



FILE NO: CH094614
COMPANY WPX ENERGY
WELL FEDERAL RGU 333-23-198

API NO: 05103121430000
FIELD SULPHUR CREEK
COUNTY RIO BLANCO STATE COLORADO

Version 23 1S 98W
RGU 43-26-198
AZTEC 1000
LOCATION: SHL: 1050' FSL & 635' FEL
BHL: 2097' FSL & 1908' FSL (NWSE)
SEC 26 TWP 1S RGE 98W
OTHER SERVICES RPM

PERMANENT DATUM GL ELEVATION 6622 FT
LOG MEASURED FROM KB 21 FT ABOVE P.D.
DRILL MEAS. FROM KB
GL 6622 FT

DATE	20-Feb-2015
RUN	1
TRIP	1
SERVICE ORDER	US094614
DEPTH DRILLER	12754 FT
DEPTH LOGGER	12724 FT
BOTTOM LOGGED INTERVAL	12714 FT
TOP LOGGED INTERVAL	21 FT
TIME STARTED	08:30
TIME FINISHED	14:00
OPERATOR RIG TIME	5.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	80 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	65 FMIN
MAX. RECORDED TEMP.	287 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	22-Dec-2014
EQUIP. NO.	4271
LOCATION	GRAND JCT.
RECORDED BY	FLOYD RENEAU
WITNESSED BY	COLT 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	21 FT	80 FT
13.5 IN	80 FT	3992 FT
8.75 IN	3992 FT	12754 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
18 IN			21 FT	80 FT
9.624 IN			21 FT	3992 FT
4.5 IN	11.6 LB/F	I-80	21 FT	12754 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 12/22/2014 at the clients request.
The amount of linear shift is 23 feet.
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.
Logged with Zero PSI at wellhead.
BHT = 287 degF

SJ = 7587'-7608'

Thanks you for choosing Baker-Hughes.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	1355XA	10580209	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: 46 Patches: 5

Plotted: Mon Feb 23 12:26:04 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\094614\012g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 14.750 ft BOTTOM DEPTH: 8715.297 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*)	186	us	TOP	5655.750
		187	us	5655.750	5656.500
		188	us	5656.500	5658.000
		189	us	5658.000	5658.500
		191	us	5658.500	5658.750
		192	us	5658.750	5659.000
		193	us	5659.000	5659.250
		194	us	5659.250	5659.500
		195	us	5659.500	5659.750
		196	us	5659.750	5660.000
		197	us	5660.000	5660.250
		199	us	5660.250	5660.750
		201	us	5660.750	5661.000
		202	us	5661.000	5661.250
		203	us	5661.250	BOTTOM
	AMP WINDOW LENGTH	25	us	TOP	BOTTOM
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	172	us	TOP	5617.500
		171	us	5617.500	5617.750
		170	us	5617.750	5618.000
		169	us	5618.000	5618.250
		168	us	5618.250	5618.500
		167	us	5618.500	5618.750
		166	us	5618.750	5619.000
		164	us	5619.000	5619.500
		163	us	5619.500	5620.750
		112	us	5620.750	5623.250
		111	us	5623.250	5623.500
		110	us	5623.500	5624.750
		175	us	5624.750	BOTTOM
	TT WINDOW LENGTH	500	us	TOP	BOTTOM
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	TOP	5634.750
		215.678	us	5634.750	BOTTOM
RAL TOOL DELAY	TOOL DELAY (strn*)	-74	us	TOP	BOTTOM
BASELINE NOISE (NEAR)	NOISE WINDOW START	140	us	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 23 11:12:42 2015	CASING COLLAR LOCATOR
F1:FAMPN	Feb 23 11:12:43 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 23 11:12:43 2015	FAR WAVE FORM
F1:GR	Feb 23 11:12:43 2015	GAMMA RAY
F1:TTN	Feb 23 11:12:44 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 23 11:12:44 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	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation

Plot Interval

: BHUGHES-06627:C:\dat1a\094614\333_CBL_MAIN.fvpdf [5"/100' Scale]

: -3.25 - 12731.8 Feet

Data File 1

Created On

Company

Well

Field

File Interval

OCT

: F1 : BHUGHES-06627:C:\dat1a\094614\333CBLMAIN.xtf

: Feb 23 11:12:42 2015

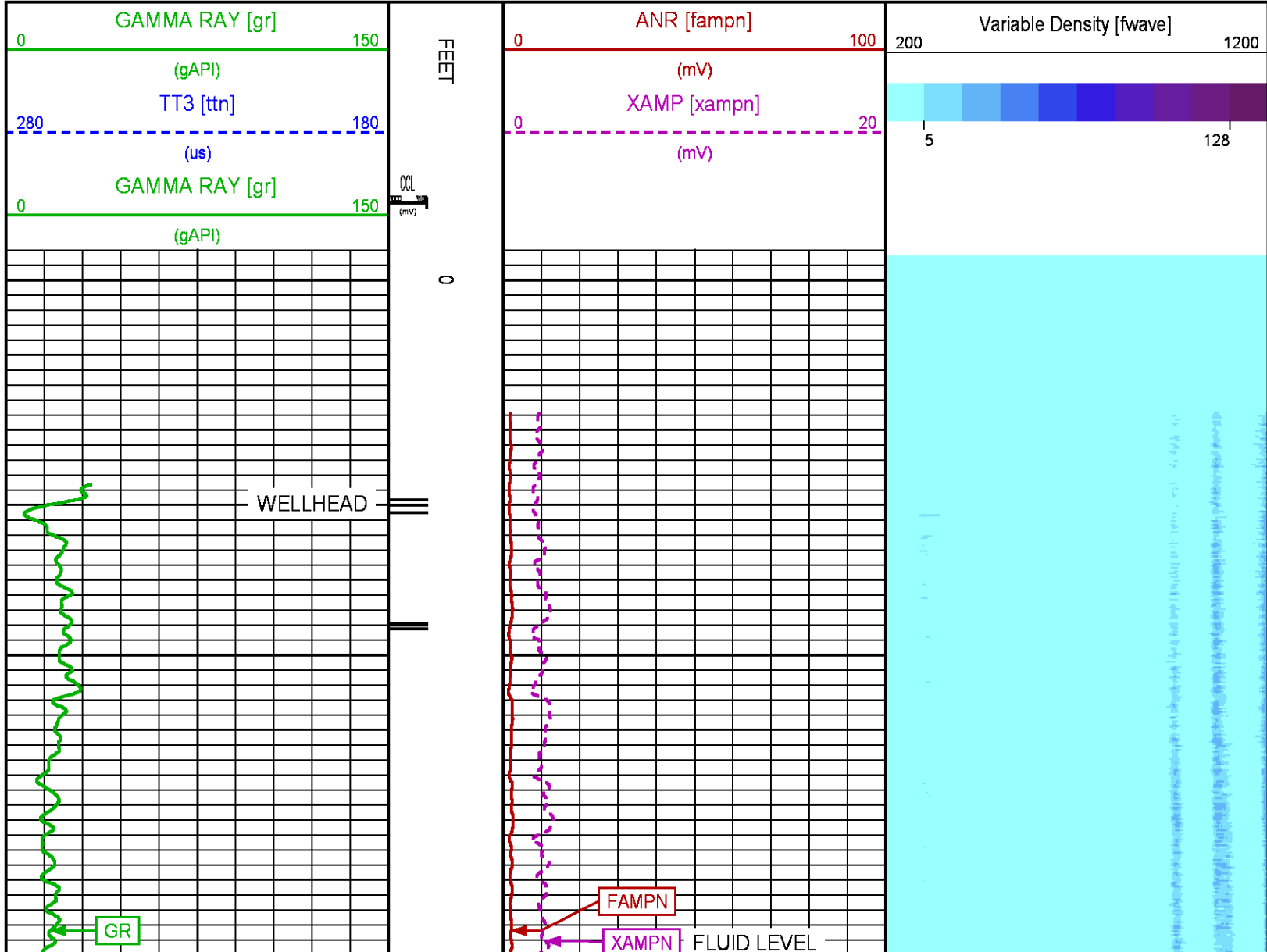
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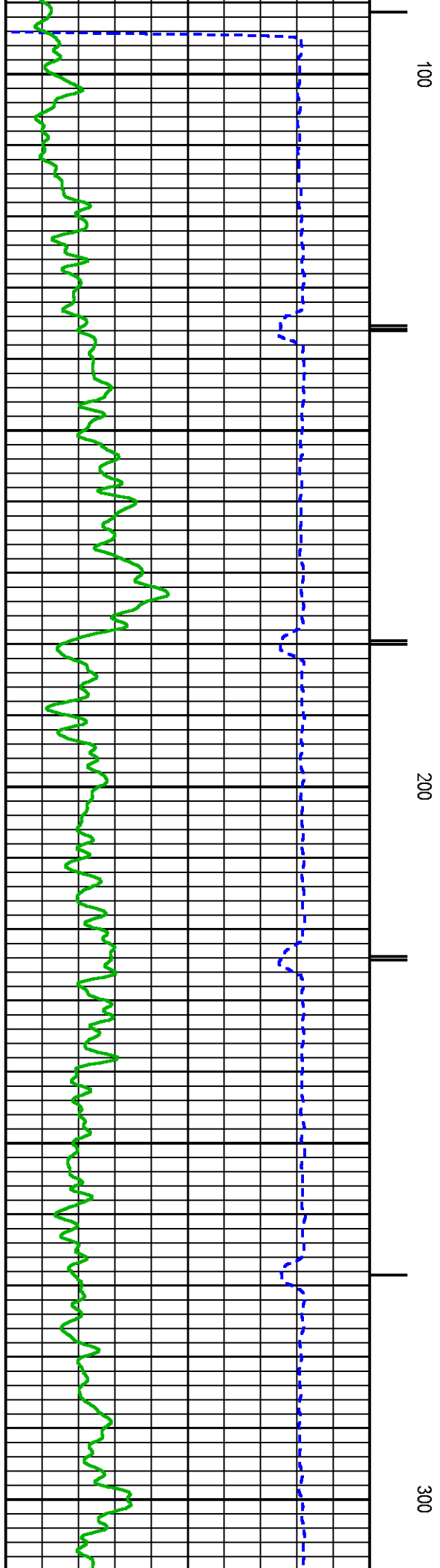
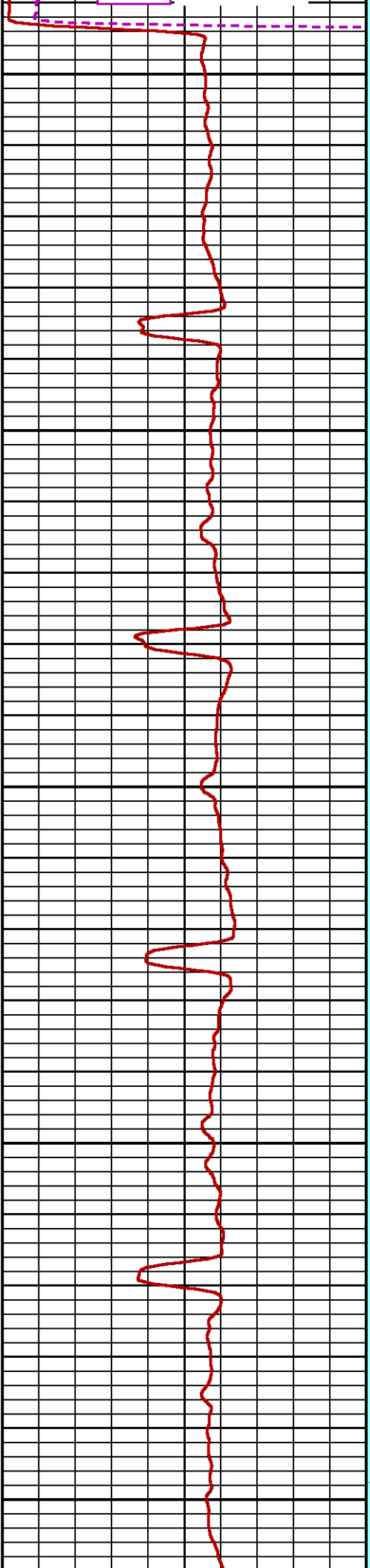
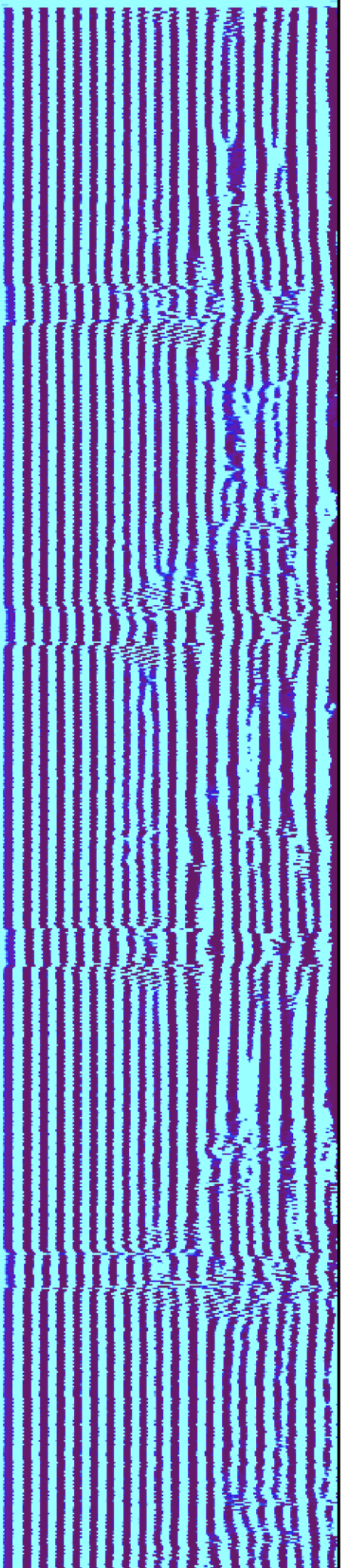
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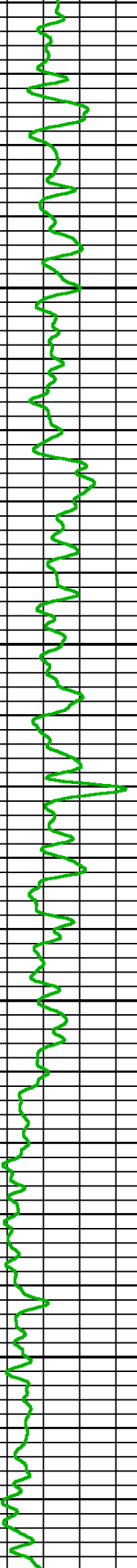
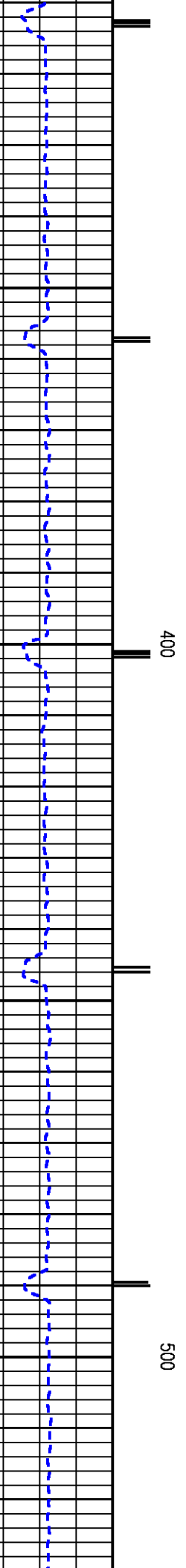
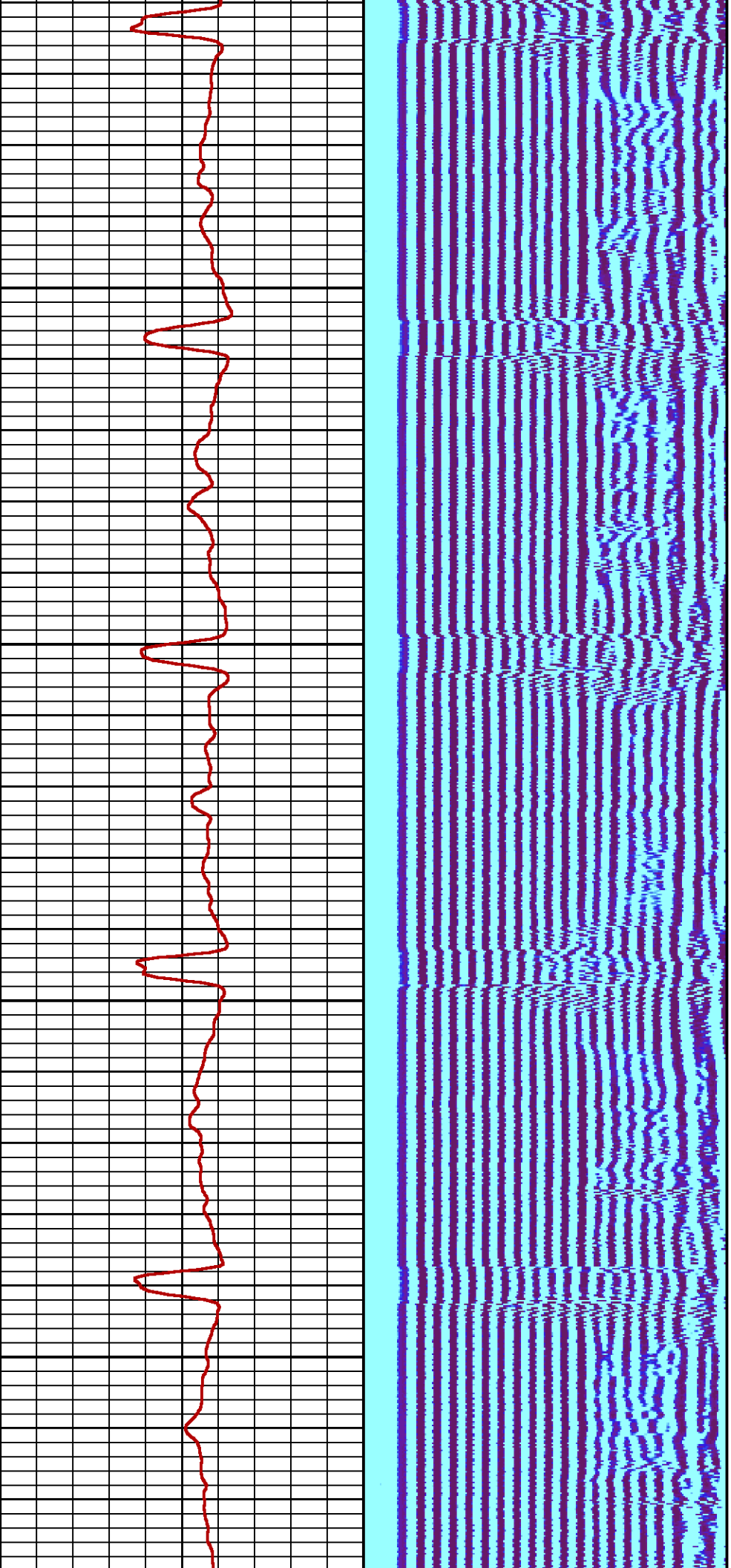
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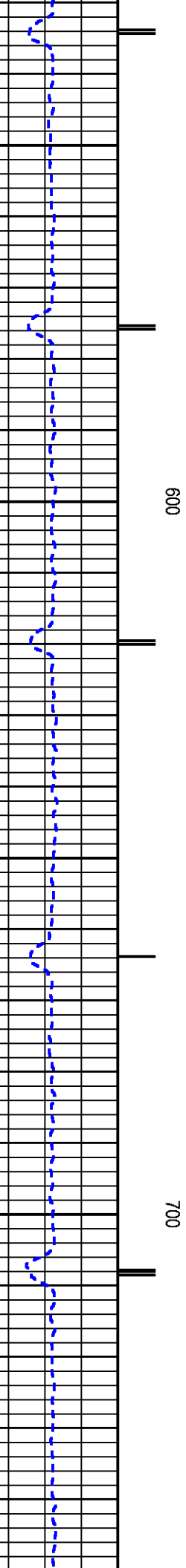
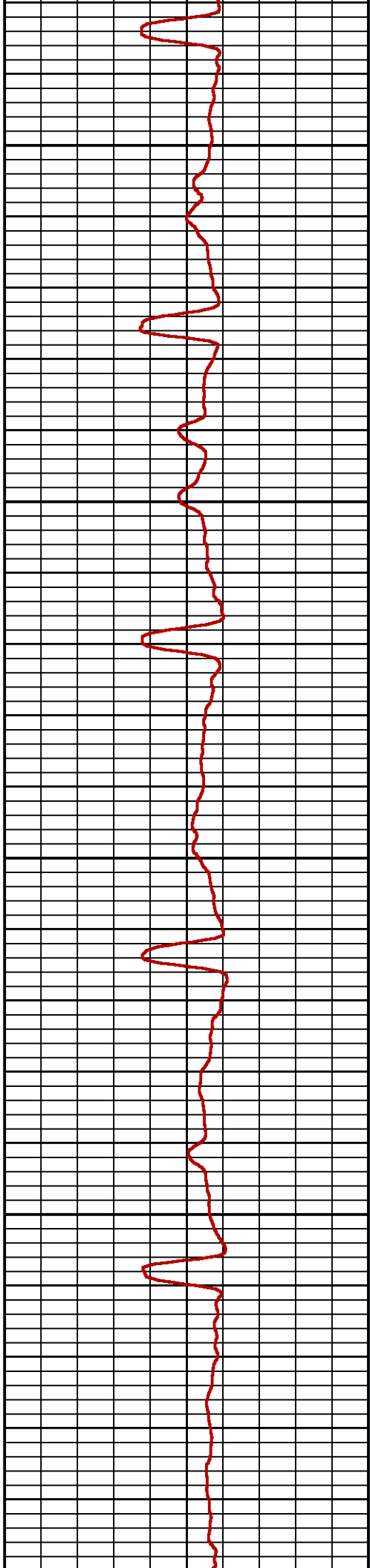
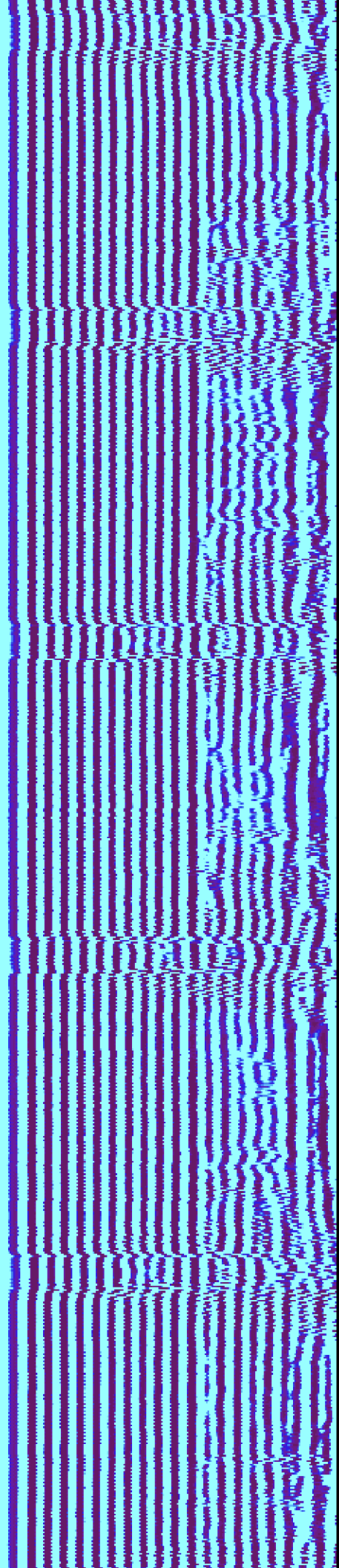
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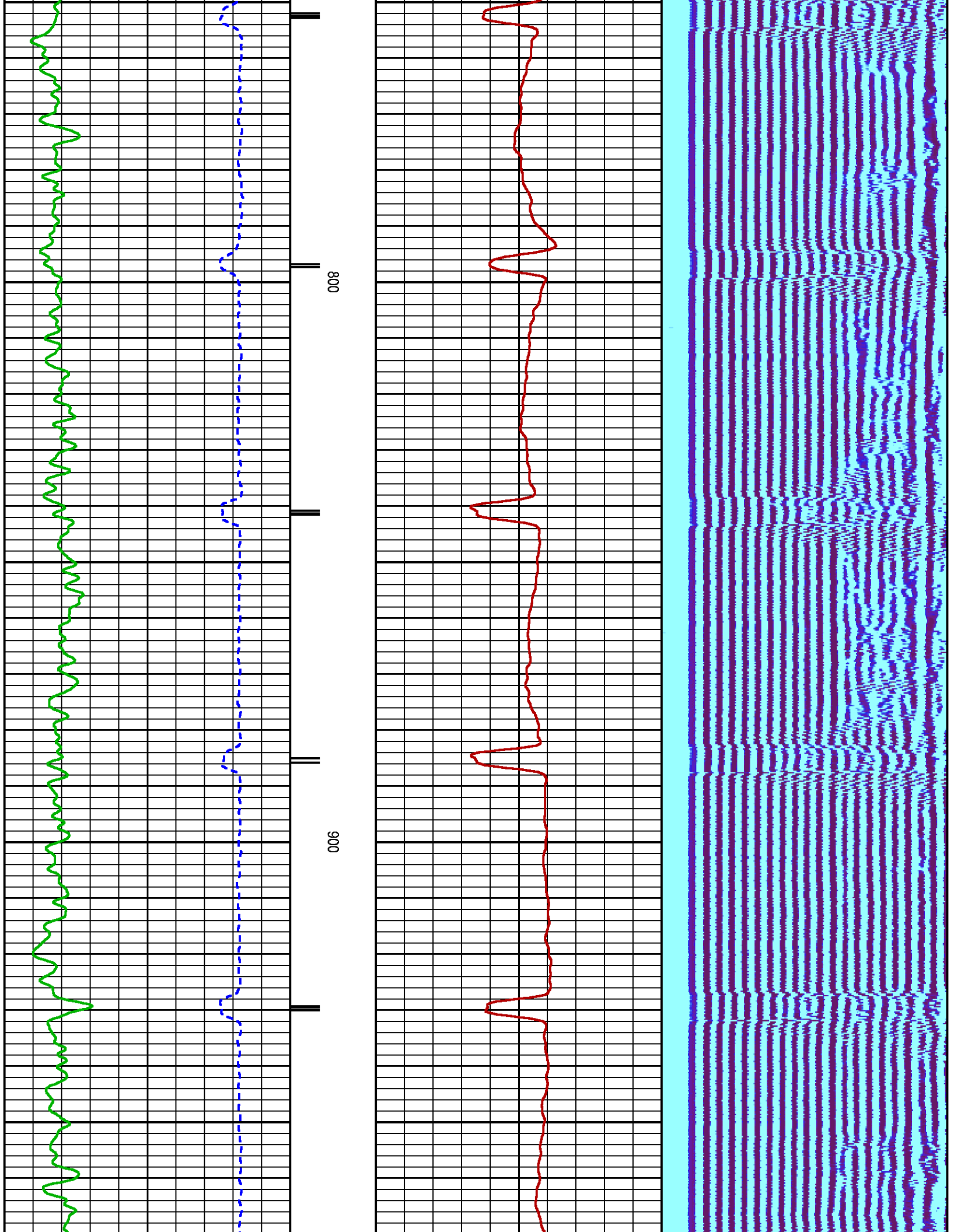
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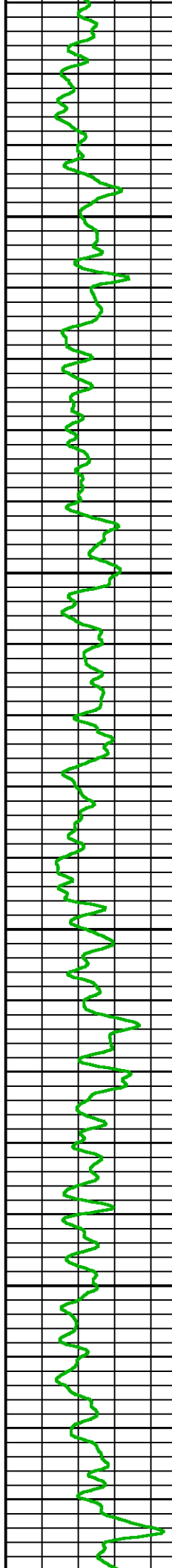
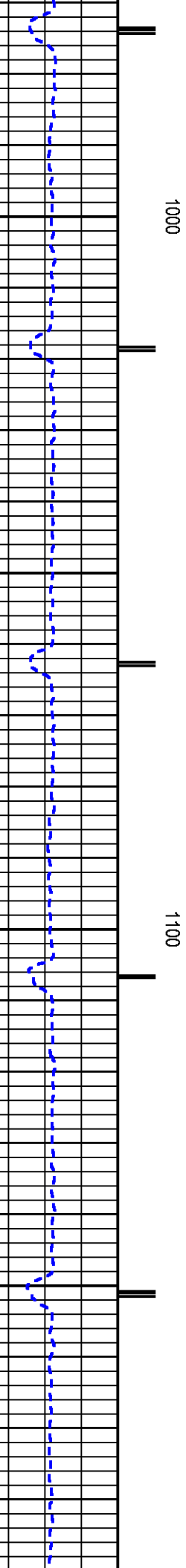
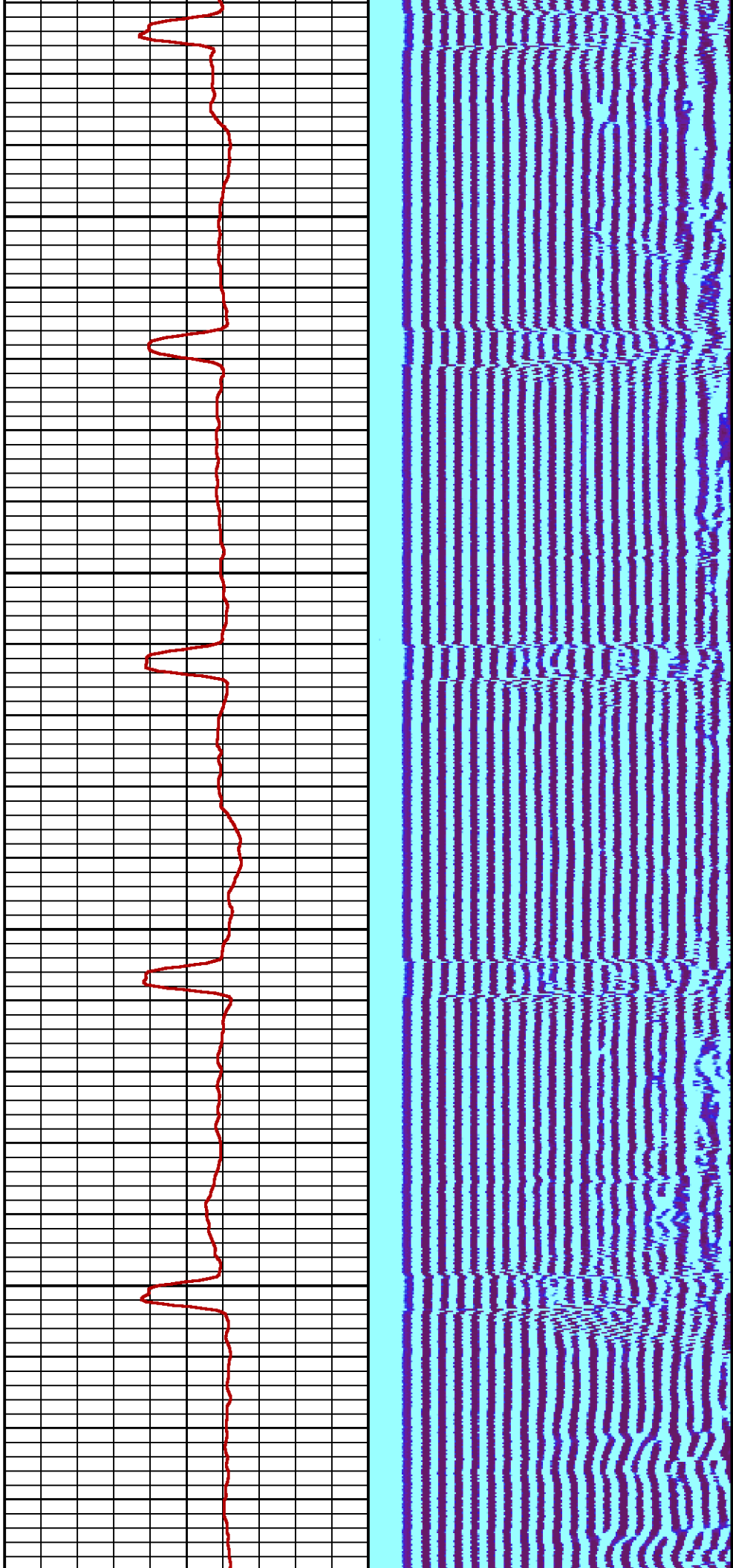


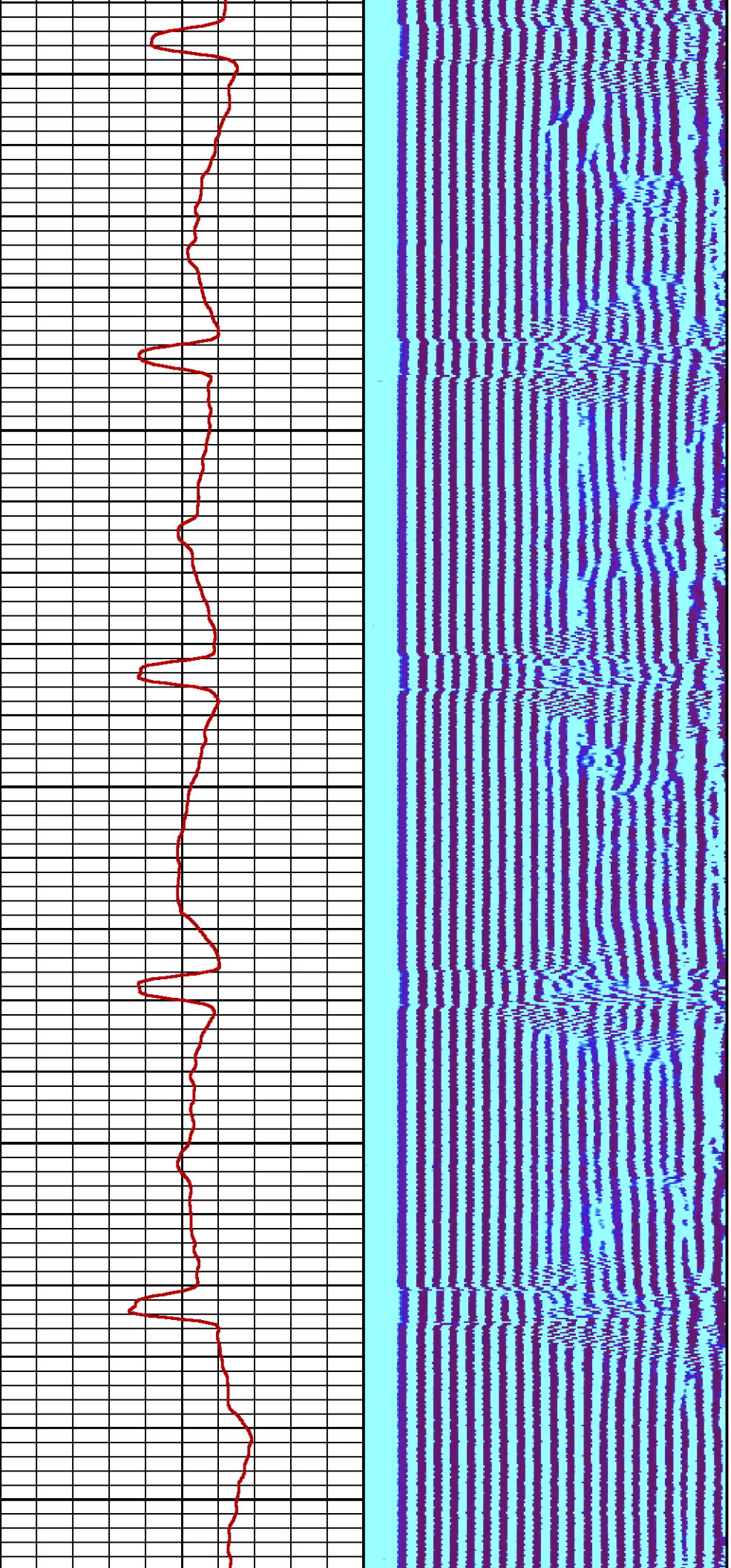








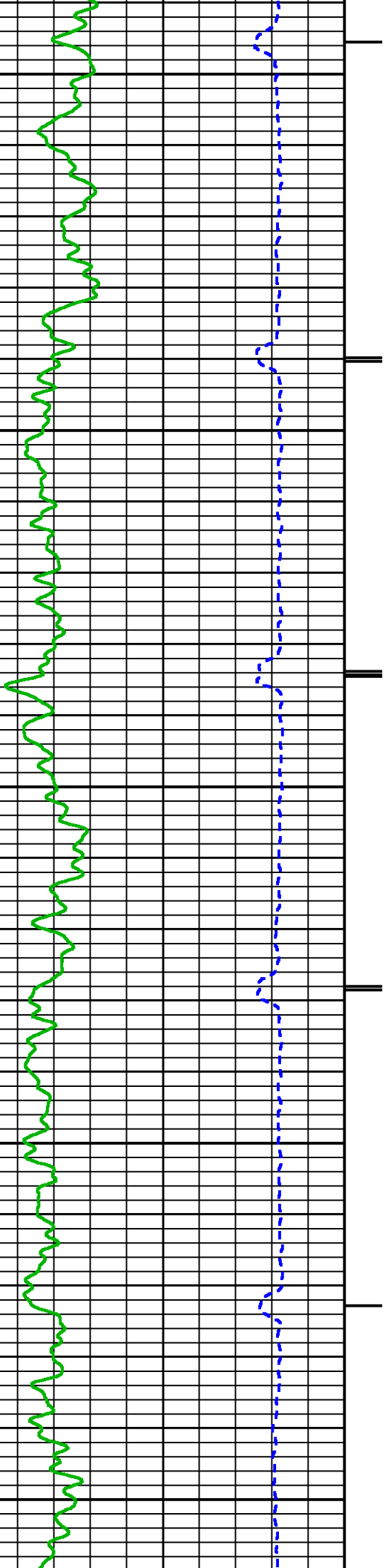


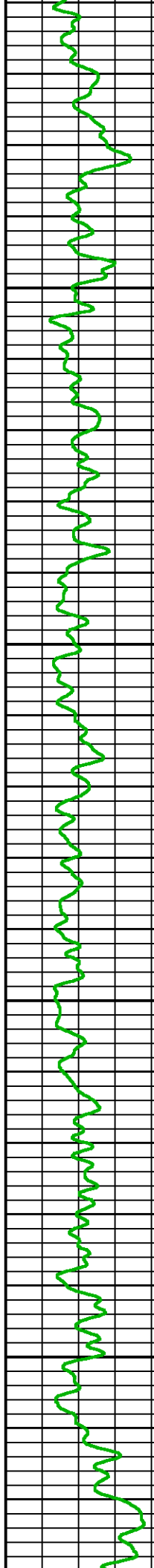
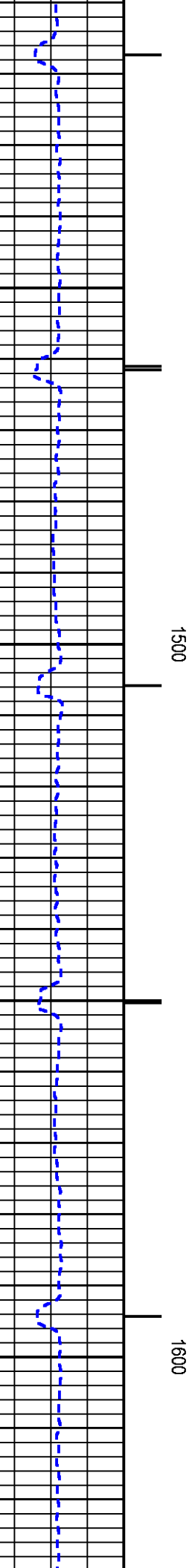
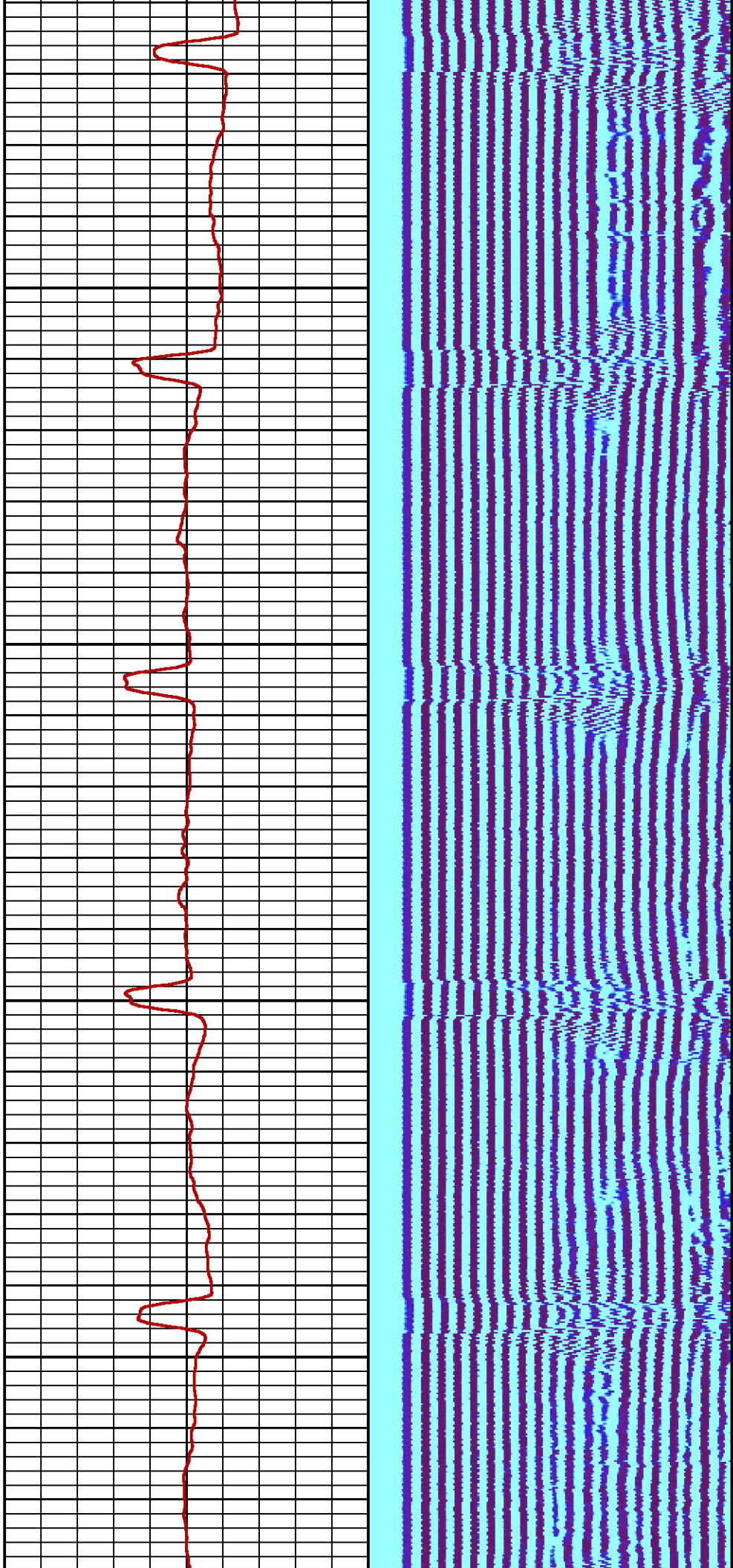


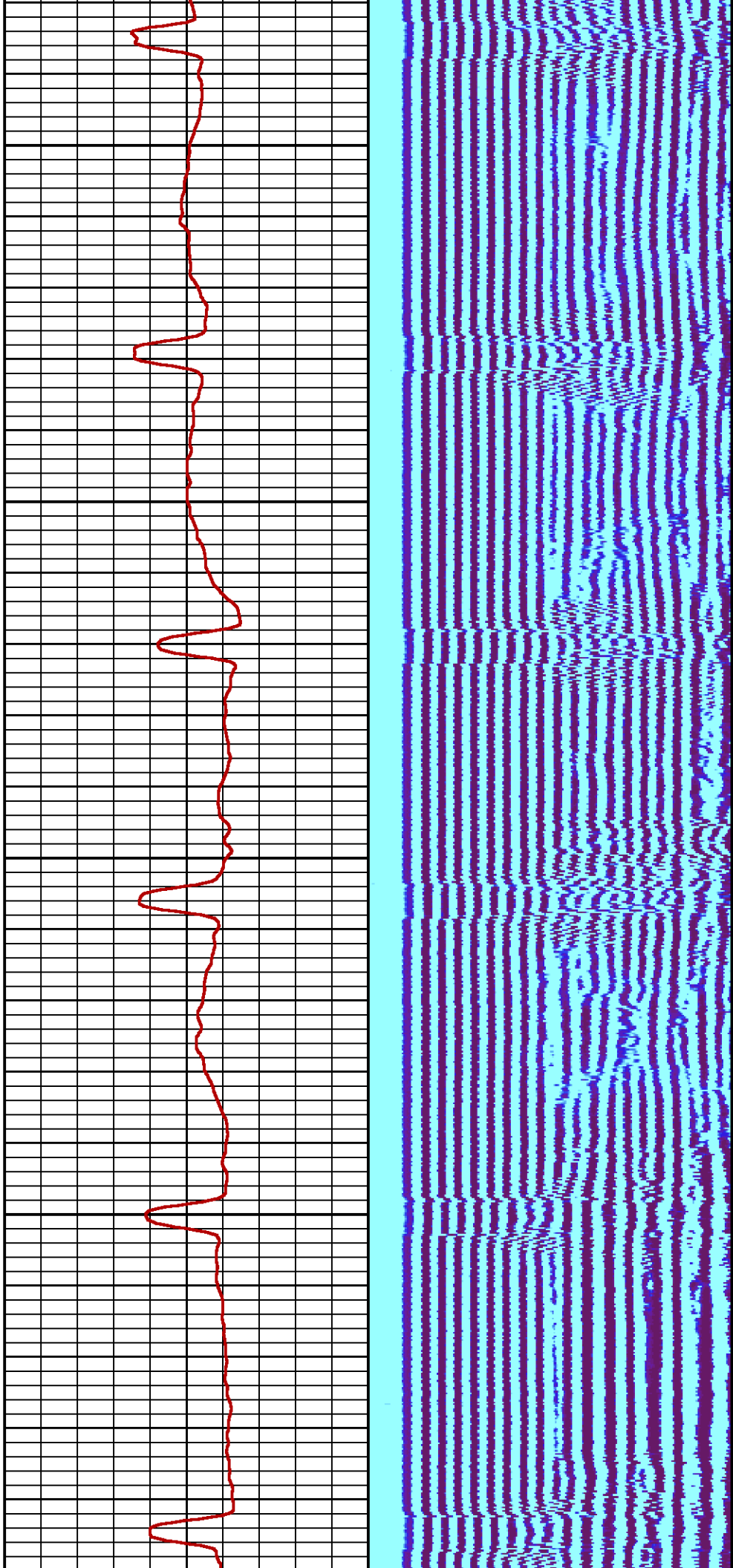
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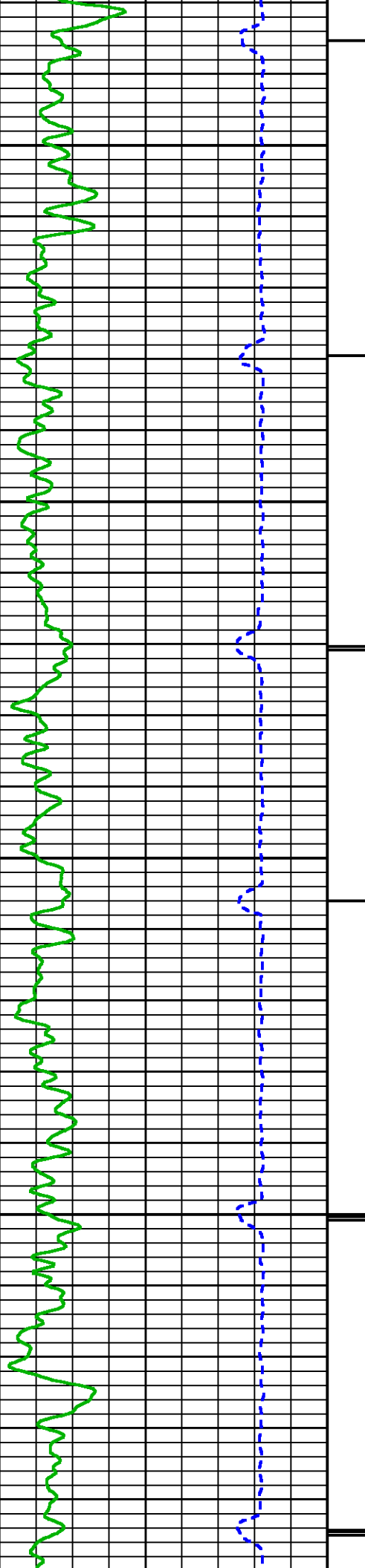


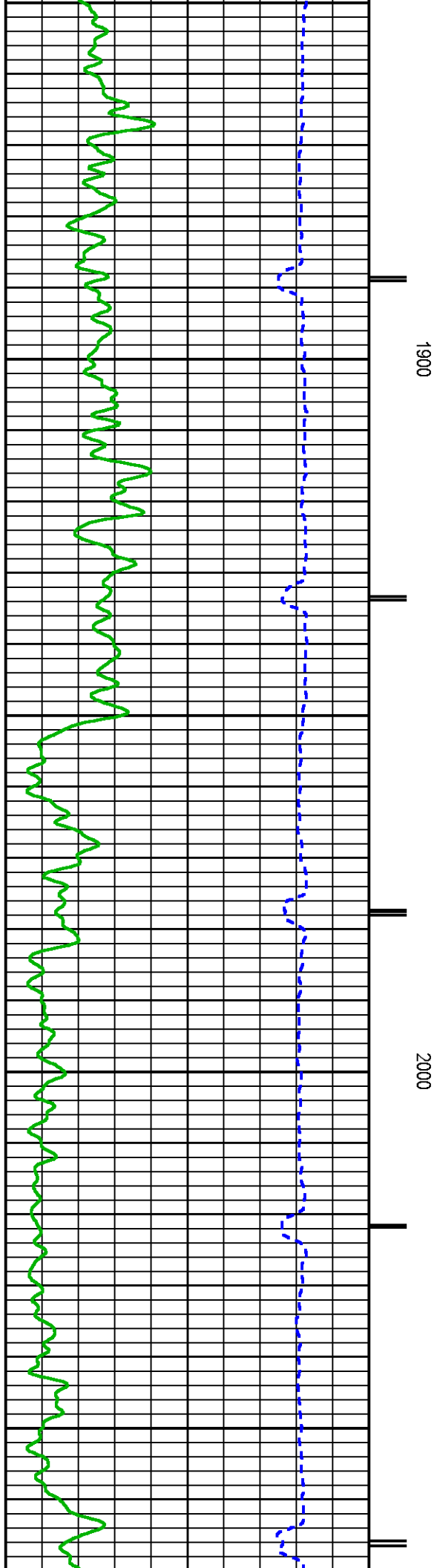
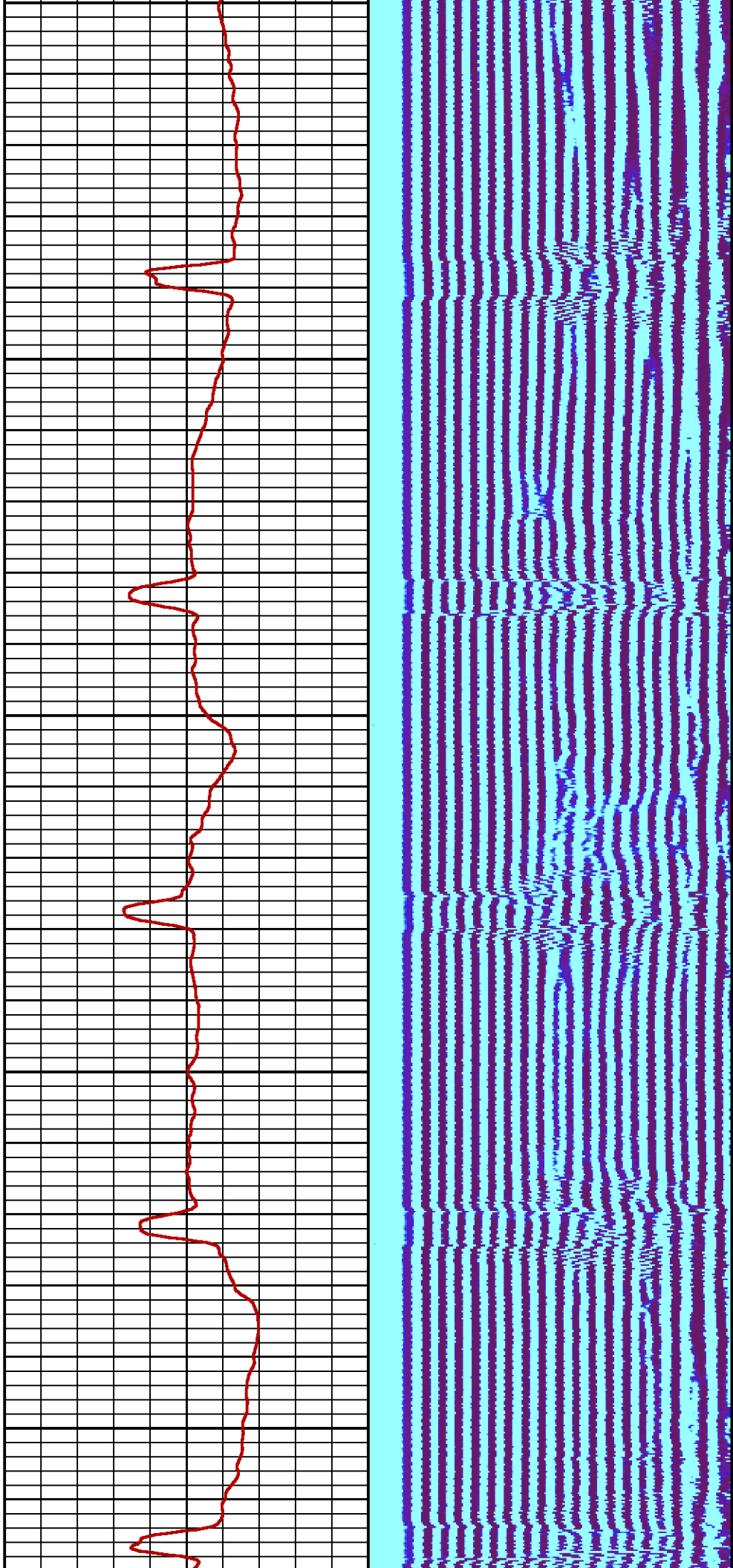


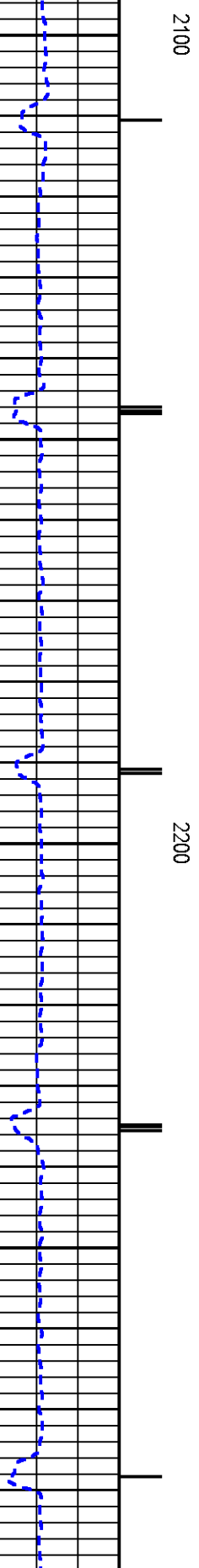
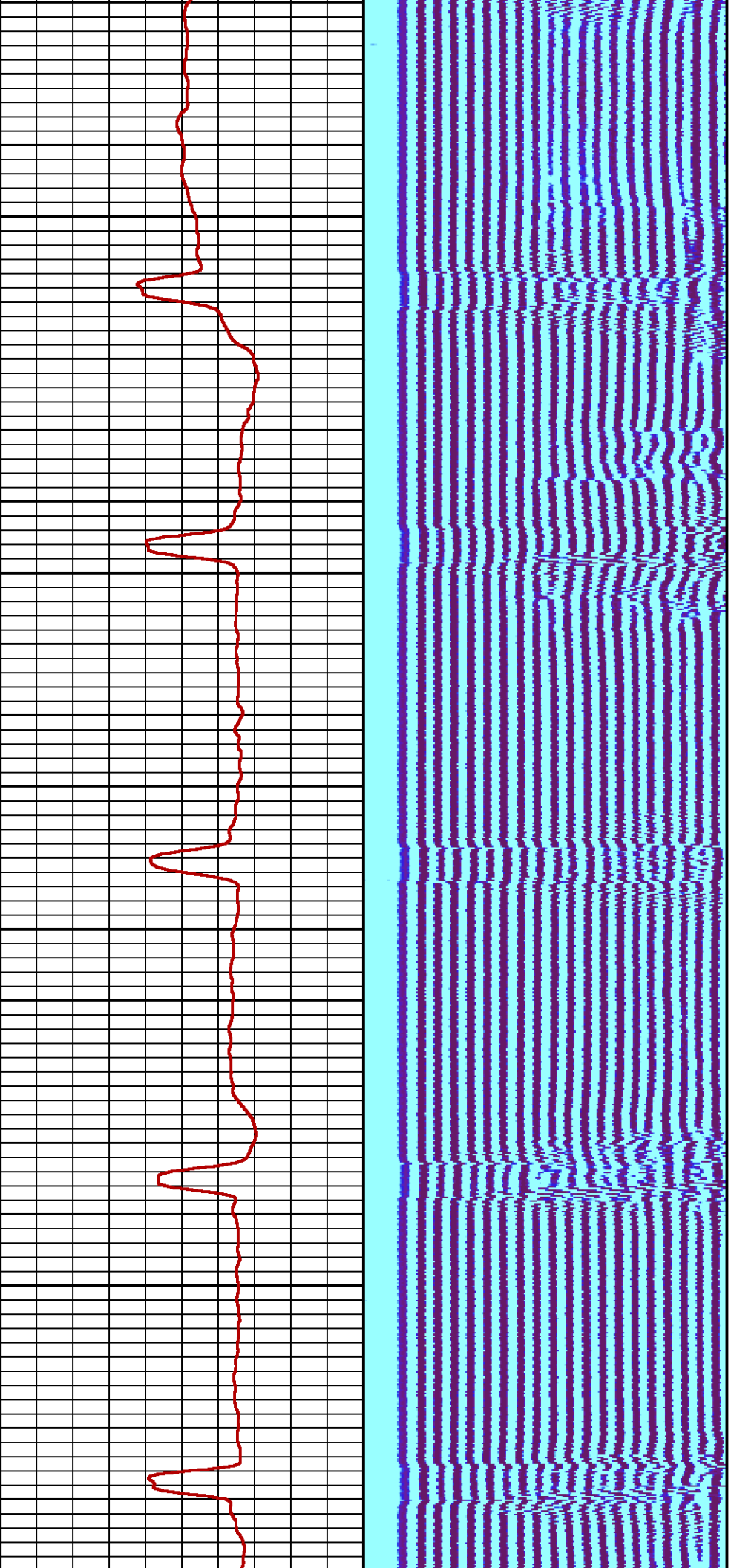


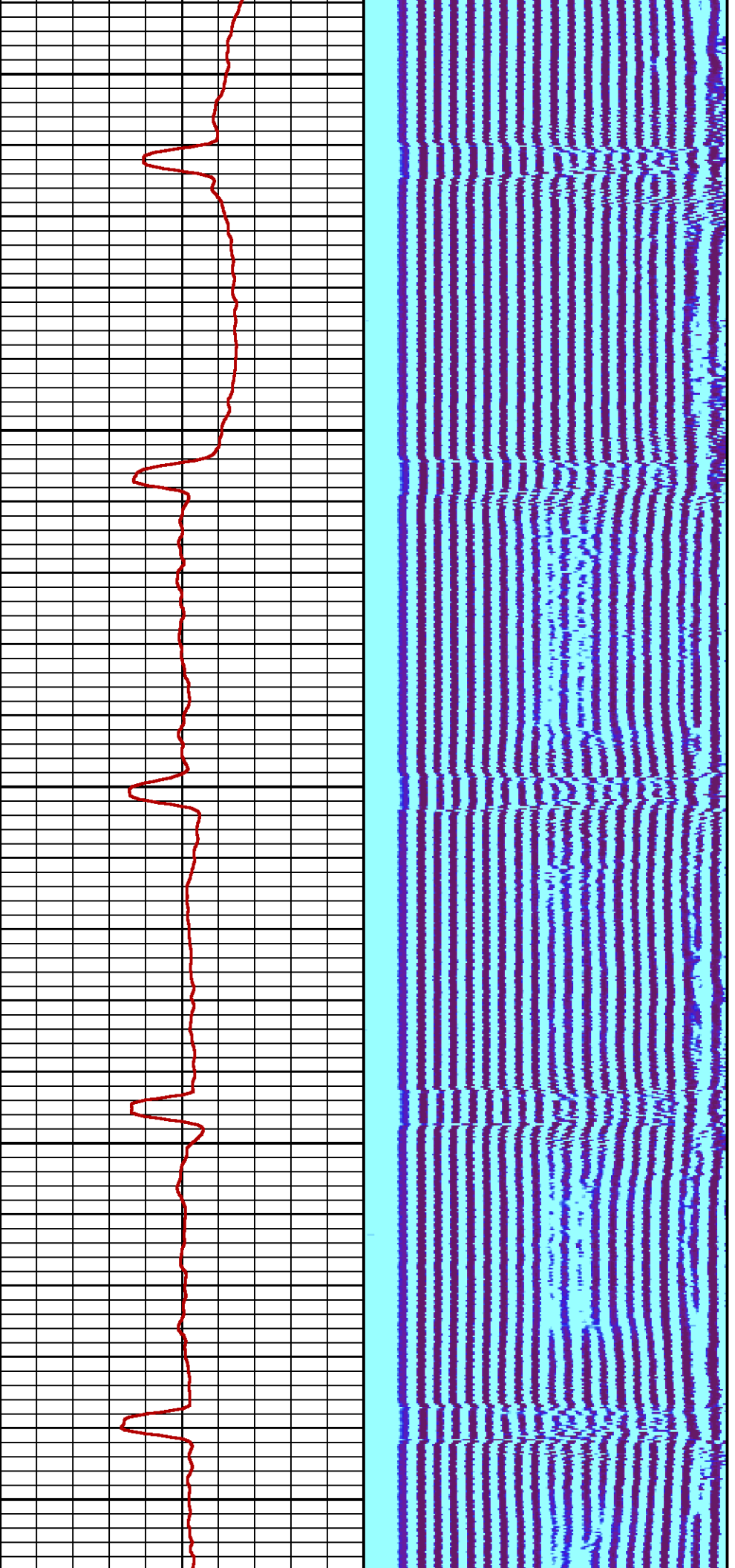
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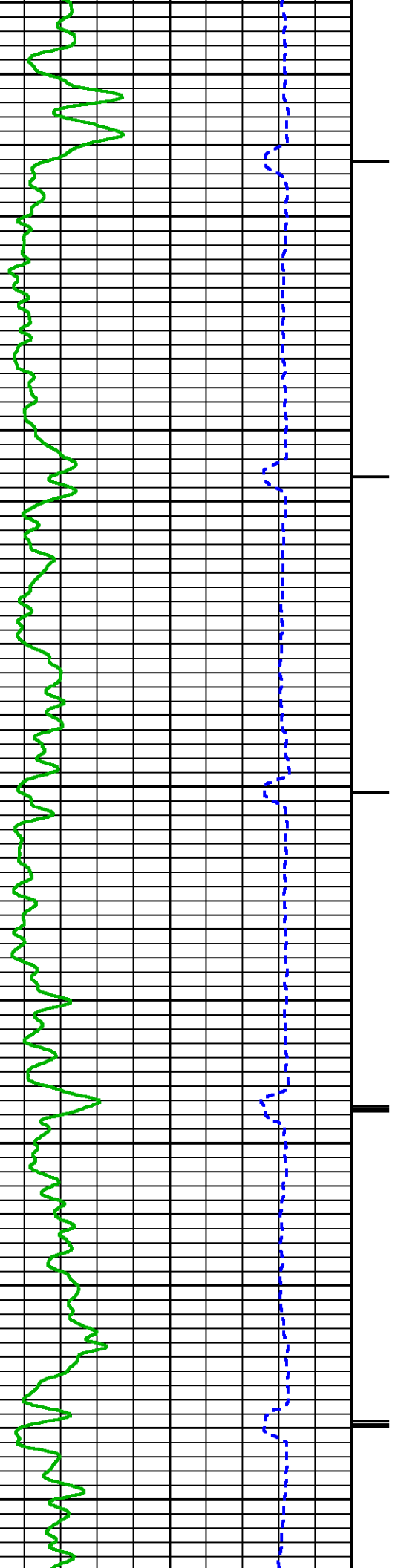


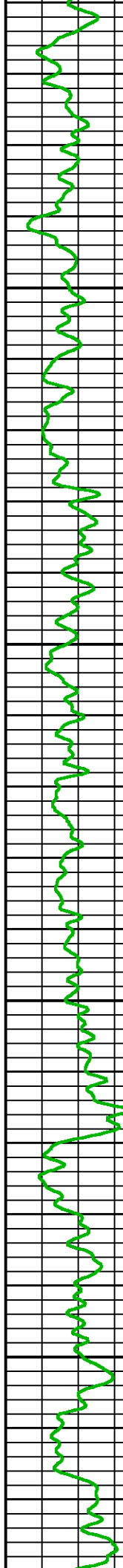
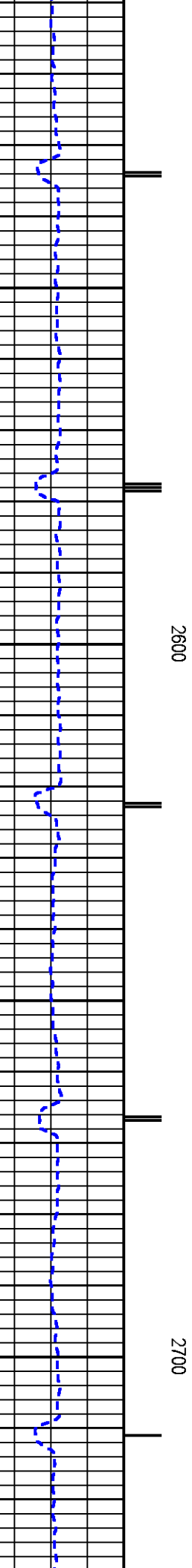
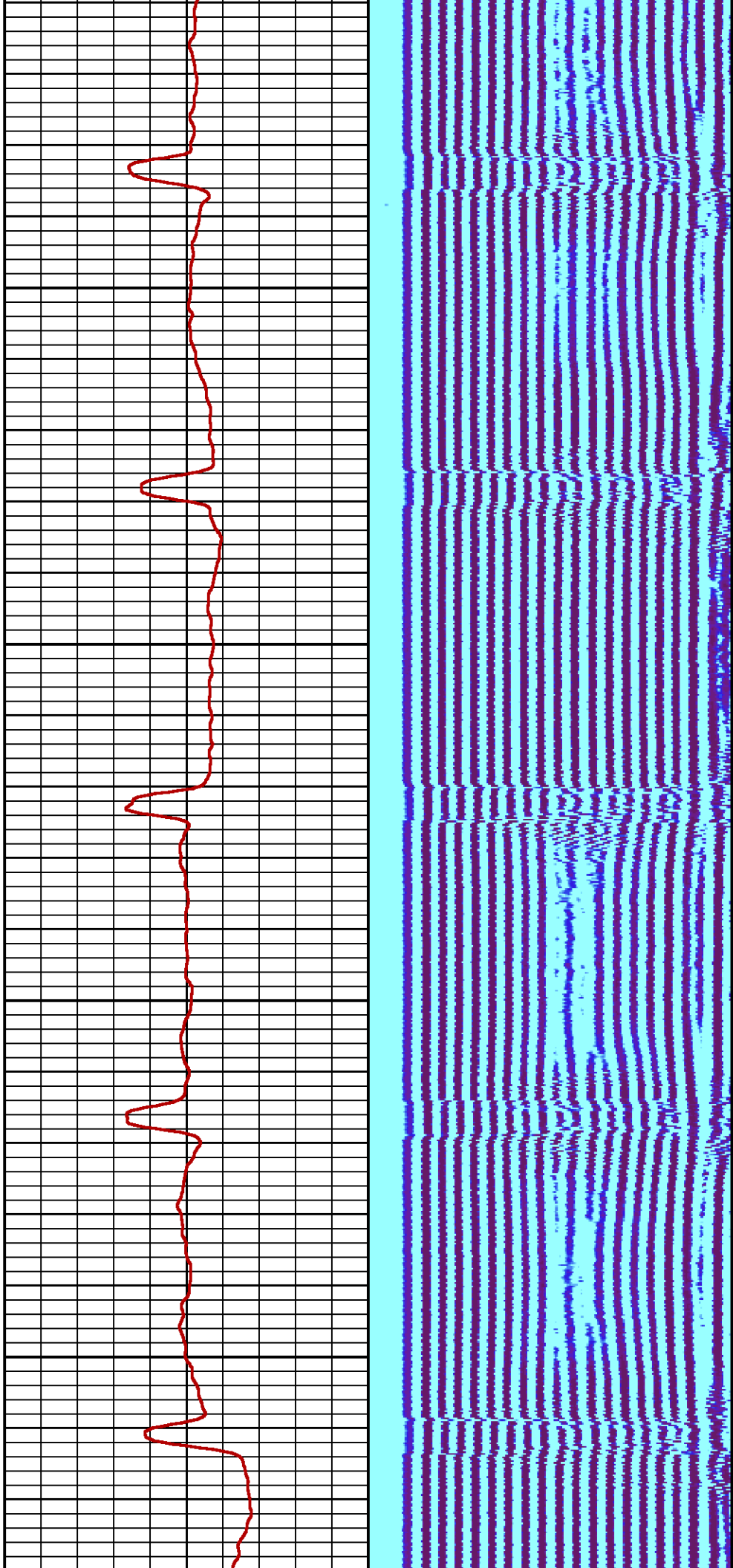


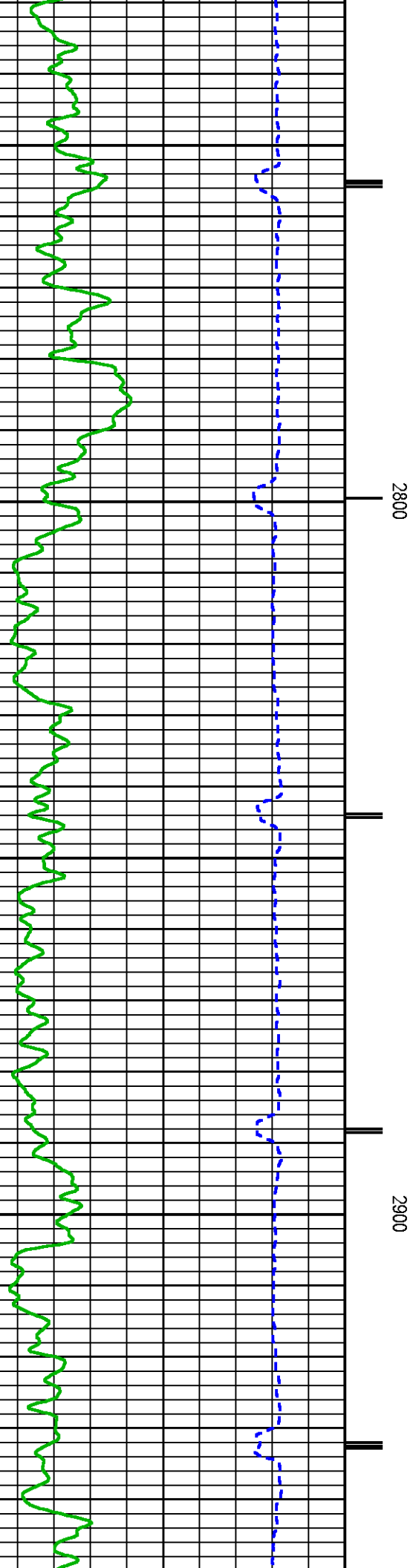
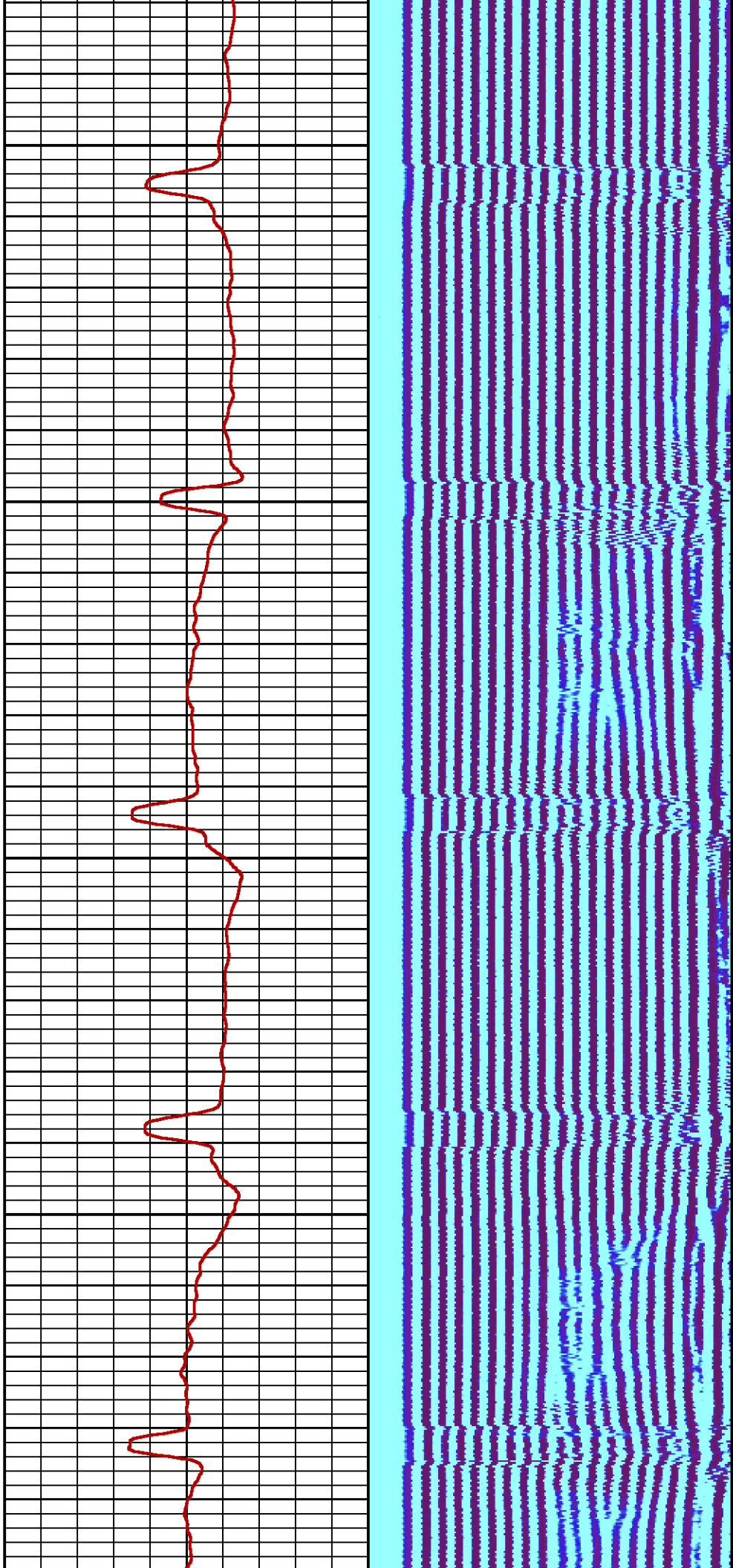
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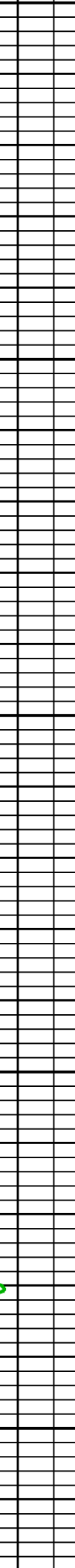
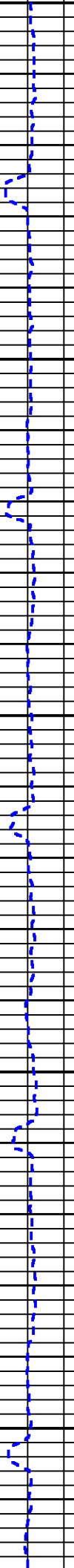
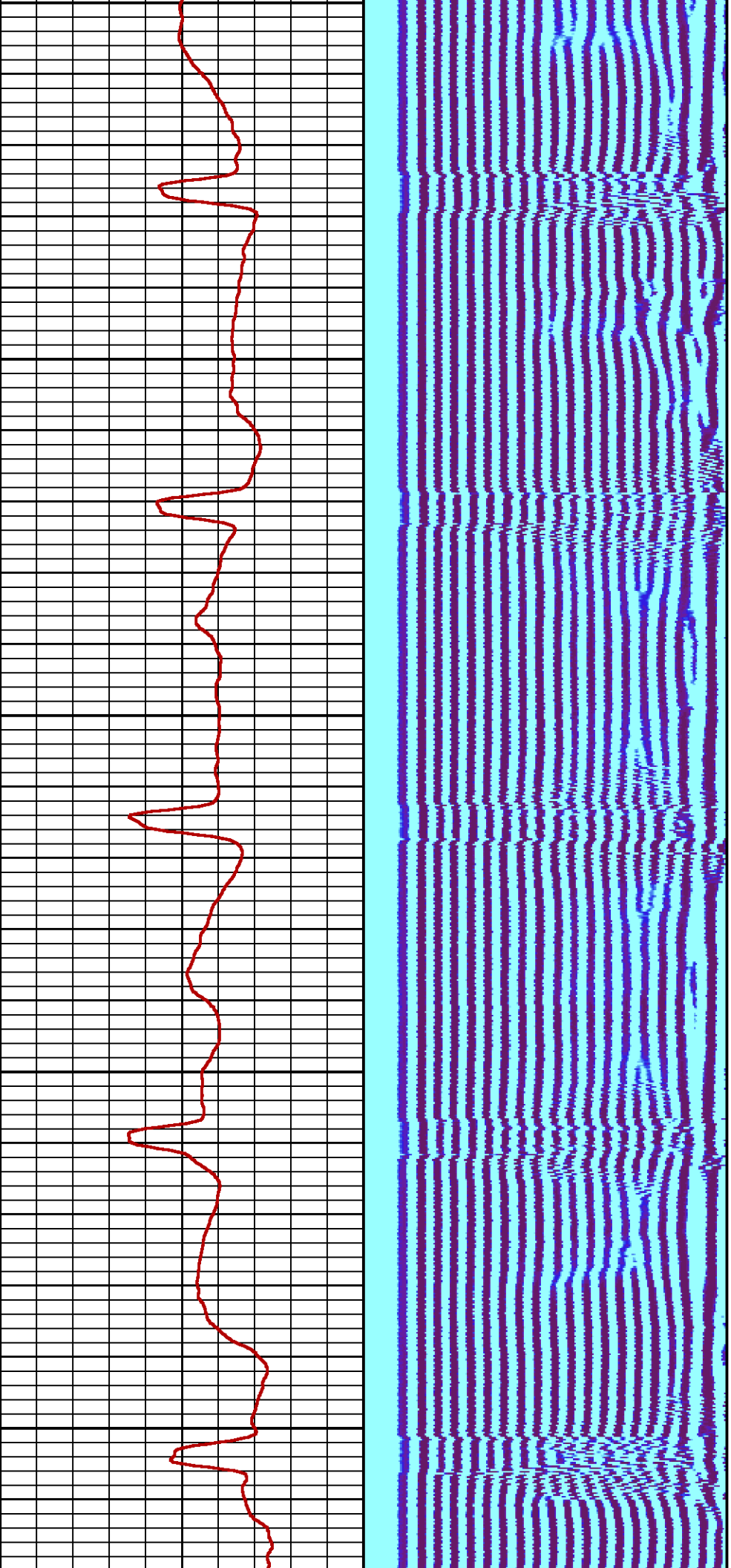
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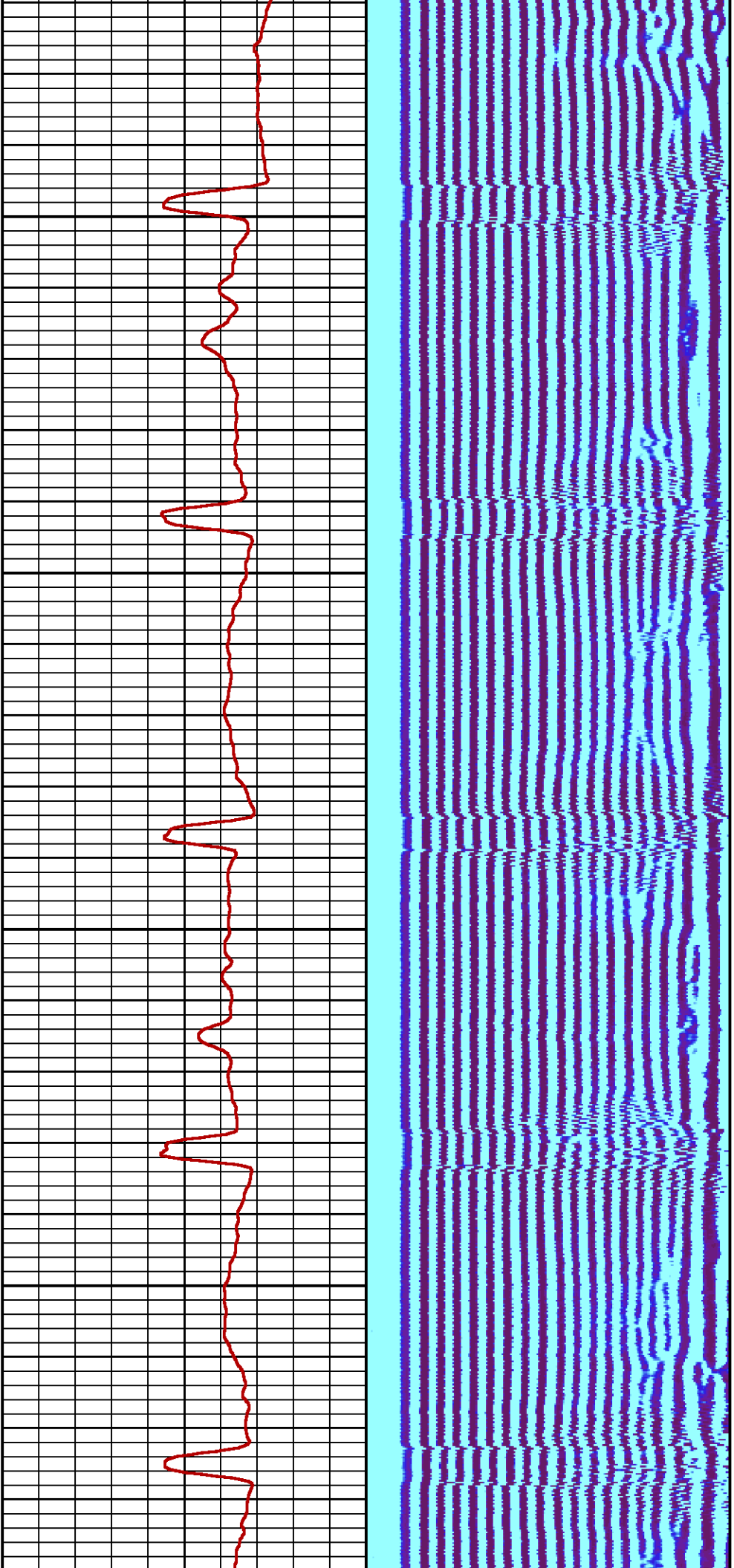
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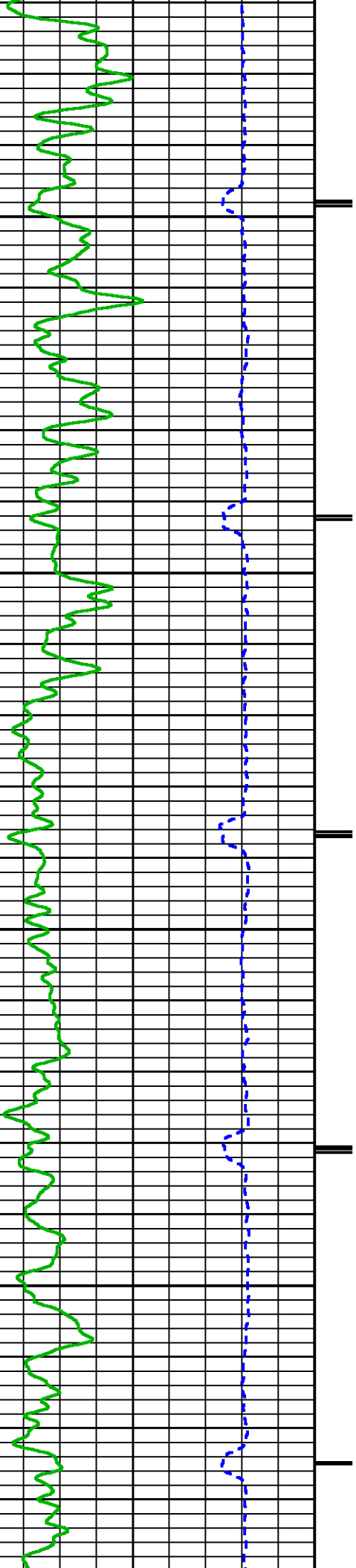


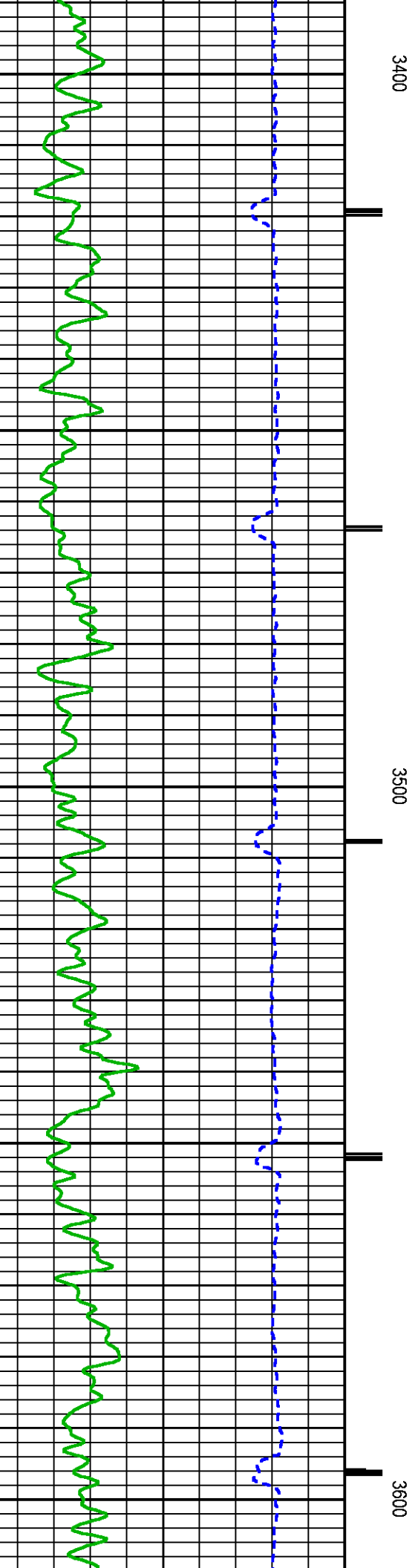
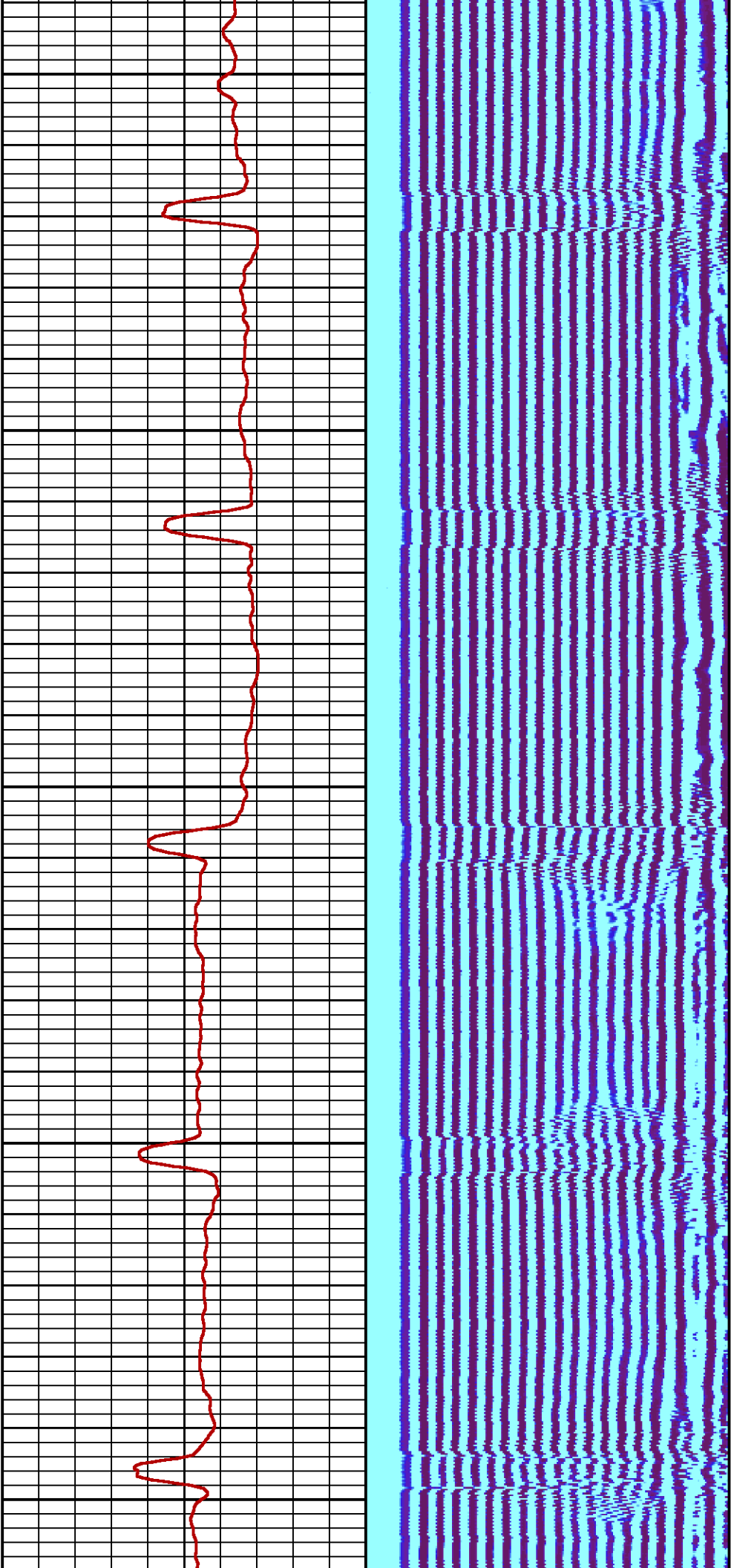


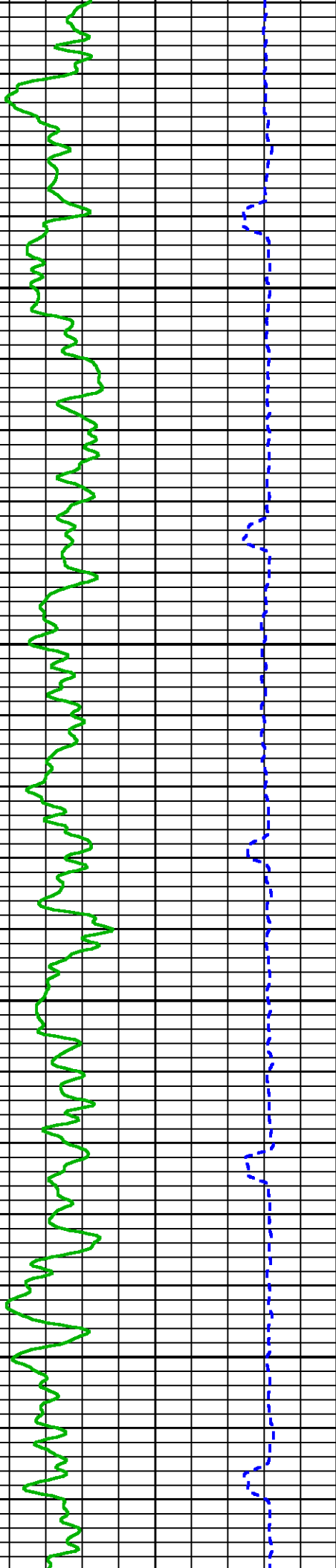
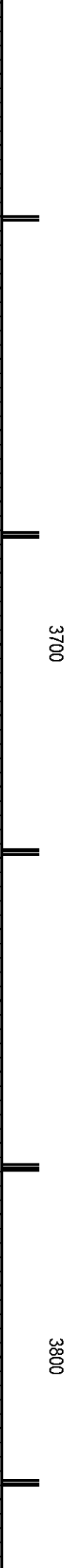
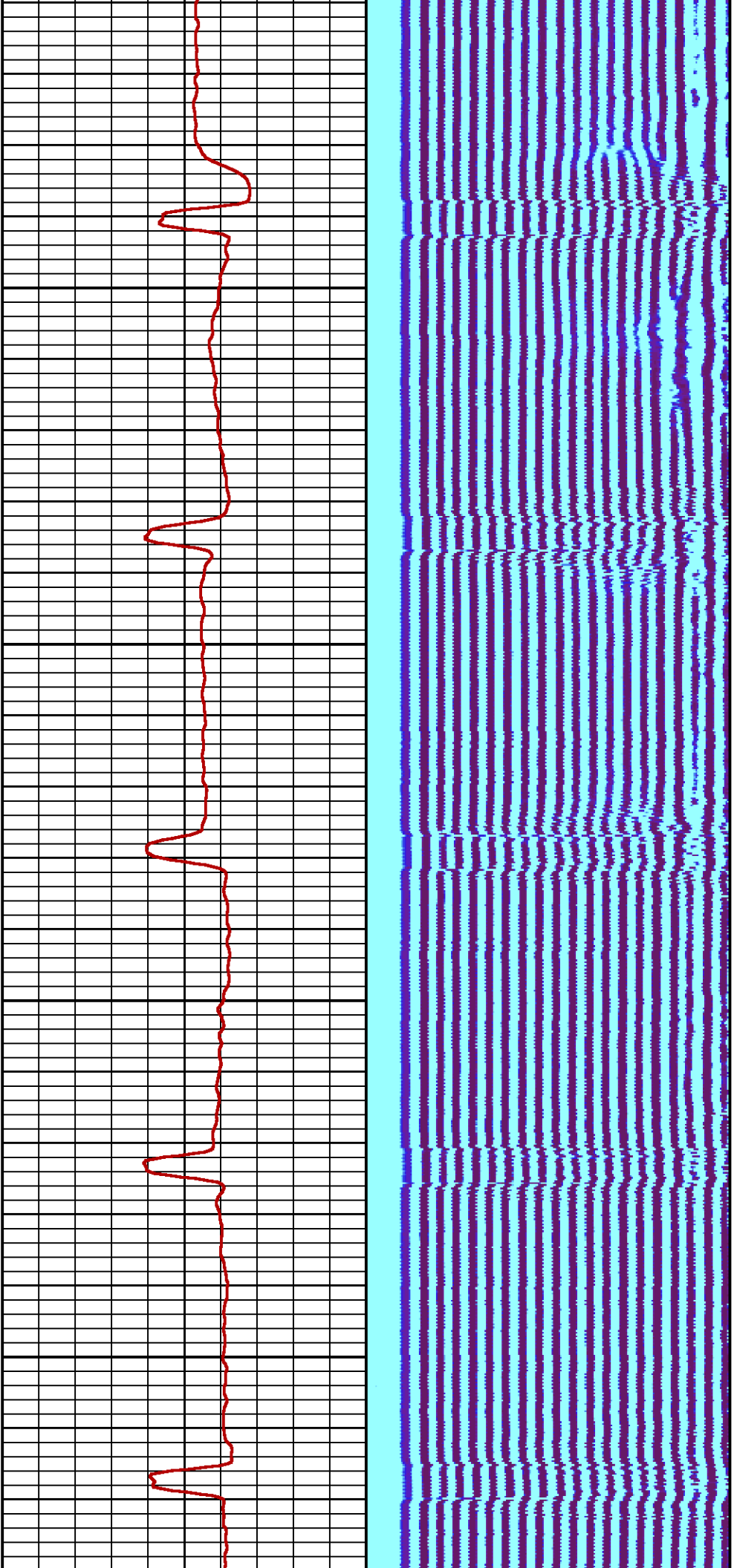


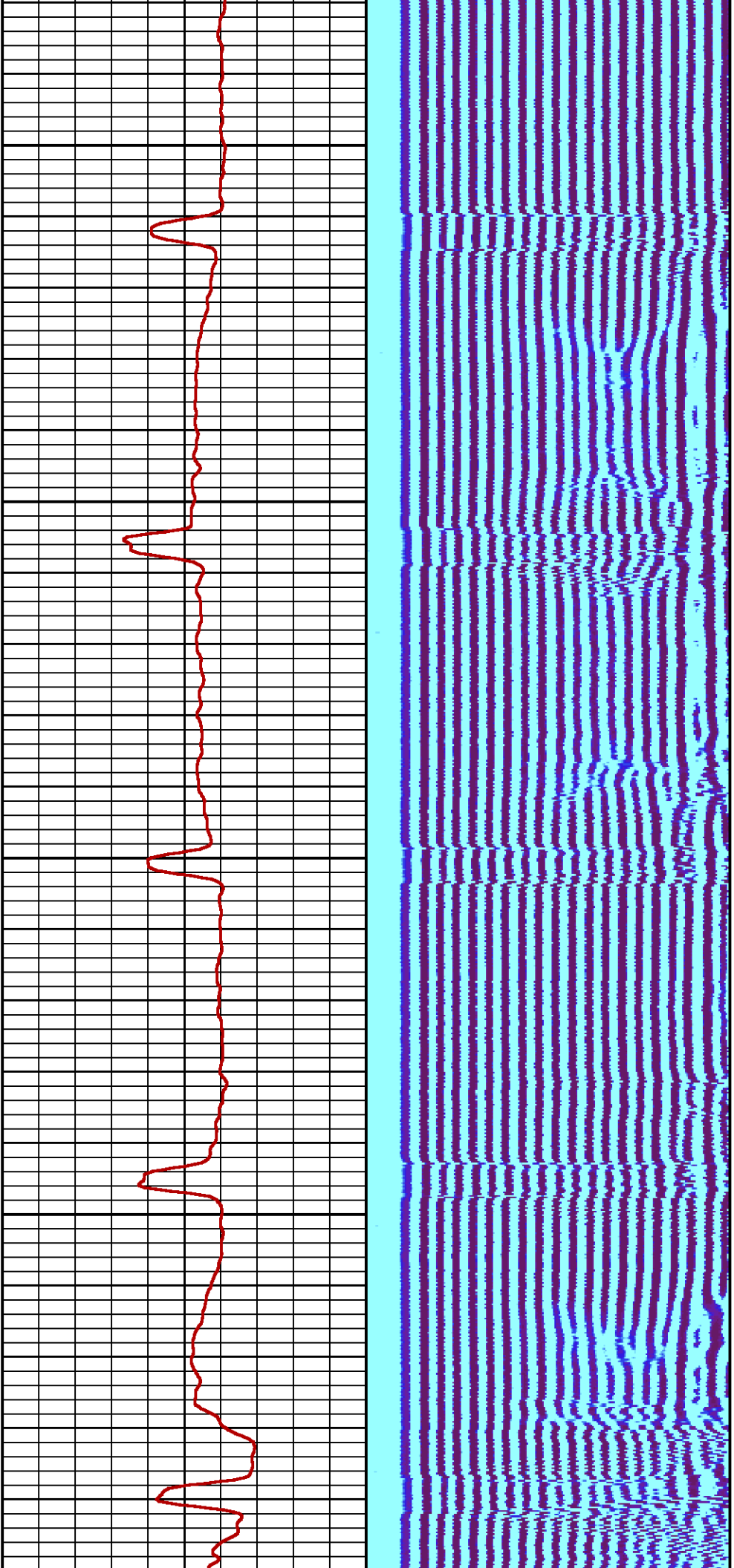
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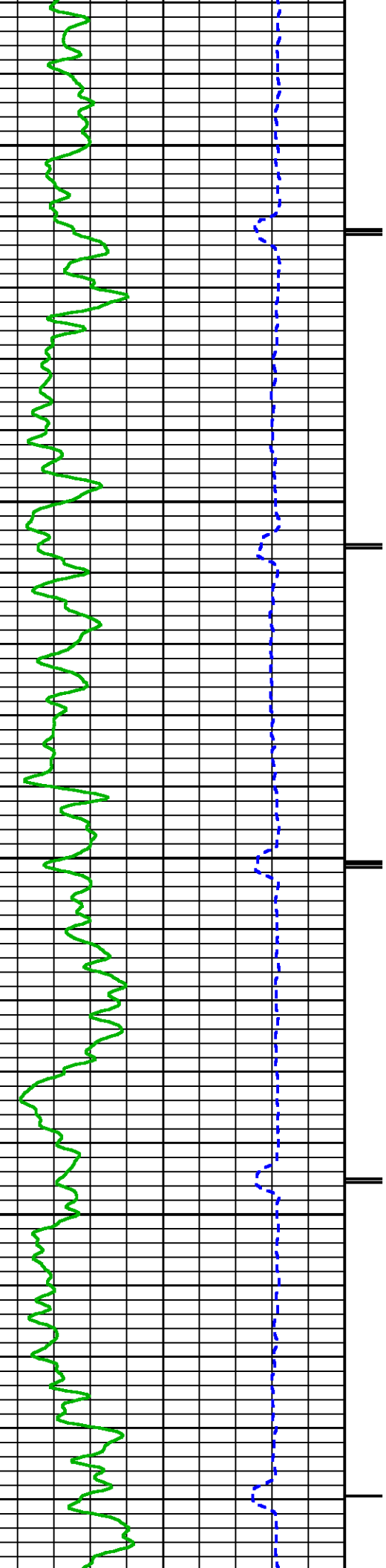


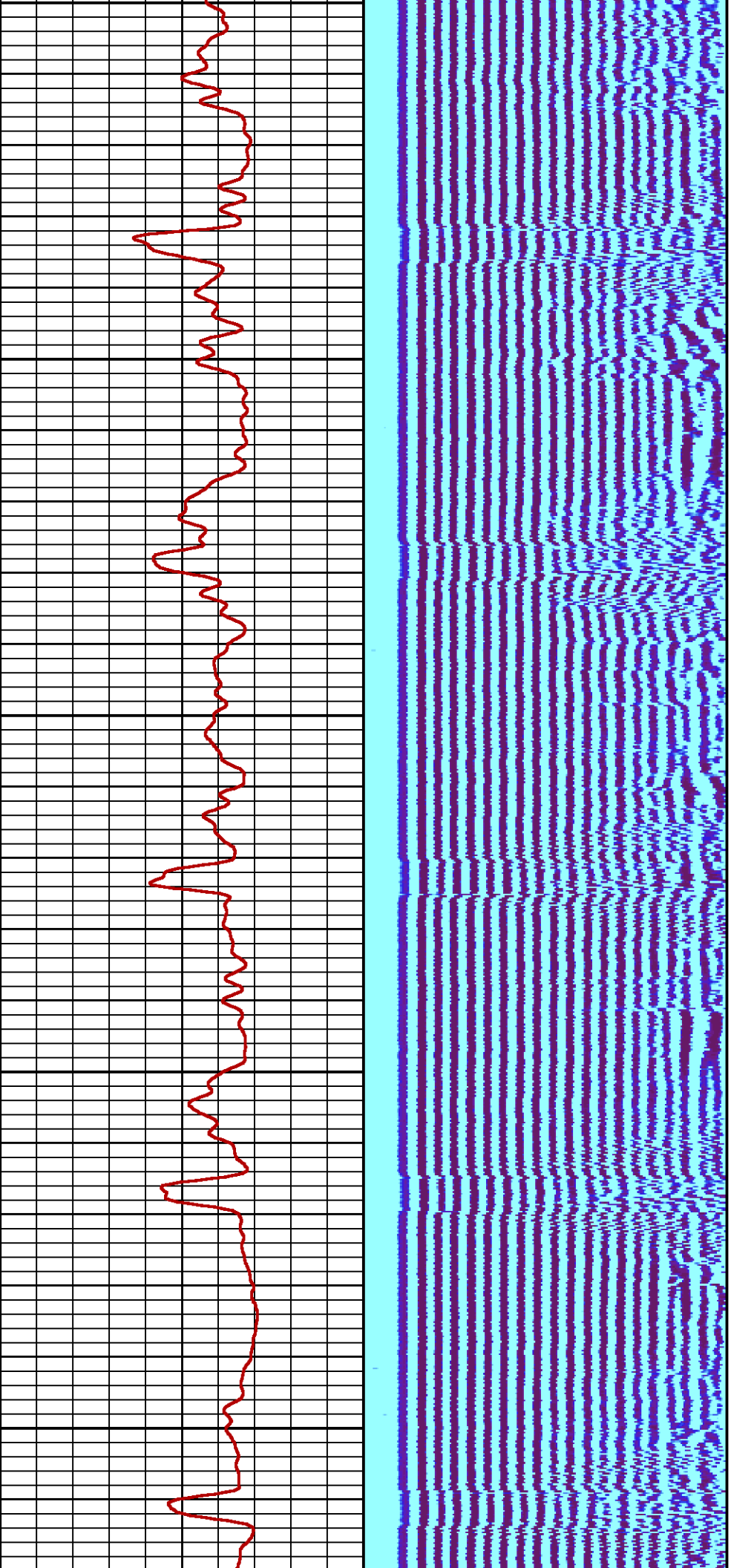




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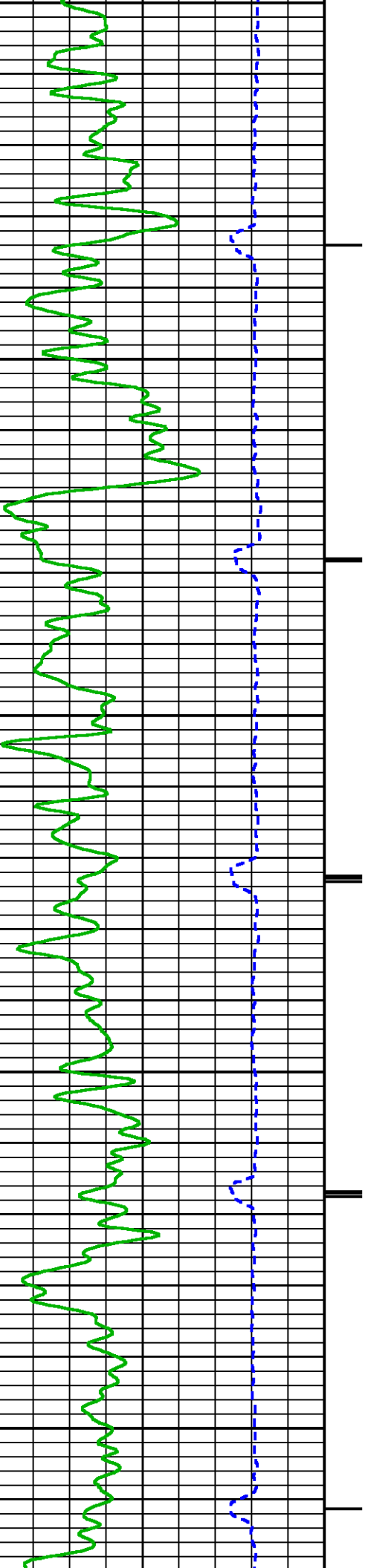
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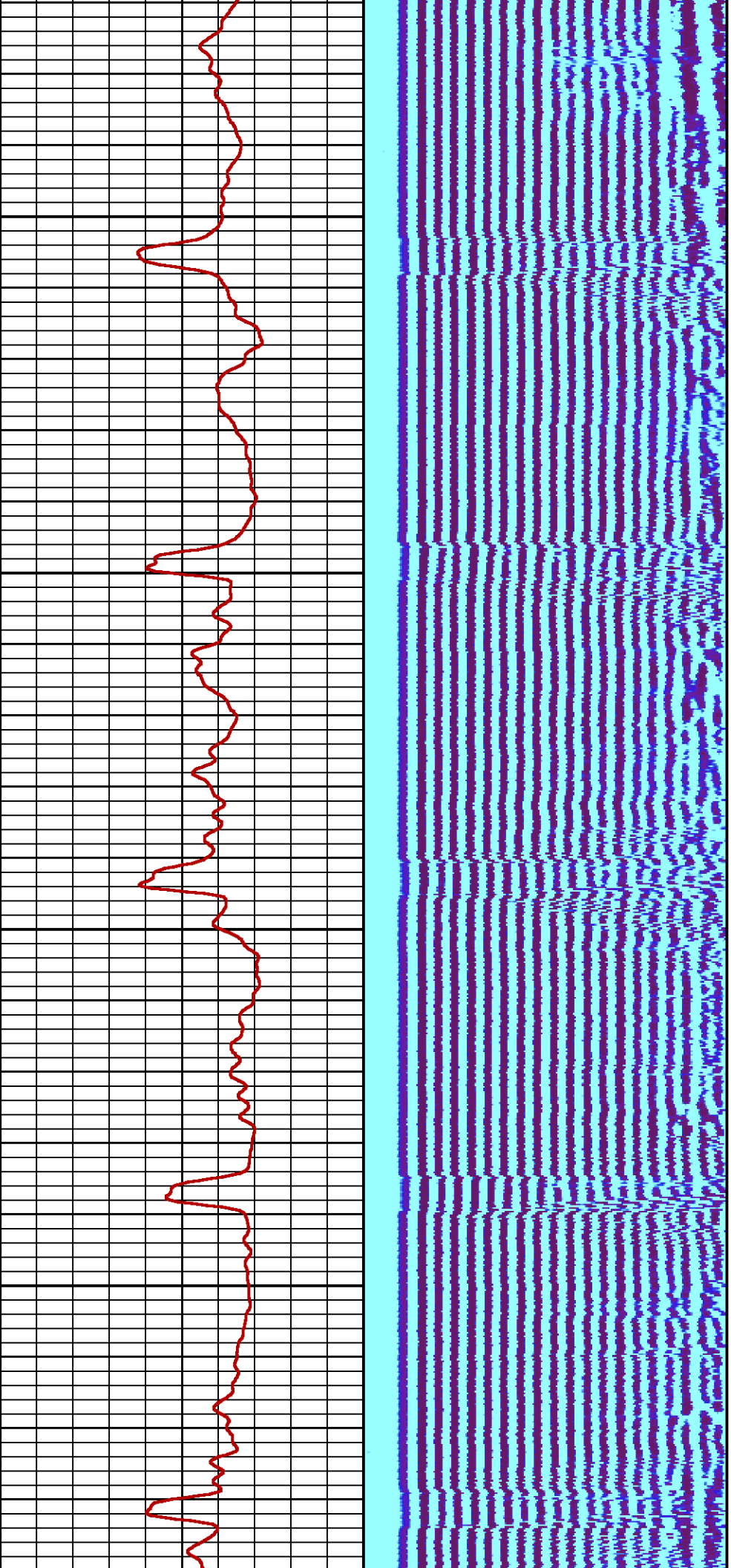




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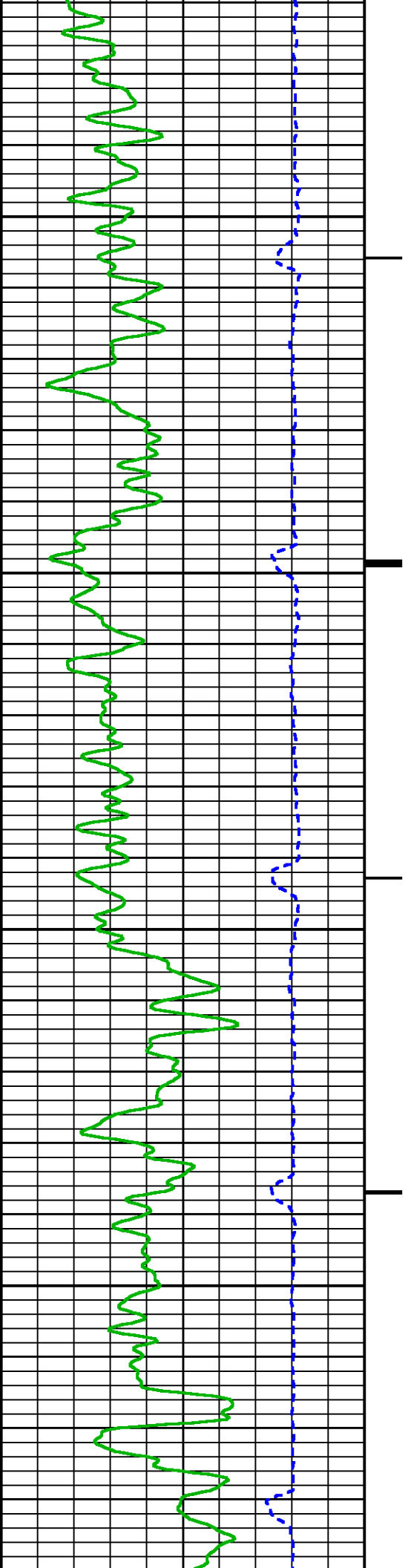
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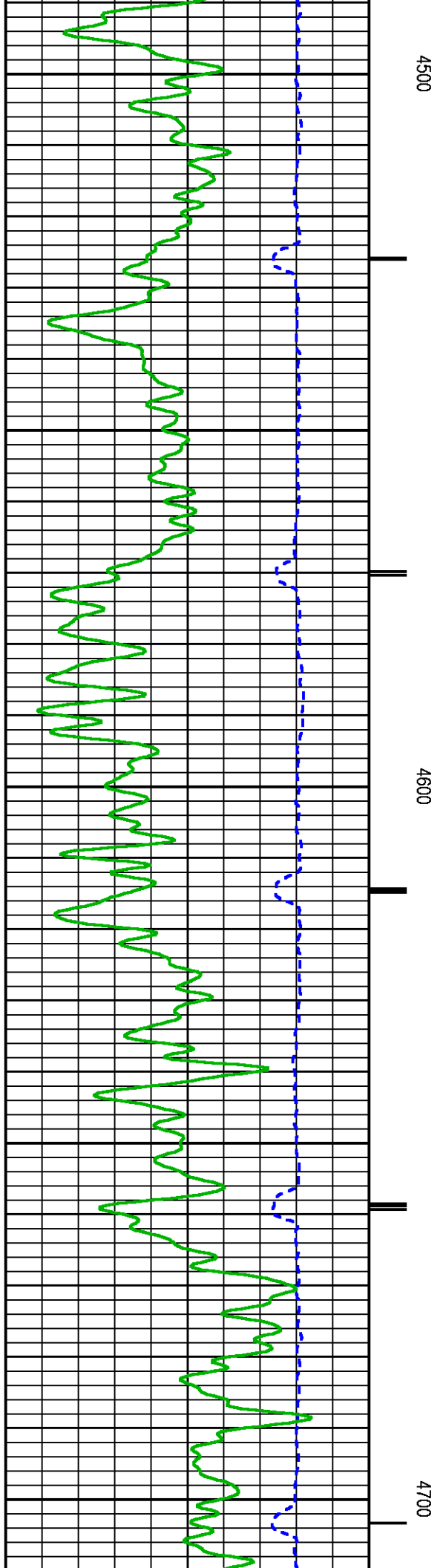
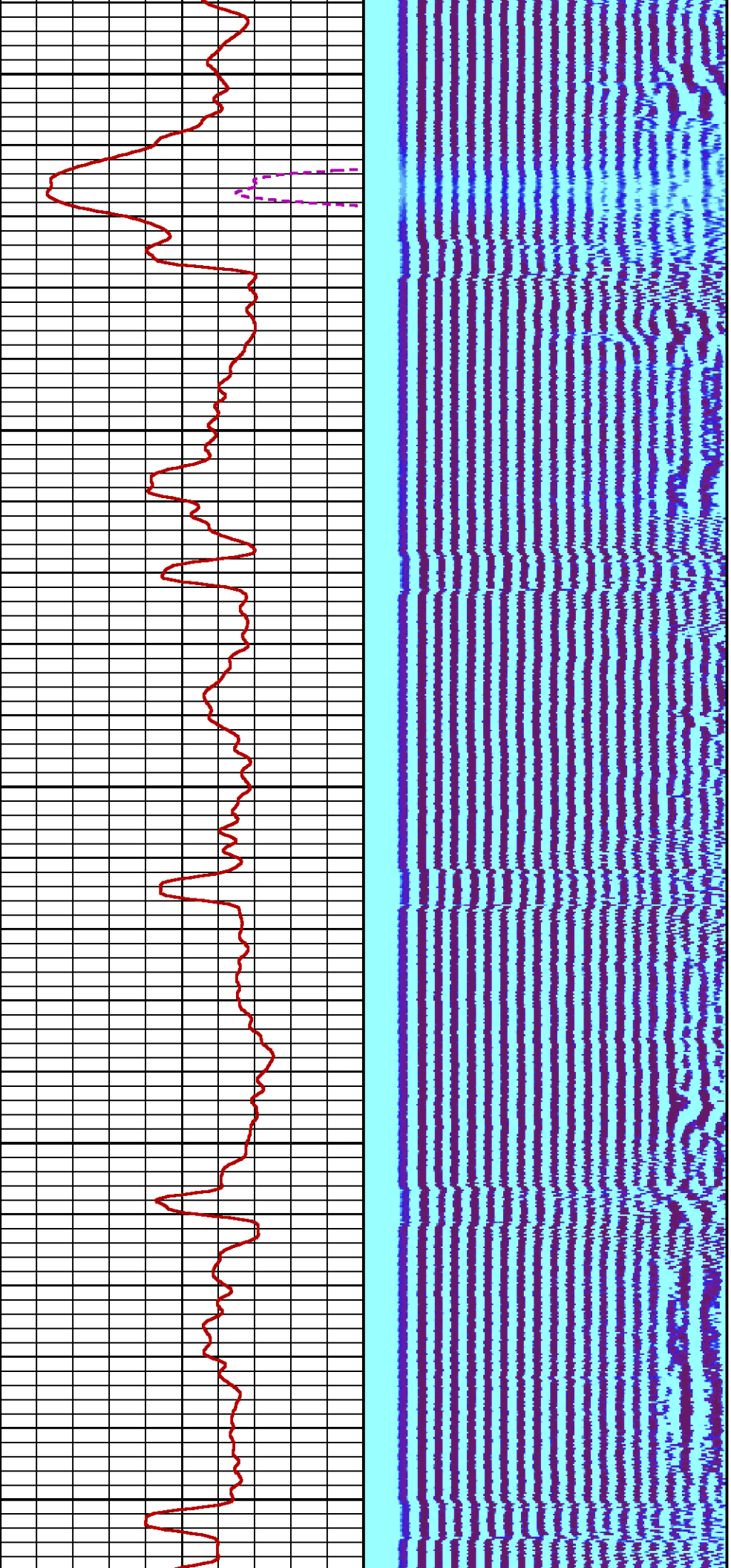


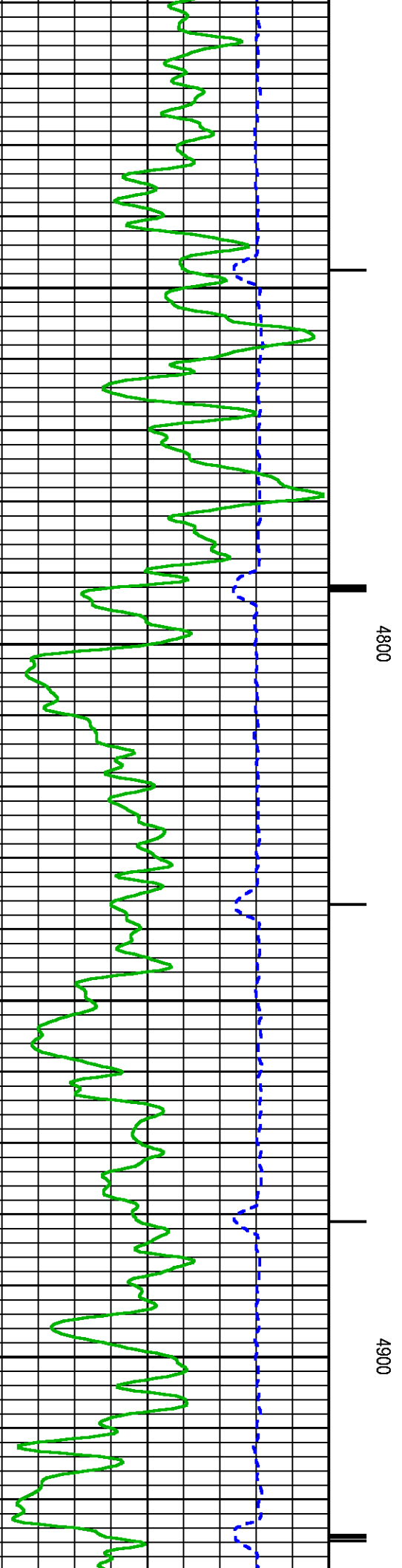
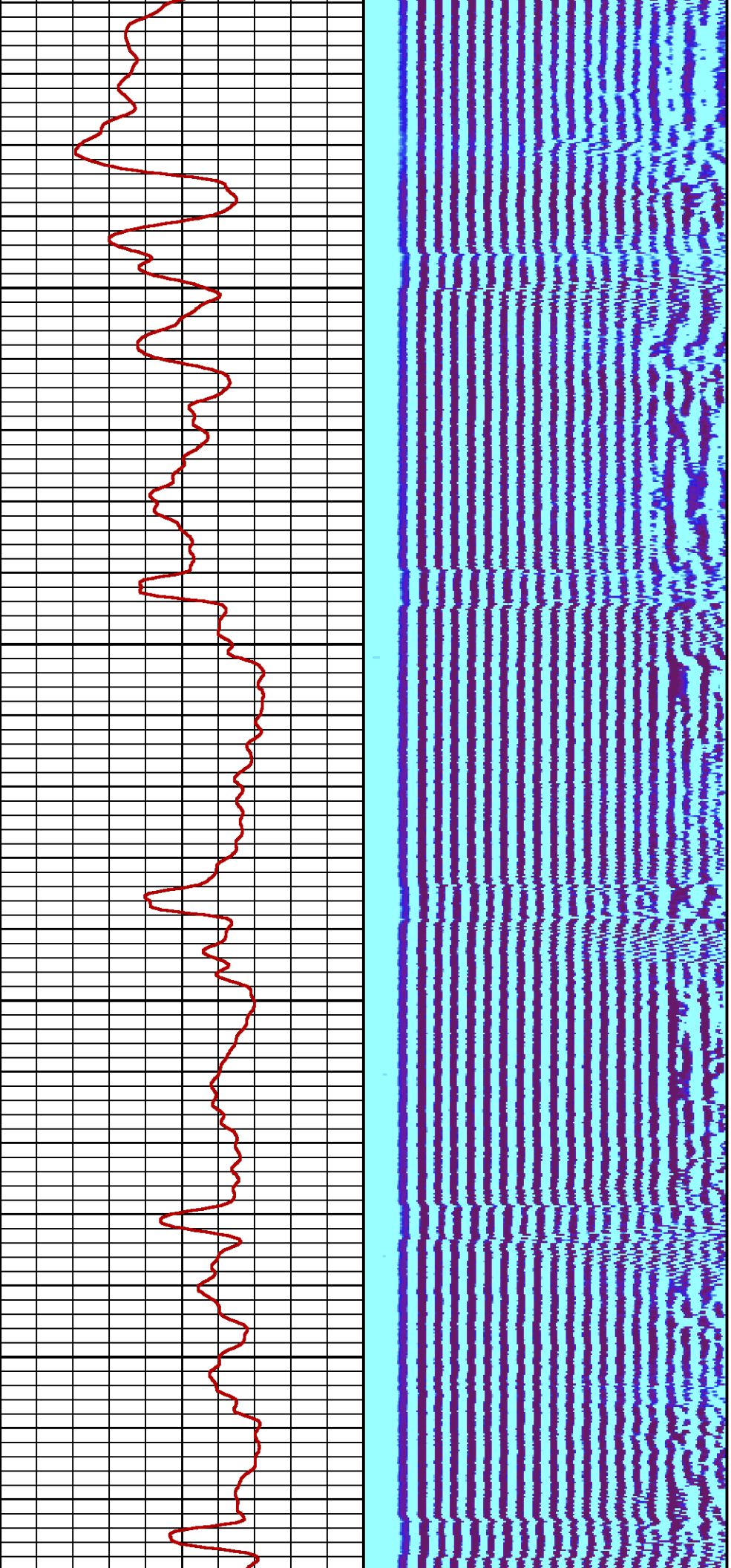


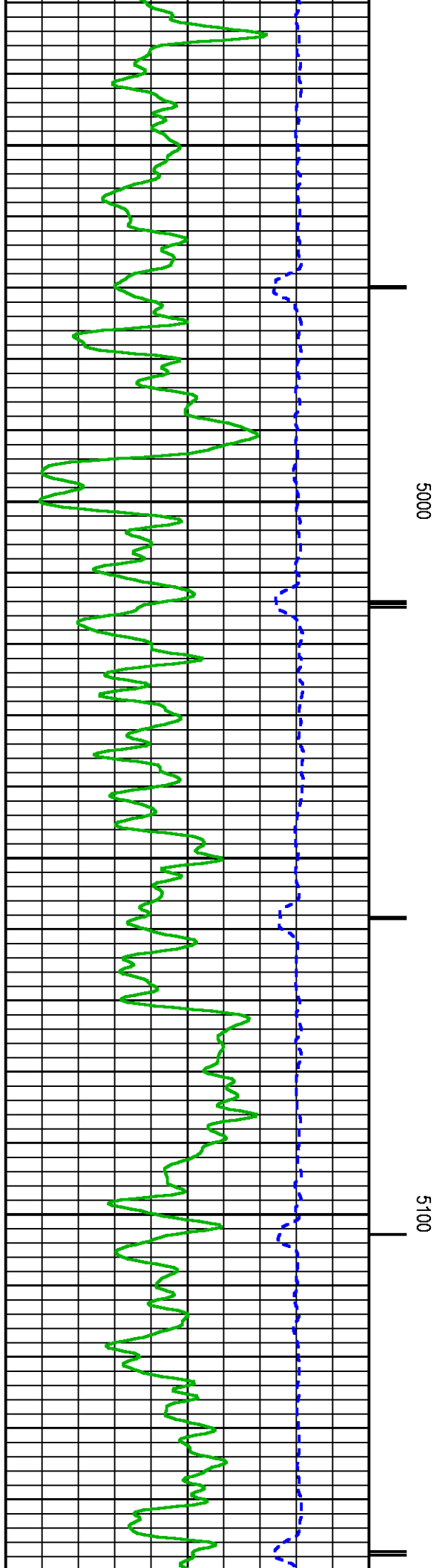
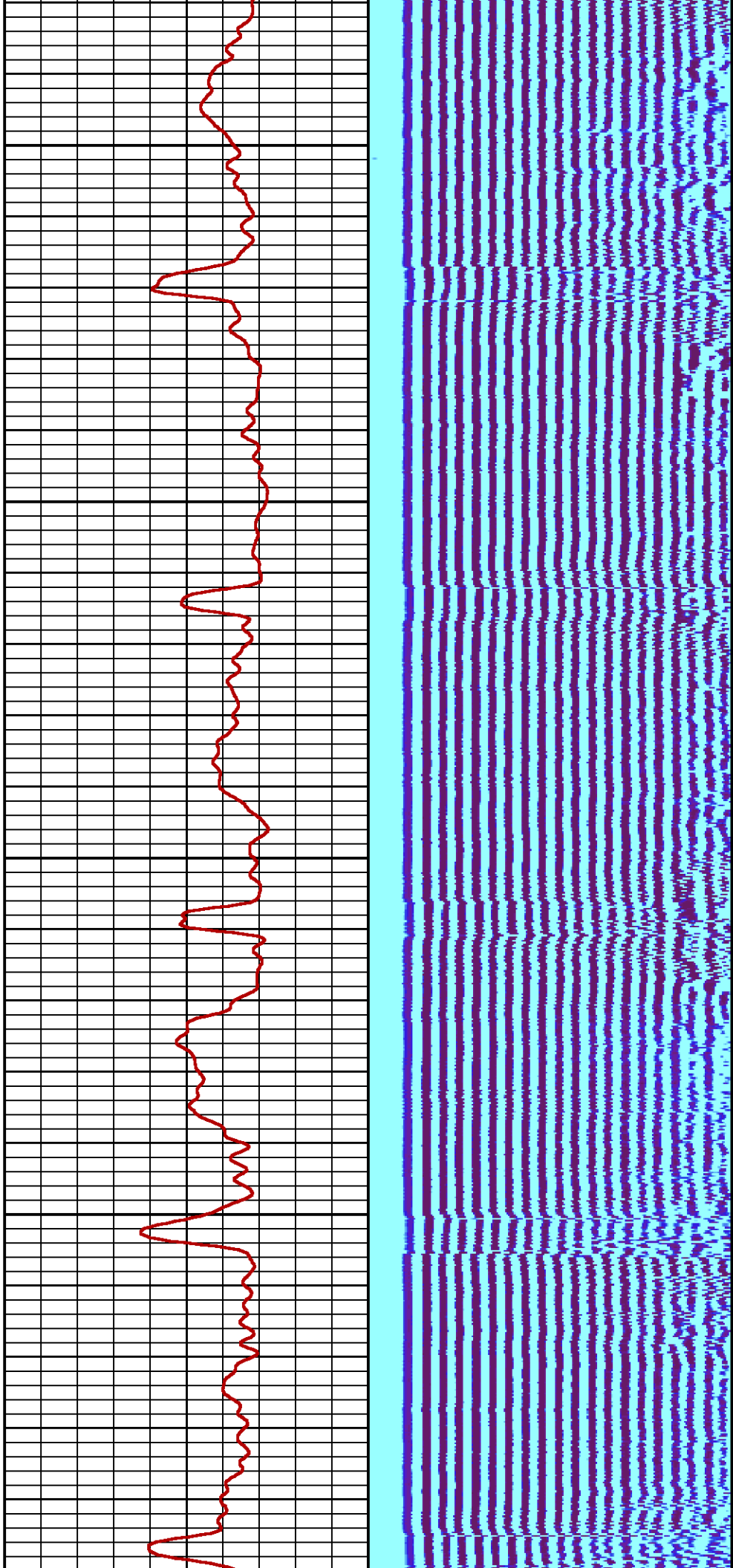
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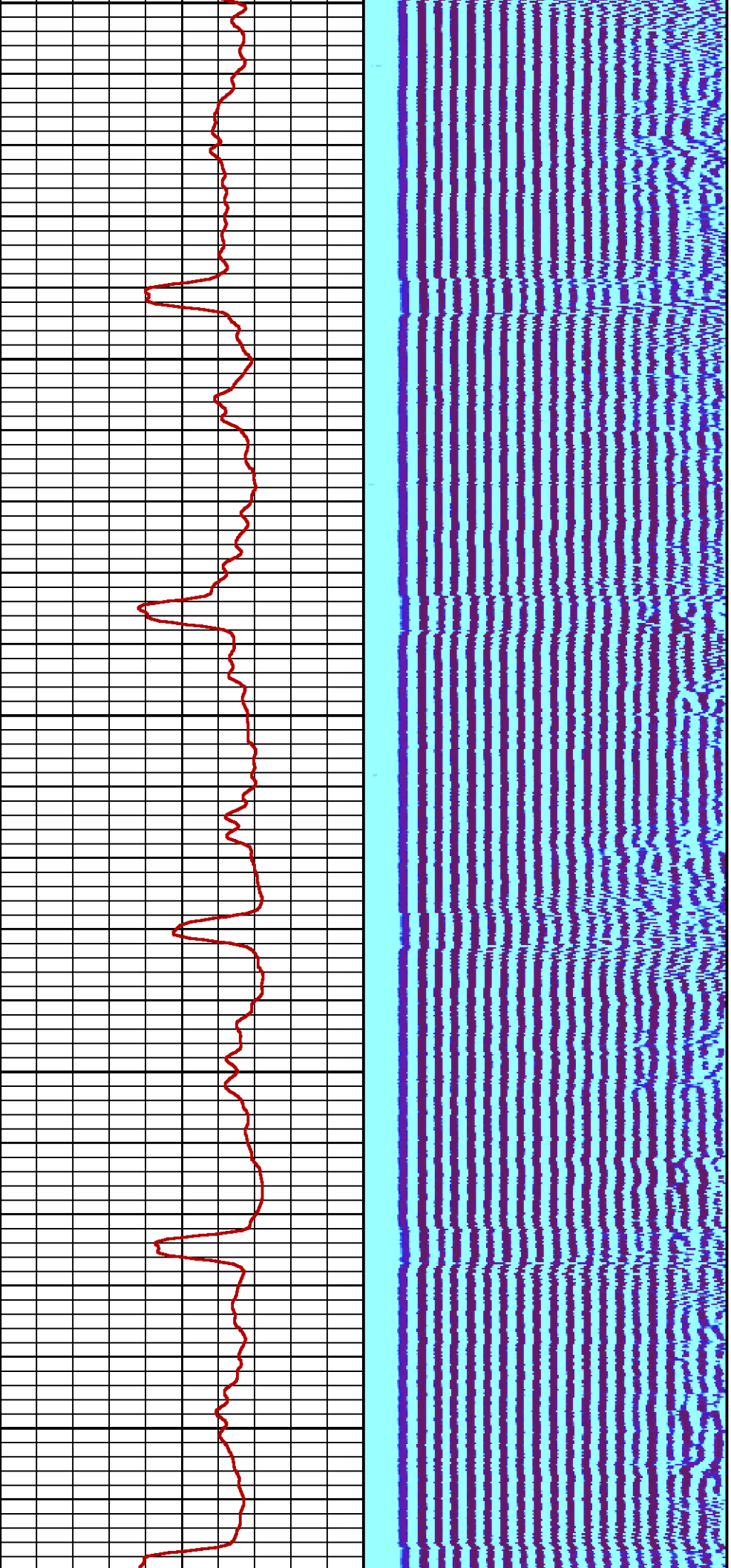
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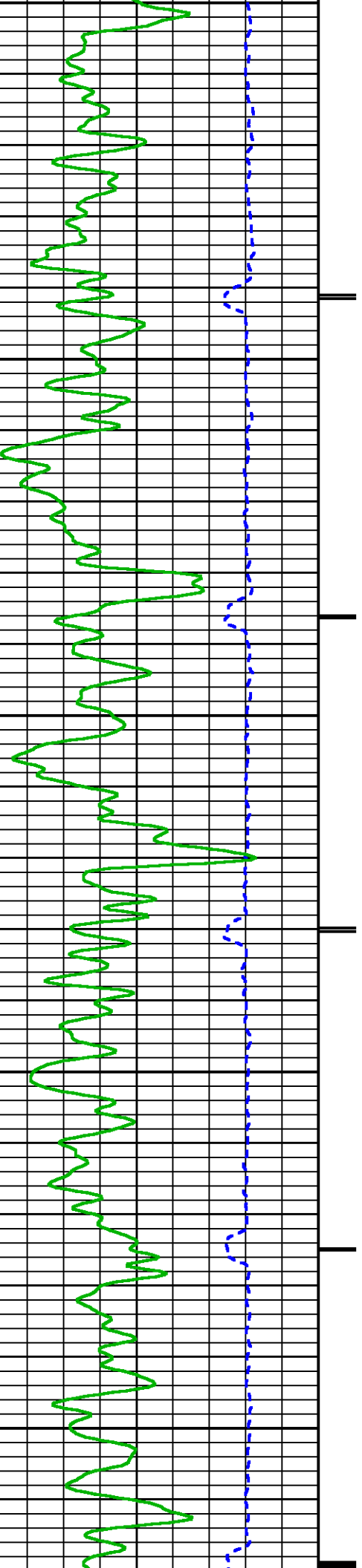


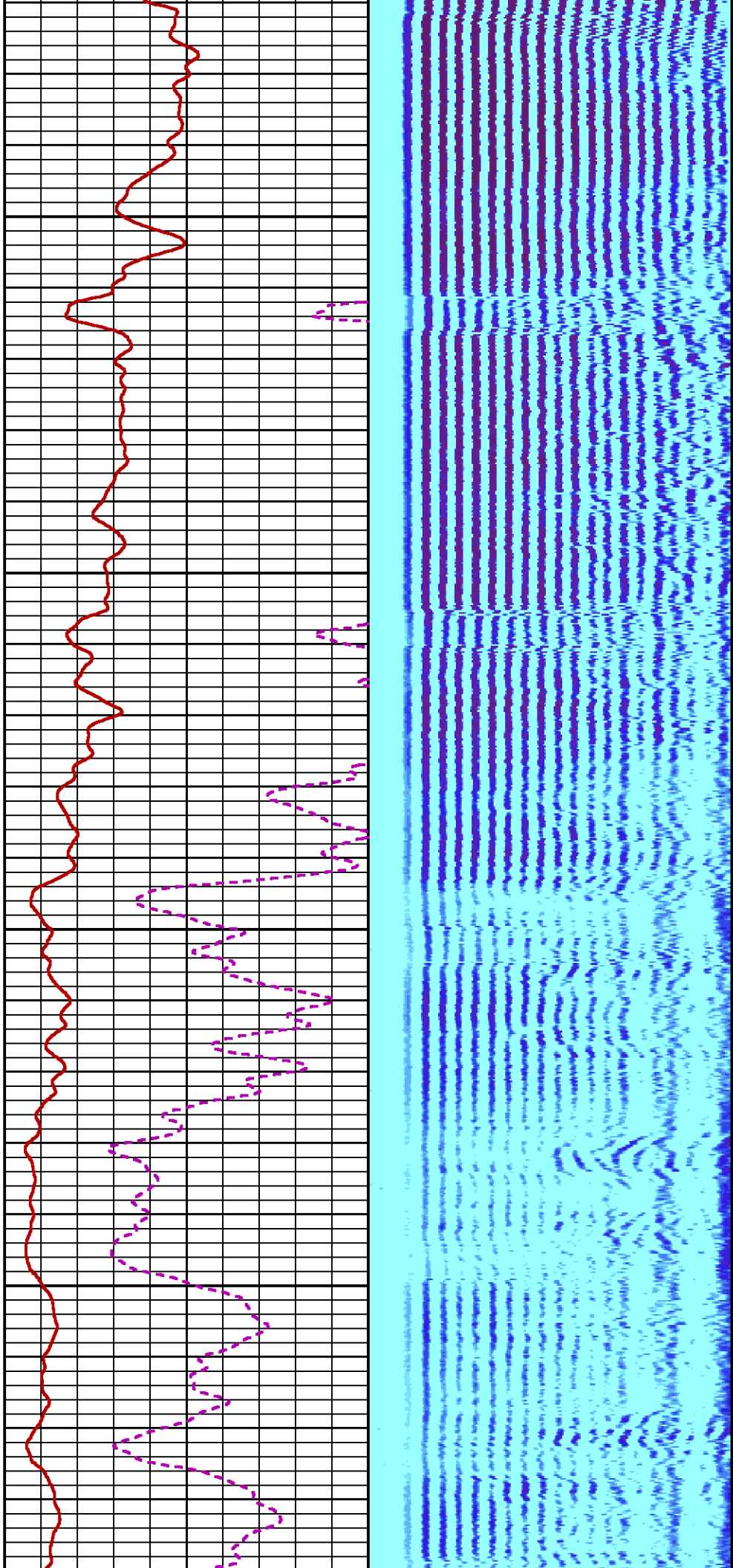




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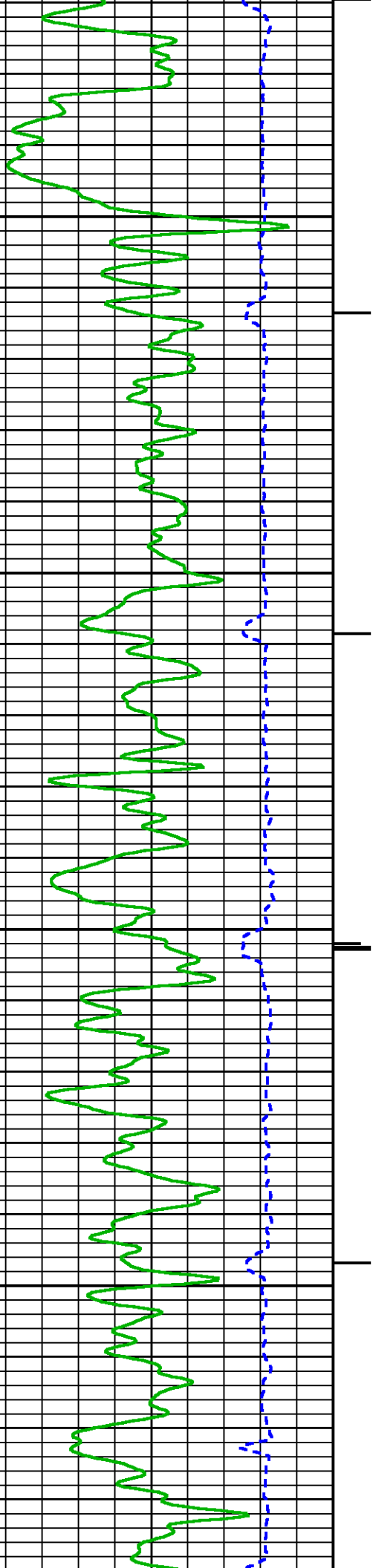
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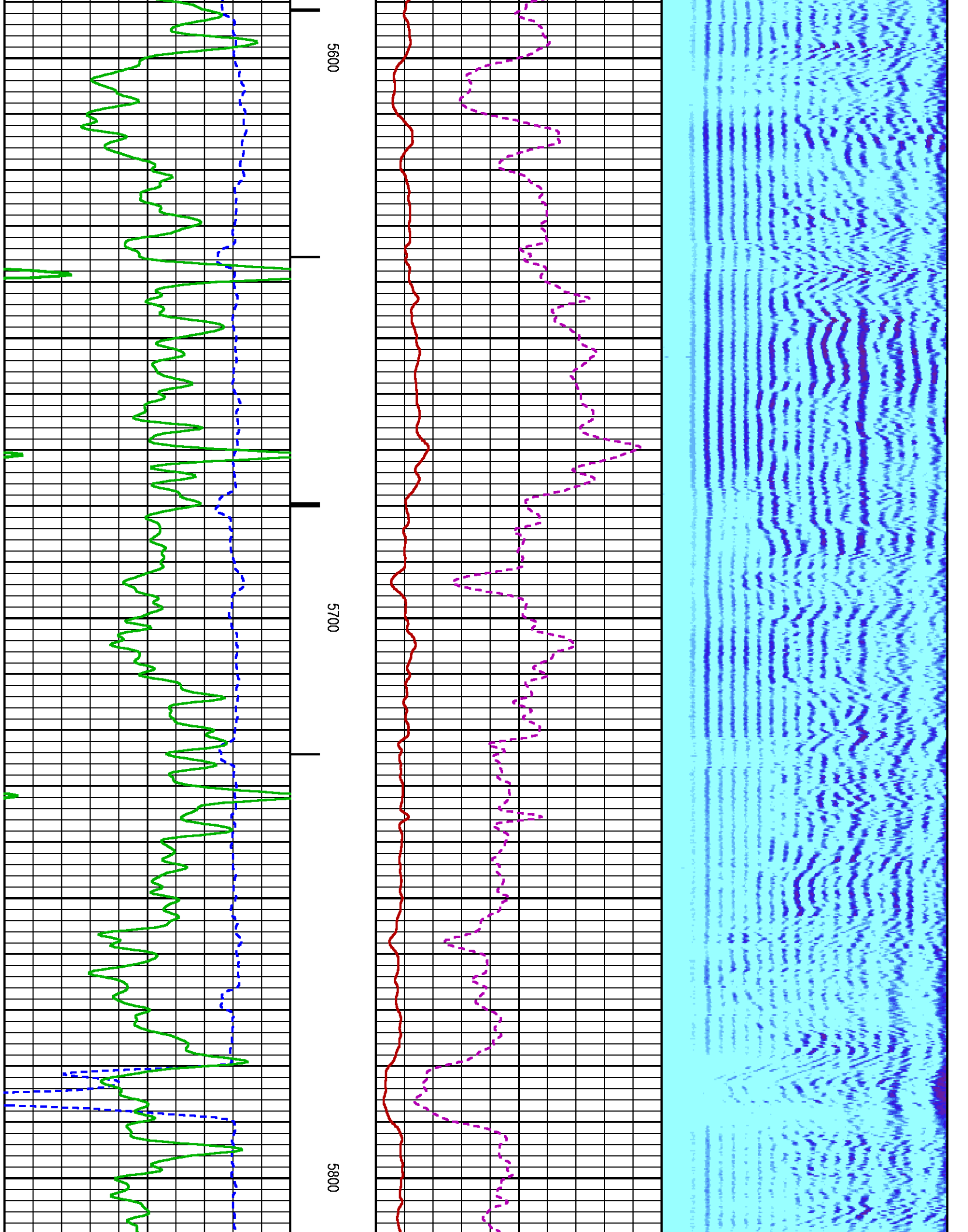


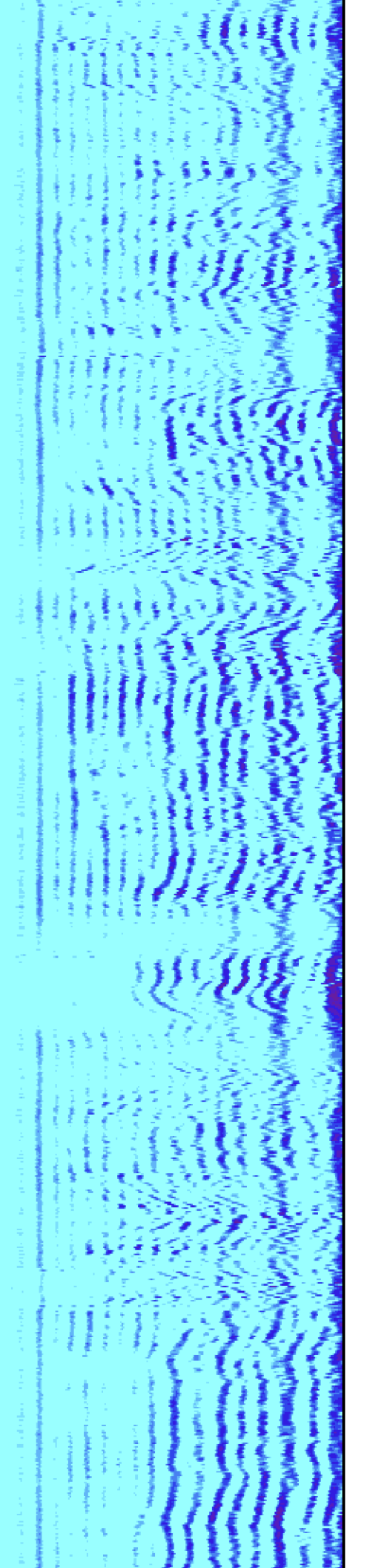
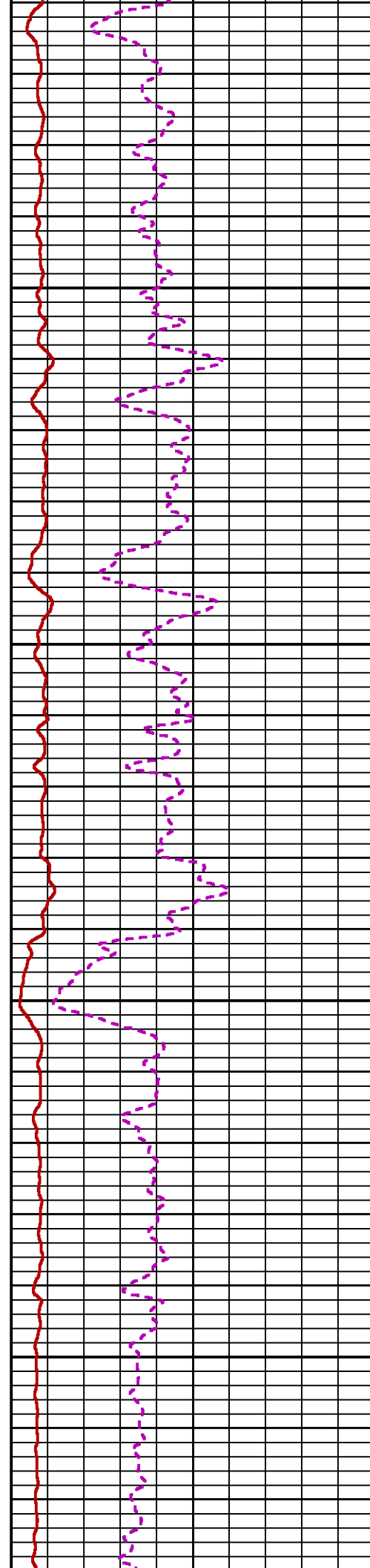
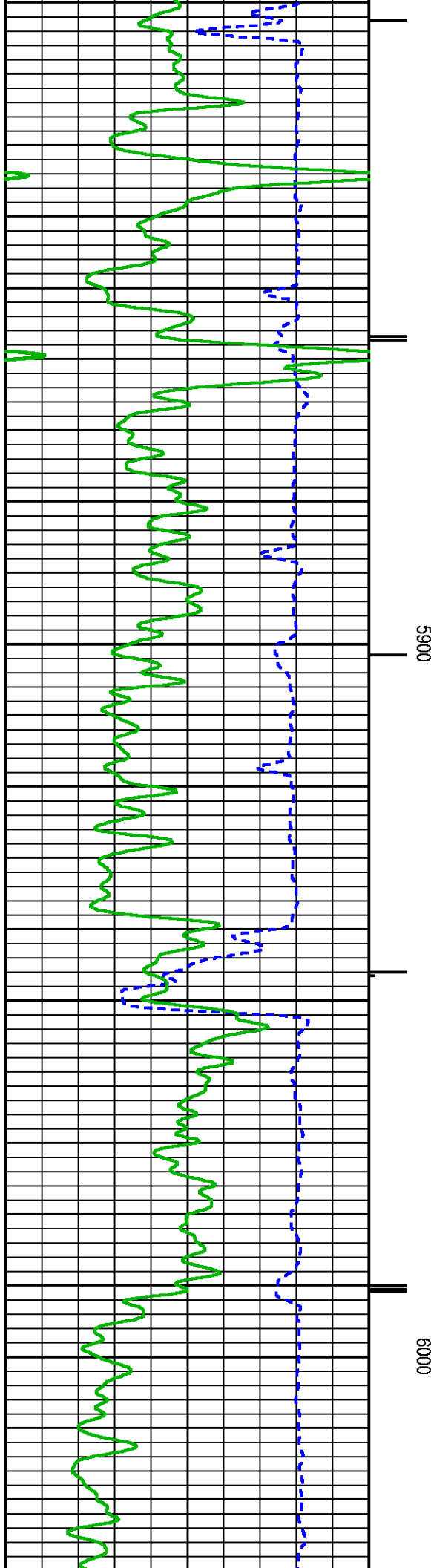


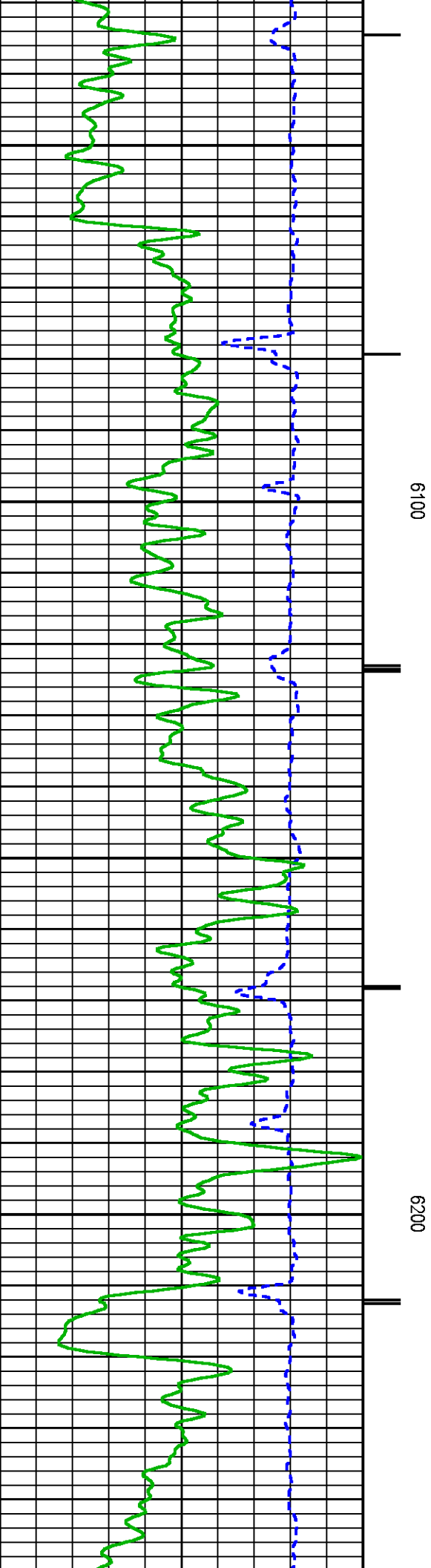
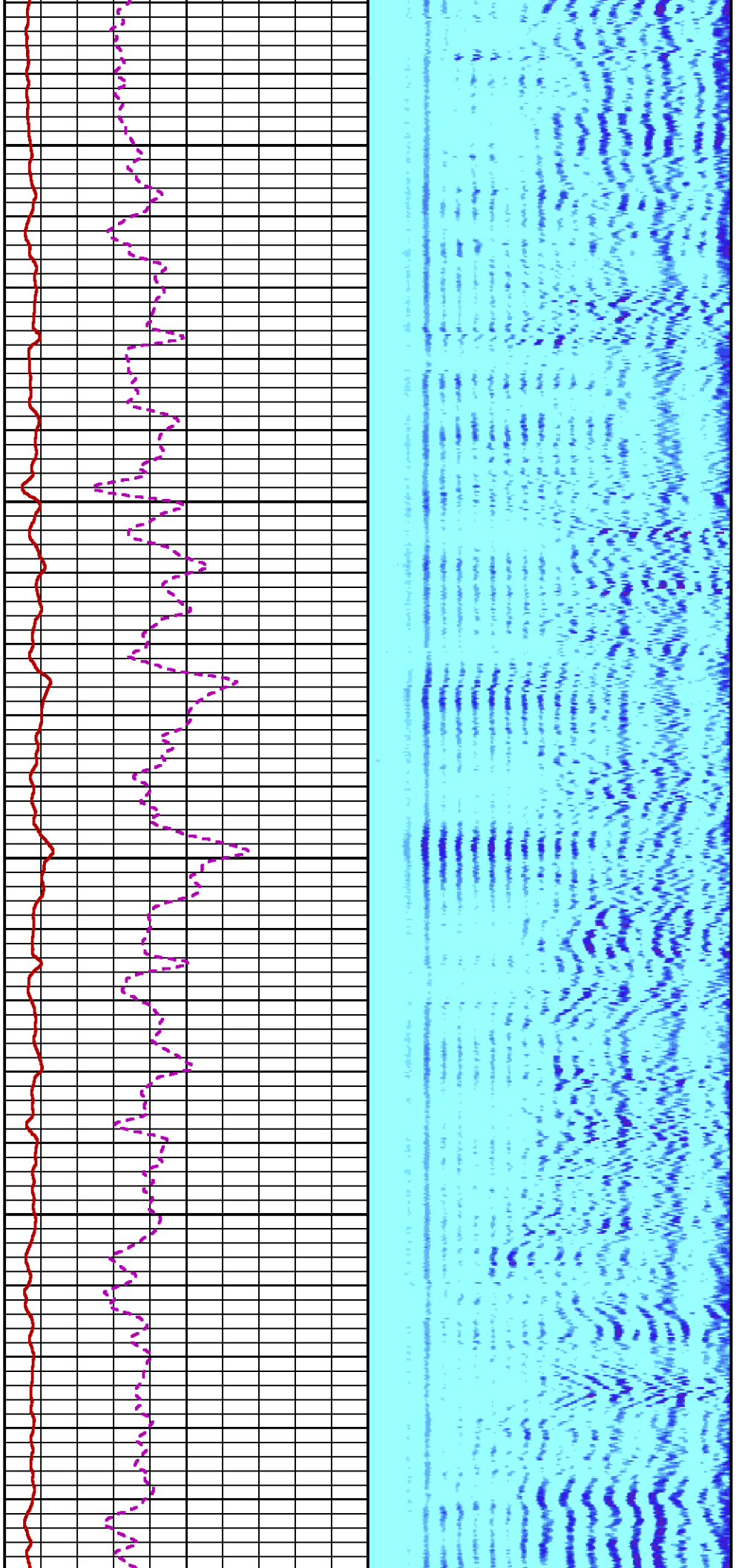
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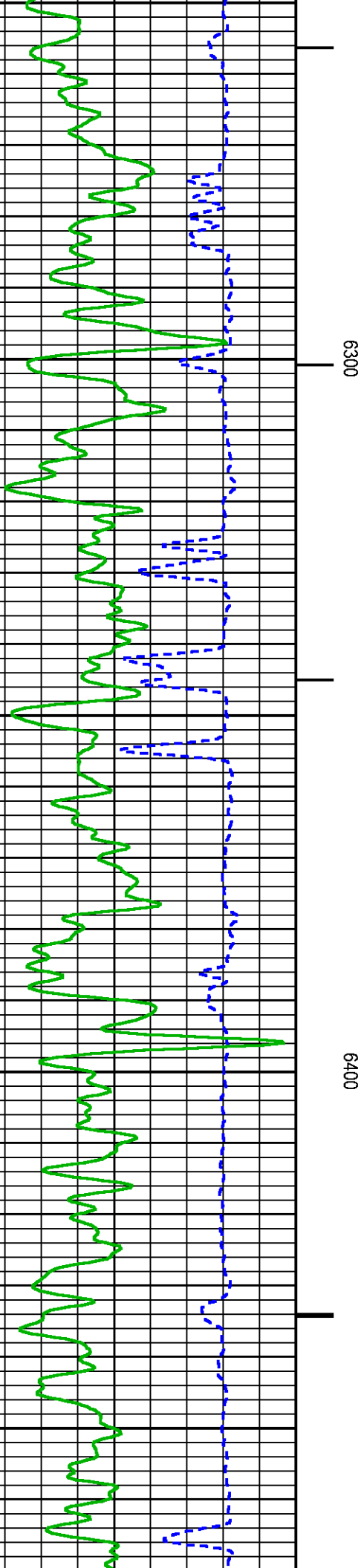
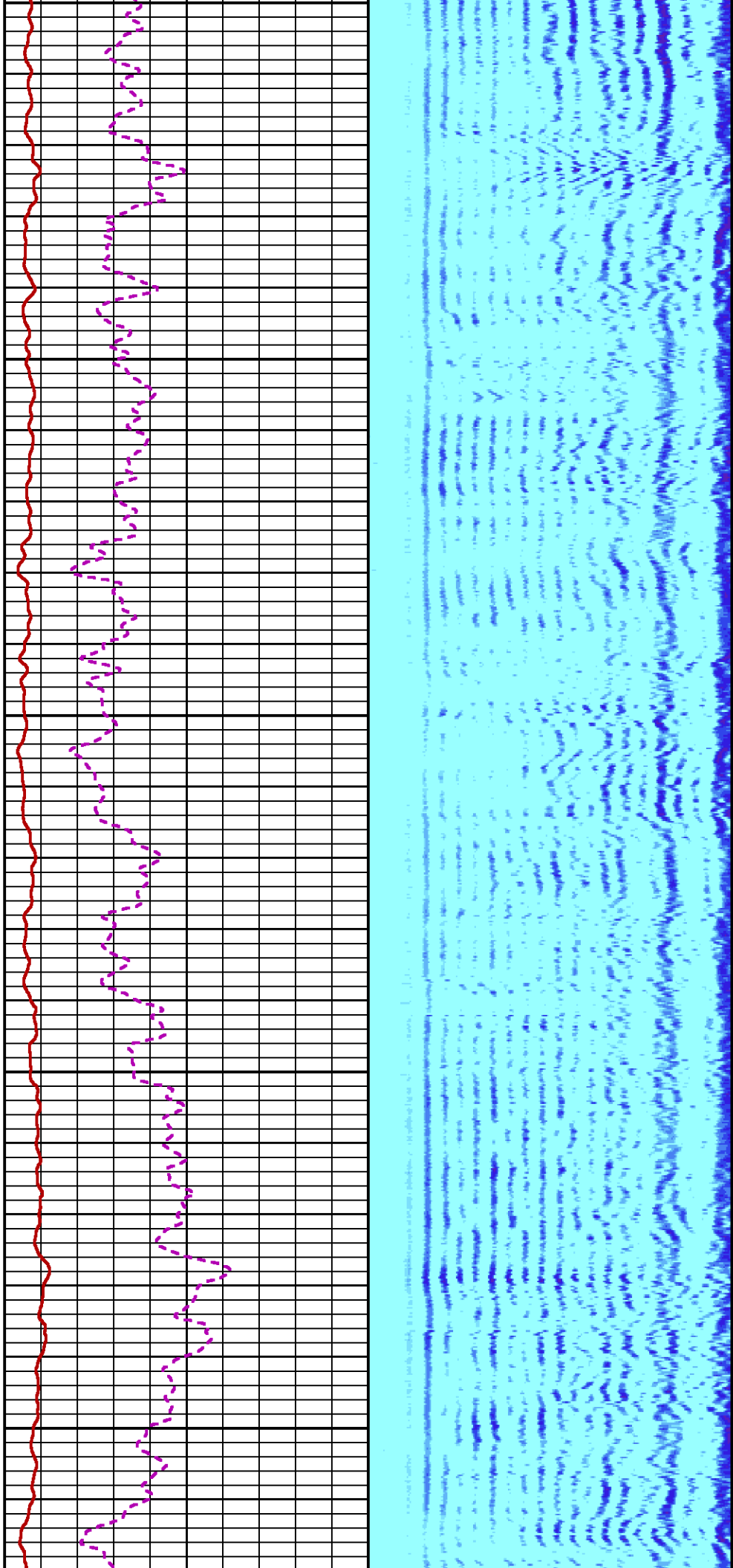
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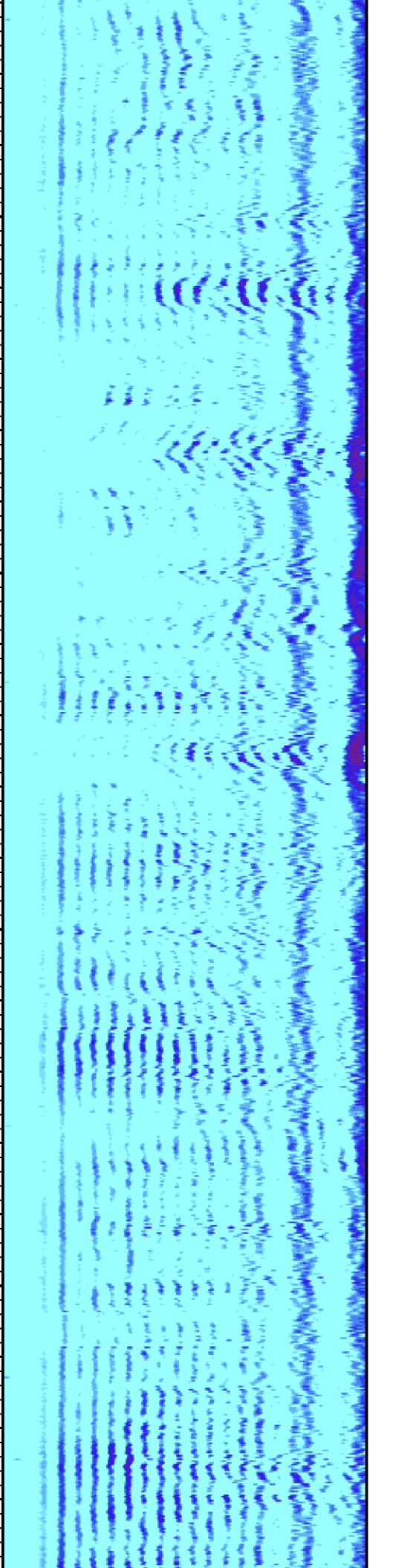
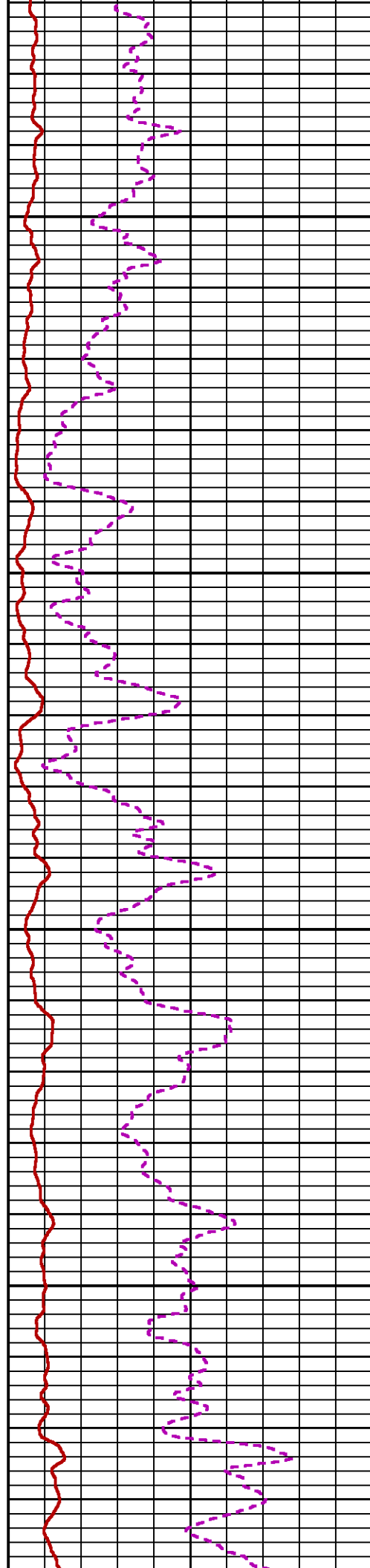
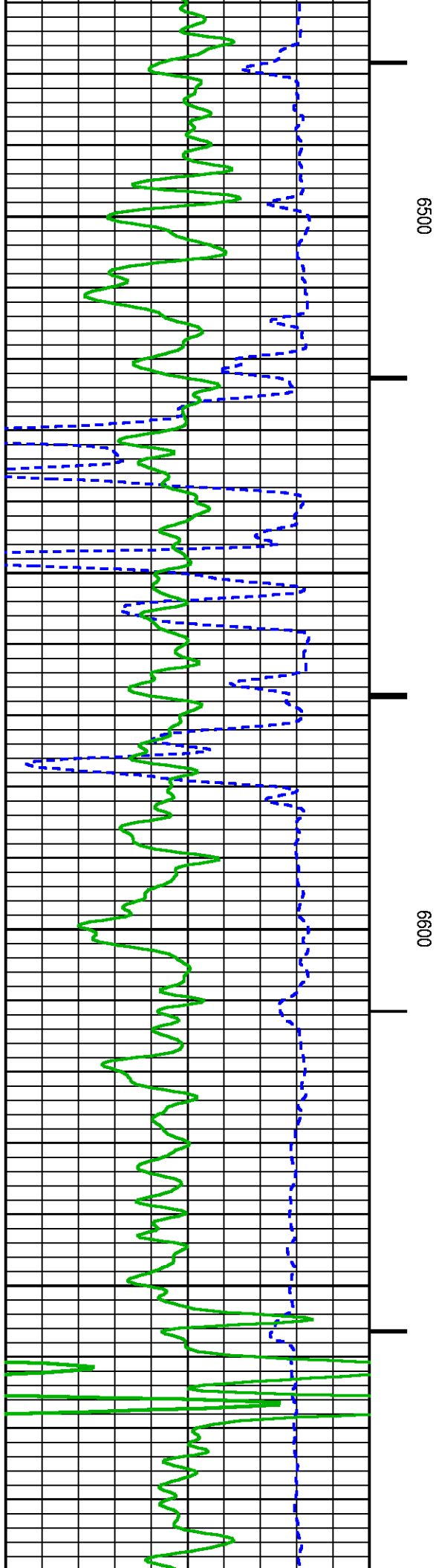


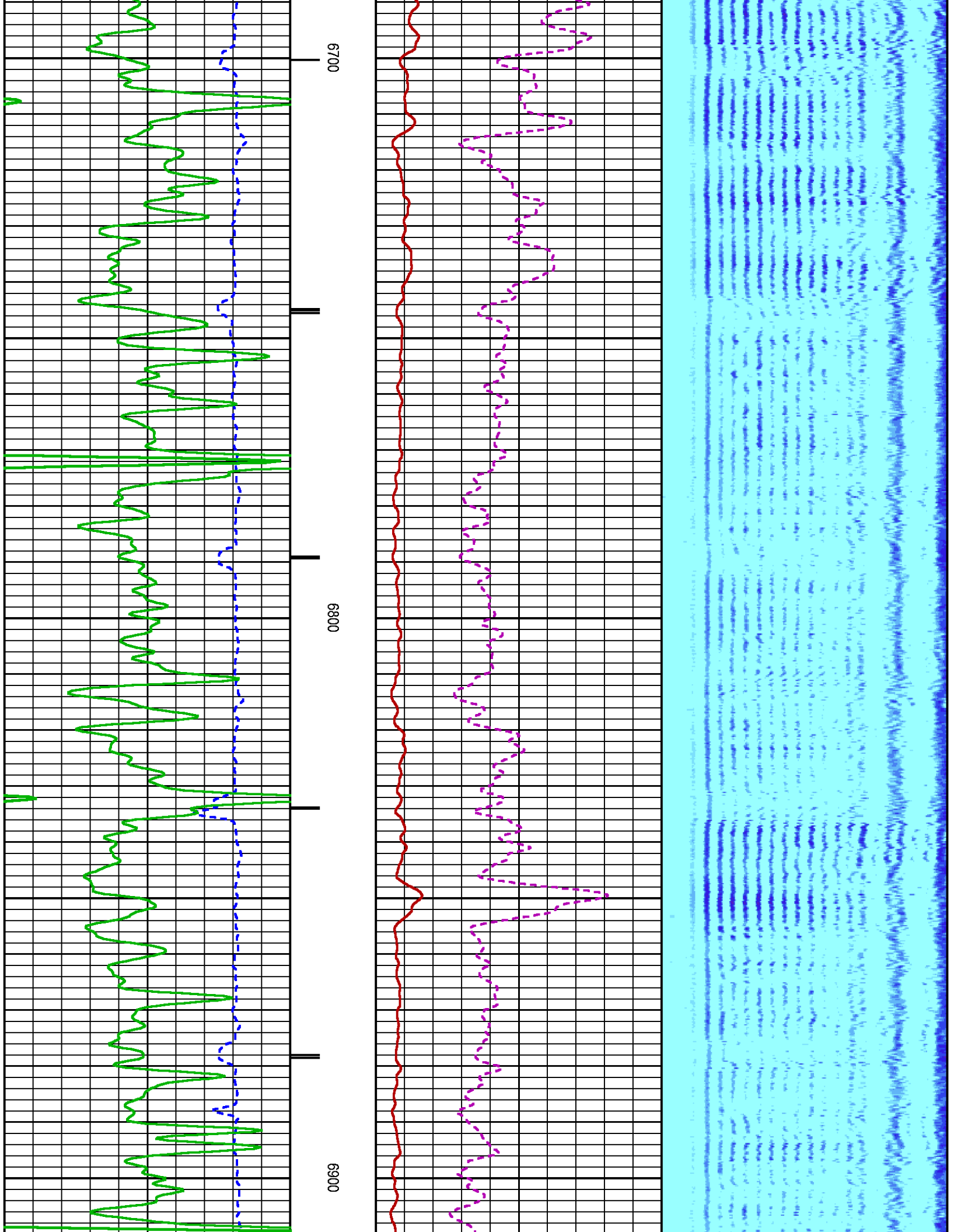


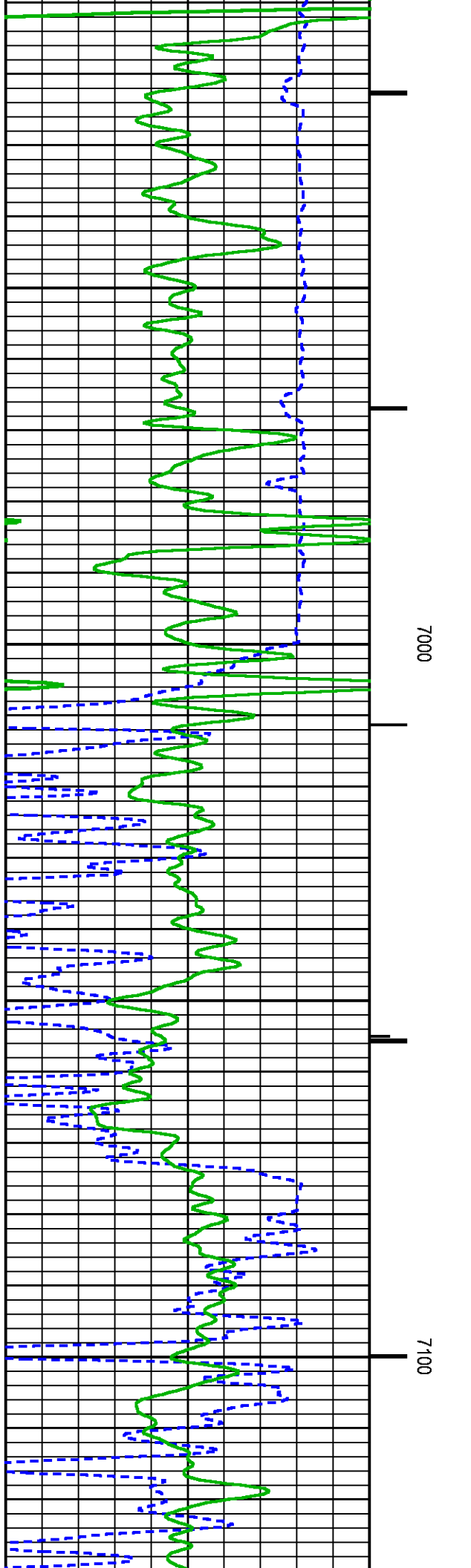
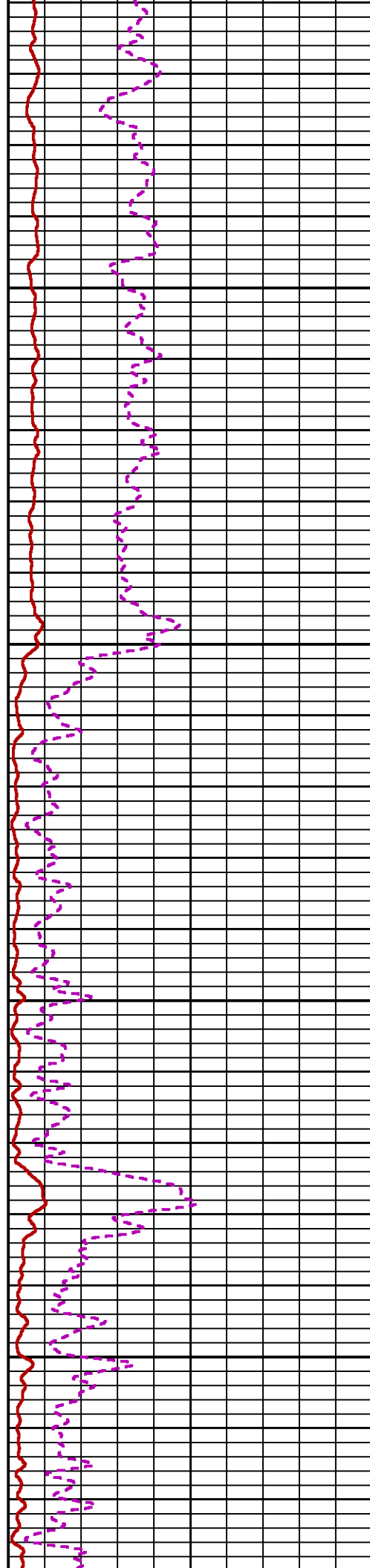
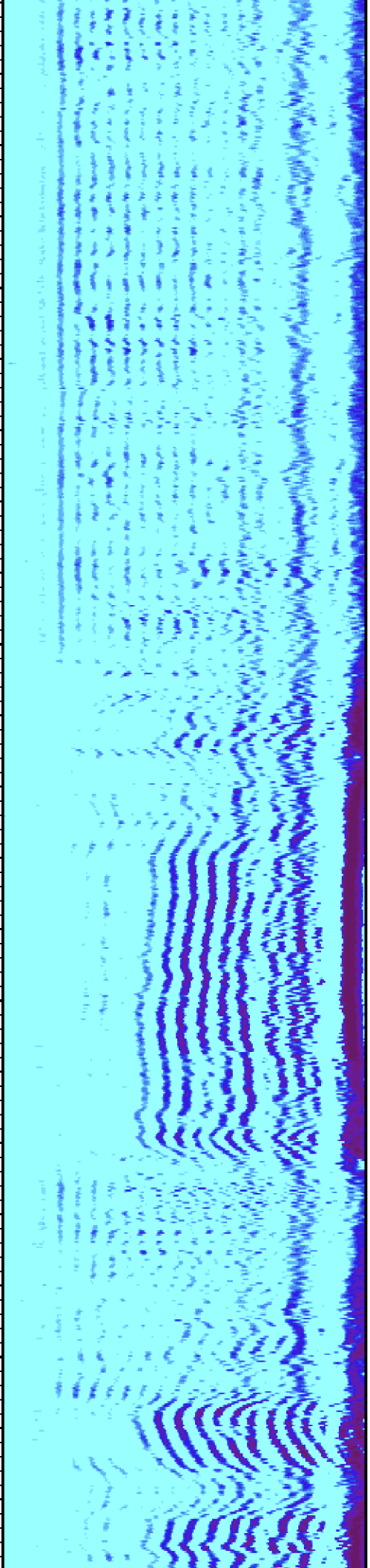


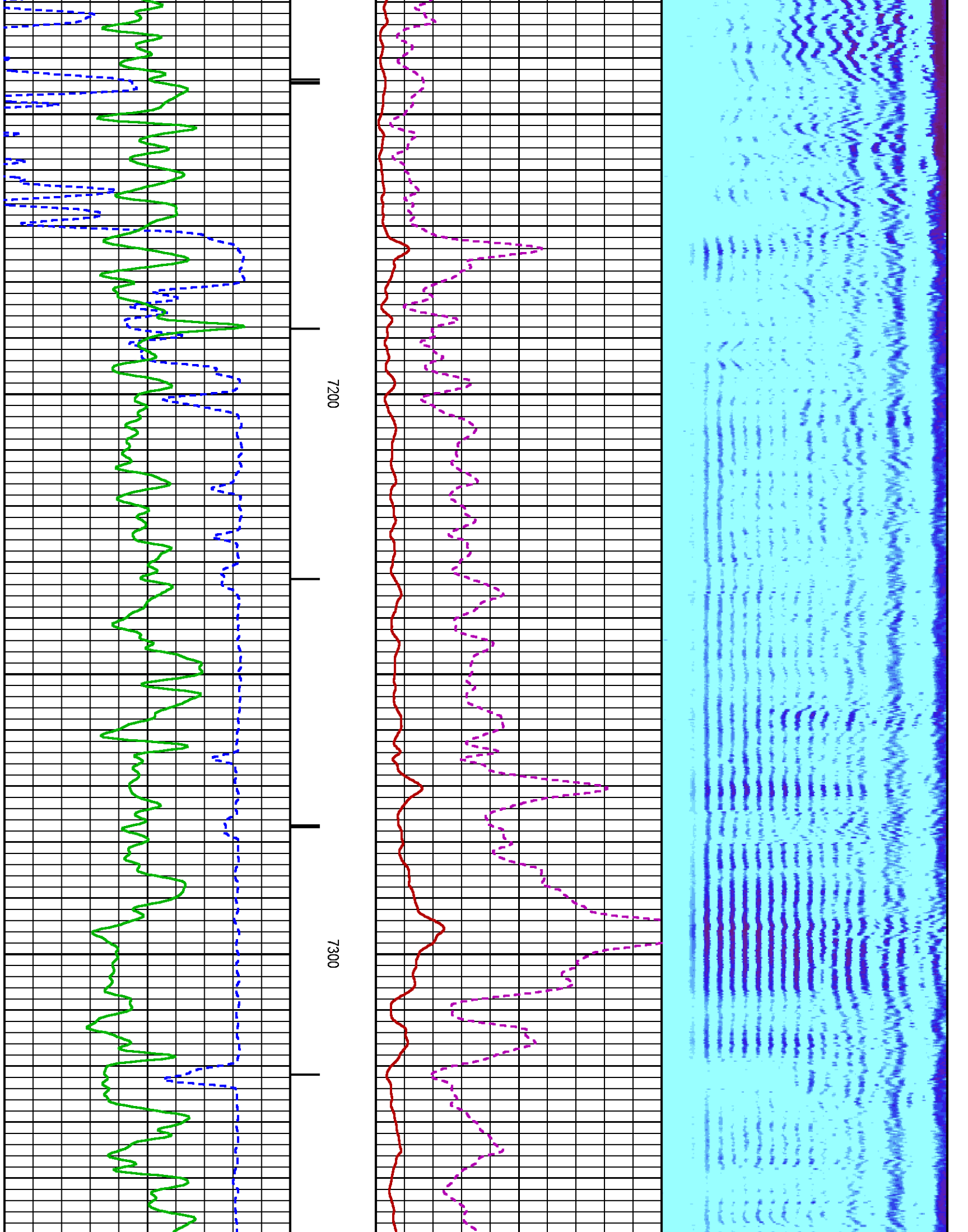


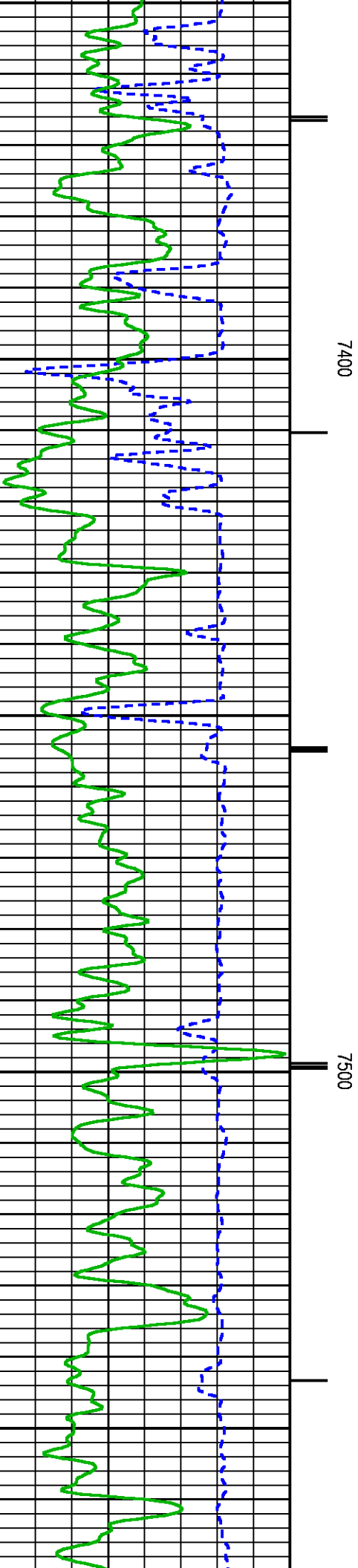
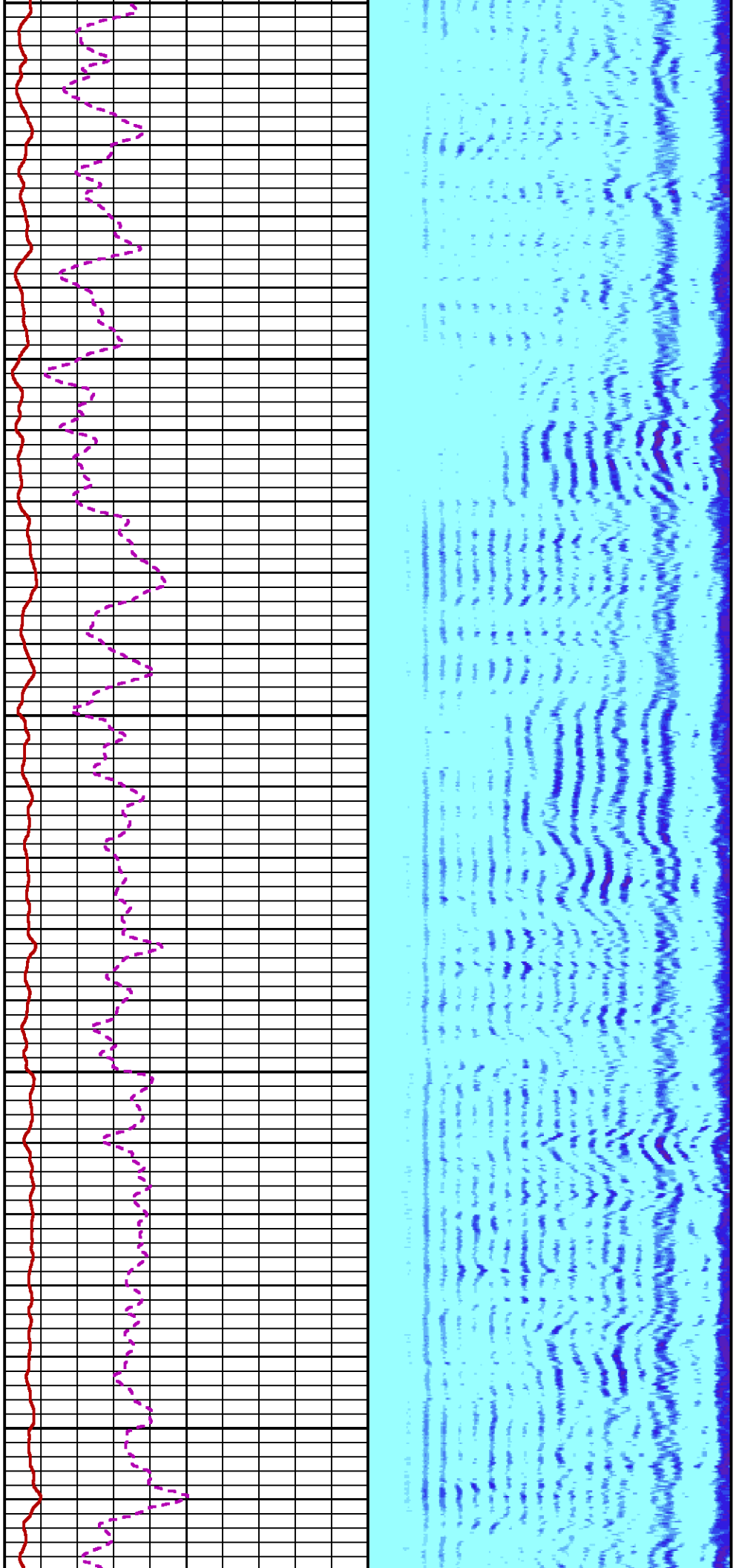


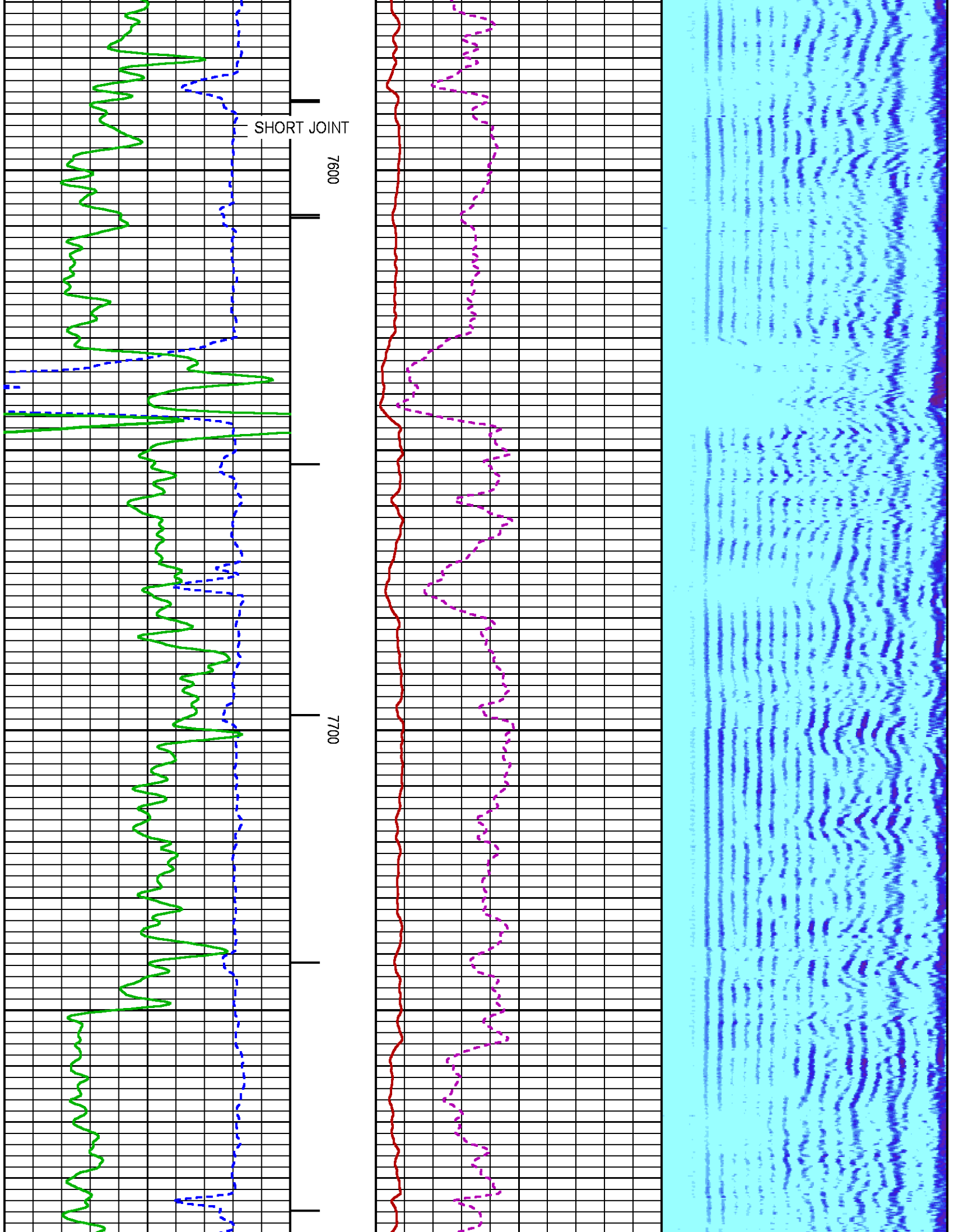


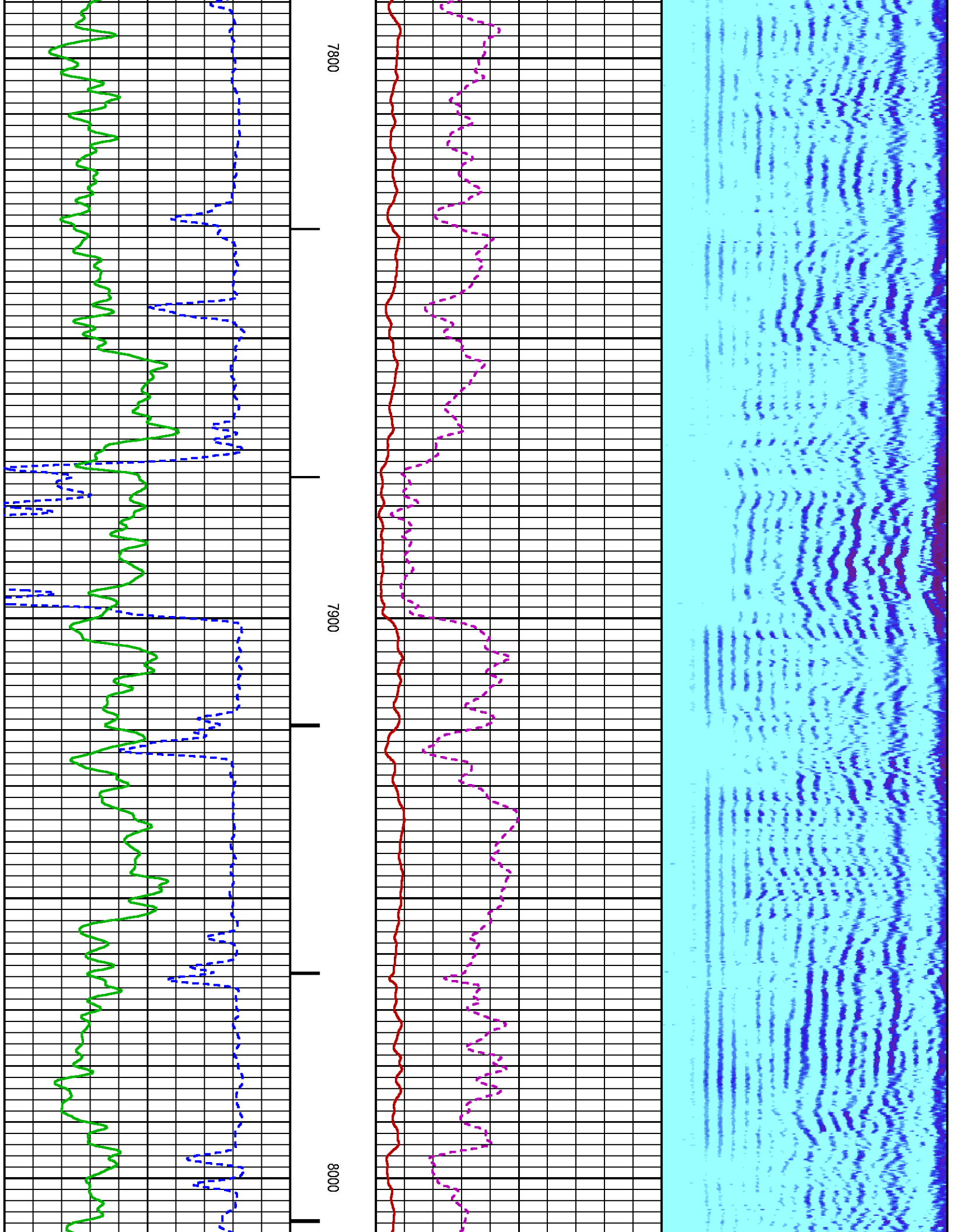


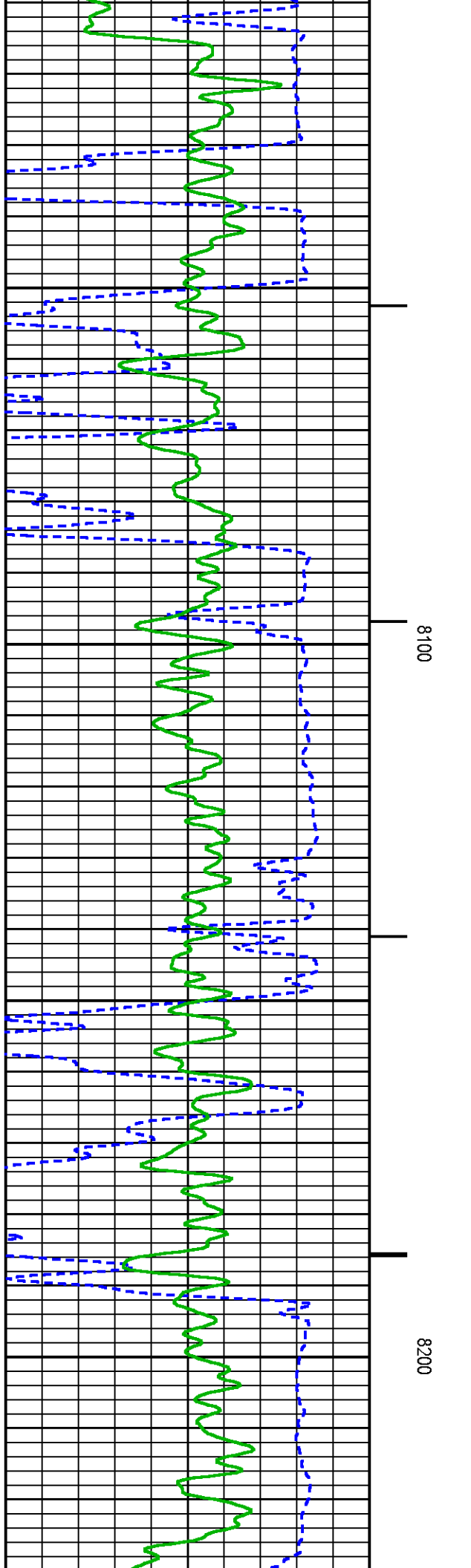
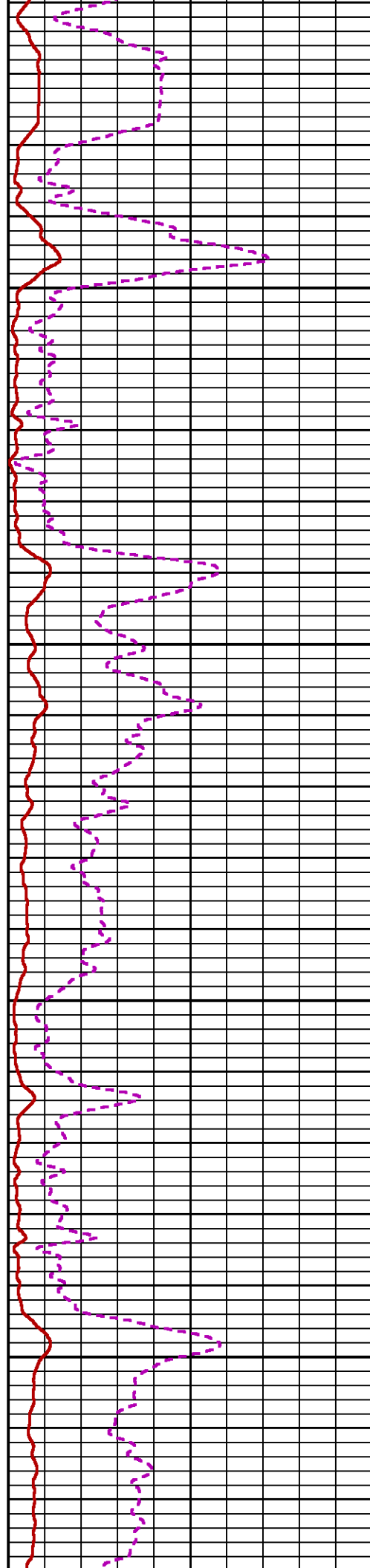
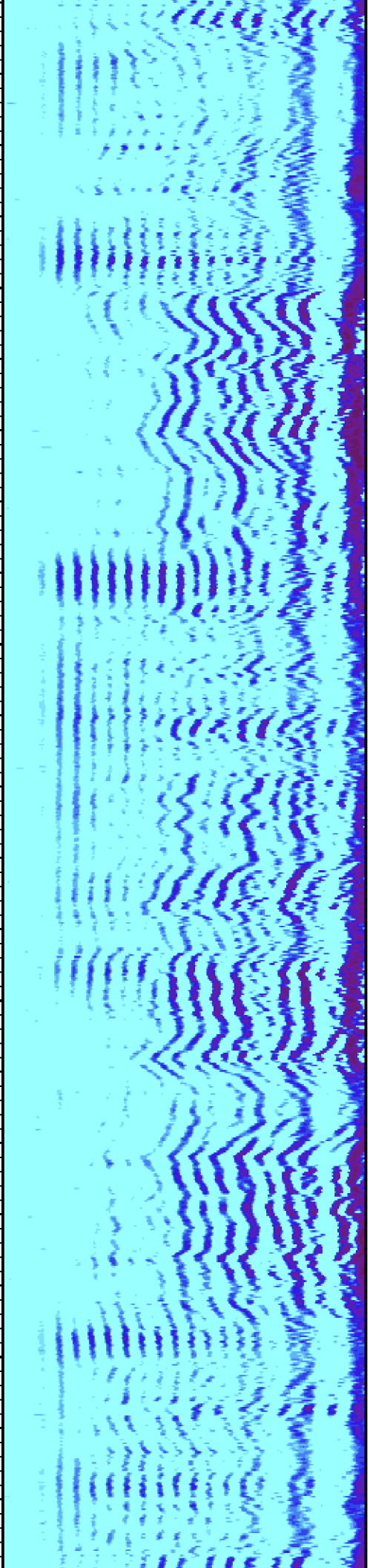


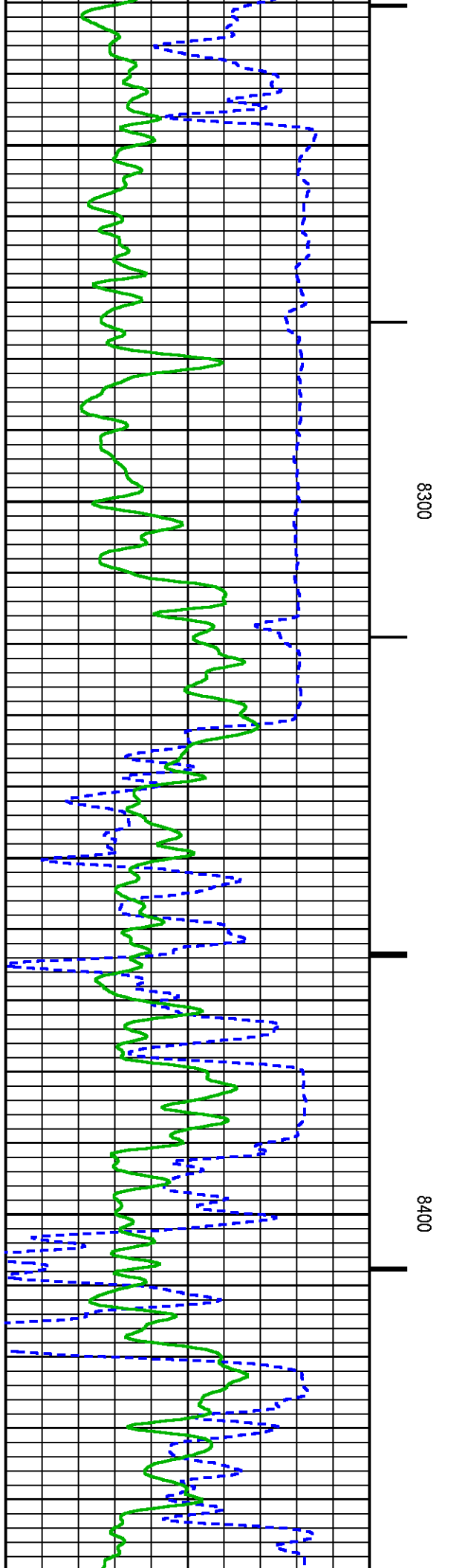
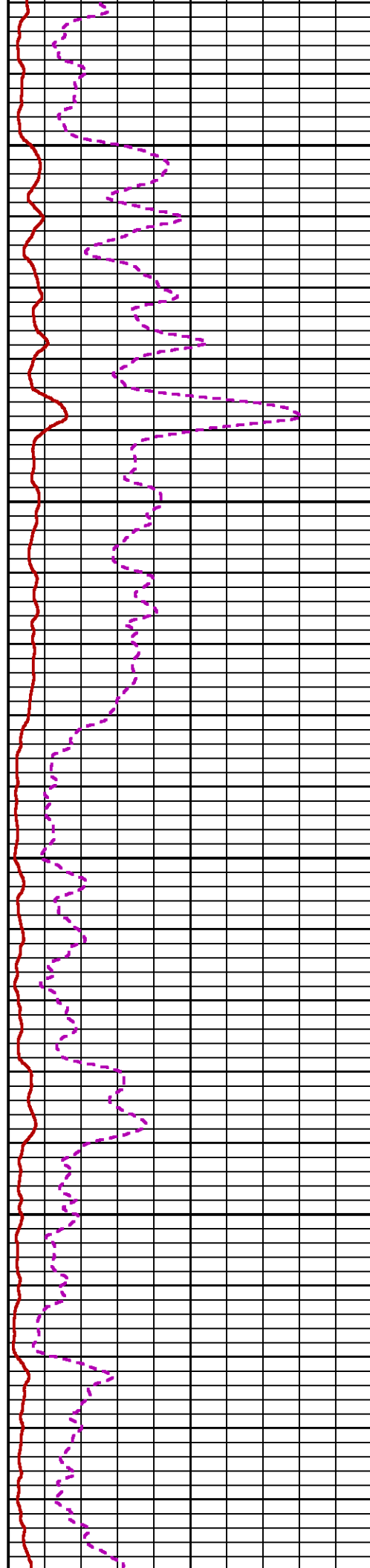
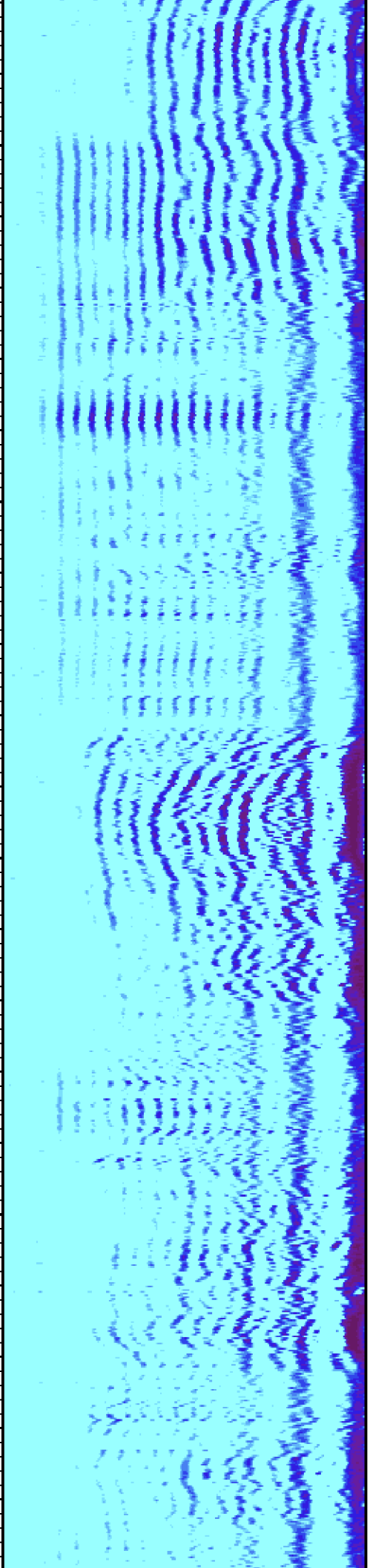


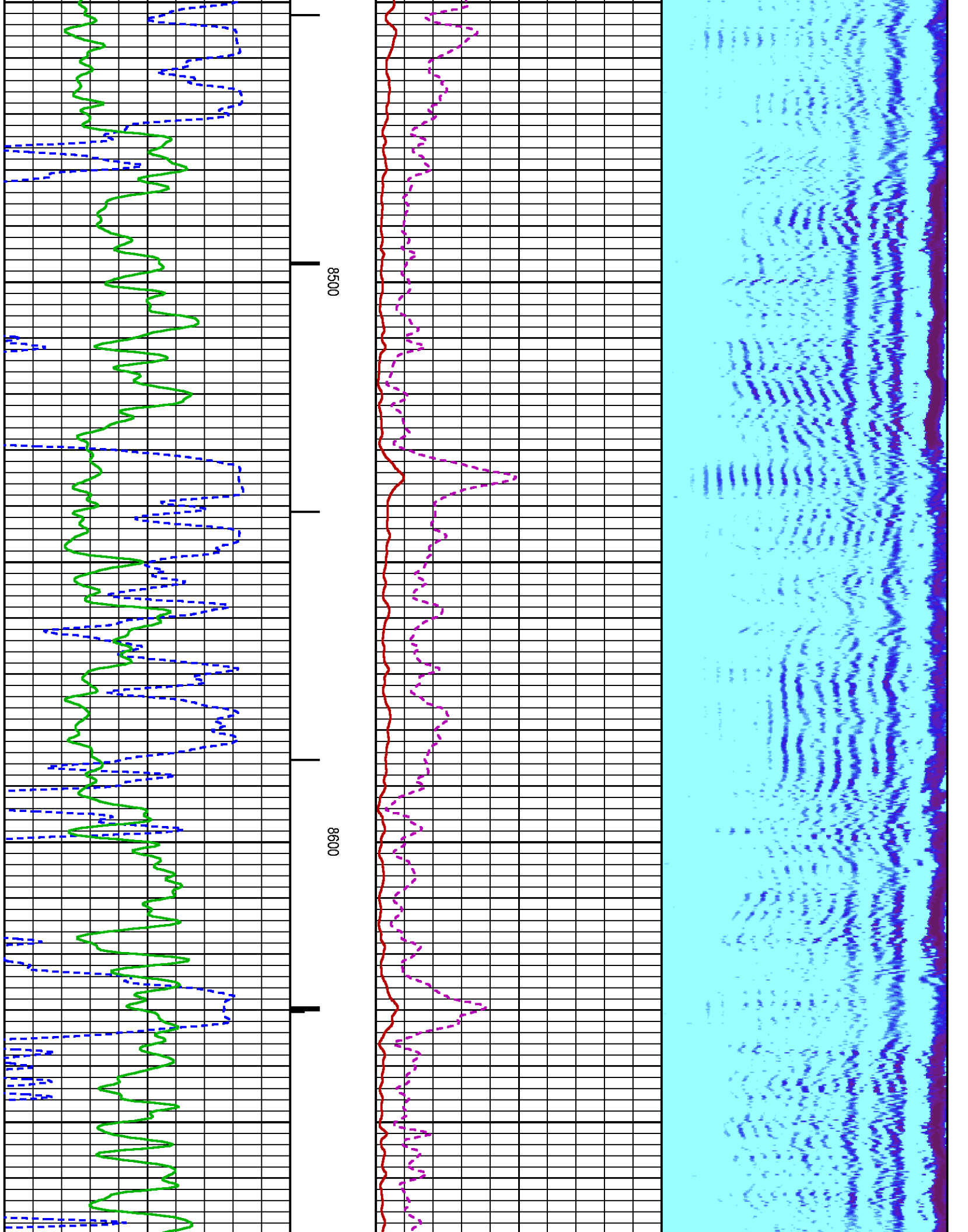


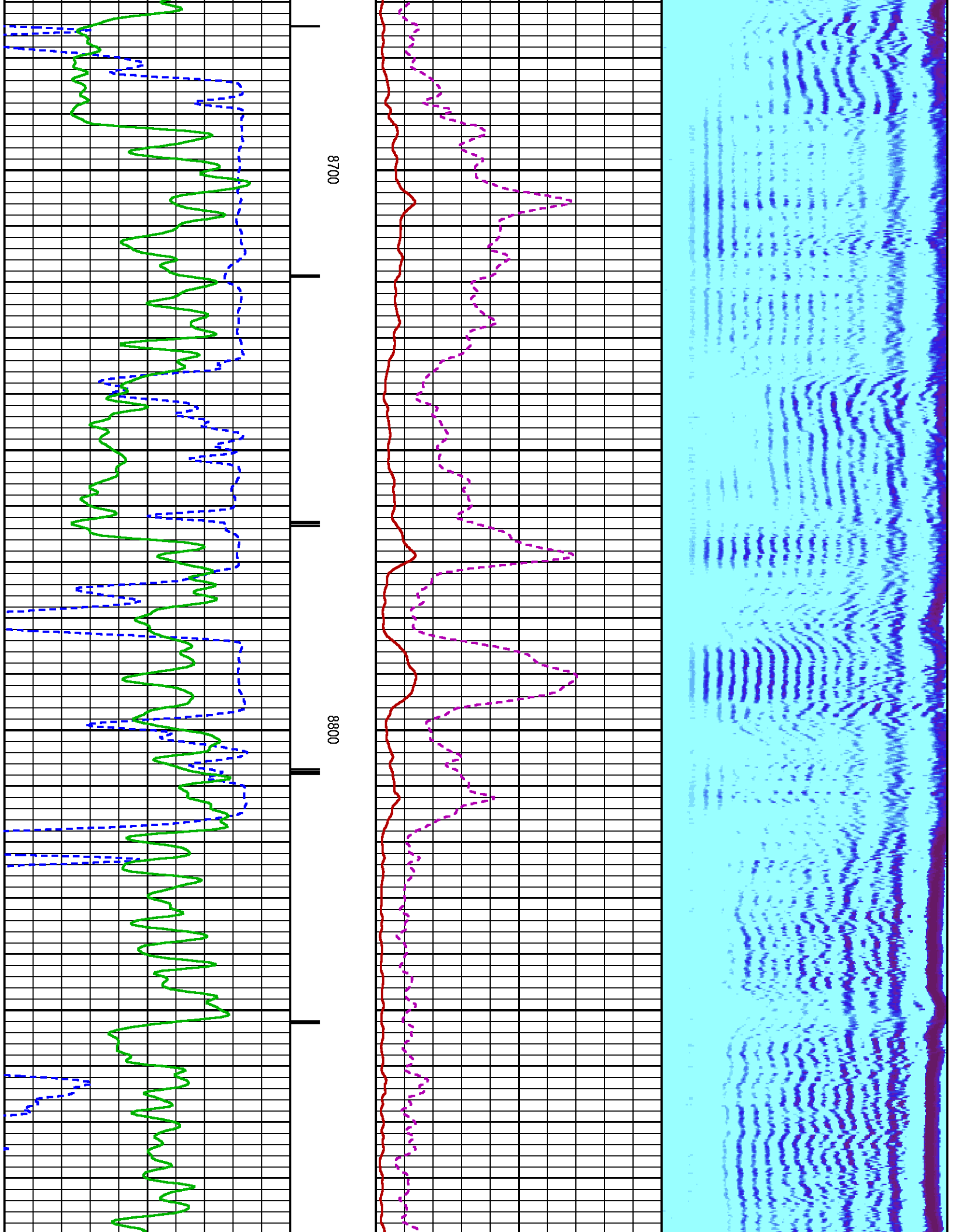


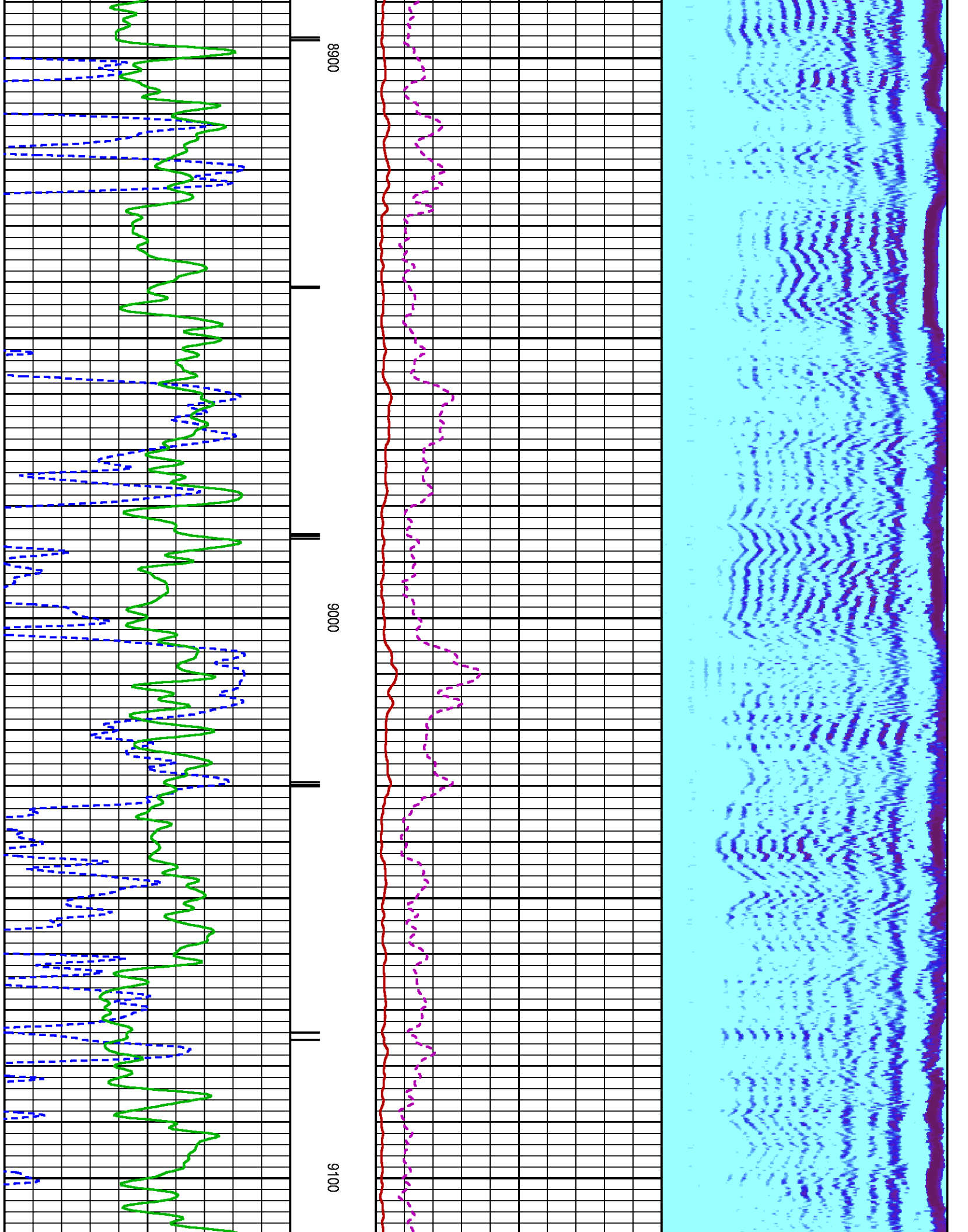


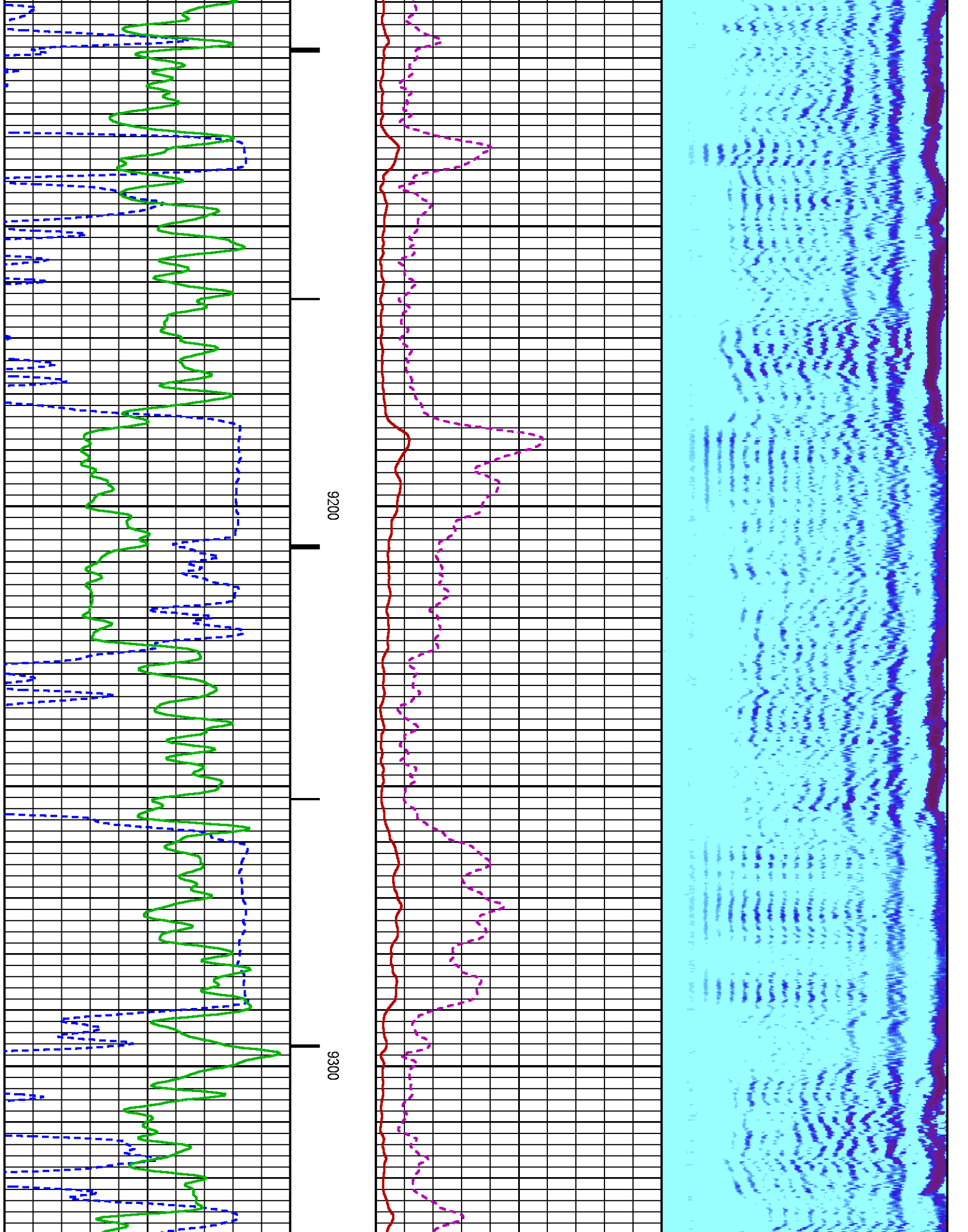


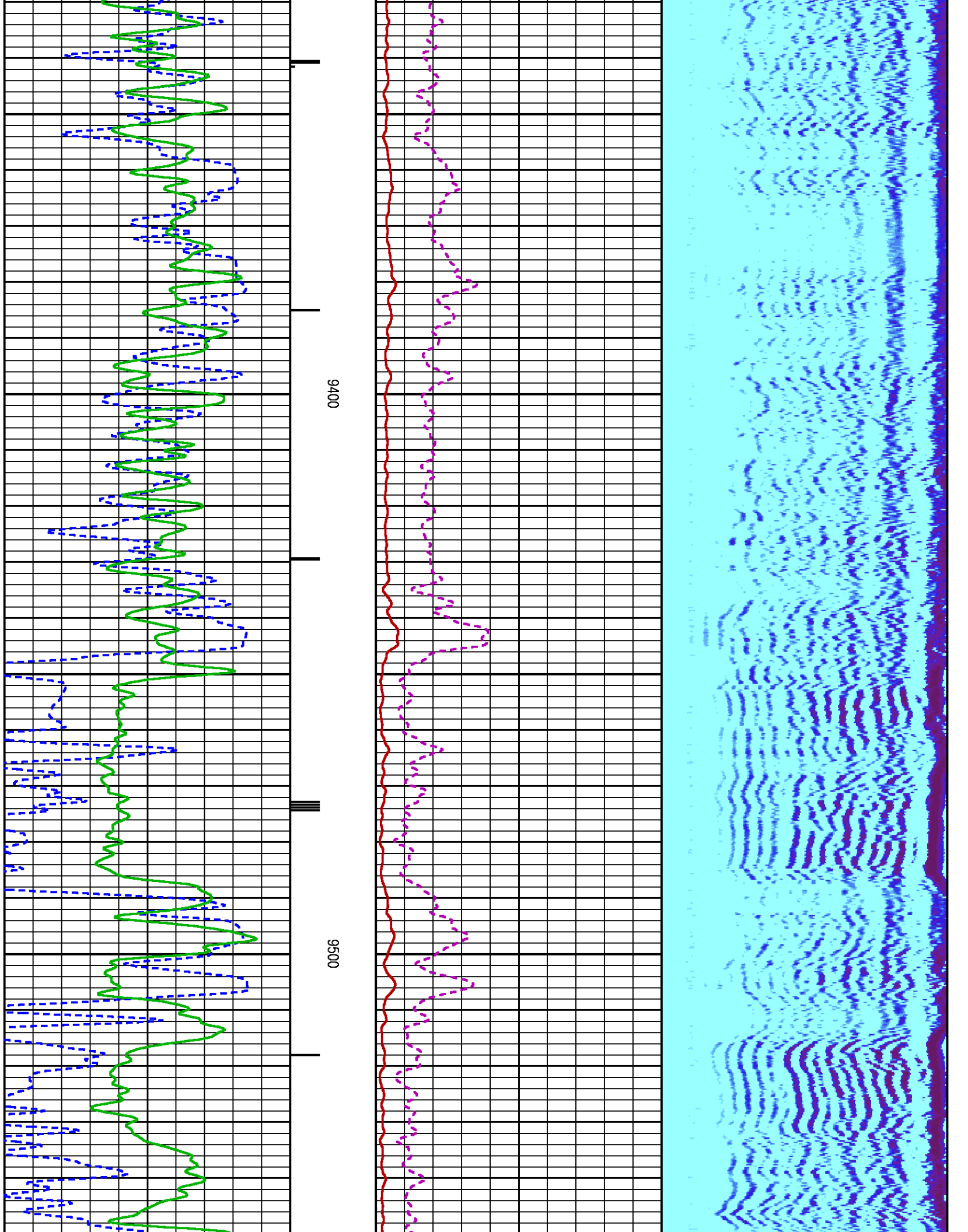


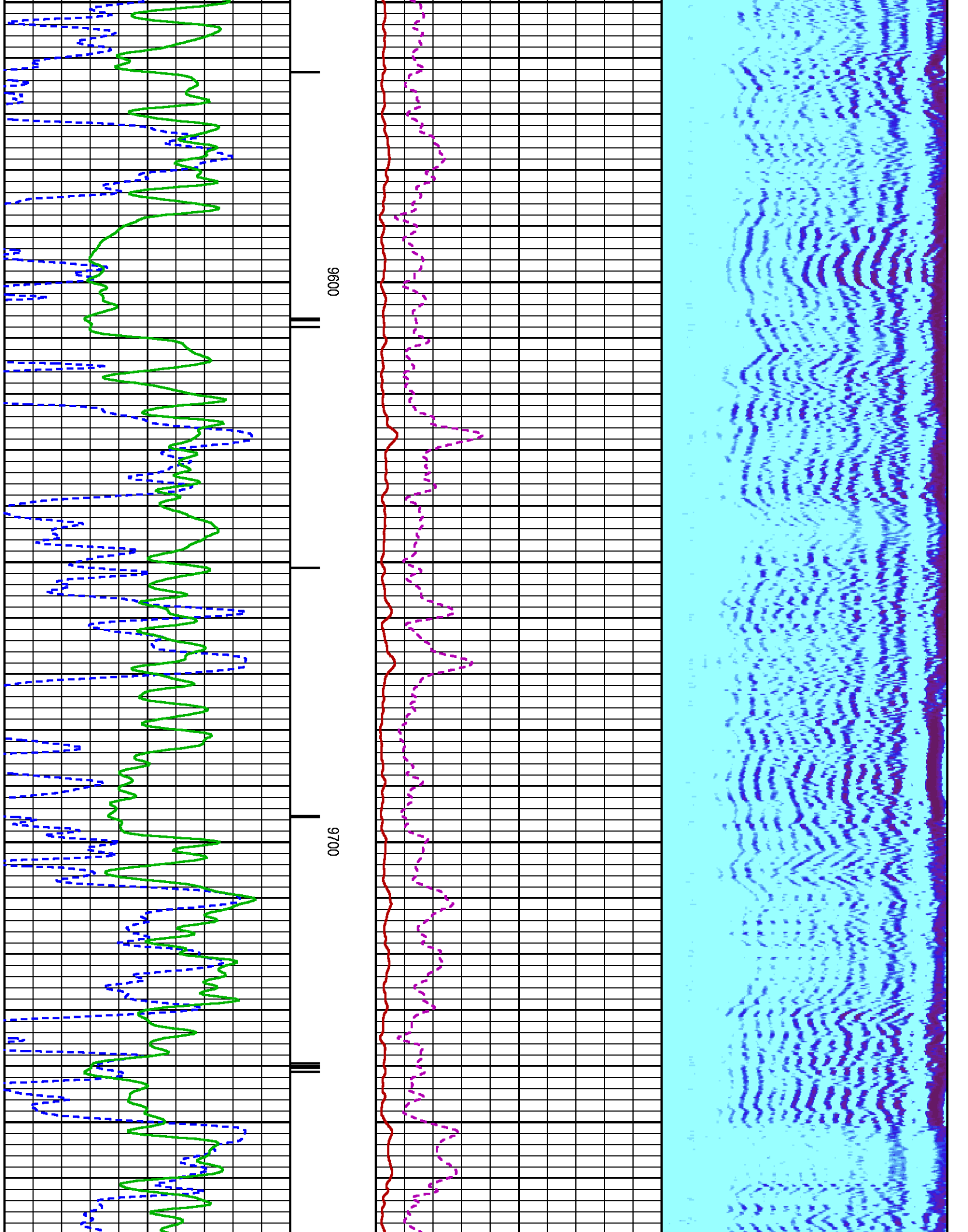


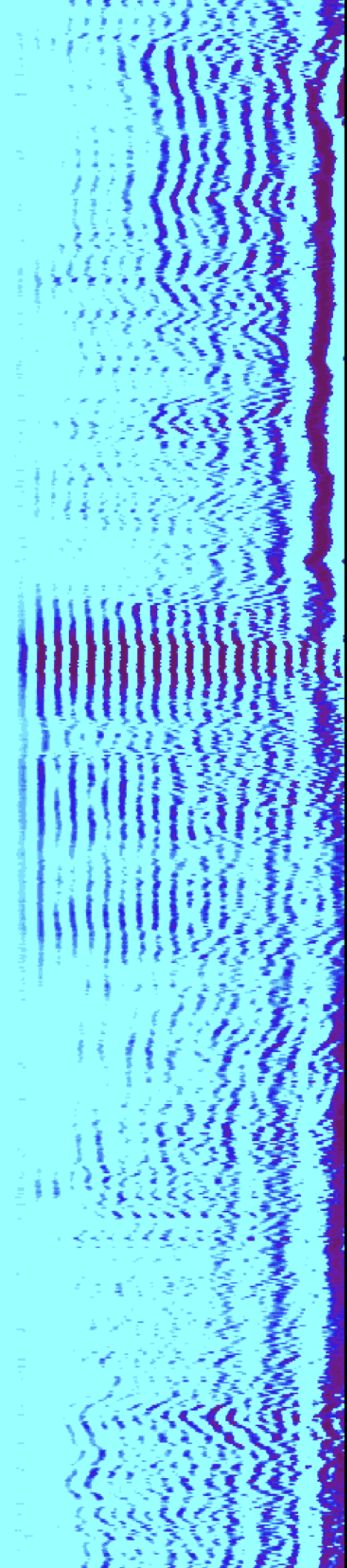
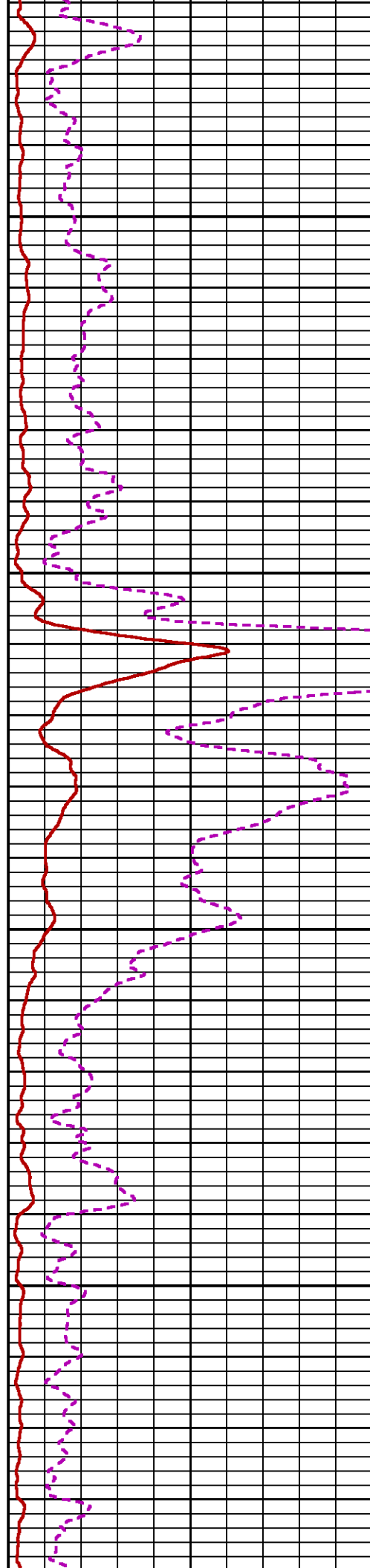
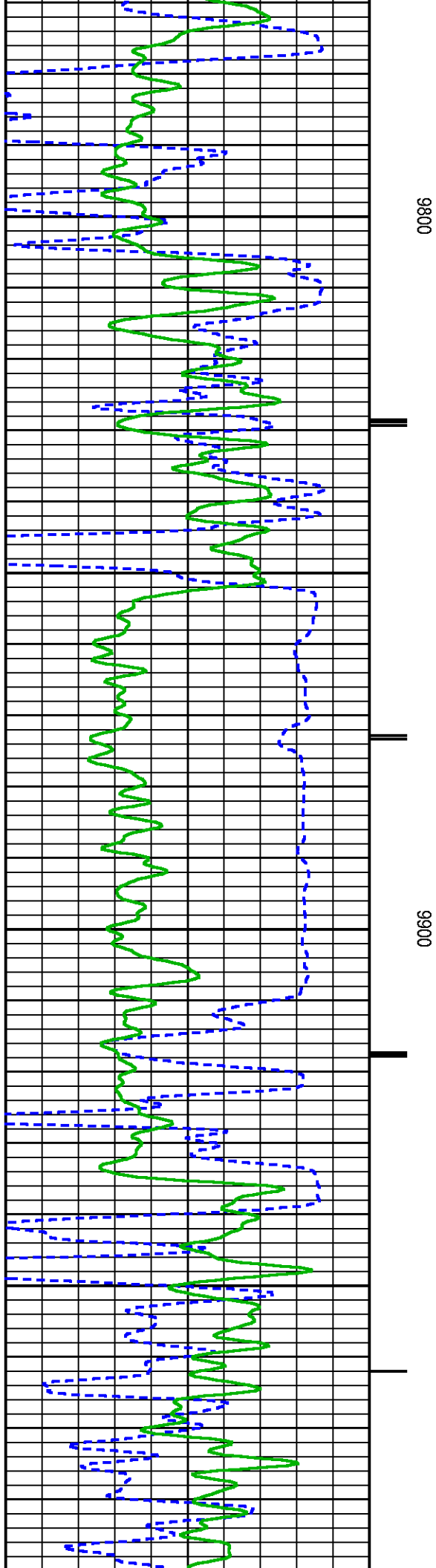


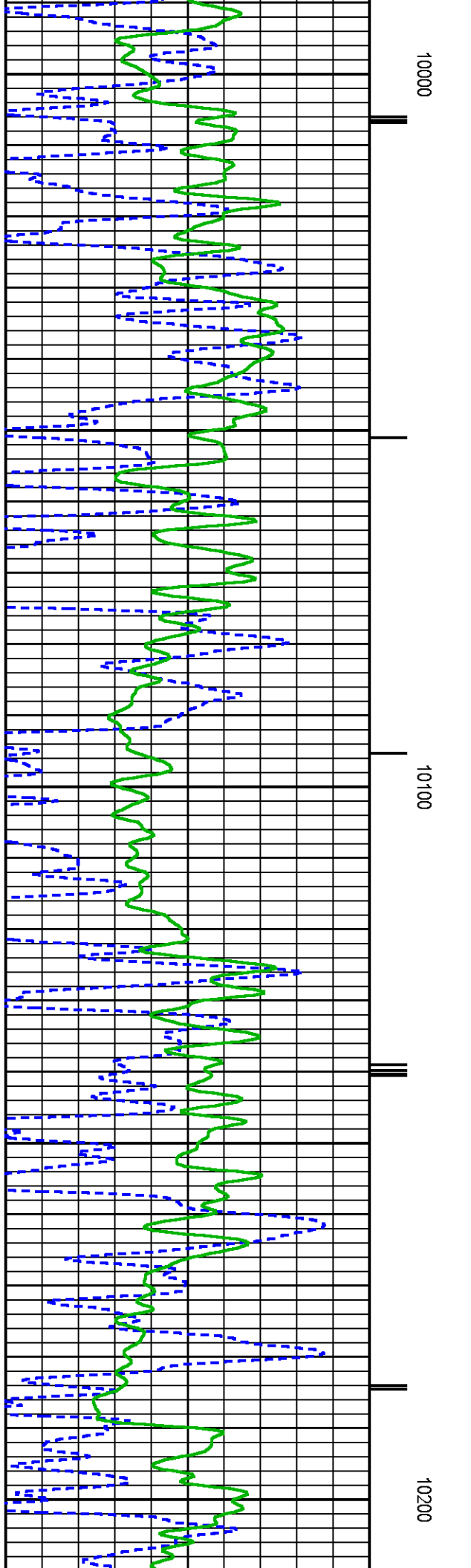
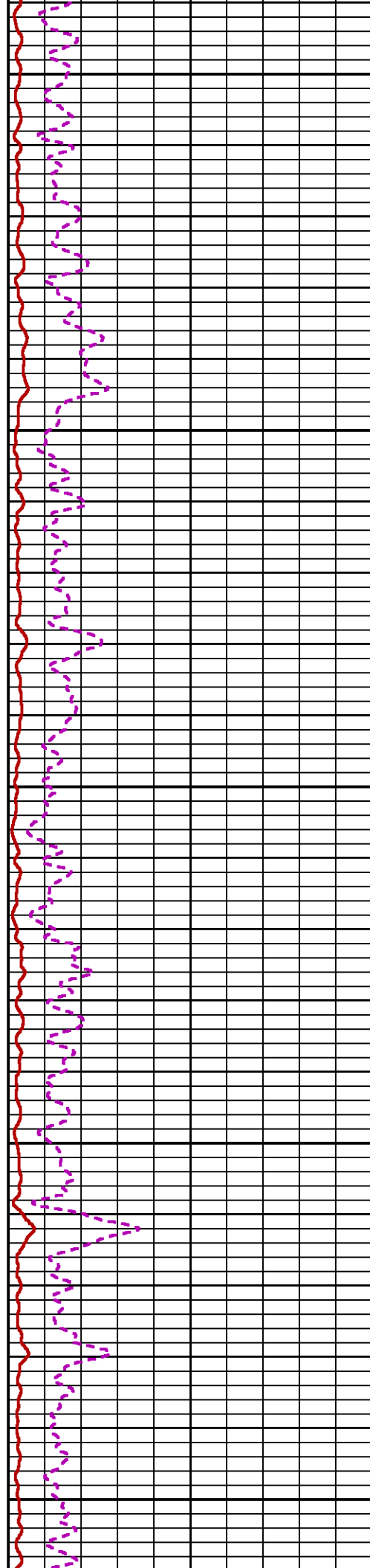
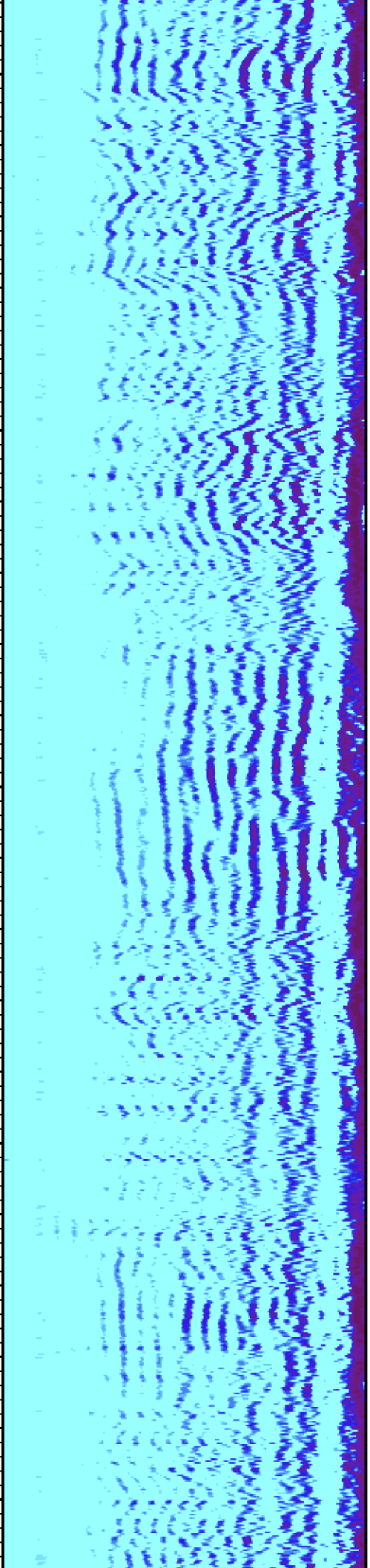


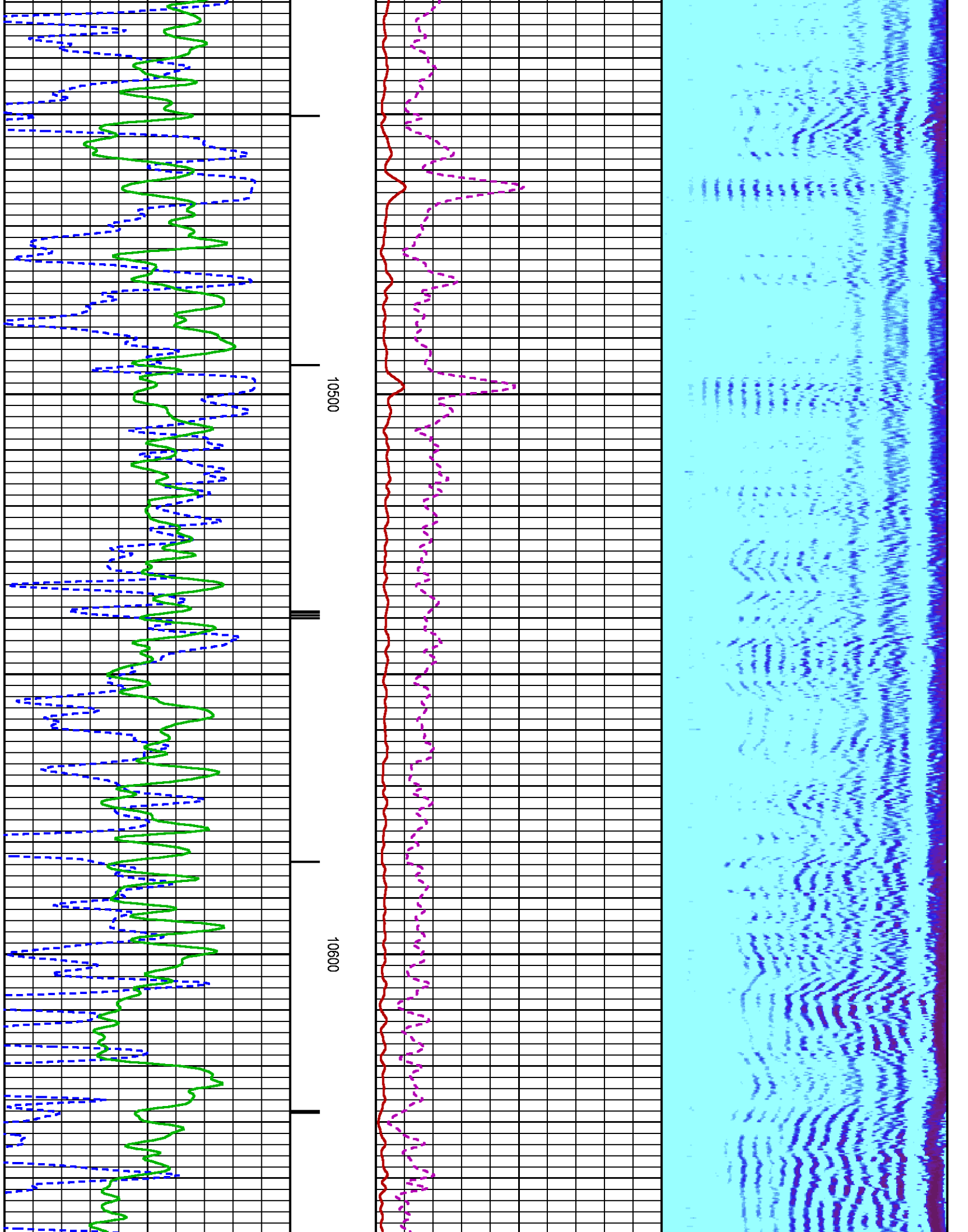


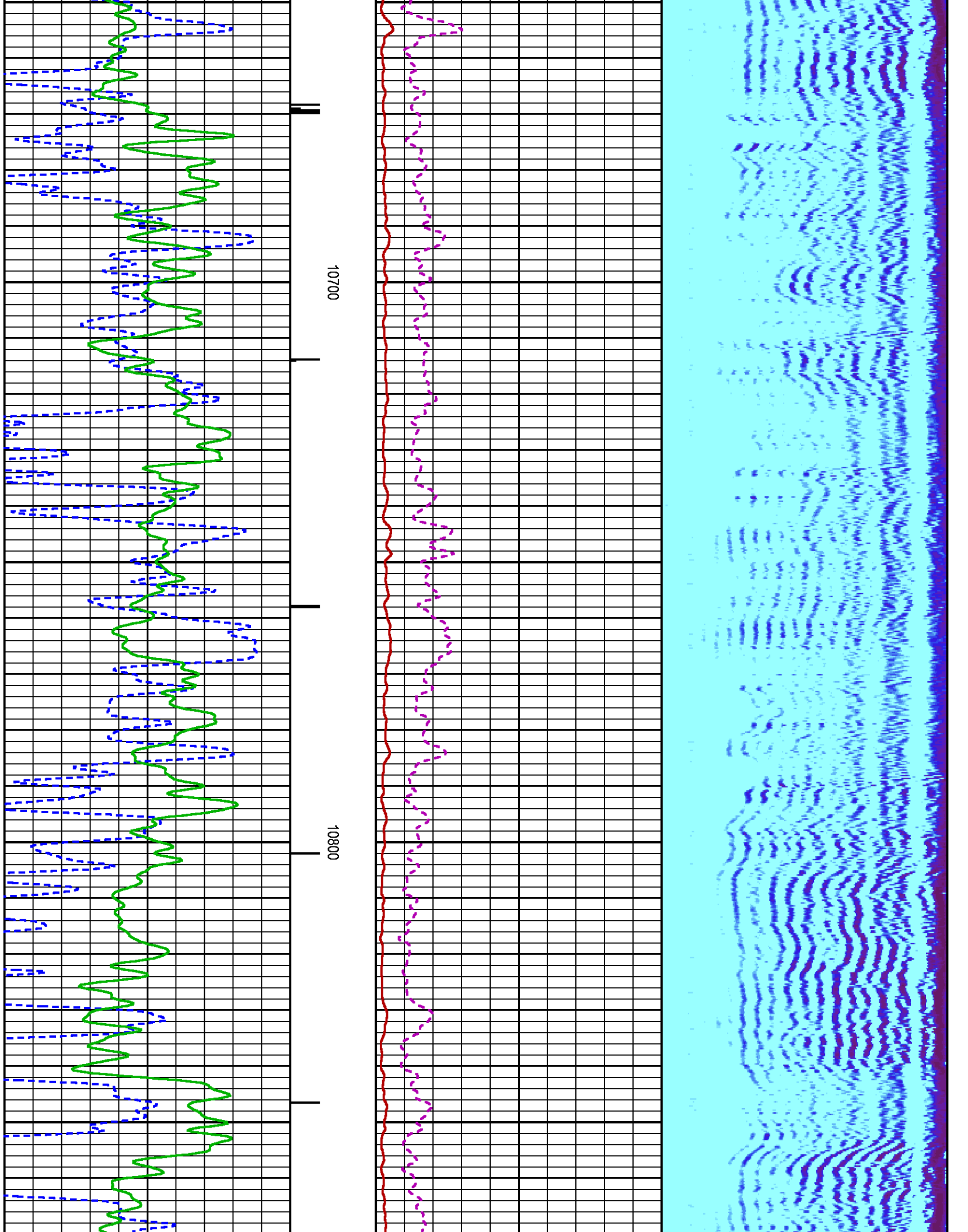


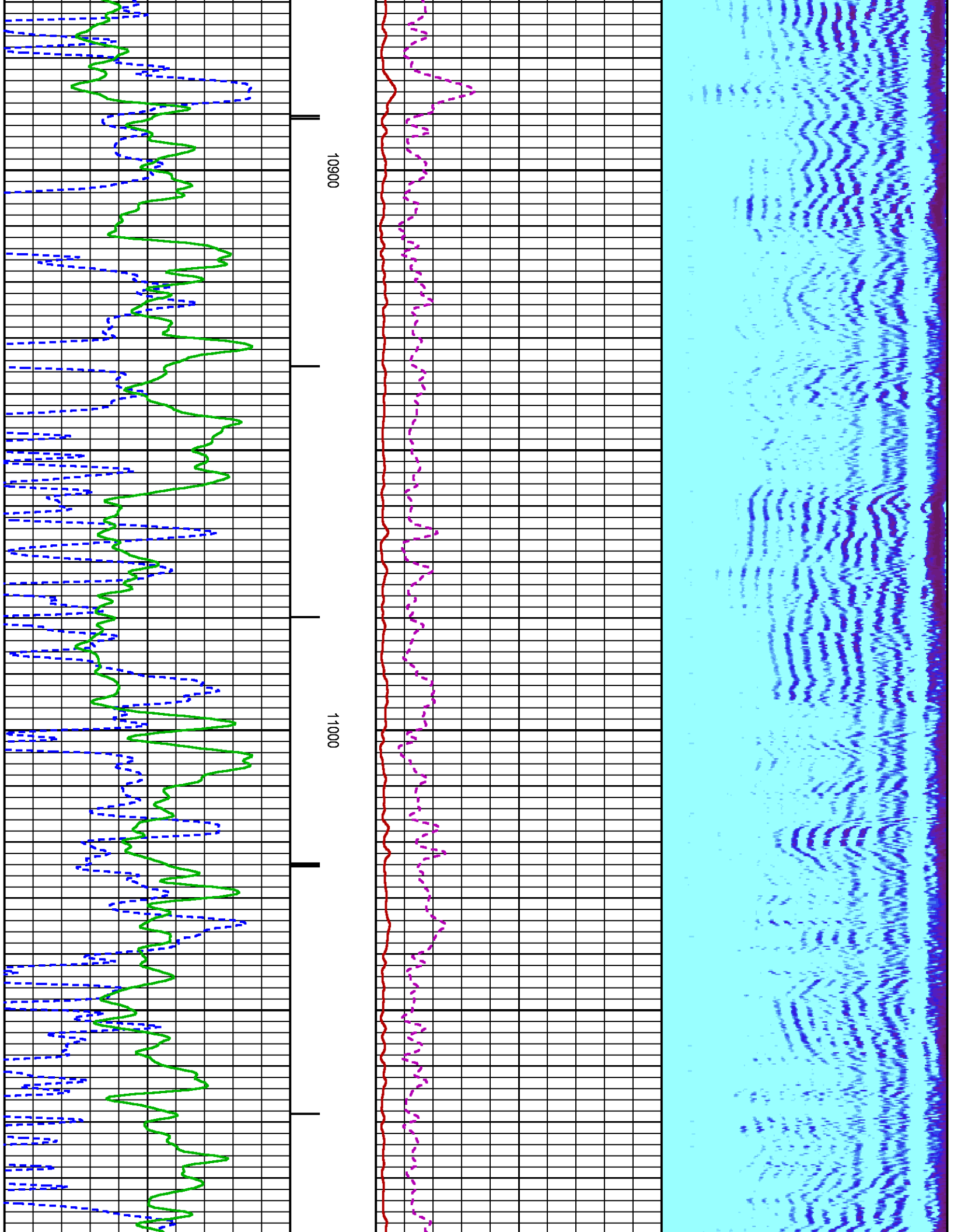


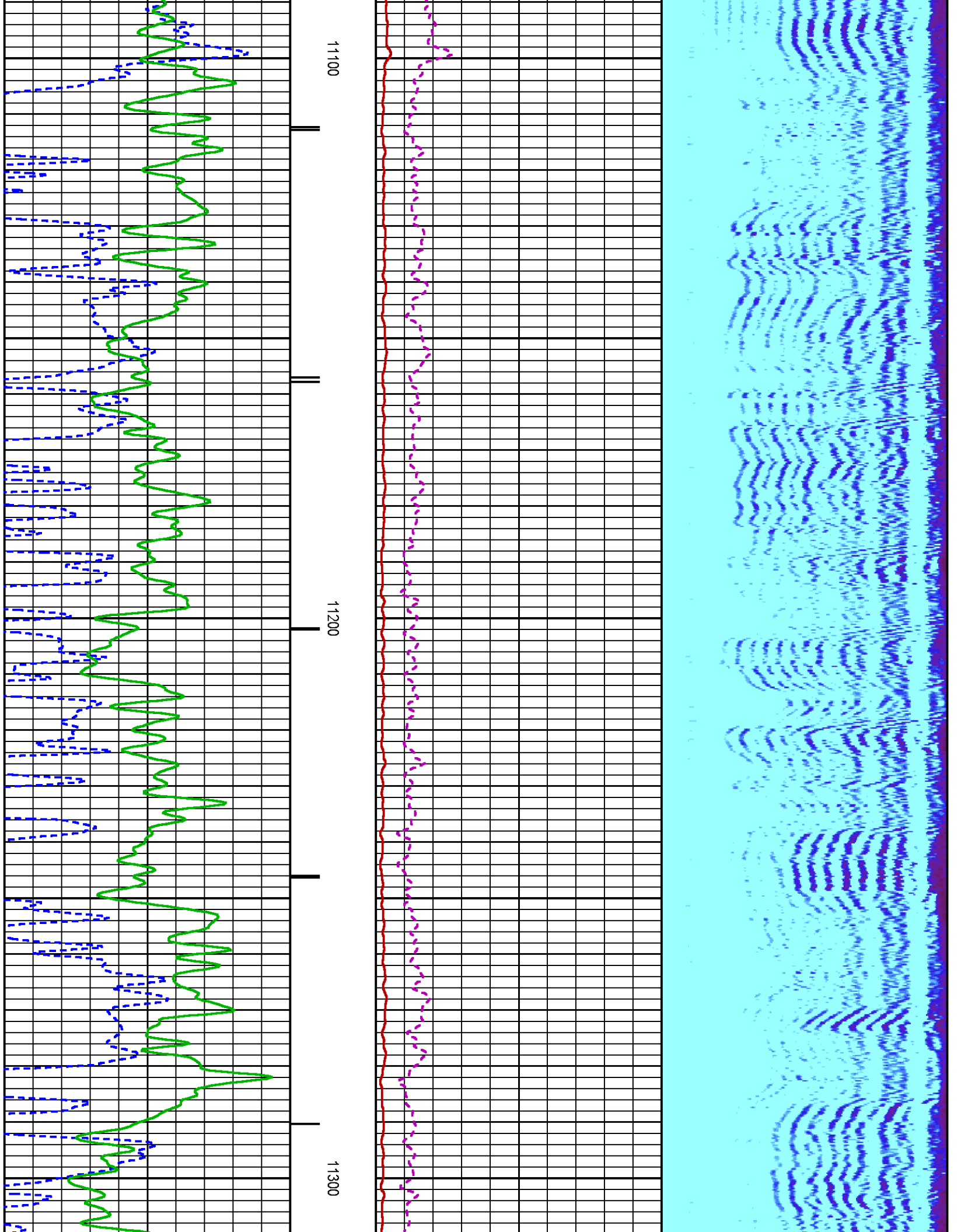


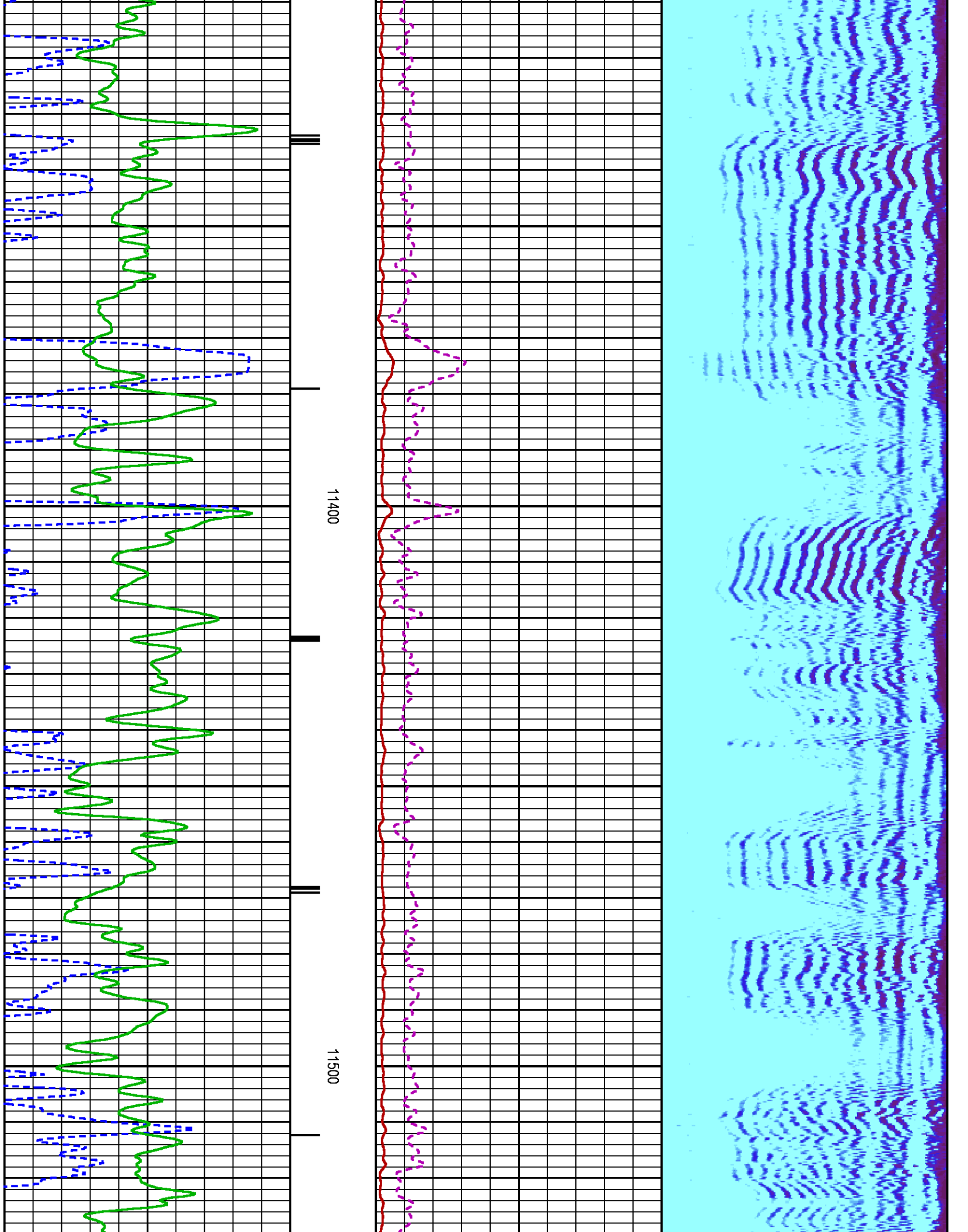


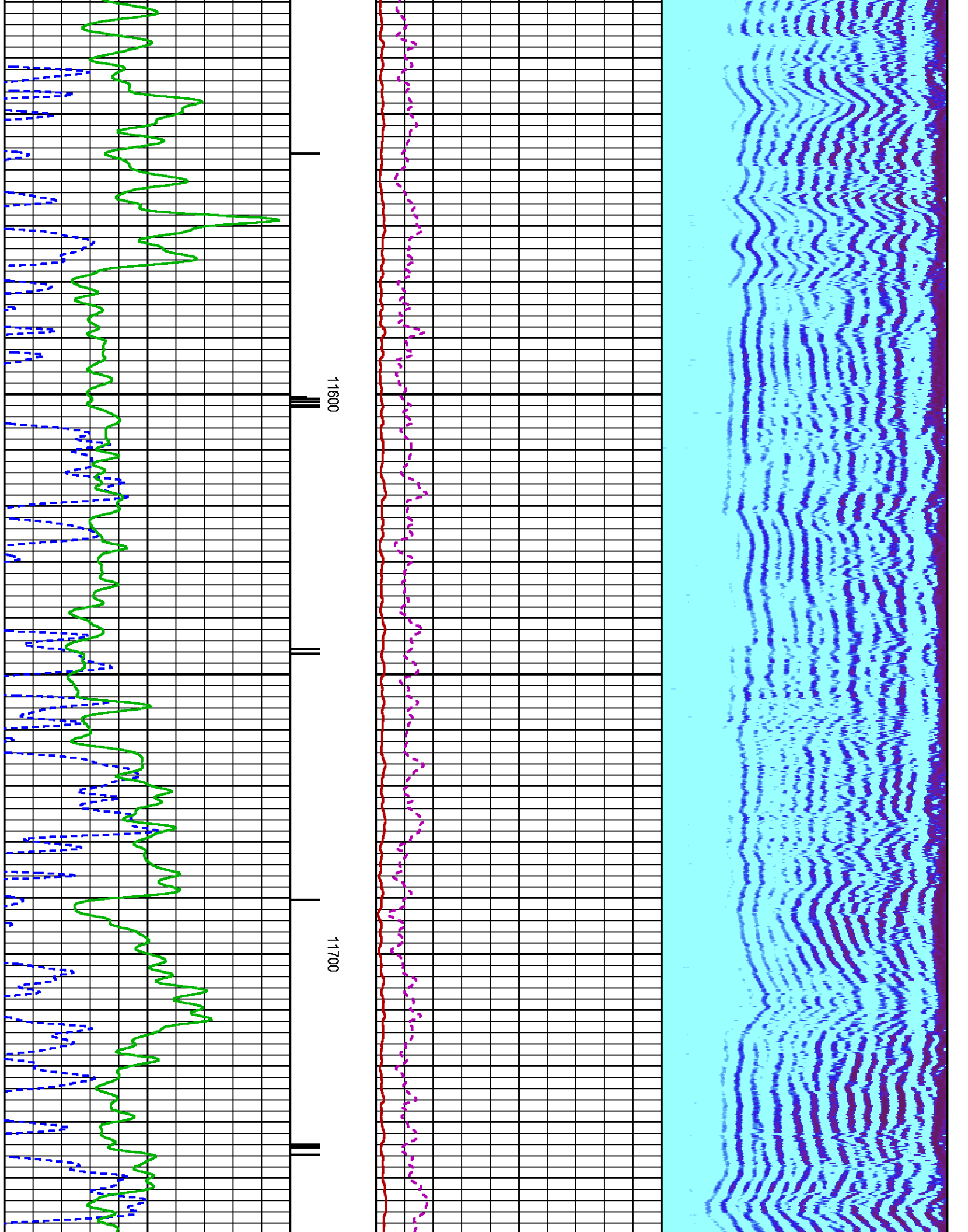


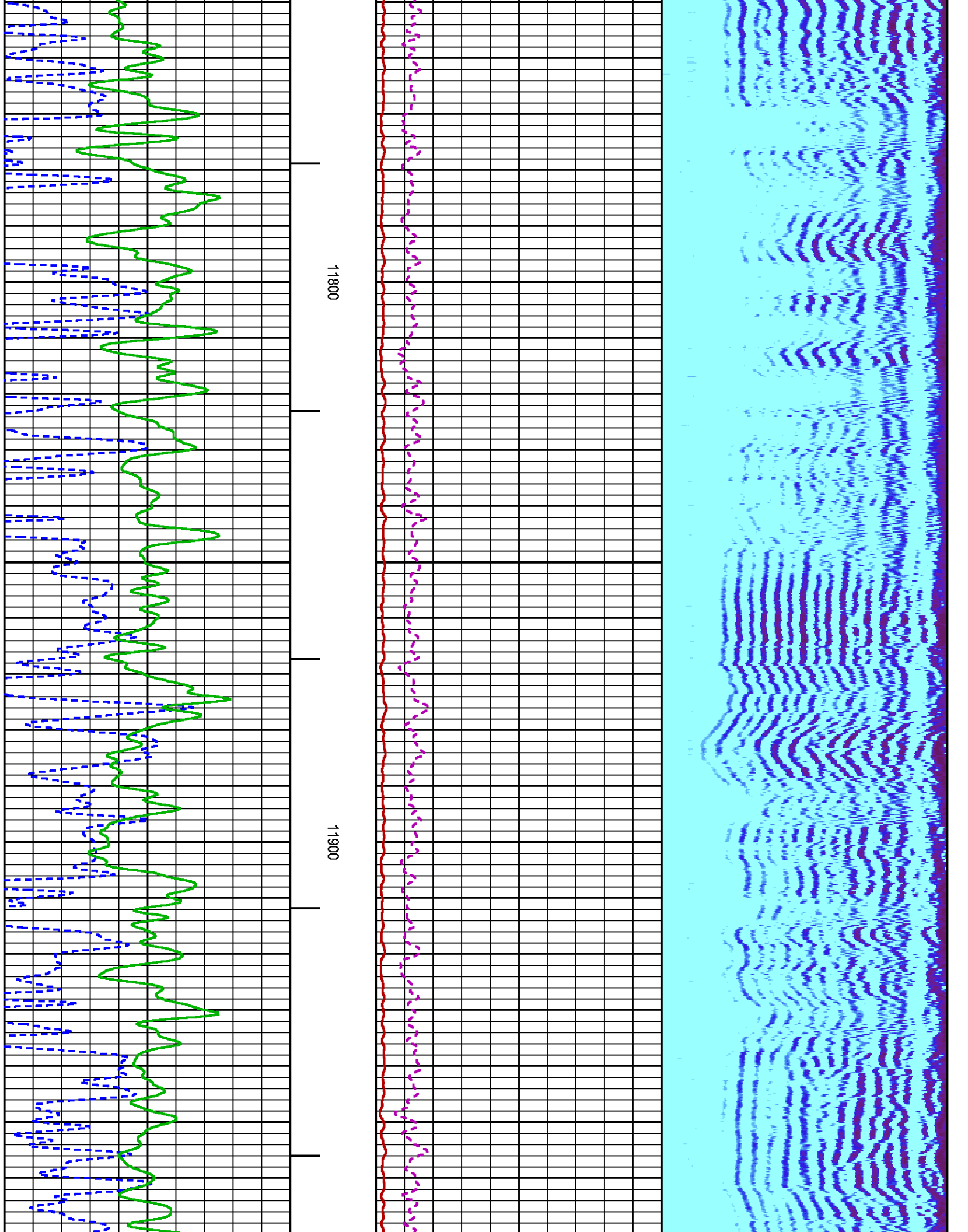


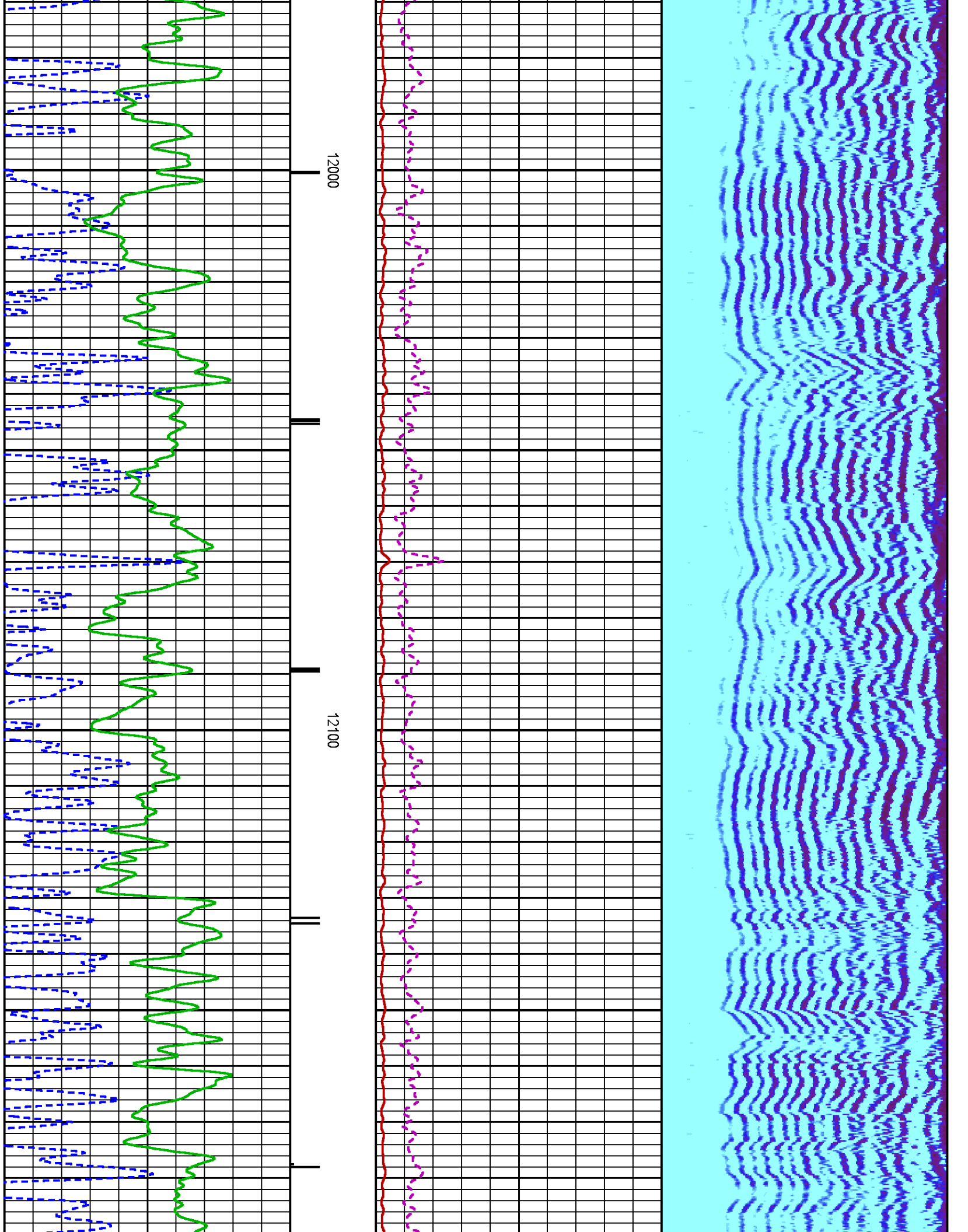


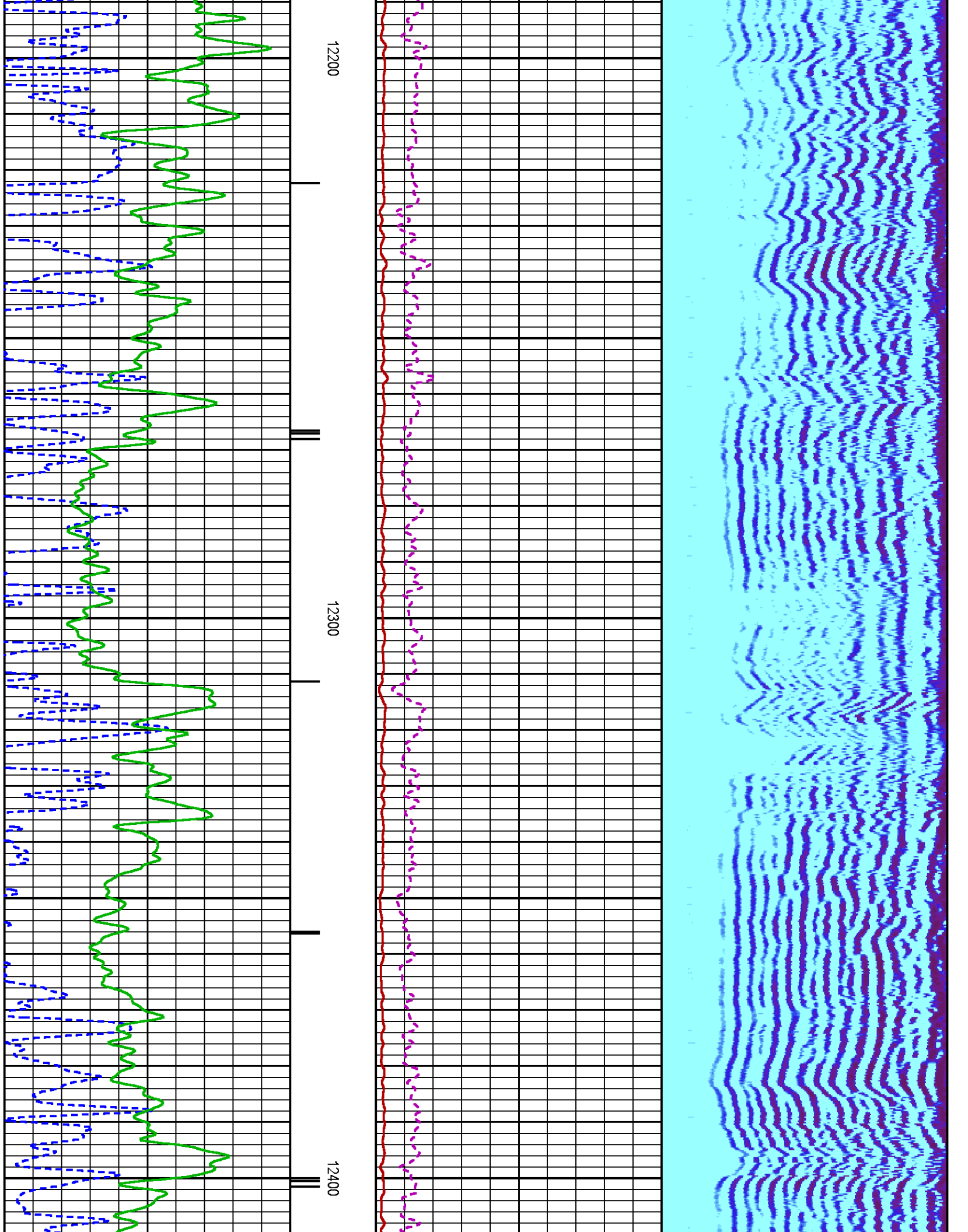


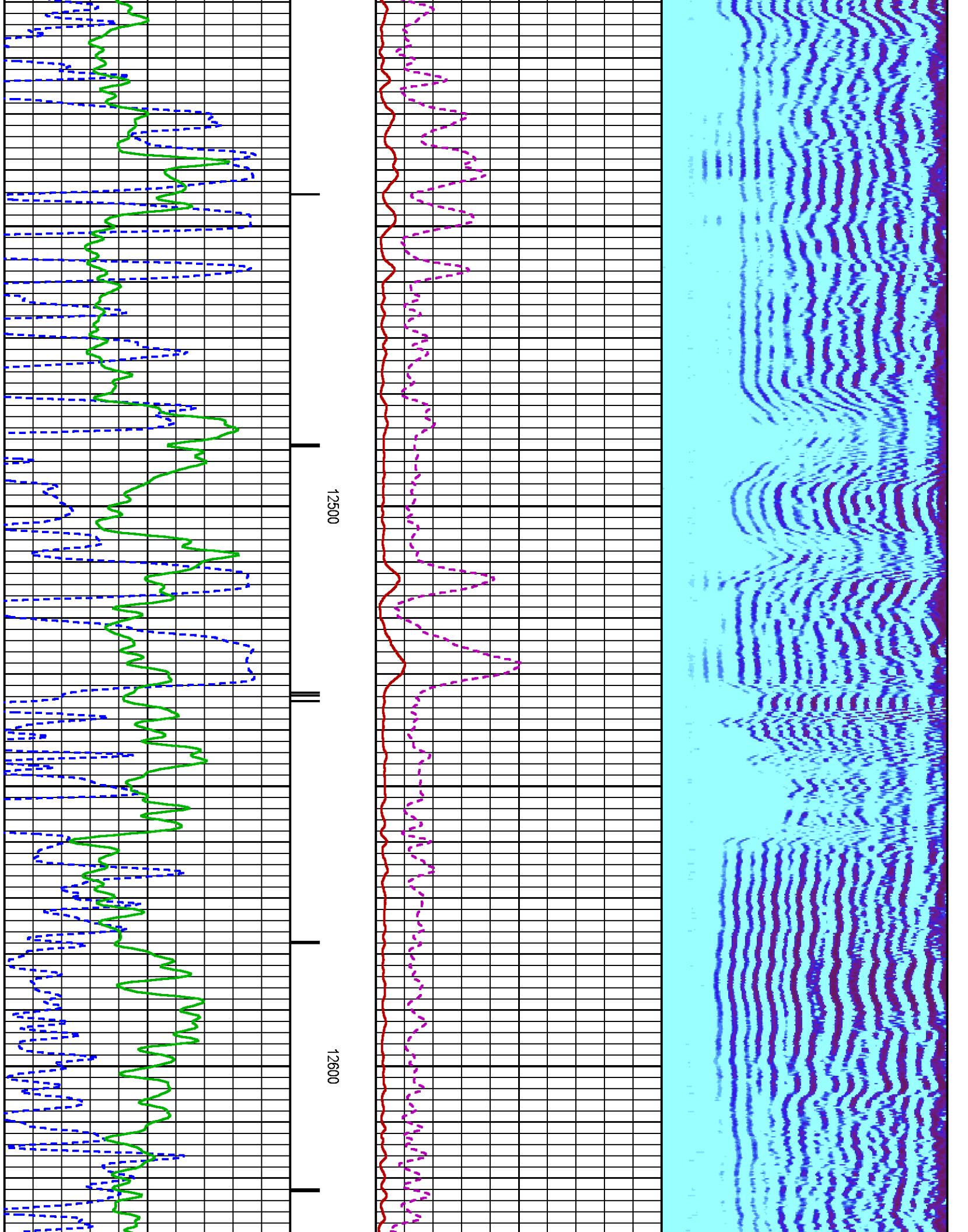


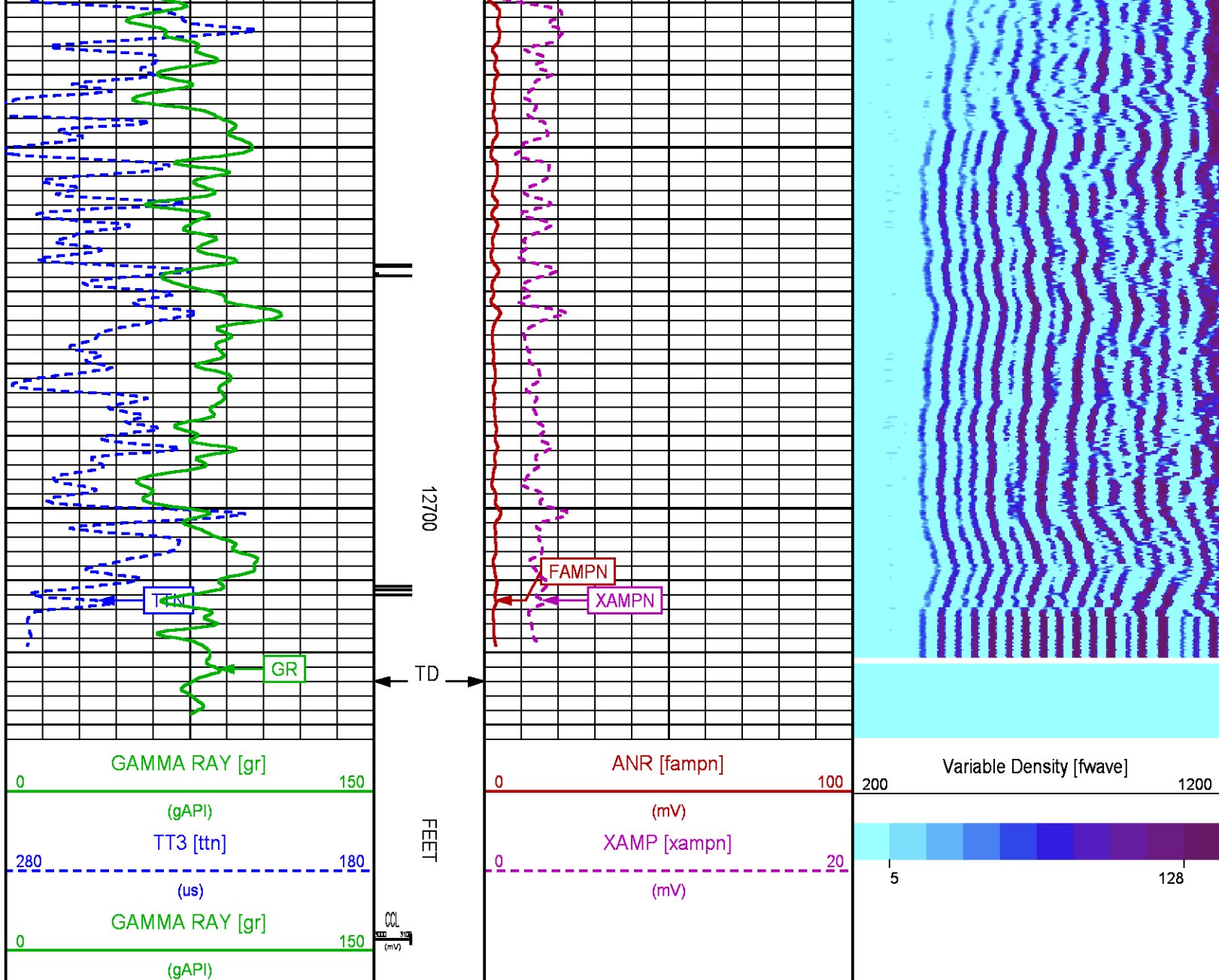












SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 46 Patches: 5

Plotted: Mon Feb 23 11:52:37 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\094614\012g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 14.750 ft BOTTOM DEPTH: 8715.297 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*)	186	us	TOP	5655.750	
		187	us	5655.750	5656.500	
		188	us	5656.500	5658.000	
		189	us	5658.000	5658.500	
		190	us	5658.500	5658.750	
		192	us	5658.750	5659.000	
		193	us	5659.000	5659.250	
		194	us	5659.250	5659.500	
		195	us	5659.500	5659.750	
		196	us	5659.750	5660.000	
		197	us	5660.000	5660.250	
		199	us	5660.250	5660.750	
		200	us	5660.750	5661.000	
		202	us	5661.000	5661.250	
		203	us	5661.250	BOTTOM	
		AMP WINDOW START (fgp2*)	186	us	TOP	5655.750
			187	us	5655.750	5656.500
			188	us	5656.500	5658.000
			189	us	5658.000	5658.500
			190	us	5658.500	5658.750
	192		us	5658.750	5659.000	
	193		us	5659.000	5659.250	
	194		us	5659.250	5659.500	
	195		us	5659.500	5659.750	
	196		us	5659.750	5660.000	
	197		us	5660.000	5660.250	
	199		us	5660.250	5660.750	
	200		us	5660.750	5661.000	
	202		us	5661.000	5661.250	
	203		us	5661.250	BOTTOM	
	AMP WINDOW START (fgp3*)		186	us	TOP	5655.750
			187	us	5655.750	5656.500
			188	us	5656.500	5658.000
			189	us	5658.000	5658.500
			190	us	5658.500	5658.750
		192	us	5658.750	5659.000	
		193	us	5659.000	5659.250	
		194	us	5659.250	5659.500	
		195	us	5659.500	5659.750	
		196	us	5659.750	5660.000	
		197	us	5660.000	5660.250	
		199	us	5660.250	5660.750	
		200	us	5660.750	5661.000	
		202	us	5661.000	5661.250	
		203	us	5661.250	BOTTOM	
		AMP WINDOW START (fgp4*)	186	us	TOP	5655.750
			187	us	5655.750	5656.500
			188	us	5656.500	5658.000
			189	us	5658.000	5658.500
			190	us	5658.500	5658.750
	192		us	5658.750	5659.000	
	193		us	5659.000	5659.250	
	194		us	5659.250	5659.500	
	195		us	5659.500	5659.750	
	196		us	5659.750	5660.000	
	197		us	5660.000	5660.250	
	199		us	5660.250	5660.750	
	200		us	5660.750	5661.000	
	202		us	5661.000	5661.250	
	203		us	5661.250	BOTTOM	
	AMP WINDOW START (fgp5*)		186	us	TOP	5655.750
			187	us	5655.750	5656.500
			188	us	5656.500	5658.000
			189	us	5658.000	5658.500
			190	us	5658.500	5658.750
		192	us	5658.750	5659.000	
		193	us	5659.000	5659.250	
		194	us	5659.250	5659.500	
		195	us	5659.500	5659.750	
		196	us	5659.750	5660.000	
		197	us	5660.000	5660.250	
		199	us	5660.250	5660.750	
		201	us	5660.750	5661.000	
		202	us	5661.000	5661.250	
		203	us	5661.250	BOTTOM	
		AMP WINDOW START (fgp6*)	186	us	TOP	5655.750
			187	us	5655.750	5656.500
			188	us	5656.500	5658.000
			189	us	5658.000	5658.500
			190	us	5658.500	5658.750
	192		us	5658.750	5659.000	
	193		us	5659.000	5659.250	
	194		us	5659.250	5659.500	
	195		us	5659.500	5659.750	
	196		us	5659.750	5660.000	

		193	us	5659.000	5659.250
		194	us	5659.250	5659.500
		195	us	5659.500	5659.750
		196	us	5659.750	5660.000
		197	us	5660.000	5660.250
		199	us	5660.250	5660.750
		201	us	5660.750	5661.000
		202	us	5661.000	5661.250
		203	us	5661.250	BOTTOM
	AMP WINDOW START (fgp7*)	186	us	TOP	5655.750
		187	us	5655.750	5656.500
		188	us	5656.500	5658.000
		189	us	5658.000	5658.500
		190	us	5658.500	5658.750
		192	us	5658.750	5659.000
		193	us	5659.000	5659.250
		194	us	5659.250	5659.500
		195	us	5659.500	5659.750
		196	us	5659.750	5660.000
		197	us	5660.000	5660.250
		199	us	5660.250	5660.750
		201	us	5660.750	5661.000
		202	us	5661.000	5661.250
		203	us	5661.250	BOTTOM
	AMP WINDOW START (fgp8*)	186	us	TOP	5655.750
		187	us	5655.750	5656.500
		188	us	5656.500	5658.000
		189	us	5658.000	5658.500
		190	us	5658.500	5658.750
		192	us	5658.750	5659.000
		193	us	5659.000	5659.250
		194	us	5659.250	5659.500
		195	us	5659.500	5659.750
		196	us	5659.750	5660.000
		197	us	5660.000	5660.250
		199	us	5660.250	5660.750
		201	us	5660.750	5661.000
		202	us	5661.000	5661.250
		203	us	5661.250	BOTTOM
	AMP WINDOW START (fgpn*)	186	us	TOP	5655.750
		187	us	5655.750	5656.500
		188	us	5656.500	5658.000
		189	us	5658.000	5658.500
		191	us	5658.500	5658.750
		192	us	5658.750	5659.000
		193	us	5659.000	5659.250
		194	us	5659.250	5659.500
		195	us	5659.500	5659.750
		196	us	5659.750	5660.000
		197	us	5660.000	5660.250
		199	us	5660.250	5660.750
		201	us	5660.750	5661.000
		202	us	5661.000	5661.250
		203	us	5661.250	BOTTOM
	AMP WINDOW LENGTH	25	us	TOP	BOTTOM
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	172	us	TOP	5617.500
		171	us	5617.500	5617.750
		170	us	5617.750	5618.000
		169	us	5618.000	5618.250
		168	us	5618.250	5618.500
		167	us	5618.500	5618.750
		166	us	5618.750	5619.000
		164	us	5619.000	5619.500
		163	us	5619.500	5620.750
		112	us	5620.750	5623.250
		111	us	5623.250	5623.500
		110	us	5623.500	5624.750
		175	us	5624.750	BOTTOM
	TT WINDOW LENGTH	500	us	TOP	BOTTOM
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	TOP	5634.750
		215.678	us	5634.750	BOTTOM
RAL TOOL DELAY	TOOL DELAY (str1*)	-74	us	TOP	BOTTOM
	TOOL DELAY (str2*)	-74	us	"	"
	TOOL DELAY (str3*)	-74	us	"	"
	TOOL DELAY (str4*)	-74	us	"	"
	TOOL DELAY (str5*)	-74	us	"	"
	TOOL DELAY (str6*)	-74	us	"	"
	TOOL DELAY (str7*)	-74	us	"	"
	TOOL DELAY (str8*)	-74	us	"	"
	TOOL DELAY (strn*)	-74	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	140	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

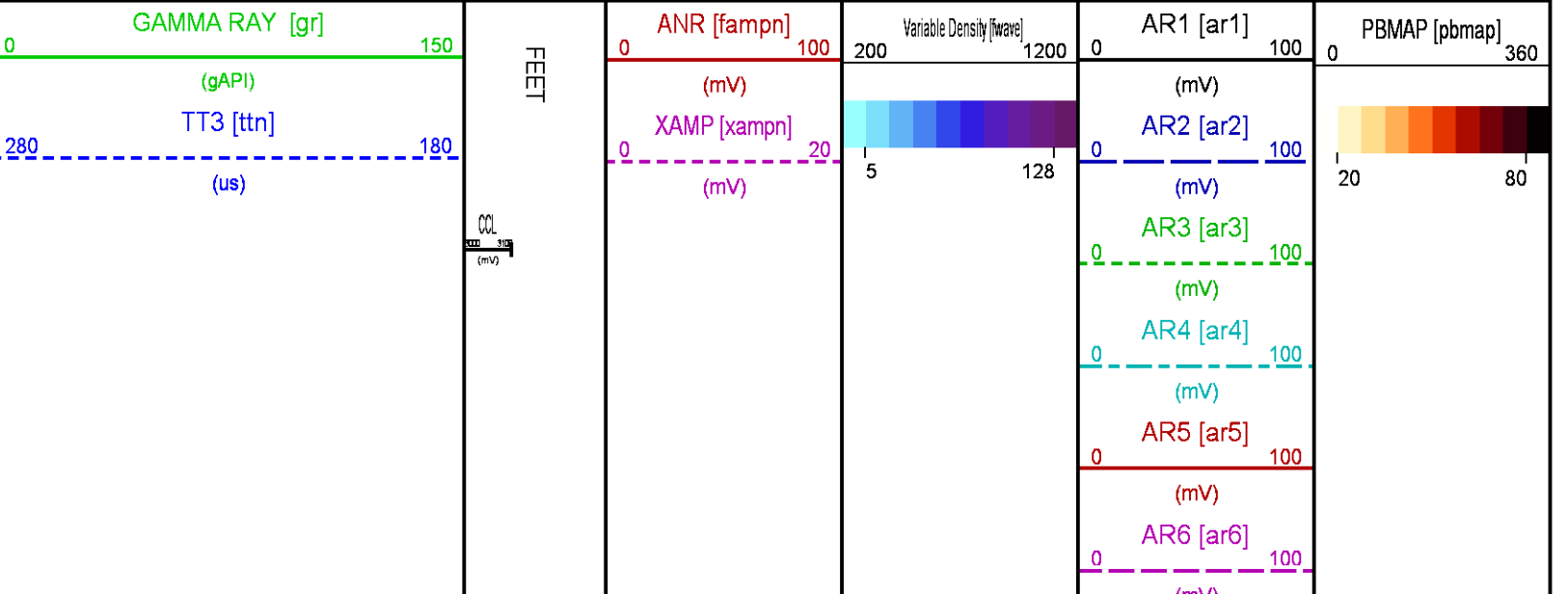
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"

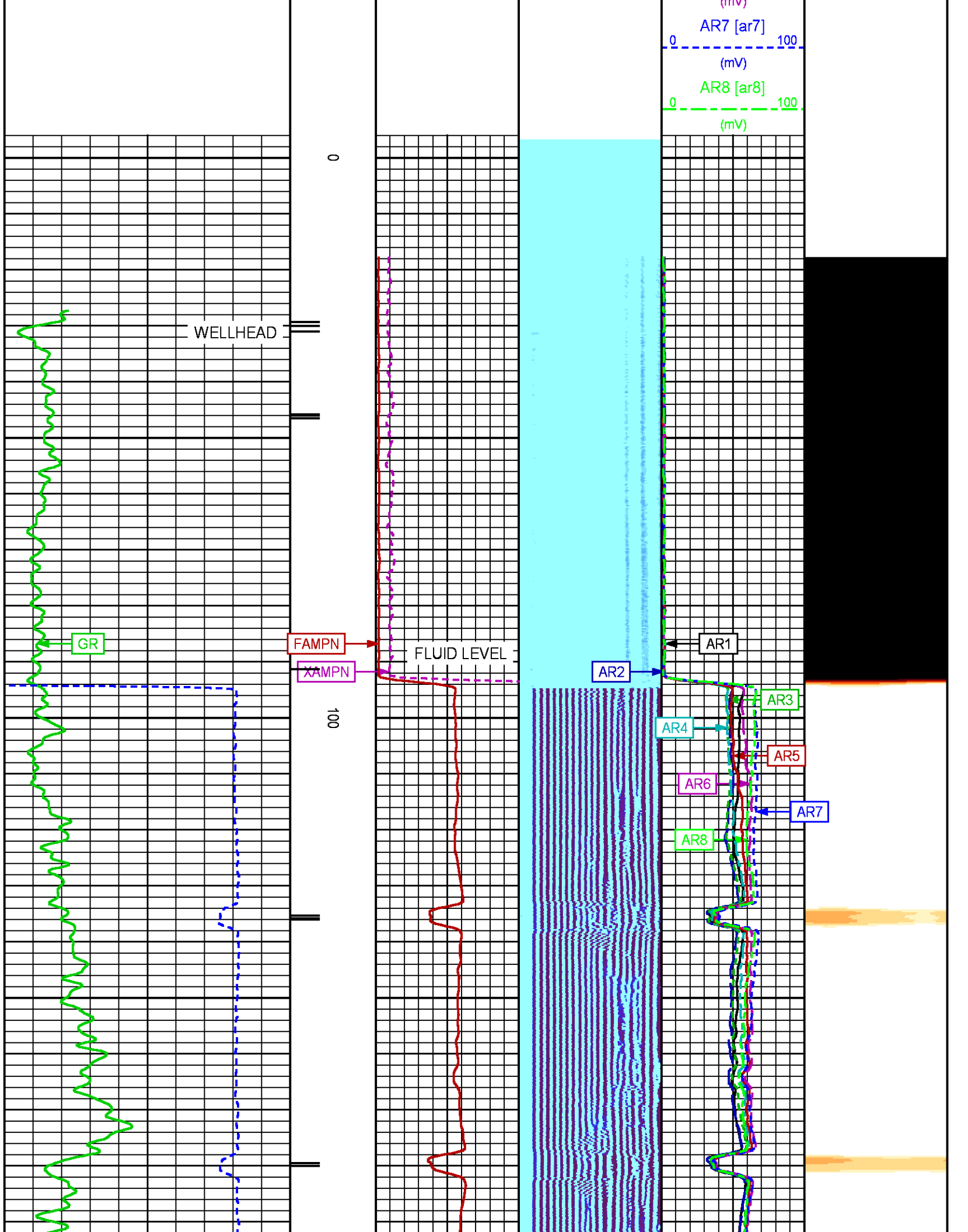
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	4	mV	"	"
	FULL BOND AMP REC 2	4	mV	"	"
	FULL BOND AMP REC 3	4	mV	"	"
	FULL BOND AMP REC 4	4	mV	"	"
	FULL BOND AMP REC 5	4	mV	"	"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

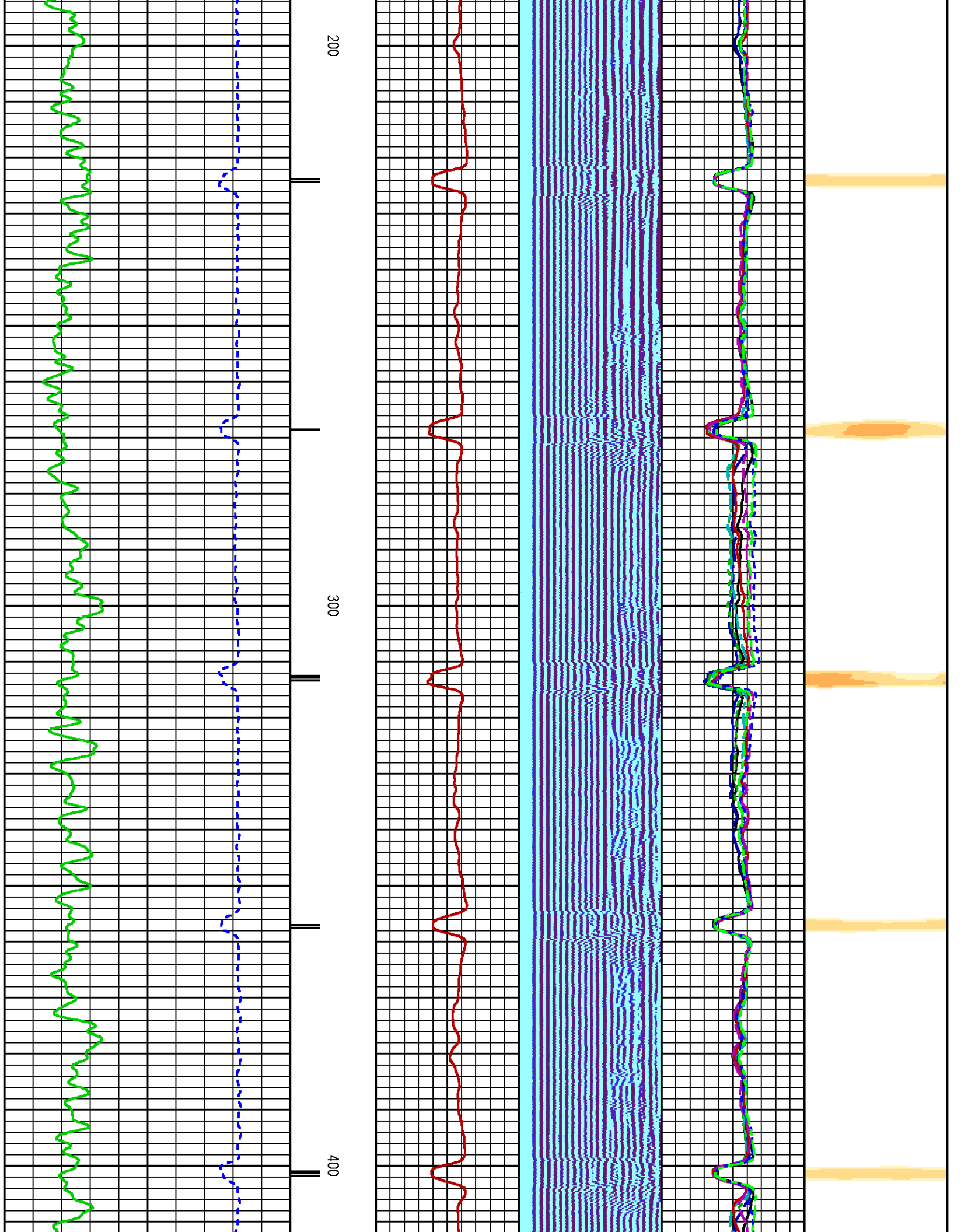
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Feb 23 11:12:42 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Feb 23 11:12:42 2015	CASING COLLAR LOCATOR
F1:FAMPN	Feb 23 11:12:43 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 23 11:12:43 2015	FAR WAVE FORM
F1:GR	Feb 23 11:12:43 2015	GAMMA RAY
F1:PBMAP	Feb 23 11:12:44 2015	PERCENT BOND CEMENT MAP
F1:TTN	Feb 23 11:12:44 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 23 11:12:44 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

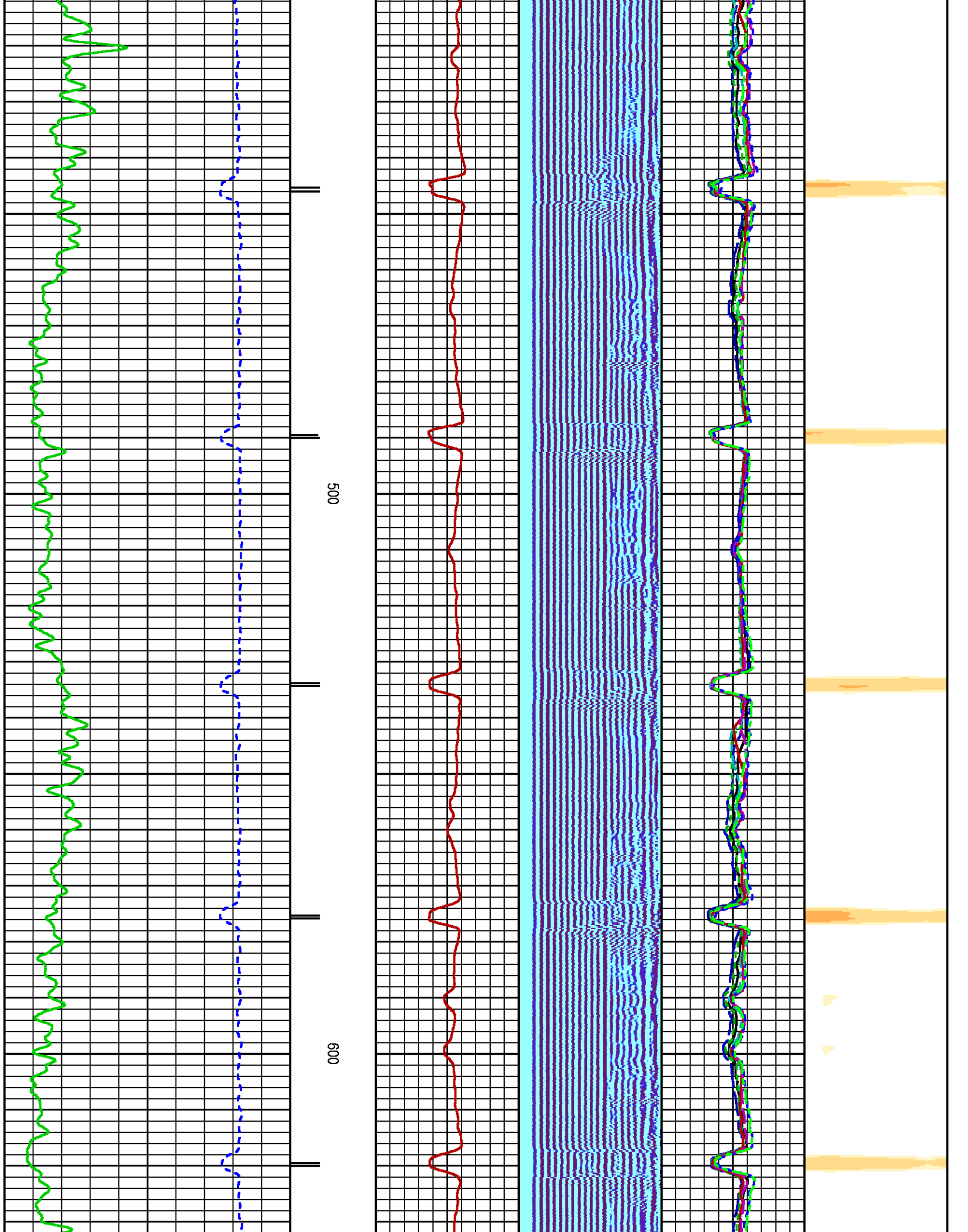
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

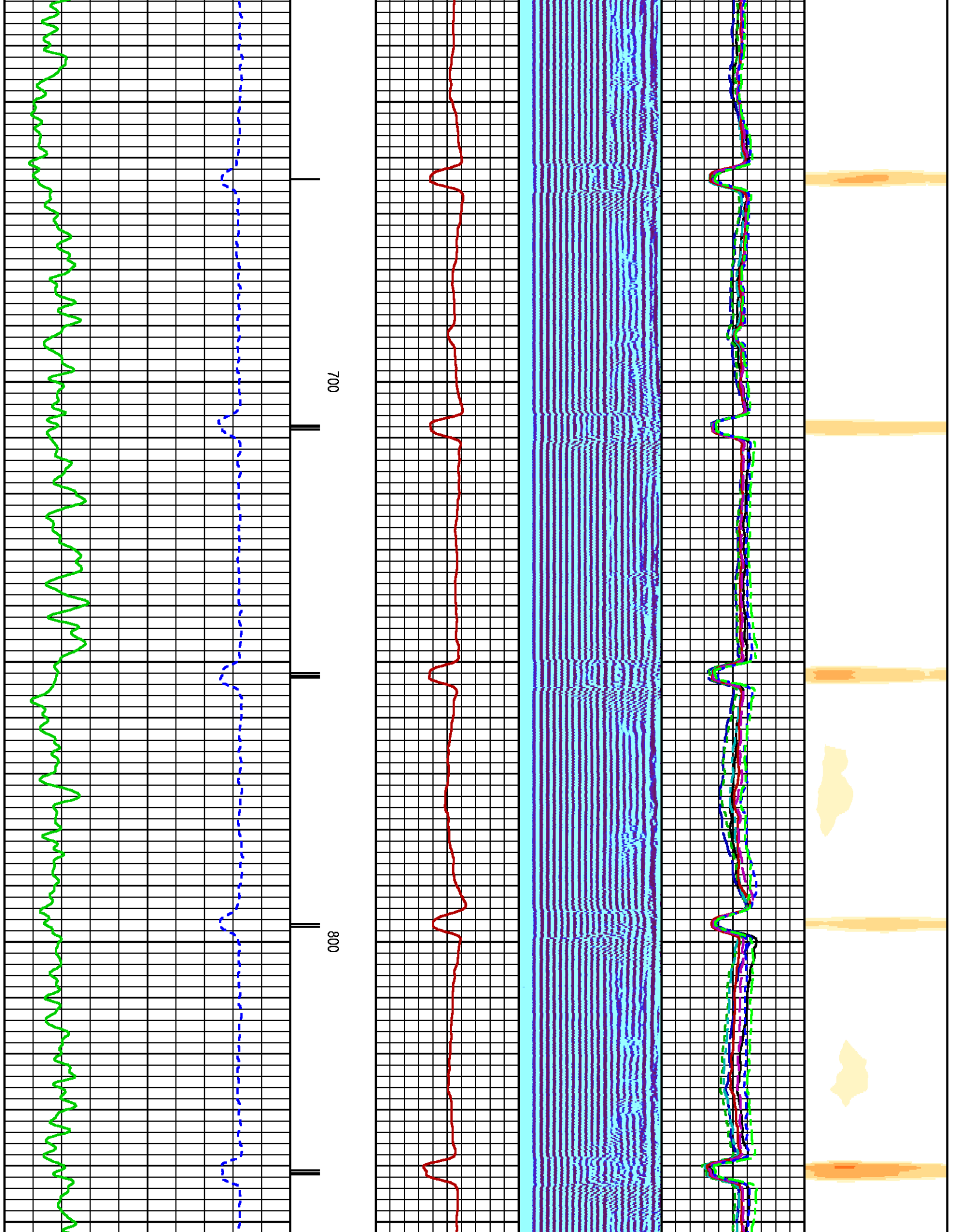
Presentation	: BHUGHES-06627:C:\dat1a\094614\333_CBL_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval	: -3.25 - 12731.8 Feet
Data File 1	: F1 : BHUGHES-06627:C:\dat1a\094614\333CBLMAIN.xtf
Created On	: Feb 23 11:12:42 2015
Company	: WPX ENERGY
Well	: FEDERAL RGU 333-23-198
Field	: SULPHUR CREEK
File Interval	: -3.25 - 12731.8 Feet
OCT	: n012g

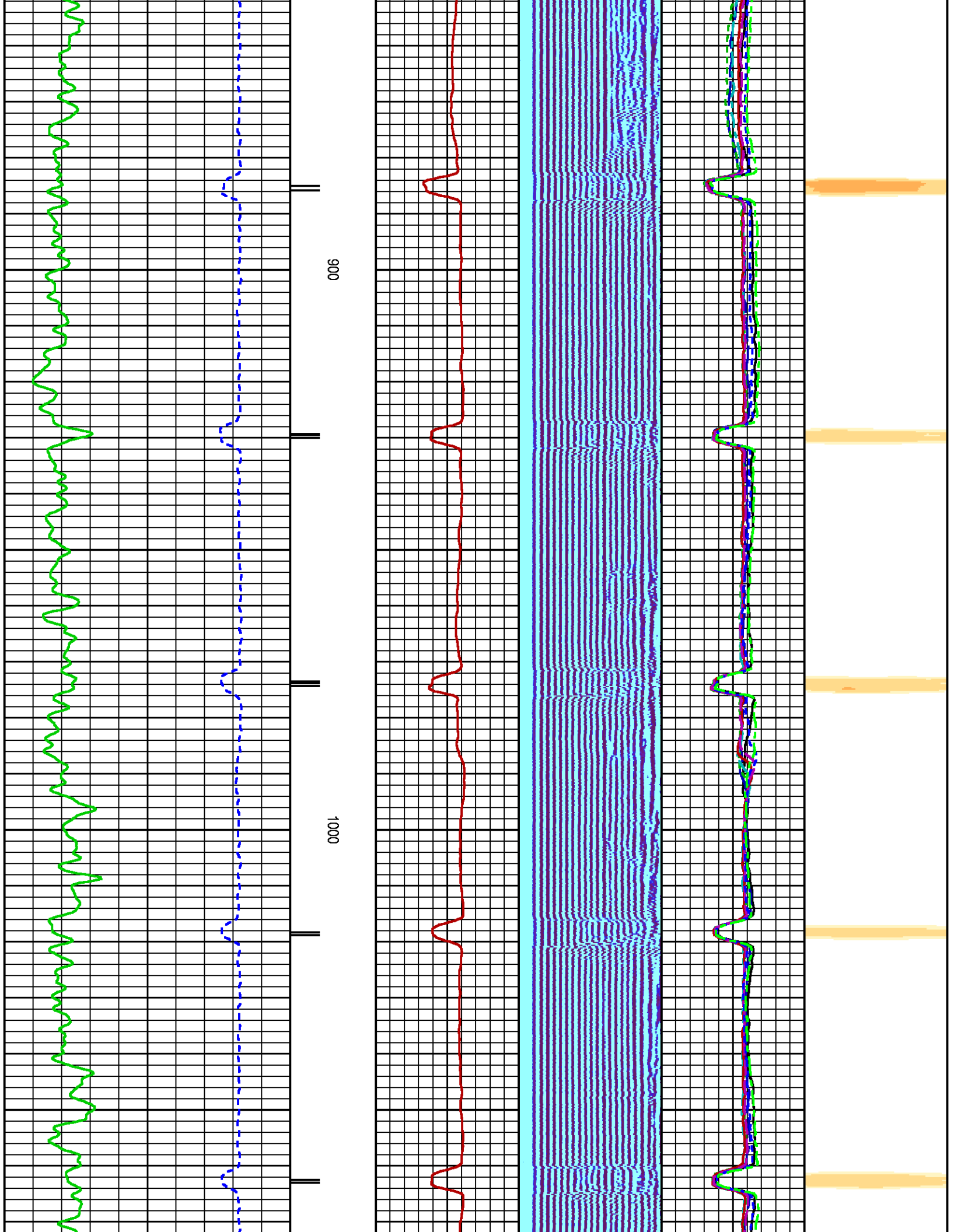


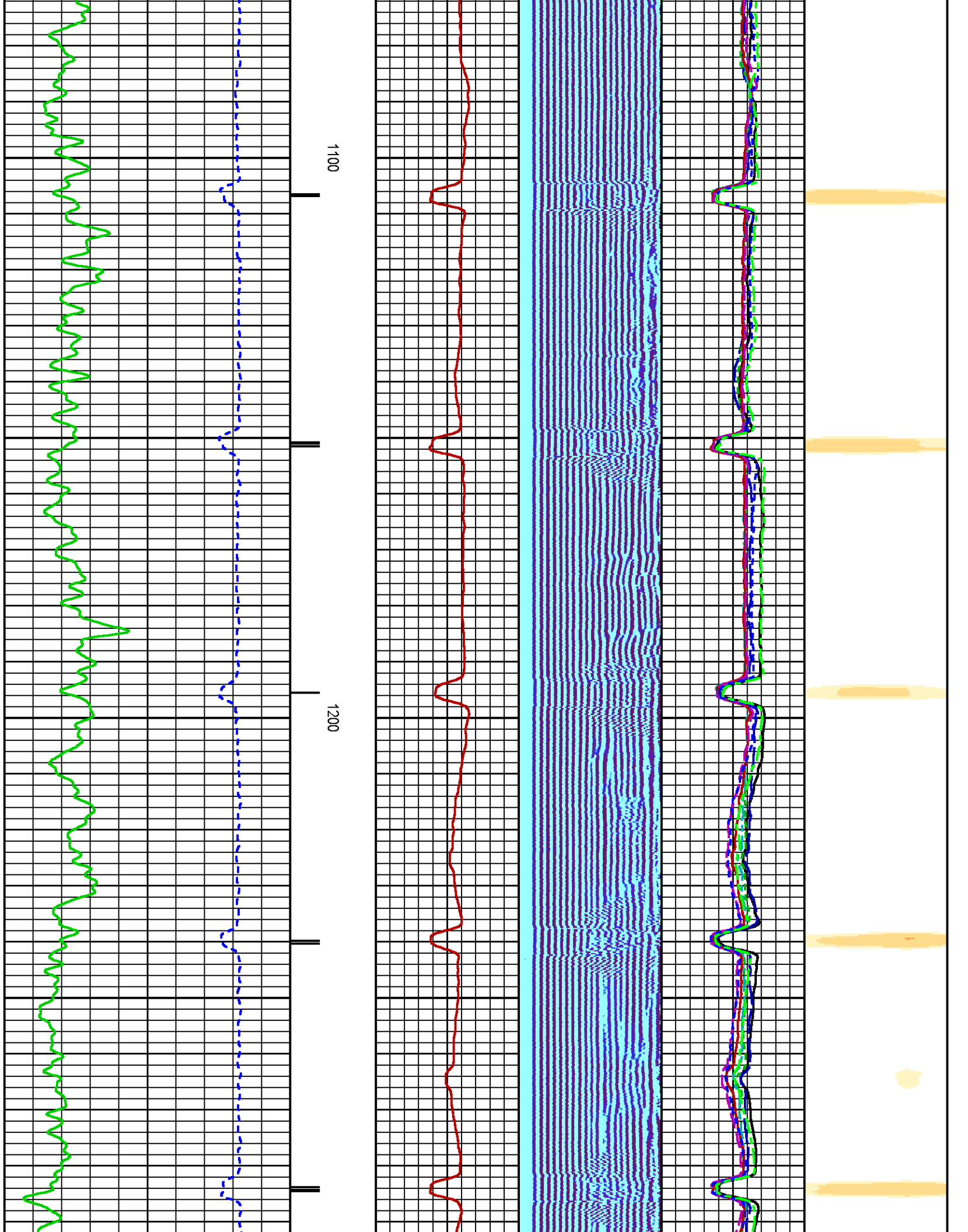


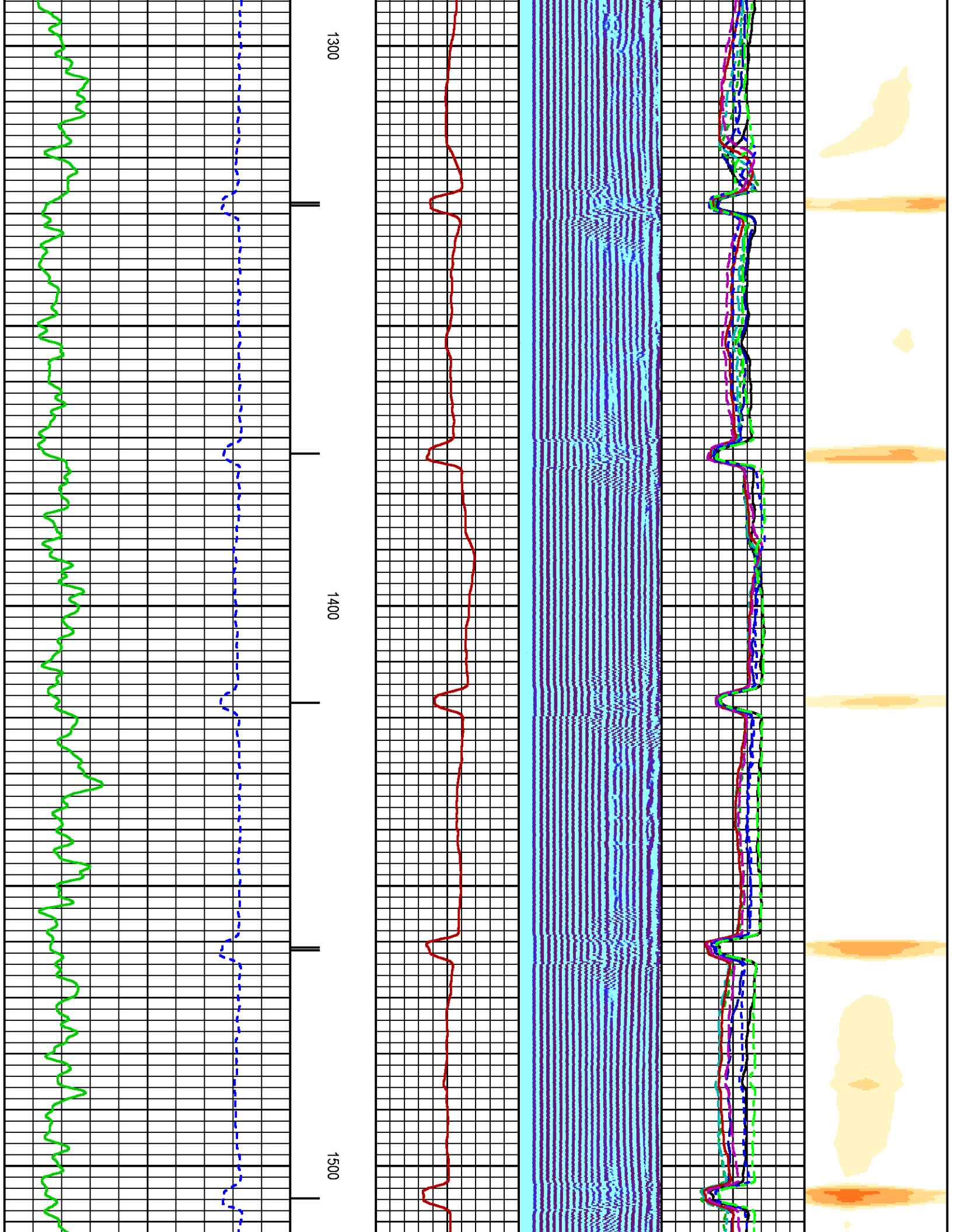


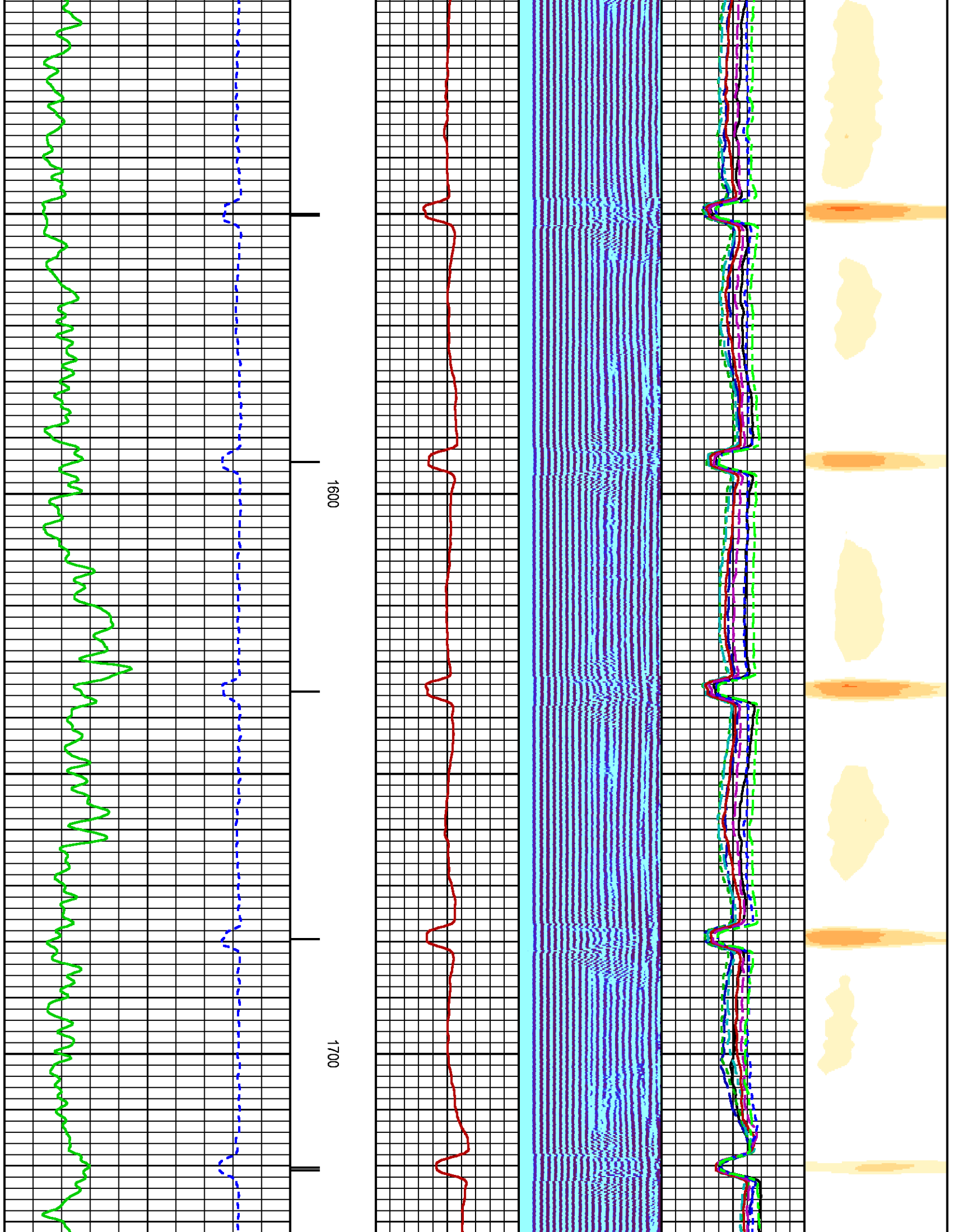


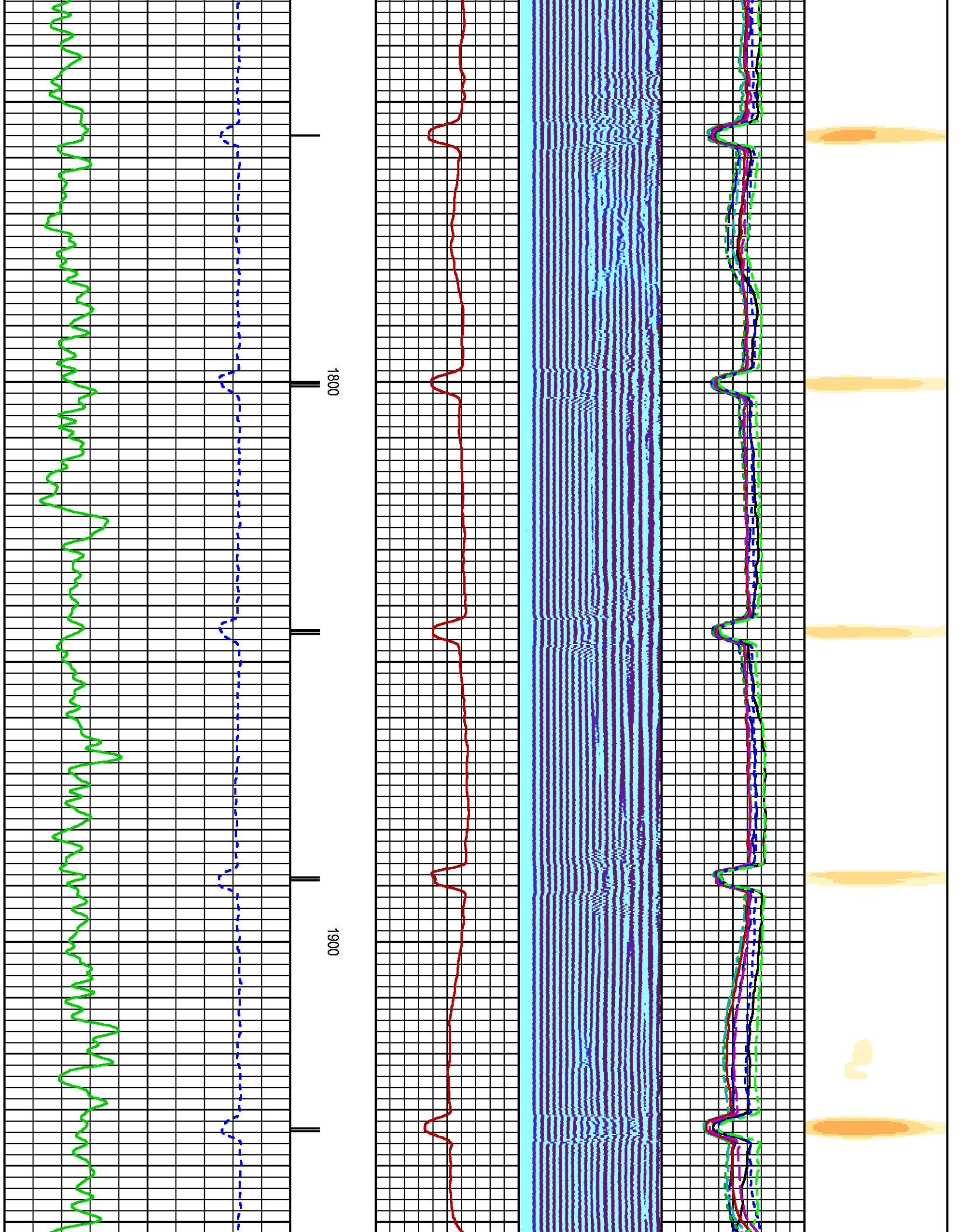


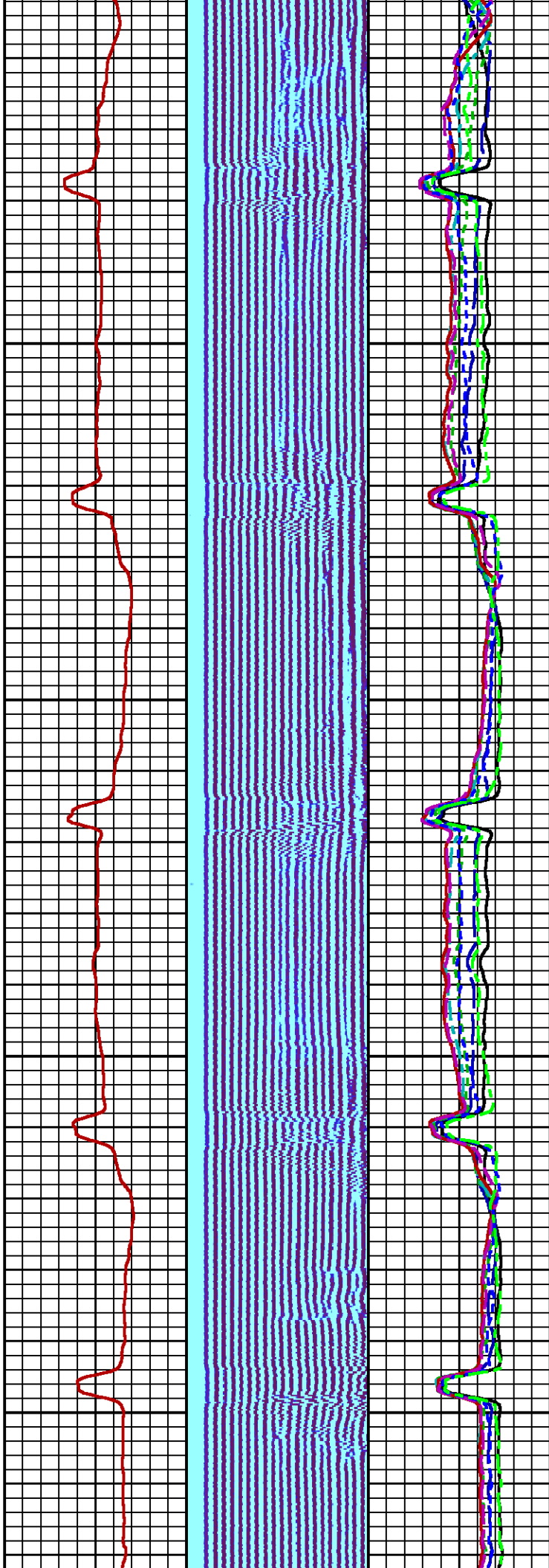
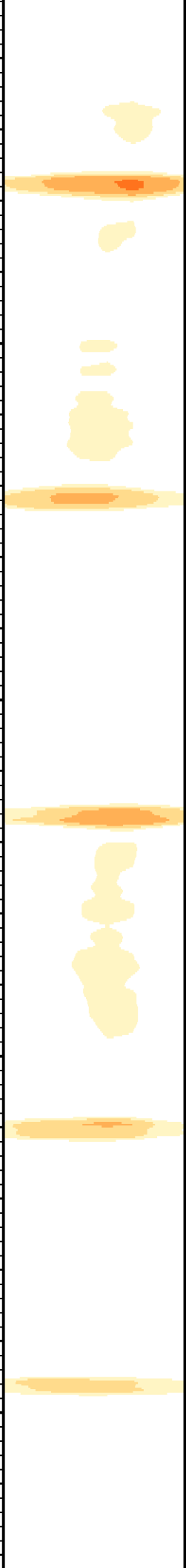


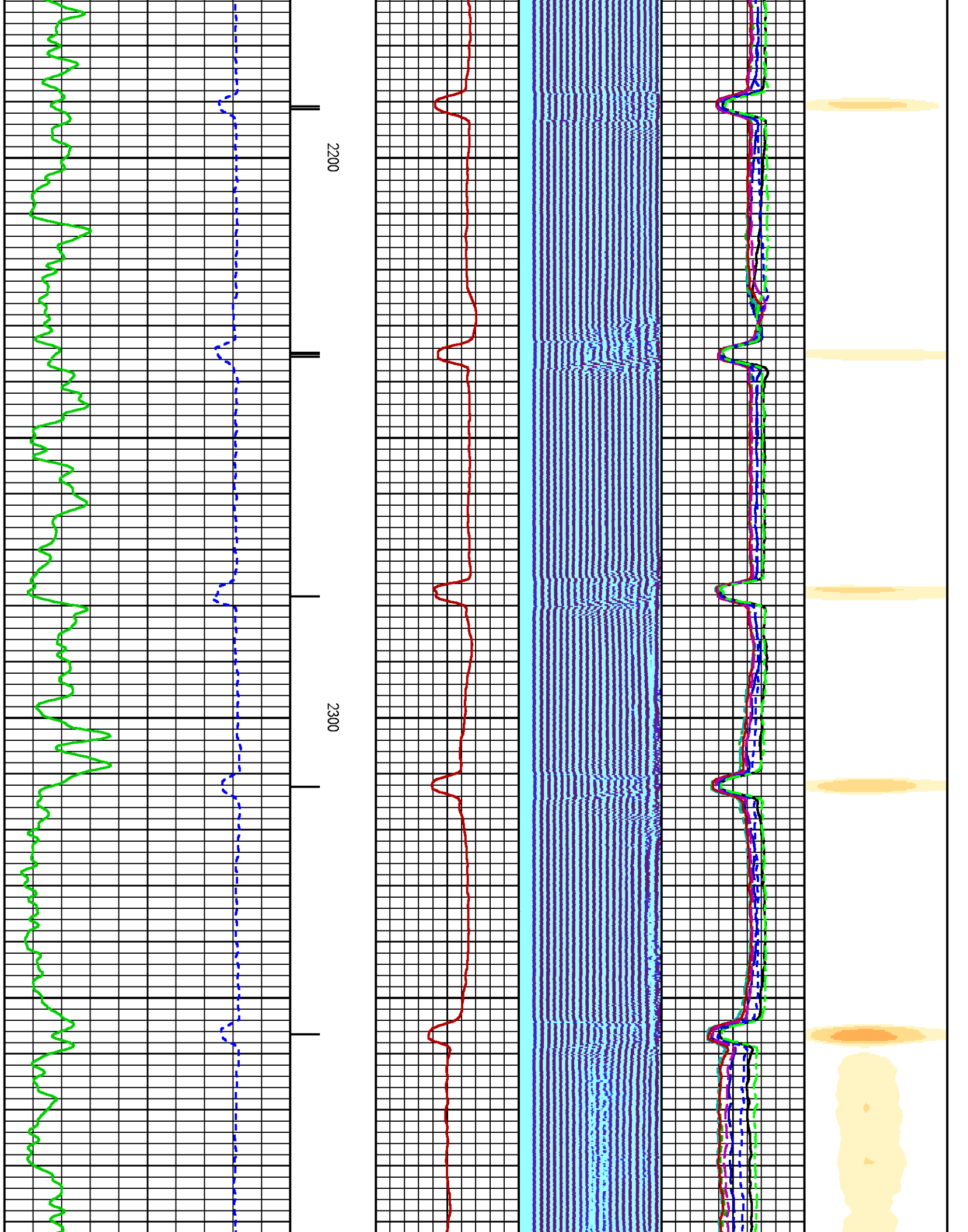


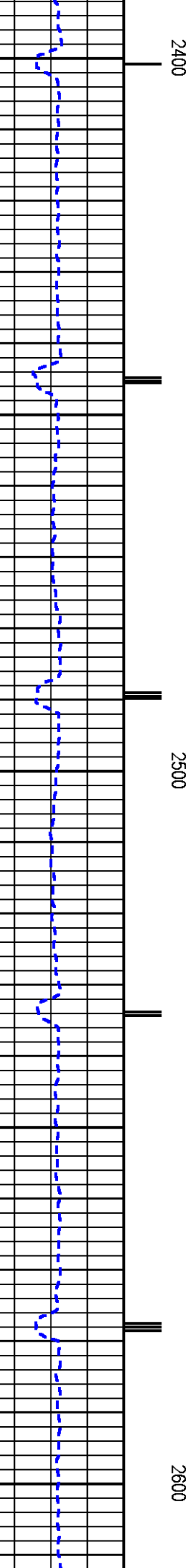
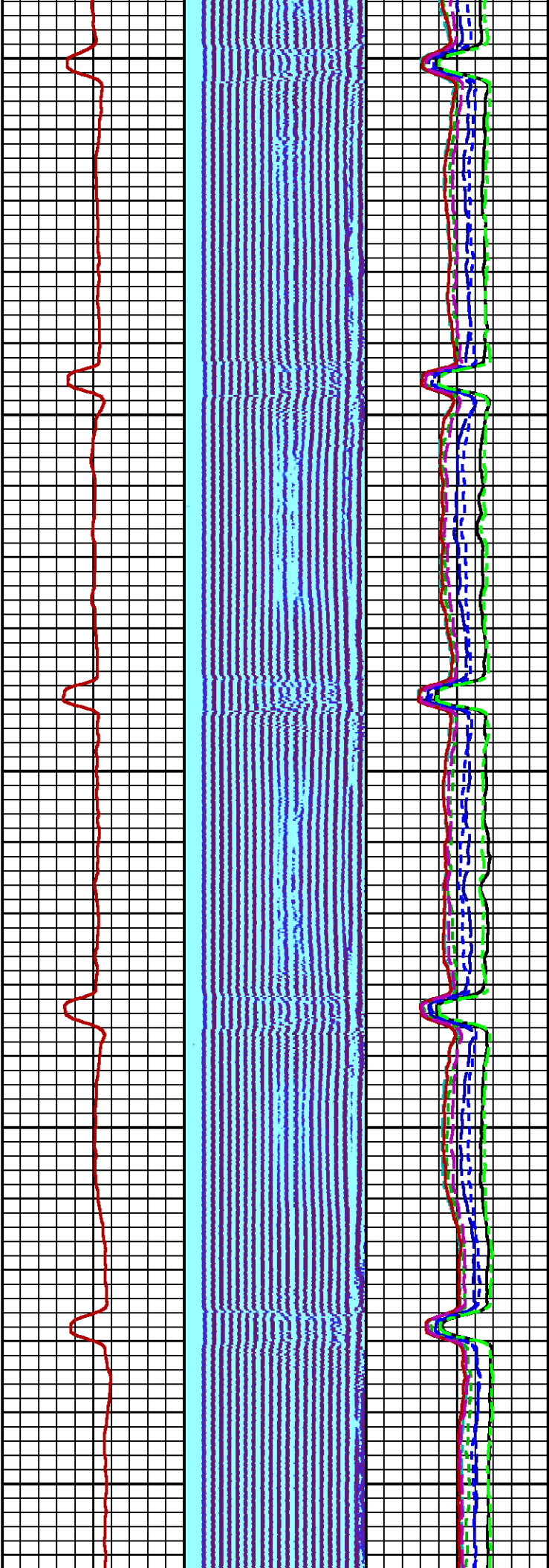
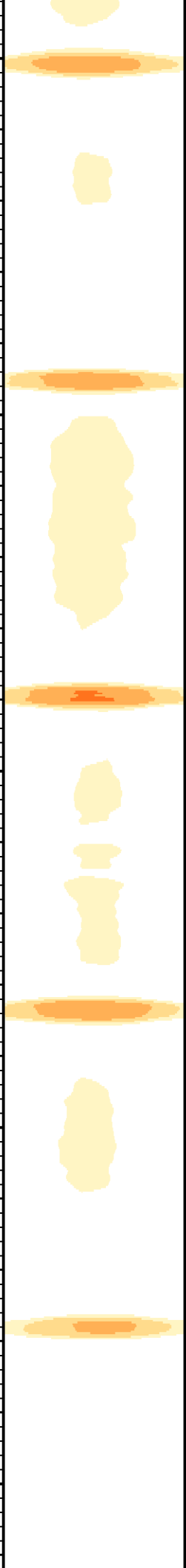


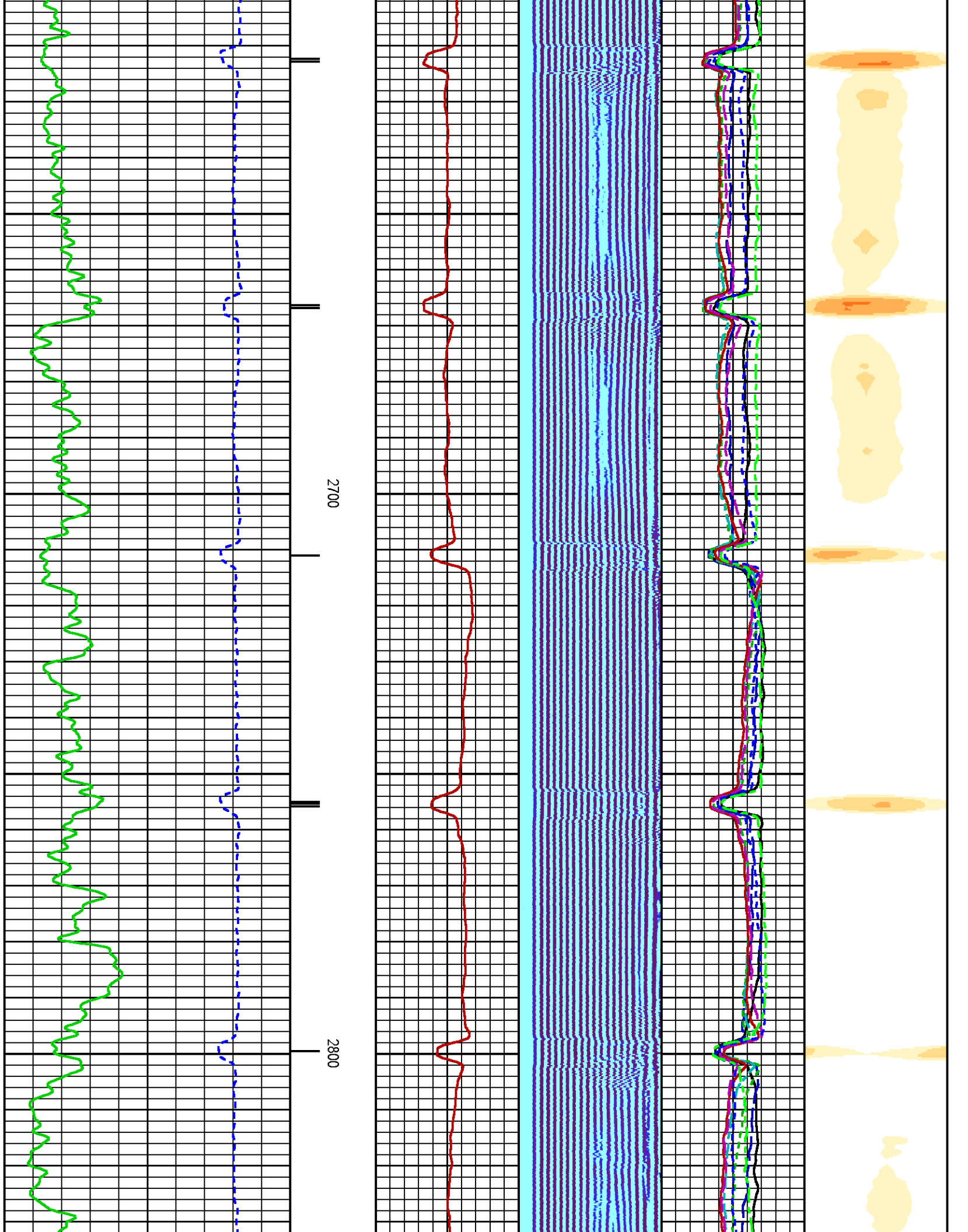


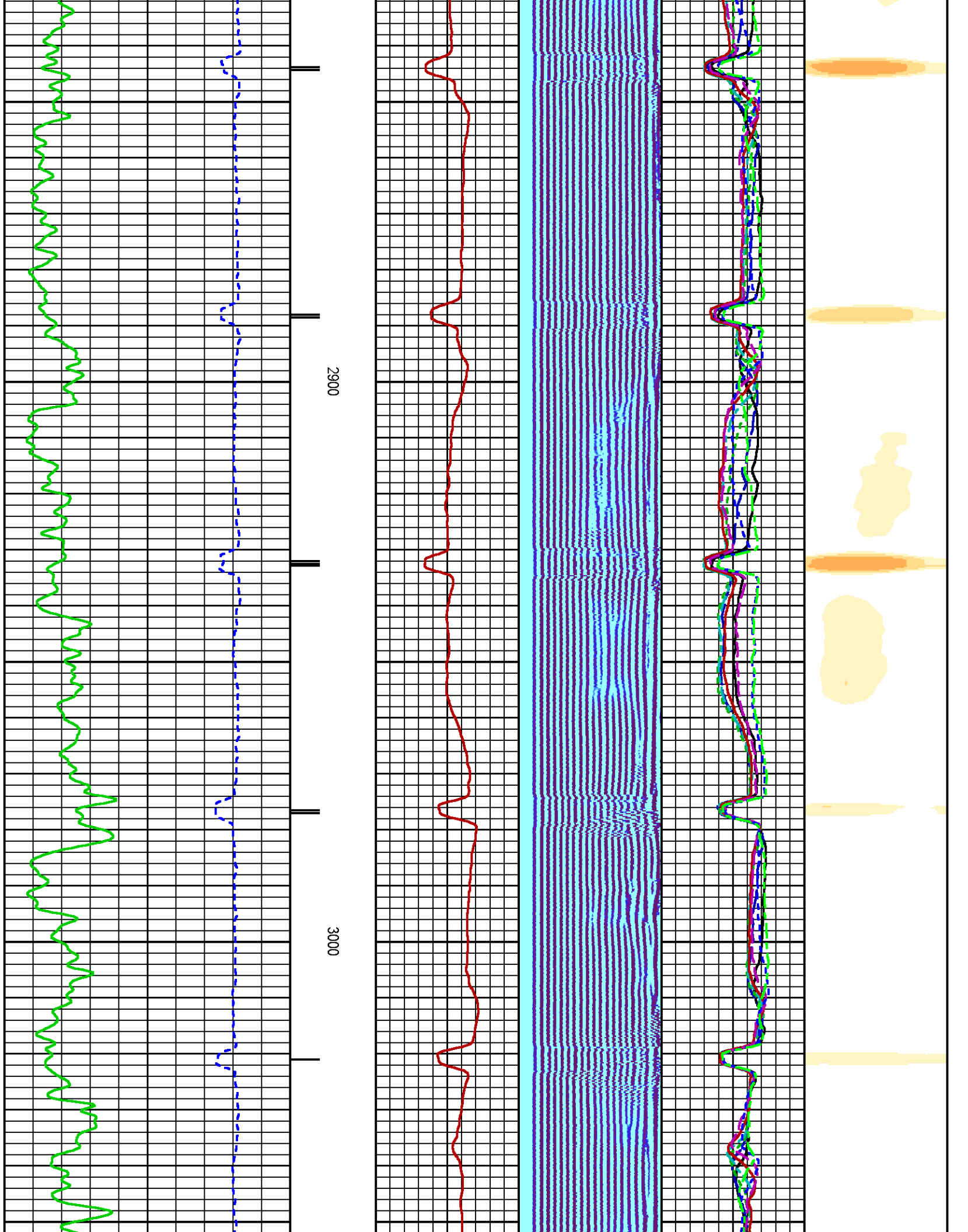


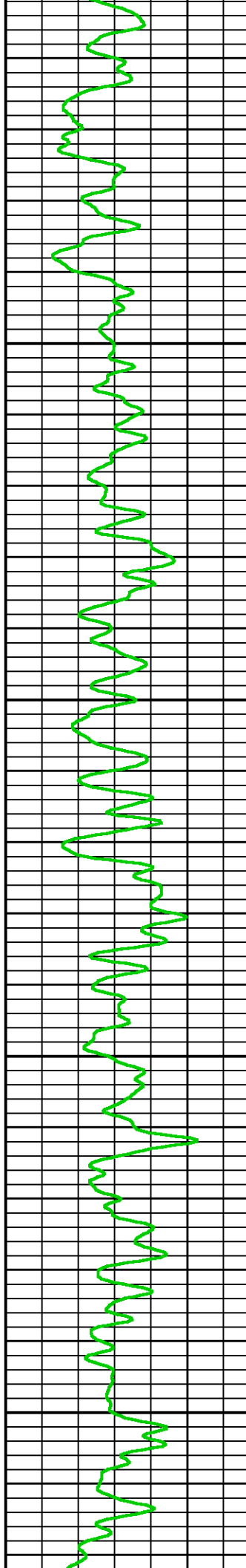
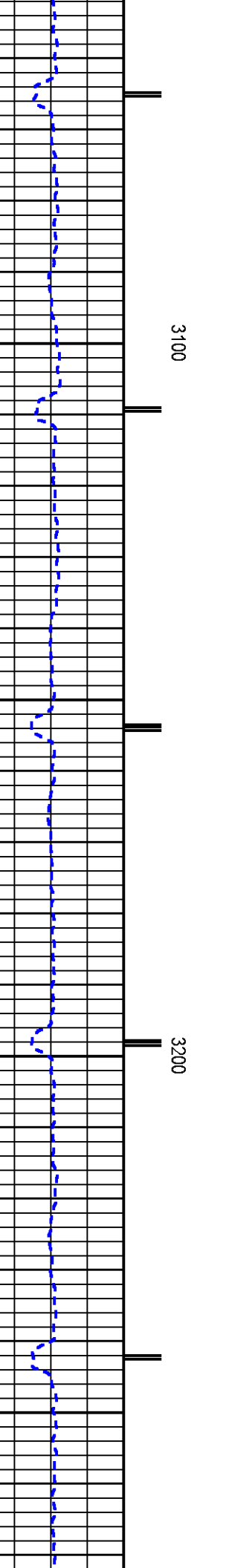
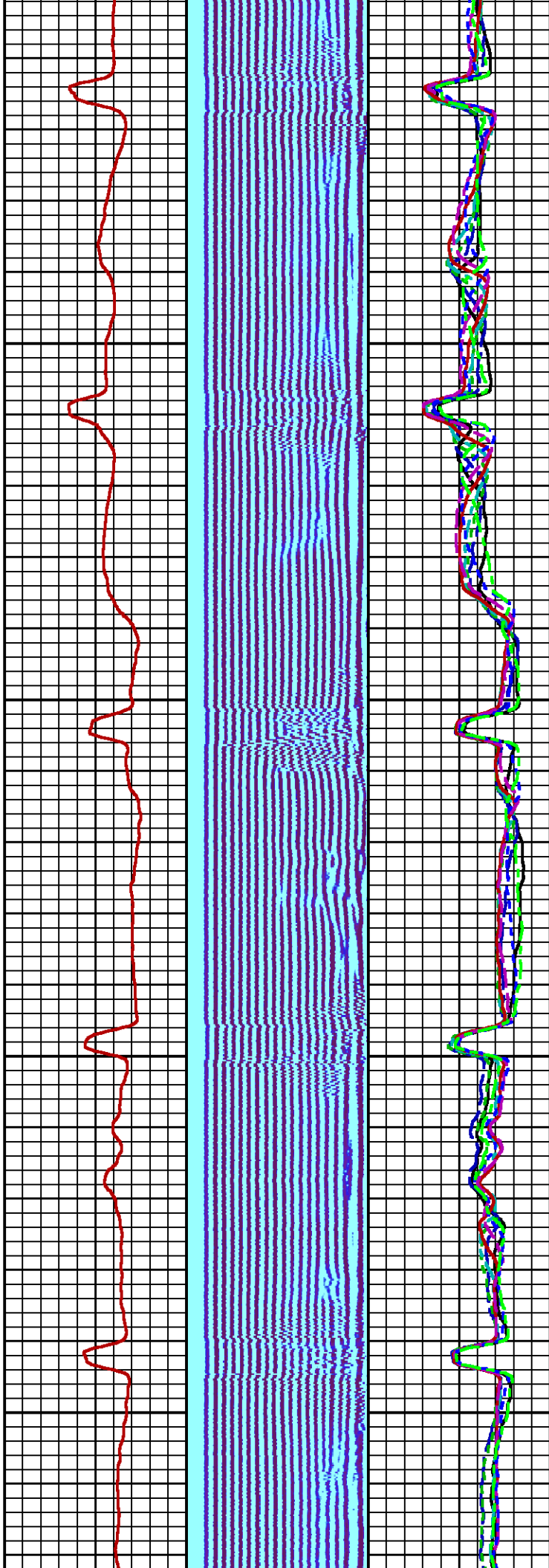
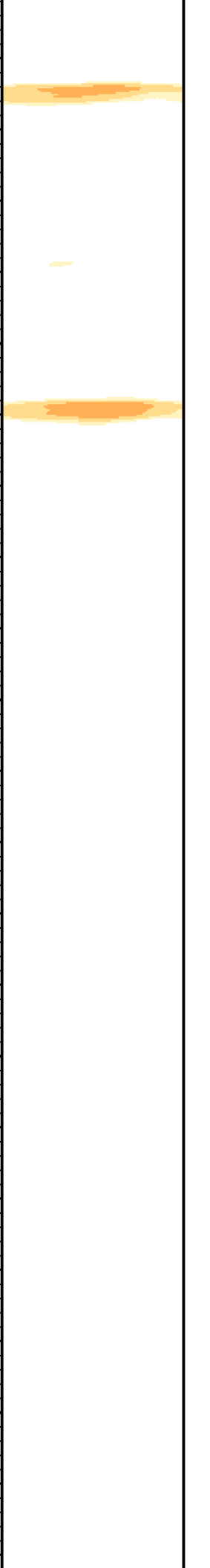


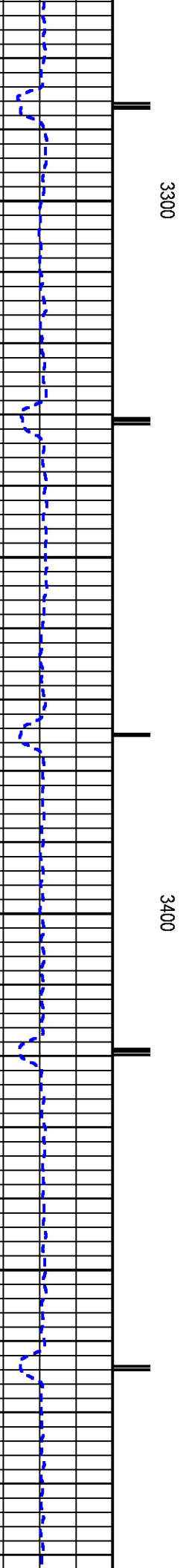
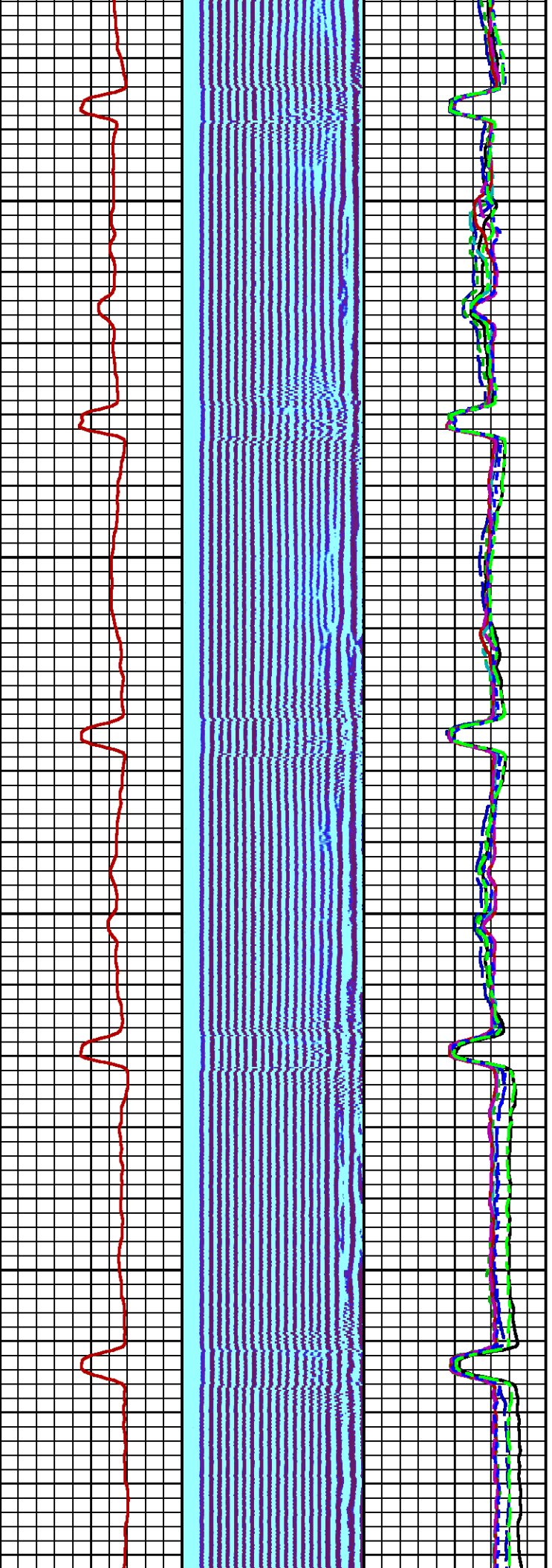


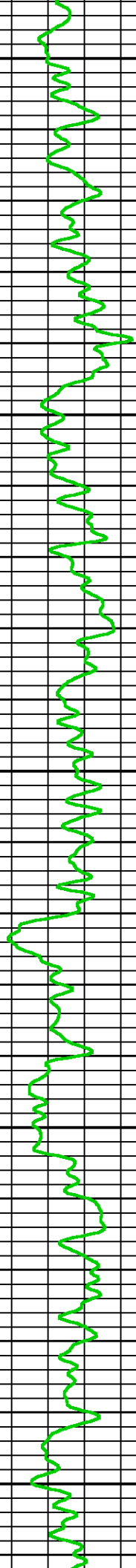
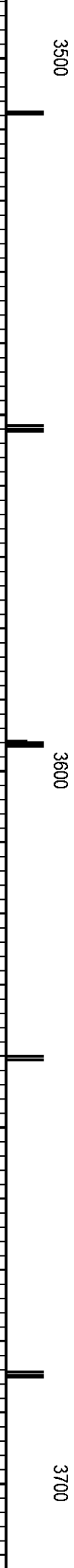
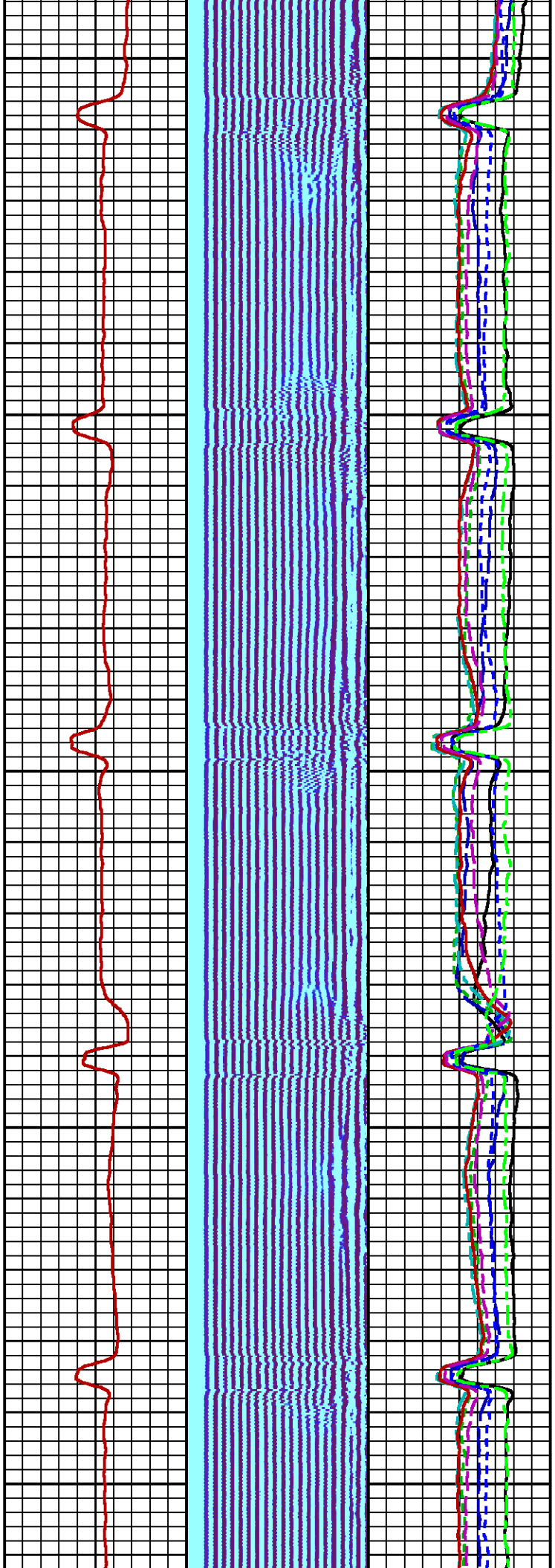


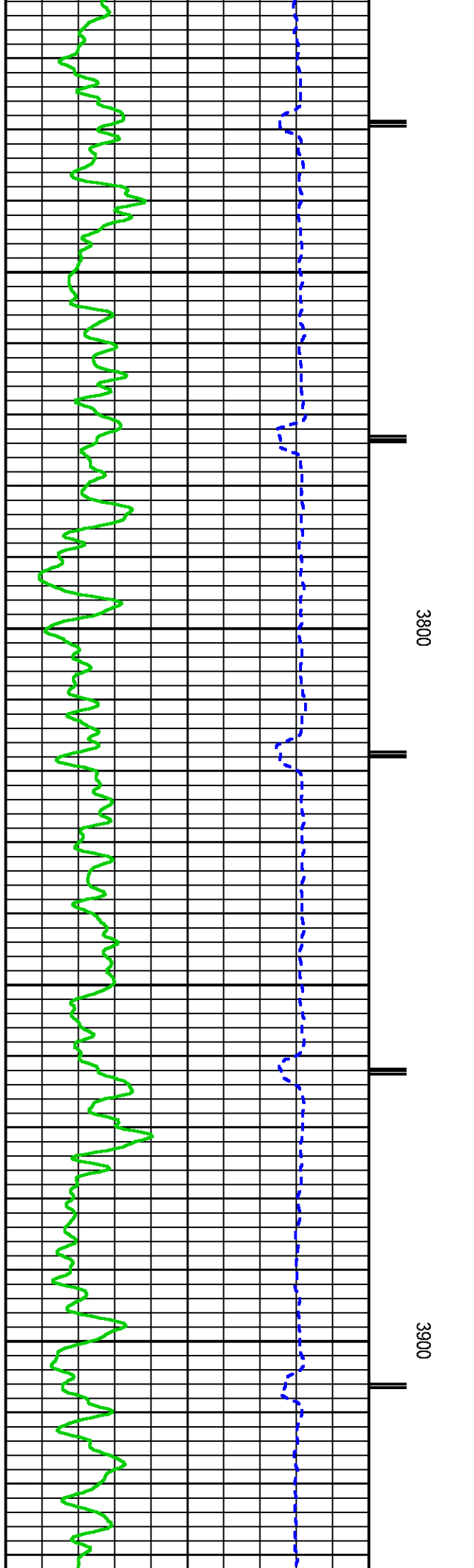
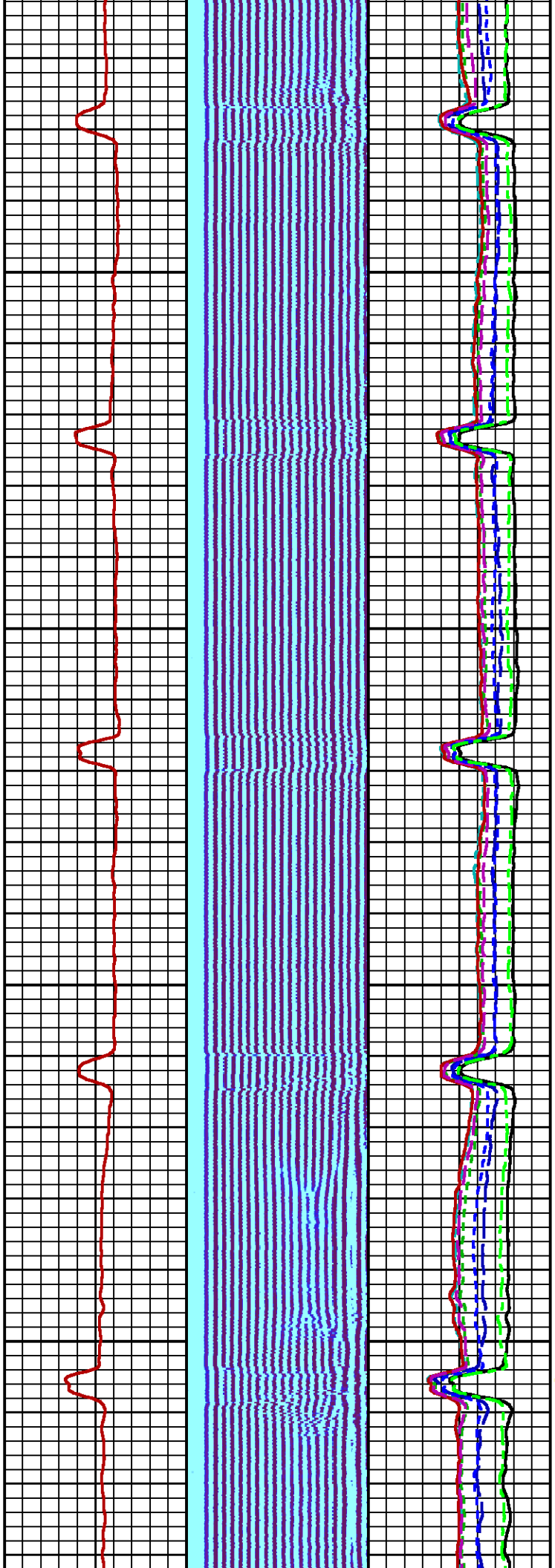


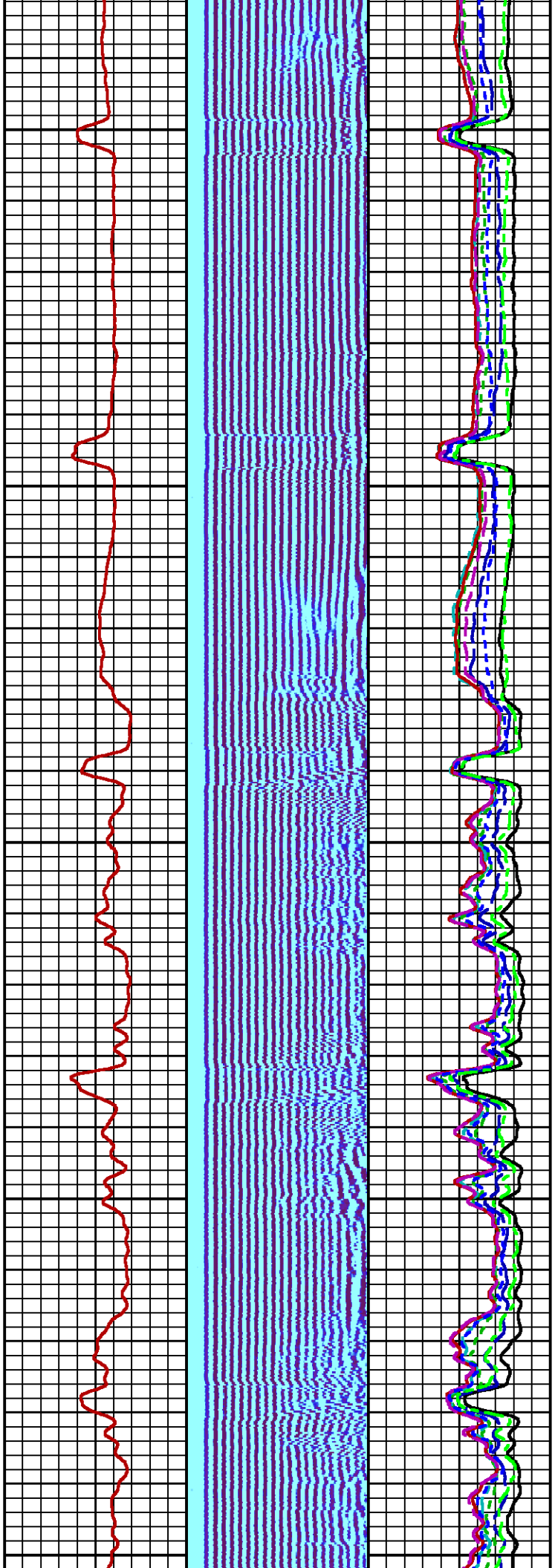






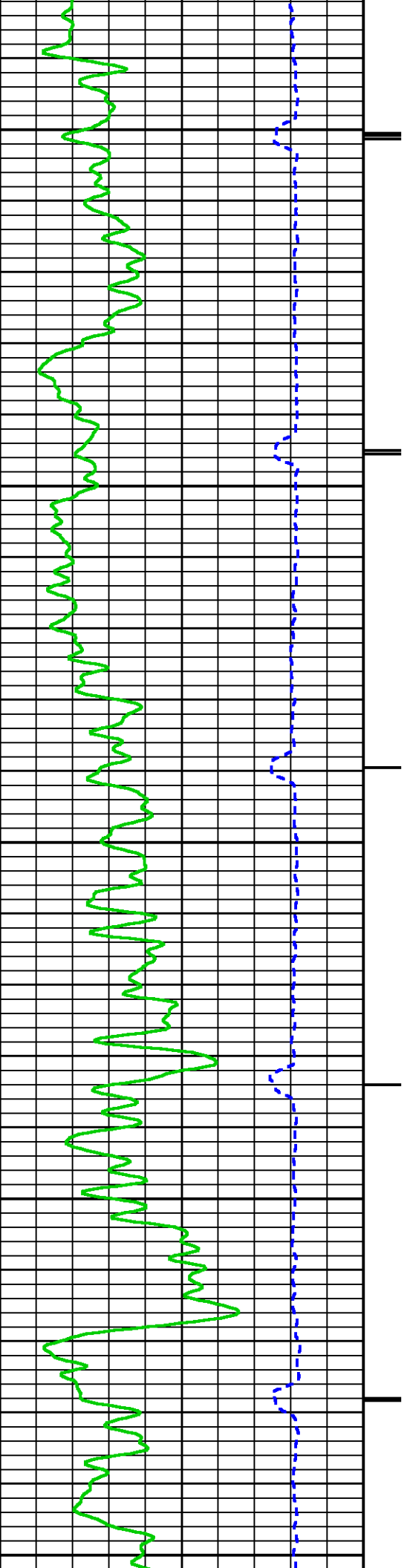


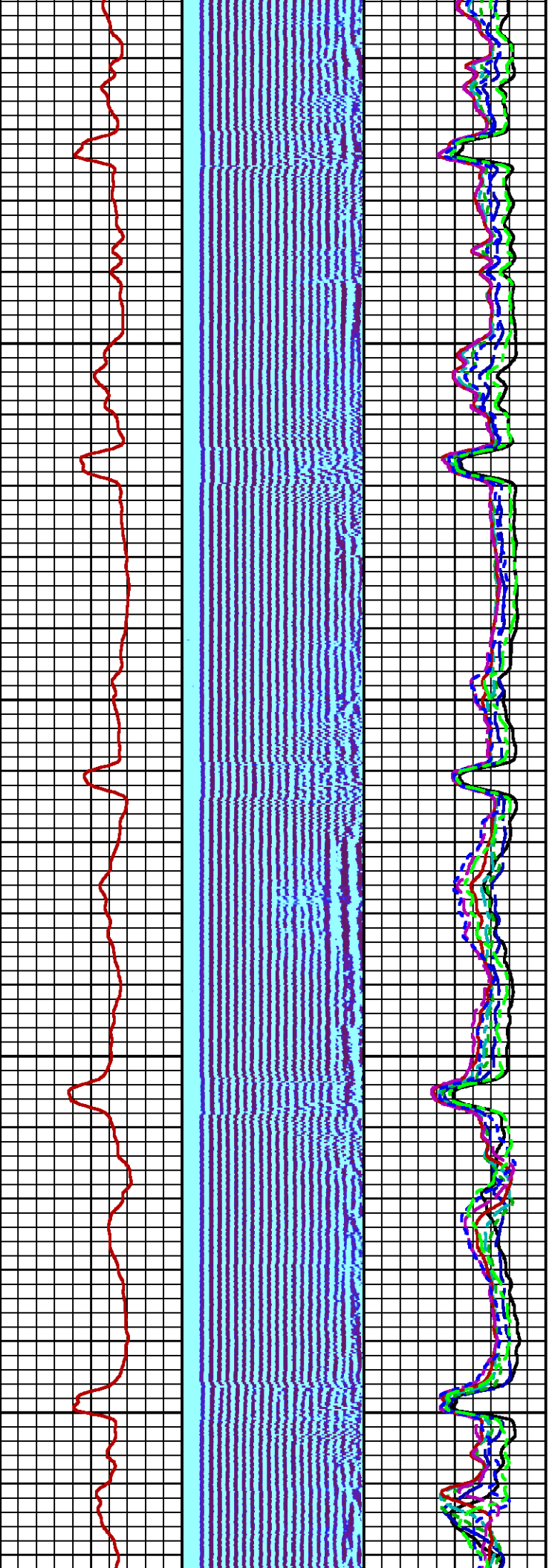




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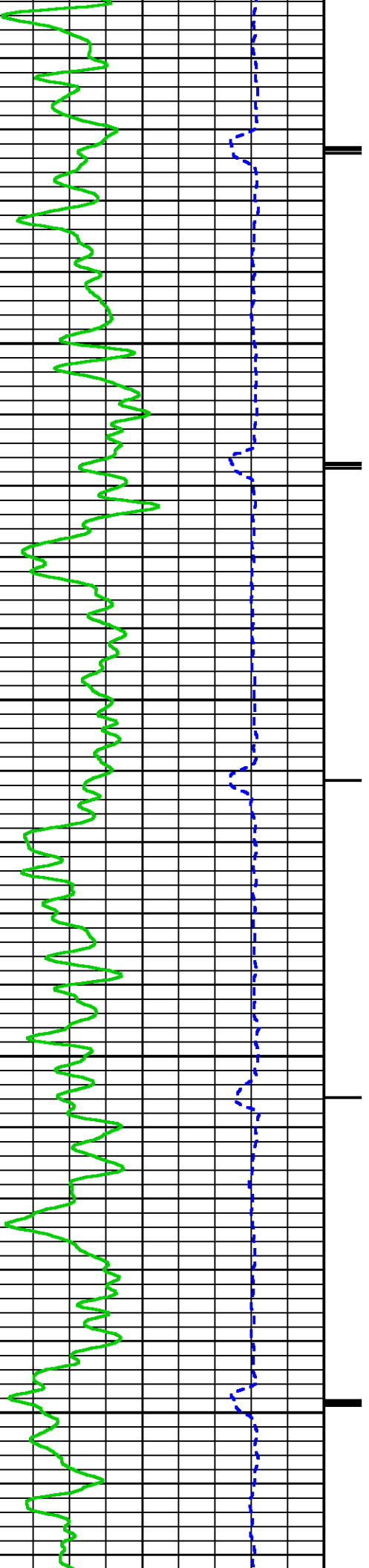
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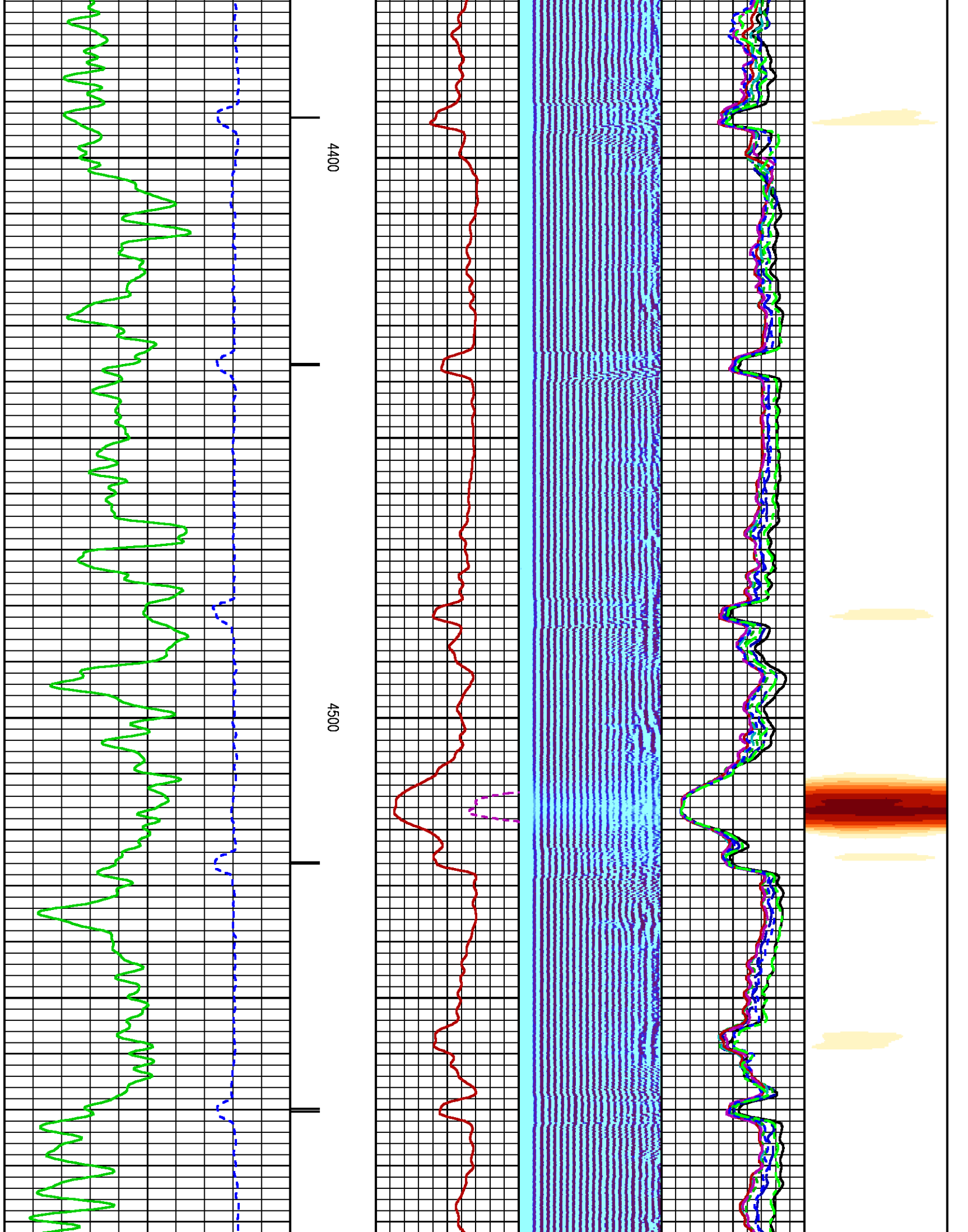


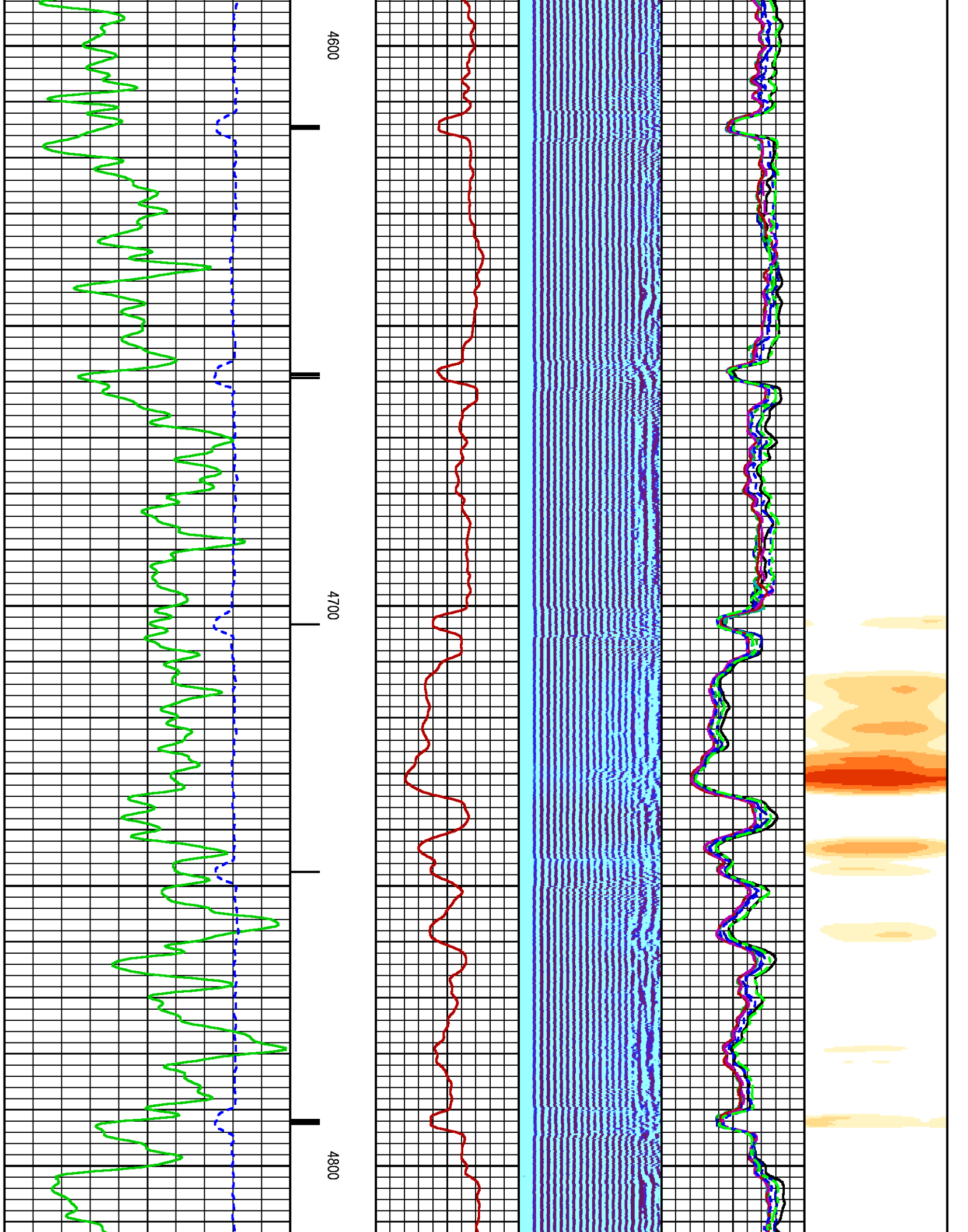


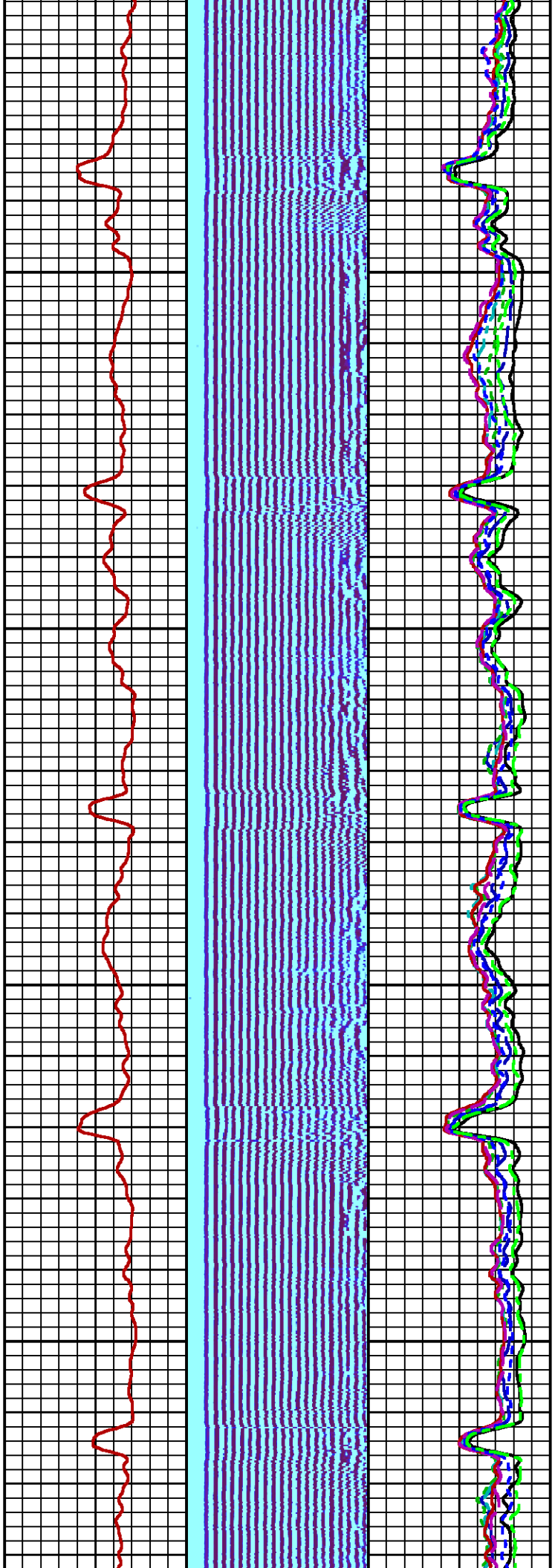
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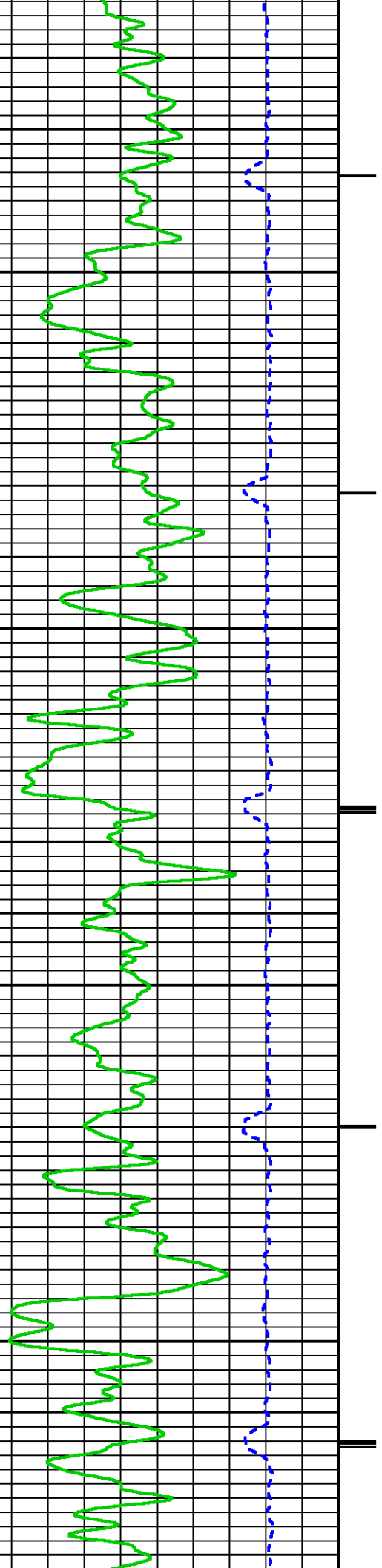


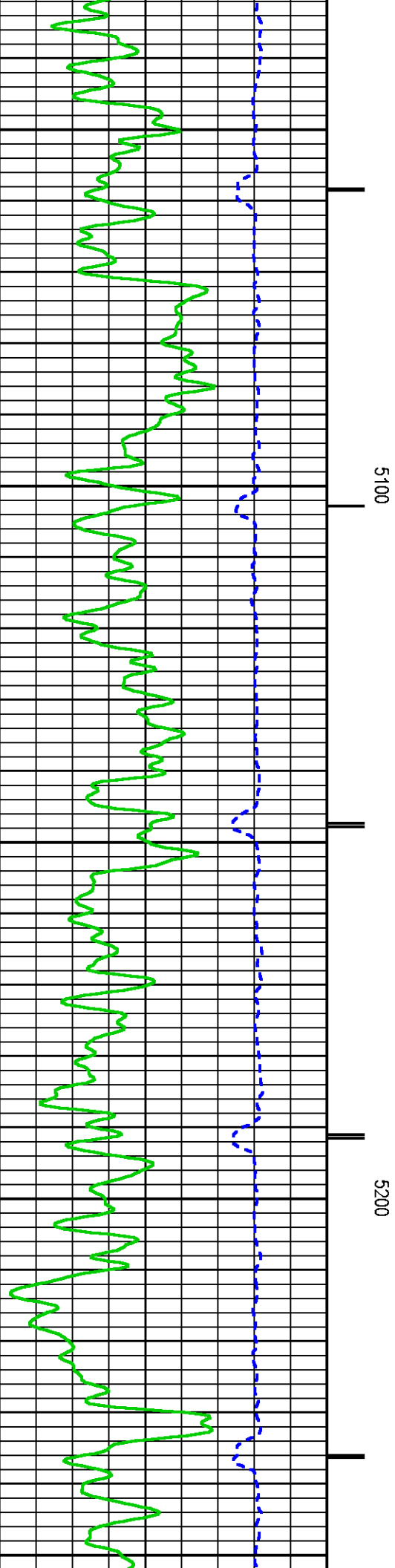
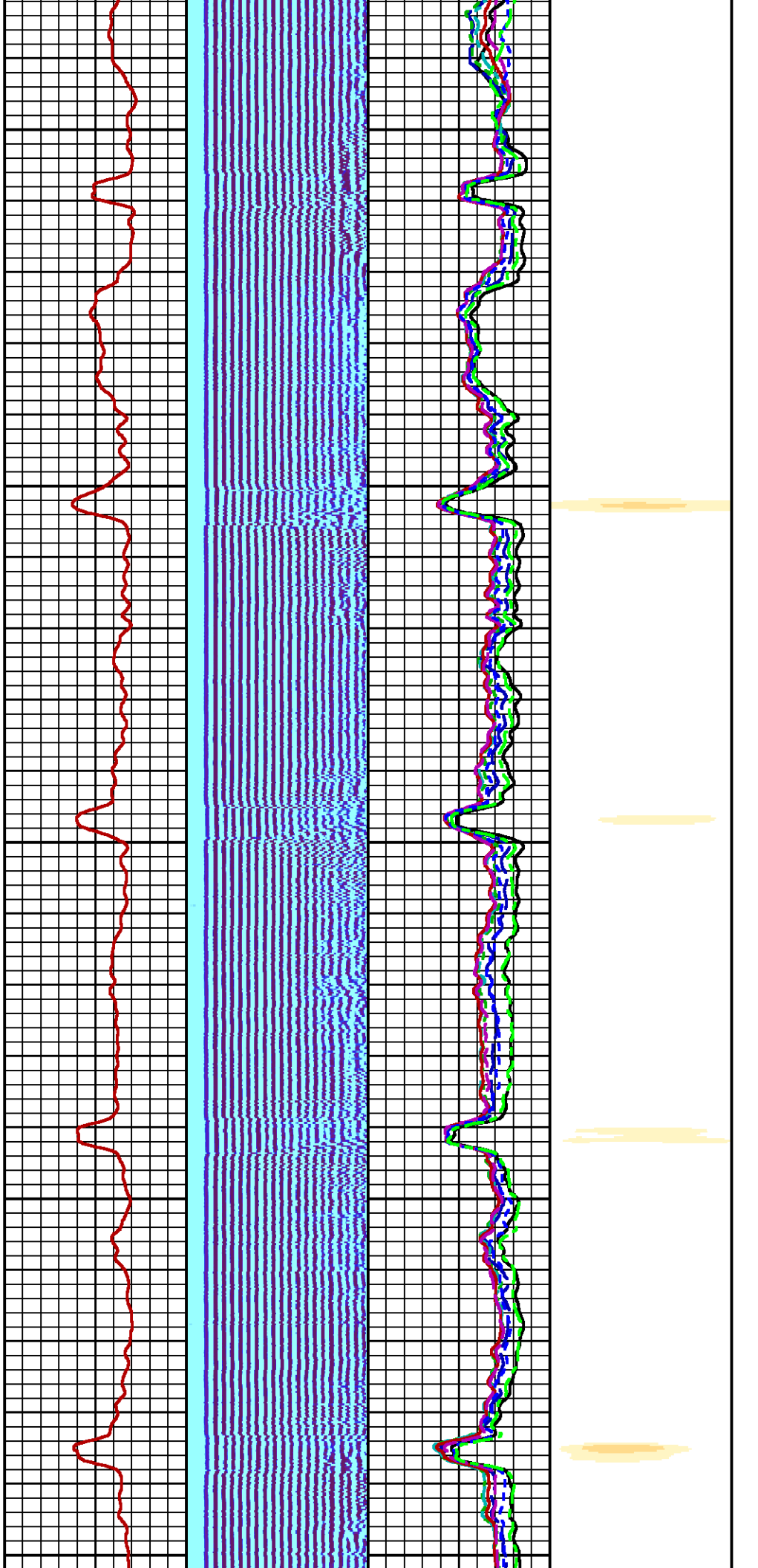


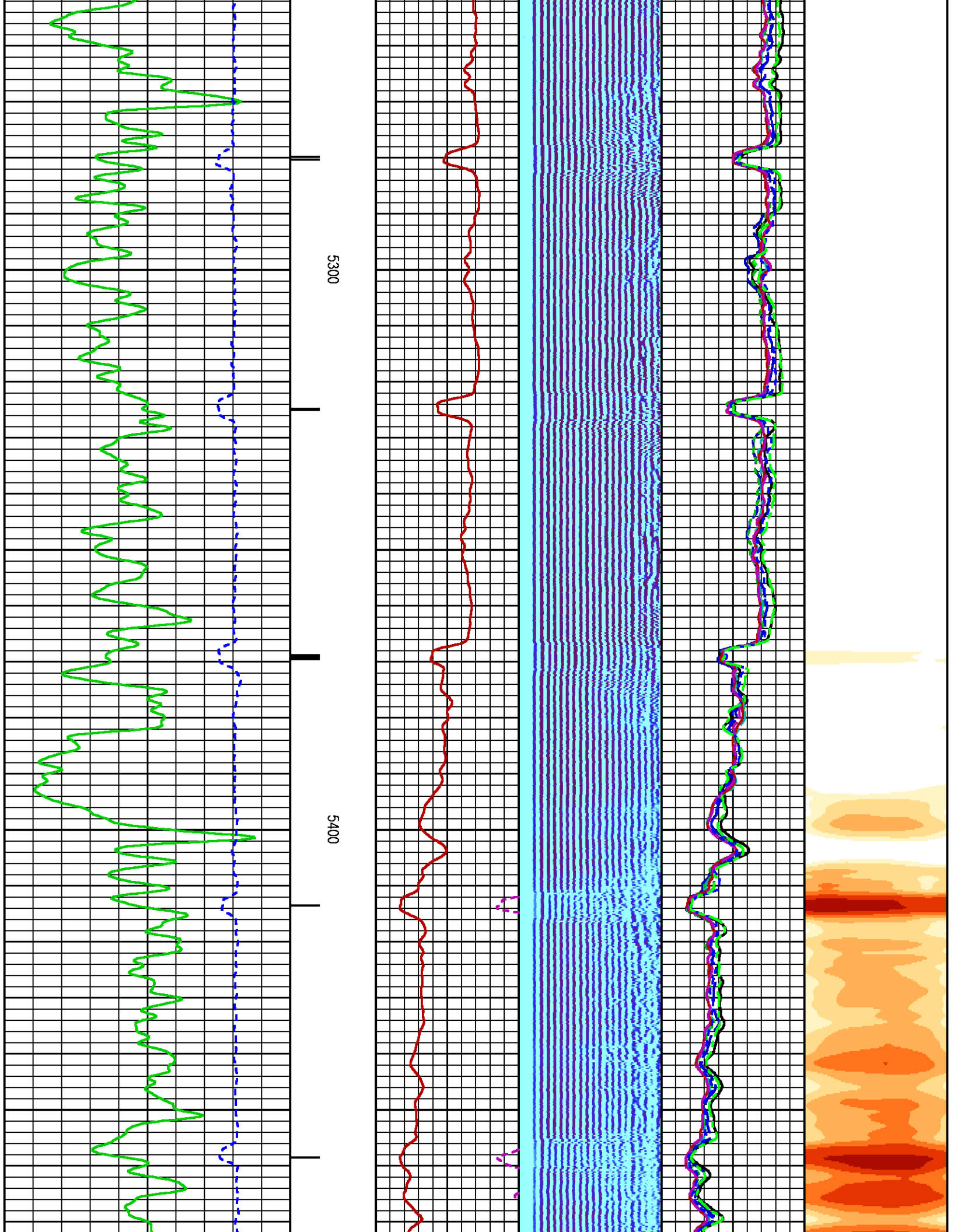


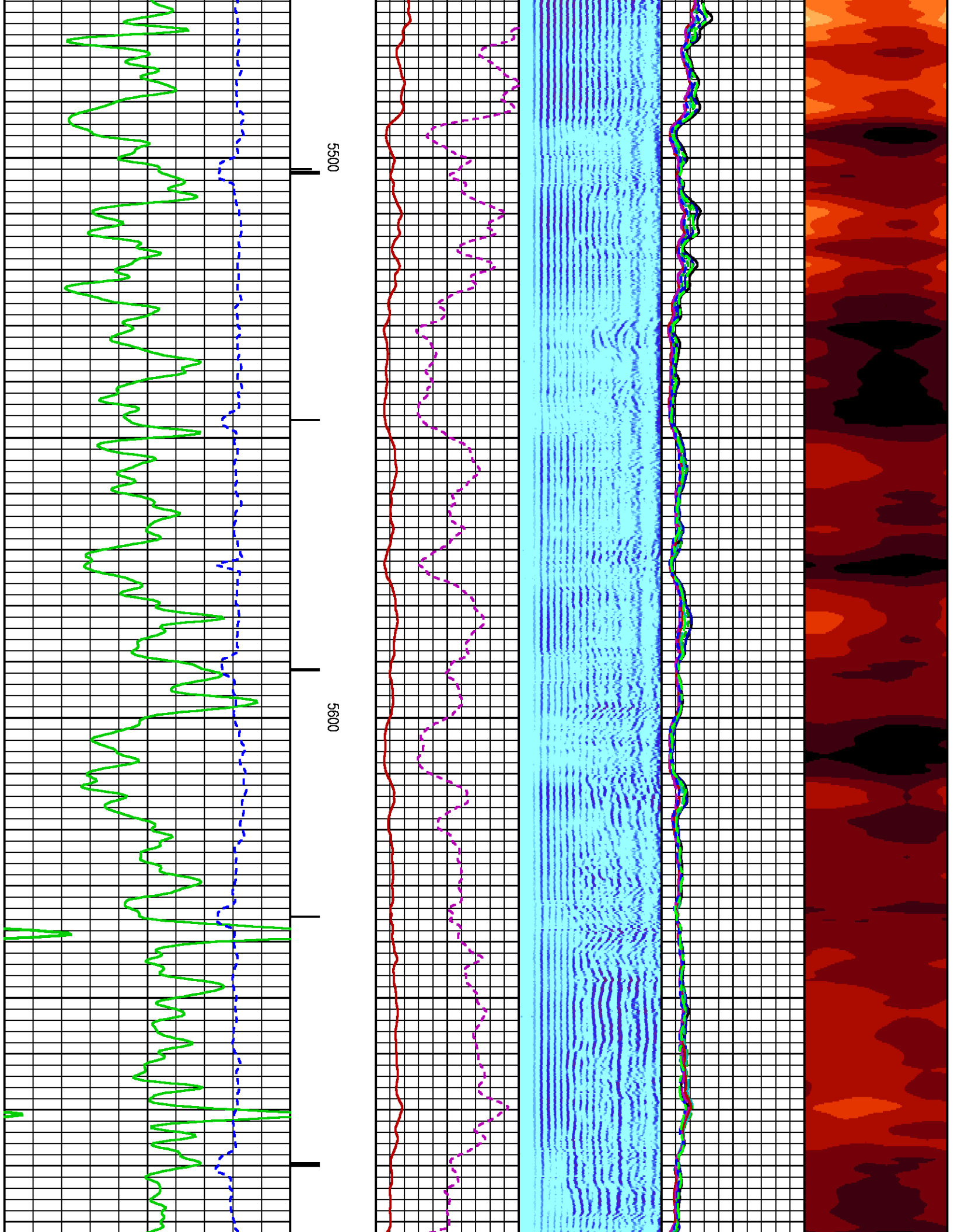
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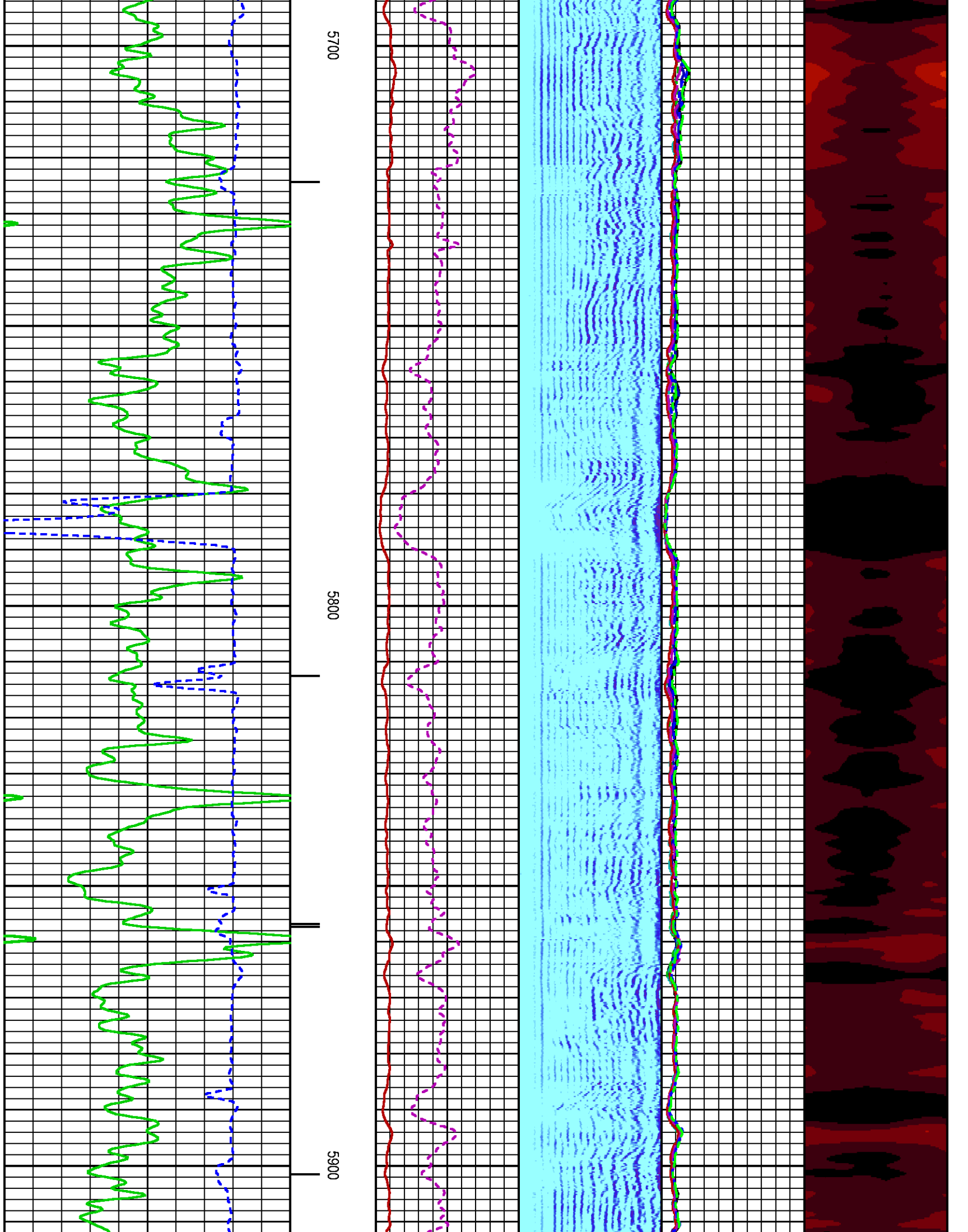
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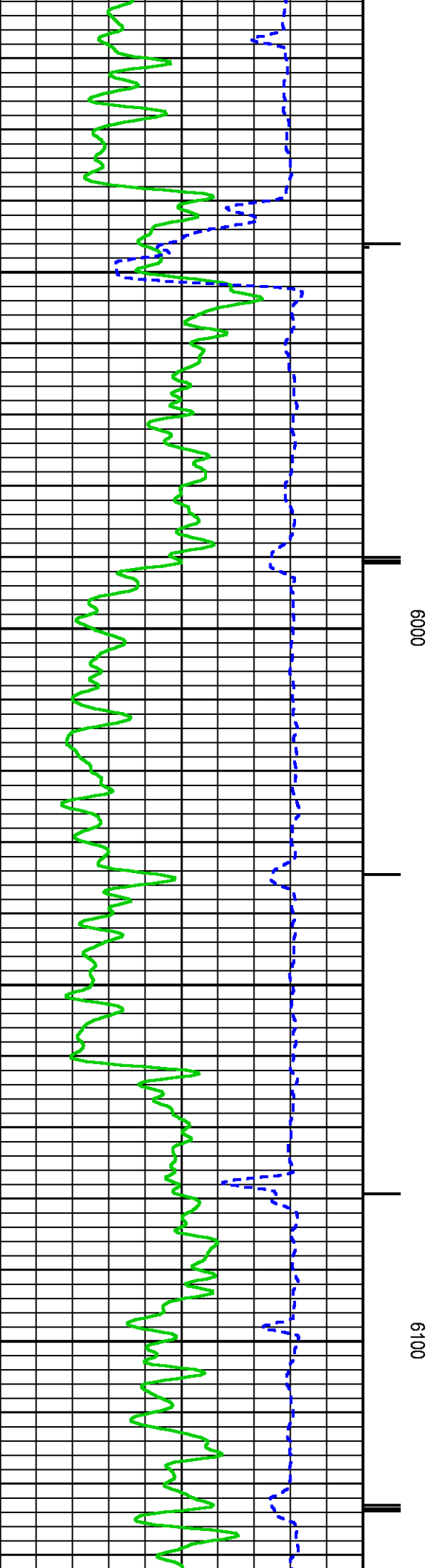
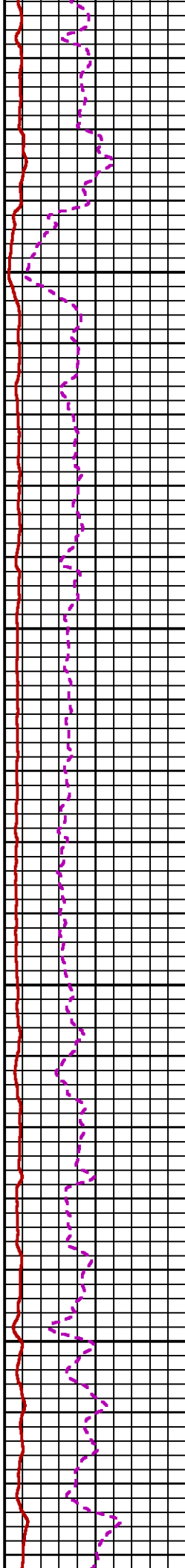
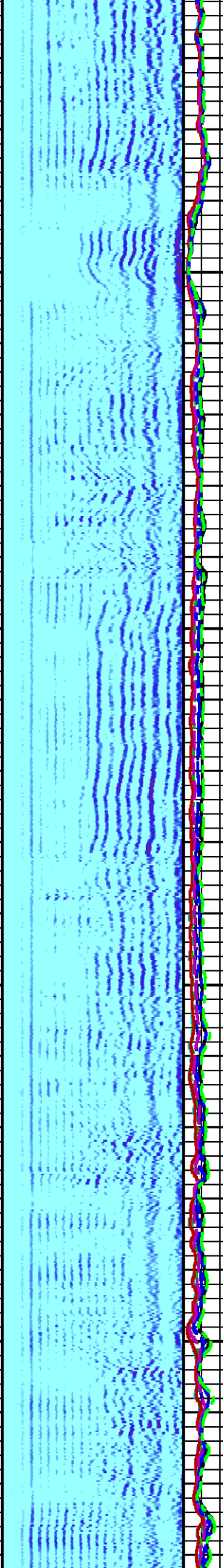
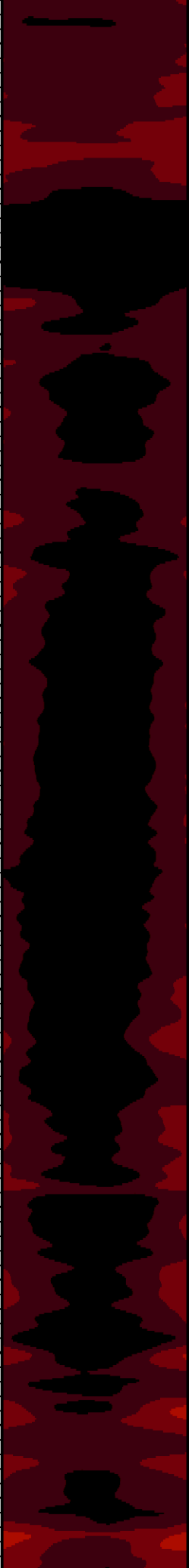


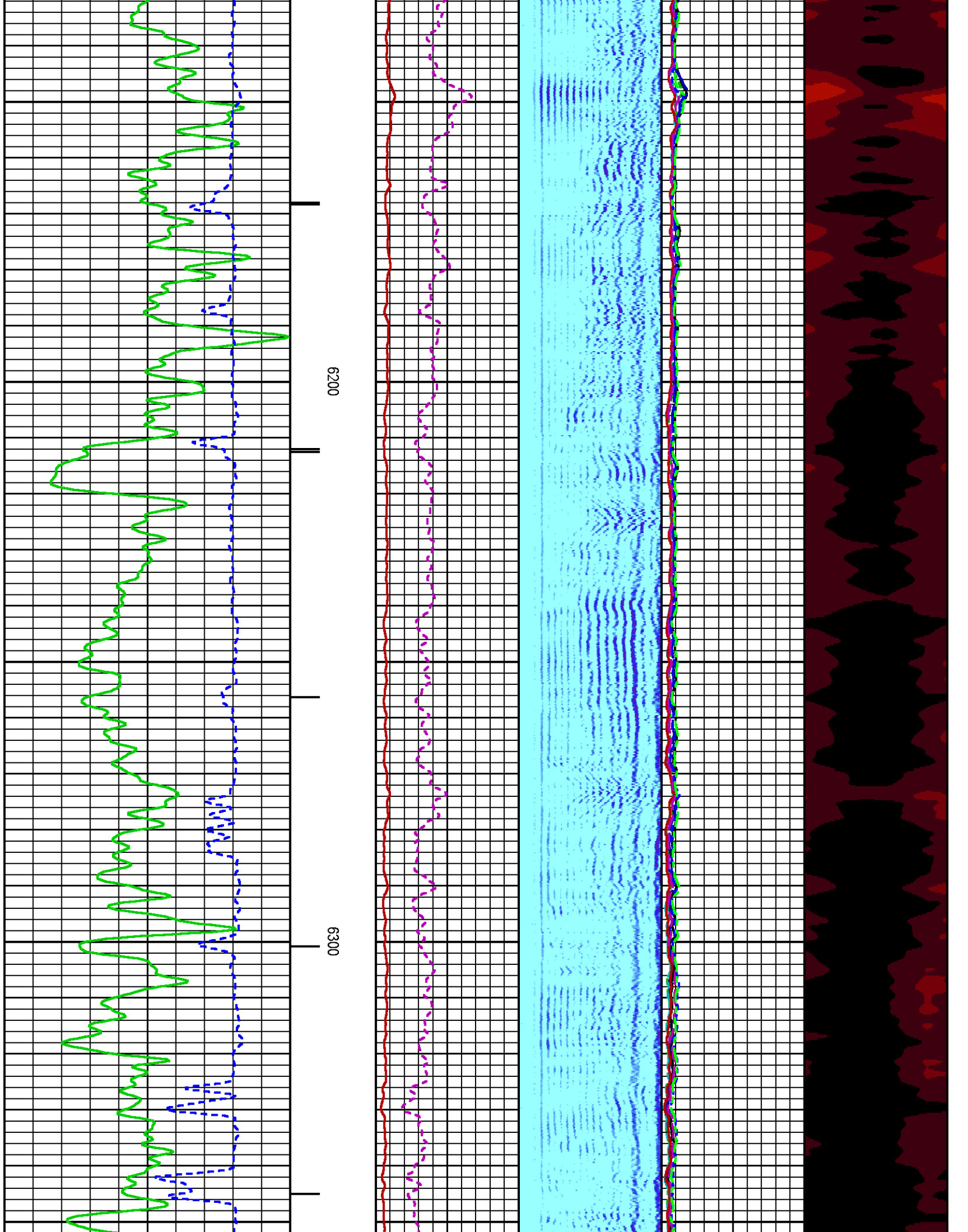


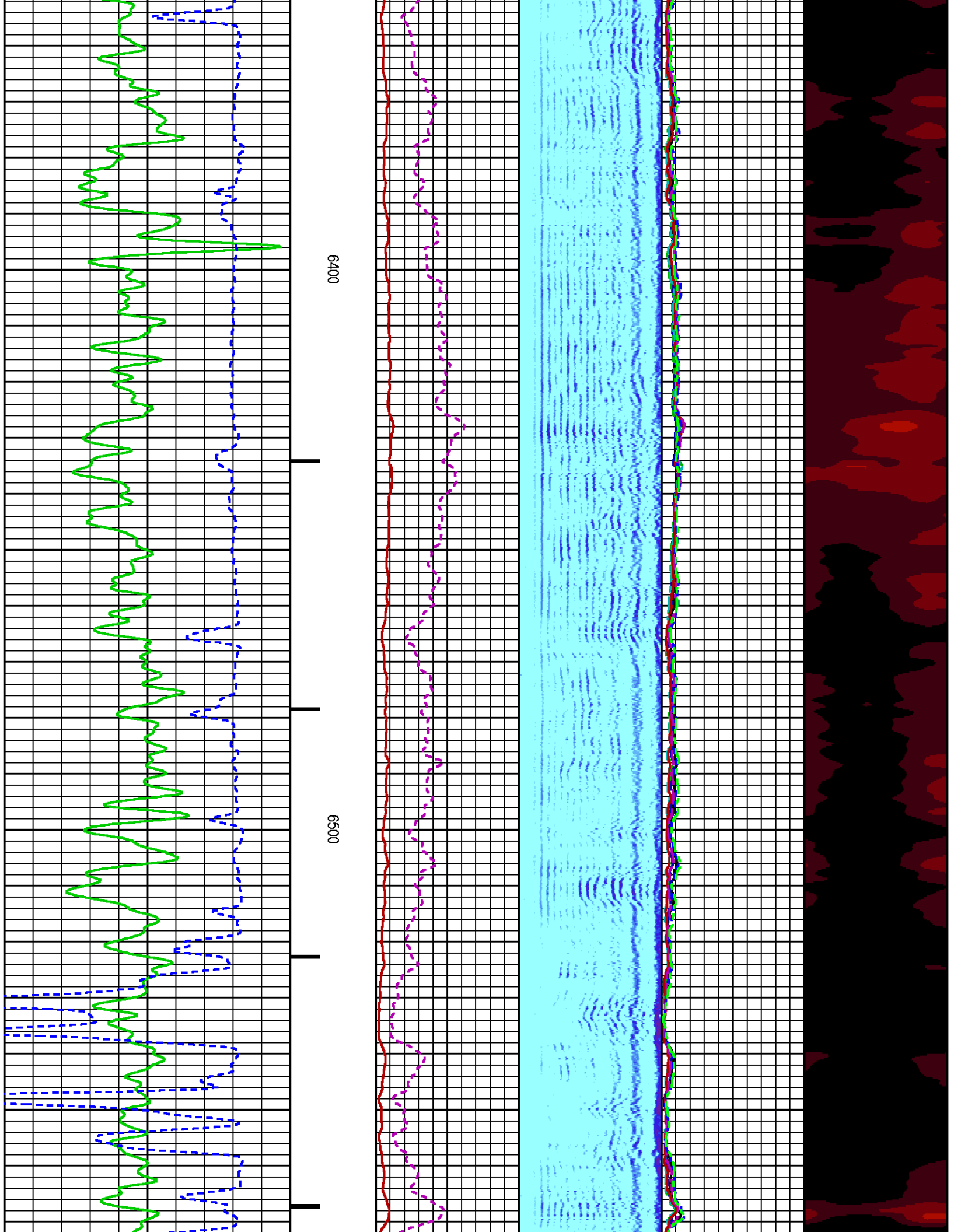


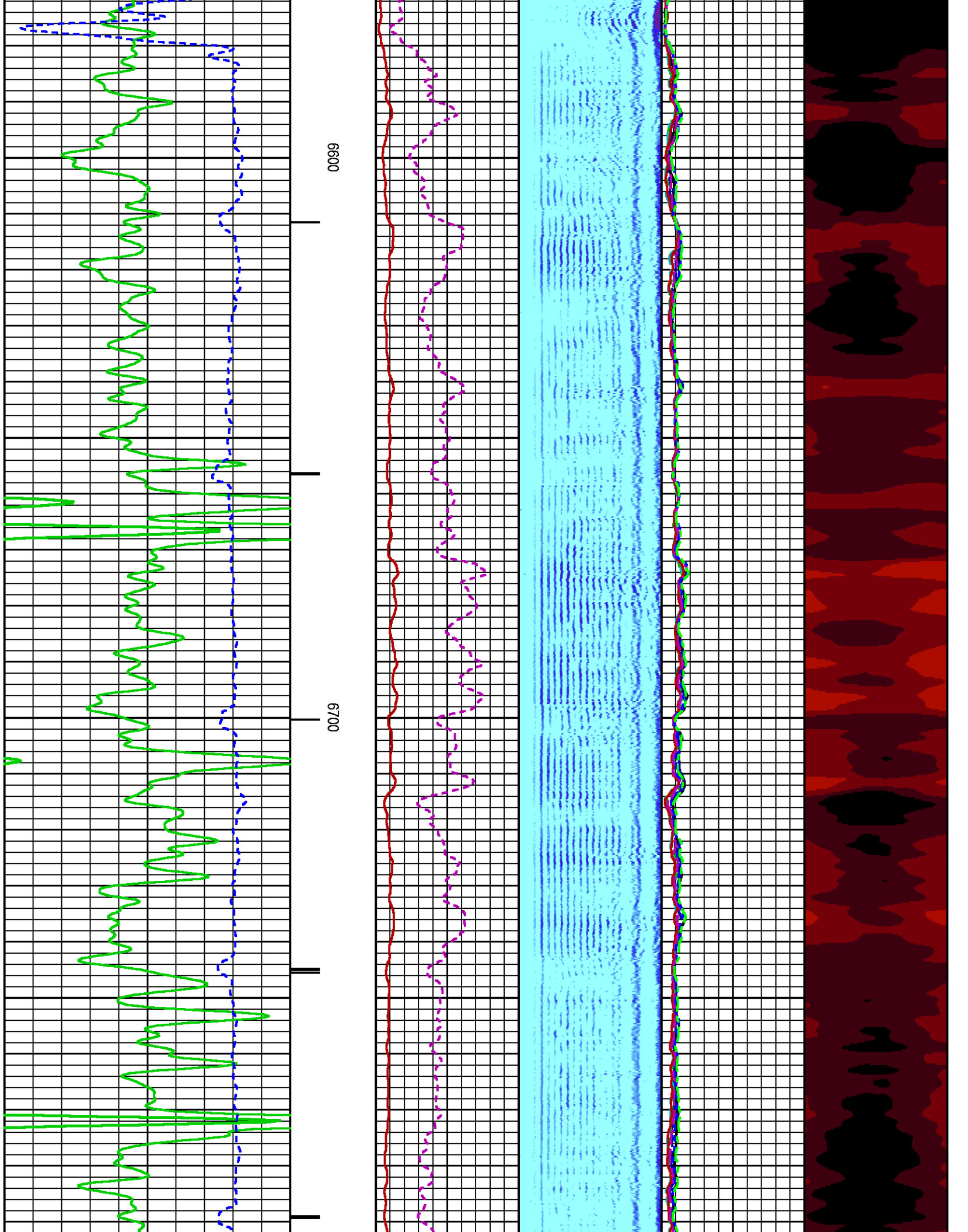


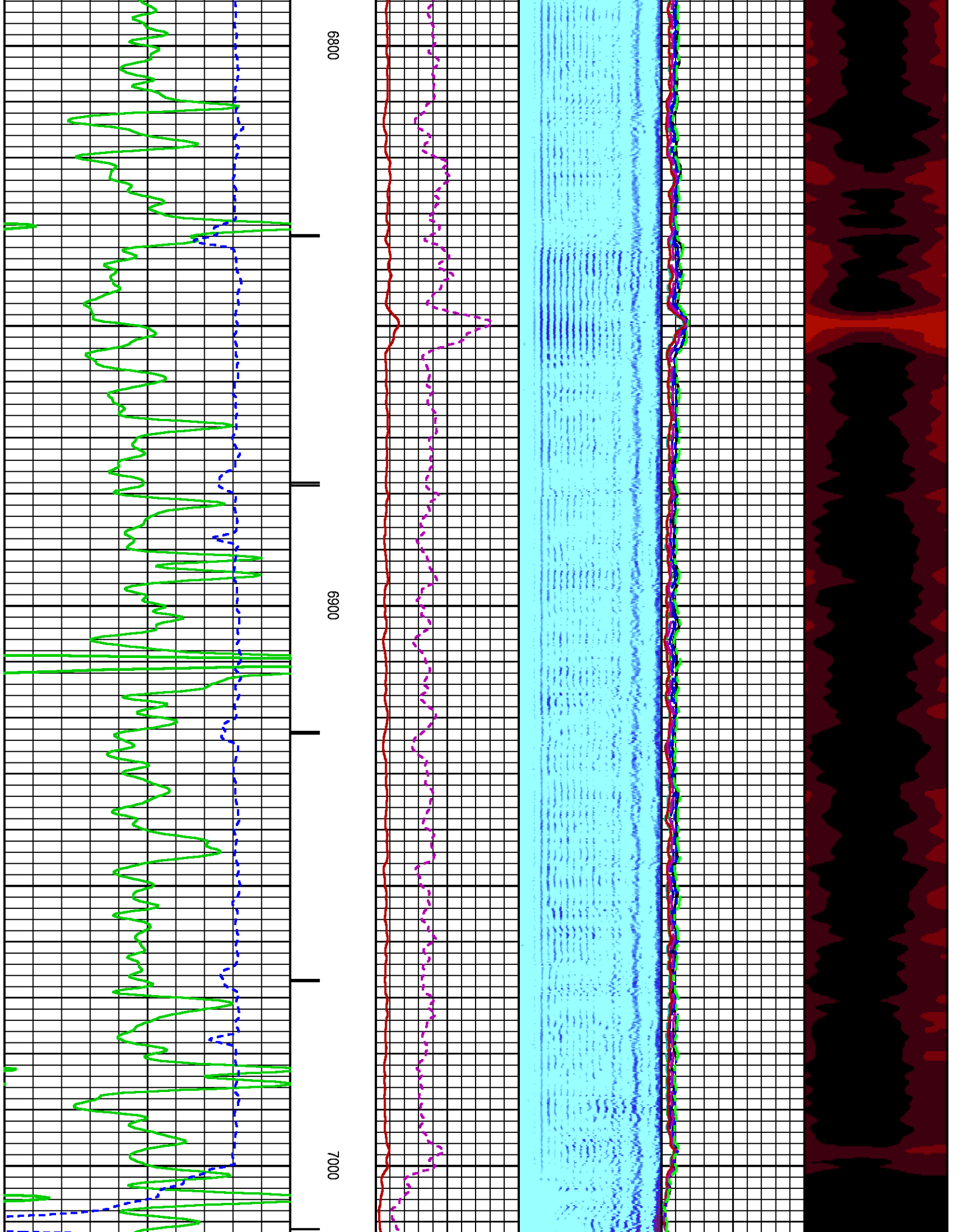


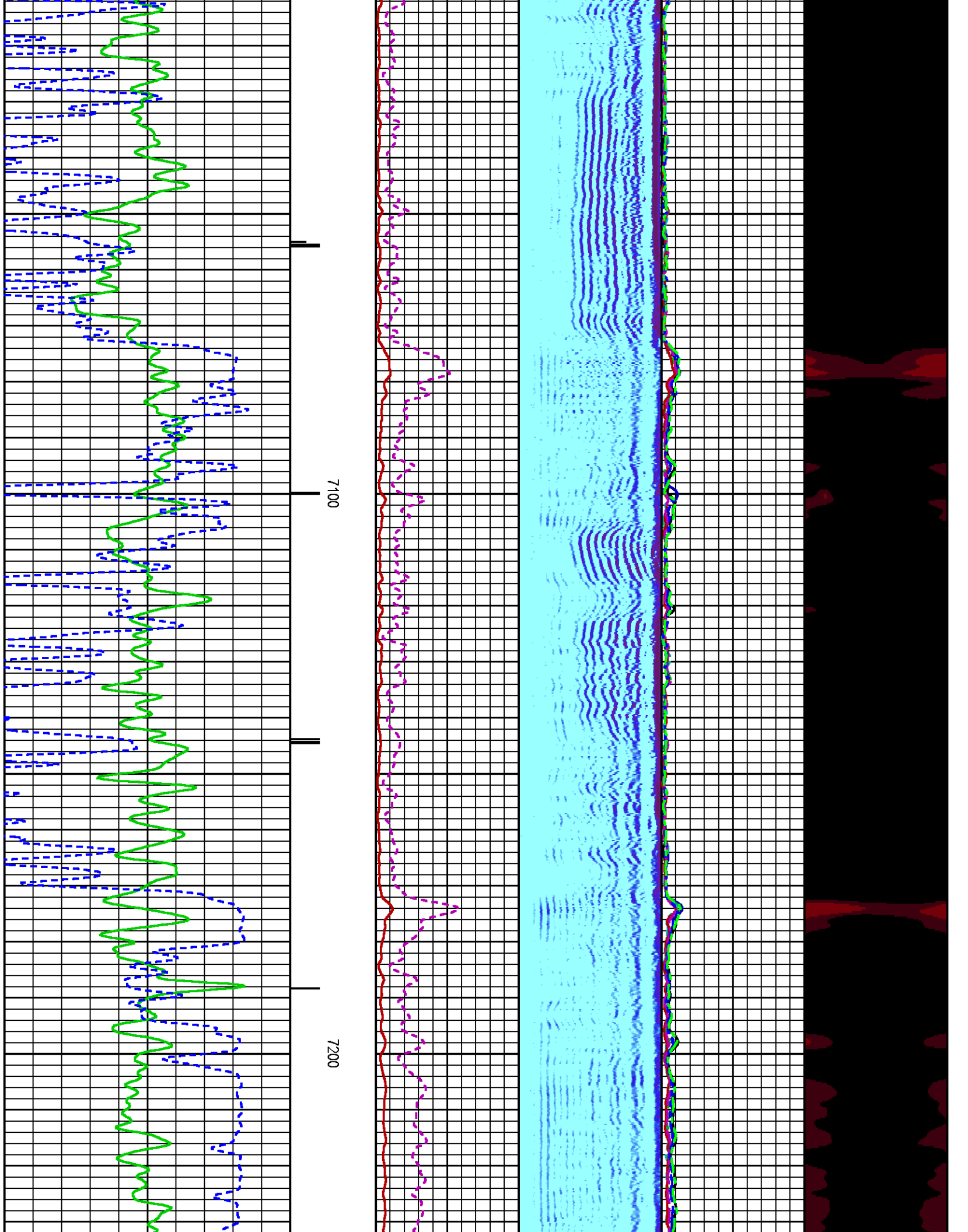


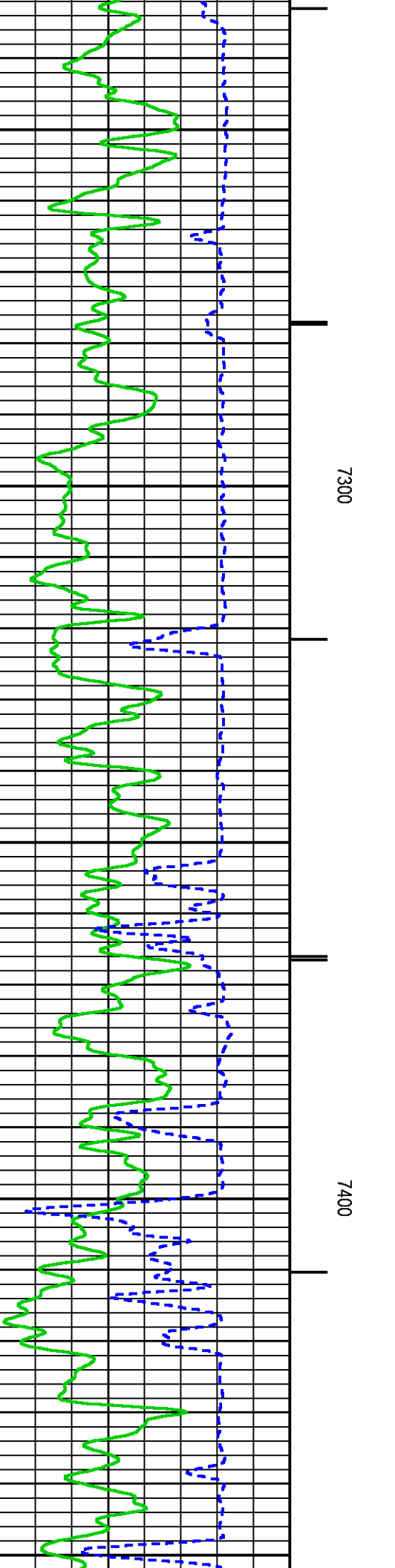
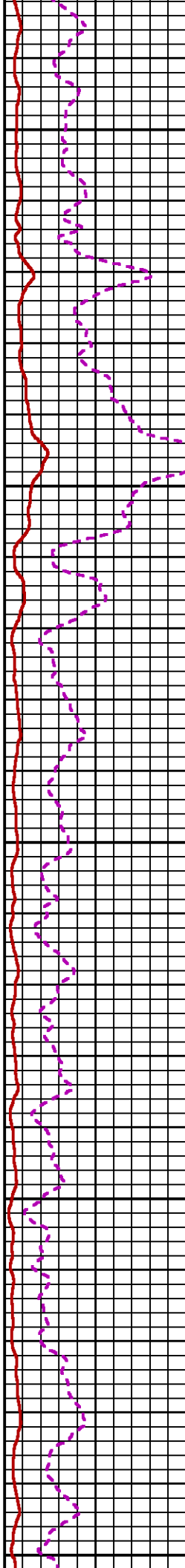
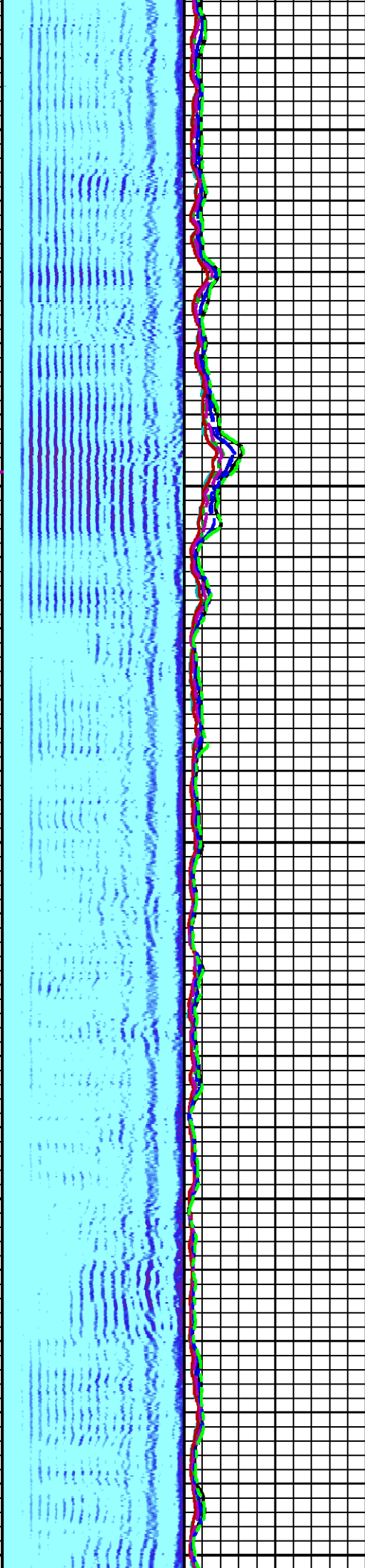


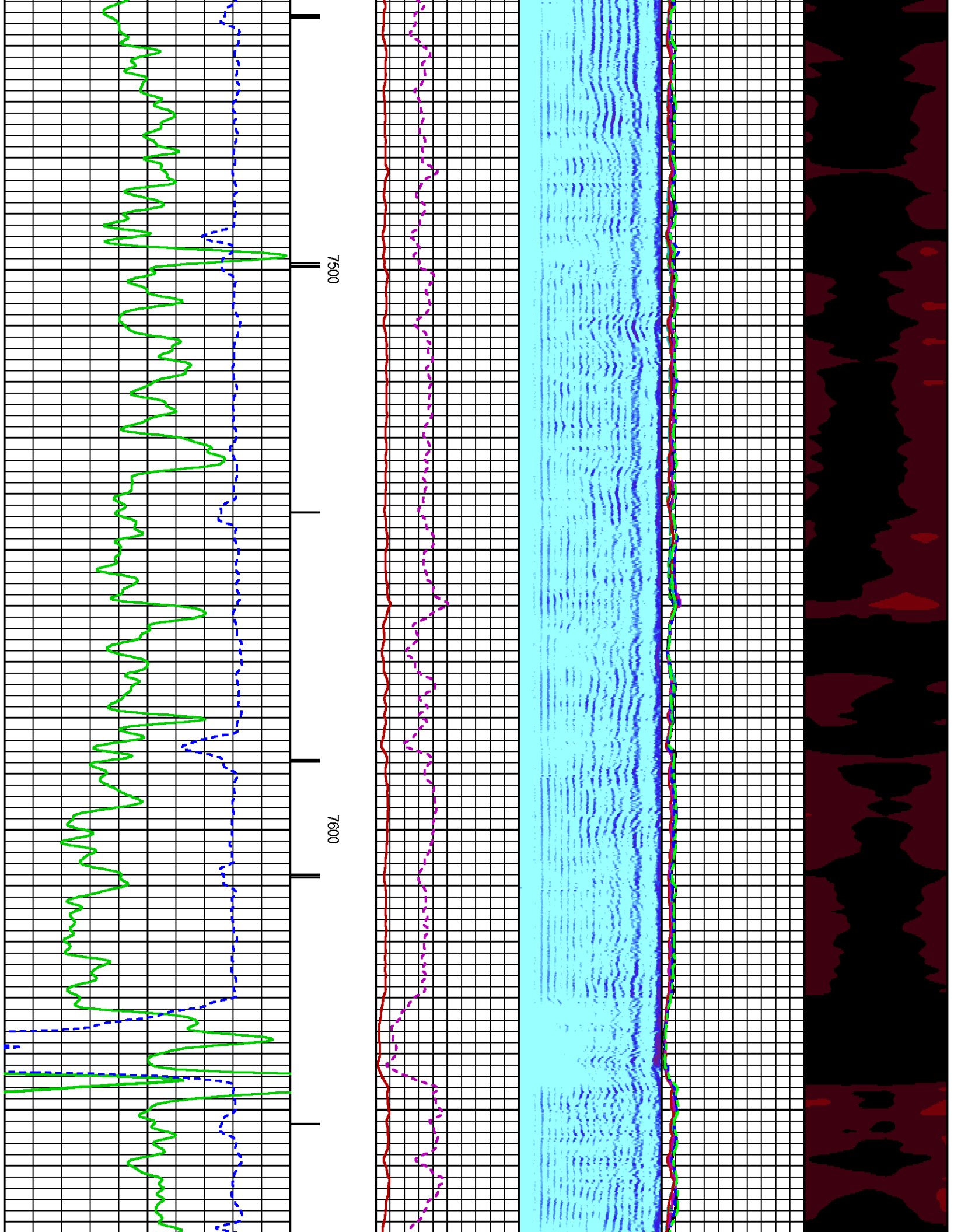


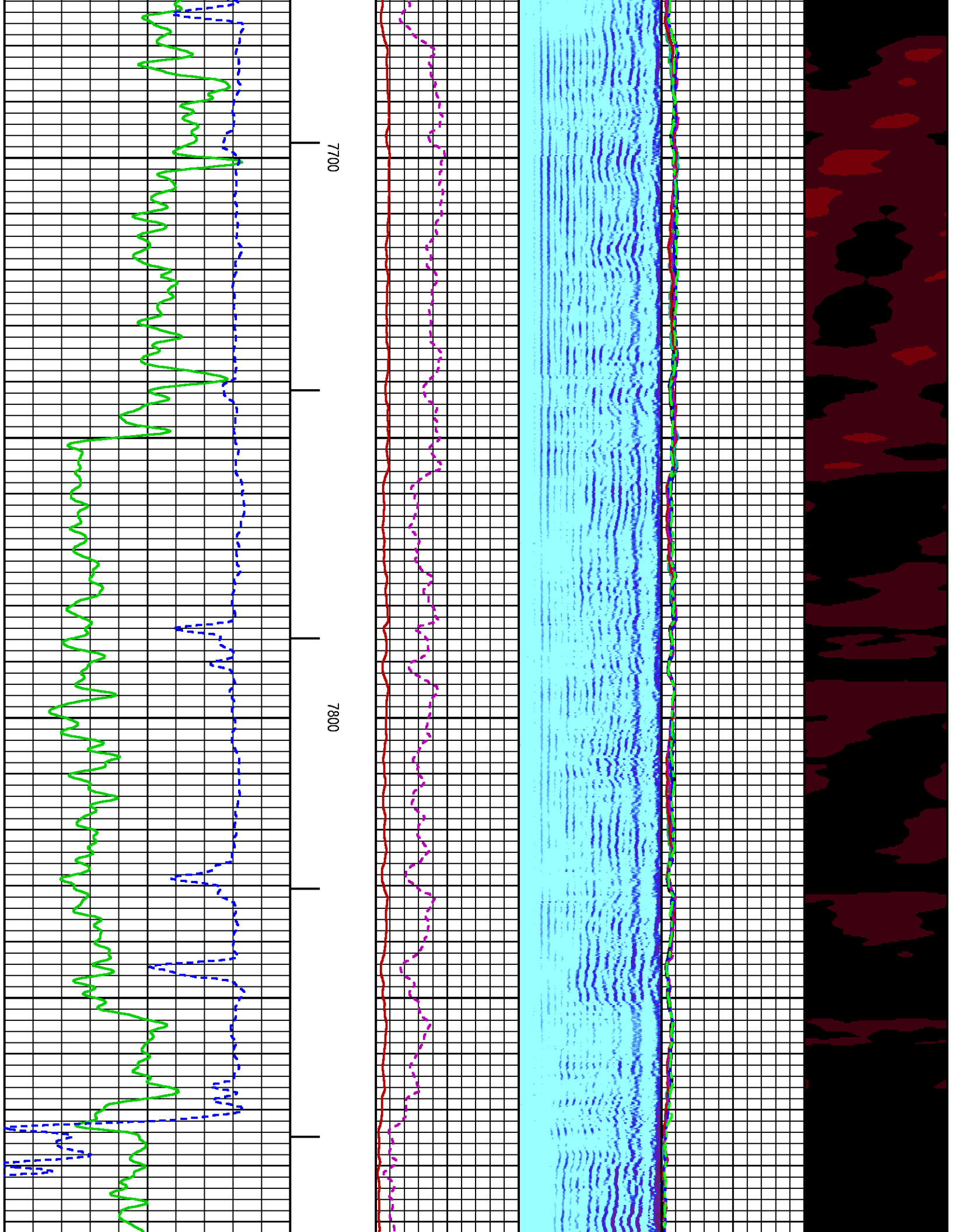


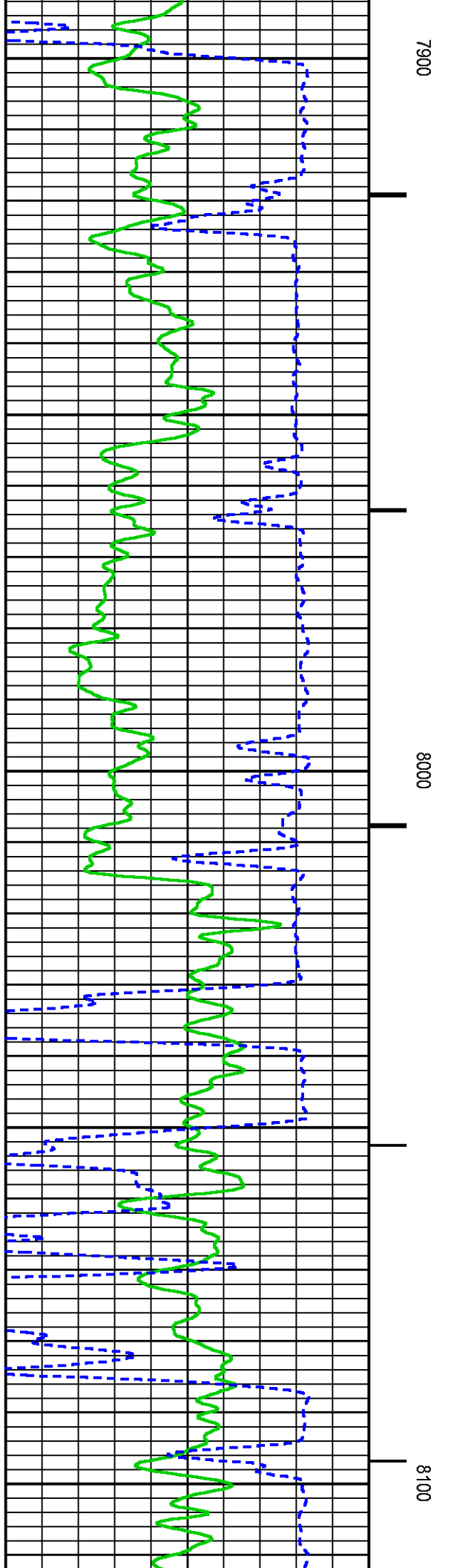
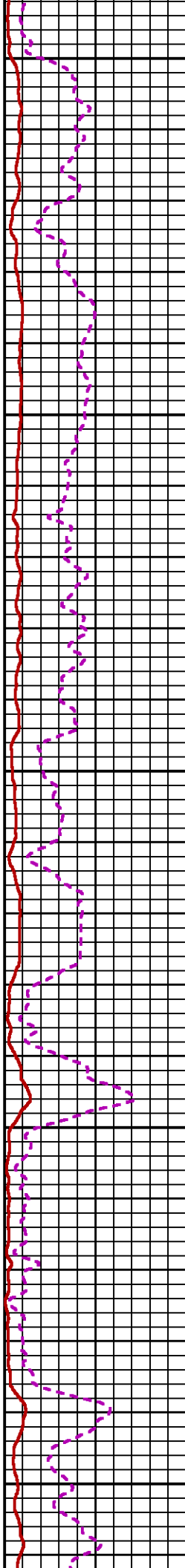
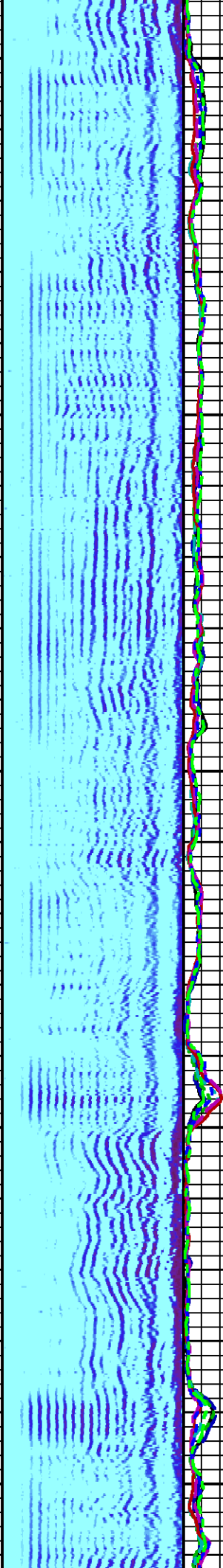
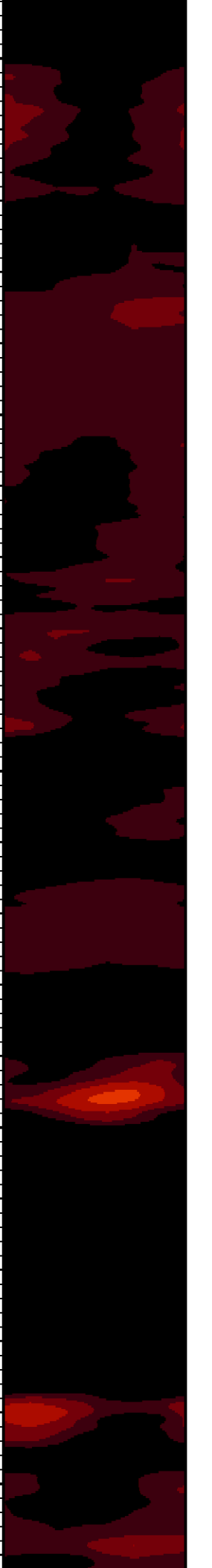


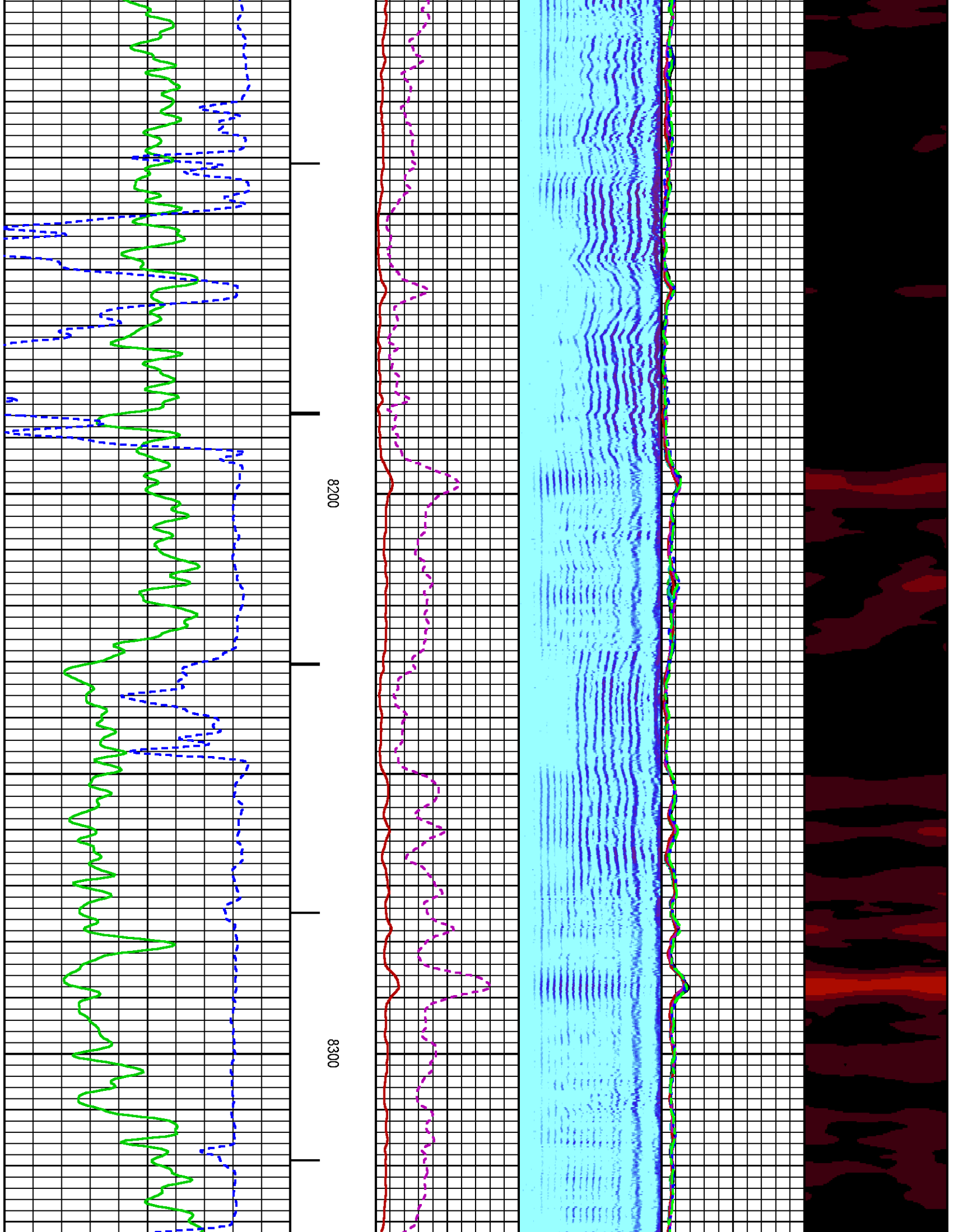


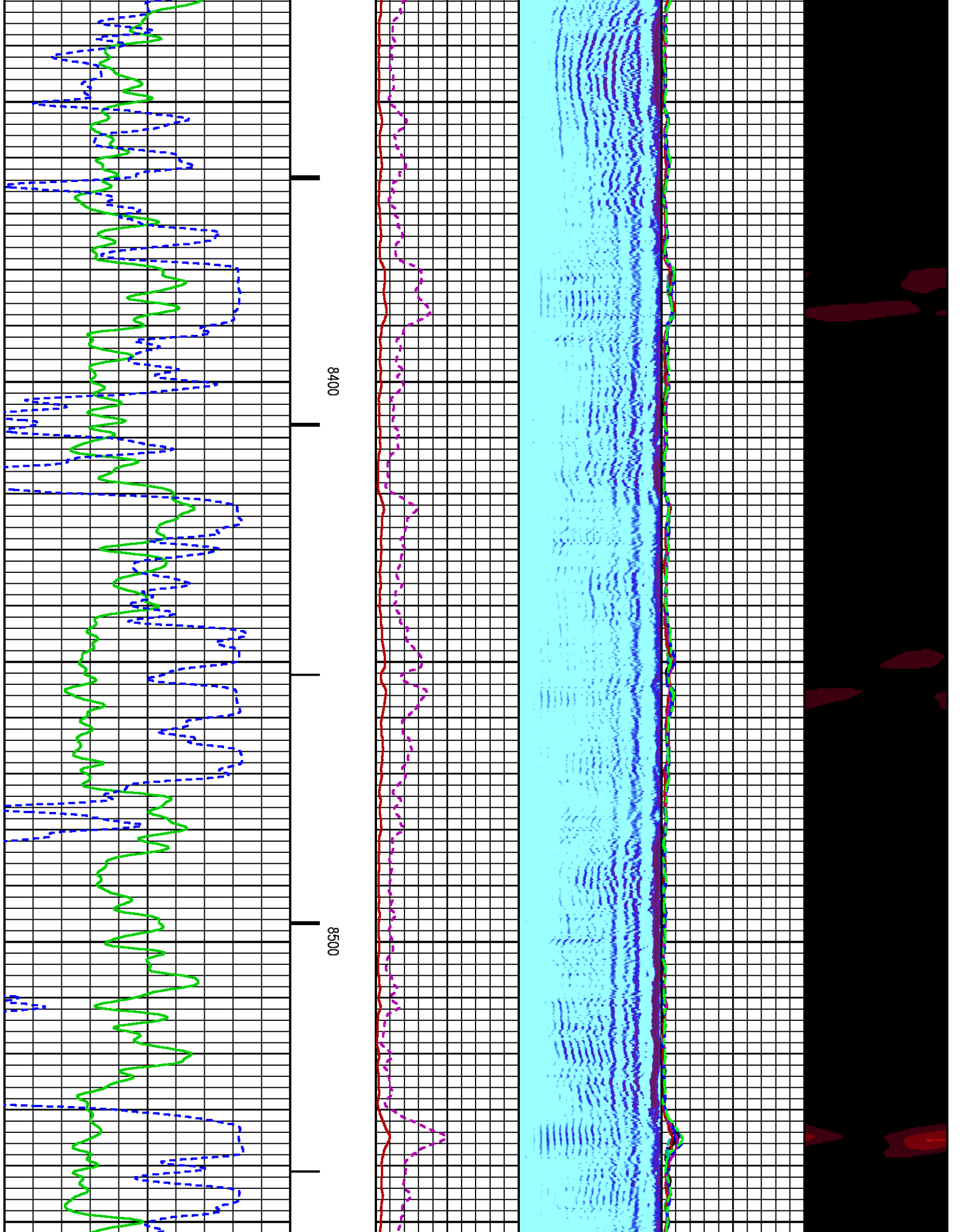


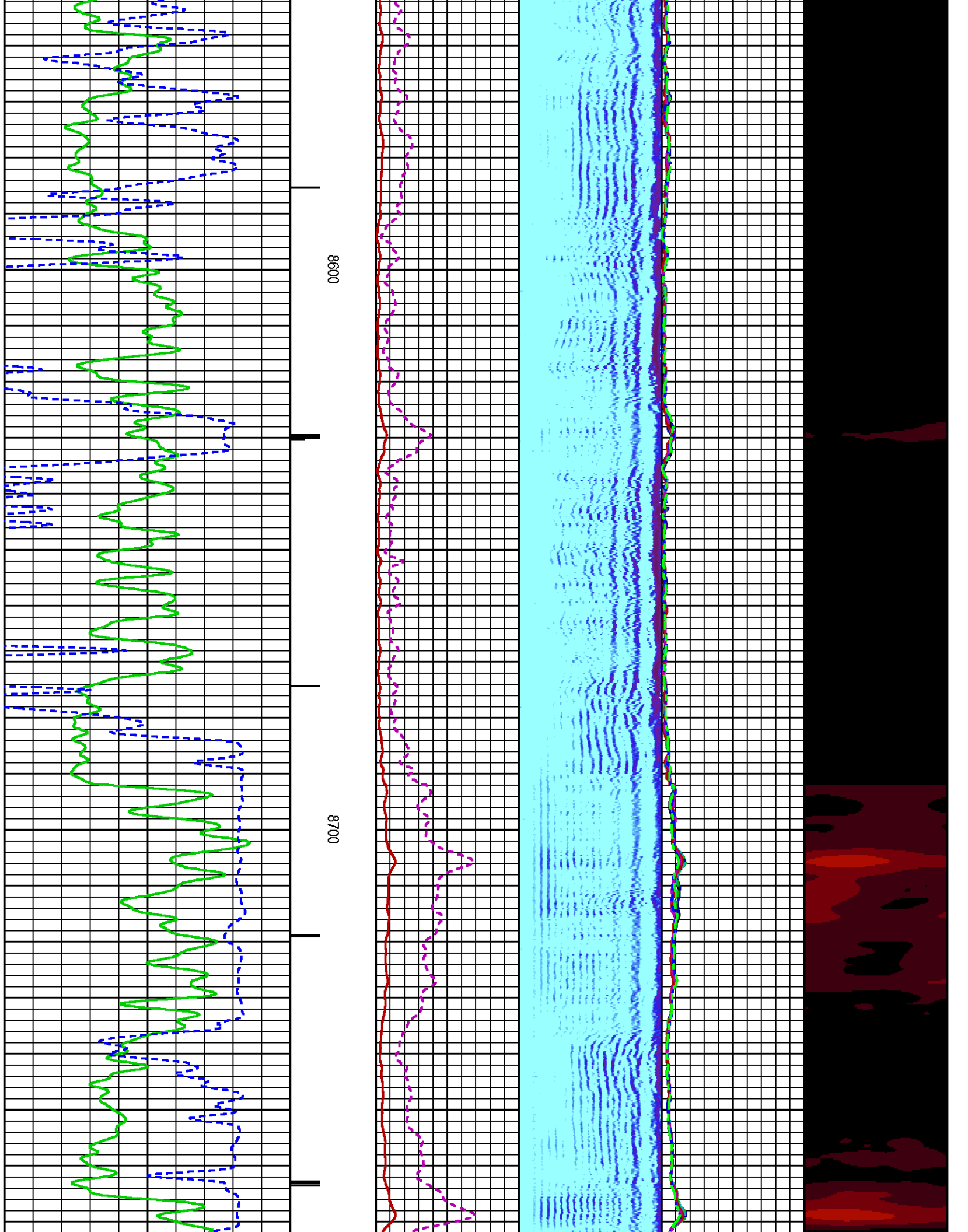


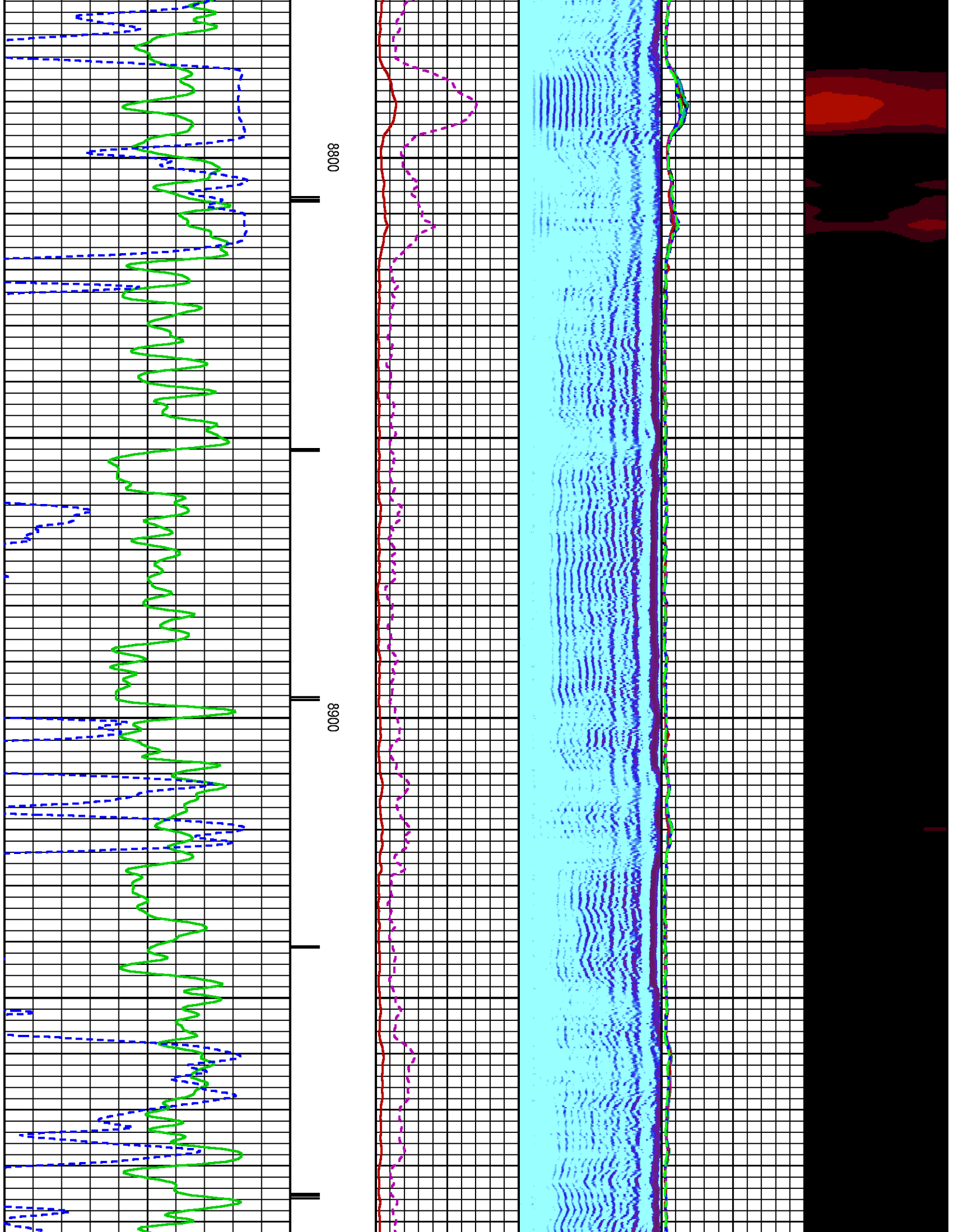


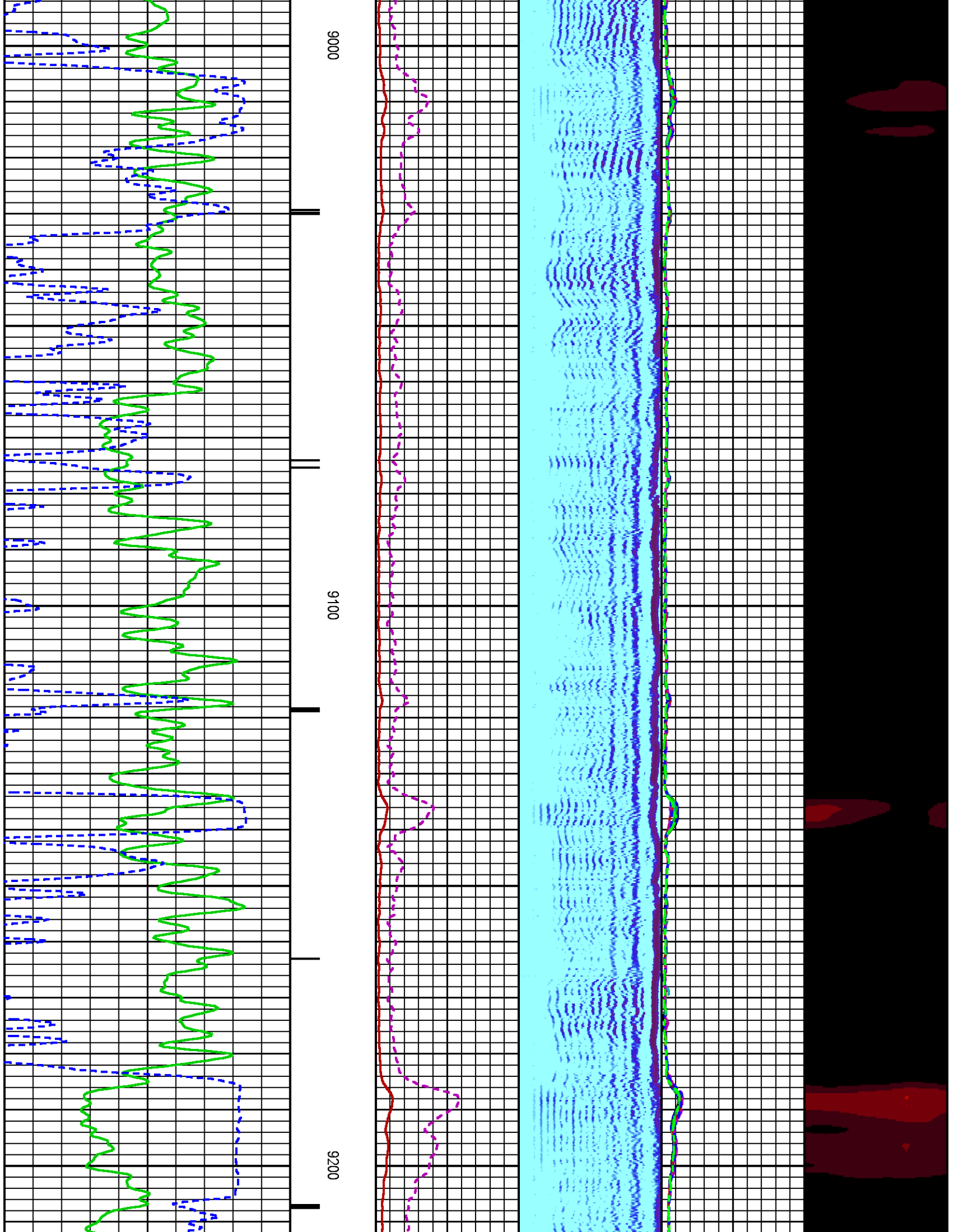


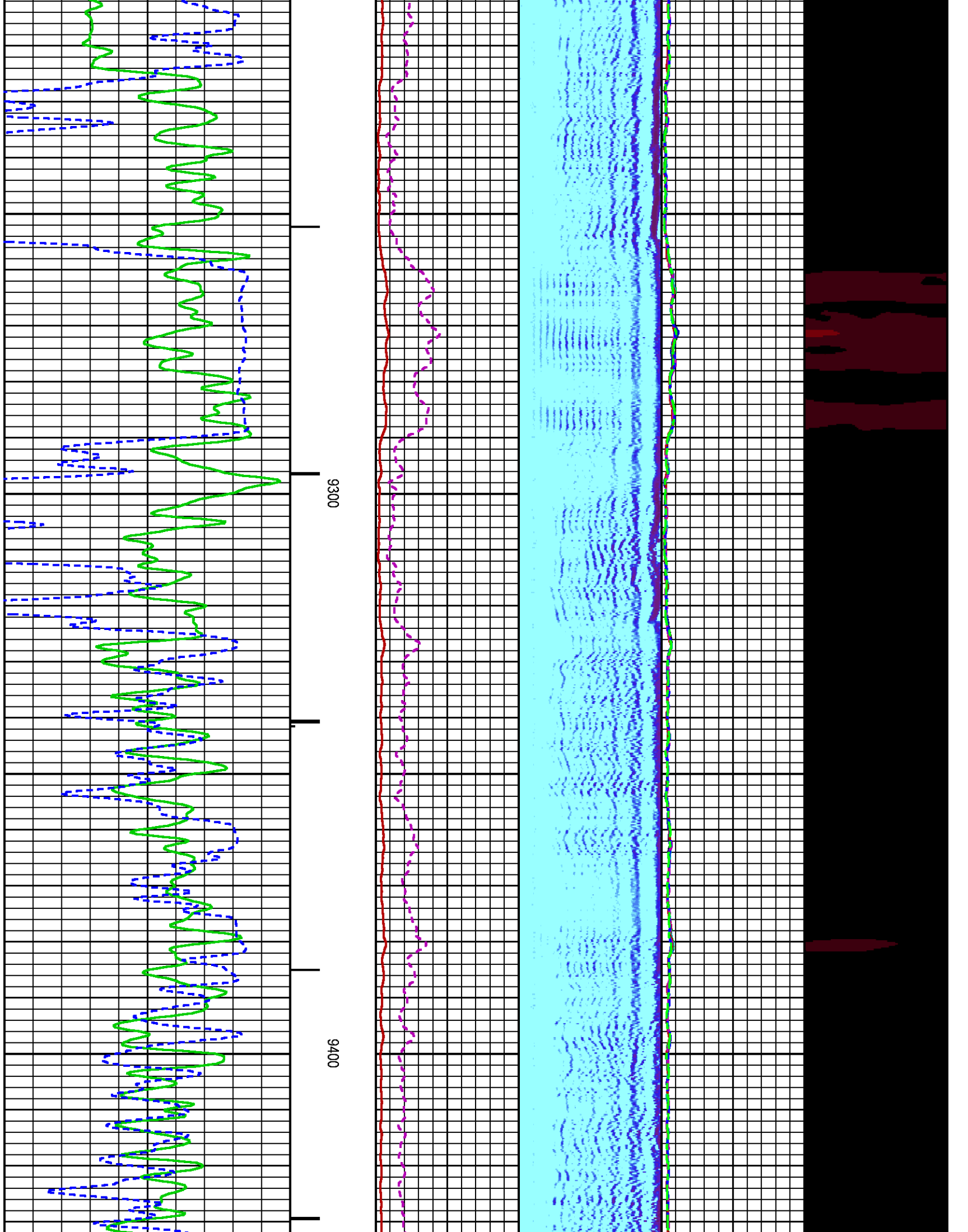


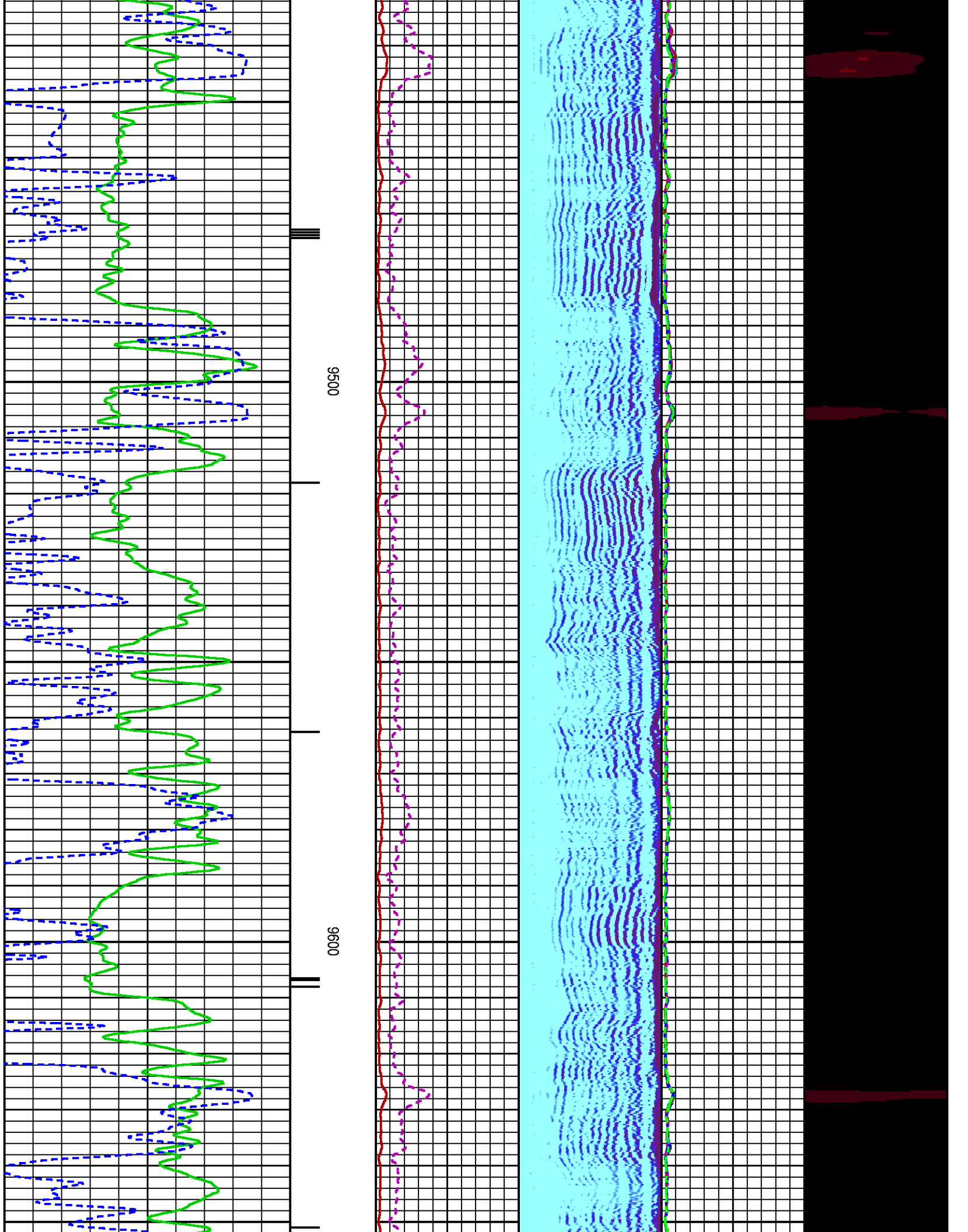


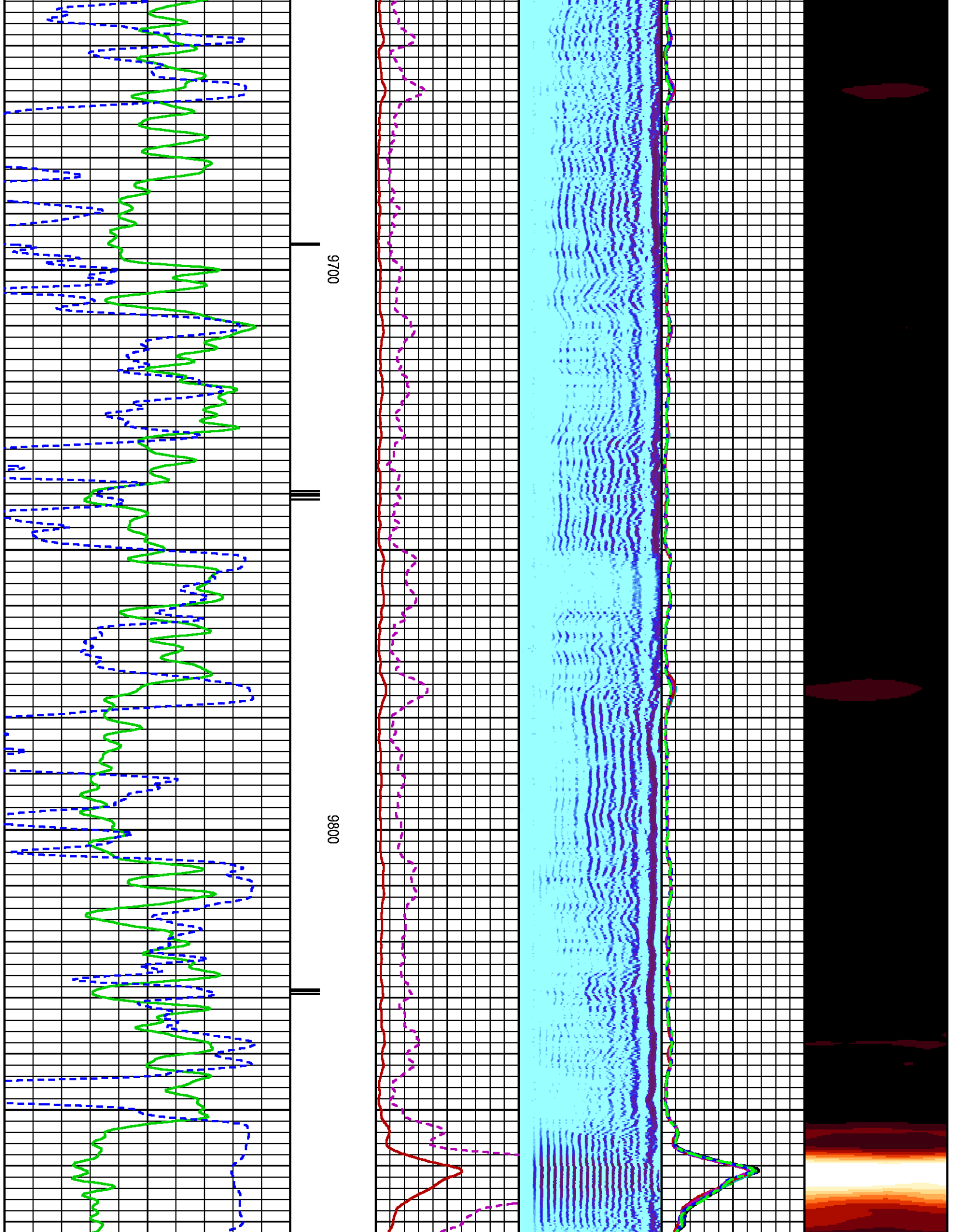


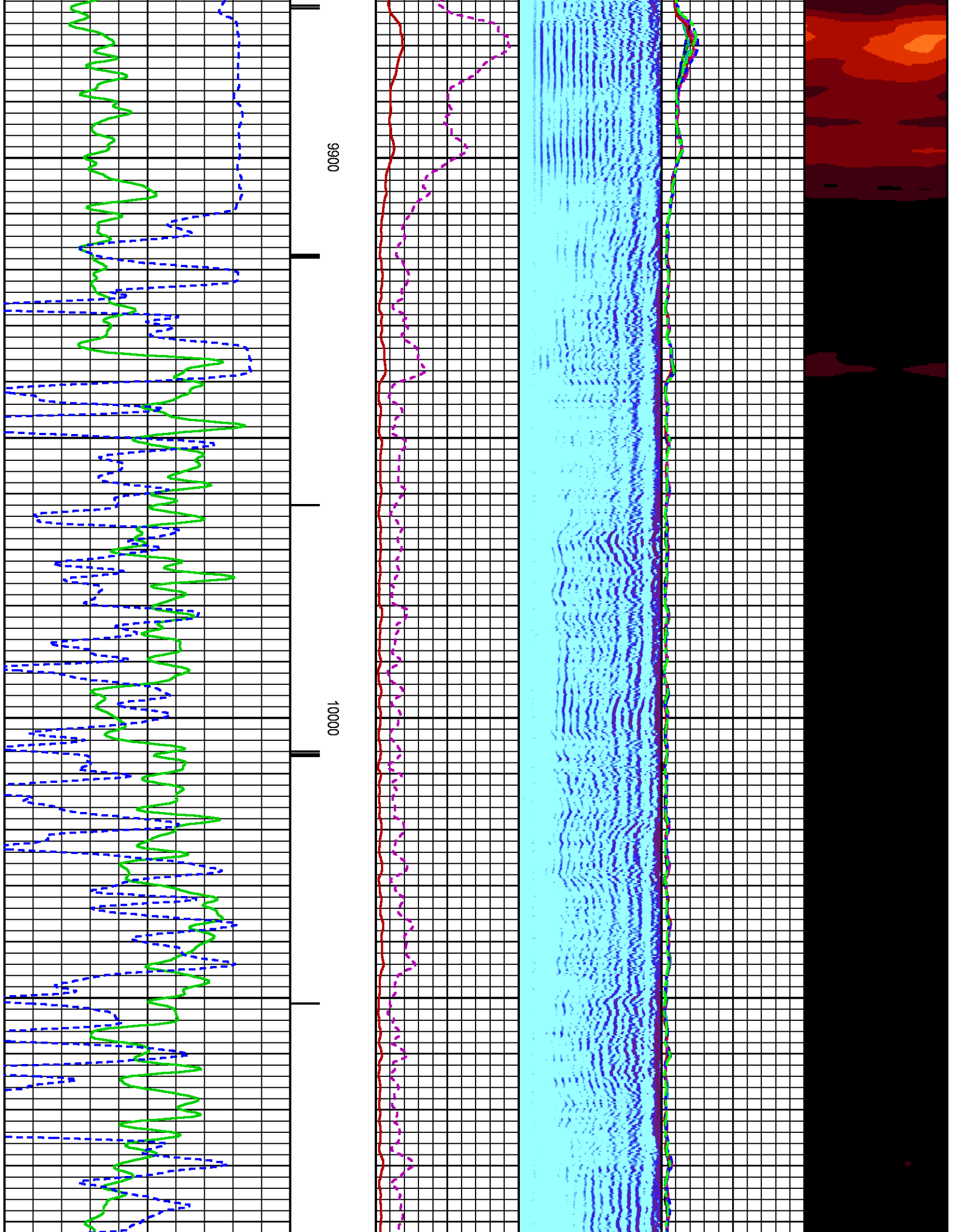


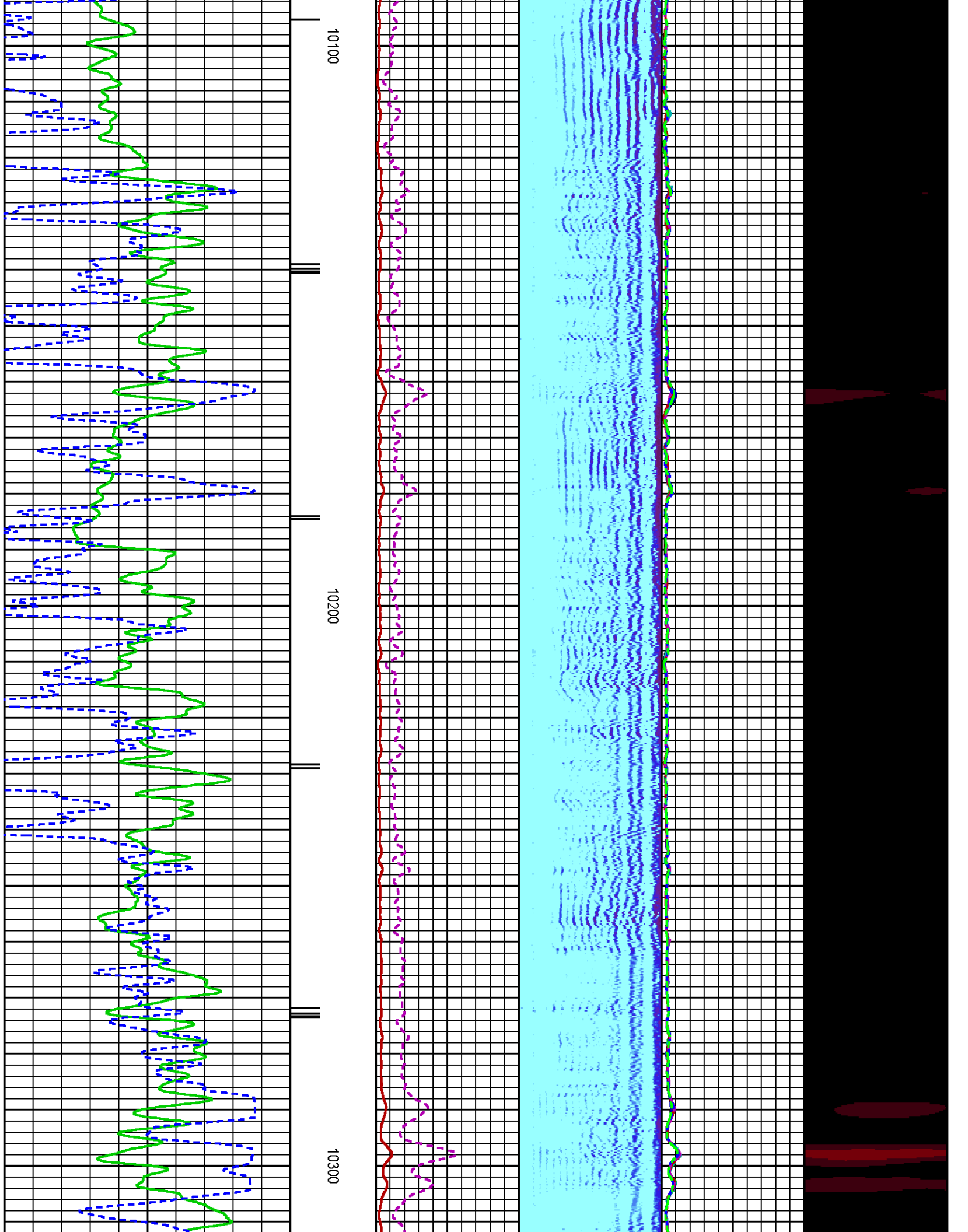


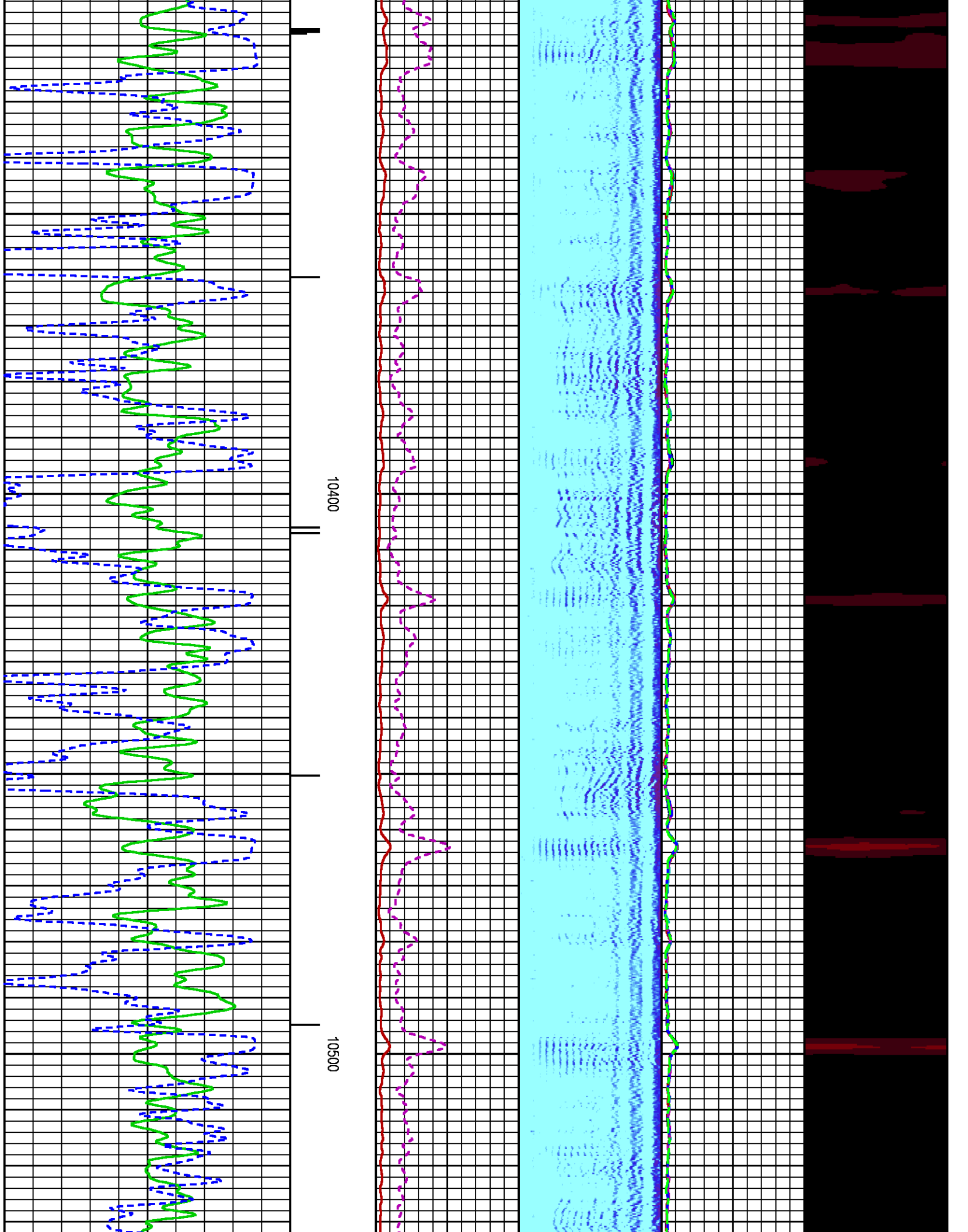


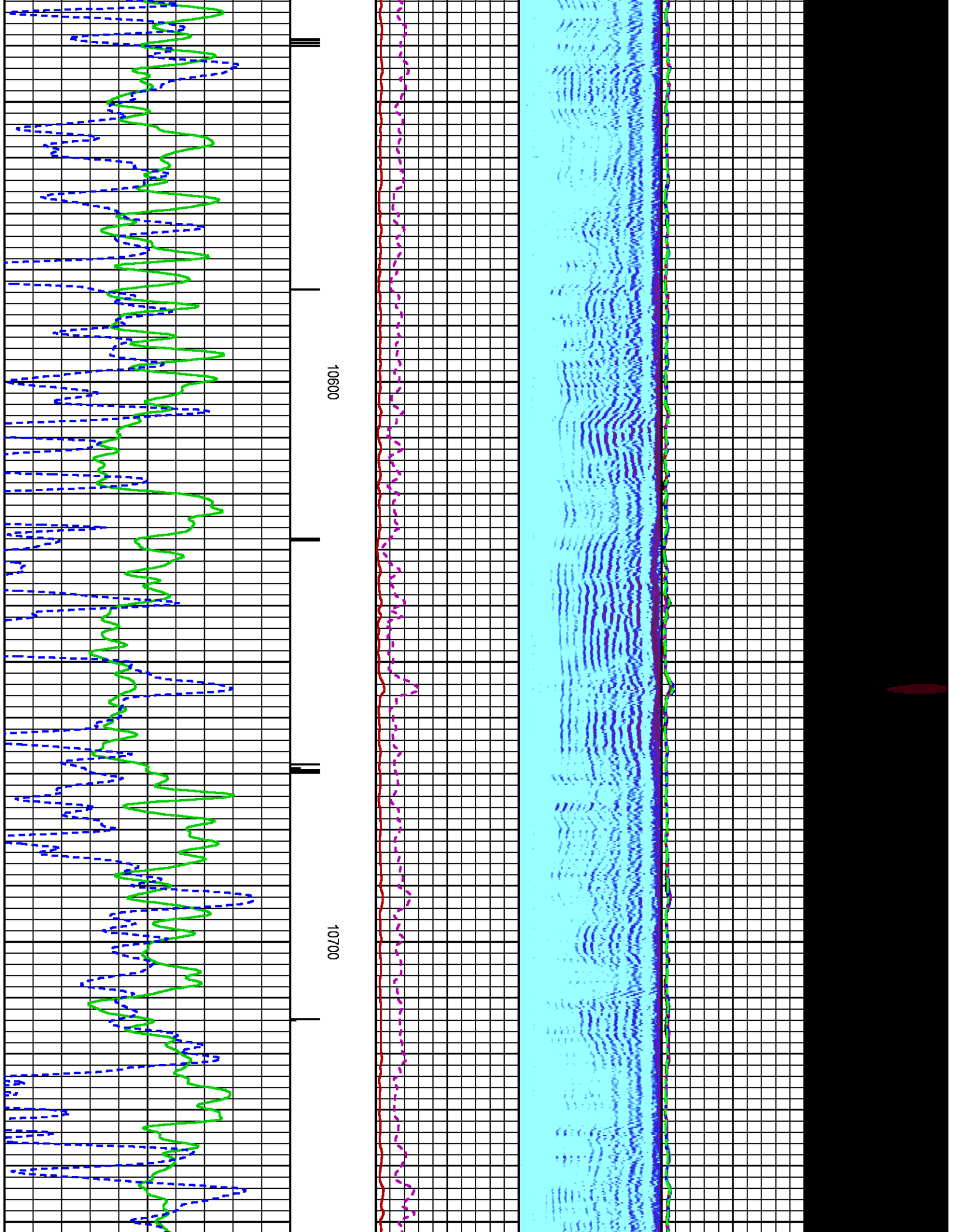


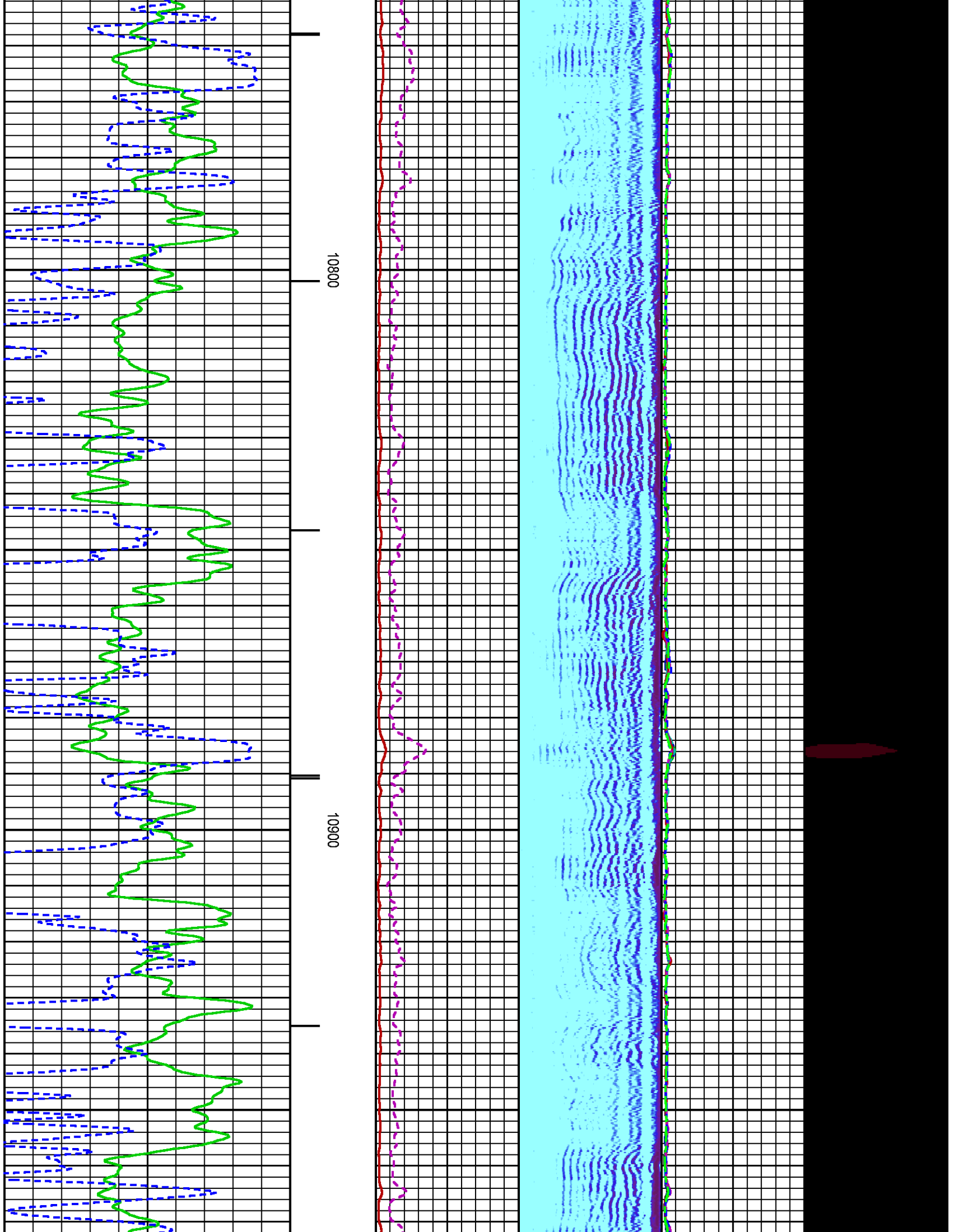


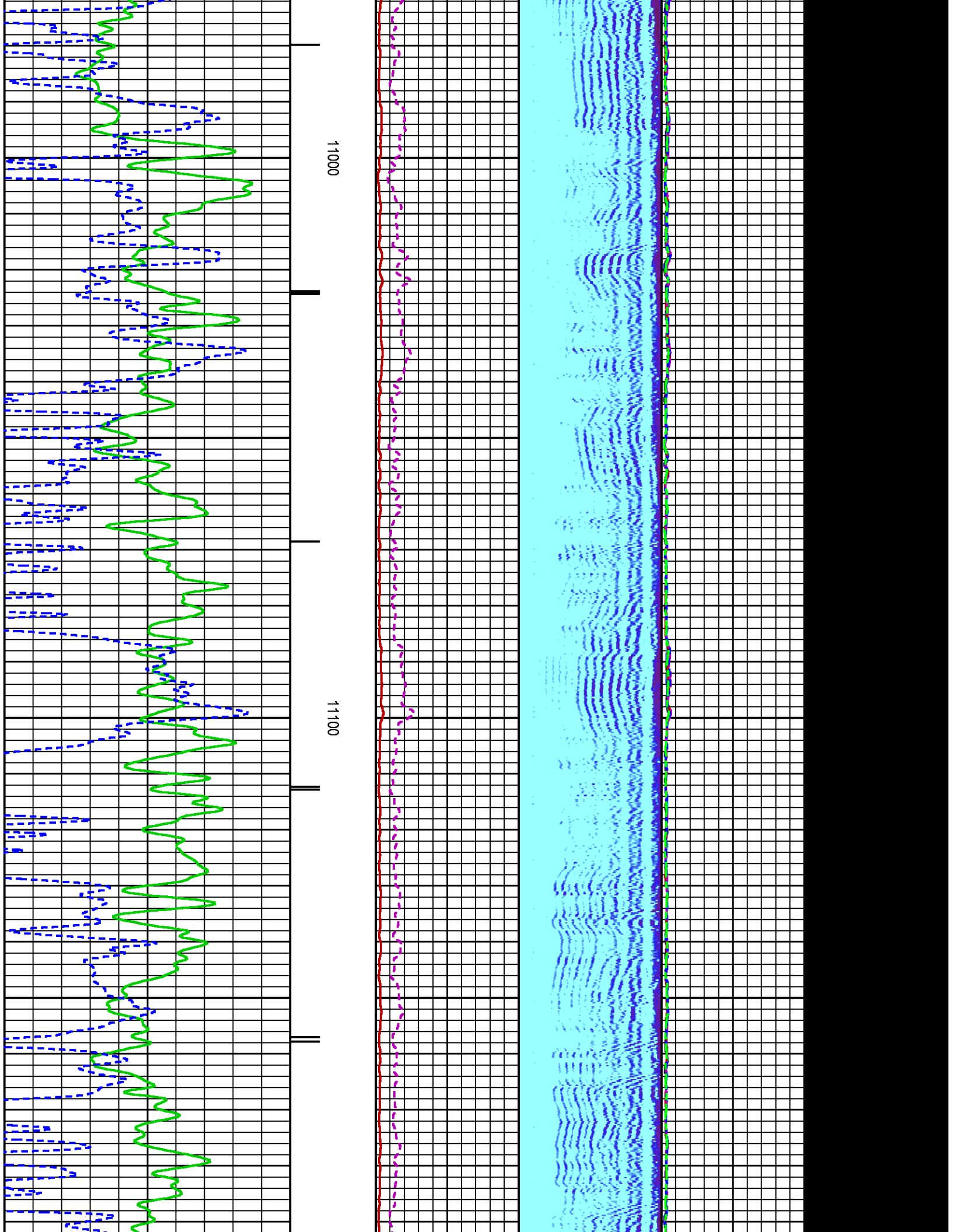


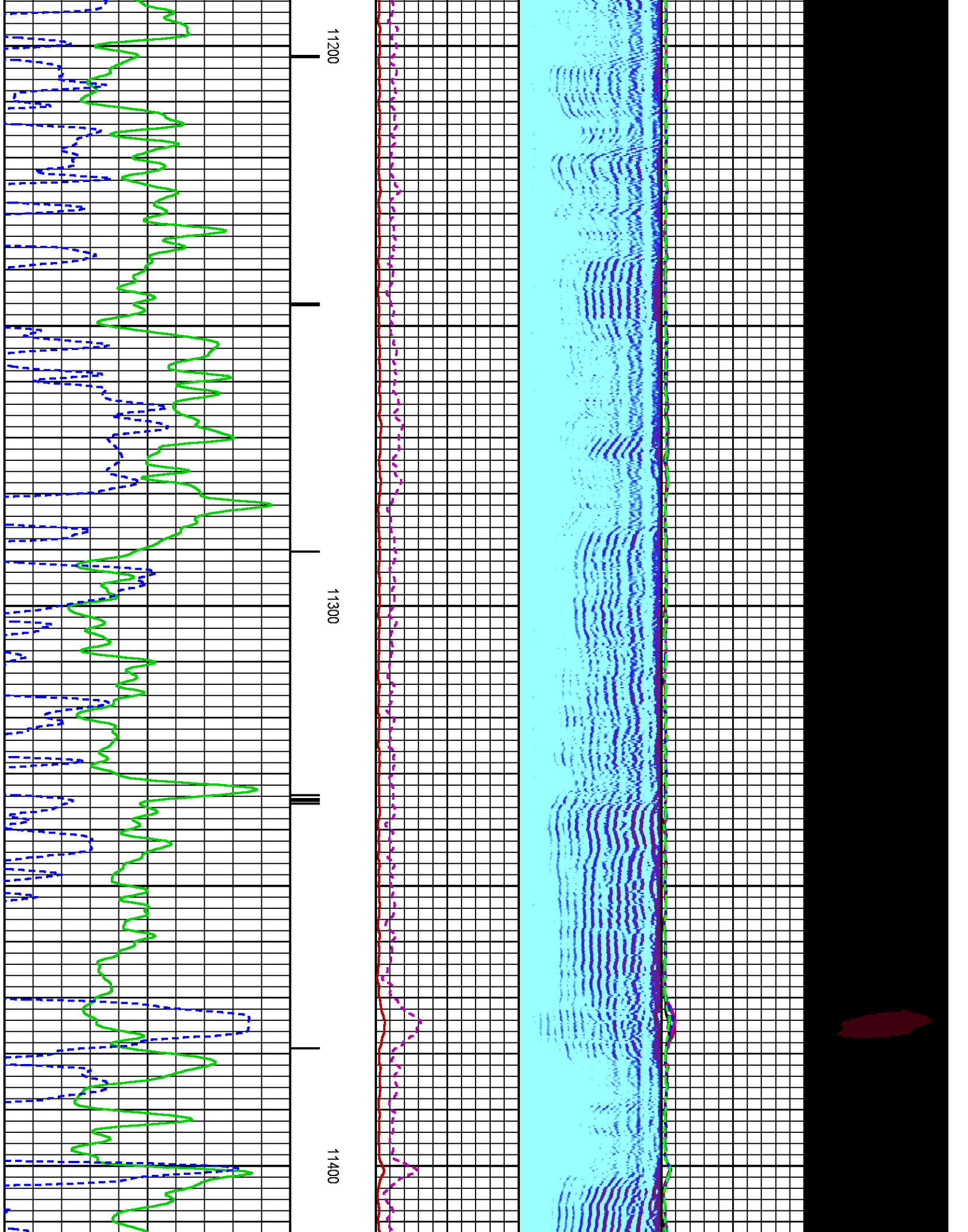


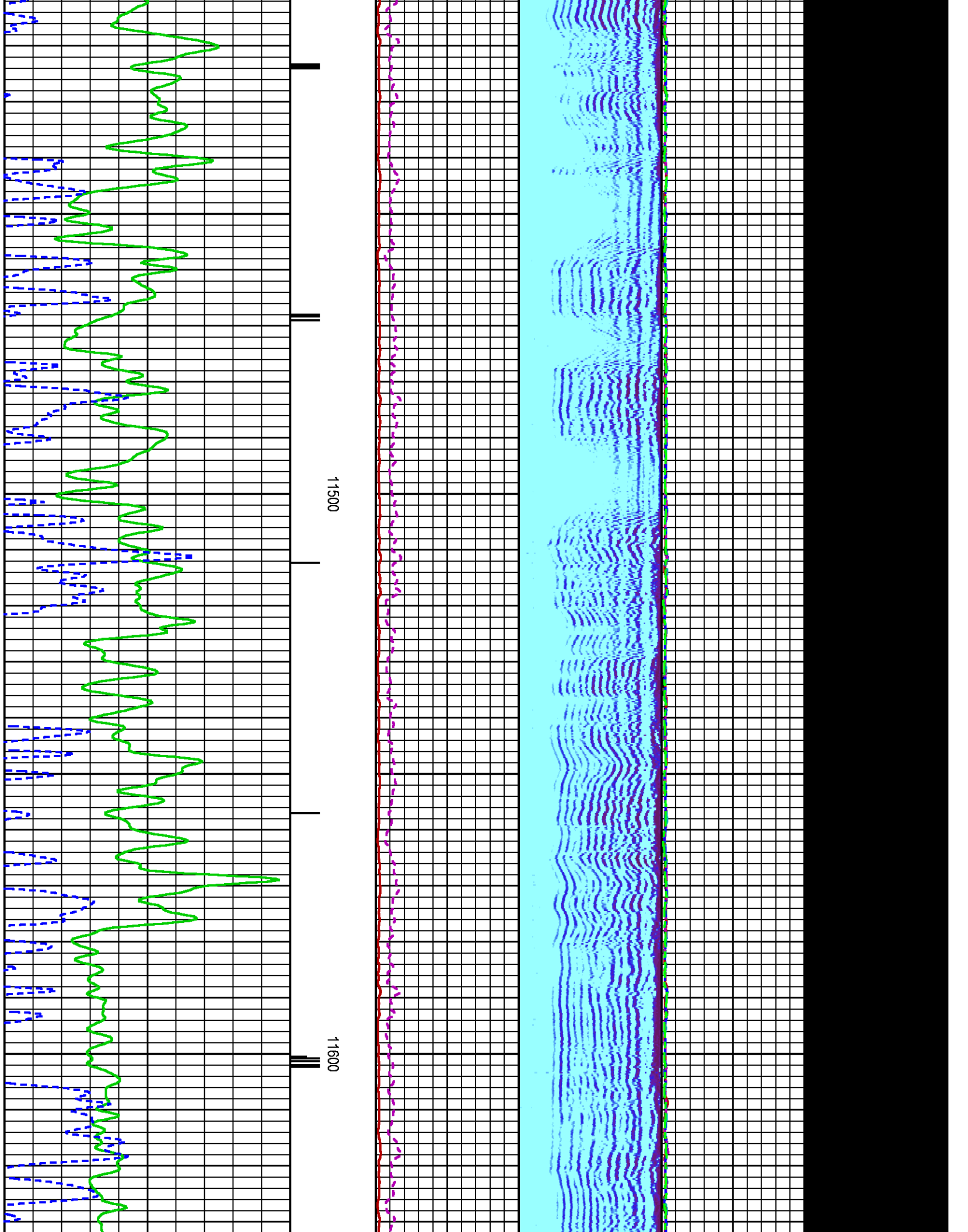


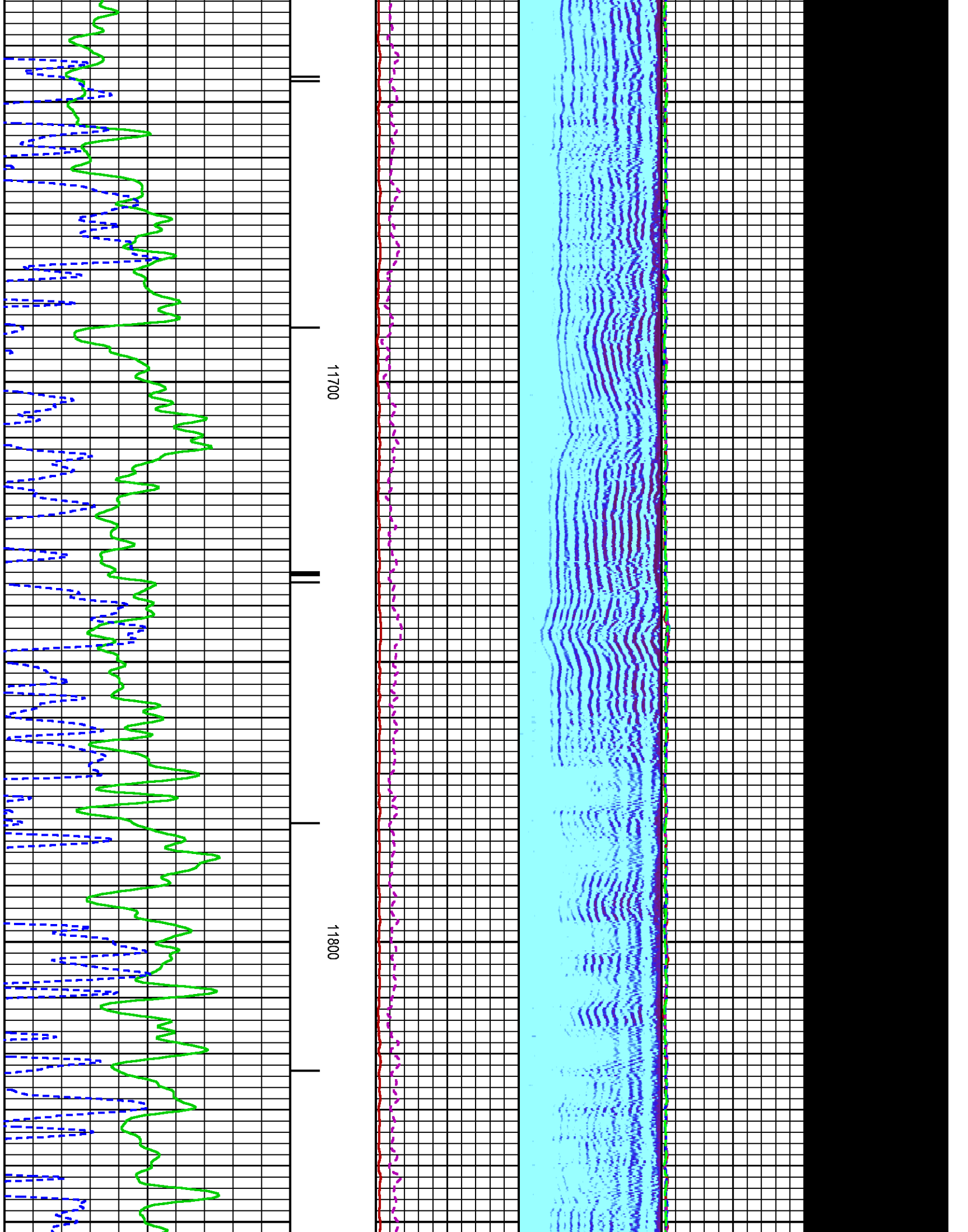


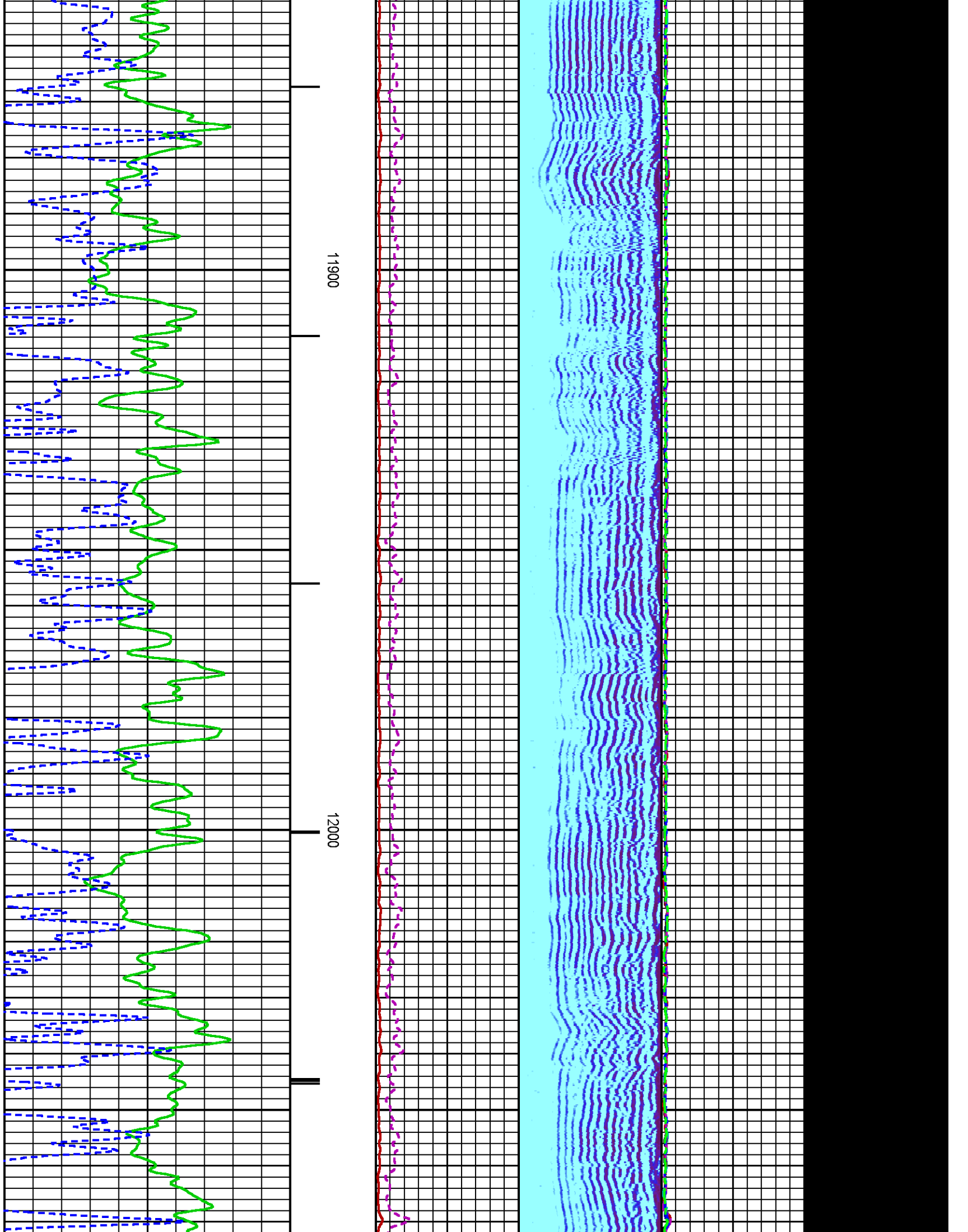


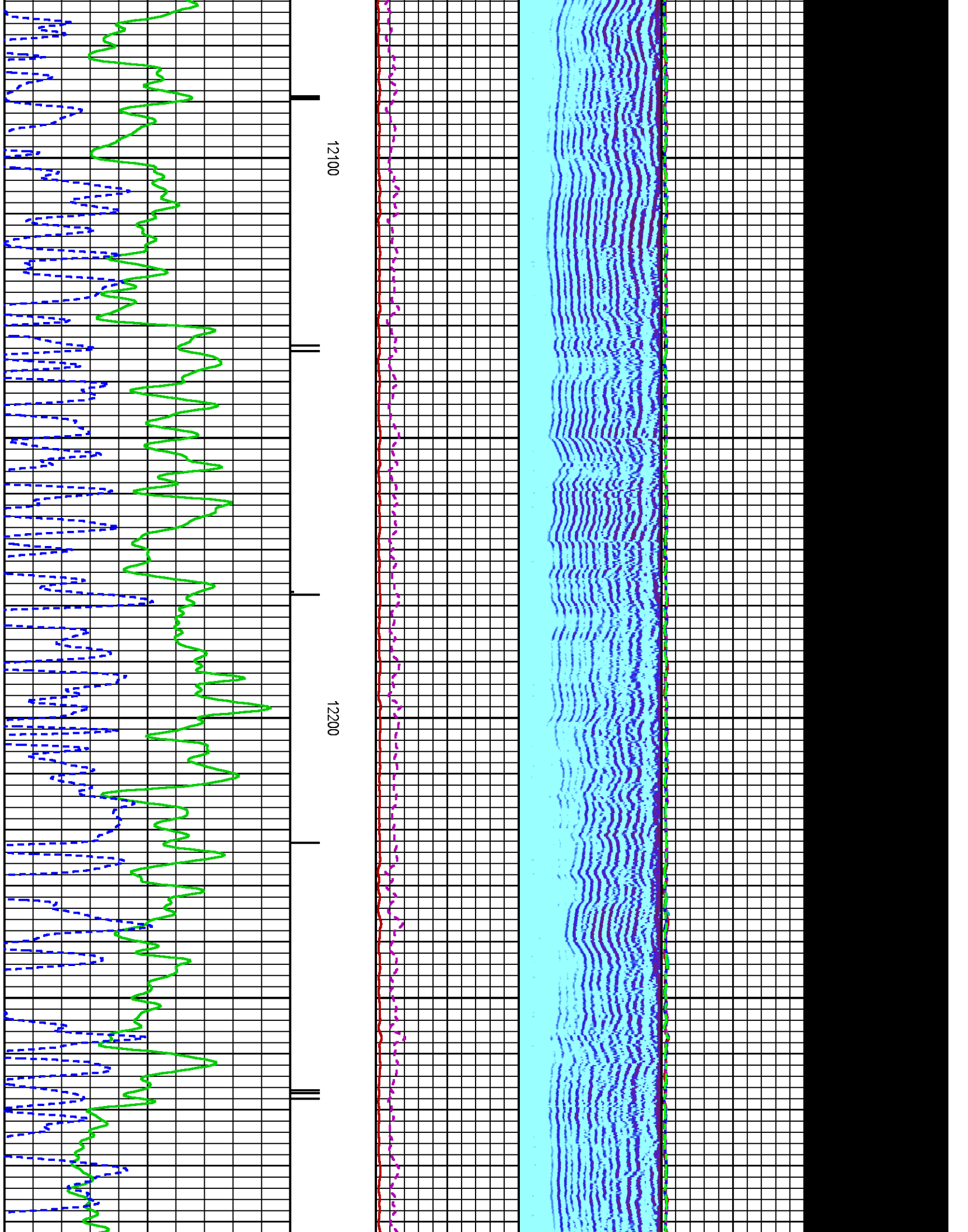


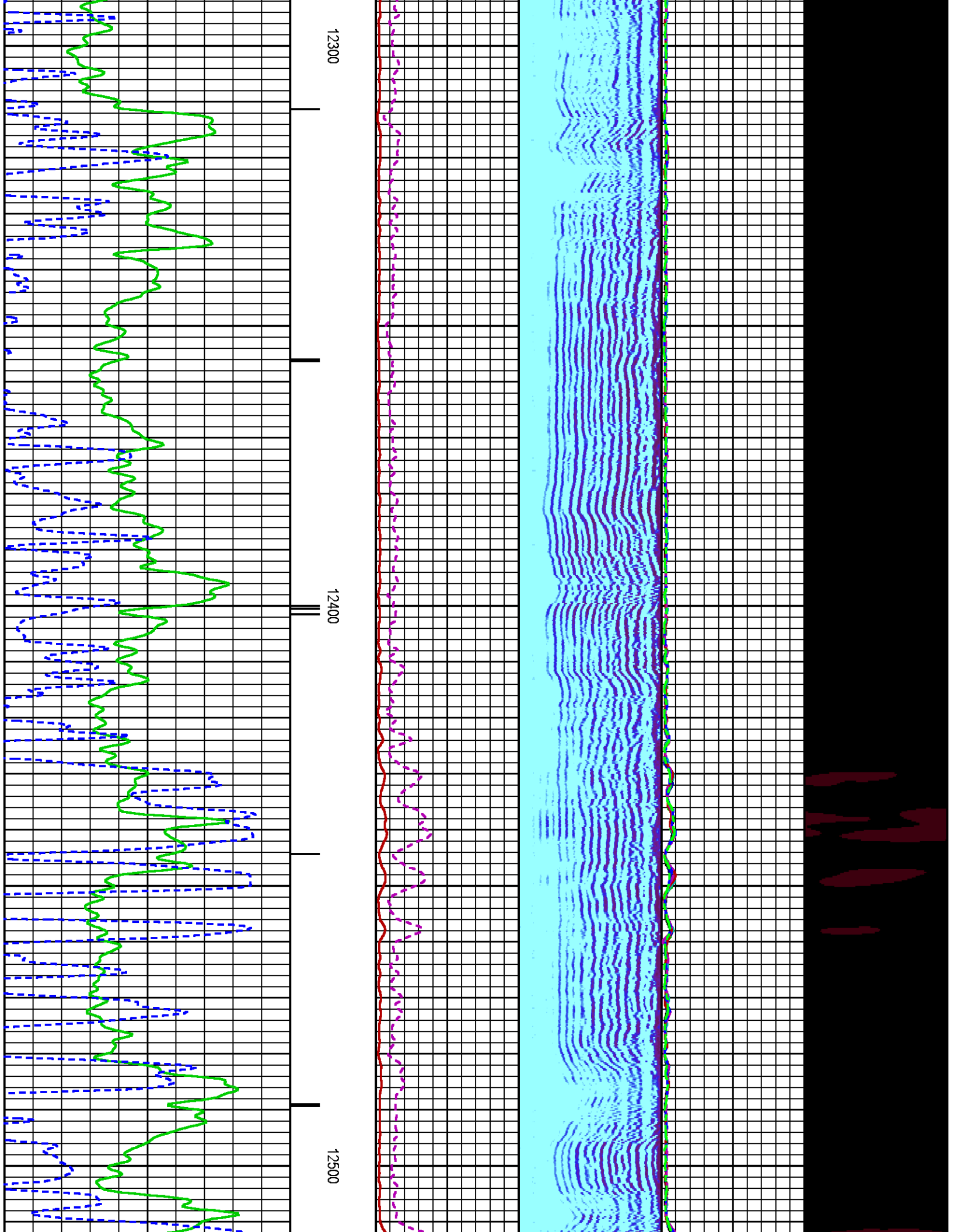


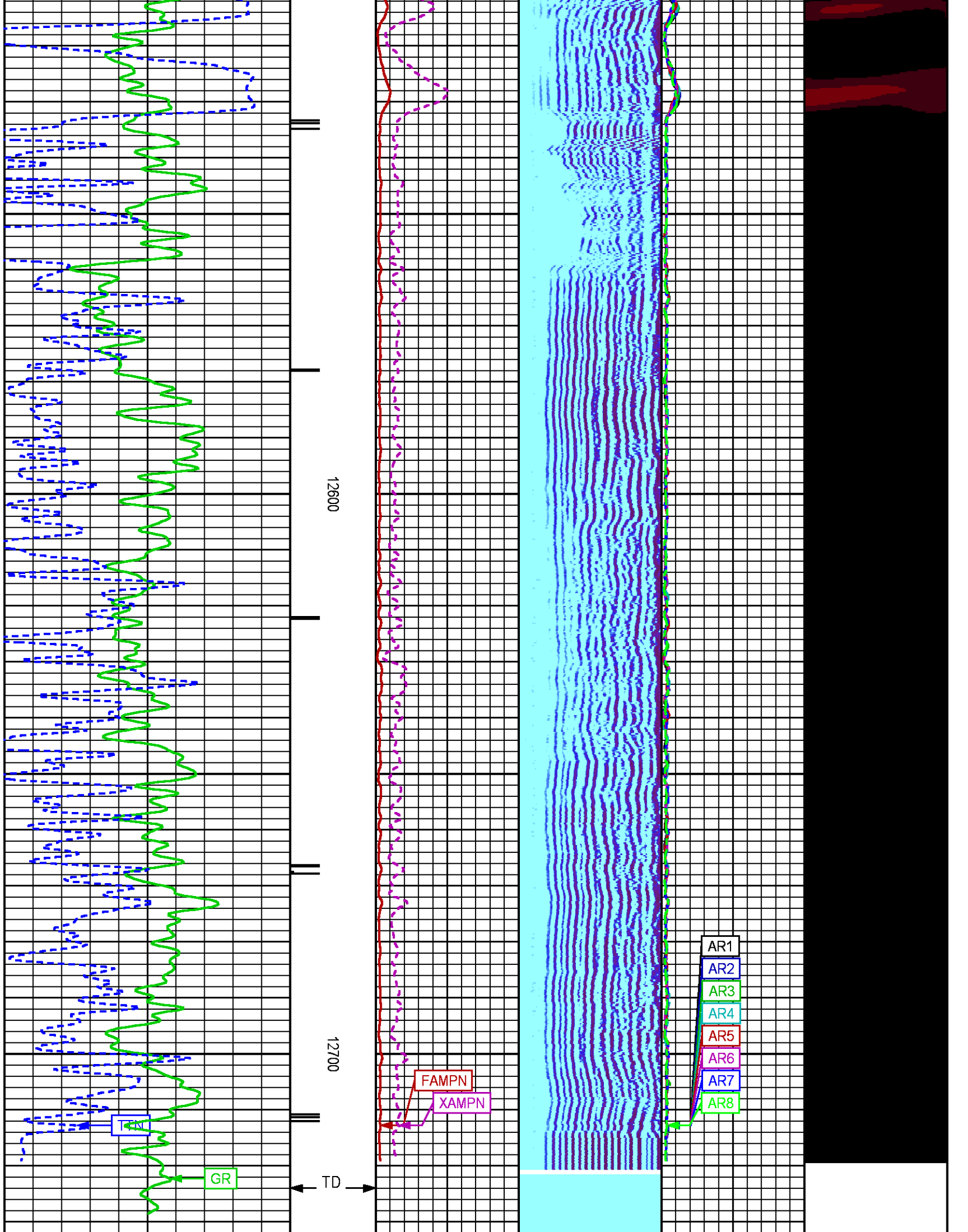


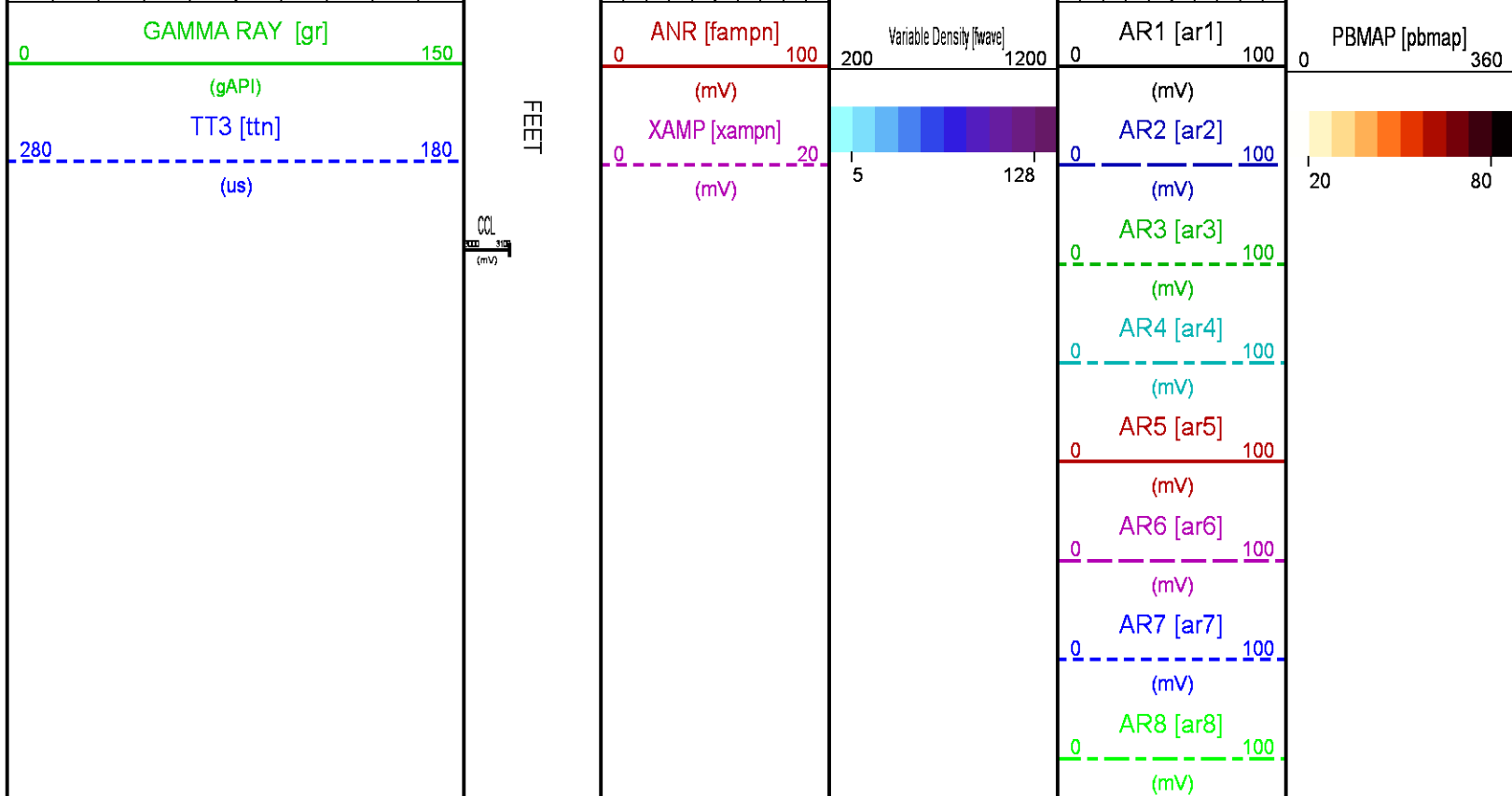












REPEAT LOG 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 46 Patches: 5

Plotted: Mon Feb 23 12:30:14 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\094614\012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 12379.500 ft BOTTOM DEPTH: 12692.828 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*)	172	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST DATA THRESHOLD (ft)	1	ft	"	"

RAL CASING PARAMETERS	FIRST BRK THRESHOLD (ttn*)	4	mv	"	"
RAL TOOL DELAY	PPT NEAR	200.391	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-74	us	"	"
	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

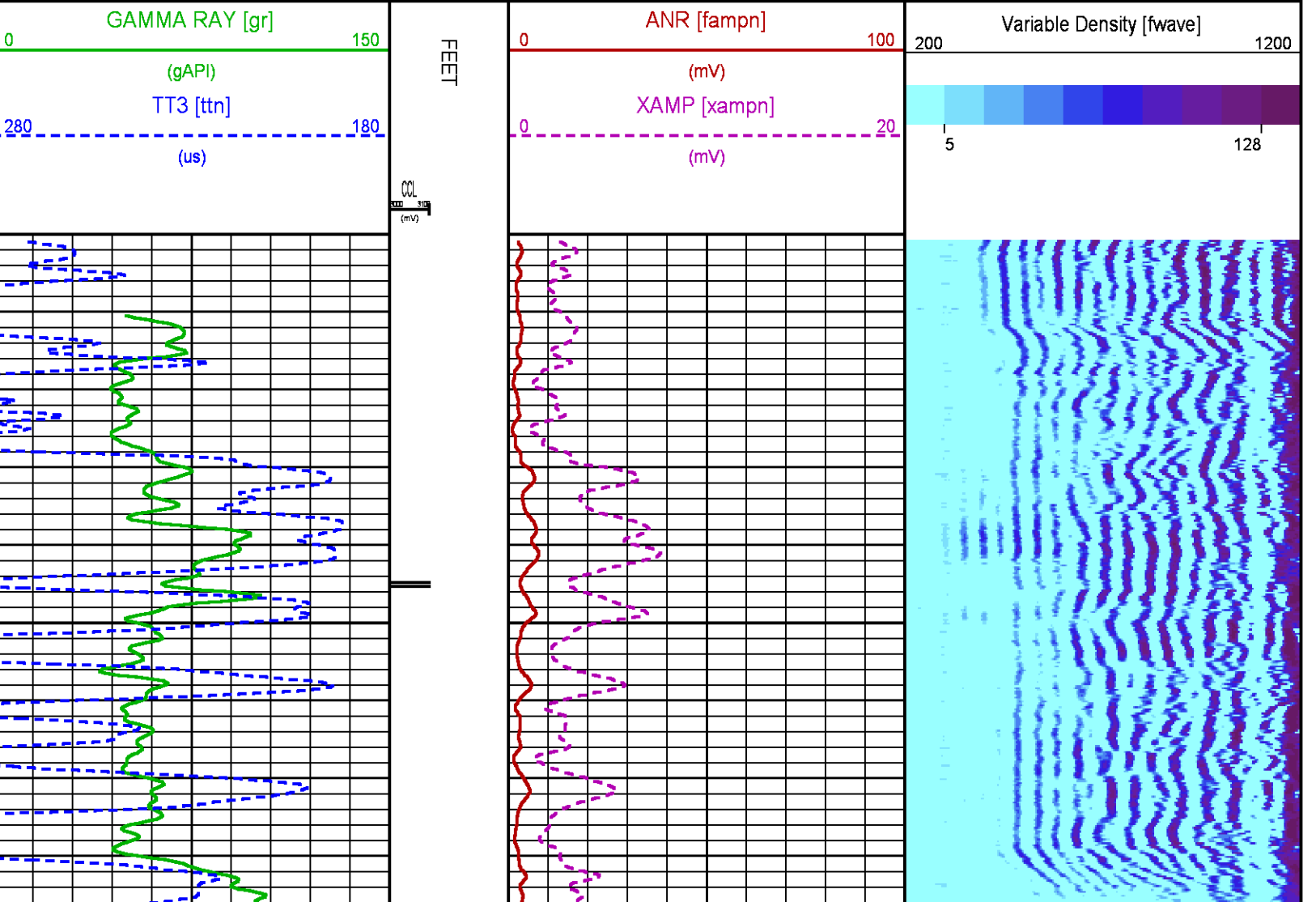
CURVE DESCRIPTION REPORT

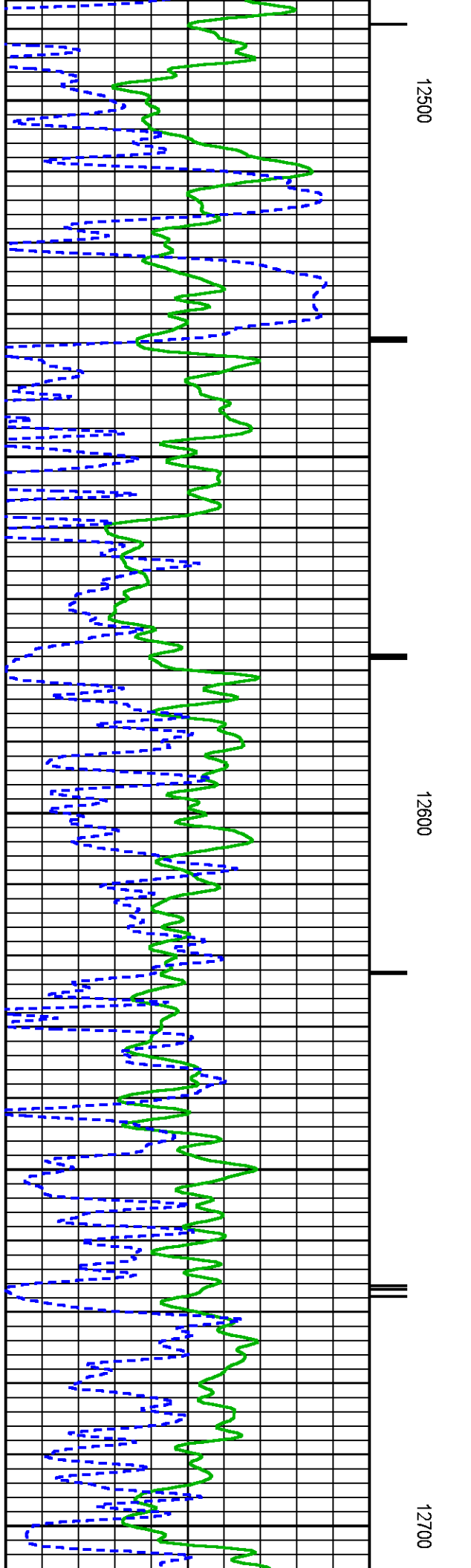
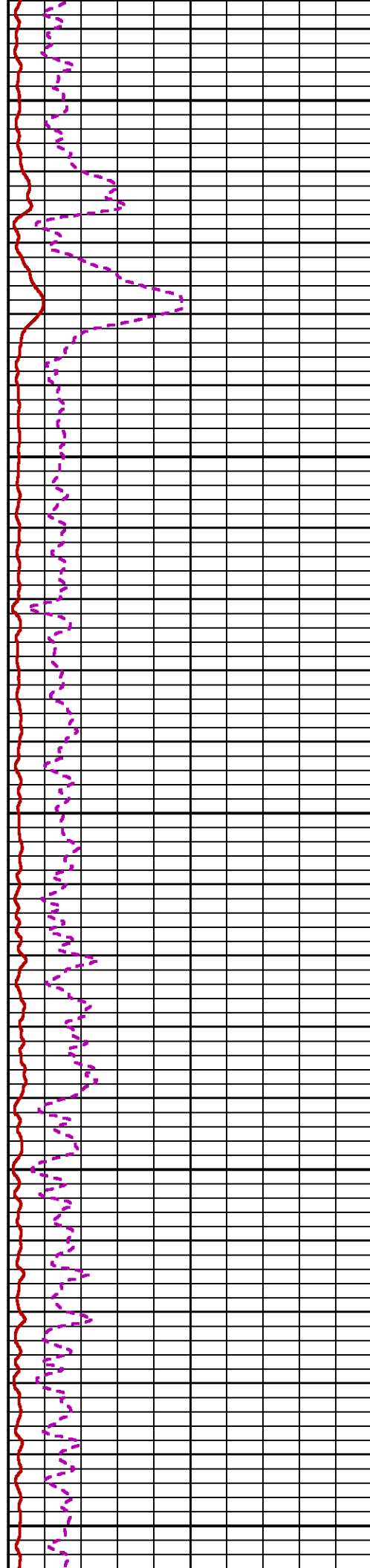
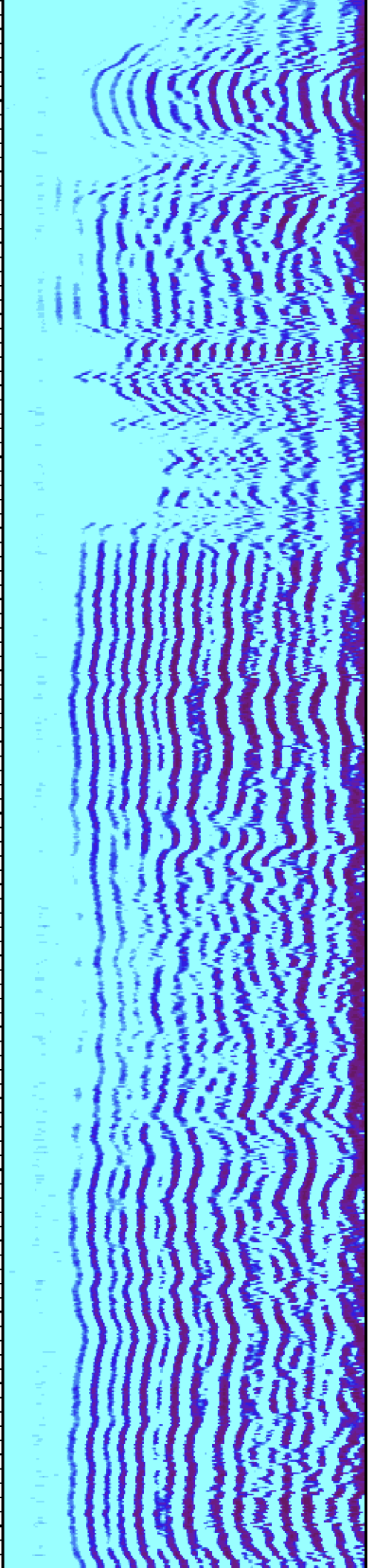
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 20 10:16:39 2015	CASING COLLAR LOCATOR
F1:FAMPN	Feb 20 10:16:39 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 20 10:16:39 2015	FAR WAVE FORM
F1:GR	Feb 20 10:16:39 2015	GAMMA RAY
F1:TTN	Feb 20 10:16:39 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 20 10:16:39 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

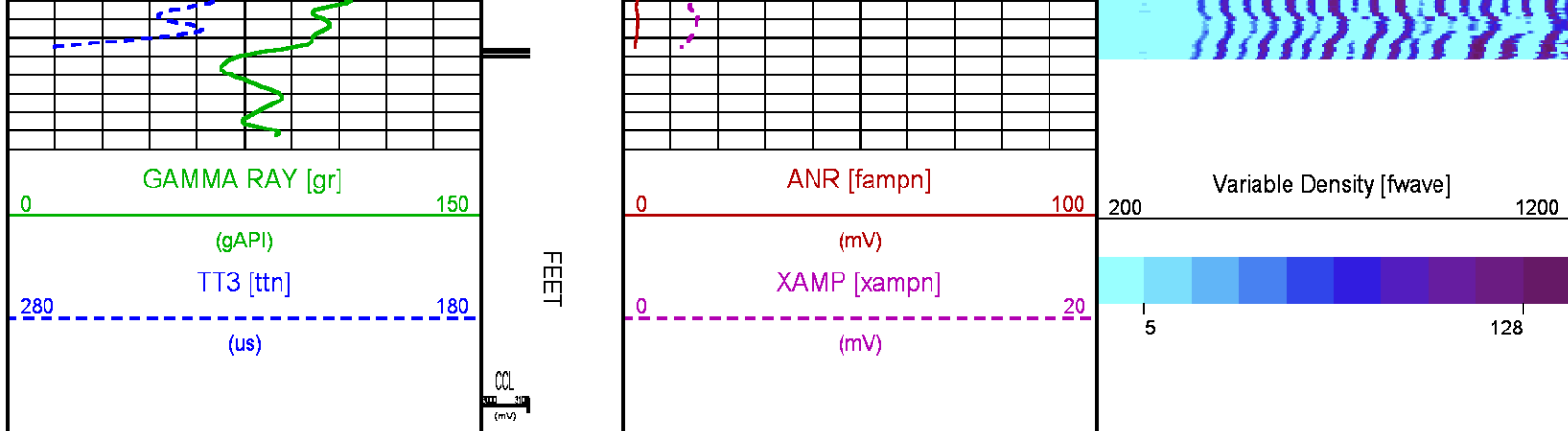
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation	: BHUGHES-06627:C:\dat1a\094614\333_CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 12400.8 - 12722 Feet
Data File 1	: F1 : BHUGHES-06627:C:\dat1a\094614\333_CBL_REPEAT.xtf
Created On	: Feb 20 10:16:39 2015
Company	: WPX ENERGY
Well	: FEDERAL RGU 333-23-198
Field	: SULPHUR CREEK
File Interval	: 12399.8 - 12723.5 Feet
OCT	: n012g







CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\094614\012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Fri Feb 20 09:15:50 2015

UNIT #: 3885TD Z004271

	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)	0.53	0.66	0.40	0.38	0.55	0.46	0.43	0.53	0.33	3.71	0.17
AMP FLUID (mV)	171	168	167	168	168	169	170	170	170	219	167
TT (us)	218	218	218	216	216	215	216	216	219	326	219
M FACTOR	0.59	0.60	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.70	0.60

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Fri Feb 20 09:24:47 2015

DAYS SINCE CAL: 0

UNIT #: 3885TD Z004271

CABLE #: 4271LG LARGE1

	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	0.14	0.05	0.00	0.00	0.01	0.05	0.00	0.04	1.00	0.00

ZERO	-0.03	-0.14	-0.05	-0.02	-0.00	-0.01	-0.05	-0.02	-0.04	1.62	0.09
AMP AIR	3.08	3.25	3.26	3.39	3.58	3.47	3.39	3.31	2.92	4.11	100.23

SHOP	SHOP	WIRELINE
M FACTOR	A FACTOR	FACTOR
0.60	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #:	1355XA 10580209	DATE/TIME PERFORMED:	Thu Jan 29 11:16:54 2015
UNIT #:	3885TD Z004271	CALB JIG #:	4702NK WA612

	BACKGROUND	CALBRTR ON	CR DIFF	MULT	BACKGROUND	CALBRTR ON	CALBRTR
	(cts)	(cts)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	178.13	754.00	575.9	0.321	57.23	242.23	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #:	1355XA 10580209	DATE/TIME PERFORMED:	Thu Jan 29 11:18:25 2015
UNIT #:	3885TD Z004271	VERI JIG #:	4702NK WA612

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts)	(cts)		(gAPI)	(gAPI)	(gAPI)
GR	174.67	773.60	0.321	56.11	248.52	192.41
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: C:\dat1a\094614\CBL-tdg.meta

A3 CABLEHEAD
Diameter : 1.37"



18.85'

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 11.17'

FAR RCVR 10.21'

RAL GR/TEMP/CCL/CHV DETECTOR


Diameter : 2.75"
 Length : 6.96'
 Weight : 85 lbs
 Series : 1355XA
 Mnemonic : RAL
 Measure Point: 5.79': CCL
 Measure Point: 1.67': GR
 Measure Point: 0.17': TEMP

CCL 5.79'

GR 1.67'

TEMP 0.17'

TOTAL LENGTH: 18.85'
 TOTAL WEIGHT: 227 lbs
 MAX DIAMETER: 04.00"

	COMPANY <u>WPX ENERGY</u>		FILE NO:
	WELL <u>FEDERAL RGU 333-23-198</u>		<u>CH094614</u>
	FIELD <u>SULPHUR CREEK</u>		API NO:
	COUNTY <u>RIO BLANCO</u>	STATE <u>COLORADO</u>	<u>05103121430000</u>
LOCATION: SHL: 1050' FSL & 635' FEL BHL: 2097' FSL & 1908' FSL (NWSE)		ELEVATIONS: KB 6643 FT DF GL 6622 FT	<u>23 1S 98W</u> <u>RGU 43-26-198</u> <u>AZTEC 1000</u>
SEC <u>26</u> TWP <u>1S</u> RGE <u>98W</u>		DATE <u>20-Feb-2015</u>	