



FILE NO: CH107933	COMPANY WELL FIELD COUNTY	WPX ENERGY FEDERAL GM 442-8 GRAND VALLEY GARFIELD STATE COLORADO
API NO: 05045225330000		

Ver. 4.06 SEC8 T.7S R.96W PAD: MV 16-9 RIG: H&P 318	LOCATION: SHL: 663FNL 553FWL S9T7SR96W BHL: 2050FNL 323FEL S8T7SR96W SEC 8 TWP 7S RGE 96W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	G.L. ELEVATION 6087 FT K.B. 24 FT ABOVE P.D. K.B.	ELEVATIONS: KB 6111 FT DF GL 6087 FT
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DATE	19-Jun-2016
RUN	1
TRIP	1
SERVICE ORDER	US107933
DEPTH DRILLER	6794 FT
DEPTH LOGGER	6730 FT
BOTTOM LOGGED INTERVAL	6728 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	19:00
TIME FINISHED	21:00
OPERATOR RIG TIME	2 HRS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	50 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.	HL-6685
LOCATION	GRAND JCT.
RECORDED BY	W. QUIGLEY
WITNESSED BY	T. RAGSDALE

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: FIRST LOG ON THIS WELL
SHIFTED TO PUT TOP CCL MARK (WELLHEAD) ON DEPTH WITH KB
AMOUNT OF LINEAR SHIFT: +10.5 FT

BHT = 201 DEGF

SJ = 3732'- 3753'

LOGGED WITH ZERO PSI AT WELLHEAD

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: OLSON/SPENCER/QUIGLEY
RIG: H&P 318

EQUIPMENT DATA					
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10417452	CENTRALIZED
1	1	GR / CCL	1355XA	11871510	CENTRALIZED

MAIN 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: Sun Jun 19 21:26:33 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH107933/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 17.000 ft BOTTOM DEPTH: 6725.750 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

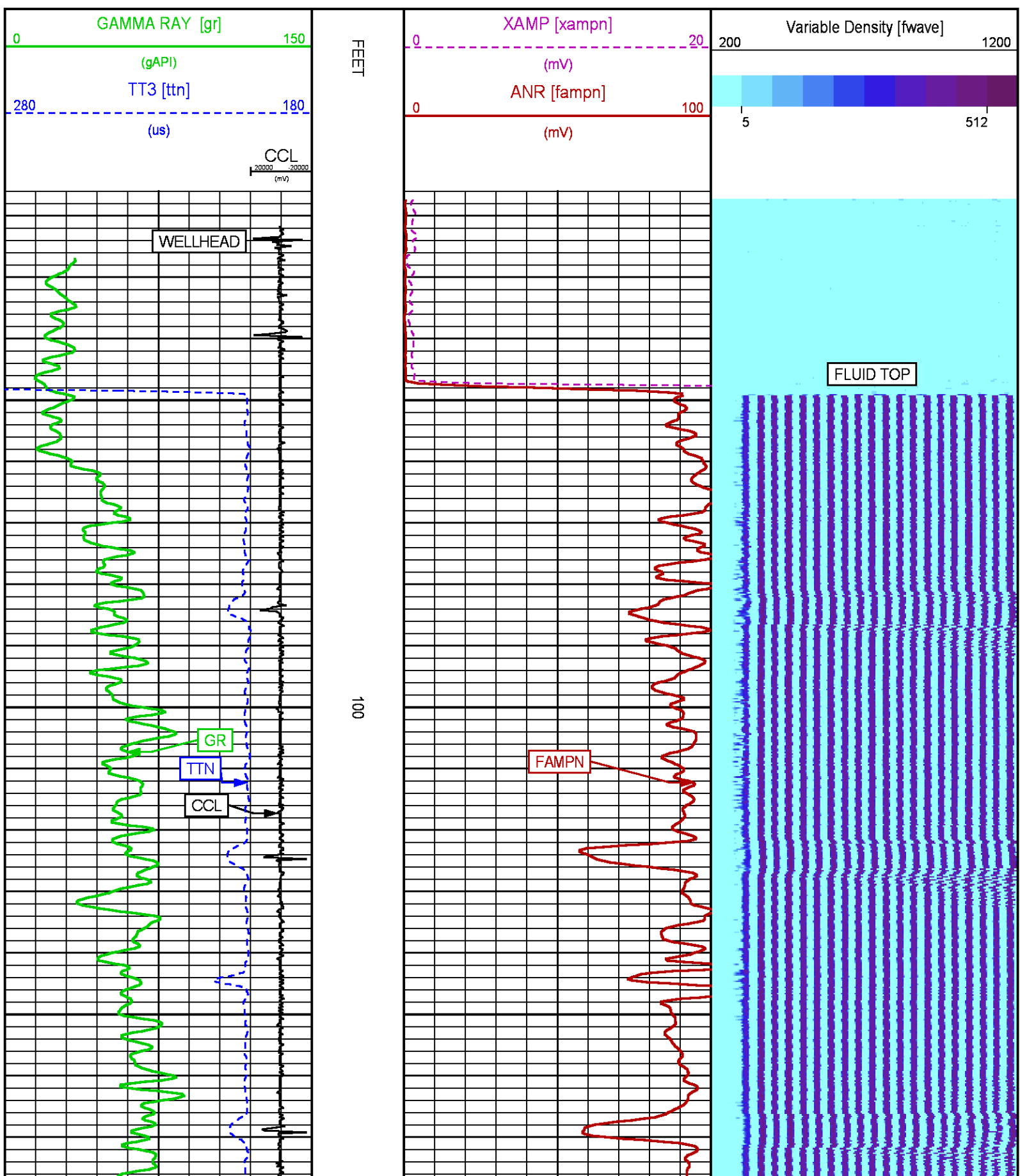
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	129	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

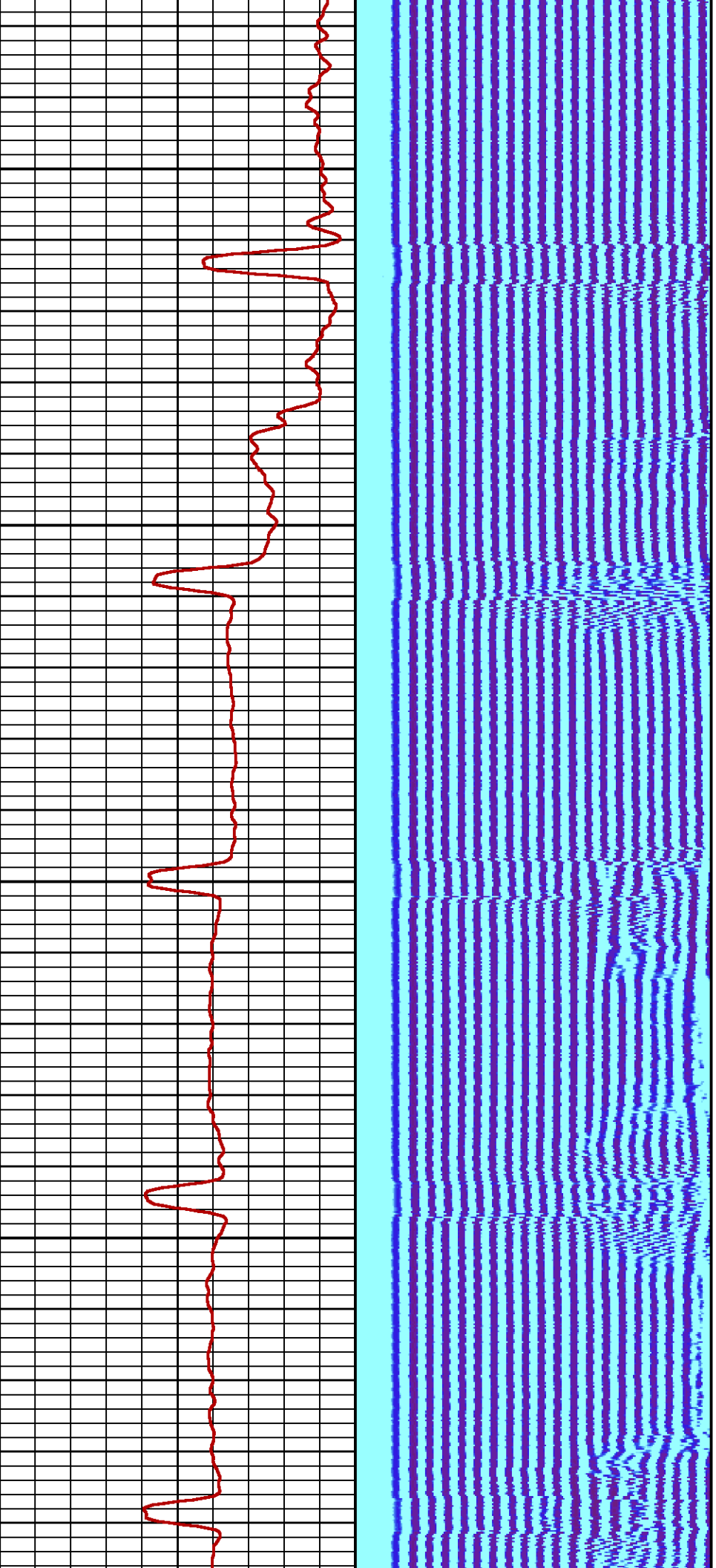
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jun 19 19:32:21 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 19:32:21 2016	FAR WAVE FORM
F1:GR	Jun 19 19:32:21 2016	GAMMA RAY
F1:TTN	Jun 19 19:32:21 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 19:32:21 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\CH107933\X_ray_cbl-main.vppl [5 / 100 Scale]
Plot Interval : 17.25 - 6734.75 Feet

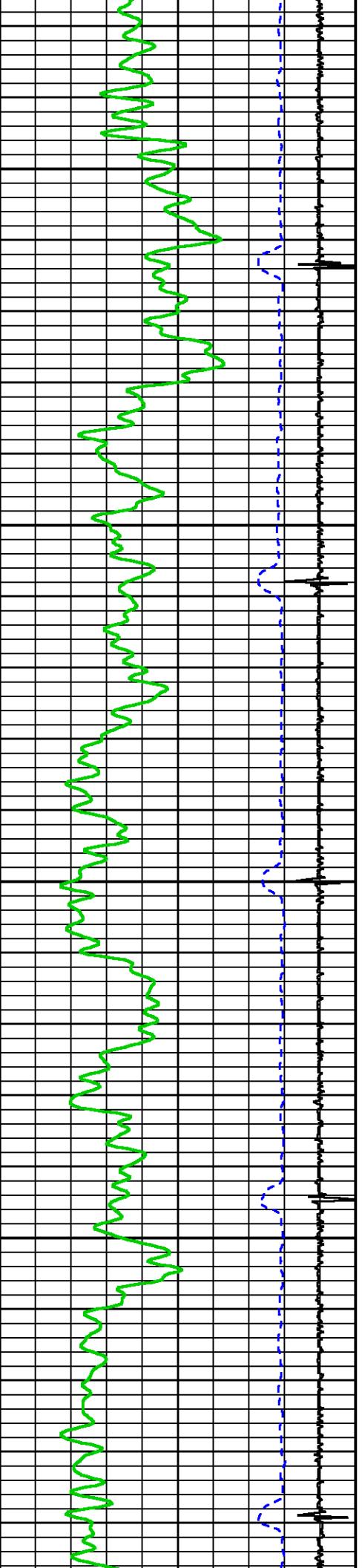
Data File 1 : F1 : cas6685\C\dat1a\CH107933
Created On : 01/20/2016 09:21
Company : WPX ENERGY
Well : FEDERAL GM 442-8
Field : GRAND VALLEY
File Interval : 16.25 - 6736.25 Feet
OCT : n012g

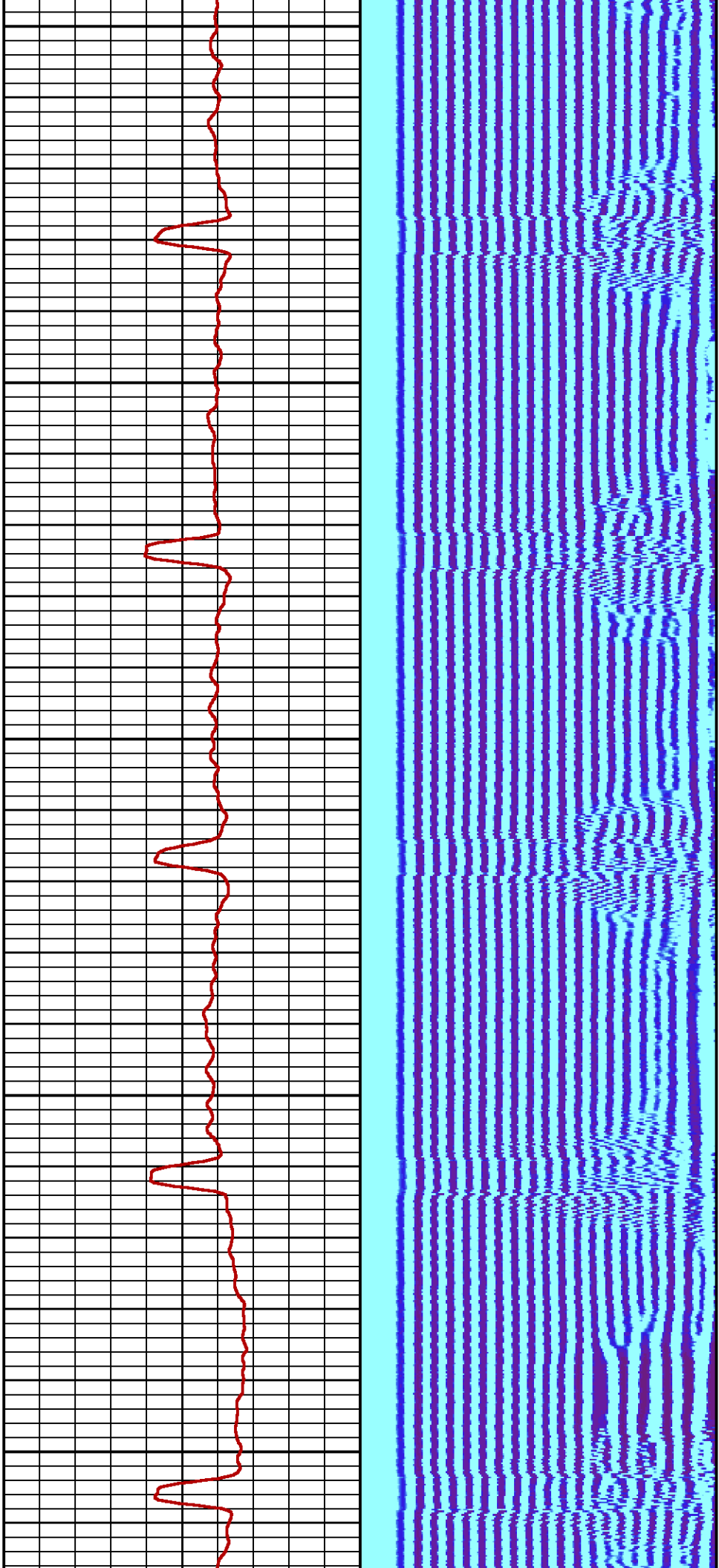




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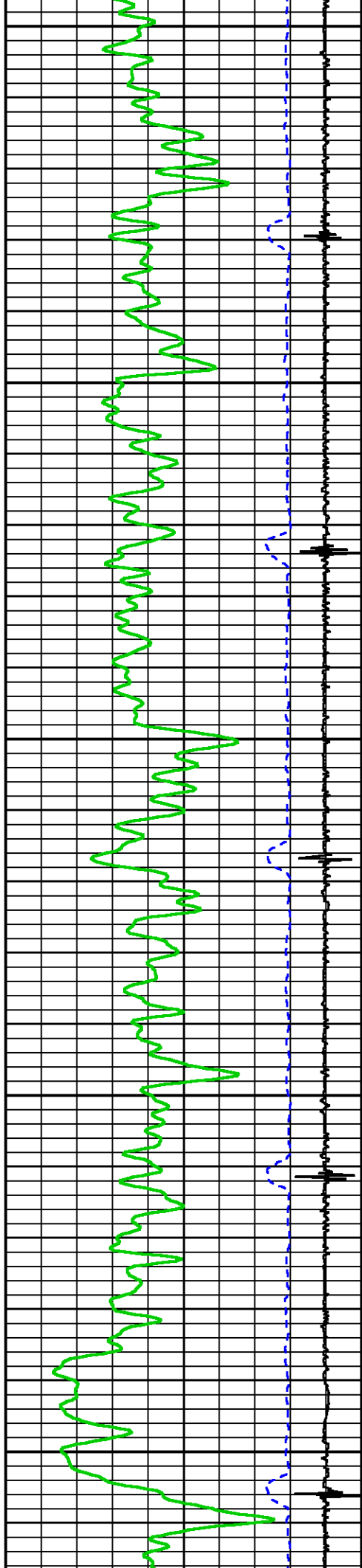


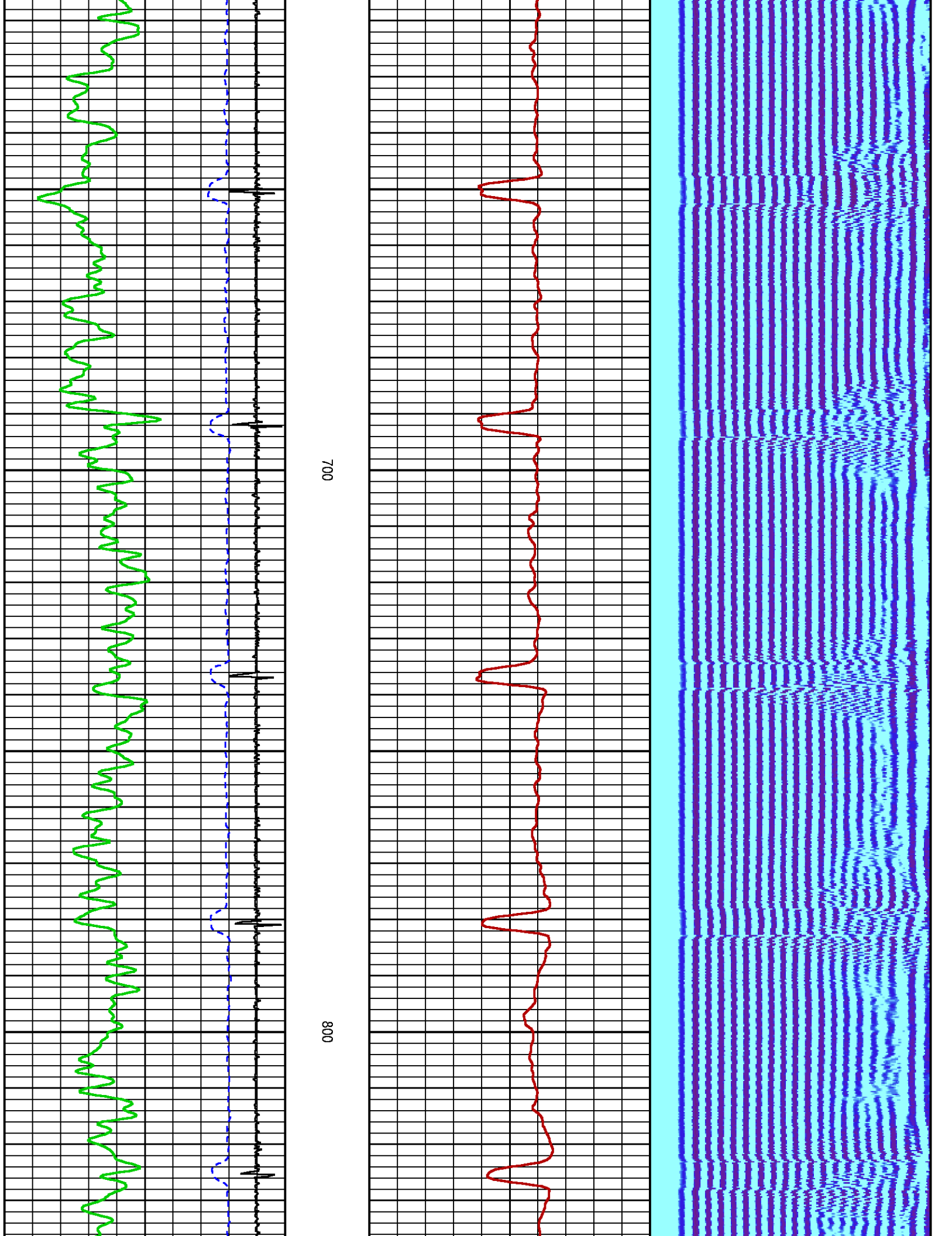


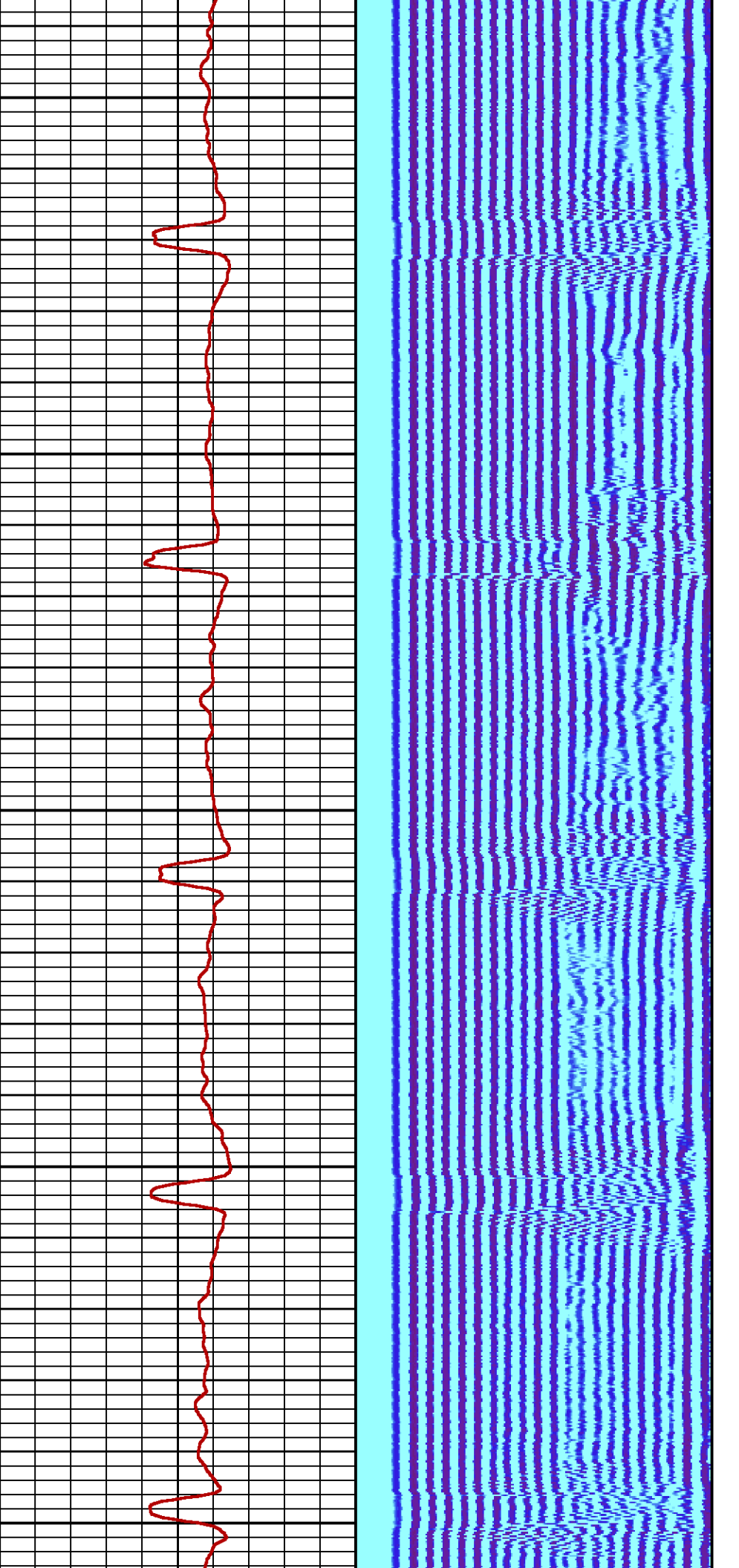
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500

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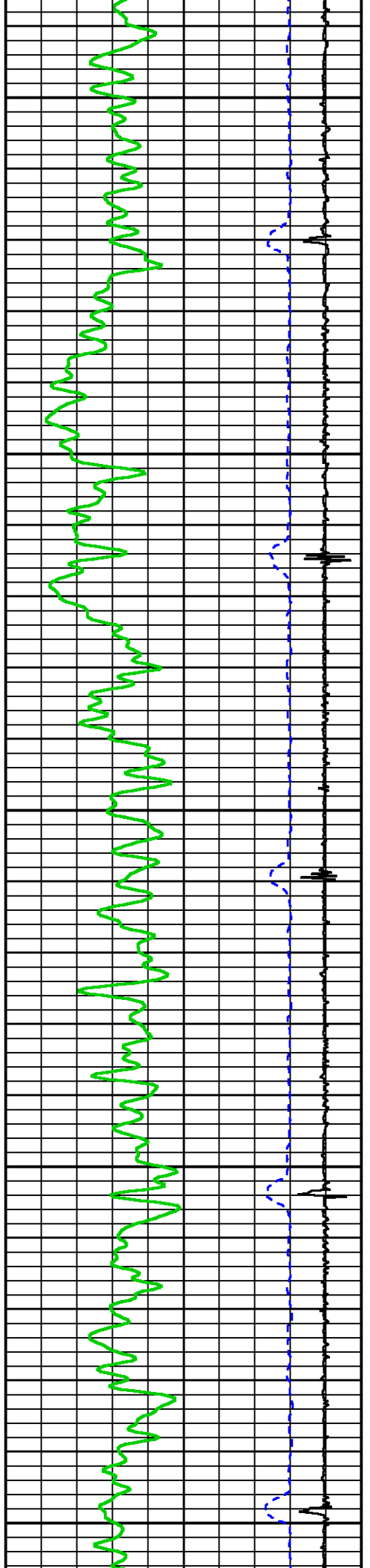


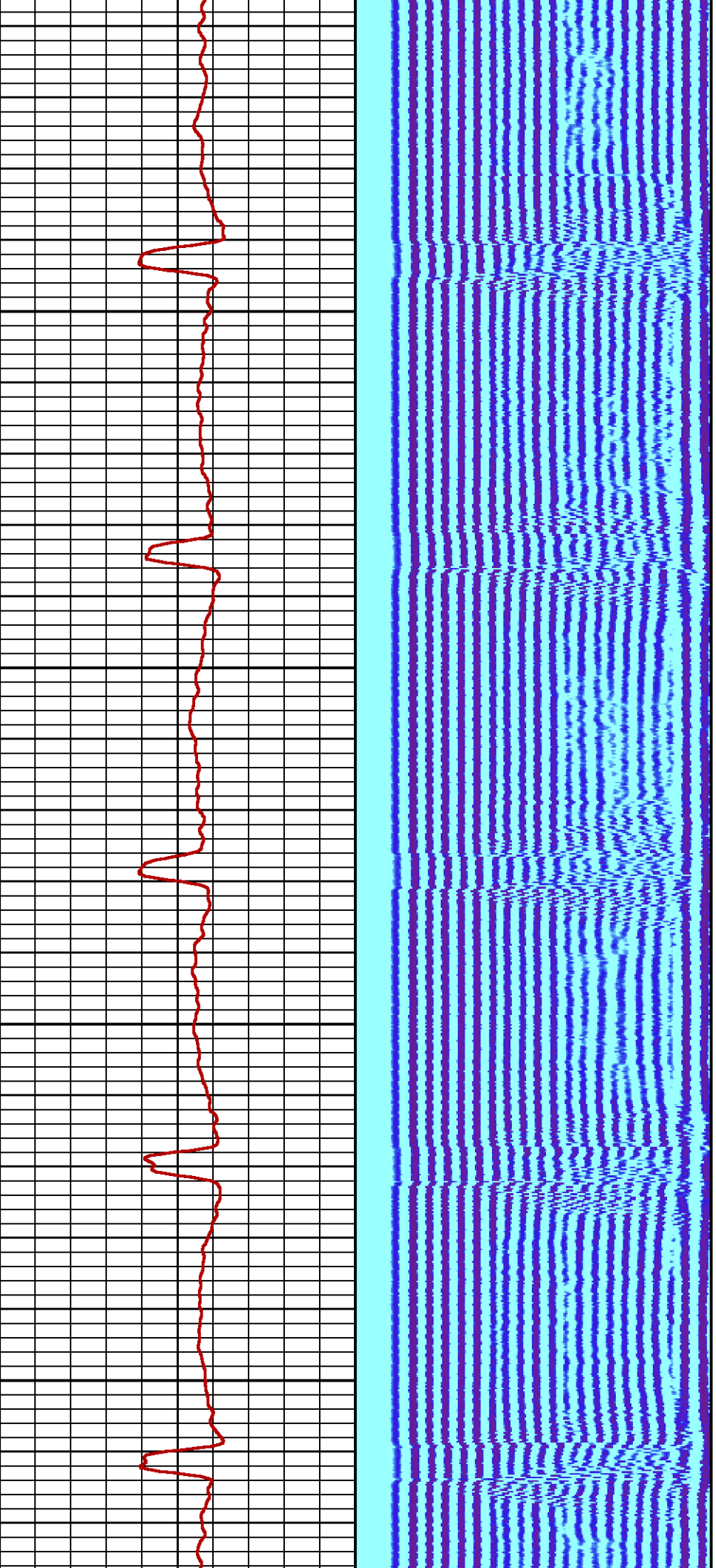




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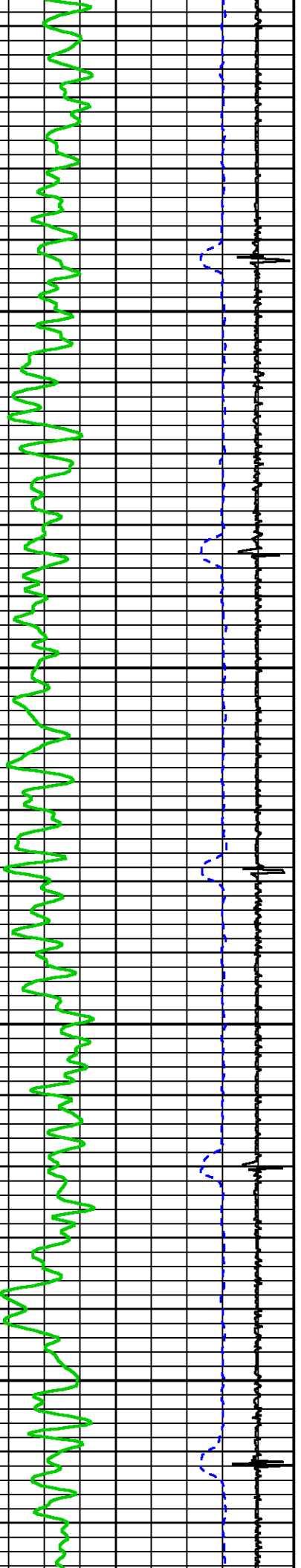
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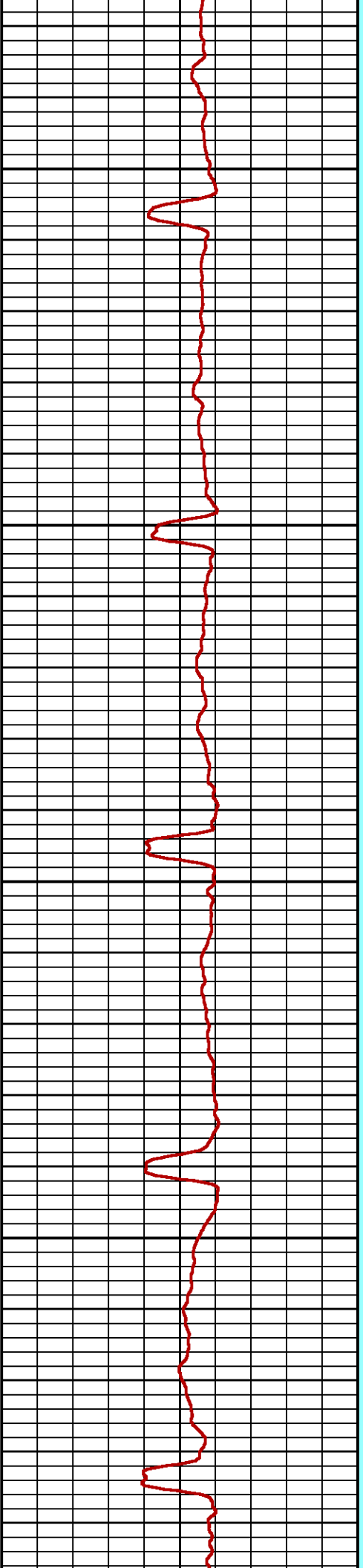
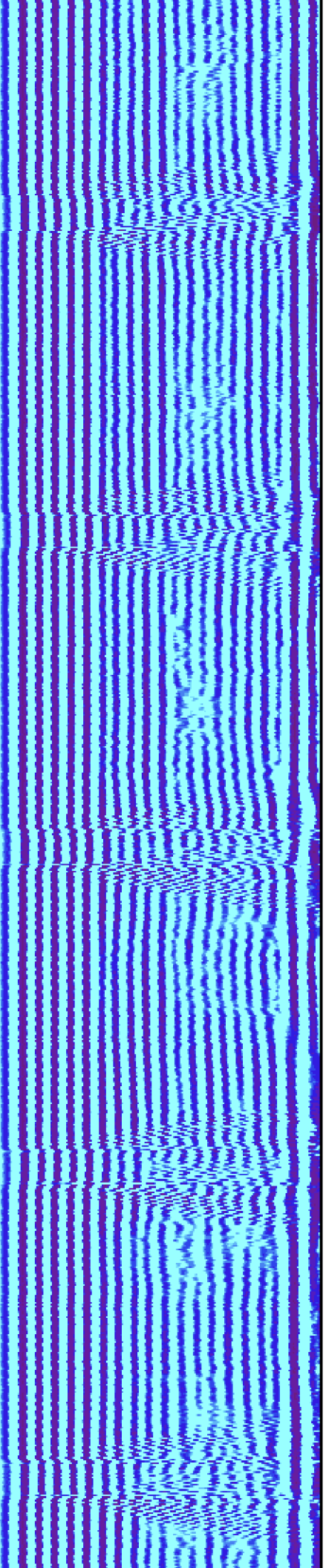




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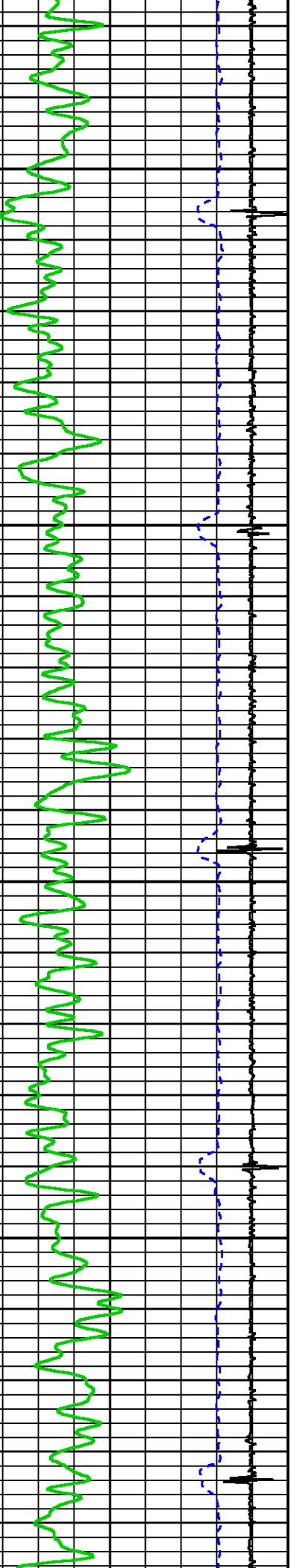
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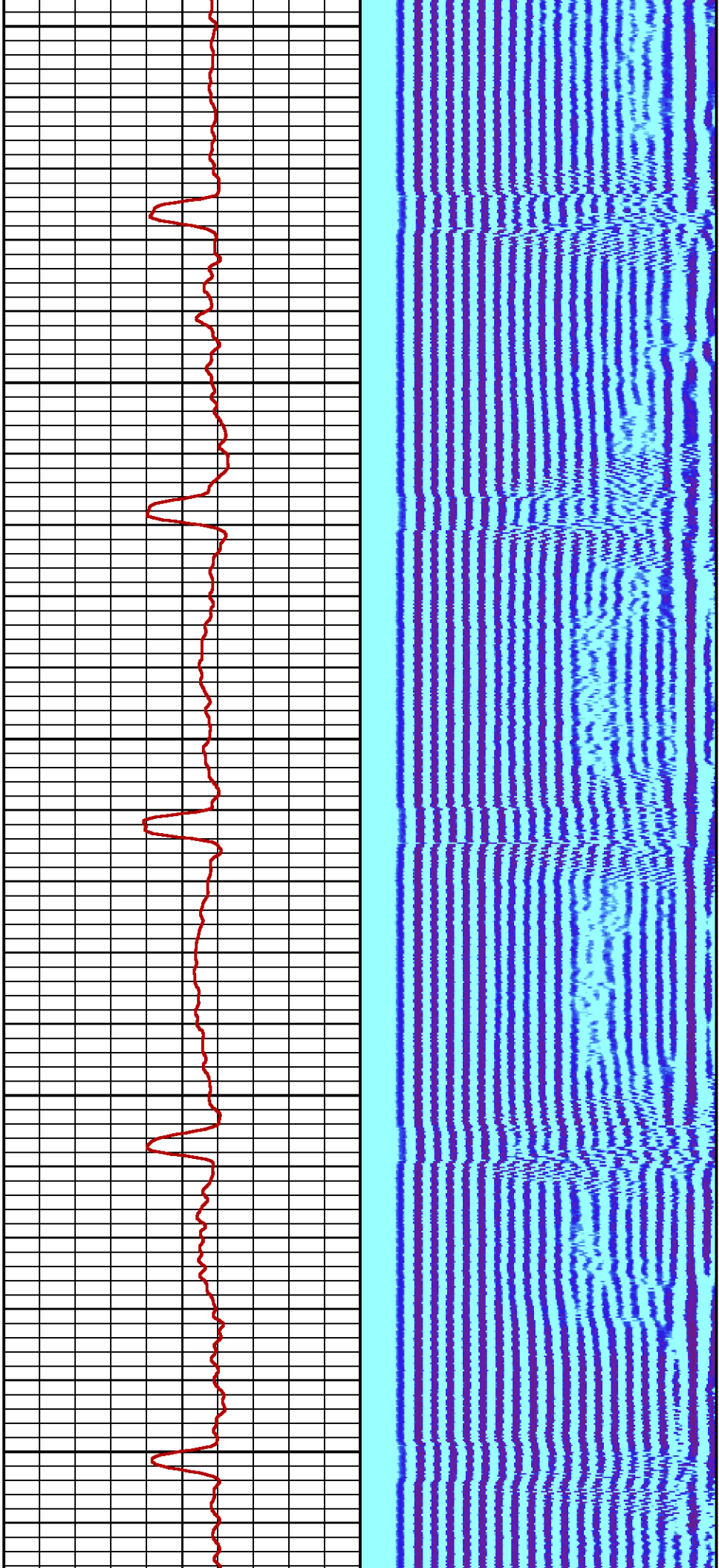




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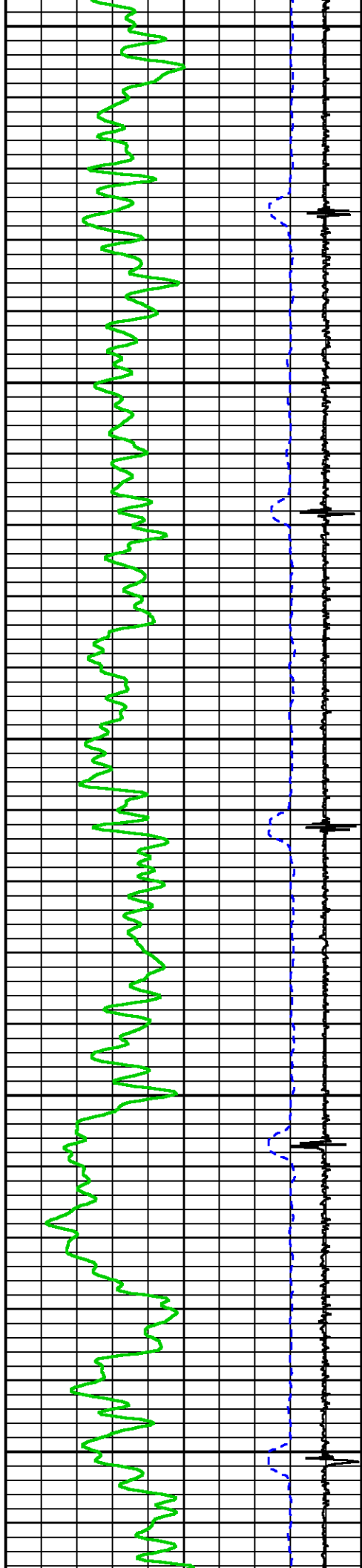


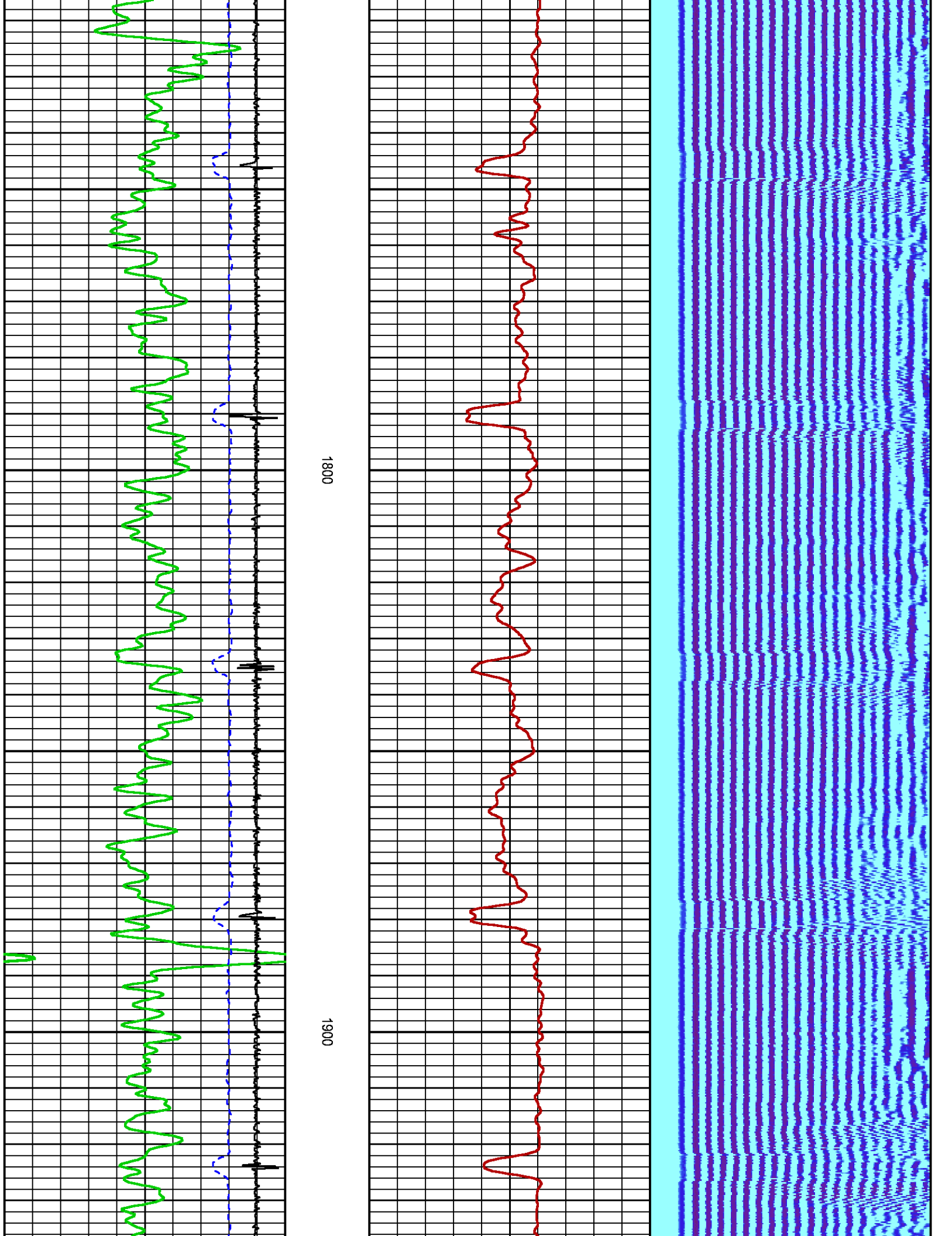


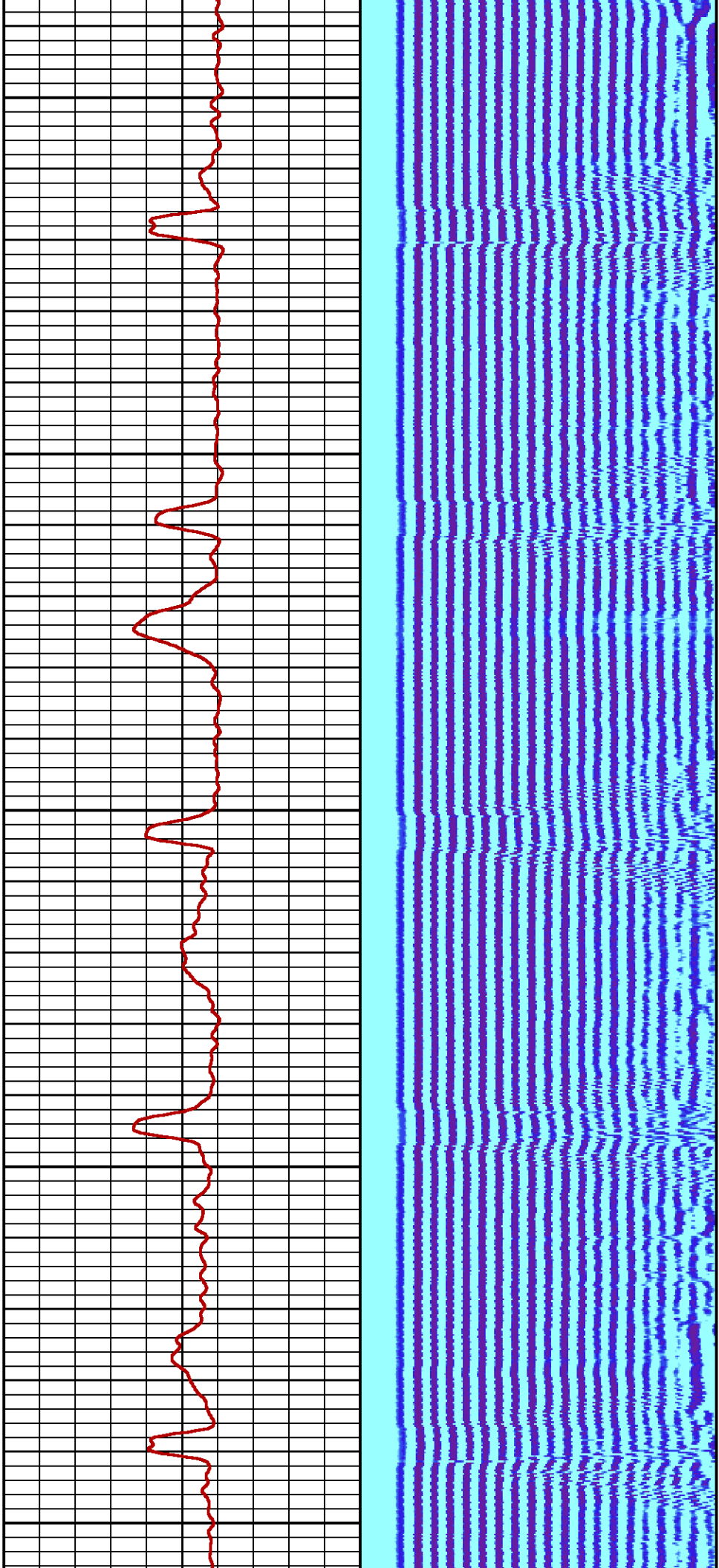
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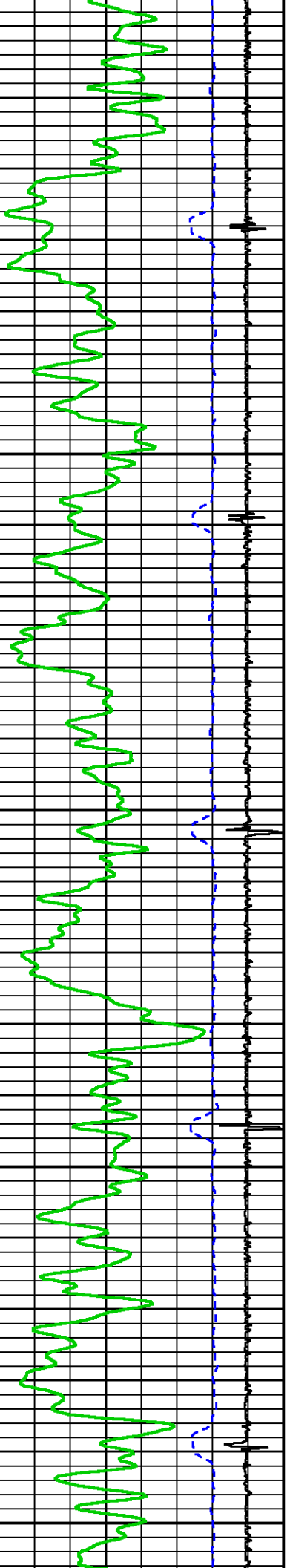


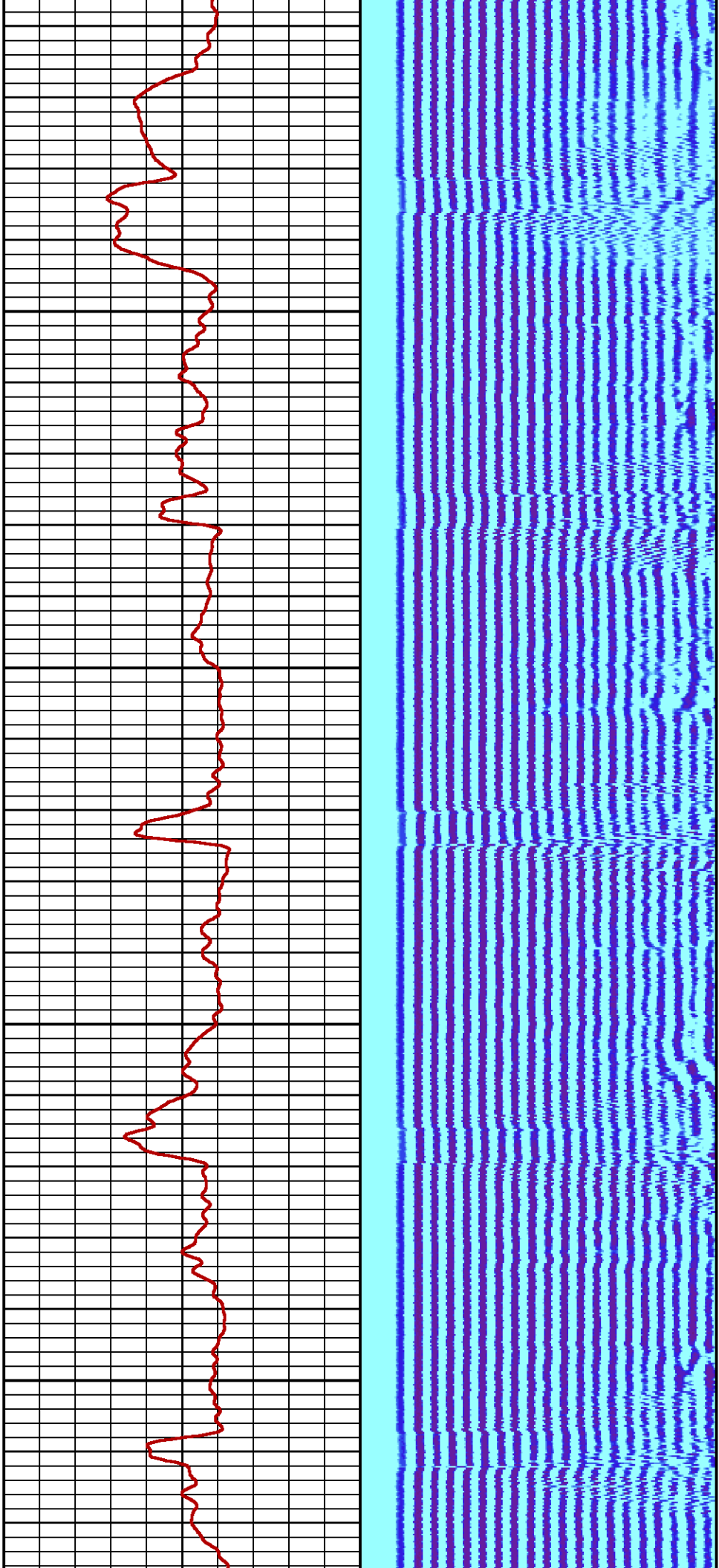




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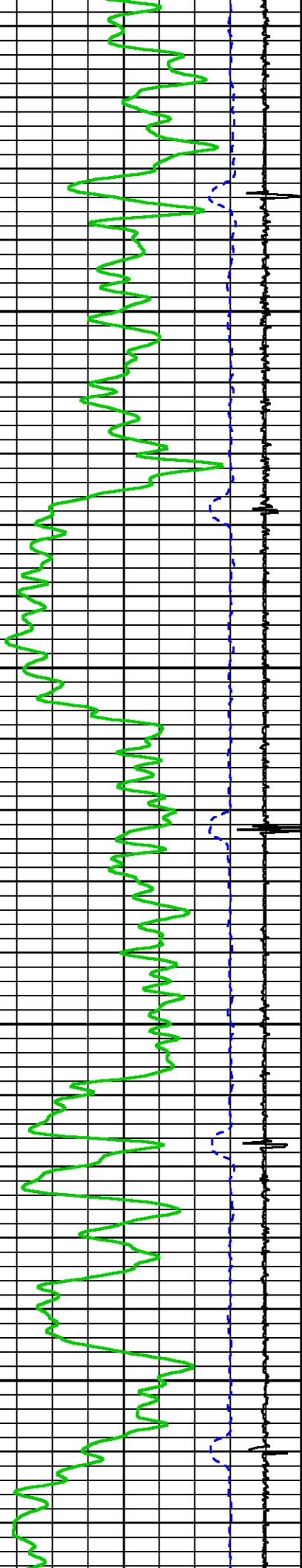
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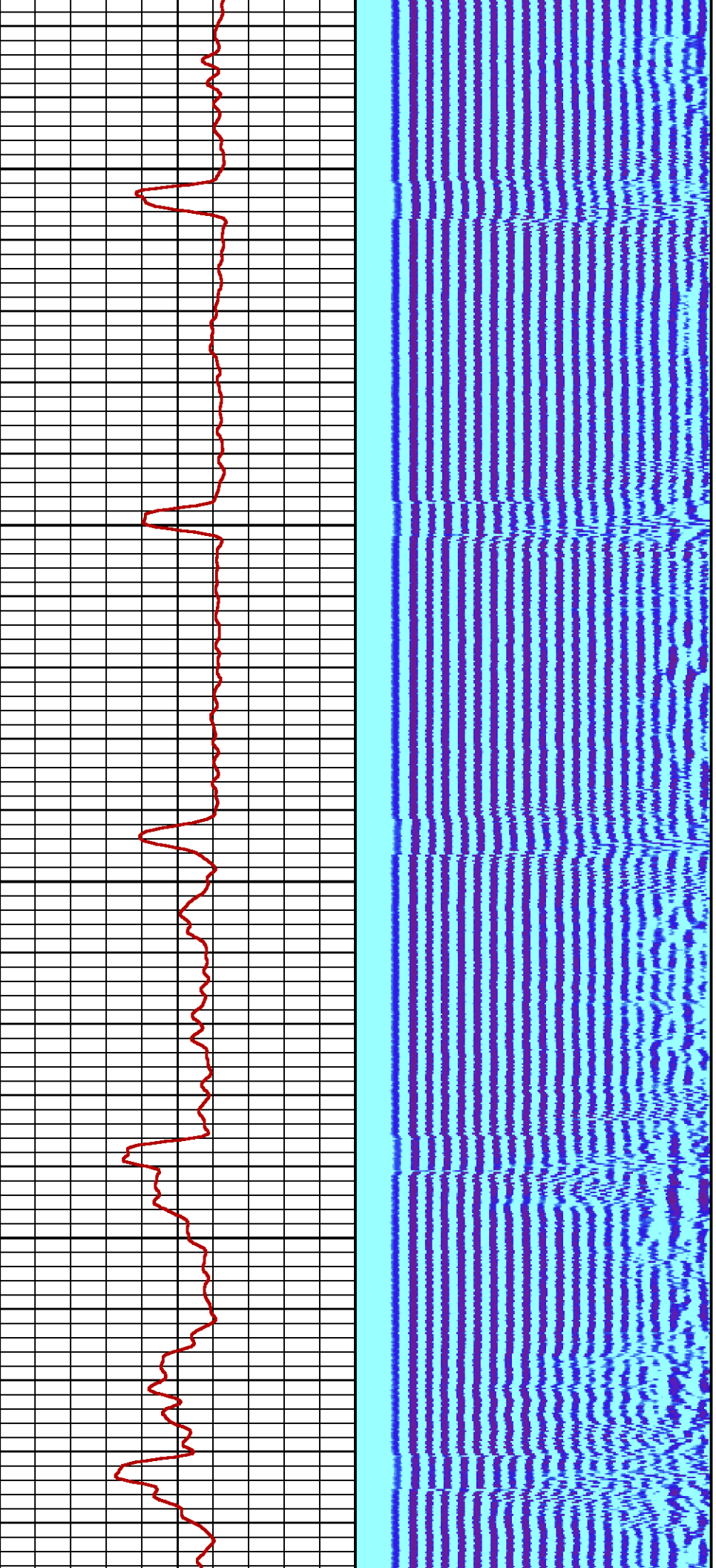




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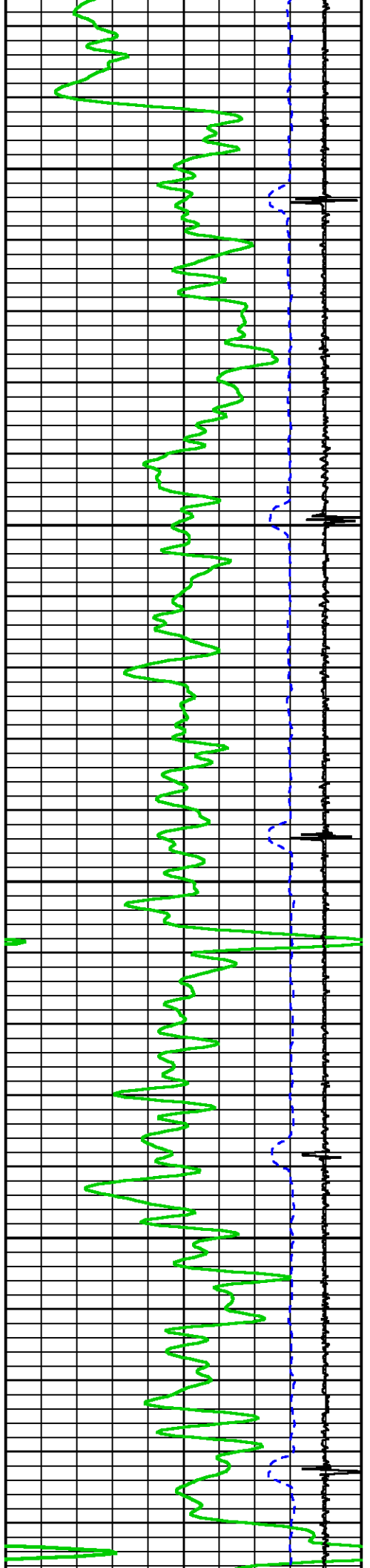
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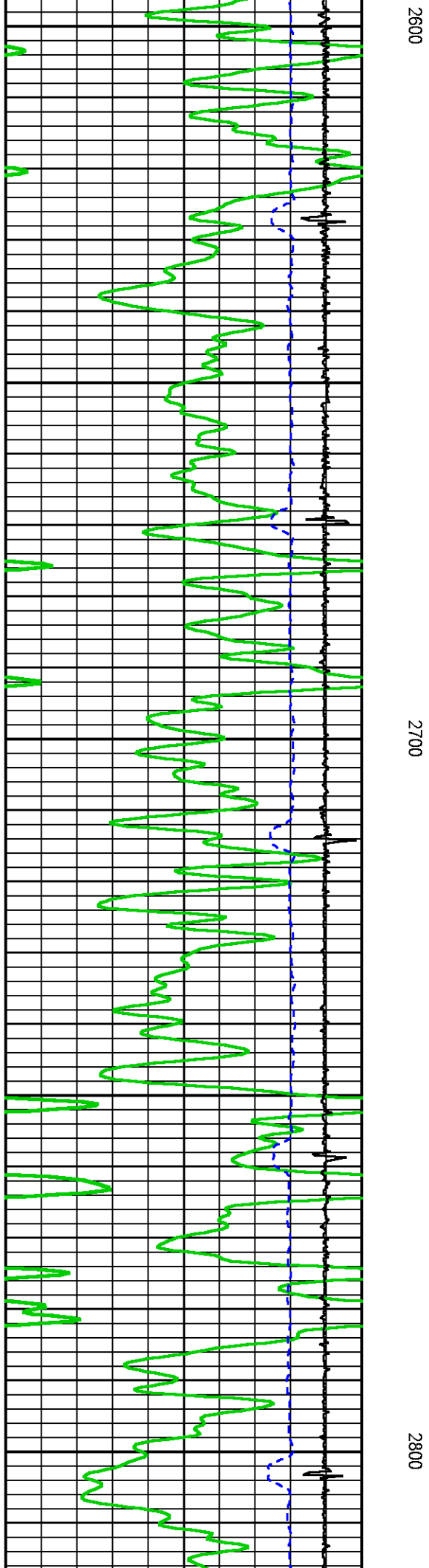
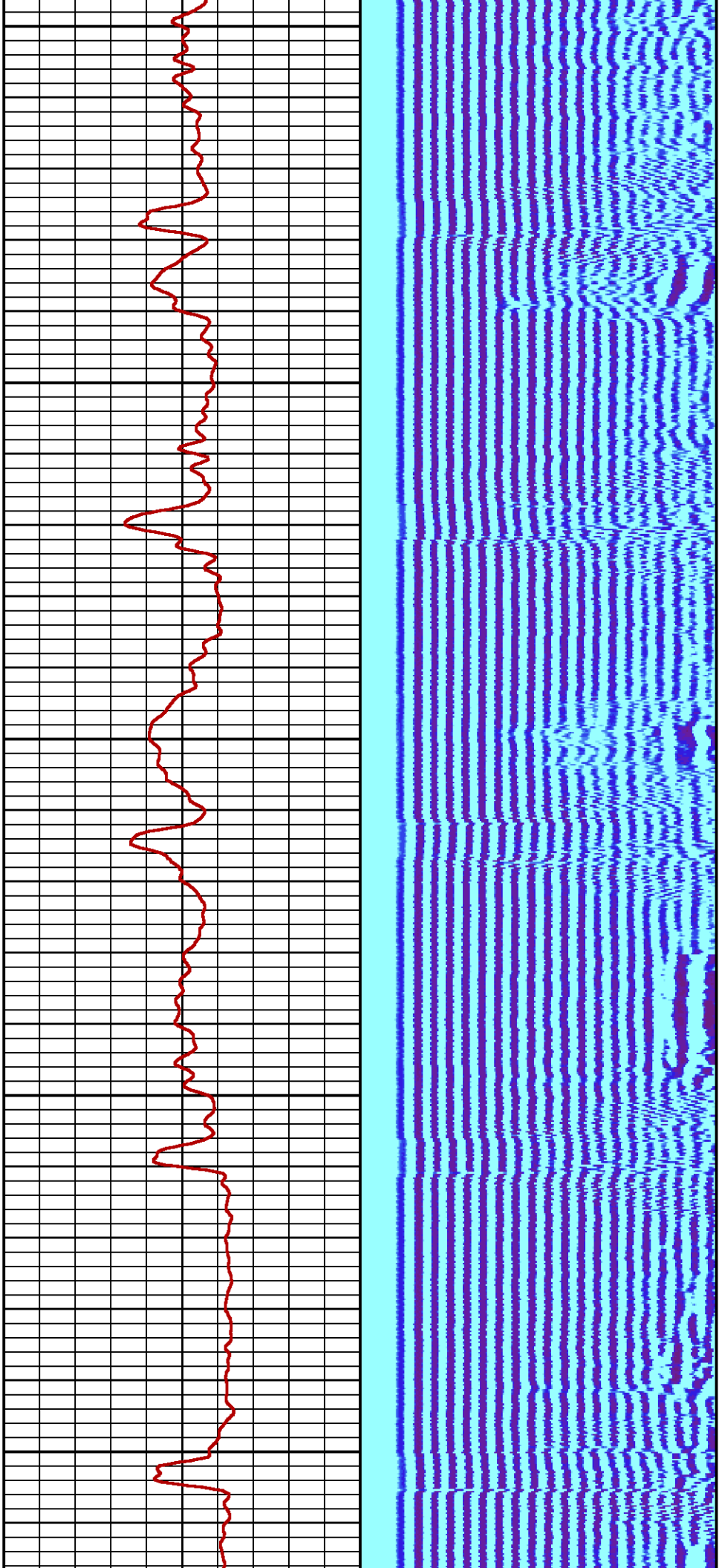


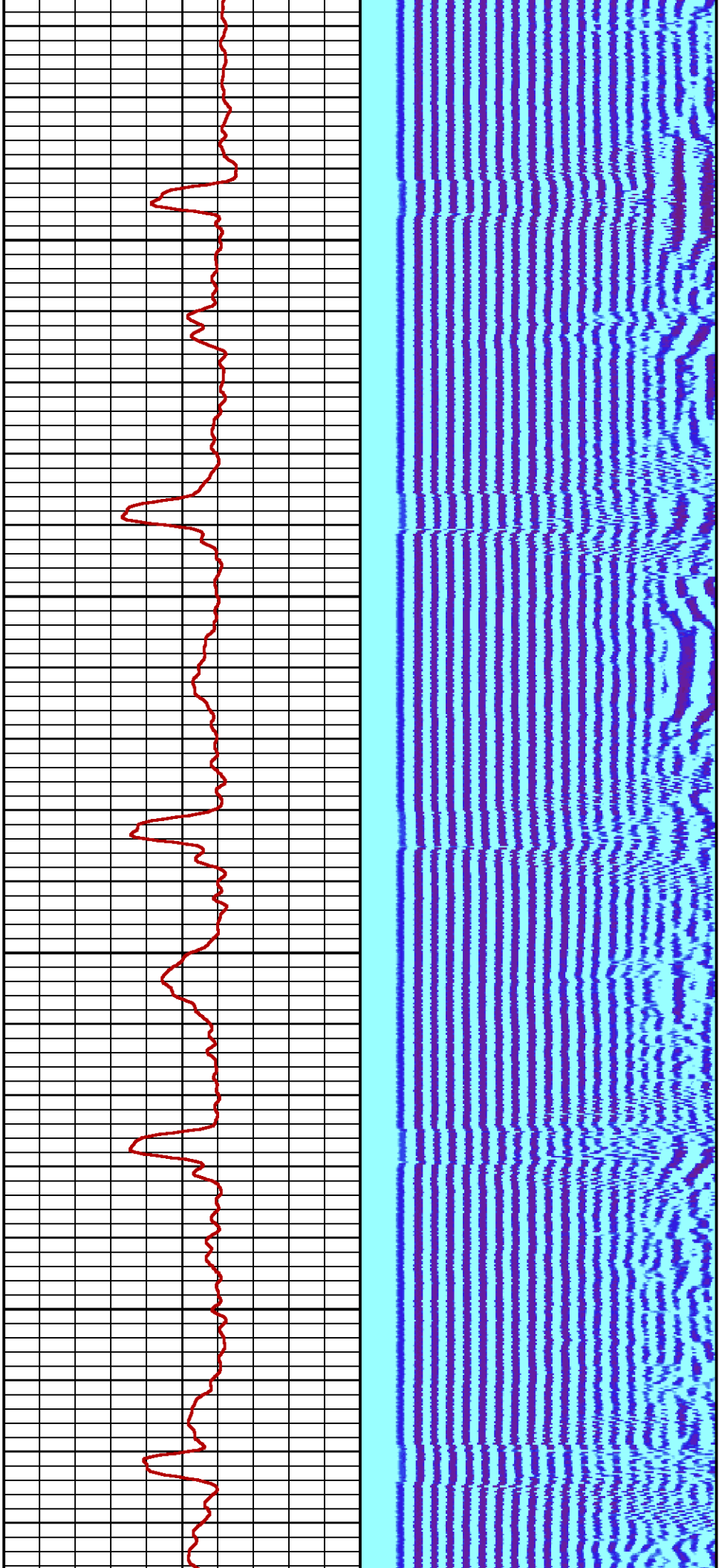


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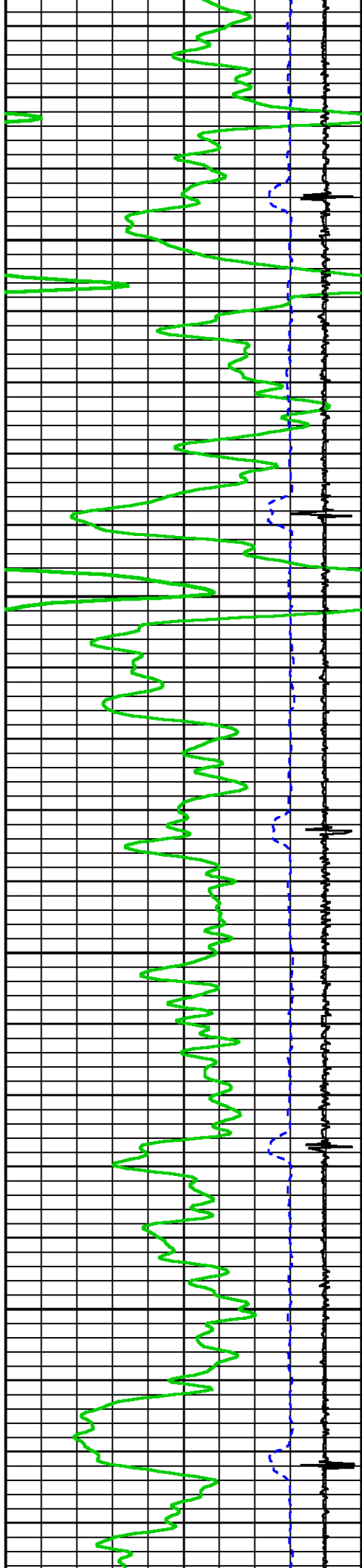


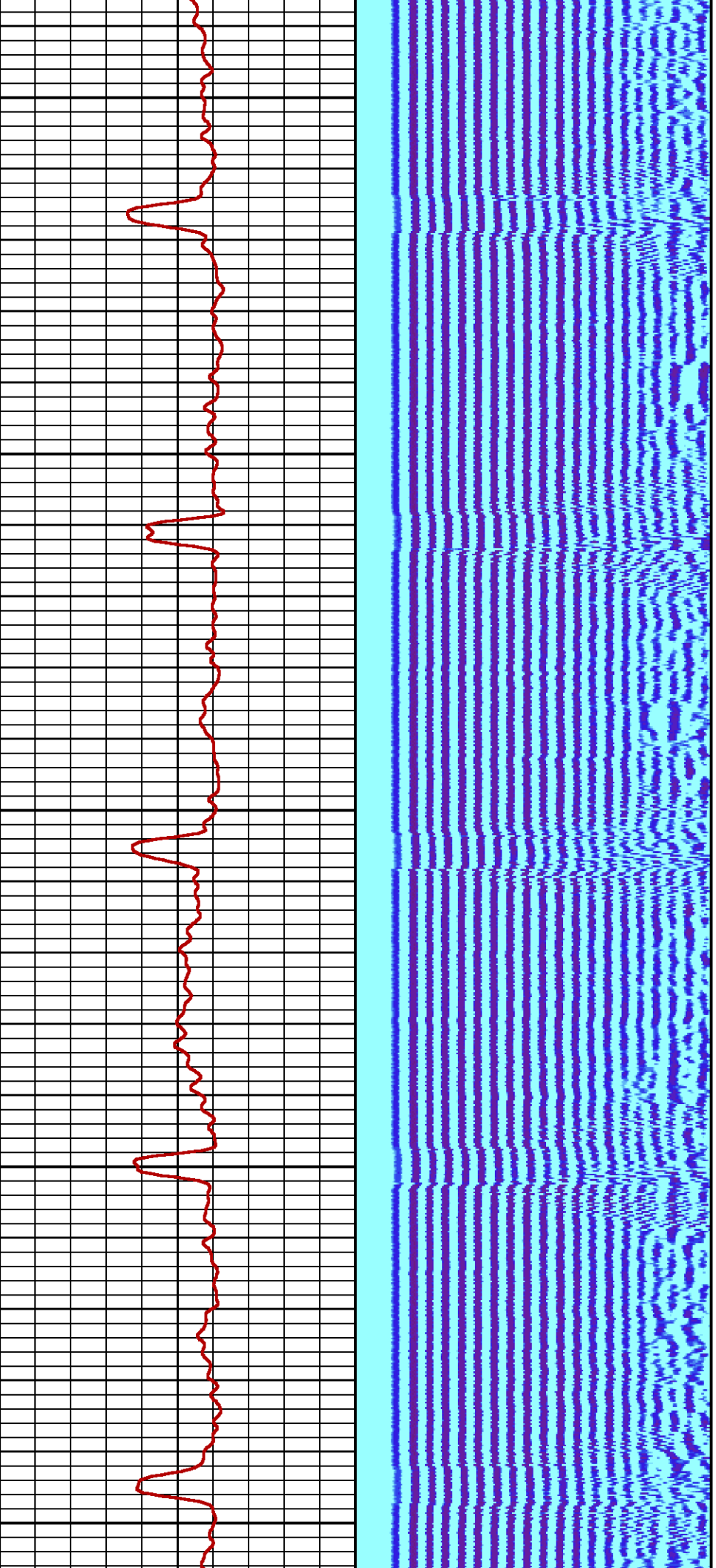




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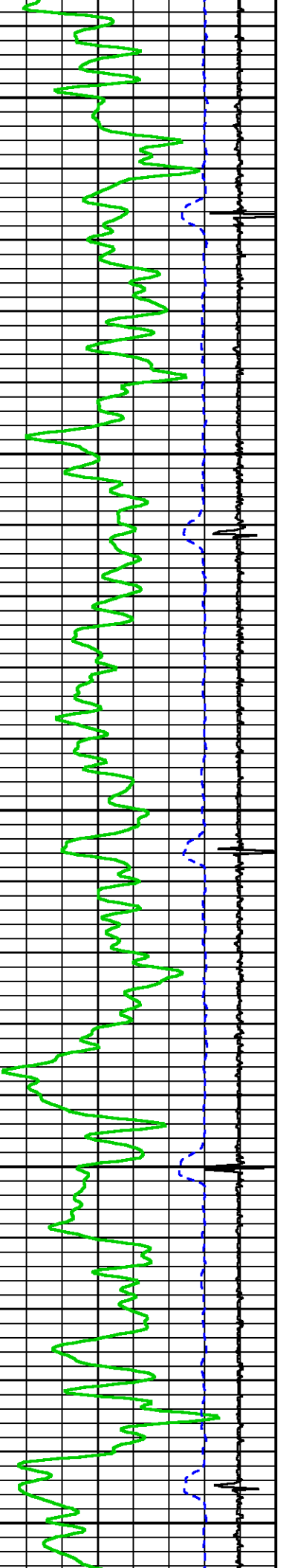
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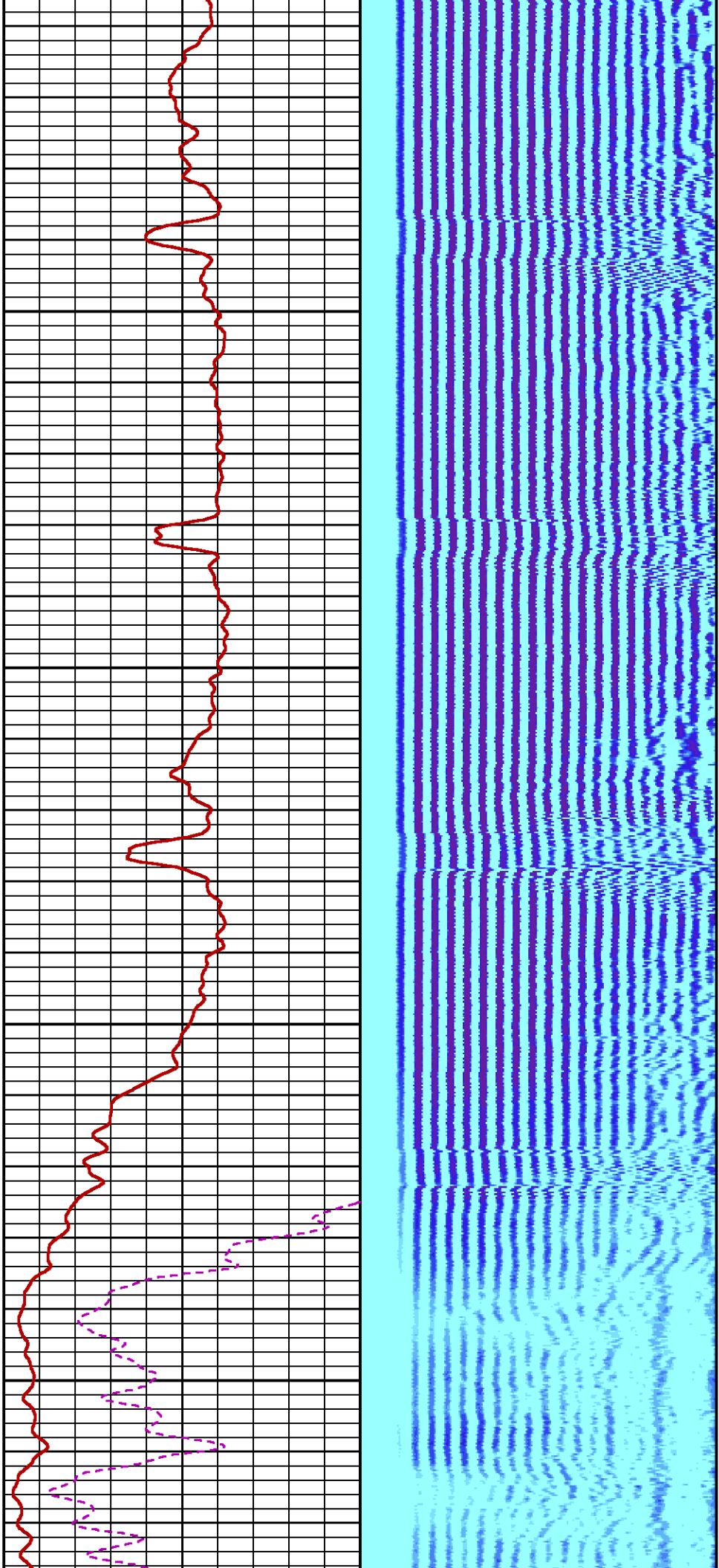




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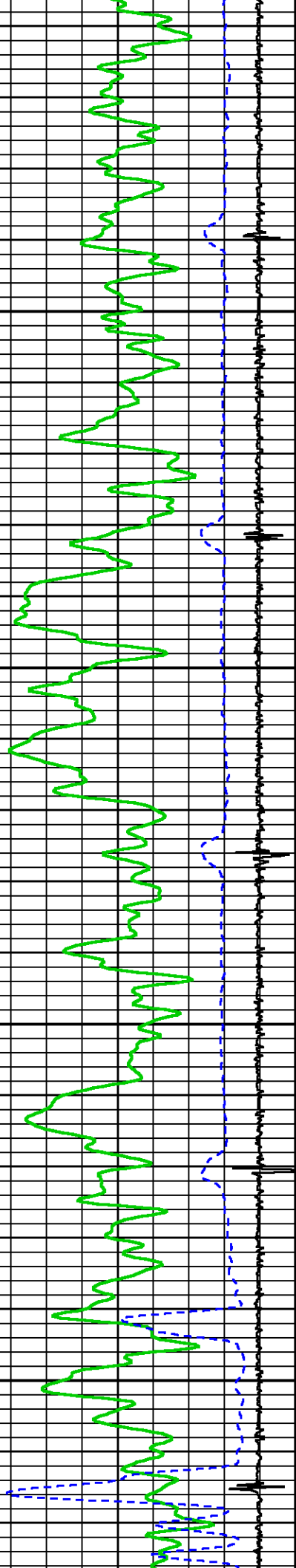
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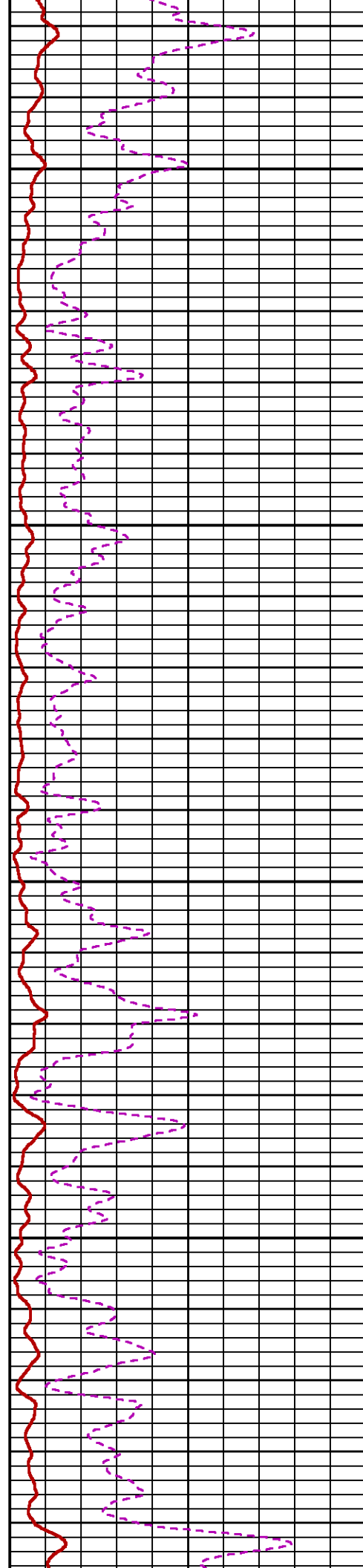
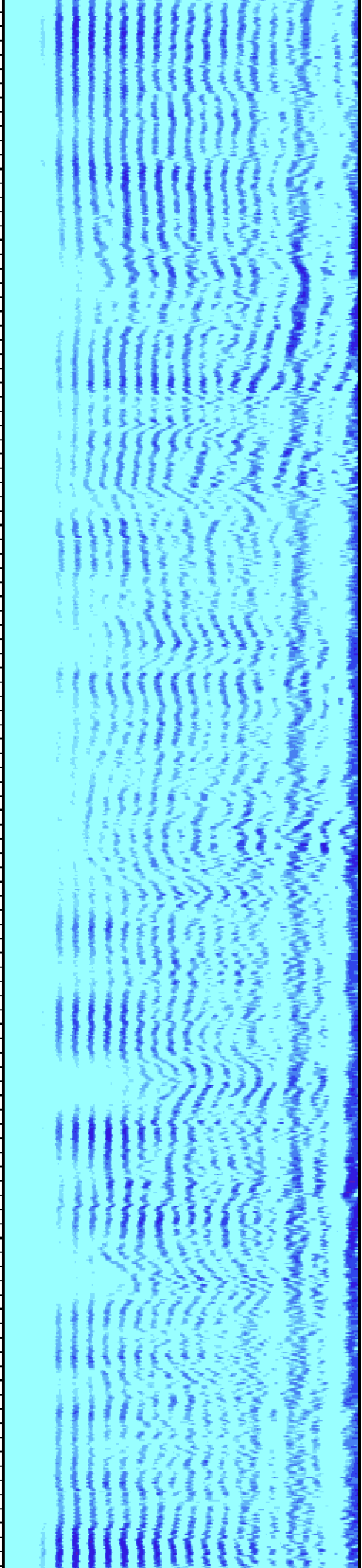




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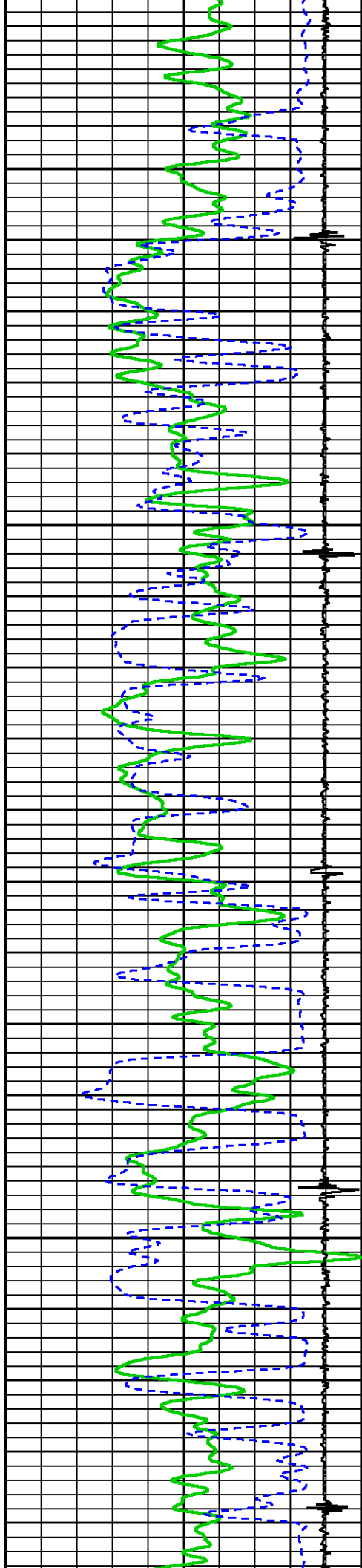
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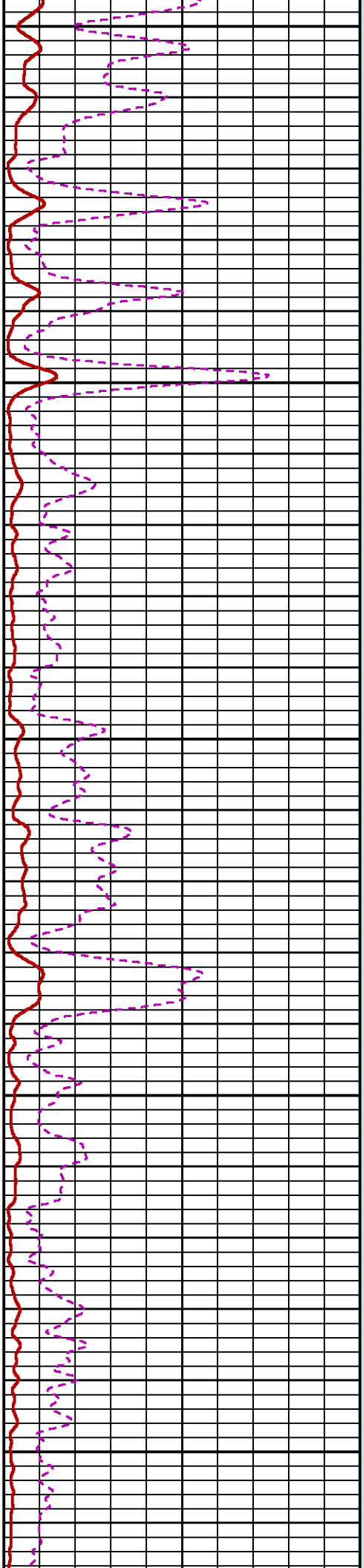
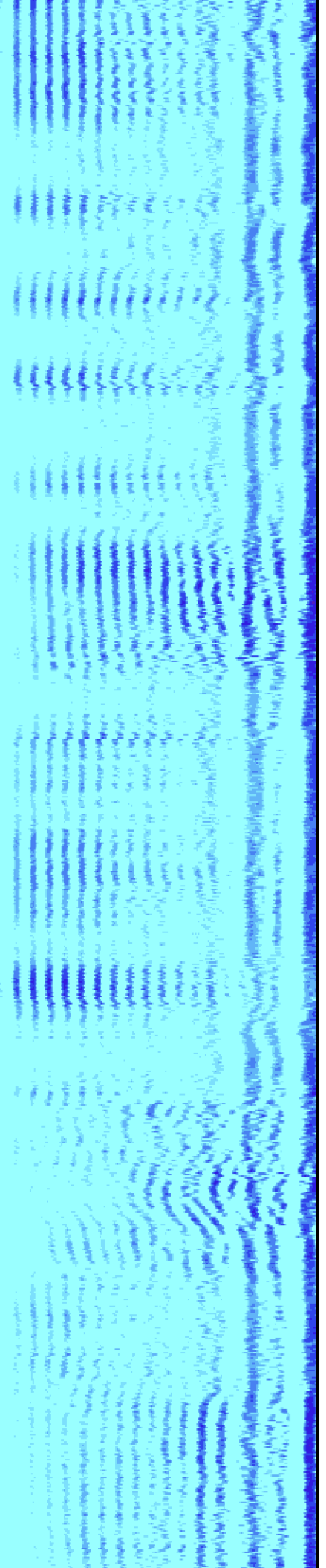




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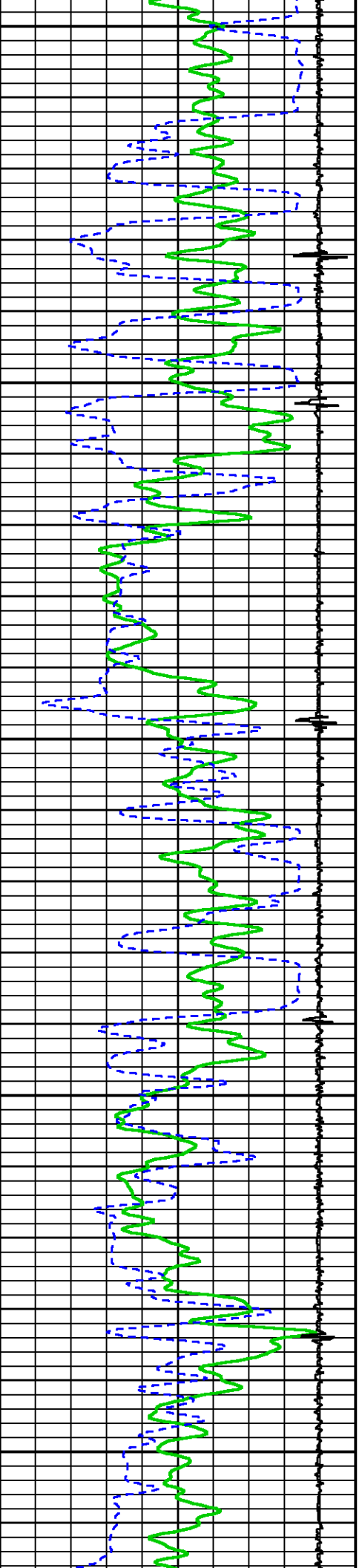


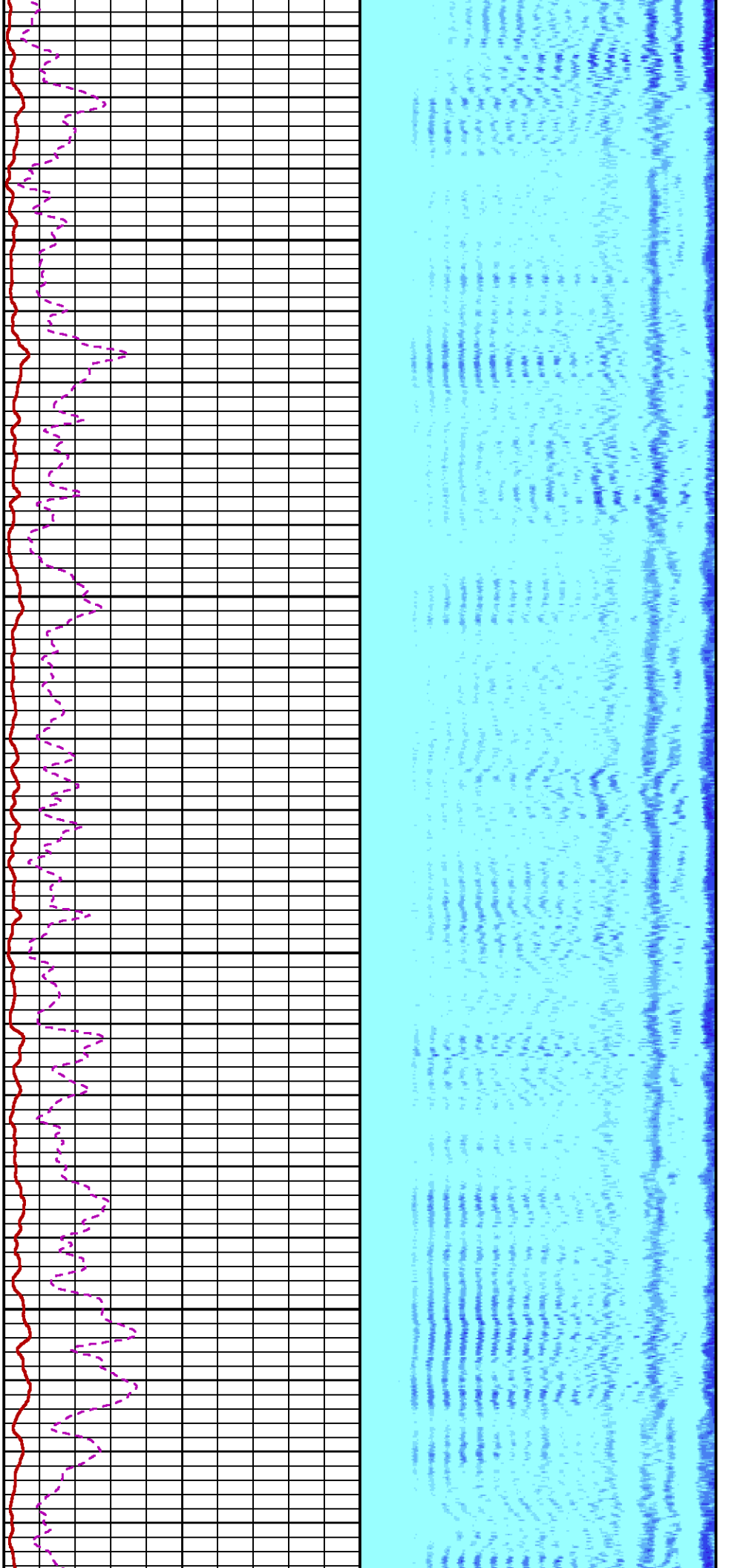
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JOINT

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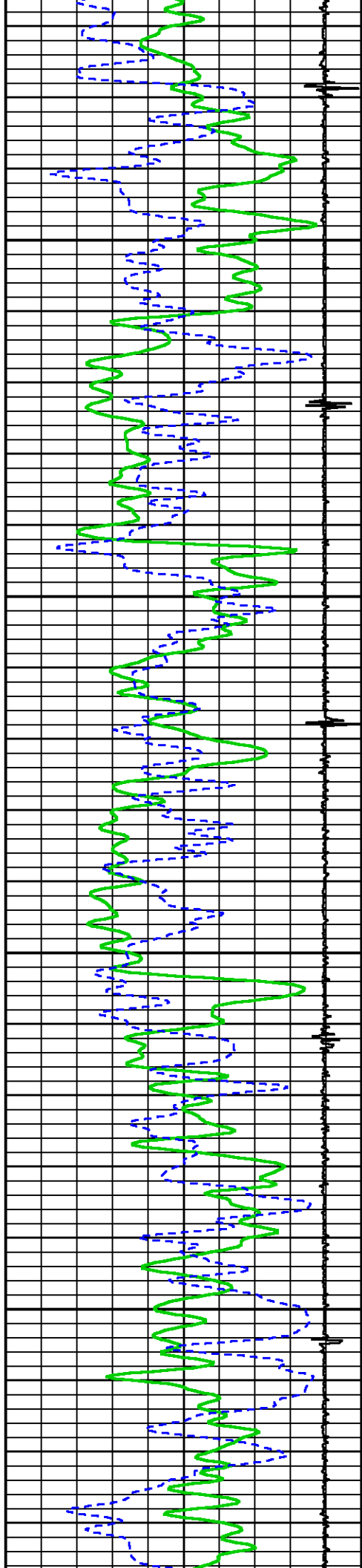
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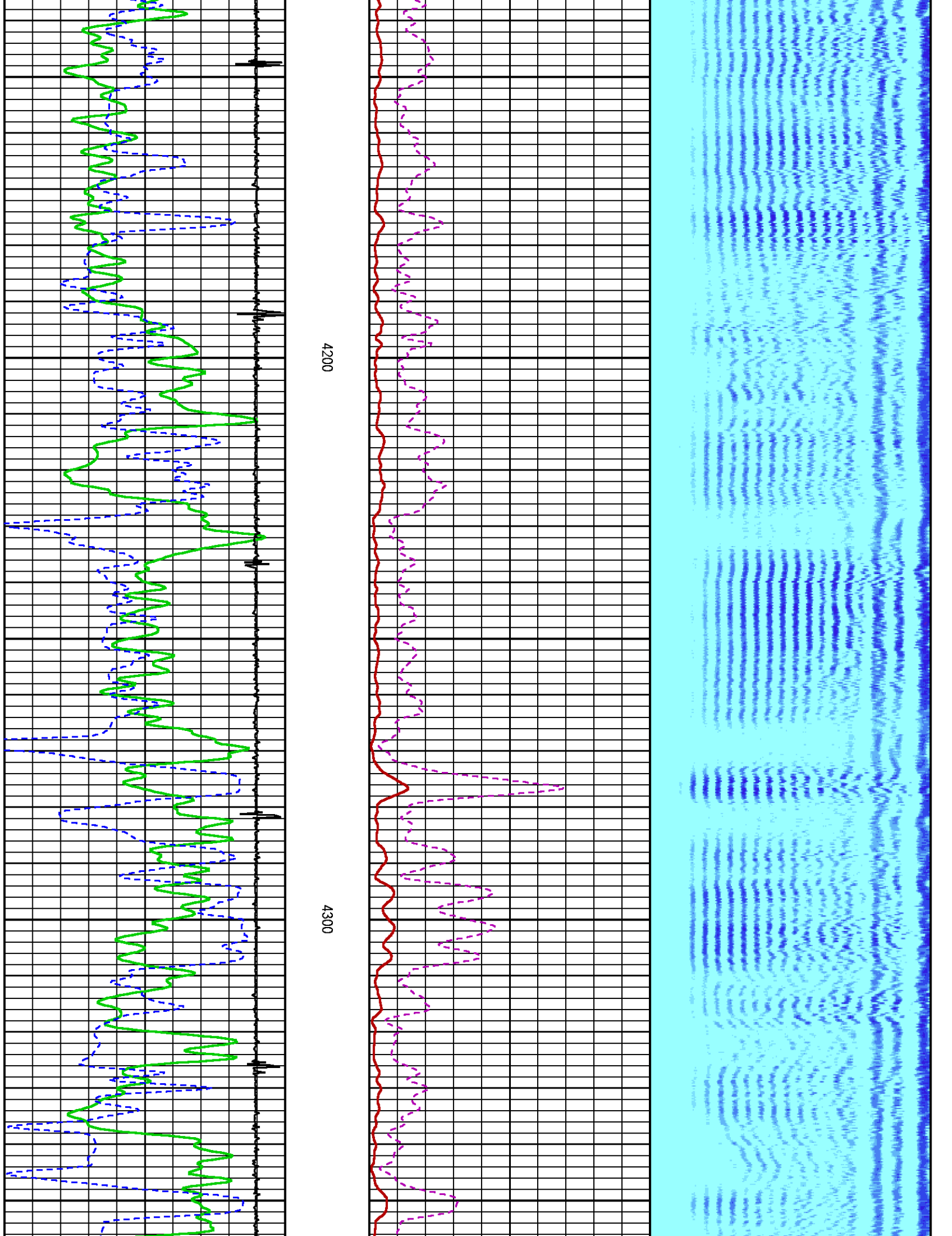


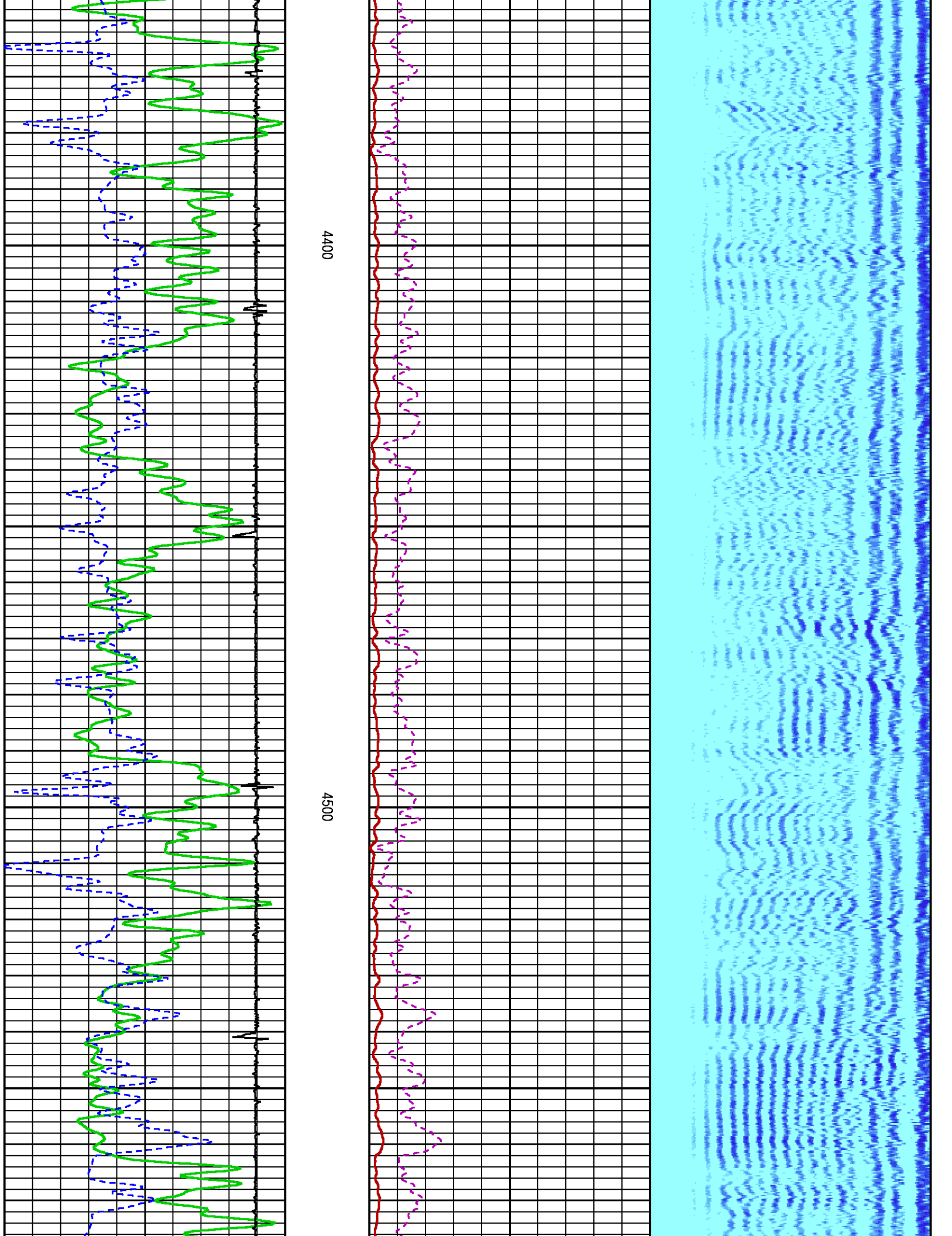


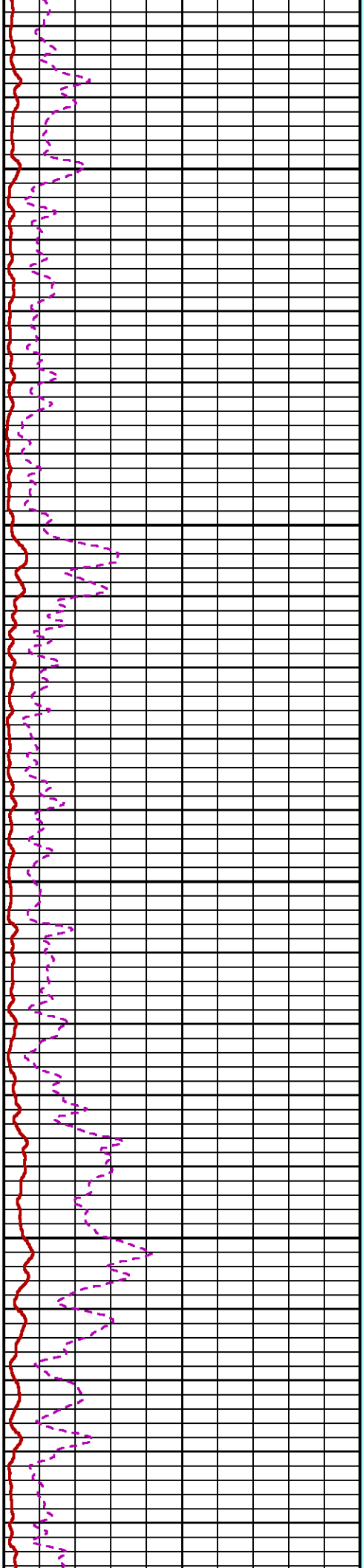
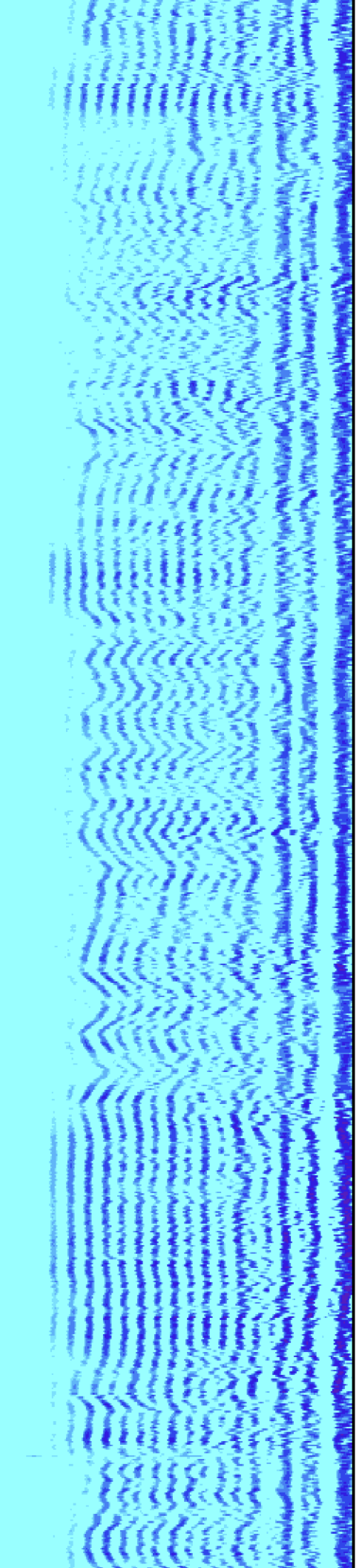
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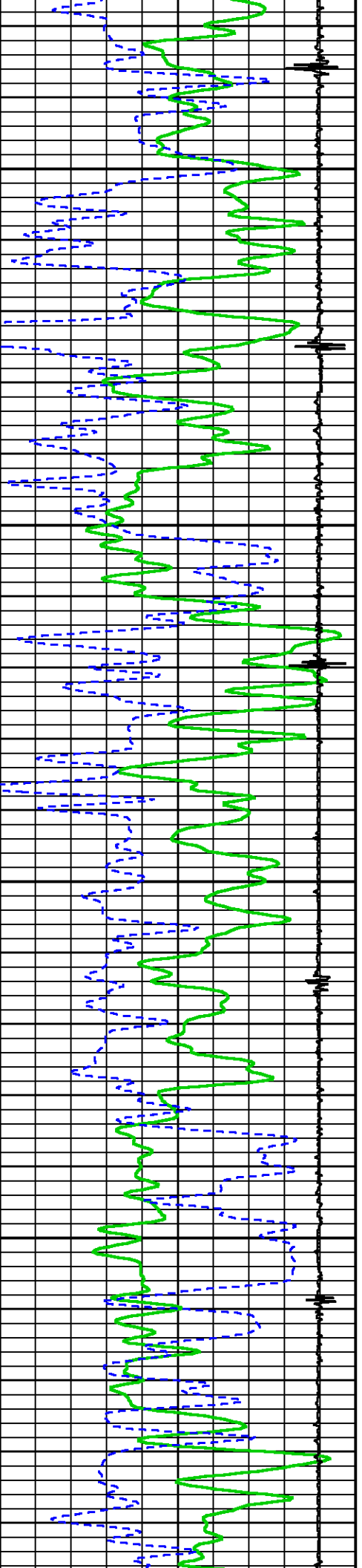


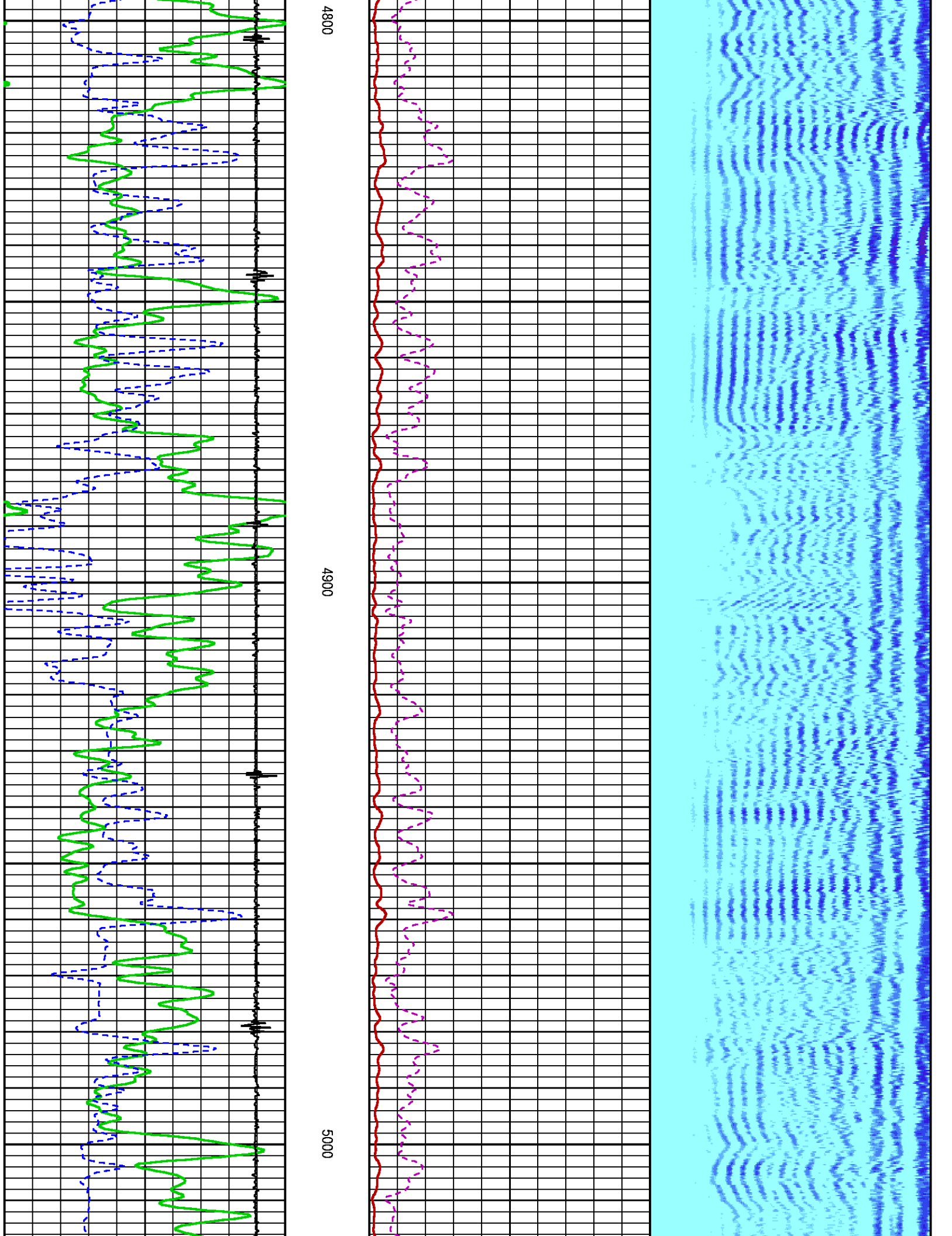


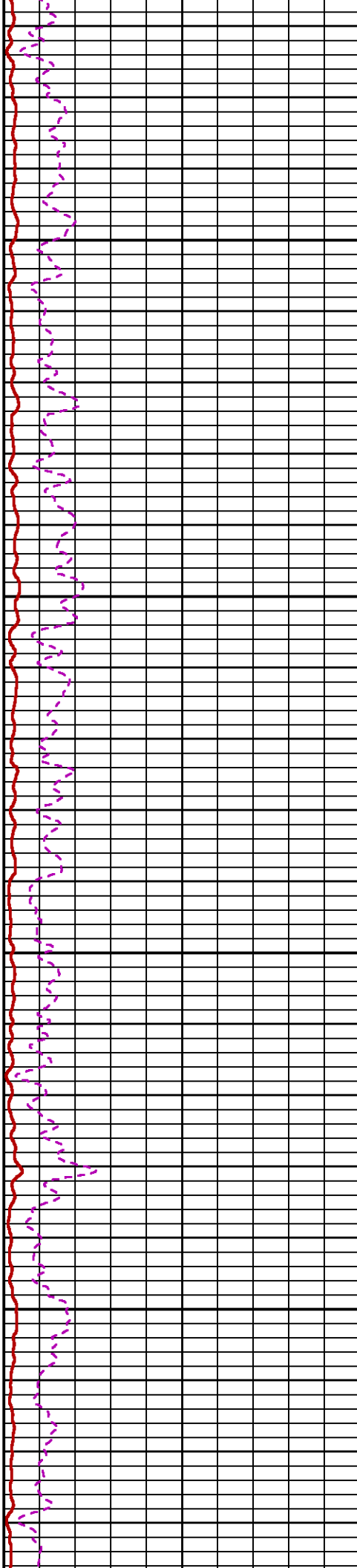
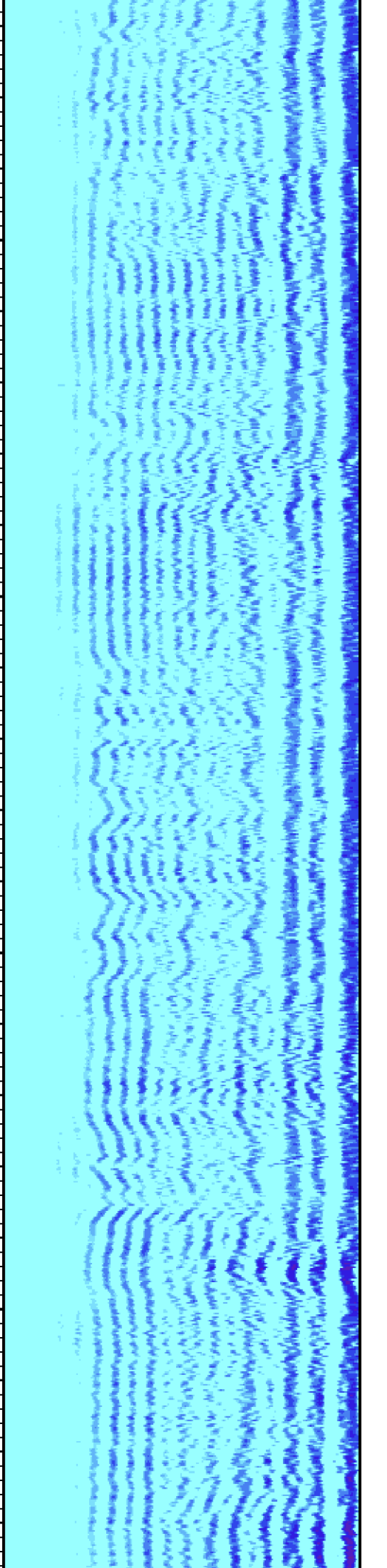


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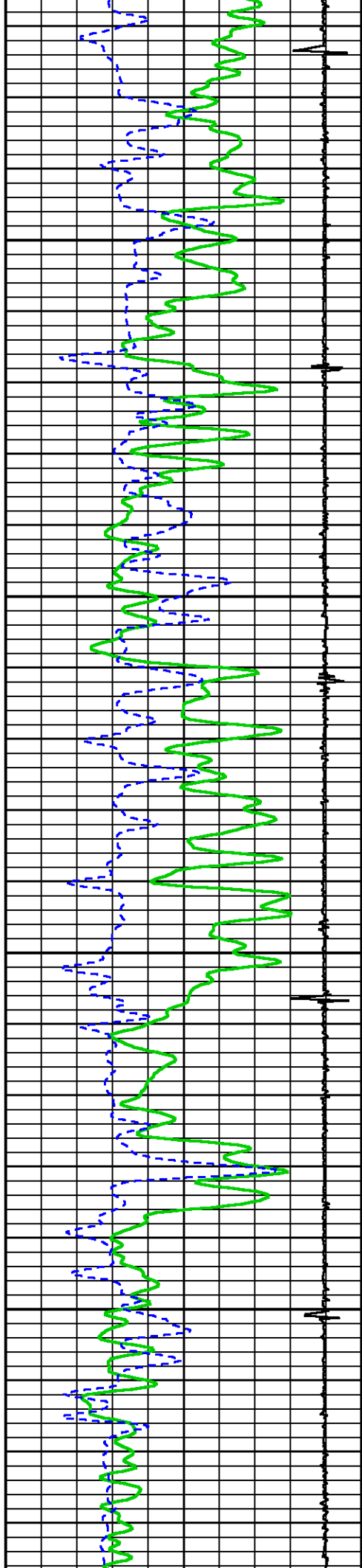


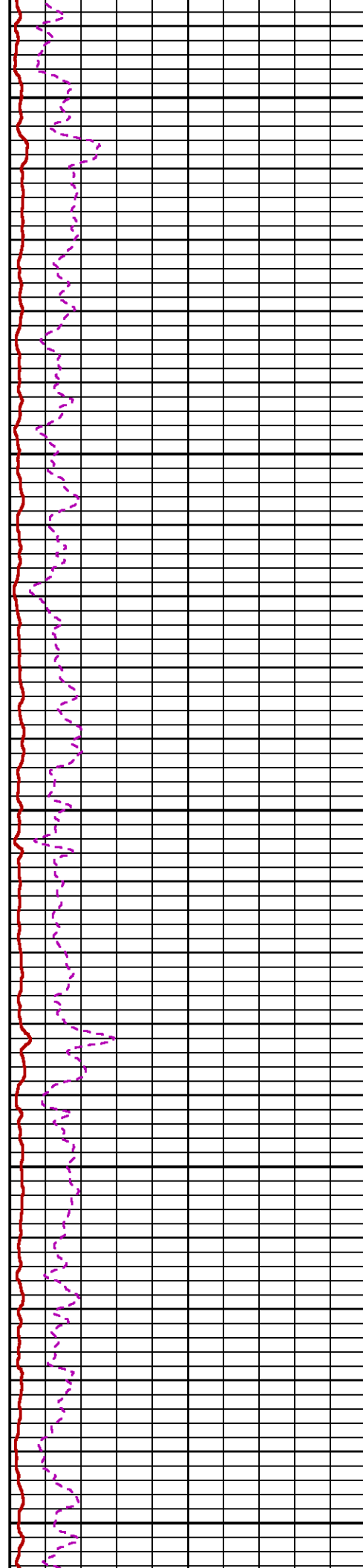
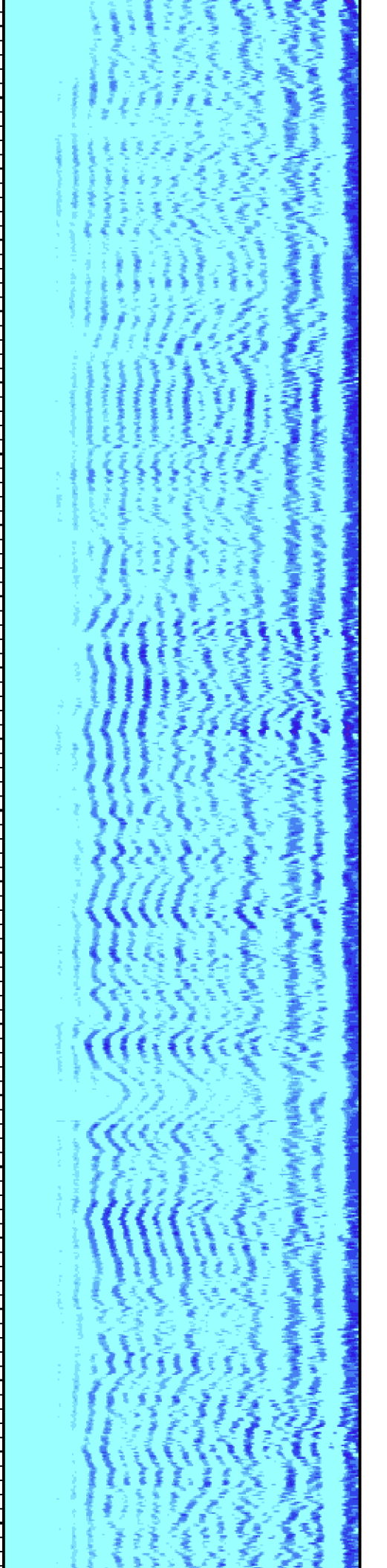




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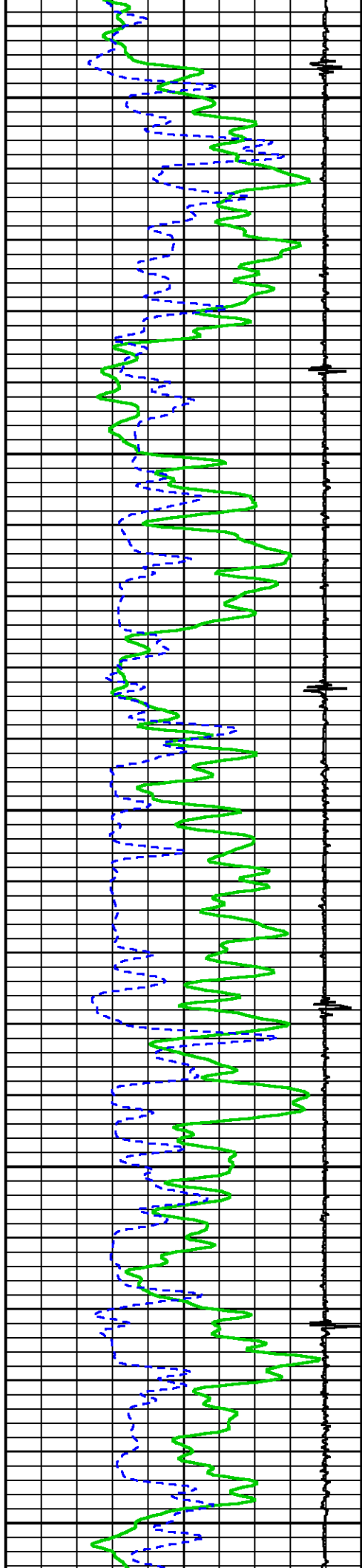
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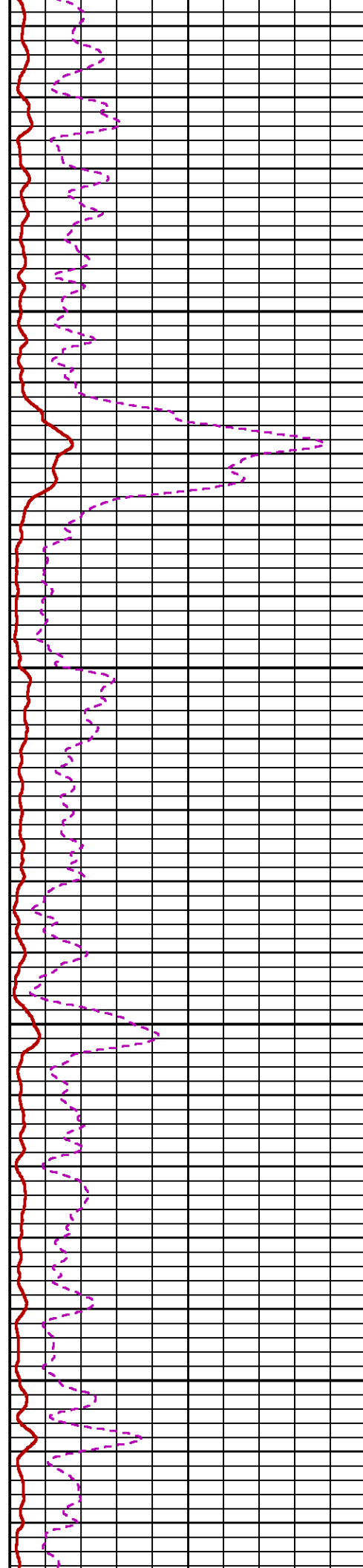
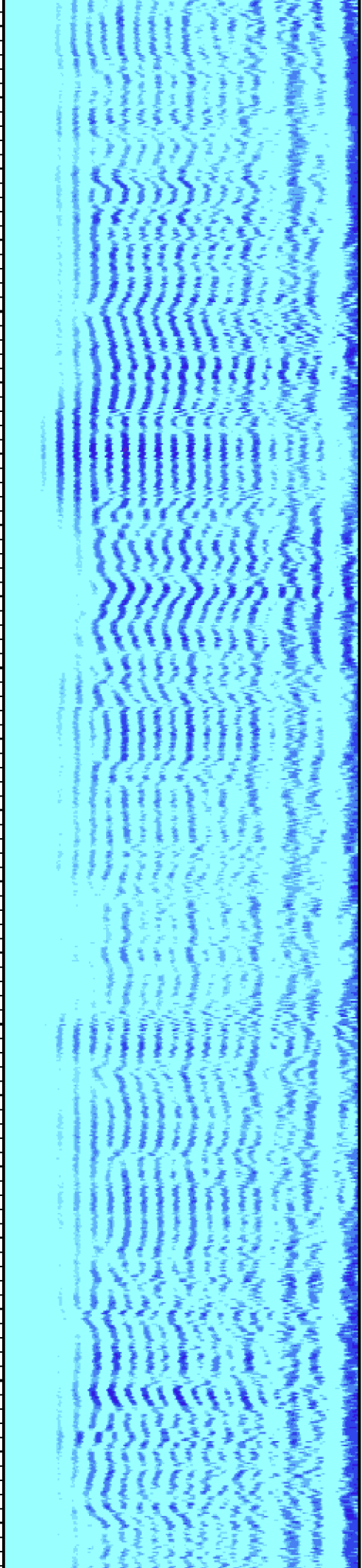




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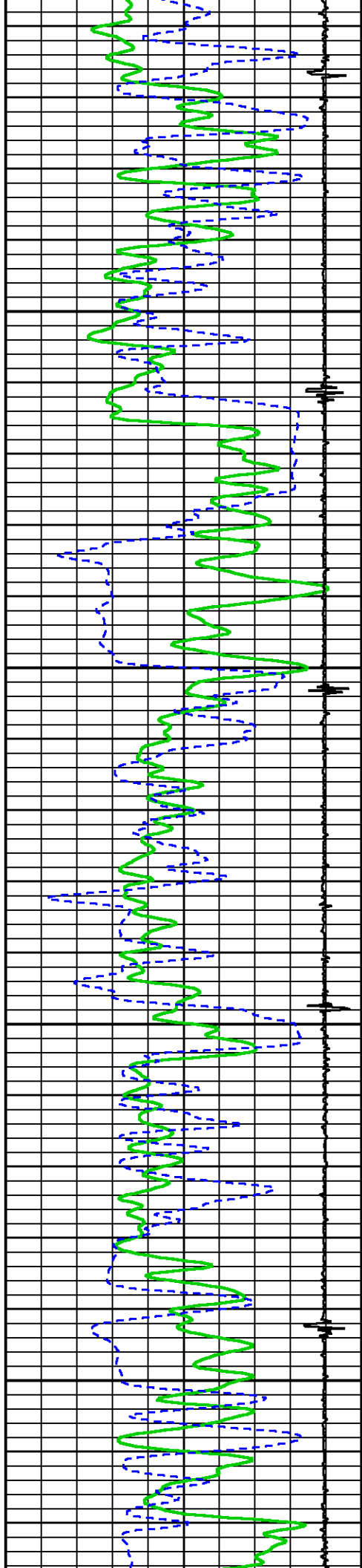
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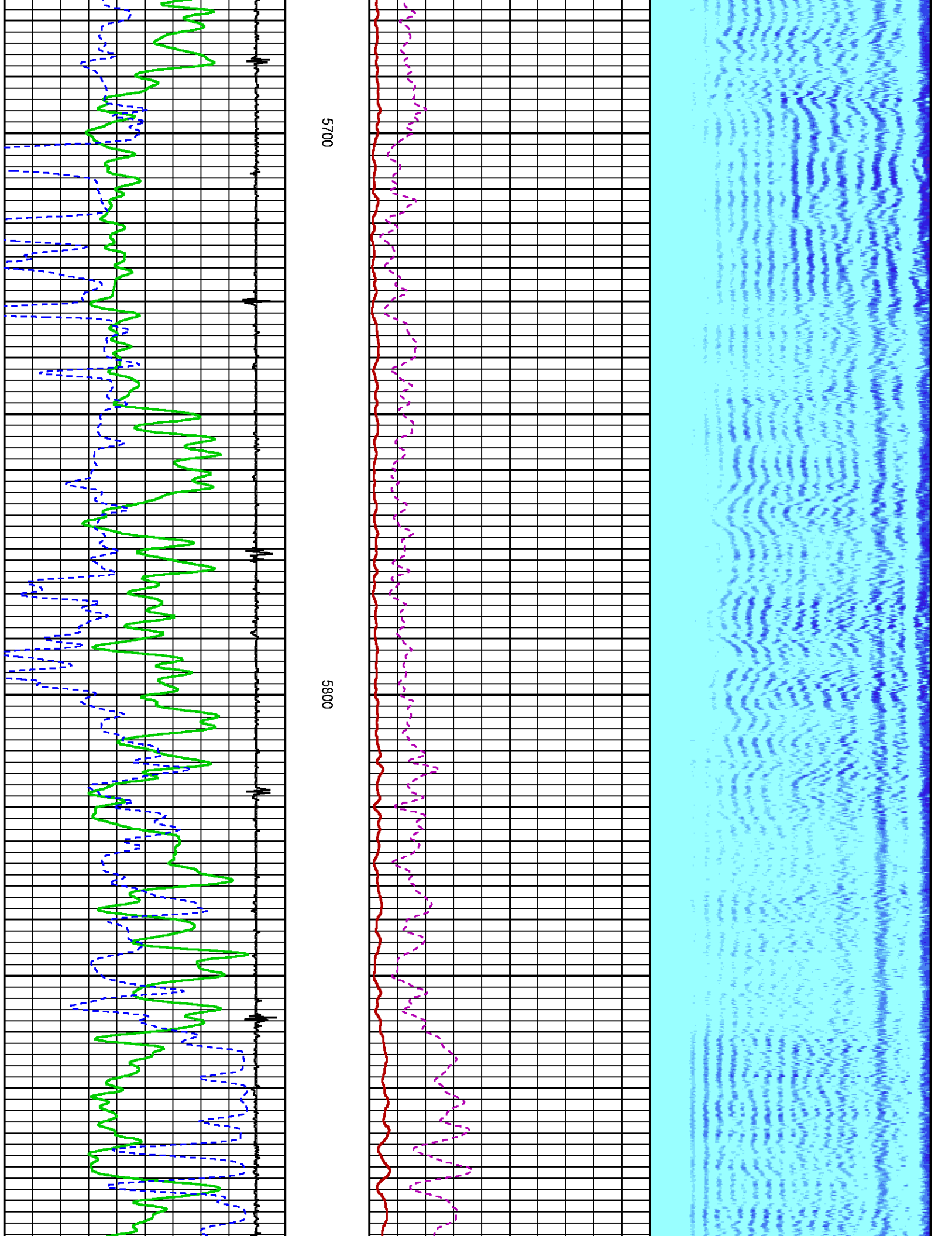


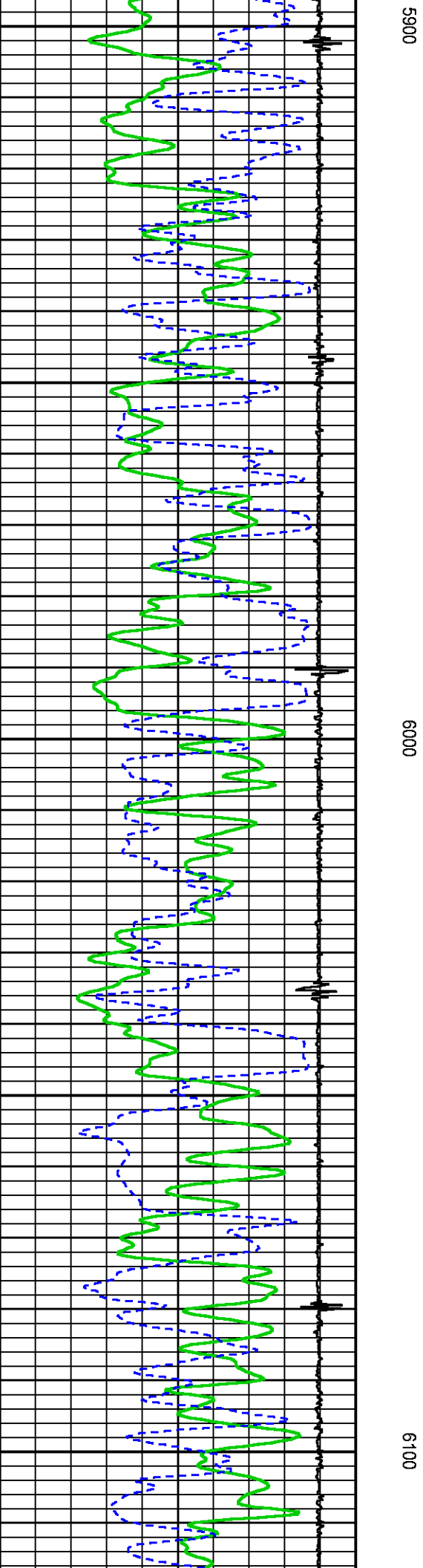
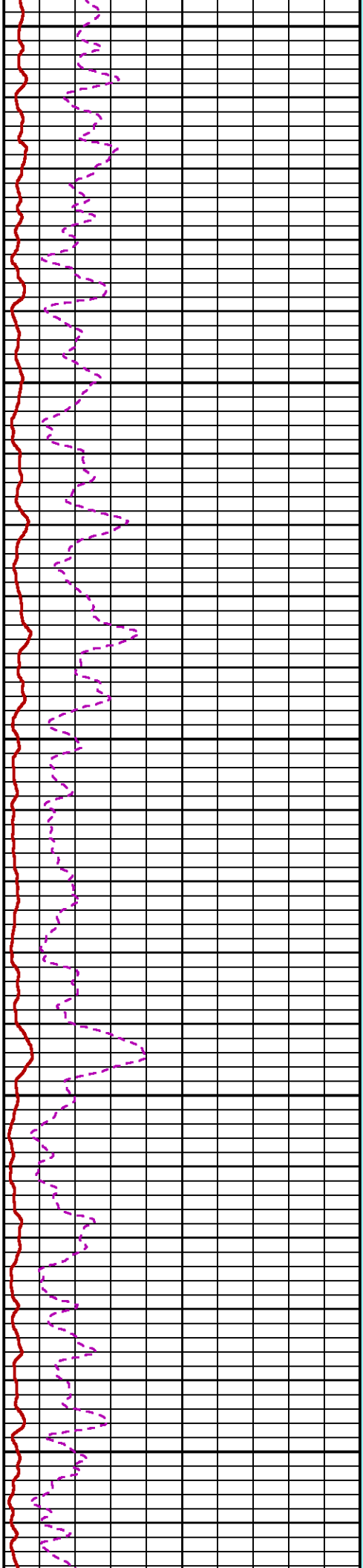
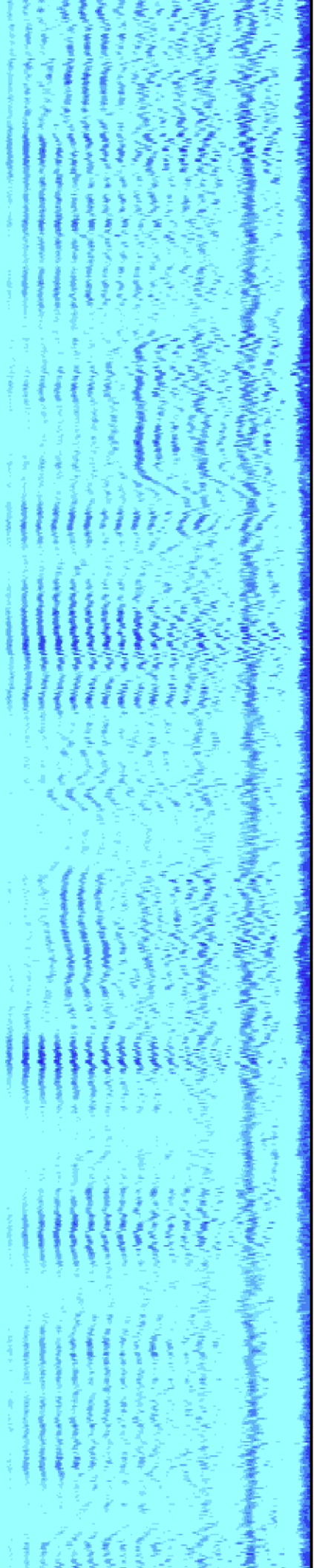


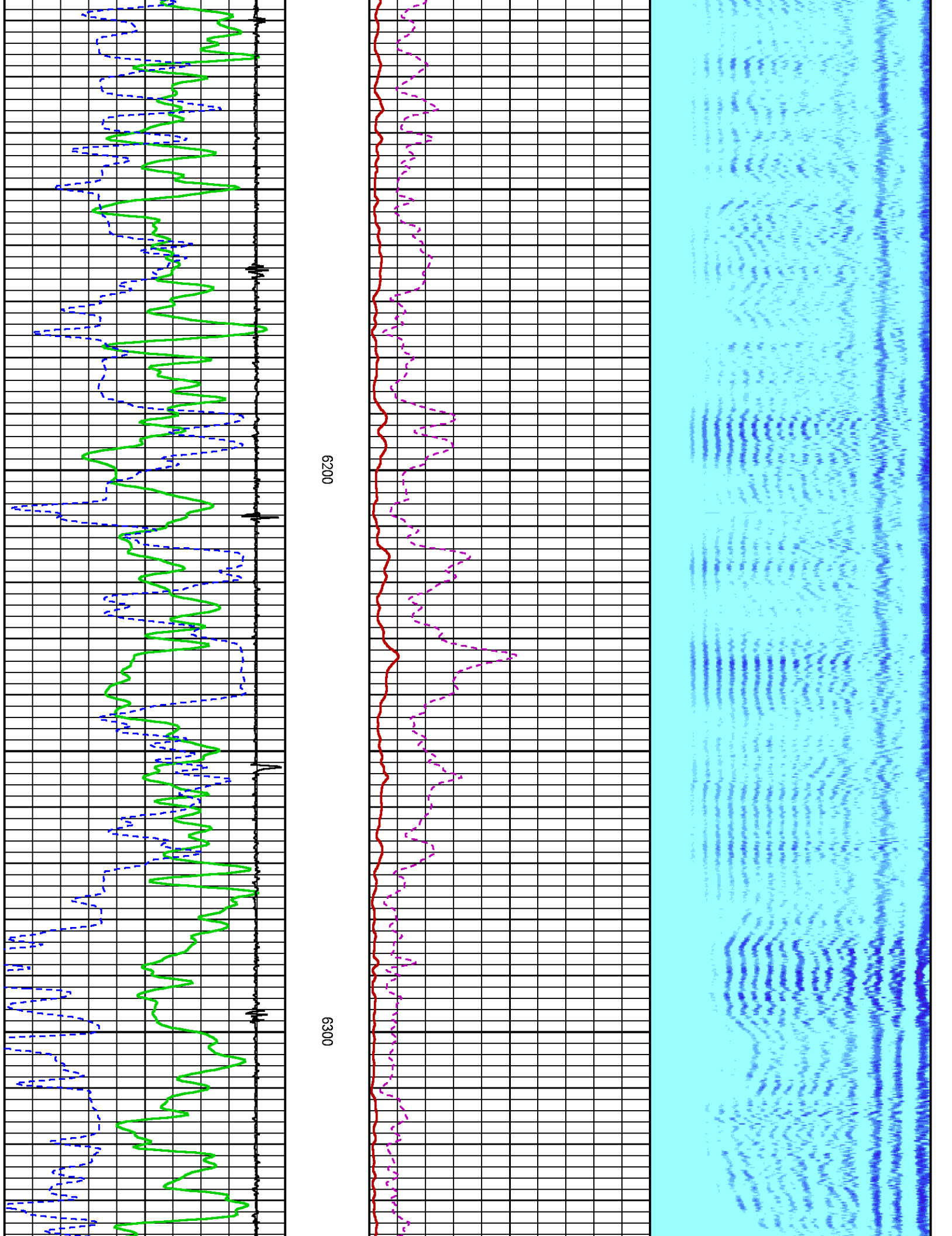
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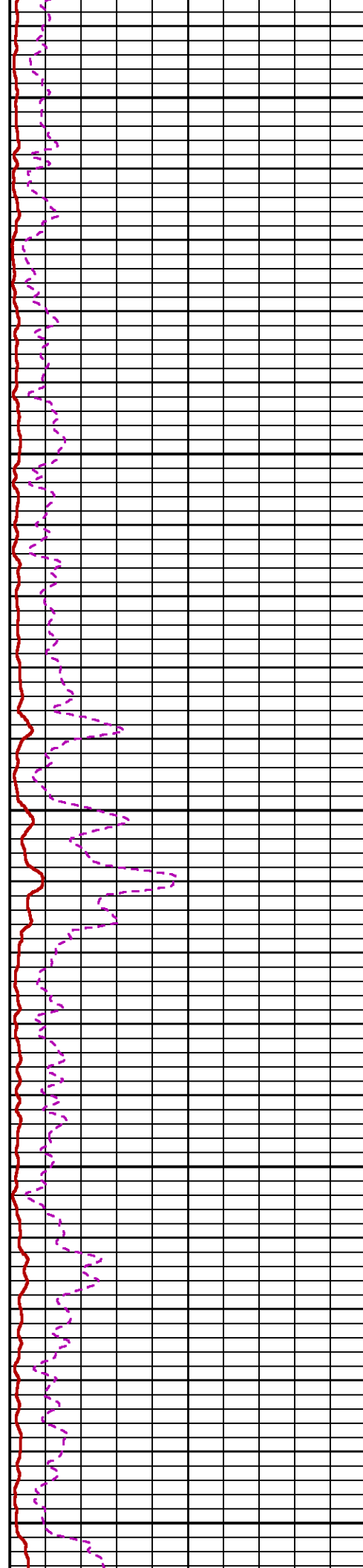
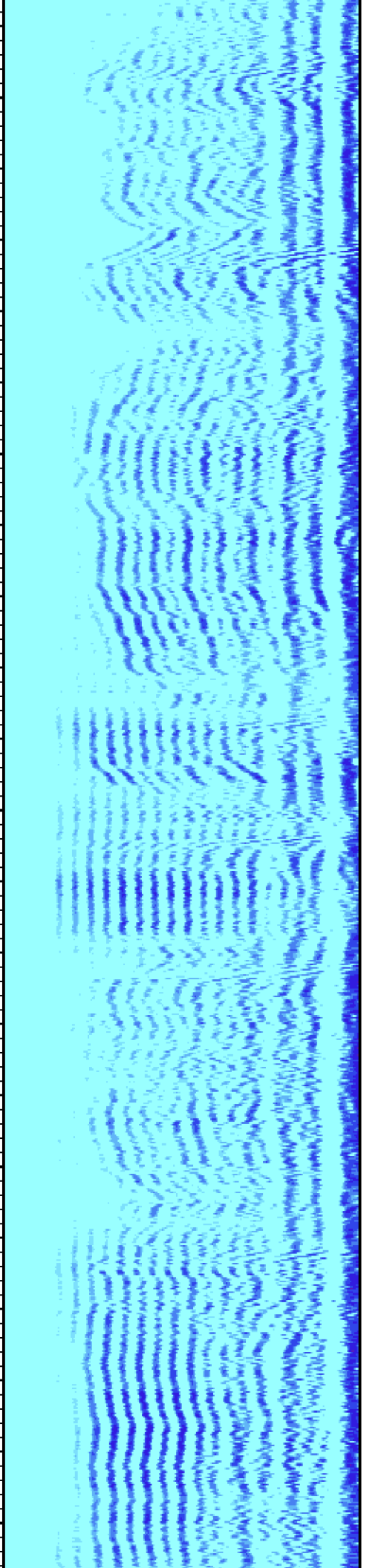
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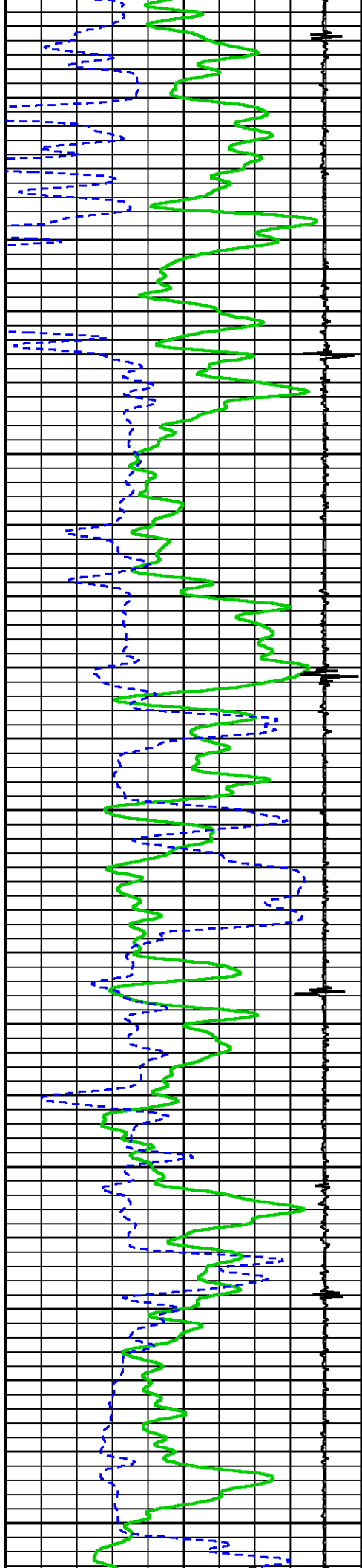


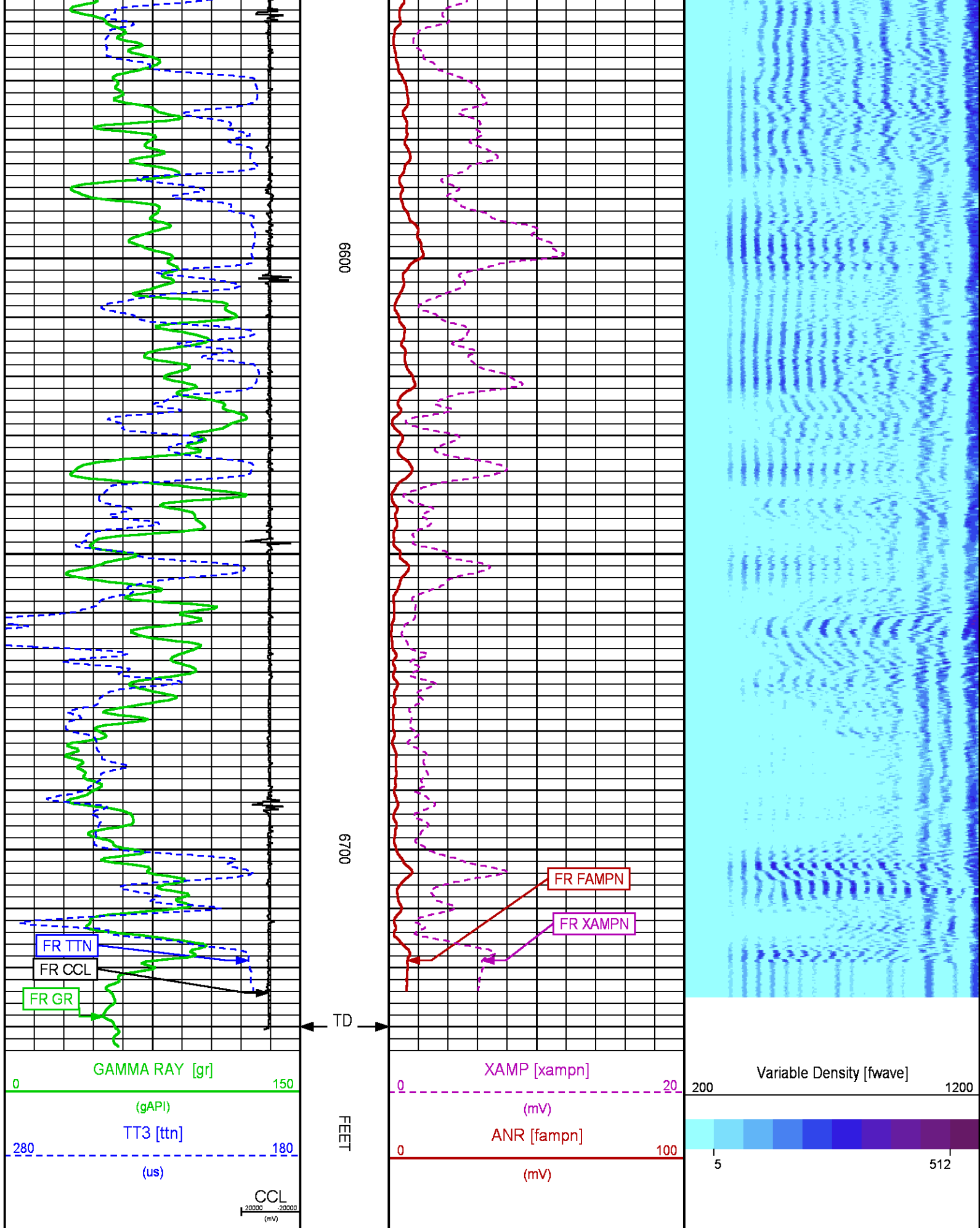




6400

6500





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: Thu Jun 23 09:37:03 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\CH107933\012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 17.000 ft BOTTOM DEPTH: 6725.750 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 (fgp1*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	173	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*)	-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	129	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 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	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jun 19 19:32:21 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 19:32:21 2016	FAR WAVE FORM
F1:GR	Jun 19 19:32:21 2016	GAMMA RAY
F1:PBMAP	Jun 19 19:32:21 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jun 19 19:32:21 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 19:32:21 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

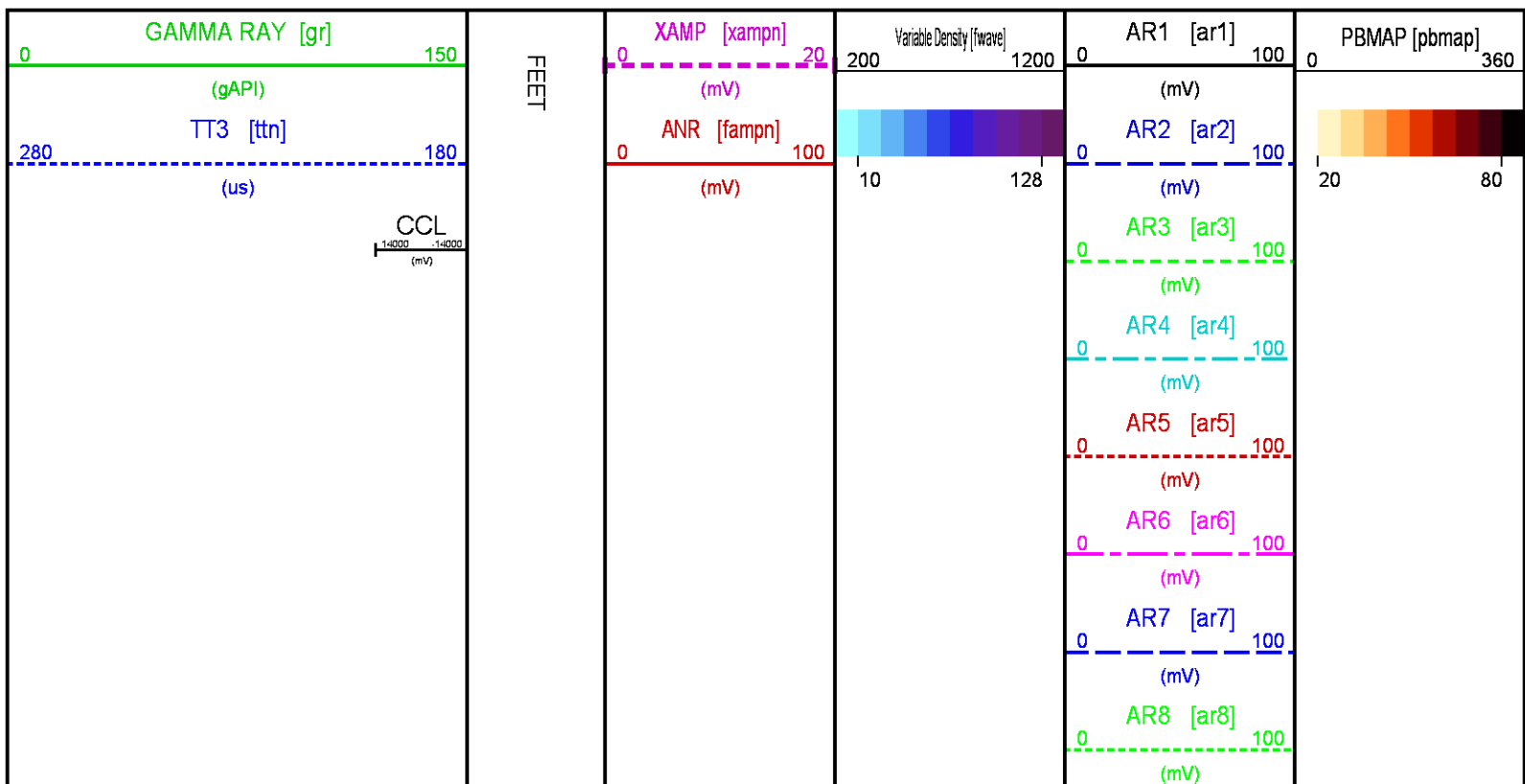
CURVE MEASURE POINT OFFSET

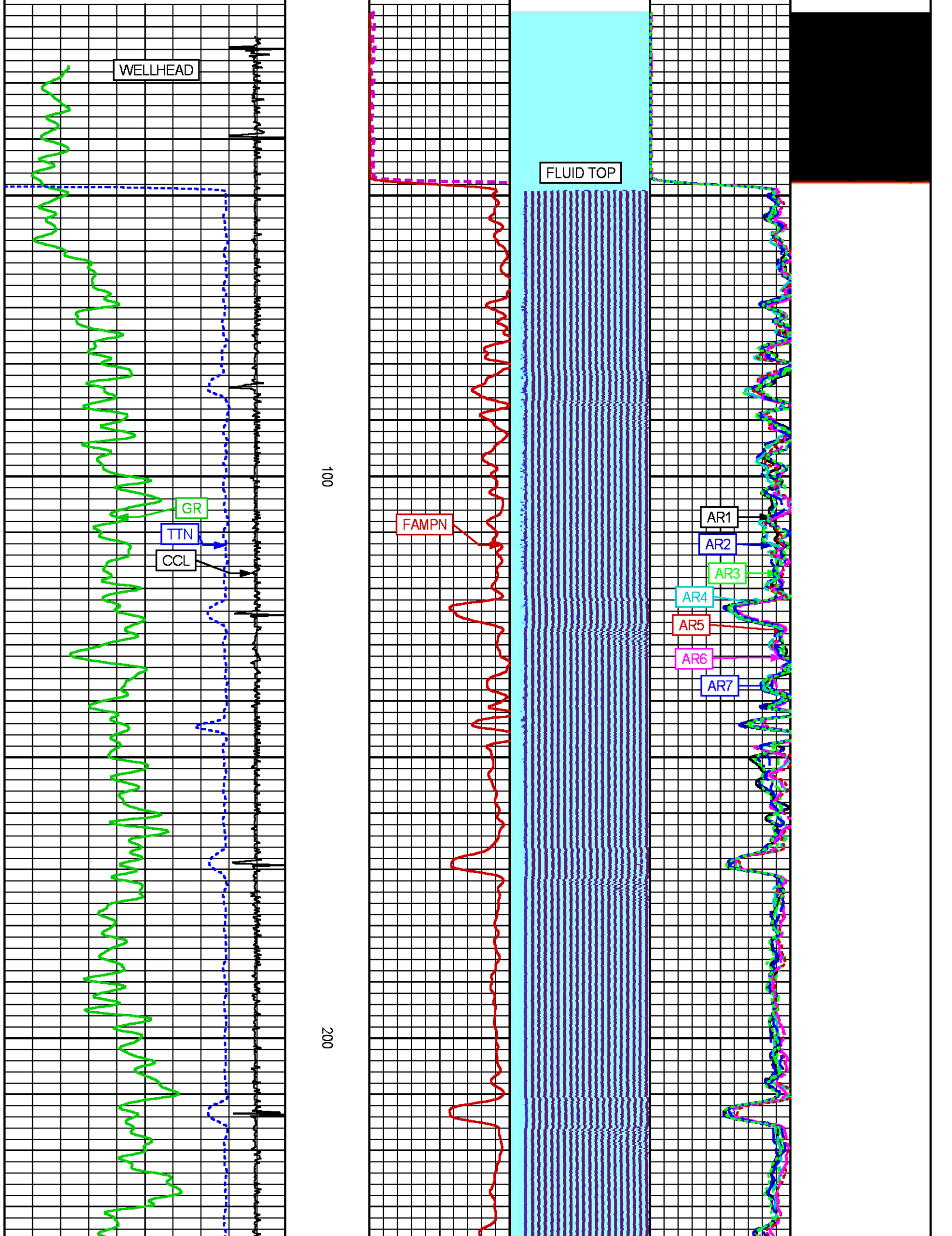
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

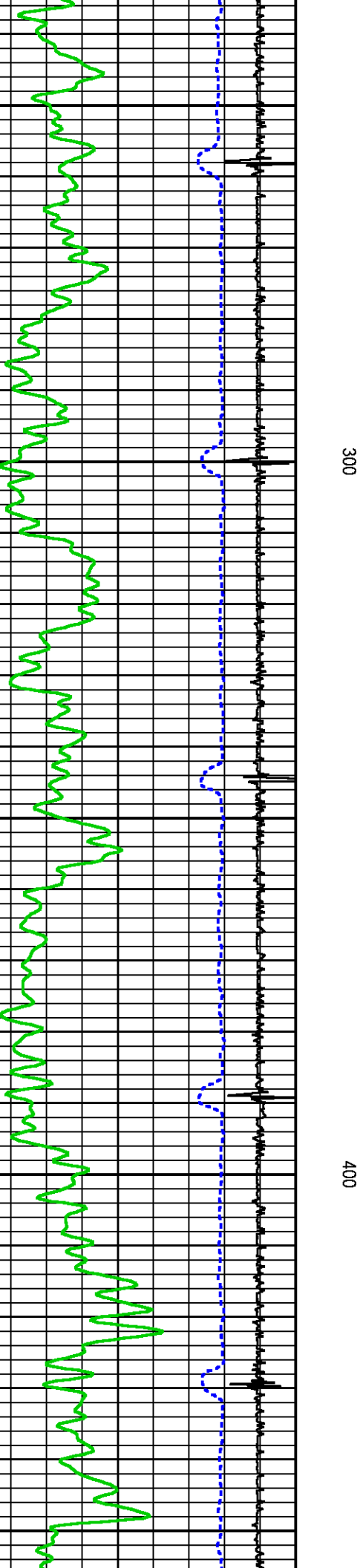
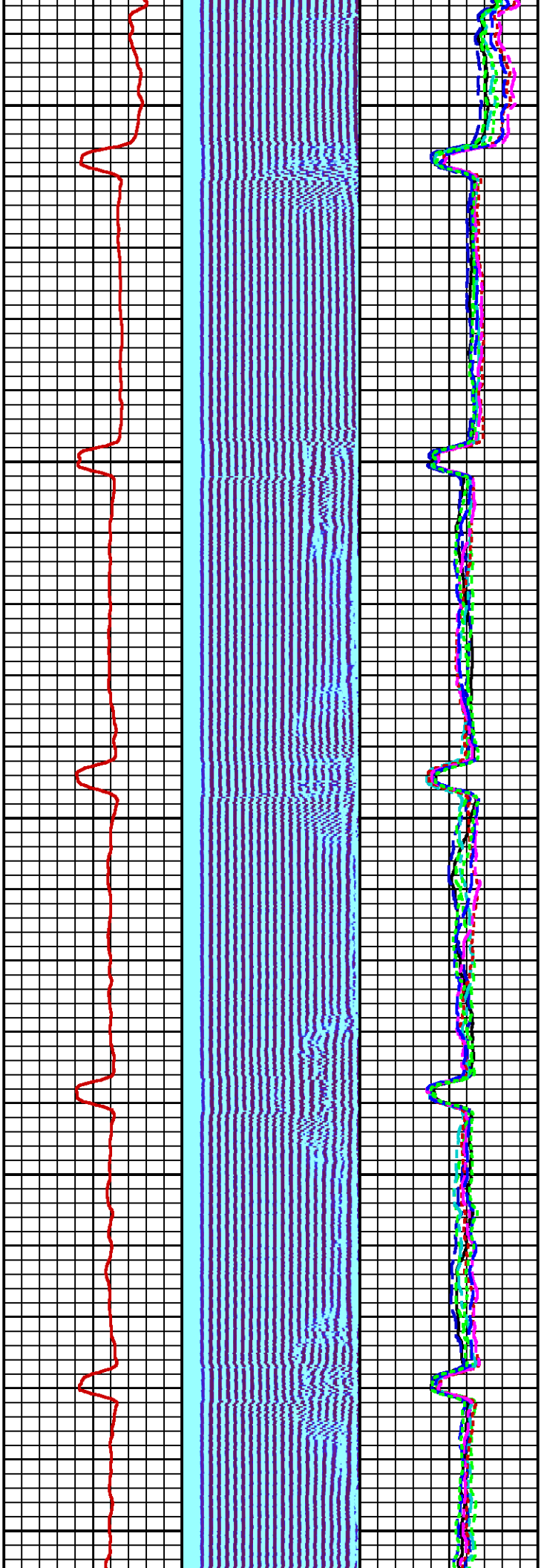
Presentation : BHID26LKX1:C:\dat1a\CH107933\WPX_secondary-ral.fvpdf [5"/100' Scale]

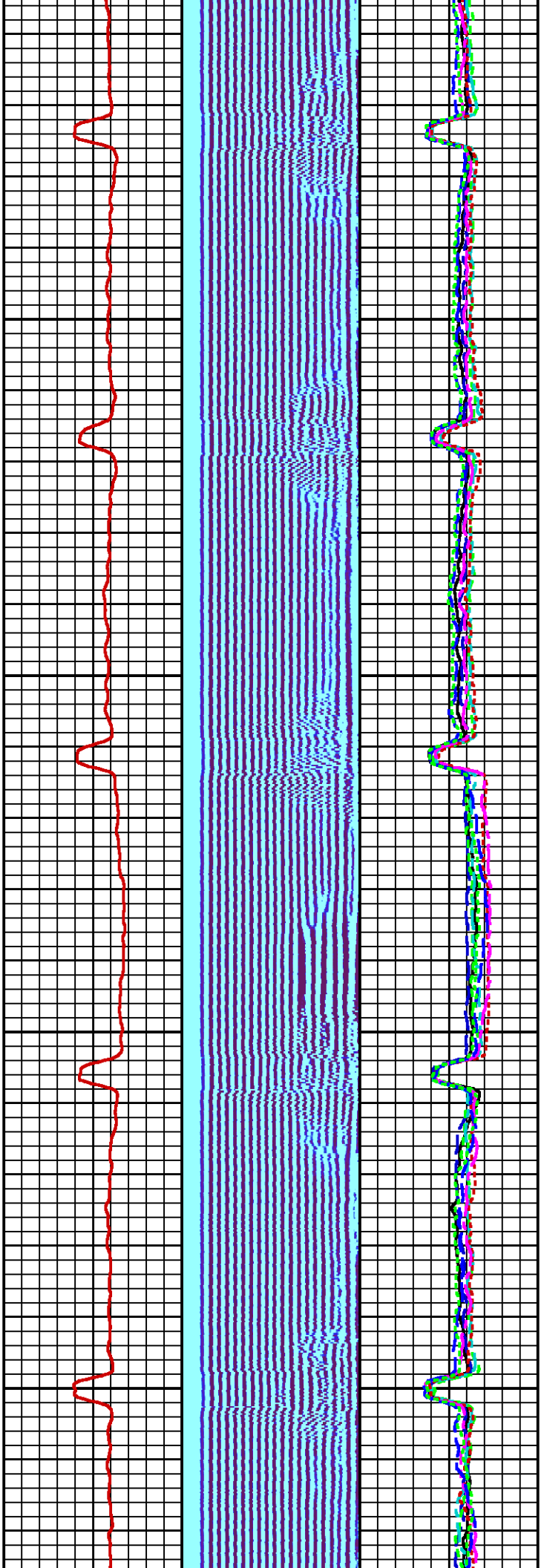
Plot Interval : 17.25 - 6735 Feet

Data File 1 : F1 : BHID26LKX1:C:\dat1a\CH107933\012g02_MAIN.xtf
Created On : Jun 19 19:32:21 2016
Company : WPX ENERGY
Well : FEDERAL GM 442-8
Field : GRAND VALLEY
File Interval : 16.25 - 6736.25 Feet
OCT : n012g



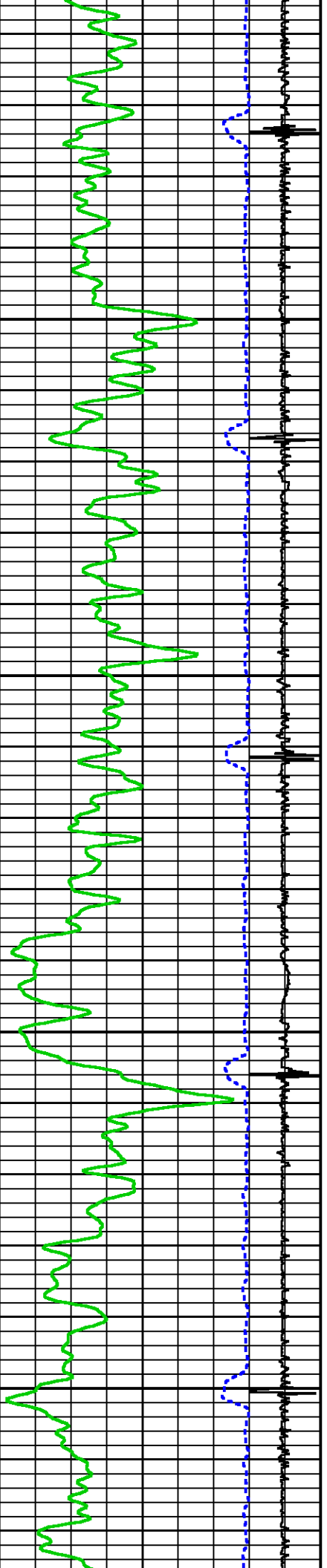


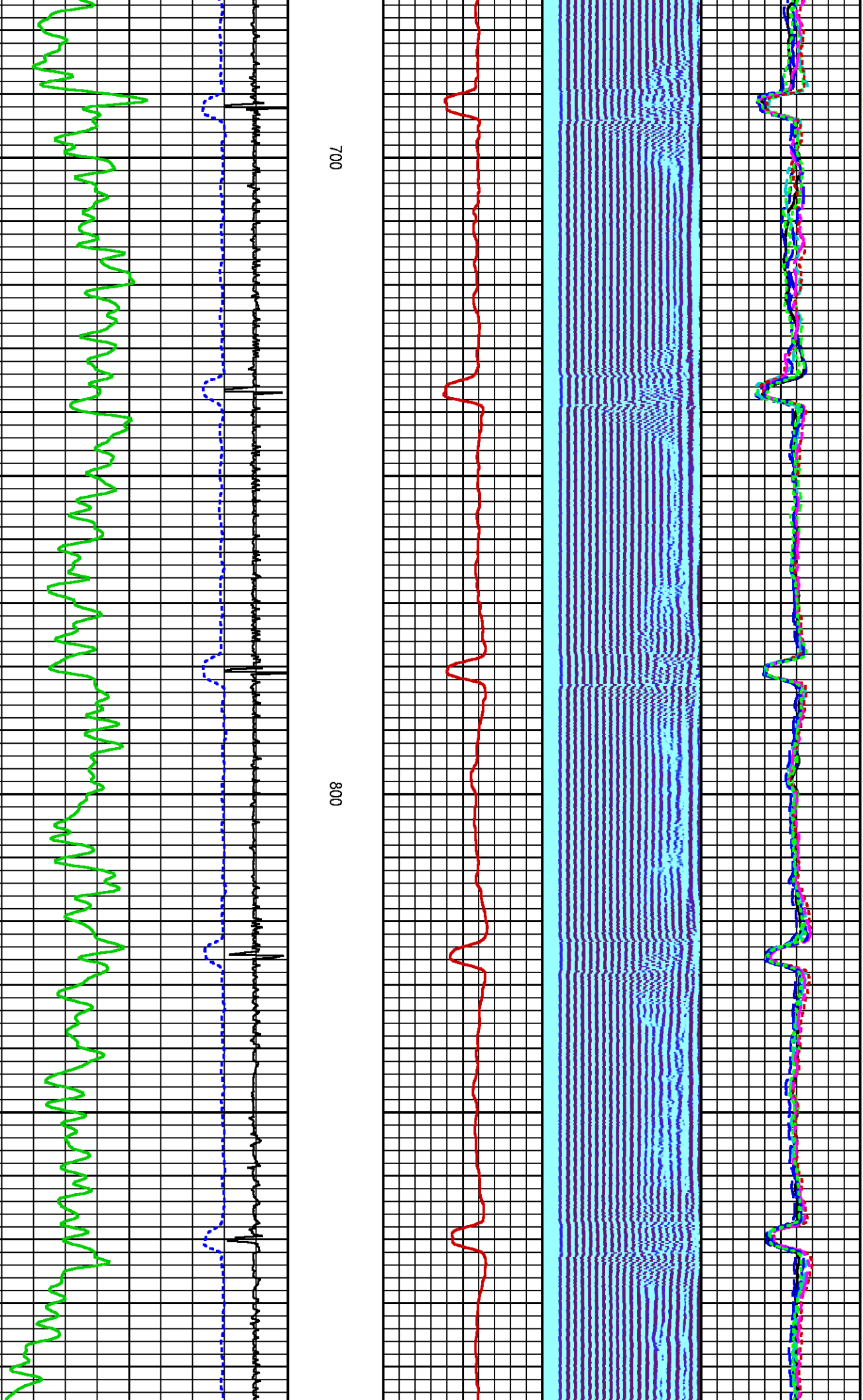


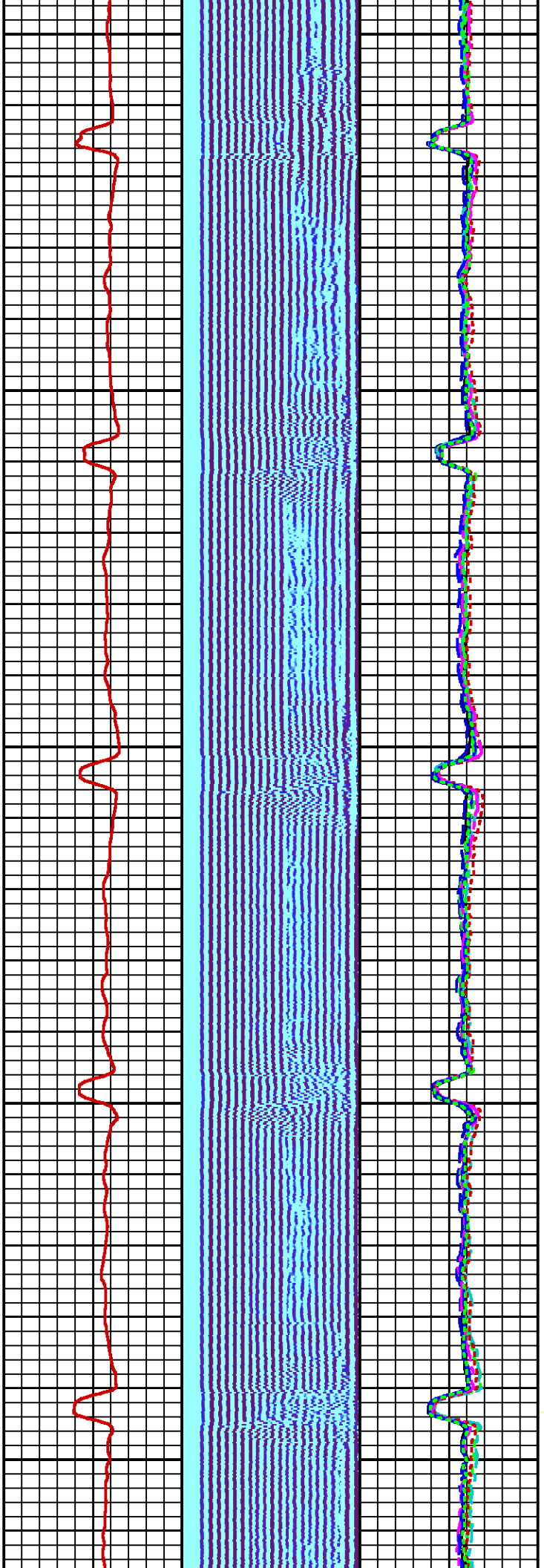


500

600



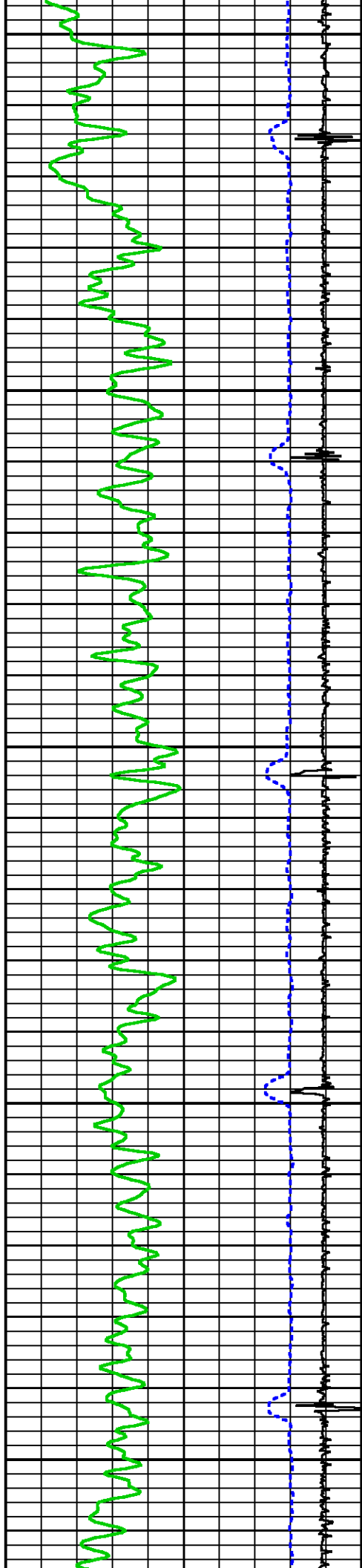


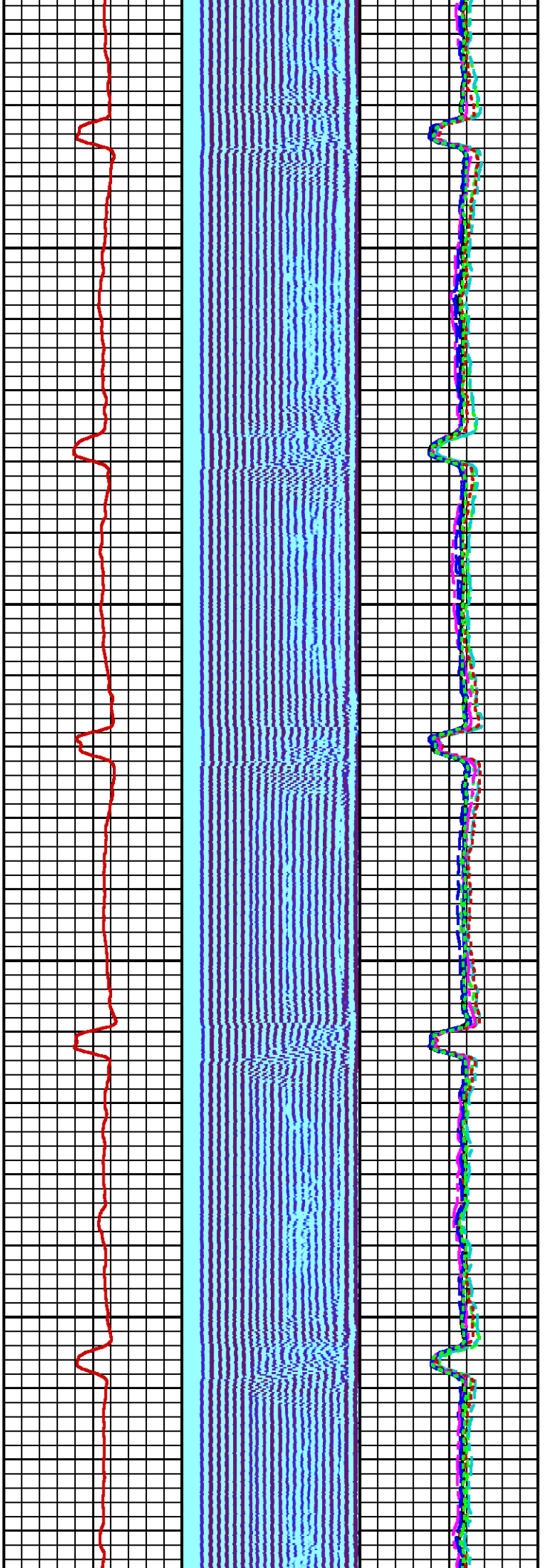


900

1000

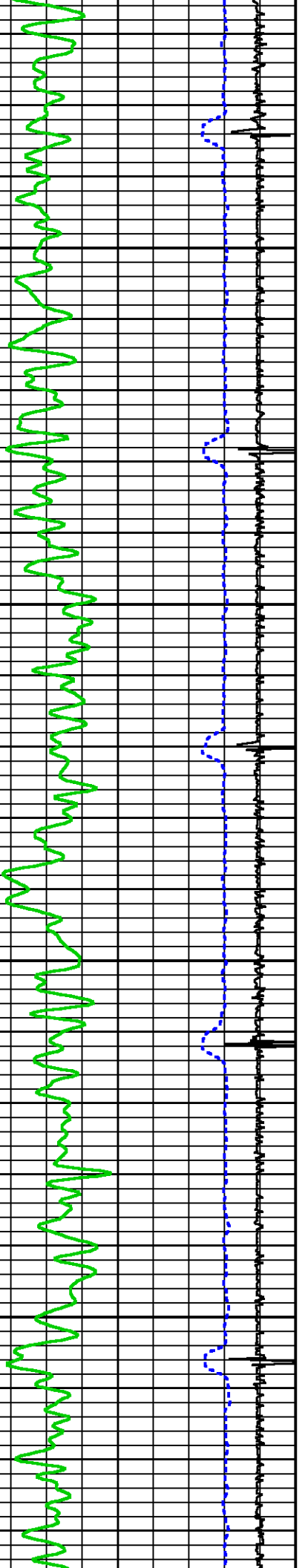
1100

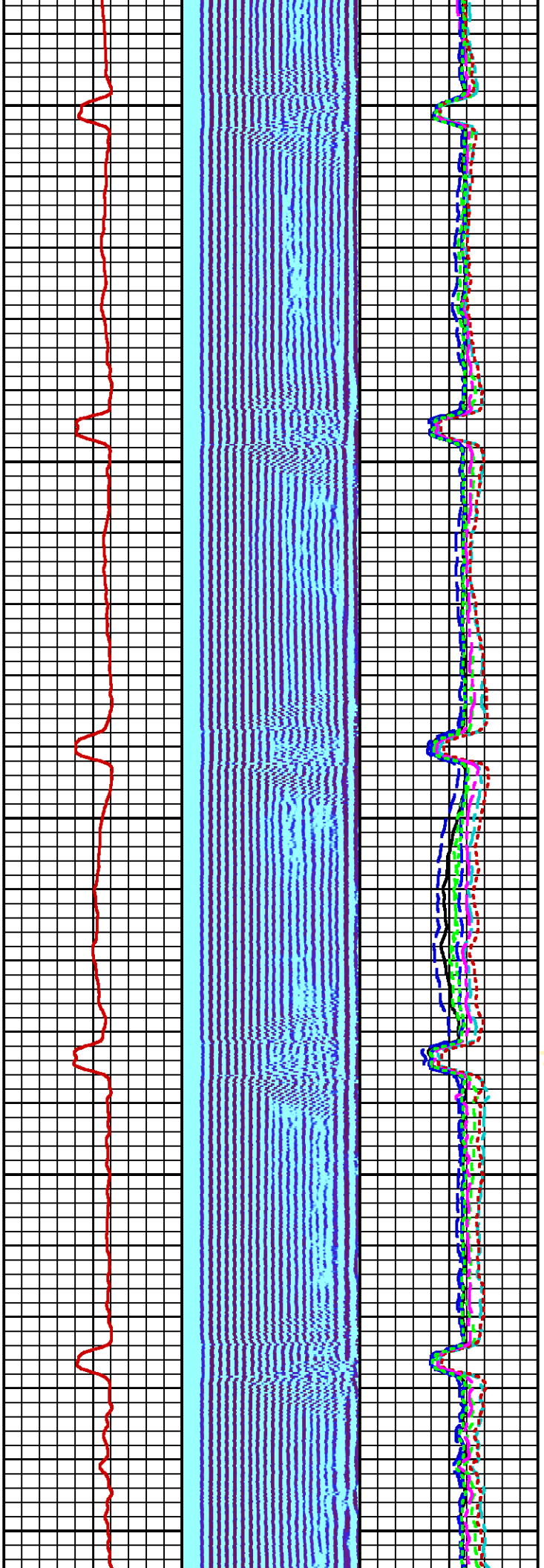




1200

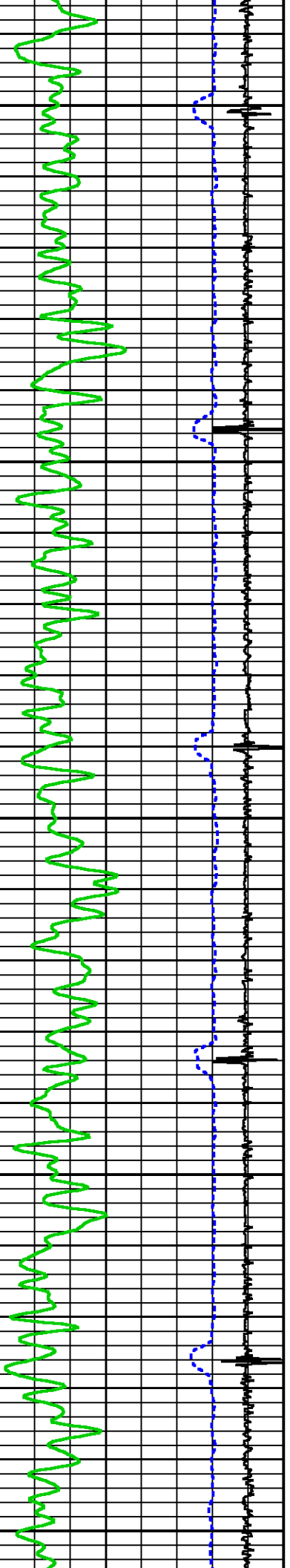
1300

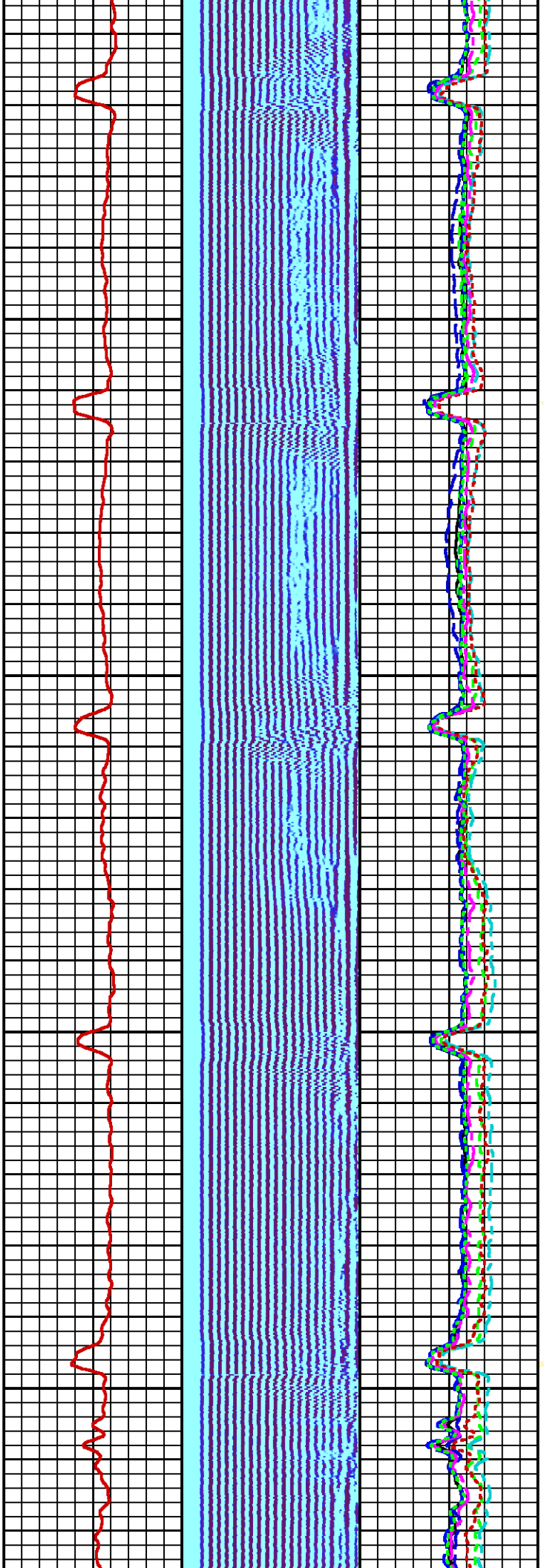




1400

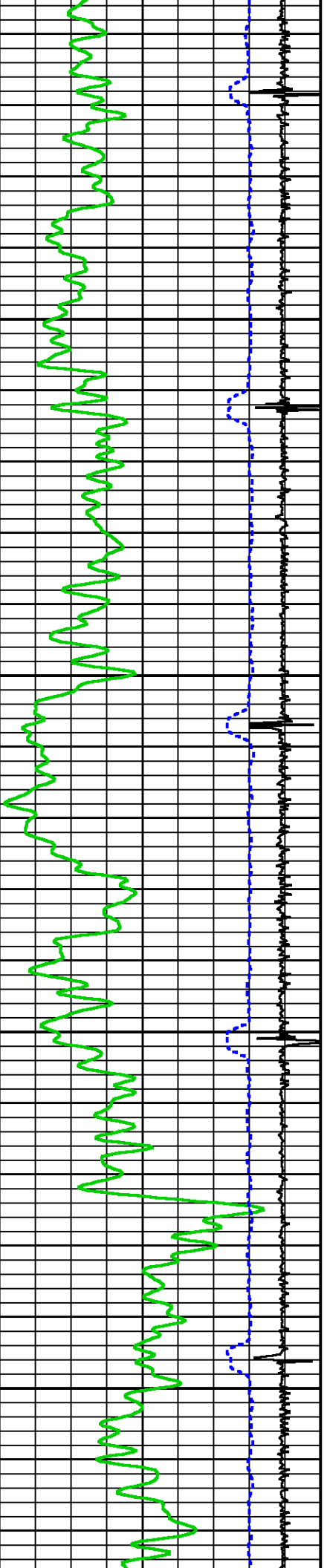
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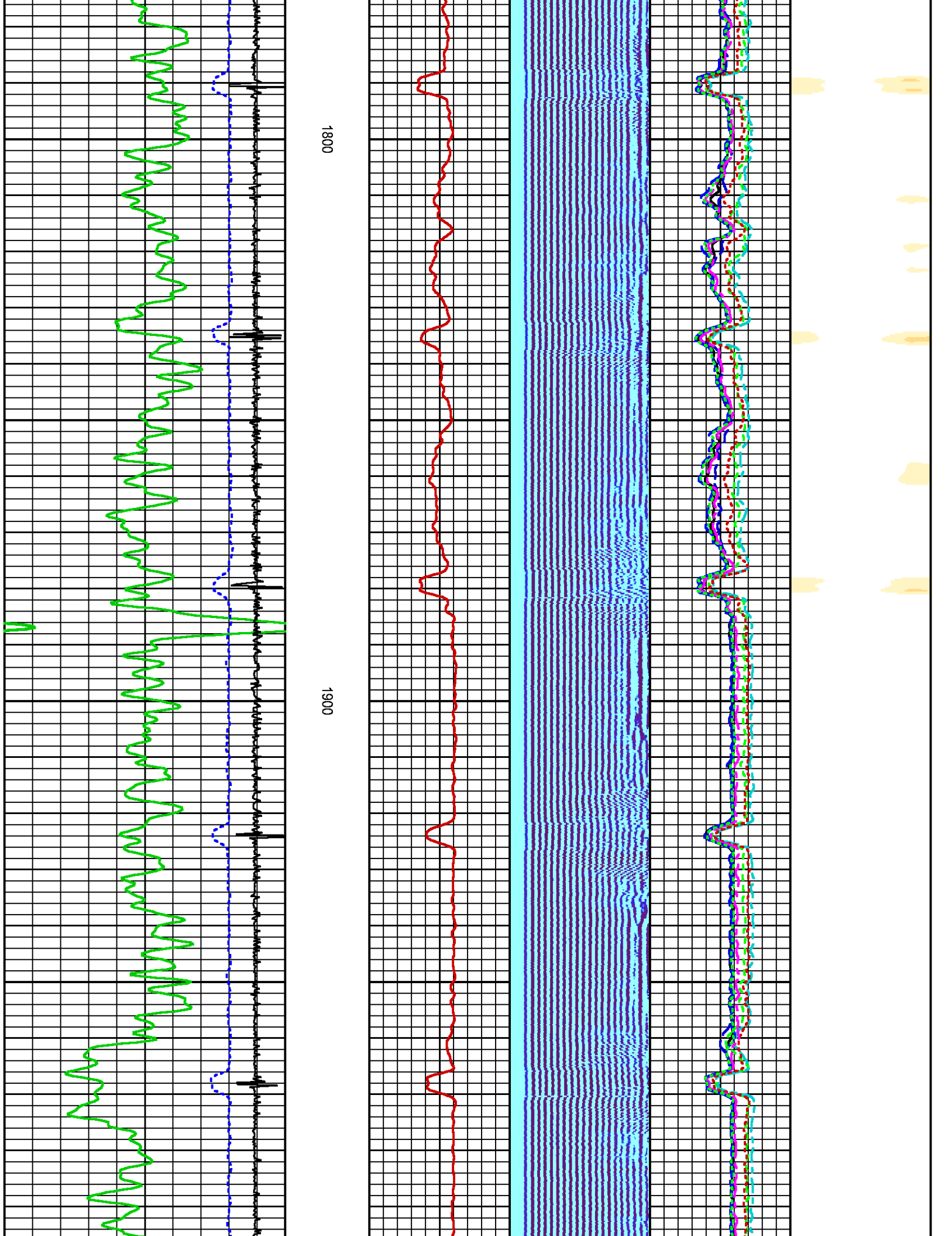


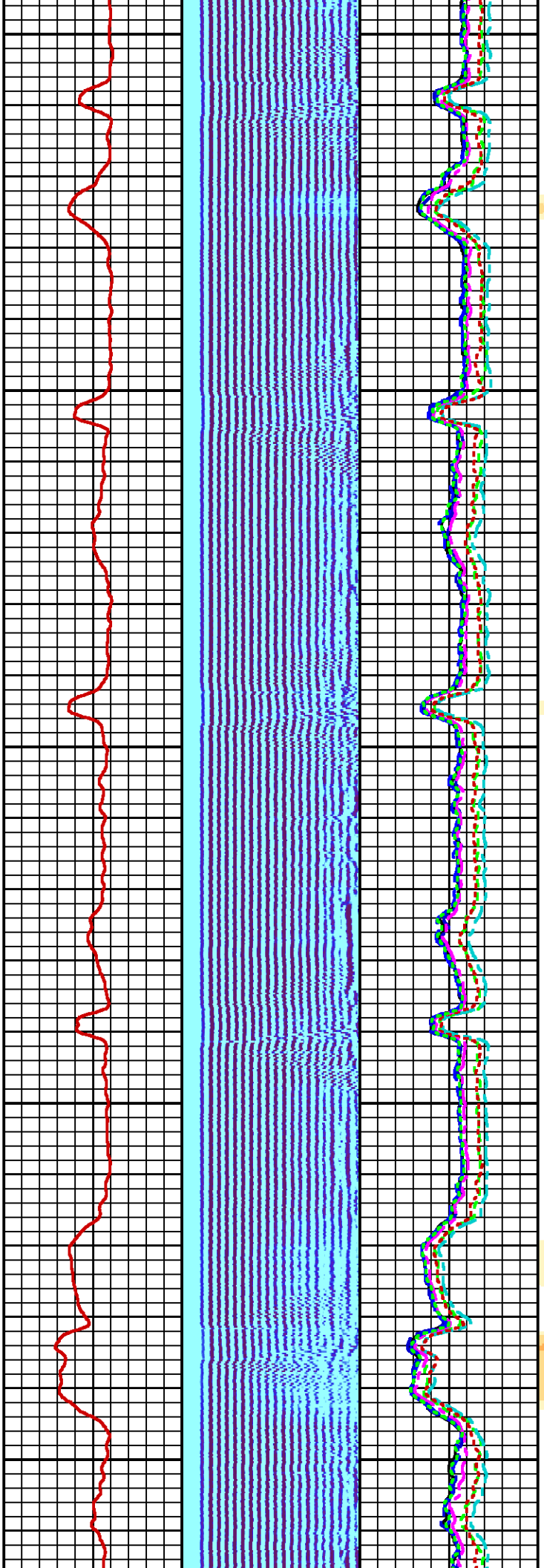


1600

1700



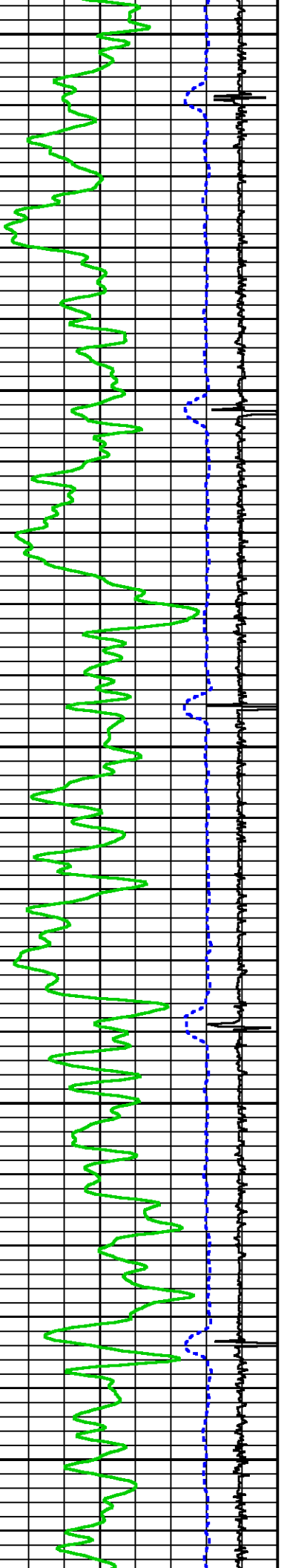


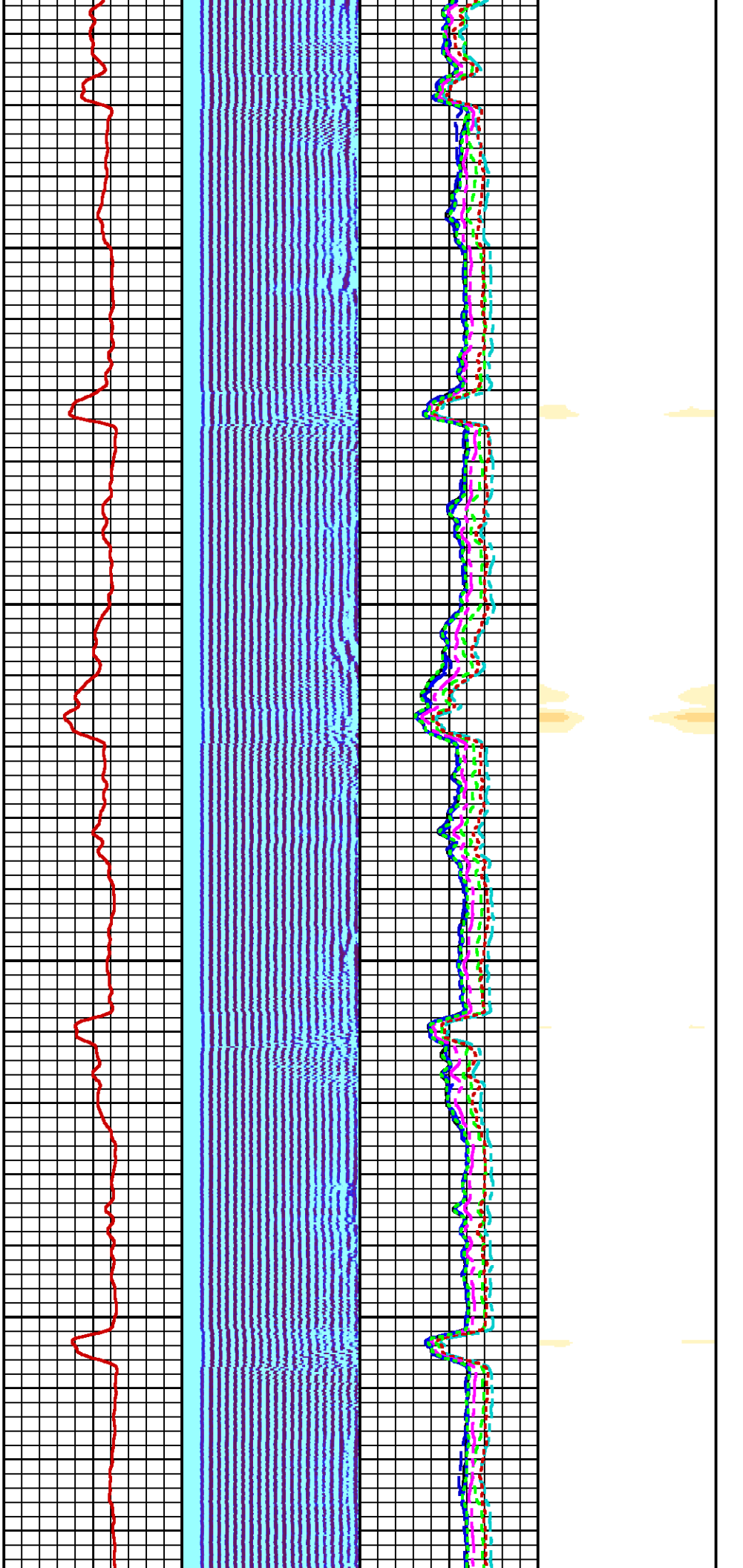


2000

2100

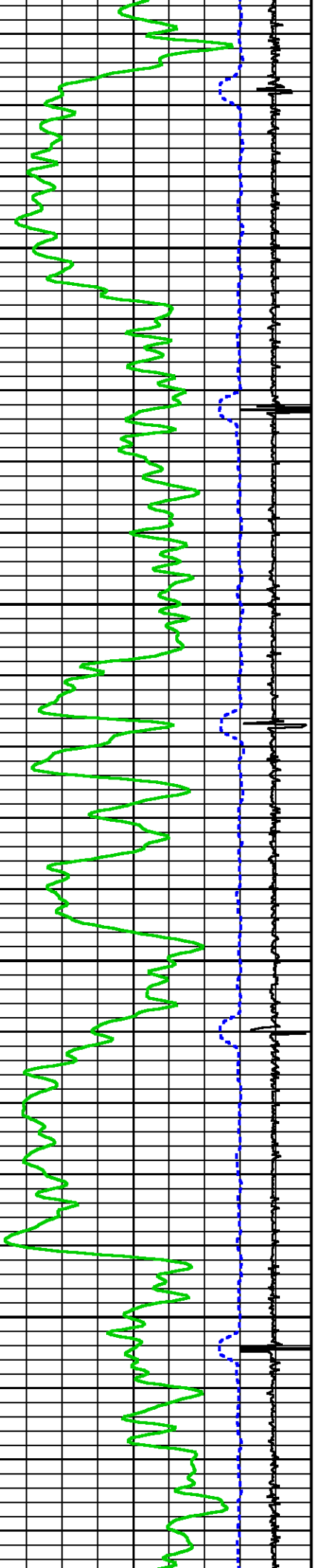
2200

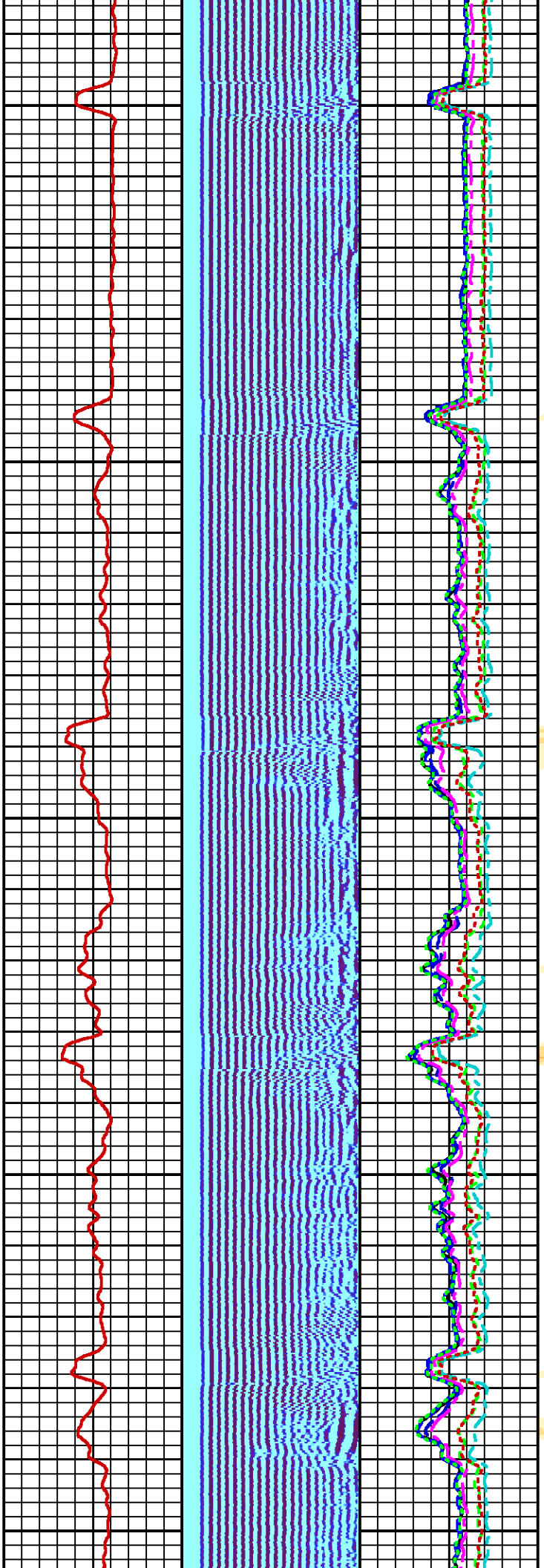




2300

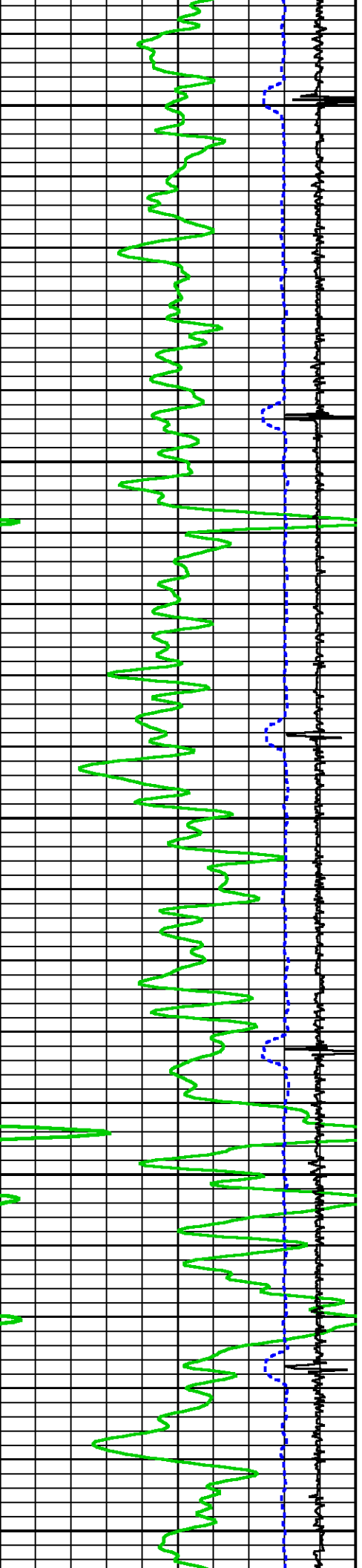
2400

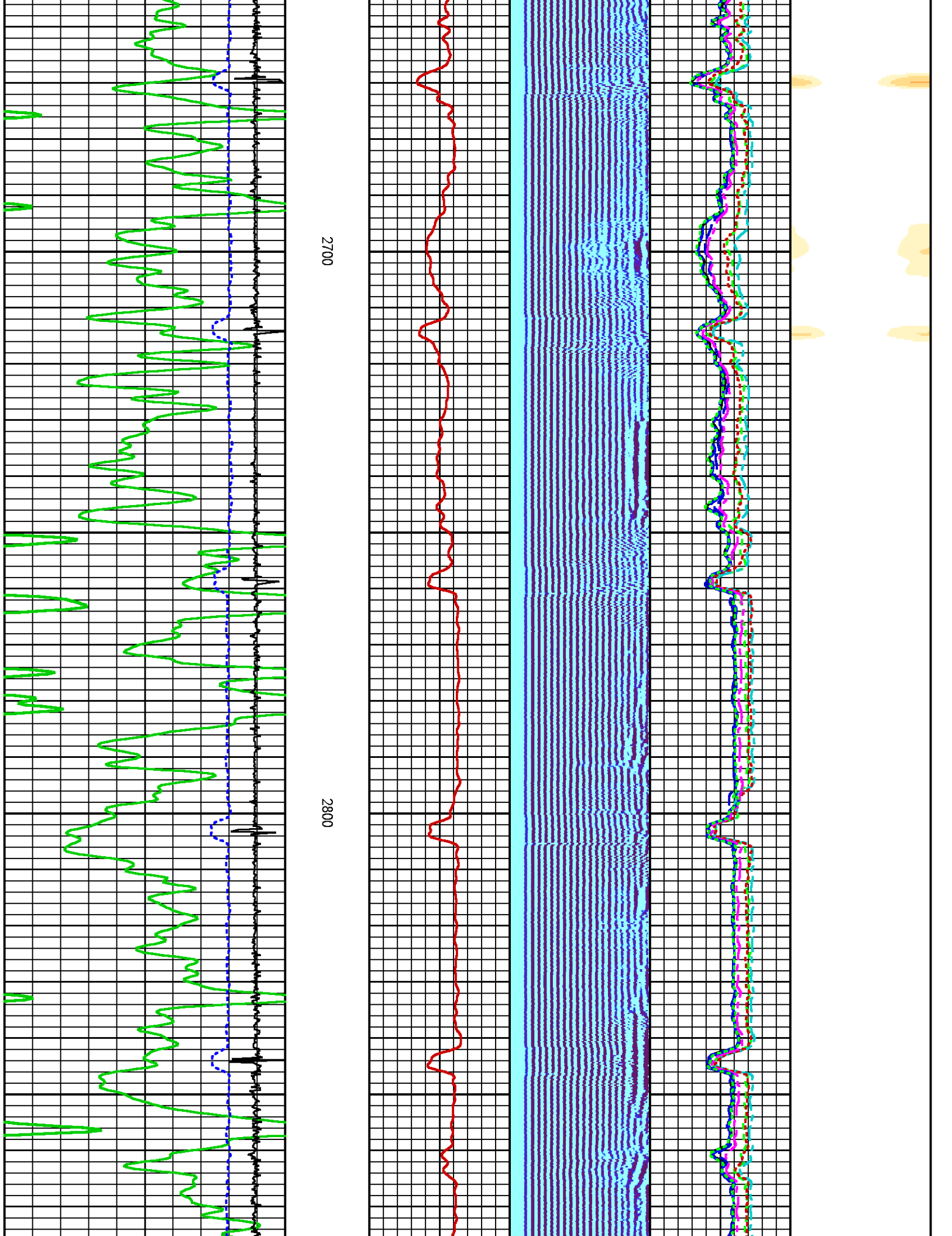


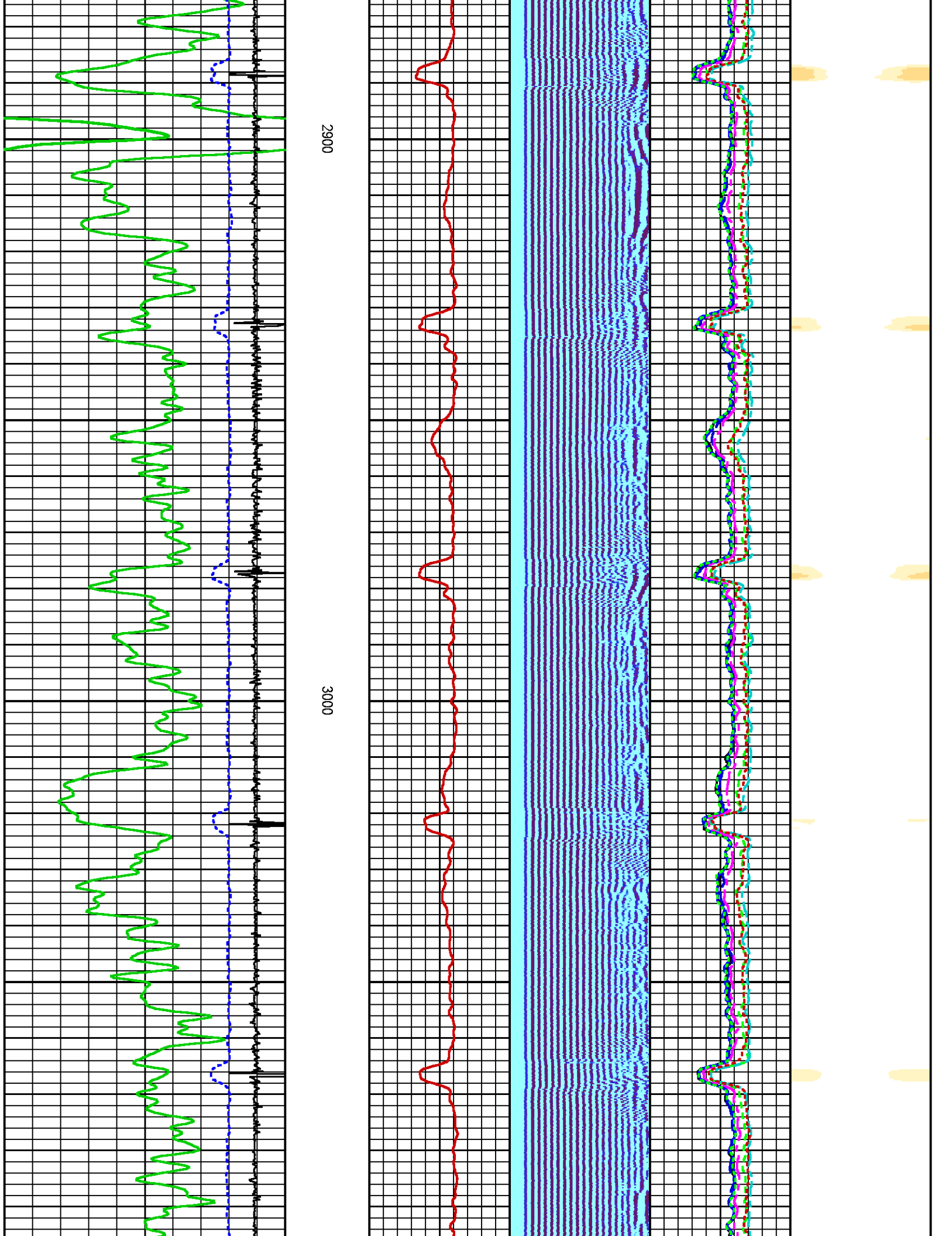


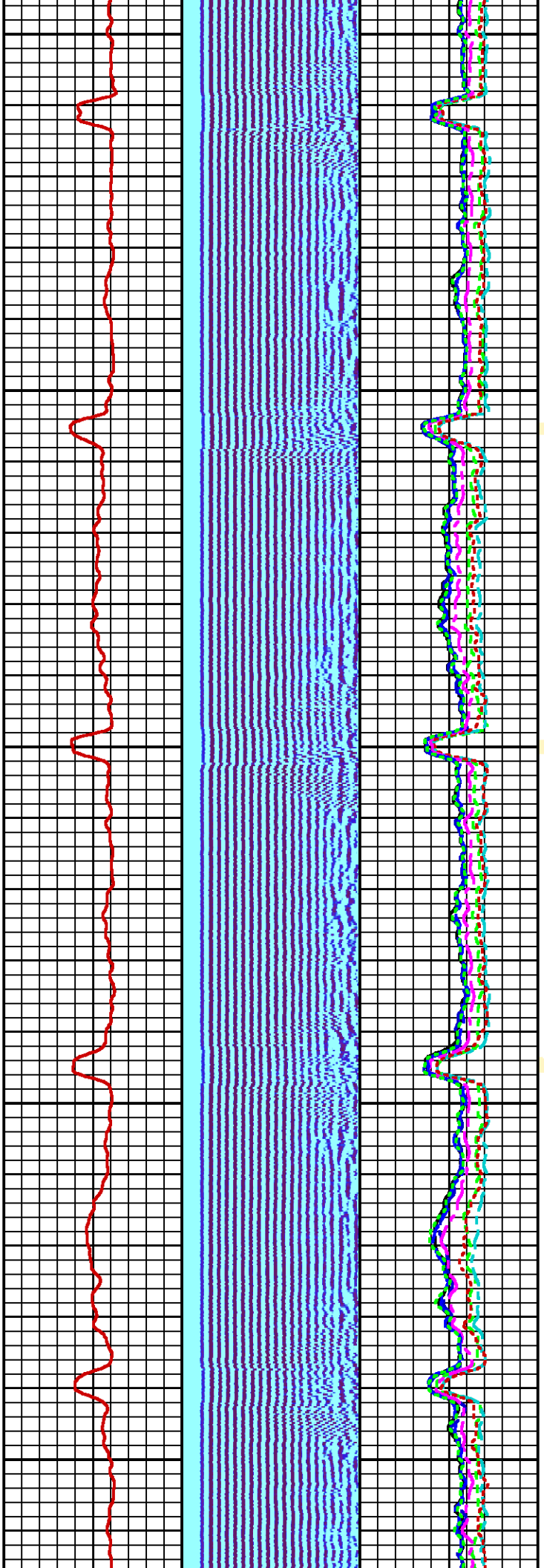
2500

2600





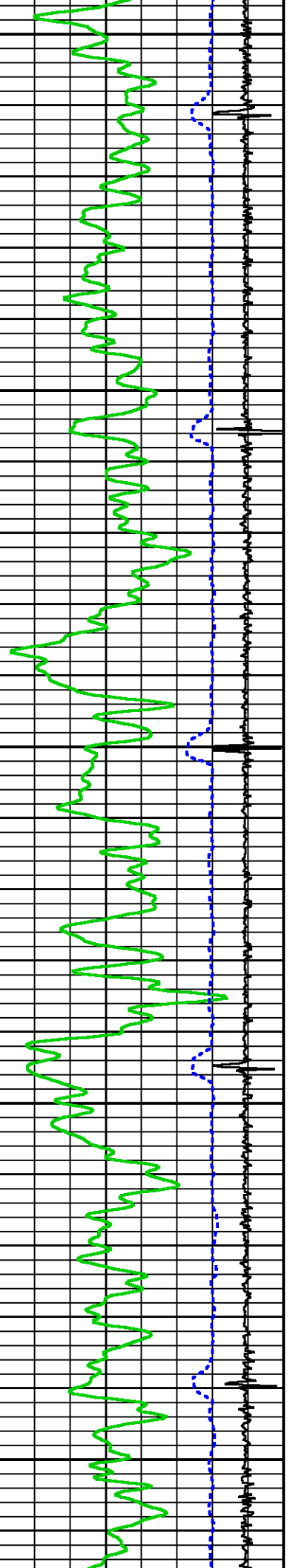


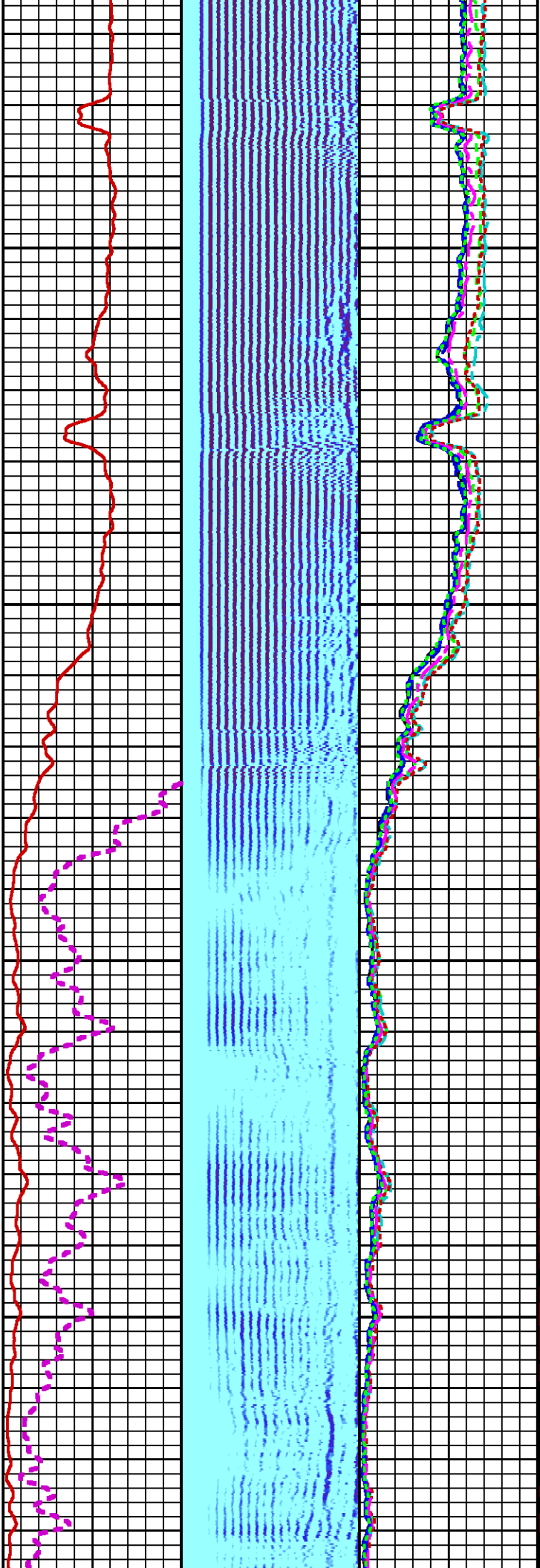
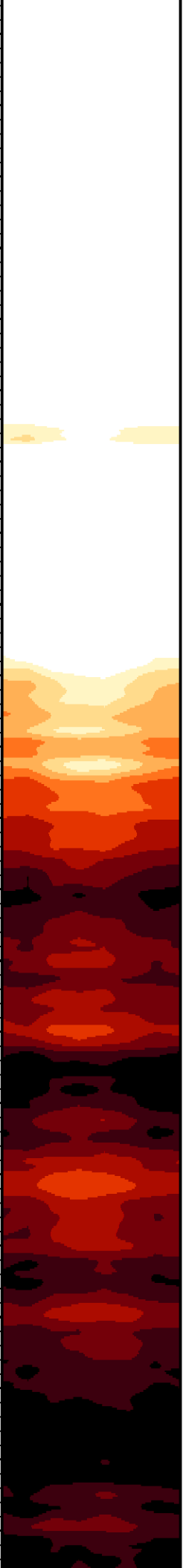


3100

3200

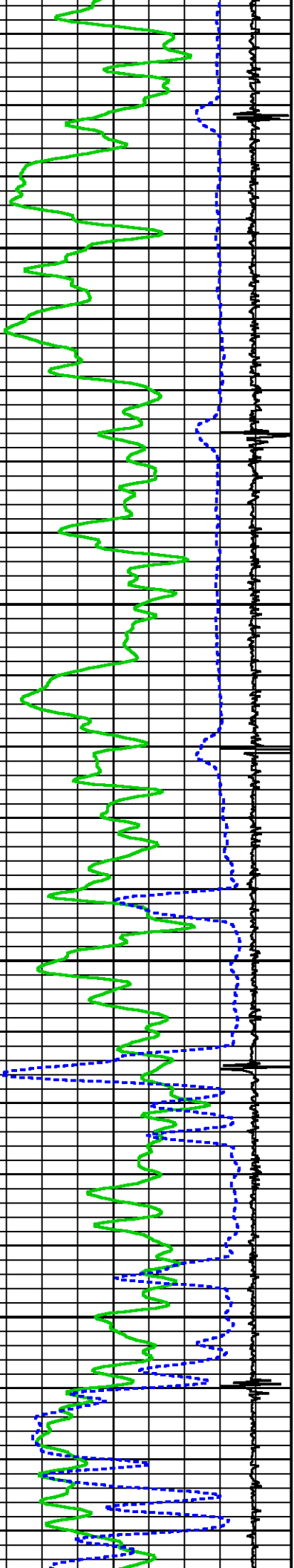
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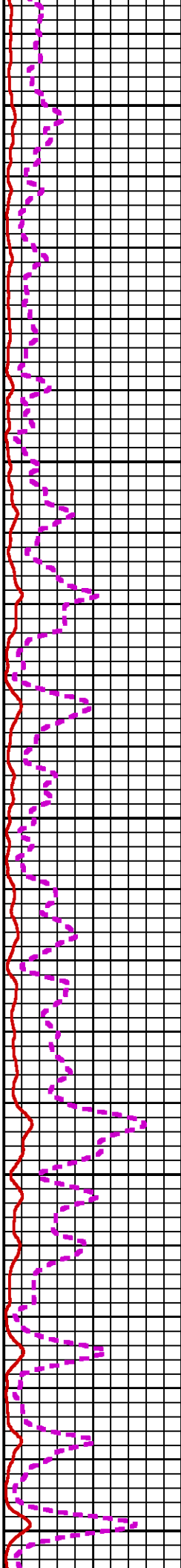
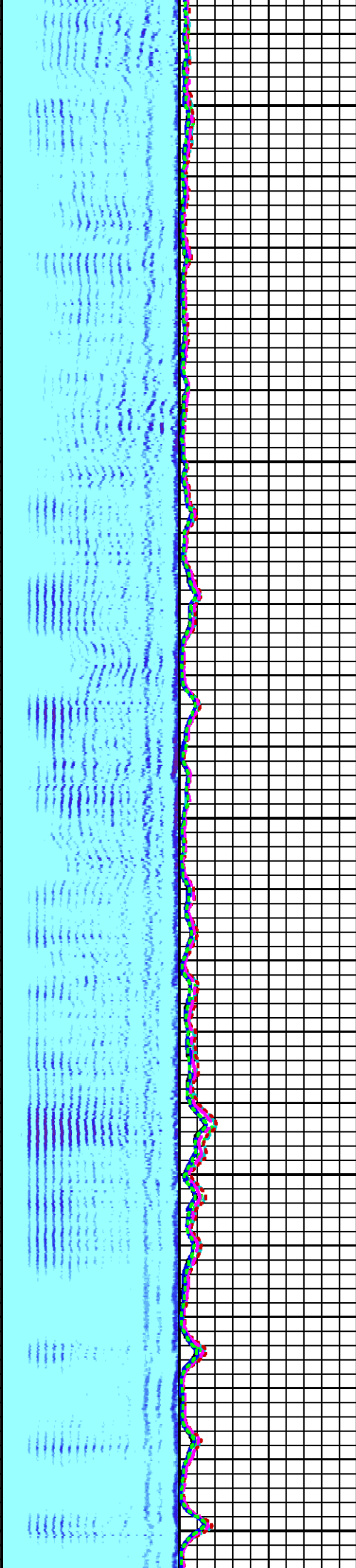




3400

3500

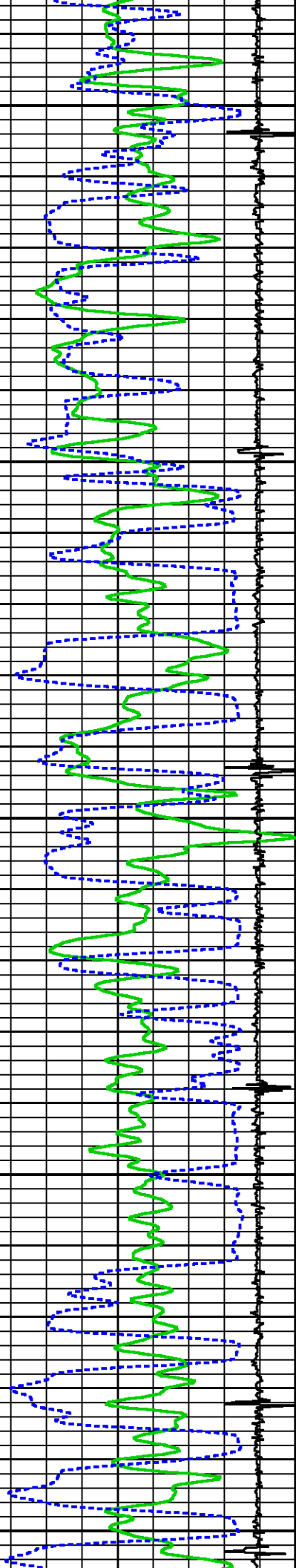


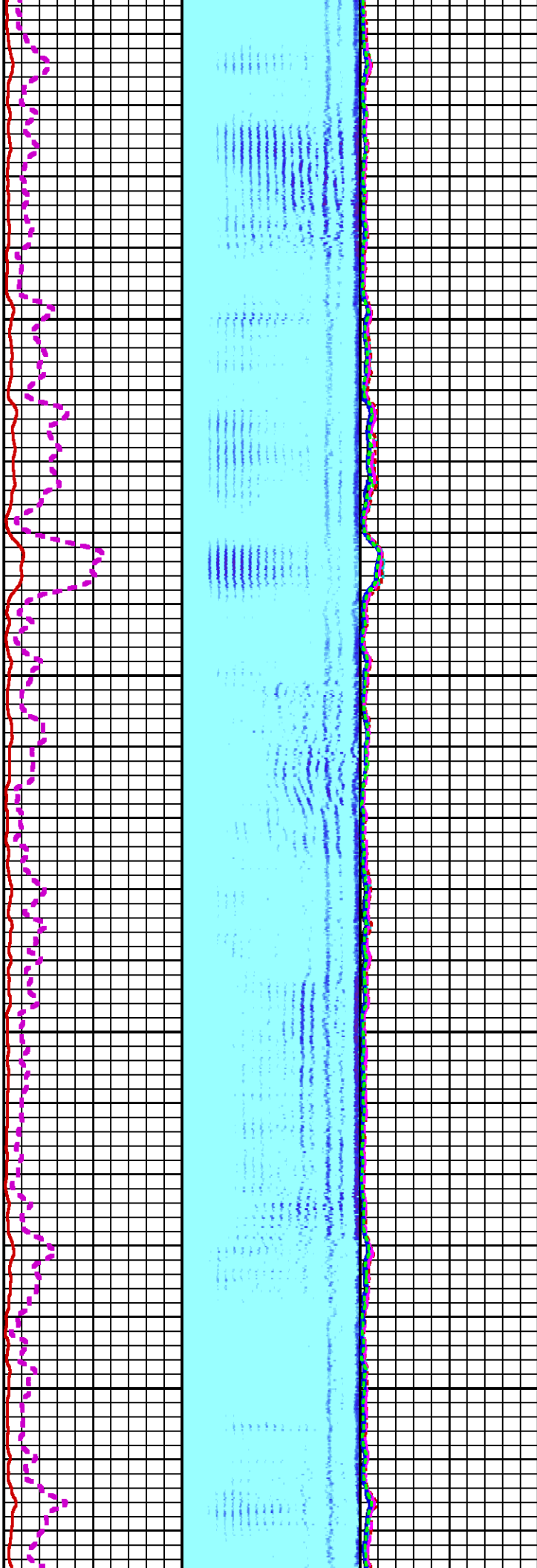


3600

3700

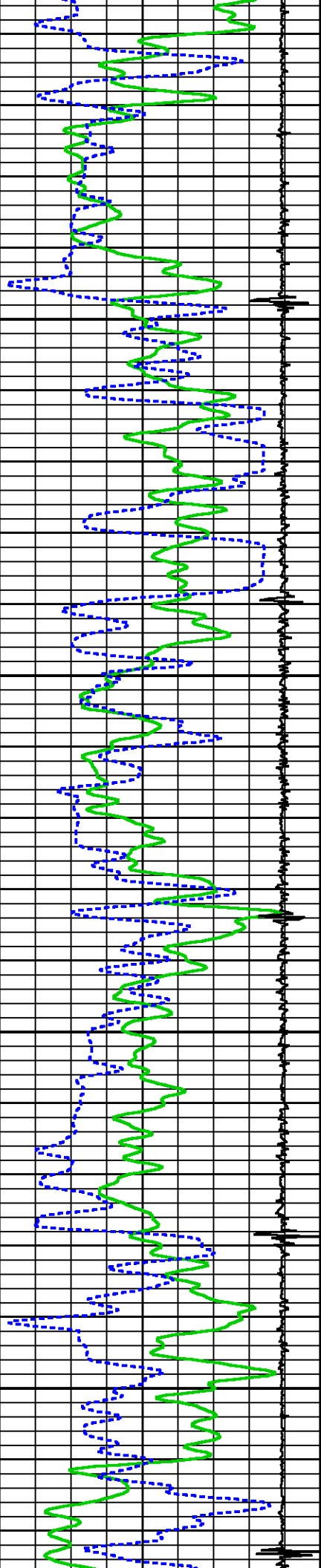
SHORT
JOINT

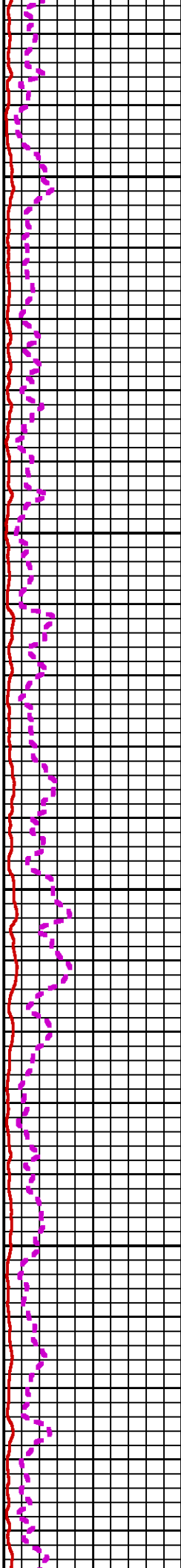
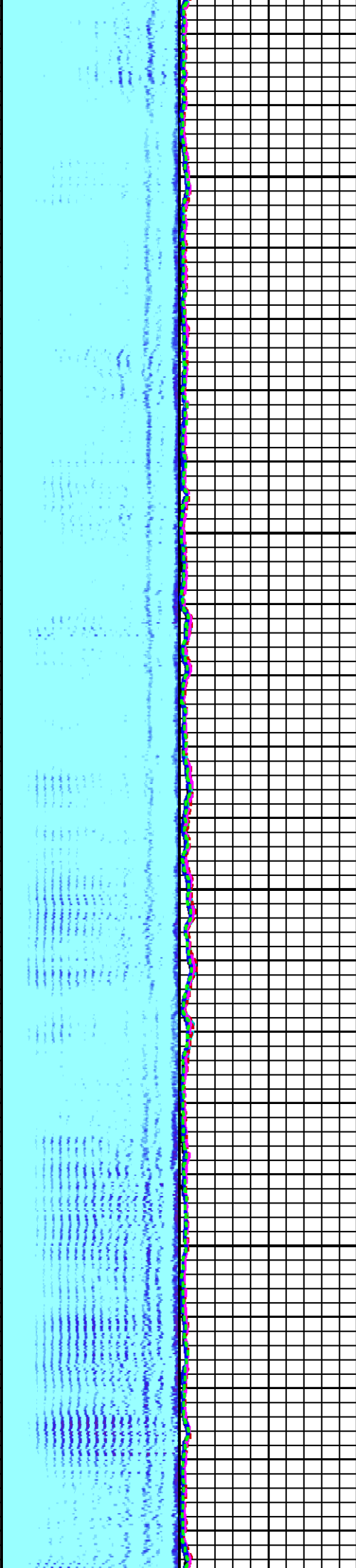




3800

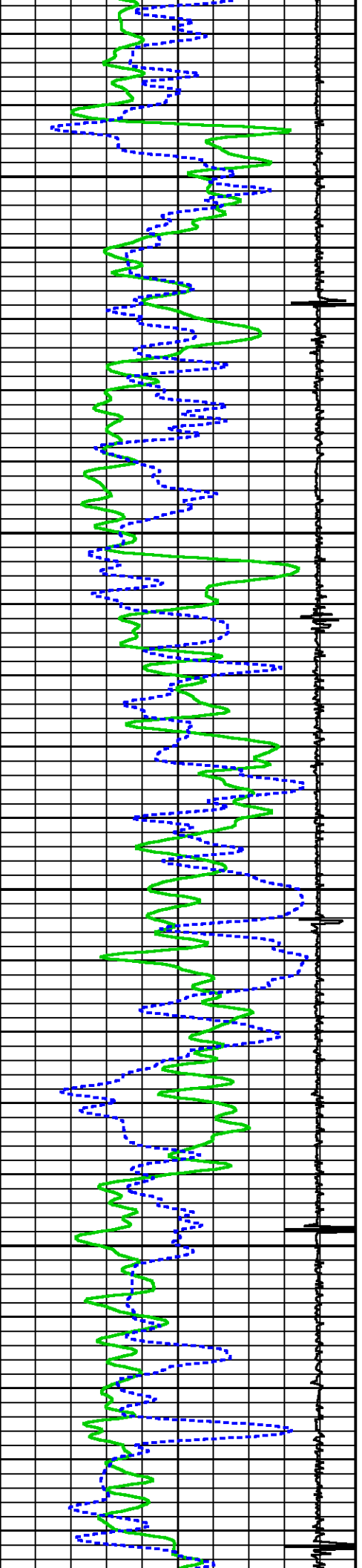
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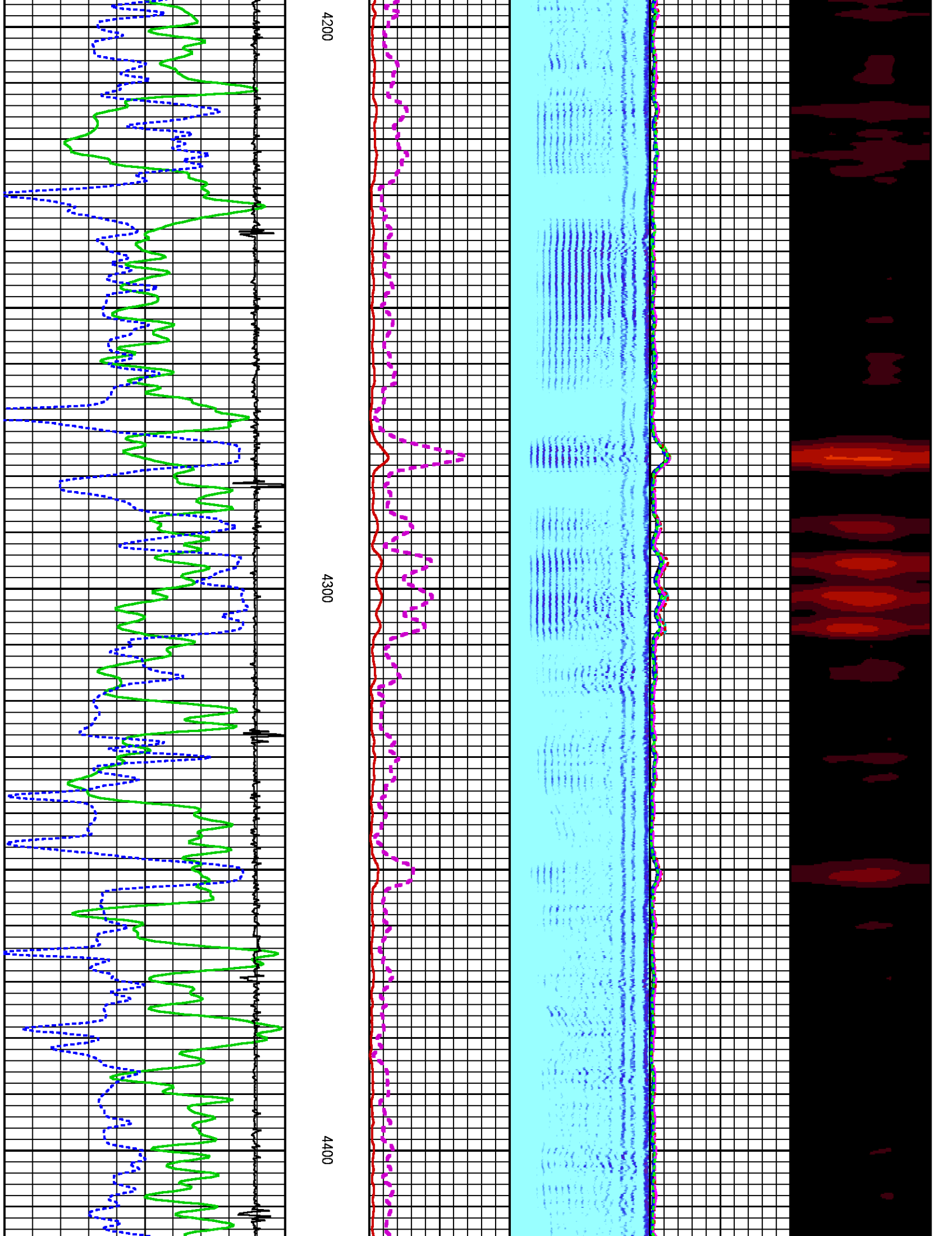


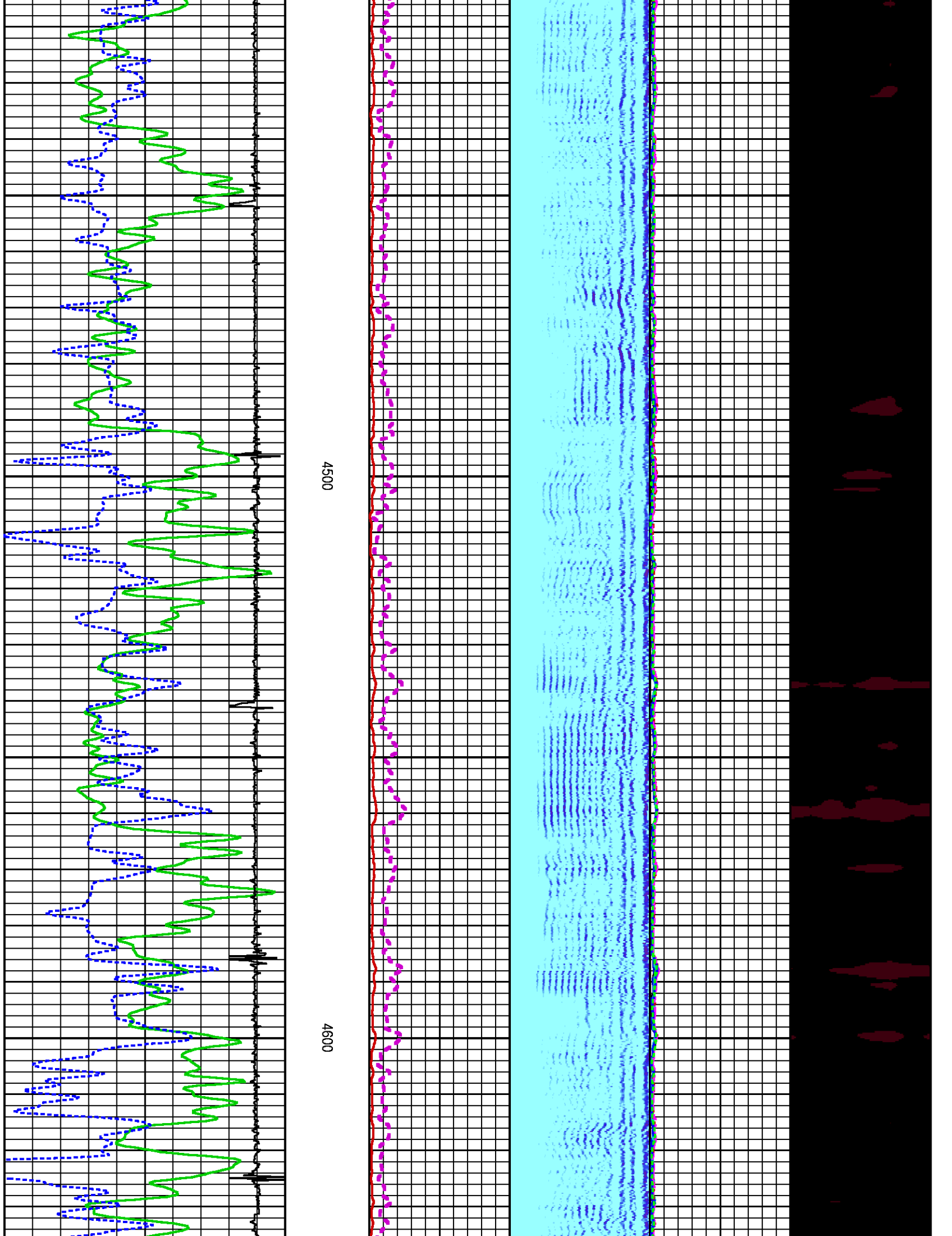


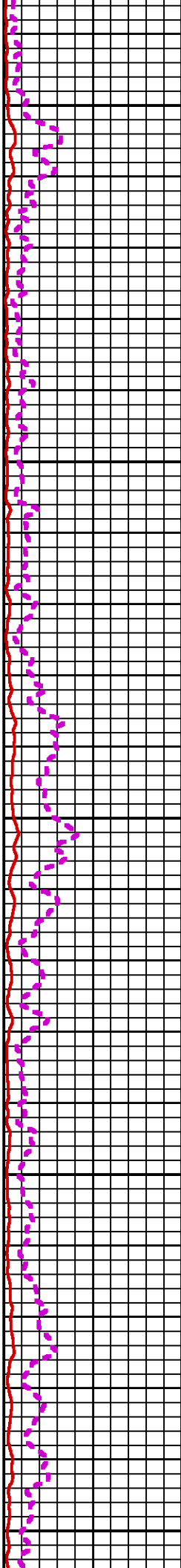
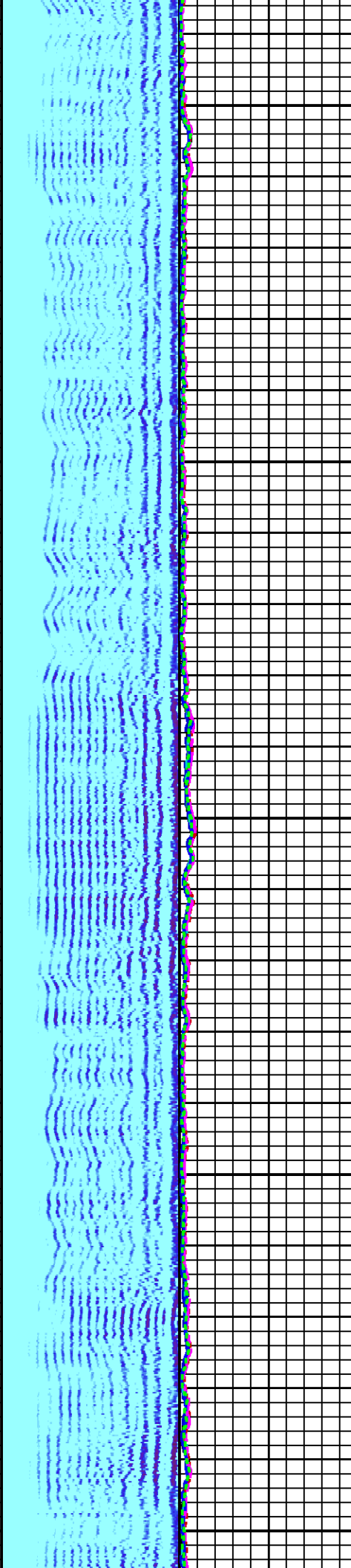
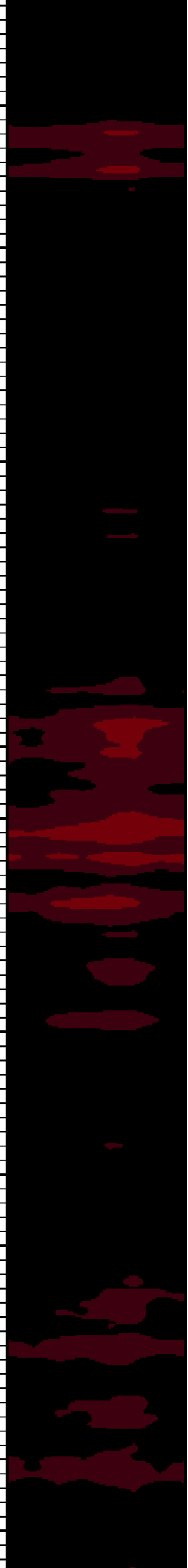
4000

4100



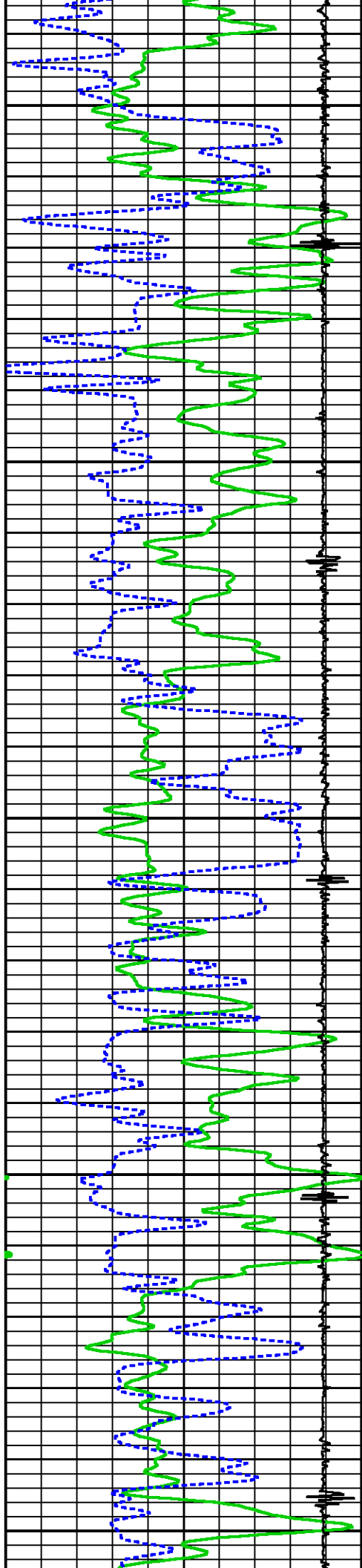


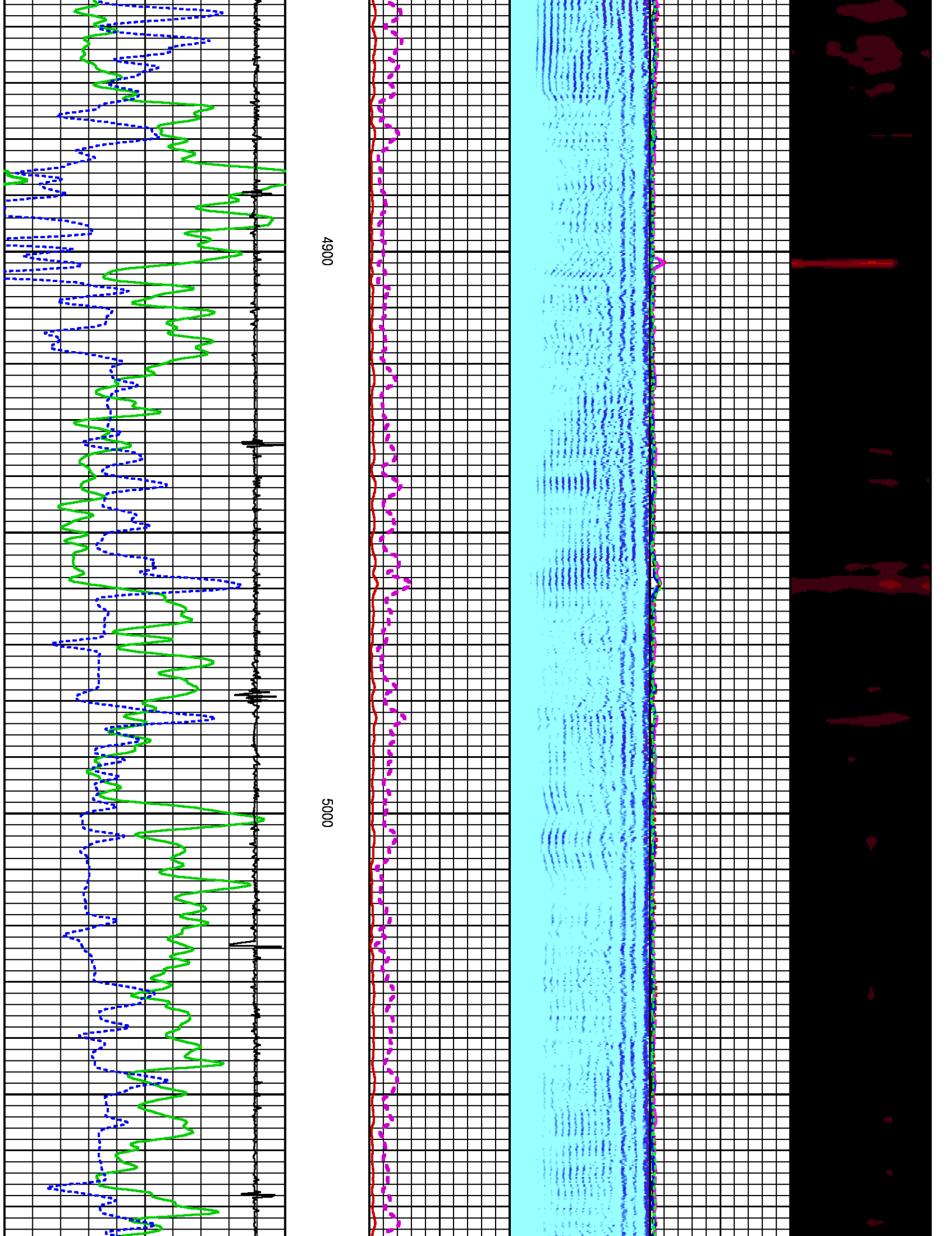


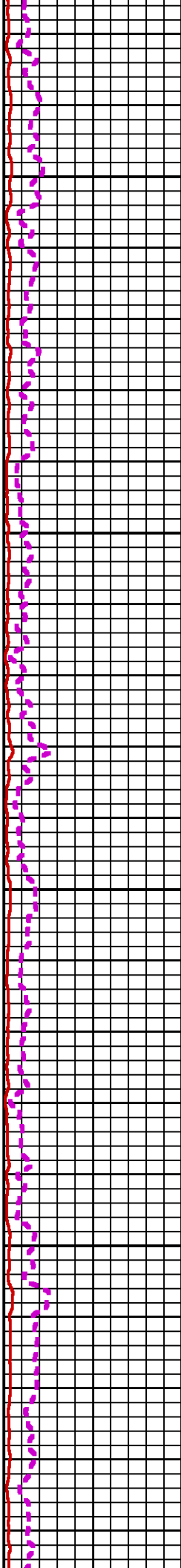
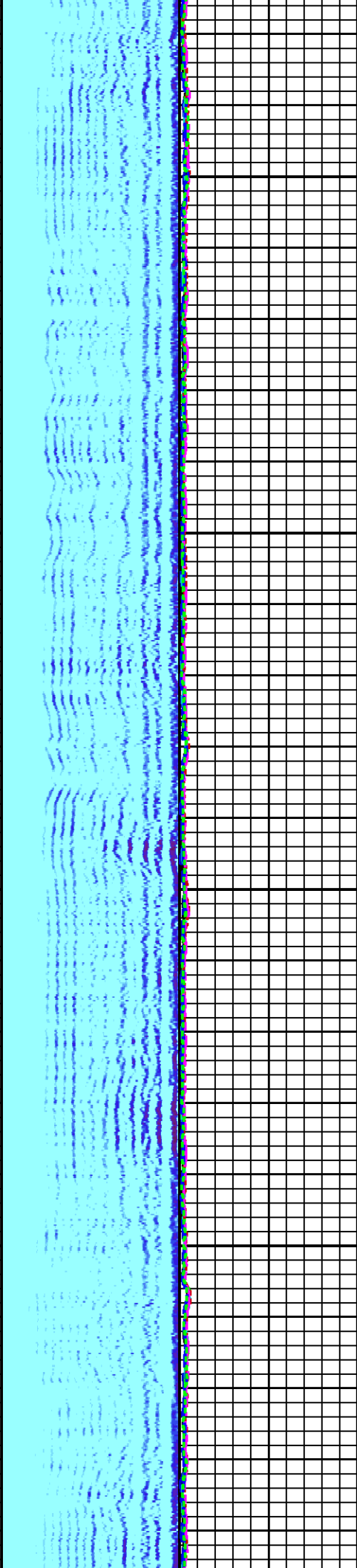


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4800

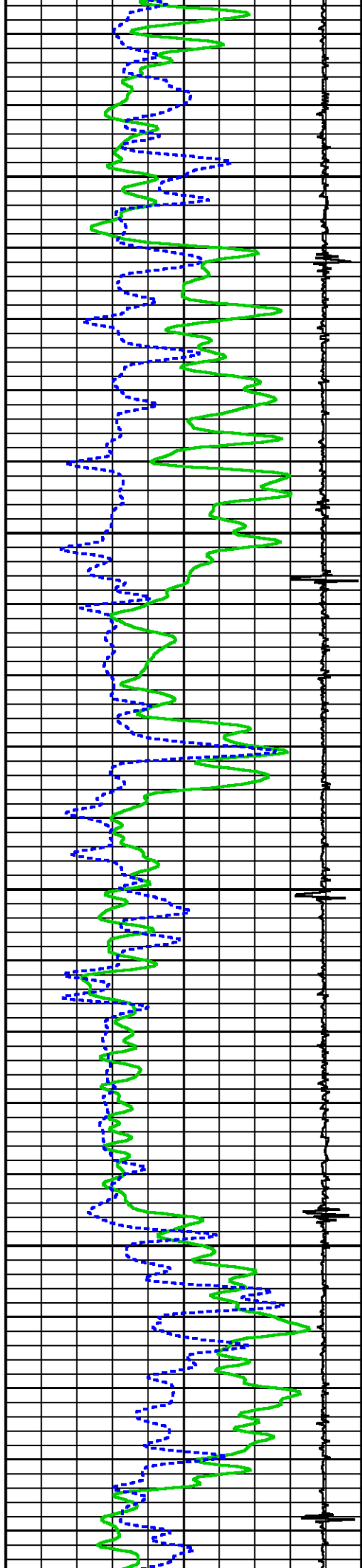


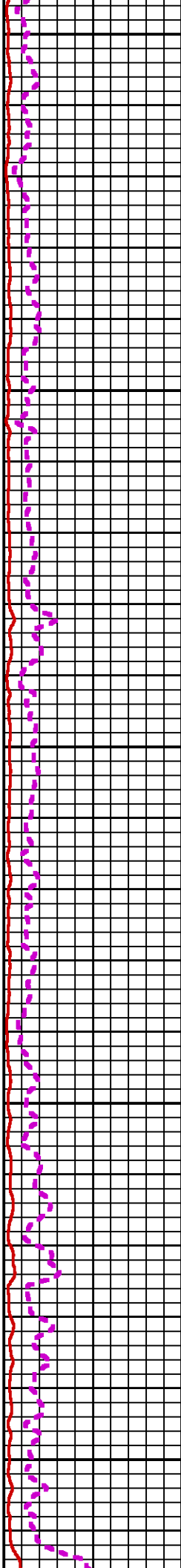
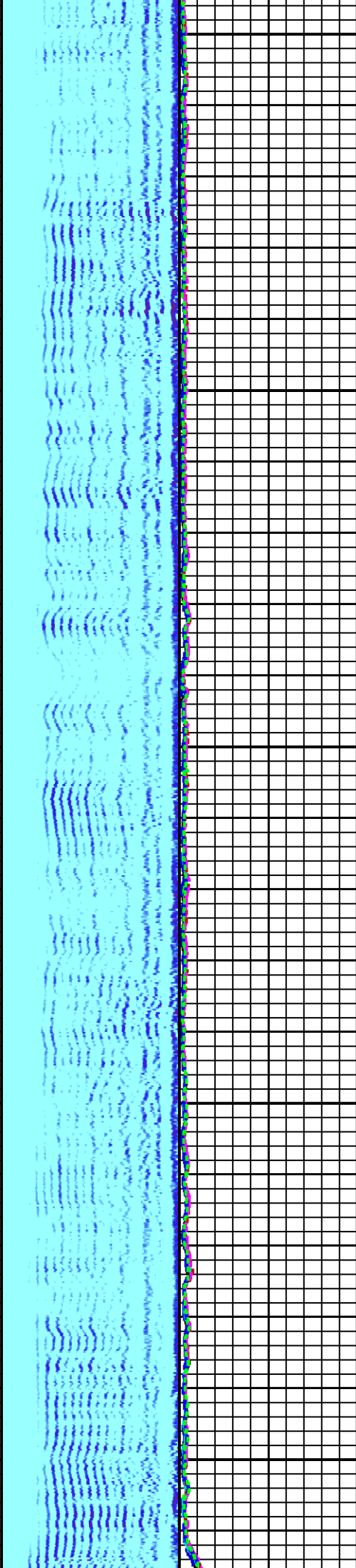




5100

5200

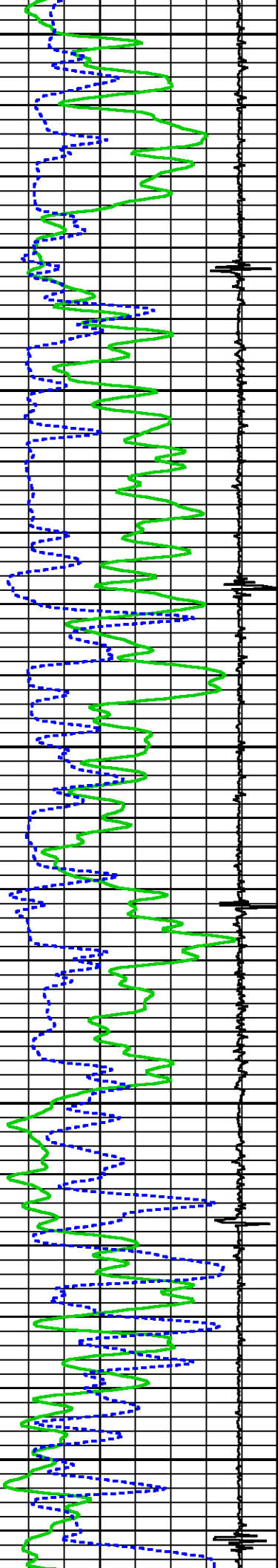


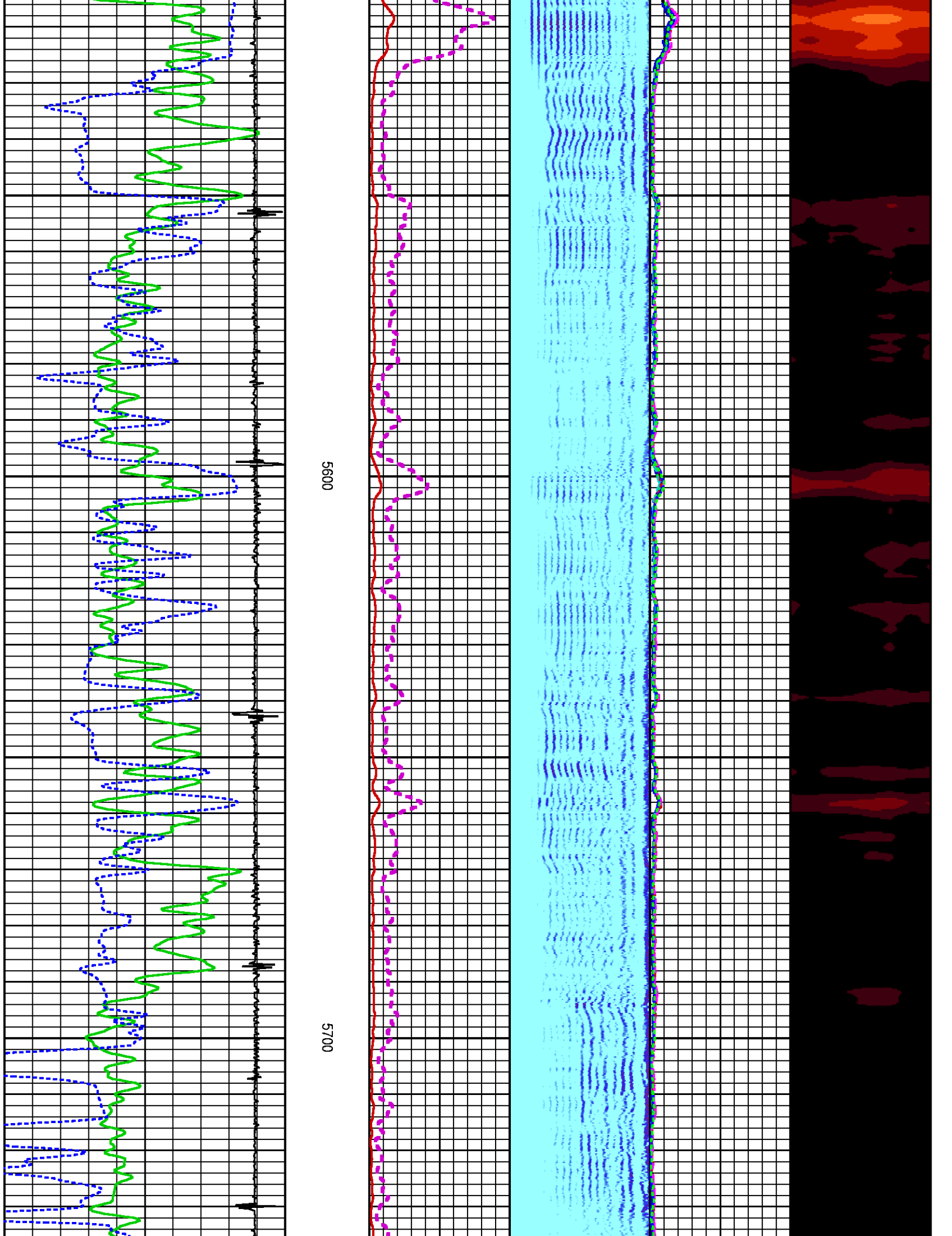


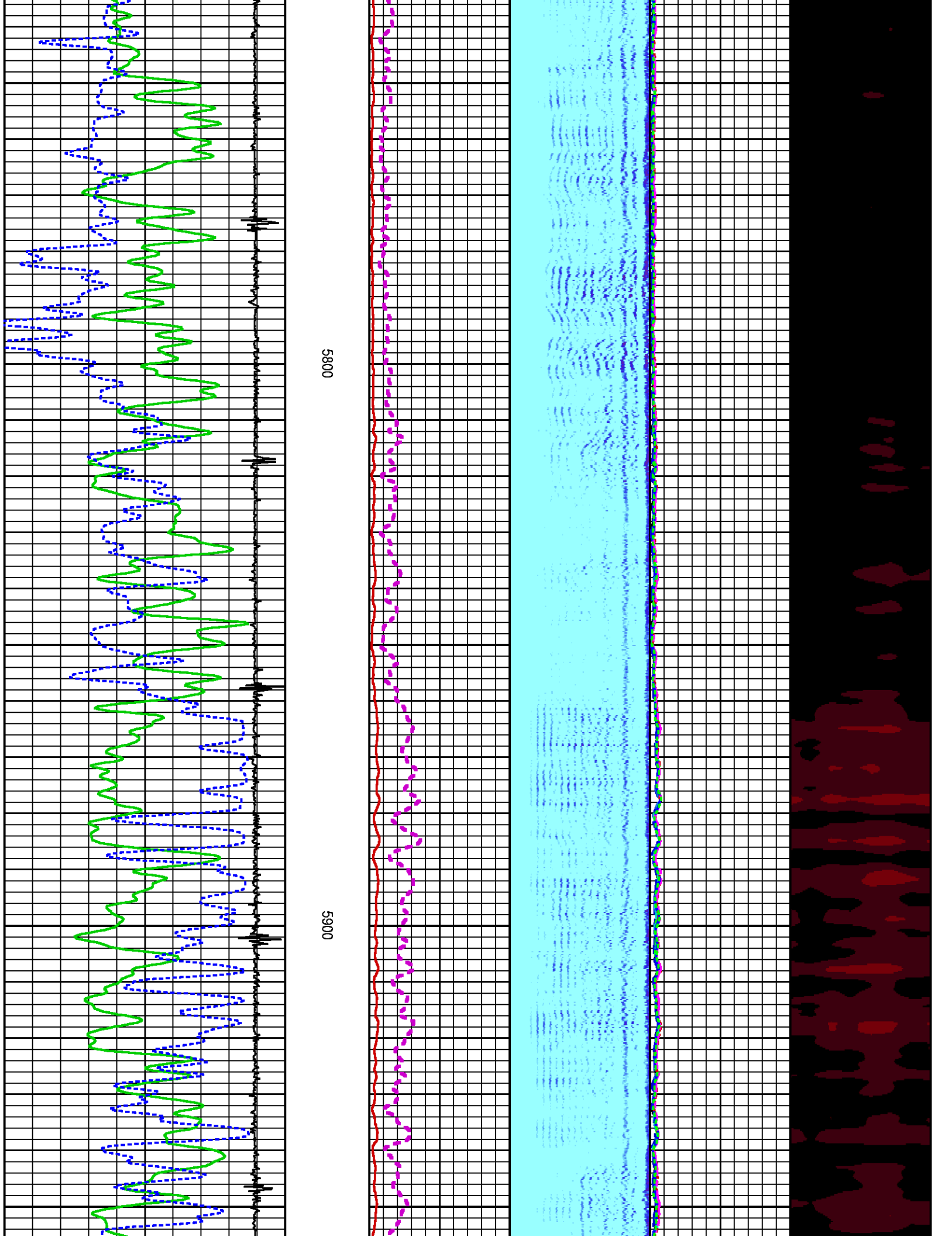
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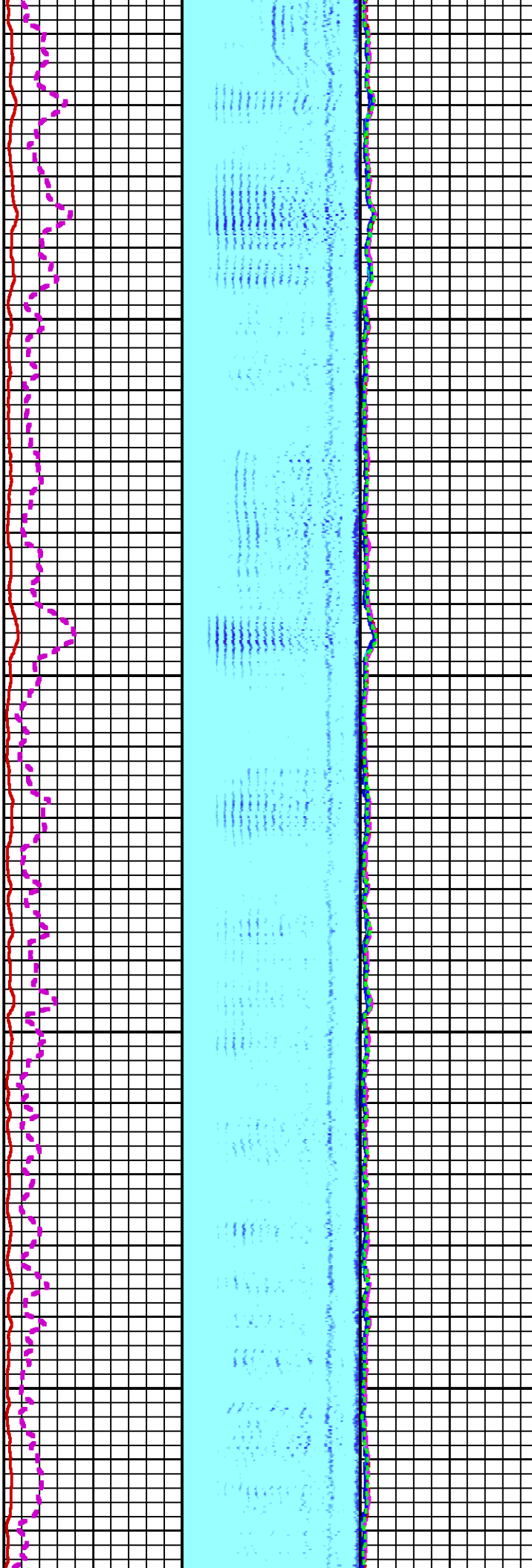
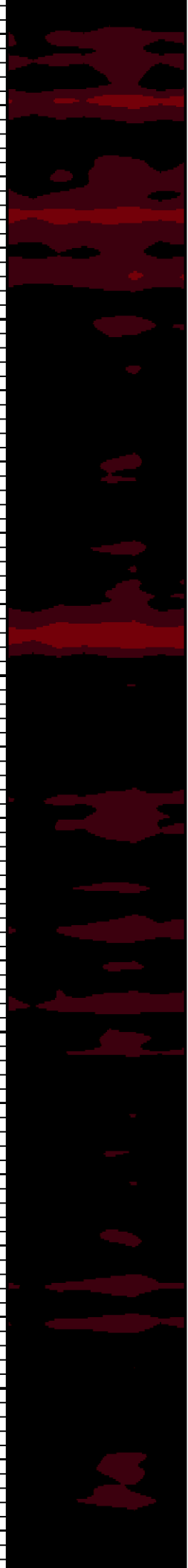
5400

5500



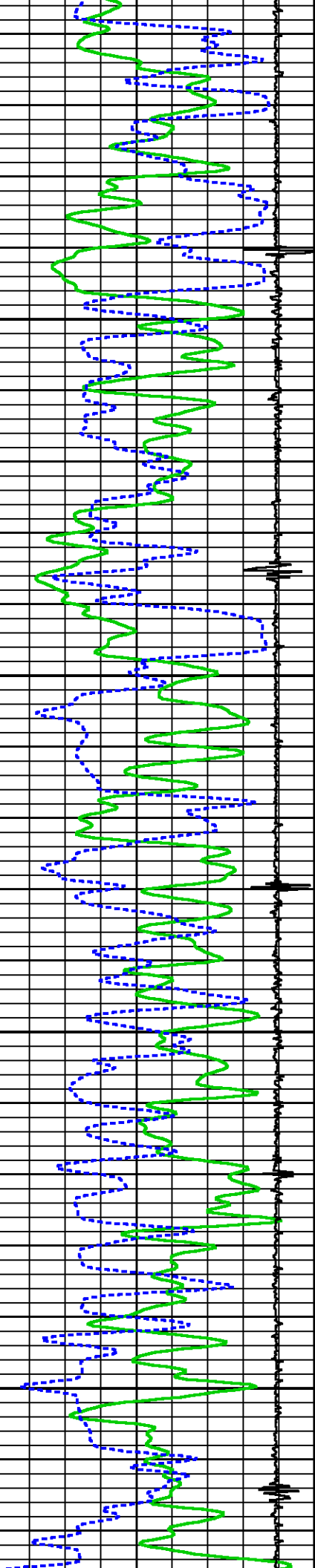


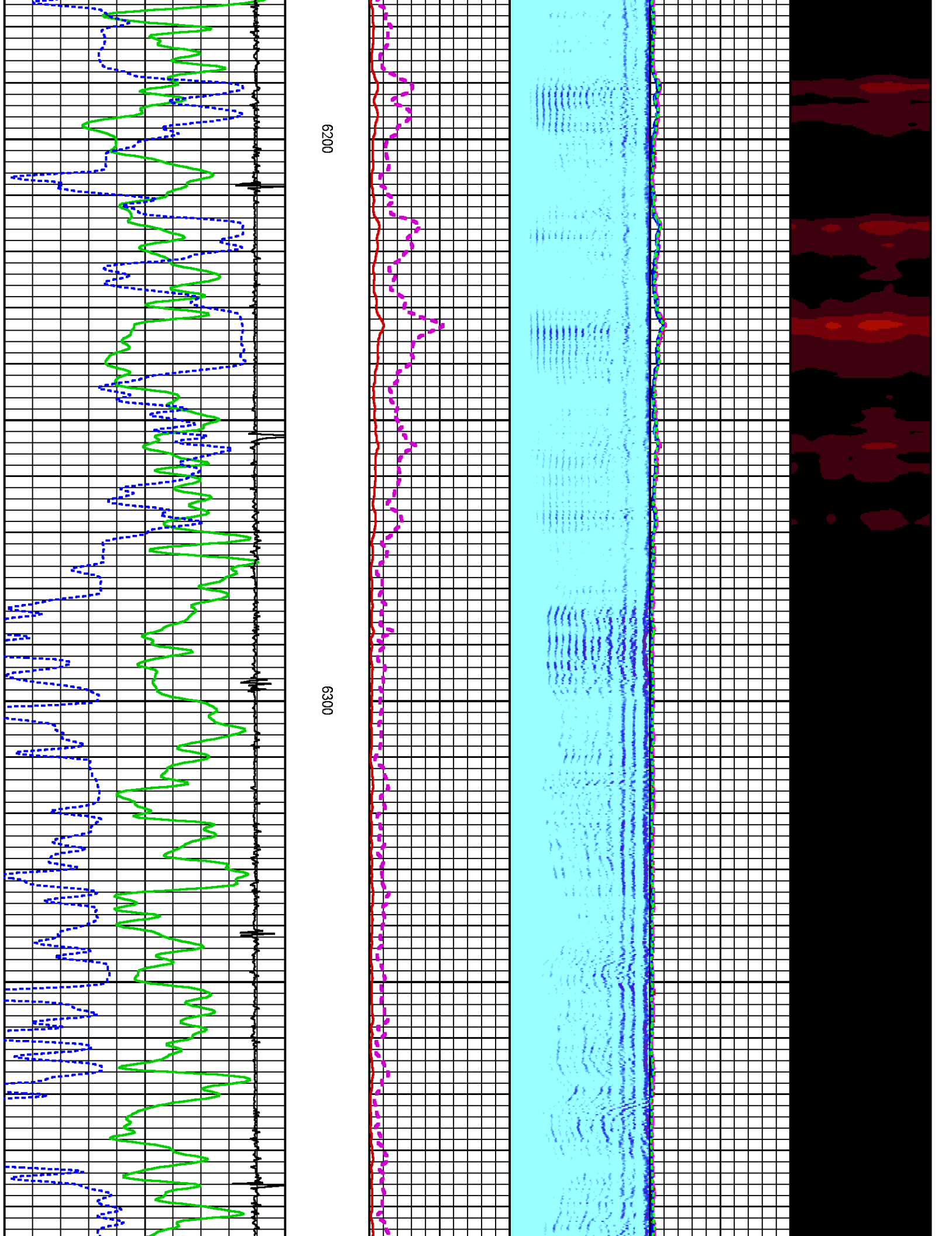


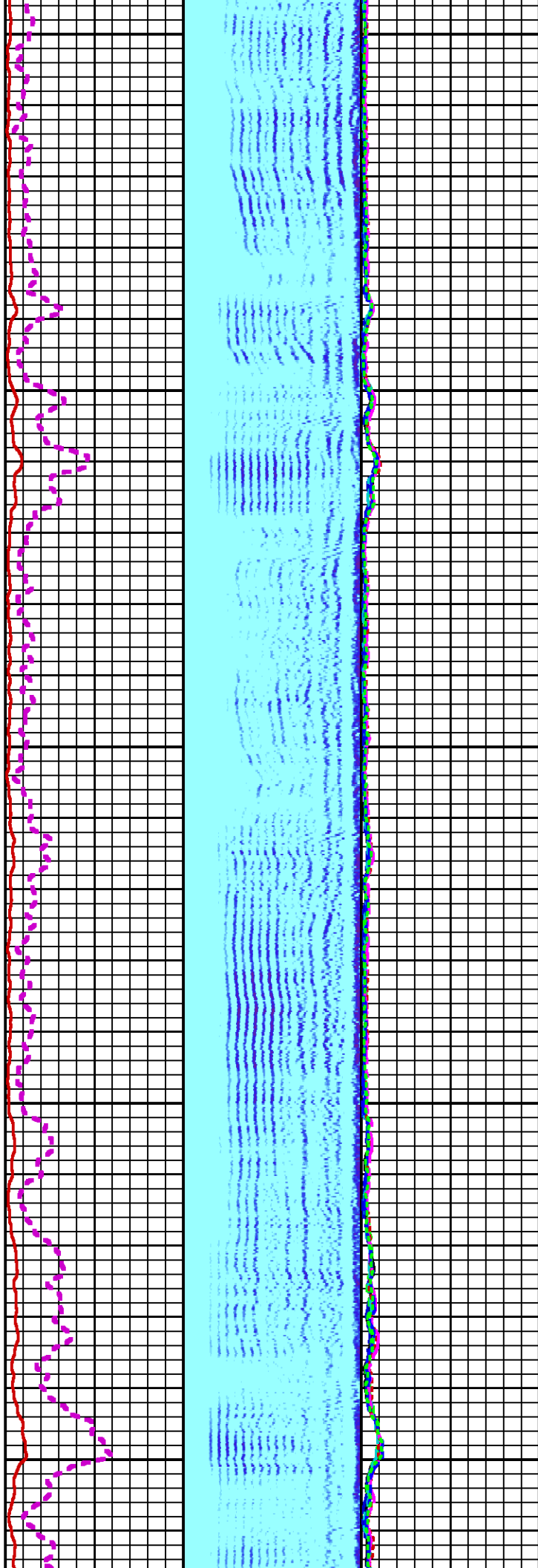


6000

6100



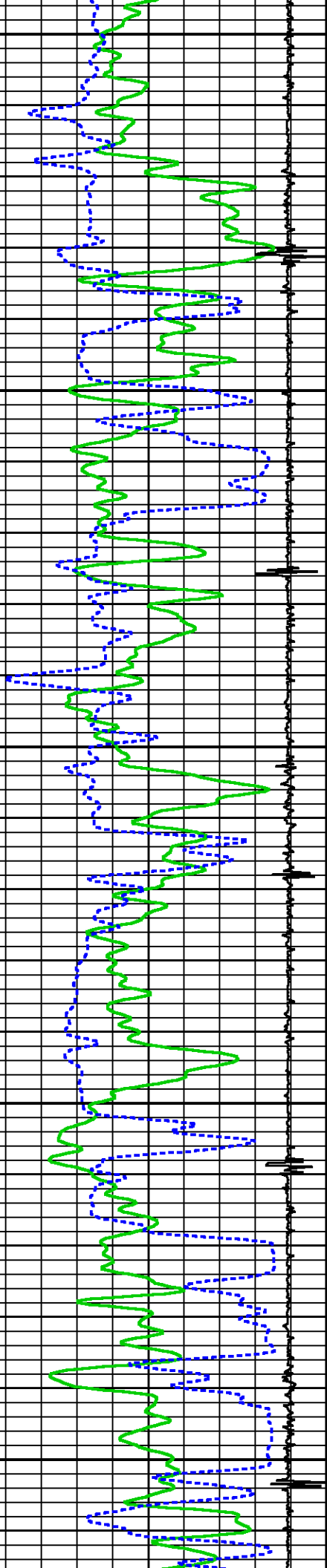


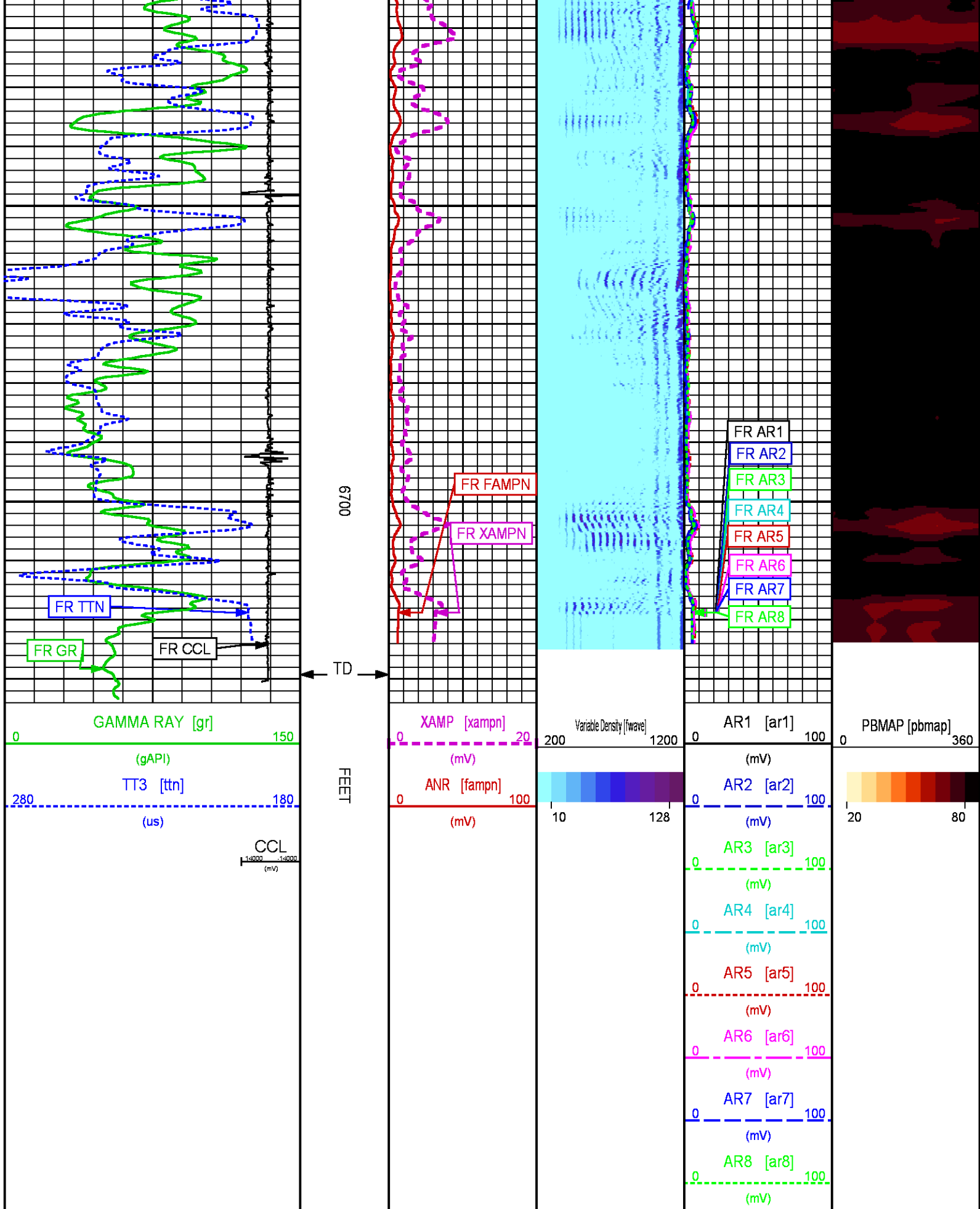


6400

6500

6600





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: Sun Jun 19 21:27:01 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH107933/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 6499.750 ft BOTTOM DEPTH: 6729.000 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	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	129	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

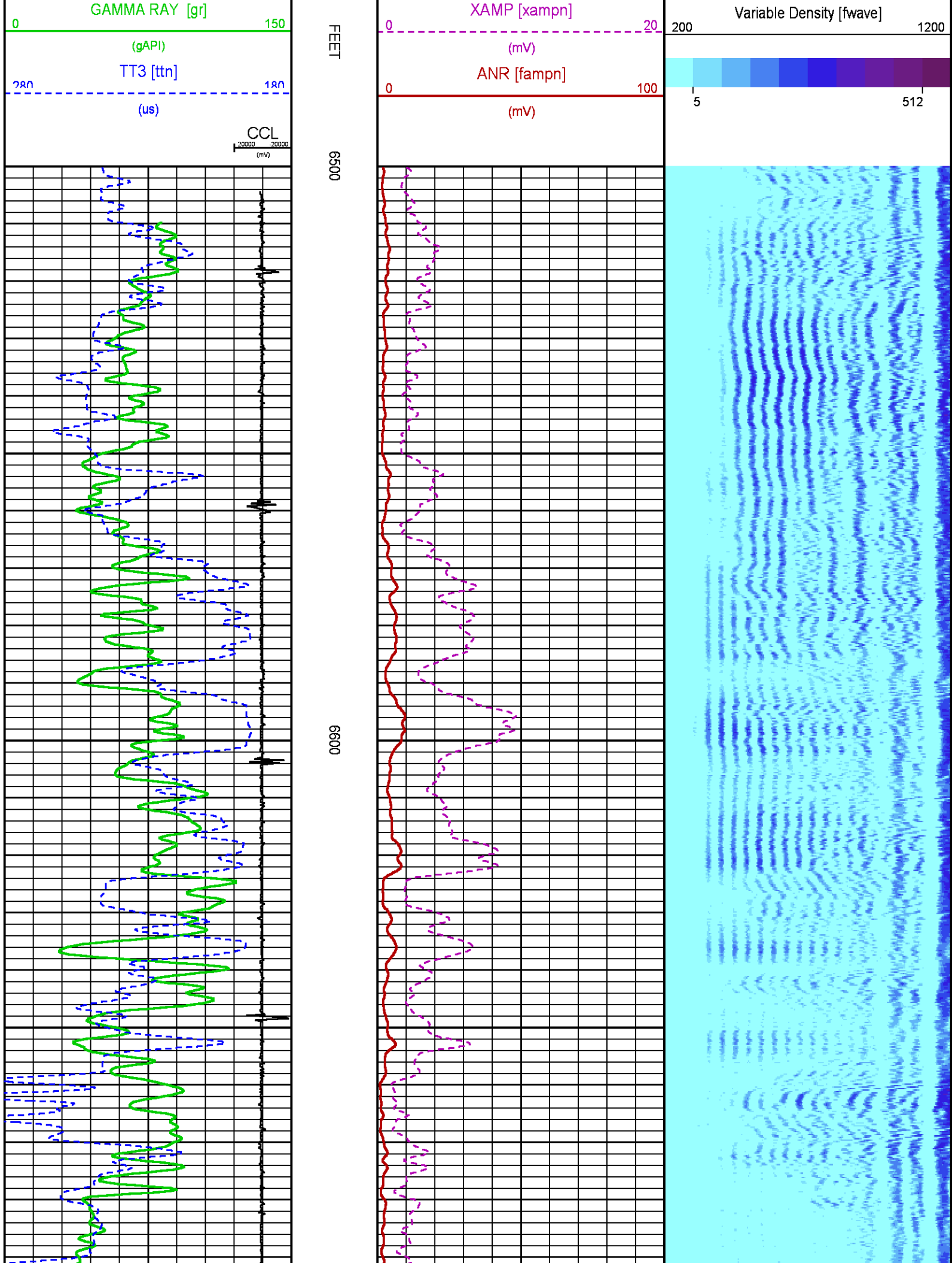
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jun 19 19:27:02 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 19:27:02 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 19:27:02 2016	FAR WAVE FORM
F1:GR	Jun 19 19:27:02 2016	GAMMA RAY
F1:TTN	Jun 19 19:27:02 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 19:27:02 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

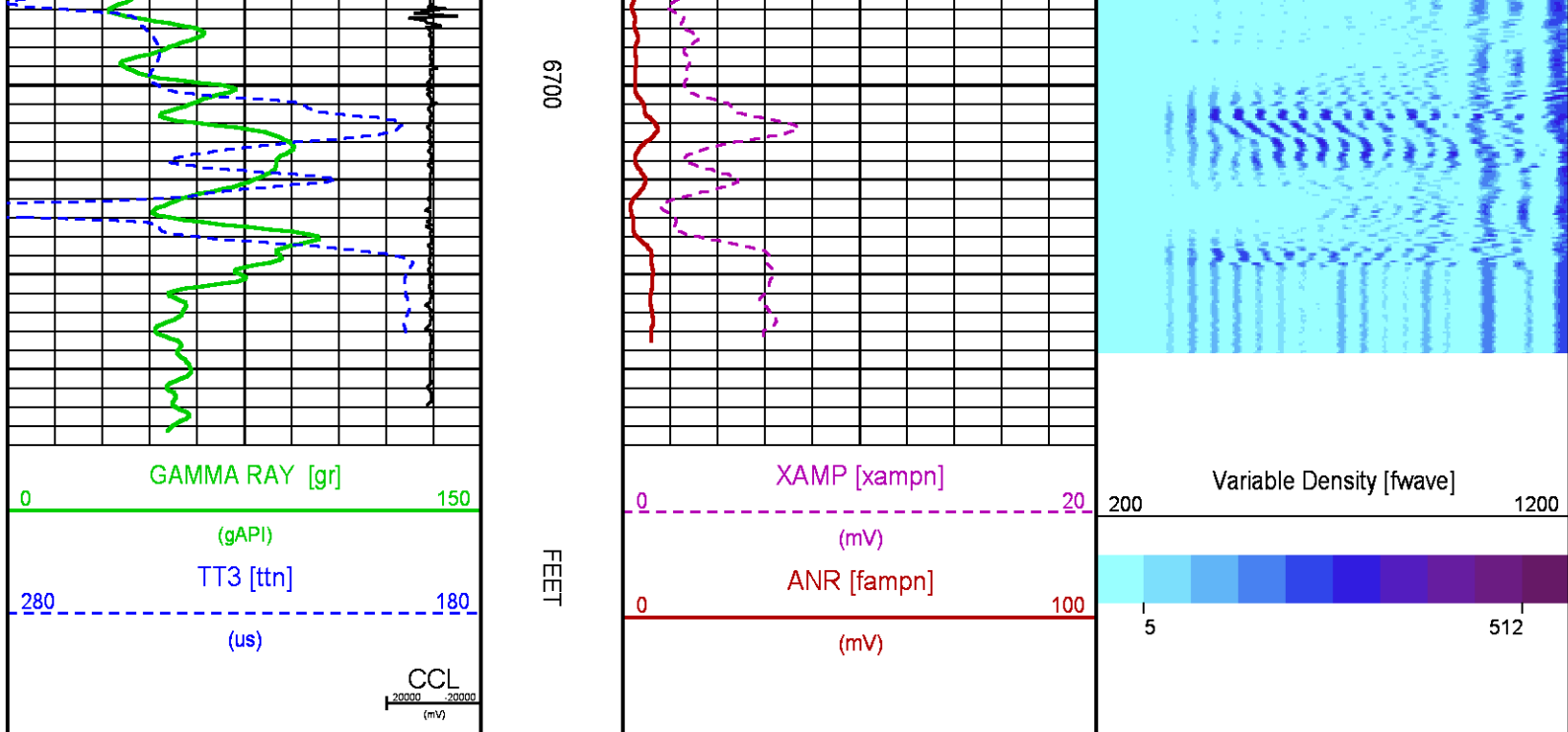
CURVE MEASURE POINT OFFSET

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/CH107933/WPX_ral_cbl-RPT.fvpdf [5"/100' Scale]
 Plot Interval : 6500 - 6738 Feet

Data File 1 : F1 : cas6685:C:\dat1a\CH107933
 Created On : 01 Jun 19 21:27:02 2016
 Company : WPX ENERGY
 Well : FEDERAL GM 442-8
 Field : GRAND VALLEY
 File Interval : 6499 - 6739.5 Feet
 OCT : n012g





CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\CH107933\012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Fri Jun 17 09:41:12 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)	-0.03	0.13	0.01	0.11	0.03	-0.01	-0.02	-0.06	-0.02	0.20	-0.09
AMP FLUID (mV)	110	110	110	110	110	109	110	109	110	146	109
TT (us)	215	215	215	215	215	215	214	213	215	329	214
M FACTOR	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	1.03	0.92

RAL BEFORE LOG VERIFICATION SUMMARY

DAYS SINCE CAL: 2

CABLE #: HL6685 SMALL1

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.92	0.00	0.99

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	54.71	230.84	176.1	0.852	46.59	196.59	150

Condition	Percentage of correct responses
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: 225 lbs
 MAX DIAMETER: 0.4.25"

	COMPANY <u>WPX ENERGY</u>		FILE NO: <u>CH107933</u>
	WELL <u>FEDERAL GM 442-8</u>		API NO: <u>05045225330000</u>
	FIELD <u>GRAND VALLEY</u>	COUNTY <u>GARFIELD</u>	STATE <u>COLORADO</u>
	LOCATION: SHL: 663'FNL 553'FWL S9T7SR96W BHL: 2050'FNL 323'FEL S8T7SR96W		ELEVATIONS: KB 6111 FT DF GL 6087 FT
SEC <u>8</u> TWP <u>7S</u> RGE <u>96W</u>		DATE <u>19-Jun-2016</u>	