



RADIAL CEMENT BOND LOG

FILE NO: CH145360
API NO: 05077105190000
COMPANY: LARAMIE ENERGY LLC
WELL: BCU 0993-21-06E
FIELD: BUZZARD CREEK
COUNTY: MESA STATE: COLORADO

Ver. 4.11

LOCATION:

SHL: 1358.0' FNL & 1322.0' FEL
BHL: 1358.0' FNL & 1322.0' FEL

OTHER SERVICES
RPM

SEC 21 TWP 9S RGE 93W

PERMANENT DATUM GL ELEVATION 7257 FT
LOG MEASURED FROM KB 30 FT ABOVE P.D.
DRILL. MEAS. FROM KB
ELEVATIONS:
KB 7287 FT
DF
GL 7257 FT

DATE	27-NOV-2018
RUN	1
TRIP	1
SERVICE ORDER	US145360J
DEPTH DRILLER	9090 FT
DEPTH LOGGER	9018 FT
BOTTOM LOGGED INTERVAL	9018 FT
TOP LOGGED INTERVAL	30 FT
TIME STARTED	09:30
TIME FINISHED	13:00
OPERATOR RIG TIME	3.5 HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	60 FT
LOGGED CEMENT TOP	1642 FT
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MIN
MAX. RECORDED TEMP.	267 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	ML-4291
LOCATION	GRAND JCT.
RECORDED BY	M. BAUKA
WITNESSED BY	NA

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.

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELLBORE*

OPERATION 1: RAL/GR/CCL RUN CENTRALIZED

OPERATION 2: RPM/GR/CCL RUN IN PNC-3D

LOGGED WITH 0 PSI ON WELLHEAD

SJ: 6394' - 6414'

SJ: 7454' - 7474'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	11871500	CENTRALIZED
1	1	GR/CCL	1355XA	11871507	CENTRALIZED

MAIN PASS 0 PSI

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017
Updates: 1,32

Plotted: Tue Nov 27 14:58:52 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BCU_0993-21-06E/p012g04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 15.000 ft BOTTOM DEPTH: 1696.000 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	0.00		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	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-66	us	"	"
	TOOL DELAY (str2*)	-66	us	"	"
	TOOL DELAY (str3*)	-66	us	"	"
	TOOL DELAY (str4*)	-66	us	"	"
	TOOL DELAY (str5*)	-66	us	"	"
	TOOL DELAY (str6*)	-66	us	"	"
	TOOL DELAY (str7*)	-66	us	"	"
	TOOL DELAY (str8*)	-66	us	"	"
	TOOL DELAY (strn*)	-66	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

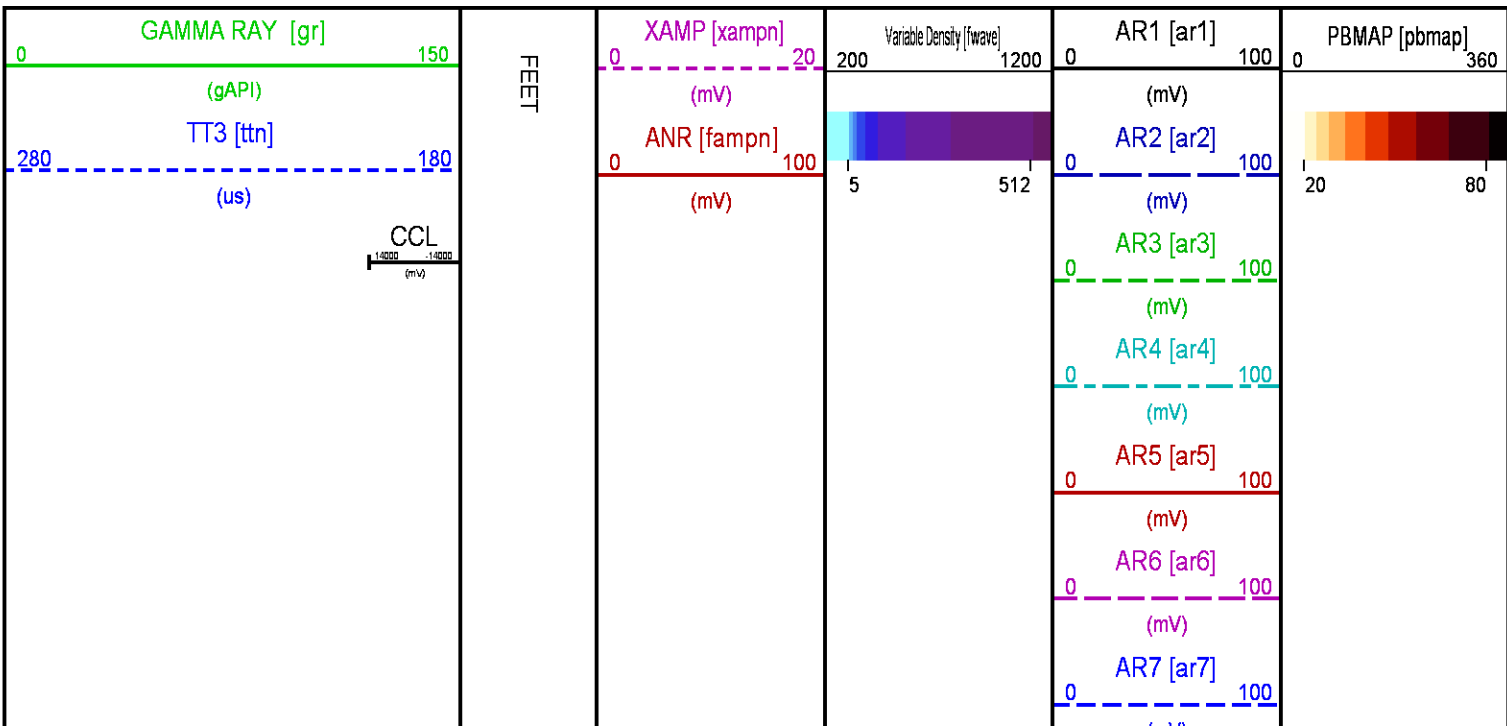
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R1
F1:AR2	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R2
F1:AR3	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R3
F1:AR4	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R4
F1:AR5	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R5
F1:AR6	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R6
F1:AR7	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R7
F1:AR8	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE T-R8
F1:CCL	Nov 27 12:41:11 2018	CASING COLLAR LOCATOR
F1:FAMPN	Nov 27 12:41:11 2018	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Nov 27 12:41:11 2018	FAR WAVE FORM
F1:GR	Nov 27 12:41:11 2018	GAMMA RAY
F1:PBMAP	Nov 27 12:41:11 2018	PERCENT BOND CEMENT MAP
F1:TTN	Nov 27 12:41:11 2018	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Nov 27 12:41:11 2018	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 : SysA:/dat1a/LARAMIE_BCU_0993-21-06E/BCU_0993-21-06E_RAL_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 18.25 - 9039.5 Feet

Data File 1 : F1 : SysA:/dat1a/LARAMIE_BCU_0993-21-06E/45_LARAMIE_BCU_0993-21-06E_RAL_MAIN.xtf
Created On : Nov 27 12:41:11 2018
Company : LARAMIE ENERGY LLC
Well : BCU 0993-21-06E
Field : BUZZARD CREEK
File Interval : 4.25 - 9039.5 Feet
OCT : p012g



WELLHEAD

FLUID LEVEL

GR

TTN

CCL

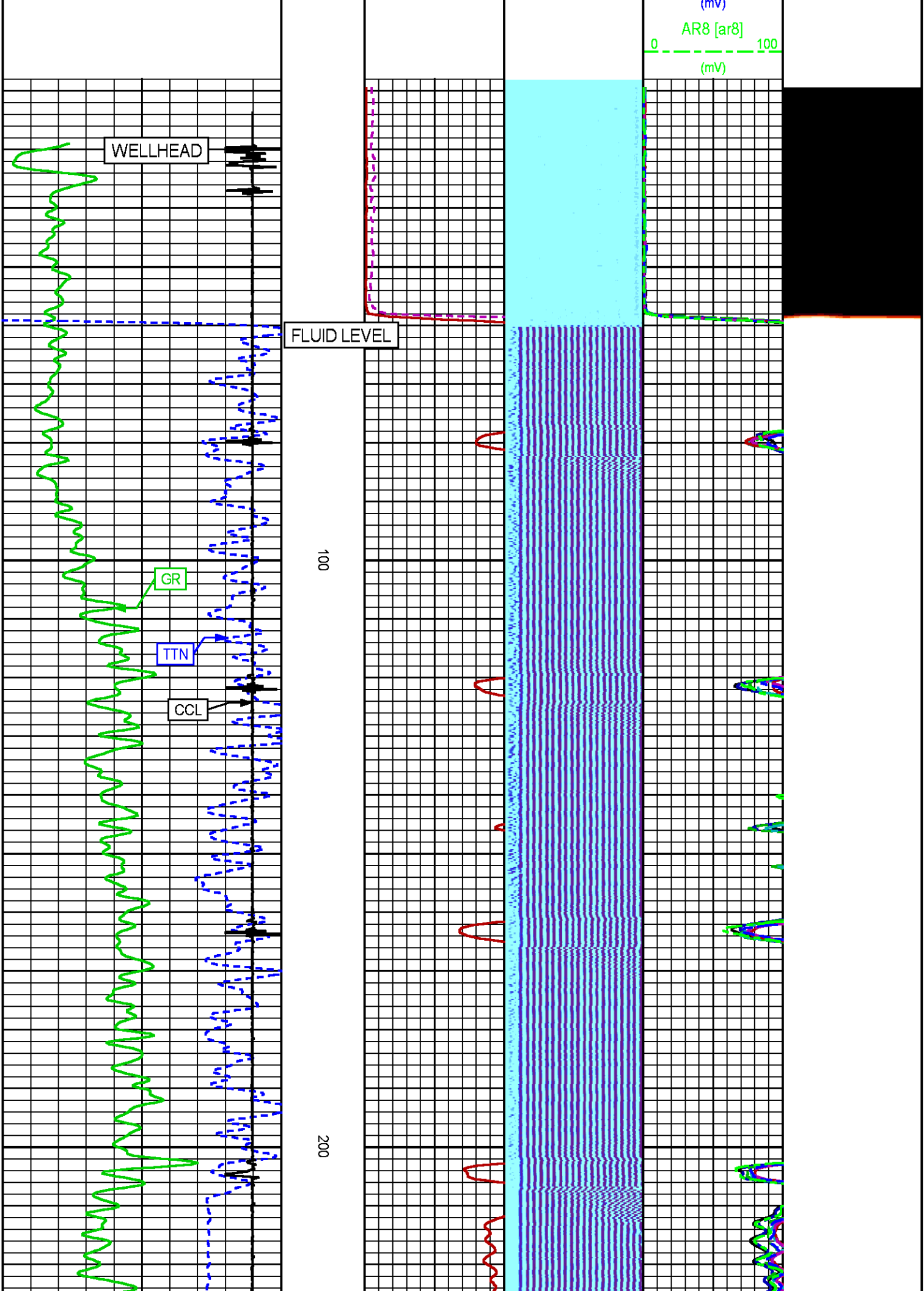
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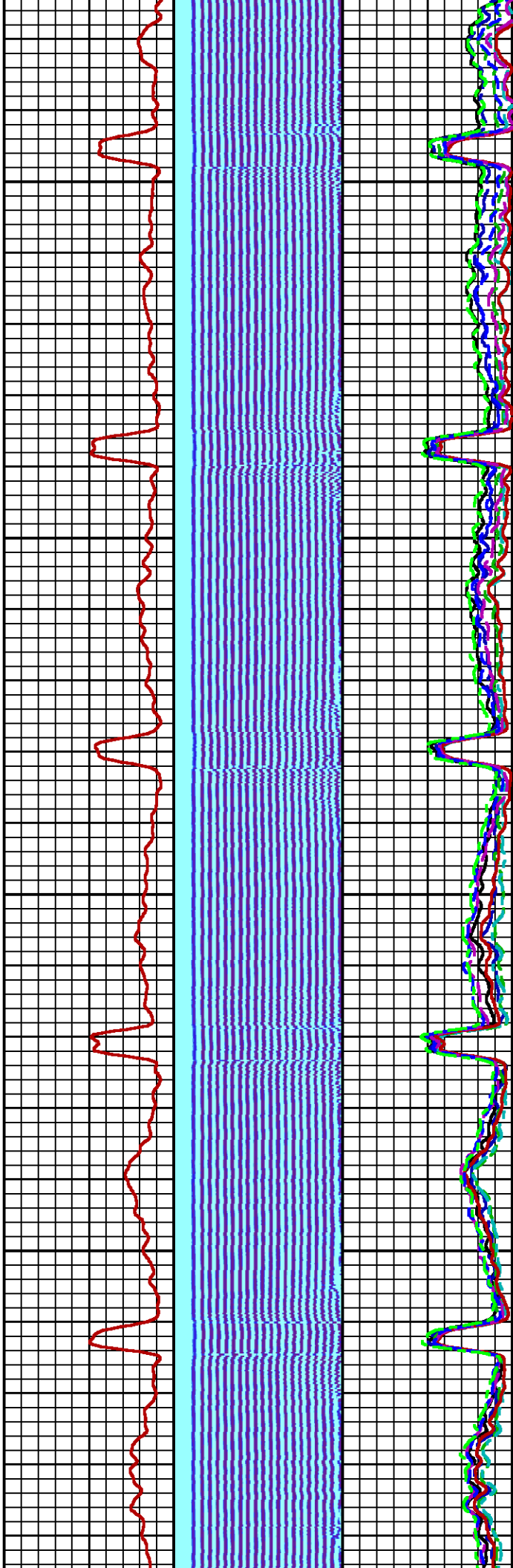
200

AR8 [ar8]

(mV)

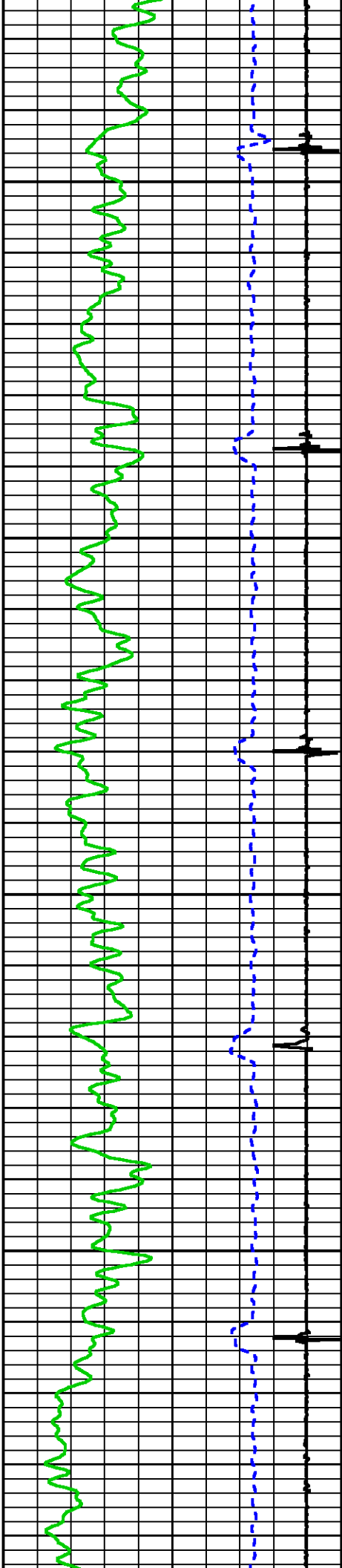
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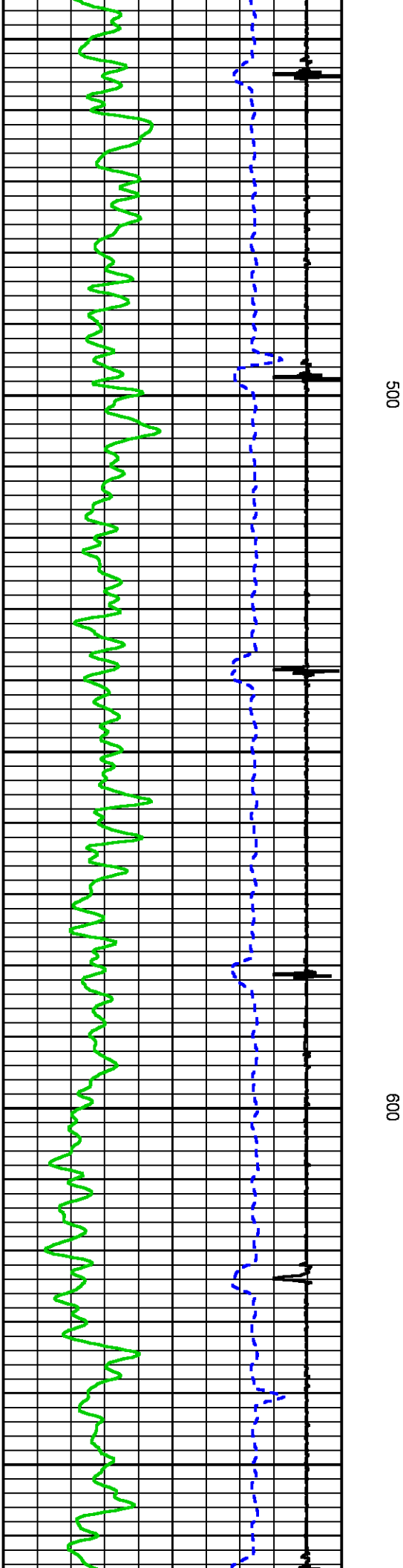
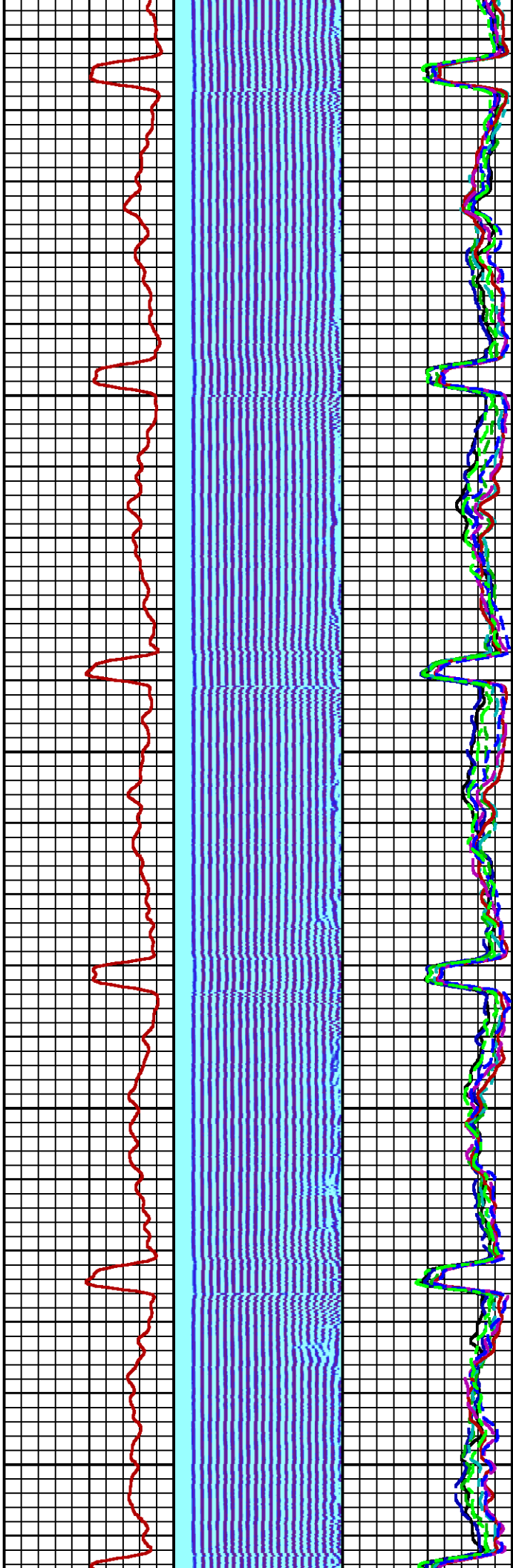


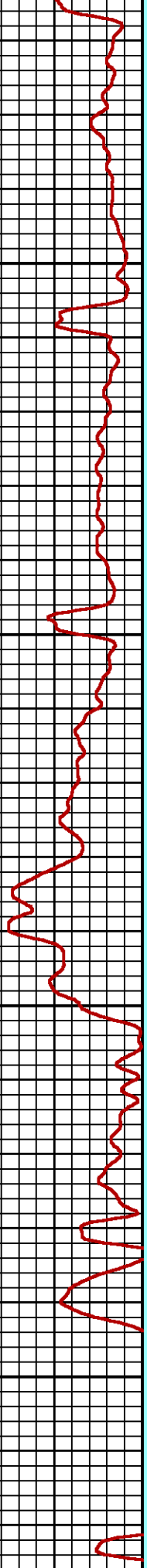
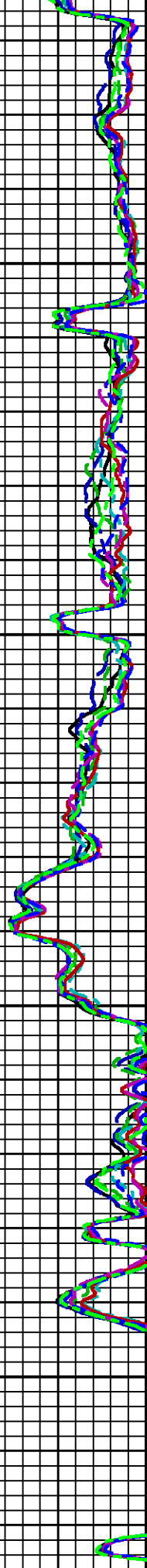


300

400

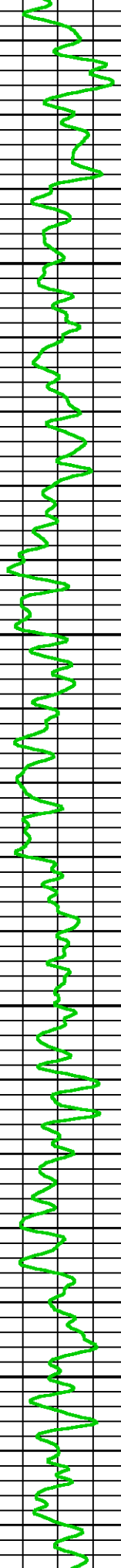
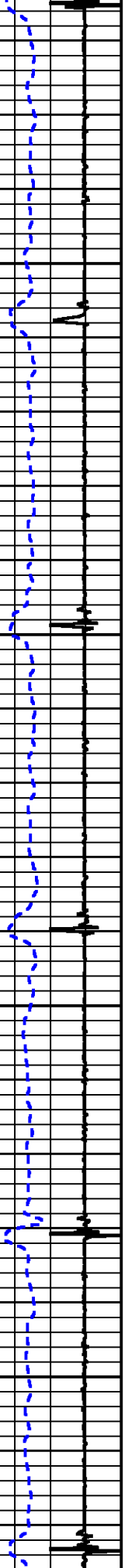


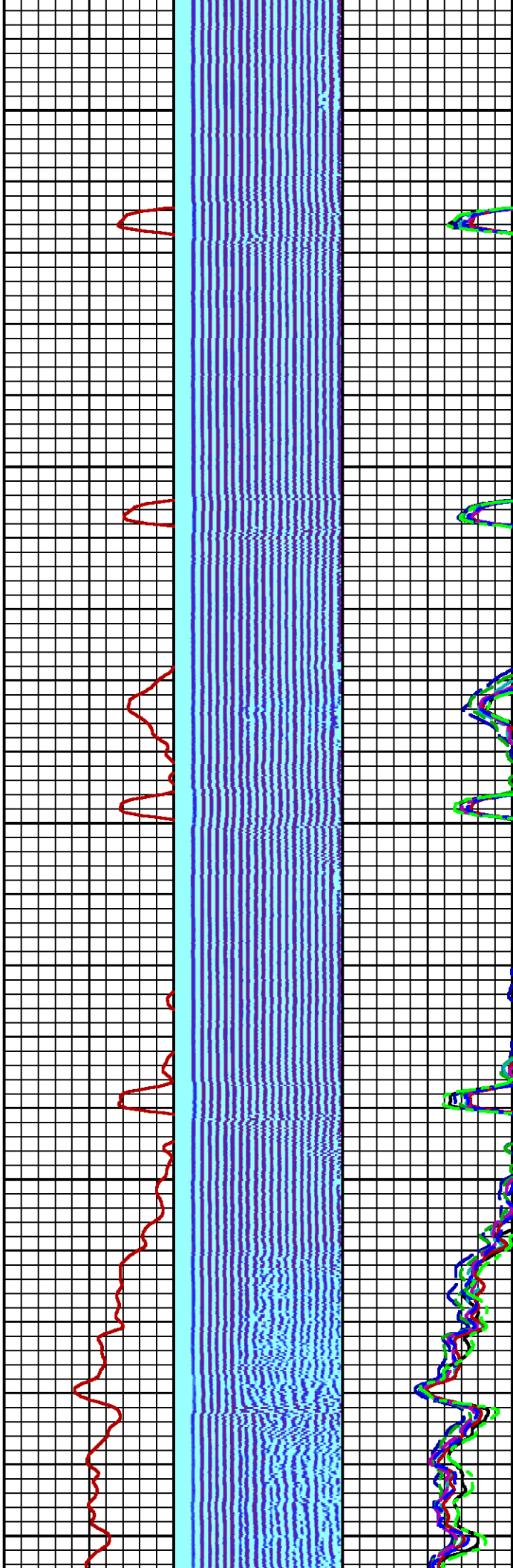




700

800

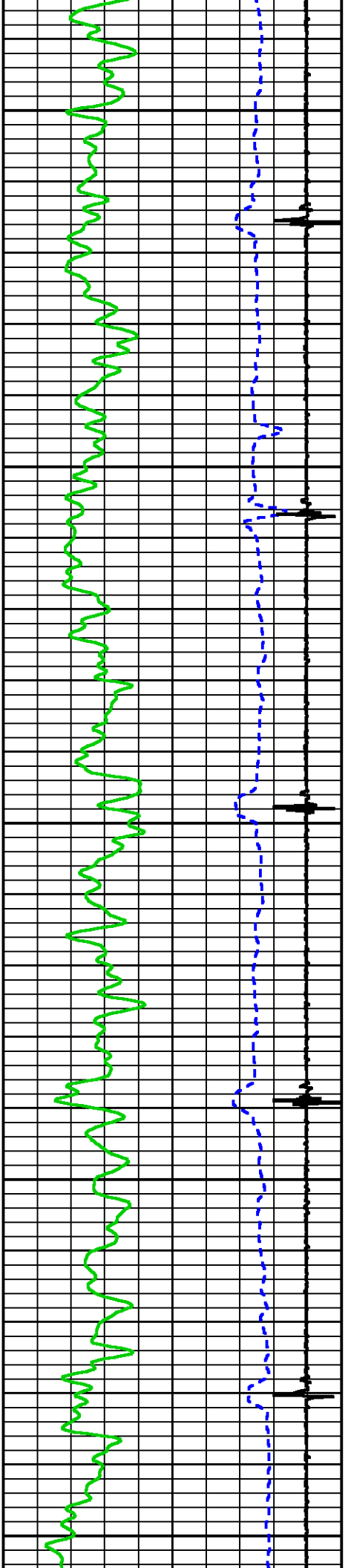


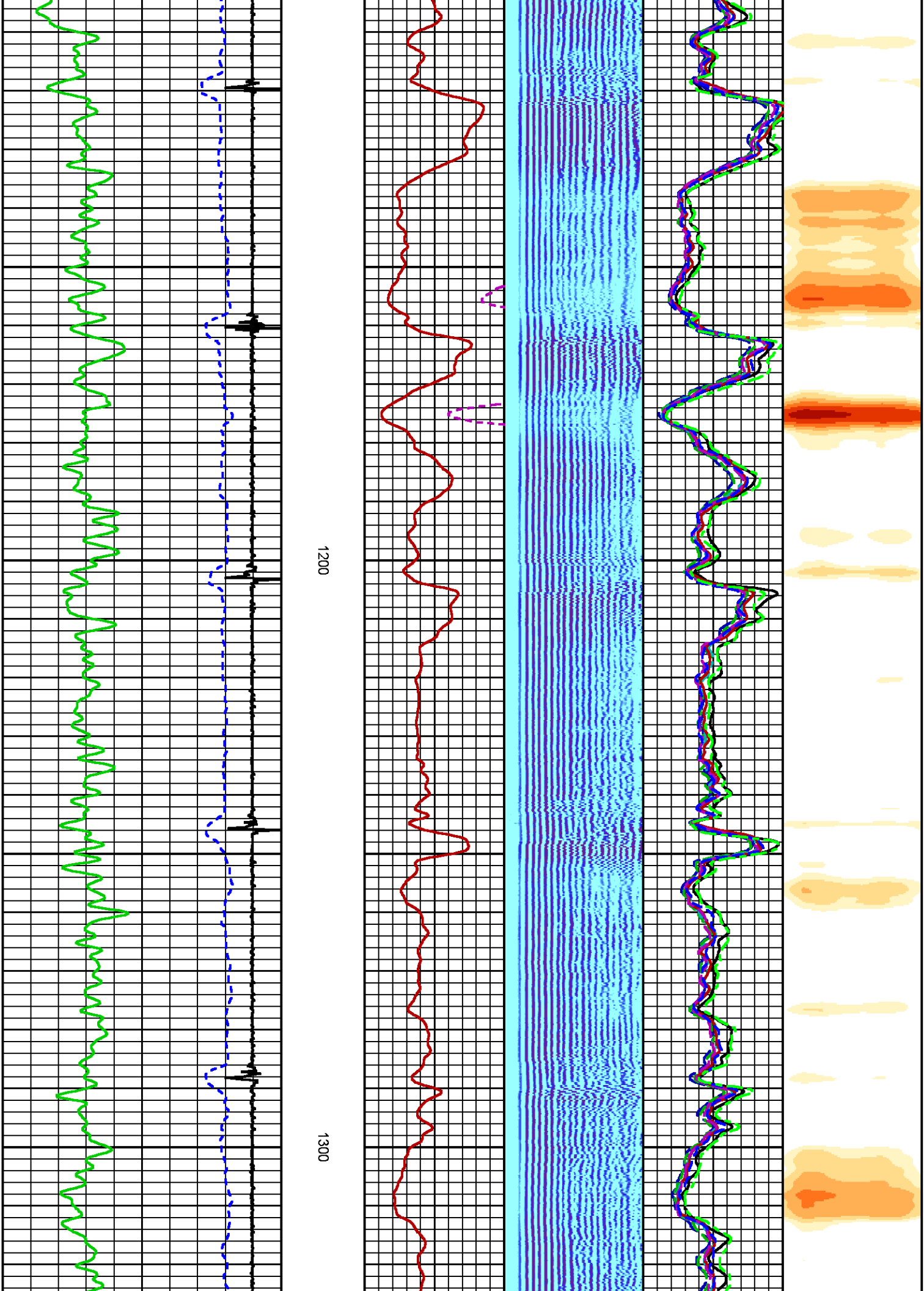


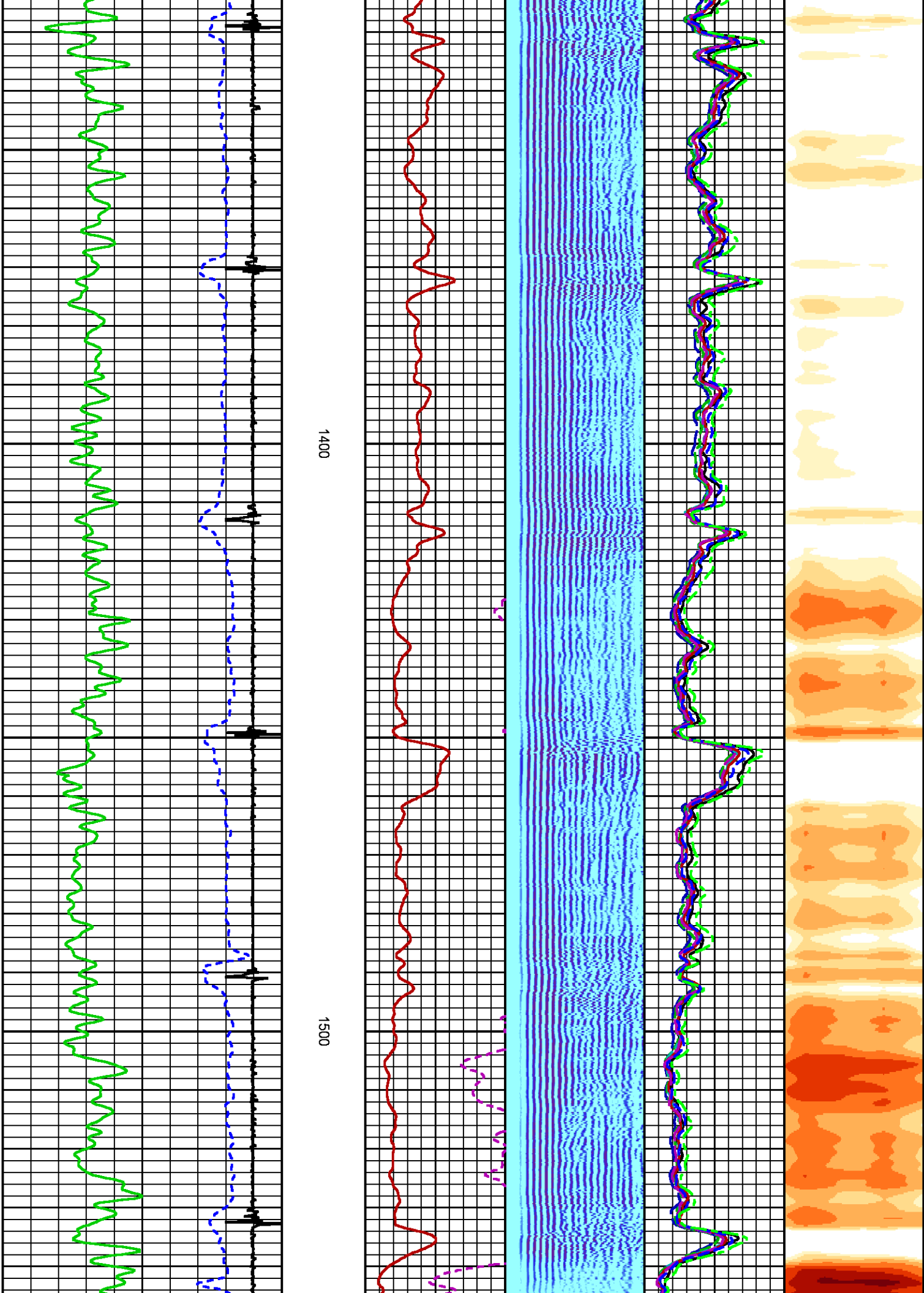
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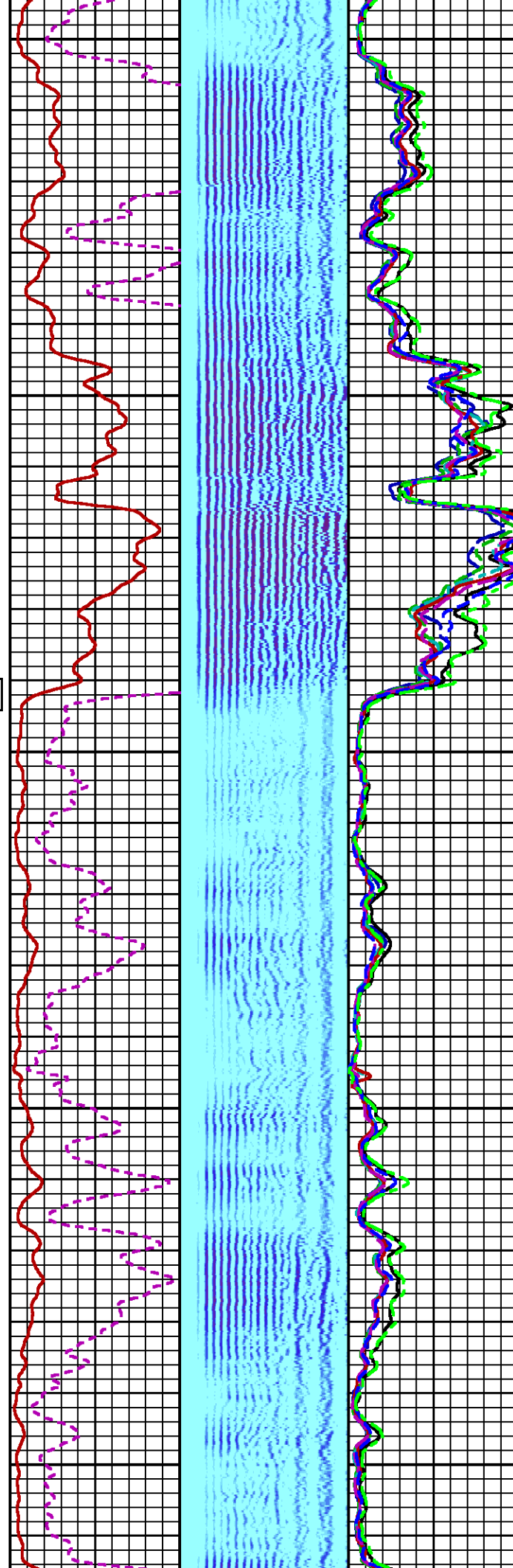
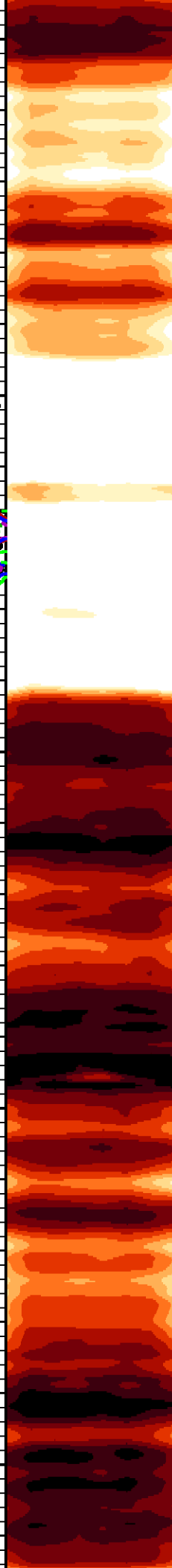
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1100





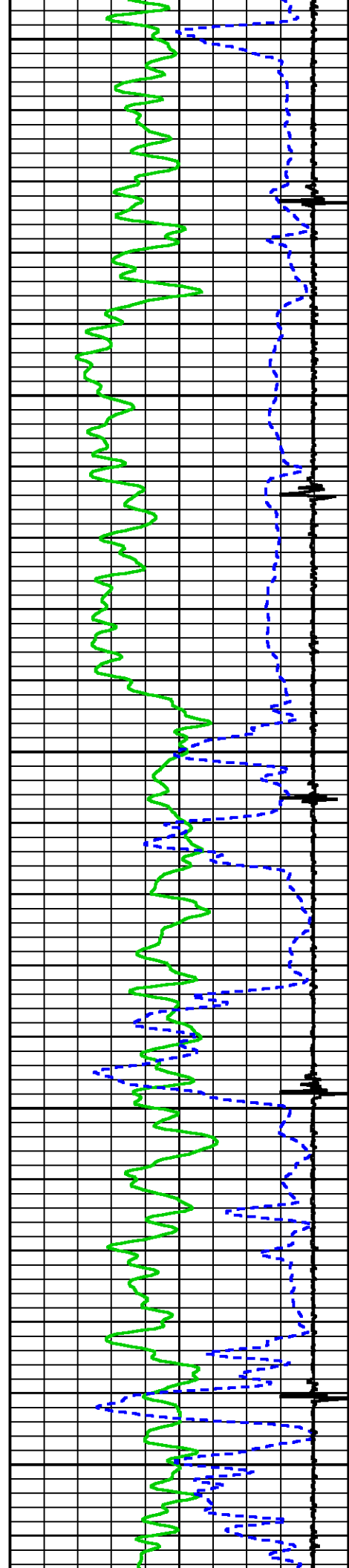


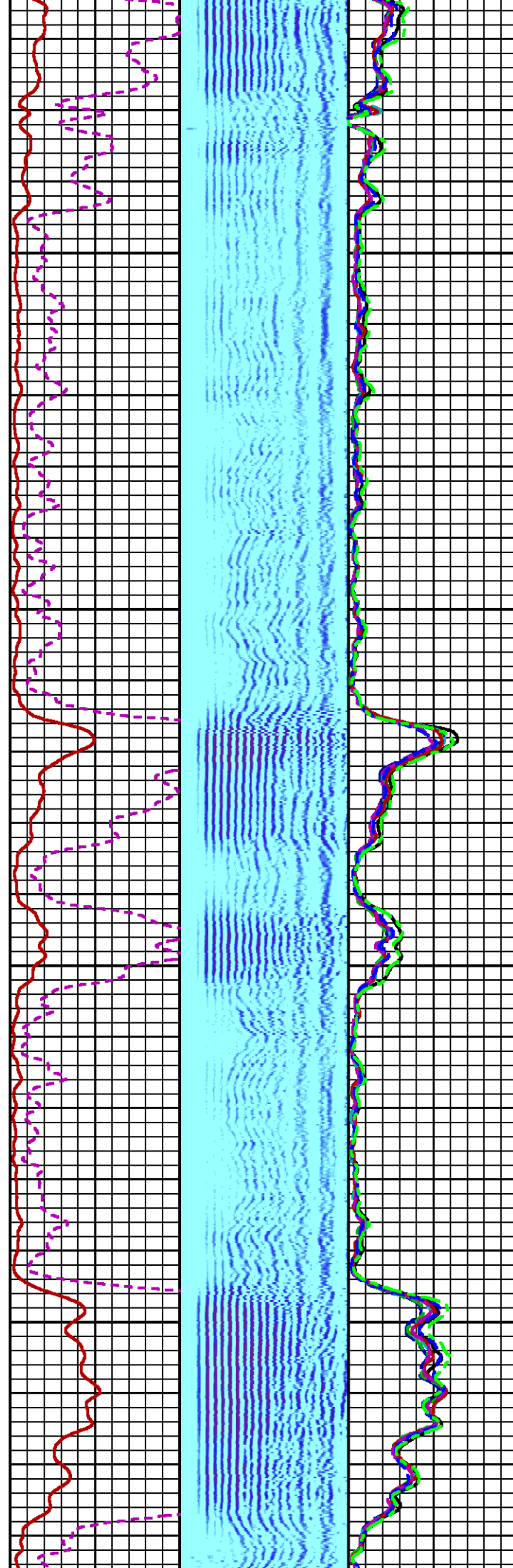
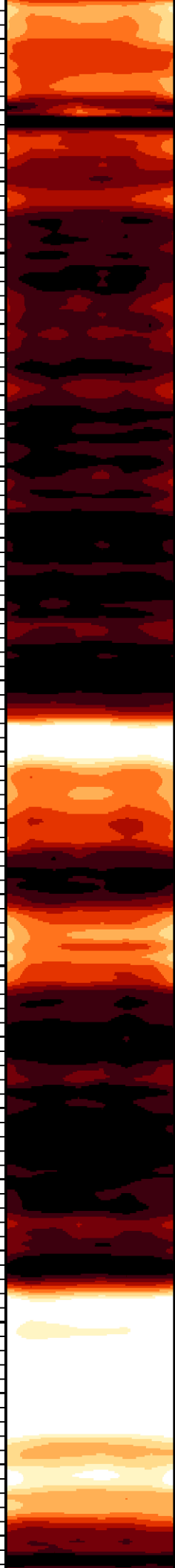


1600

TOC

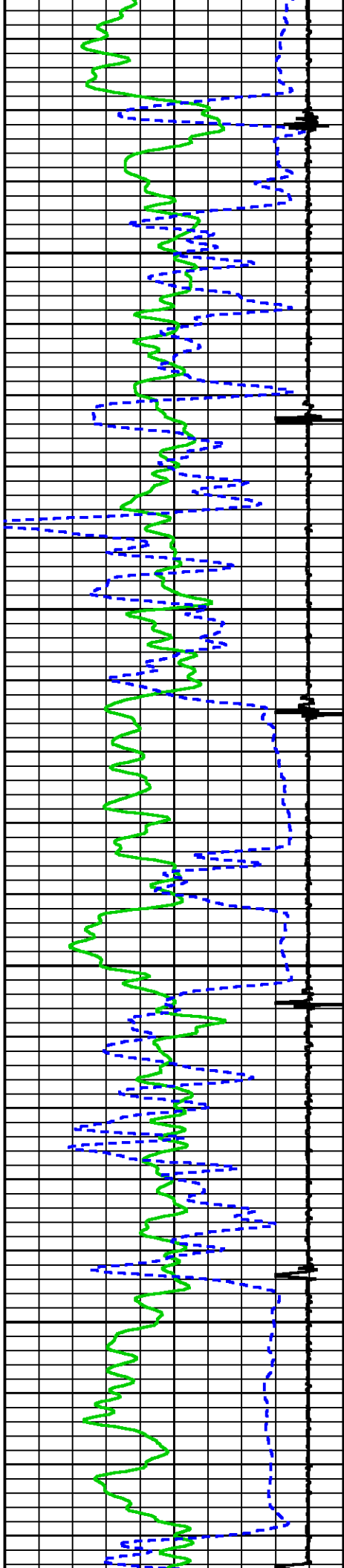
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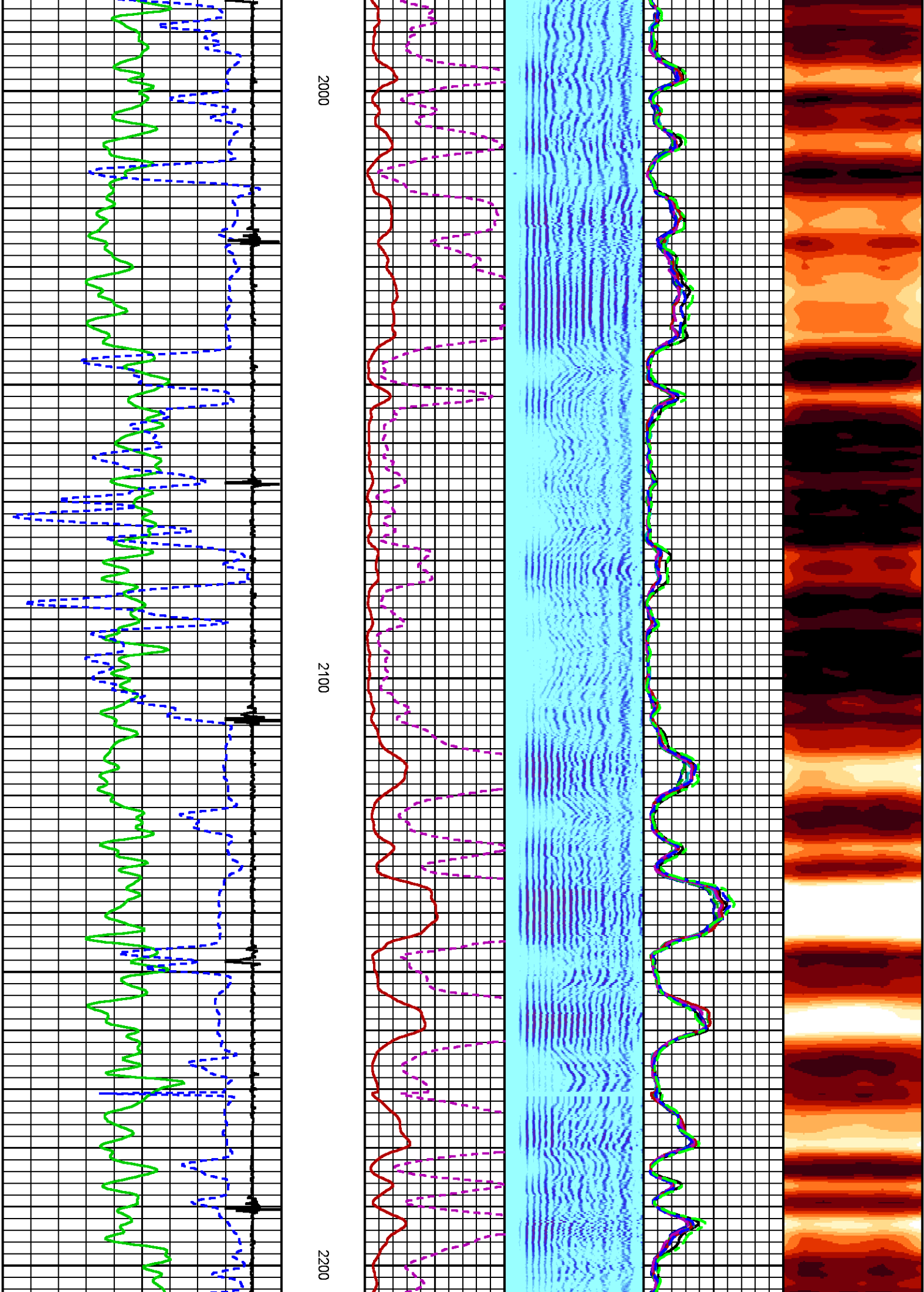


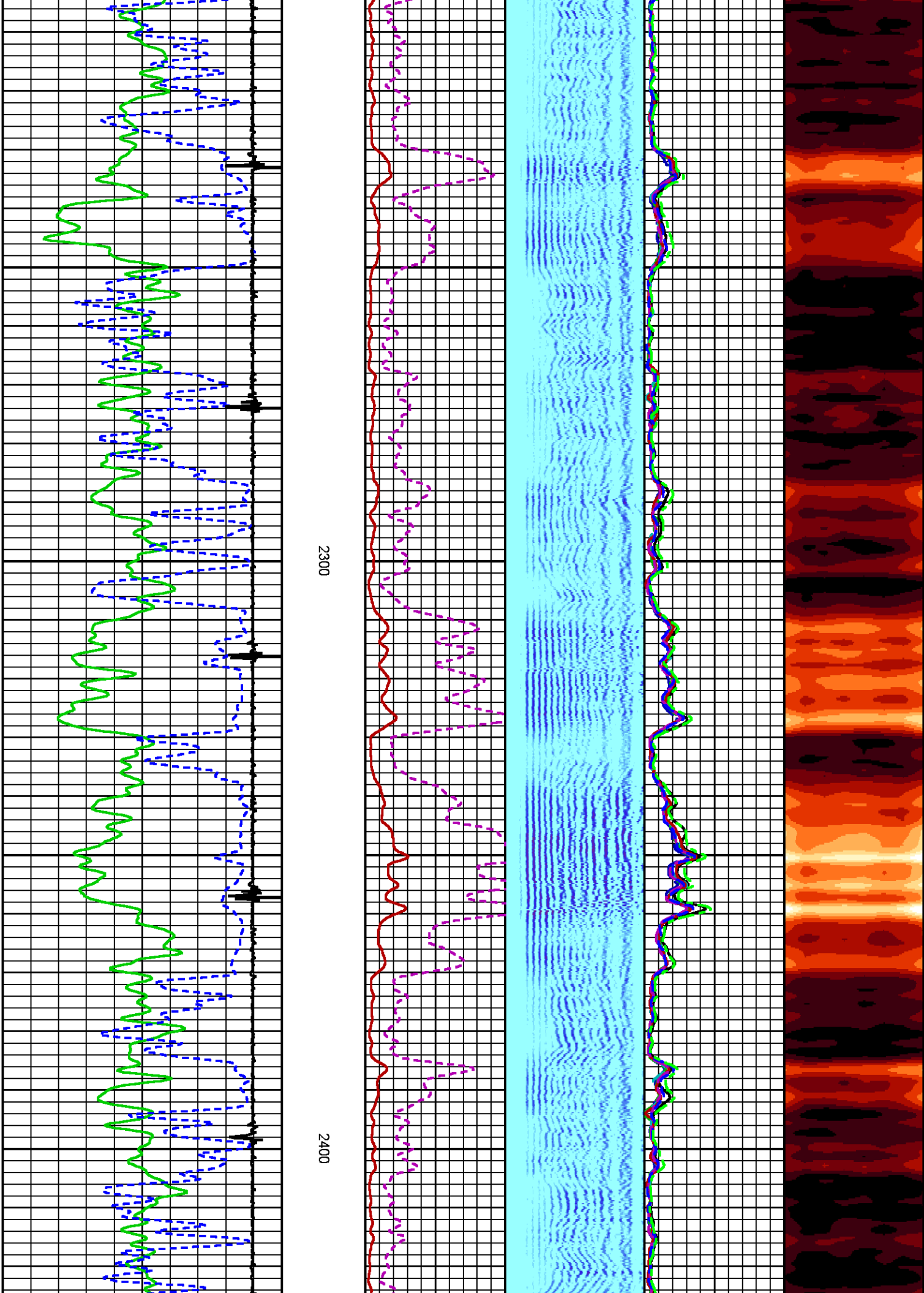


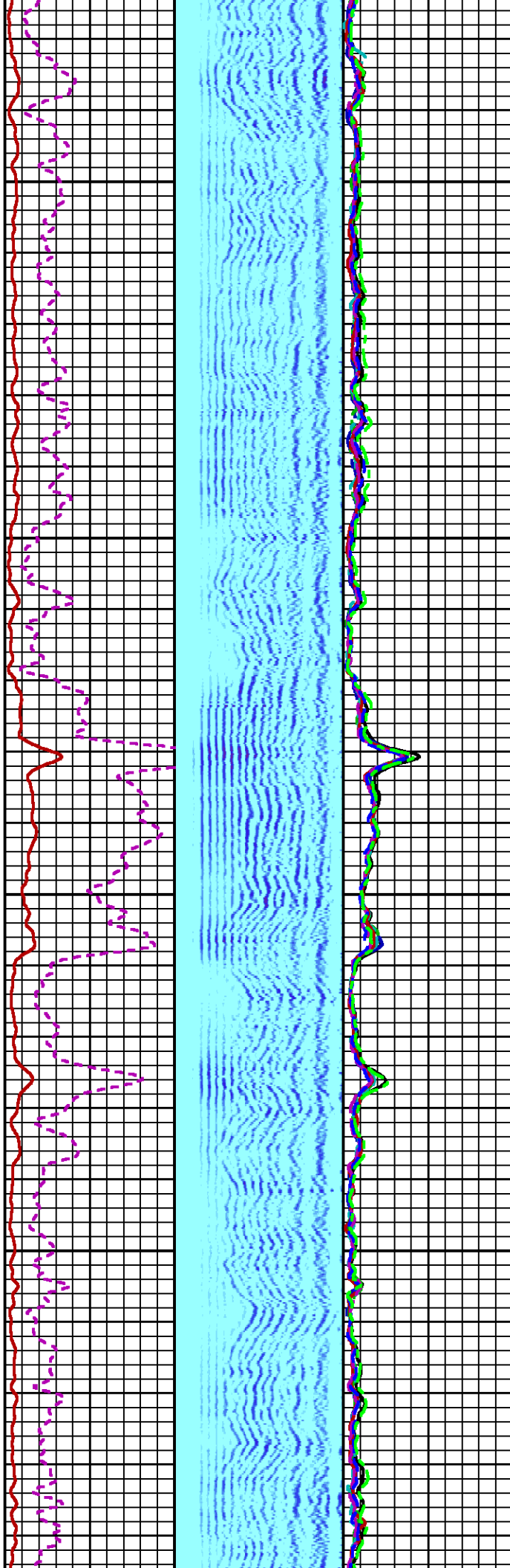
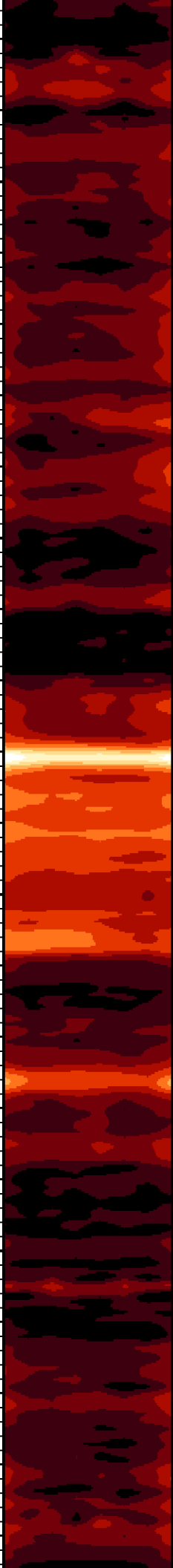
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1900



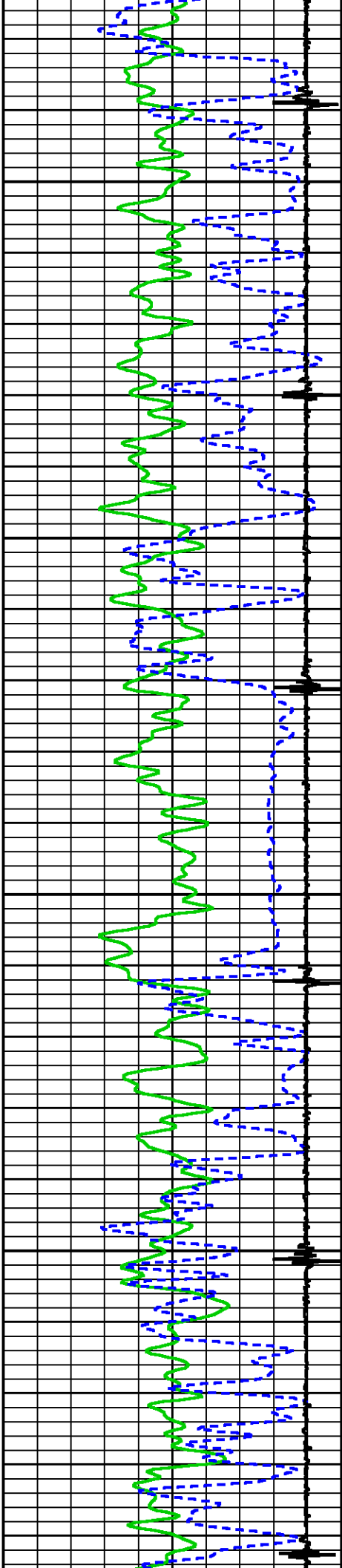


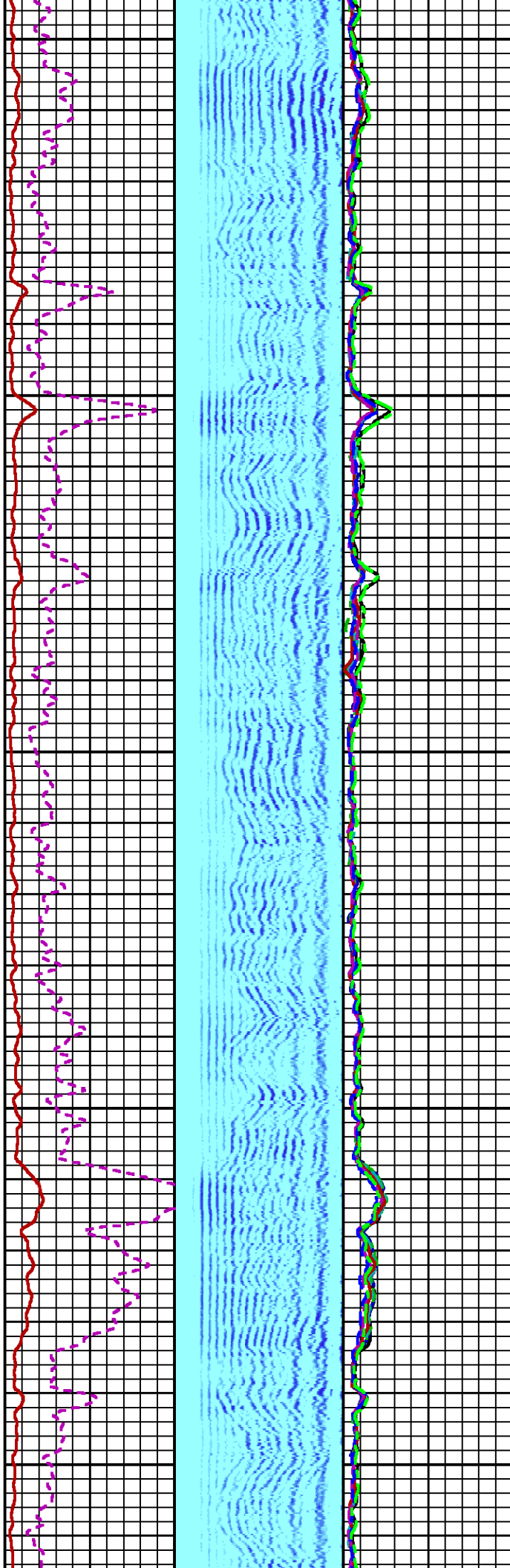
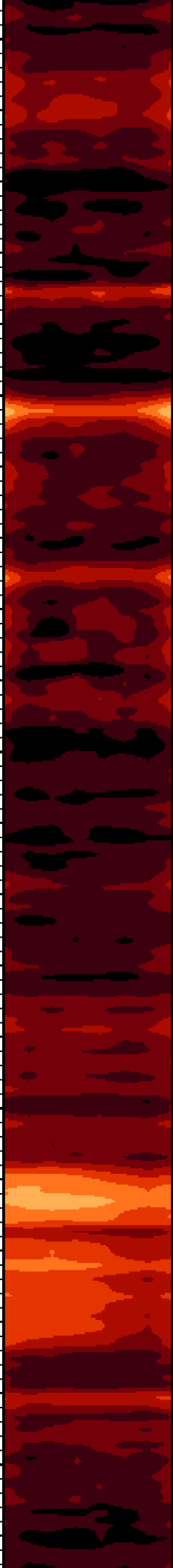




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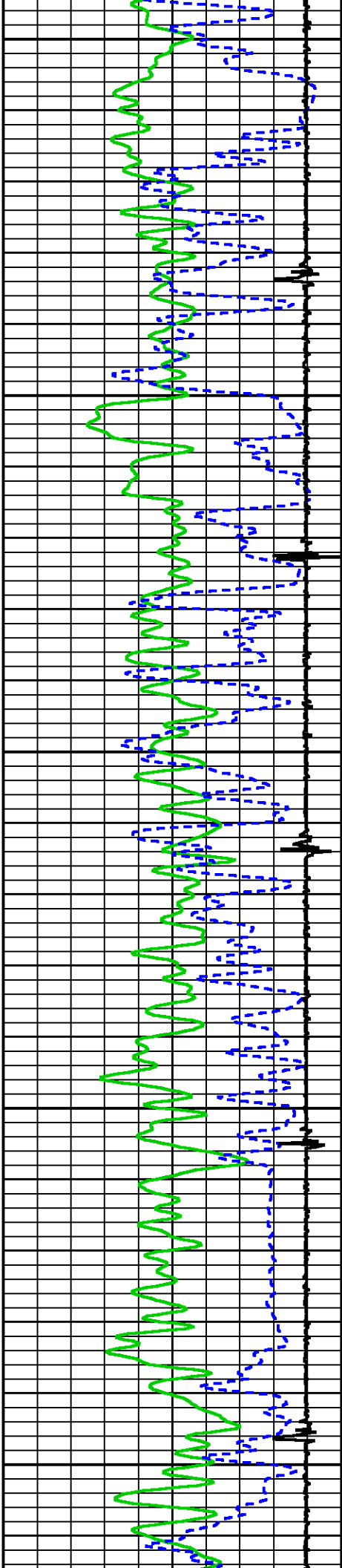
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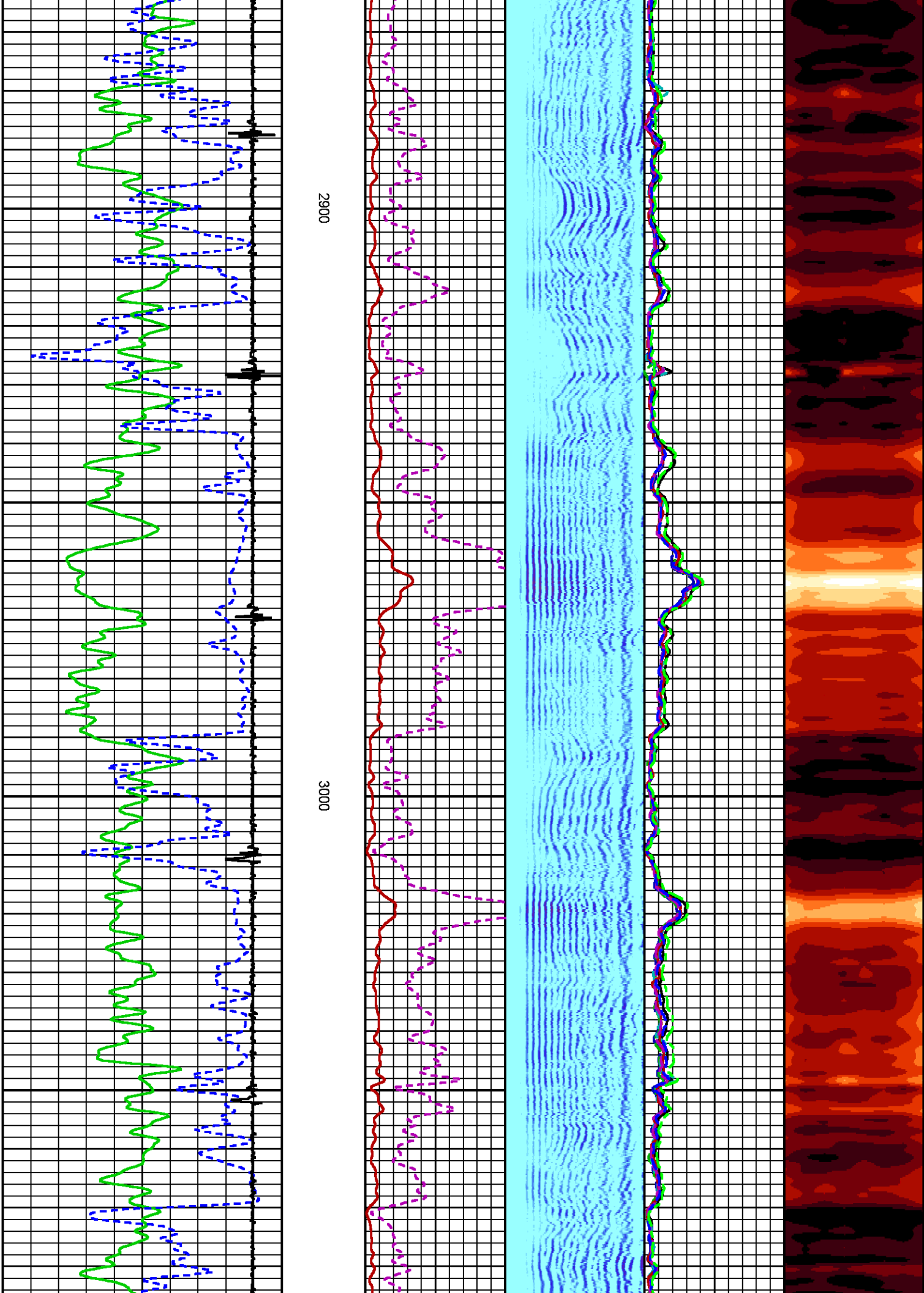


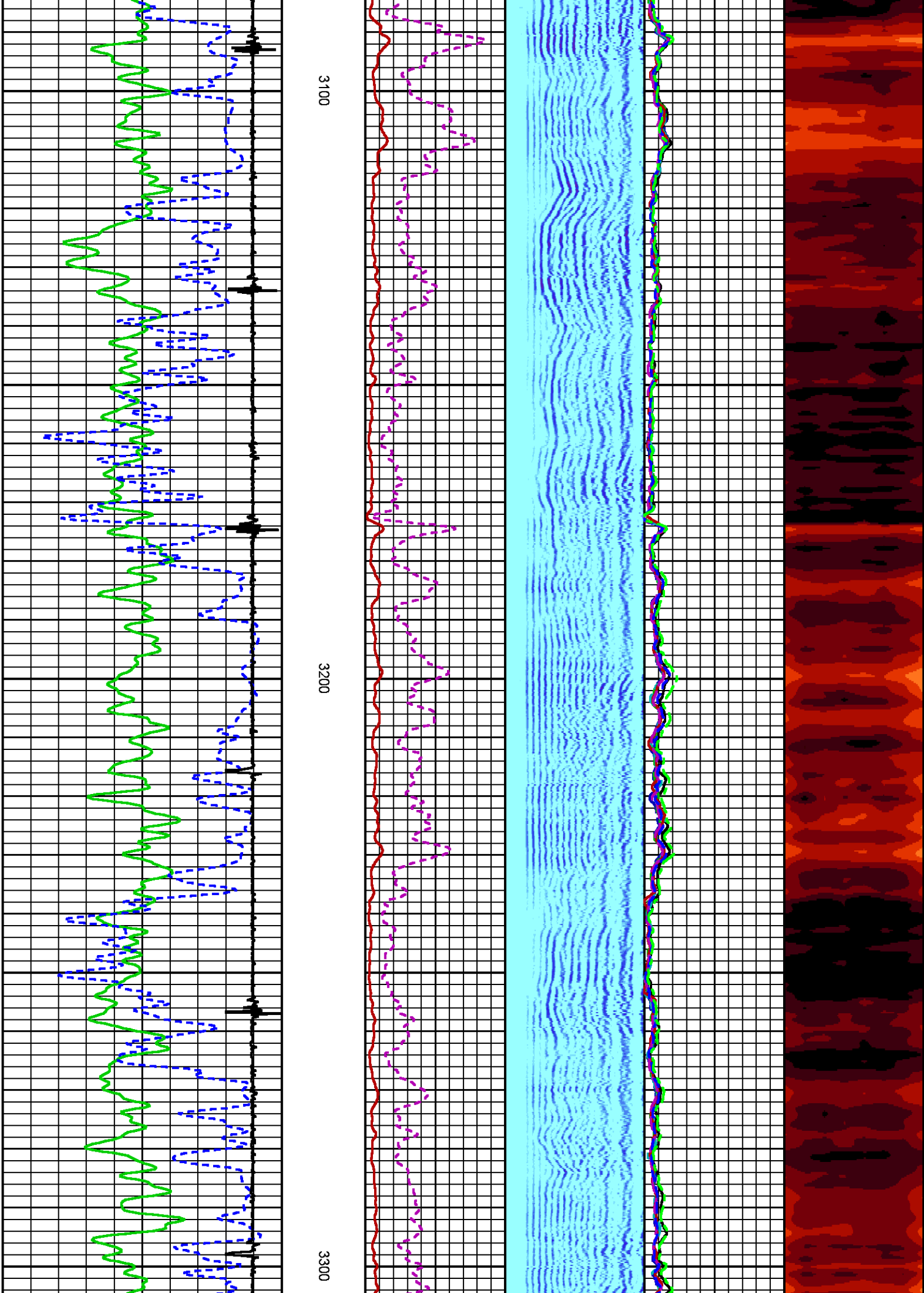


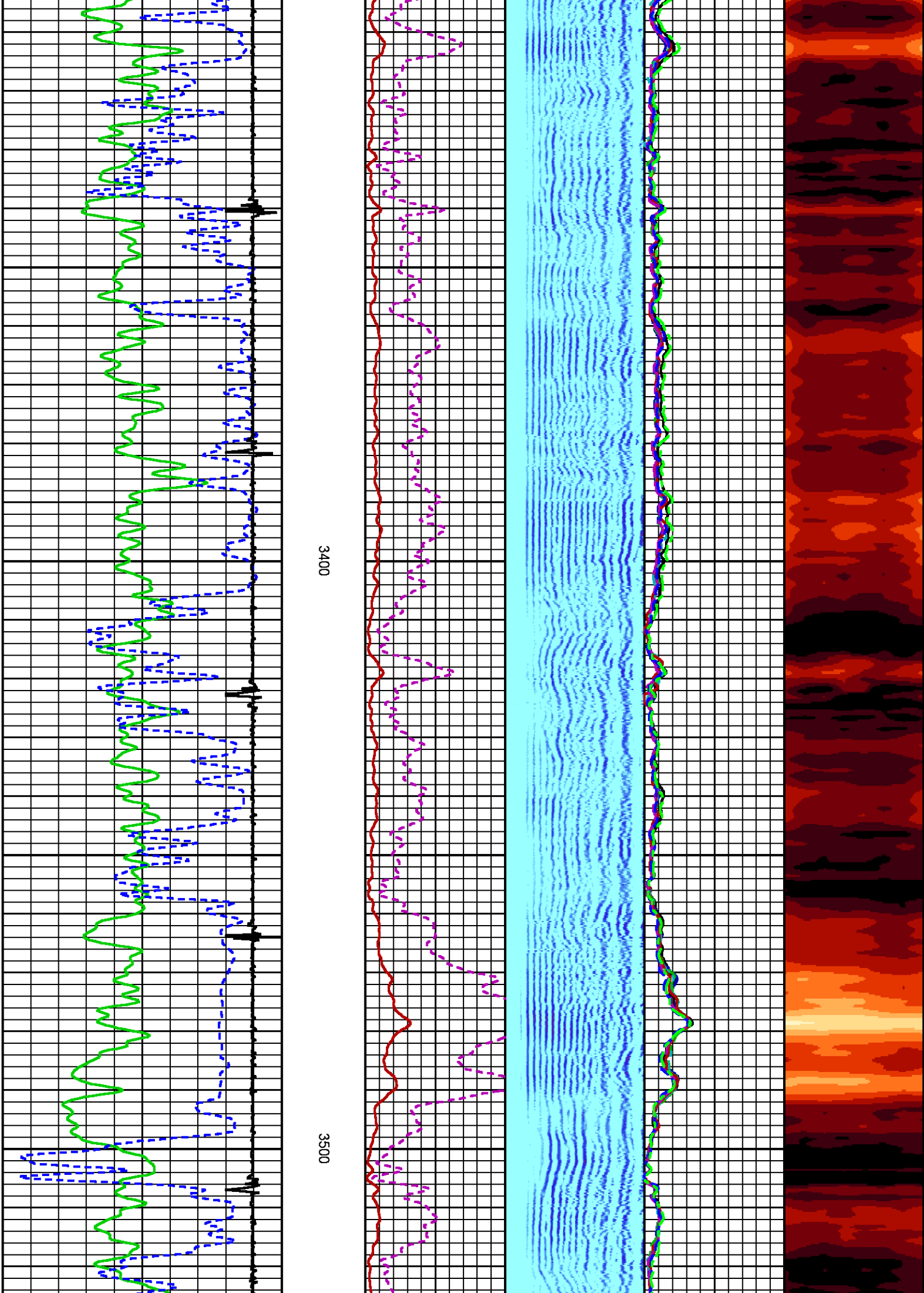
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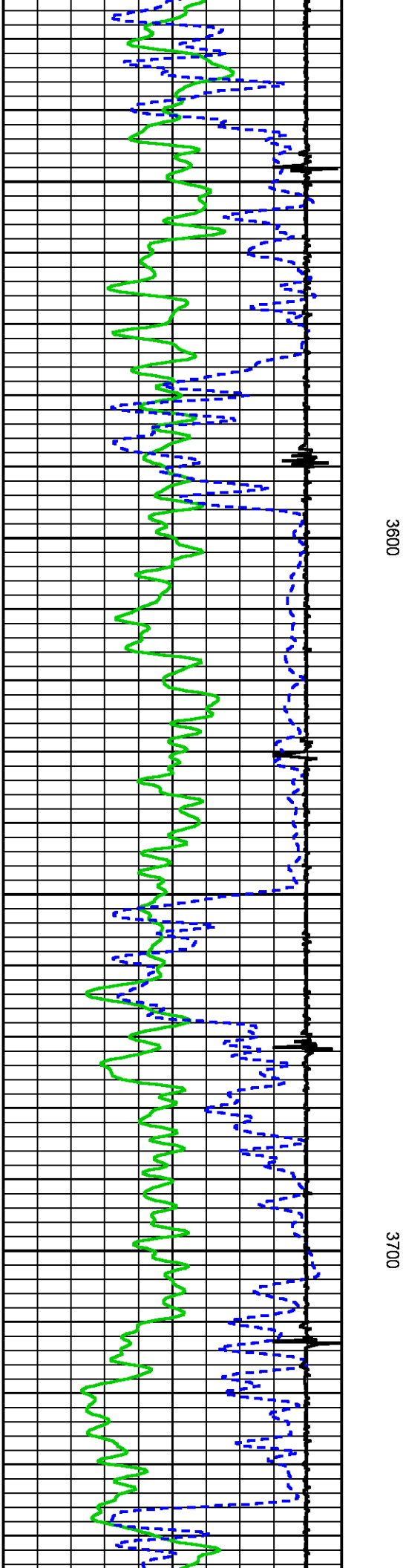
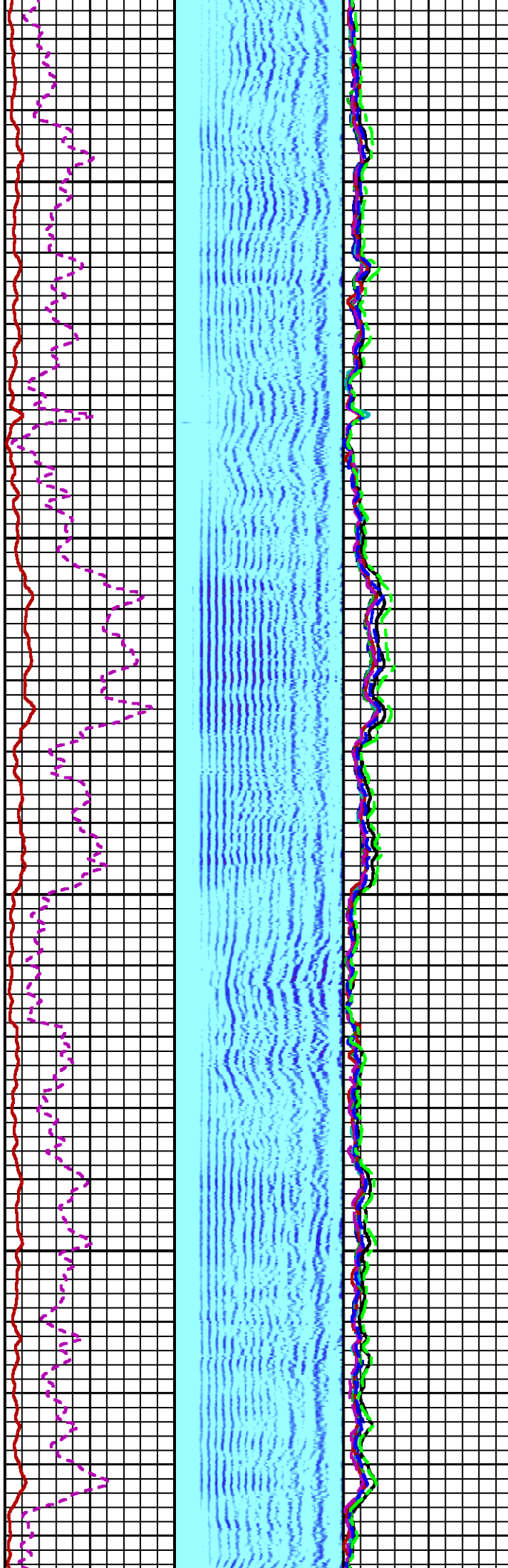
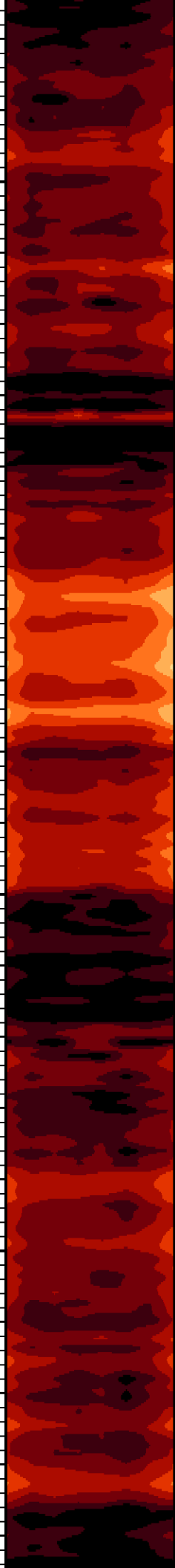
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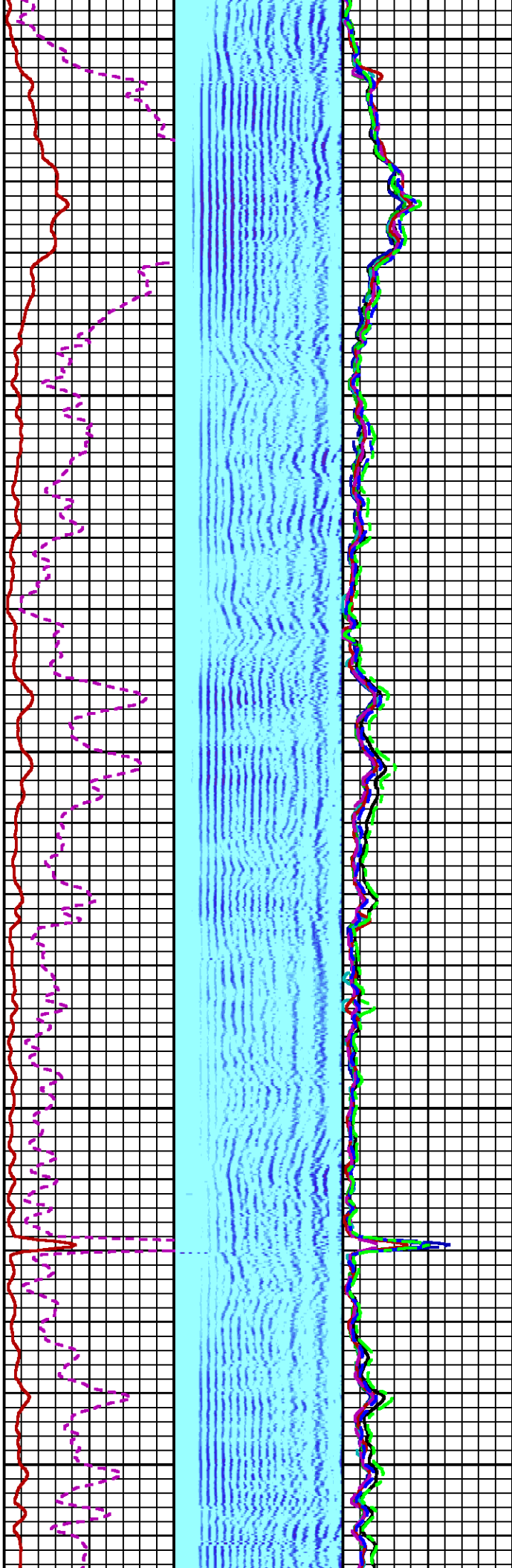
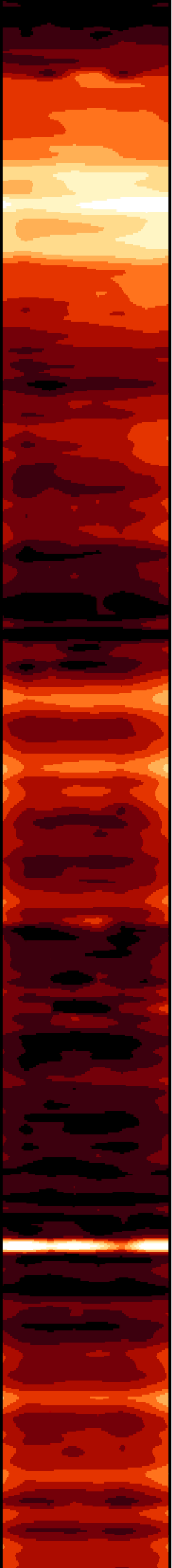






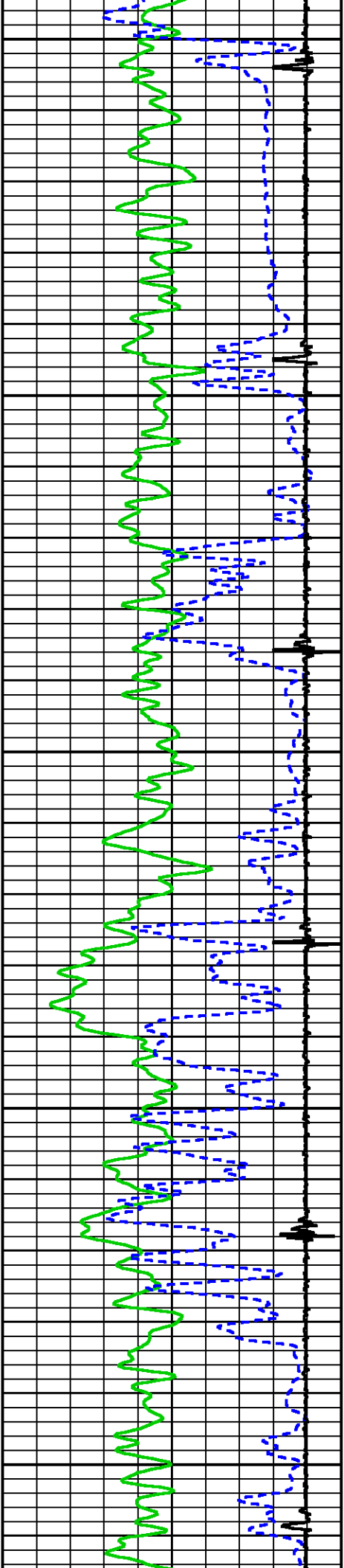


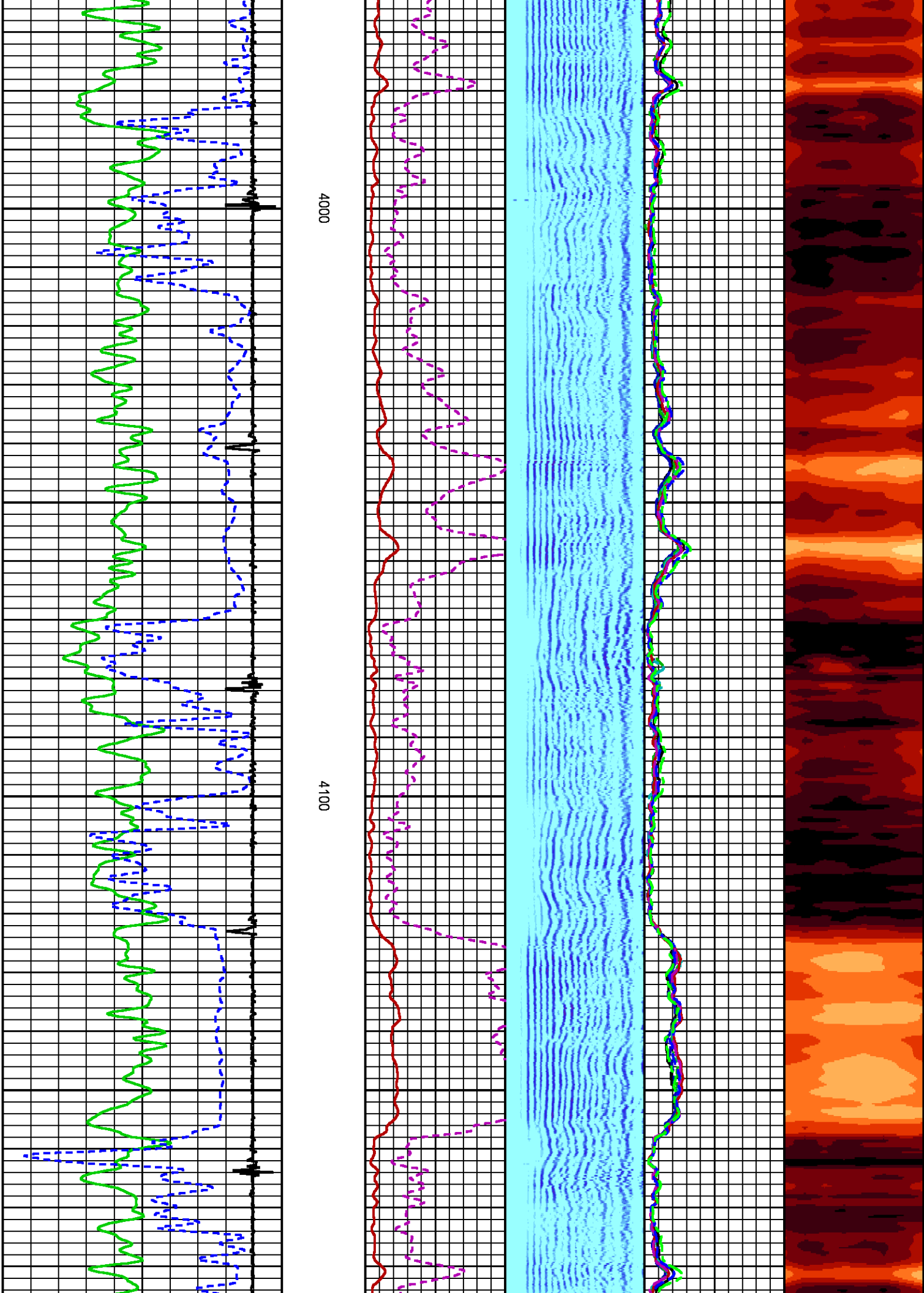


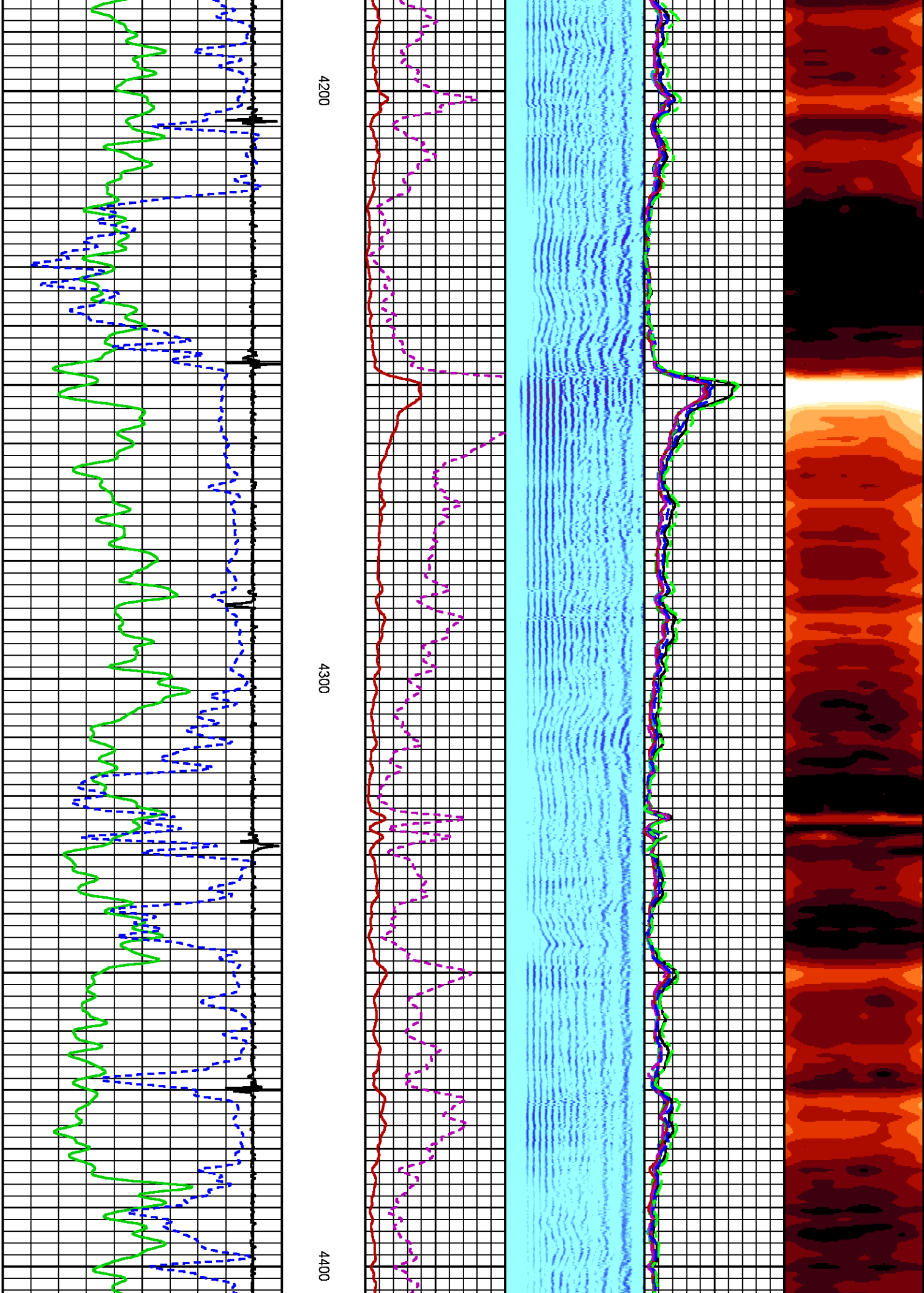


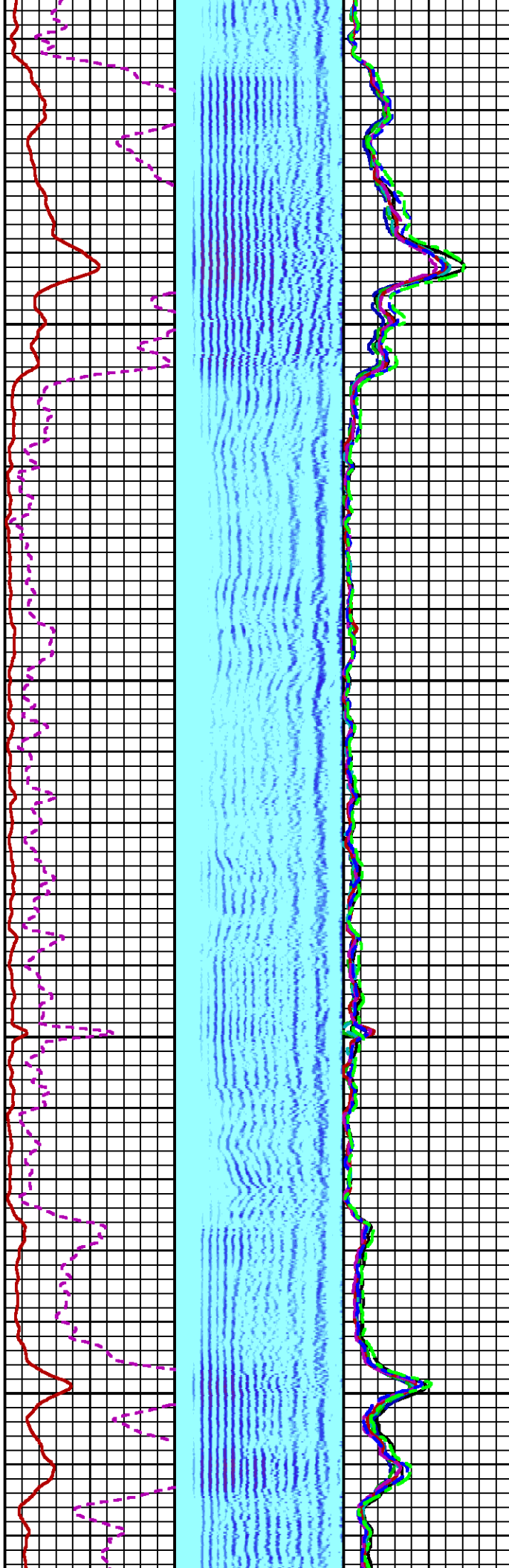
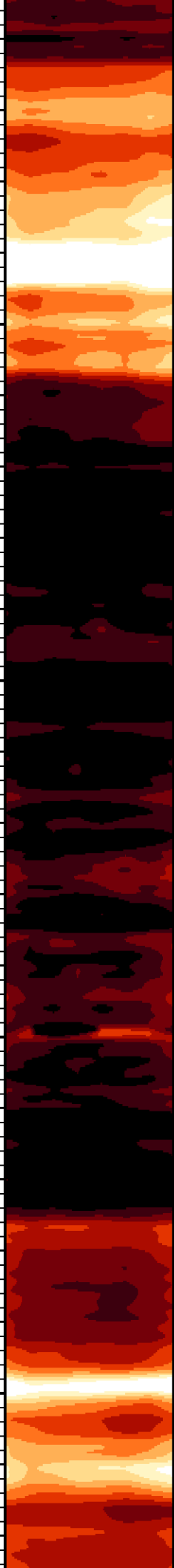
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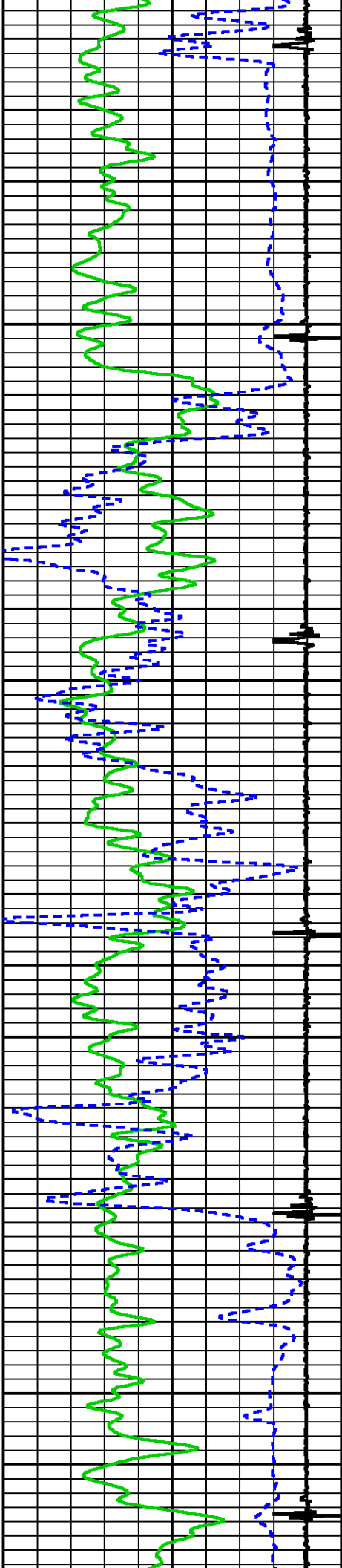


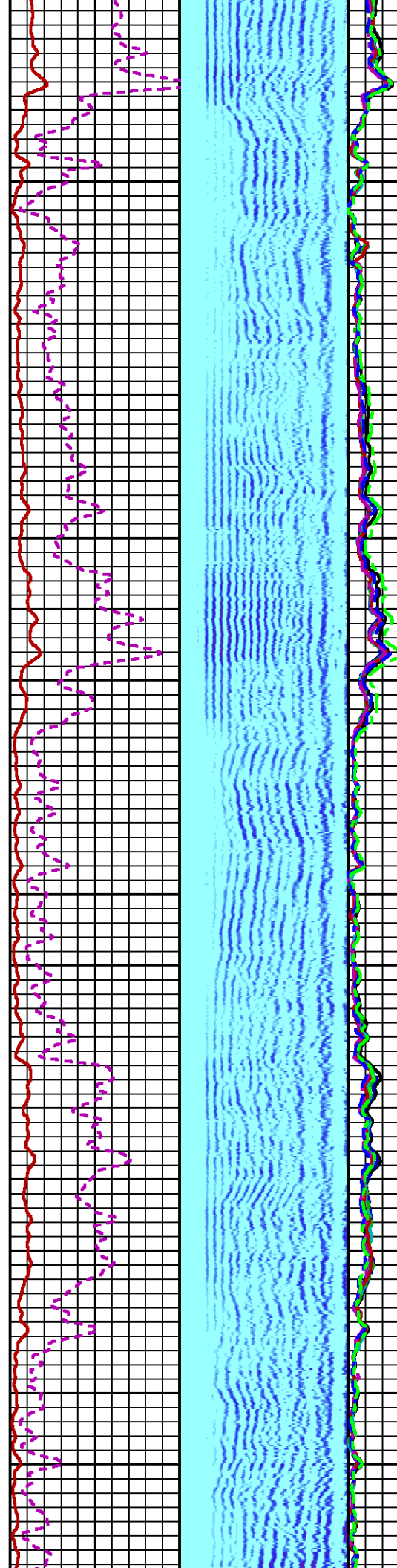
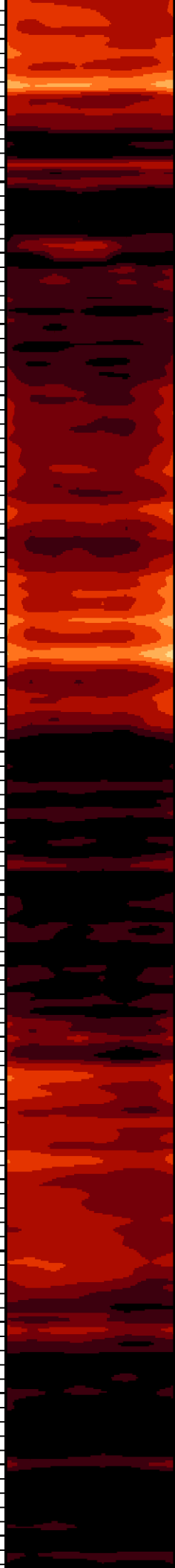




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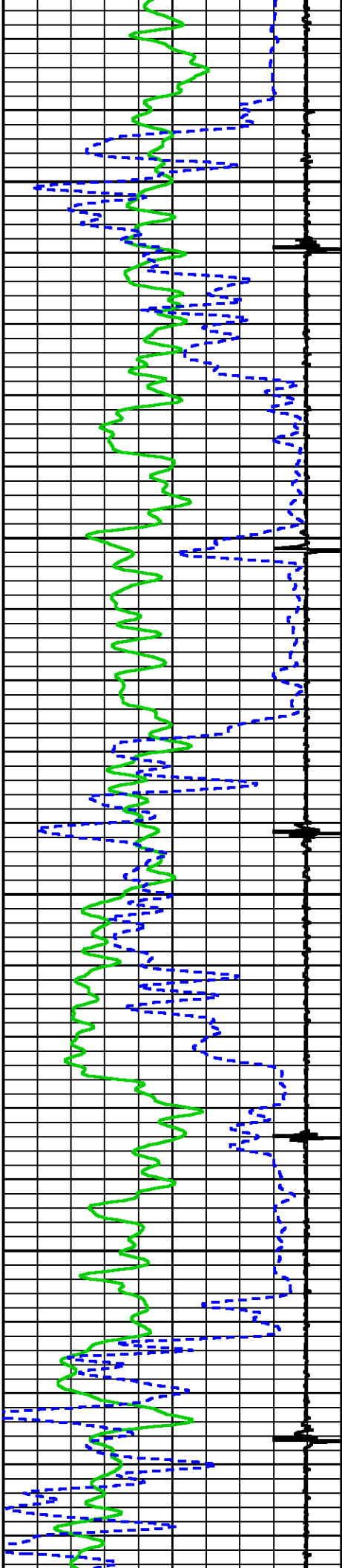
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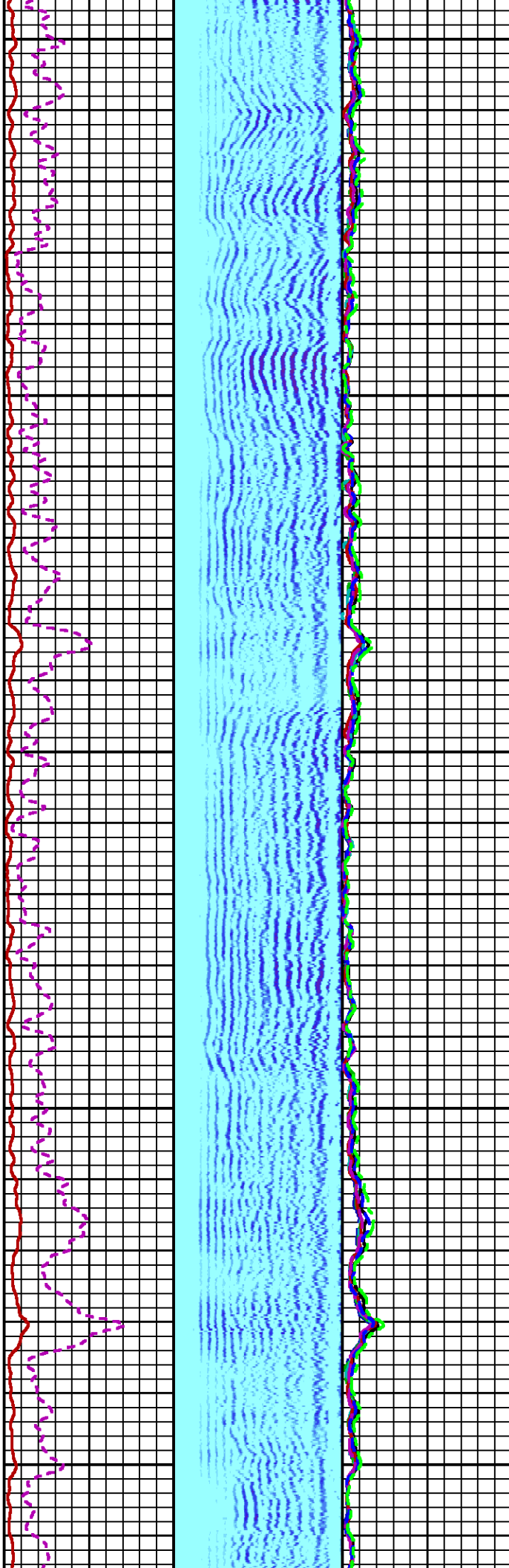
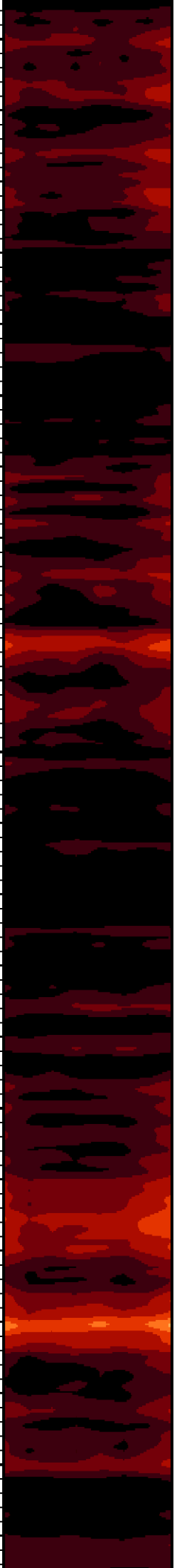




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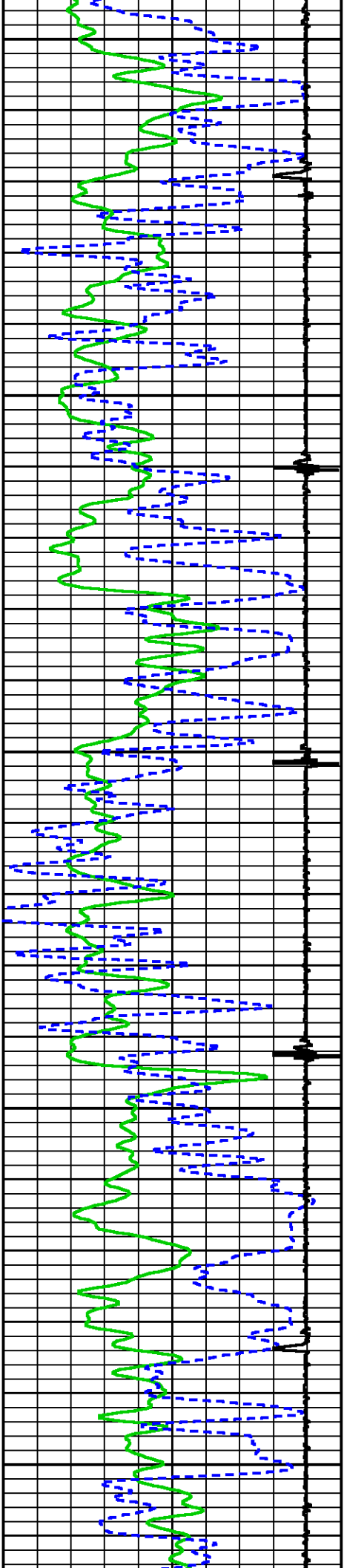
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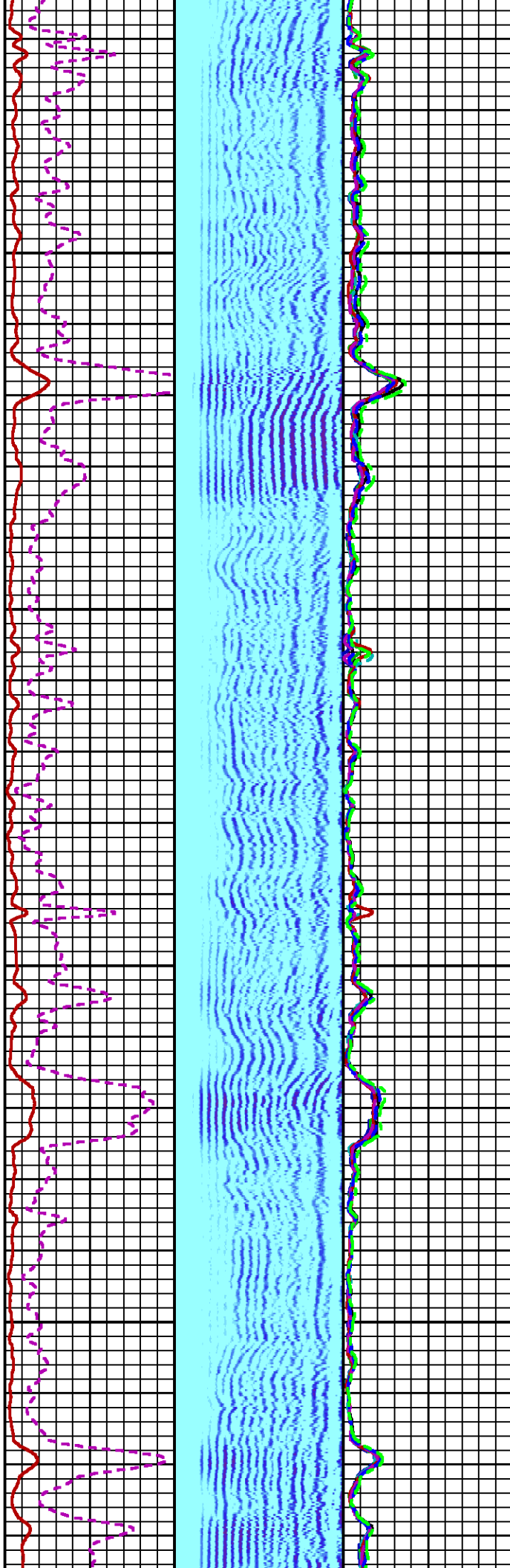
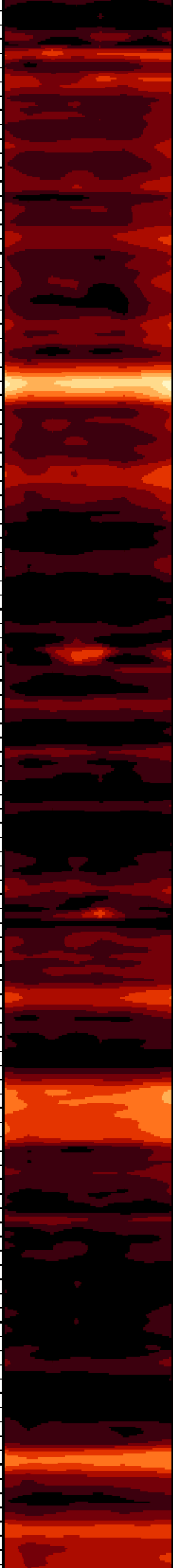




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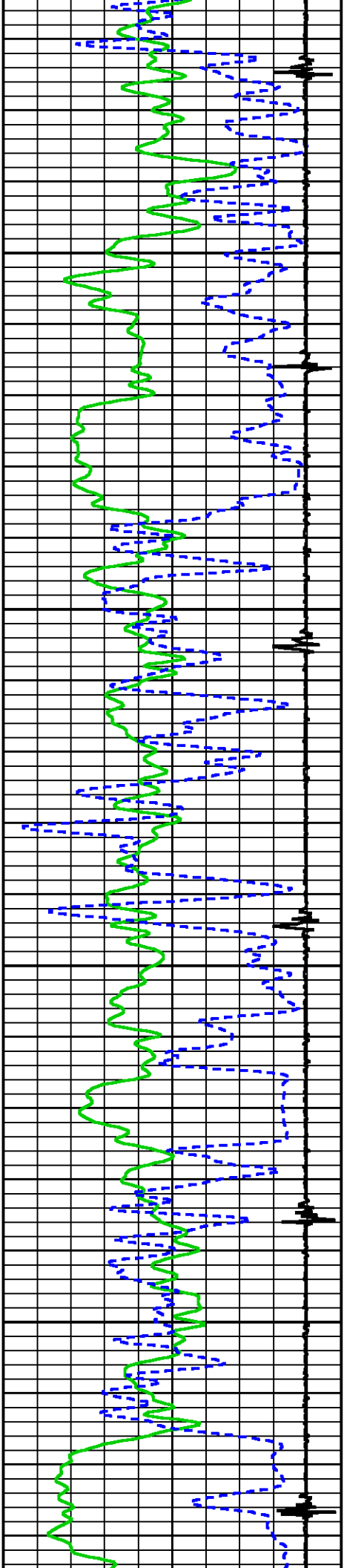
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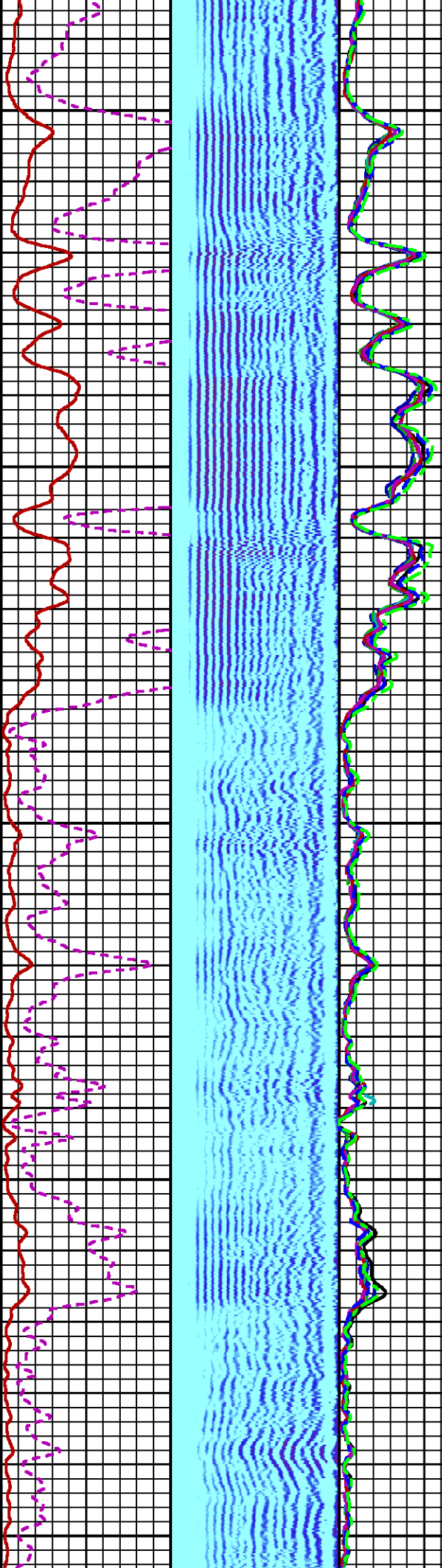




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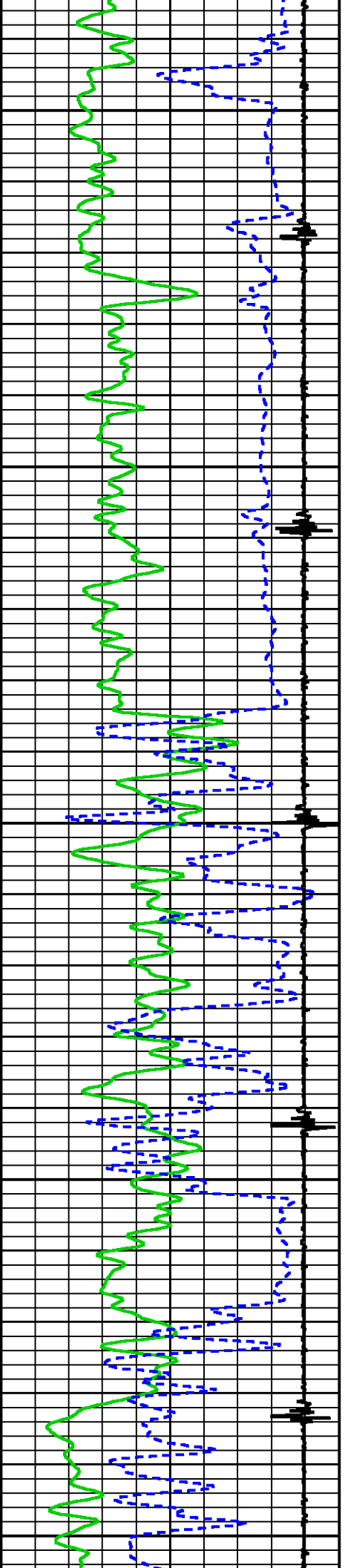


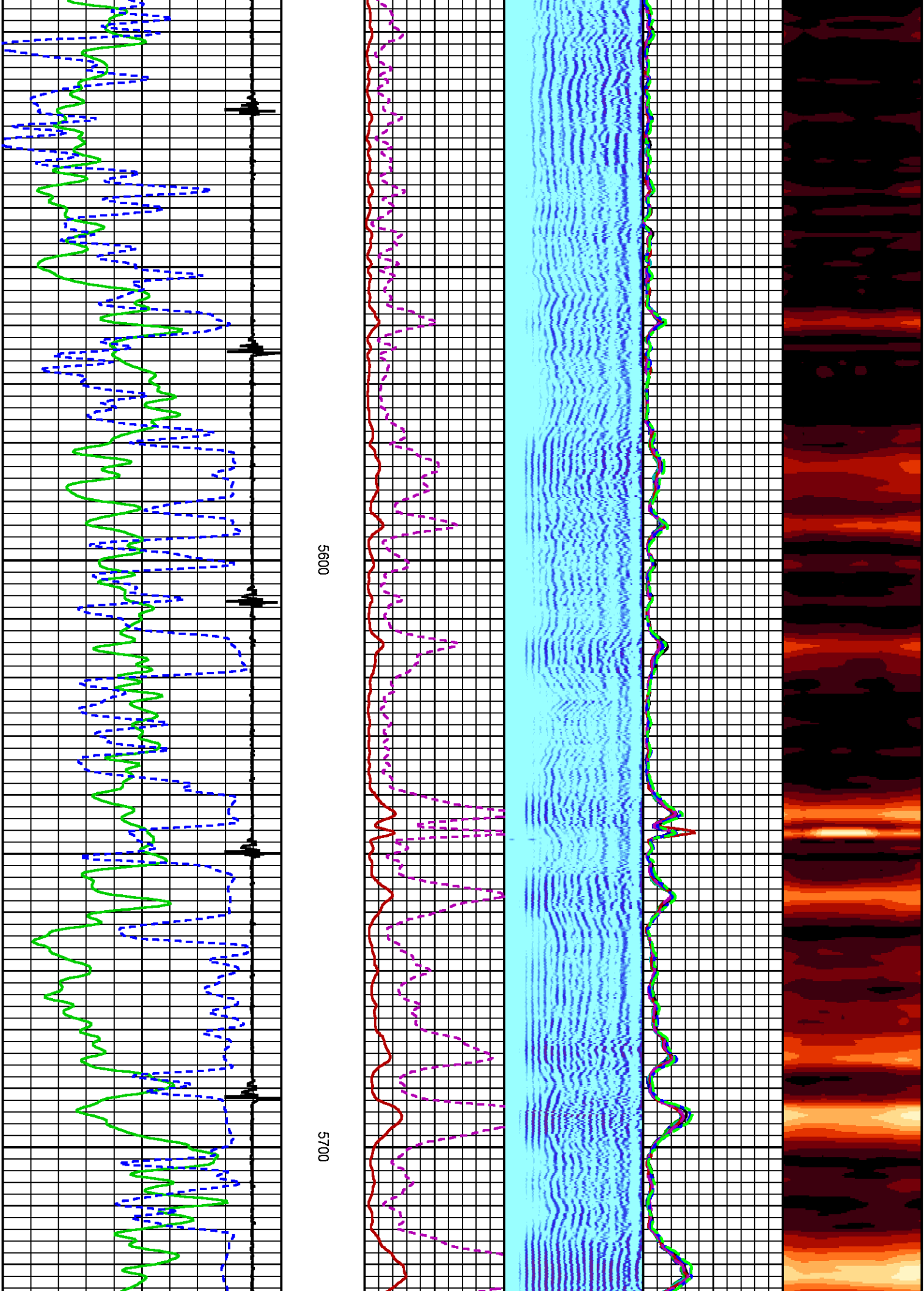


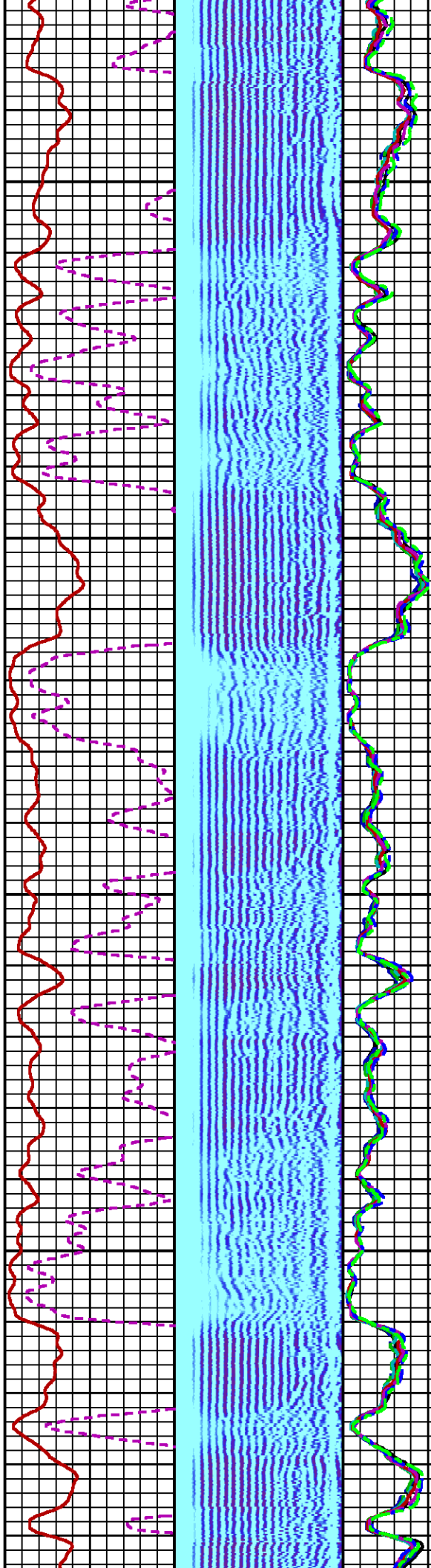
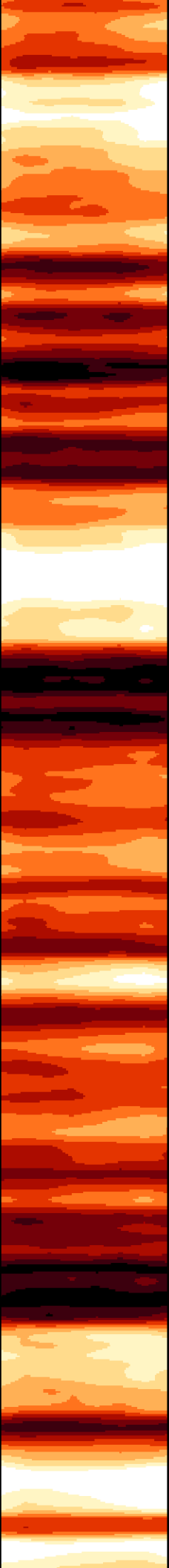
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5400

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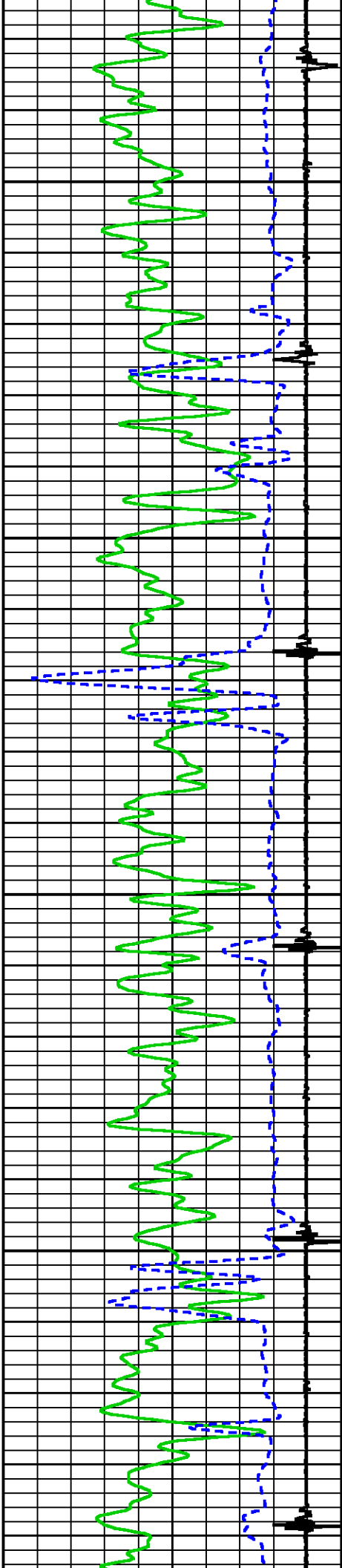


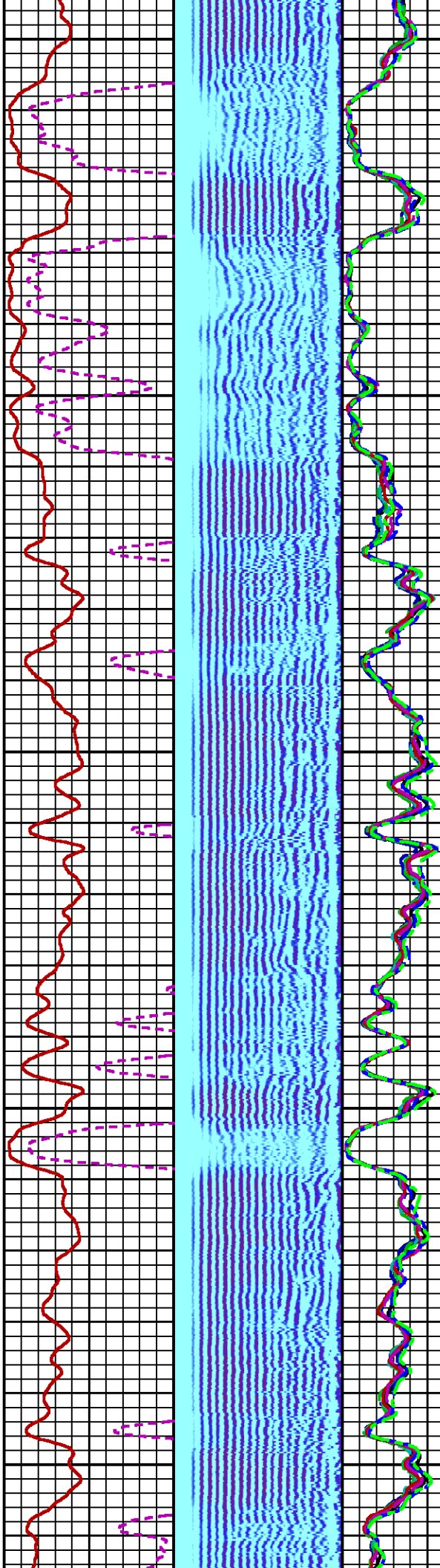
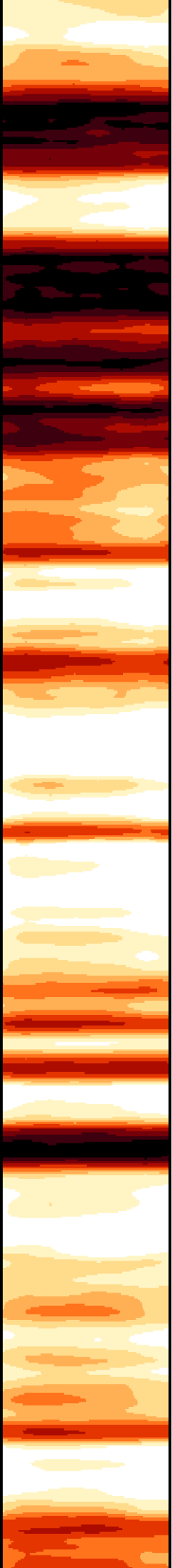




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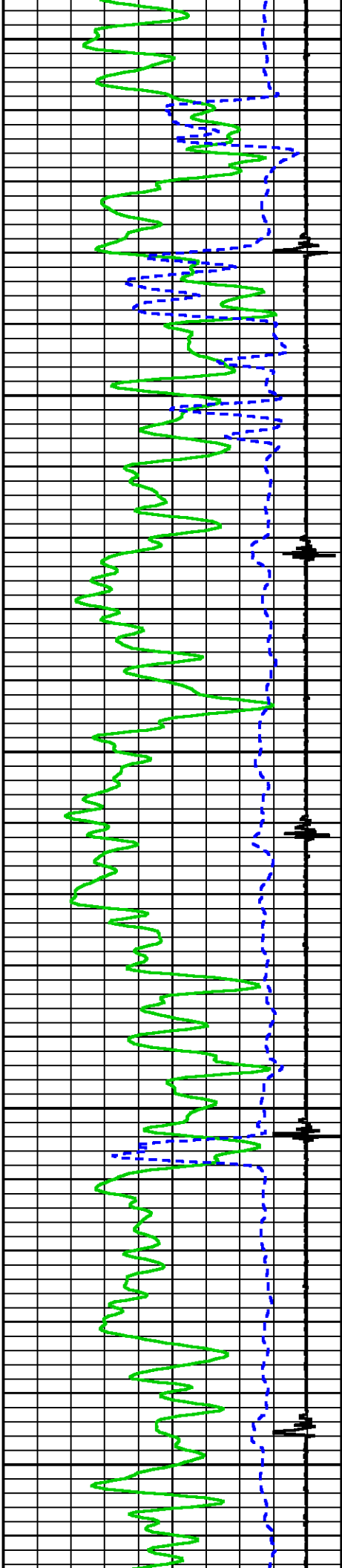
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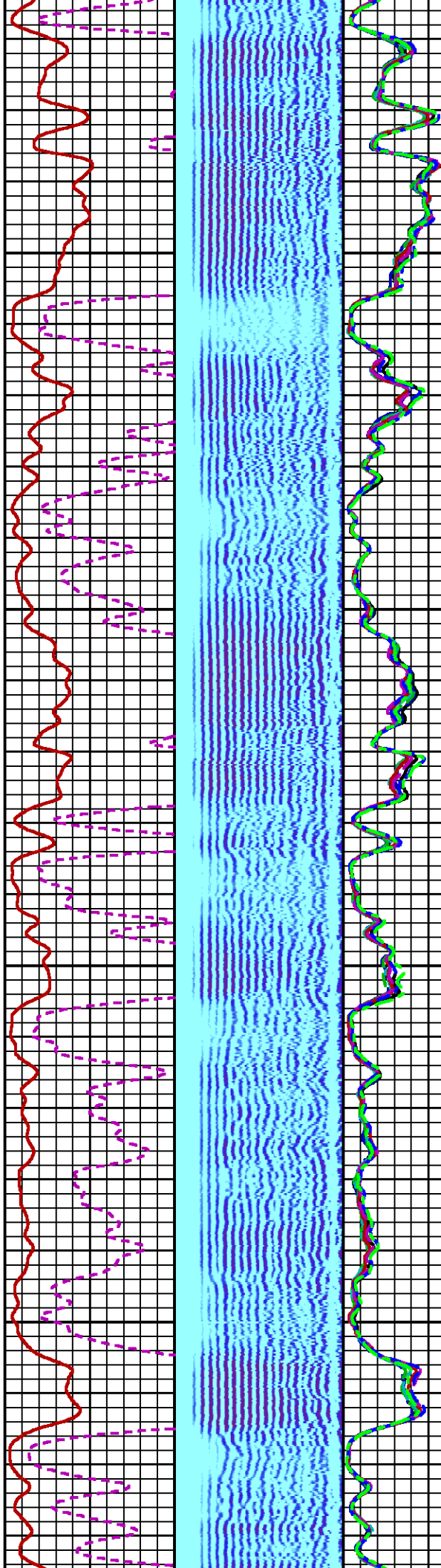
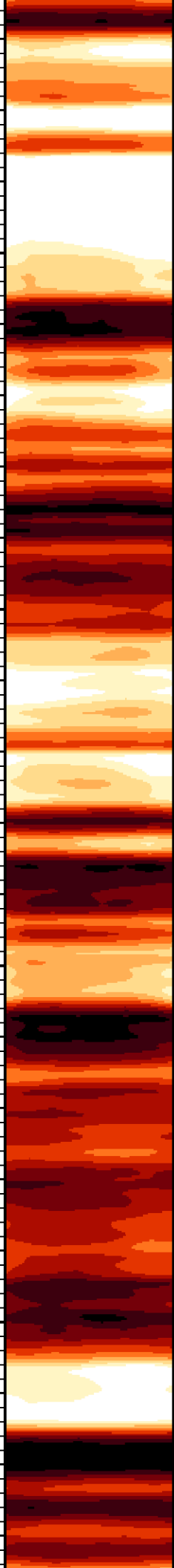




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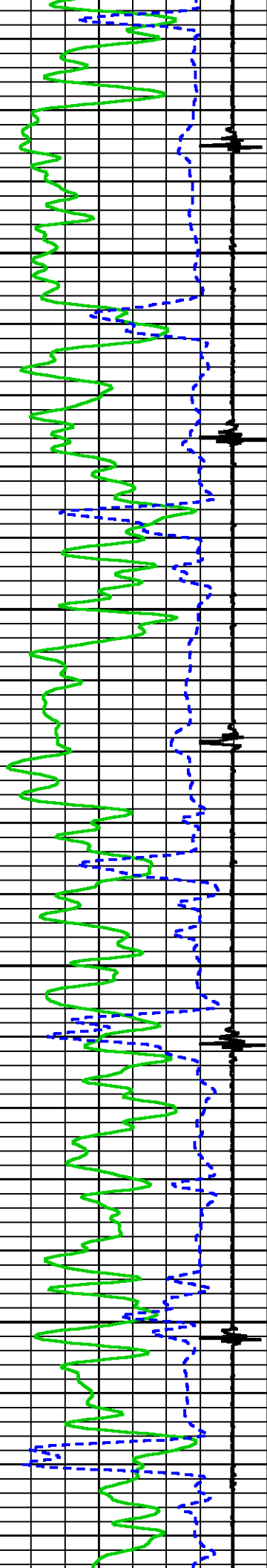
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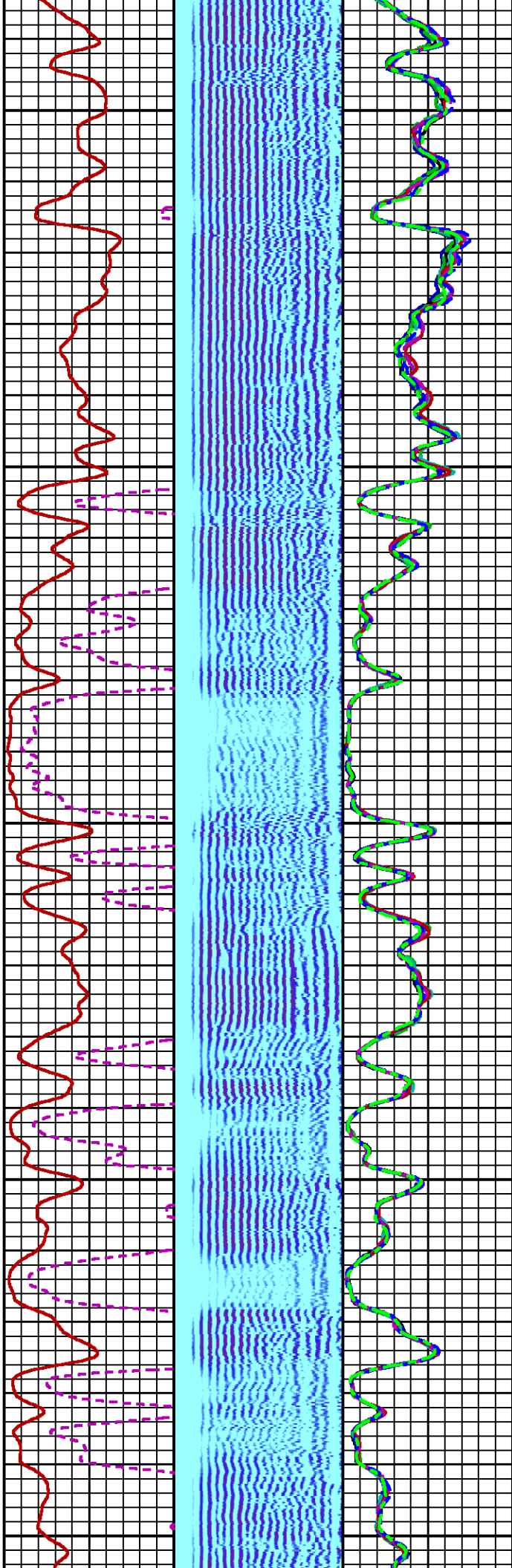
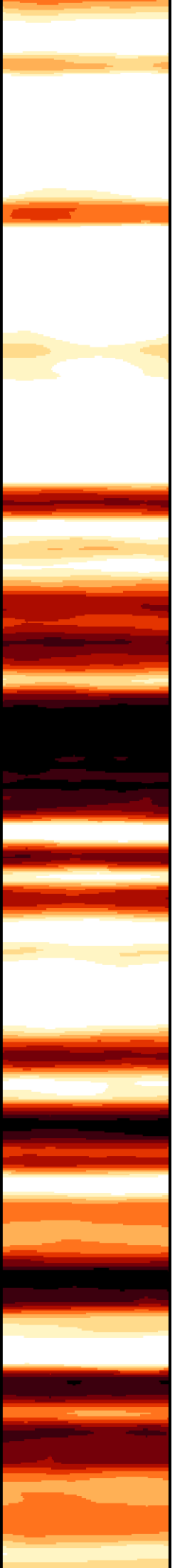




6200

6300

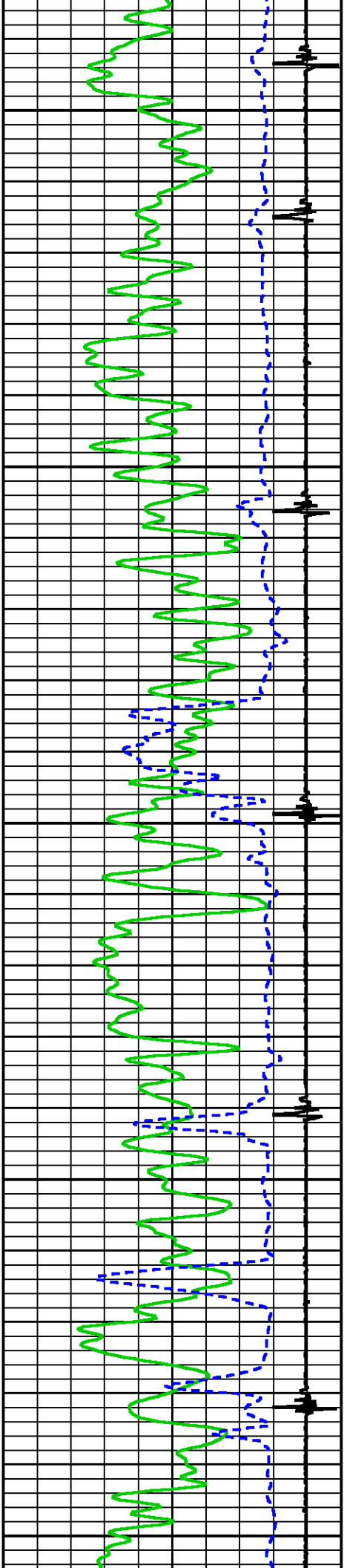


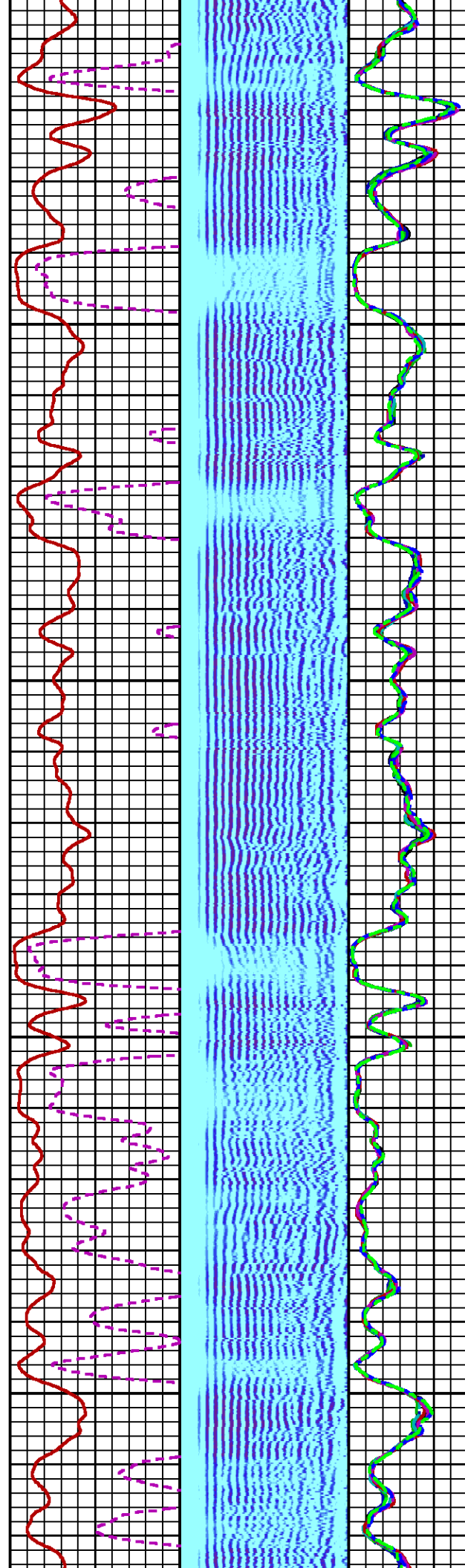
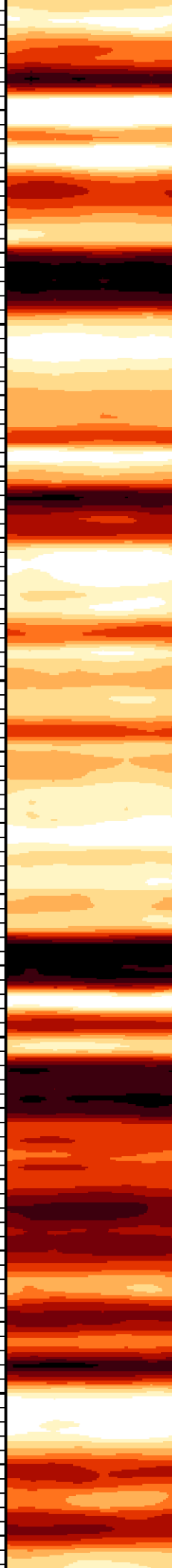


6400 S

6500

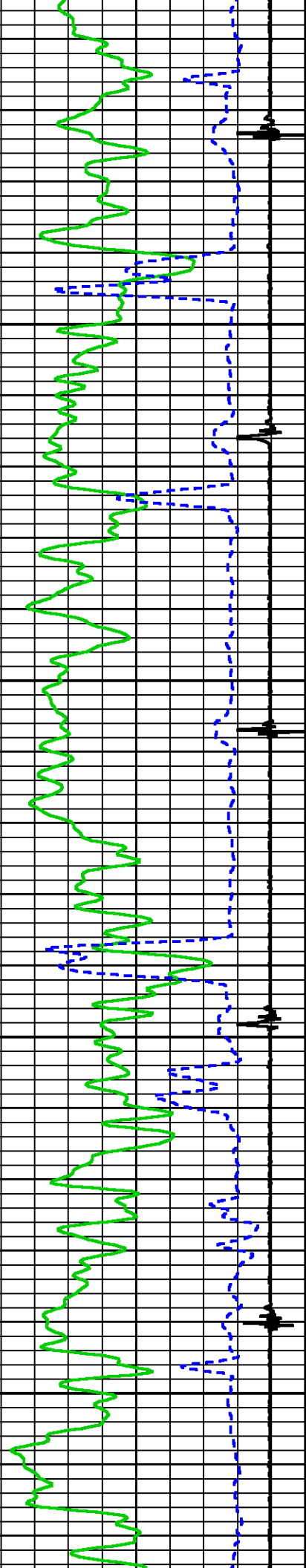
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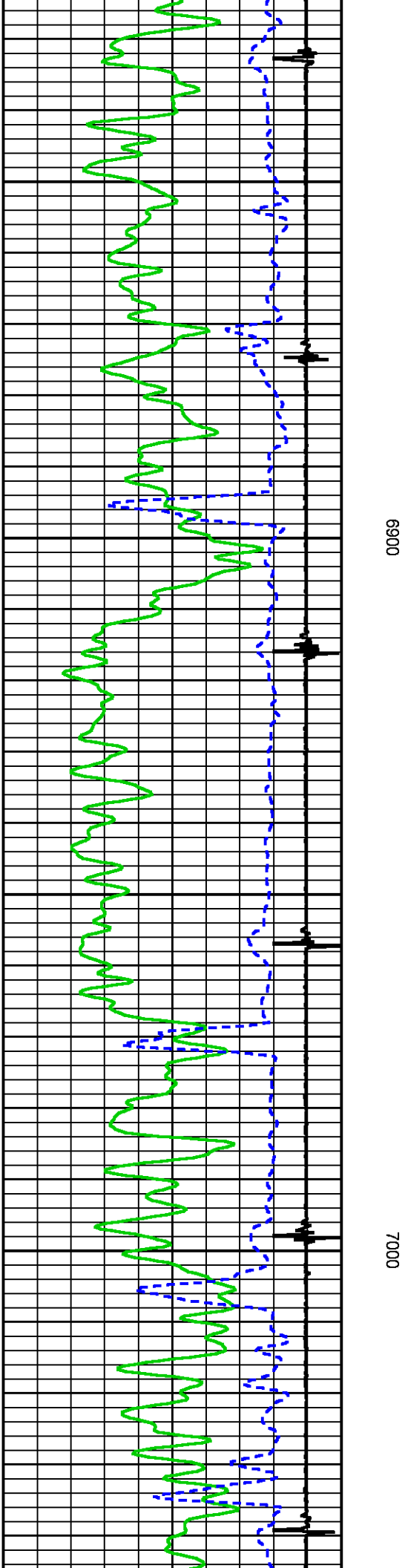
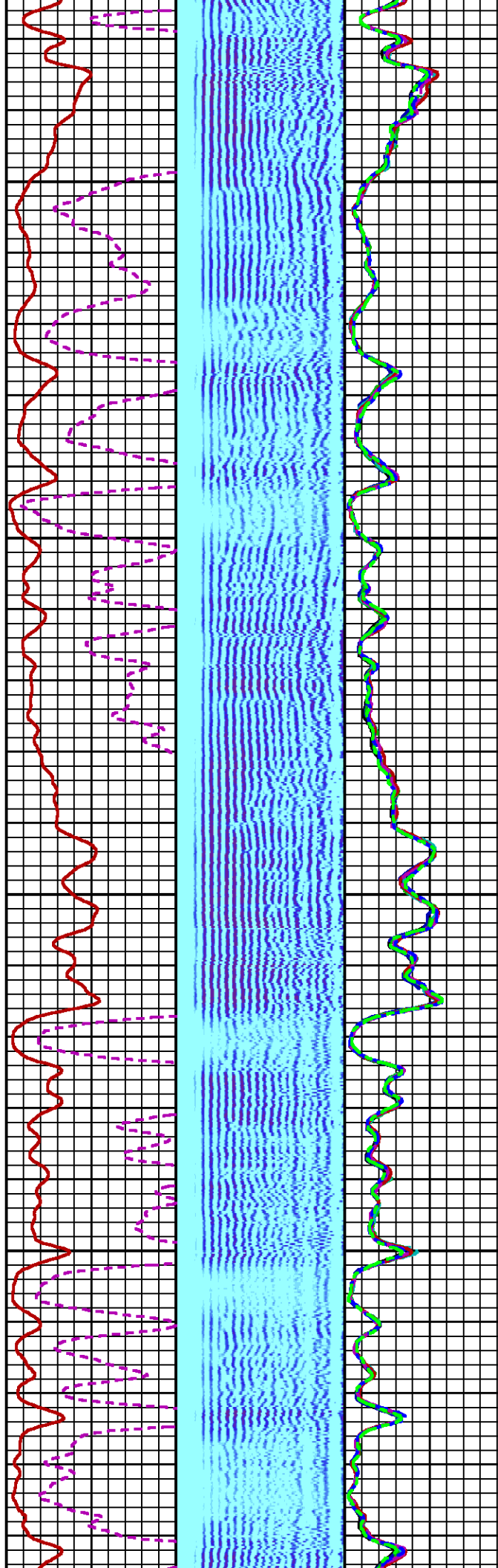
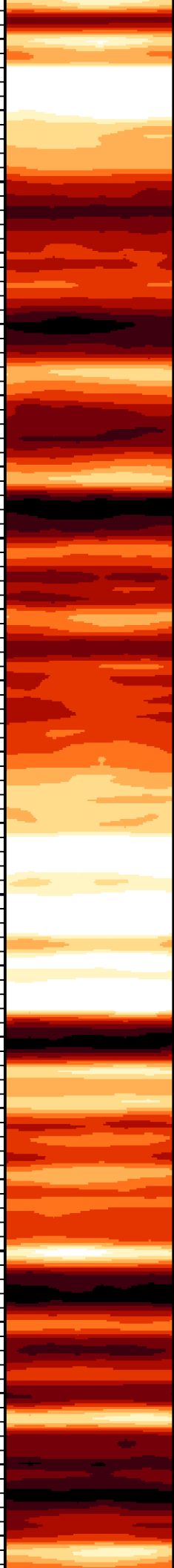


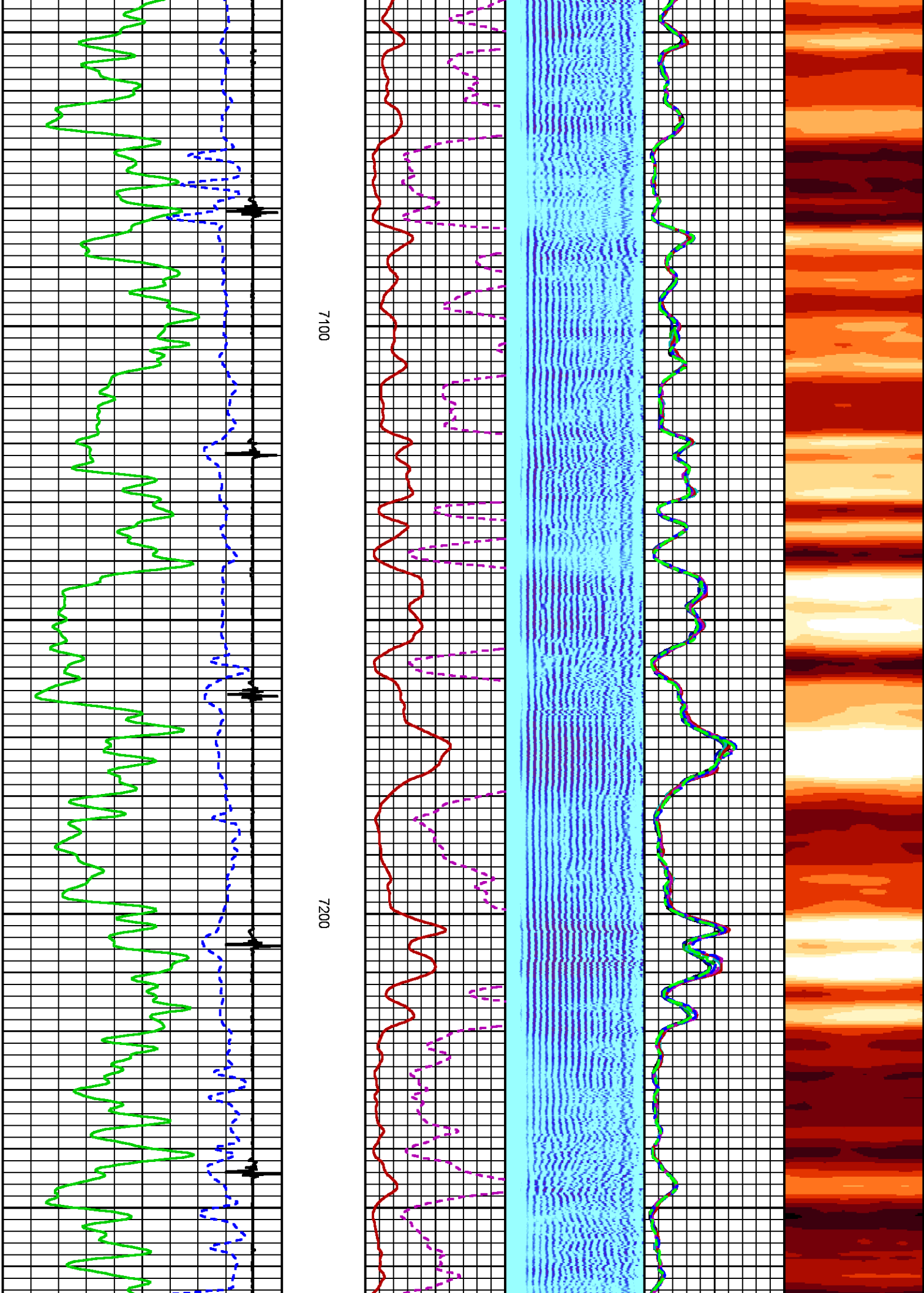


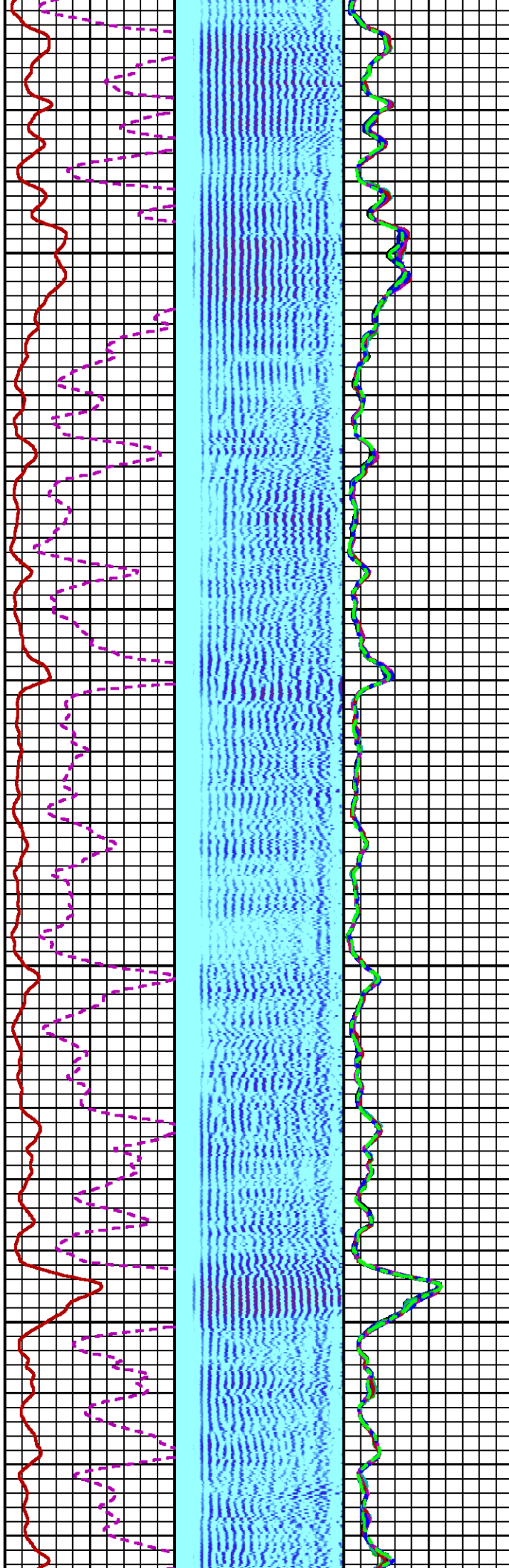
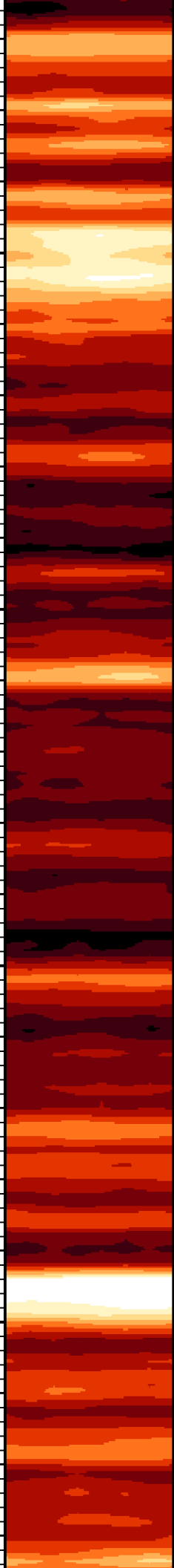
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6800





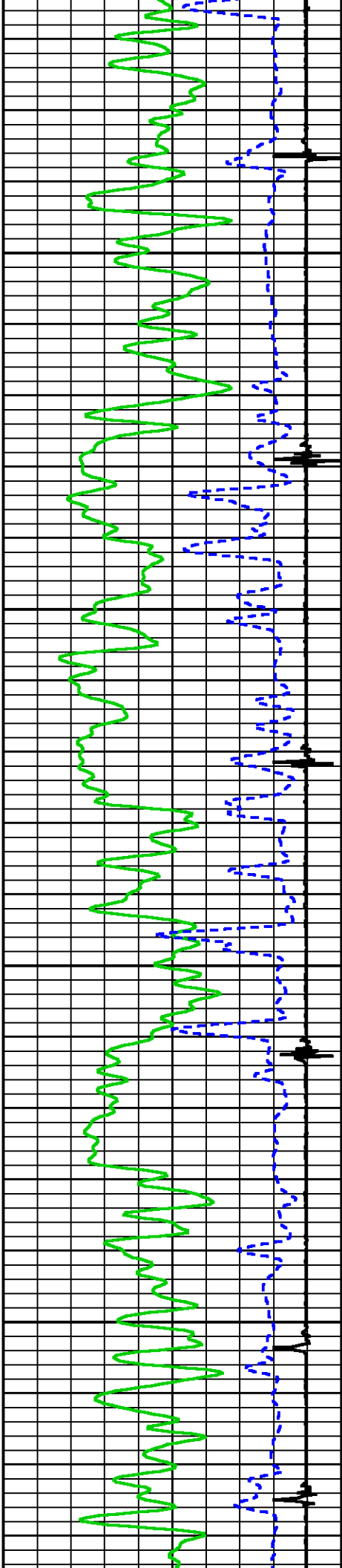


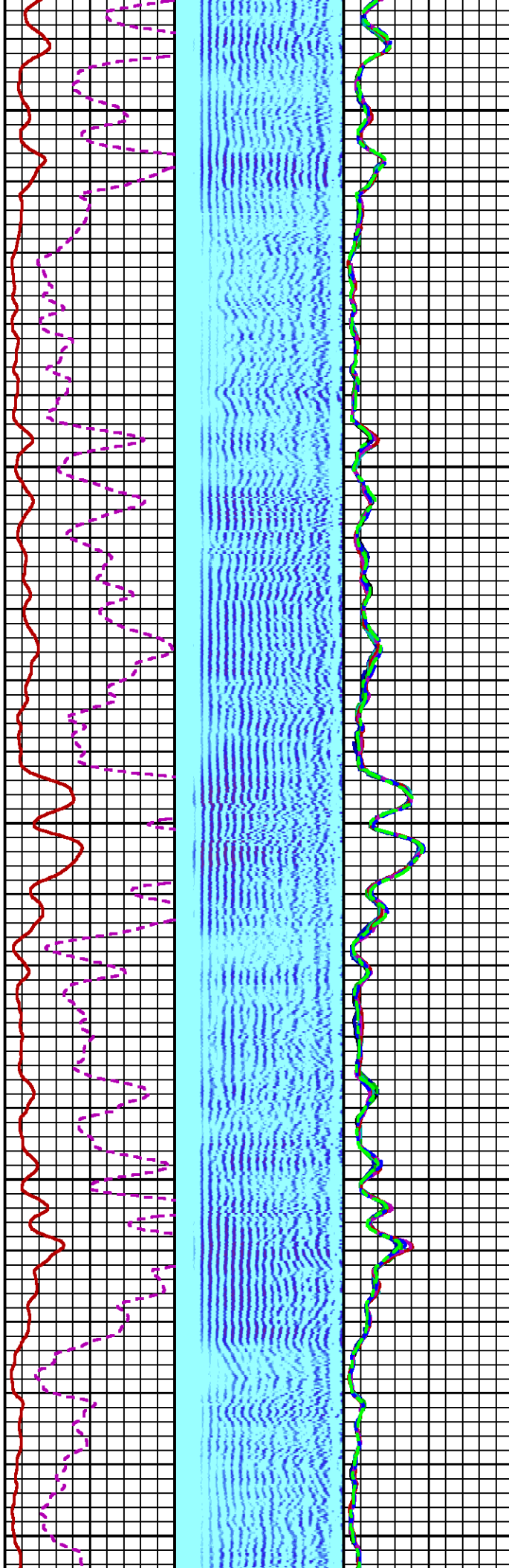
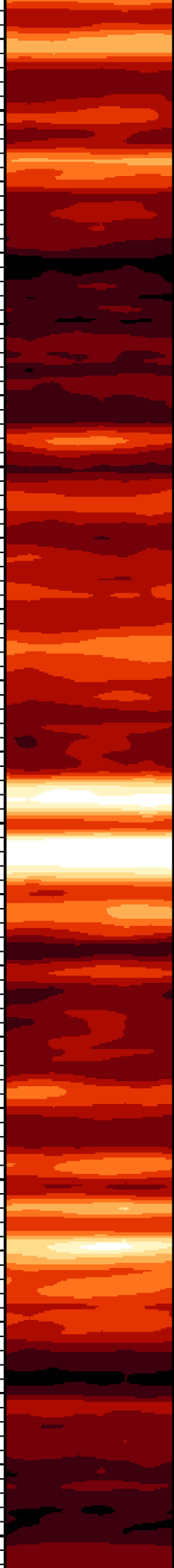


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7400

SJ

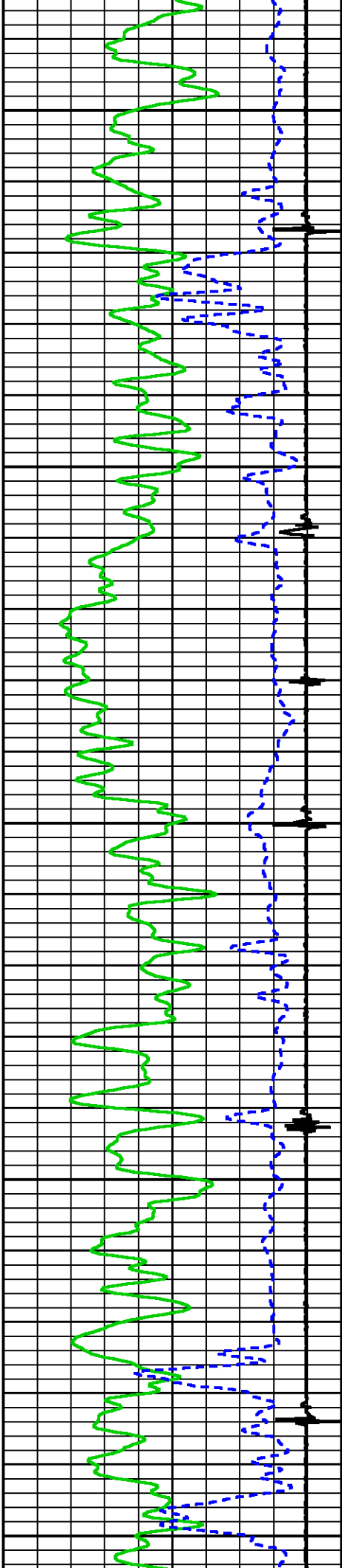


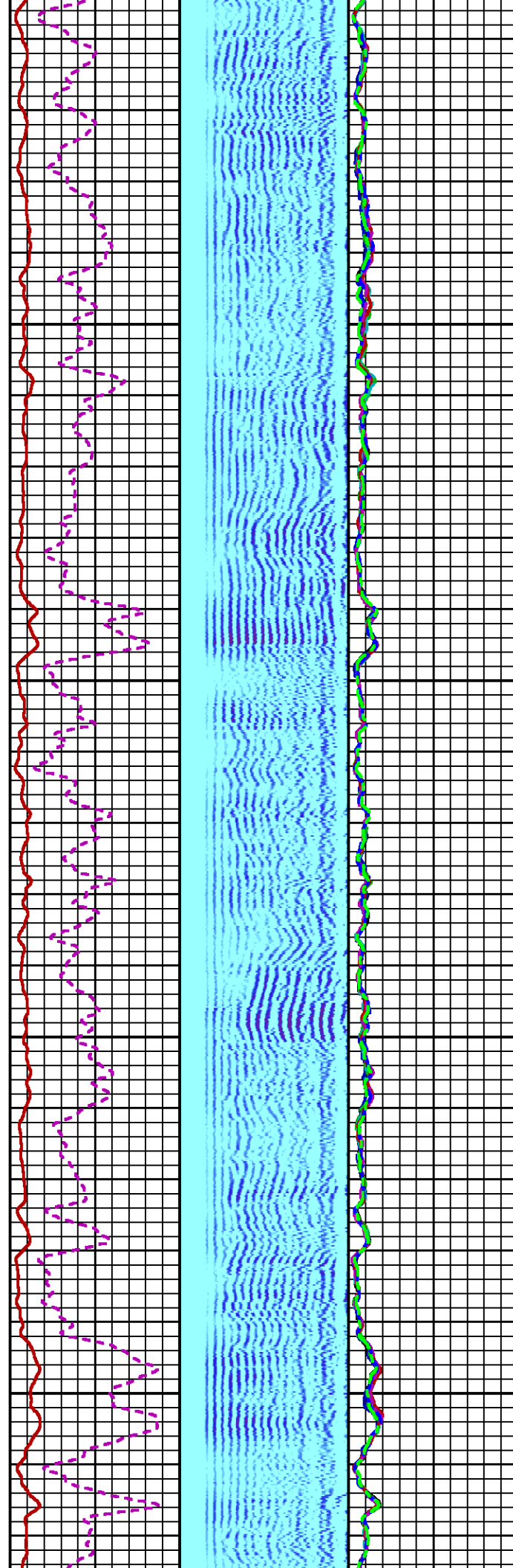
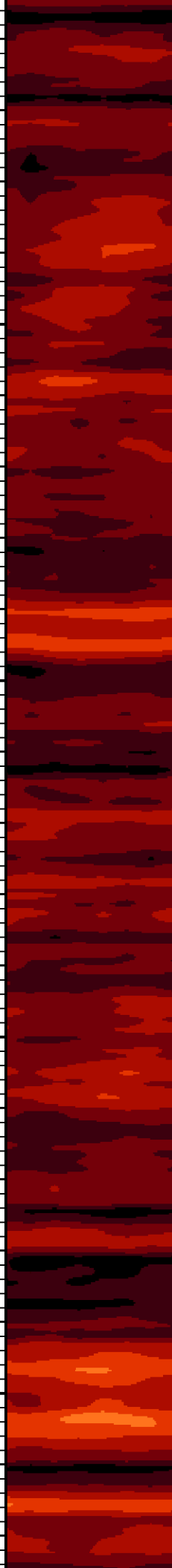


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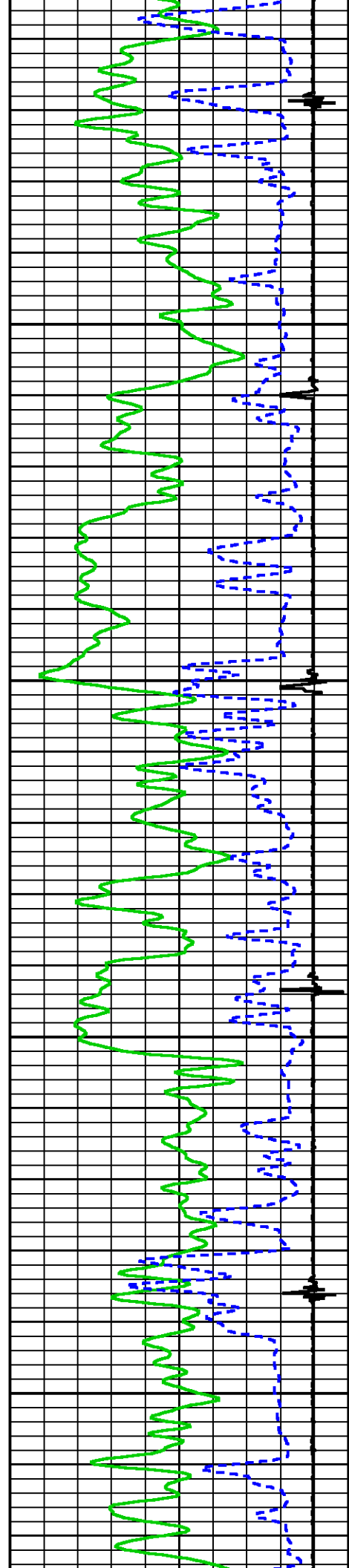
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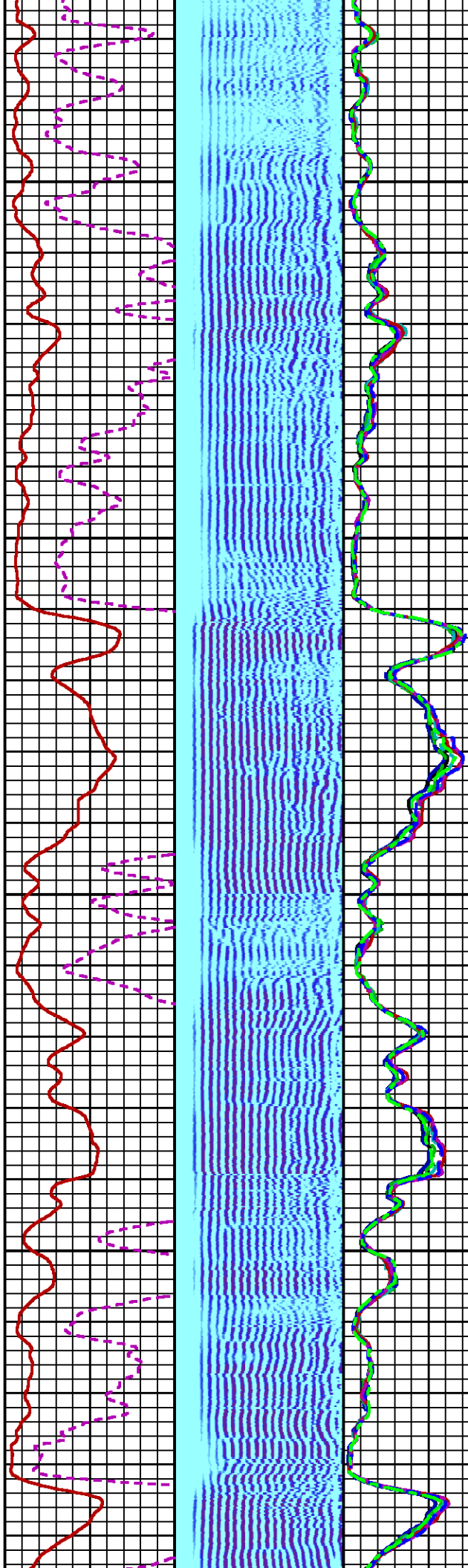
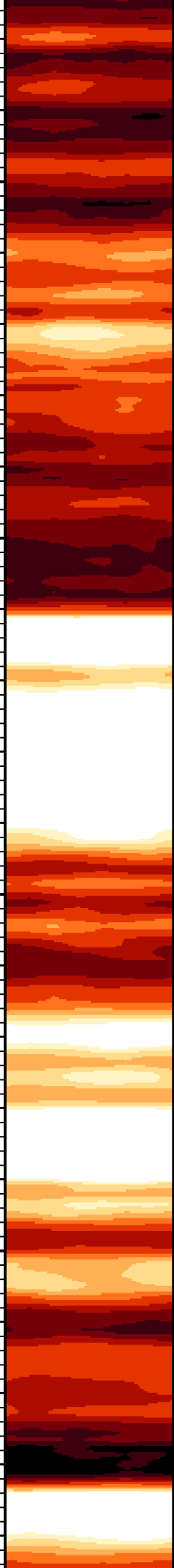




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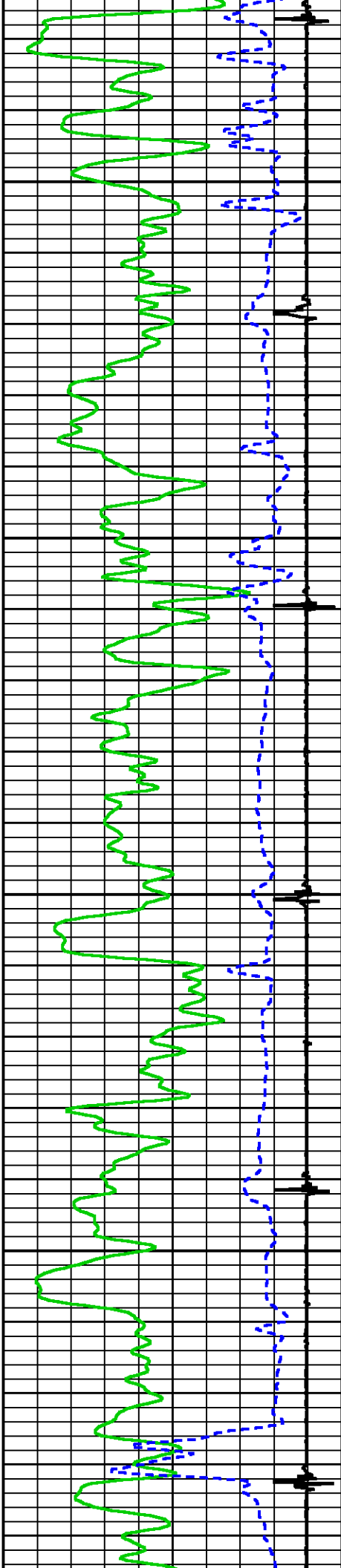
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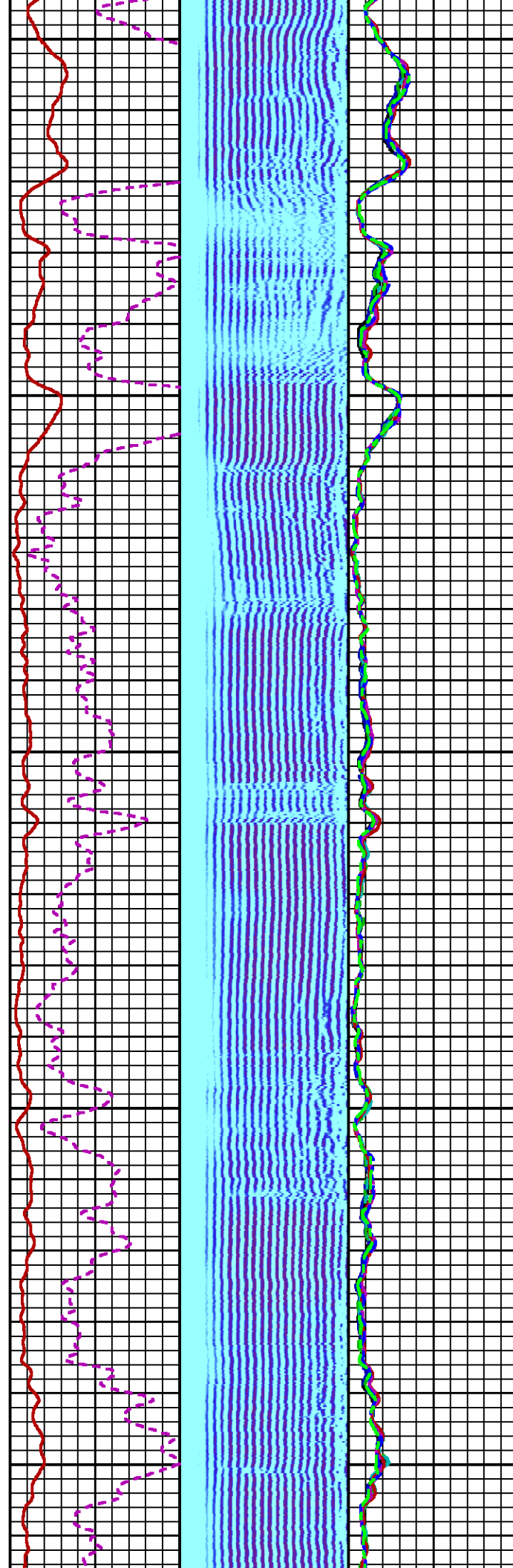
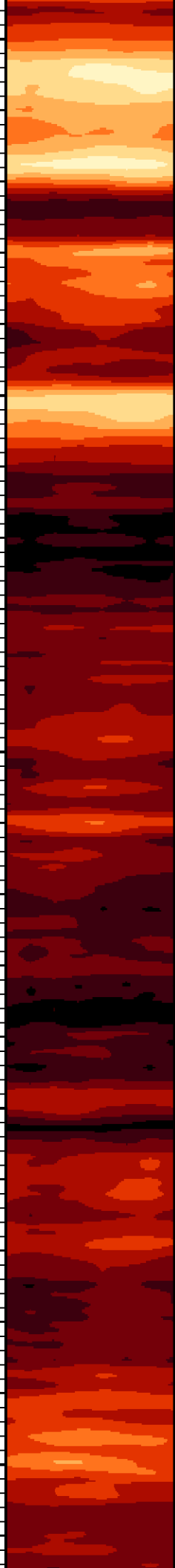




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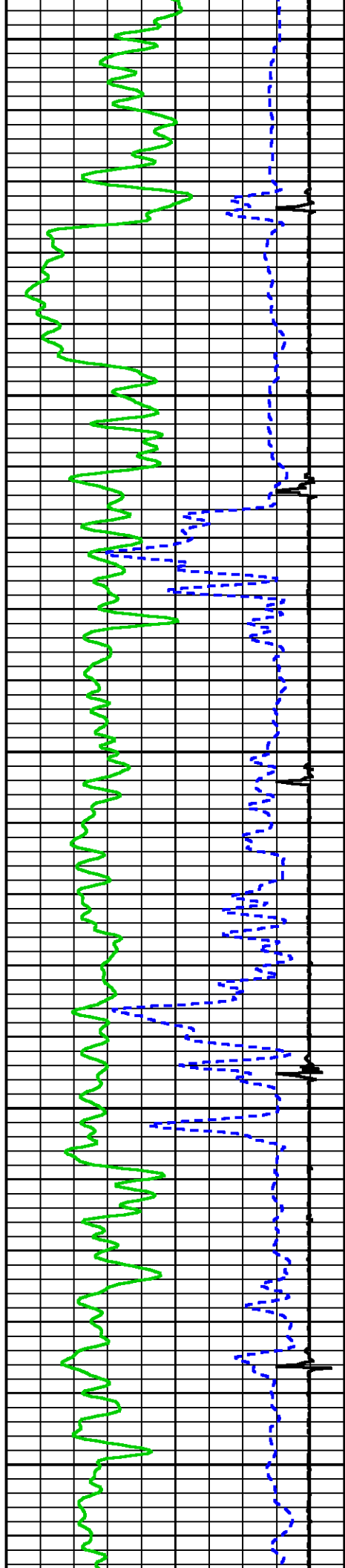
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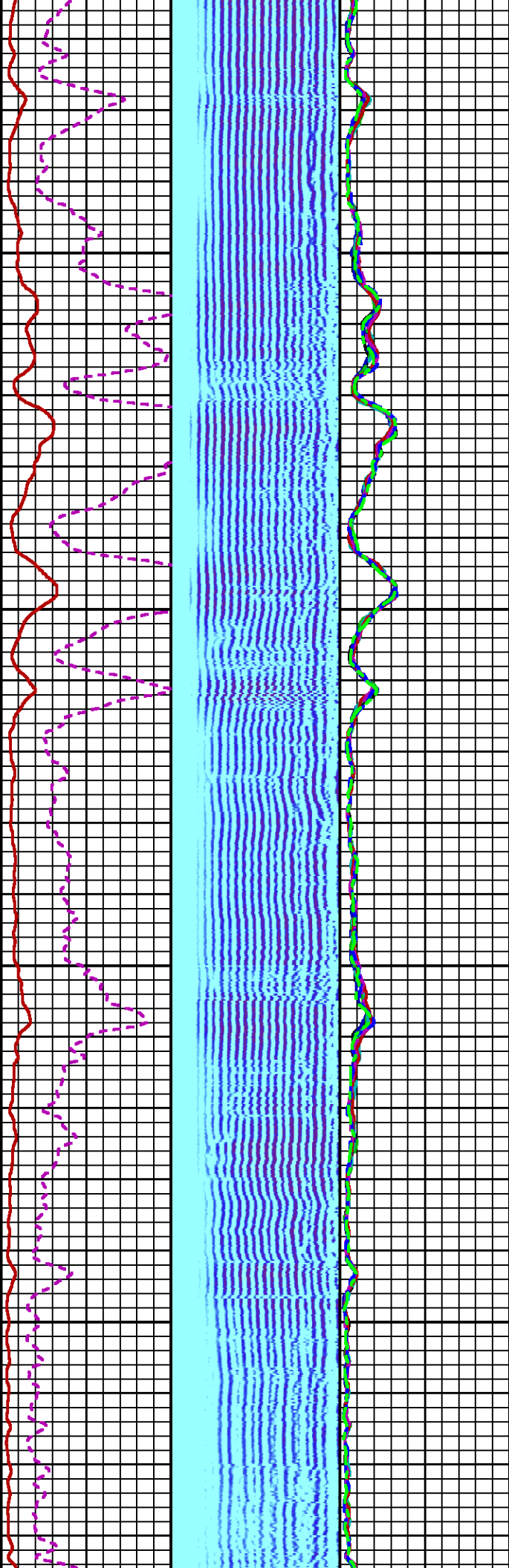
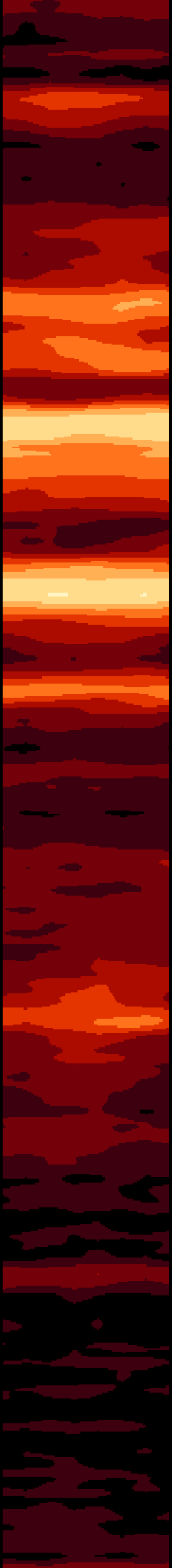




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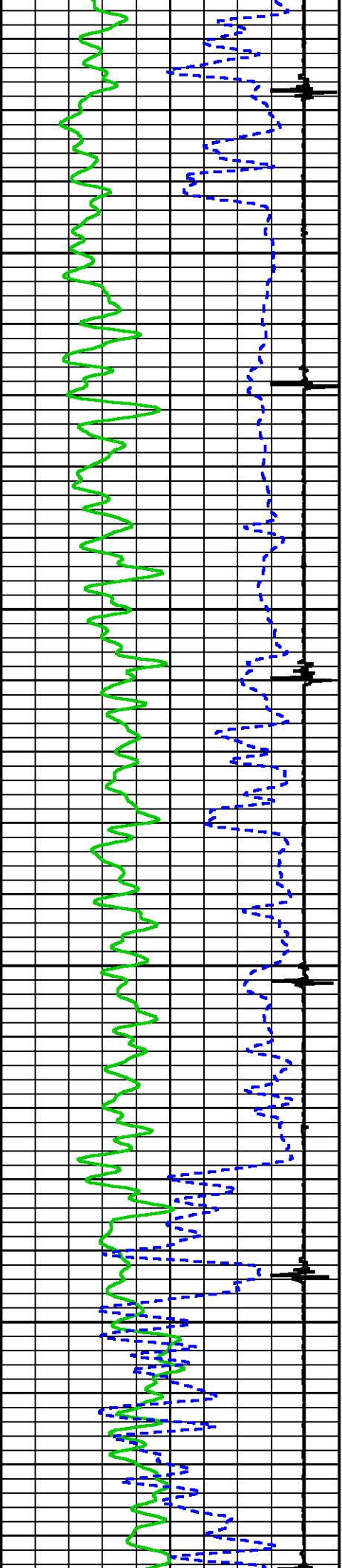
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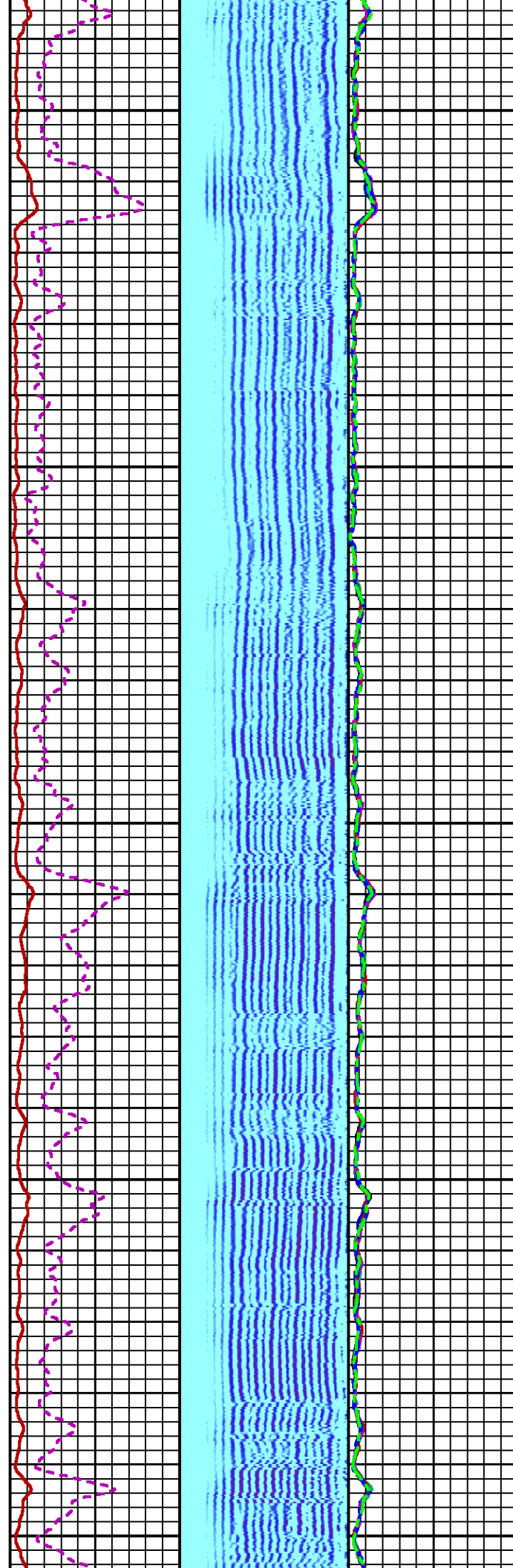
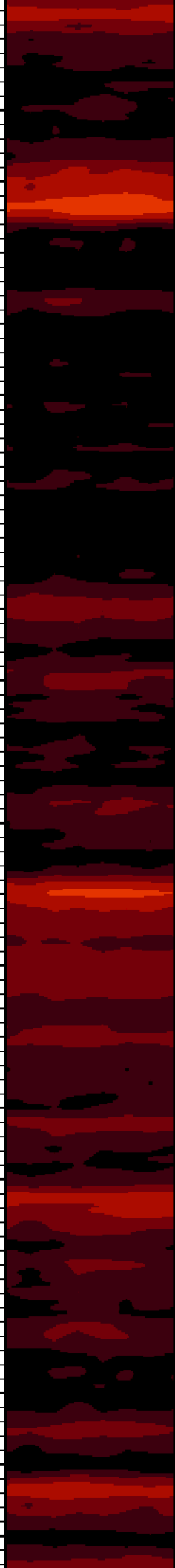




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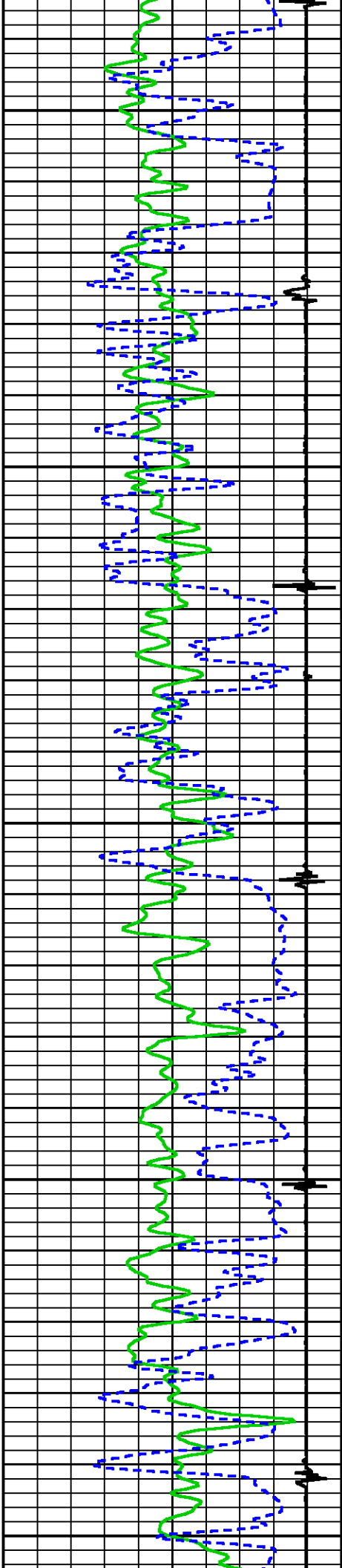


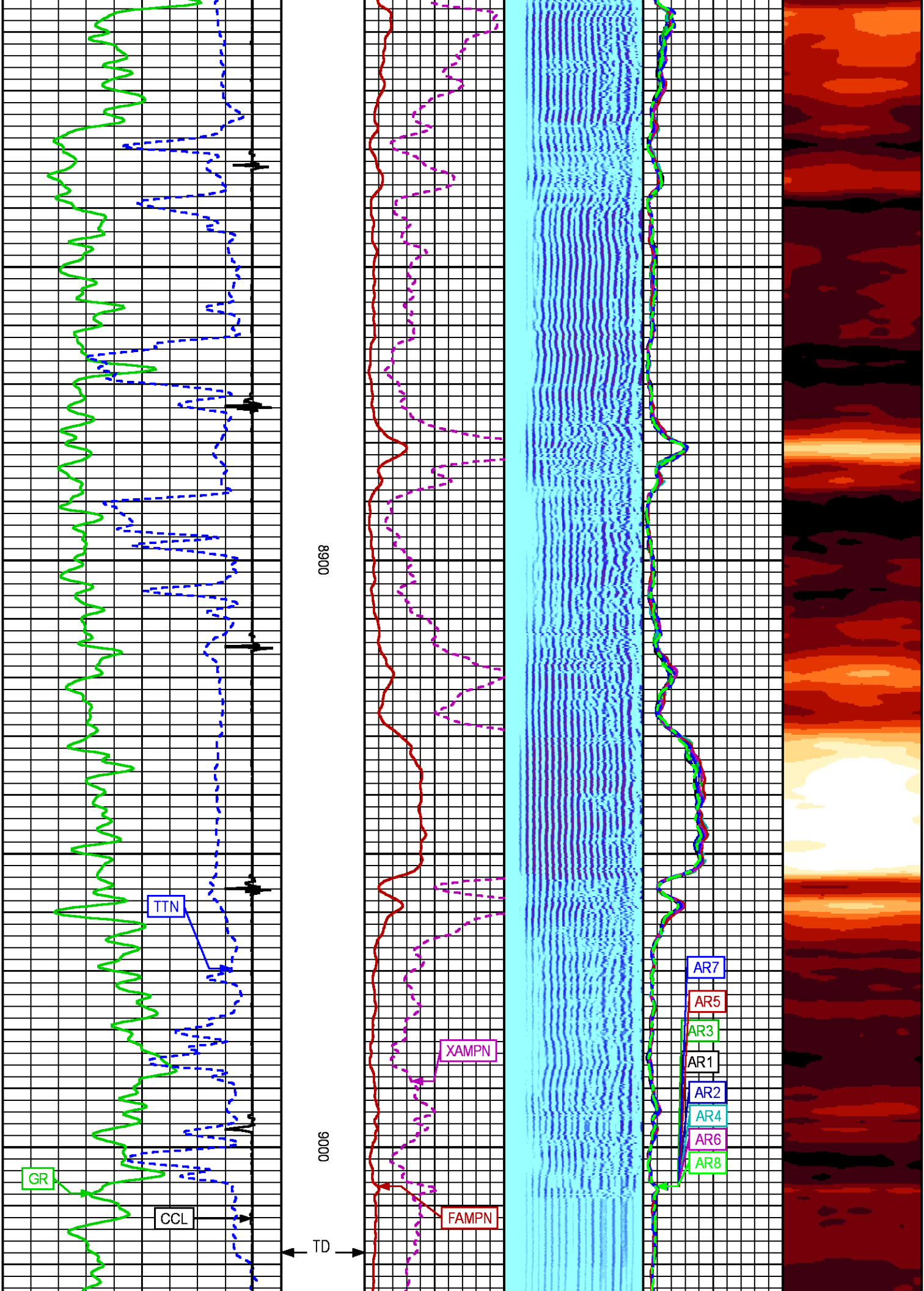


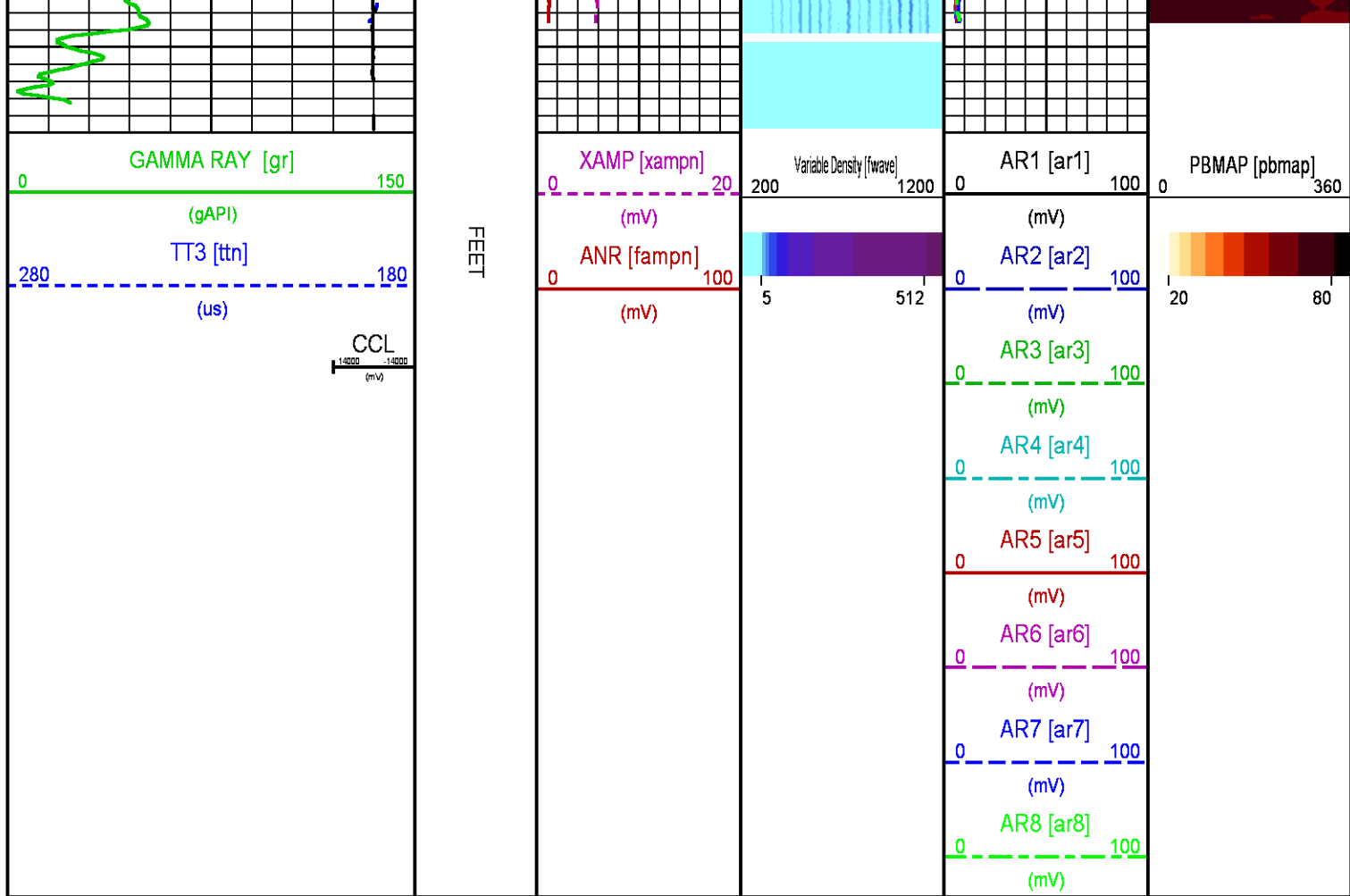
8600

8700

8800







REPEAT PASS 0 PSI

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017
Updates: 1,32

Plotted: Tue Nov 27 14:59:58 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BCU_0993-21-06E/p012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 8681.500 ft BOTTOM DEPTH: 8989.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"

RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0.00		TOP	BOTTOM

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
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AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-66	us	"	"
	TOOL DELAY (str2*)	-66	us	"	"
	TOOL DELAY (str3*)	-66	us	"	"
	TOOL DELAY (str4*)	-66	us	"	"
	TOOL DELAY (str5*)	-66	us	"	"
	TOOL DELAY (str6*)	-66	us	"	"
	TOOL DELAY (str7*)	-66	us	"	"
	TOOL DELAY (str8*)	-66	us	"	"
	TOOL DELAY (strn*)	-66	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

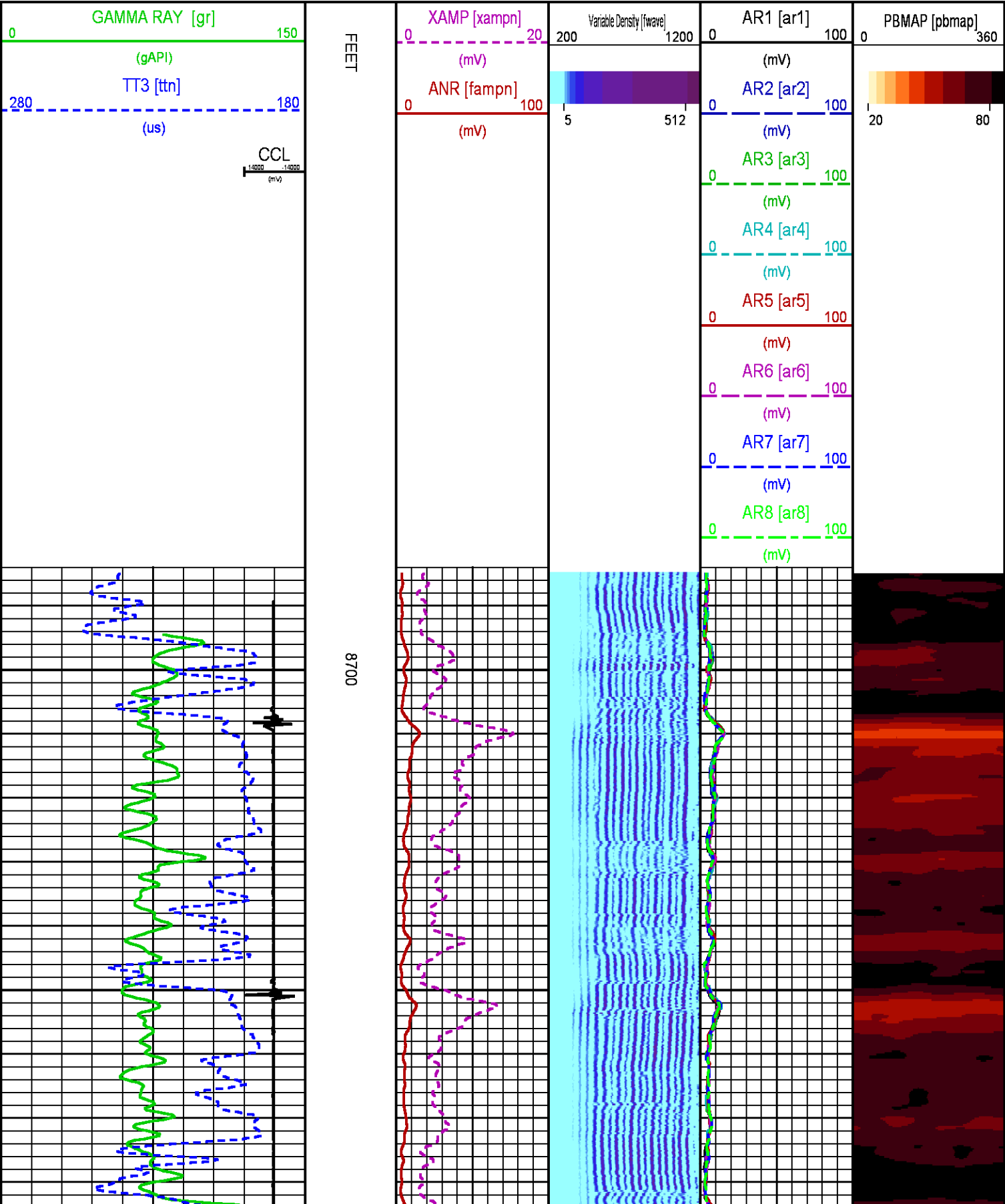
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R1
F1:AR2	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R2
F1:AR3	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R3
F1:AR4	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R4
F1:AR5	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R5
F1:AR6	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R6
F1:AR7	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R7
F1:AR8	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE T-R8
F1:CCL	Nov 27 10:48:30 2018	CASING COLLAR LOCATOR
F1:FAMPN	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Nov 27 10:48:30 2018	FAR WAVE FORM
F1:GR	Nov 27 10:48:30 2018	GAMMA RAY
F1:PBMAP	Nov 27 10:48:30 2018	PERCENT BOND CEMENT MAP
F1:TTN	Nov 27 10:48:30 2018	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Nov 27 10:48:30 2018	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

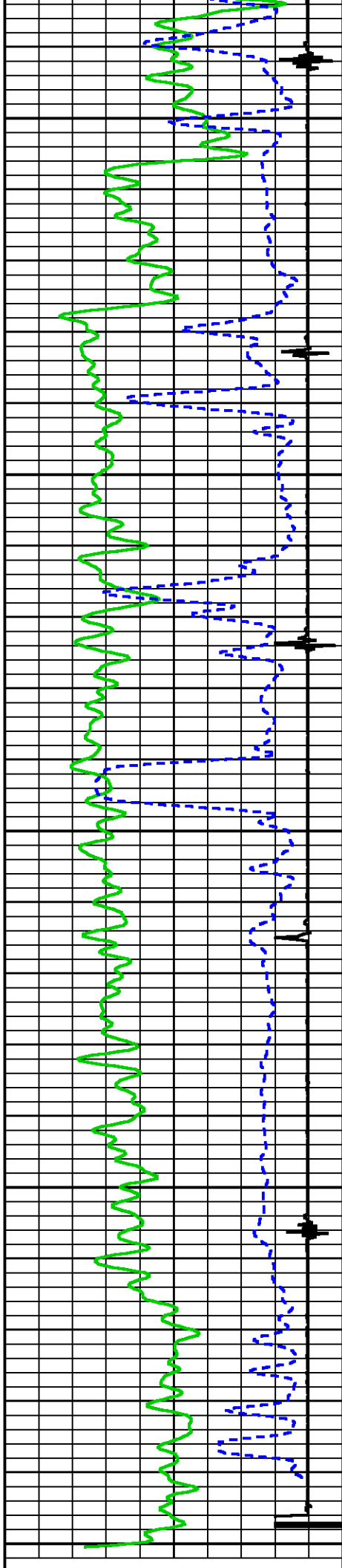
CURVE MEASURE POINT OFFSET

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 : SysA:/dat1a/LARAMIE_BCU_0993-21-06E/BCU_0993-21-06E_RAL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 8684.75 - 9002.25 Feet

Data File 1 : F1 : SysA:/dat1a/LARAMIE_BCU_0993-21-06E/45_LARAMIE_BCU_0993-21-06E_RAL_REPEAT.xtf
Created On : Nov 27 10:48:30 2018
Company : LARAMIE ENERGY LLC
Well : BCU 0993-21-06E
Field : BUZZARD CREEK
File Interval : 8681 - 9003.5 Feet
OCT : p012g

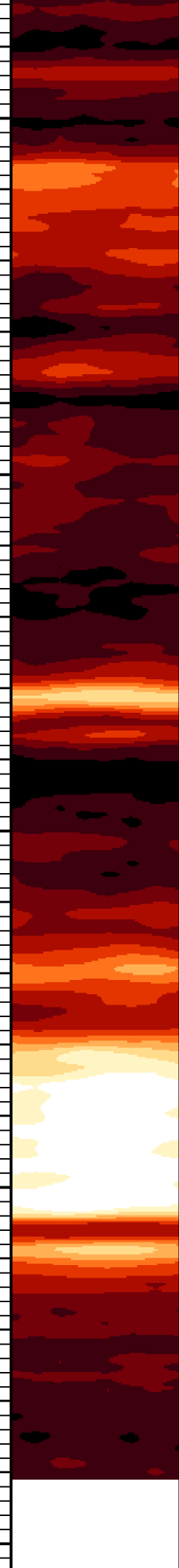
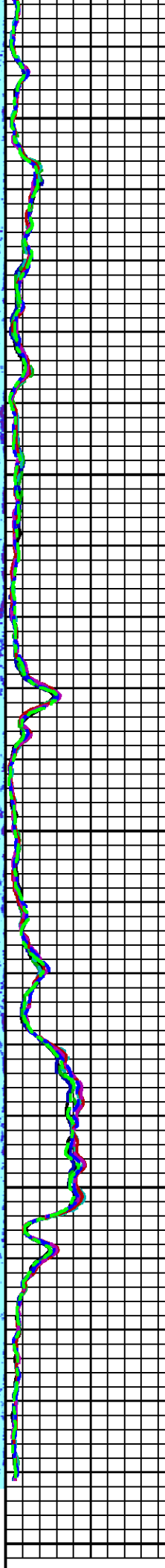
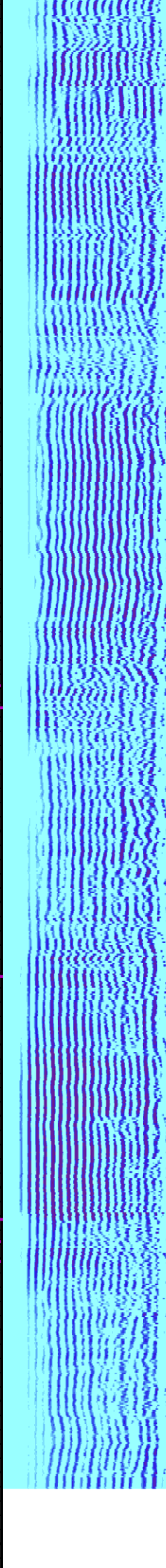
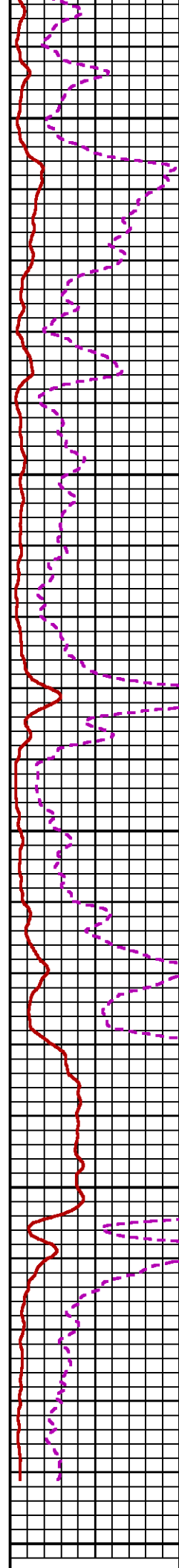


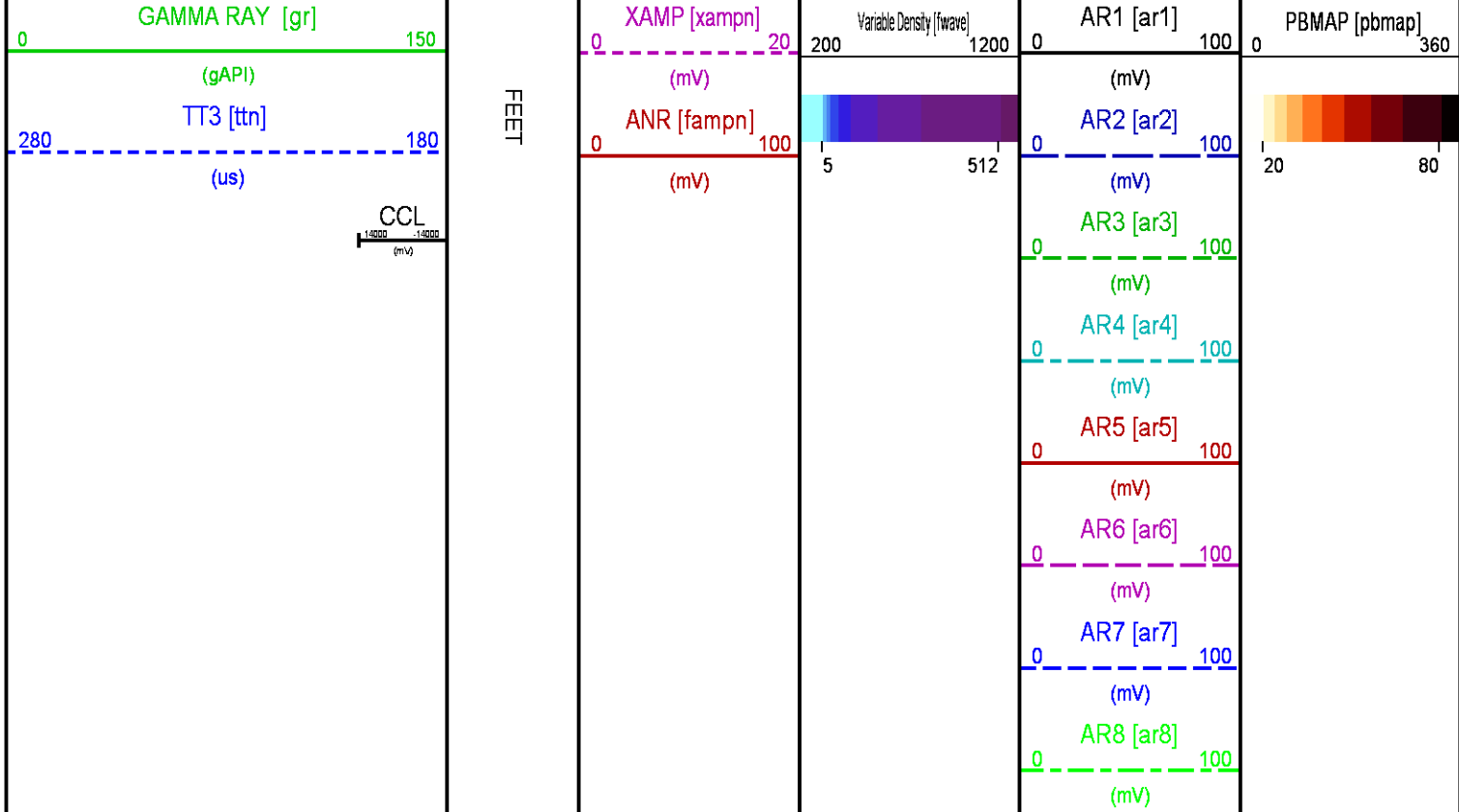


0006

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INSTRUMENT CONFIGURATION

Source File: /dat1a/LARAMIE_BCU_0993-21-06E/p012g~RAL-tdg

A3 CABLEHEAD
Diameter : 1.37"

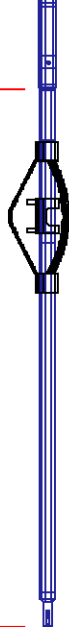
RADIAL BOND TOOL

Diameter : 2.75"
Length : 11.17'
Weight : 126 lbs
Series : 1426XA
Mnemonic : RAL
Measure Point: 5.75': XMTR
Measure Point: 4.21': NEAR MP
Measure Point: 3.25': FAR MP
Measure Point: 2.67': NEAR RCVR
Measure Point: 0.75': FAR RCVR

18.85'
XMTR 12.71'
NEAR MP 11.17'
FAR MP 10.21'
NEAR RCVR 9.62'

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



FAR RCVR 7.71'

CCL 5.79'

GR 1.67'

TEMP 0.17'

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

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/LARAMIE_BCU_0993-21-06E/p012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 11871500

DATE/TIME PERFORMED: Tue Nov 27 10:06:12 2018

UNIT #: 5753XD 111111

	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)	-0.20	-0.04	0.00	-0.14	-0.03	-0.03	-0.01	0.24	0.00	-0.69	0.00
AMP FLUID (mV)	37	36	36	36	37	37	37	36	36	50	36
TT (us)	217	217	217	216	216	216	215	215	217	324	217
M FACTOR	2.68	2.76	2.76	2.73	2.70	2.69	2.68	2.77	2.75	2.97	2.81

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 11871500

DATE/TIME PERFORMED: Tue Nov 27 10:09:05 2018

DAYS SINCE CAL: 0

UNIT #: 5753XD 111111

CABLE #: ML4291 SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-2.06	-1.45	-0.97	-2.11	-2.16	-1.18	-1.42	-0.30	-0.45	-4.05	0.00
AMP AIR	2.24	1.49	1.01	2.16	2.33	1.21	1.54	0.30	0.45	3.38	100.17

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871507

DATE/TIME PERFORMED: Sun Jul 22 17:33:05 2018

UNIT #: 5753XD 10412898

CALB JIG #: 4702NK DA-438

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	145.29	316.44	171.2	0.876	127.33	277.33	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871507

DATE/TIME PERFORMED: Sun Jul 22 17:34:29 2018

UNIT #: 5753XD 10412898

VERI JIG #: 4702NK DA-438

	BACKGROUND CALBRTR ON		MULT	BACKGROUND CALBRTR ON	DIFF.
	(cts)	(cts)		(gAPI)	(gAPI)
GR	148.04	317.09	0.876	129.75	277.90
					148.16
					140.00 160.00

**BAKER
HUGHES**
a GE company



COMPANY LARAMIE ENERGY LLC

WELL BCU 0993-21-06E

FIELD BUZZARD CREEK

COUNTY MESA **STATE** COLORADO

FILE NO:

CH145360

API NO:

05077105190000

LOCATION:

SHL: 1358.0' FNL & 1322.0' FEL
BHL: 1358.0' FNL & 1322.0' FELL

SEC 21 TWP 9S RGE 93W

ELEVATIONS:

KB 7287 FT

DF

GL 7257 FT

DATE 27-NOV-2018

ECLIPS