



FILE NO:	COMPANY
CH108538	TERRA ENERGY PARTNERS LLC
API NO:	WELL
05045225360000	FEDERAL GM 532-9
	FIELD
	GRAND VALLEY
	COUNTY
	GARFIELD
	STATE
	COLORADO

Version	LOCATION:	OTHER SERVICES
SEC.9 T.7S R.96W	SHL: 656 FNL & 570' FWL	RPM
PAD: MV 16-9	BHL: 2273 FNL & 1641' FEL	
RIG: H&P 318	SEC 9	TWP 7S
		RGE 96W

PERMANENT DATUM	G.L.	ELEVATION	6086 FT
LOG MEASURED FROM	K.B.	24 FT	ABOVE P.D.
DRILL. MEAS. FROM	K.B.		
		KB	ELEVATIONS:
		DF	6110 FT
		GL	6087 FT

DATE	29-Jul-2016	
RUN	TRIP	1
SERVICE ORDER	US108538J	
DEPTH DRILLER	7936 FT	
DEPTH LOGGER	7816 FT	
BOTTOM LOGGED INTERVAL	7815 FT	
TOP LOGGED INTERVAL	0 FT	
TIME STARTED	09:30	
TIME FINISHED	11:30	
OPERATOR RIG TIME	2 HOURS	
TYPE OF FLUID IN HOLE	WATER	
FLUID DENSITY	NA	
FLUID SALINITY	NA	
FLUID LEVEL	45 FT	
LOGGED CEMENT TOP	SEE LOG	
WELLHEAD PRESSURE	0 PSI	
MAXIMUM HOLE DEVIATION	NA	
NOMINAL LOGGING SPEED	100 F/MN	
MAX. RECORDED TEMP.	201 DEGF	
REFERENCE LOG	NA	
REFERENCE LOG DATE	NA	
EQUIP. NO.	LOCATION	
RECORDED BY	HL-6685	
WITNESSED BY	SPENCER	
	D. WELSH	
	GRAND JCT.	

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	2032 FT
8.75 IN	2032 FT	7955 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	2032 FT
4.5 IN	11.6 LB/F	E/I-80	0 FT	7955 FT

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 = +12 FEET

LOGGED WITH 0 PSI AT SURFACE

BHT = 201 DEGF
SJ = 4875' - 4898'

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 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Patches: 9

Plotted: Tue Aug 02 11:01:11 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\Users\spenjos\Documents\VDIS\Jobs\WPX\IGM532-9\CH108538\012g04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7.000 ft BOTTOM DEPTH: 7813.250 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*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW LENGTH	25	us	TOP	BOTTOM
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	170	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*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

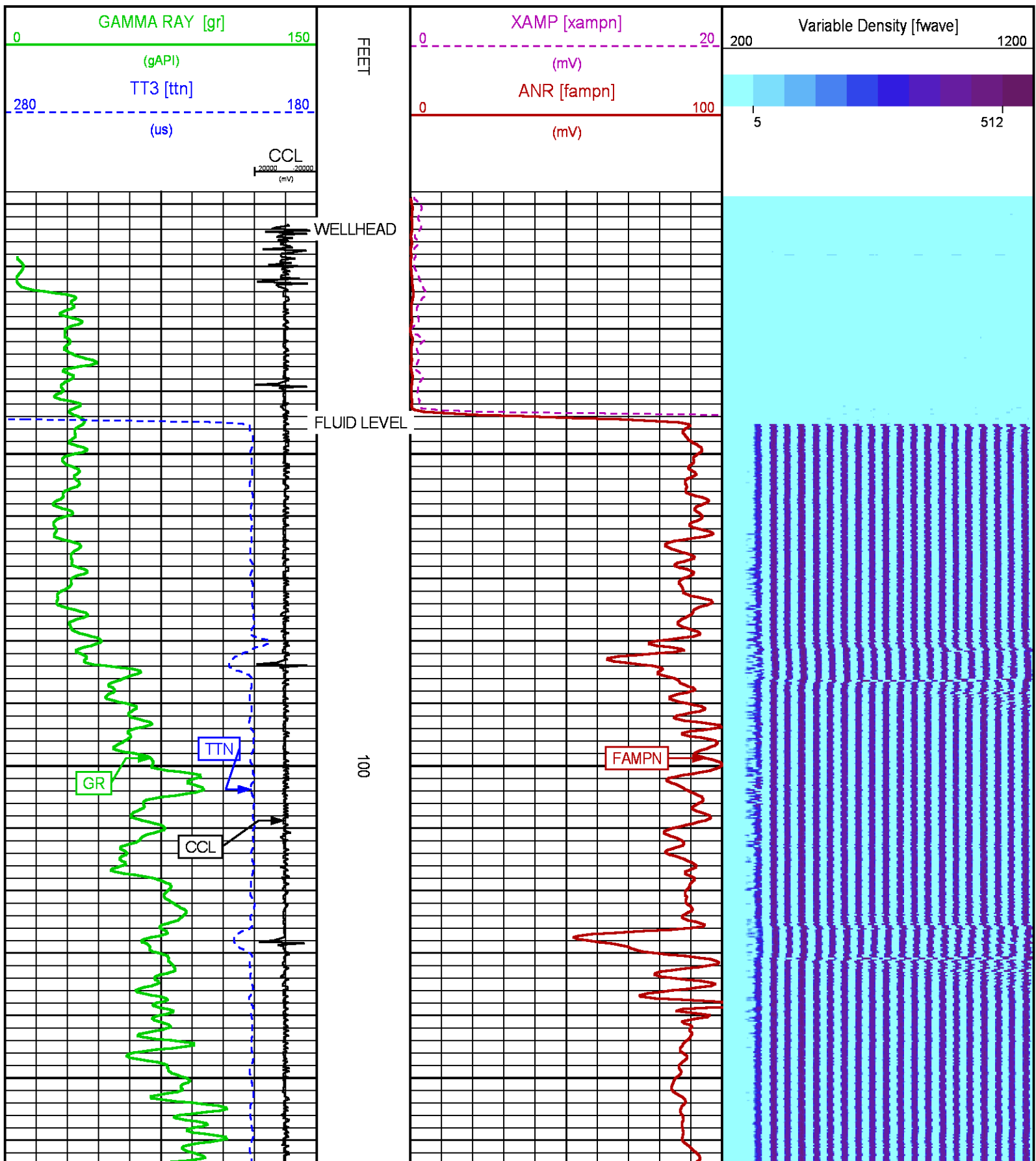
CURVE DESCRIPTION REPORT

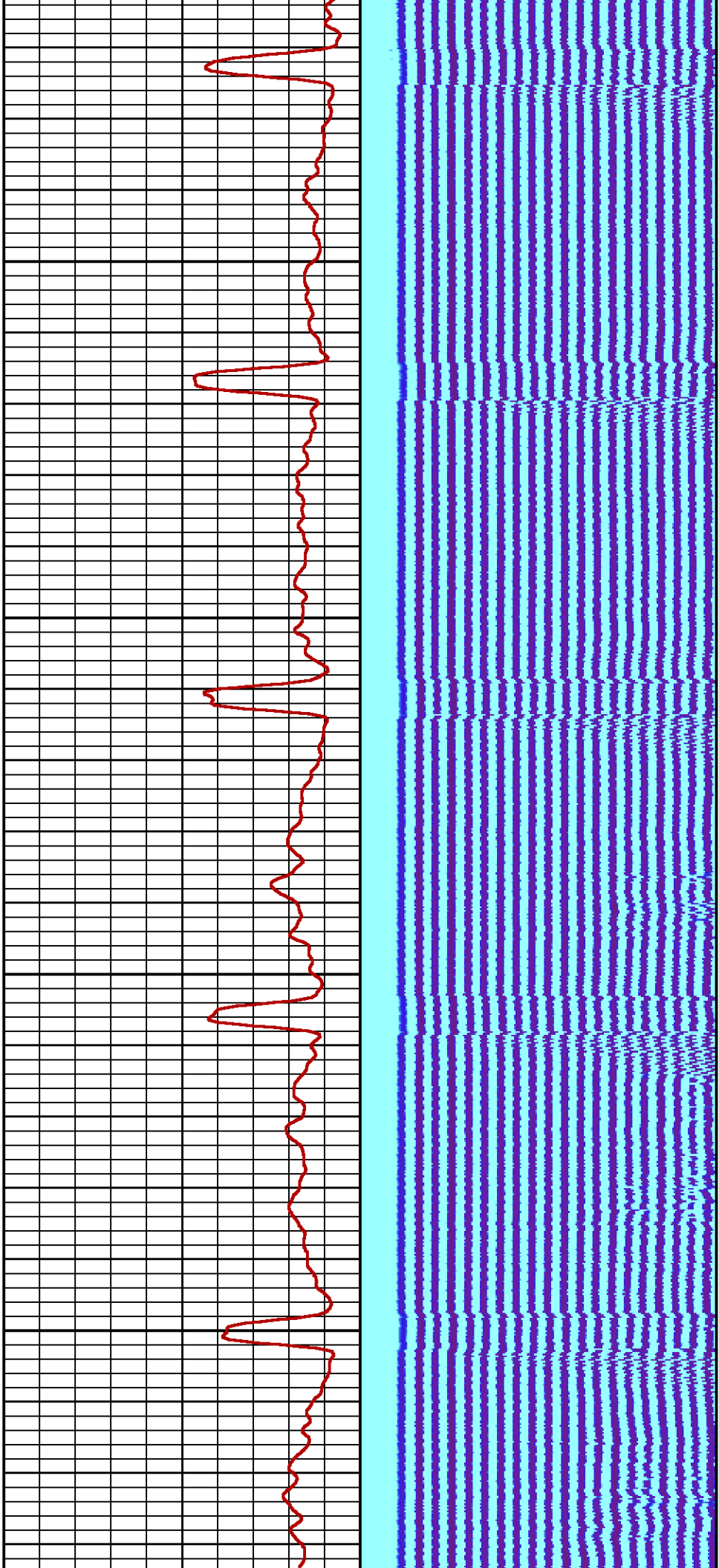
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jul 29 10:01:23 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 29 10:01:23 2016	FAR WAVE FORM
F1:GR	Jul 29 10:01:23 2016	GAMMA RAY
F1:TTN	Jul 29 10:01:23 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 29 10:01:23 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				

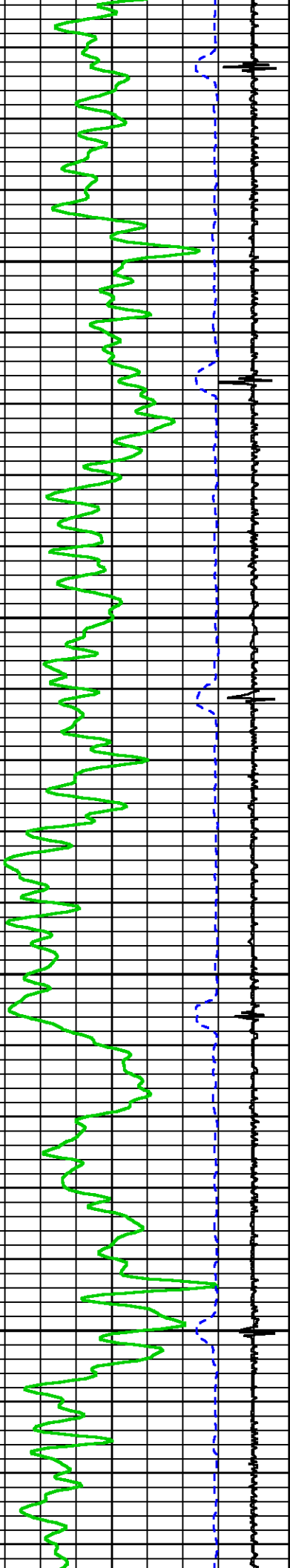
Presentation : BHI3XZN3R1:C:\Users\spenjosj\Documents\VDIS\Jobs\WPX\GM532-9\CH108538\TERRA_CBL_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 8.75 - 7824 Feet
Data File 1 : F1 : BHI3XZN3R1:C:\Users\spenjosj\Documents\VDIS\Jobs\WPX\GM532-9\CH108538\n012g04.xtf
Created On : Jul 29 10:01:23 2016
Company : TERRA ENERGY PARTNERS LLC
Well : FEDERAL GM 532-9
Field : GRAND VALLEY
File Interval : 7.75 - 7825.25 Feet
OCT : n012g

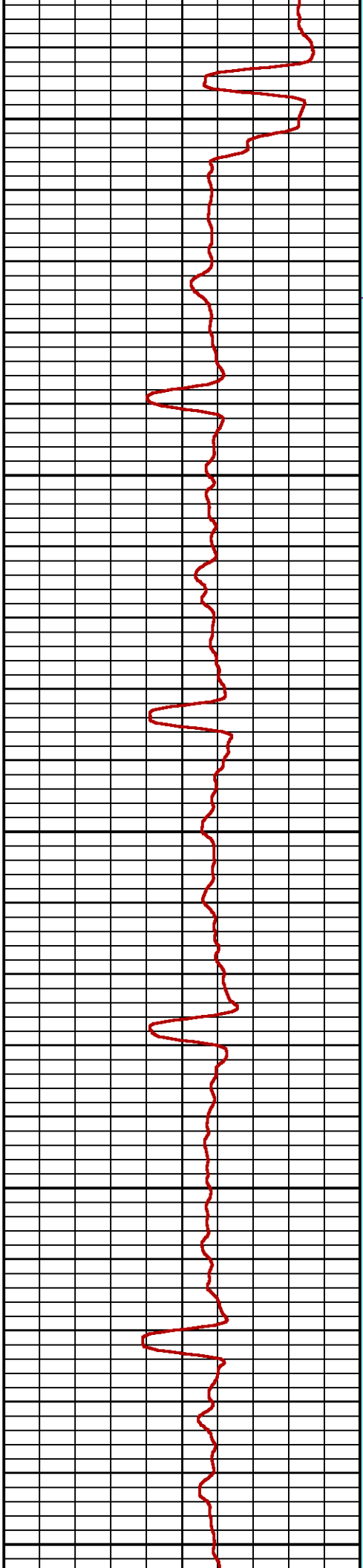
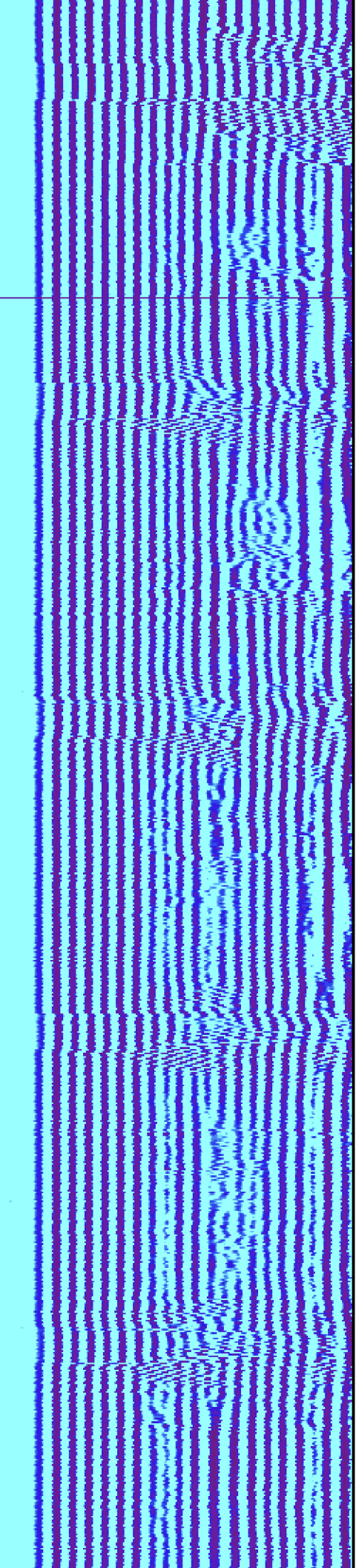




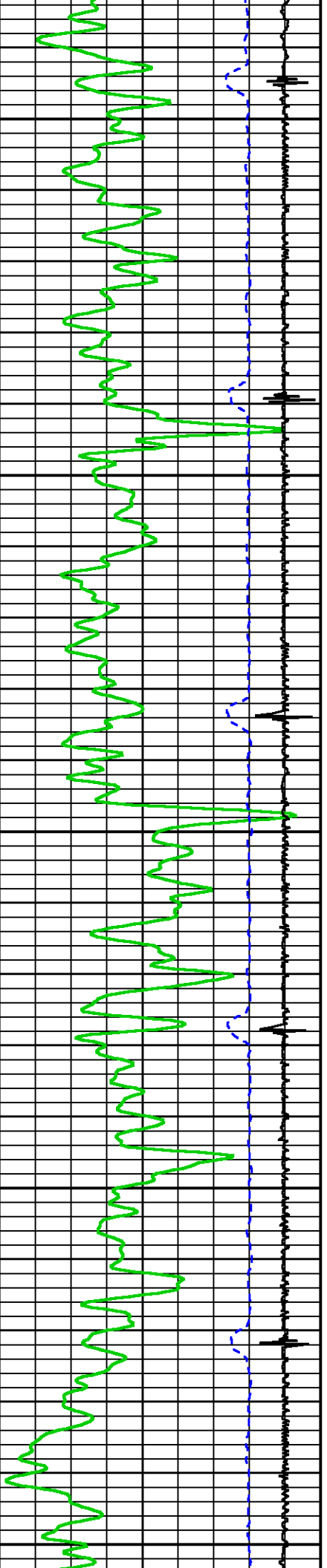
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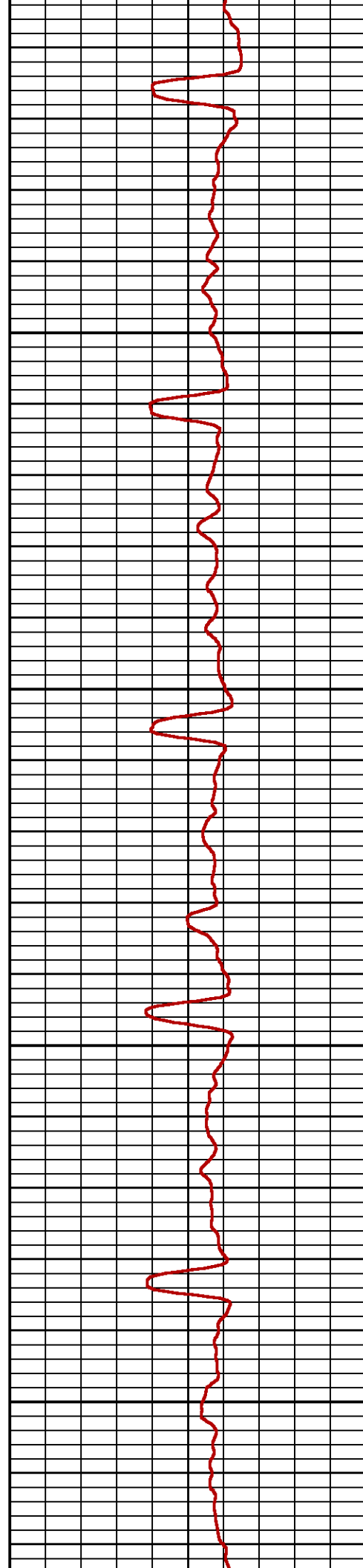
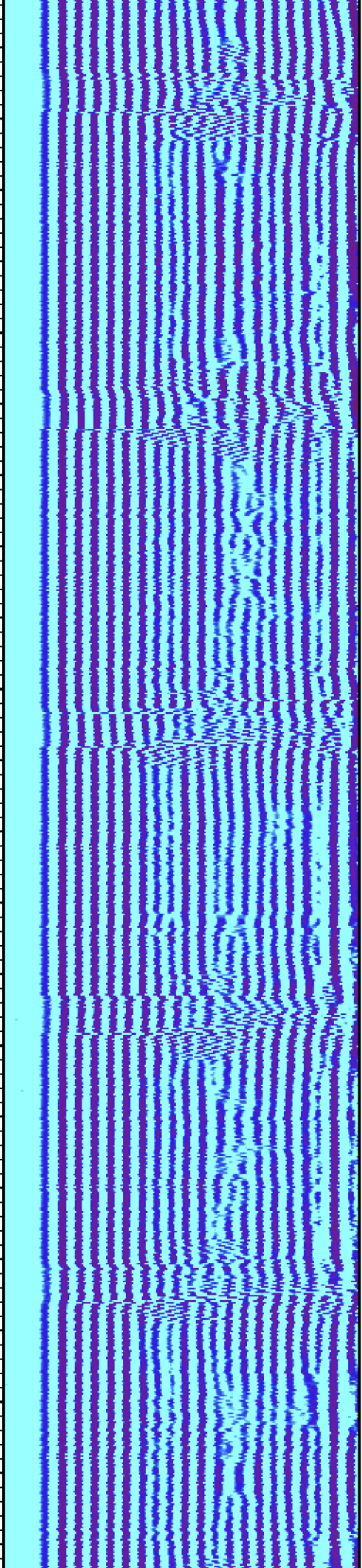
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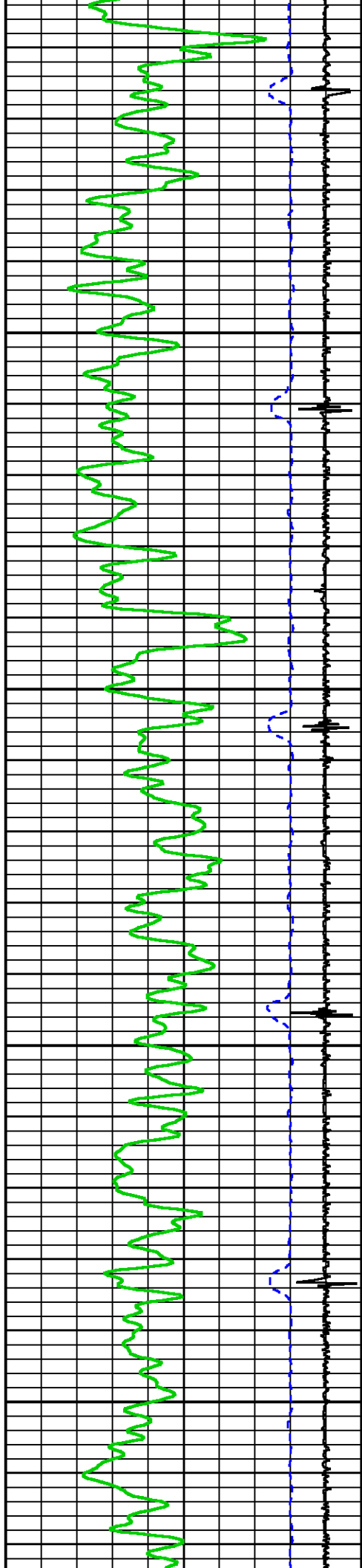
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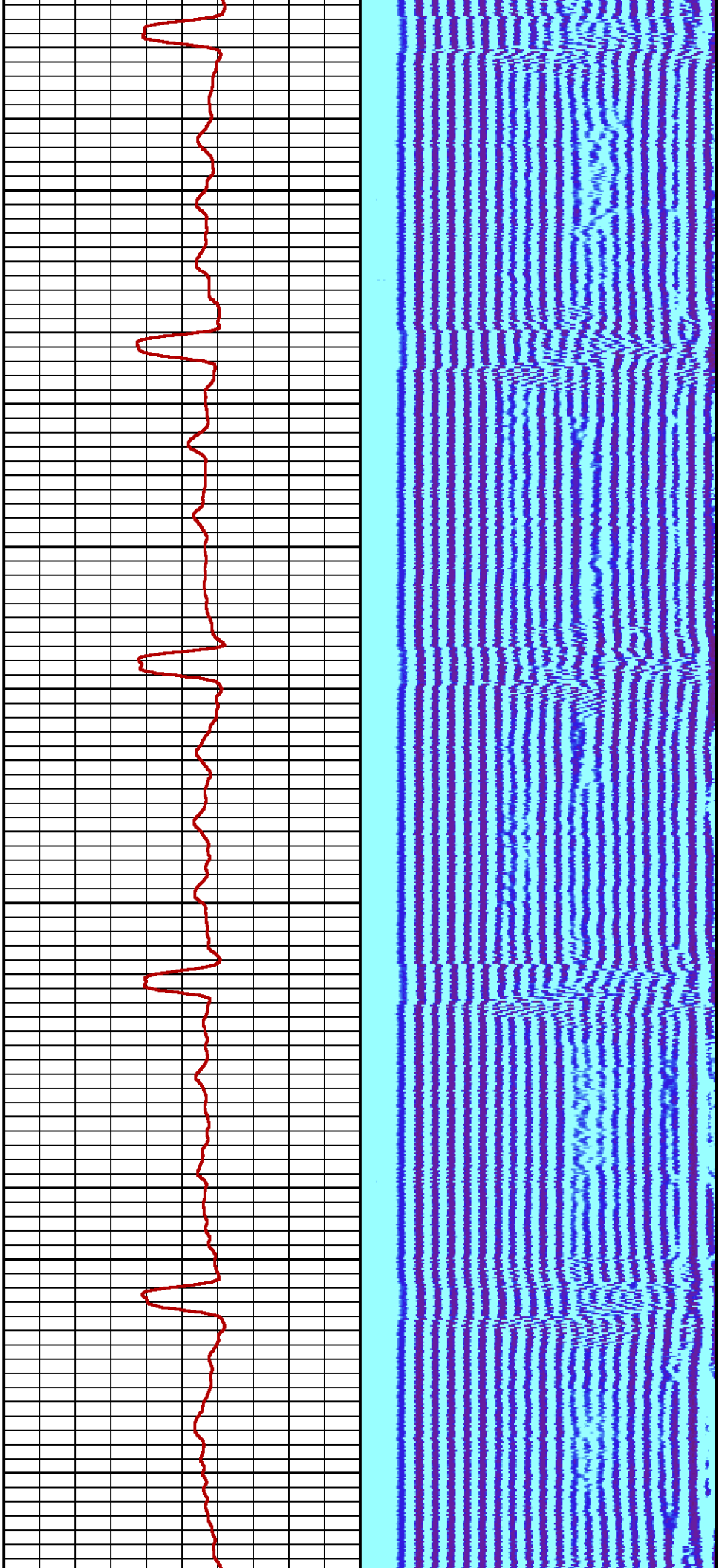




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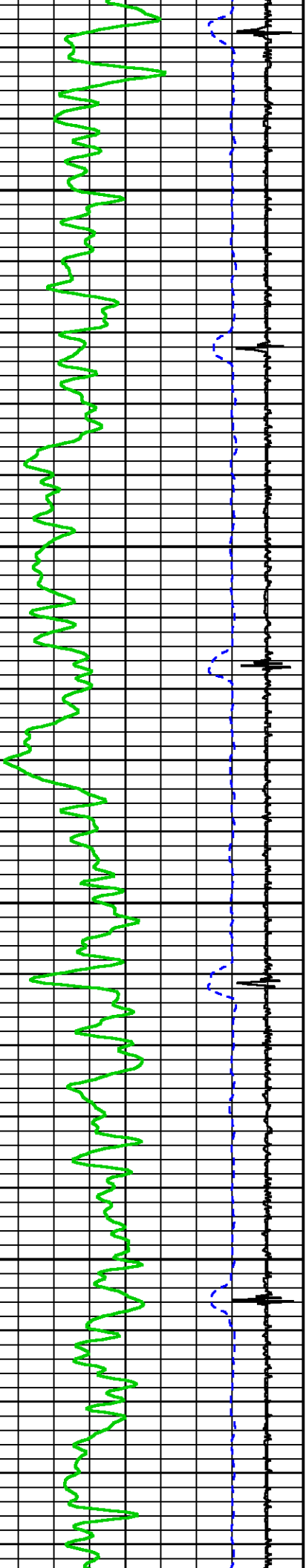
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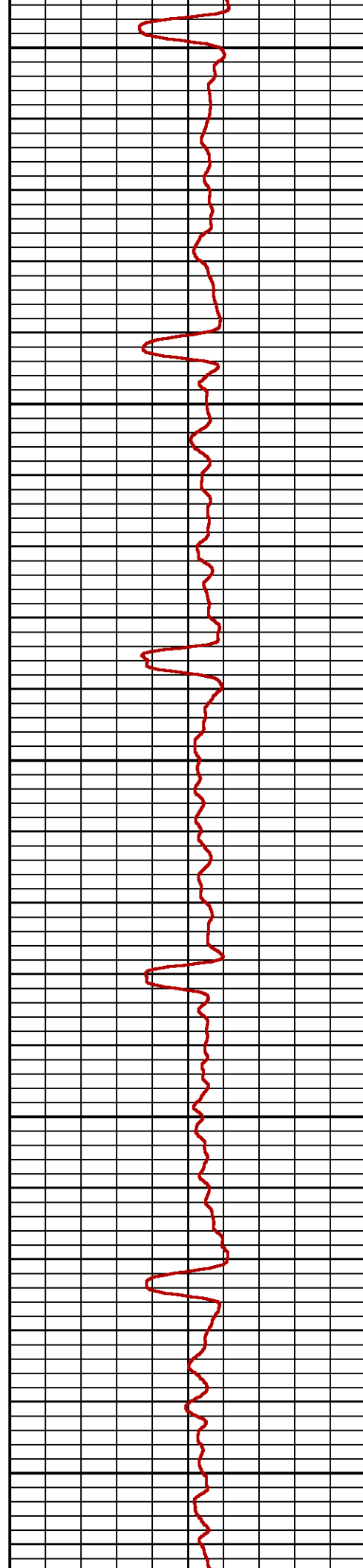
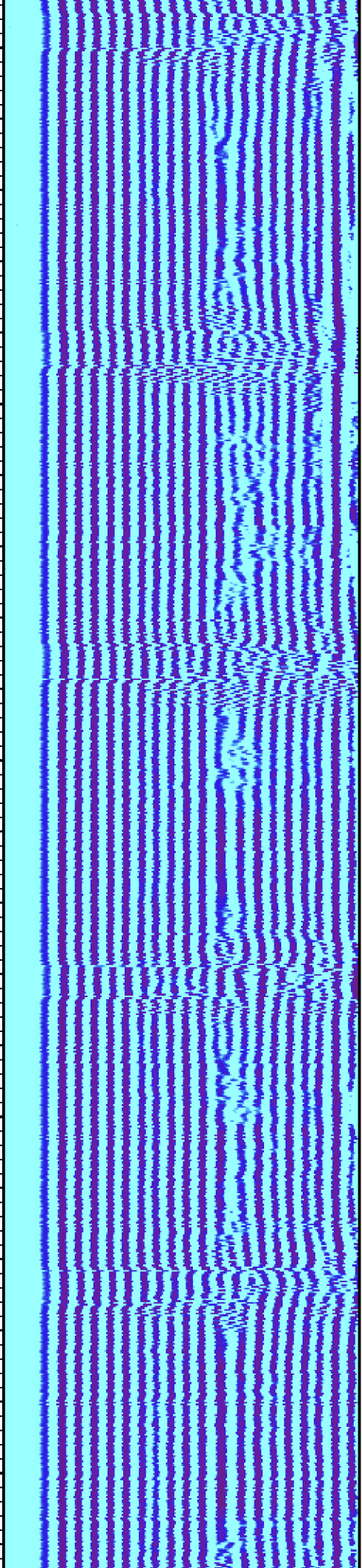




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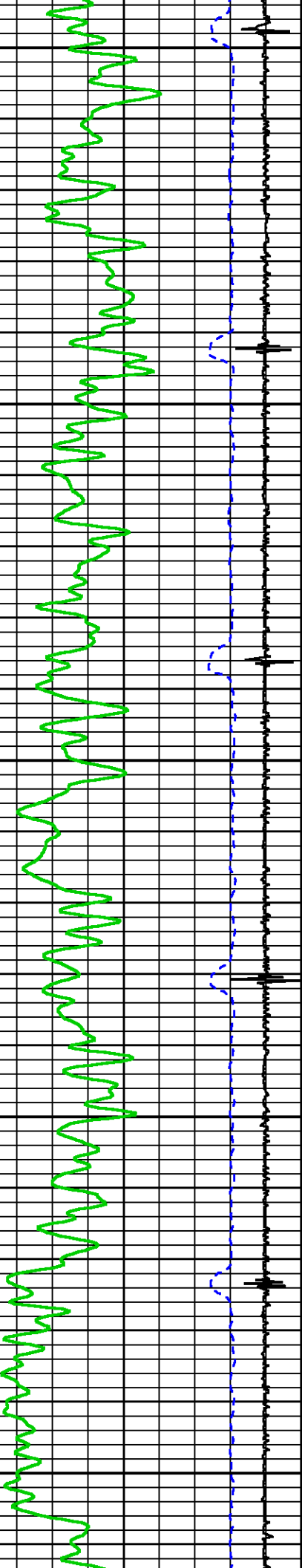
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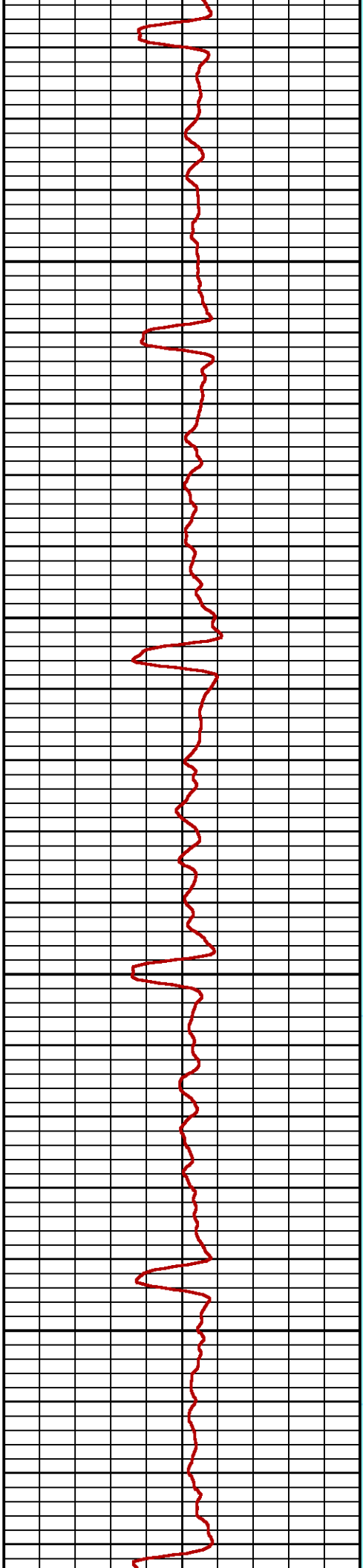
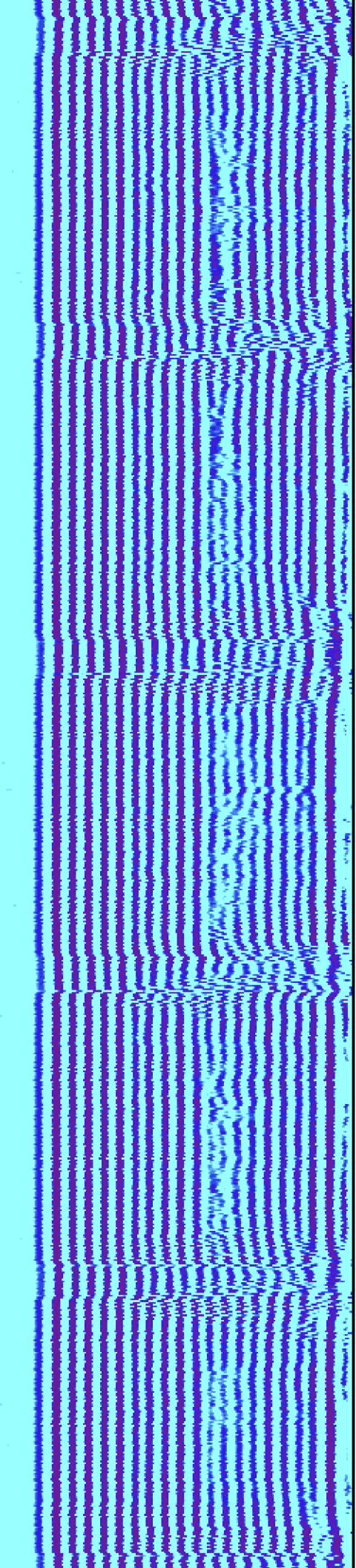




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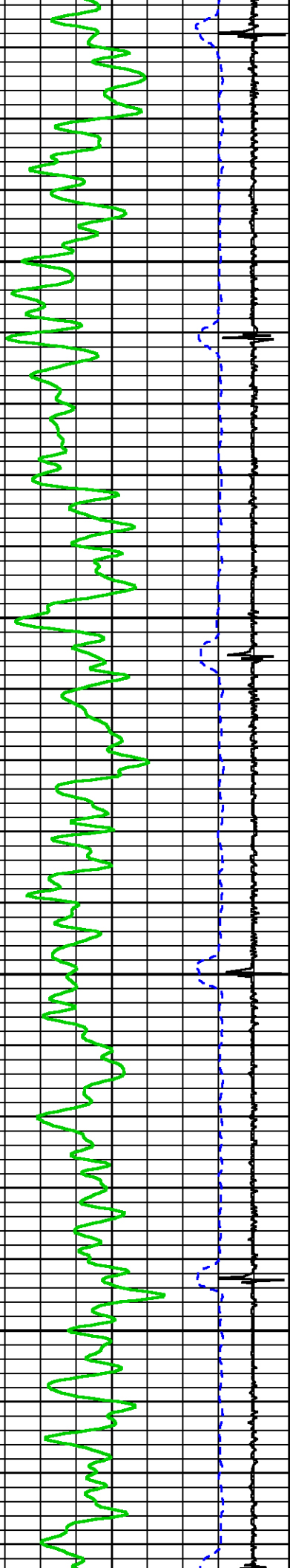
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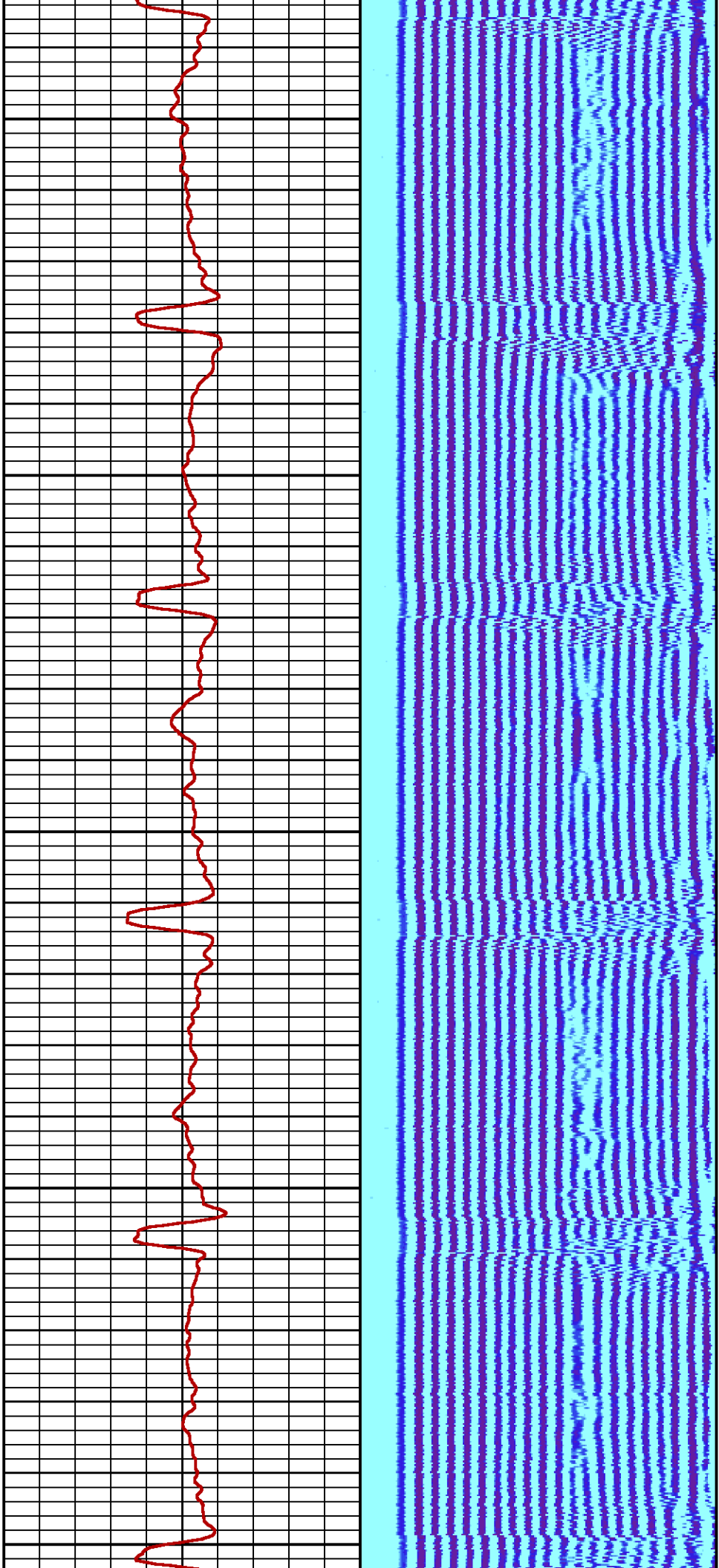




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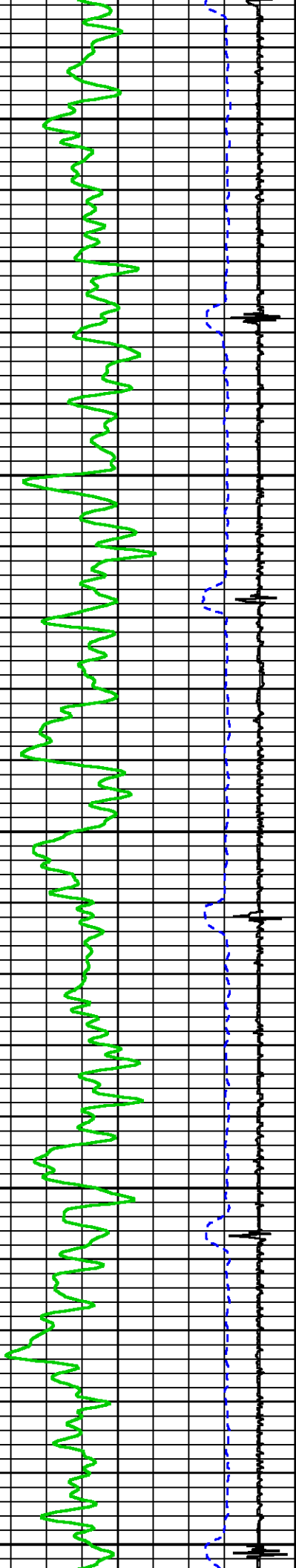


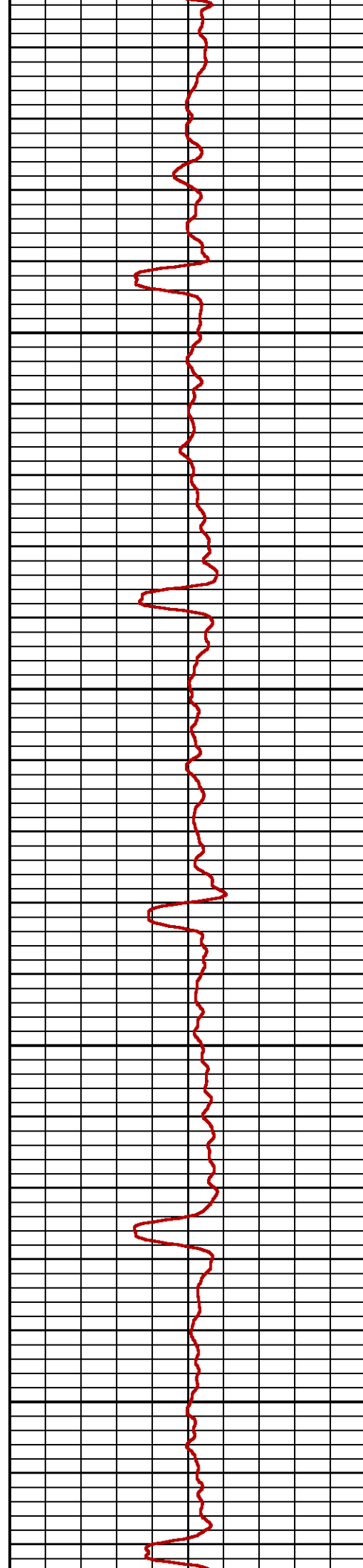
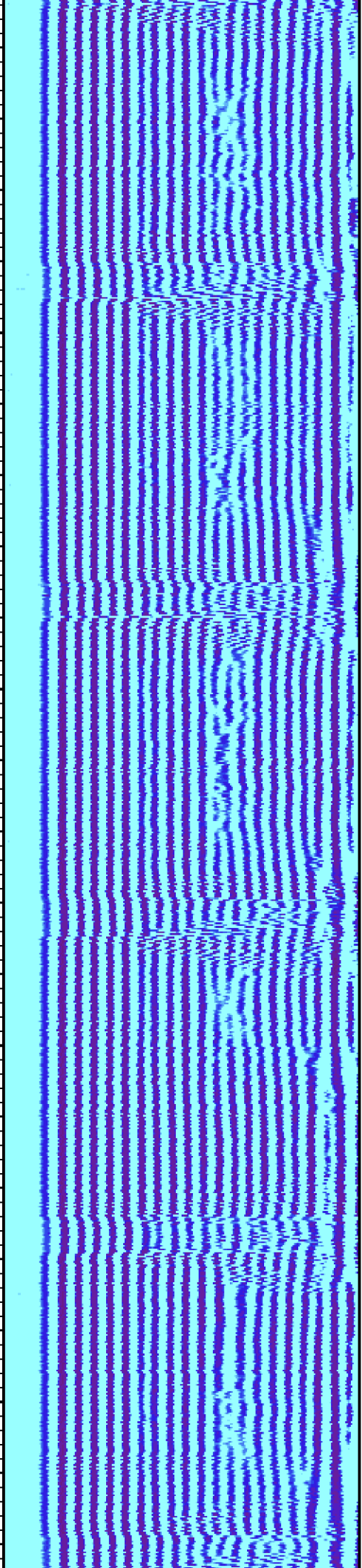


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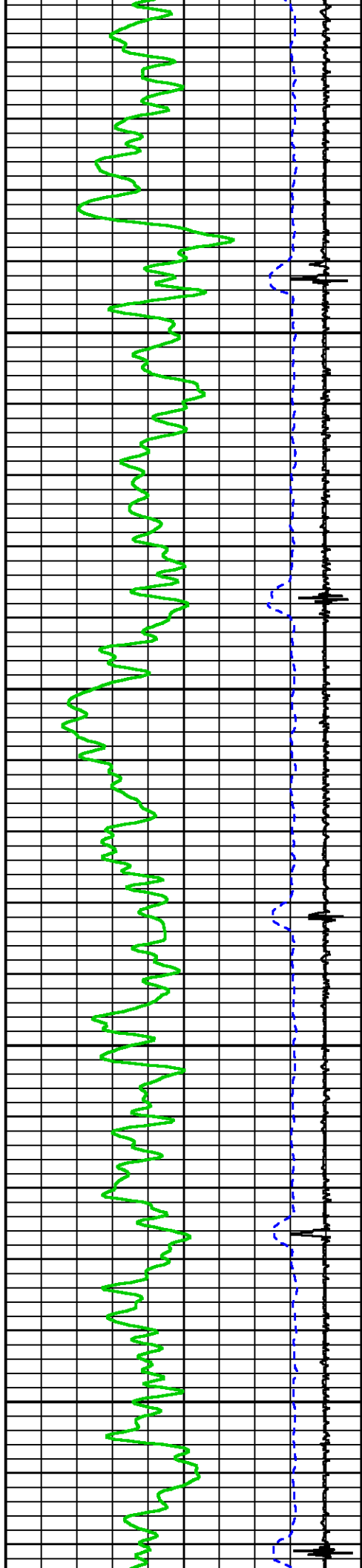
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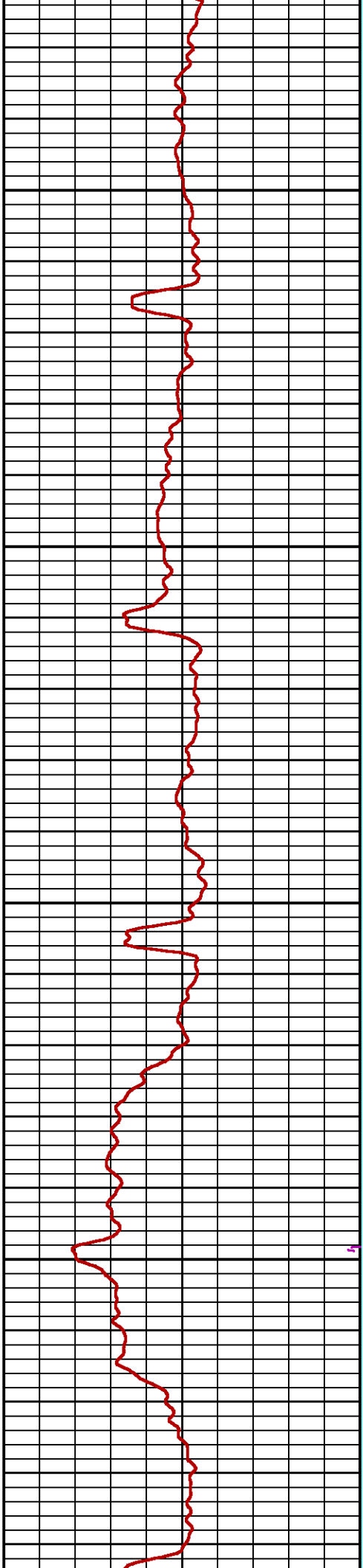
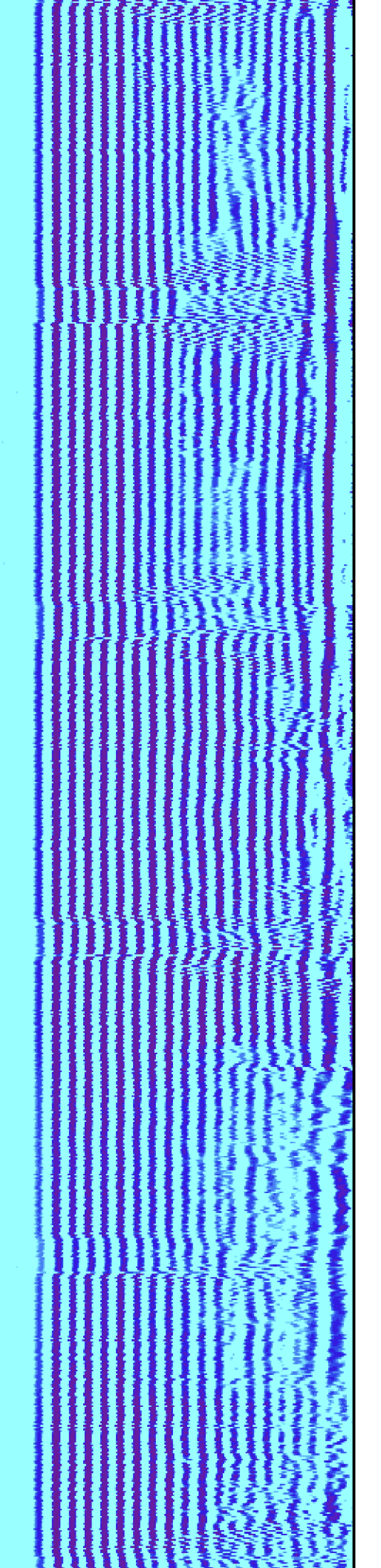




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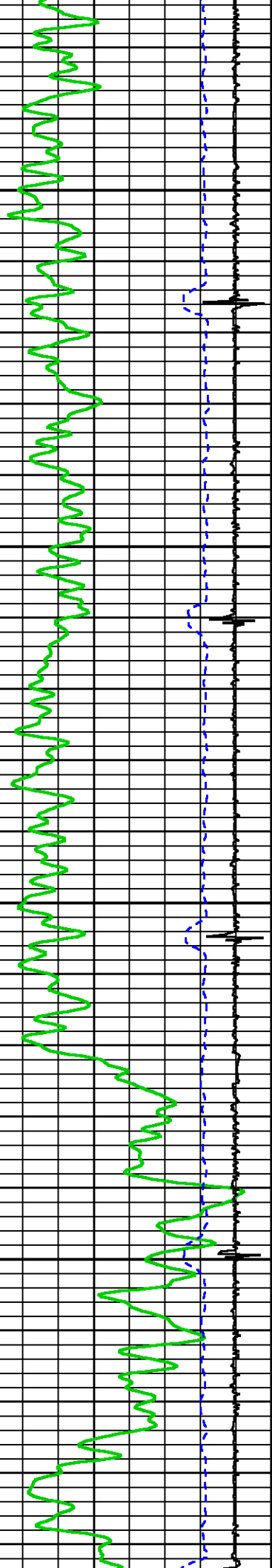
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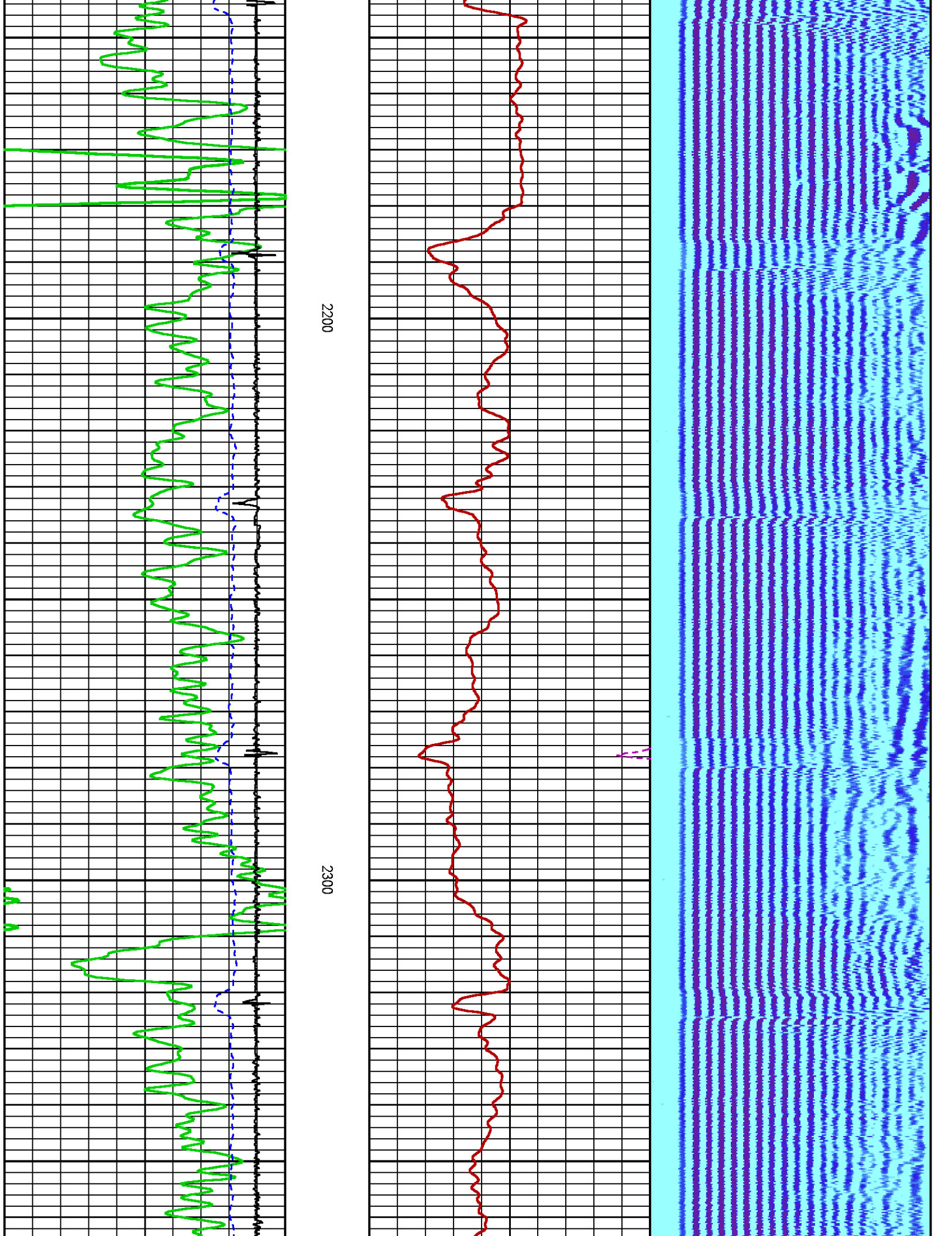


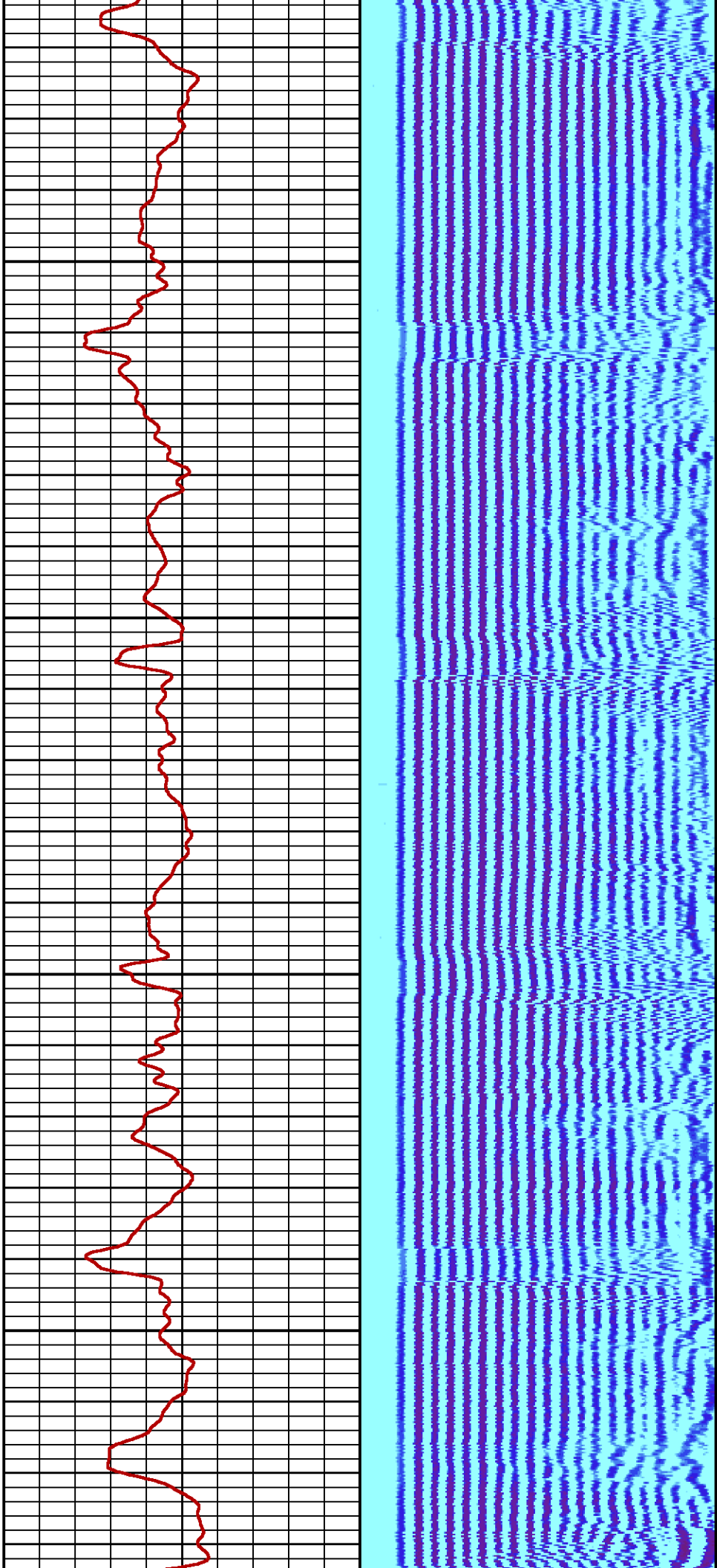


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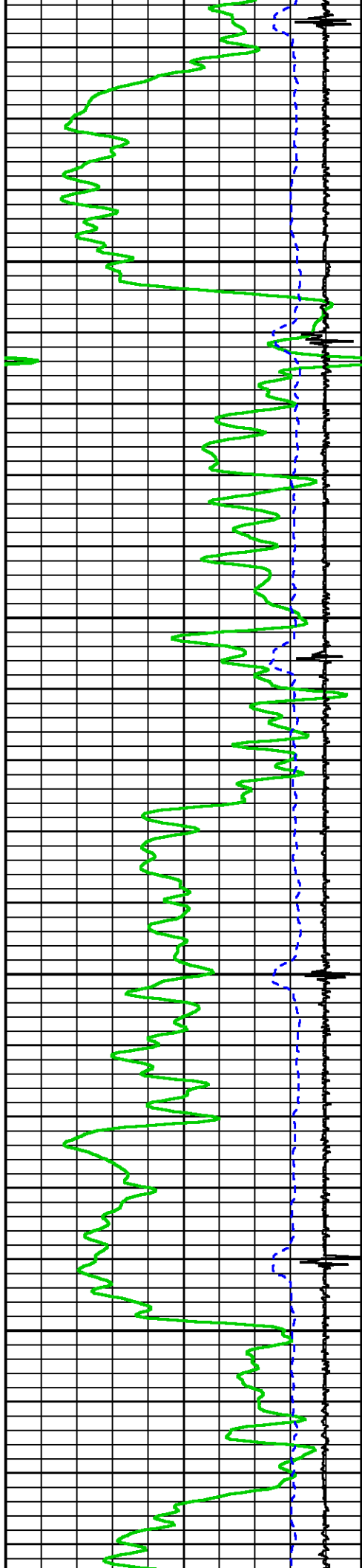


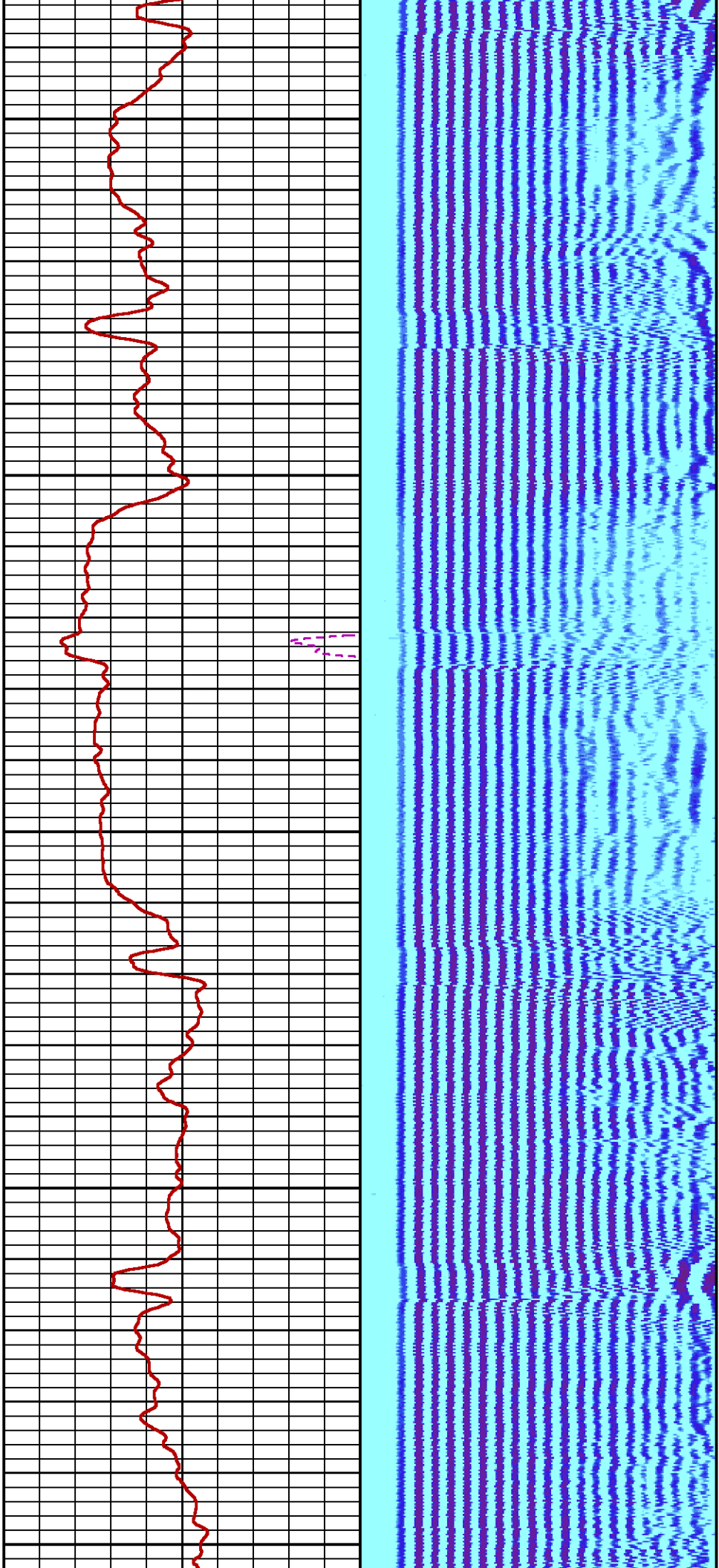




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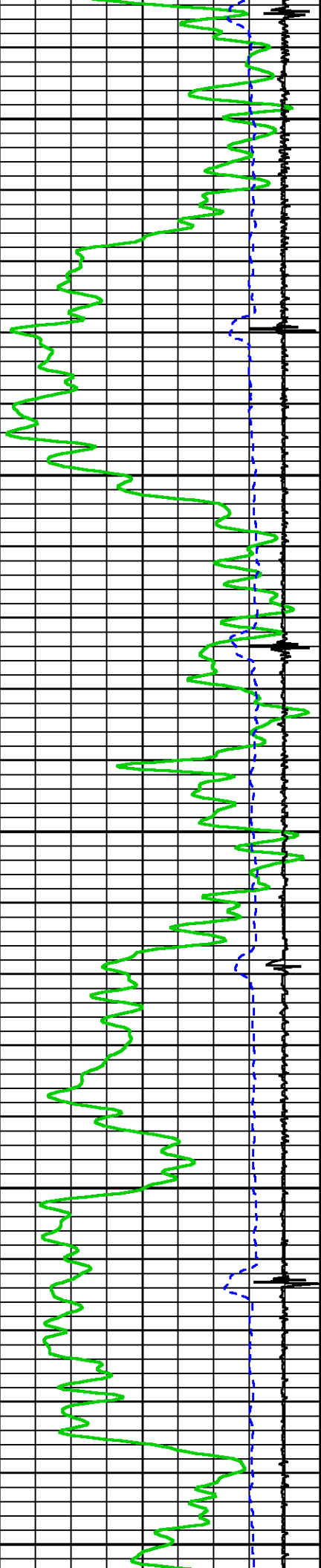


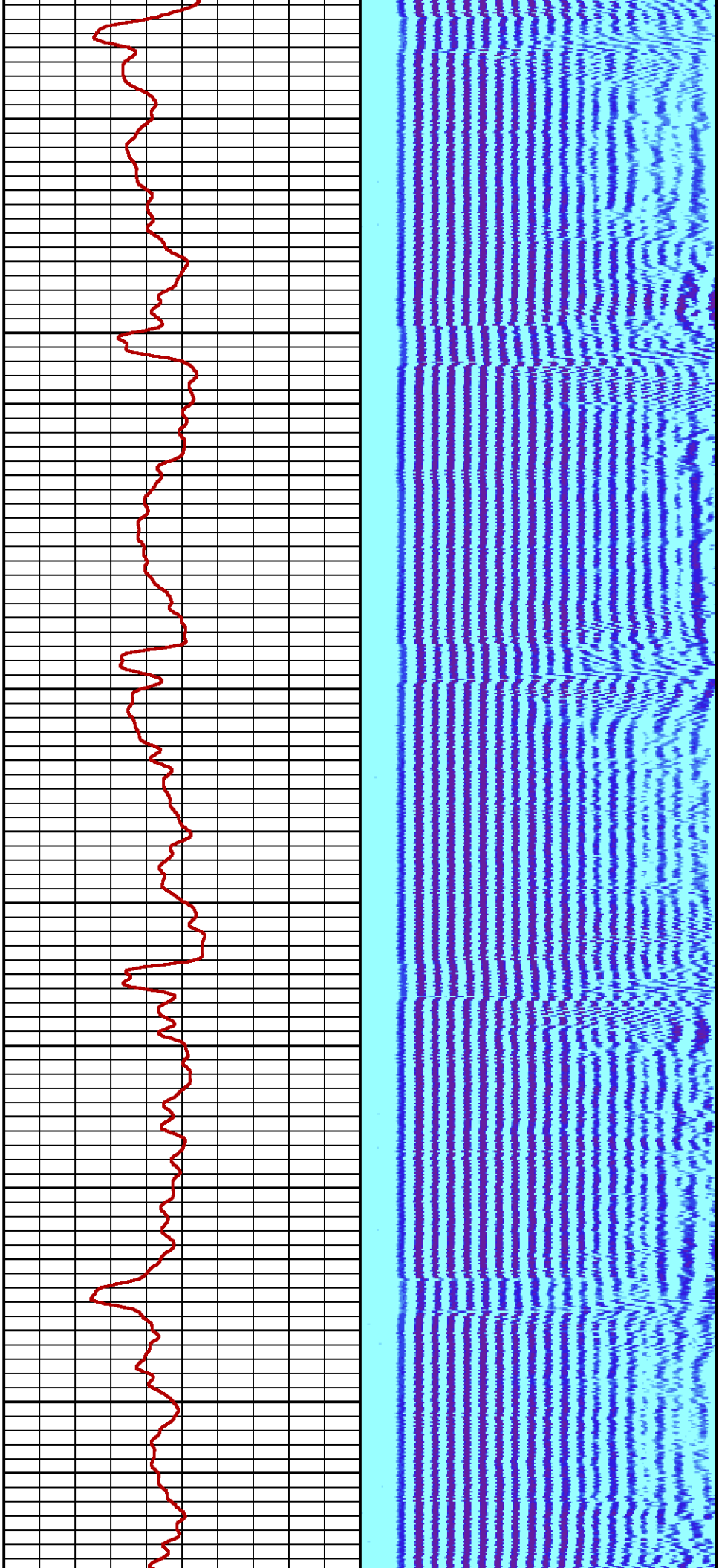


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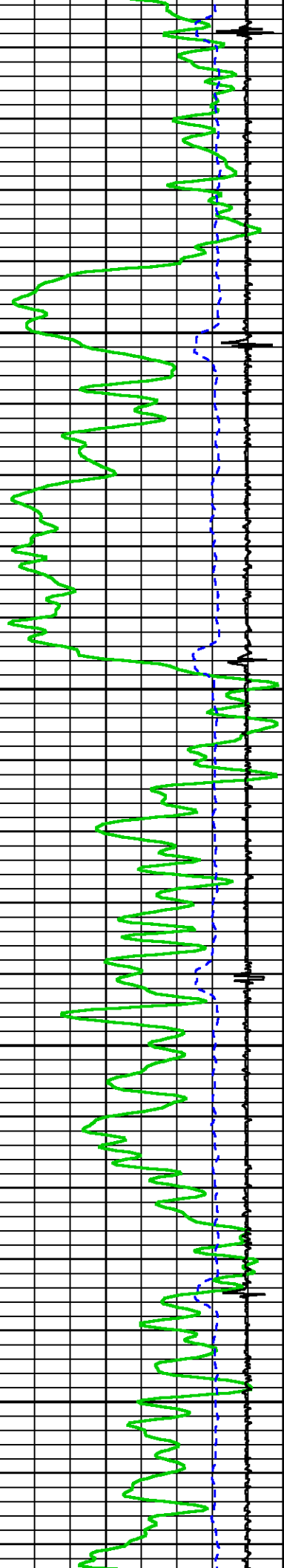
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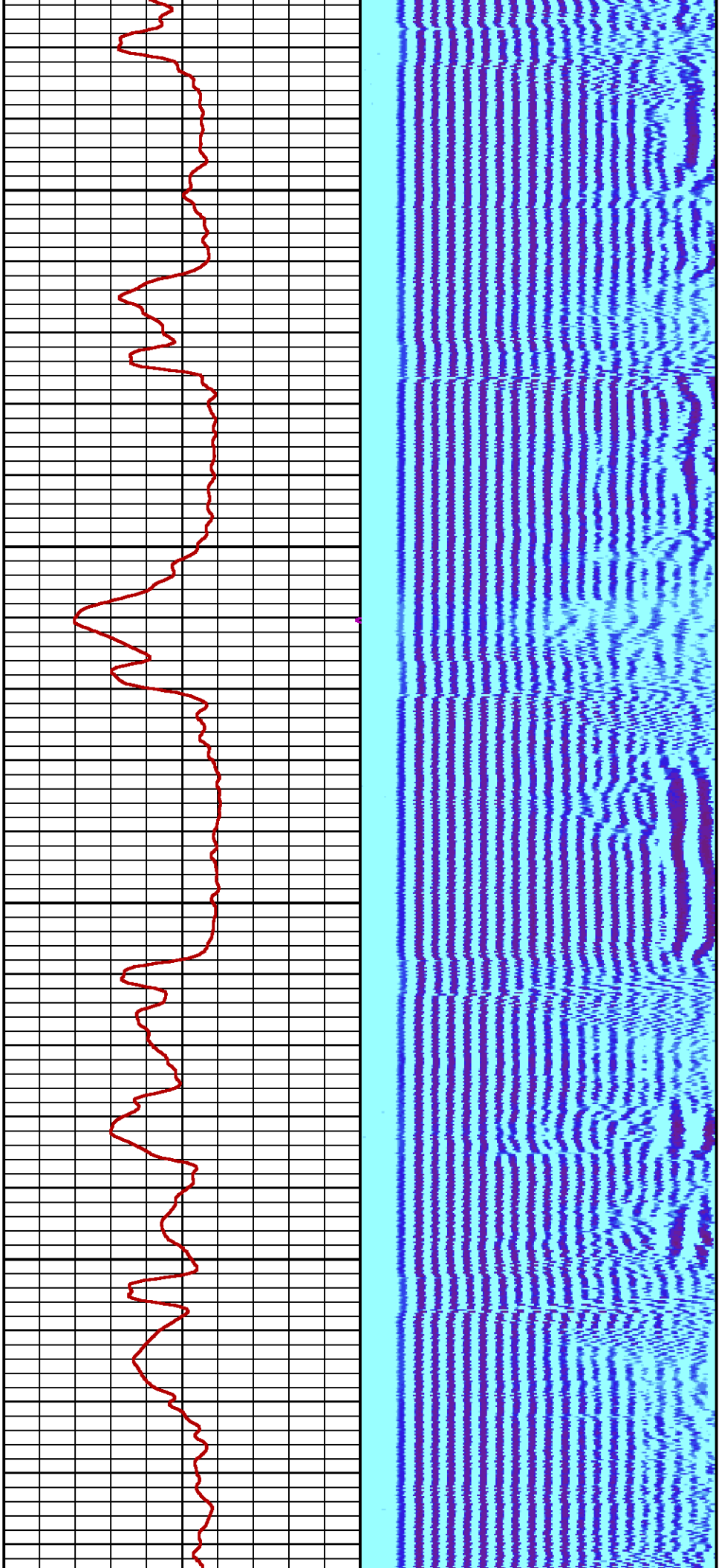




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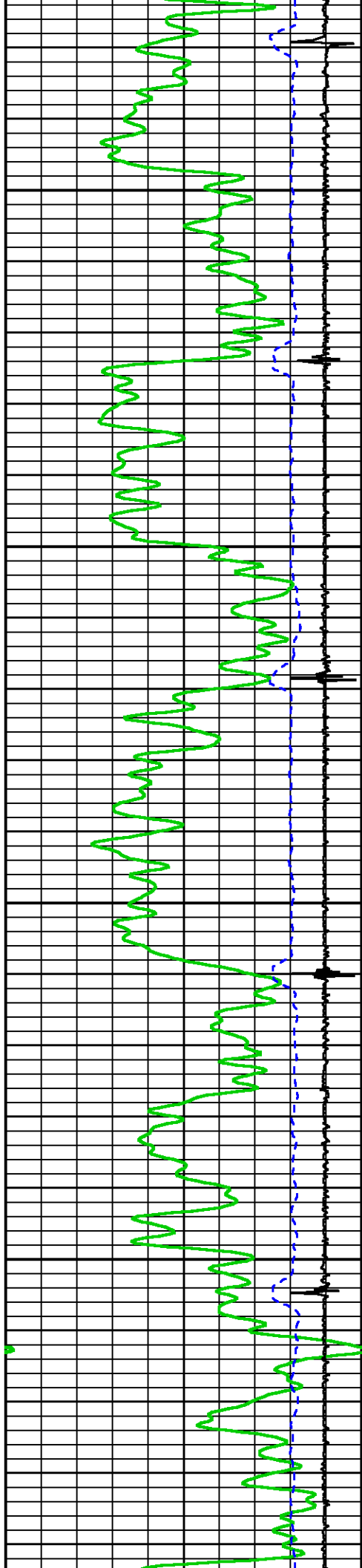
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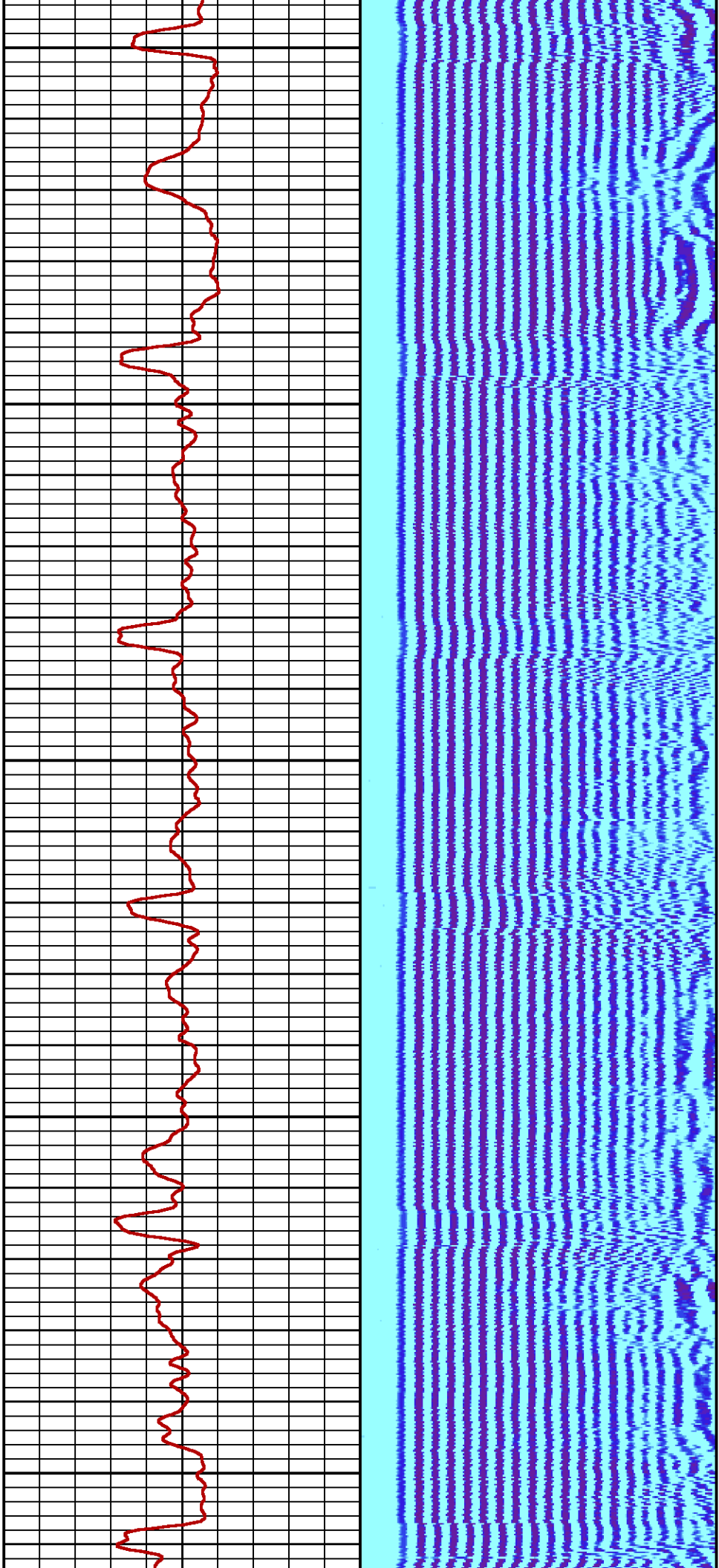




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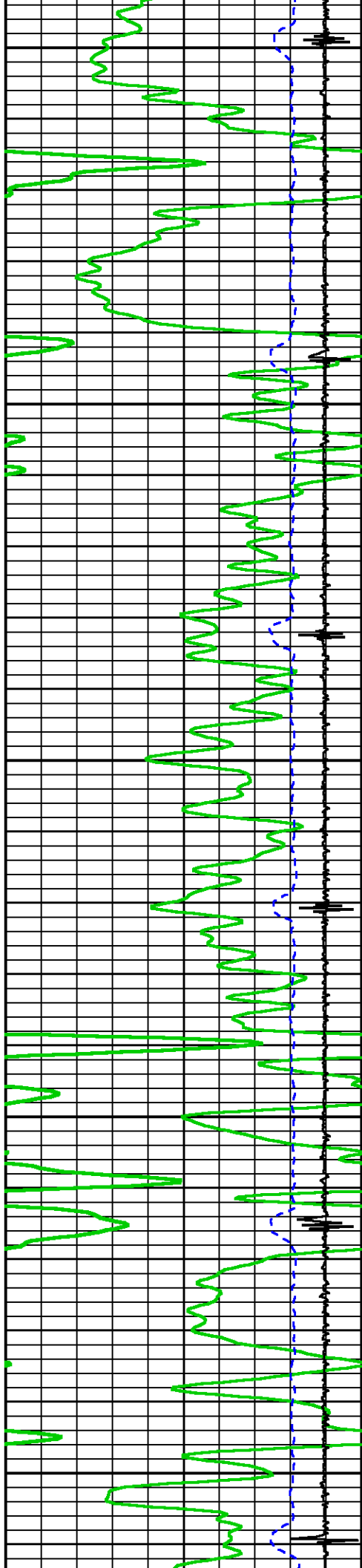
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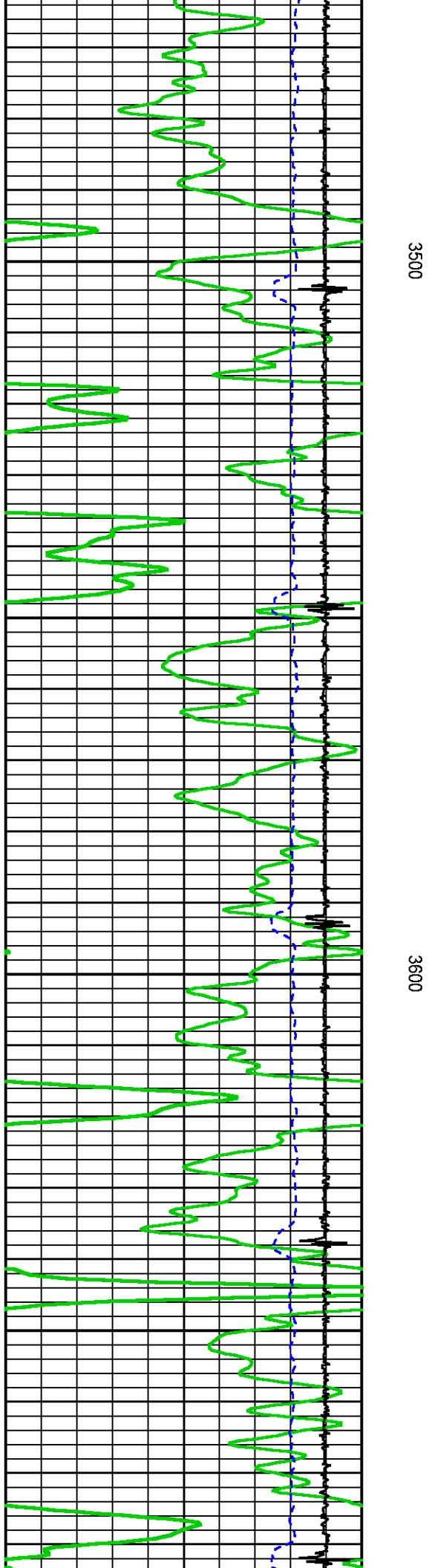
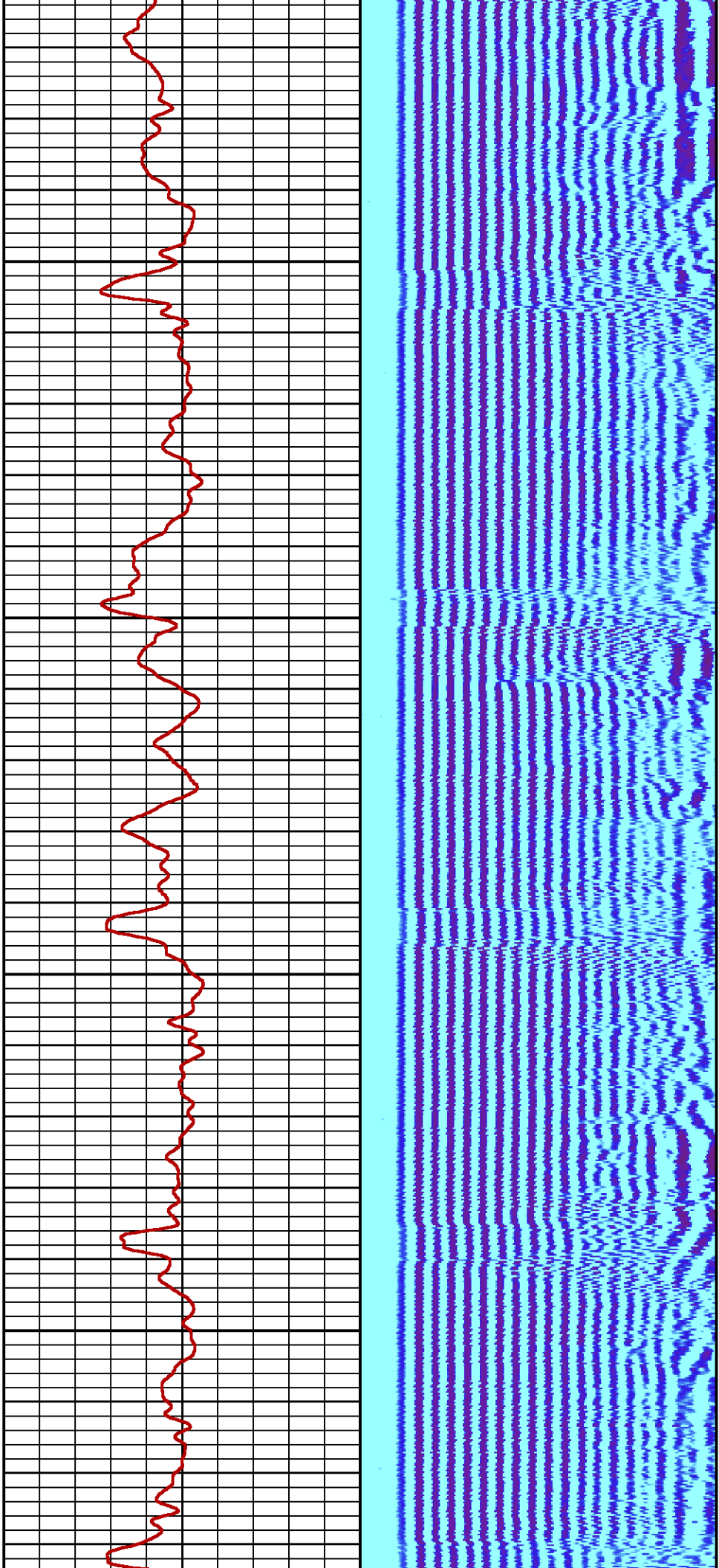


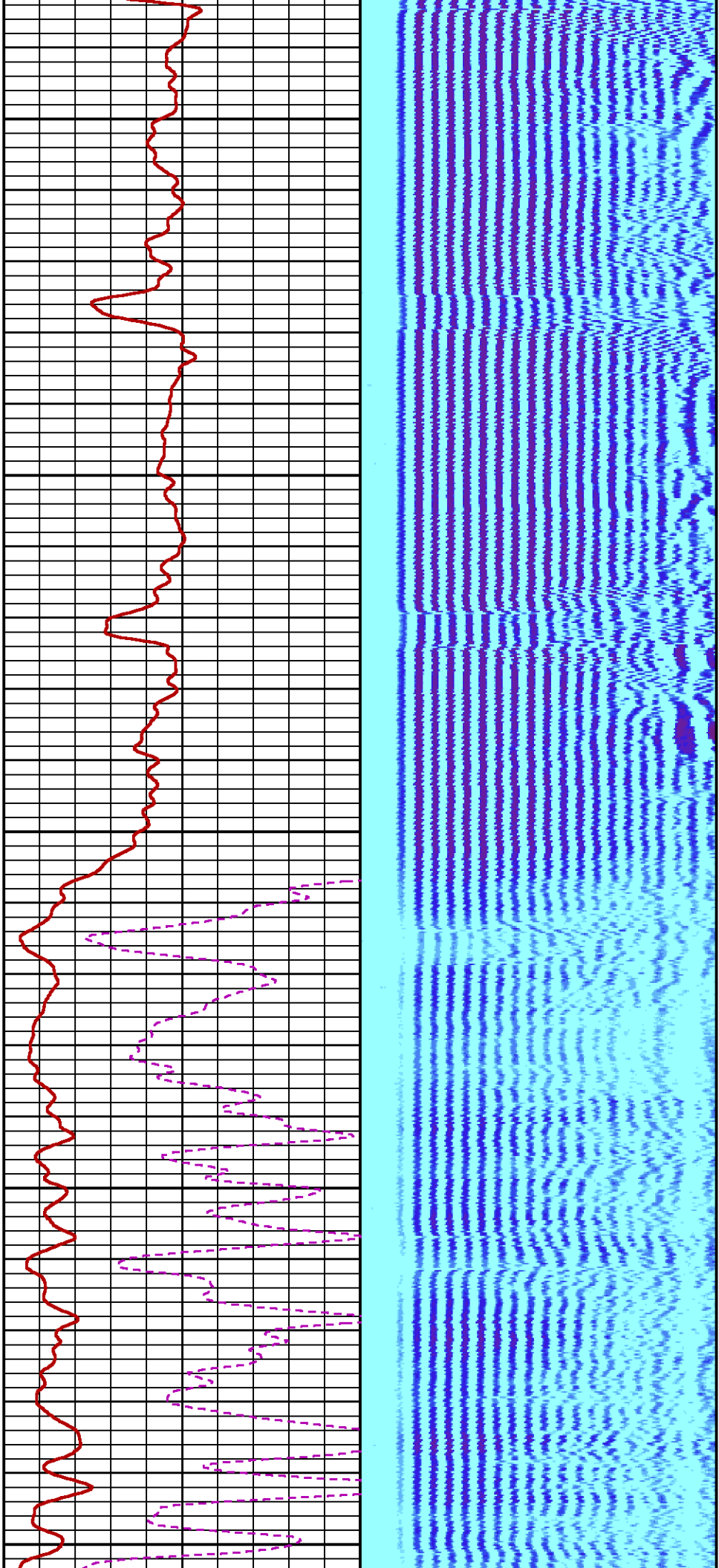


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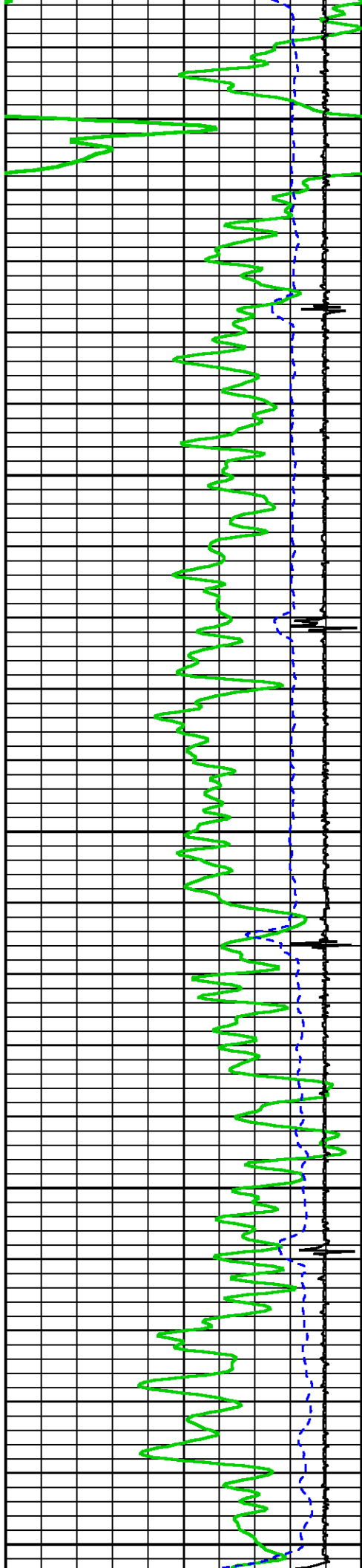


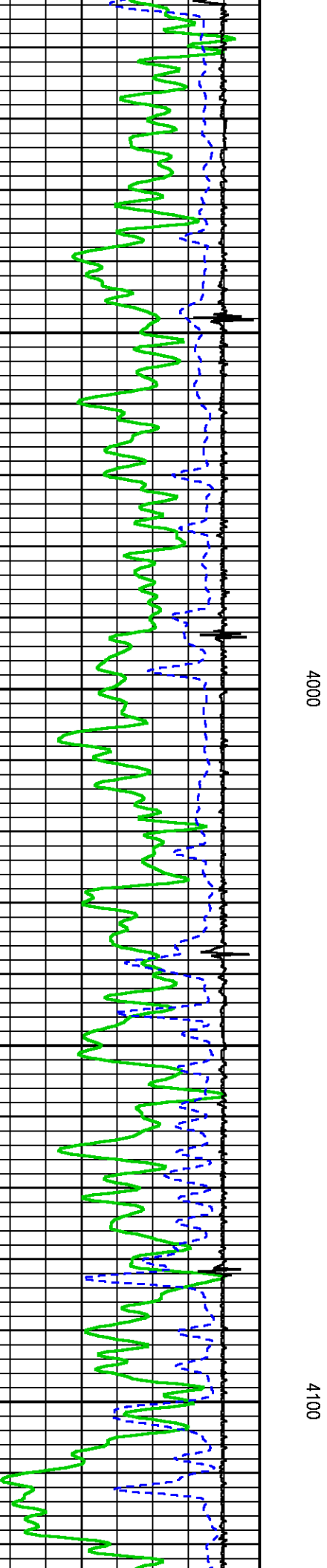
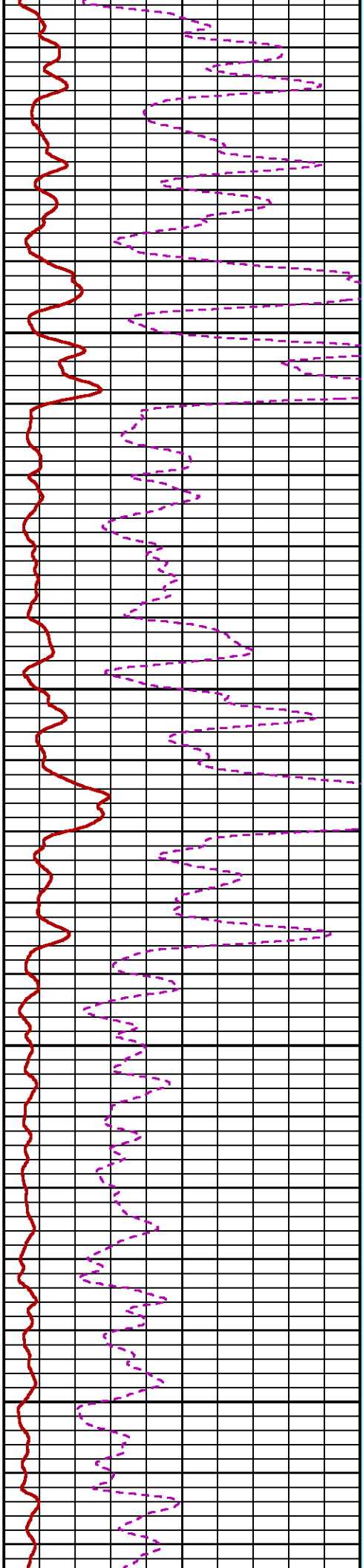
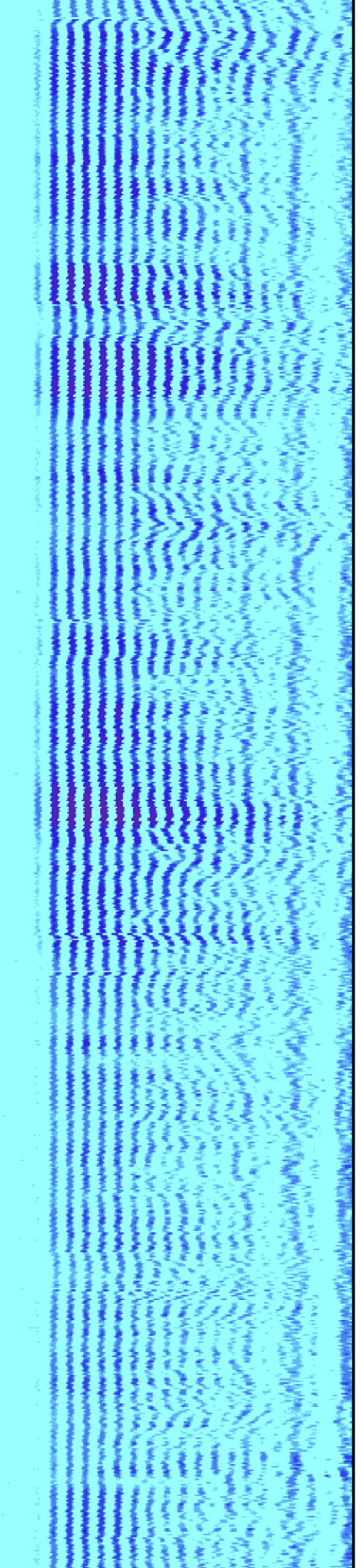


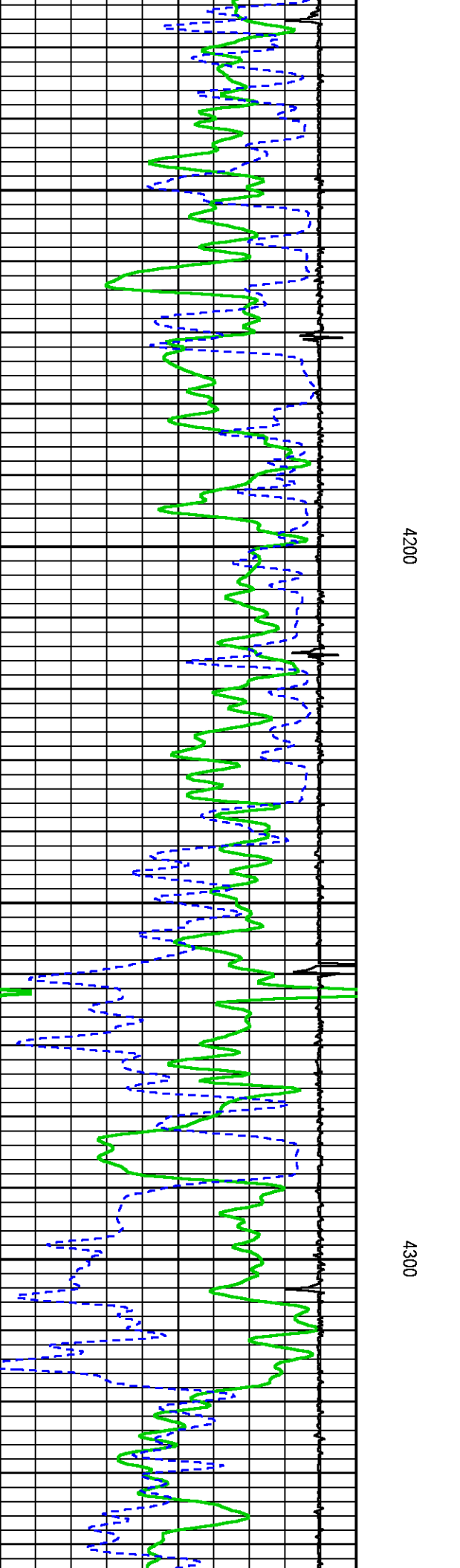
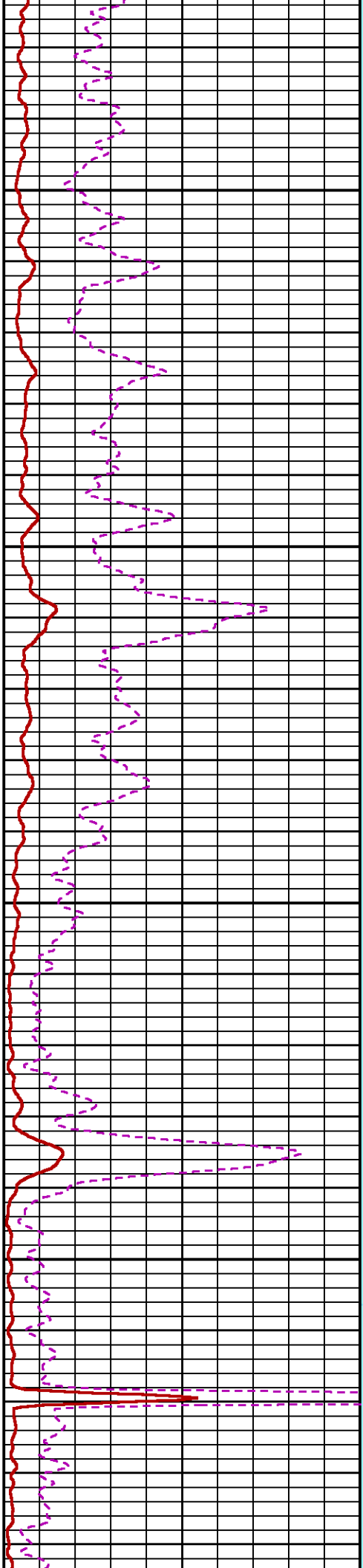
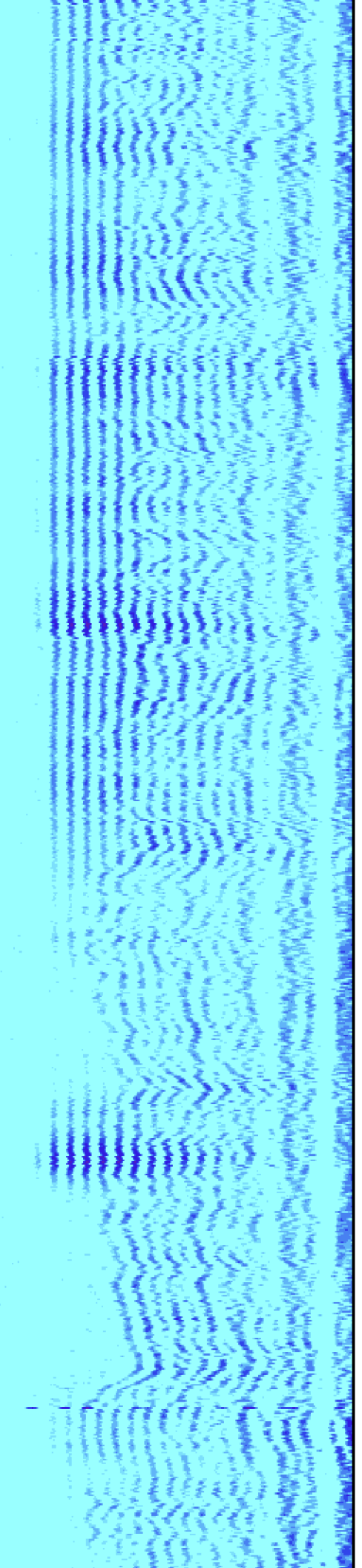
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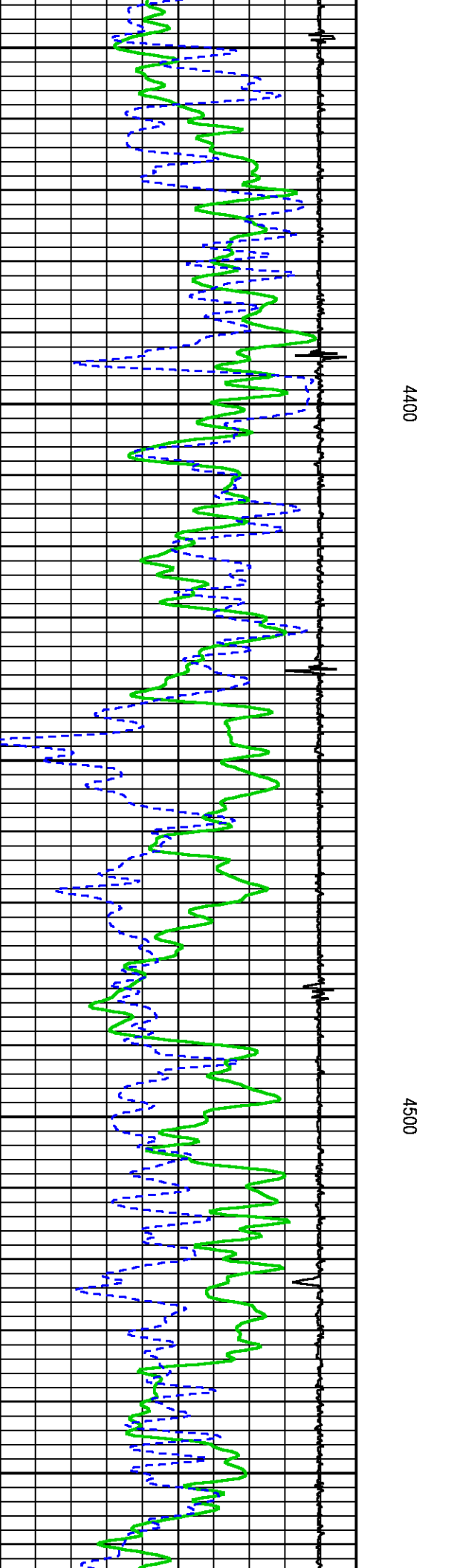
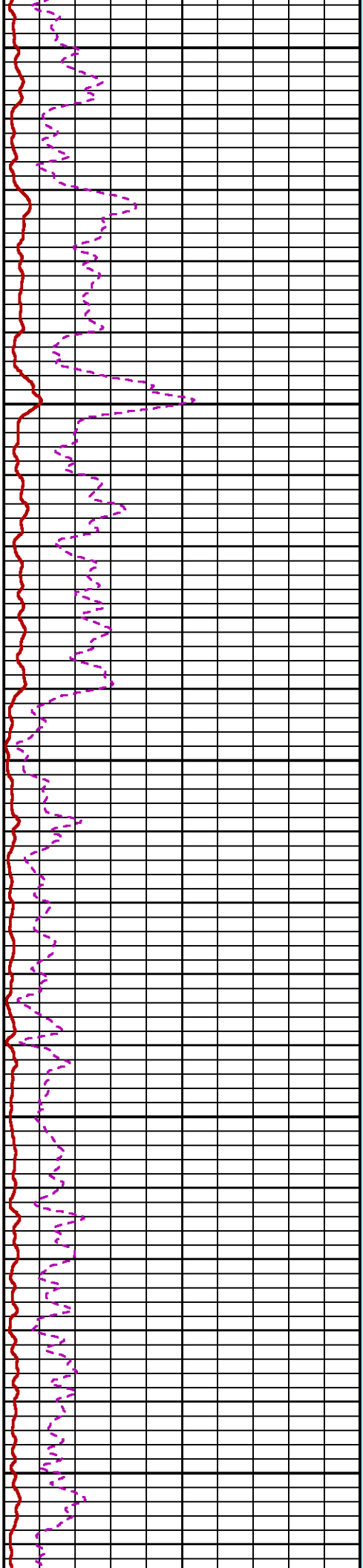
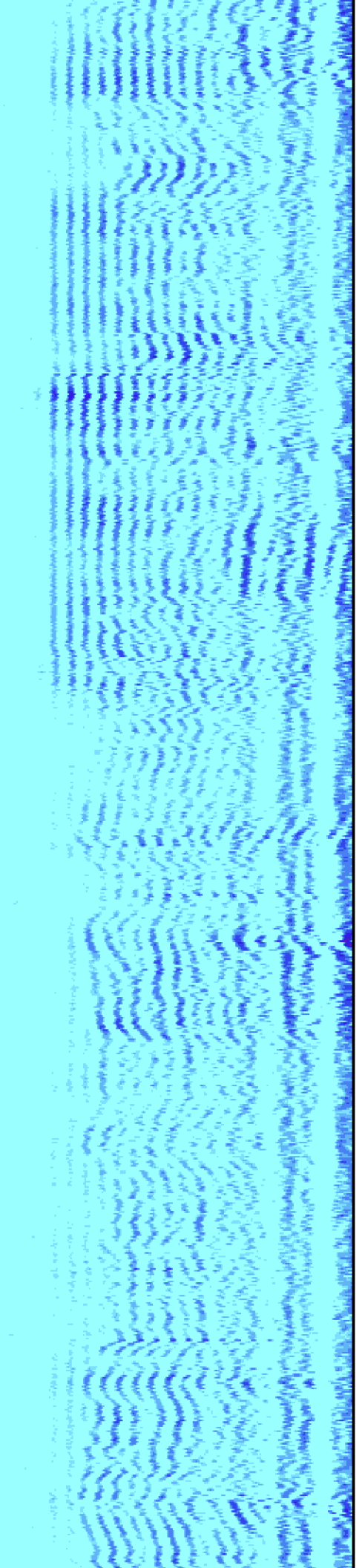
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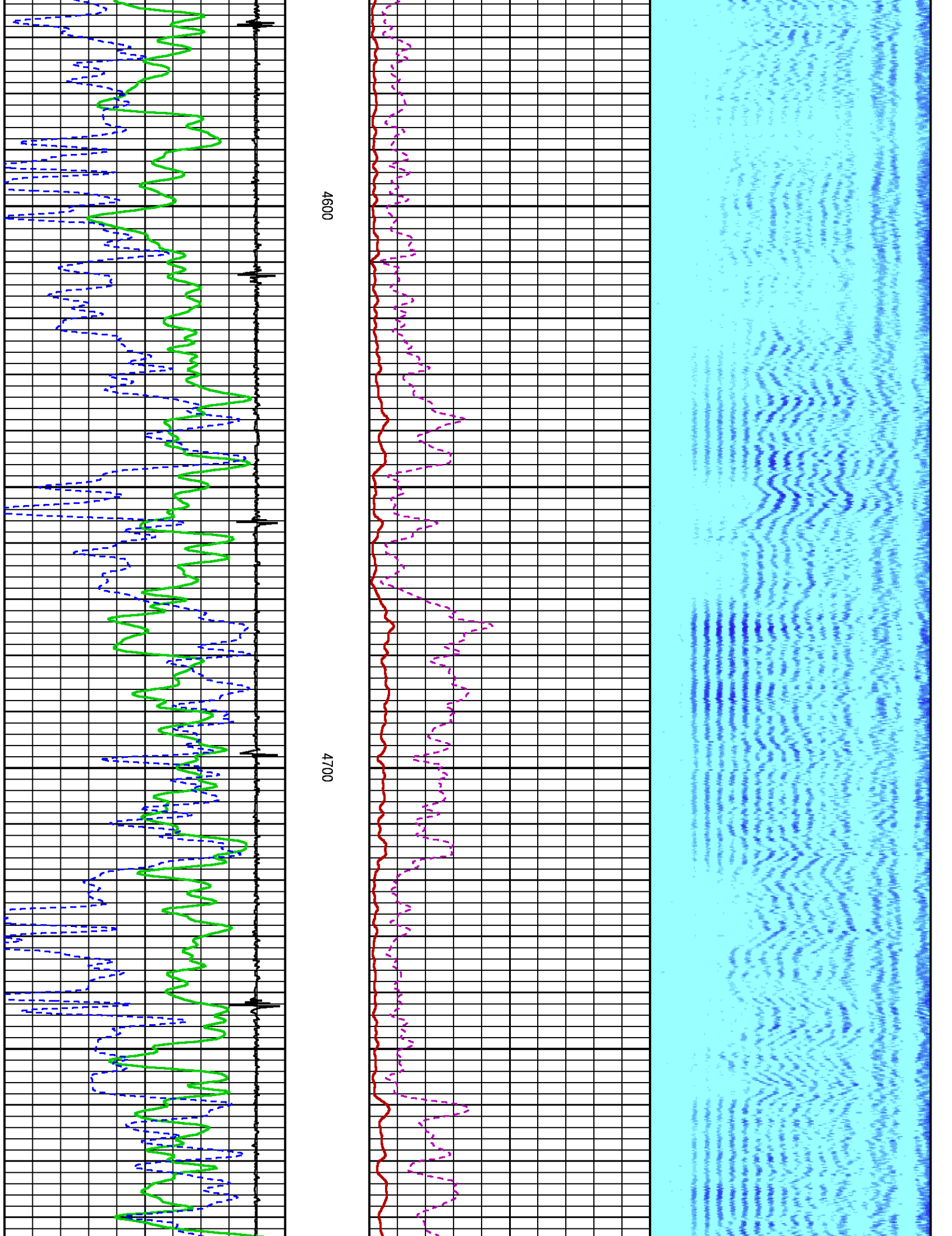
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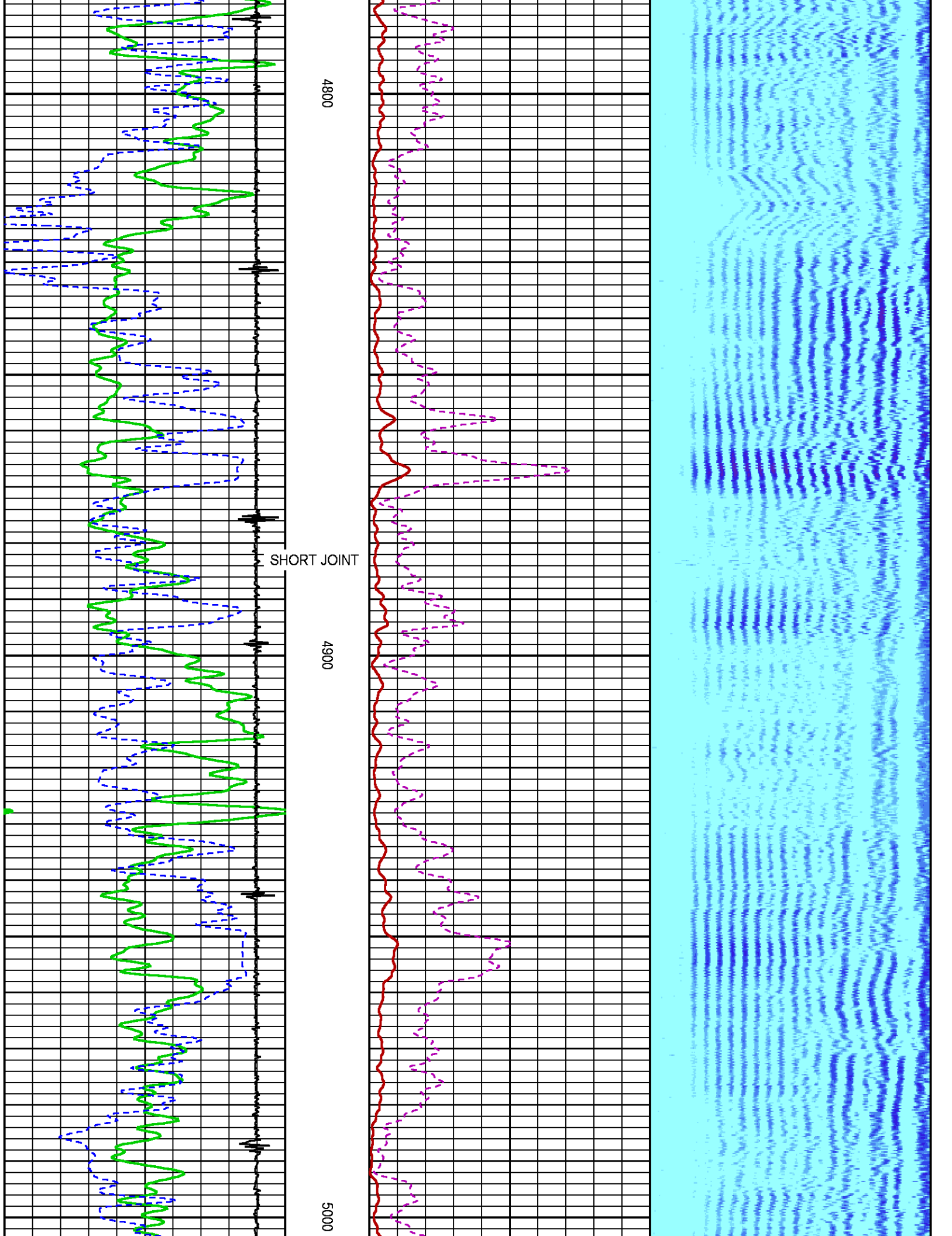


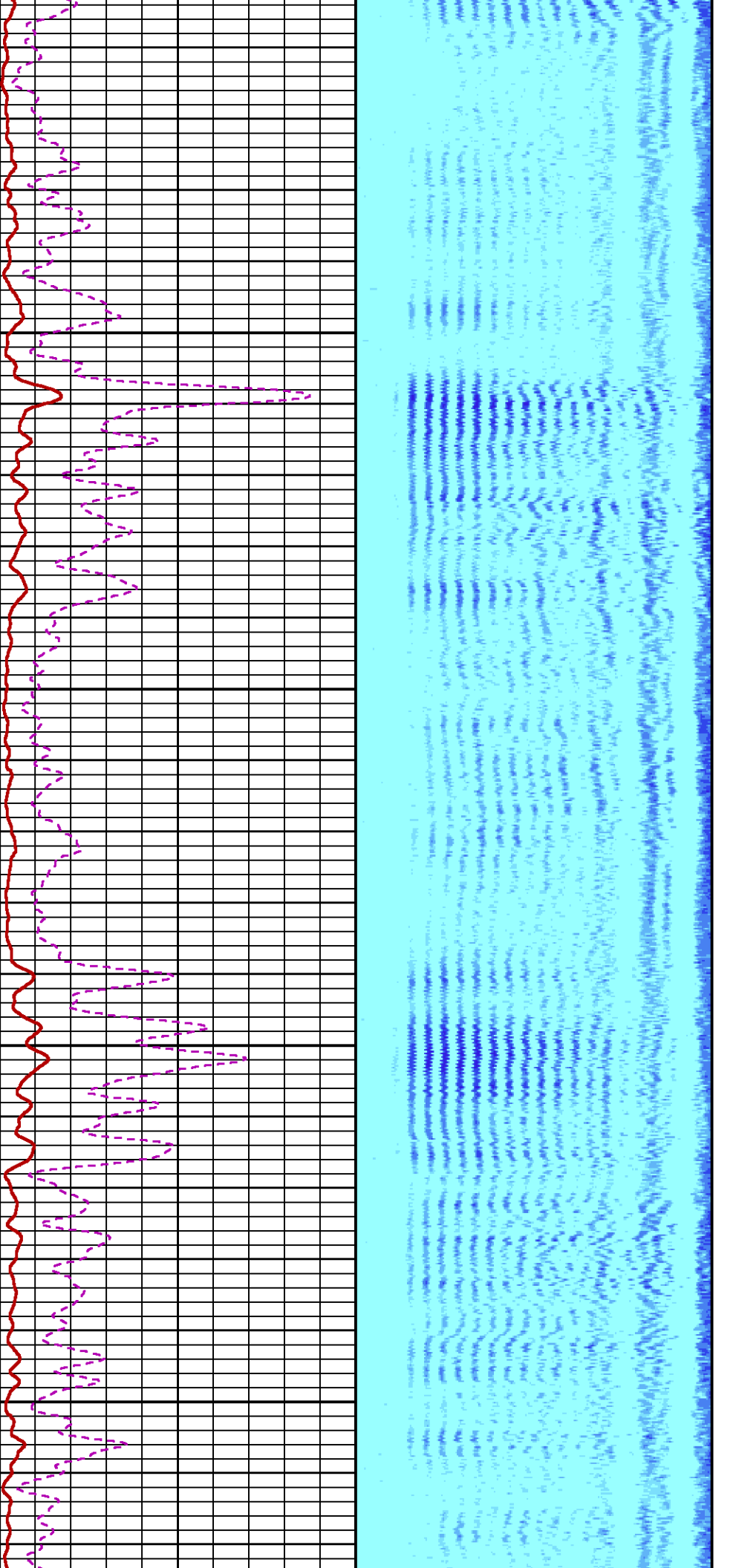






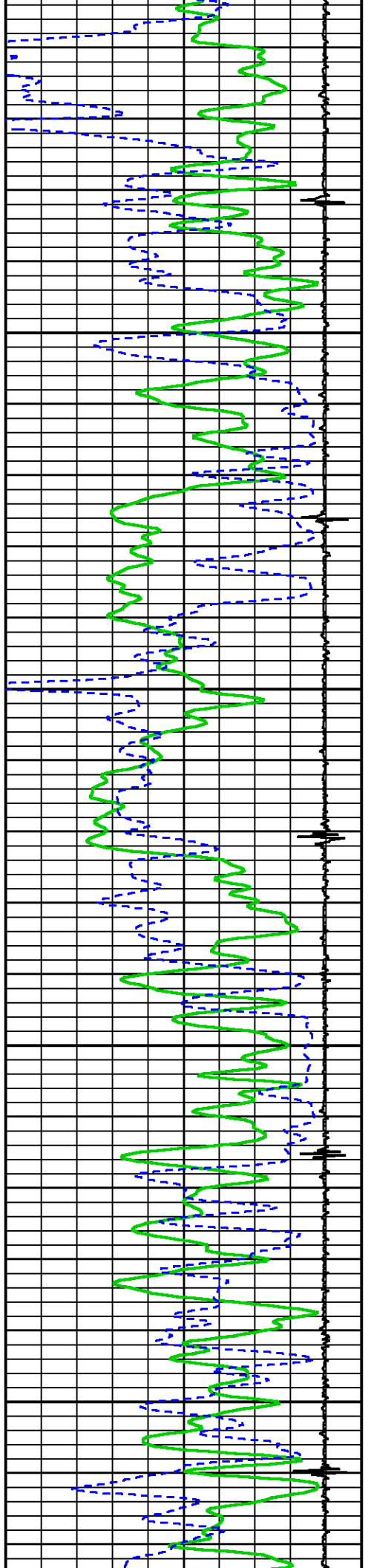


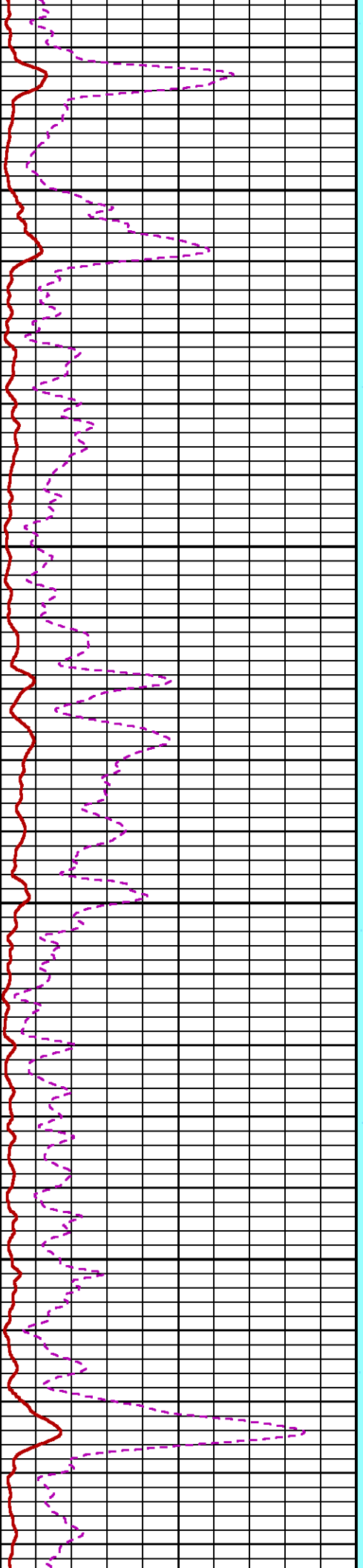
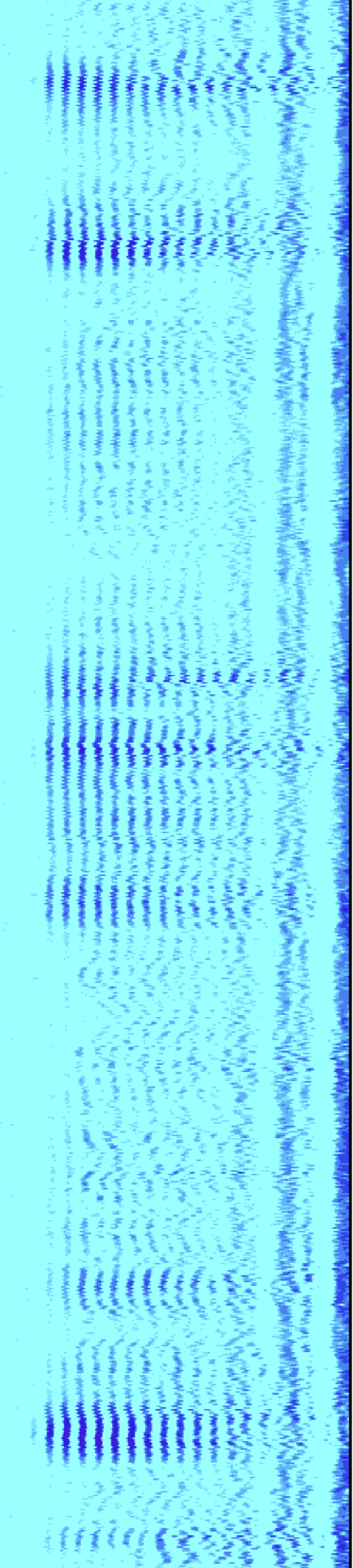




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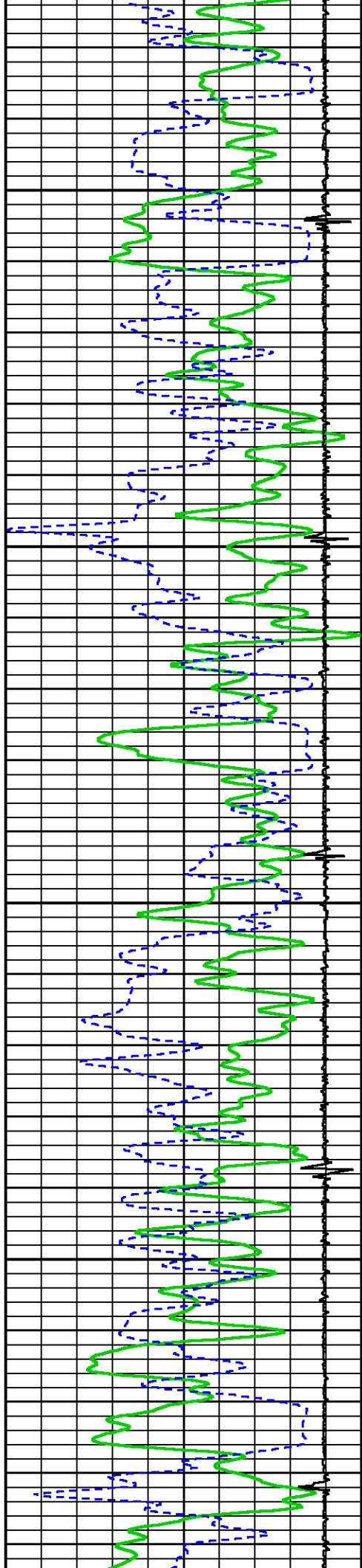
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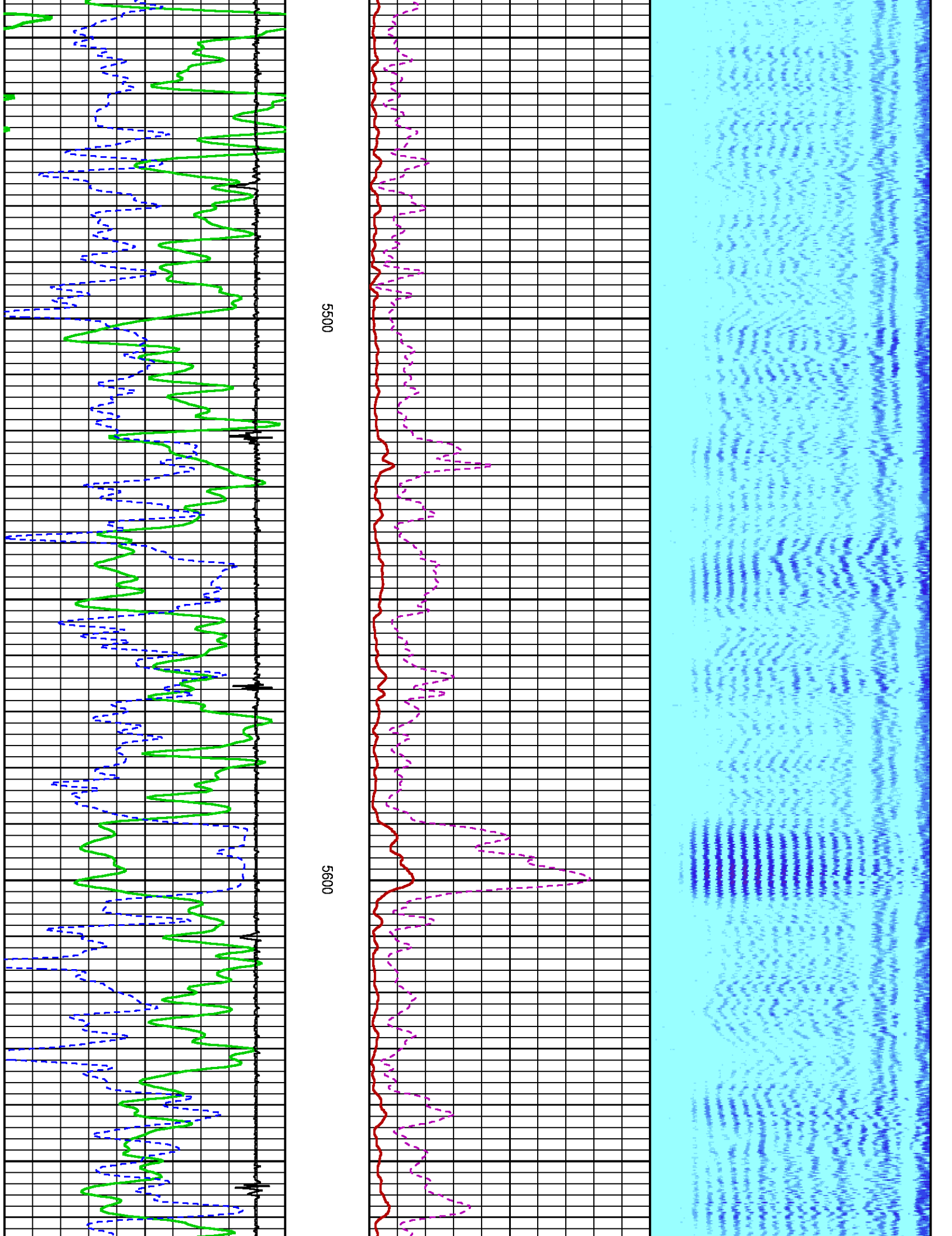


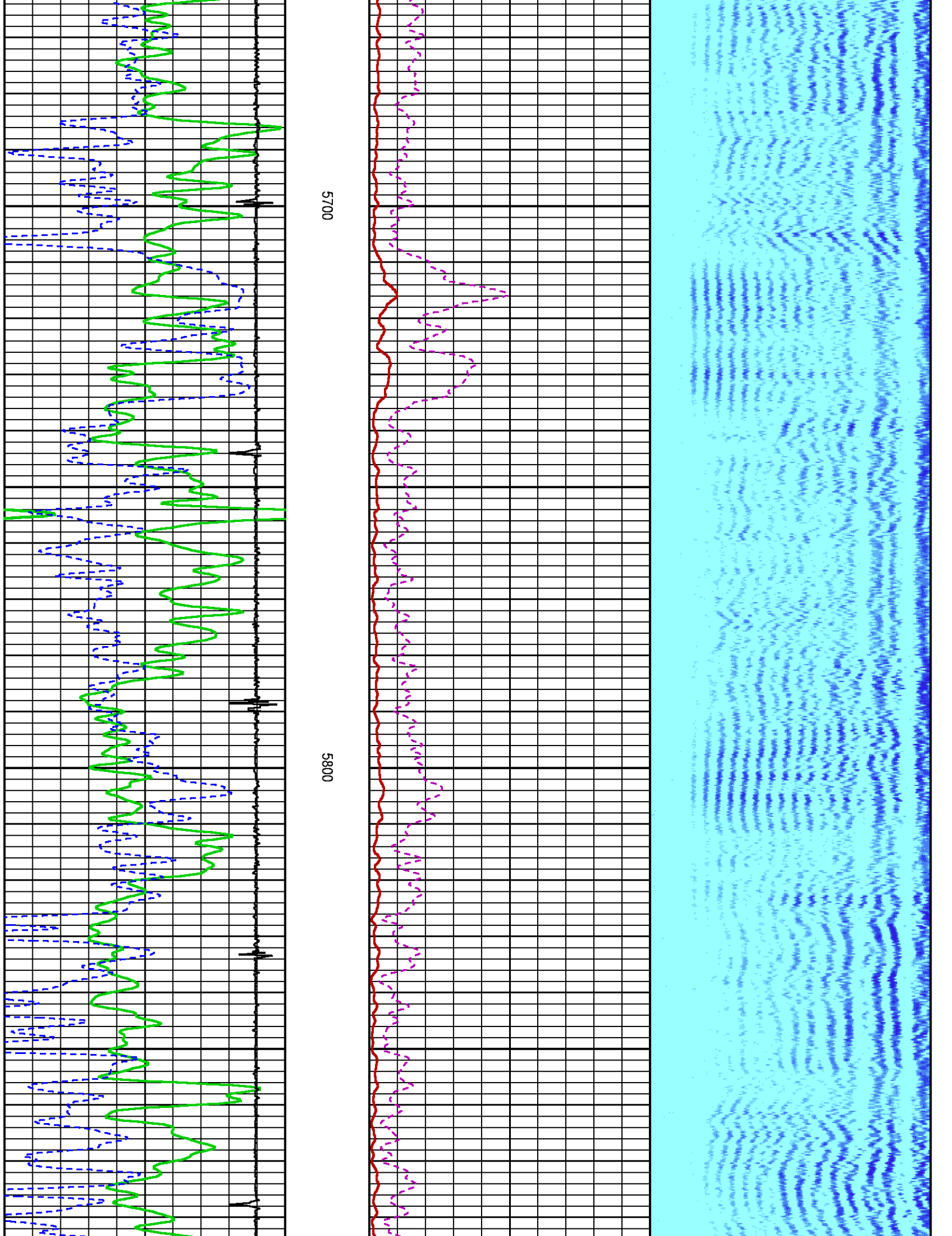


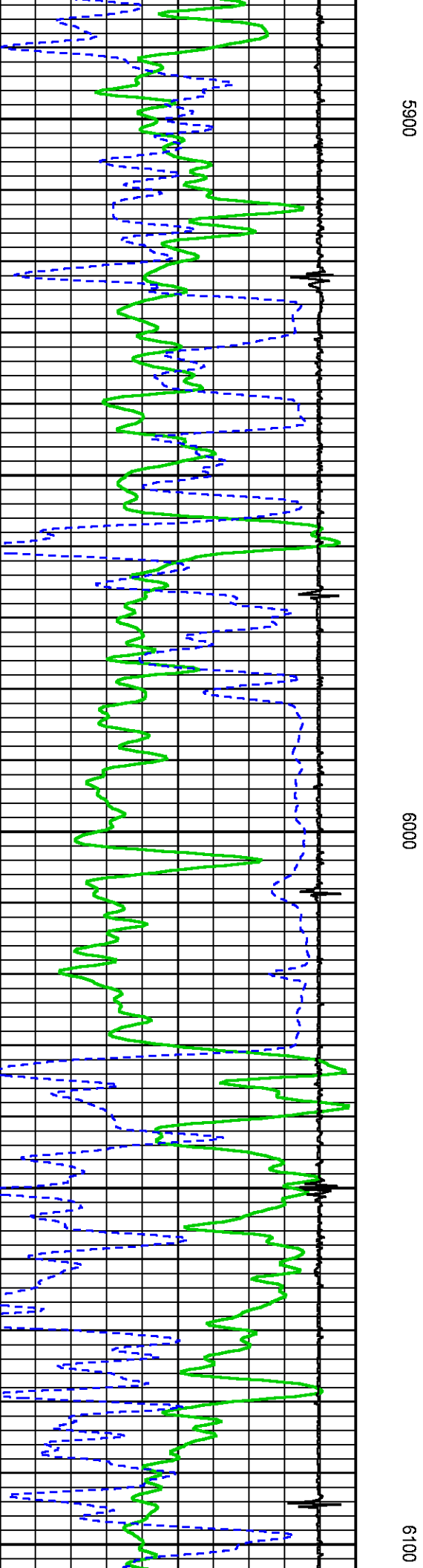
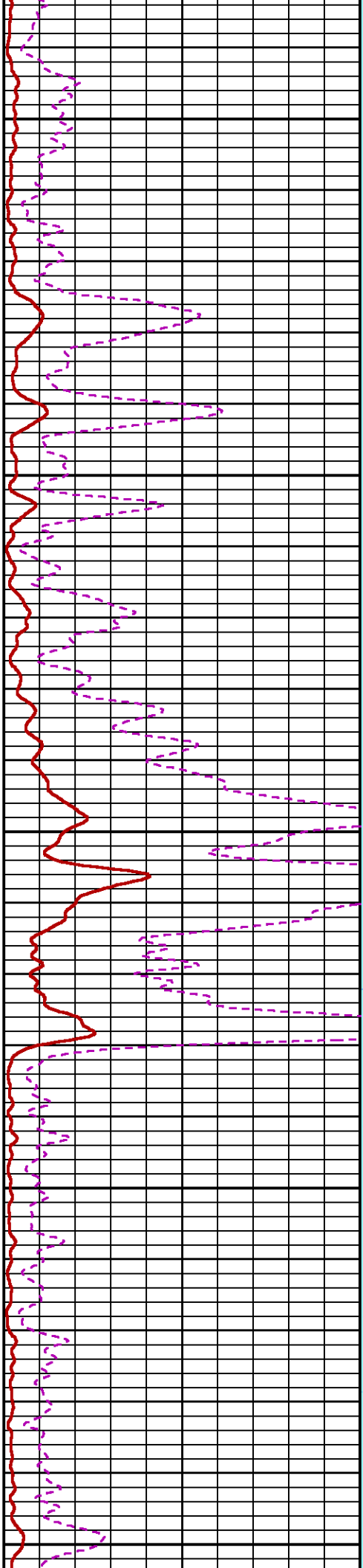
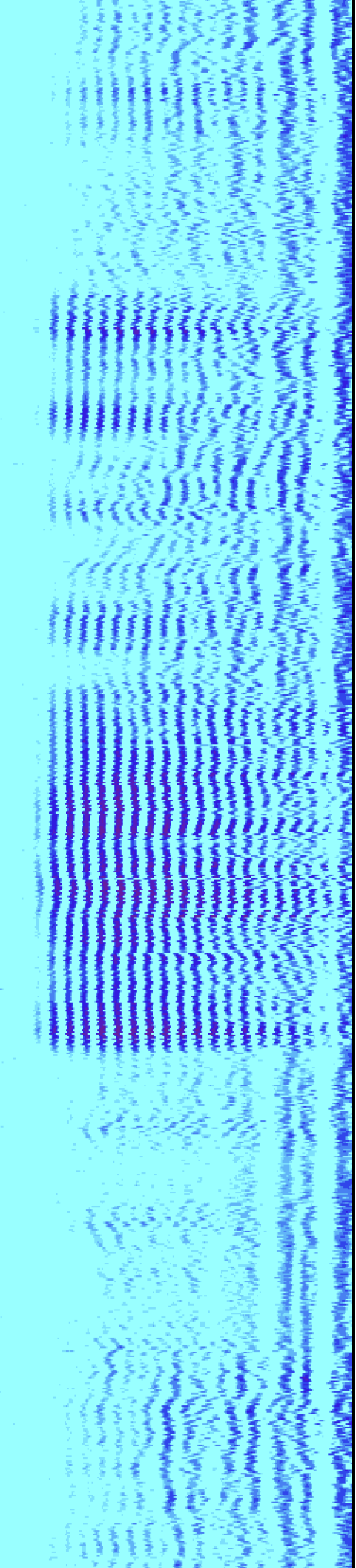
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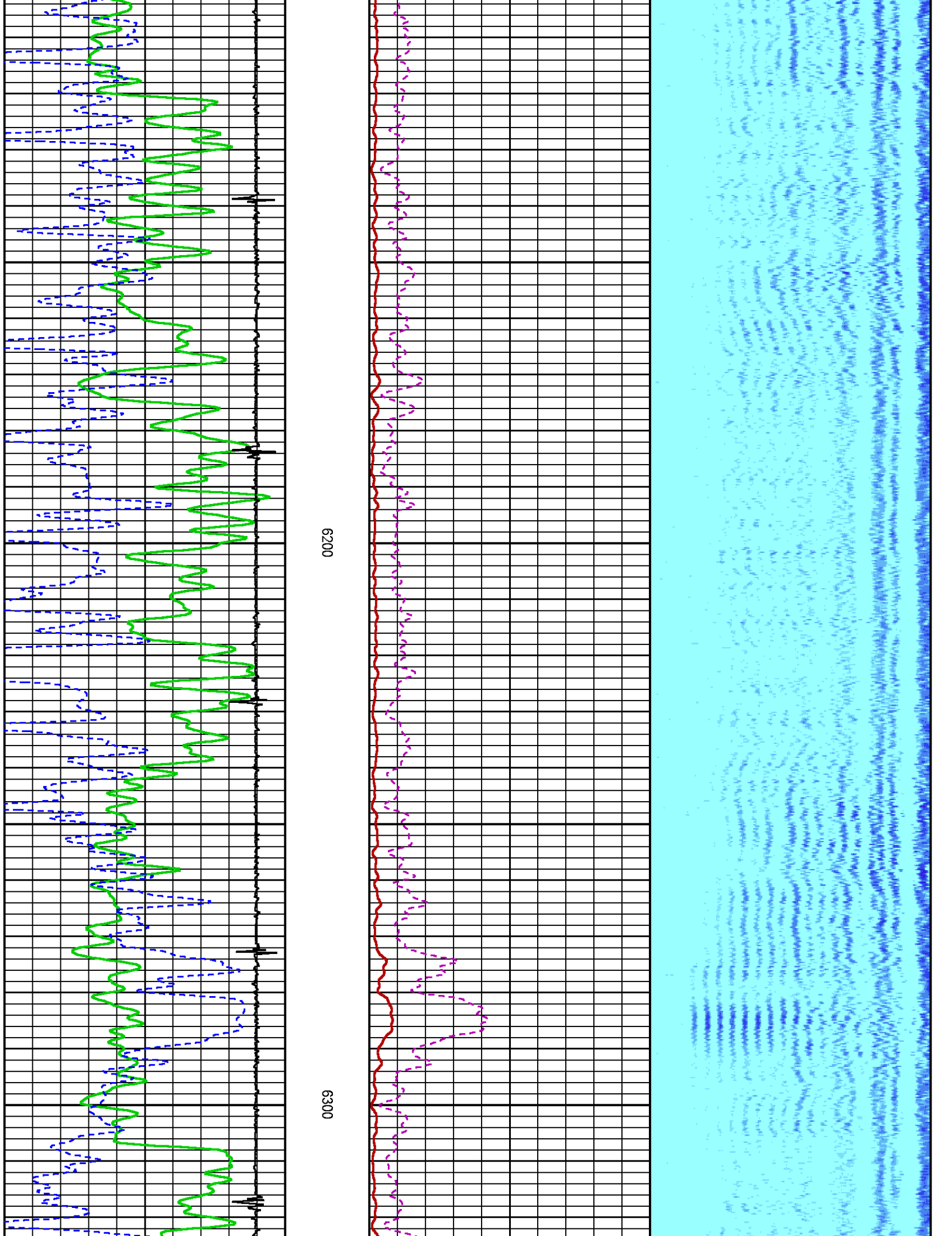
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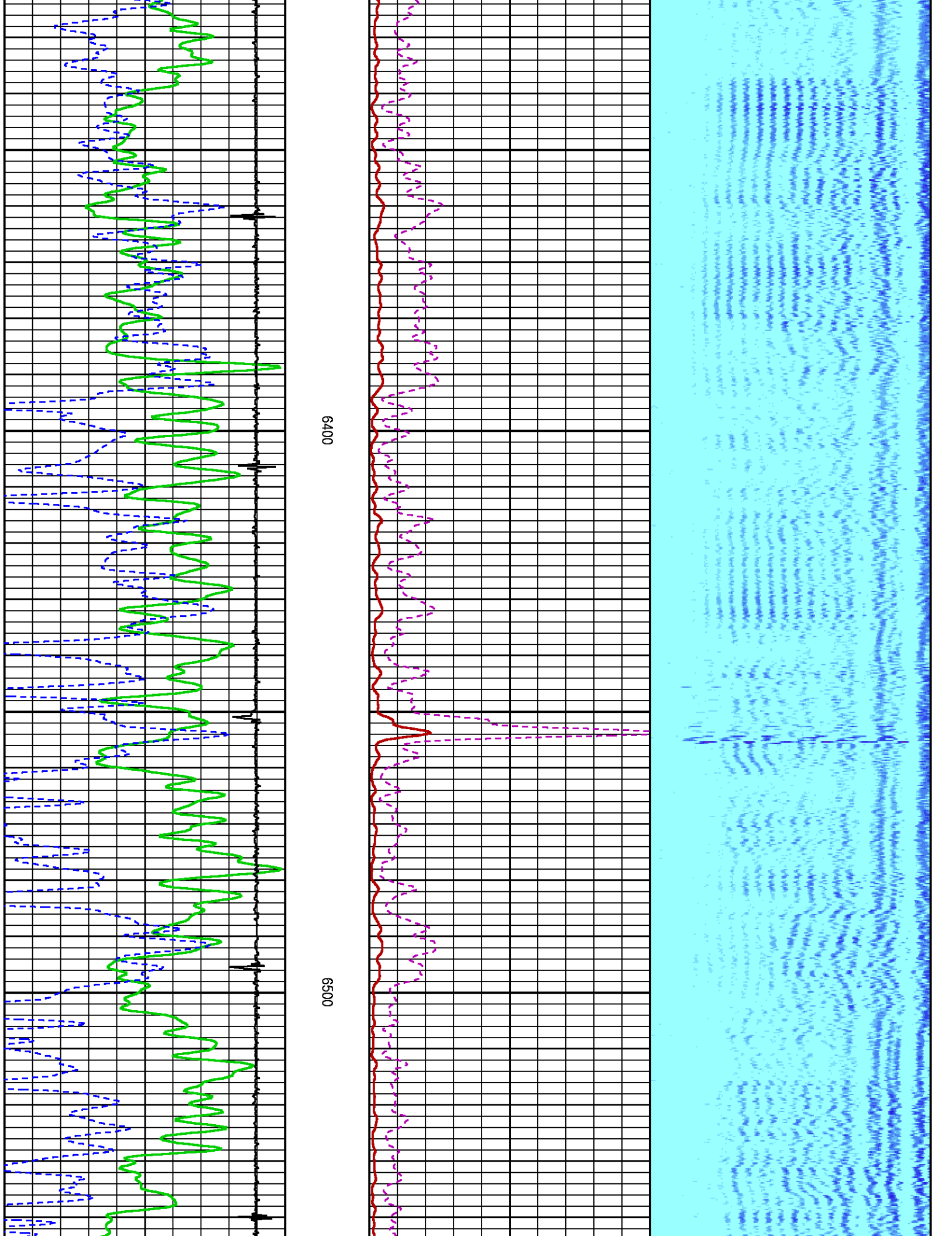


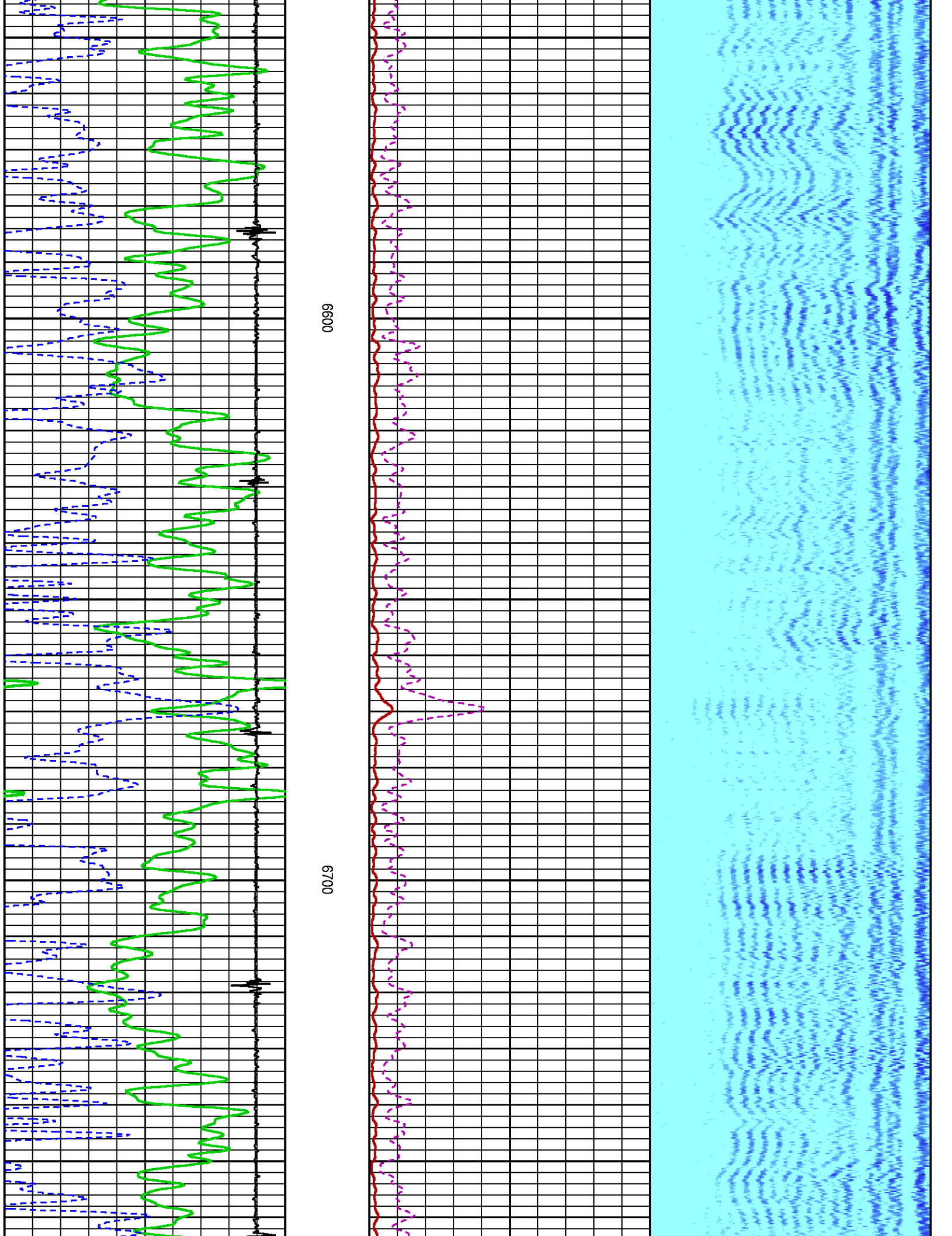


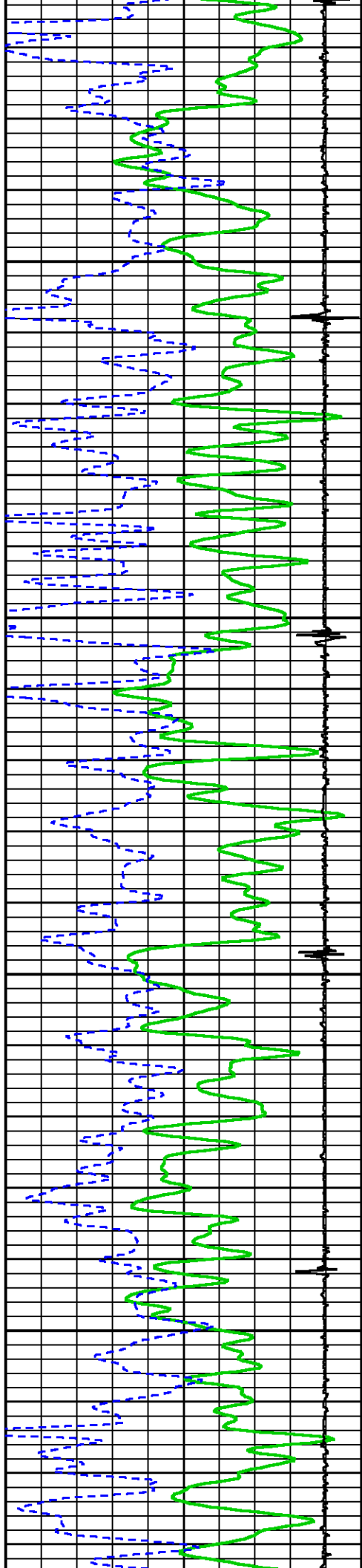






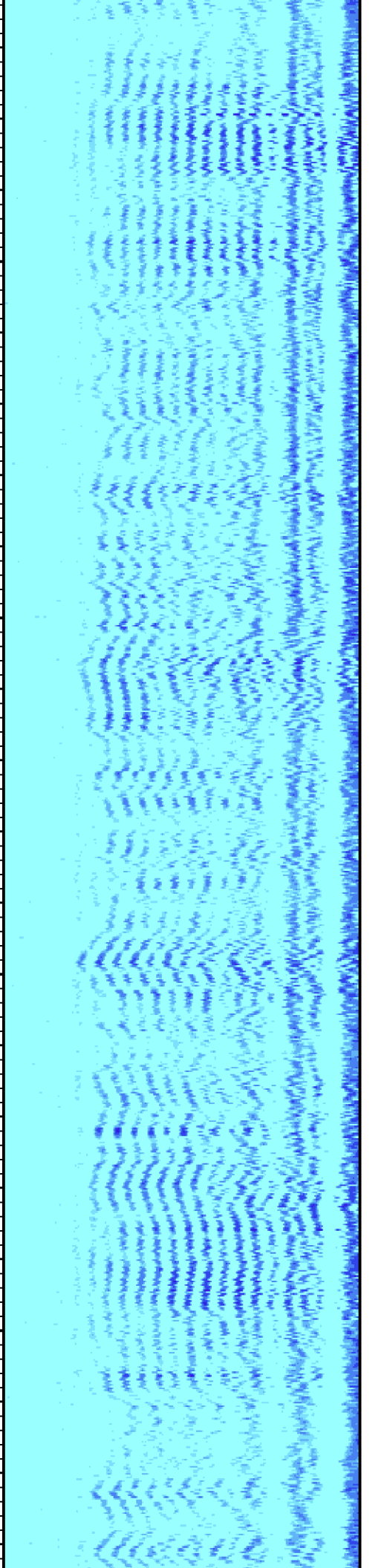
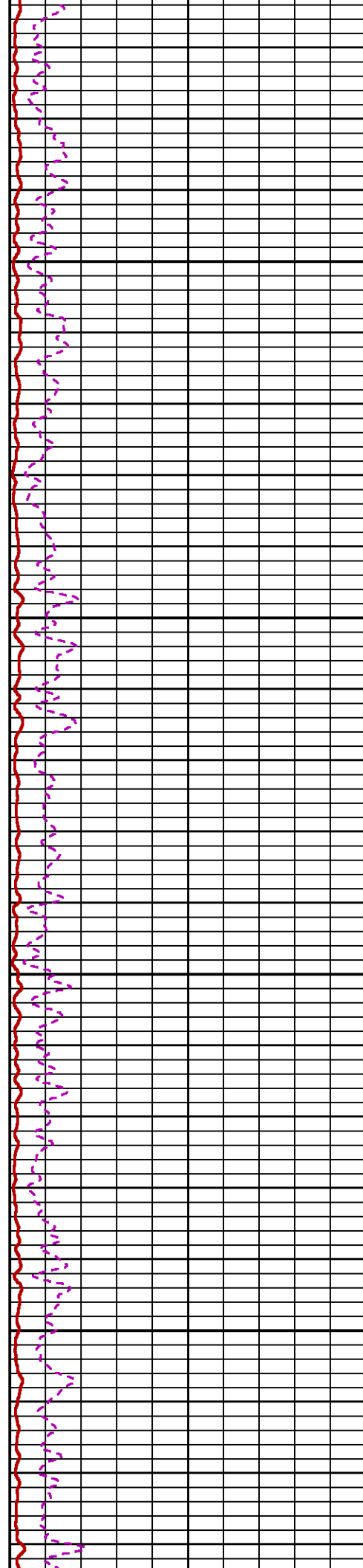


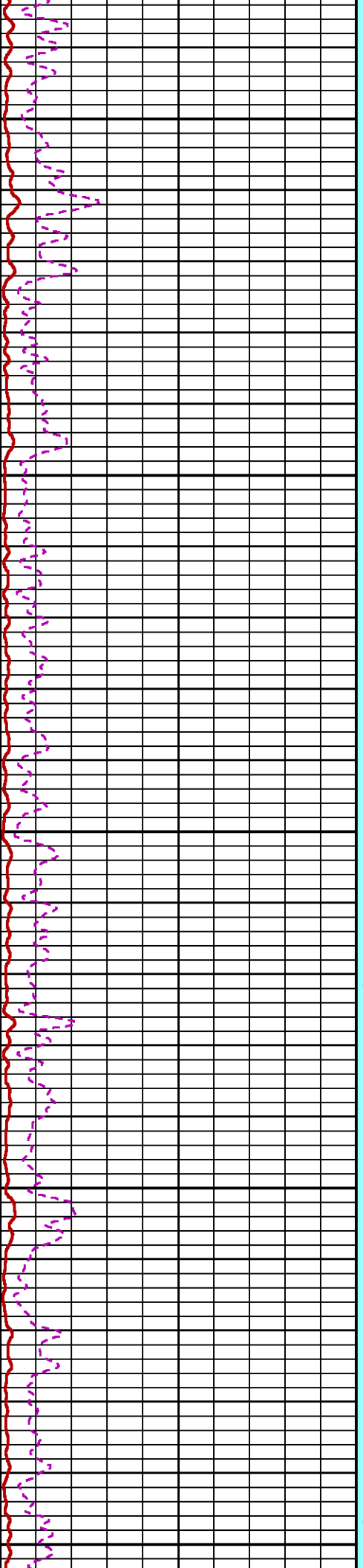
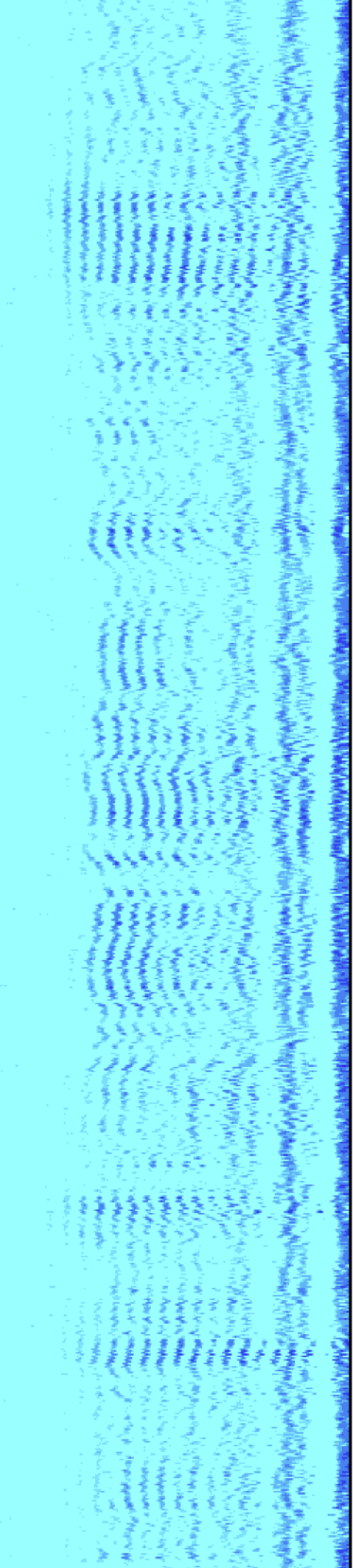




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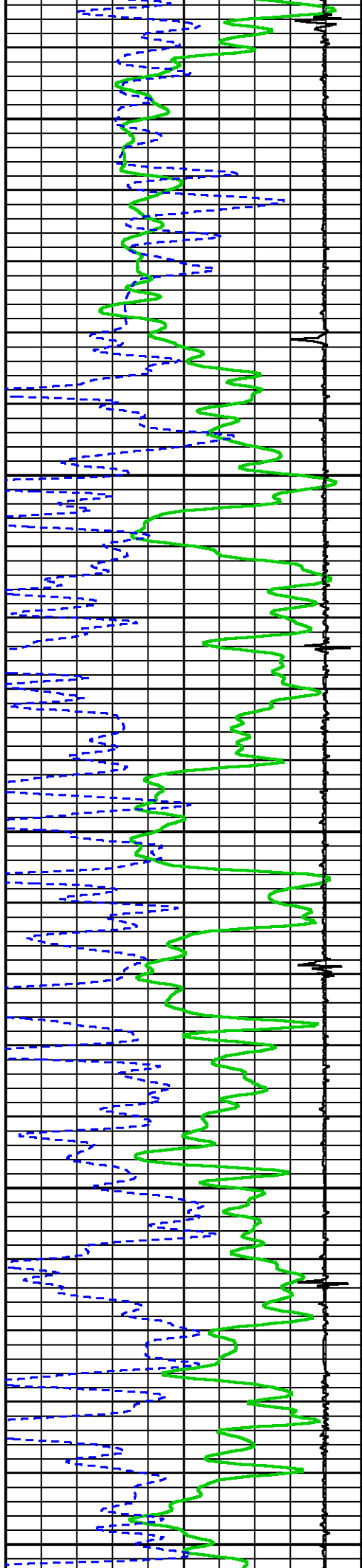


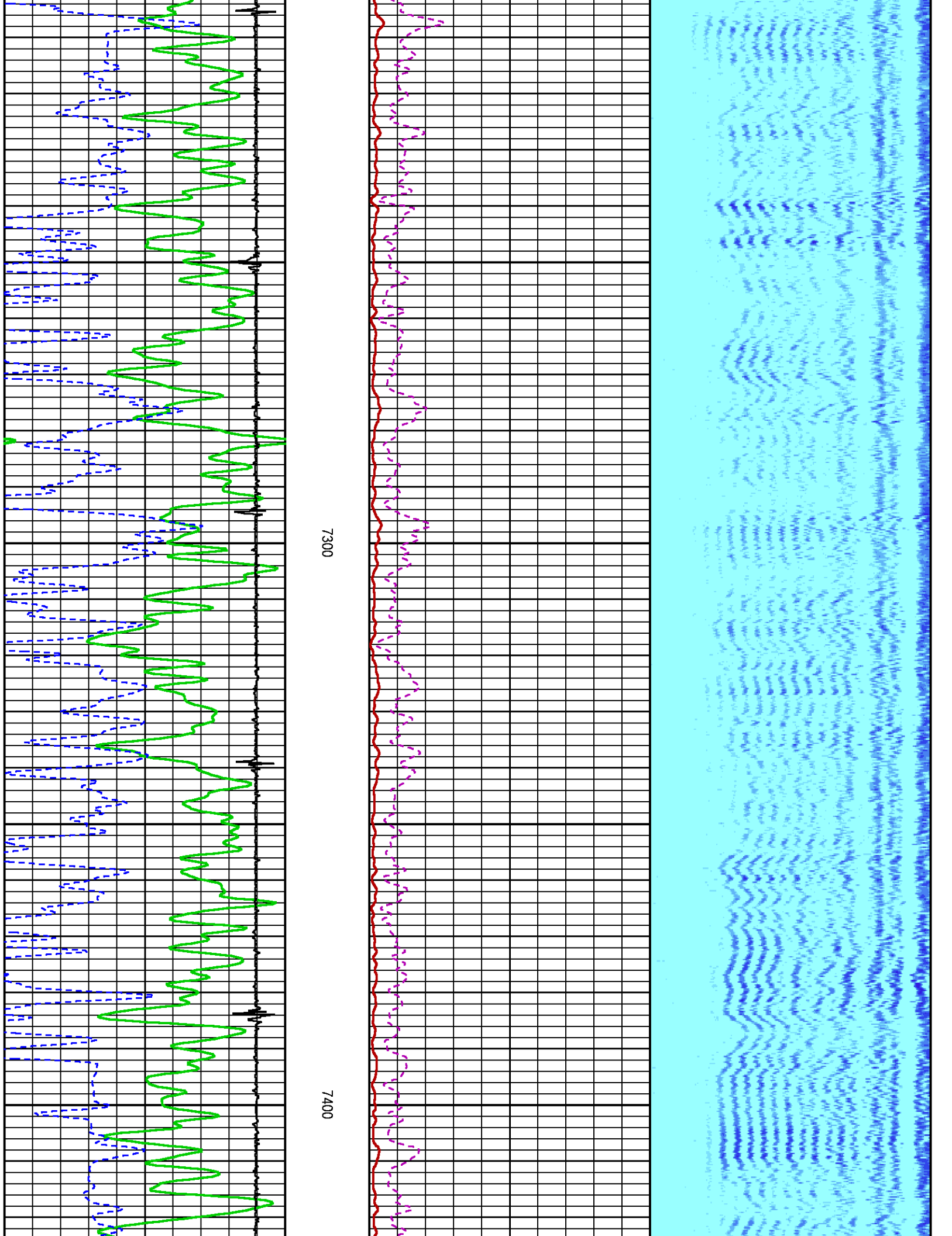


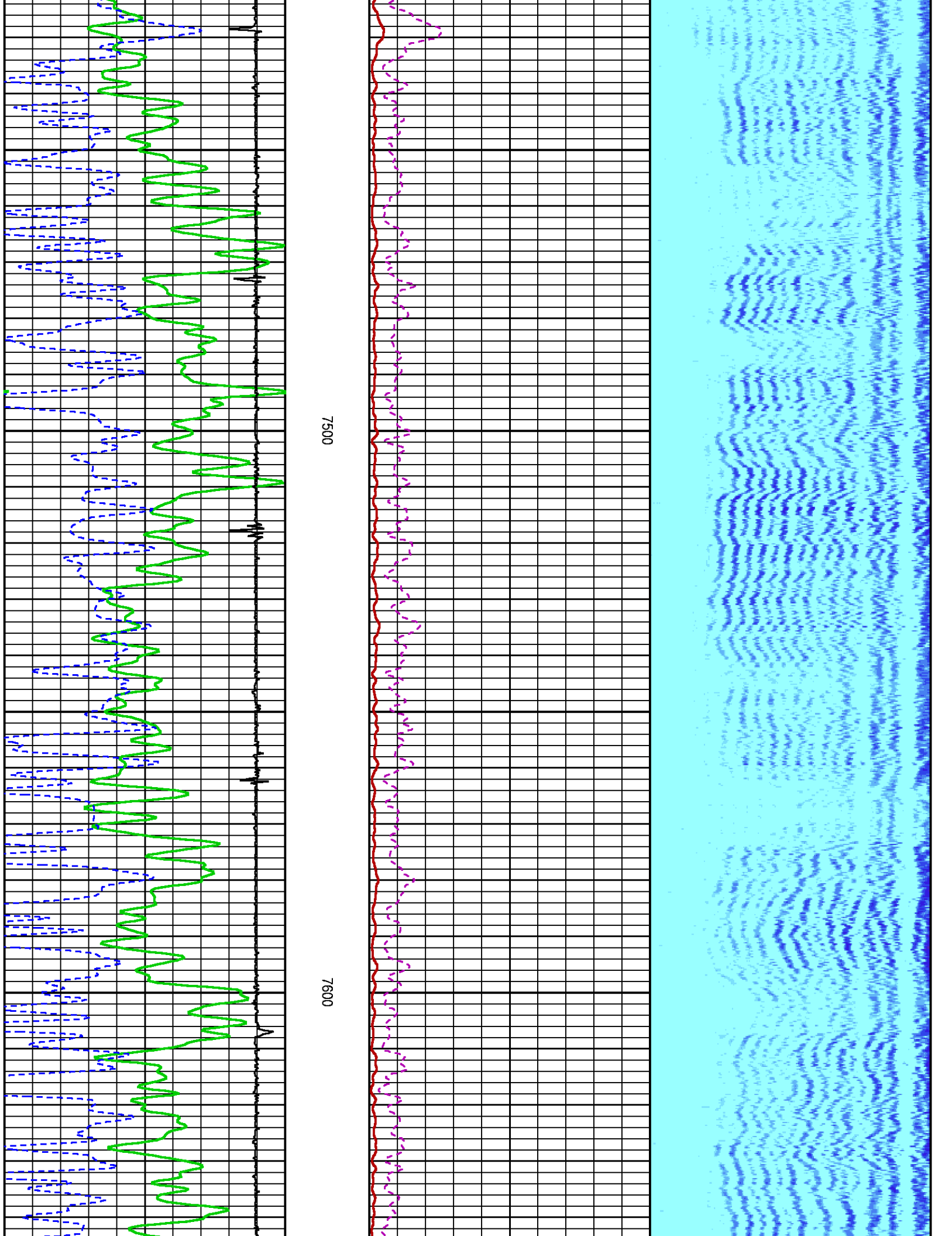
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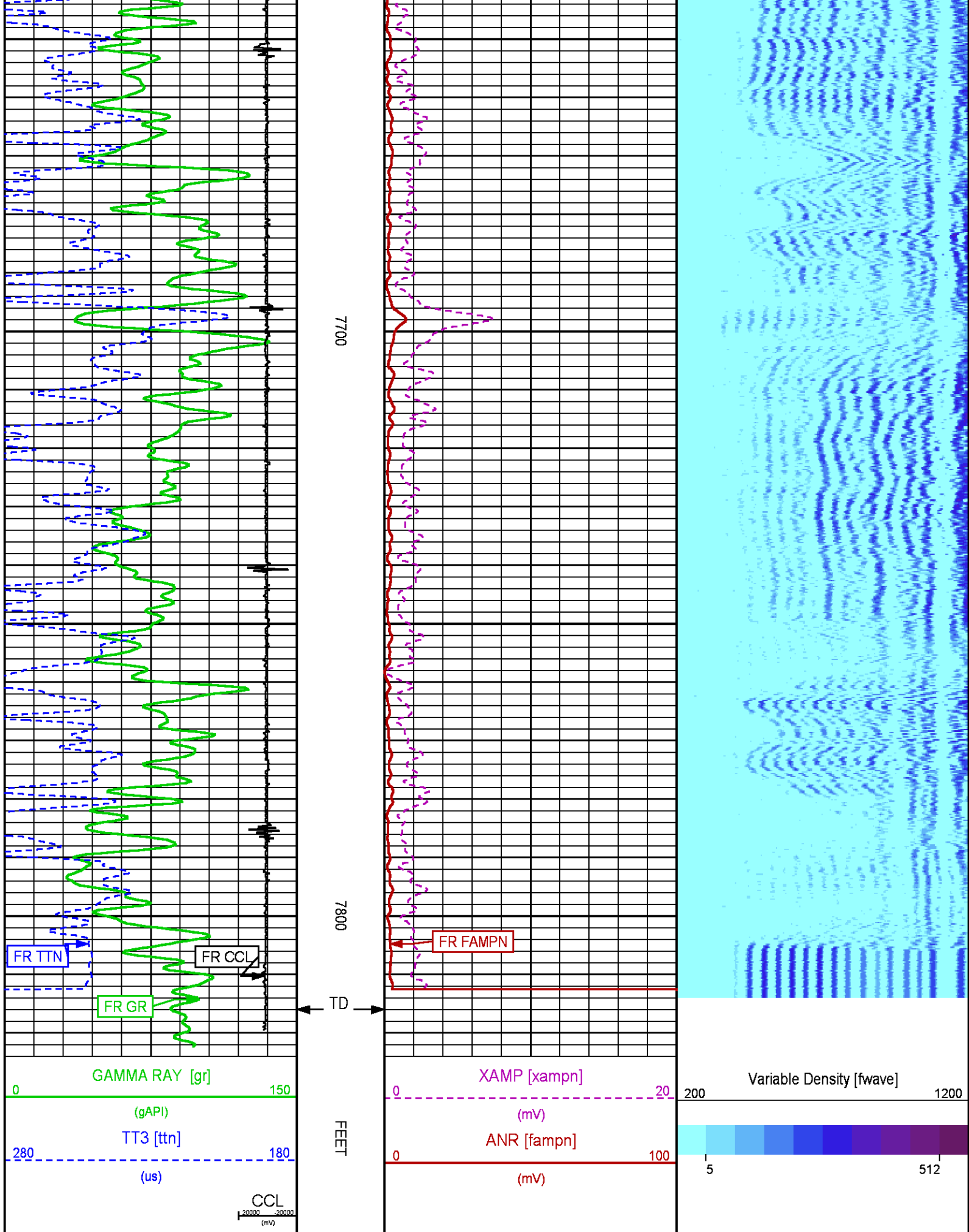
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7200









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: Fri Jul 29 11:44:02 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108538/n012g03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7555.500 ft BOTTOM DEPTH: 7812.750 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	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	170	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*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

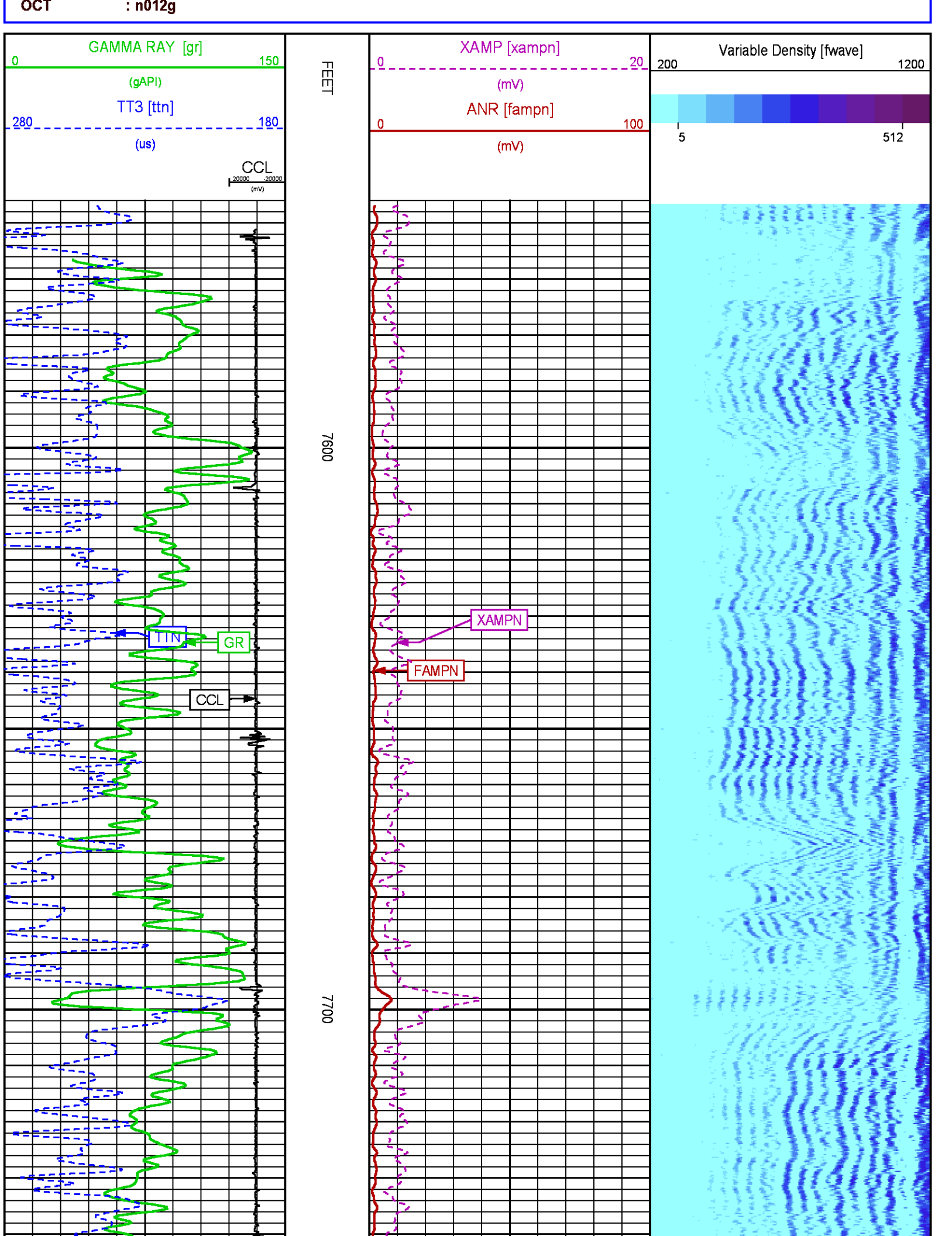
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jul 29 09:55:48 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 29 09:55:48 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 29 09:55:48 2016	FAR WAVE FORM
F1:GR	Jul 29 09:55:48 2016	GAMMA RAY
F1:TTN	Jul 29 09:55:48 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 29 09:55:48 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

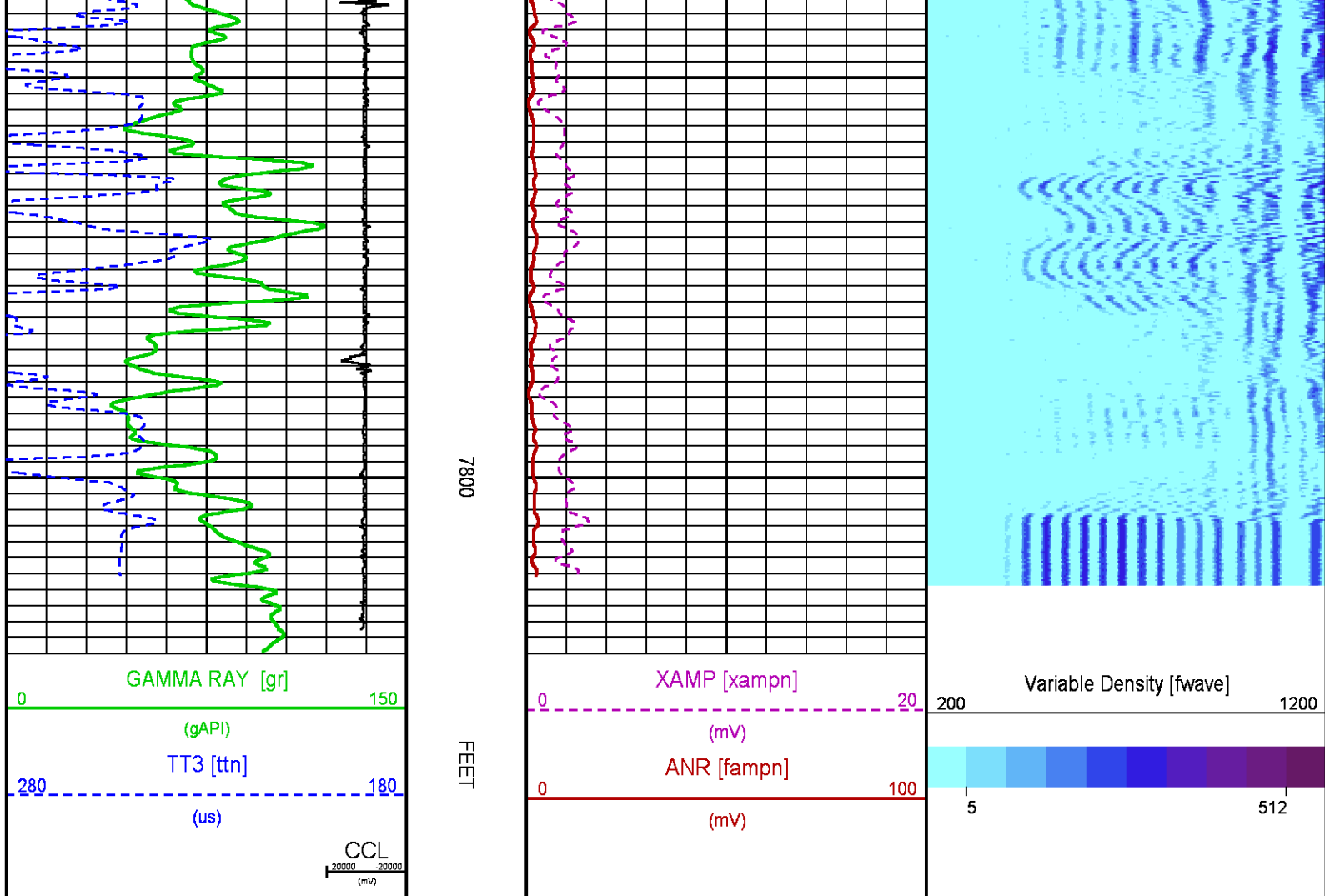
CURVE MEASURE POINT OFFSET

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/CH108538/TERRA_CBL_RPT.fvpdf [5"/100' Scale]
 Plot Interval : 7556.75 - 7823.5 Feet

Data File 1 : F1 : cas6685:C:\Users\spenj\Documents\VDIS\Jobs\WPX\GM532-9\CH108538
 Created On : 07/29/2016 09:55:48 2016
 Company : TERRA ENERGY PARTNERS LLC
 Well : FEDERAL GM 532-9
 Field : GRAND VALLEY
 File Interval : 7543.75 - 7824.75 Feet





SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Patches: 9

Plotted: Tue Aug 02 11:01:32 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\Users\spenjos\Documents\VDIS\Jobs\WPX\IGM532-9\CH108538\012g04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7.000 ft BOTTOM DEPTH: 7813.250 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*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp2*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp3*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp4*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp5*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp6*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgp7*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW START (fgp8*)	184	us	TOP	3652.000
		182	us	3652.000	BOTTOM
	AMP WINDOW START (fgpn*)	184	us	TOP	3652.000
RAL CASING PARAMETERS		182	us	3652.000	BOTTOM
	AMP WINDOW LENGTH	25	us	TOP	BOTTOM
	TT WINDOW START (ttn*)	170	us	"	"
RAL TOOL DELAY	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-67	us	"	"
	TOOL DELAY (str2*)	-67	us	"	"
	TOOL DELAY (str3*)	-67	us	"	"
	TOOL DELAY (str4*)	-67	us	"	"
	TOOL DELAY (str5*)	-67	us	"	"
	TOOL DELAY (str6*)	-67	us	"	"
	TOOL DELAY (str7*)	-67	us	"	"
	TOOL DELAY (str8*)	-67	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-67	us	"	"
	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	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	"	"
	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

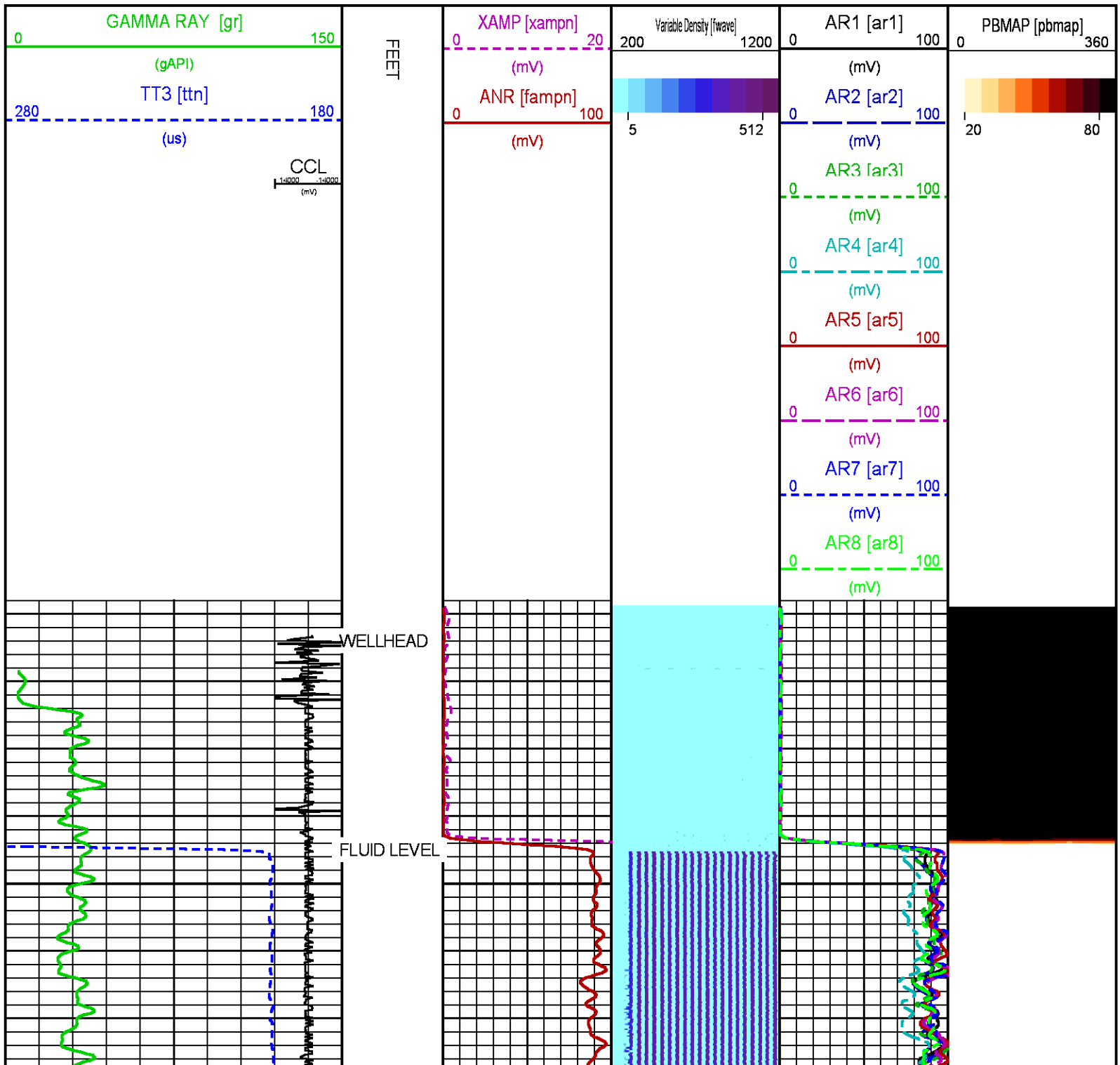
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 29 10:01:23 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 29 10:01:23 2016	FAR WAVE FORM
F1:GR	Jul 29 10:01:23 2016	GAMMA RAY
F1:PBMAP	Jul 29 10:01:23 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jul 29 10:01:23 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 29 10:01:23 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

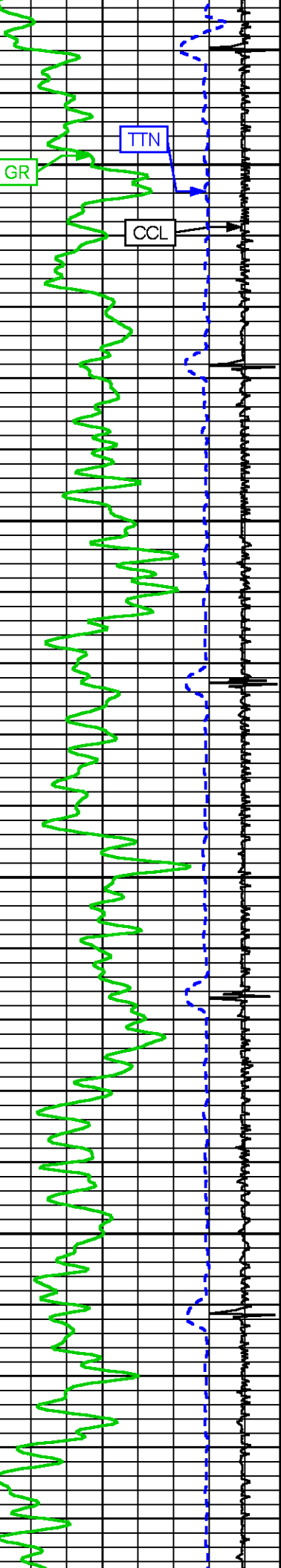
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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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		

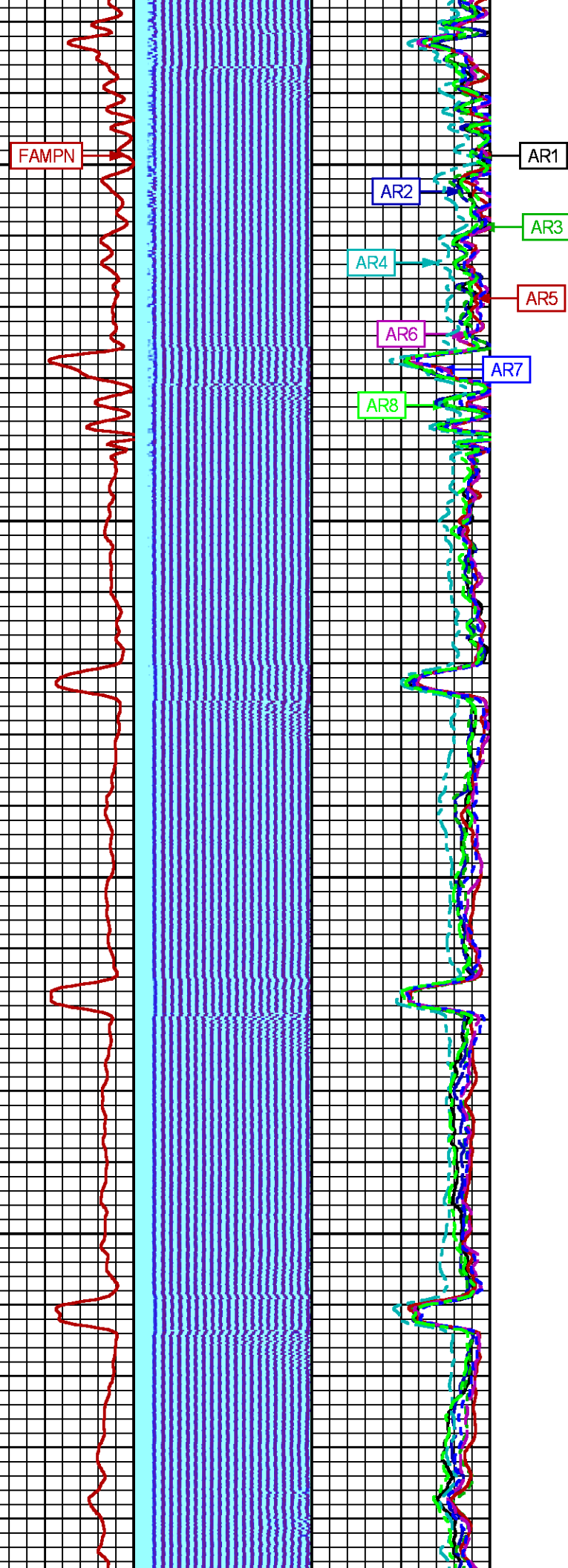
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Plot Interval : 8.75 - 7824 Feet
Data File 1 : F1 : BHI3XZN3R1:C:\Users\spenjosj\Documents\VDIS\Jobs\WPX\GM532-9\CH108538\n012g04.xtf
Created On : Jul 29 10:01:23 2016
Company : TERRA ENERGY PARTNERS LLC
Well : FEDERAL GM 532-9
Field : GRAND VALLEY
File Interval : 7.75 - 7825.25 Feet
OCT : n012g

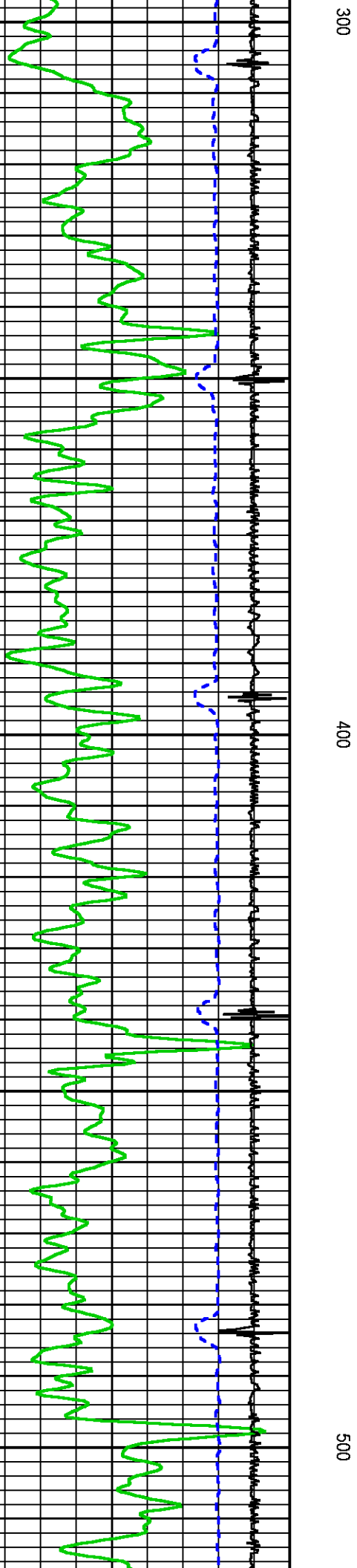
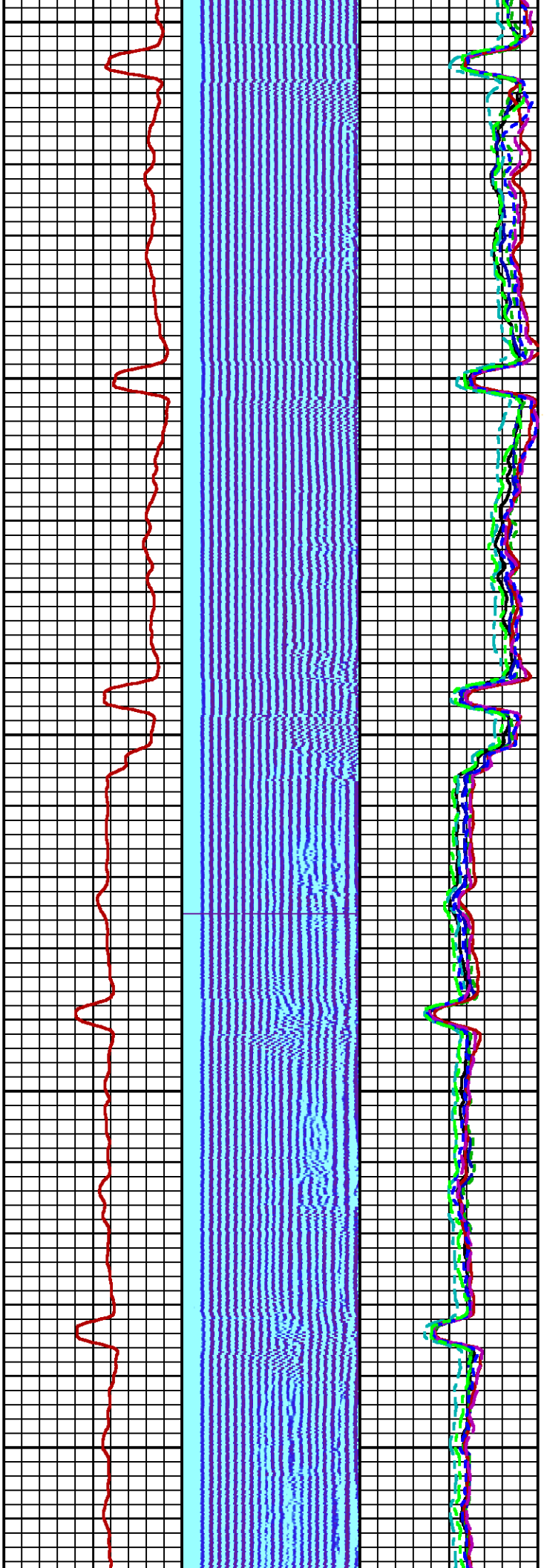


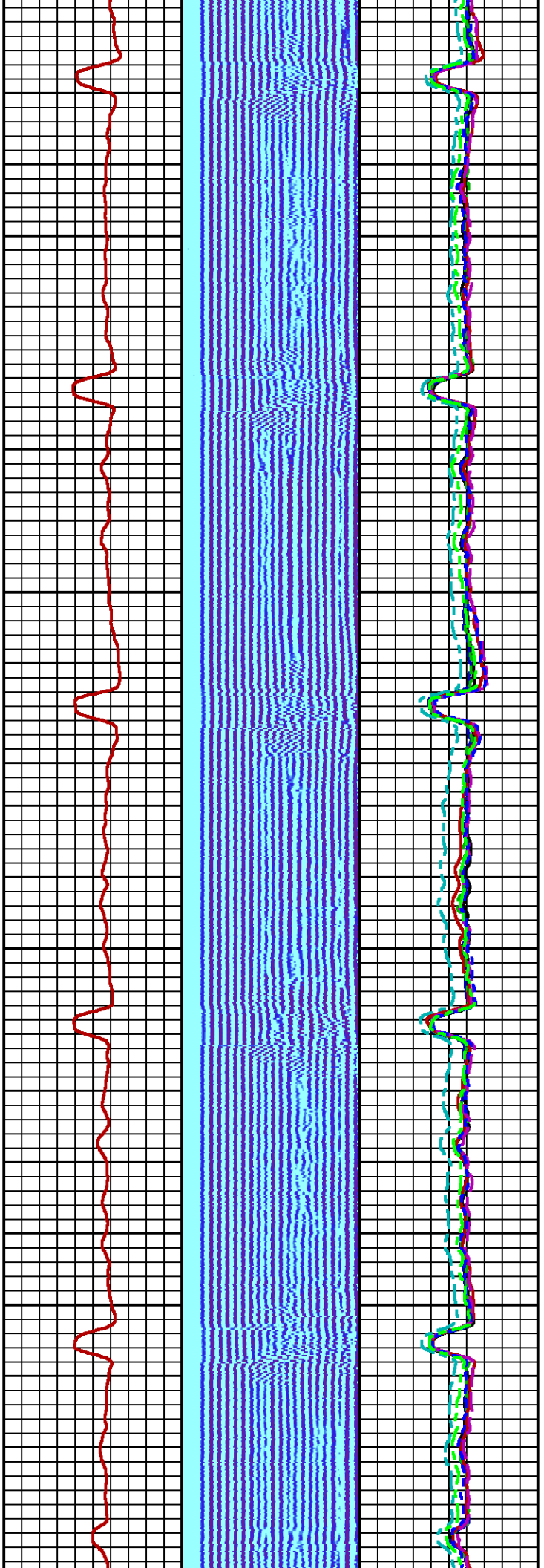


100

200

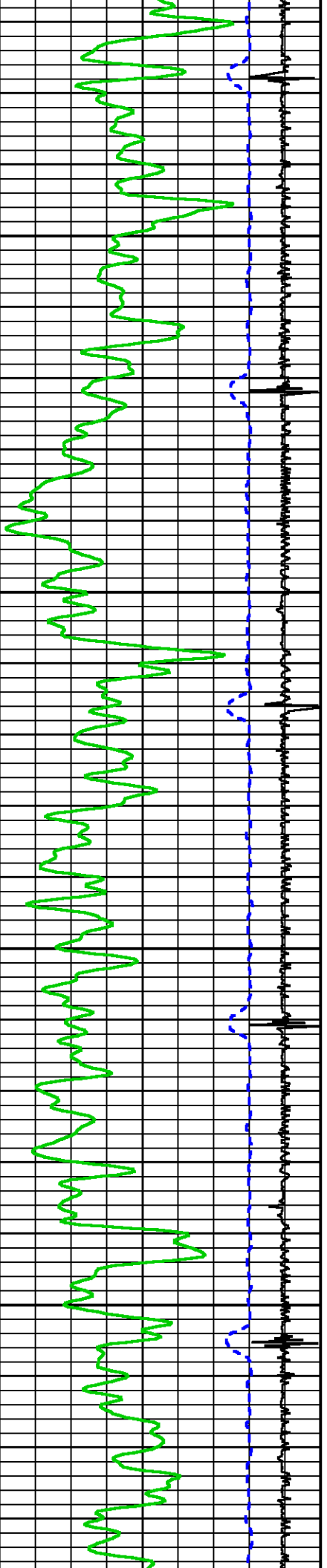


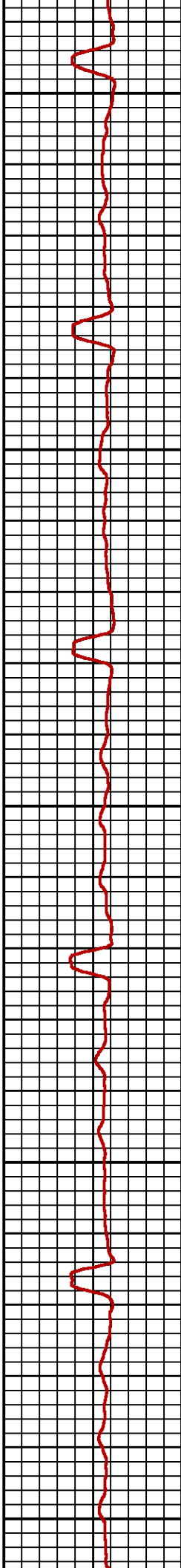
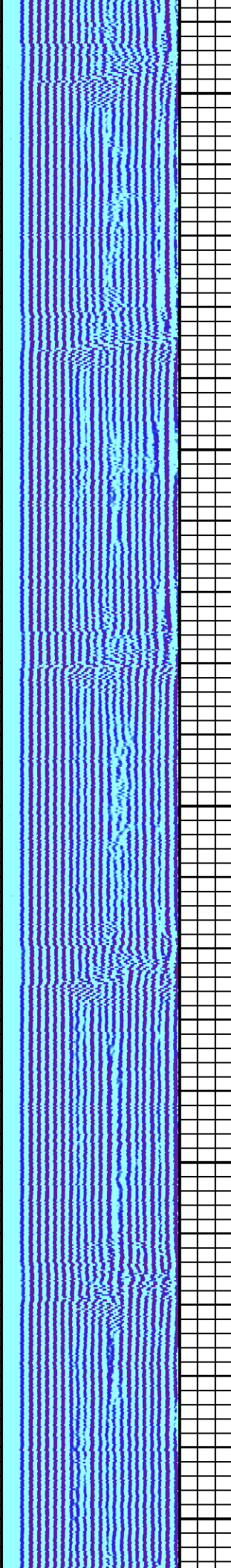
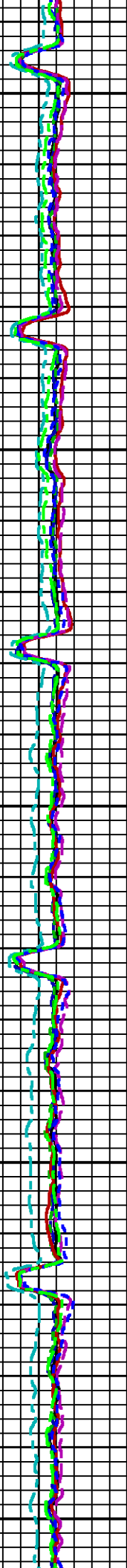
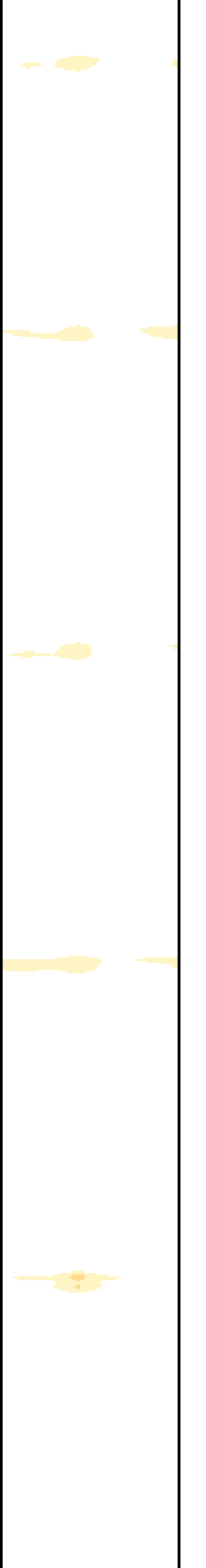




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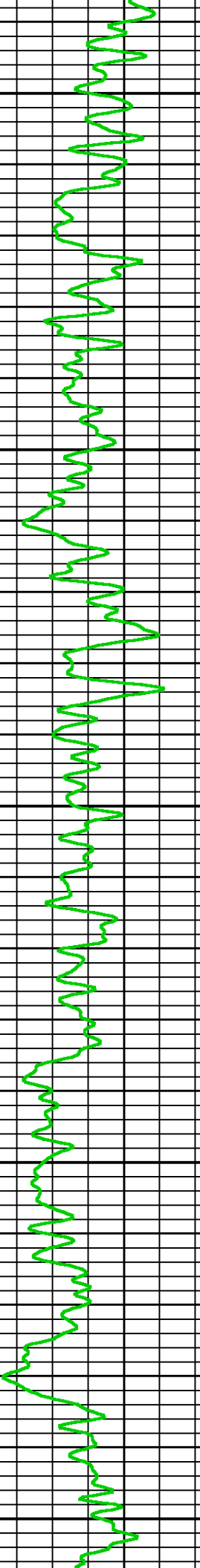
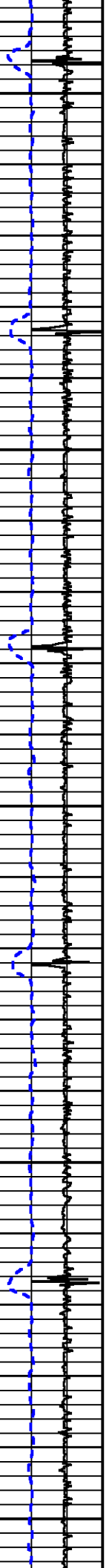
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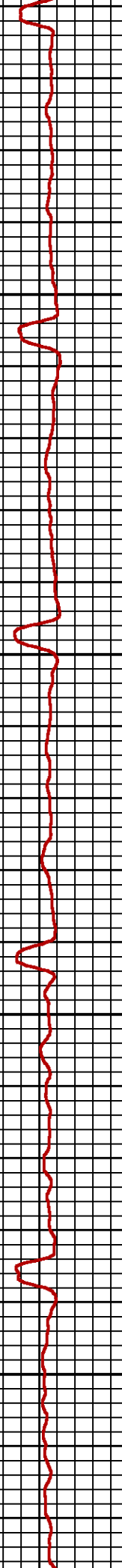
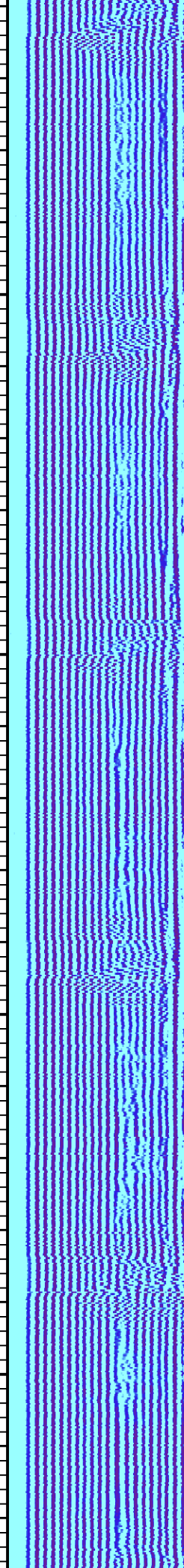
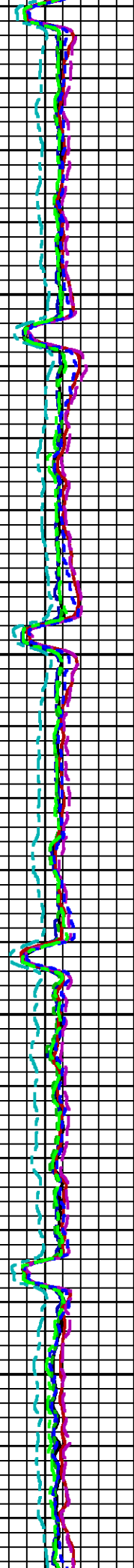
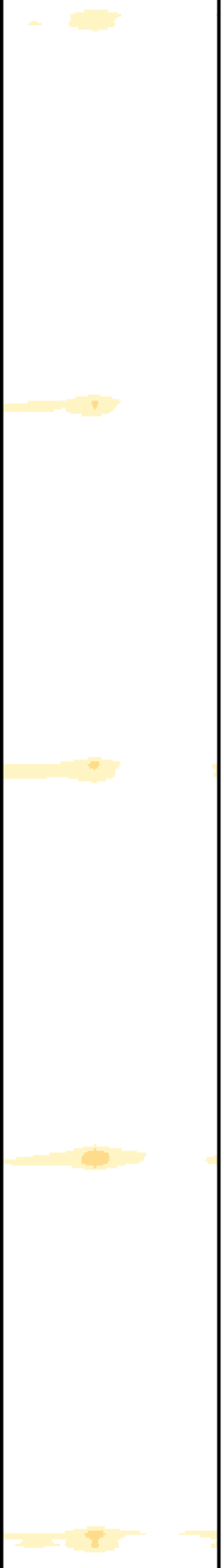




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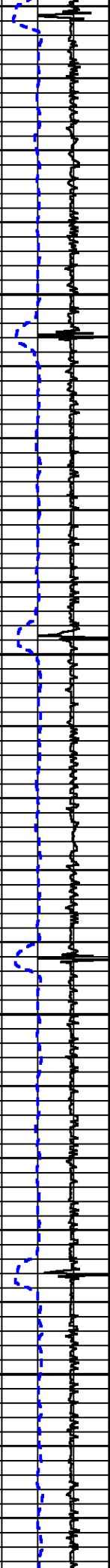
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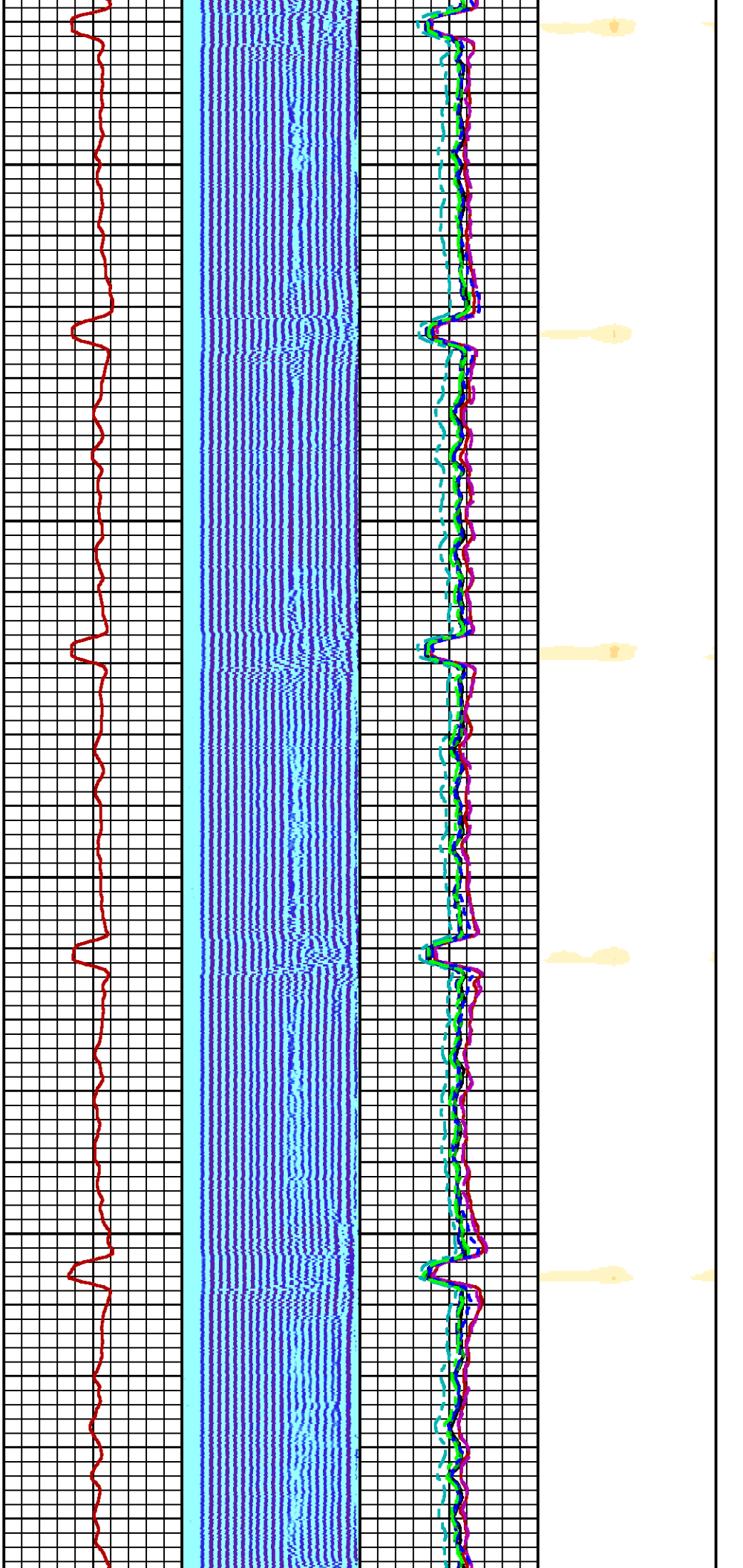




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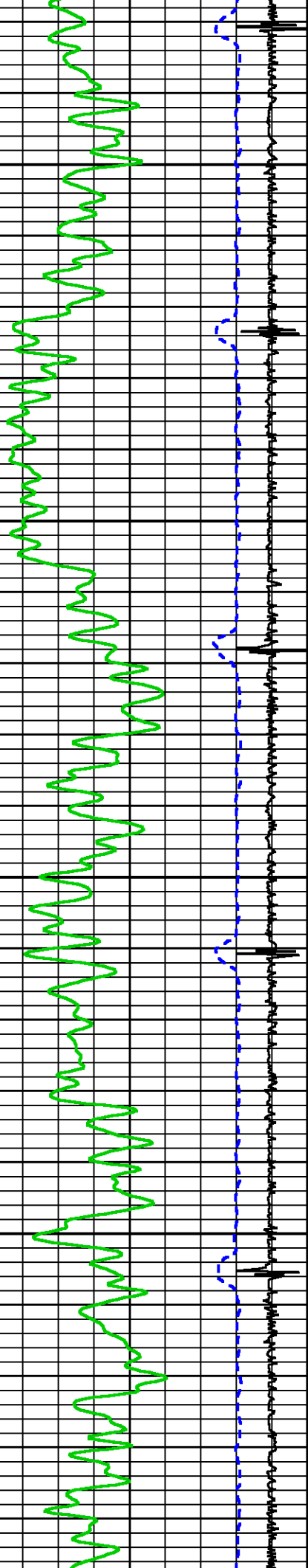
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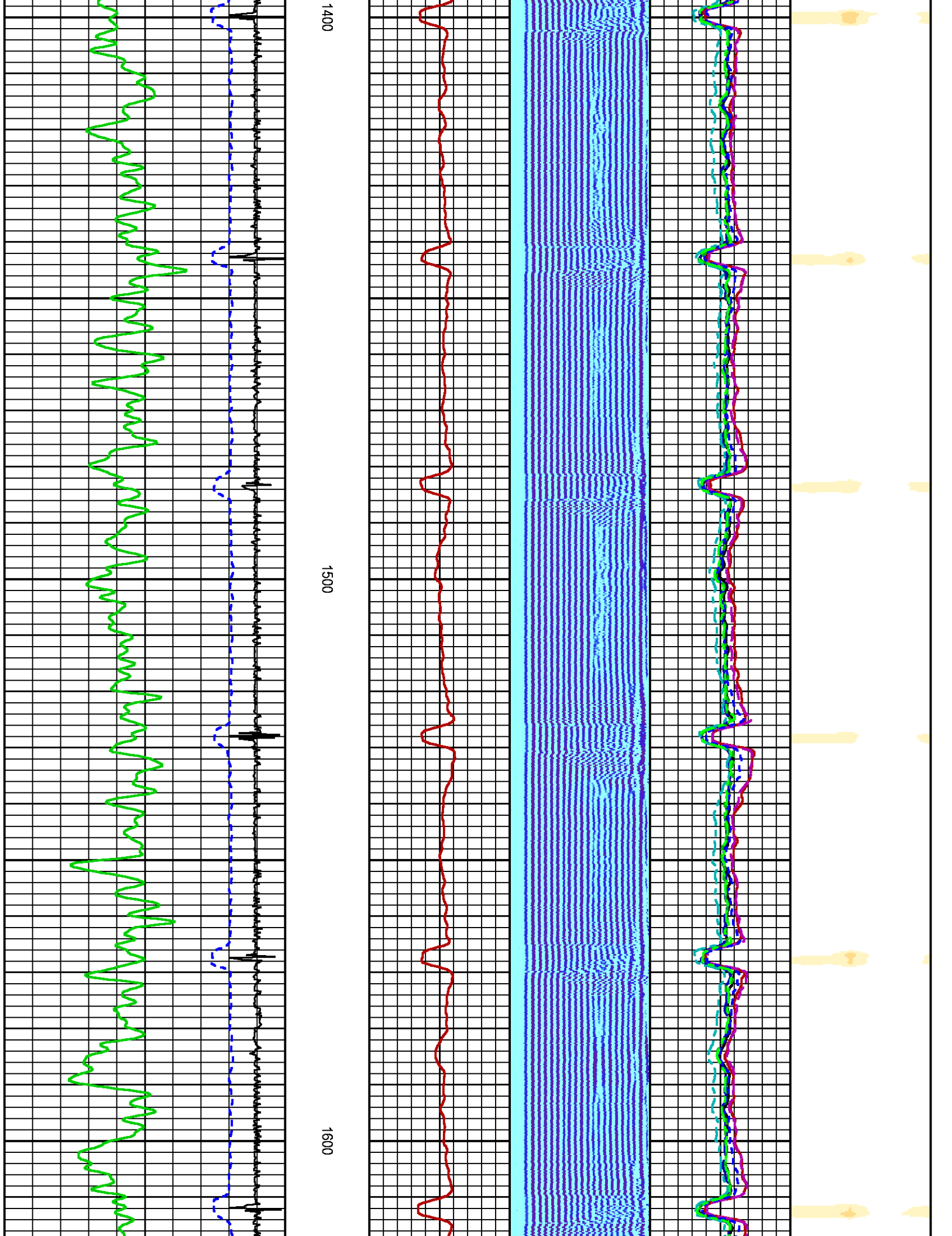


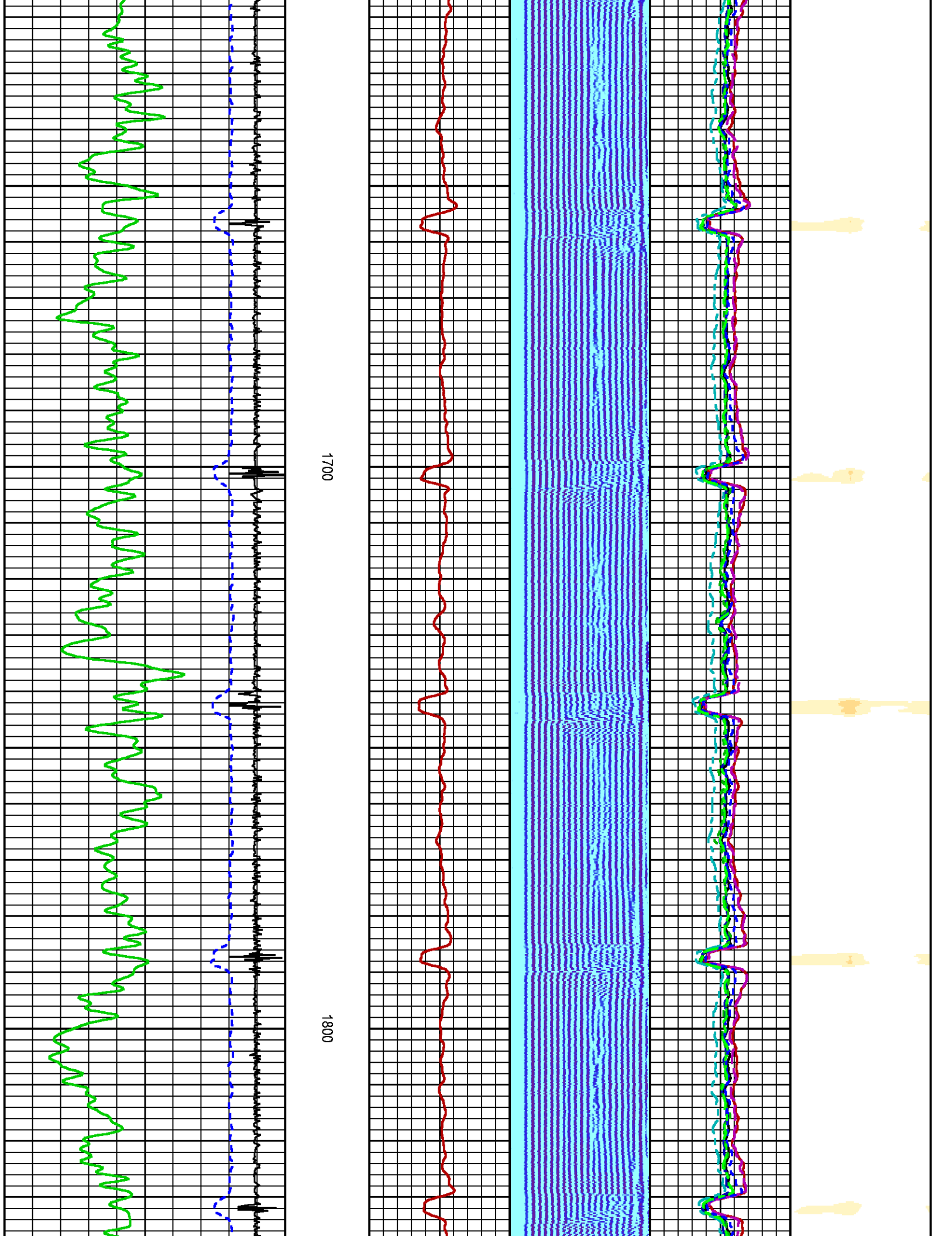


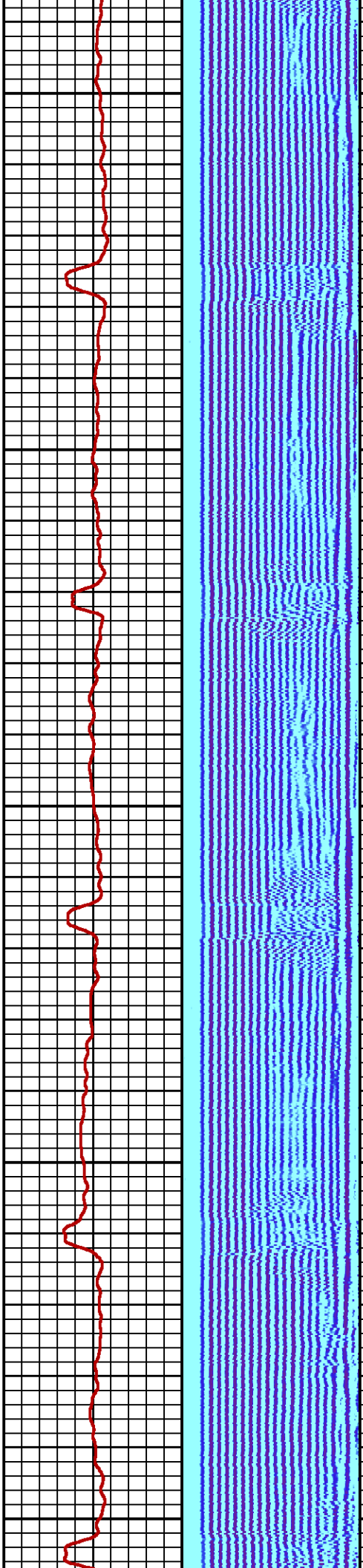
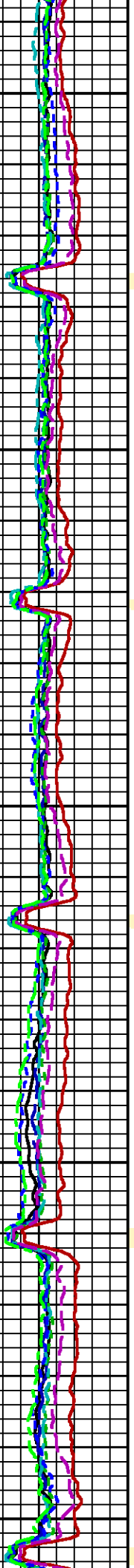
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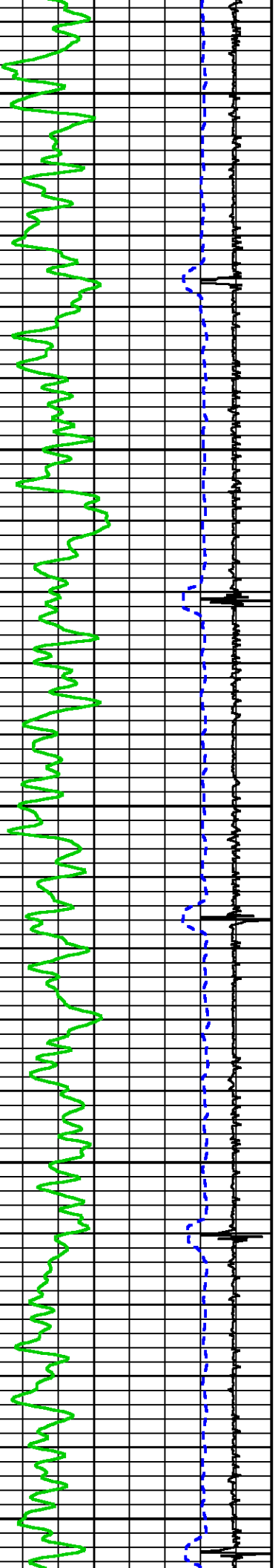


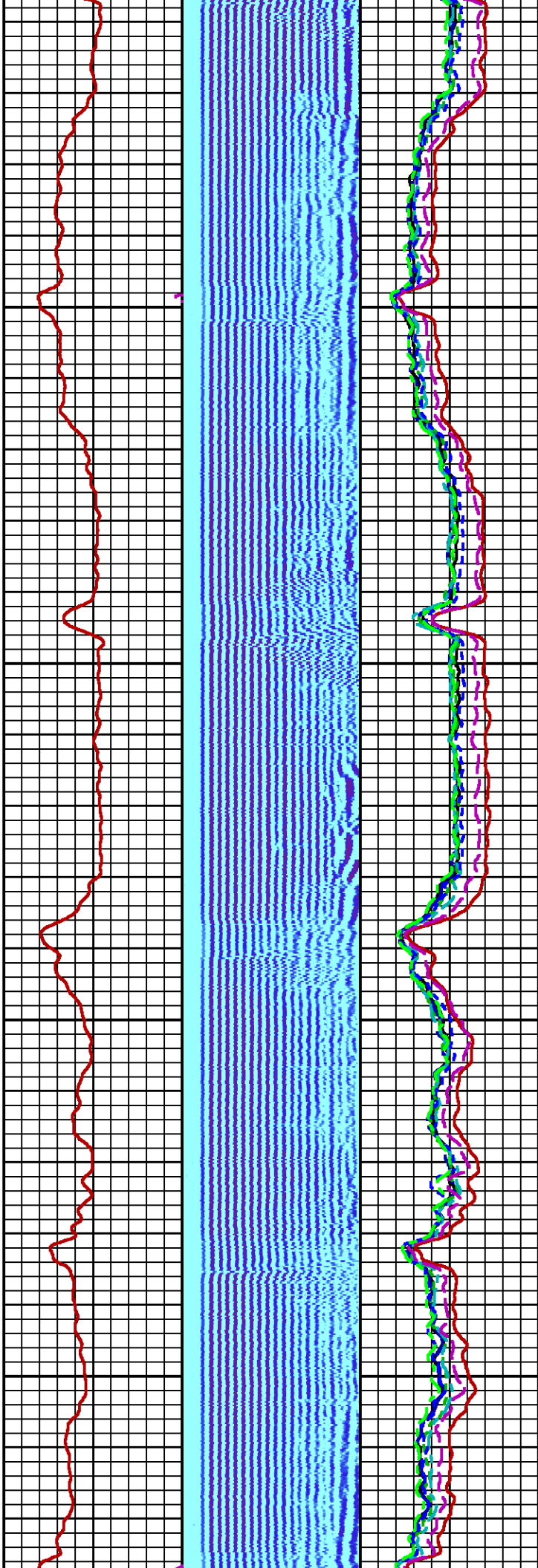
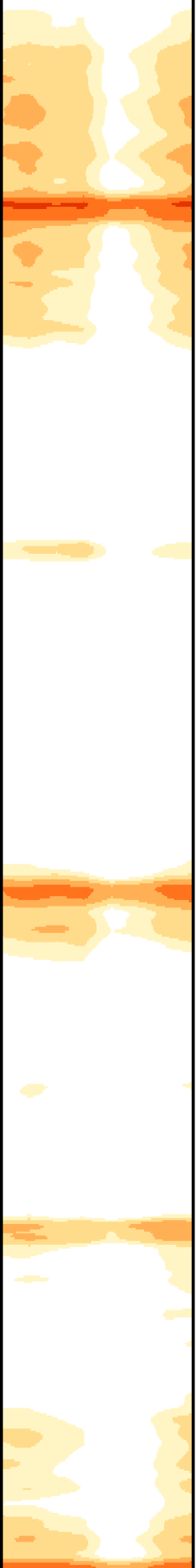




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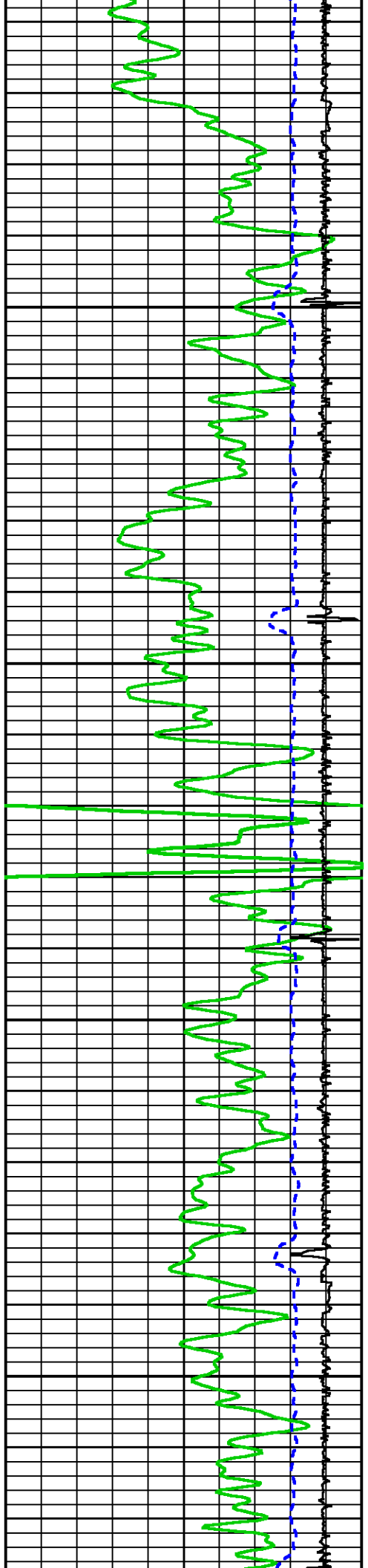
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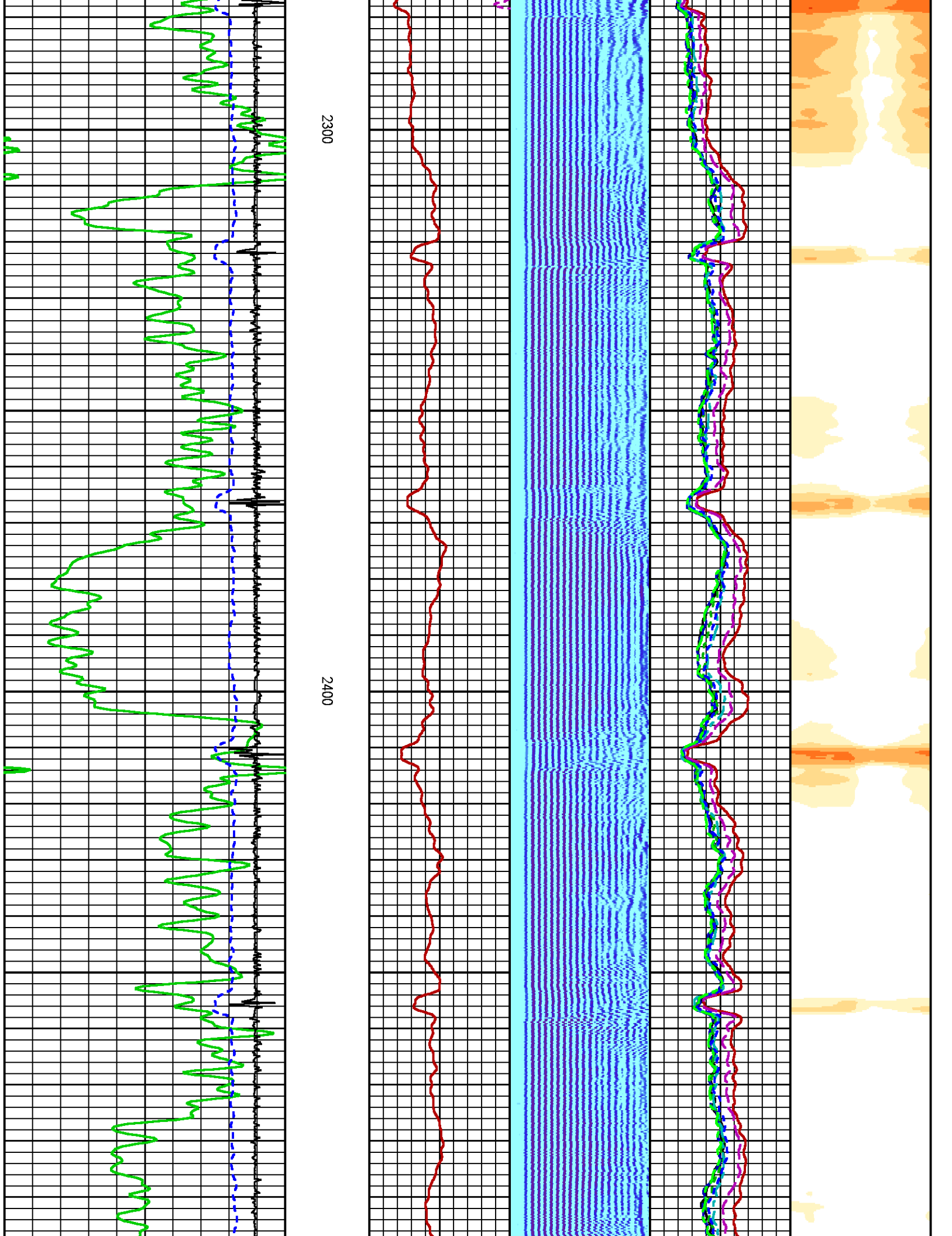


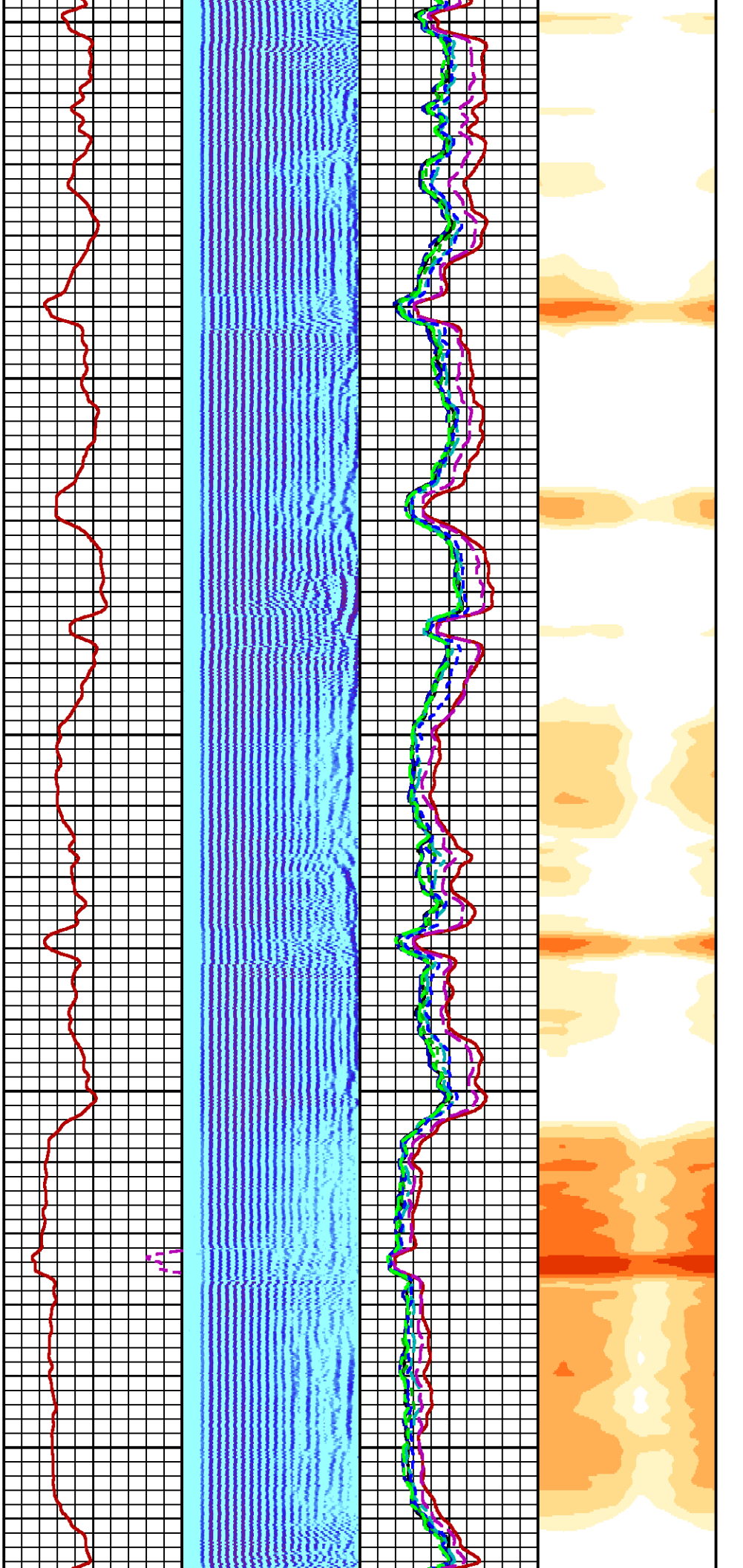


2100

2200



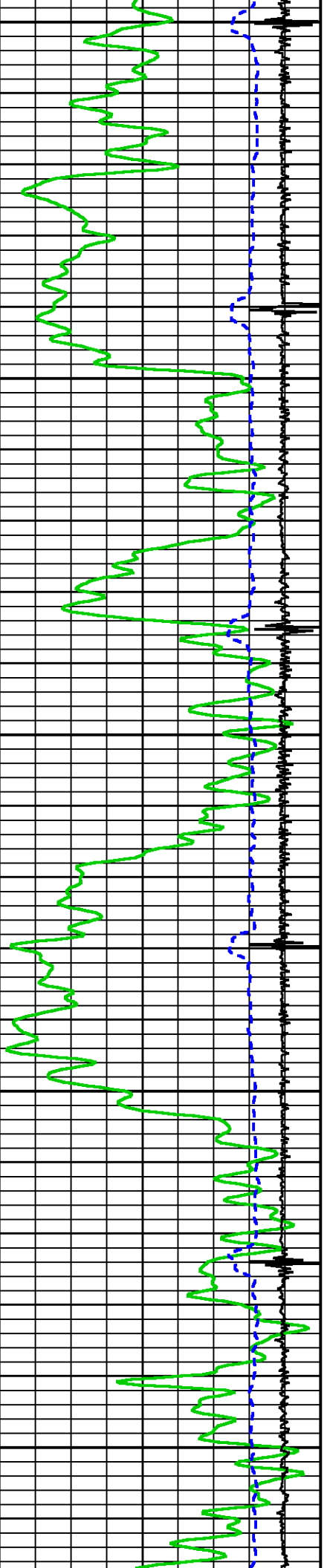


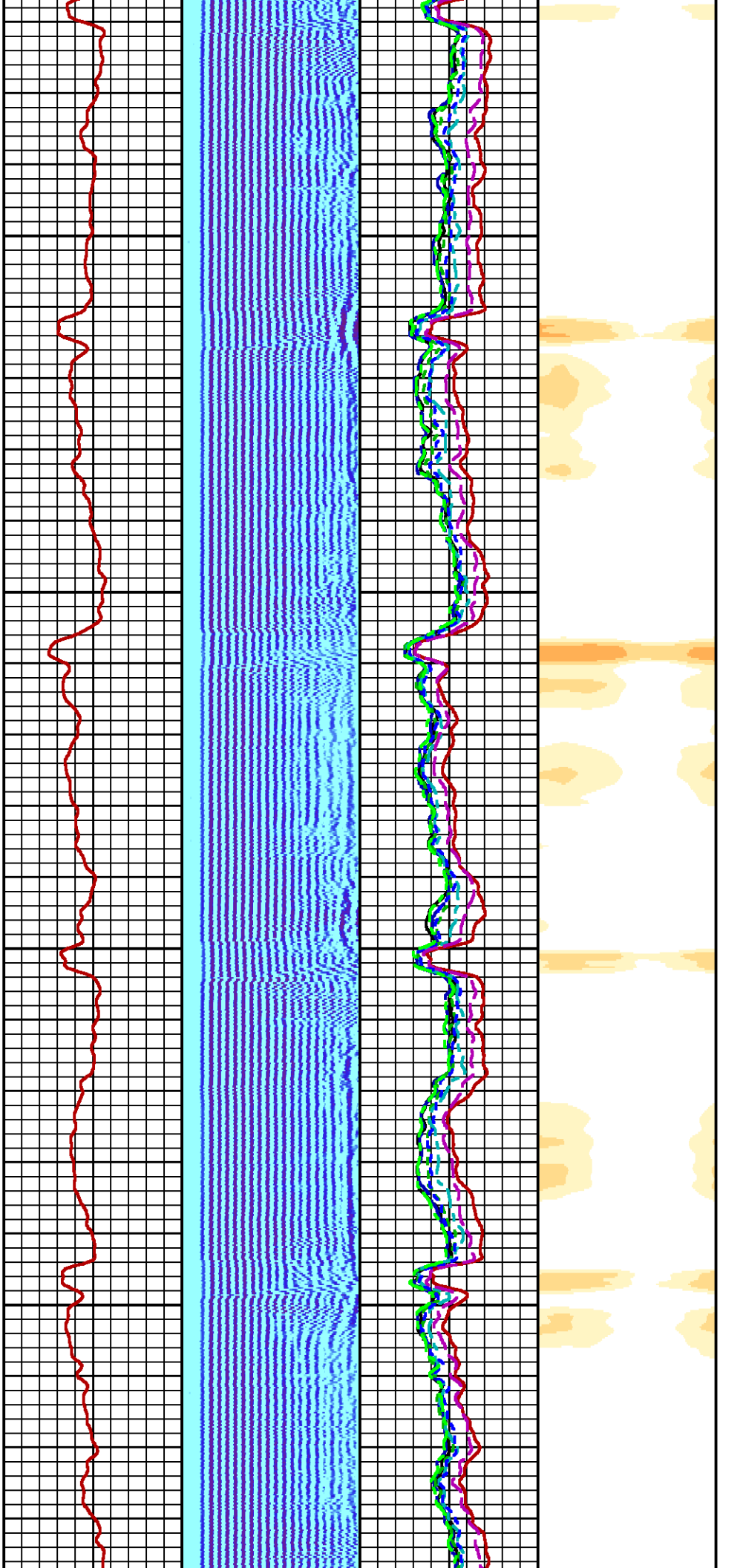


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2600

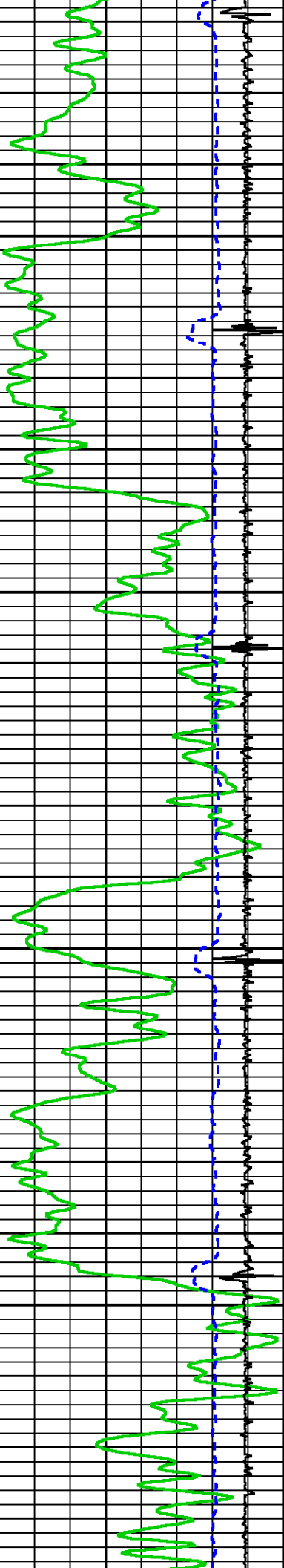
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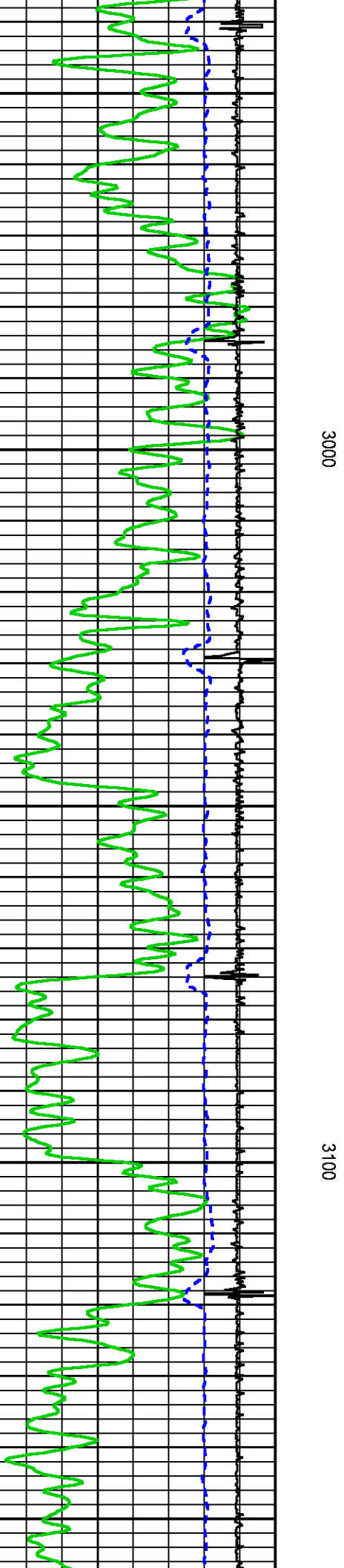
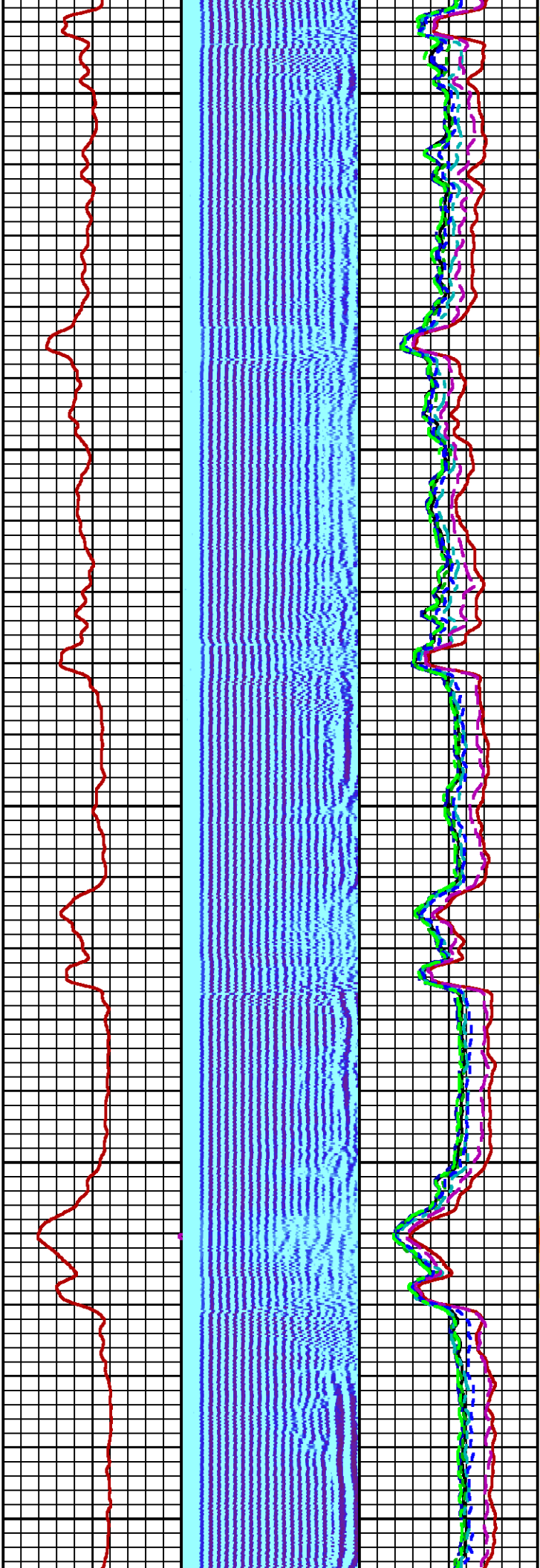
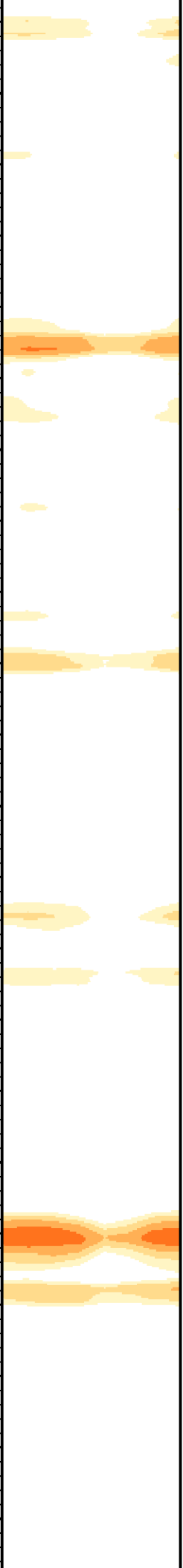


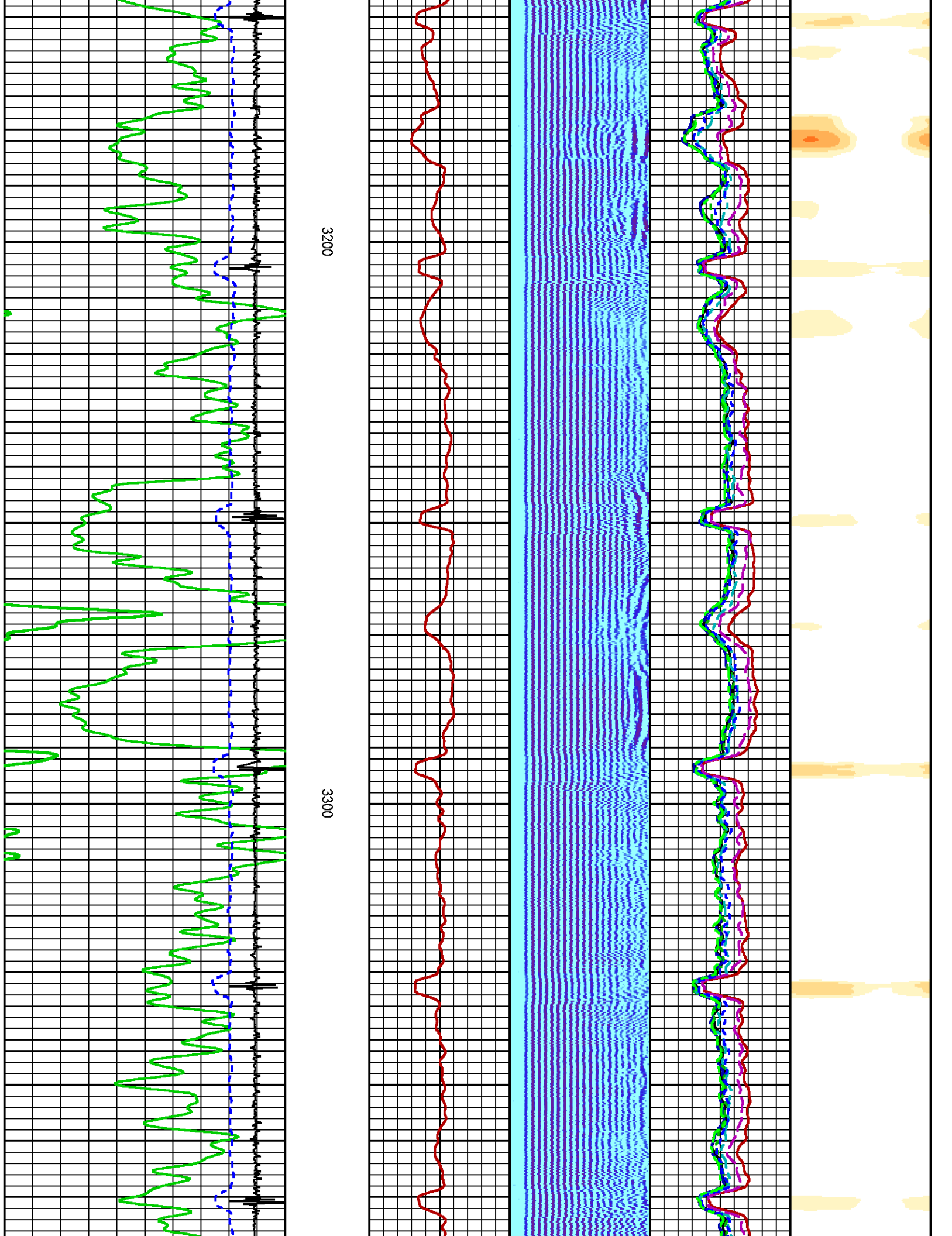


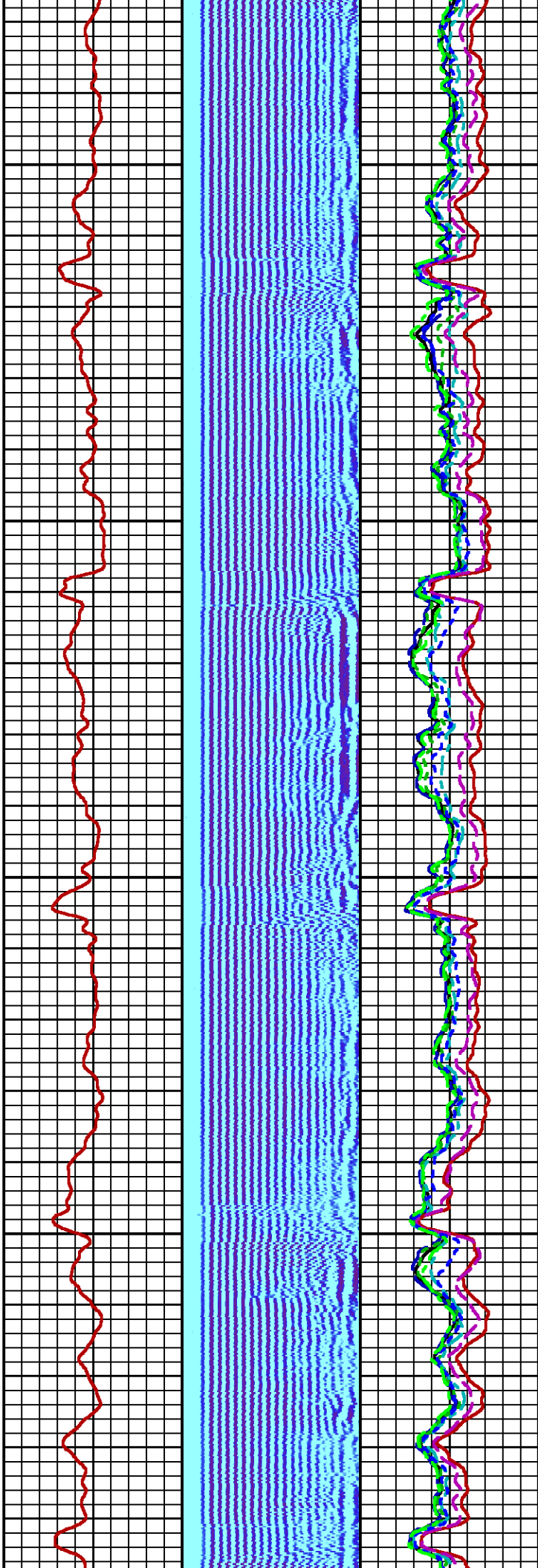
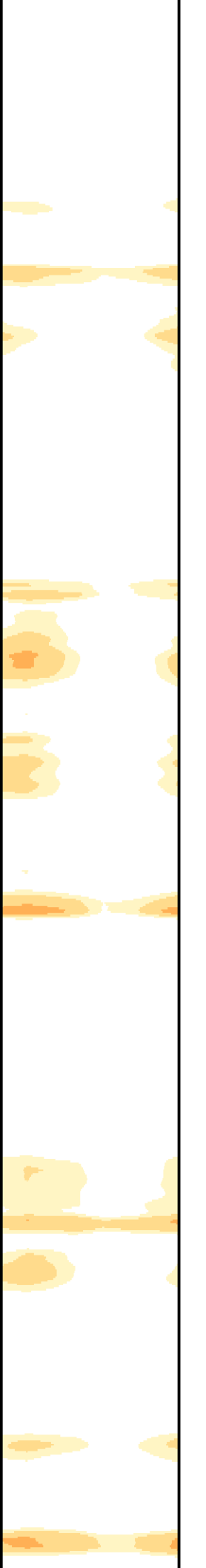
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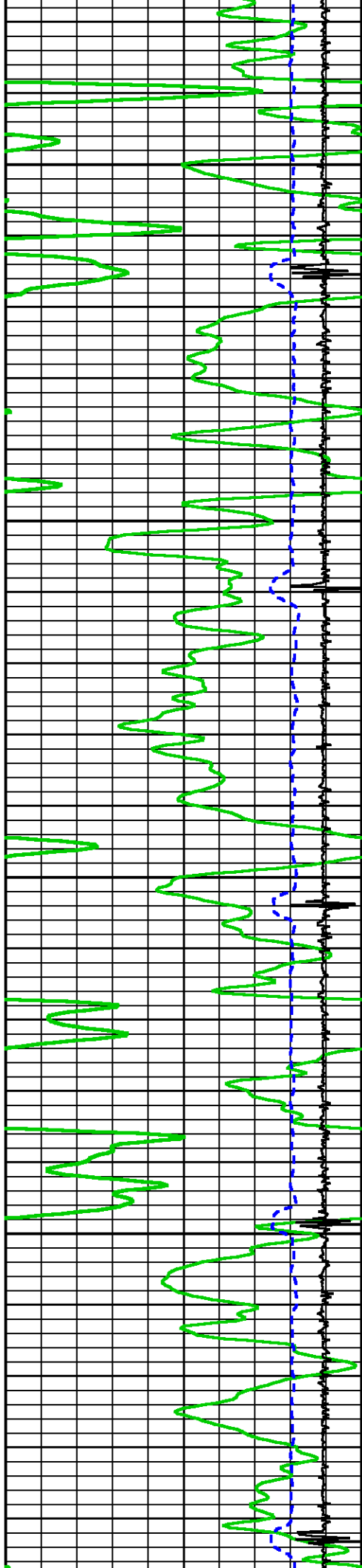


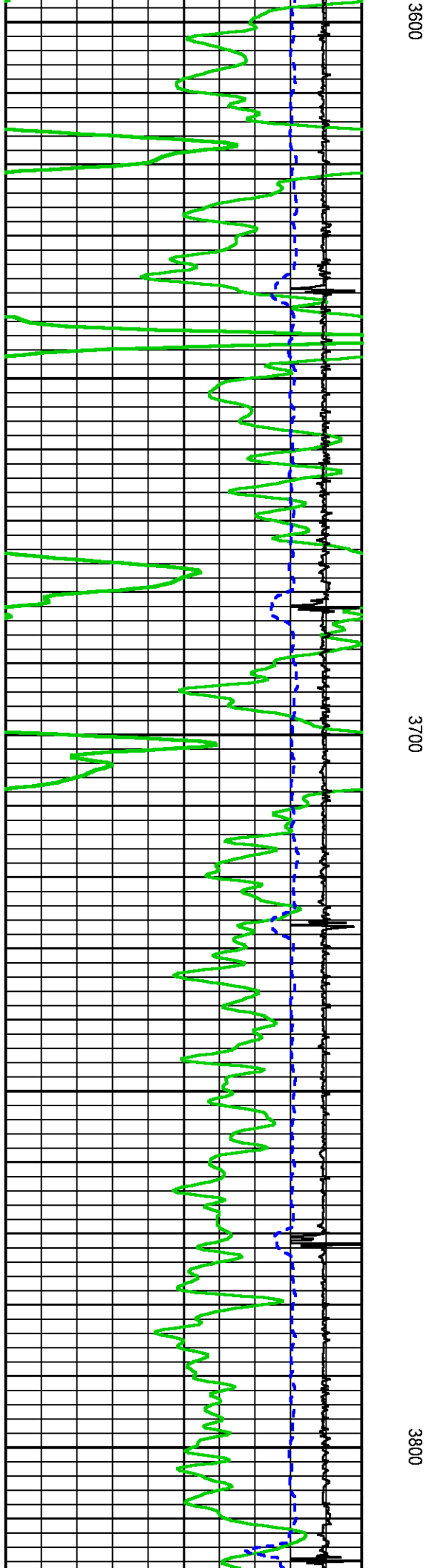
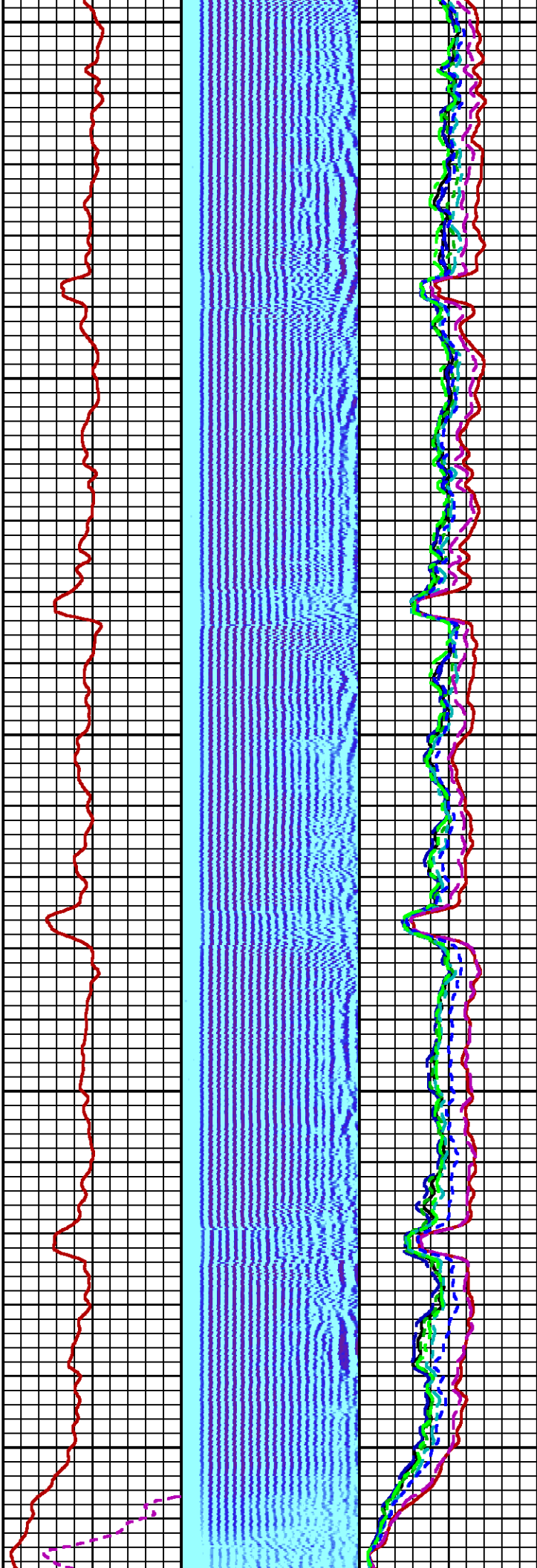
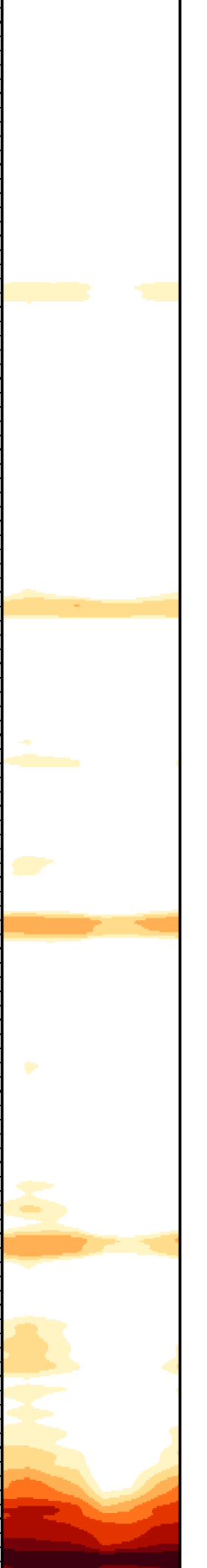


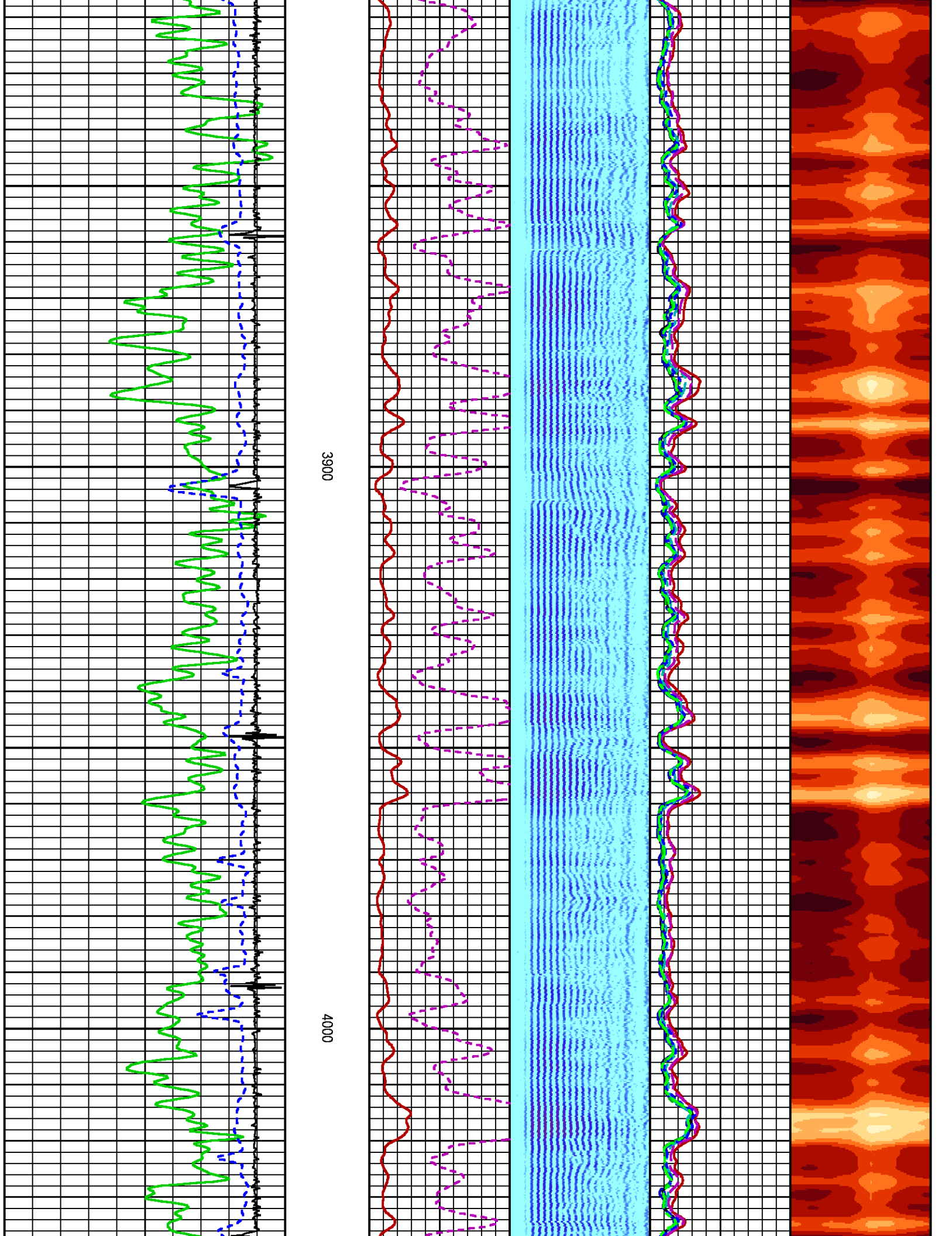


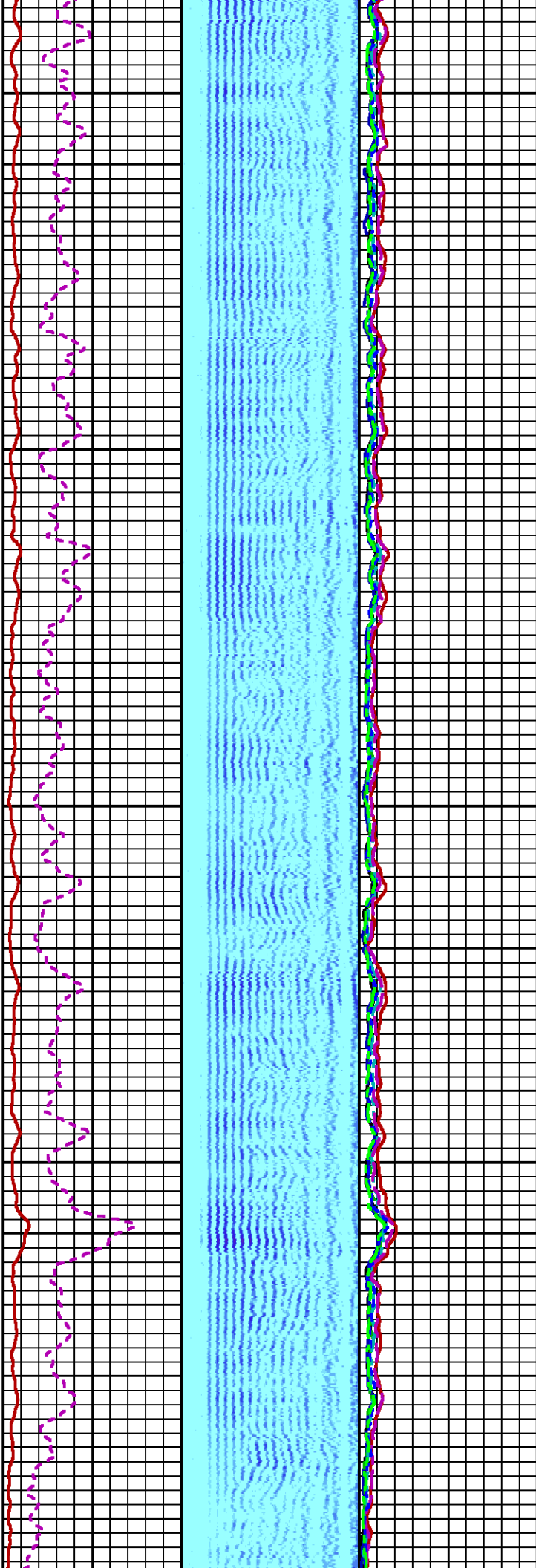
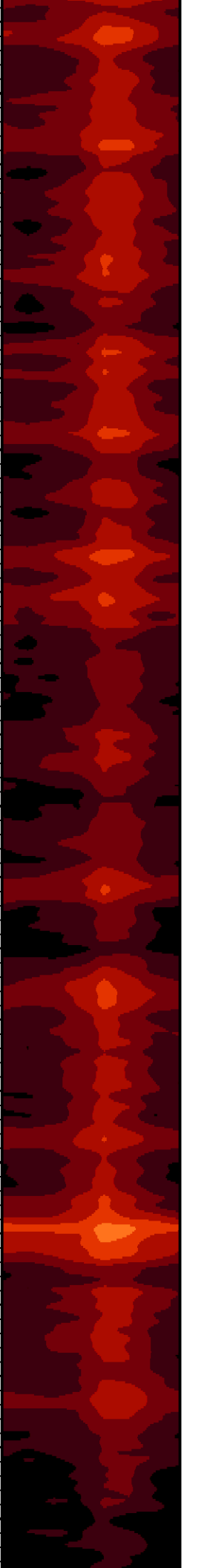
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3500



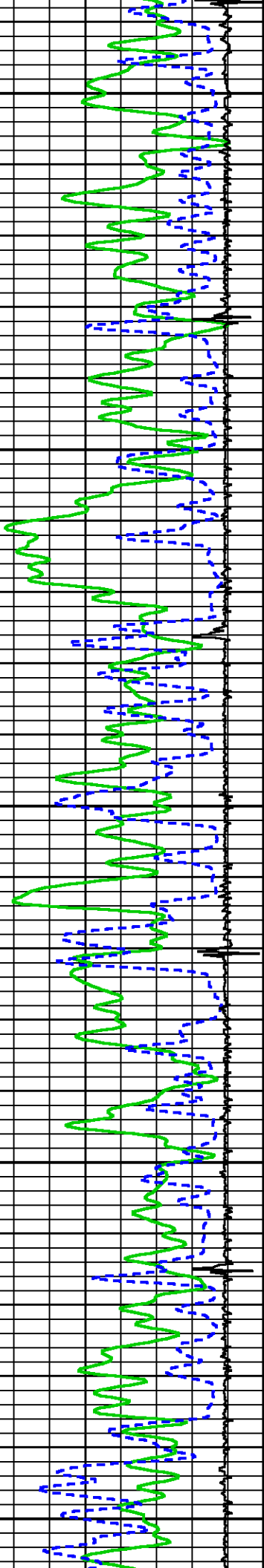


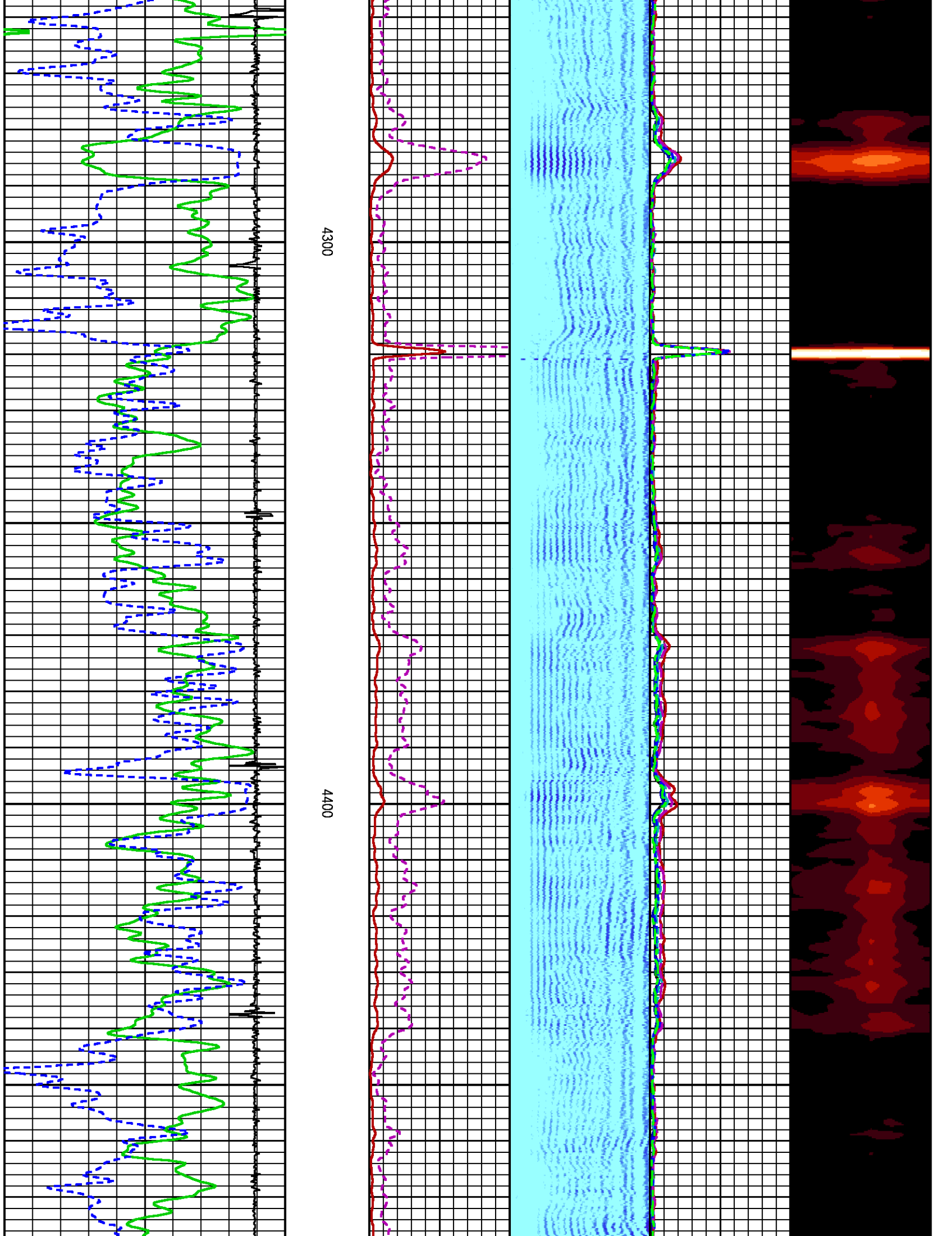


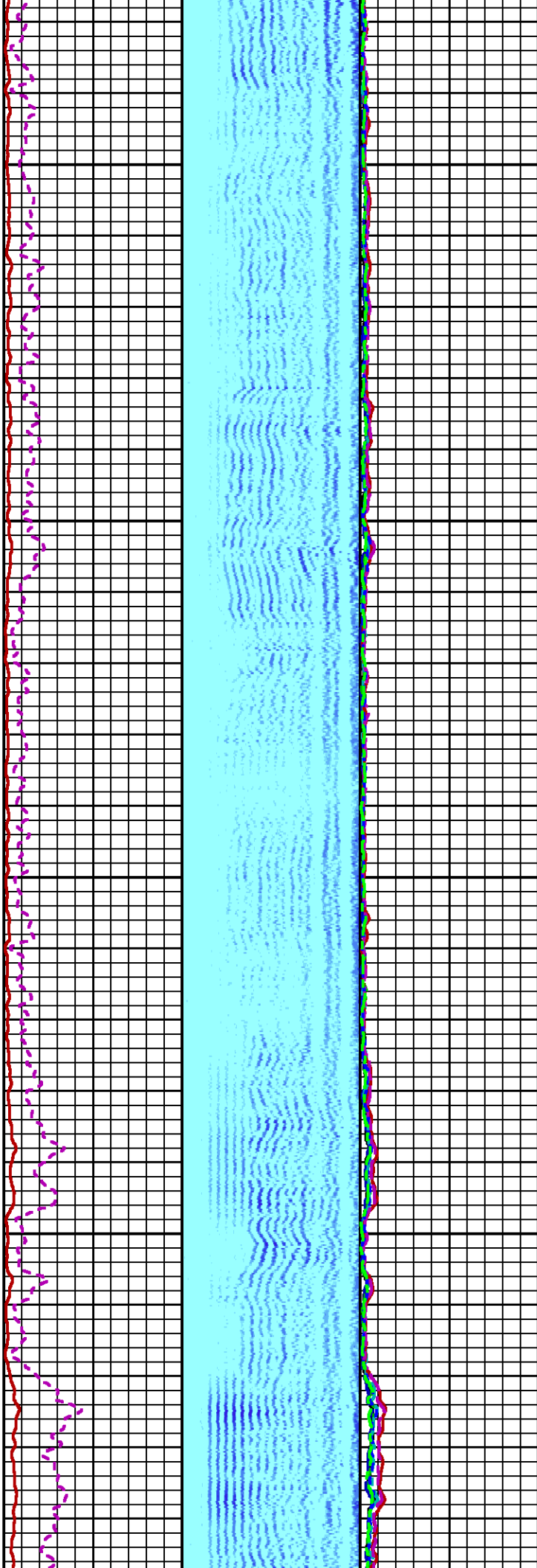


4100

4200

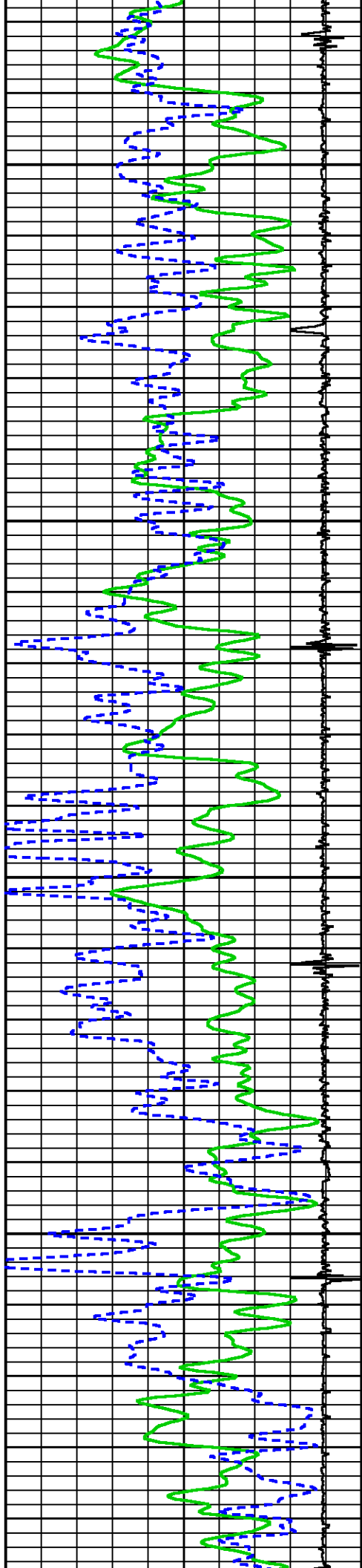


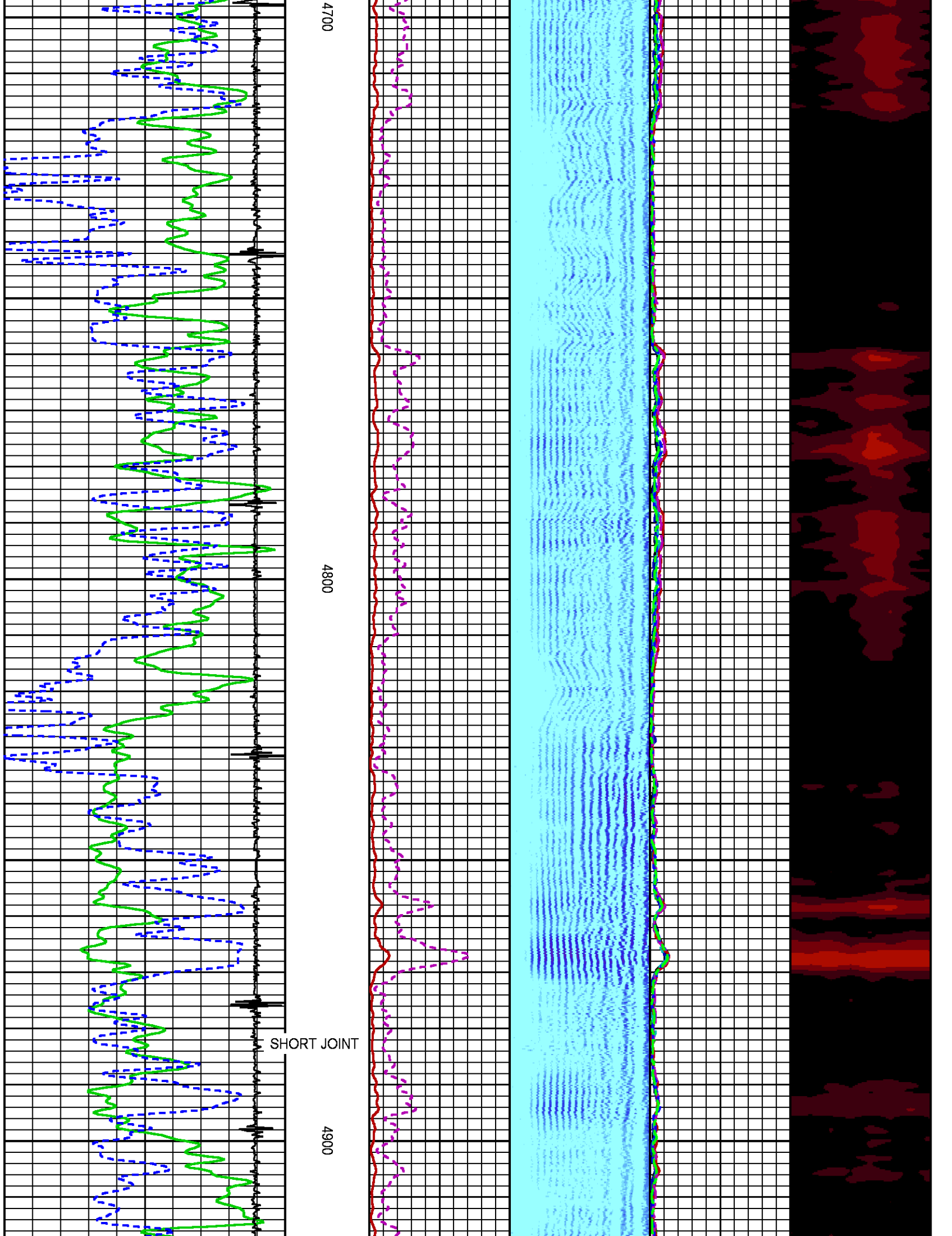


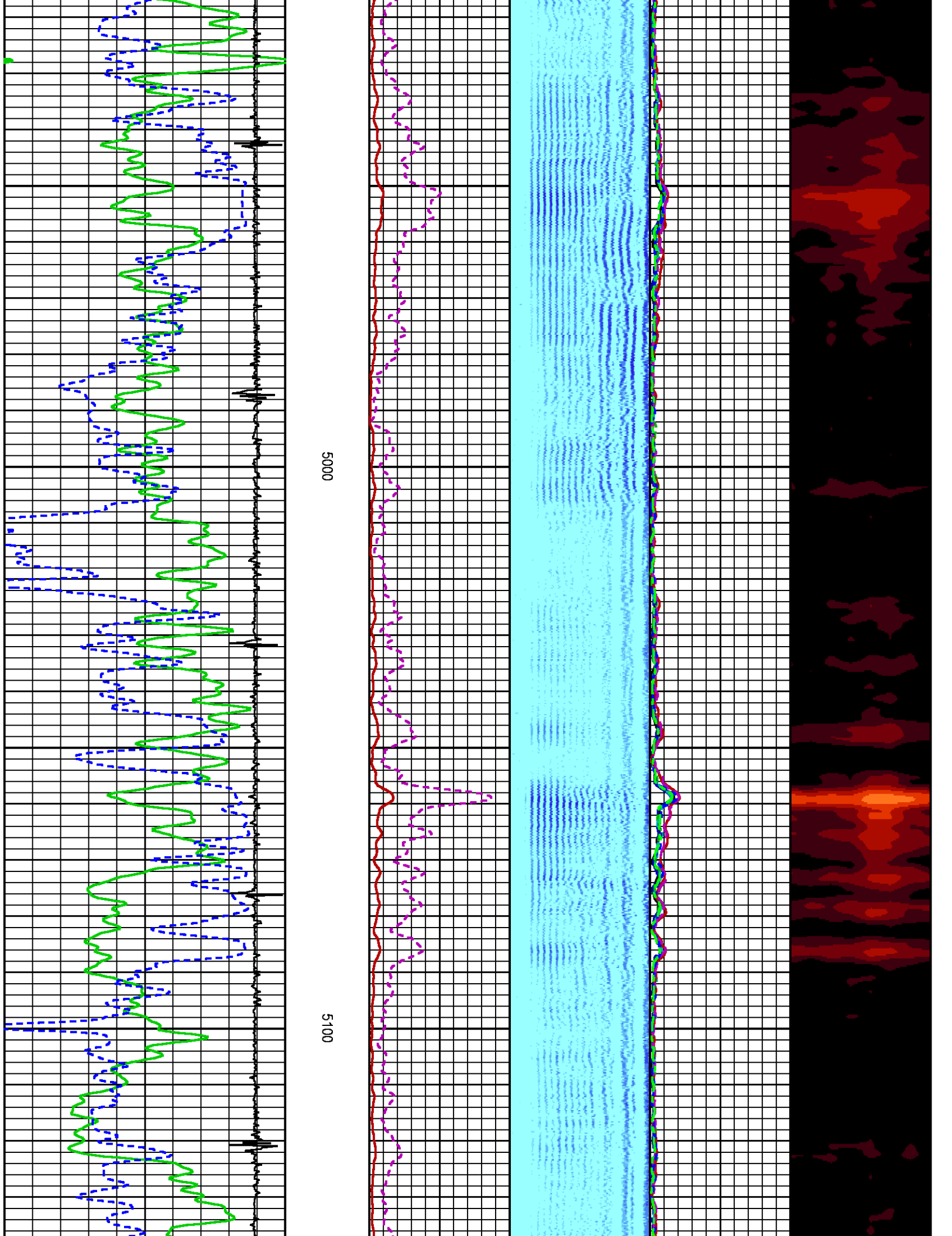


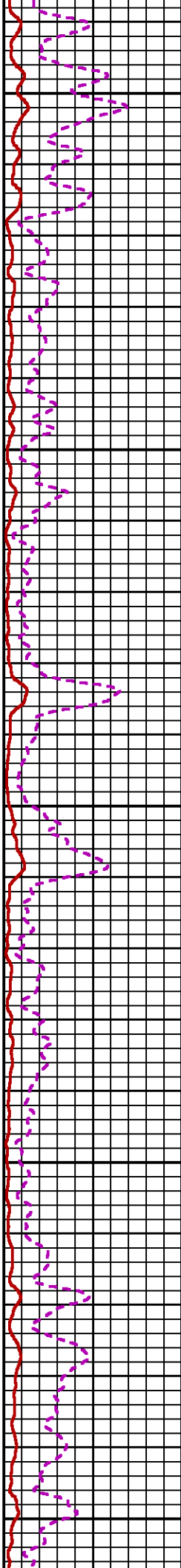
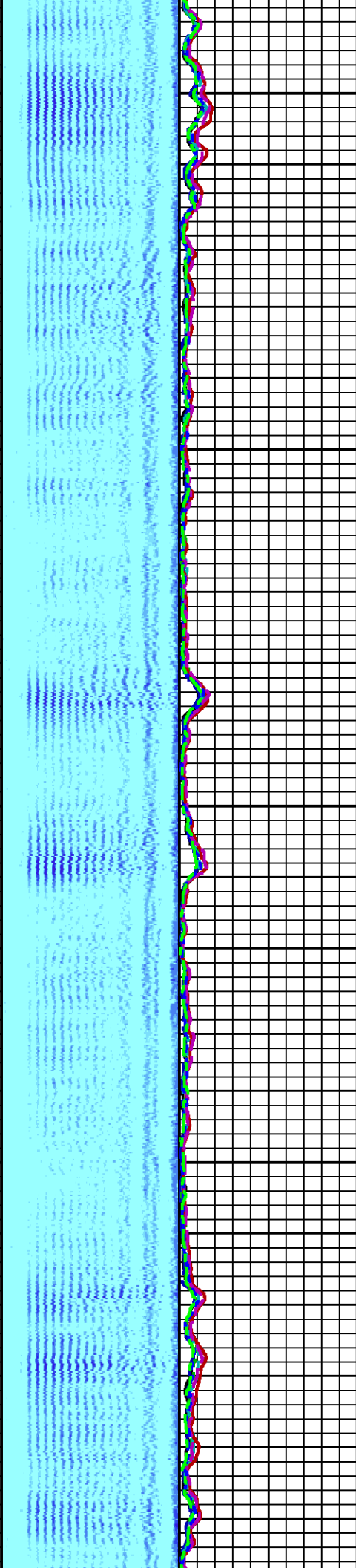
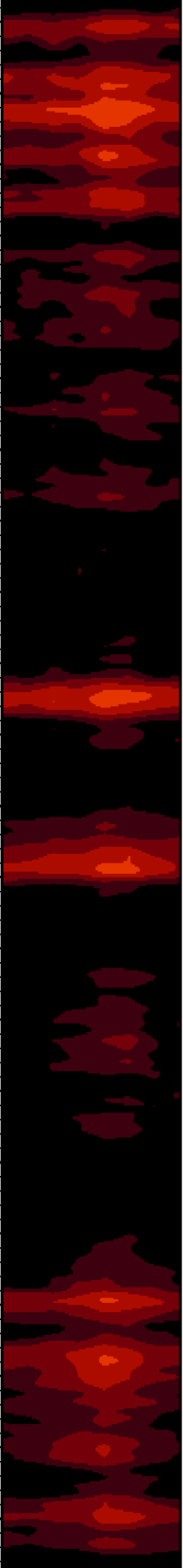
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4600



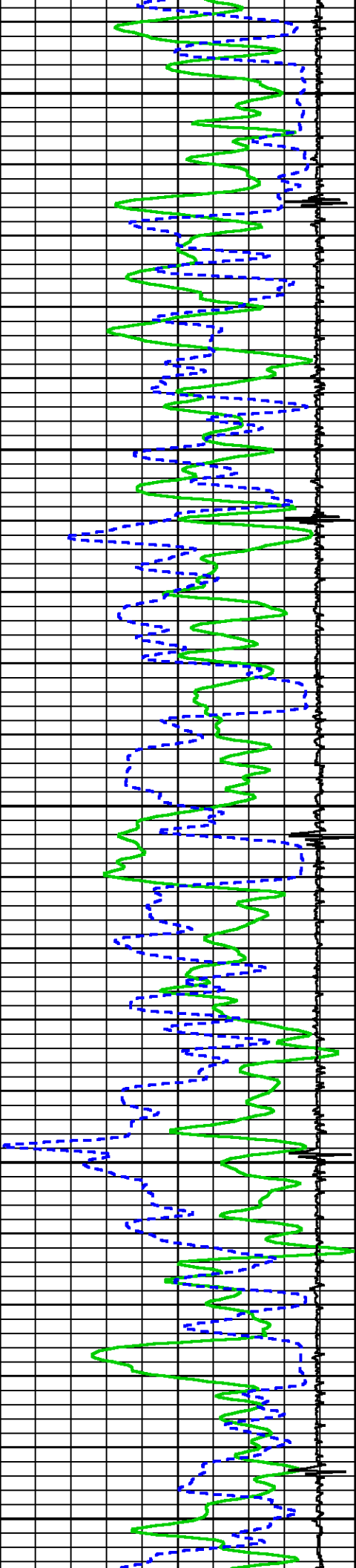


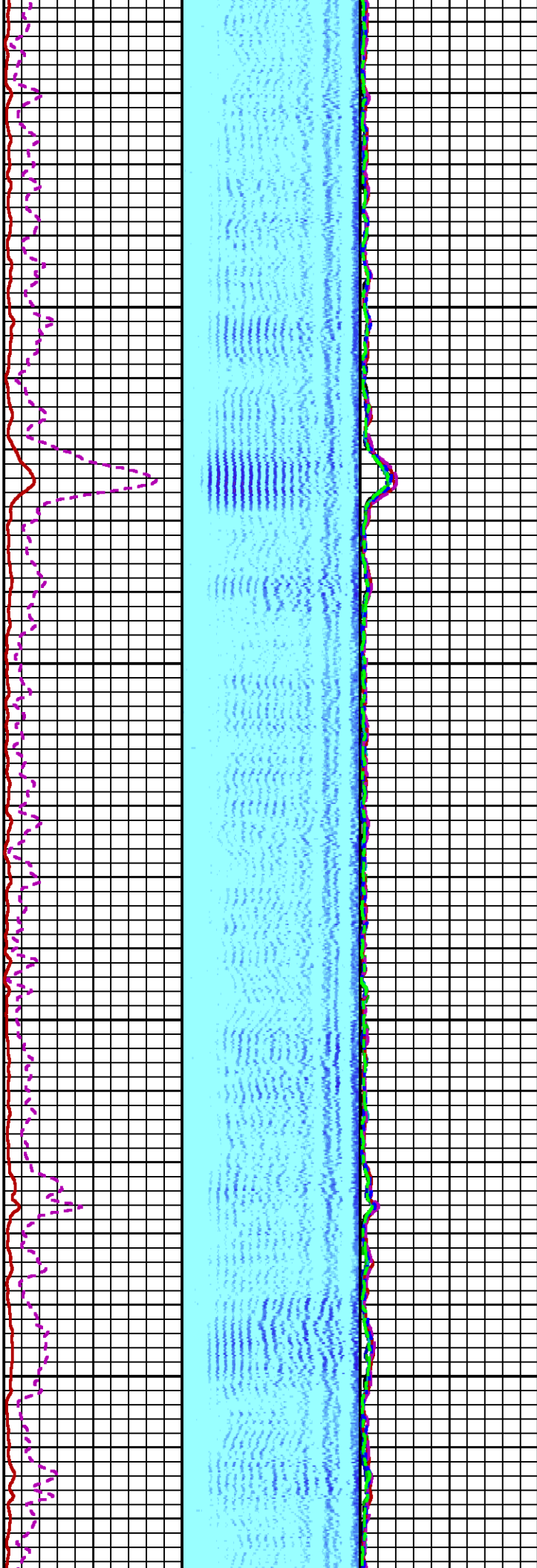




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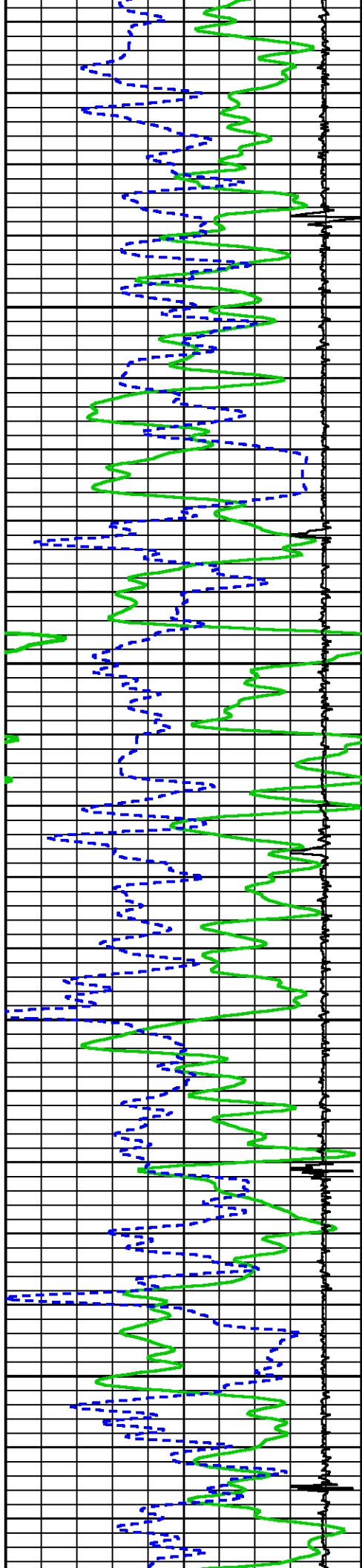
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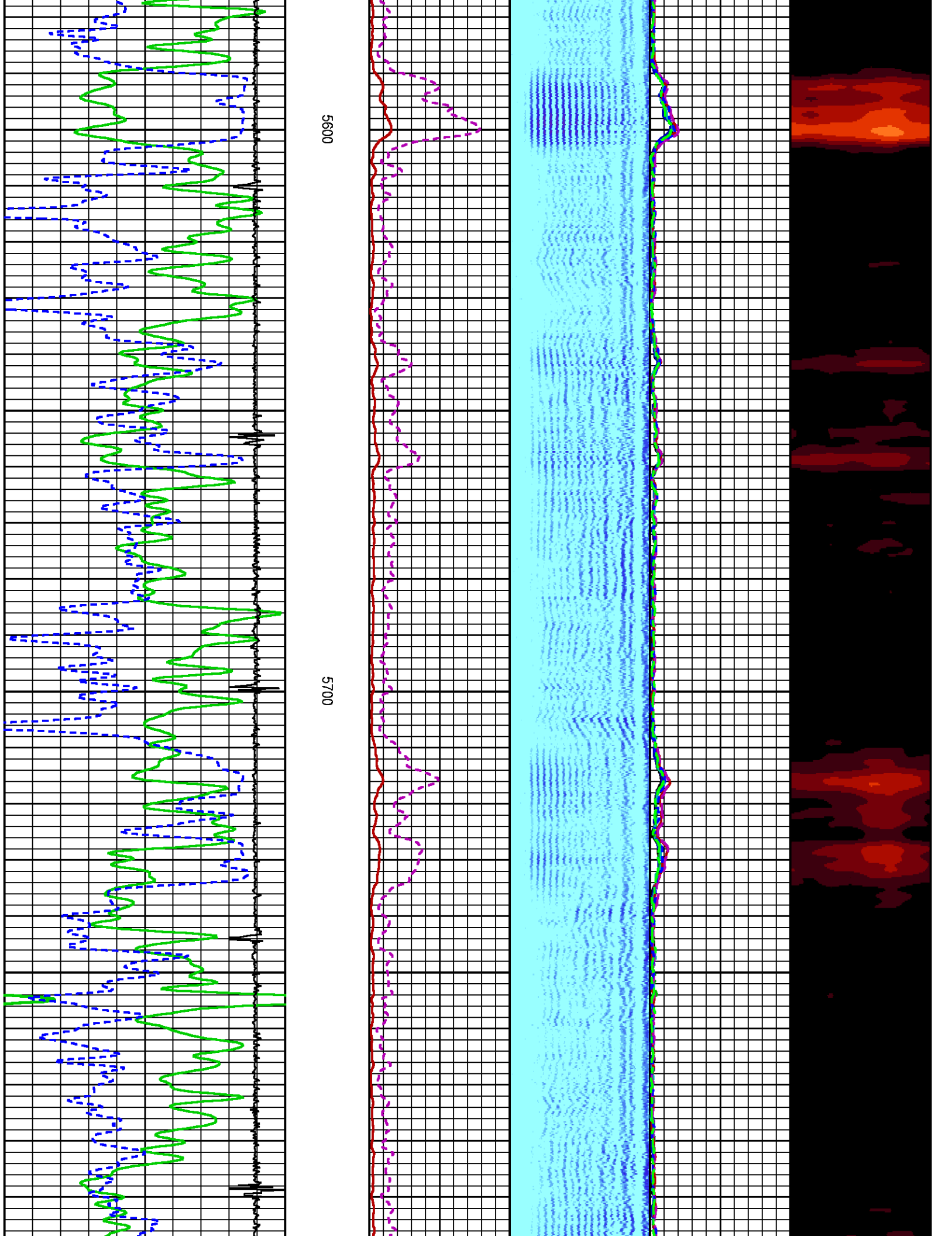


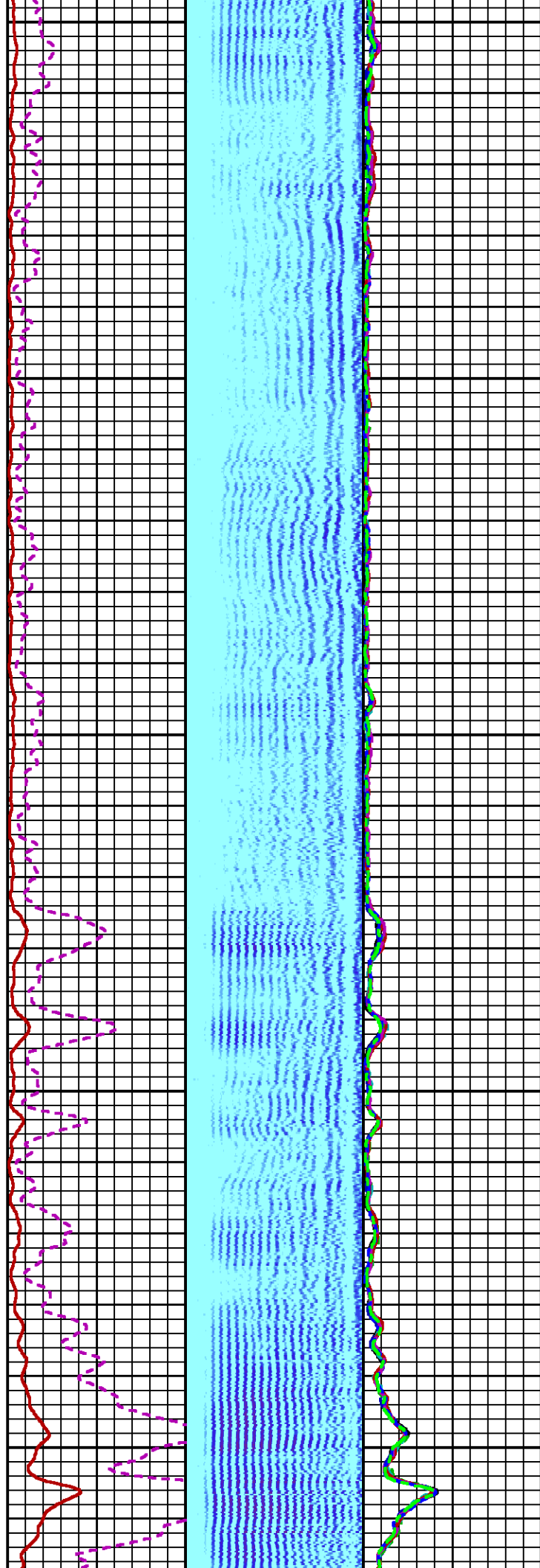


5400

5500



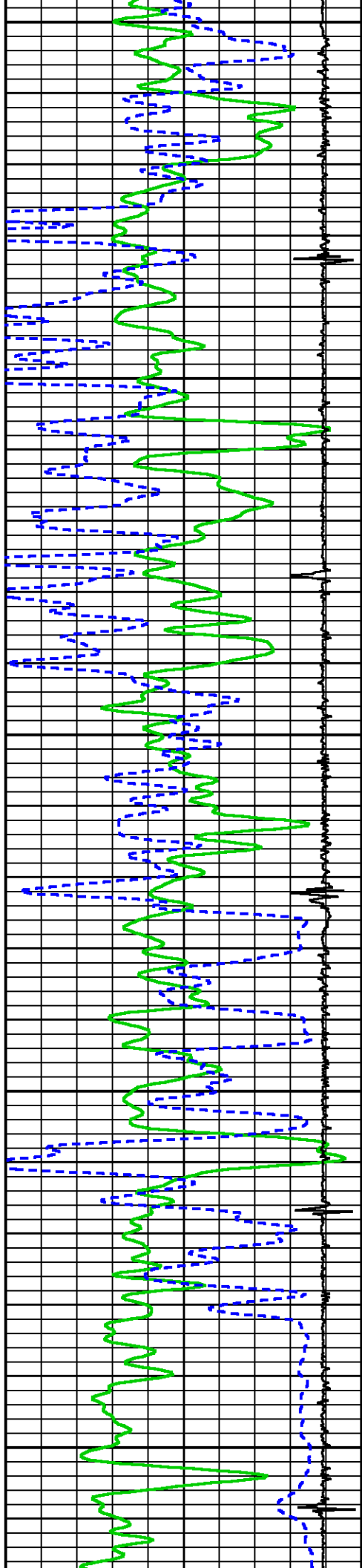


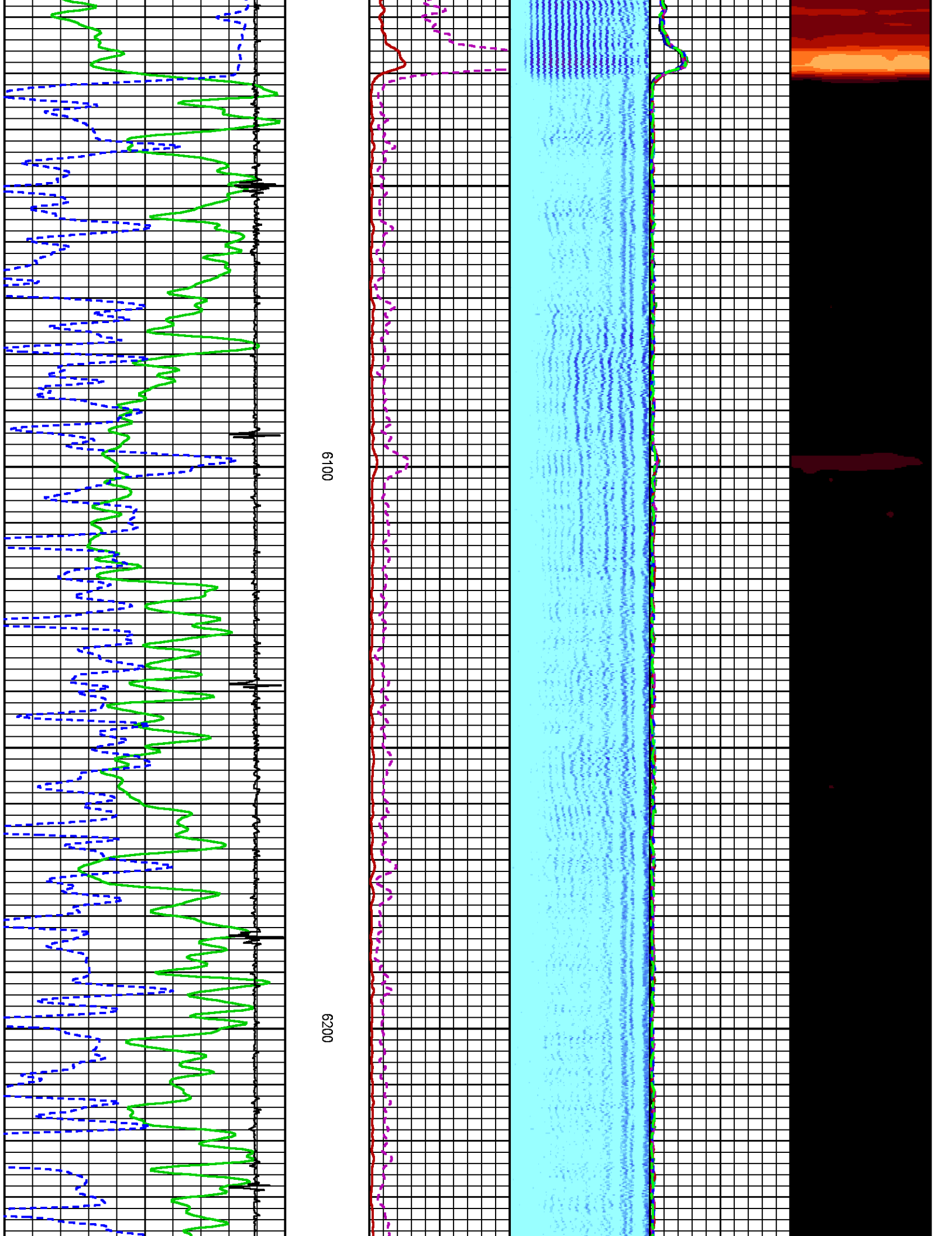


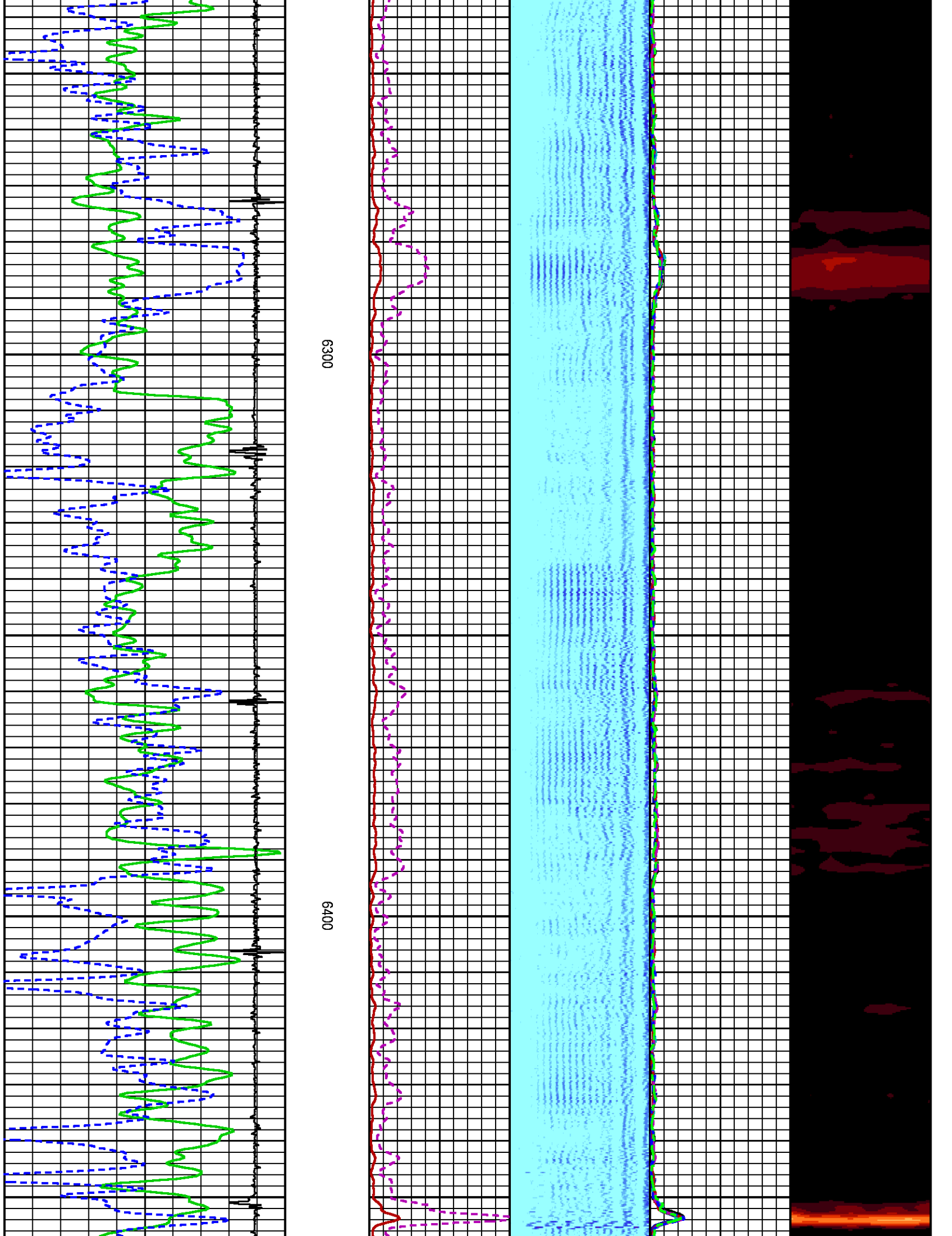
5800

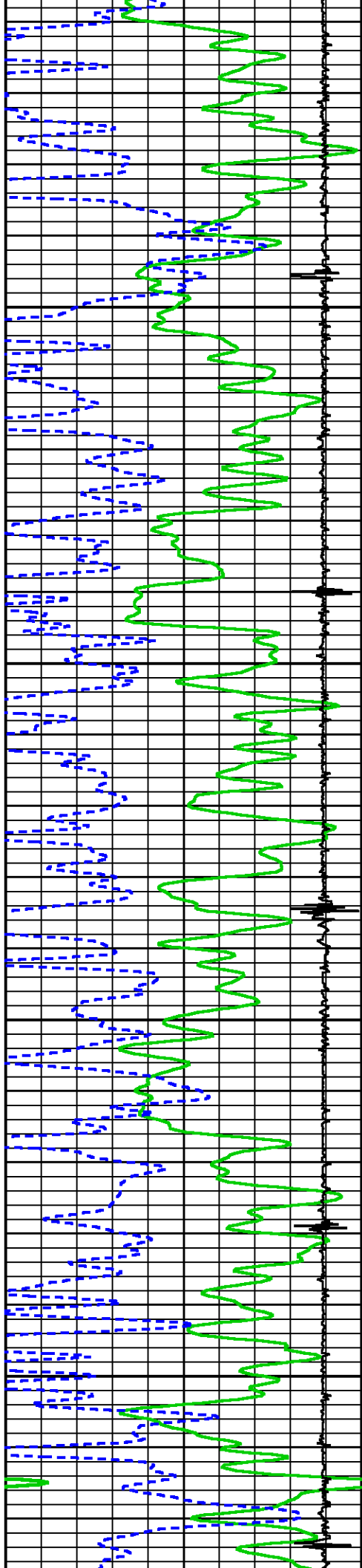
5900

6000



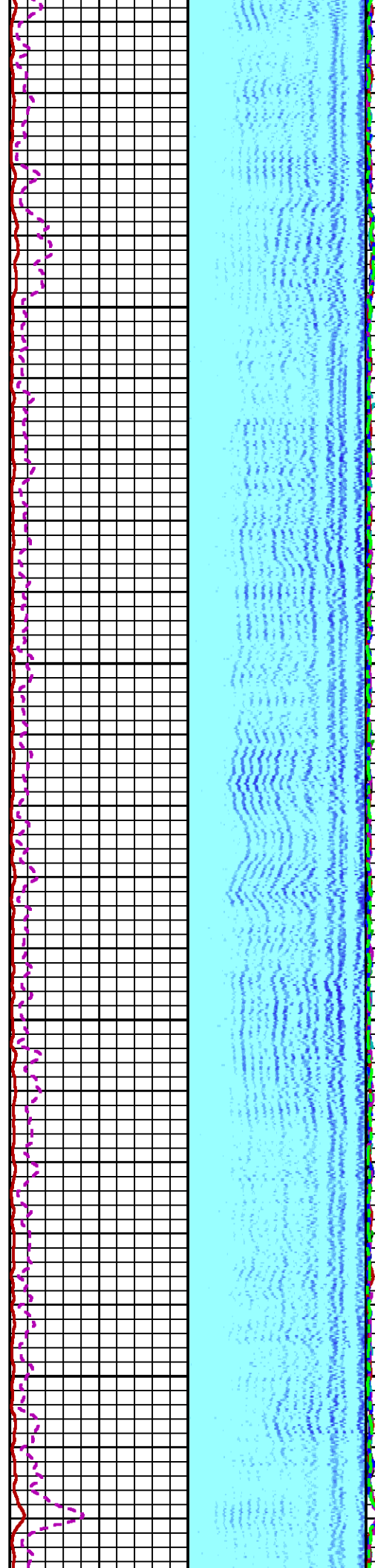


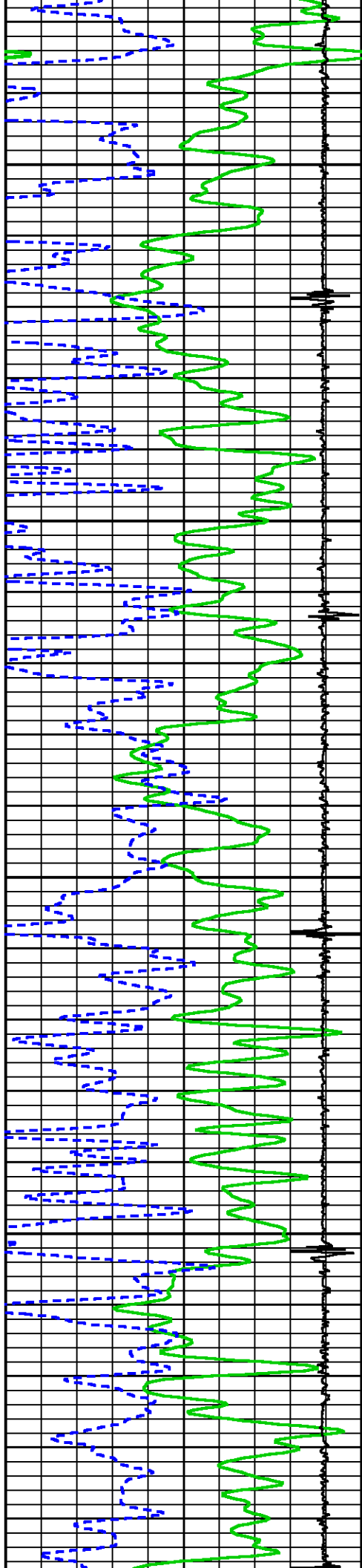




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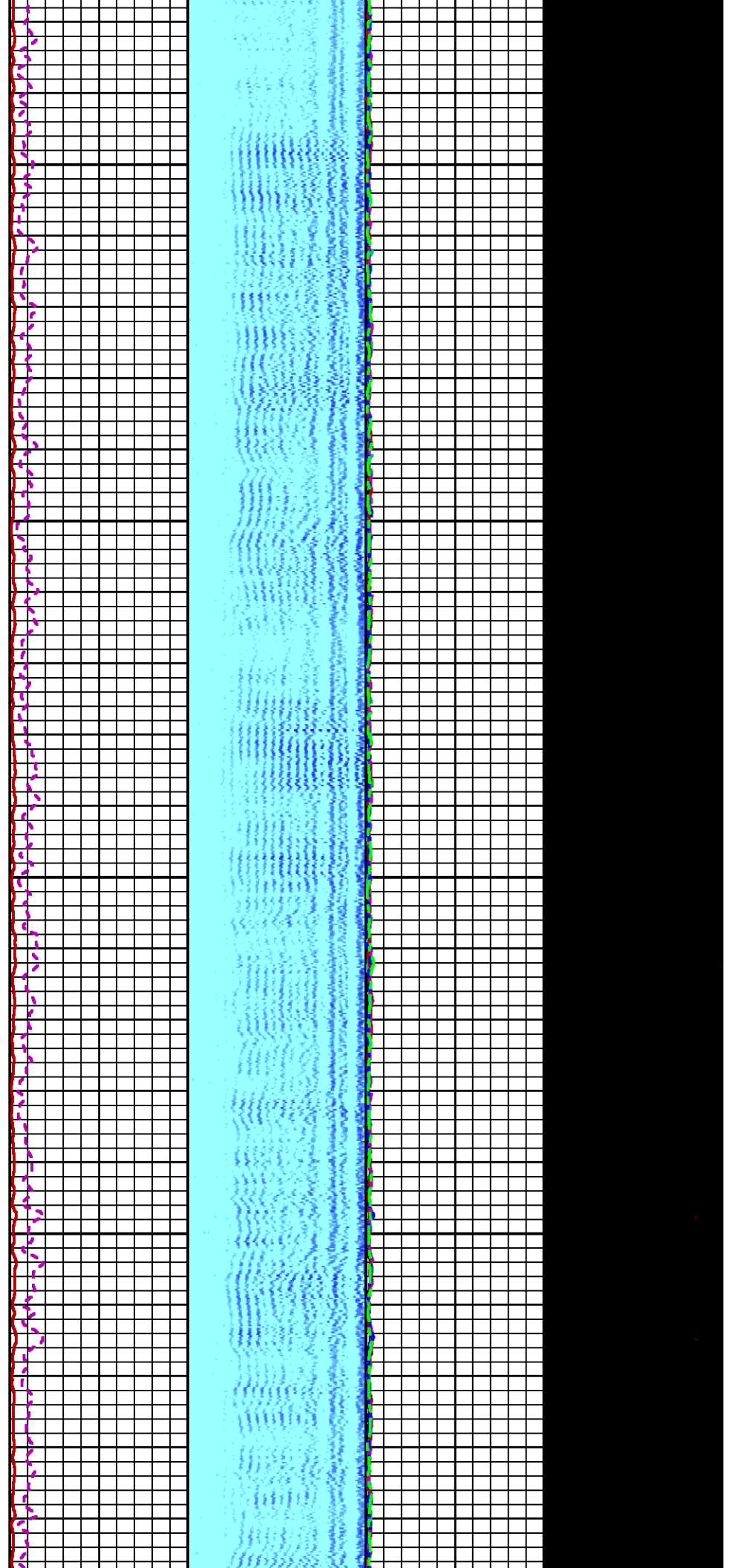
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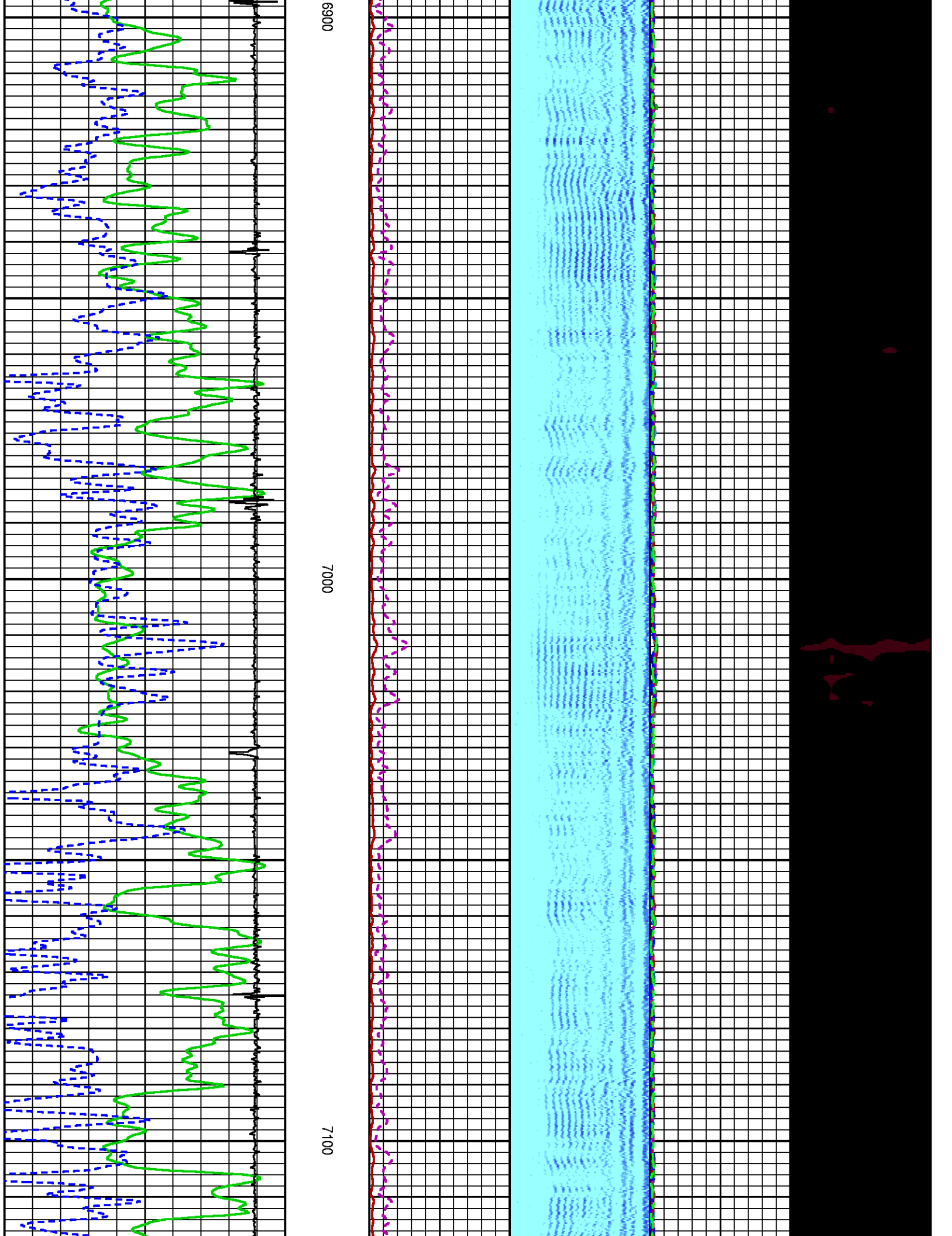


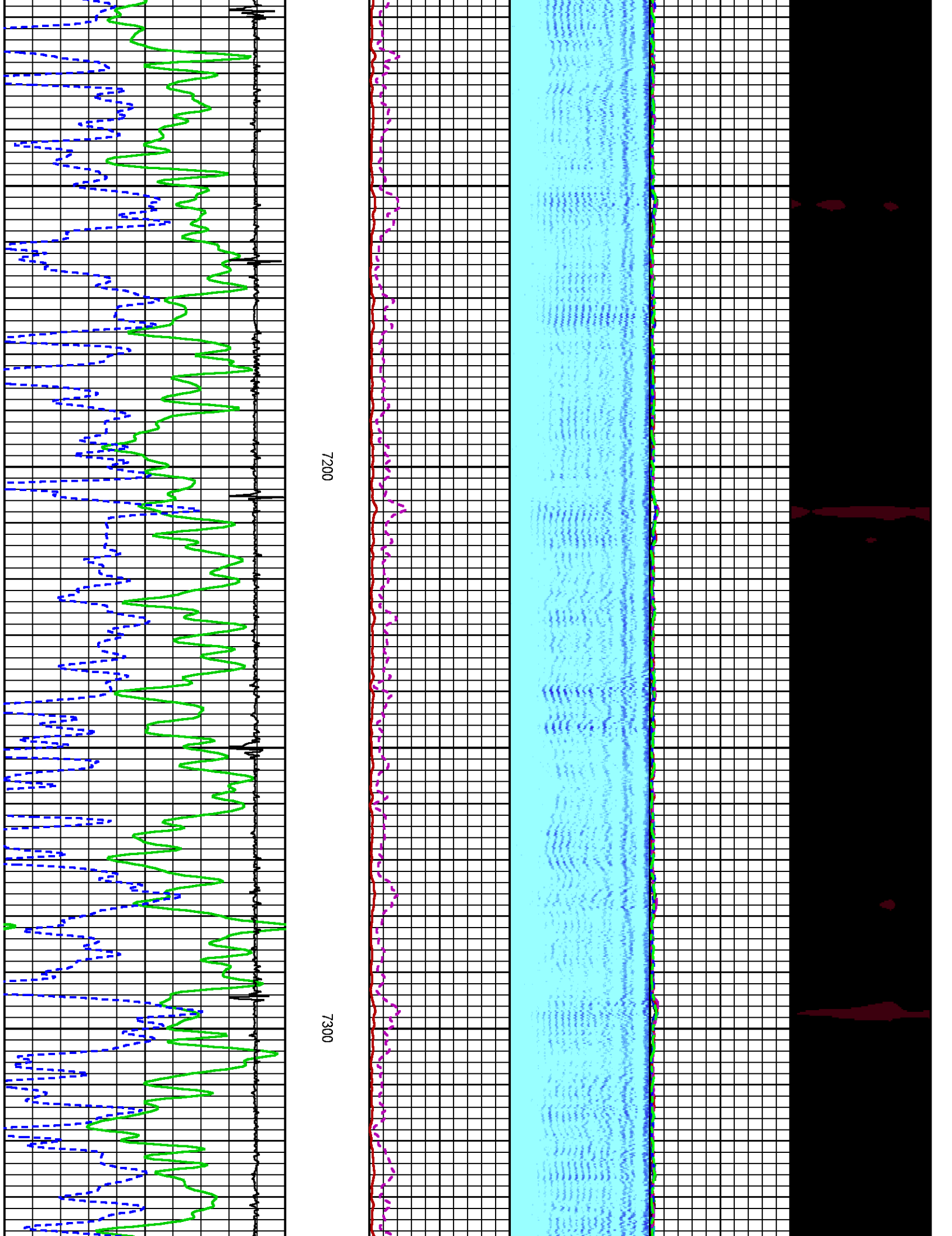


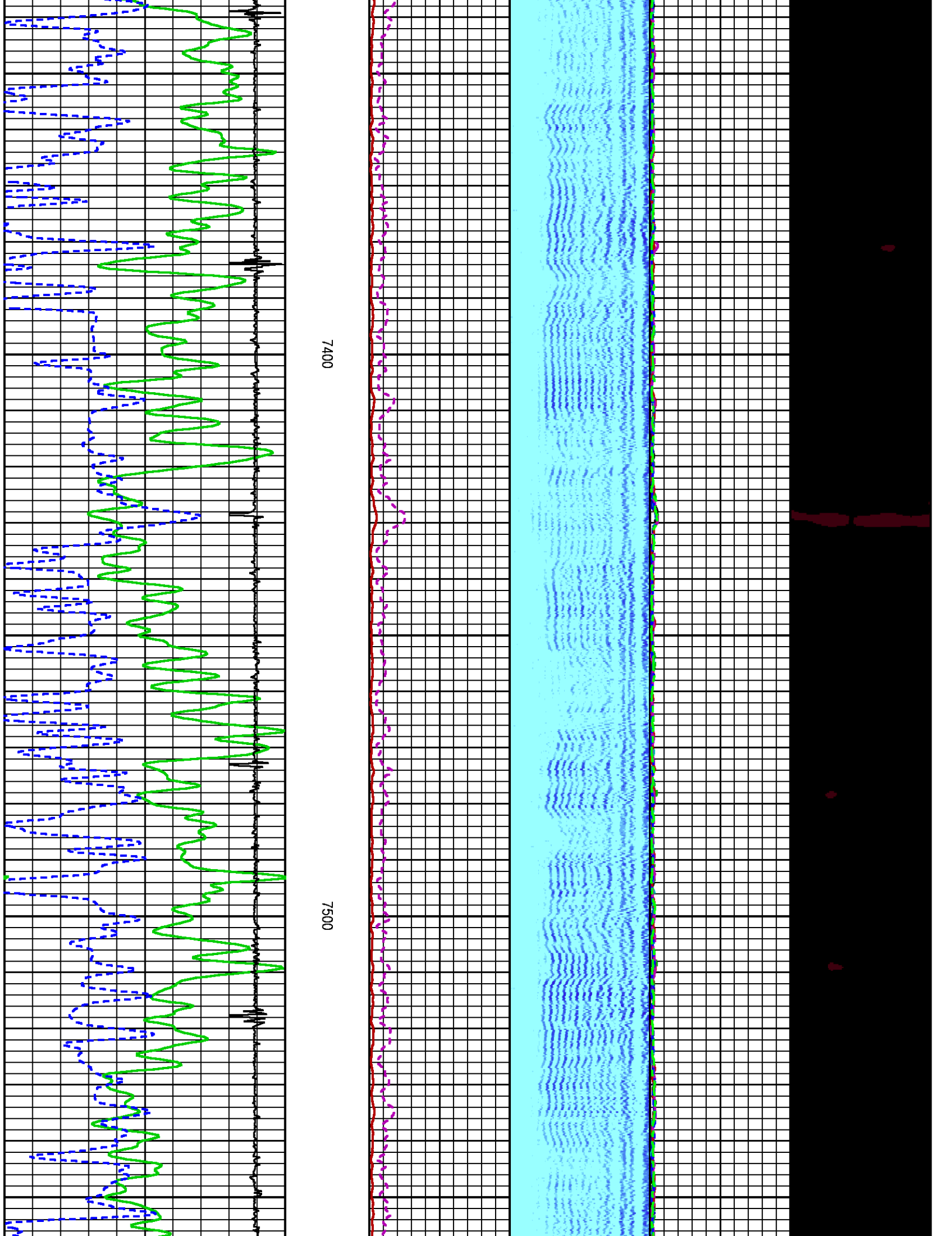
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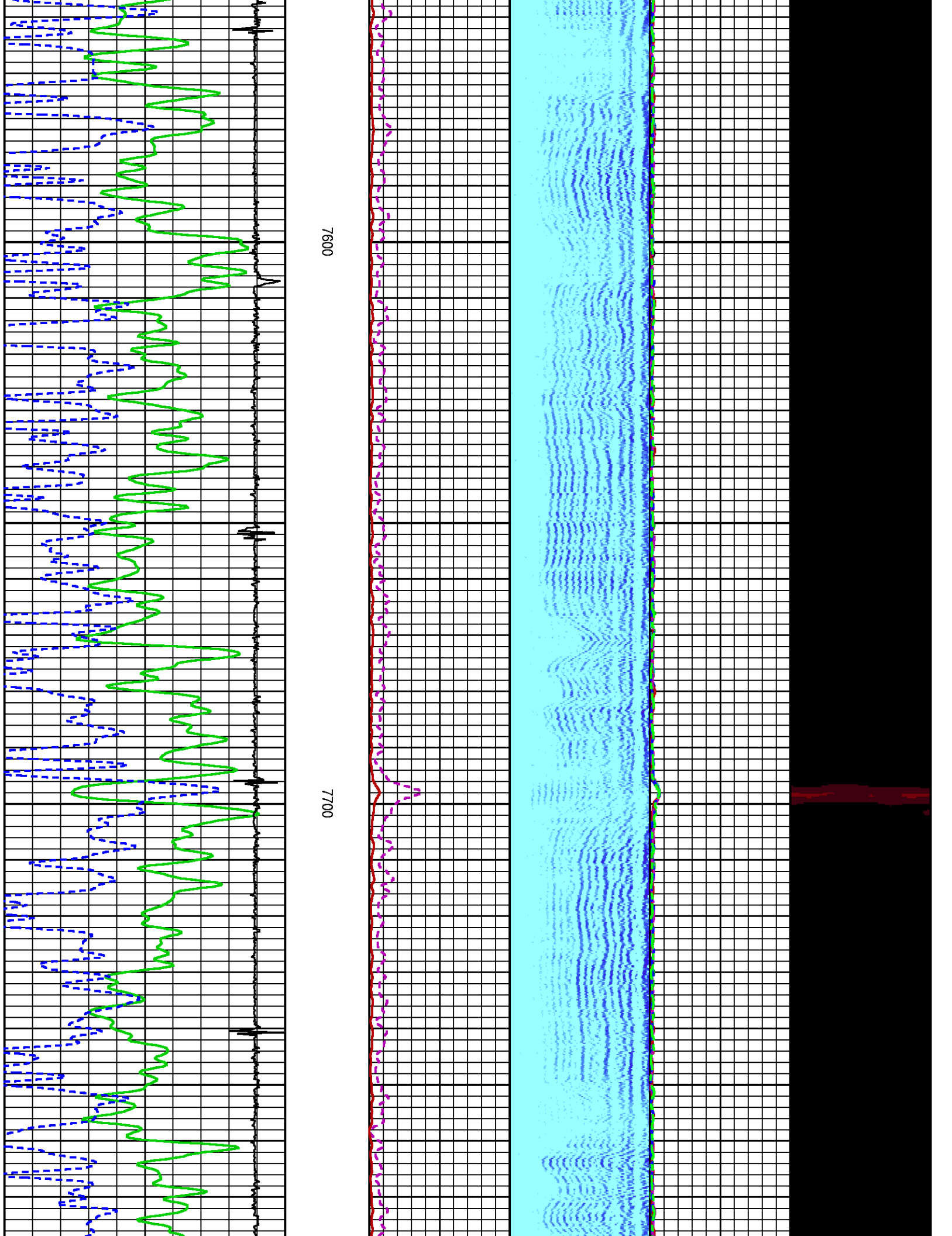
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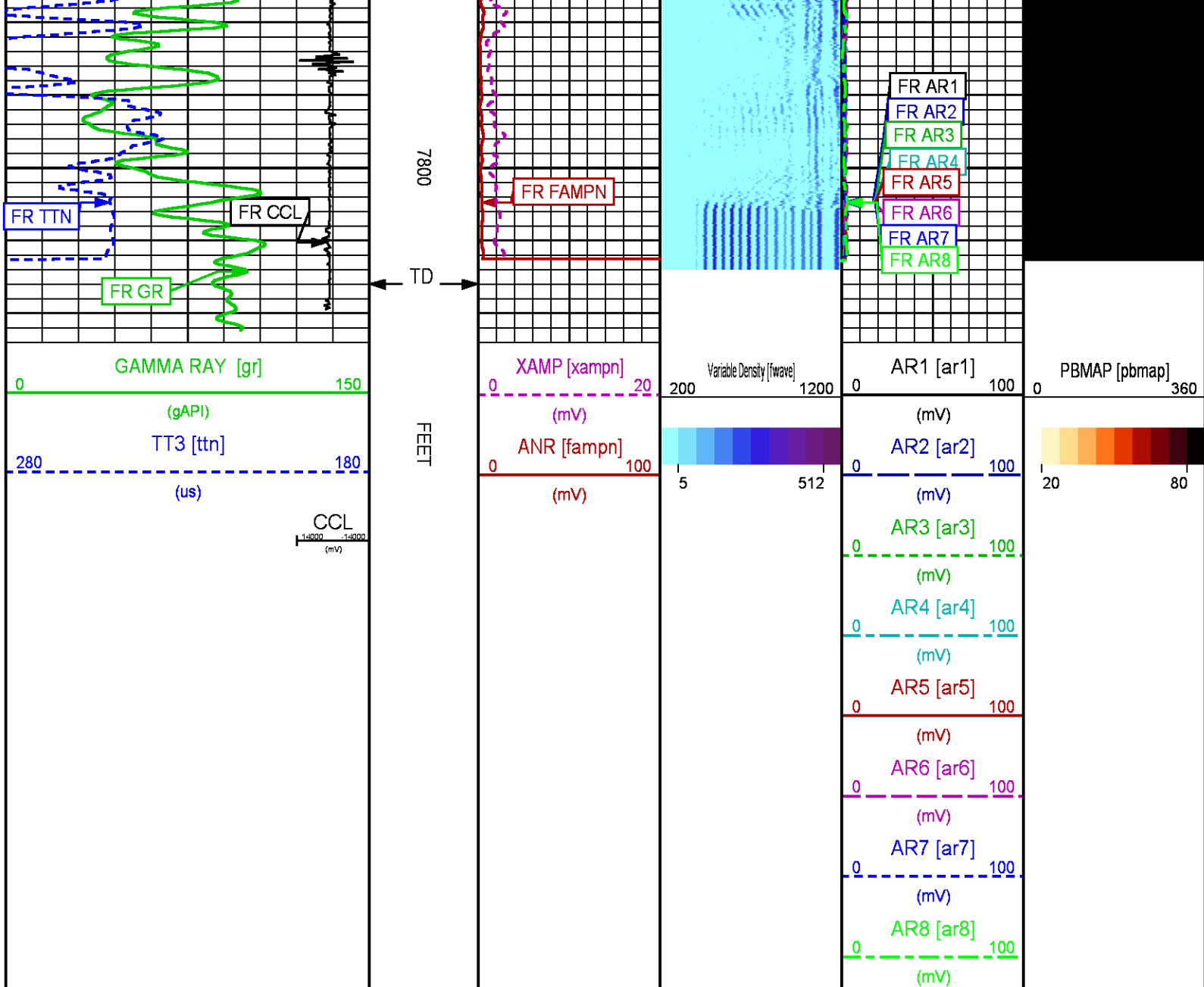












CALIBRATION / VERIFICATION SUMMARY

Source File: C:\Users\spenj\Documents\WDIS\Jobs\WPX\IGM532-9\CH108538\012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Thu Jul 28 16:37:10 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	0.14	-0.00	-0.02	-0.01	-0.01	-0.07	0.01	-0.06	0.51	-0.07
AMP FLUID (mV)	110	110	110	110	110	109	110	109	110	146	109

TT (us)	217	216	217	217	217	216	216	215	216	325	216
M FACTOR	0.91	0.91	0.91	0.91	0.91	0.92	0.91	0.92	0.91	1.03	0.92

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10417452 DATE/TIME PERFORMED: Fri Jul 29 09:18:46 2016 DAYS SINCE CAL: 0

UNIT #: 3885TC 6685 CABLE #: HL6685 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	0.06	0.03	-0.00	-0.05	-0.02	0.03	0.00	-0.03	0.08	-0.01
AMP AIR	0.52	0.14	0.05	0.65	0.72	0.57	0.69	0.33	0.43	0.94	102.91

SHOP M FACTOR	SHOP A FACTOR	WIRELIN E FACTOR
0.92	0.00	0.97

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: C:\Users\spenjos\Documents\VDIS\Jobs\WPX\IGM532-9\CH108538\012g~tdg.meta

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



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

	COMPANY <u>TERRA ENERGY PARTNERS LLC</u> WELL <u>FEDERAL GM 532-9</u> FIELD <u>GRAND VALLEY</u> COUNTY <u>GARFIELD</u> STATE <u>COLORADO</u>		FILE NO: <u>CH108538</u> API NO: <u>05045225360000</u>
	LOCATION: SHL: 656' FNL & 570' FWL BHL: 2273' FNL & 1641' FEL SEC <u>9</u> TWP <u>7S</u> RGE <u>96W</u>		ELEVATIONS: KB 6110 FT DF GL 6087 FT DATE <u>29-Jul-2016</u>