



FILE NO:	COMPANY	TEP ROCKY MOUNTAIN LLC	
API NO:	WELL	YOUBERG RU 321-7	
05045231340000	FIELD	RULISON	
	COUNTY	GARFIELD	
	STATE	COLORADO	
Ver. 4.06	LOCATION:	OTHER SERVICES	
	SHL: 1984' FNL & 1904' FWL	RPM	
	BHL: 487' FNL & 2191' FWL		
	SEC 7	TWP 7S	RGE 93W
PERMANENT DATUM	GL	ELEVATION	7339 FT
LOG MEASURED FROM	KB	24 FT	ABOVE P.D.
DRILL. MEAS. FROM	KB		
		ELEVATIONS:	KB 7363 FT
			DF
			GL 7339 FT

DATE		21-OCT-2016			
RUN	TRIP	1	1		
SERVICE ORDER		US109698			
DEPTH DRILLER		9772 FT			
DEPTH LOGGER		9735 FT			
BOTTOM LOGGED INTERVAL		9733 FT			
TOP LOGGED INTERVAL		24 FT			
TIME STARTED		14:00			
TIME FINISHED		17:00			
OPERATOR RIG TIME		3 HRS			
TYPE OF FLUID IN HOLE		WATER			
FLUID DENSITY		NA			
FLUID SALINITY		NA			
FLUID LEVEL		56 FT			
LOGGED CEMENT TOP		SEE LOG			
WELLHEAD PRESSURE		0 PSI			
MAXIMUM HOLE DEVIATION		NA			
NOMINAL LOGGING SPEED		100 F/MIN			
MAX. RECORDED TEMP.		243 DEGF			
REFERENCE LOG		NA			
REFERENCE LOG DATE		NA			
EQUIP. NO.	LOCATION	HL-6670	WOODWARD		
RECORDED BY		M.MENTZER			
WITNESSED BY		MR. KYLE KOHL			

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
13.5 IN	0 FT	1124 FT
8.75 IN	1124 FT	9772 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	-	-	0 FT	1124 FT
4.53 IN	11.6 LB/F	-	0 FT	9772 FT

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELL*

OPERTION 1: RAL/GR/CCL RUN CENTRALIZED

WELL LOGGED WITH 0 PSI ON THE WELLHEAD

BHT: 234 DEGF

SHORT JOINT: 6004' - 6026'

CREW: K.NUTTER, J.PENA

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426 XA	10154957	CENTRALIZED
1	1	GR/CCL	1355 XA	110827	CENTRALIZED

MAIN LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1,36 Patches: 9

Plotted: Wed Oct 26 15:45:53 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_RU_321_7/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 18.750 ft BOTTOM DEPTH: 9737.500 ft

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

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

ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	182	us	TOP	BOTTOM
	AMP WINDOW LENGTH	21	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

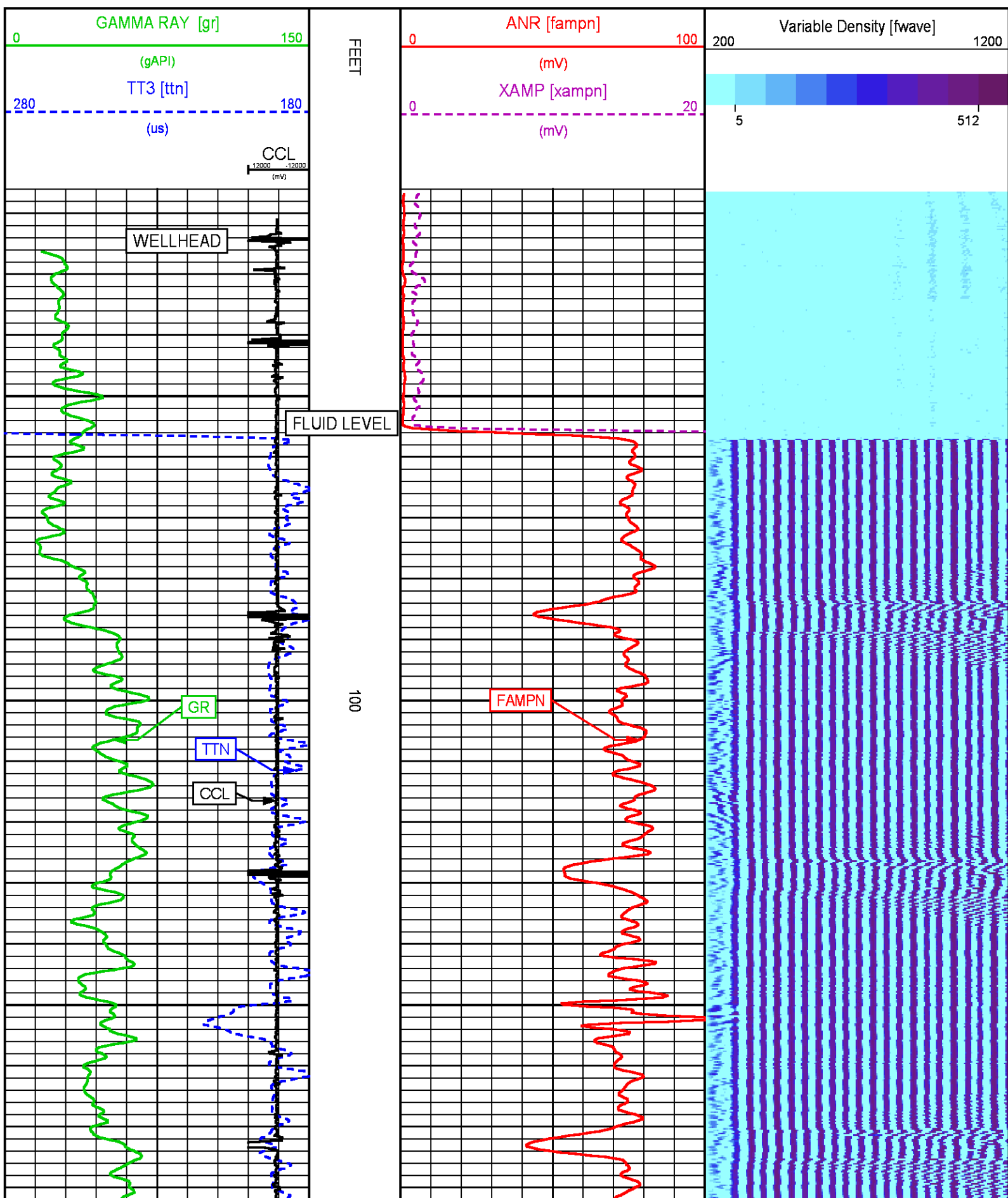
CURVE DESCRIPTION REPORT

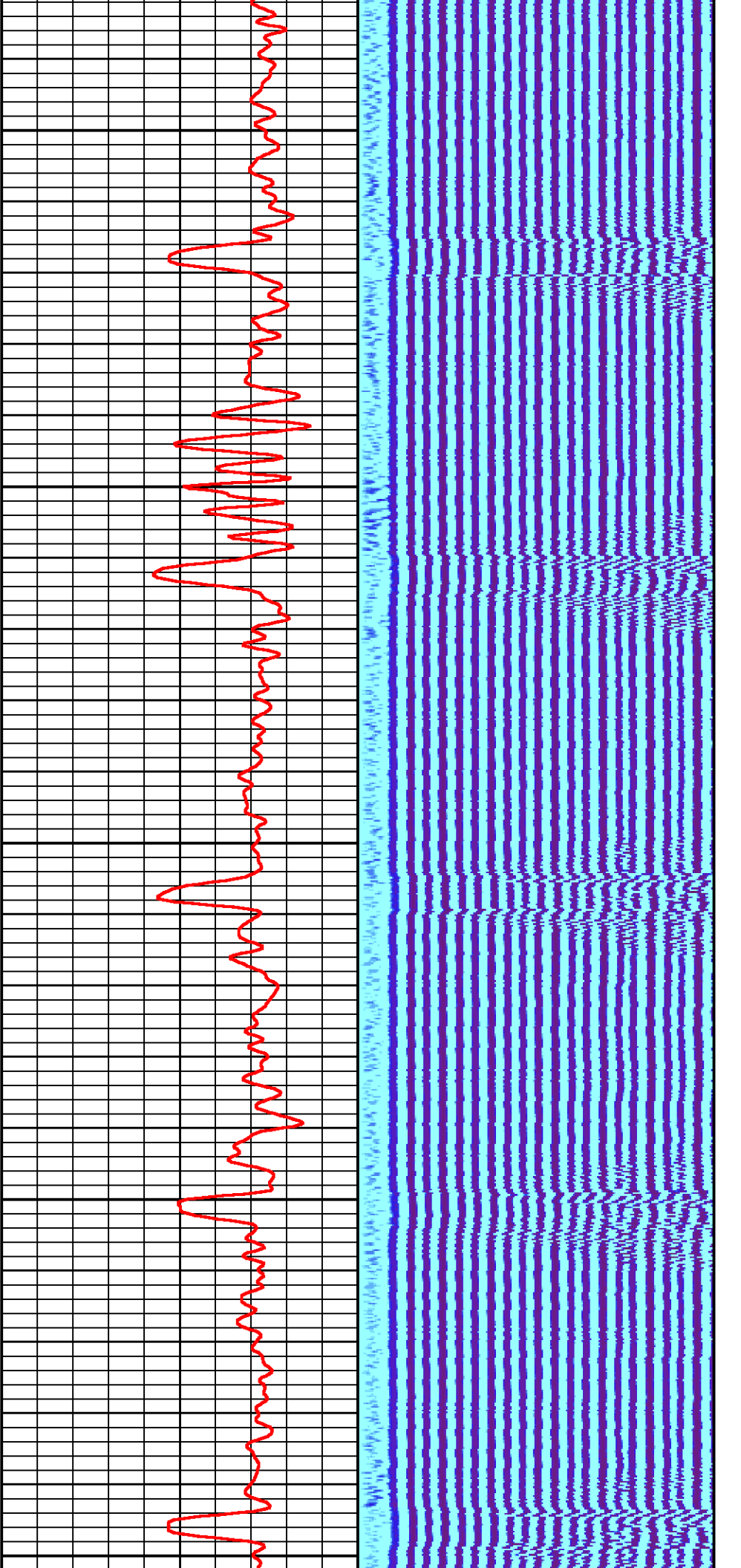
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Oct 21 17:23:19 2016	CASING COLLAR LOCATOR
F1:FAMPN	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 21 17:23:19 2016	FAR WAVE FORM
F1:GR	Oct 21 17:23:19 2016	GAMMA RAY
F1:TTN	Oct 21 17:23:19 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 21 17:23:19 2016	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 : cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/ral_cbl+01-MAIN-RAL_MN_321-5.fvpd [5"/100' Scale]
Plot Interval : 16.5 - 9744 Feet

Data File 1 : F1 : cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/RAL_MN_321.xtf
Created On : Oct 21 17:23:19 2016
Company : TEP ROCKY MOUNTAIN LLC
Well : YOUBERG RU 321-7
Field : RULISON
File Interval : 15.5 - 9745.5 Feet
OCT : n012g

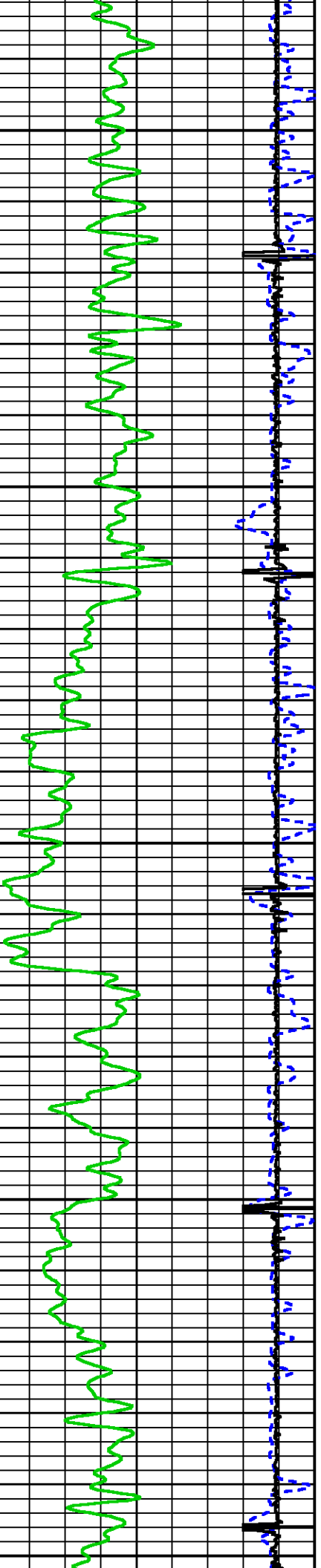


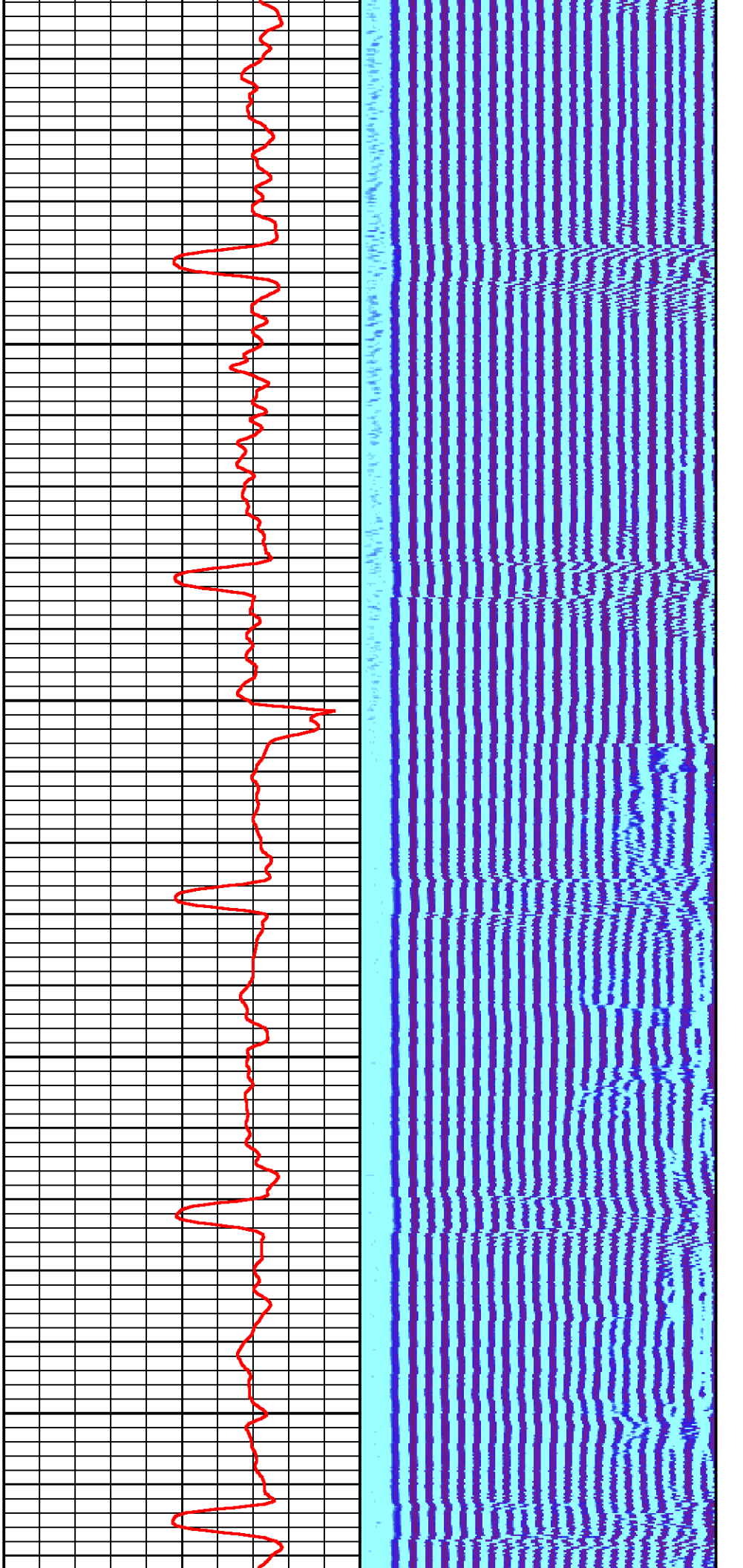


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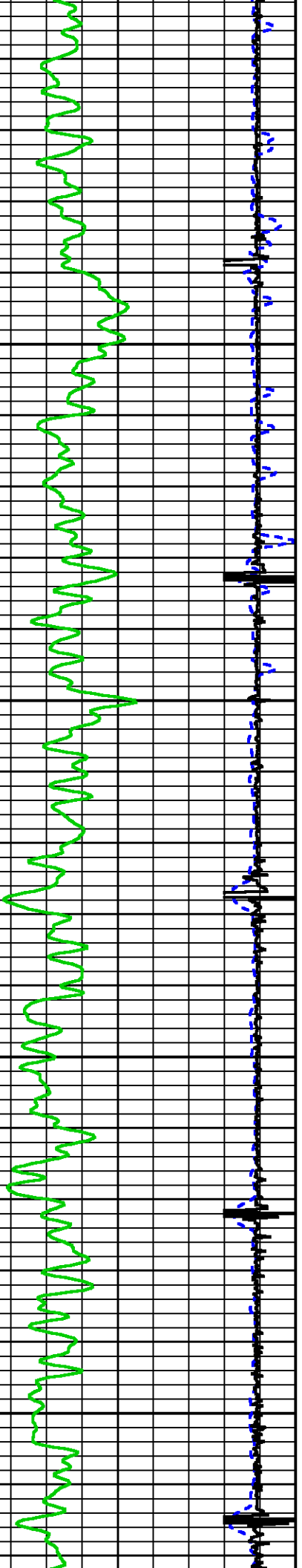
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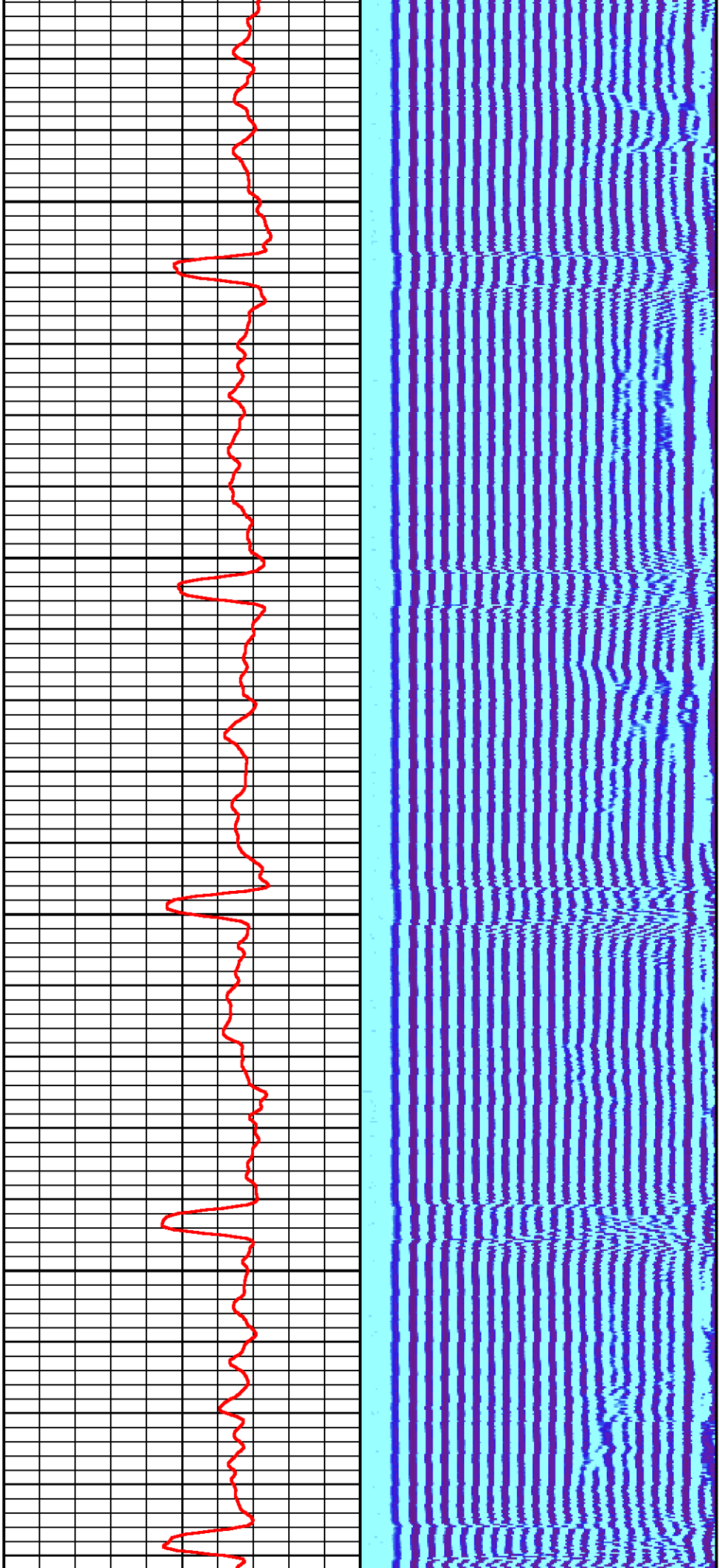




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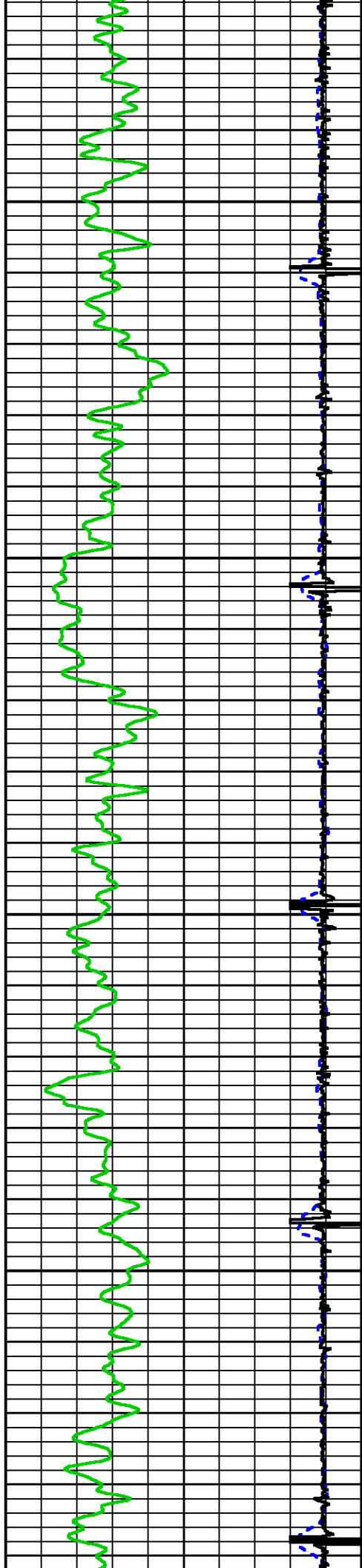
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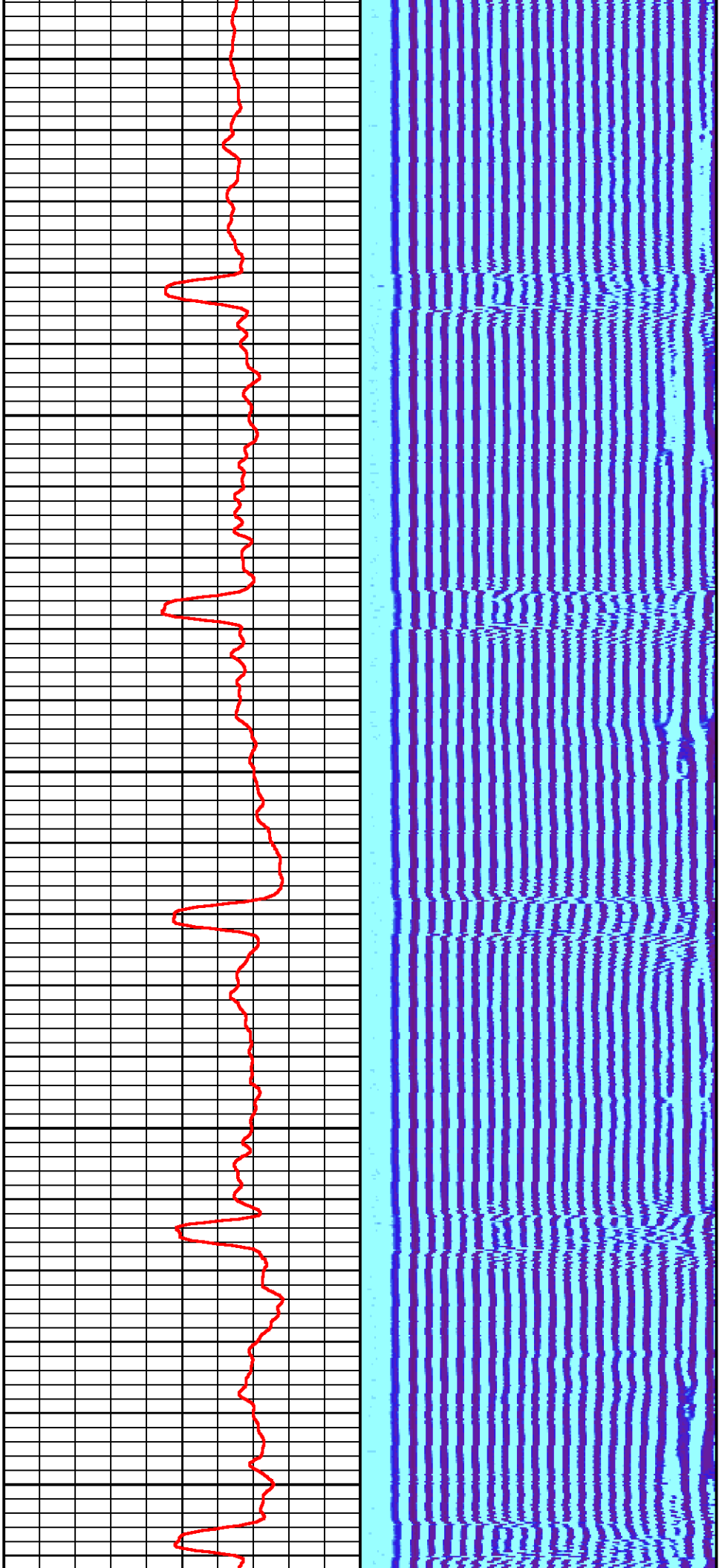




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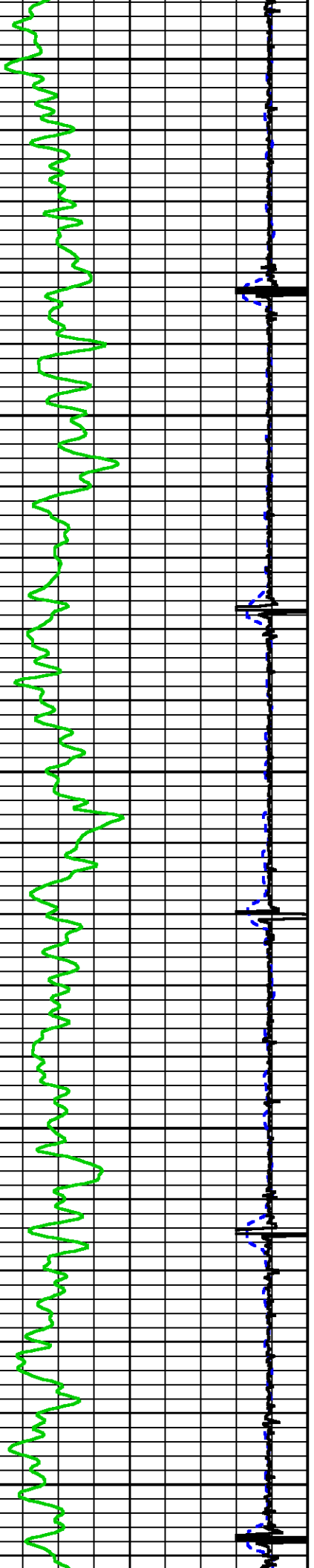
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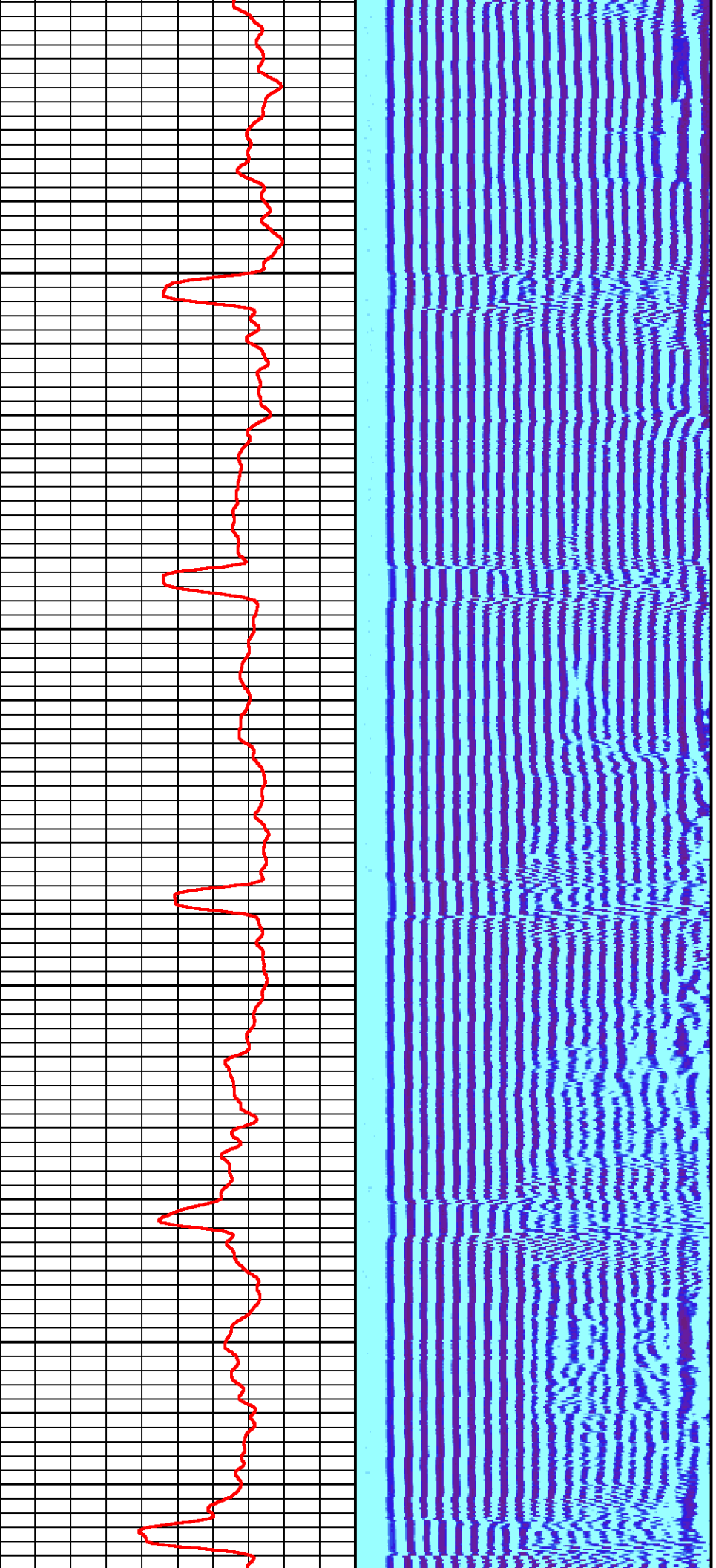




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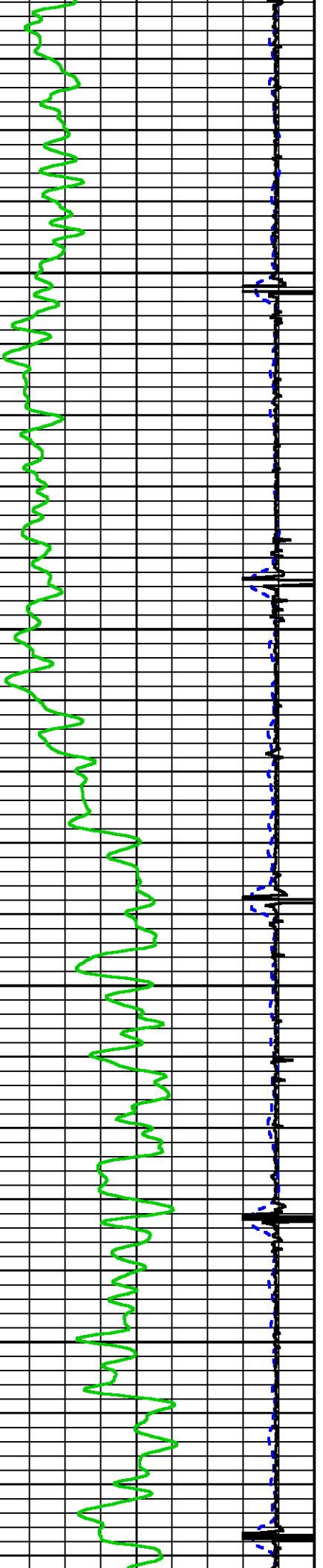
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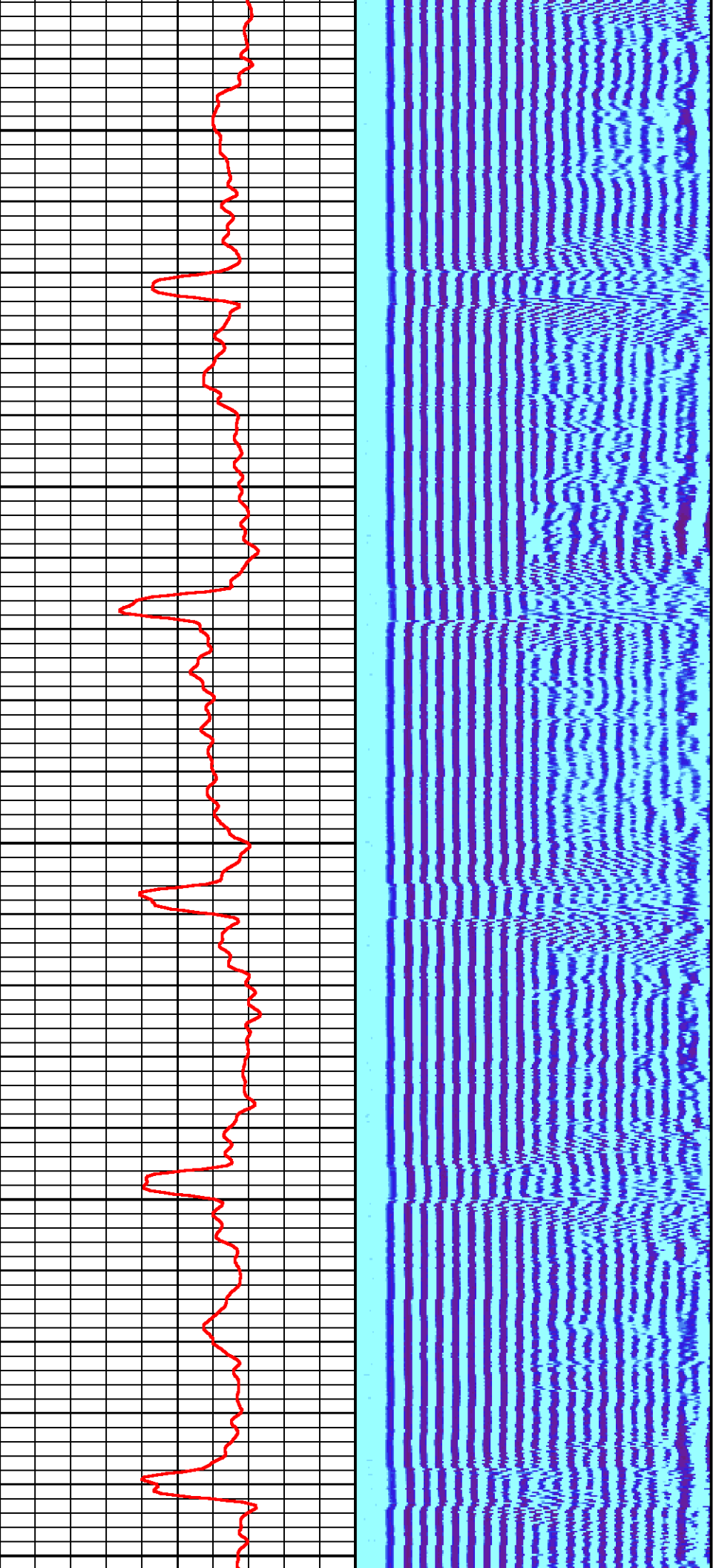




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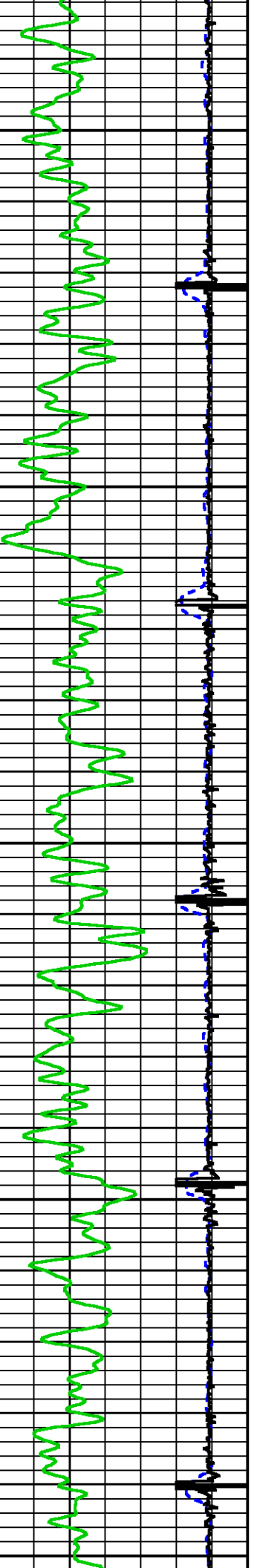


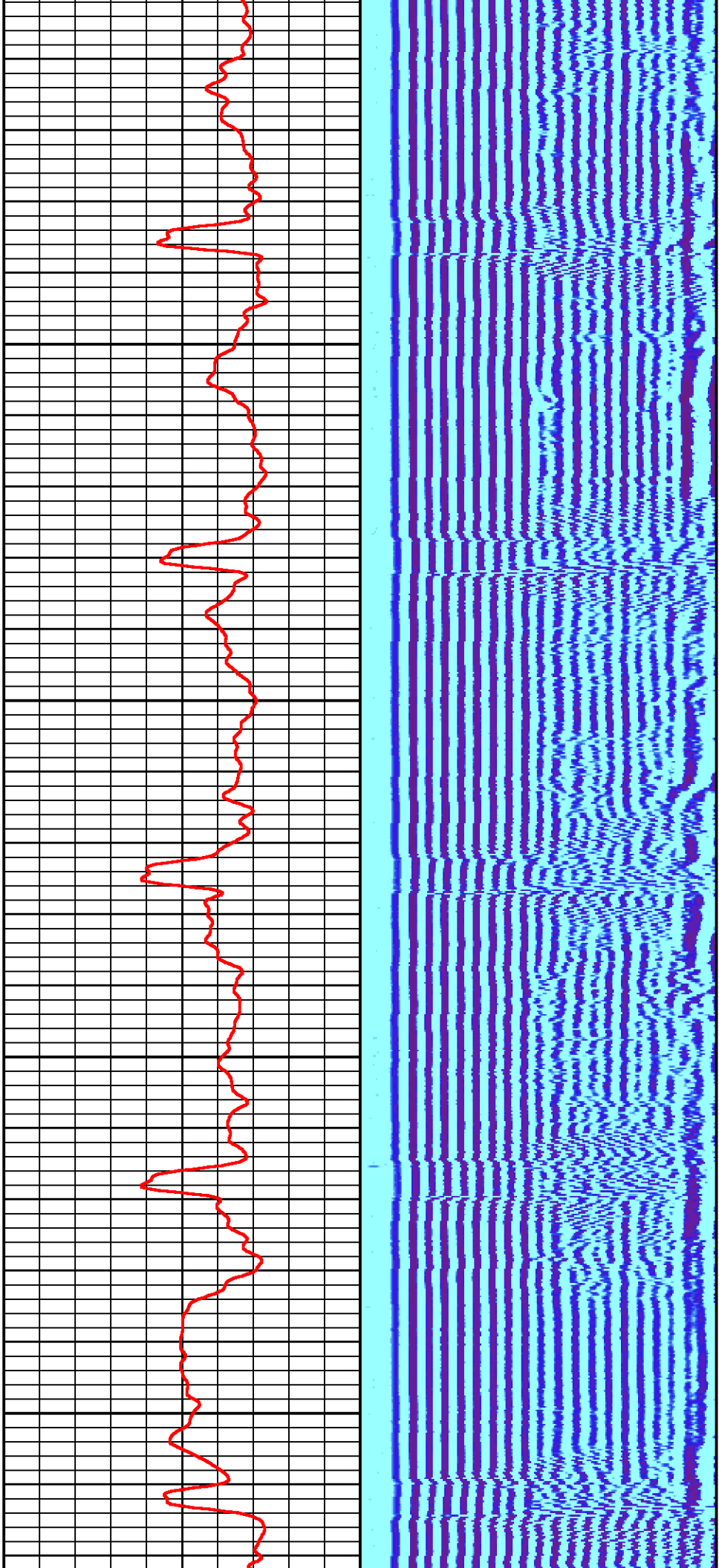


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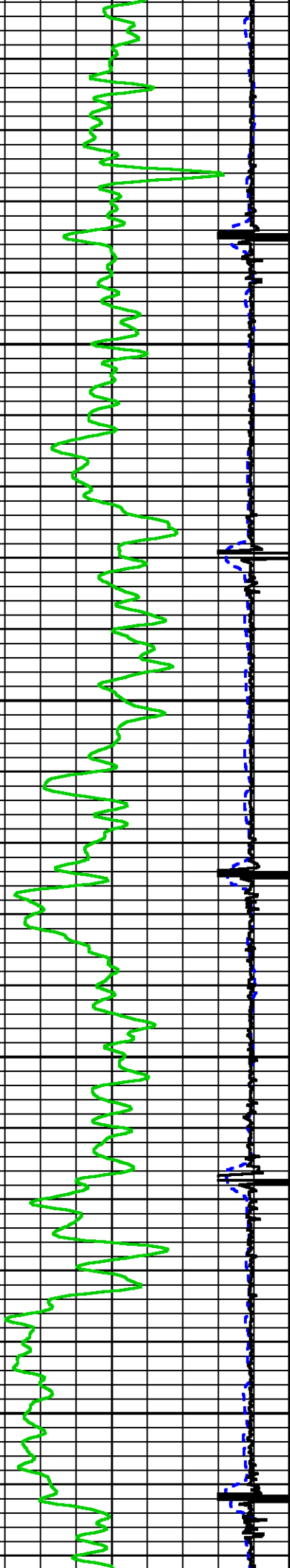
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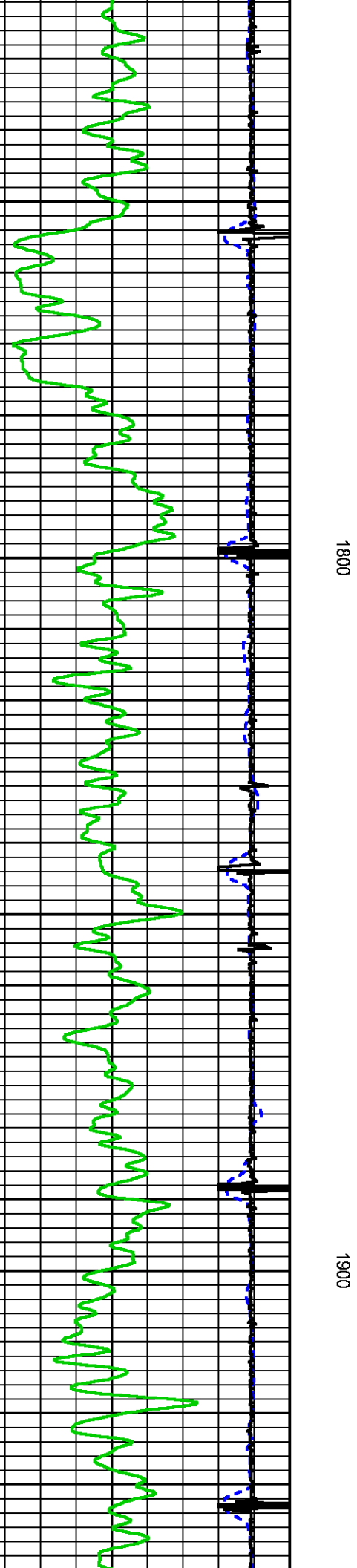
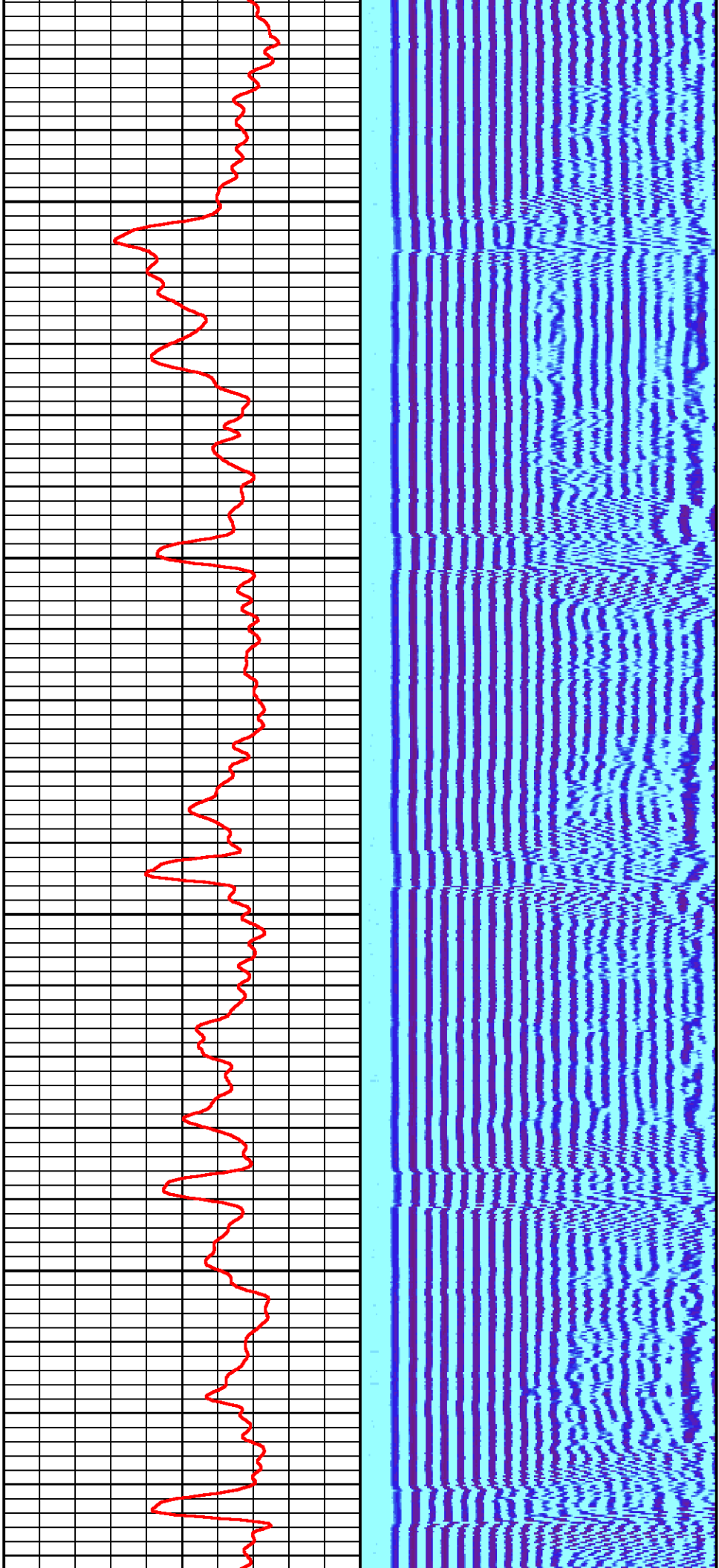
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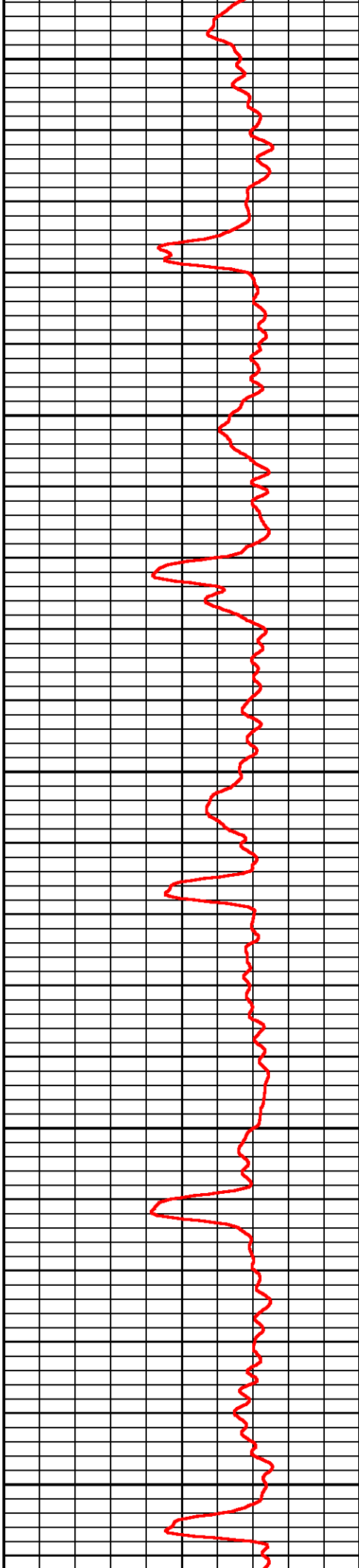
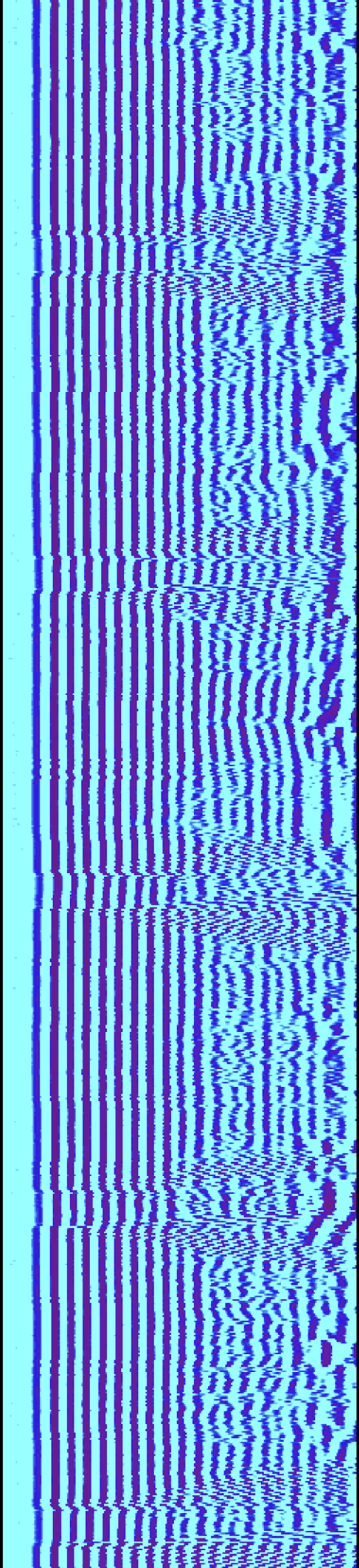




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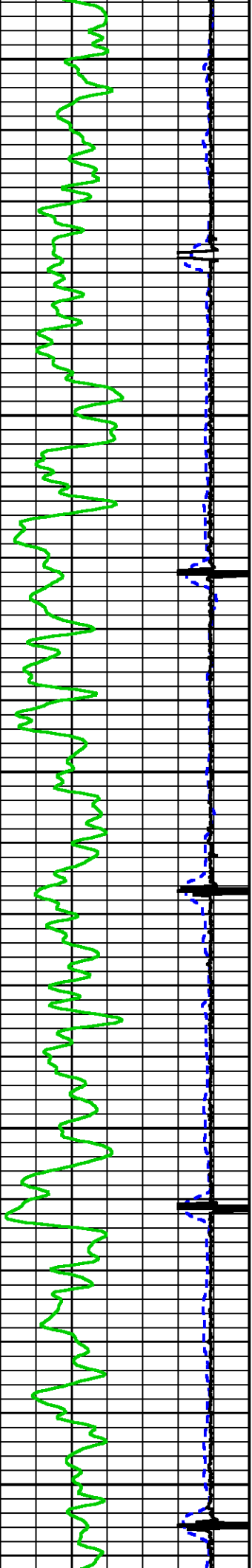


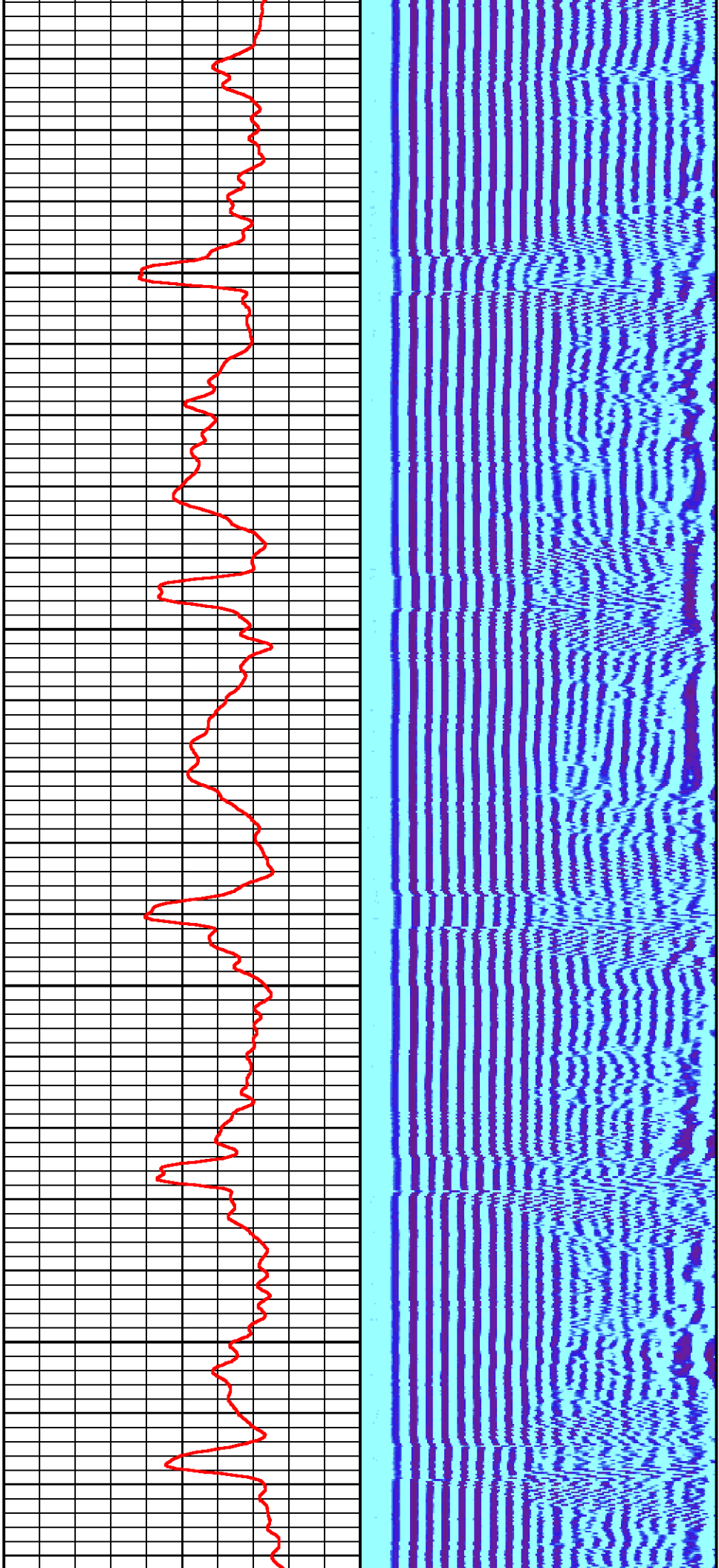




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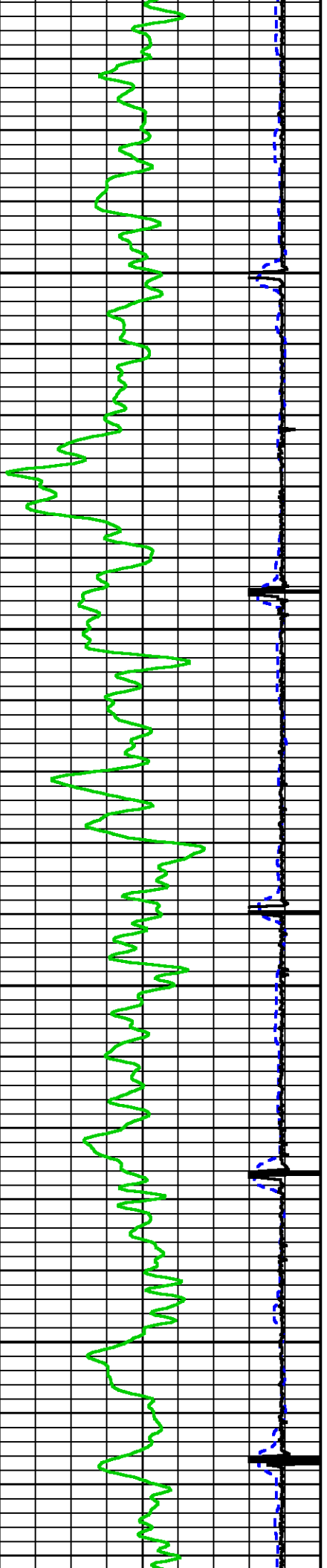
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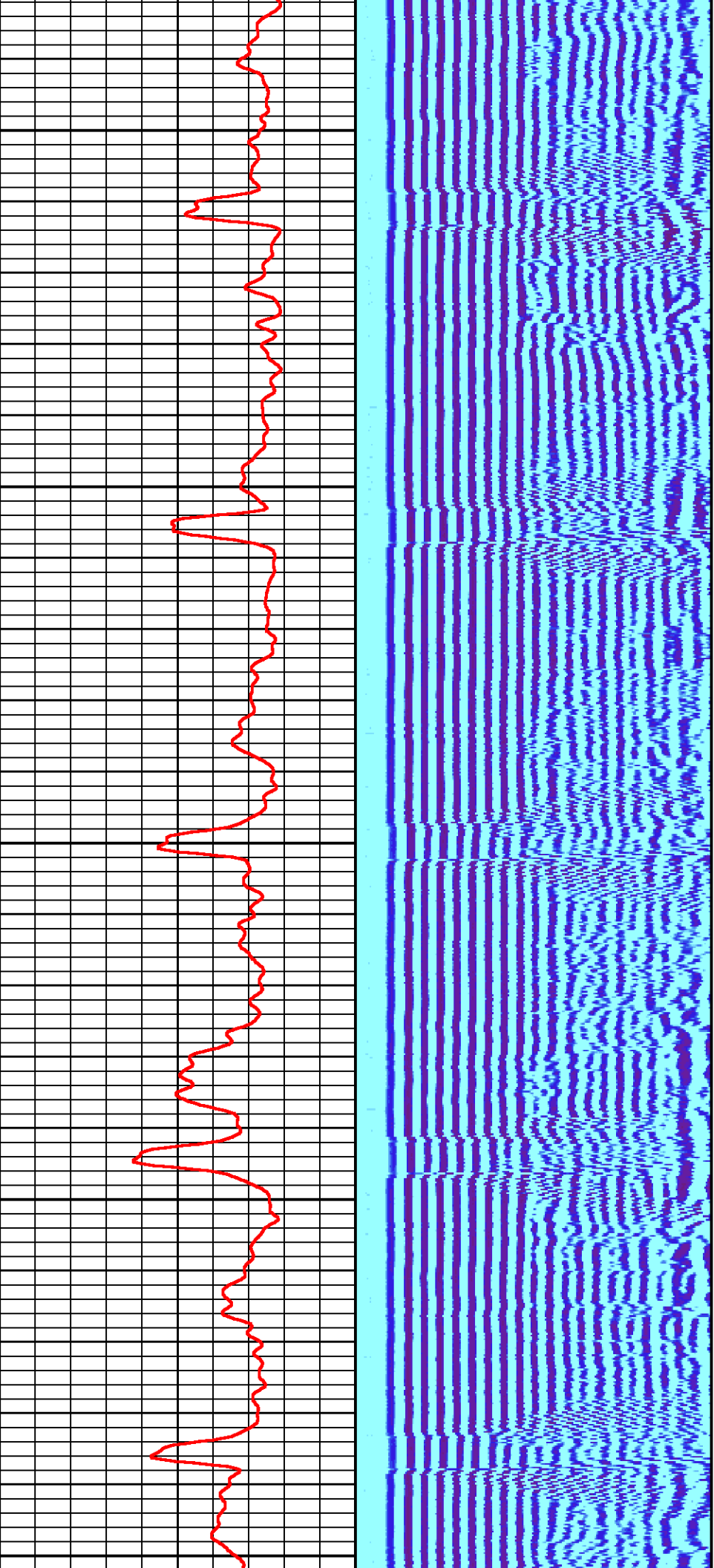




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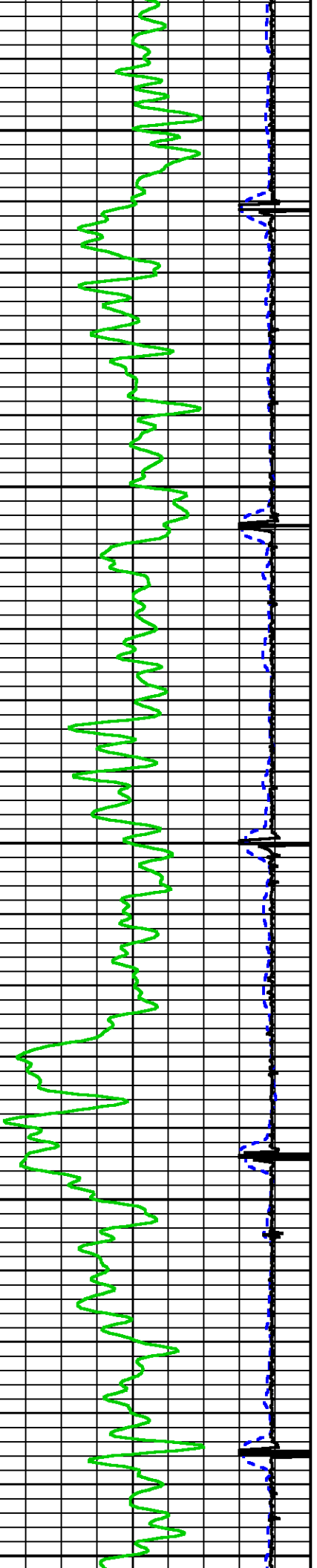


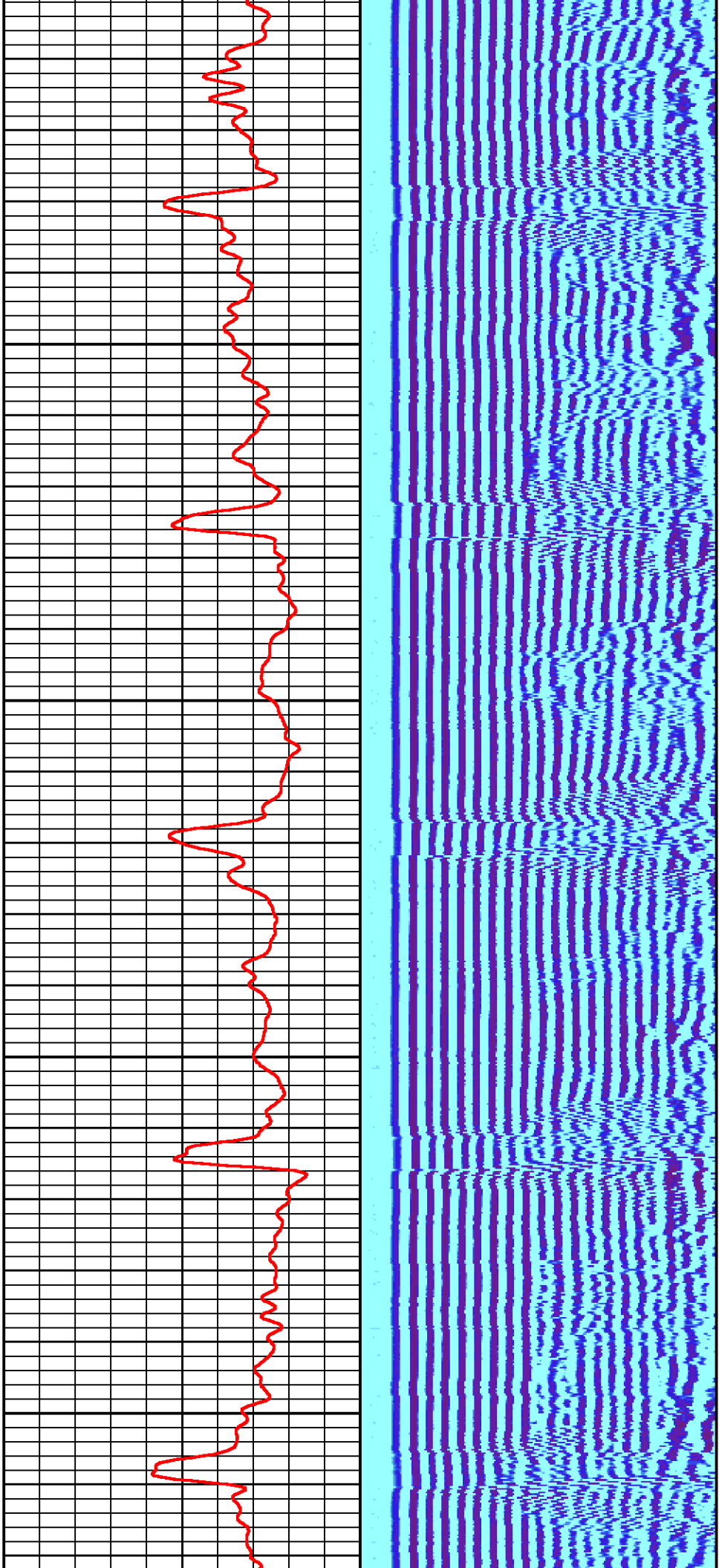


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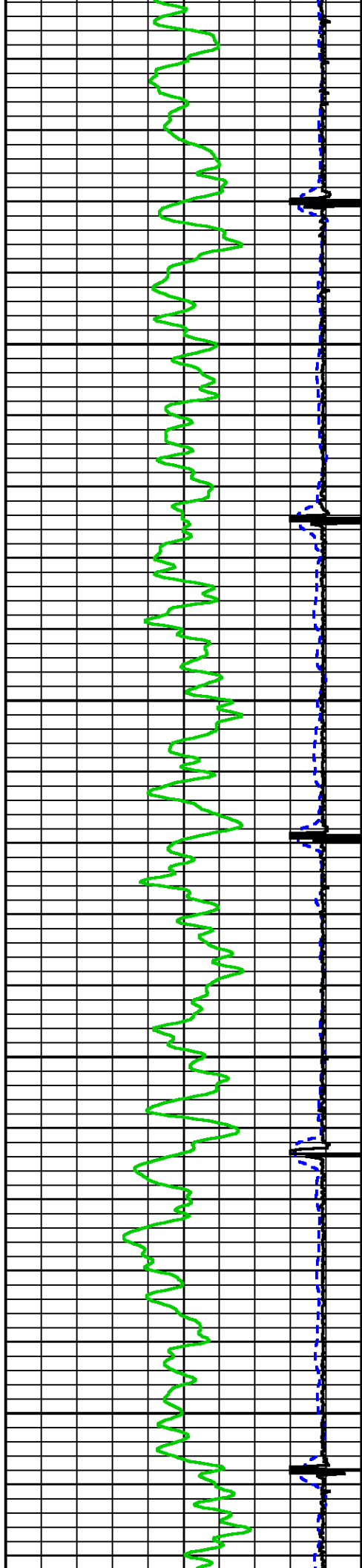
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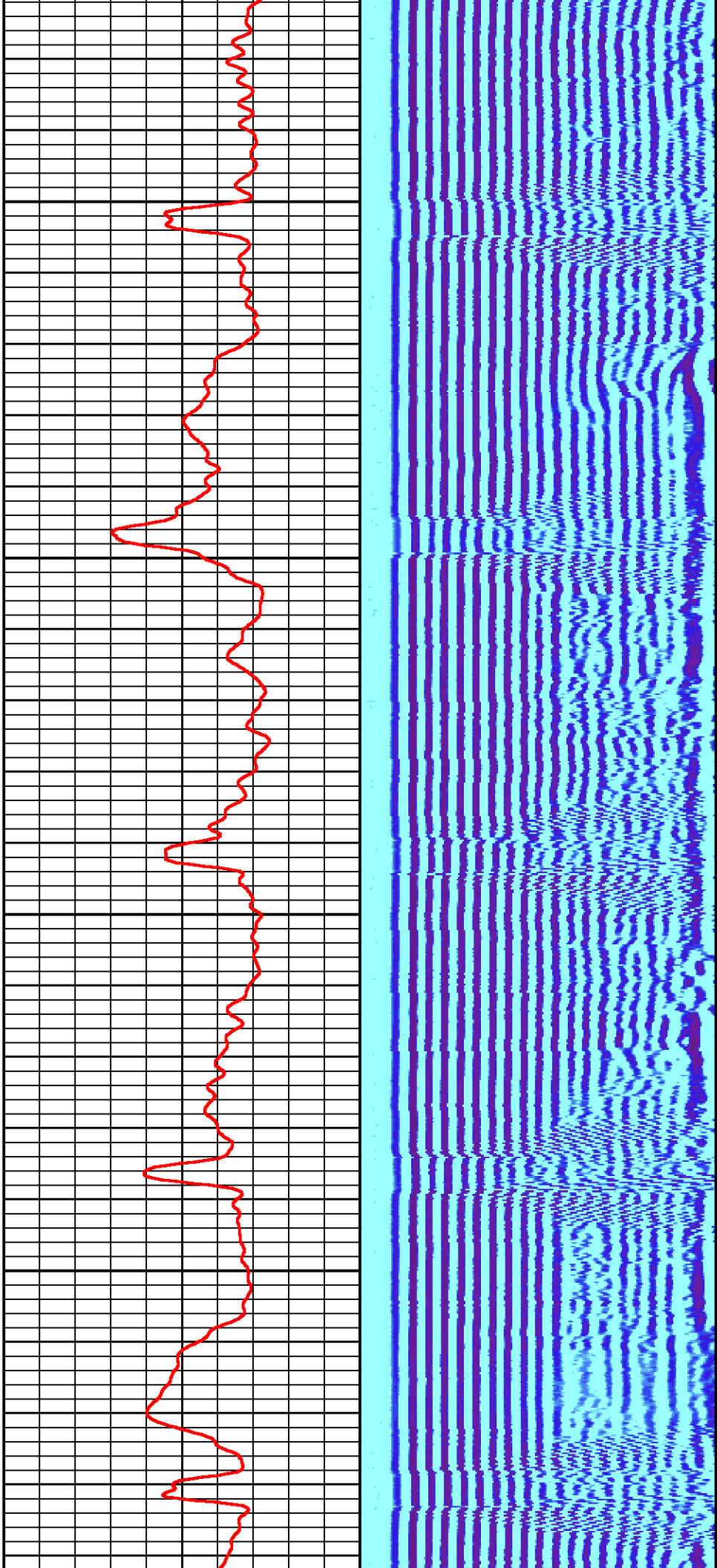
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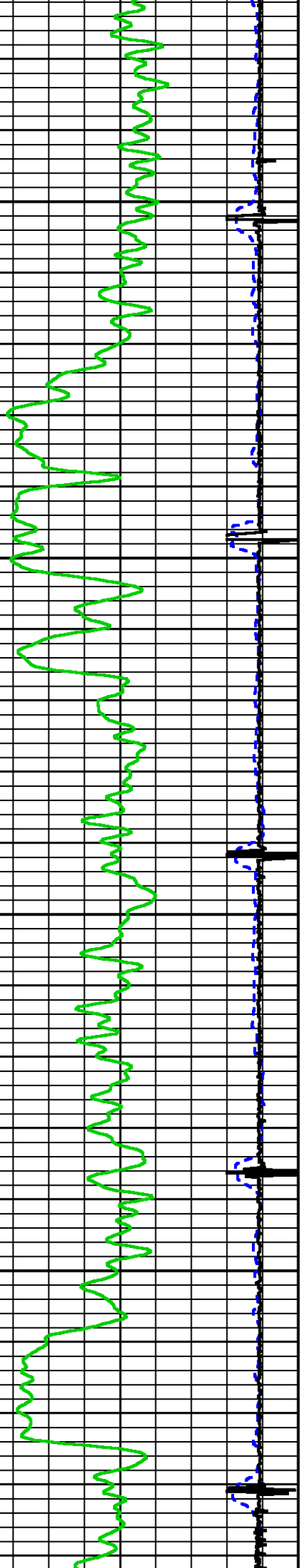
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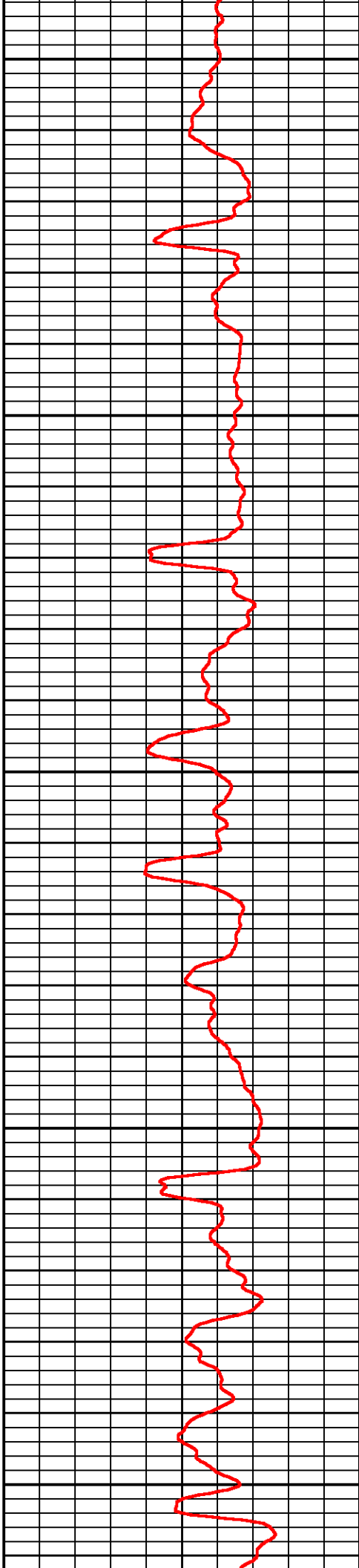
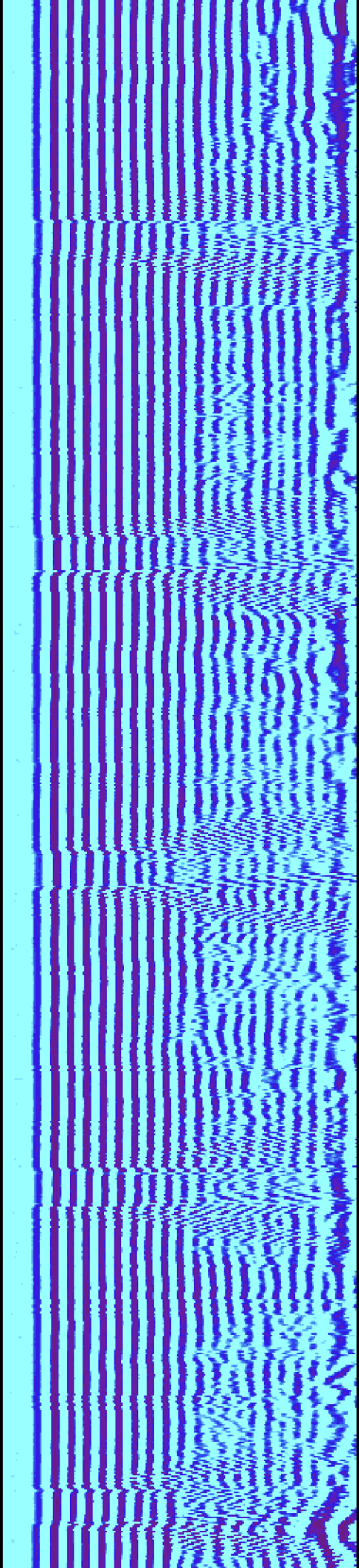




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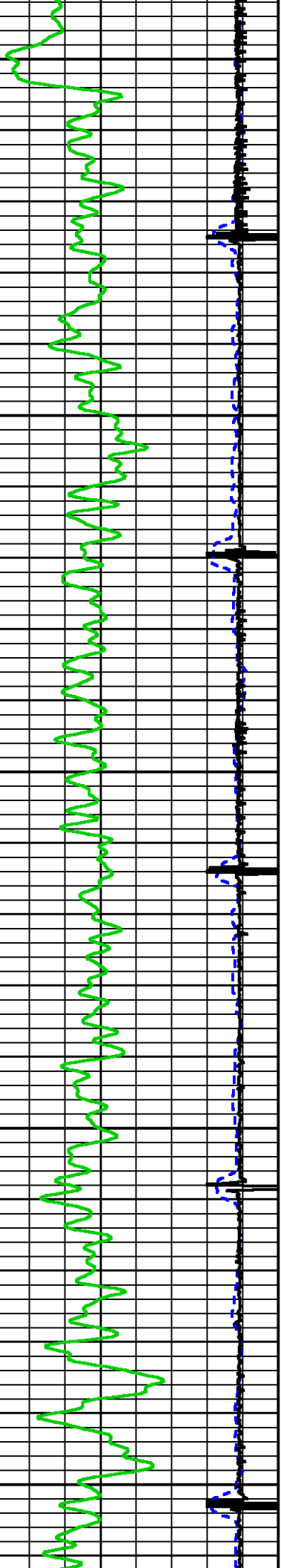
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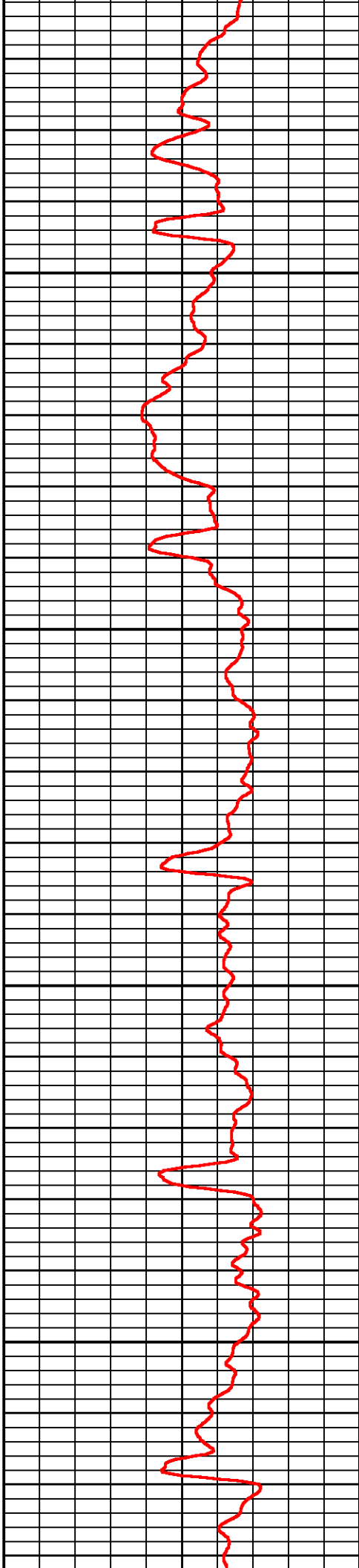
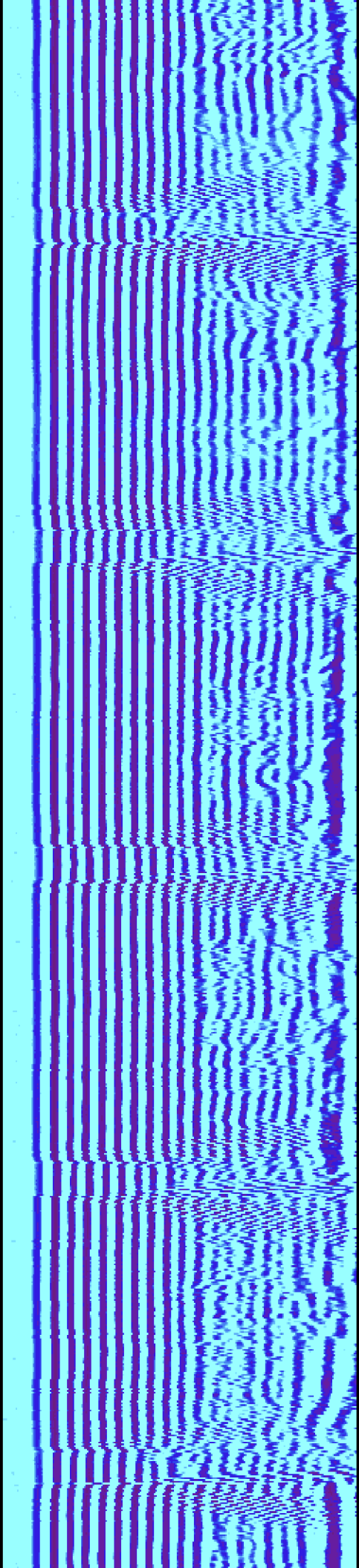




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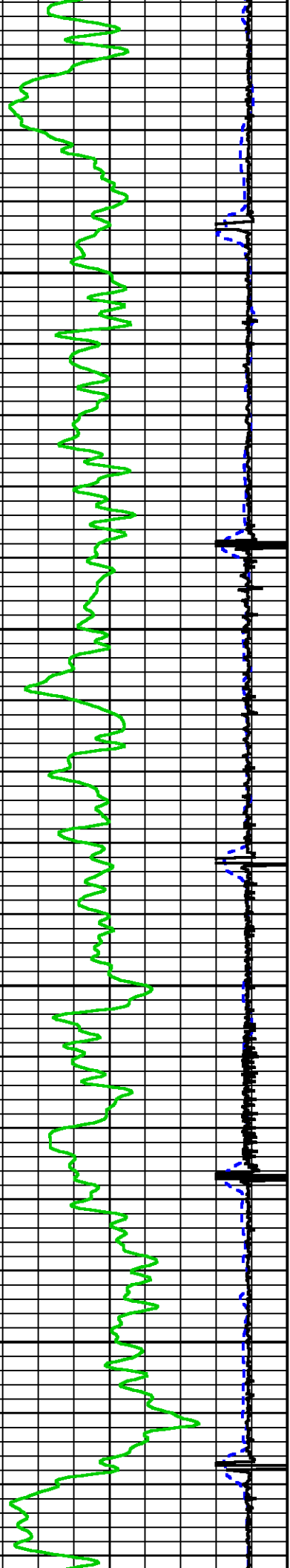
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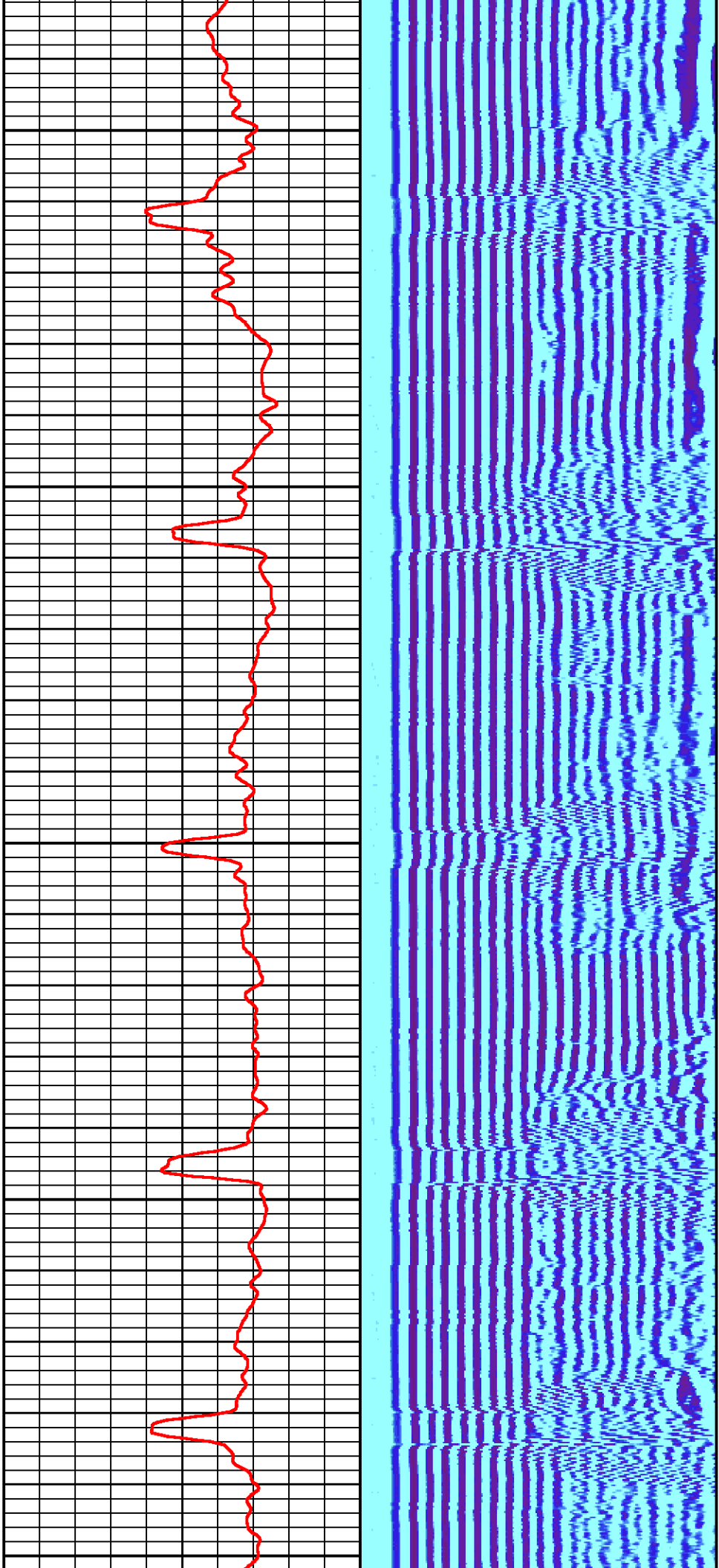




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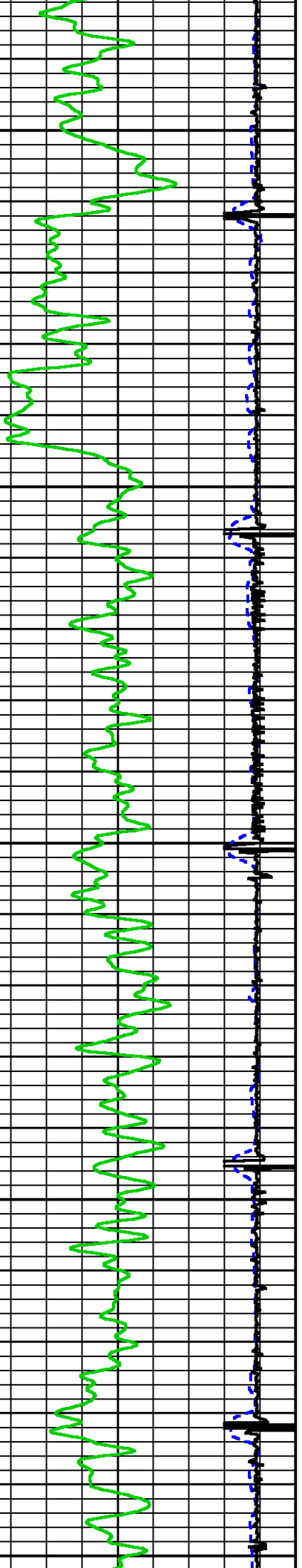


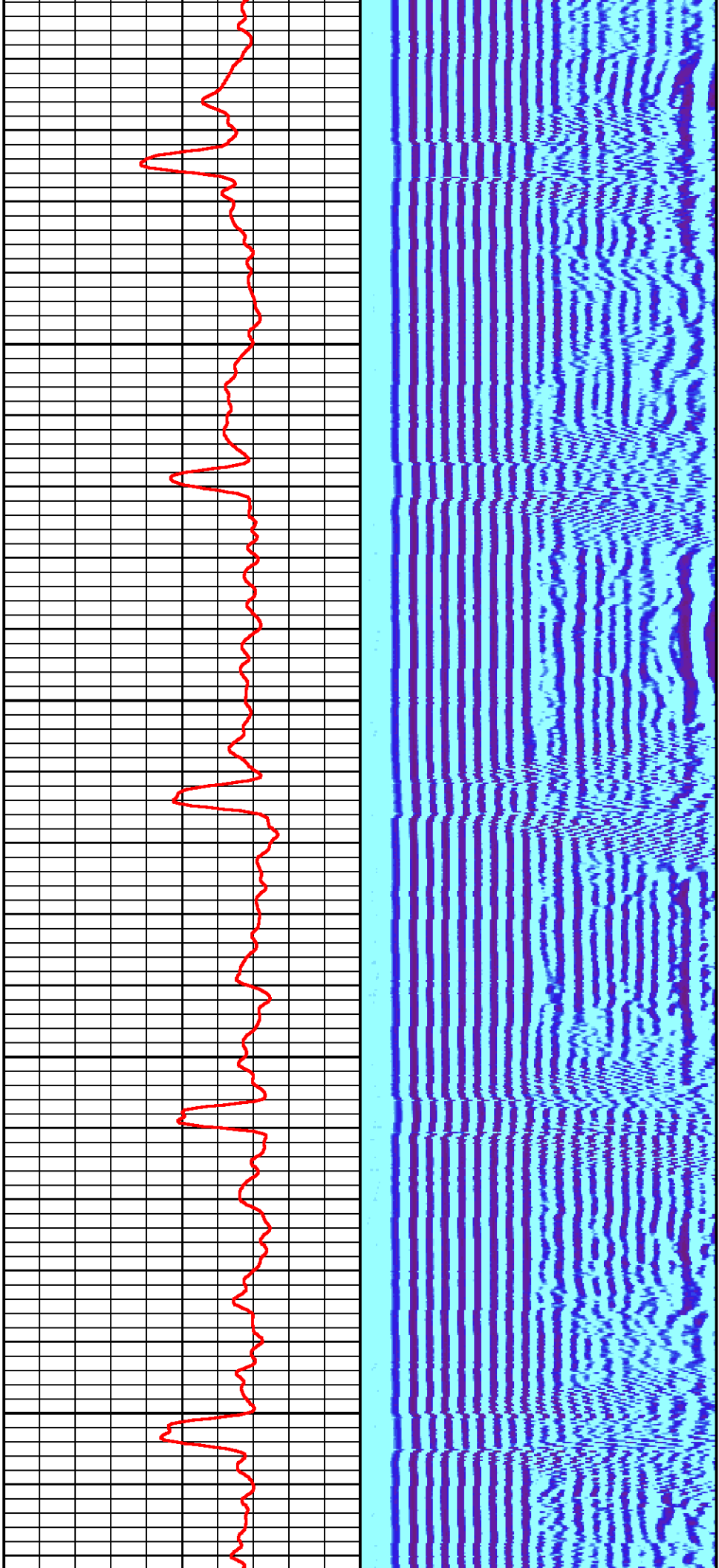


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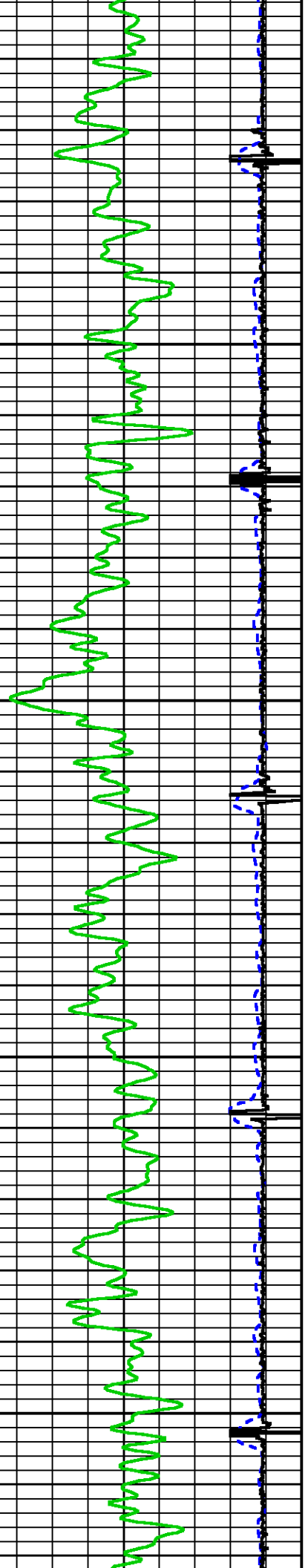
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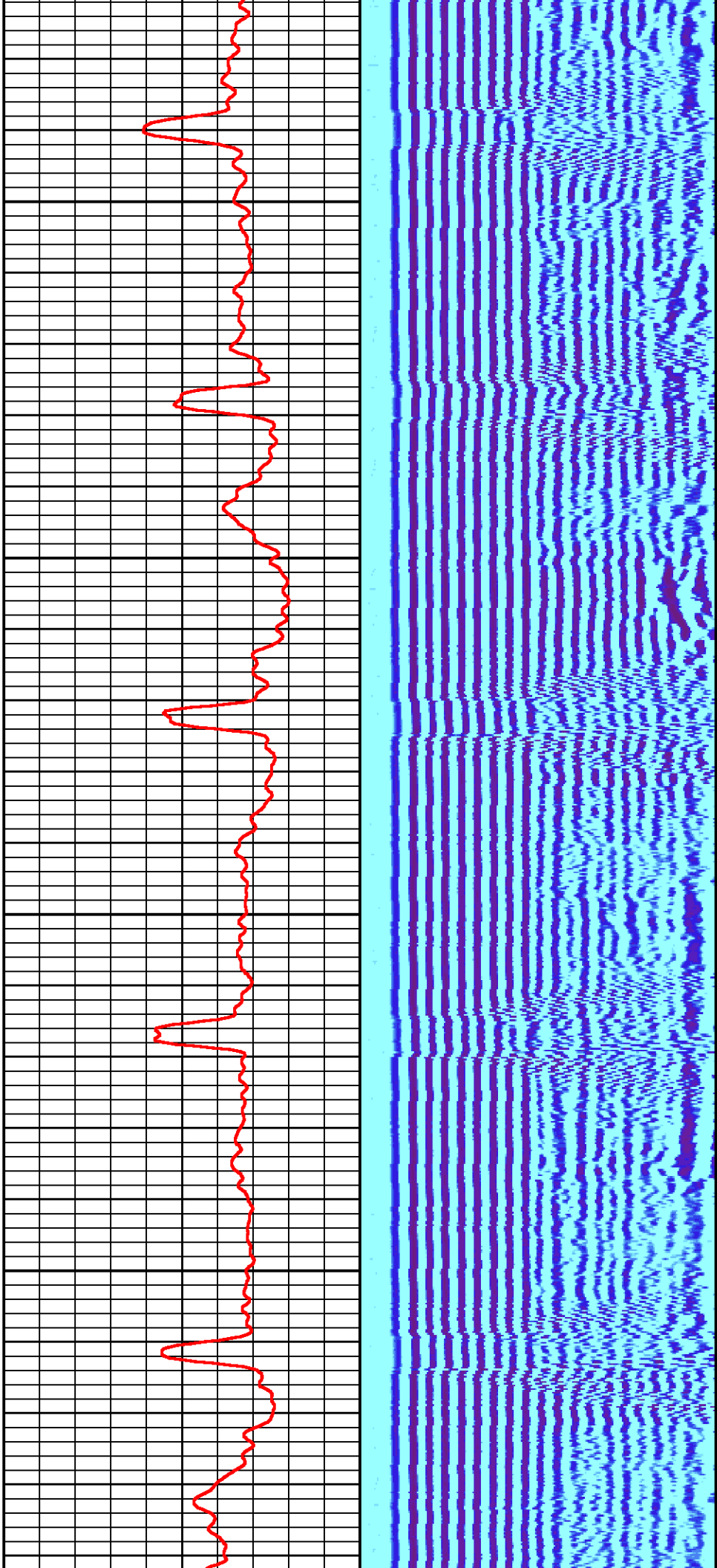




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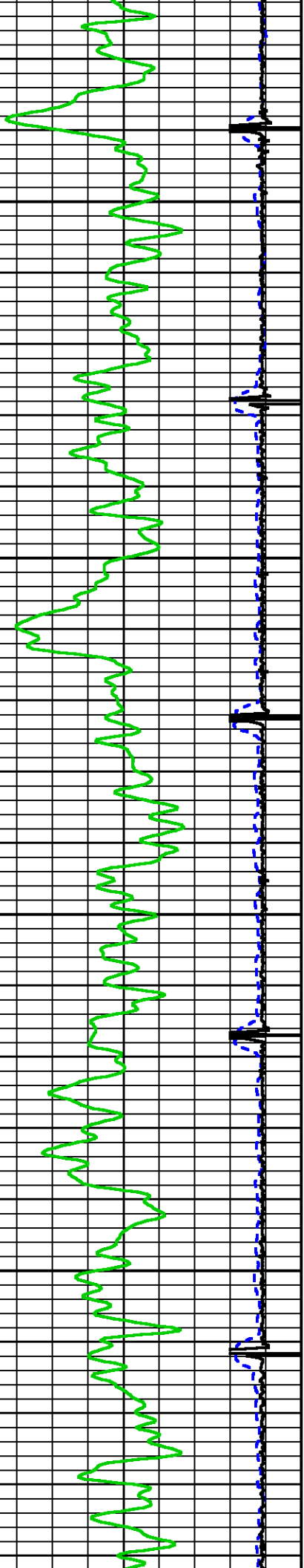
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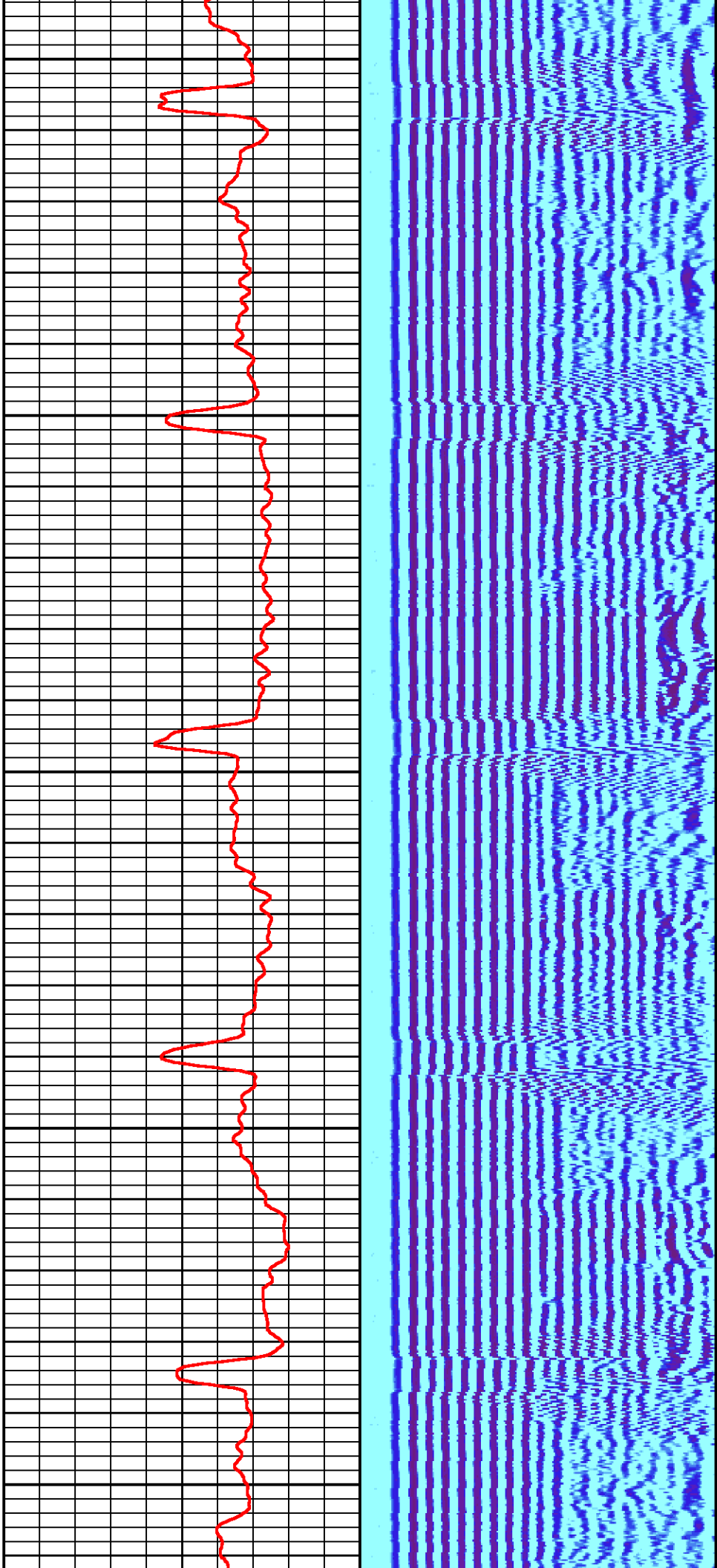




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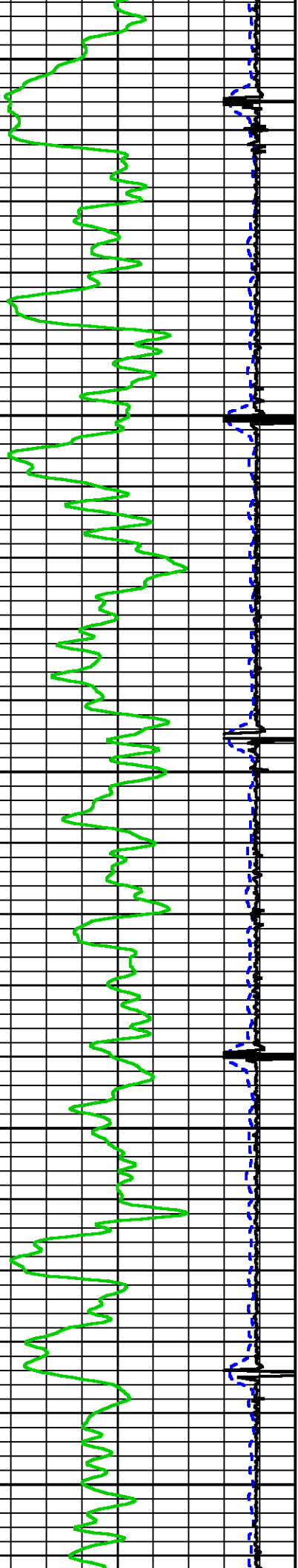
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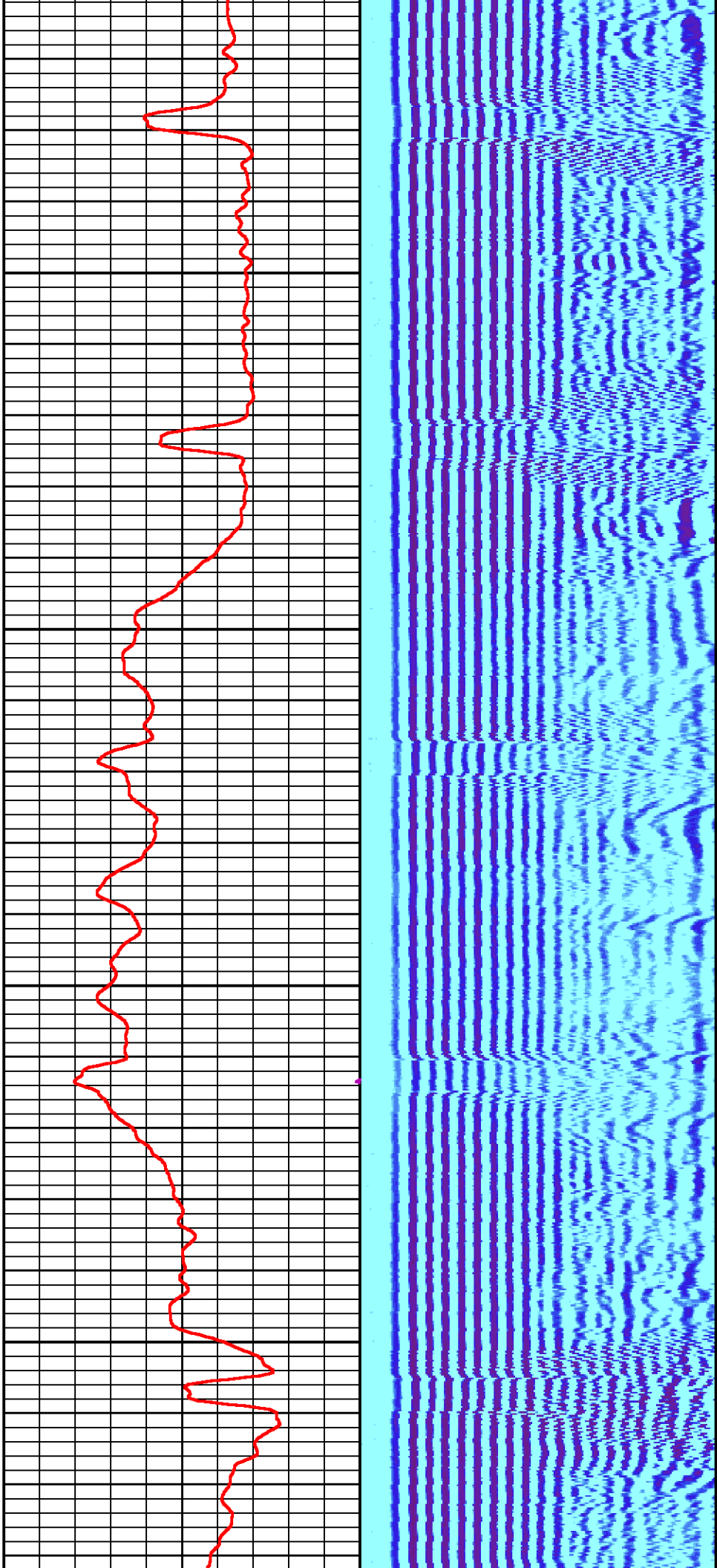




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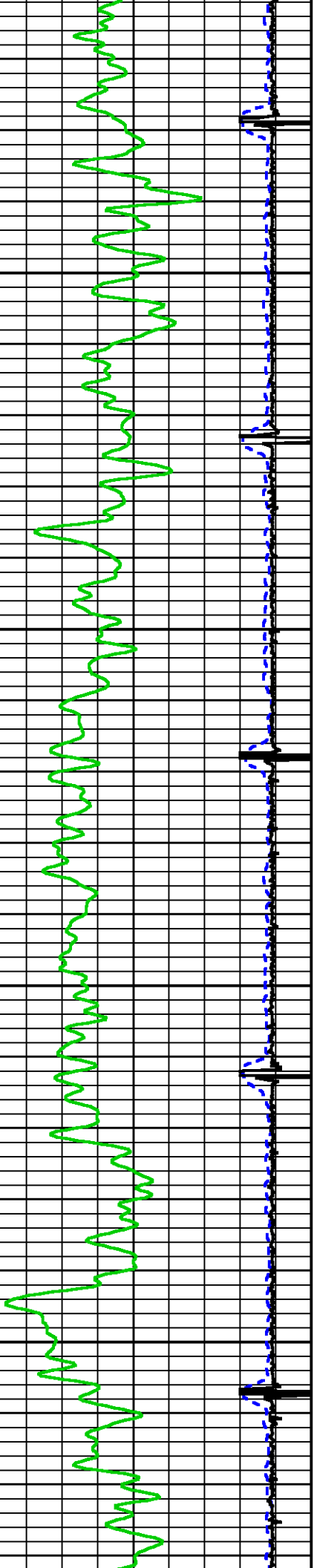
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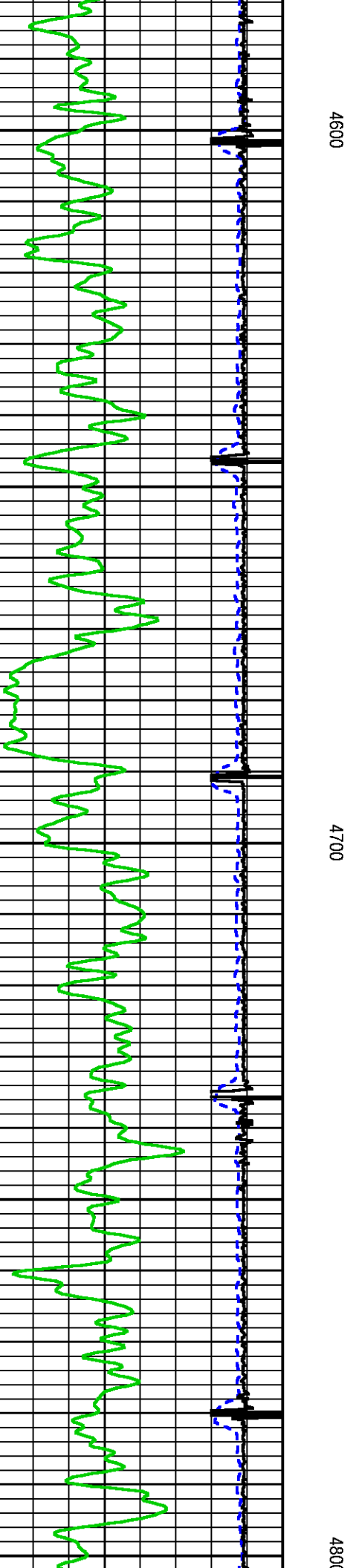
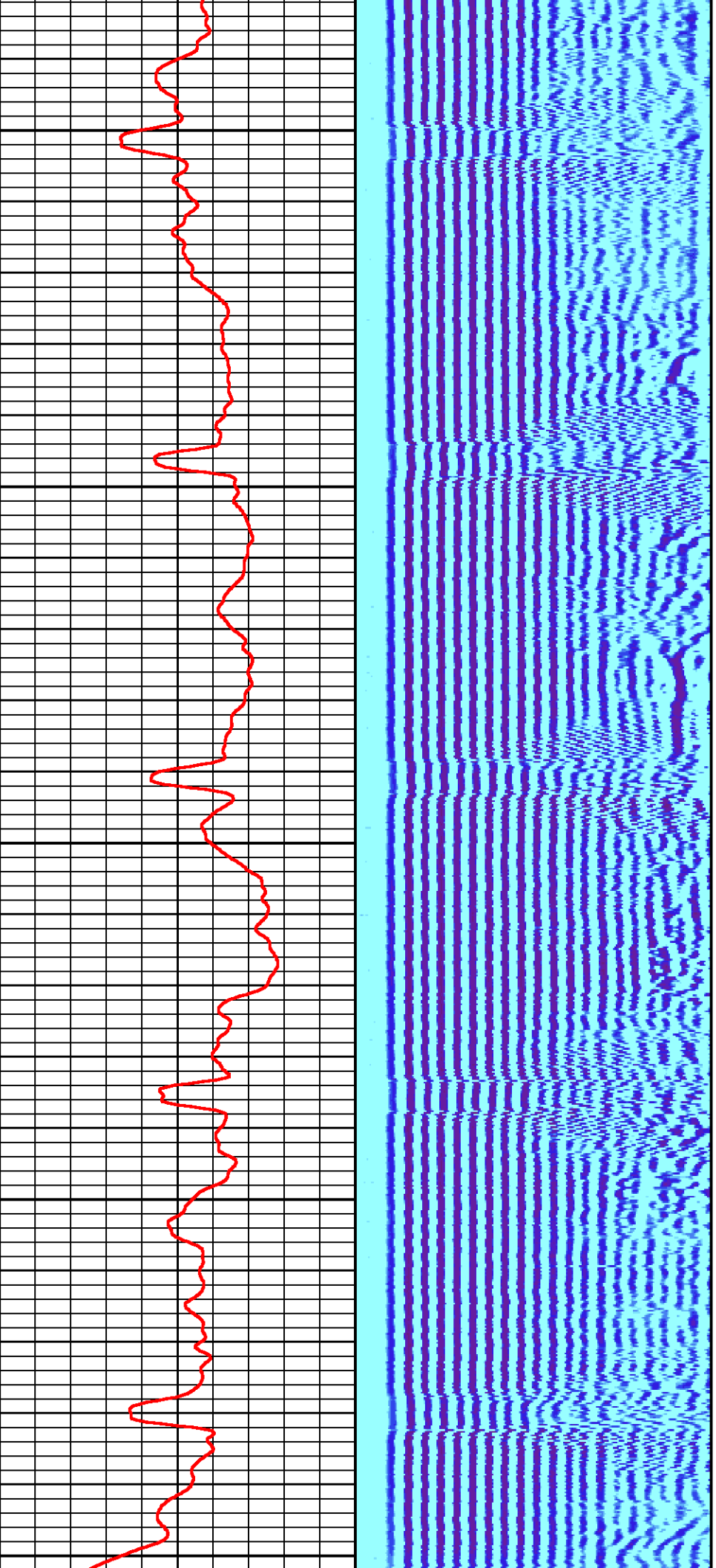


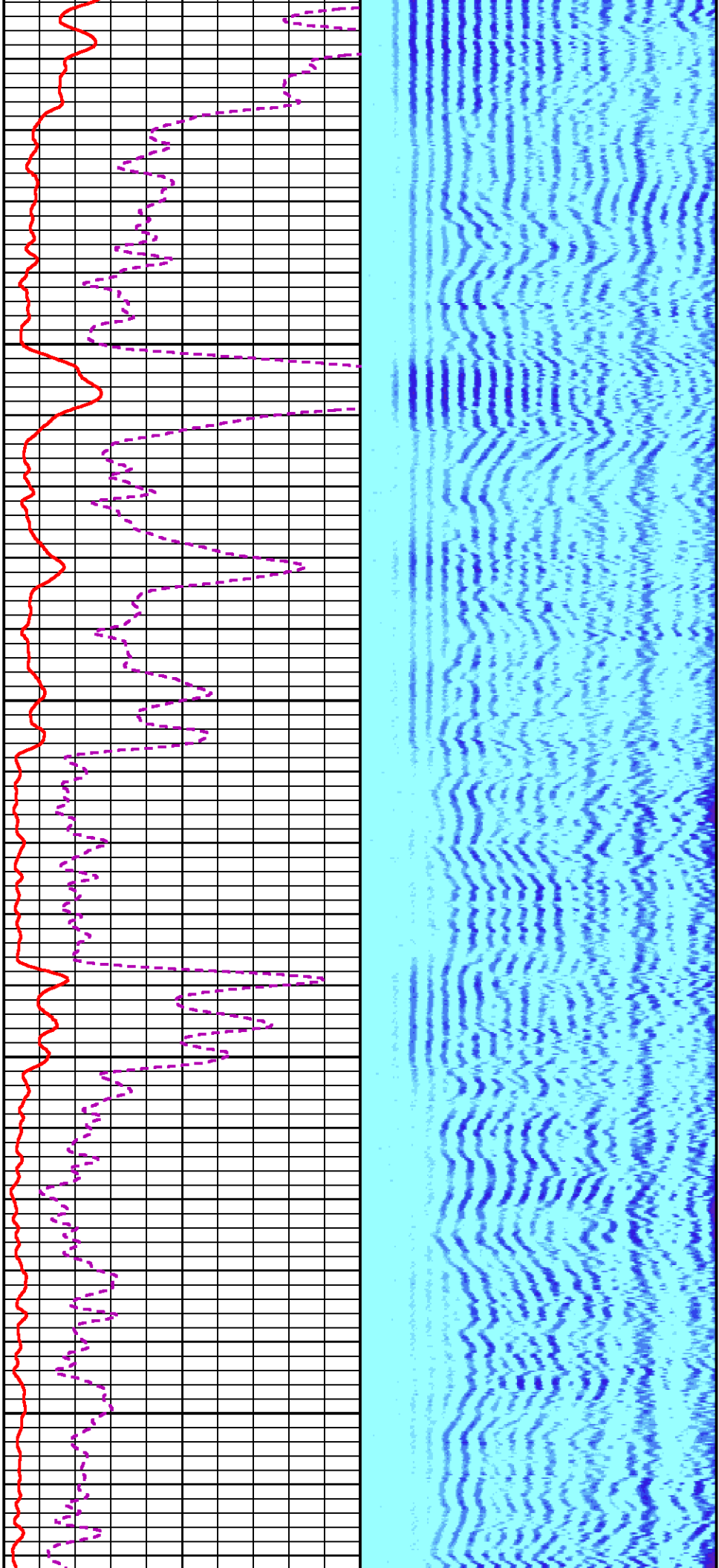


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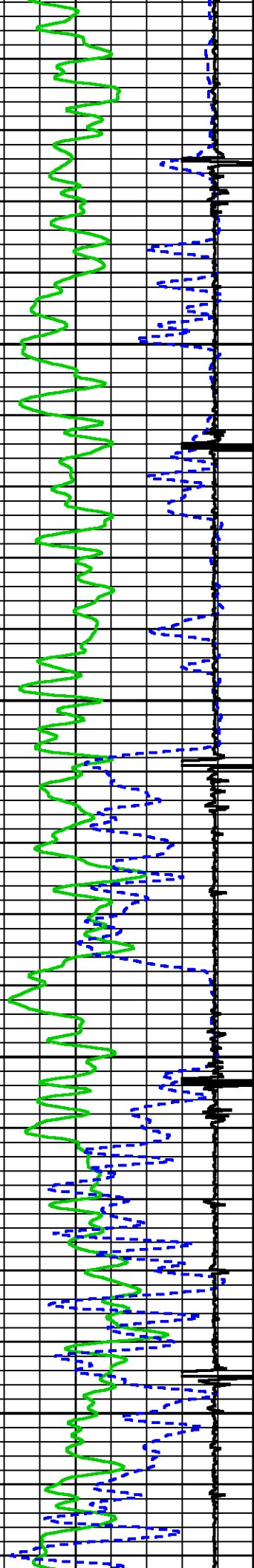


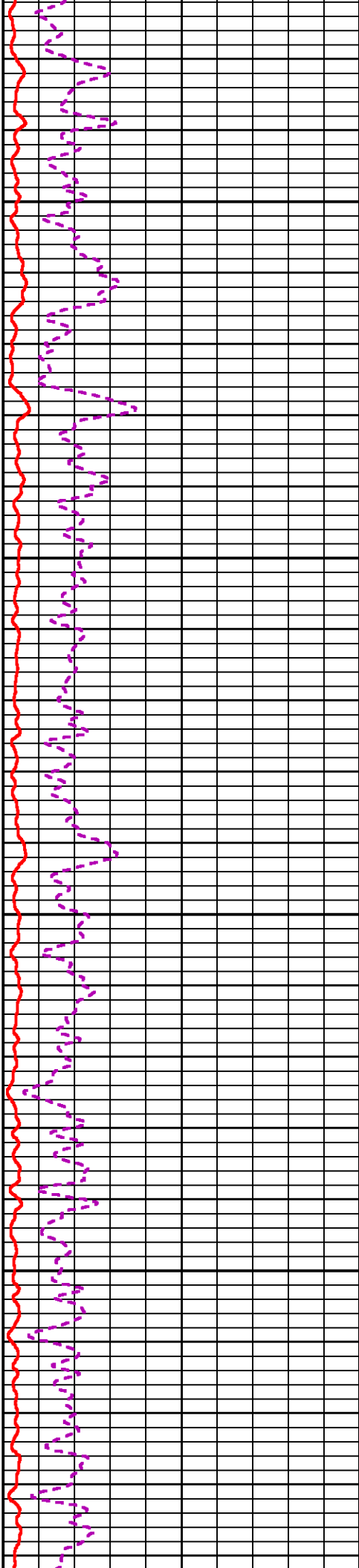
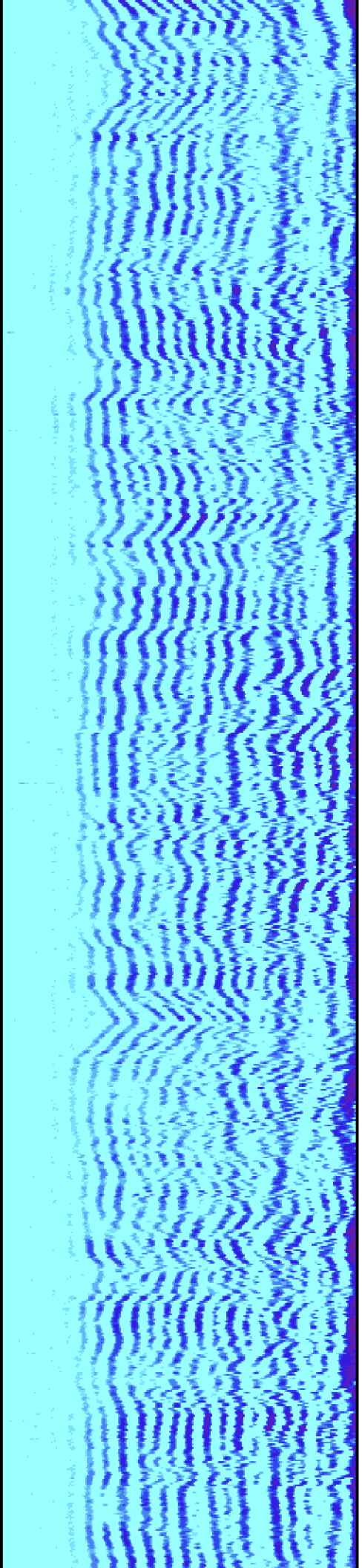




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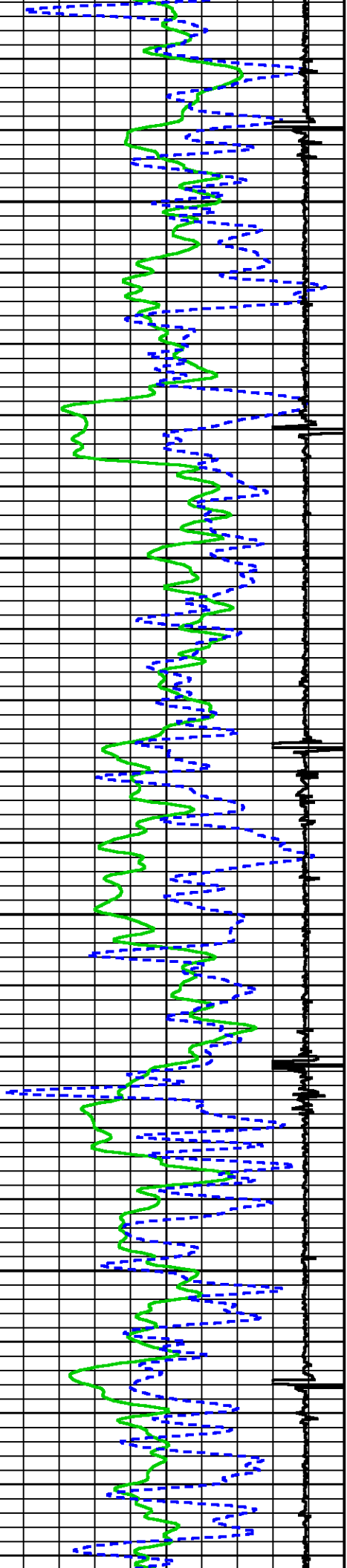
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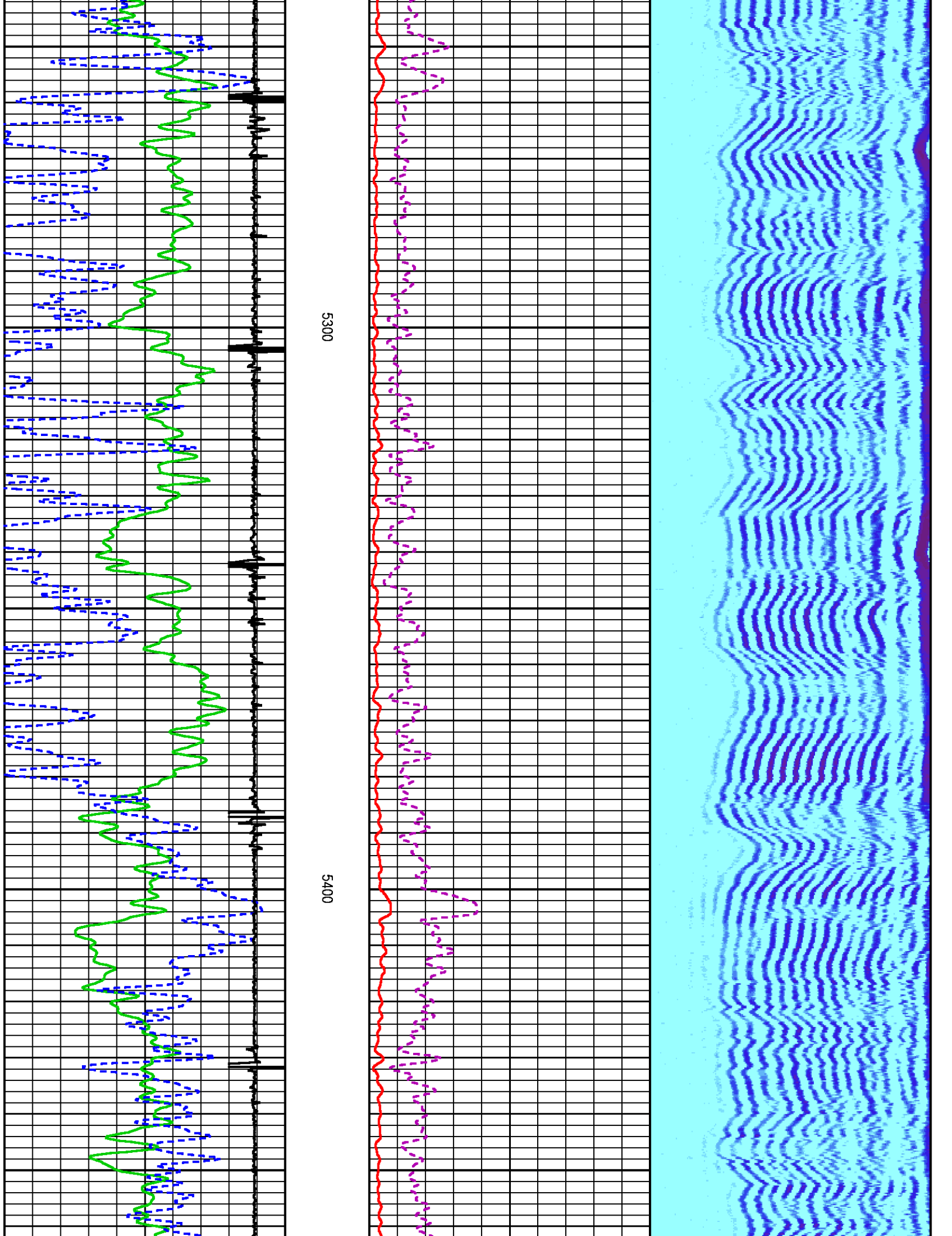


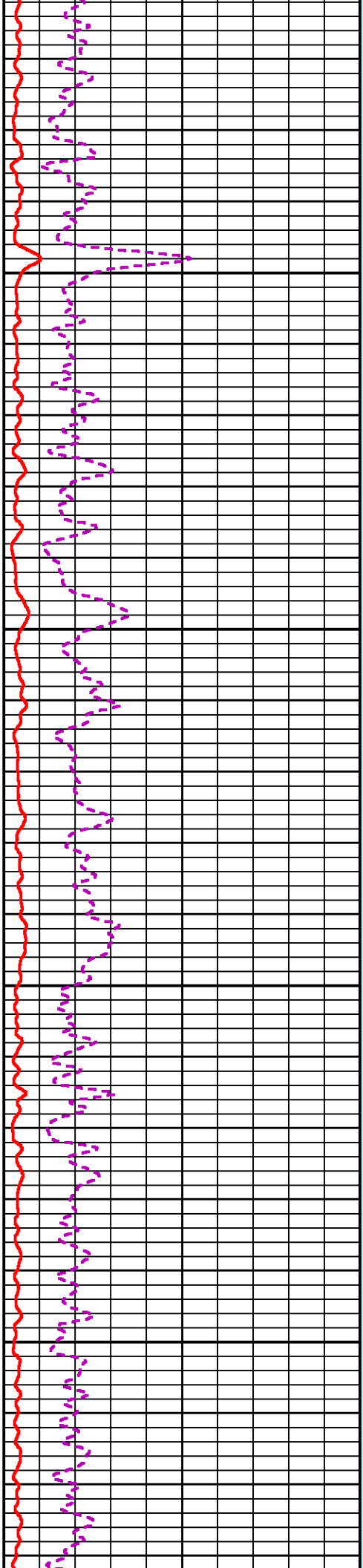
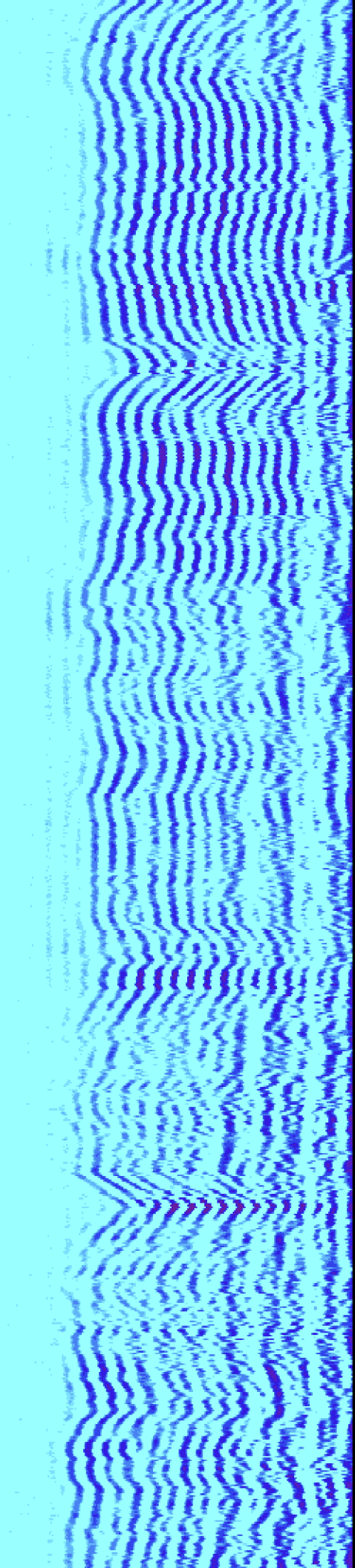


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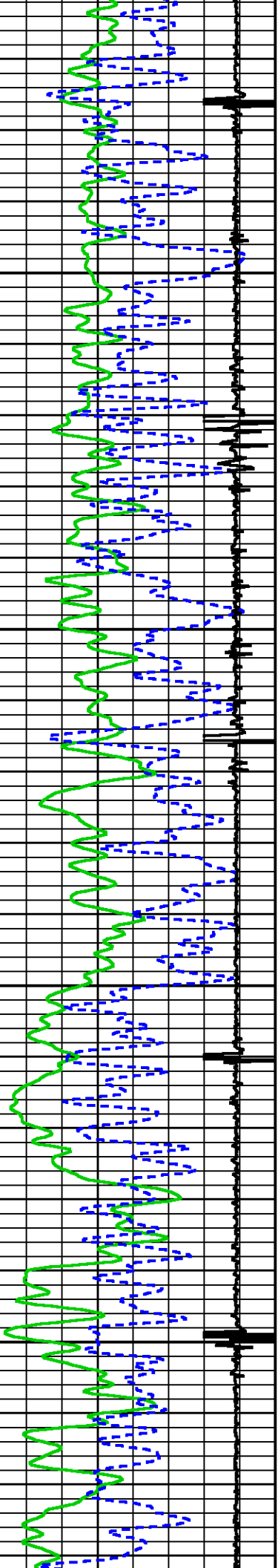


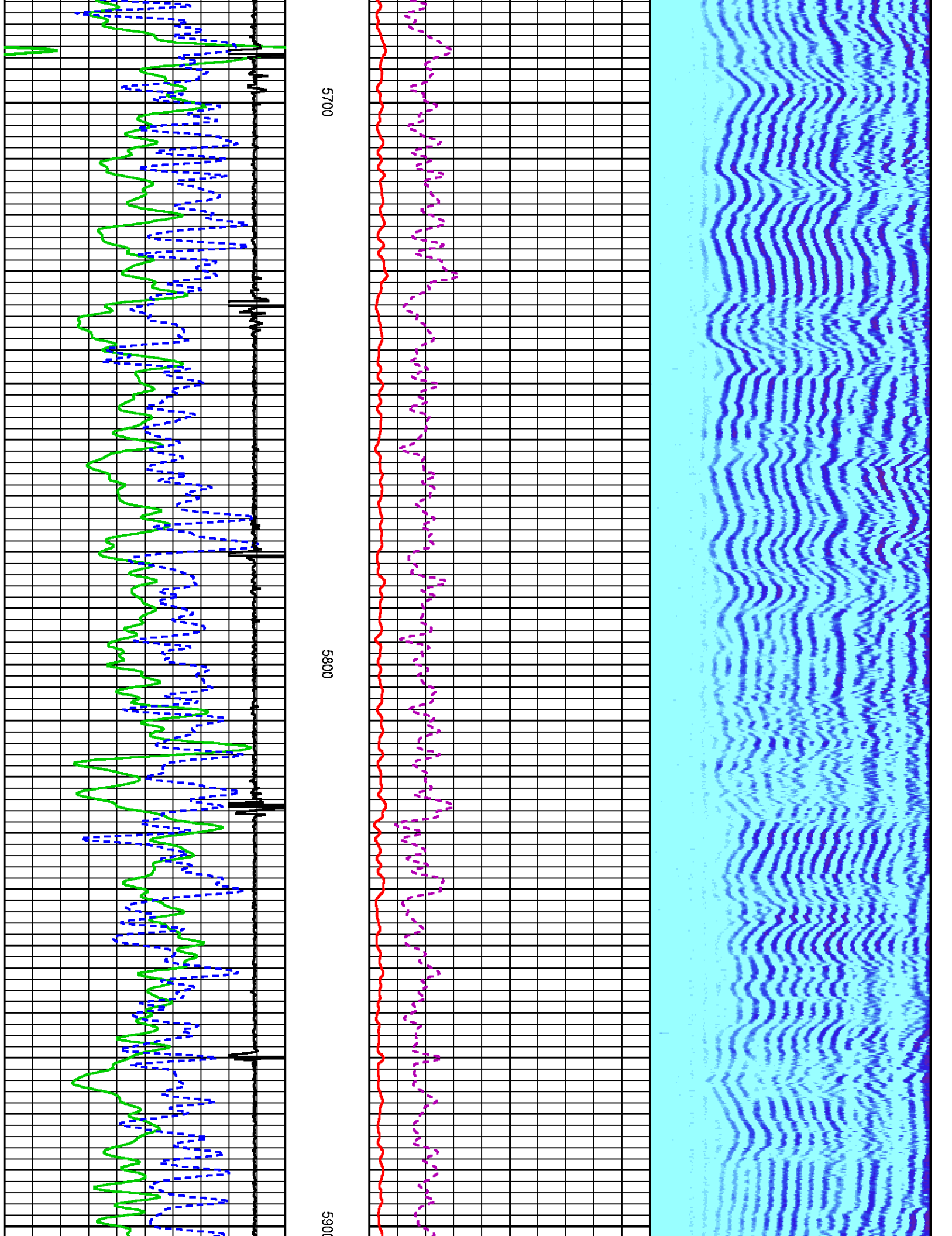


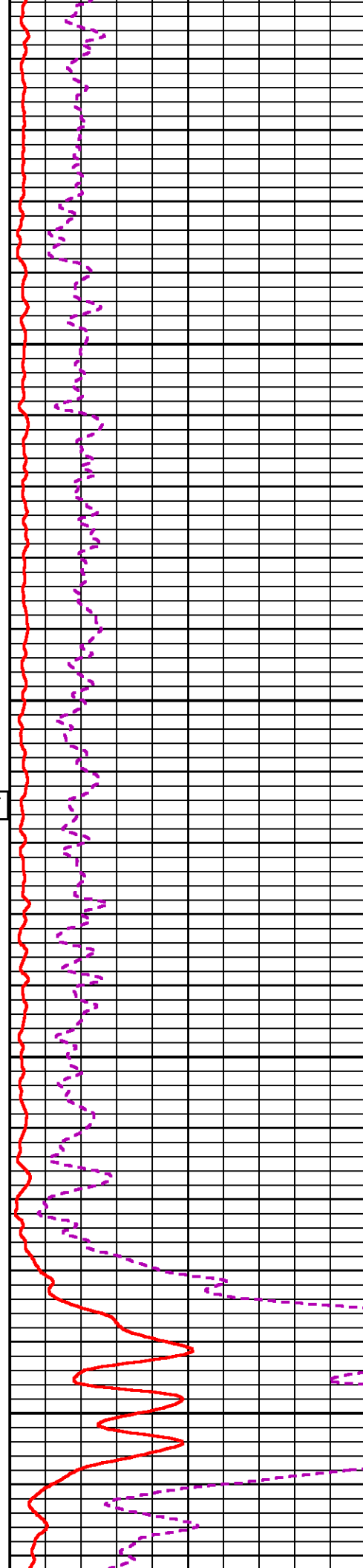
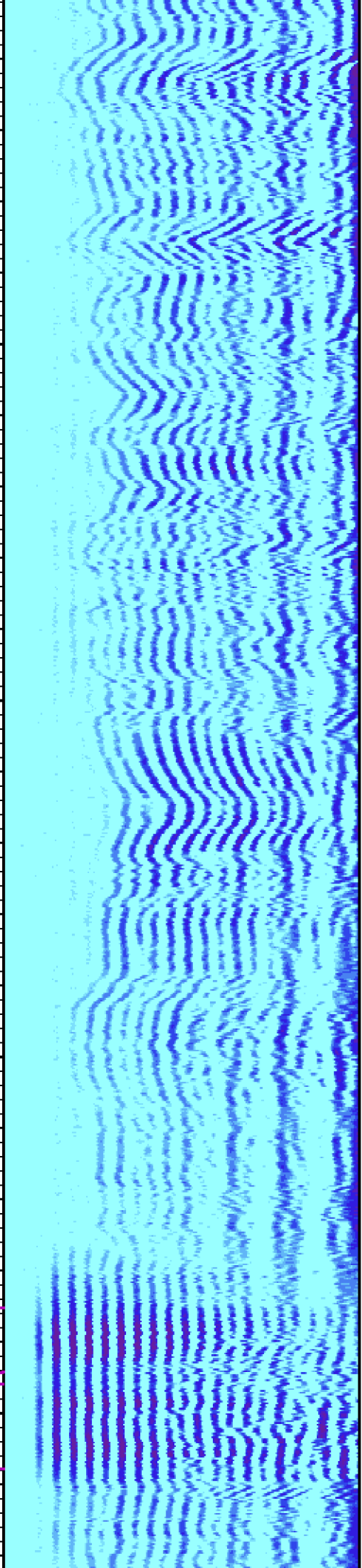


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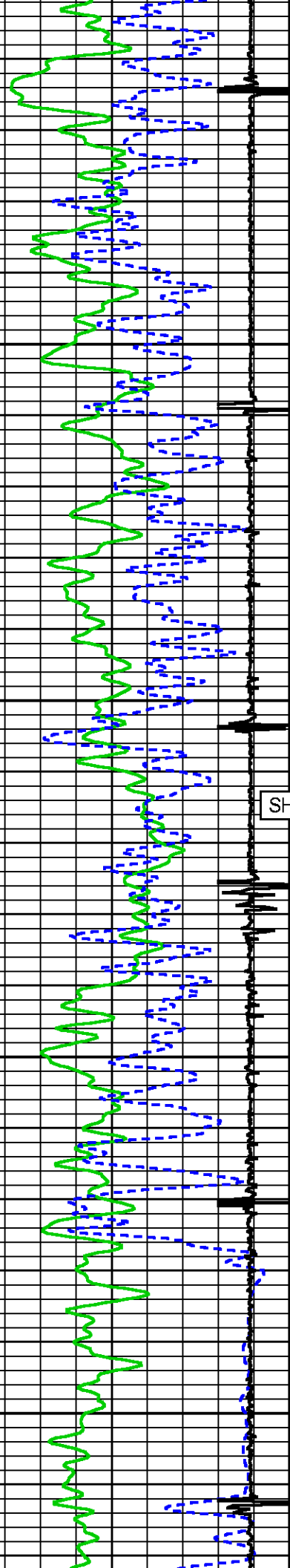


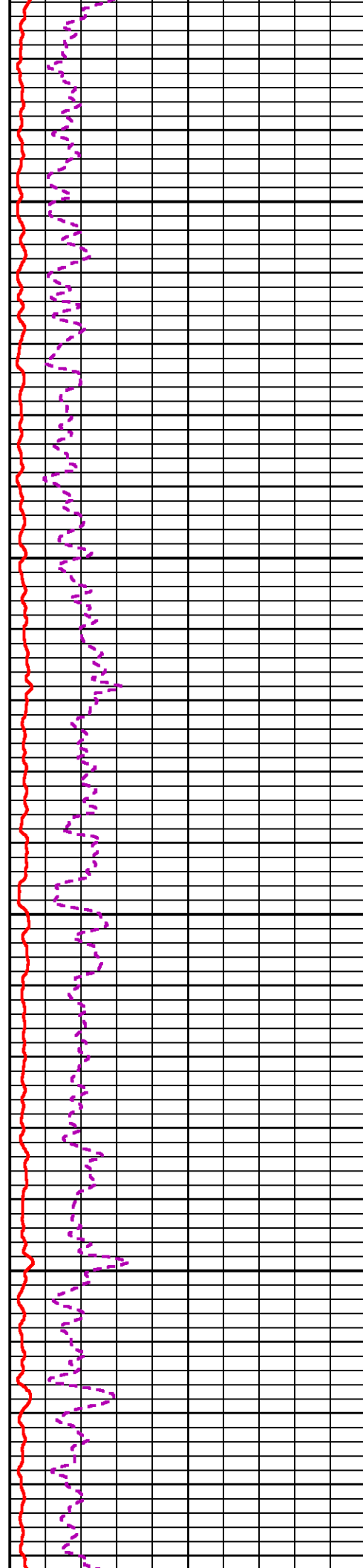
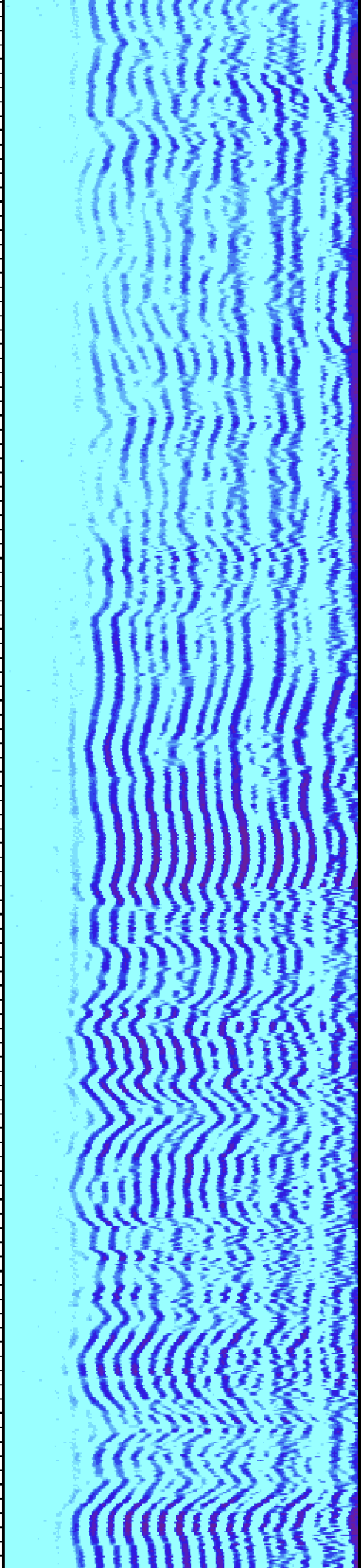


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SHORT JOINT

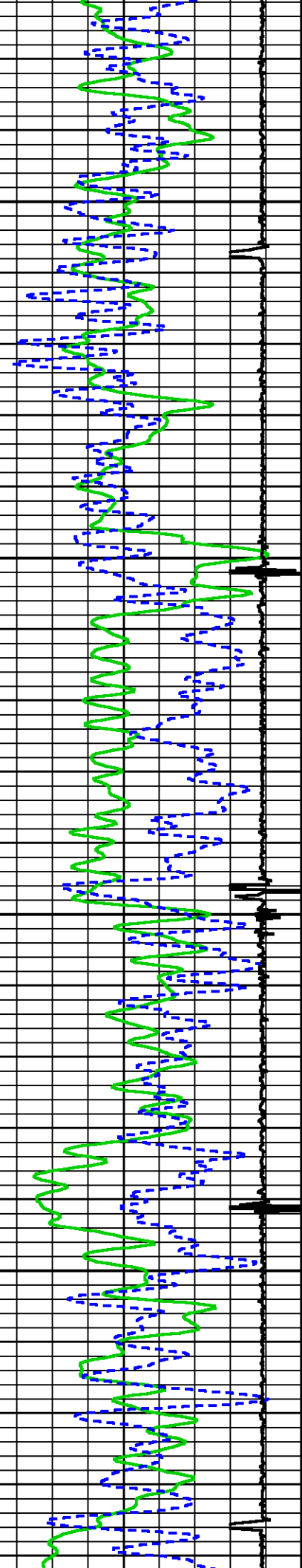
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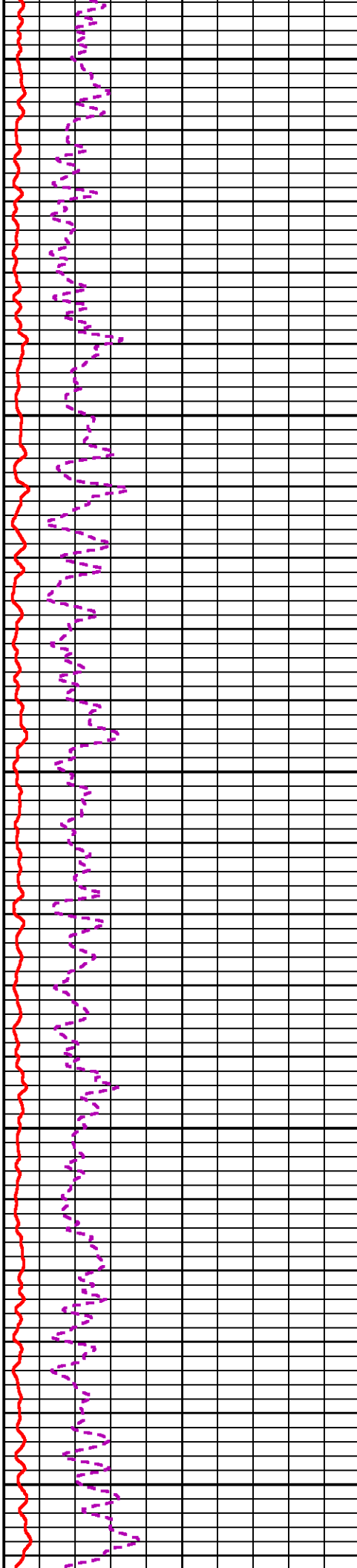
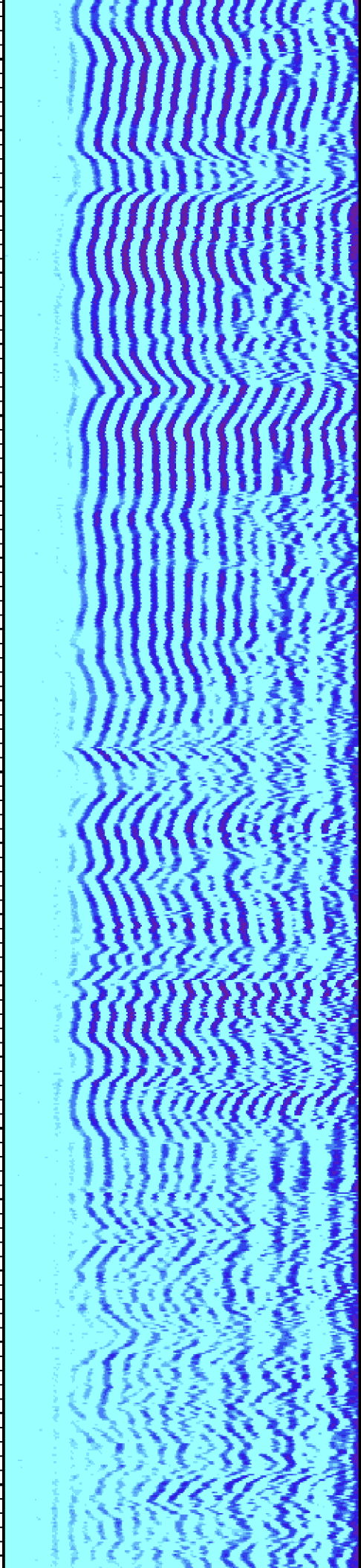




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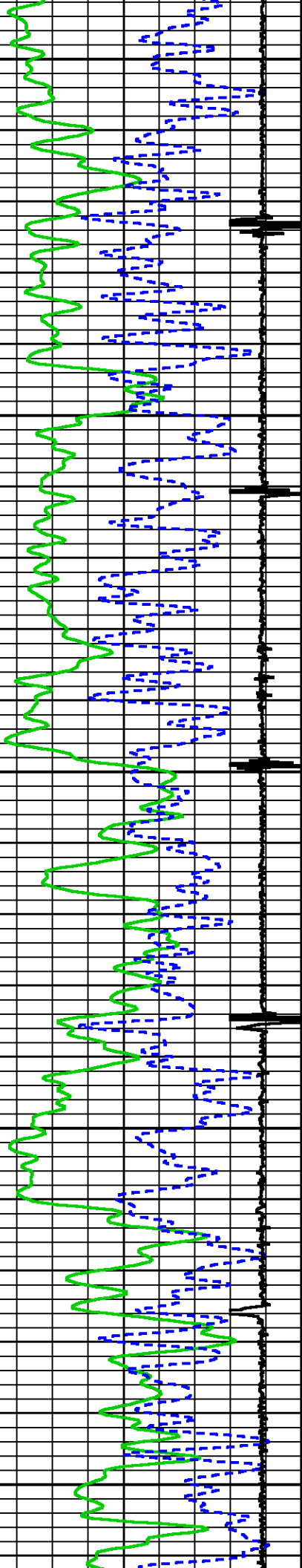
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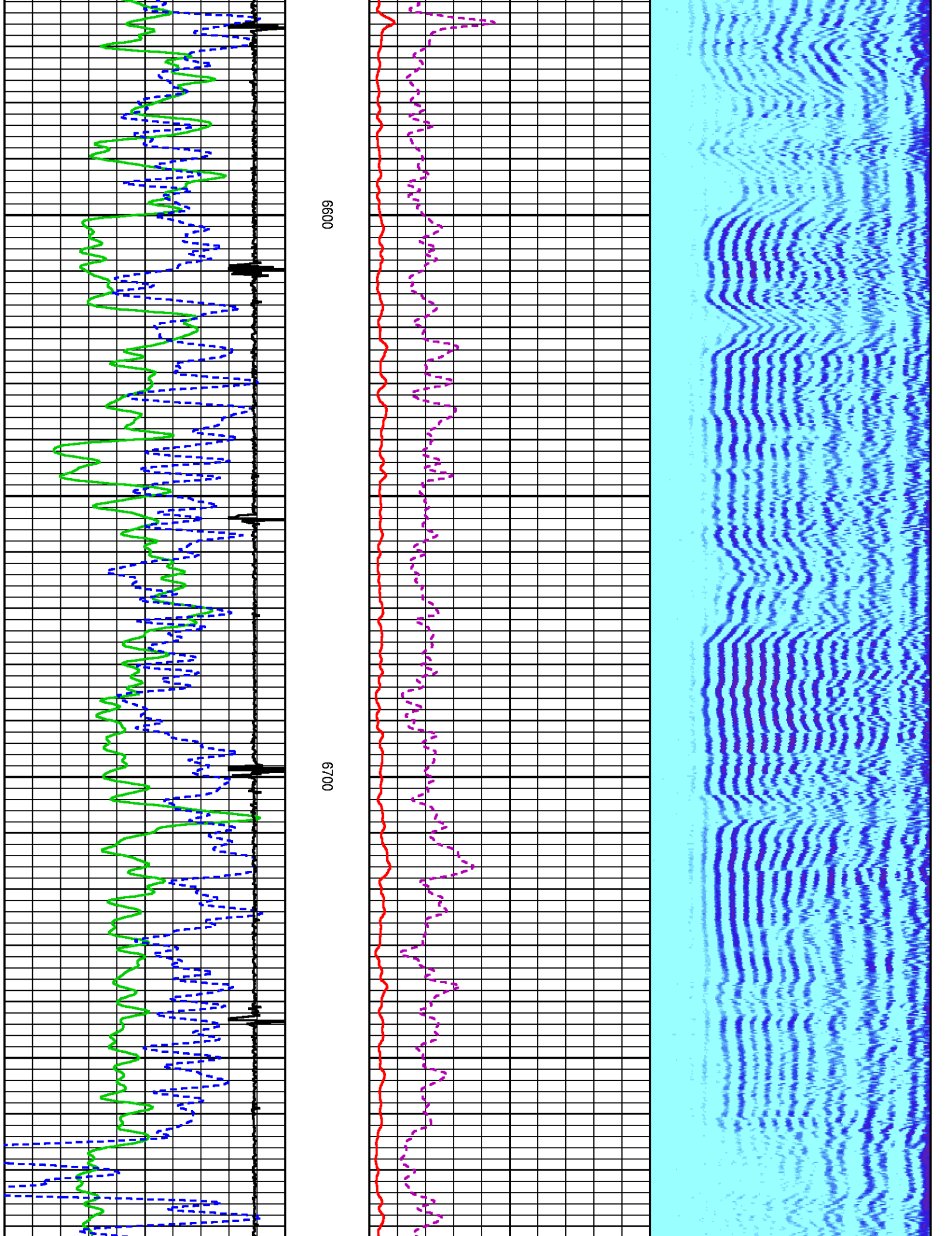


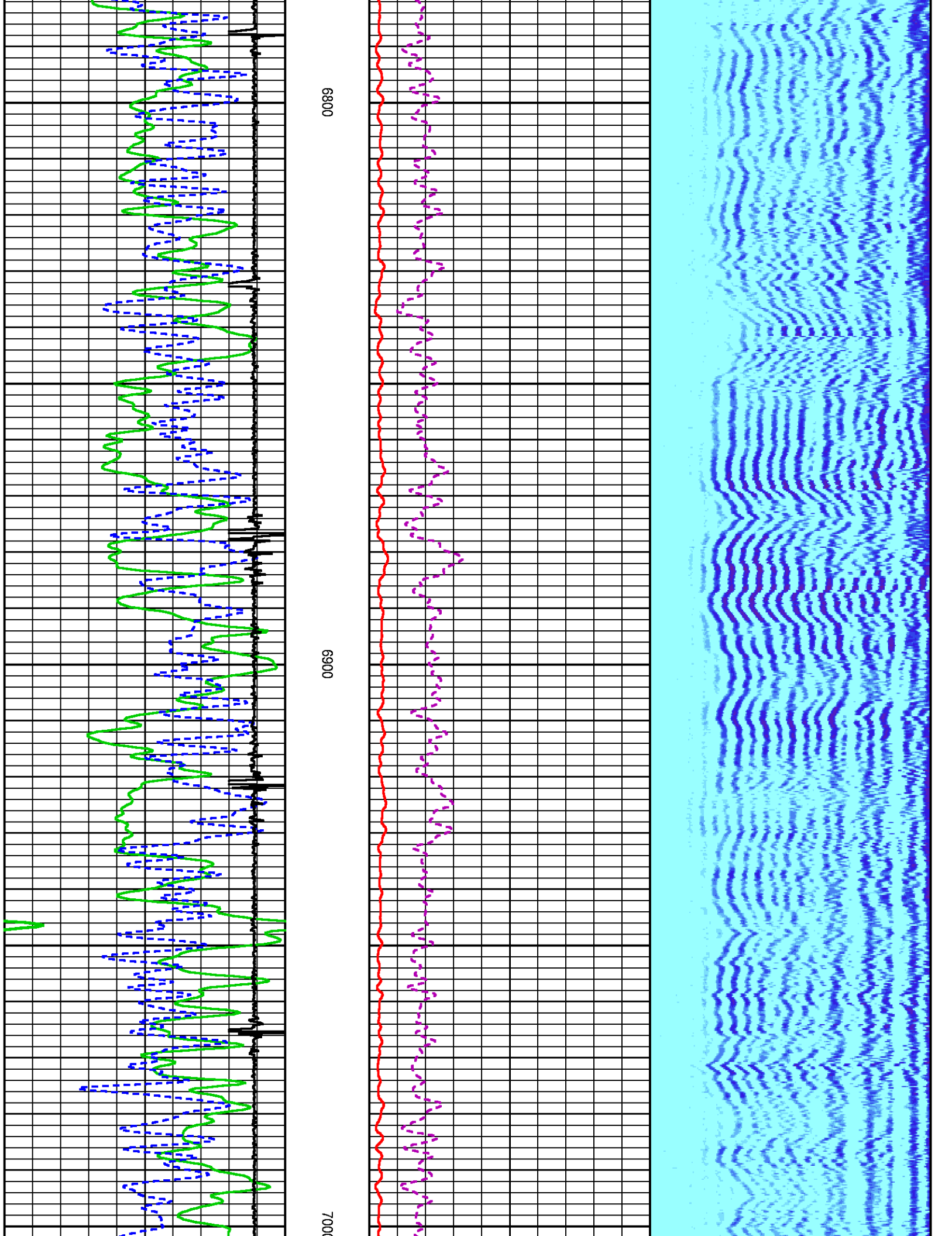


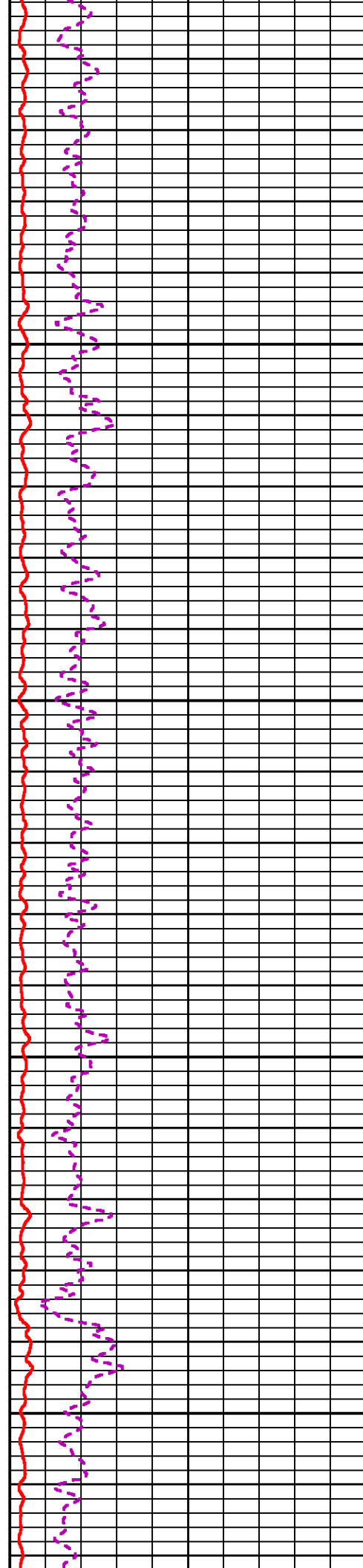
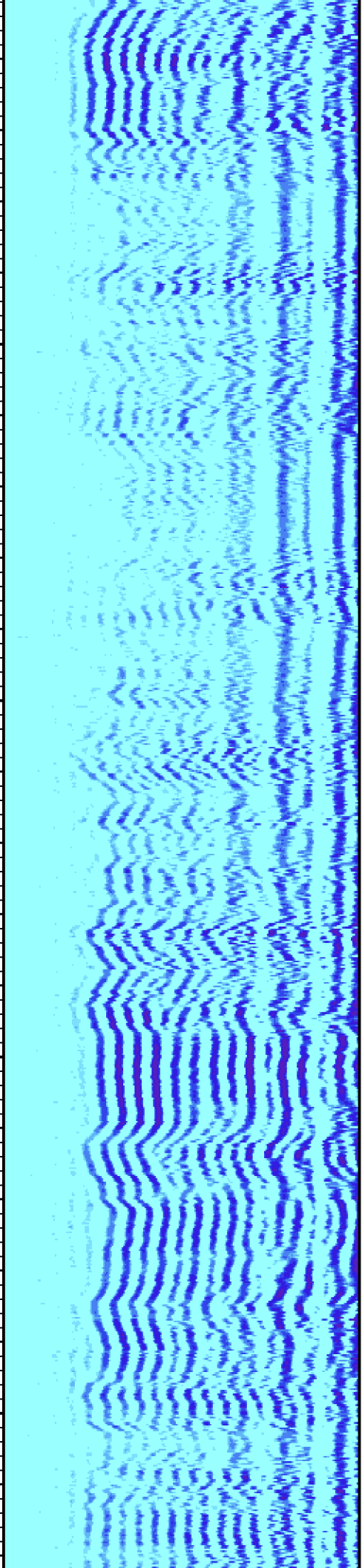
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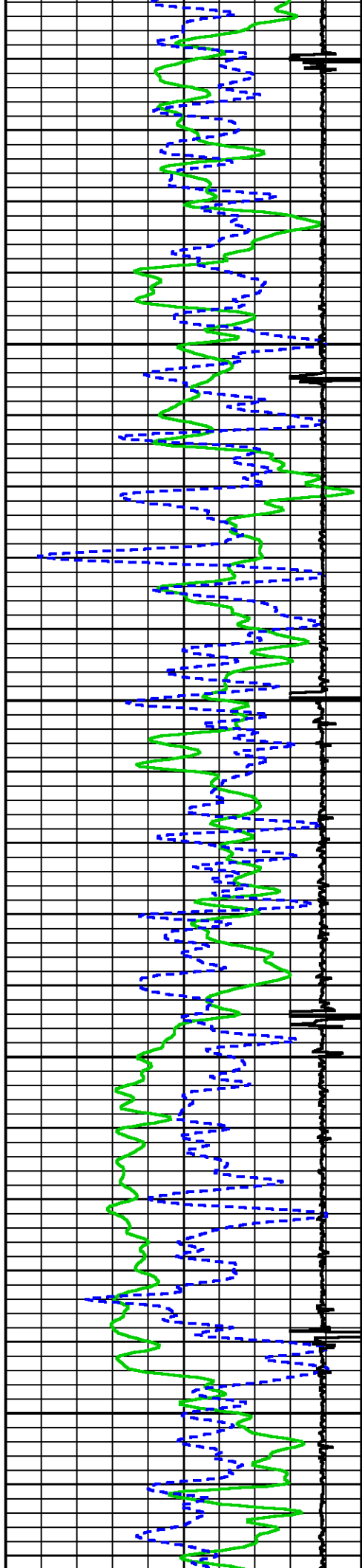


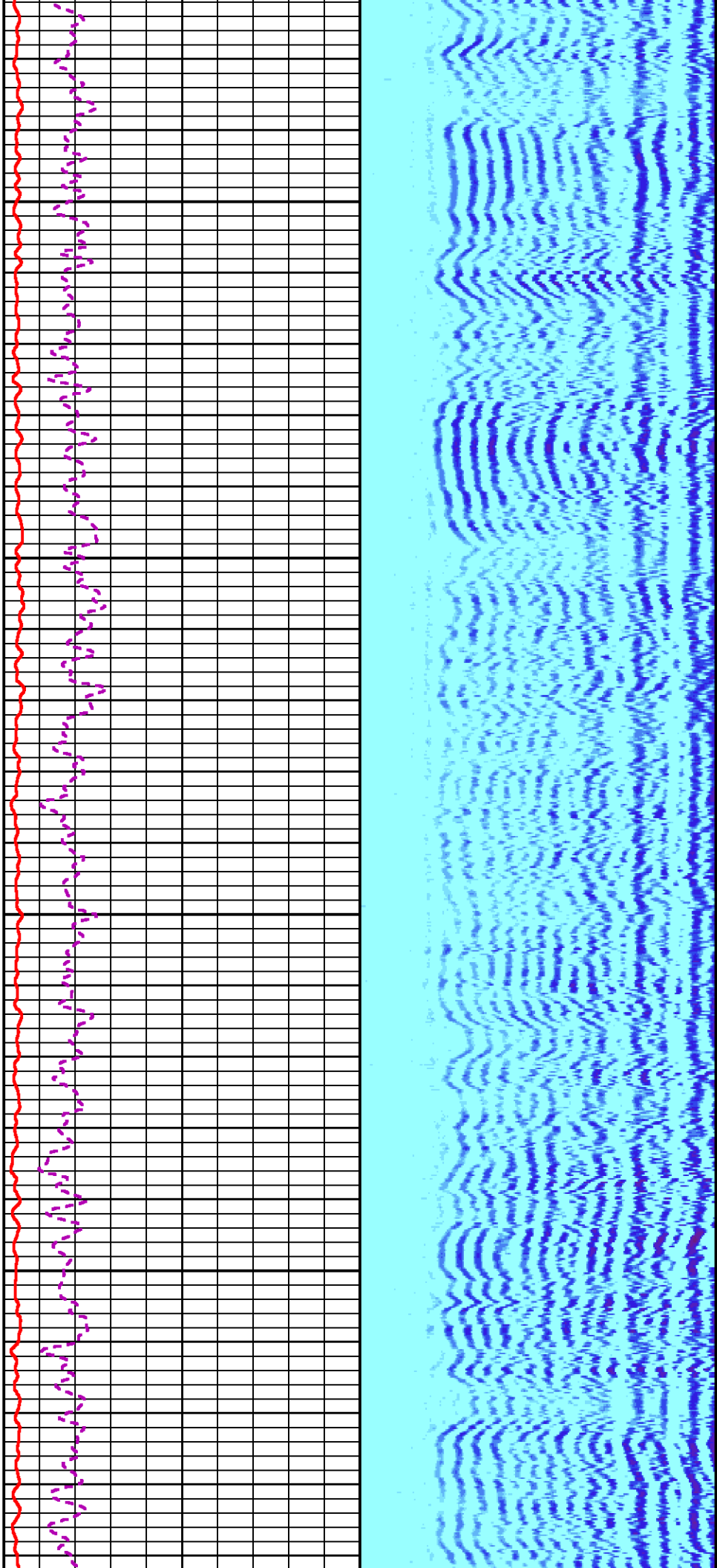






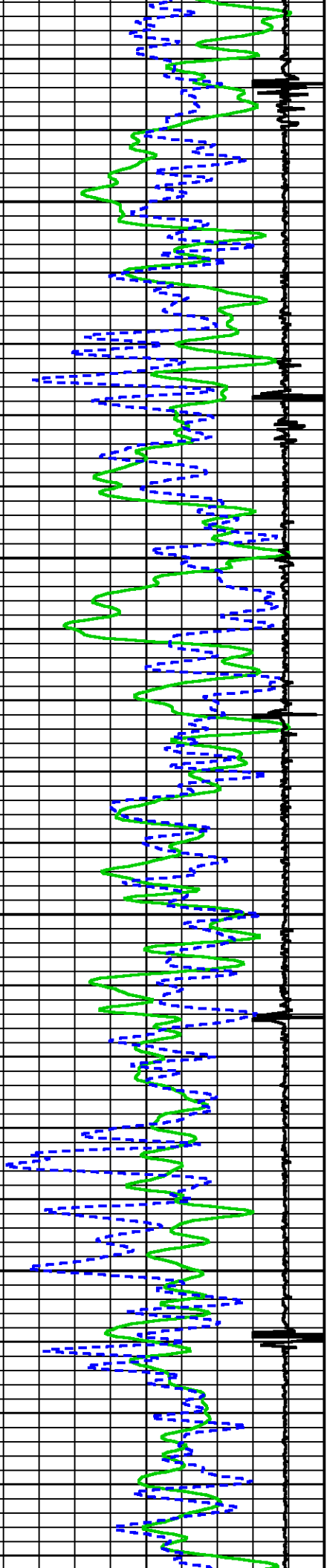
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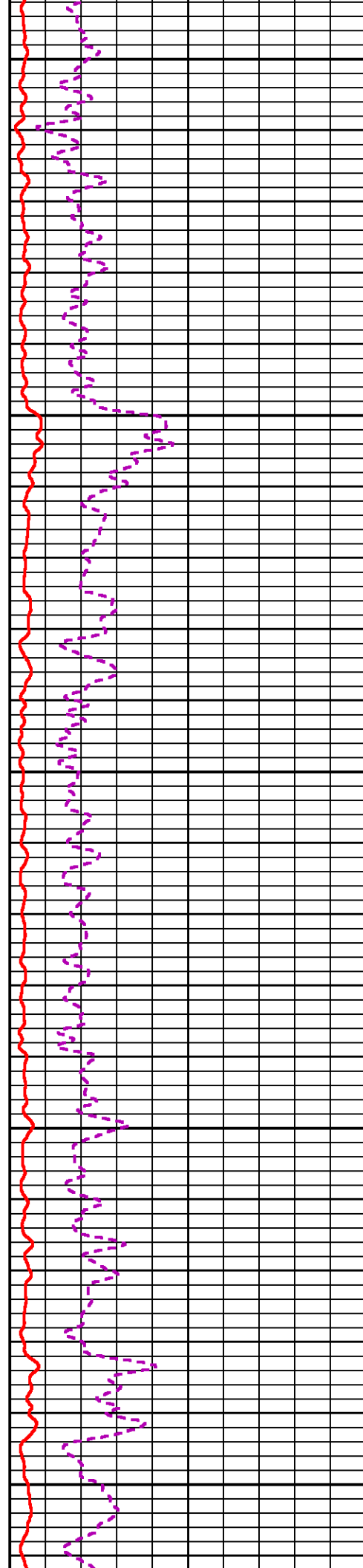
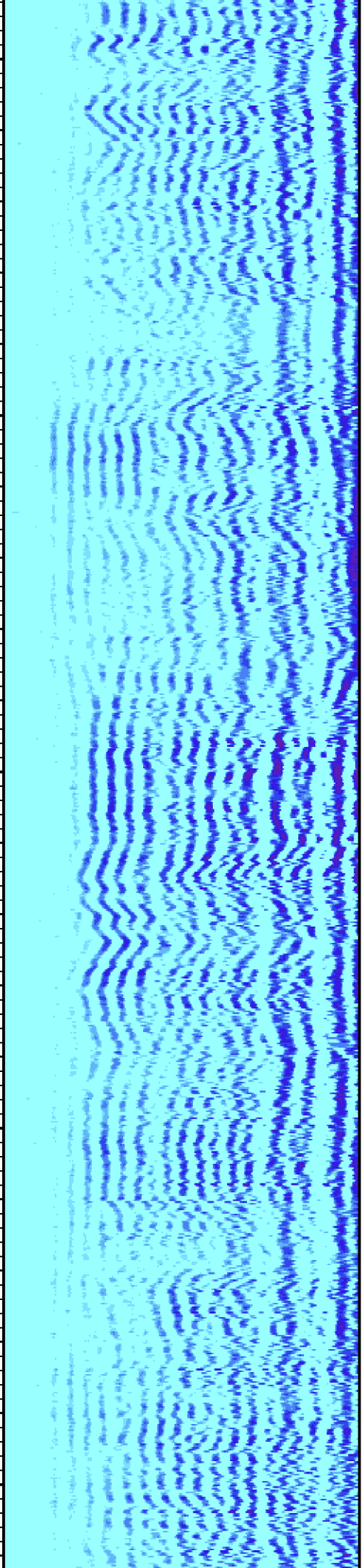




7300

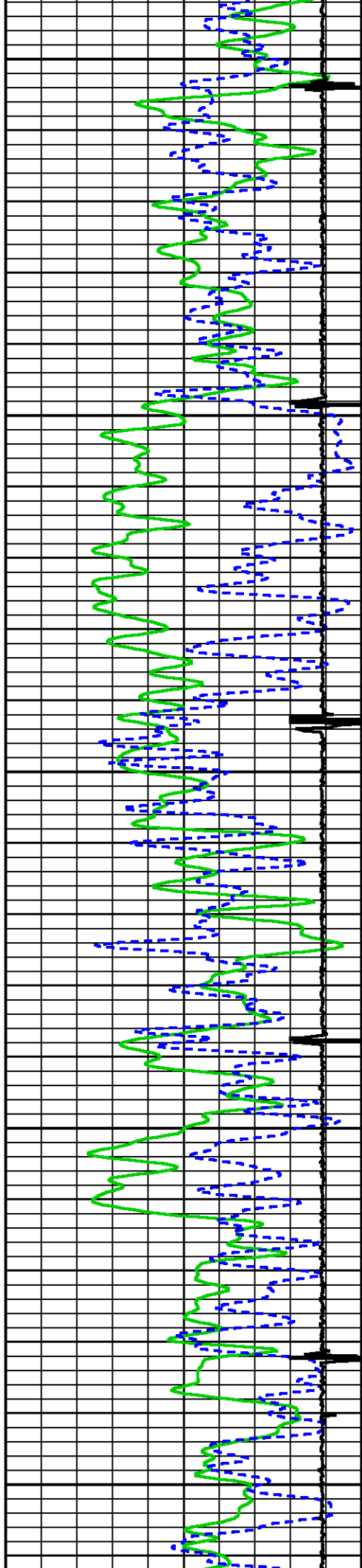
7400

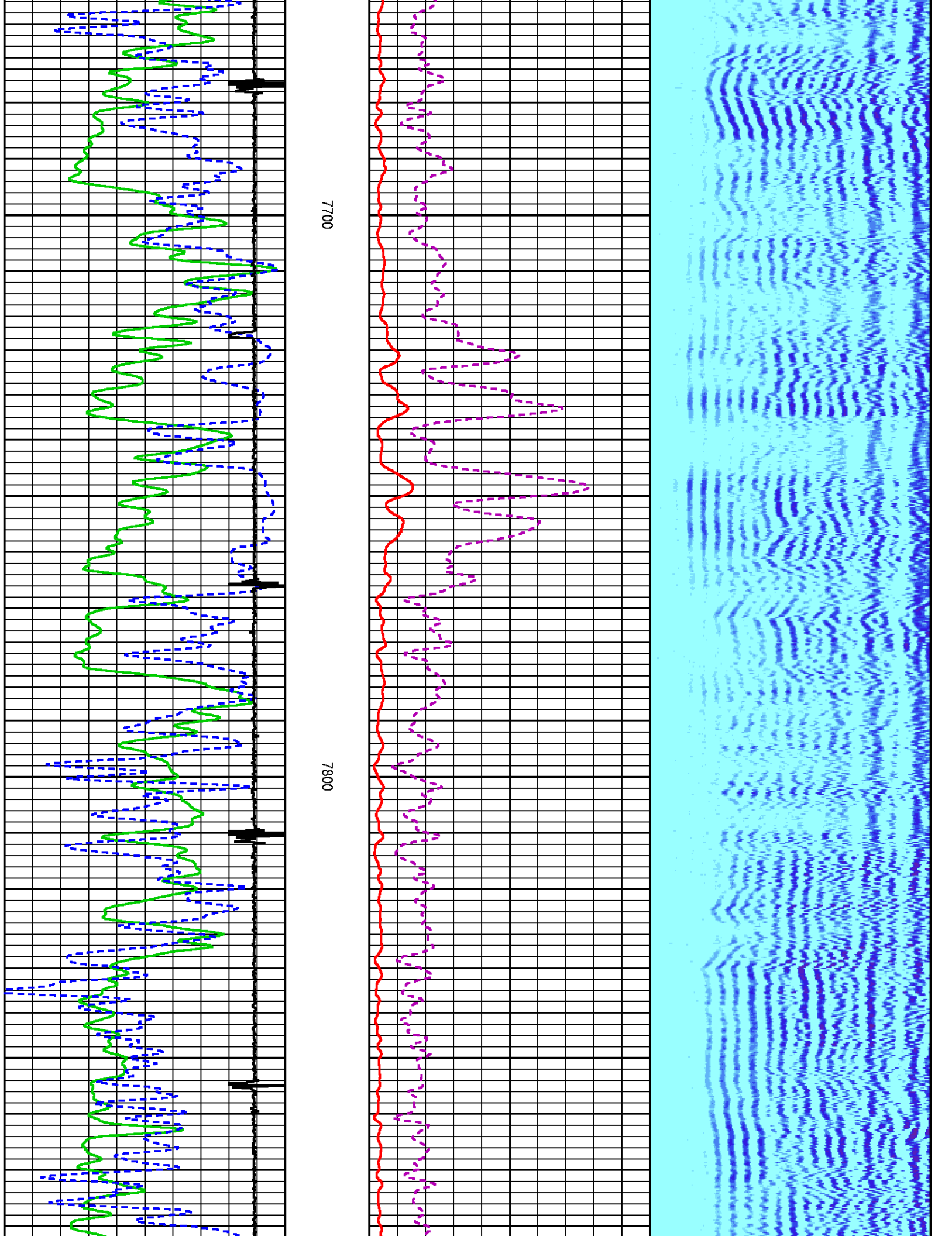


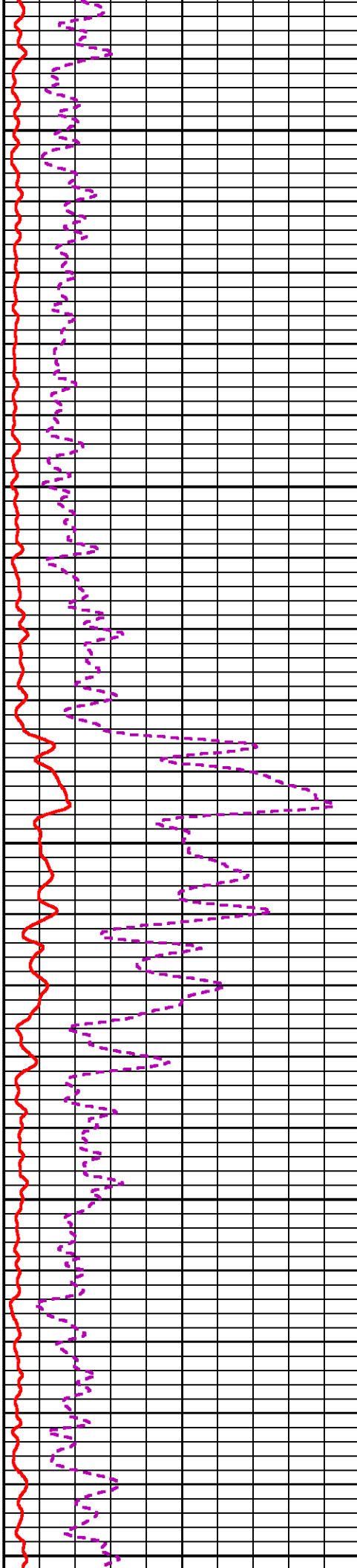
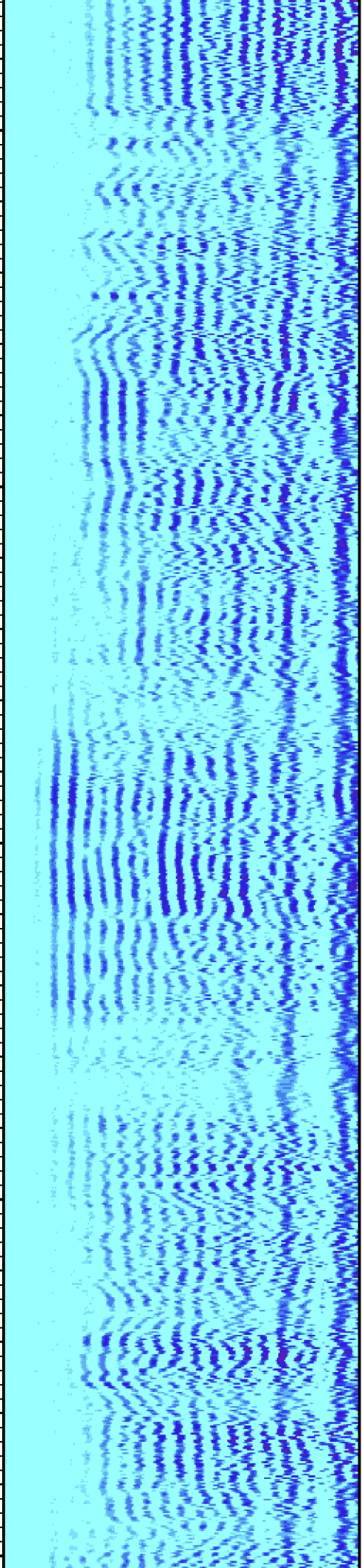


7500

7600



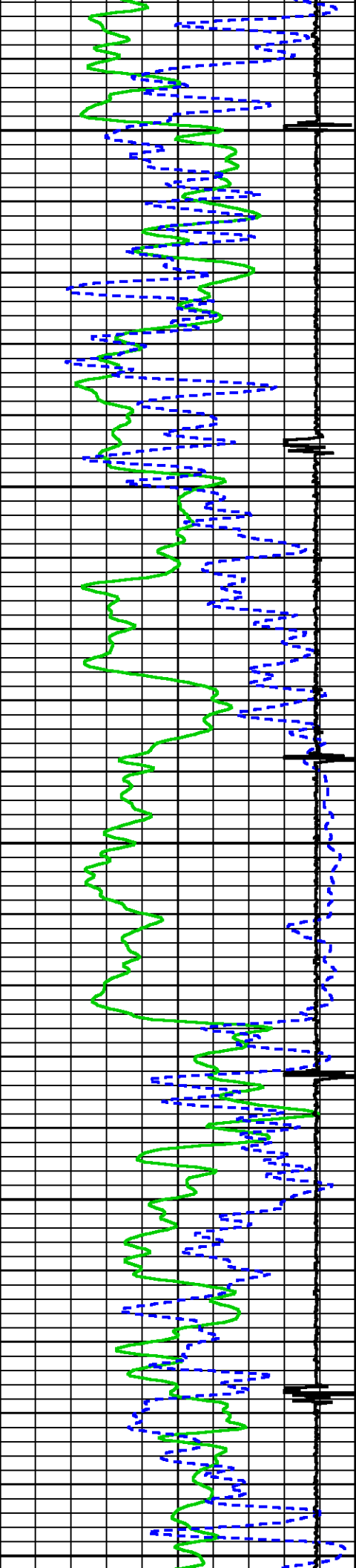


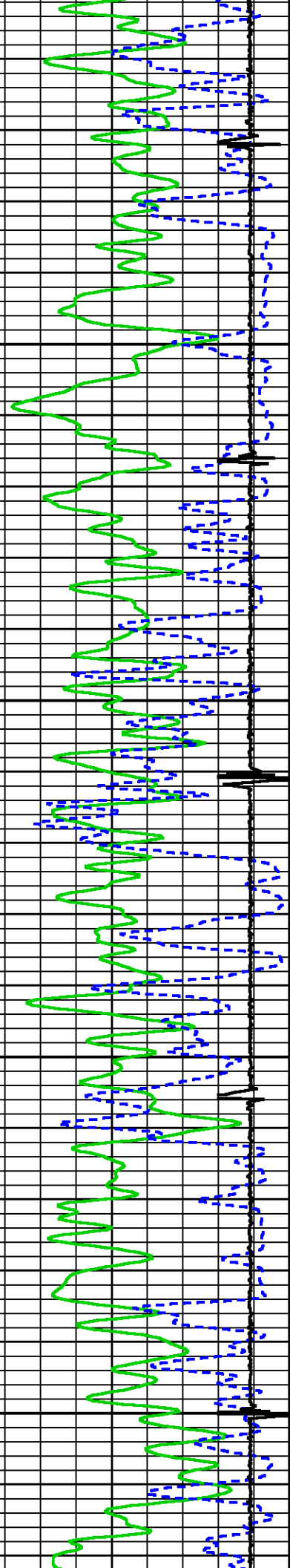
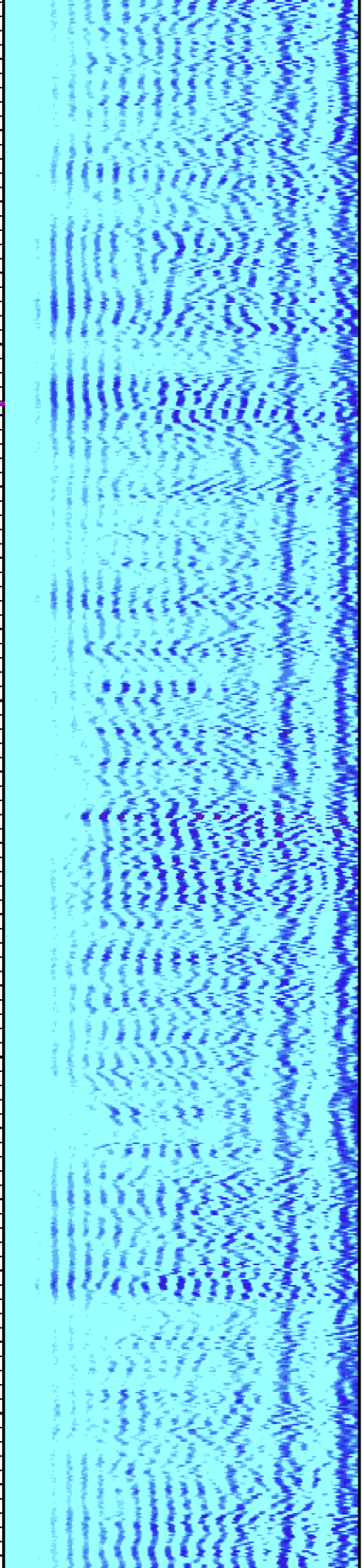
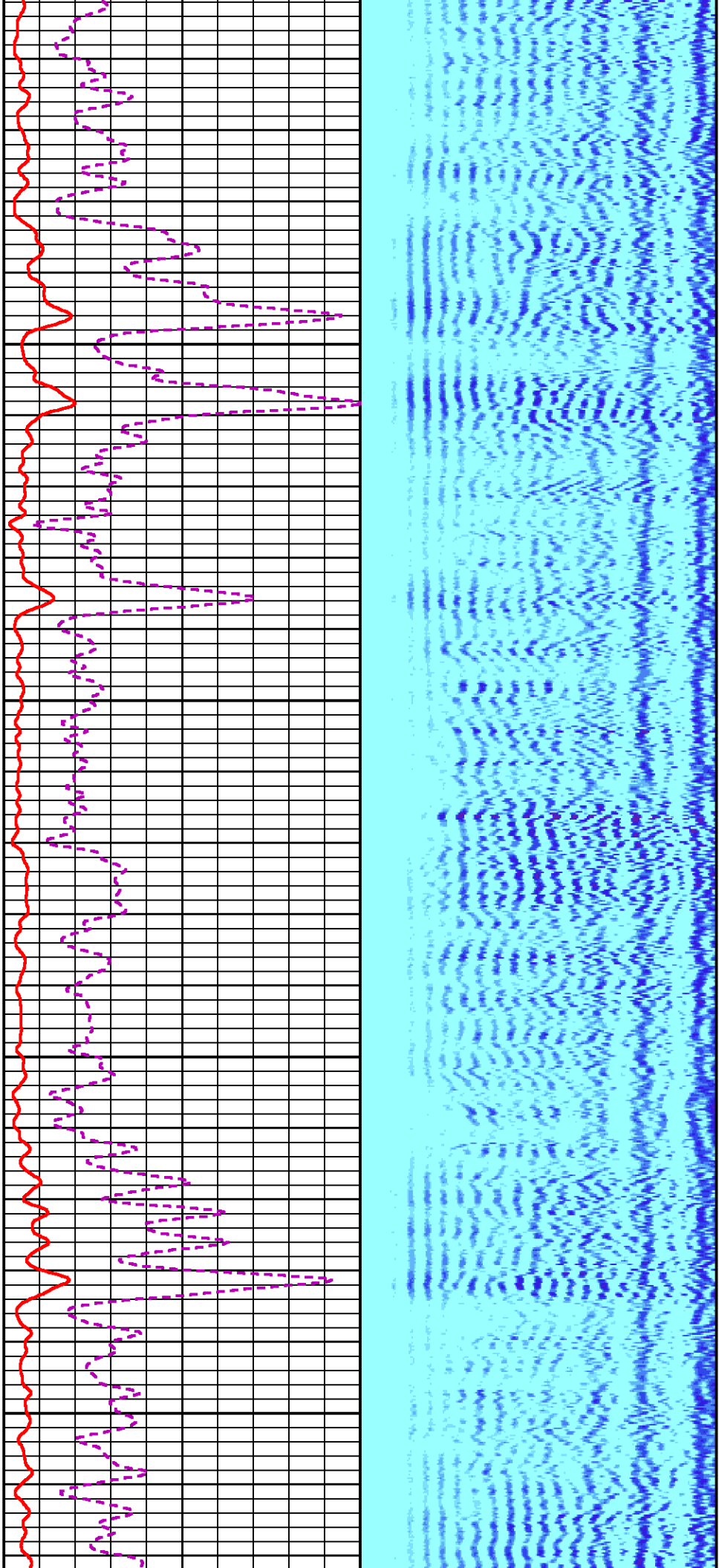


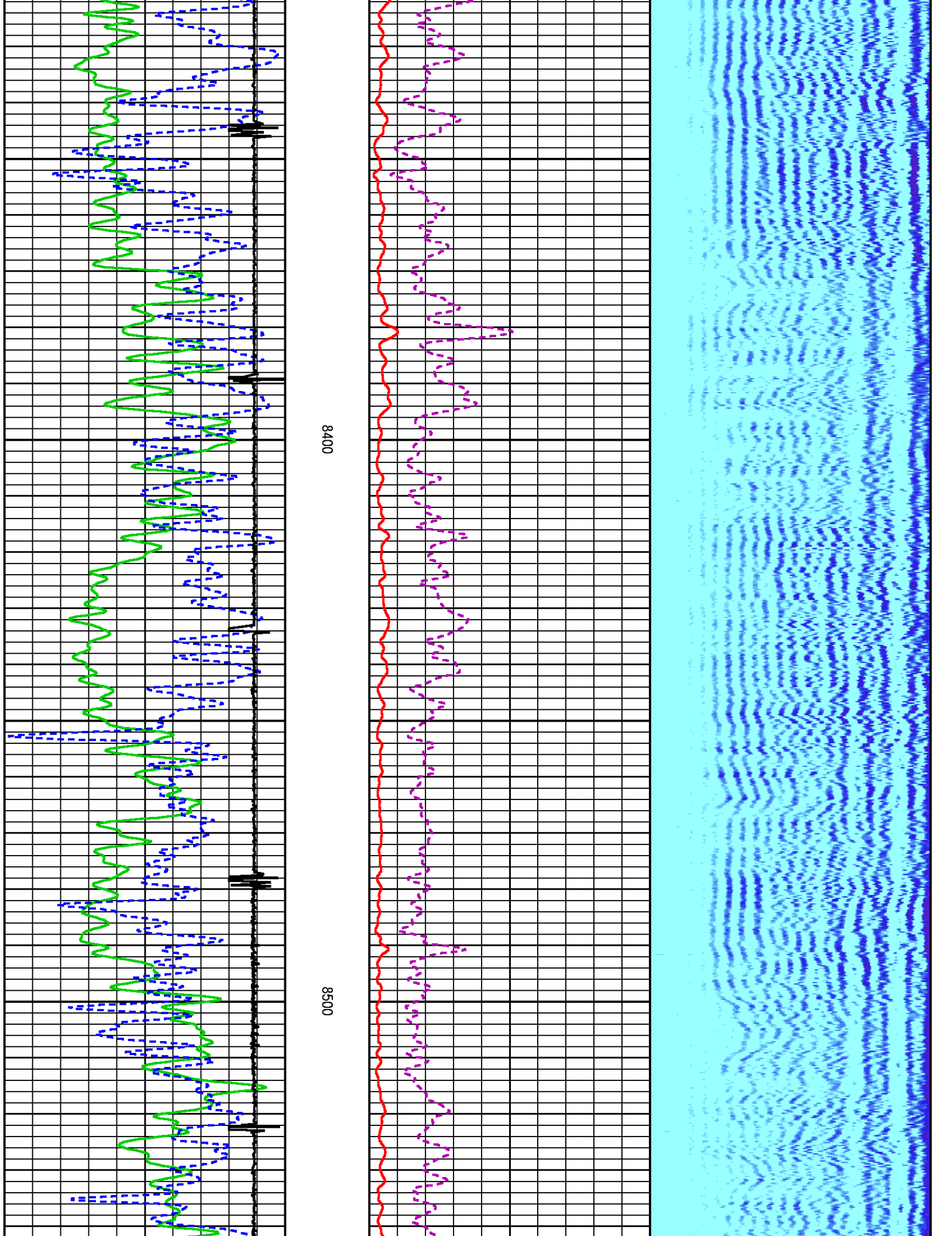
7900

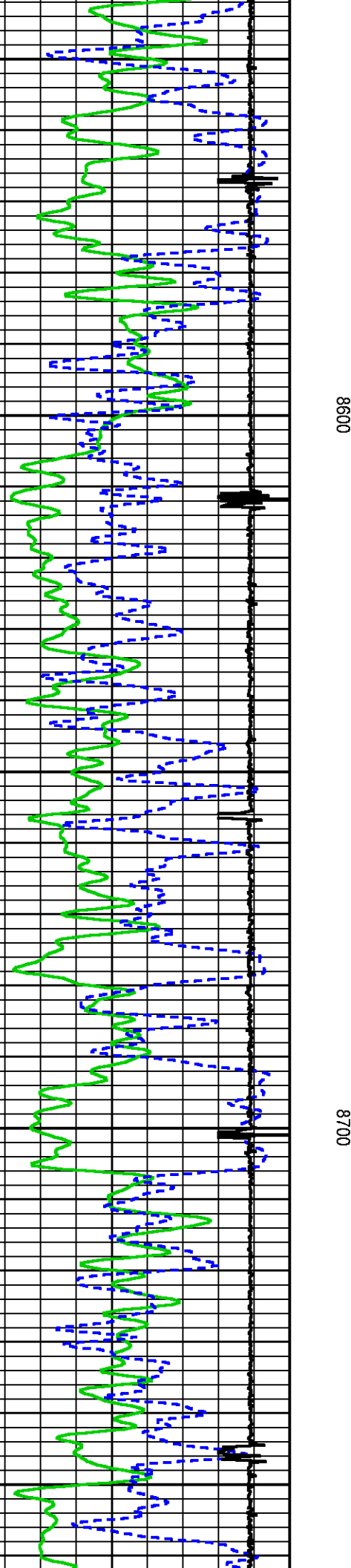
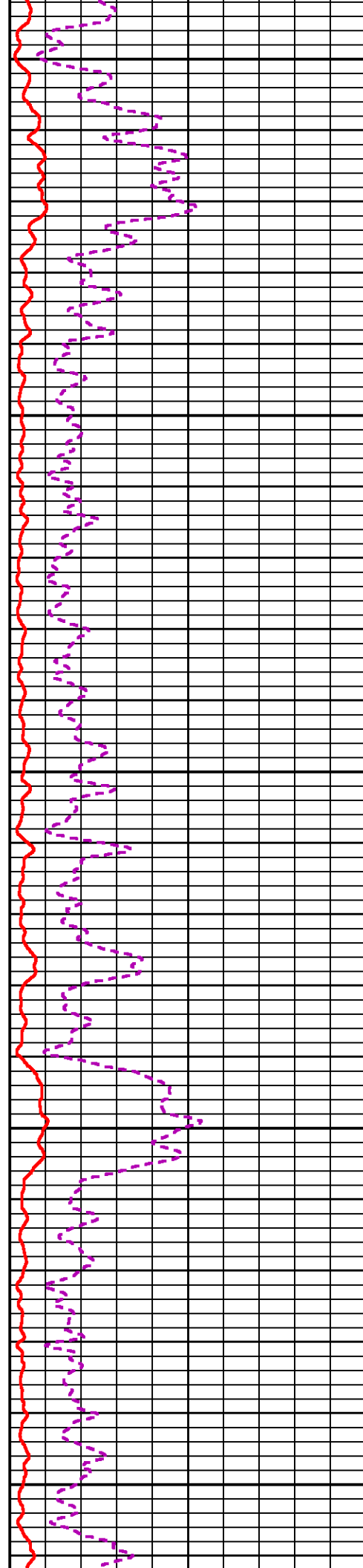
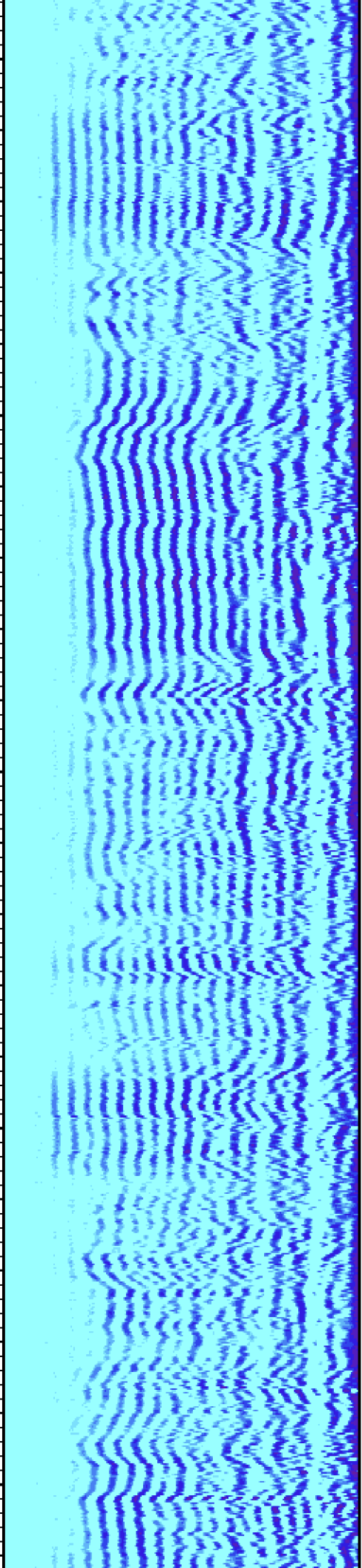
8000

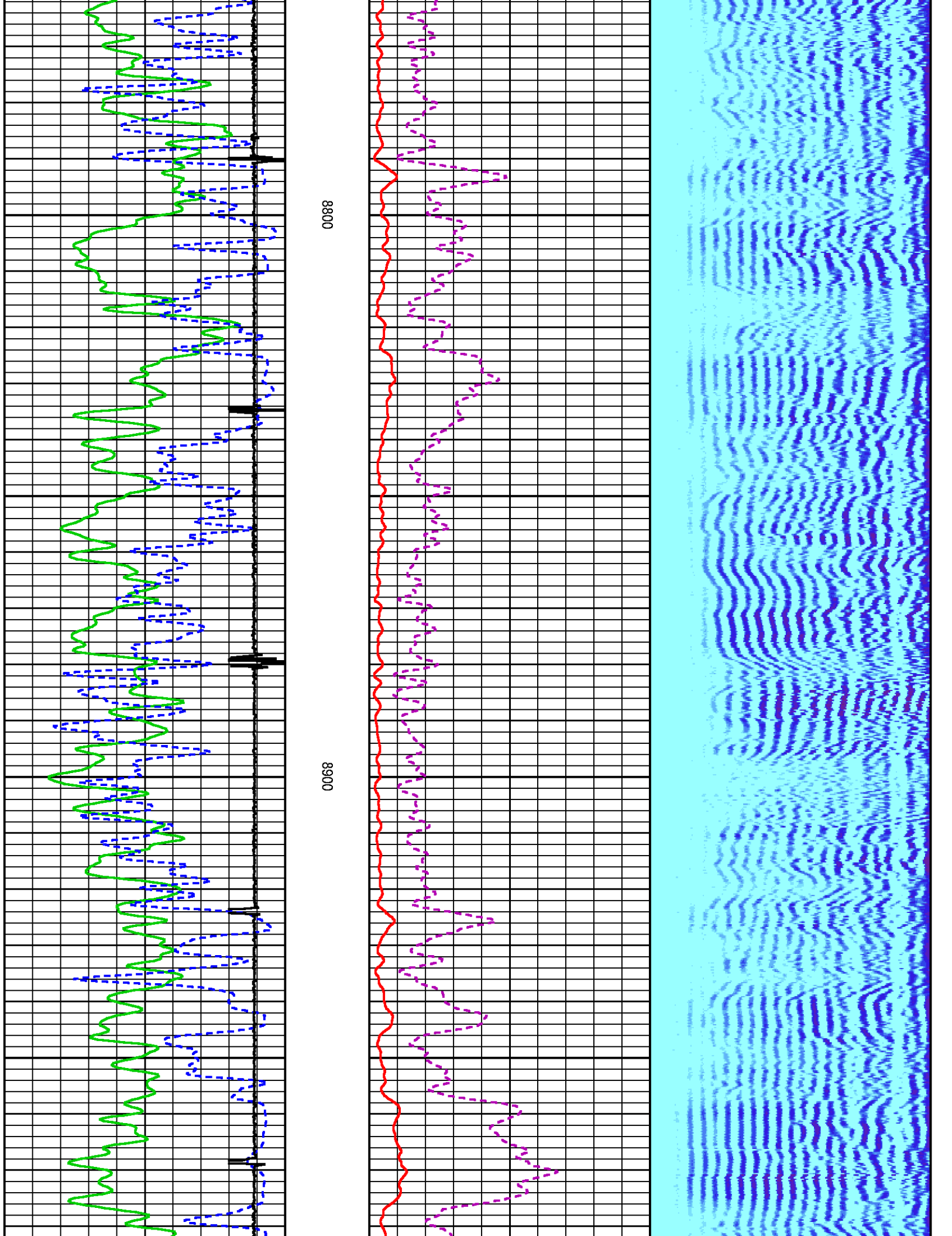
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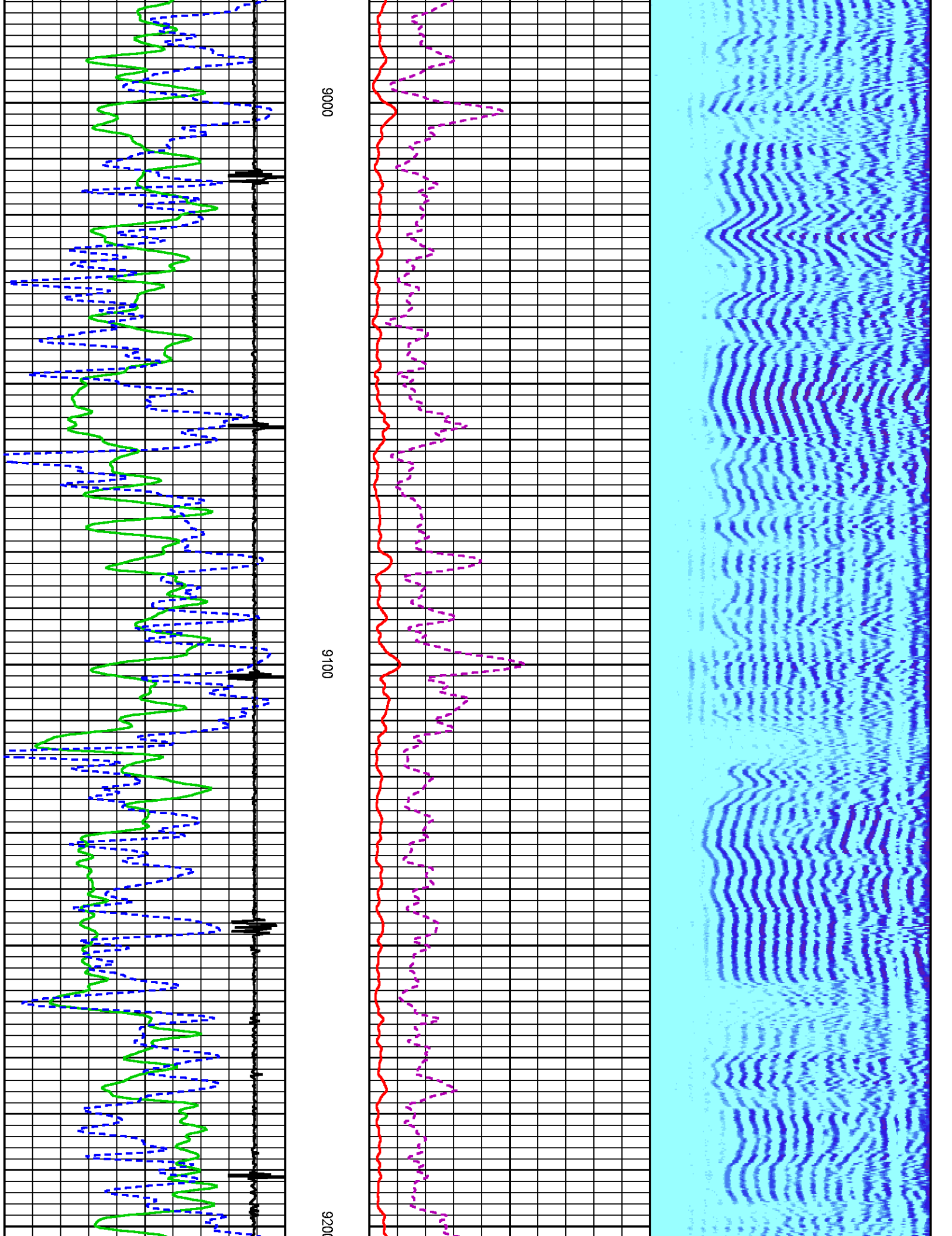


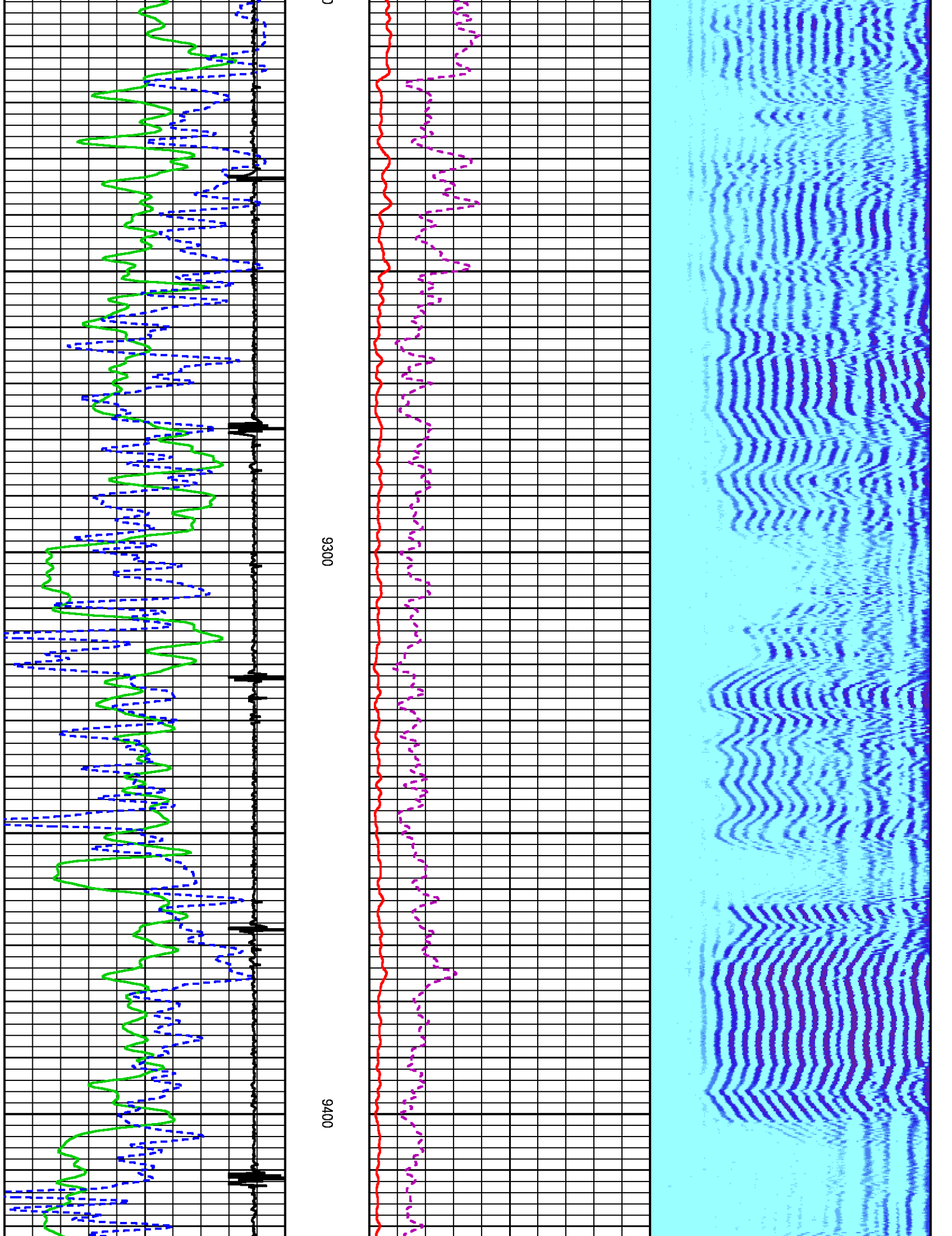


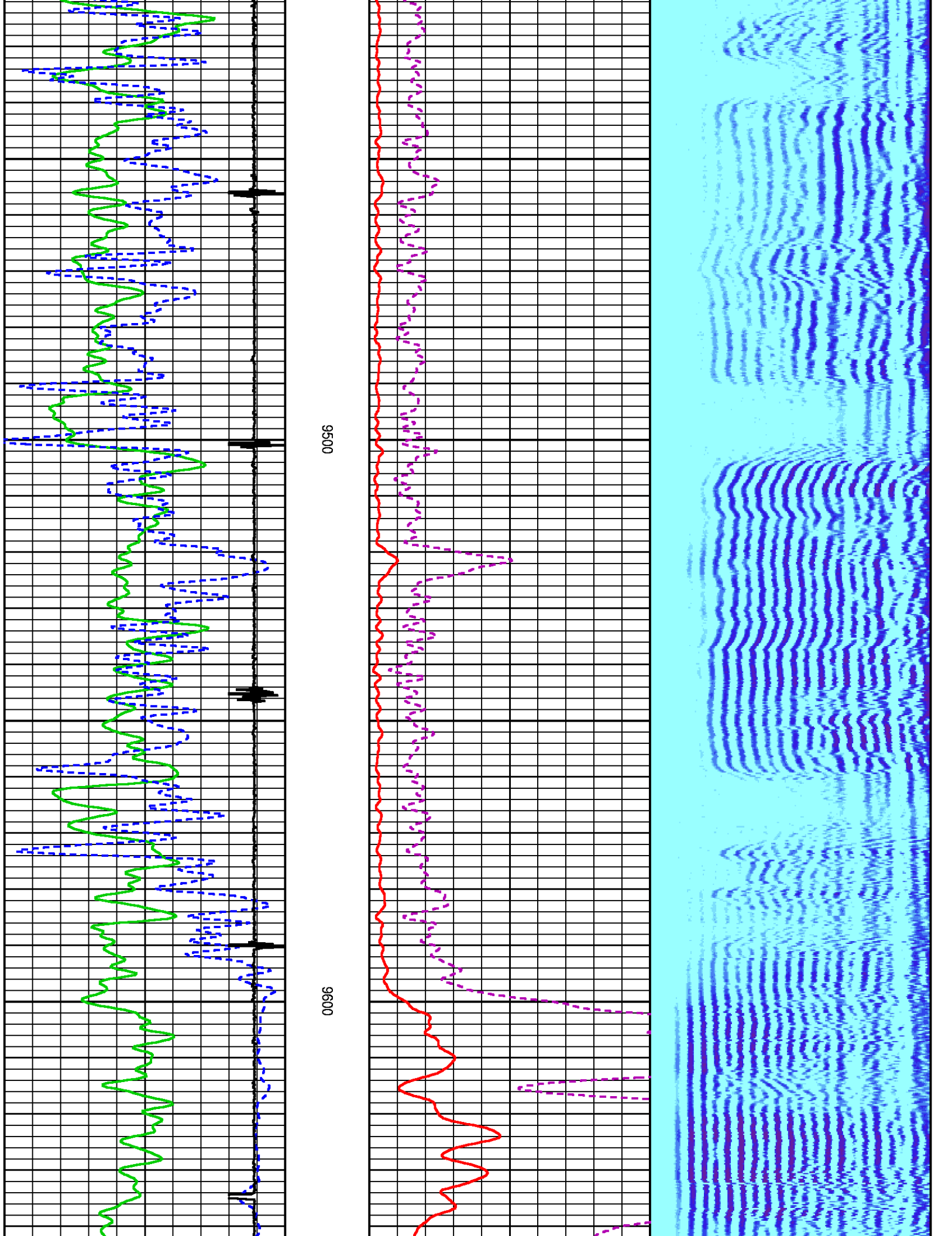


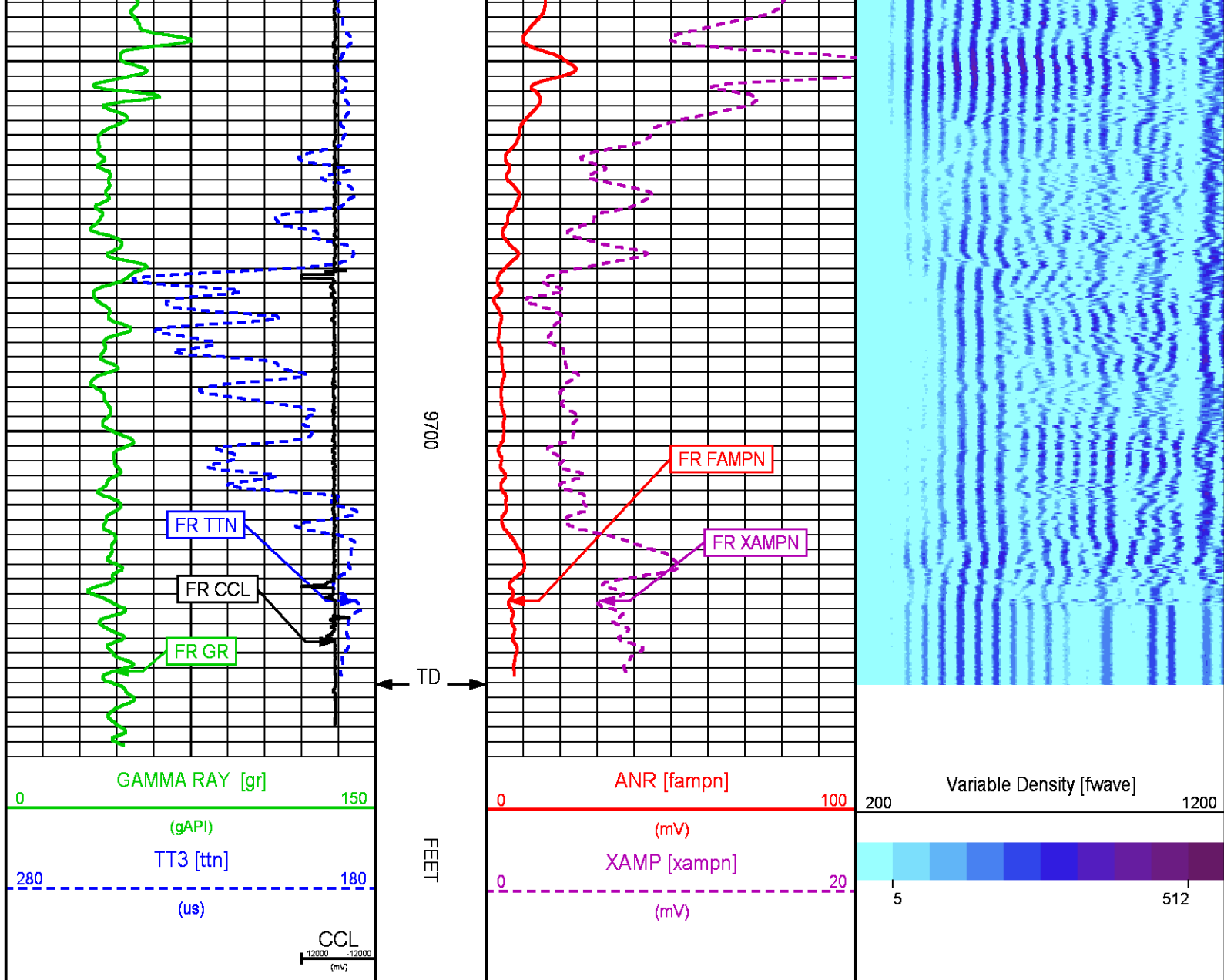












REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
 Updates: 1,36 Patches: 9

Plotted: Wed Oct 26 15:46:35 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG RU 321_7/n012g01.prm
 LOGGING MODE: DEPTH UP
 TOP DEPTH: 9386.250 ft BOTTOM DEPTH: 9741.750 ft

SYMMETRIC FILTER

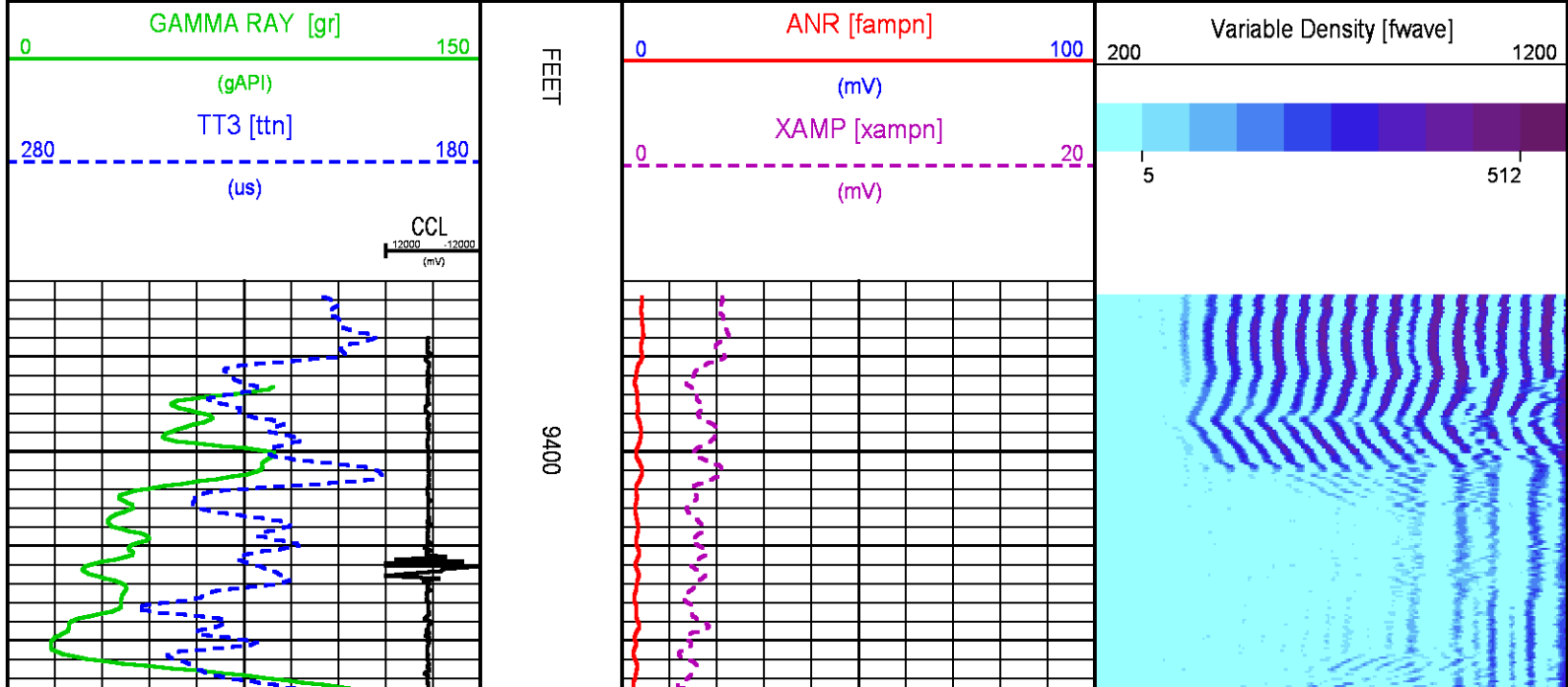
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"

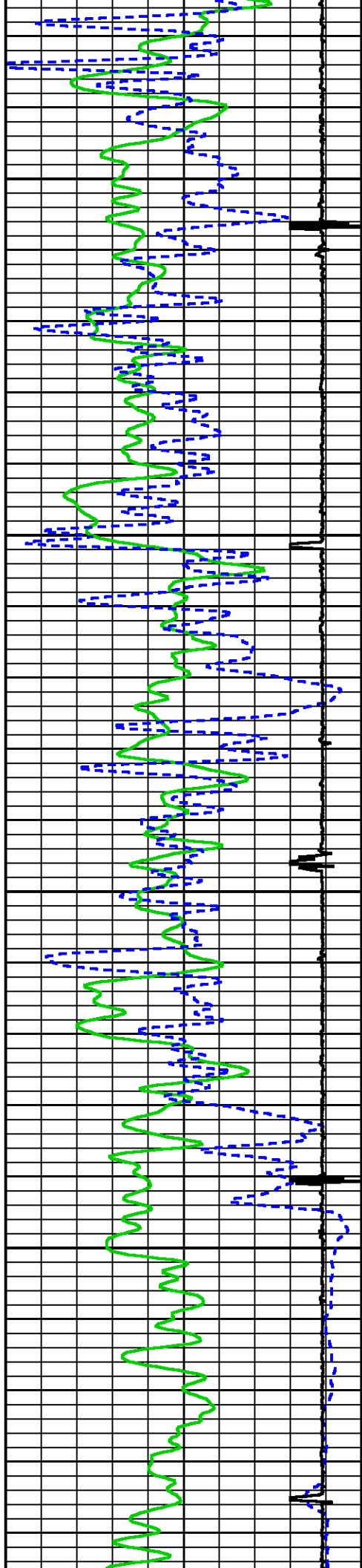
TRAVEL TIME	FILTER ()	medium (1)	"	"
RAL CCL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
CCL FLOOR	CCL FLOOR	0		TOP BOTTOM
ANALOG RAL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	182	us	TOP BOTTOM
	AMP WINDOW LENGTH	21	us	" "
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	us	" "
	TT WINDOW LENGTH	500	us	" "
	FIRST BRK THRESHOLD (ttn*)	4	mV	" "
RAL CASING PARAMETERS	PPT NEAR	200.391	us	" "
RAL TOOL DELAY	TOOL DELAY (strn*)	-75	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	Oct 21 17:12:13 2016	CASING COLLAR LOCATOR
F1:FAMPN	Oct 21 17:12:13 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Oct 21 17:12:13 2016	FAR WAVE FORM
F1:GR	Oct 21 17:12:13 2016	GAMMA RAY
F1:TTN	Oct 21 17:12:13 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Oct 21 17:12:13 2016	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				

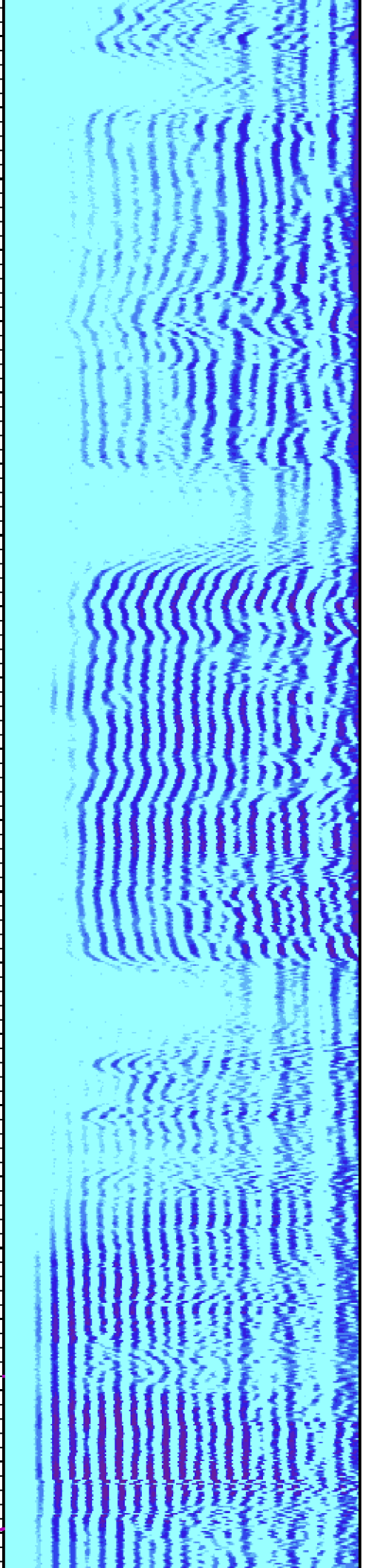
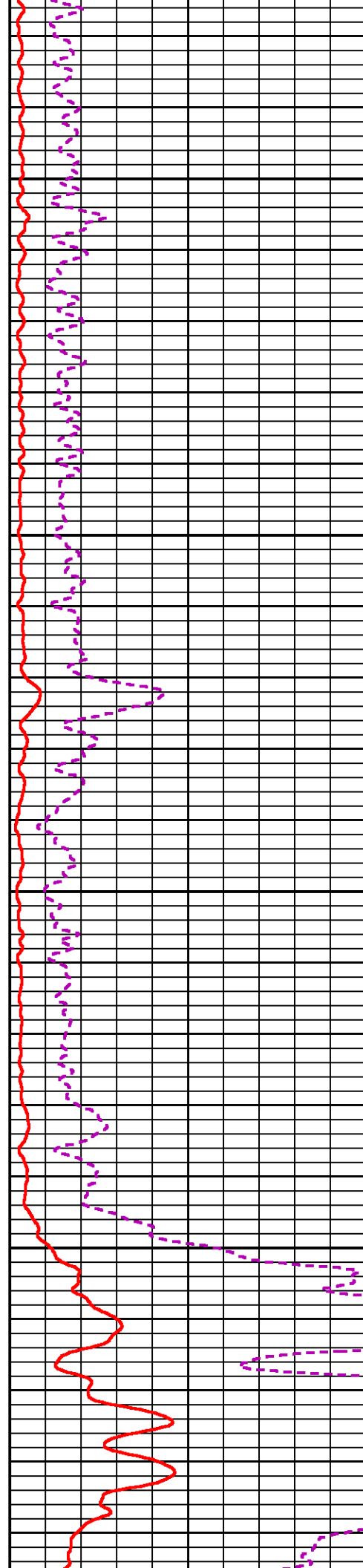
Presentation	: cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/ral_cbl+01-REPEAT-RAL_RPT-5.fvpdf [5"/100' Scale]
Plot Interval	: 9383.5 - 9748.25 Feet
Data File 1	: F1 : cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/RAL_RPT.xtf
Created On	: Oct 21 17:12:13 2016
Company	: TEP ROCKY MOUNTAIN LLC
Well	: YOUBERG RU 321-7
Field	: RULISON
File Interval	: 9382.5 - 9749.75 Feet
OCT	: n012g

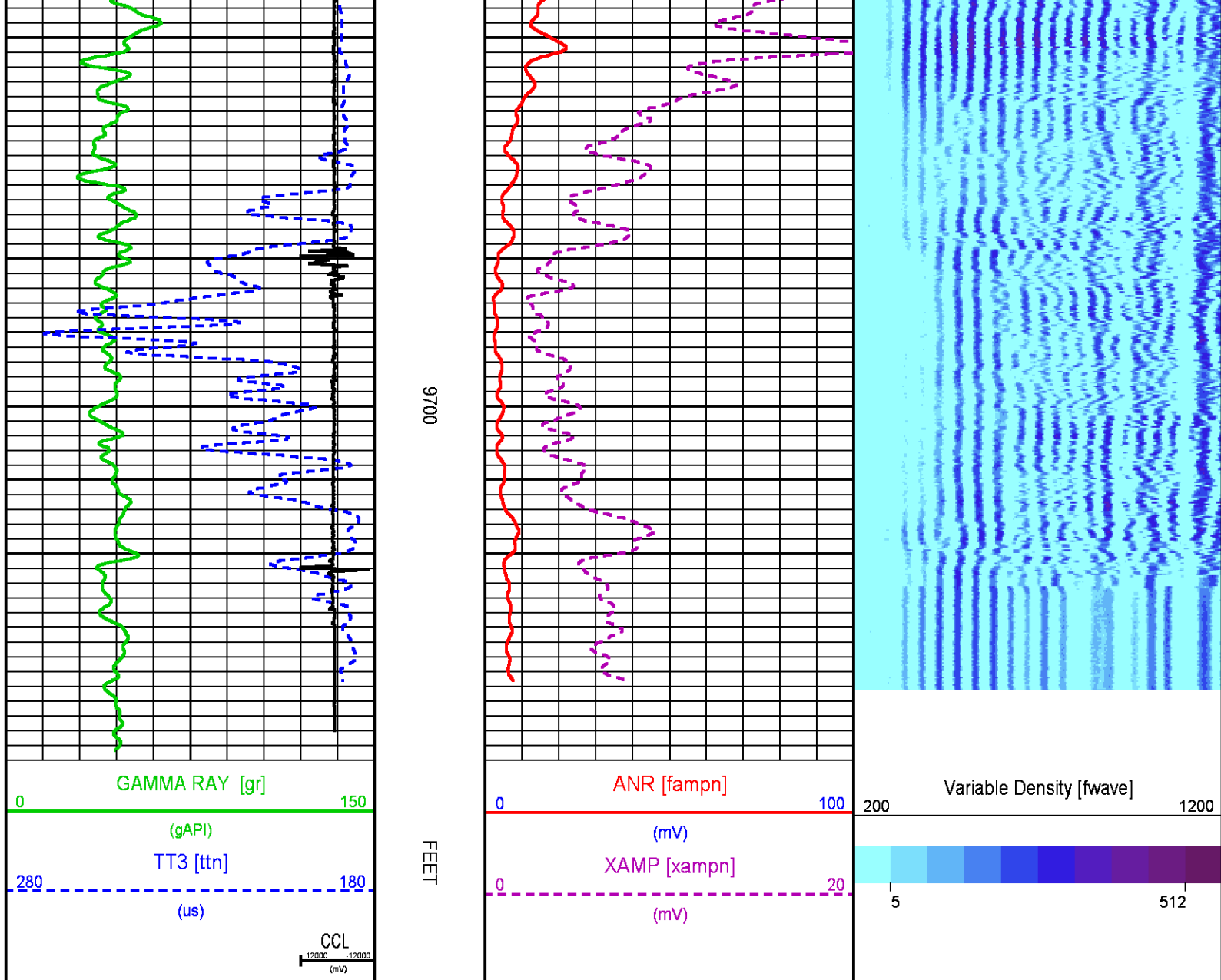




9500

9600





SECONDARY MAIN 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1,36 Patches: 9

Plotted: Wed Oct 26 15:43:30 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_RU_321_7/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 18.750 ft BOTTOM DEPTH: 9737.500 ft

SYMMETRIC FILTER

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

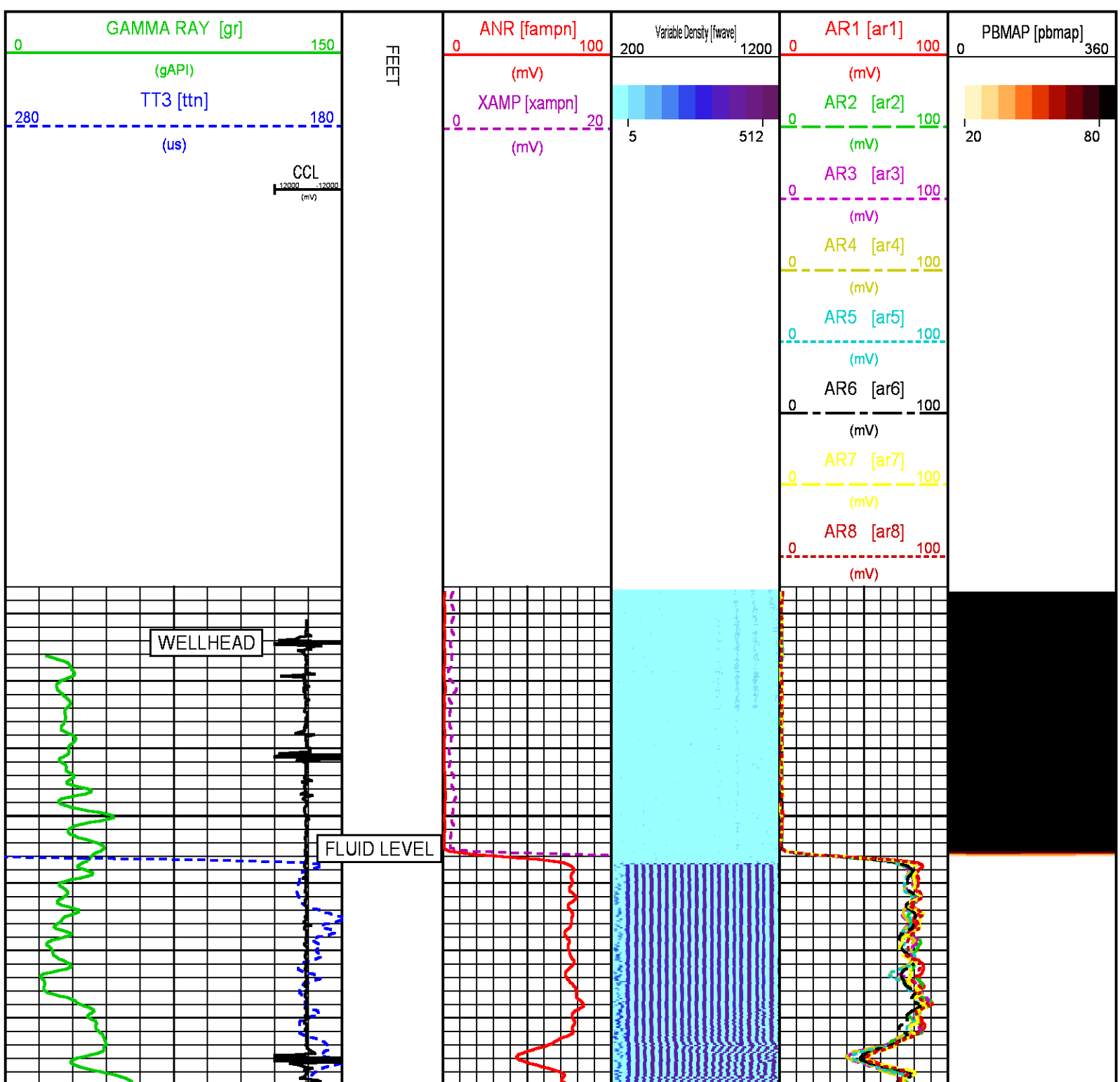
TRAVEL TIME	FILTER ()	medium (1)	"	"
RAL CCL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
CCL FLOOR	CCL FLOOR	0	TOP	BOTTOM
ANALOG RAL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	182	us	TOP
	AMP WINDOW START (fgp2*)	182	us	"
	AMP WINDOW START (fgp3*)	182	us	"
	AMP WINDOW START (fgp4*)	182	us	"
	AMP WINDOW START (fgp5*)	182	us	"
	AMP WINDOW START (fgp6*)	182	us	"
	AMP WINDOW START (fgp7*)	182	us	"
	AMP WINDOW START (fgp8*)	182	us	"
	AMP WINDOW START (fgpn*)	182	us	"
	AMP WINDOW LENGTH	21	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*)	-75	us	"
	TOOL DELAY (str2*)	-75	us	"
	TOOL DELAY (str3*)	-75	us	"
	TOOL DELAY (str4*)	-75	us	"
	TOOL DELAY (str5*)	-75	us	"
	TOOL DELAY (str6*)	-75	us	"
	TOOL DELAY (str7*)	-75	us	"
	TOOL DELAY (str8*)	-75	us	"
	TOOL DELAY (strn*)	-75	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
	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	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R1		
F1:AR2	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R2		
F1:AR3	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R3		
F1:AR4	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R4		
F1:AR5	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R5		
F1:AR6	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R6		
F1:AR7	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R7		
F1:AR8	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE T-R8		
F1:CCL	Oct 21 17:23:19 2016	CASING COLLAR LOCATOR		
F1:FAMPN	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE NEAR RECEIVER		
F1:FWAVE	Oct 21 17:23:19 2016	FAR WAVE FORM		
F1:GR	Oct 21 17:23:19 2016	GAMMA RAY		
F1:PBMAP	Oct 21 17:23:19 2016	PERCENT BOND CEMENT MAP		
F1:TTN	Oct 21 17:23:19 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER		
F1:XAMPN	Oct 21 17:23:19 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE		

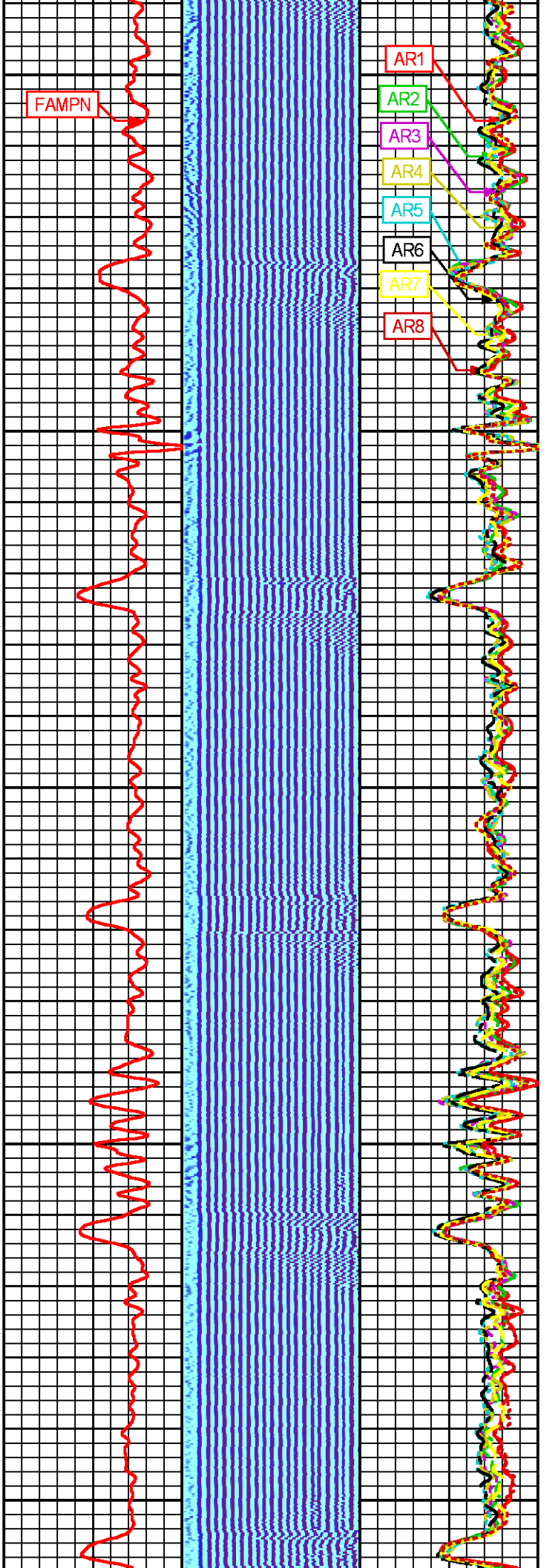
CURVE MEASURE POINT OFFSET

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 : cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/ral_all+01-SECONDARY-RAL_MN_321-5.fvpdf [5"/100' Scale]
Plot Interval : 16.5 - 9744.25 Feet

Data File 1 : F1 : cpu6728:/dat1a/TEP_YOUBERG_RU_321_7/RAL_MN_321.xtf
Created On : Oct 21 17:23:19 2016
Company : TEP ROCKY MOUNTAIN LLC
Well : YOUBERG RU 321-7
Field : RULISON
File Interval : 15.5 - 9745.5 Feet
OCT : n012g

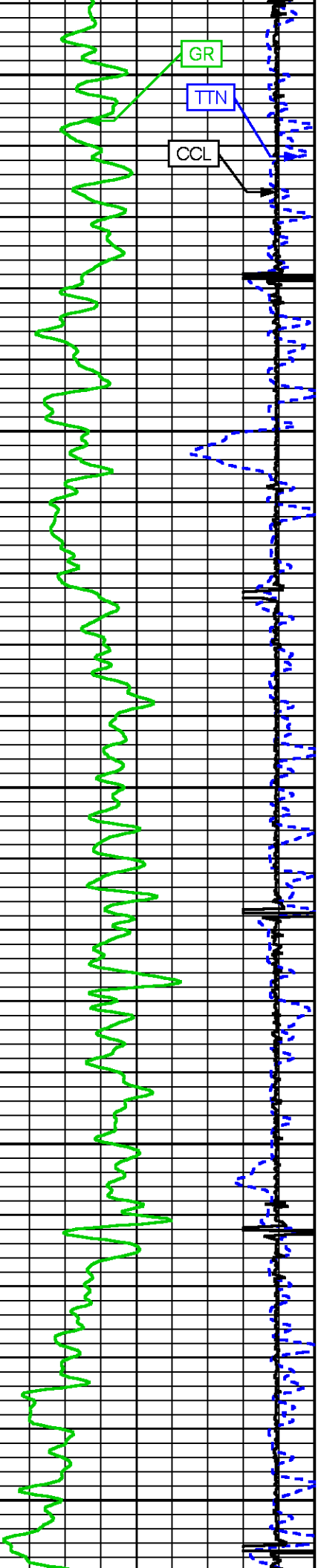


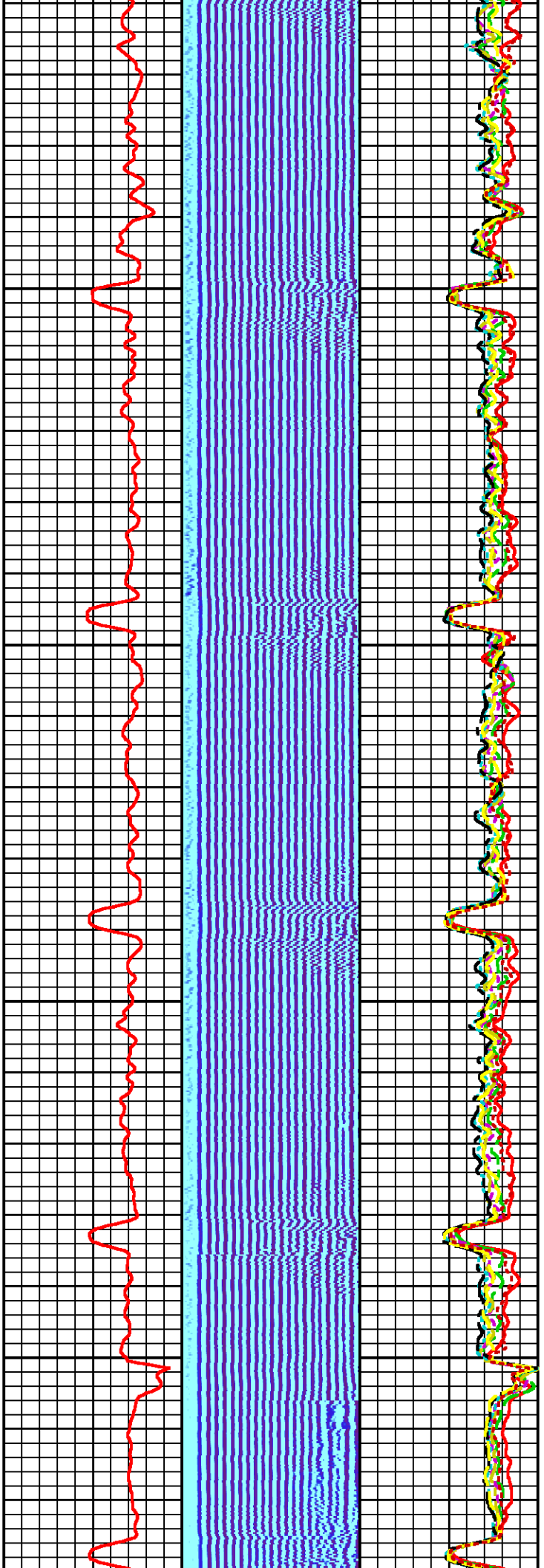


100

200

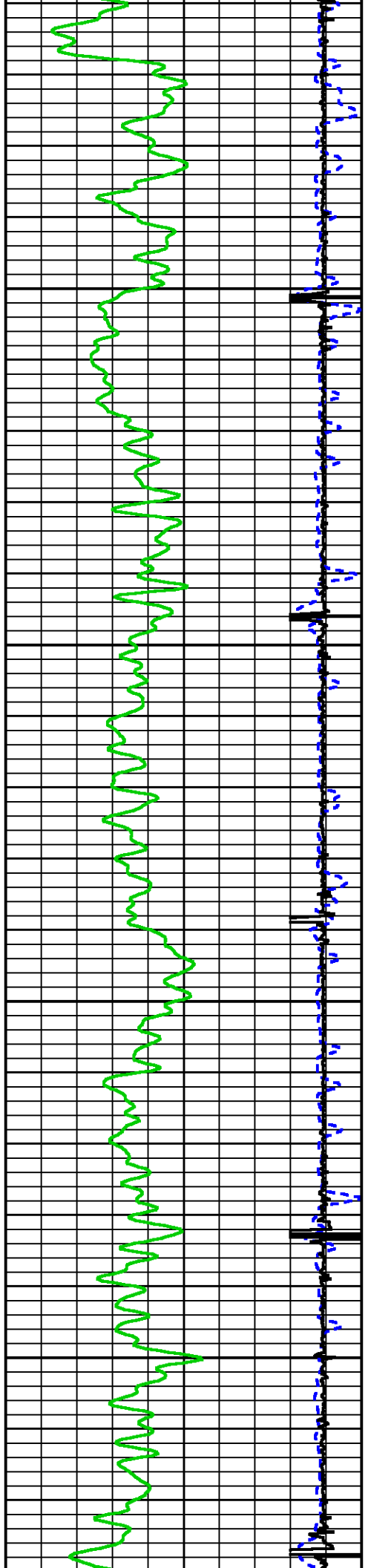
300

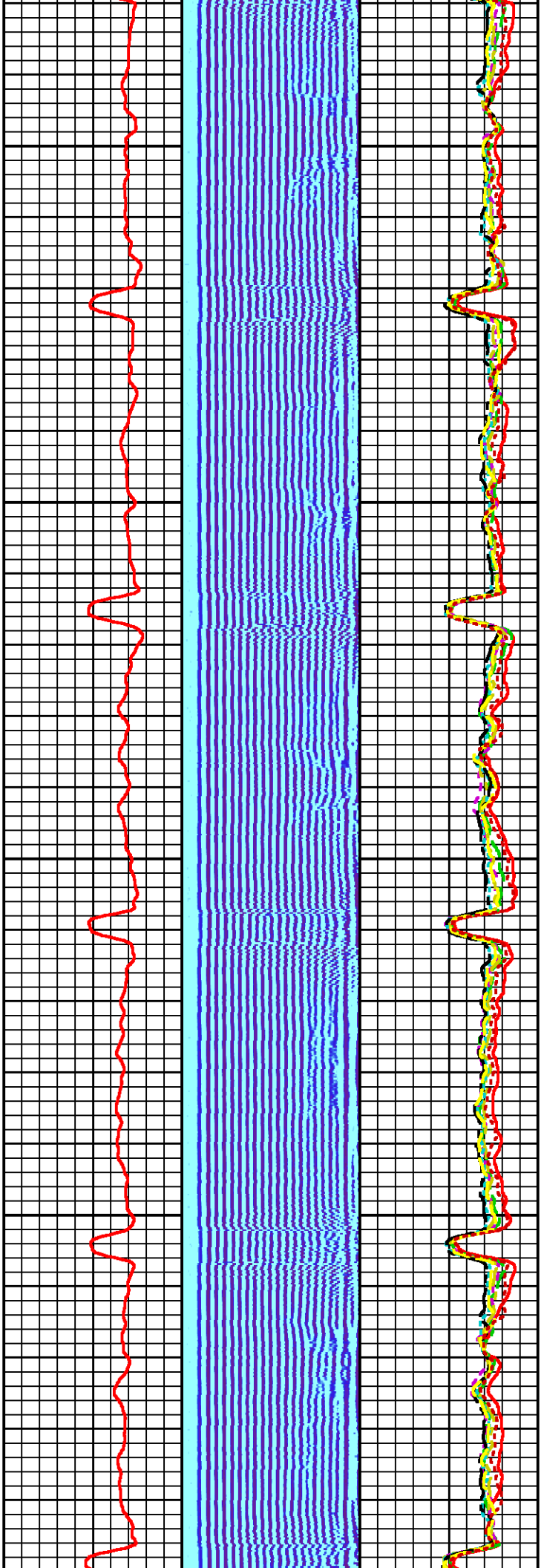




400

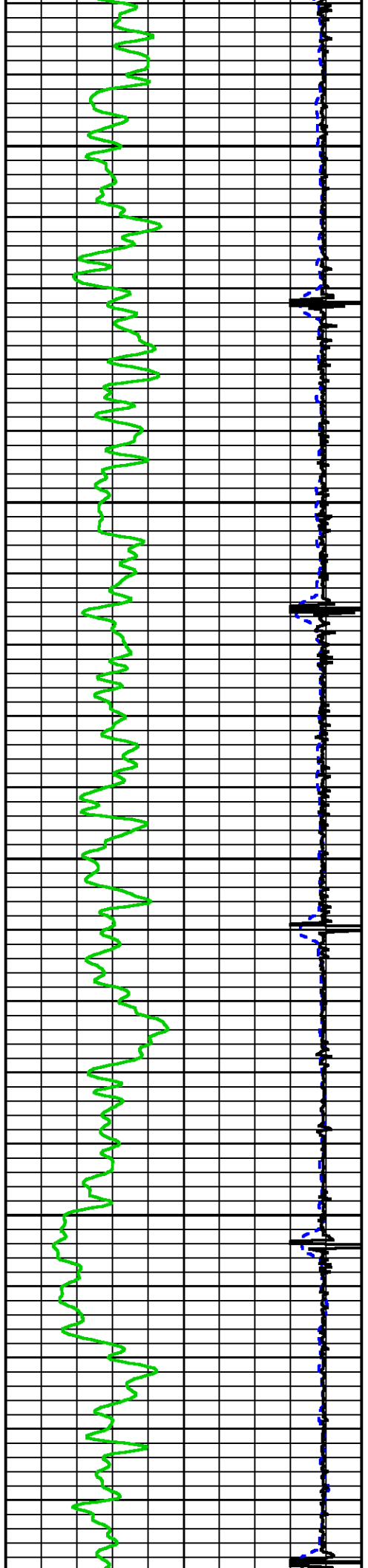
500

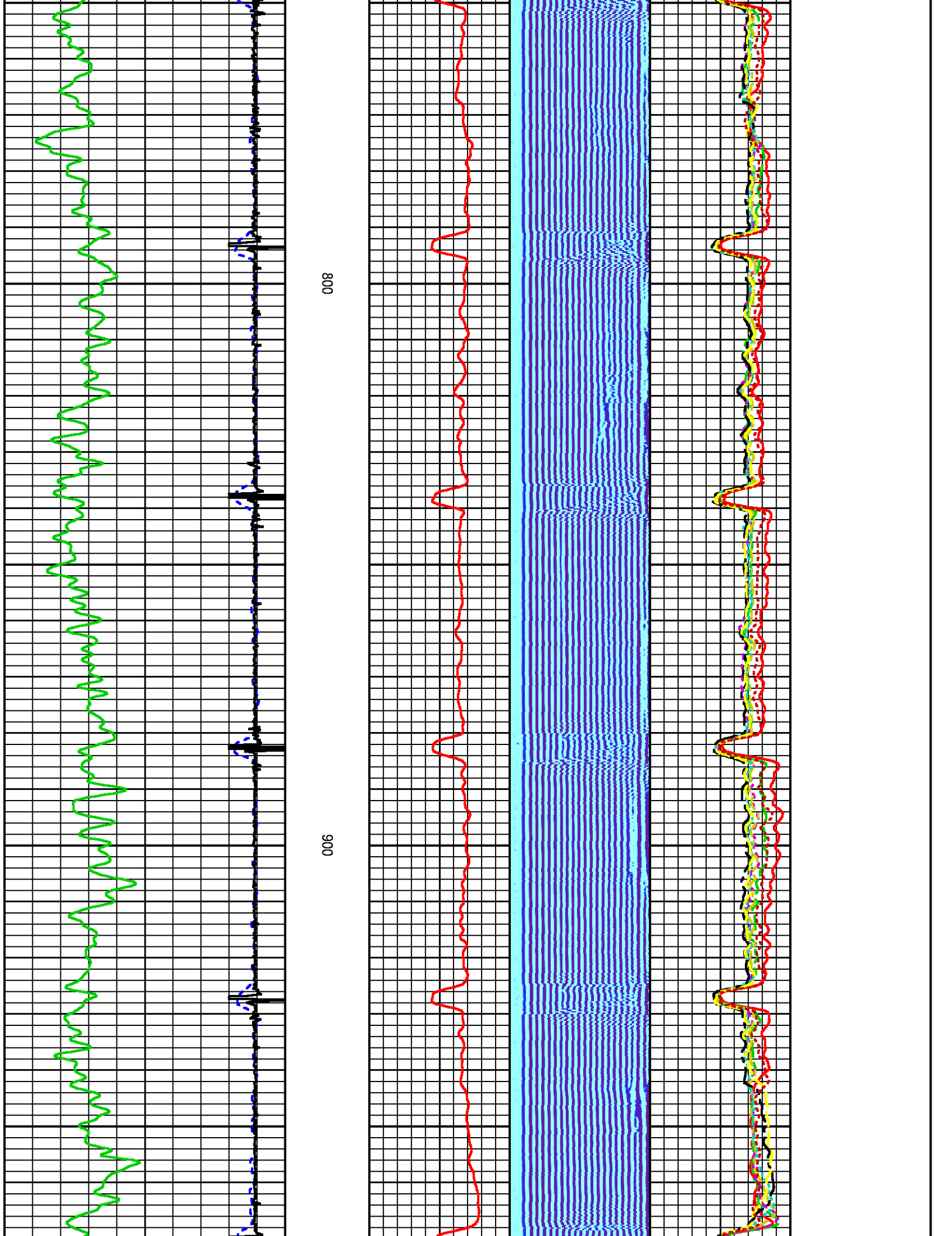


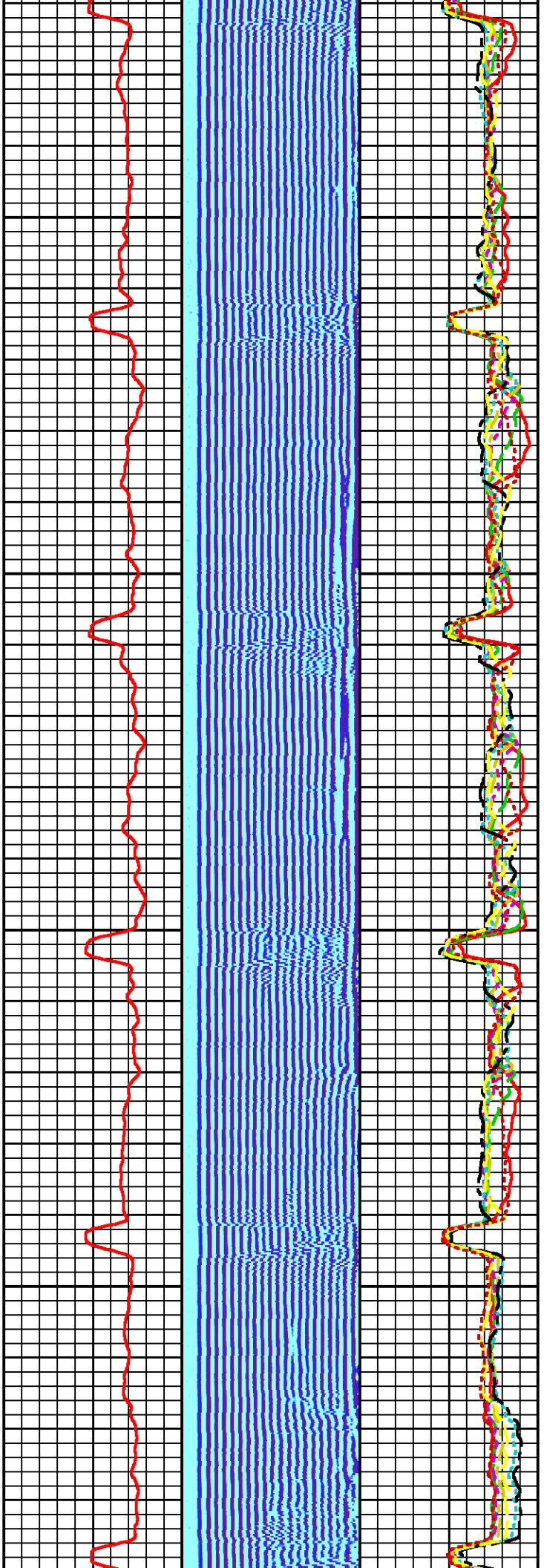


600

700

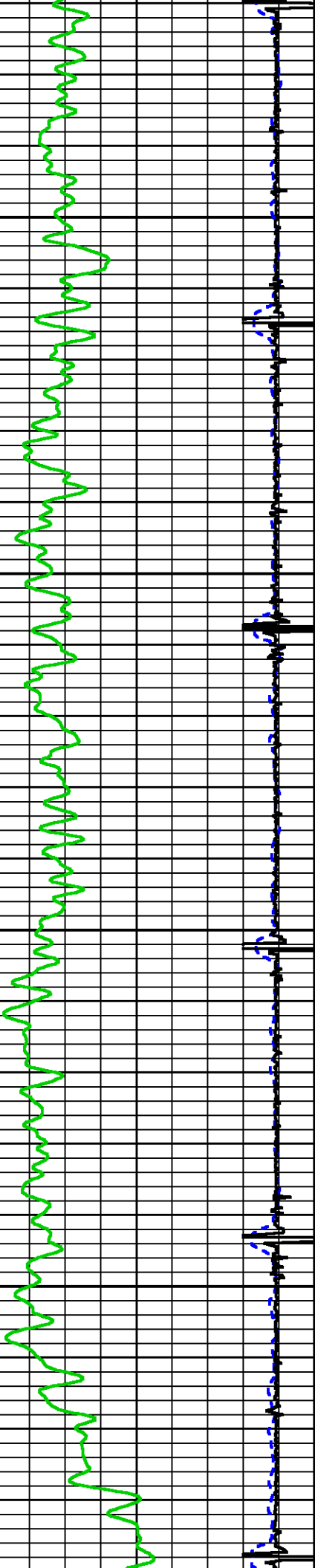


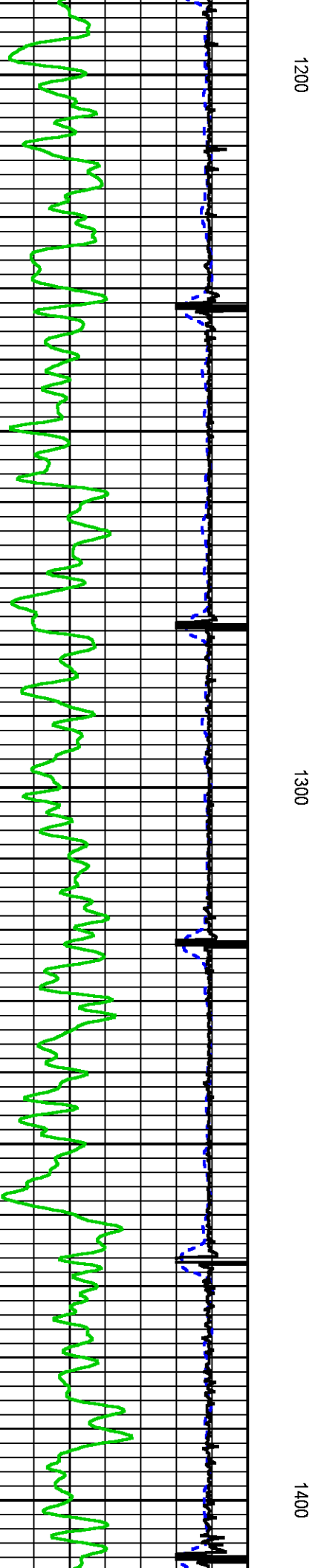
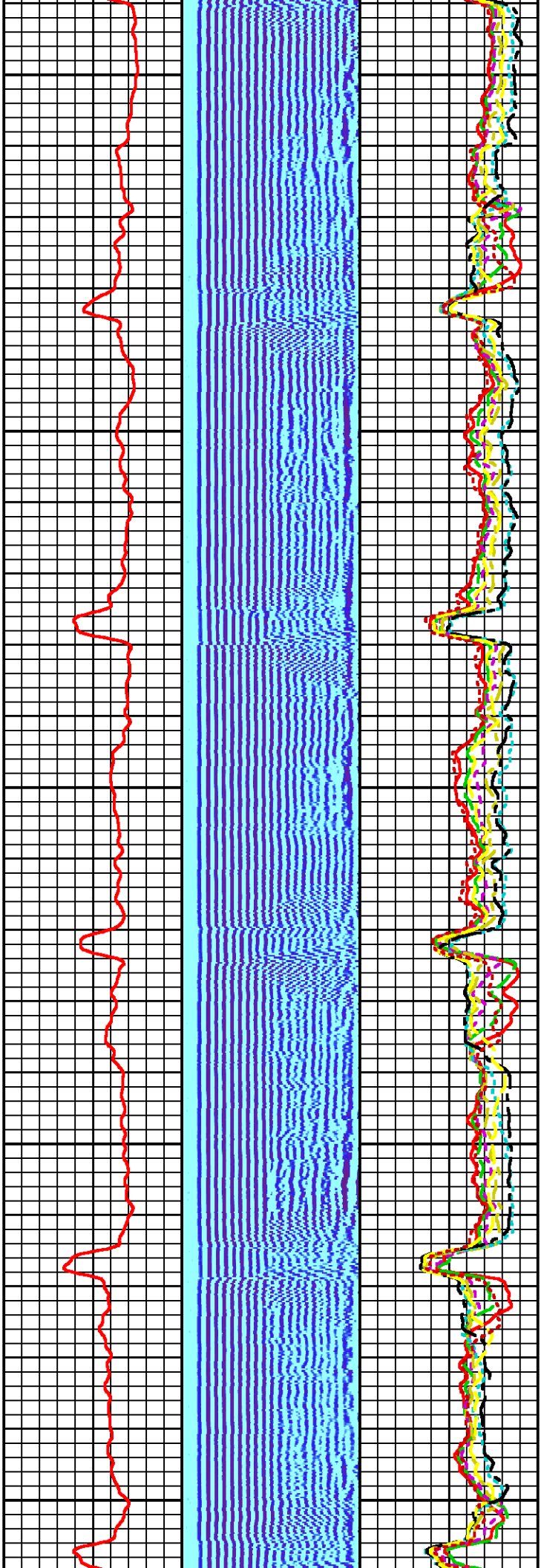


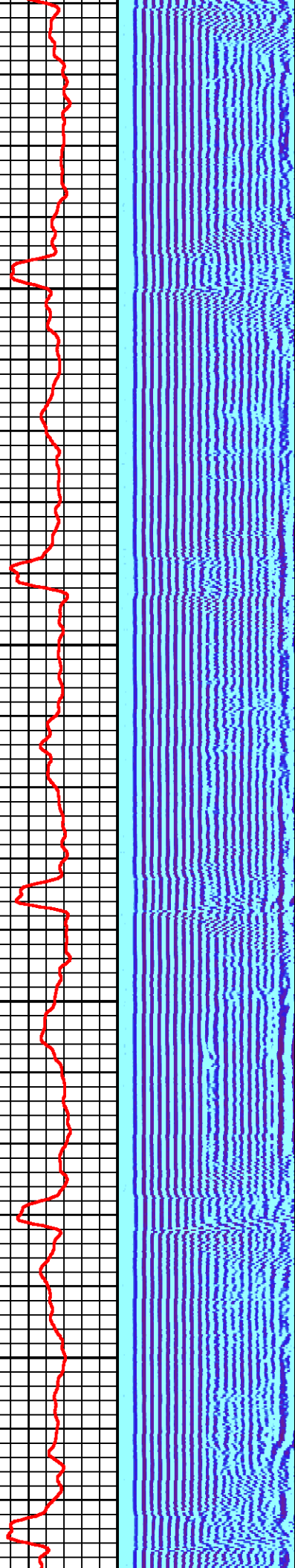
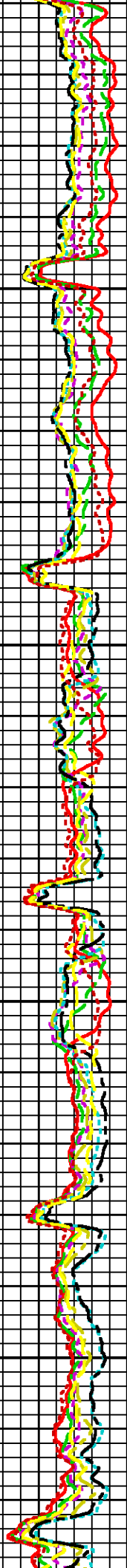


1000

1100

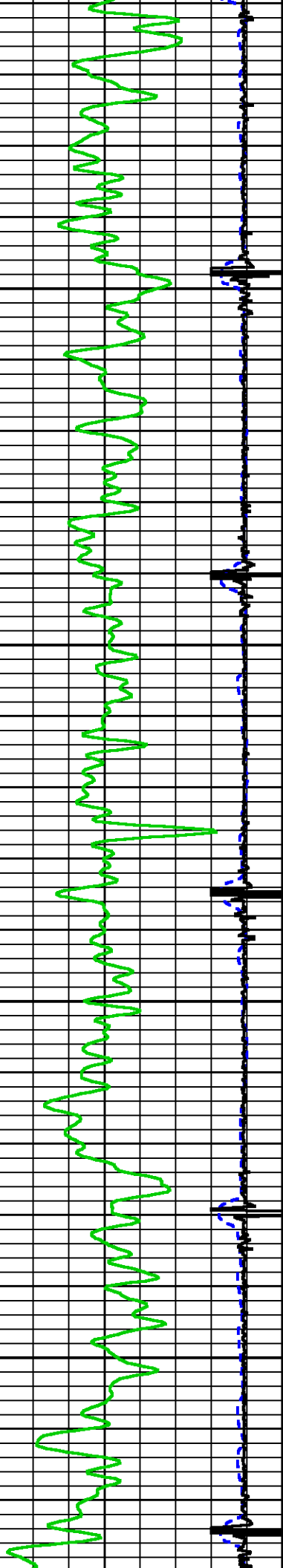


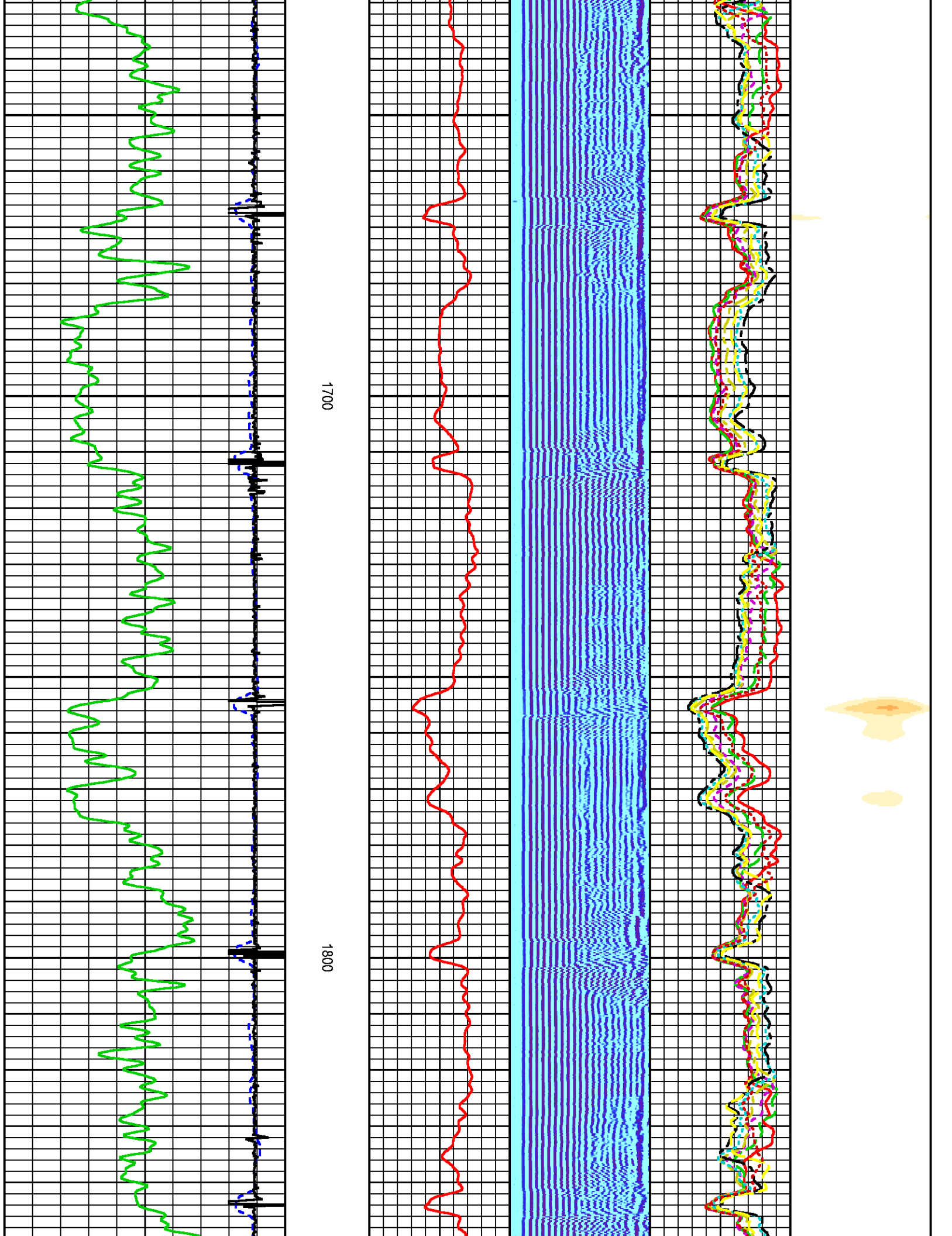


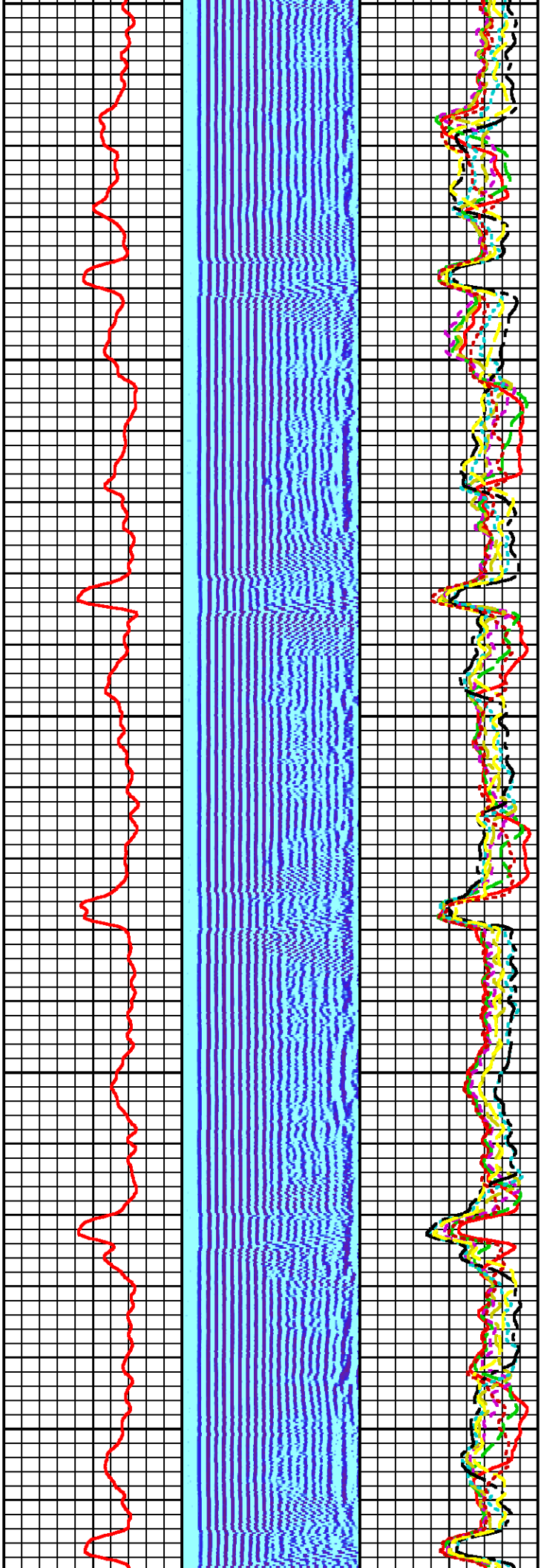


1500

1600

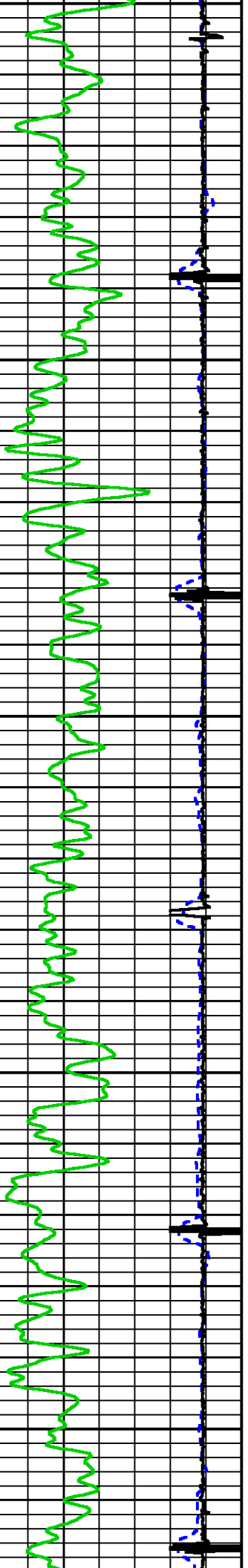


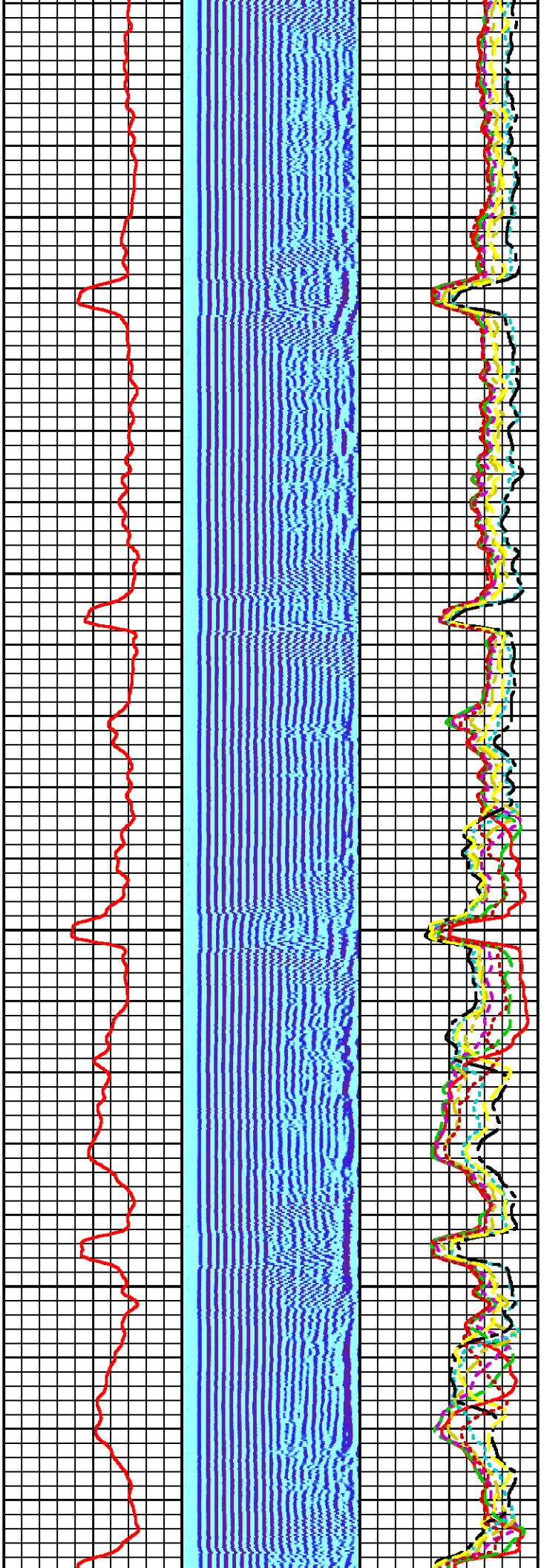




1900

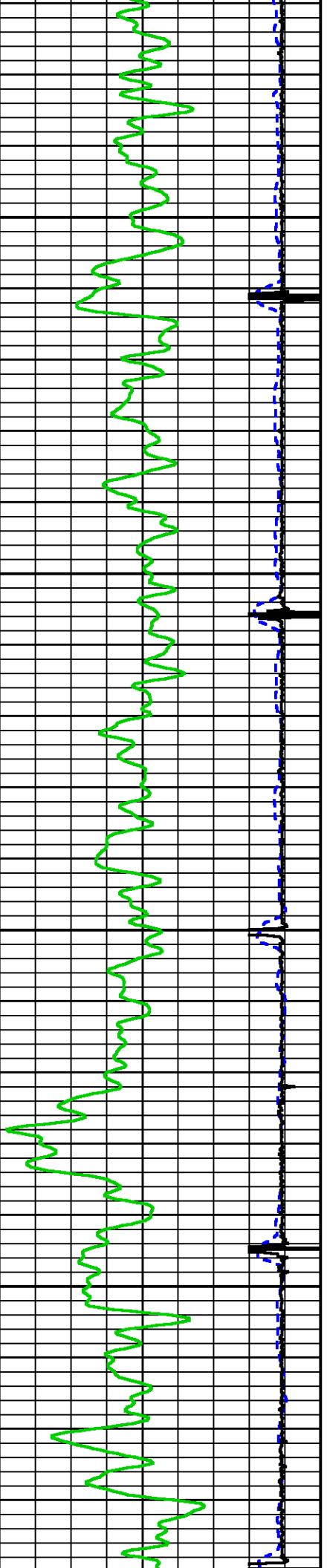
2000

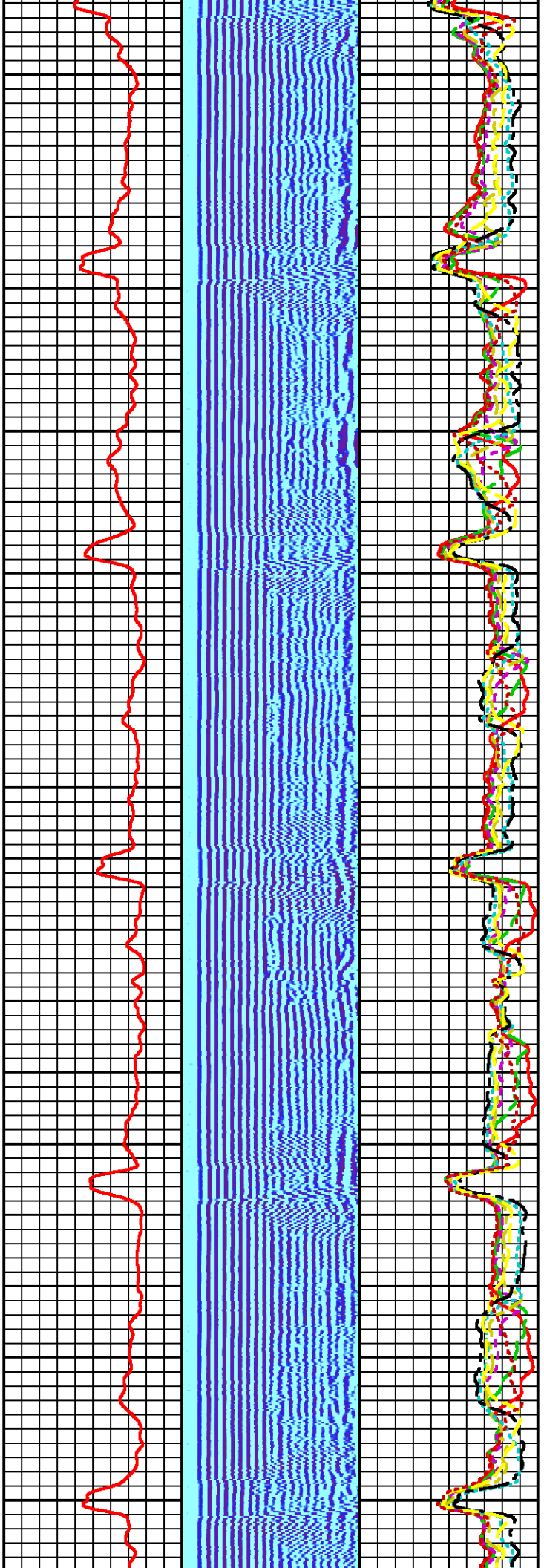




2100

2200

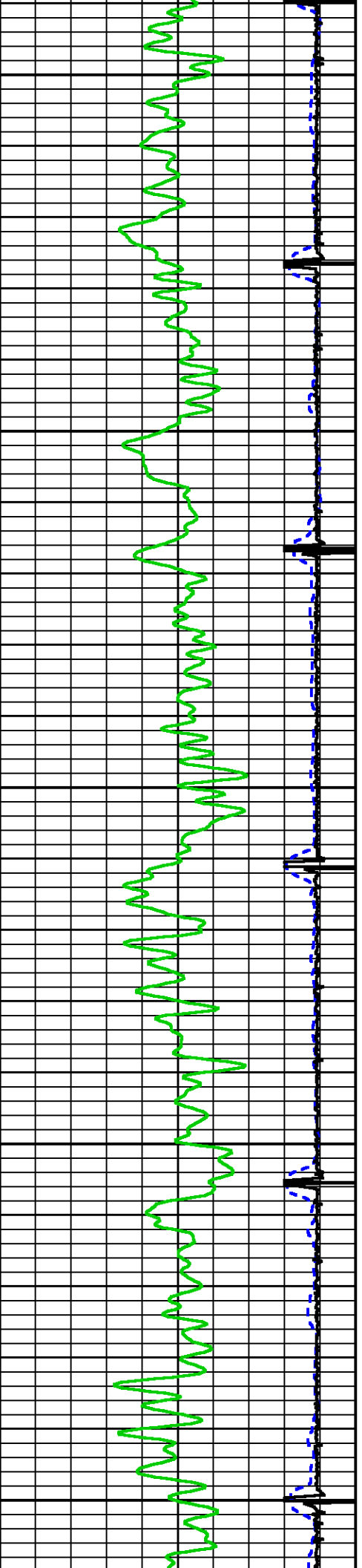


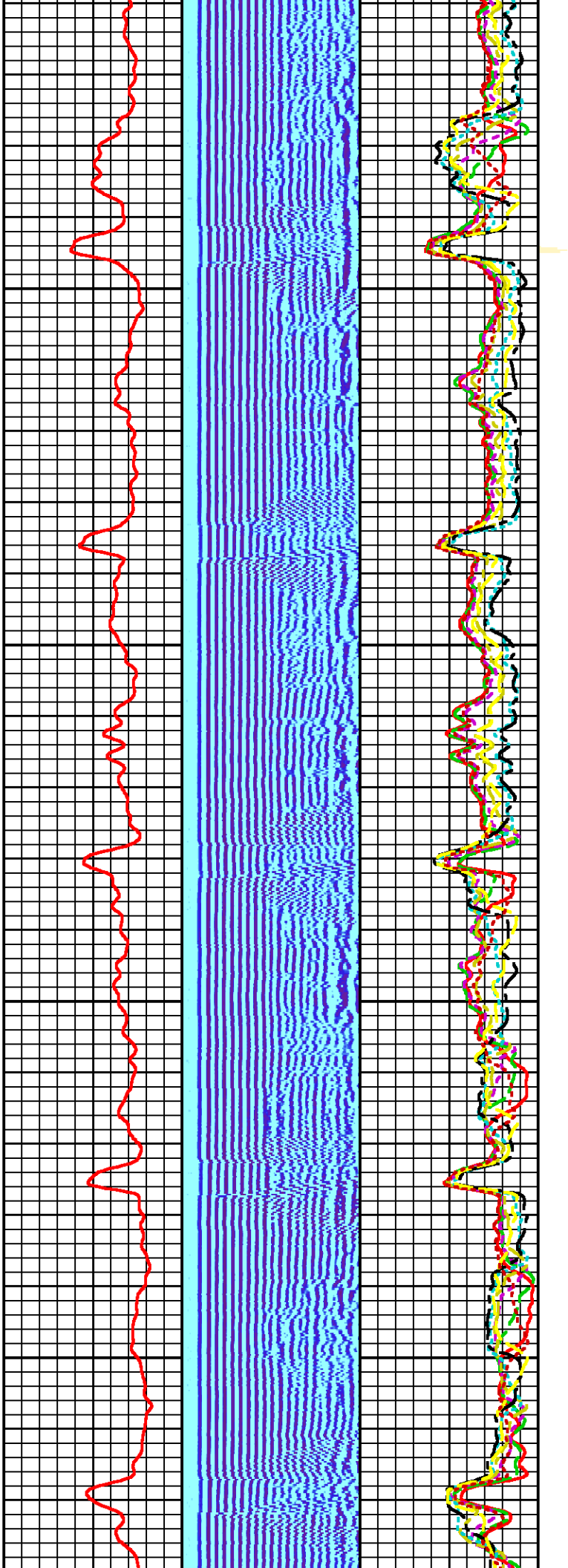


2300

2400

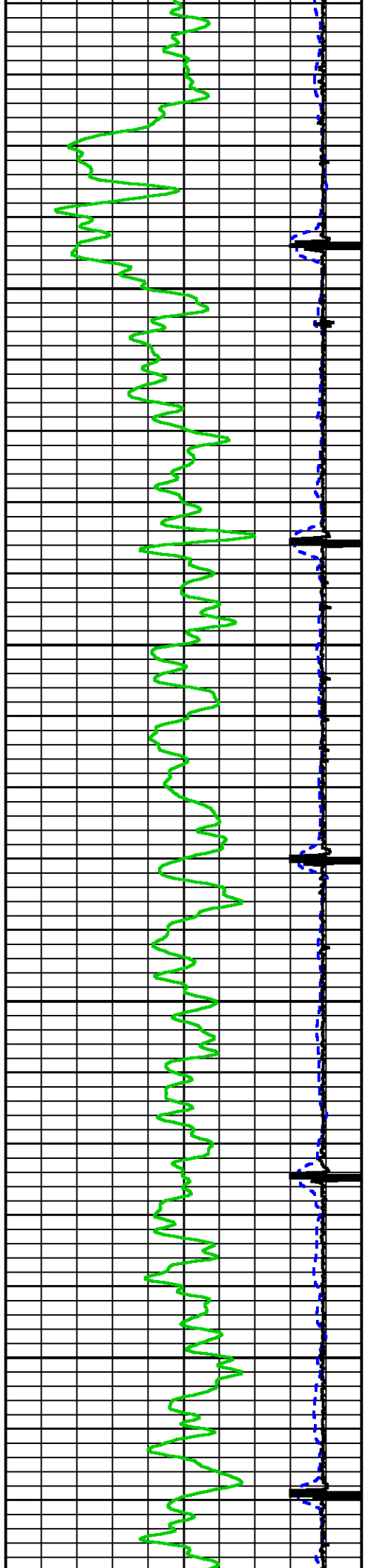
2500

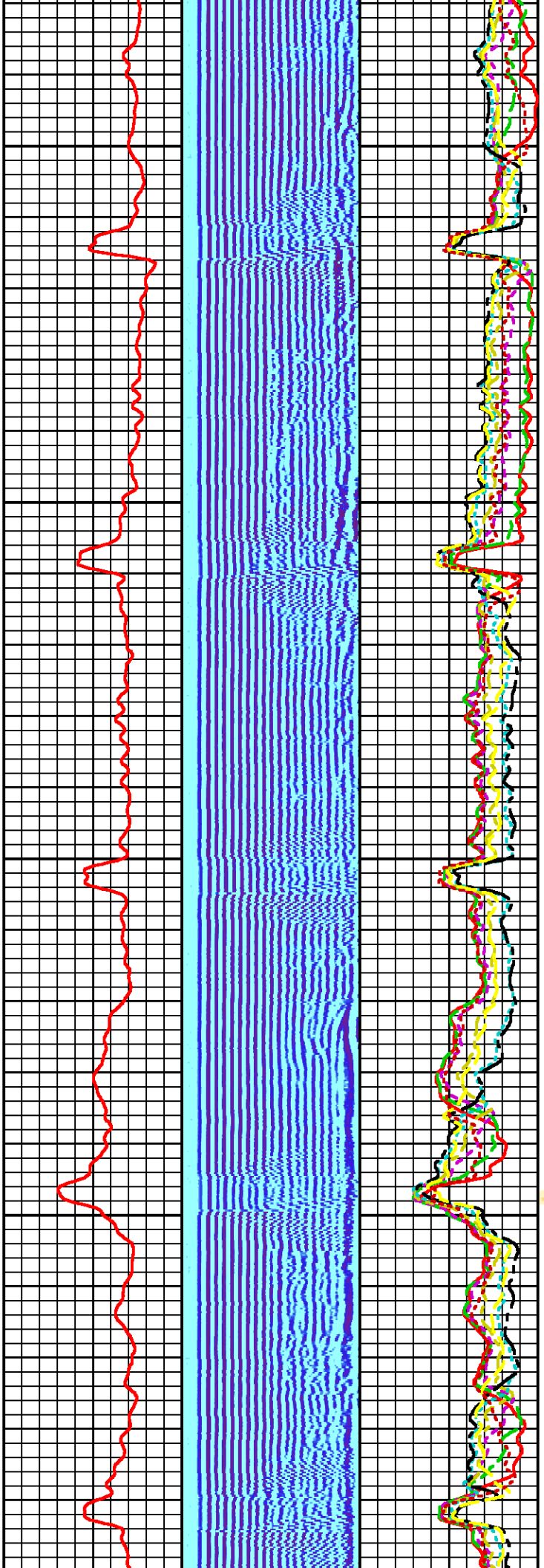




2600

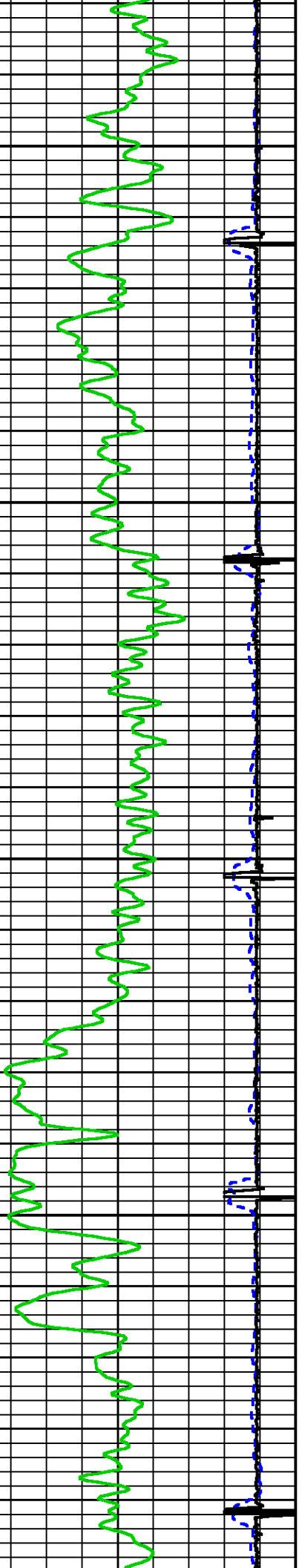
2700

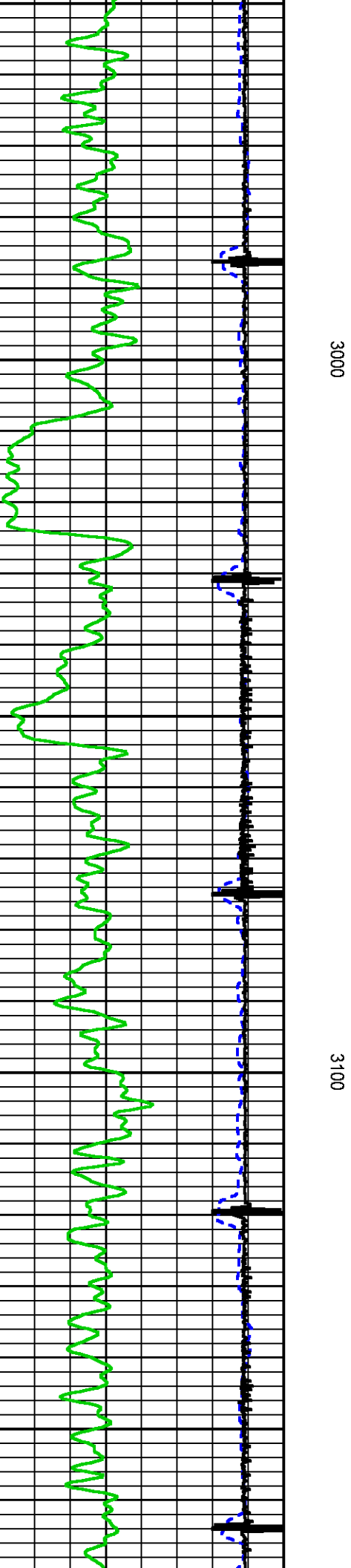
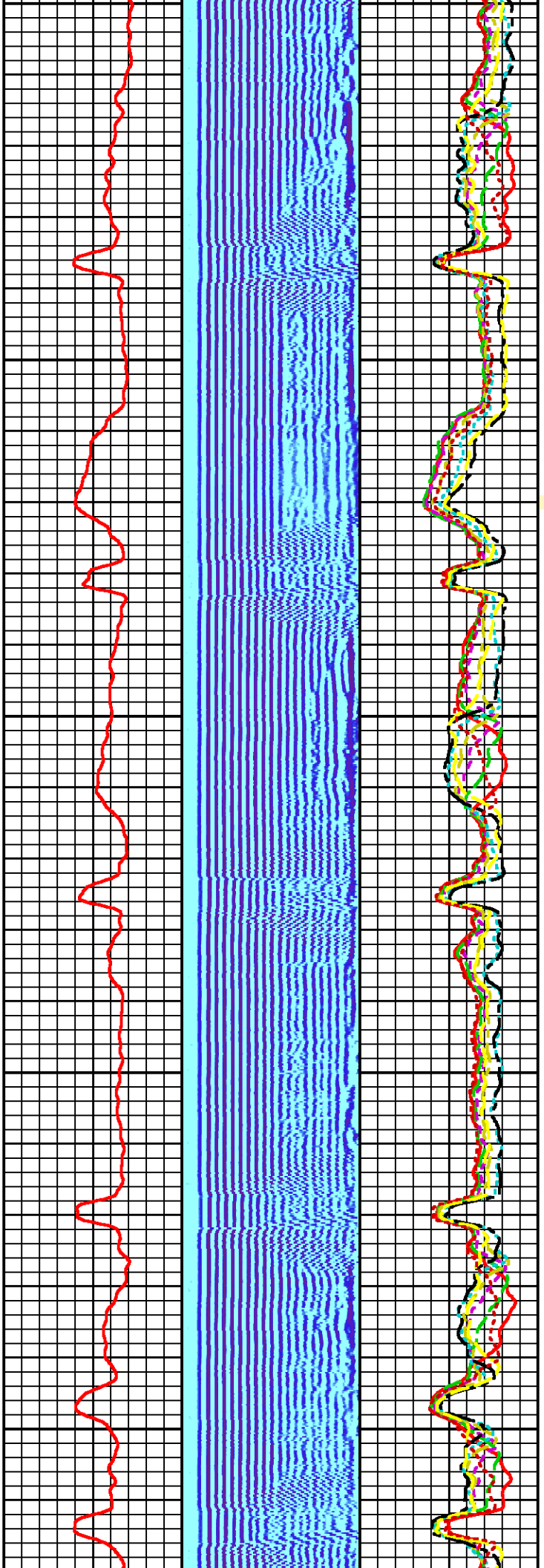


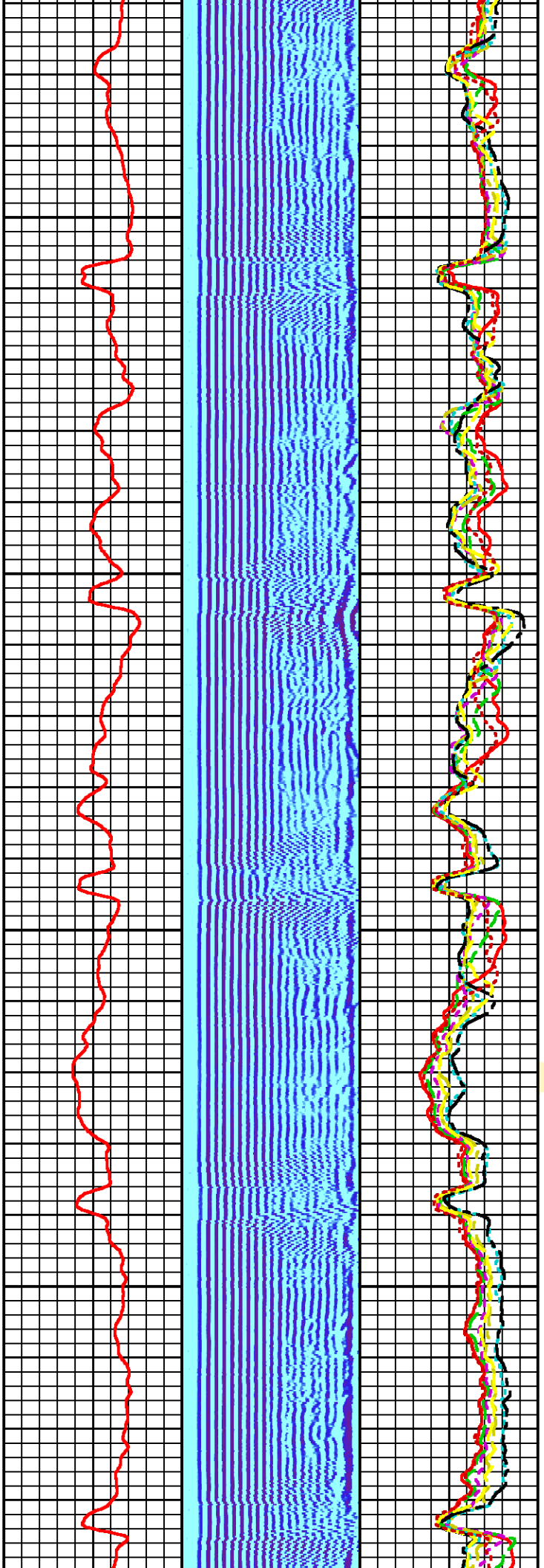


2800

2900

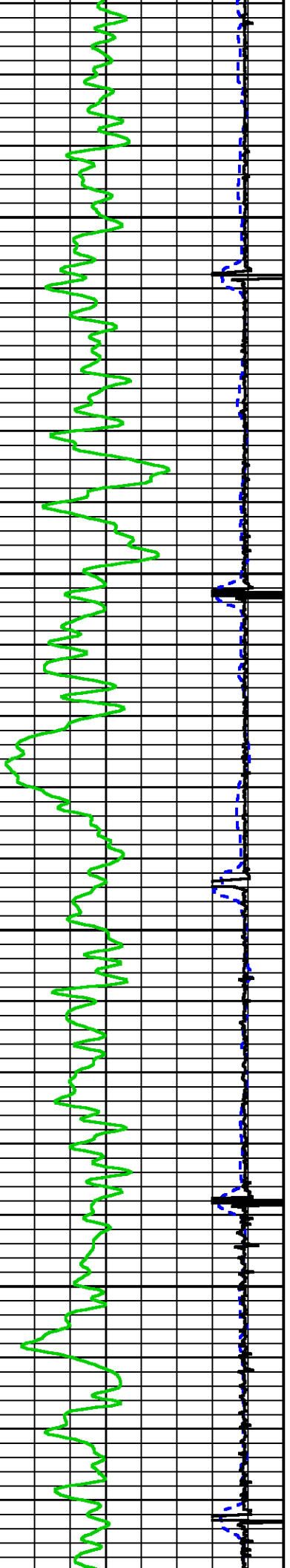


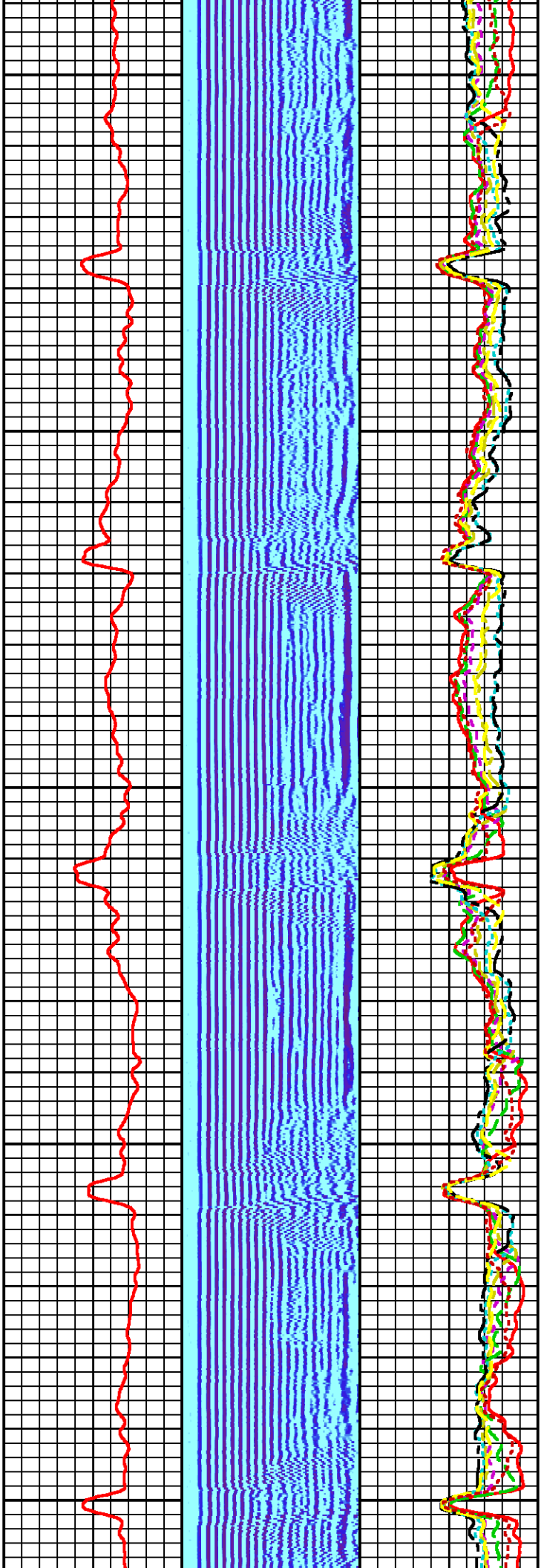




3200

3300

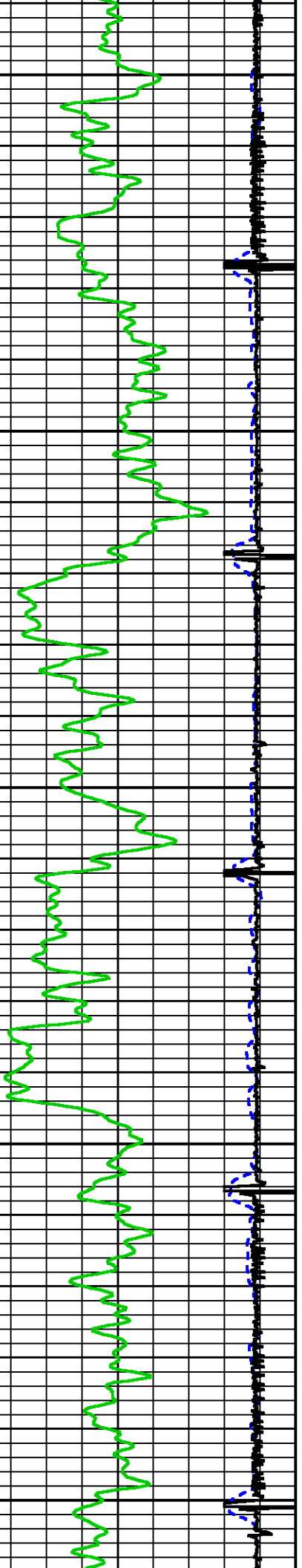


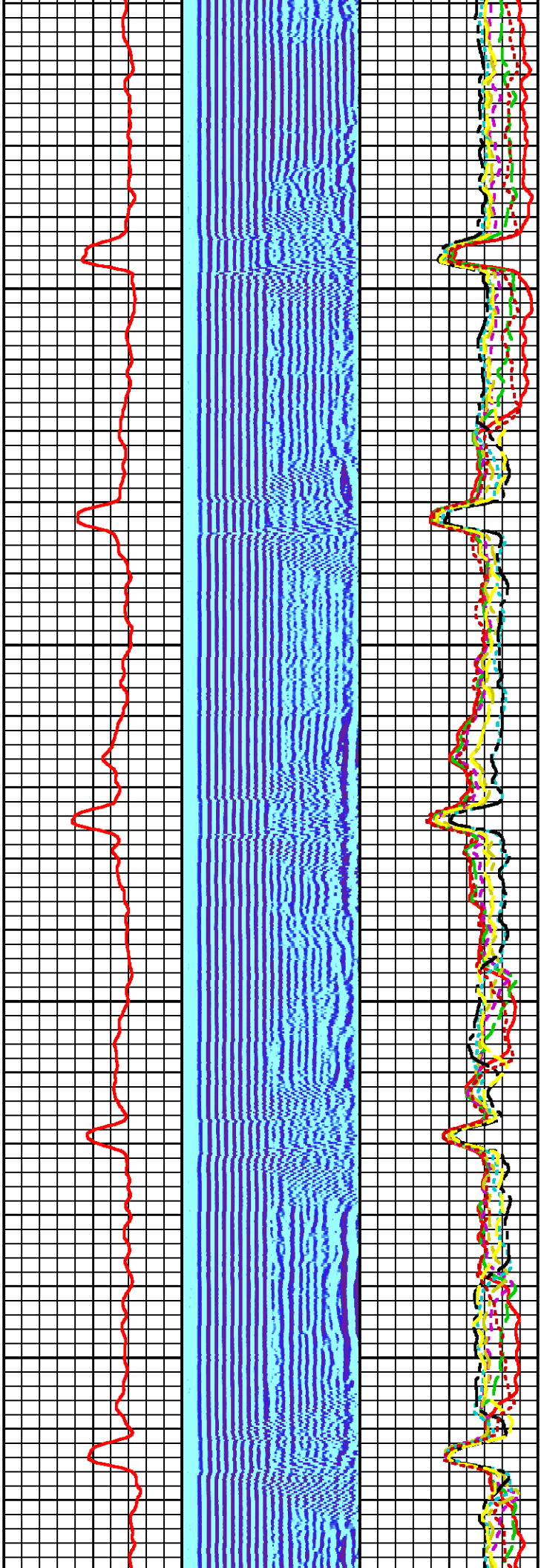


3400

3500

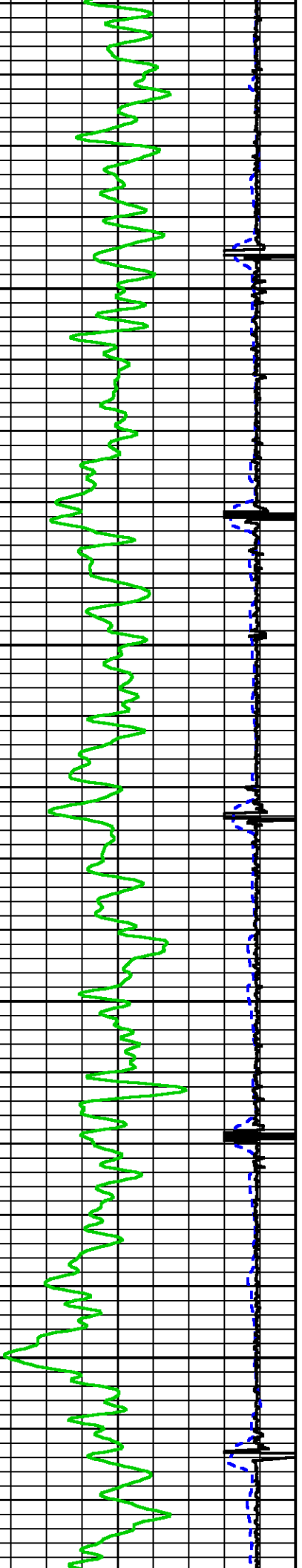
3600

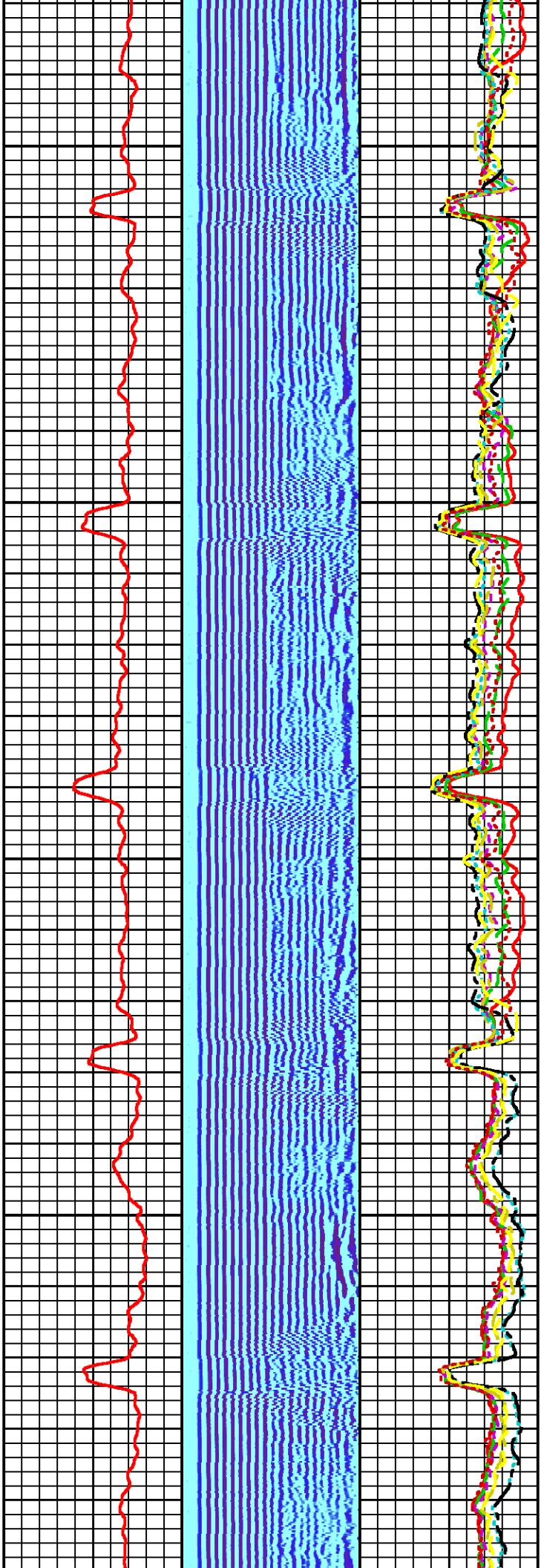




3700

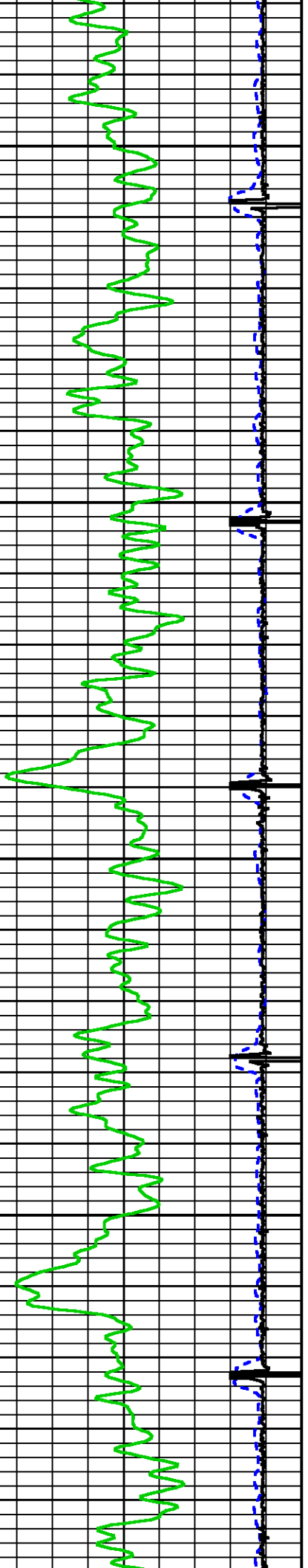
3800

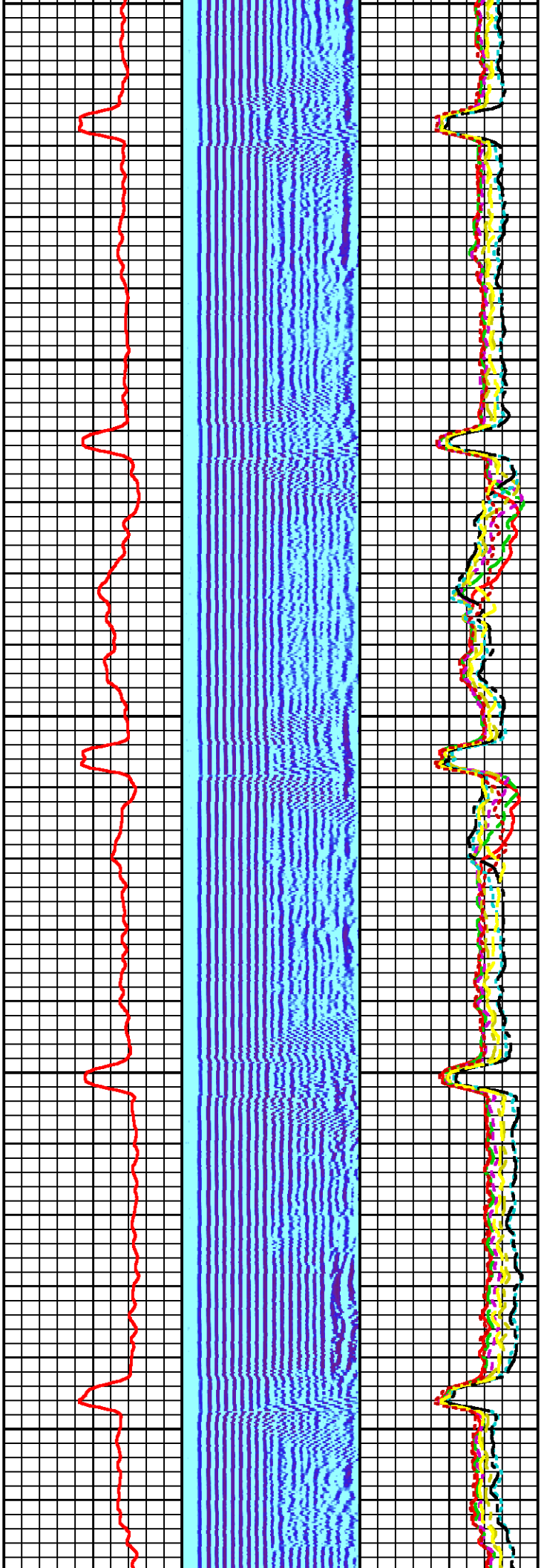




3900

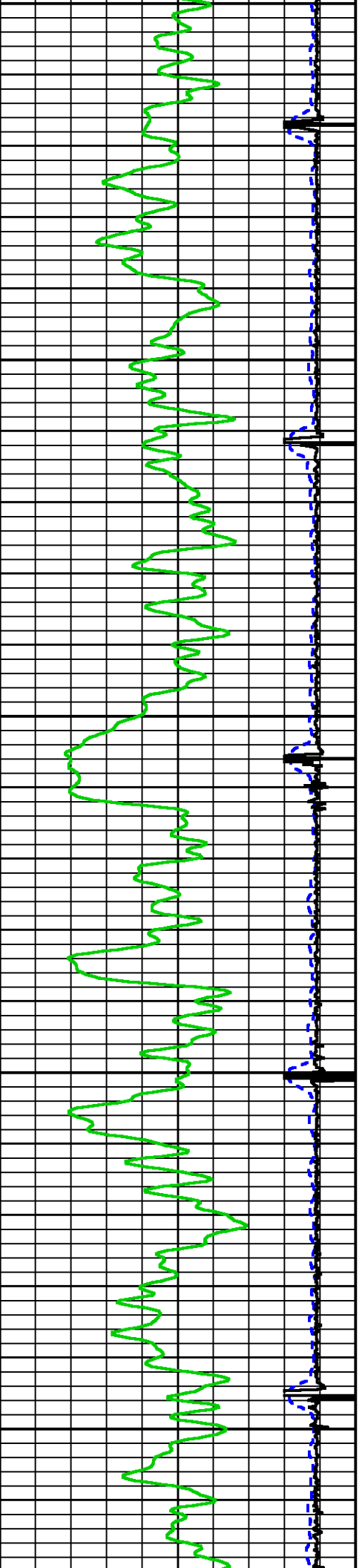
4000

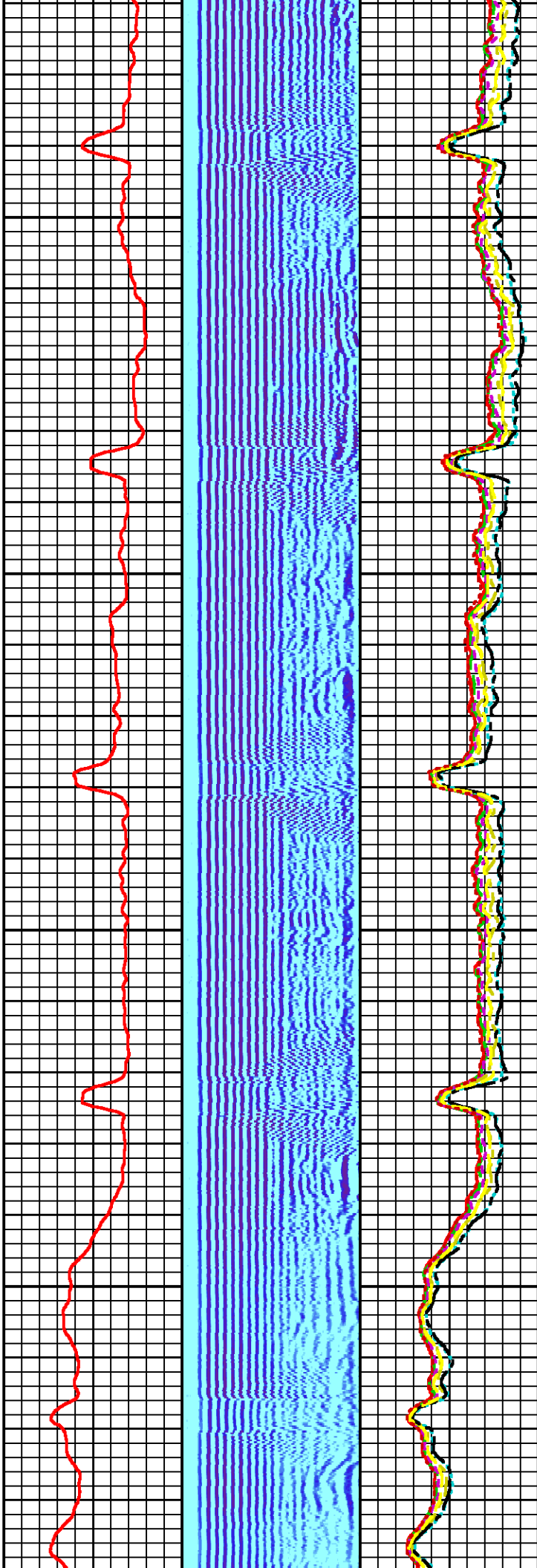
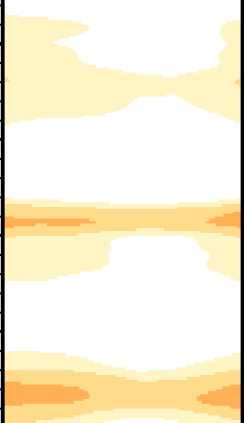




4100

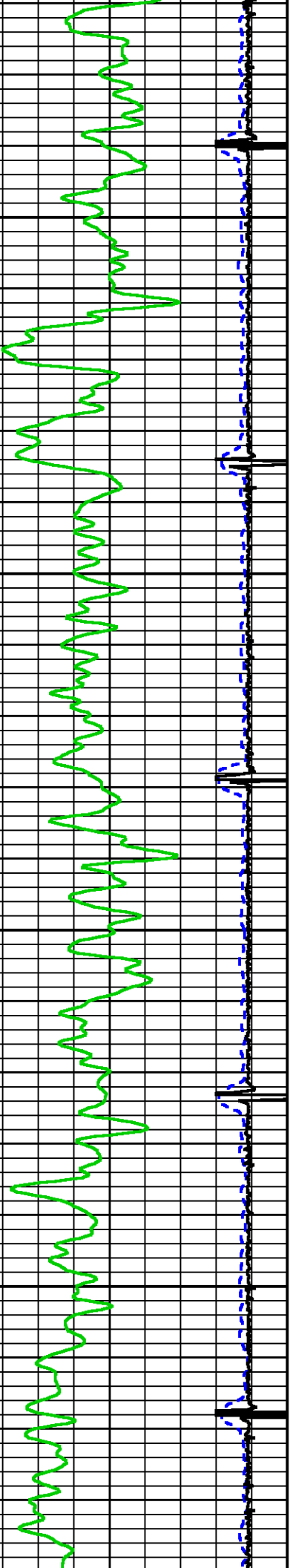
4200

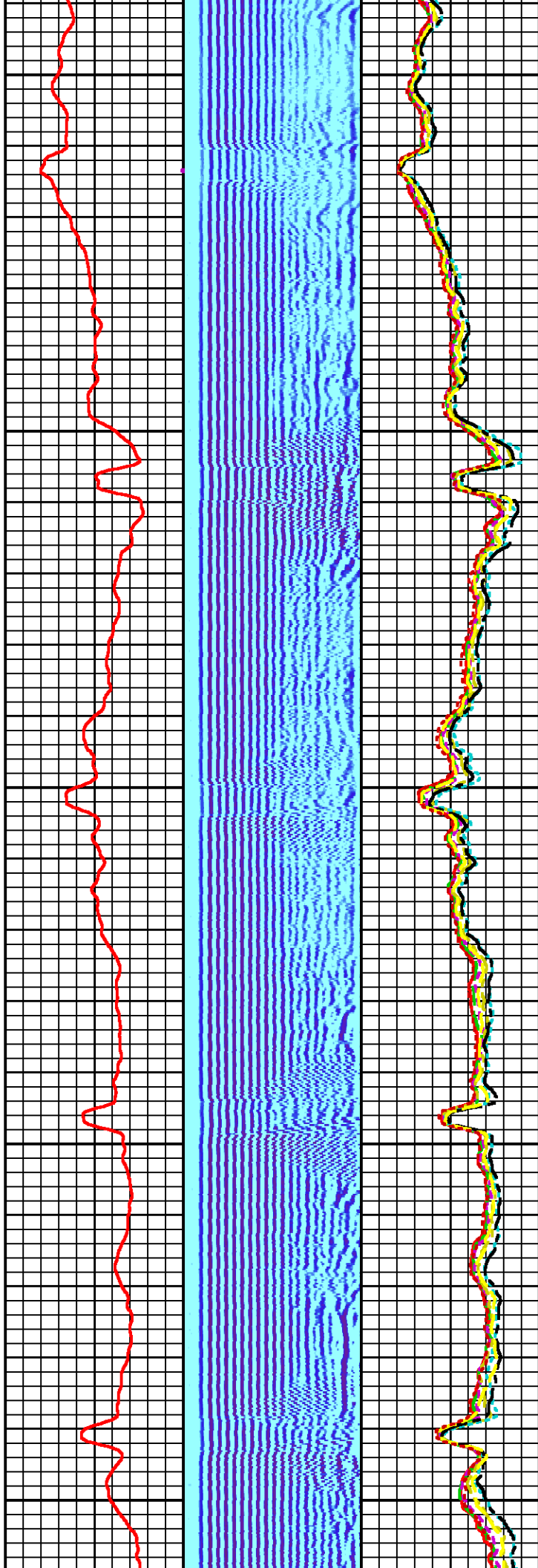
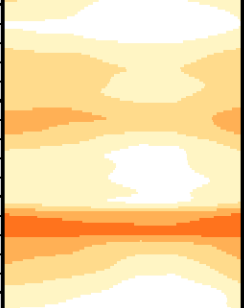




4300

4400

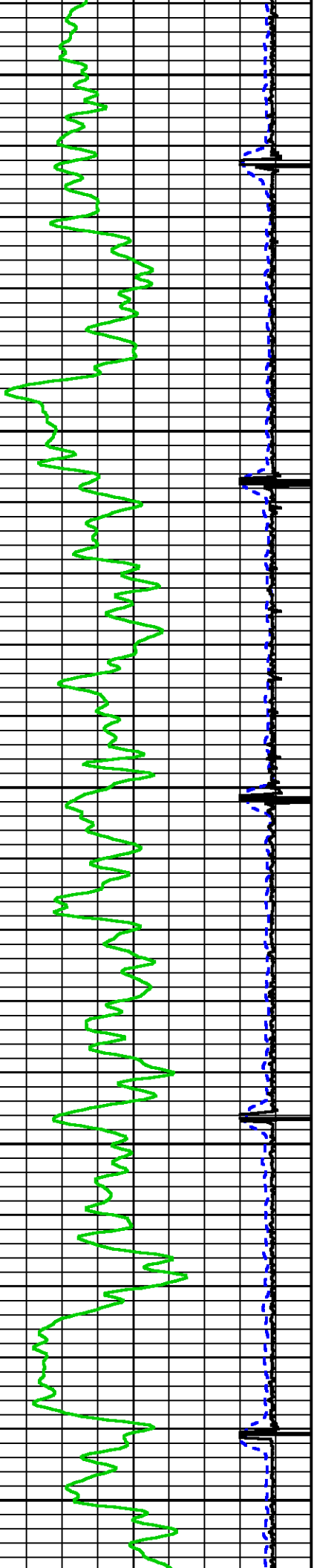


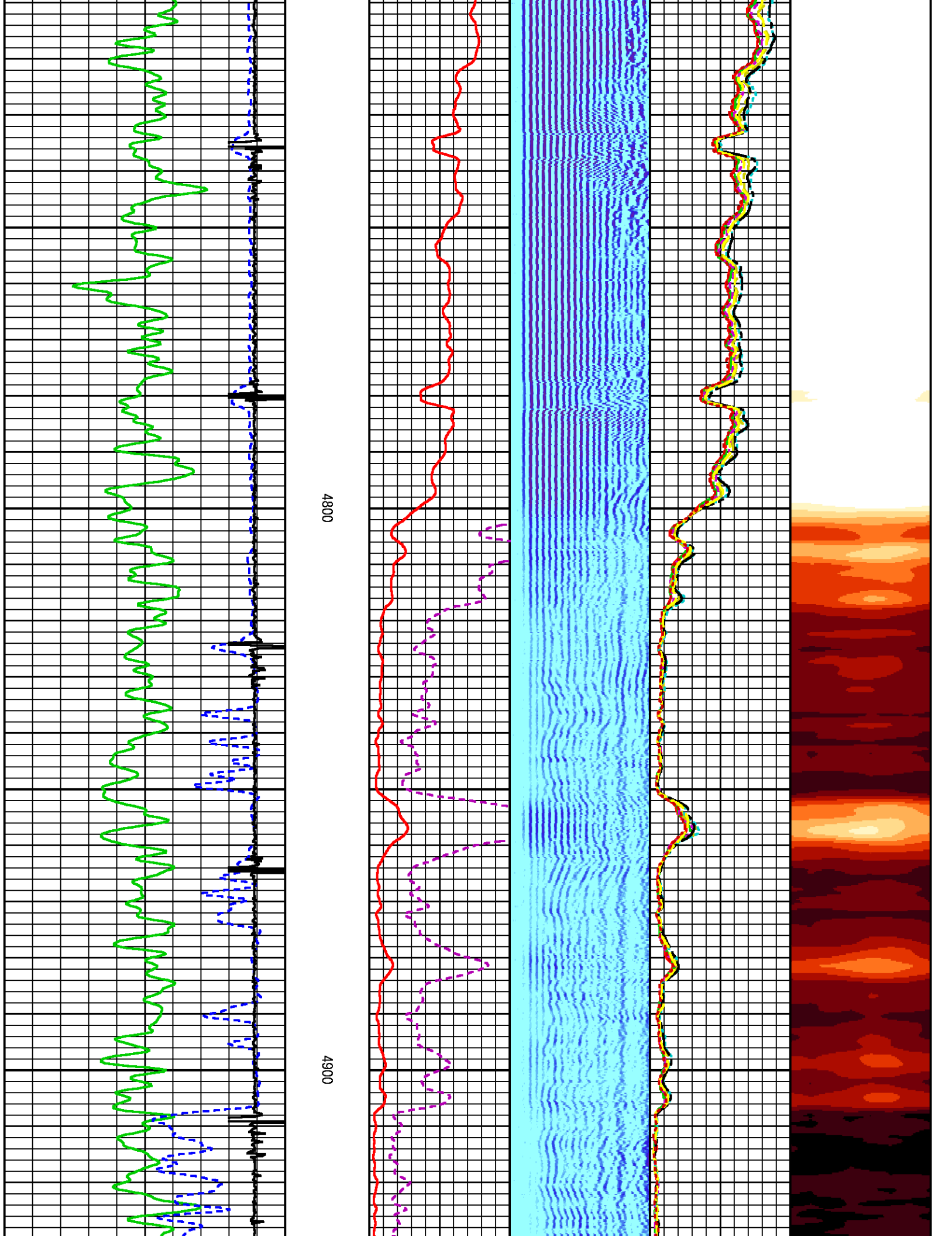


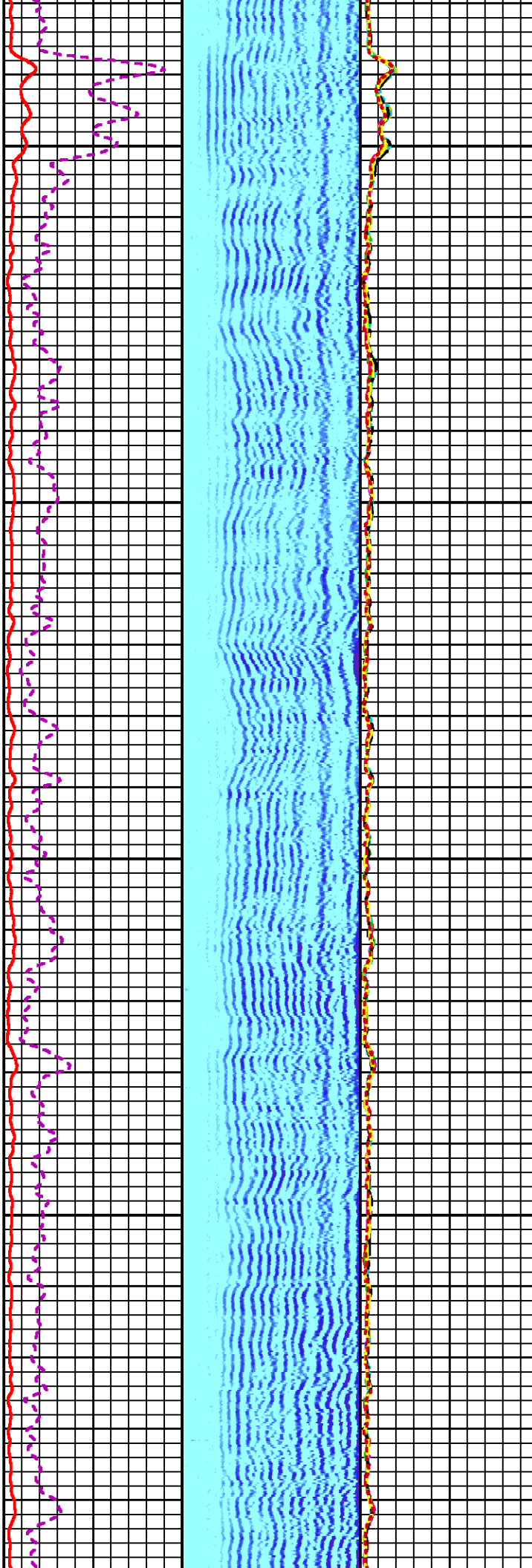
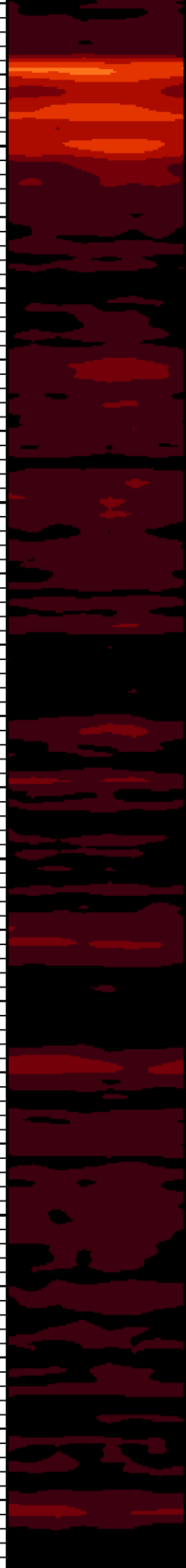
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4600

4700

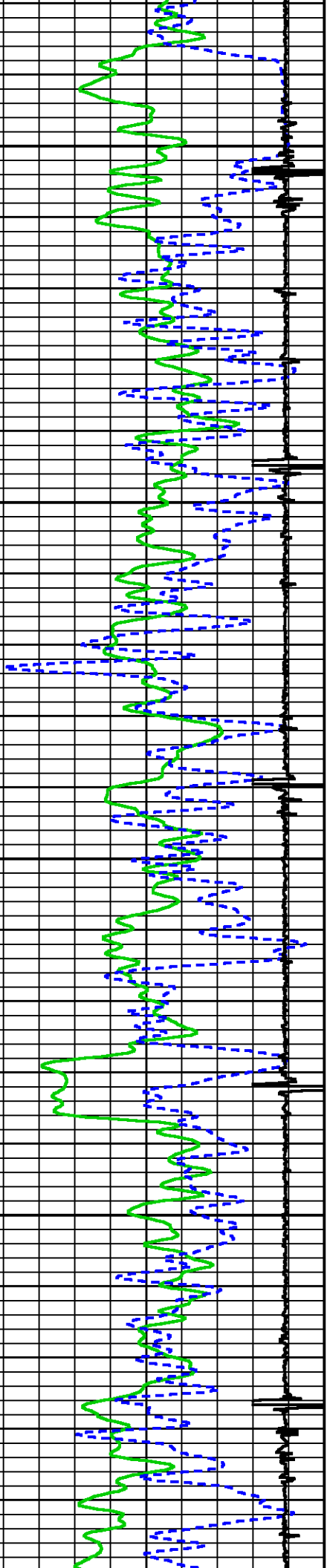


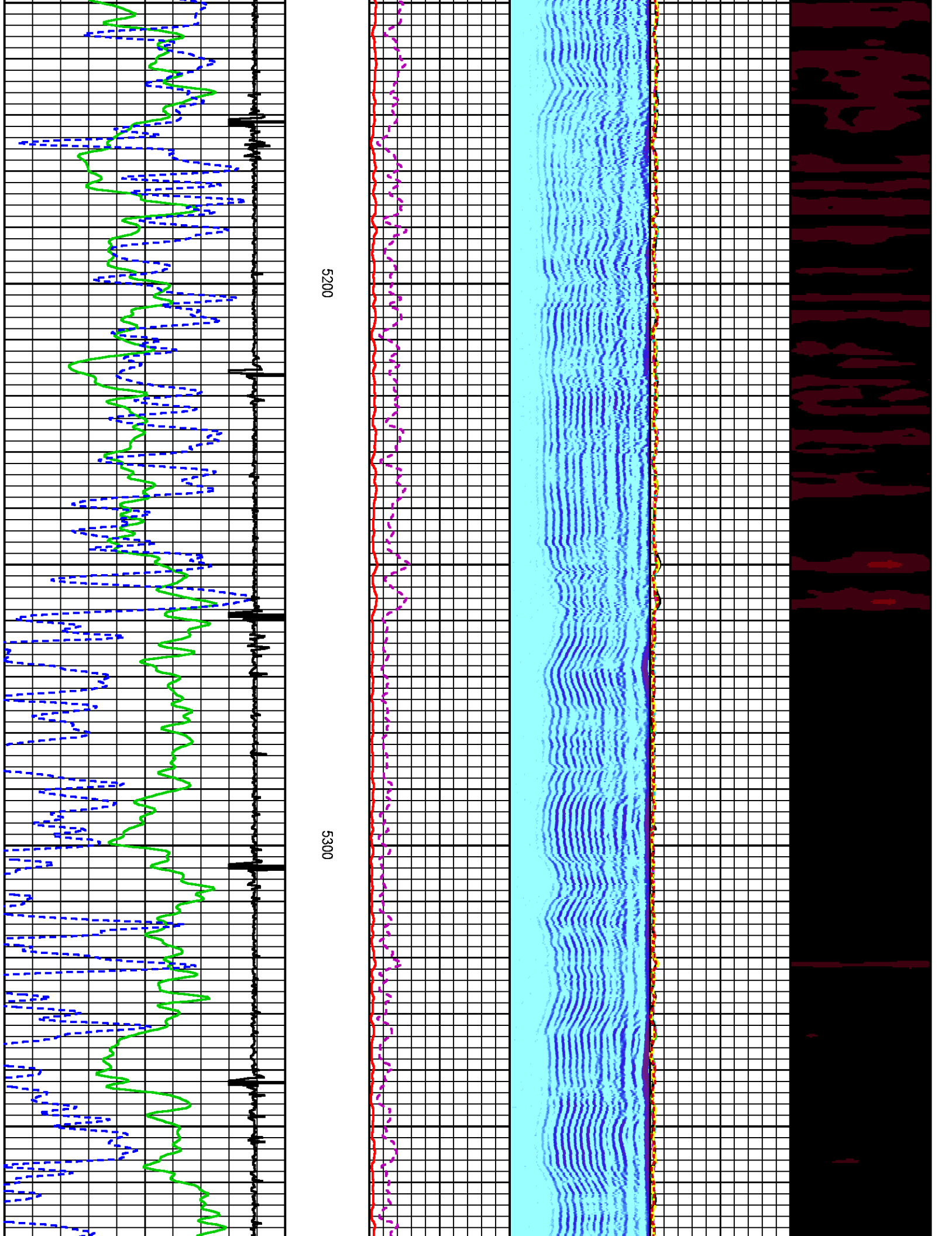


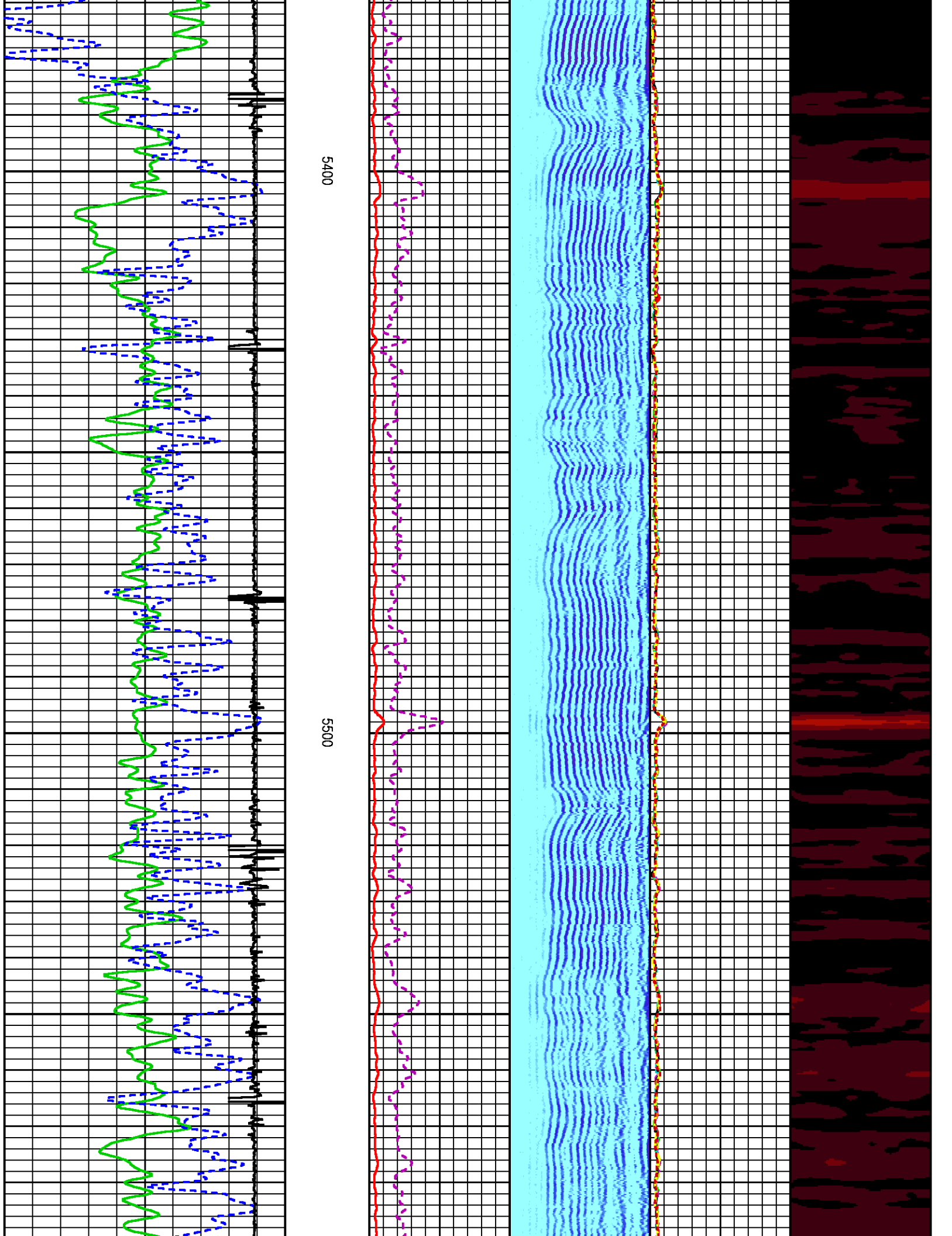


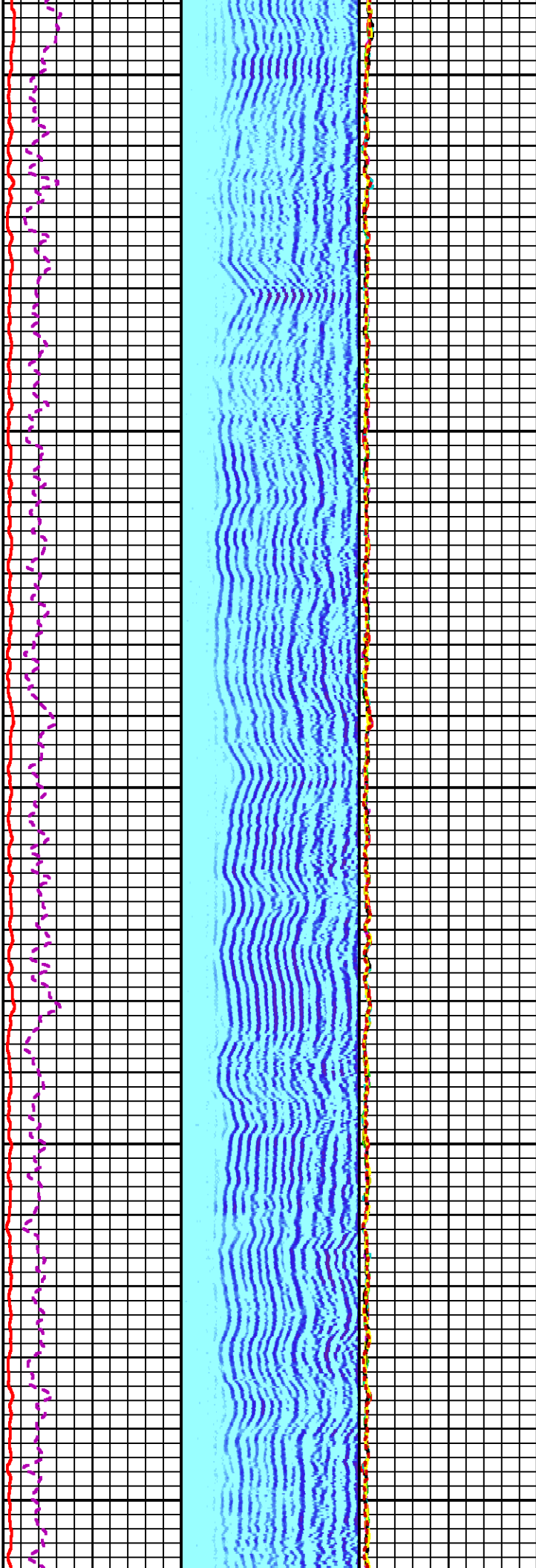
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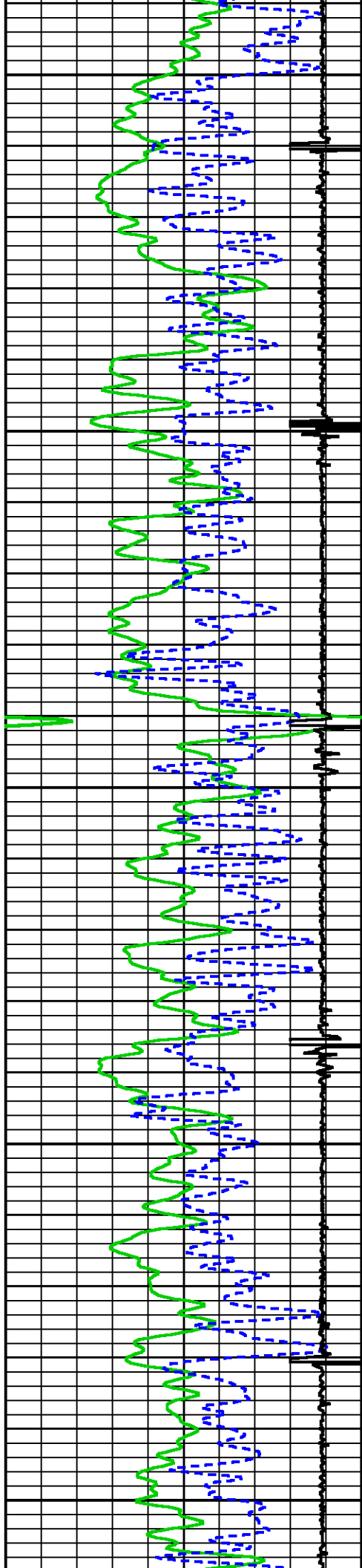


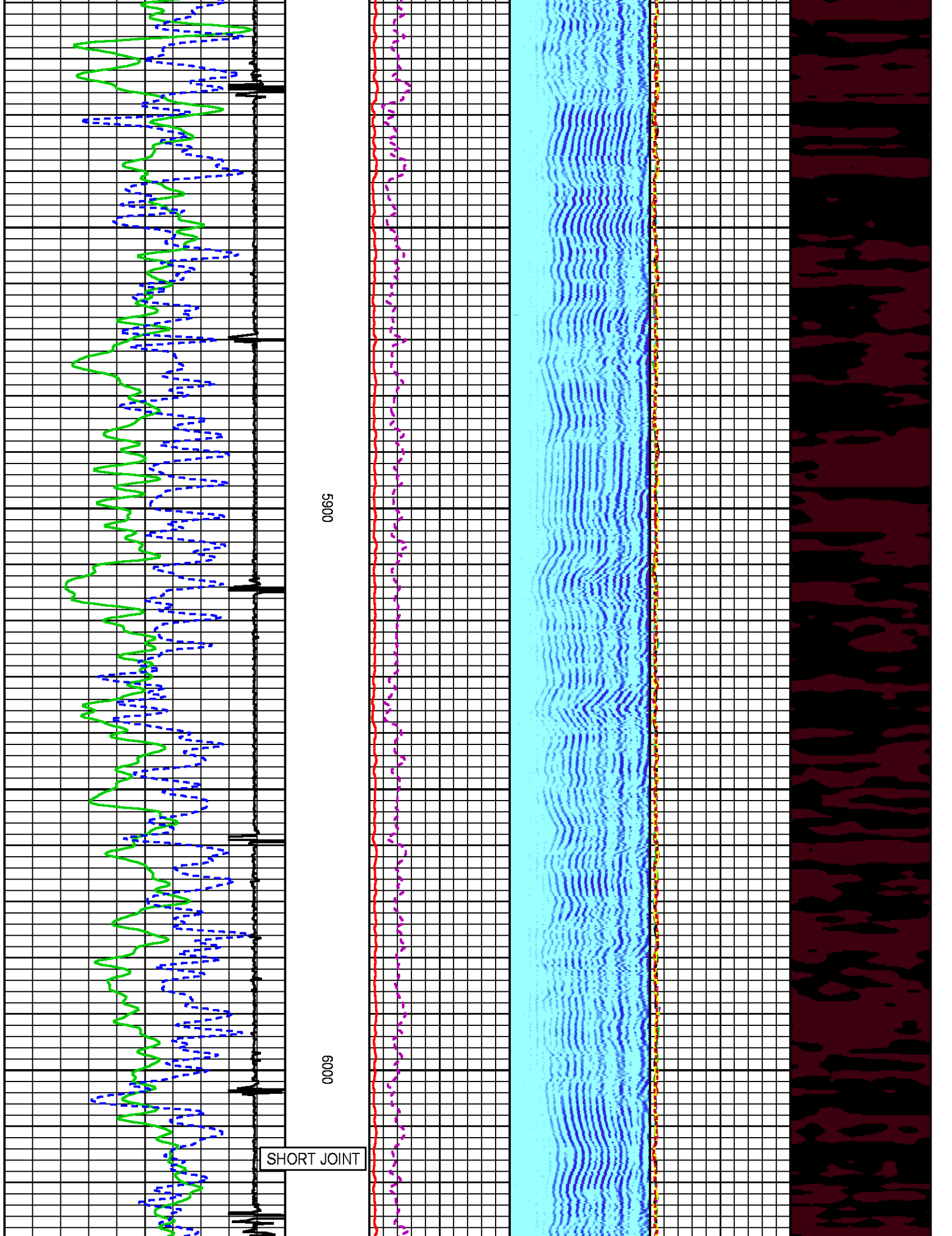


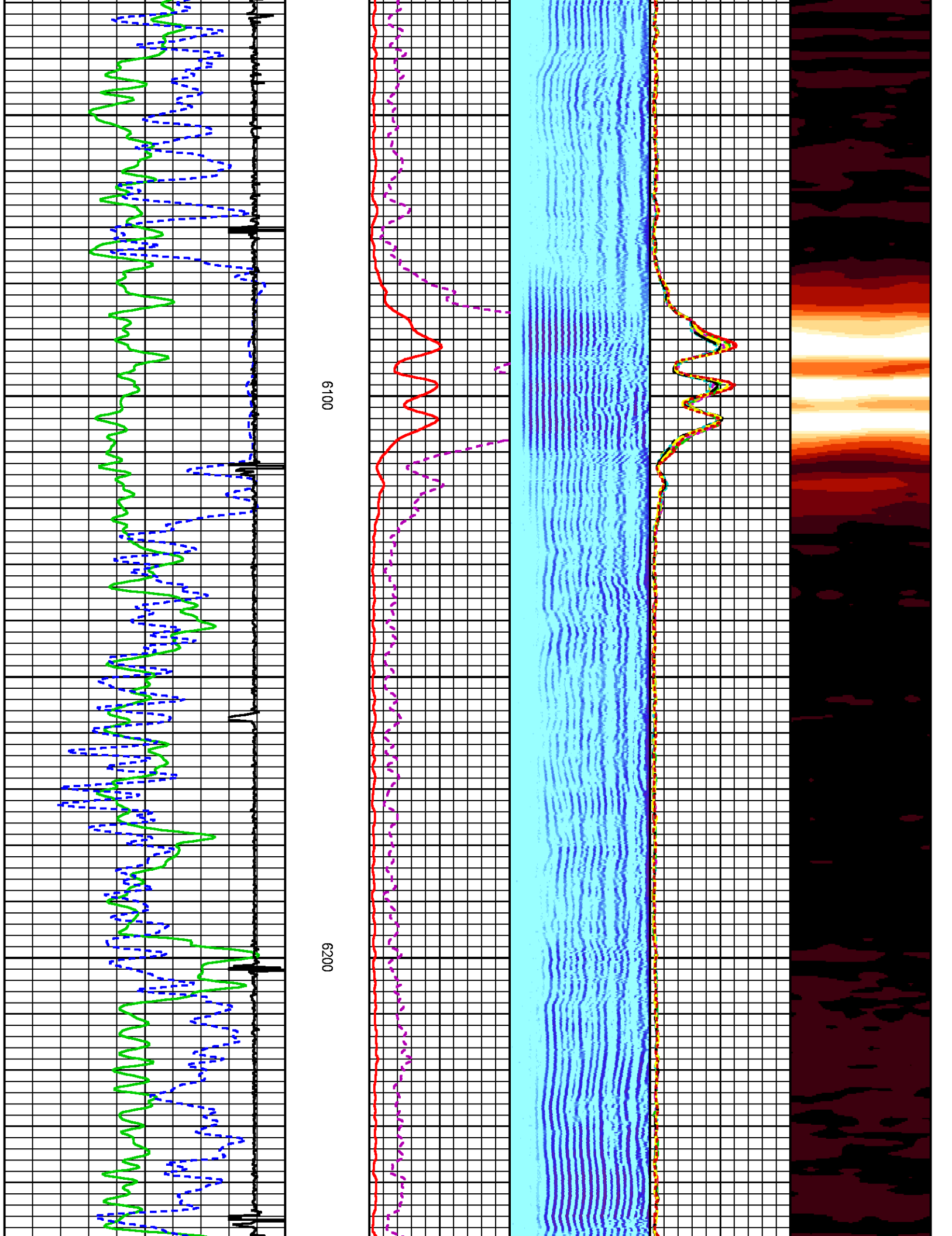
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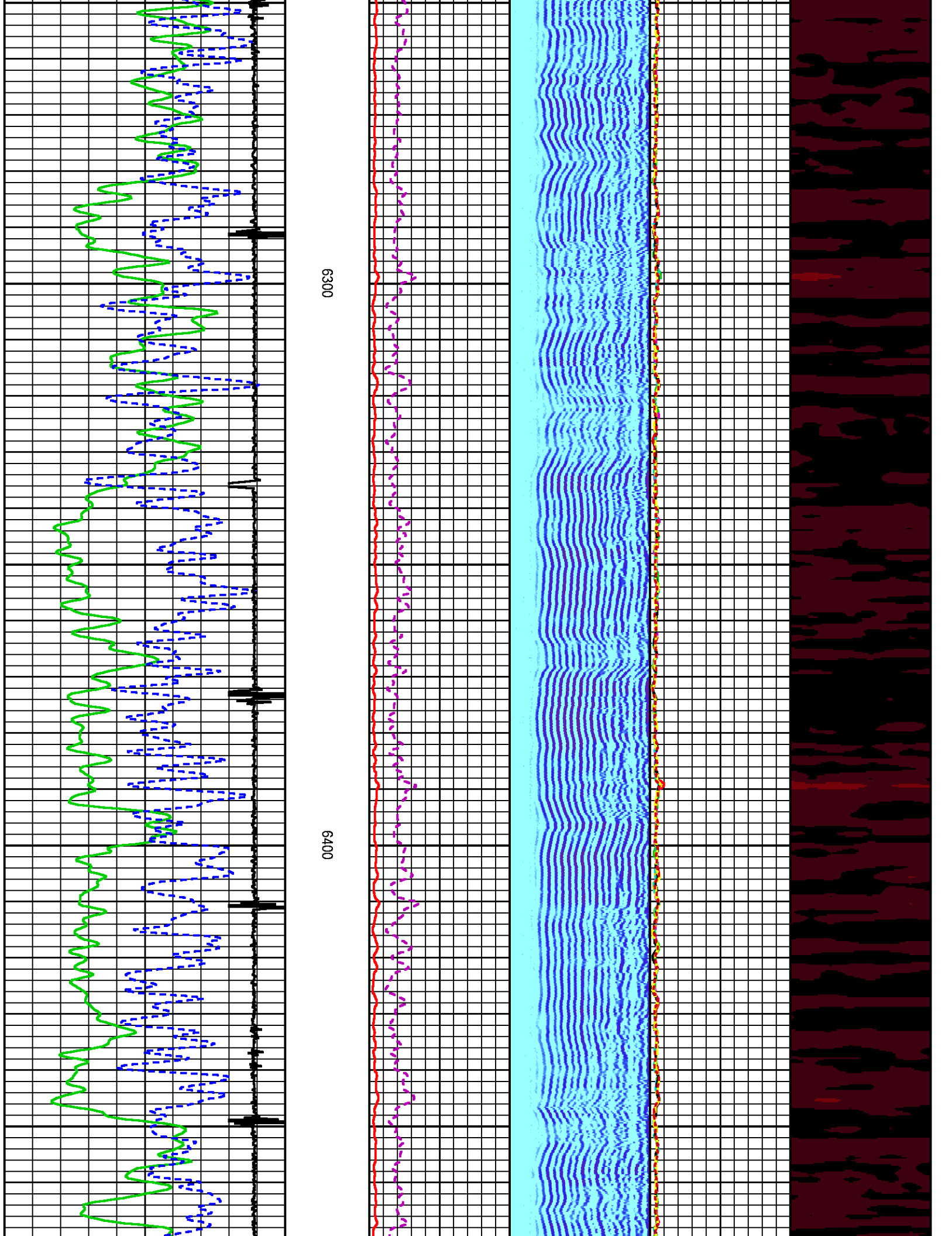
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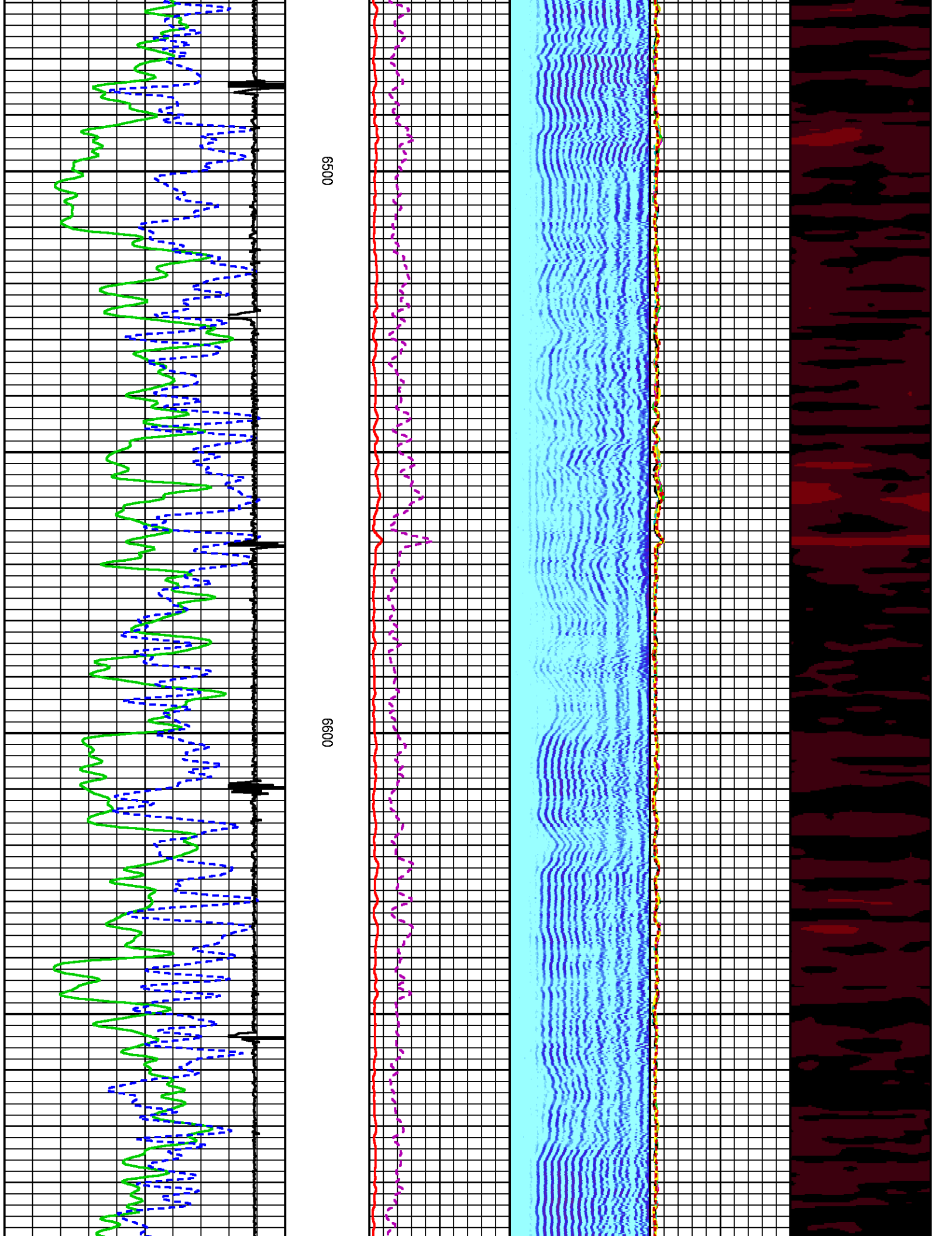
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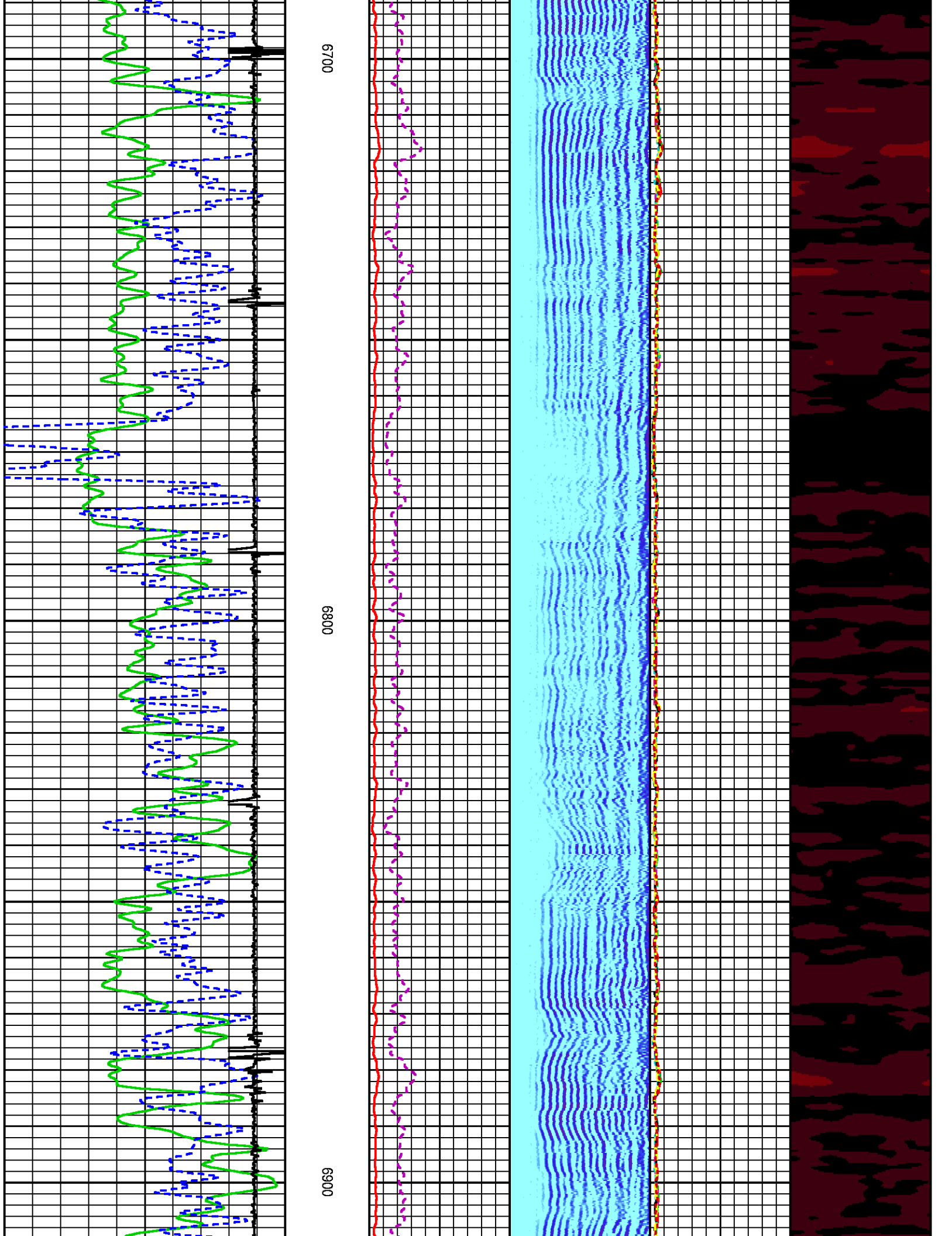


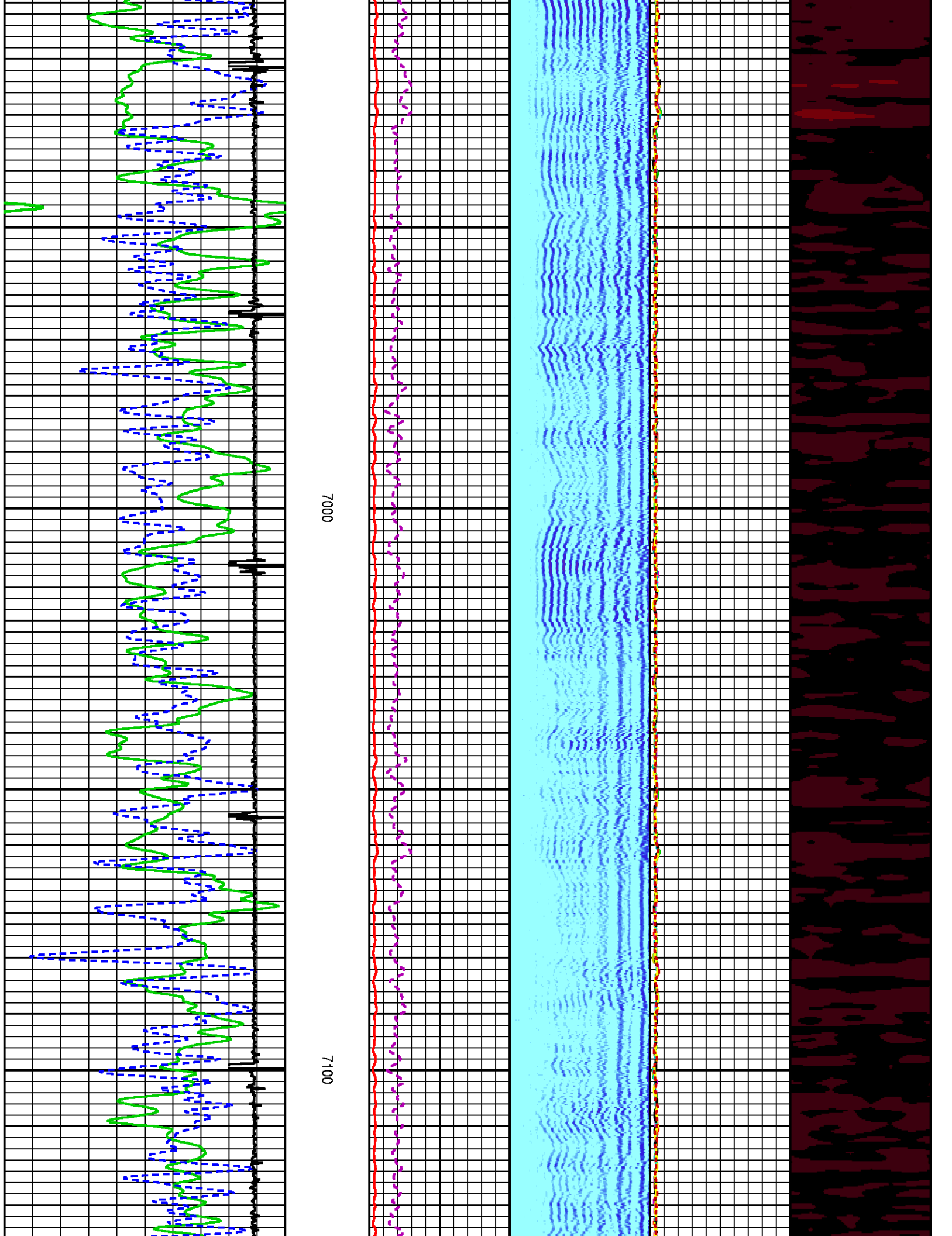


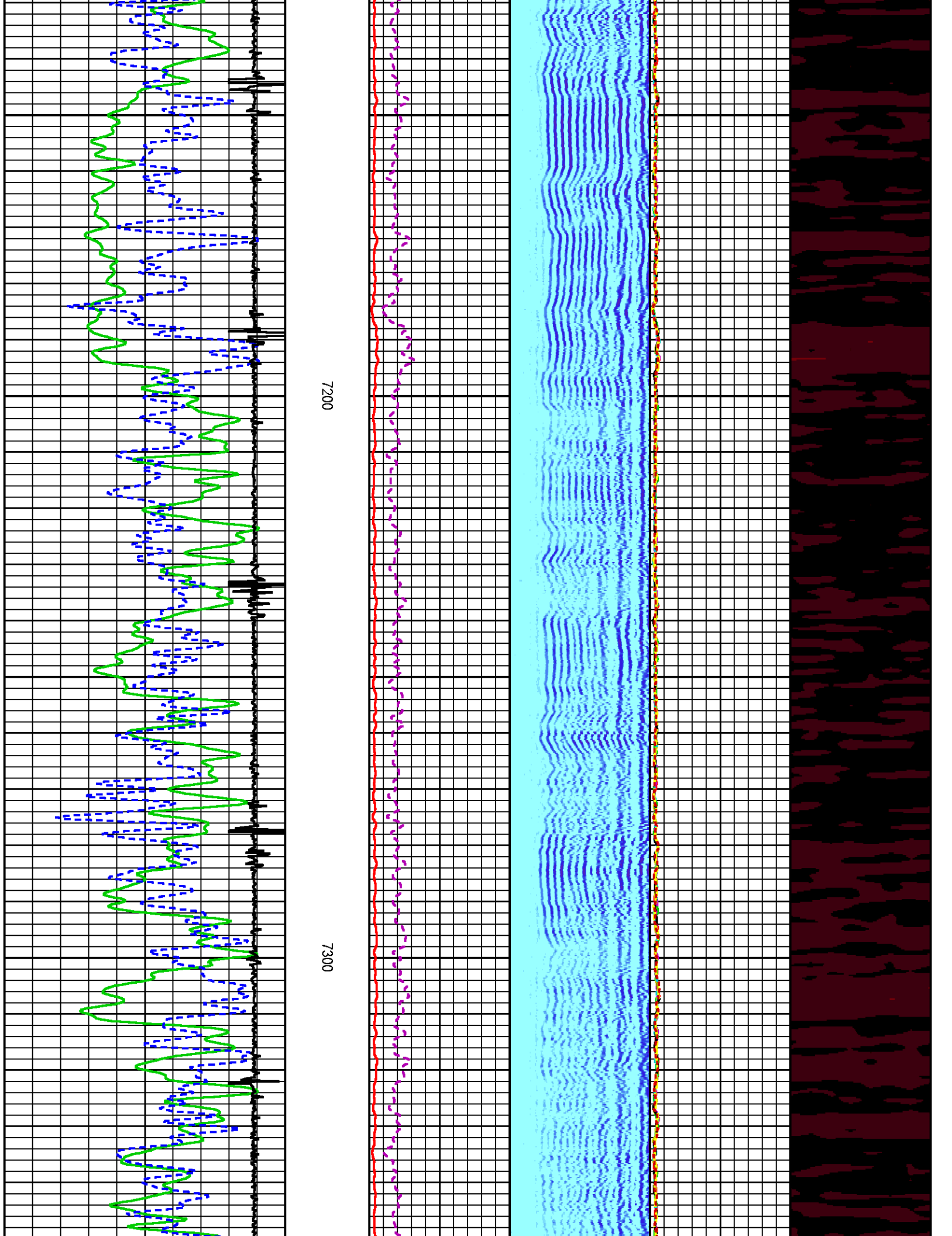


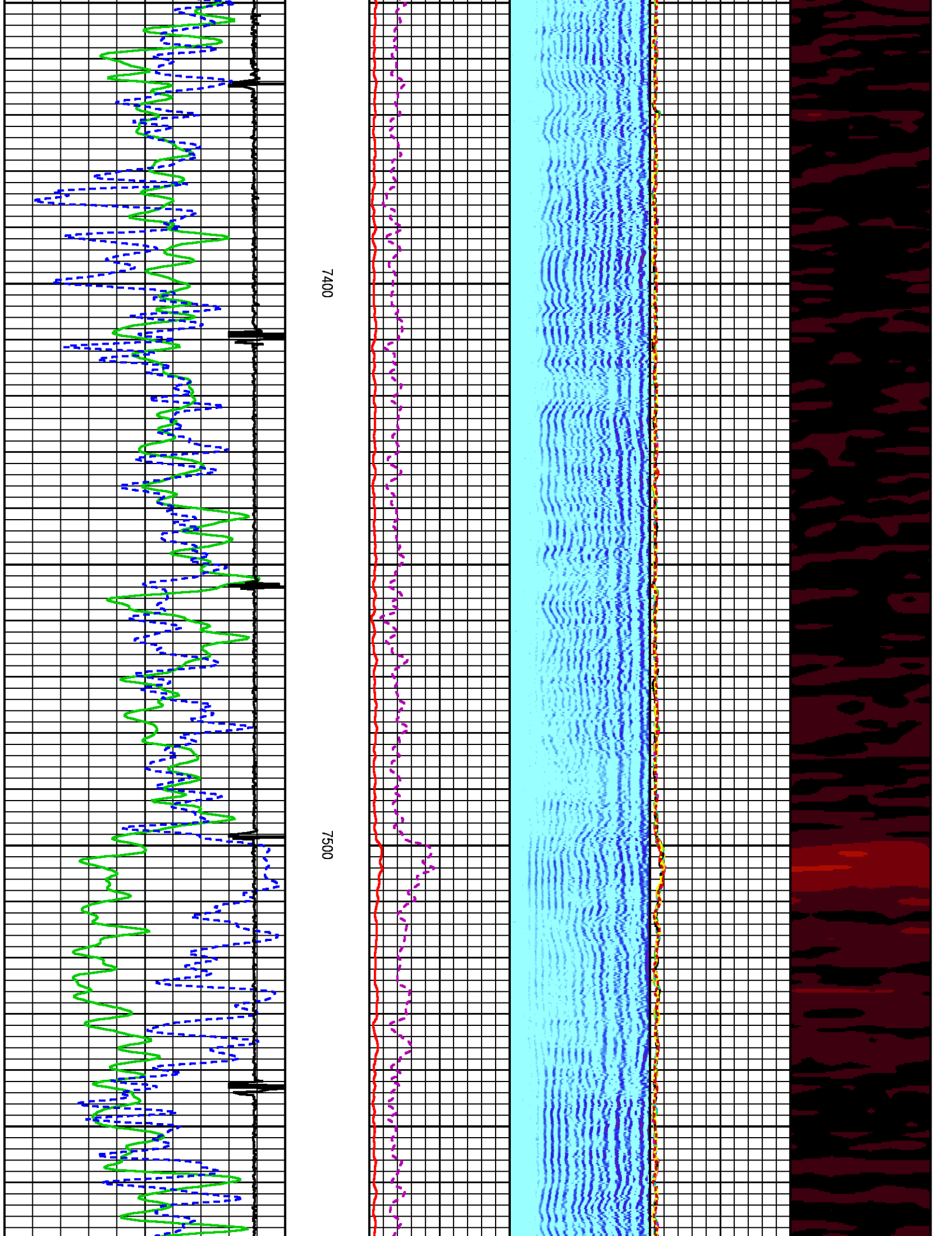


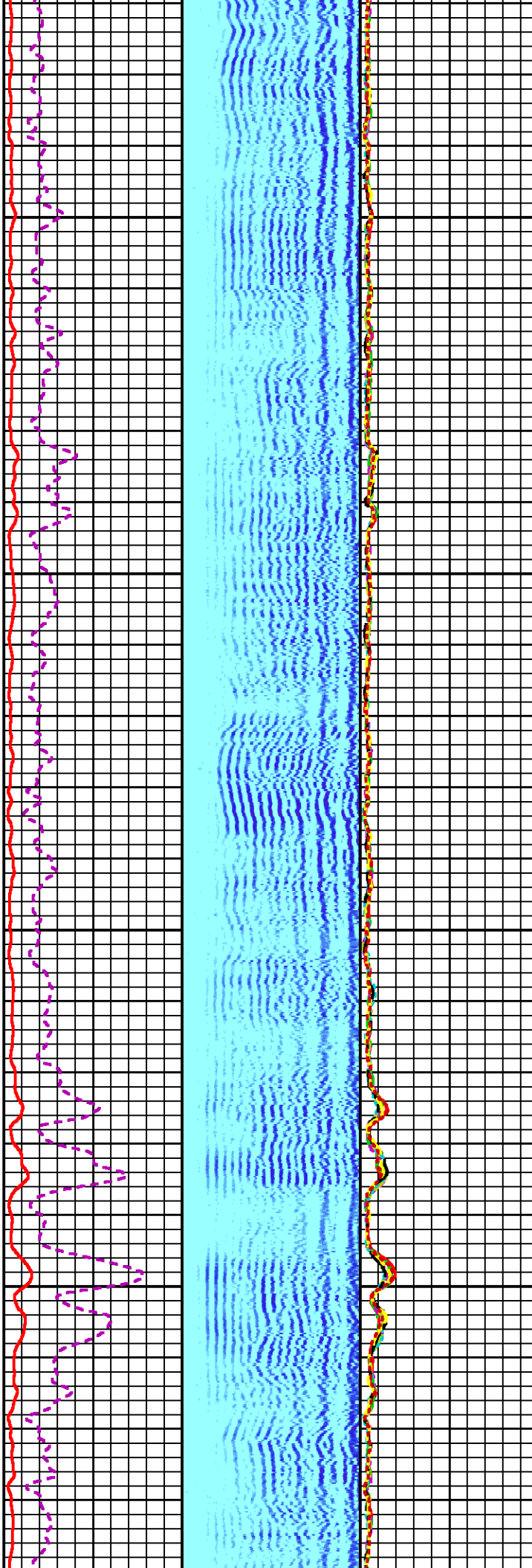
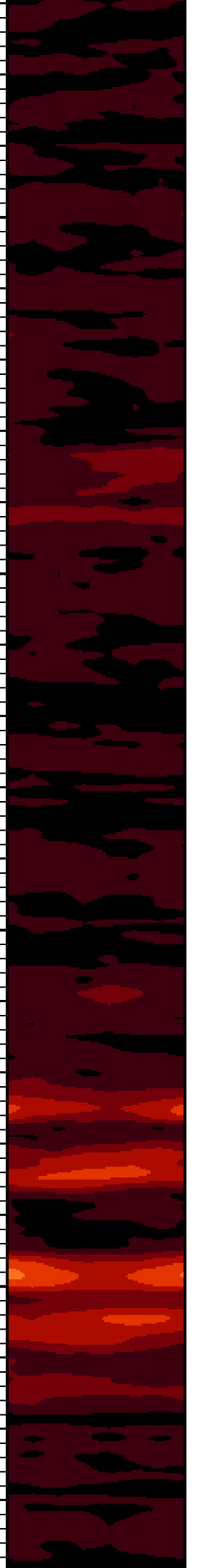






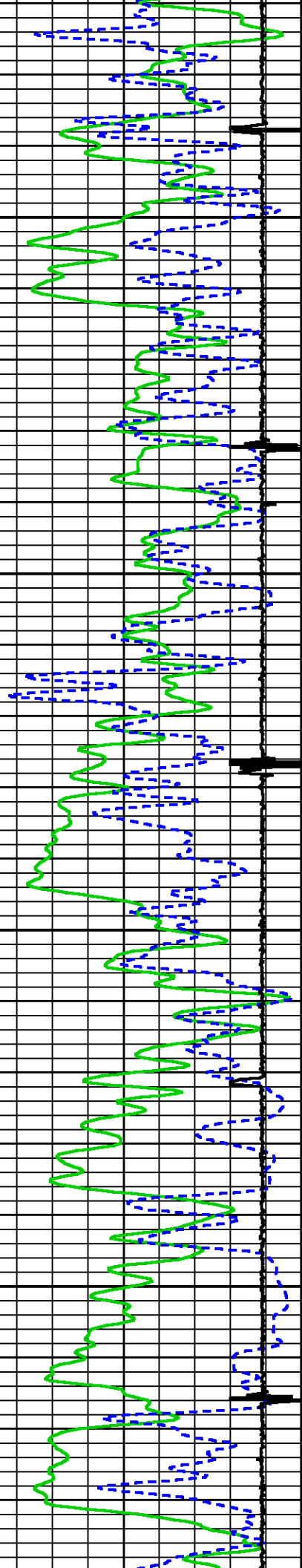


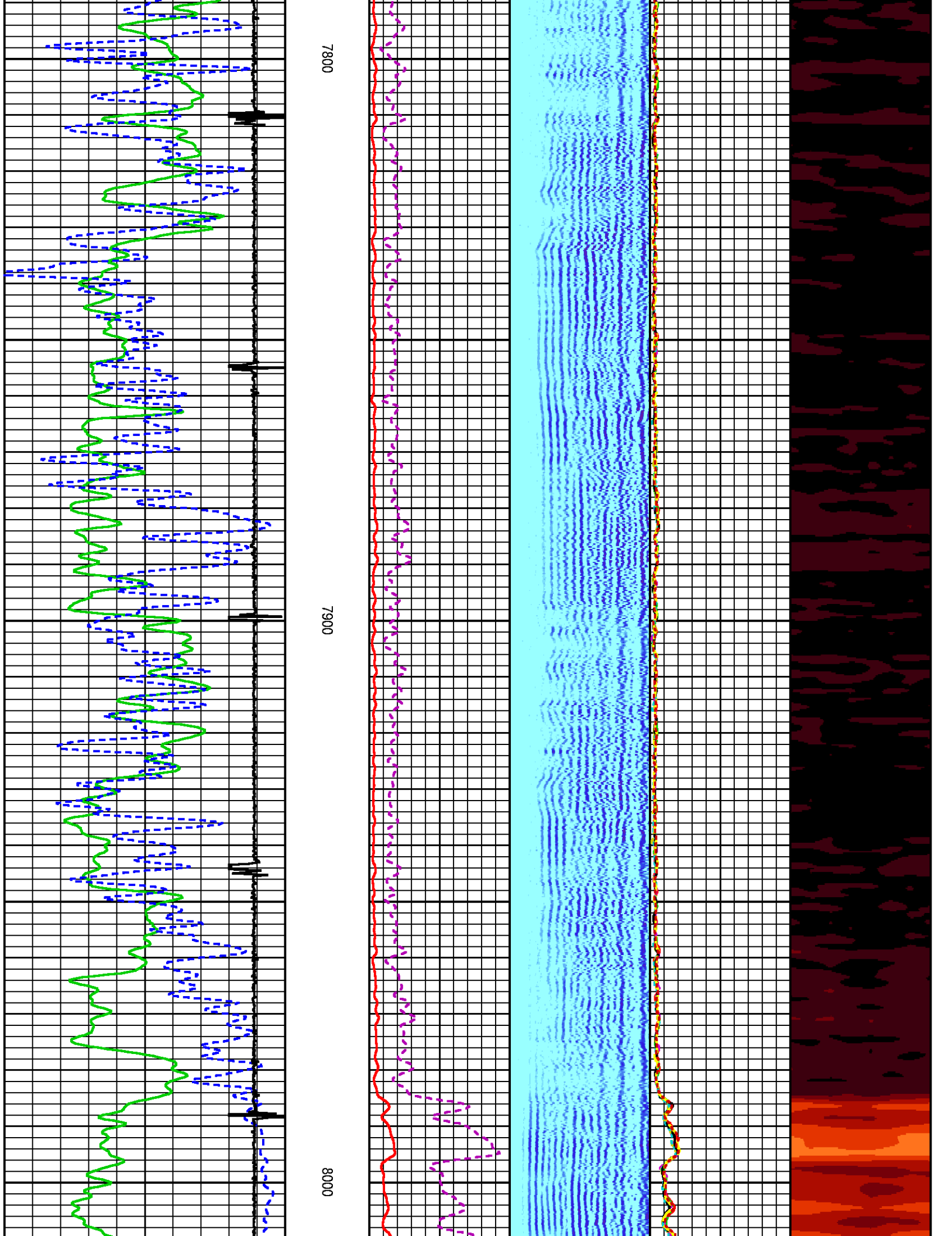


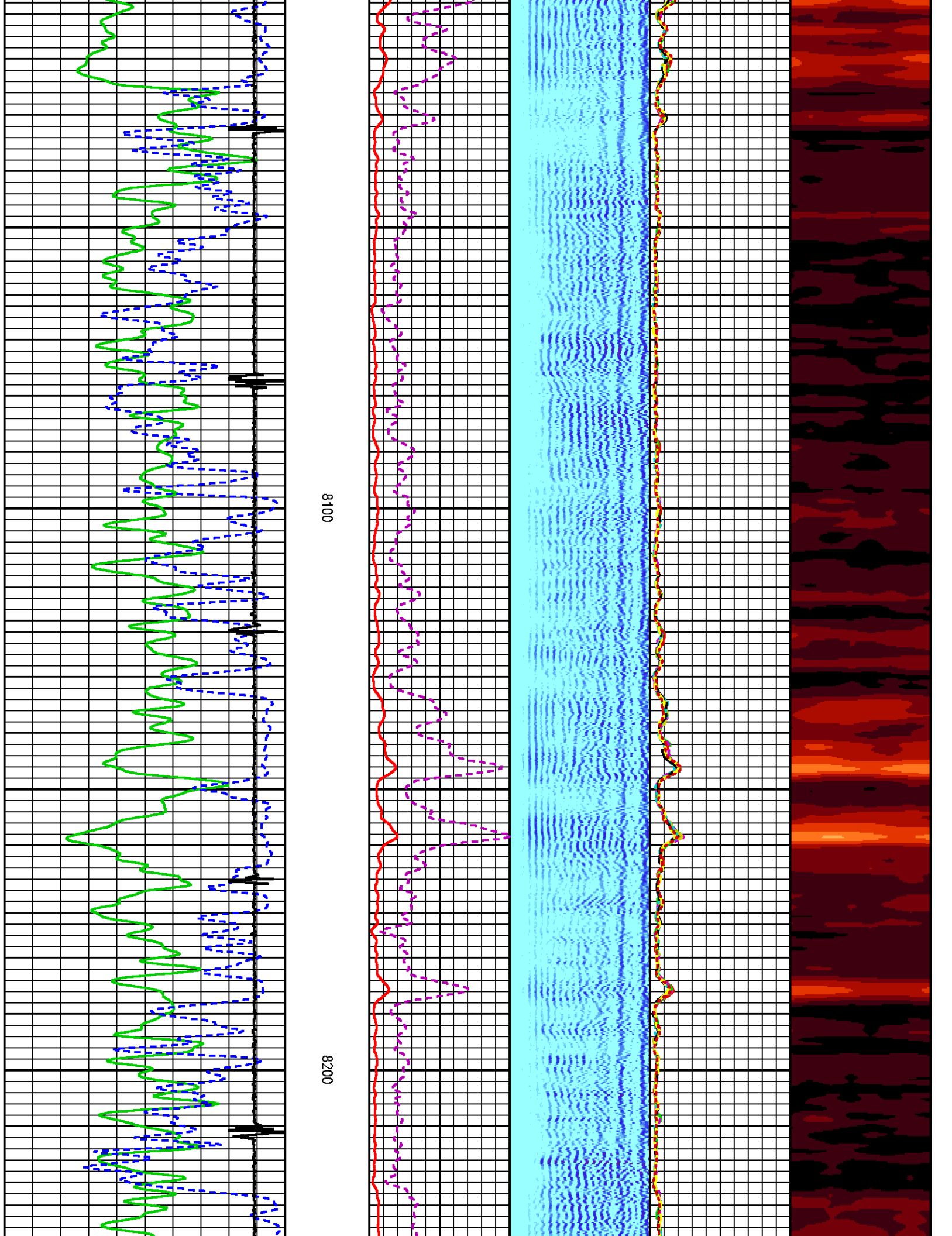


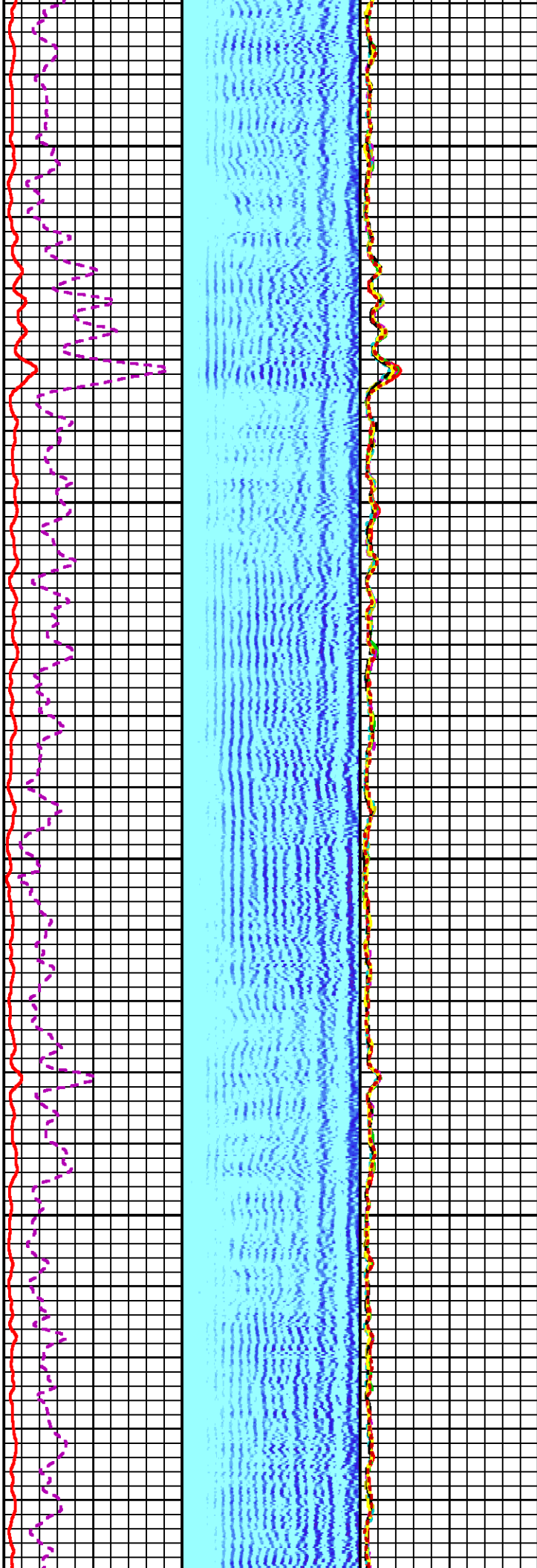
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7700



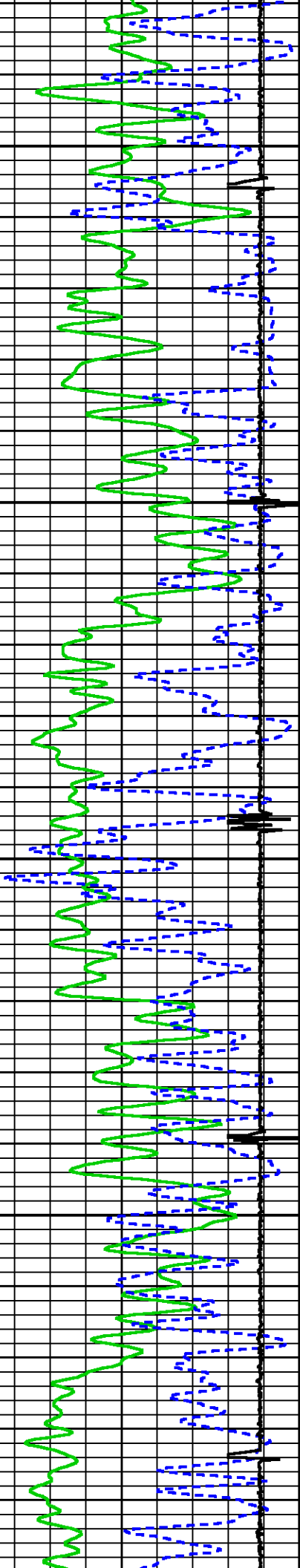


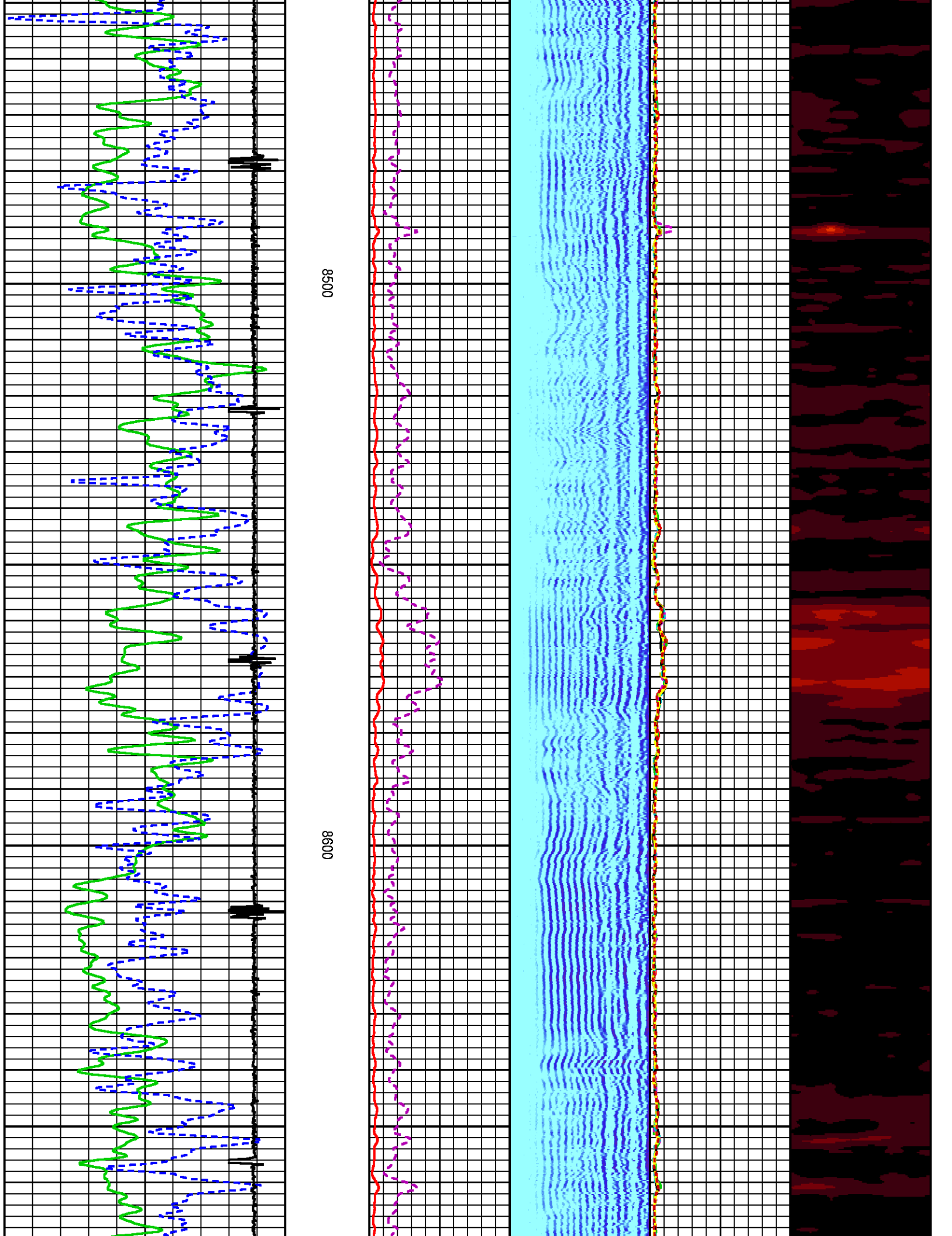


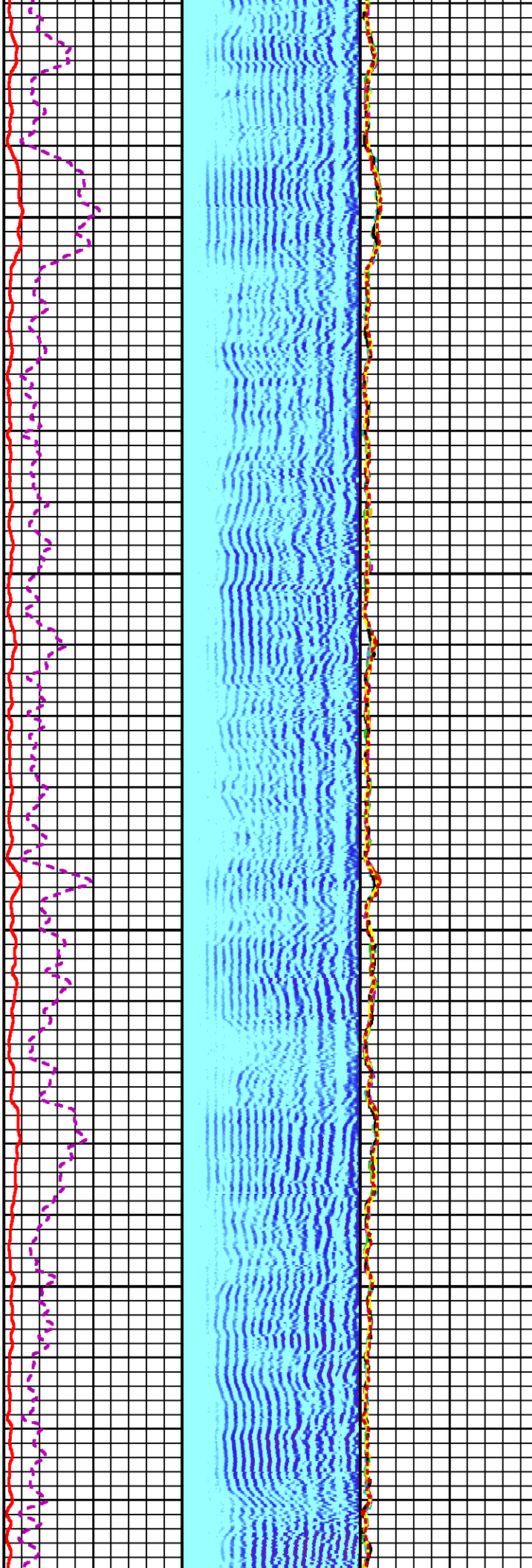
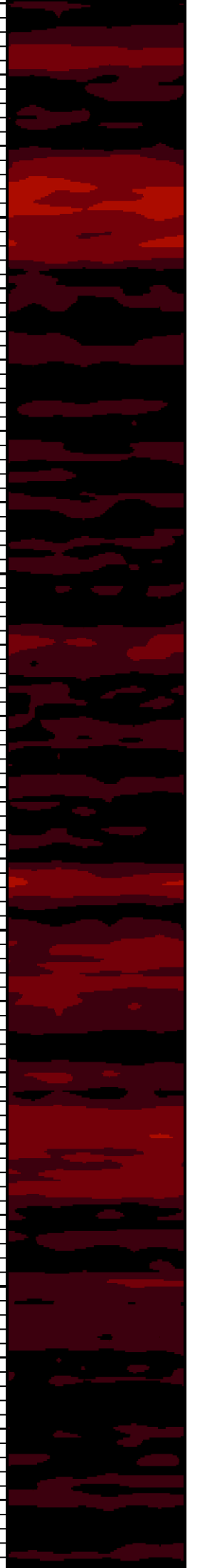


8300

8400

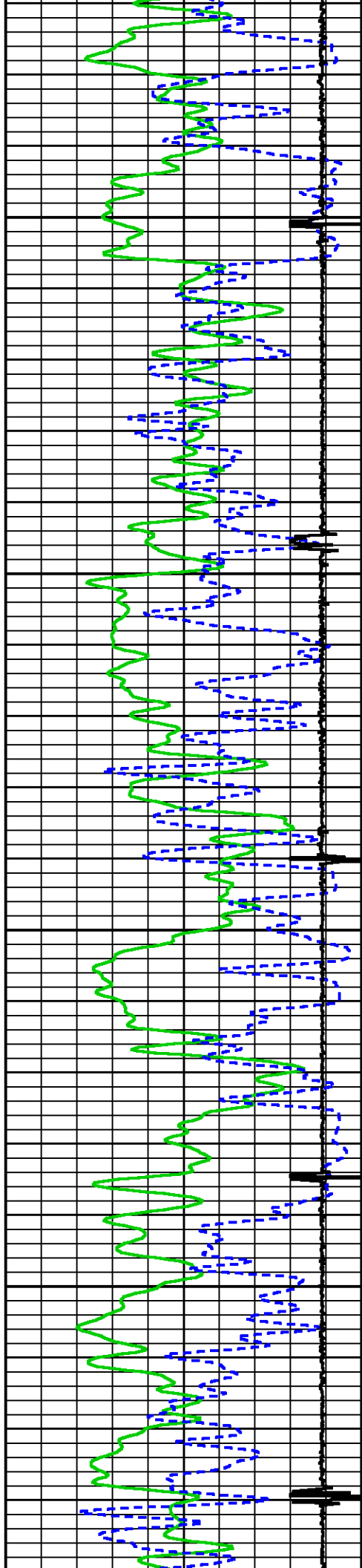


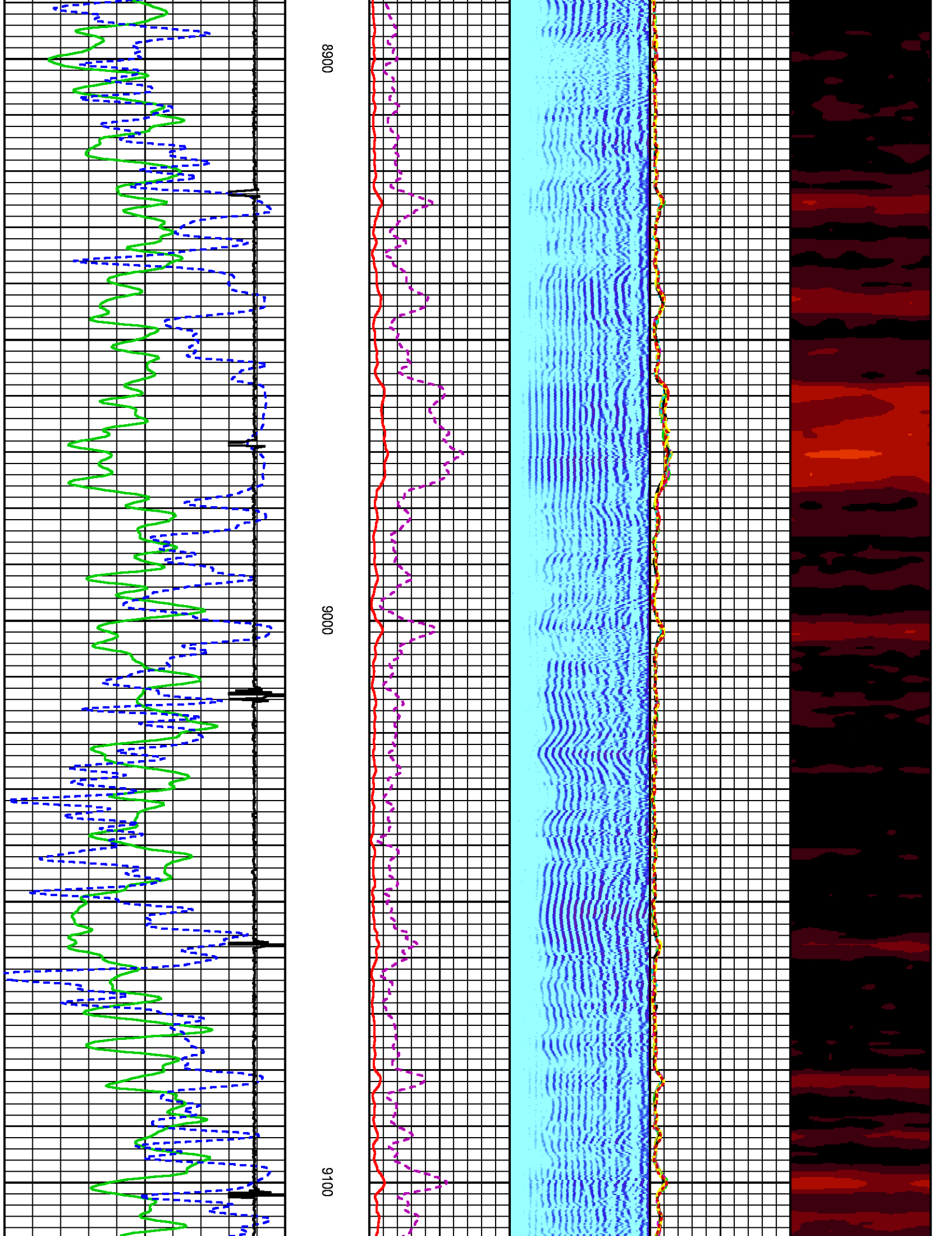


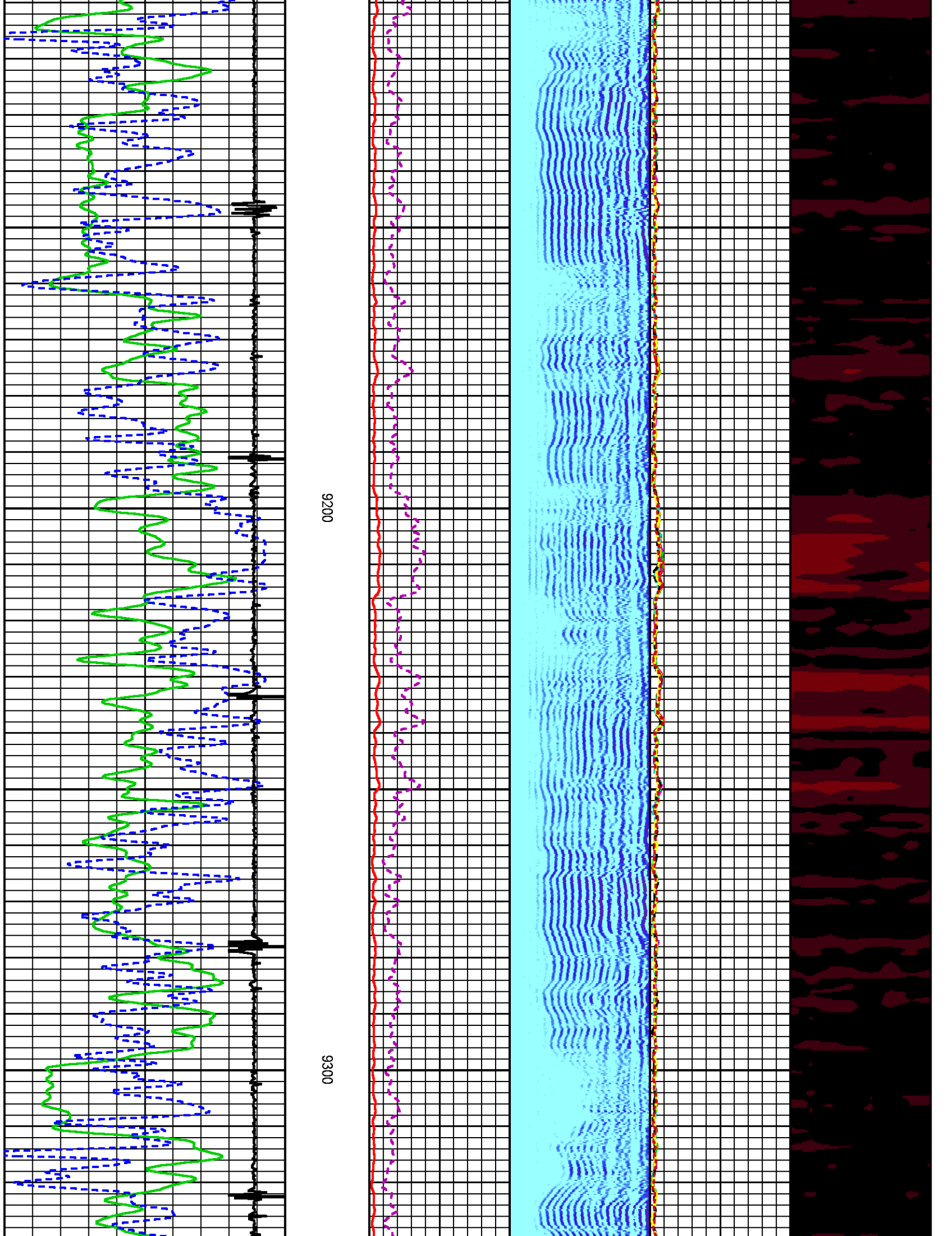


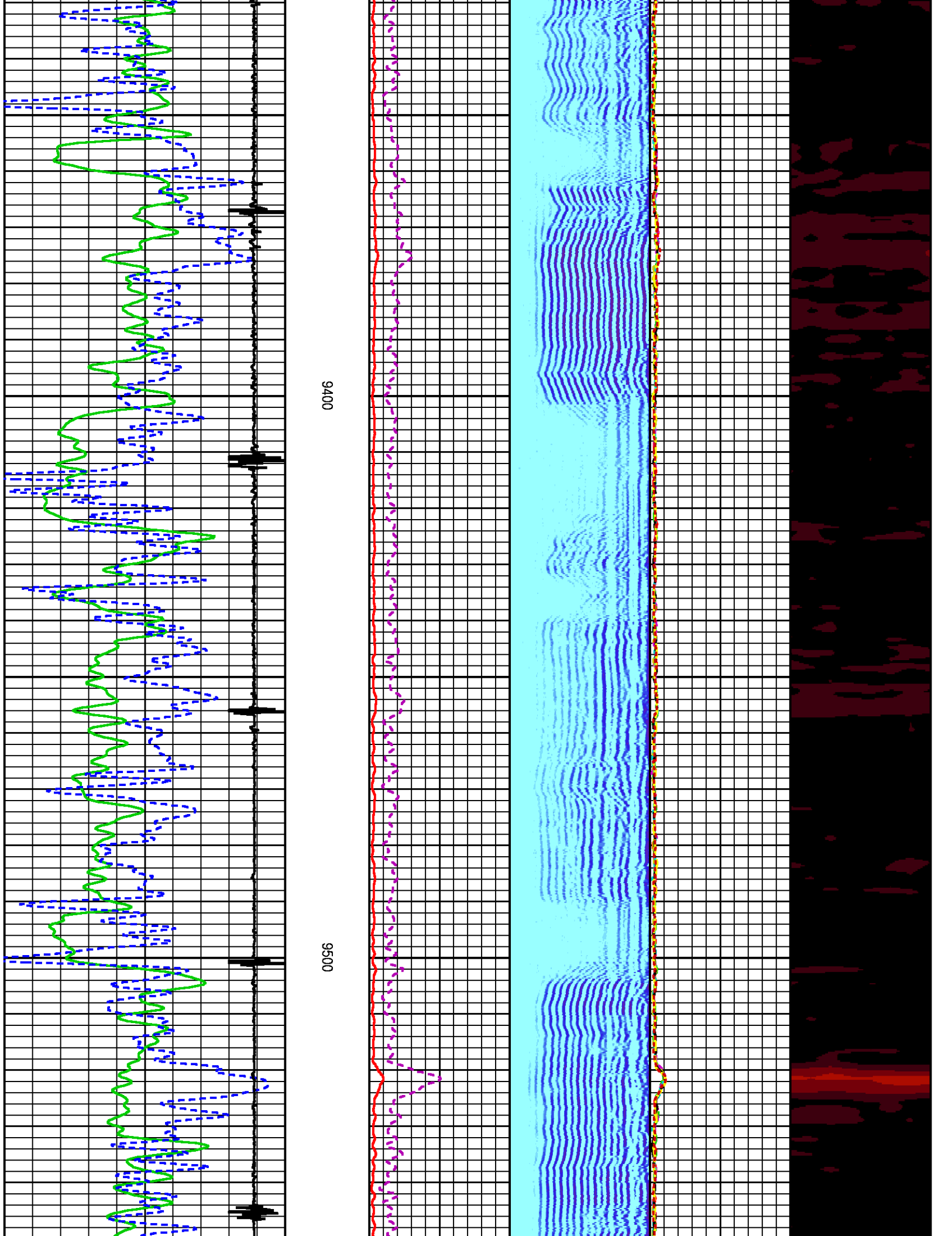
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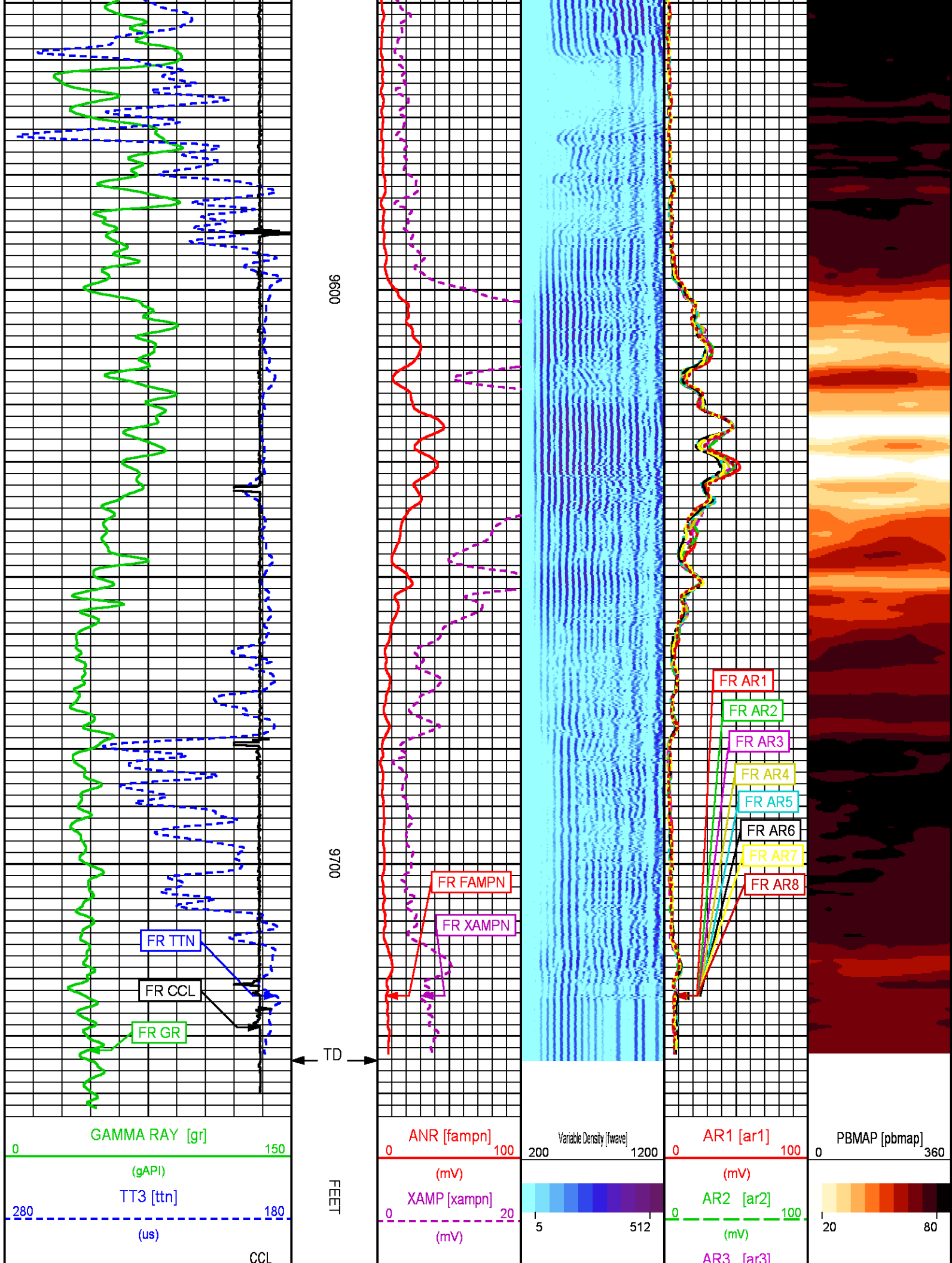
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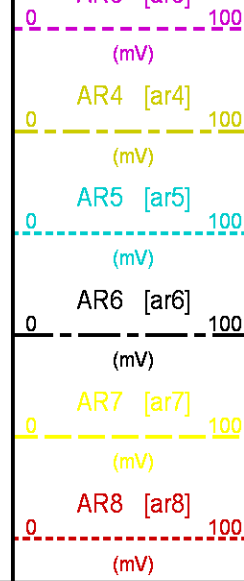








12000
(mV)



CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/TEP_YOUBERG_RU_321_7/m012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Fri Oct 21 08:29:41 2016

UNIT #: 3880TA HL6670

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

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	1.79	2.74	2.51	2.46	2.48	2.40	2.33	2.51	2.32	6.13	0.14
AMP FLUID (mV)	85	84	85	86	85	84	83	82	83	114	88
TT (us)	213	212	212	212	212	213	213	212	214	320	213
M FACTOR	1.20	1.23	1.21	1.20	1.21	1.22	1.24	1.26	1.24	1.40	1.14

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Fri Oct 21 16:34:51 2016

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMALL6670.

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.02	-0.36	-0.42	-0.41	-0.47	-0.27	-0.50	-0.49	-0.36	1.13	-0.08
AMP AIR	1.87	1.97	1.84	2.06	2.14	1.93	2.05	2.01	2.06	0.71	98.69

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.14	0.00	1.01

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 110827

DATE/TIME PERFORMED: Mon Oct 17 17:13:52 2016

UNIT #: 3882TD HL6741

CALB JIG #: 4702NK BA-856

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	38.04	233.16	195.1	0.513	19.50	119.50	100

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 110827

DATE/TIME PERFORMED: Mon Oct 17 17:15:00 2016

UNIT #: 3882TD HL6741

VERI JIG #: 4702NK BA-856

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	39.20	238.58	0.513	20.09	122.28	102.19
						90.00 110.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/TEP_YOUBERG_RU_421_7/n012g~tdg

CABLEHEAD

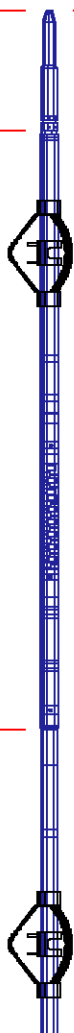
Diameter : 2.75"
Length : 2.25'
Weight : 10 lbs
Series : CABL234

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



20.38'

NEAR RCVR 11.17'


FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'

TOTAL LENGTH: 20.38'
TOTAL WEIGHT: 235 lbs
MAX DIAMETER: 0'4.00"

	COMPANY	TEP ROCKY MOUNTAIN LLC		FILE NO:
	WELL	YOUBERG RU 321-7		
	FIELD	RULISON		API NO:
	COUNTY	GARFIELD	STATE	COLORADO
LOCATION:		ELEVATIONS:		
SHL: 1984' FNL & 1904' FWL		KB 7363 FT		
BHL: 487' FNL & 2191' FWL		DF		
SEC 7 TWP 7S RGE 93W		GL 7339 FT		
		DATE		21-OCT-2016