



FILE NO: CH108535	COMPANY WELL FIELD COUNTY	TERRA ENERGY PARTNERS LLC FEDERAL GM 432-9 GRAND VALLEY GARFIELD STATE CO
API NO: 05045225350000		

Ver. 4.06 9 7S 96W MV 16-9 PAD H&P 318 RIG	LOCATION: SHL: 650' FNL & 574' FWL BHL: 1960' FNL & 1535' FEL SEC 9 TWP 7S RGE 96W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB ELEVATION 24 FT ABOVE P.D.	ELEVATIONS: KB 6110 FT DF GL 6086 FT
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DATE		28-Jul-2016	
RUN	TRIP	1	1
SERVICE ORDER	US108535		
DEPTH DRILLER	7887 FT		
DEPTH LOGGER	7810 FT		
BOTTOM LOGGED INTERVAL	7808 FT		
TOP LOGGED INTERVAL	24 FT		
TIME STARTED	8:00		
TIME FINISHED	10:00		
OPERATOR RIG TIME	2 HOURS		
TYPE OF FLUID IN HOLE	WATER		
FLUID DENSITY	NA		
FLUID SALINITY	NA		
FLUID LEVEL	47 FT		
LOGGED CEMENT TOP	NA		
WELLHEAD PRESSURE	0 PSI		
MAXIMUM HOLE DEVIATION	NA		
NOMINAL LOGGING SPEED	100 F/MIN		
MAX. RECORDED TEMP.	203 DEGF		
REFERENCE LOG	NA		
REFERENCE LOG DATE	NA		
EQUIP. NO.	LOCATION	HL-6685	GRAND JCT.
RECORDED BY	T. NEWELL		
WITNESSED BY	D. 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

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO

REMARKS

RUN 1 TRIP 1: THIS IS THE FIRST LOGGING RUN ON THIS WELL
ALL DATA ON THIS LOG HAS BEEN DEPTH SHIFTED TO PLACE THE TOP CCL MARK
ON DEPTH WITH TOP OF THE FRAC TREE (10' ABOVE GROUND LEVEL) WITH RESPECT TO KB.

AMOUNT OF LINEAR SHIFT = +10 FEET

LOGGED WITH 0 PSI AT SURFACE

BHT = 203 DEGF
SJ = 4826' - 4848'

THANKS FOR CHOOSING BAKER HUGHES WIRELINE
CREW: SPENCER / COATE

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10417452	CENTRALIZED
1	1	GR / CCL	1355XA	11871508	CENTRALIZED

PRIMARY PRESENTATION 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: Thu Jul 28 11:29:36 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108535/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 5.250 ft BOTTOM DEPTH: 7810.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	186	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	176	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	135	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jul 28 08:41:27 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 28 08:41:27 2016	FAR WAVE FORM
F1:GR	Jul 28 08:41:27 2016	GAMMA RAY
F1:TTN	Jul 28 08:41:27 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

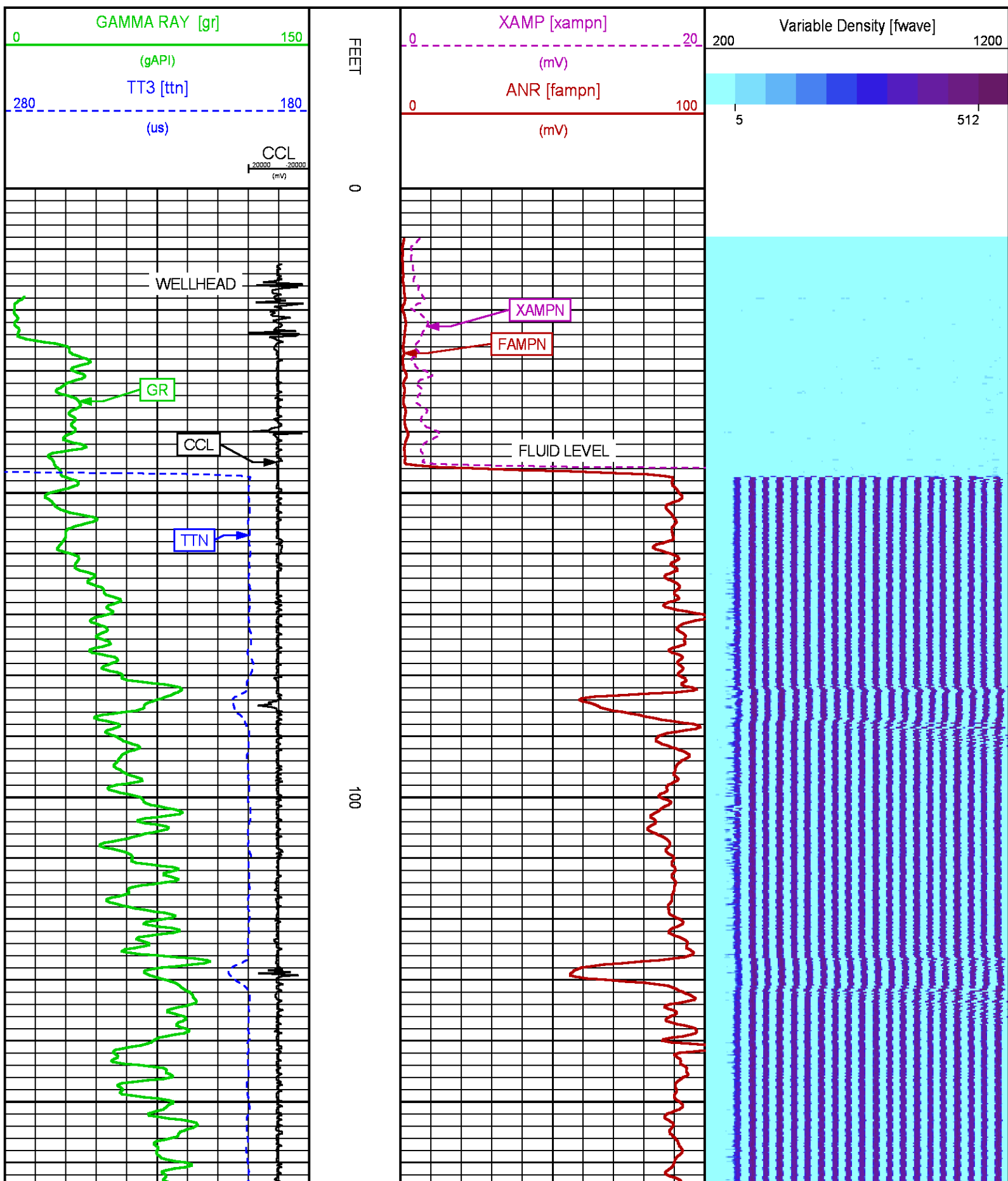
CURVE MEASURE POINT OFFSET

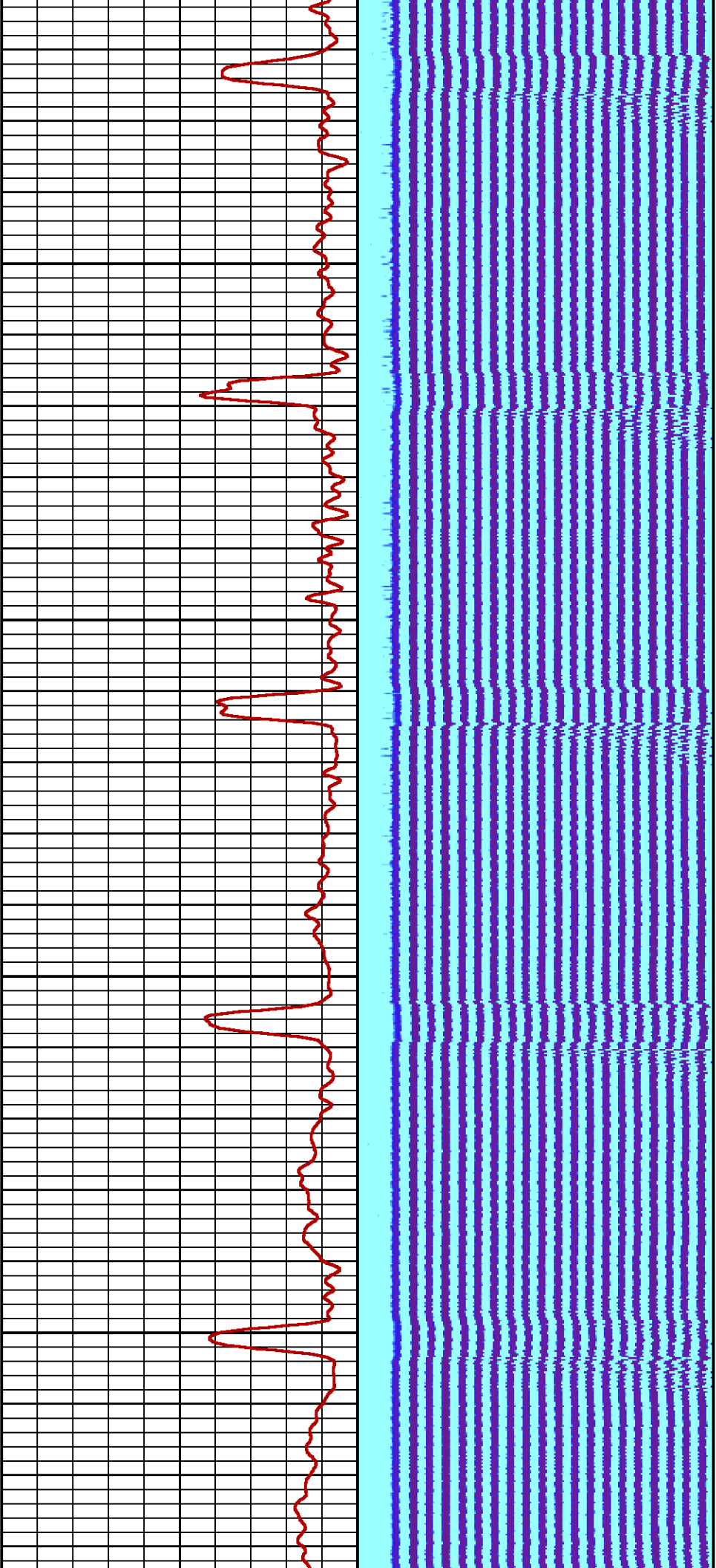
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation : cas6685:/dat1a/CH108535/432CBL_PRIMARY.fvp.pdf [5"/100' Scale]

Plot Interval : 0.7825 Feet

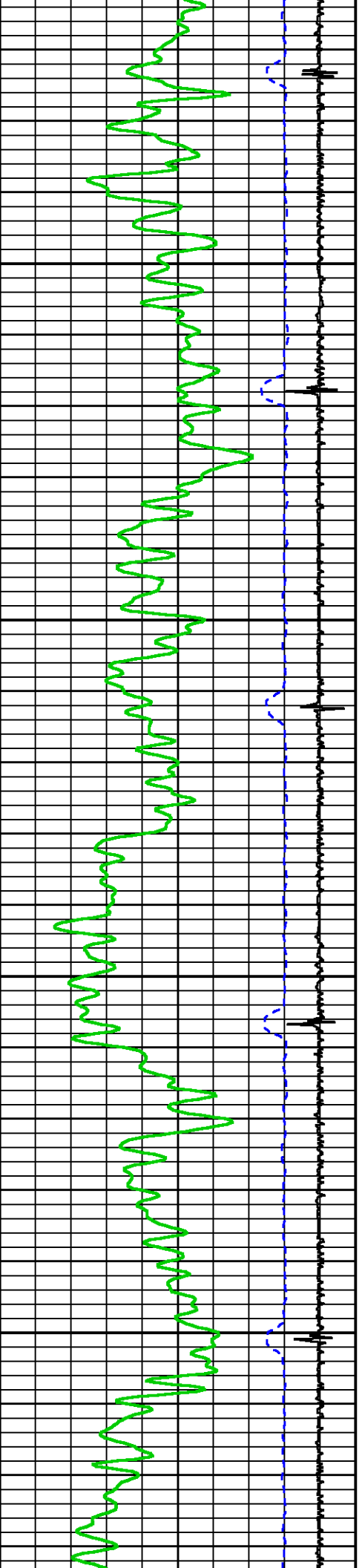
Plot Interval : 0 - 7823 Feet
Data File 1 : F1 : cas6685:/dat1a/CH108535/432CBL_MAIN.xtf
Created On : Jul 28 08:41:27 2016
Company : TERRA ENERGY PARTNERS LLC
Well : FEDERAL GM 432-9
Field : GRAND VALLEY
File Interval : 7 - 7823.25 Feet
OCT : n012g

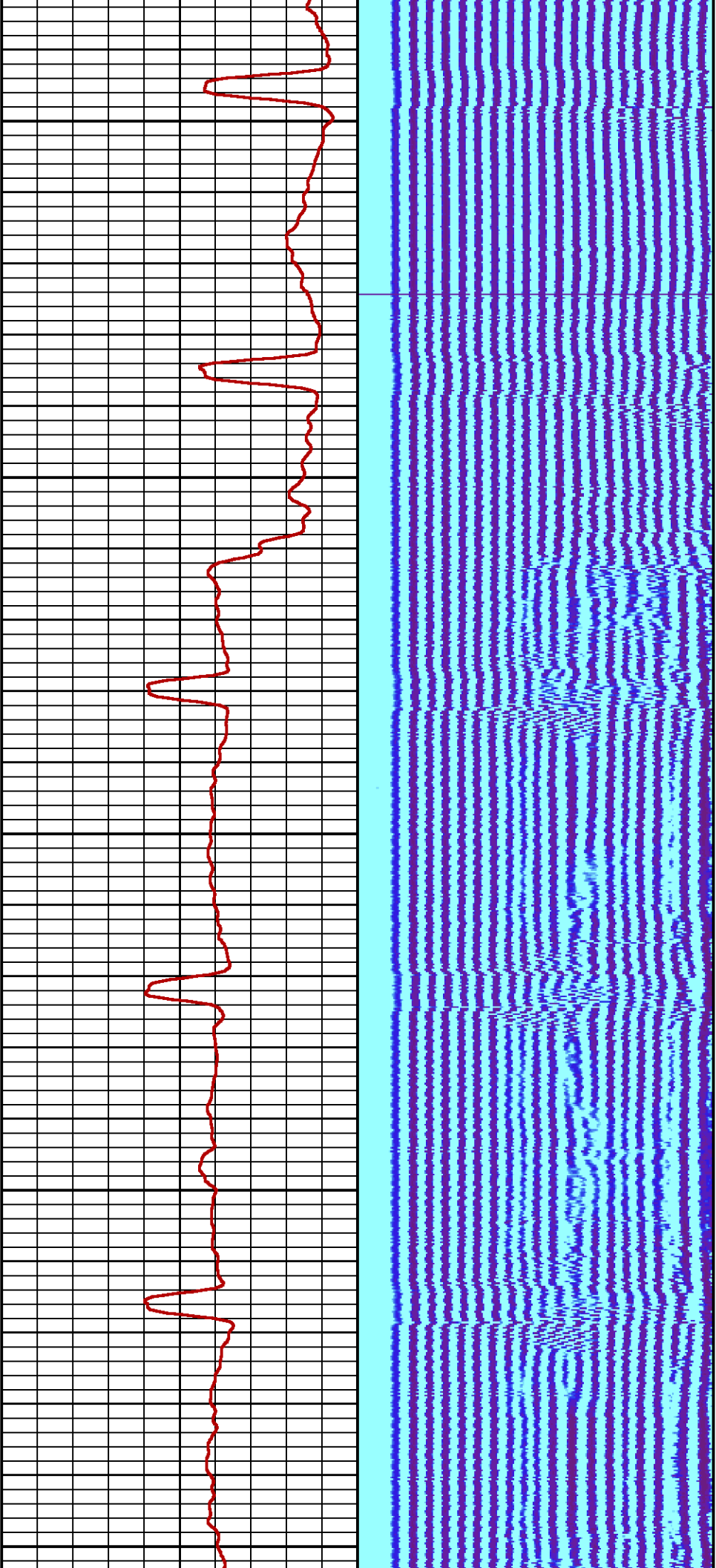




200

300

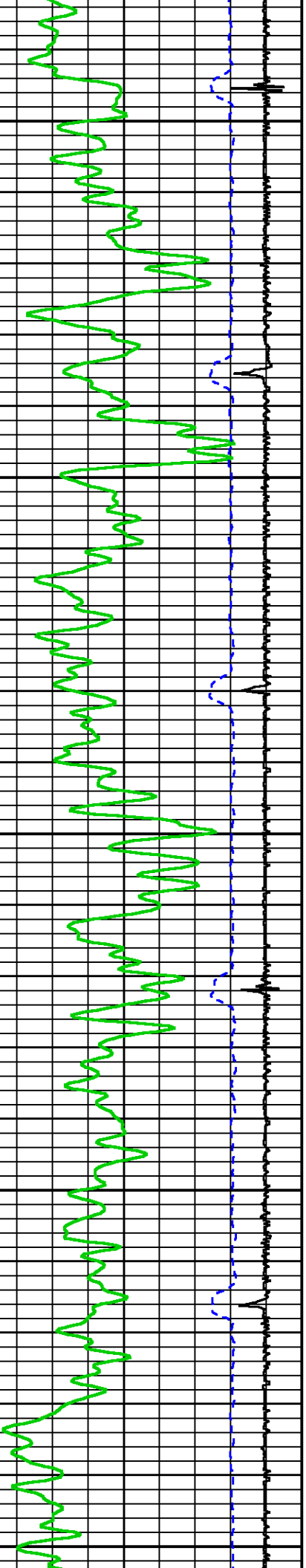


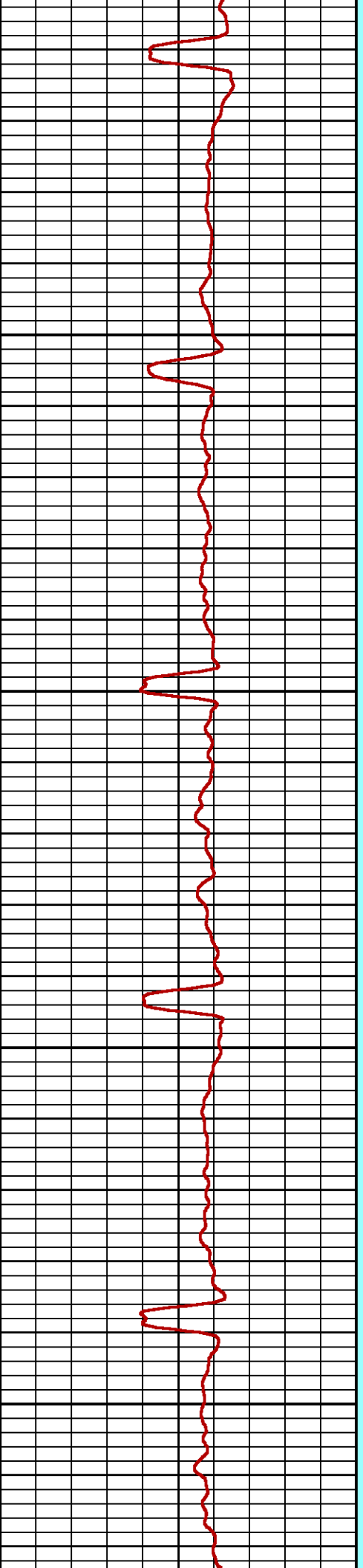
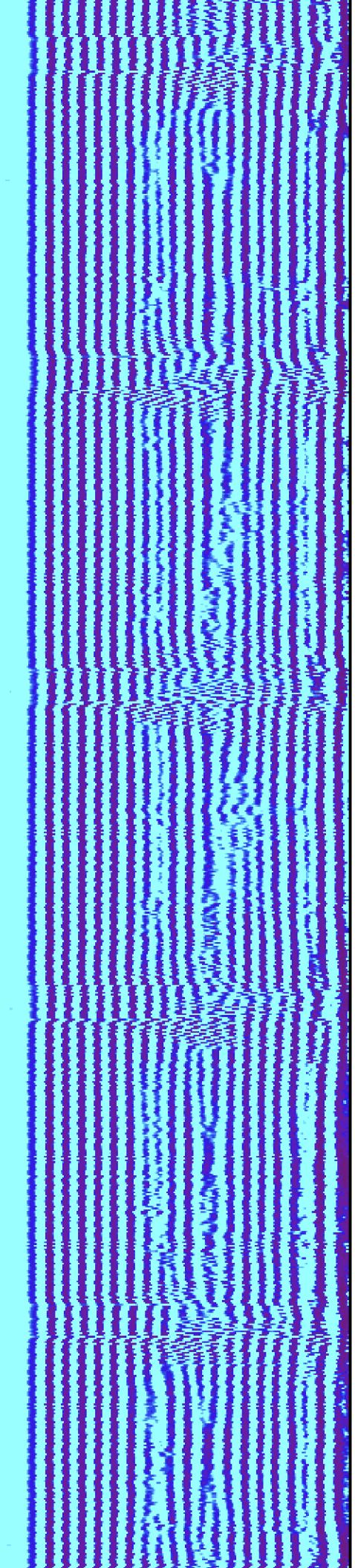


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500

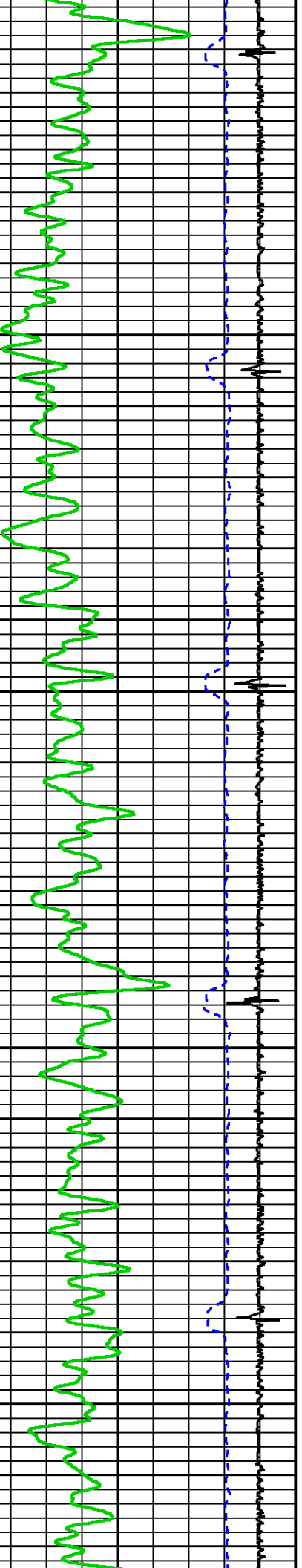
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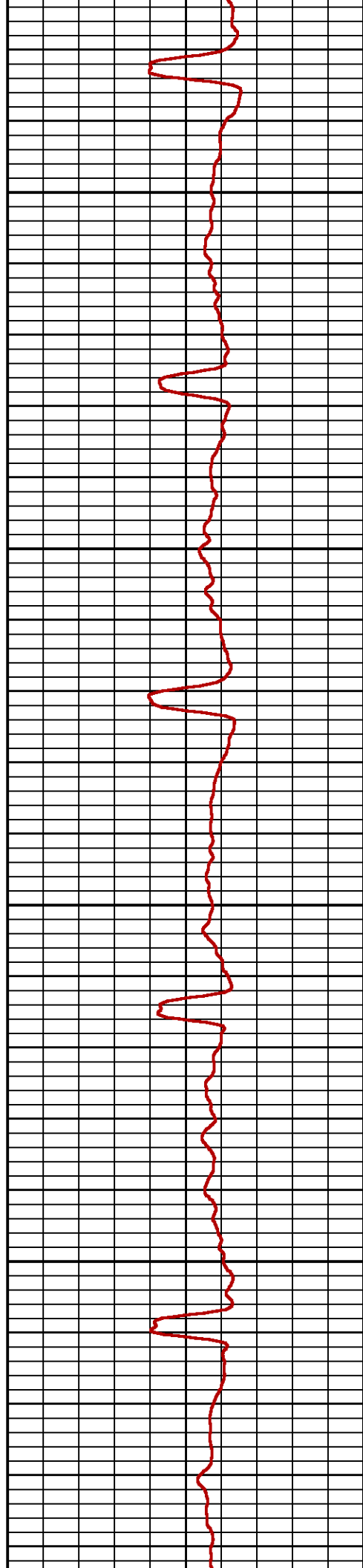
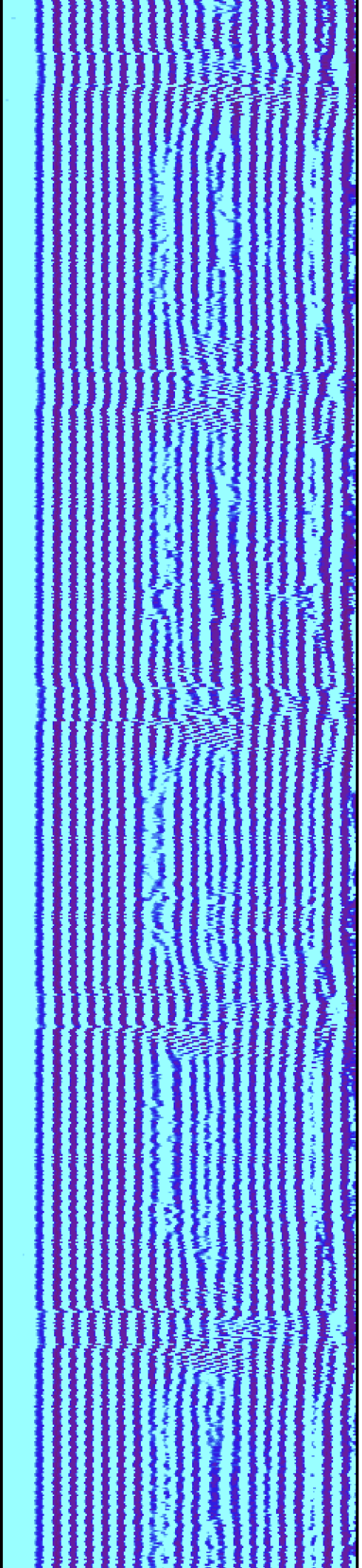




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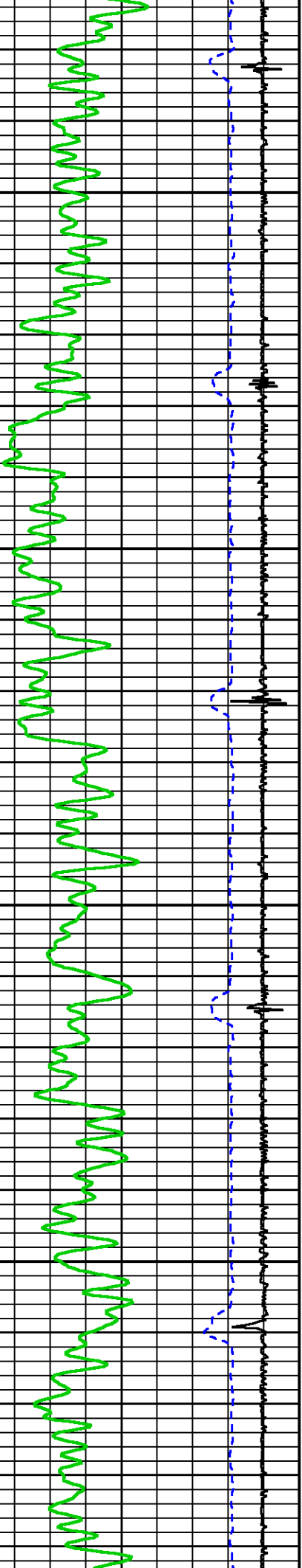
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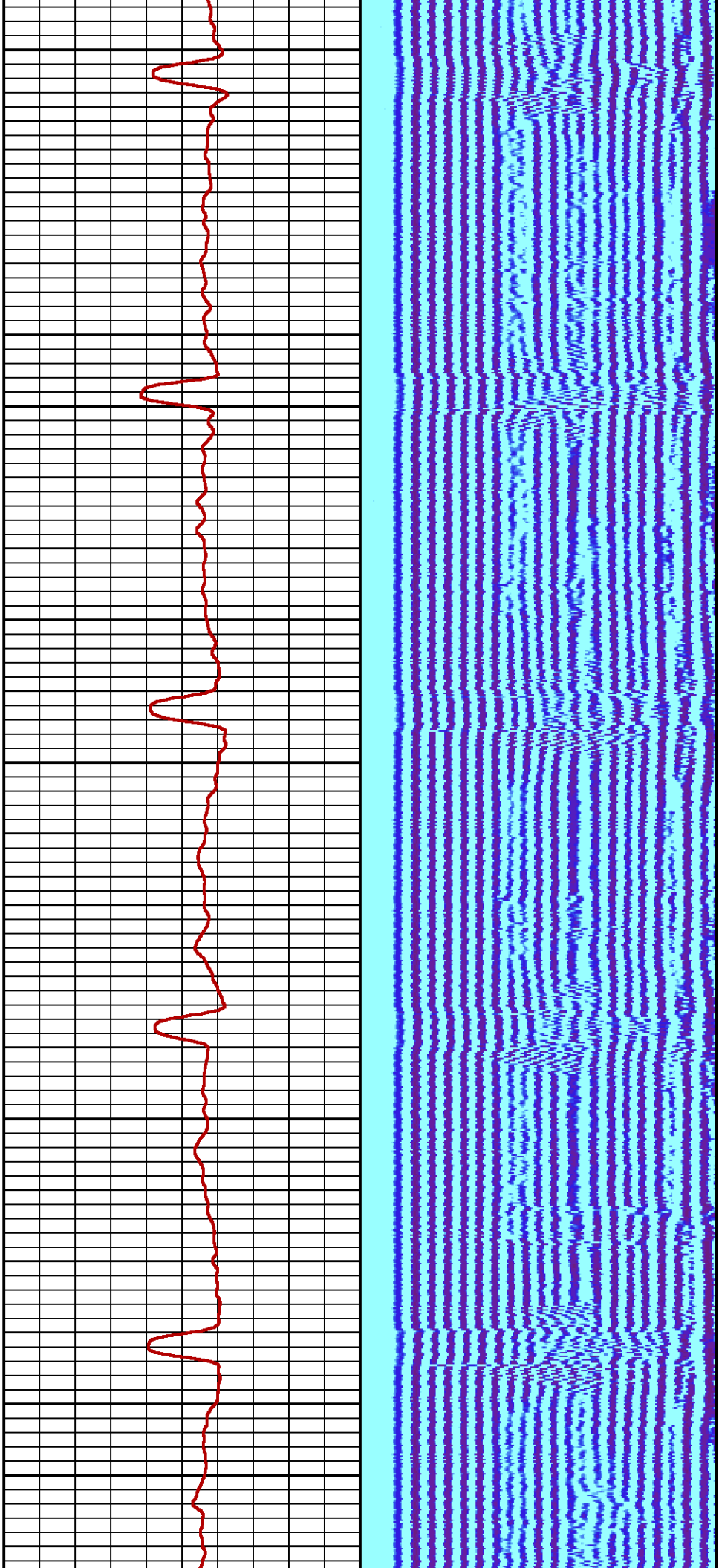




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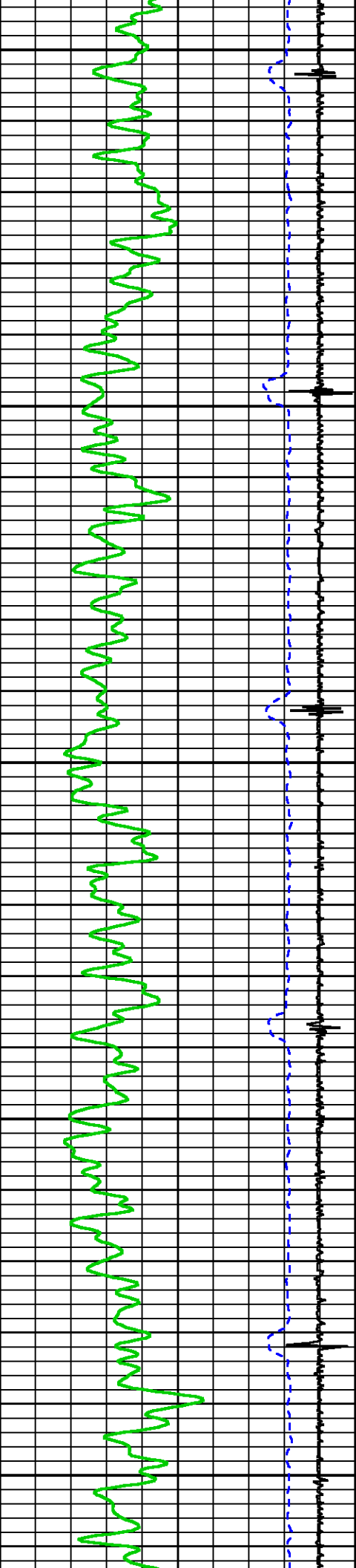
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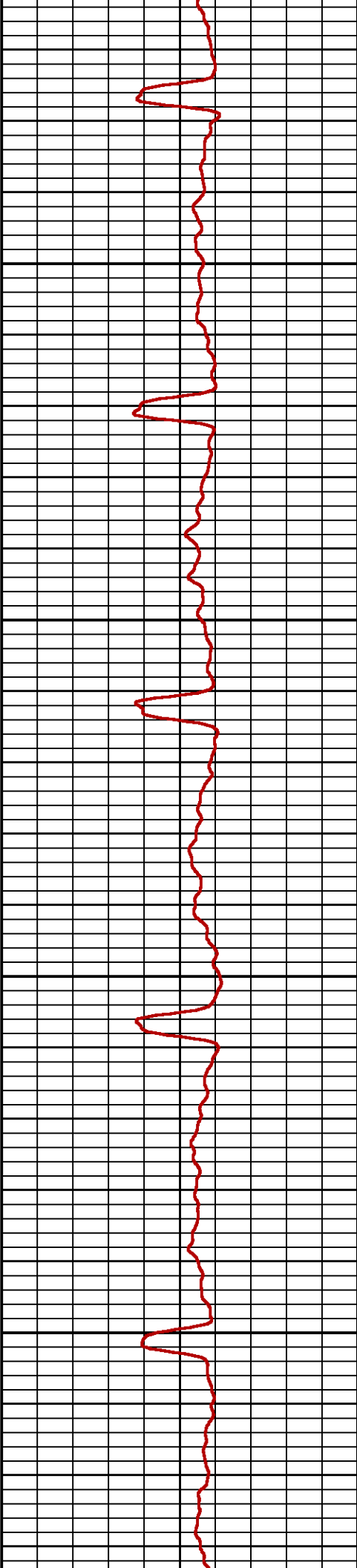
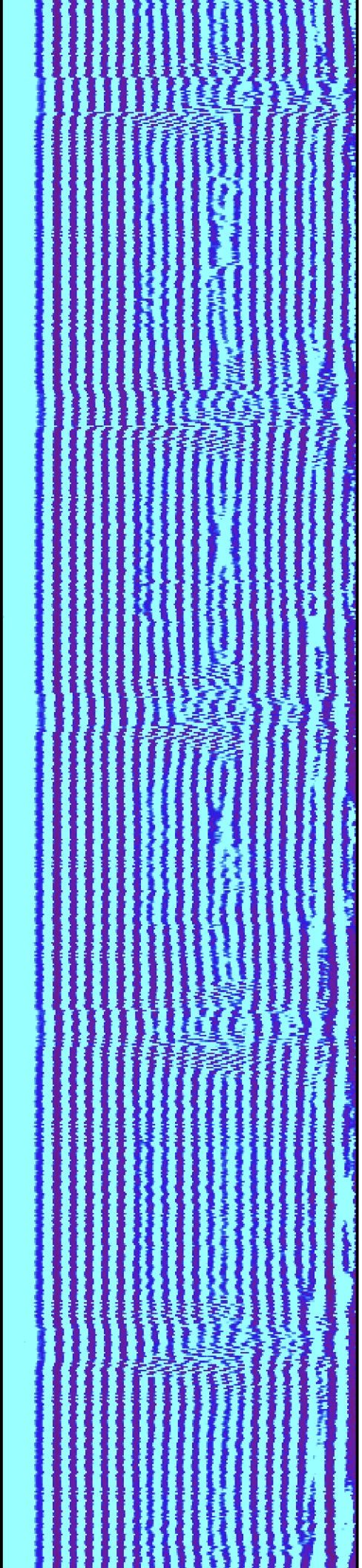




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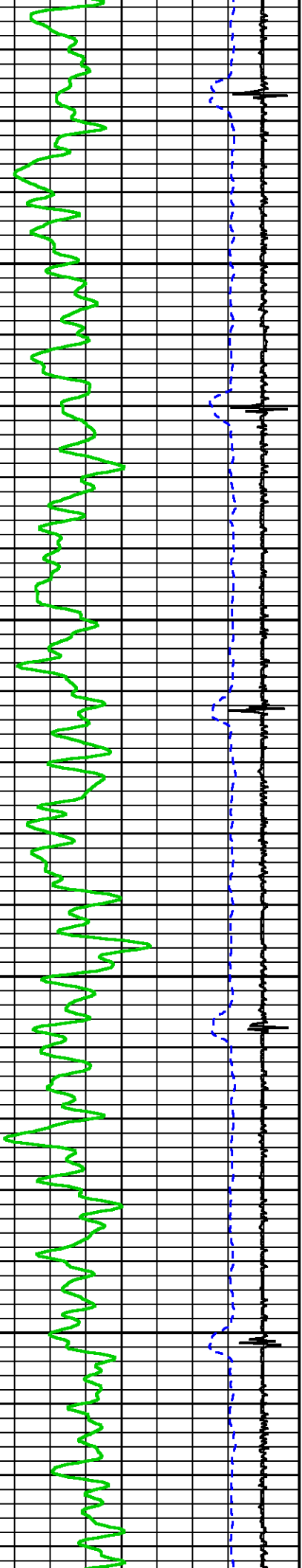
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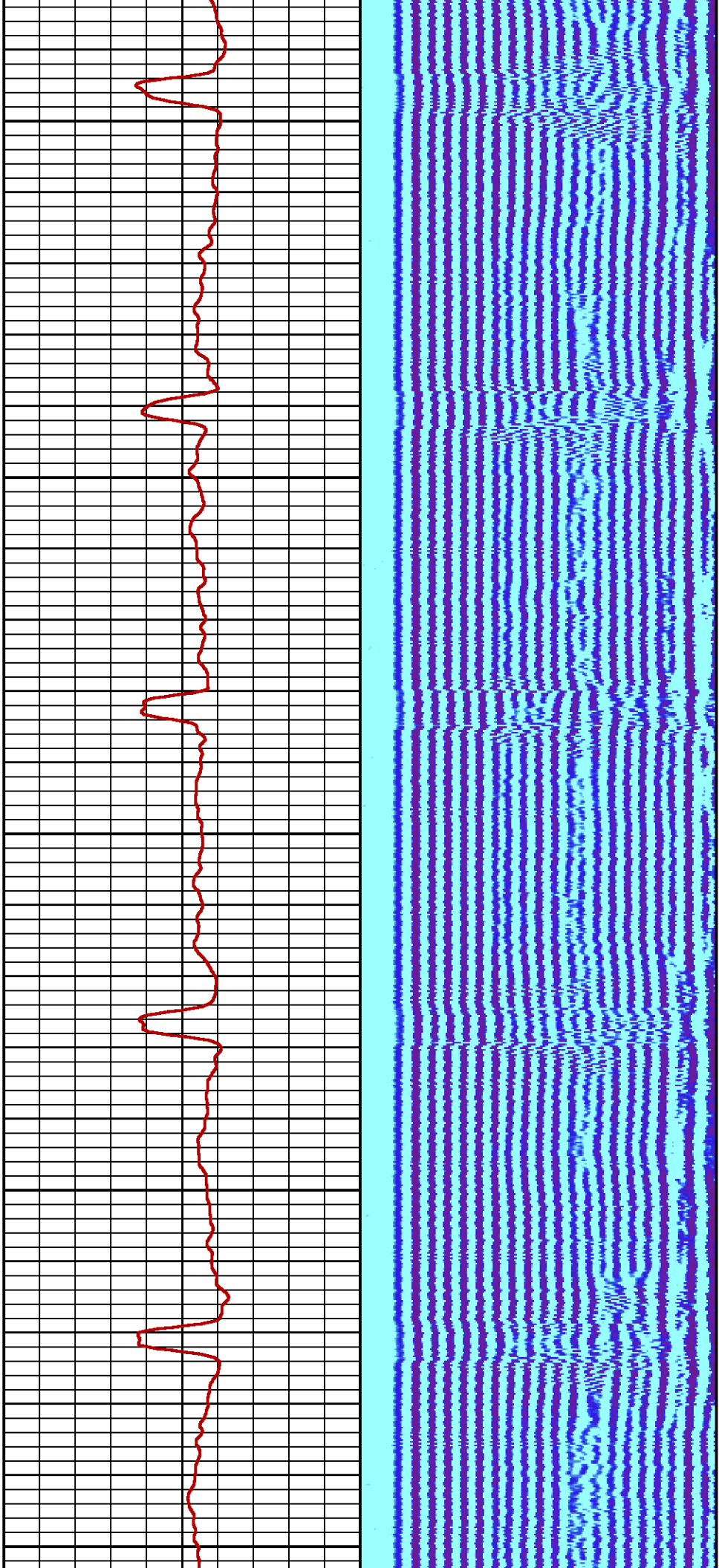




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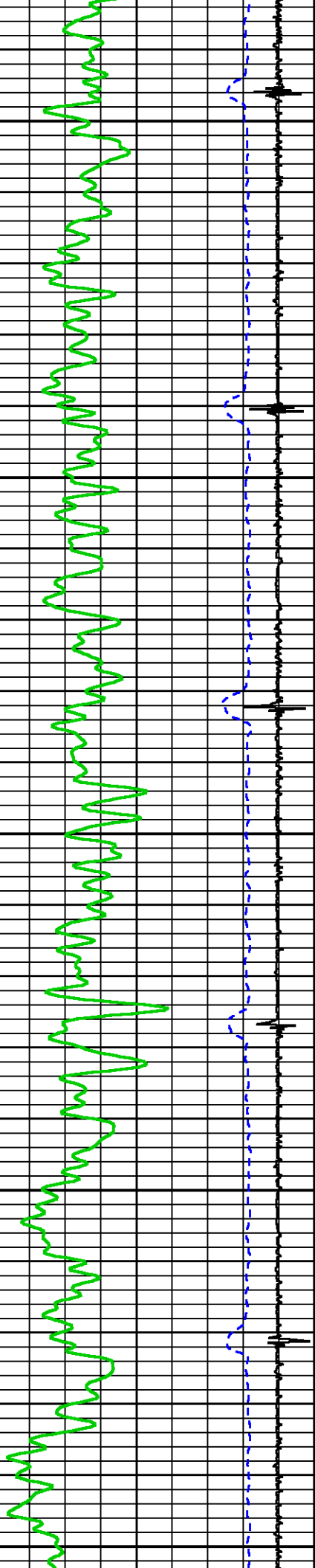


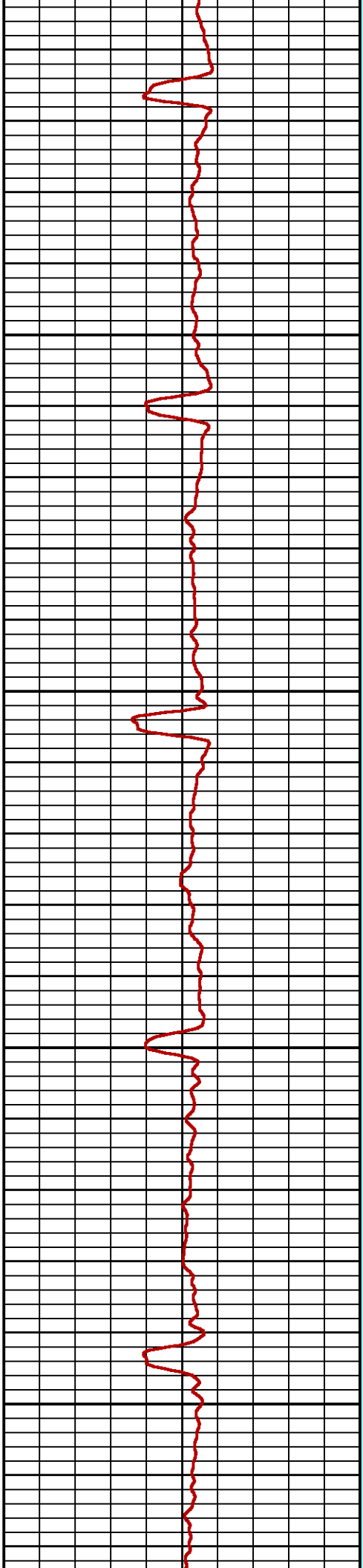
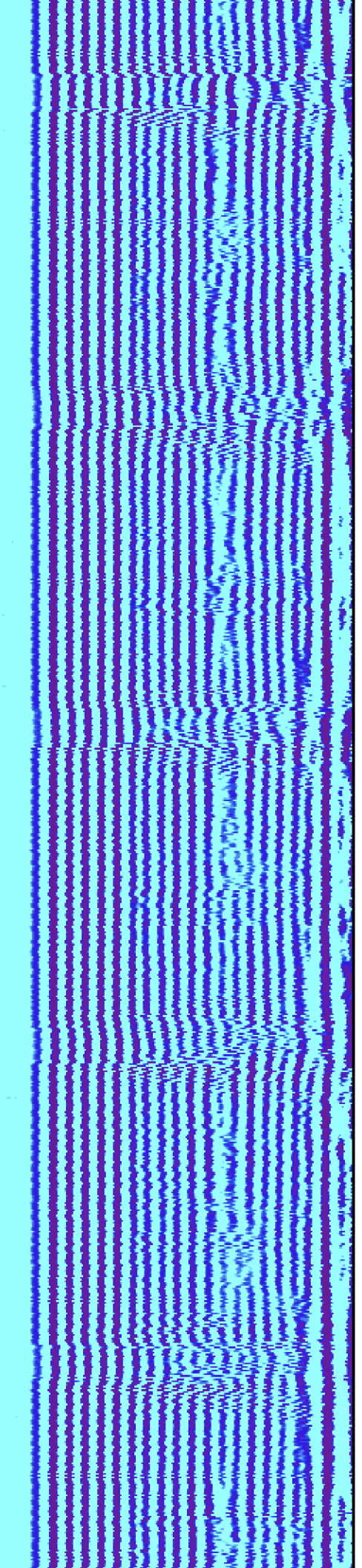


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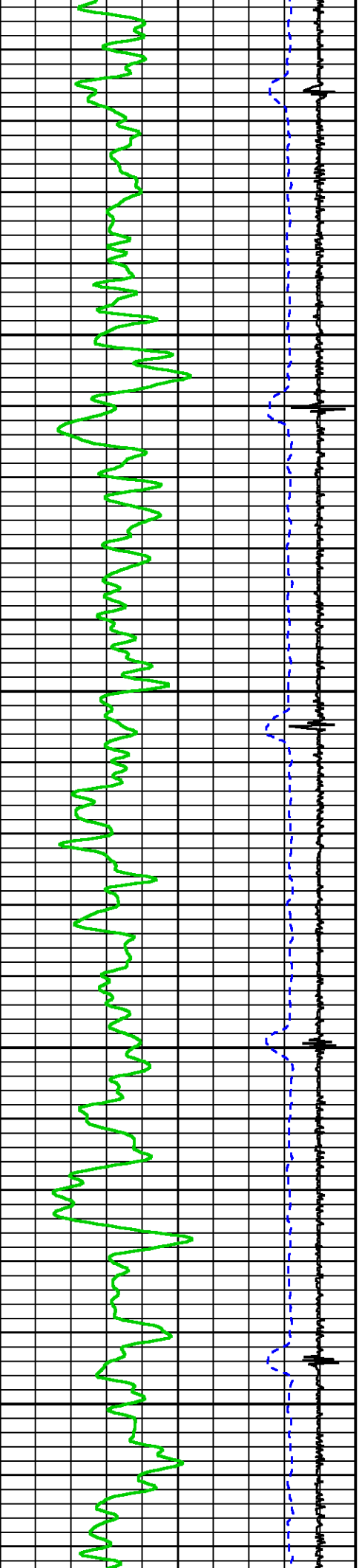
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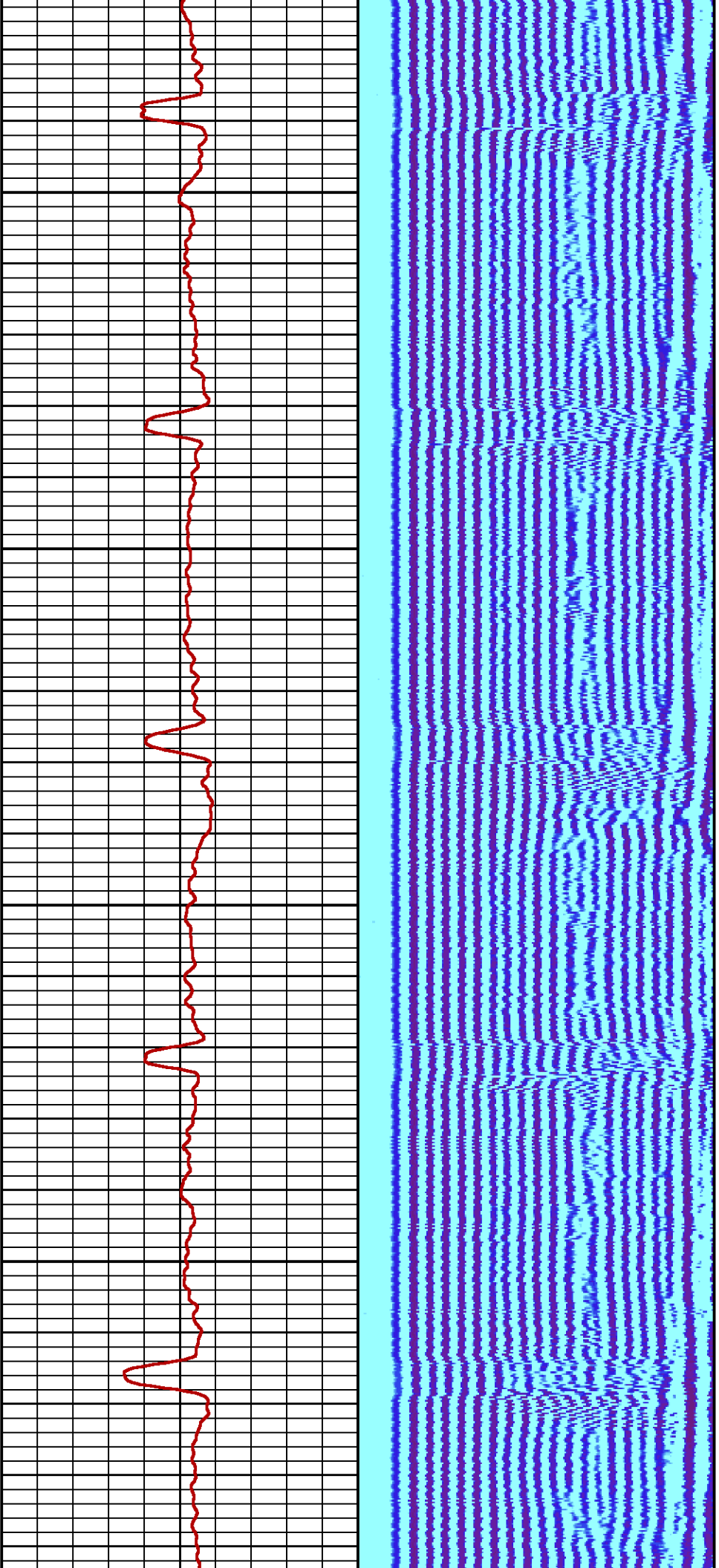




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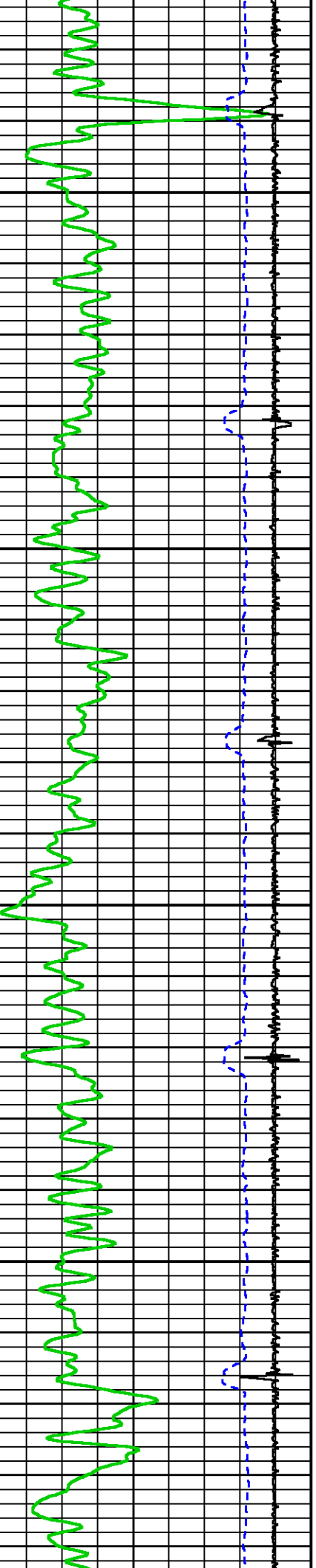
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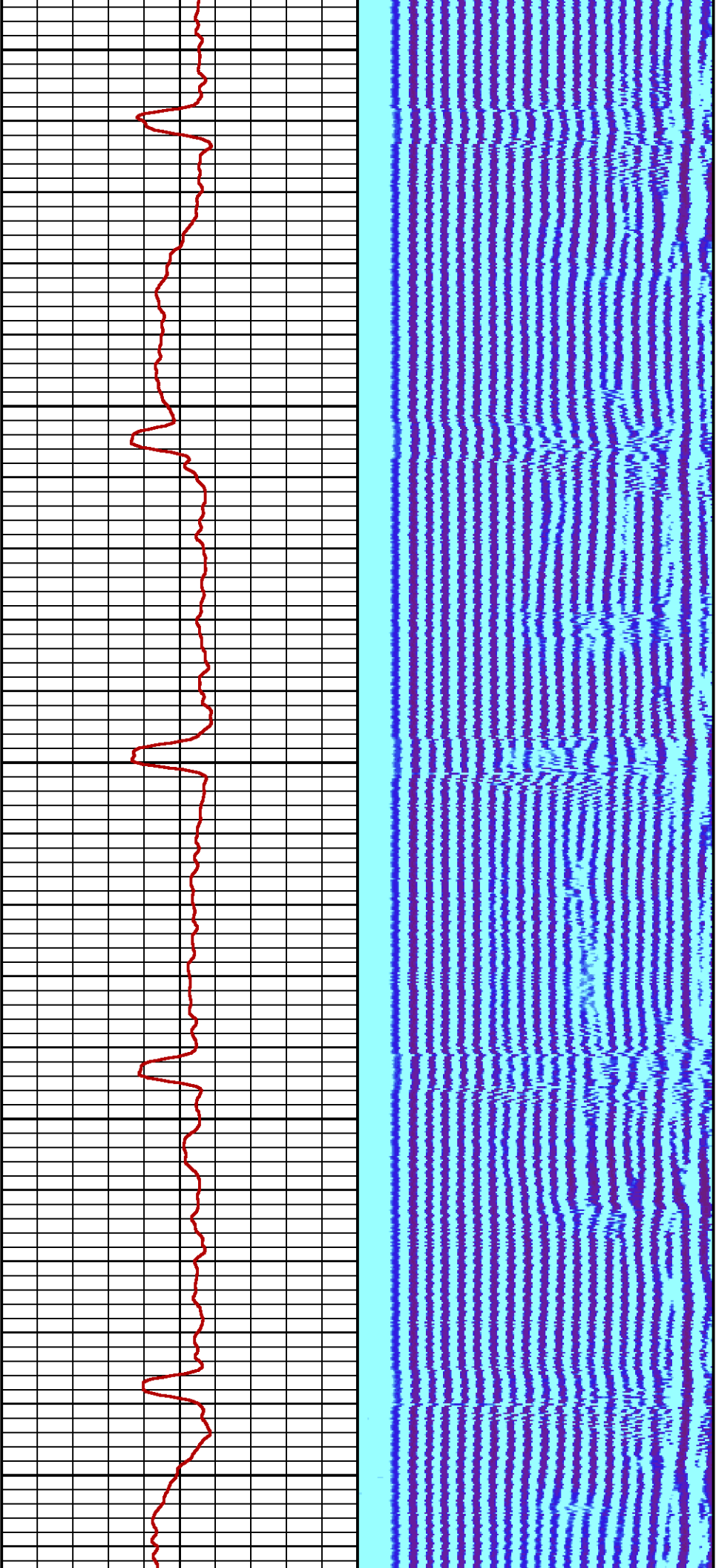




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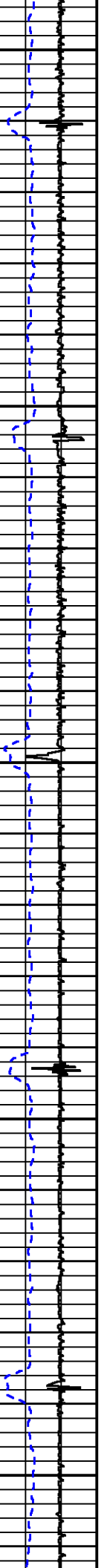
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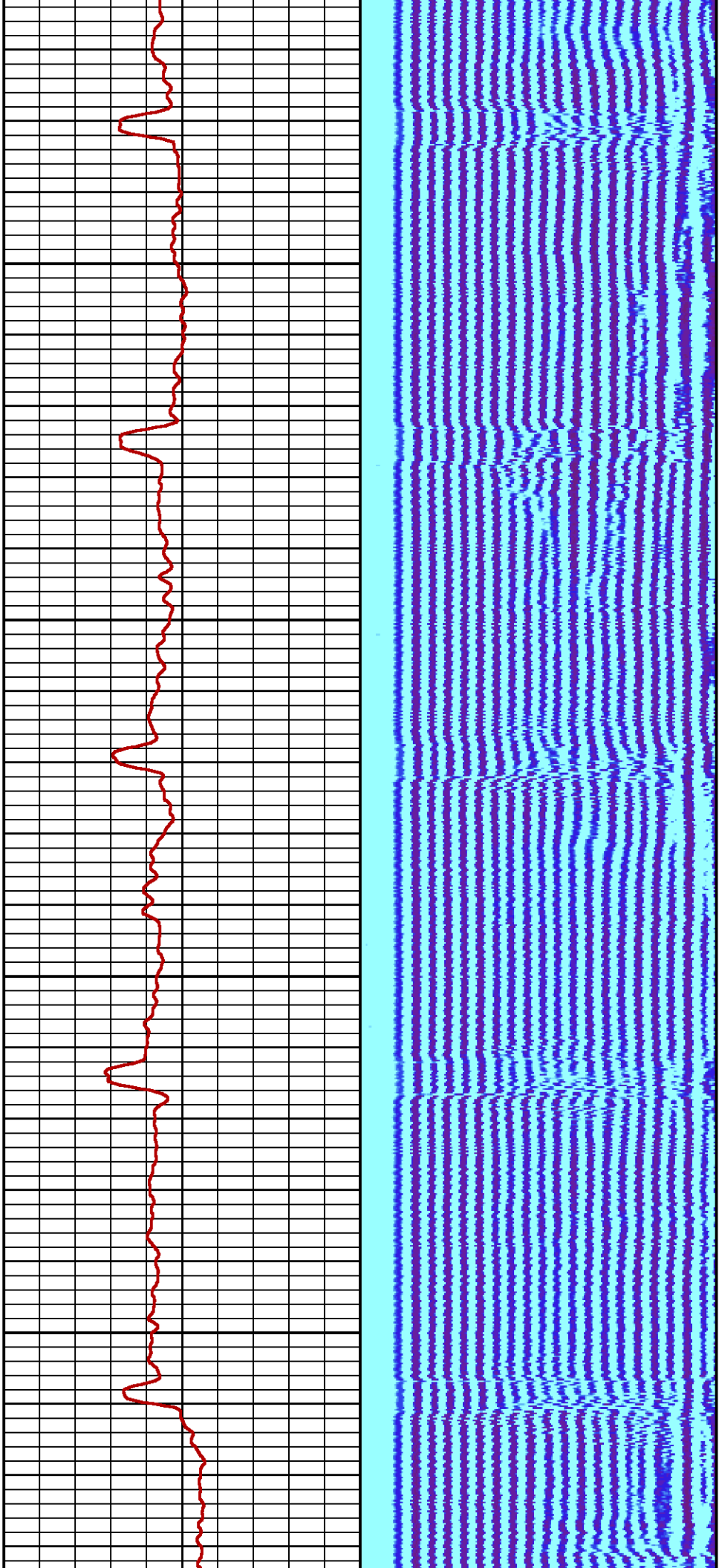




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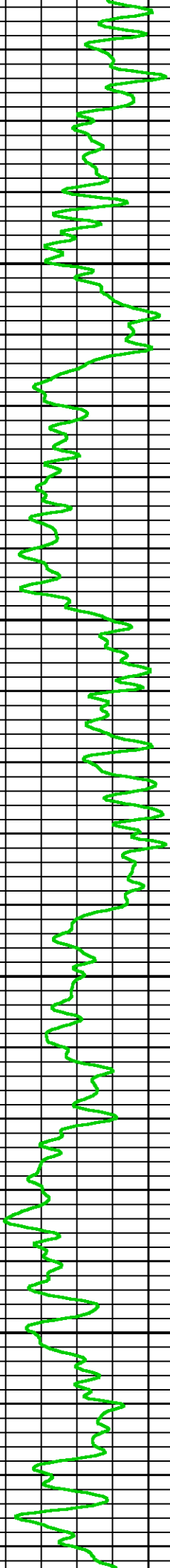
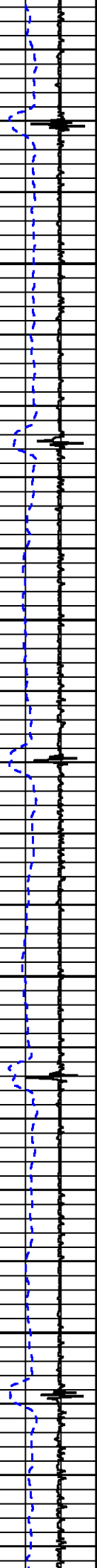
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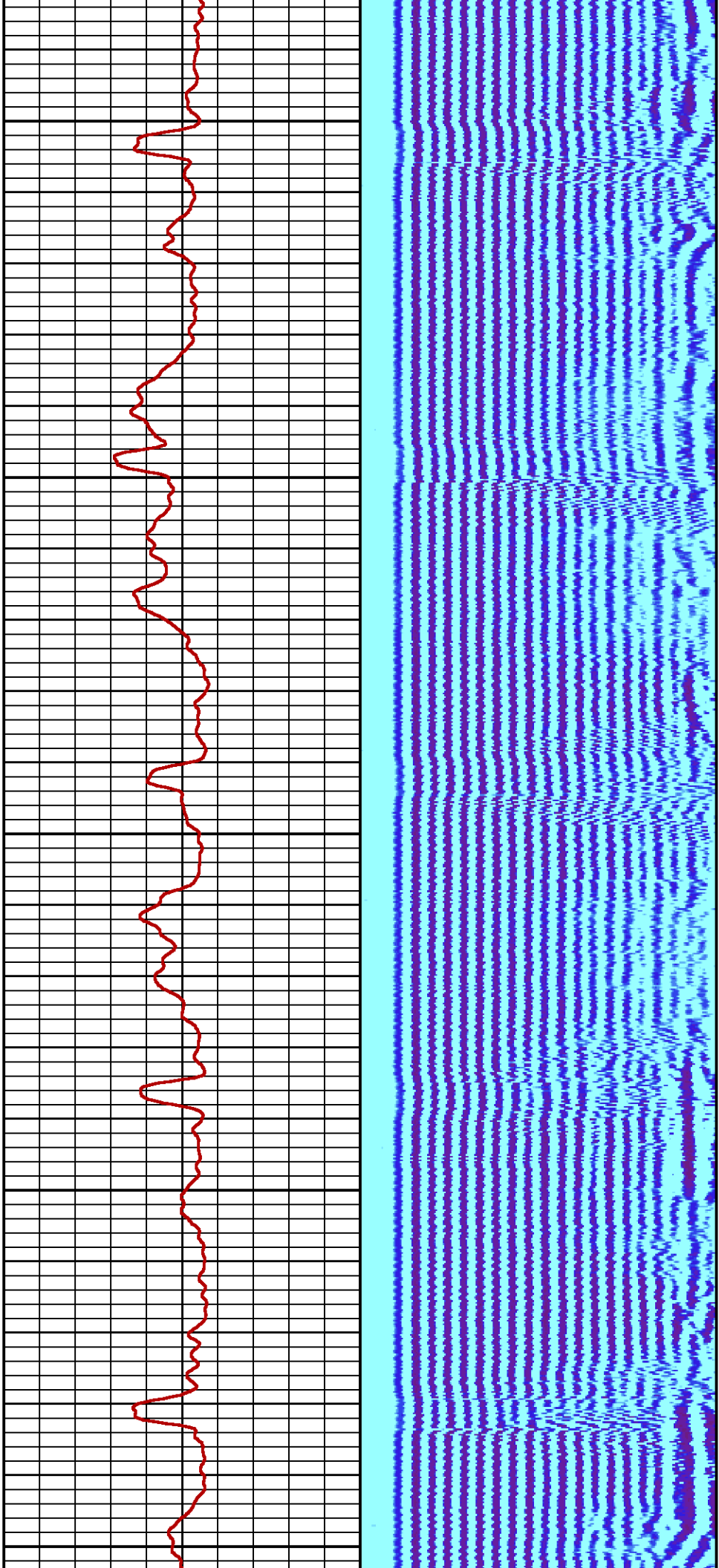




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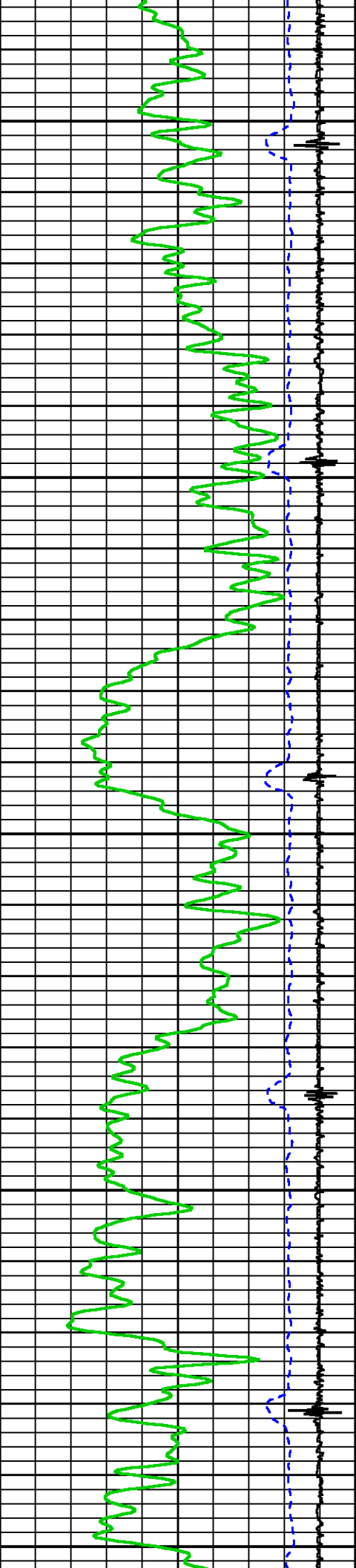


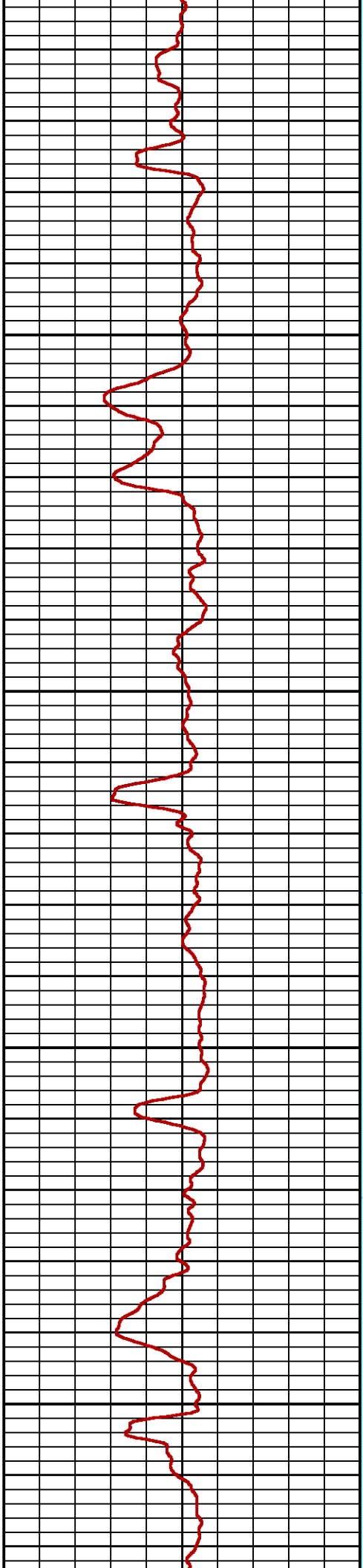
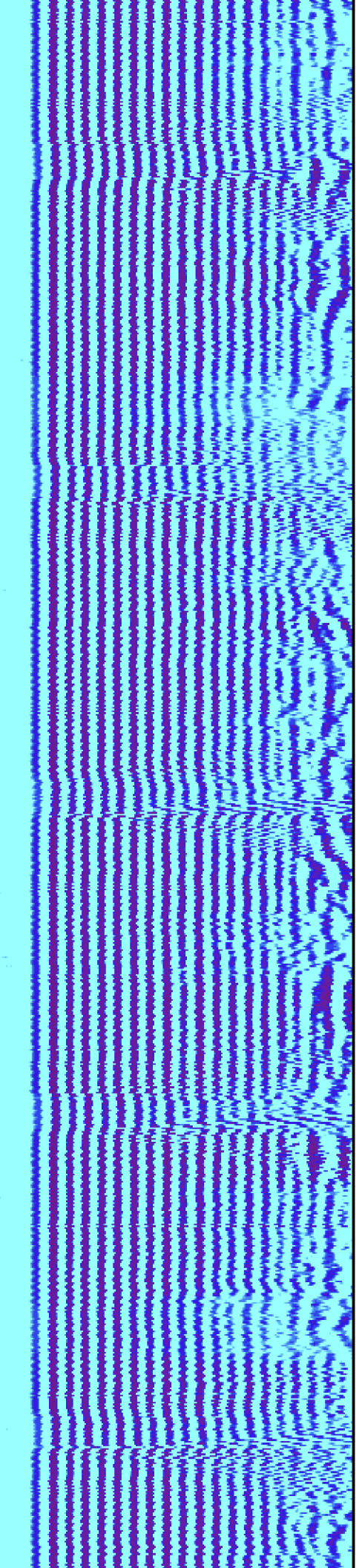


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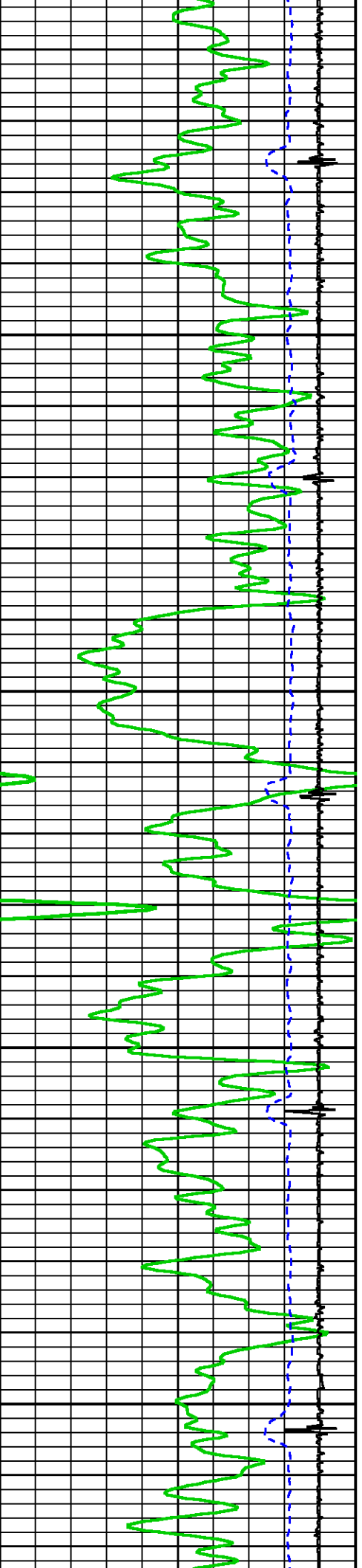
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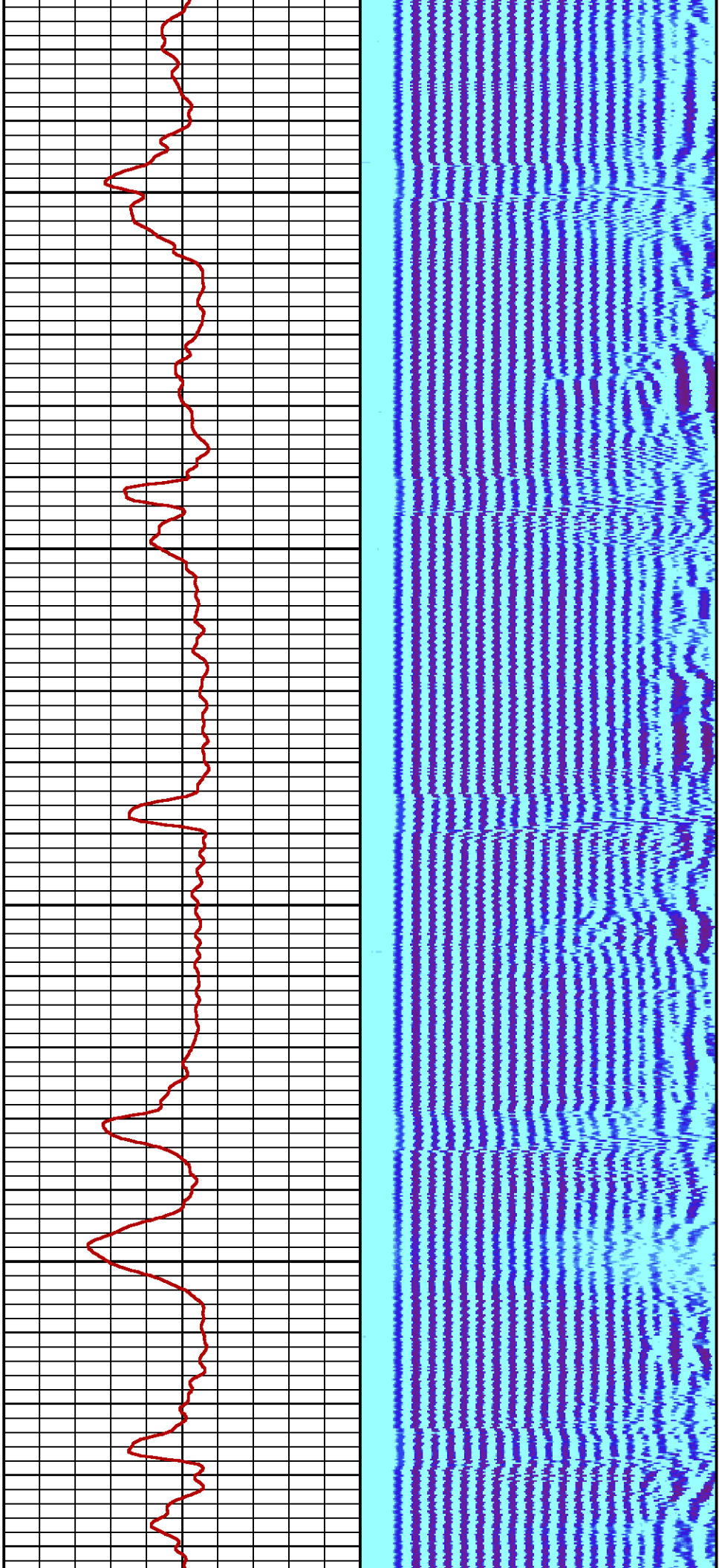




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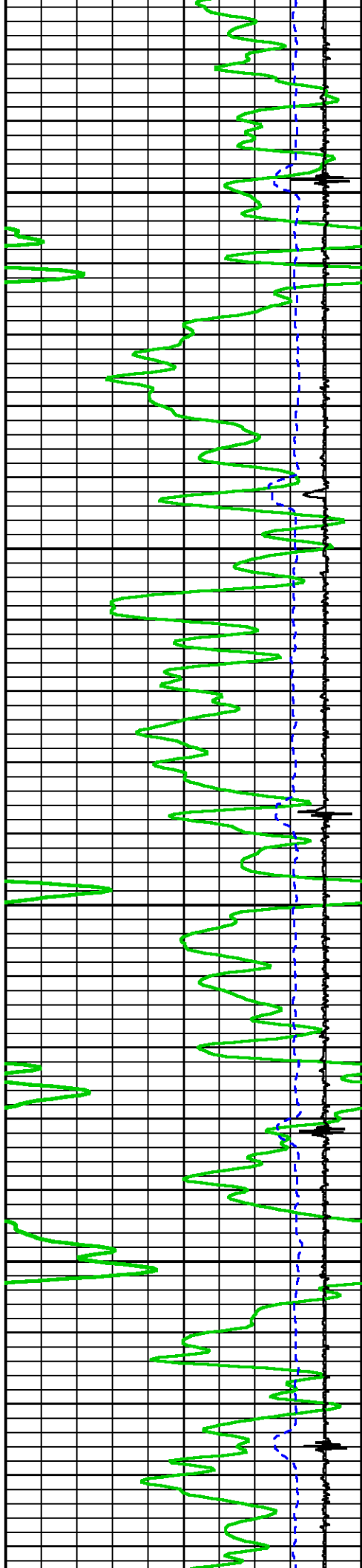
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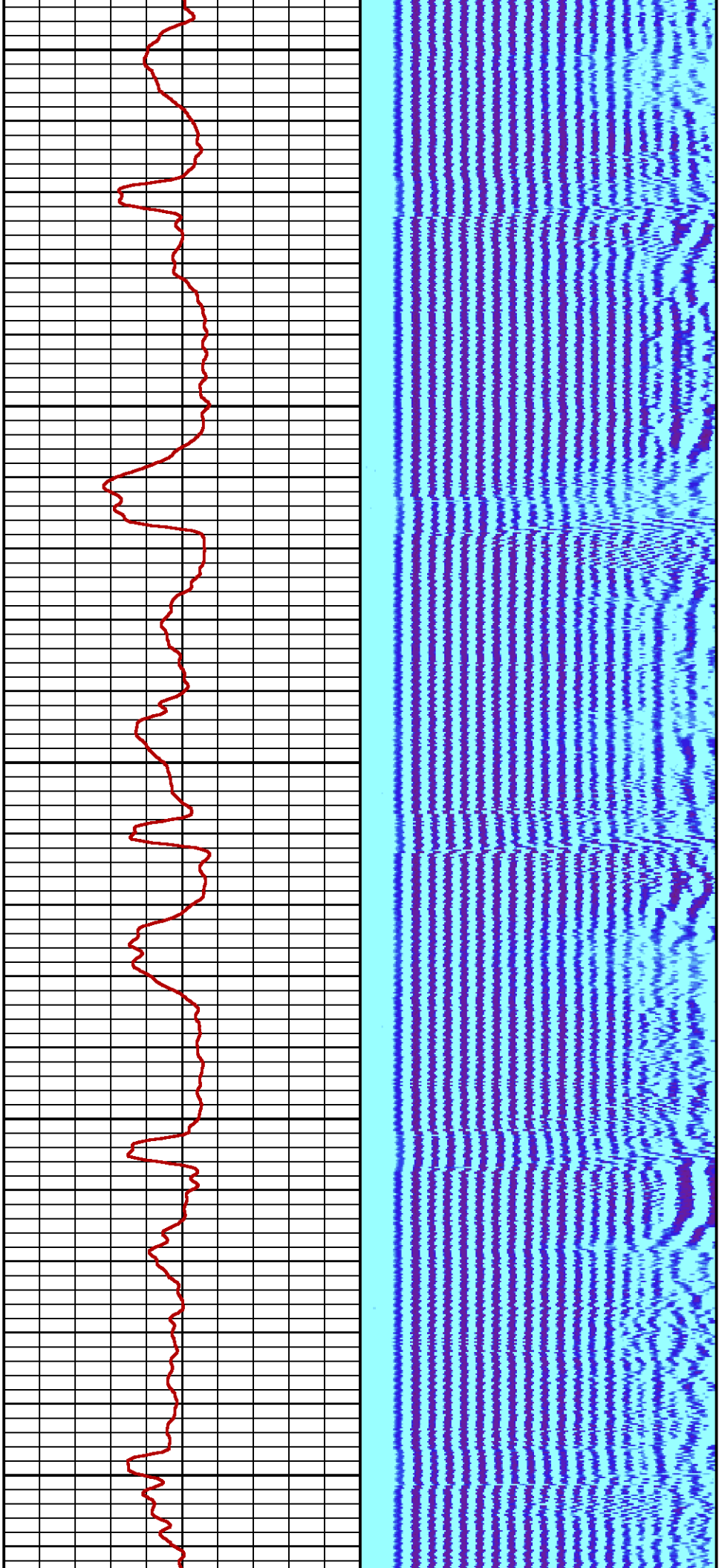




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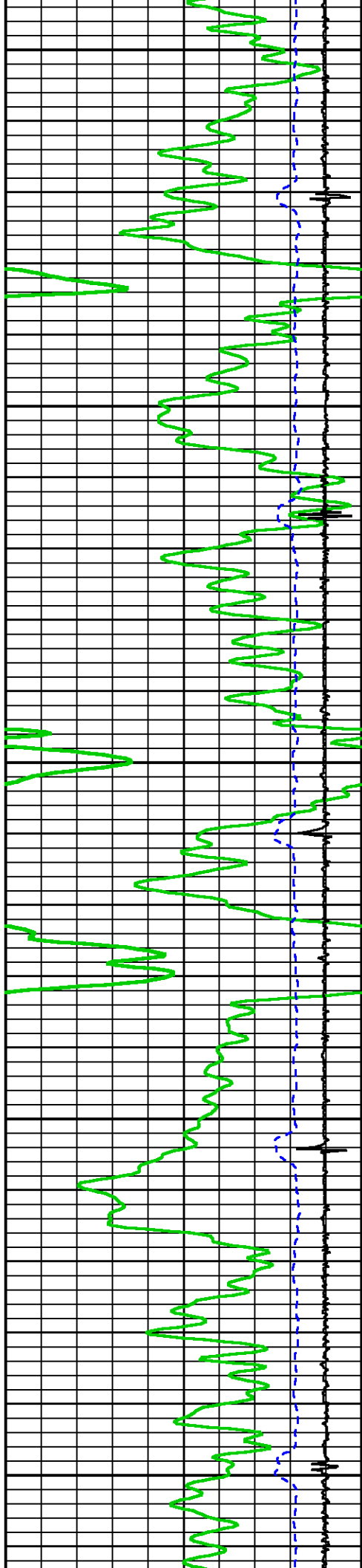
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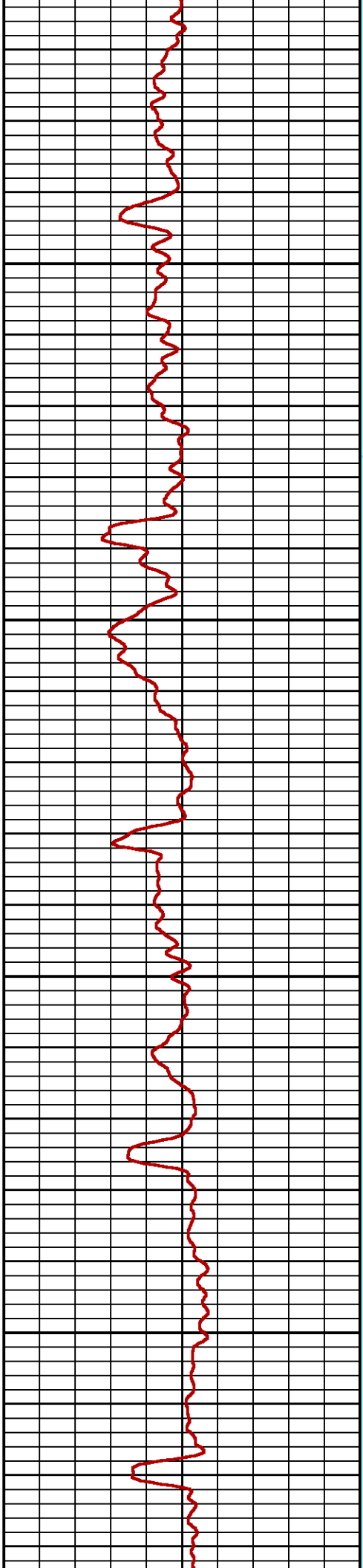
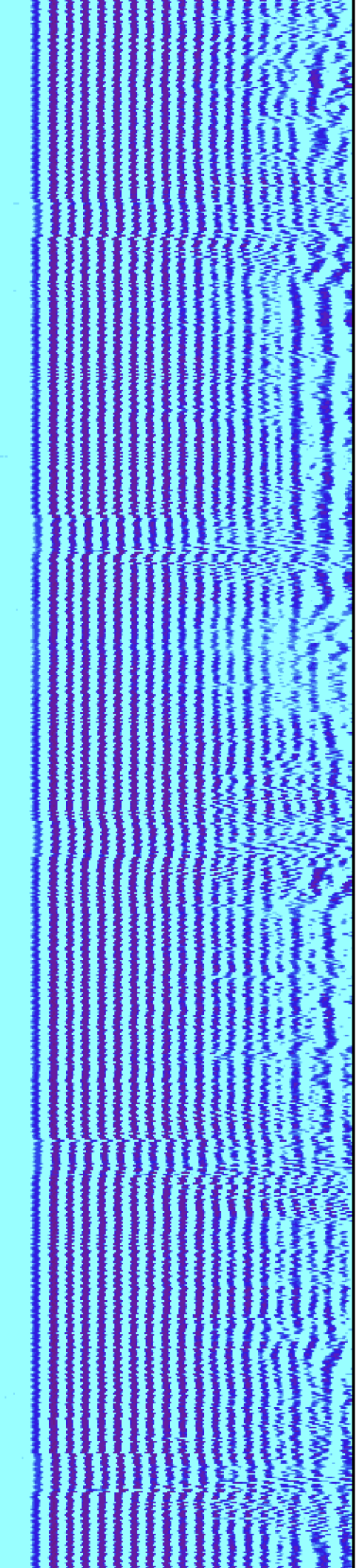




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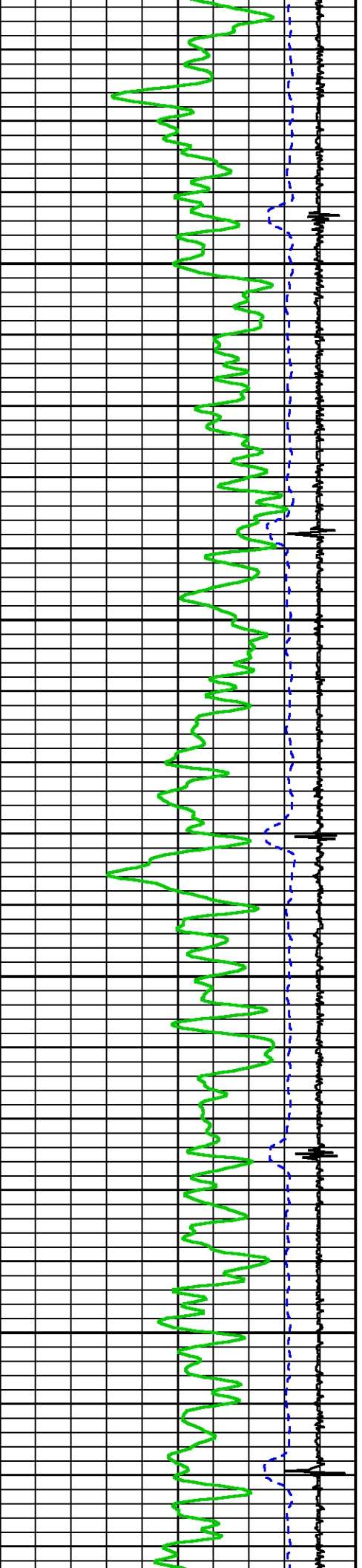
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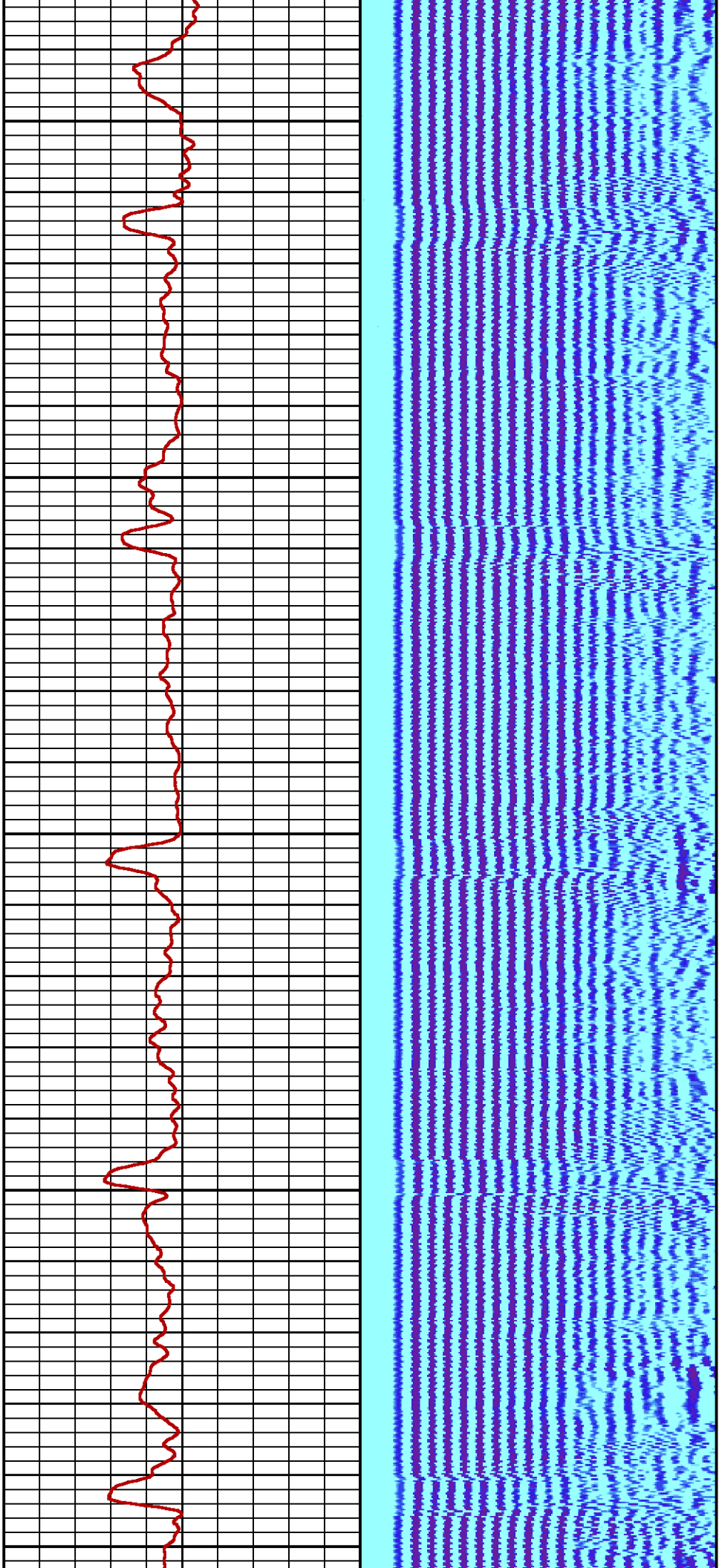




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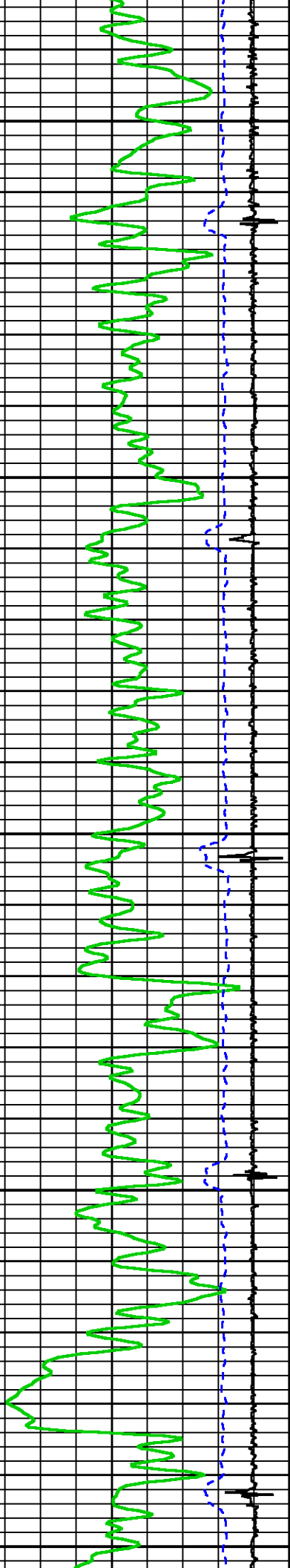


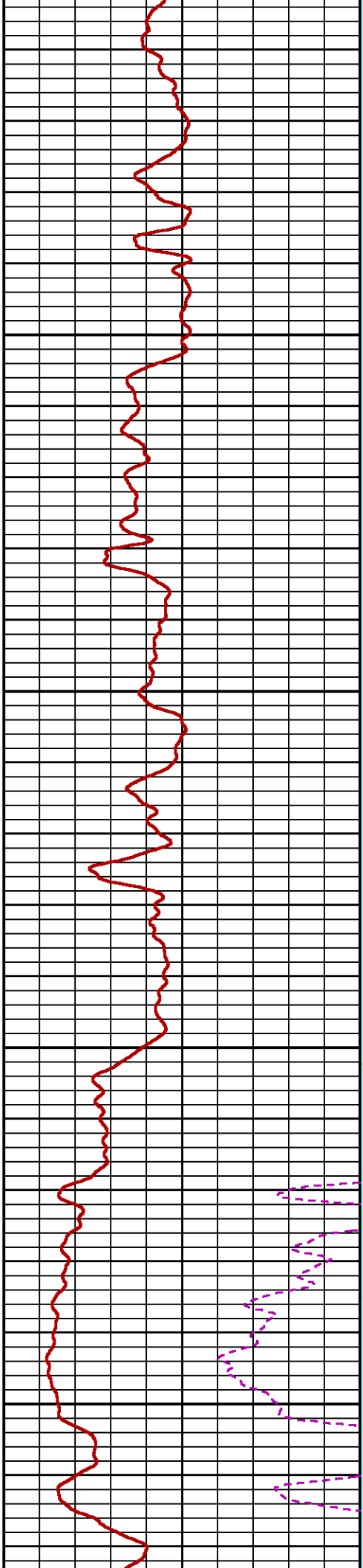
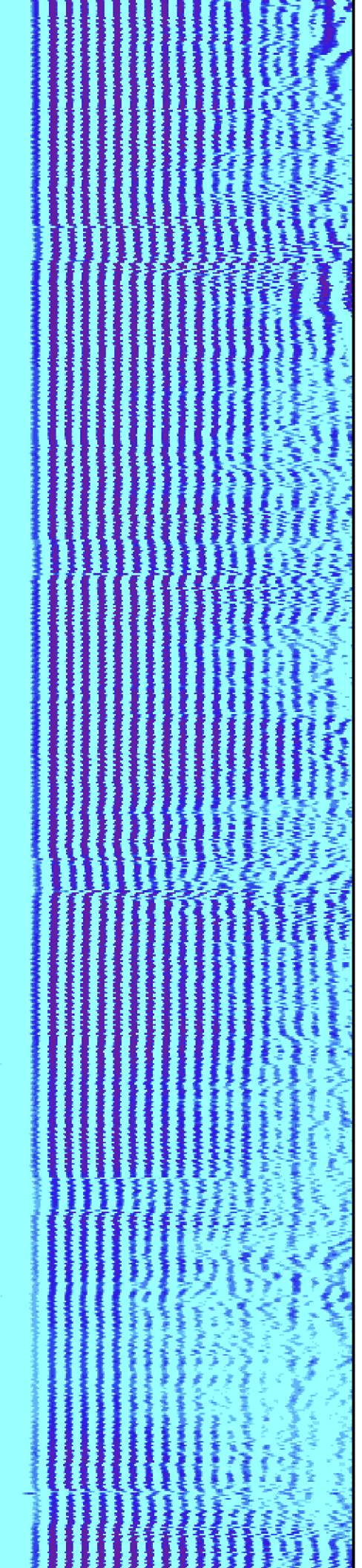


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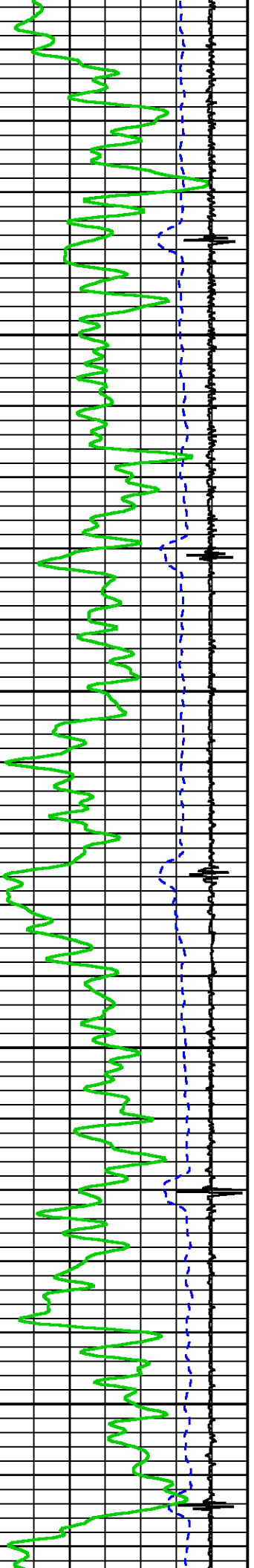
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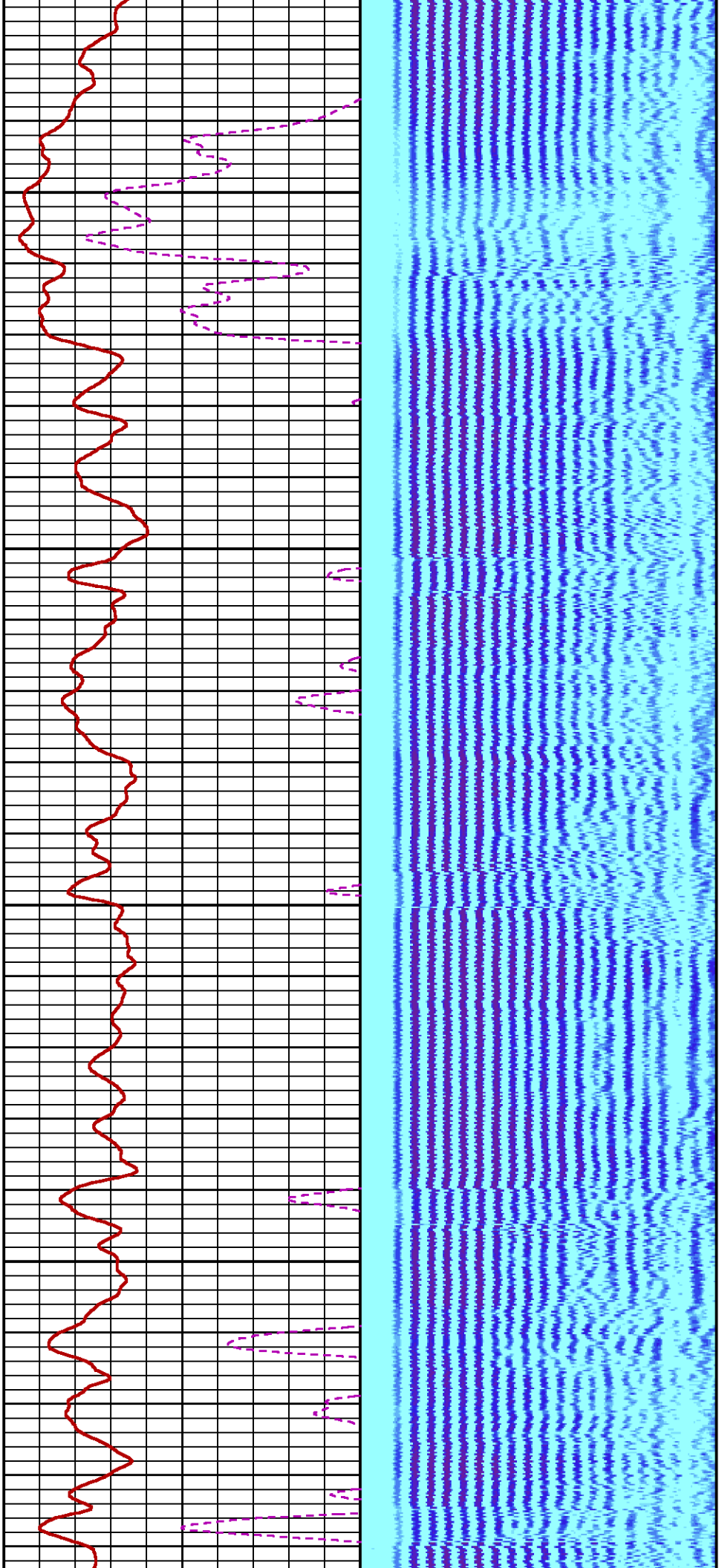




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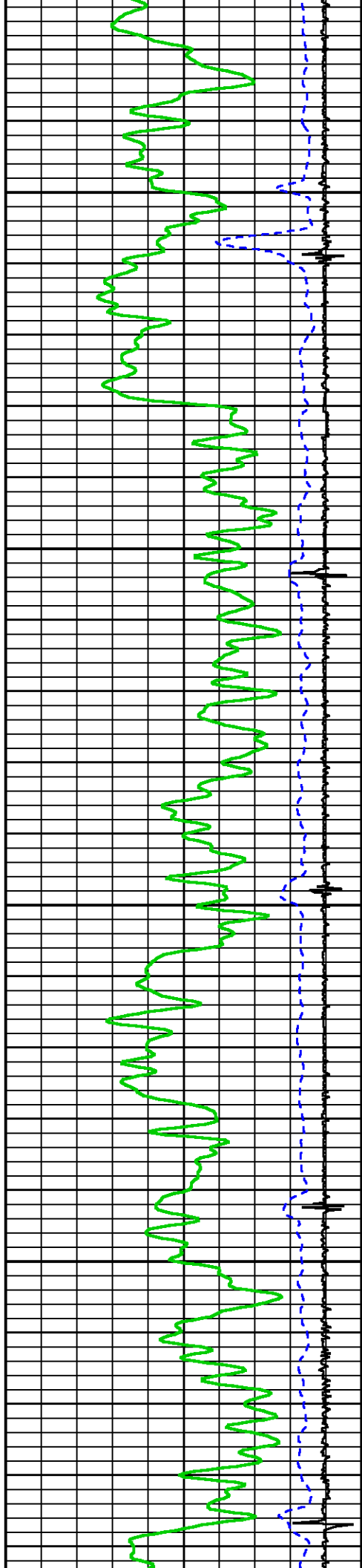
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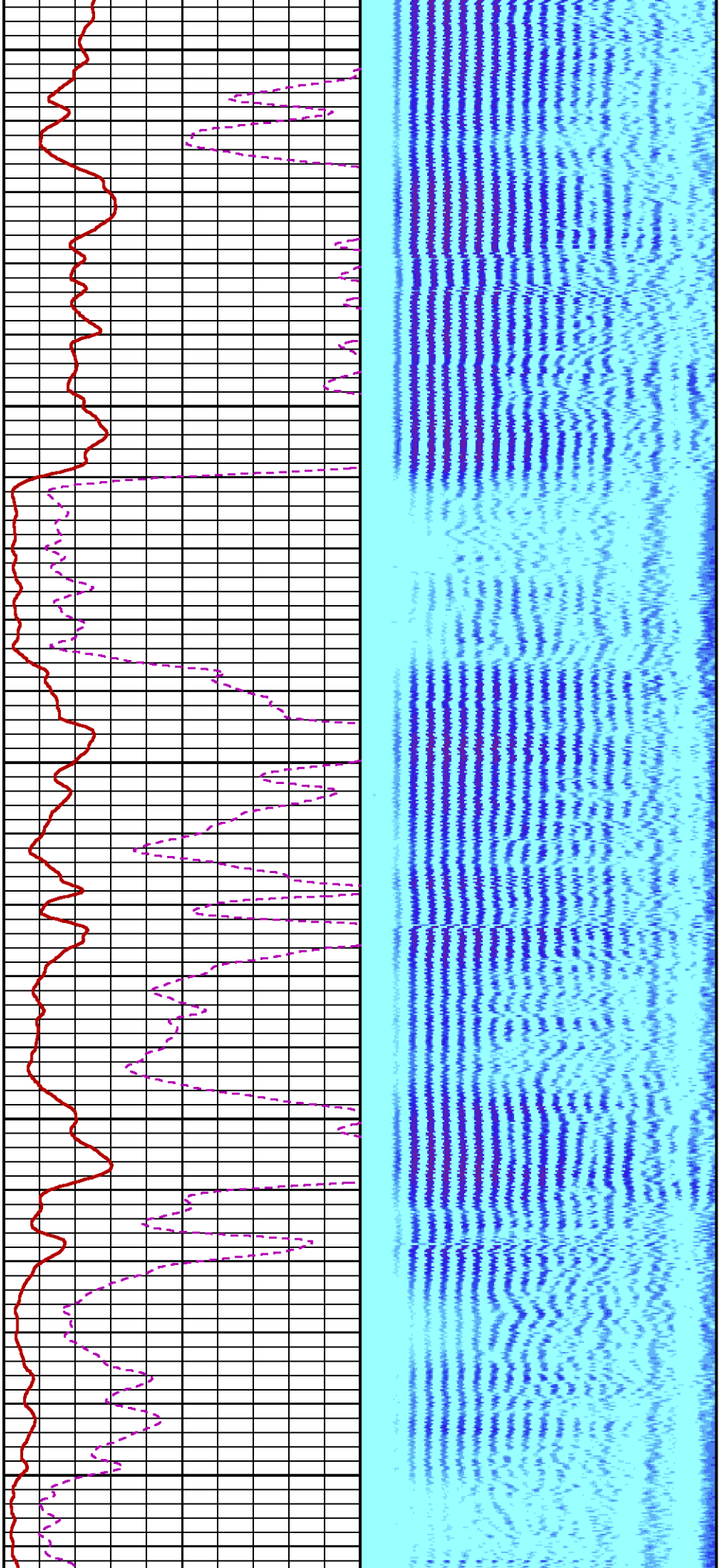




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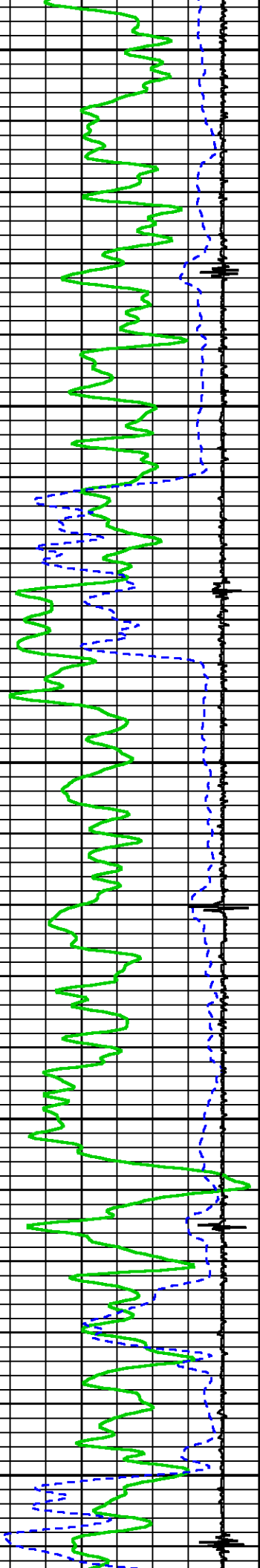
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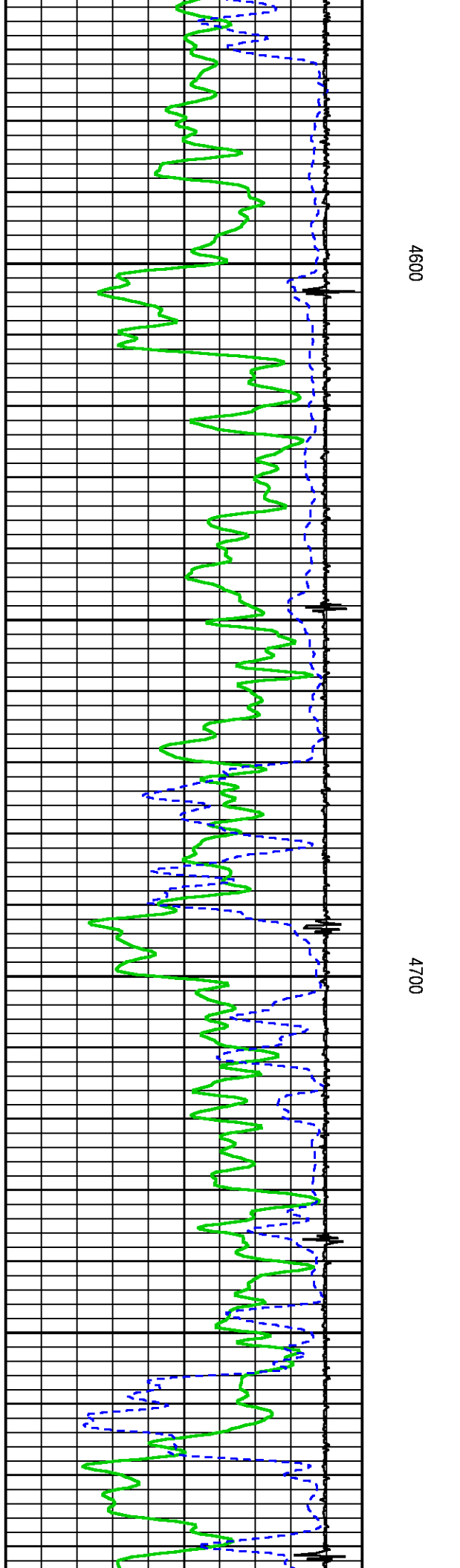
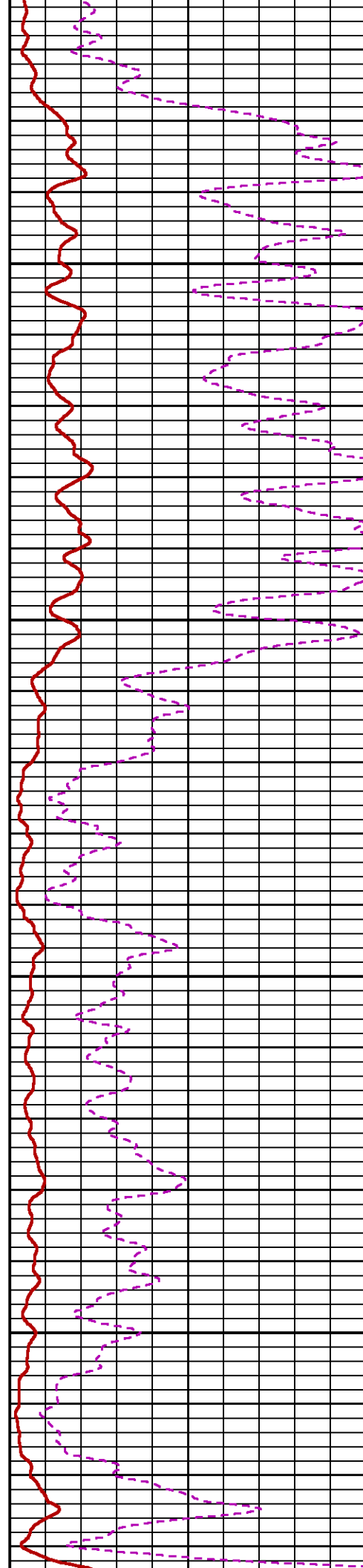
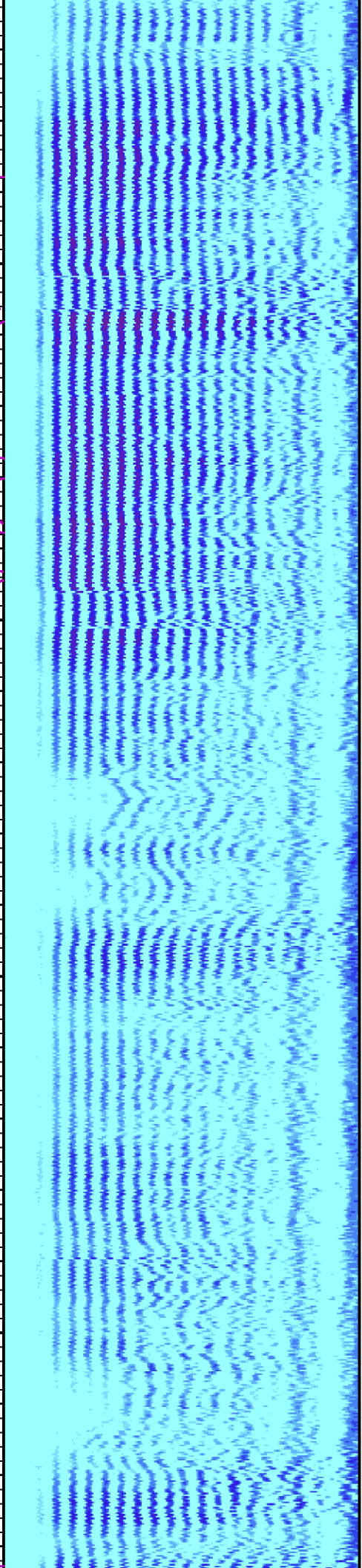


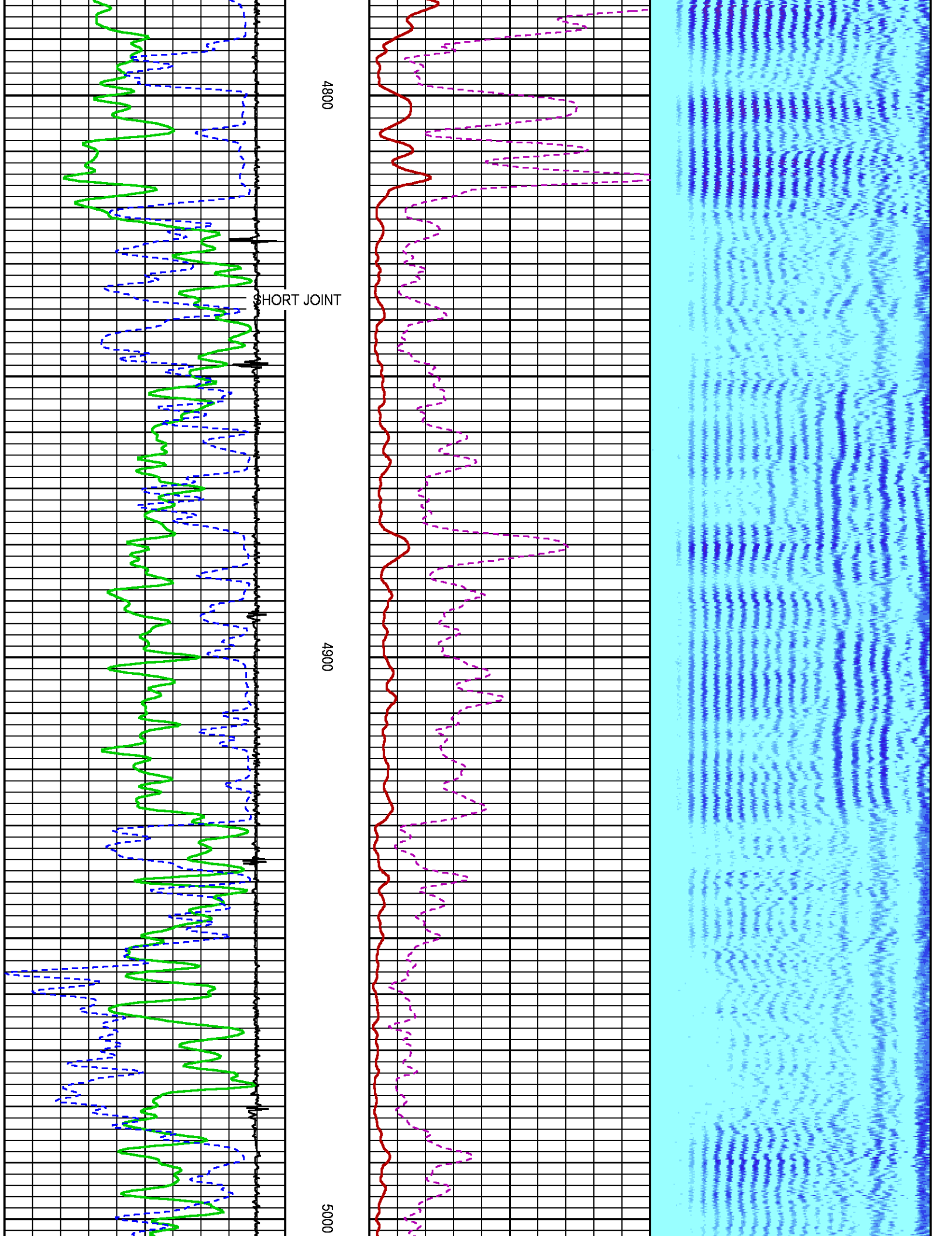


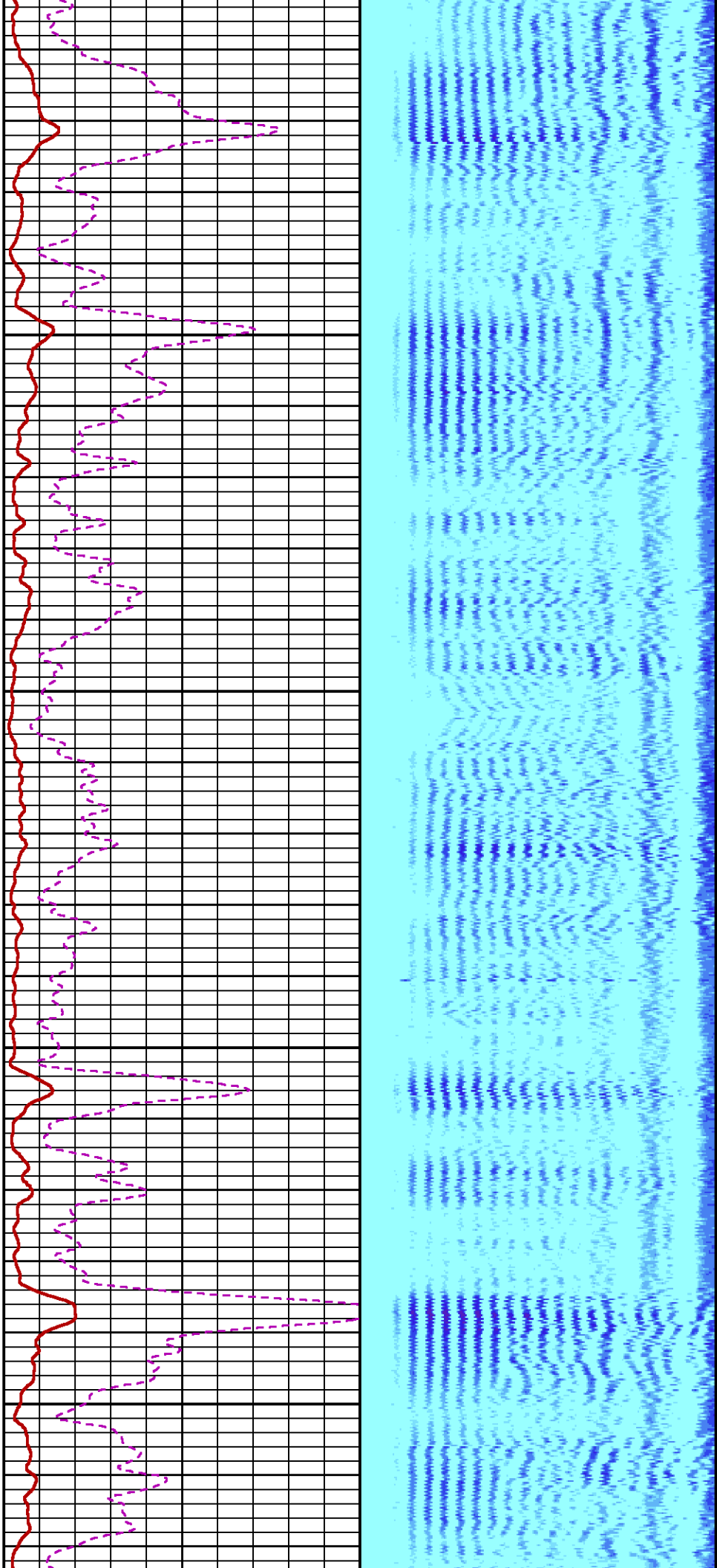
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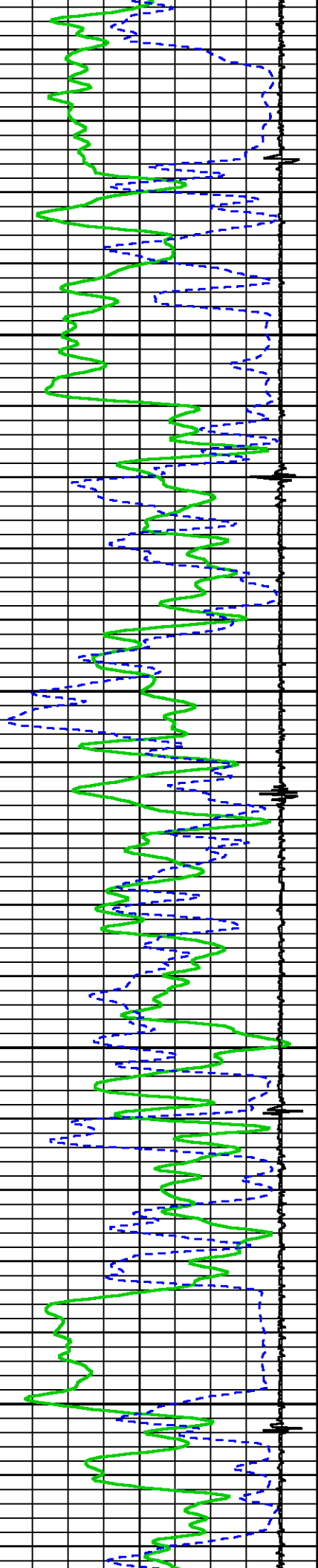


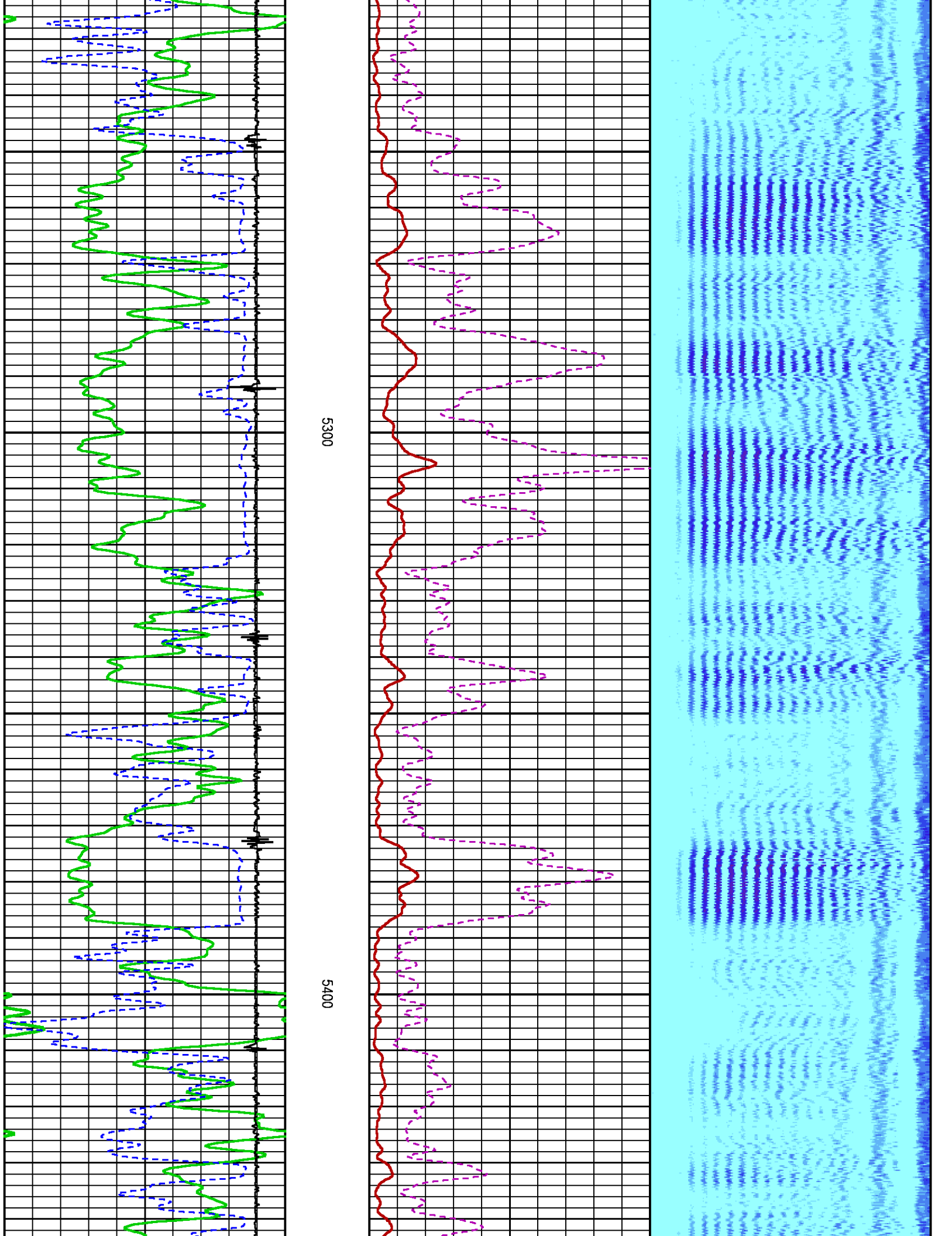


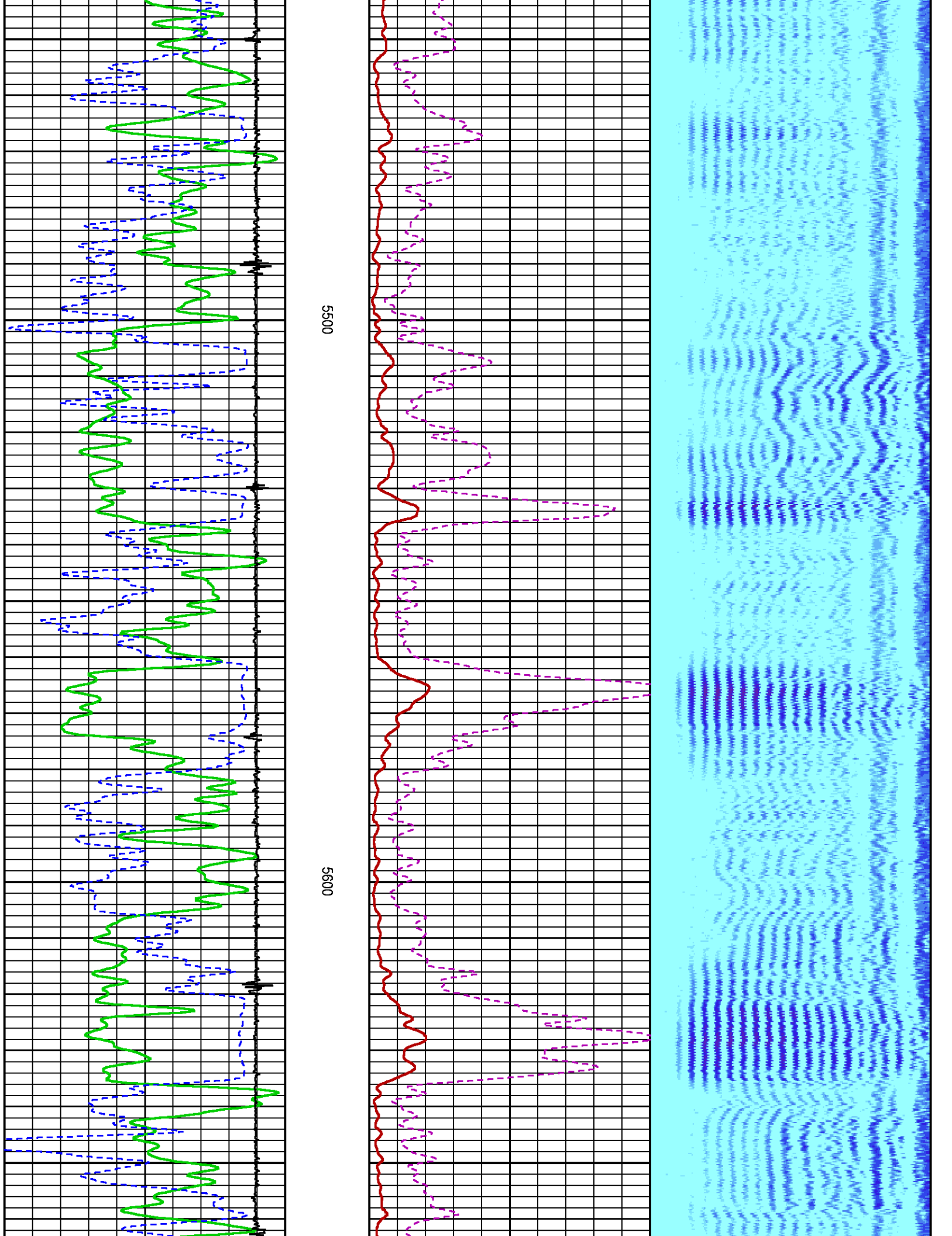


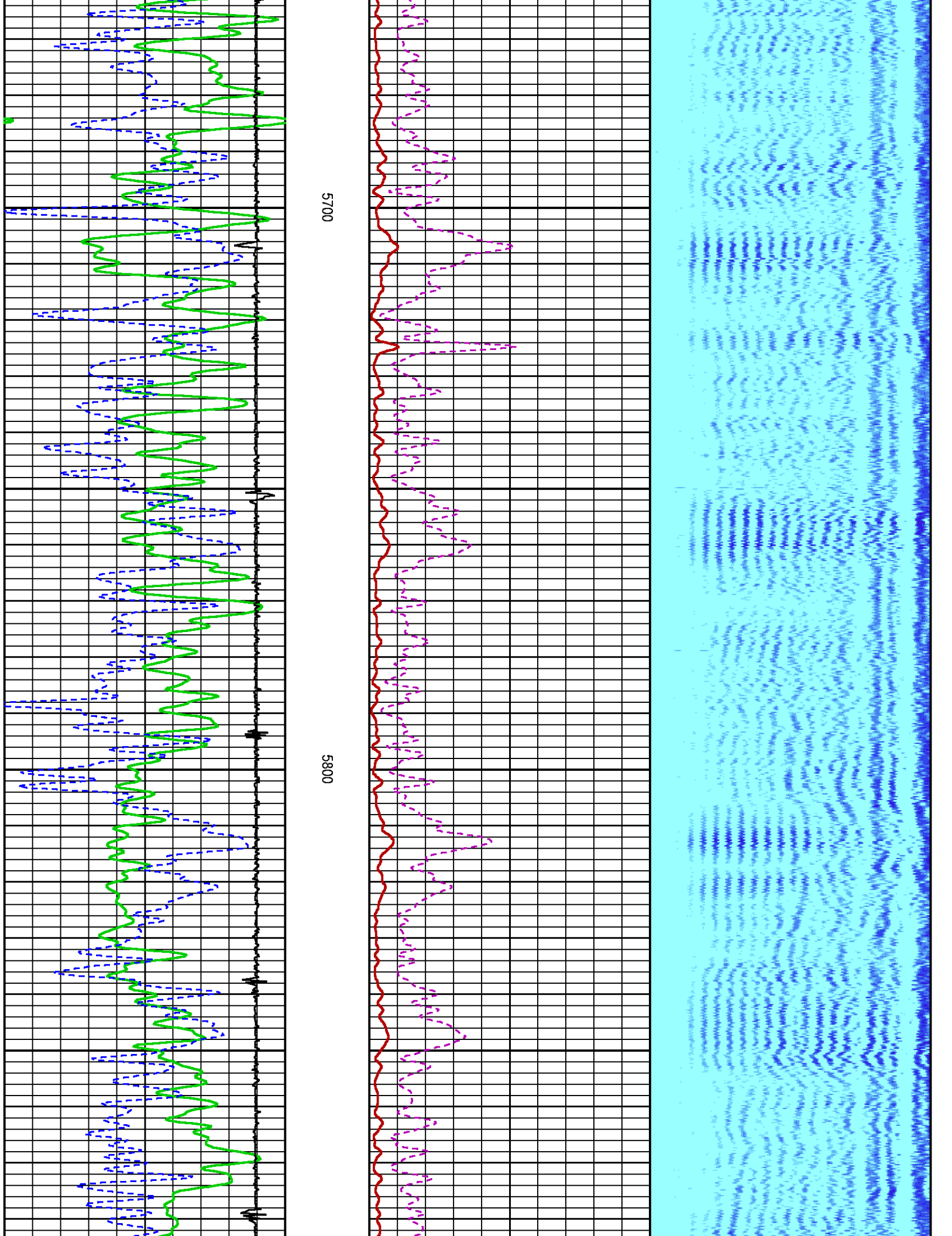
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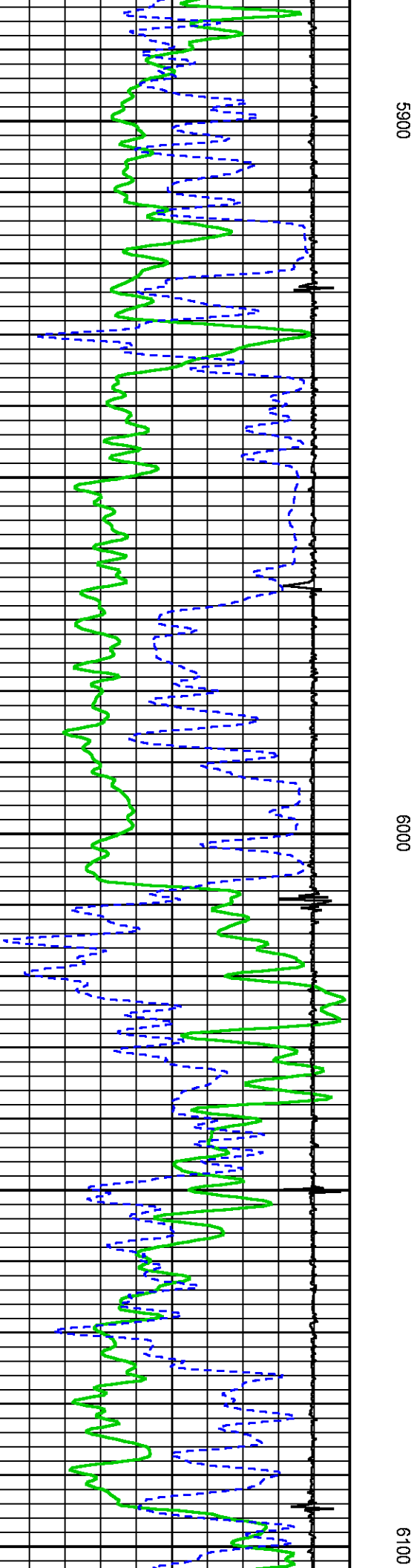
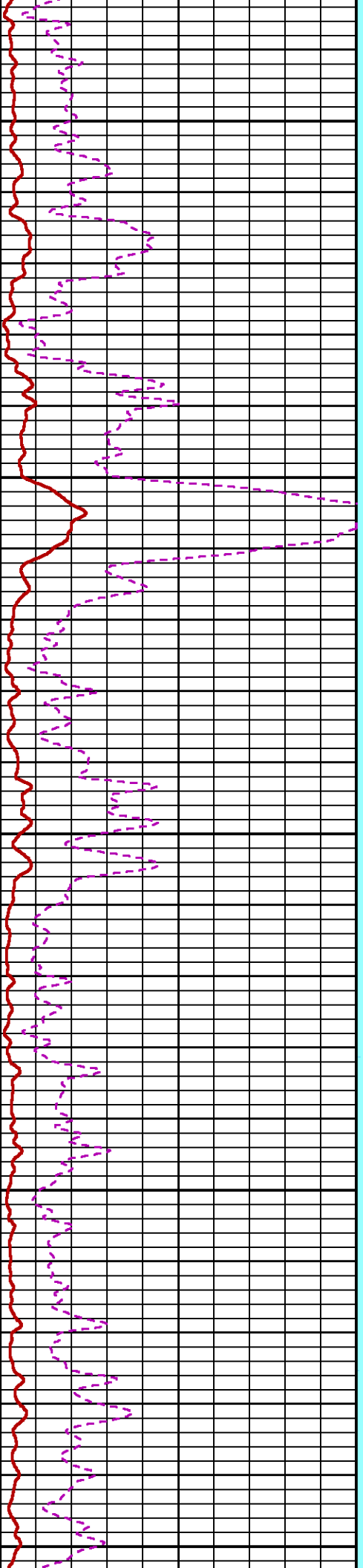
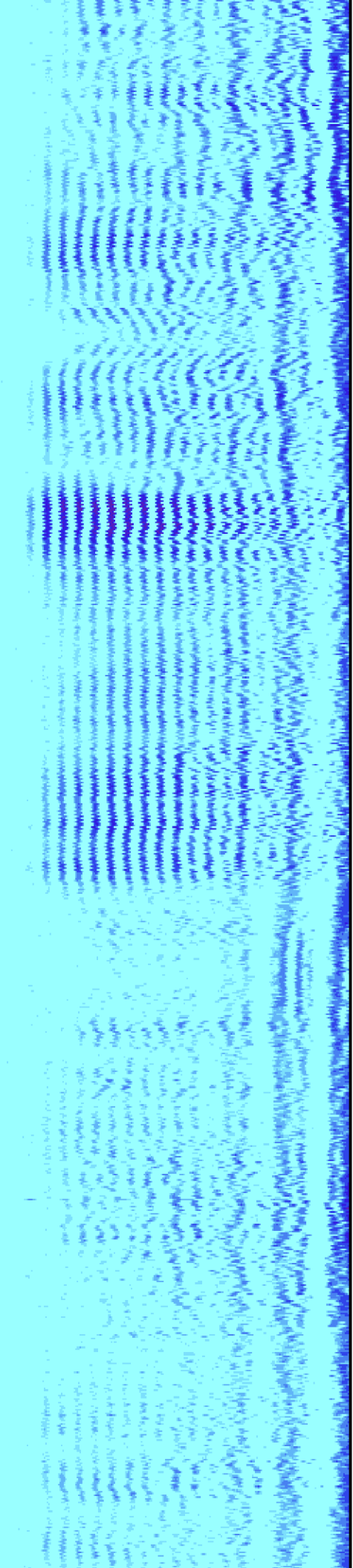
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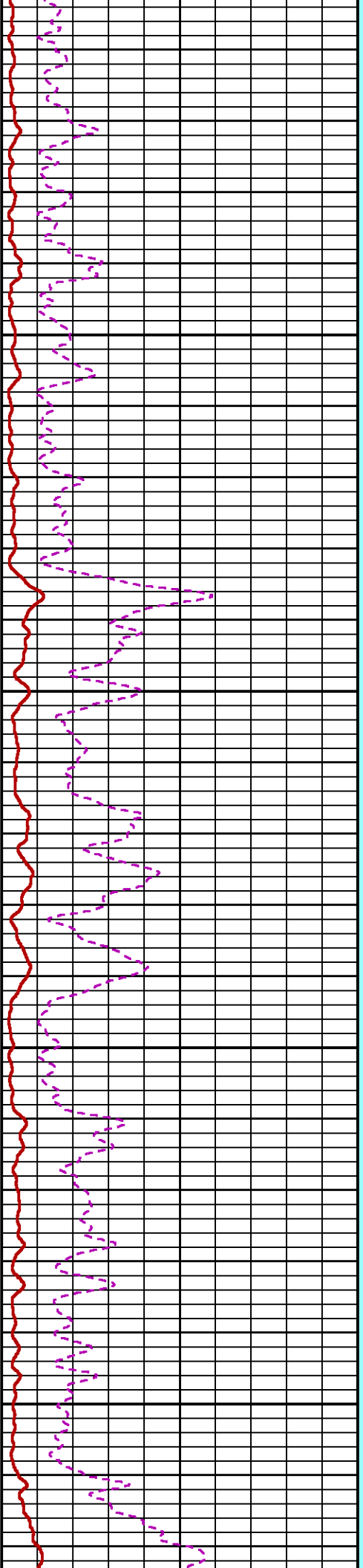
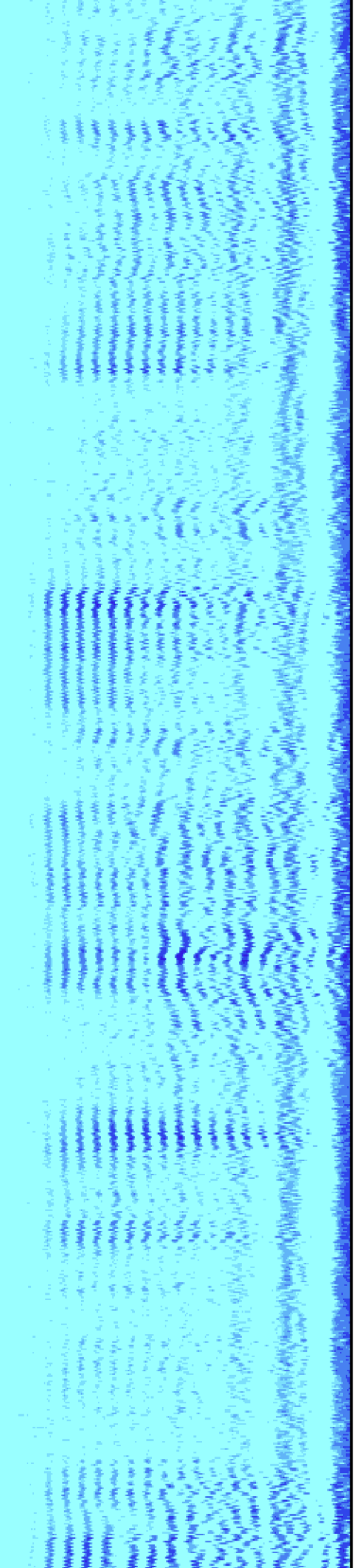






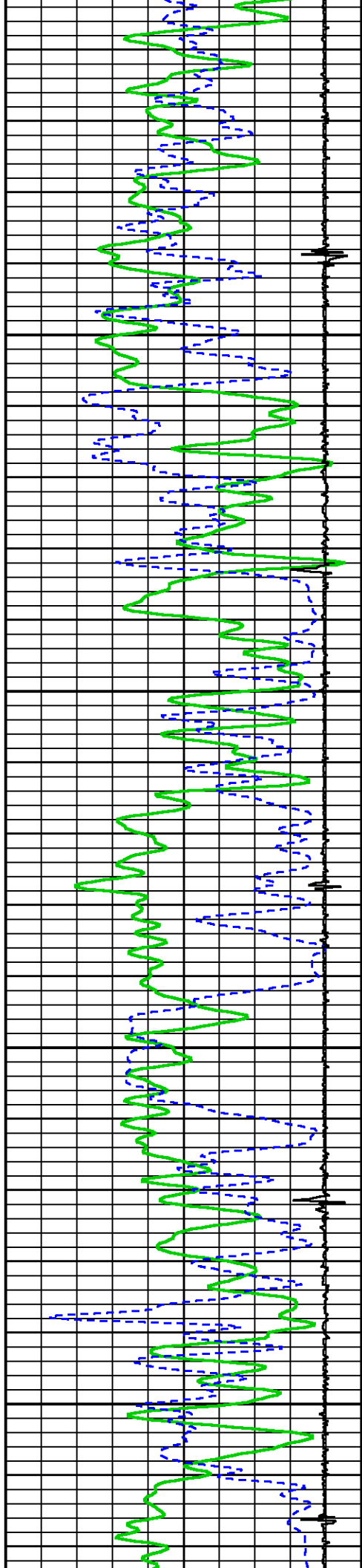


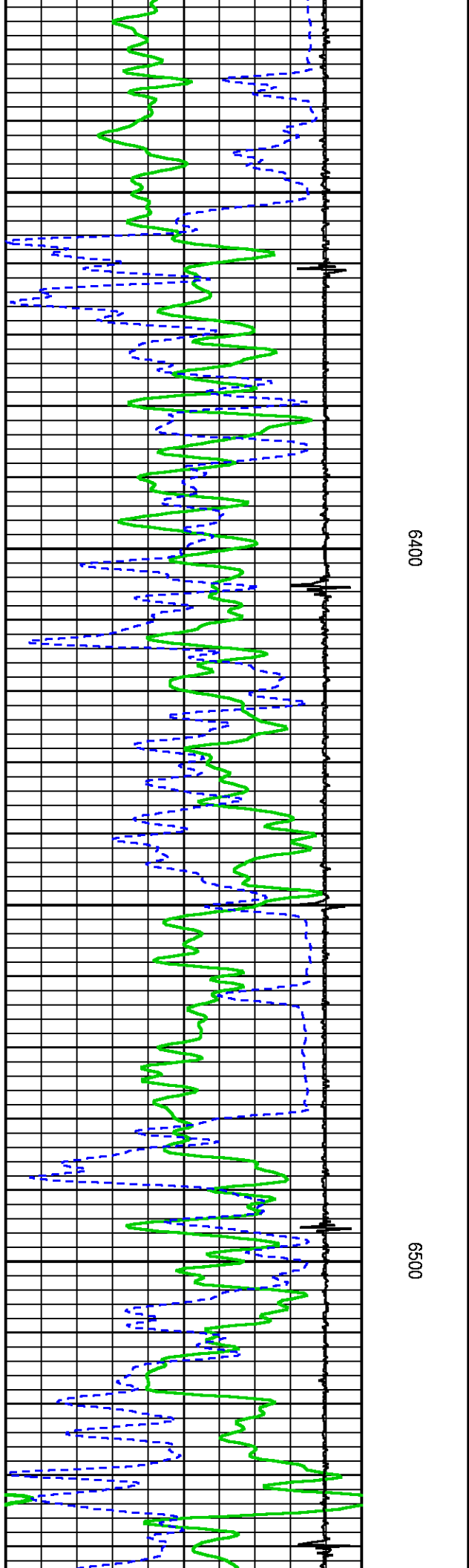
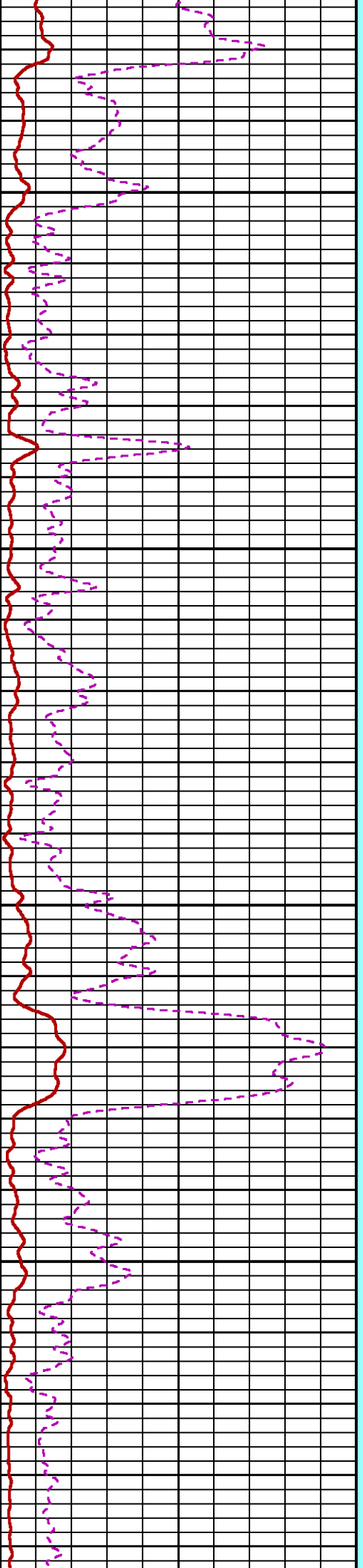
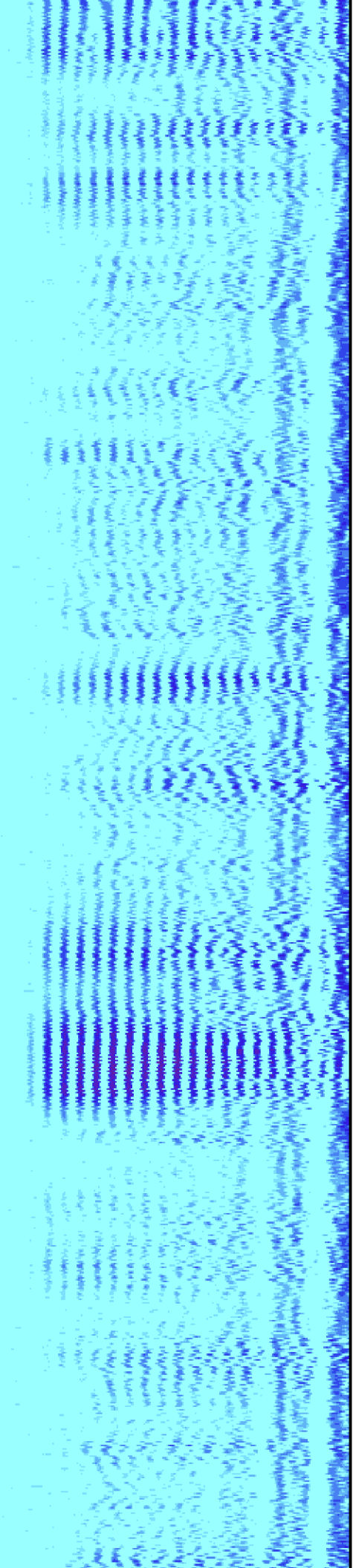


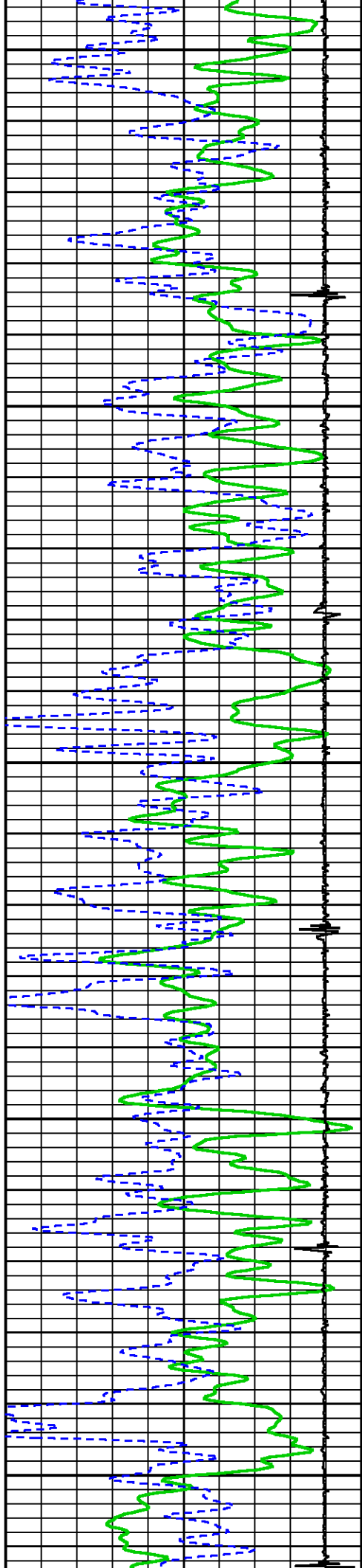


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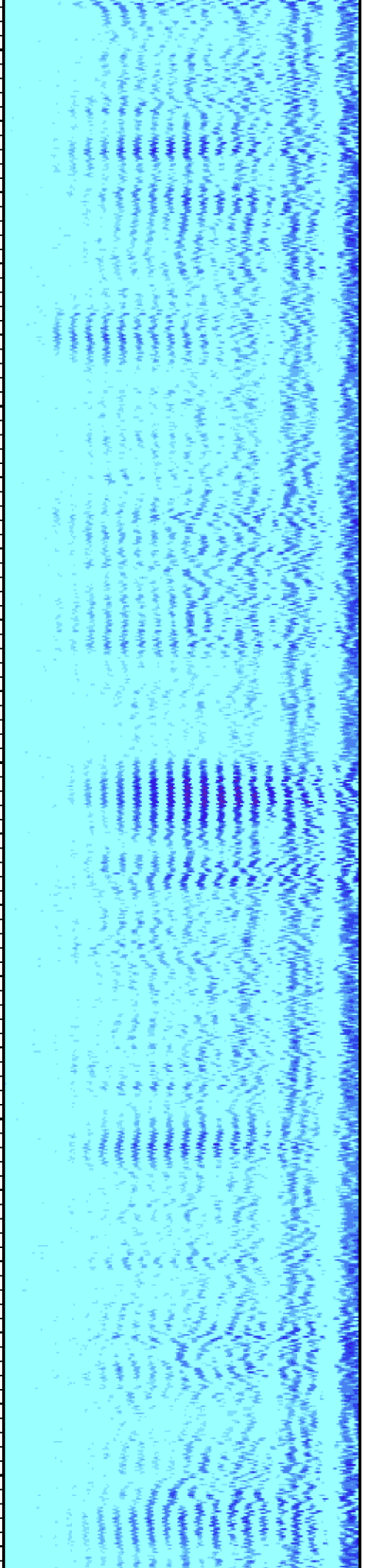
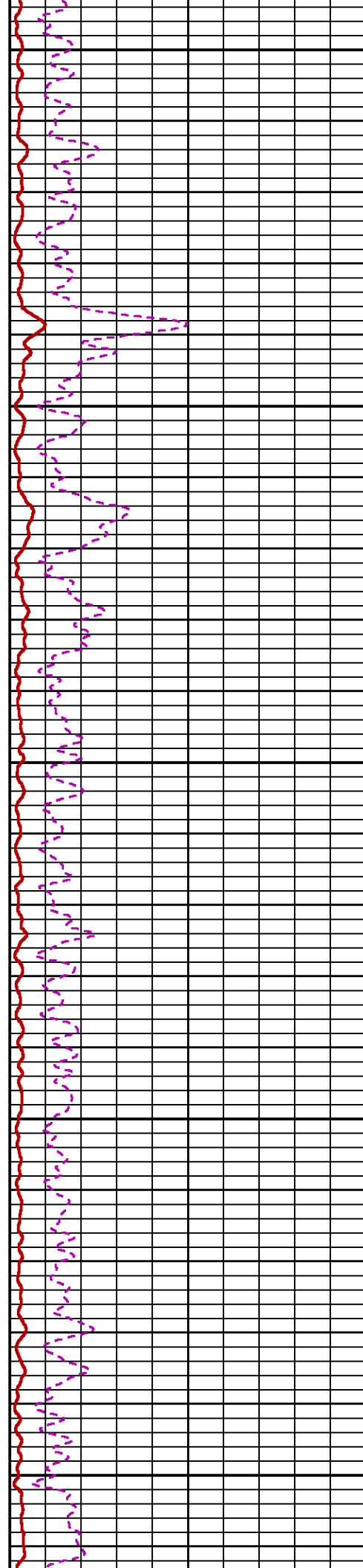


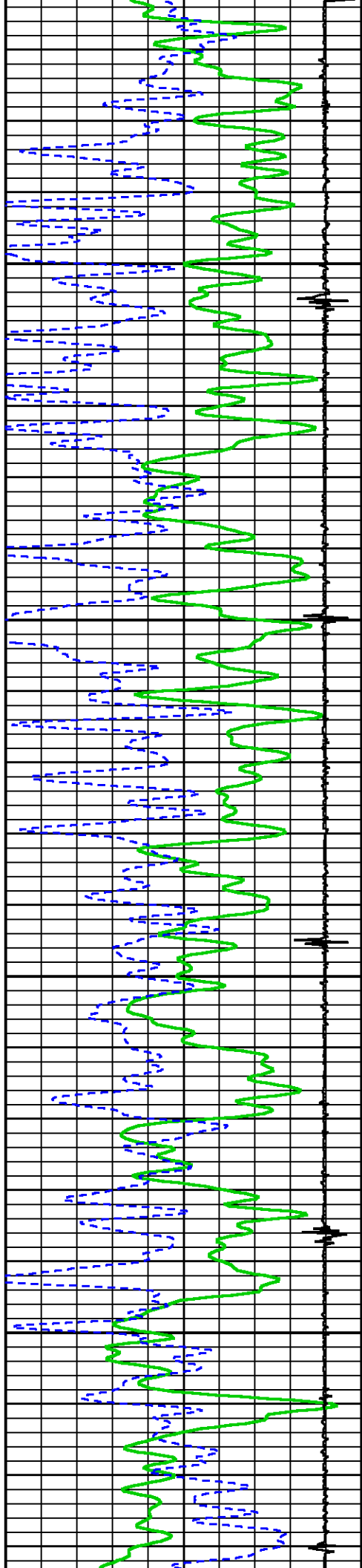




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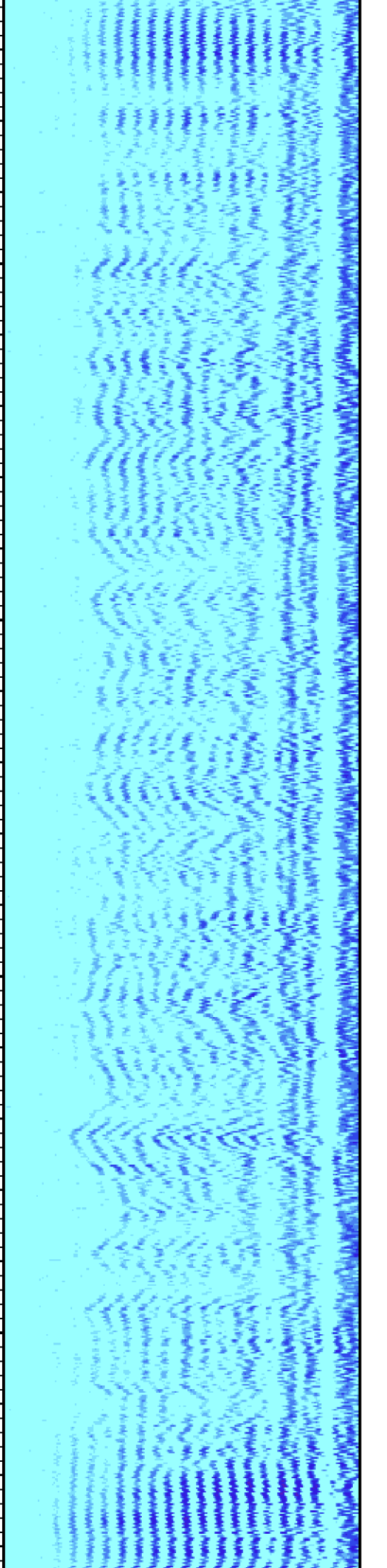
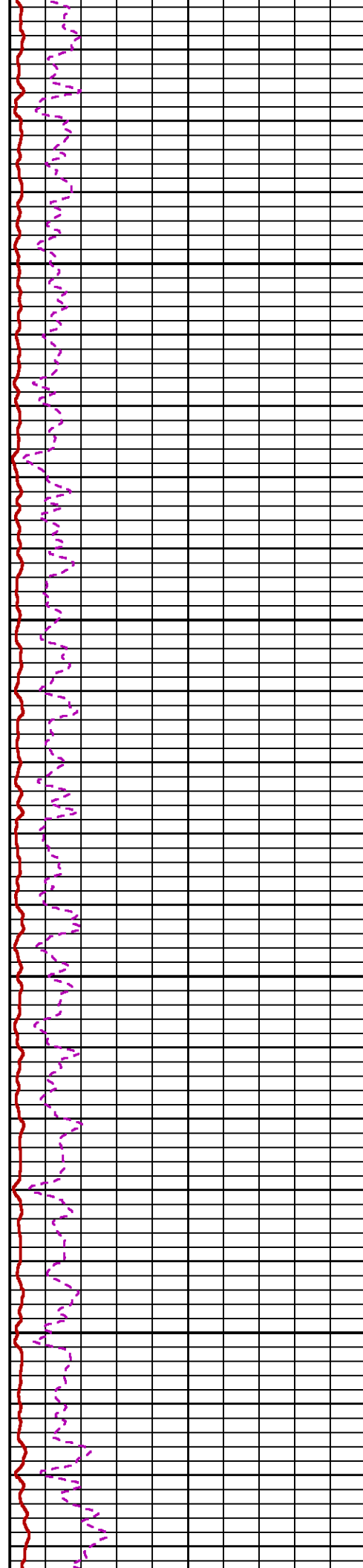
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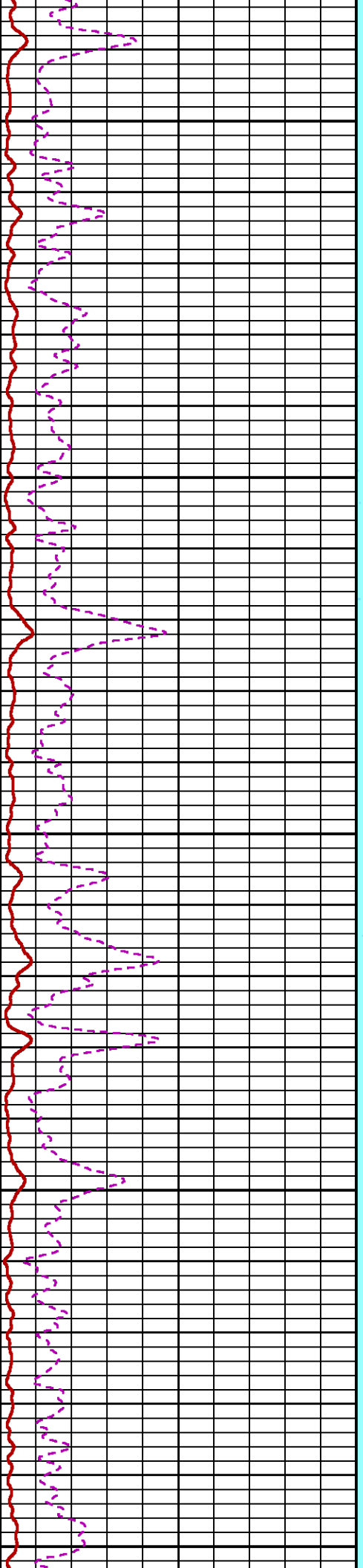
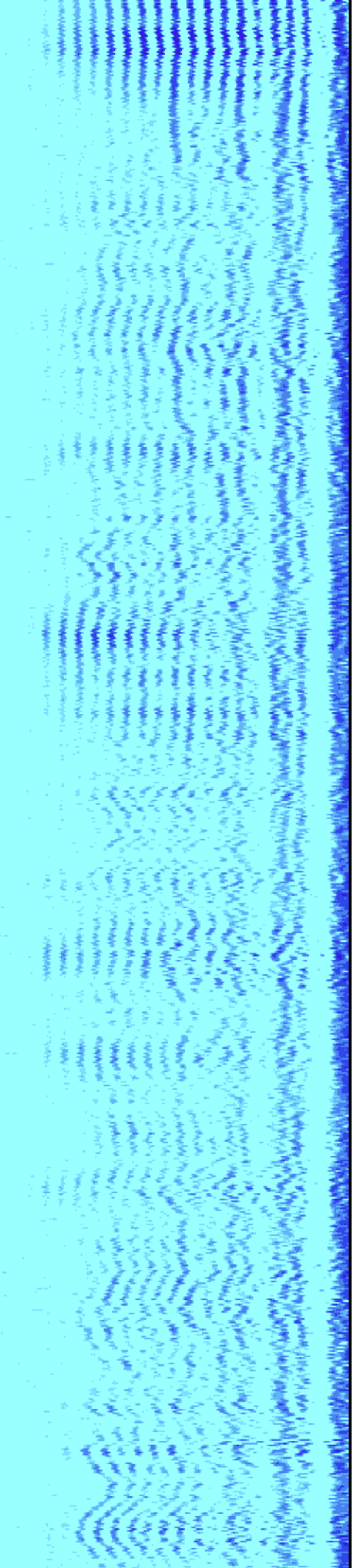




0069

0089

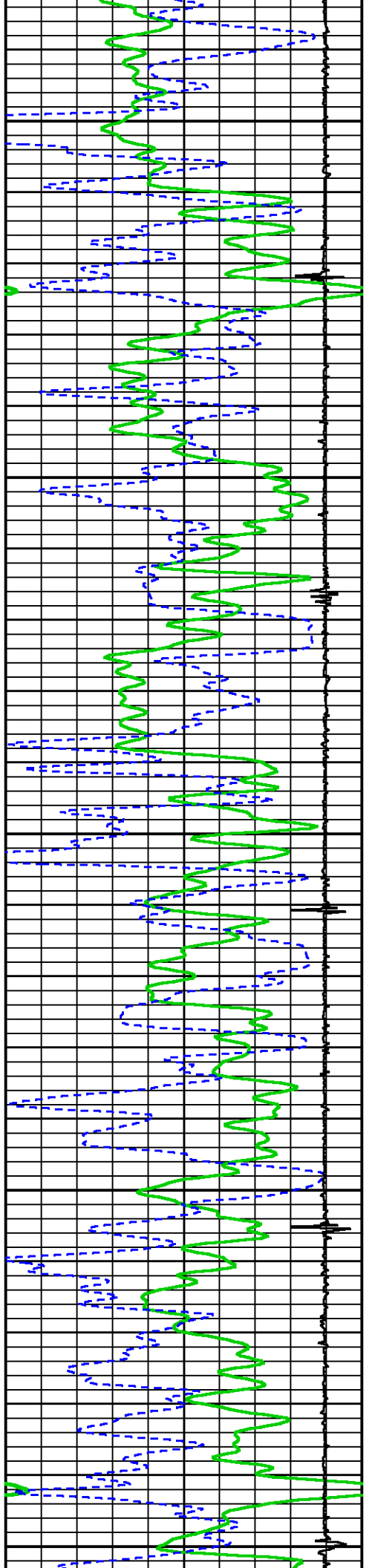


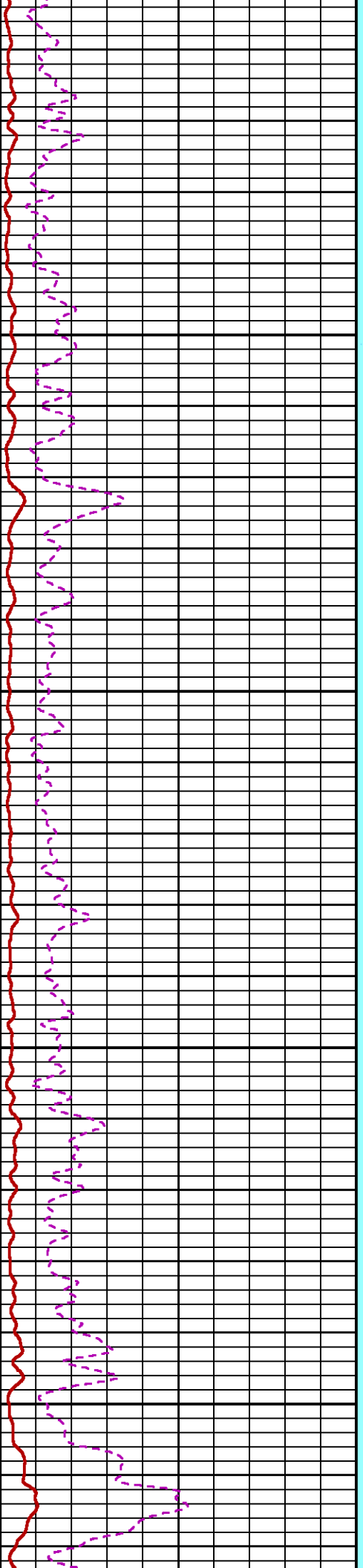
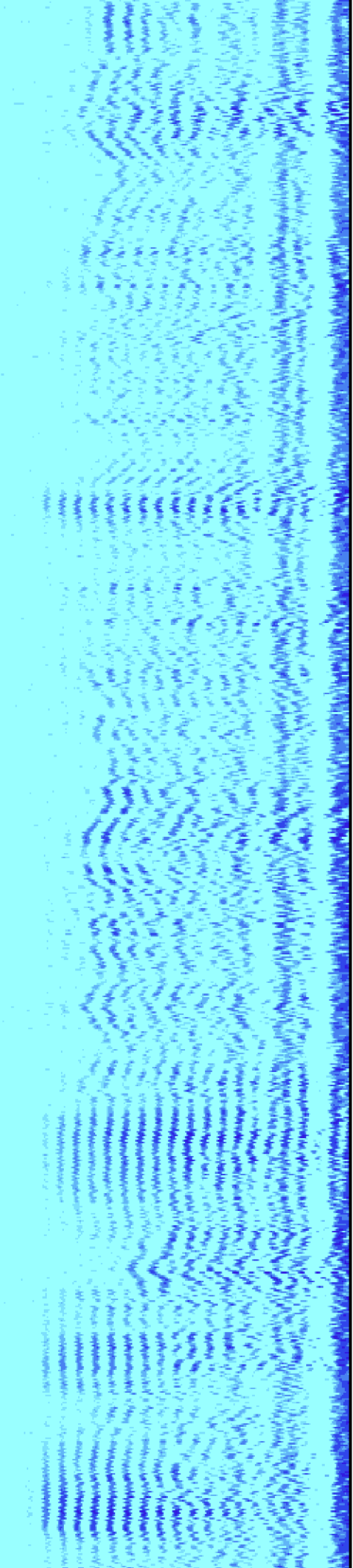


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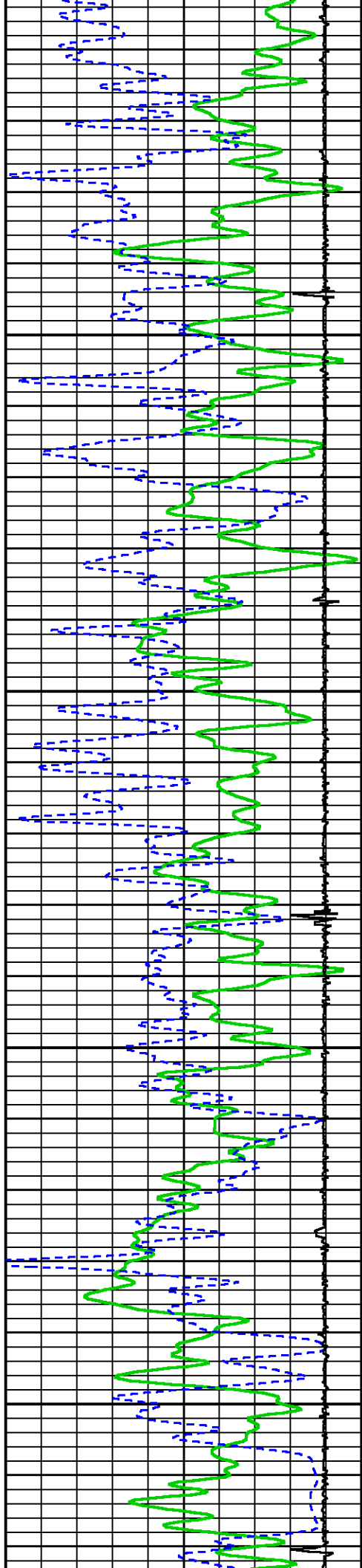
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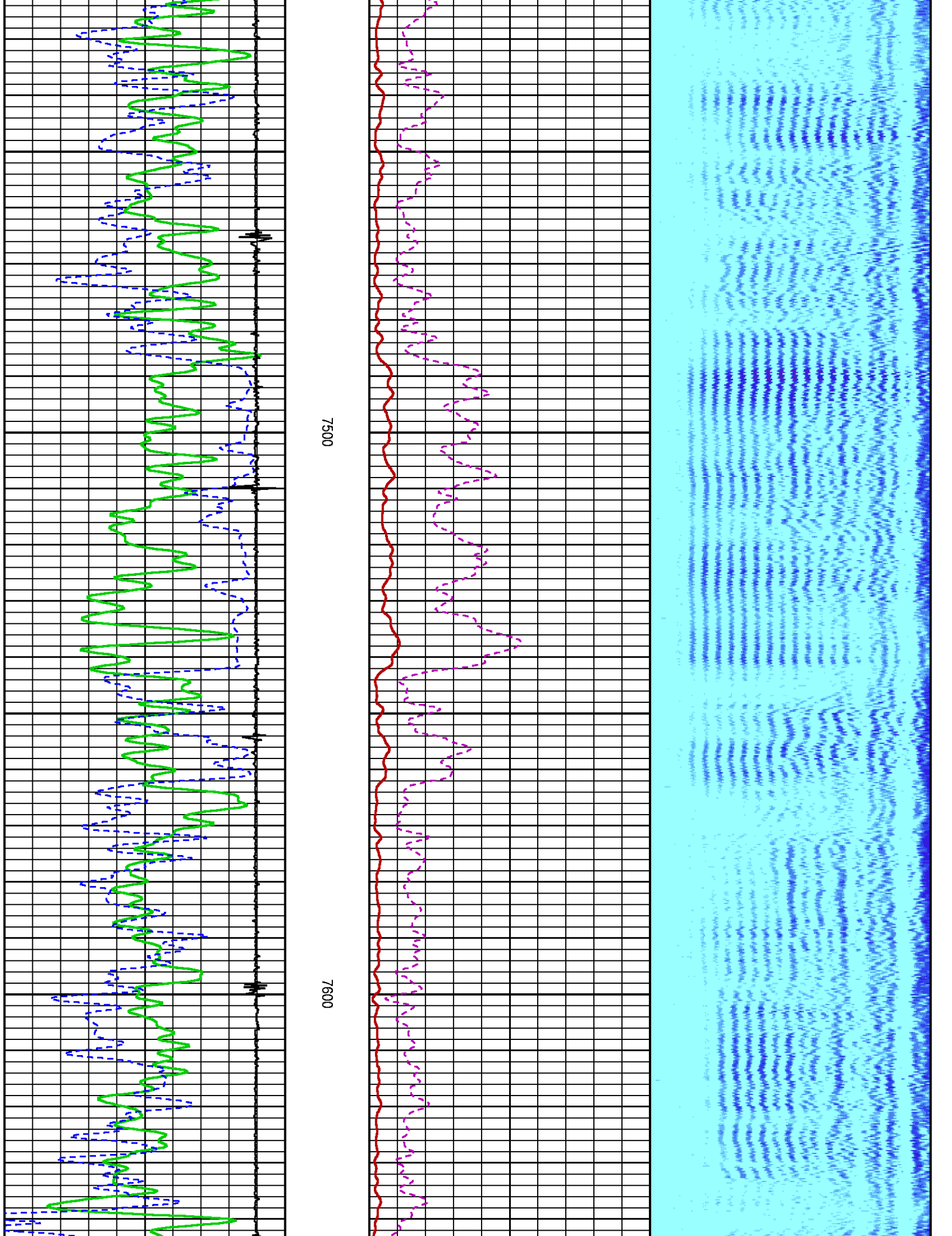


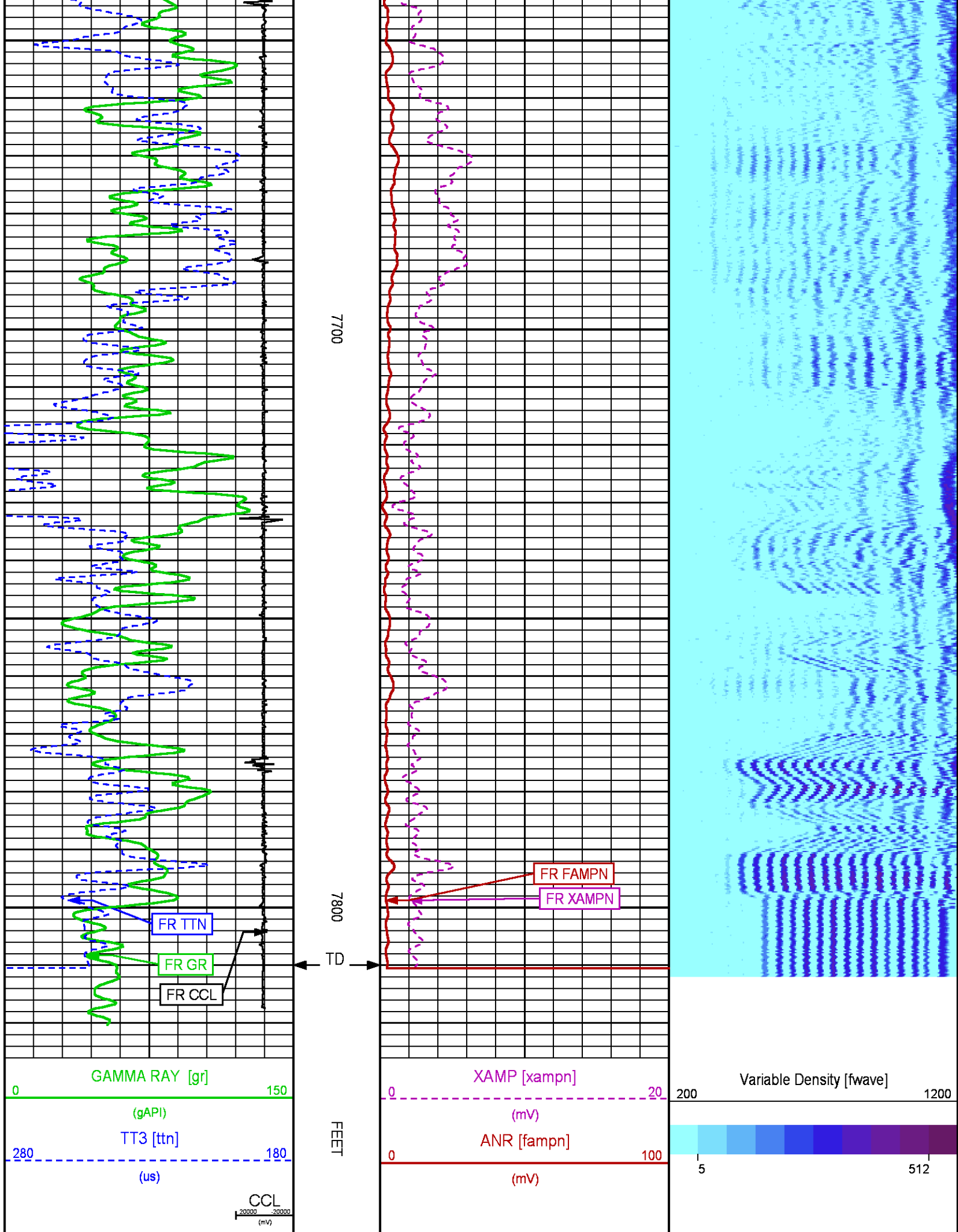


7300

7400







SECONDARY PRESENTATION 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: Thu Jul 28 11:33:06 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108535/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 5.250 ft BOTTOM DEPTH: 7810.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	186	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	186	us	"	"
	AMP WINDOW START (fgp3*)	186	us	"	"
	AMP WINDOW START (fgp4*)	186	us	"	"
	AMP WINDOW START (fgp5*)	186	us	"	"
	AMP WINDOW START (fgp6*)	186	us	"	"
	AMP WINDOW START (fgp7*)	186	us	"	"
	AMP WINDOW START (fgp8*)	186	us	"	"
	AMP WINDOW START (fgpn*)	186	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	176	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-68	us	"	"
	TOOL DELAY (str2*)	-68	us	"	"
	TOOL DELAY (str3*)	-68	us	"	"
	TOOL DELAY (str4*)	-68	us	"	"
	TOOL DELAY (str5*)	-68	us	"	"
	TOOL DELAY (str6*)	-68	us	"	"
	TOOL DELAY (str7*)	-68	us	"	"
	TOOL DELAY (str8*)	-68	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-68	us	"	"
	NOISE WINDOW START	135	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

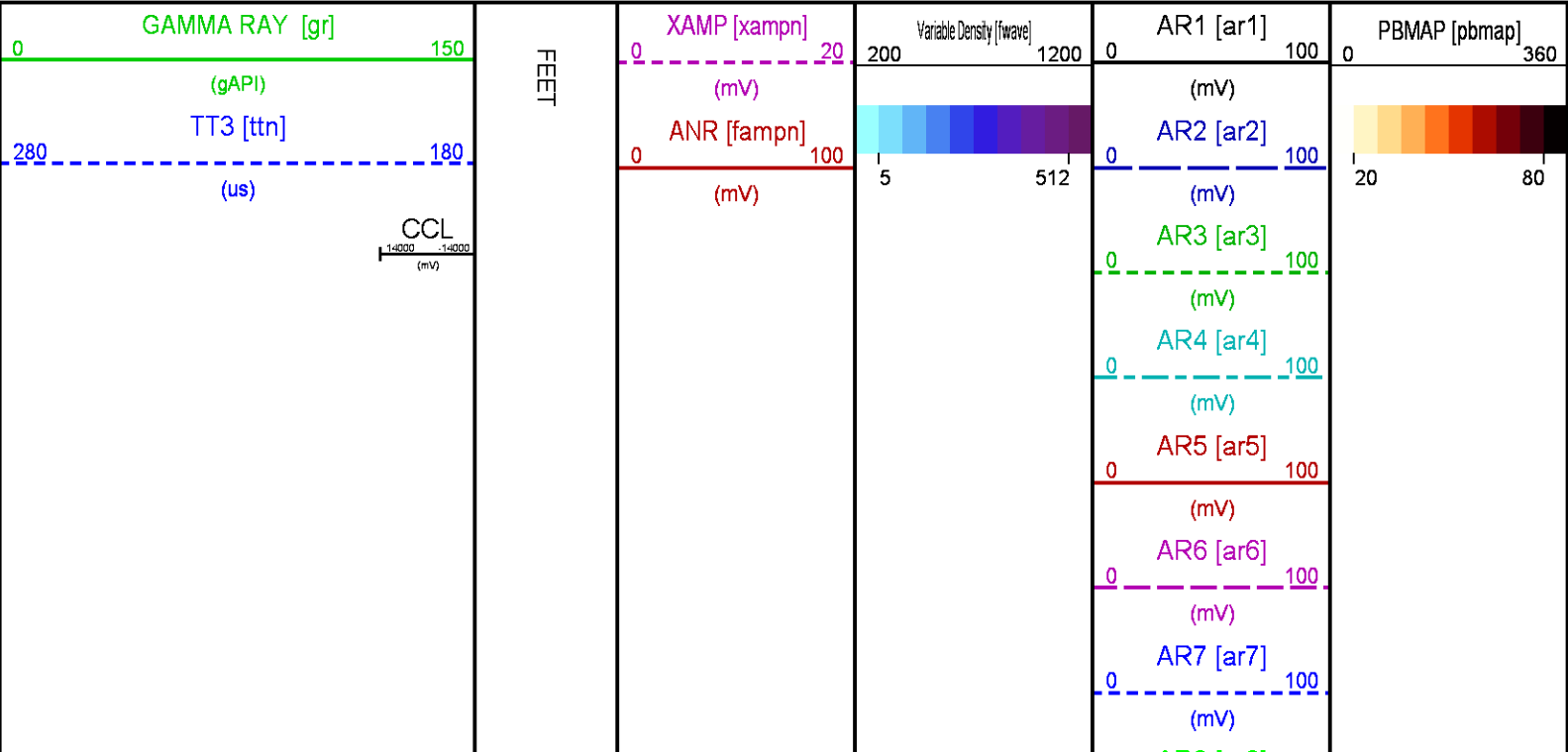
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	81	mV	TOP	BOTTOM
	FREE AMP REC 2	81	mV	"	"
	FREE AMP REC 3	81	mV	"	"
	FREE AMP REC 4	81	mV	"	"
	FREE AMP REC 5	81	mV	"	"
	FREE AMP REC 6	81	mV	"	"
	FREE AMP REC 7	81	mV	"	"
	FREE AMP REC 8	81	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"

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

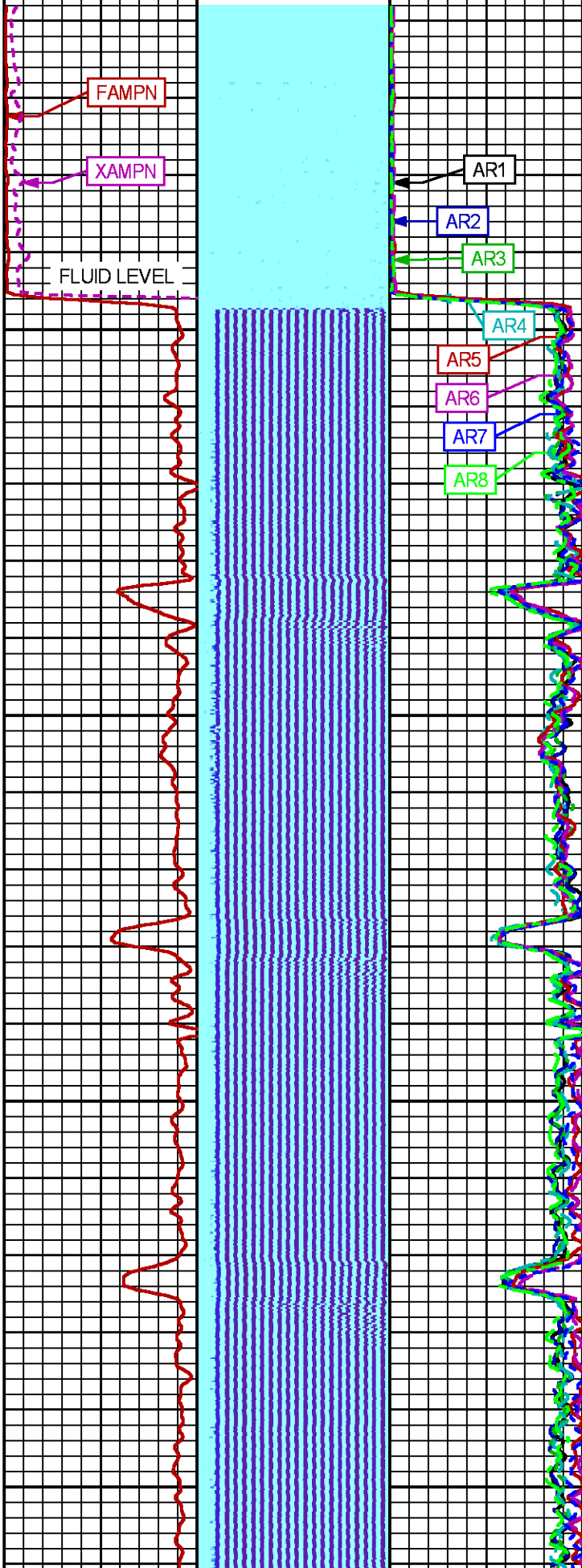
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 28 08:41:27 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 28 08:41:27 2016	FAR WAVE FORM
F1:GR	Jul 28 08:41:27 2016	GAMMA RAY
F1:PBMAP	Jul 28 08:41:27 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jul 28 08:41:27 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 28 08:41:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75
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	: cas6685:/dat1a/CH108535/432CBL_SECONDARY.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 7825 Feet
Data File 1	: F1 : cas6685:/dat1a/CH108535/432CBL_MAIN.xtf
Created On	: Jul 28 08:41:27 2016
Company	: TERRA ENERGY PARTNERS LLC
Well	: FEDERAL GM 432-9
Field	: GRAND VALLEY
File Interval	: 7 - 7823.25 Feet
OCT	: n012g



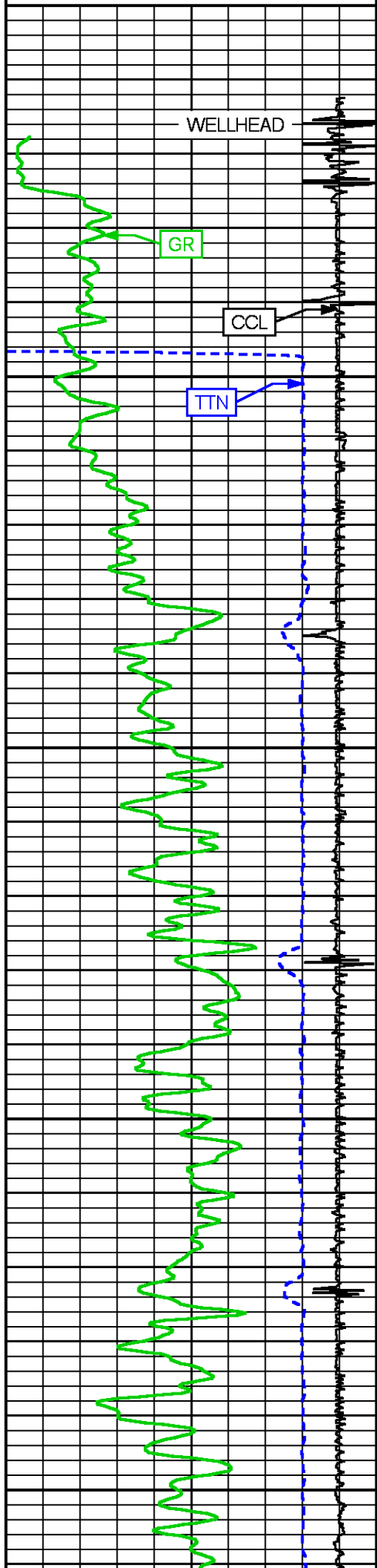
AR8 [ar8]
0 100
(mV)

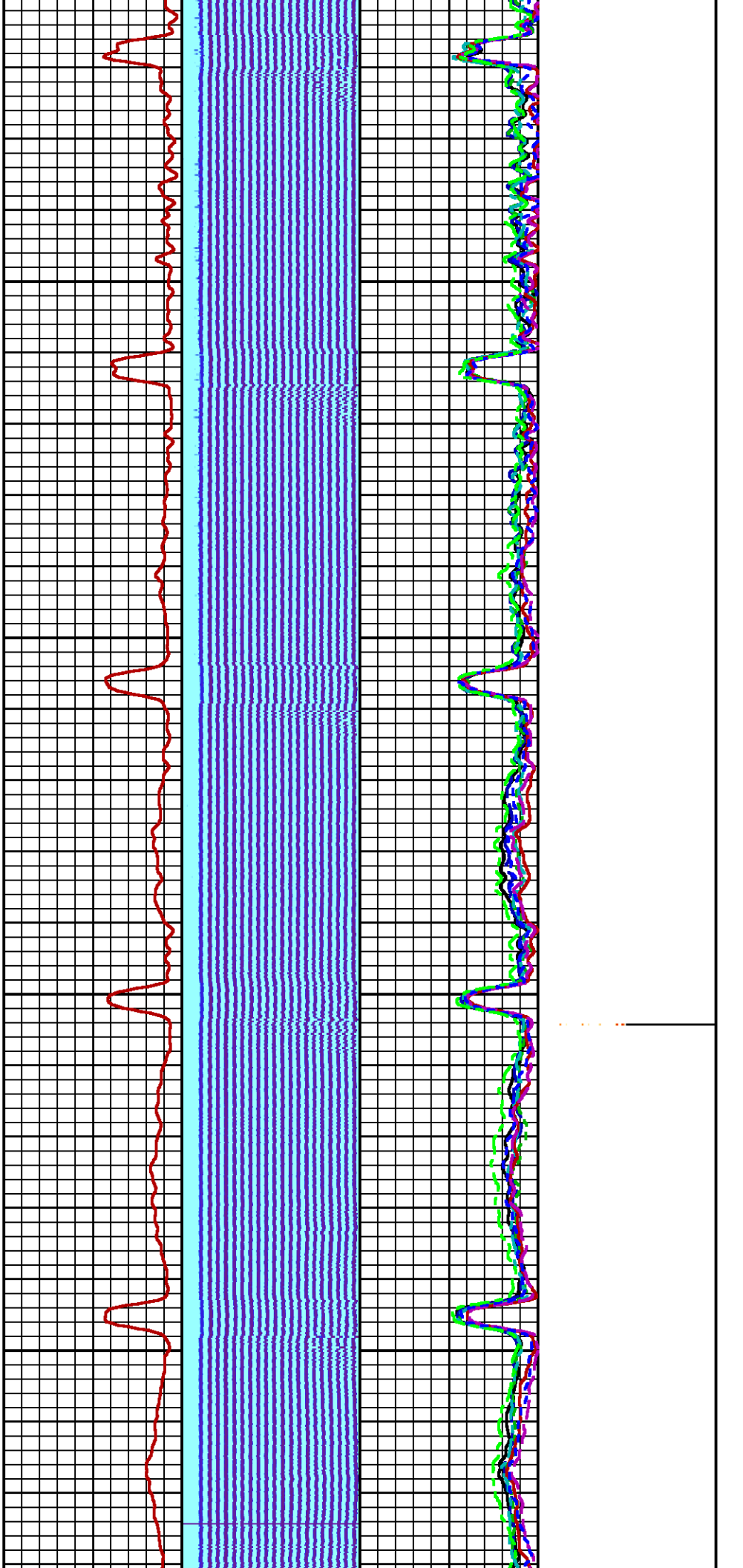


0

100

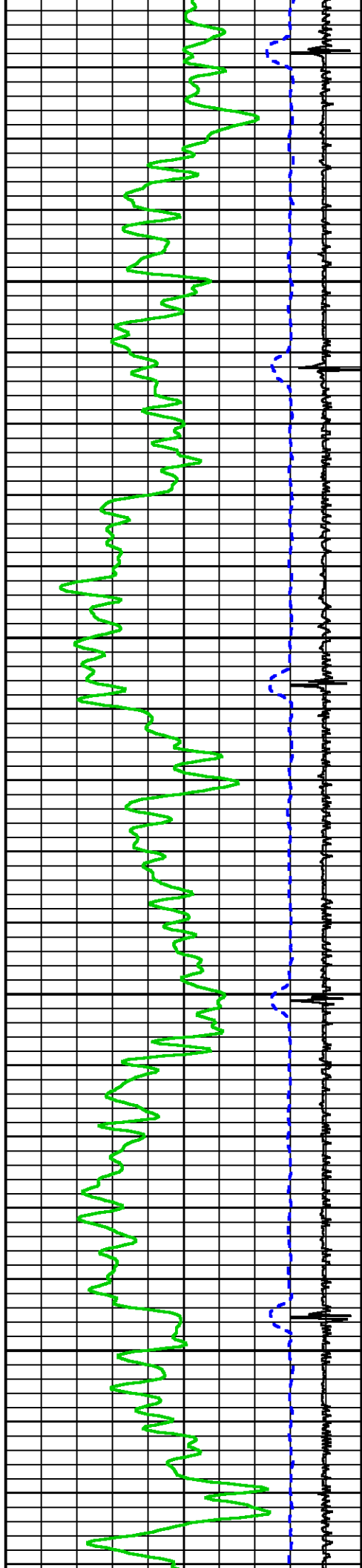
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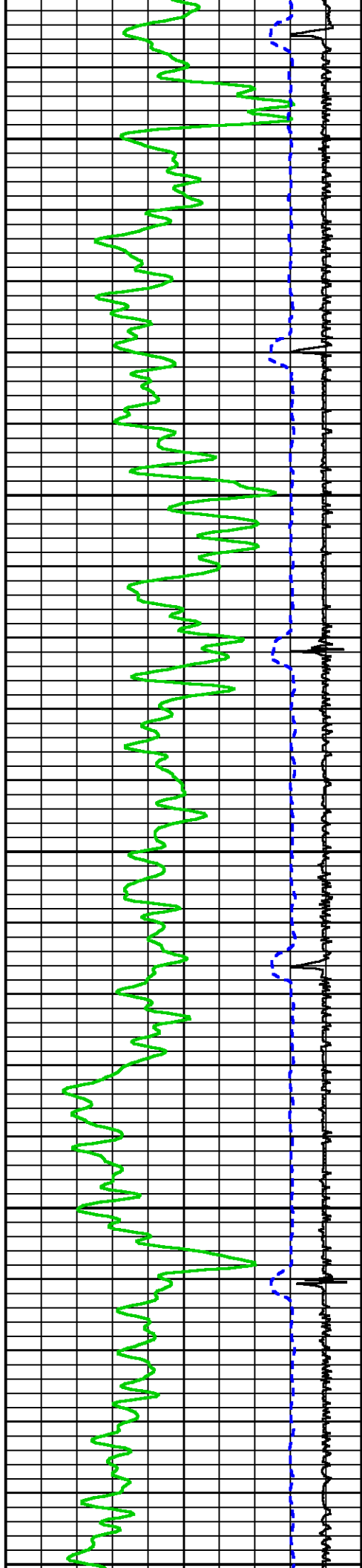




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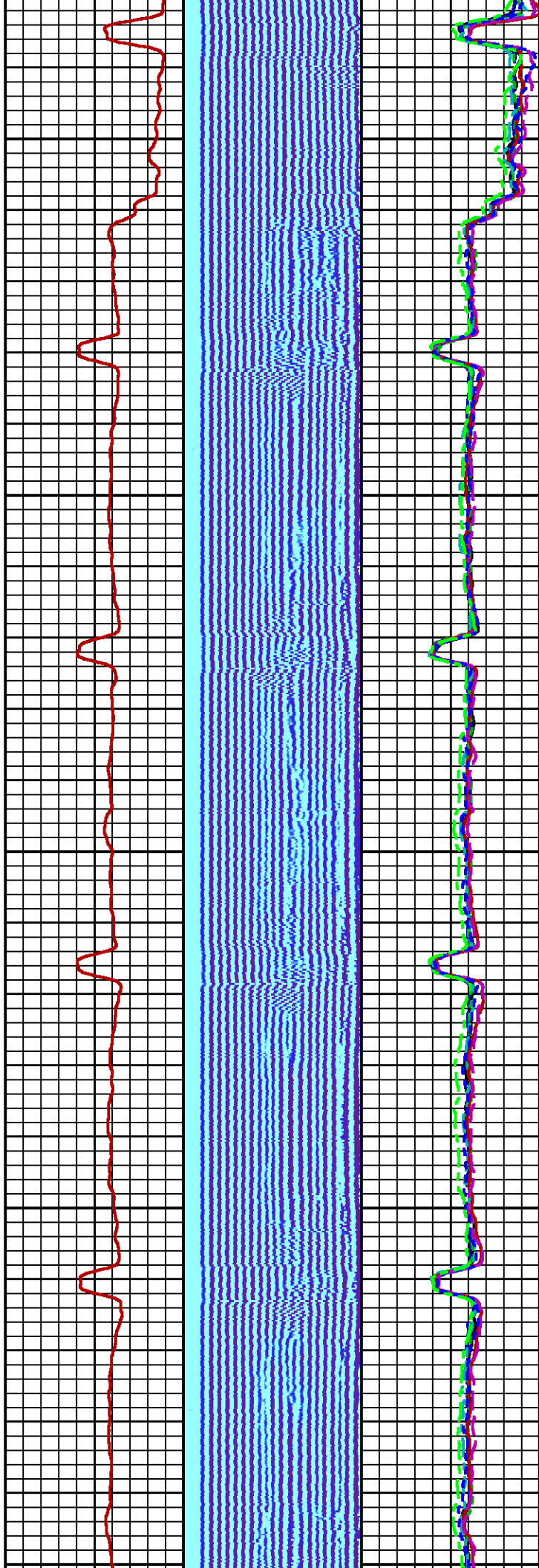
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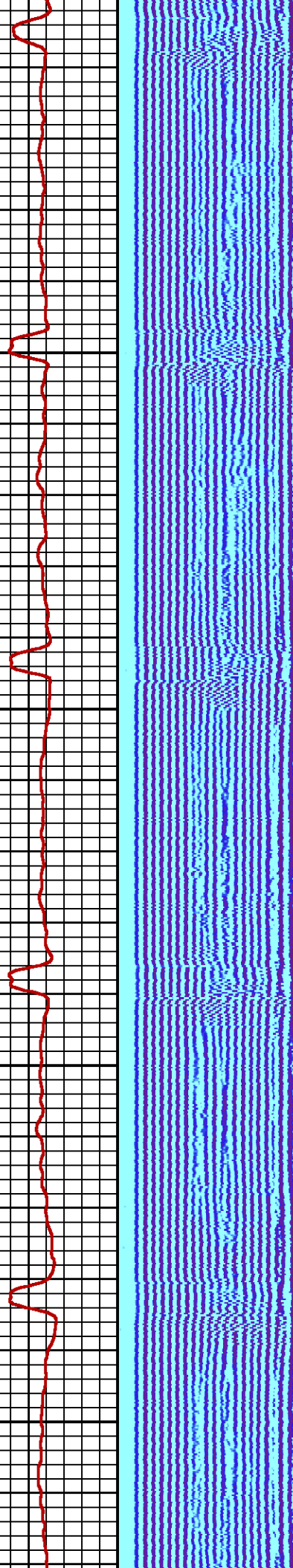
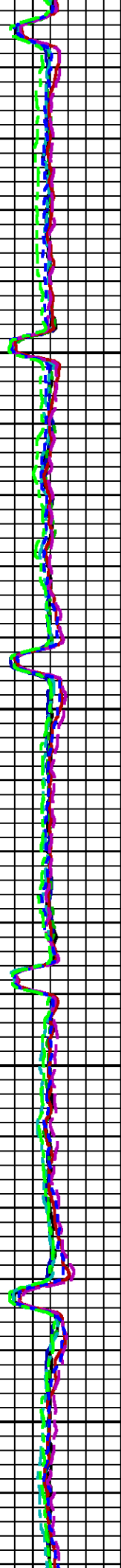




500

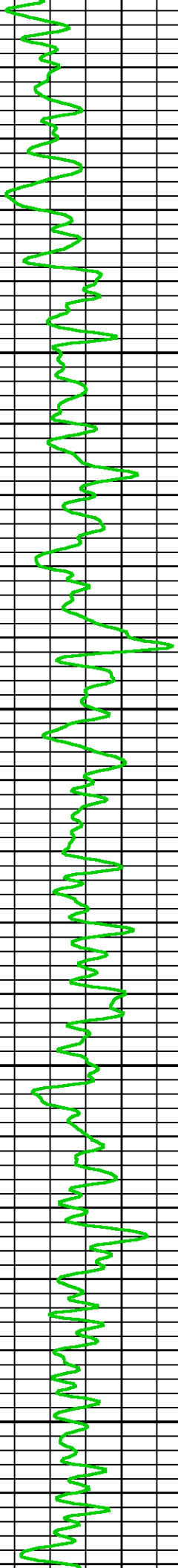
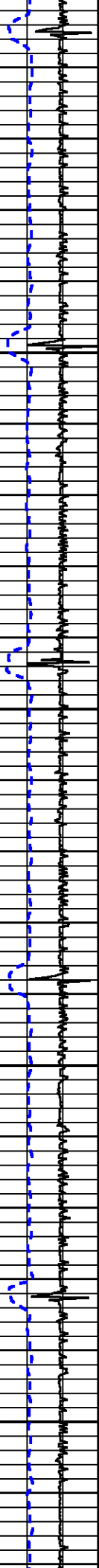
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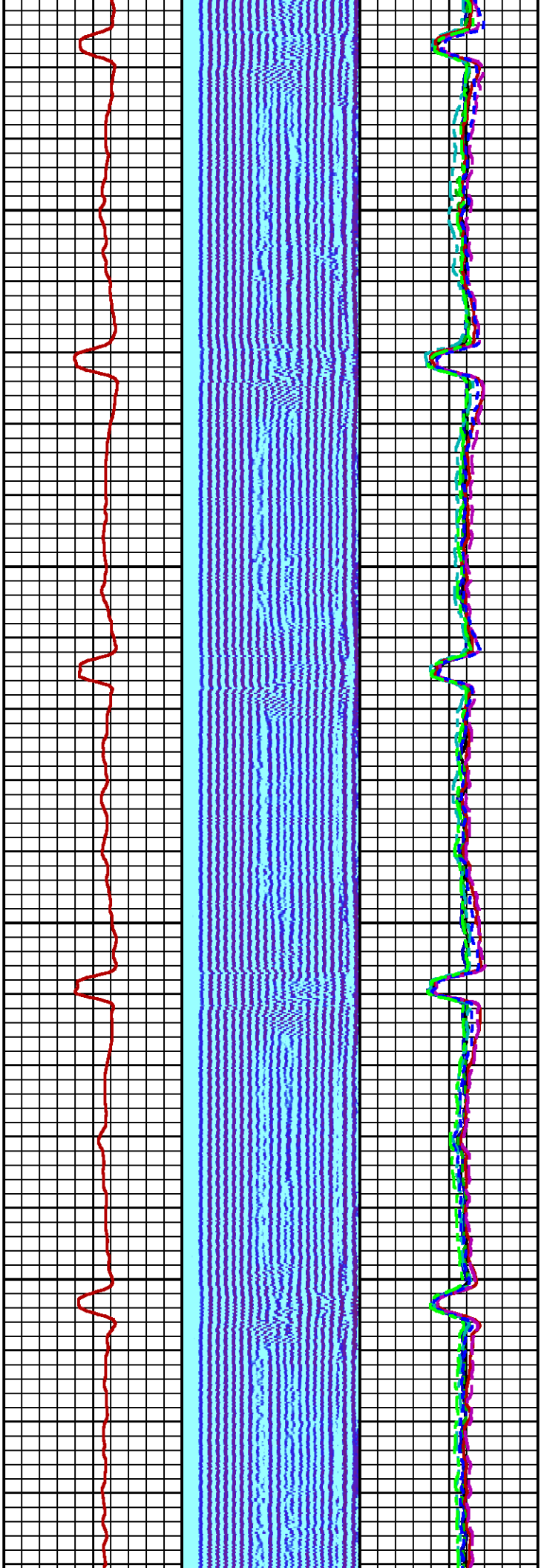




700

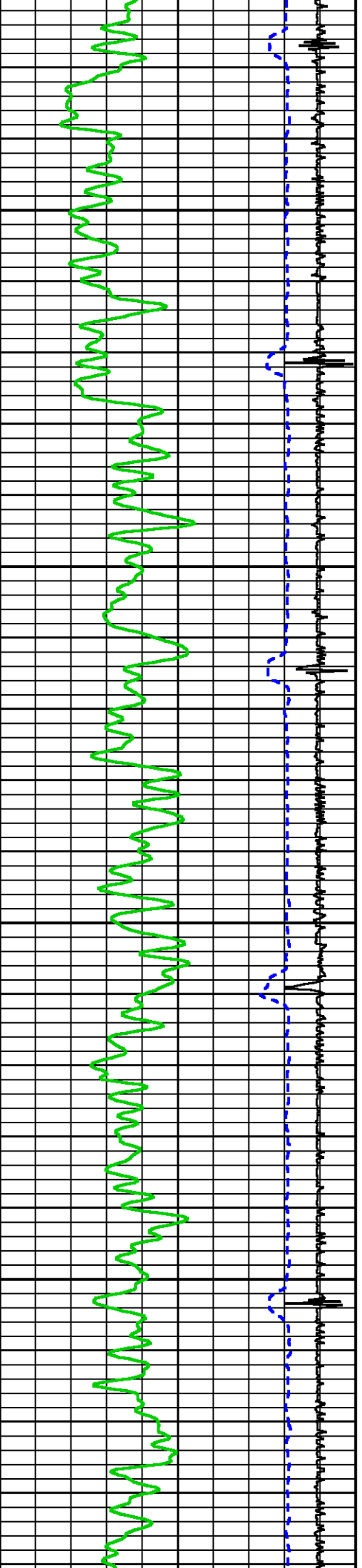
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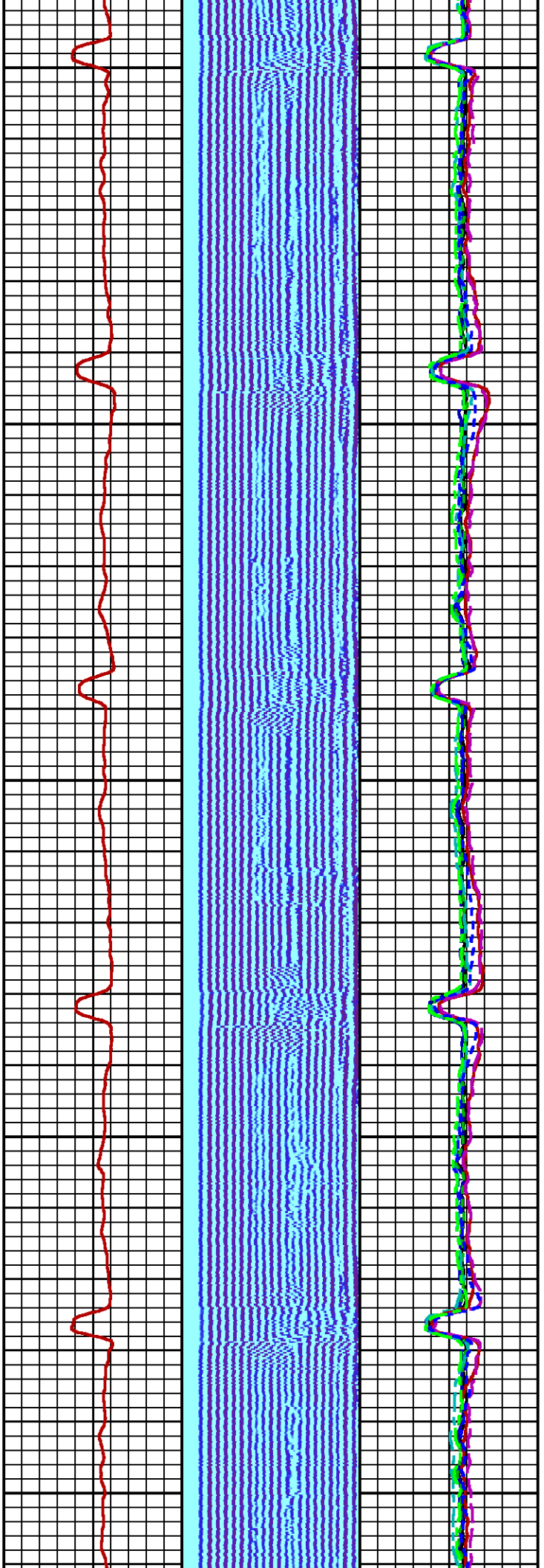




900

1000

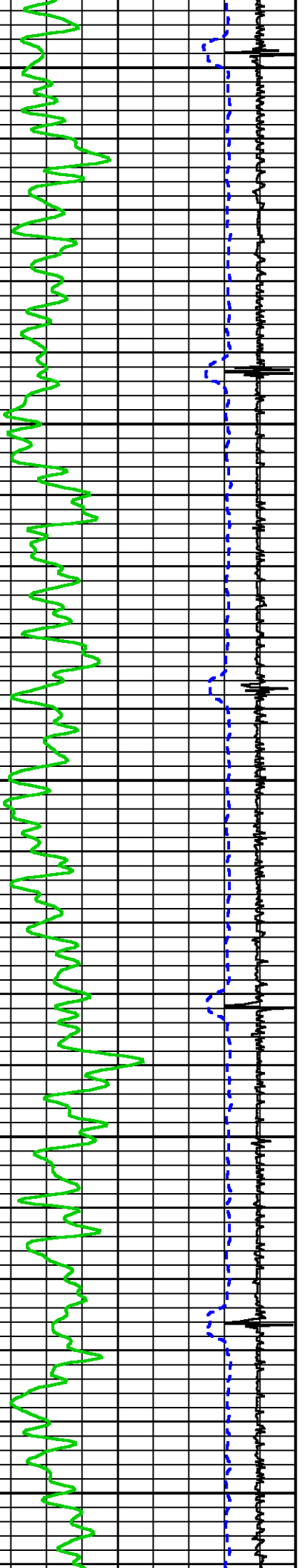


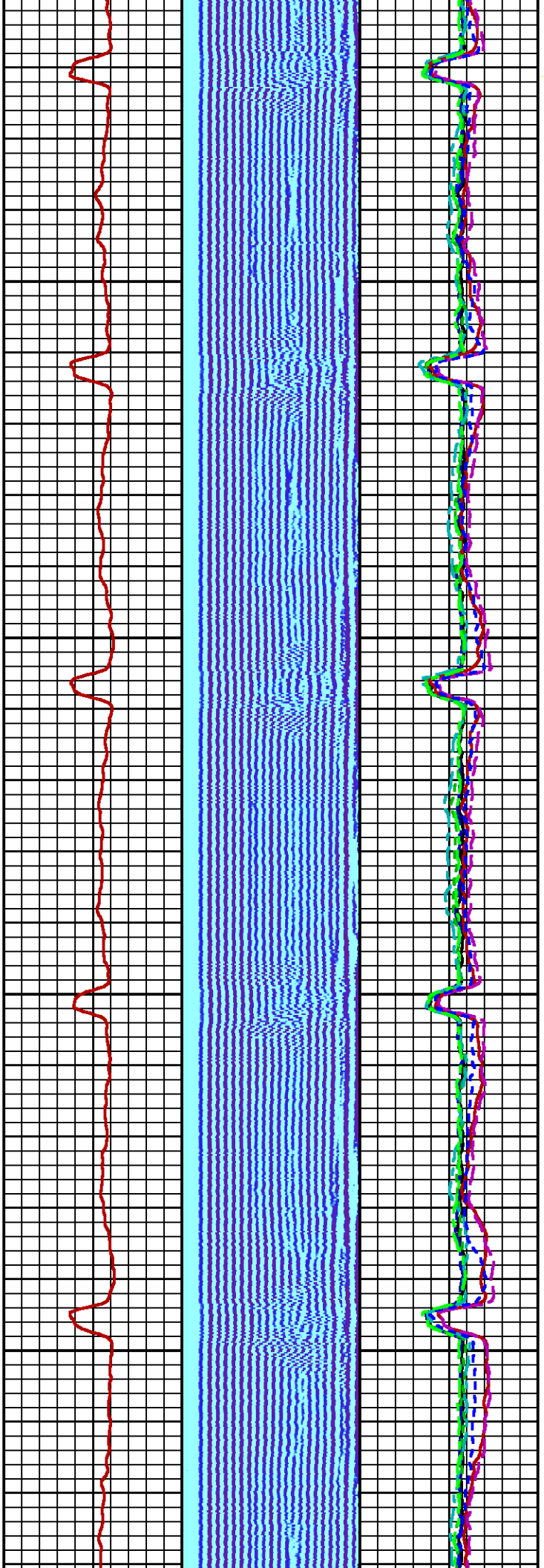


1100

1200

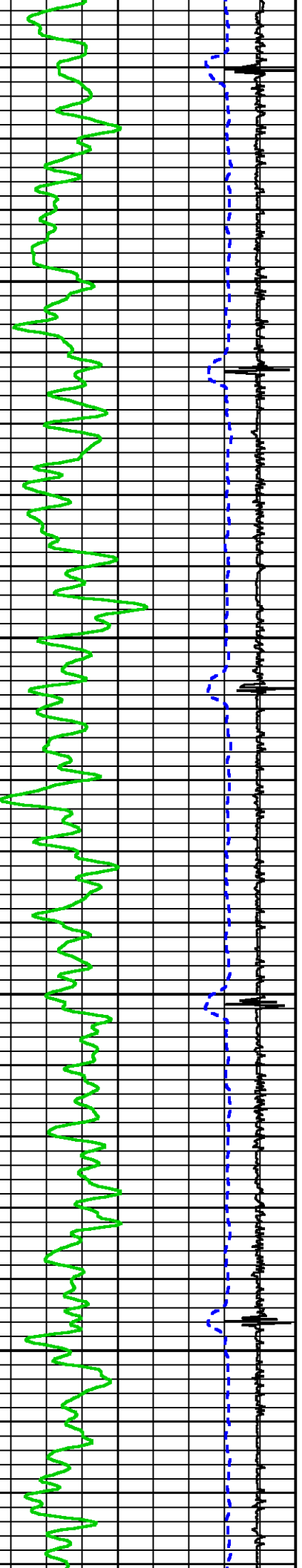
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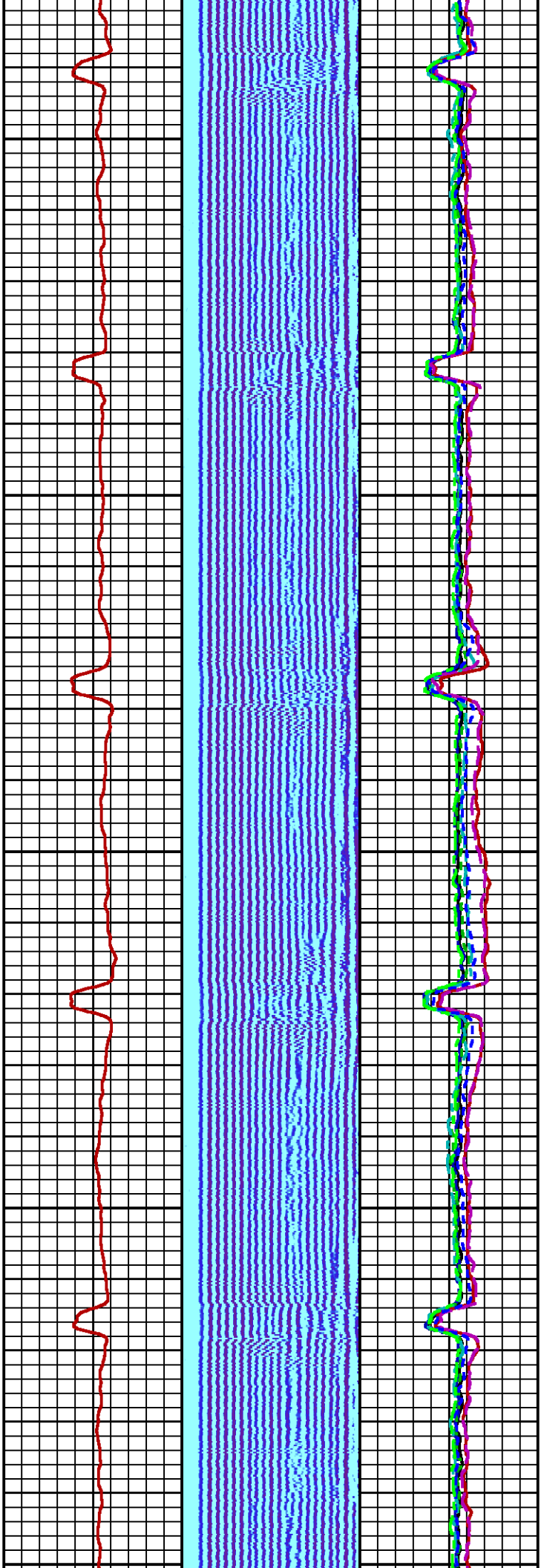




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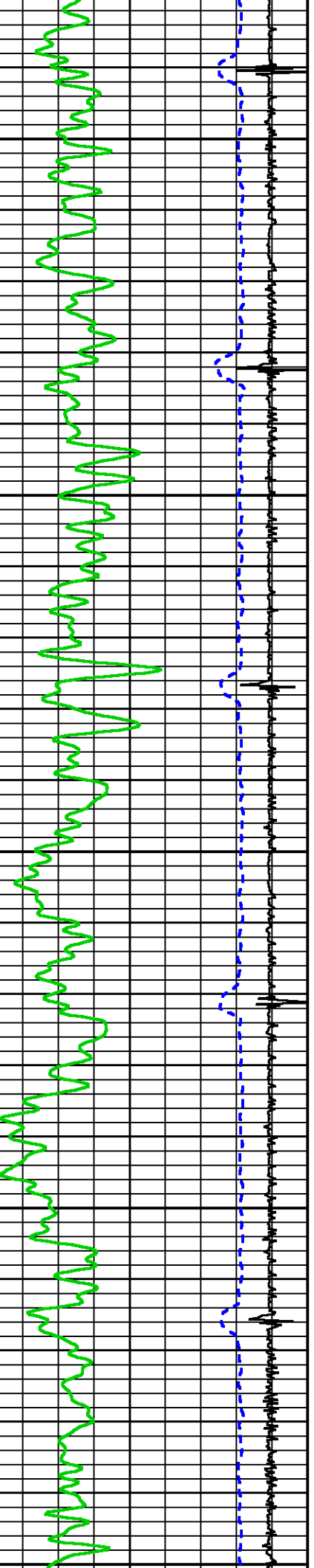
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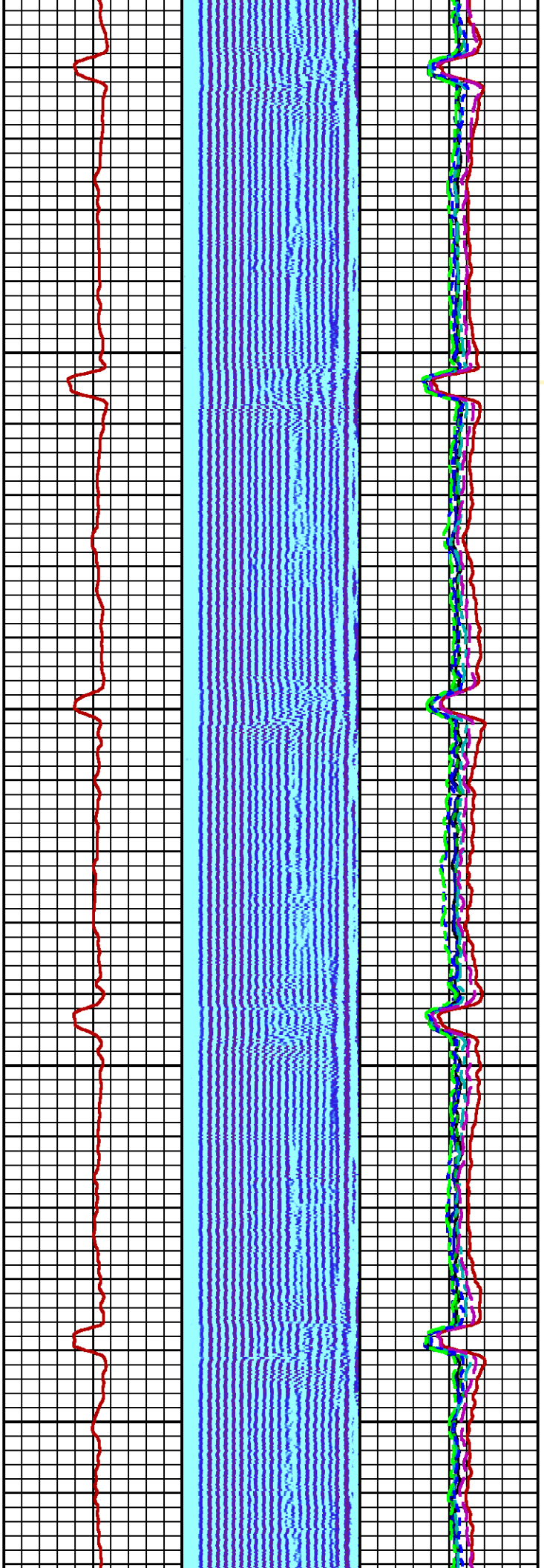




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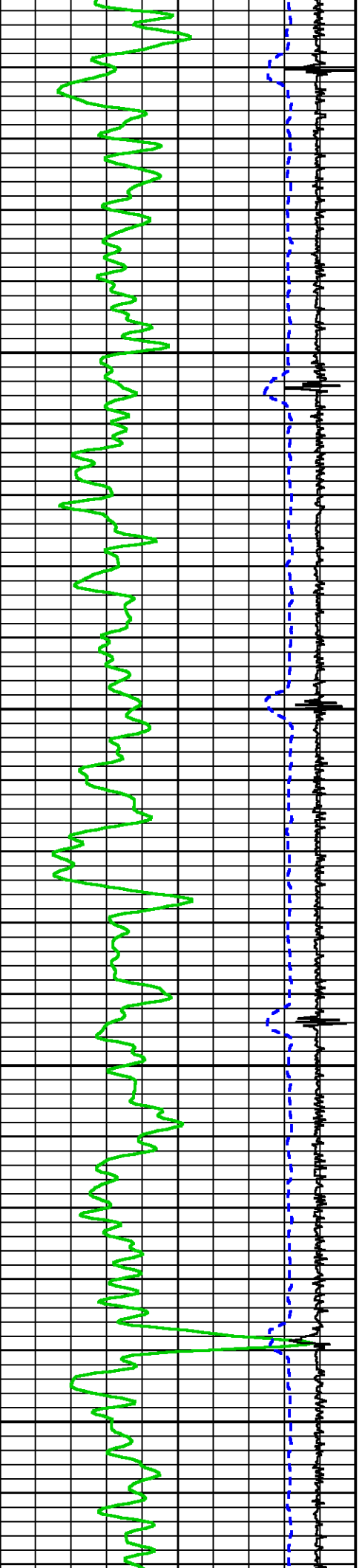
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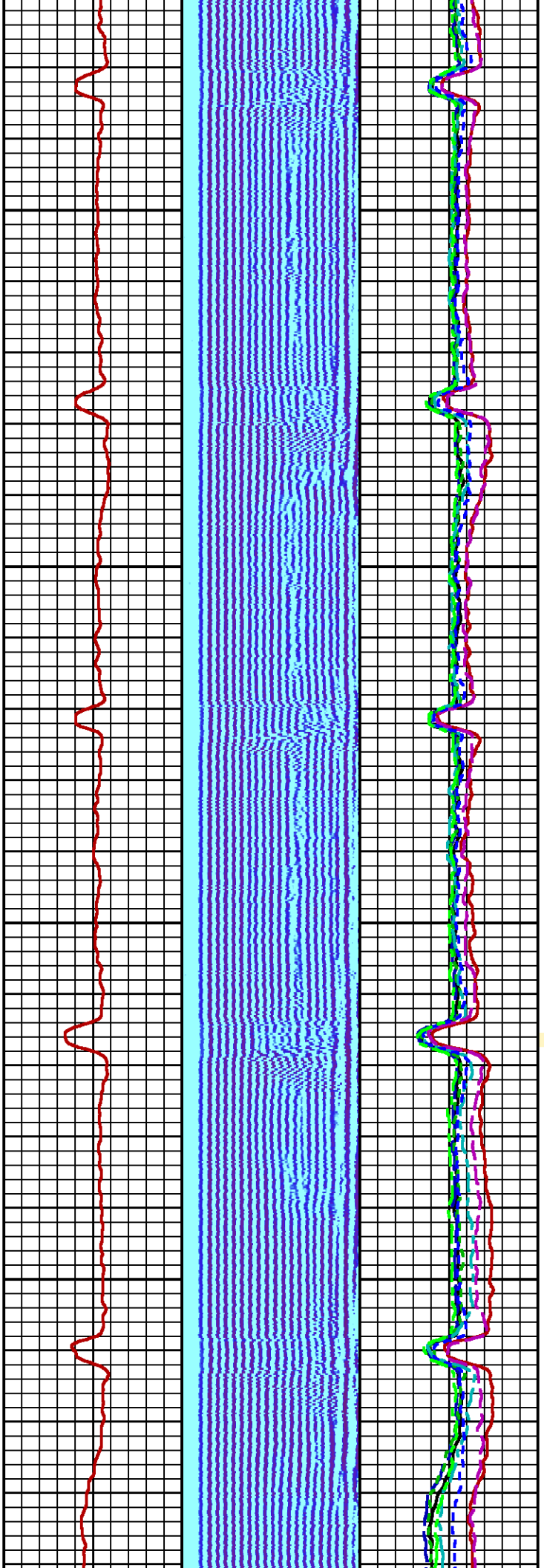




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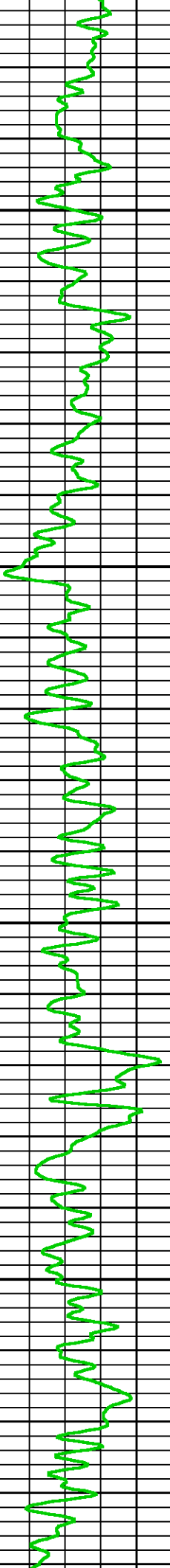
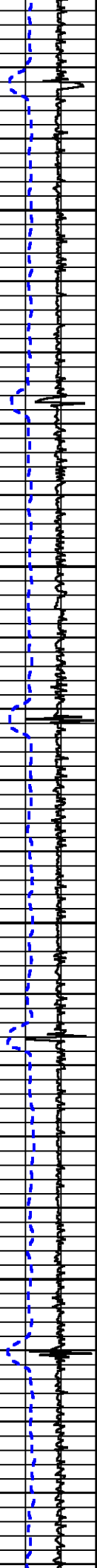
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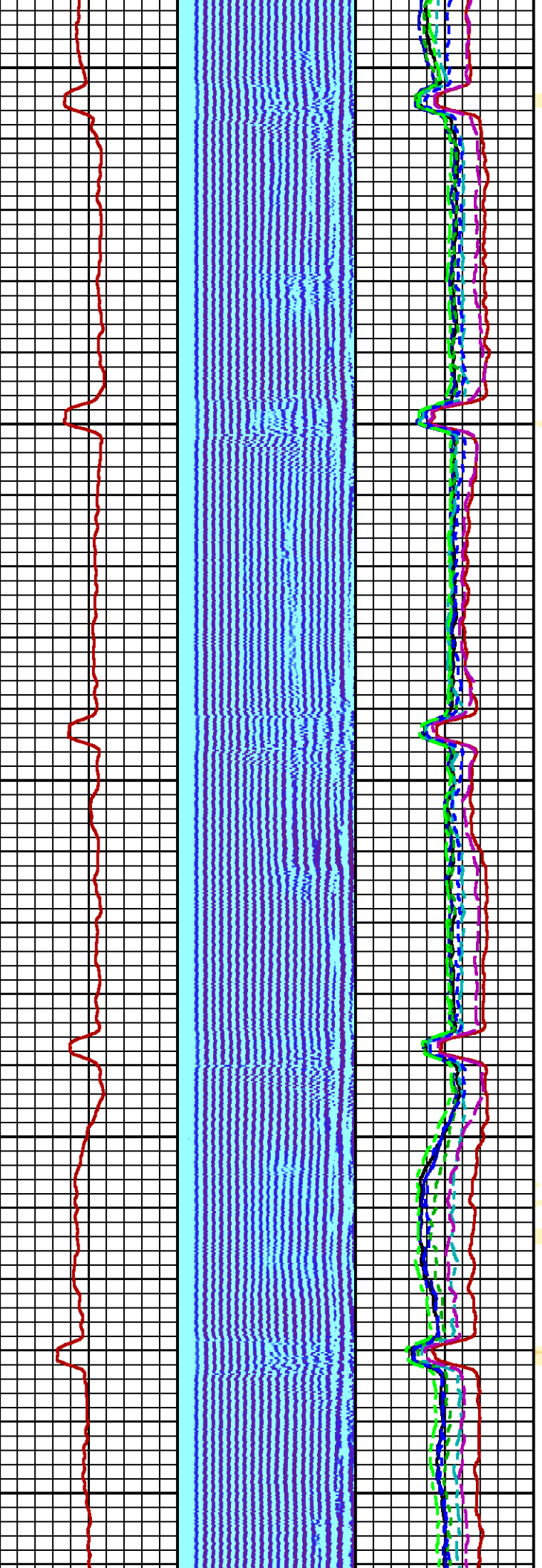




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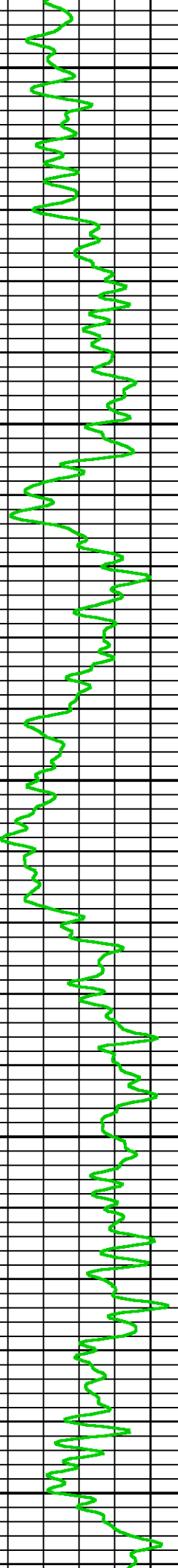
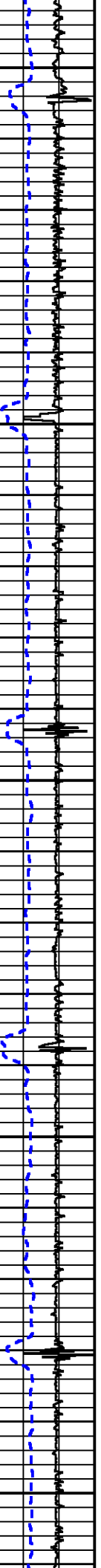


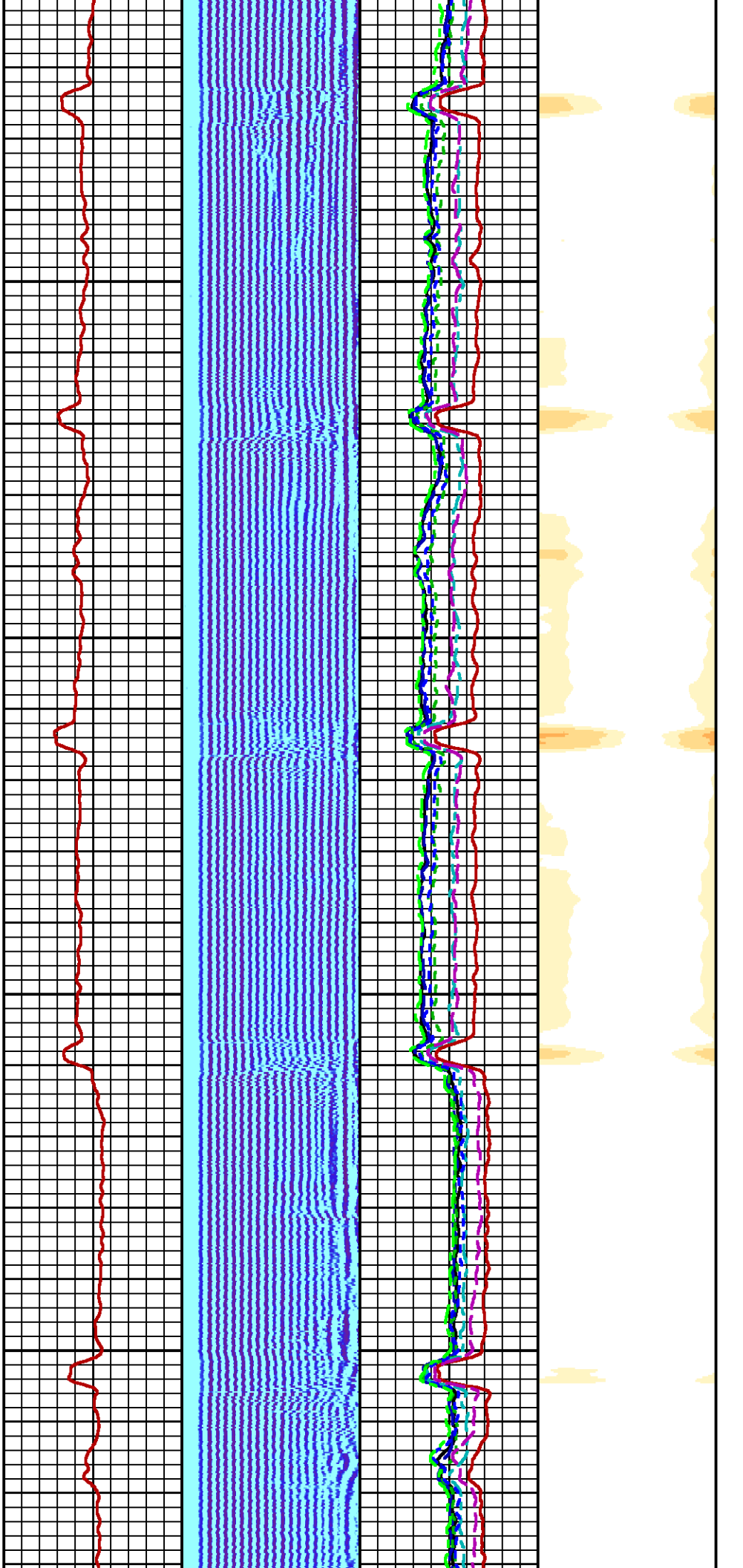


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2300

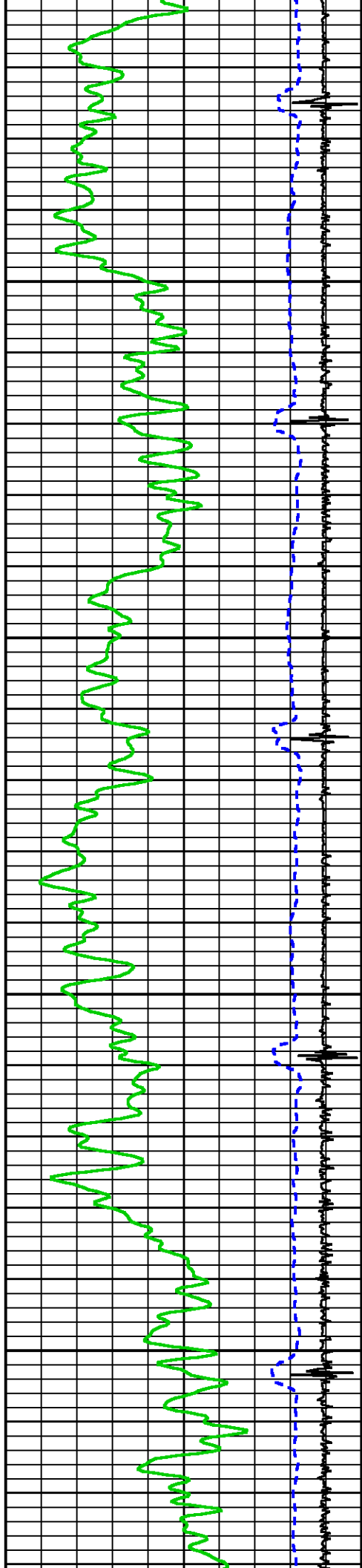
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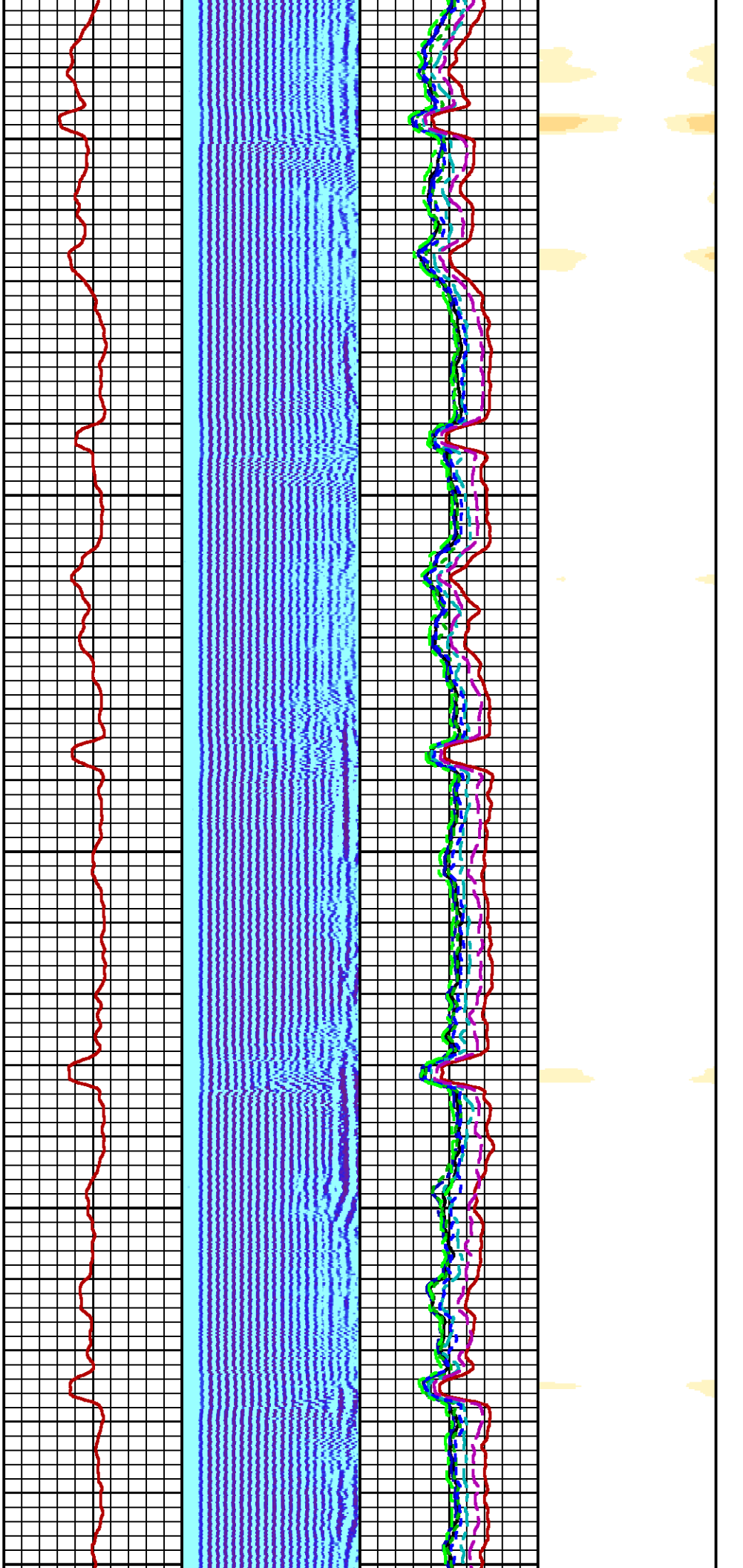




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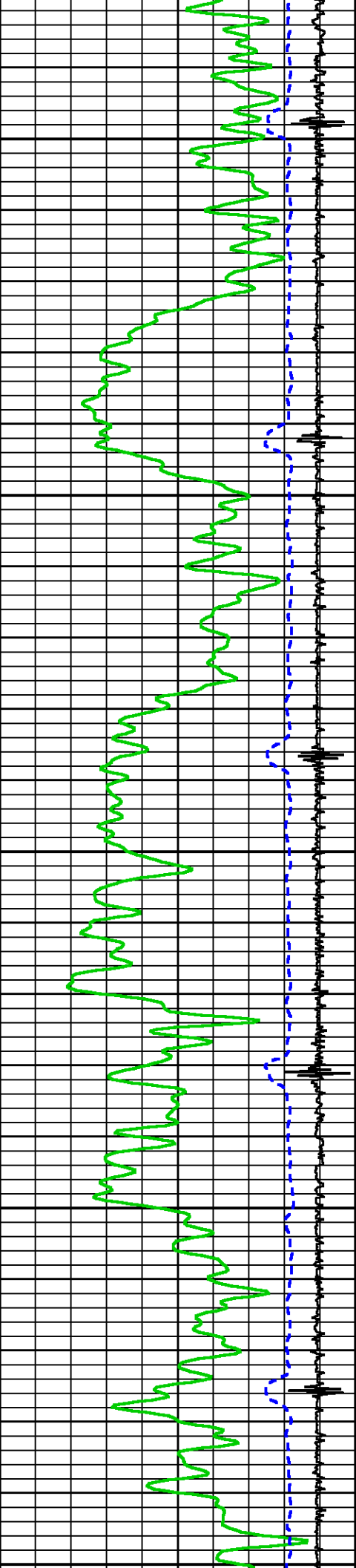
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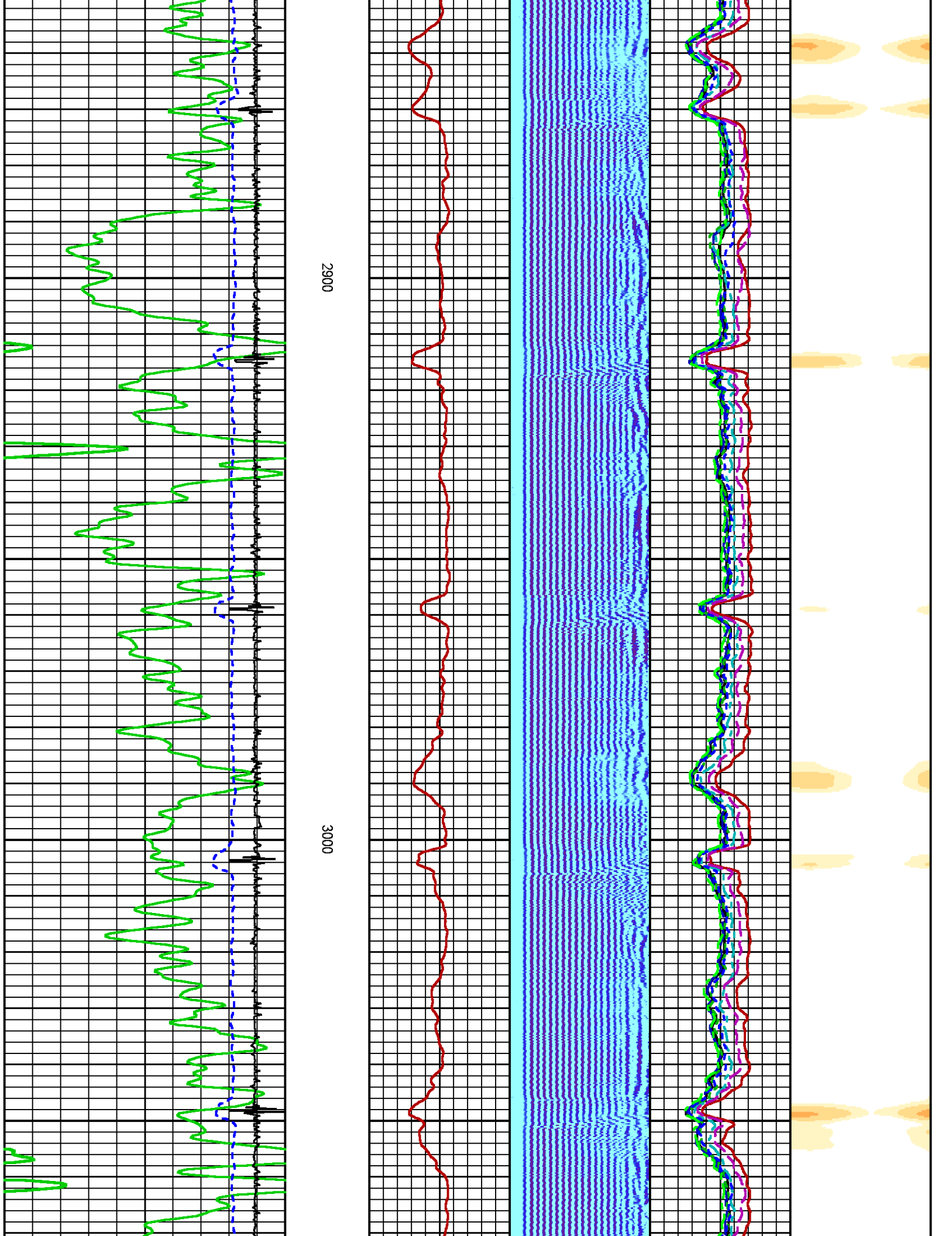


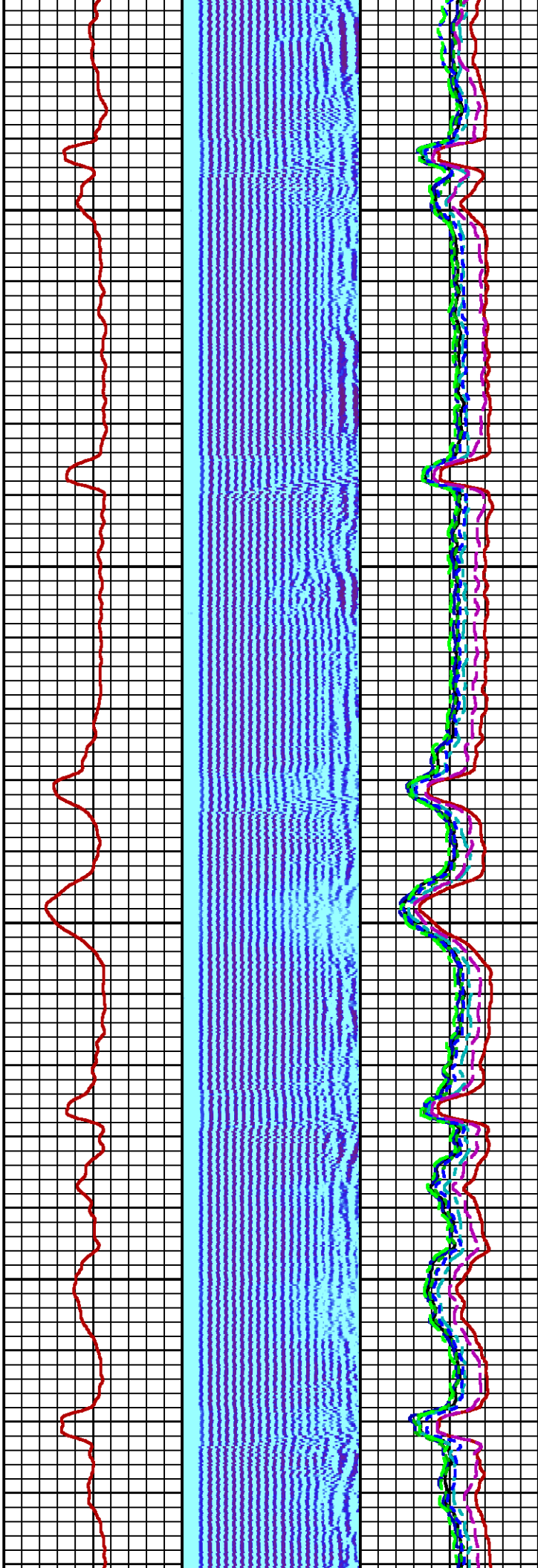
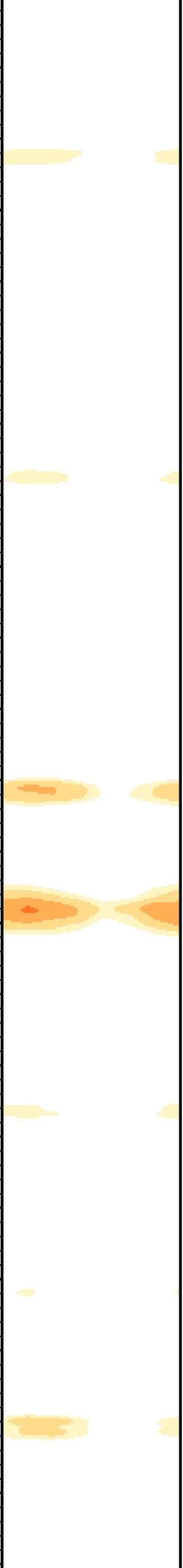


2700

2800

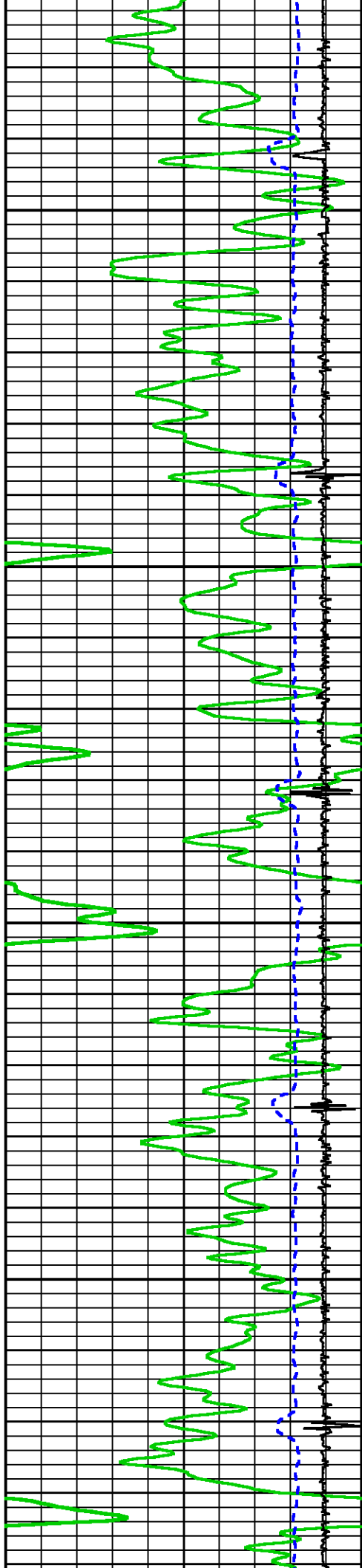


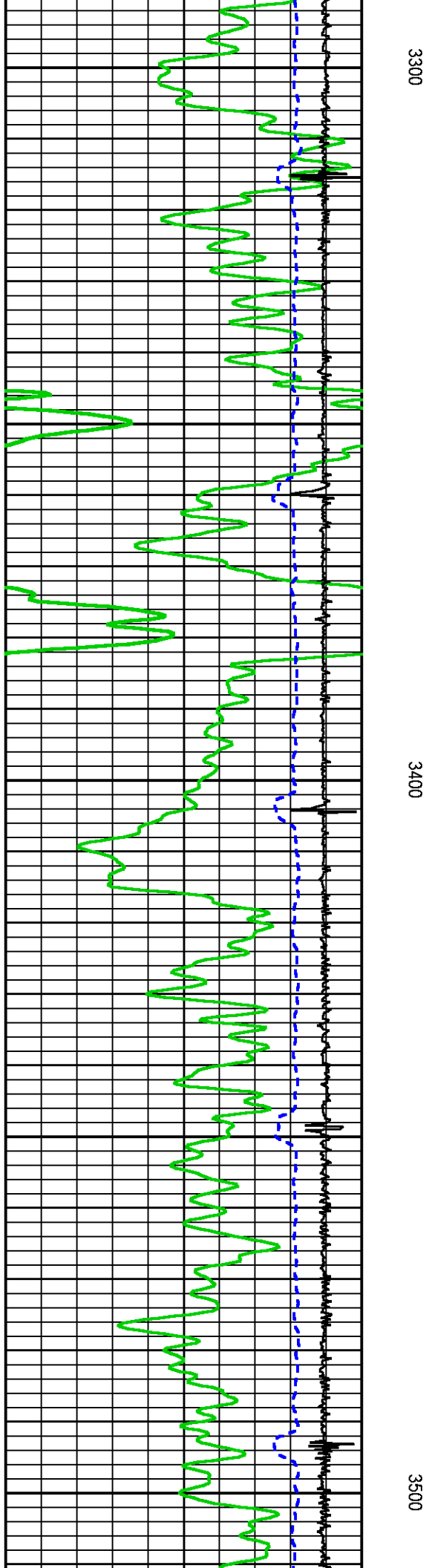
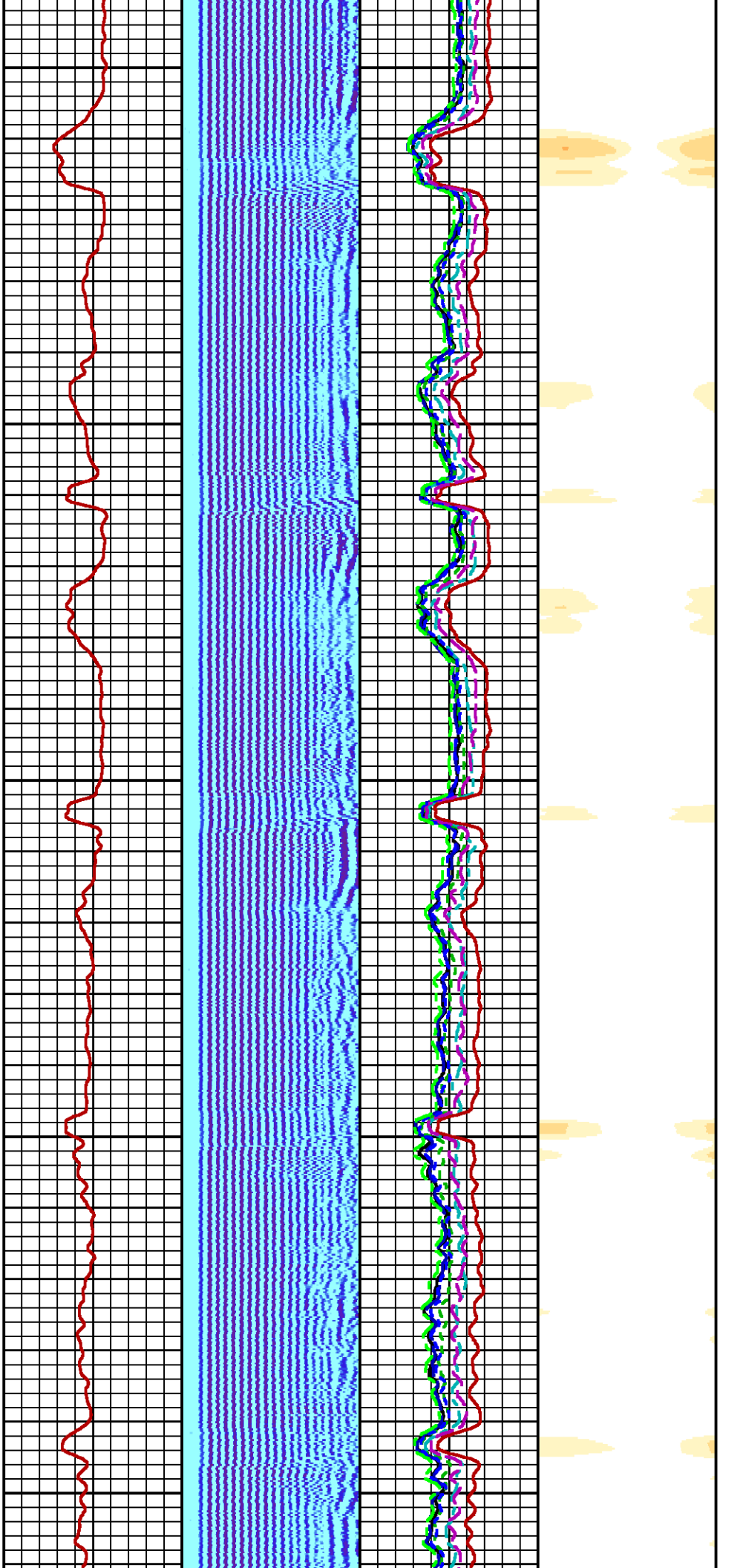


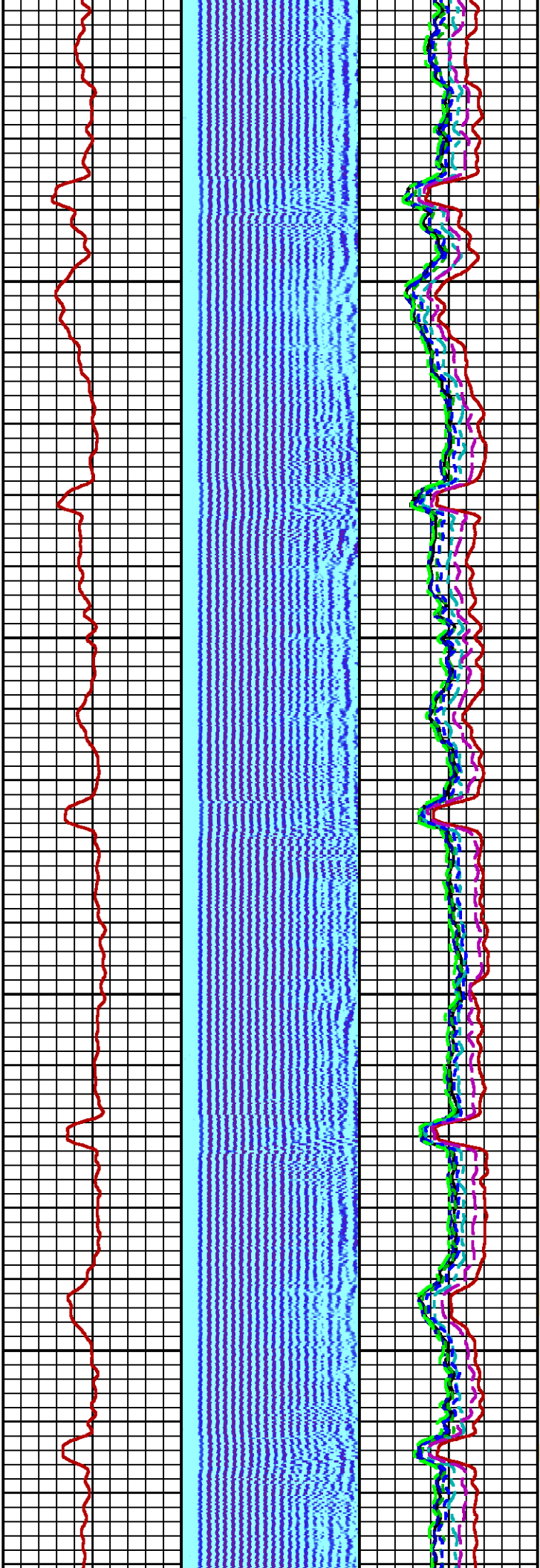
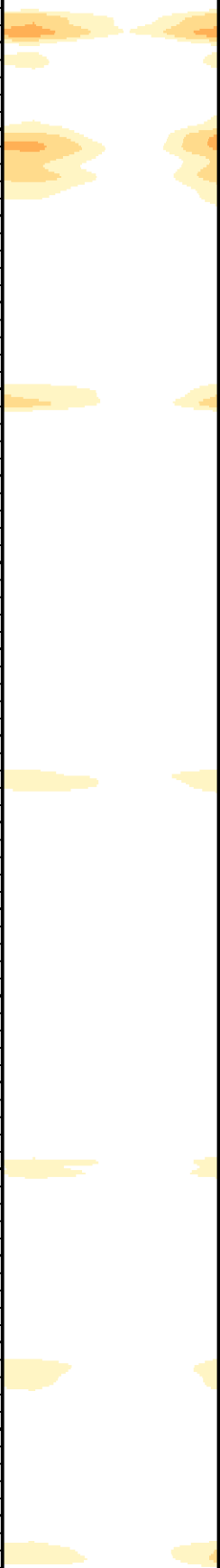


3100

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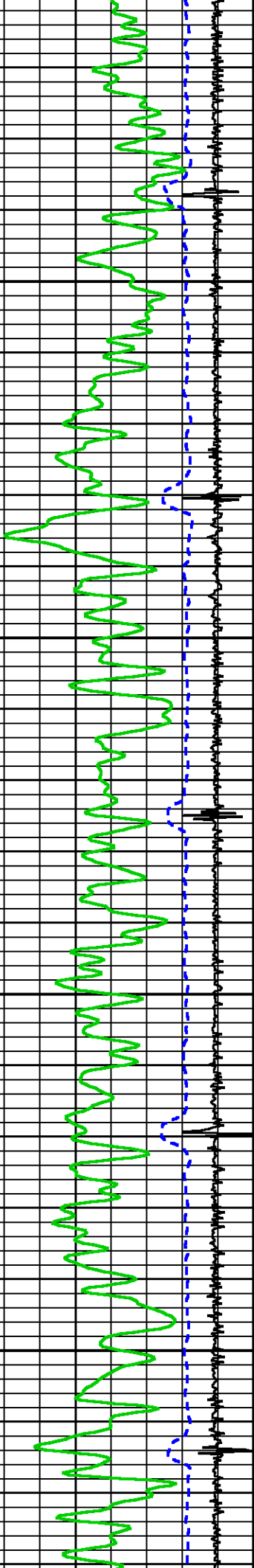


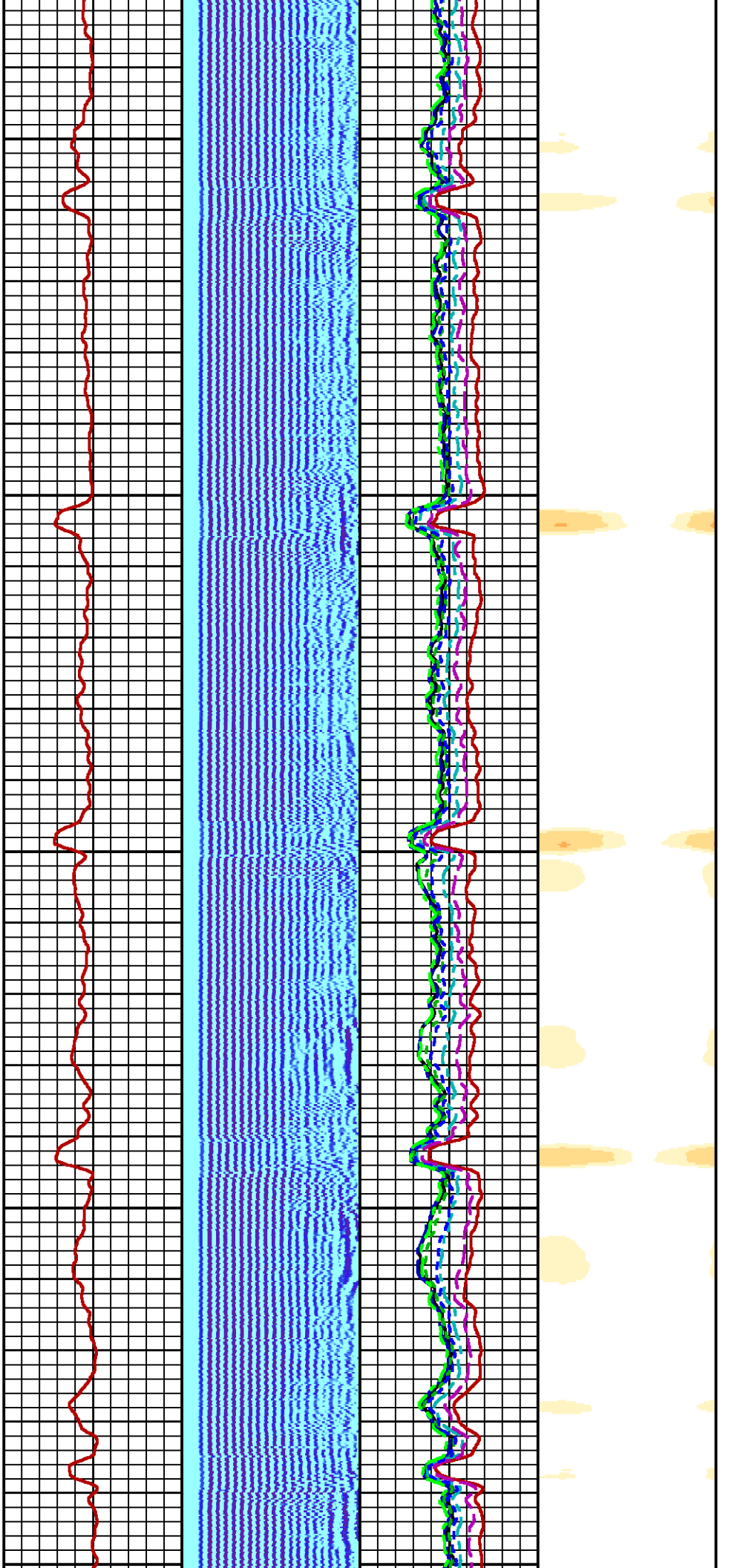




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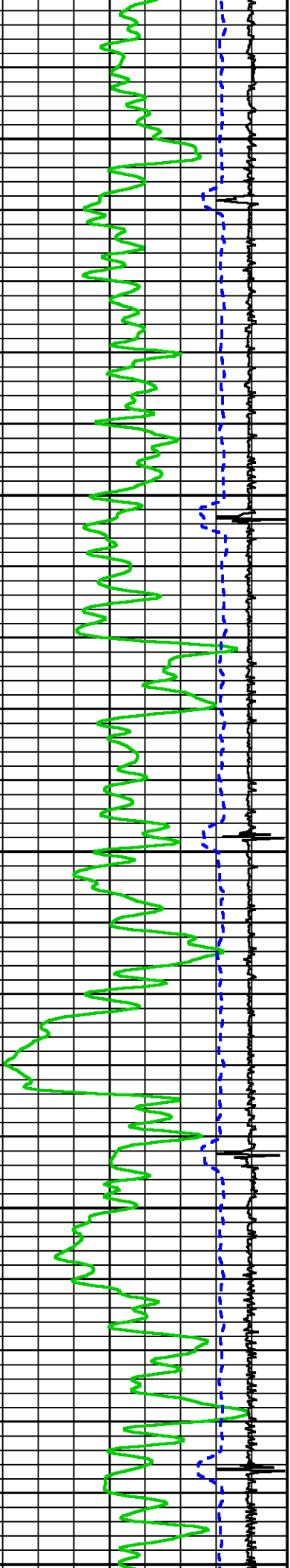
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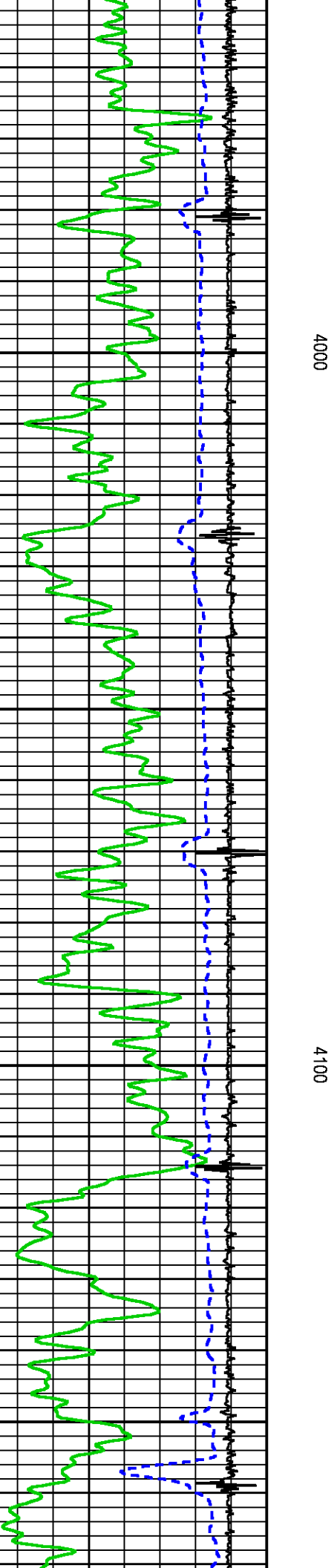
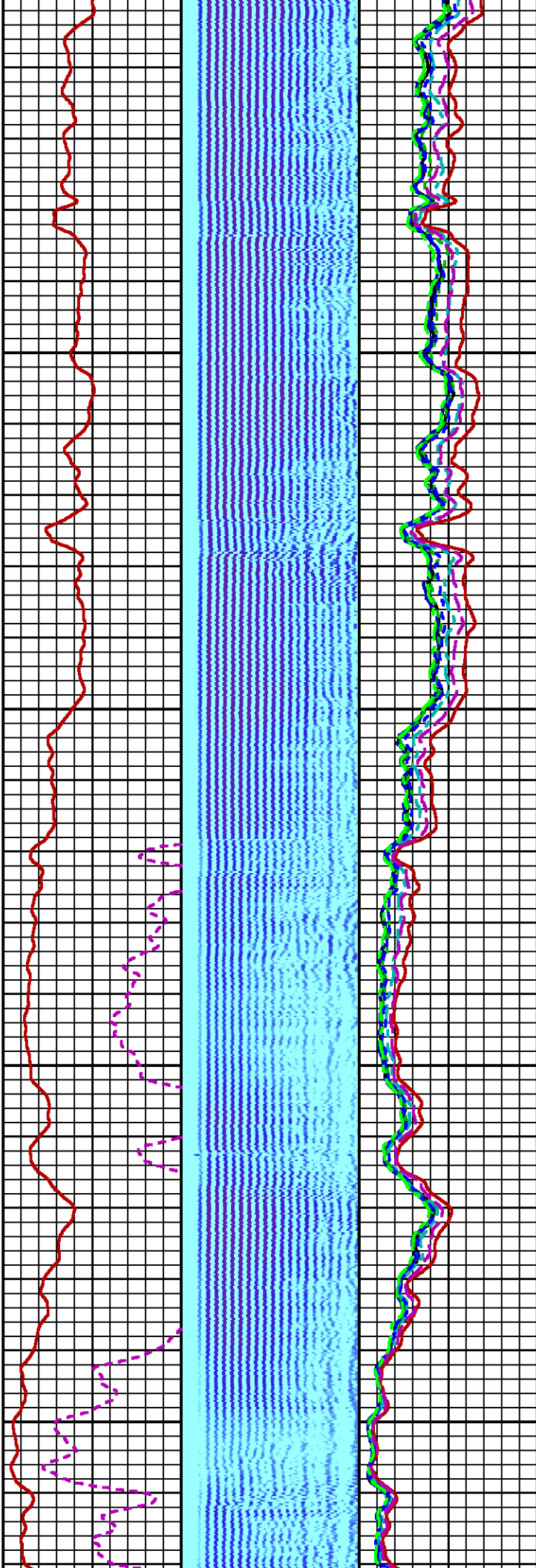
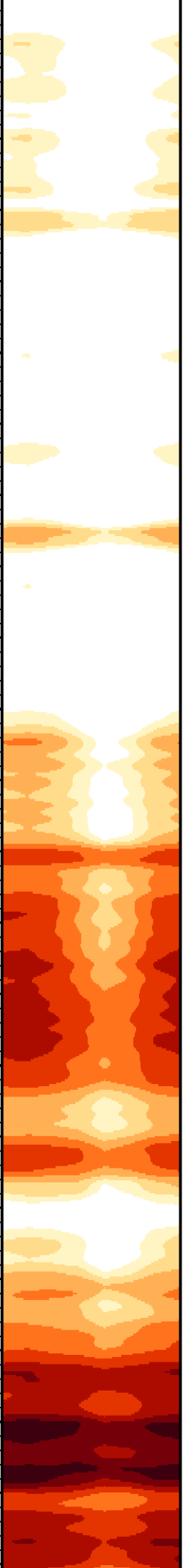


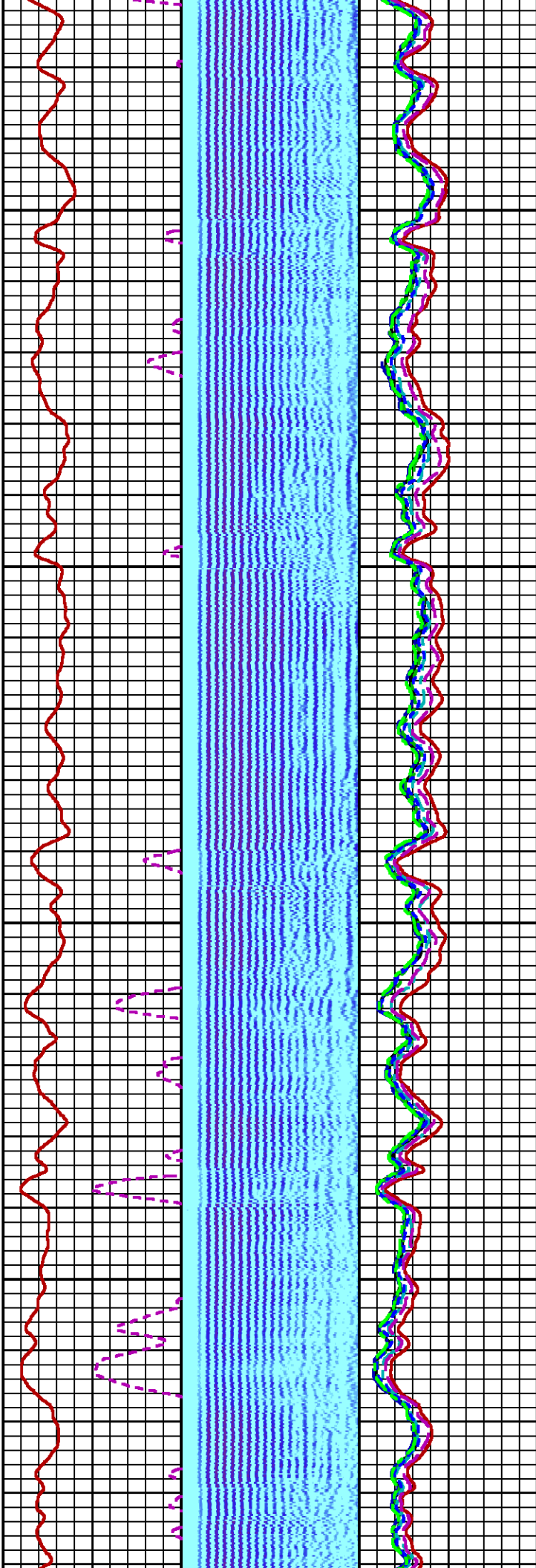
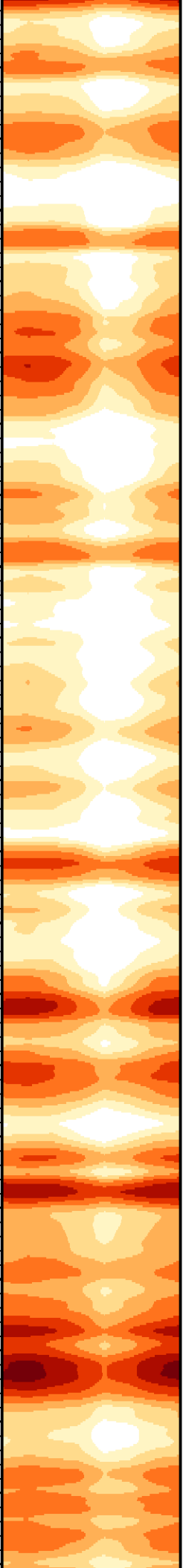


3800

3900

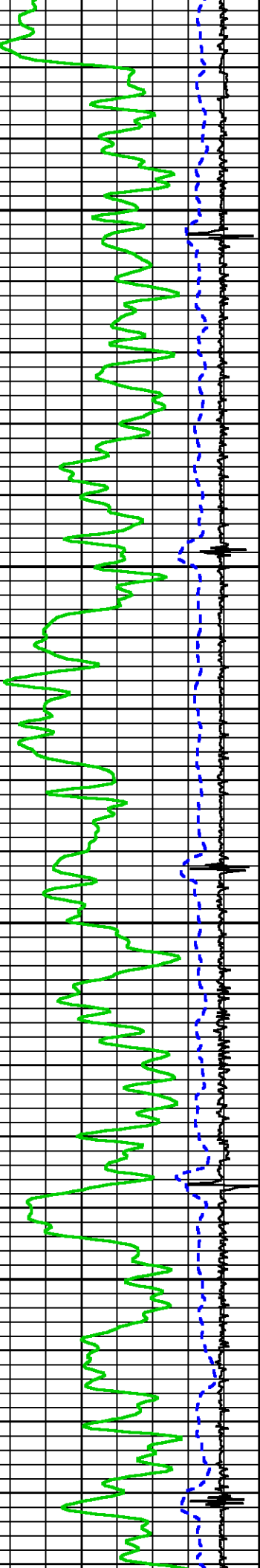


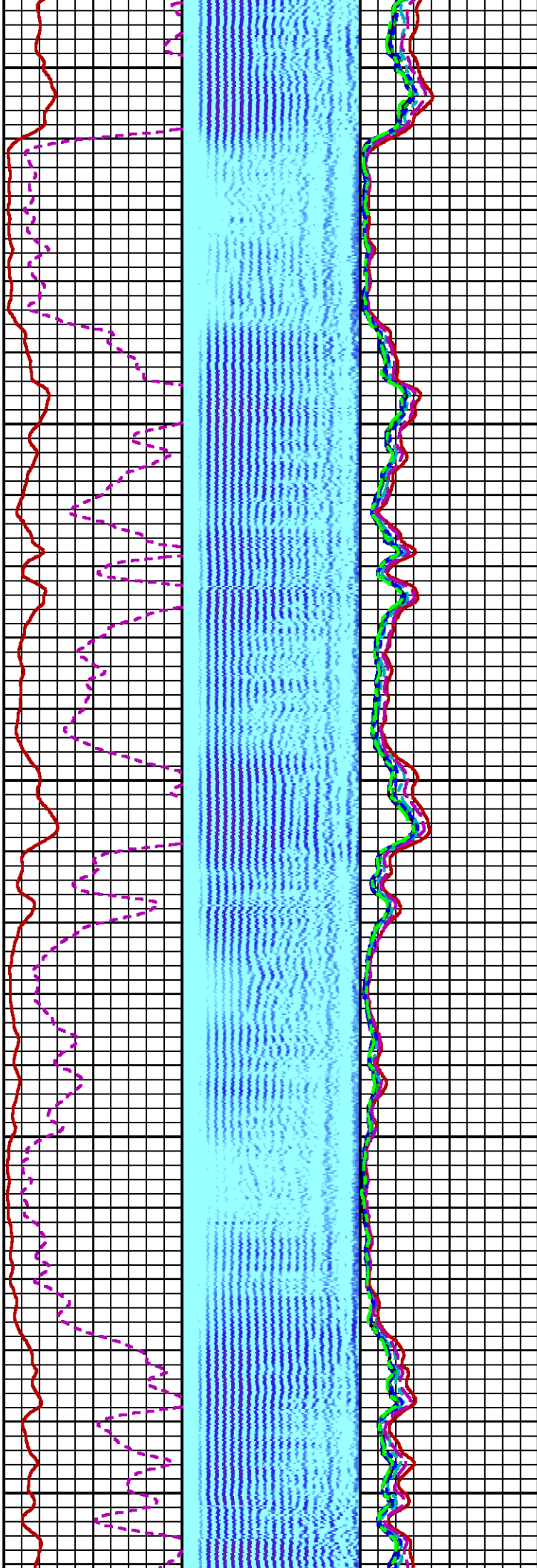
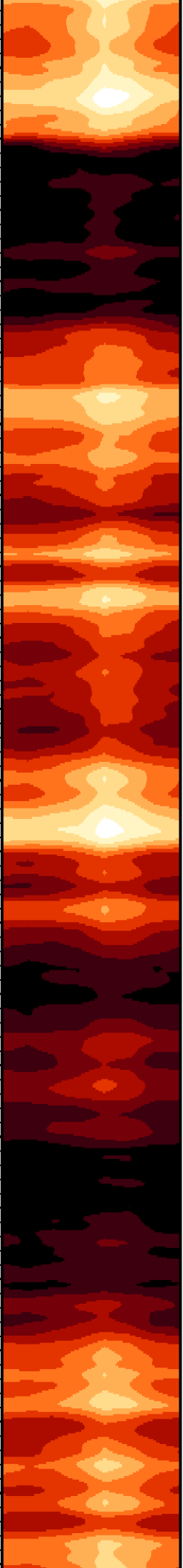




4200

4300

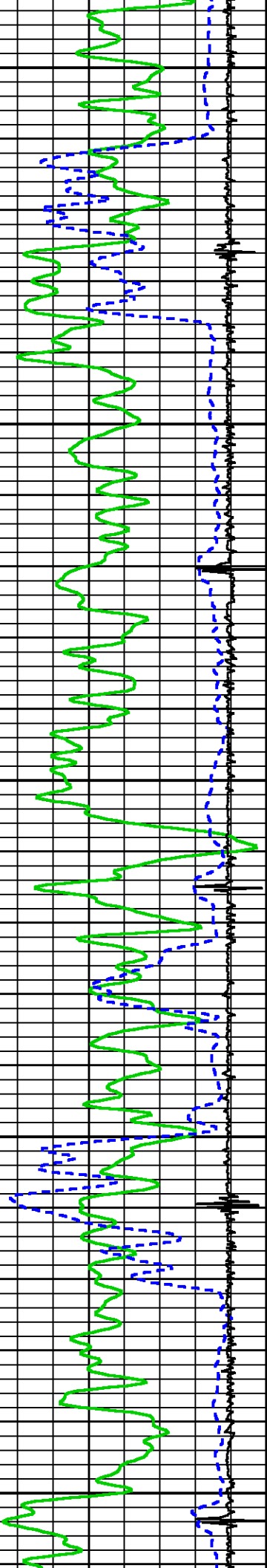


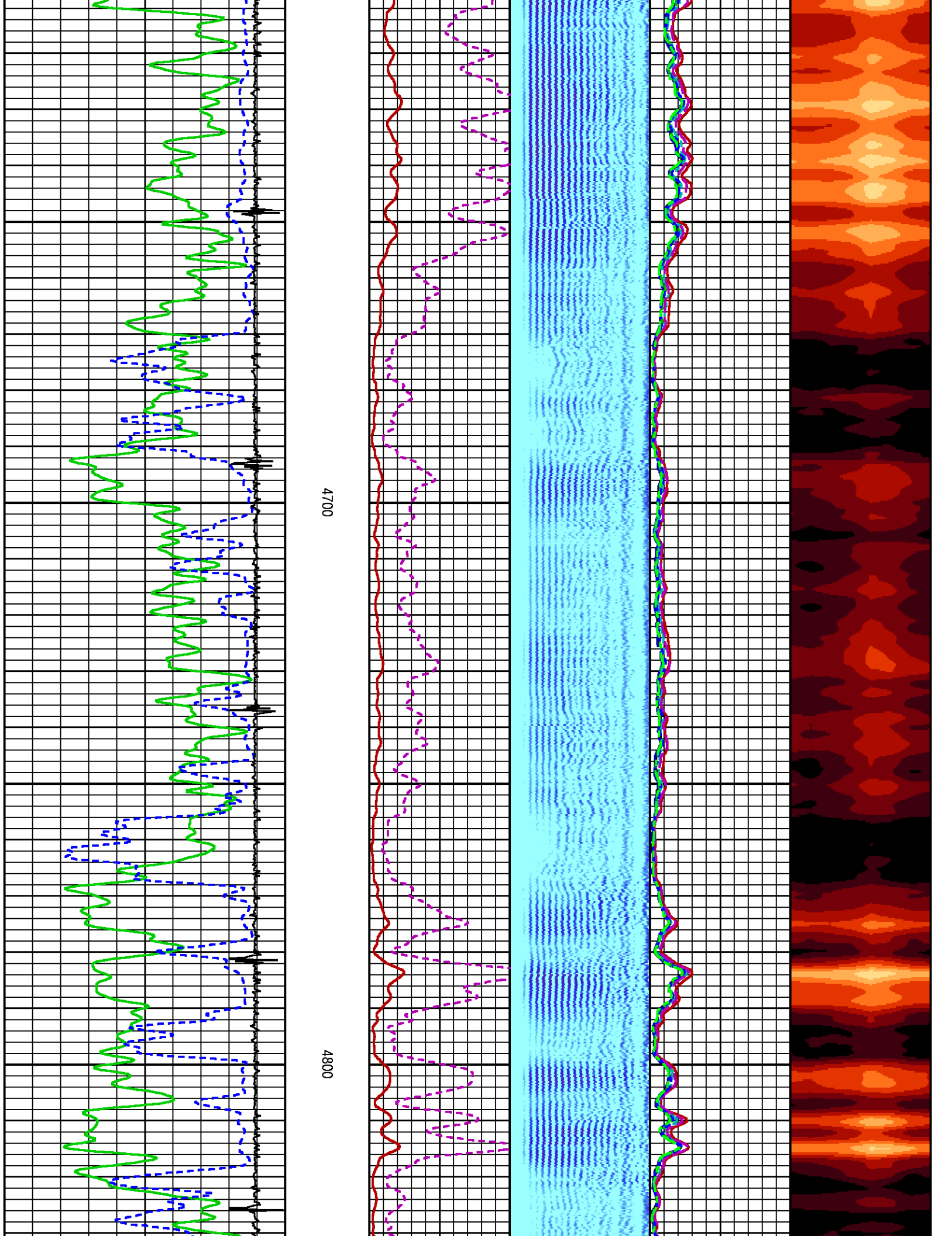


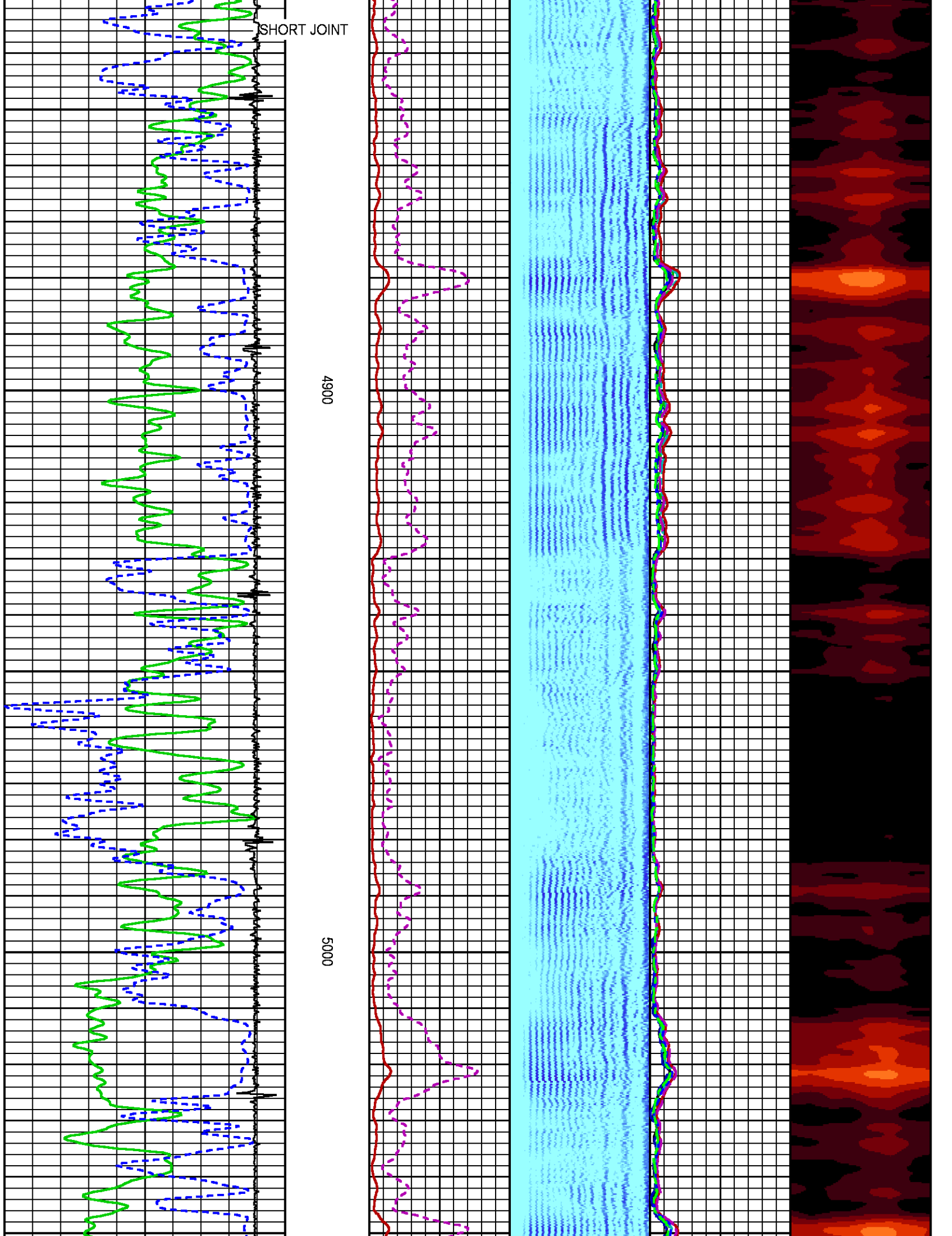
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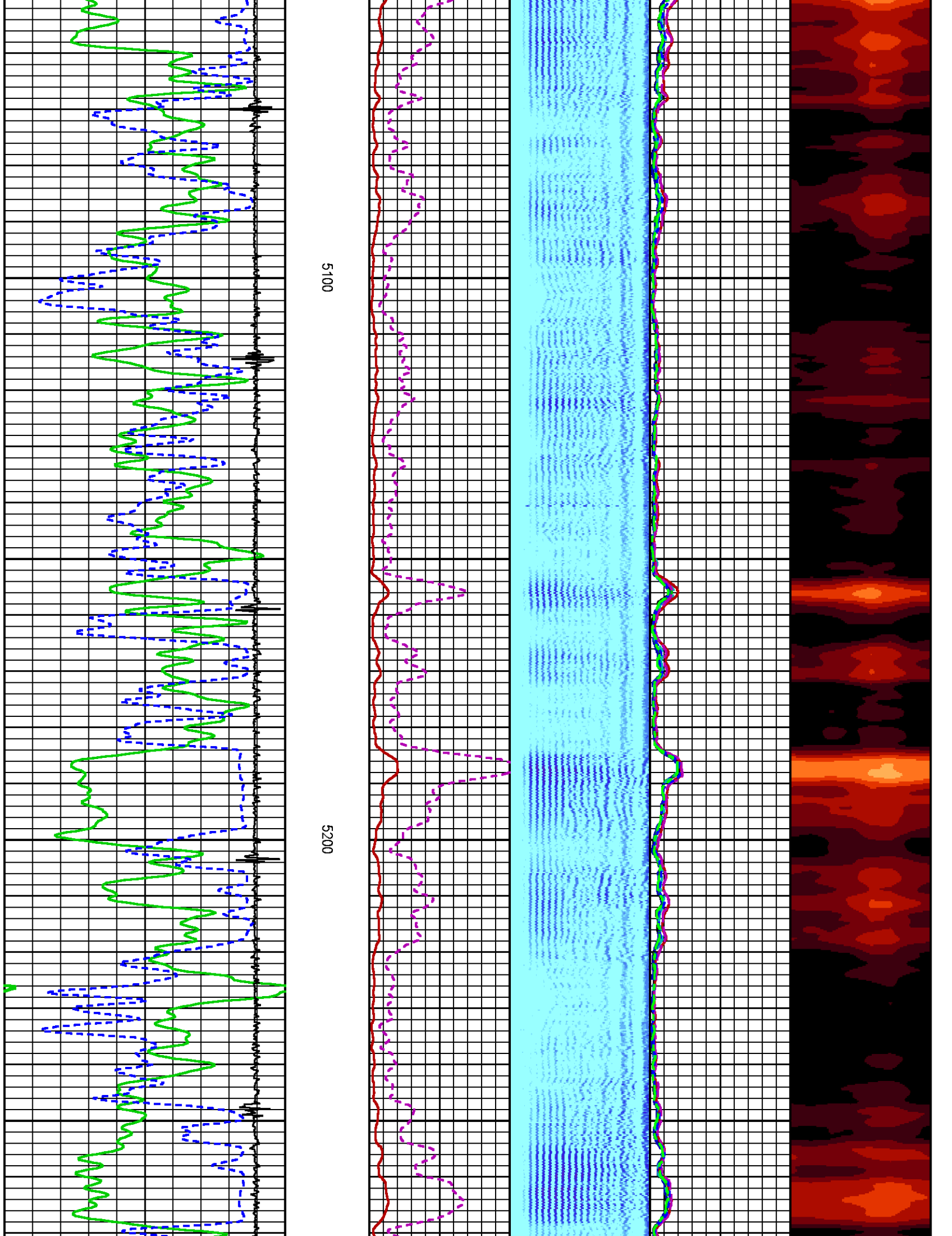
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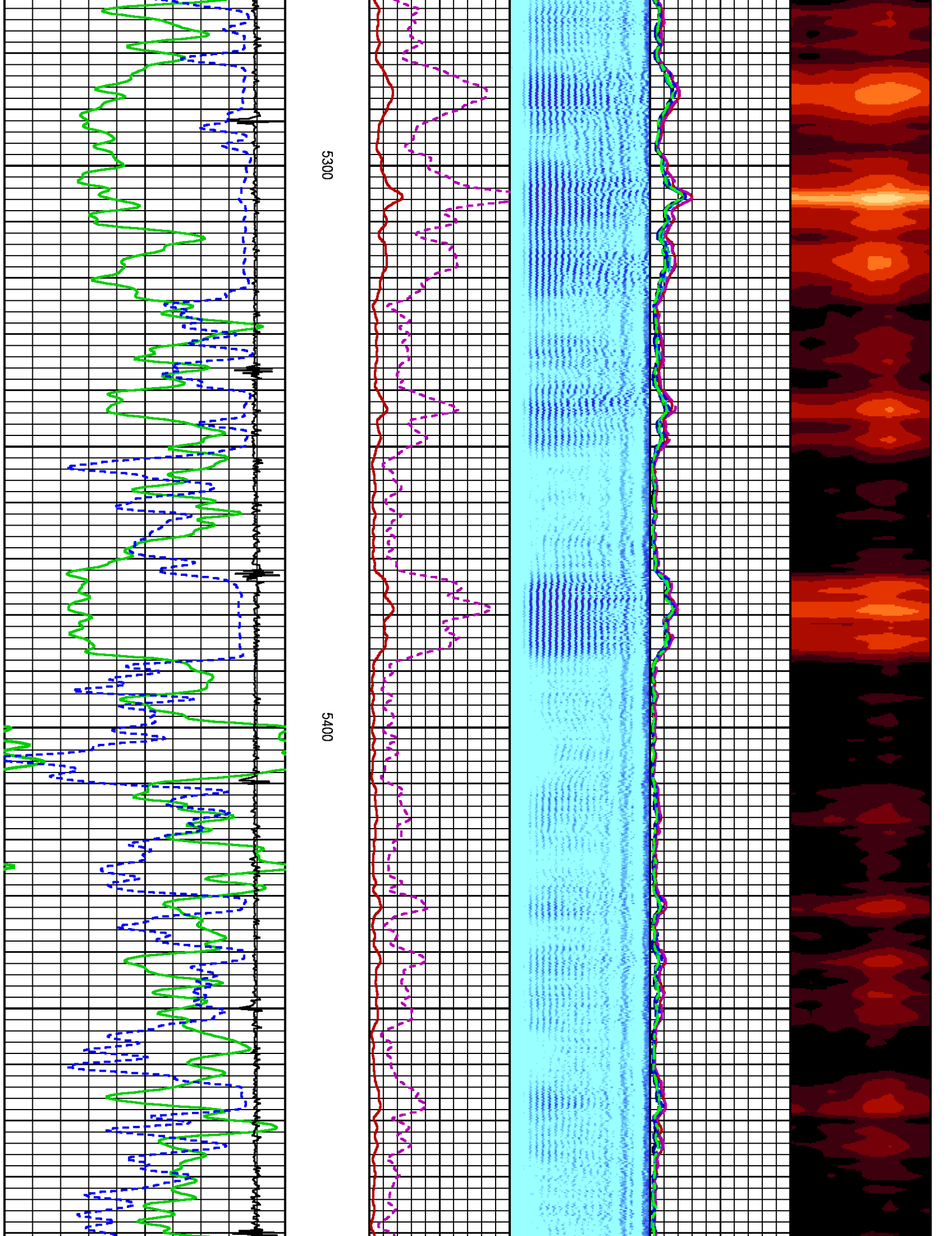
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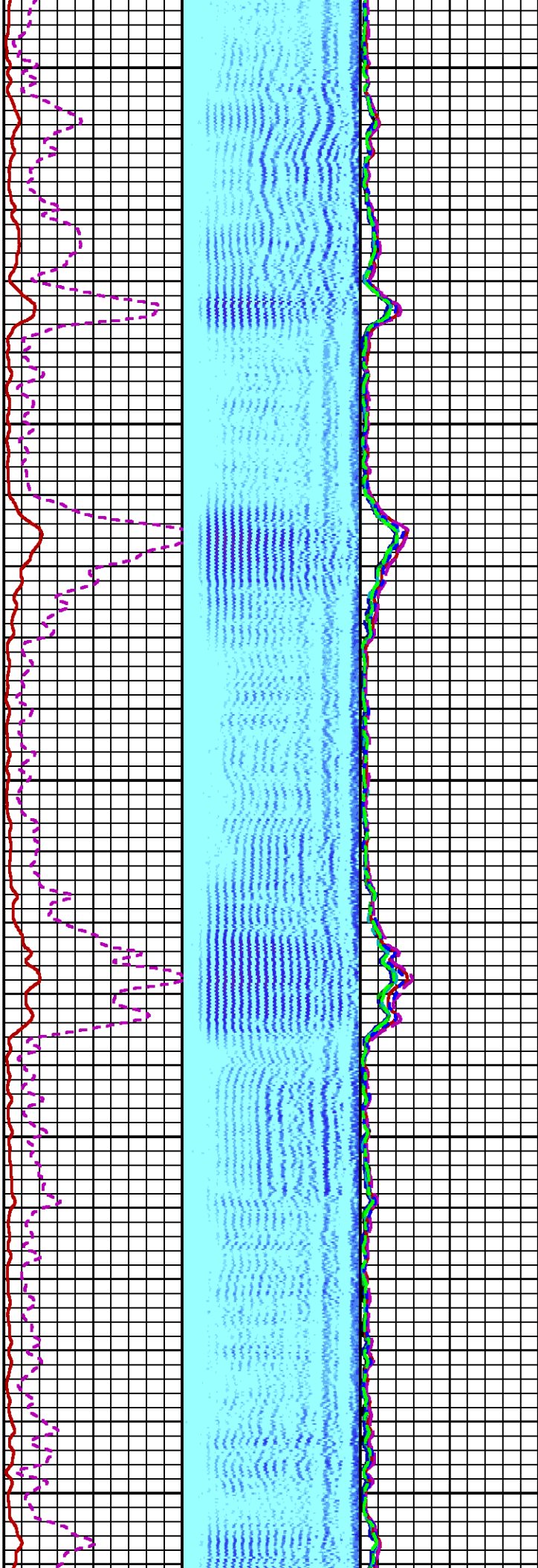








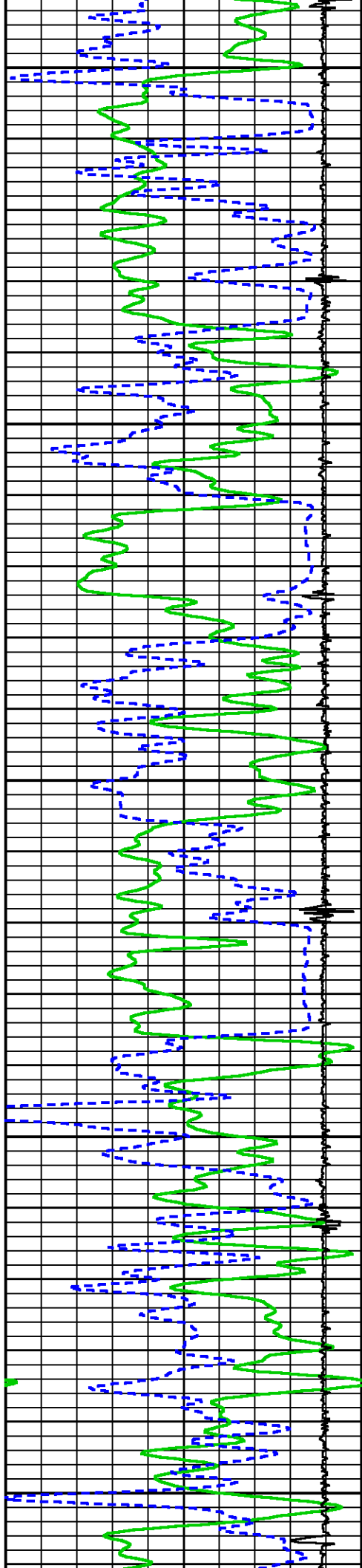


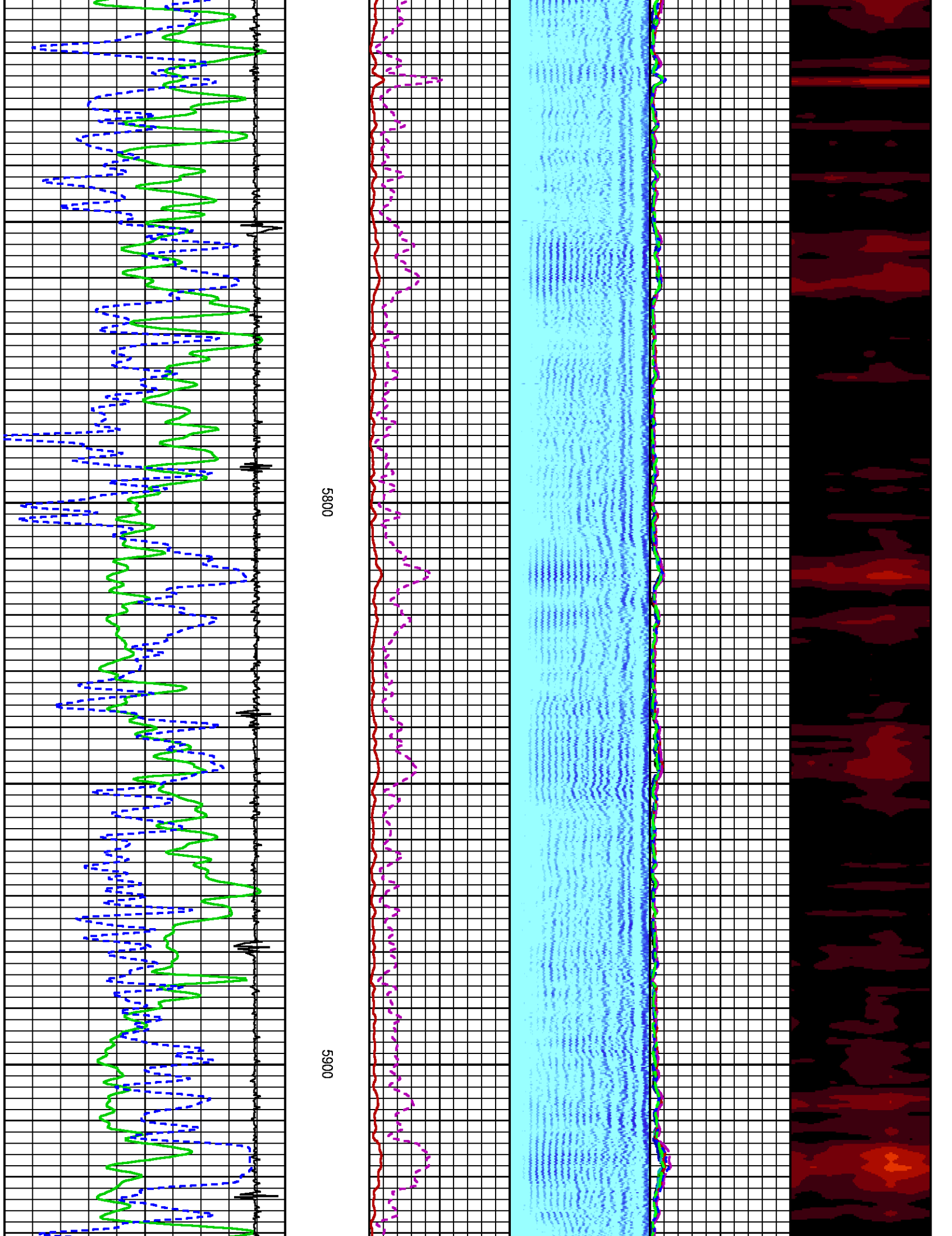


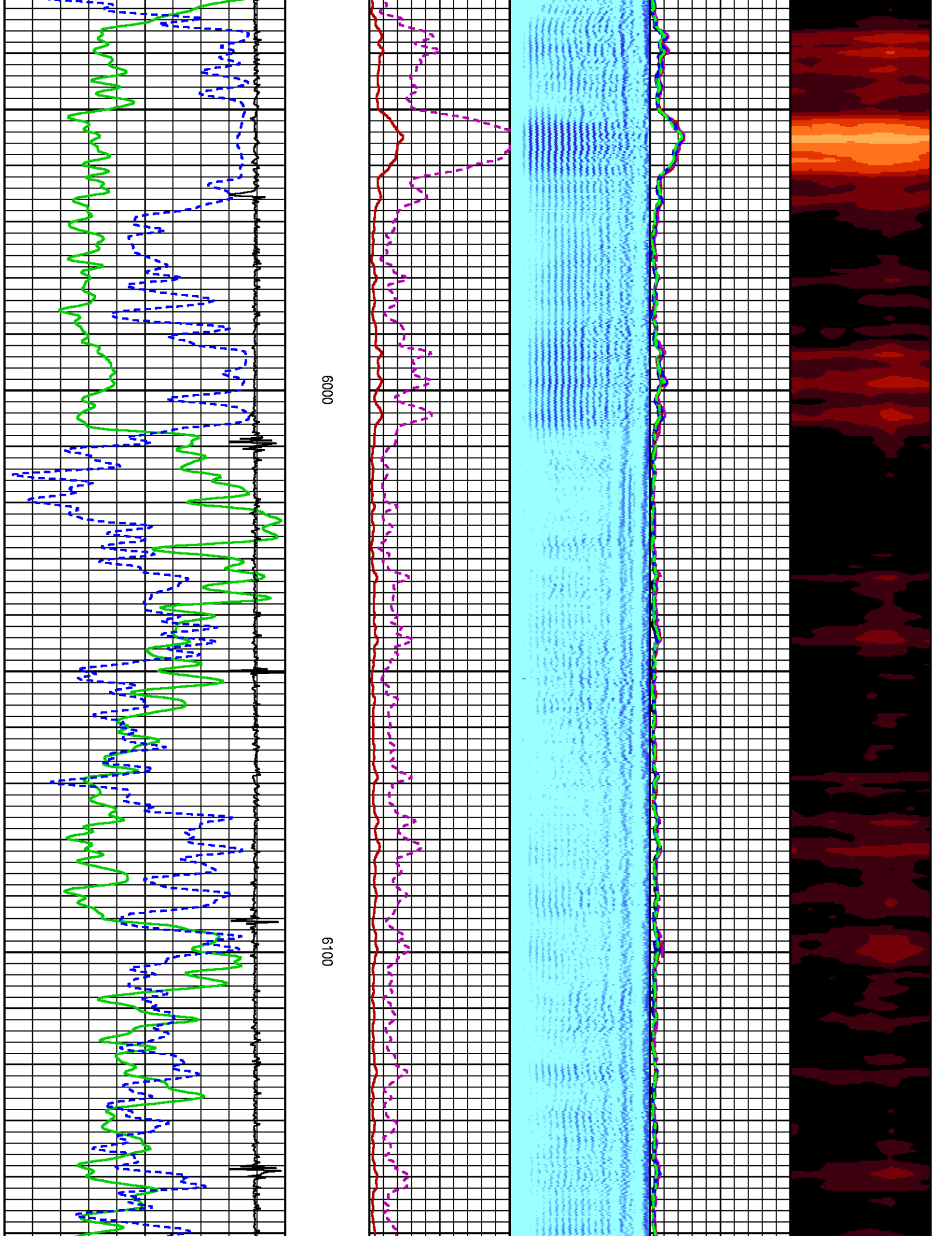
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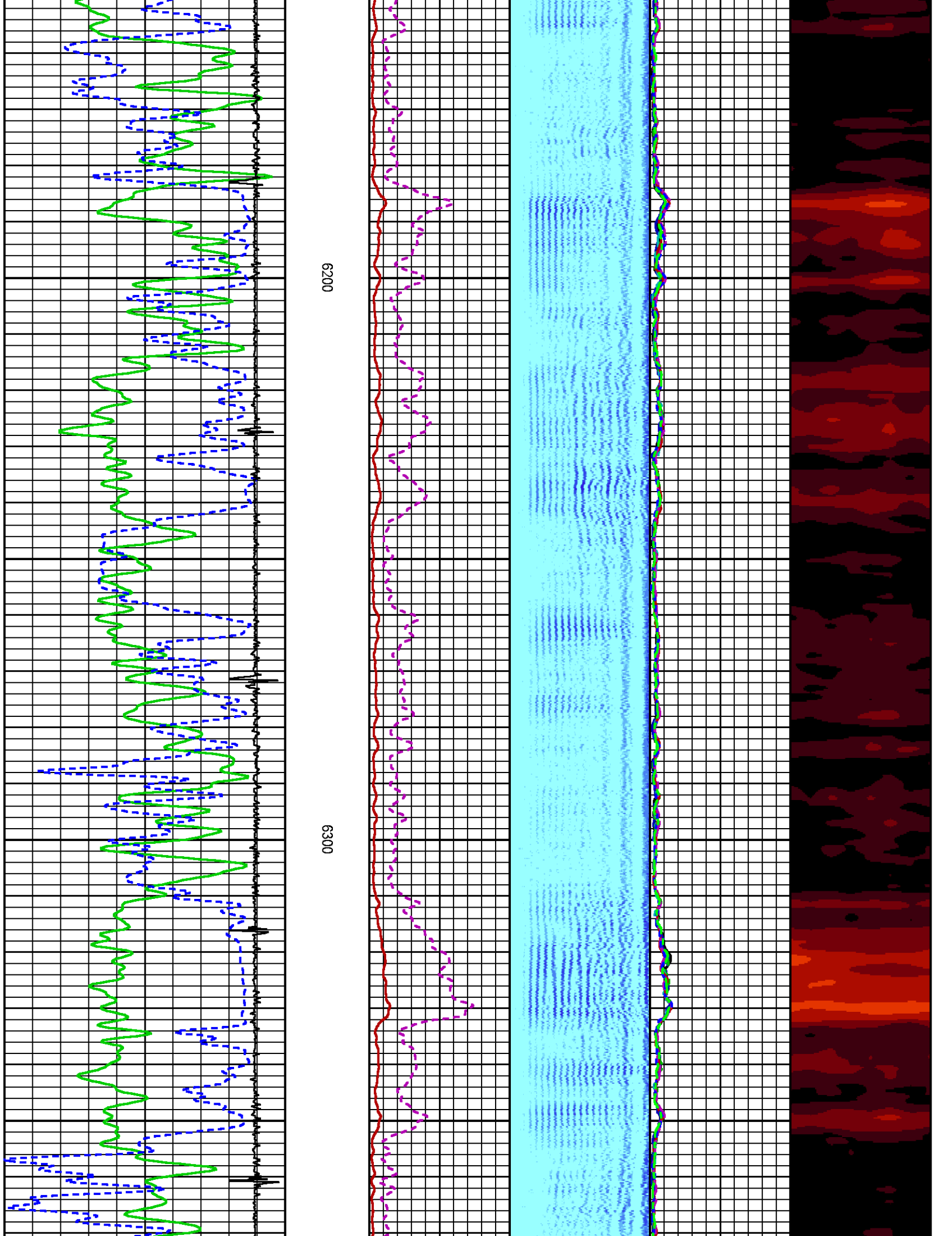
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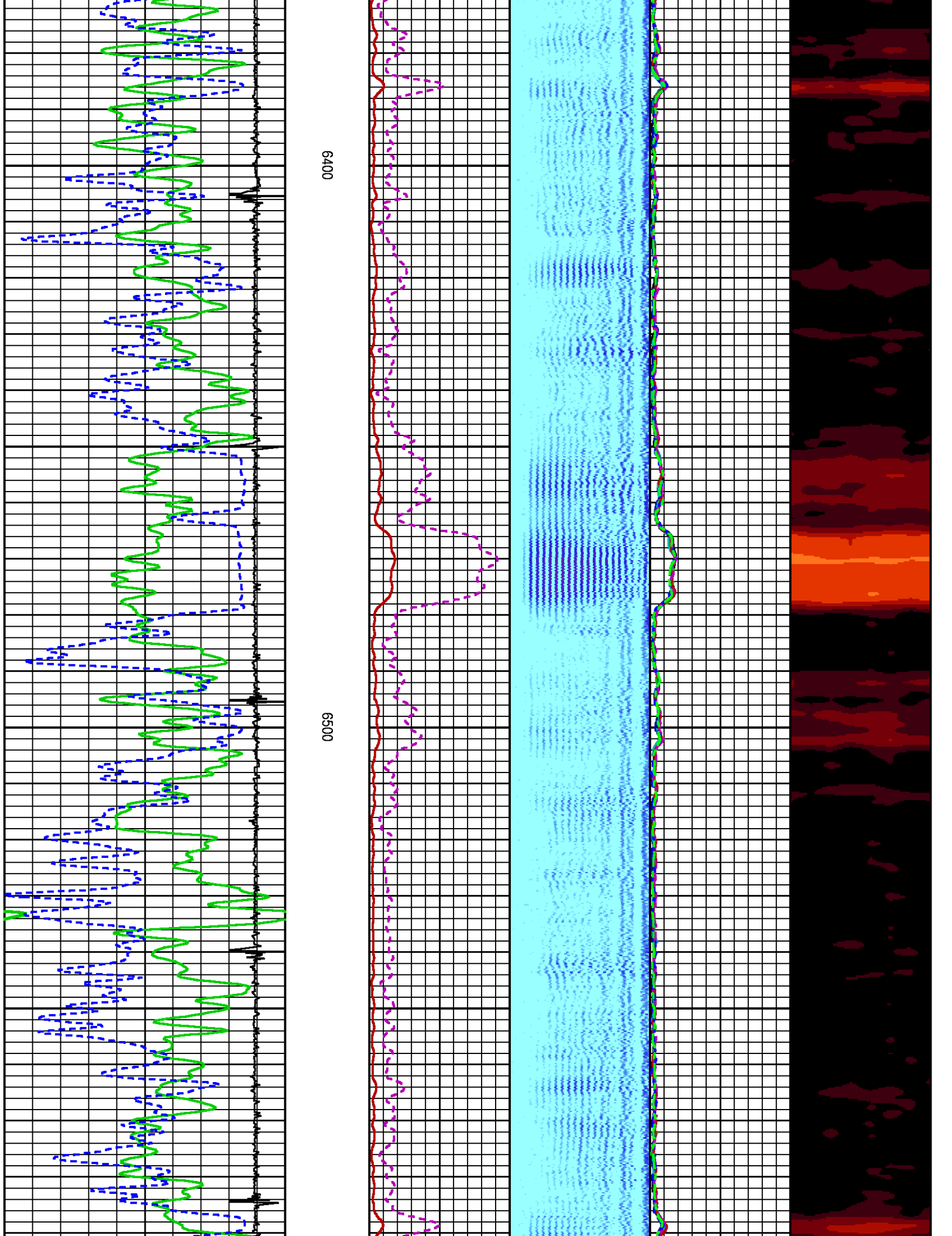
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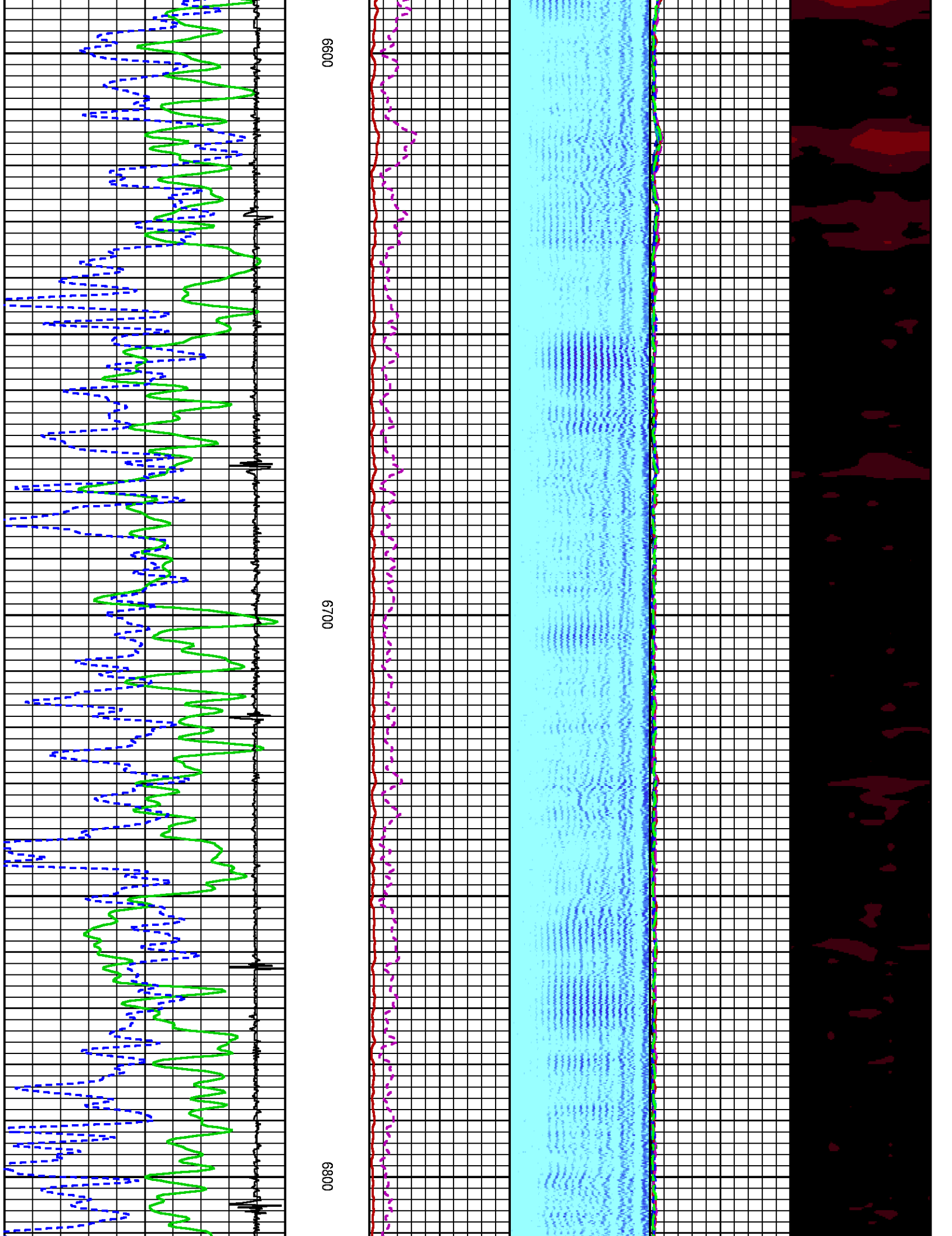


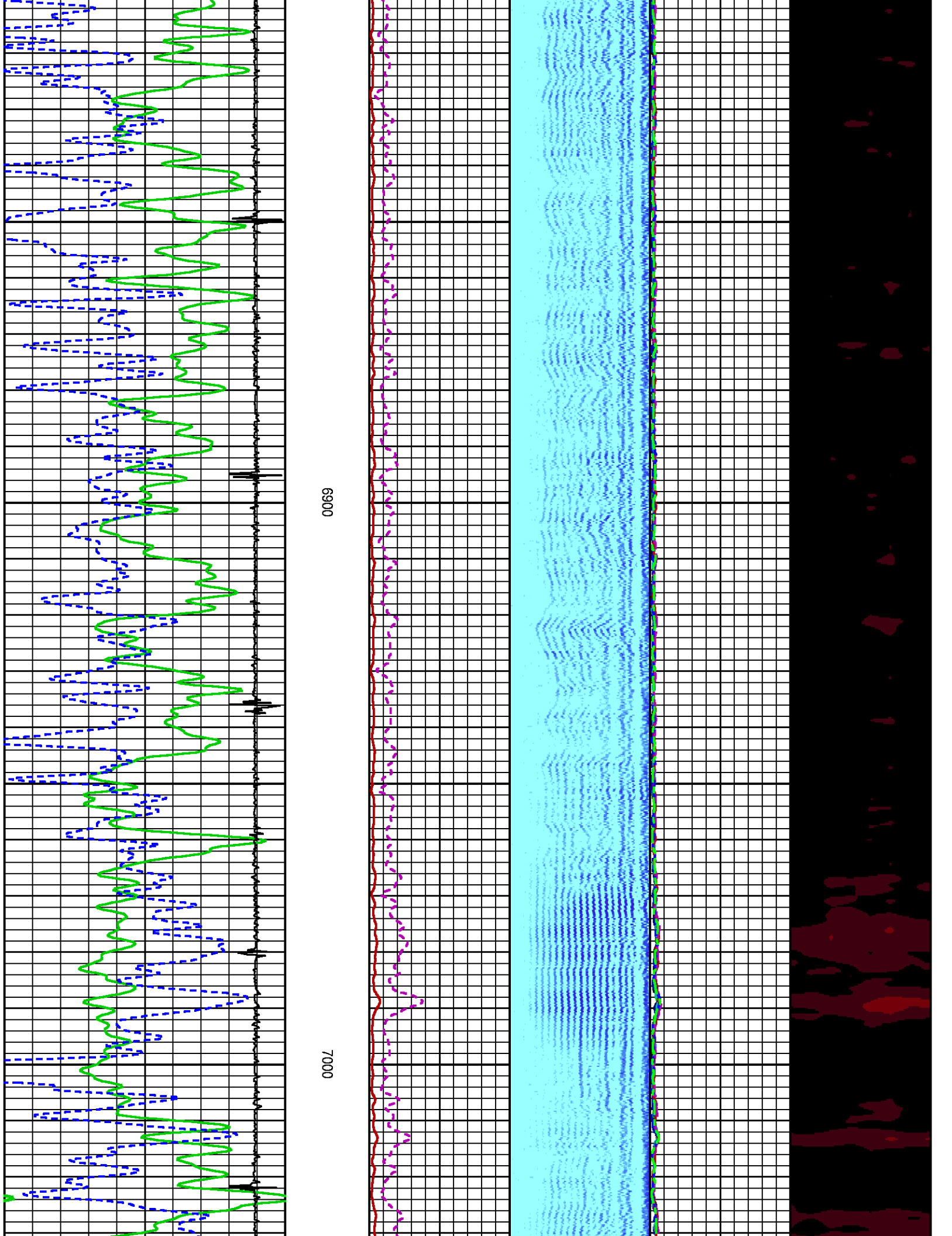


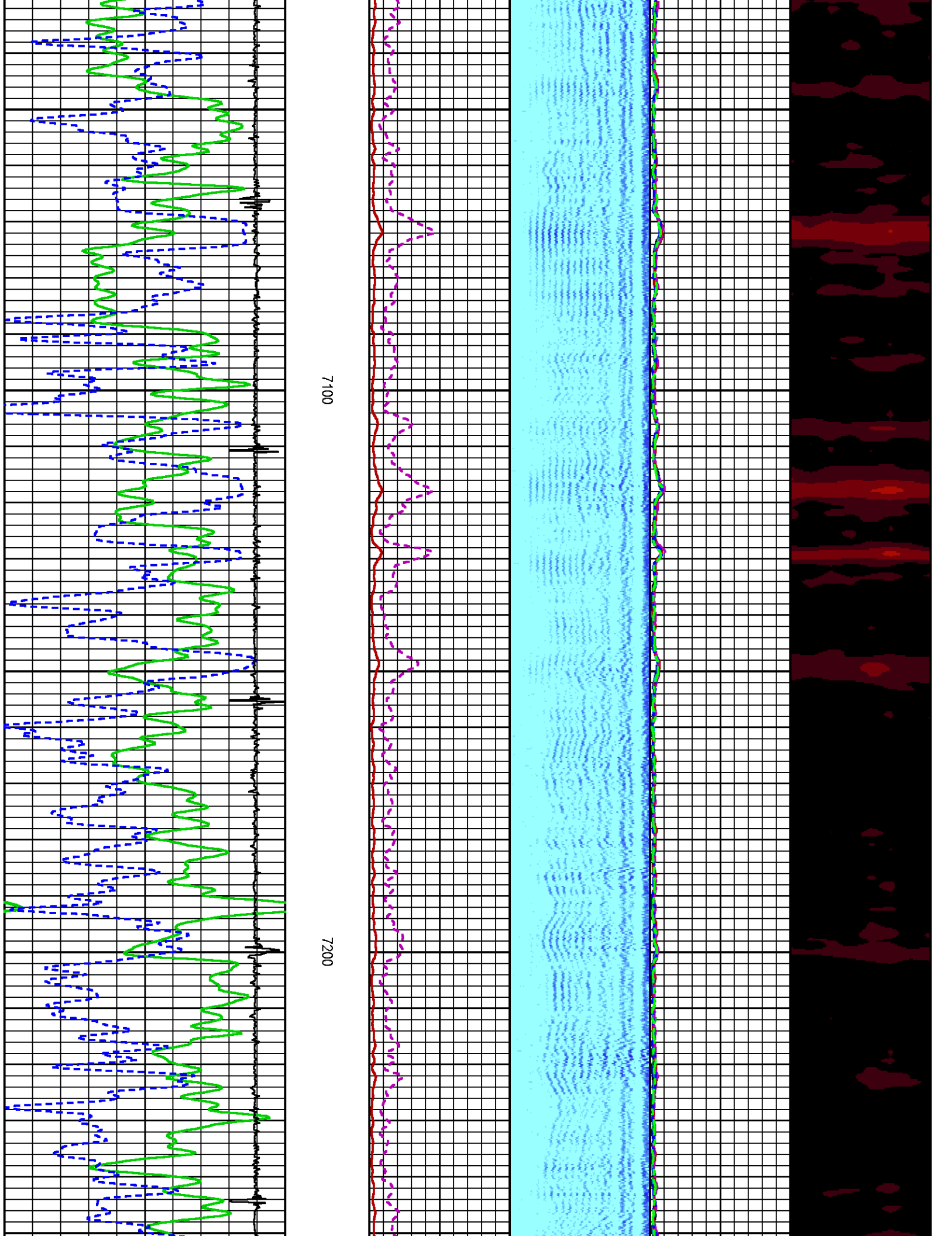


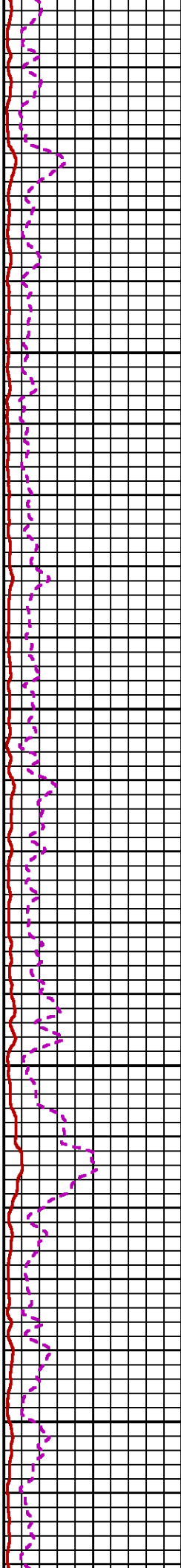
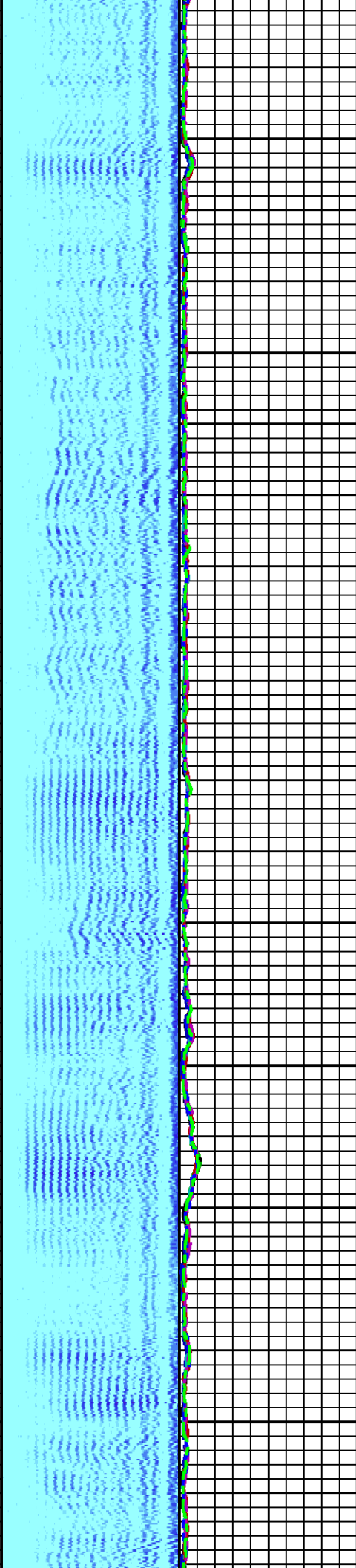






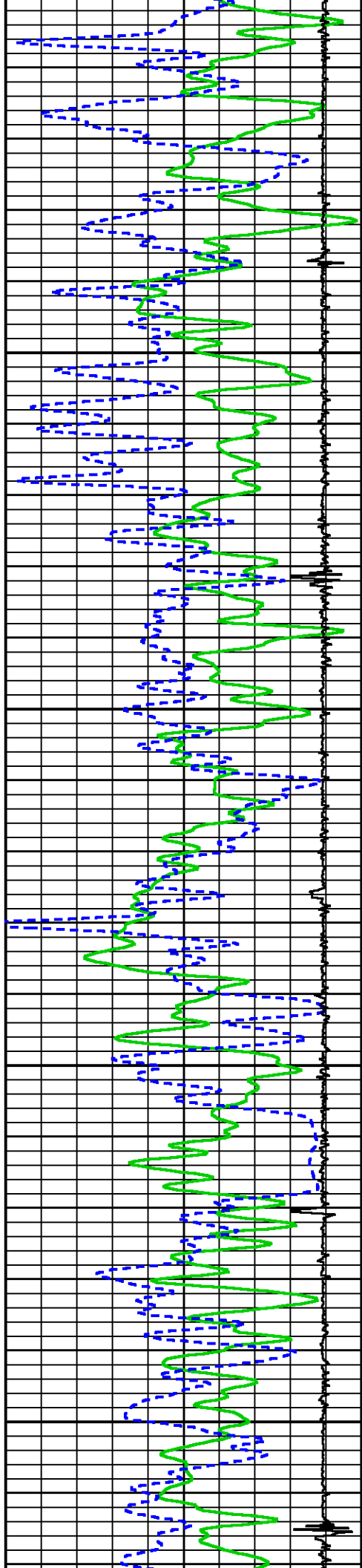


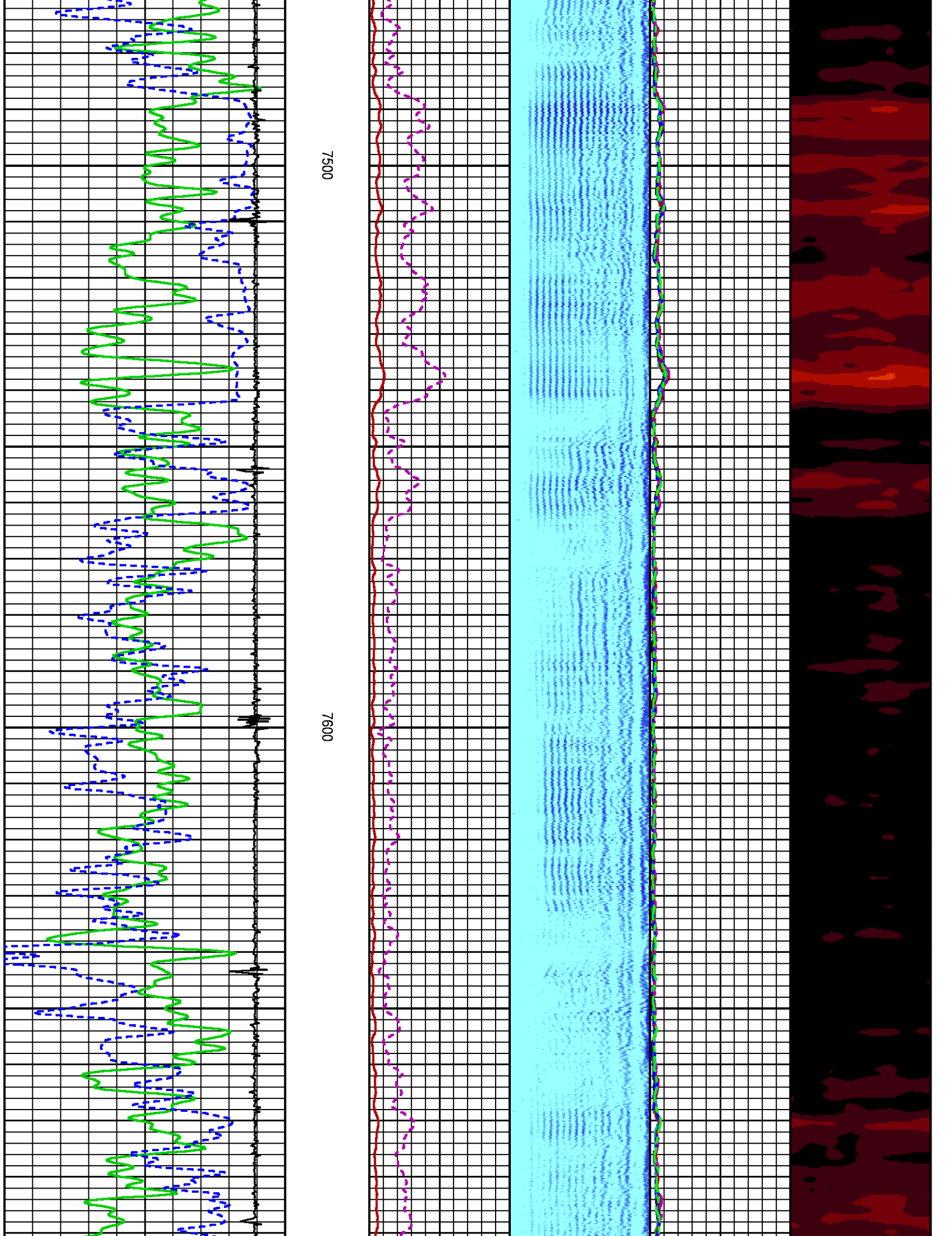


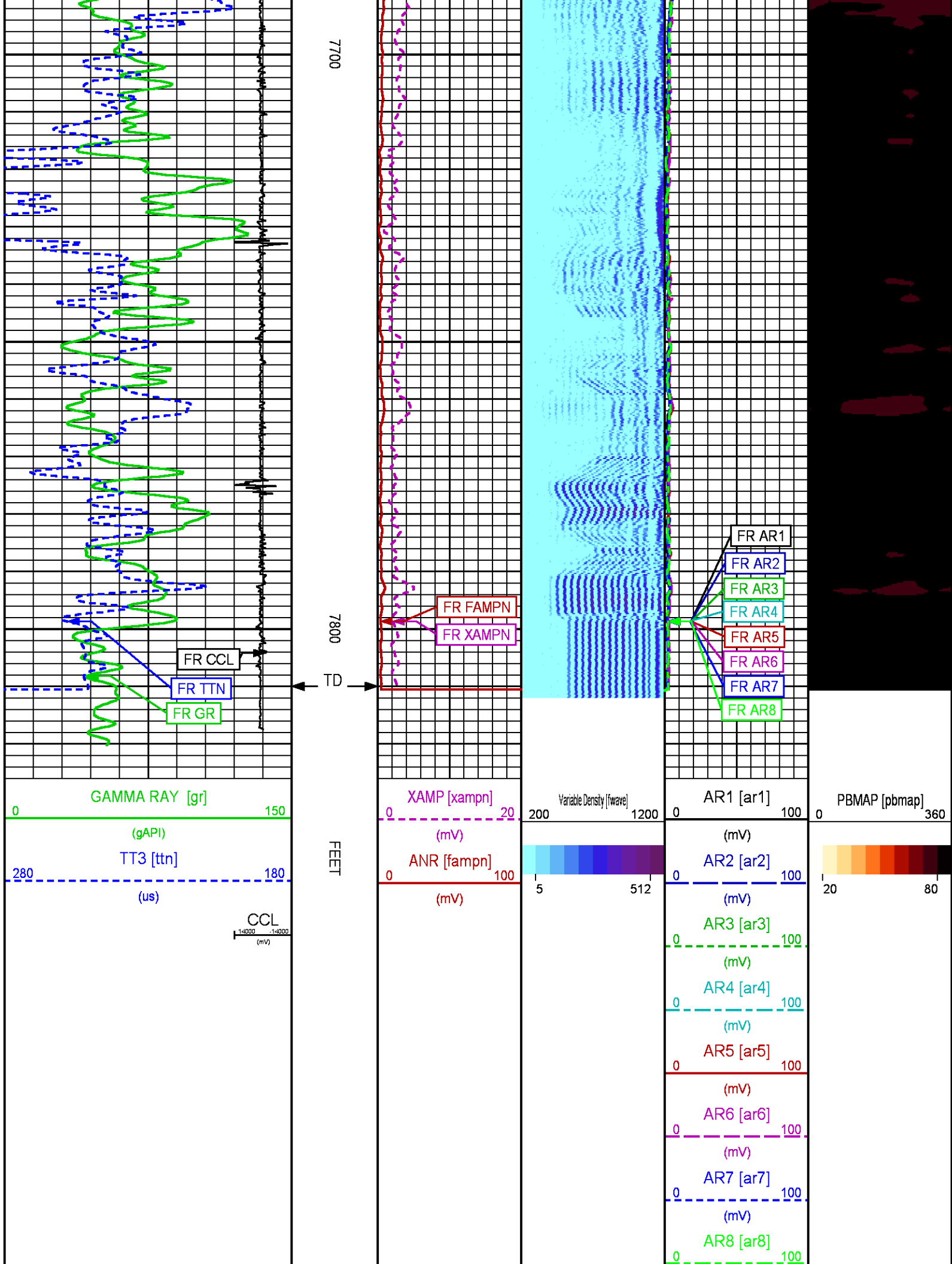


7300

7400







REPEAT PRESENTATION 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: Thu Jul 28 11:33:45 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108535/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7488.250 ft BOTTOM DEPTH: 7812.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	186	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	176	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-68	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	135	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jul 28 08:33:55 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 28 08:33:55 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 28 08:33:55 2016	FAR WAVE FORM
F1:GR	Jul 28 08:33:55 2016	GAMMA RAY
F1:TTN	Jul 28 08:33:55 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 28 08:33:55 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

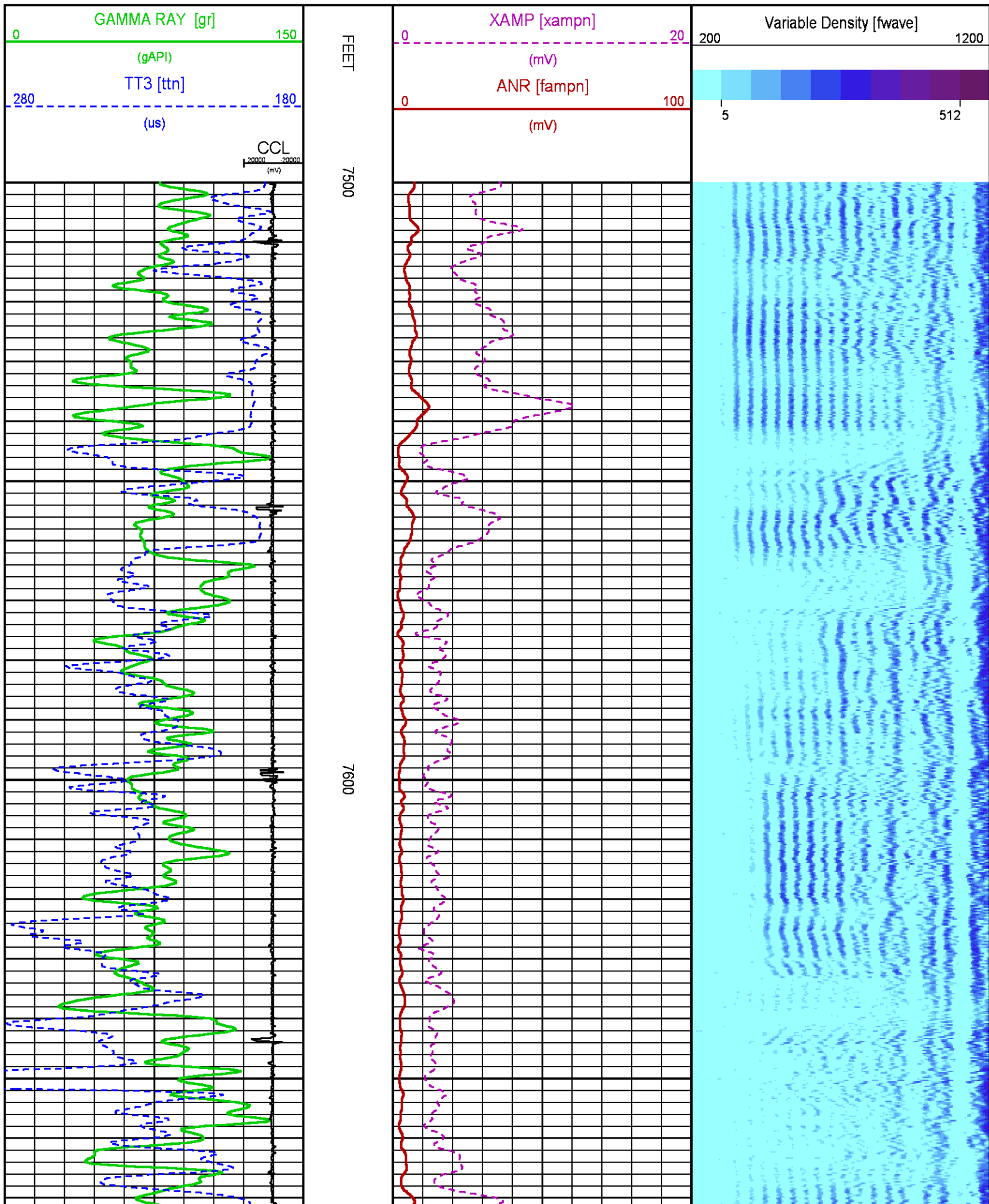
CURVE MEASURE POINT OFFSET

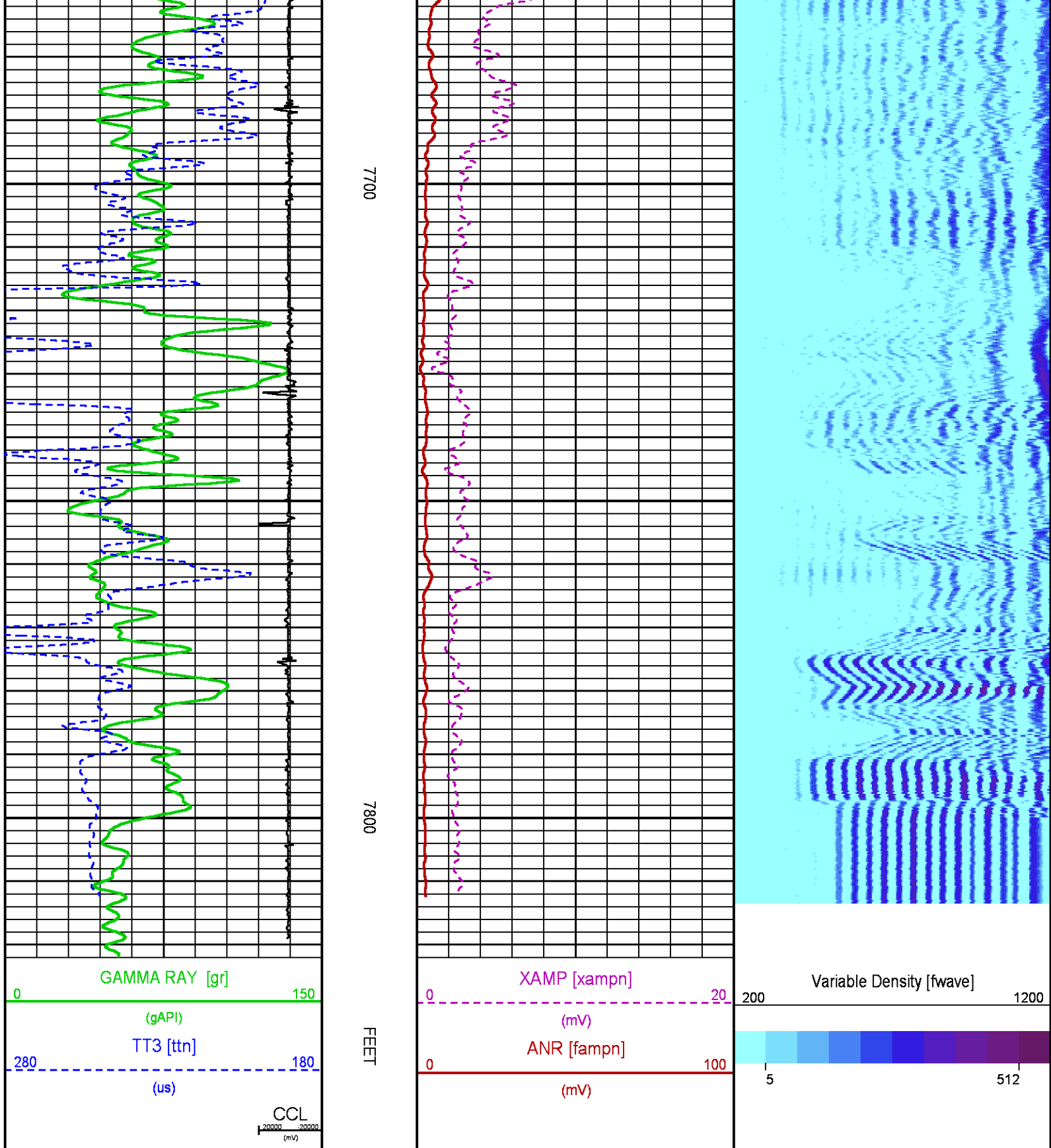
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation : cas6685:/dat1a/CH108535/432CBL_REPEAT.fvpdf [5"/100' Scale]
 Plot Interval : 7500 - 7823.25 Feet

Data File 1 : F1 : cas6685:/dat1a/CH108535/432CBL_REPEAT.xtf
 Created On : Jul 28 08:33:55 2016

Created On : Jul 28 08:53:53 2016
Company : TERRA ENERGY PARTNERS LLC
Well : FEDERAL GM 432-9
Field : GRAND VALLEY
File Interval : 7489.25 - 7824.75 Feet
OCT : n012g





CALIBRATION / VERIFICATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Thu Jul 28 08:03:43 2016

UNIT #: 3885TC 6685

	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)	-0.05	0.05	0.00	-0.00	0.01	-0.02	-0.07	-0.08	-0.05	0.48	-0.10
AMP FLUID (mV)	114	114	113	113	113	113	113	113	114	150	112
TT (us)	217	217	217	218	218	217	216	215	217	326	217
M FACTOR	0.88	0.88	0.88	0.88	0.88	0.89	0.88	0.88	0.88	1.00	0.89

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Thu Jul 28 10:02:14 2016

DAYS SINCE CAL: 0

UNIT #: 3885TC 6685

CABLE #: 6685SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.02	0.08	0.02	0.00	-0.06	-0.06	0.14	0.01	-0.14	0.27	0.04
AMP AIR	0.95	0.60	0.42	0.80	1.13	1.85	1.89	0.75	1.09	1.30	100.22

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.89	0.00	1.00

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871508

DATE/TIME PERFORMED: Mon Jul 25 09:27:32 2016

UNIT #: 3885TC 6685

CALB JIG #: 4702NK BA-905

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	54.76	202.27	147.5	1.017	55.68	205.68	150

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH108535/CBL-tdg

A3 CABLEHEAD

18.85'

RADIAL BOND TOOL

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

NEAR RCVR 11.17'

FAR RCVR 10.21'

RAL GR/TEMP/CCL/CHV DETECTOR


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

CCL 5.79'

GR 1.67'

TEMP 0.17'

TOTAL LENGTH: 18.85'
 TOTAL WEIGHT: 213 lbs
 MAX DIAMETER: 0'2.75"

	COMPANY <u>TERRA ENERGY PARTNERS LLC</u> WELL <u>FEDERAL GM 432-9</u> FIELD <u>GRAND VALLEY</u> COUNTY <u>GARFIELD</u> STATE <u>CO</u>	FILE NO: <u>CH108535</u> API NO: <u>05045225350000</u>
	LOCATION: SHL: 650' FNL & 574' FWL BHL: 1960' FNL & 1535' FEL	ELEVATIONS: KB 6110 FT DF GL 6086 FT
	SEC <u>9</u> TWP <u>7S</u> RGE <u>96W</u>	DATE <u>28-Jul-2016</u>
		9 7S 96W MV 16-9 PAD H&P 318 RIG