



FILE NO: CH092561
API NO: 05103121390000
COMPANY: WPX ENERGY
WELL: FEDERAL RGU 444-23-198
FIELD: SULPHUR CREEK
COUNTY: RIO BLANCO
STATE: COLORADO

Version: 23 1S 98W
RGU 43-23-198 PA
AZTEC 1000
LOCATION: SHL: 1028' FSL & 645' FEL
BHL: 477' FSL & 631' FEL
SEC 23 TWP 1S RGE 98W
OTHER SERVICES: RPM

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

DATE	12-Dec-2014
RUN	1
TRIP	1
SERVICE ORDER	US092551
DEPTH DRILLER	12623 FT
DEPTH LOGGER	12596 FT
BOTTOM LOGGED INTERVAL	12586 FT
TOP LOGGED INTERVAL	25 FT
TIME STARTED	1600
TIME FINISHED	2100
OPERATOR RIG TIME	5 HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	82 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 HUGHE OPEN LOG
REFERENCE LOG DATE	21-Nov-2014
EQUIP. NO.	4271
LOCATION	GRAND JCT
RECORDED BY	FLOYD RENEAU
WITNESSED BY	DUSTIN WELSH

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	25 FT	80 FT
13.5 IN	80 FT	3898 FT
7.875 IN	3898 FT	12623 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
18 IN			25 FT	80 FT
9.625 IN			25 FT	3898 FT
4.5 IN	11.6 LB/F	P-110	25 FT	12623 FT

CEMENTING DATA								
JOB TYPE	FROM	TO	TIME	DATE	CEMENT TYPE	DENSITY	VOLUME	ADDITIVES

PERFORATION RECORD						
PERFORATION TYPE	POSITION	PHASING	SPACING	DENSITY	FROM	TO

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 11/21/2014 at the clients request.

clients request.
The depth matching process creates potential for collar lengths to vary
from those recorded on other cased hole wireline units without a
Gamma Ray reference.
The amount of linear shift is 8.5 feet.
Logged with Zero PSI at wellhead.

BHT = 287degF

SJ = 7326'-7348'

Thanks you for choosing Baker-Hughes.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	VDL	1426XA	10218495	CENT
1	1	GR/CCL	1355XA	10580209	CENT

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: Sat Dec 13 12:07:22 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\data\1a\092551\012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 29.250 ft BOTTOM DEPTH: 12589.000 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*)	171	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
FLUOR	2014-12-13 12:07:22 PM	CASING CCL AND RAL

F1:CCL
F1:FAMPN
F1:FWAVE
F1:GR
F1:TTN
F1:XAMPN

Dec 13 10:50:32 2014
Dec 13 10:50:32 2014
Dec 13 10:50:33 2014
Dec 13 10:50:33 2014
Dec 13 10:50:33 2014
Dec 13 10:50:33 2014

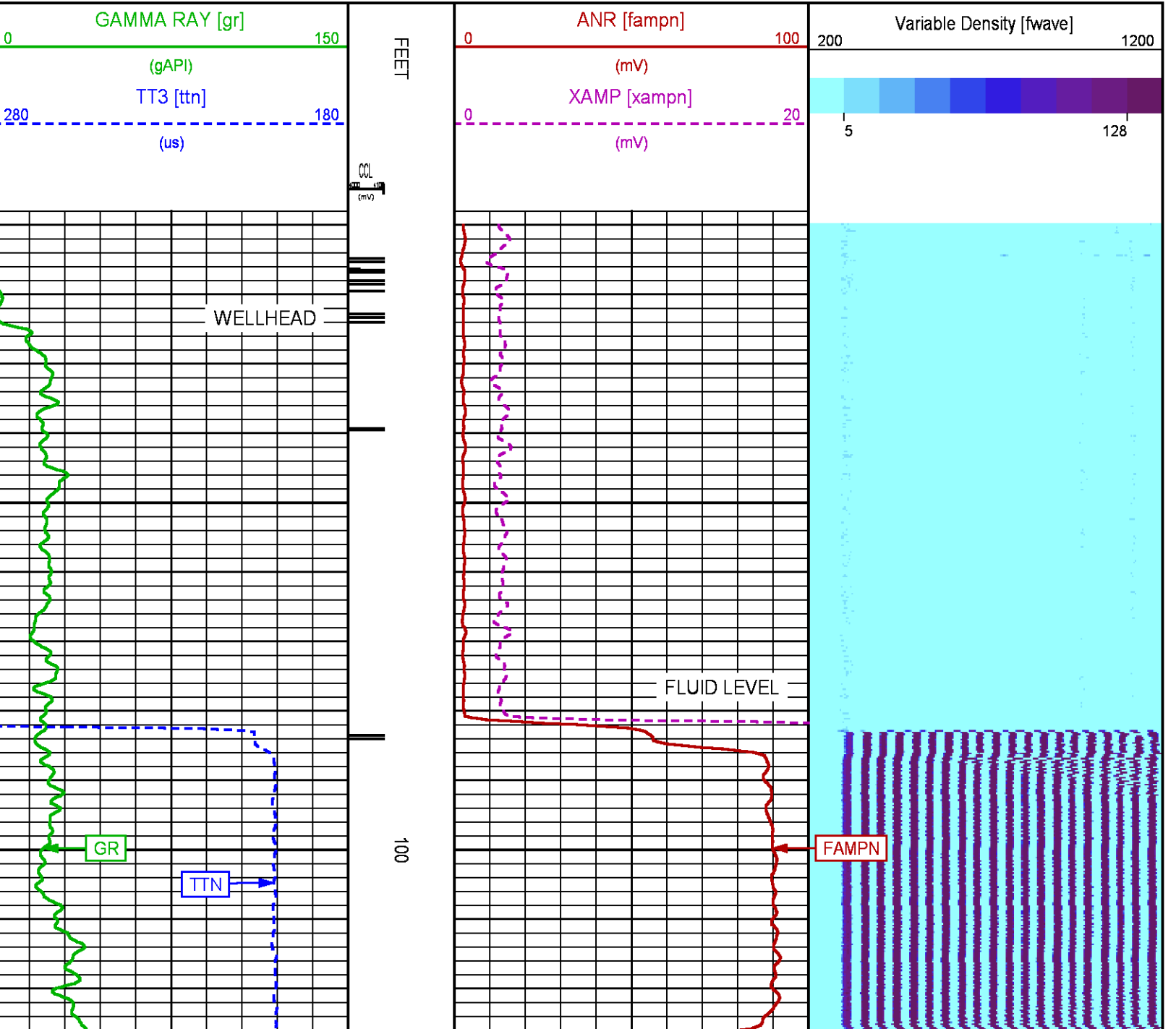
CASING COLLAR LOCATOR
FIXED GATE AMPLITUDE NEAR RECEIVER
FAR WAVE FORM
GAMMA RAY
TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

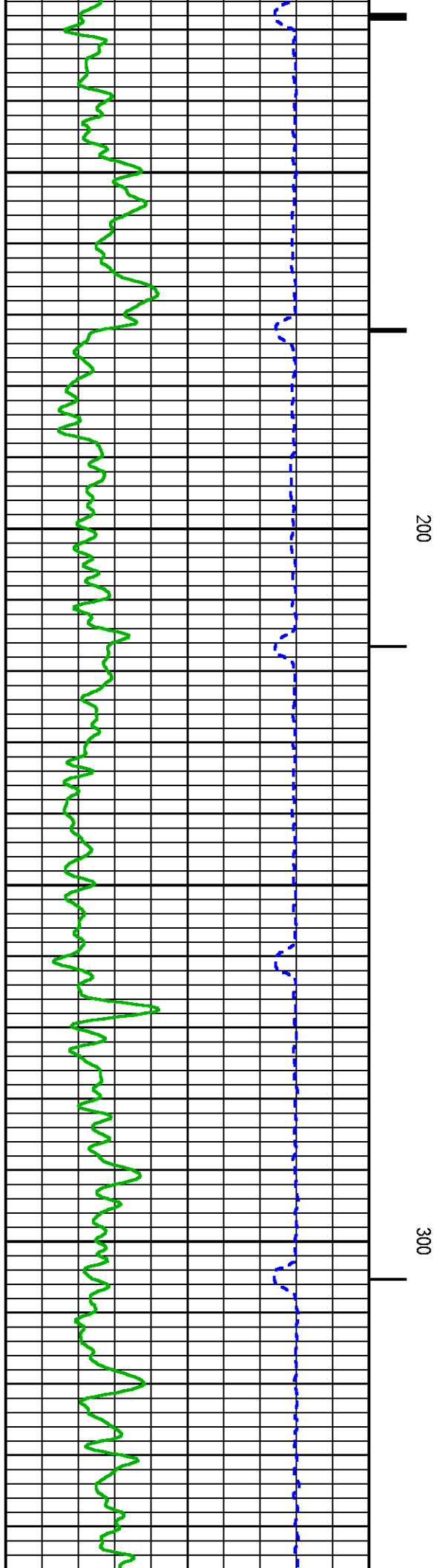
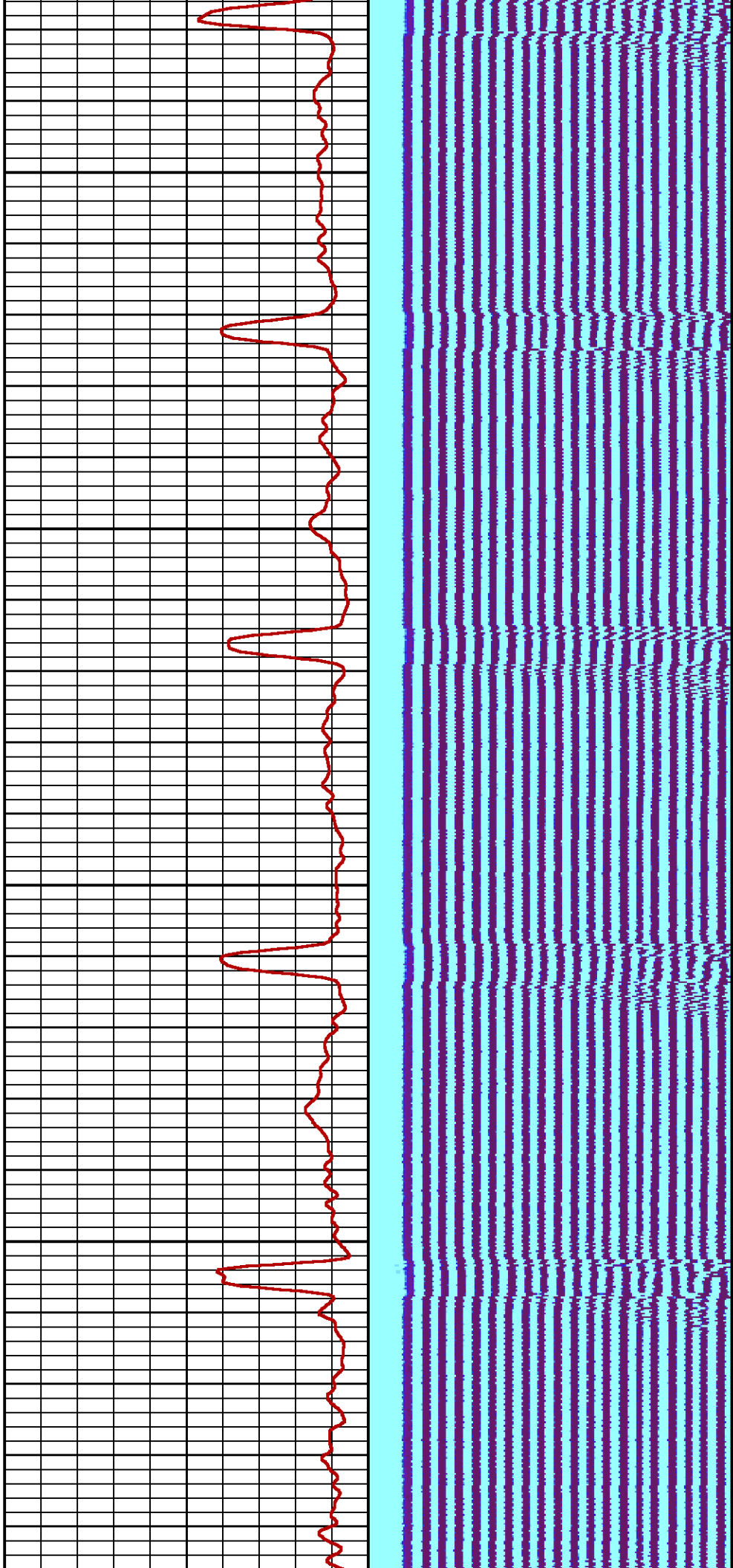
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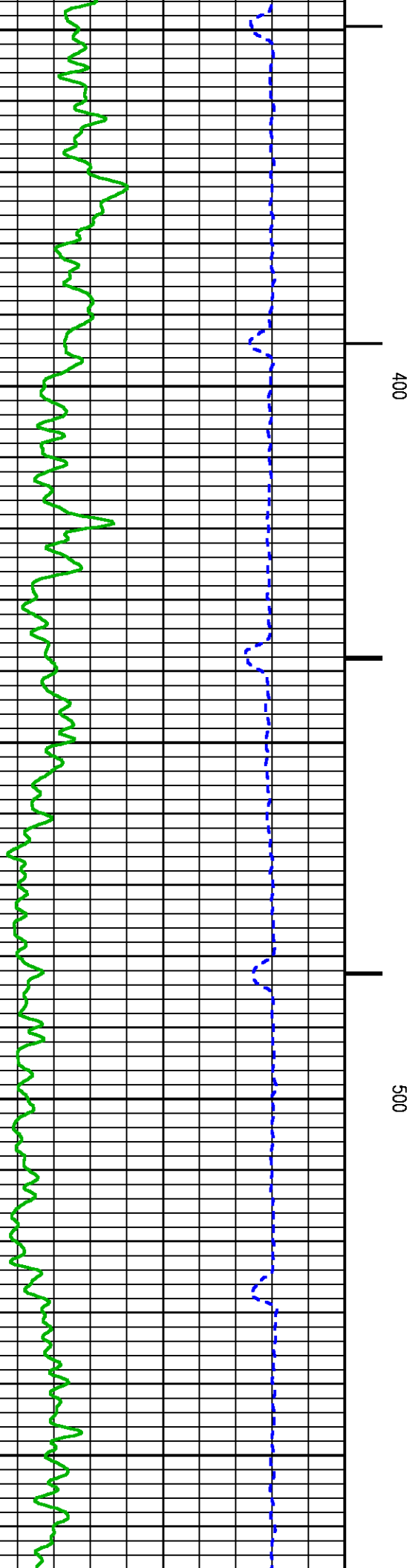
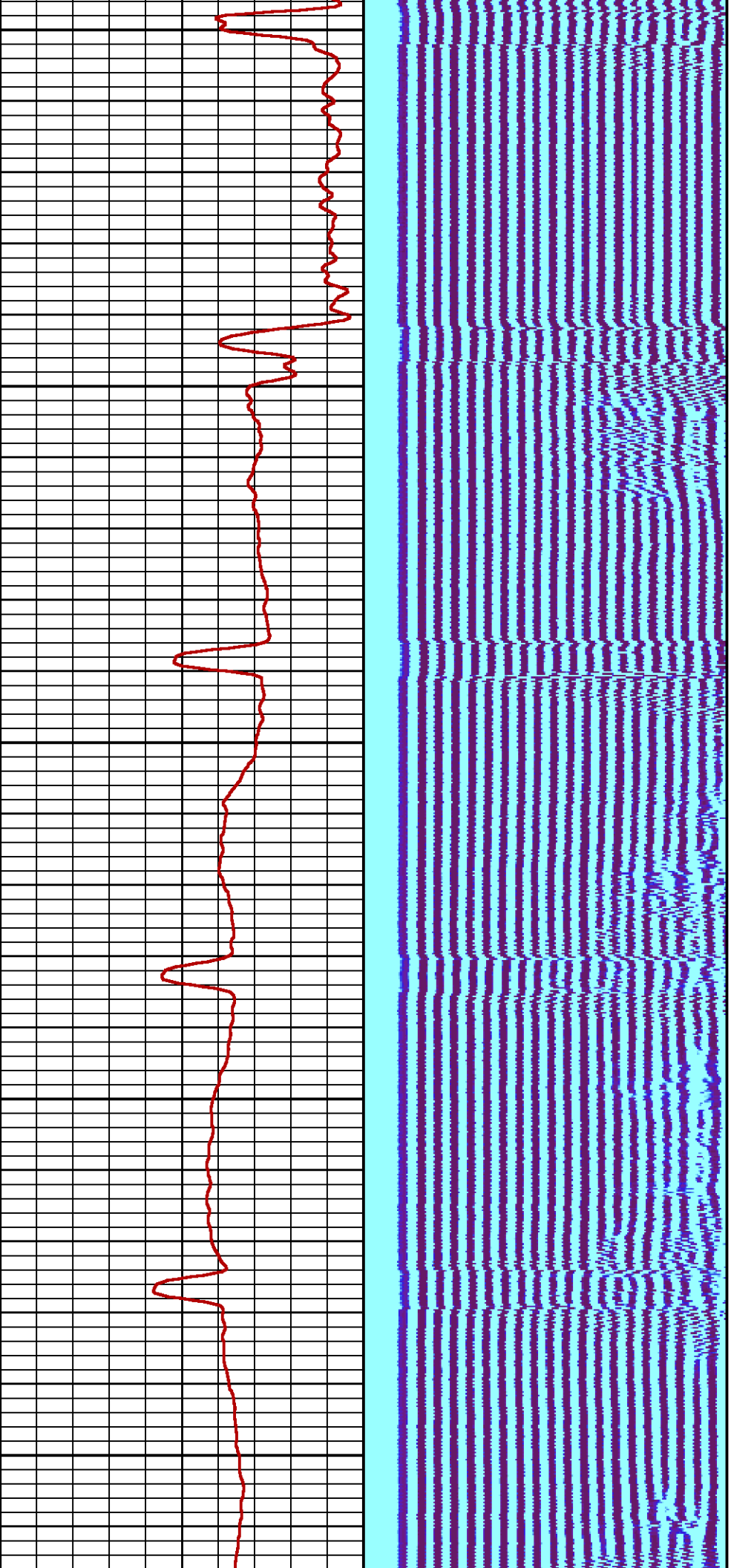
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

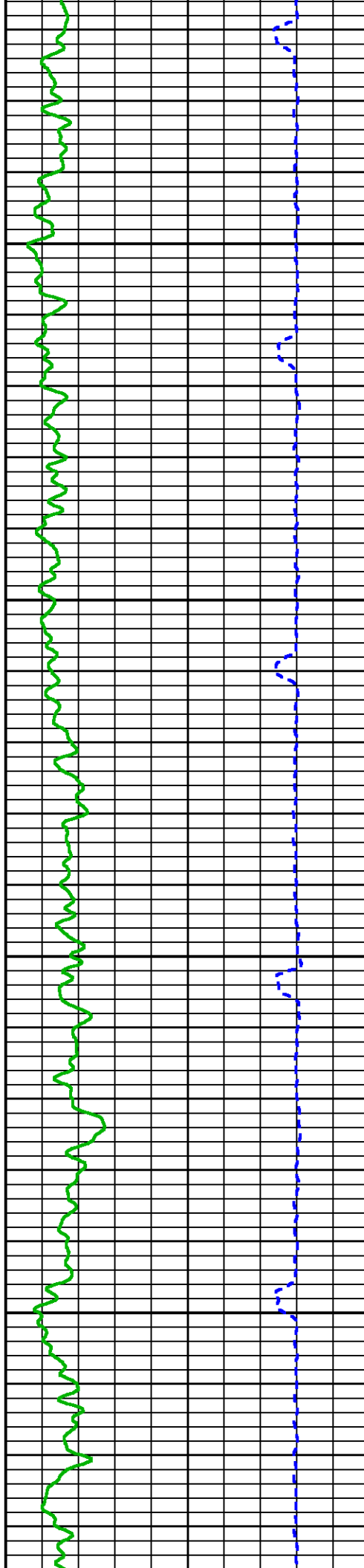
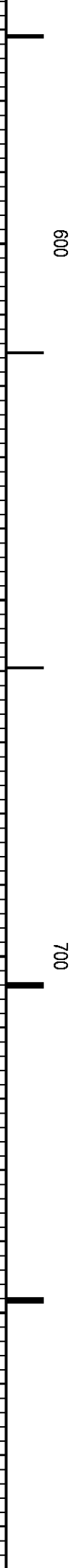
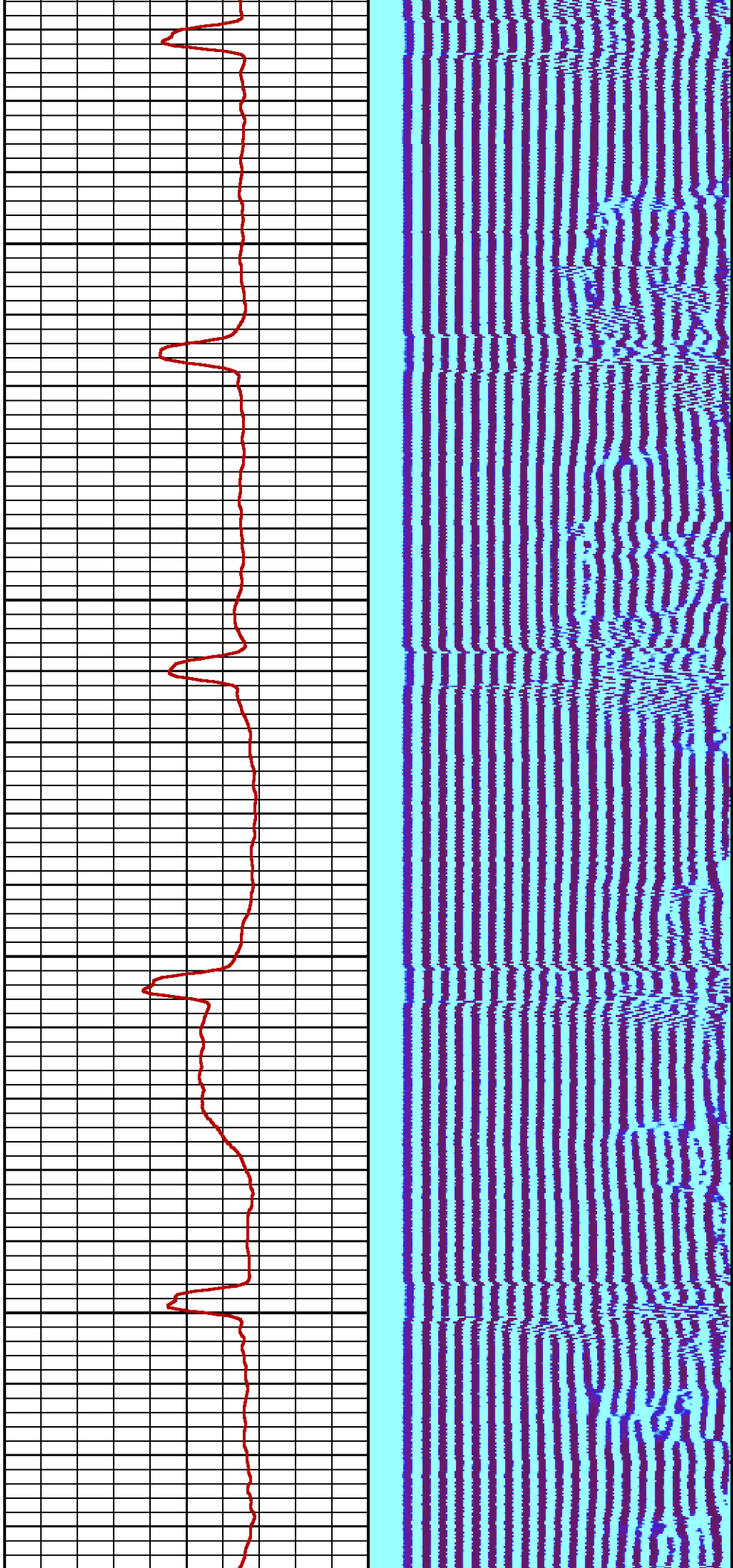
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Plot Interval : 9.75 - 12597.5 Feet

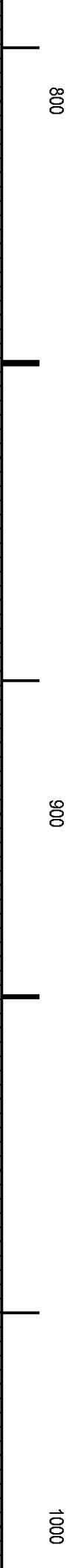
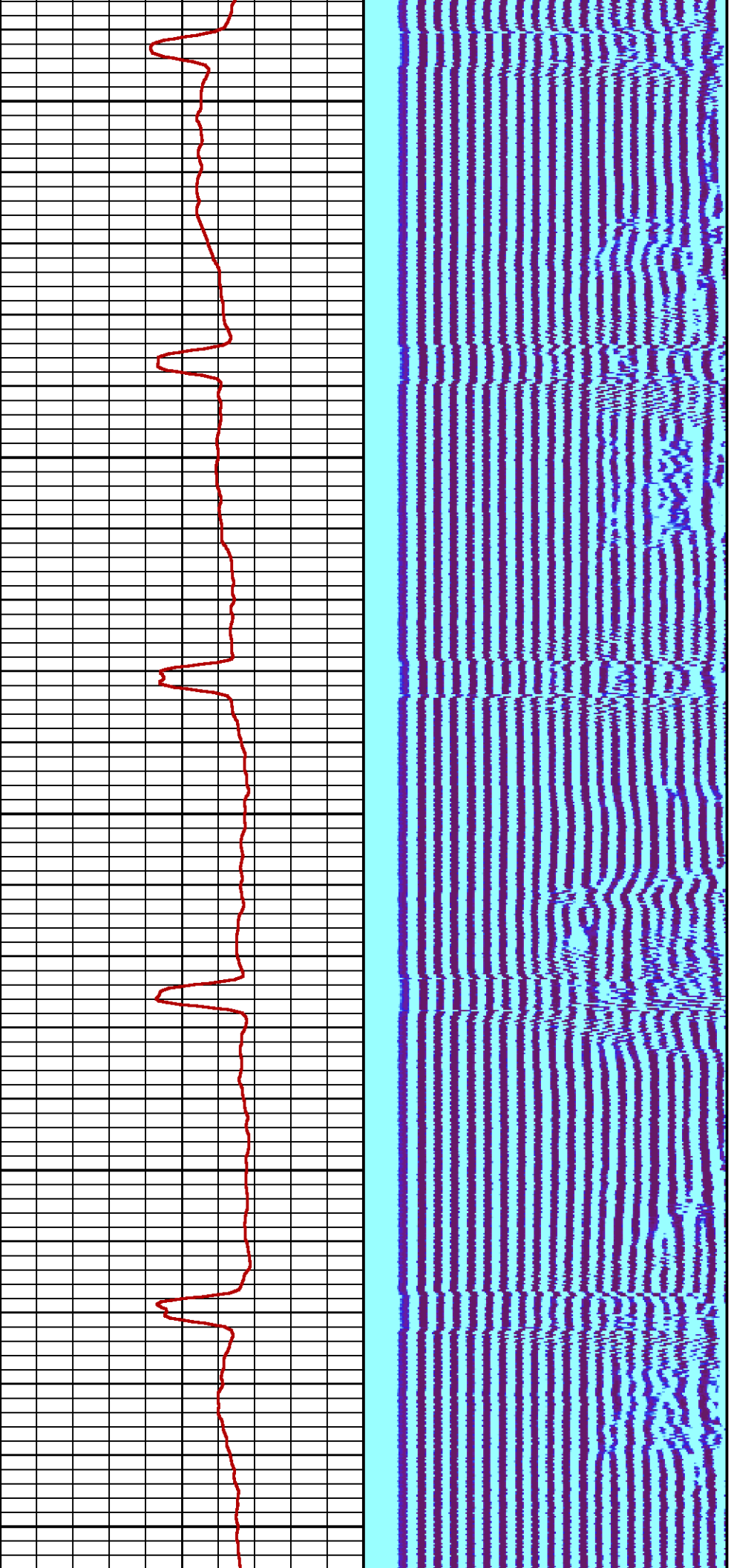
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Company : WPX ENERGY
Well : FEDERAL RGU 444-23-198
Field : SULPHUR CREEK
File Interval : 8.75 - 12599 Feet
OCT : n012g

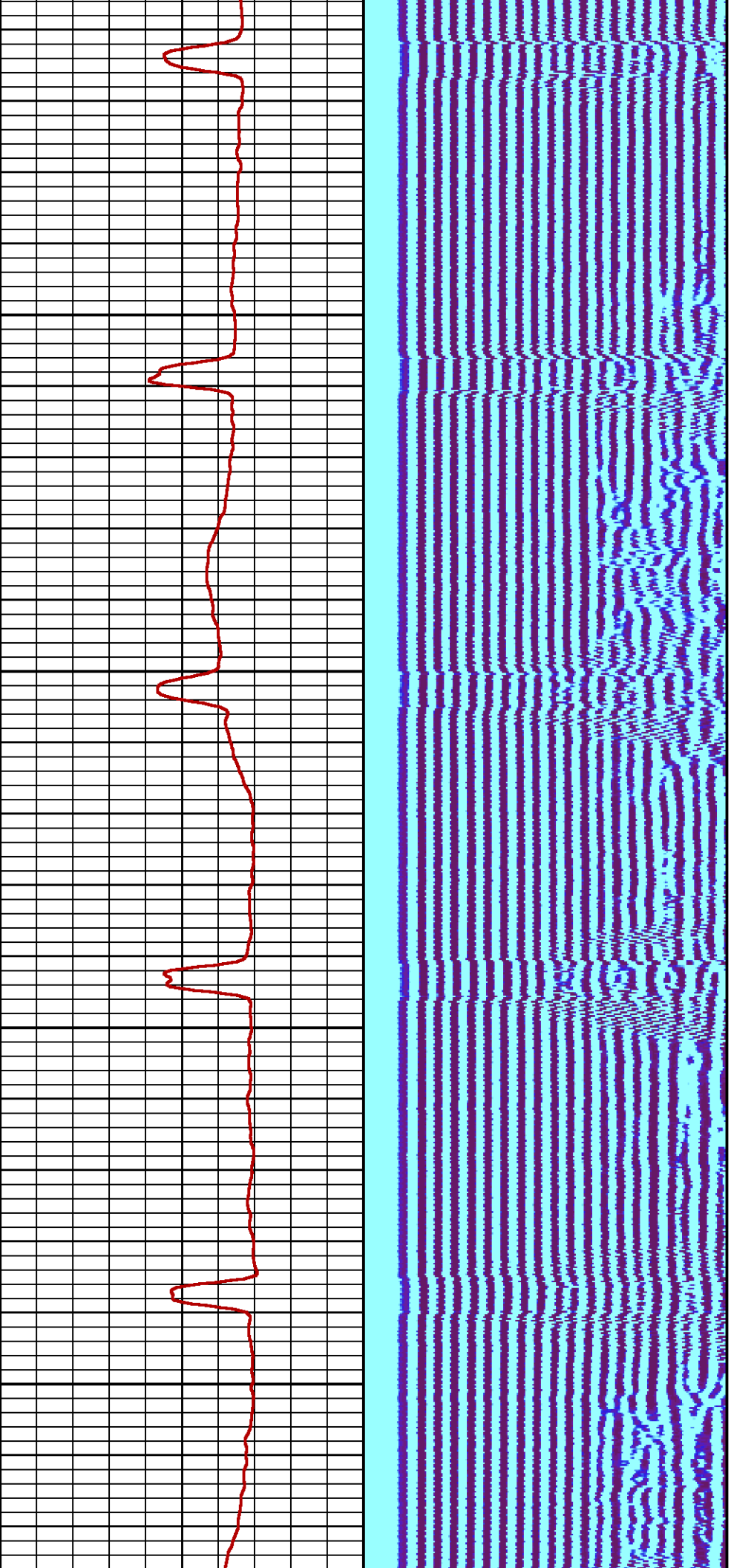






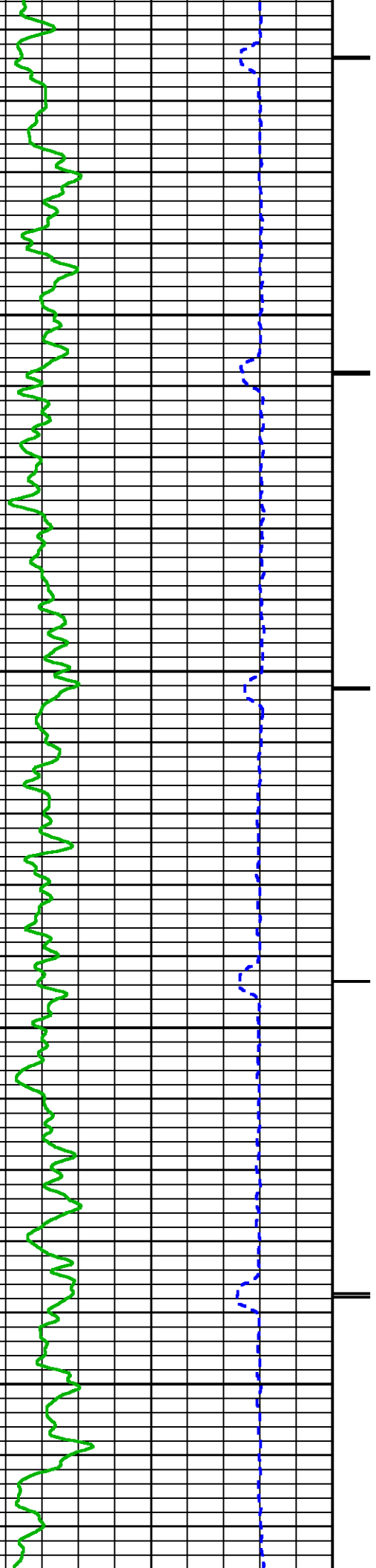


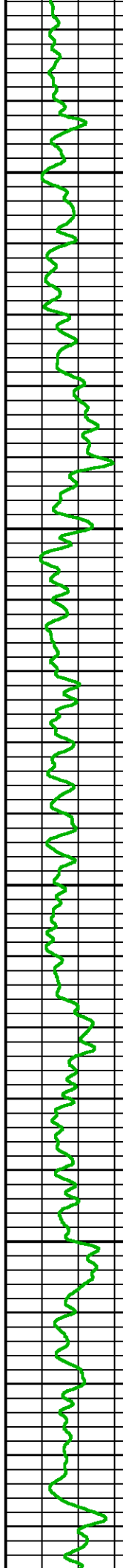
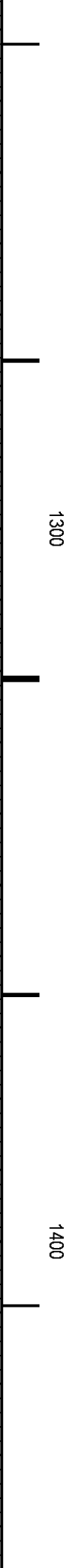
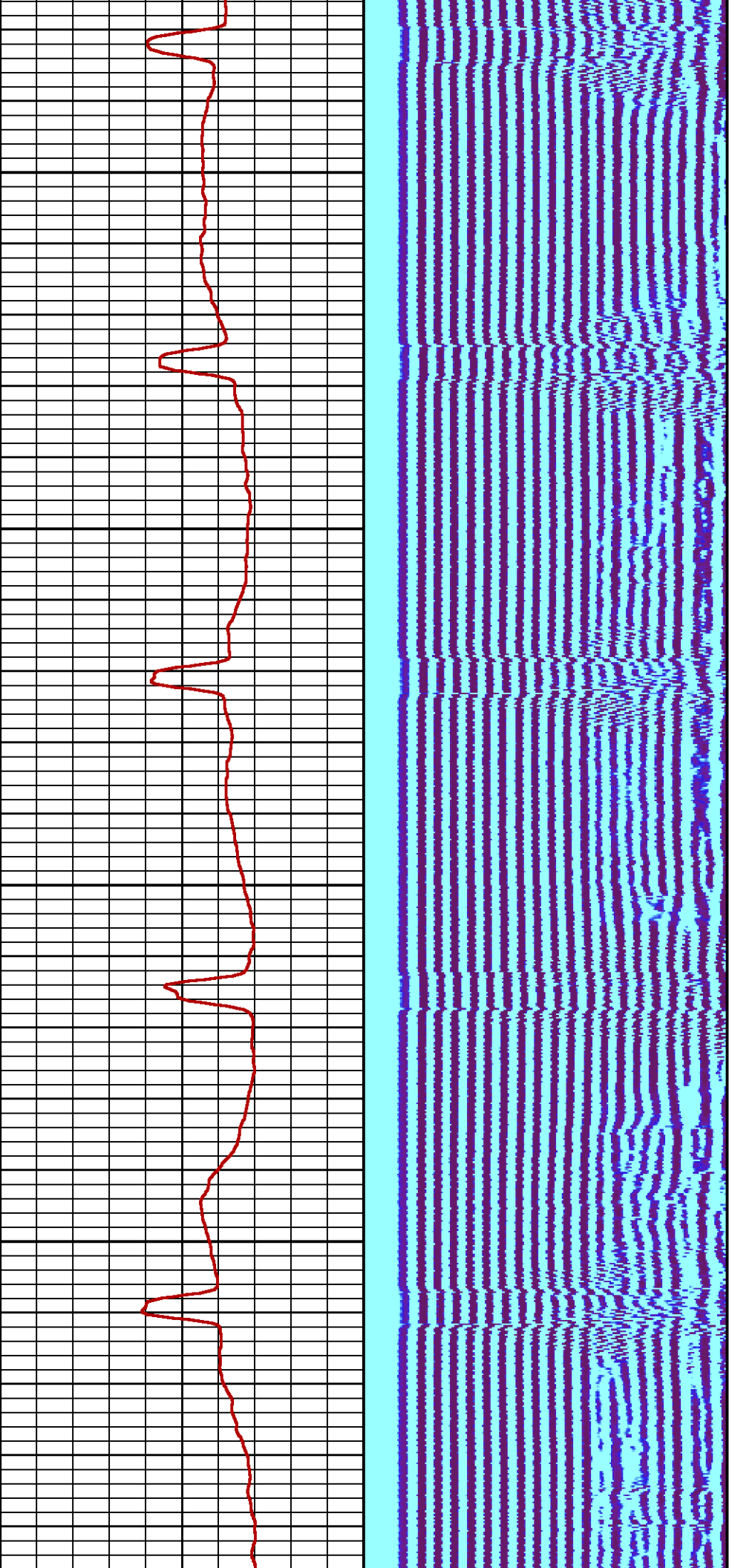


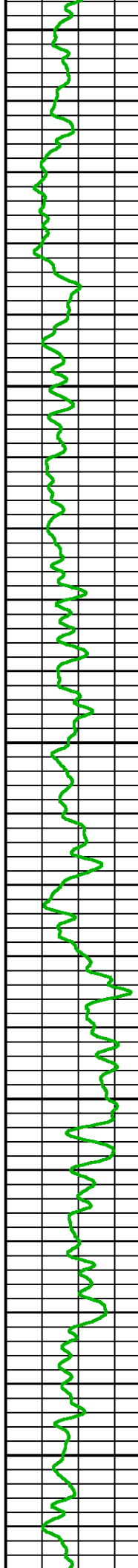
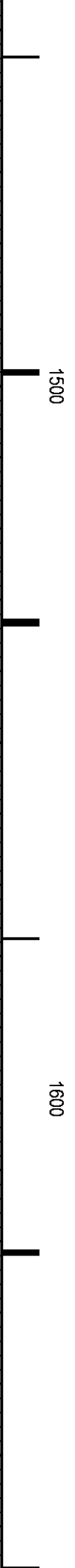
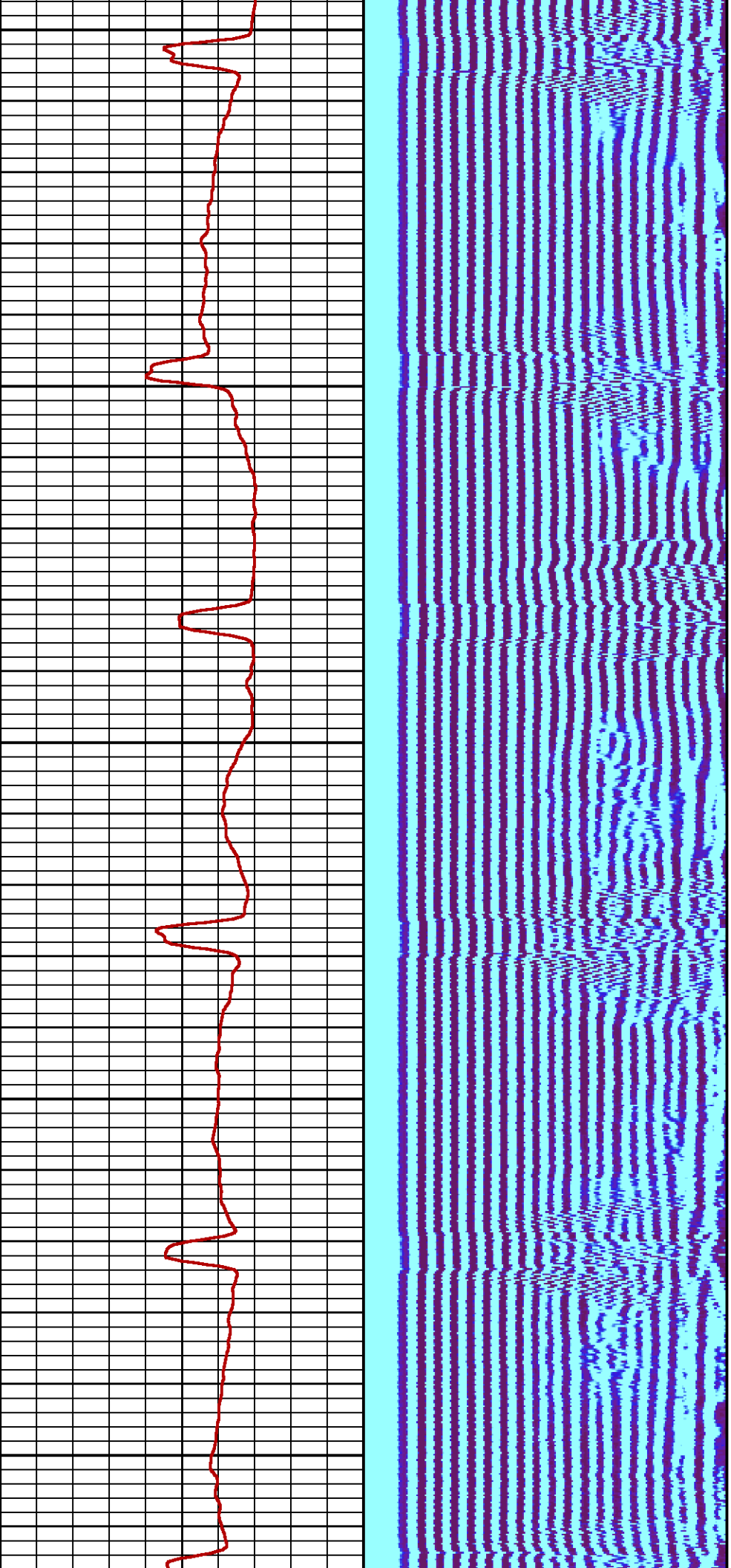


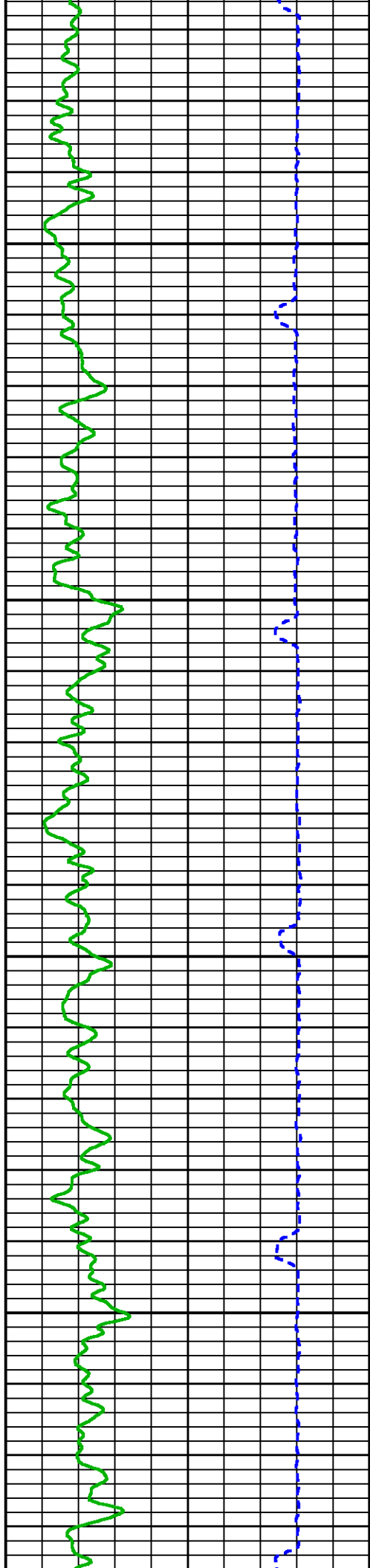
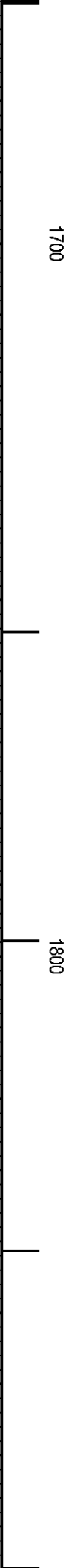
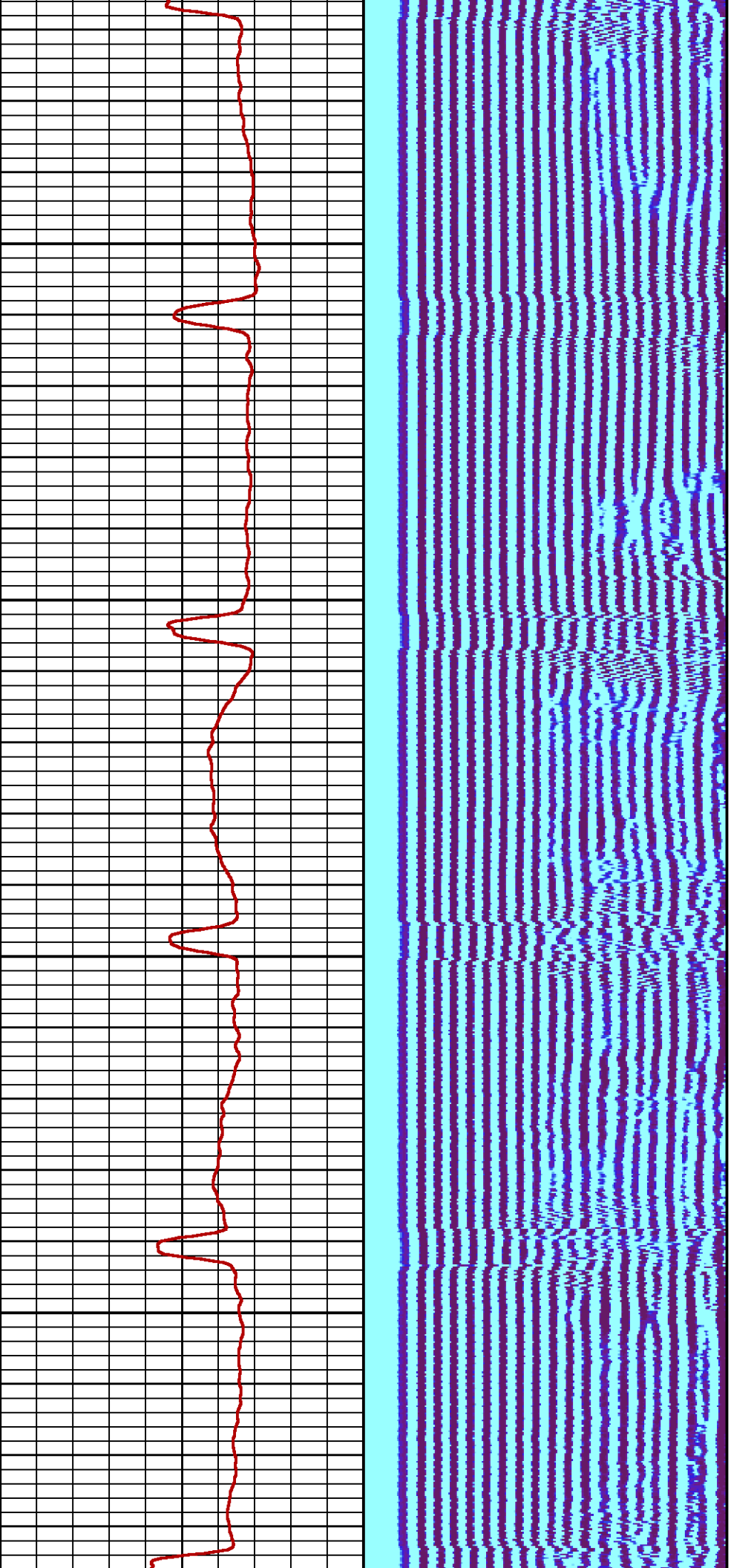
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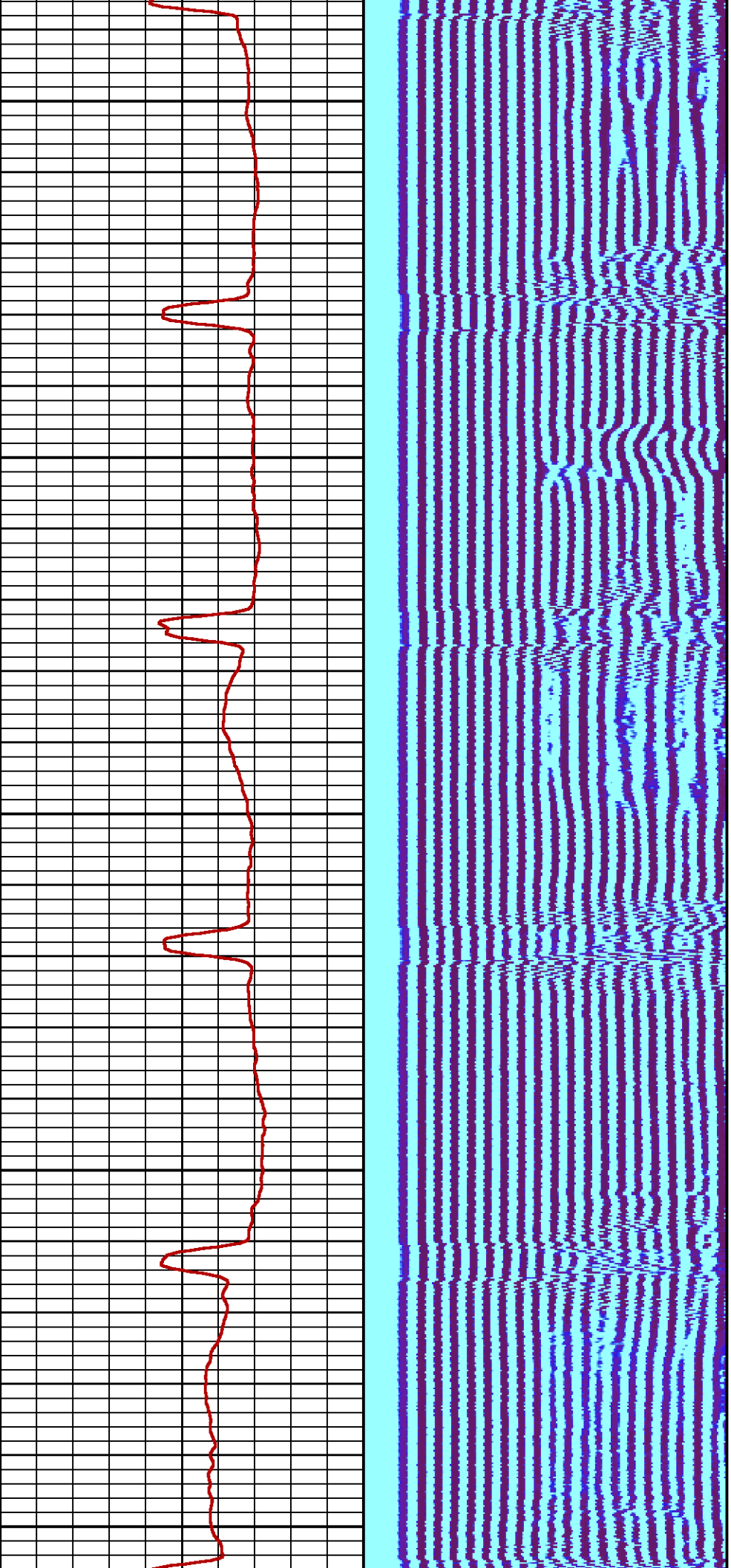
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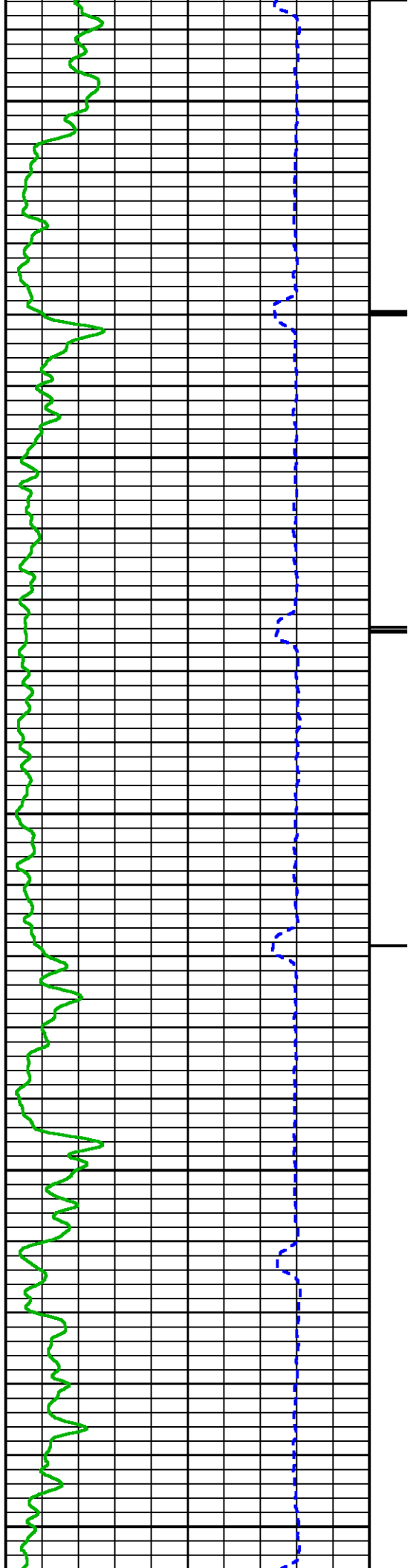


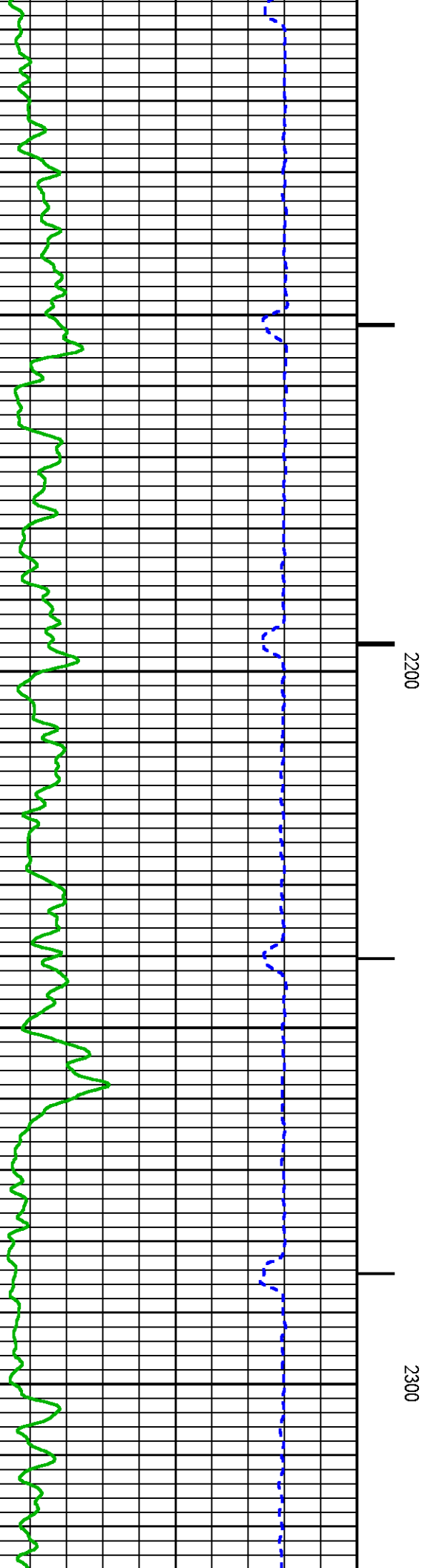
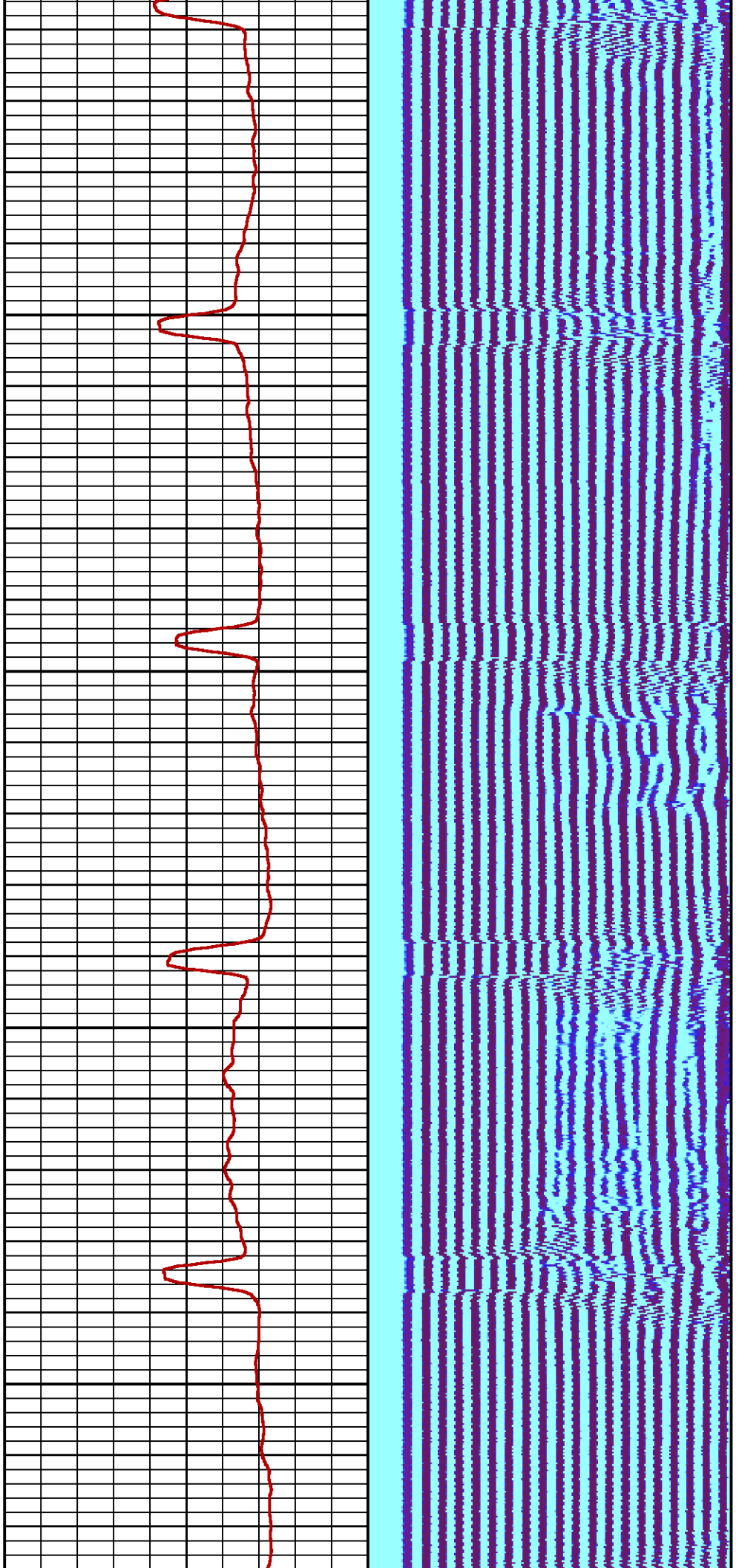


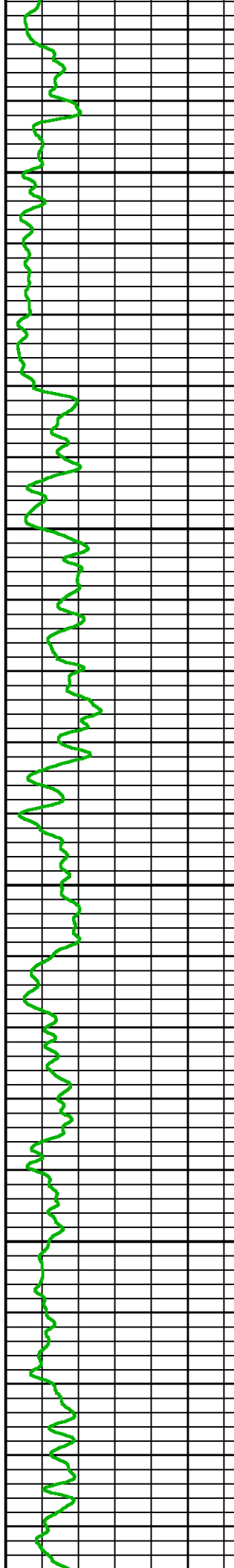
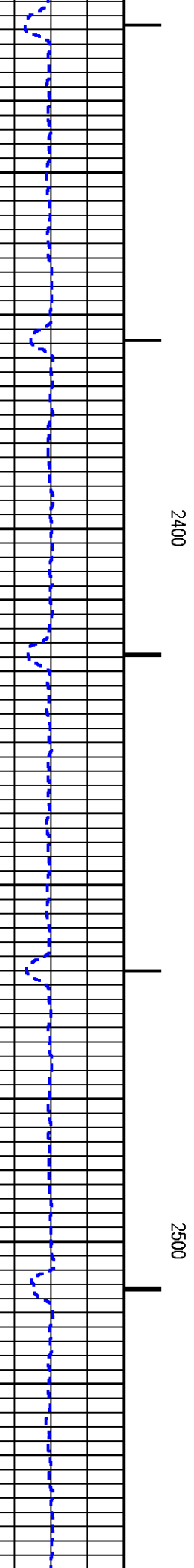
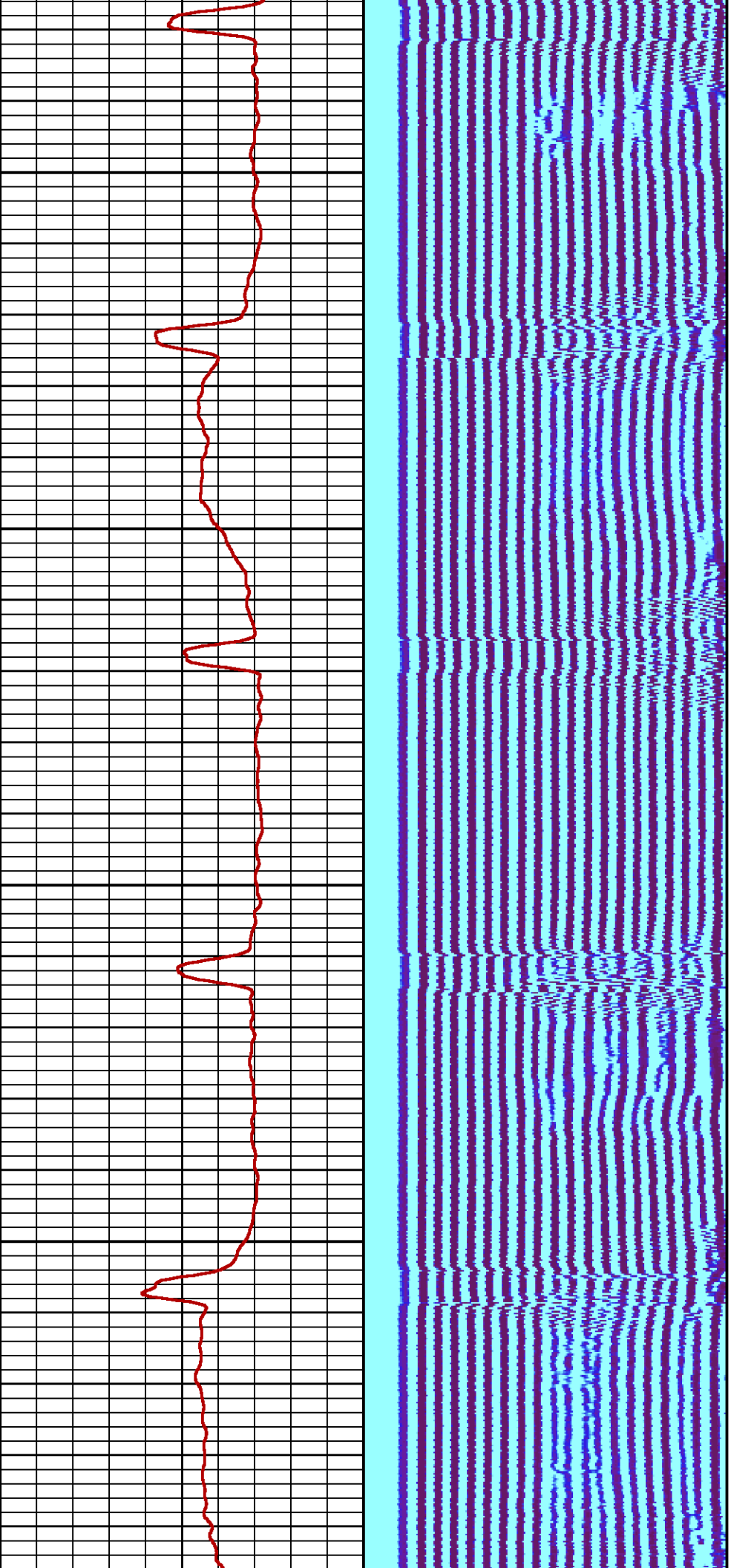
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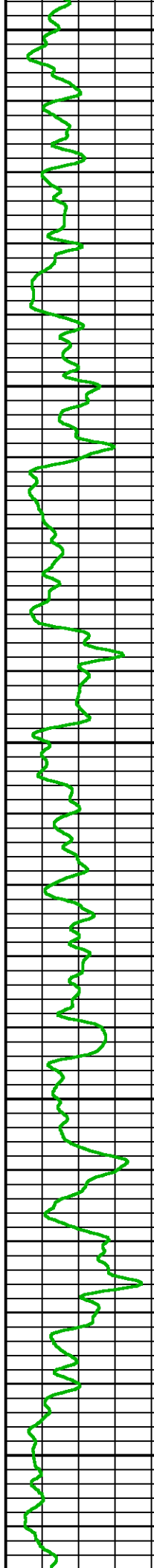
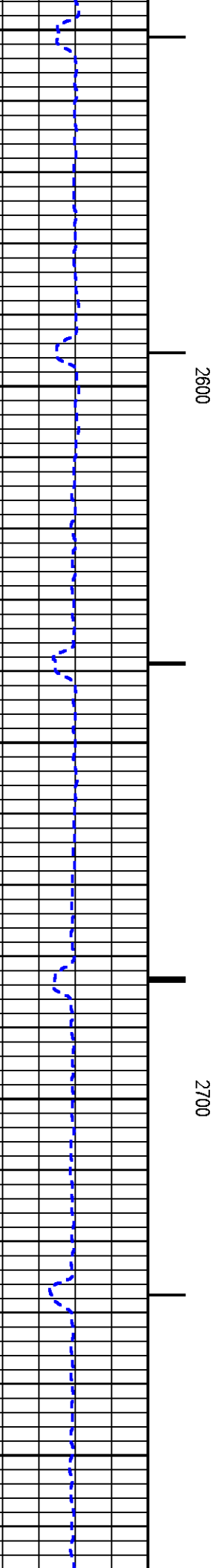
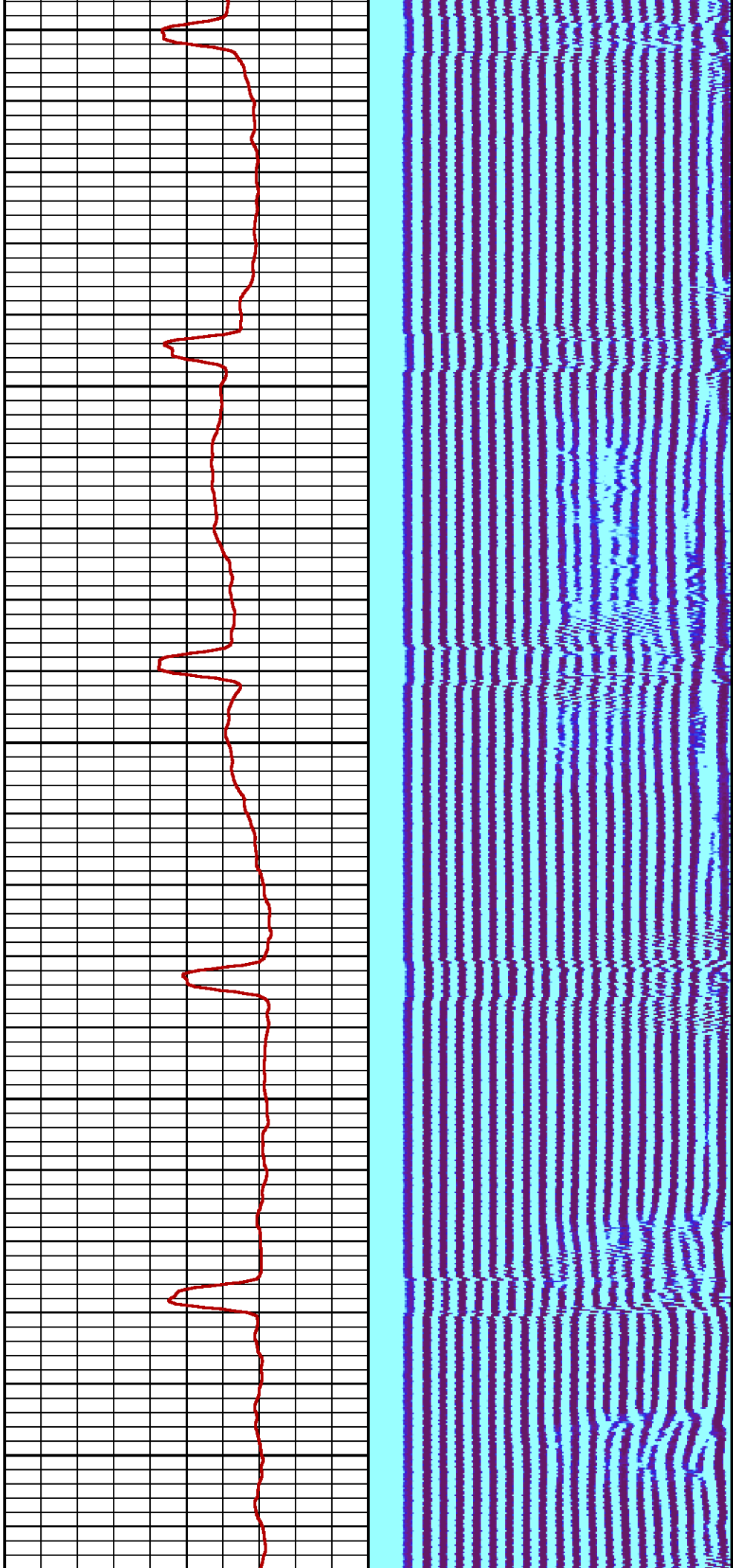
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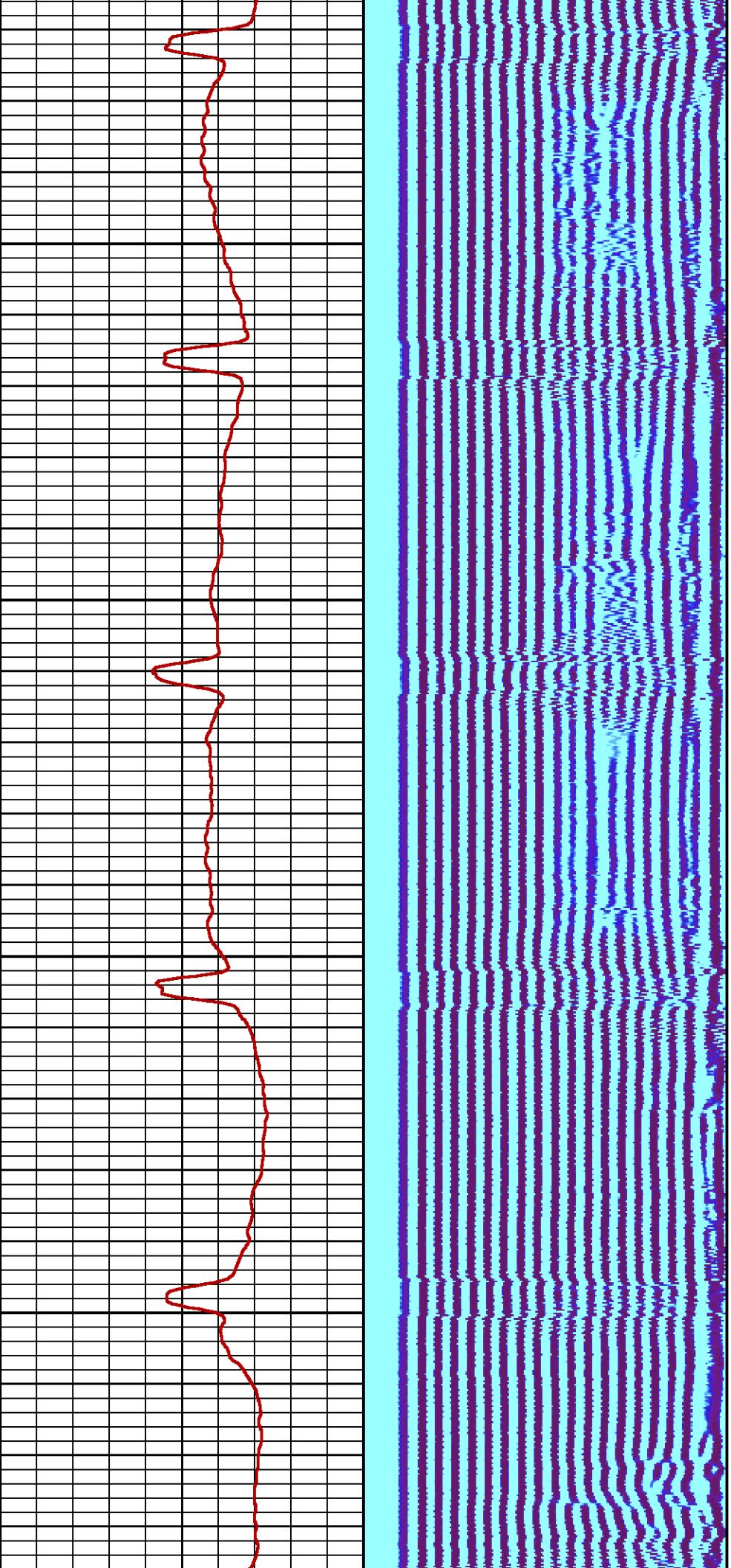
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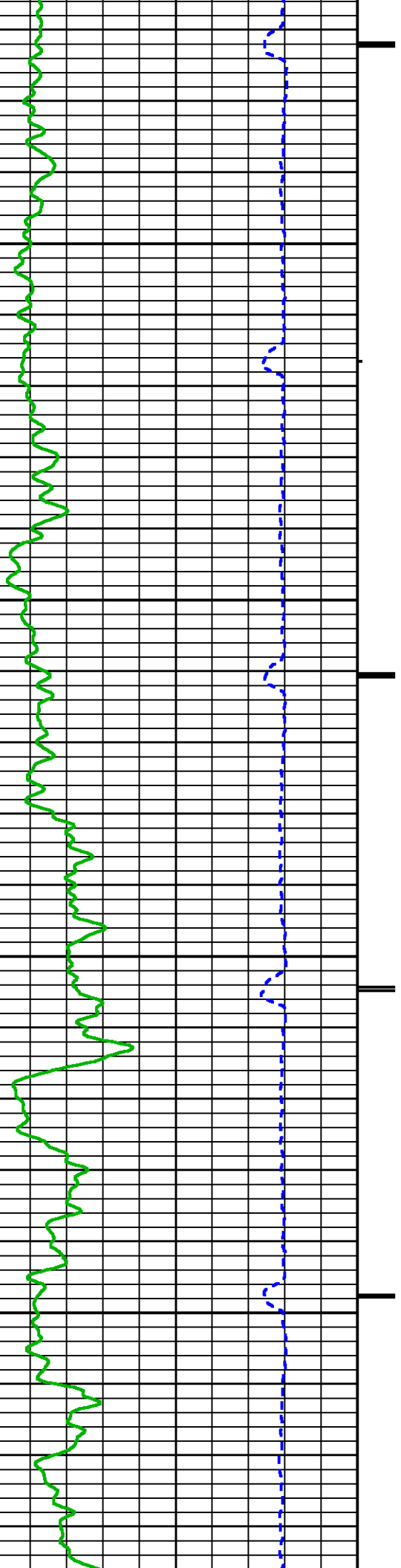


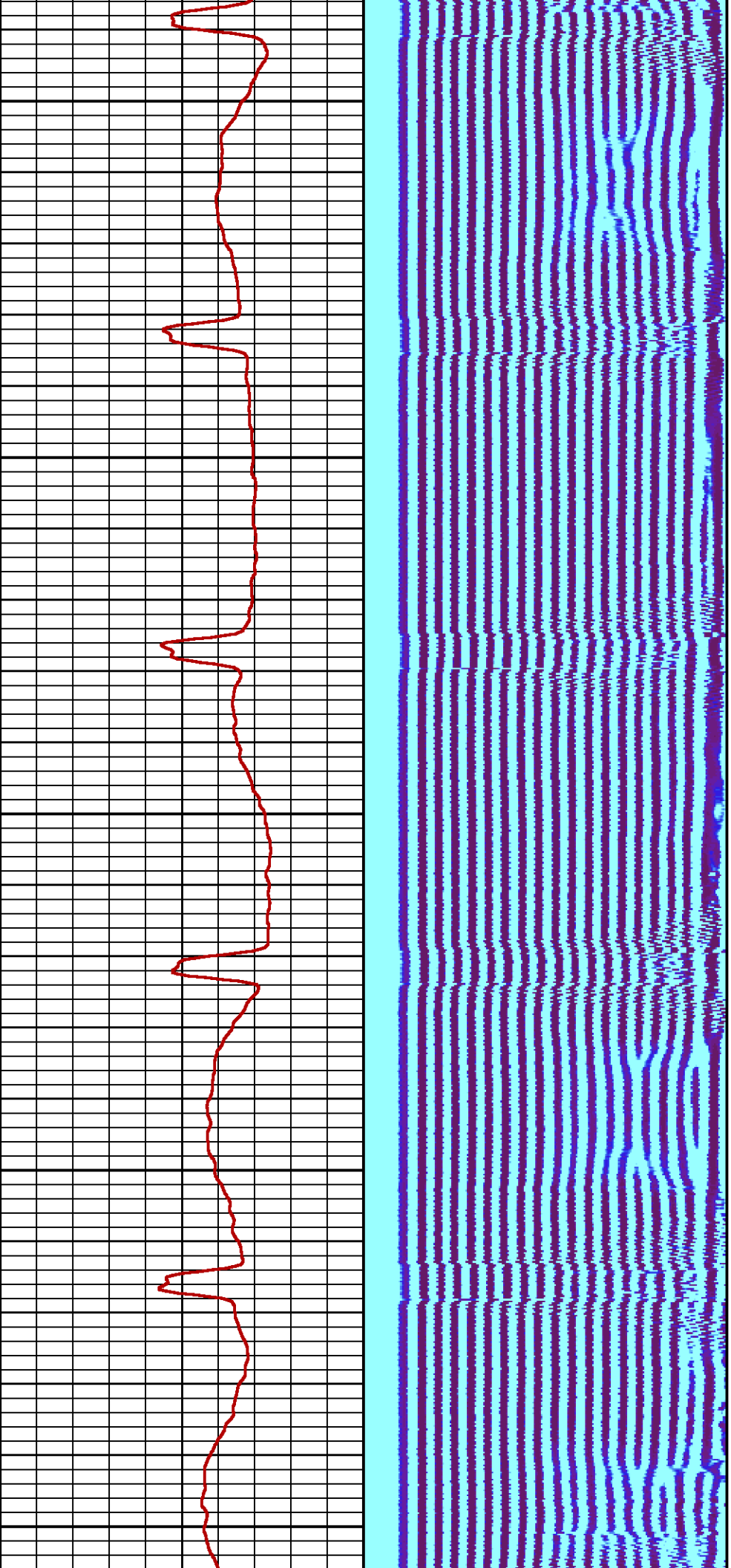




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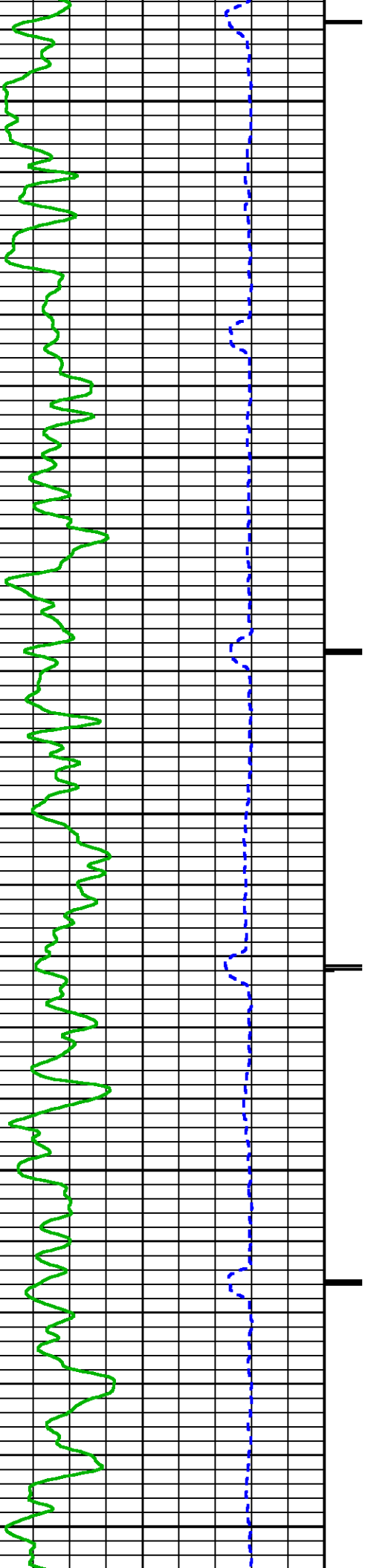


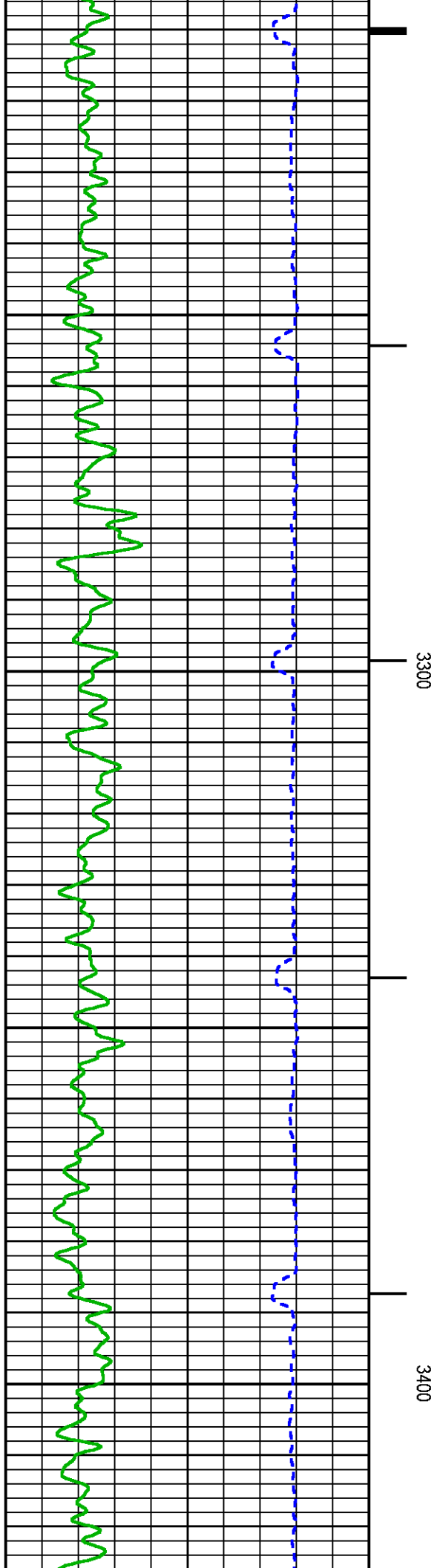
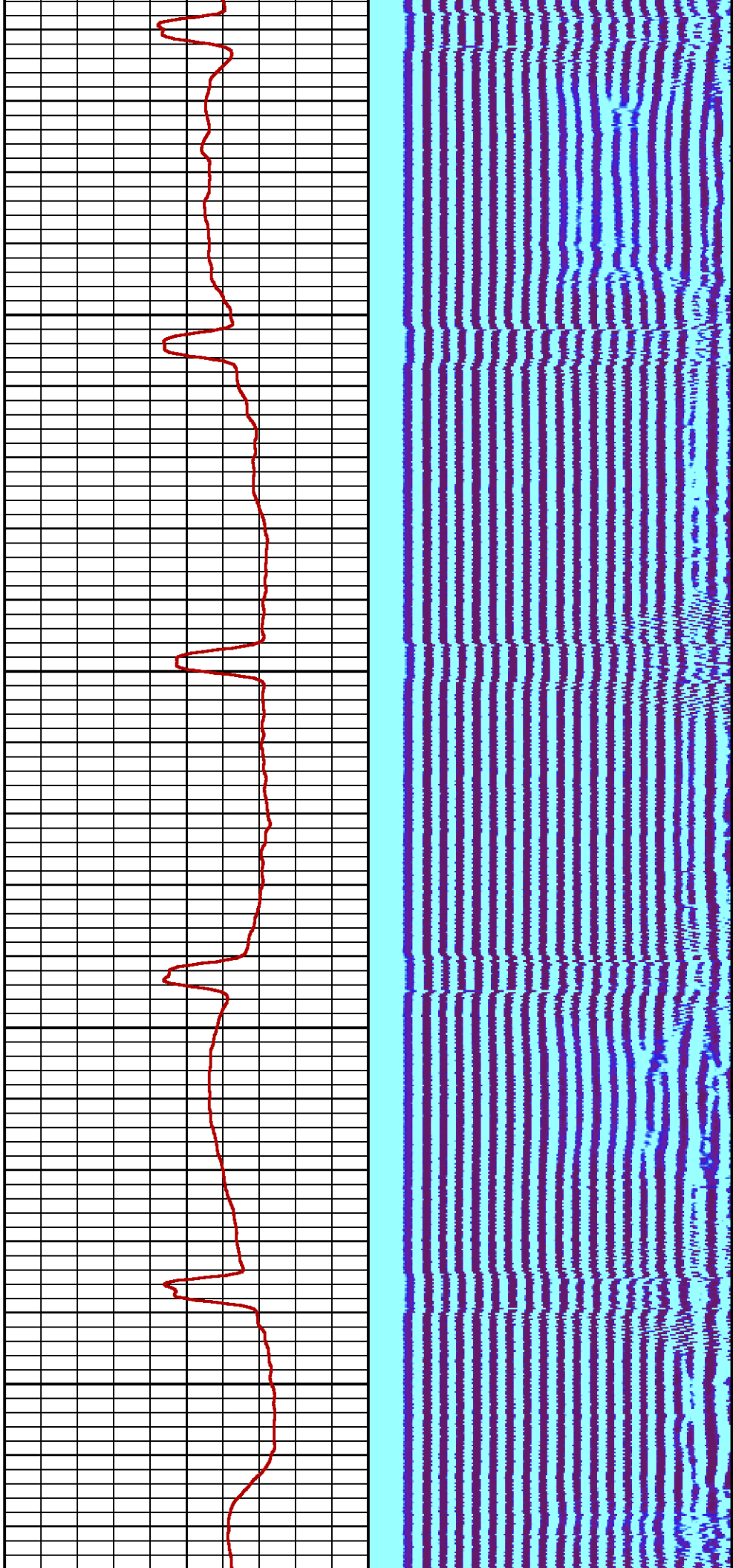


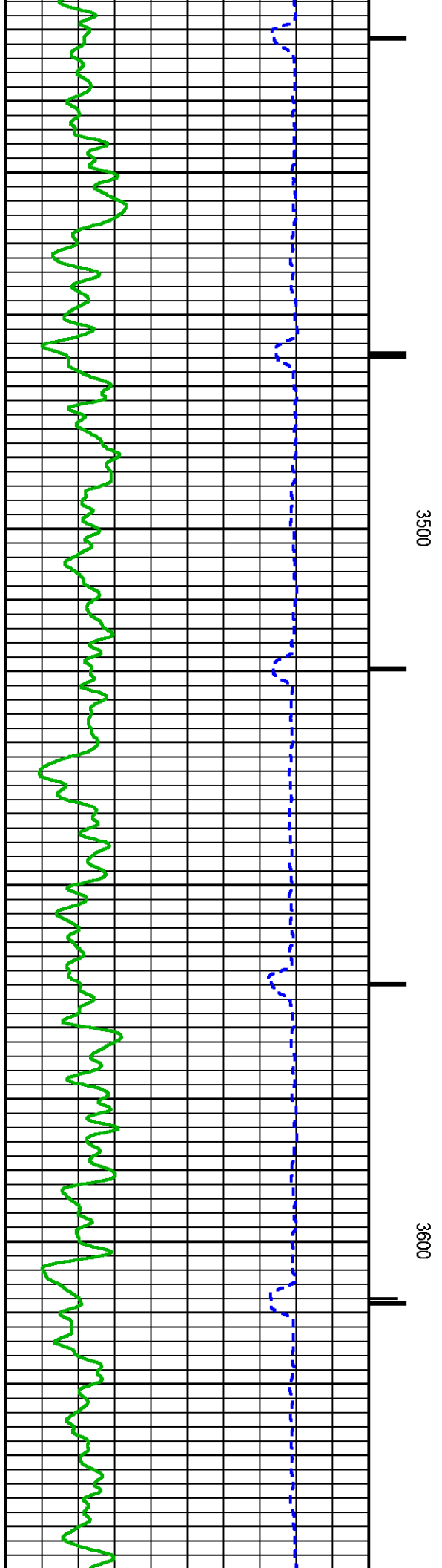
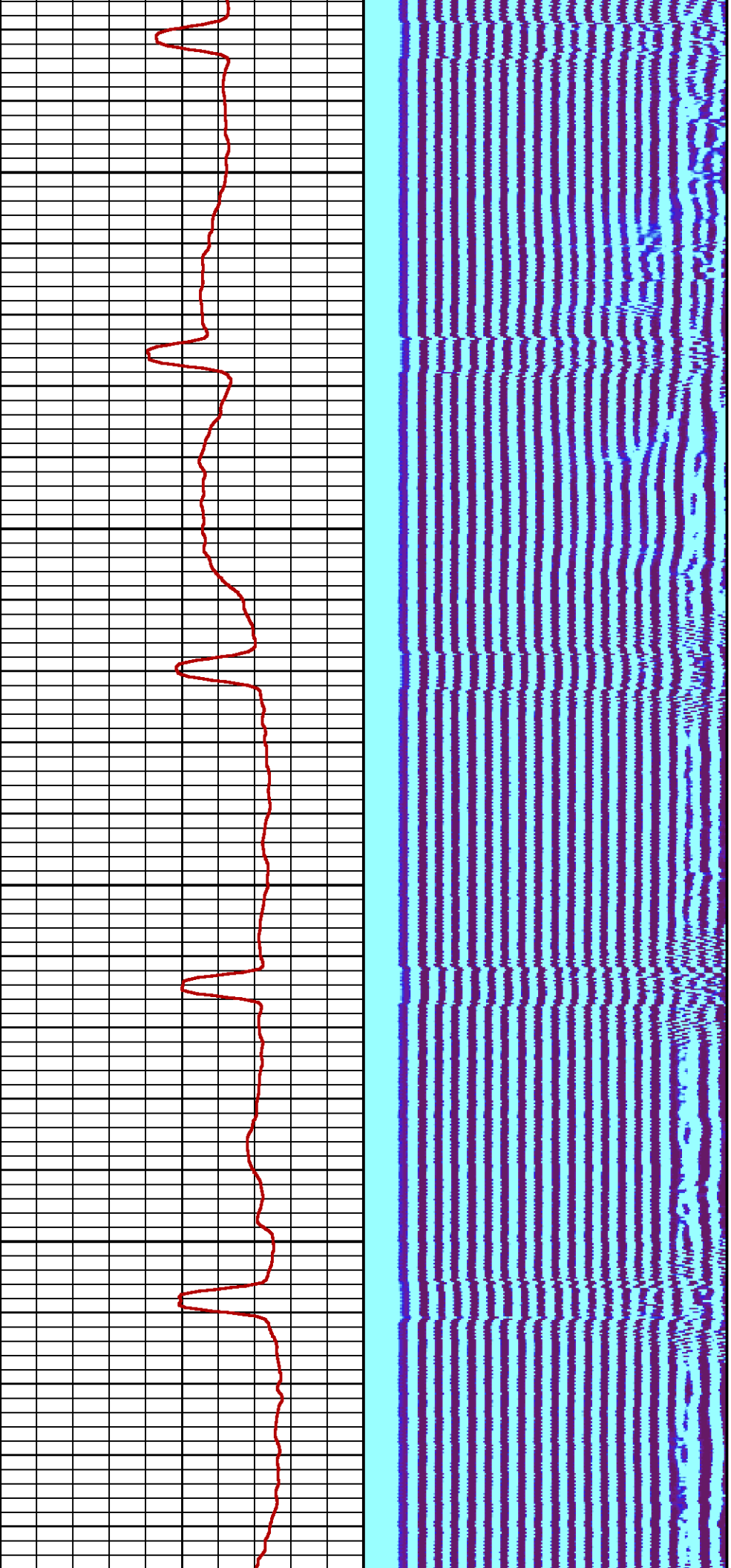
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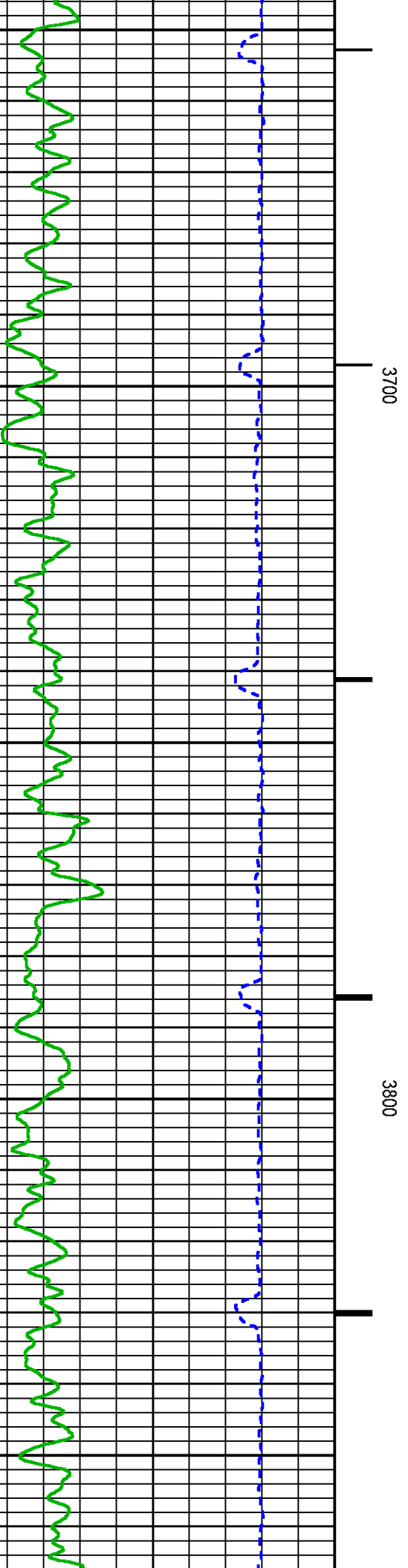
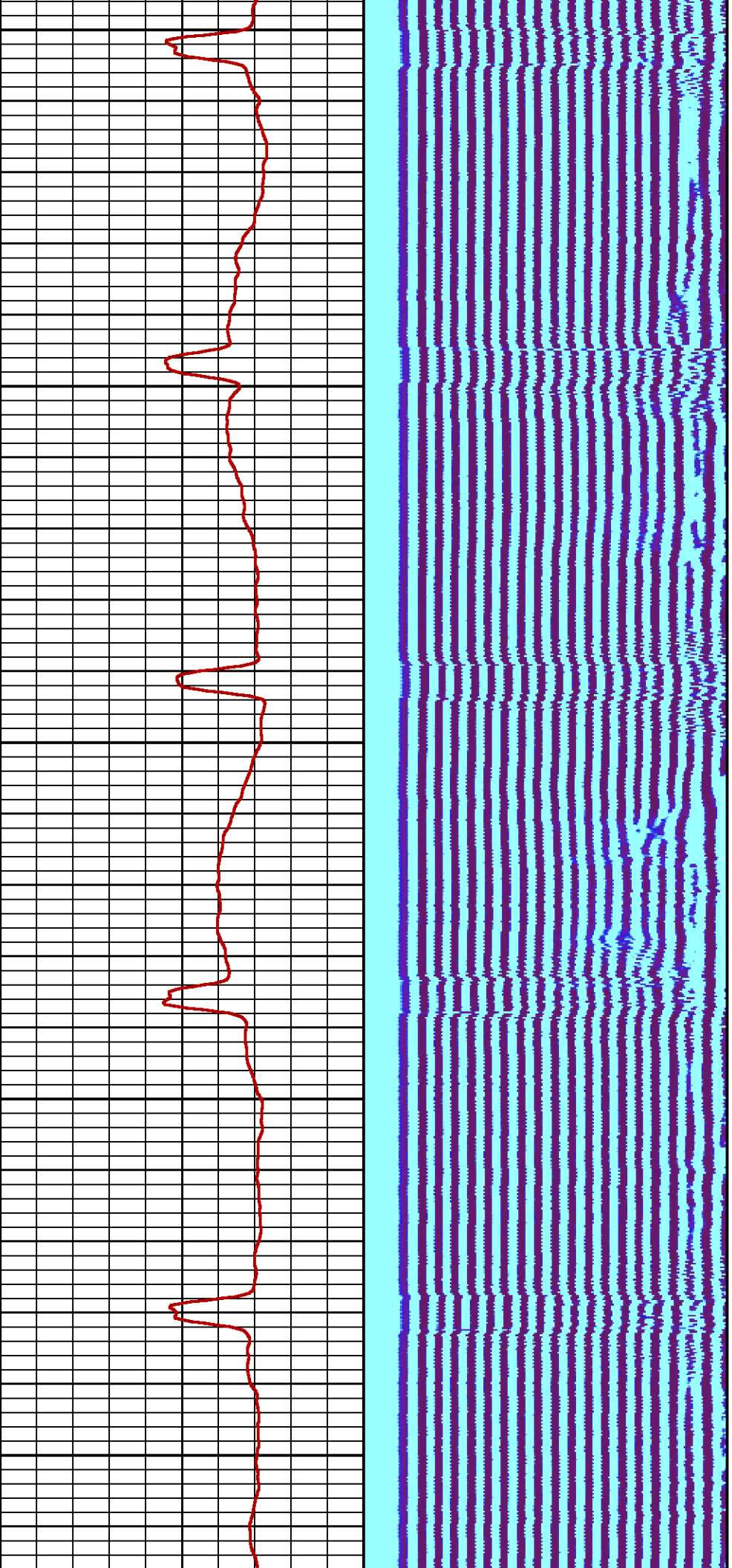
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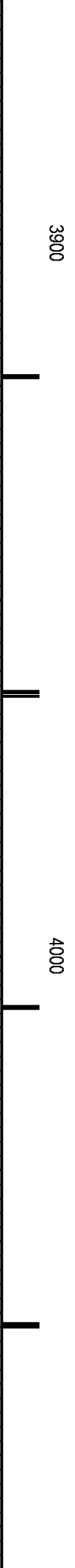
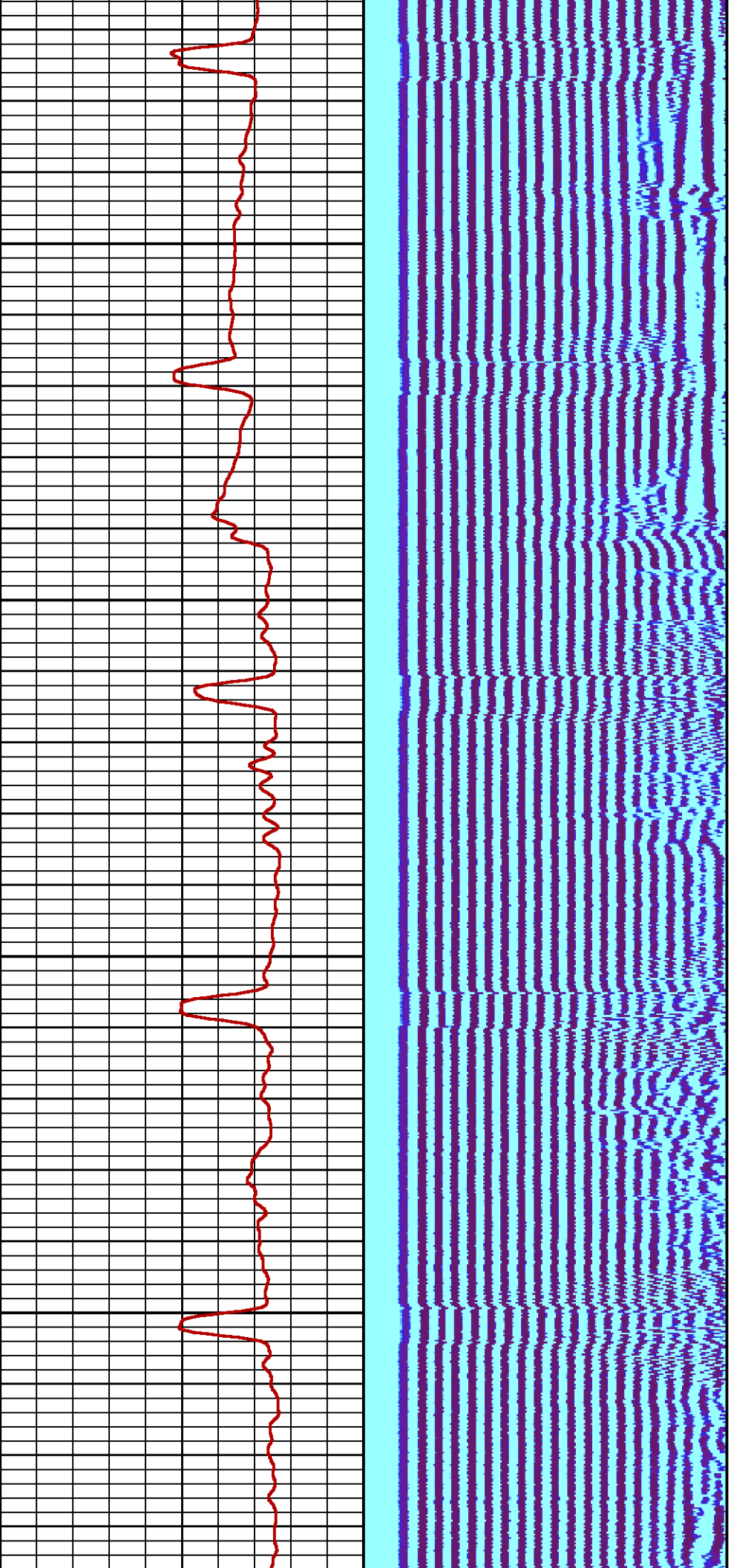
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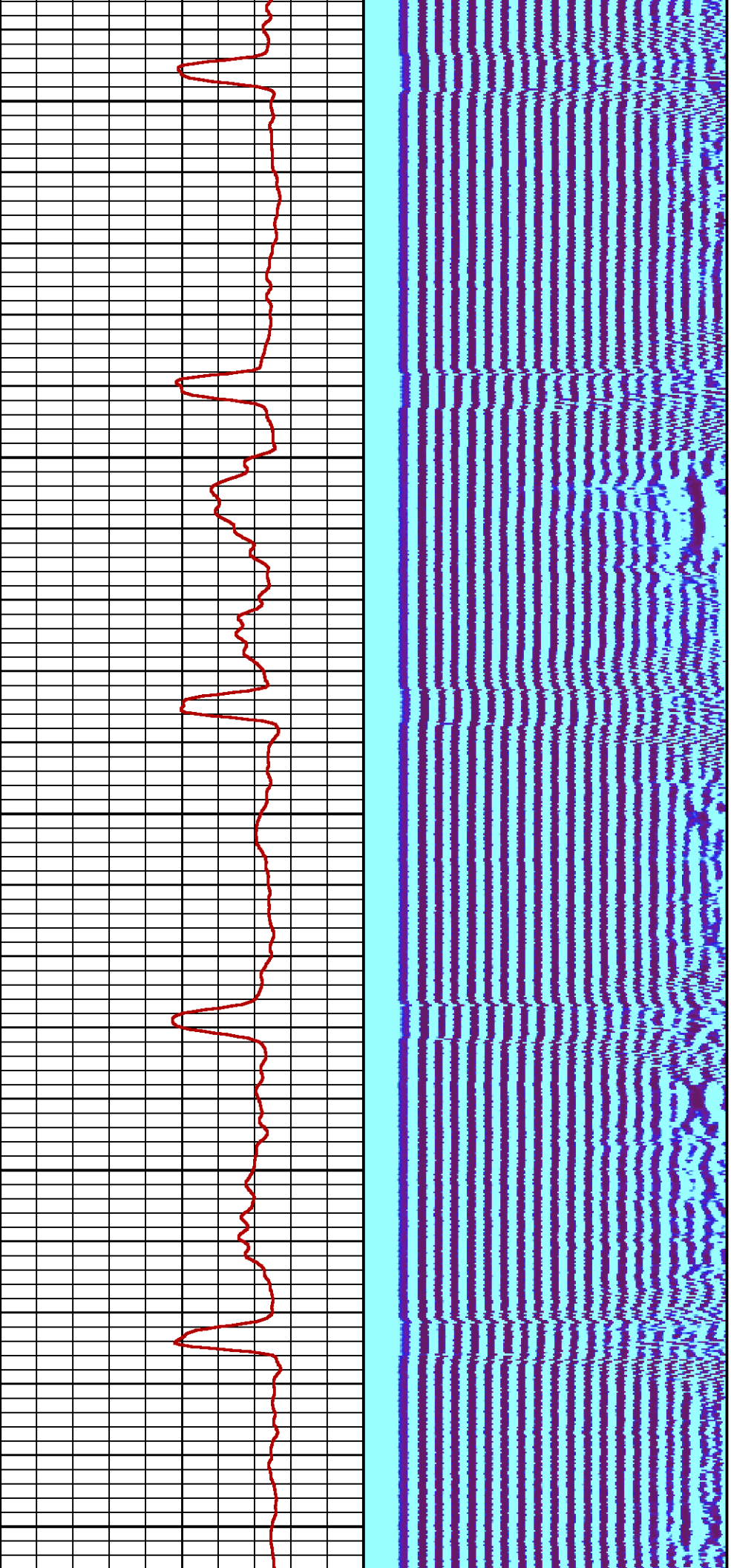






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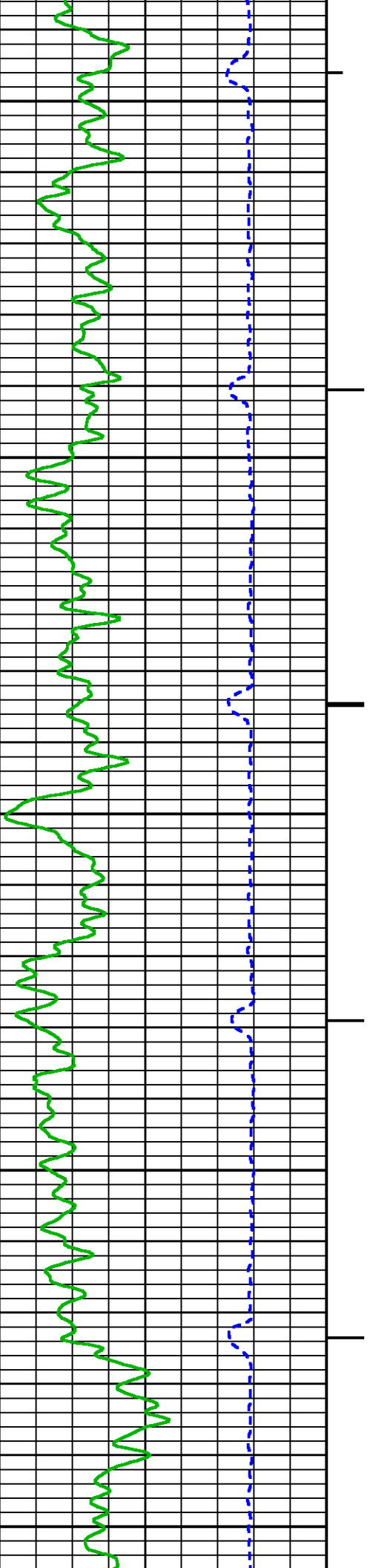
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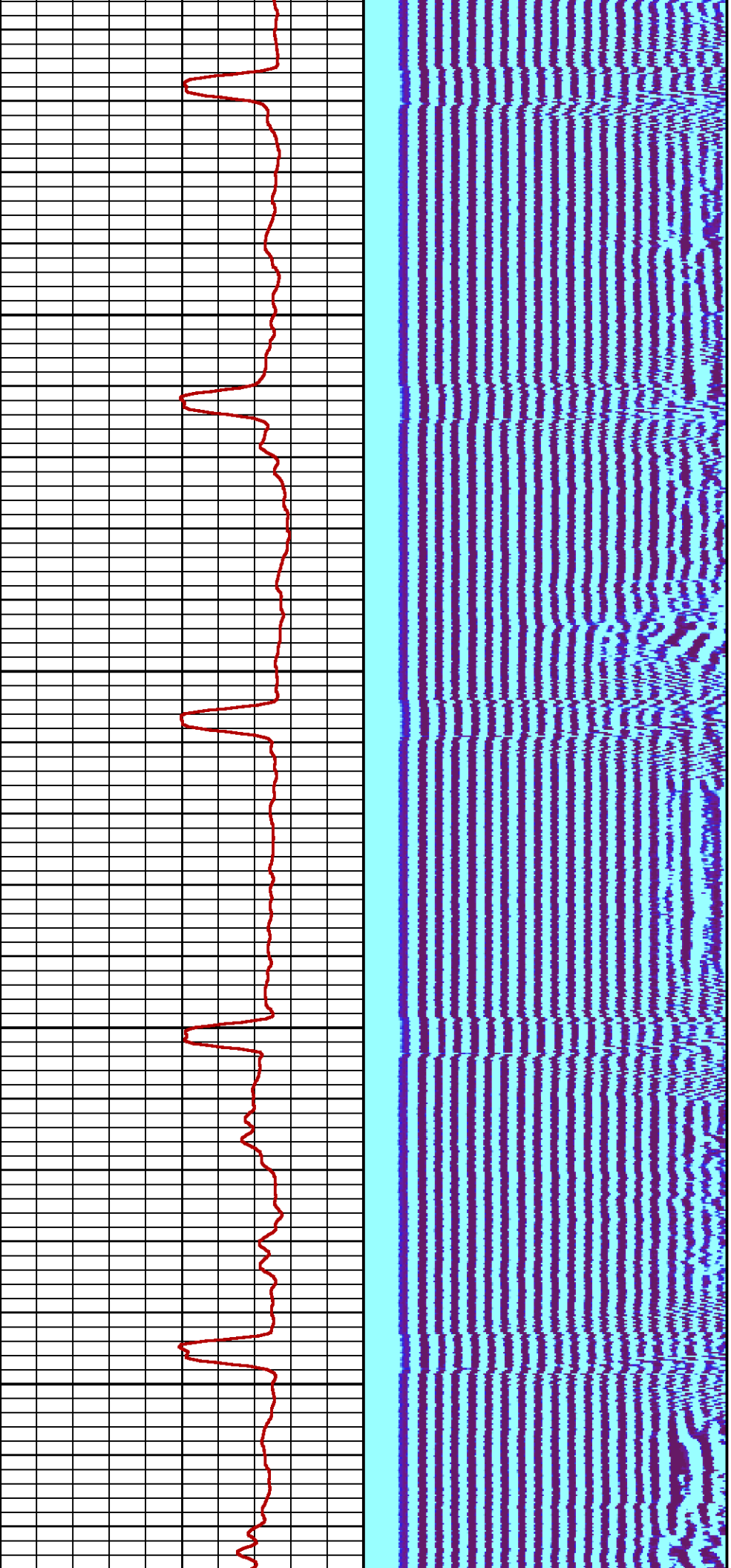


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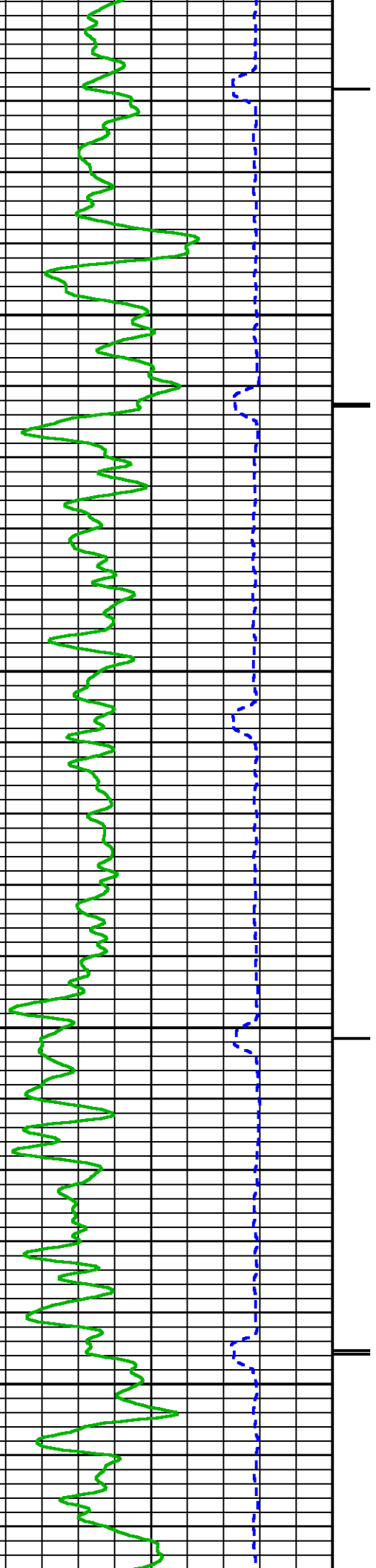
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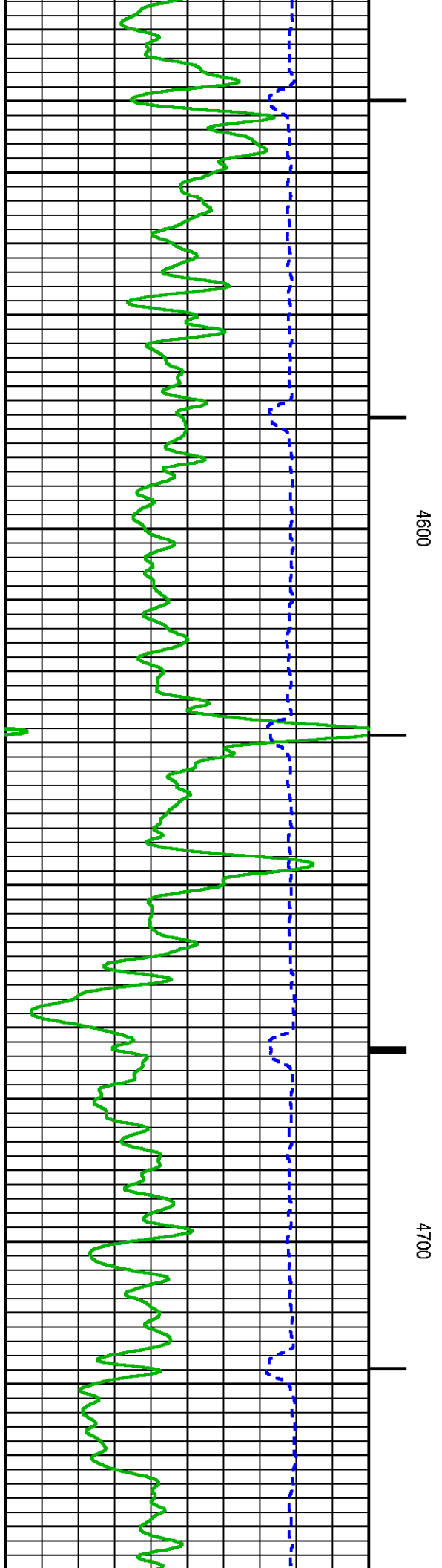
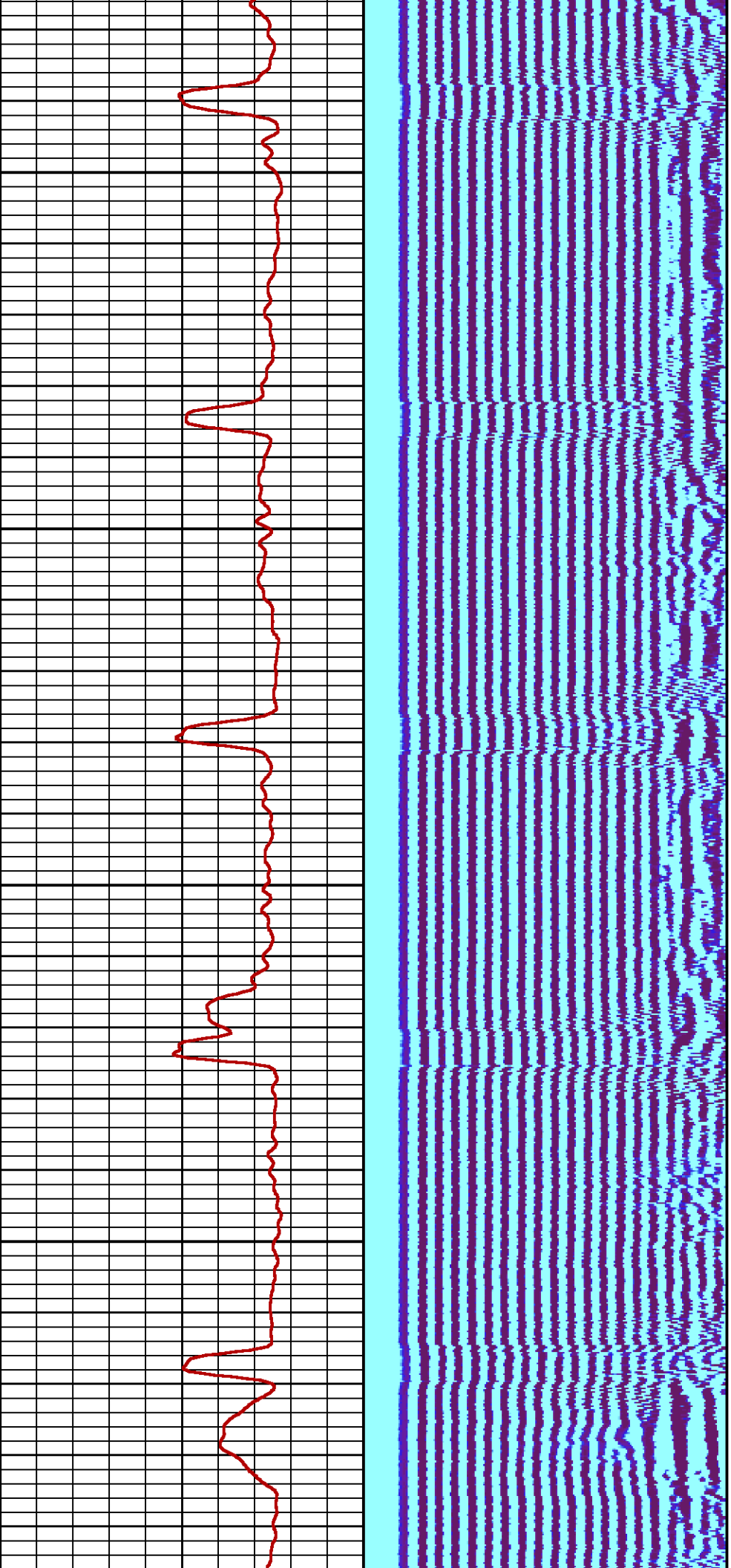


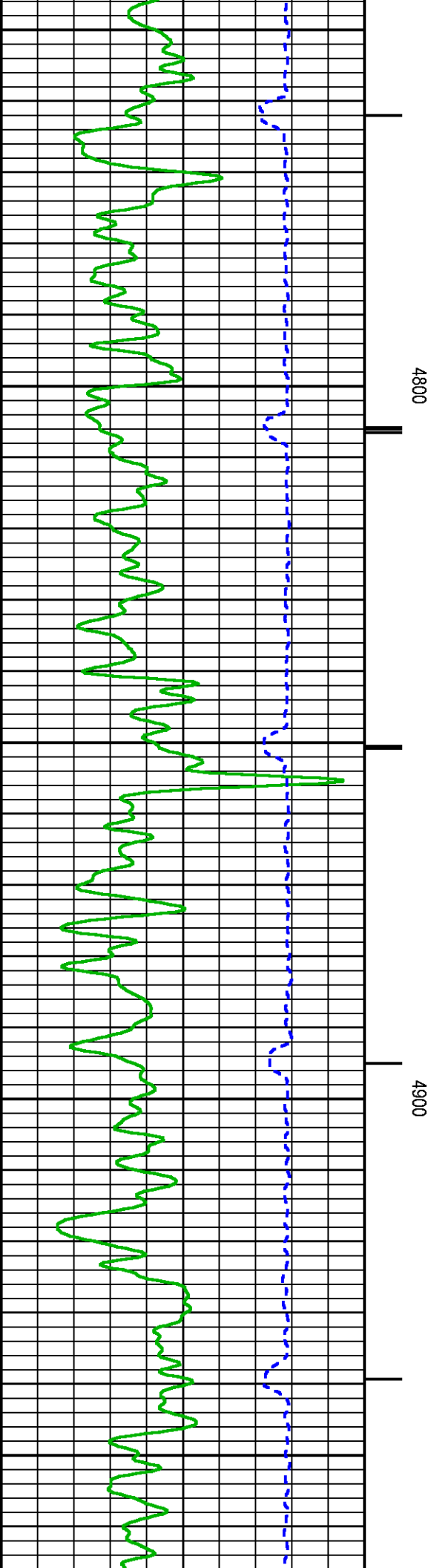
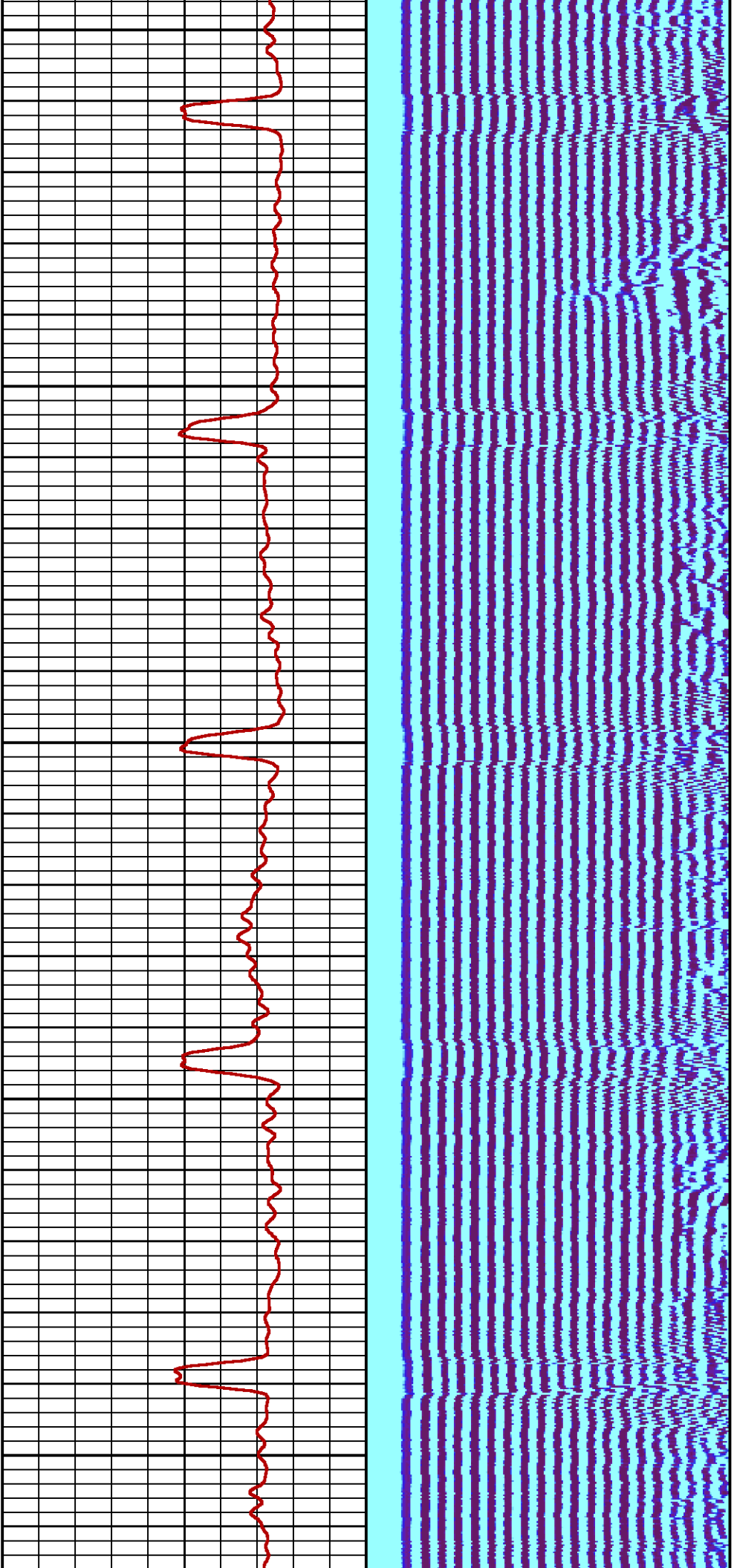


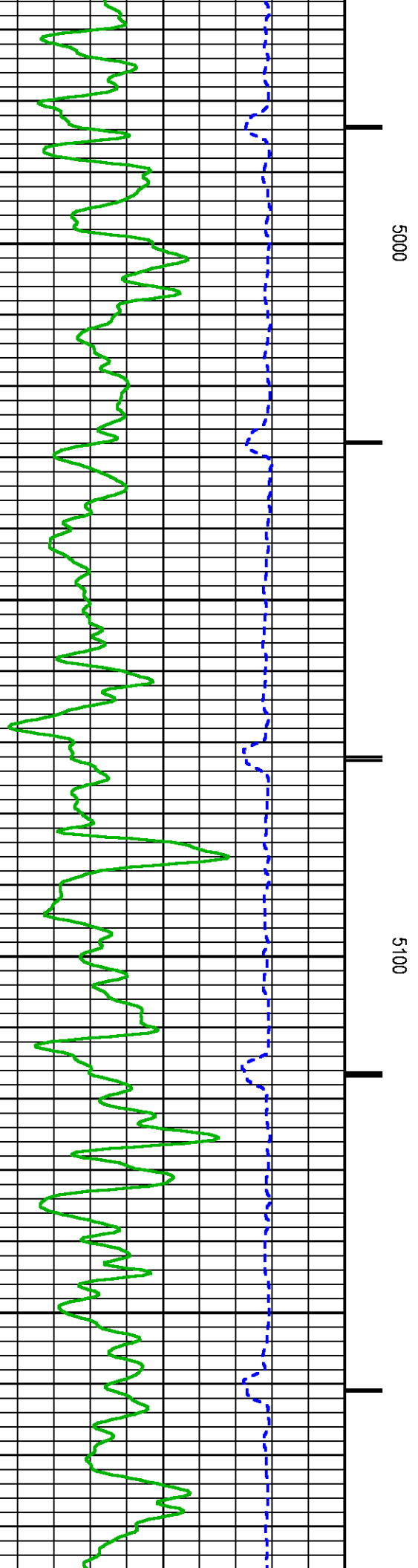
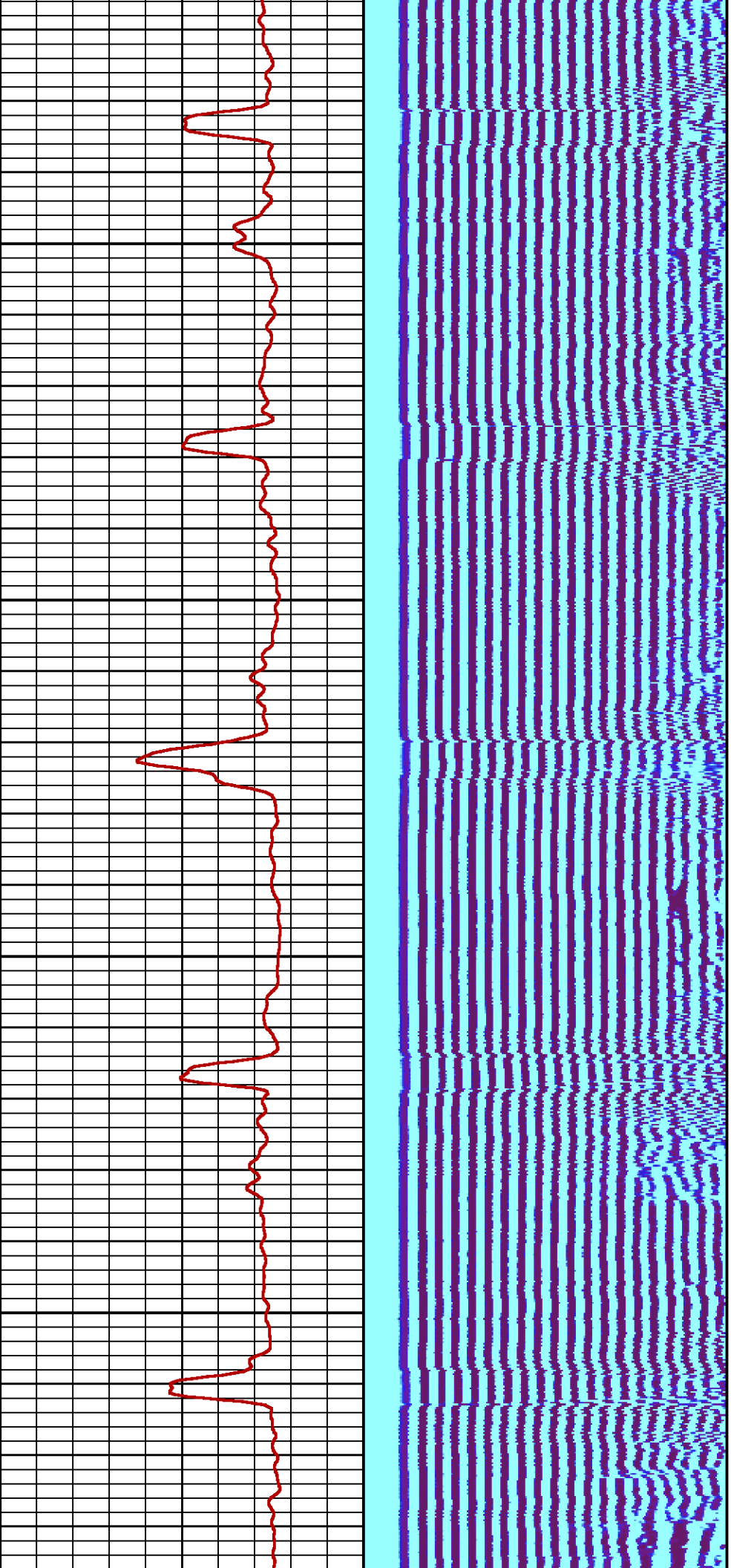
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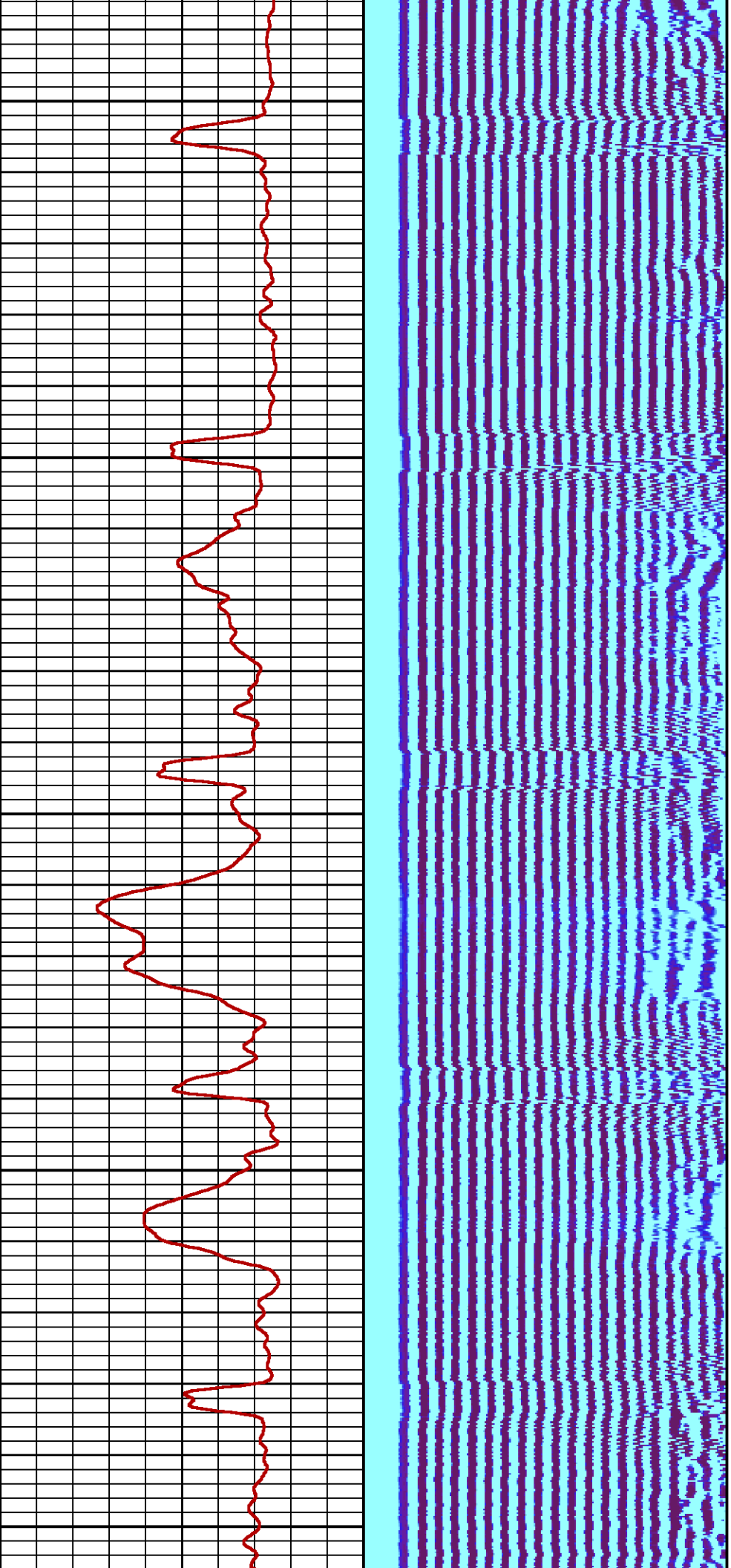
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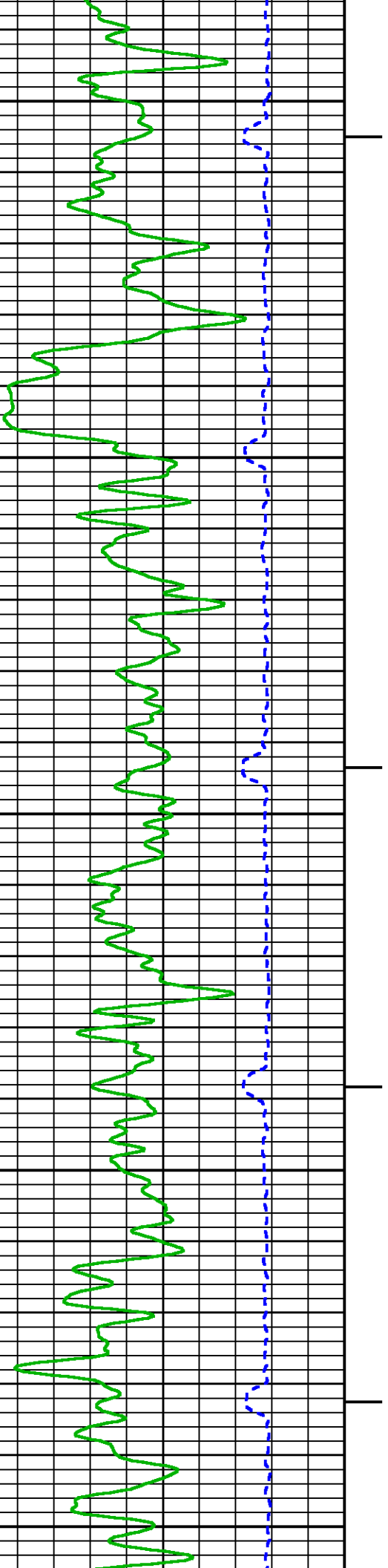


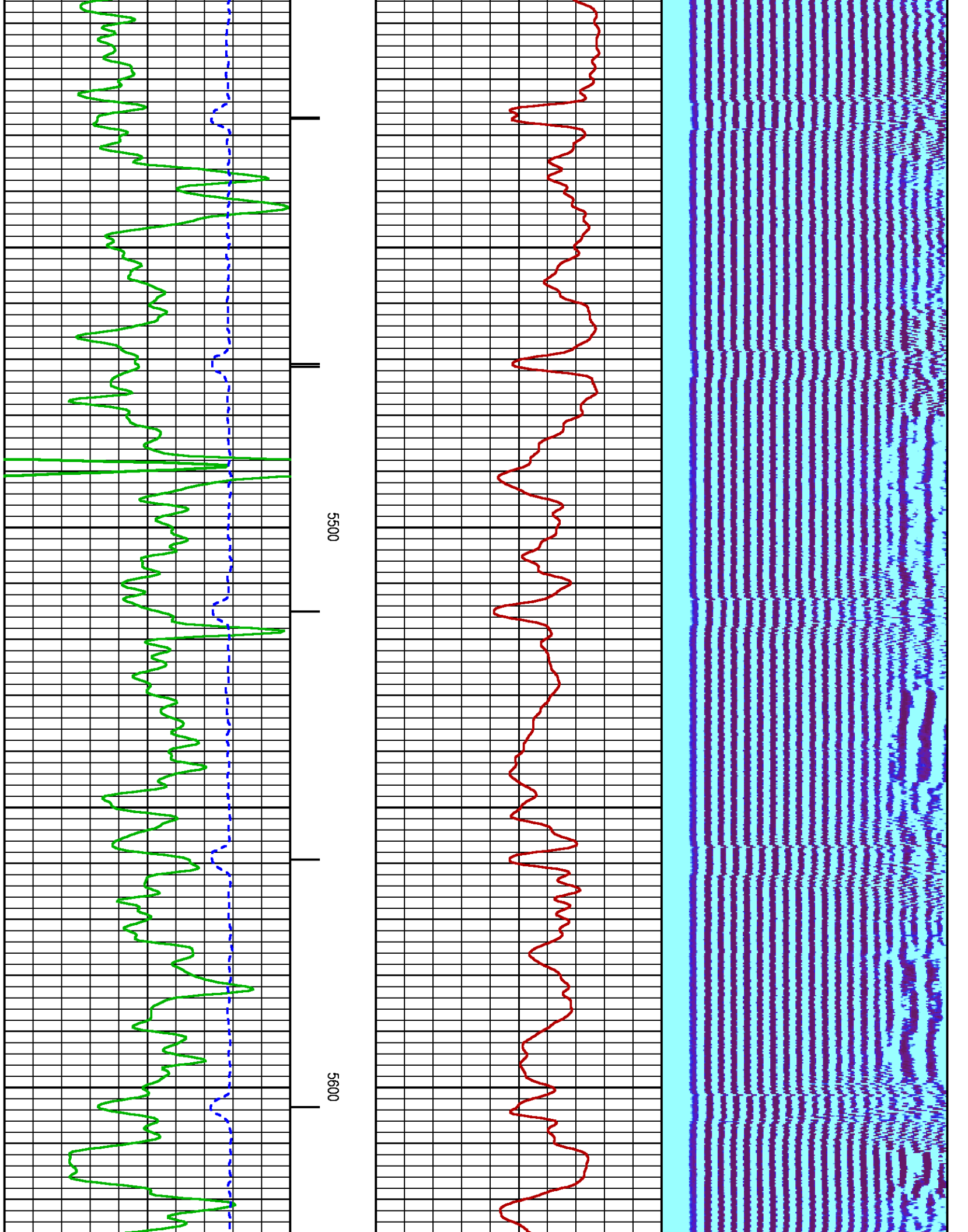


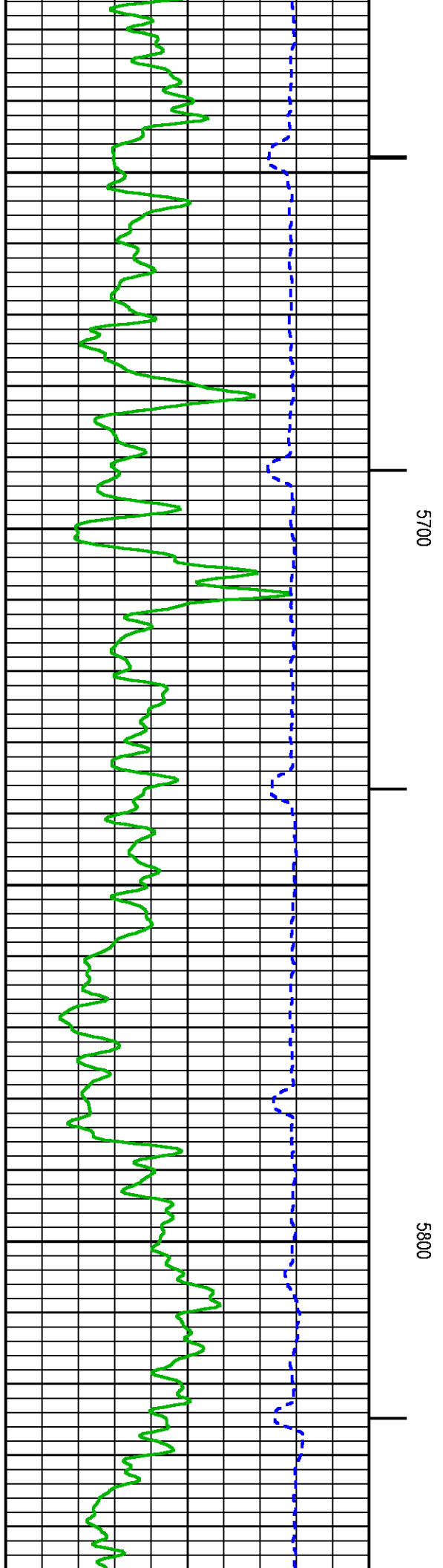
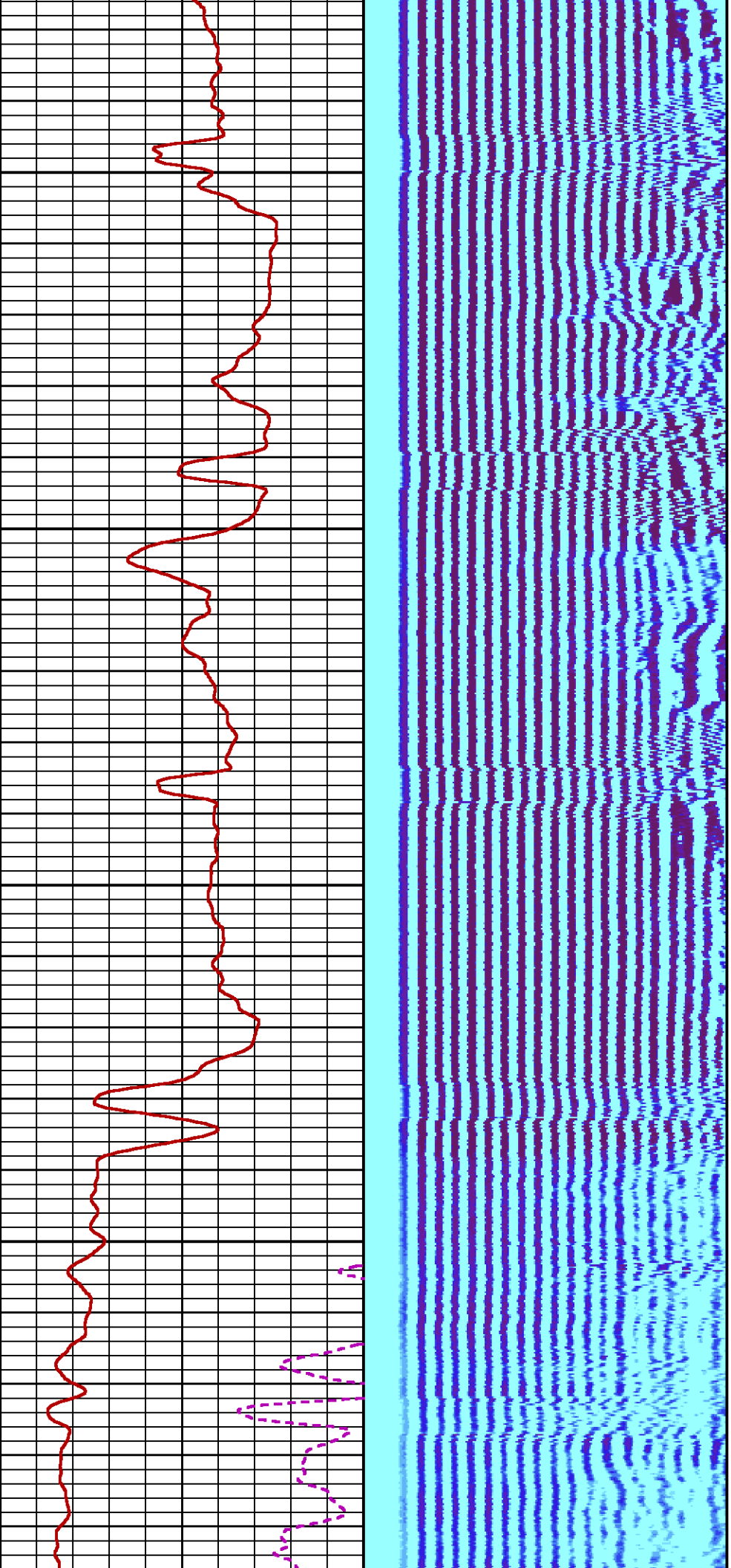
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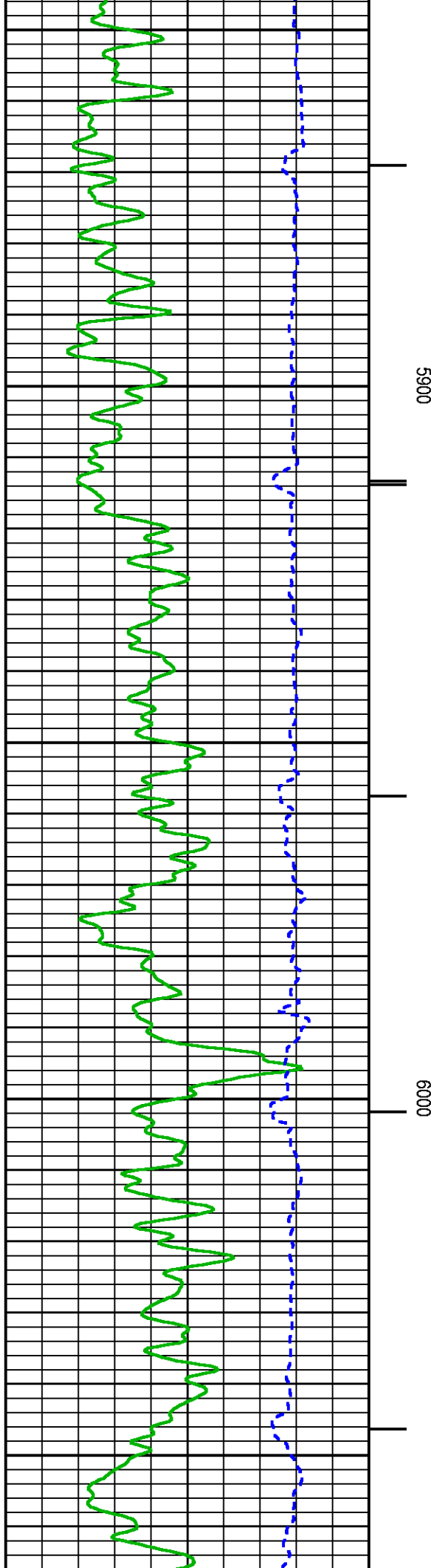
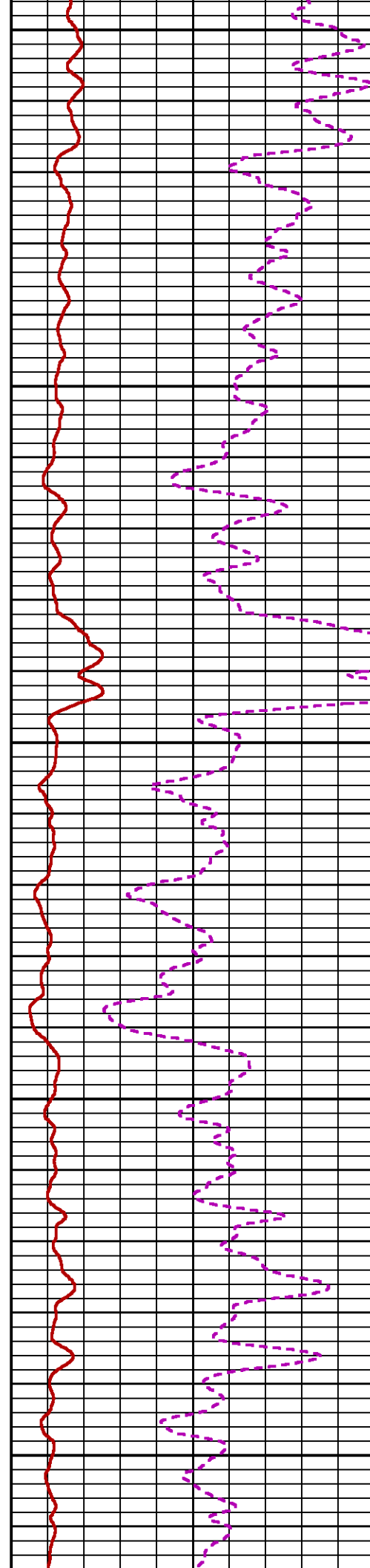
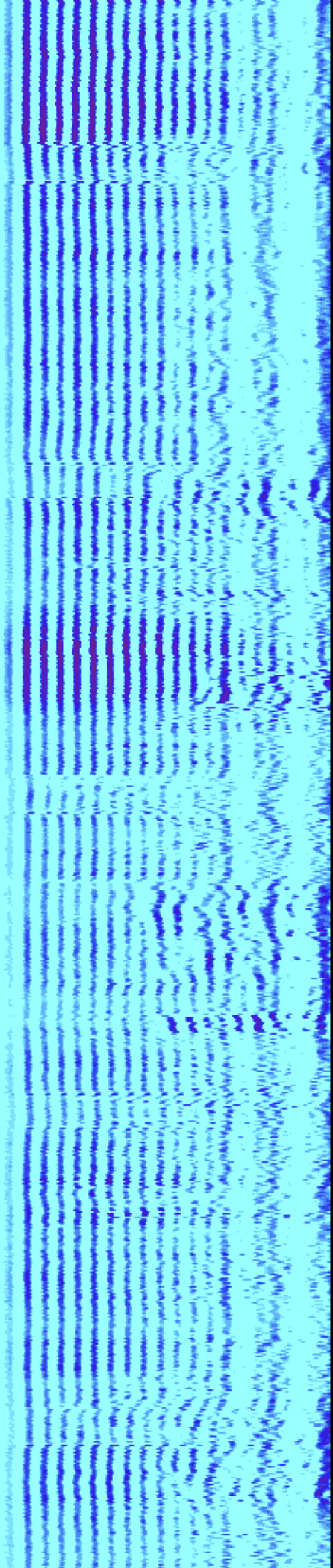
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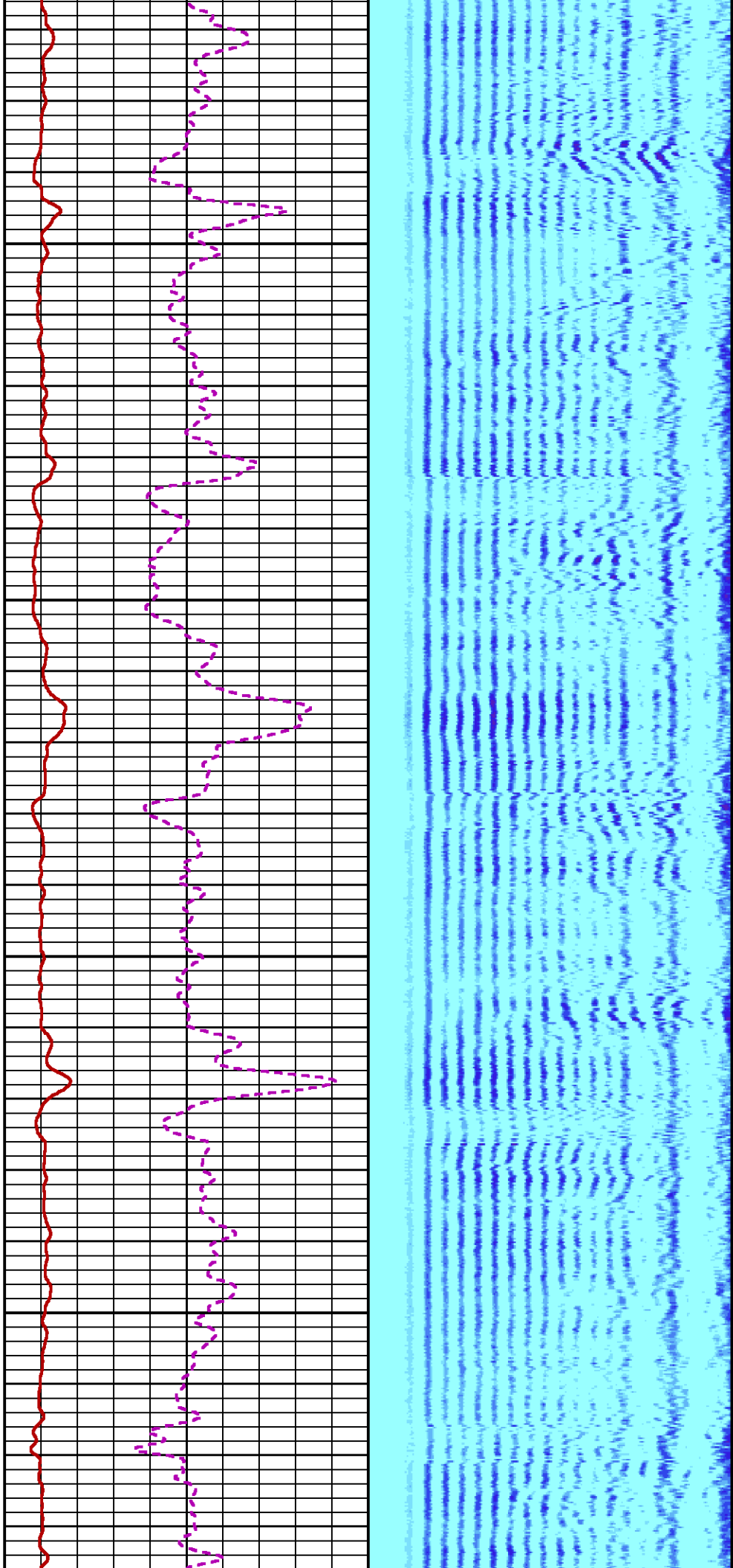
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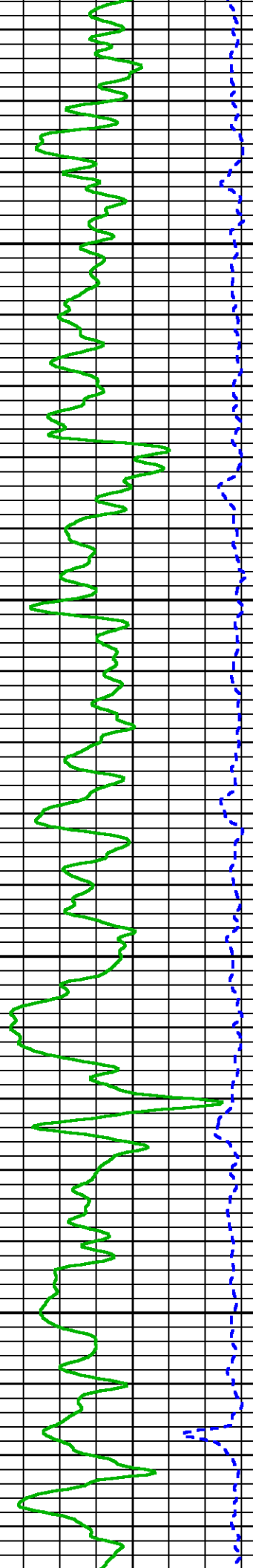


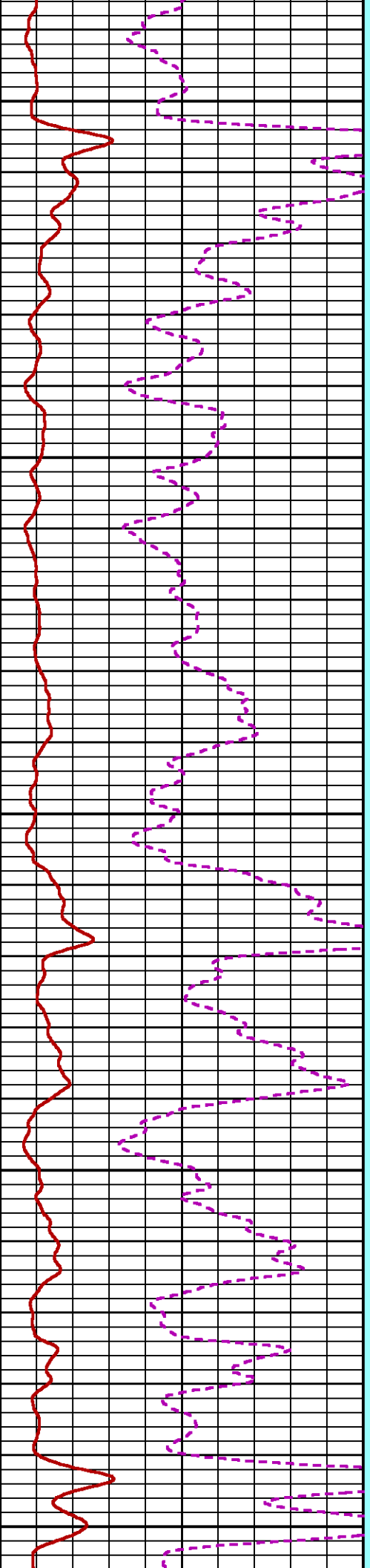






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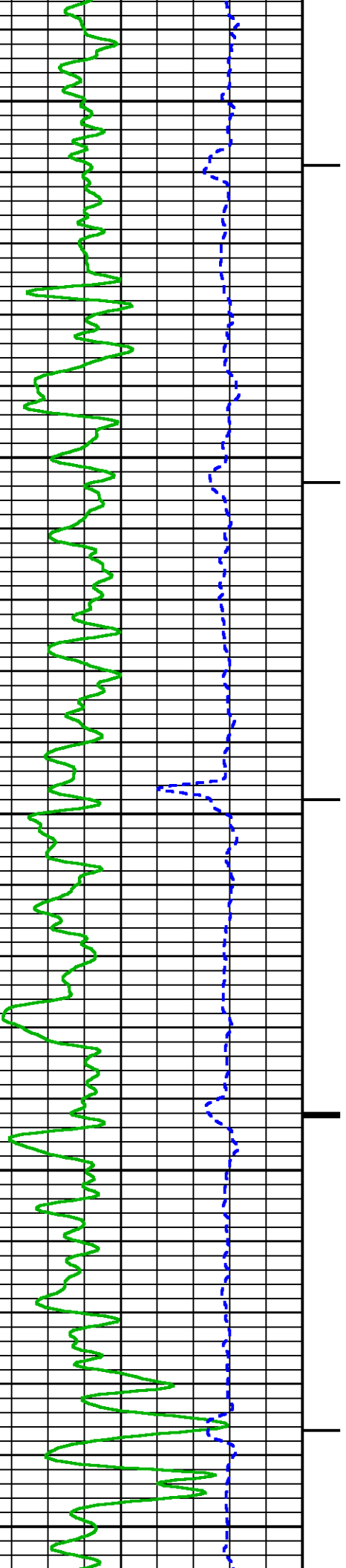


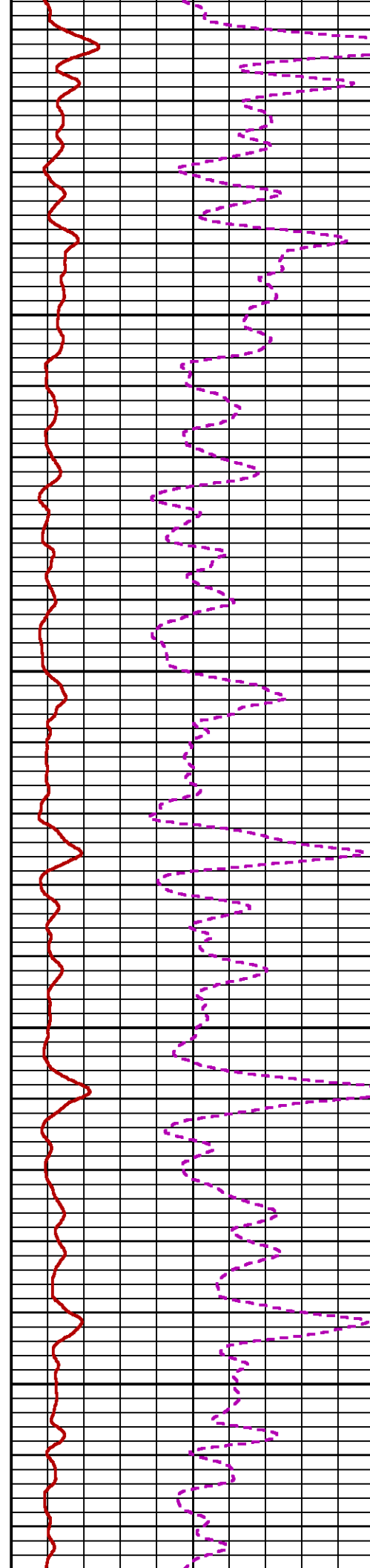
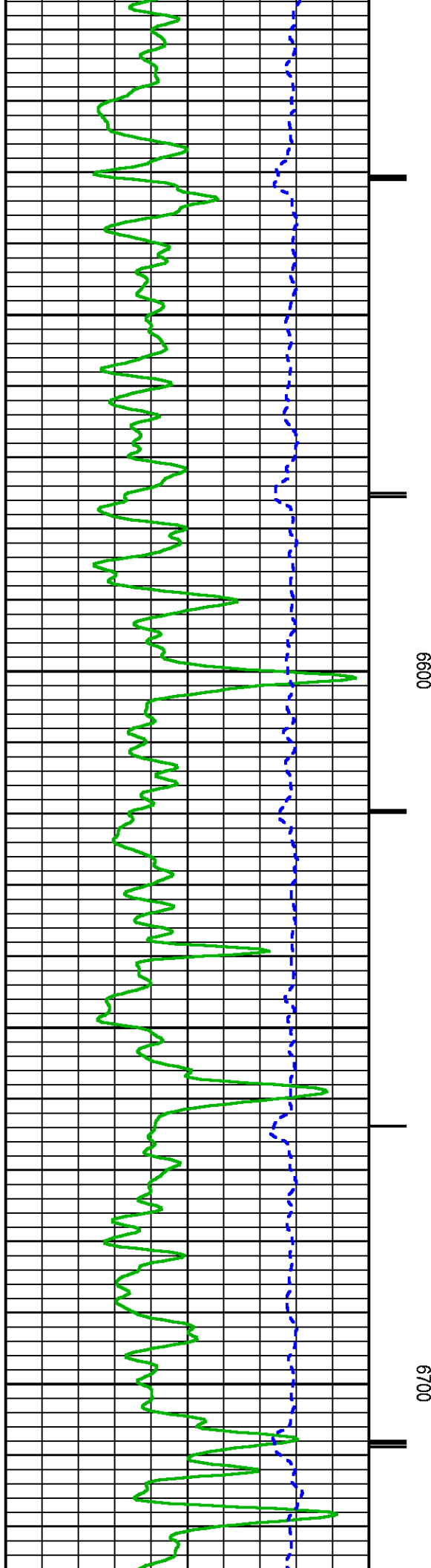


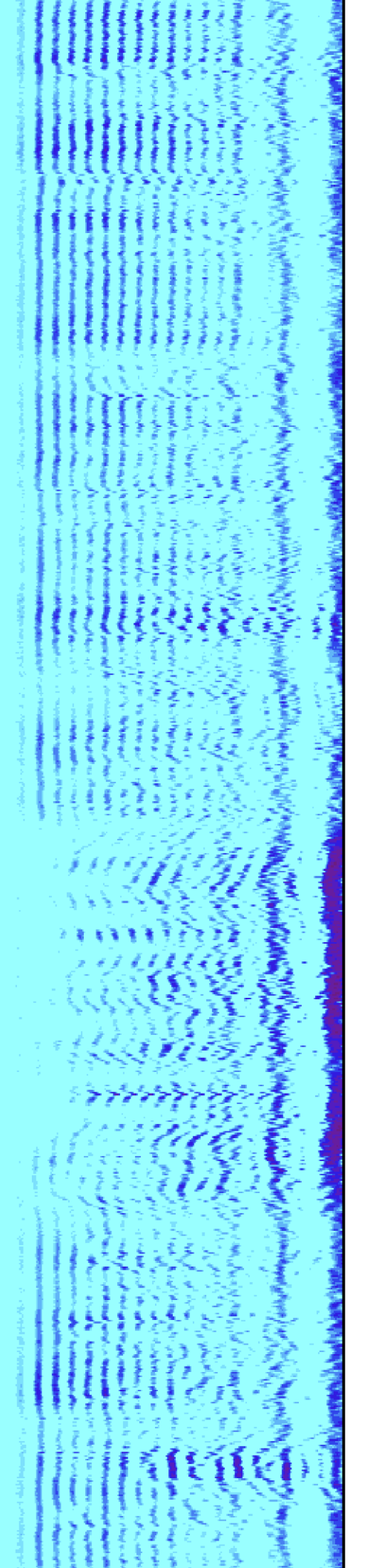
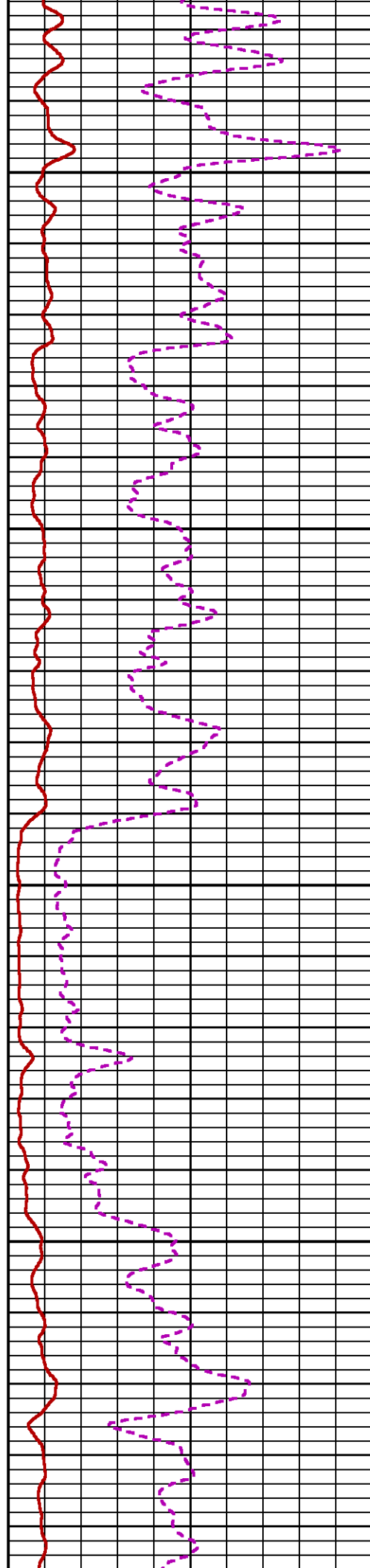
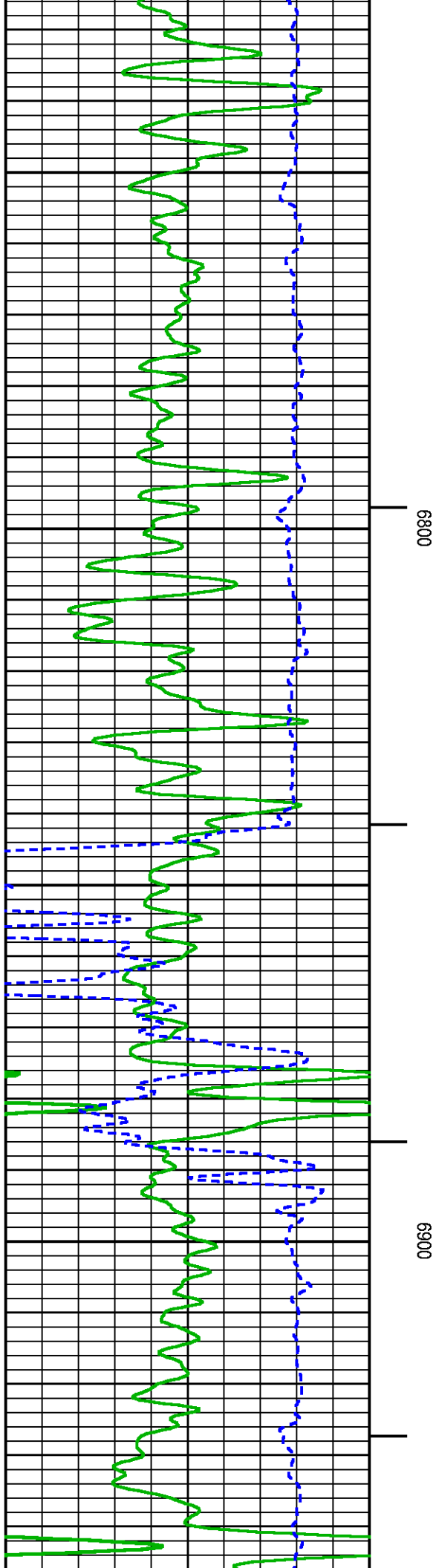
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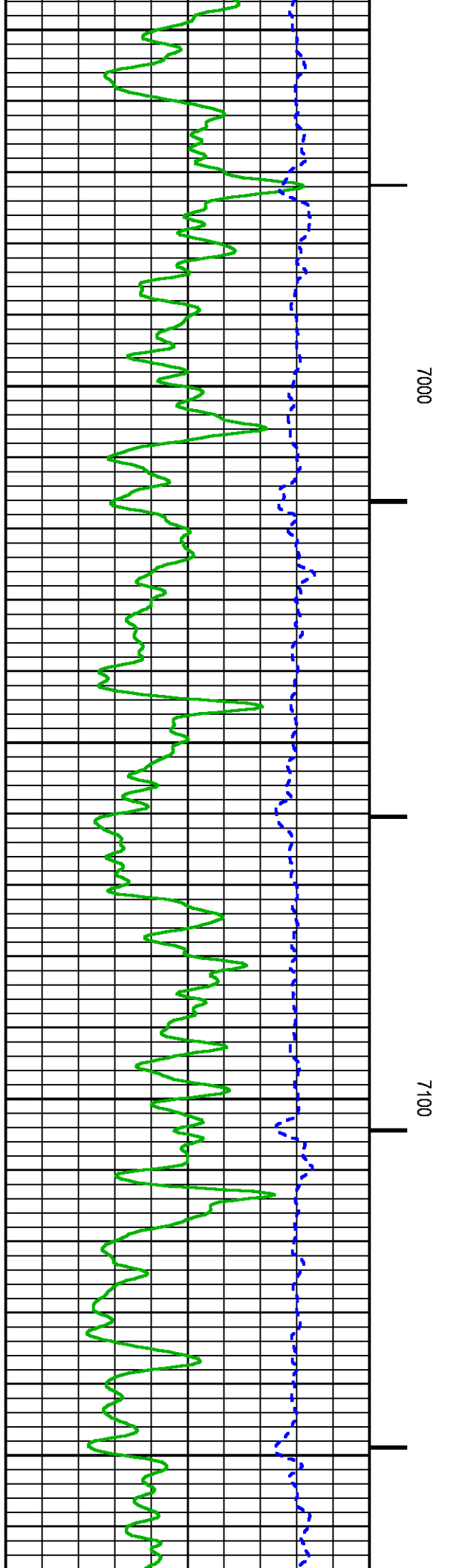
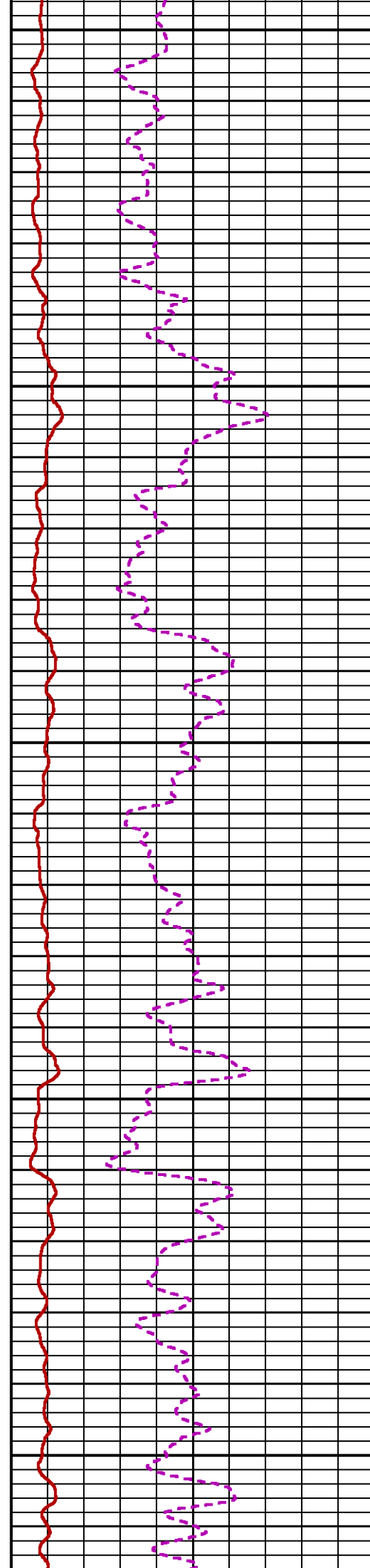
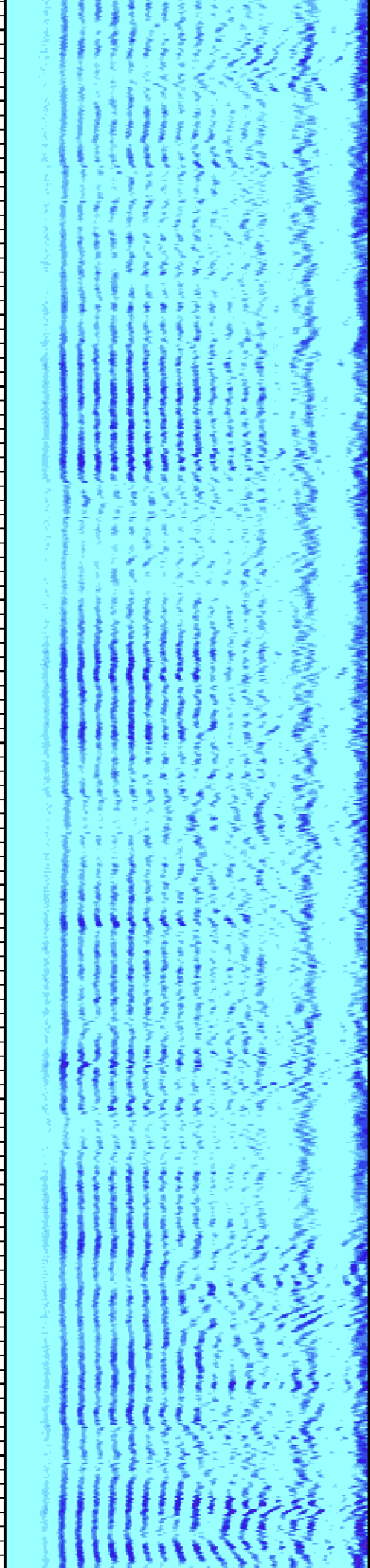
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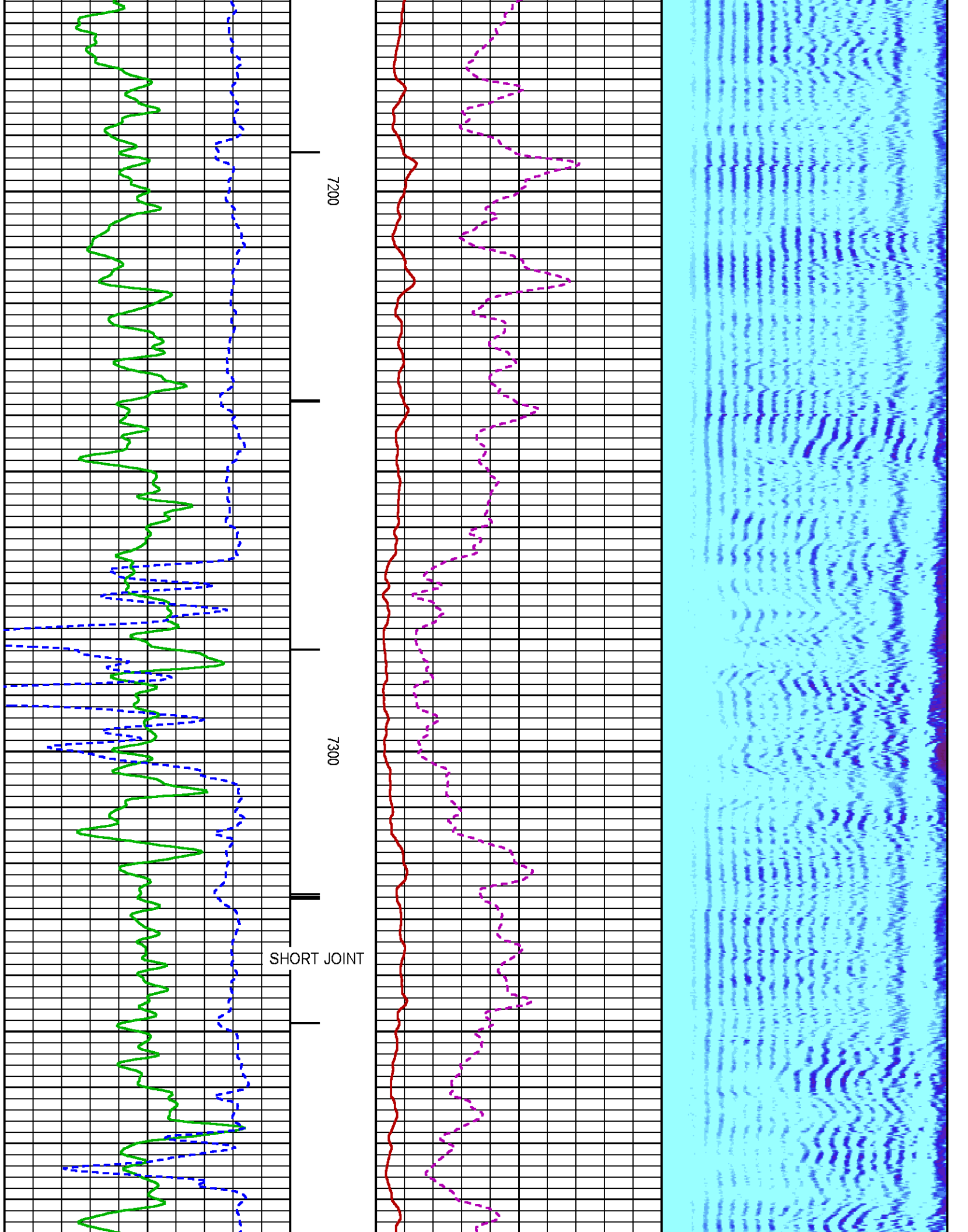
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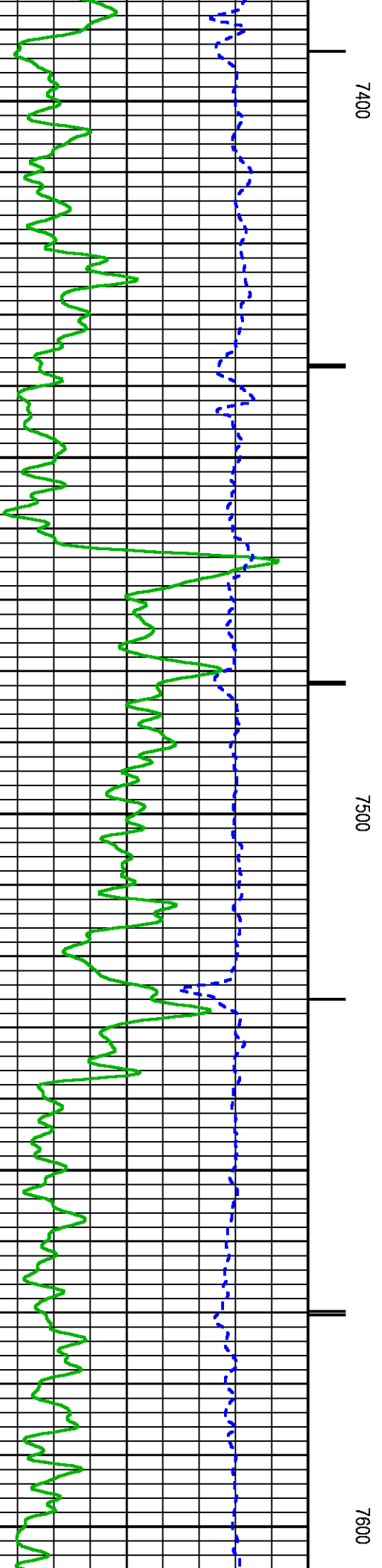
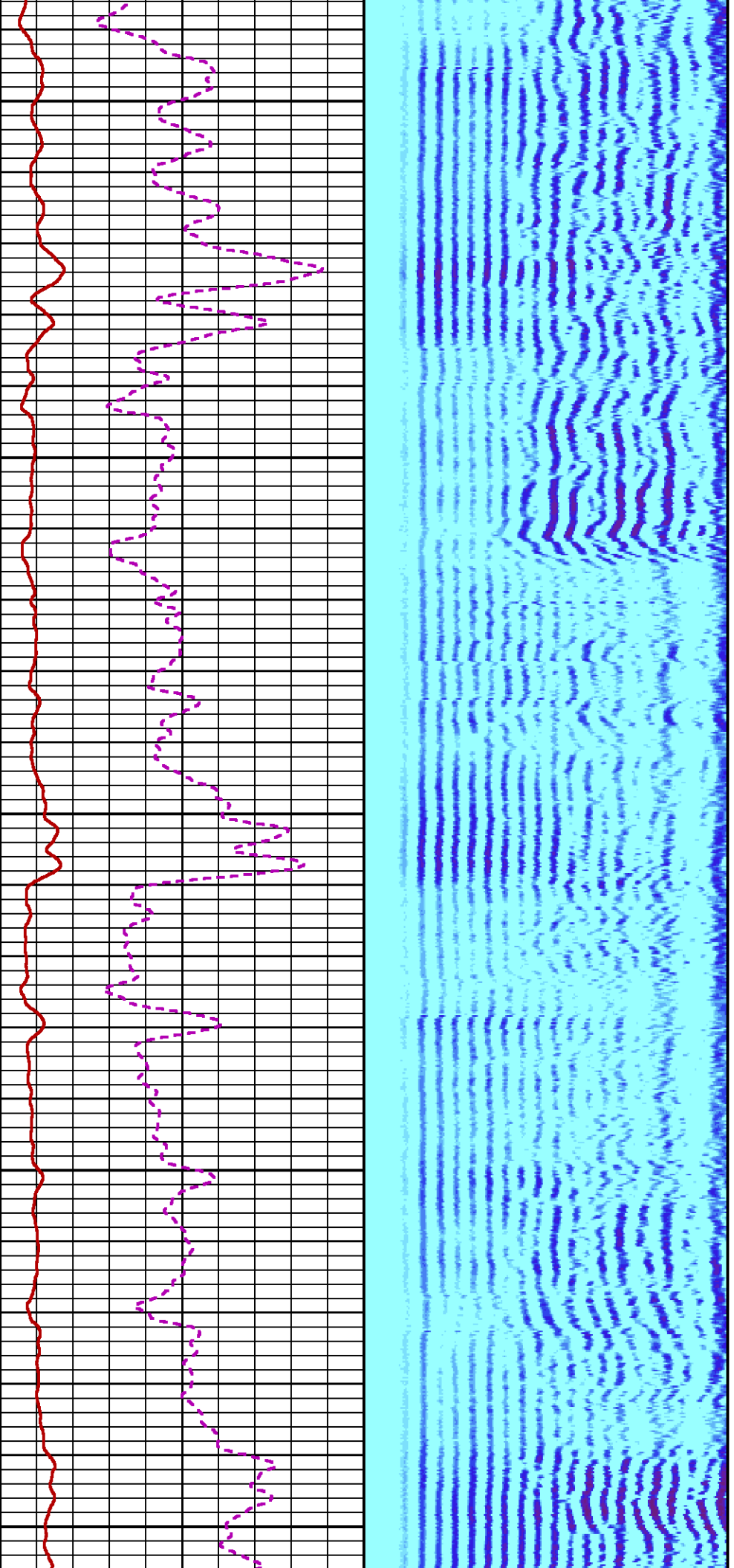


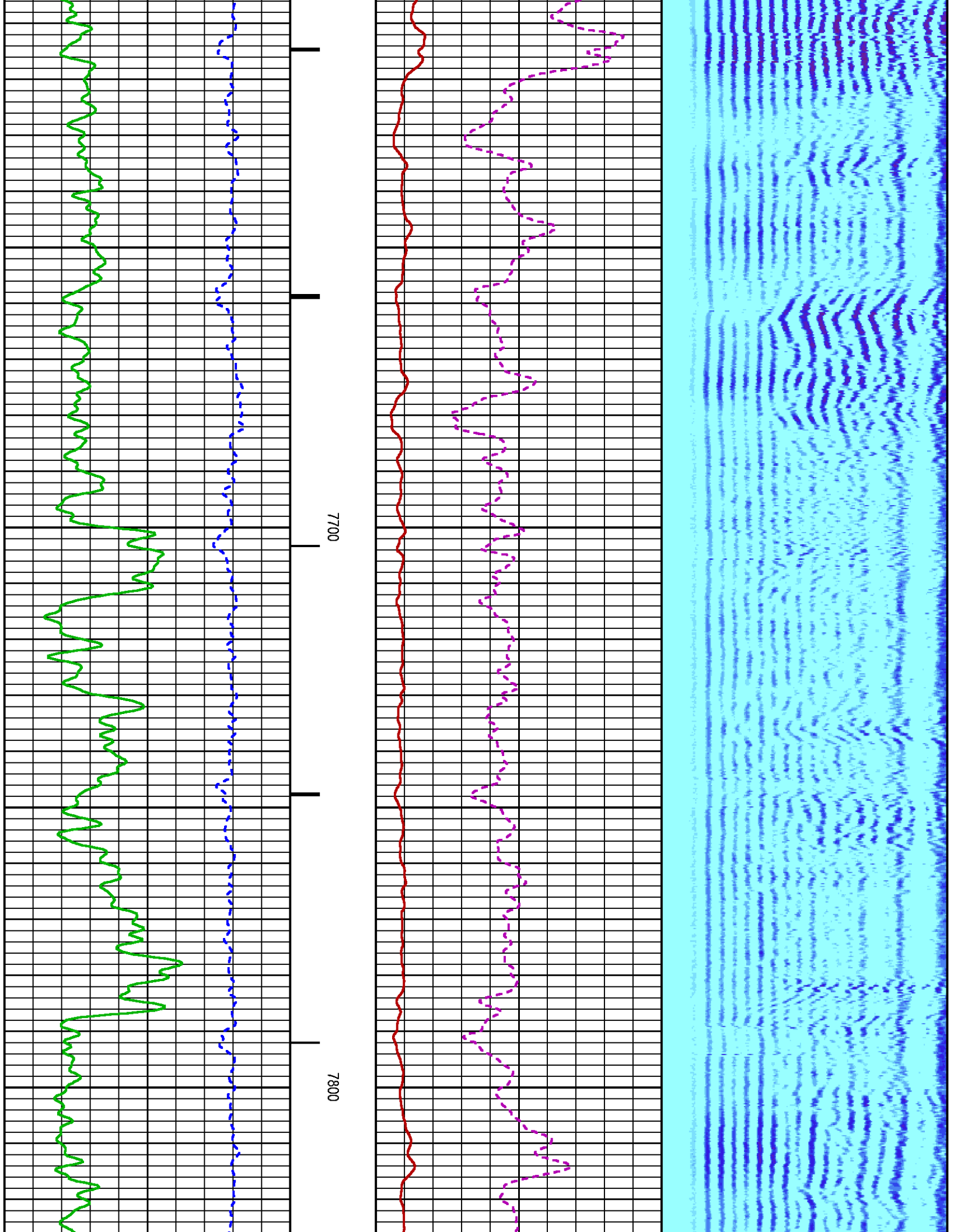


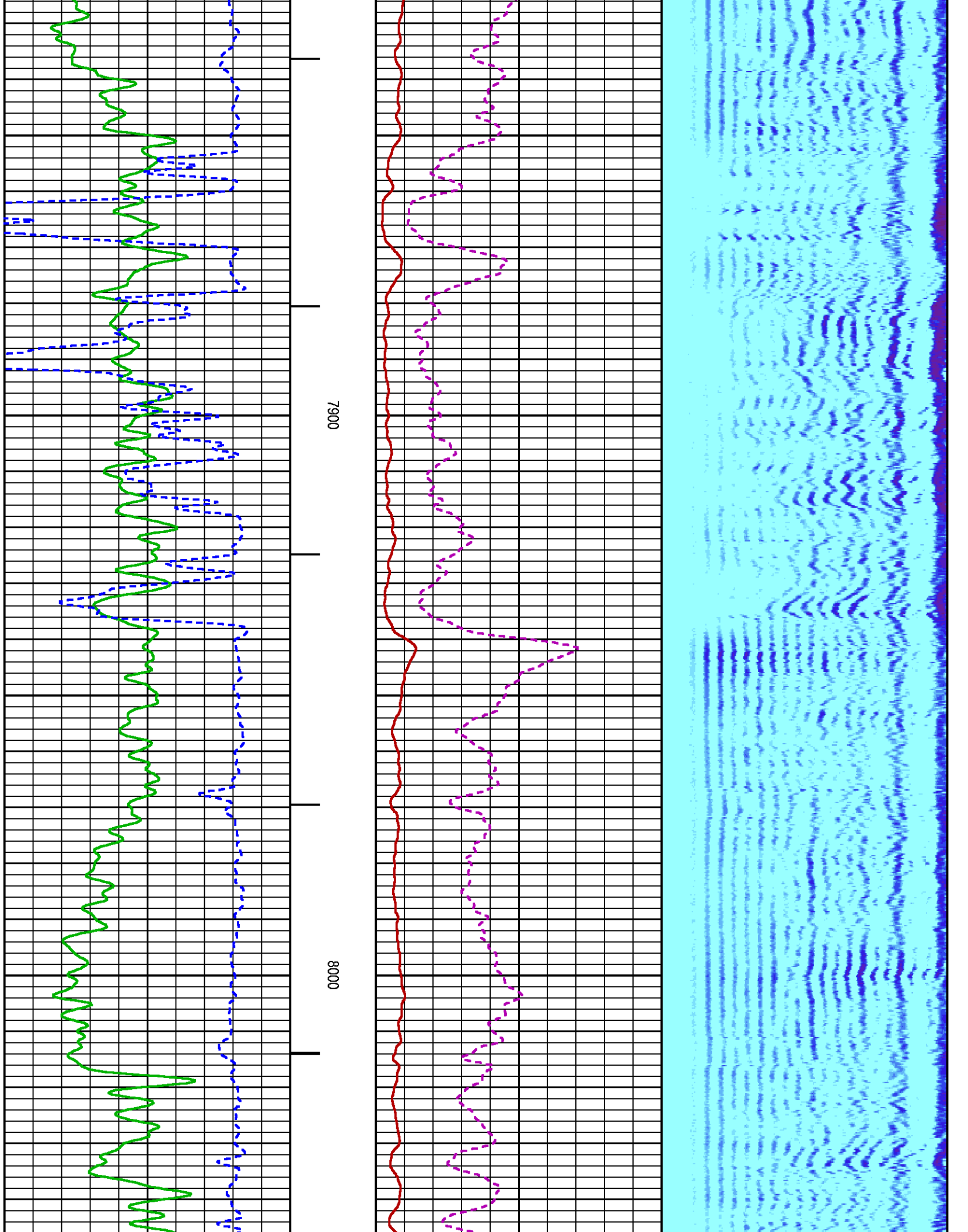


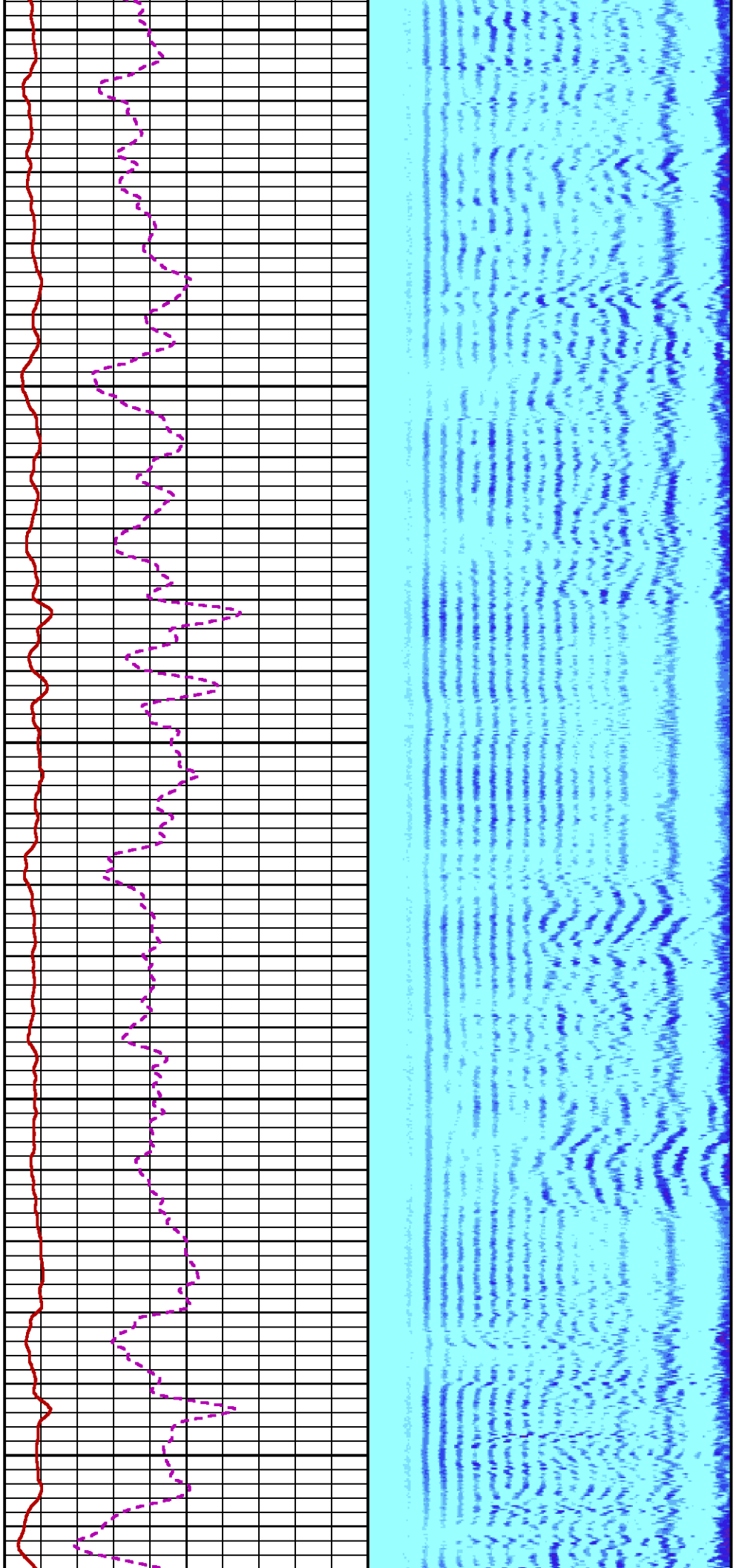






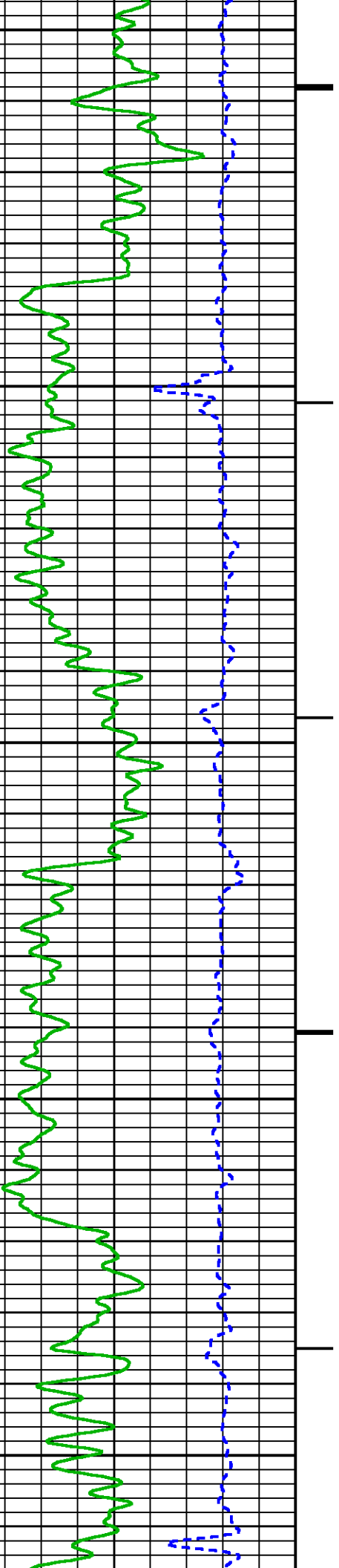


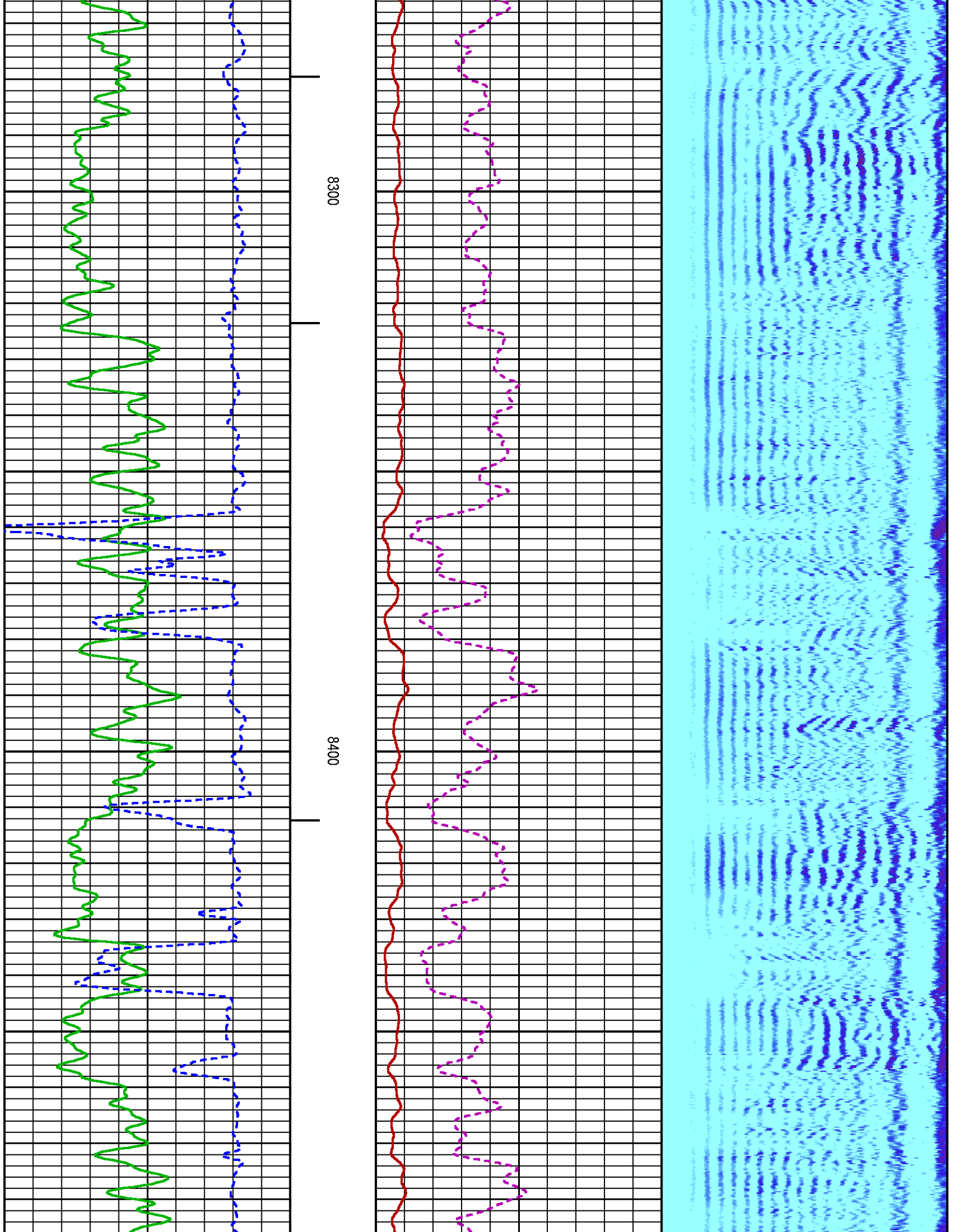


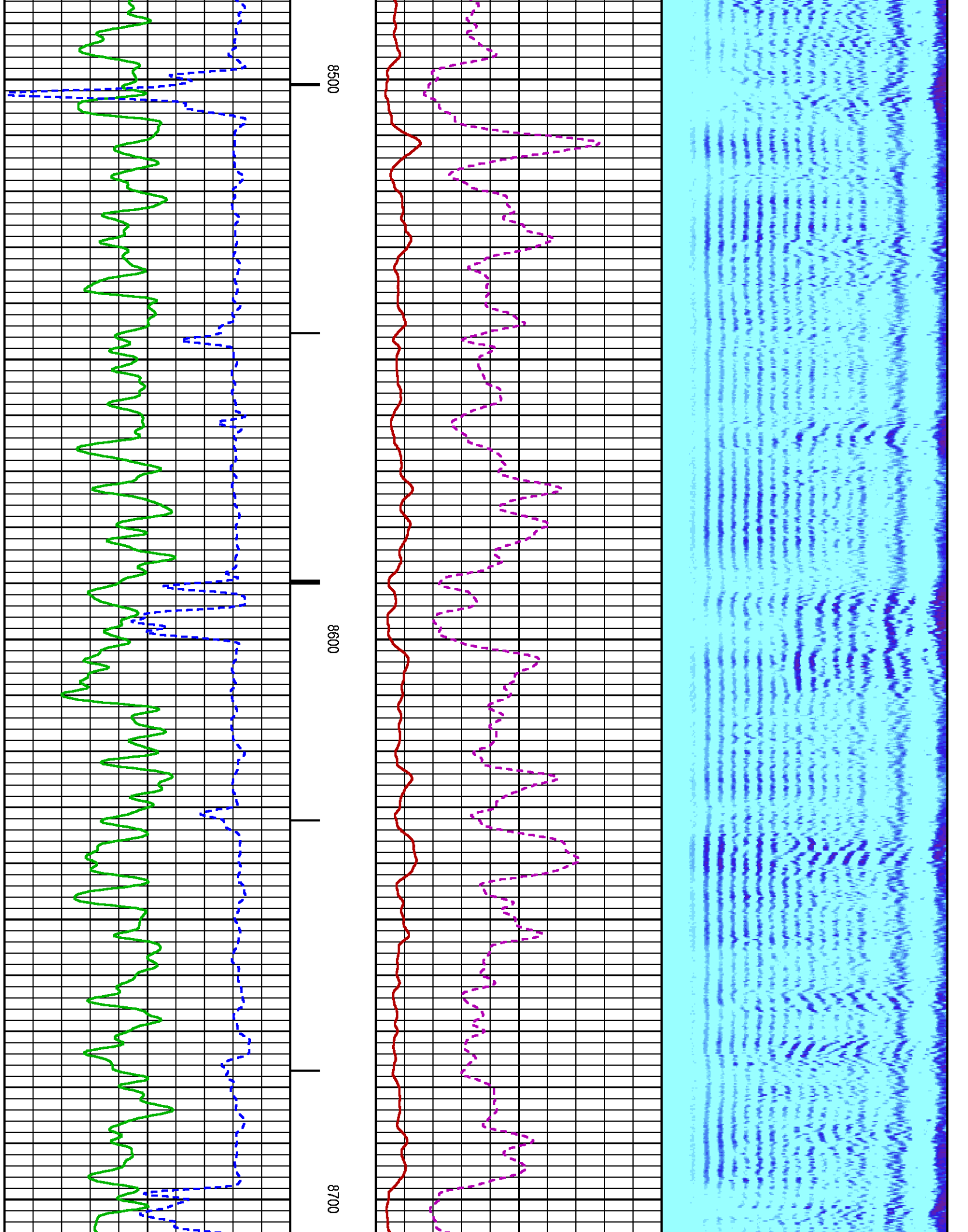


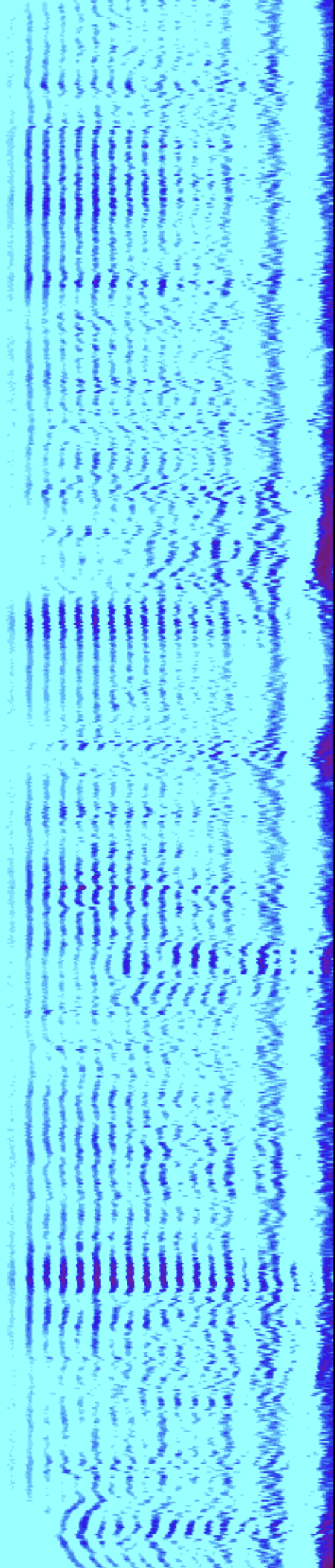
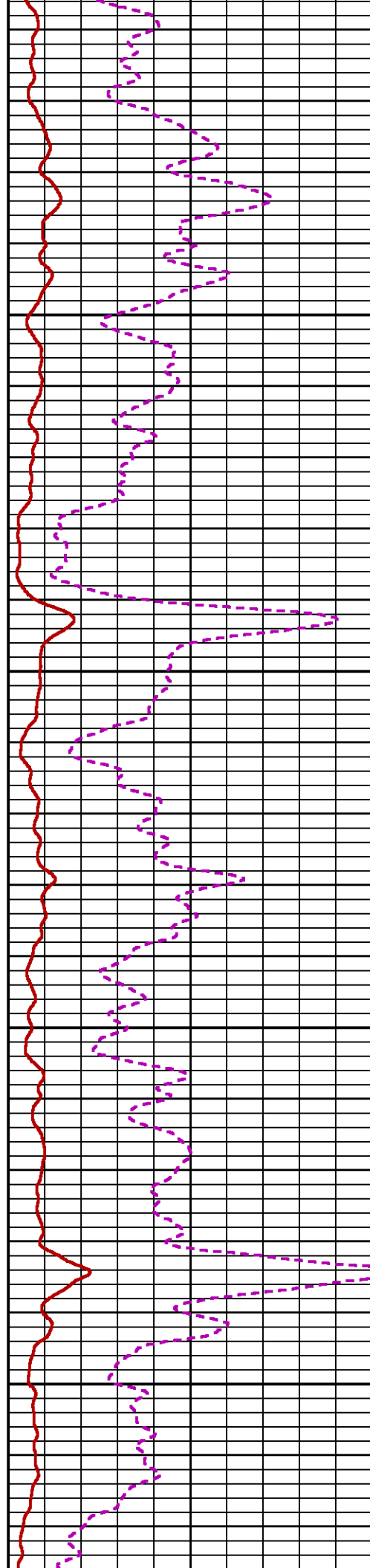
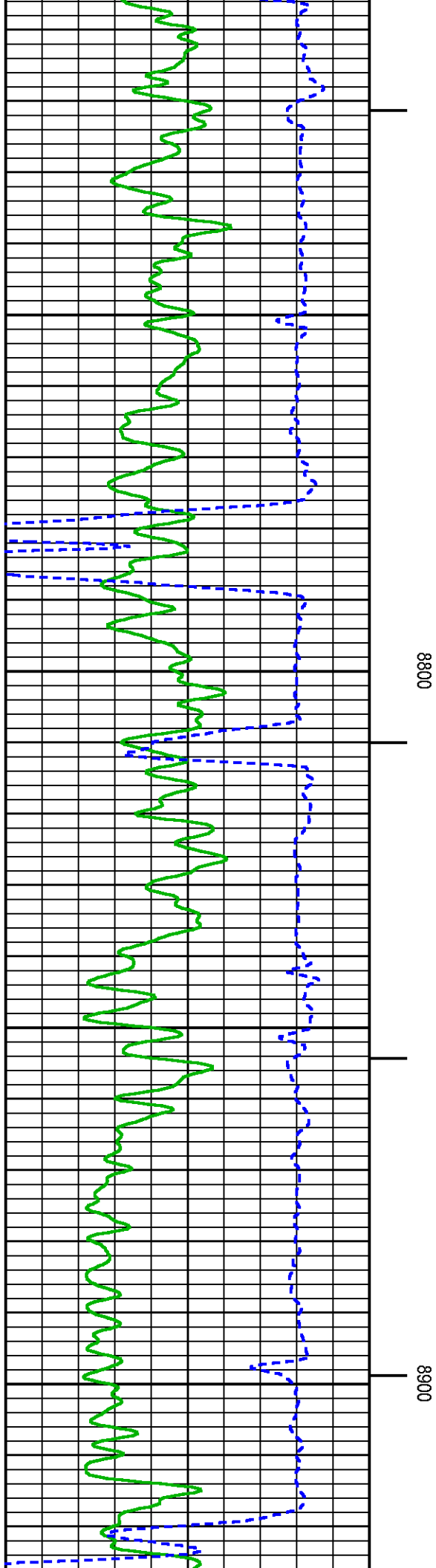
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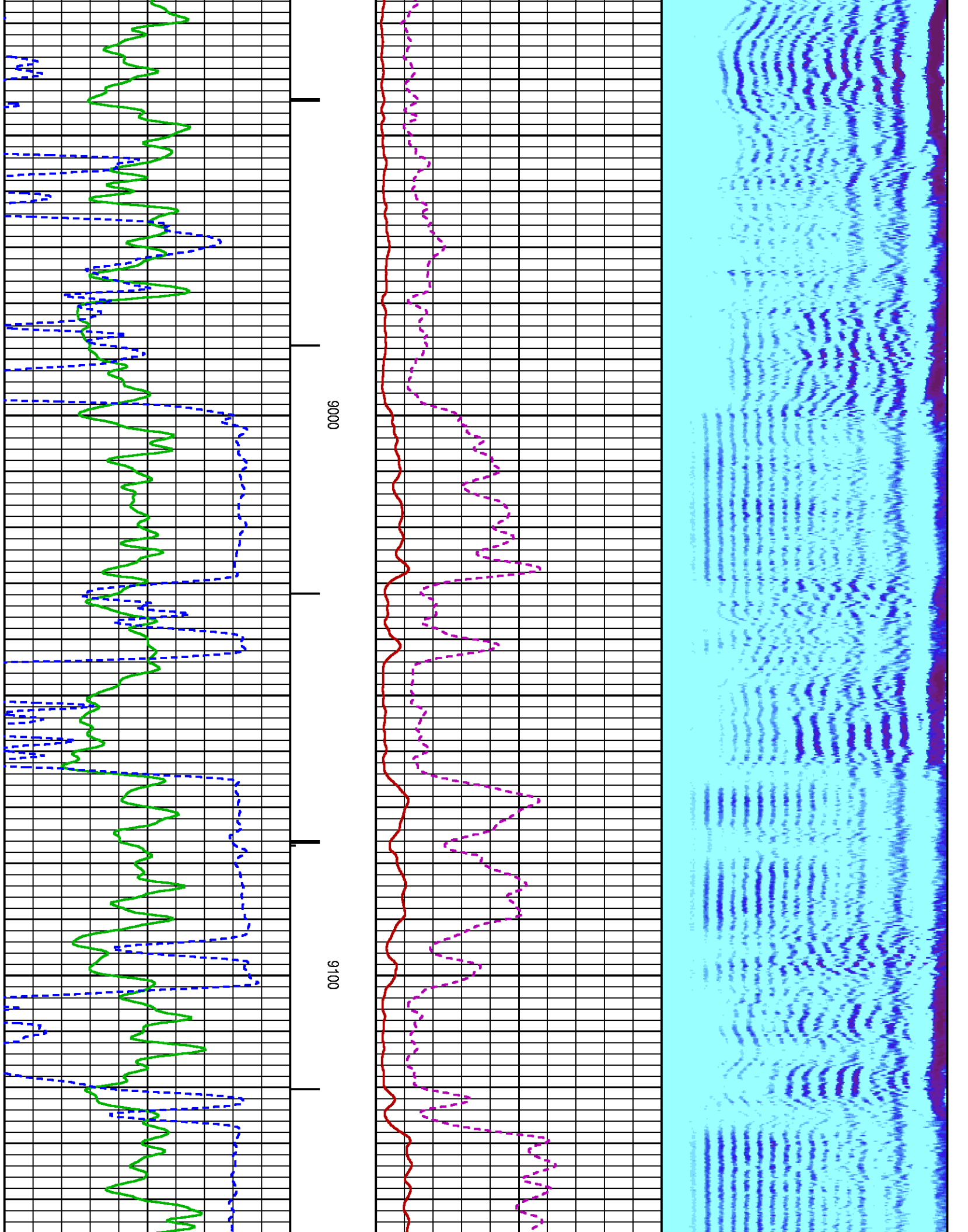
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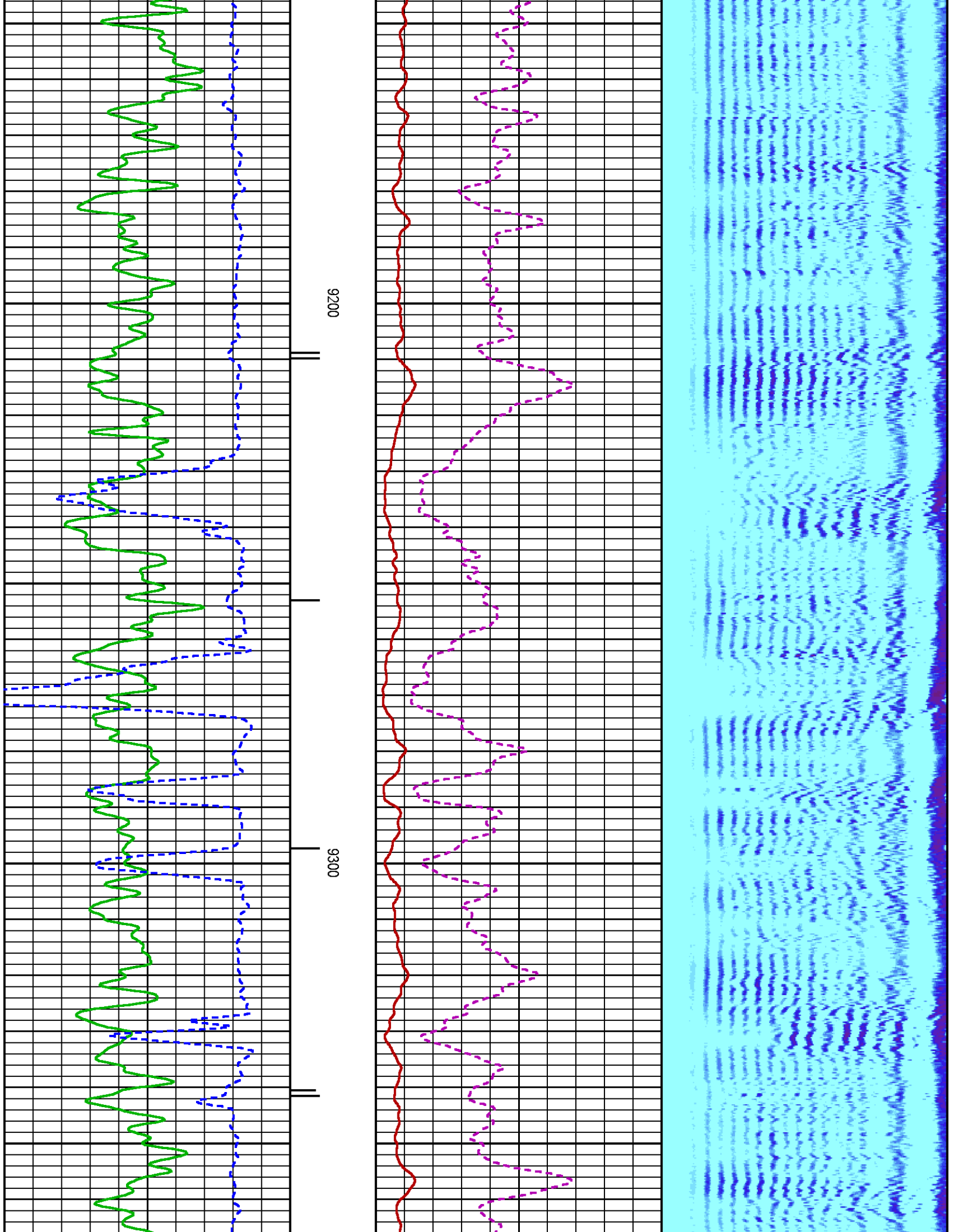


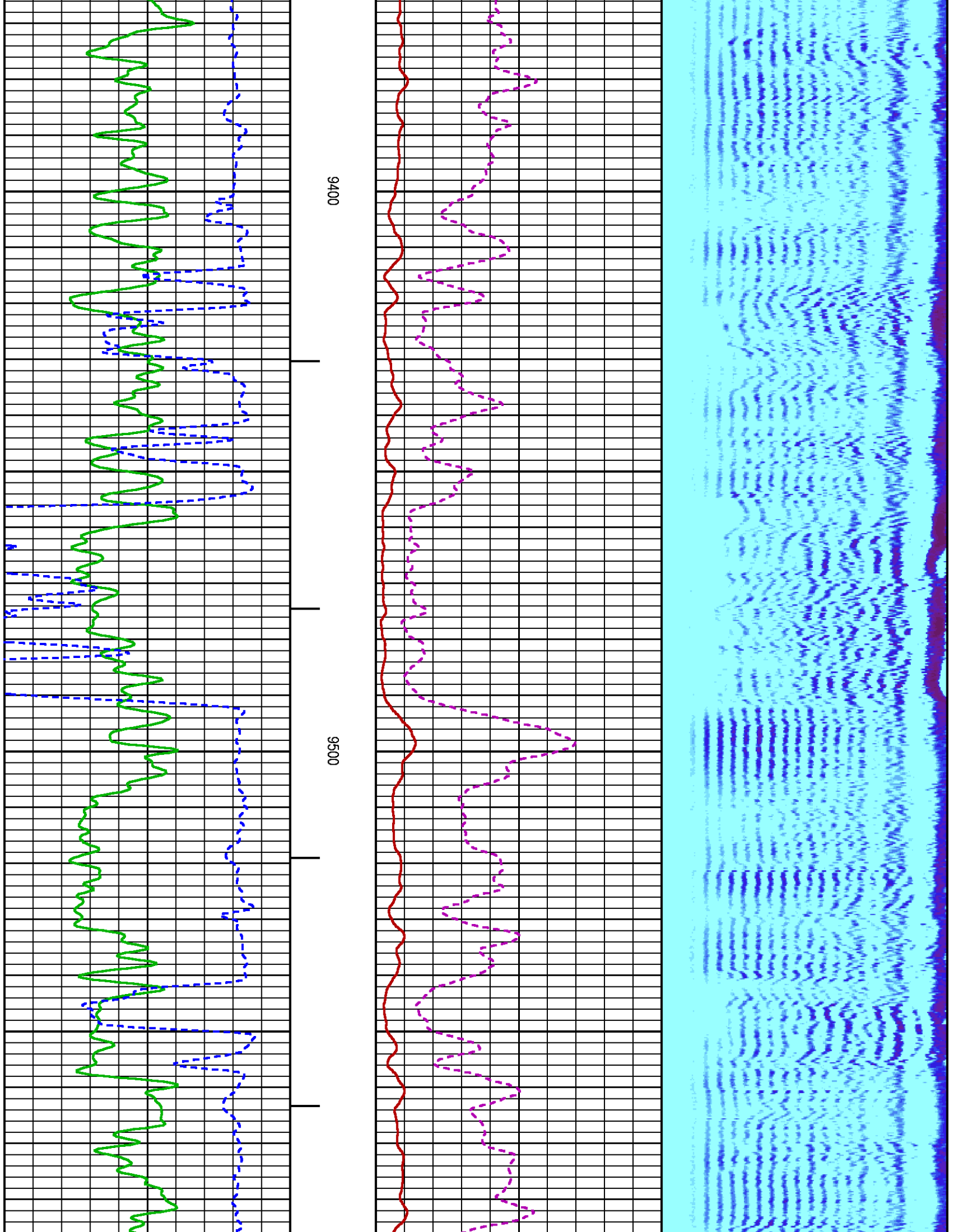


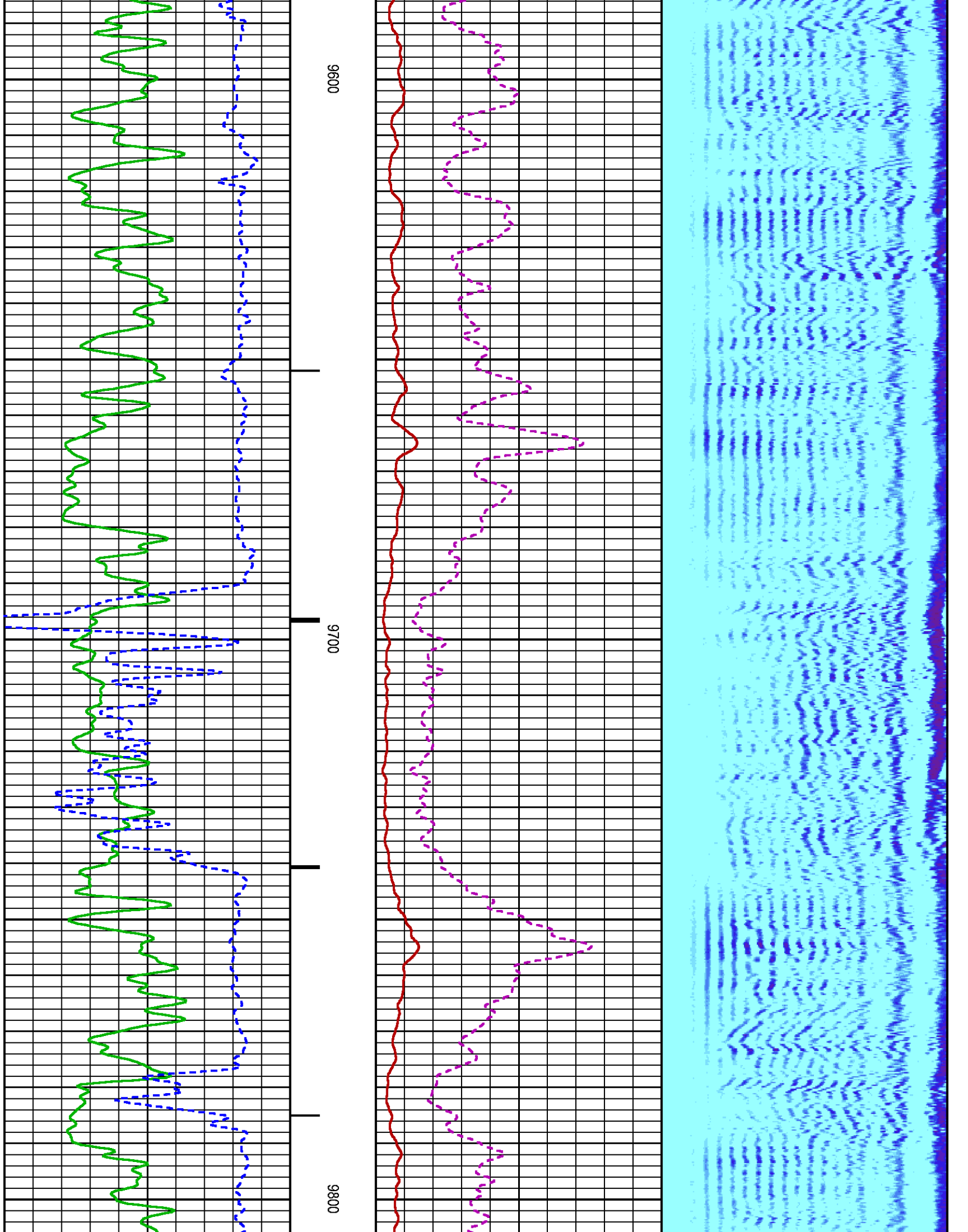


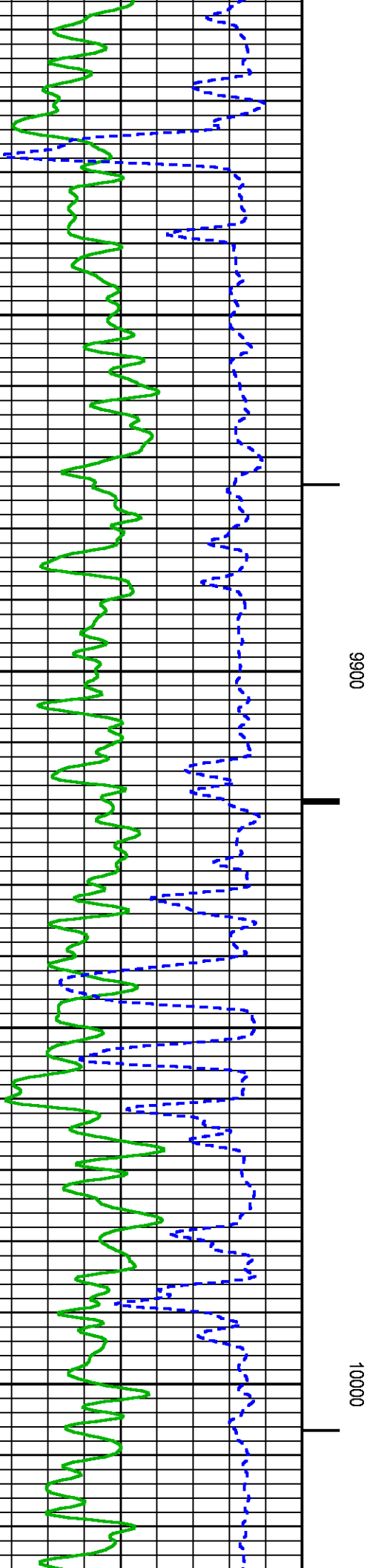
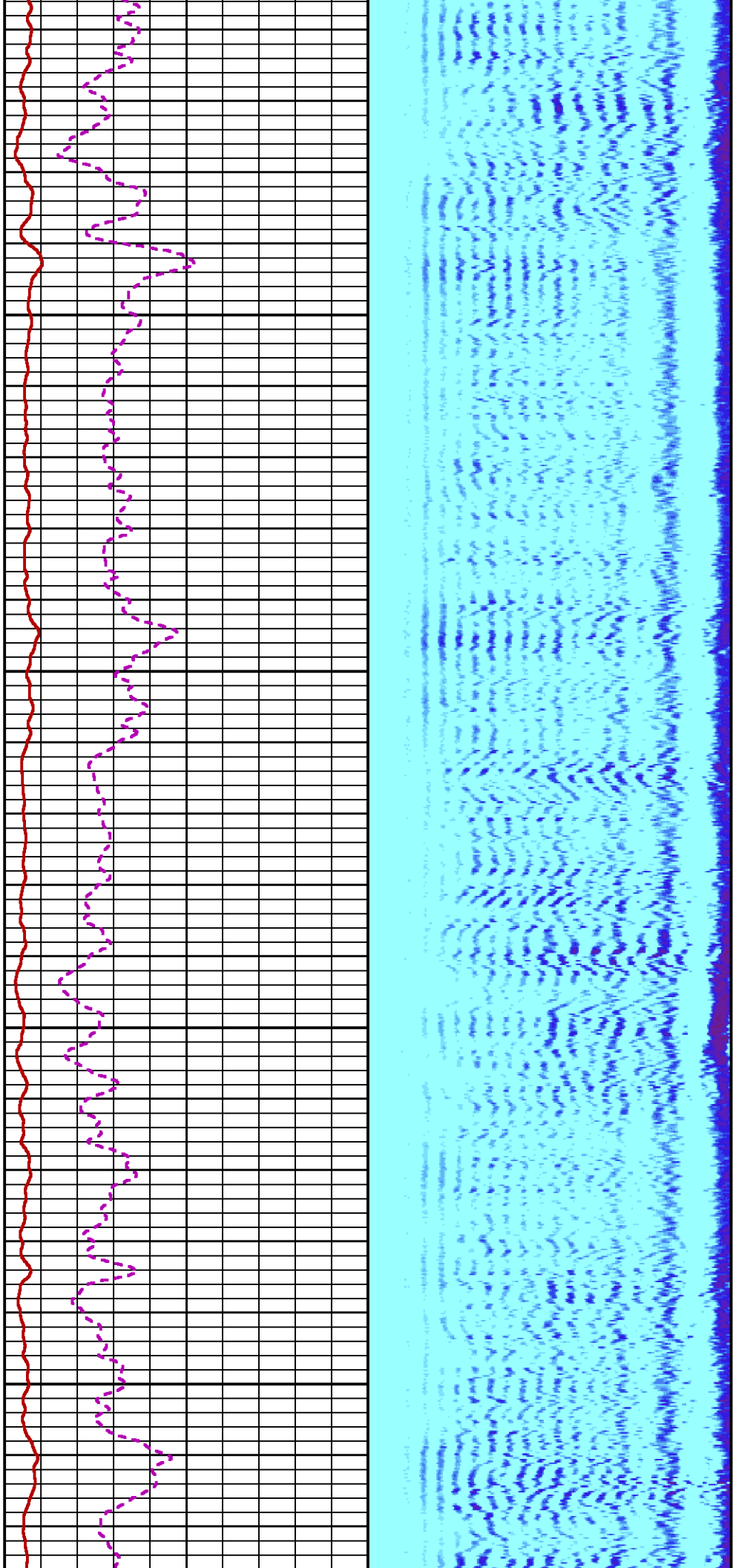


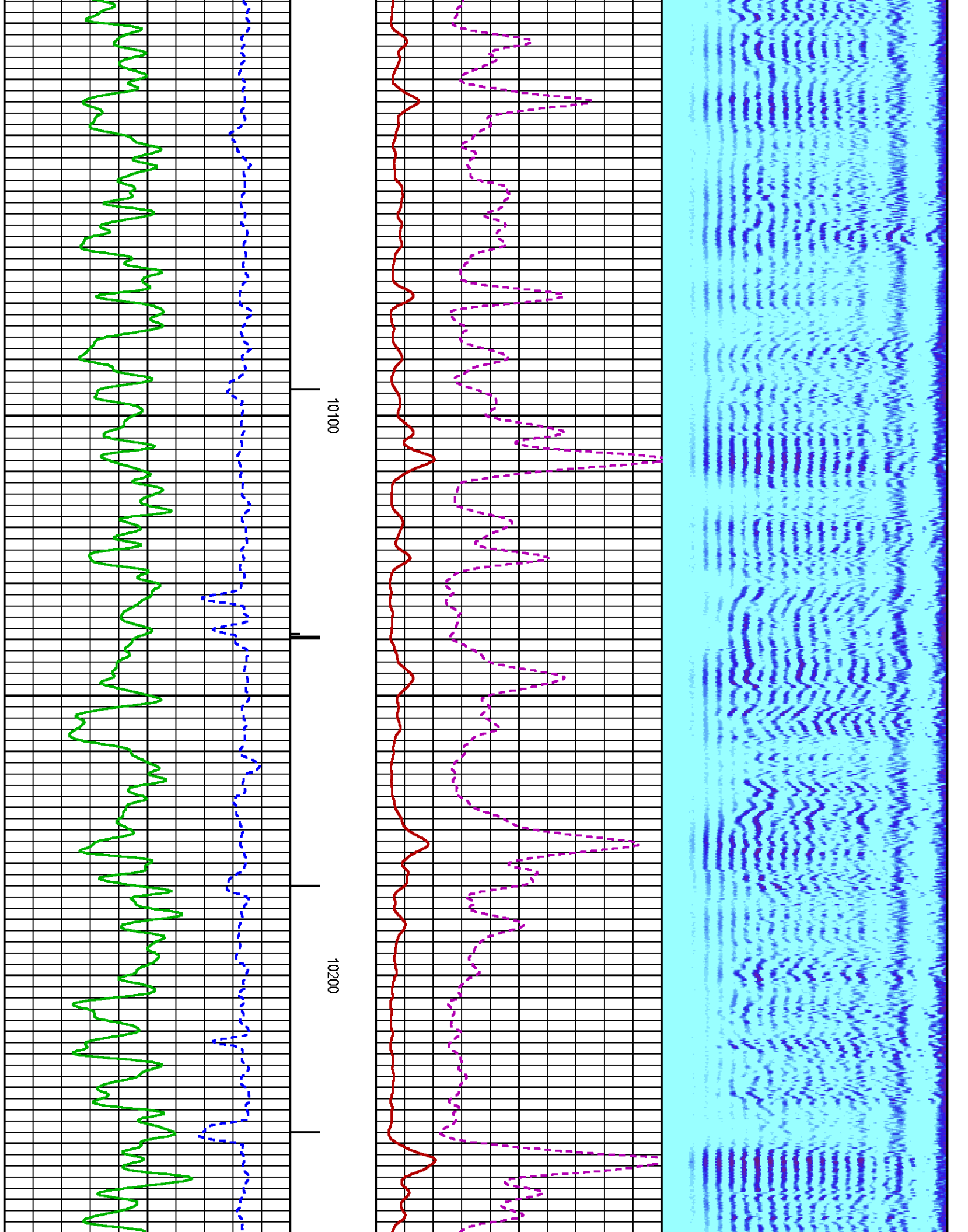


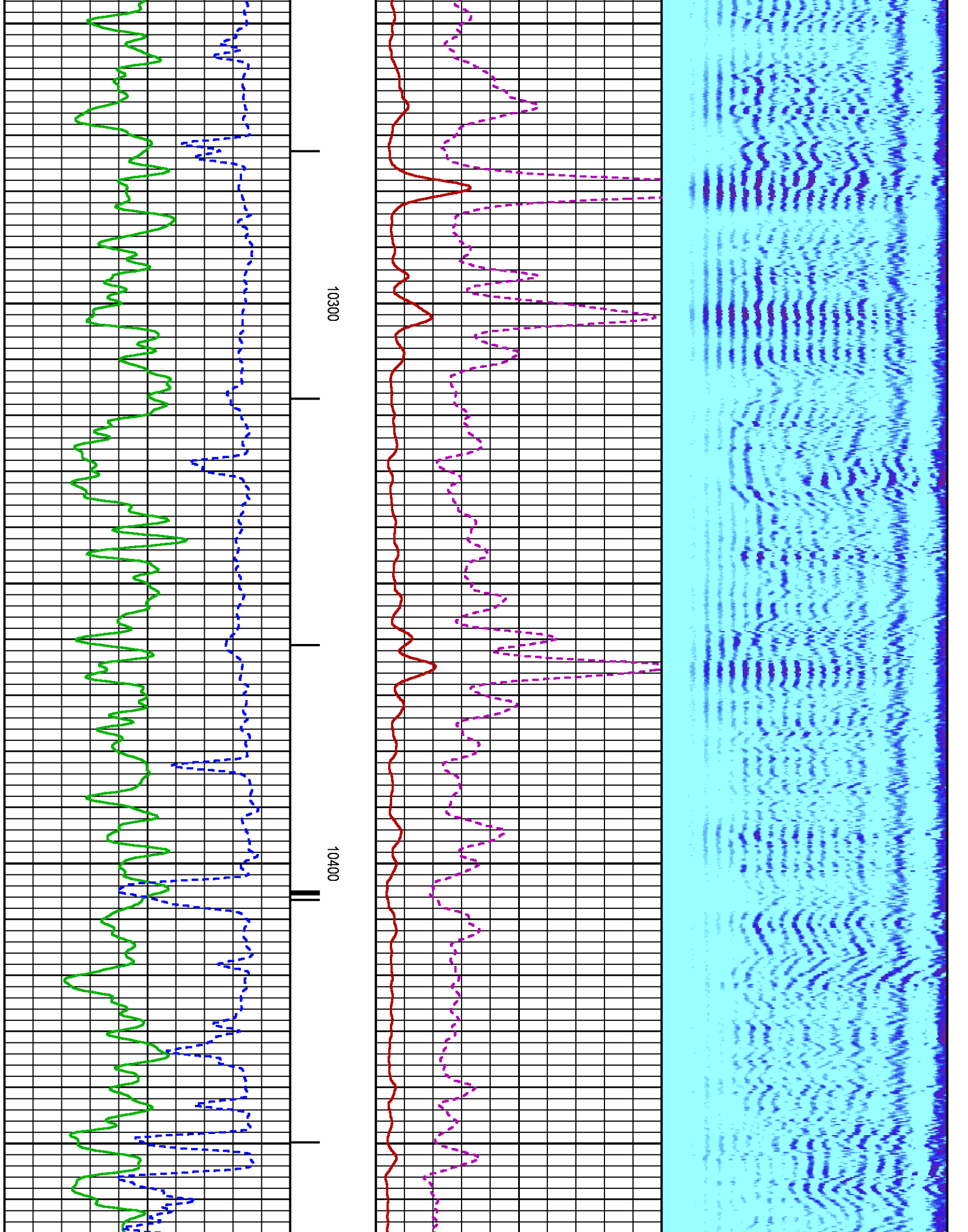


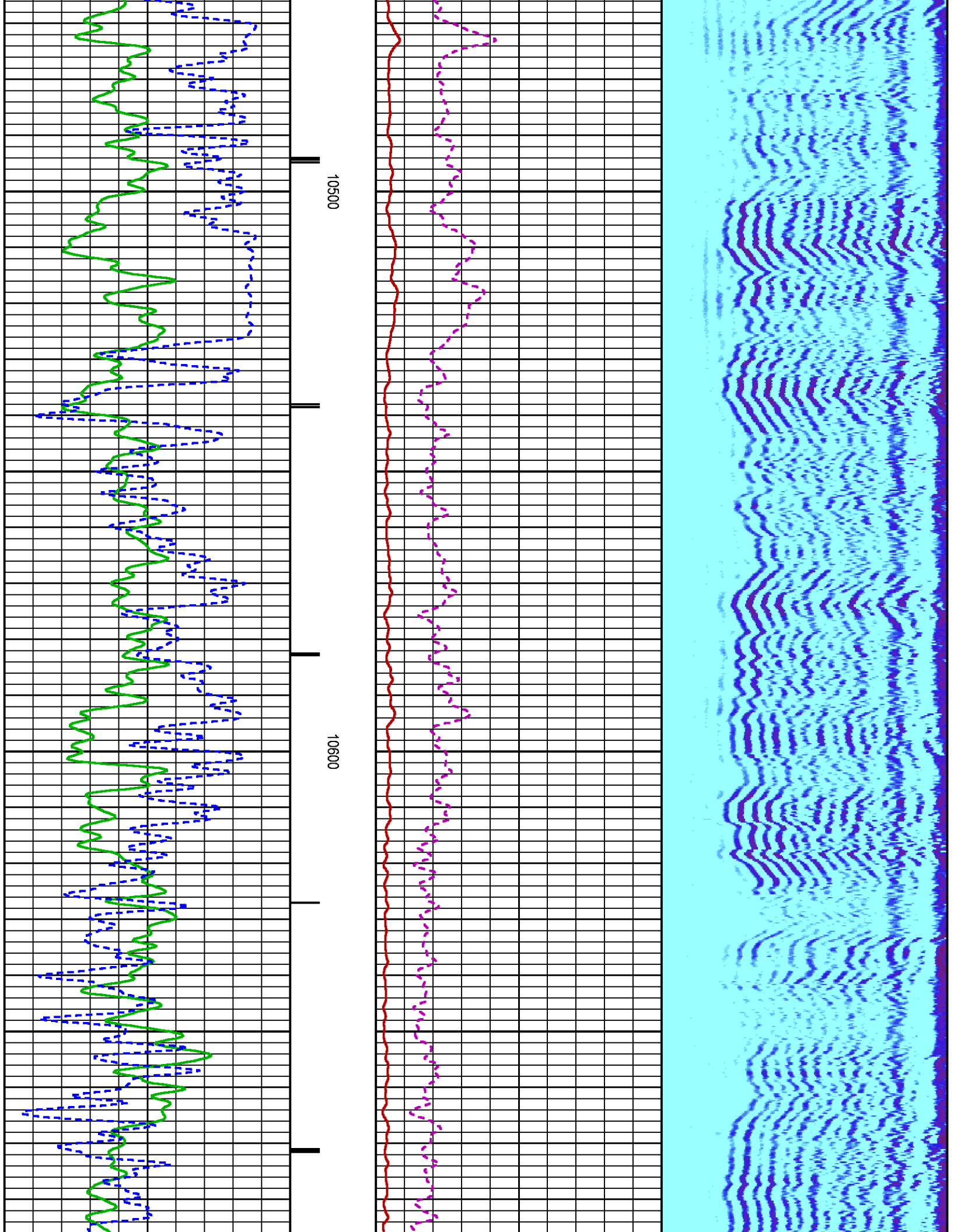


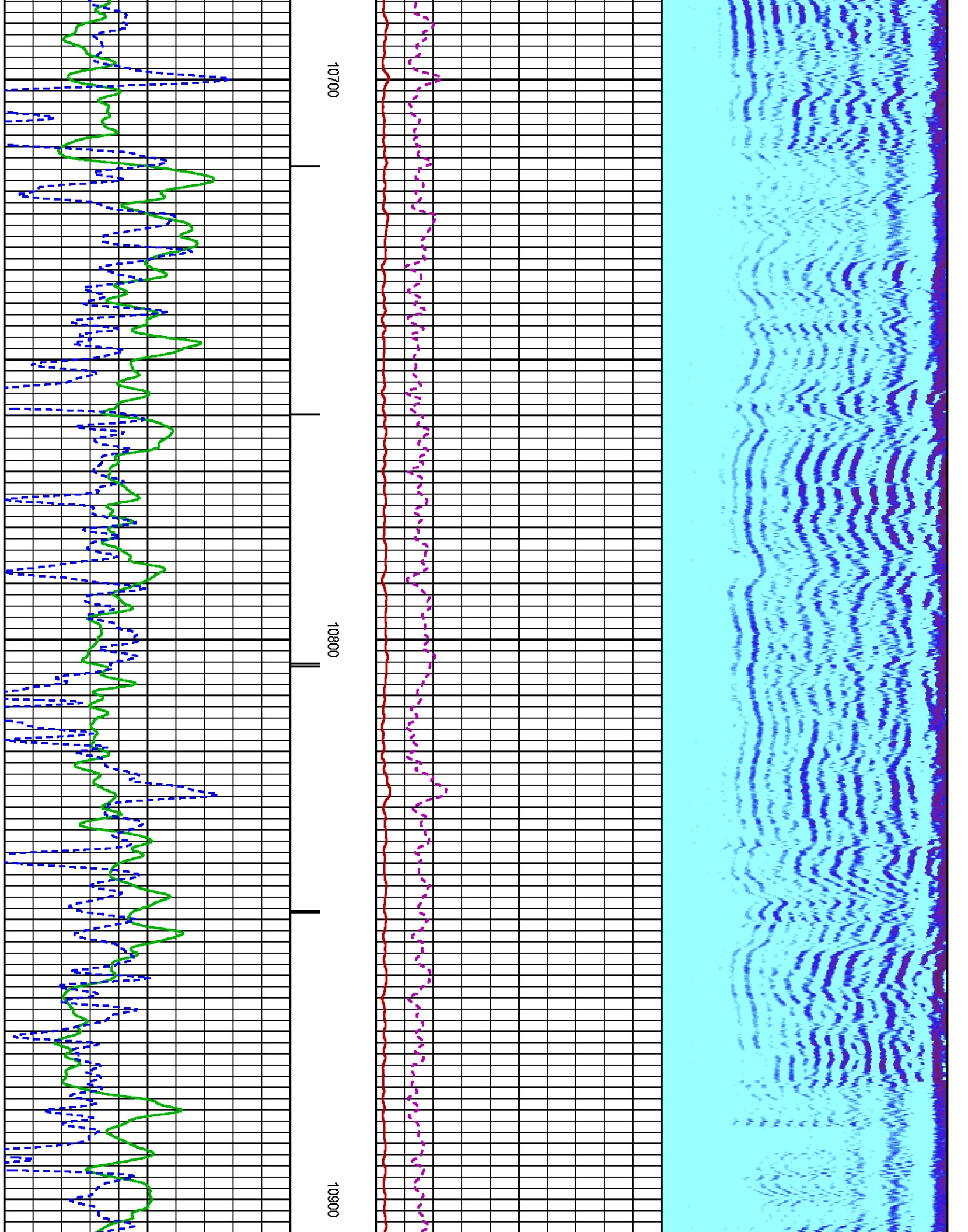


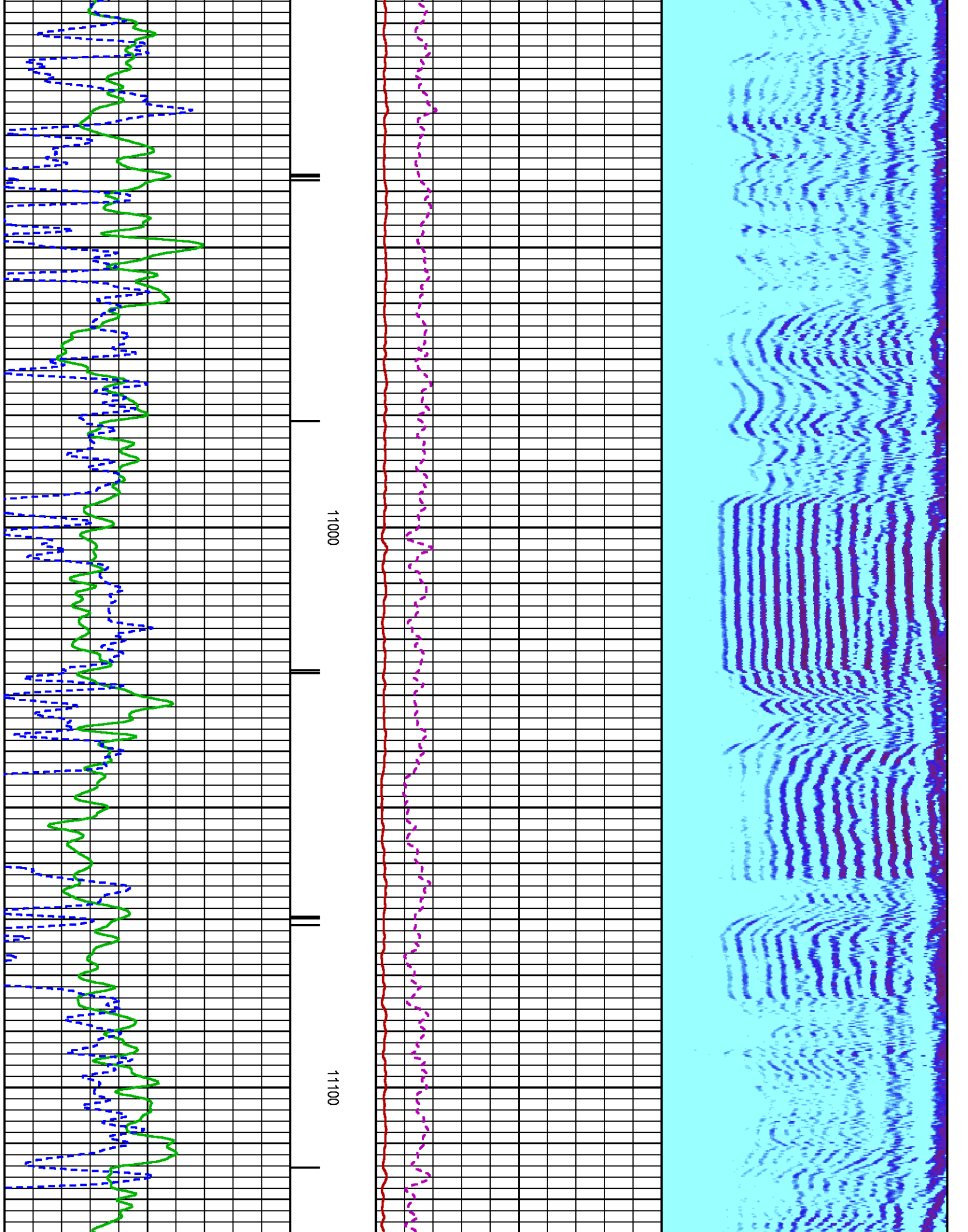


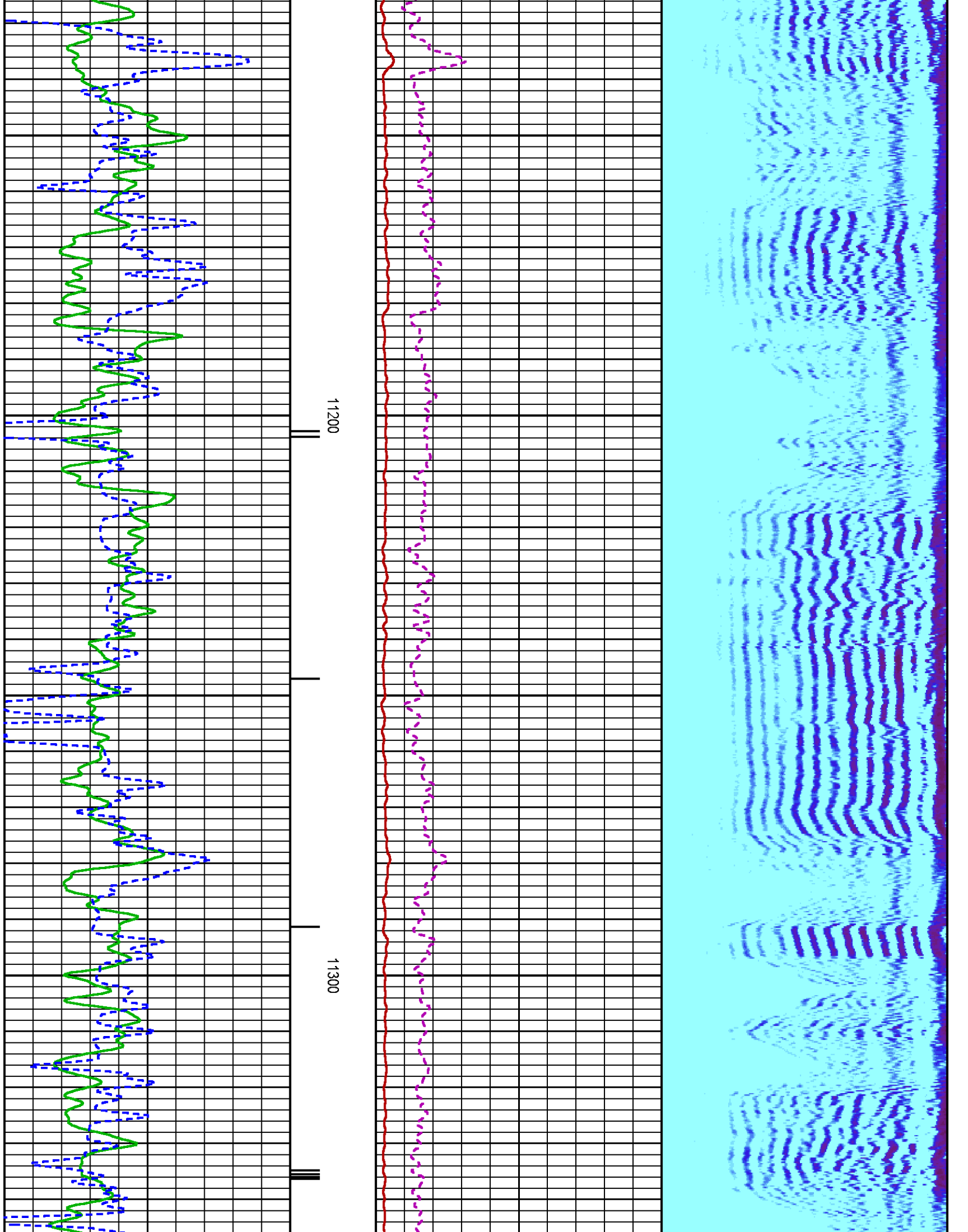


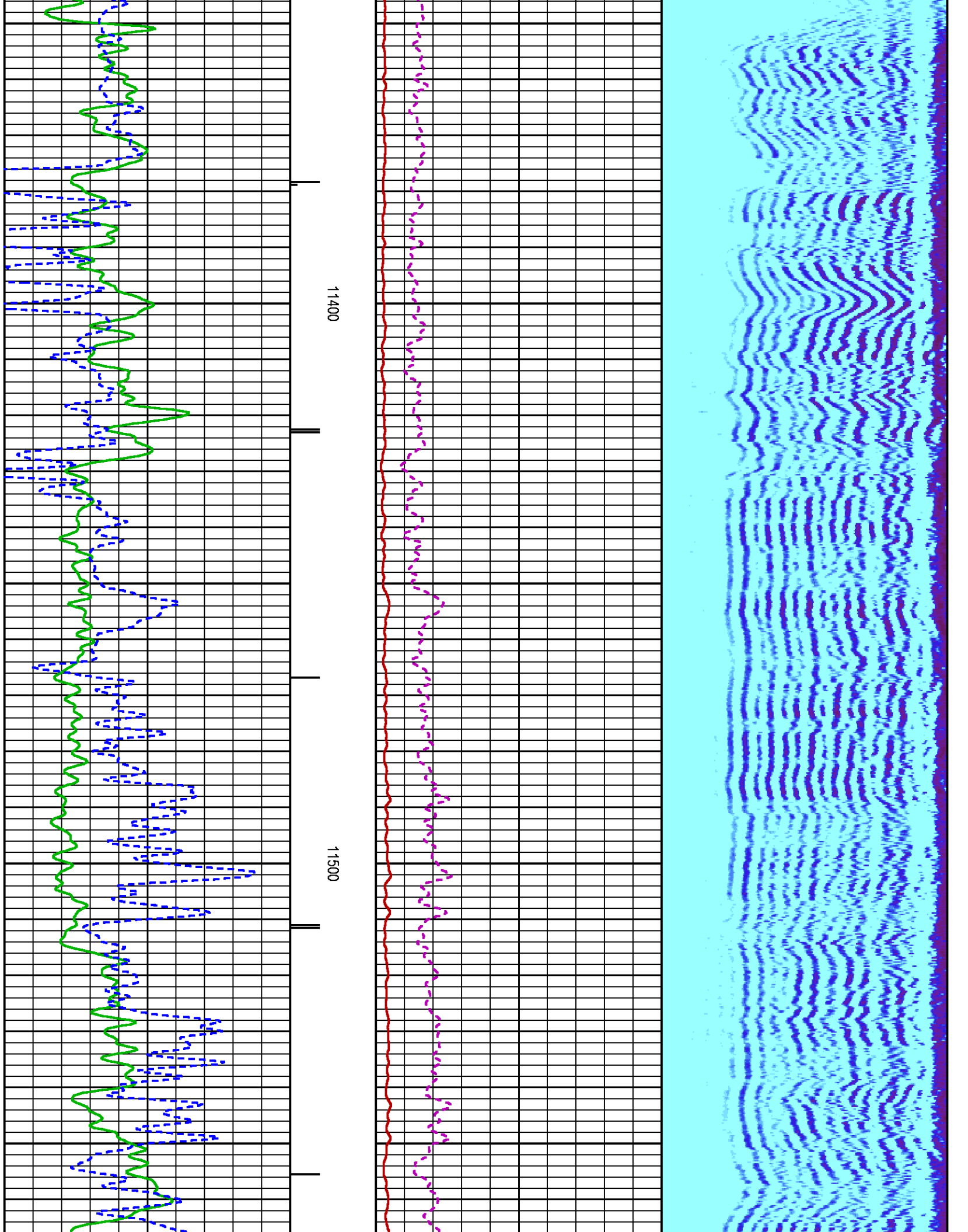


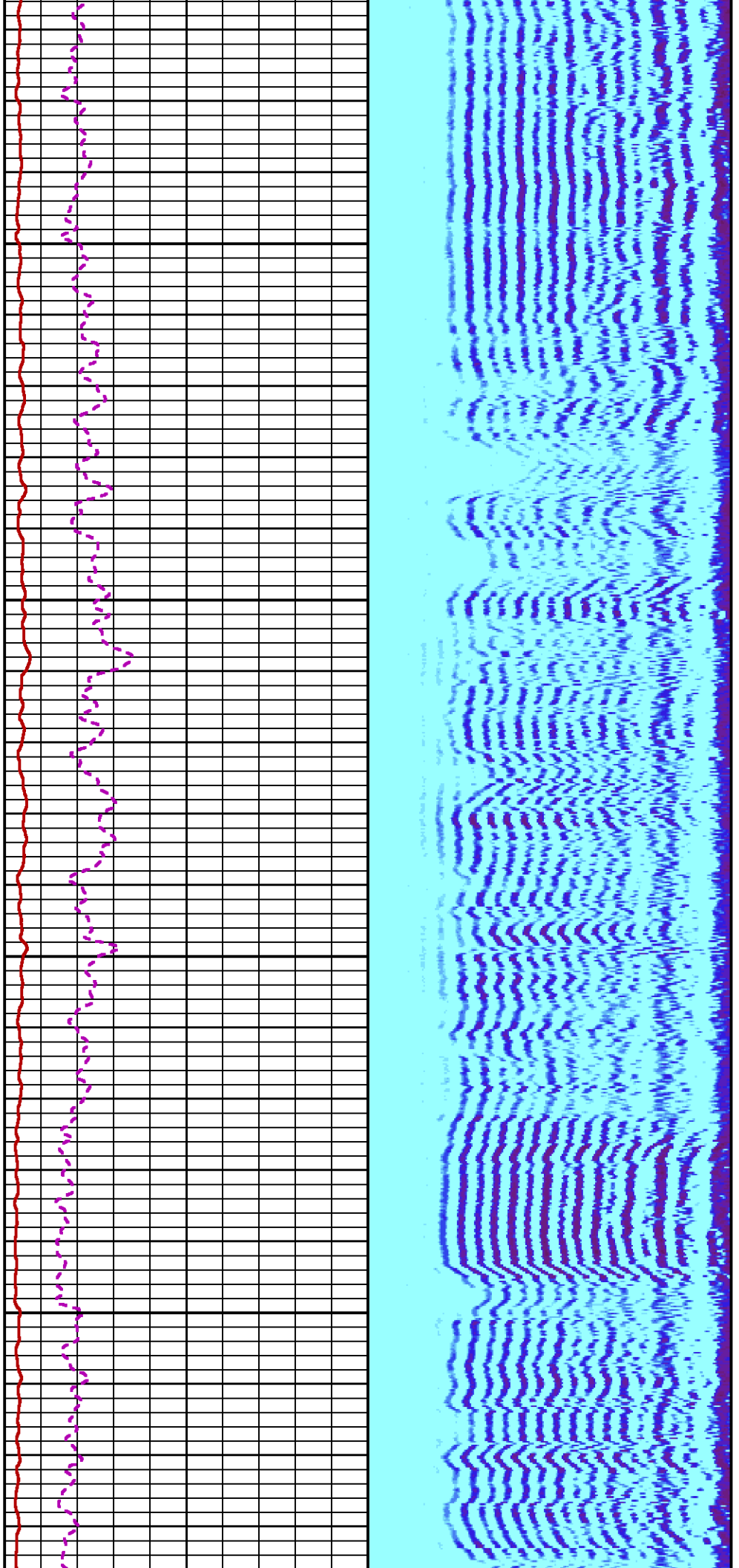






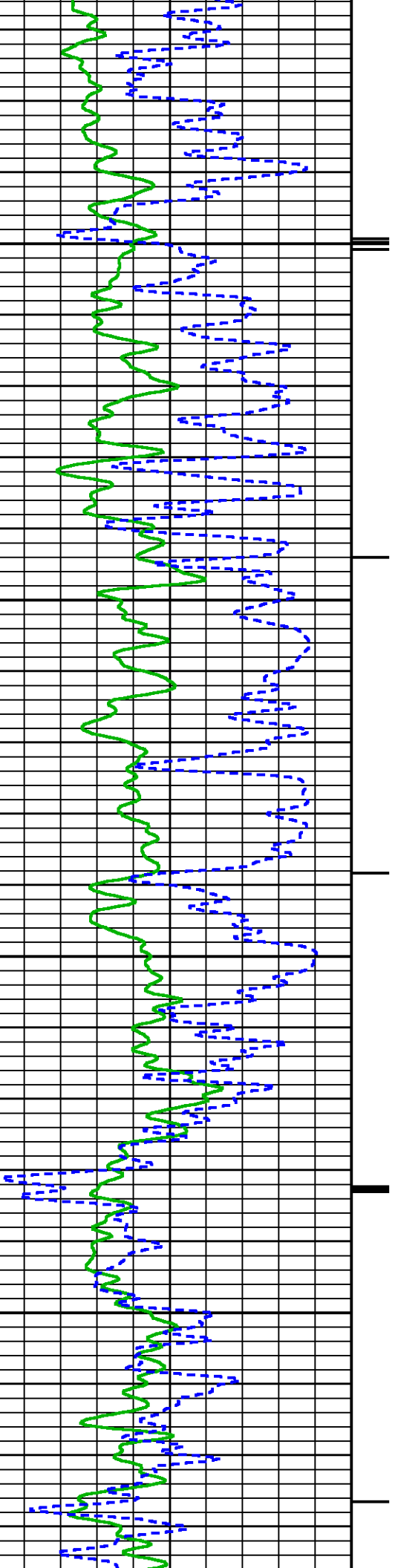


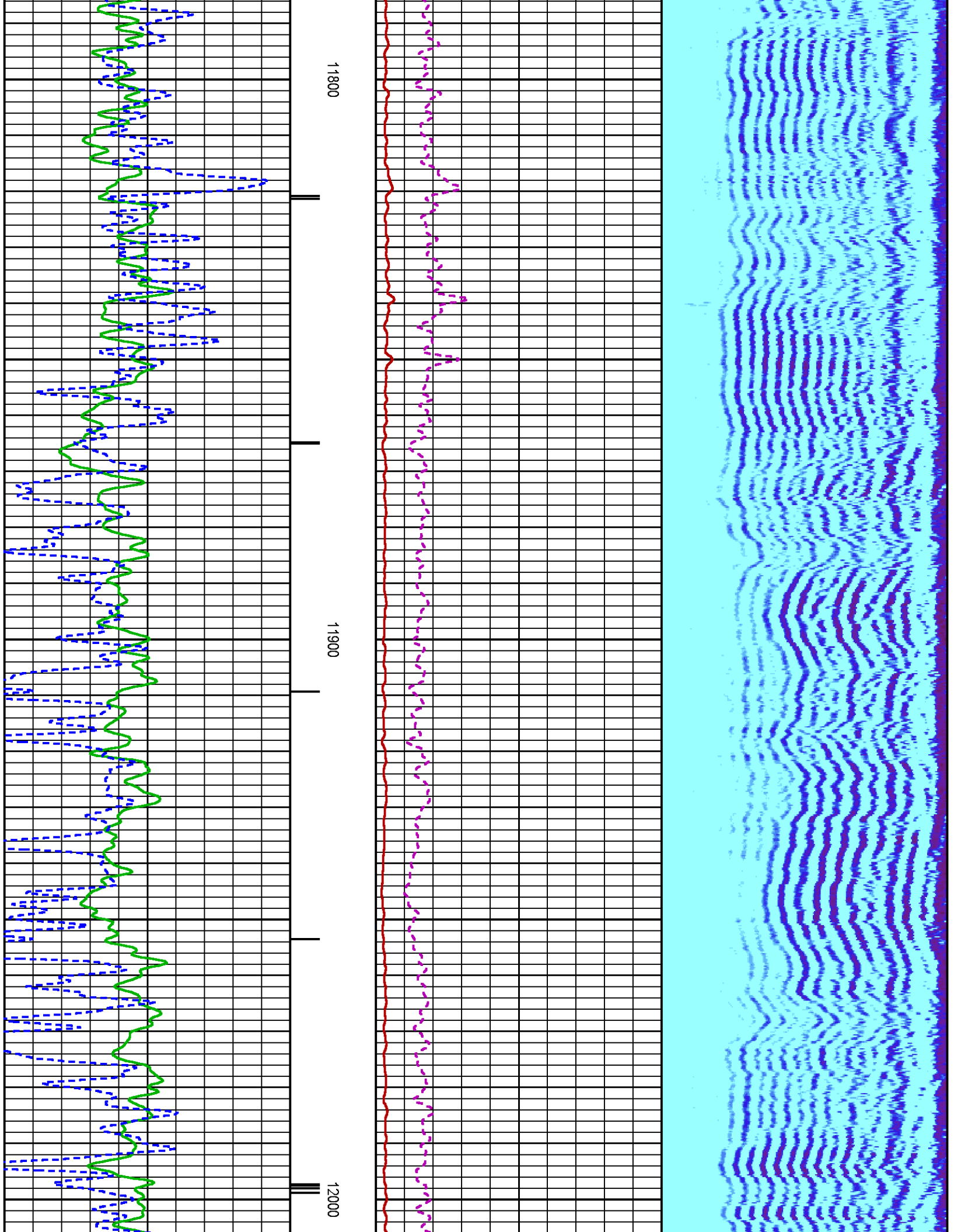


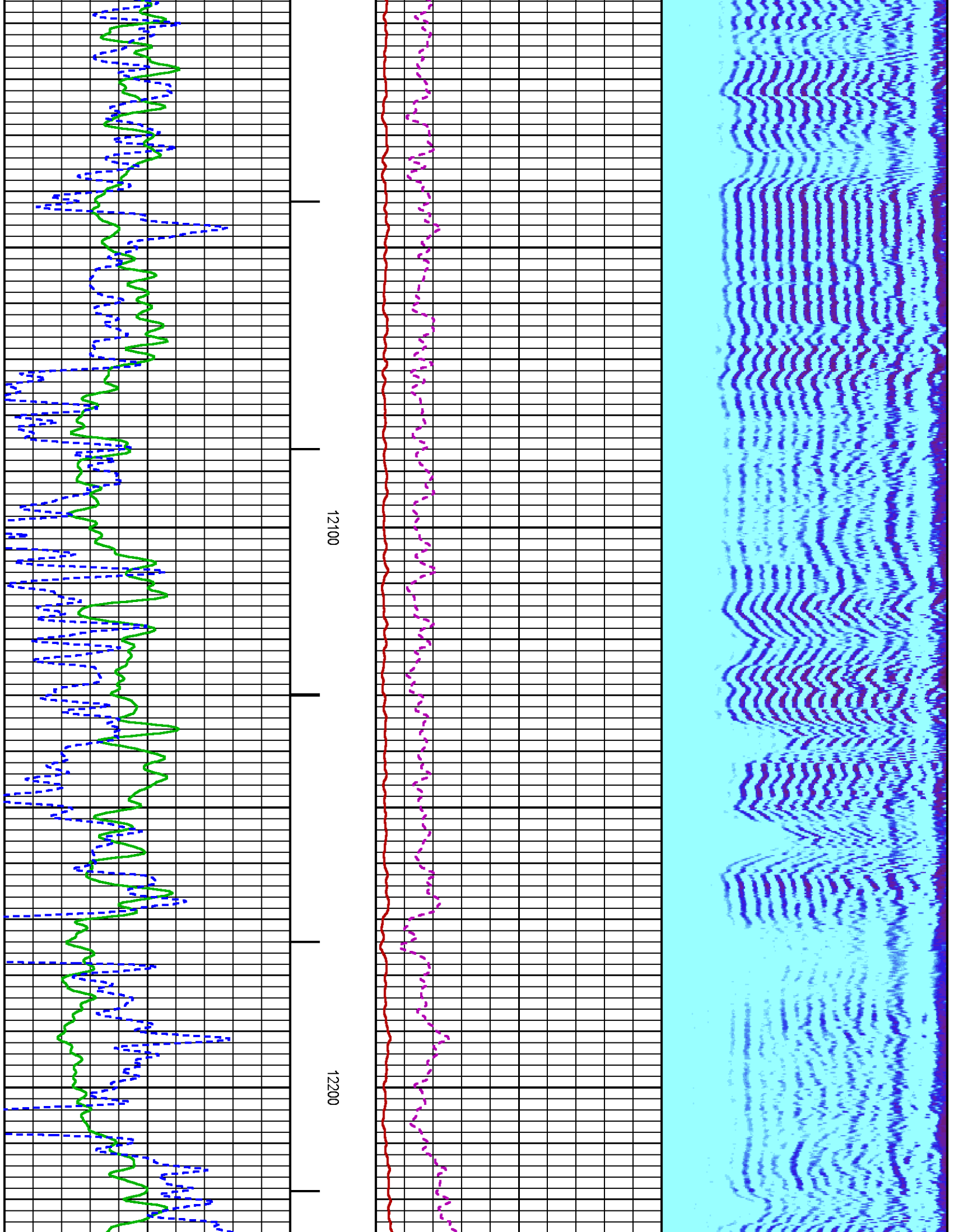


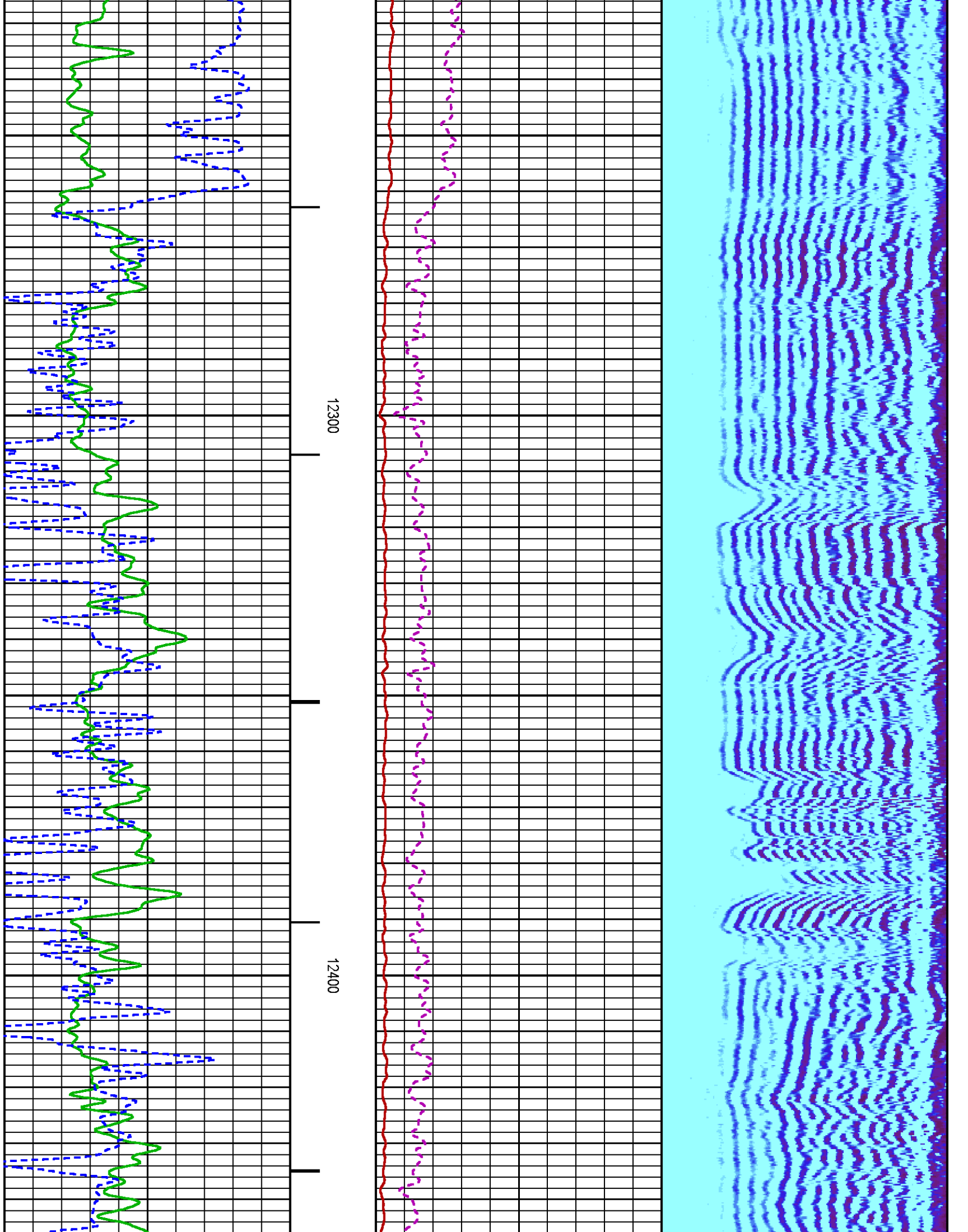
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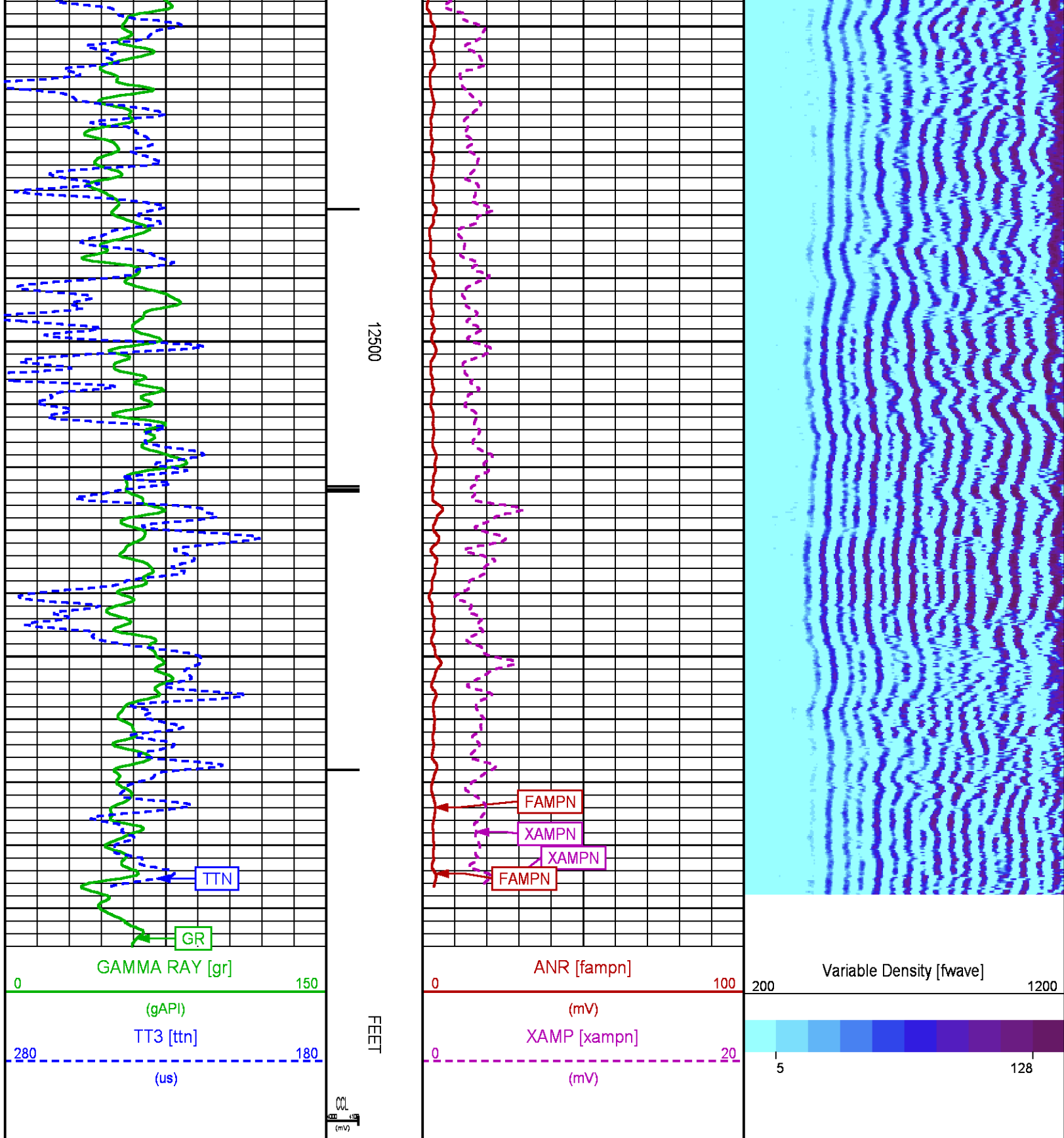
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REPEAT LOG 0 PSI

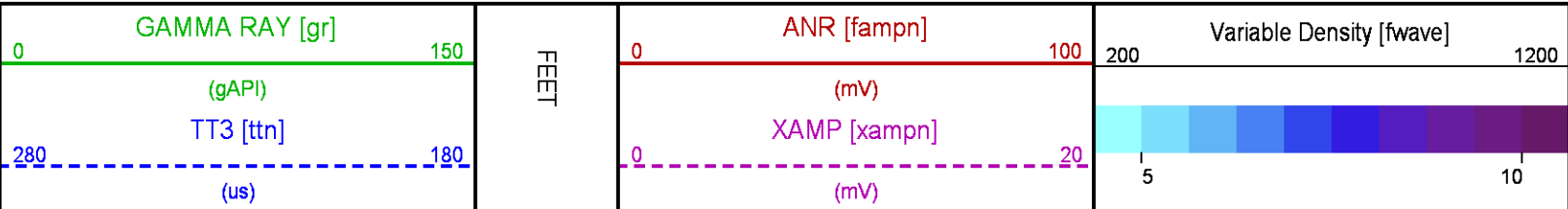
Plotted: Sat Dec 13 11:22:03 2014

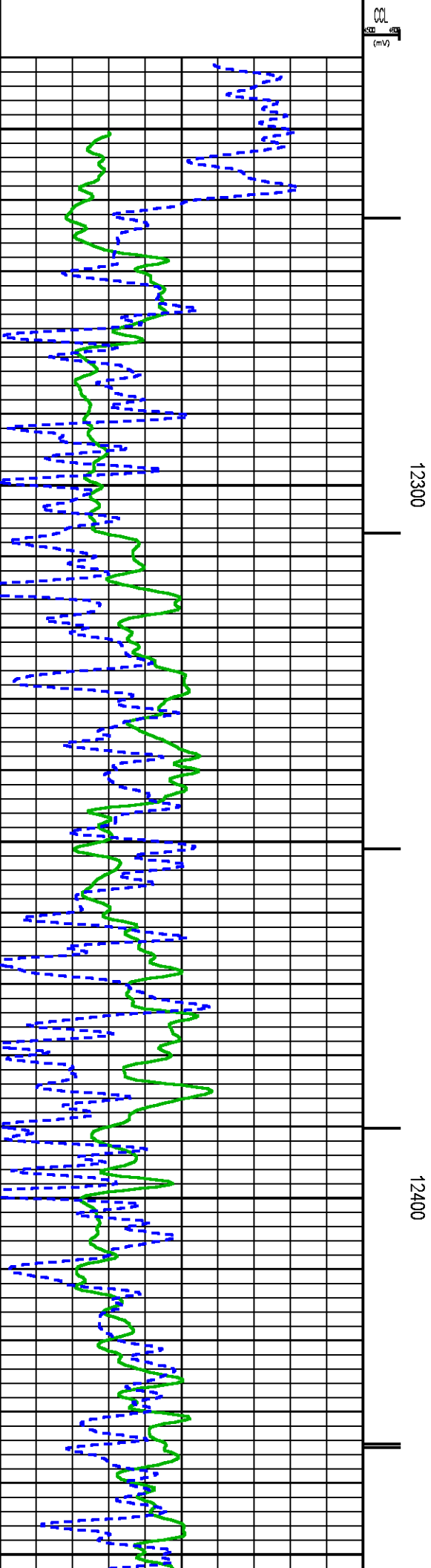
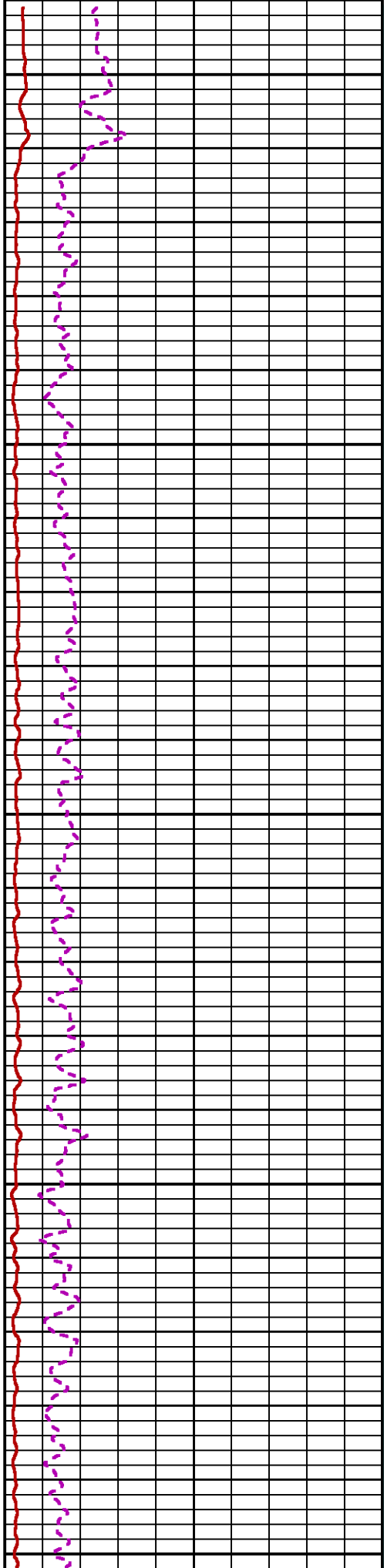
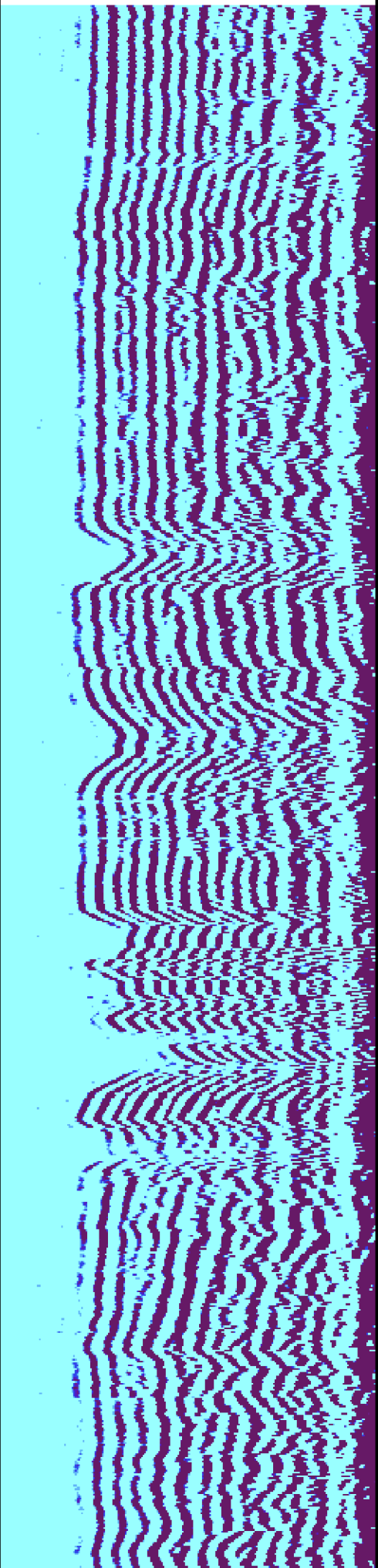
PARAMETER AND FILTER SUMMARY REPORT					
FILE: C:\dat1a\092551\012g01.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 12241.000 ft BOTTOM DEPTH: 12582.750 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1) light (2a)		TOP 12458.250	BOTTOM
TRAVEL TIME	FILTER ()	medium (1)		TOP	BOTTOM
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*)	171	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	"	"

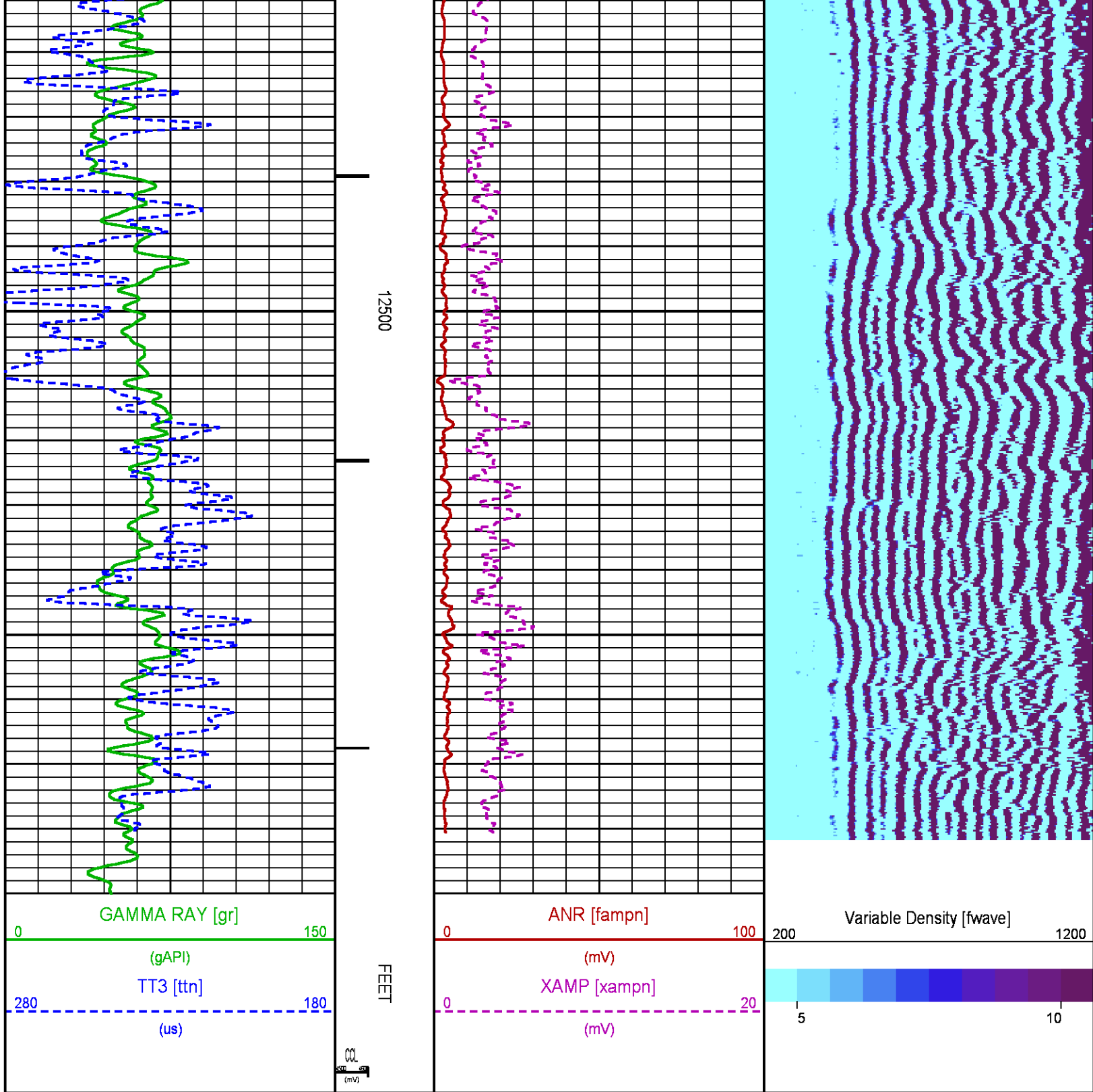
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 12 17:23:26 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 12 17:23:26 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 12 17:23:26 2014	FAR WAVE FORM
F1:GR	Dec 12 17:23:26 2014	GAMMA RAY
F1:TTN	Dec 12 17:23:26 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 12 17:23:26 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	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation	: BHUGHES-06627:C:\dat1a\092551\444_CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 12240.8 - 12591.5 Feet
Data File 1	: F1 : BHUGHES-06627:C:\dat1a\092551\444CBL_REPEAT.xtf
Created On	: Dec 12 17:23:26 2014
Company	: WPX ENERGY
Well	: FEDERAL RGU 444-23-198
Field	: SULPHUR CREEK
File Interval	: 12239.8 - 12593 Feet
OCT	: n012g







SECONDARY PRESENTATION 0 PSI

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\data\1a\092551\1n012g02.prm

LOGGING MODE: DEPTH DIRECTION: UP

TOP DEPTH: 29.250 ft BOTTOM DEPTH: 12589.000 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*)	171	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	"	"

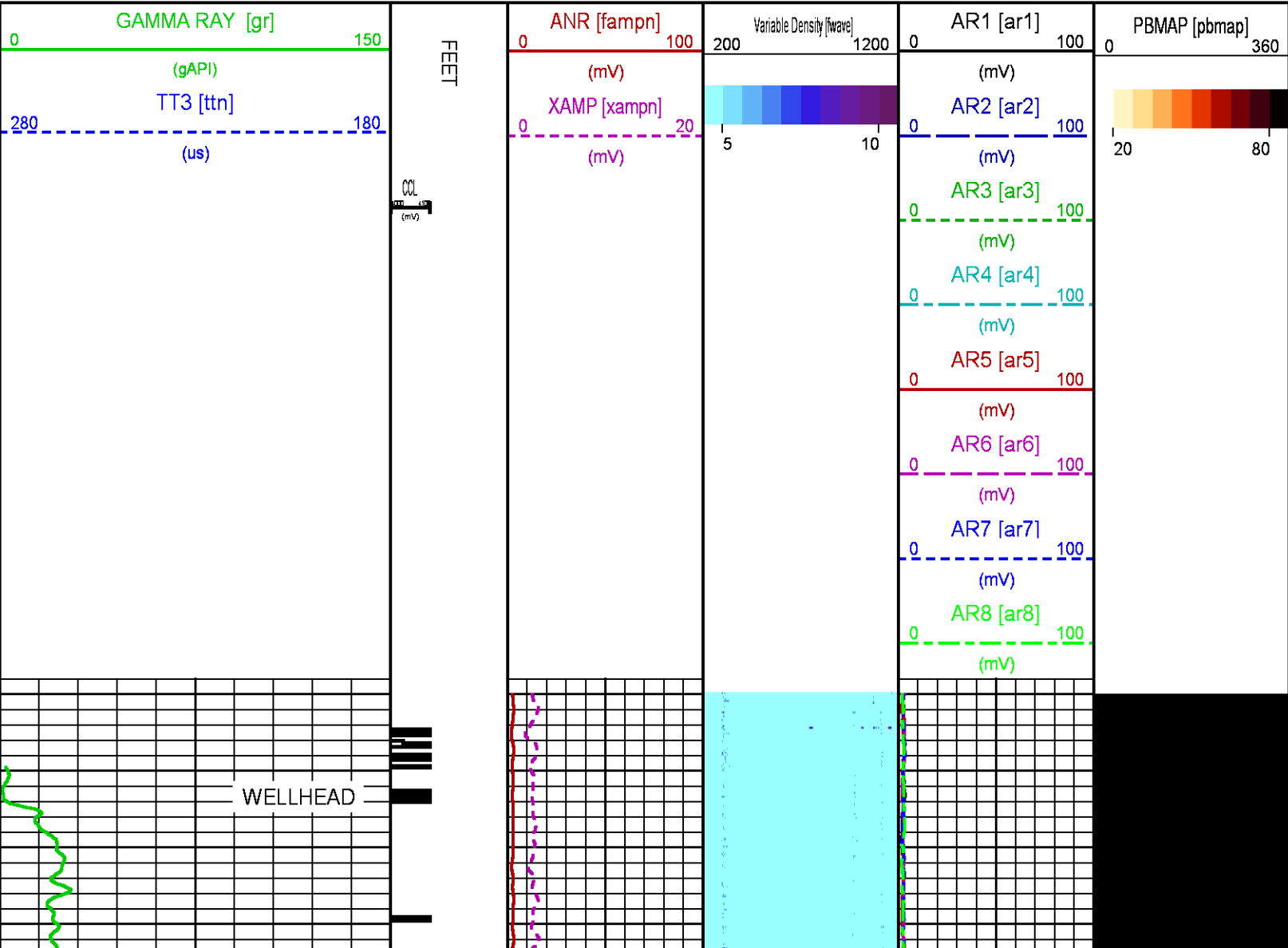
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE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

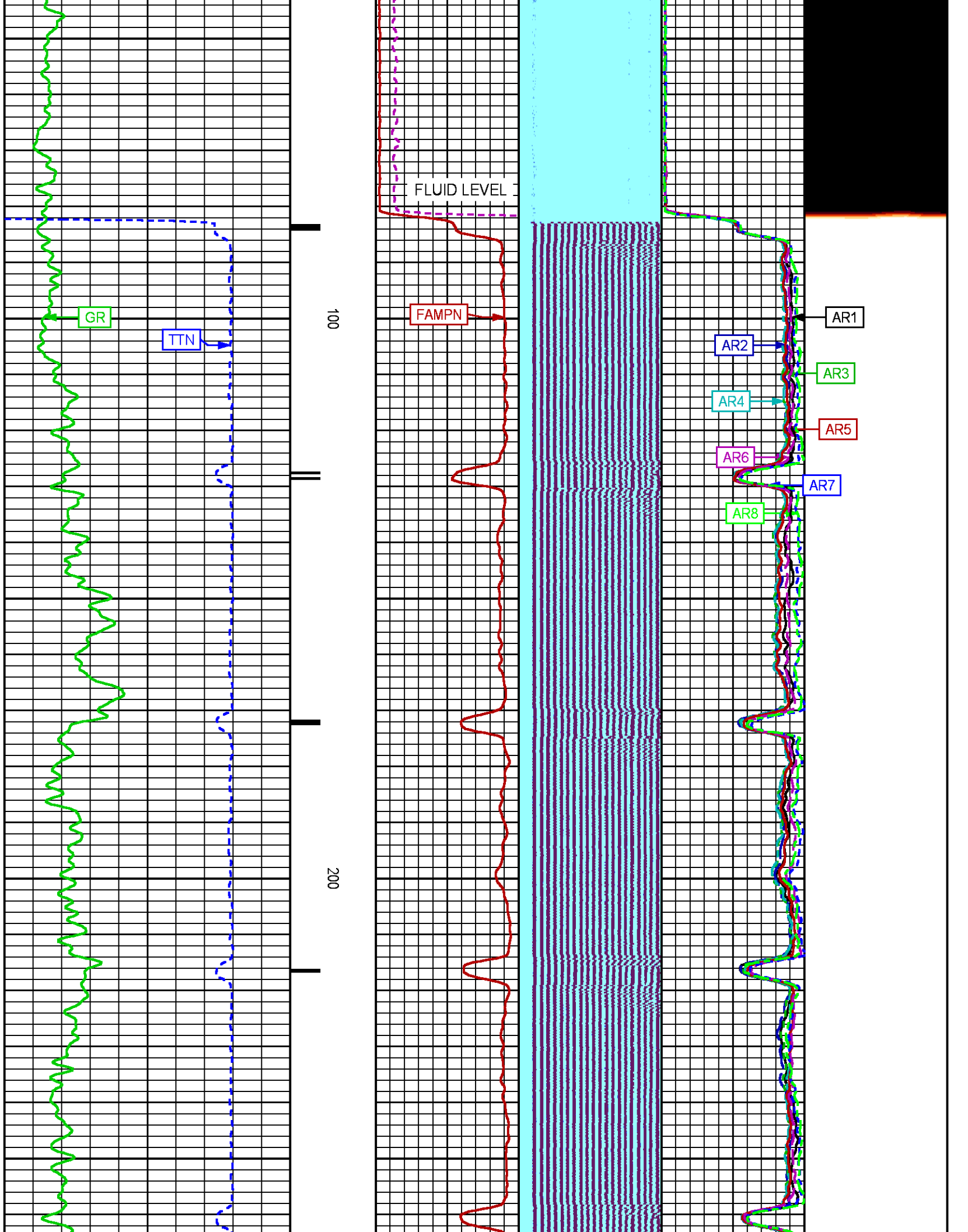
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R3

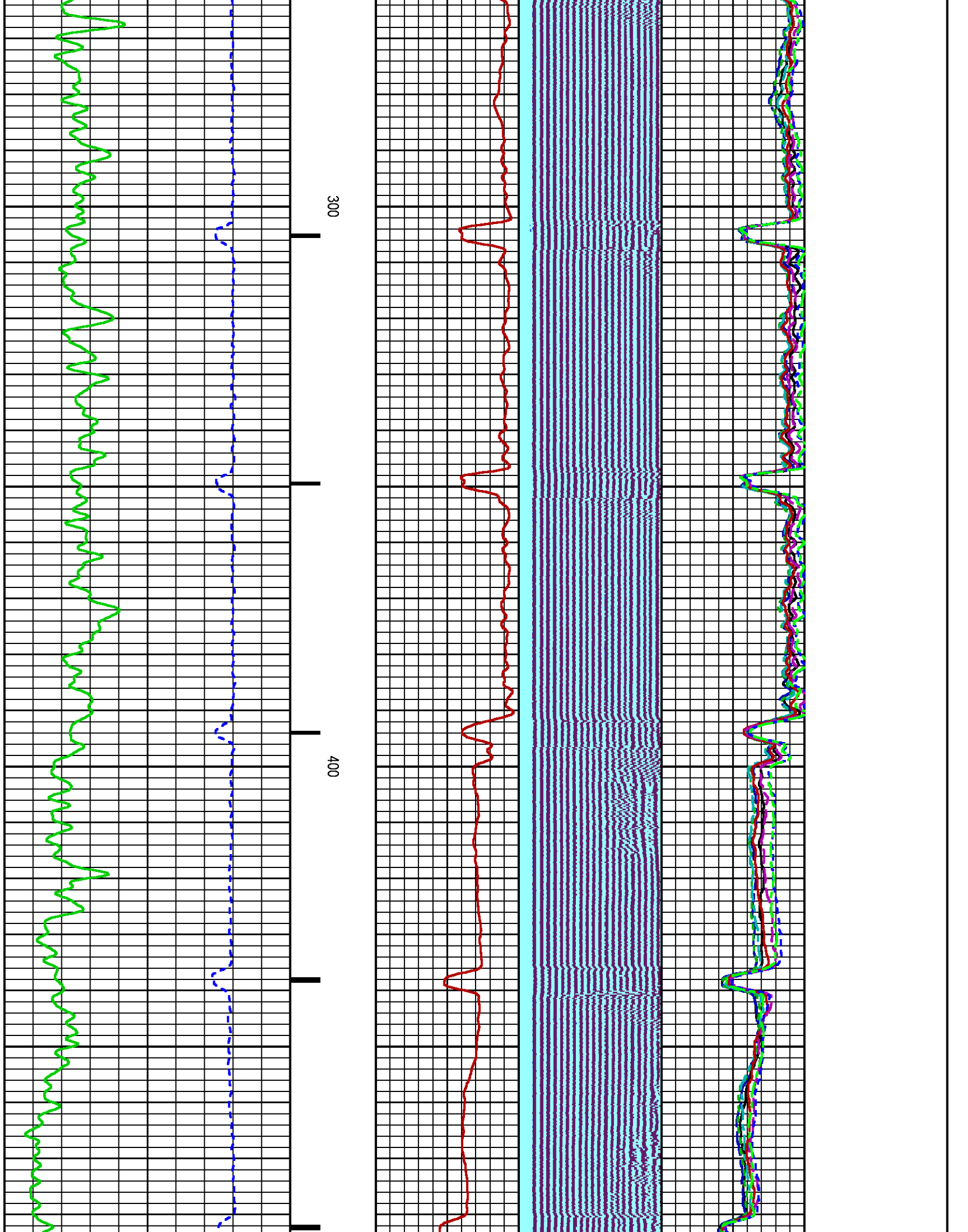
F1:AR3	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Dec 13 10:50:32 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 13 10:50:32 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 13 10:50:33 2014	FAR WAVE FORM
F1:GR	Dec 13 10:50:33 2014	GAMMA RAY
F1:PBMAP	Dec 13 10:50:33 2014	PERCENT BOND CEMENT MAP
F1:TTN	Dec 13 10:50:33 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 13 10:50:33 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

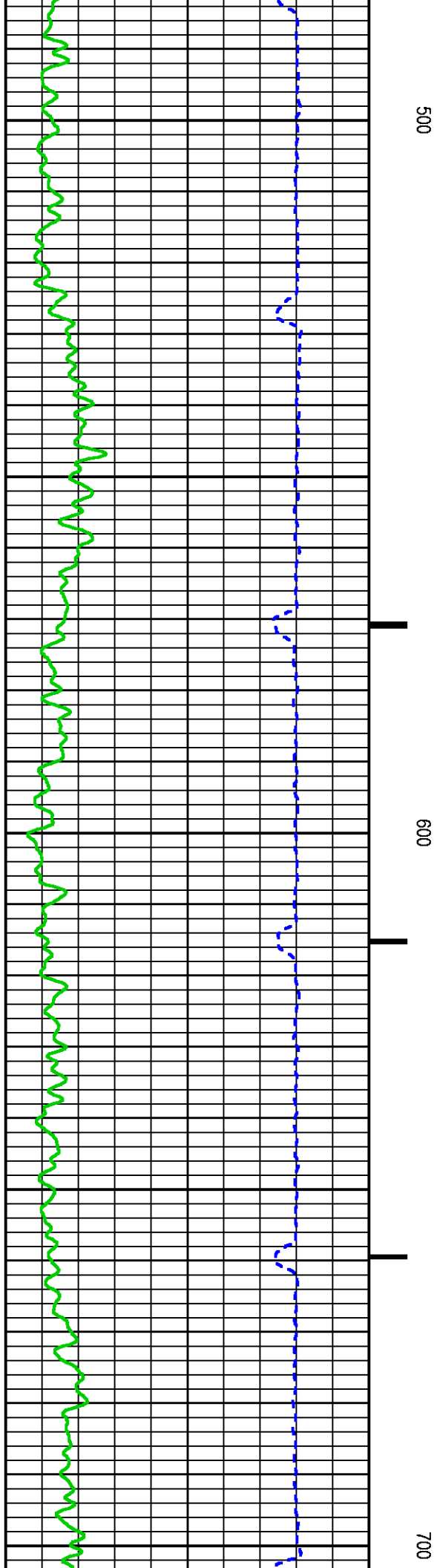
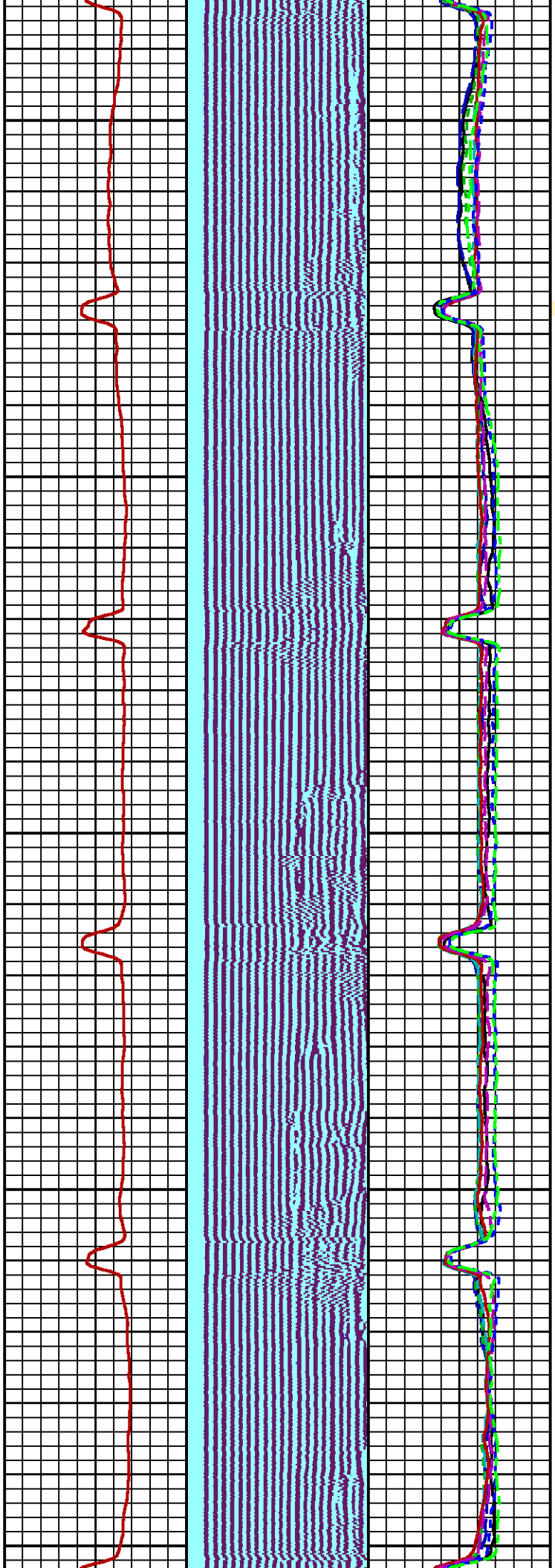
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

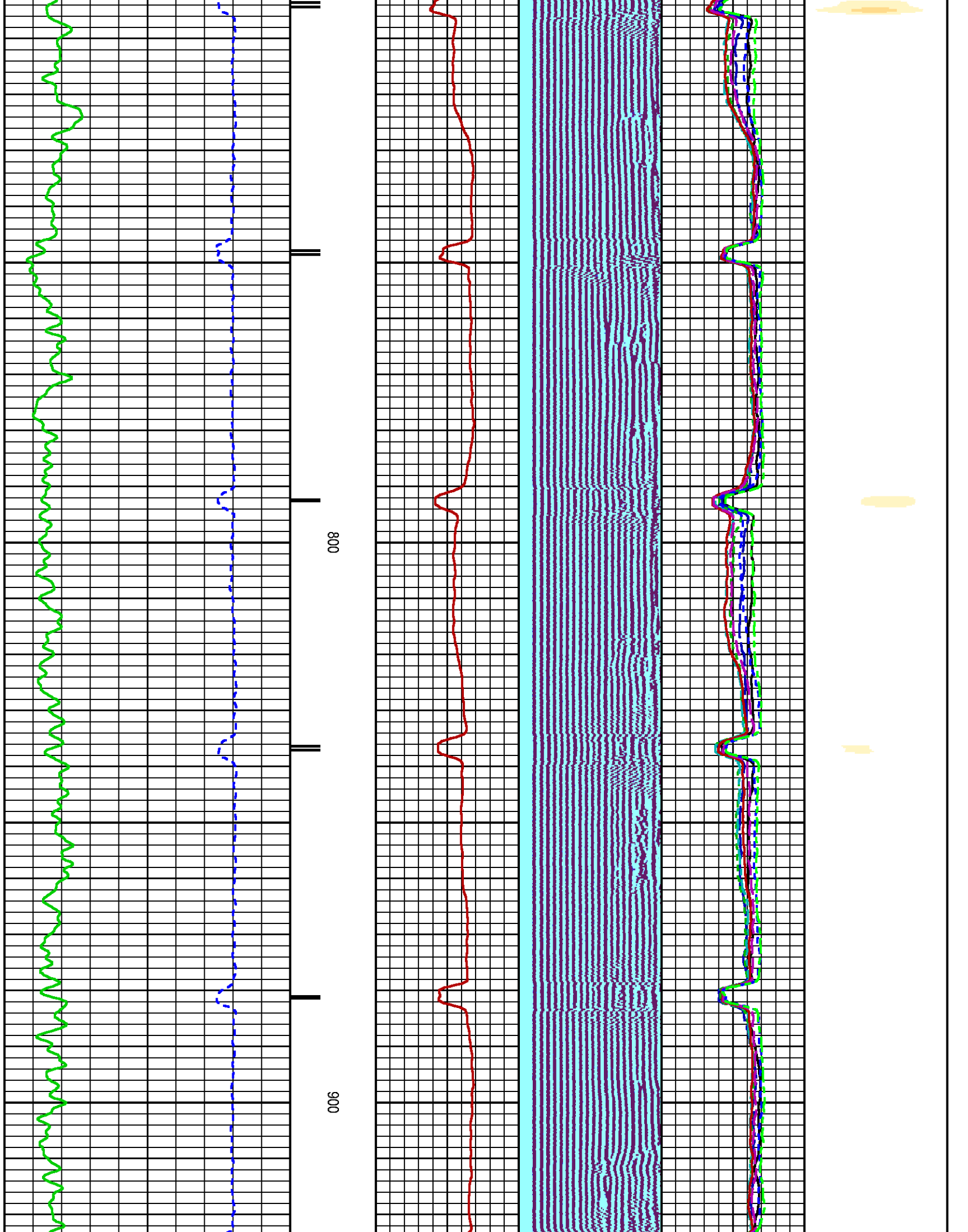
Presentation	: BHUGHES-06627:C:\dat1a\092551\444_CBL_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval	: 9.75 - 12600 Feet
Data File 1	: F1 : BHUGHES-06627:C:\dat1a\092551\444CBL_MAIN.txtf
Created On	: Dec 13 10:50:32 2014
Company	: WPX ENERGY
Well	: FEDERAL RGU 444-23-198
Field	: SULPHUR CREEK
File Interval	: 8.75 - 12599 Feet
OCT	: n012g

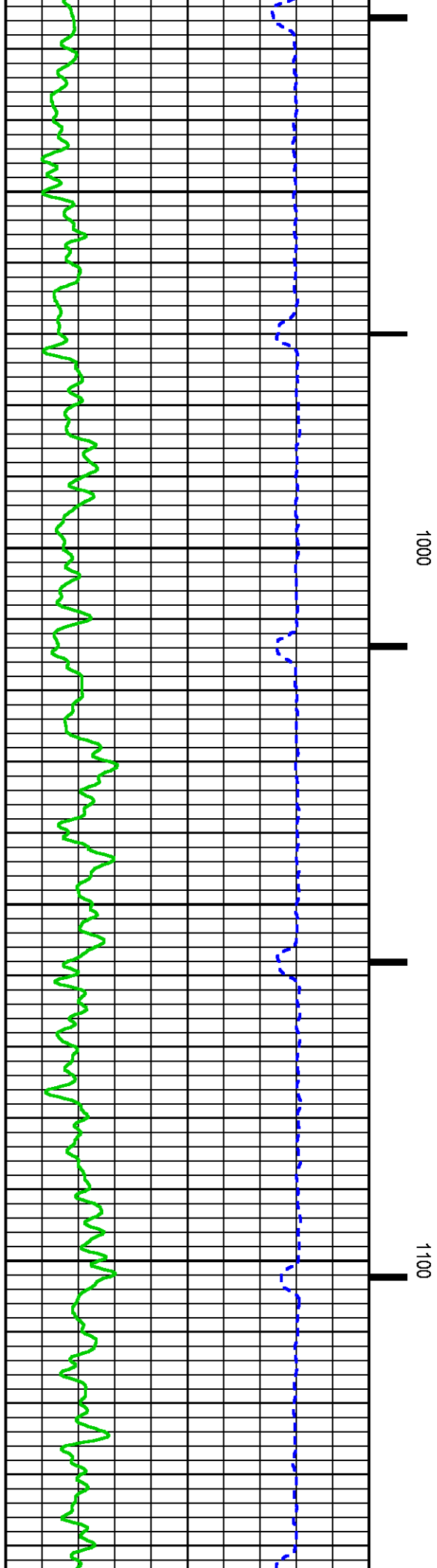
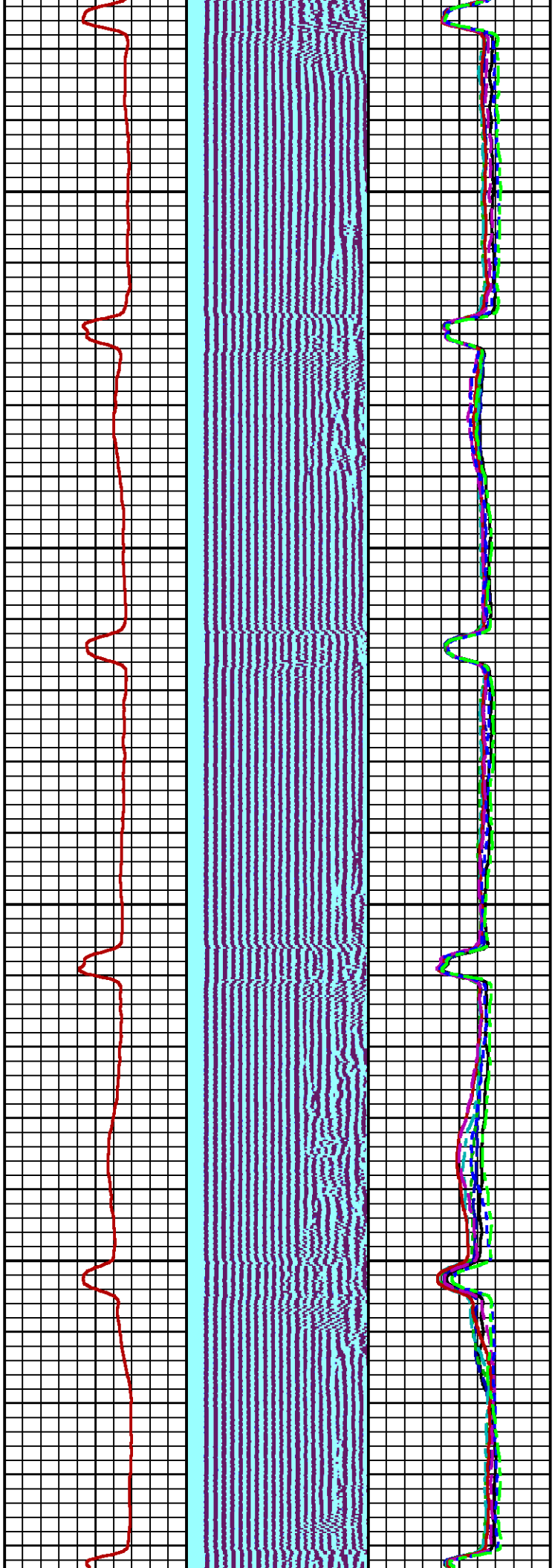


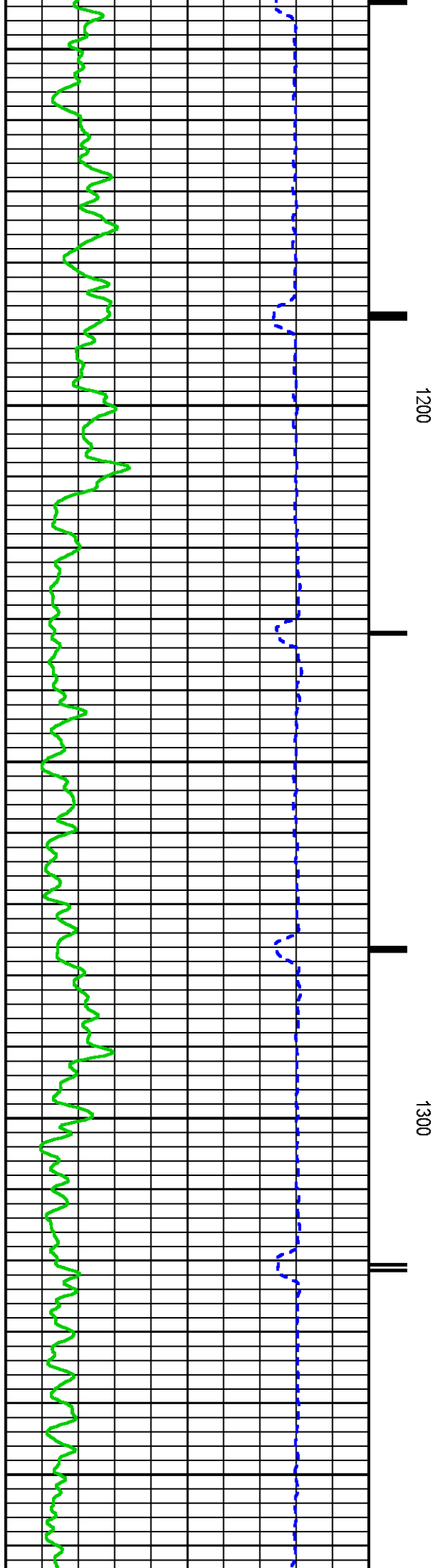
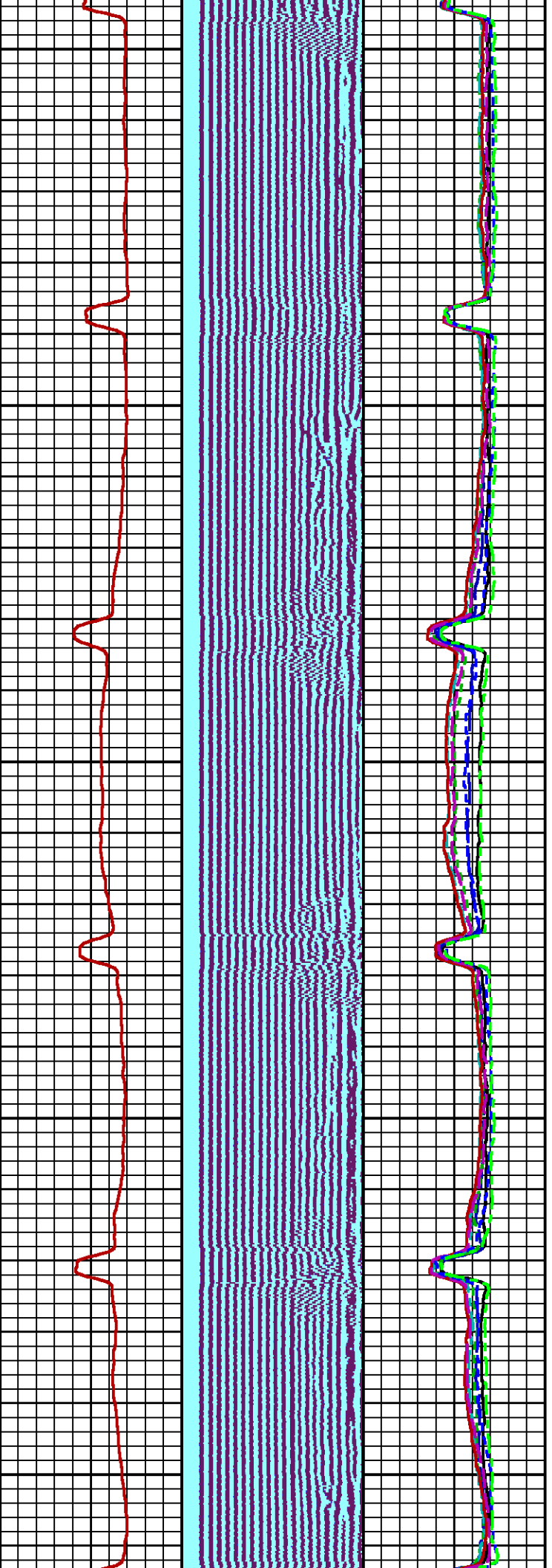


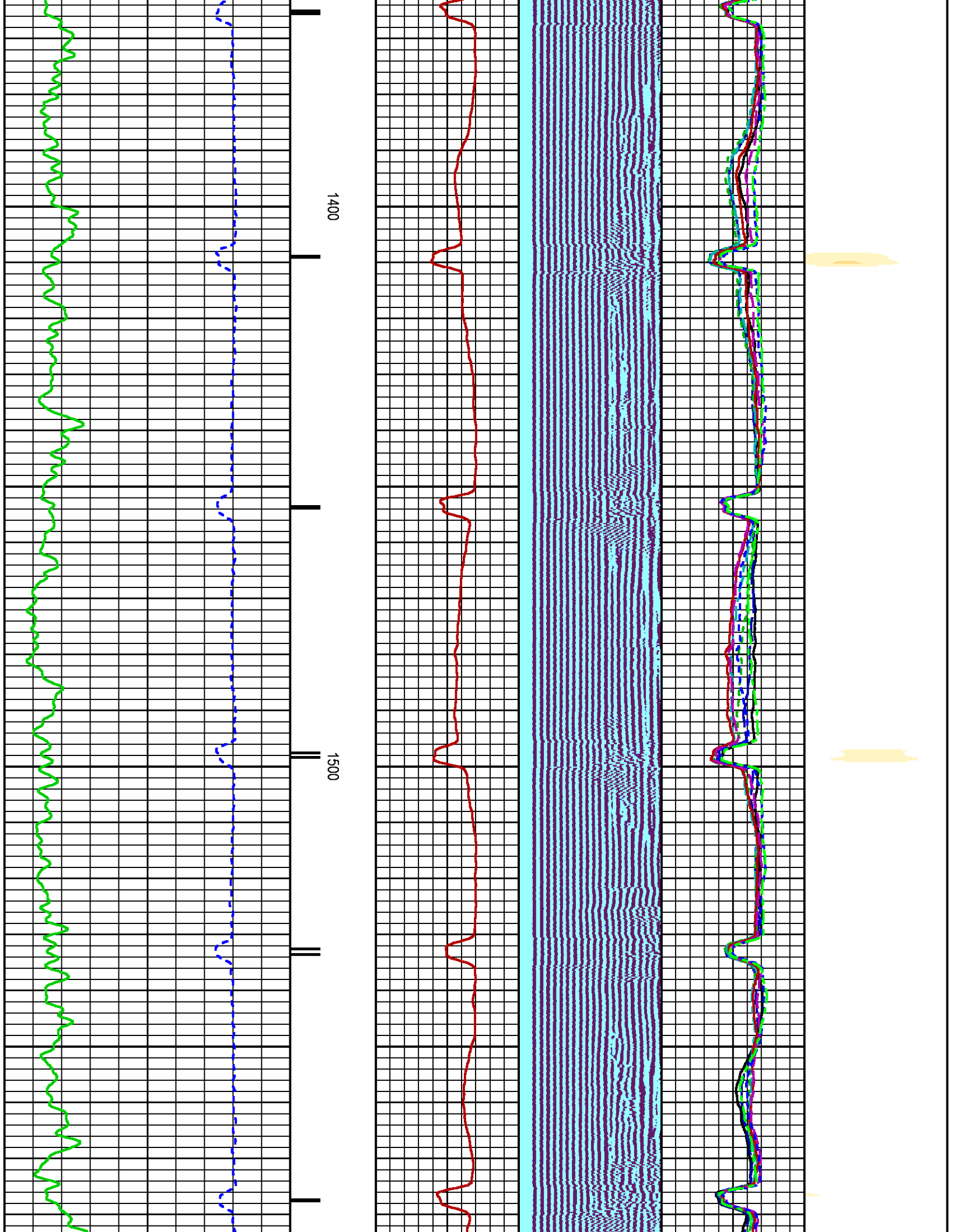


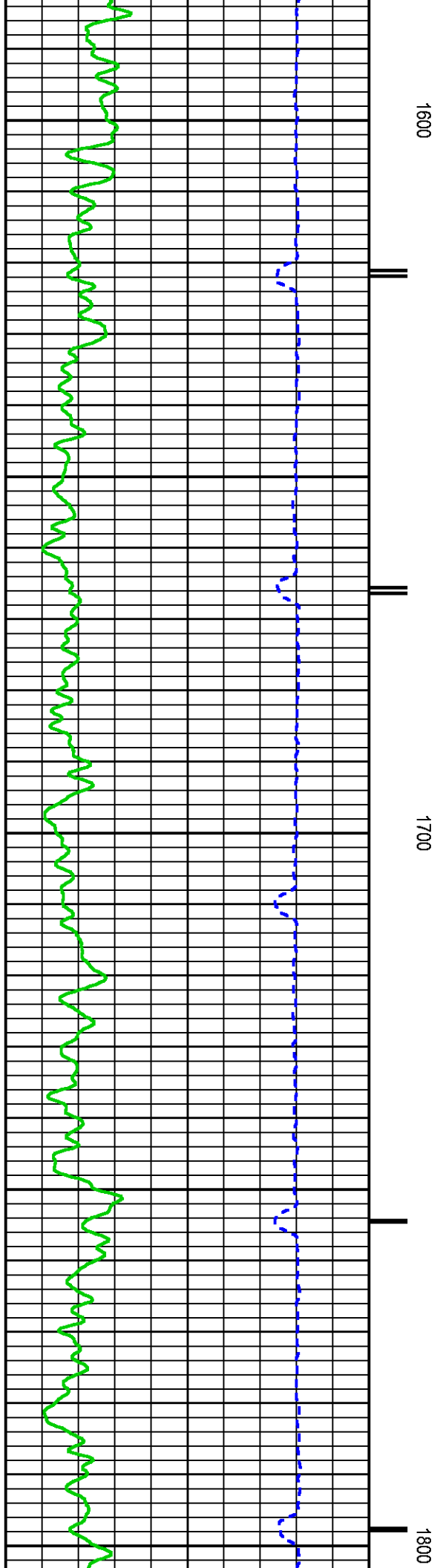
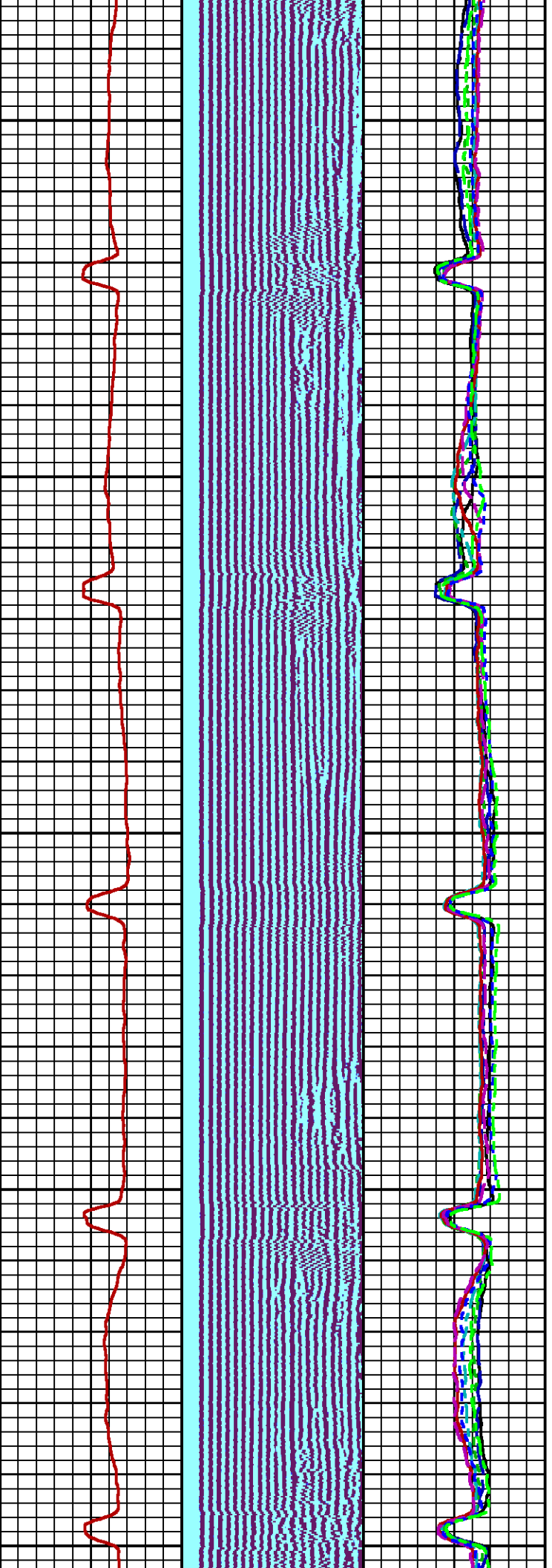


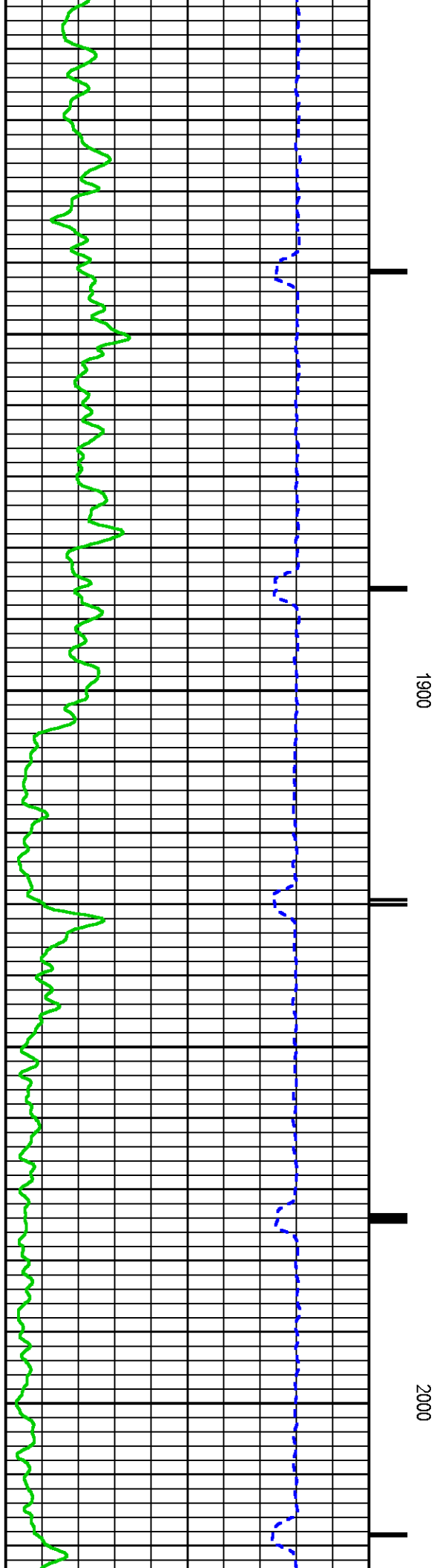
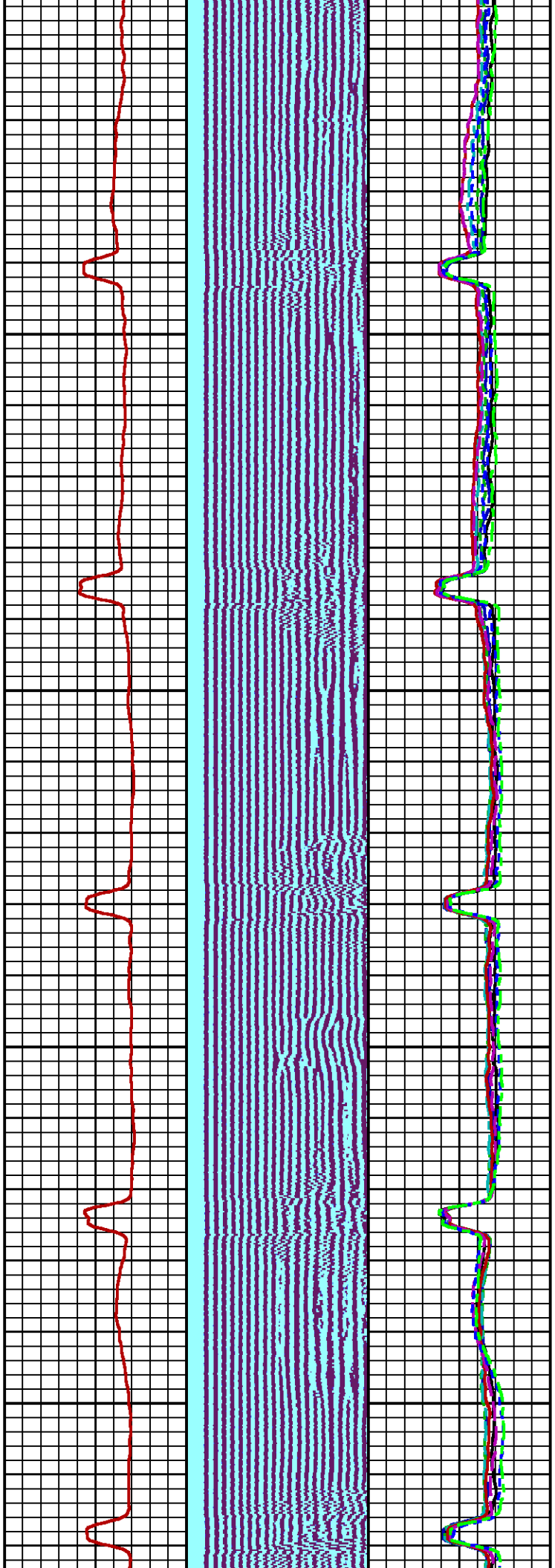


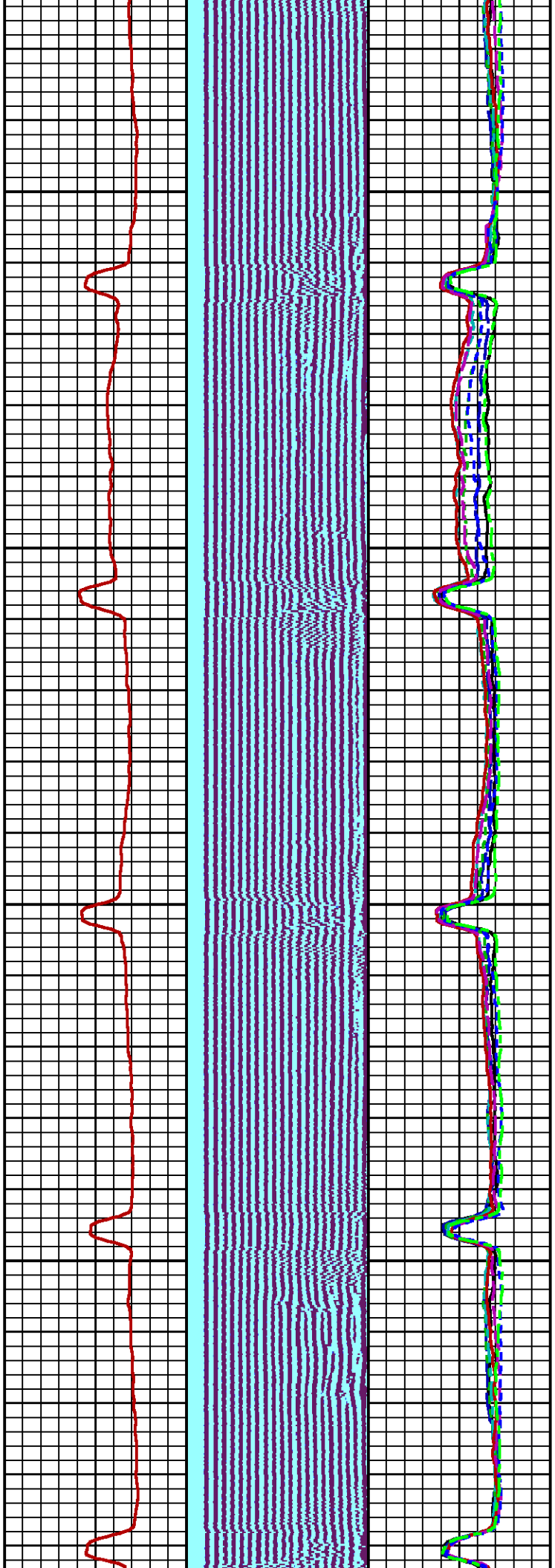






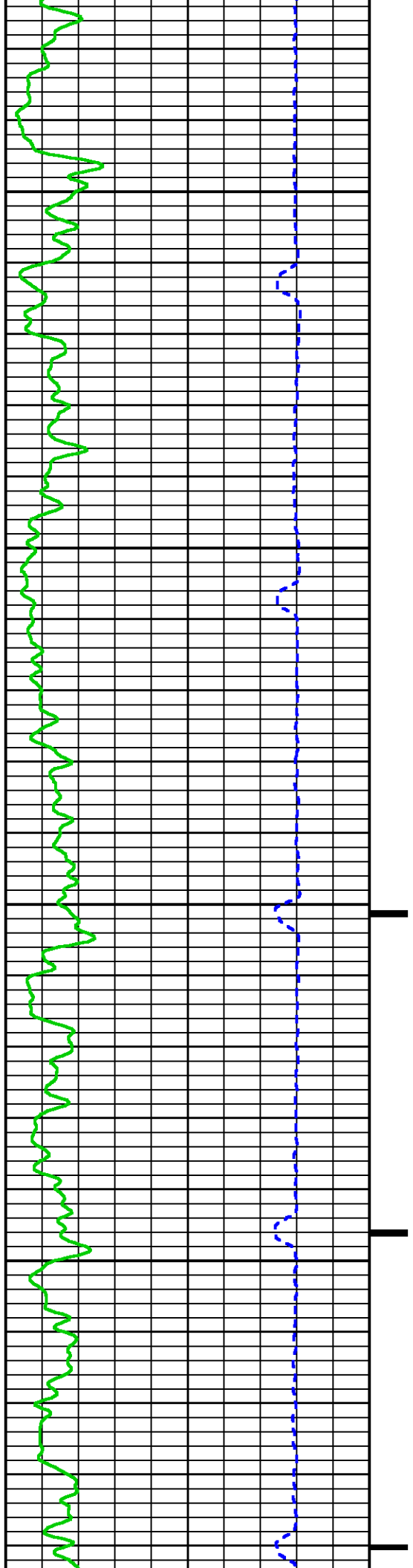


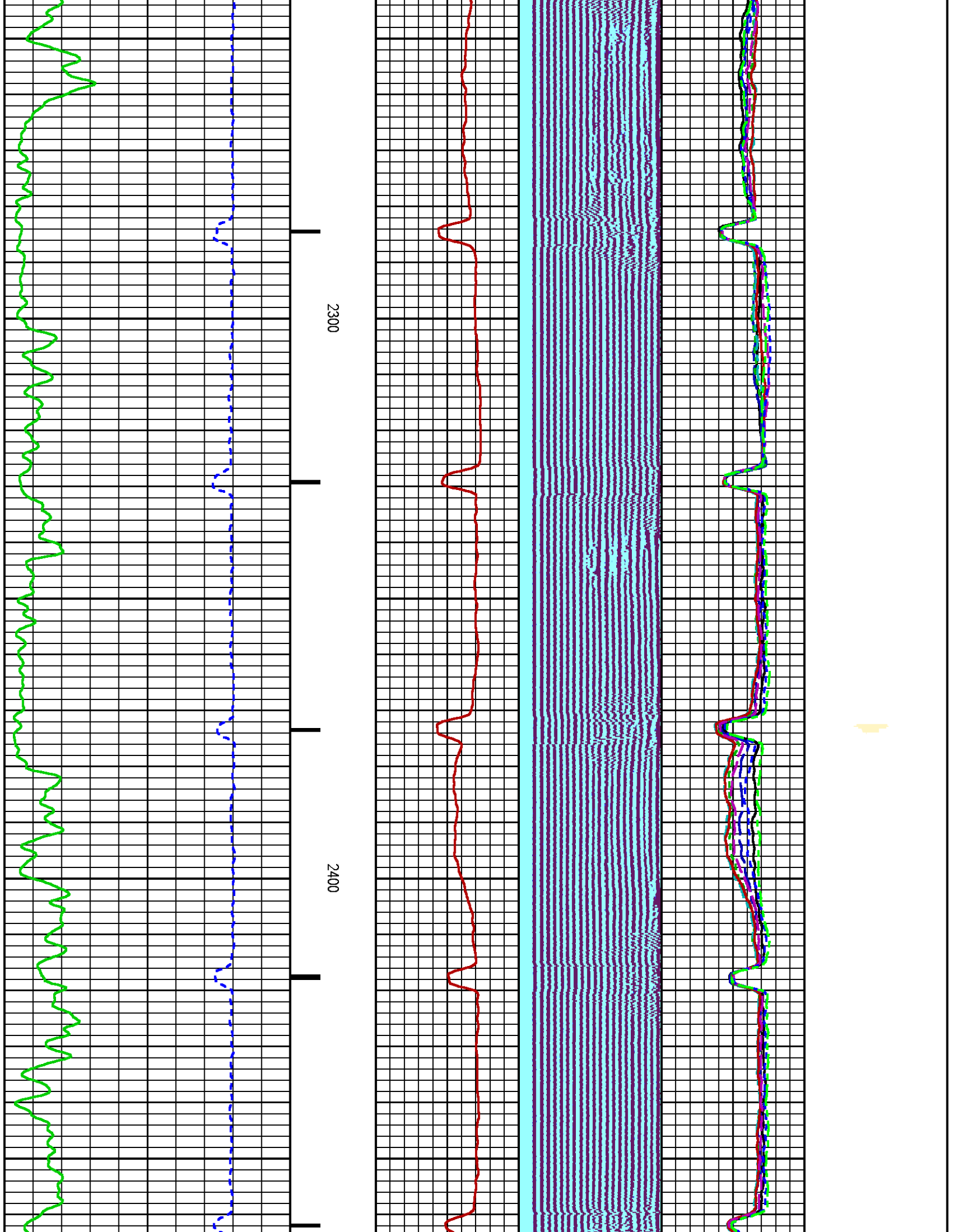


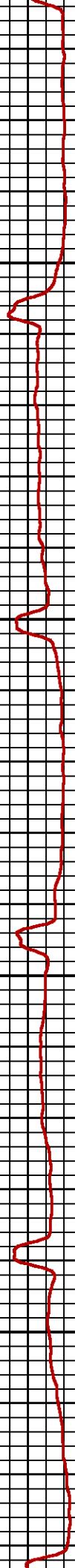
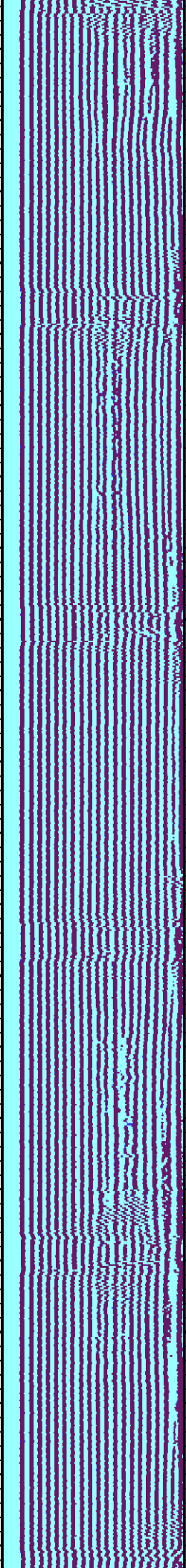
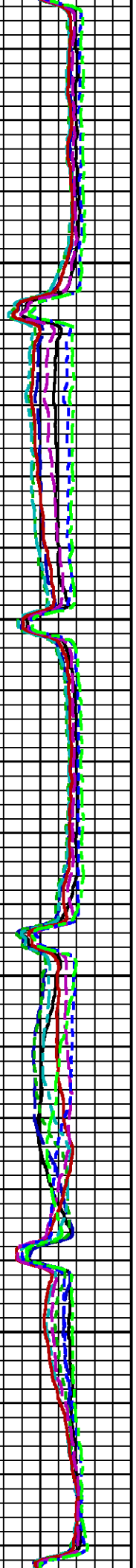


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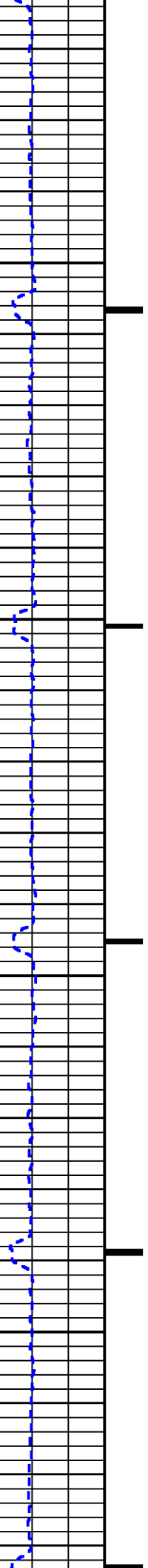


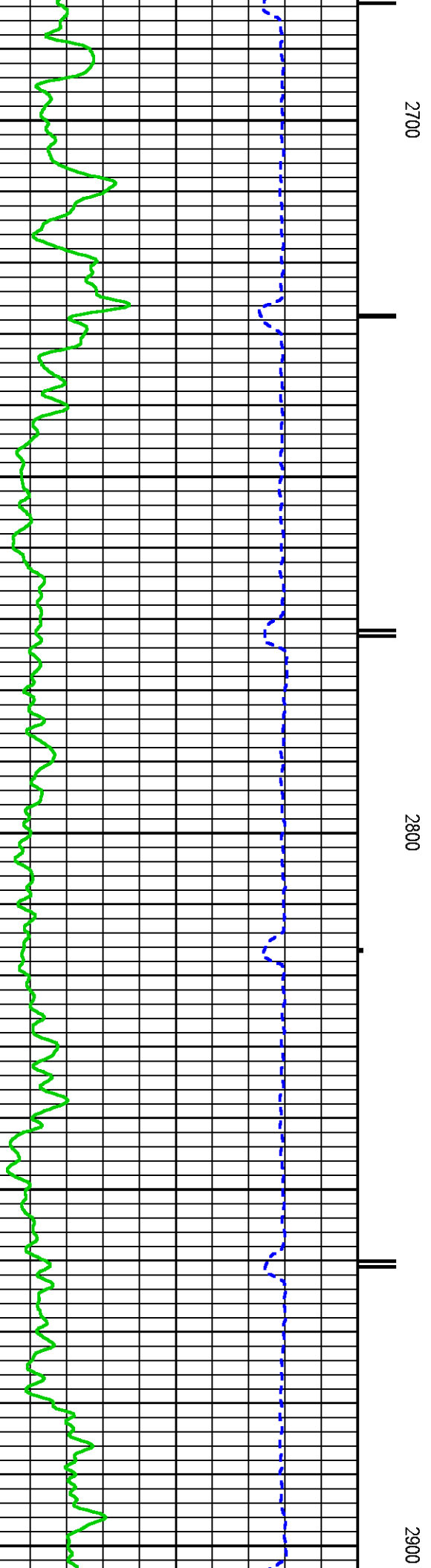
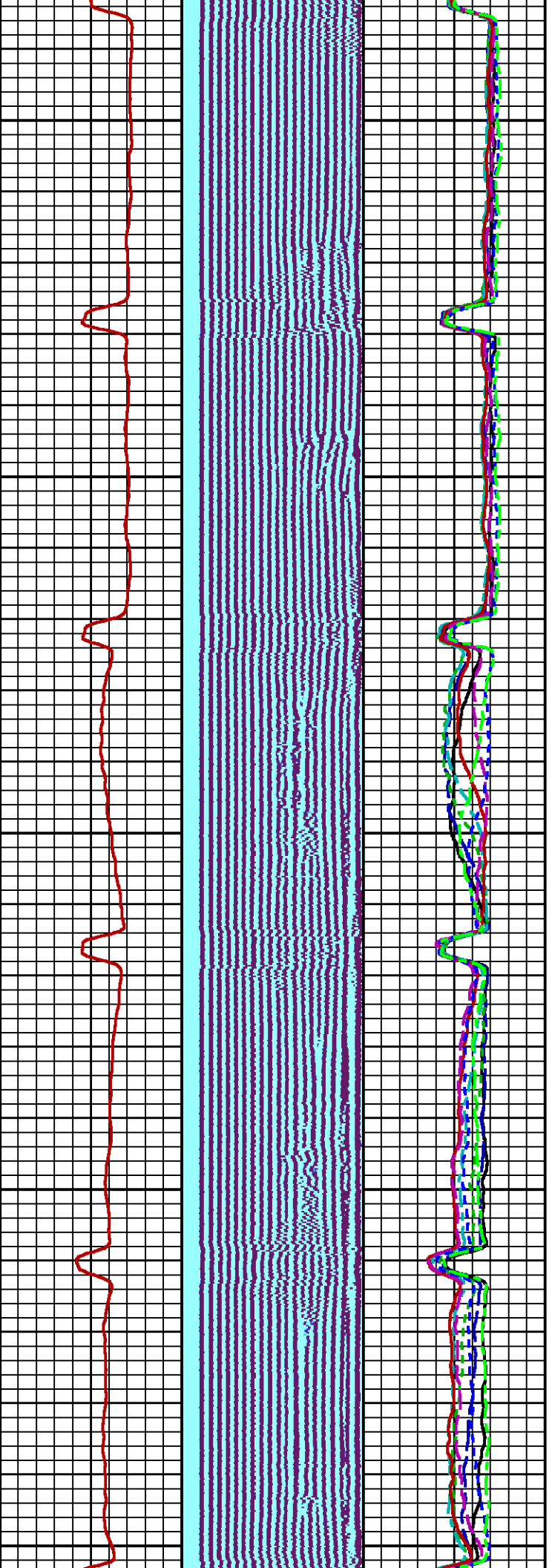


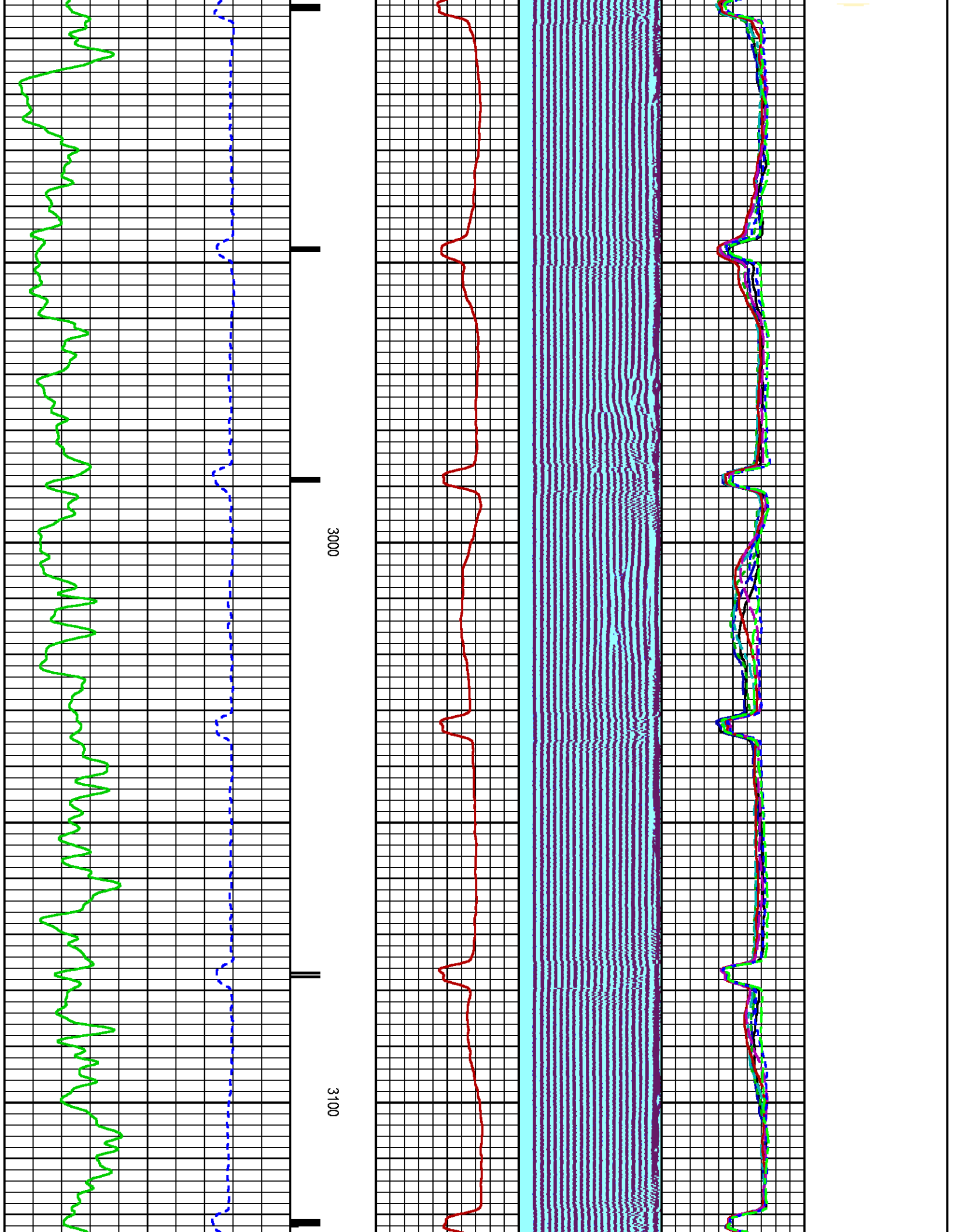


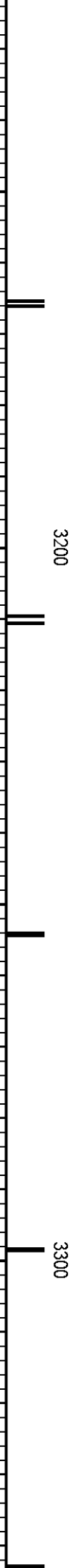
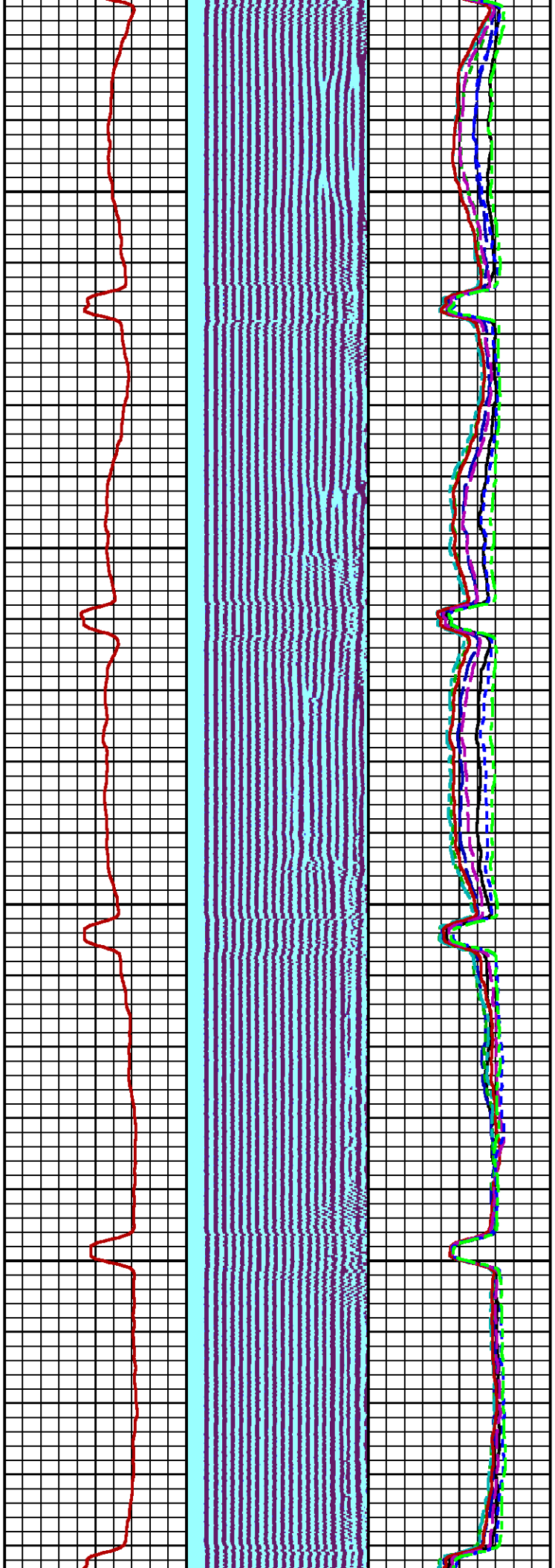
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2600





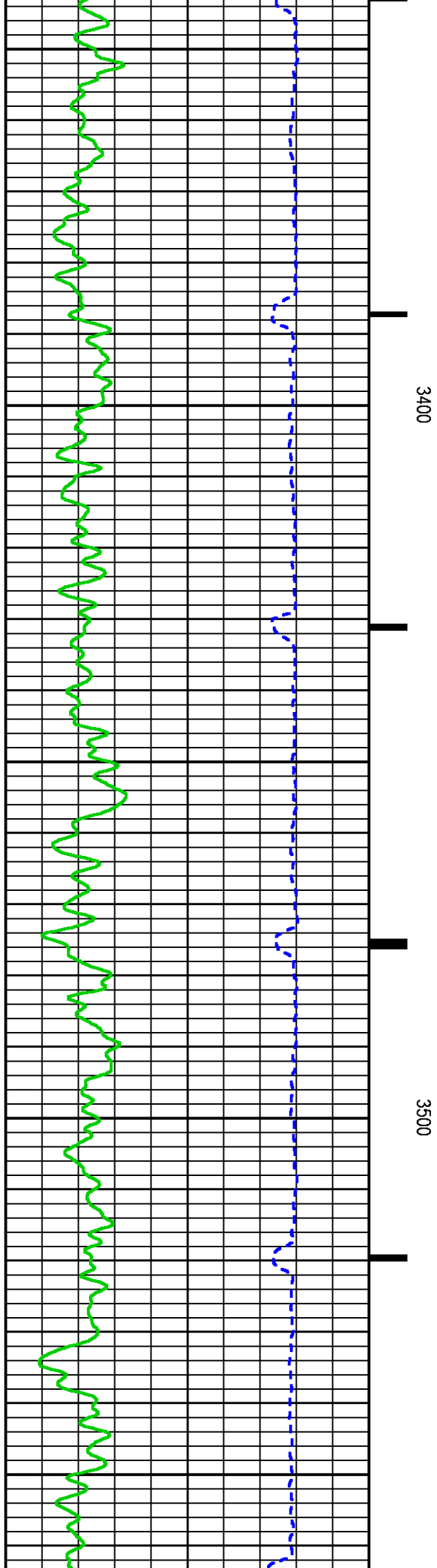
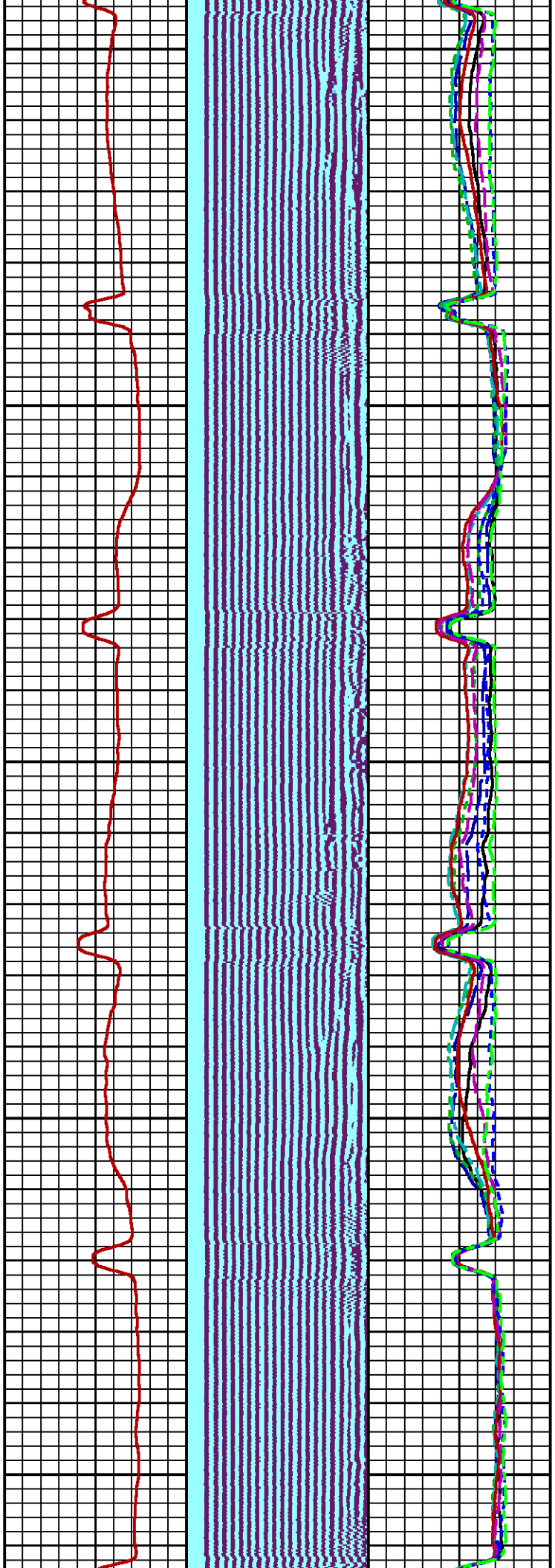


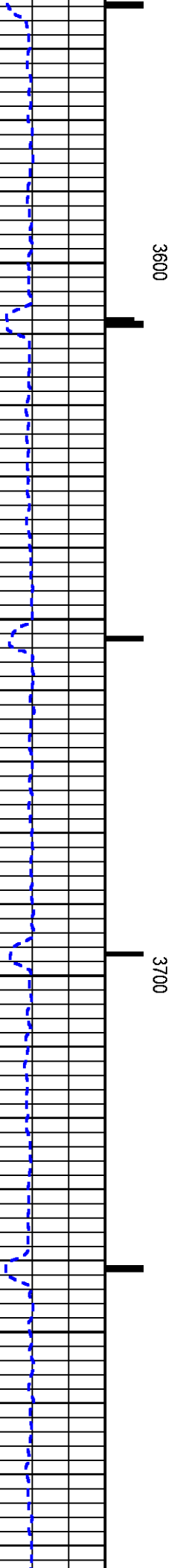
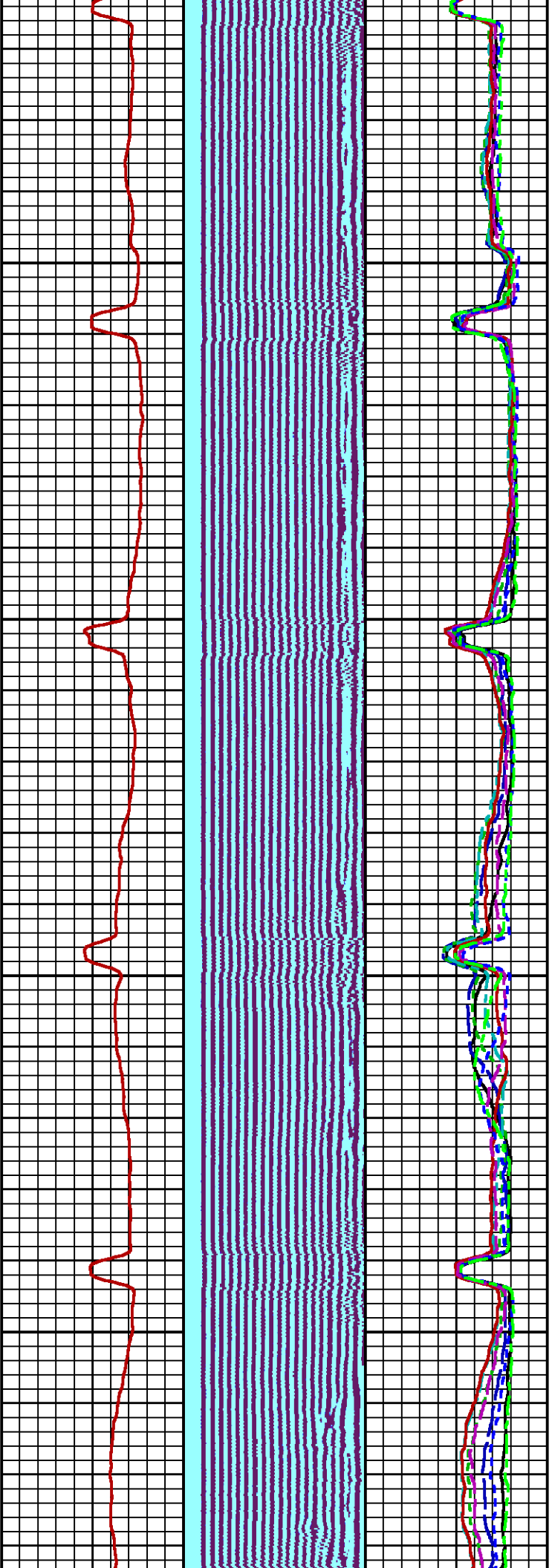


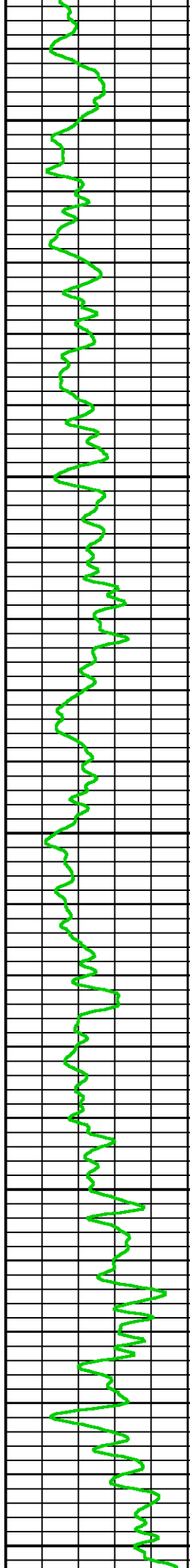
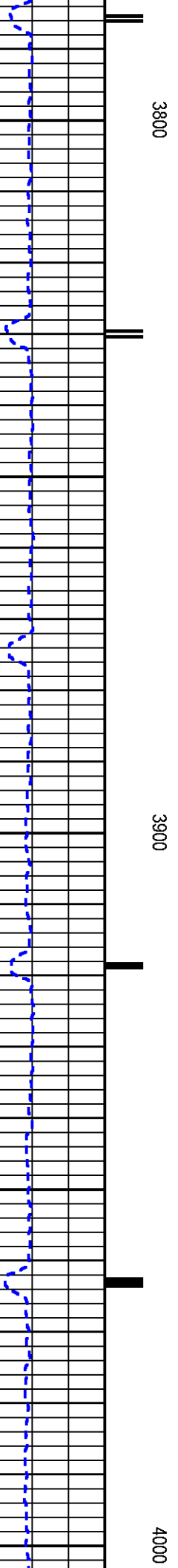
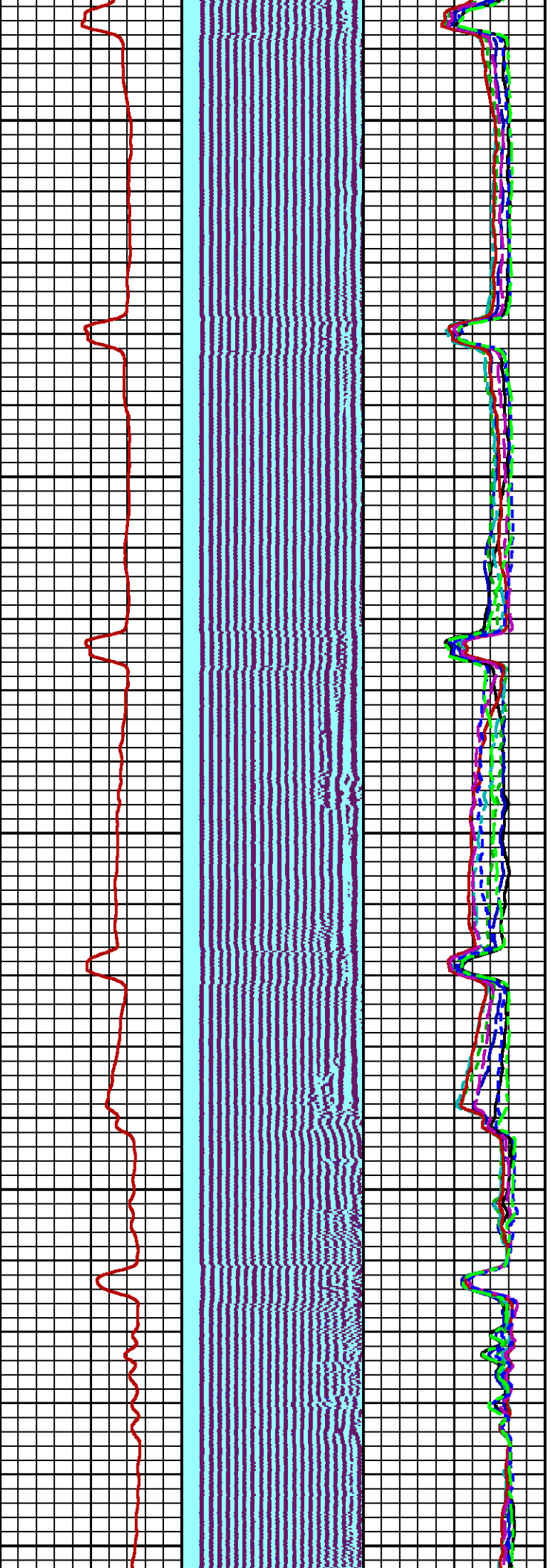
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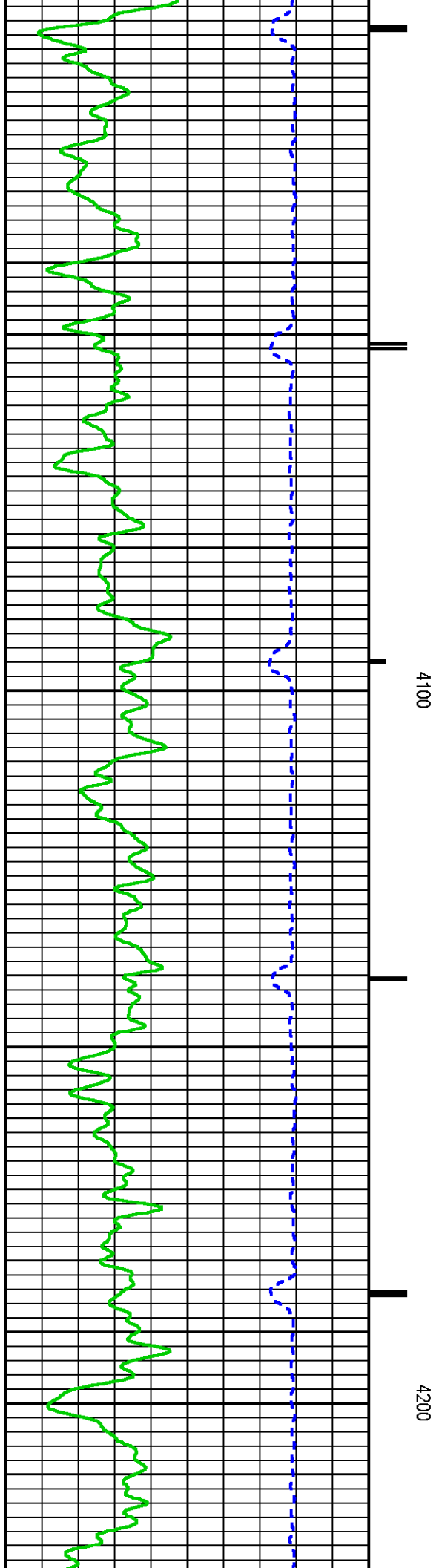
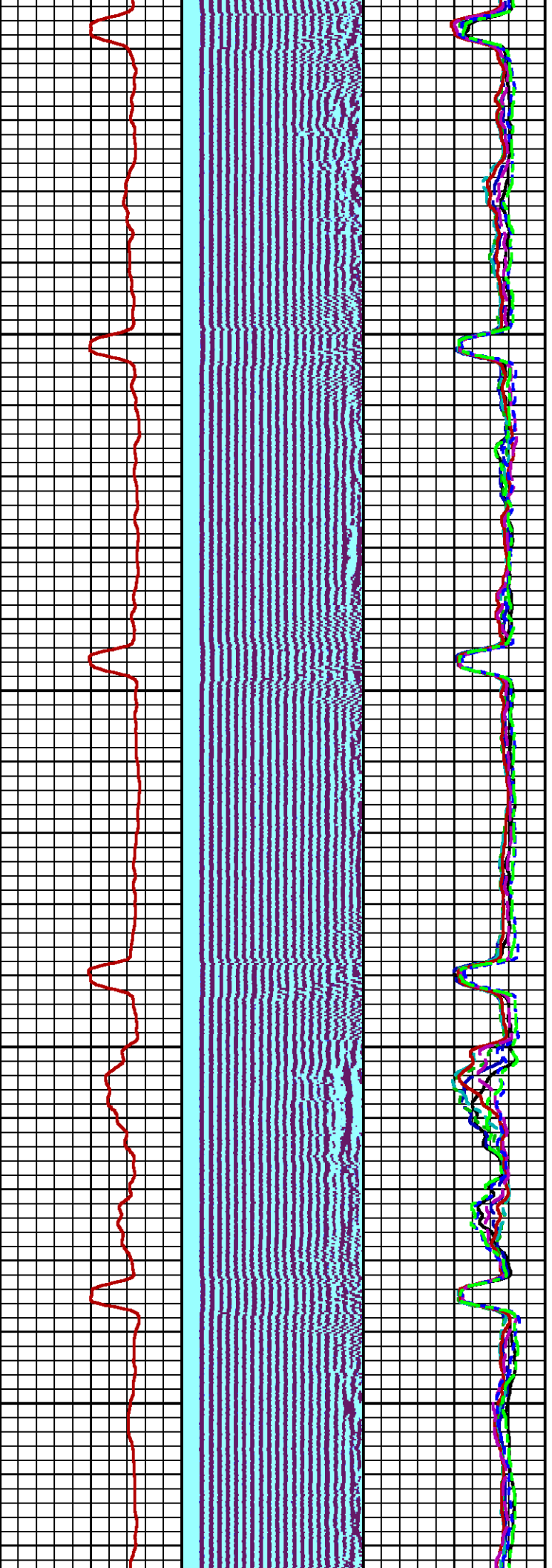
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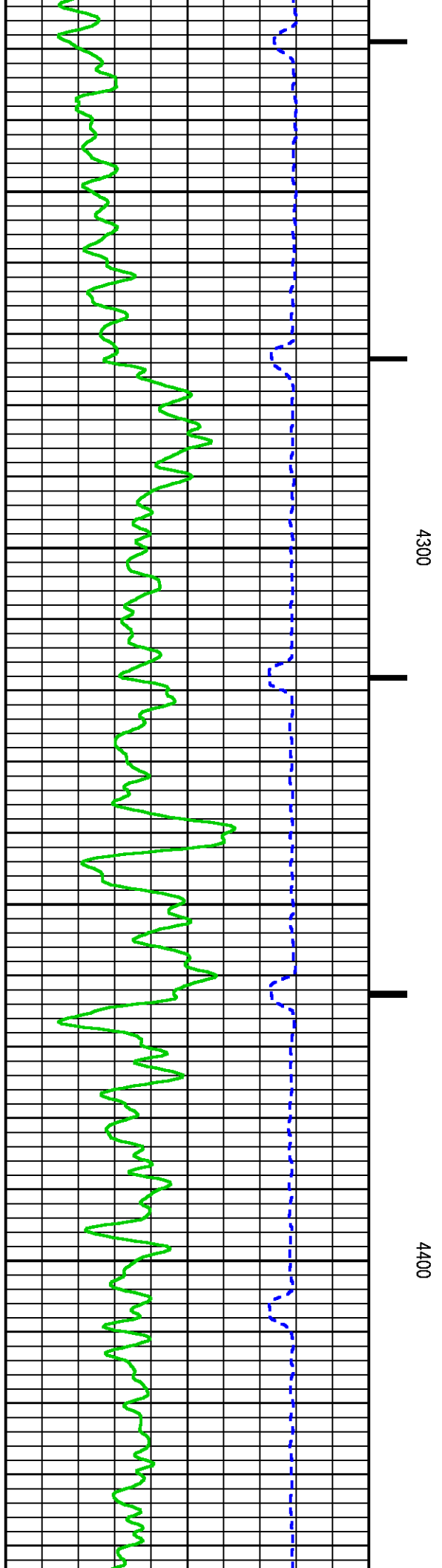
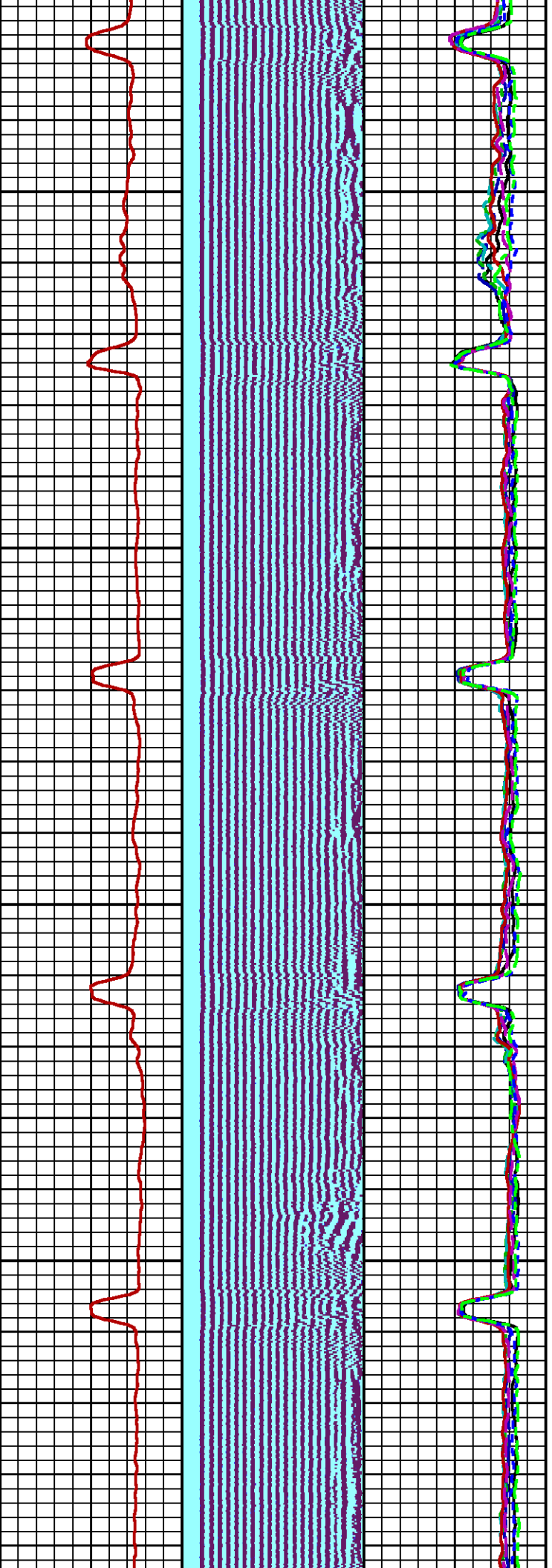


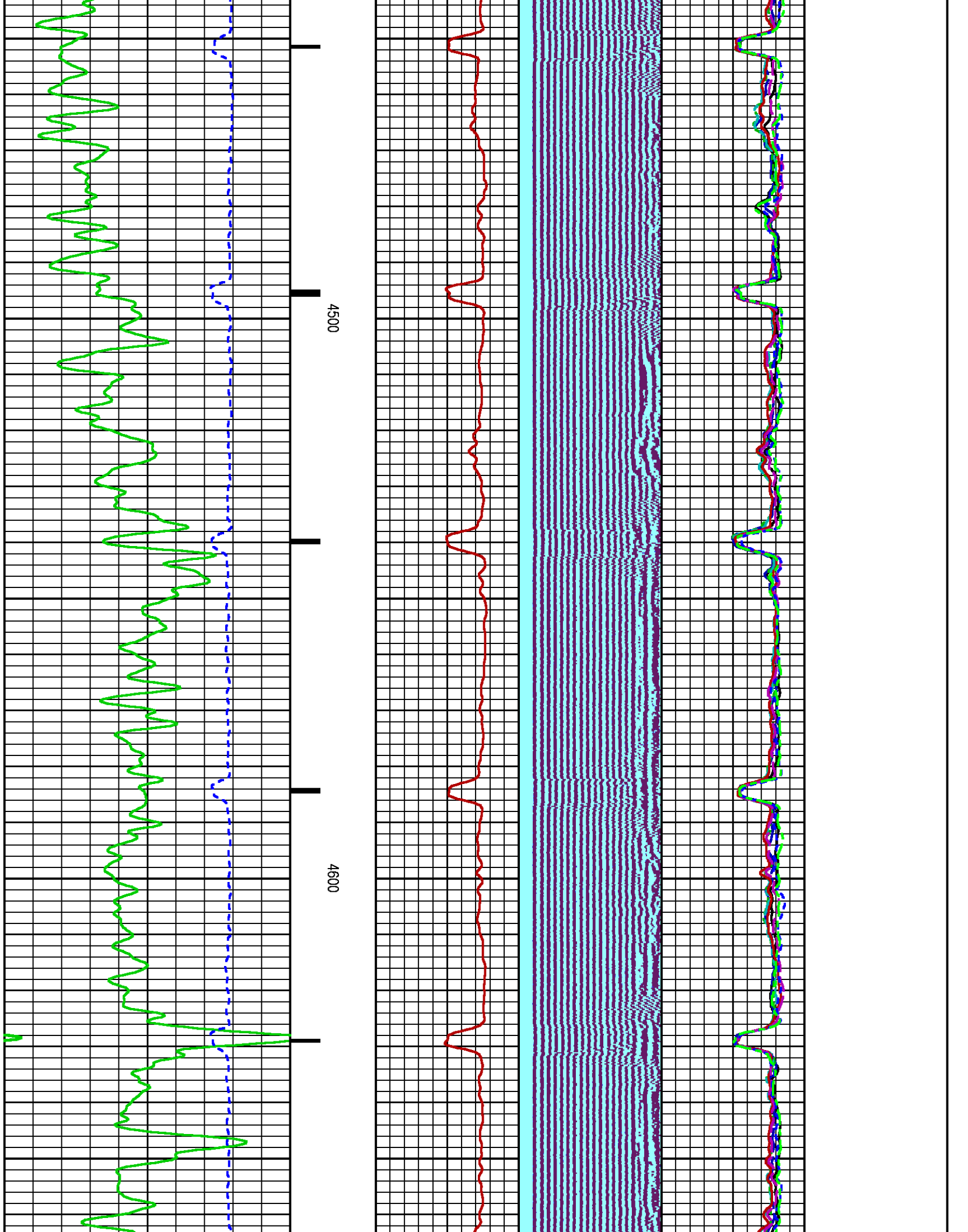


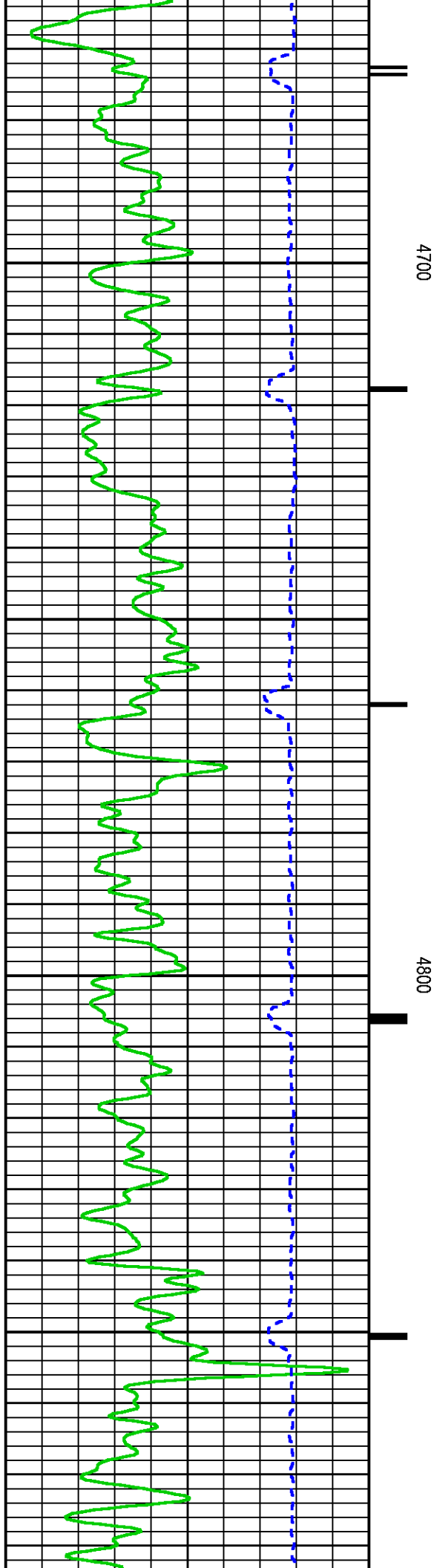
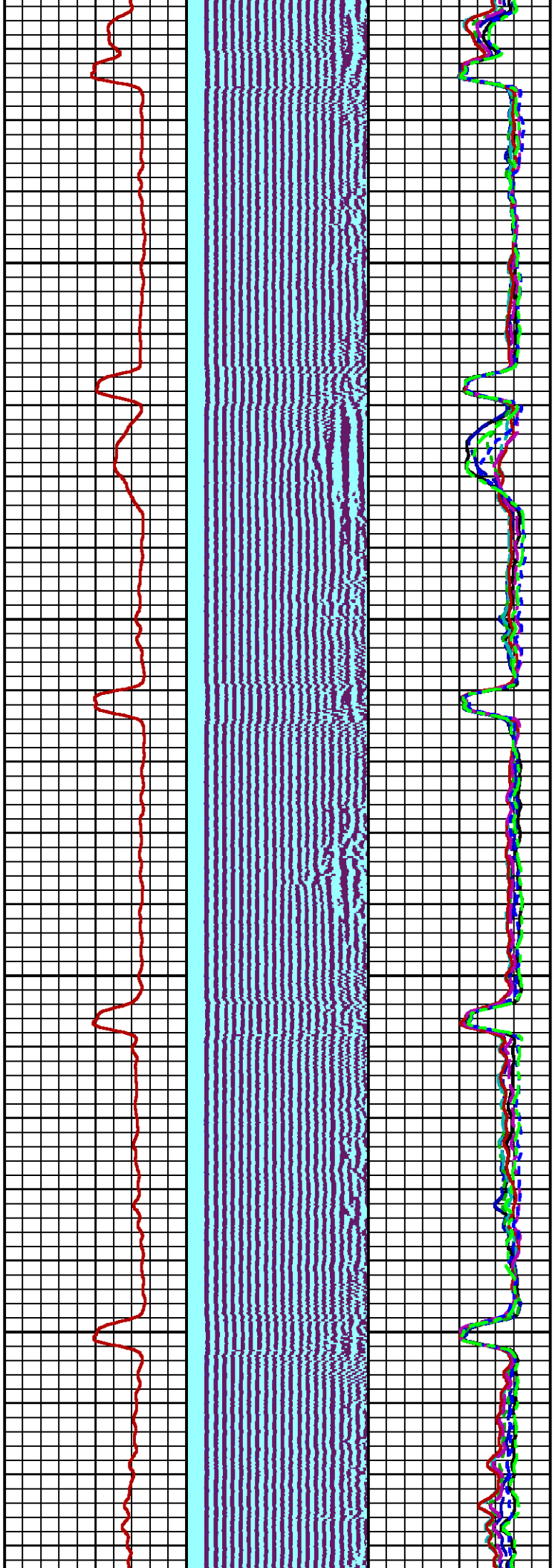


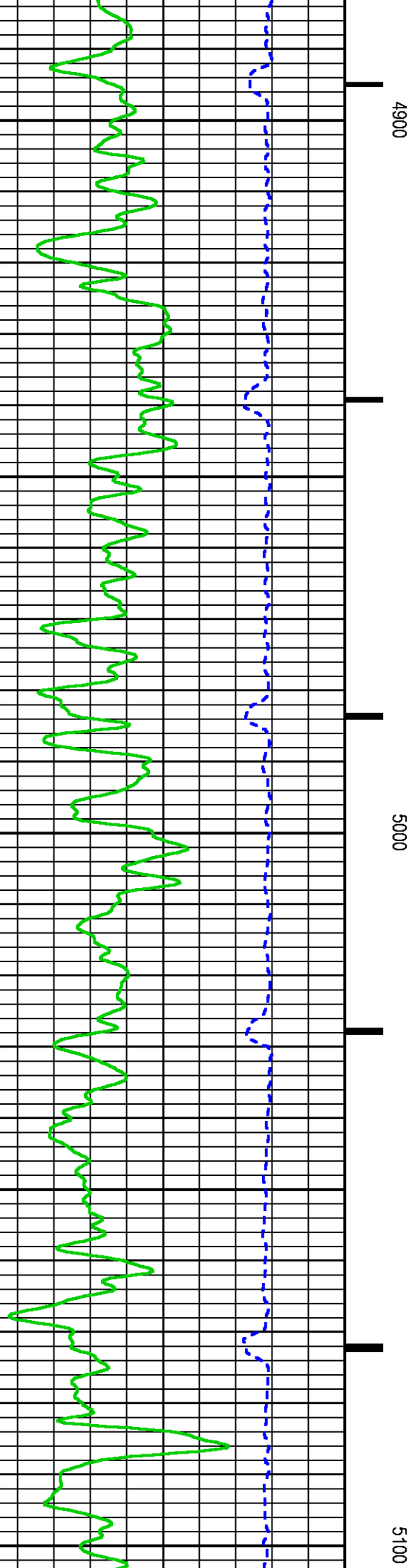
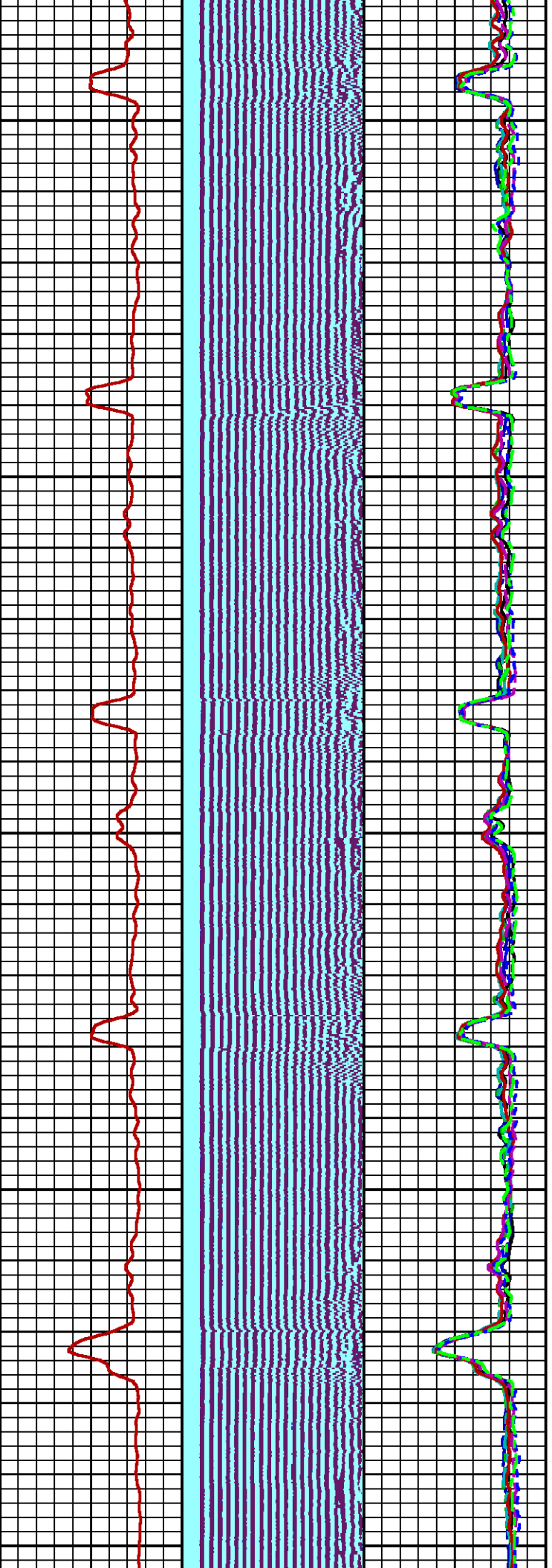


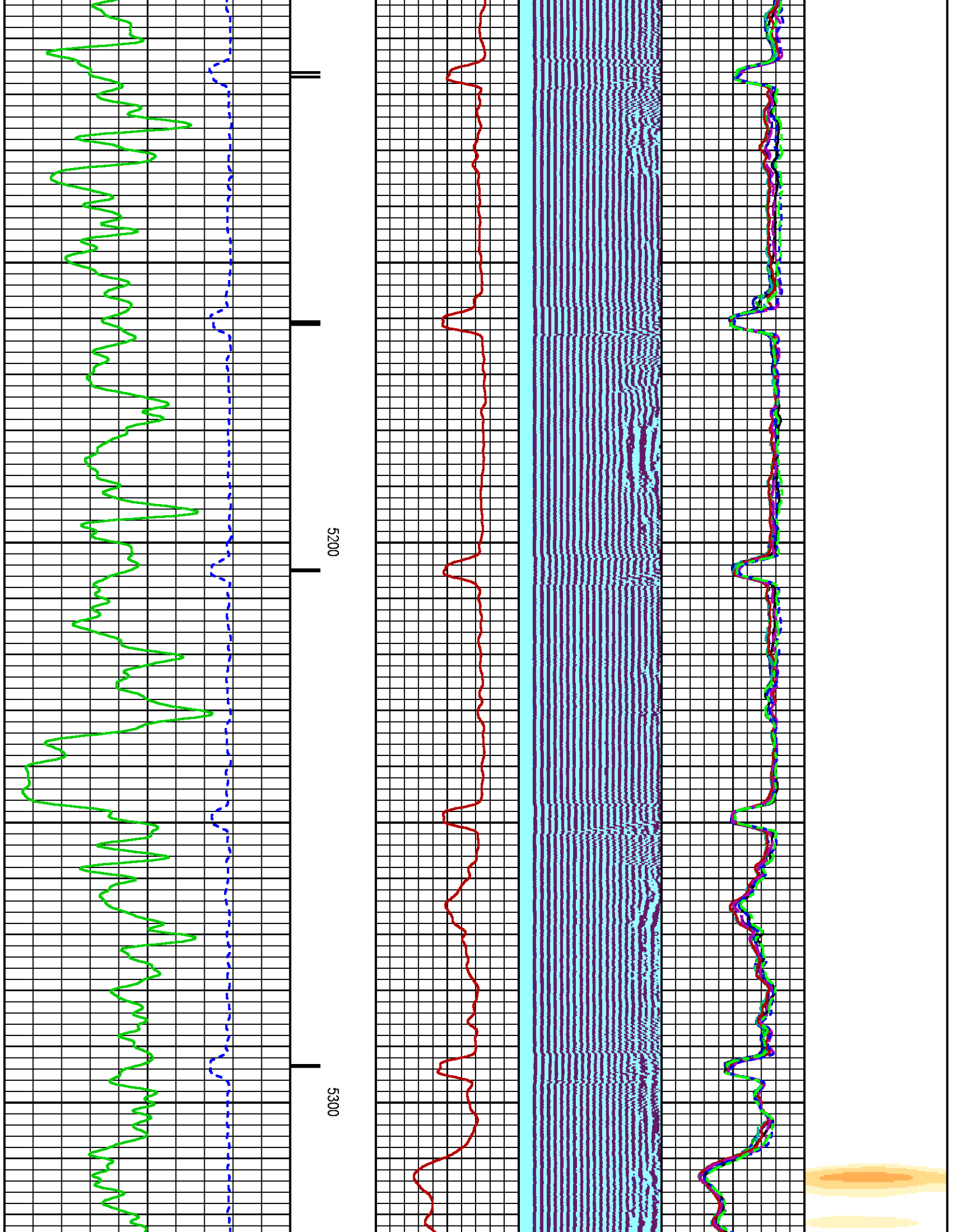


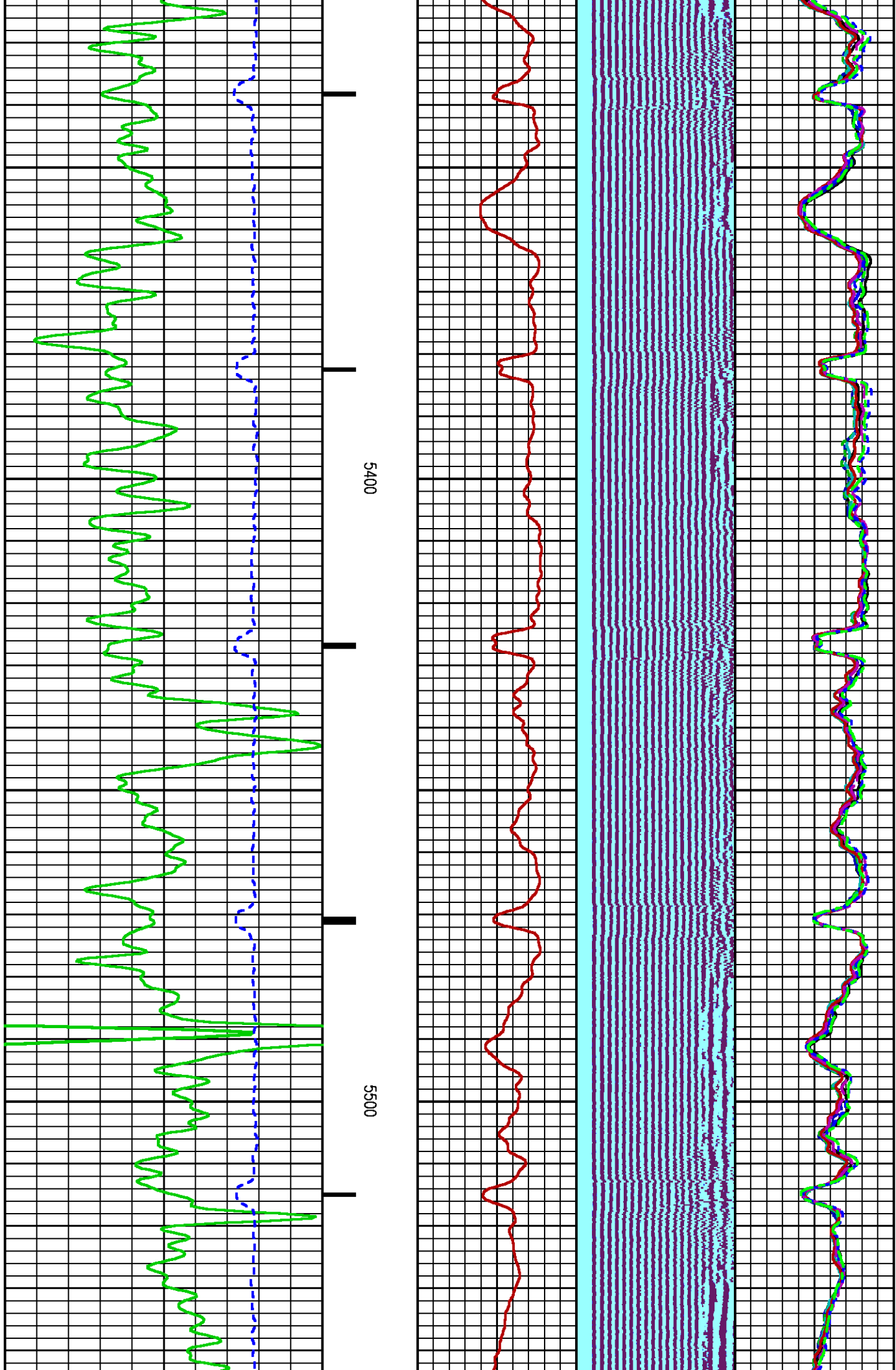


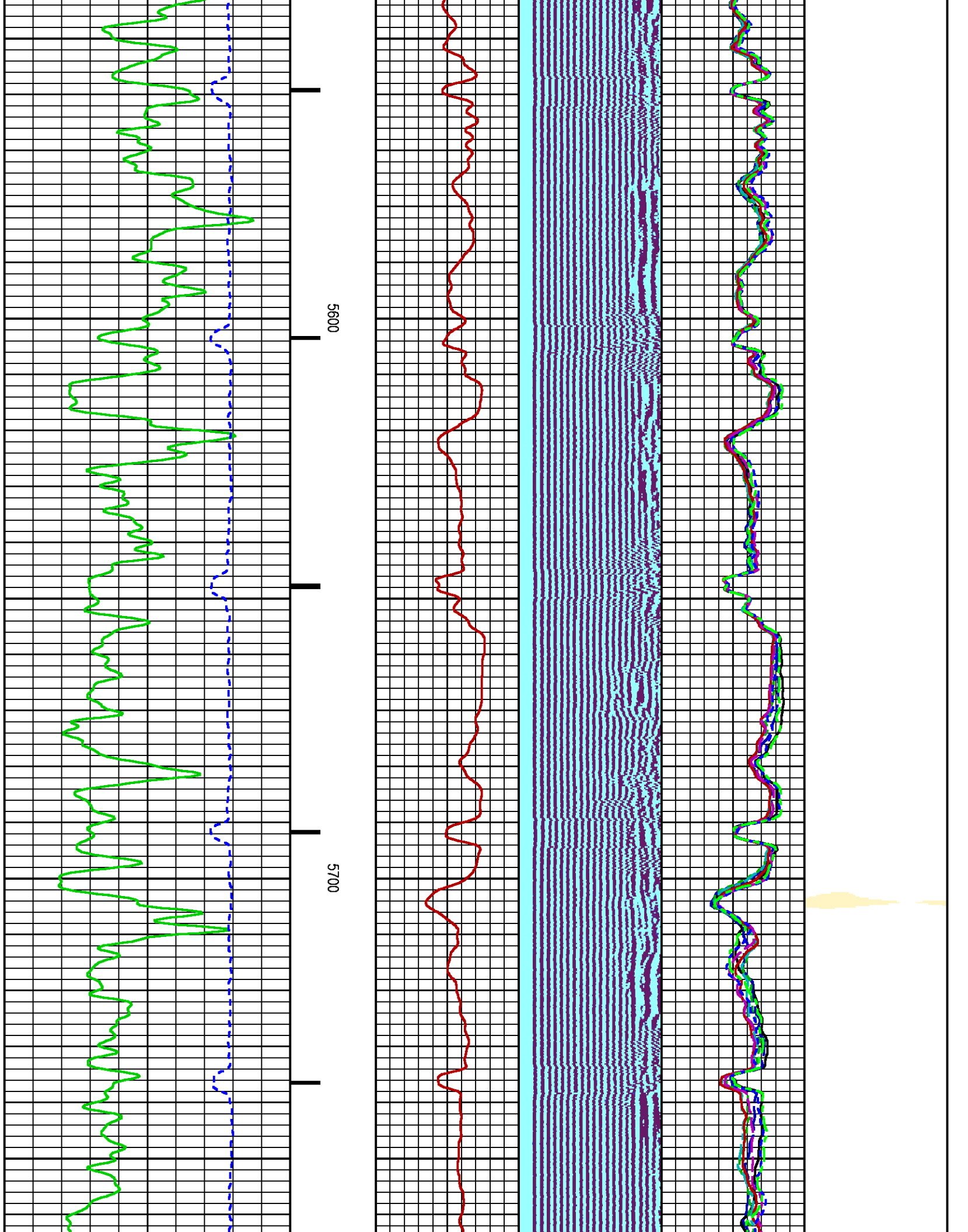


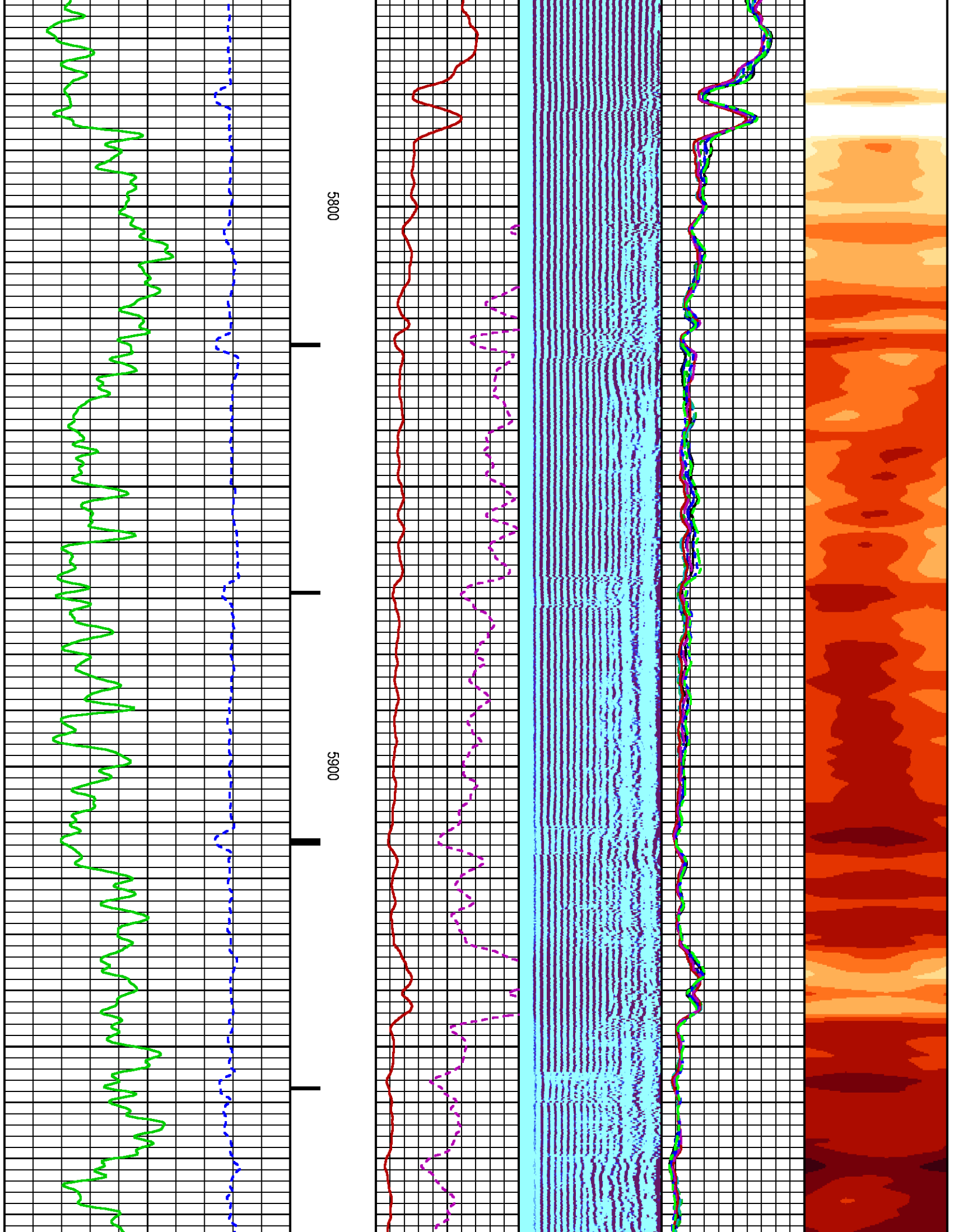


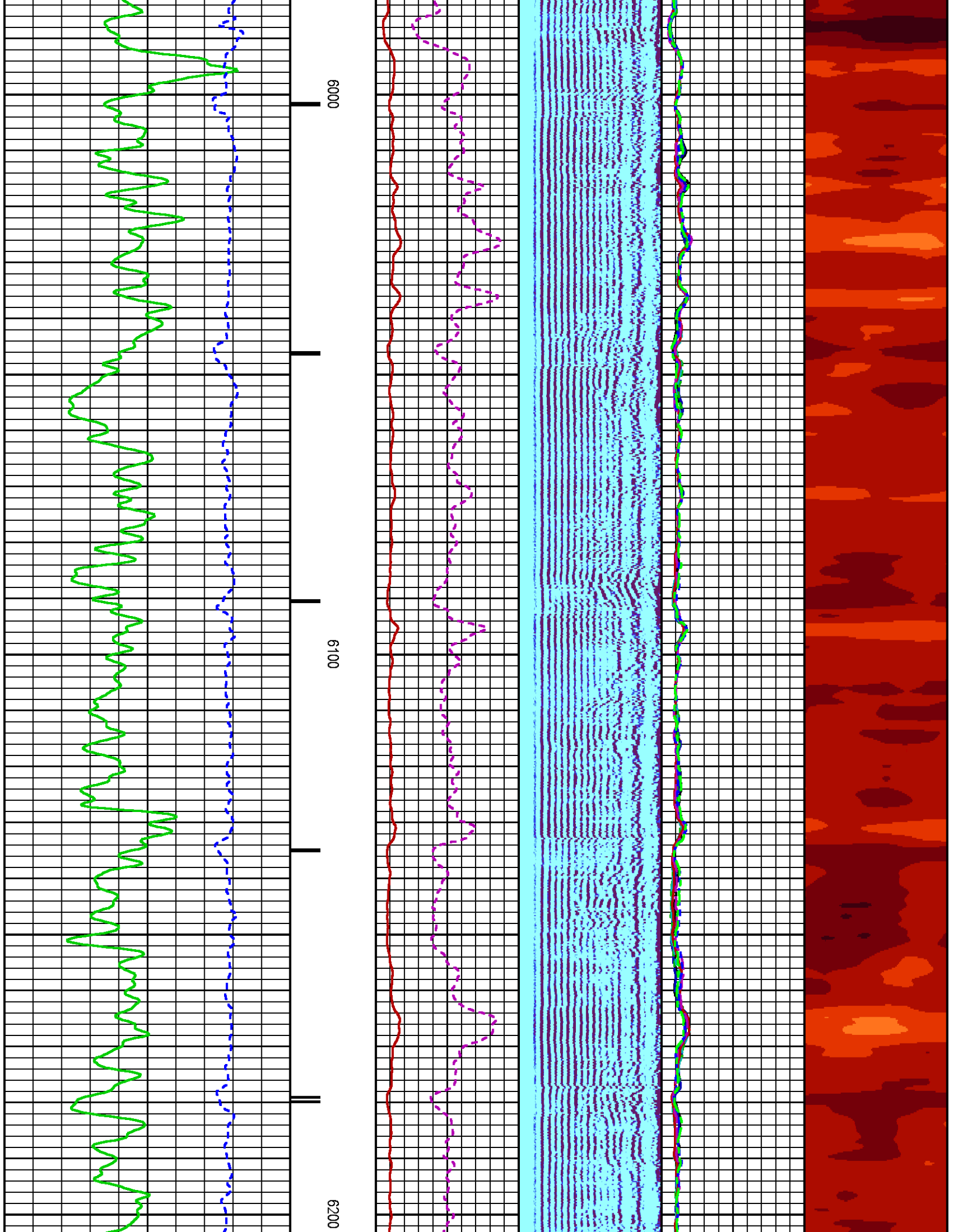


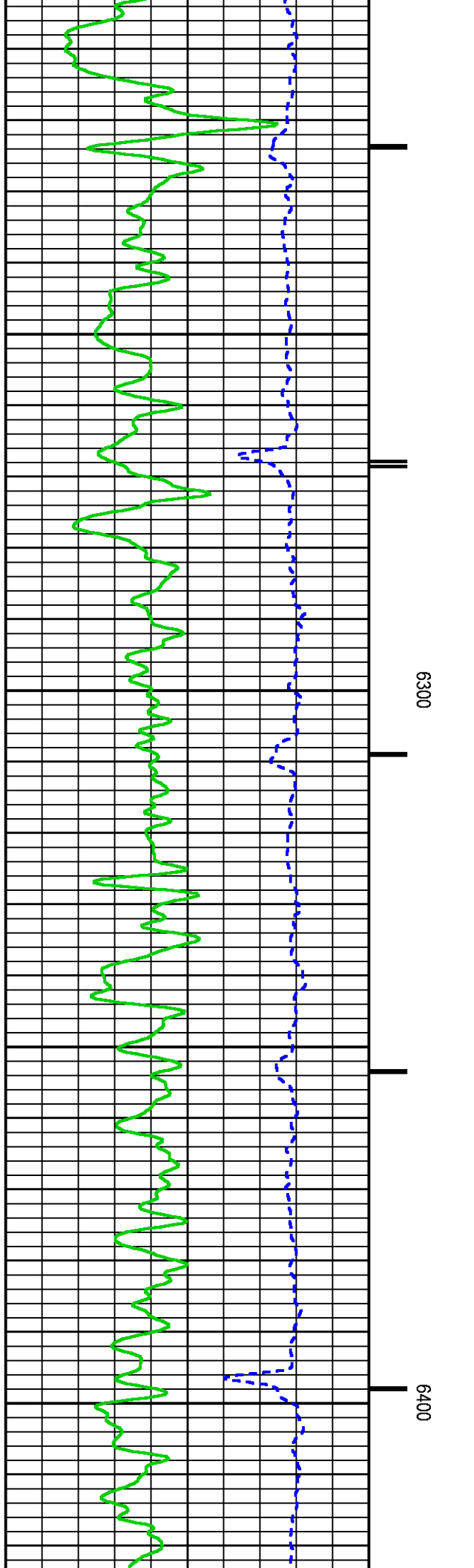
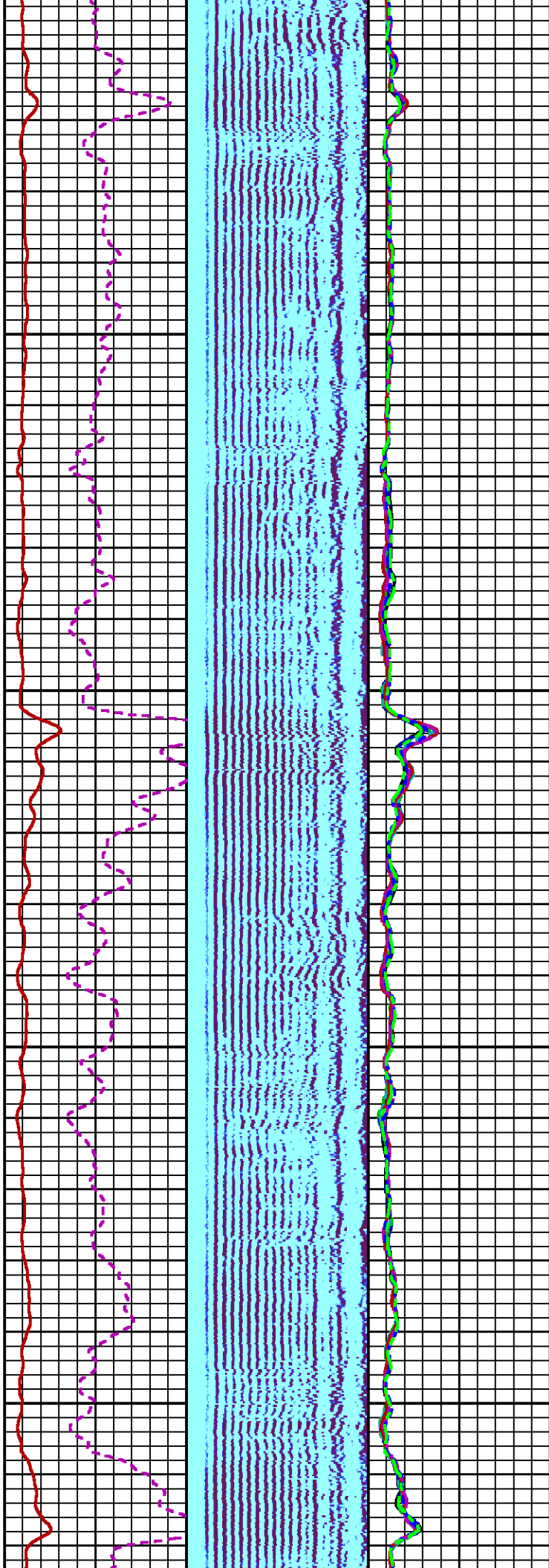


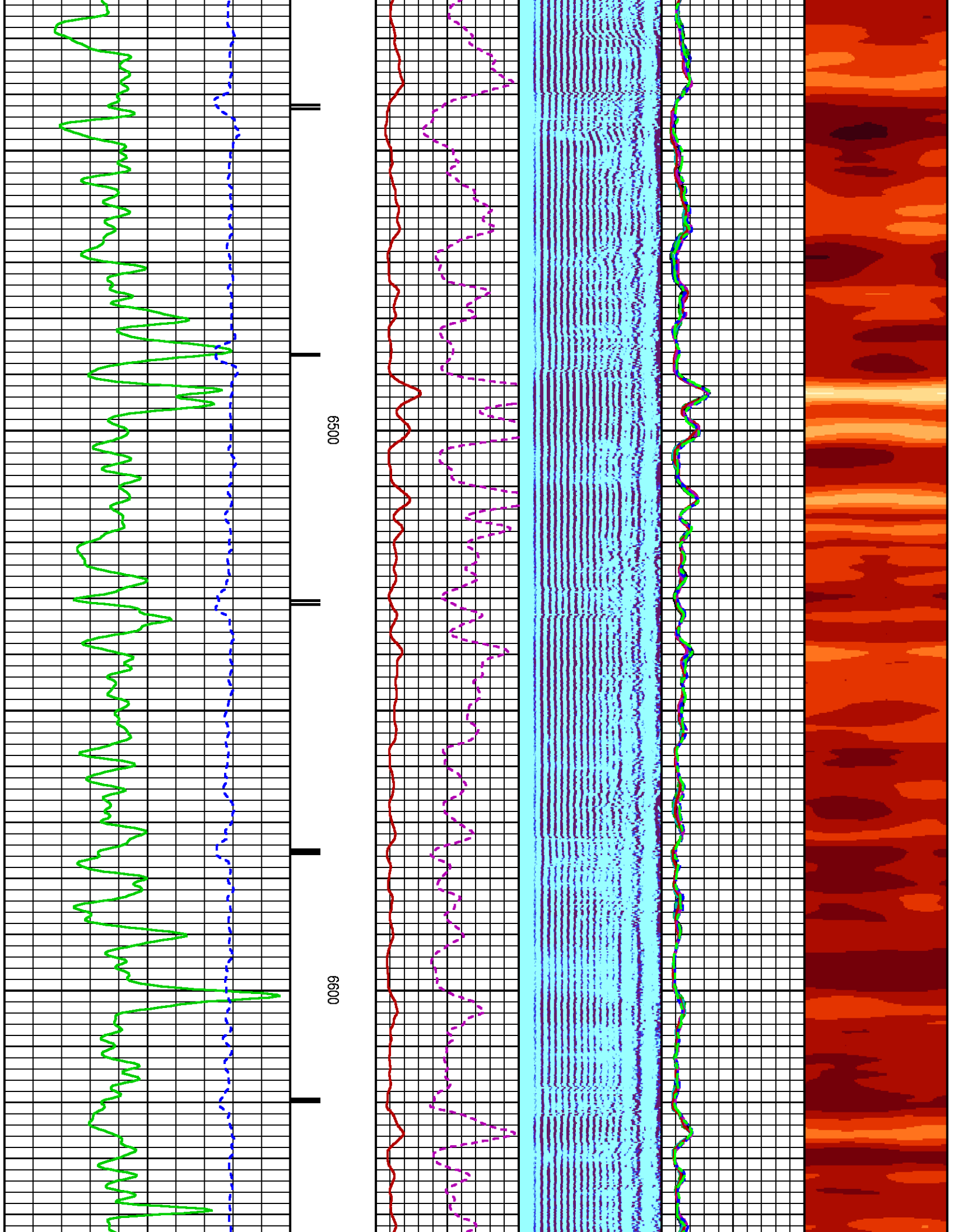


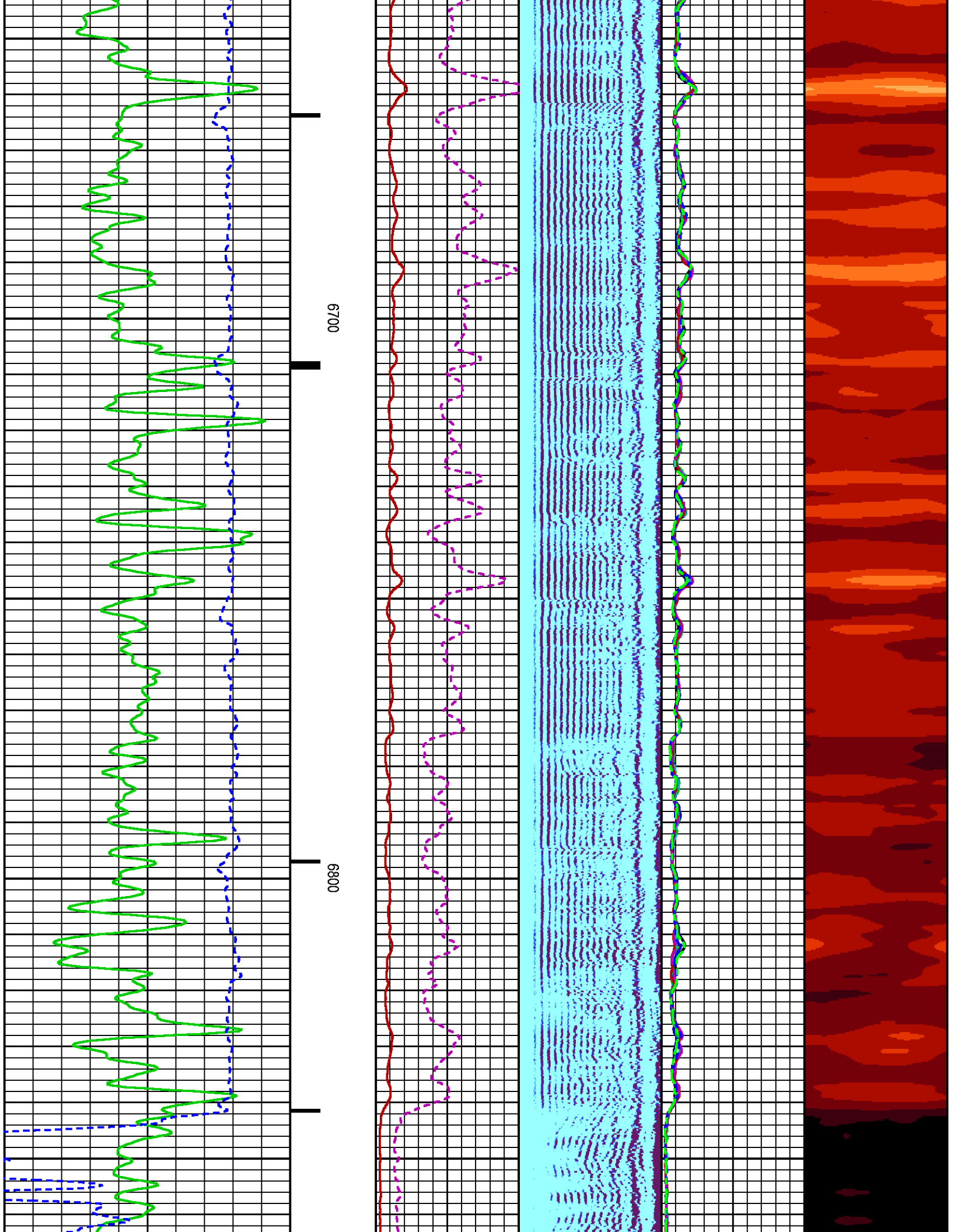


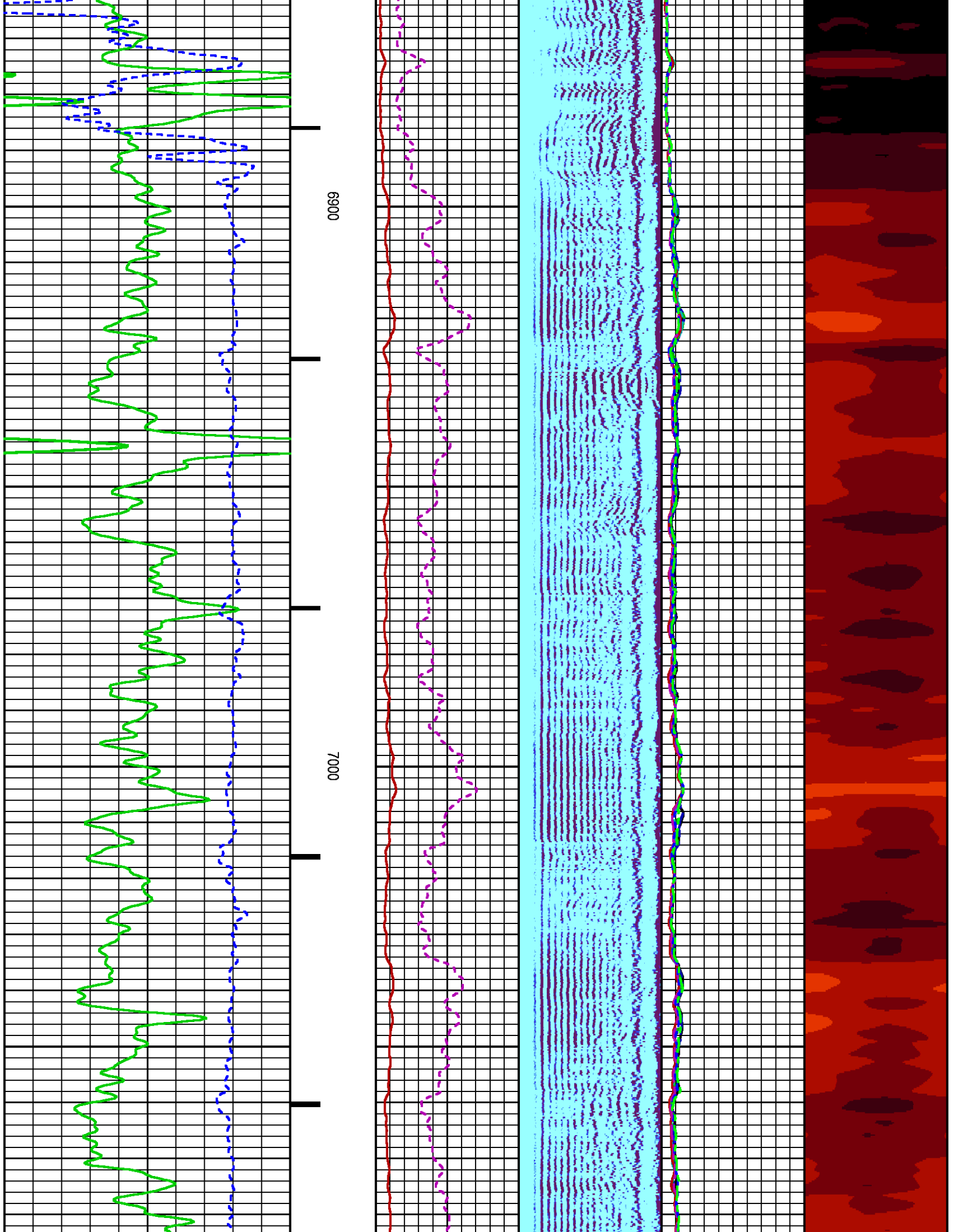


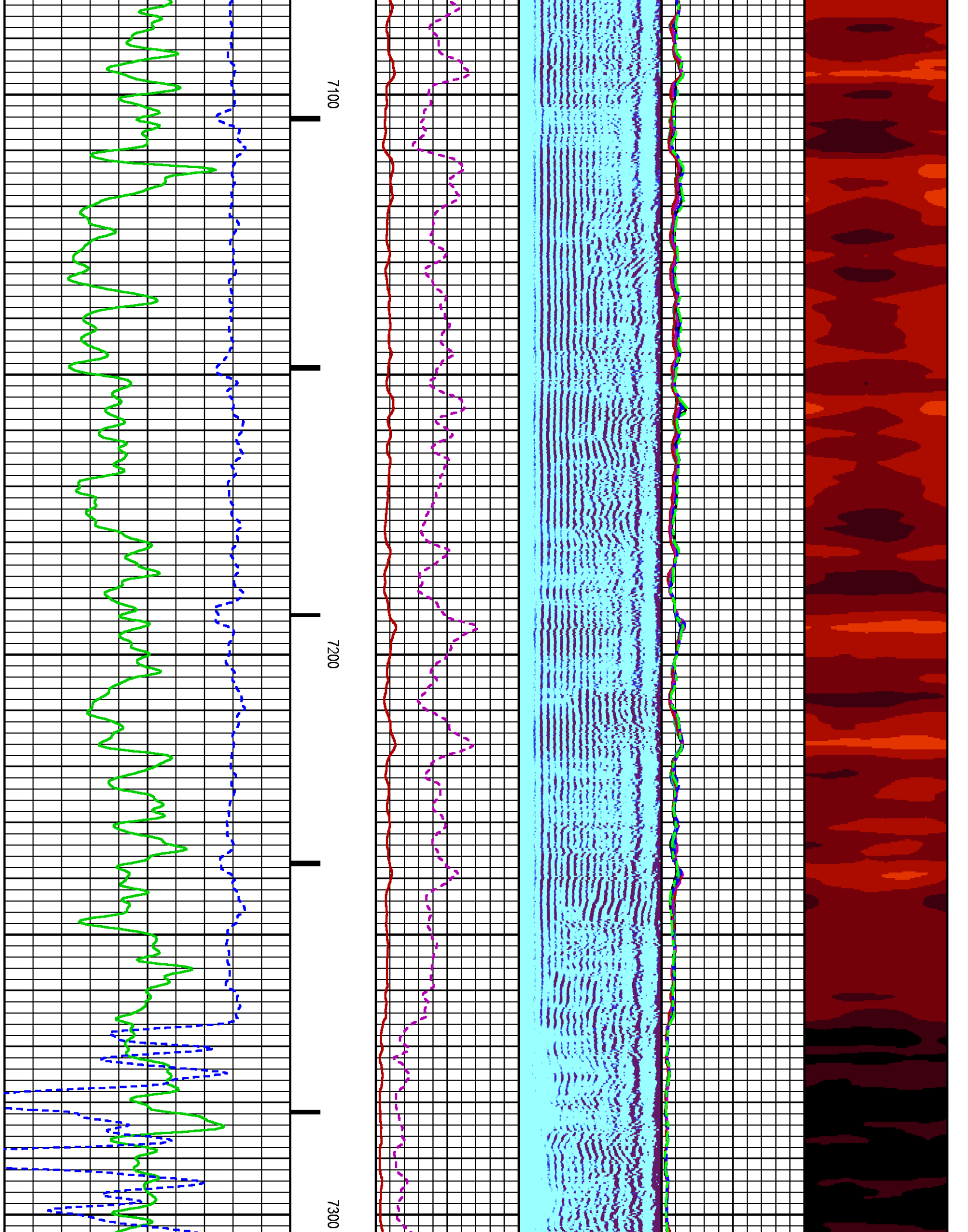


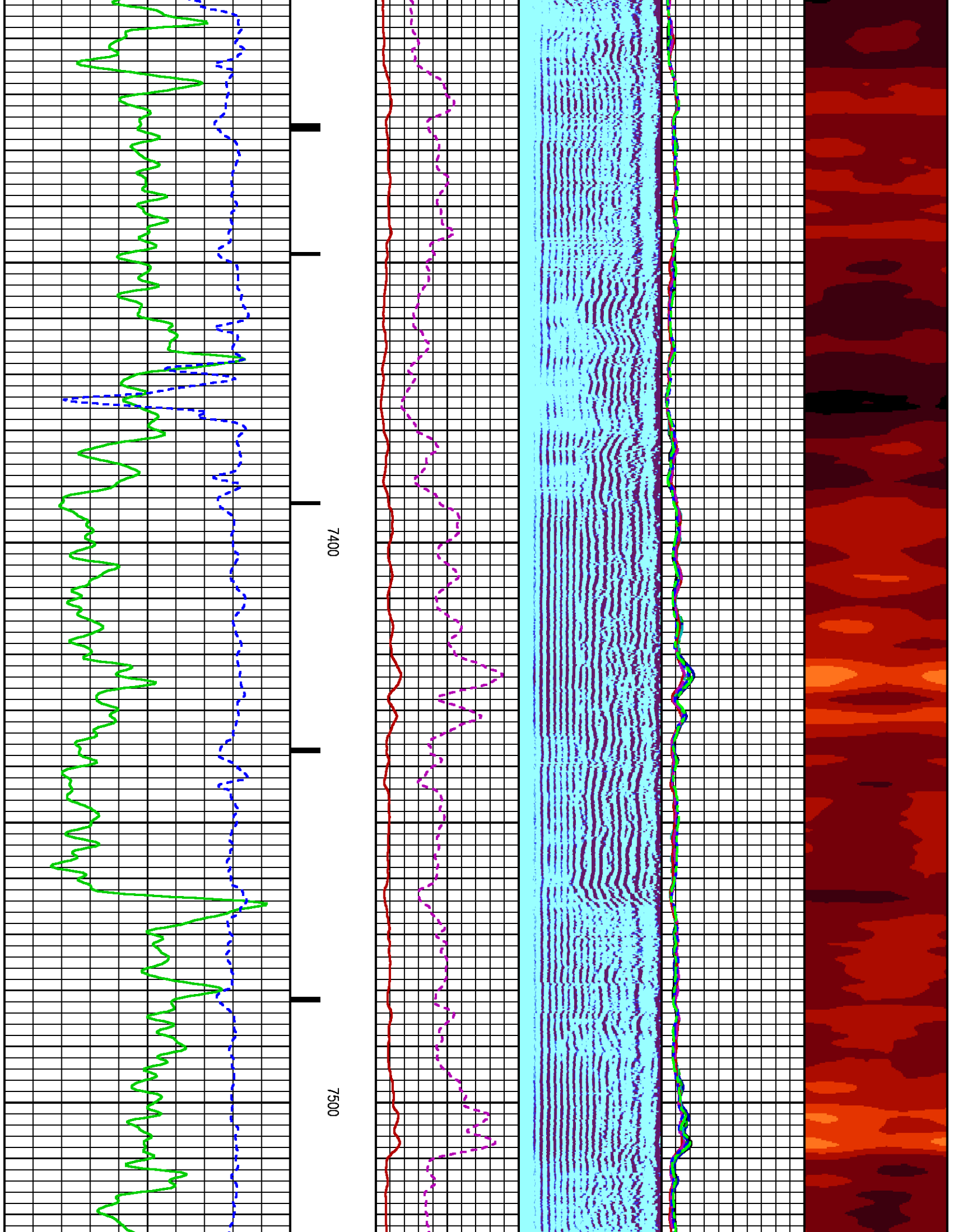


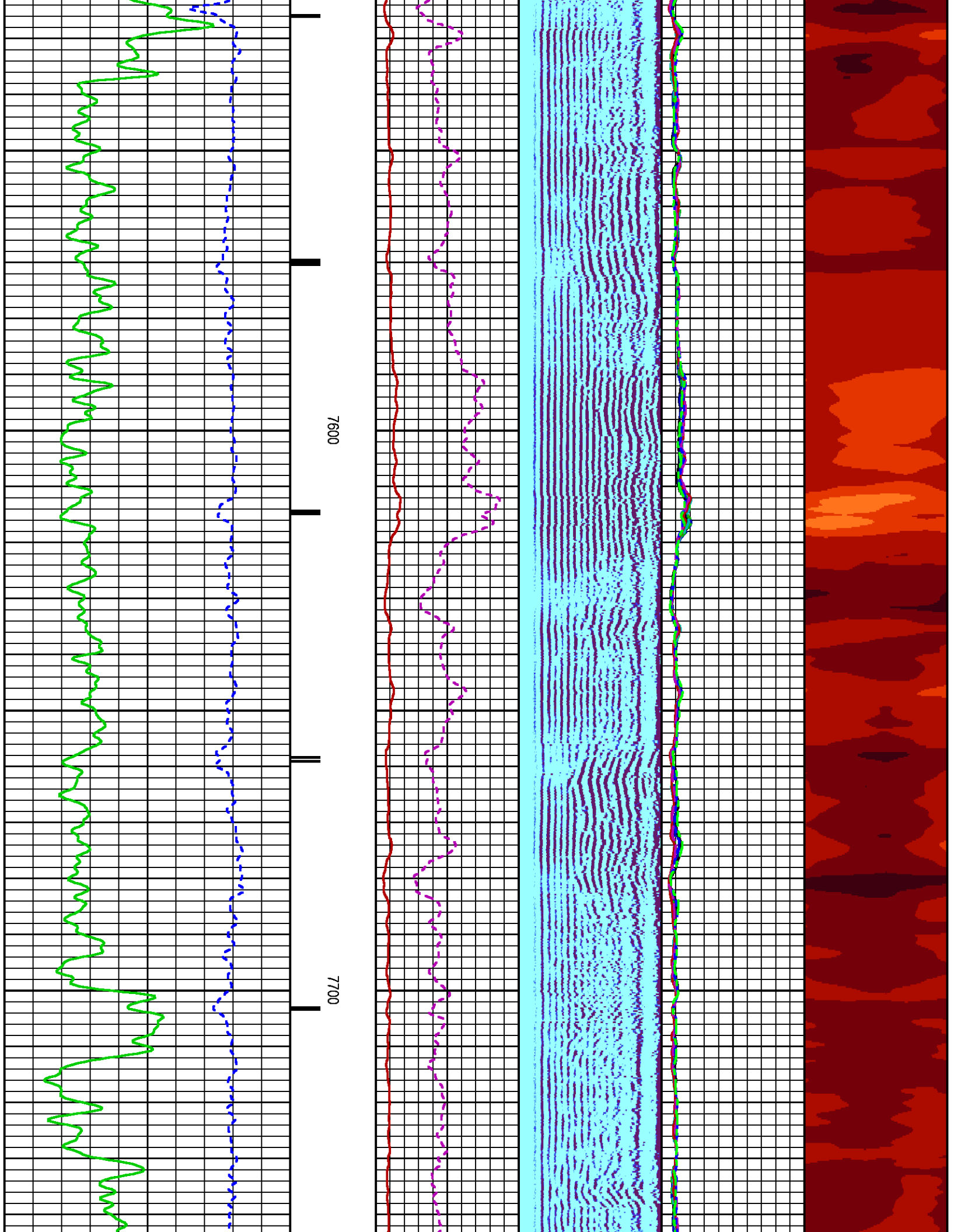


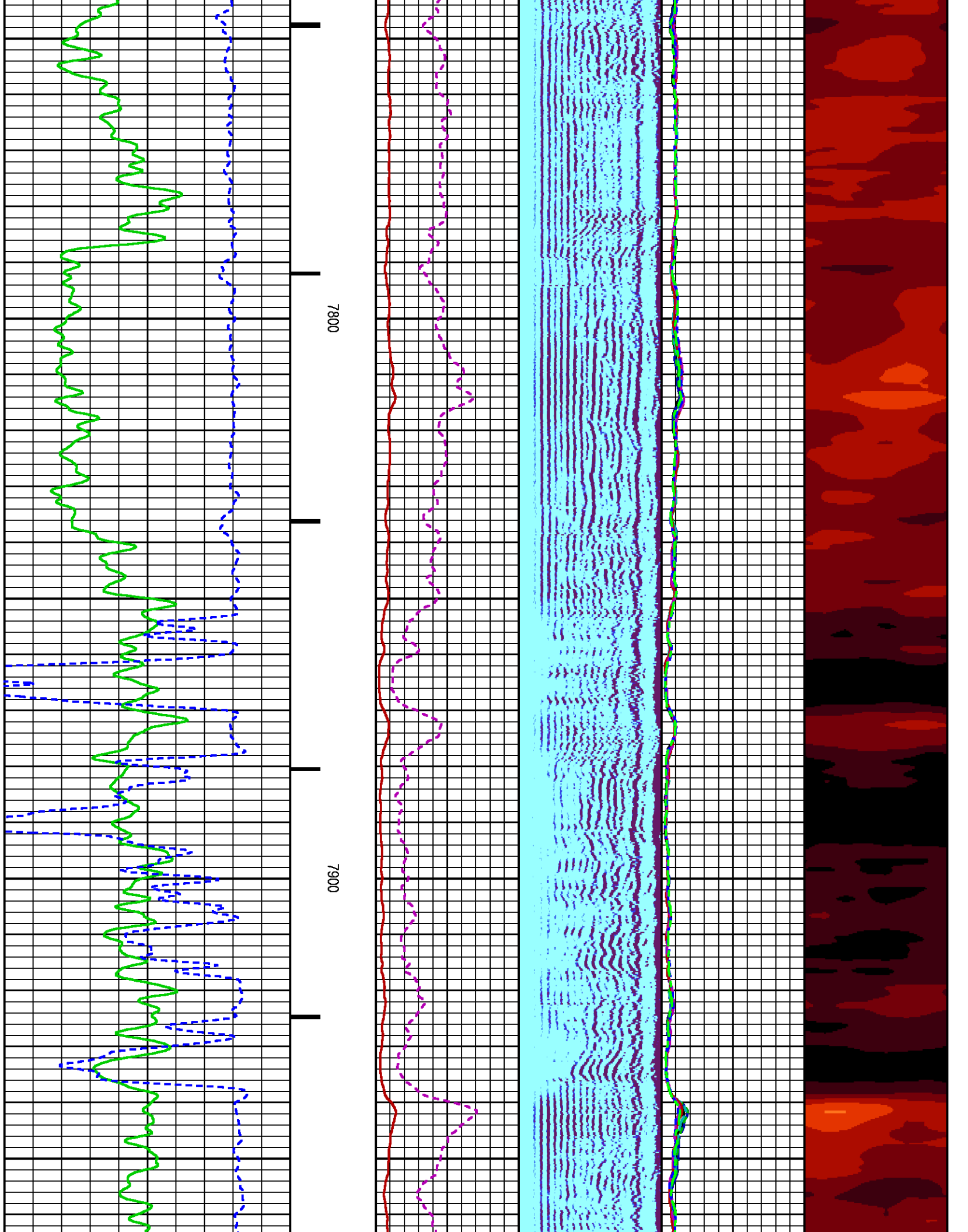


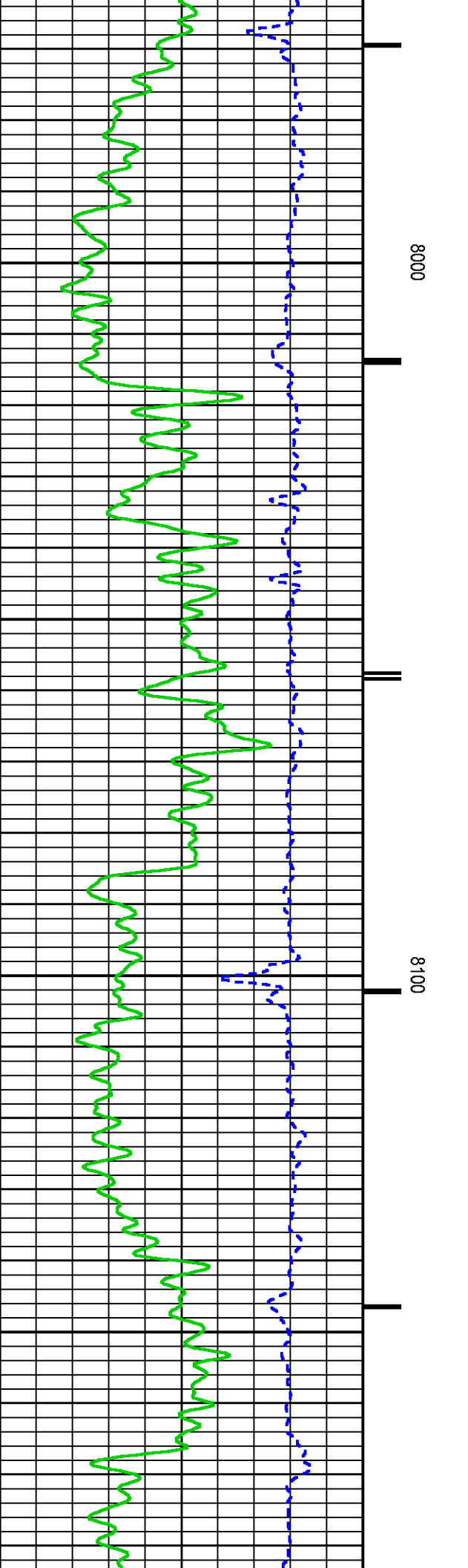
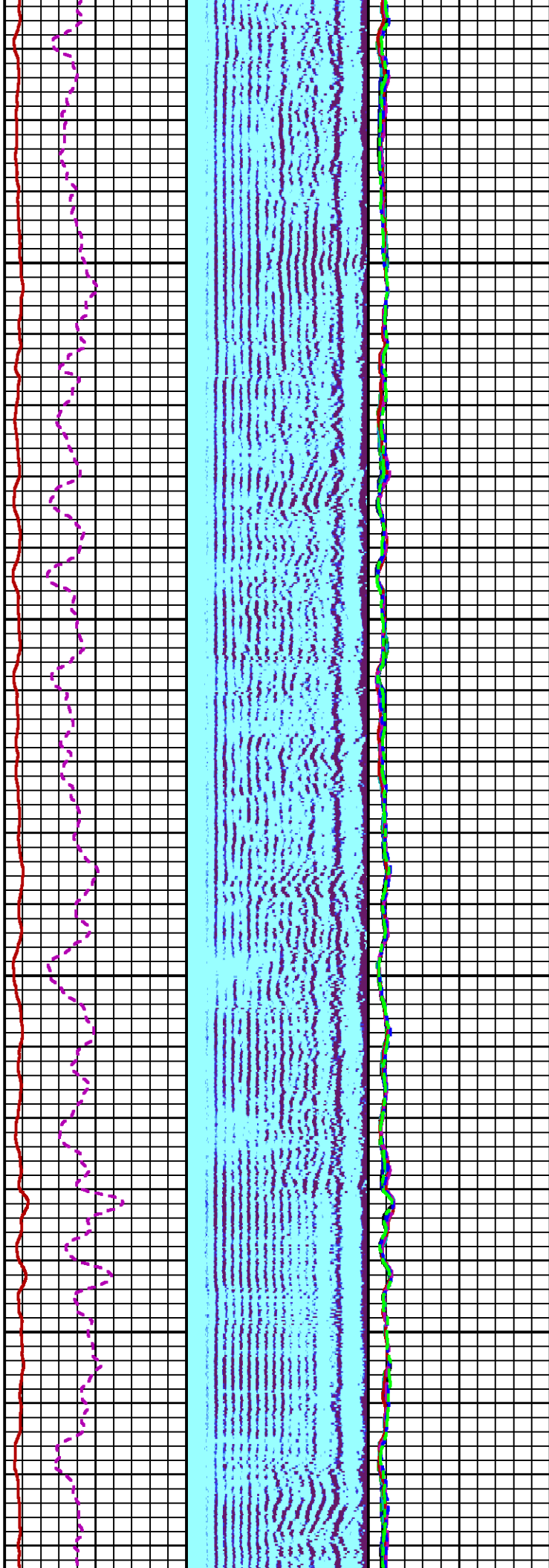


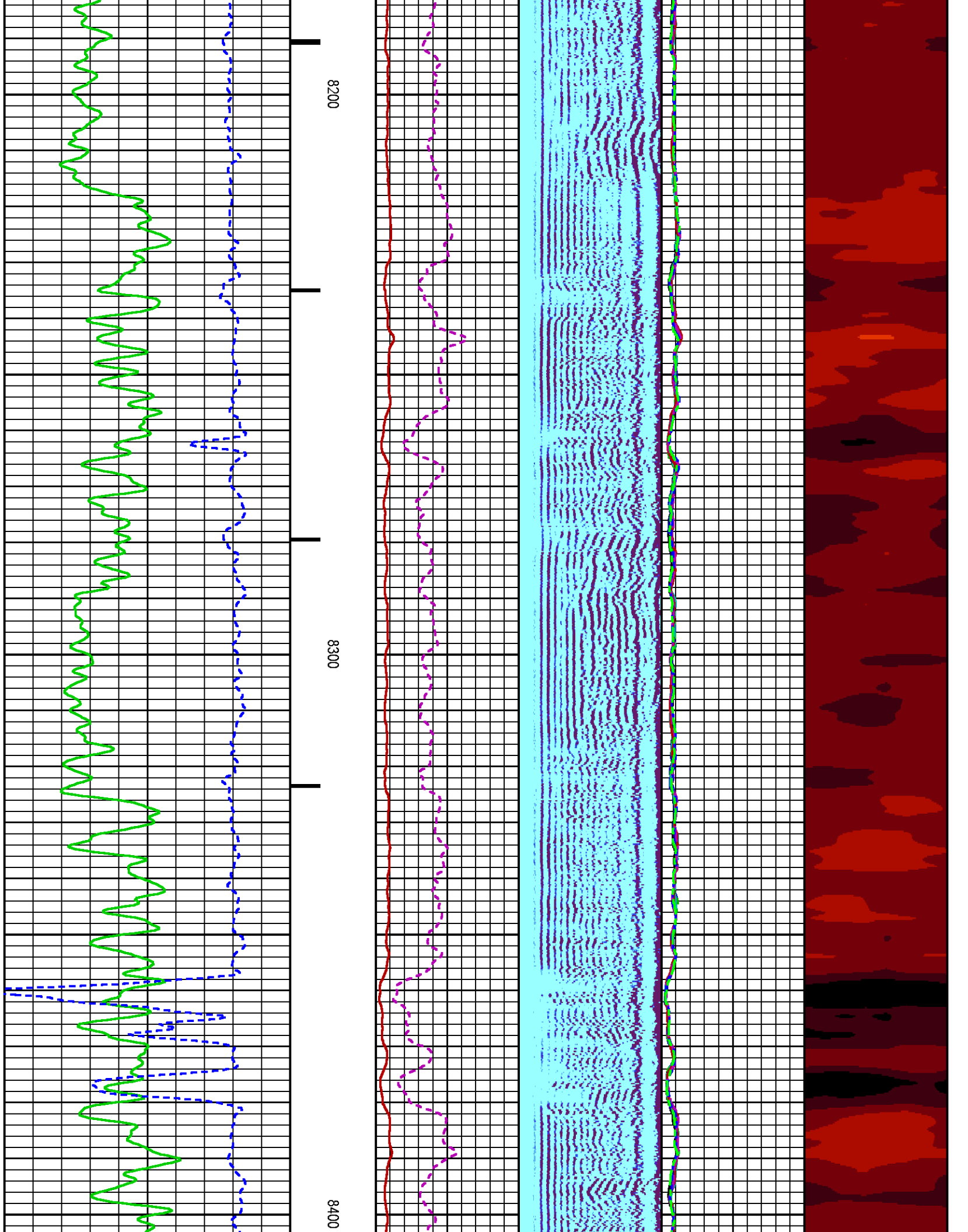


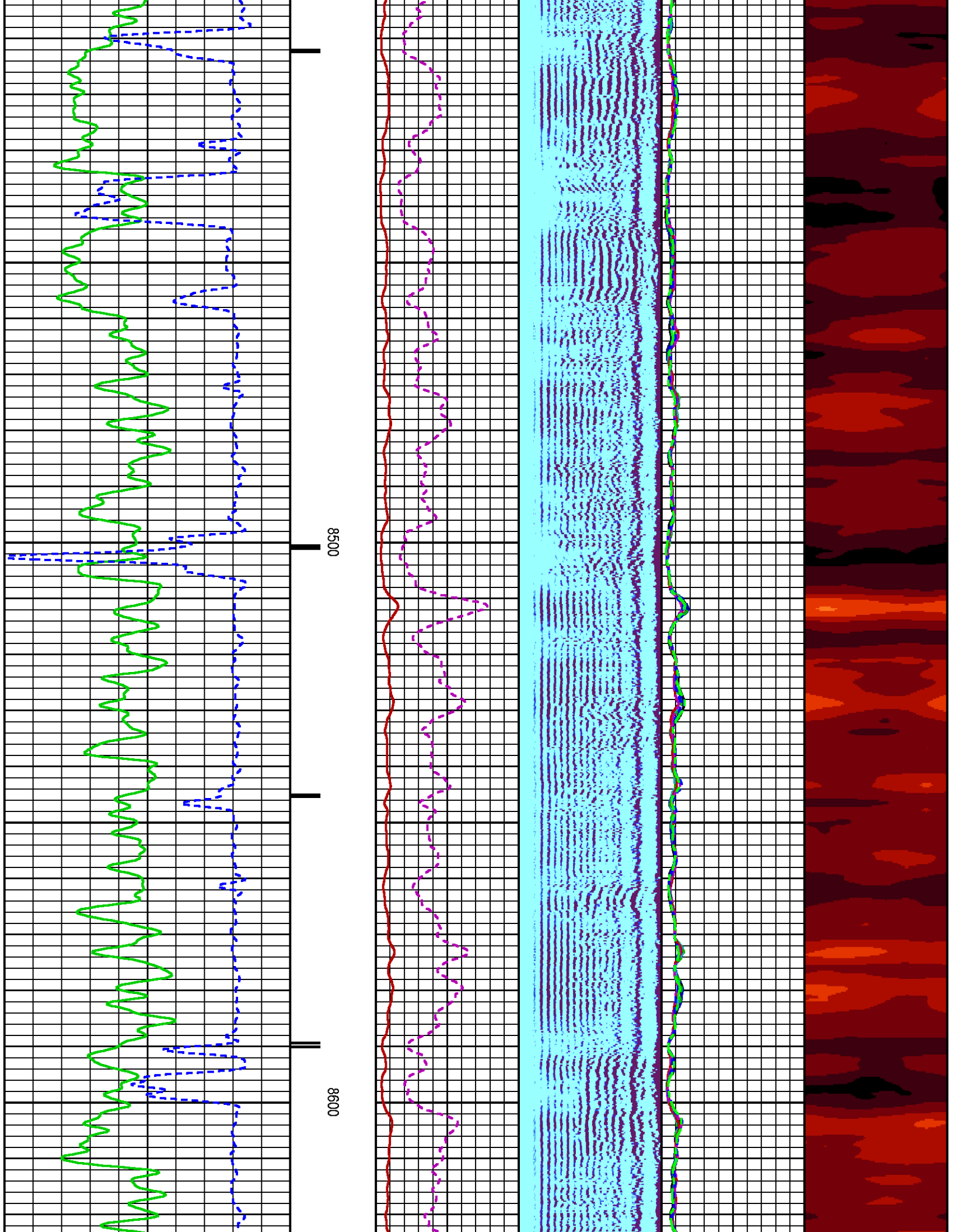


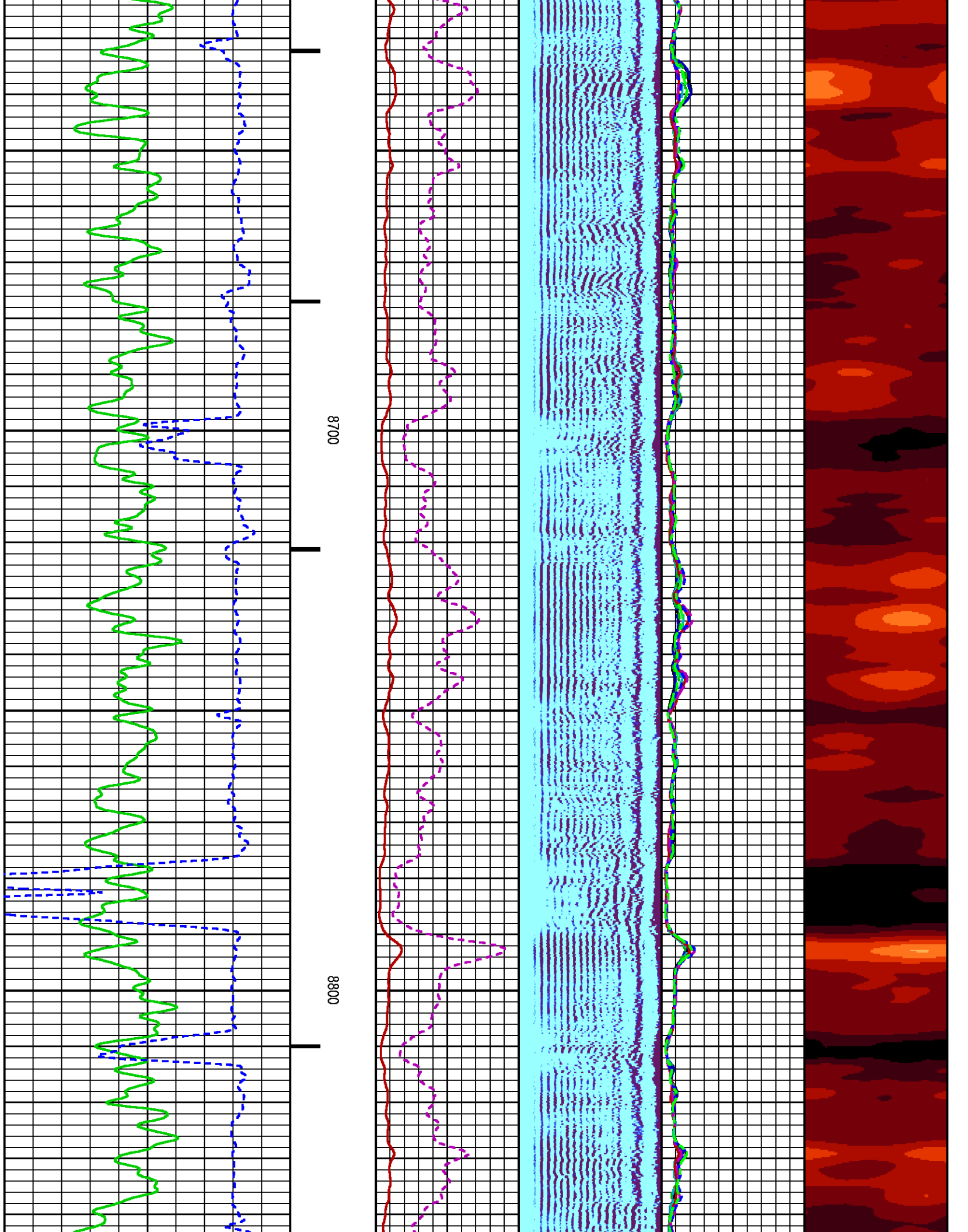


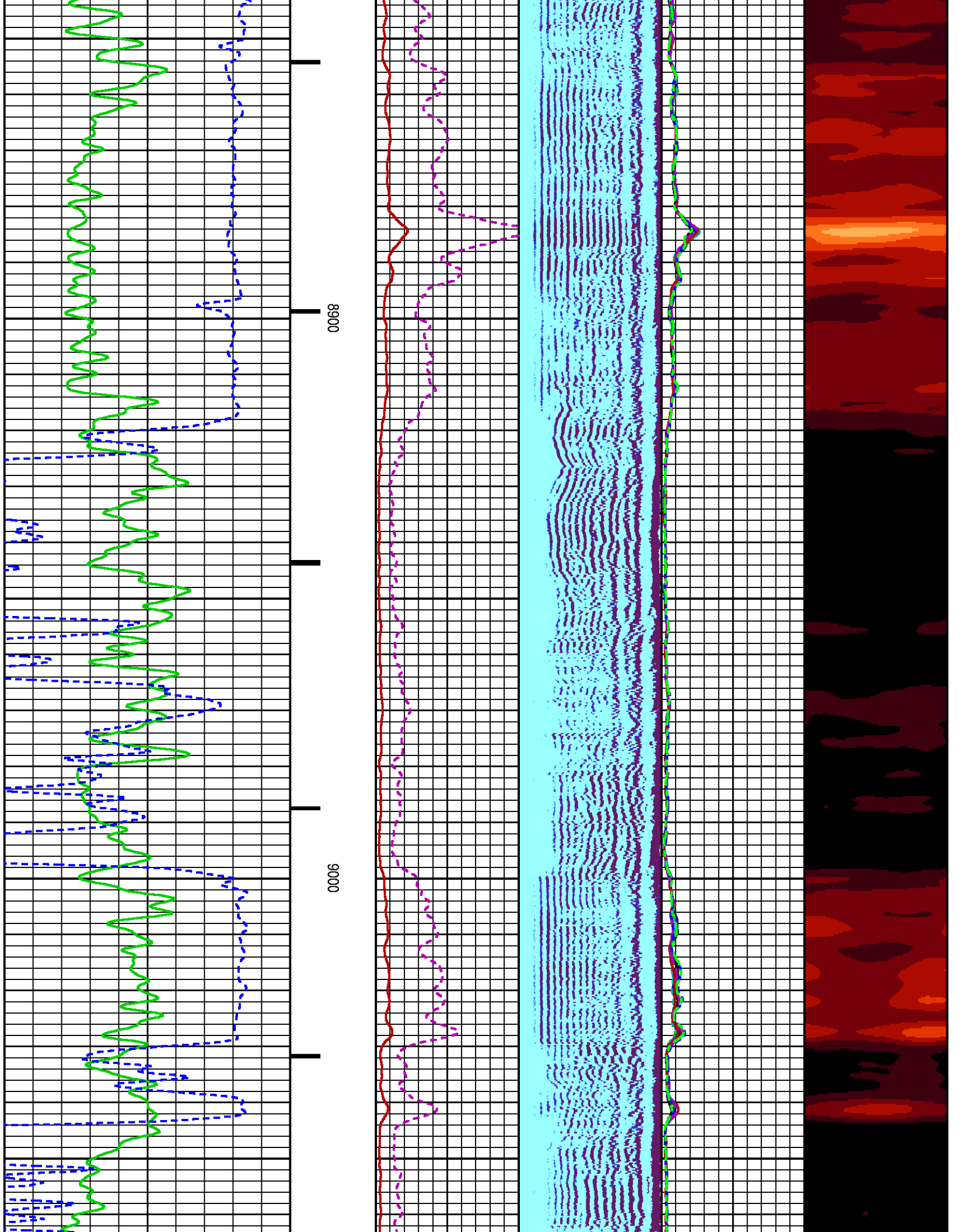


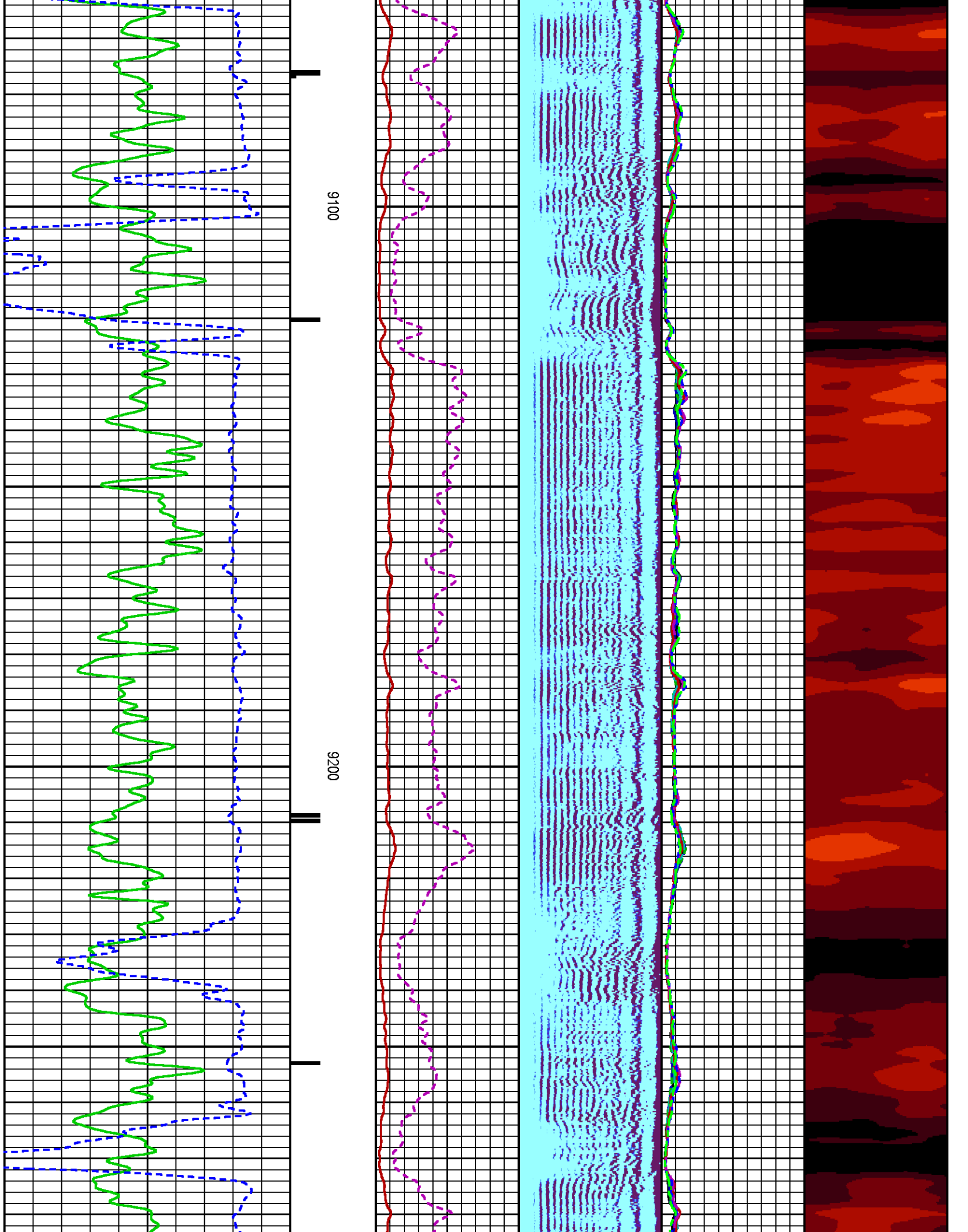


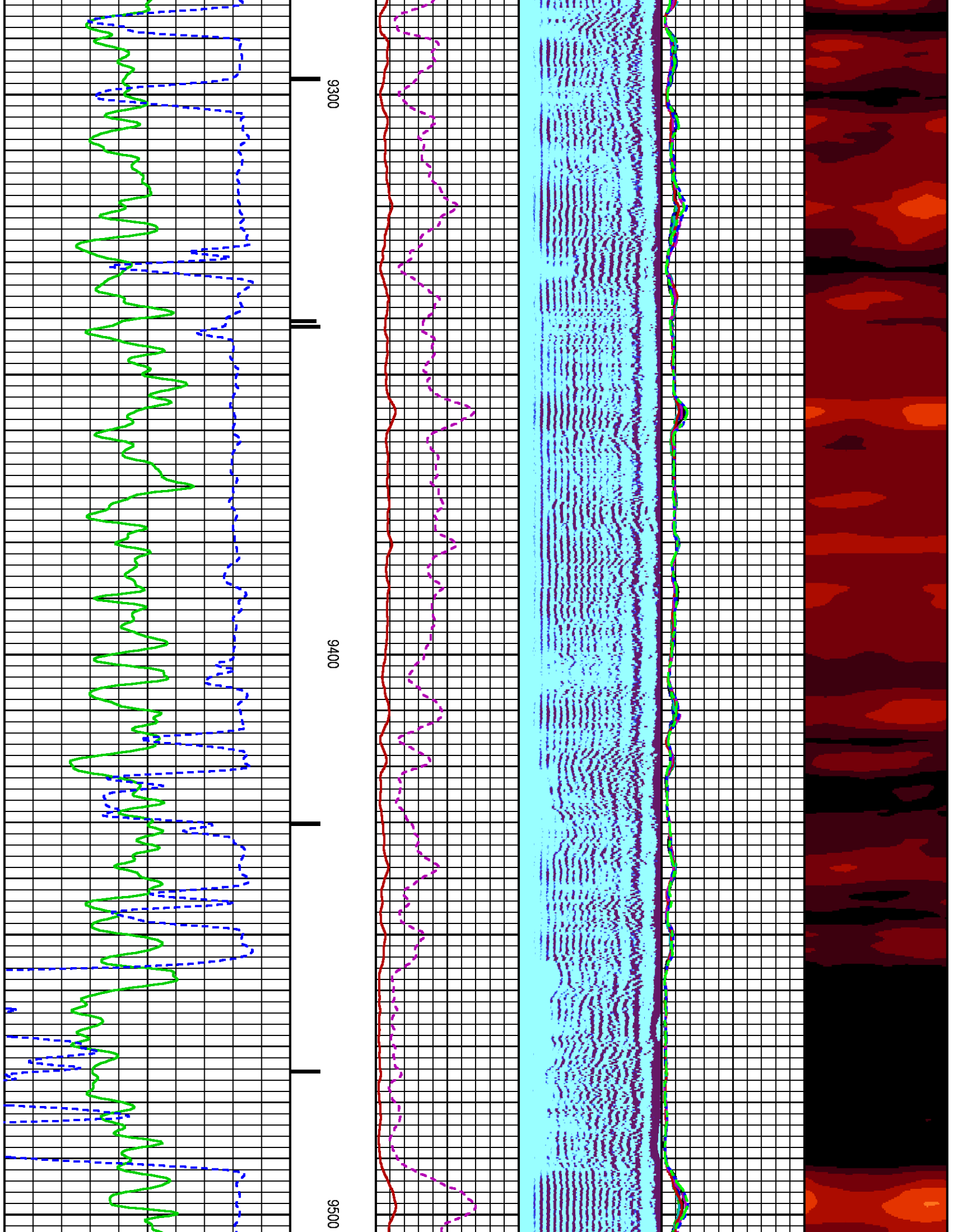


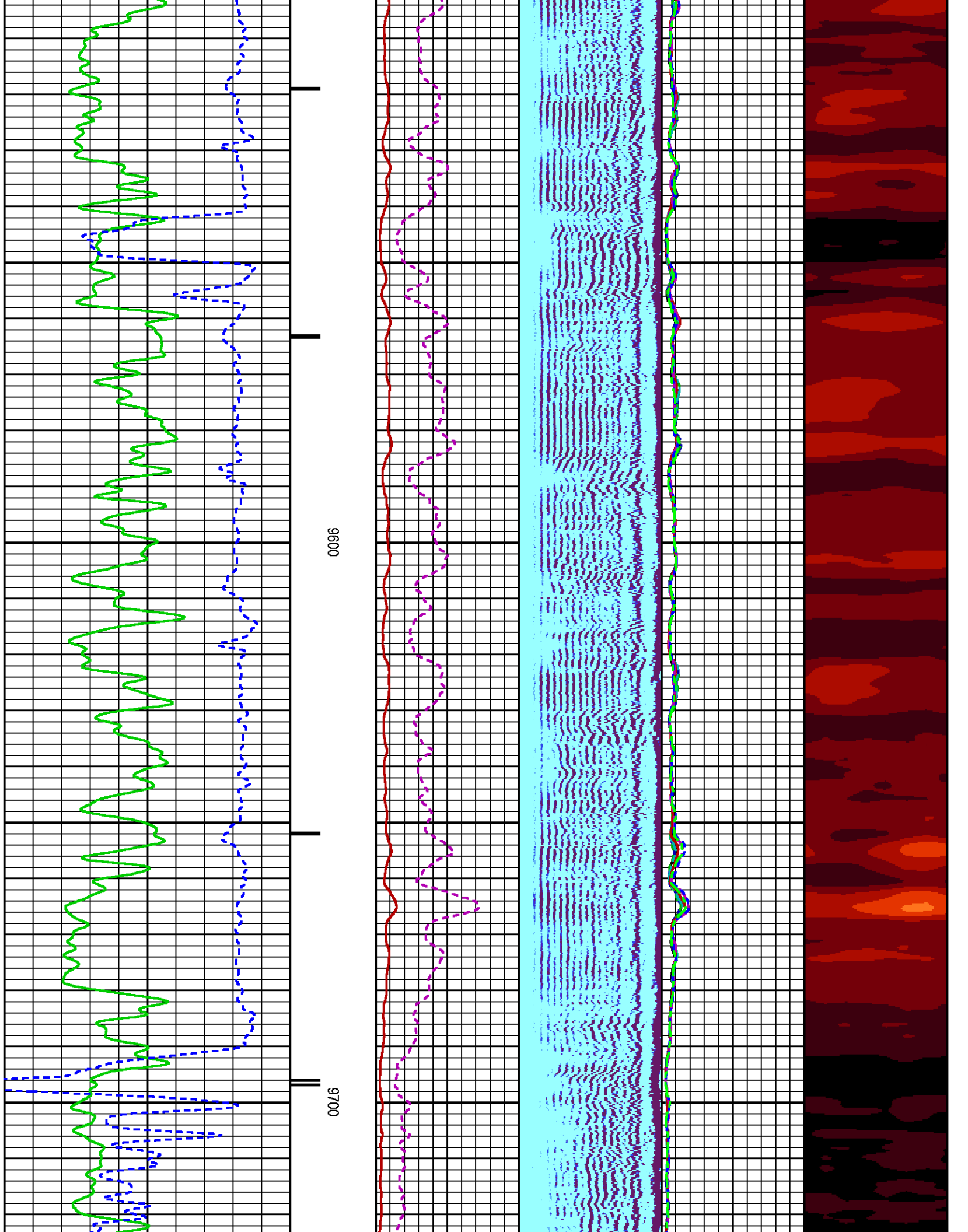


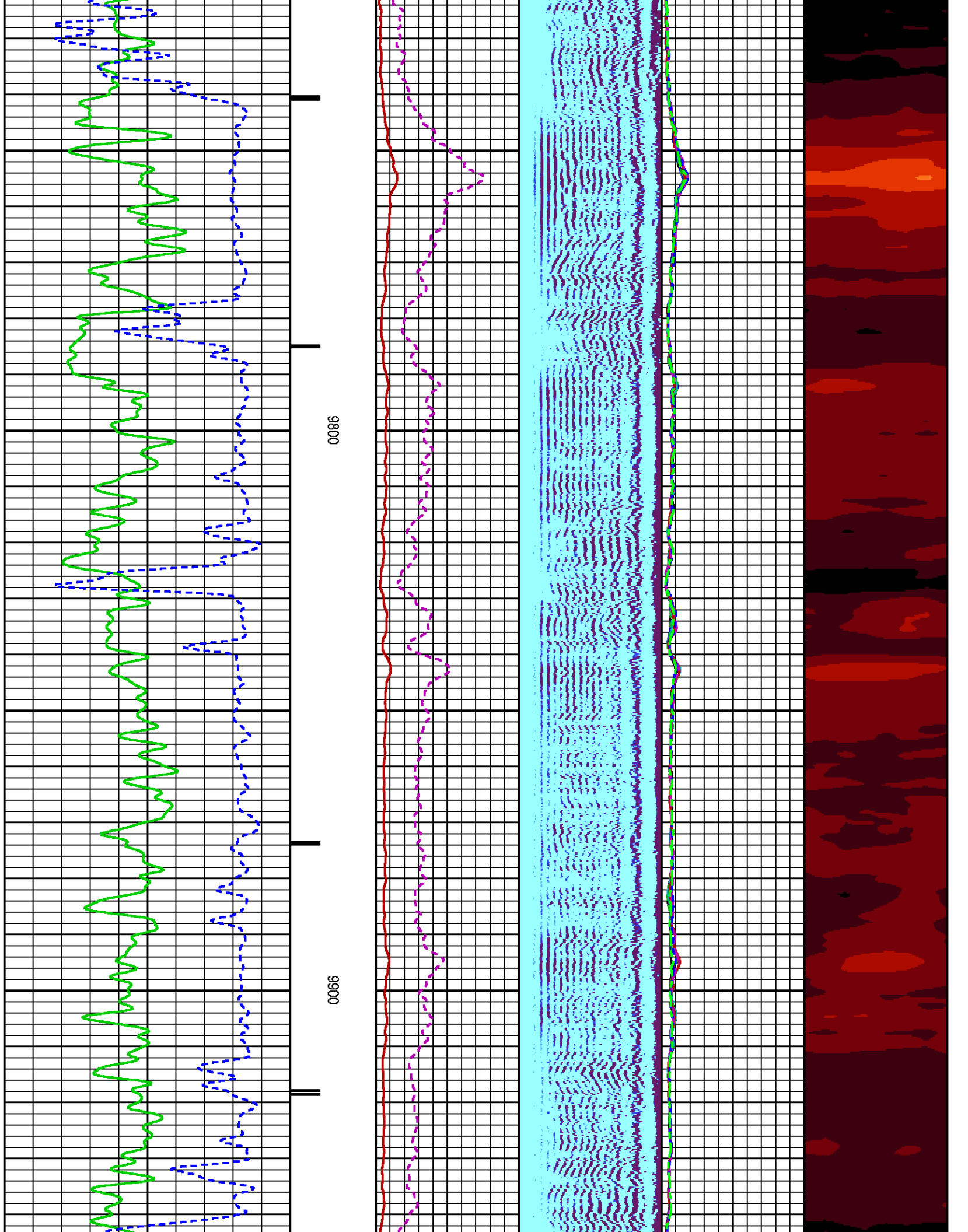


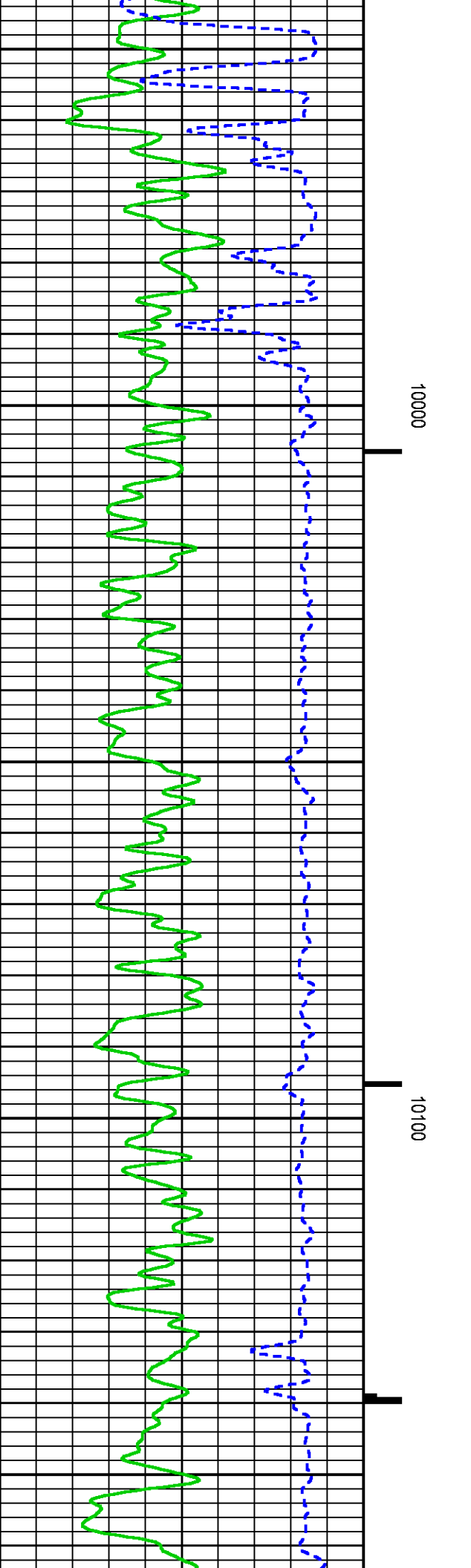
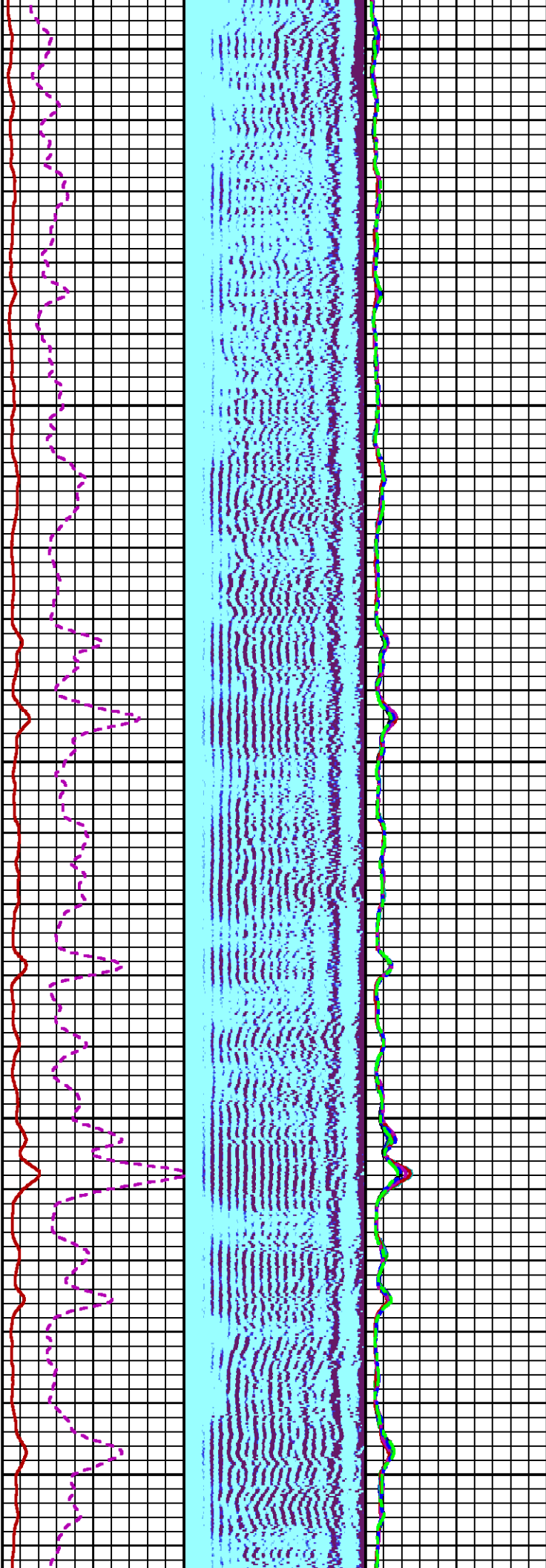


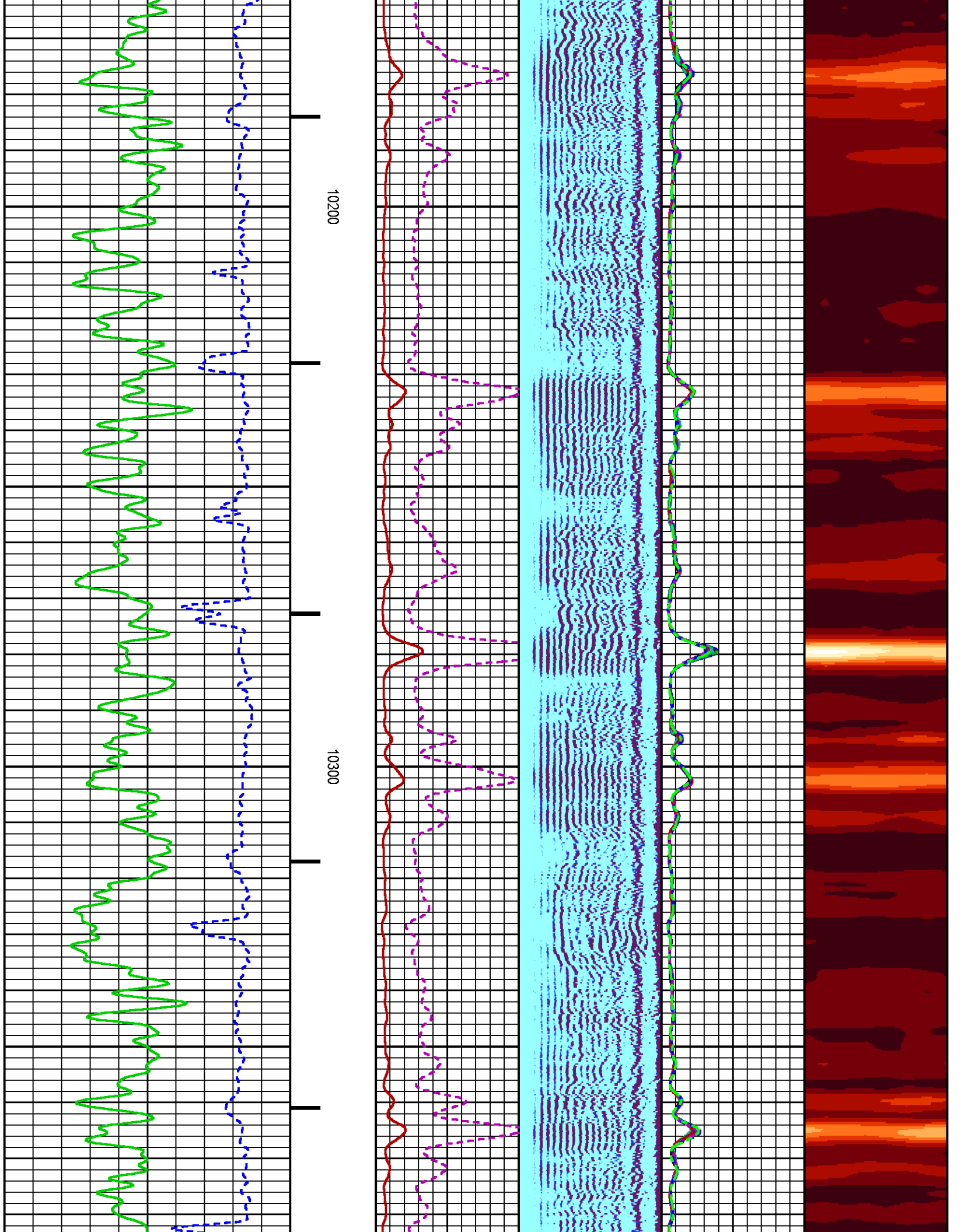


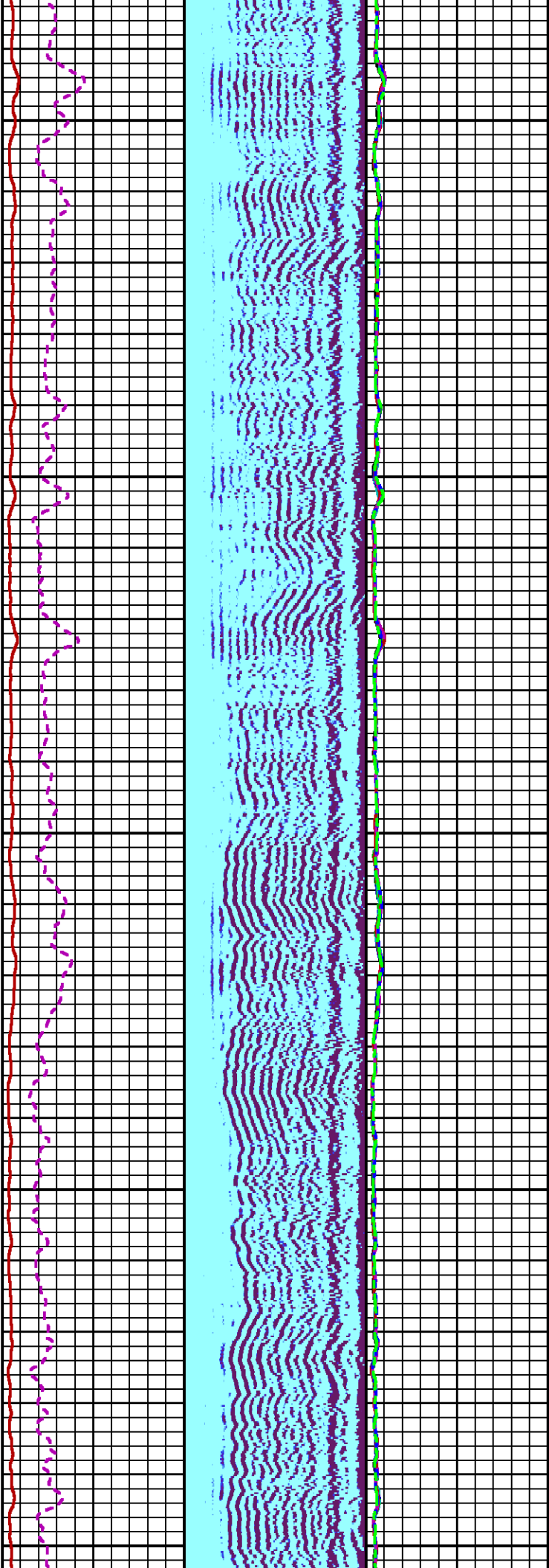








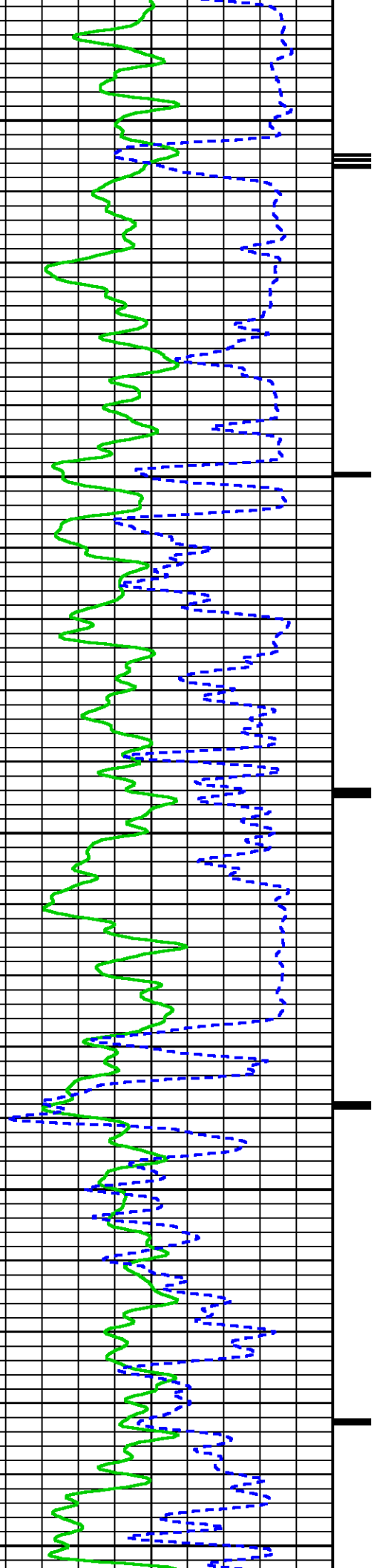


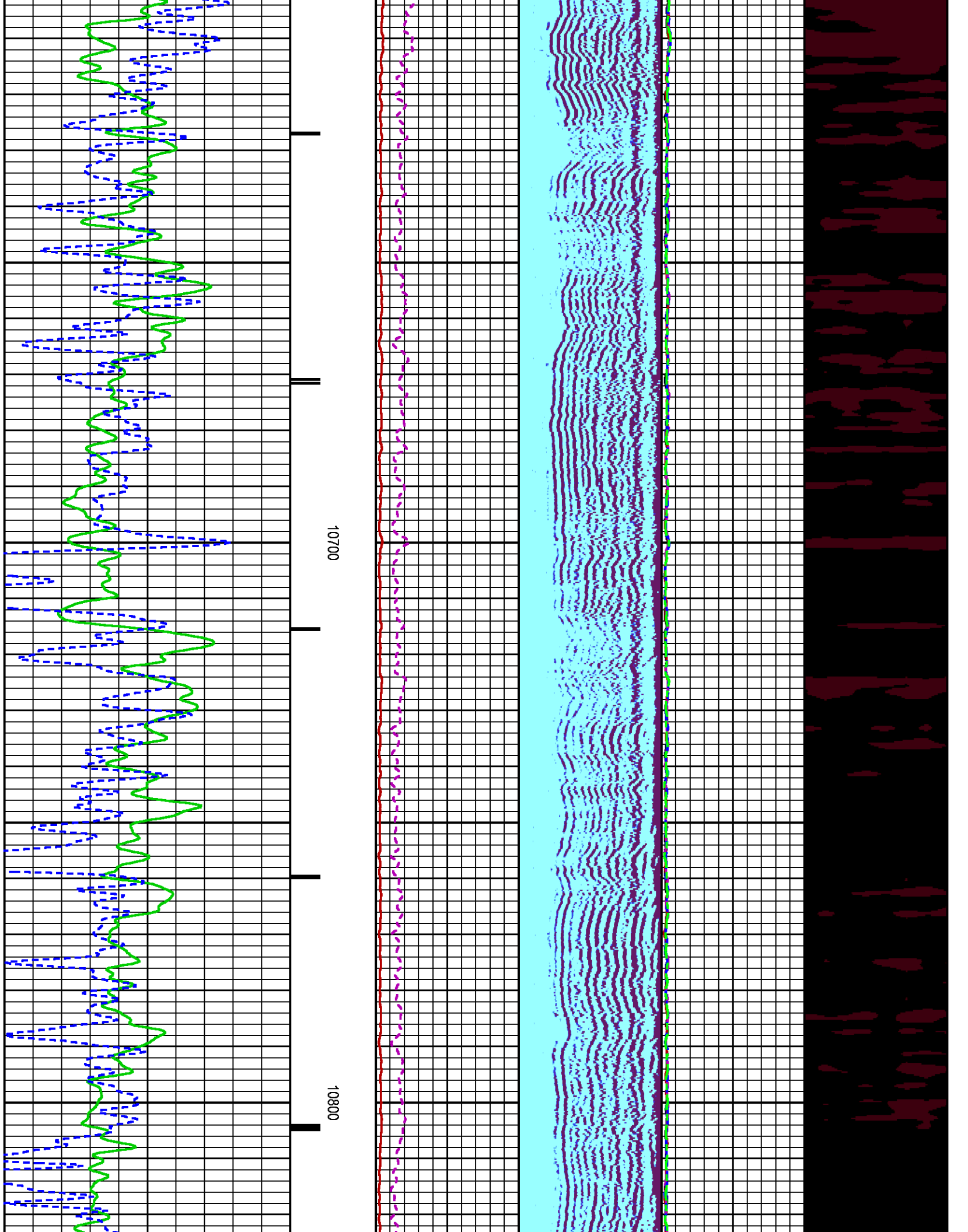


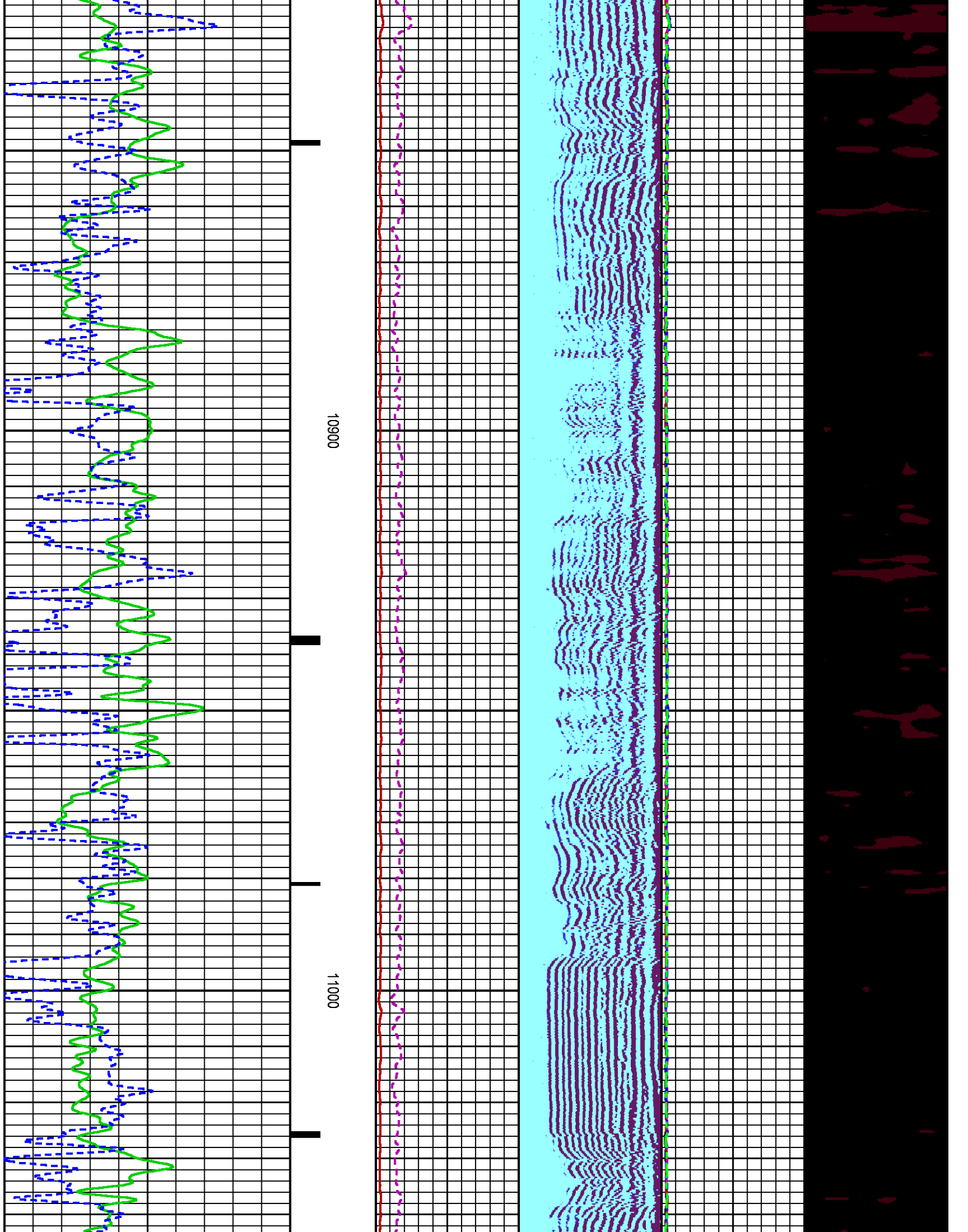
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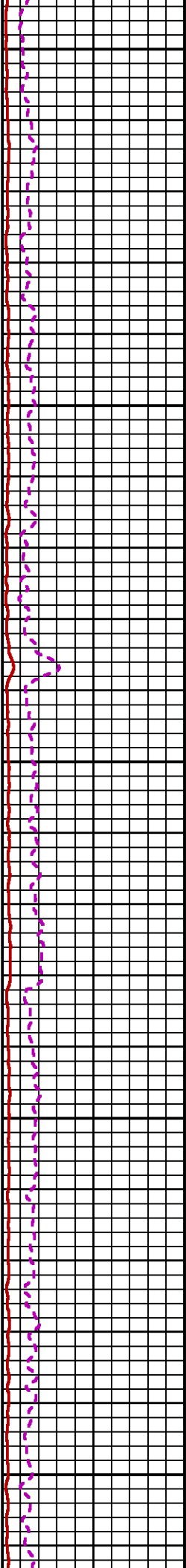
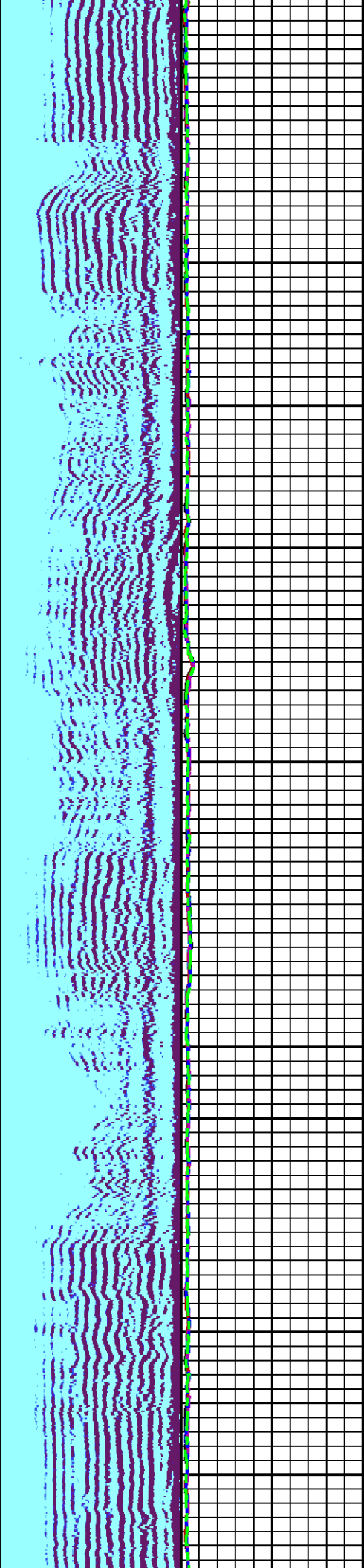
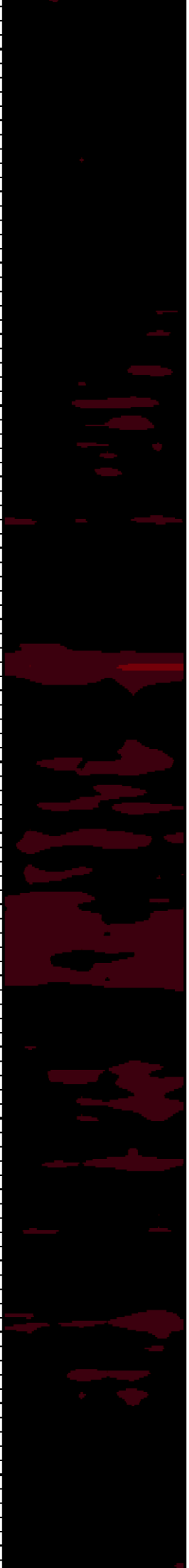
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10600



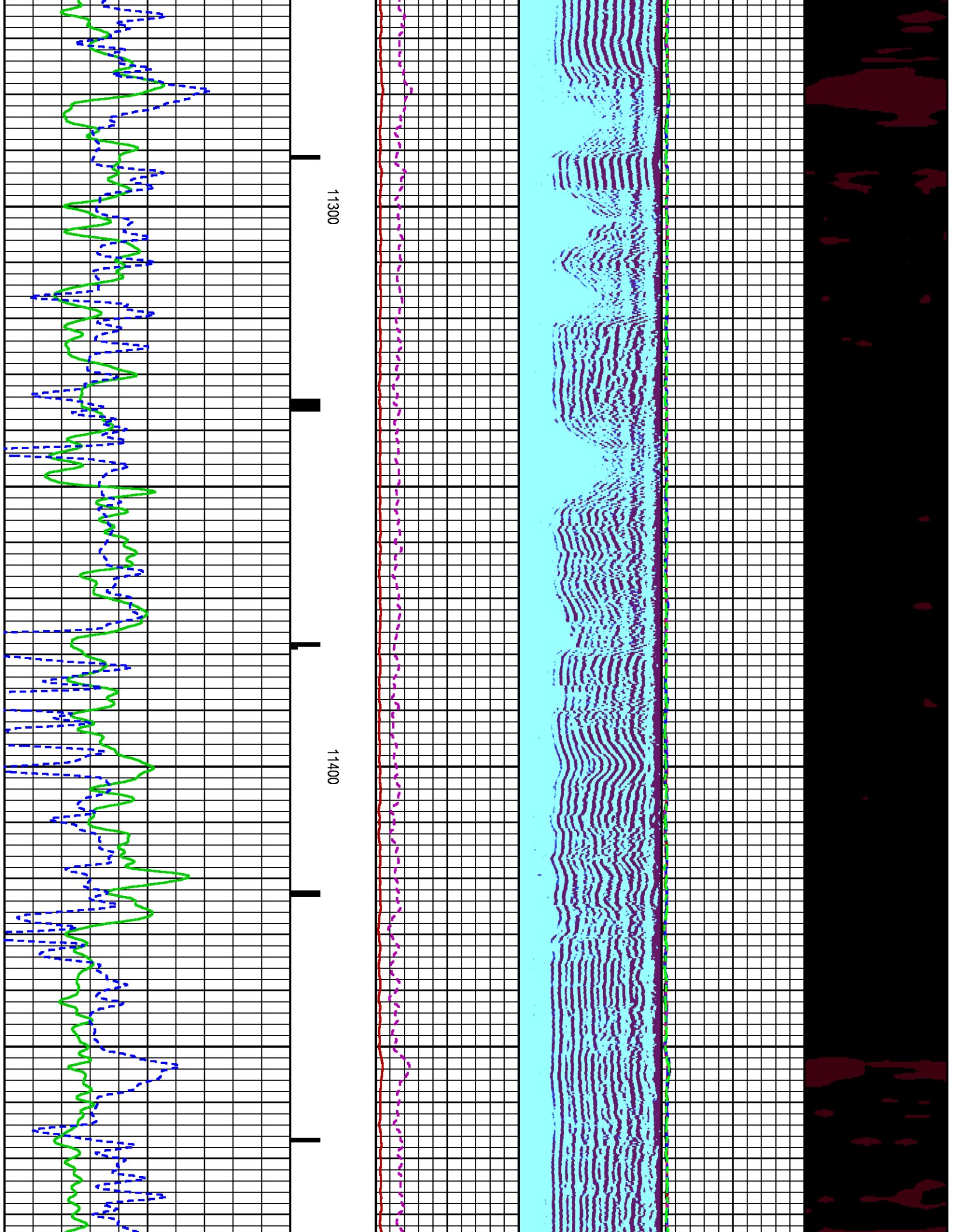


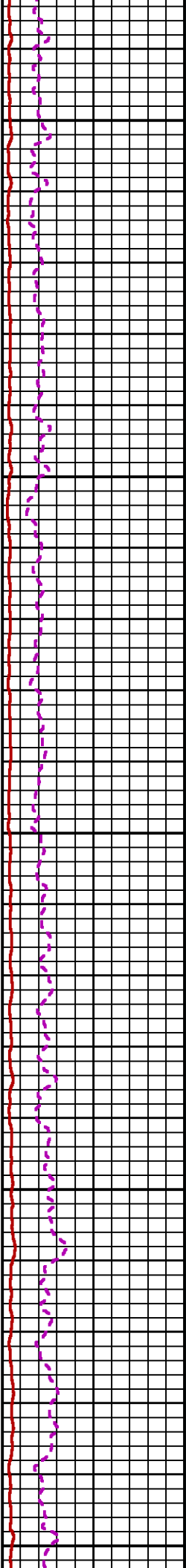
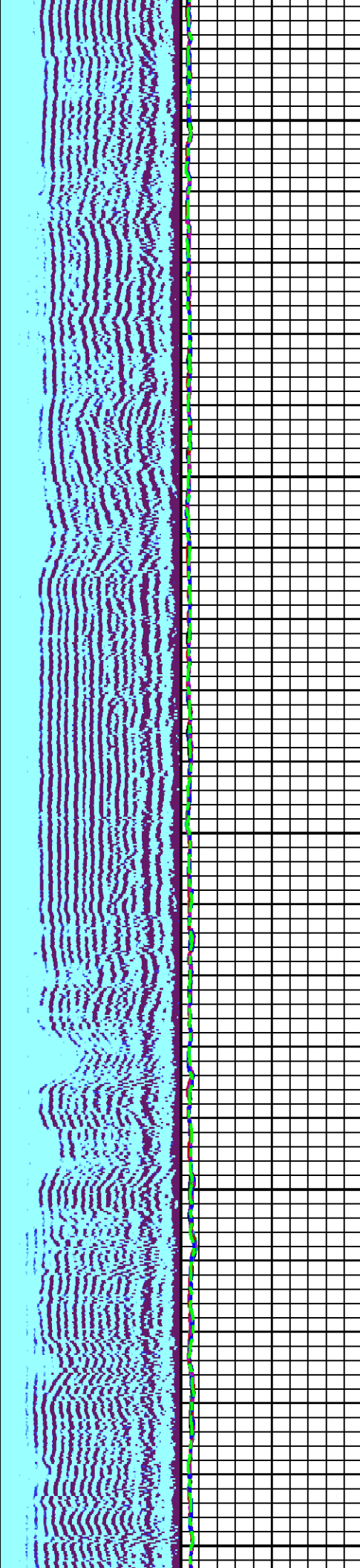




11100

11200

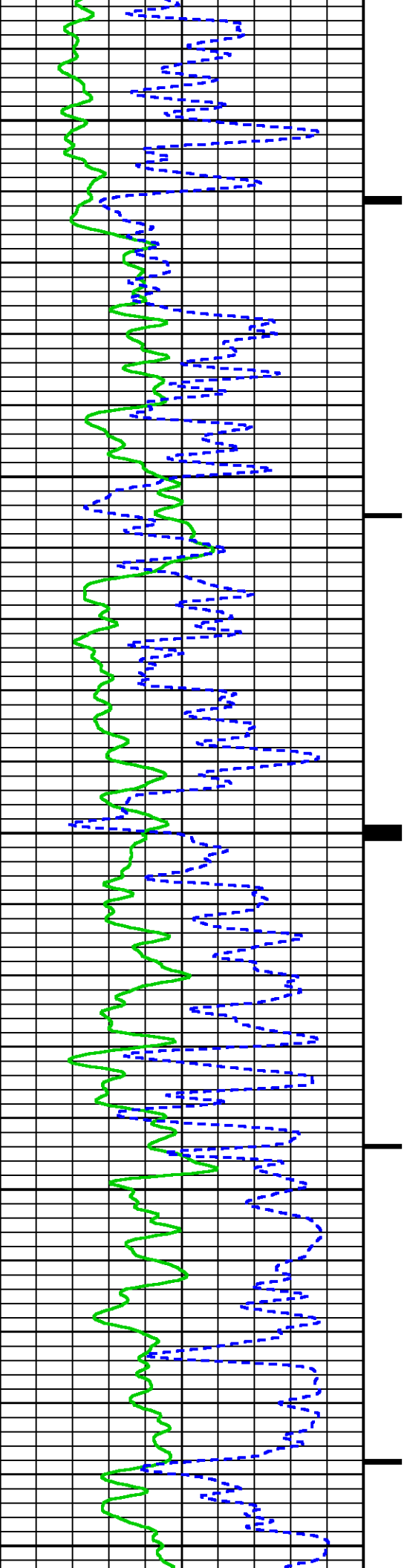


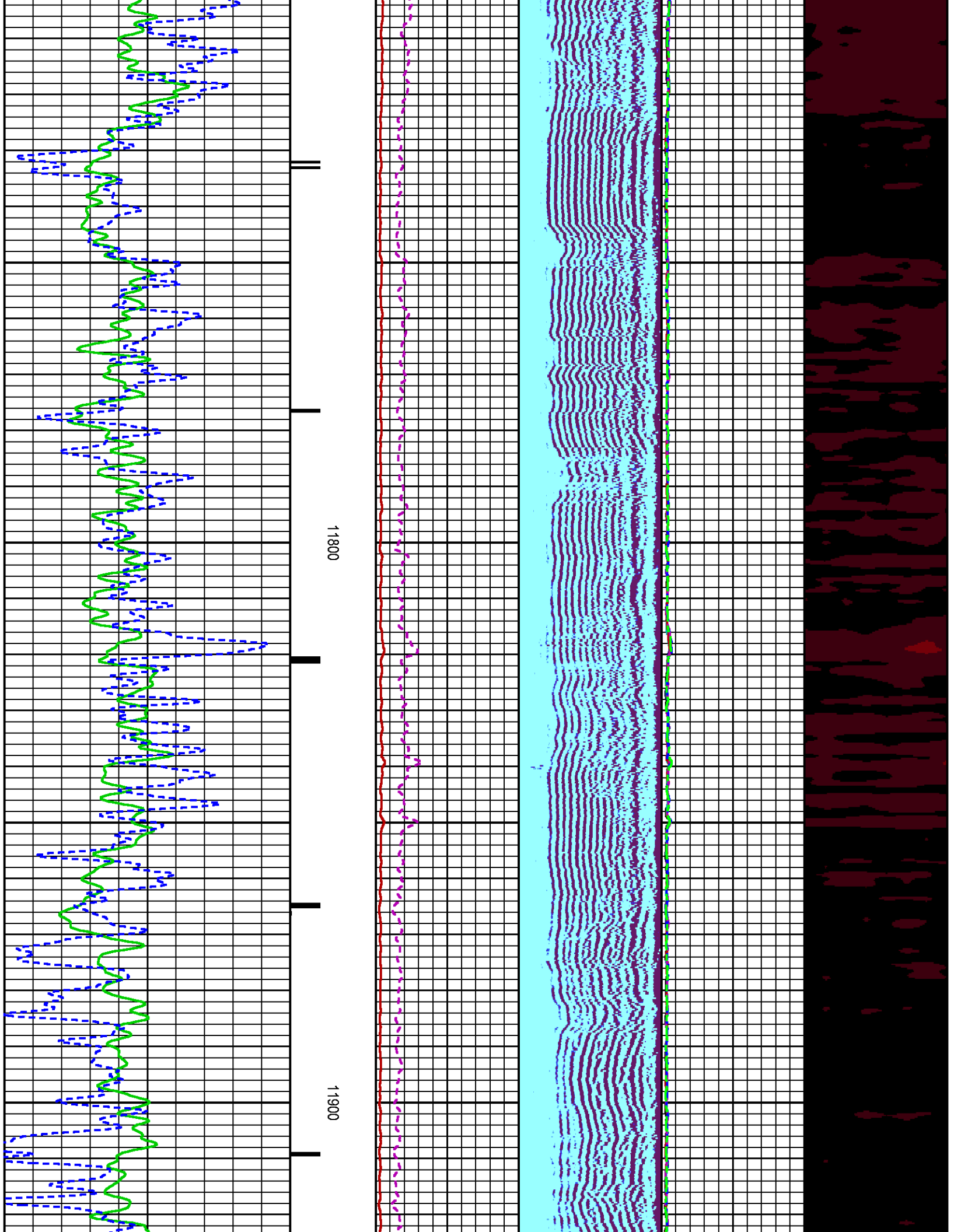


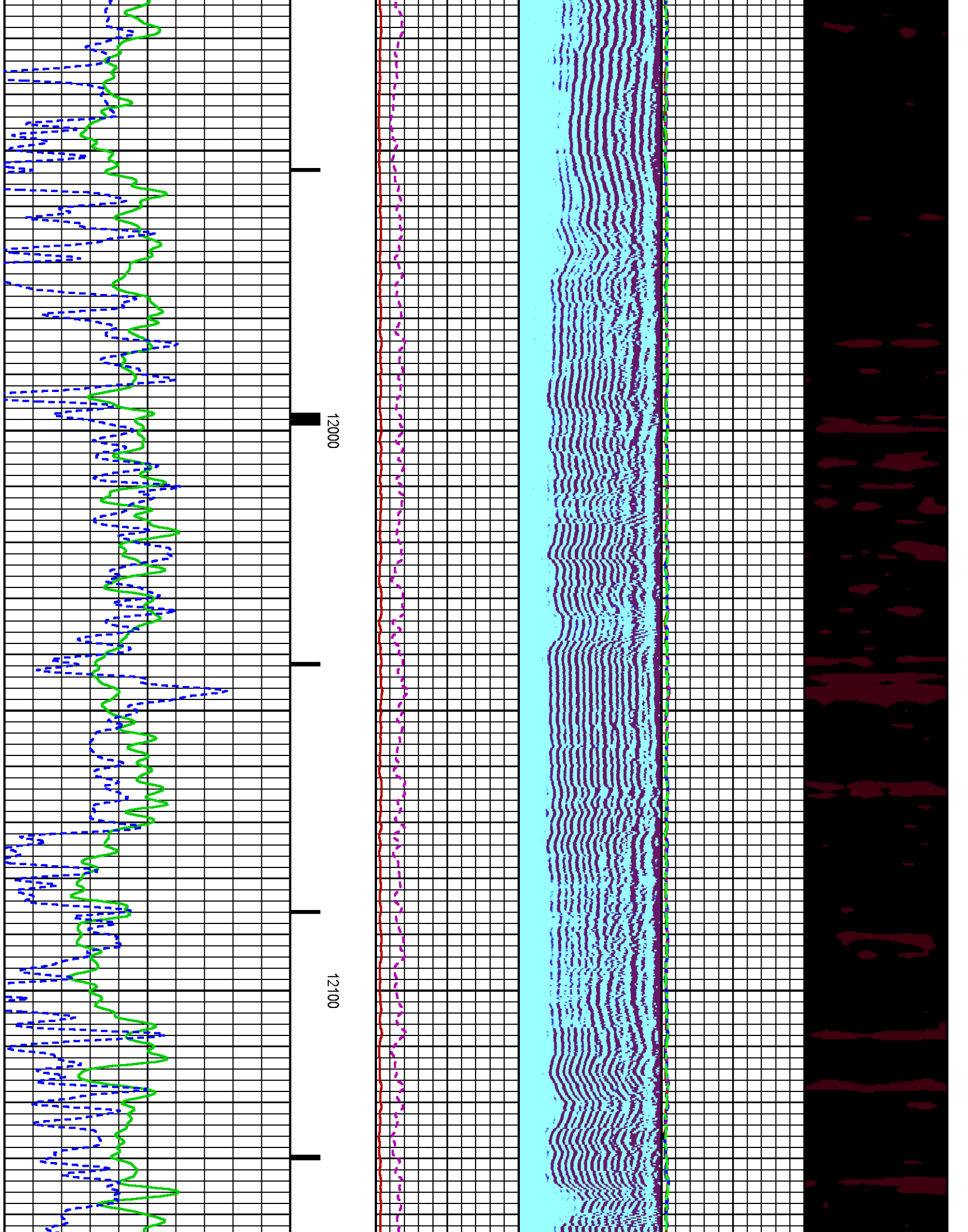
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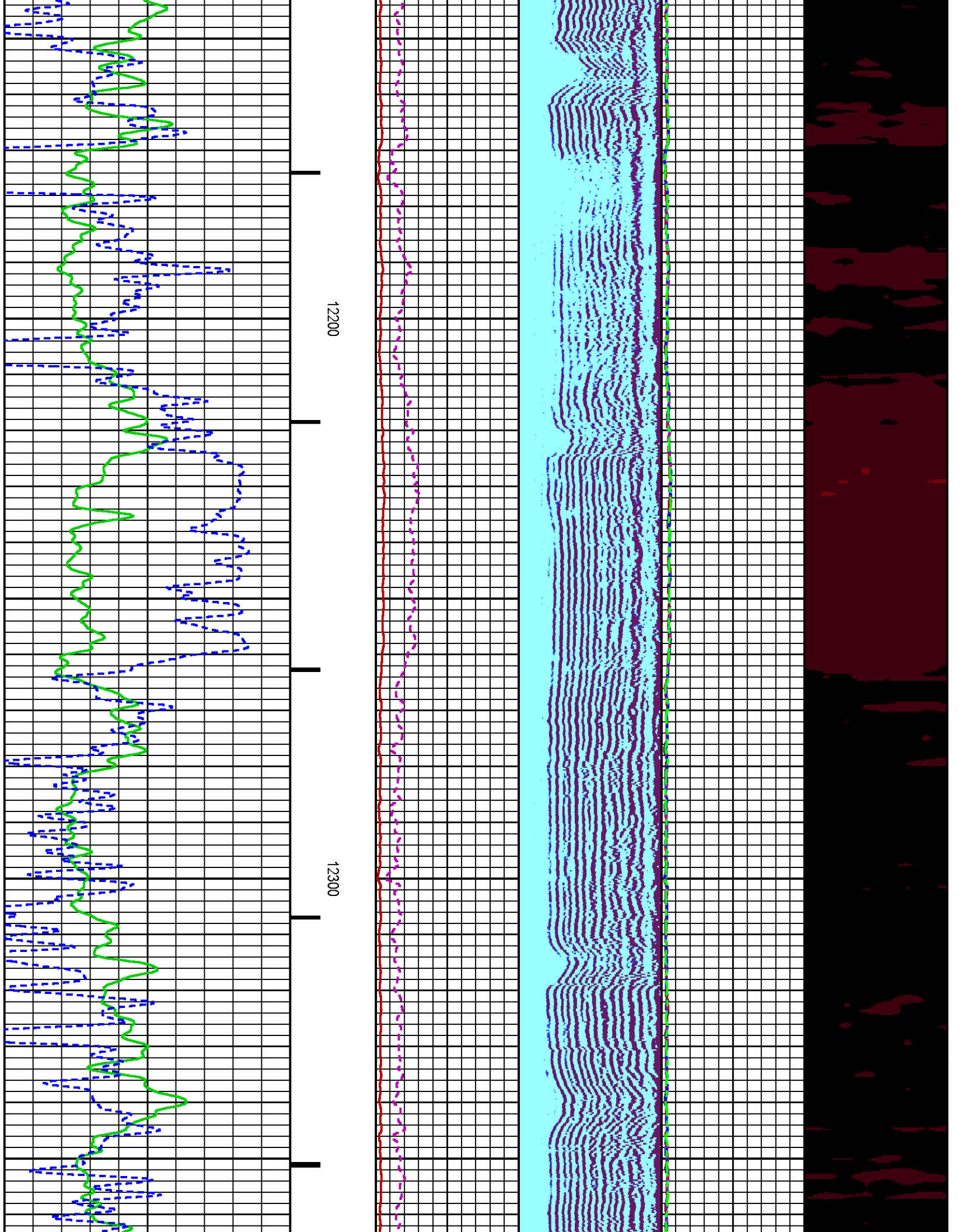
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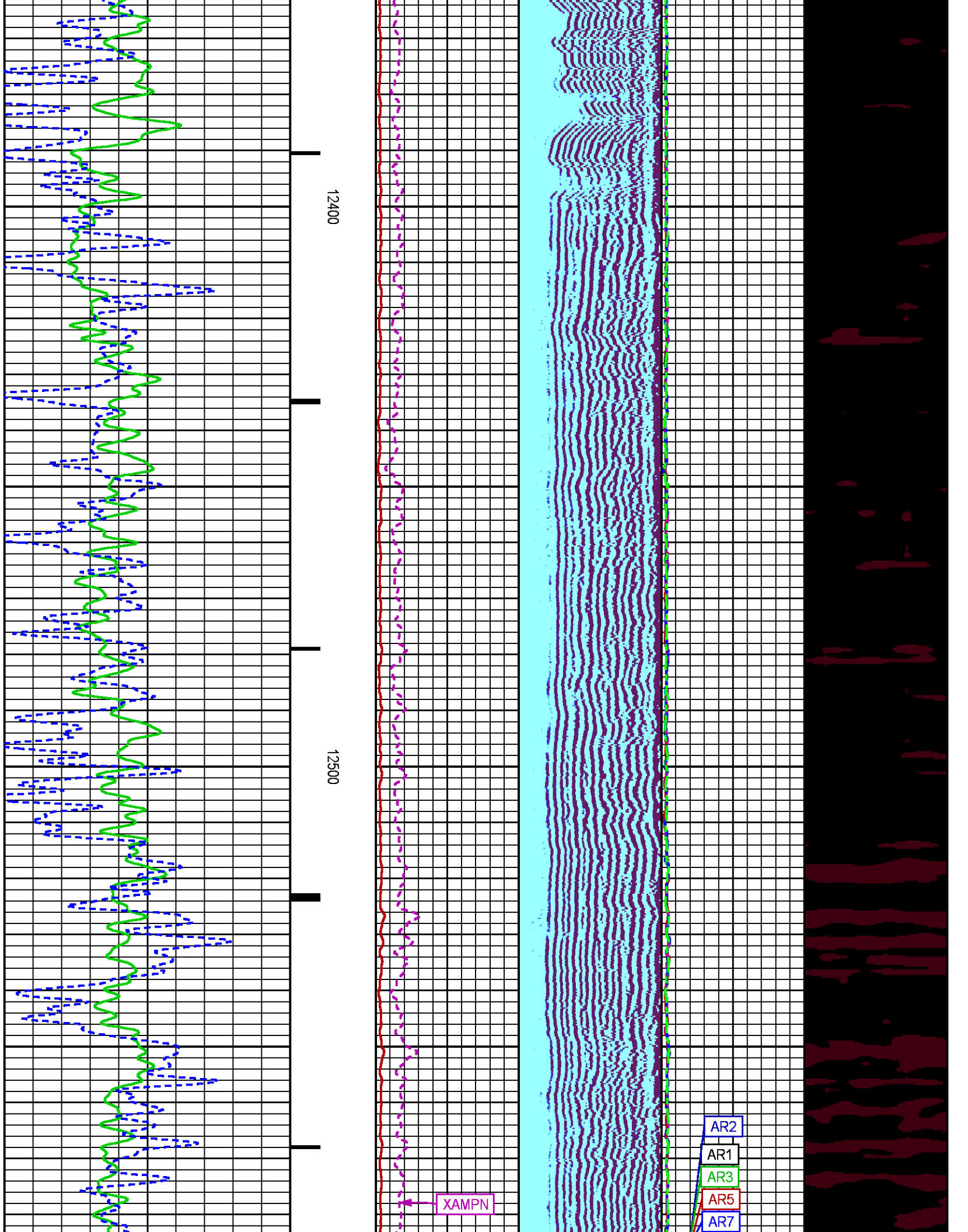
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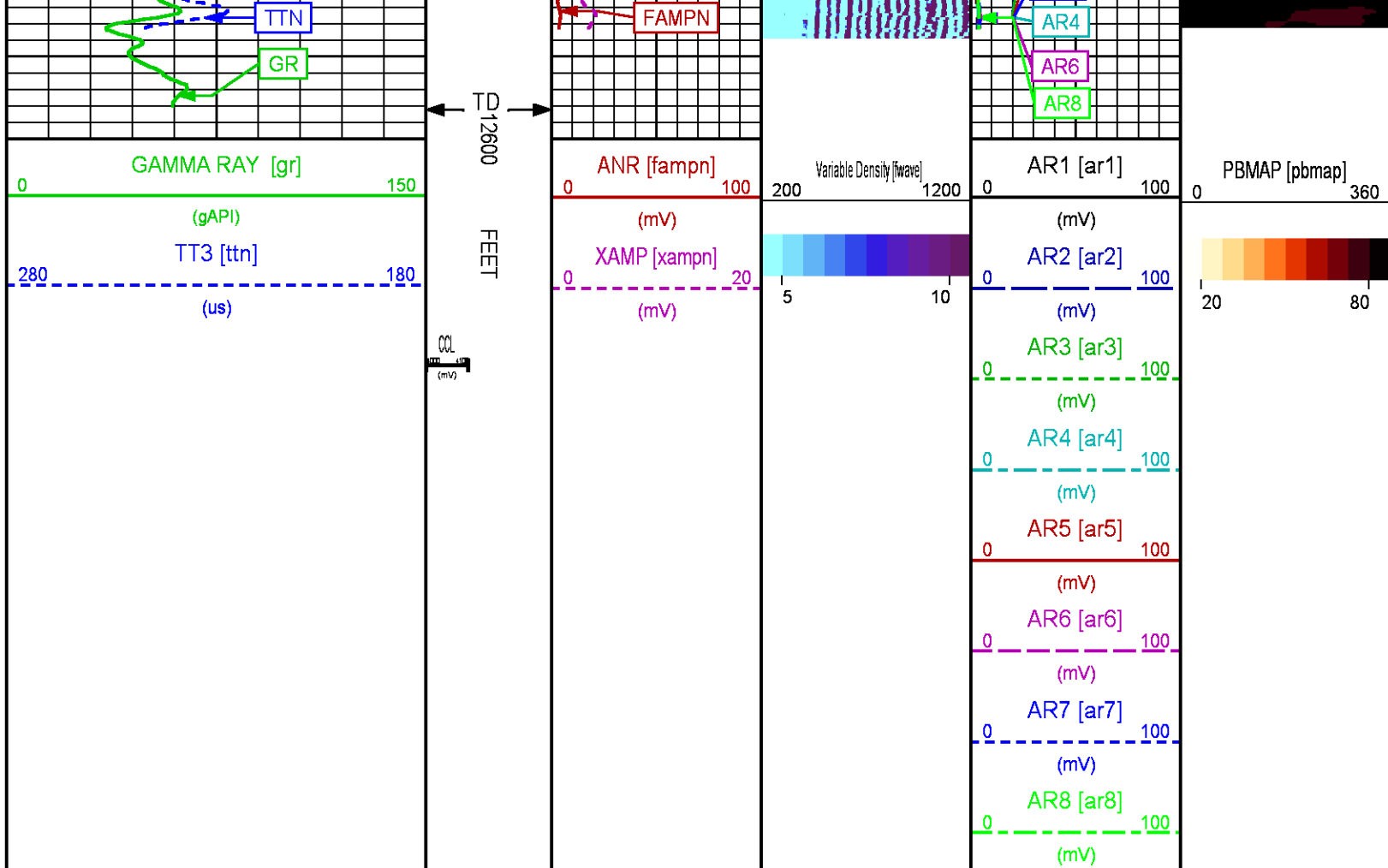












CALIBRATION / VERIFICATION SUMMARY

Source File: D:\dat1a\092551\012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Thu Dec 11 11:50:34 2014

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)	0.26	0.29	0.16	0.25	0.13	0.07	0.05	0.13	0.30	1.58	-0.31
AMP FLUID (mV)	85	84	83	84	84	84	85	85	84	112	83

TT (us)

219

220

219

218

217

217

217

218

220

328

220

M FACTOR

1.19

1.20

1.20

1.20

1.20

1.19

1.18

1.18

1.19

1.36

1.19

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Fri Dec 12 16:26:48 2014

DAYS SINCE CAL: 1

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	-0.01	0.03	0.06	0.09	0.02	-0.03	0.02	0.02	0.09	0.08	0.02
AMP AIR	2.51	2.31	2.31	2.49	2.64	2.61	2.56	2.65	2.28	4.36	99.58

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.19	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209

DATE/TIME PERFORMED: Fri Dec 12 13:50:38 2014

UNIT #: 3885TD Z004271

CALB JIG #: 4702NK WA612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	158.53	746.53	588.0	0.315	49.88	234.88	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 10580209

DATE/TIME PERFORMED: Fri Dec 12 13:55:38 2014

UNIT #: 3885TD Z004271

VERI JIG #: 4702NK WA612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	164.98	742.44	0.315	51.91	233.59	181.69
						175.00 195.00

INSTRUMENT CONFIGURATION

Source File: D:\dat1a\092551\012g~tdg.meta

A3 CABLEHEAD

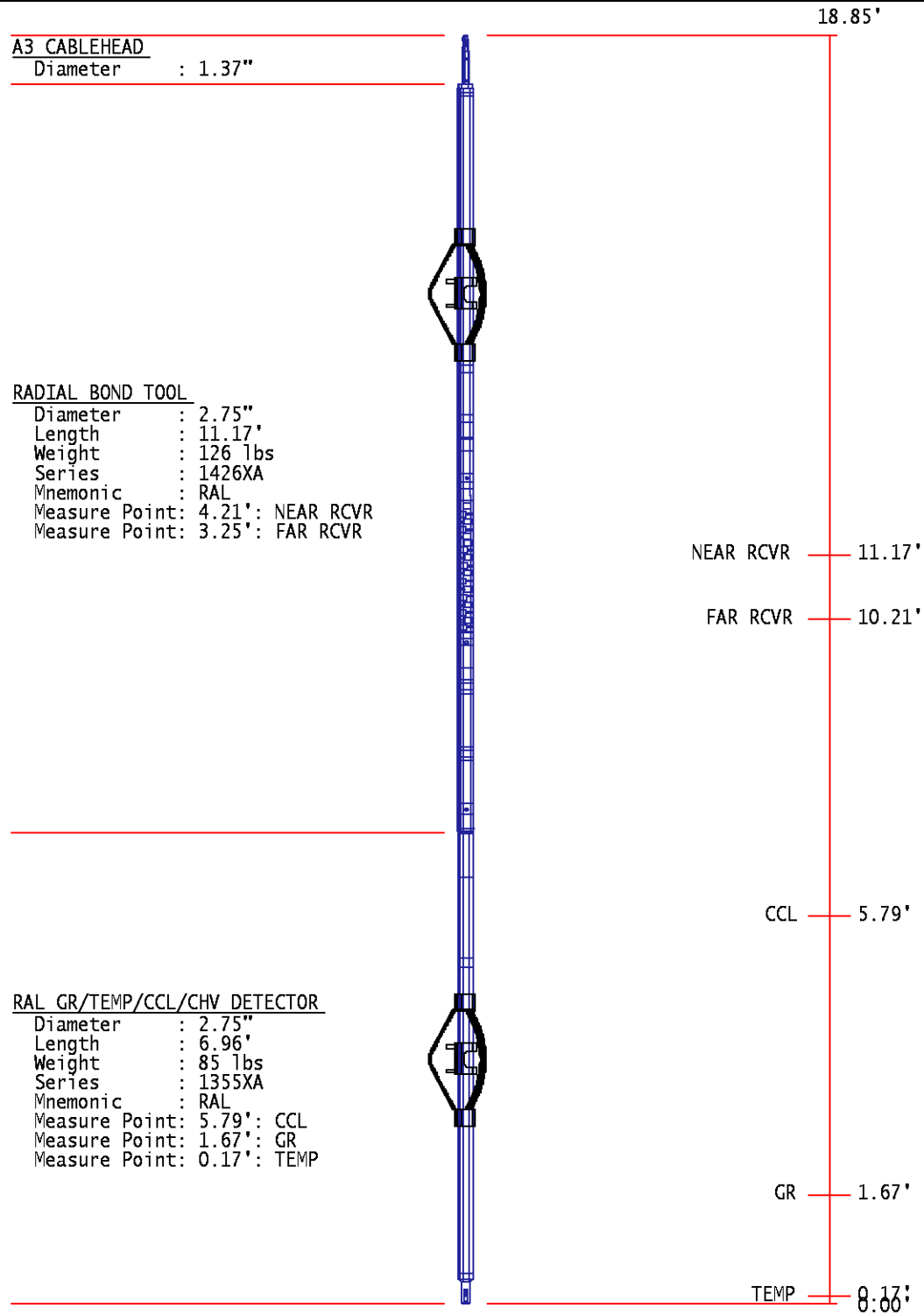
Diameter : 1.37"

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 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



TOTAL LENGTH: 18.85'
TOTAL WEIGHT: 227 lbs
MAX DIAMETER: 0'4.00"

	COMPANY	WPX ENRGY		FILE NO:	
	WELL	FEDERAL RGU 444-23-198			CH092551
	FIELD	SULPHUR CREEK		API NO:	
	COUNTY	RIO BLANCO	STATE	COLORADO	05103121390000
LOCATION:		ELEVATIONS:		23 1S 98W	
SHL: 1028' FSL & 645' FEL		KB 6592 FT		RGU 43-23-198 PA	
BHL: 477' FSL & 631' FEL		DF		AZTEC 1000	
SEC 23 TWP 1S RGE 98W		GL 6567 FT			
		DATE		12-Dec-2014	

