



FILE NO: CH106693	COMPANY WELL FIELD COUNTY	WPX ENERGY FEDERAL RU 413-6 RULISON GARFIELD	STATE CO
API NO: 05045226020000			

Ver. 4.06 S6 TTS R93W RU 13-6 PAD H&P 318	LOCATION: SHL: 1936' FSL & 521' FWL BHL: 703' FSL & 1268' FWL SEC 6 TWP 7S RGE 93W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB GL	ELEVATION 24 FT 6985 FT ABOVE P.D.	ELEVATIONS: KB 7009 FT DF GL 6895 FT
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DATE	16-APR-2016
RUN	1
SERVICE ORDER	US106693
DEPTH DRILLER	9257 FT
DEPTH LOGGER	9191 FT
BOTTOM LOGGED INTERVAL	9189 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	12:00
TIME FINISHED	15:00
OPERATOR RIG TIME	3 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	53 FT
LOGGED CEMENT TOP	SEE LOG
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 FPM
MAX. RECORDED TEMP.	247 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	20-Mar-2016
EQUIP. NO.	HL-6670
LOCATION	GRAND JCT.
RECORDED BY	P. EDWARDS
WITNESSED BY	B. CADY

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	24 FT	1124 FT
9.625 IN	1124 FT	9257 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	32.3 LB/F		24 FT	1124 FT
4.5 IN	11.6 LB/F	I-80	24 FT	9257 FT

### REMARKS

RUN 1 TRIP 1: ALL DATA ON THIS LOG IS SHIFTED AND DEPTH MATCHED USING THE GAMMA-RAY CURVE TO THE BAKER HUGHES OPEN HOLE LOG DATED 20-Mar-2016 AT THE CLIENT'S REQUEST.

THE DEPTH MATCHING PROCESS CREATES POTENTIAL FOR COLLAR LENGTHS TO VARY FROM THOSE RECORDED ON OTHER CASED HOLE WIRELINE UNITS WITHOUT A GAMMA RAY REFERENCE

THE AMOUNT OF LINEAR SHIFT IS 13 FEET

LOGGED WITH ZERO PSI AT WELLHEAD

BHT = 247 degF

SJ = 5522' - 5545'

THANK YOU FOR CHOOSING BAKER HUGHES WIRLINE SERVICES

## EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10154957	CENTRALIZED
1	1	GR / CCL	1355XA	11871506	CENTRALIZED

## PRIMARY PRESENTATION 0 PSI

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

Plotted: Sat Apr 16 15:58:27 2016

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH106693/n012g05.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 26.250 ft BOTTOM DEPTH: 2198.000 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

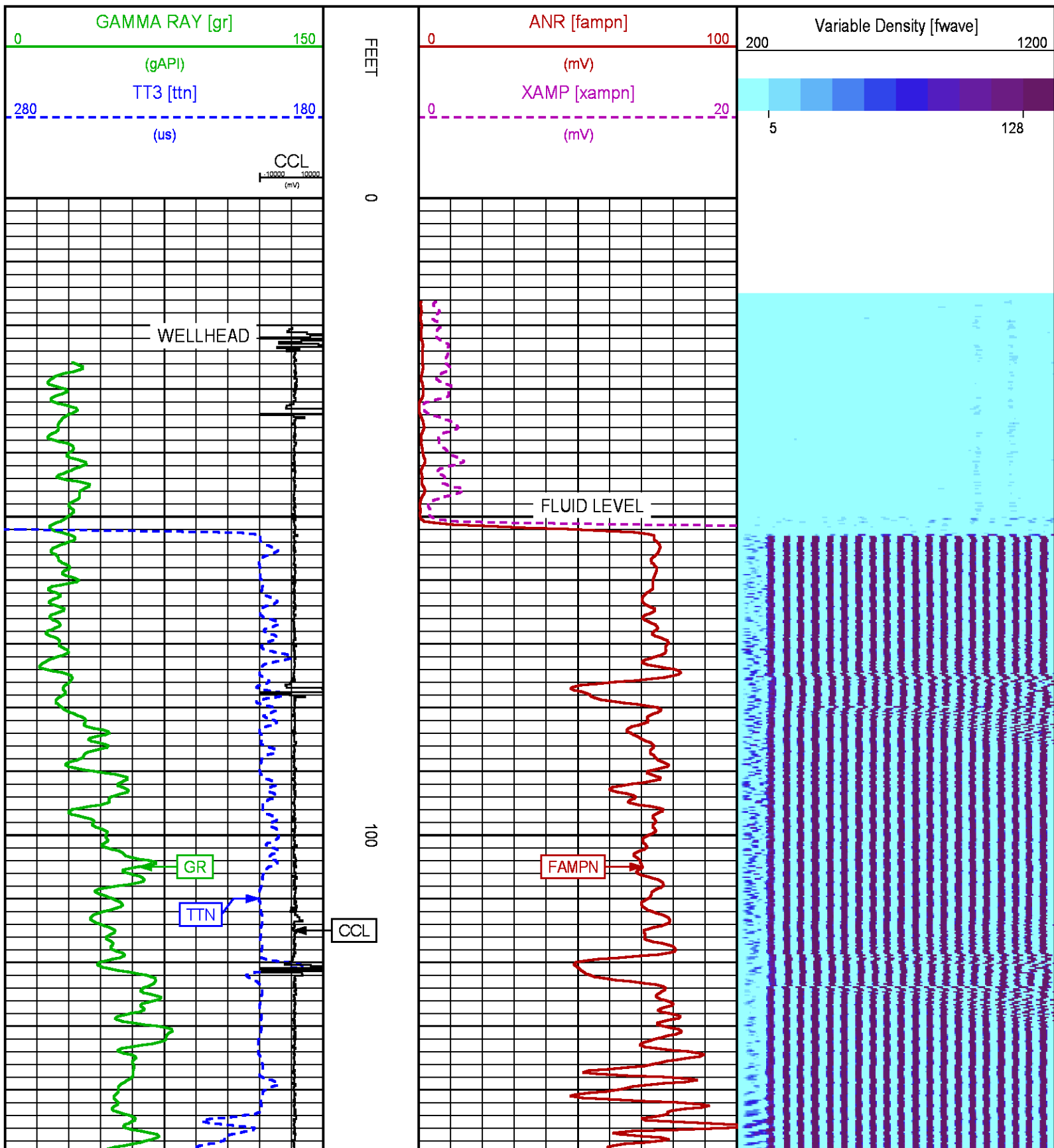
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	171	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-76	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

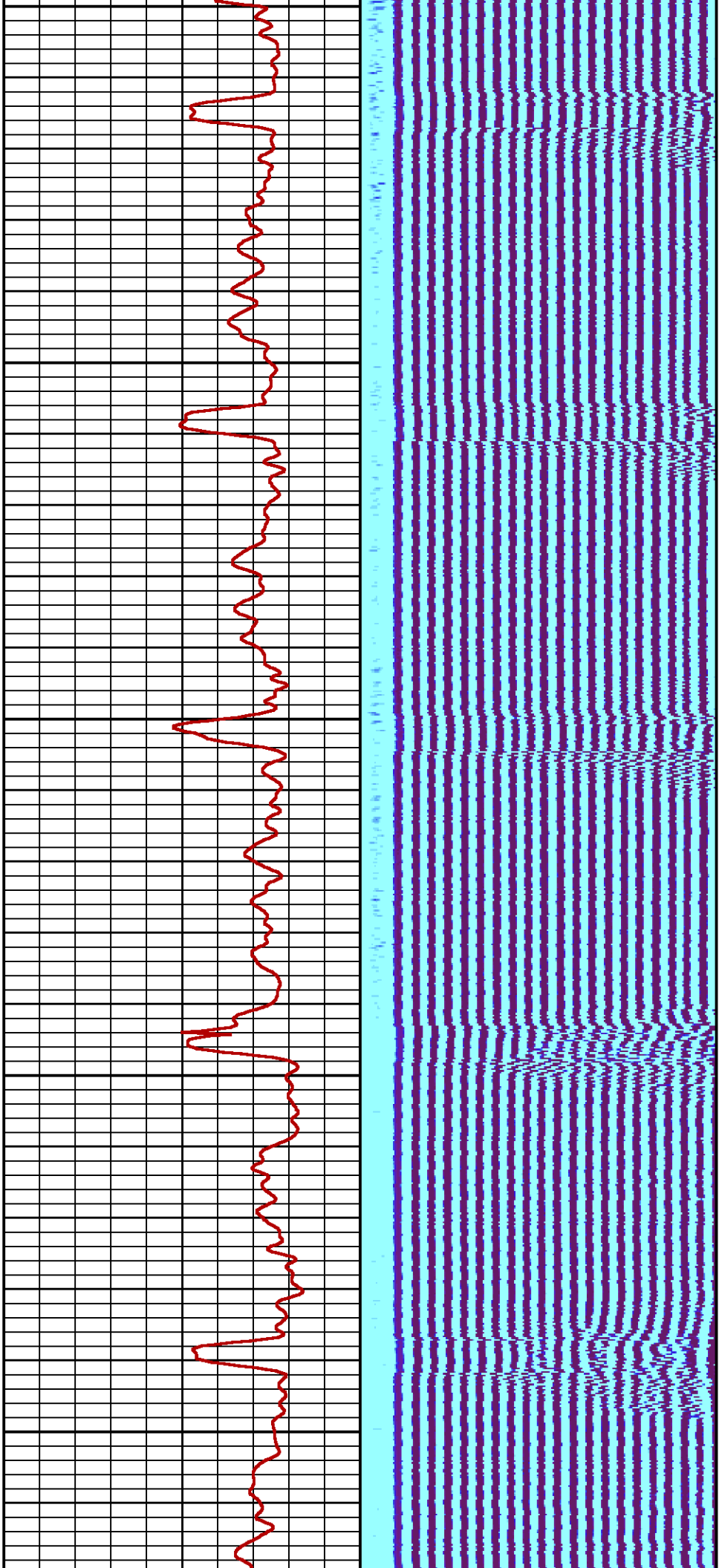
## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Apr 16 14:56:17 2016	CASING COLLAR LOCATOR
F1:FAMPN	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Apr 16 14:56:17 2016	FAR WAVE FORM
F1:GR	Apr 16 14:56:17 2016	GAMMA RAY
F1:TTN	Apr 16 14:56:17 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

## CURVE MEASURE POINT OFFSET

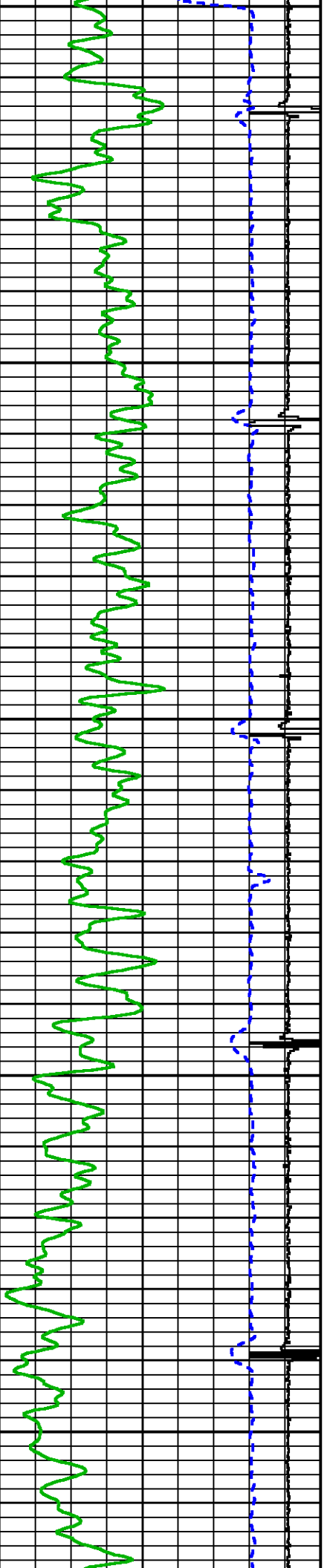
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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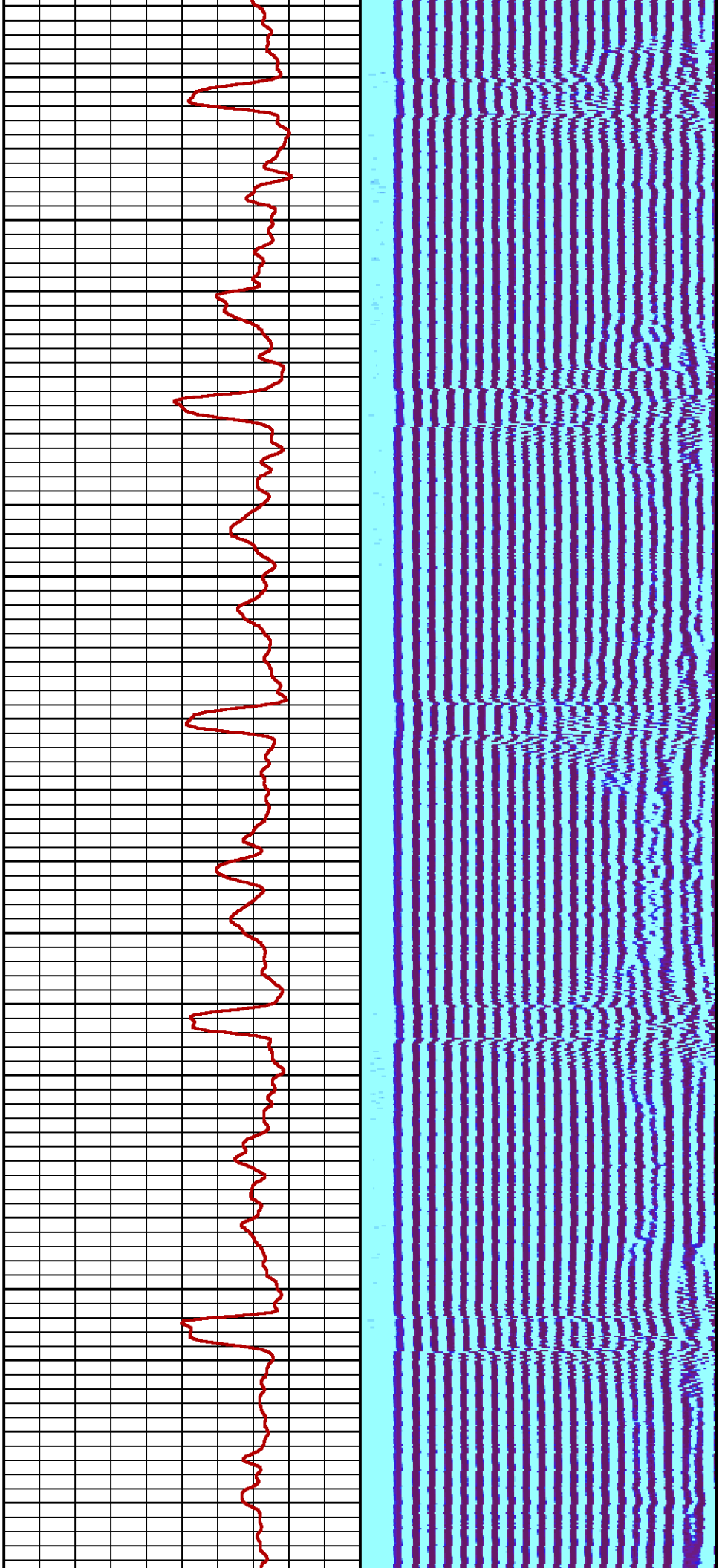


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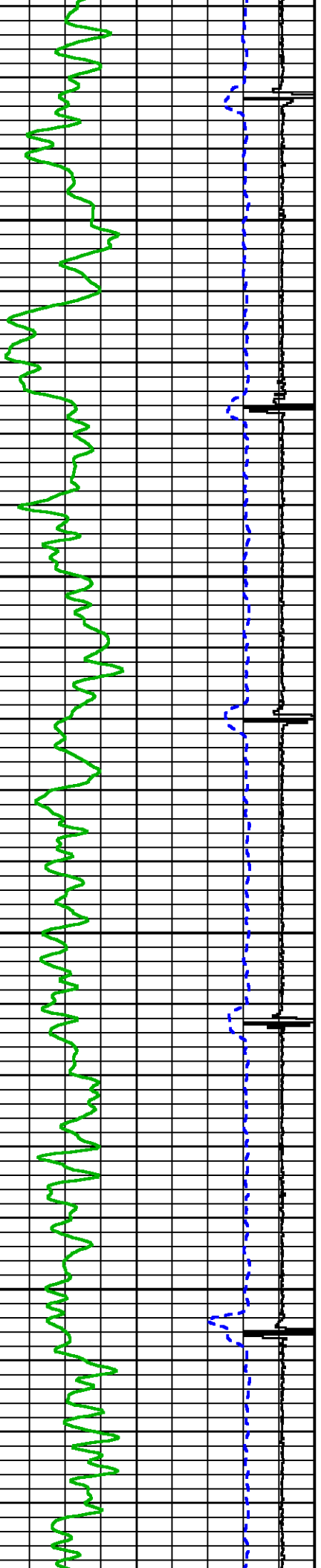


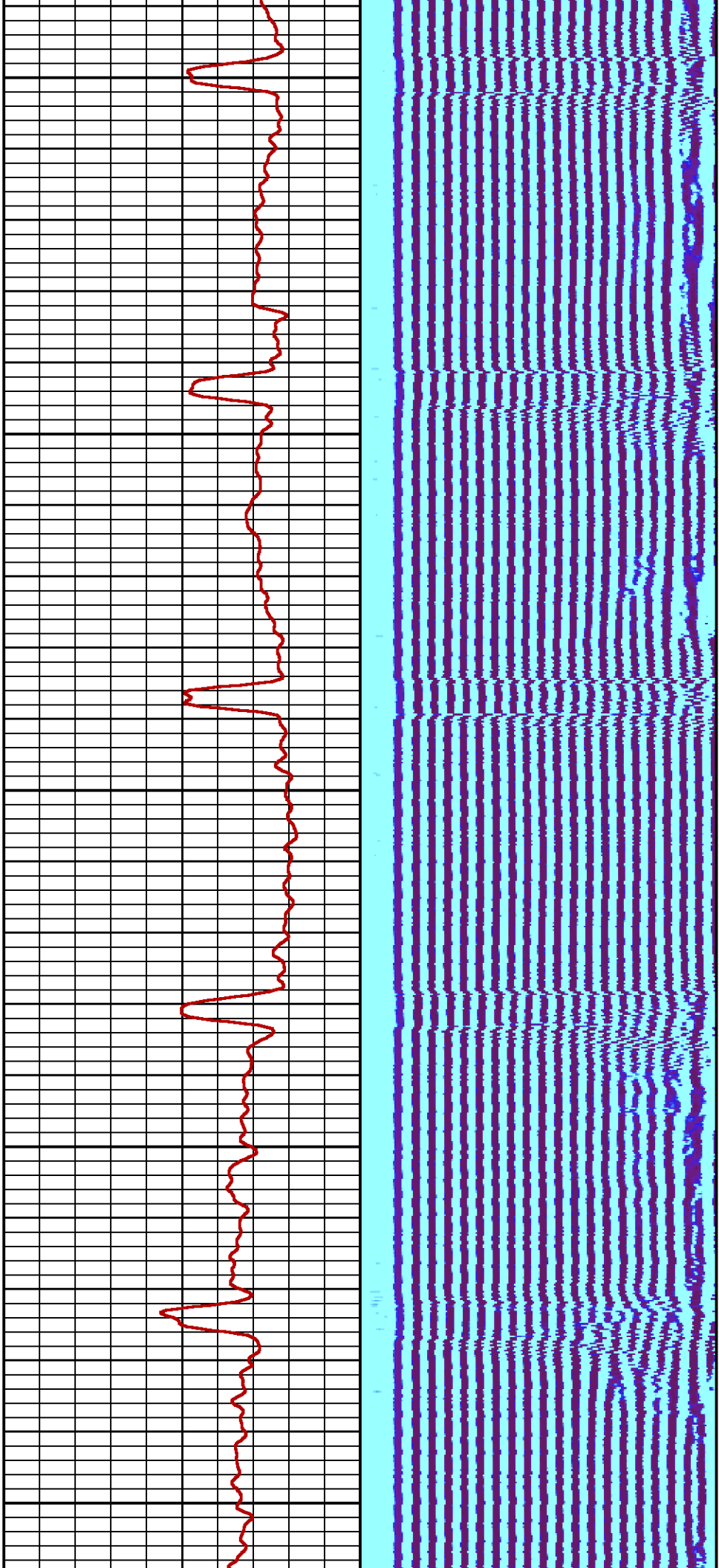




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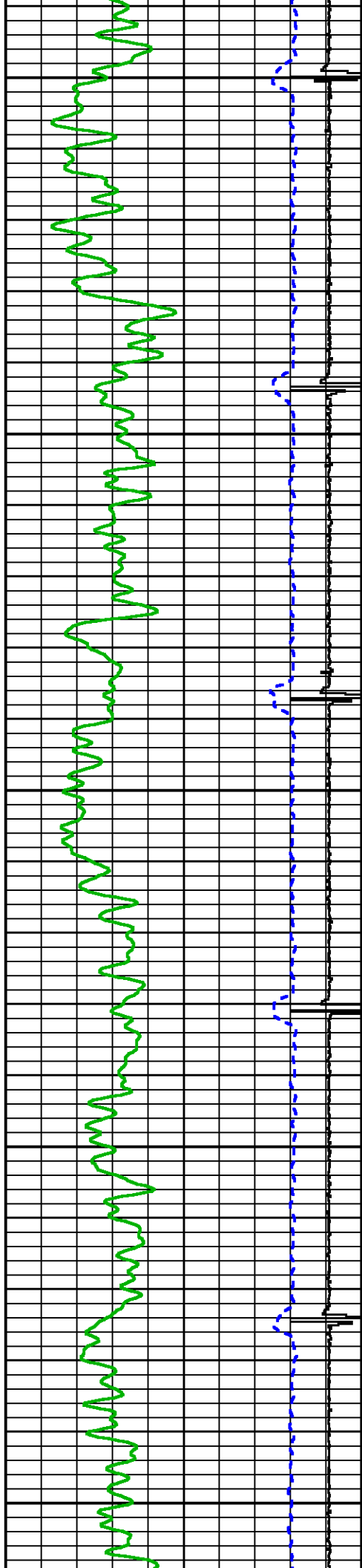


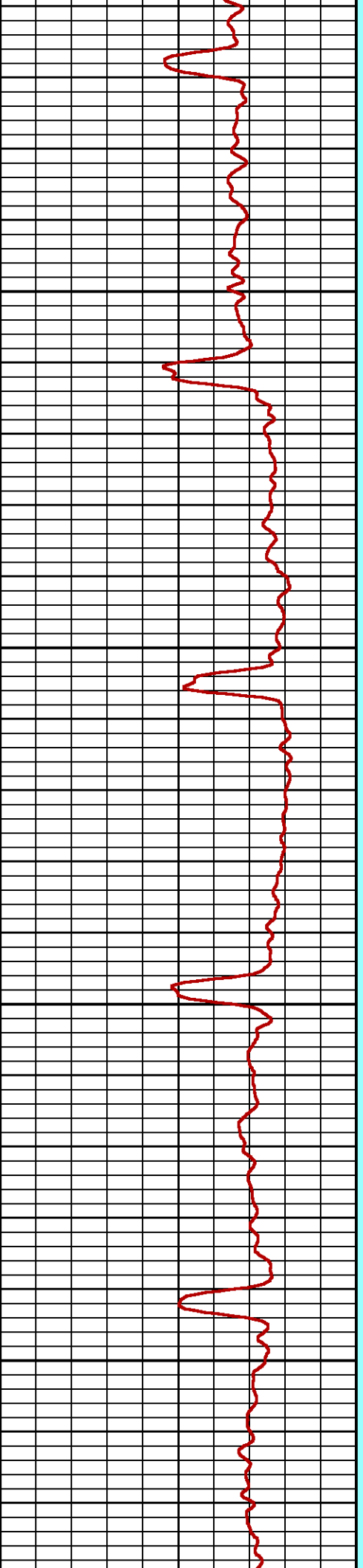
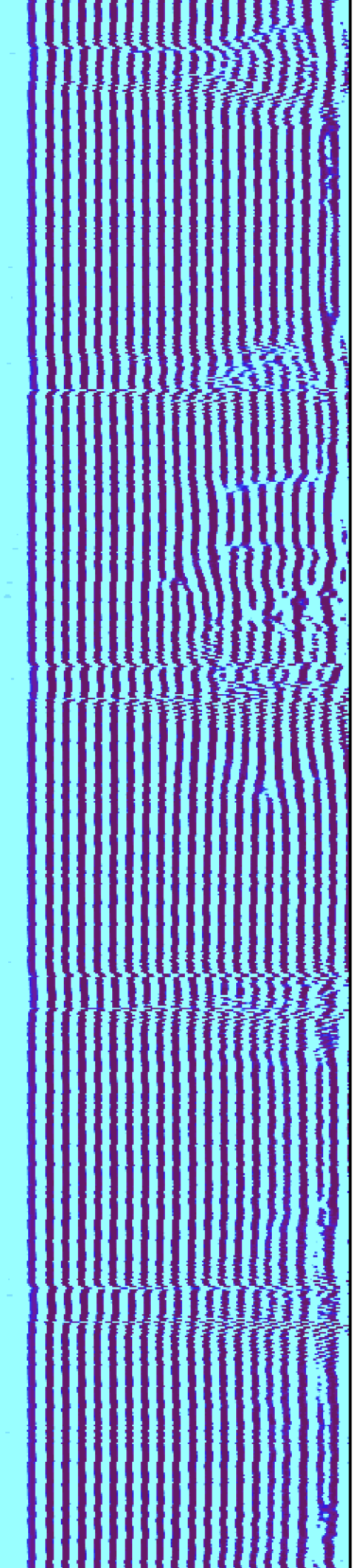


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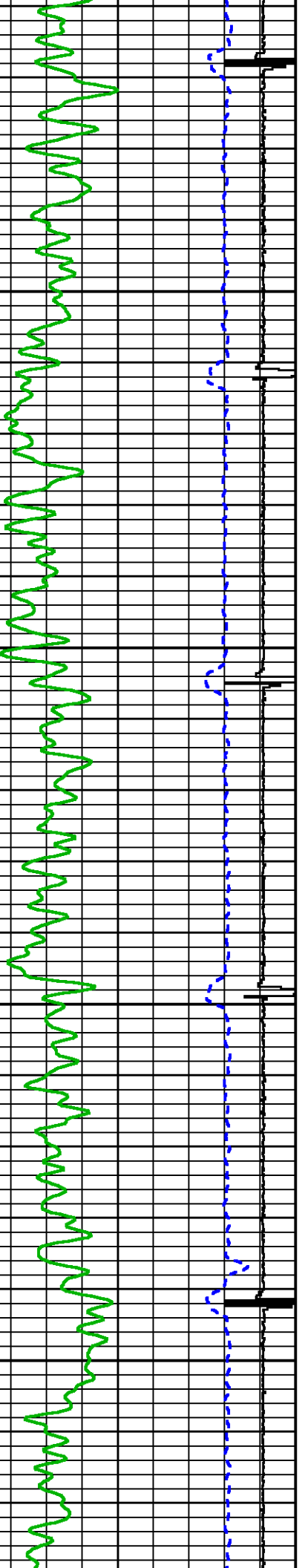
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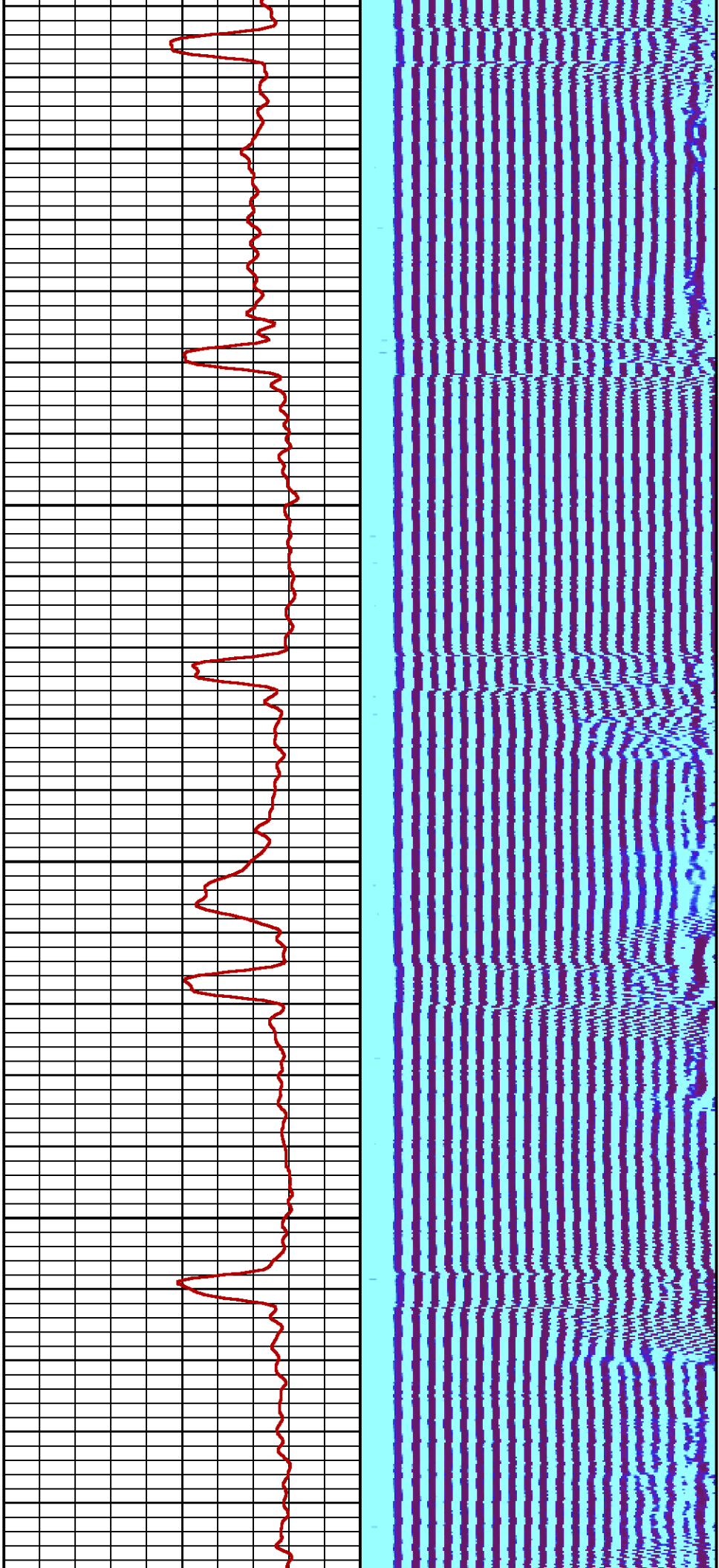




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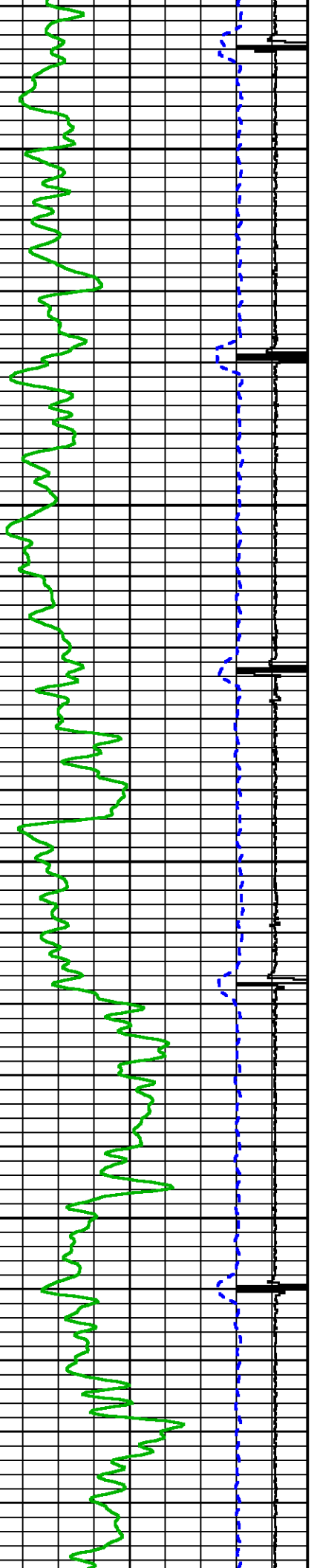
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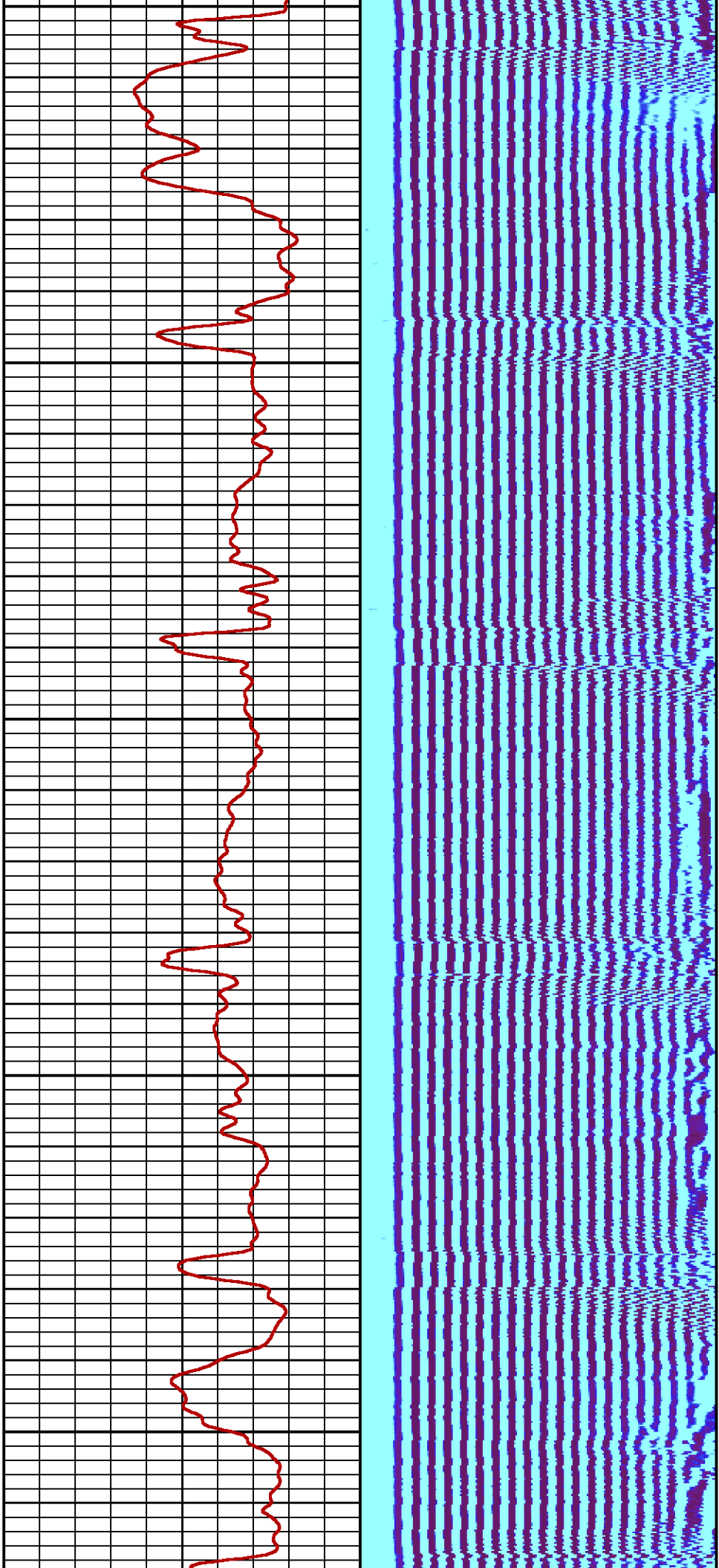


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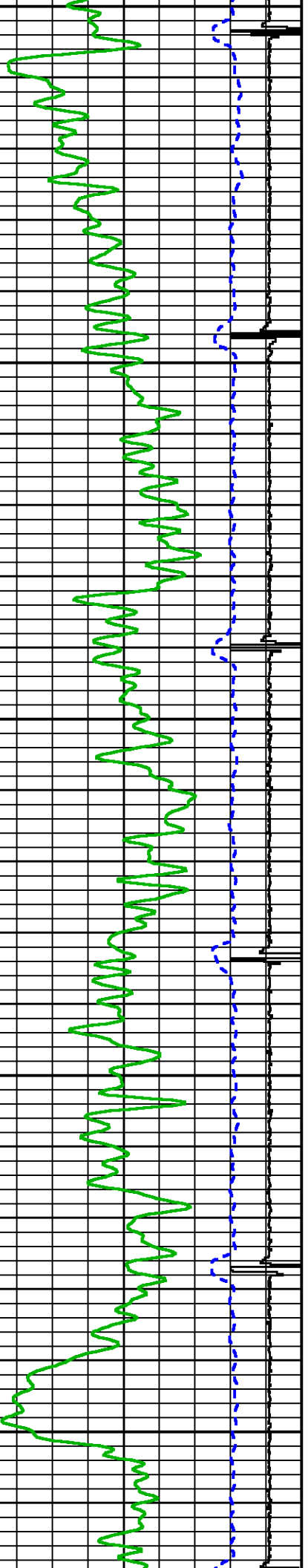


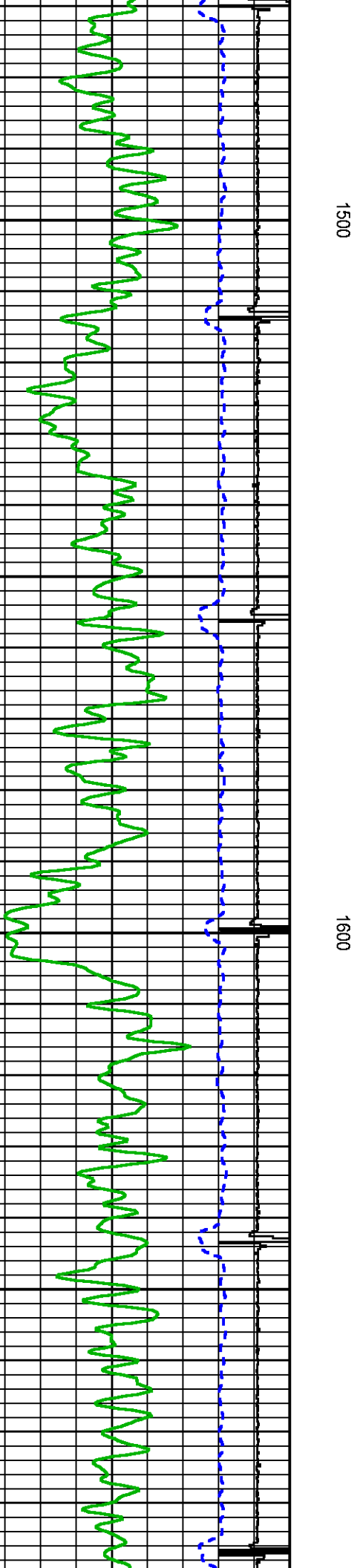
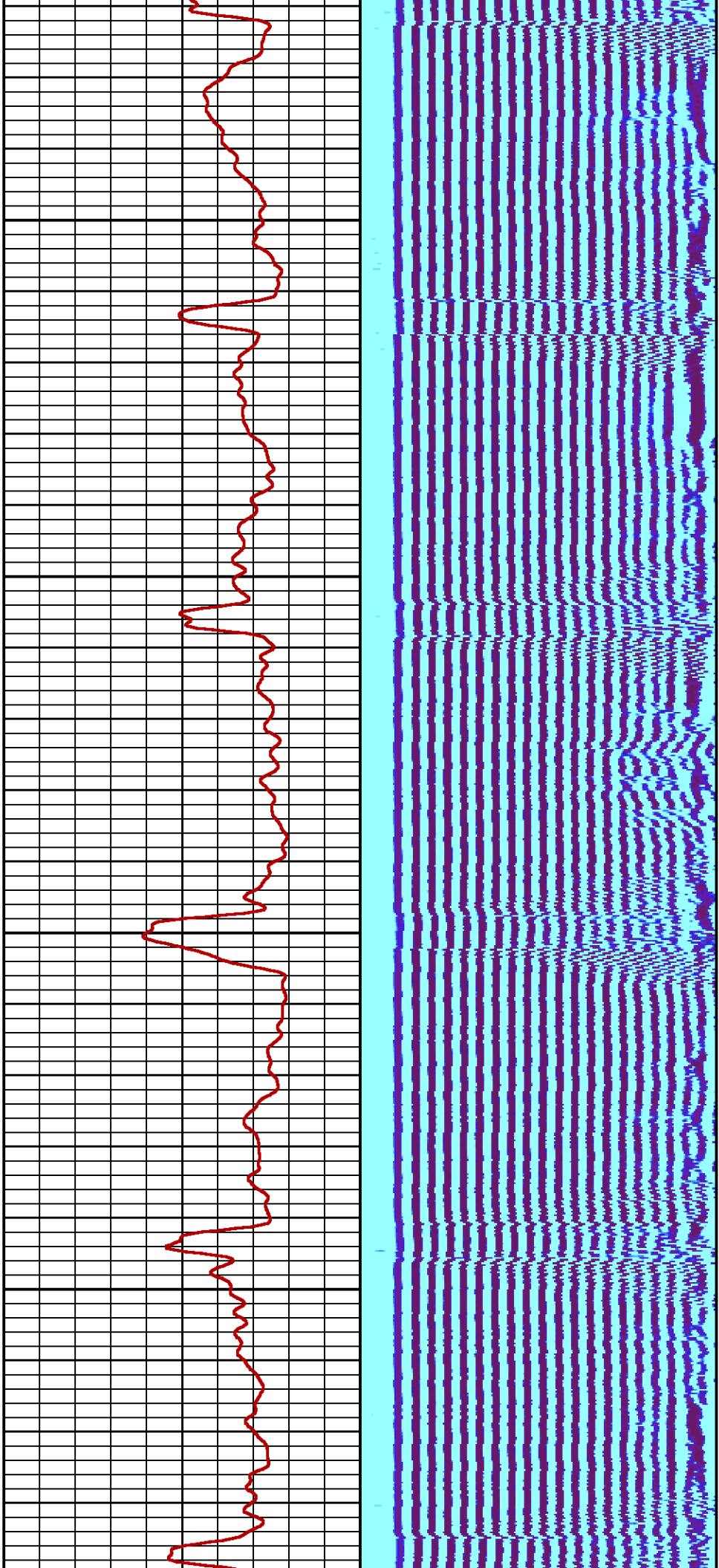


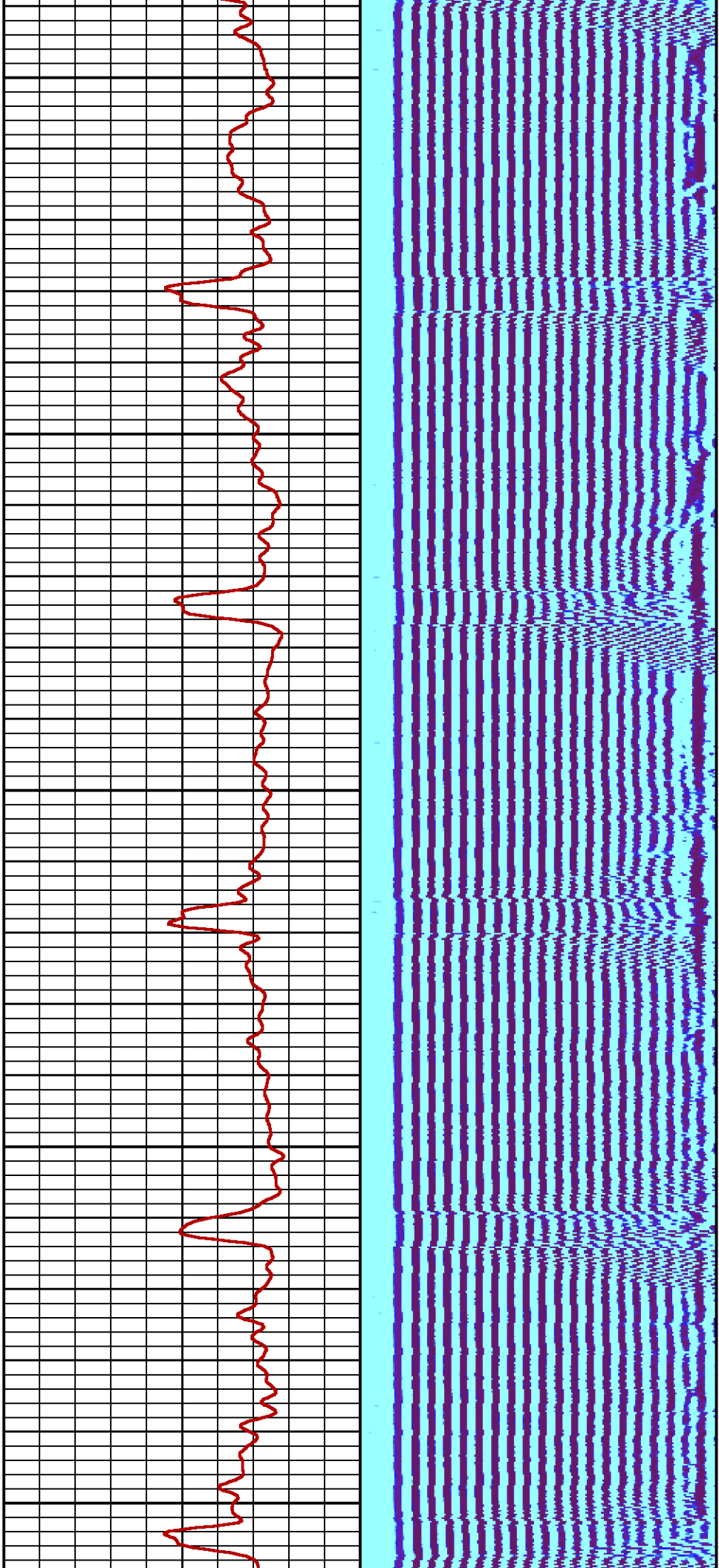


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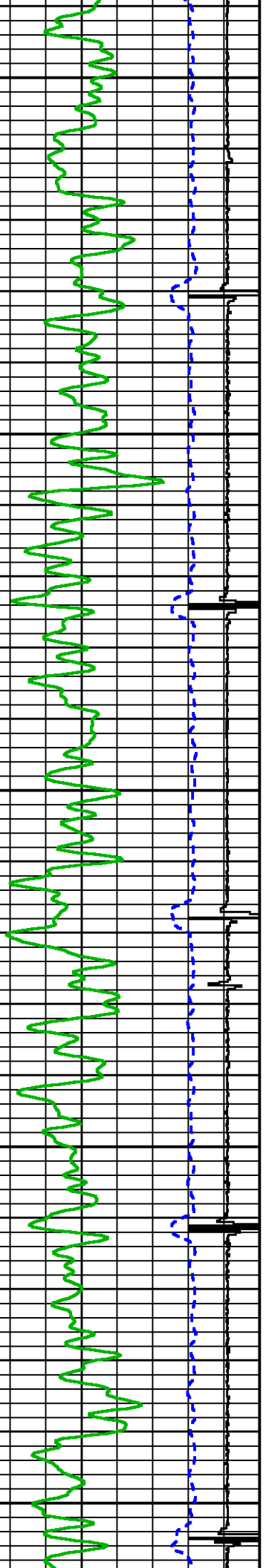




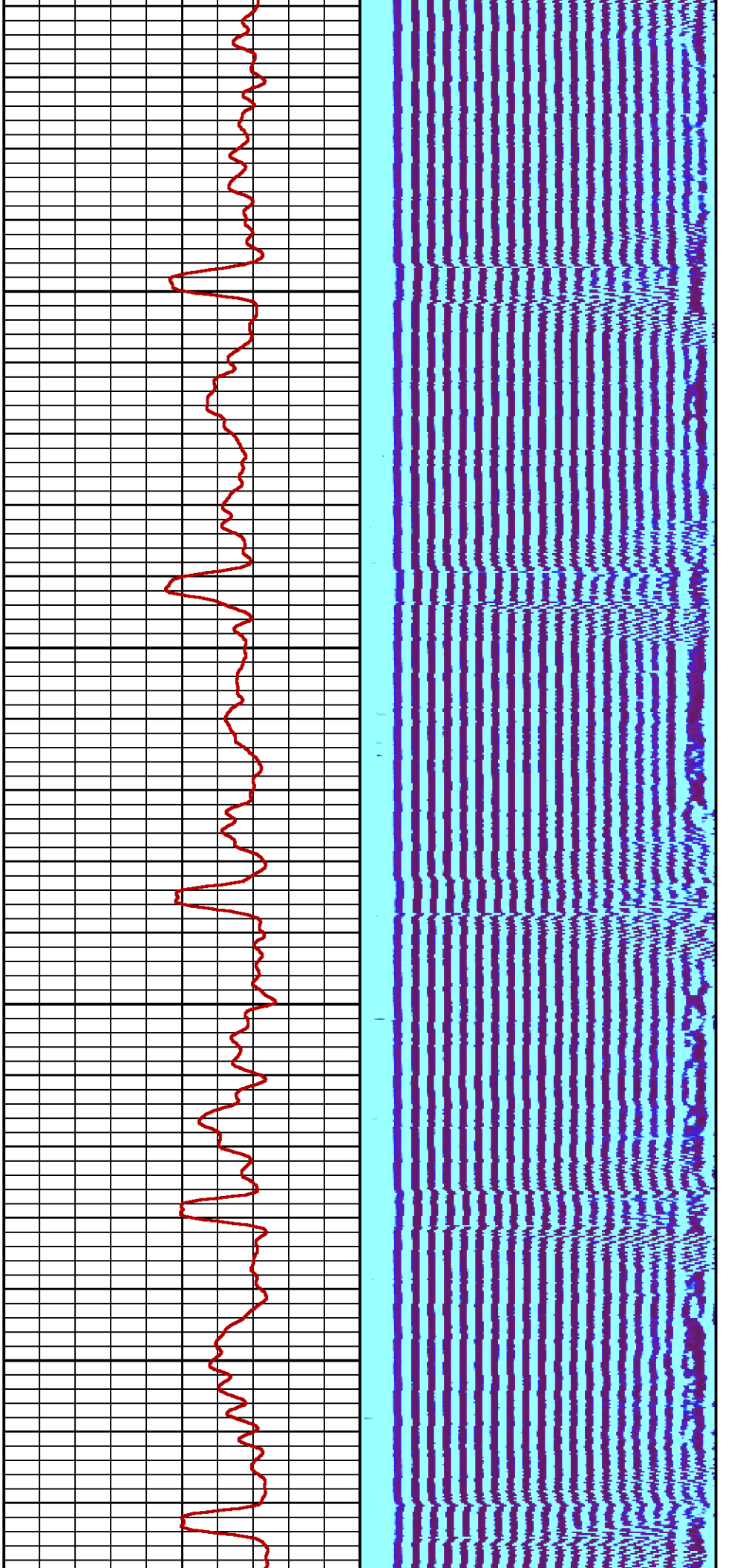
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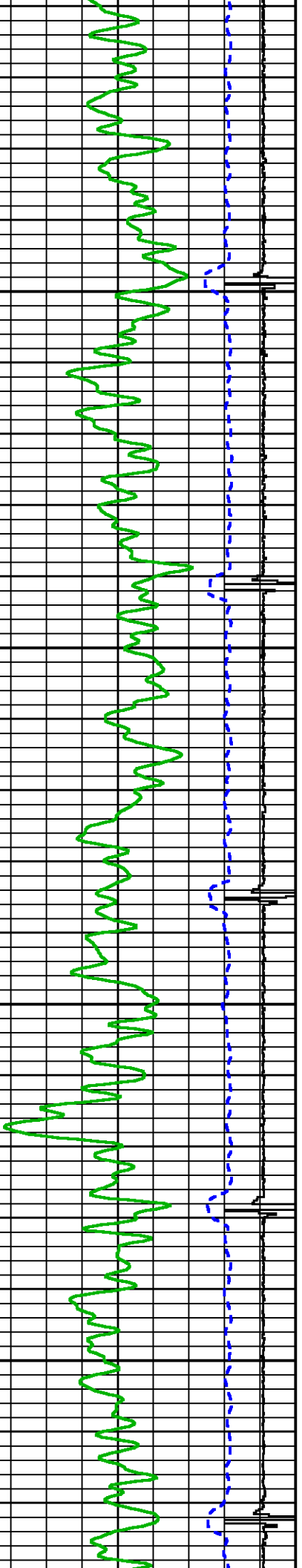


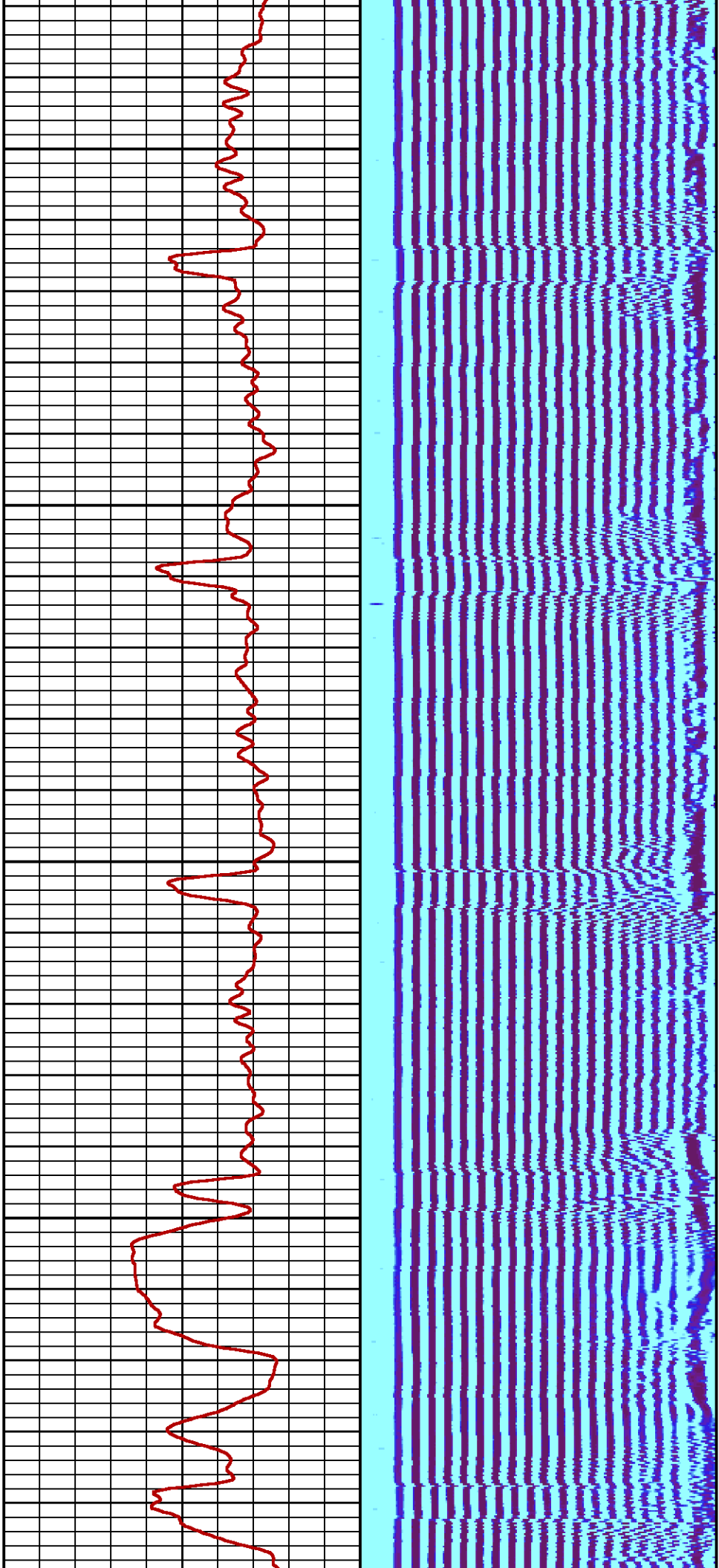




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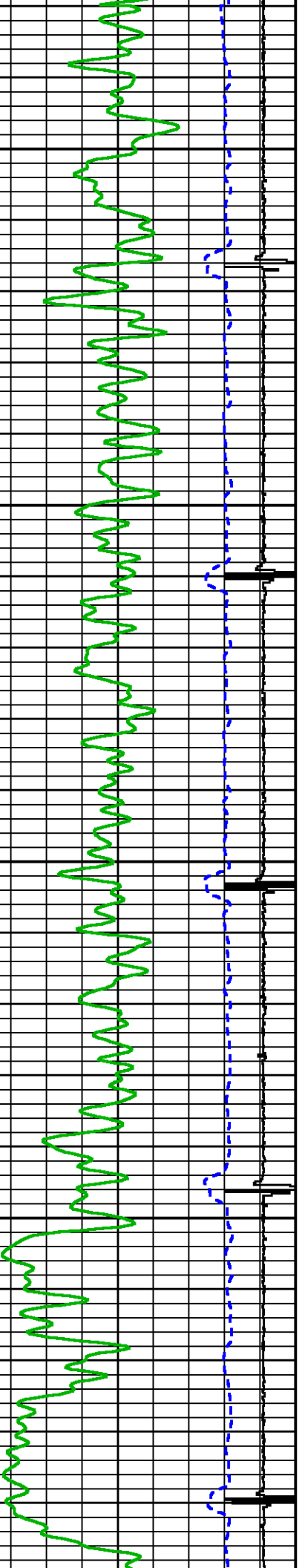
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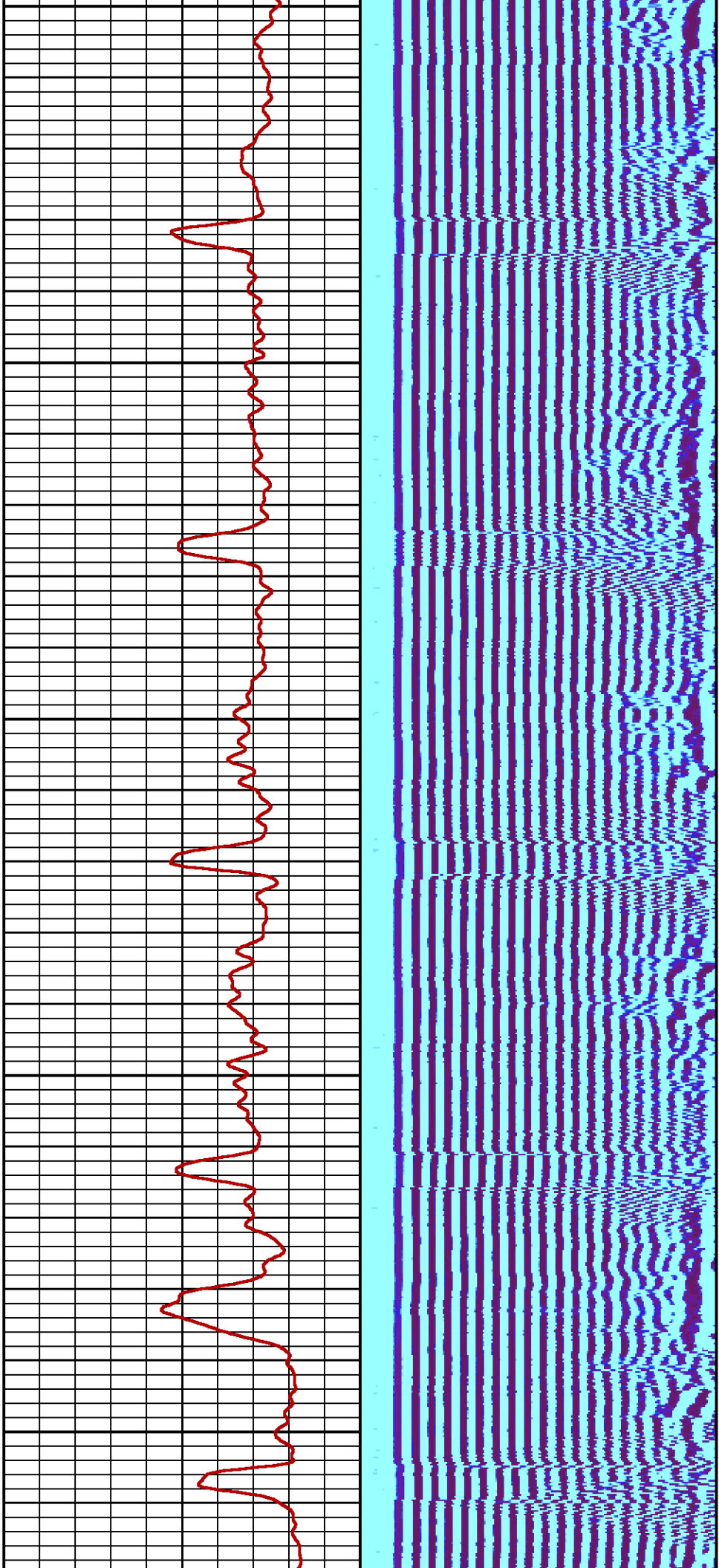




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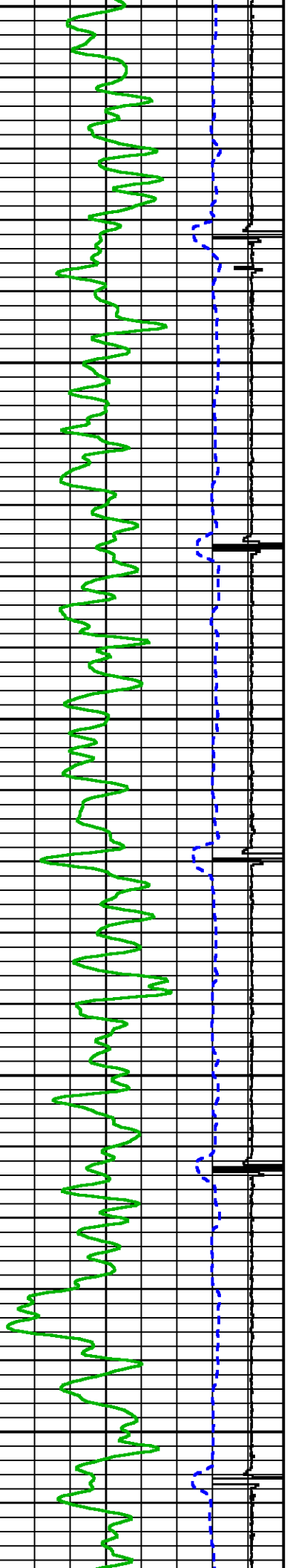
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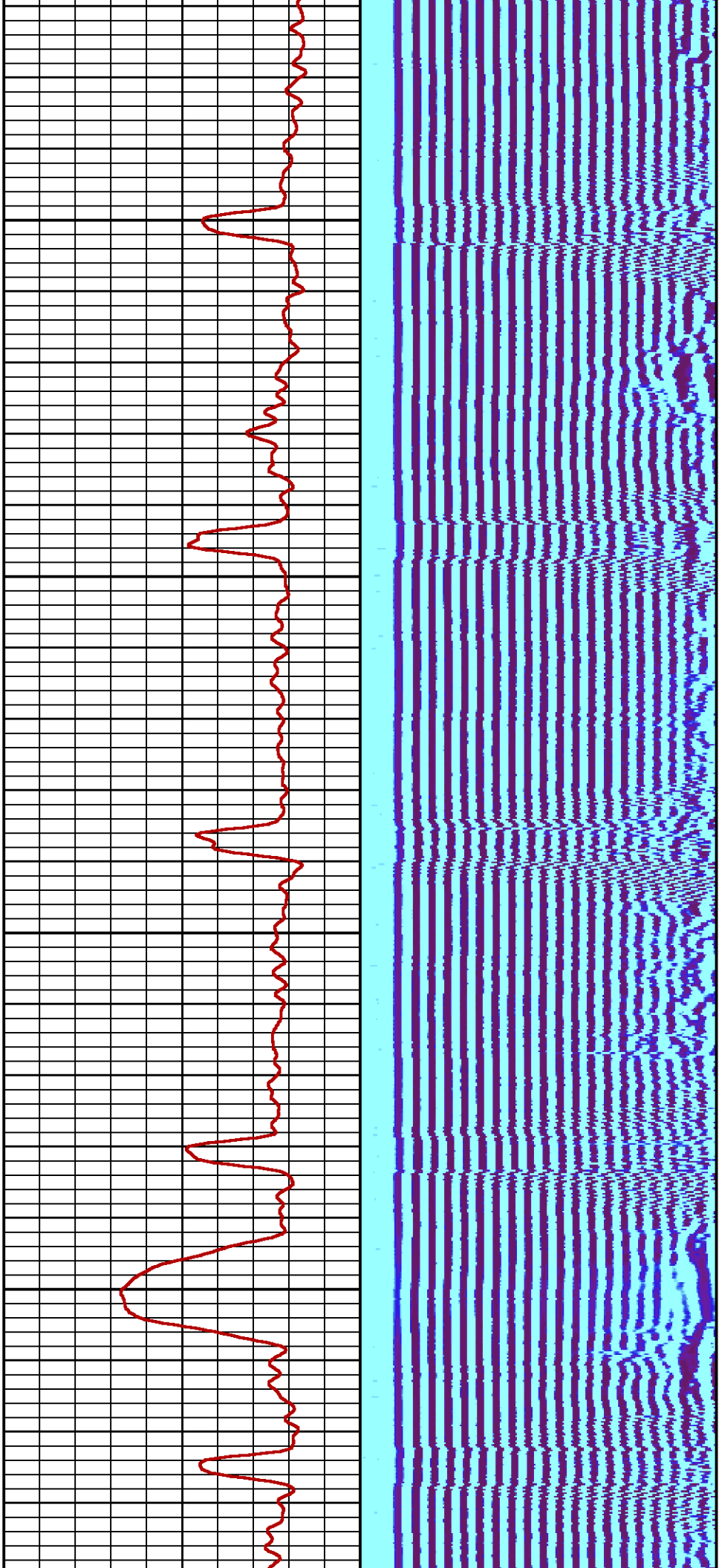




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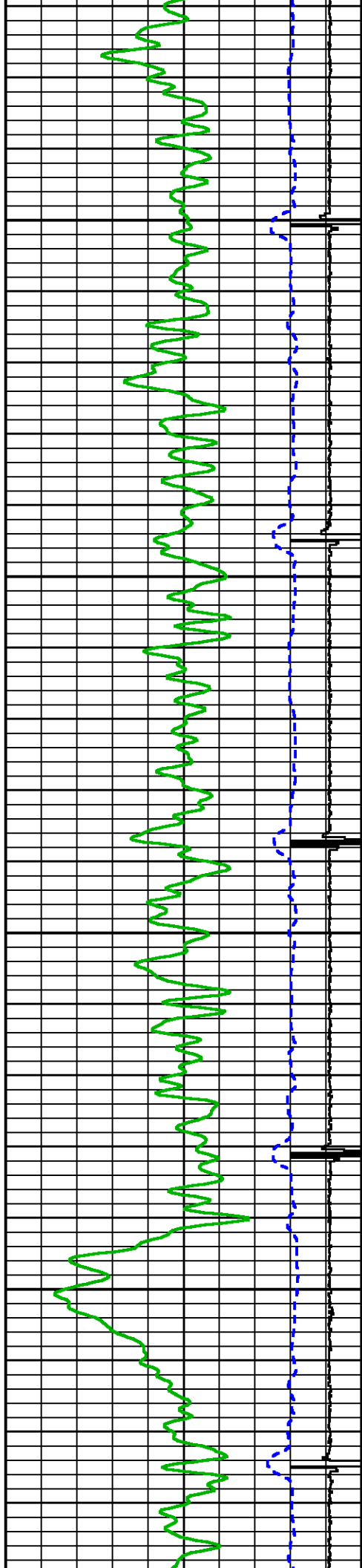
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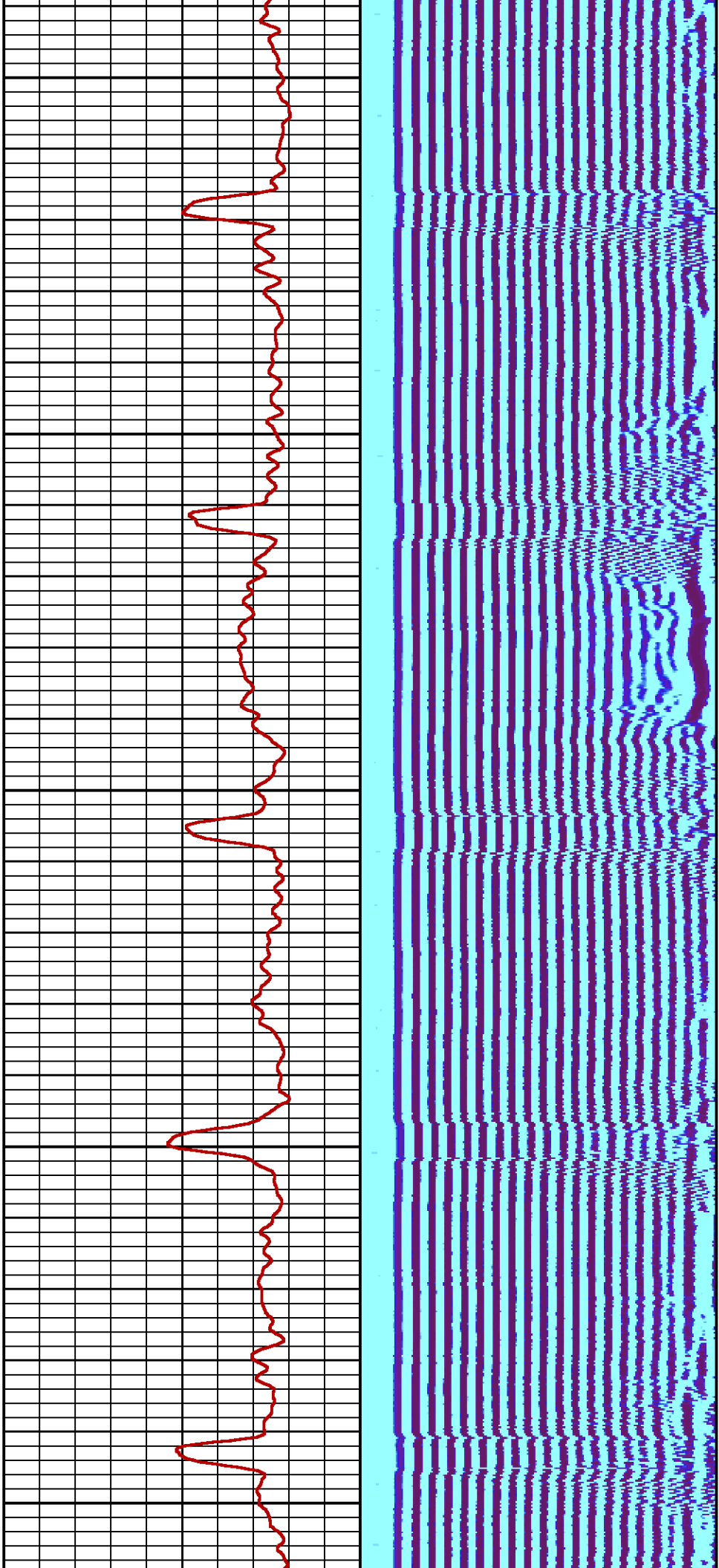


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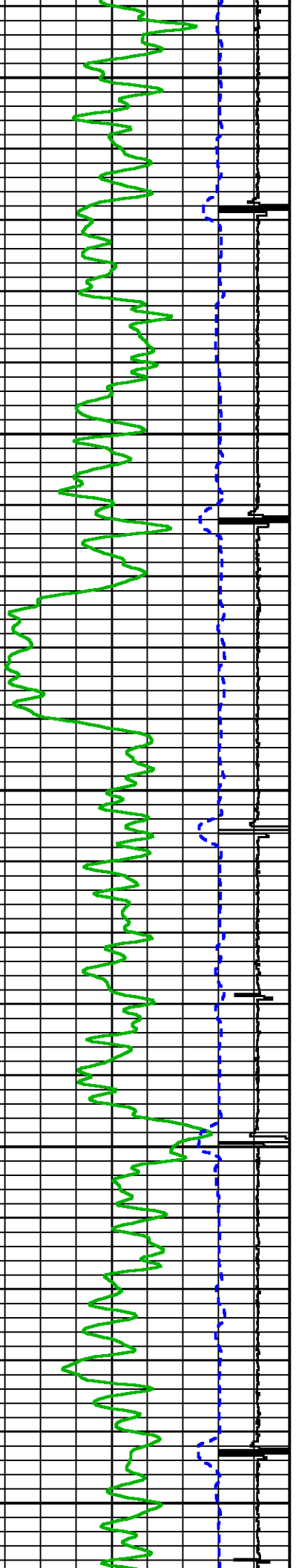


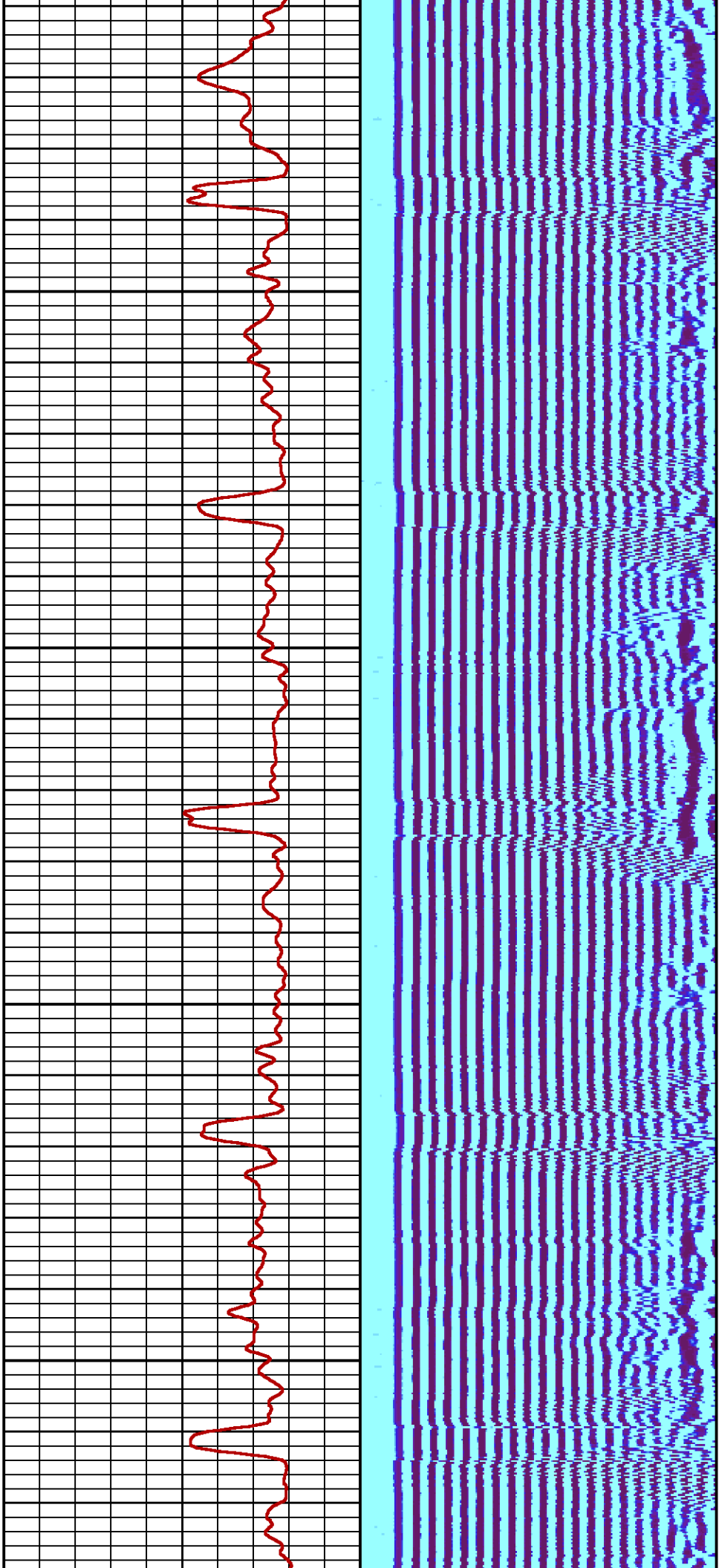


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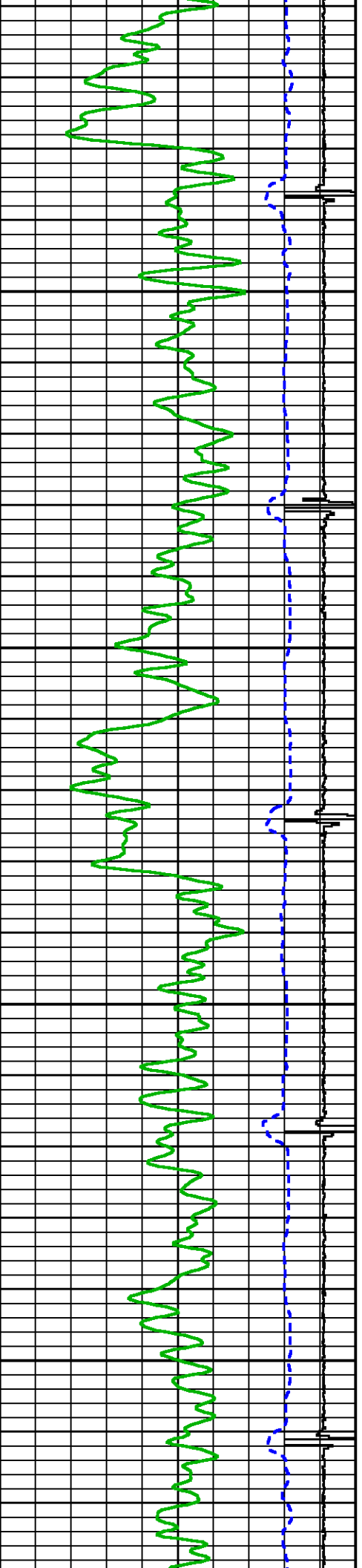
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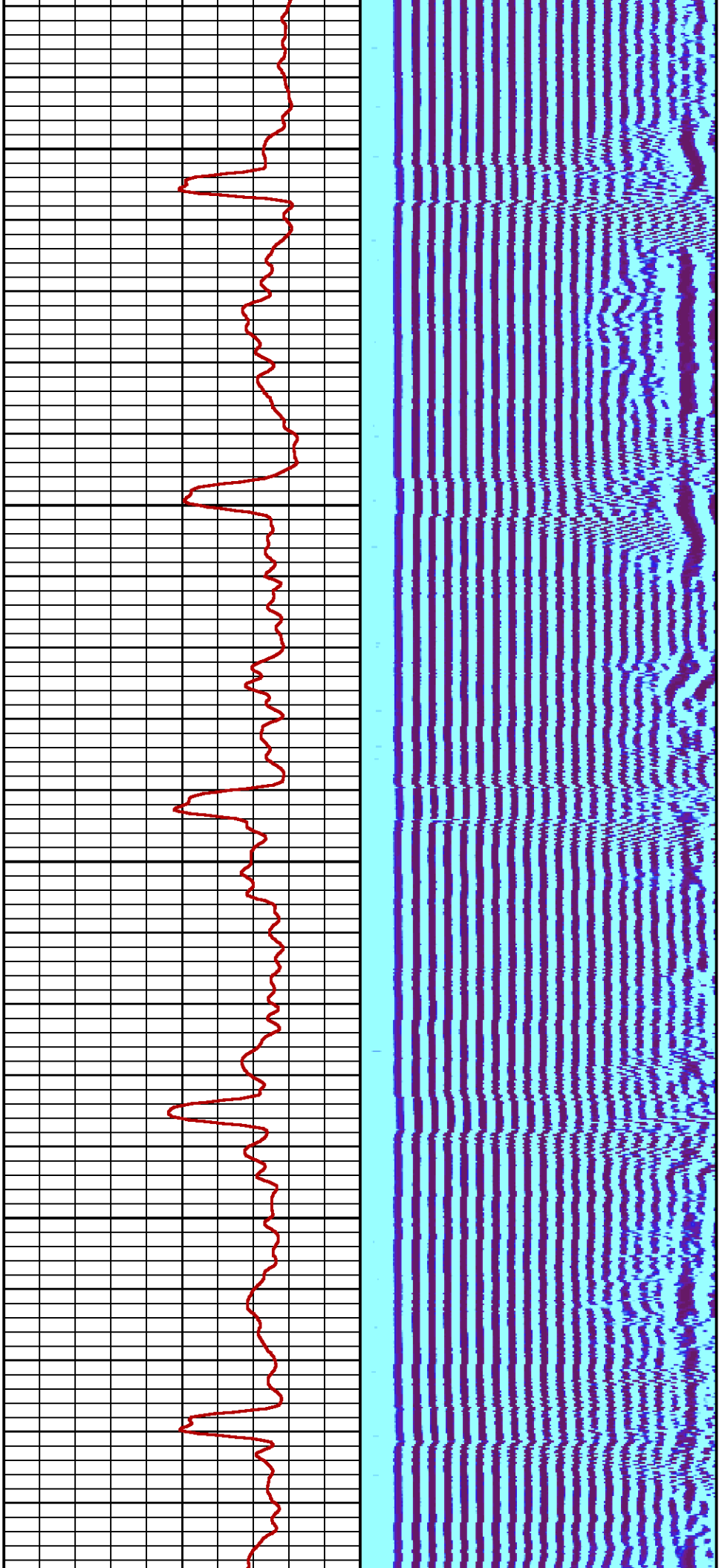




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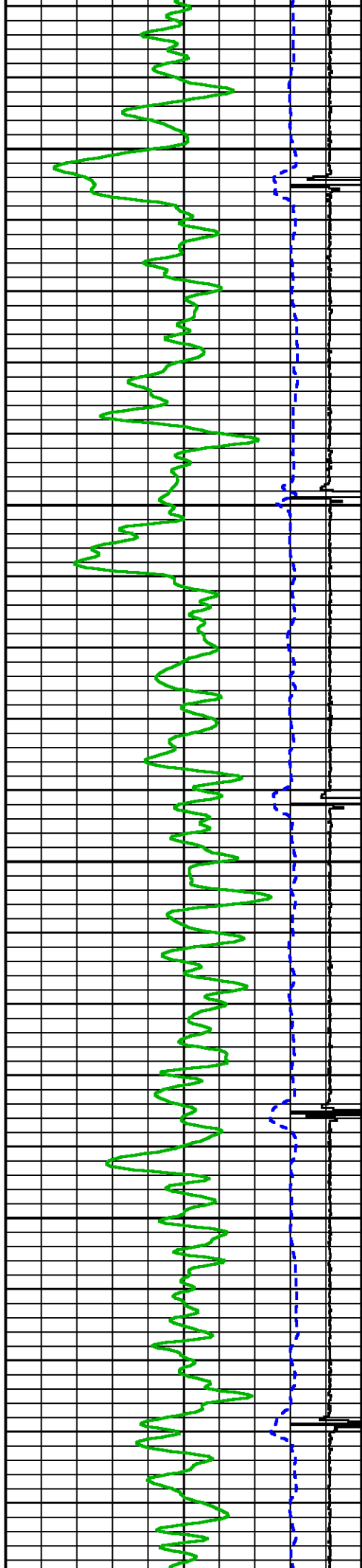
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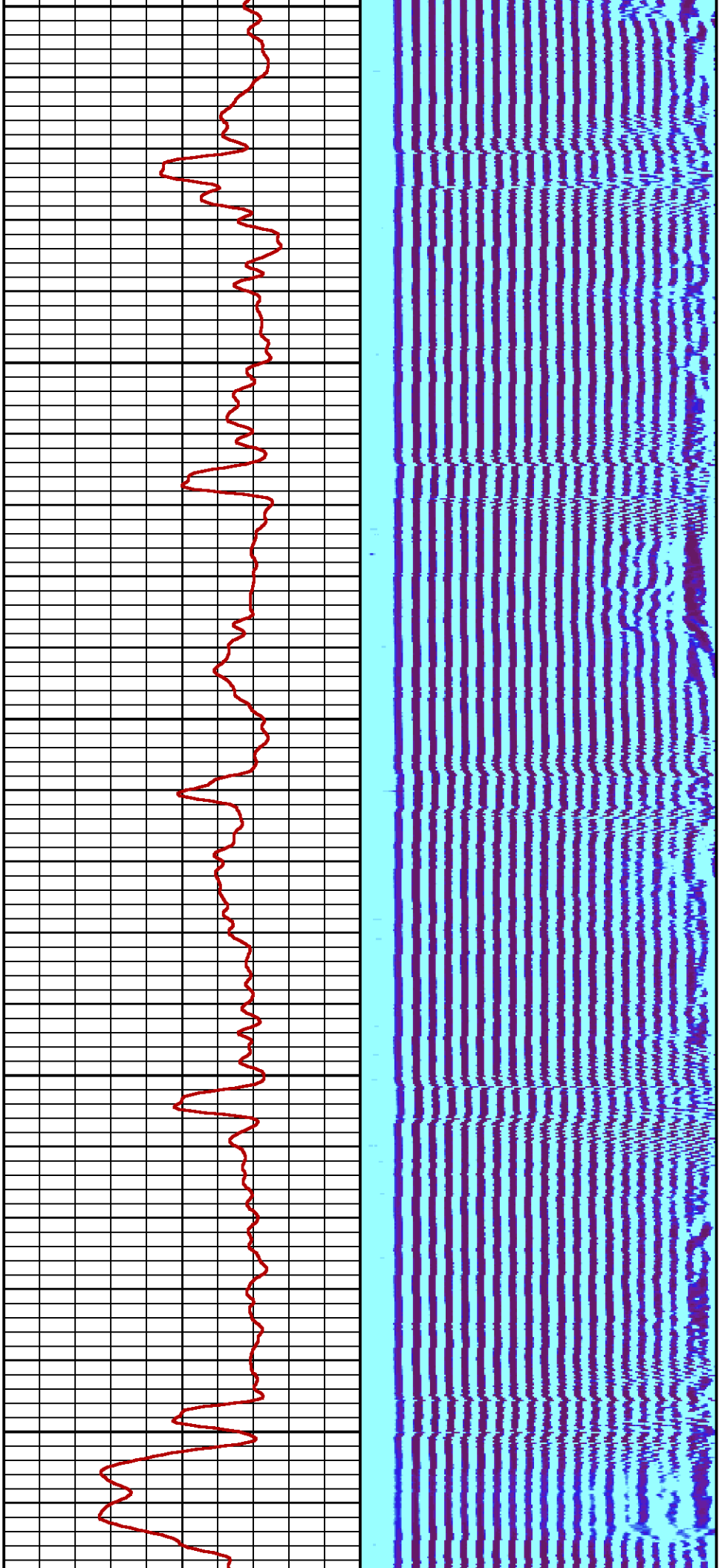


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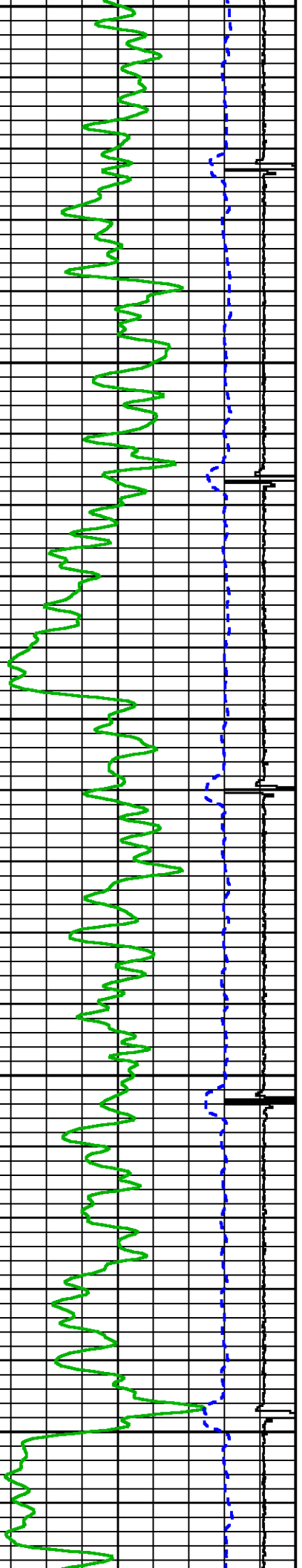


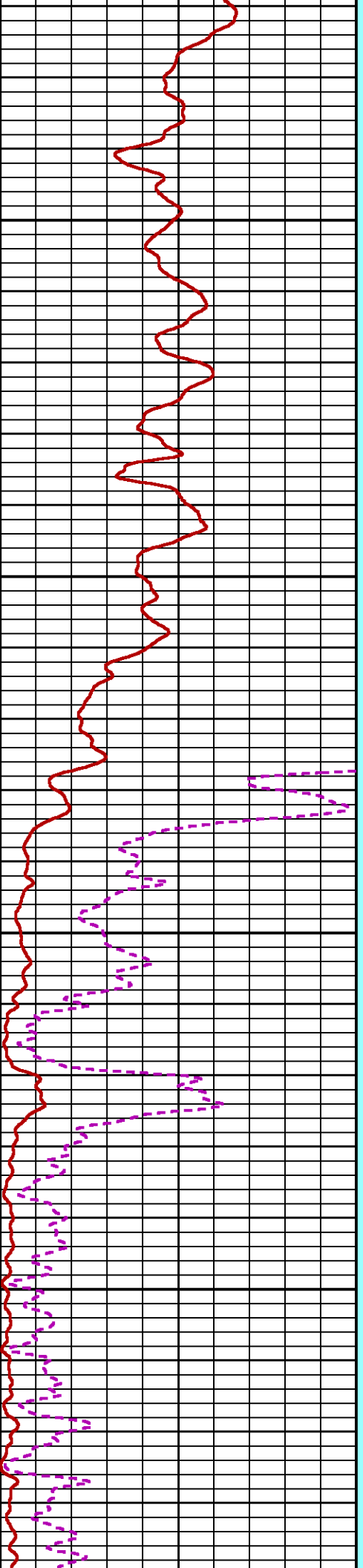
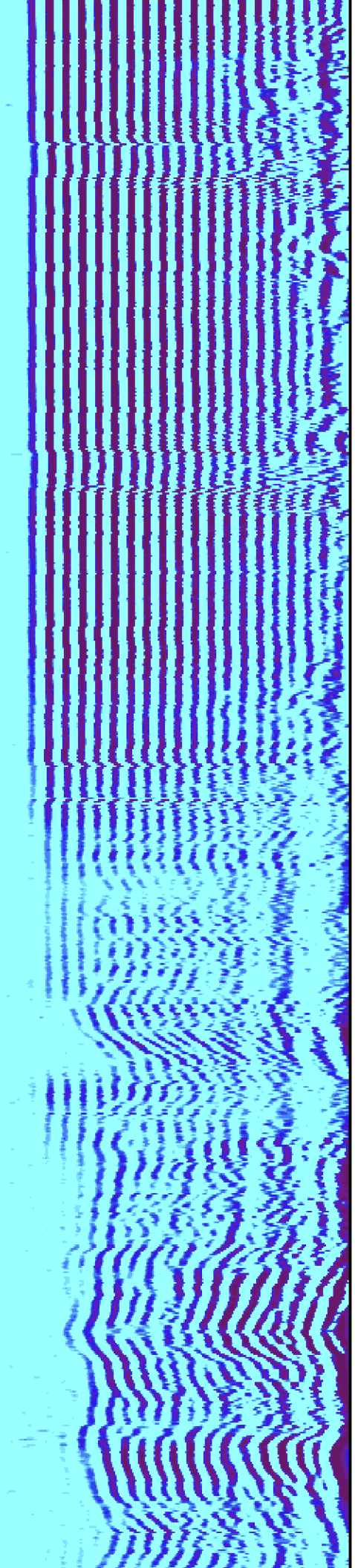




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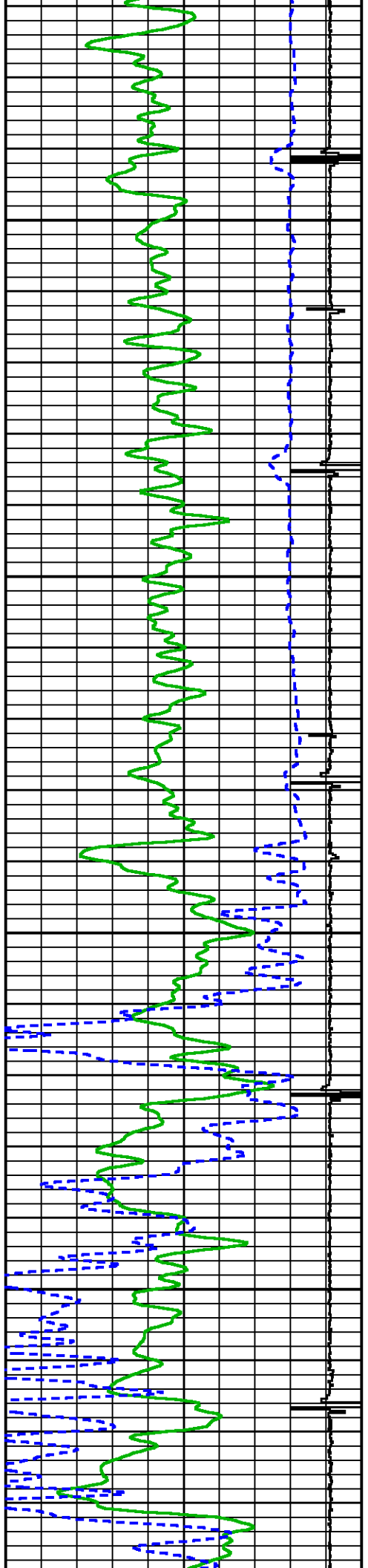
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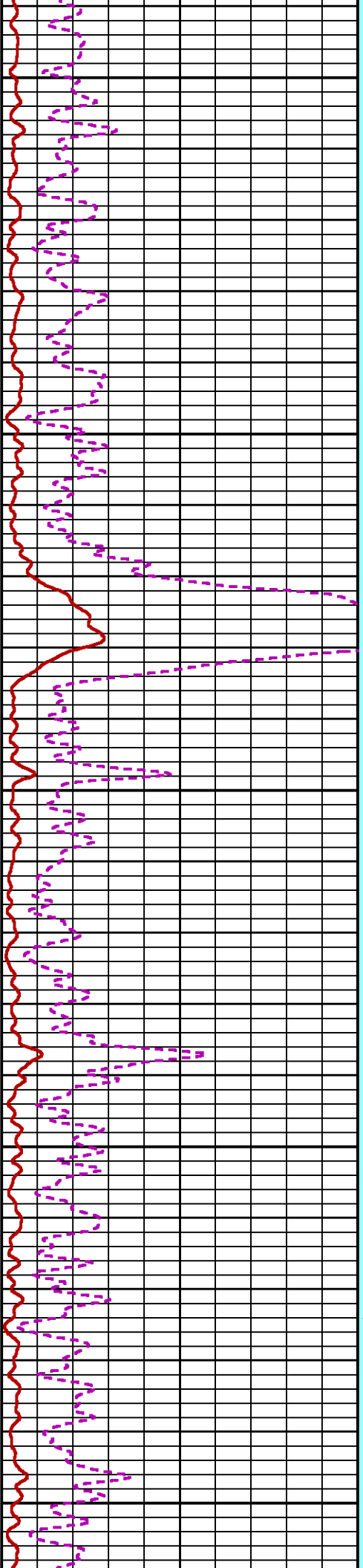
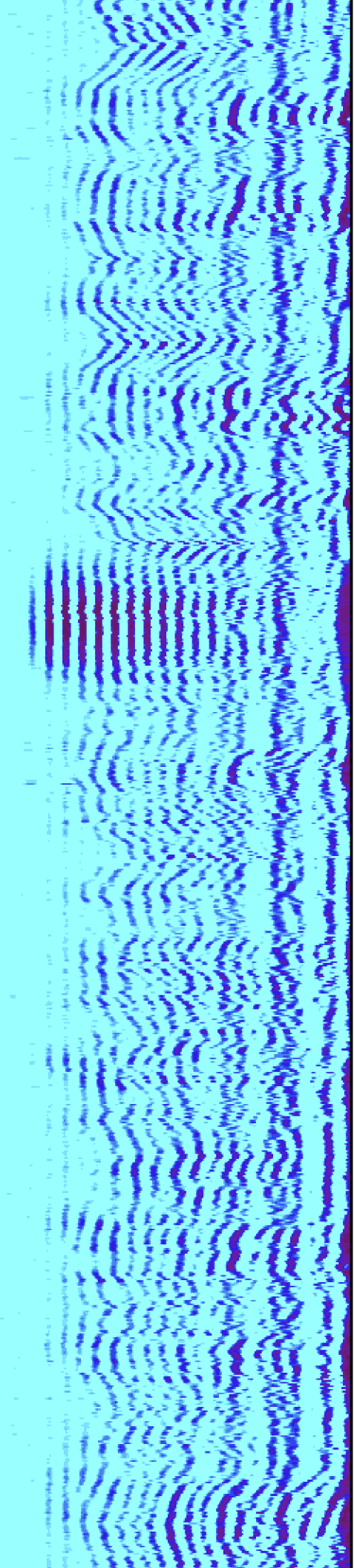




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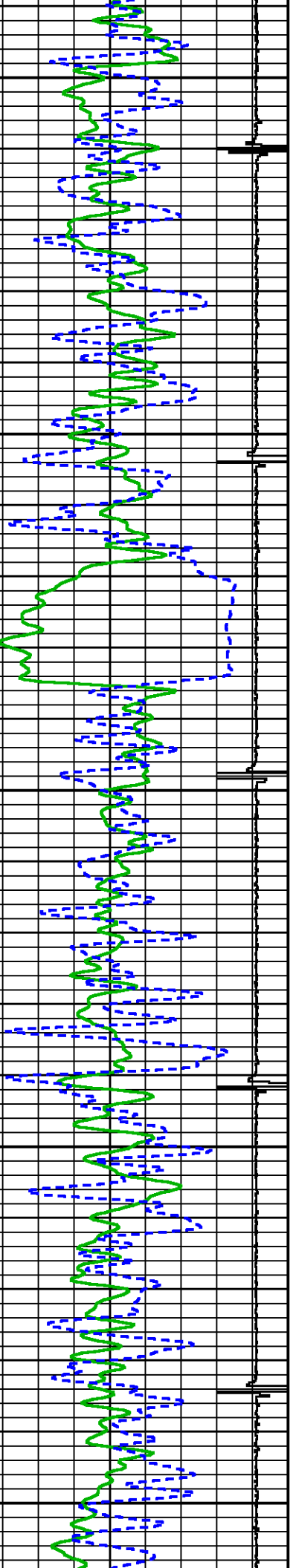


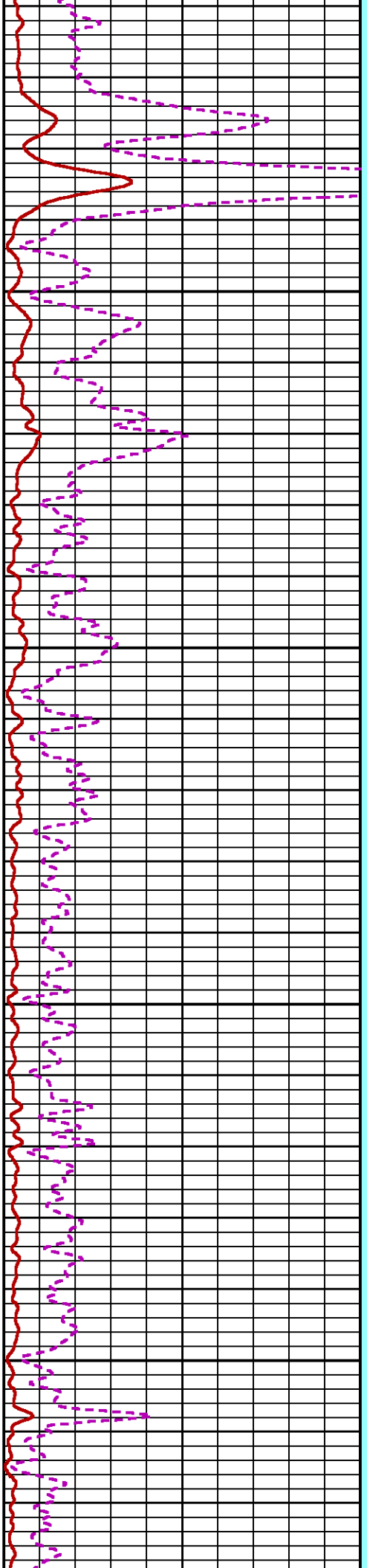
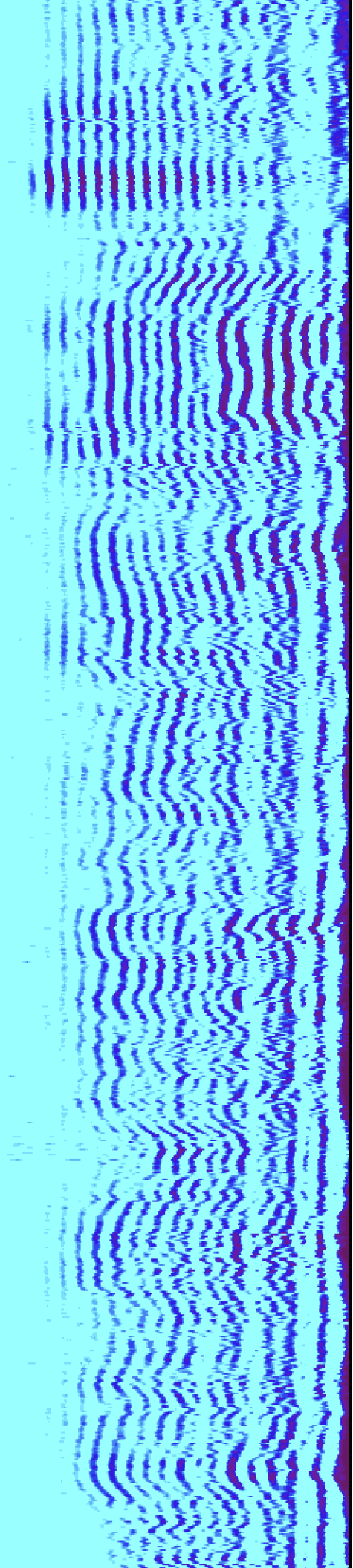


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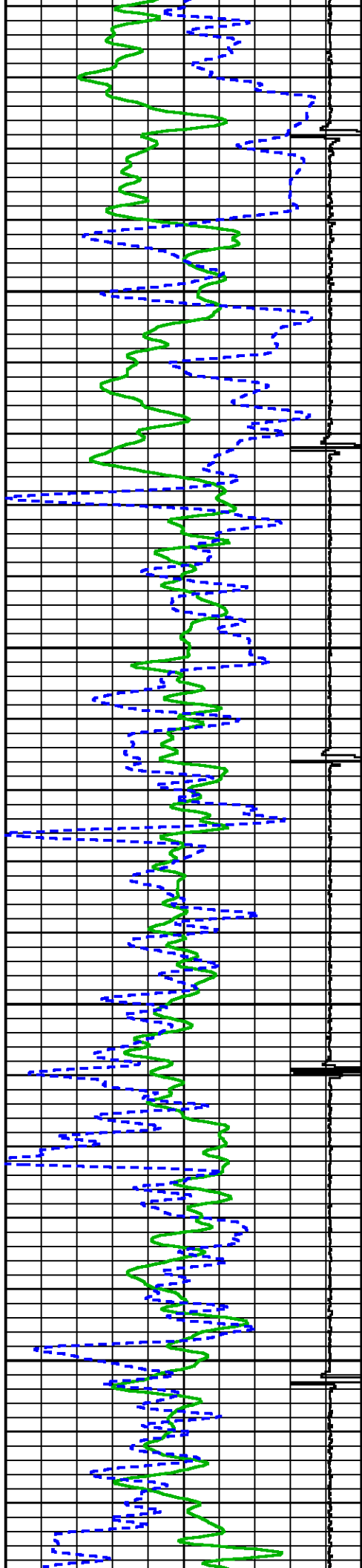
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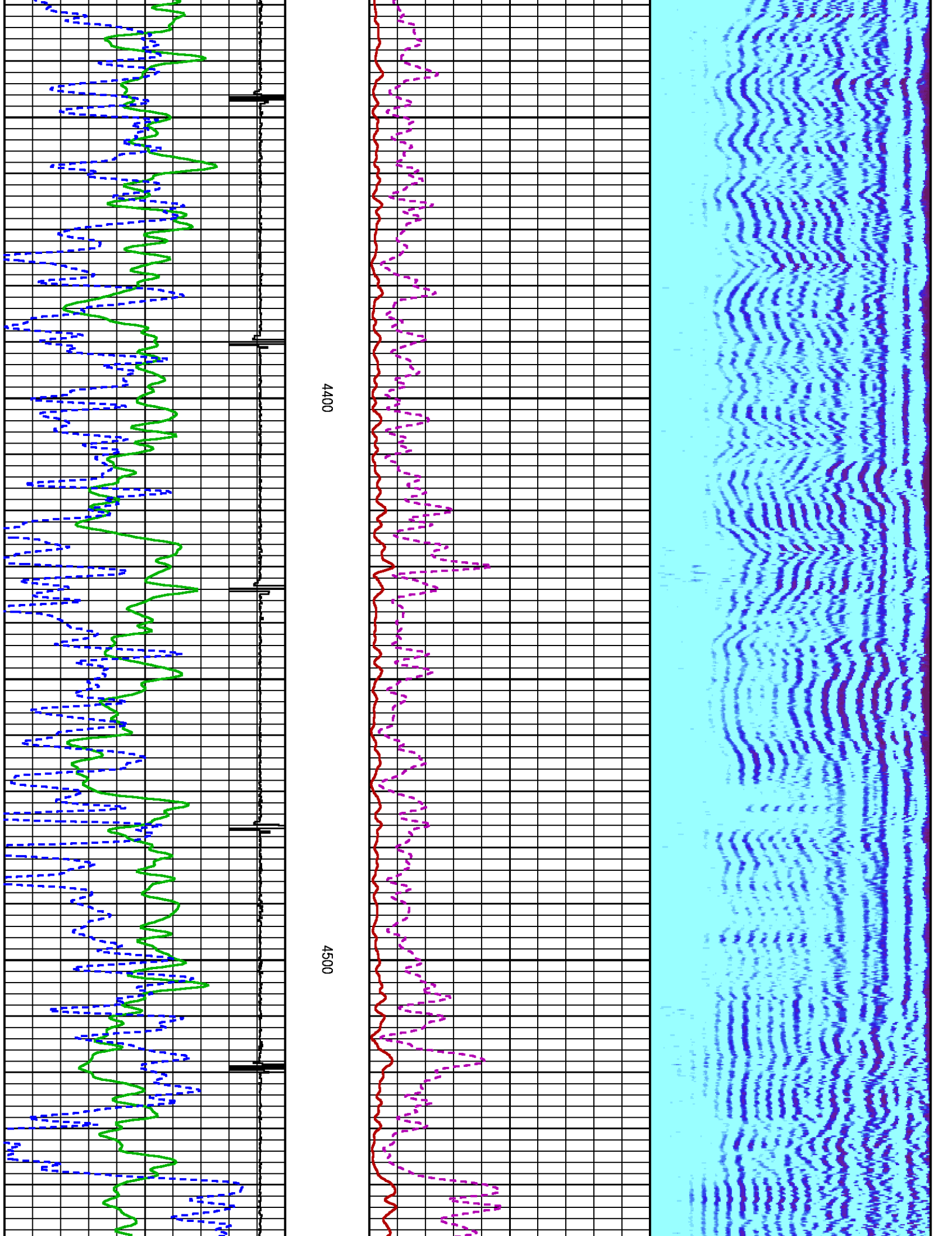


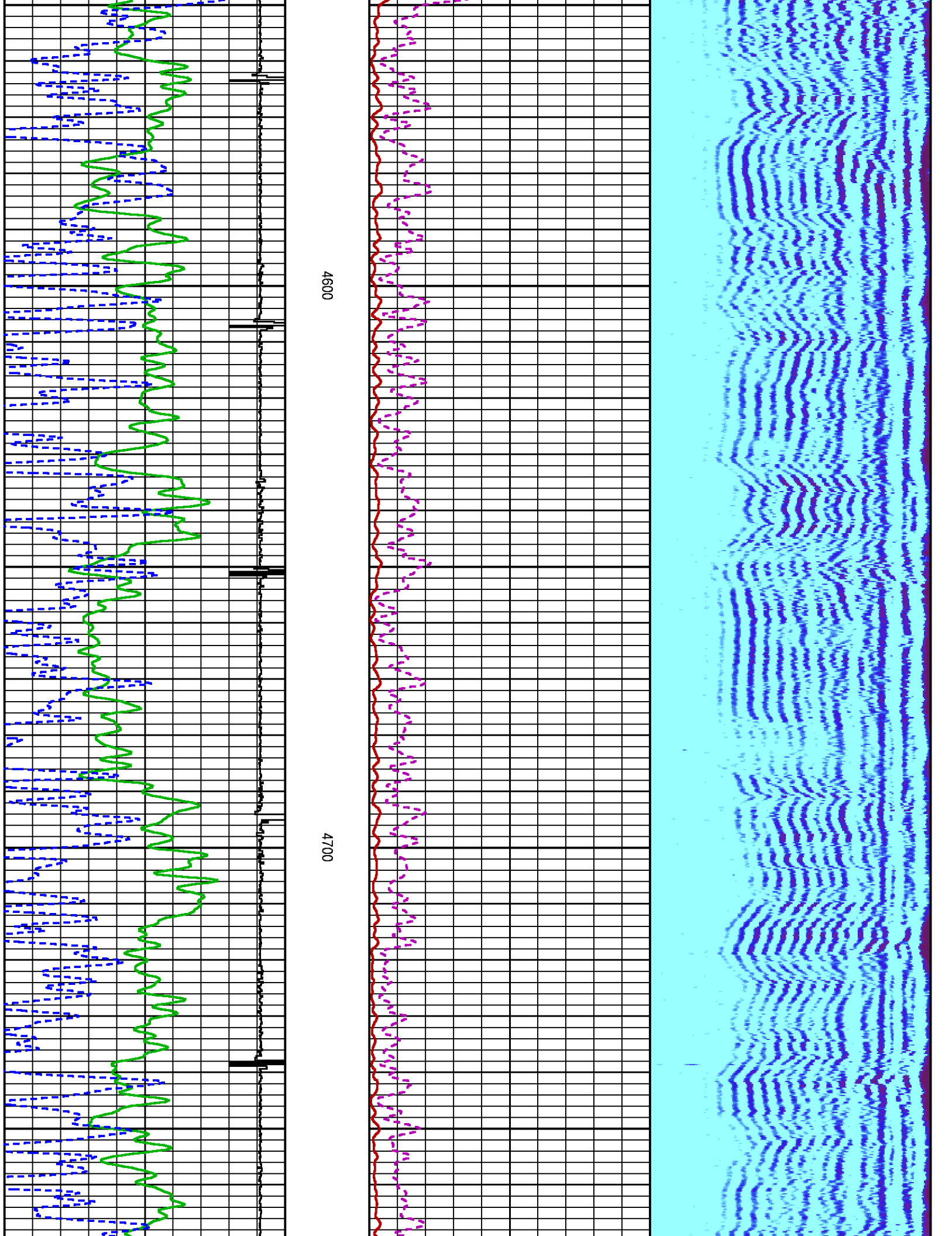
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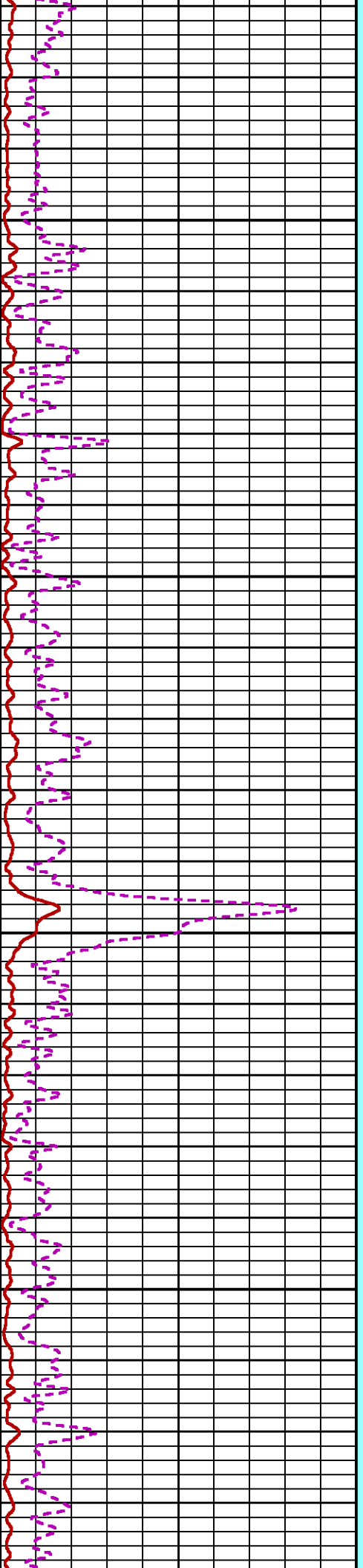
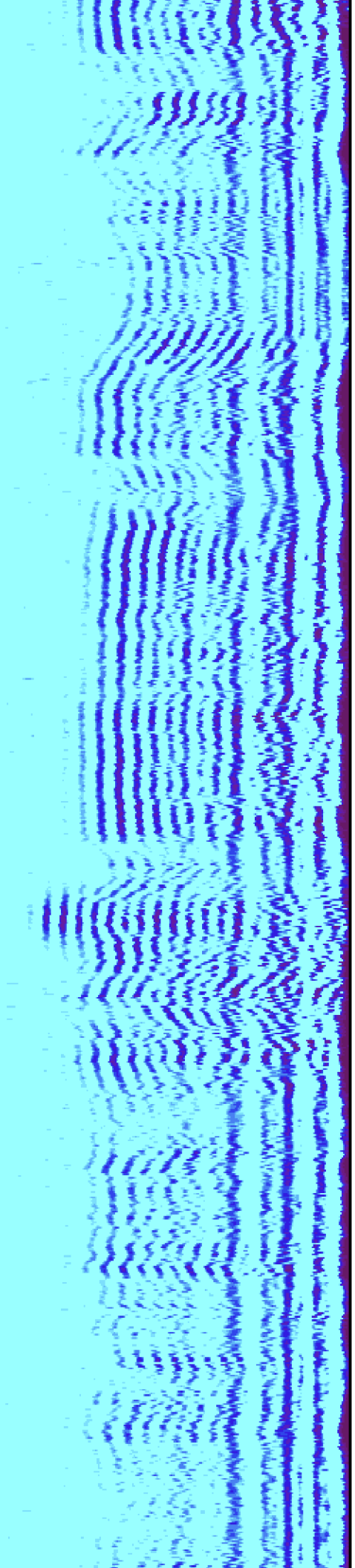
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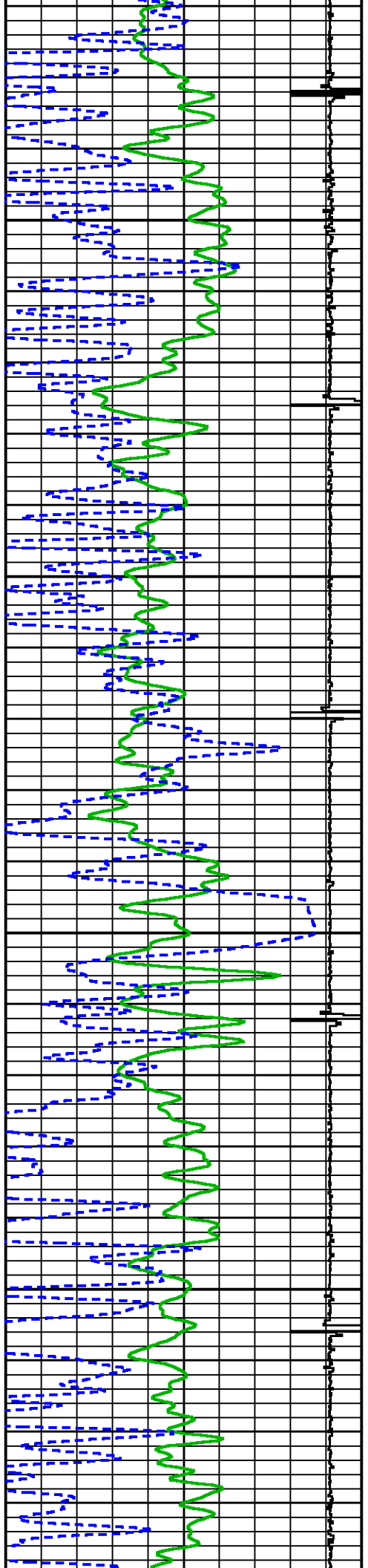




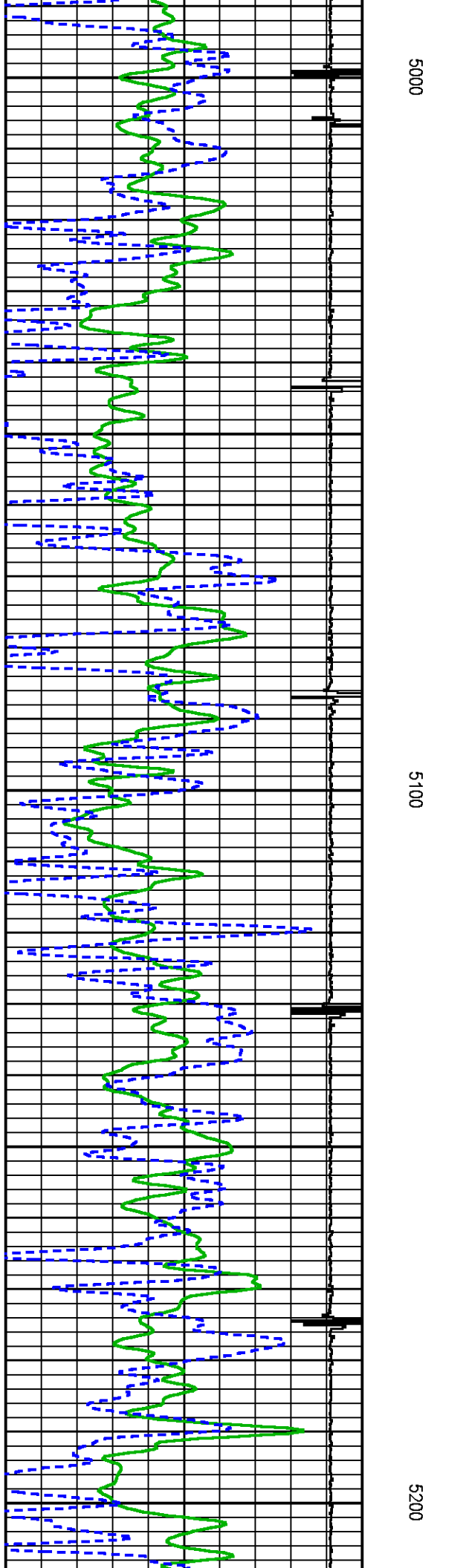
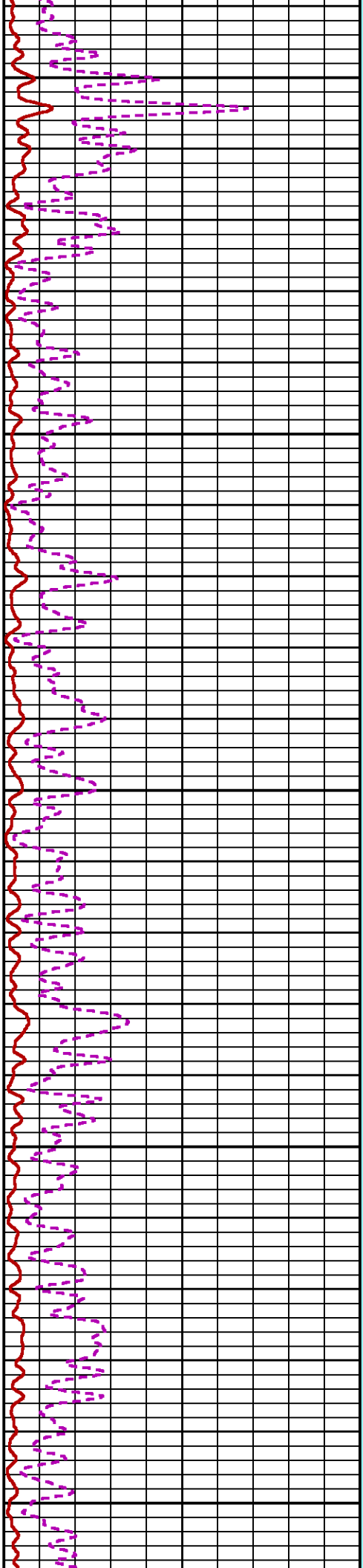
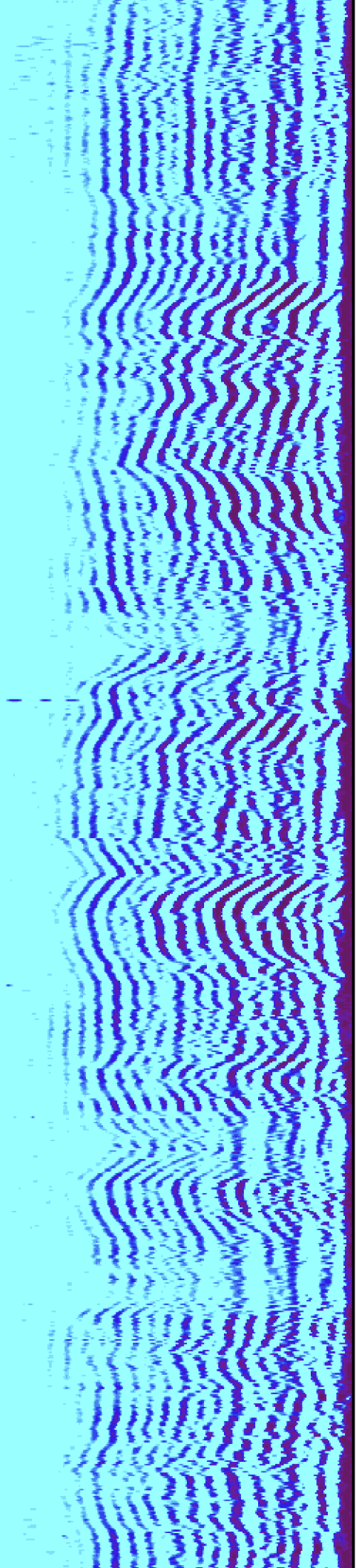


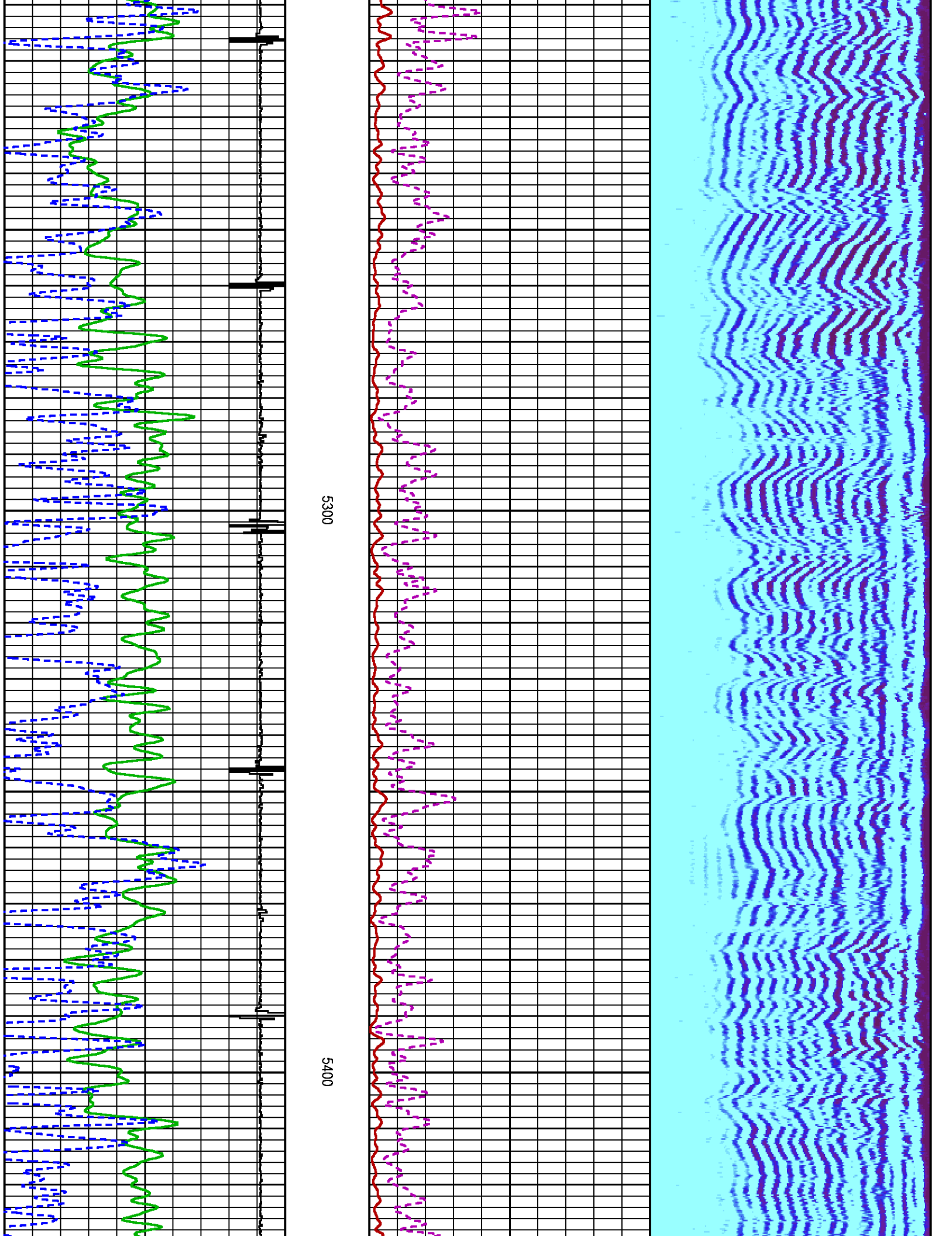
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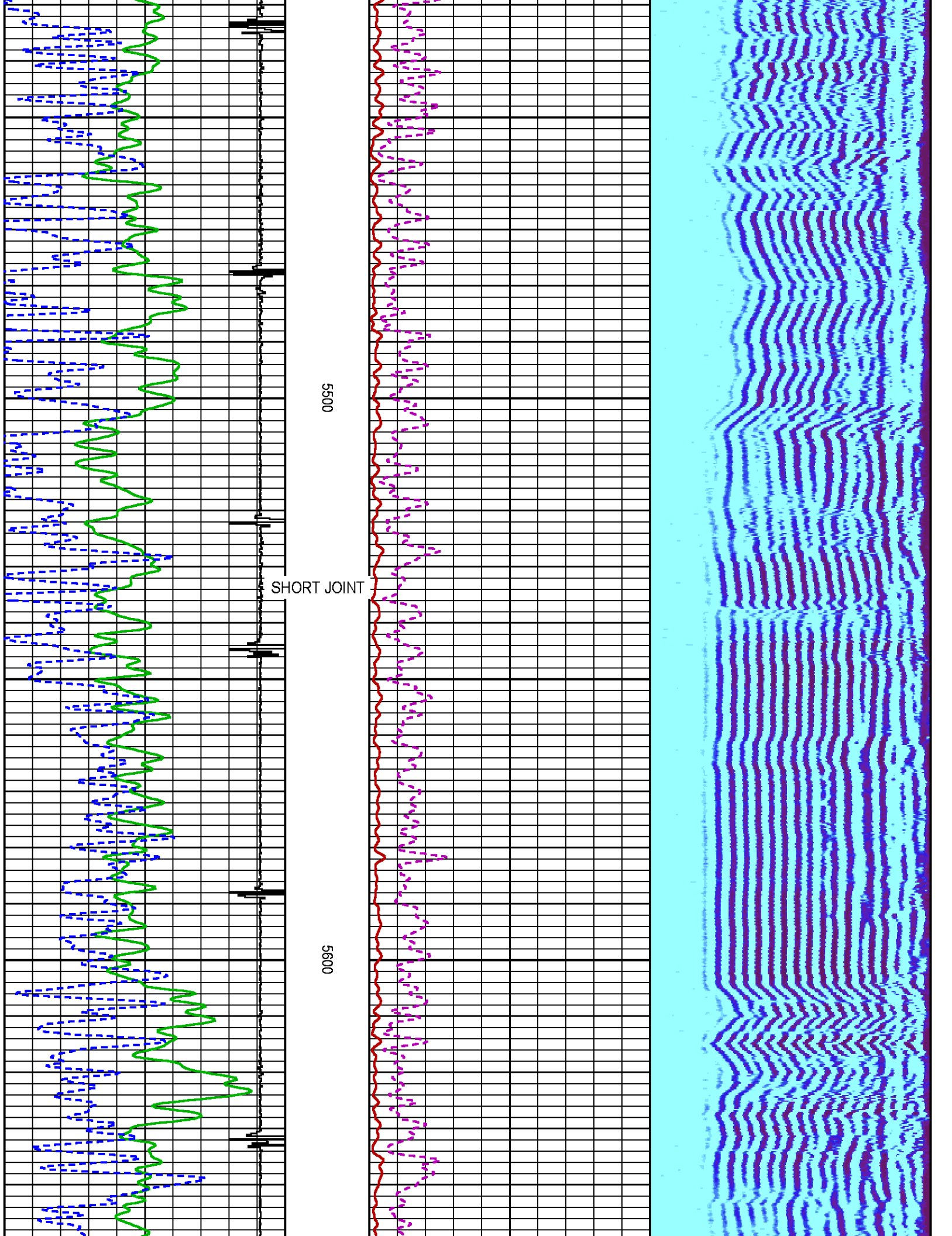
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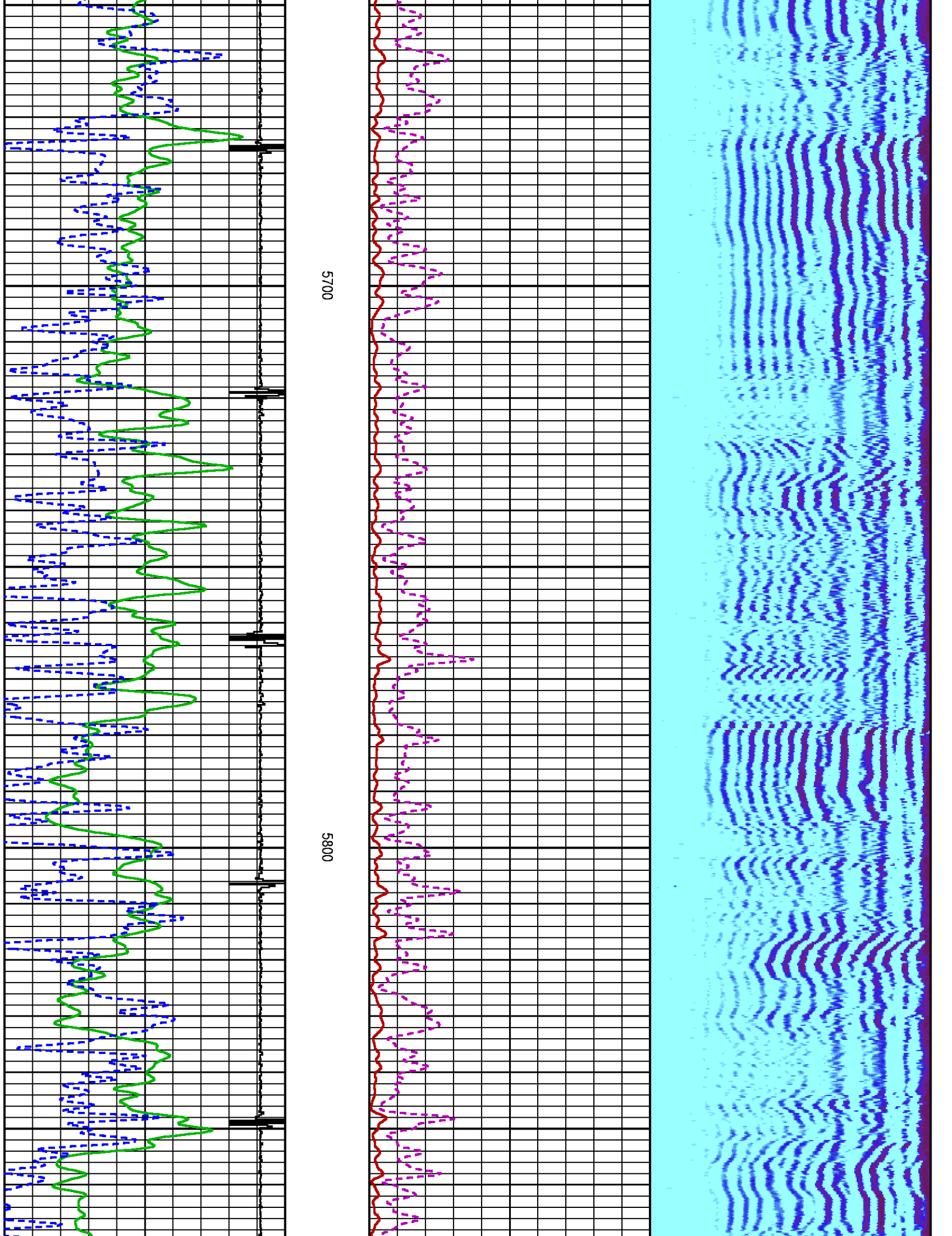




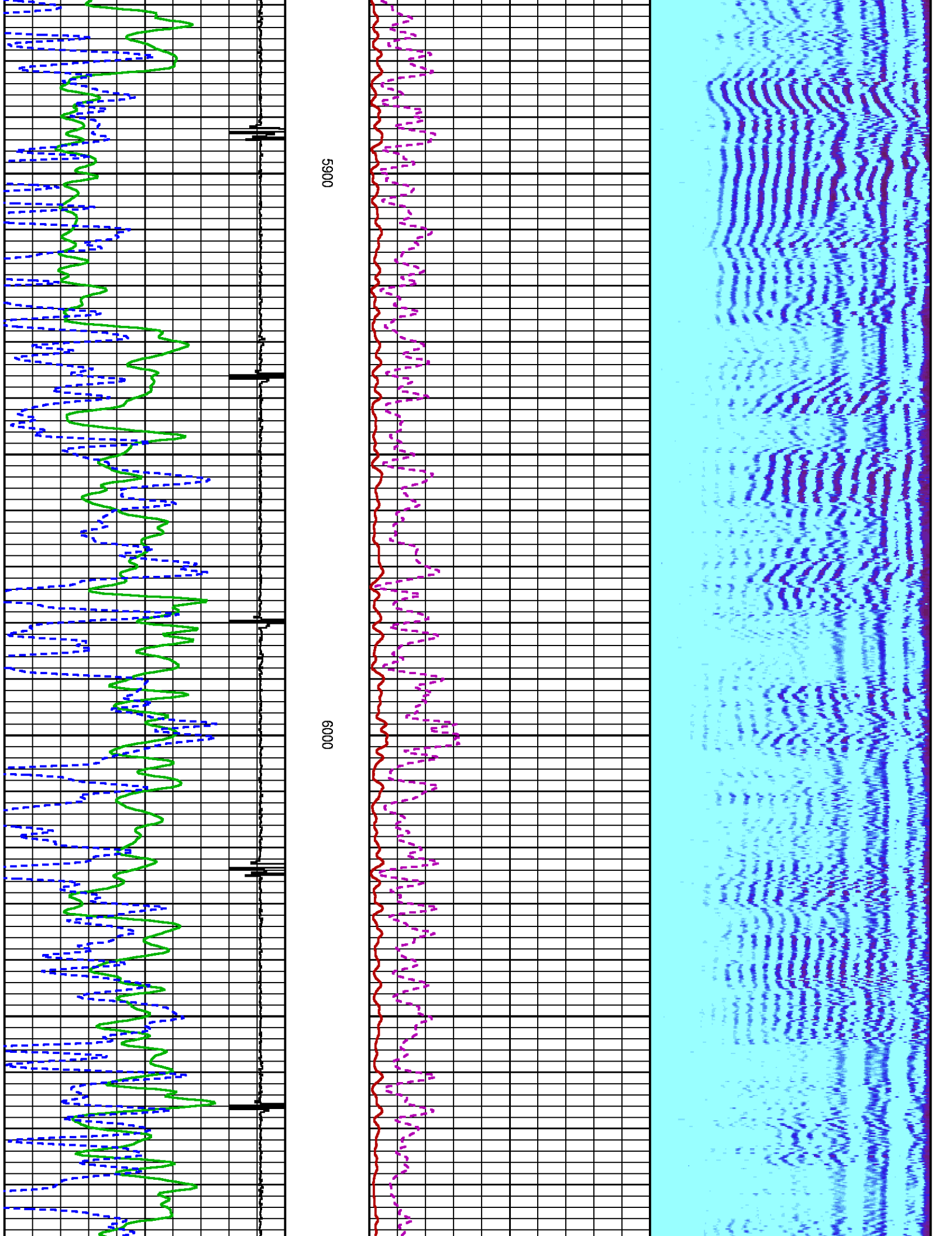


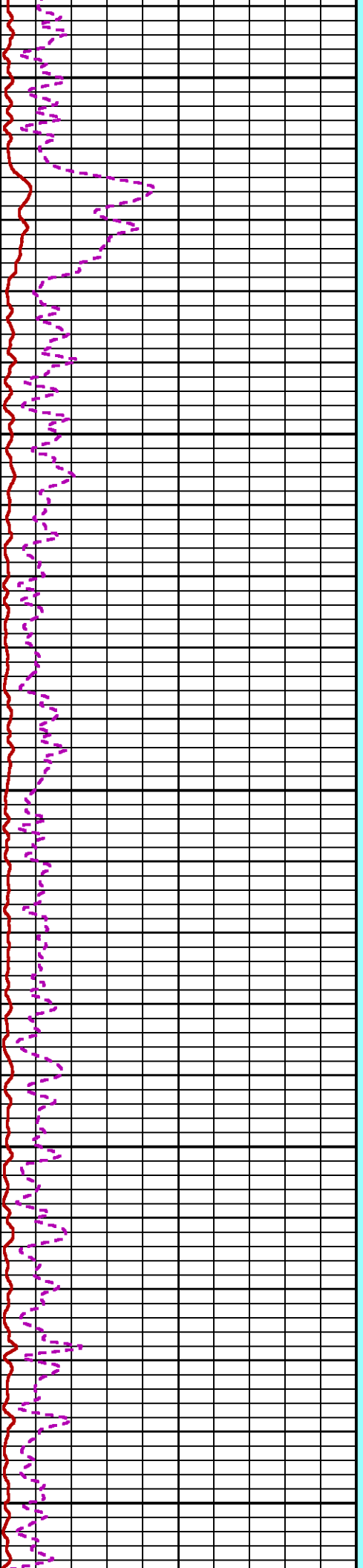
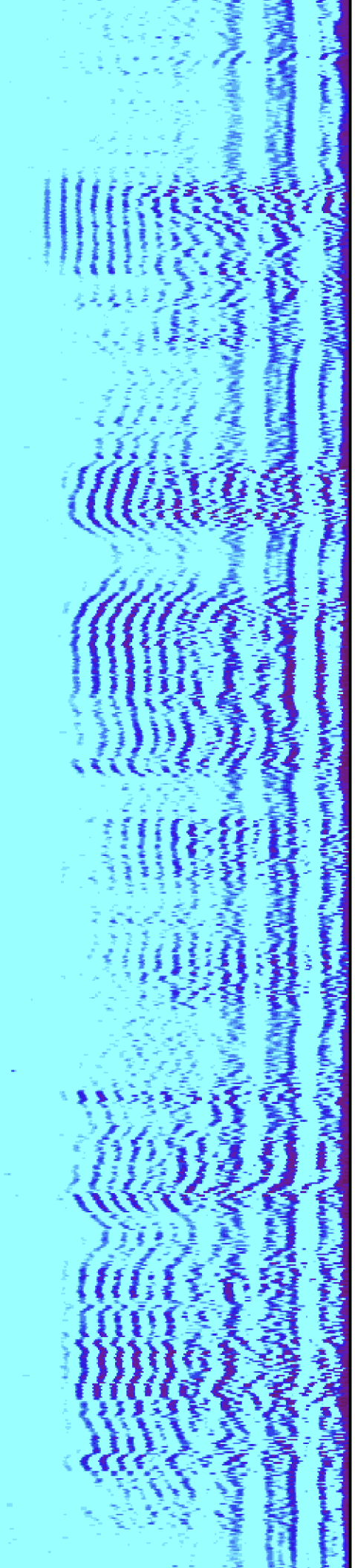








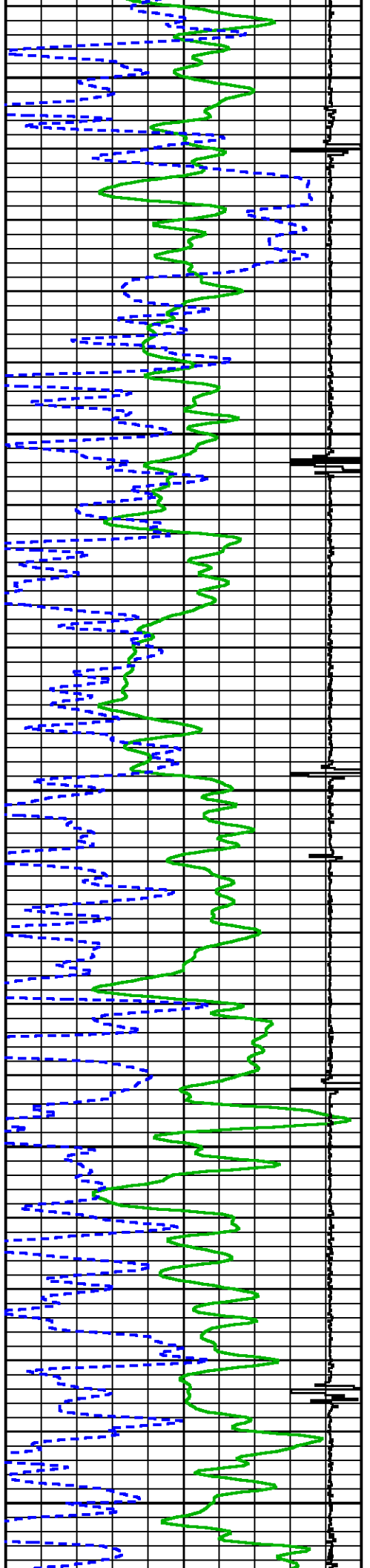


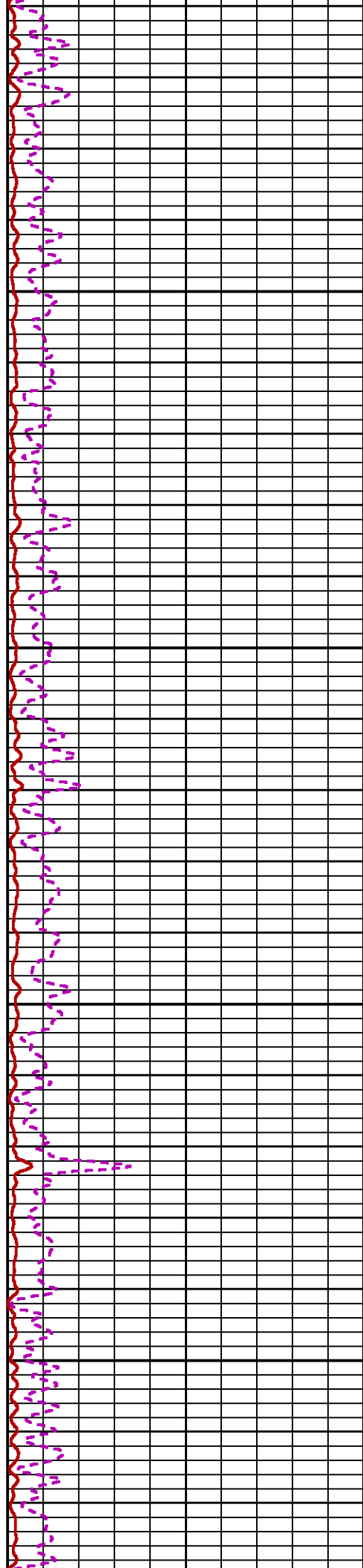
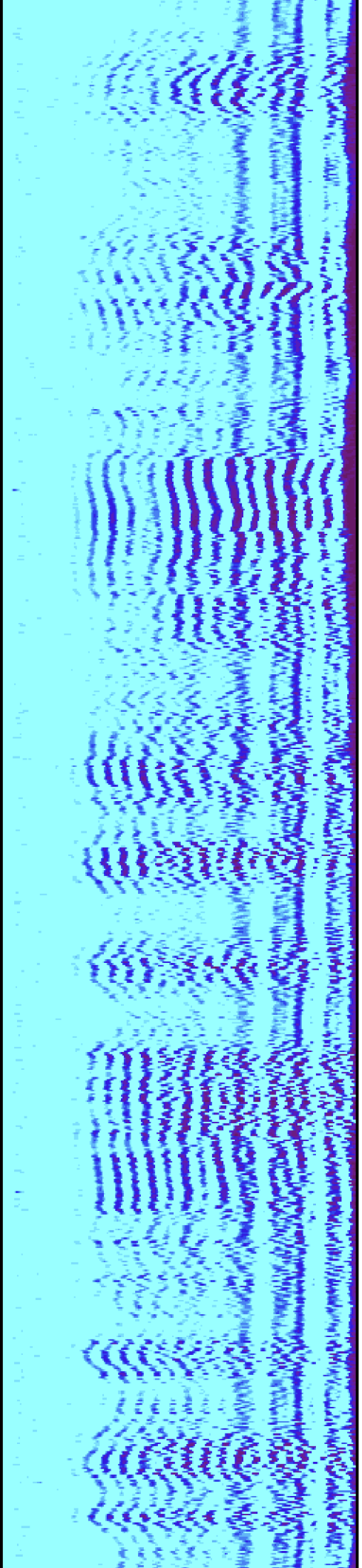


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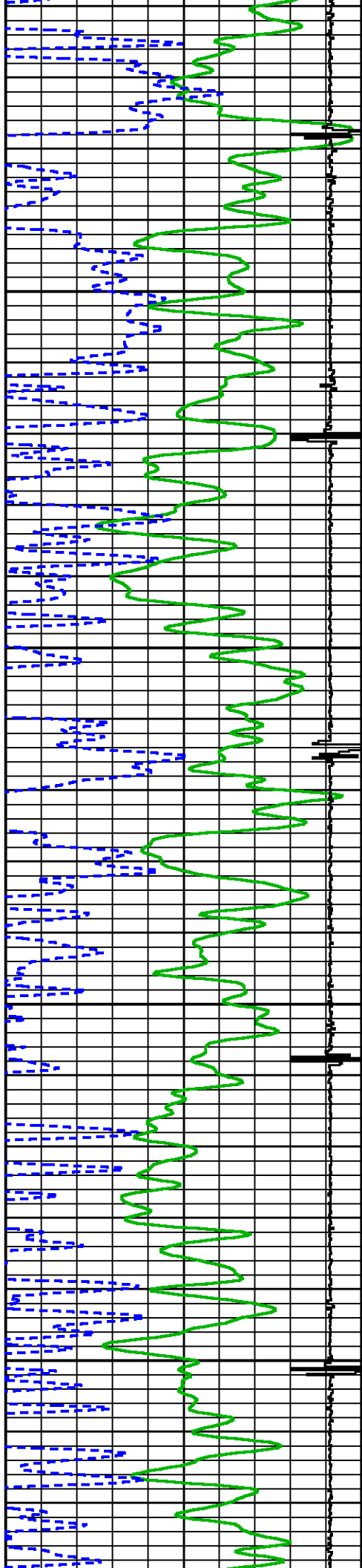
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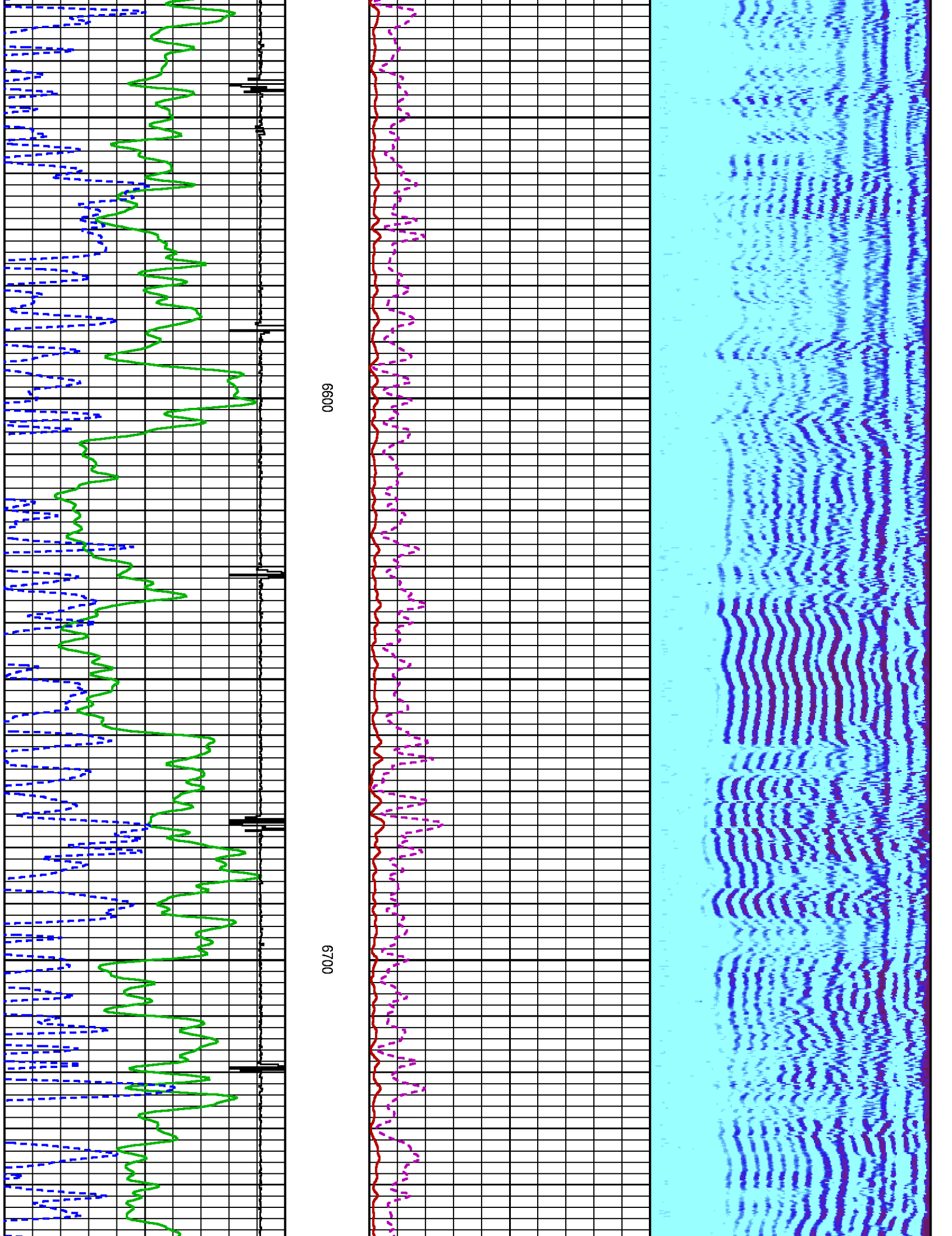


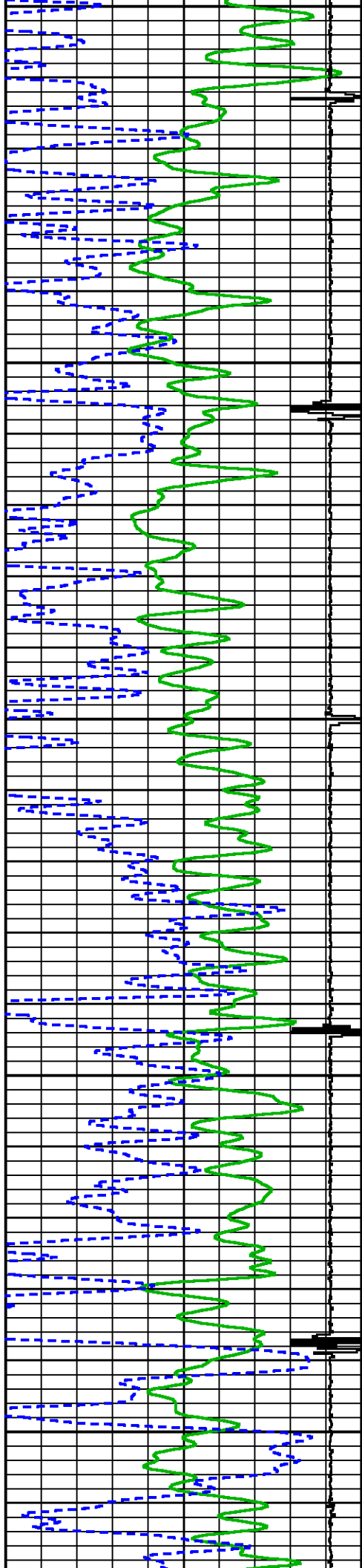
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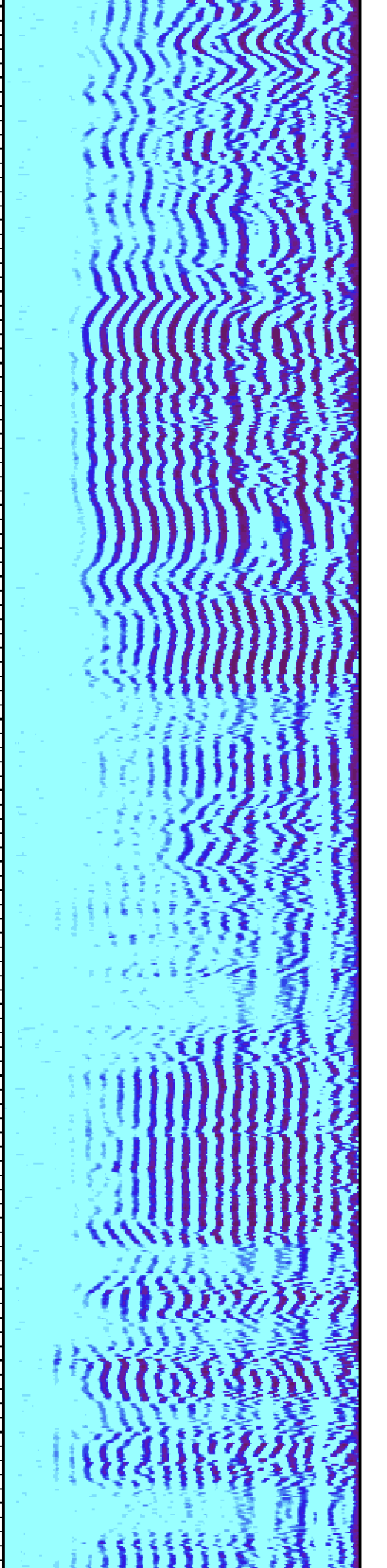
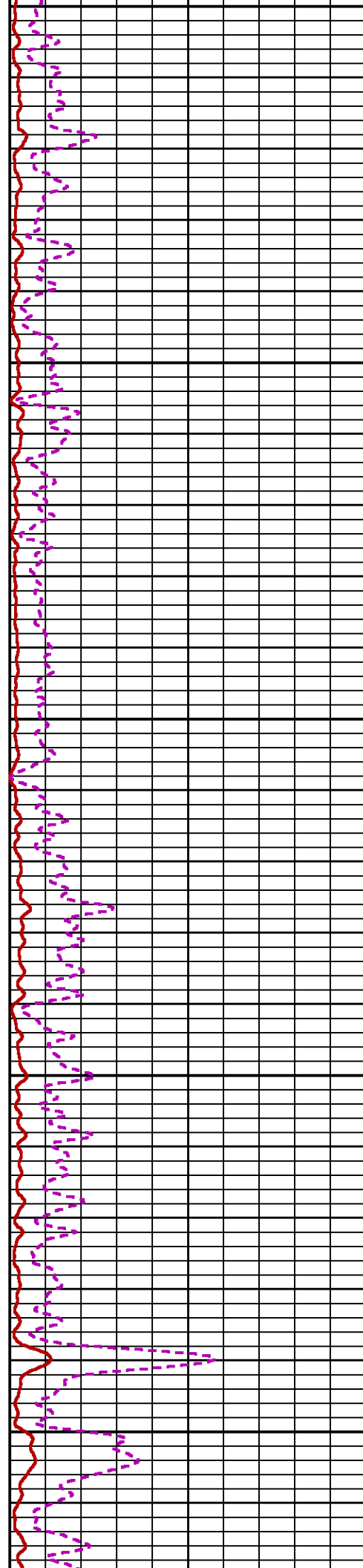


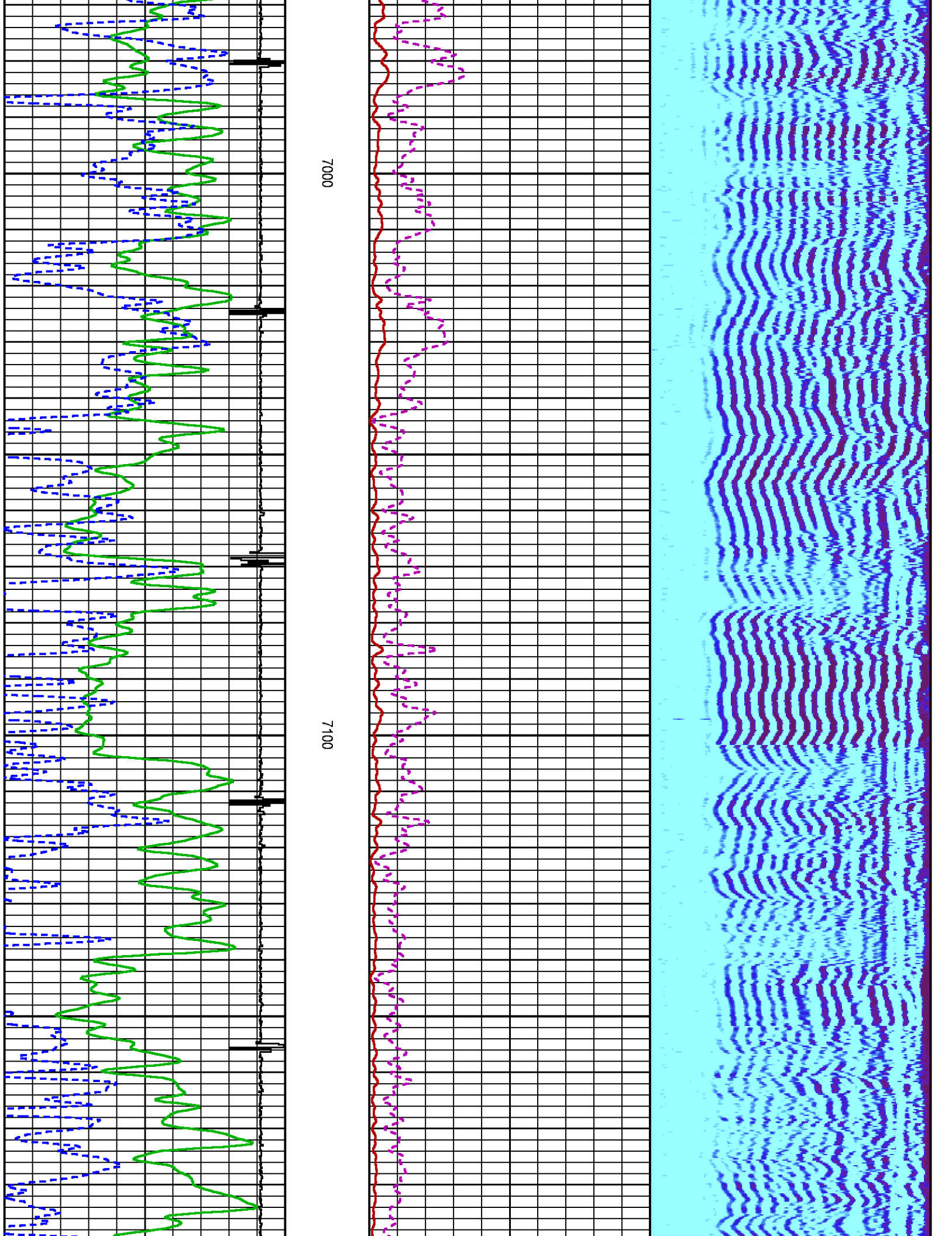


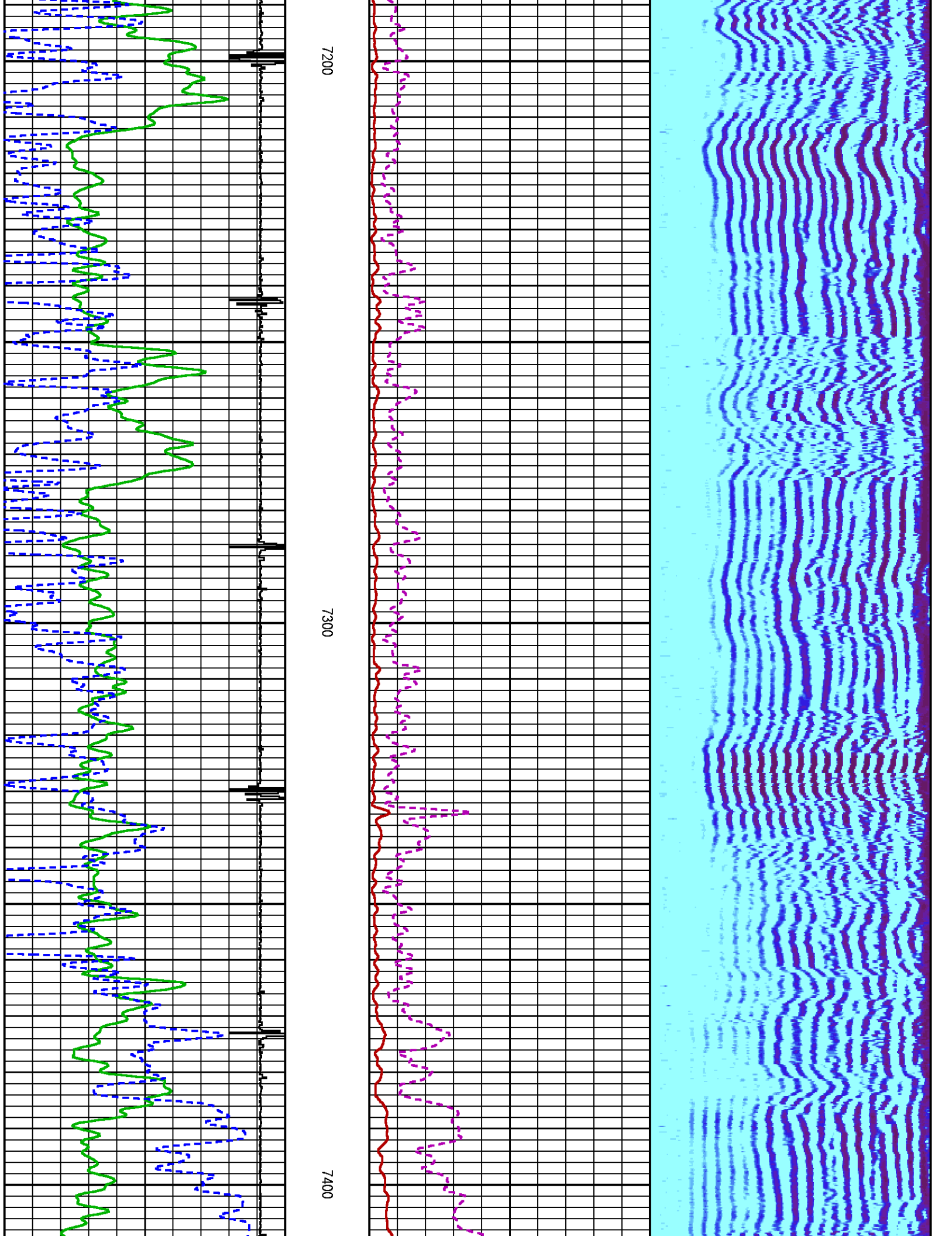


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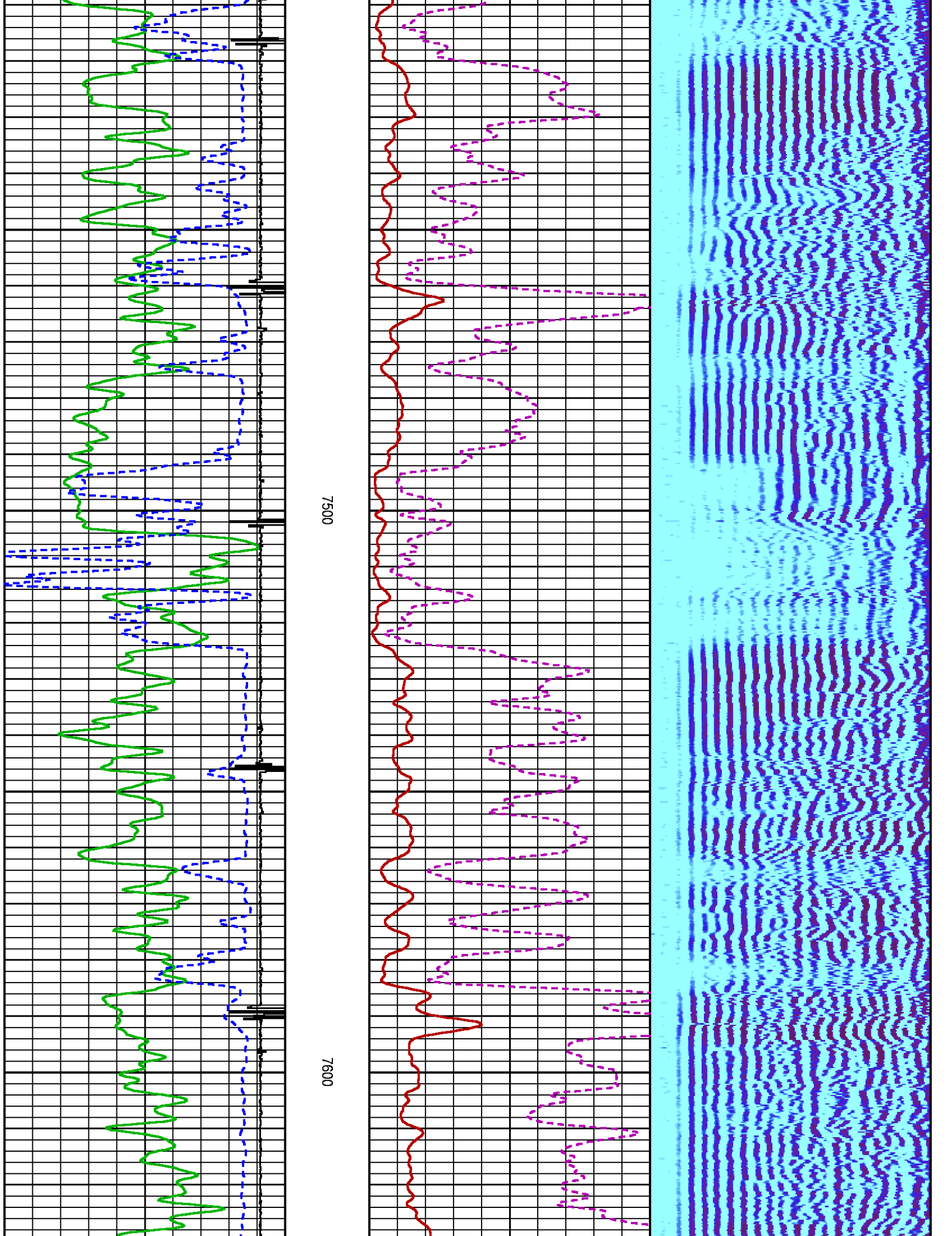
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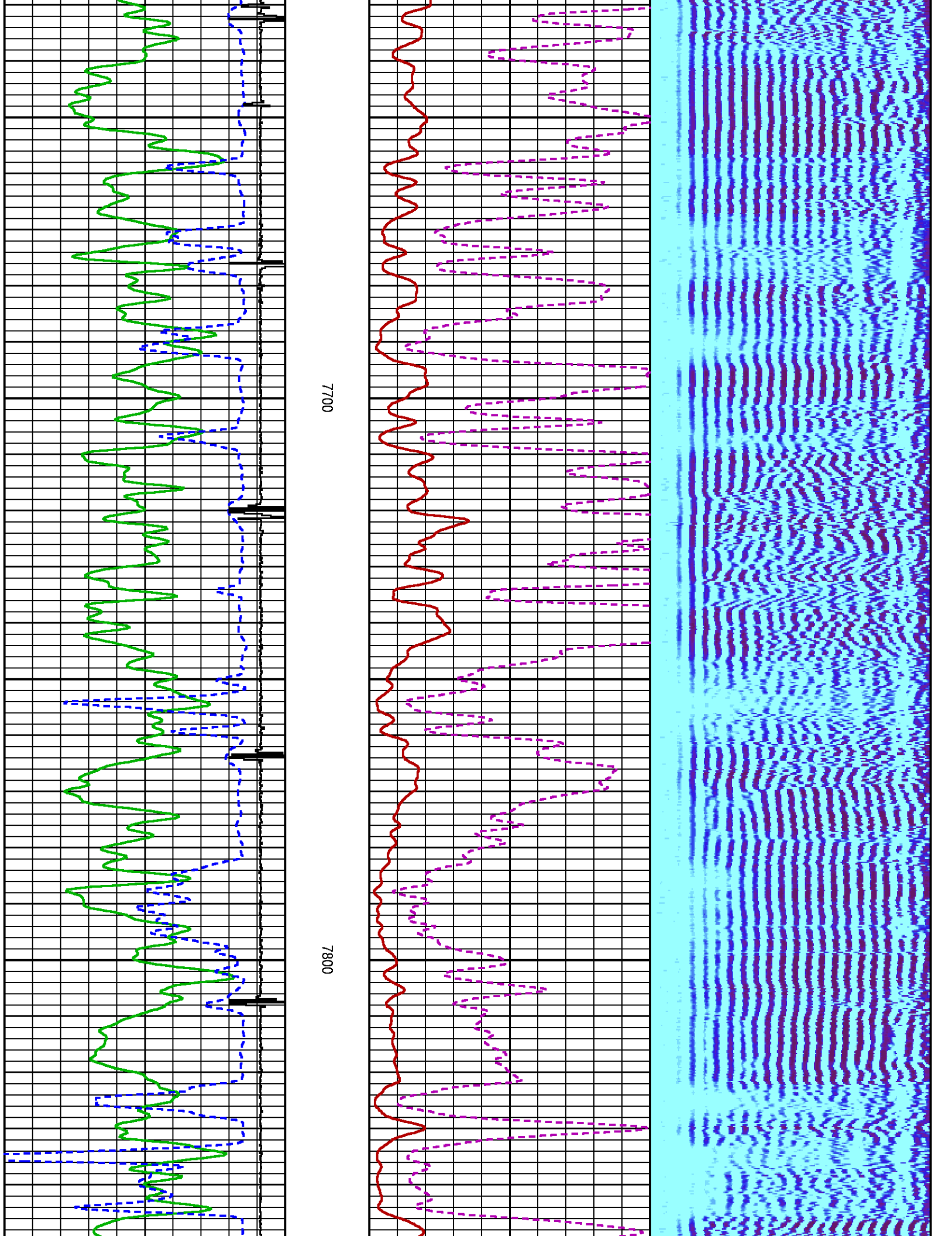


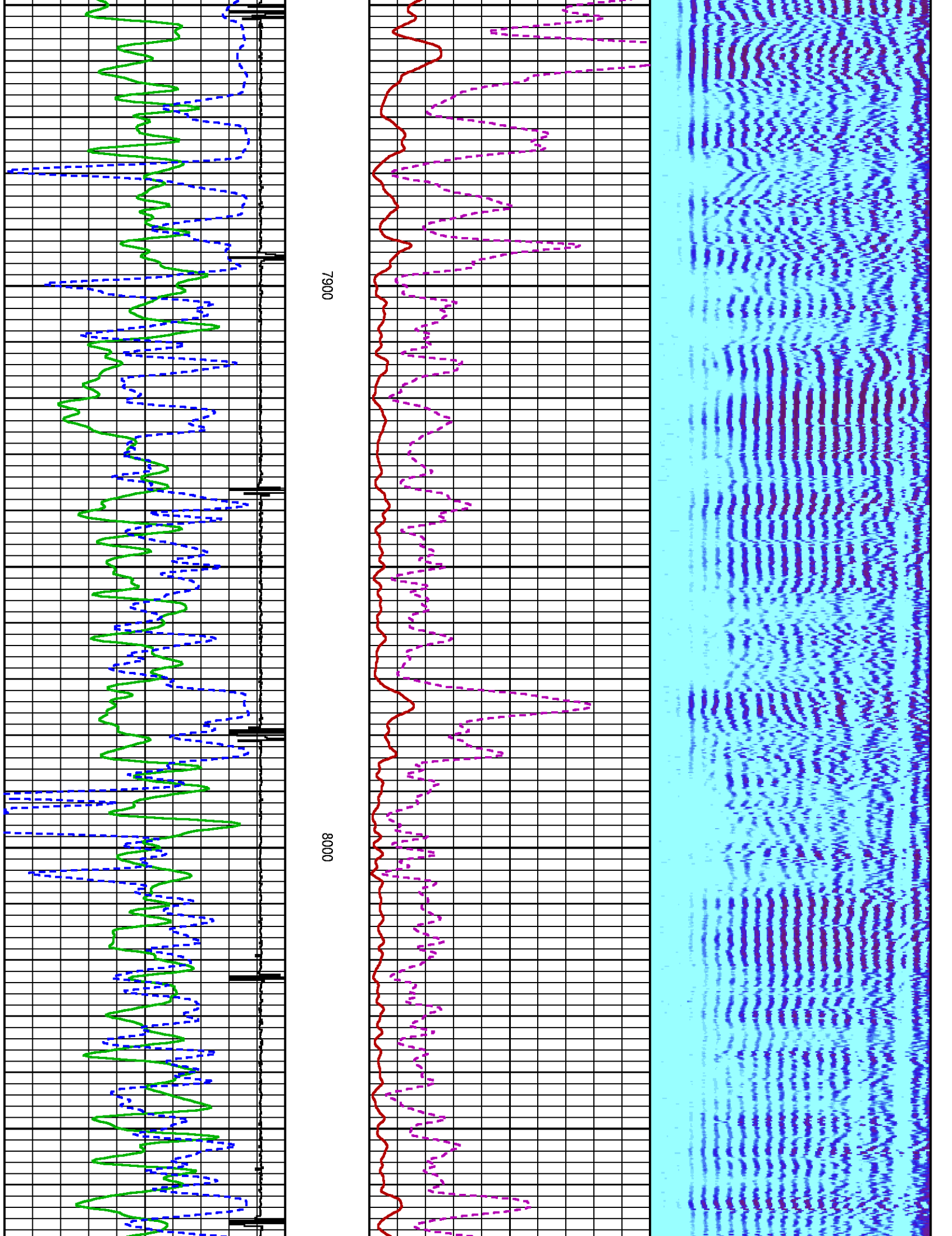




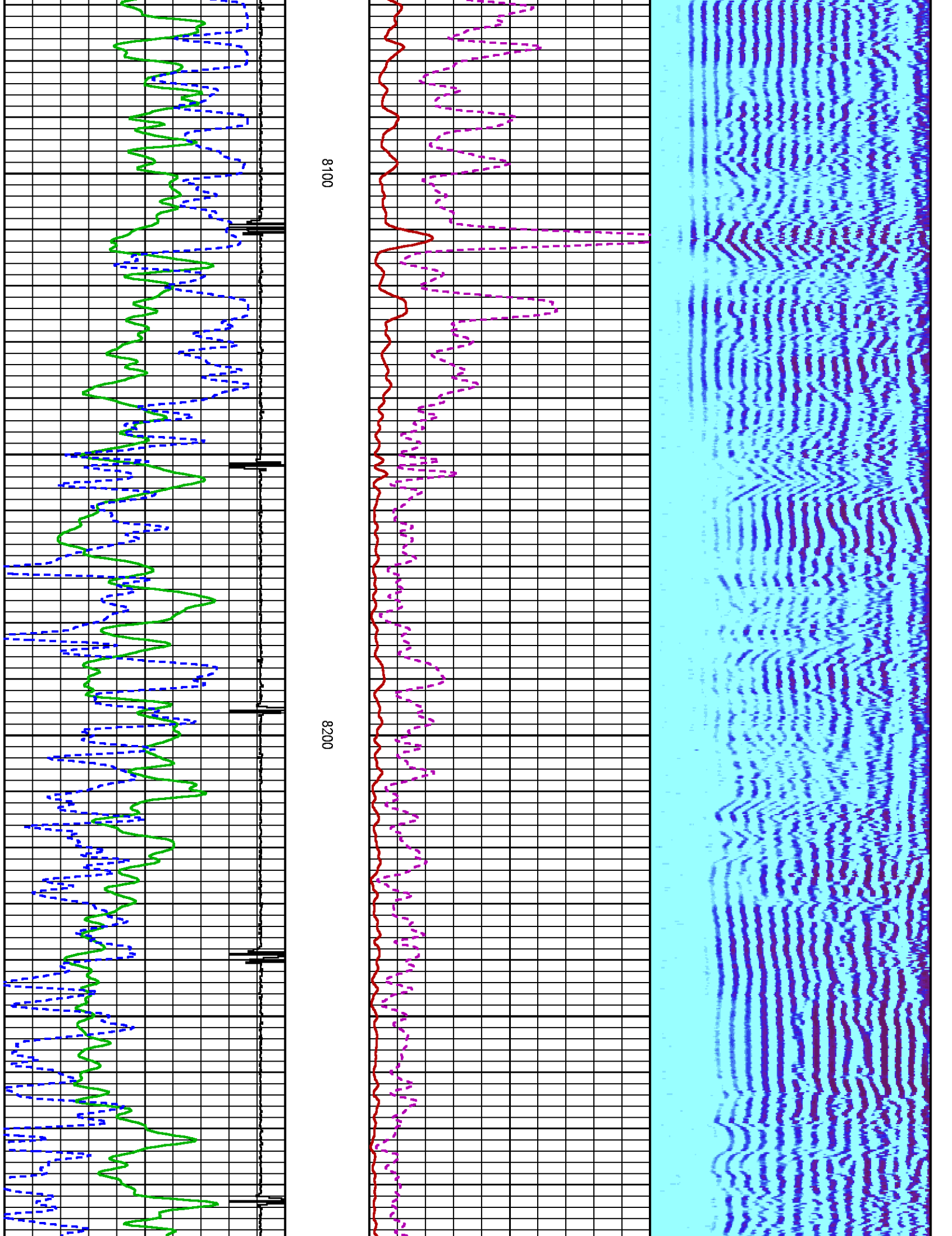




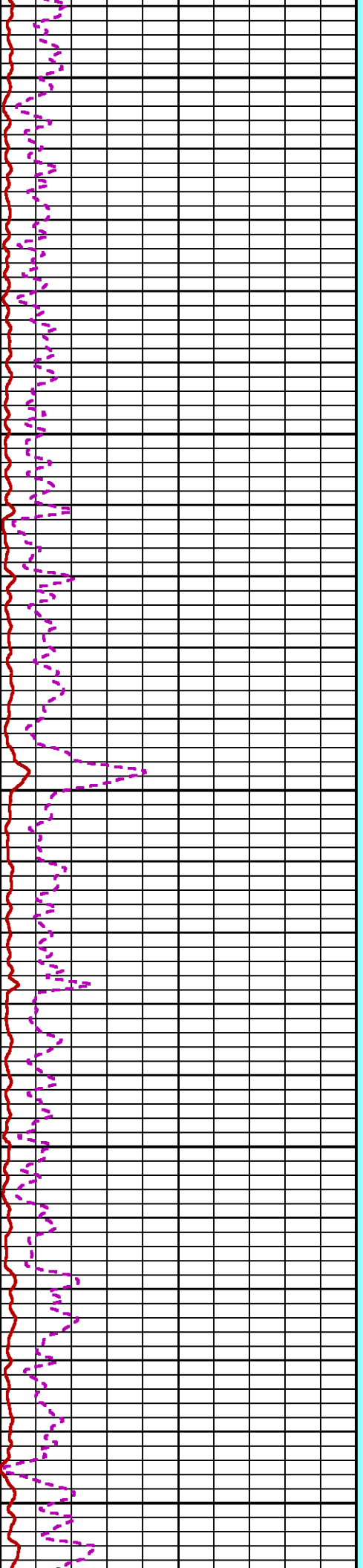
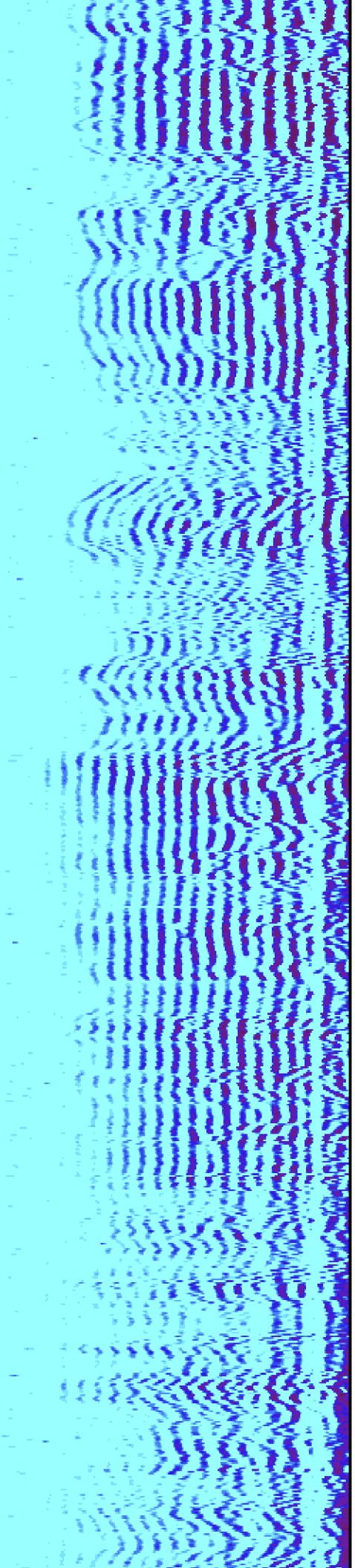








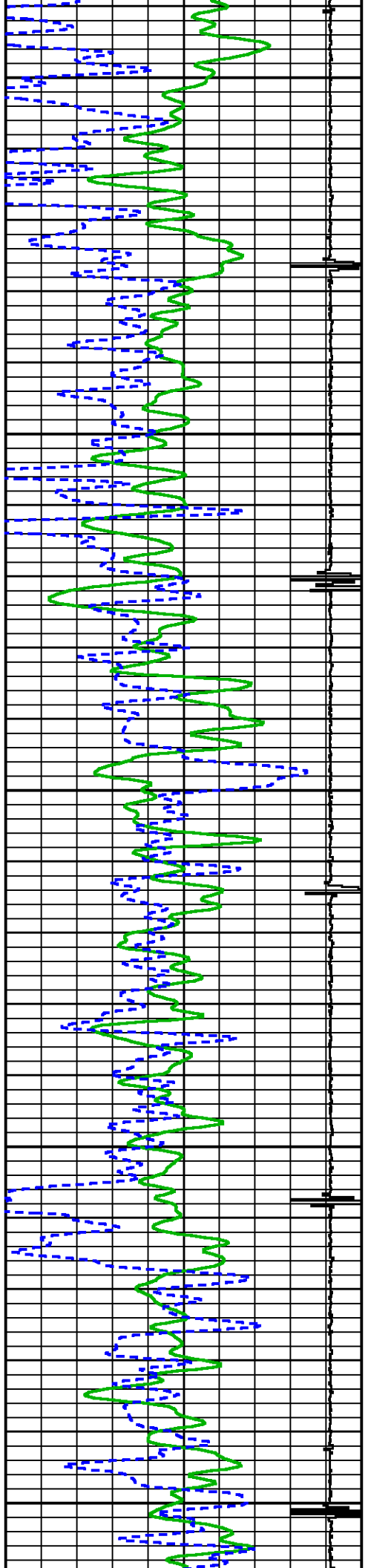


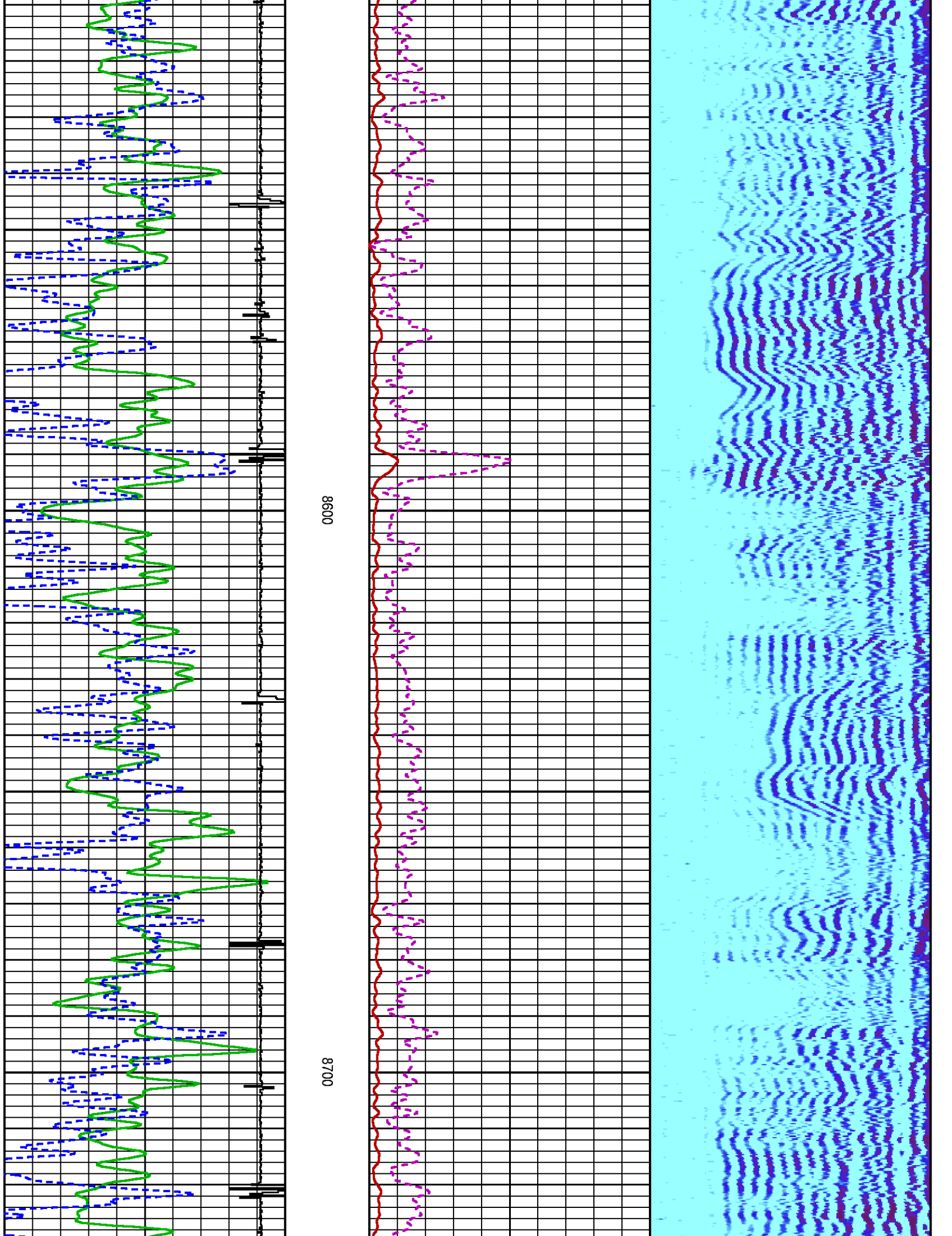


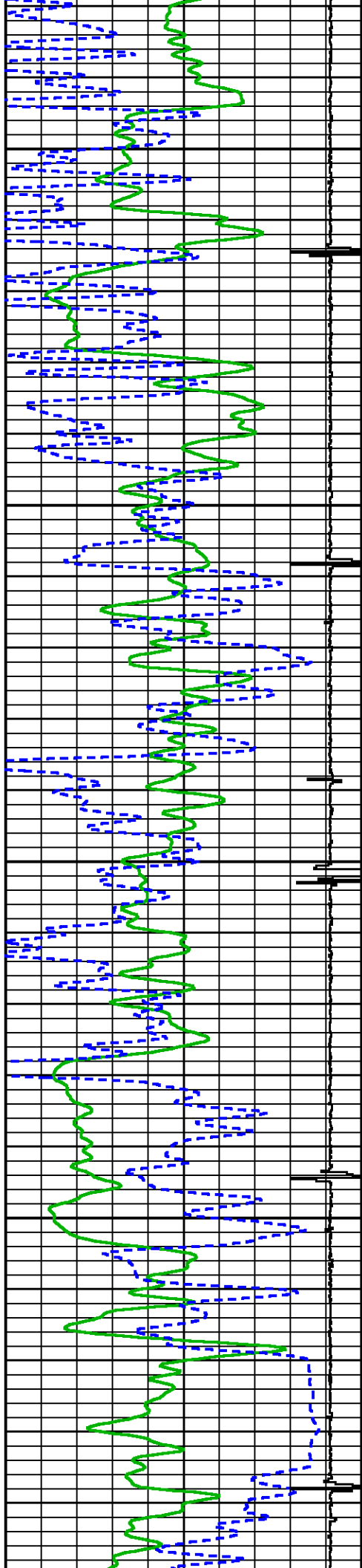
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8400

8500

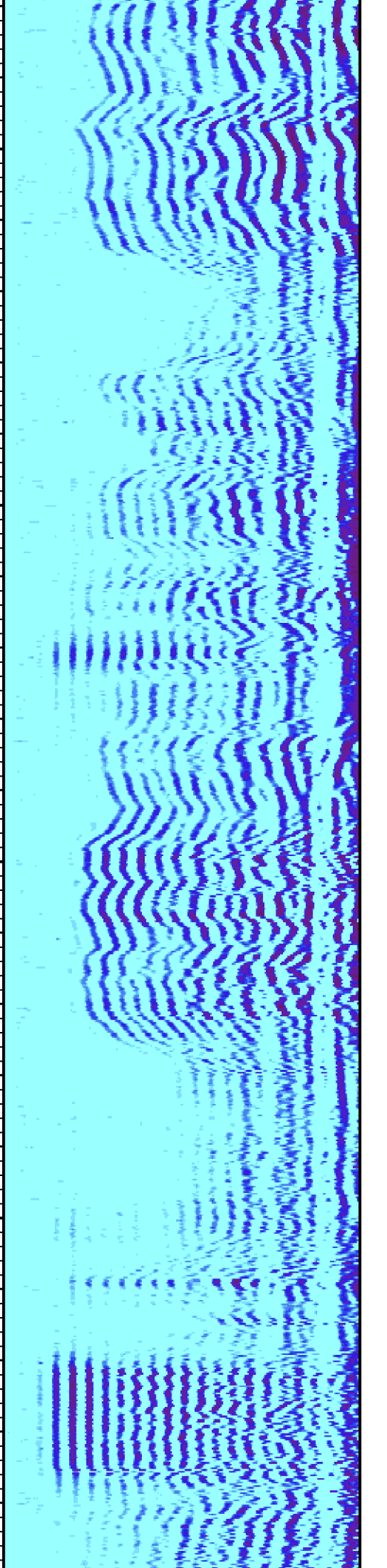
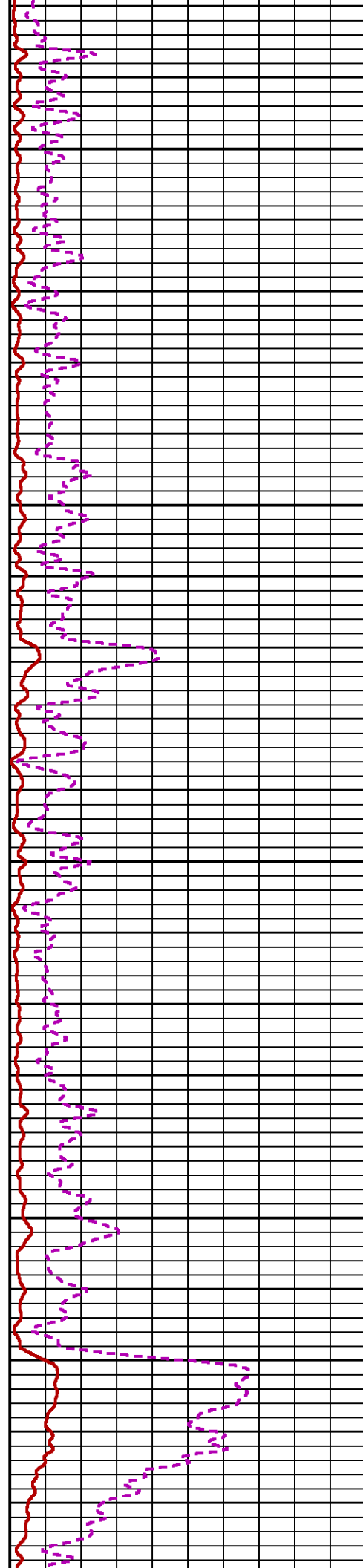


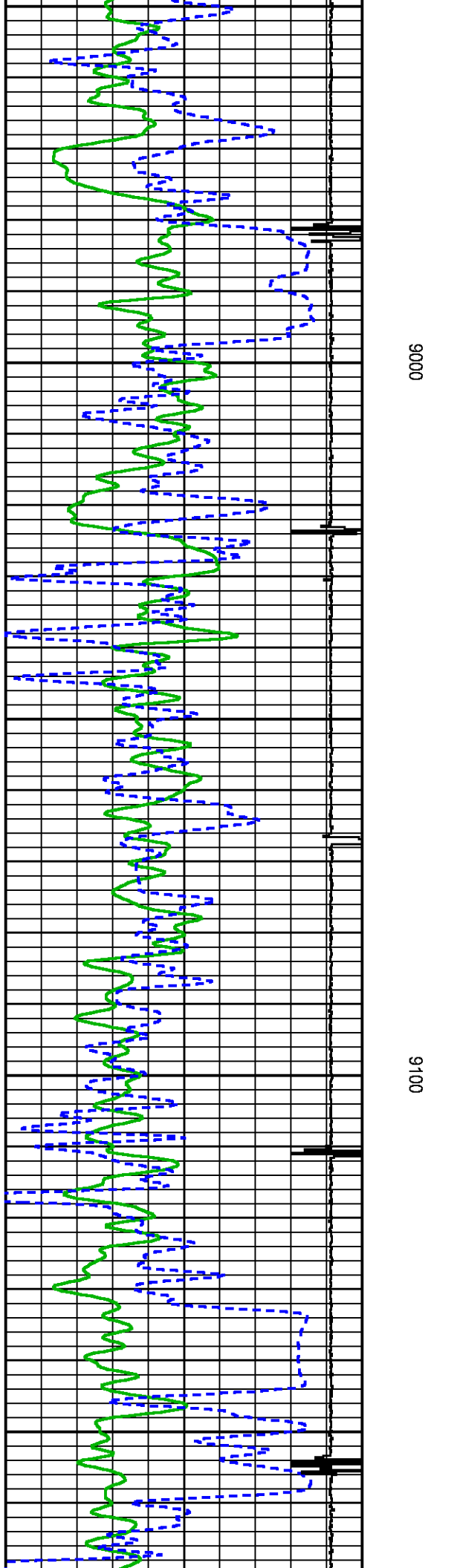
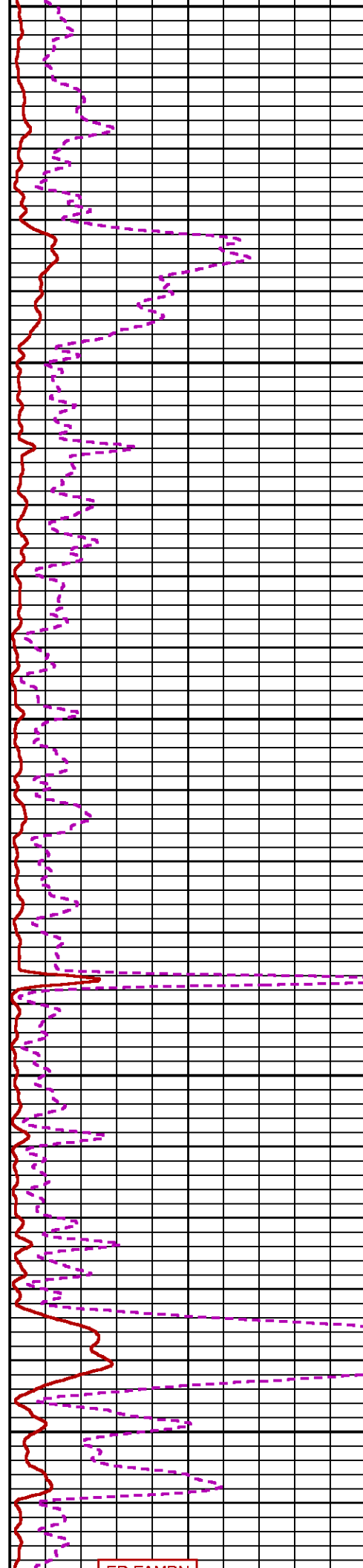
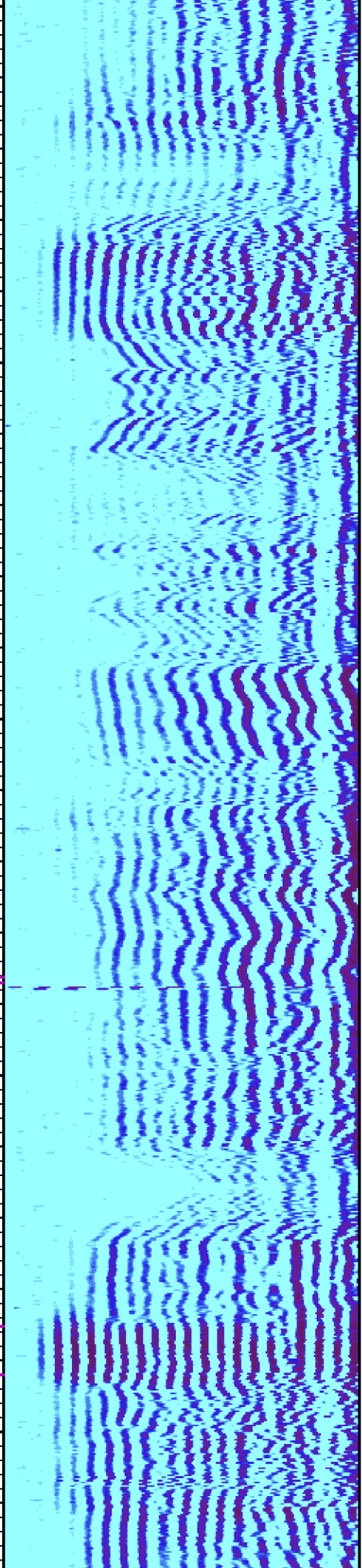




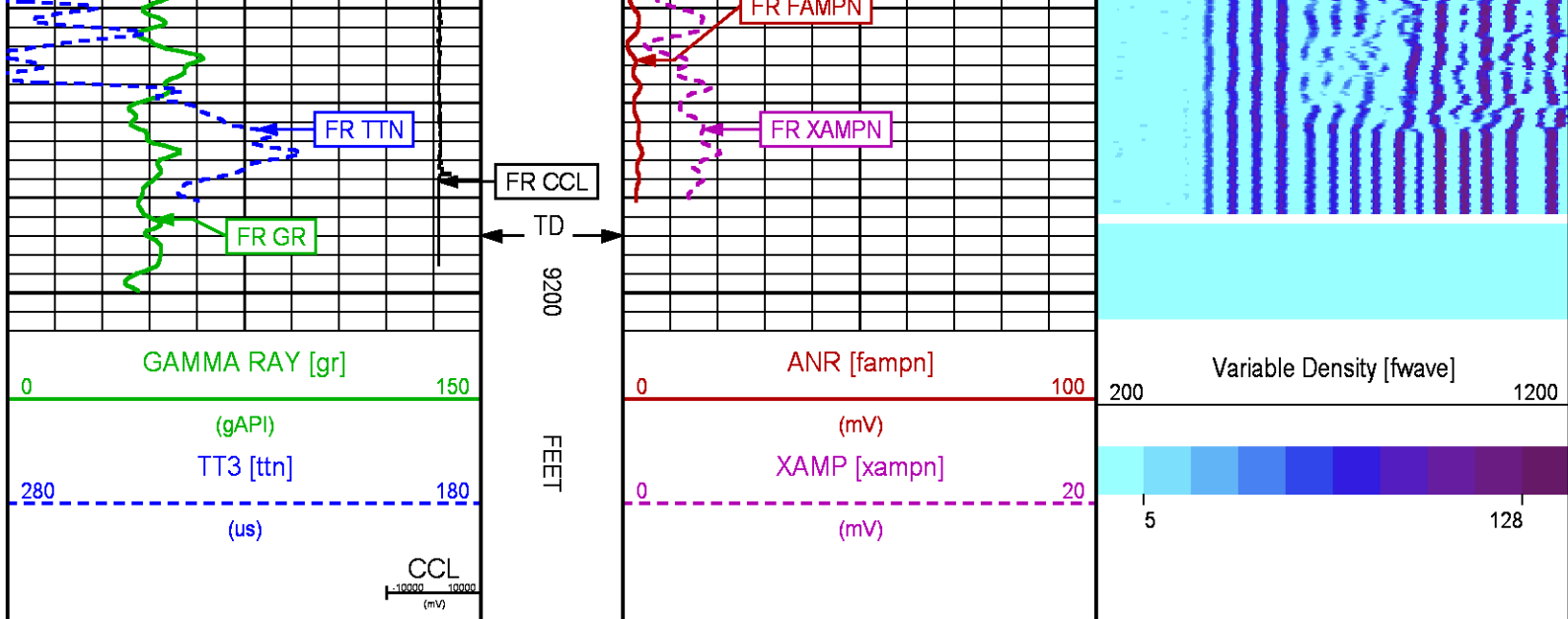
8900

0088









REPEAT LOG 0 PSI

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

Plotted: Sat Apr 16 13:13:18 2016

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH106693/n012g01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 8833.500 ft BOTTOM DEPTH: 9199.500 ft

### SYMMETRIC FILTER

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

### RAL CCL PROCESSING

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

### ANALOG RAL PROCESSING

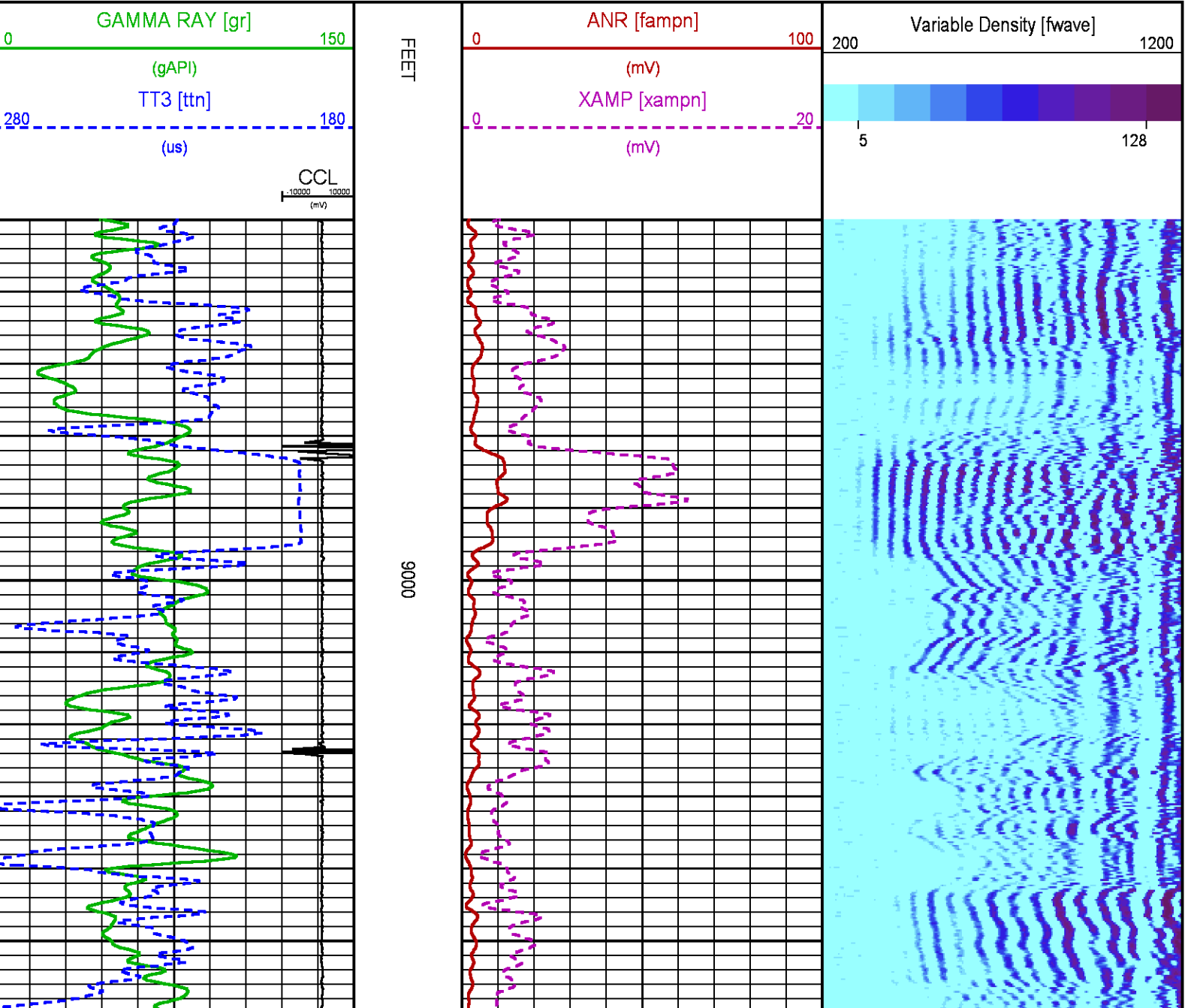
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	171	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-76	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

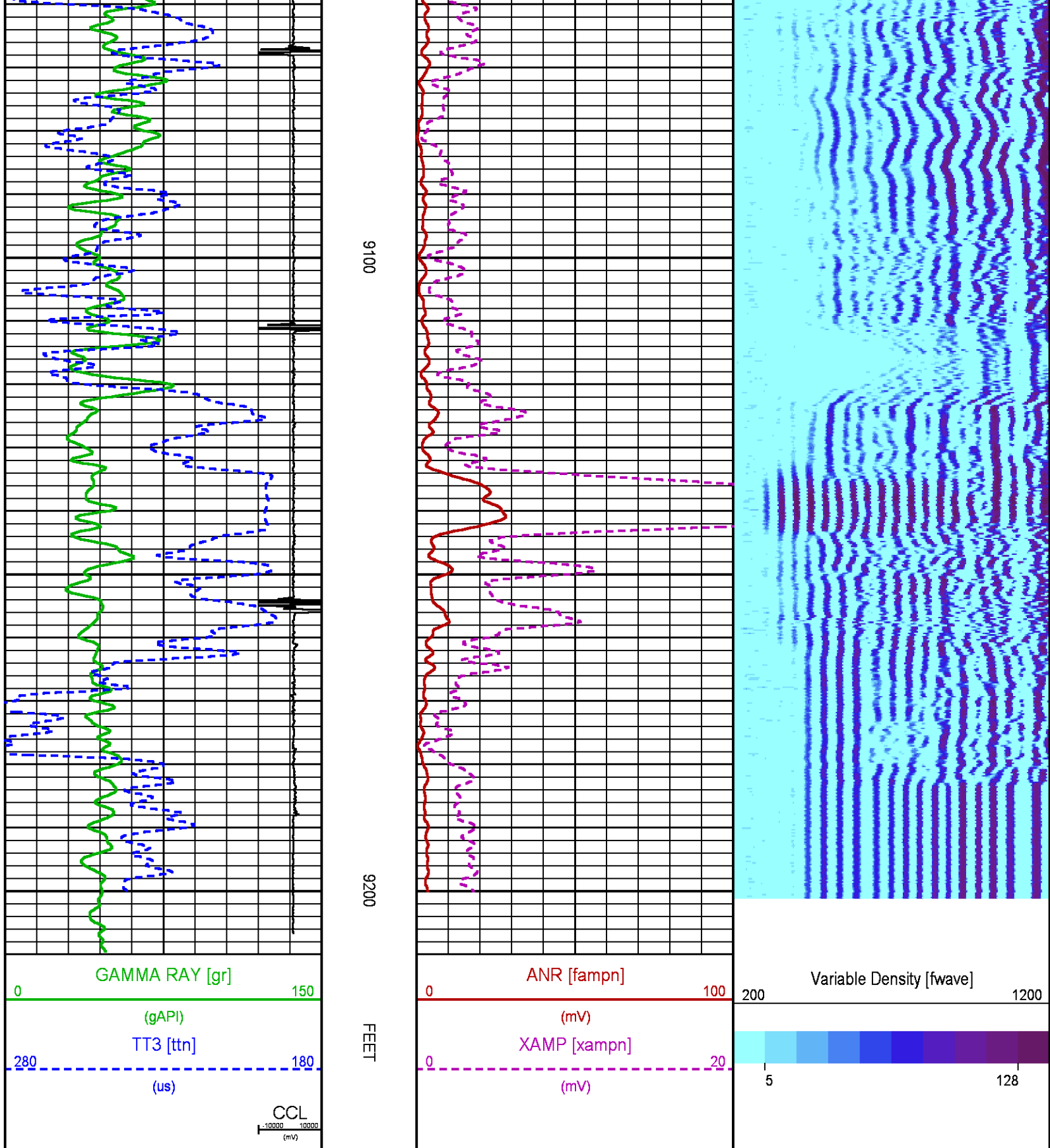
## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Apr 16 12:59:58 2016	CASING COLLAR LOCATOR
F1:FAMPN	Apr 16 12:59:58 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Apr 16 12:59:58 2016	FAR WAVE FORM
F1:GR	Apr 16 12:59:58 2016	GAMMA RAY
F1:TTN	Apr 16 12:59:58 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Apr 16 12:59:58 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	: cpu100:/dat1a/CH106693/413WPX_CBL_REPEAT_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval	: 8950 - 9211 Feet
Data File 1	: F1 : cpu100:/dat1a/CH106693/n012g01REPEAT413.xtf
Created On	: Apr 16 12:59:58 2016
Company	: WPX ENERGY
Well	: FEDERAL RU 413-6
Field	: RULISON
File Interval	: 8835.25 - 9212.5 Feet
OCT	: n012g





## SECONDARY PRESENTATION 0 PSI

Plotted: Sun Apr 17 07:52:30 2016

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH106693/n012g05.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 26.250 ft BOTTOM DEPTH: 2198.000 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 (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*)	171	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-76	us	"	"
	TOOL DELAY (str2*)	-76	us	"	"
	TOOL DELAY (str3*)	-76	us	"	"
	TOOL DELAY (str4*)	-76	us	"	"
	TOOL DELAY (str5*)	-76	us	"	"
	TOOL DELAY (str6*)	-76	us	"	"
	TOOL DELAY (str7*)	-76	us	"	"
	TOOL DELAY (str8*)	-76	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-76	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	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

### CURVE DESCRIPTION REPORT

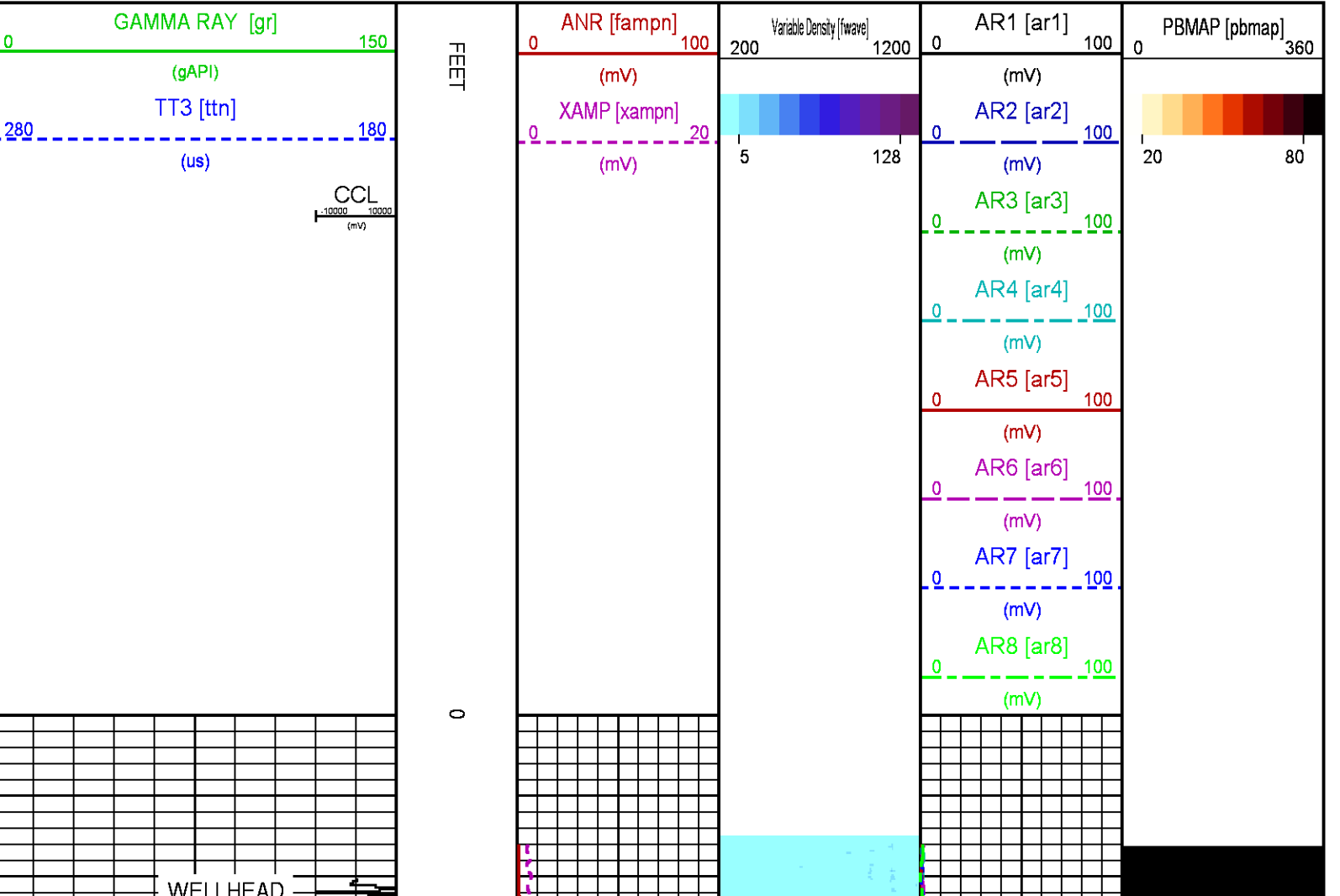


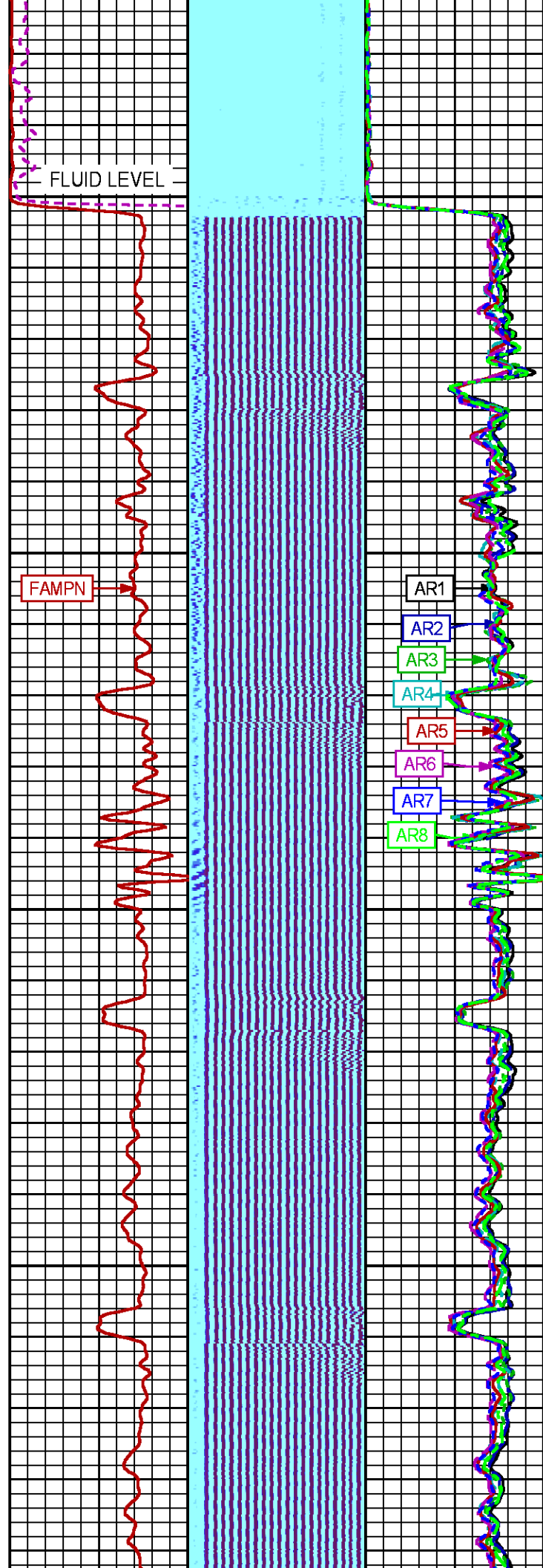
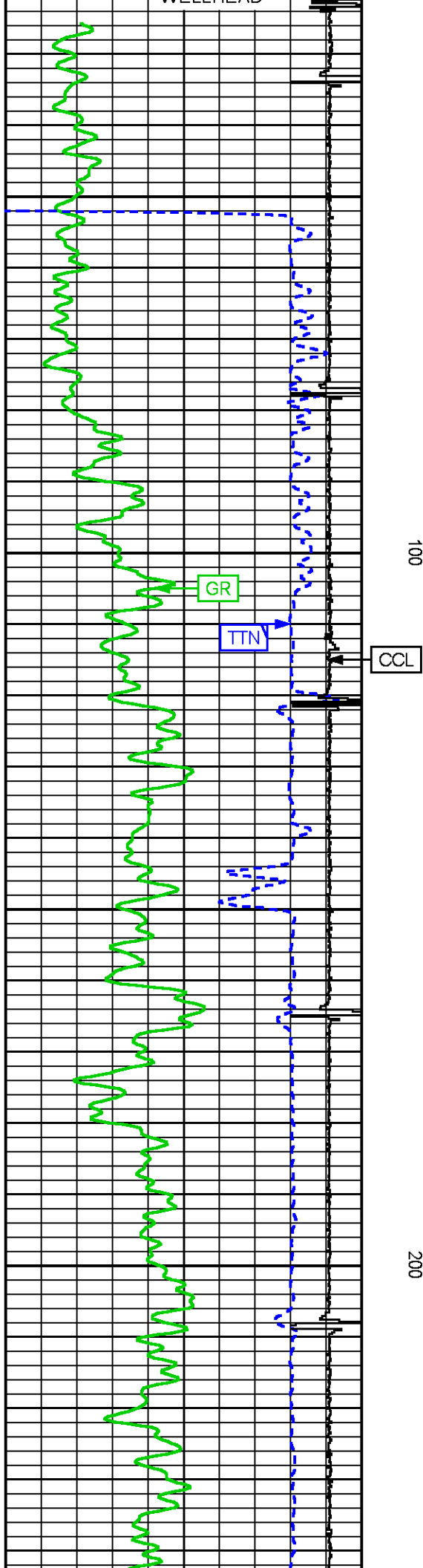
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Apr 16 14:56:17 2016	CASING COLLAR LOCATOR
F1:FAMPN	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Apr 16 14:56:17 2016	FAR WAVE FORM
F1:GR	Apr 16 14:56:17 2016	GAMMA RAY
F1:PBMAP	Apr 16 14:56:17 2016	PERCENT BOND CEMENT MAP
F1:TTN	Apr 16 14:56:17 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Apr 16 14:56:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

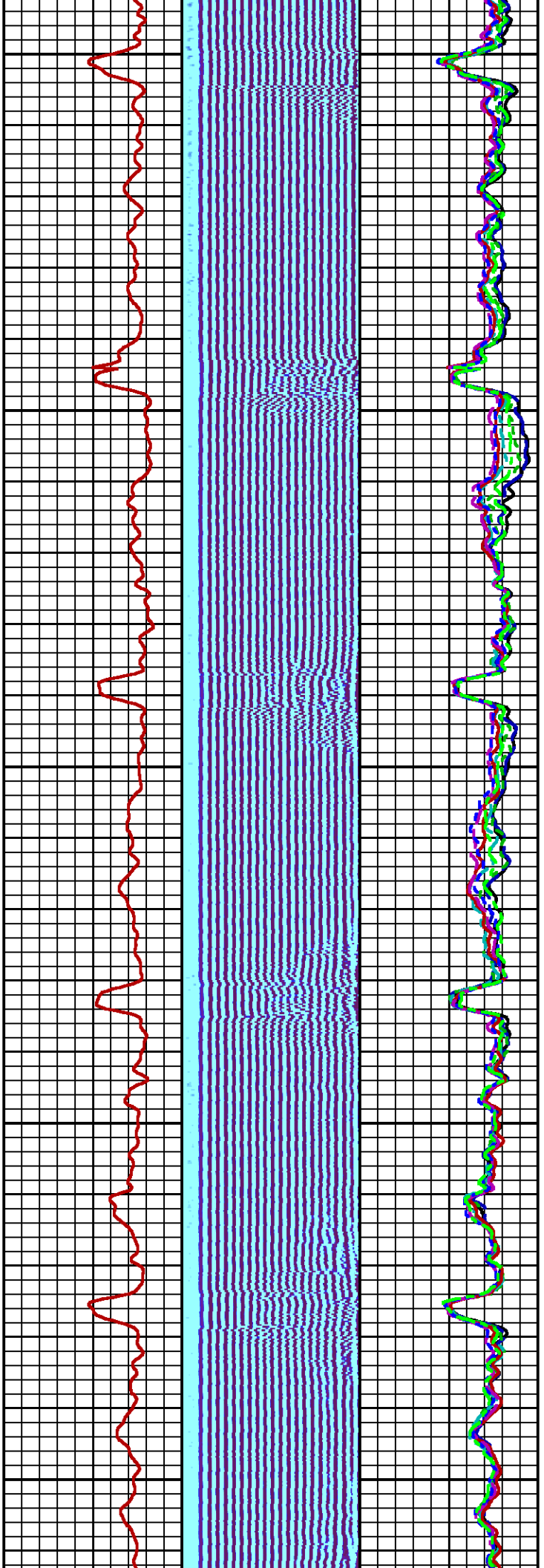
### CURVE MEASURE POINT OFFSET

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		

<b>Presentation</b>	: cpu100:/dat1a/CH106693/413WPX_CBL_SECONDARY_PRESENTATION.fvpdf [5"/100' Scale]
<b>Plot Interval</b>	: 0 - 9199 Feet
<b>Data File 1</b>	: F1 : cpu100:/dat1a/CH106693/n012gs3.xtf
<b>Created On</b>	: Apr 16 14:56:17 2016
<b>Company</b>	: WPX ENERGY
<b>Well</b>	: FEDERAL RU 413-6
<b>Field</b>	: RULISON
<b>File Interval</b>	: 15 - 9202.75 Feet
<b>OCT</b>	: n012g

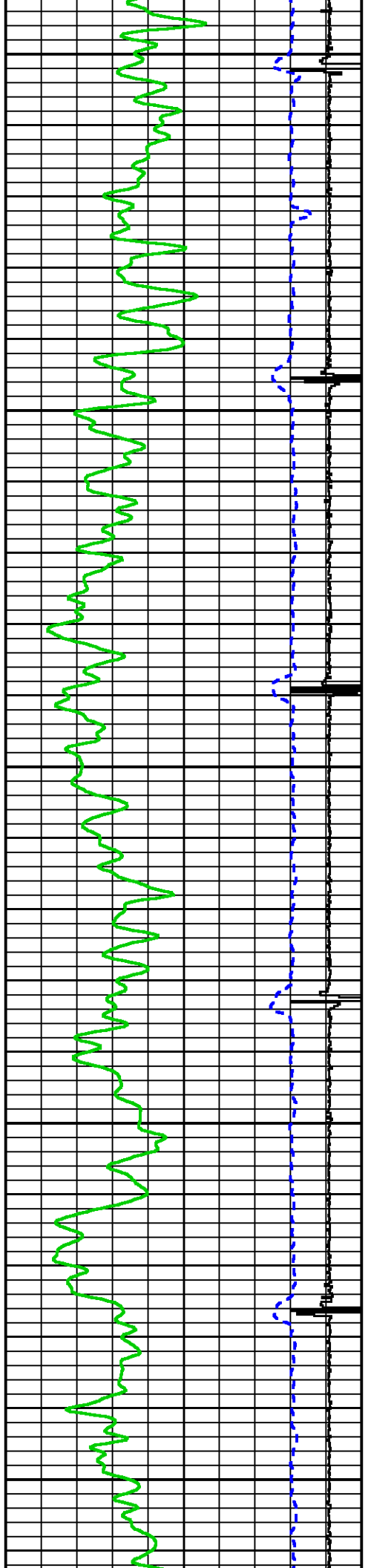


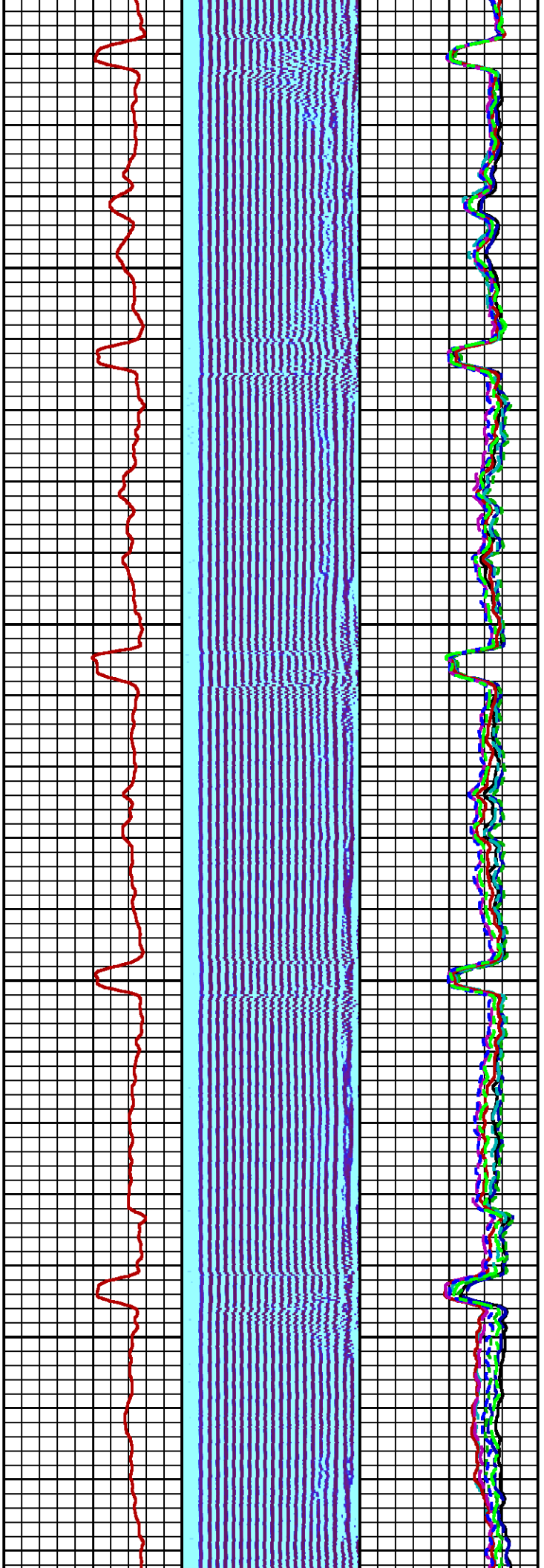




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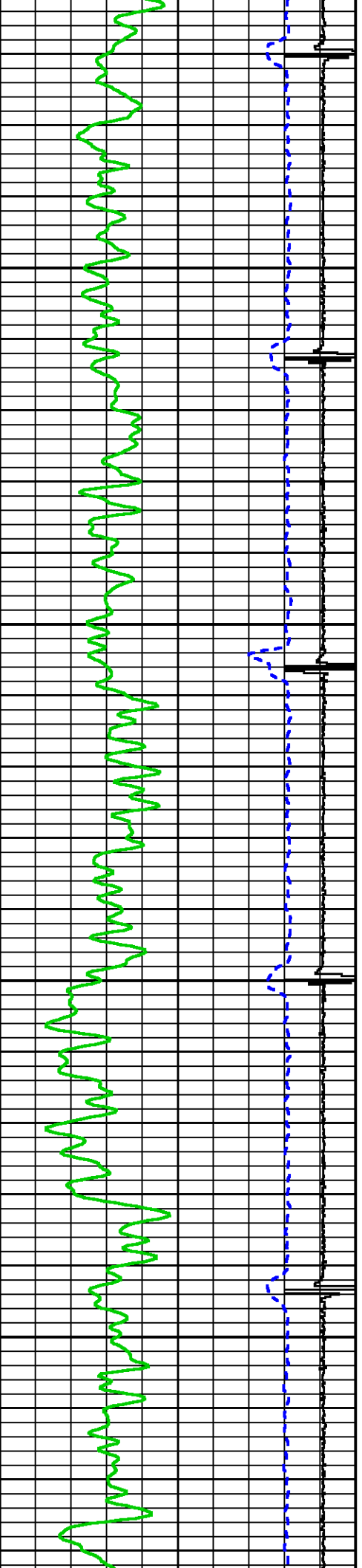
400



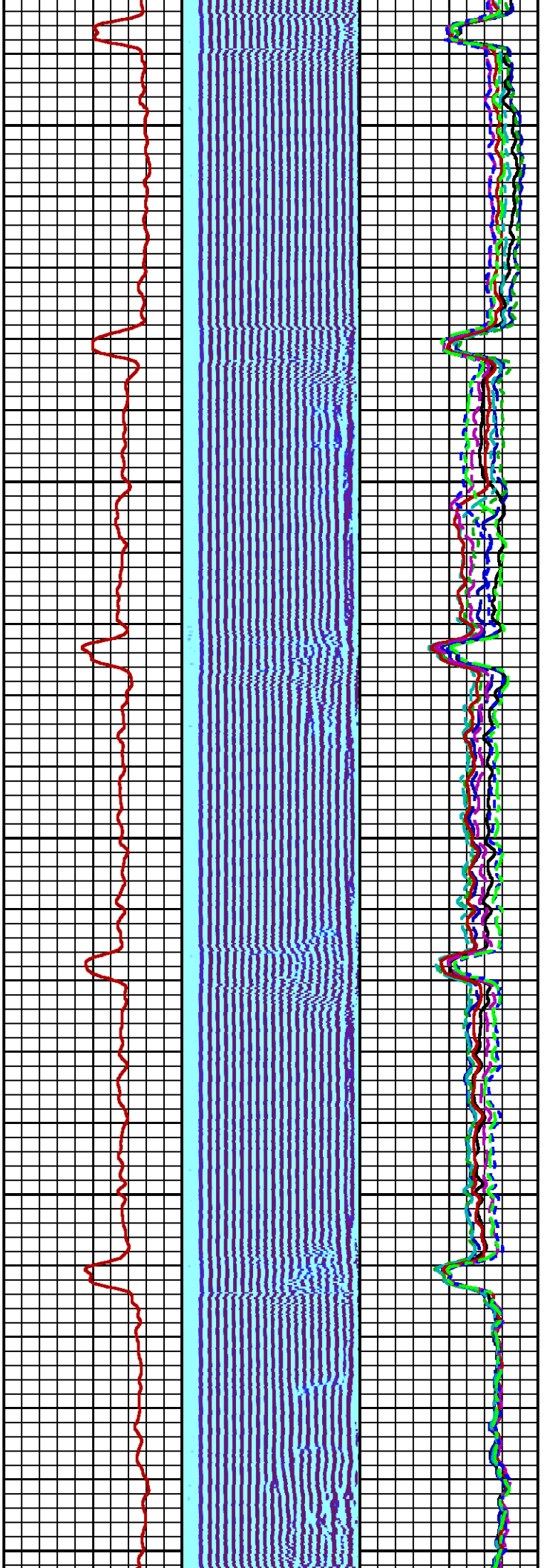


500

600



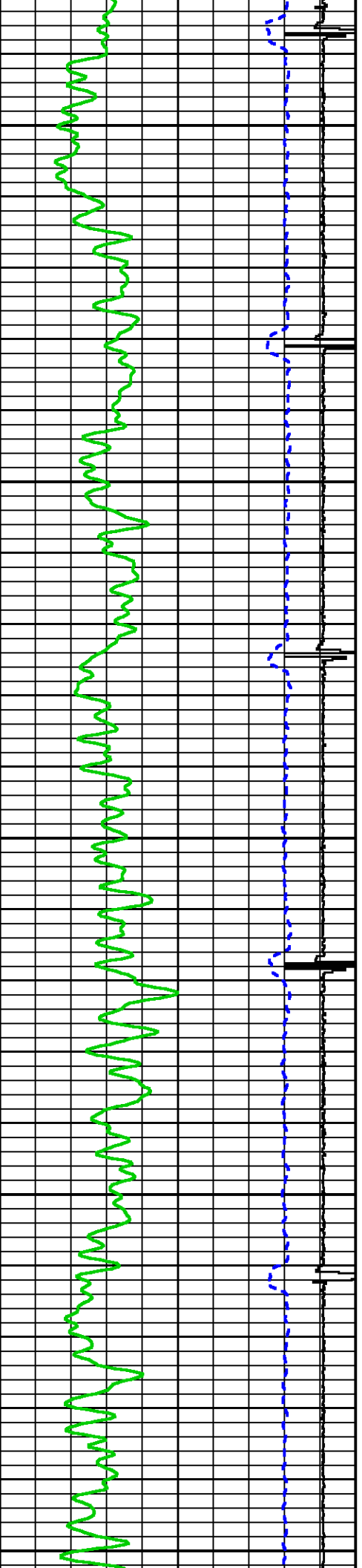


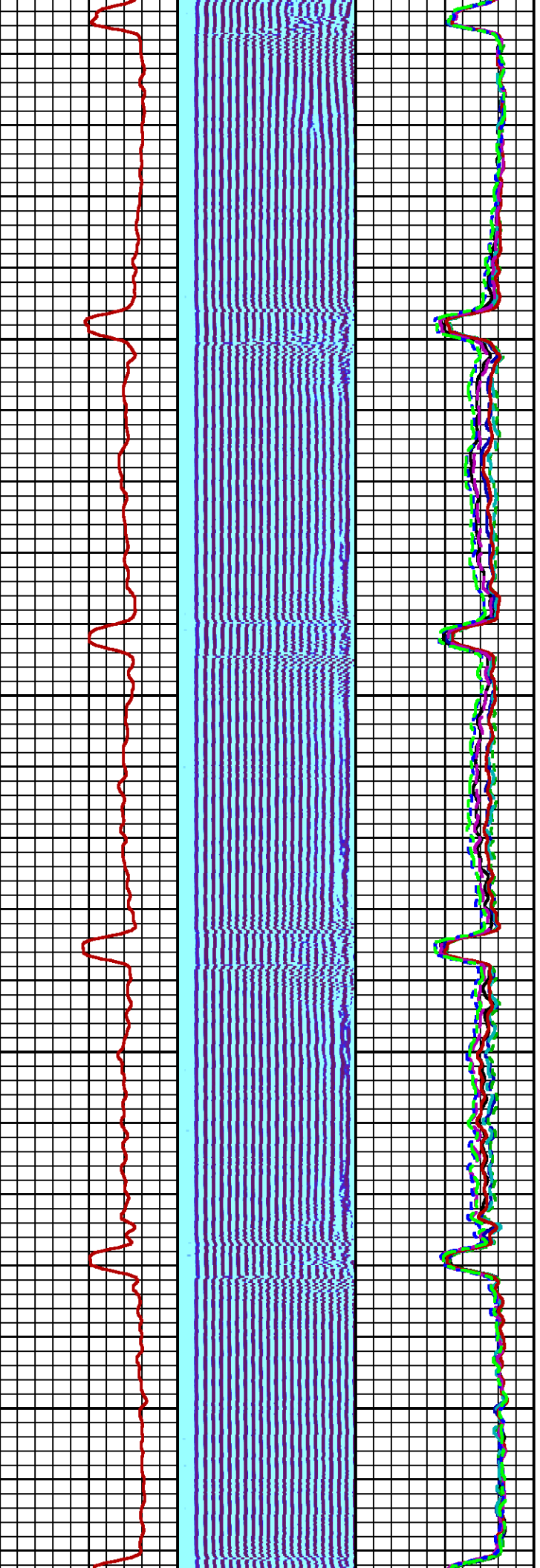


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800

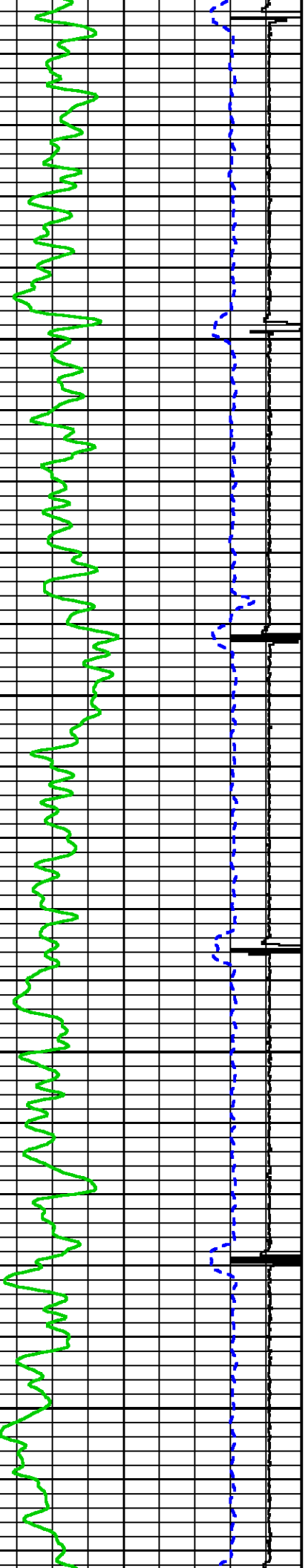
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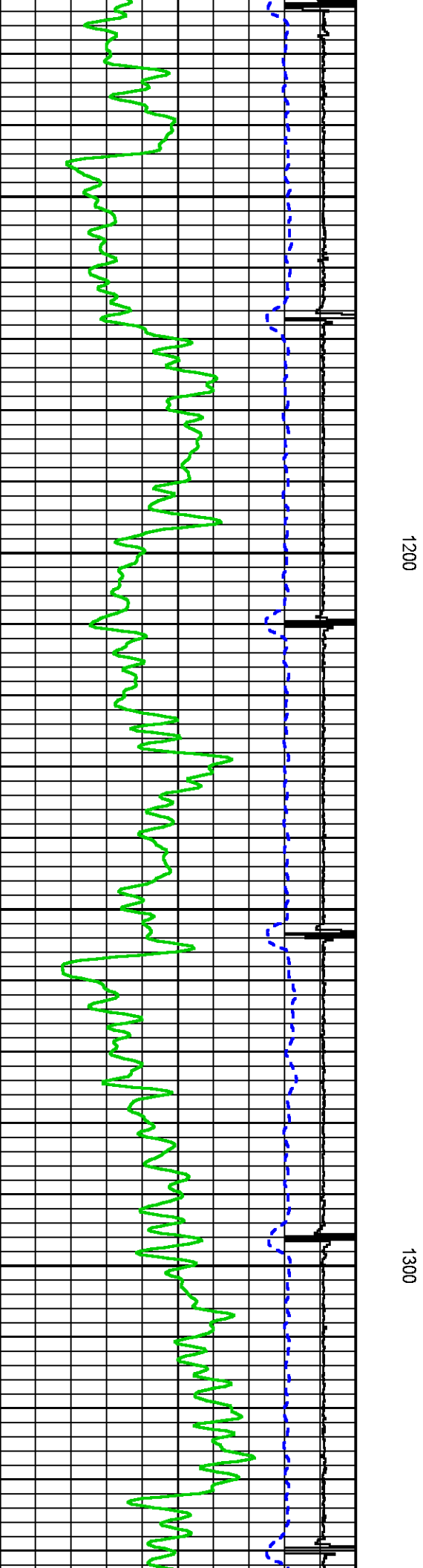
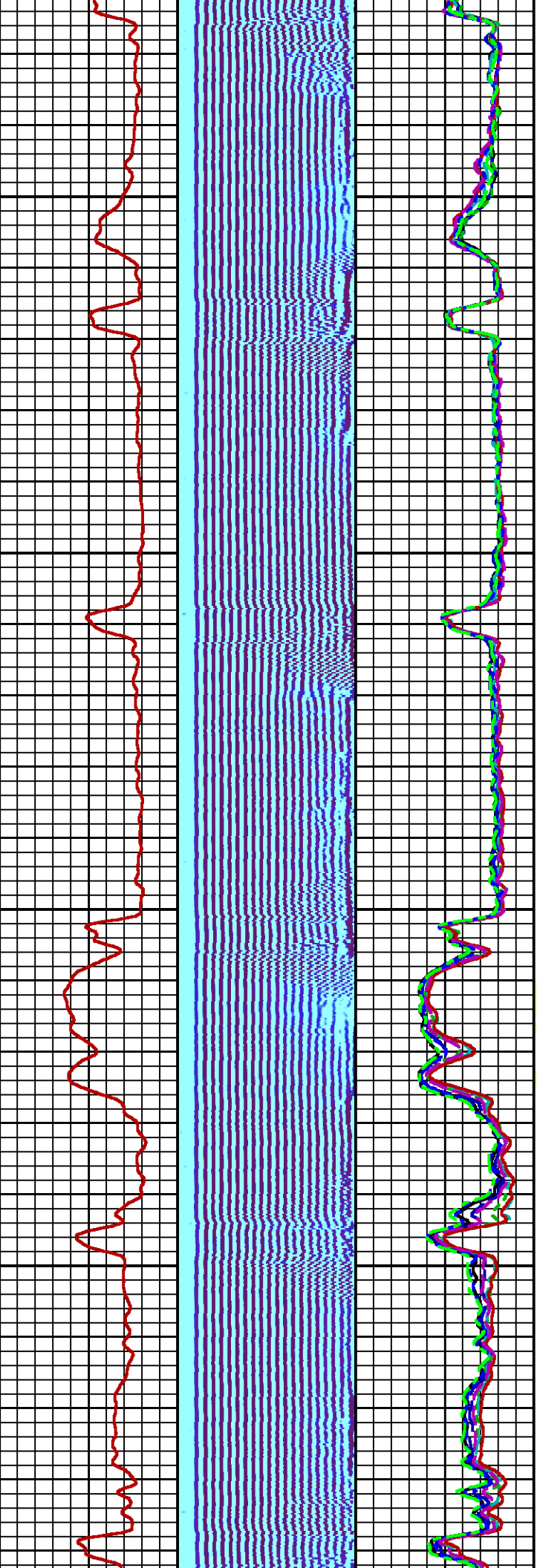


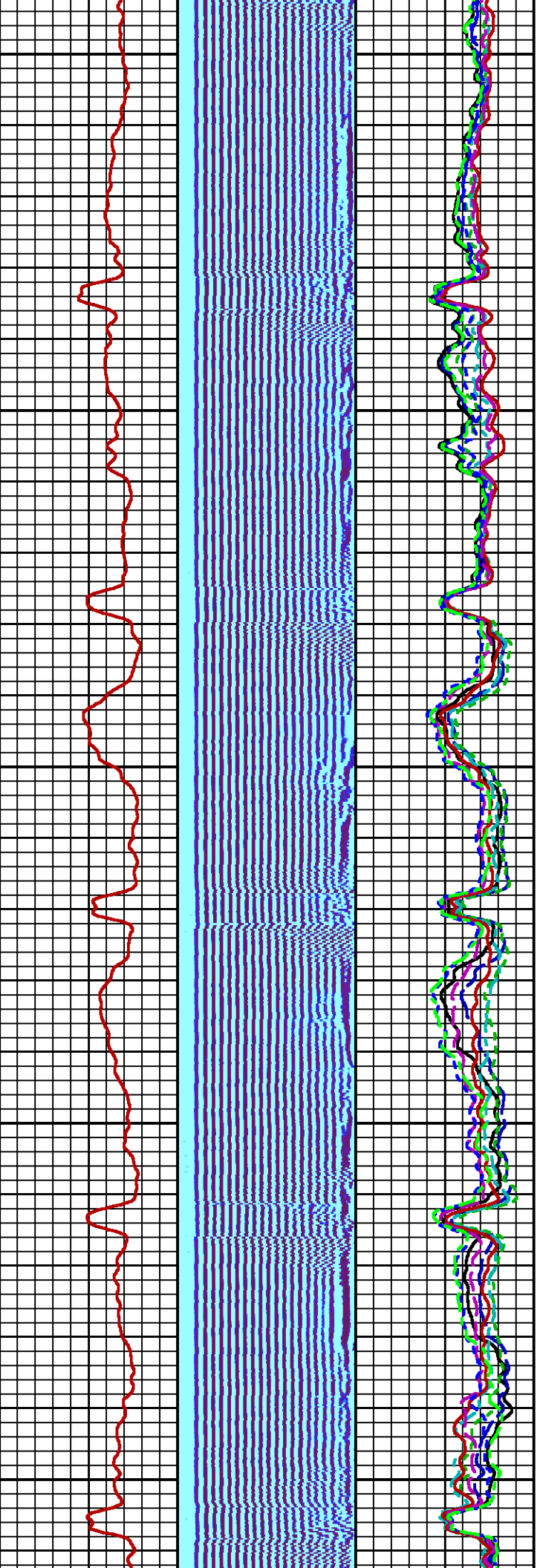


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1100

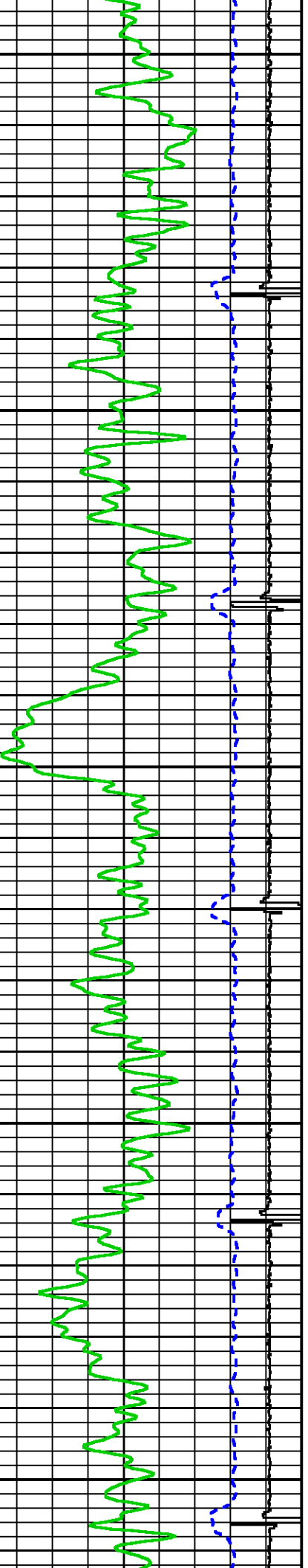




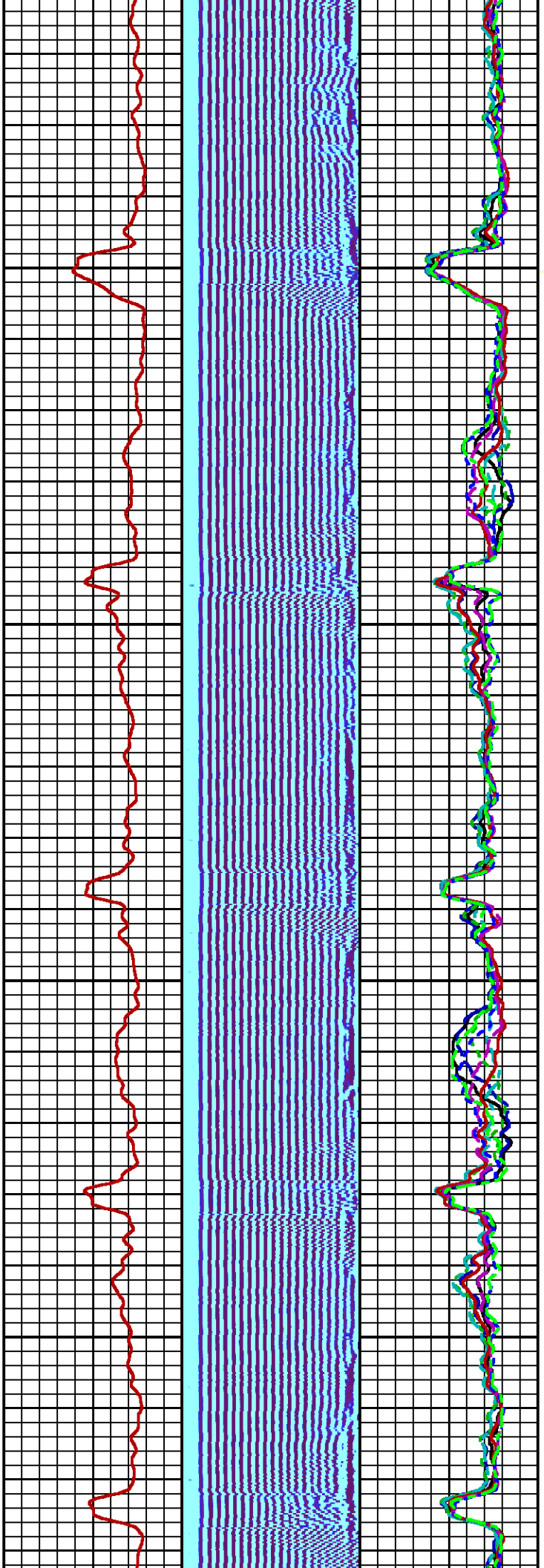


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1500

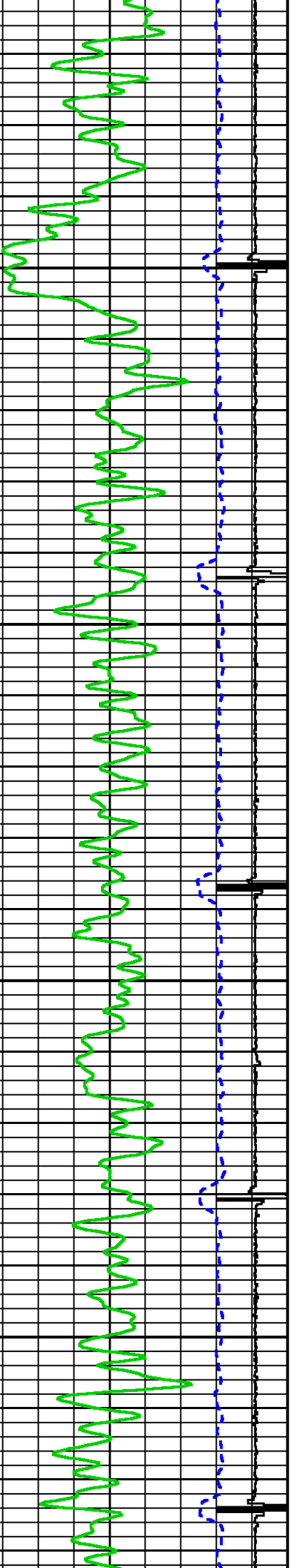


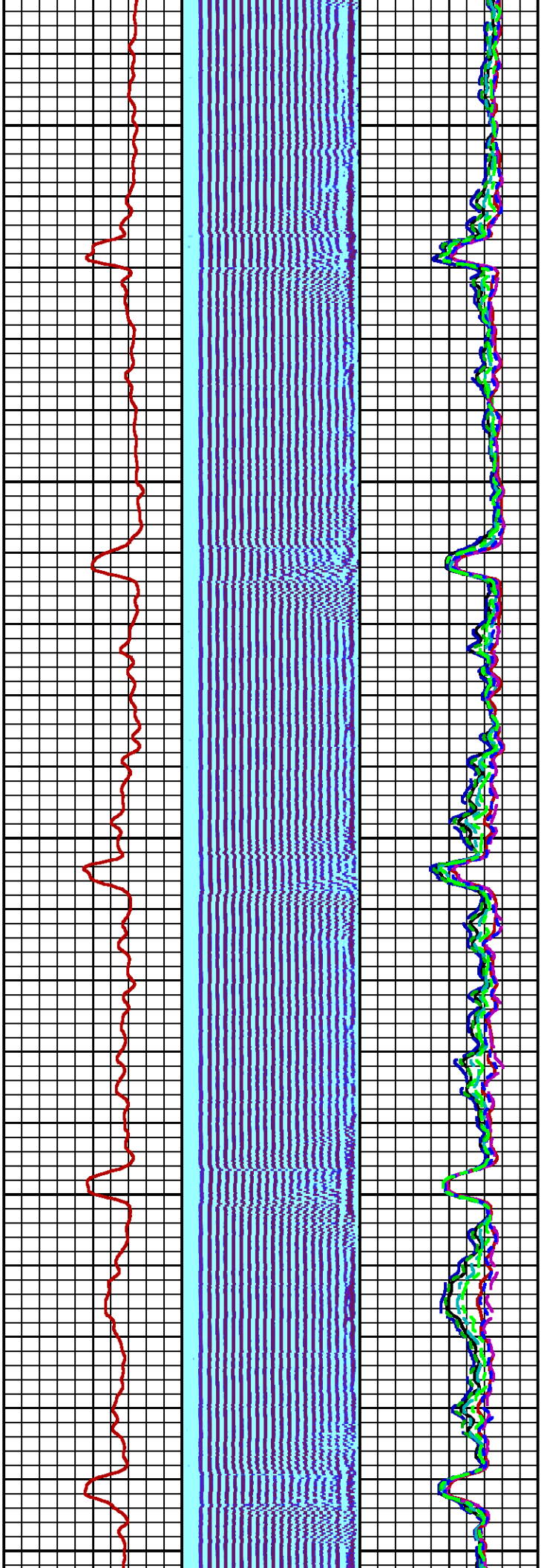




1600

1700

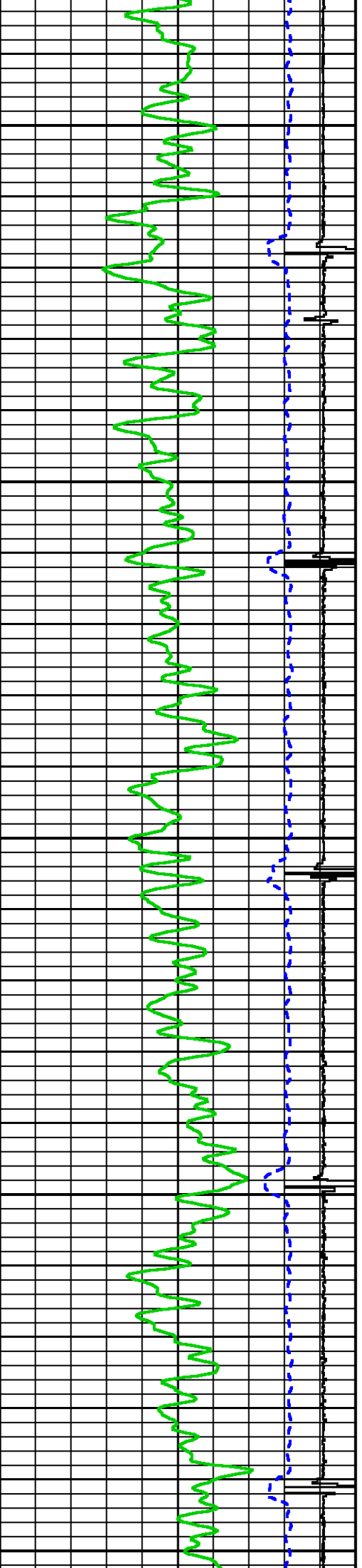


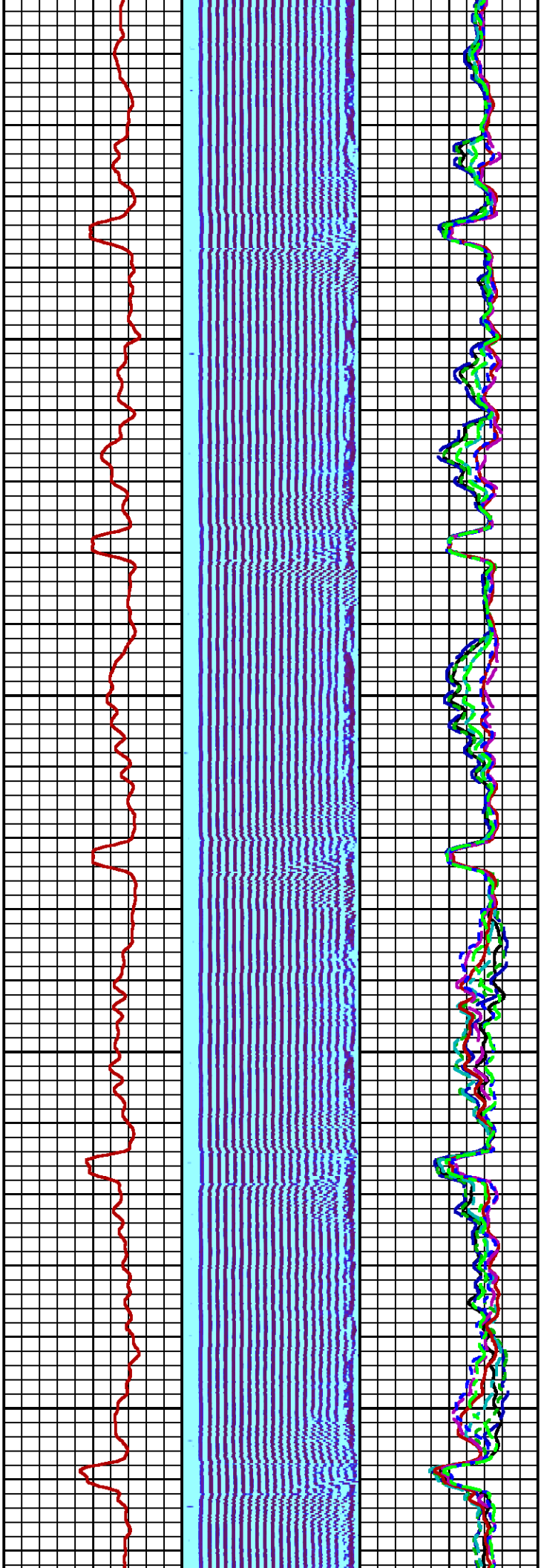


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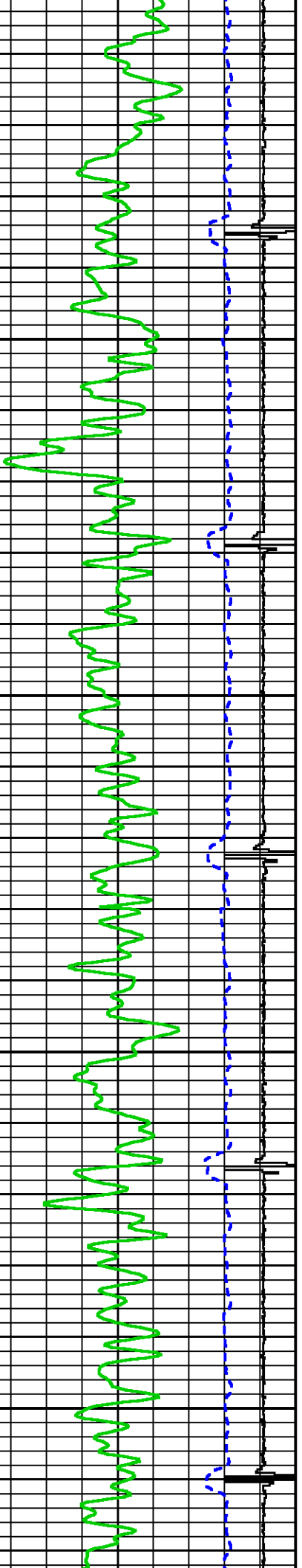
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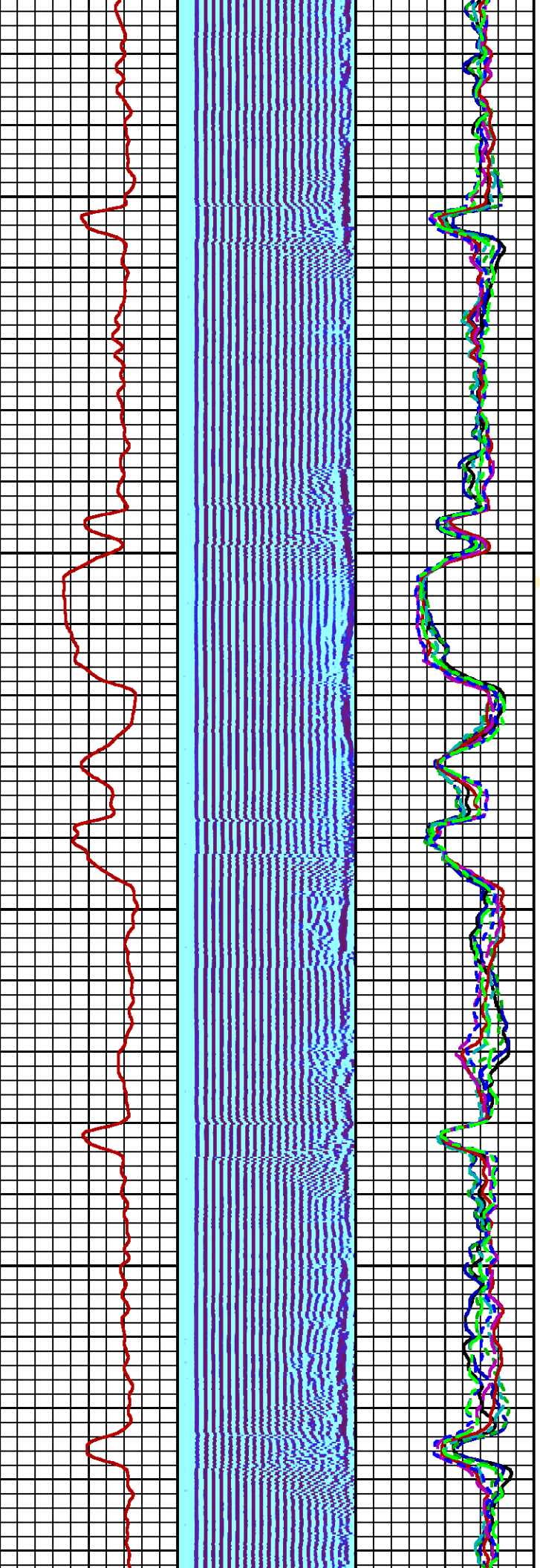




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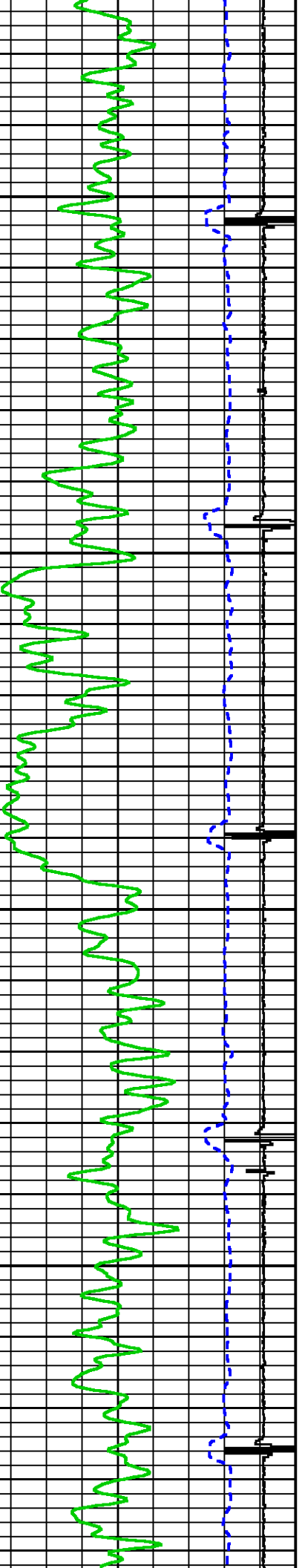
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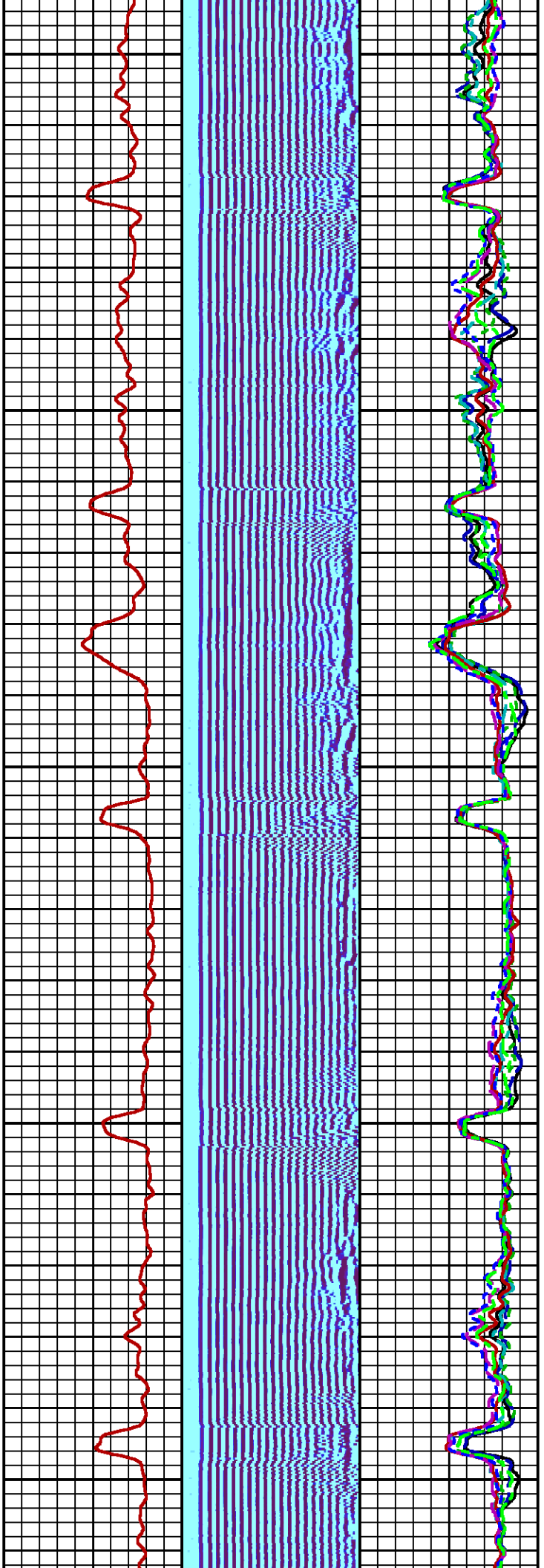


2300

2400

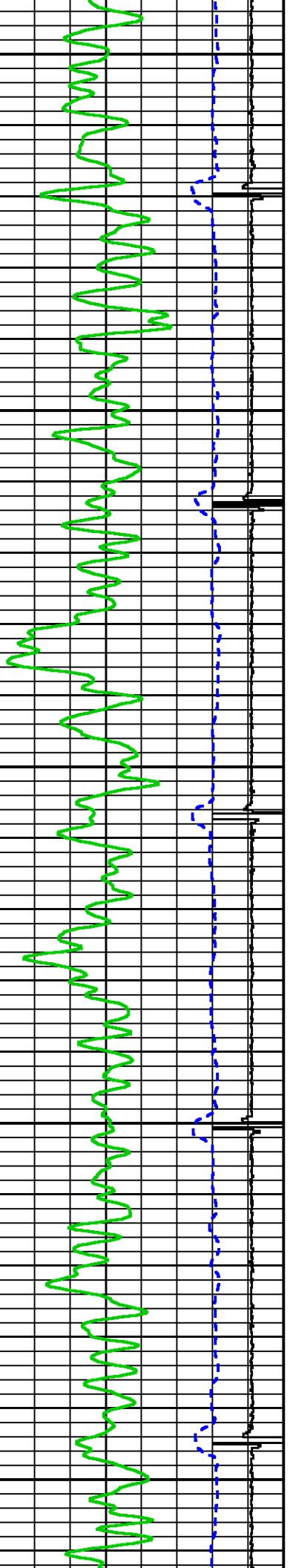


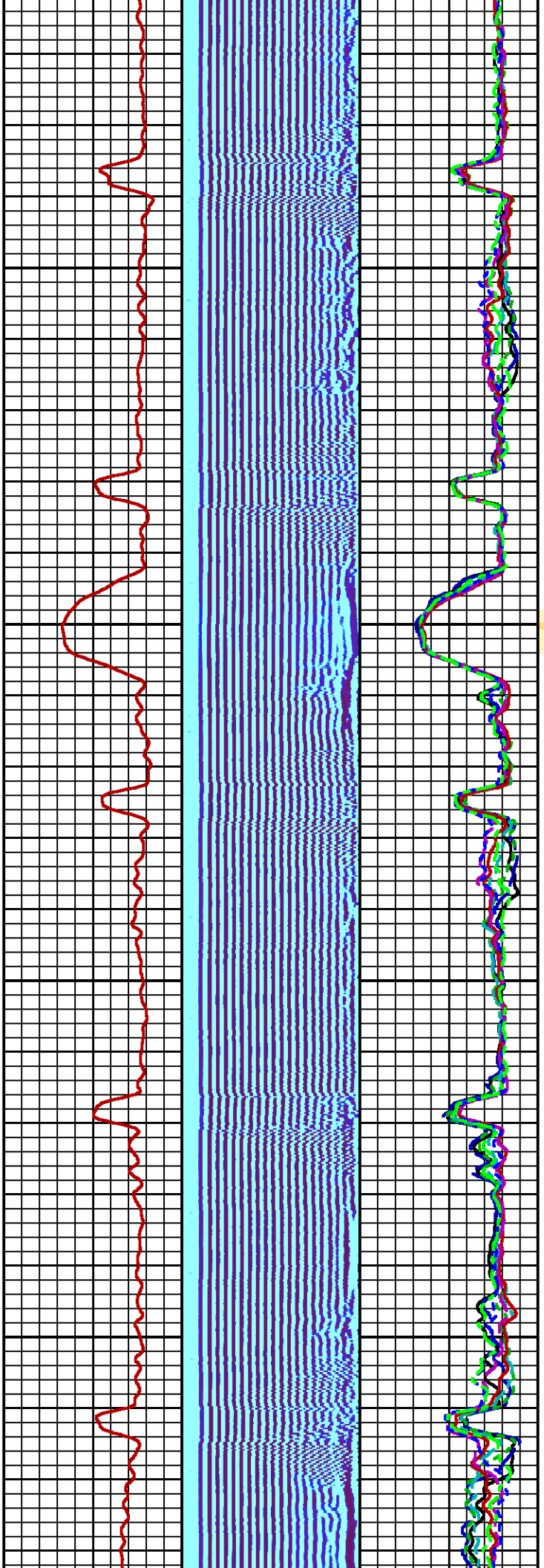




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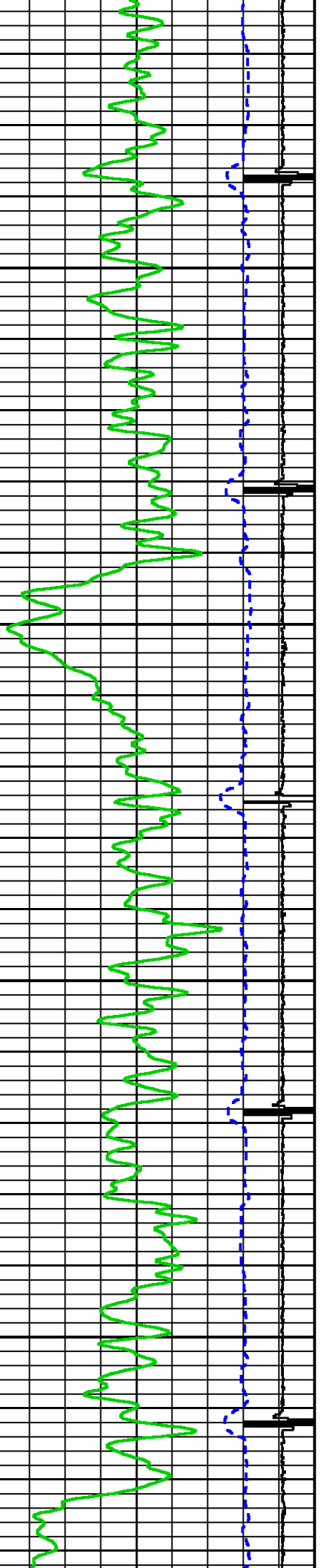
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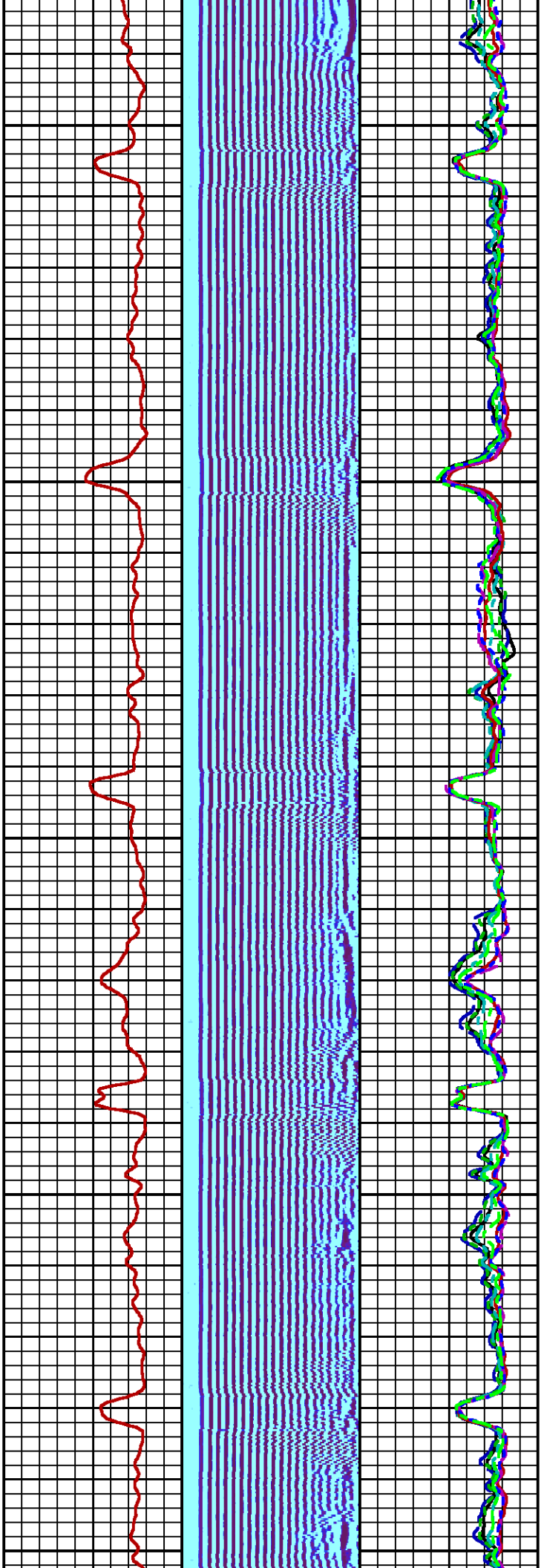




2700

2800

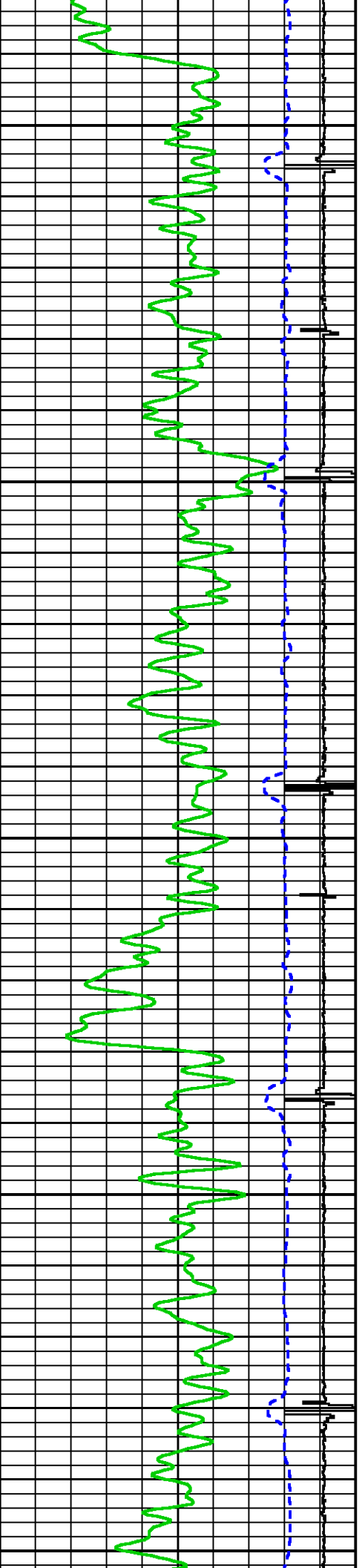


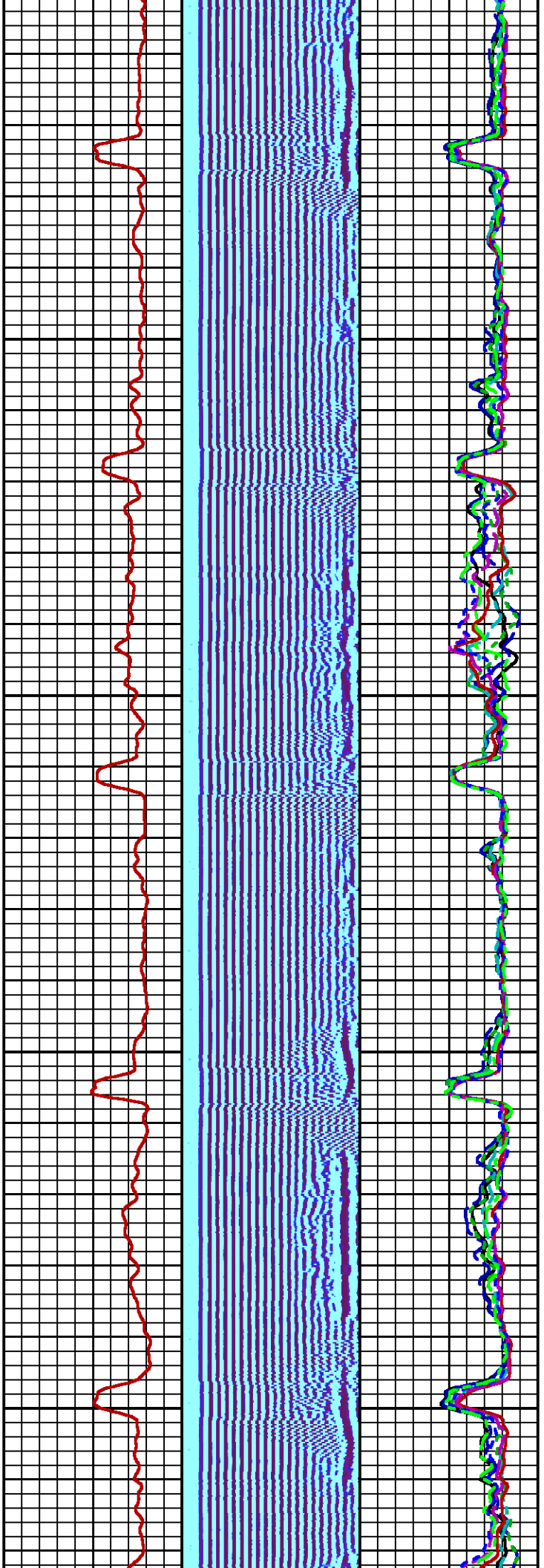


2900

3000

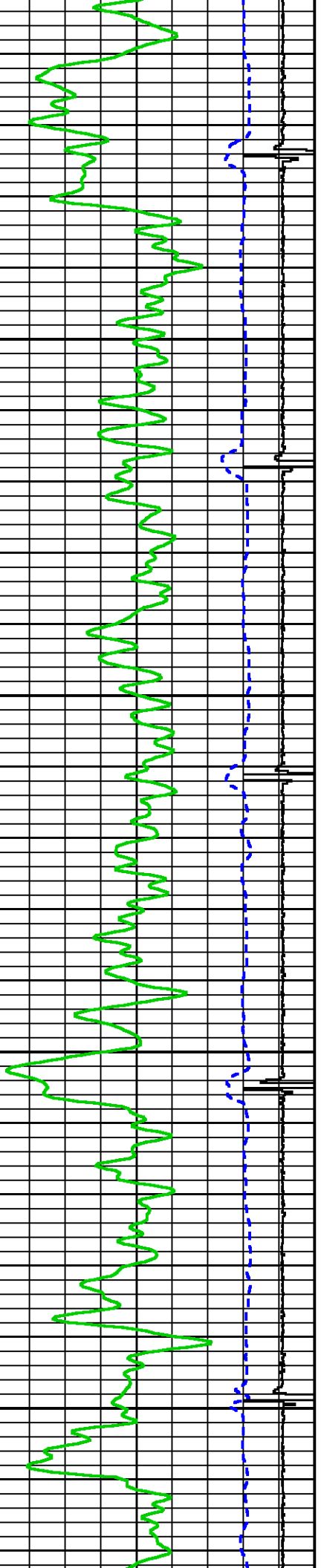
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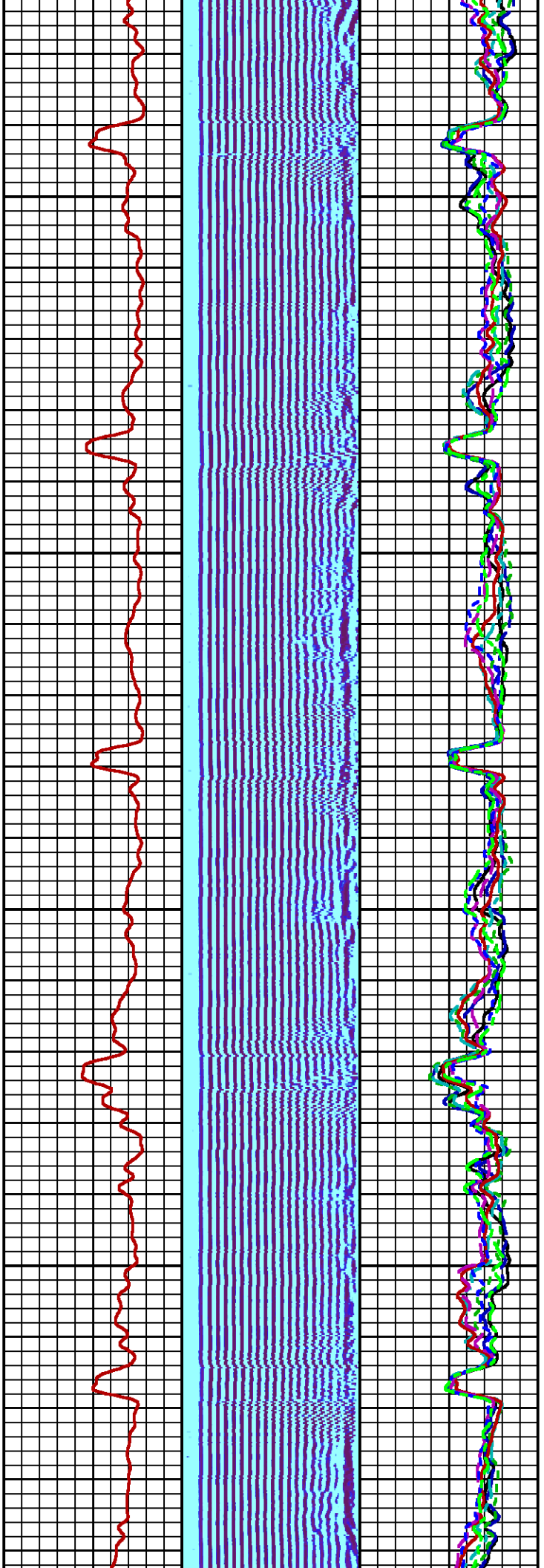


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3300

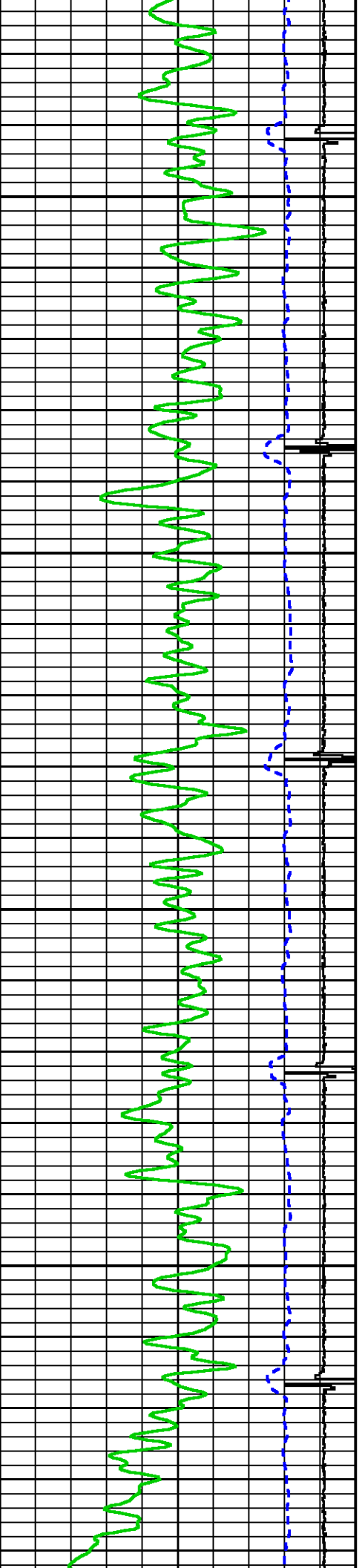


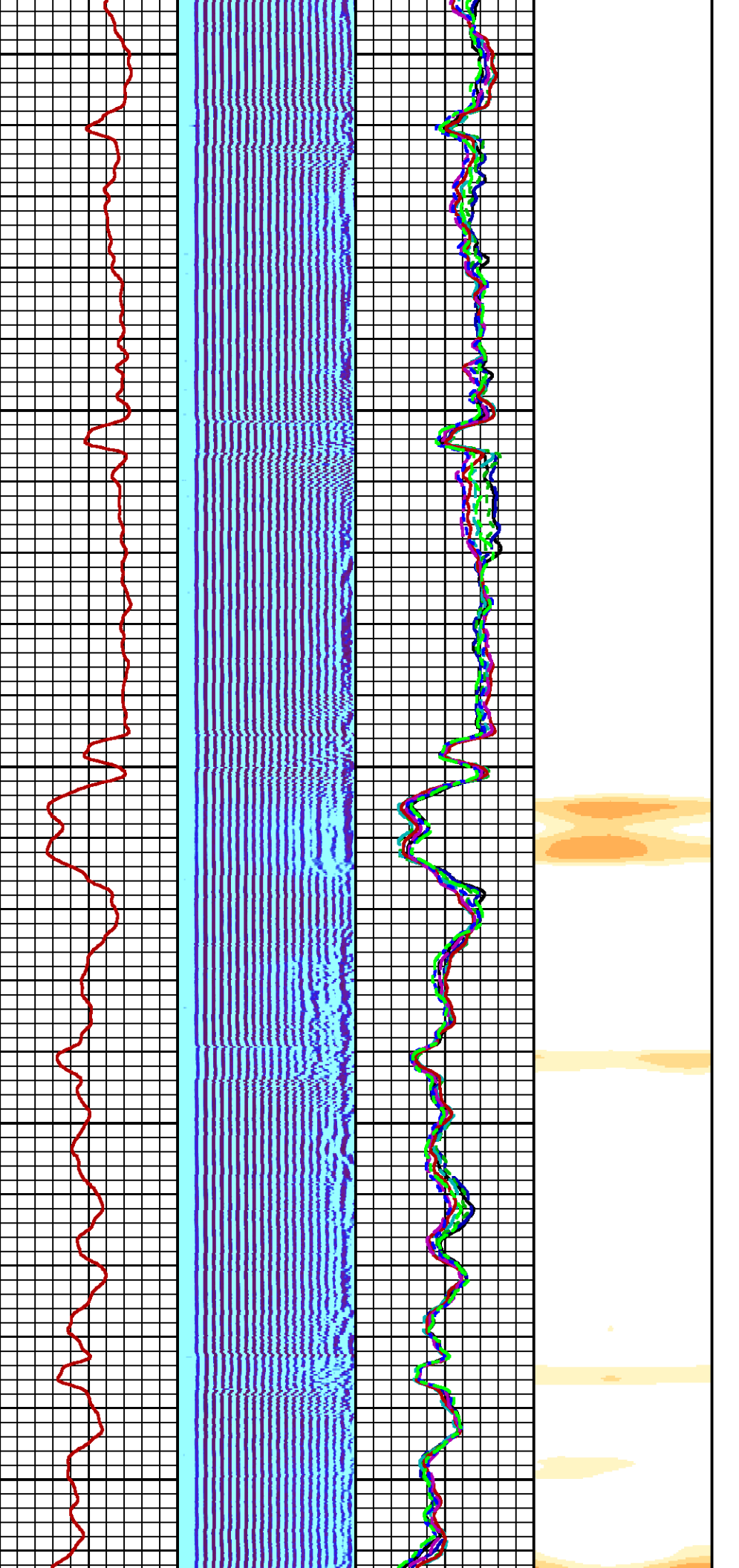




3400

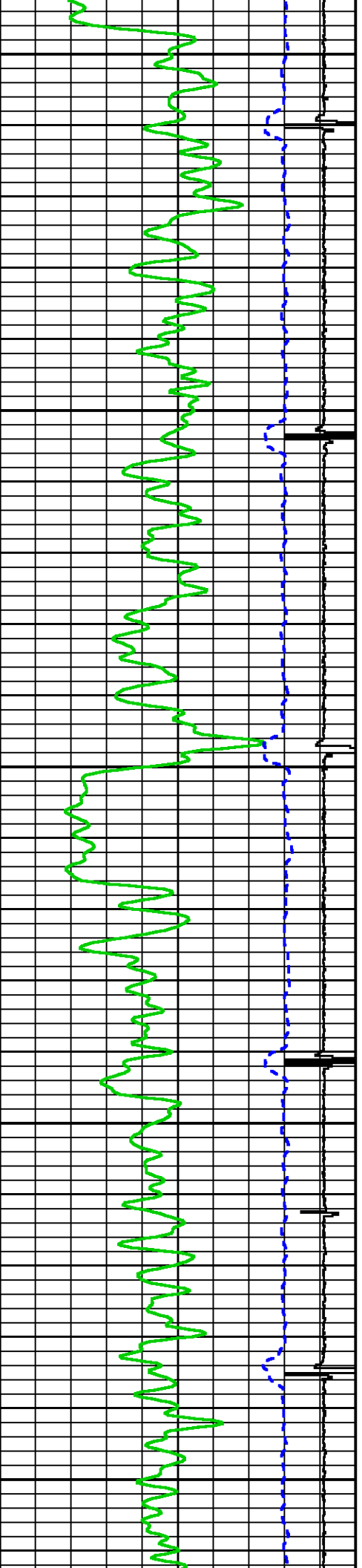
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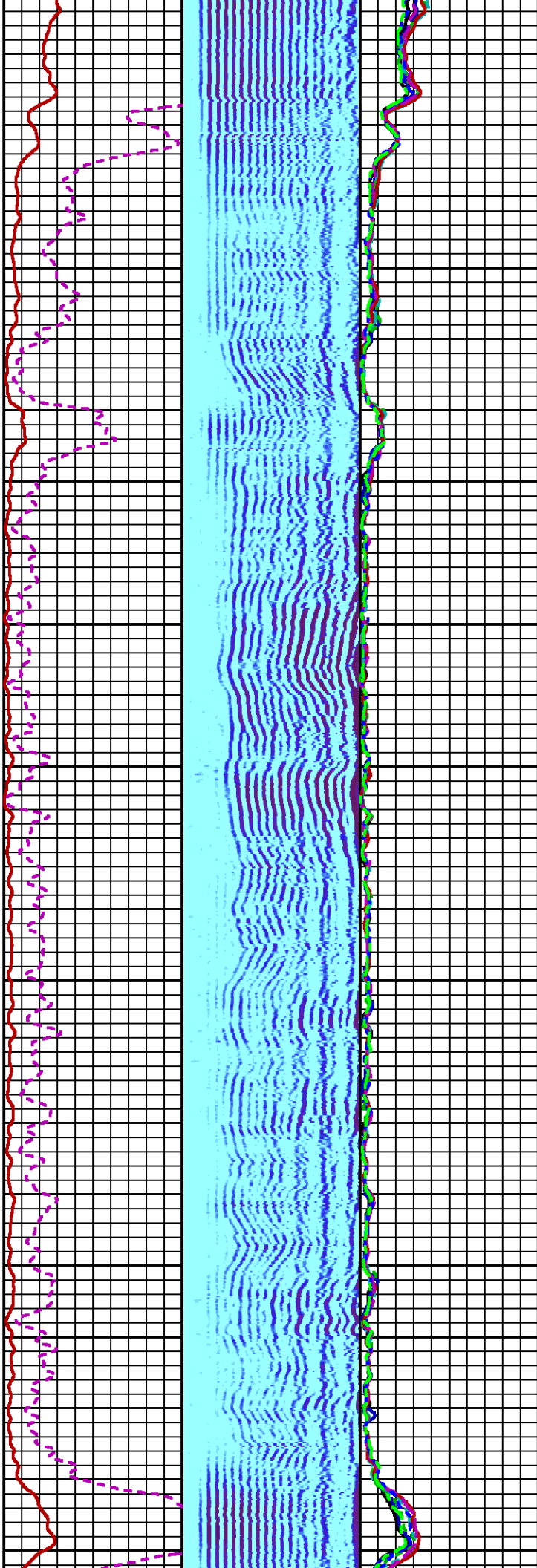




3600

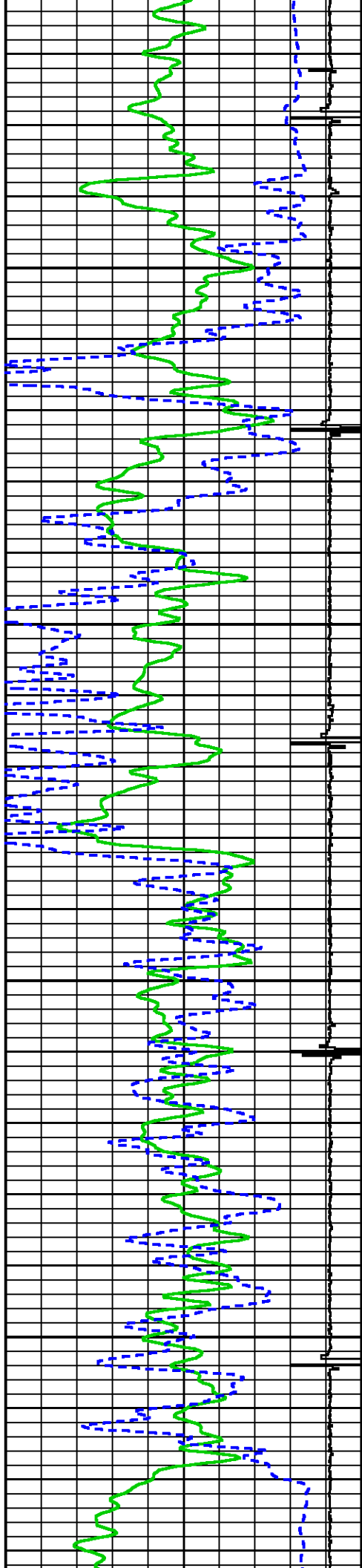
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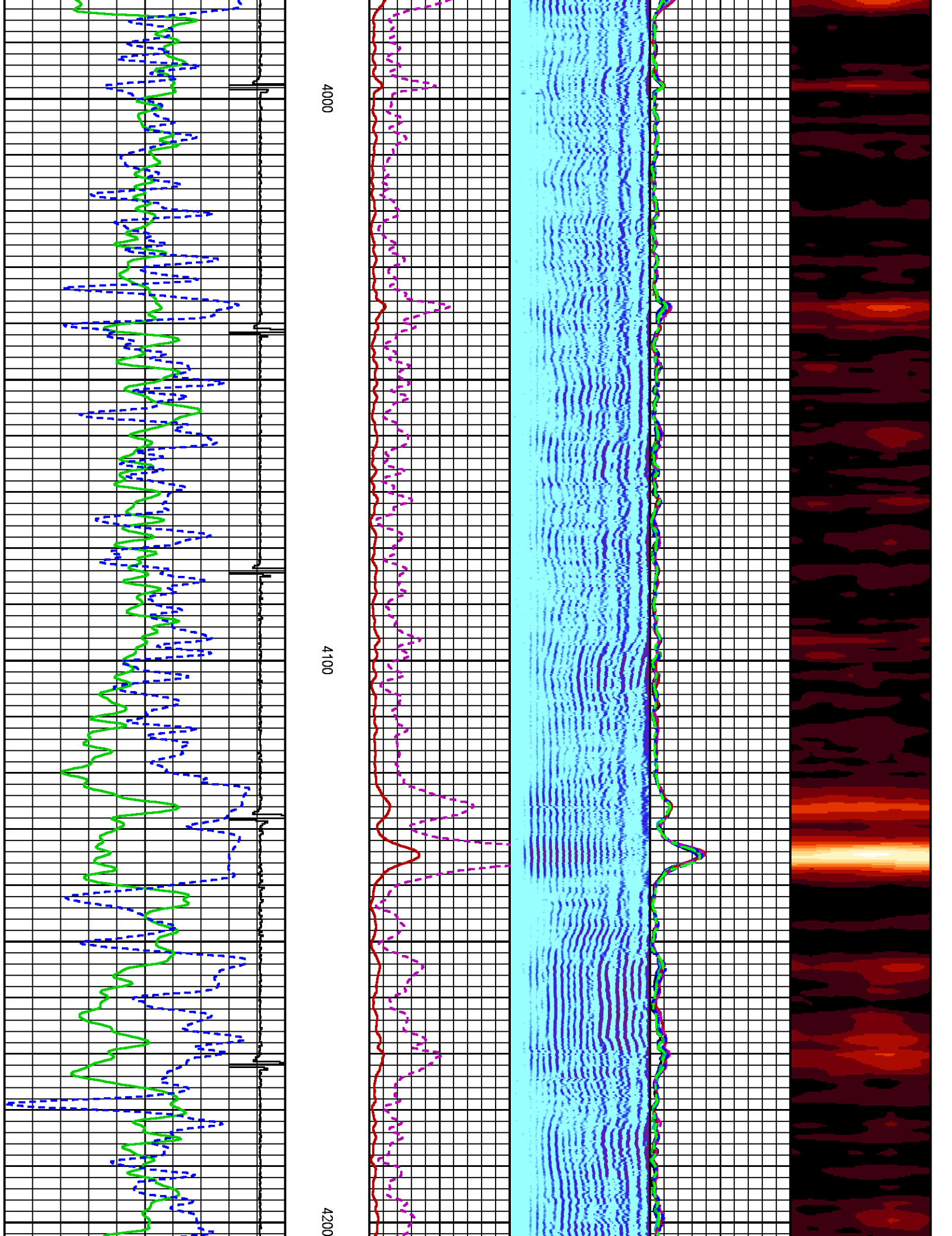




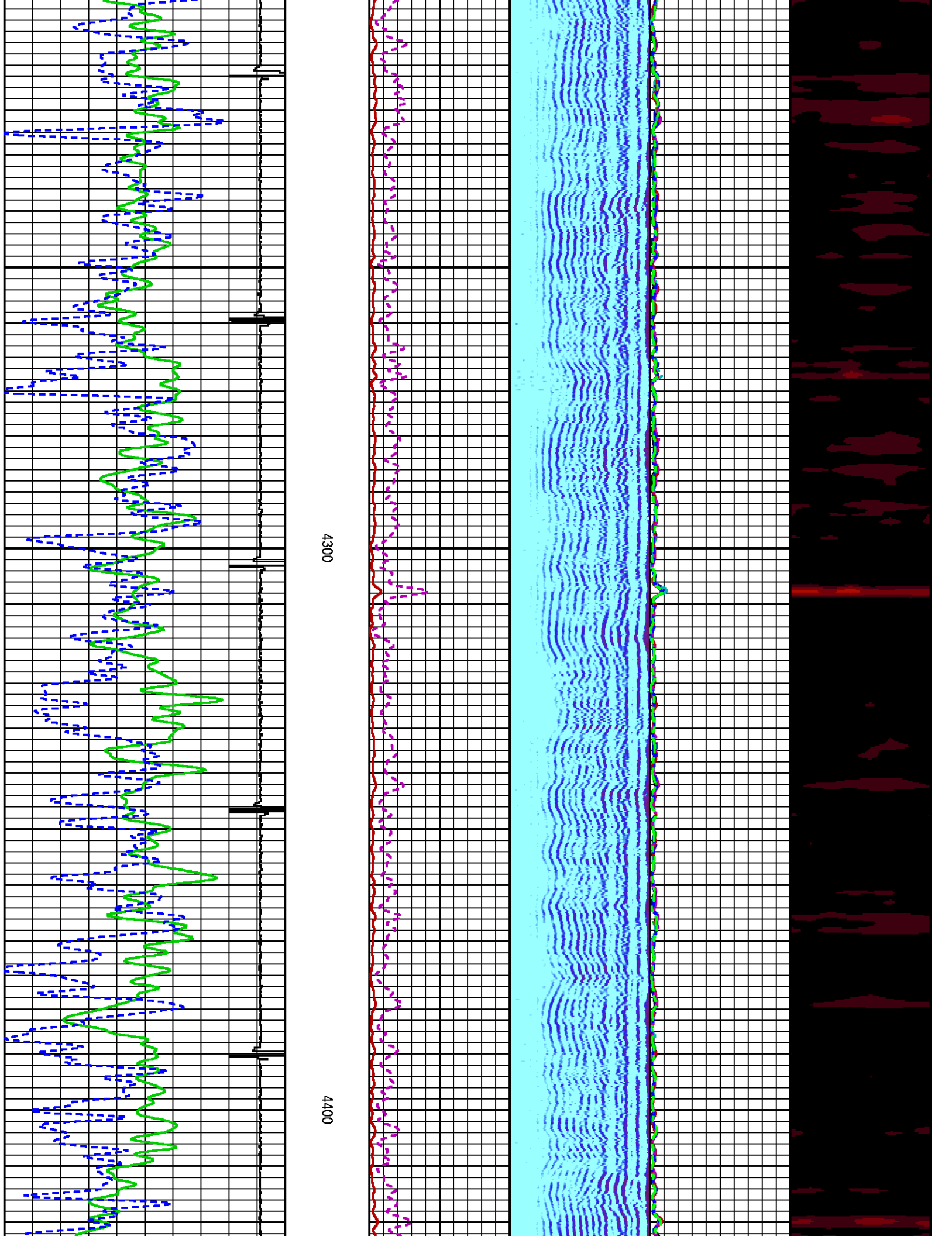
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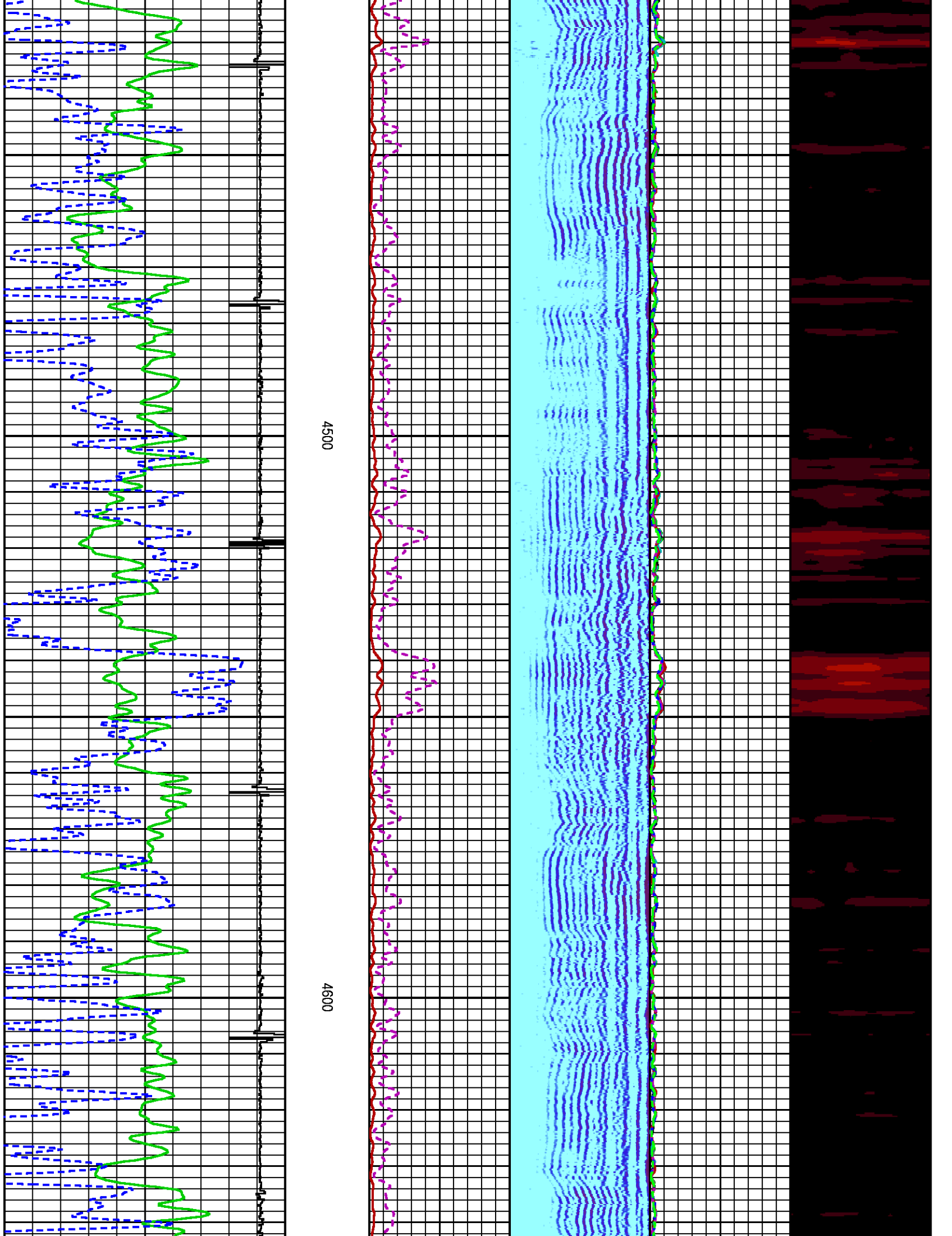
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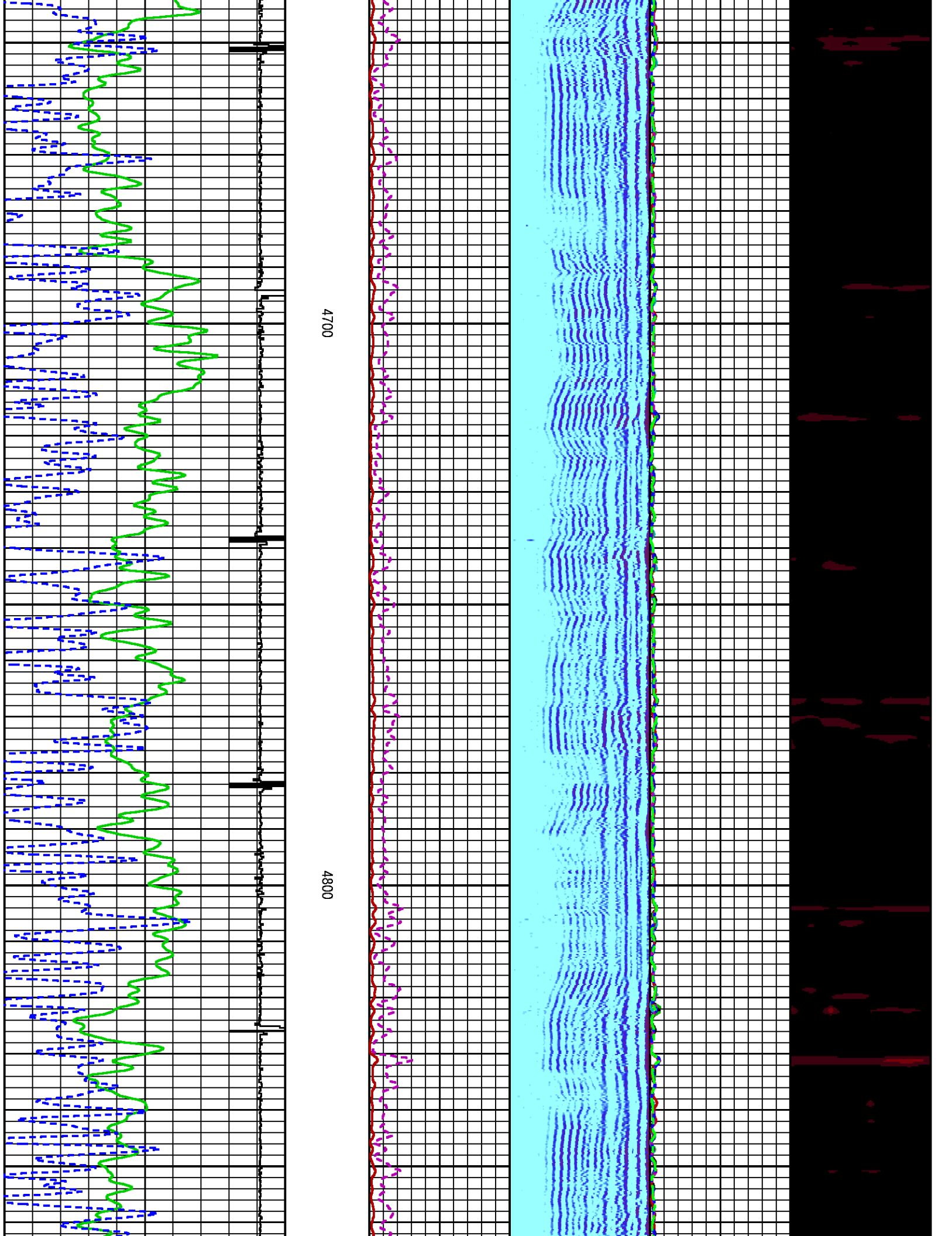


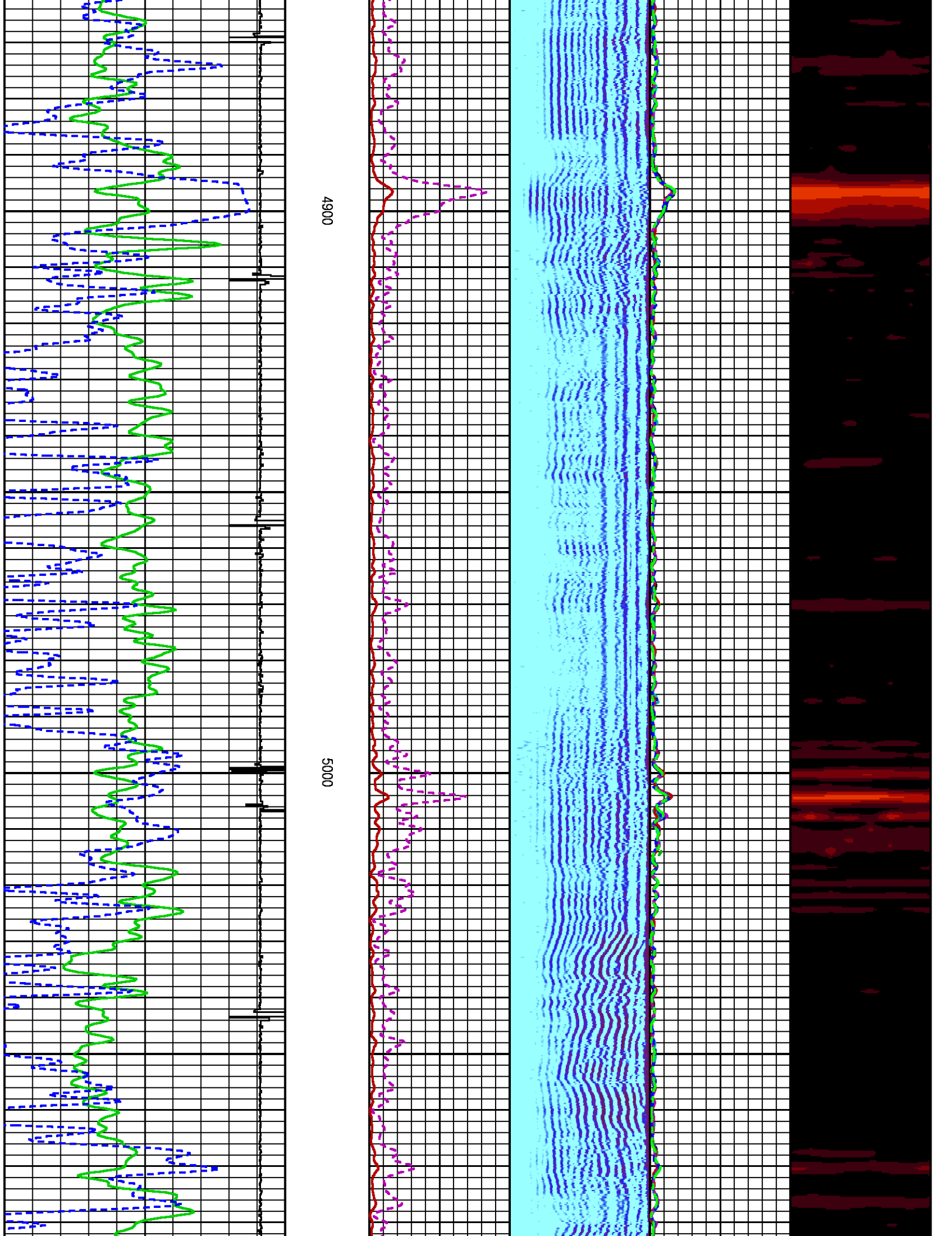




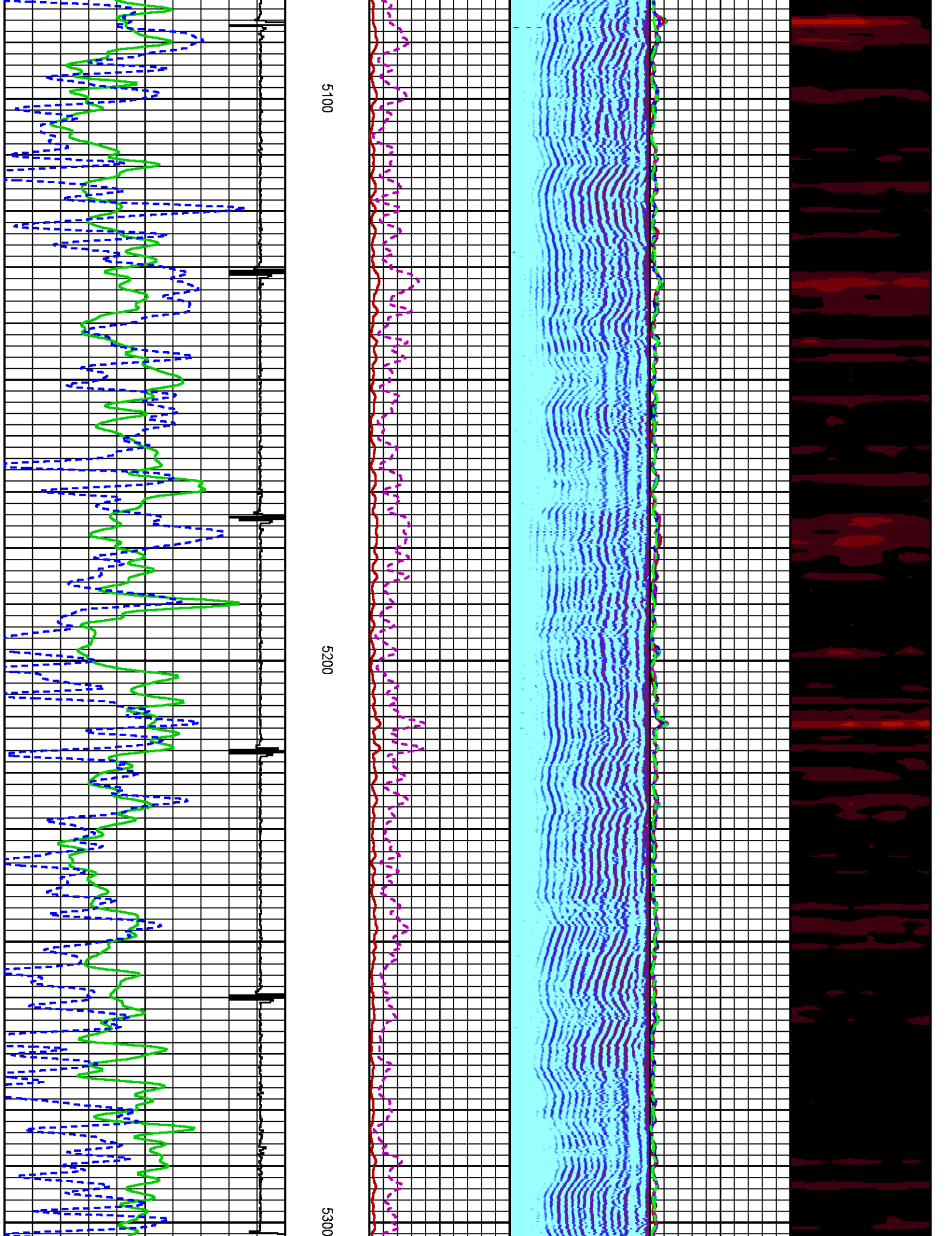


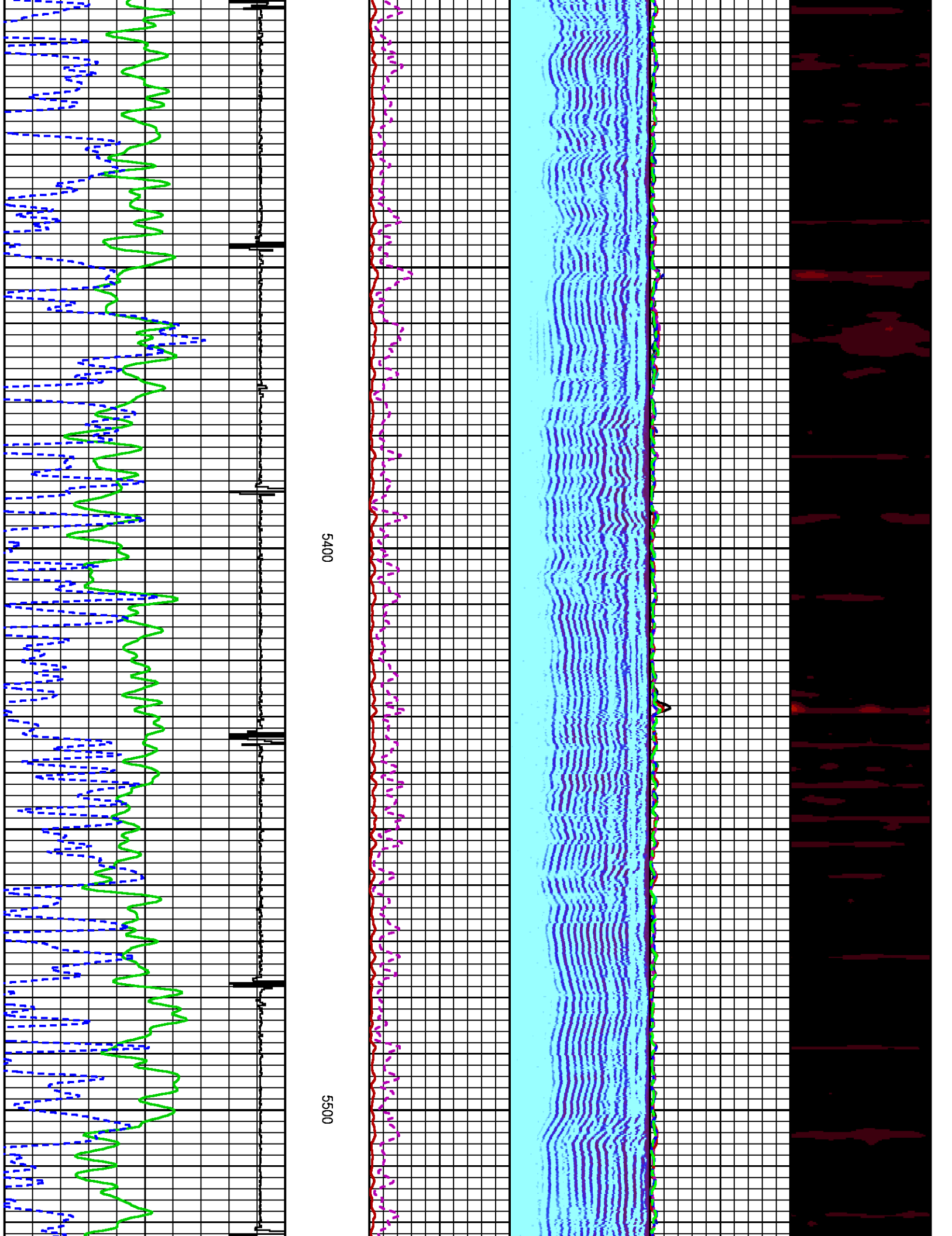


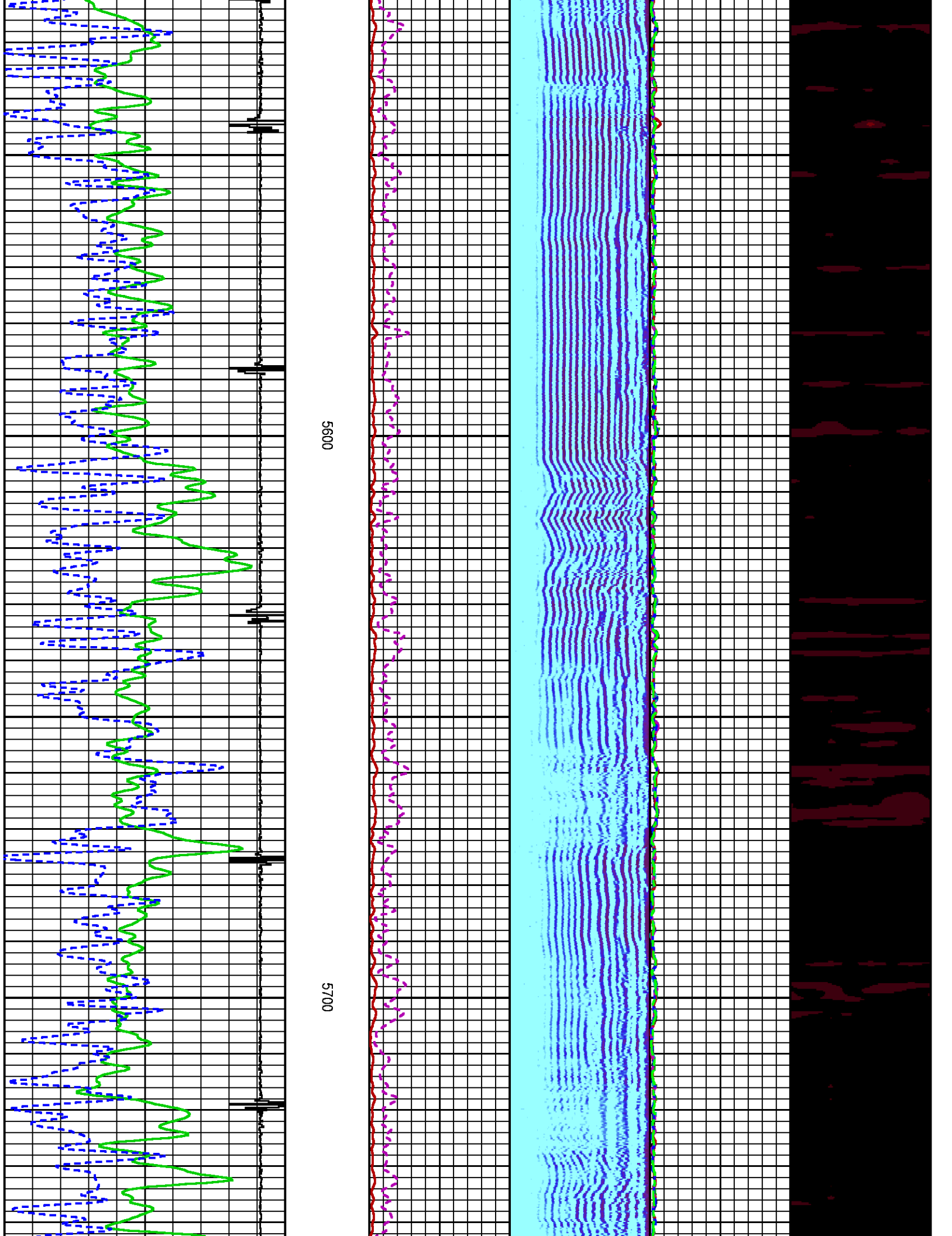


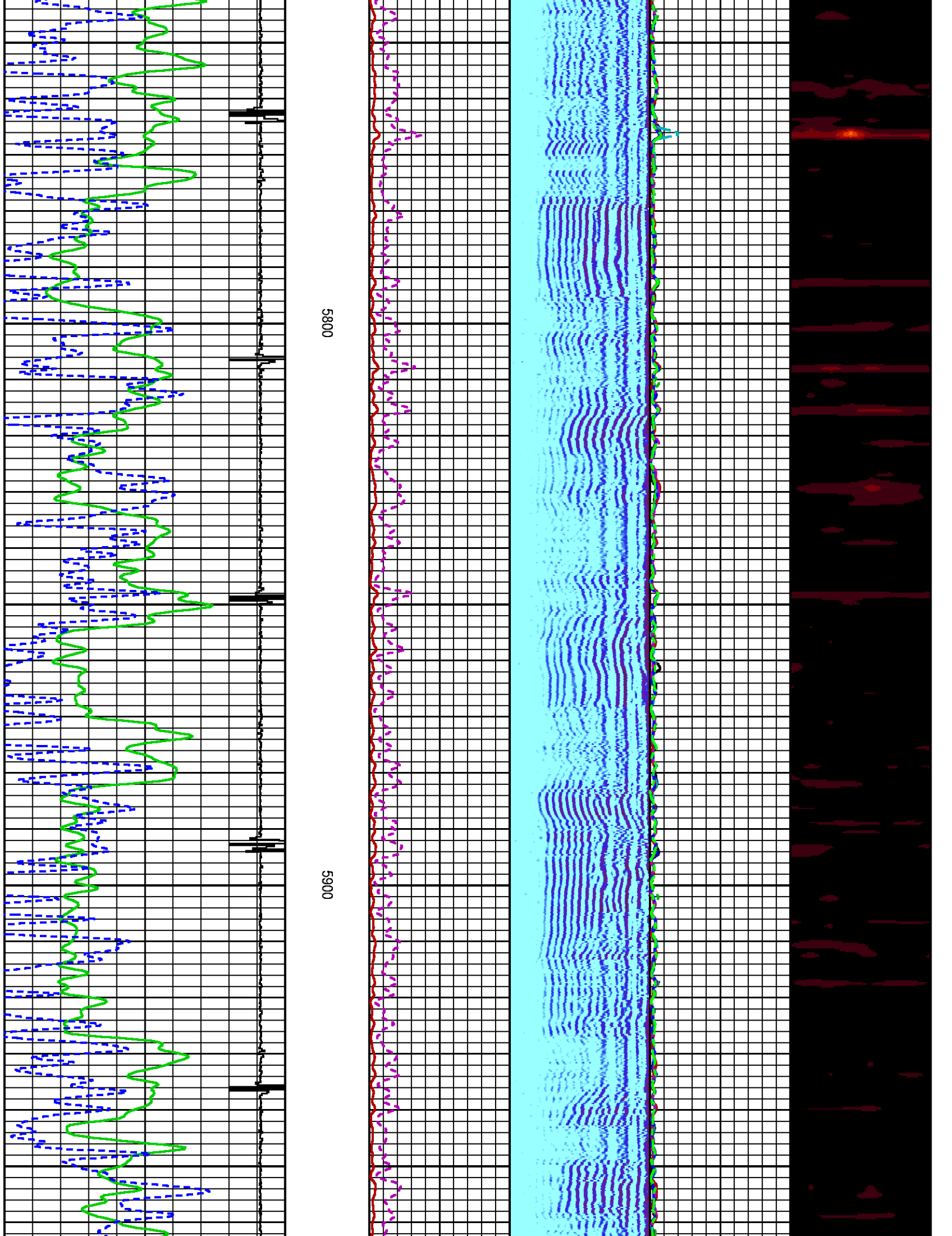




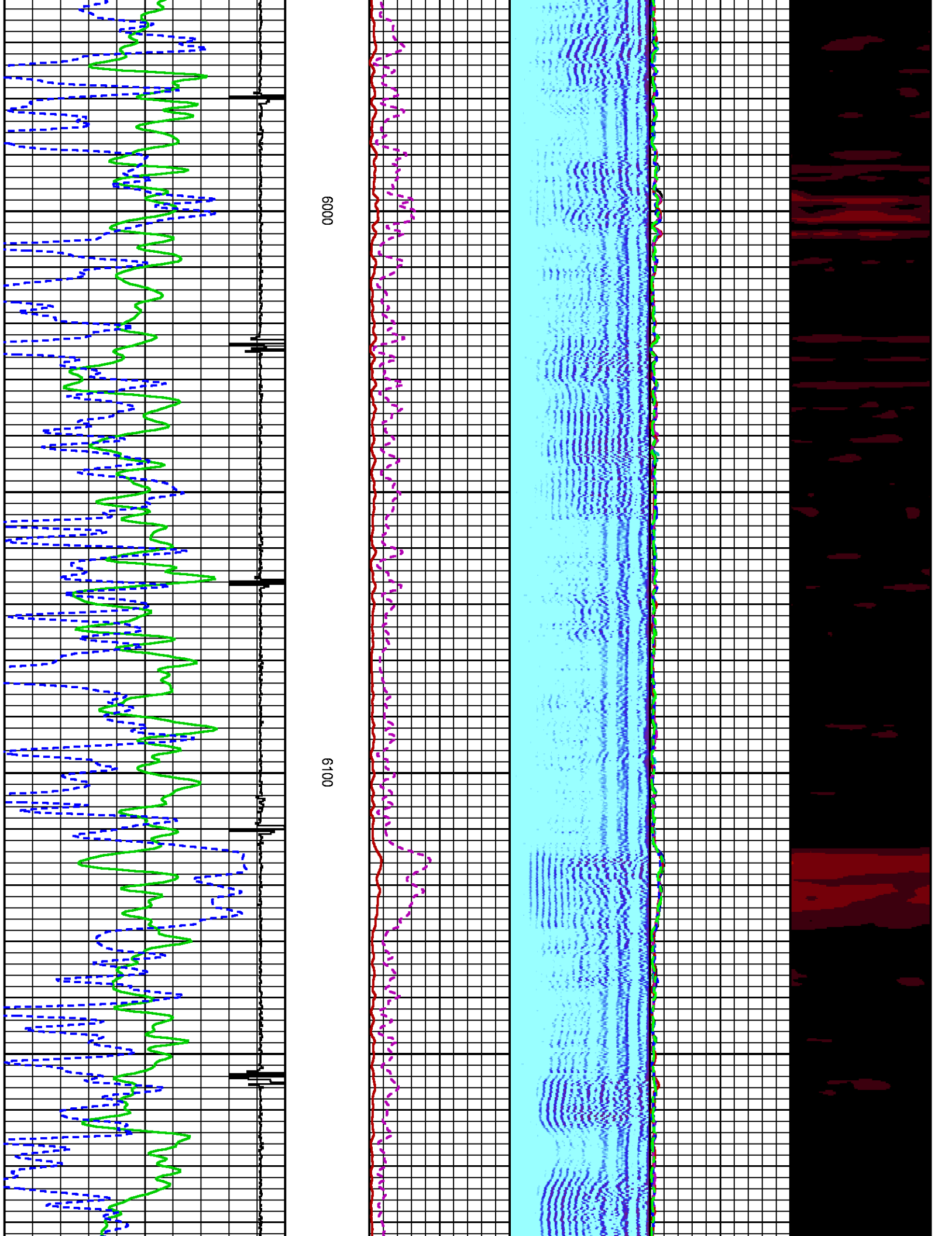


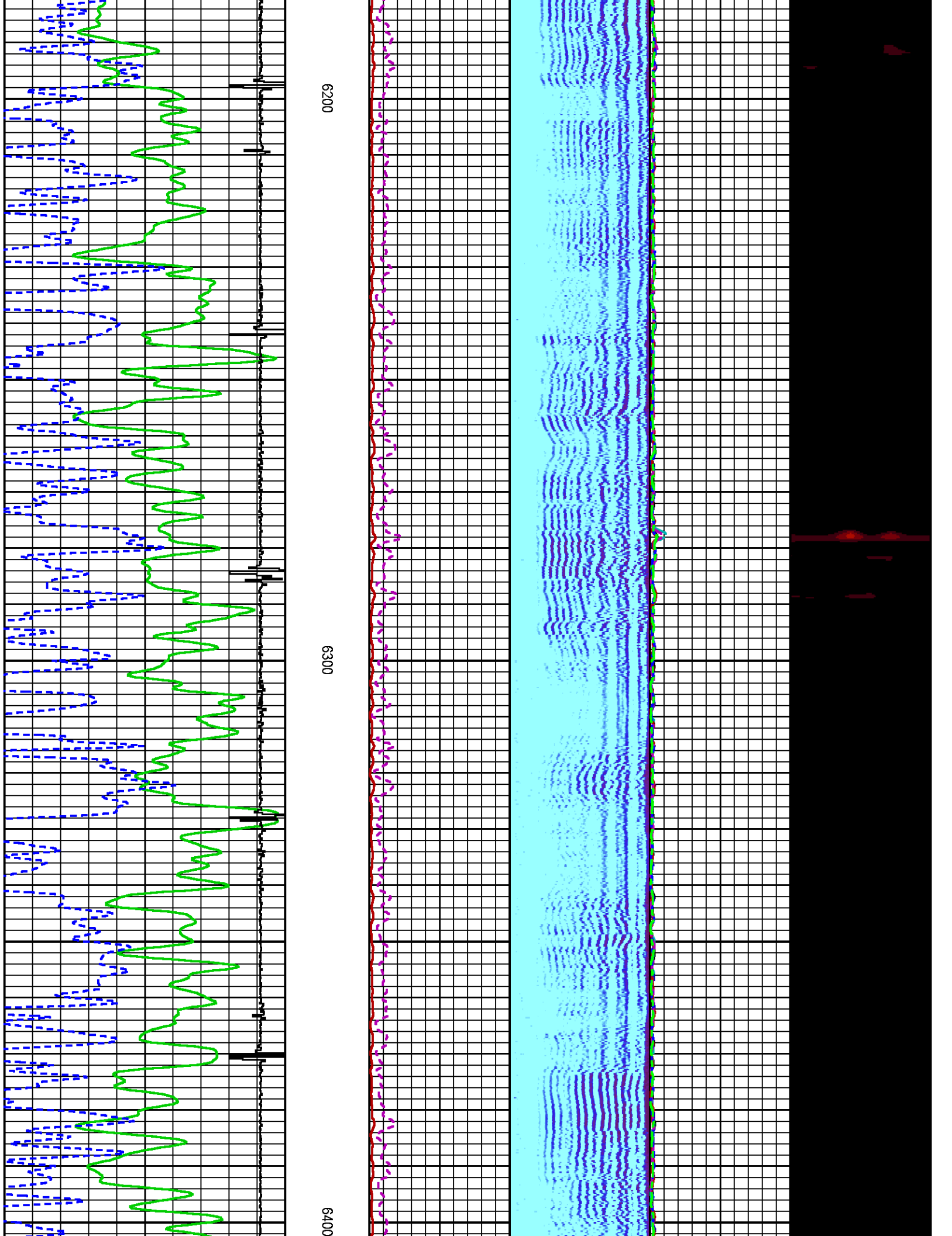


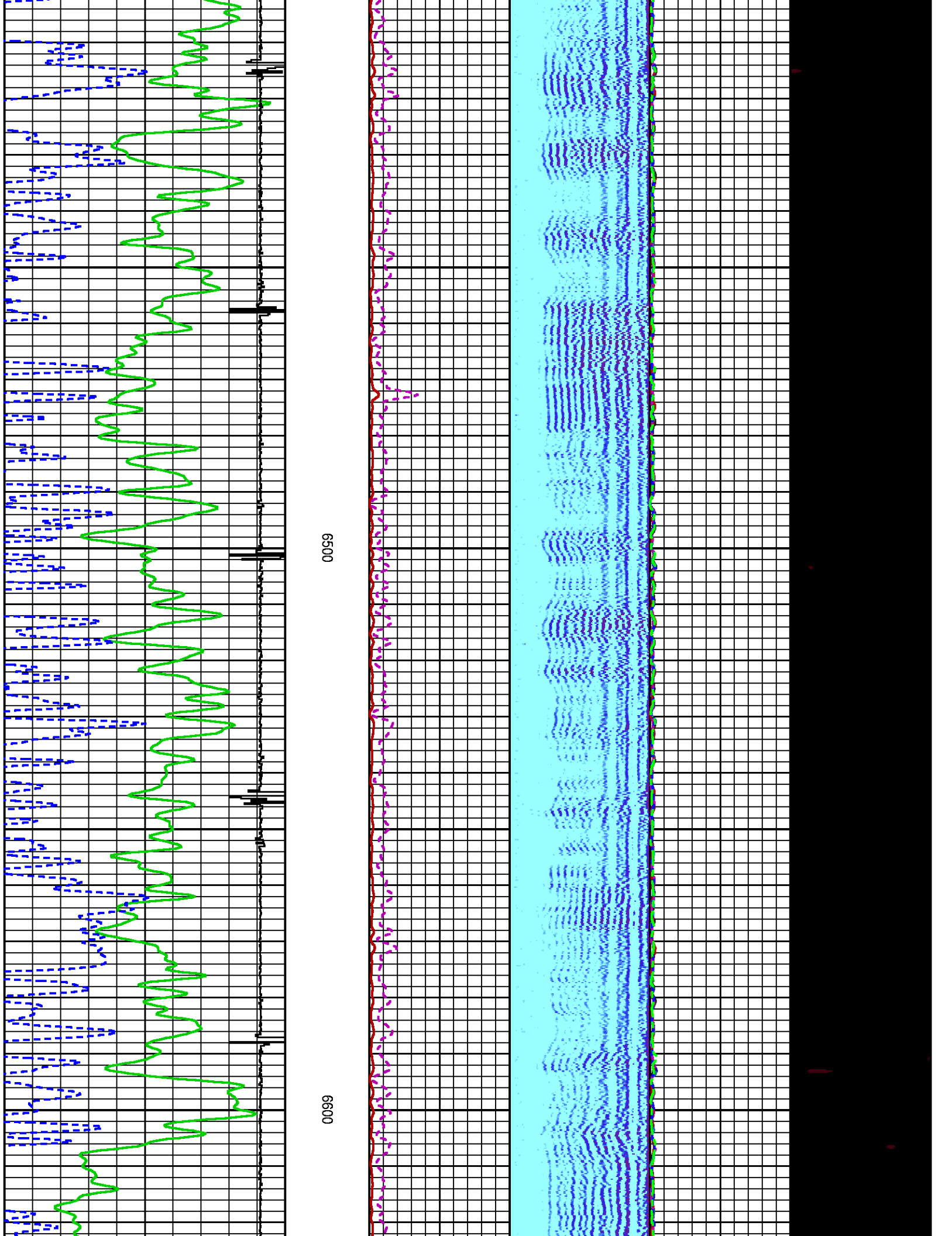


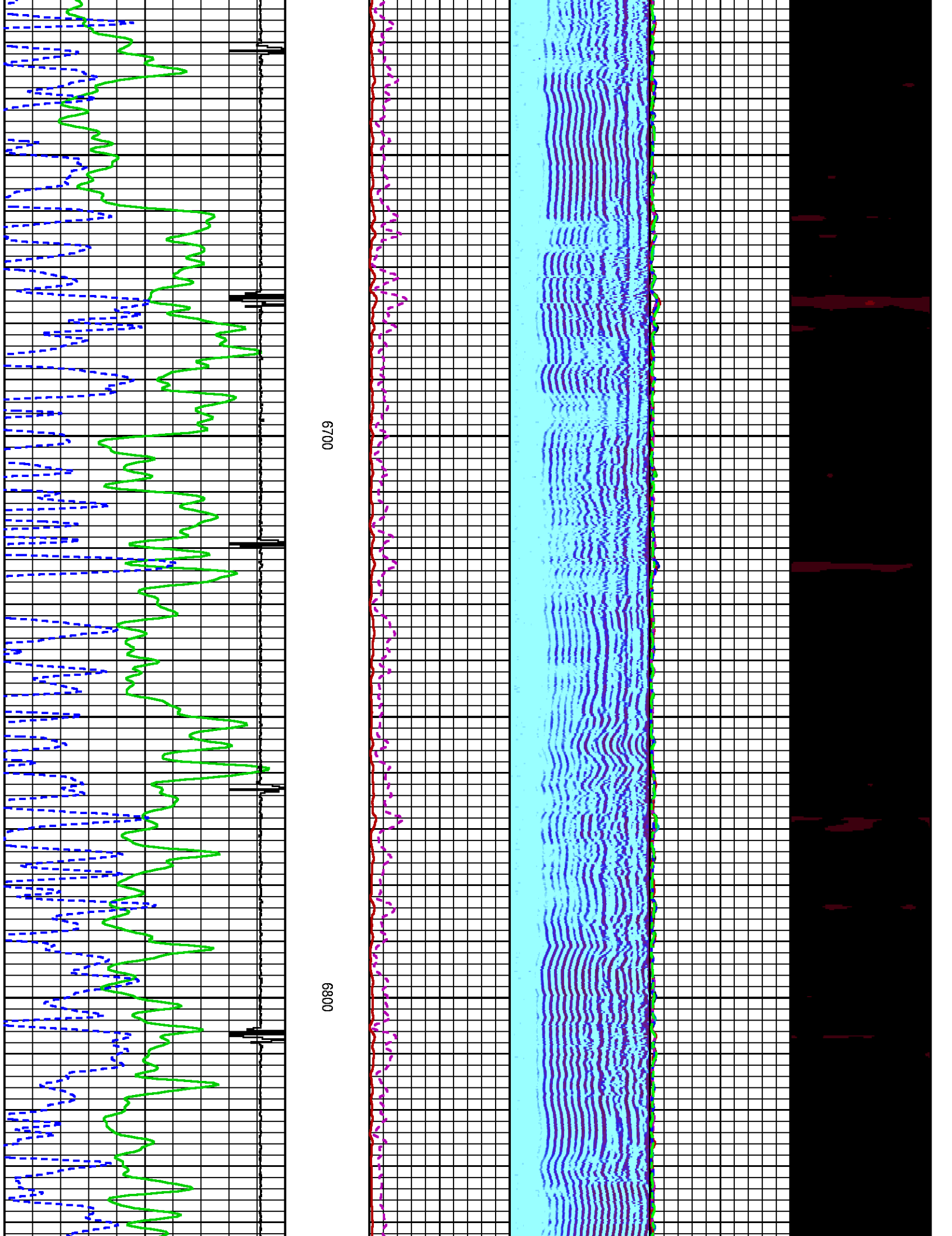




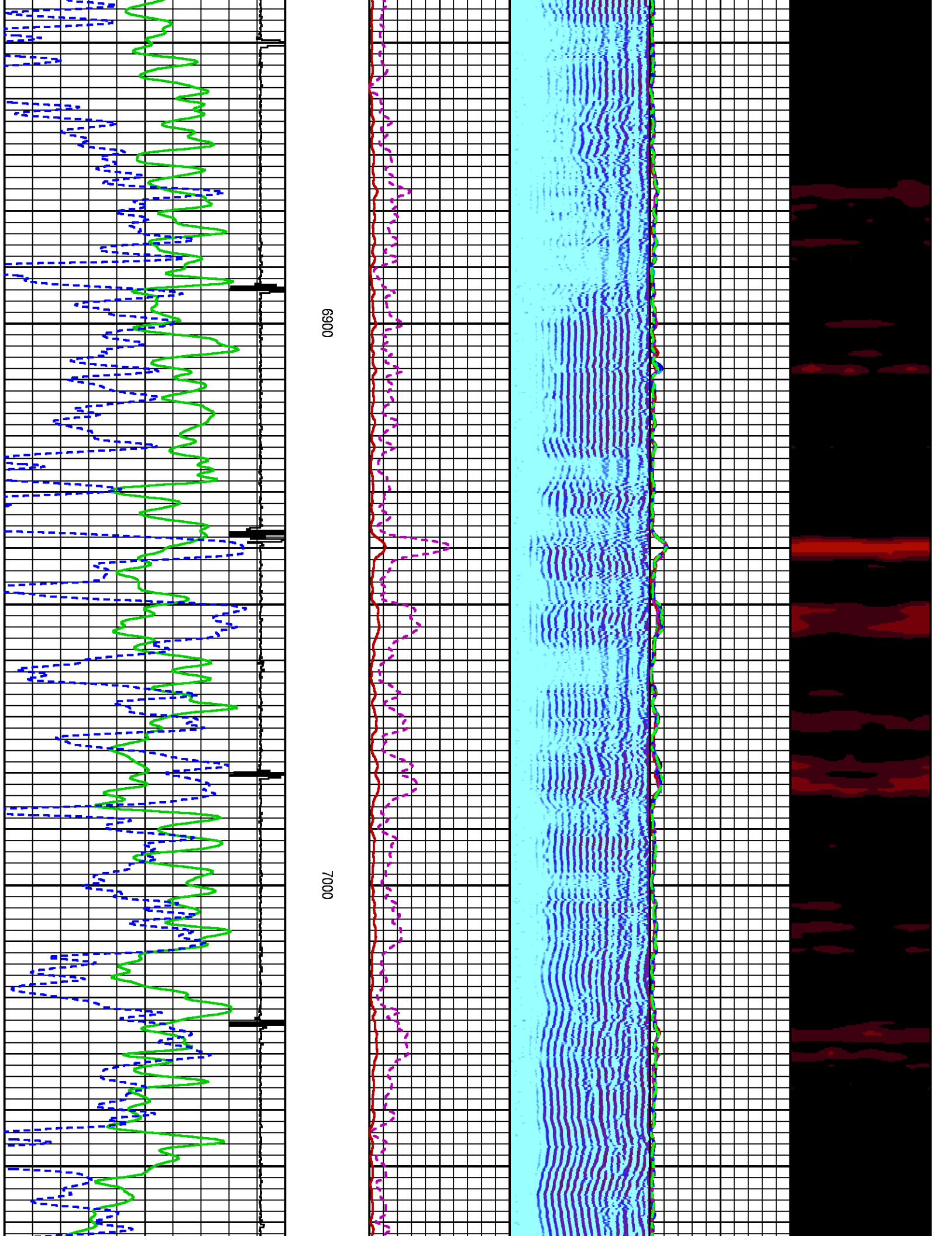


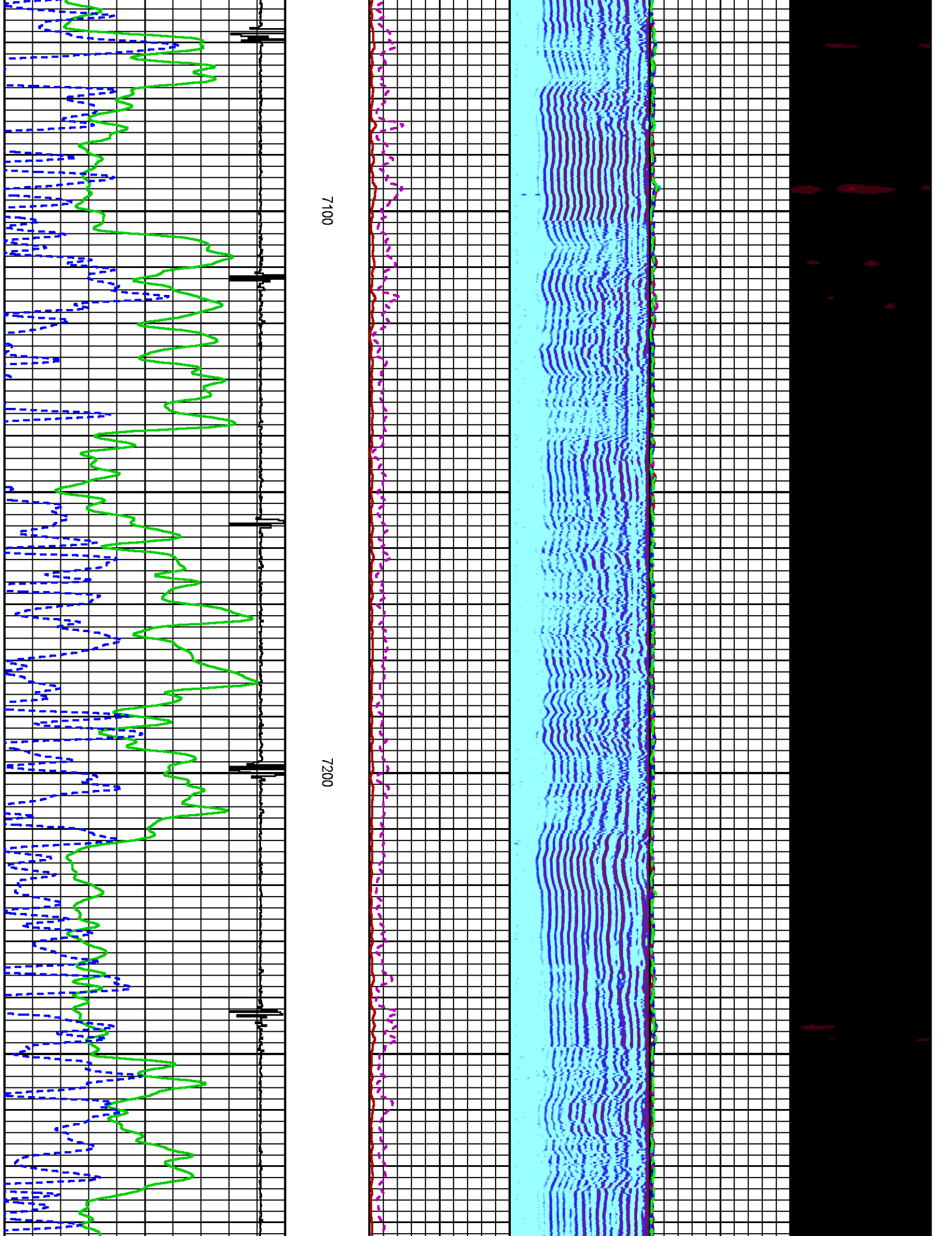


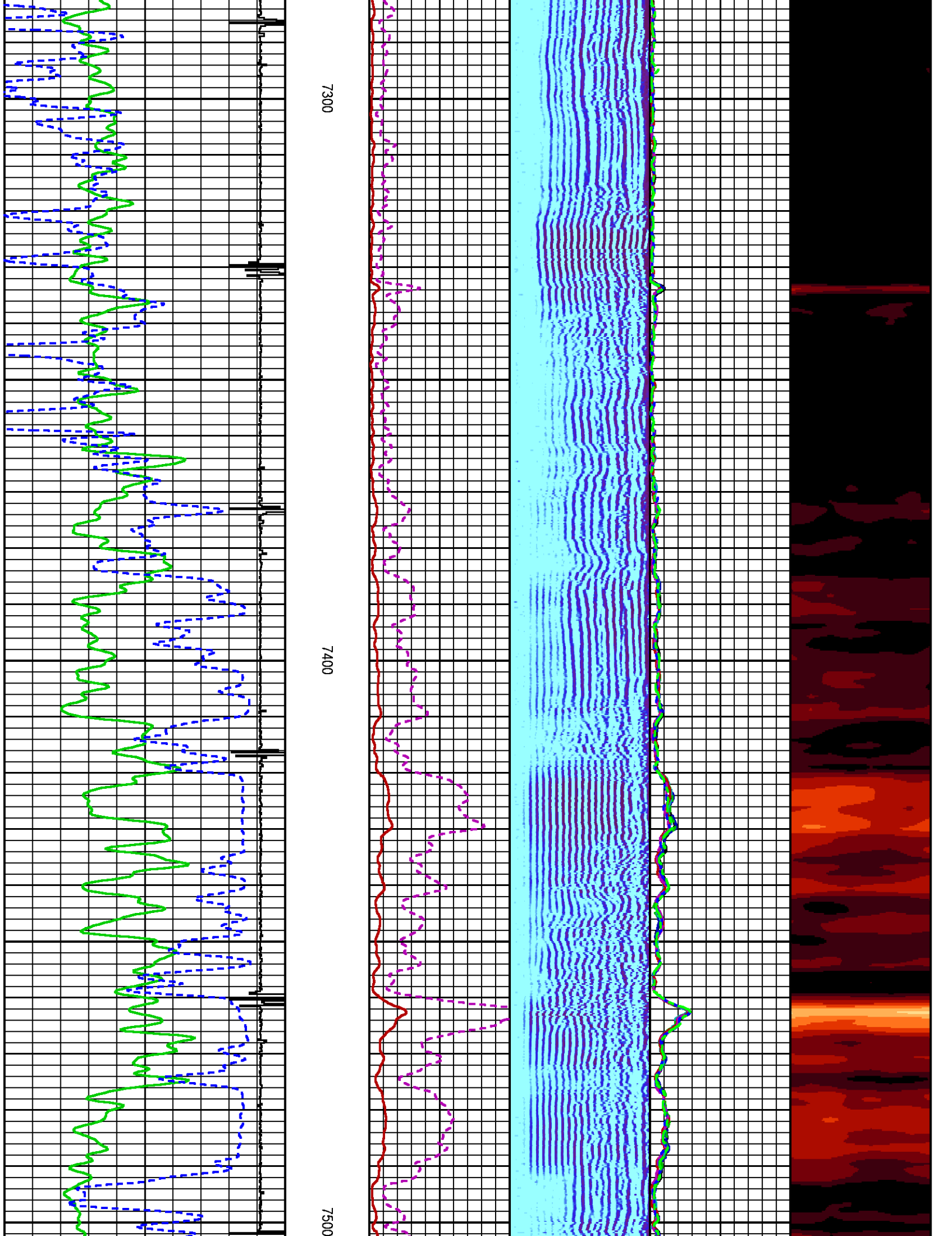


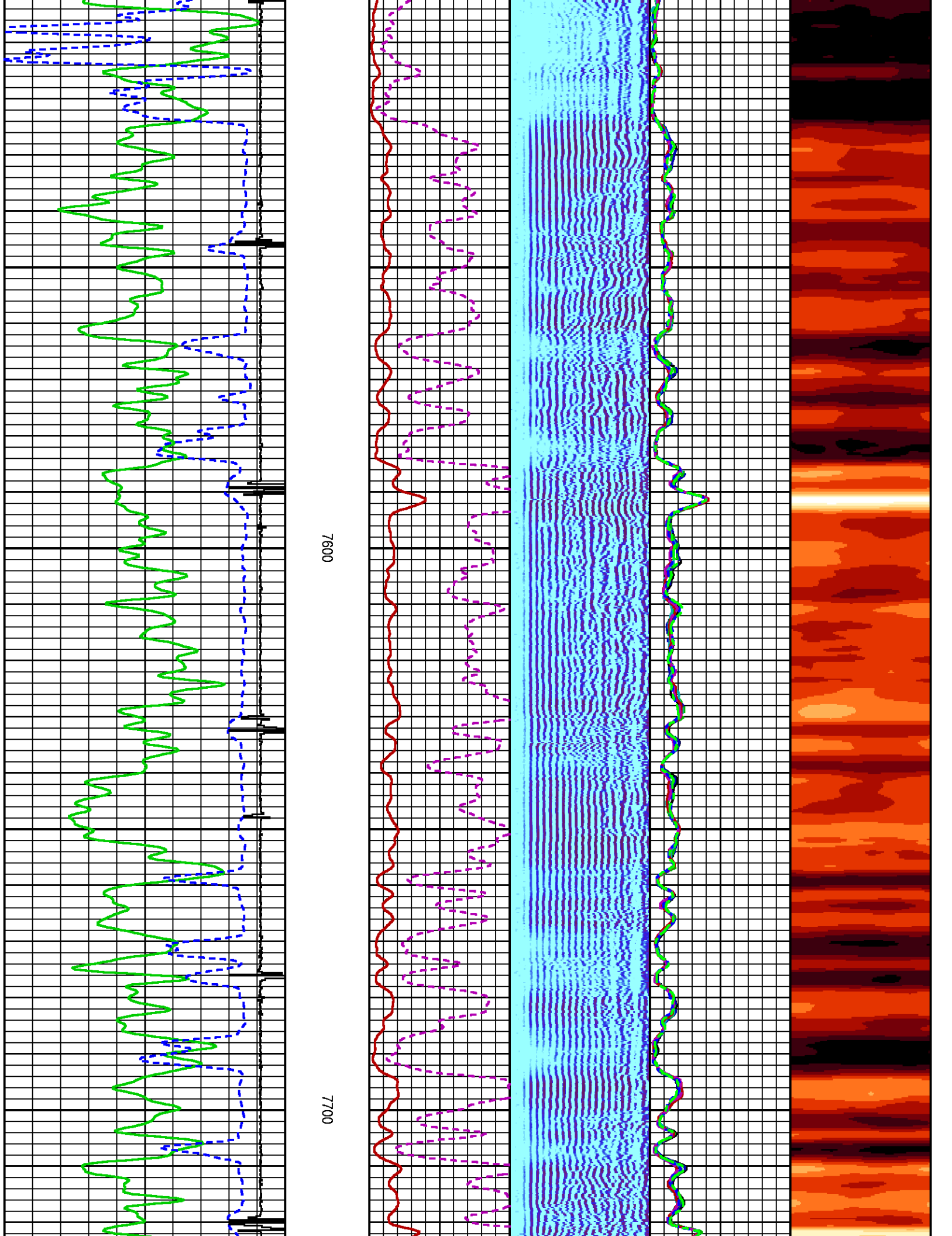




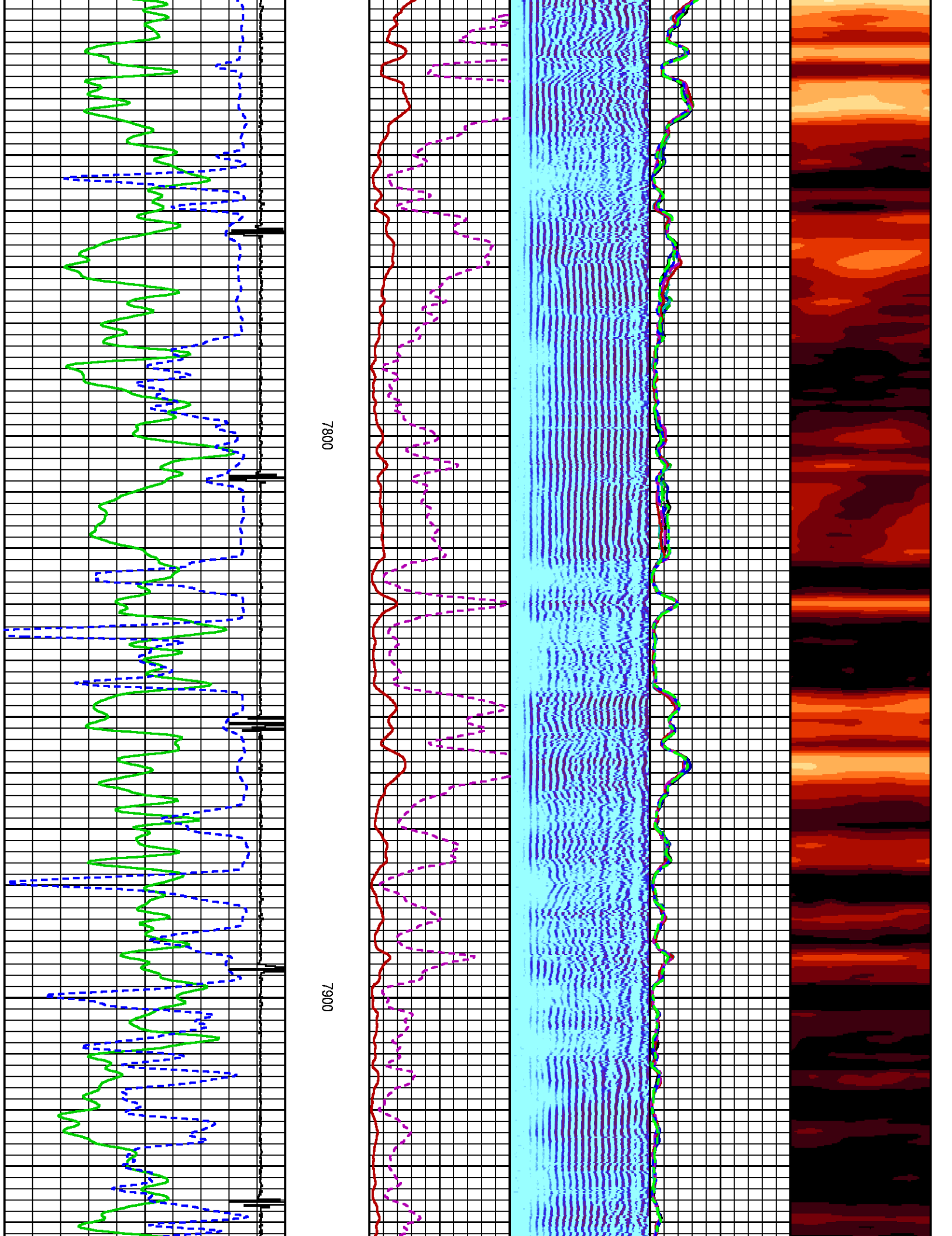


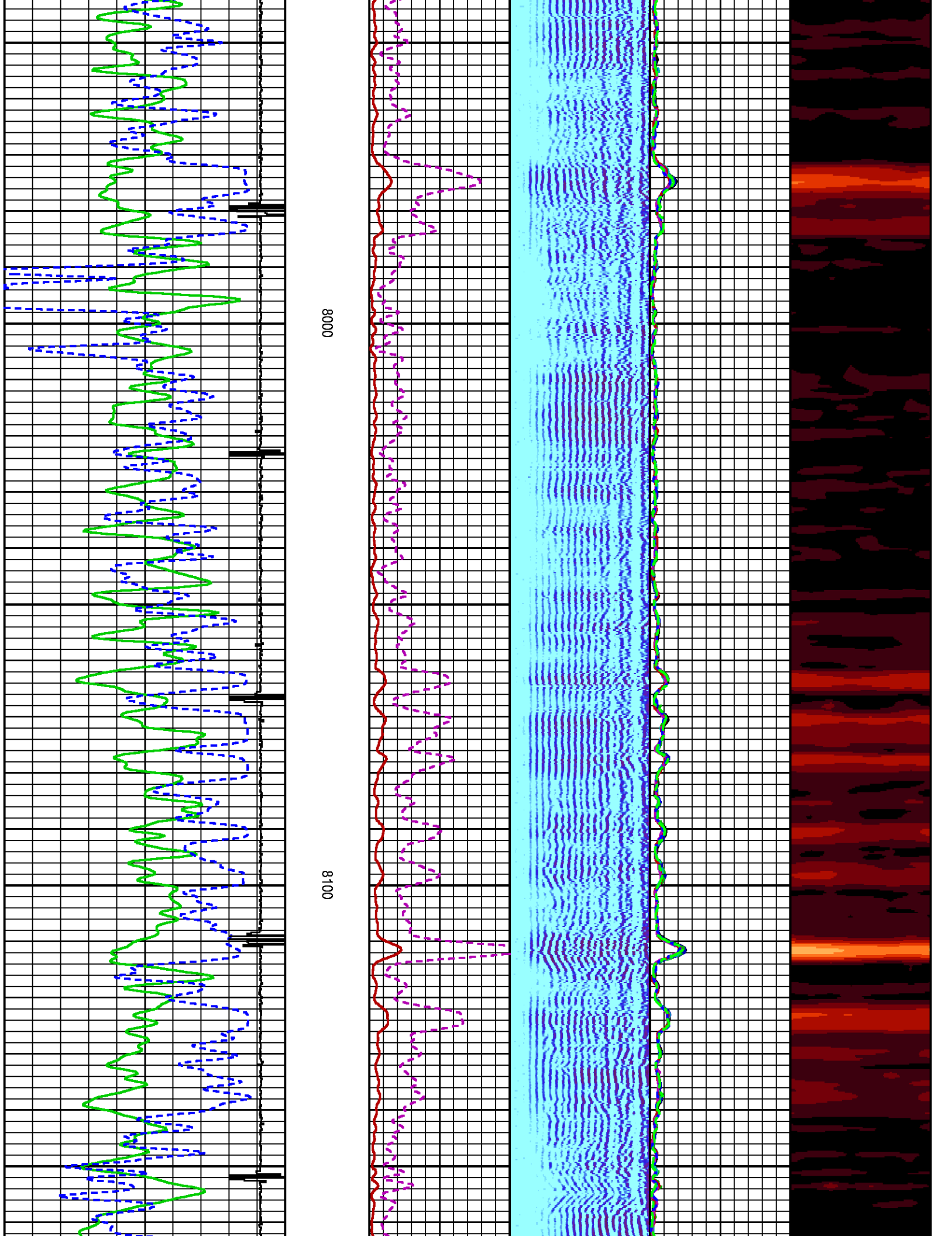


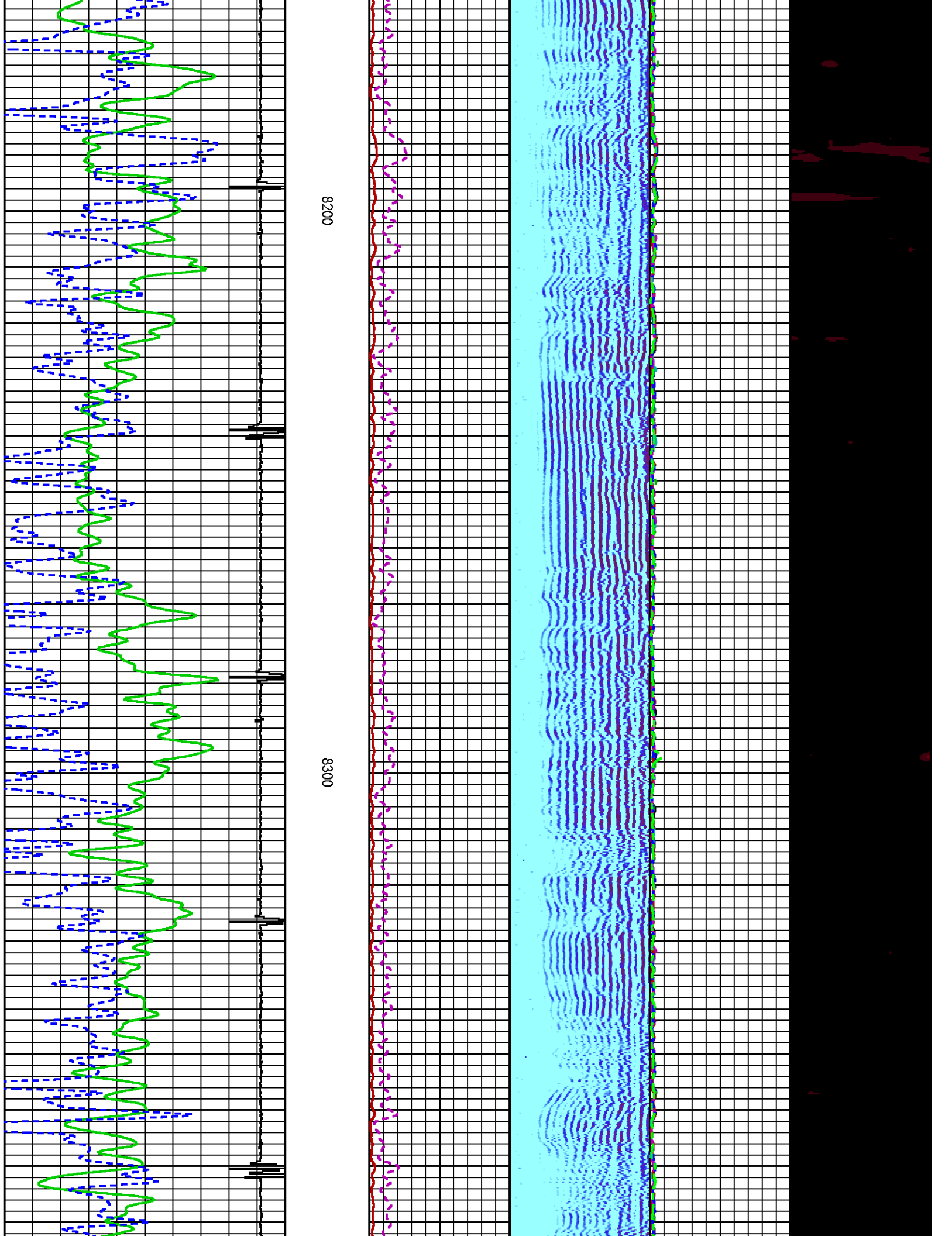


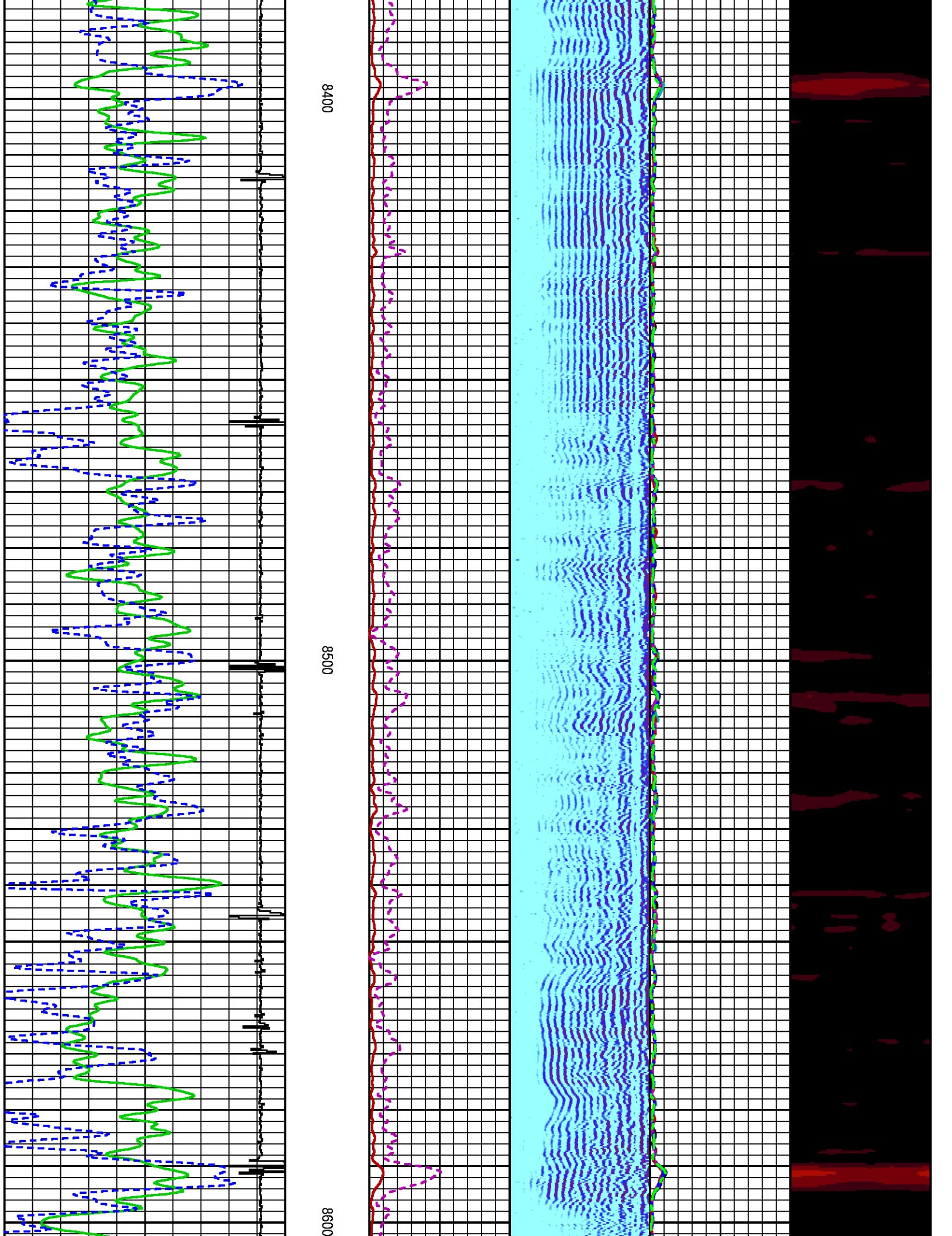




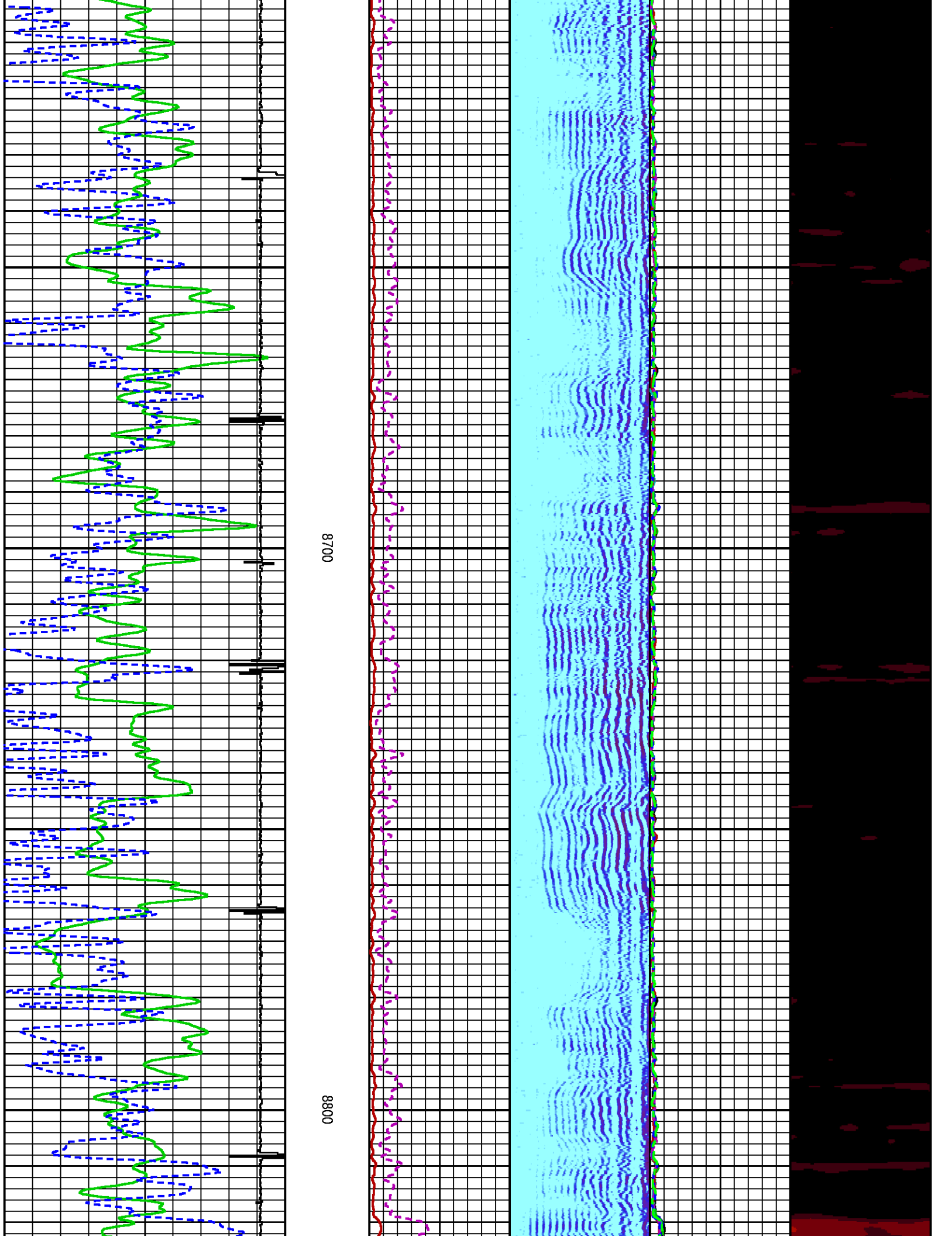


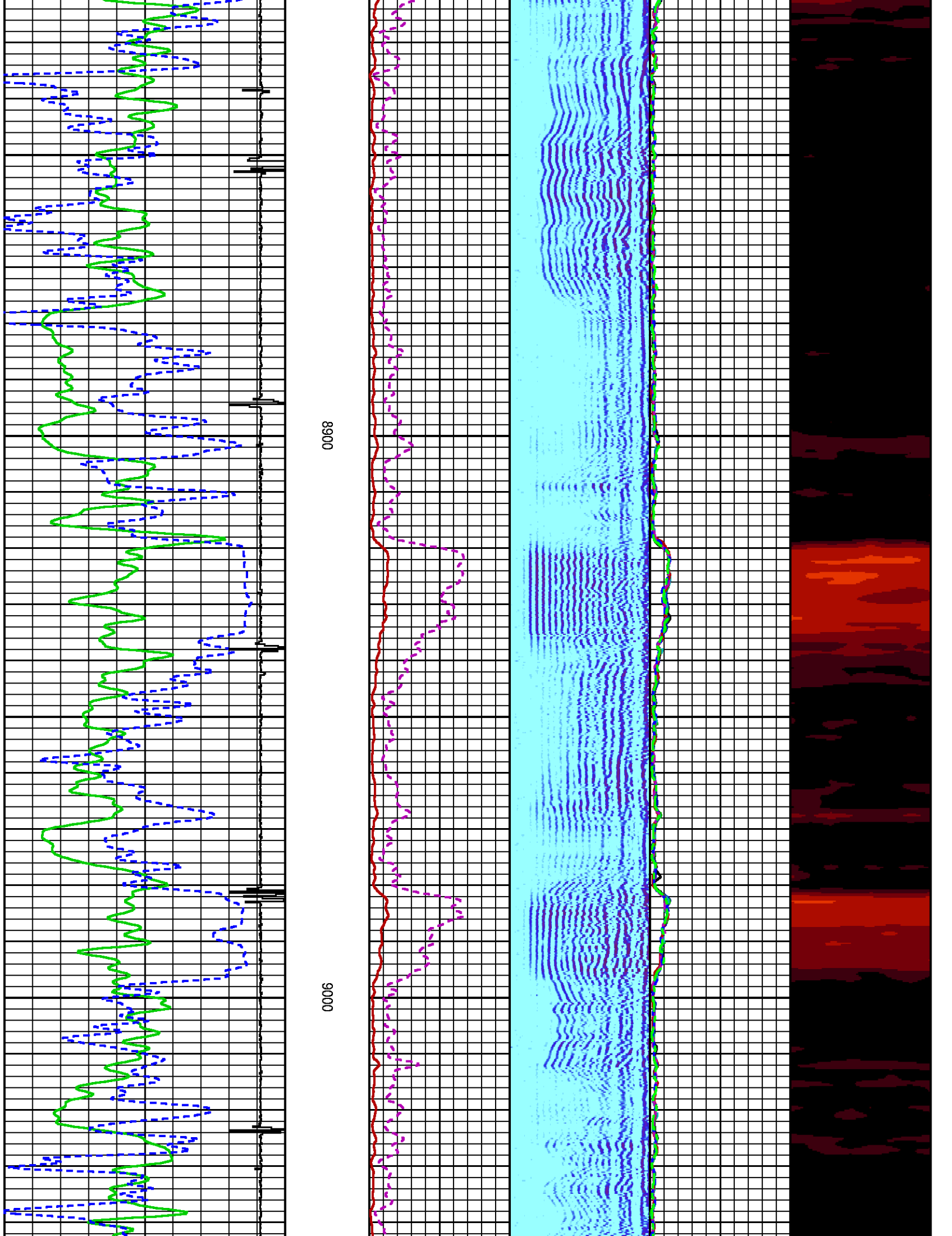


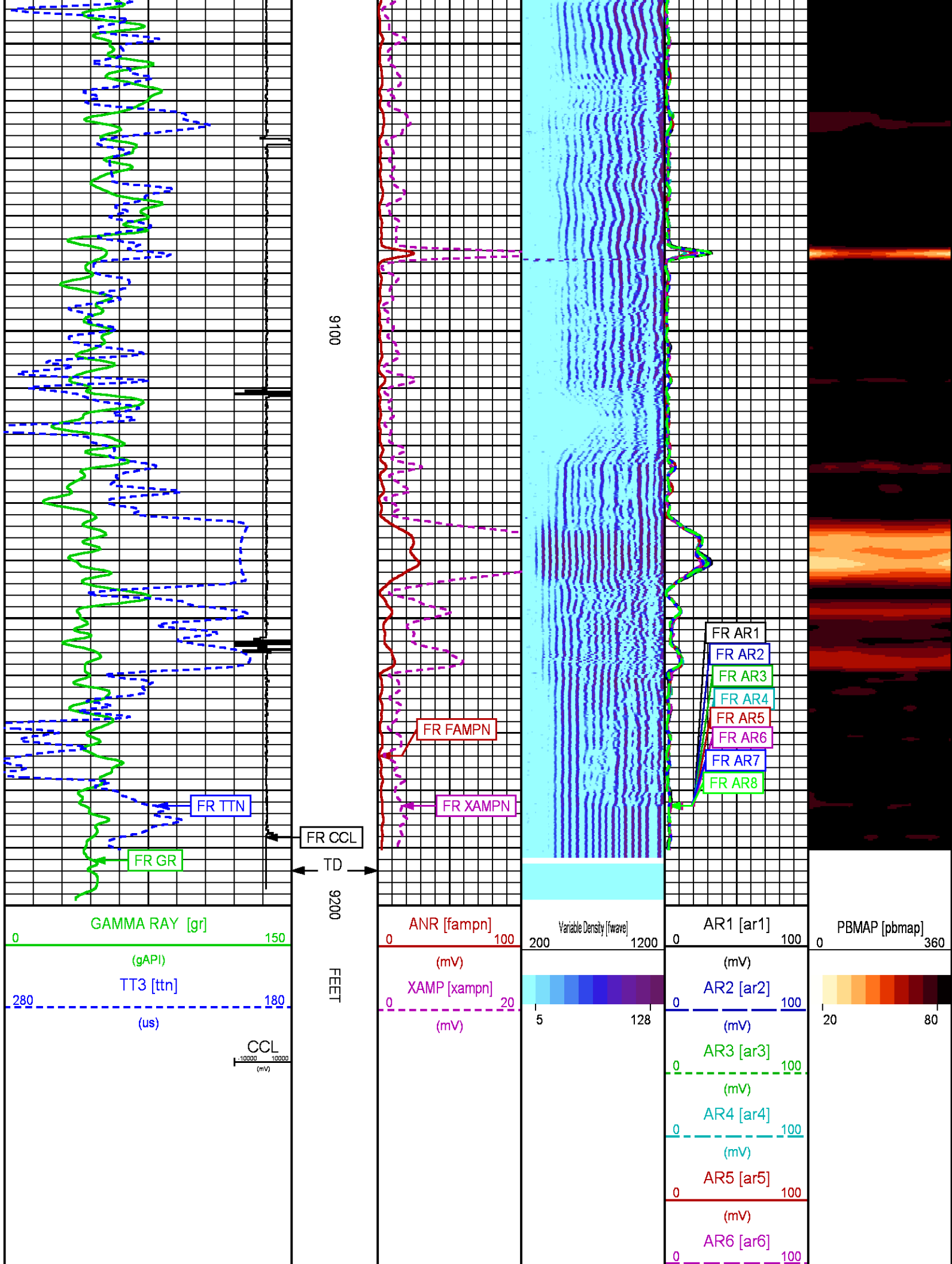


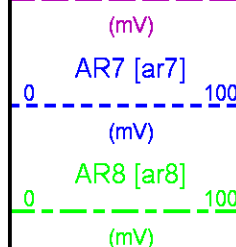












## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH106693/n012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Thu Apr 14 08:12:41 2016

UNIT #: 3880TA HL6670

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

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	1.64	2.16	2.08	2.09	1.71	1.94	1.77	1.93	2.08	4.83	0.03
AMP FLUID (mV)	66	66	66	66	67	66	65	65	65	89	70
TT (us)	218	217	217	217	217	217	217	217	218	325	218
M FACTOR	1.55	1.57	1.56	1.56	1.53	1.57	1.58	1.59	1.59	1.79	1.43

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Fri Apr 15 07:59:47 2016

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.55	-0.83	-0.51	-0.42	-0.65	-0.68	-0.55	-0.48	-0.70	-1.74	-0.11
AMP AIR	0.31	1.01	0.61	0.88	0.87	1.17	0.82	1.00	0.95	2.36	100.34

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.43	0.00	1.00

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871506

DATE/TIME PERFORMED: Wed Apr 13 13:13:20 2016

UNIT #: 3880TA HL6670

CALB JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	48.80	209.56	160.8	0.933	45.53	195.53	150



# GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871506

DATE/TIME PERFORMED: Wed Apr 13 13:16:19 2016

UNIT #: 3880TA HL6670

VERI JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	47.42	202.67	0.933	44.25	189.11	144.86
						140.00 160.00

## TEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871506

DATE/TIME PERFORMED: Sun Nov 15 14:02:37 2015

UNIT #: 3880TA HL6670

	T(0)	T(1)	T(2)	T(3)
Corr Coeff for Temp	0.000000E+00	1.000000E-01	0.000000E+00	0.000000E+00

## INSTRUMENT CONFIGURATION

Source File: /dat1a/CH106693/CBL-tdg

### CABLEHEAD

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

### RADIAL BOND TOOL

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

### RAL GR/TEMP/CCL/CHV DETECTOR

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

20.38'

NEAR RCVR 11.17'

FAR RCVR 10.21'


CCL 5.79'

Measure Point: 1.67': GR  
Measure Point: 0.17': TEMP

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:
	WELL <u>FEDERAL RU 413-6</u>		<u>CH106693</u>
	FIELD <u>RULISON</u>		API NO:
	COUNTY <u>GARFIELD</u>	STATE <u>CO</u>	<u>05045226020000</u>
LOCATION: SHL: 1936' FSL & 521' FWL BHL: 703' FSL & 1268' FWL		ELEVATIONS: KB 7009 FT DF GL 6895 FT	S6 T7S R93W RU 13-6 PAD H&P 318
SEC <u>6</u> TWP <u>7S</u> RGE <u>93W</u>		DATE <u>16-APR-2016</u>	