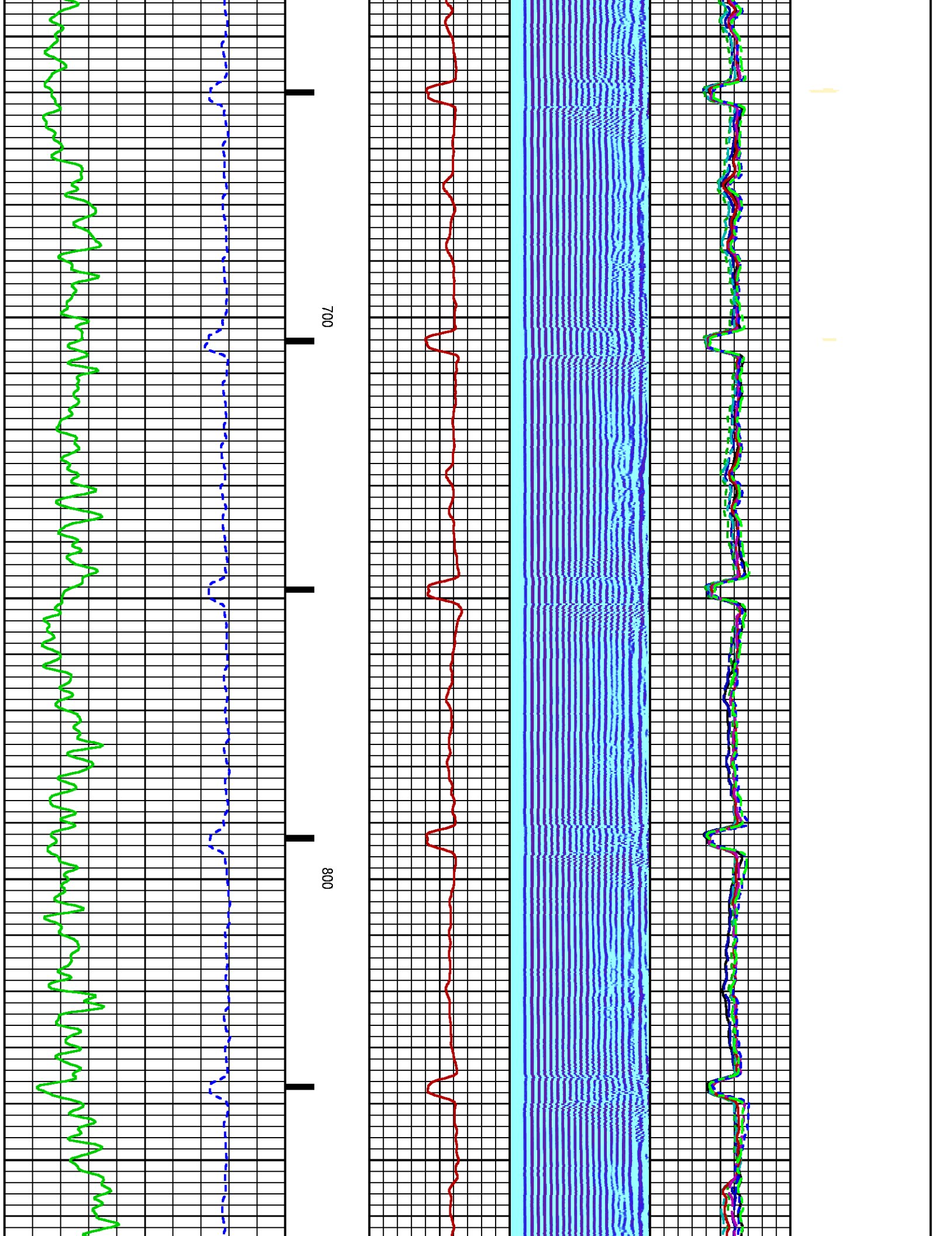
Presentation	: HL6670:/dat1a/CH095502/WPX_CBL_SECONDARY_PRESENTATION.fvpdf [5"/100" Scale]
Plot Interval	: 0 - 12783 Feet
Data File 1	: F1 : HL6670:/dat1a/CH095502/33MAIN.xtf
Created On	: Mar 23 13:59:38 2015
Company	: WPX ENERGY
Well	: FEDERAL RGU 33-23-198
Field	: SULPHUR CREEK
File Interval	: 8.25 - 12792 Feet
OCT	: n012e

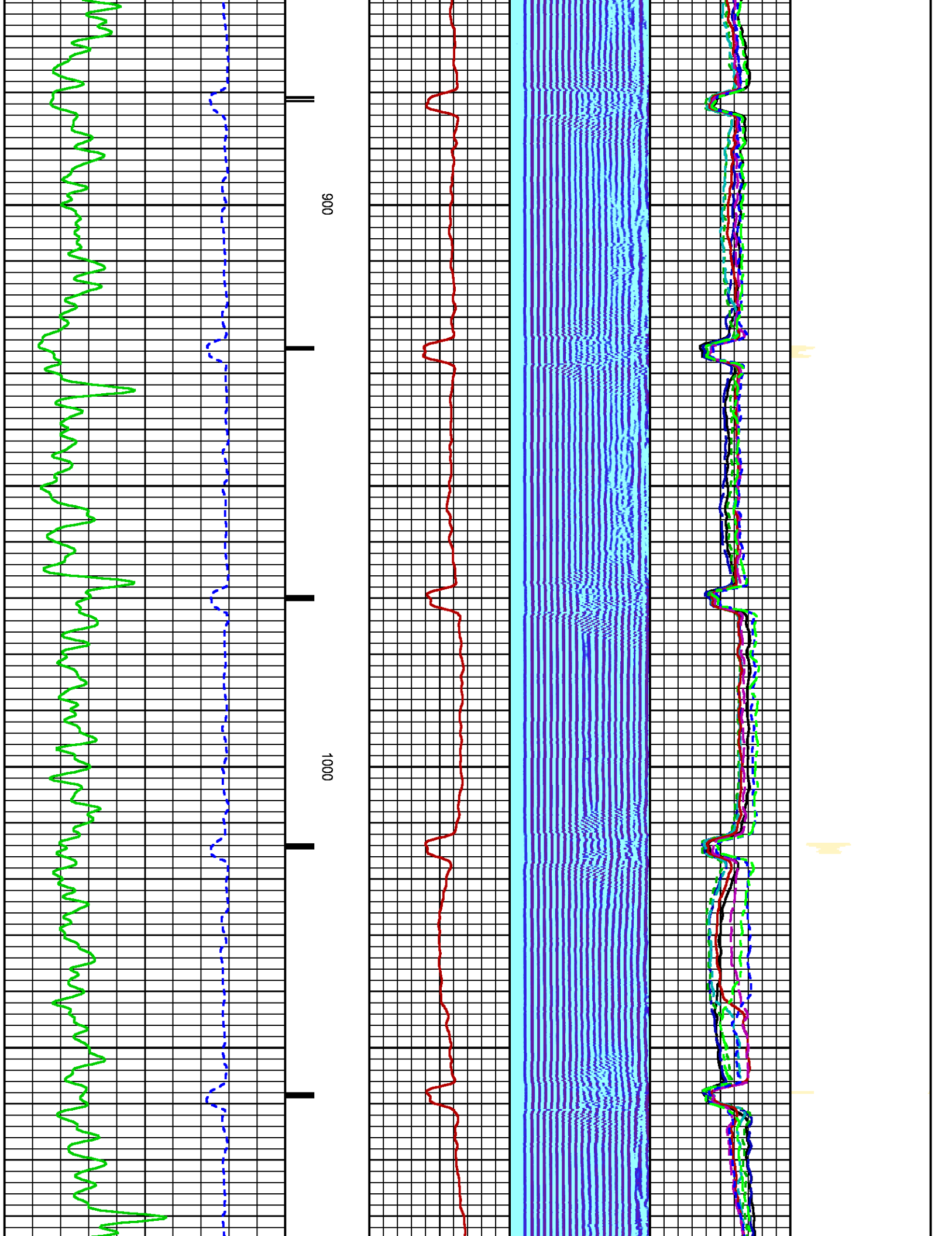


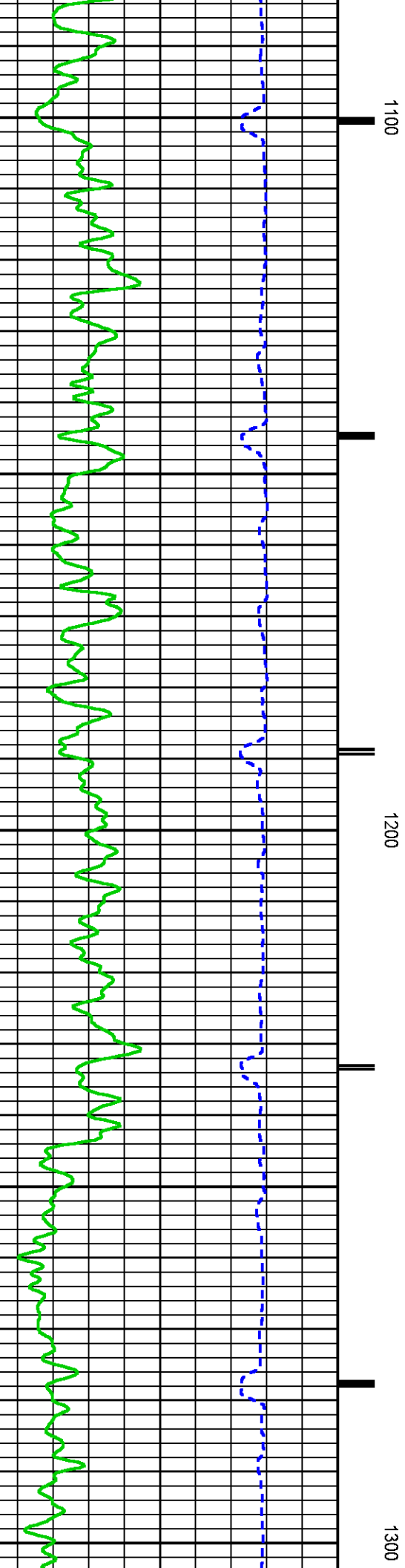
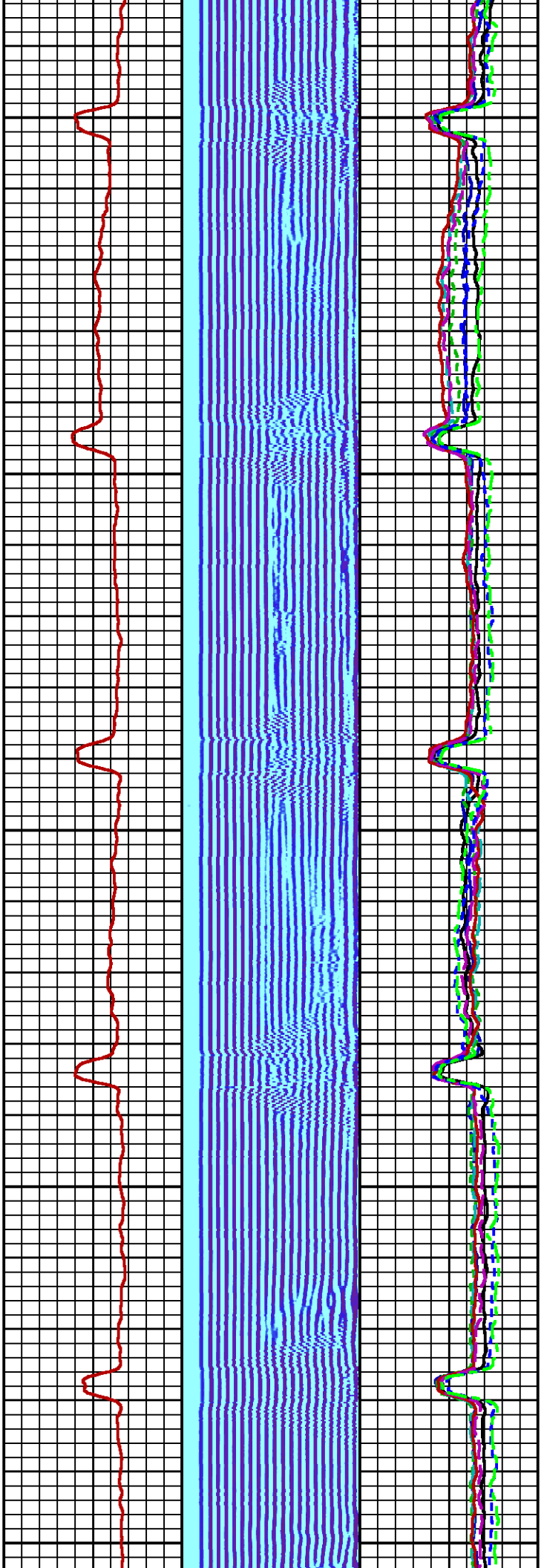


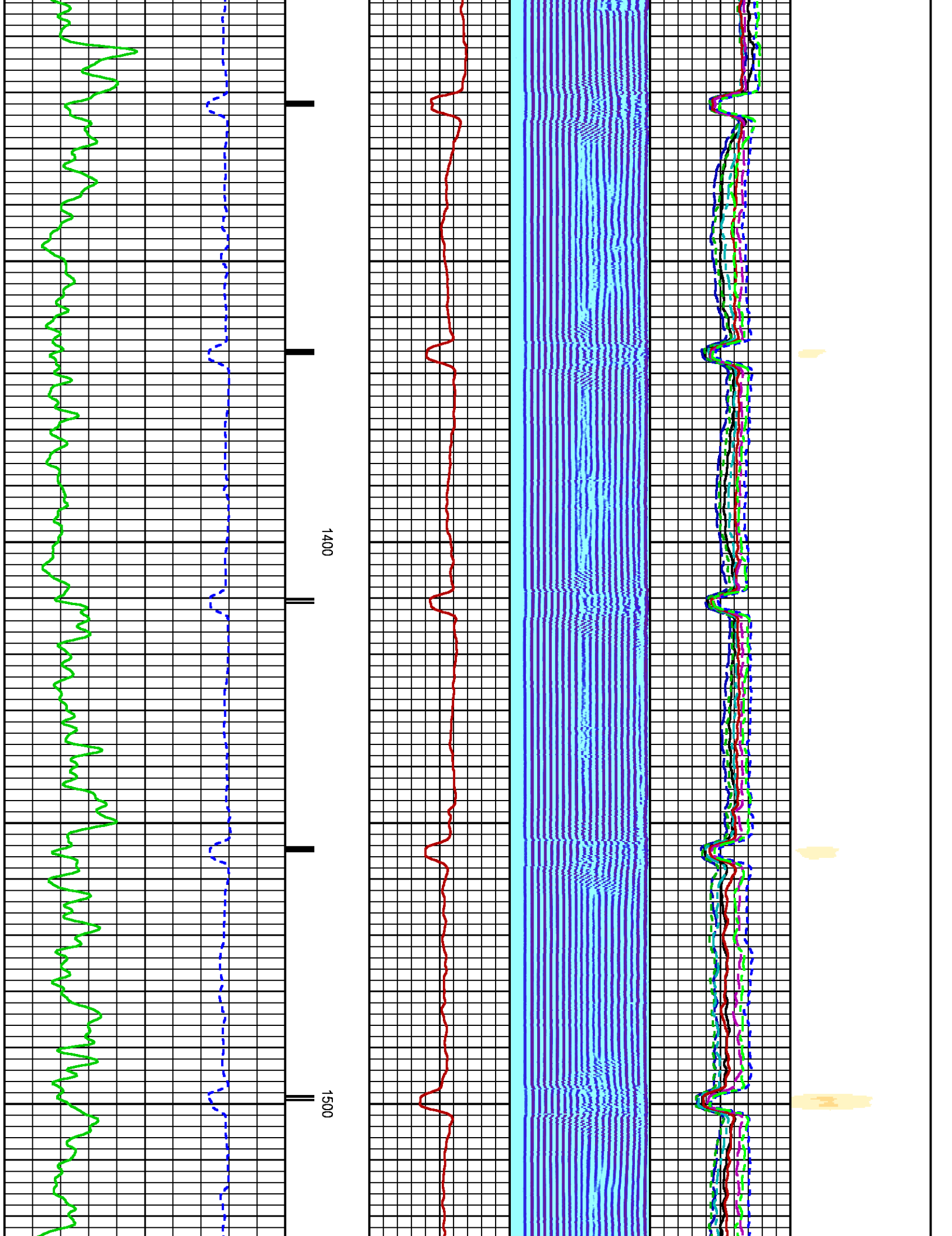


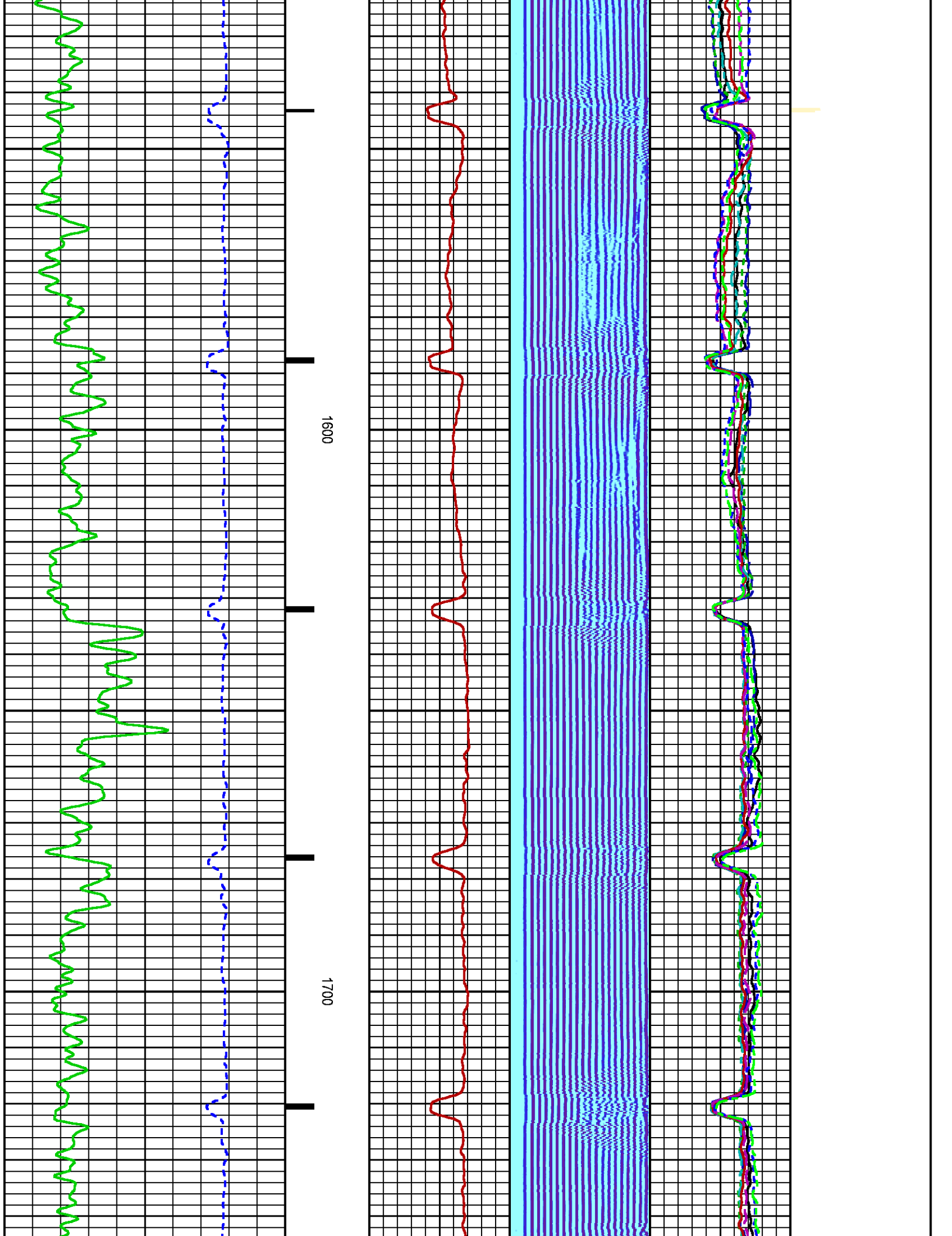


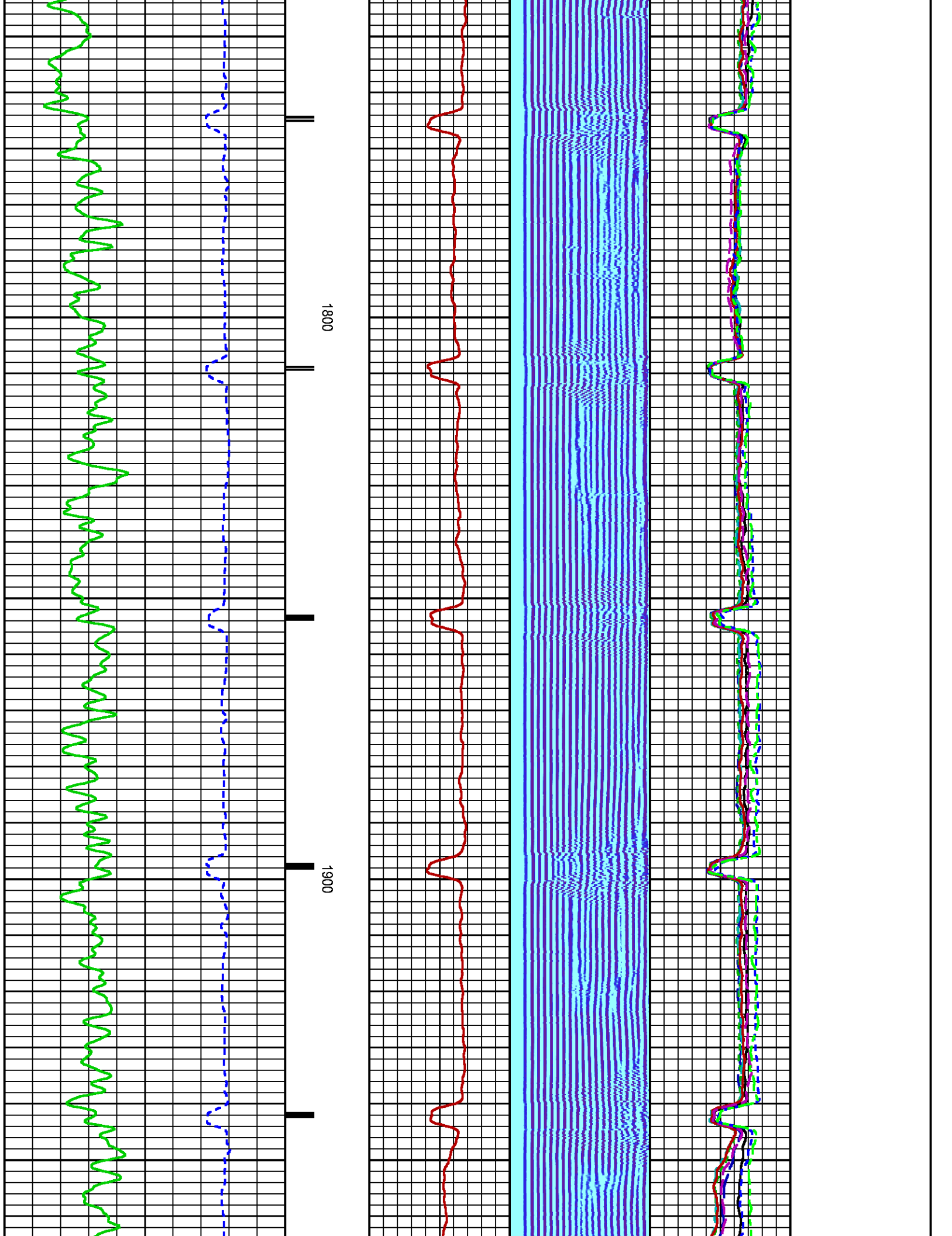


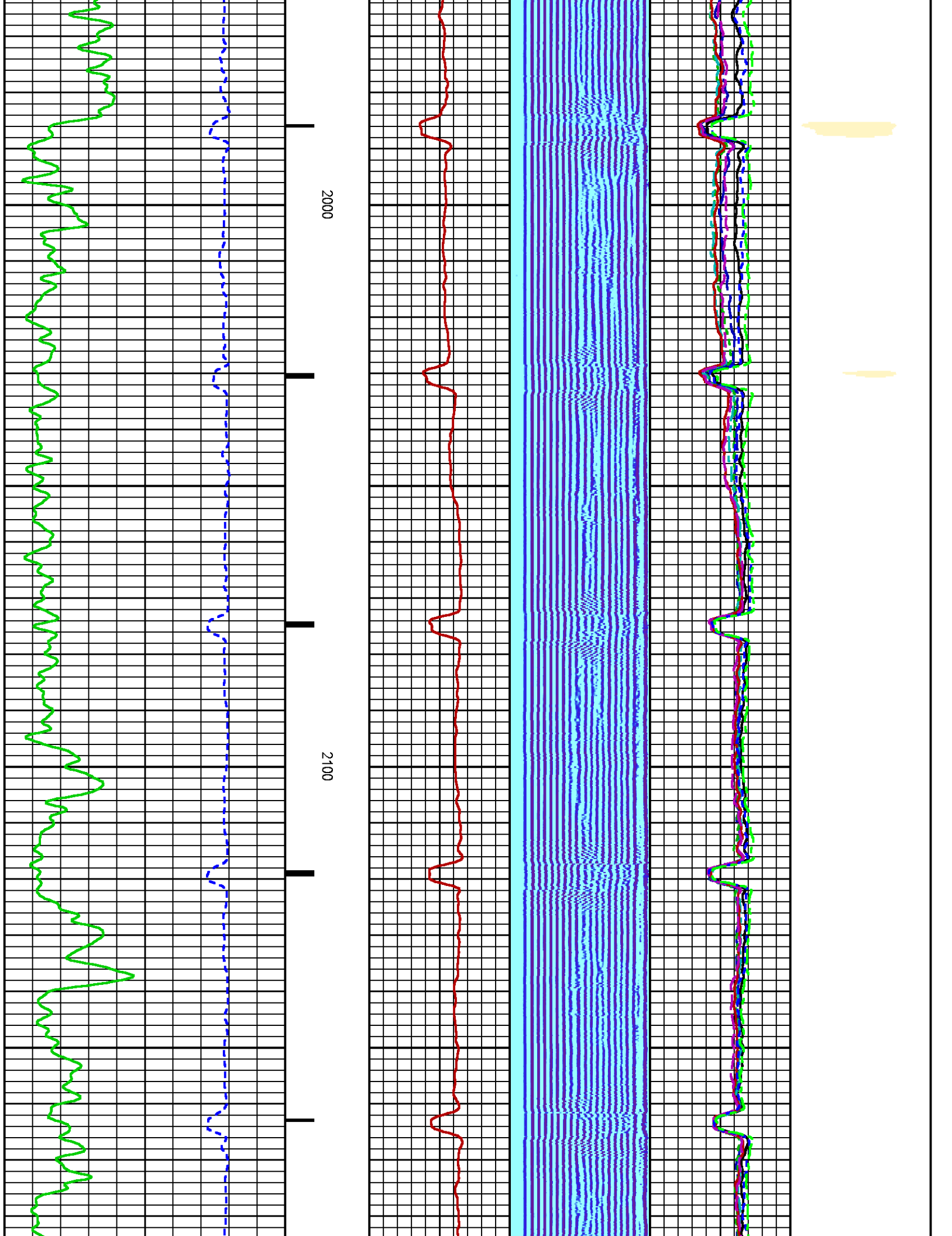


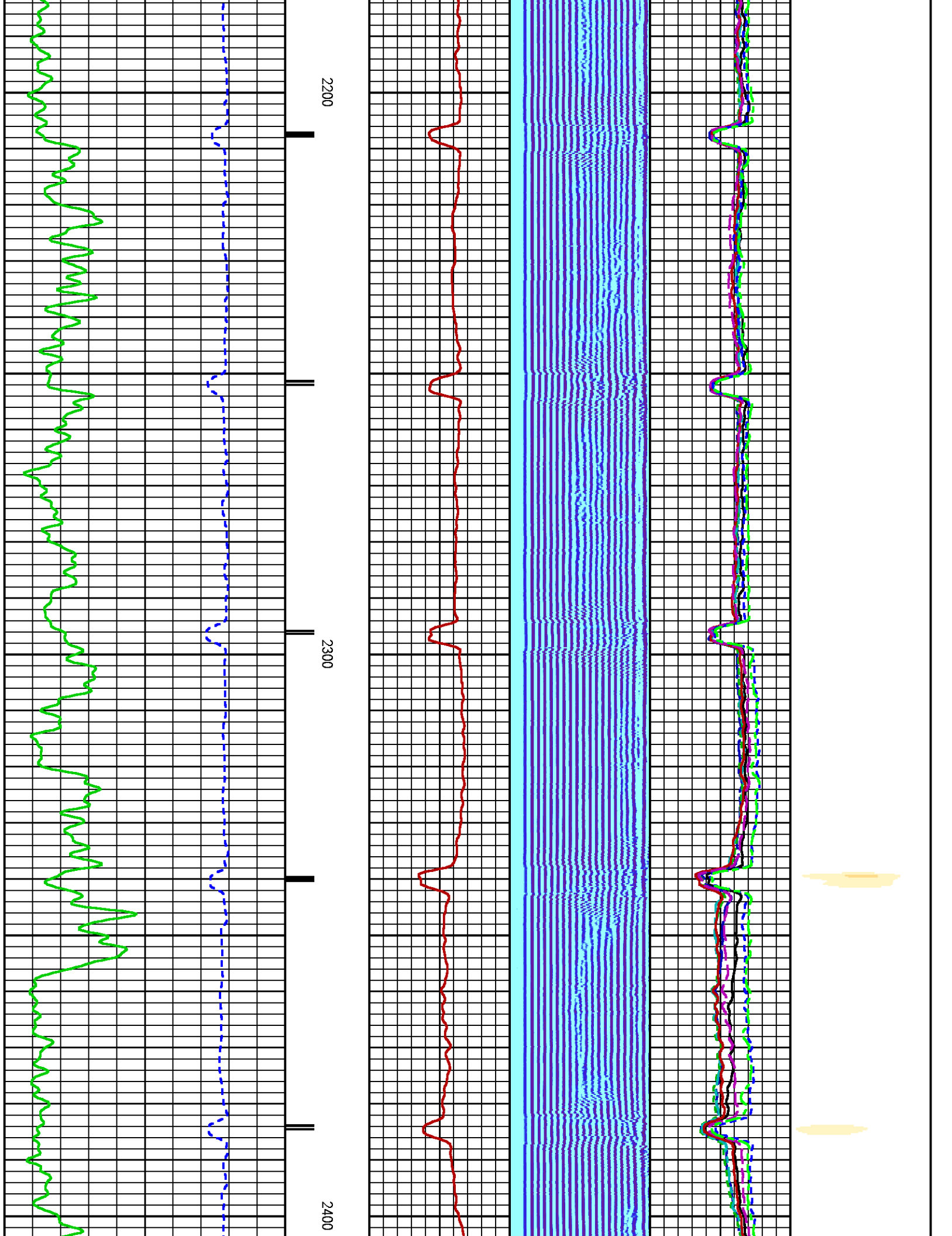


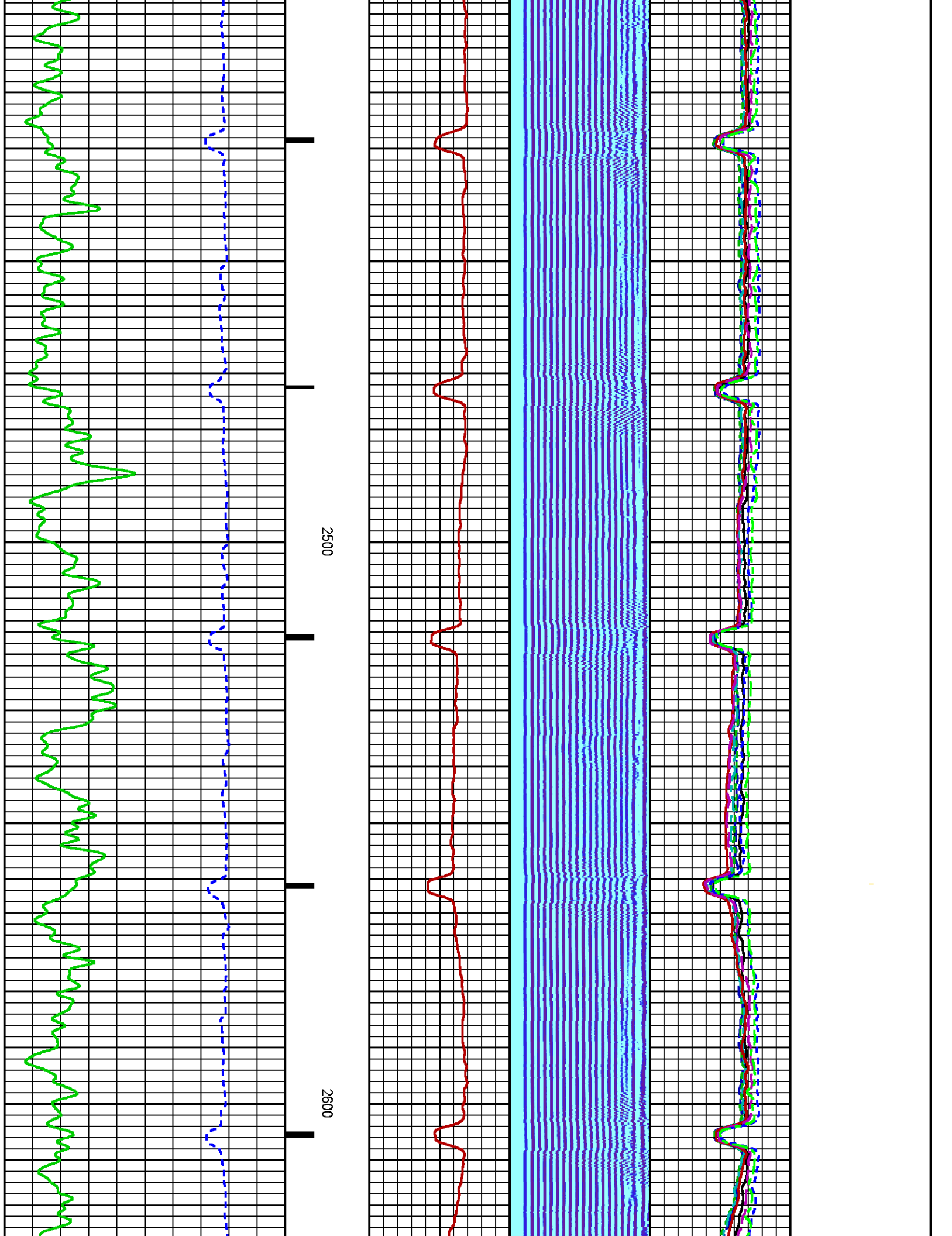


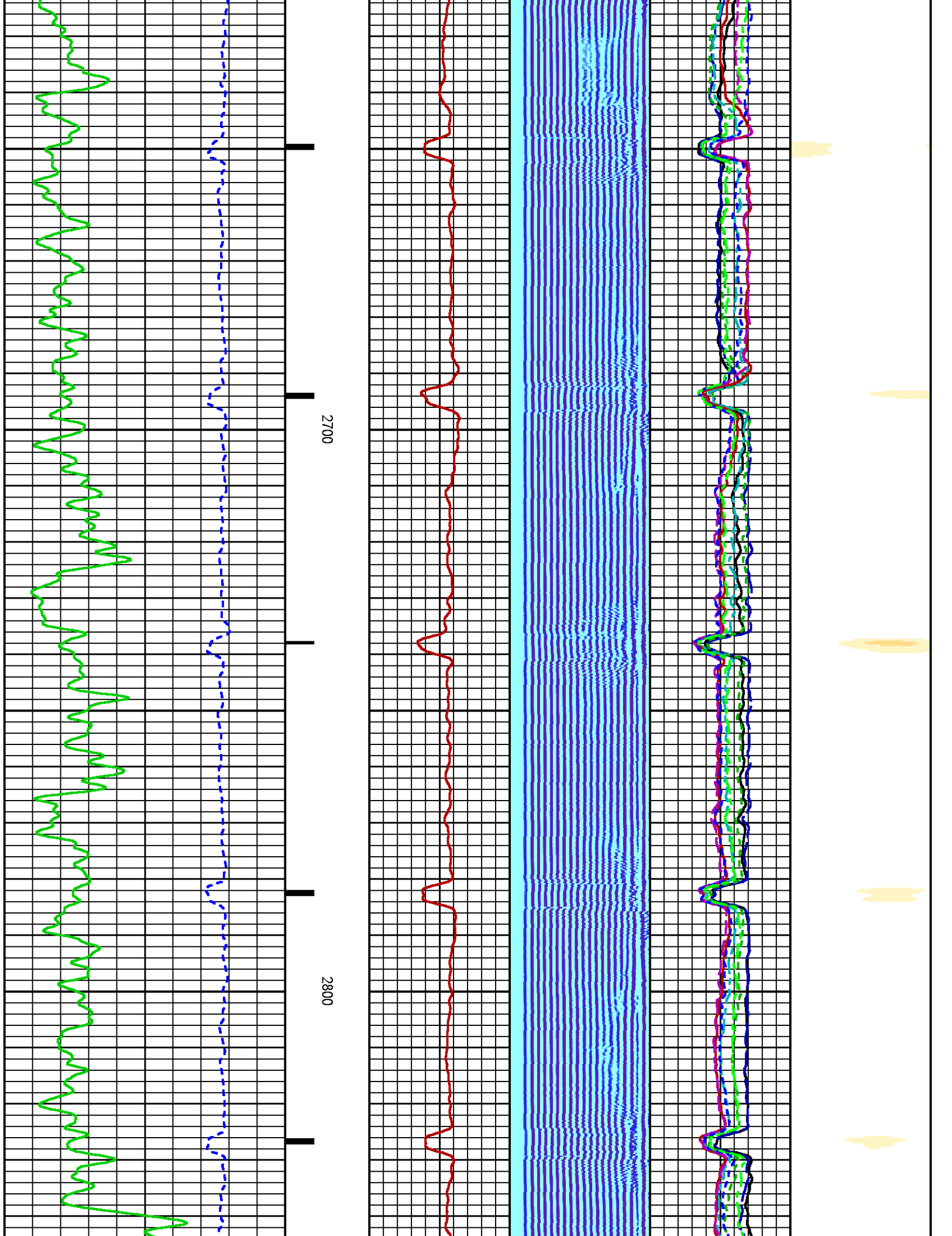


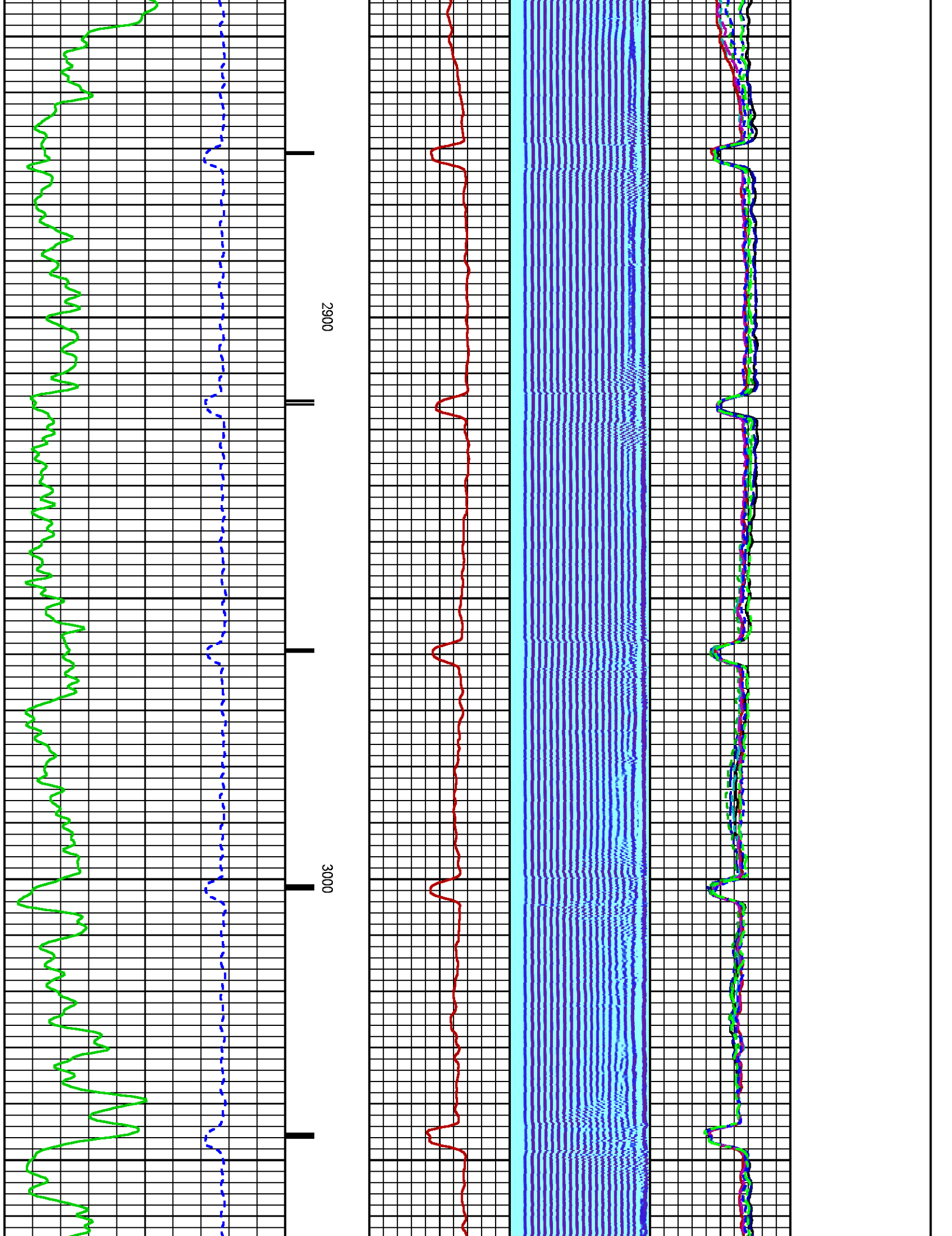


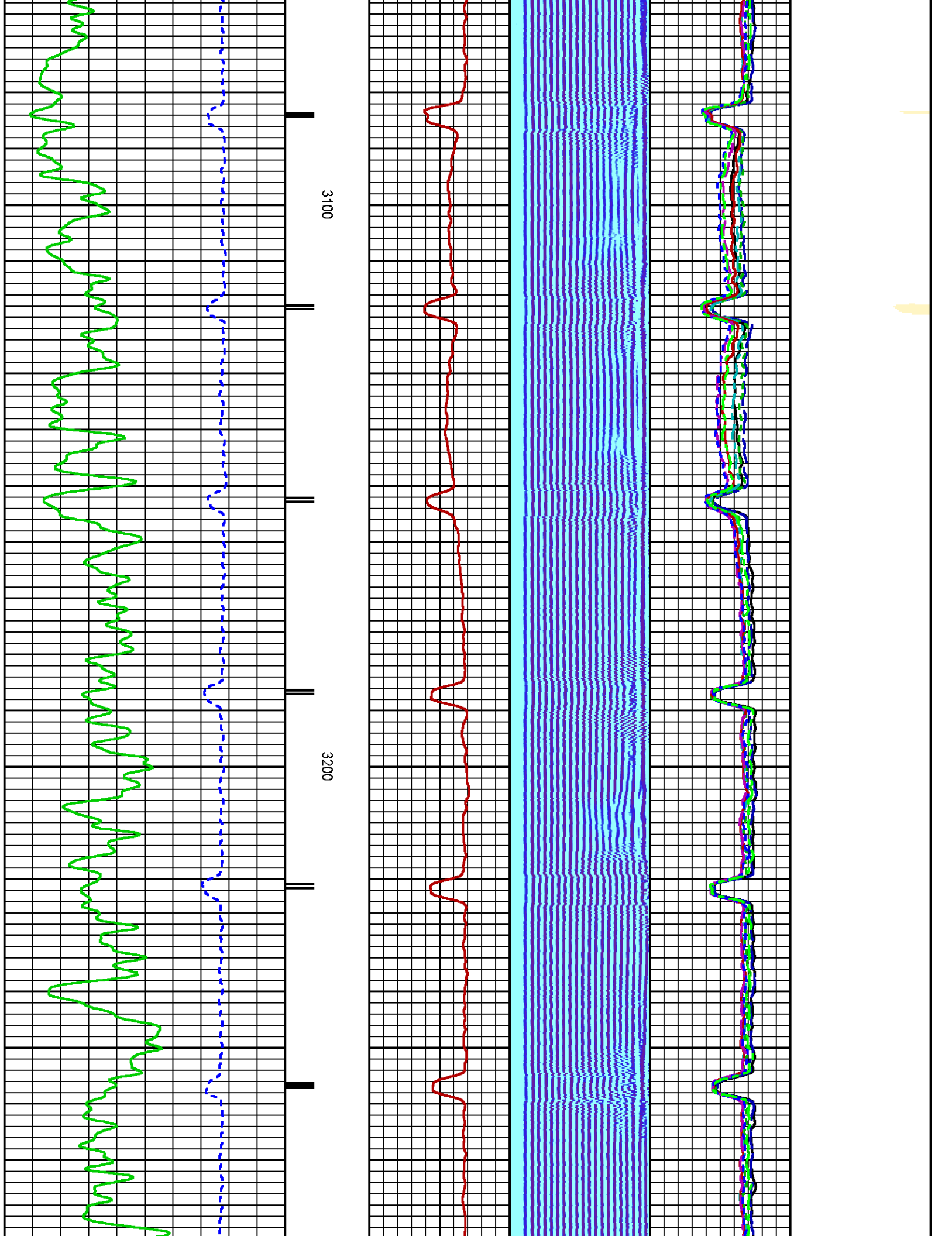


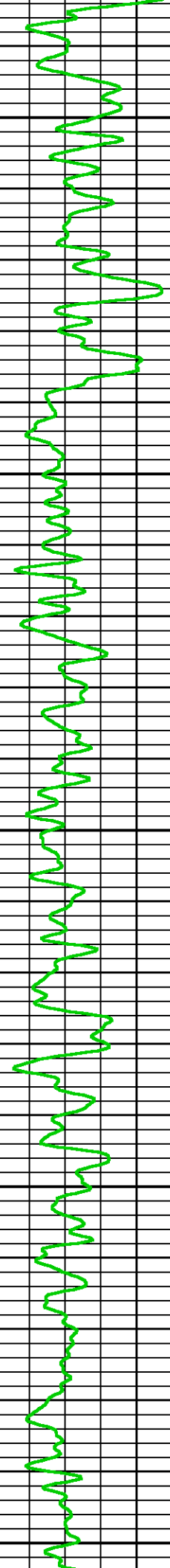
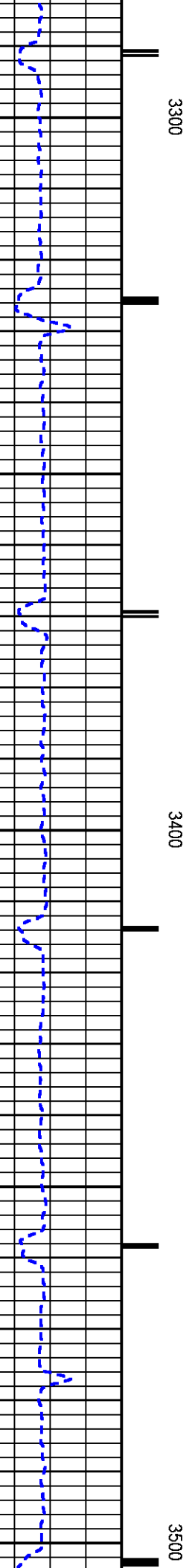
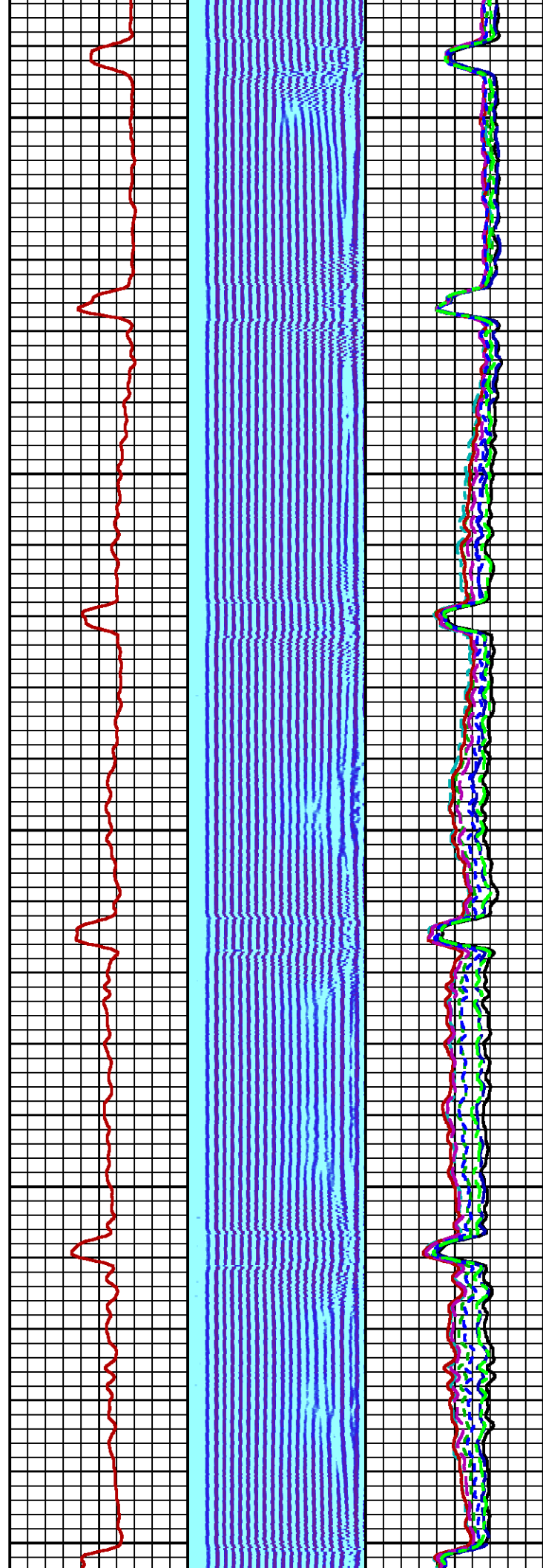
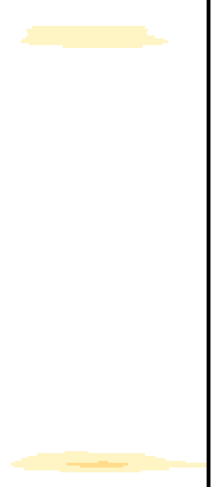


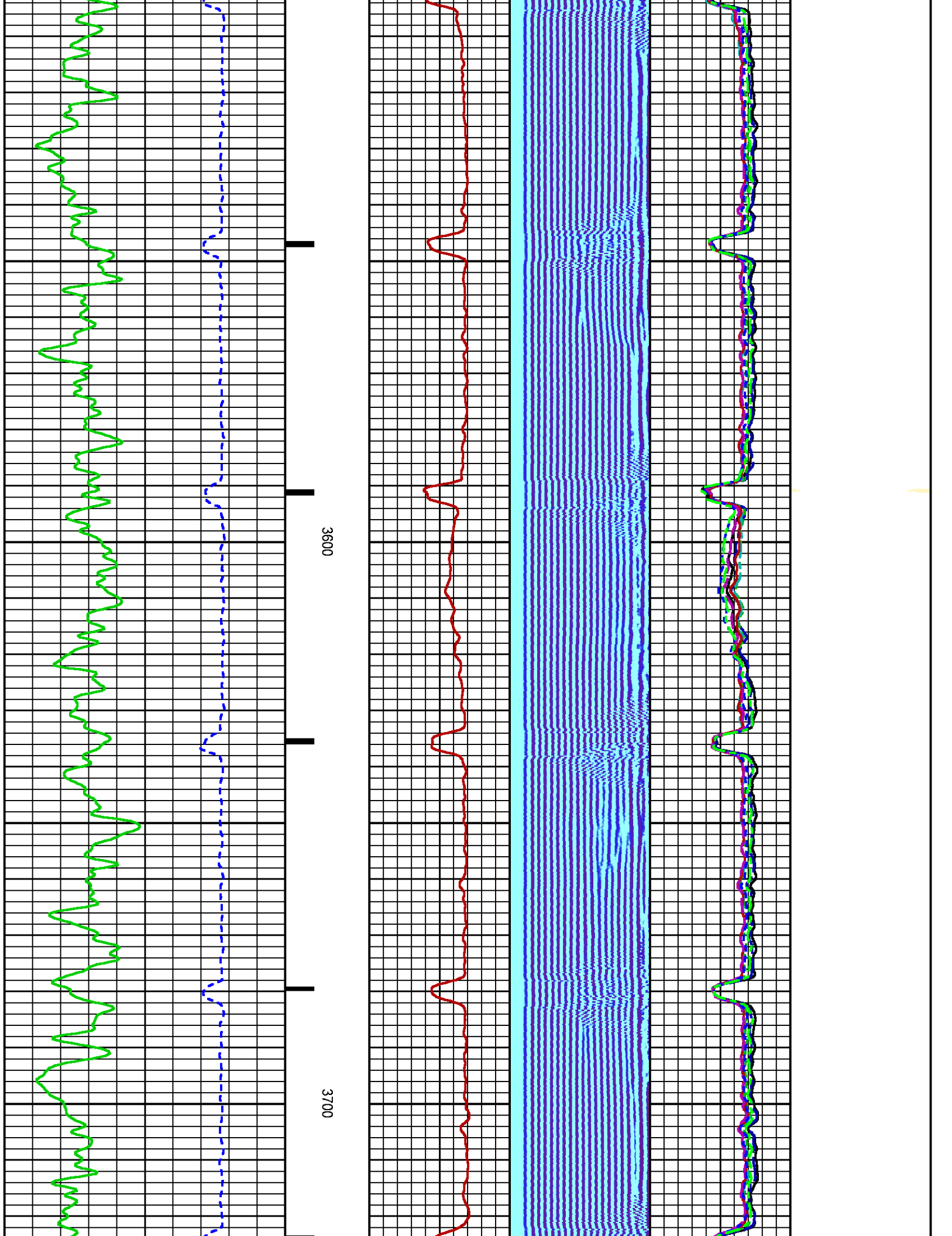


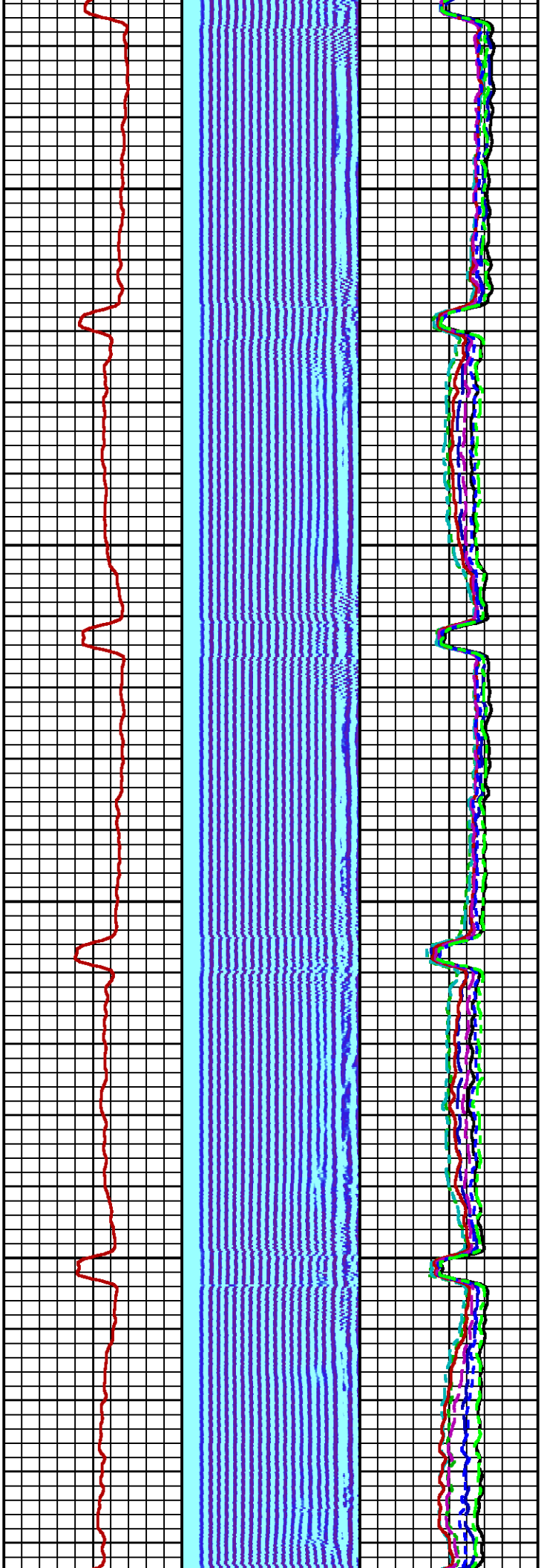






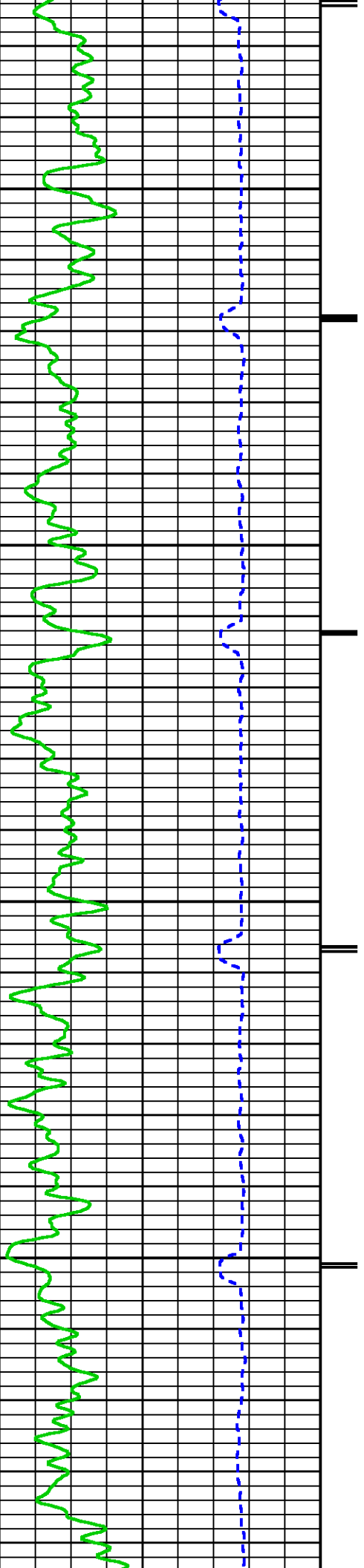


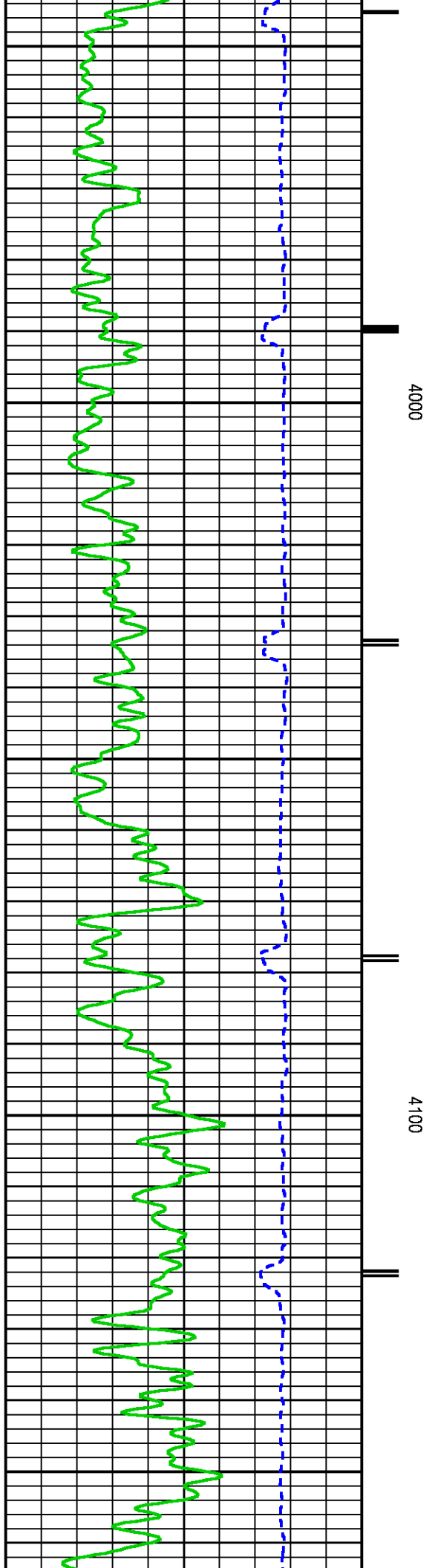
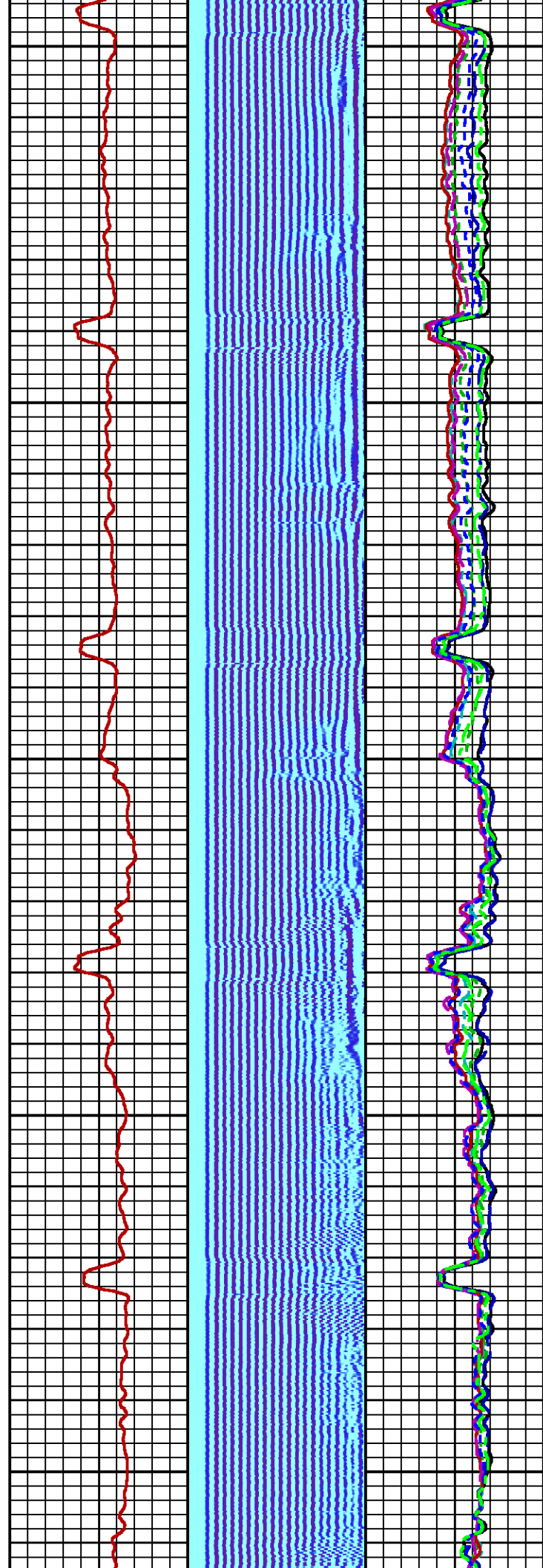


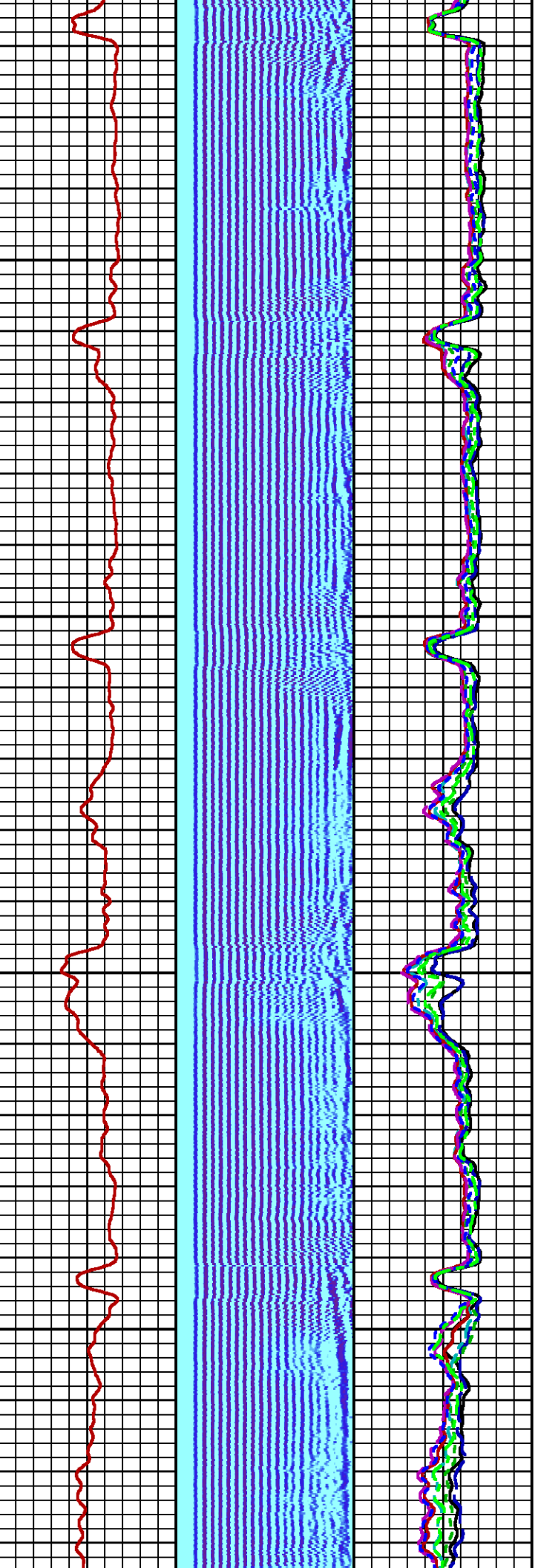


3800

3900

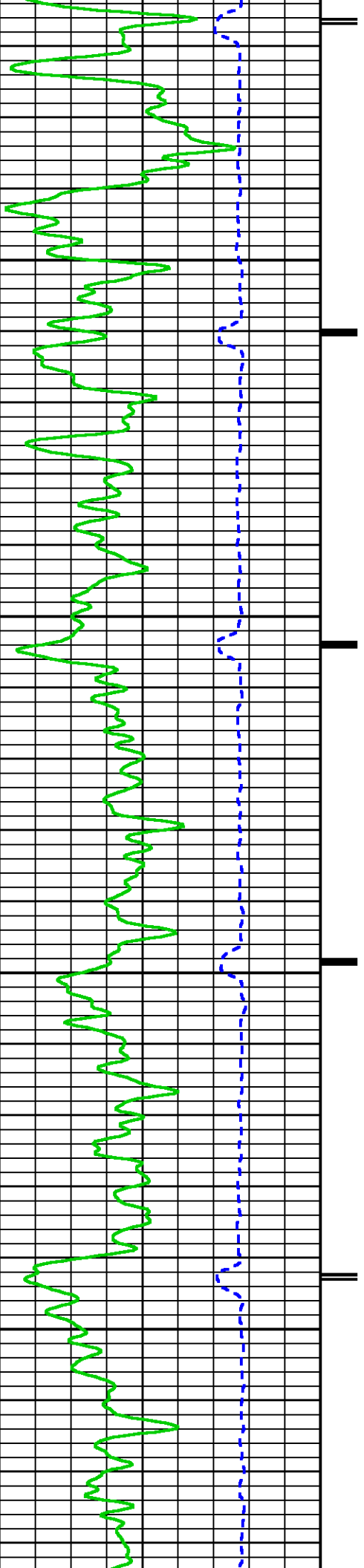


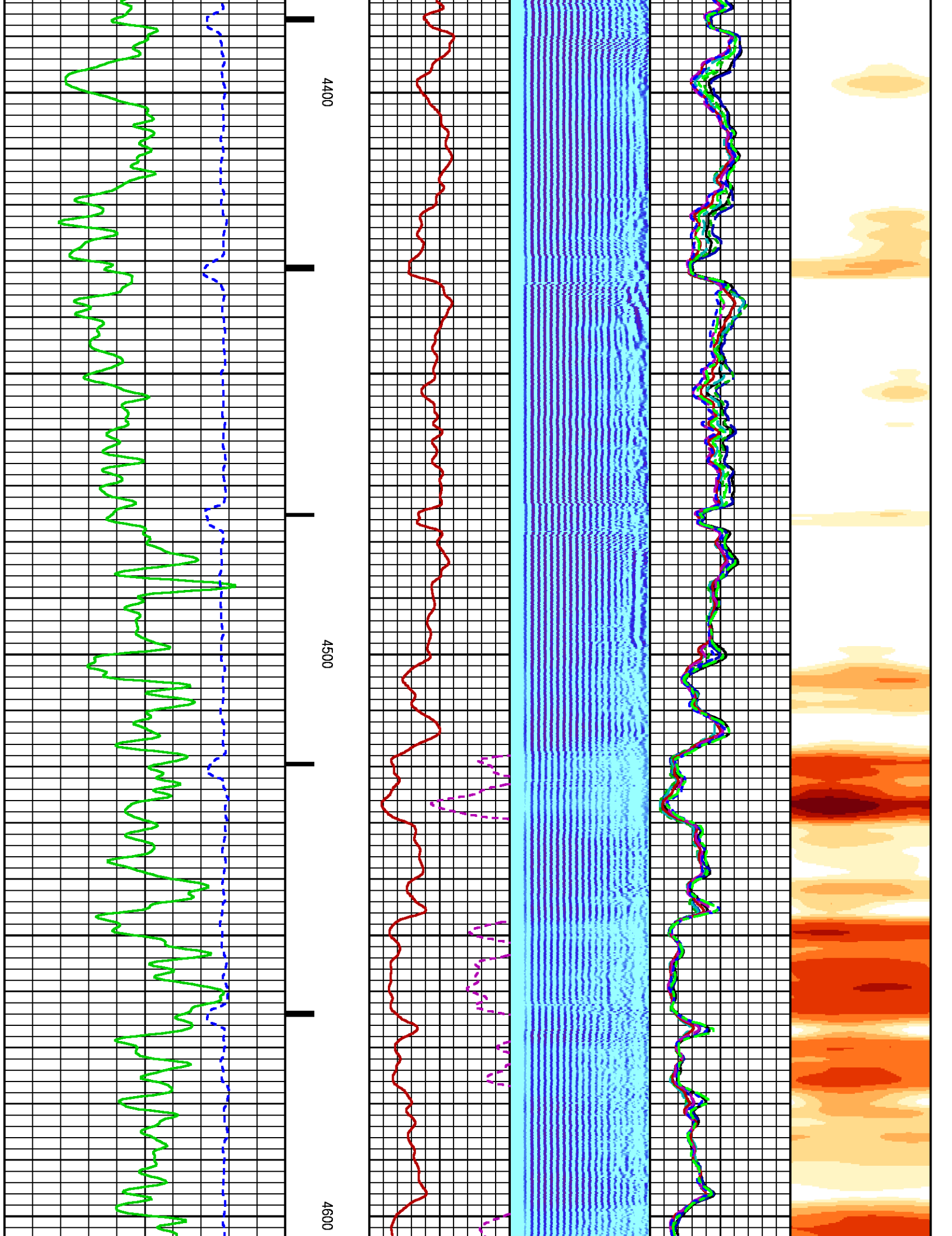


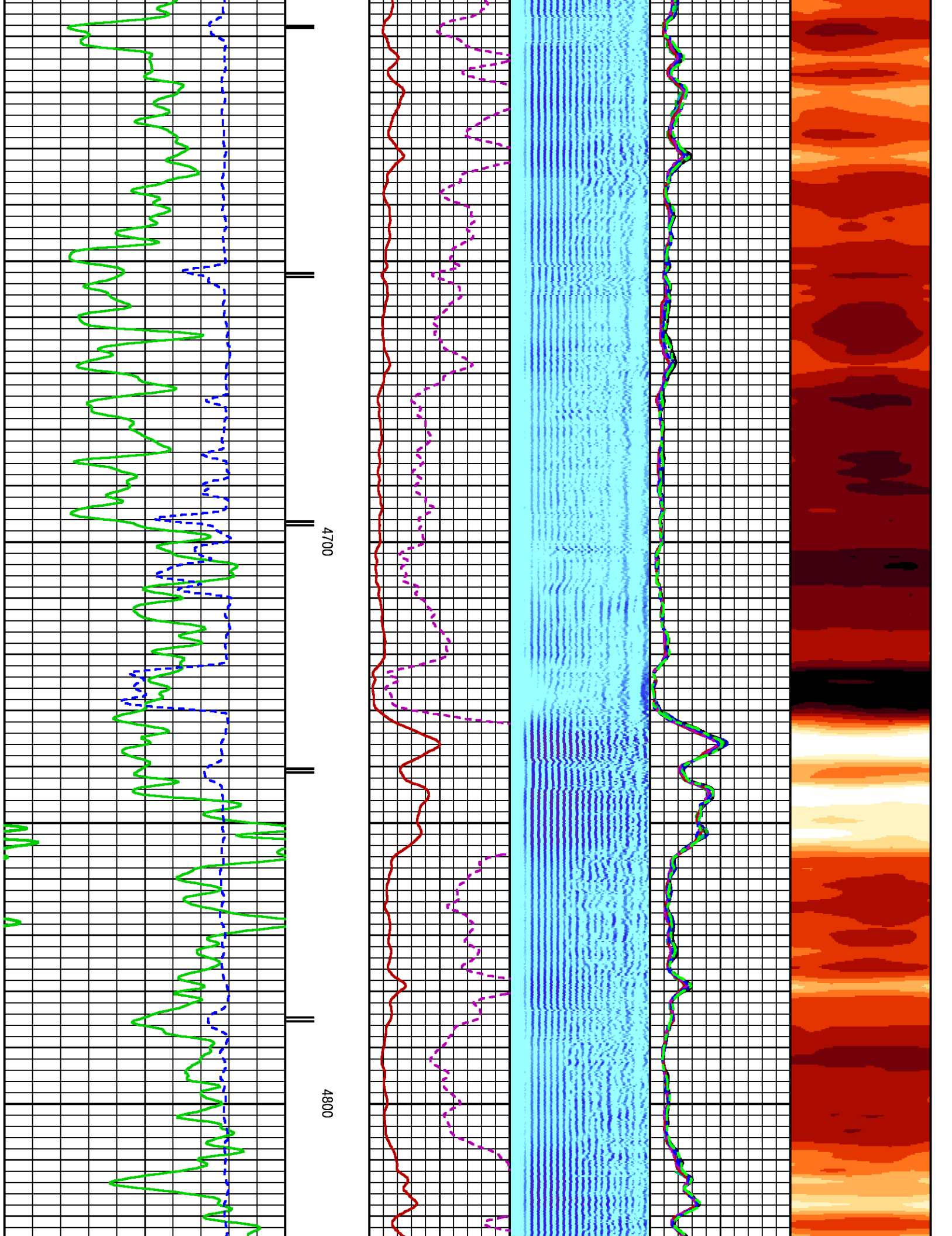


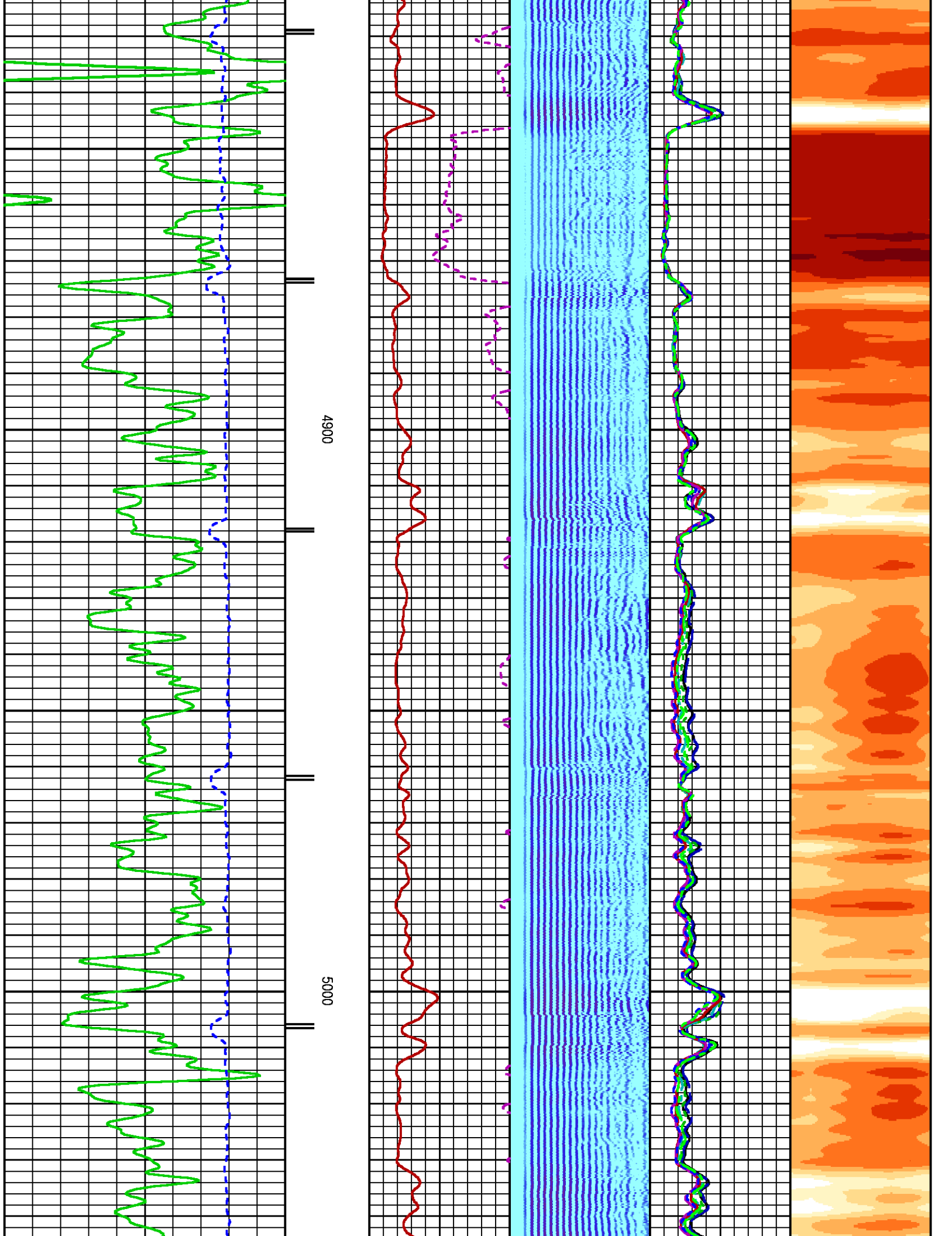
4200

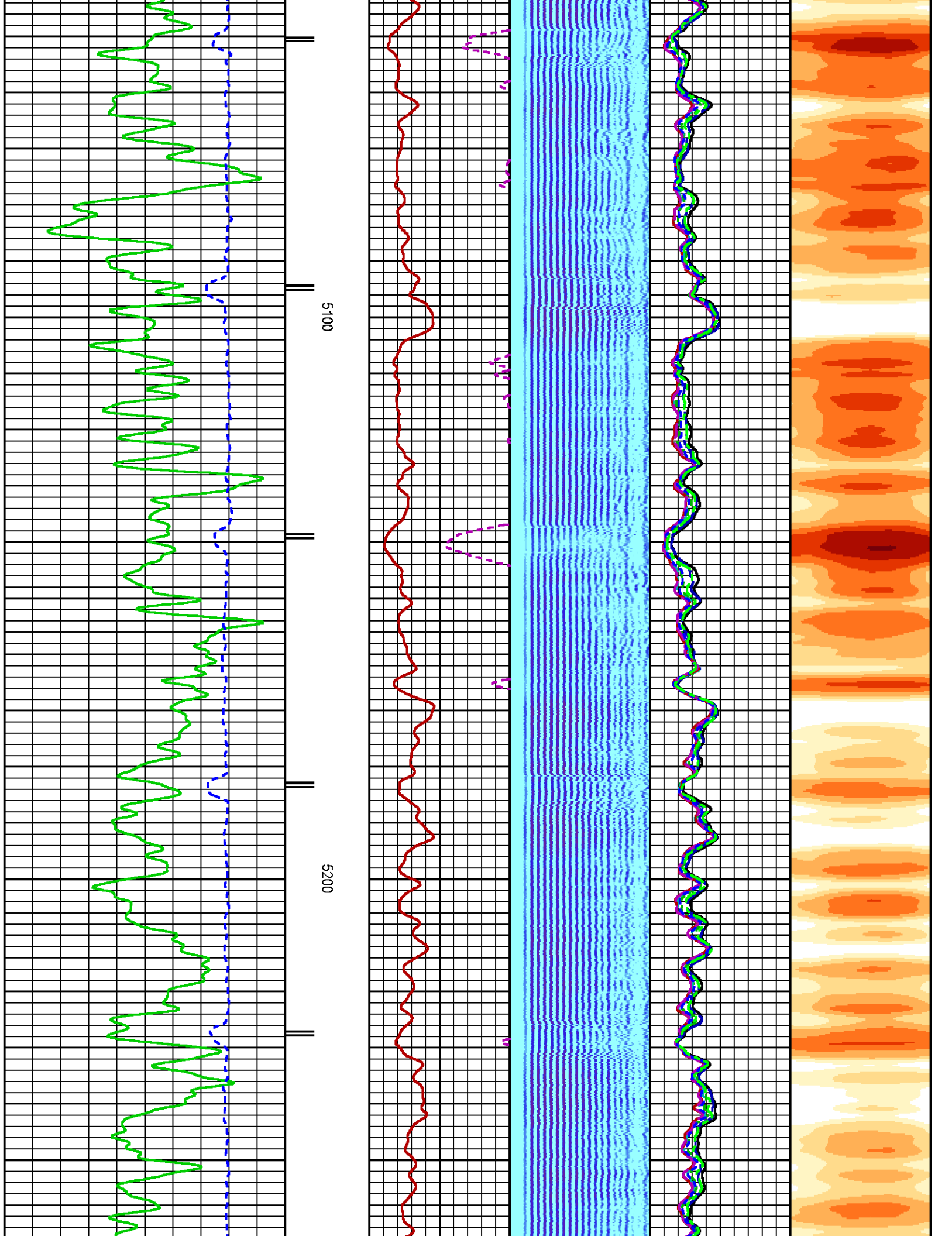
4300

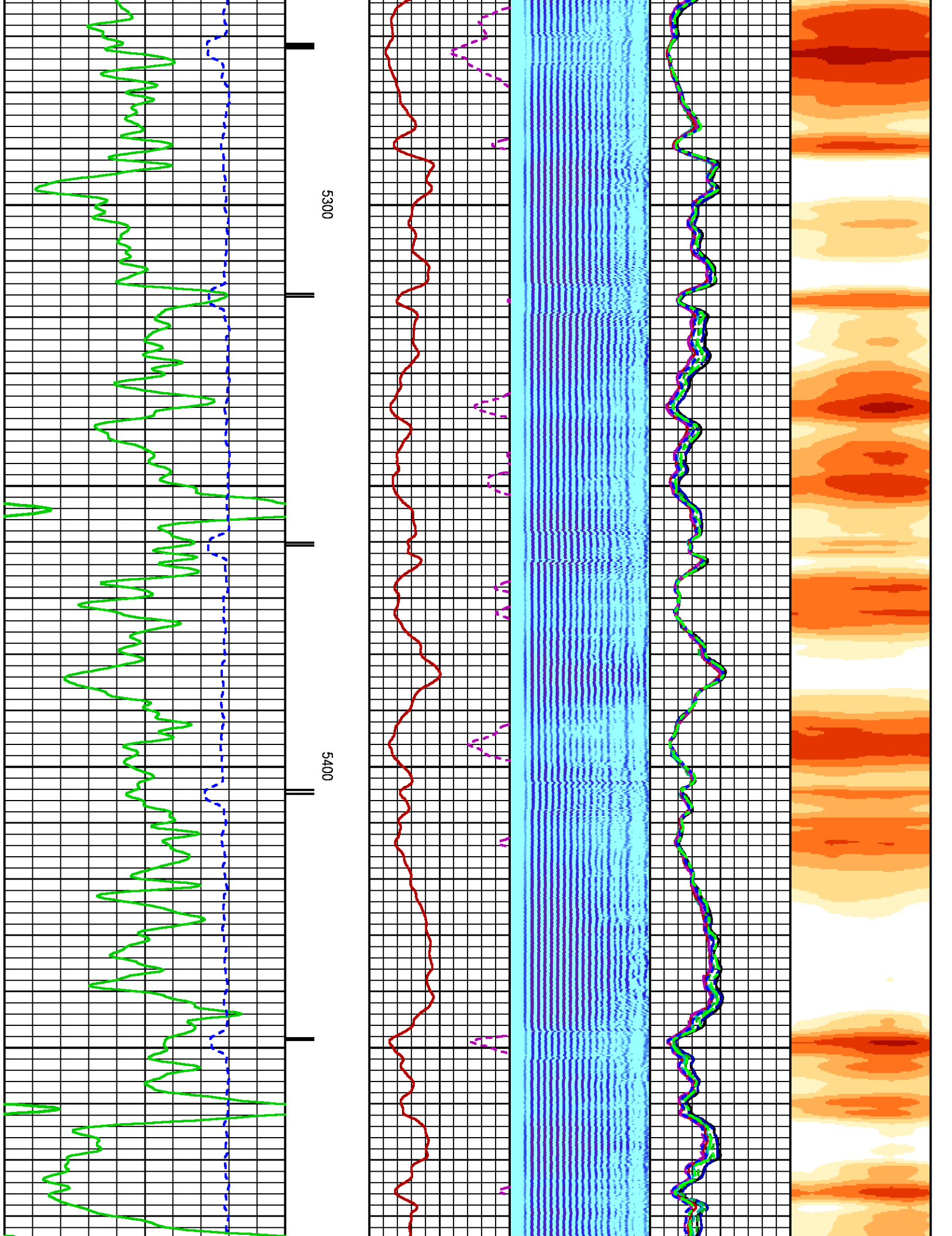


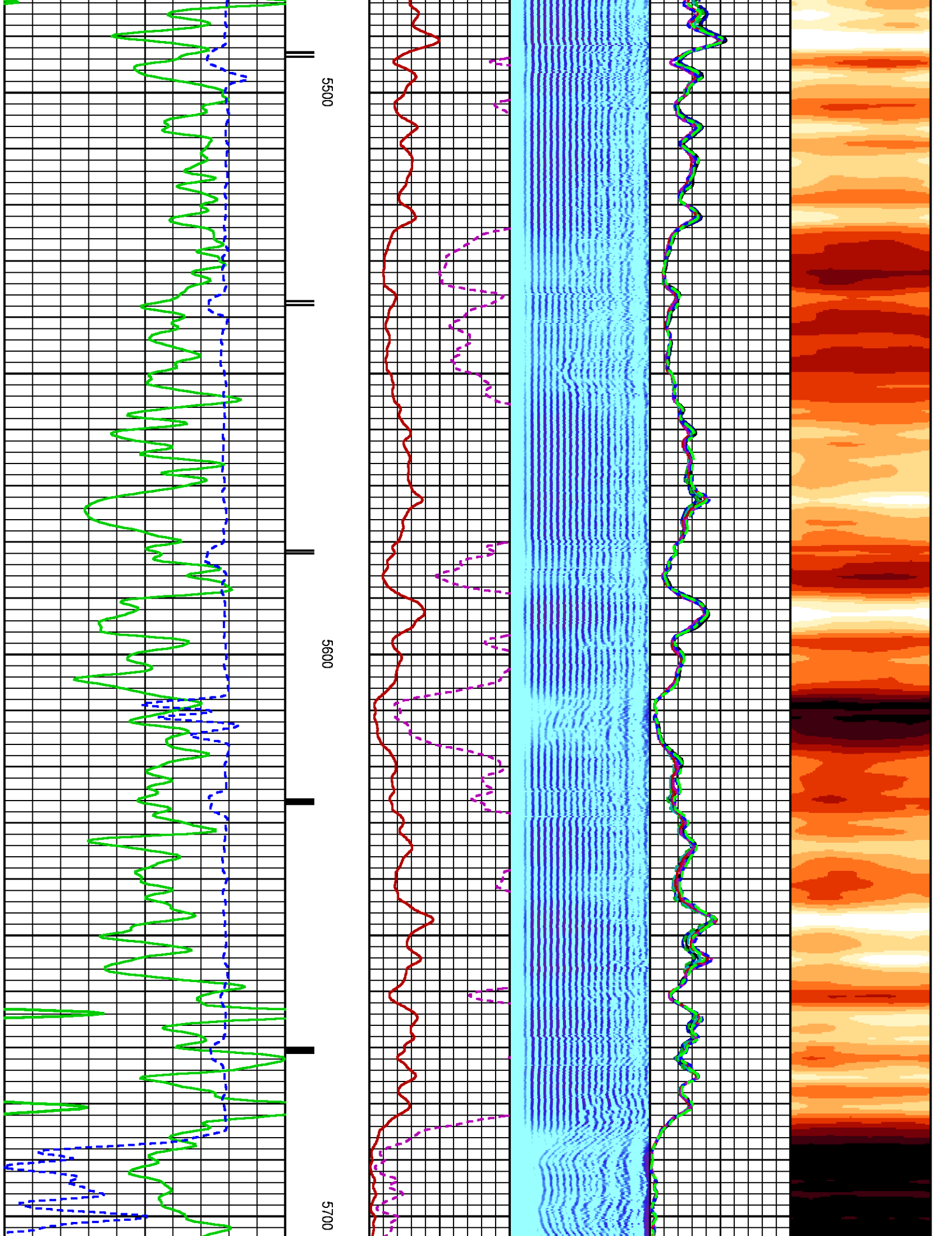


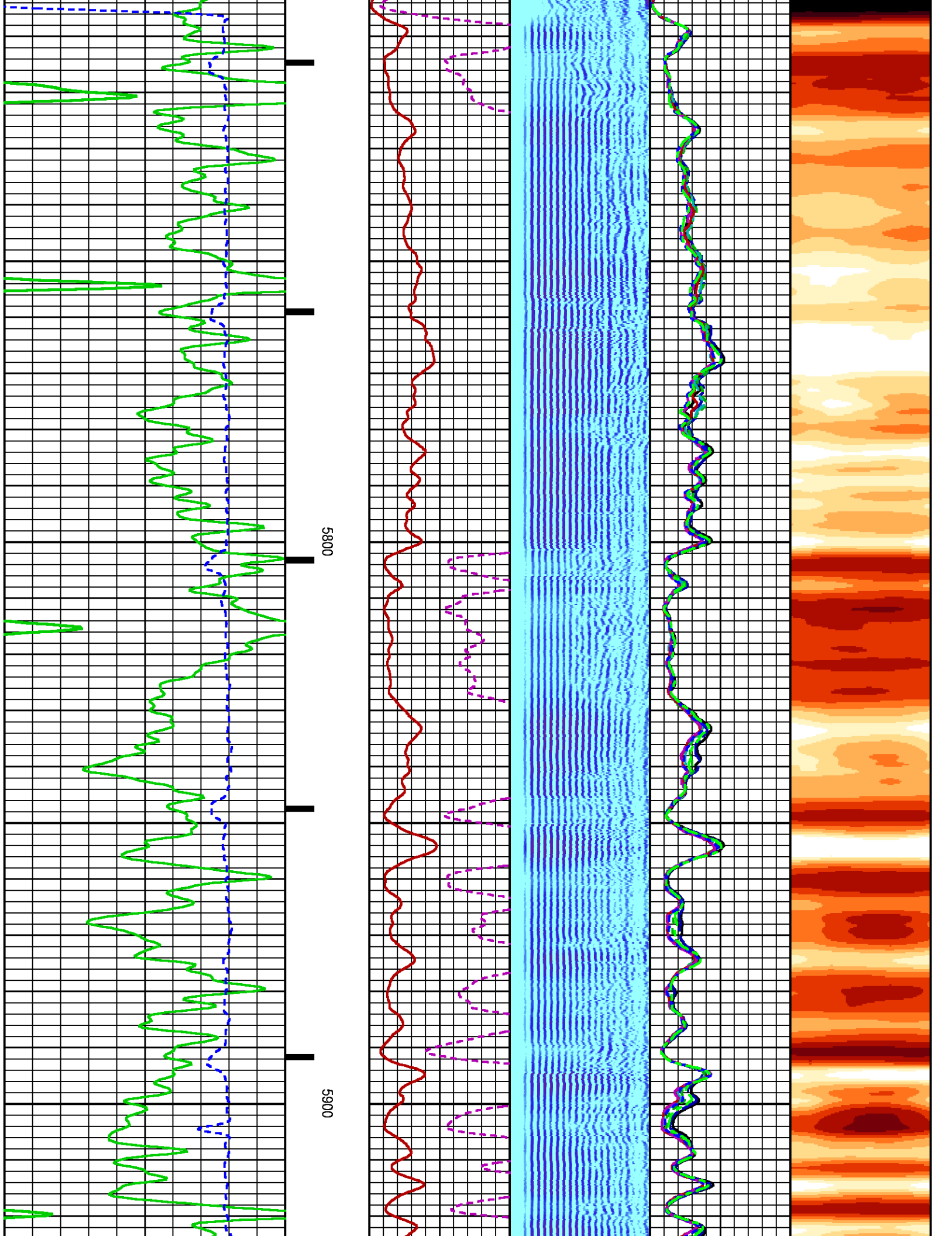


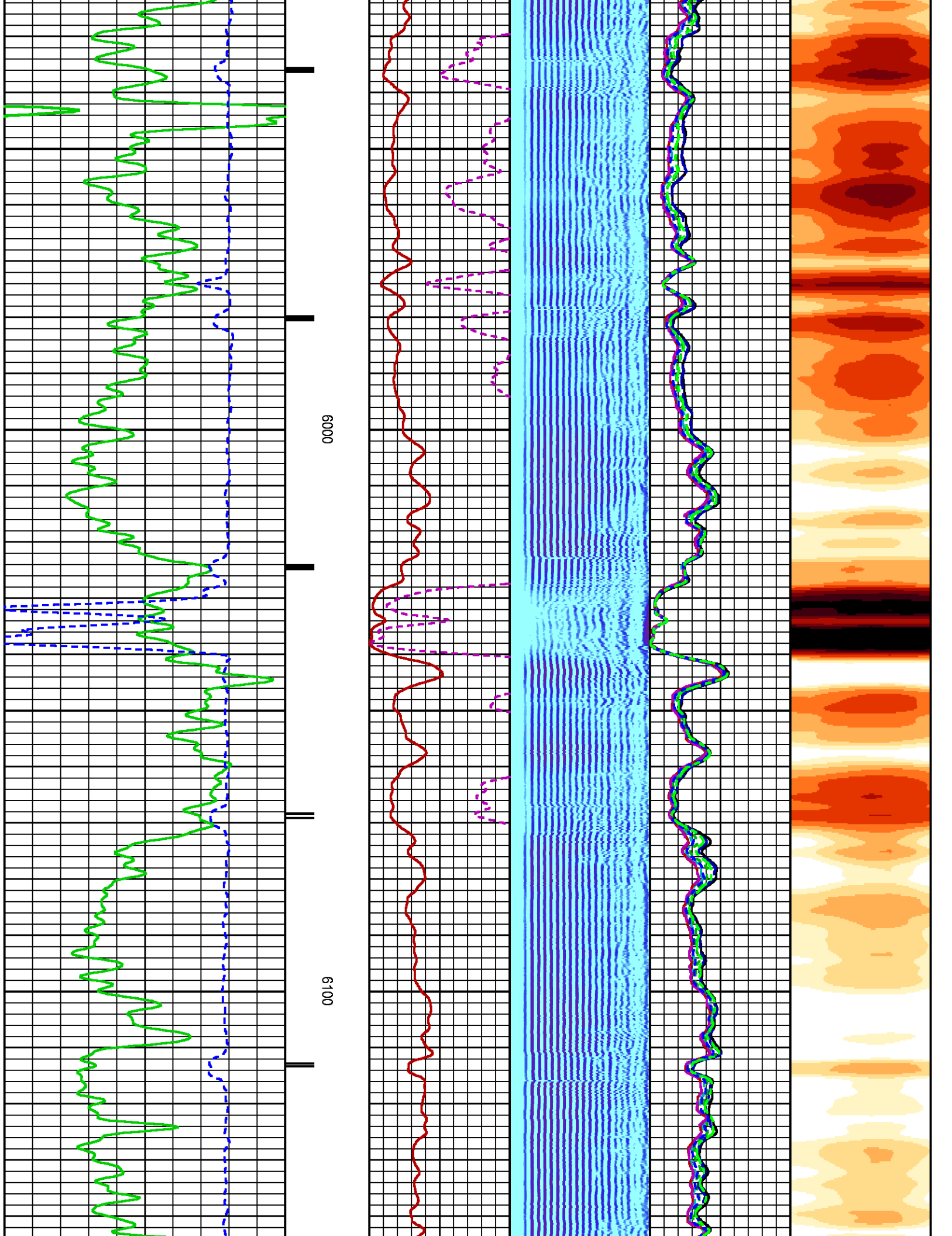


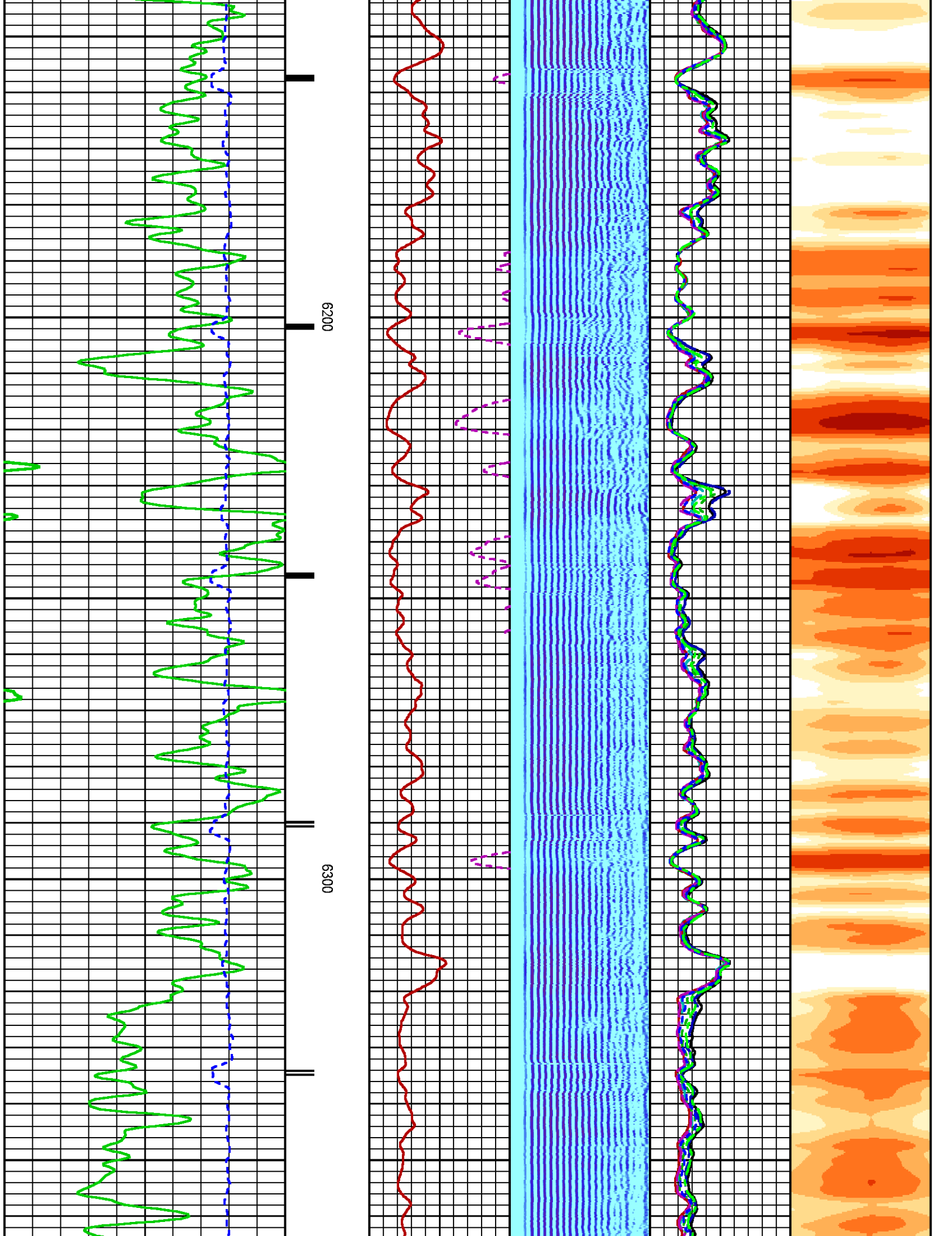


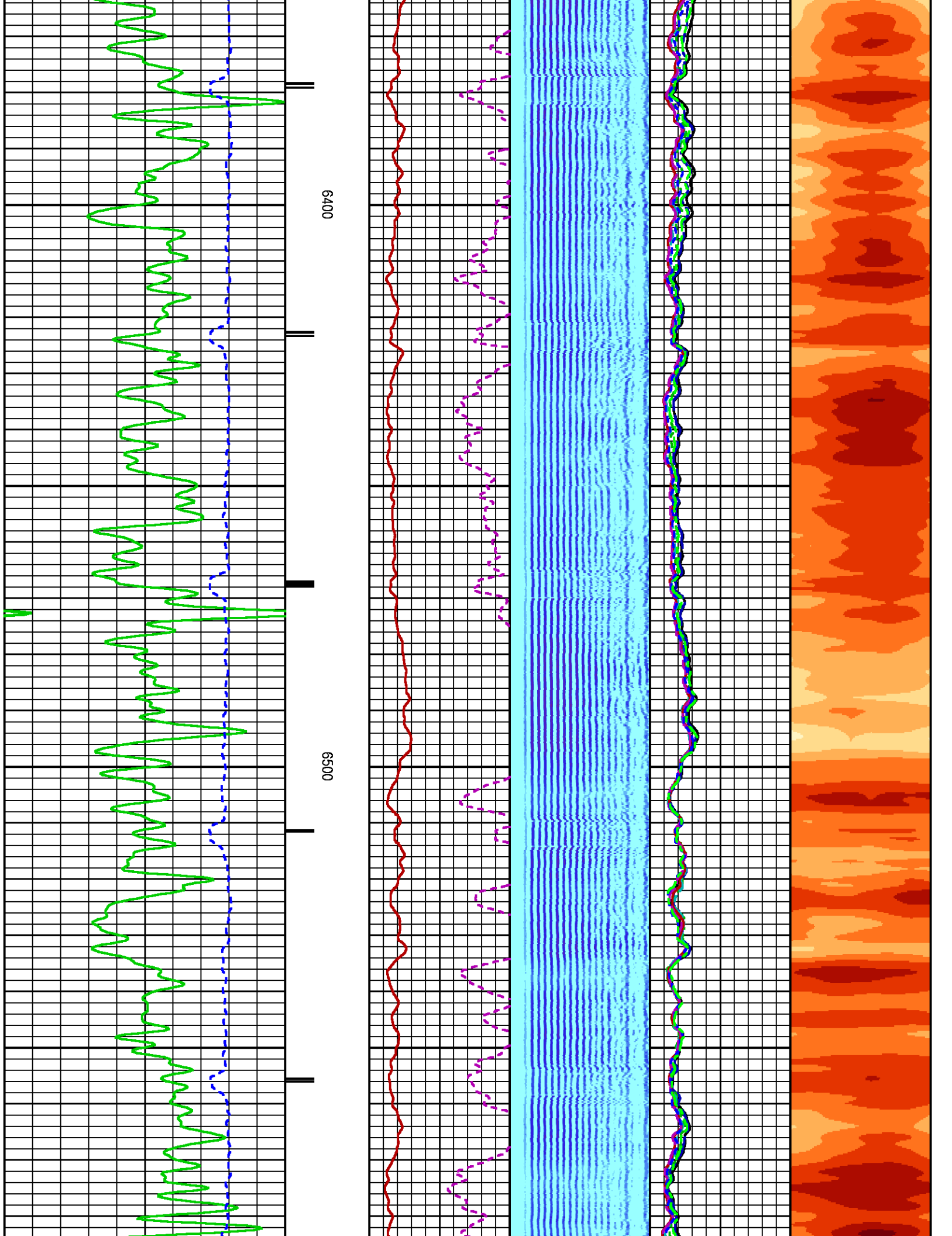


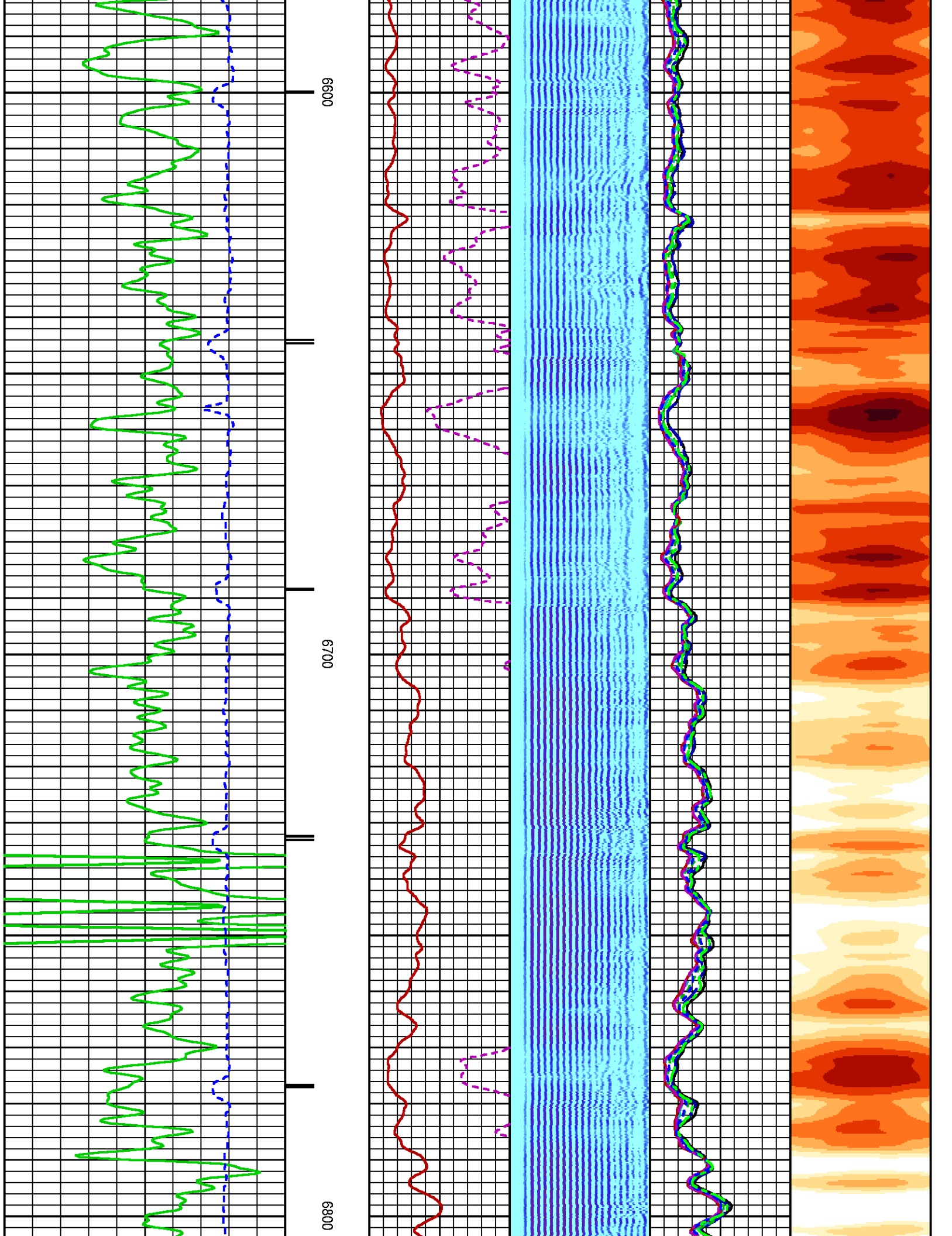


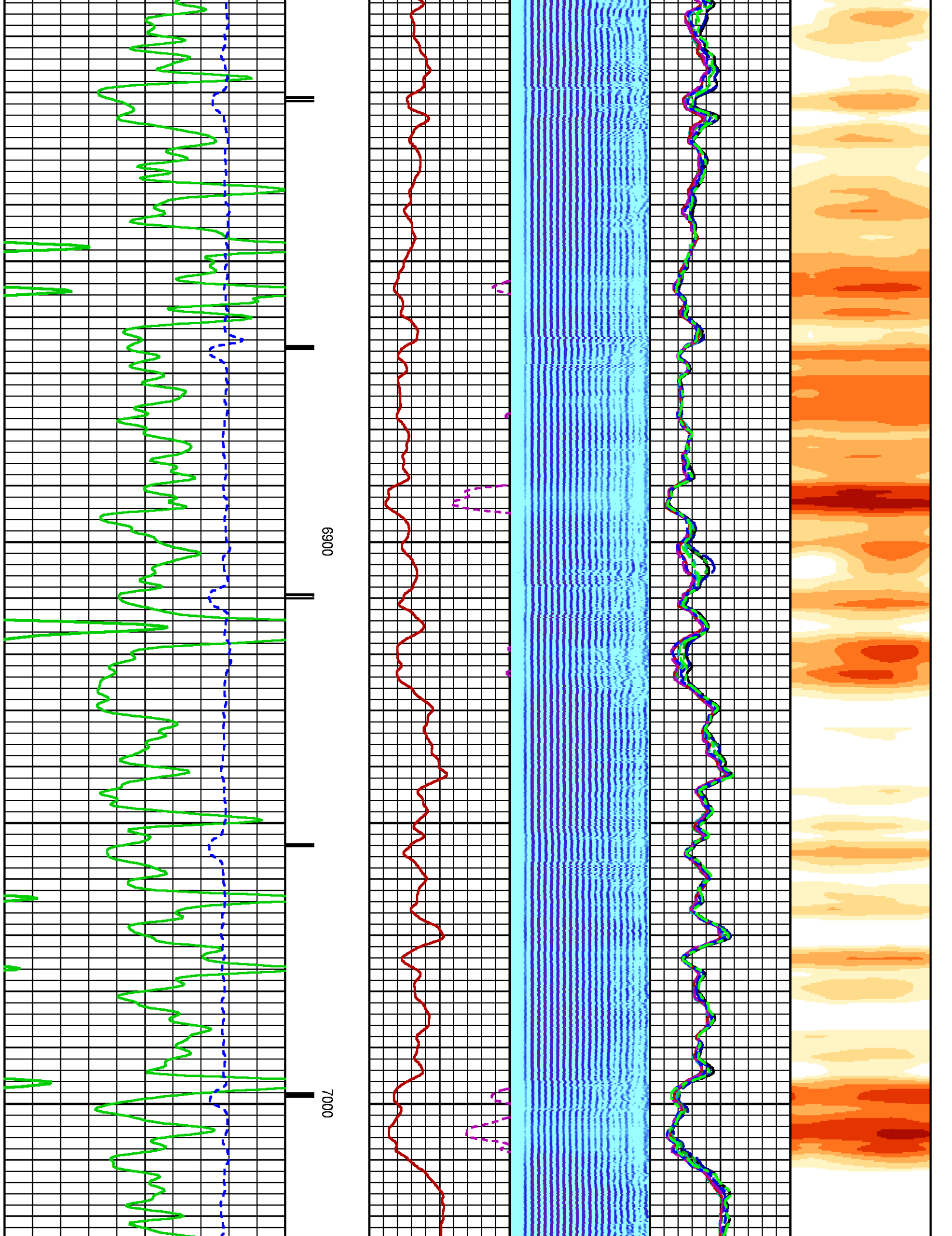


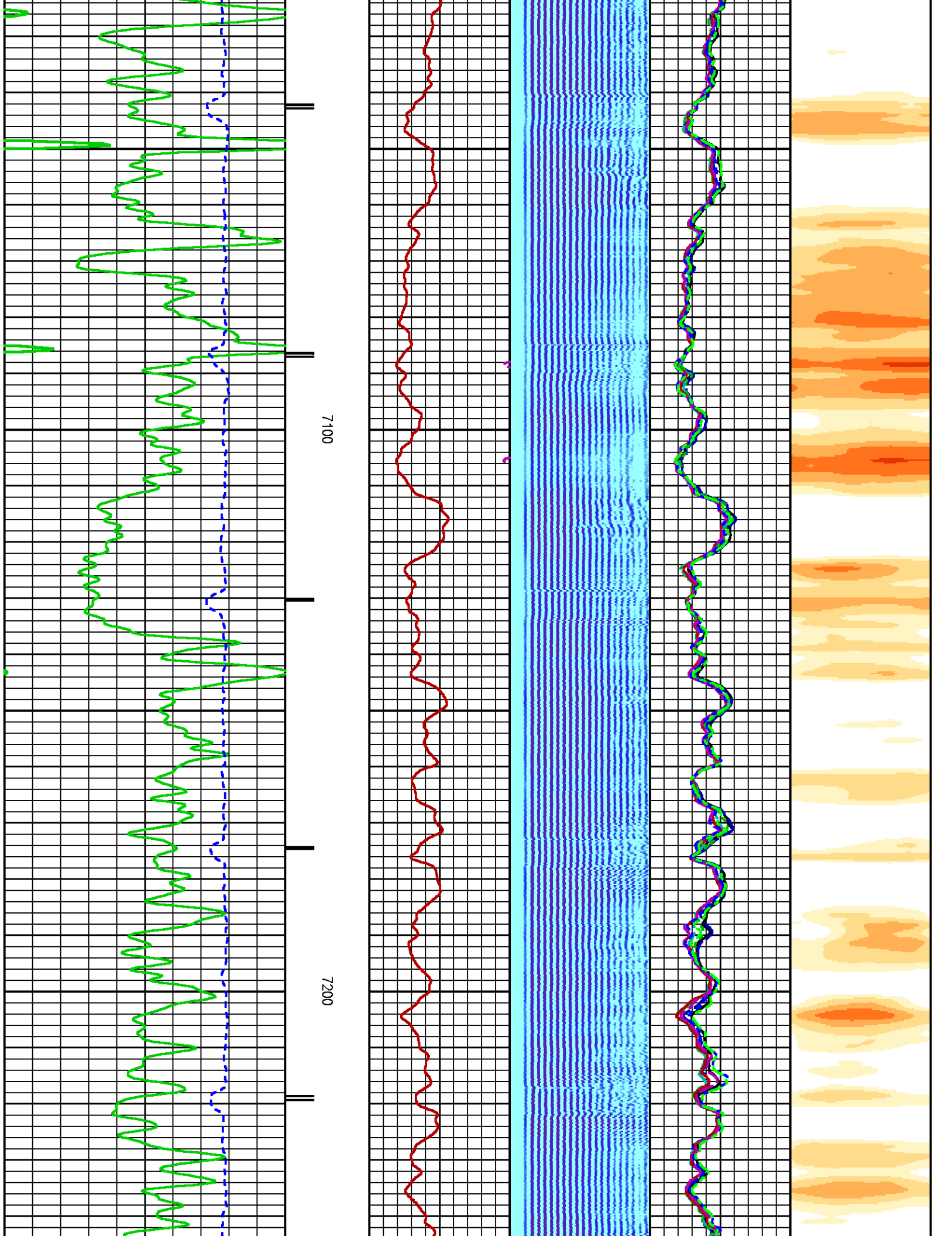


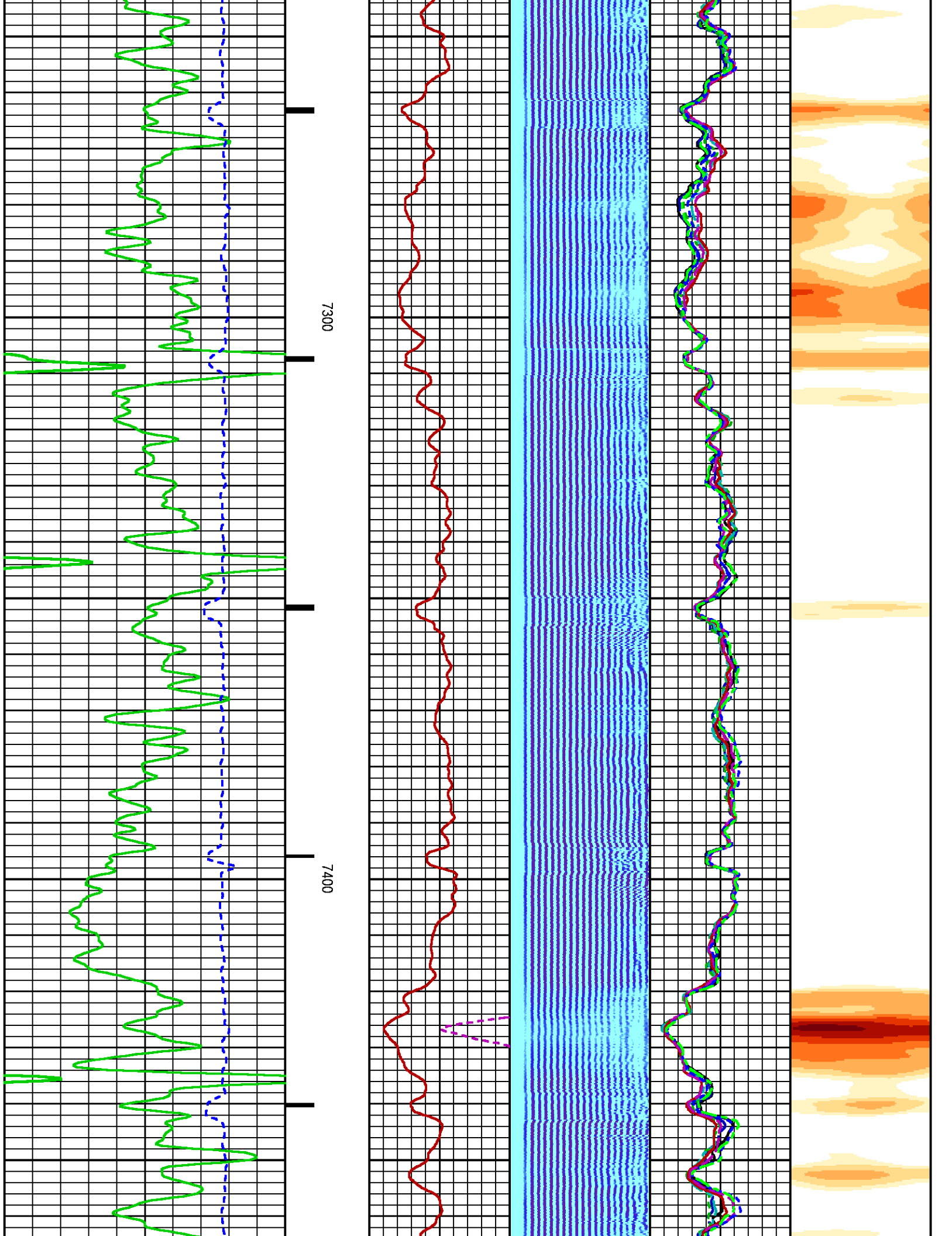


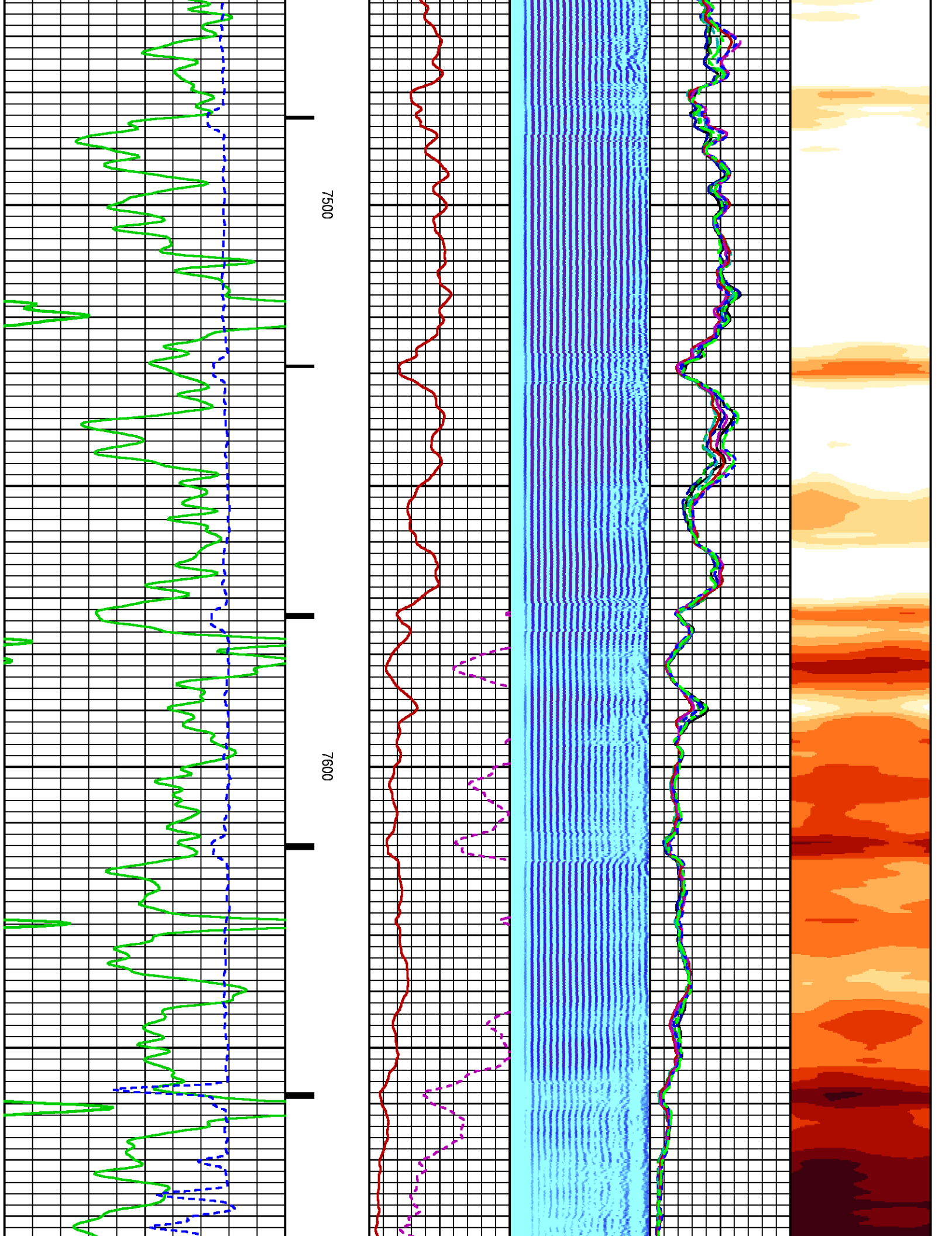


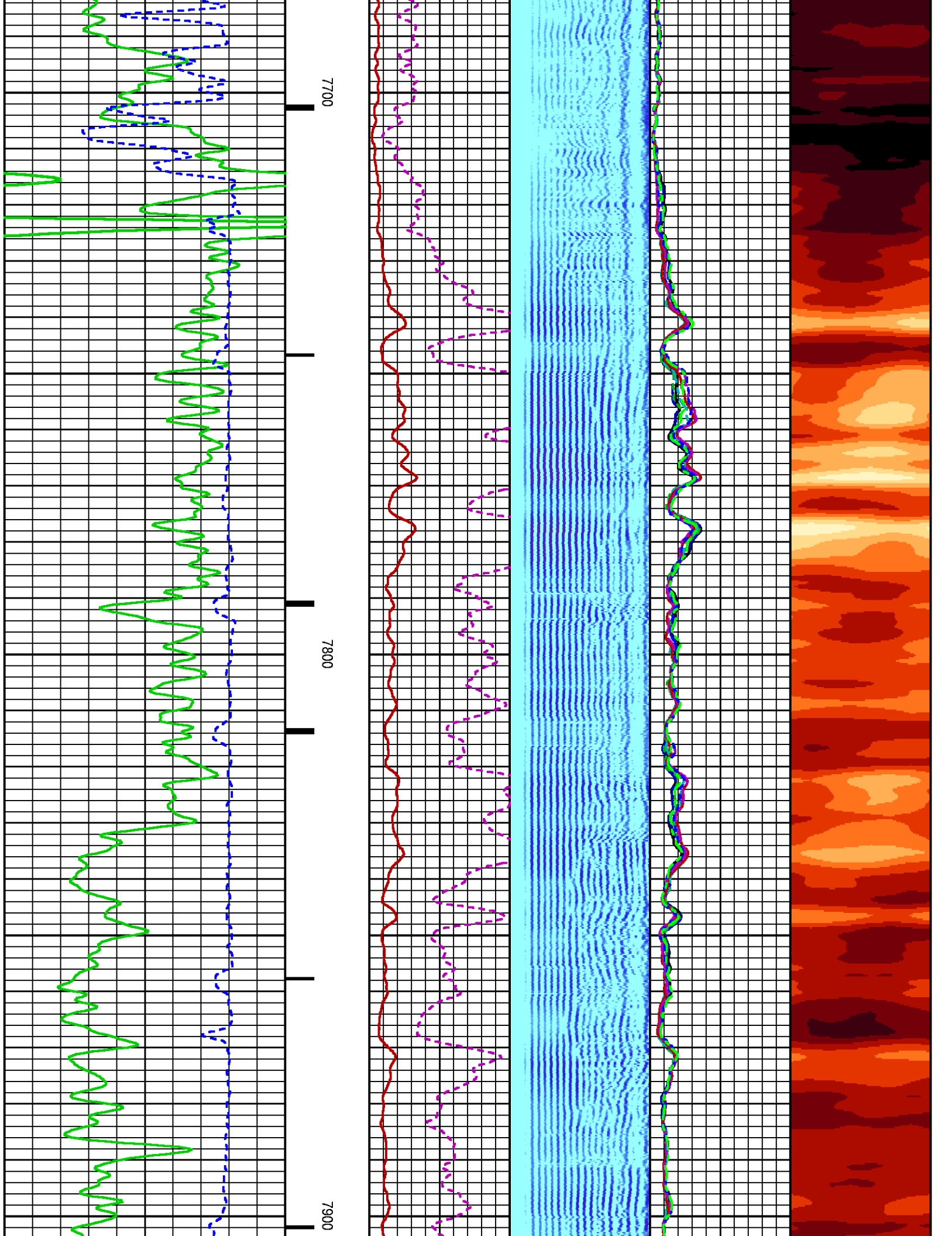


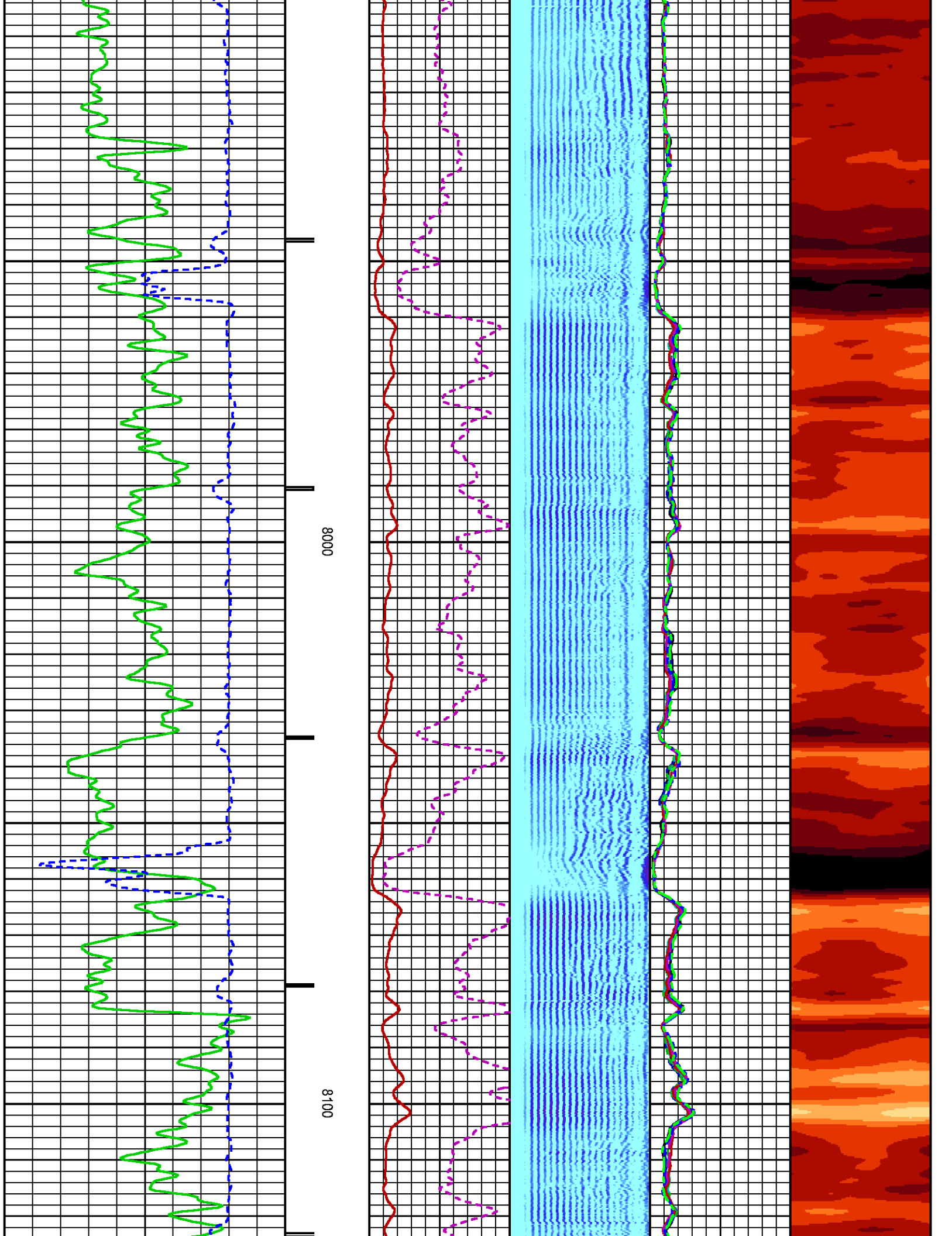


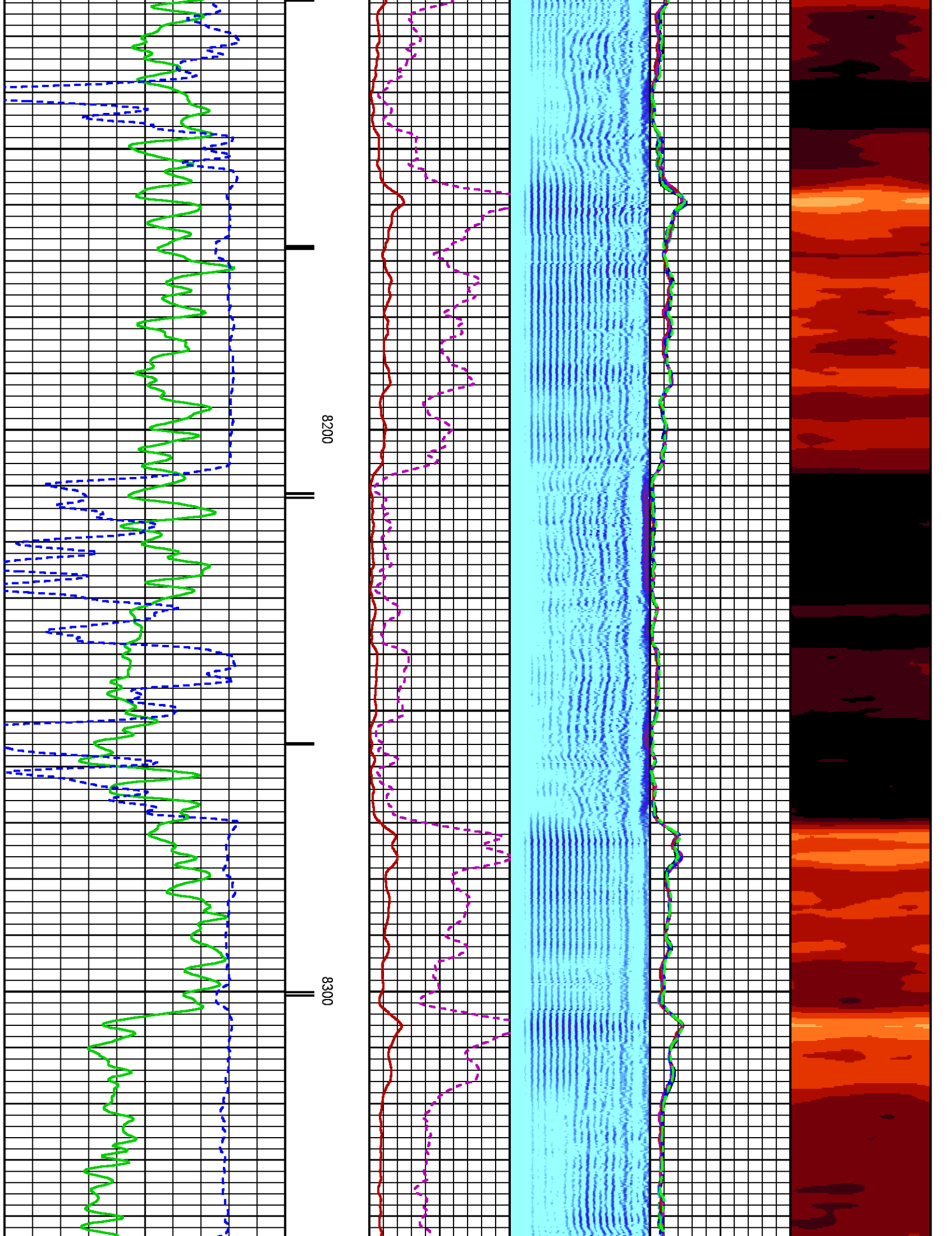


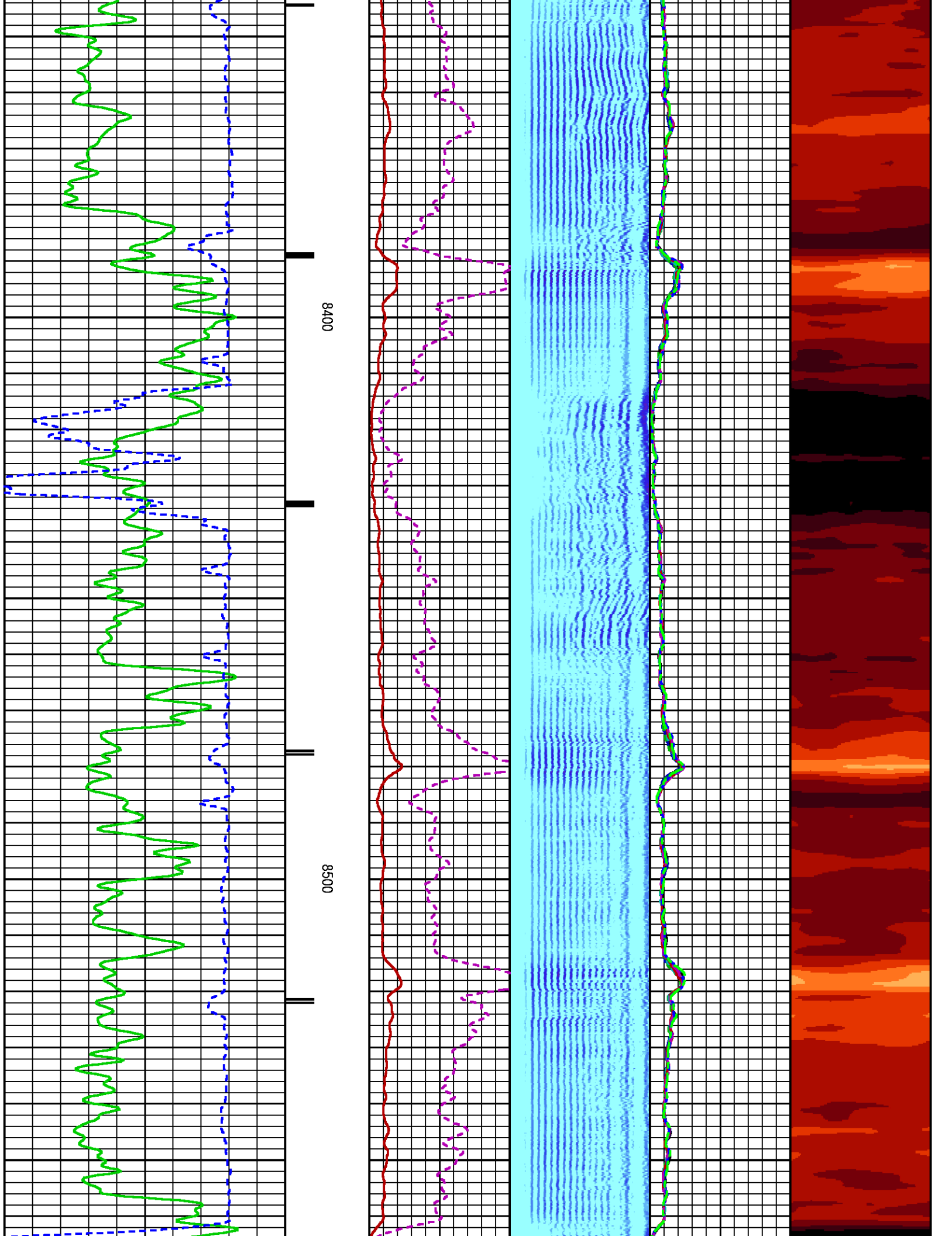


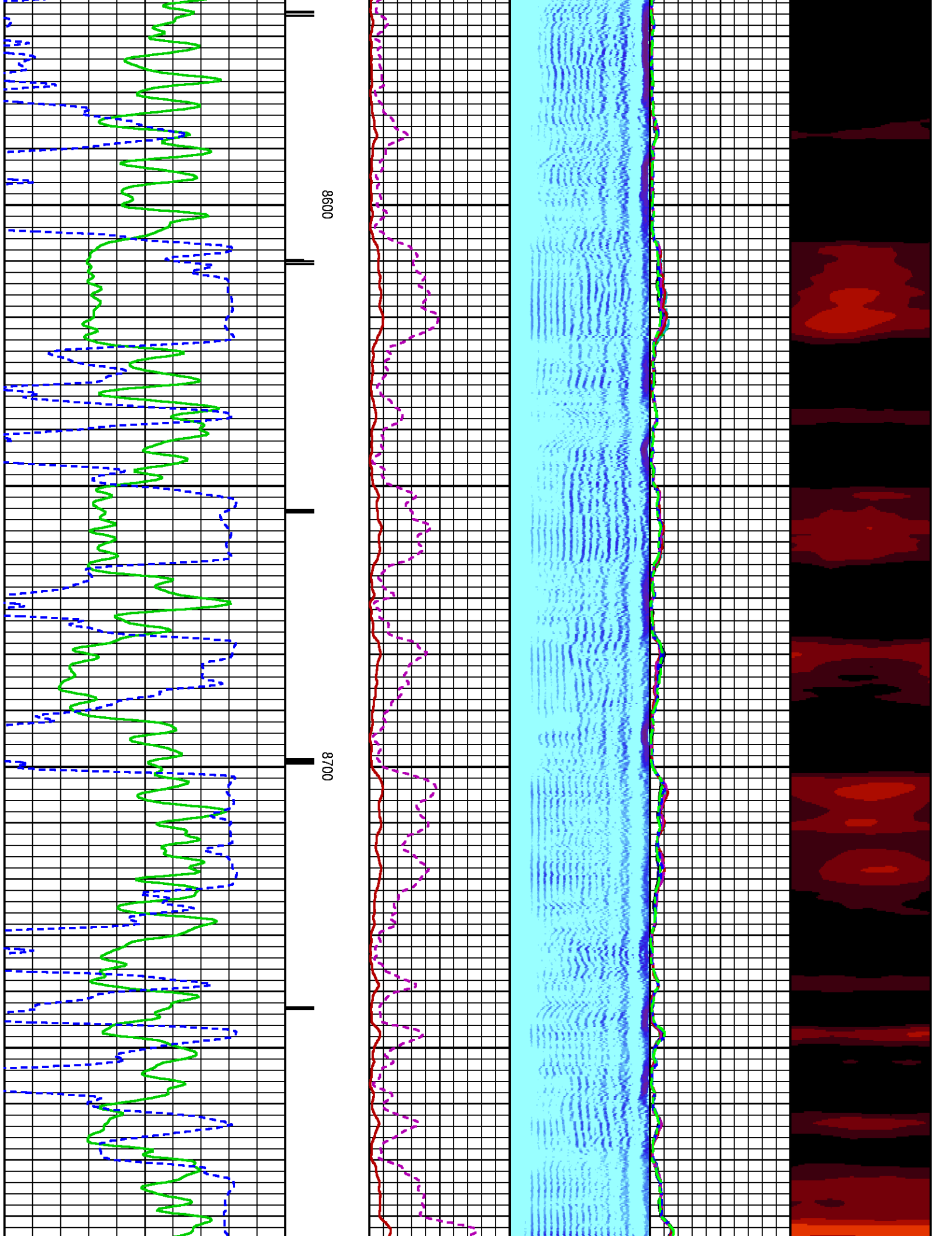


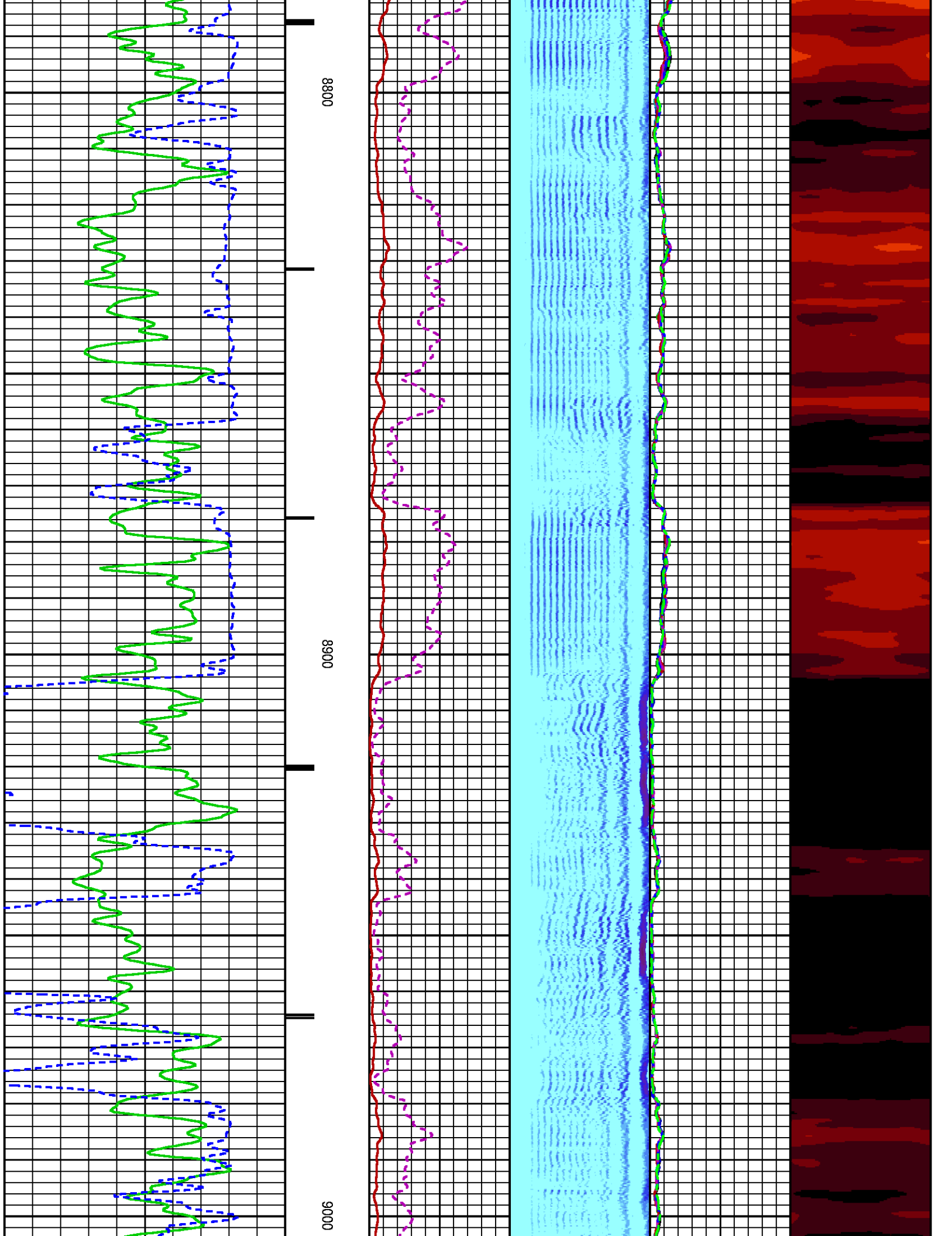


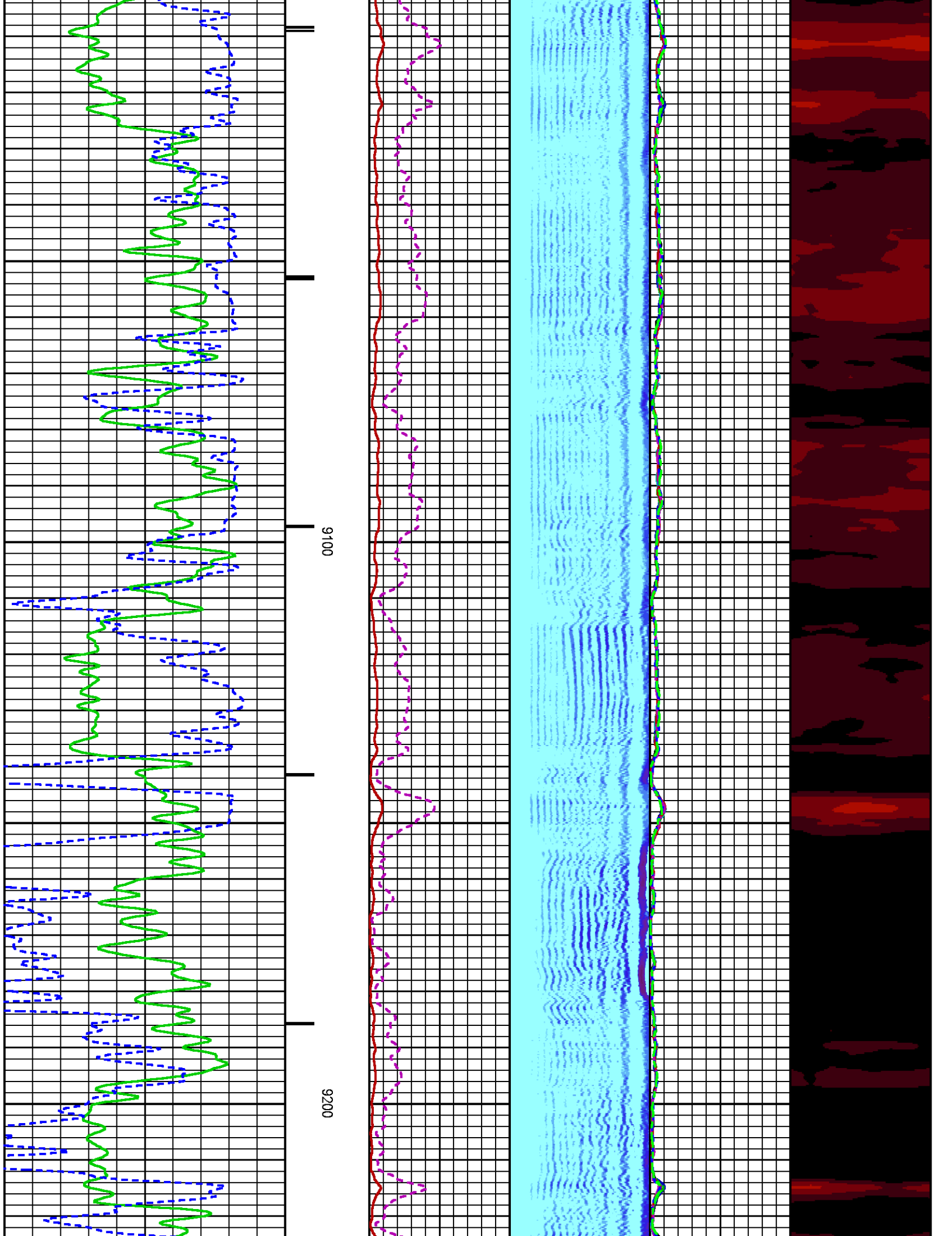


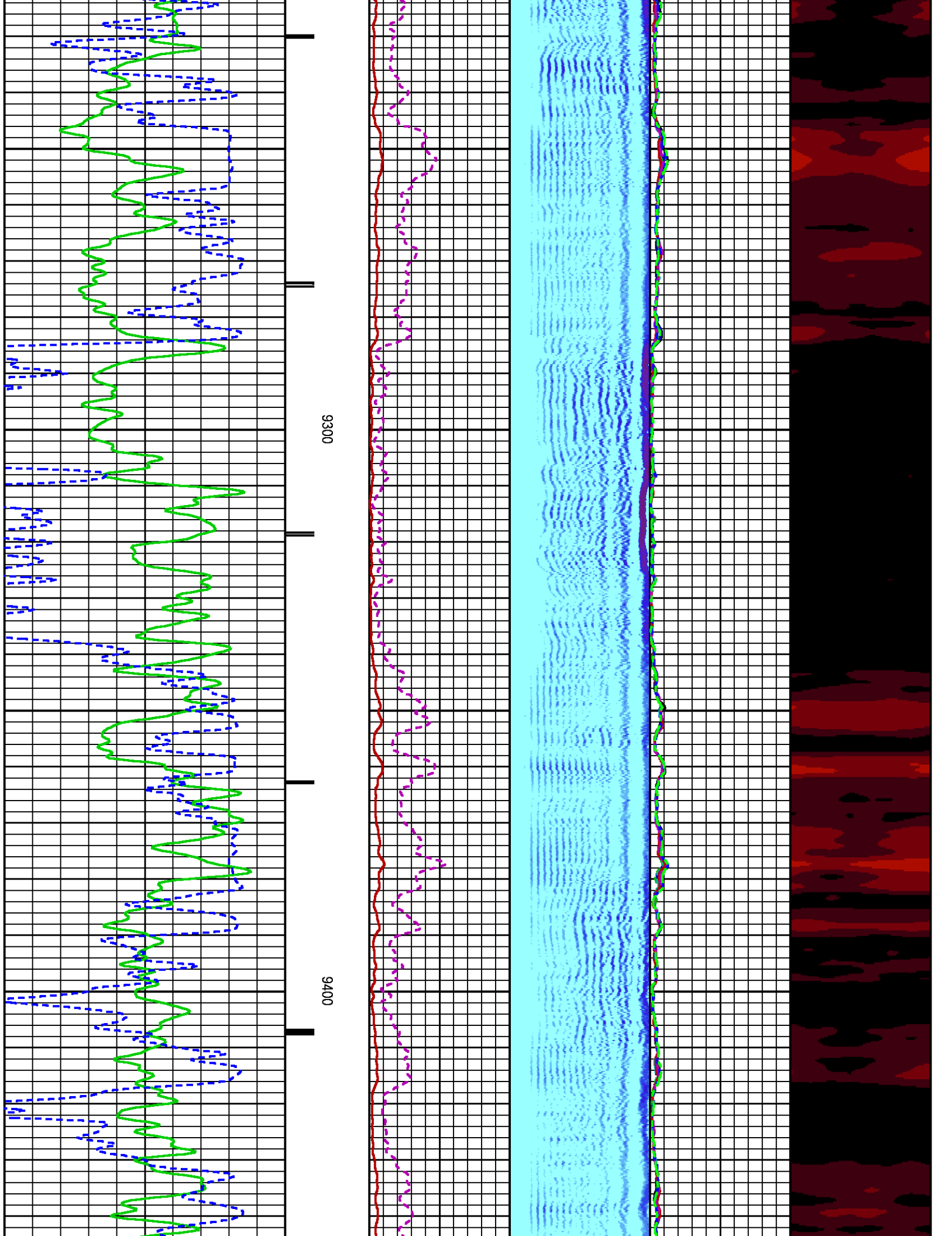


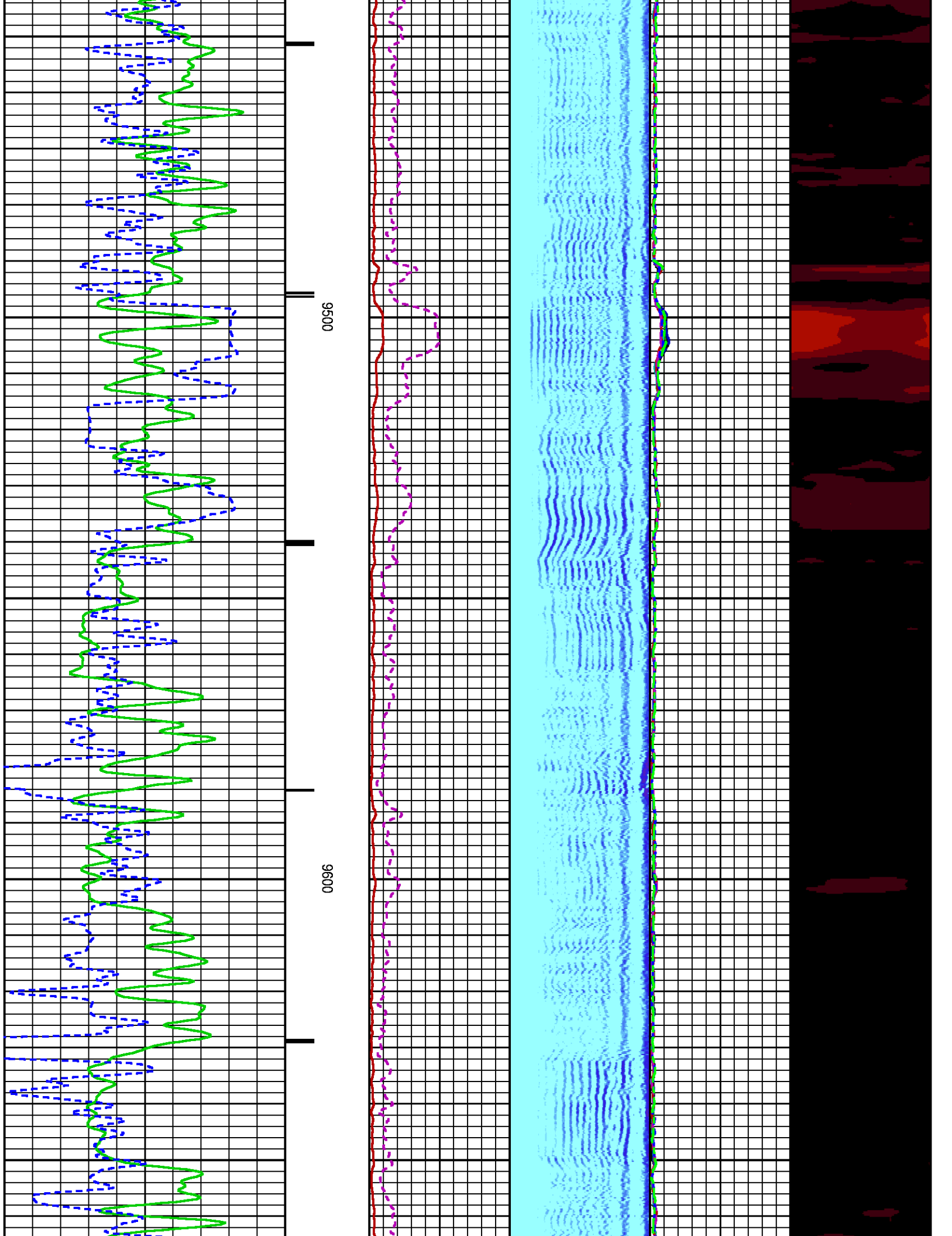


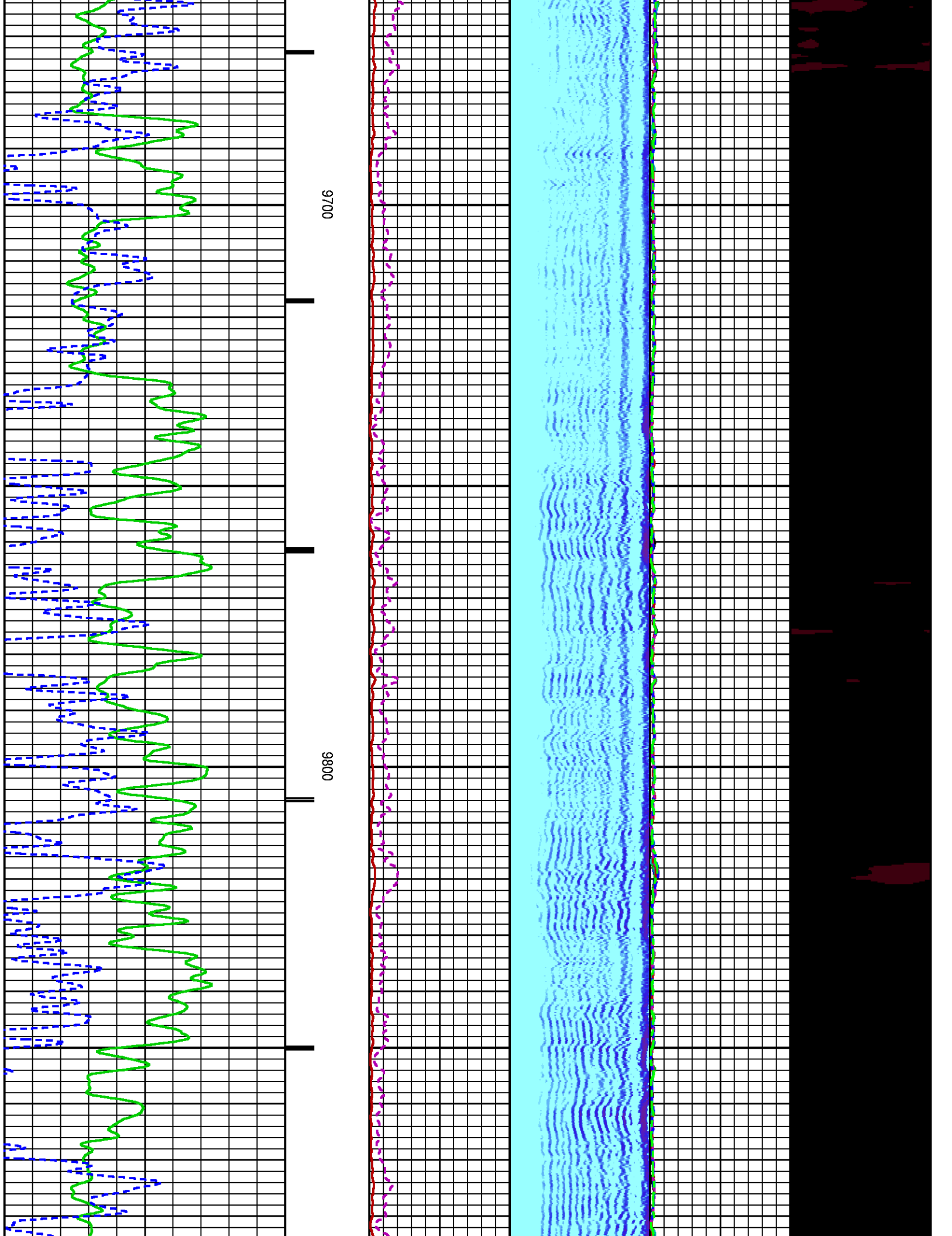


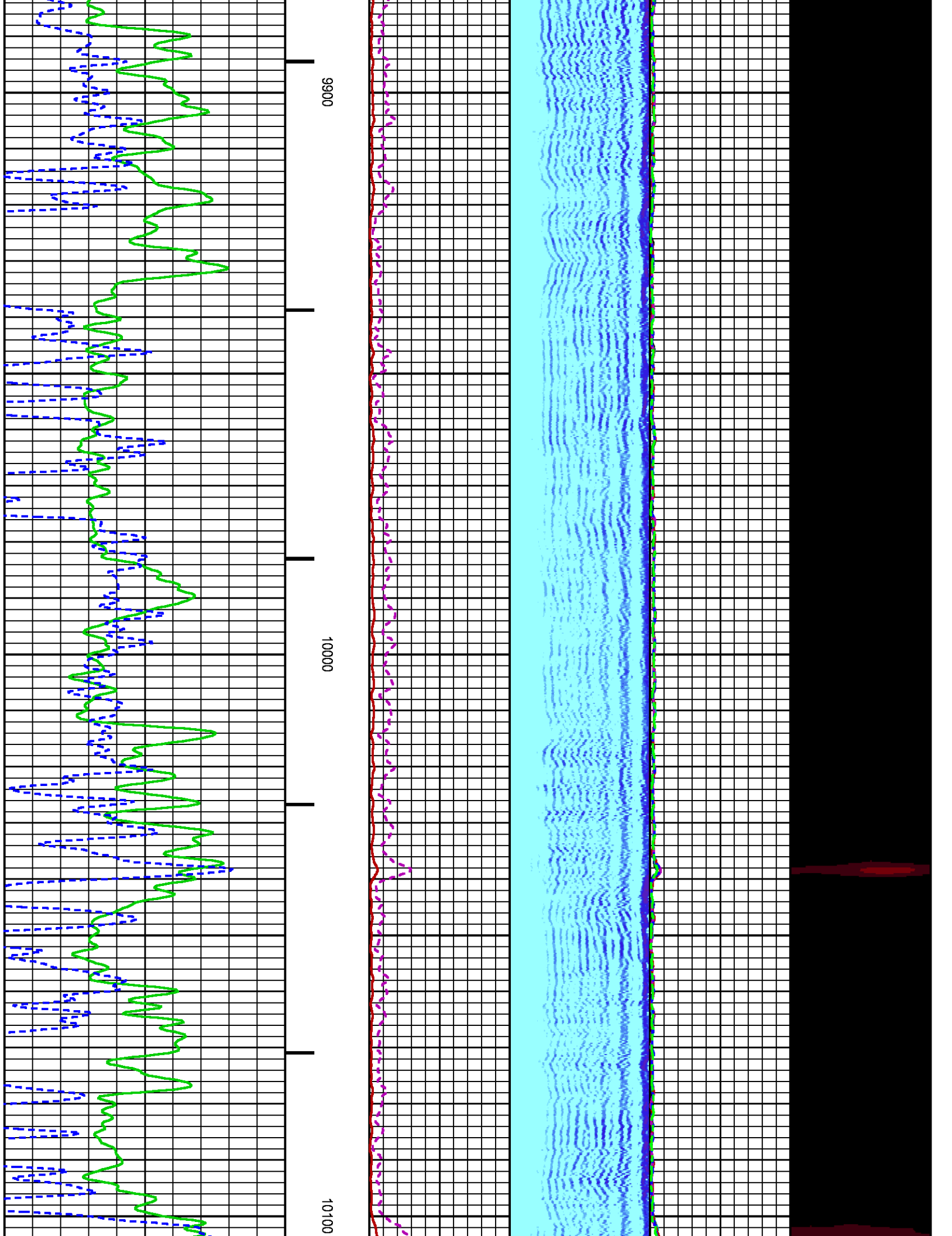


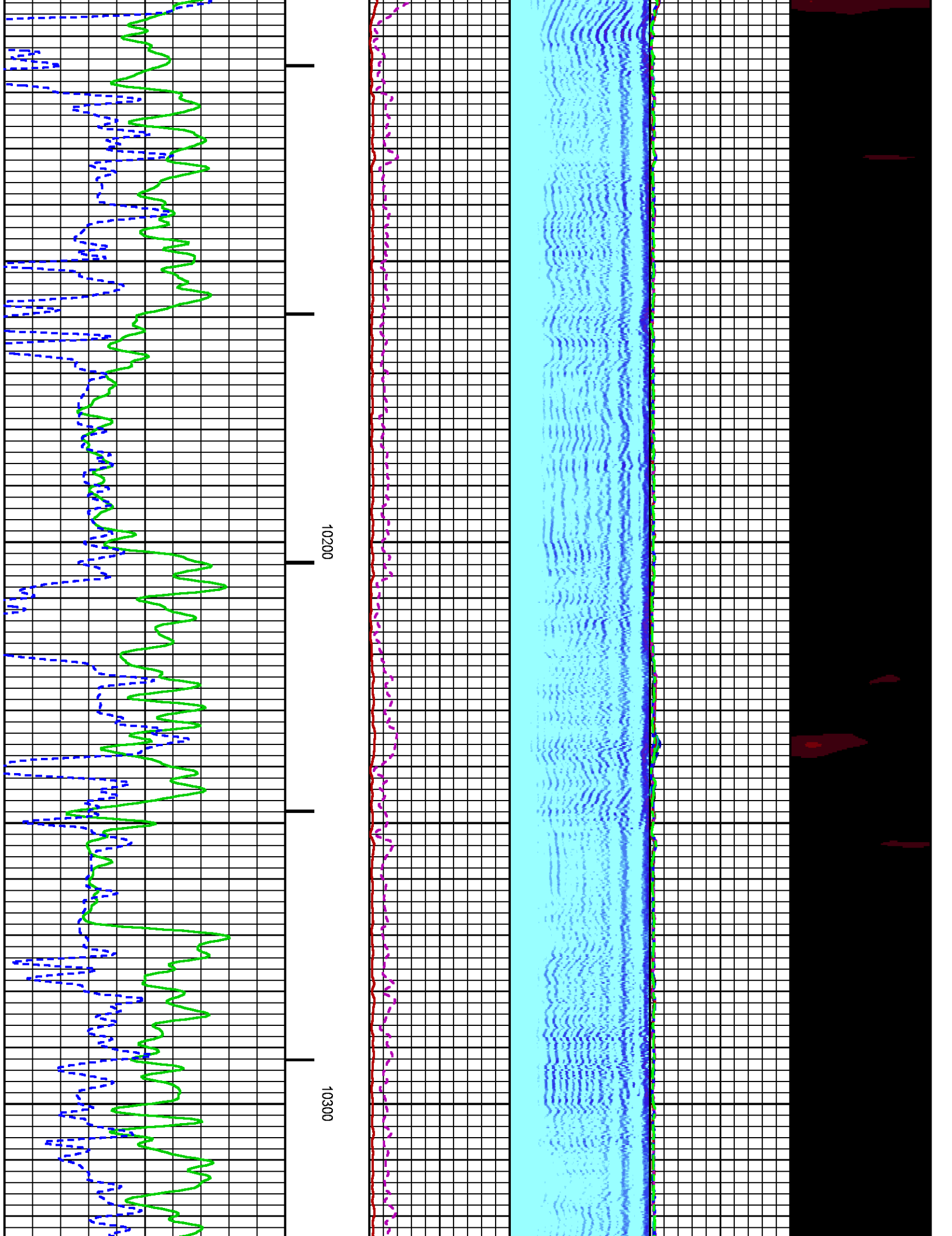


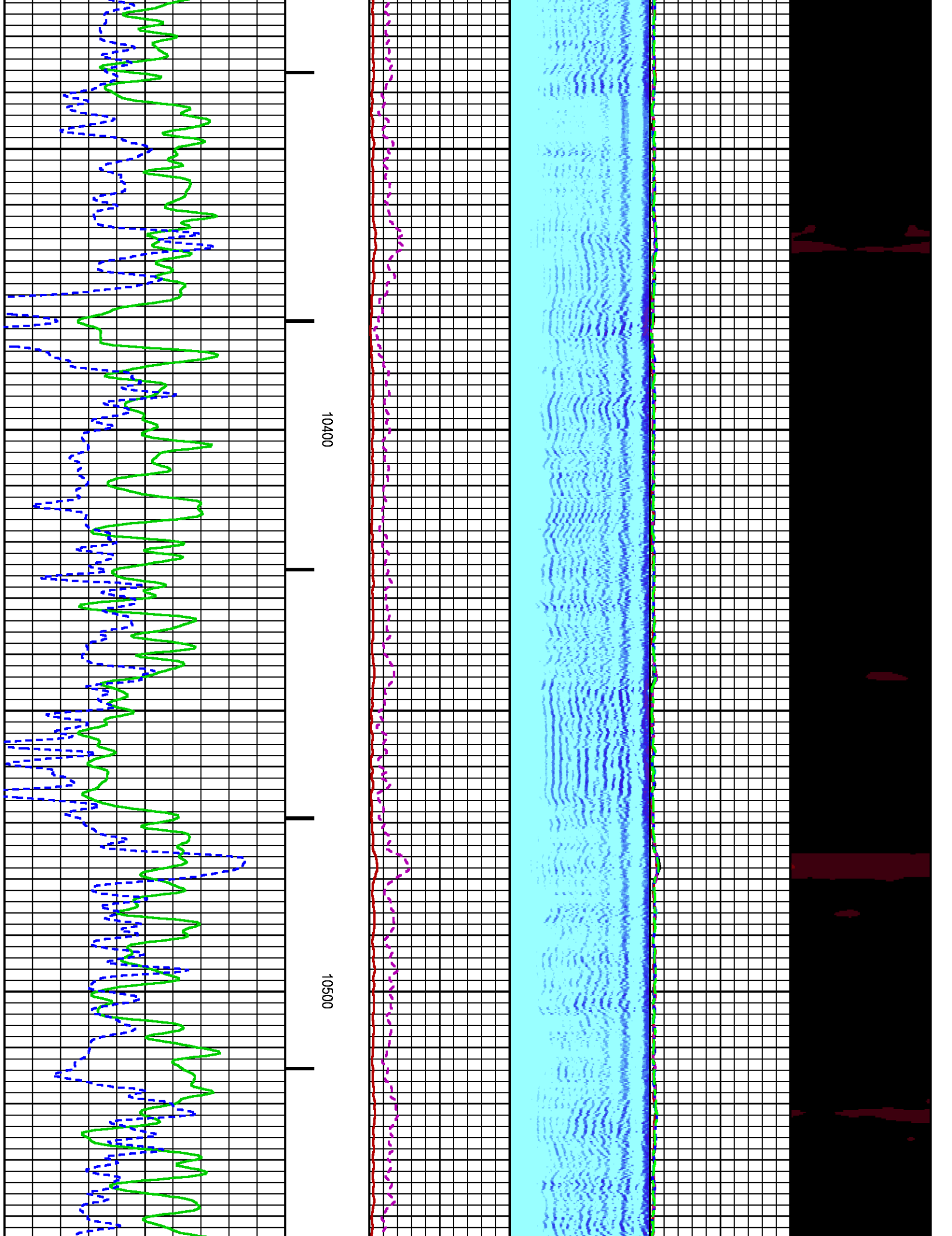


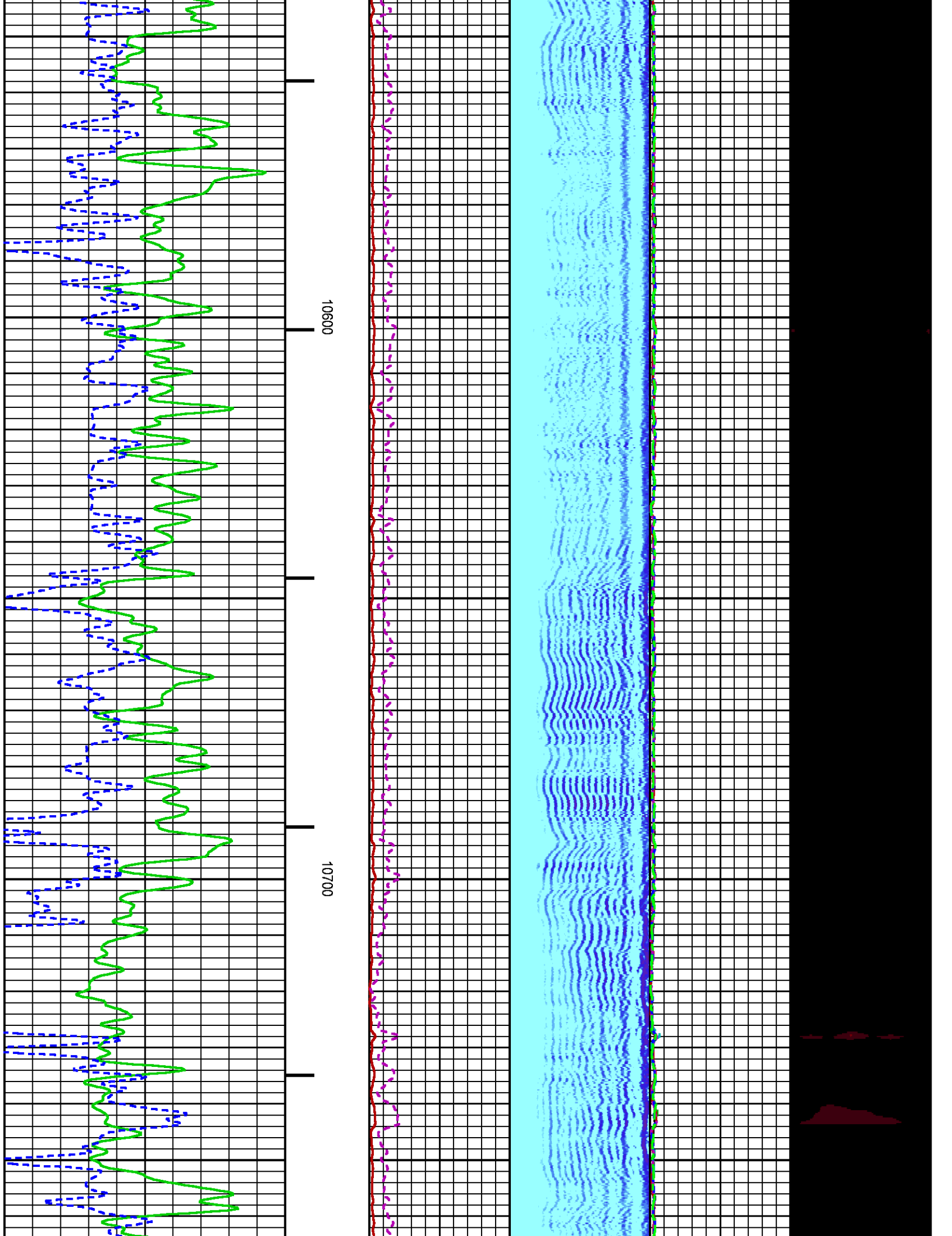


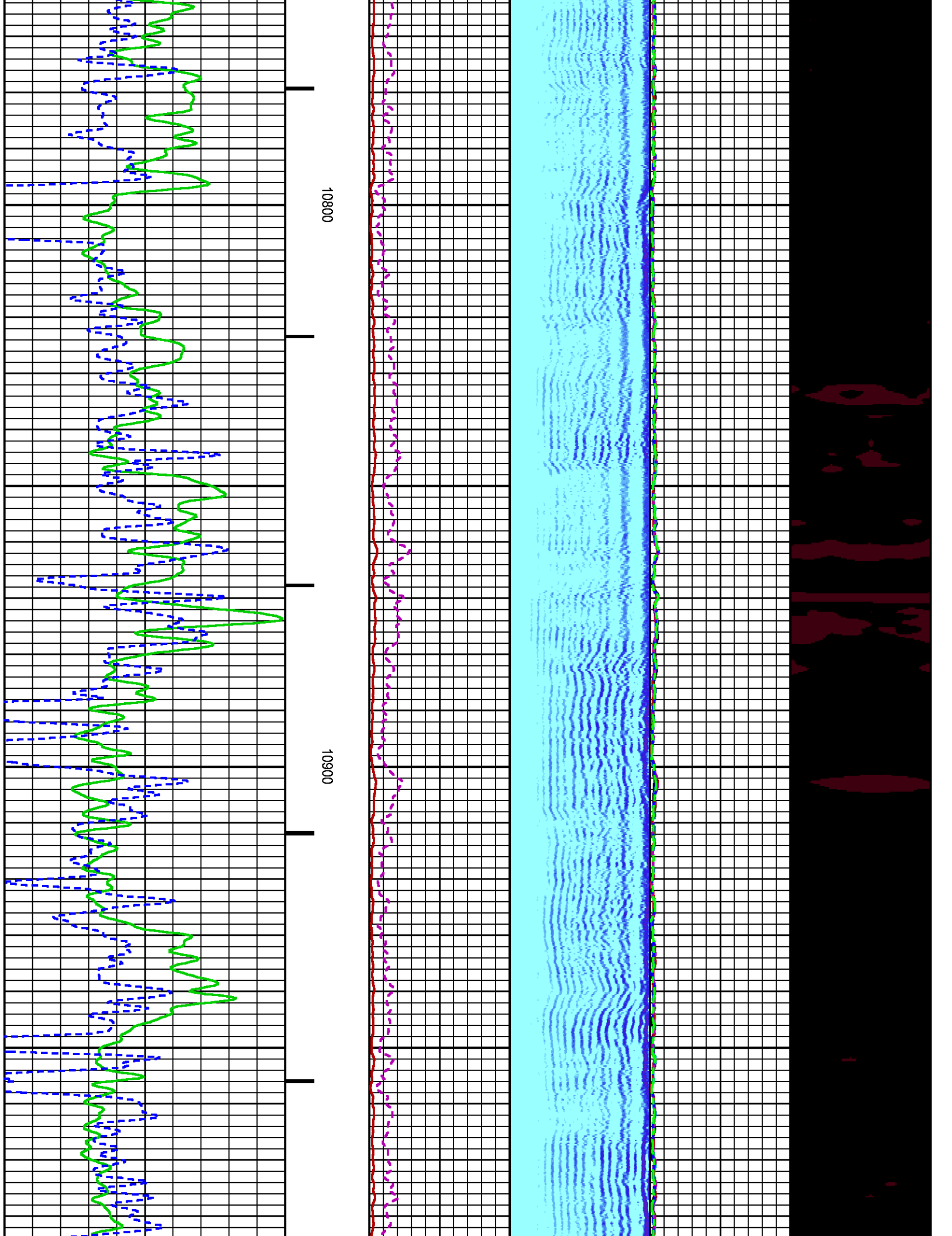


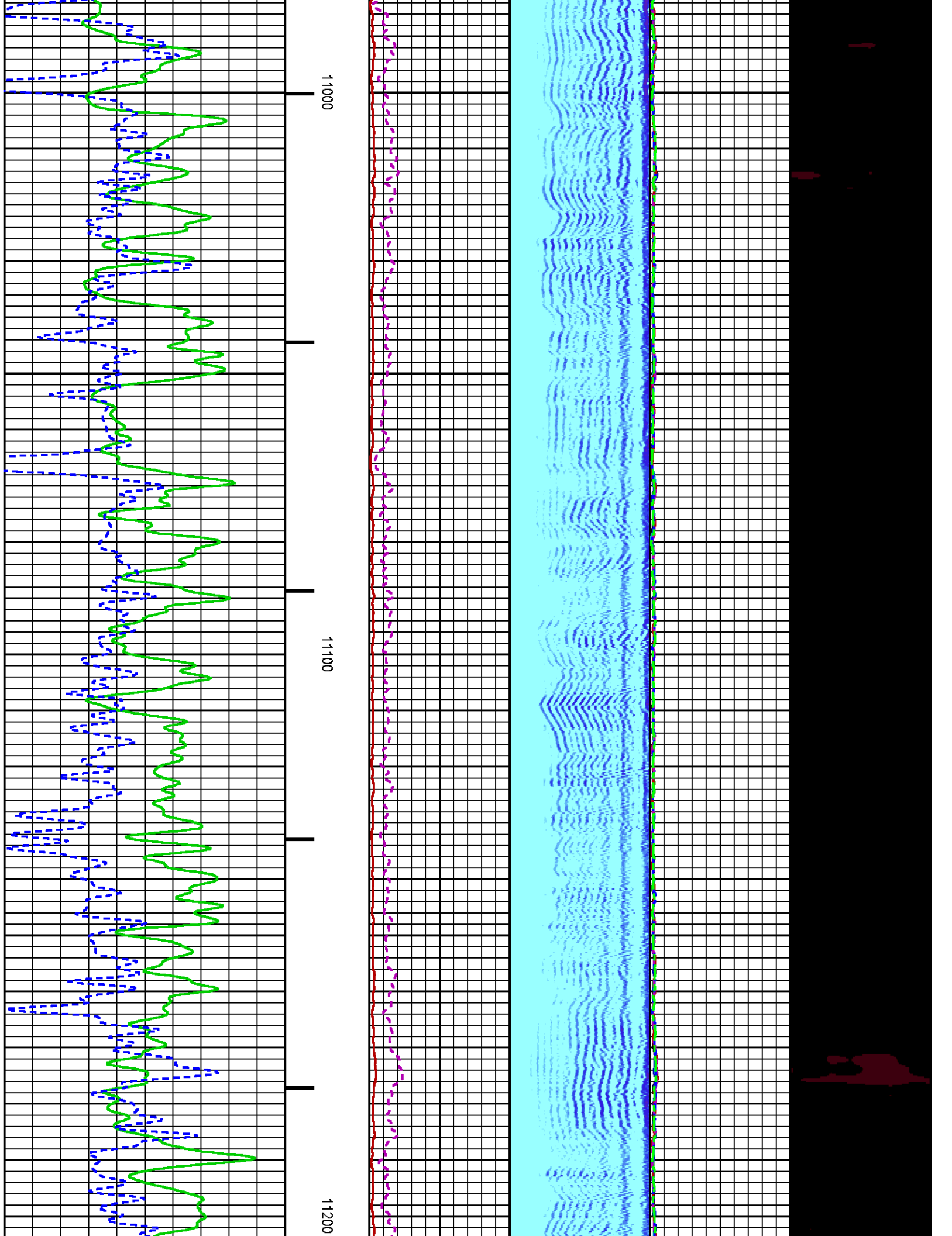


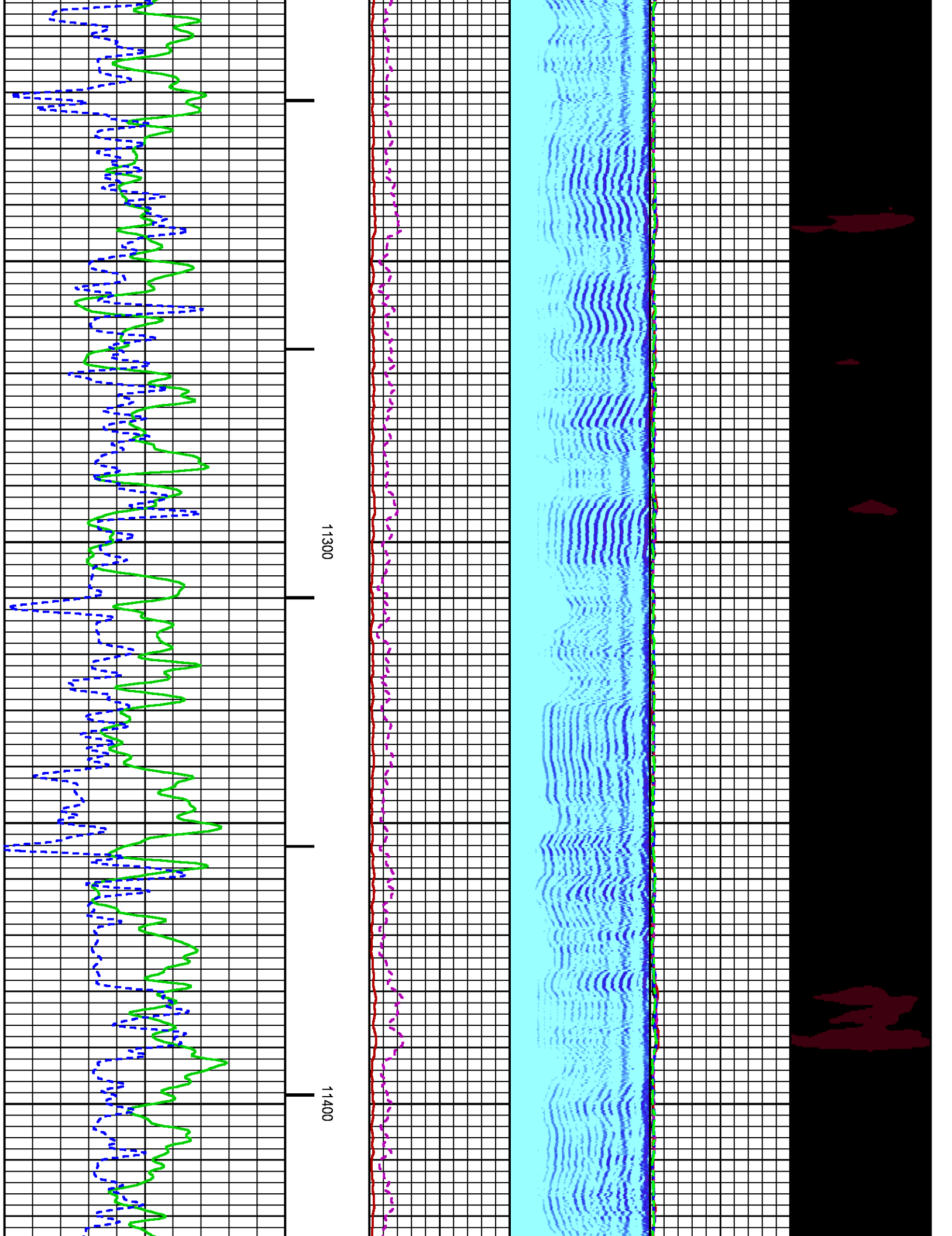


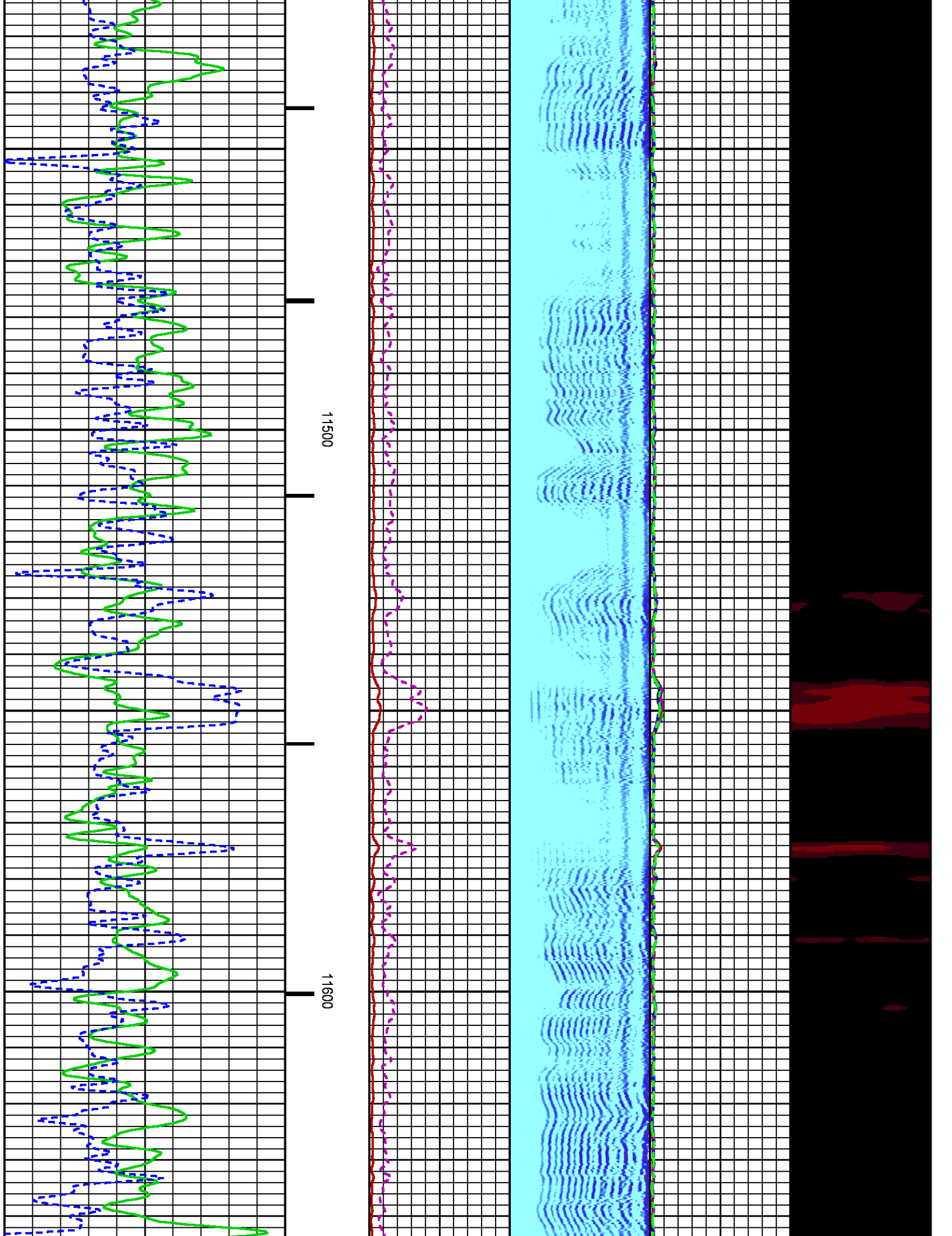


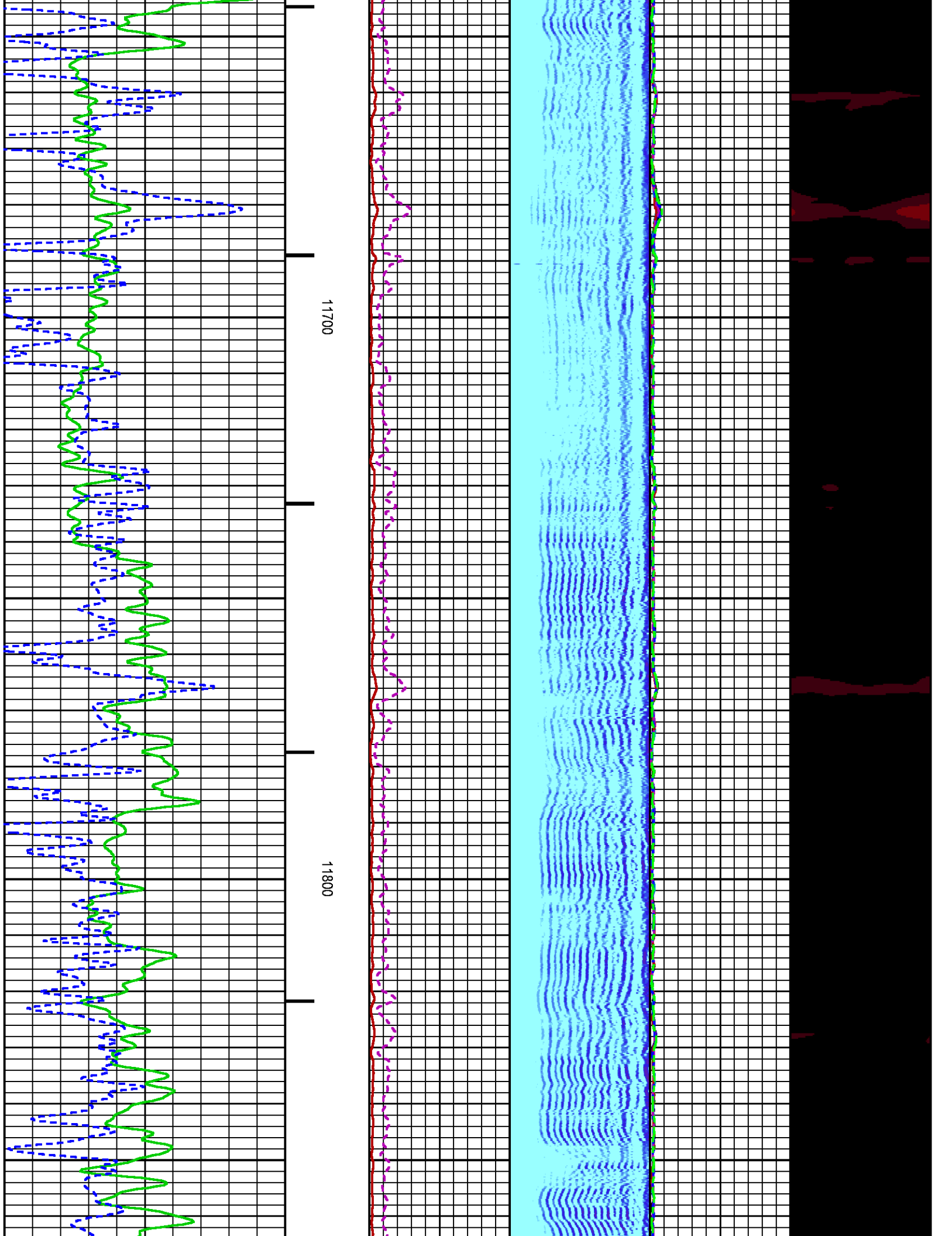


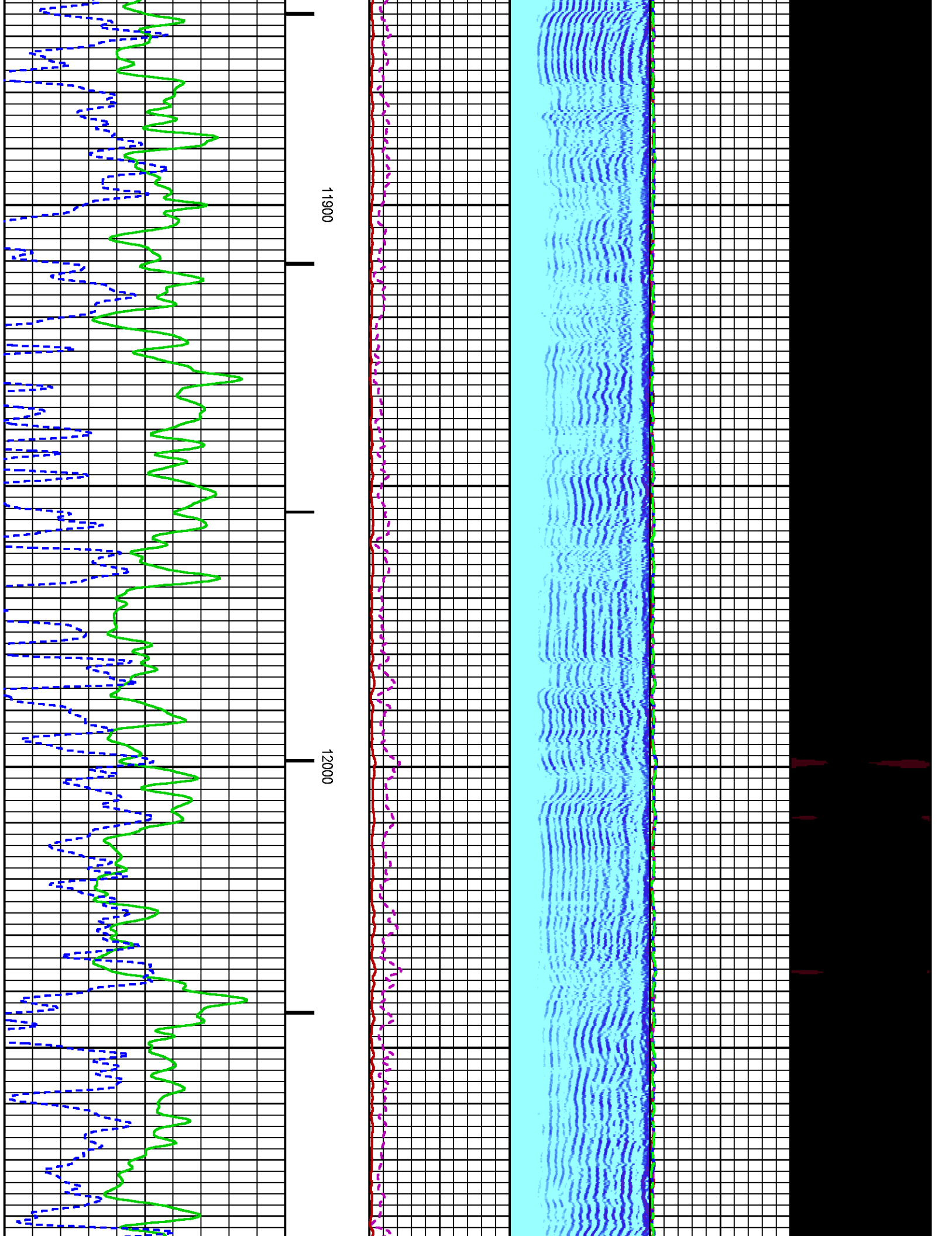


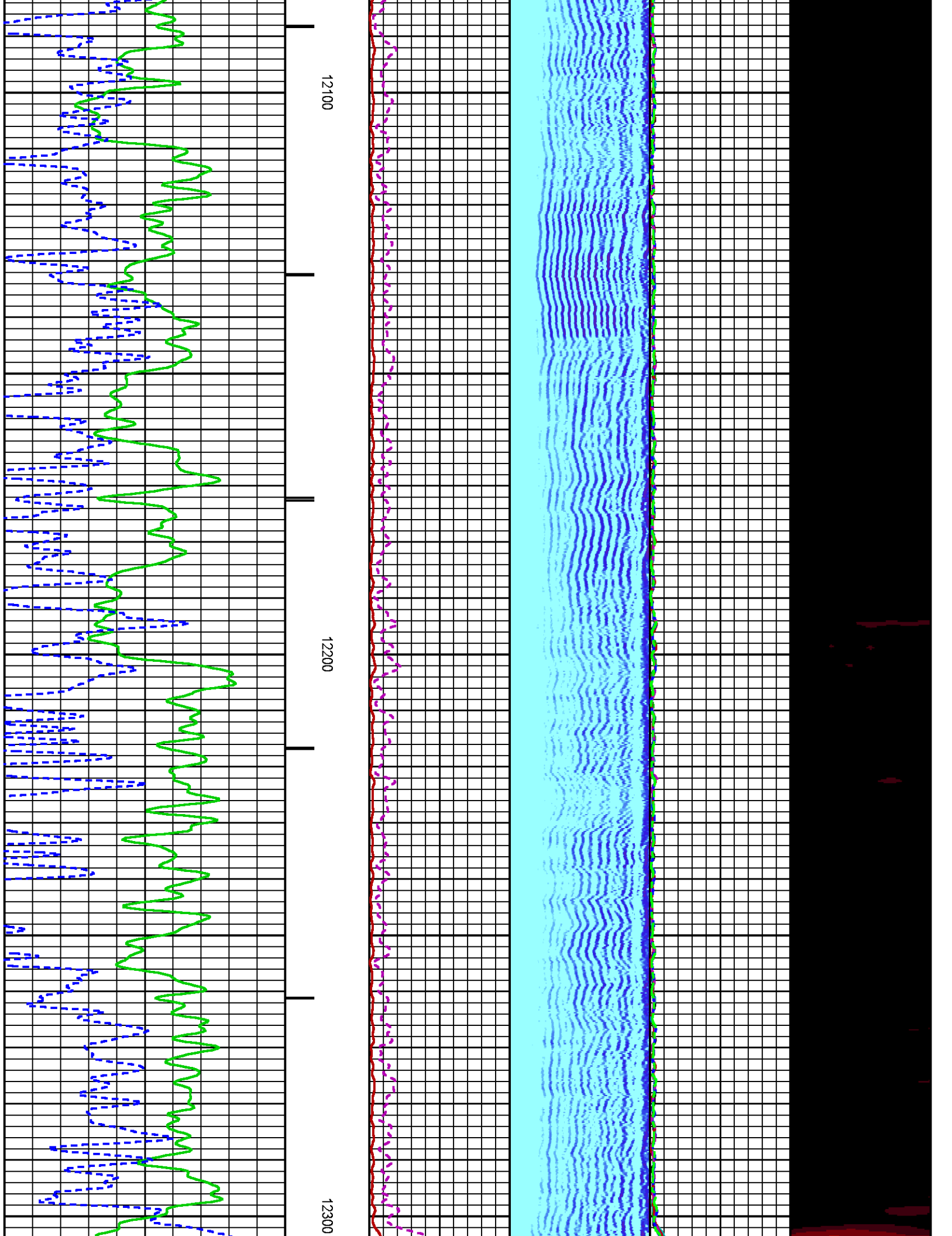


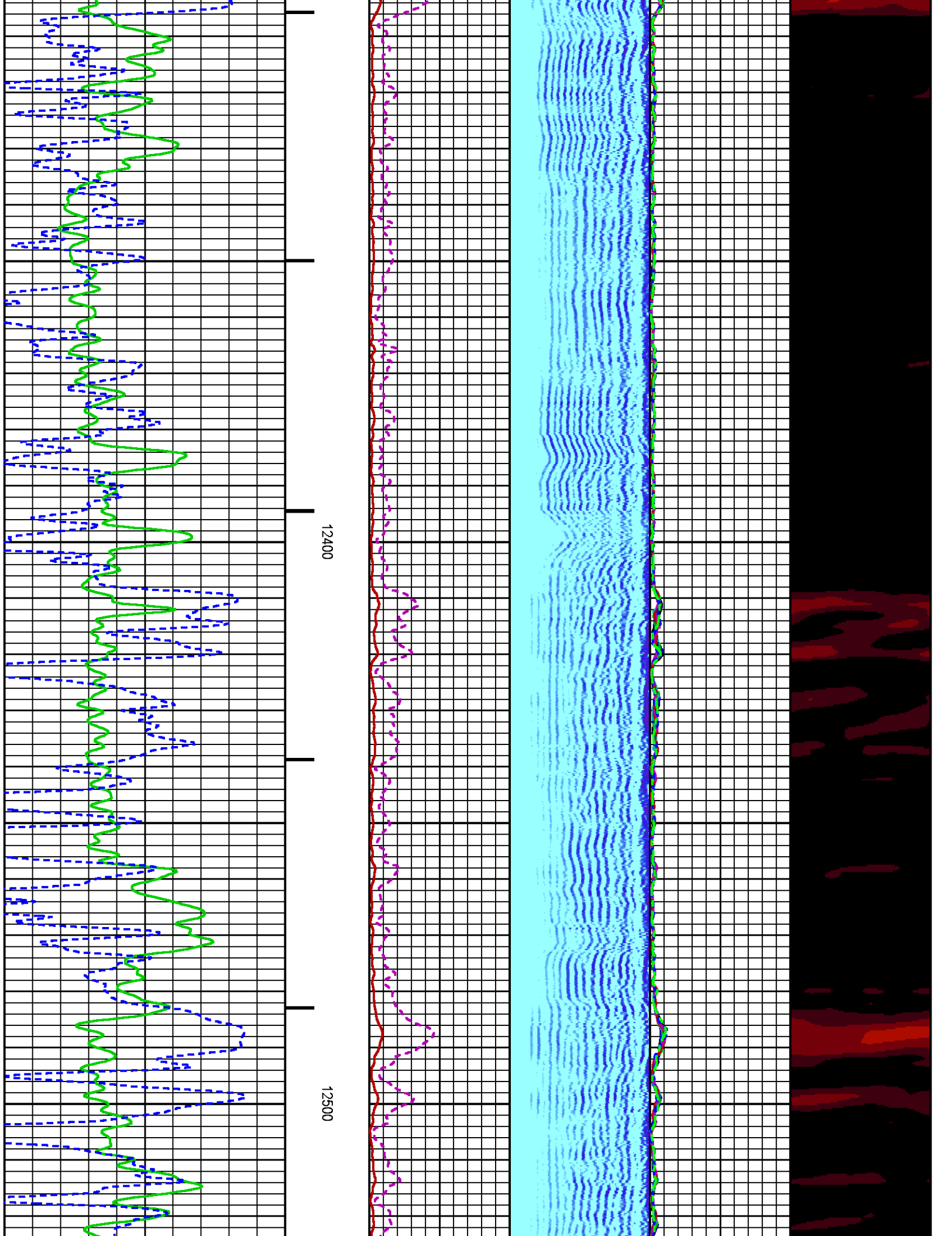


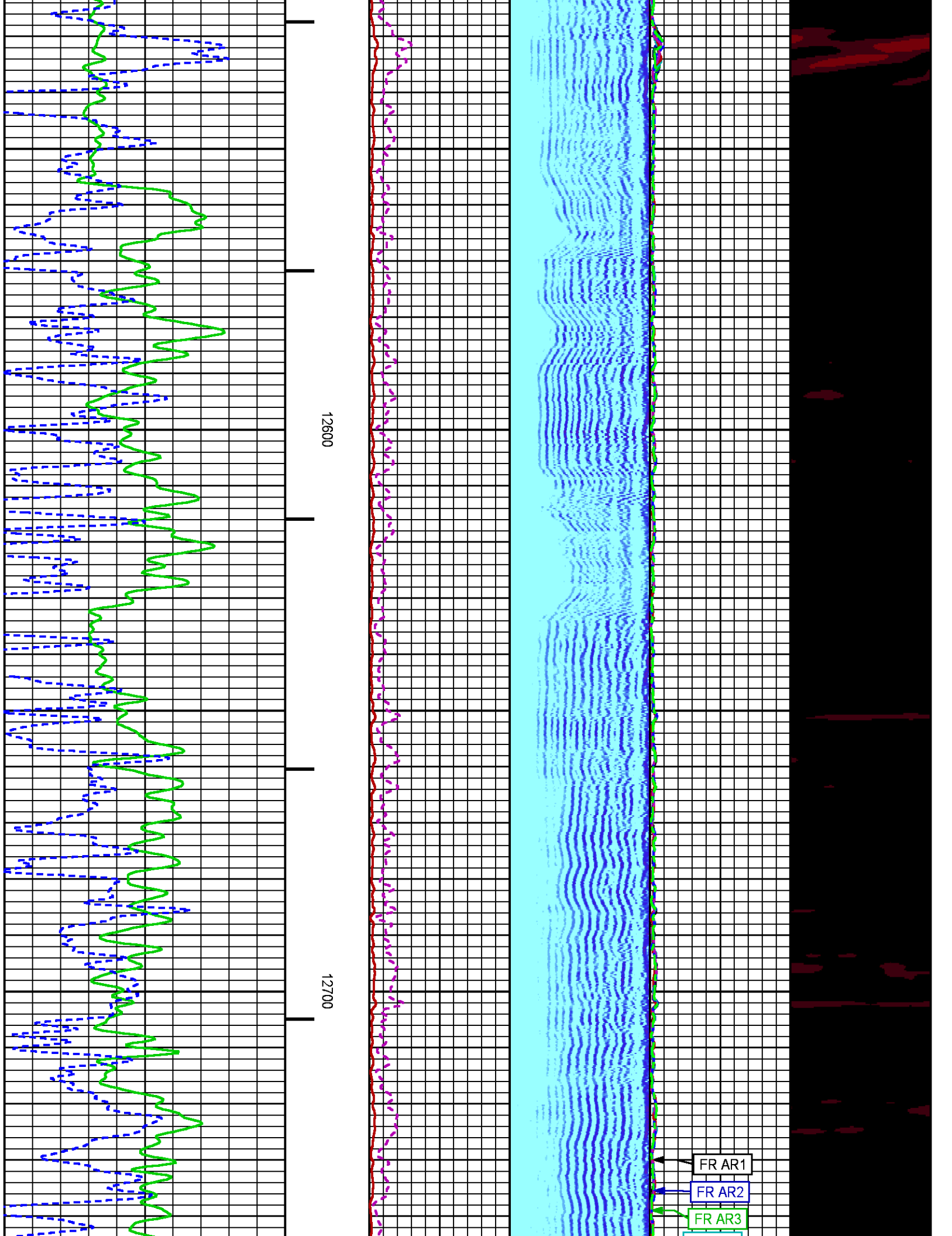


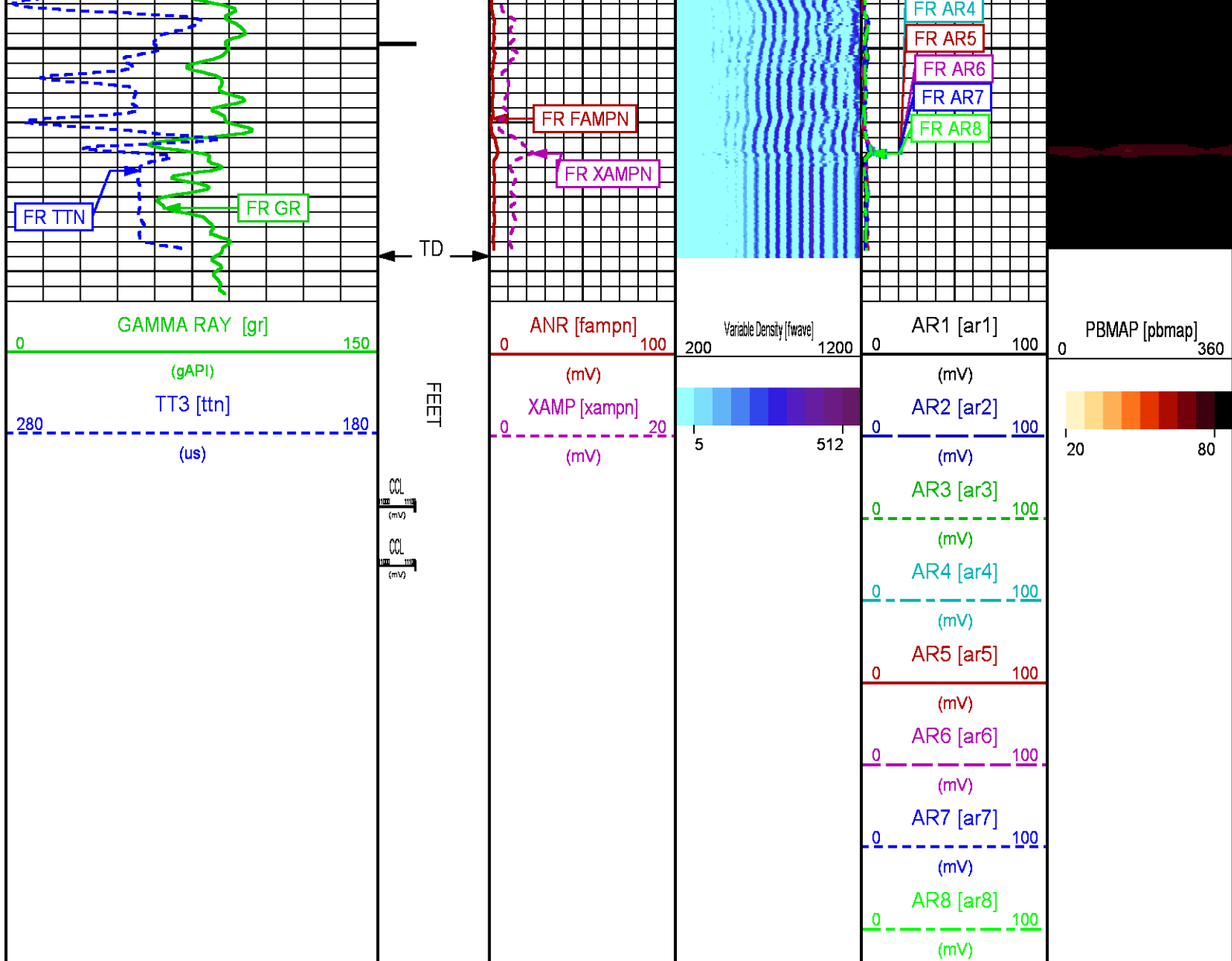












CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH095502/n012e.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED:

Mon Mar 23 10:26:25 2015

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)	-0.12	-0.48	-0.32	-0.40	-0.40	-0.16	-0.73	-0.49	-0.15	1.75	-0.01
AMP FLUID (mV)	73	73	72	72	72	73	73	73	73	97	72
TT (us)	219	219	219	218	218	218	218	218	220	327	220
M FACTOR	1.37	1.37	1.38	1.38	1.38	1.37	1.35	1.36	1.37	1.57	1.39

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1426XA 10154957	DATE/TIME PERFORMED:	Mon Mar 23 14:21:16 2015	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	-0.25	-0.48	-0.33	-0.42	-0.51	-0.26	-0.55	-0.63	-0.46	0.55	0.01
AMP AIR	0.75	1.05	0.73	0.93	1.24	0.74	0.64	1.23	0.73	0.74	100.40

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.39	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #:	2459XA 10218503	DATE/TIME PERFORMED:	Sat Feb 7 08:04:38 2015
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	97.87	365.24	267.4	0.692	67.72	252.72	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #:	2459XA 10218503	DATE/TIME PERFORMED:	Sat Feb 7 08:06:38 2015
UNIT #:	3880TA HL6670	VERI JIG #:	4702NK DA-041

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	97.69	370.71	0.692	67.59	256.50	188.91
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH095502/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'

NEU 1.40'

0.00'

RAL NEUTRON/GR/CCL/CHV DETECTOR

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

BULL PLUG 2 3/4

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



COMPANY
WELL
FIELD
COUNTY

WPX ENERGY
FEDERAL RGU 33-23-198
SULPHUR CREEK
RIO BLANCO STATE COLORADO

FILE NO:
CH095502
API NO:
05103119790000

LOCATION:

SHL: 1055' FSL & 629' FEL
BHL: 2448' FSL & 1892' FEL

ELEVATIONS:

KB 6592 FT
DF
GL 6567 FT

23 1S 98W
RGU 43-23-198
AZTEC 1000

SEC 23 TWP 1S RGE 98W

DATE 23-Mar-2015

