



FILE NO:	COMPANY
OH108950	TEP ROCKY MOUNTAIN LLC
API NO:	WELL
05045231290000	YOUBERG RU 523-7
	FIELD
	RULISON
	COUNTY
	GARFIELD
	STATE
	COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
SEC. 7 T. 7S R. 93W	SHL: 2023 FNL & 1887' FWL	
RIG: H&P 318	BHL: 1762 FSL & 1345' FWL	RPM
PAD: RU 22-7	SEC 7 TWP 7S RGE 93W	

PERMANENT DATUM	G.L.	ELEVATION	7339 FT	ELEVATIONS: KB 7363 FT DF GL 7339 FT
LOG MEASURED FROM	K.B.	24 FT	ABOVE P.D.	
DRILL. MEAS. FROM	K.B.			

DATE	24-Aug-2016	
RUN	1	TRIP
SERVICE ORDER	US108950J	
DEPTH DRILLER	9621 FT	
DEPTH LOGGER	9614 FT	
BOTTOM LOGGED INTERVAL	9612 FT	
TOP LOGGED INTERVAL	24 FT	
TIME STARTED	7:30	
TIME FINISHED	10:30	
OPERATOR RIG TIME	3 HOURS	
TYPE OF FLUID IN HOLE	WATER	
FLUID DENSITY	NA	
FLUID SALINITY	NA	
FLUID LEVEL	58 FT	
LOGGED CEMENT TOP	SEE LOG	
WELLHEAD PRESSURE	0 PSI	
MAXIMUM HOLE DEVIATION	NA	
NOMINAL LOGGING SPEED	100 F/MIN	
MAX. RECORDED TEMP.	231 DEGF	
REFERENCE LOG	NONE	
REFERENCE LOG DATE	NA	
EQUIP. NO.	HL-6670	LOCATION
RECORDED BY	P. EDWARDS/M. MENTZER	
WITNESSED BY	B. OAKS	

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
8.75 IN	1124 FT	9621. 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	P-110	24 FT	9621 FT

### REMARKS

RUN 1 TRIP 1: ALL DATA ON THIS LOG IS SHIFTED USING THE CCL CURVE TO PUT THE WELLHEAD (TOP CCL MARK) ON DEPTH WITH GROUND LEVEL ELEVATION AT THE CLIENT'S REQUEST.

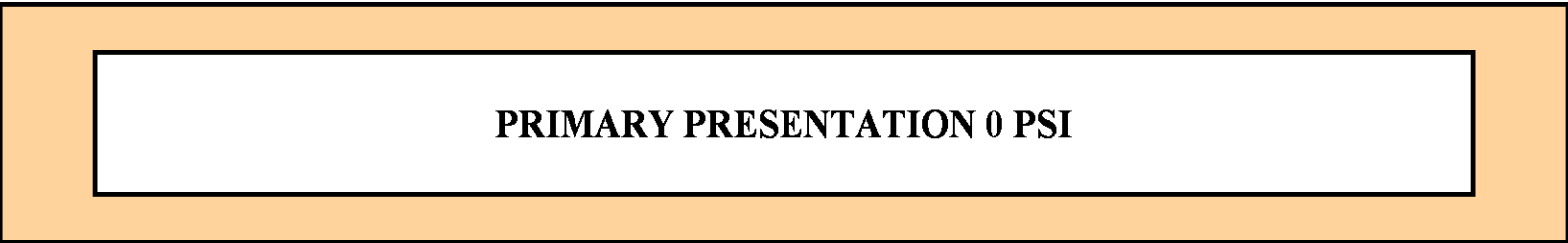
THE AMOUNT OF LINEAR SHIFT IS 14 FEET

LOGGED WITH ZERO PSI AT WELLHEAD

BHT = 231 deg F

SJ = 5534' - 5556'

EQUIPMENT DATA					
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10154957	CENTRALIZED
1	1	GR/CCL	1355XA	12670181	CENTRALIZED



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

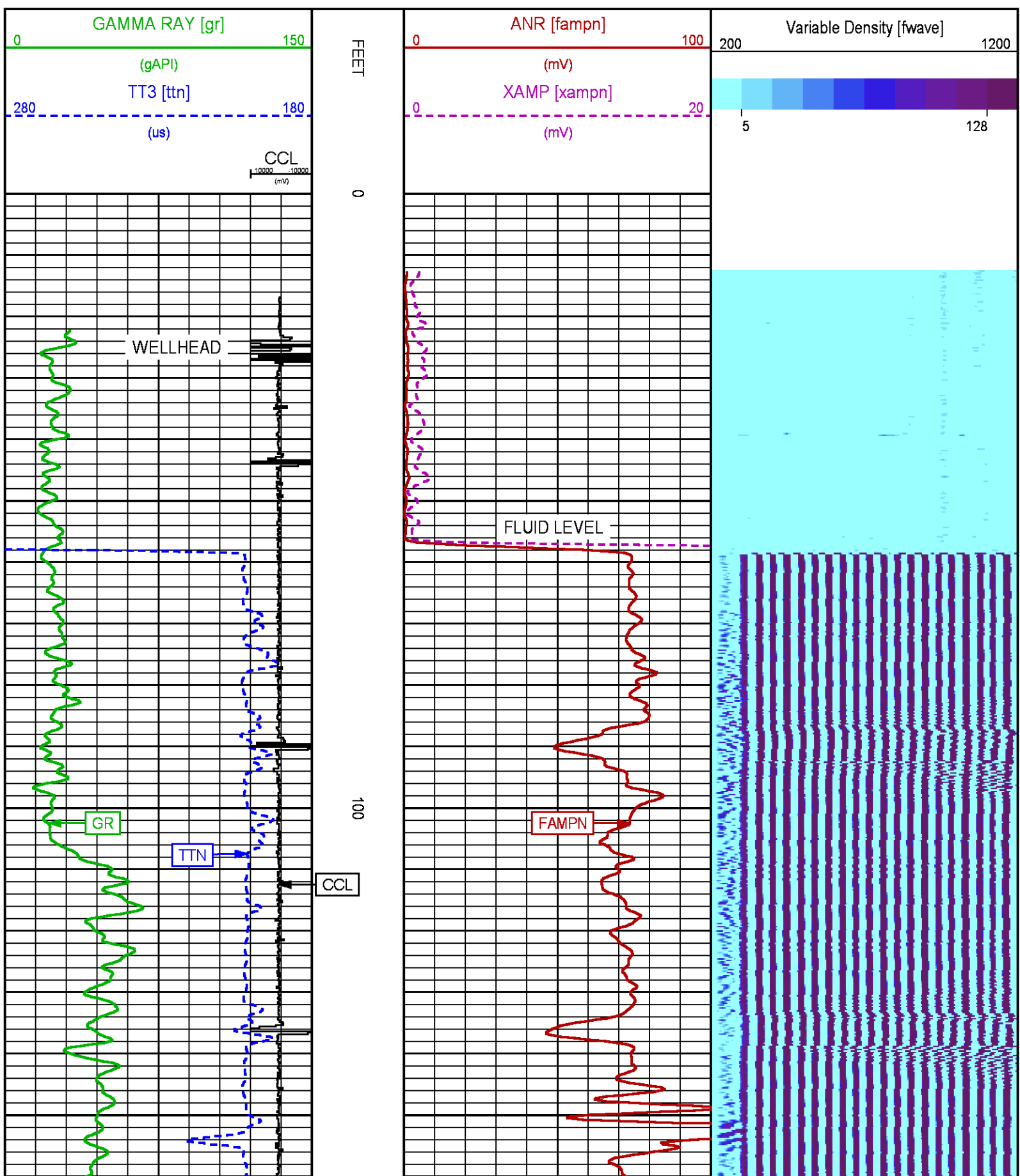
Plotted: Wed Aug 24 12:18:24 2016

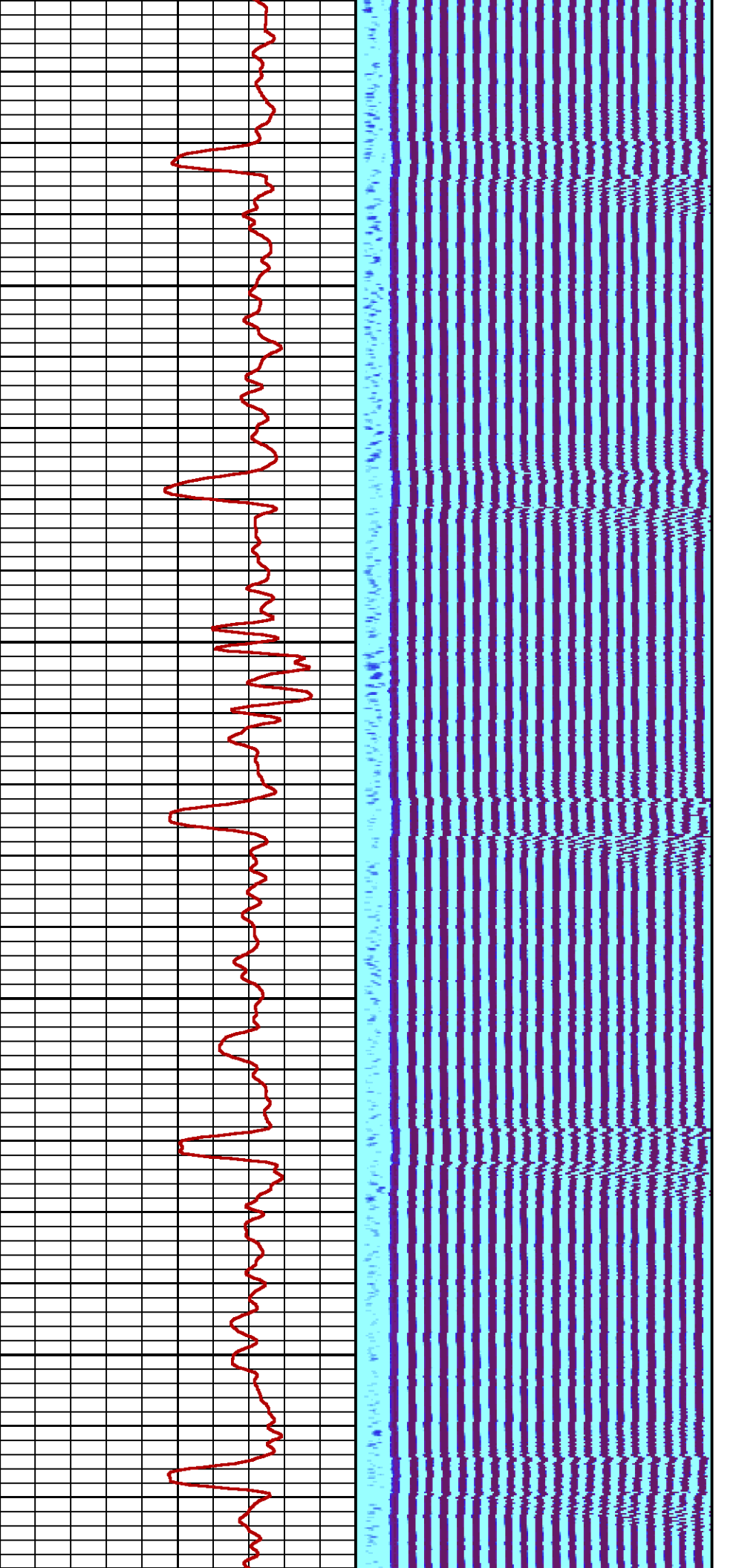
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH108950/n012g02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 8.750 ft BOTTOM DEPTH: 9612.750 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
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*)	172	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*)	-69	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	Aug 24 08:46:15 2016	CASING COLLAR LOCATOR
F1:FAMPN	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 24 08:46:15 2016	FAR WAVE FORM
F1:GR	Aug 24 08:46:15 2016	GAMMA RAY
F1:TTN	Aug 24 08:46:15 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 24 08:46:15 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				

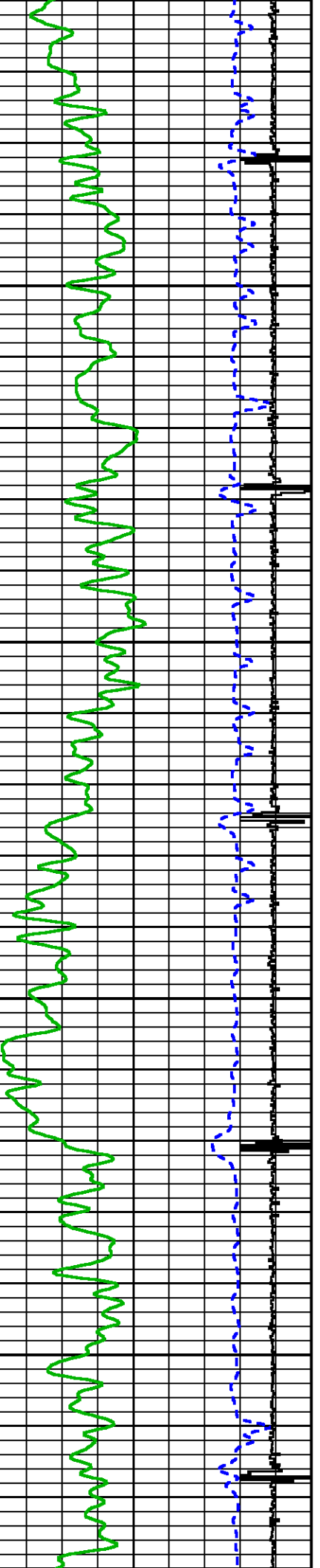
Presentation : cpu100.dat1a/CH108950/n012g02MAIN.vppl [5 7100 Scale]  
Plot Interval : 0 - 9625.5 Feet  
  
Data File 1 : F1 : cpu100:/dat1a/CH108950/n012g02MAIN523.xtf  
Created On : Aug 24 08:46:15 2016  
Company : TEP ROCKY MOUNTAIN LLC  
Well : YOUNBERG RU 523-7  
Field : RULISON  
File Interval : 11.5 - 9626.75 Feet  
OCT : n012g



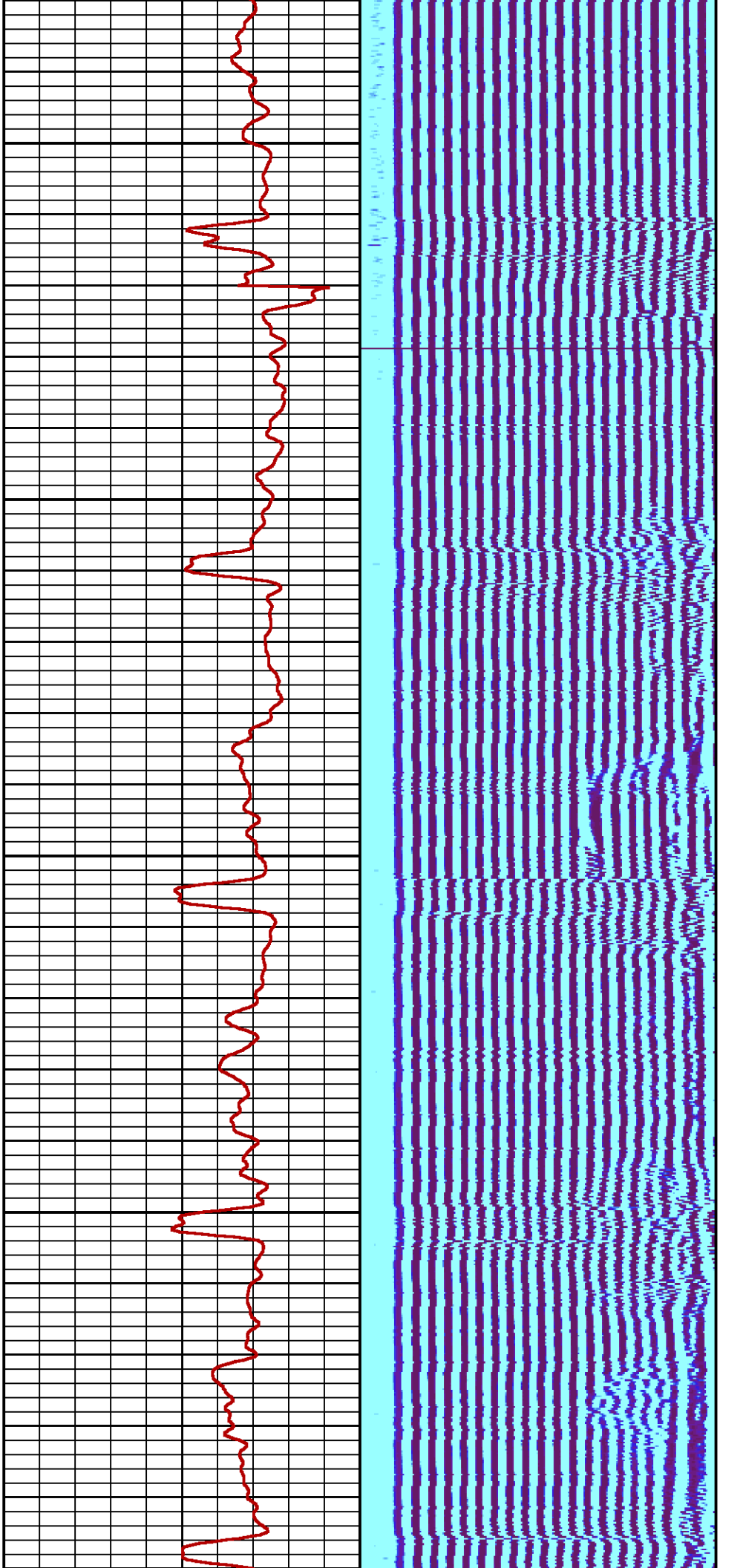


200

300



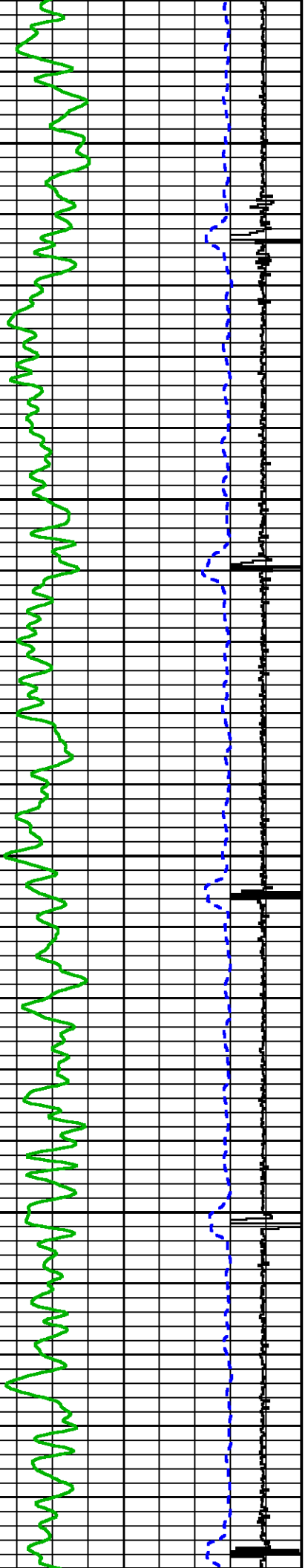


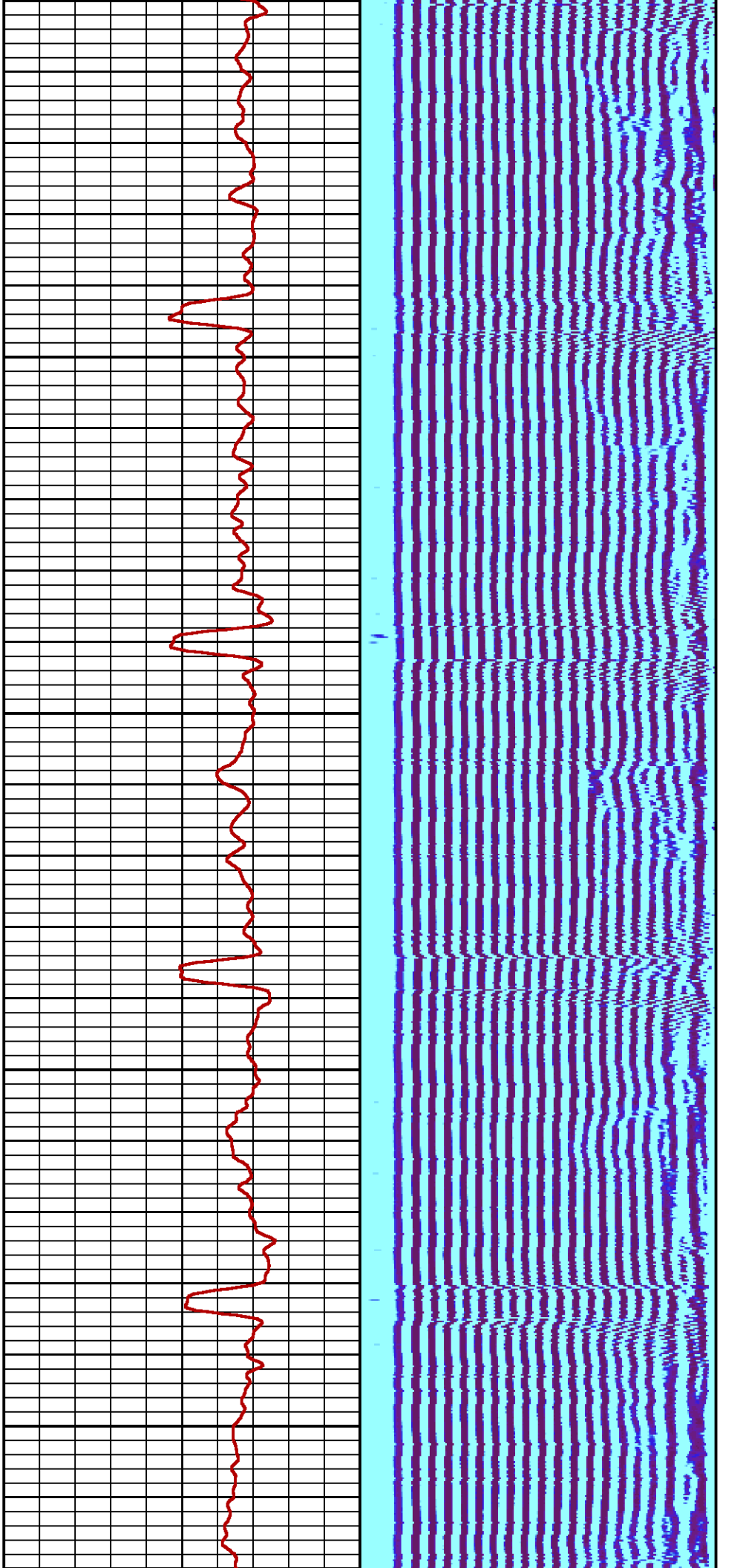


400

500

60

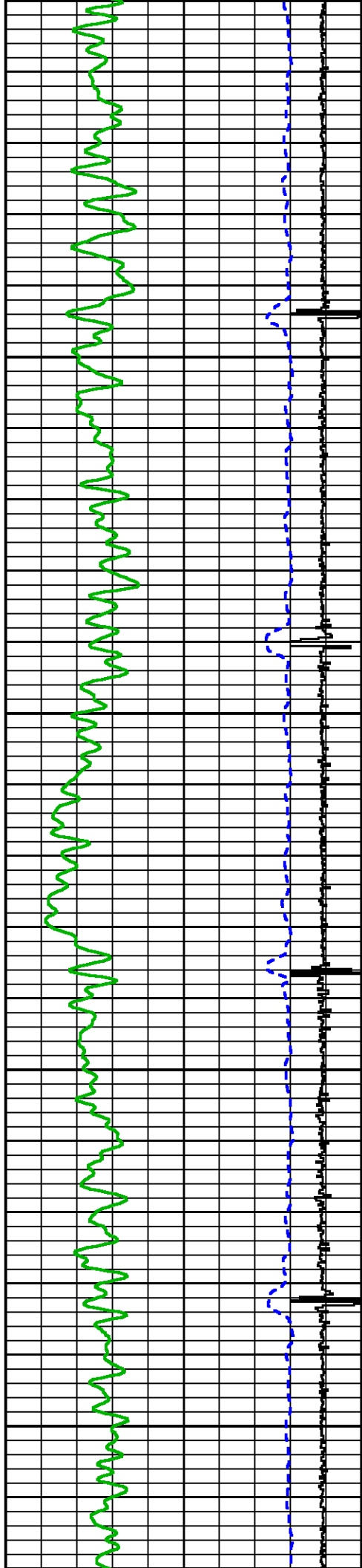


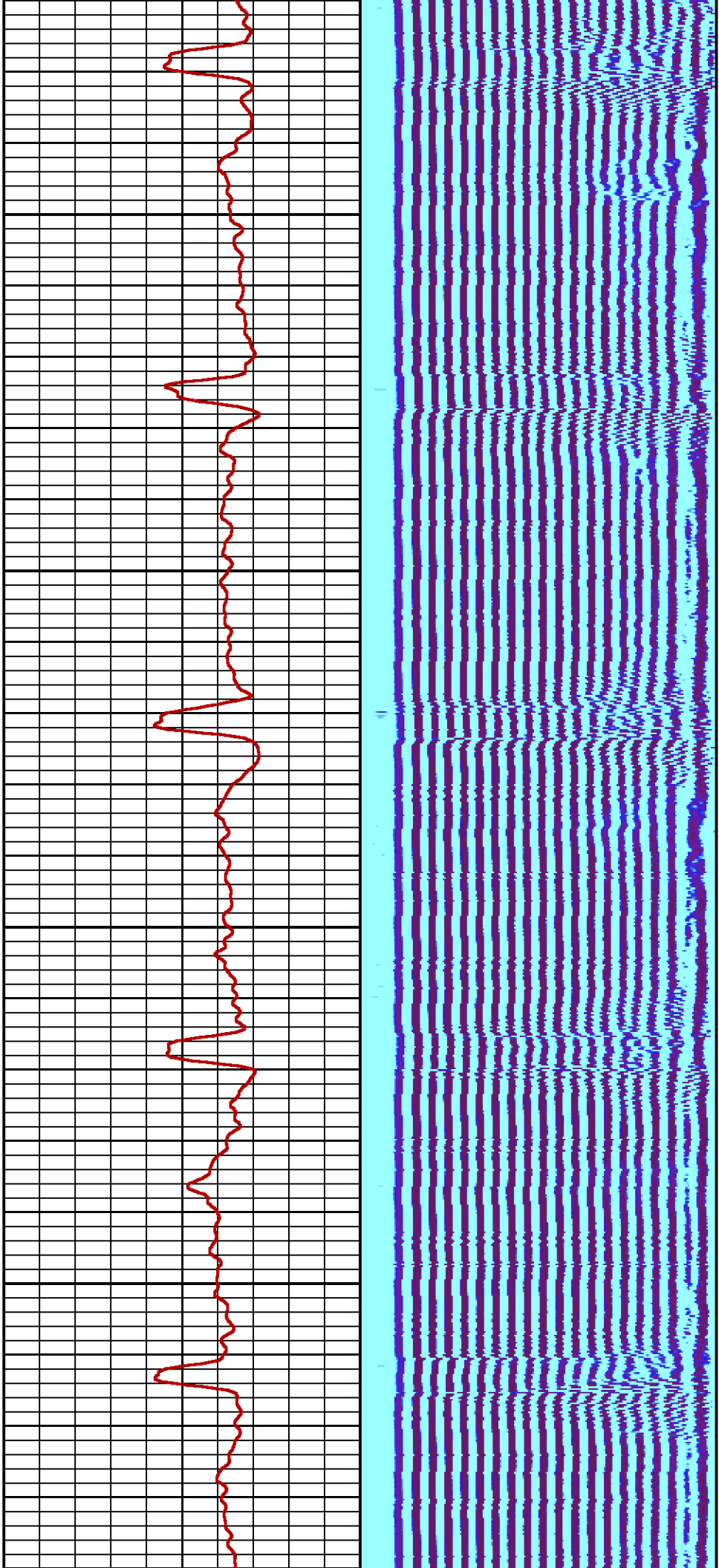


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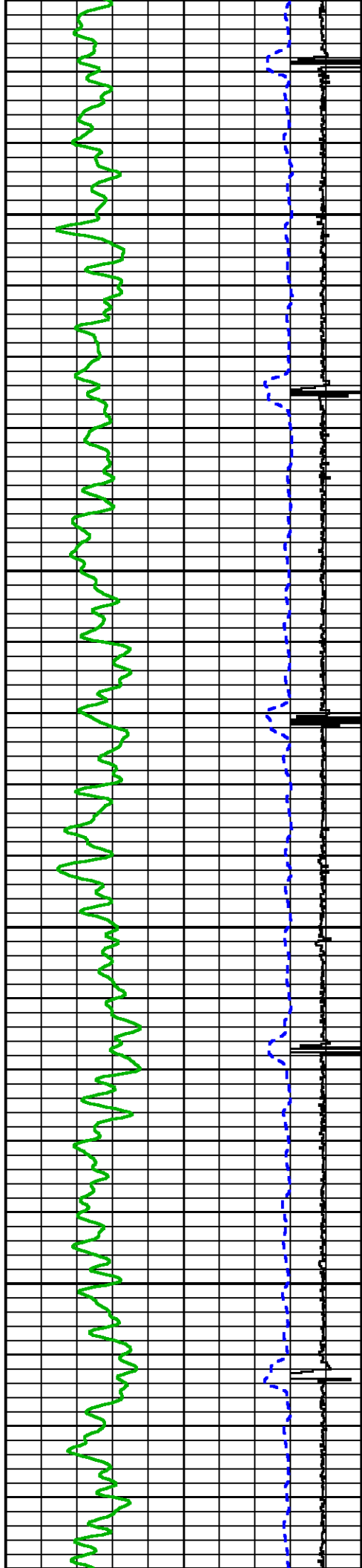
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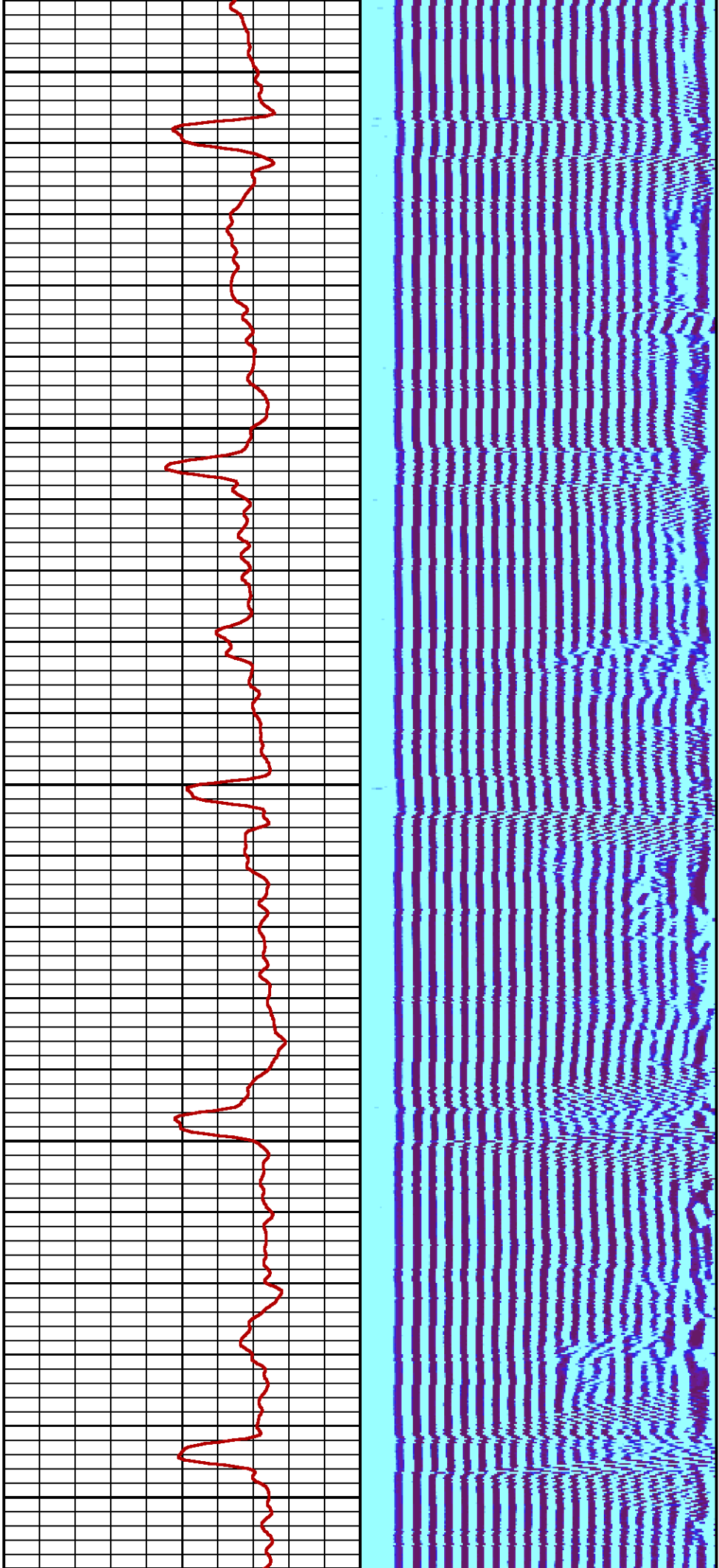




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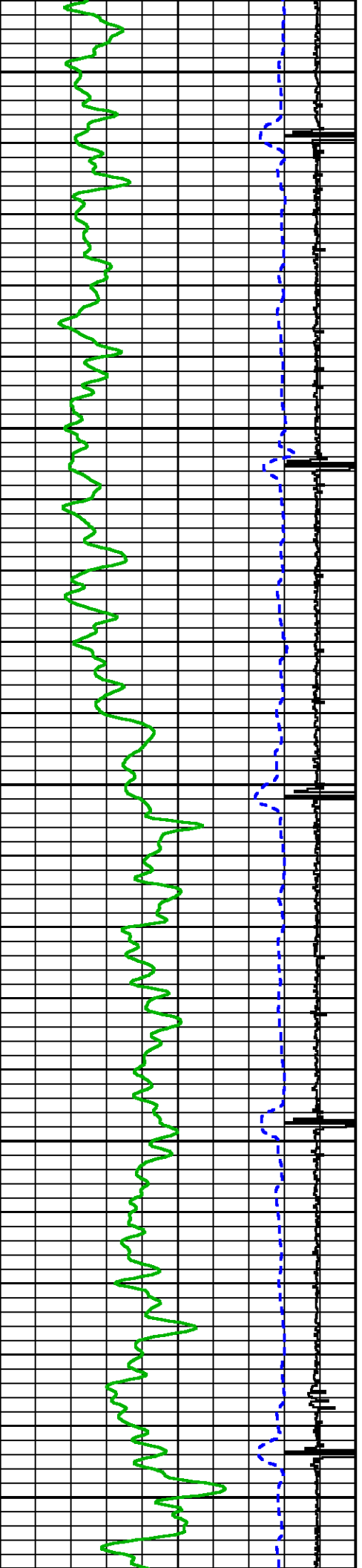
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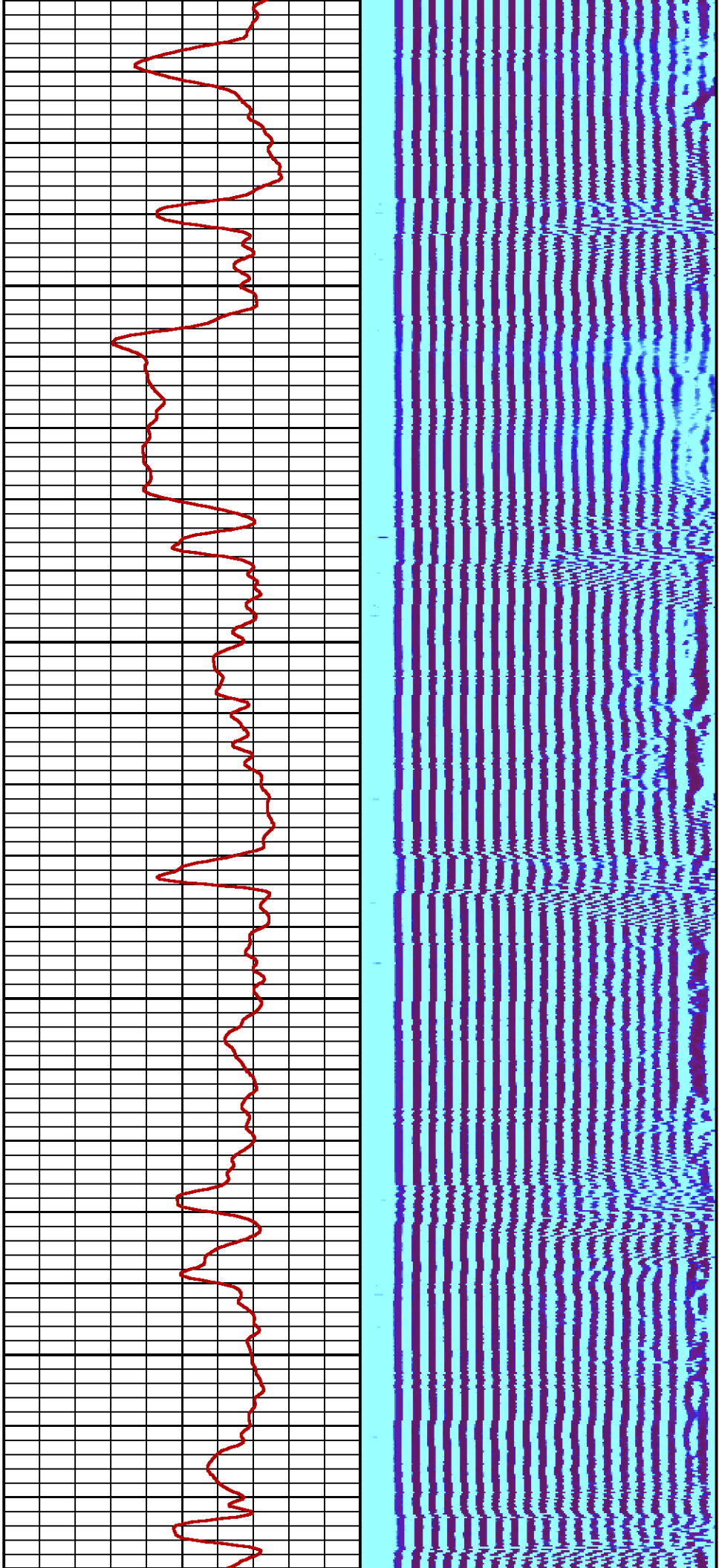


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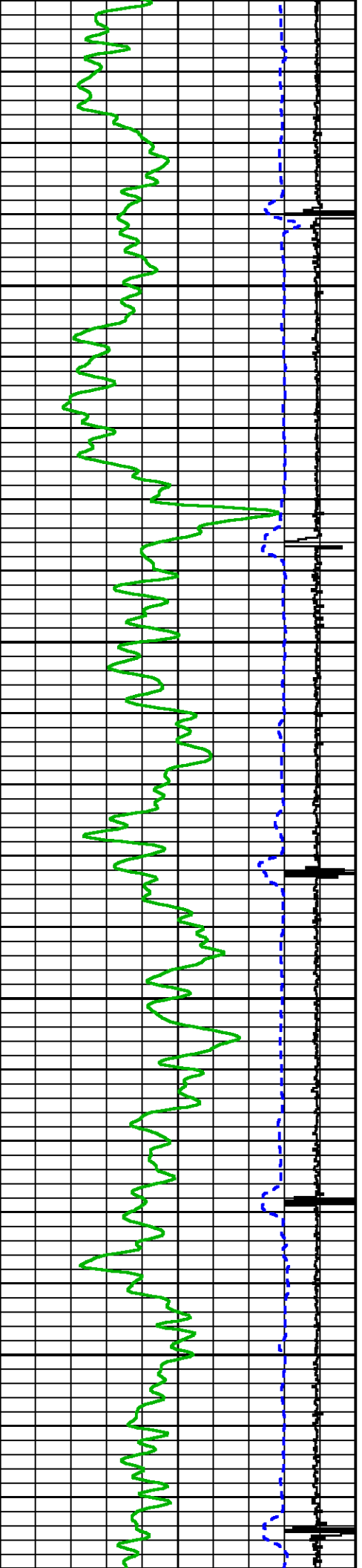


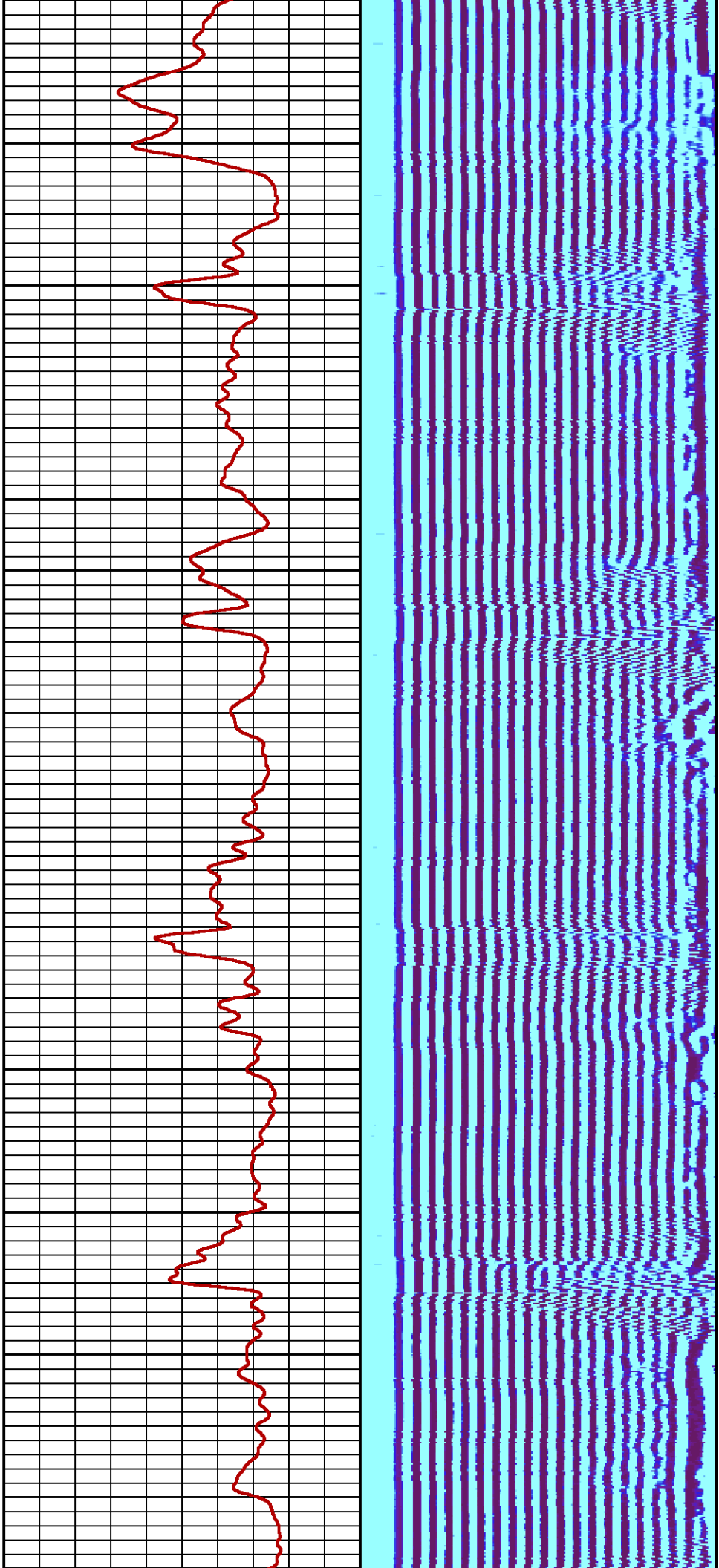




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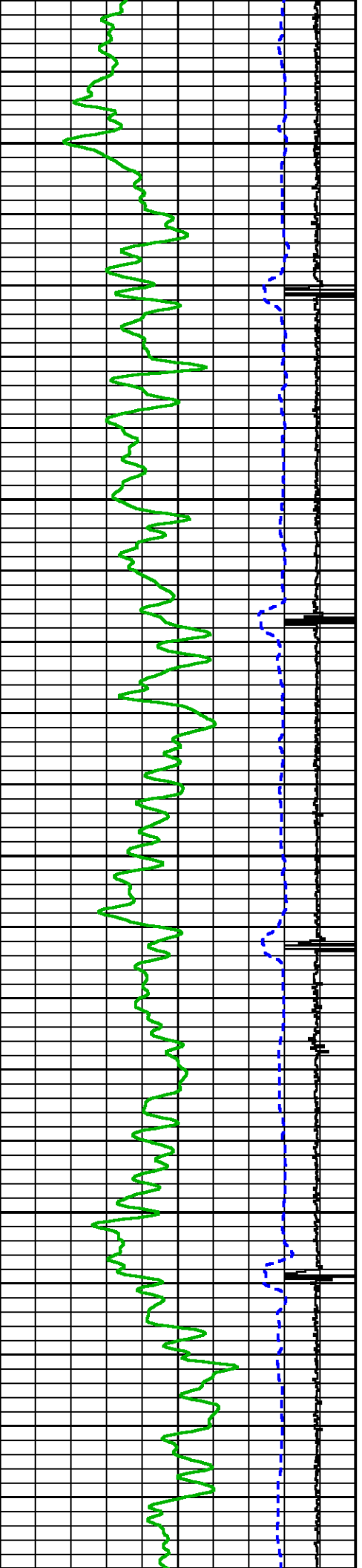


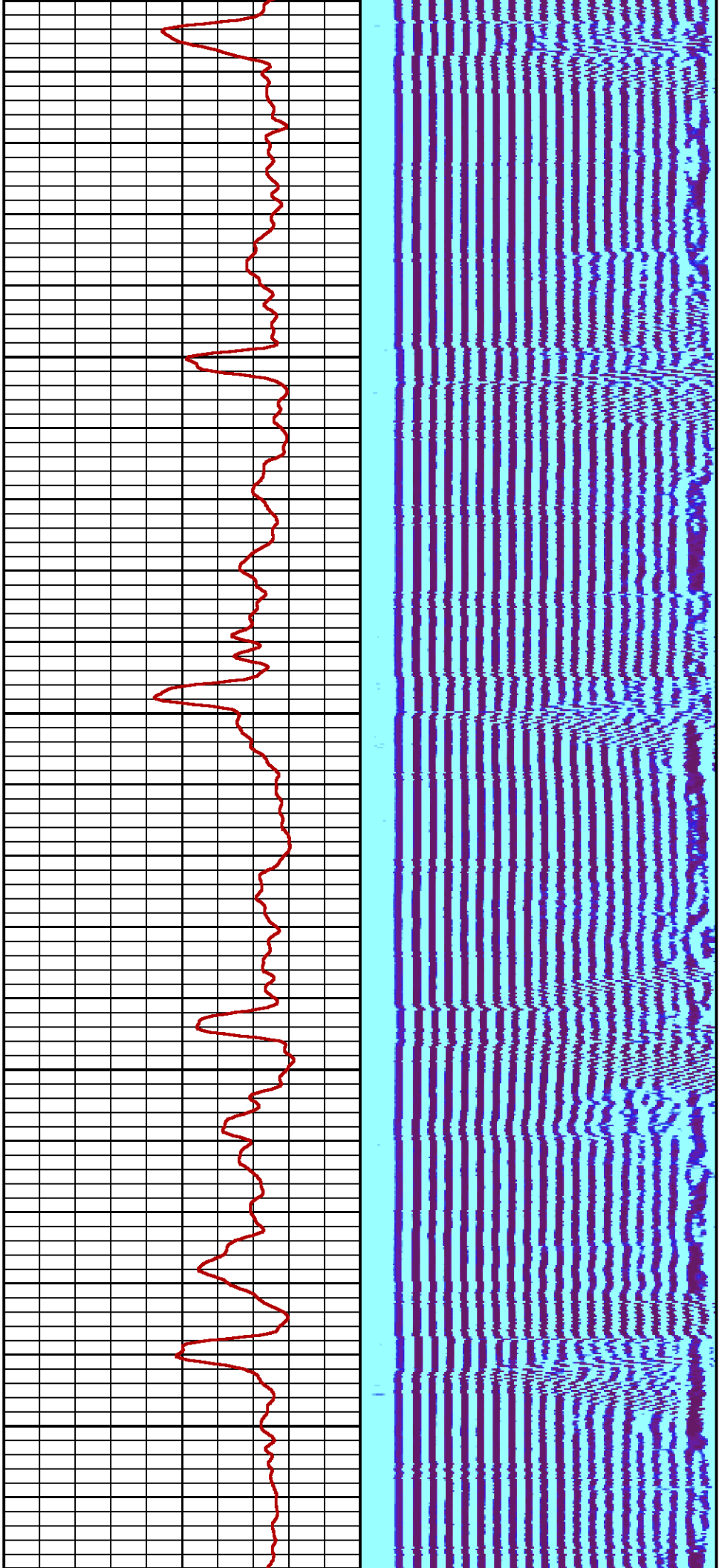


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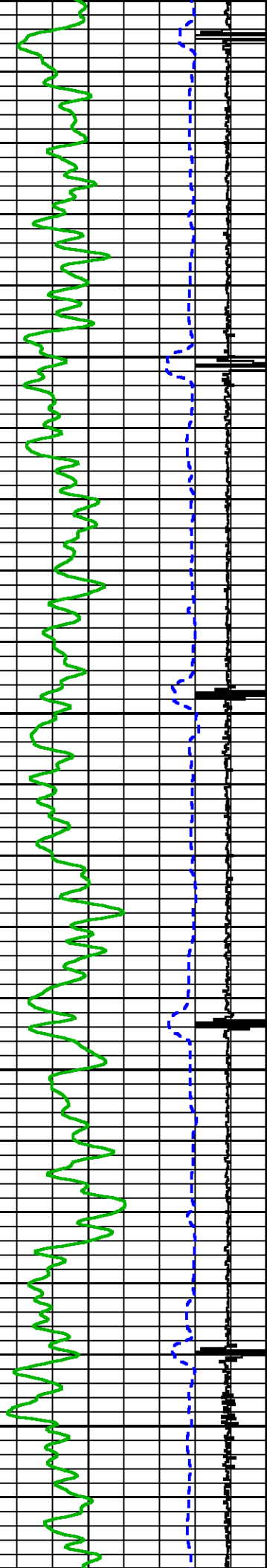




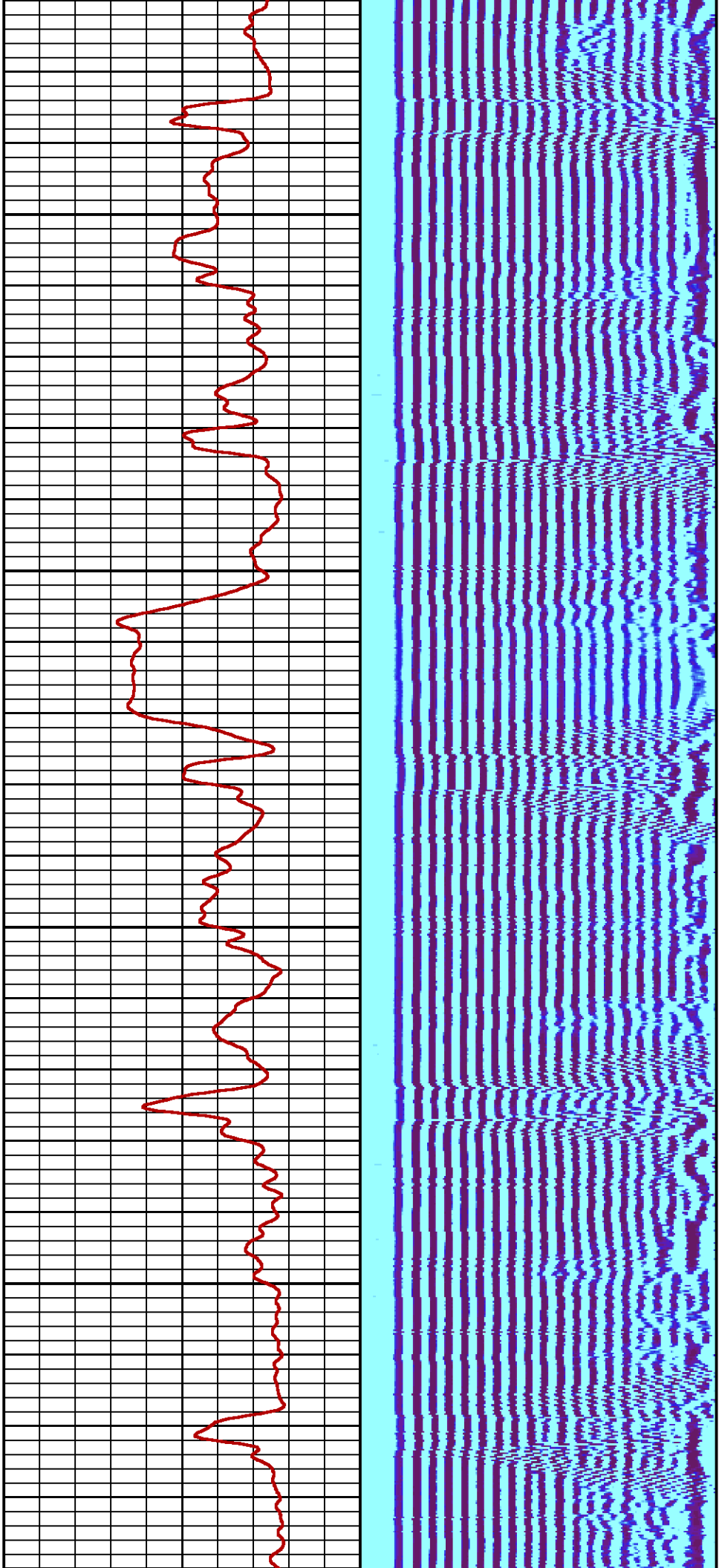
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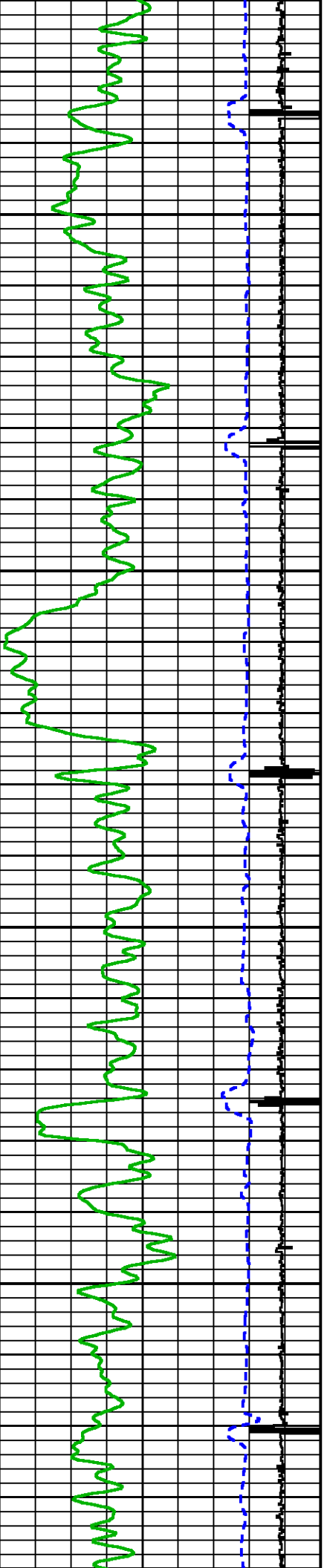


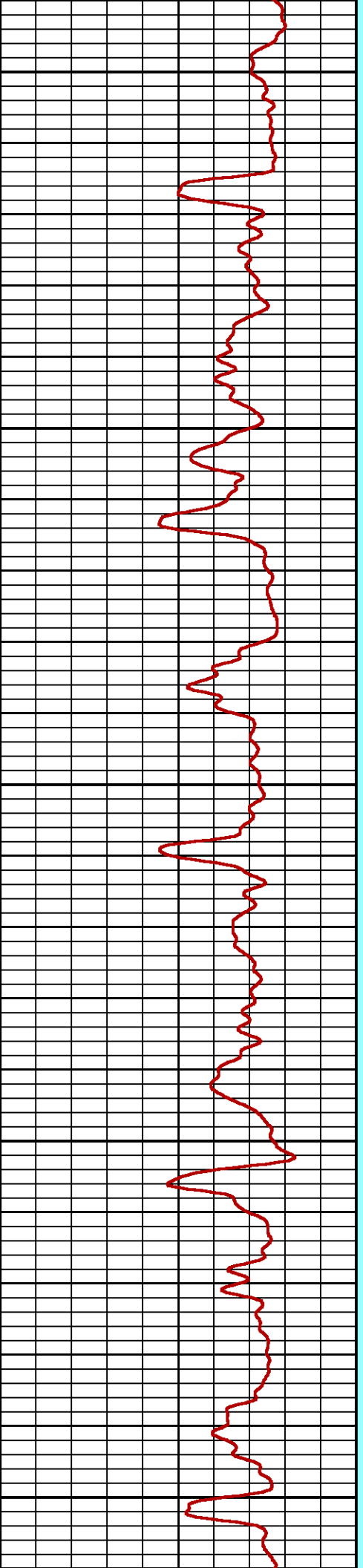
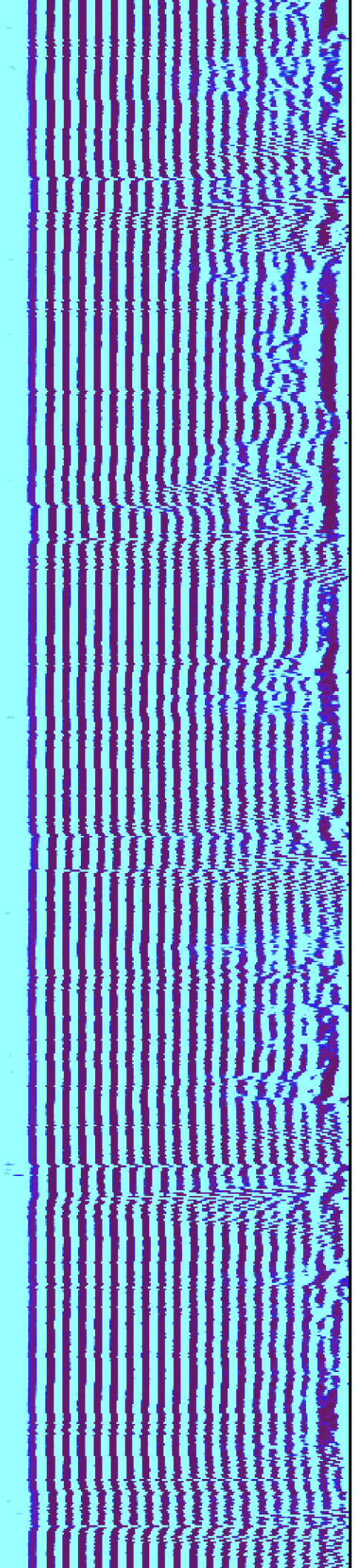




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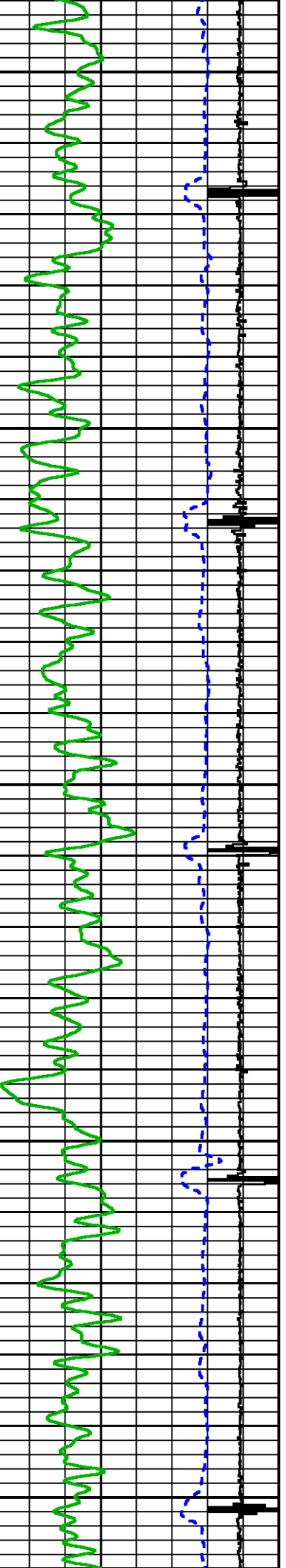
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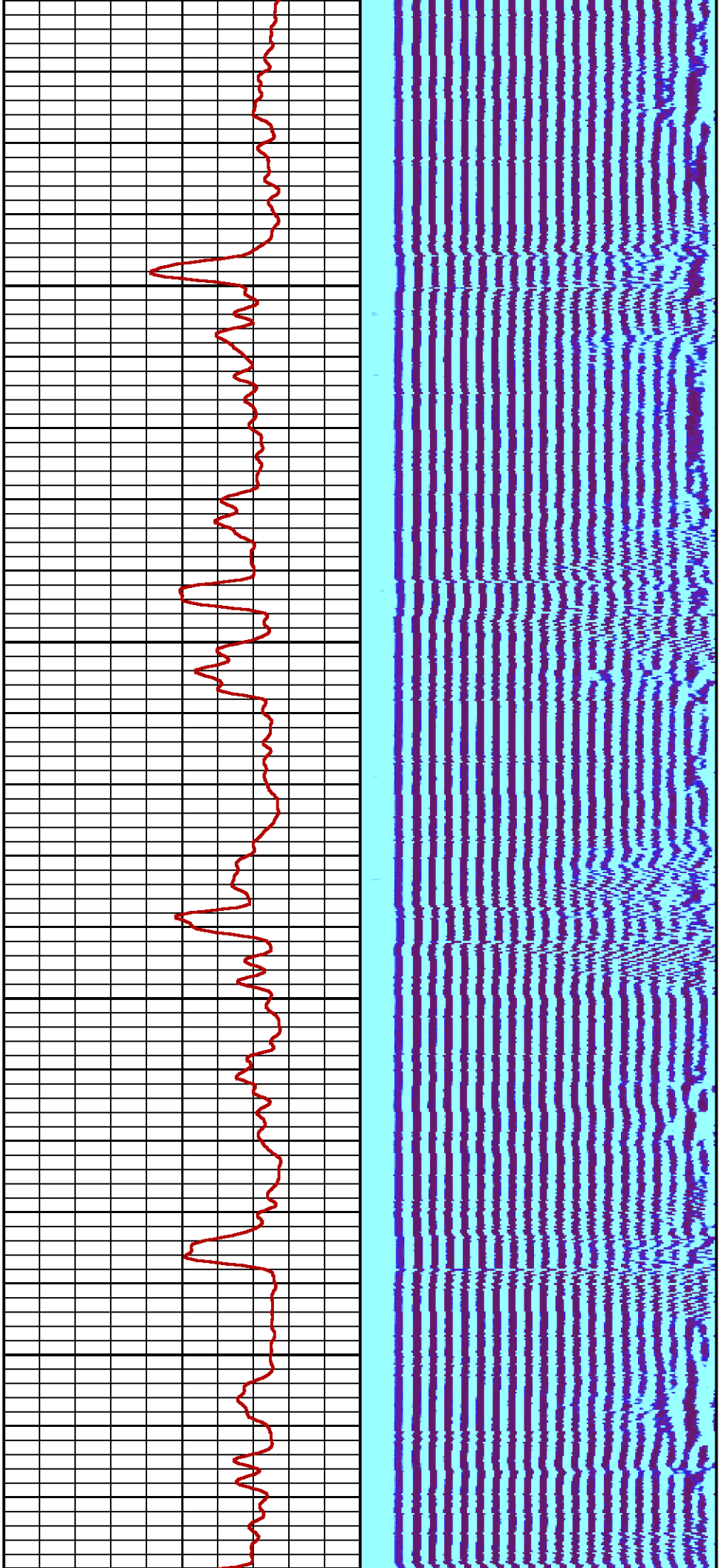




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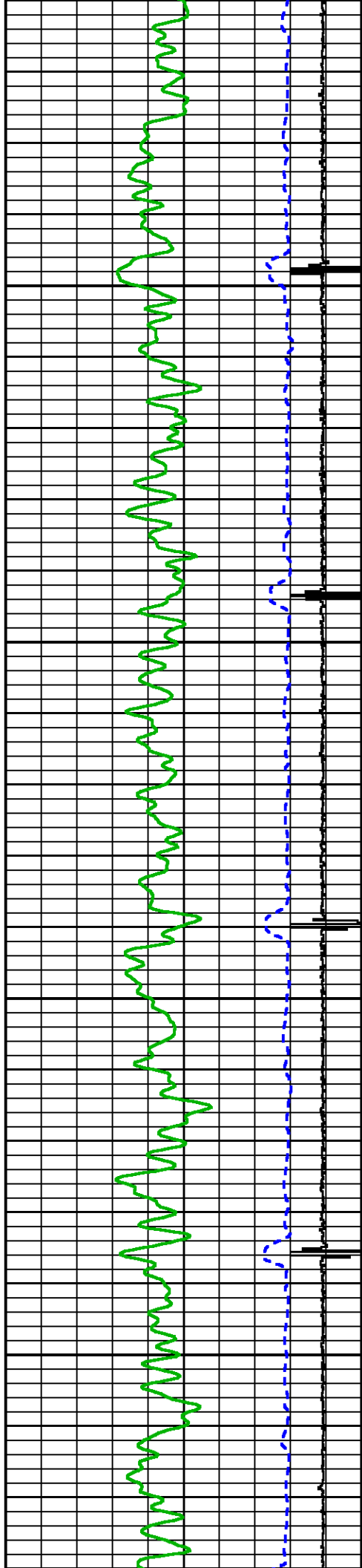
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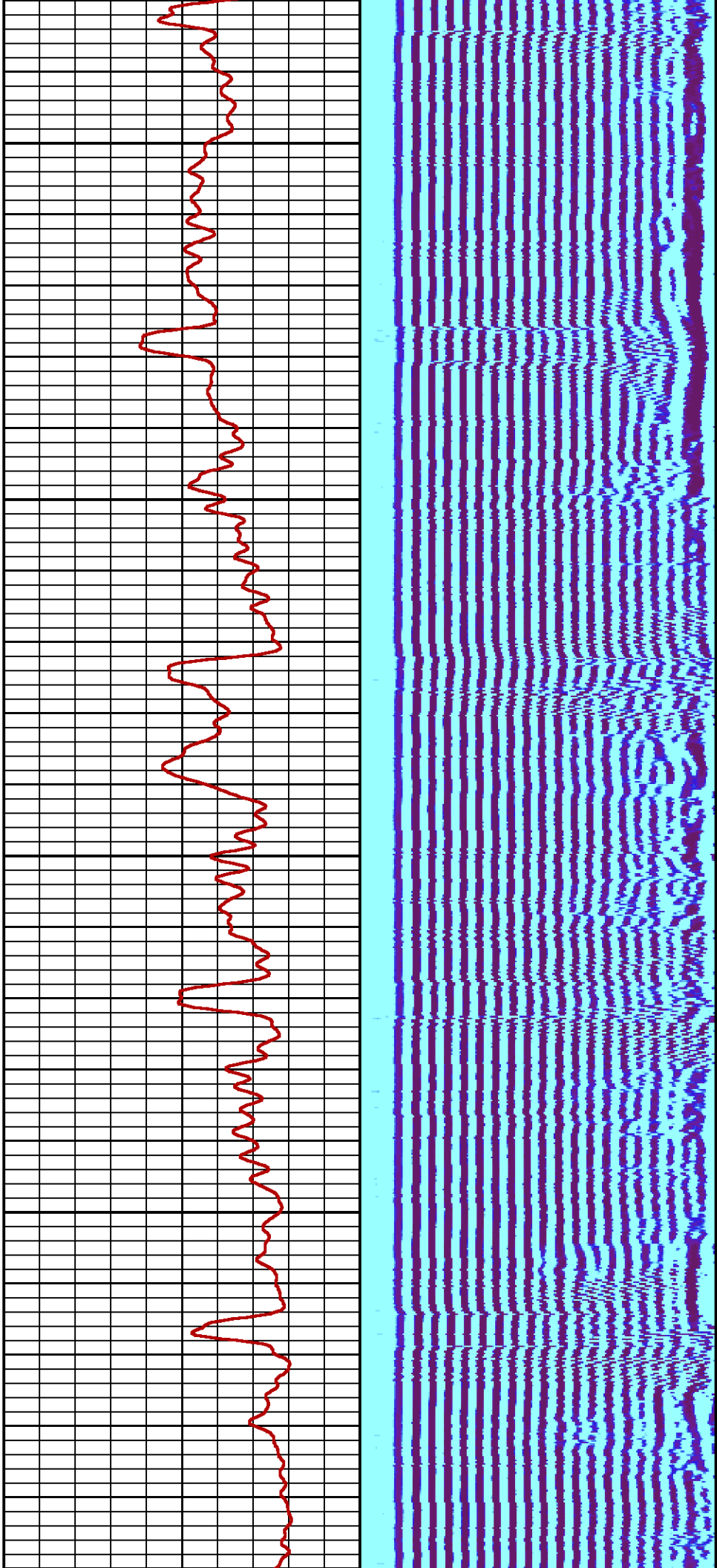




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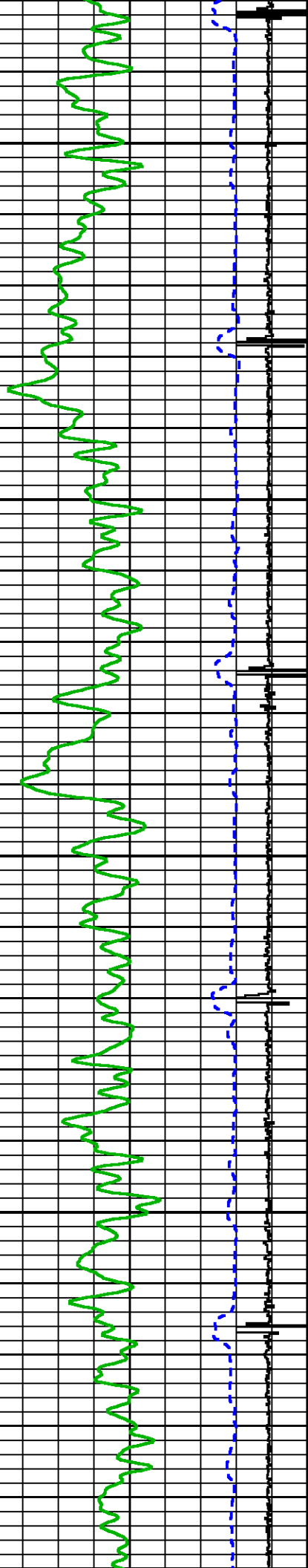




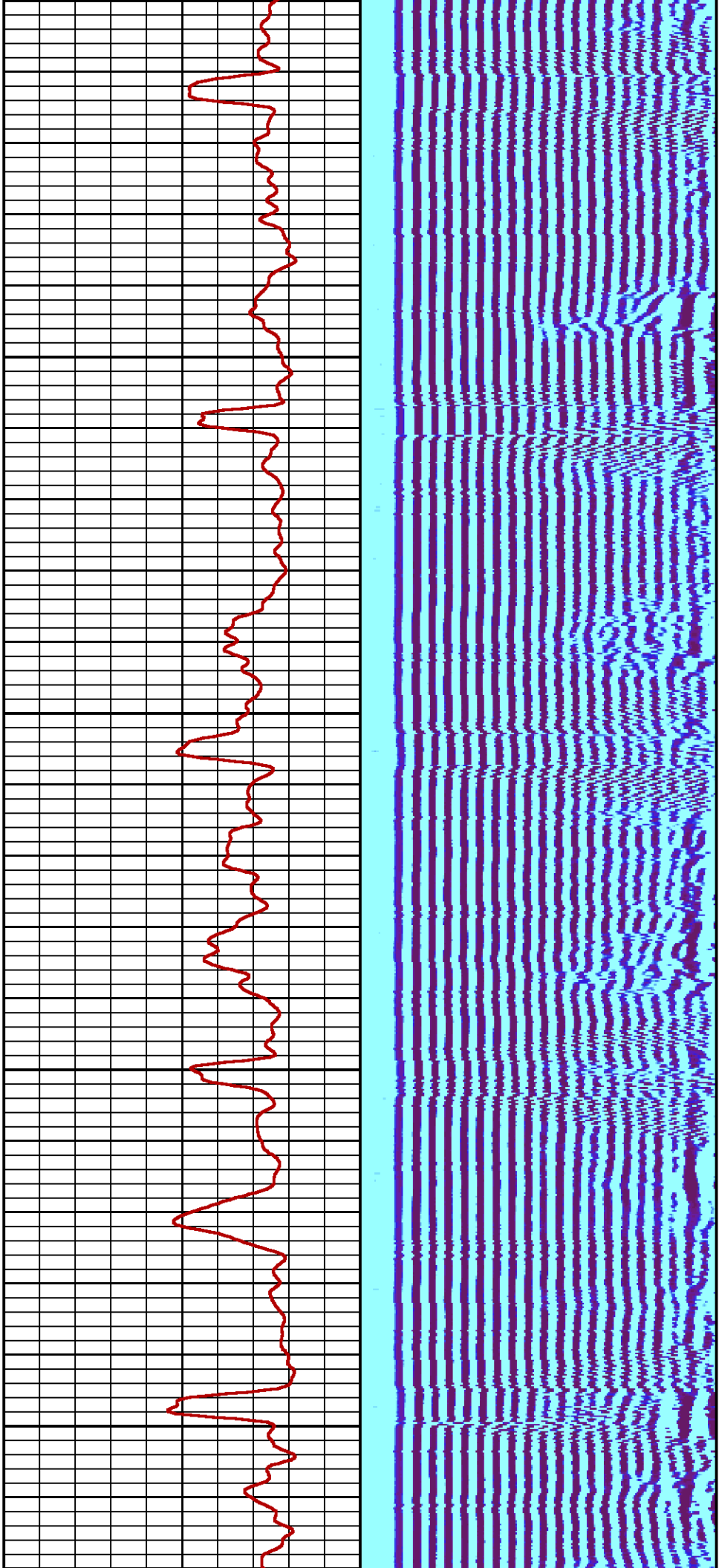
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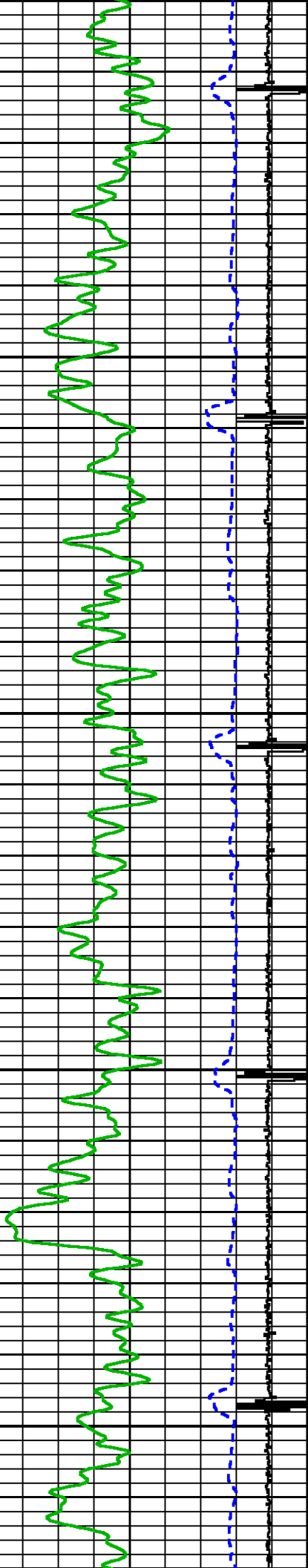


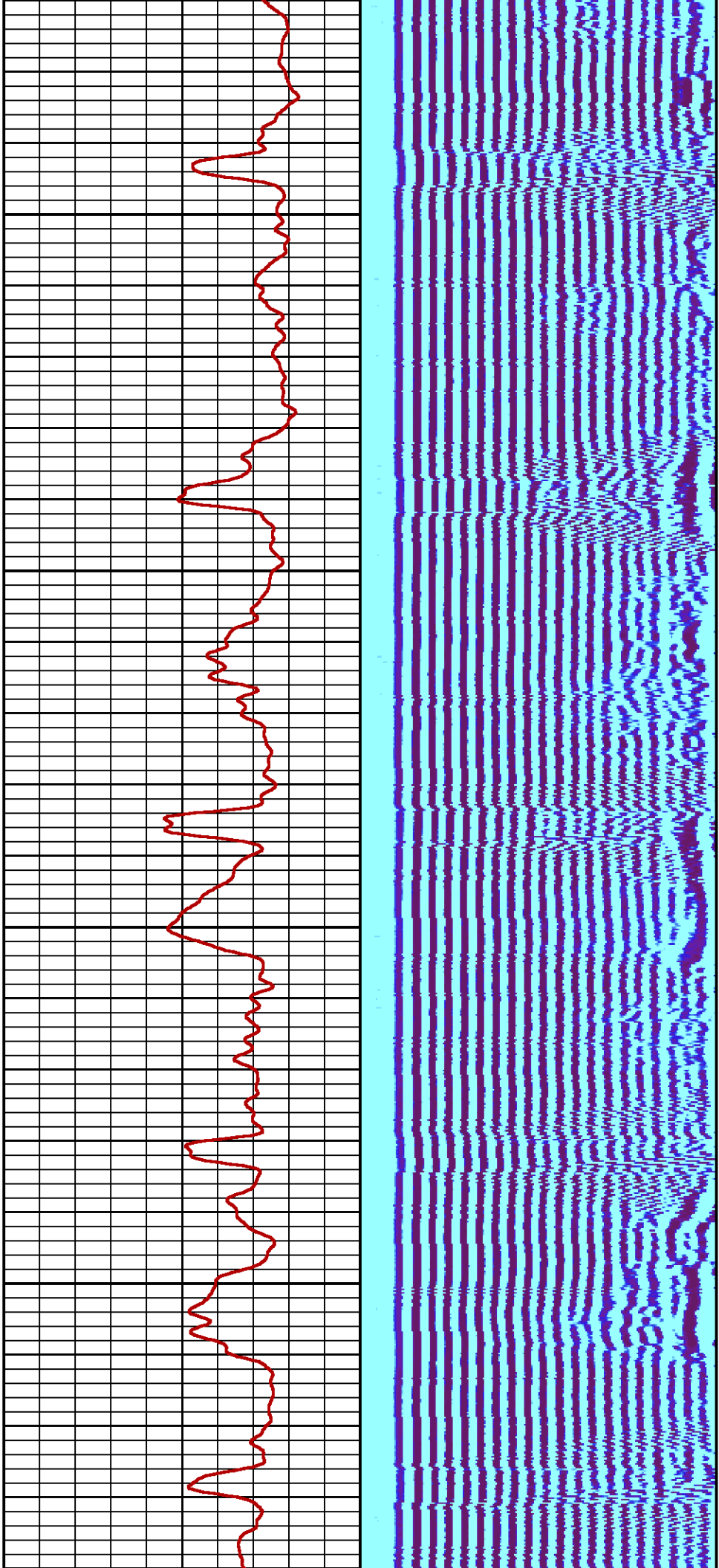


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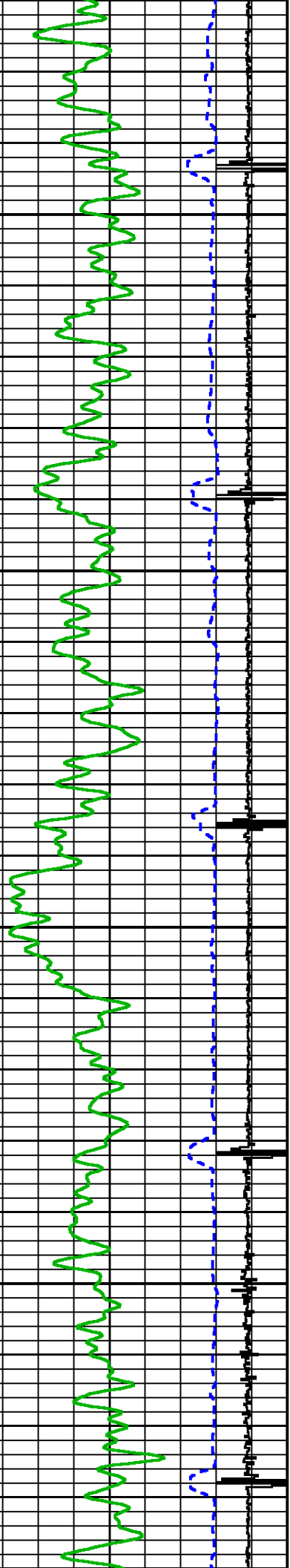
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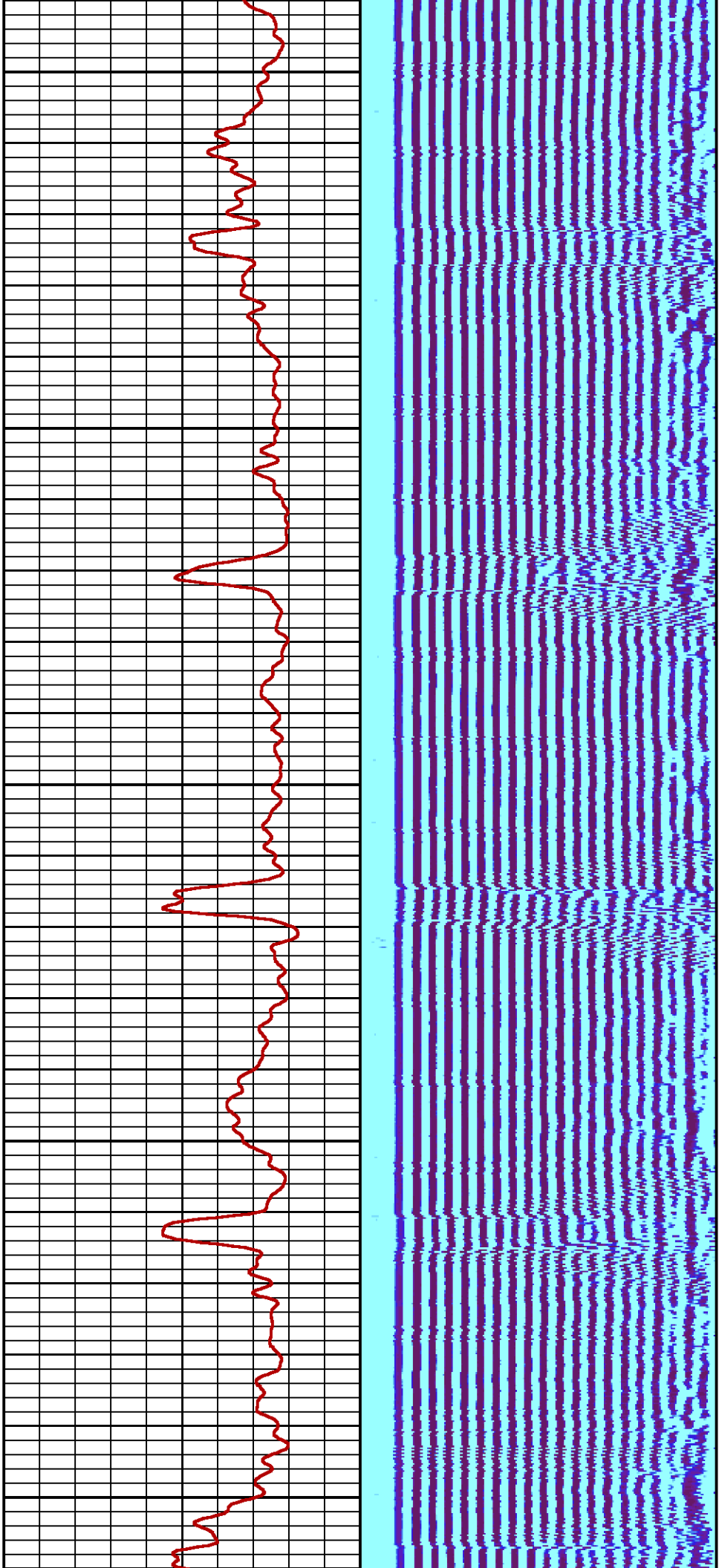




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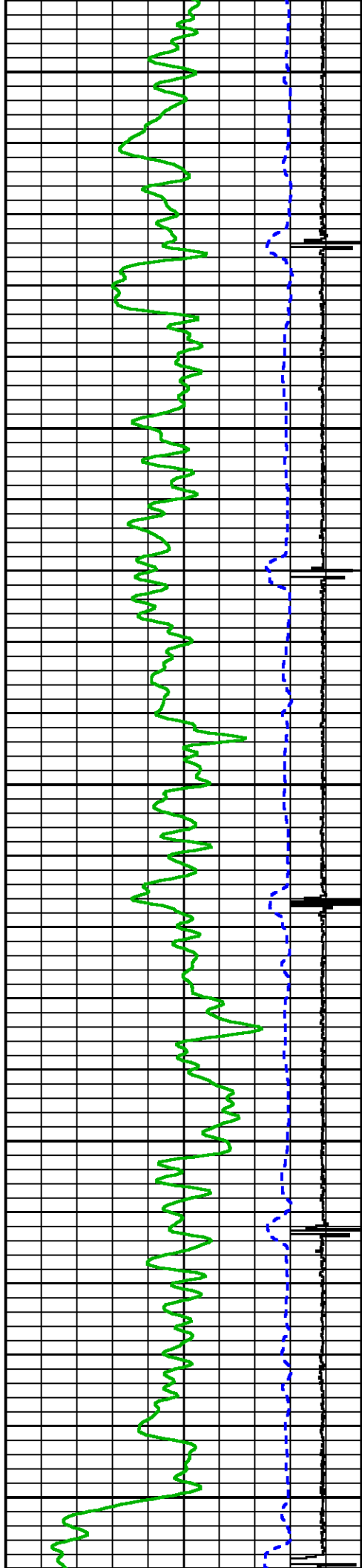
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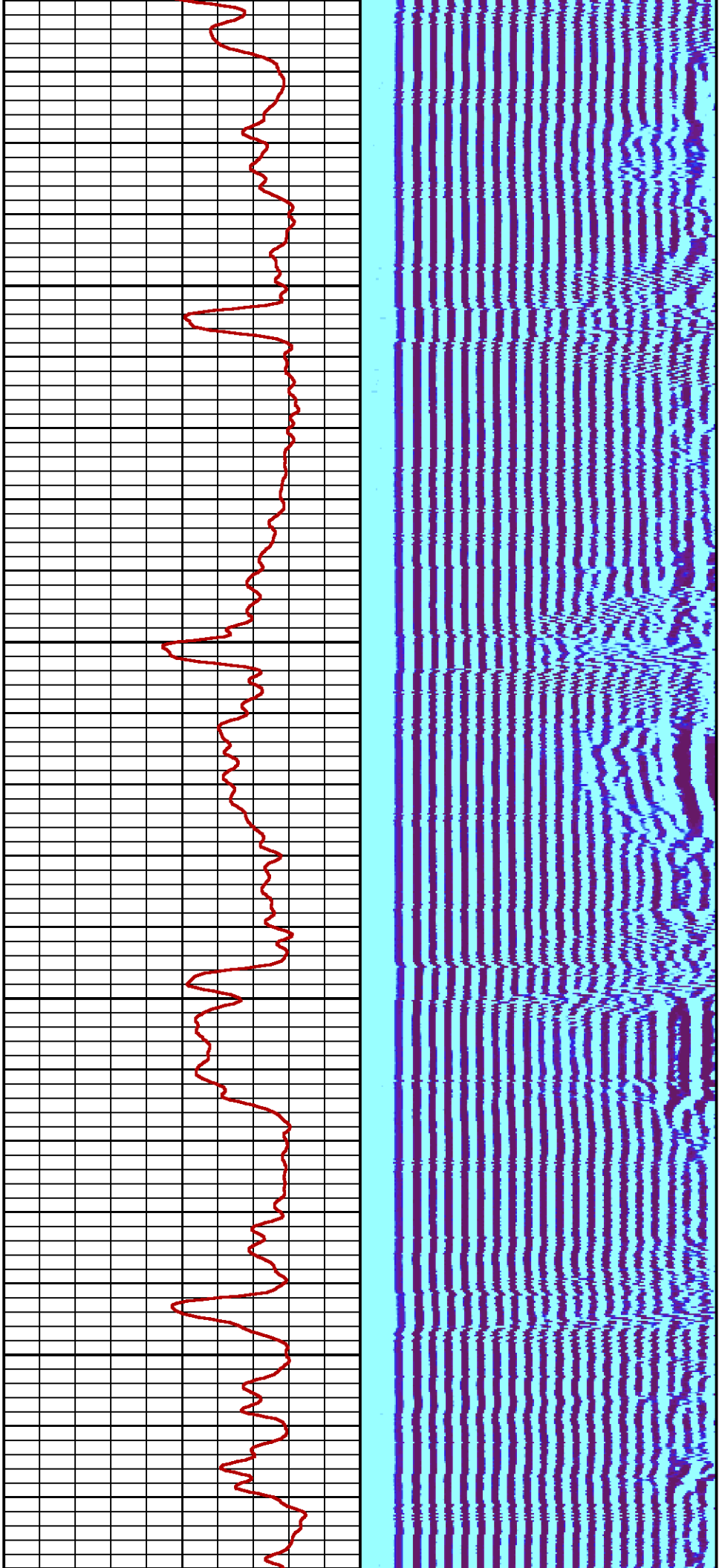


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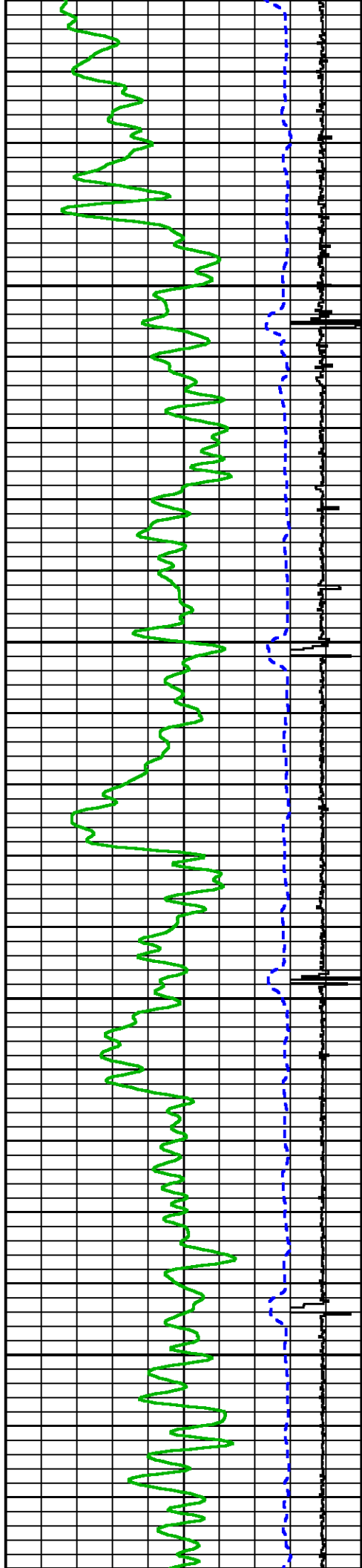


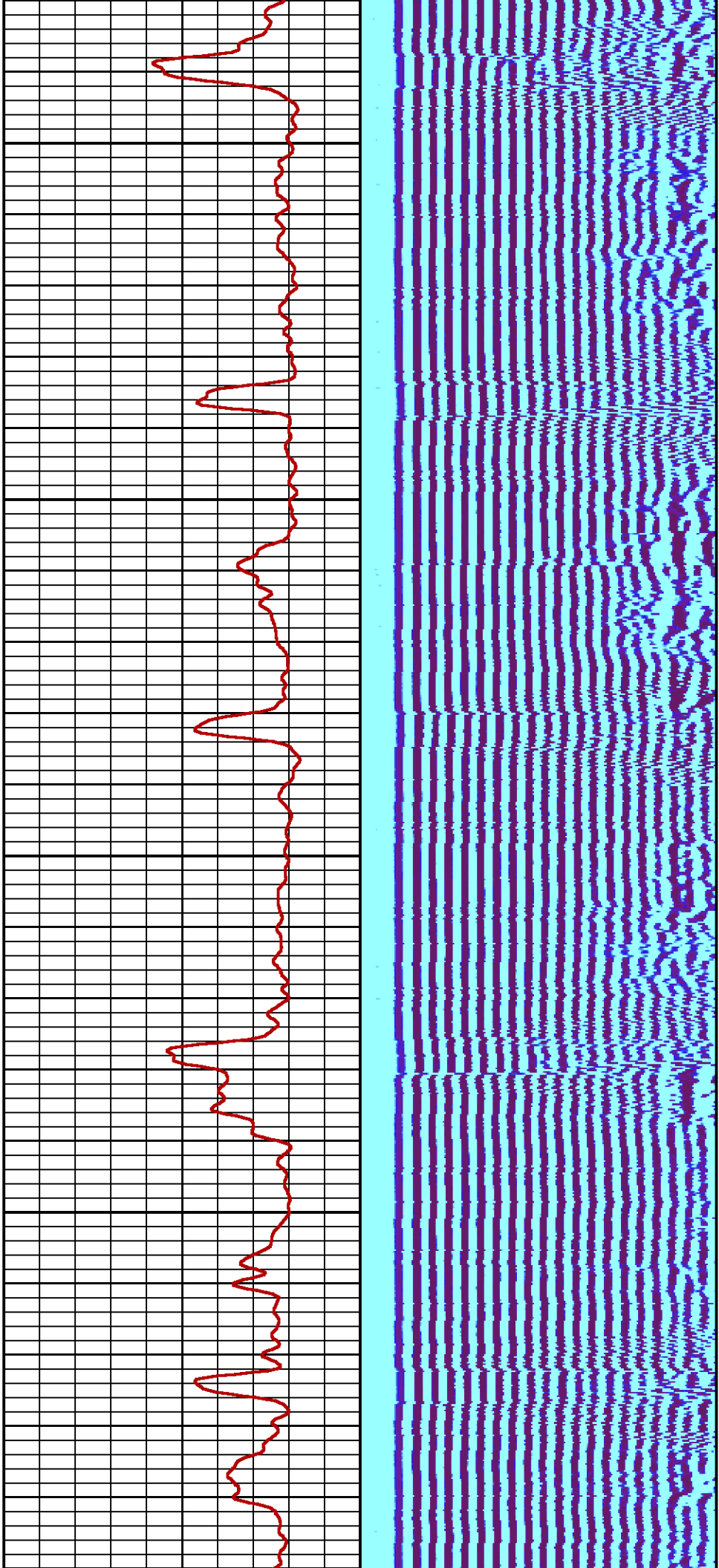




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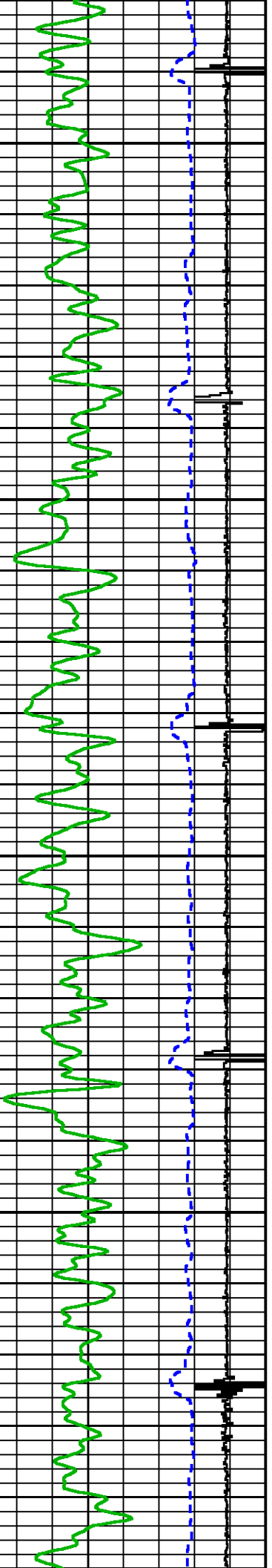


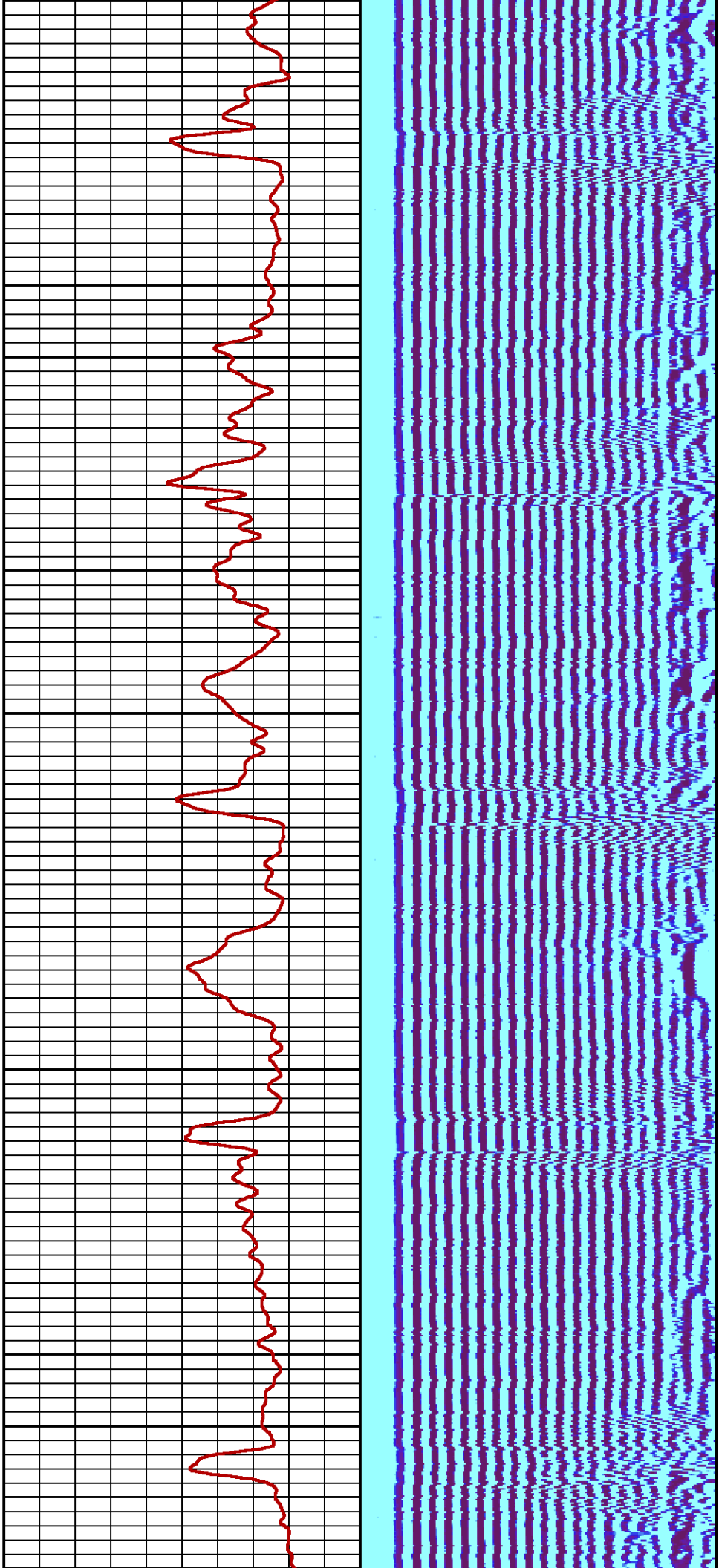


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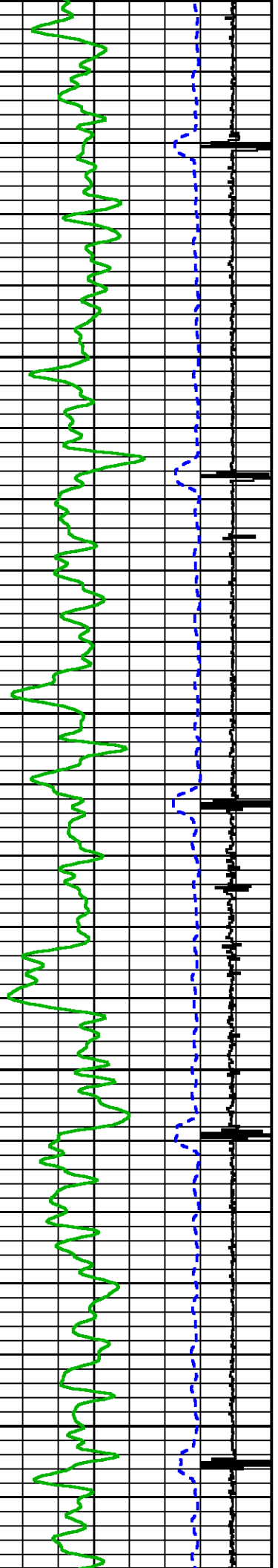
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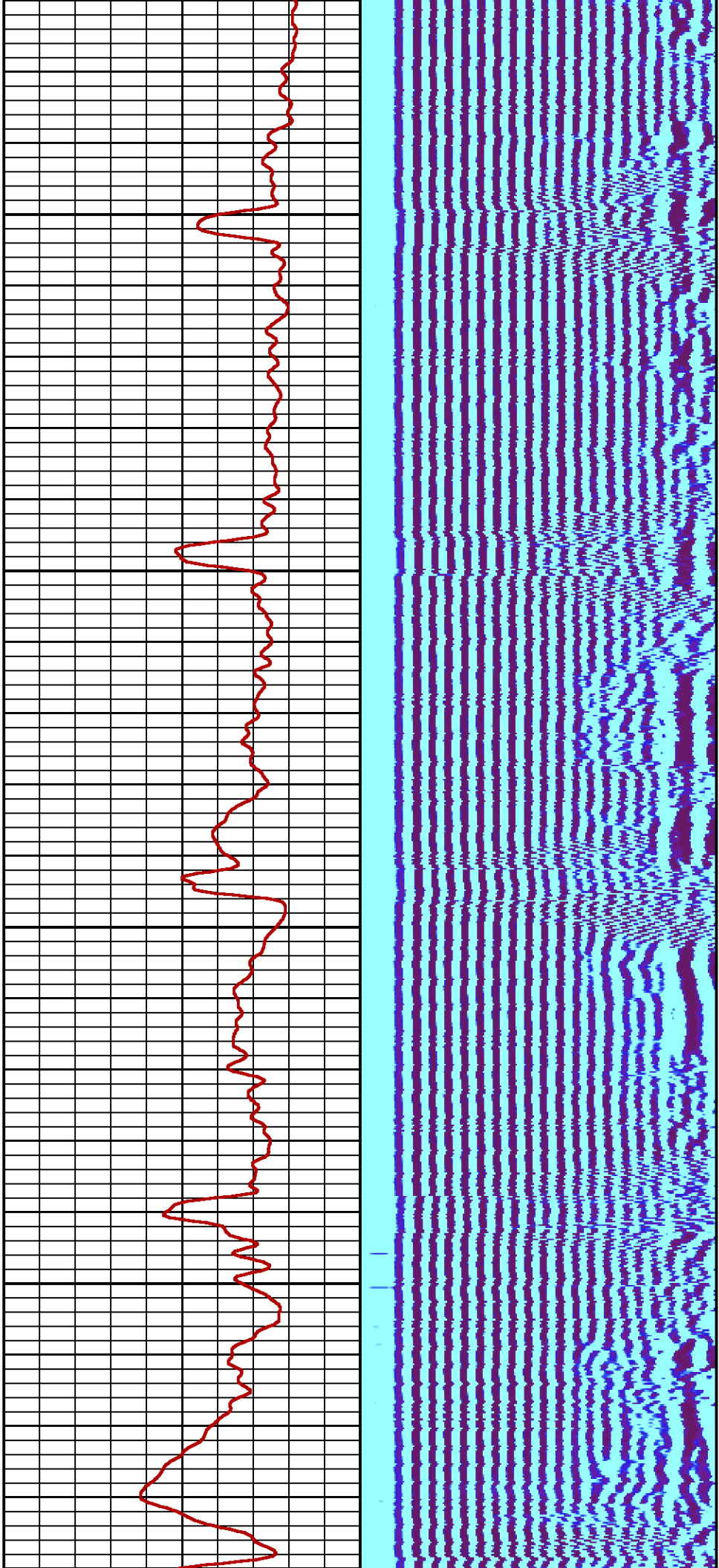
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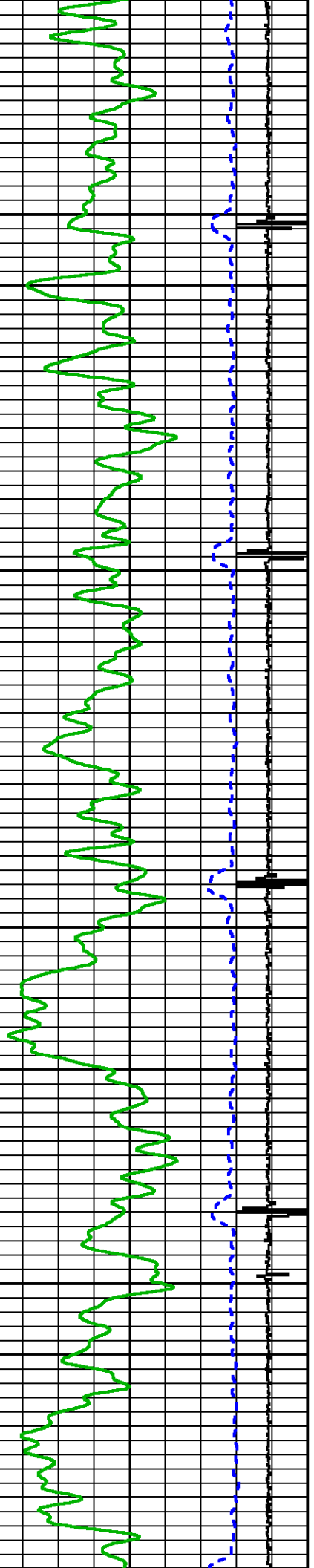
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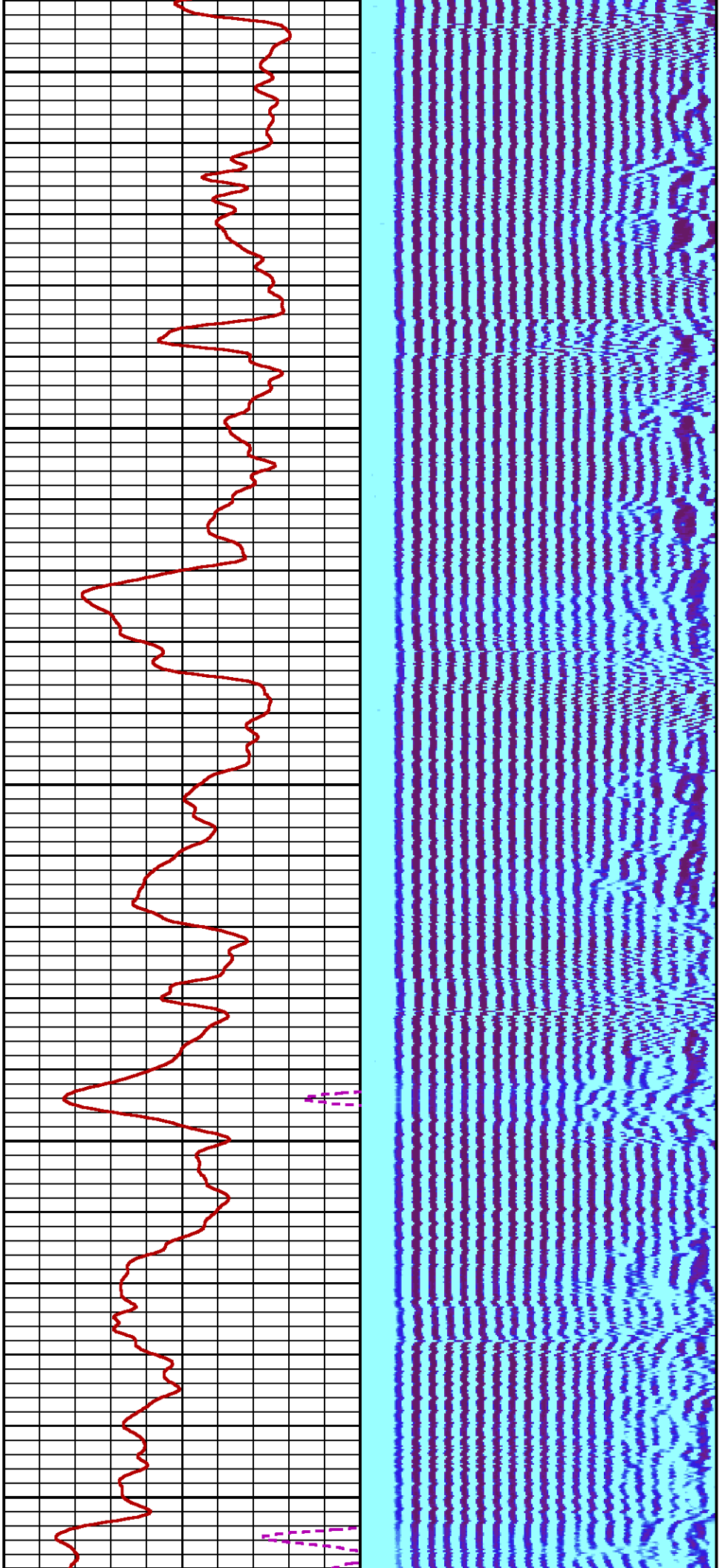


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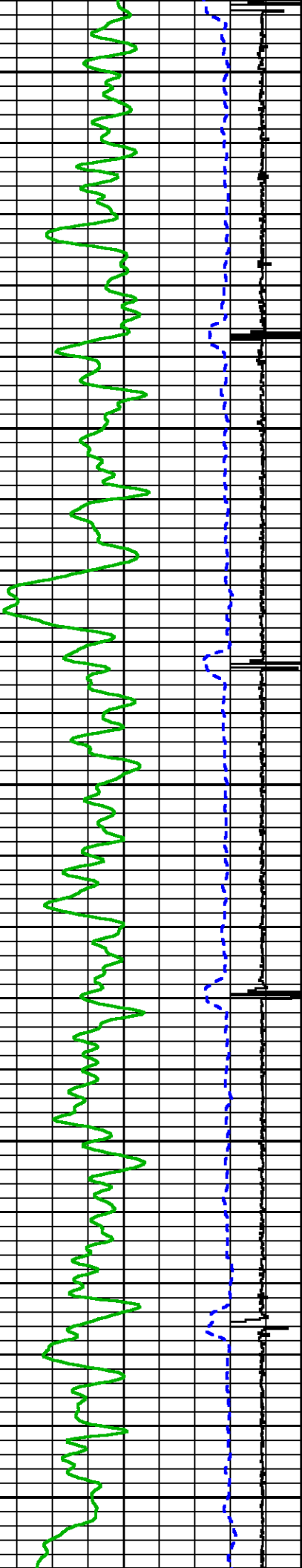


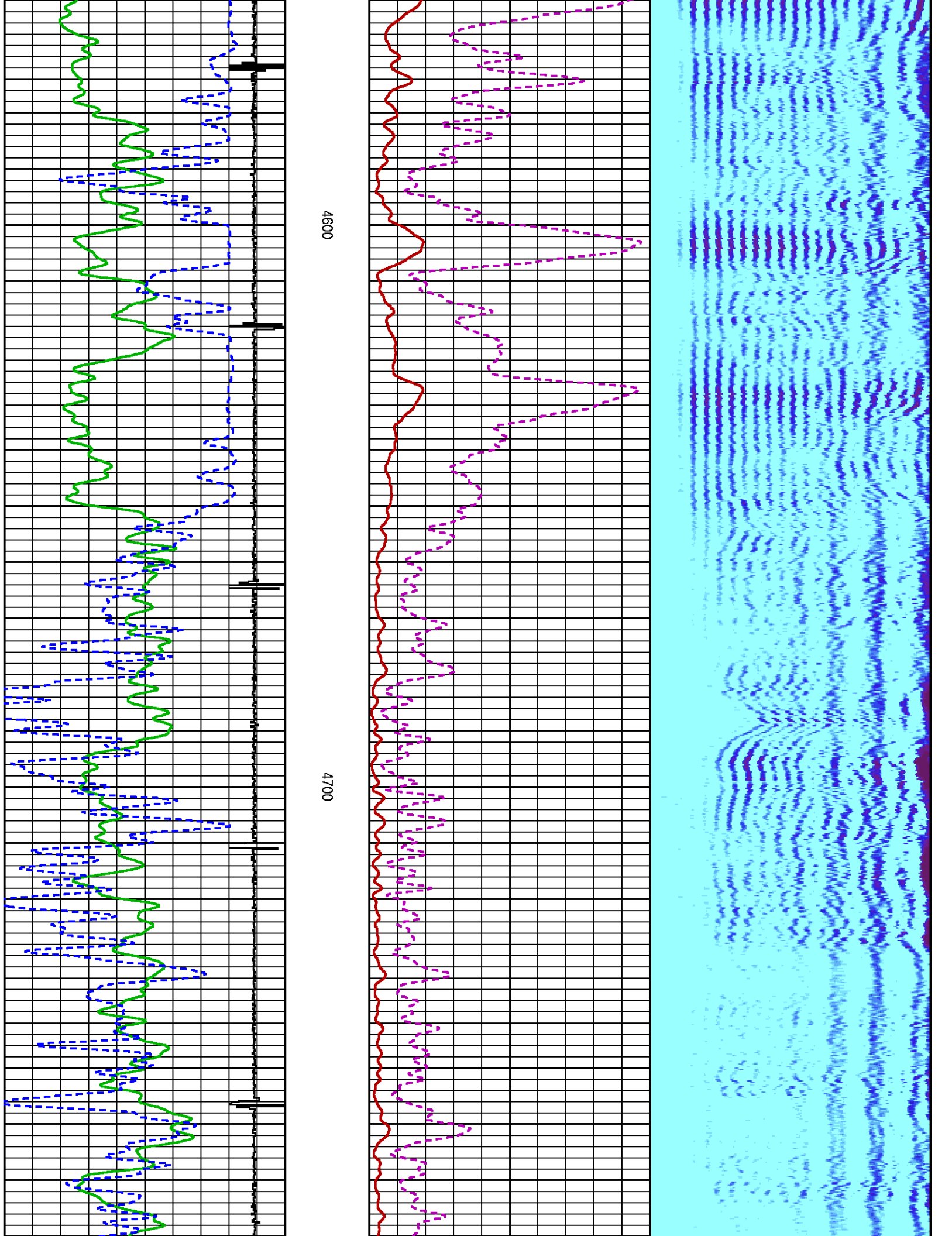


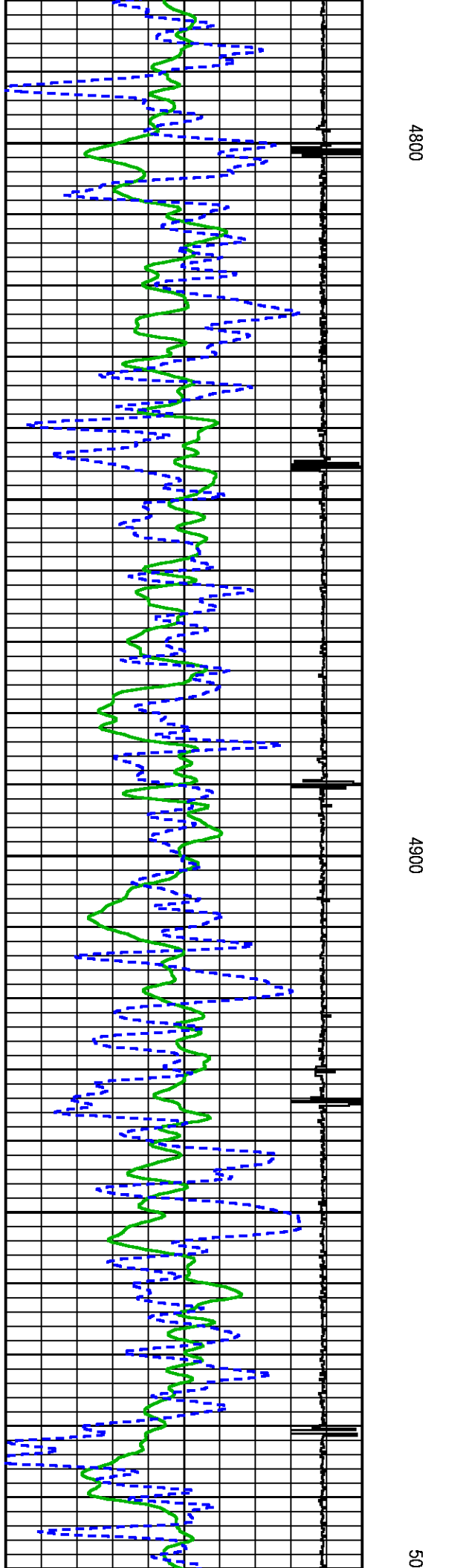
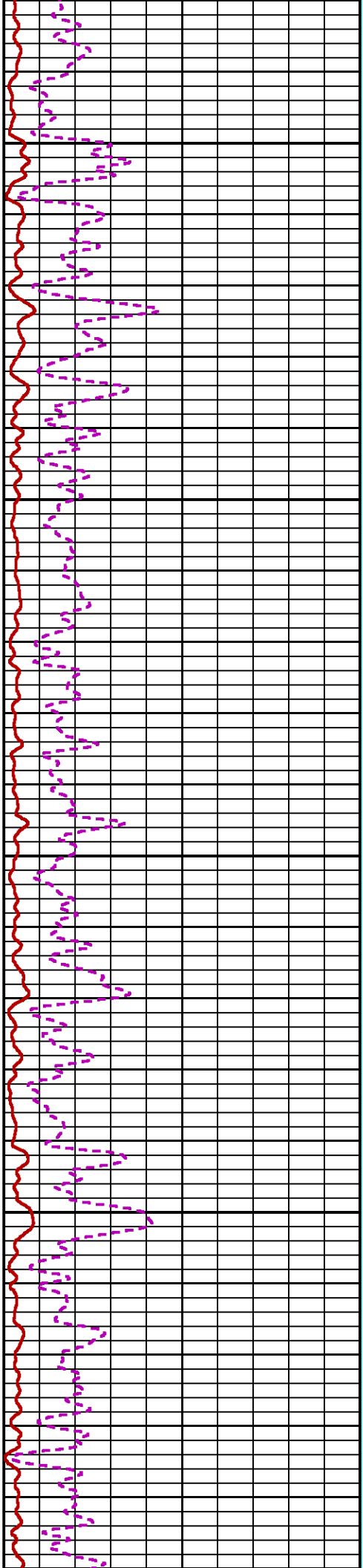
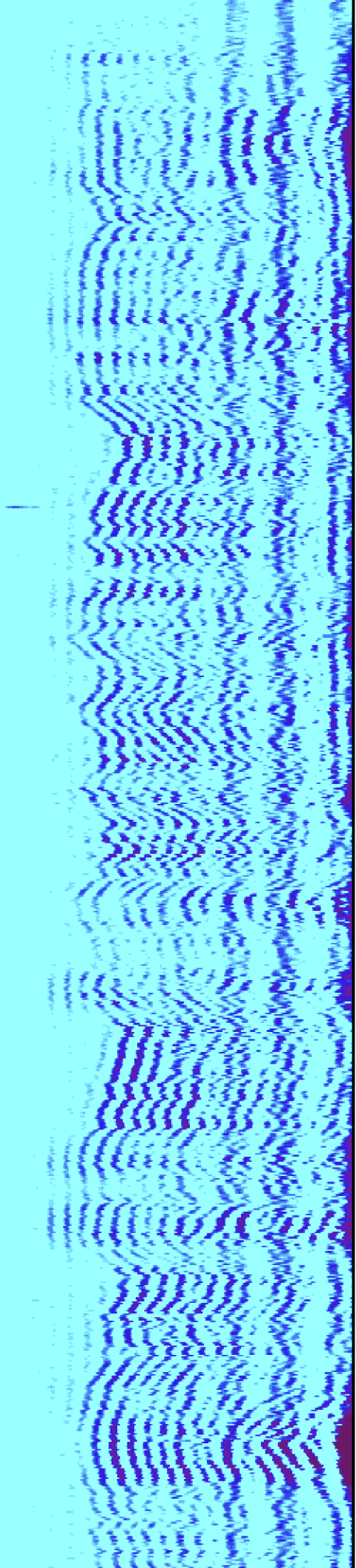


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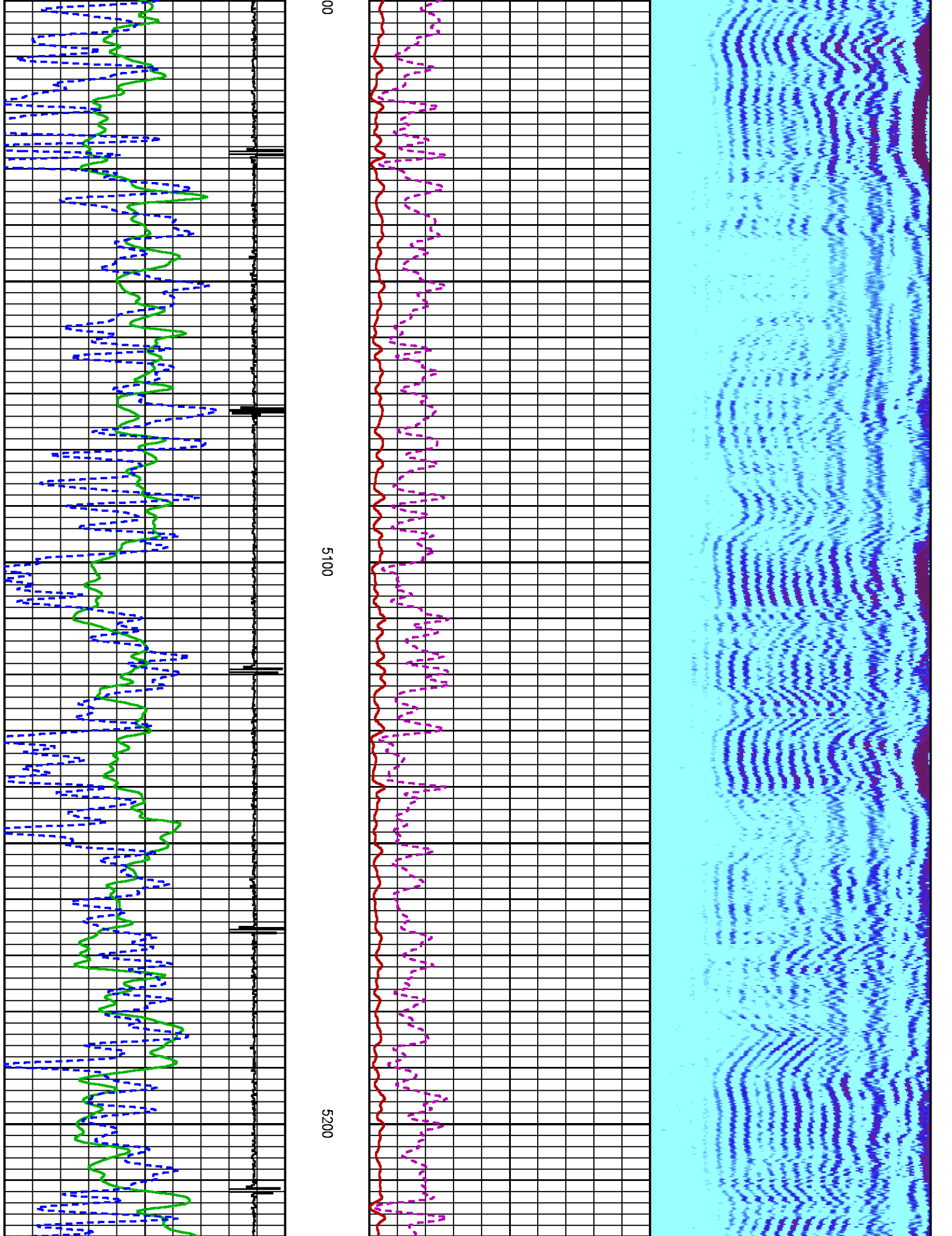
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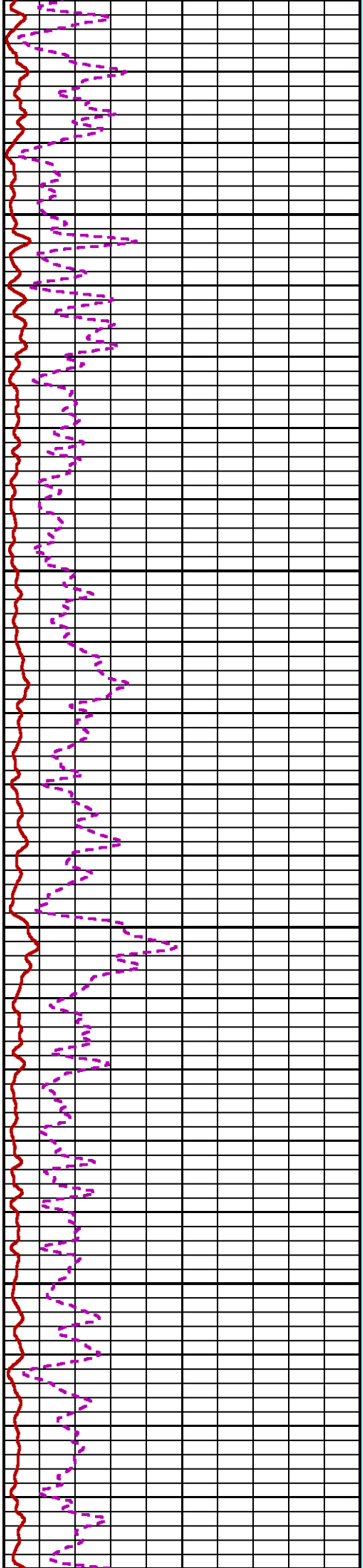
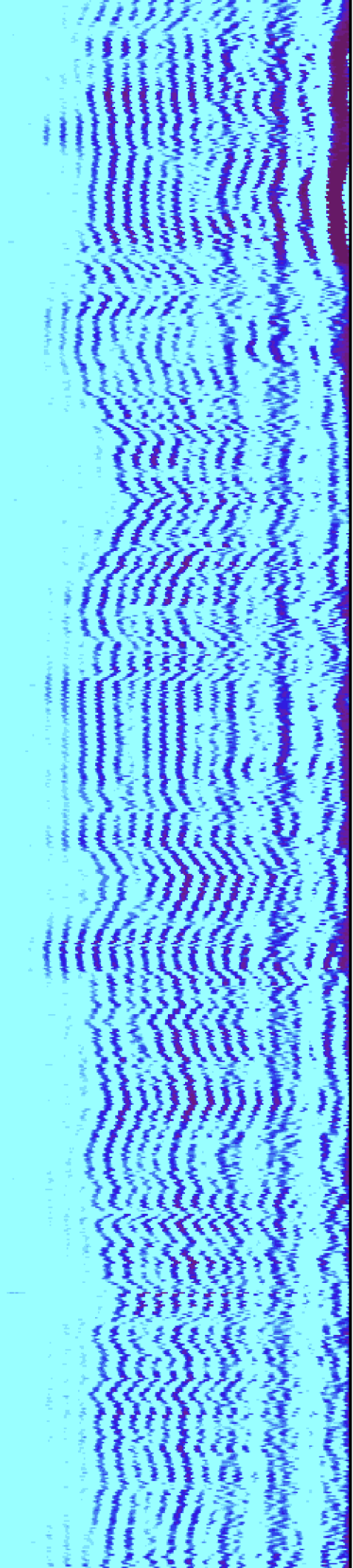






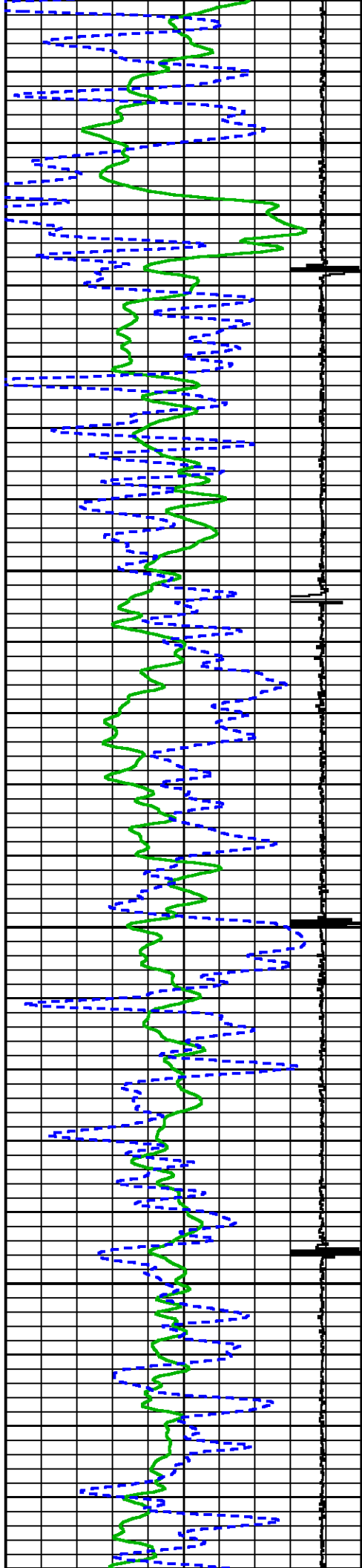


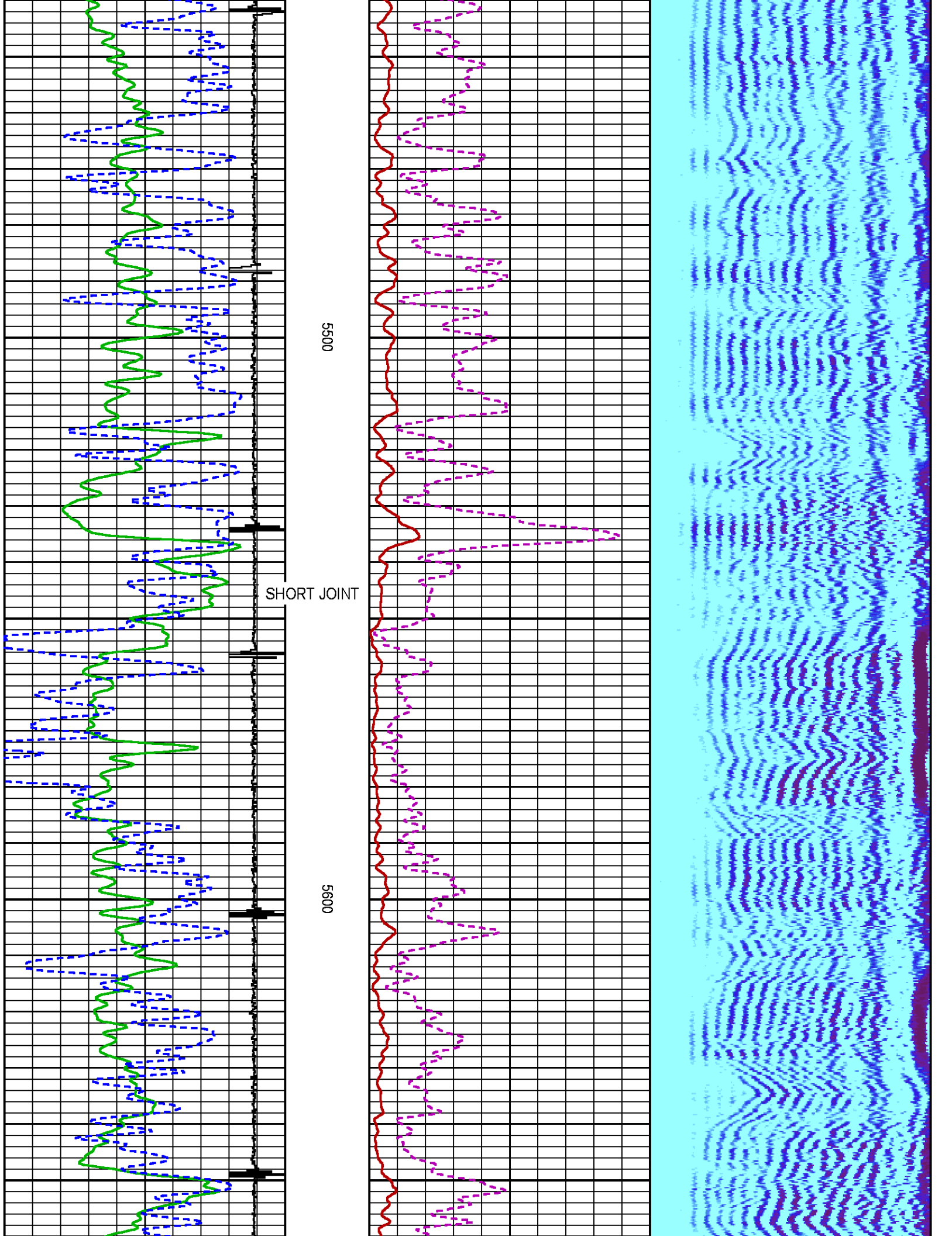


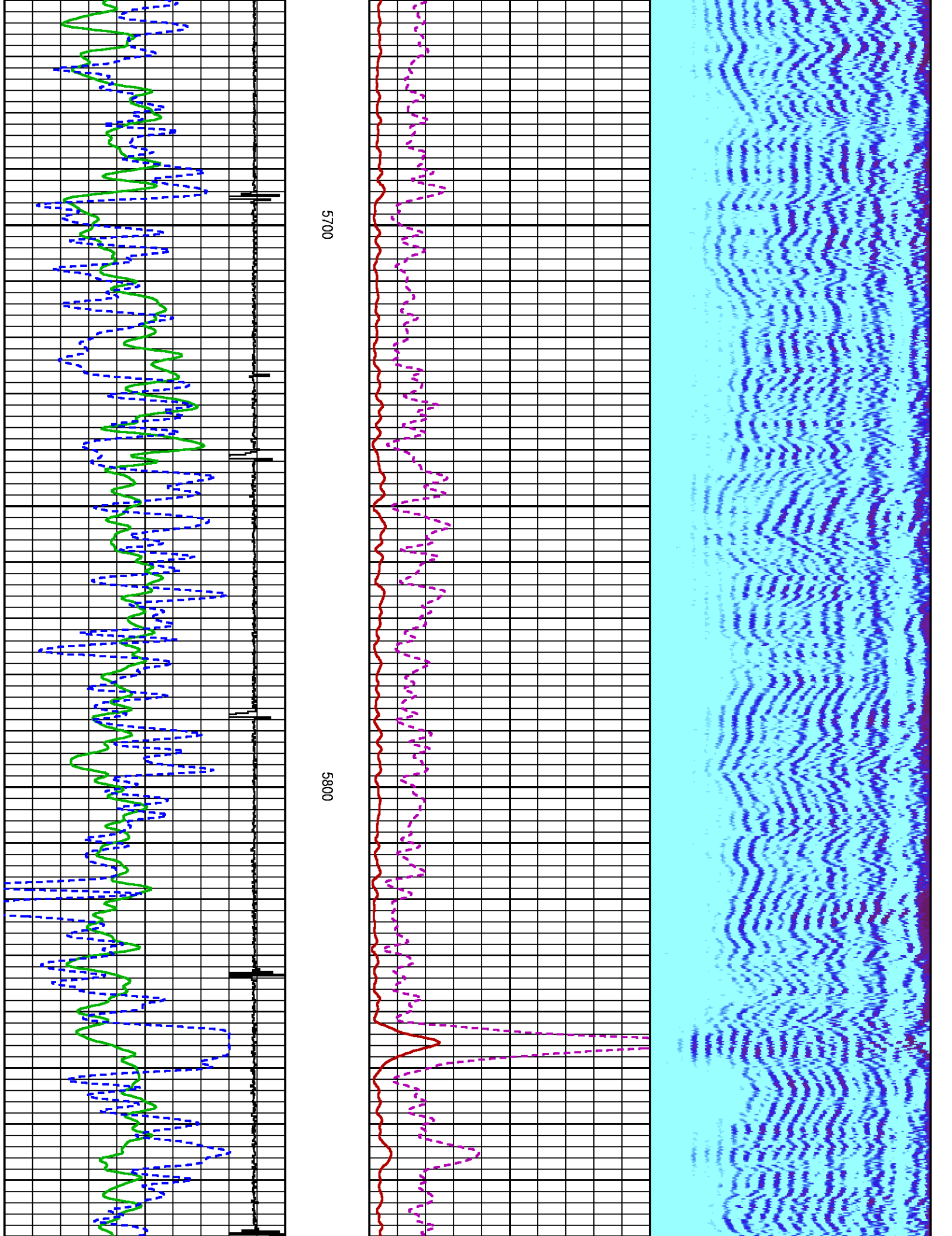


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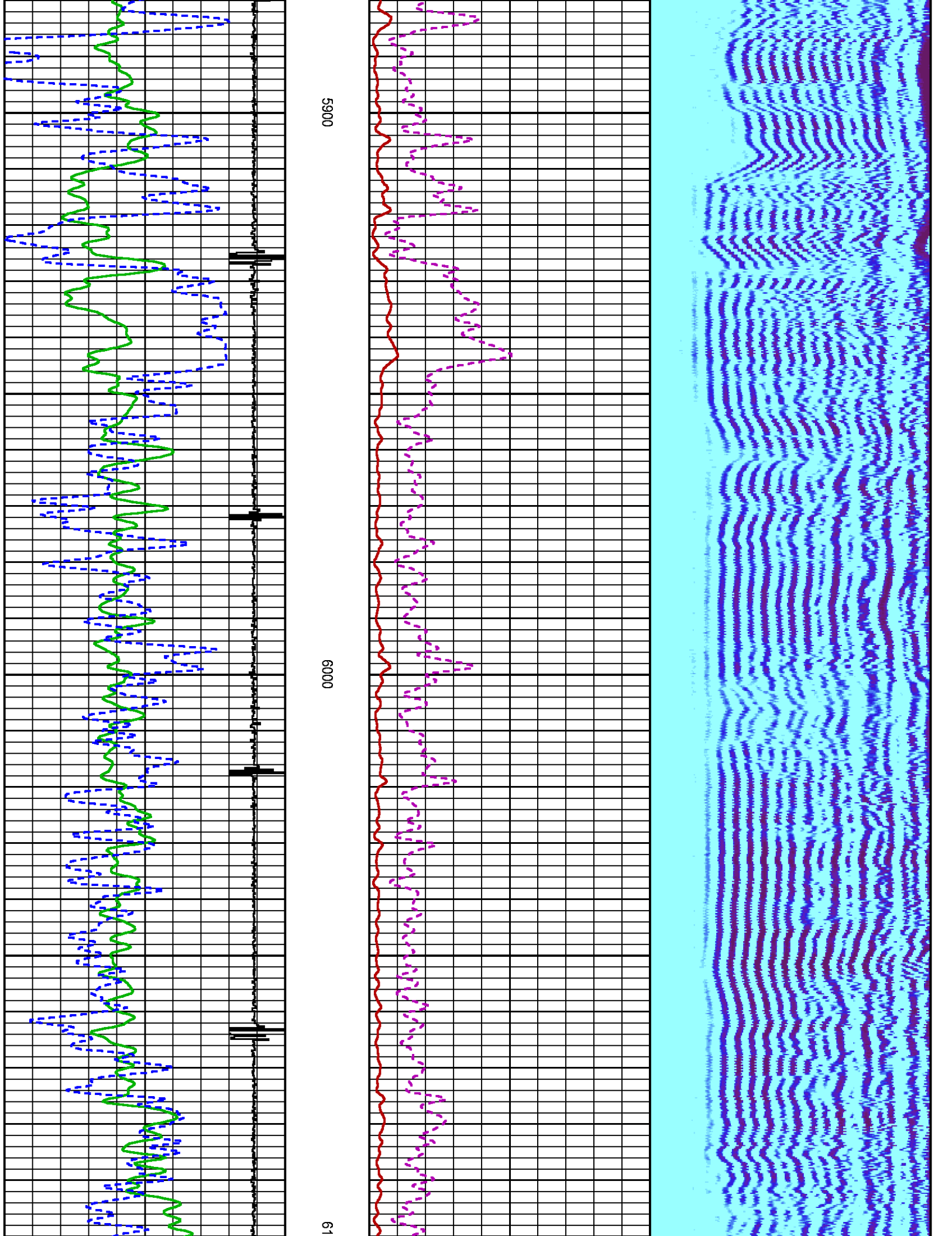
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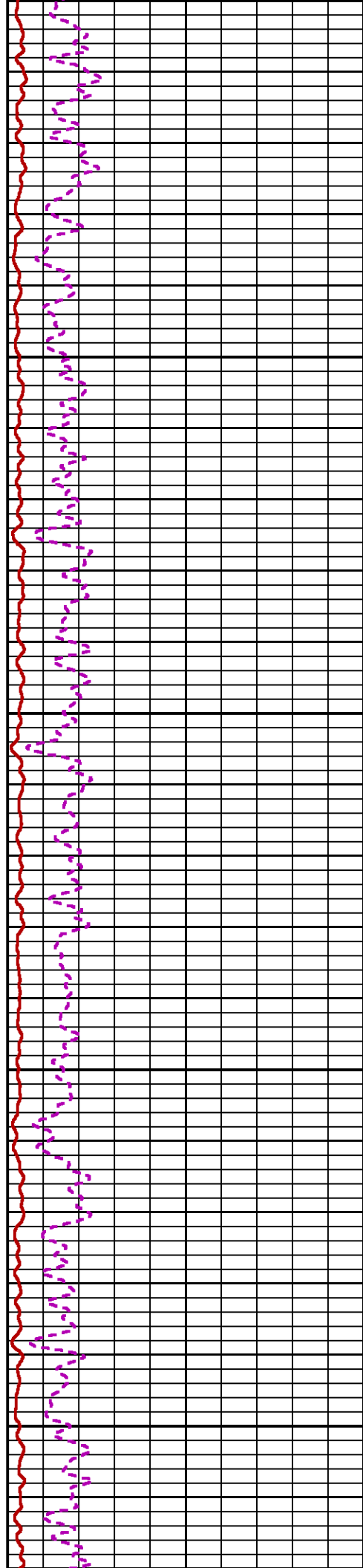
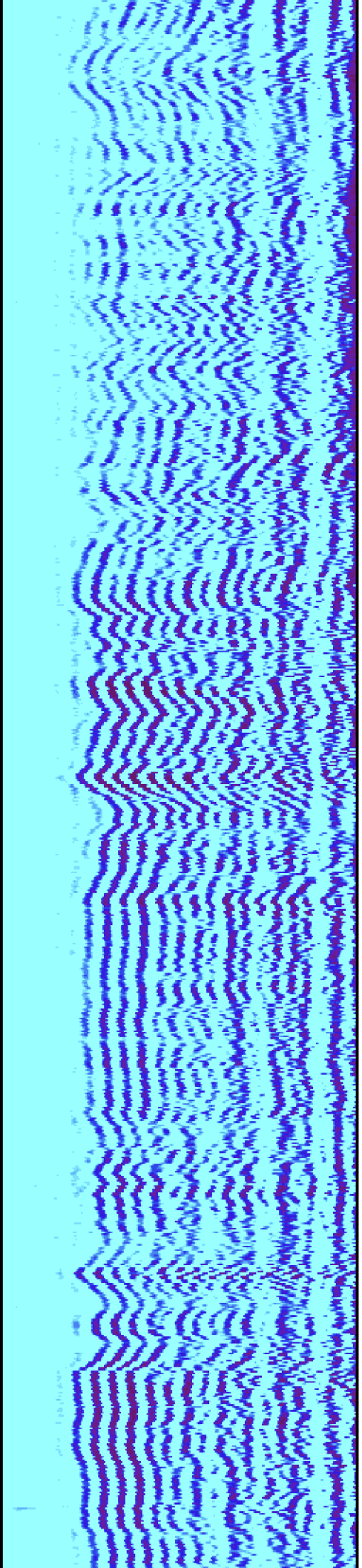








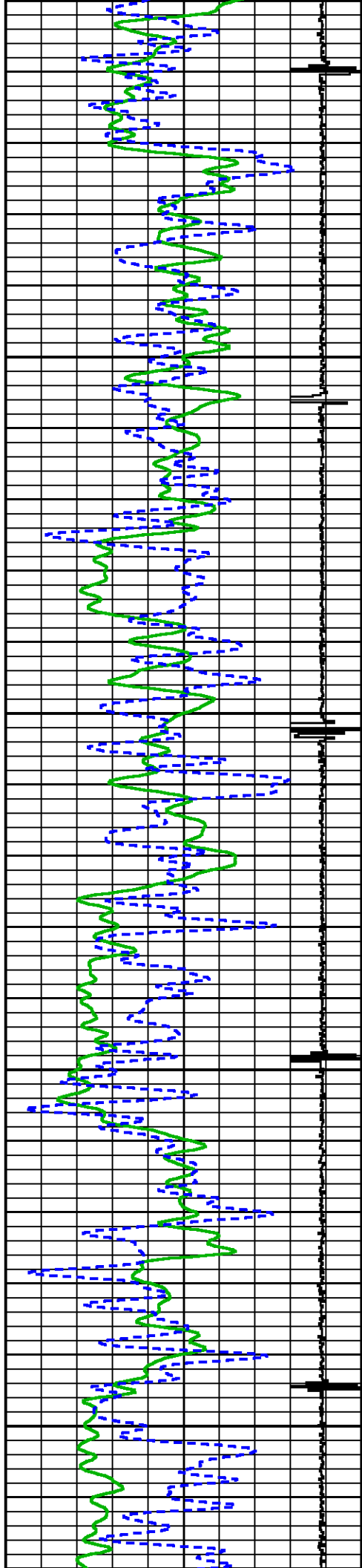


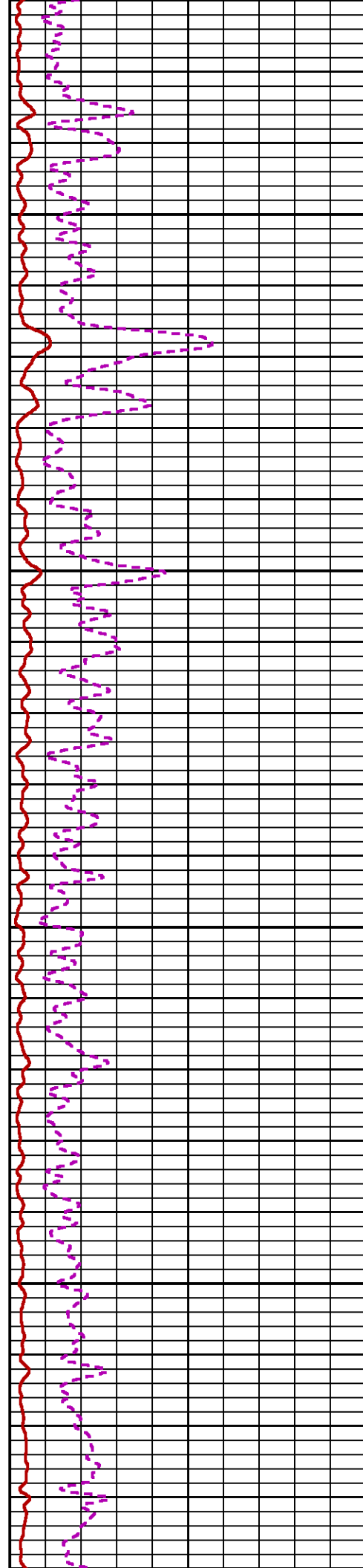
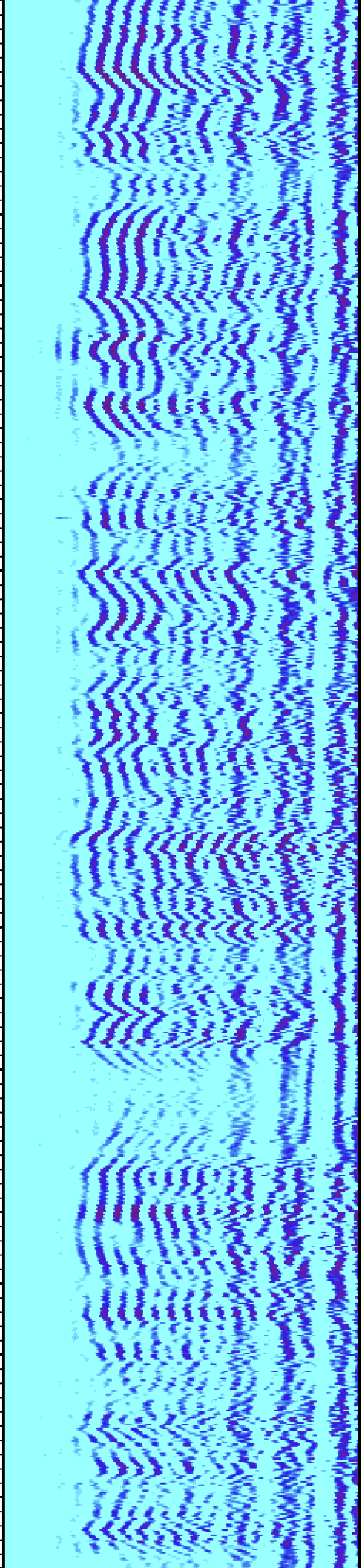


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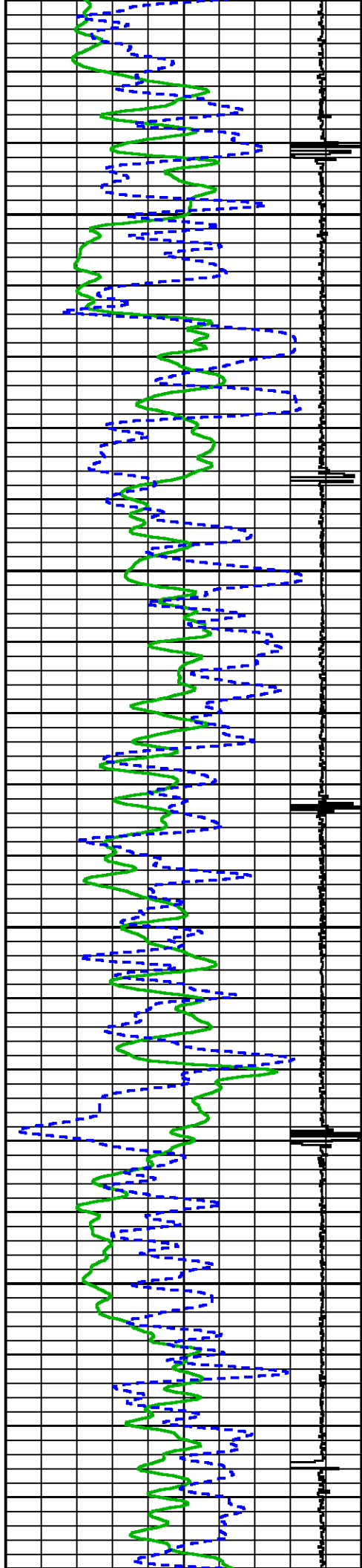
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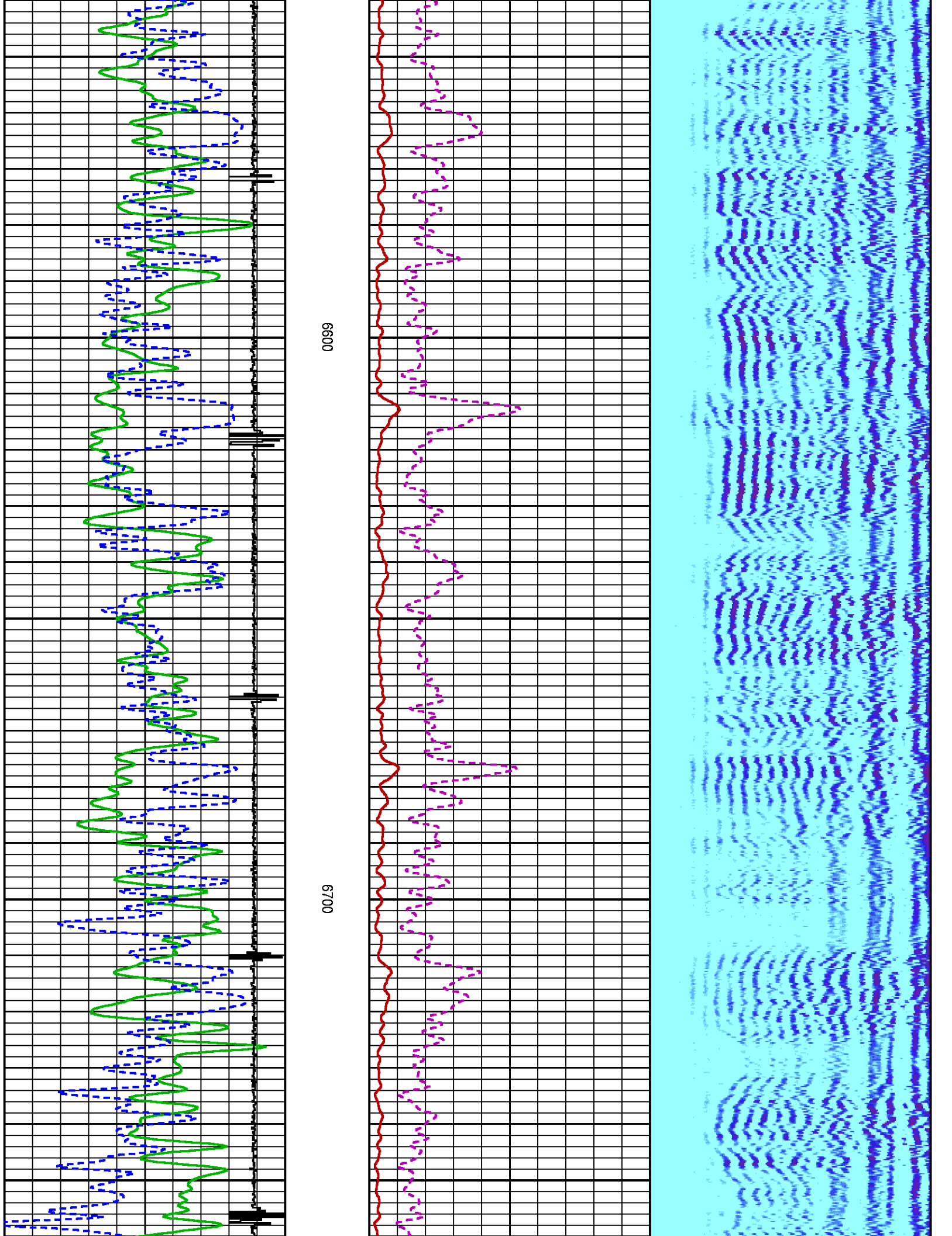


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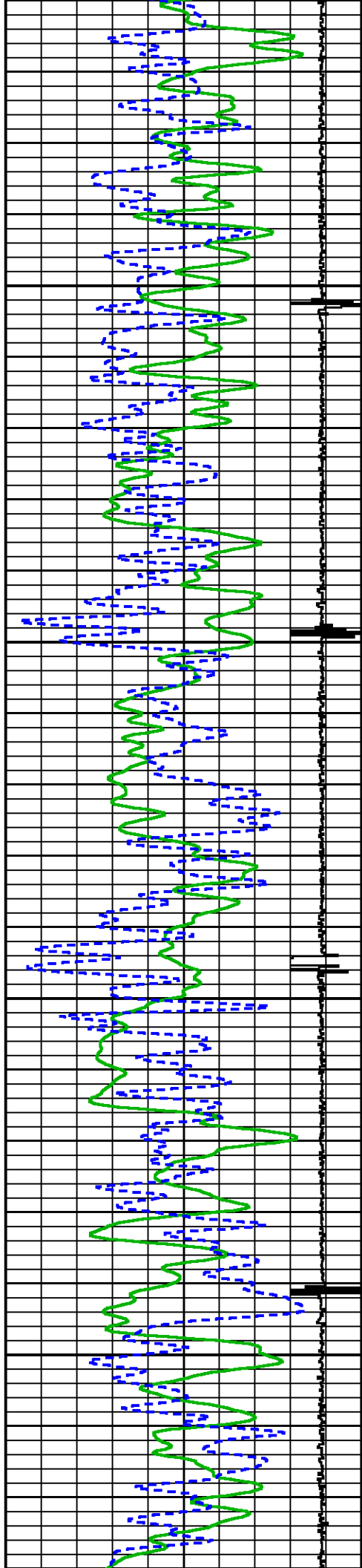






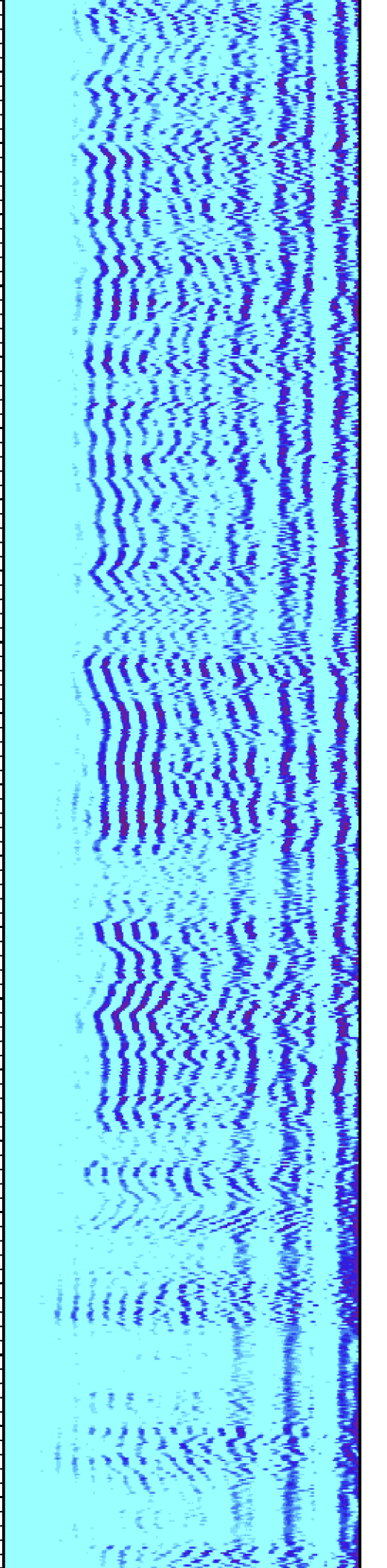
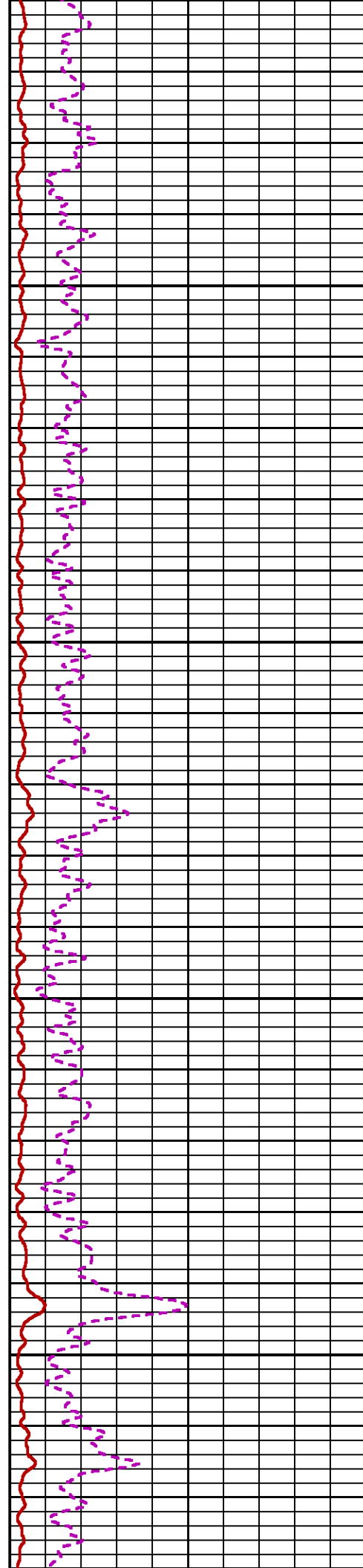
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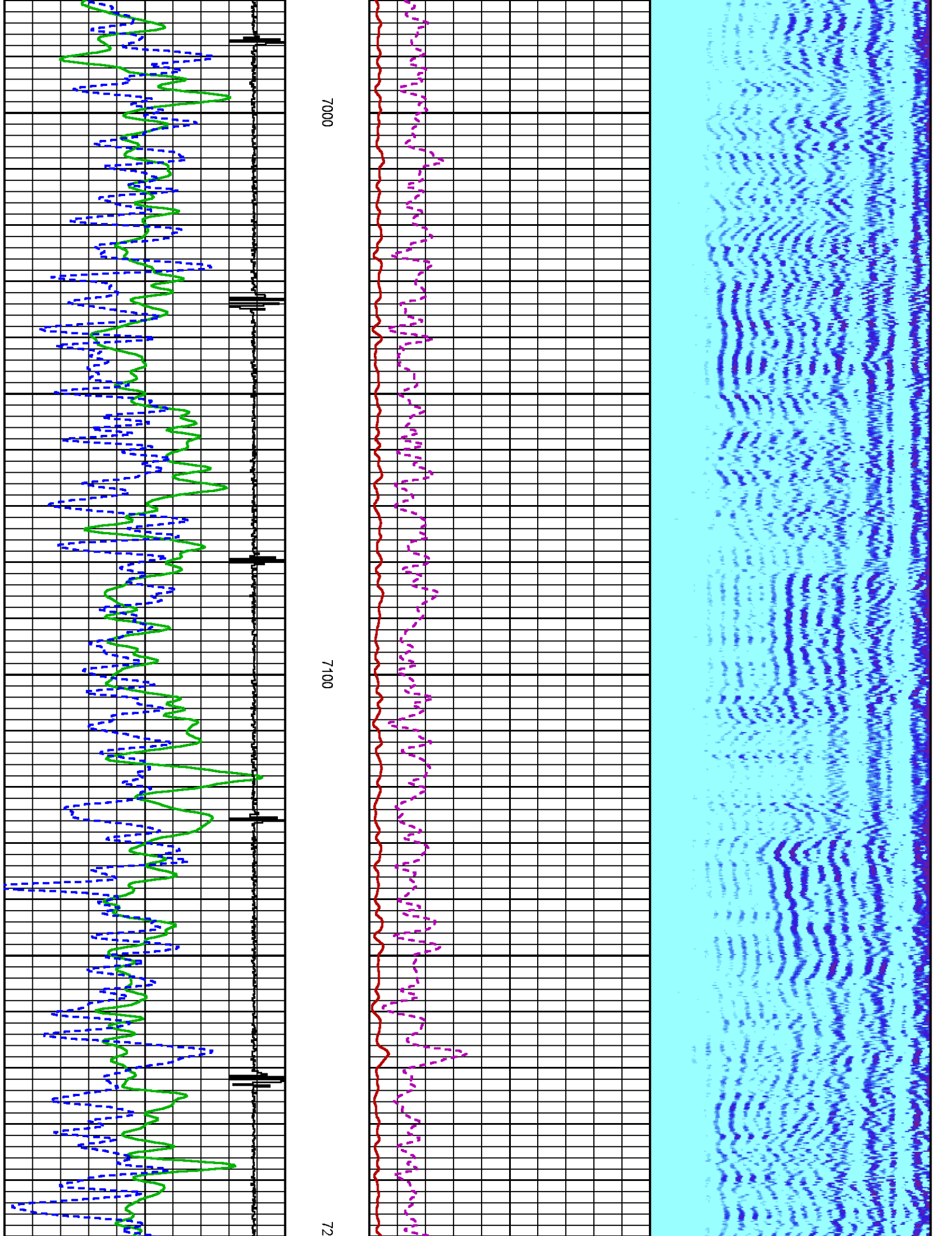
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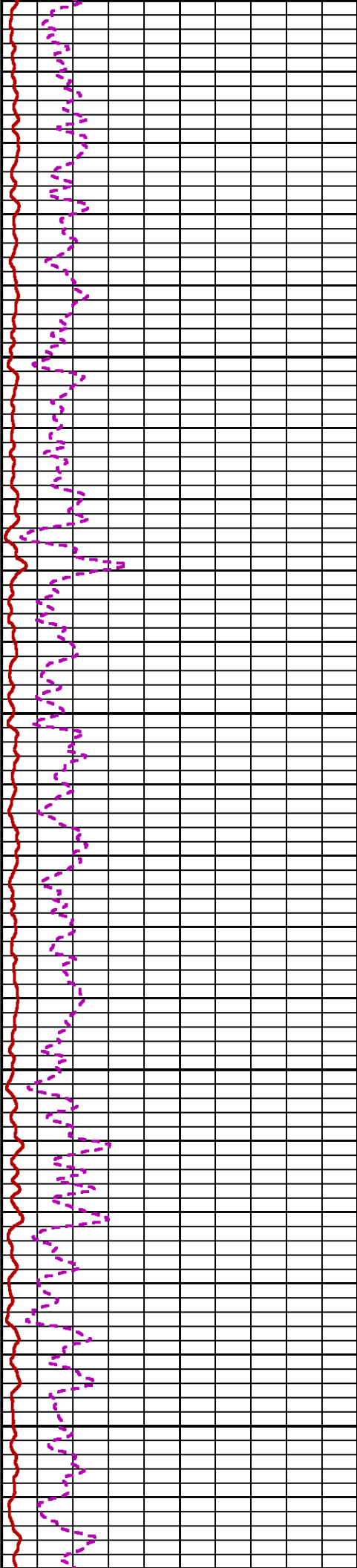
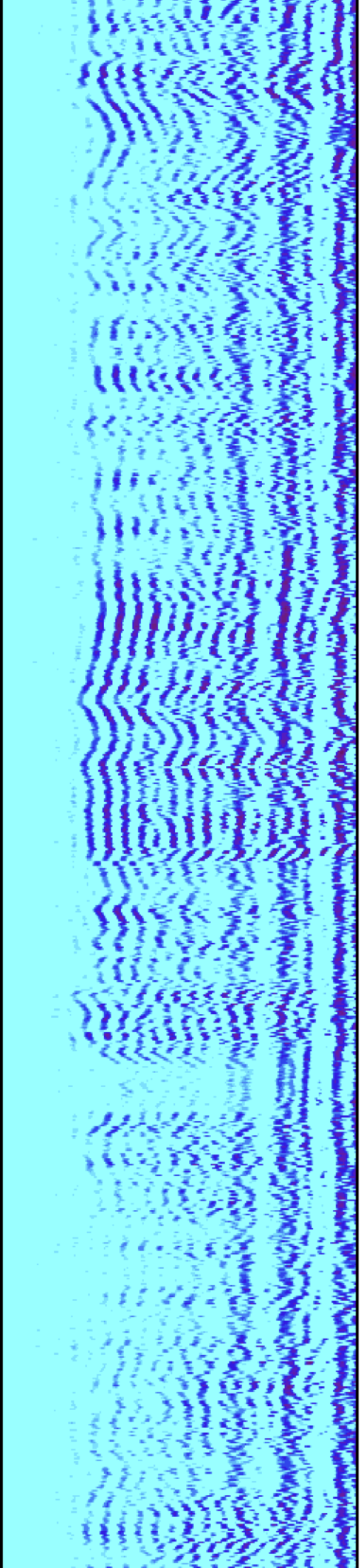


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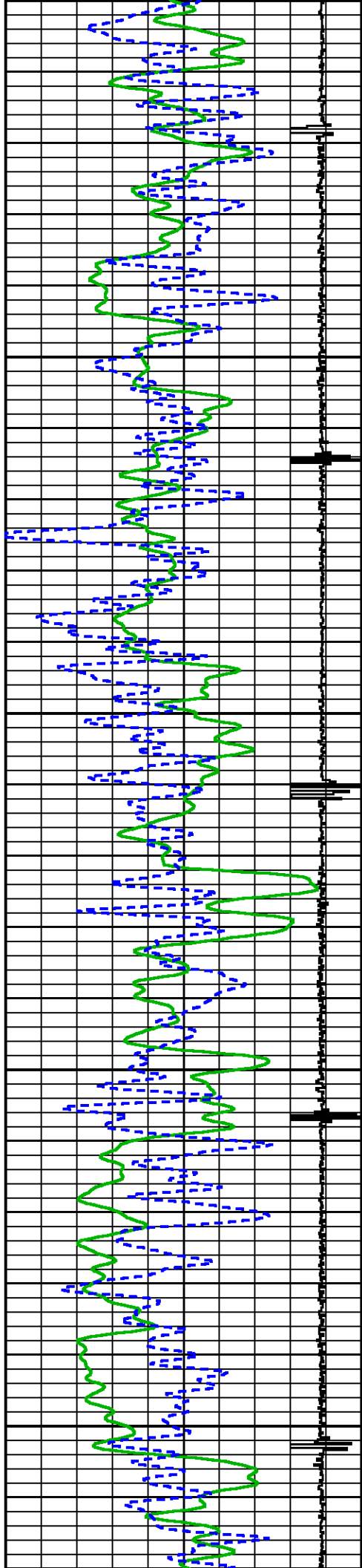




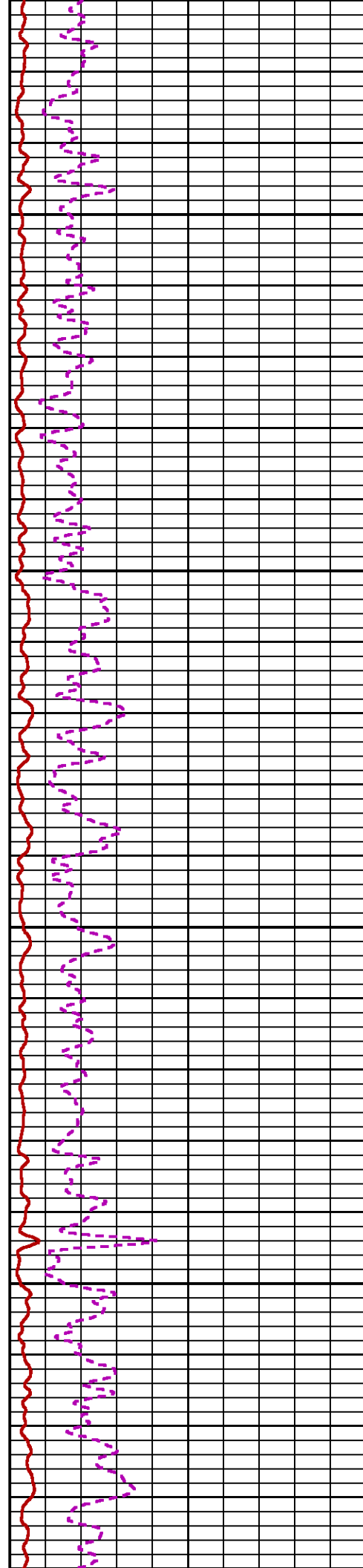
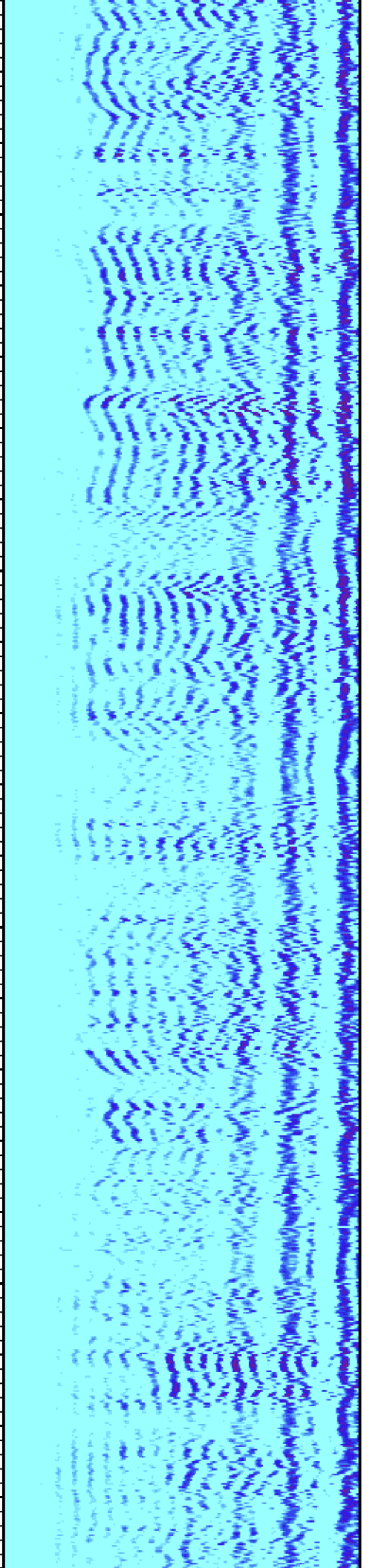
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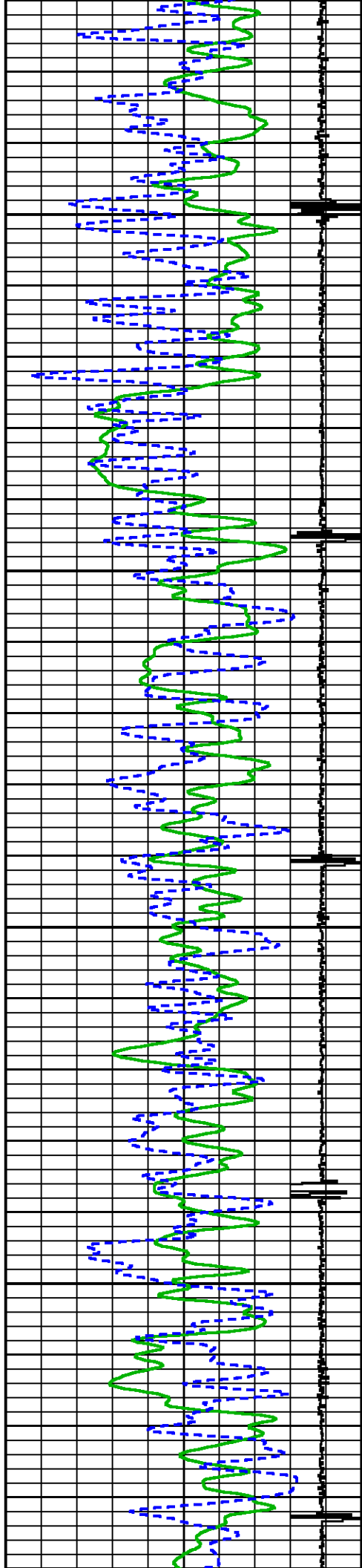


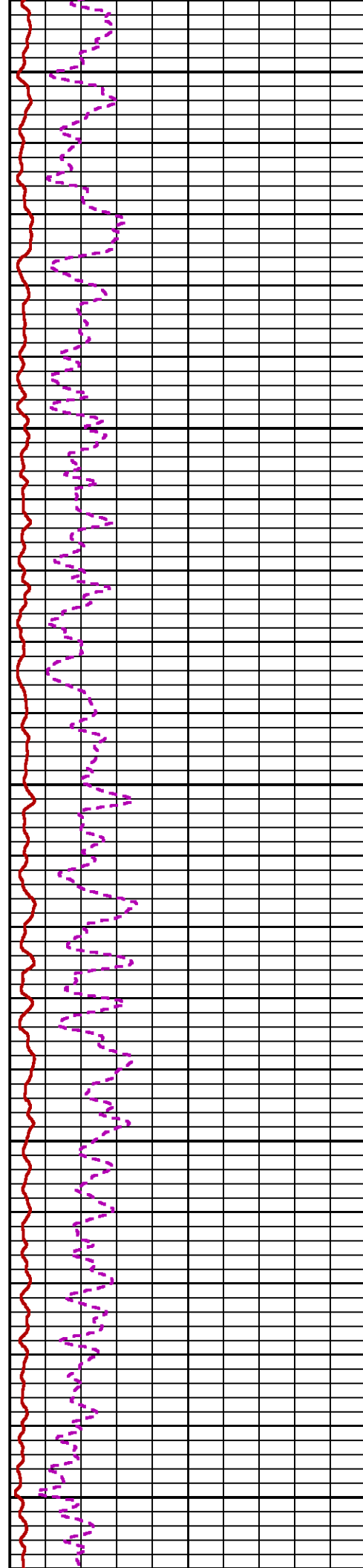
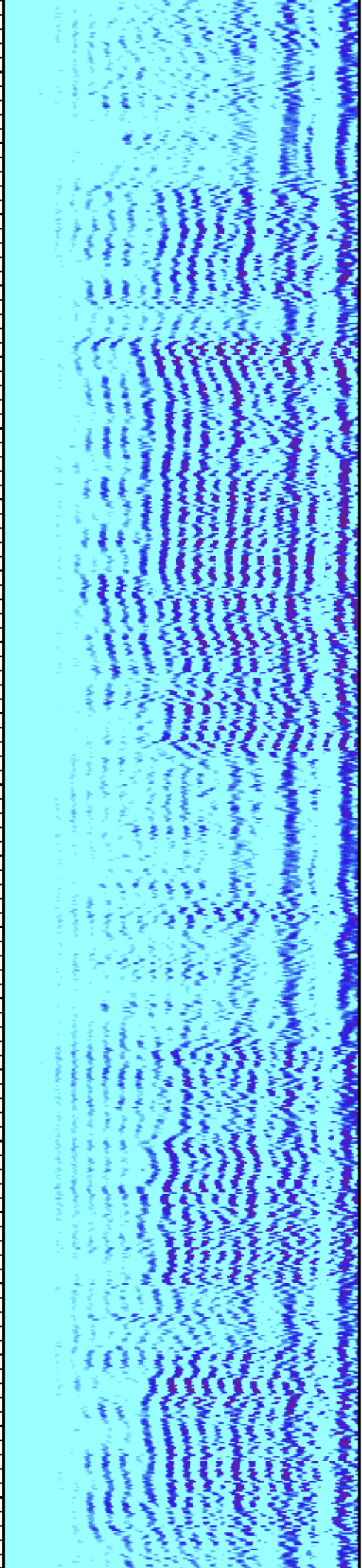




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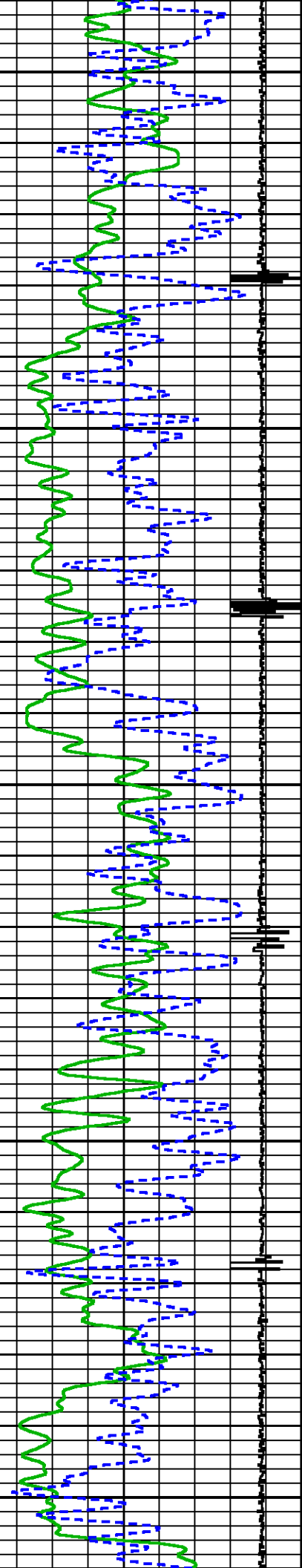
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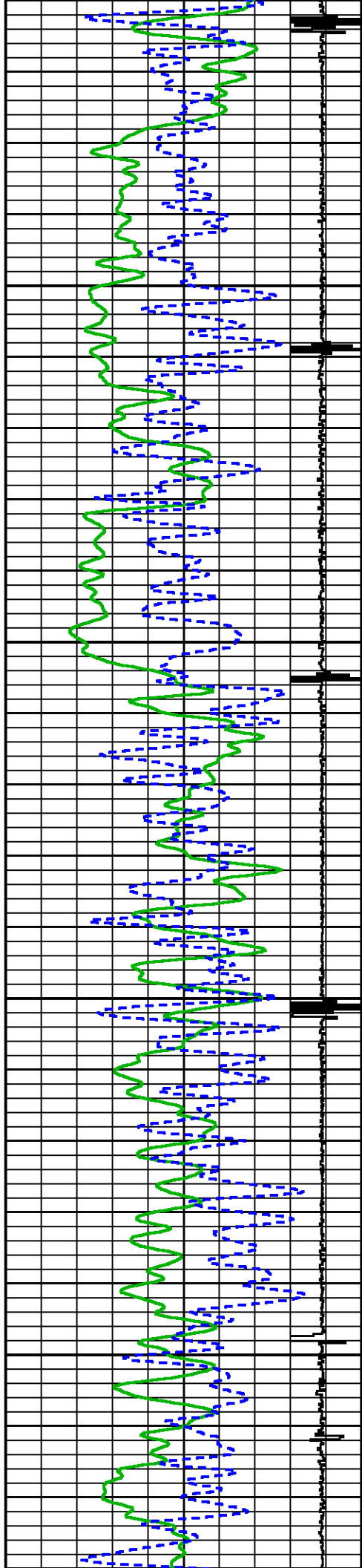




7700

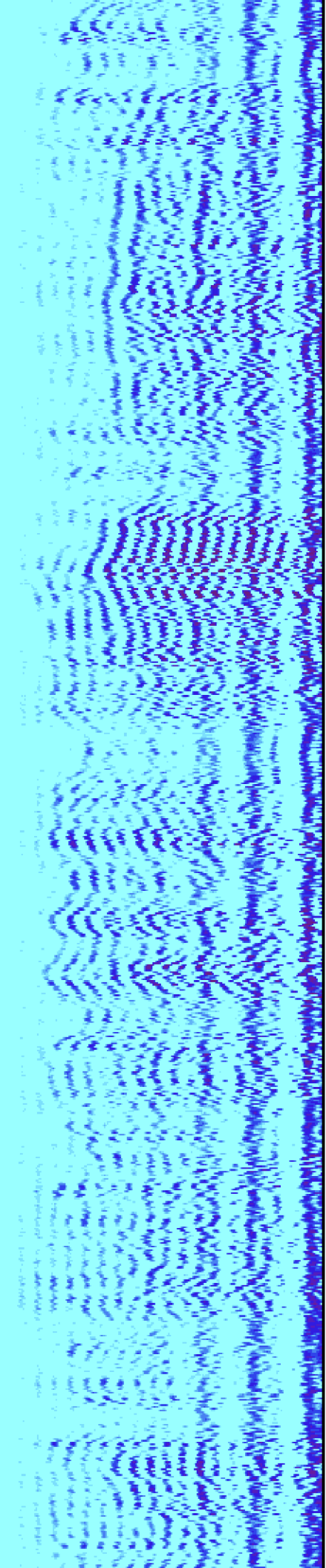
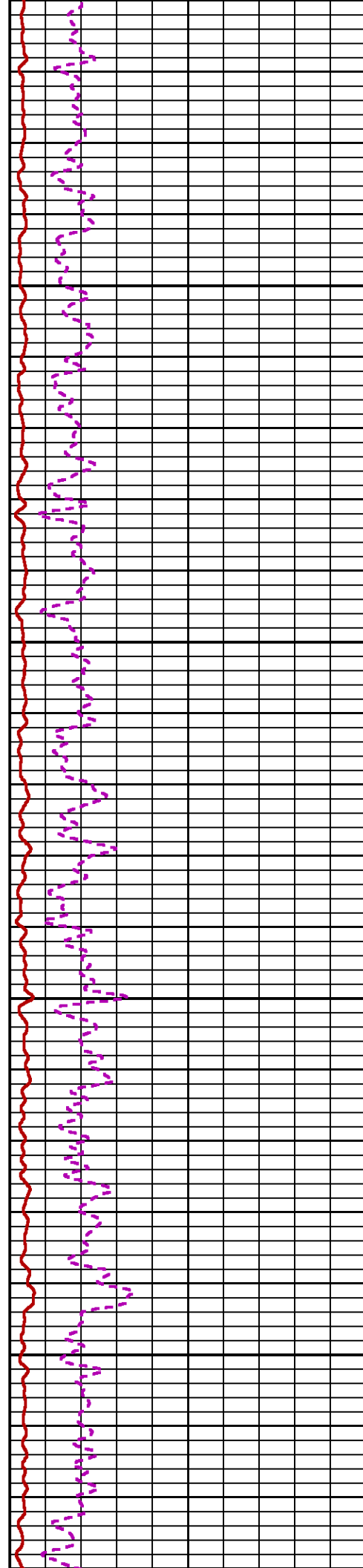
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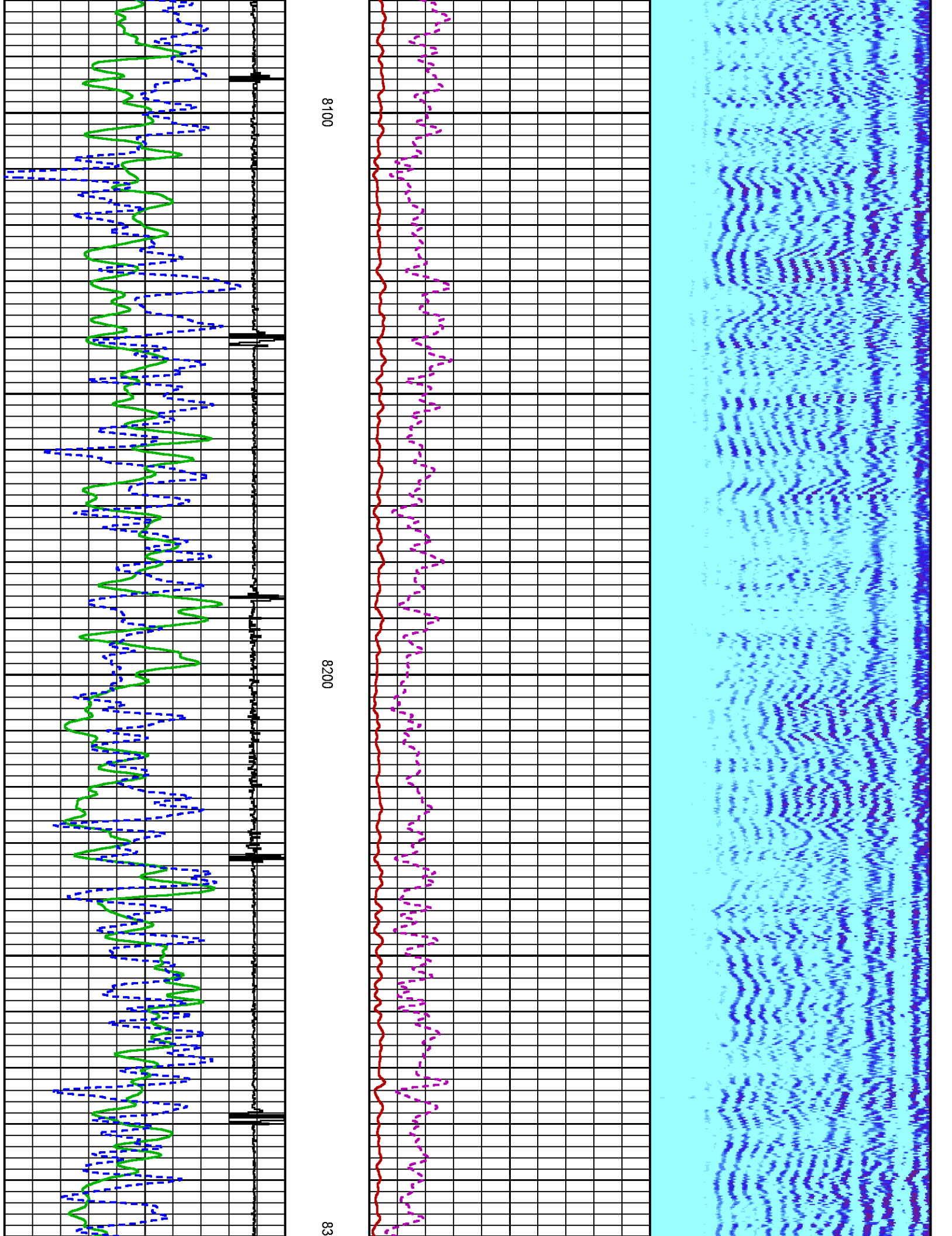




0007

0008



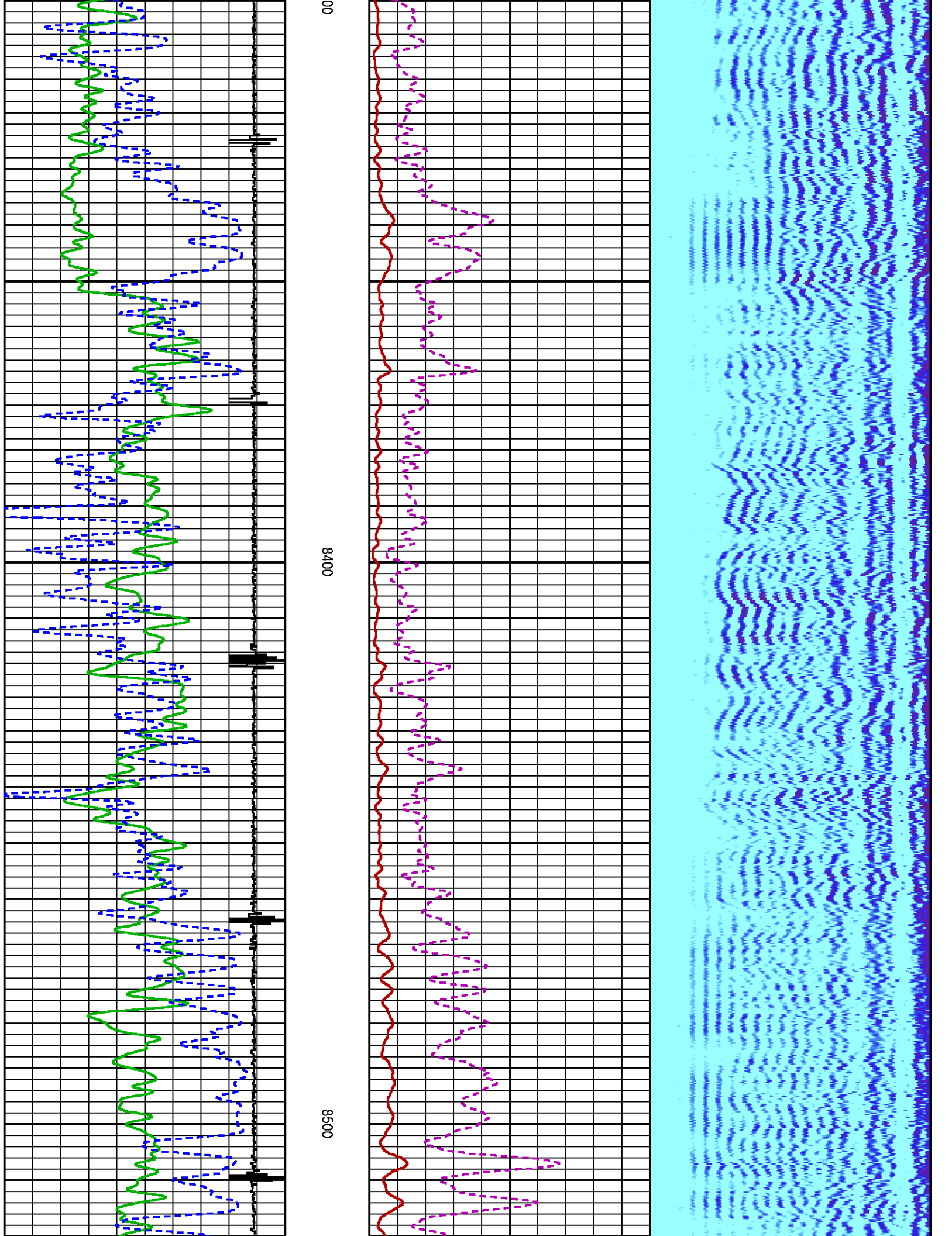


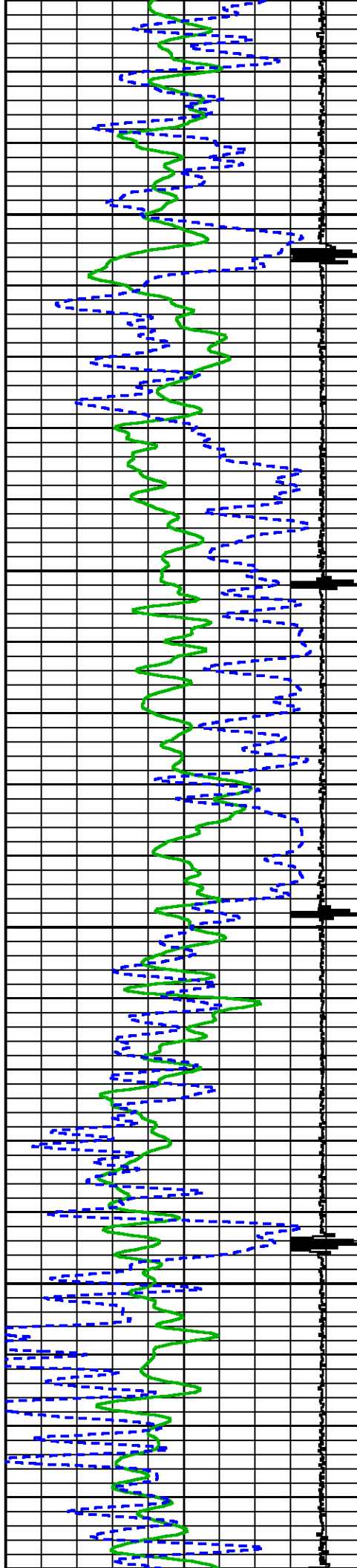
8100

8200

83

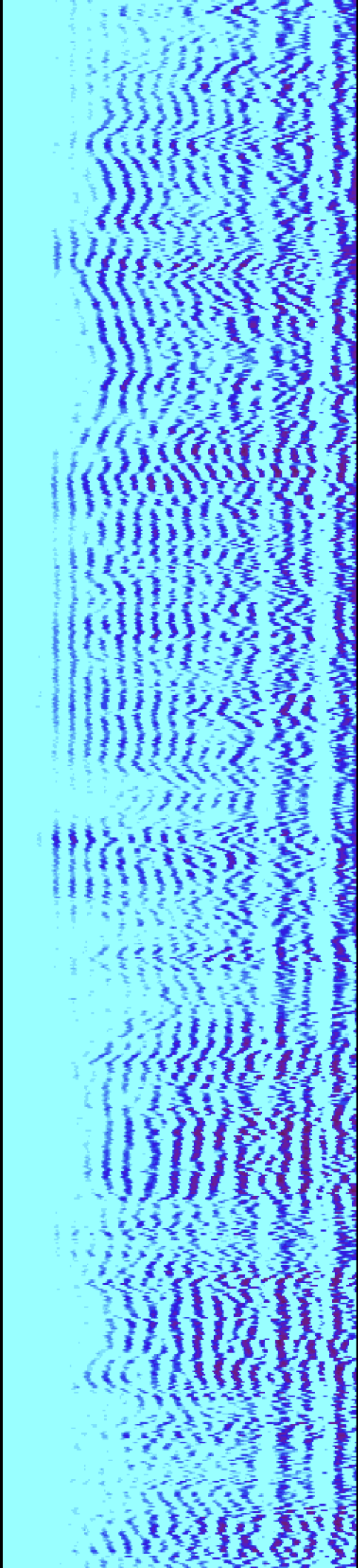
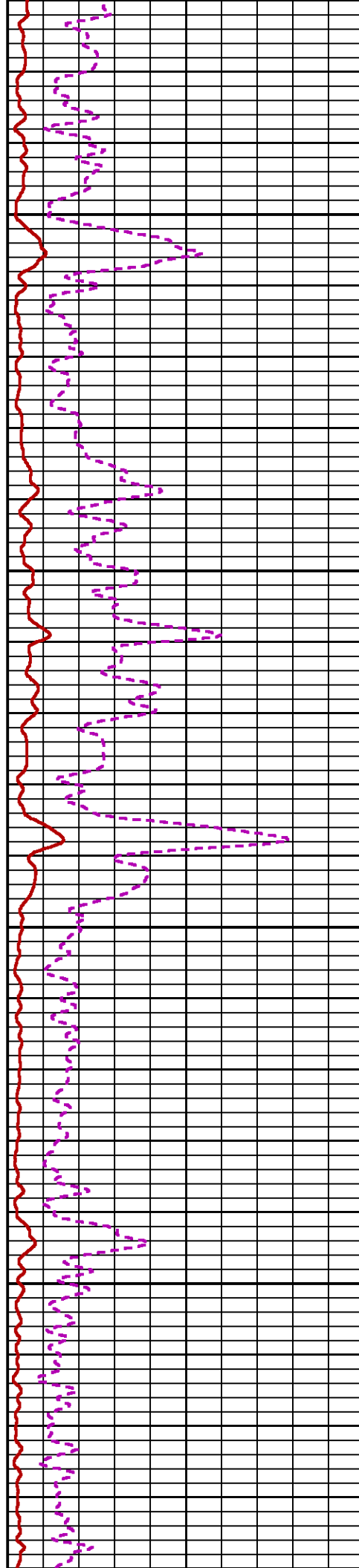


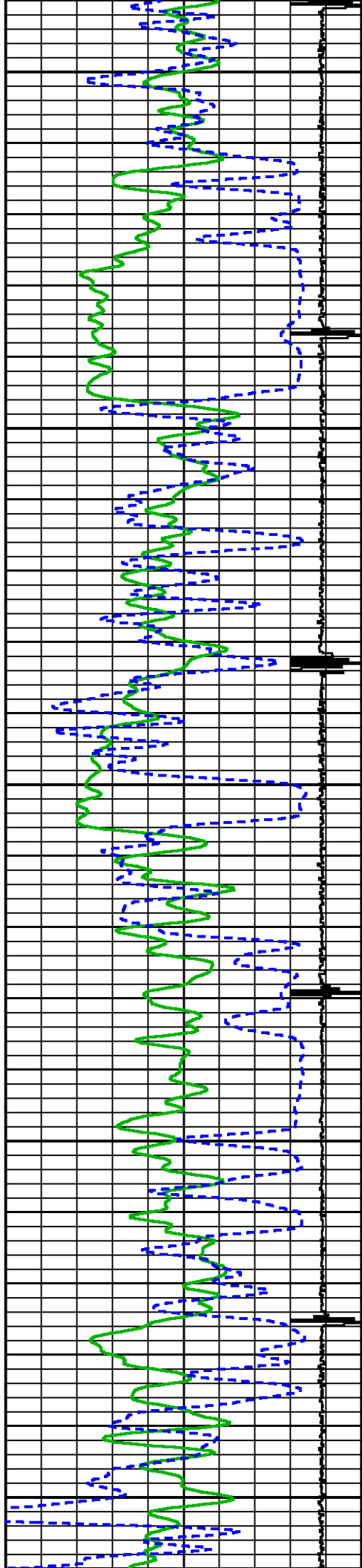




8600

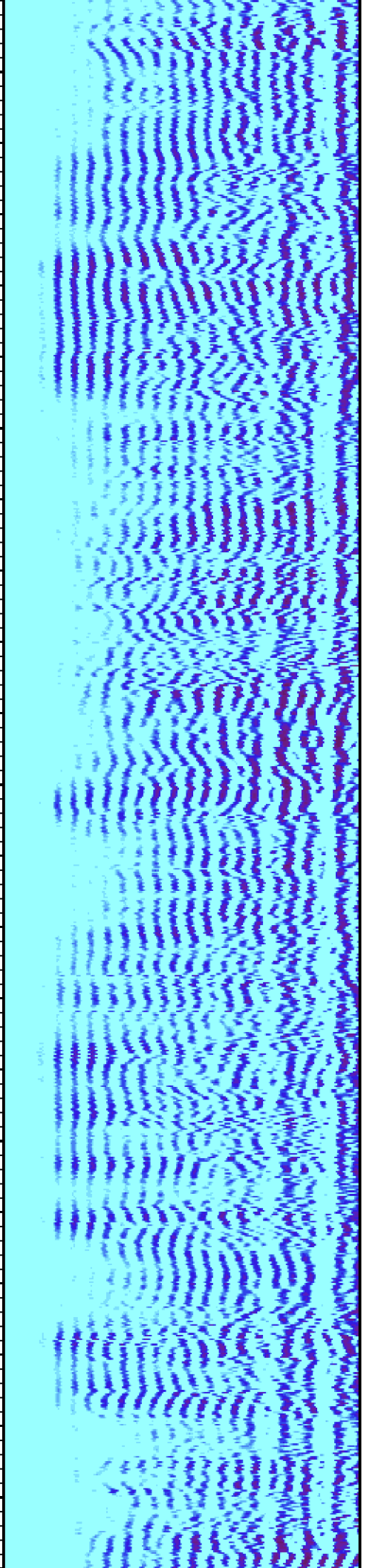
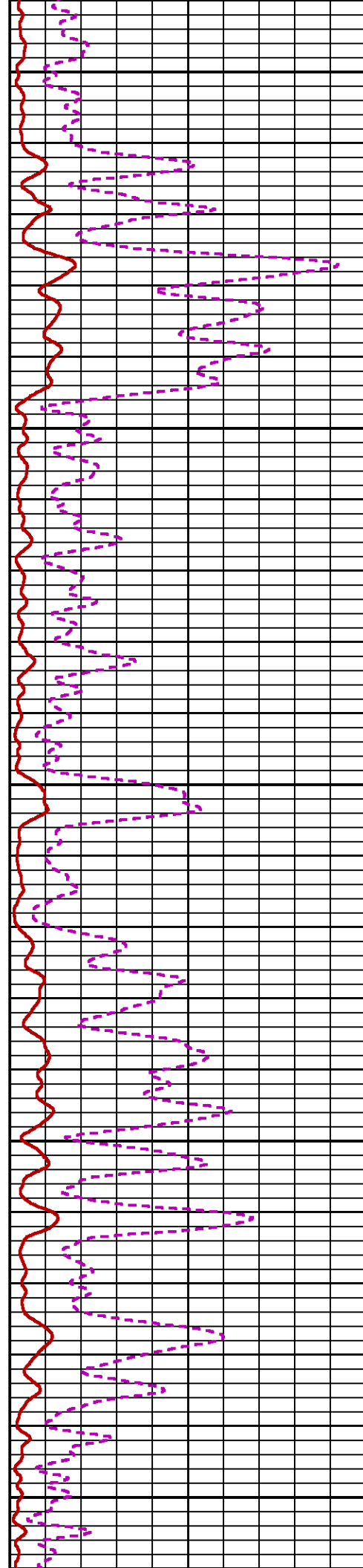
8700

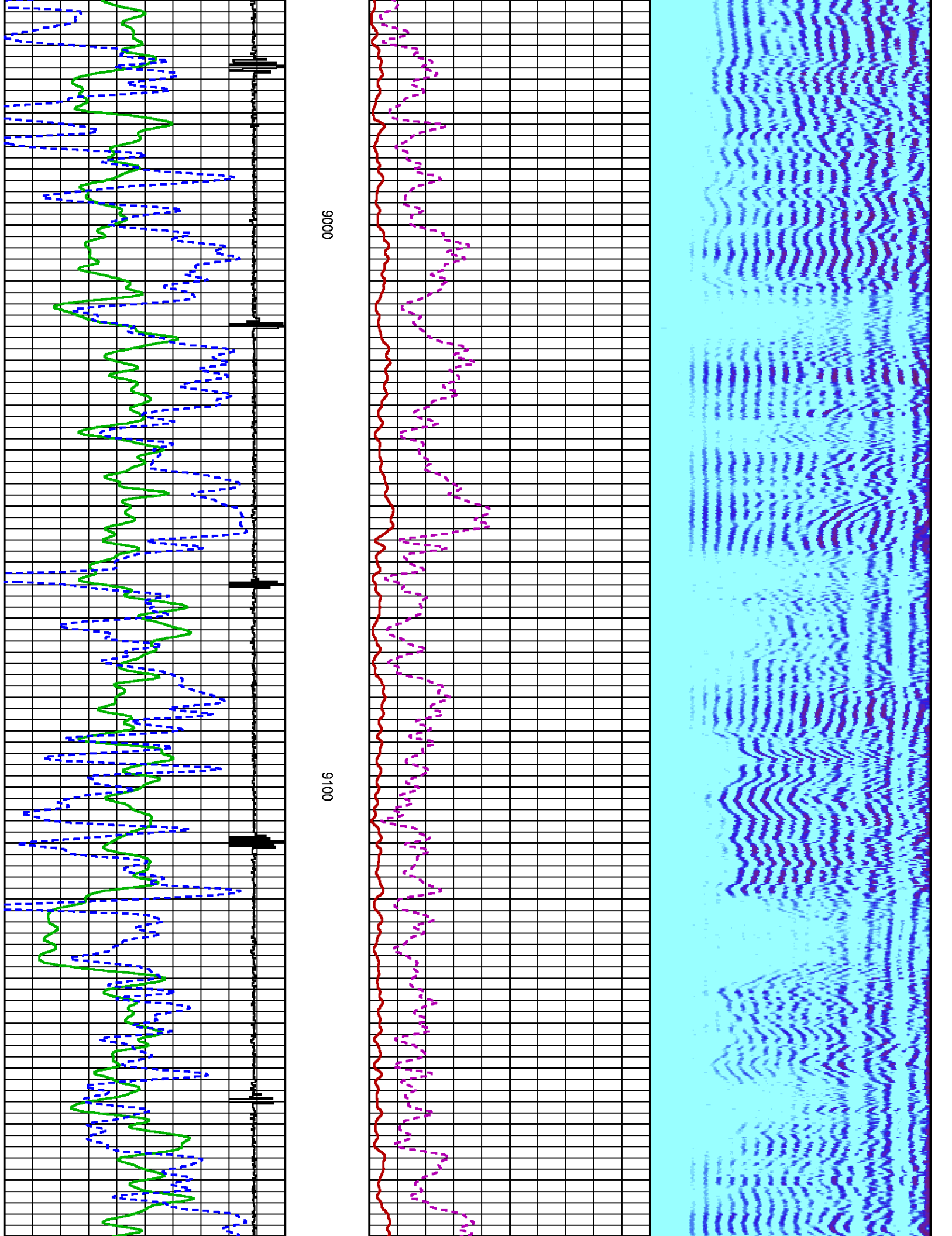




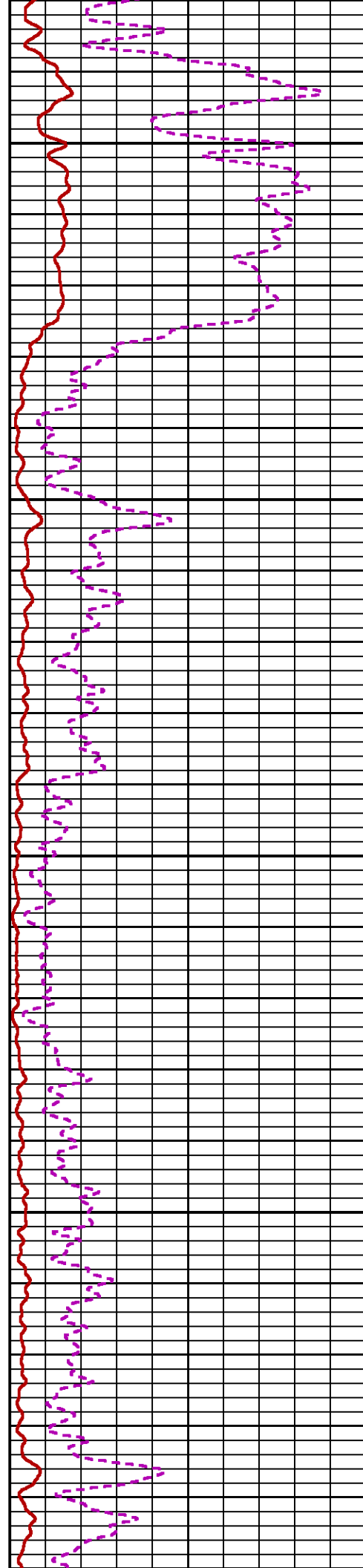
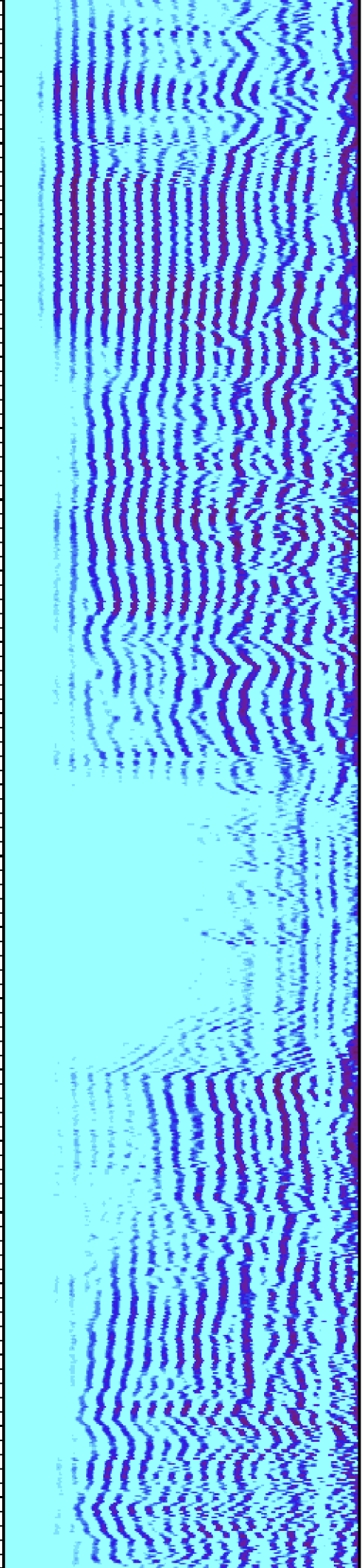
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8900





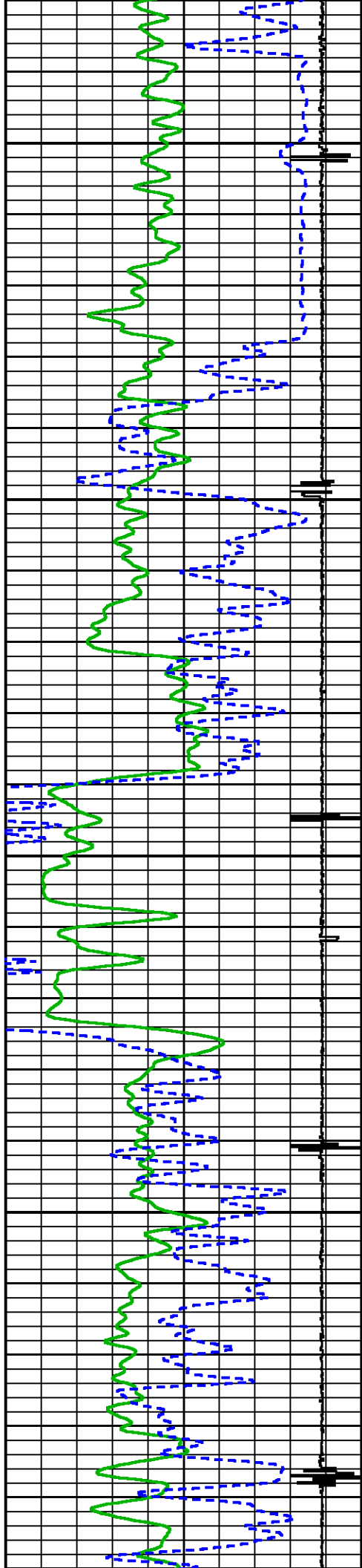


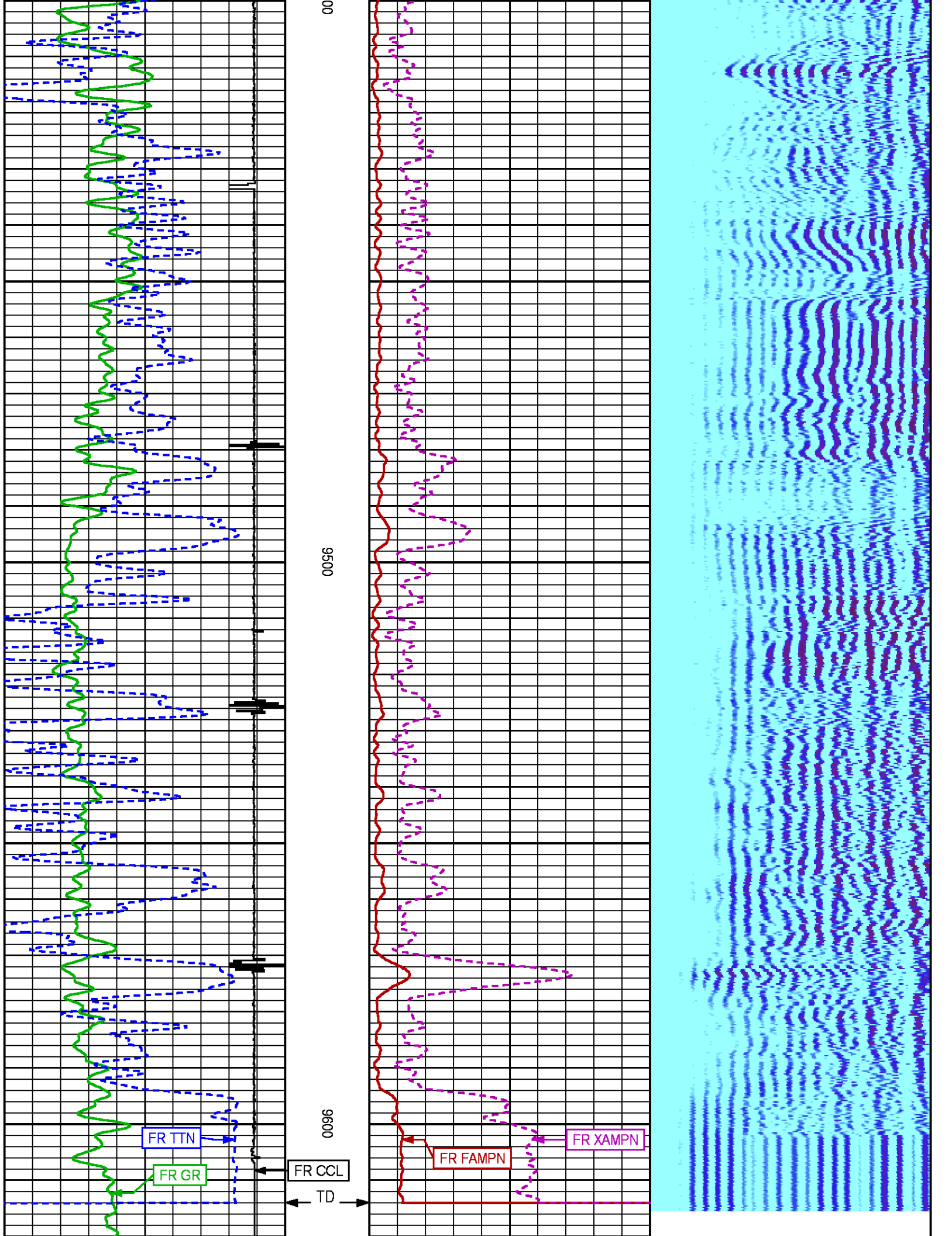


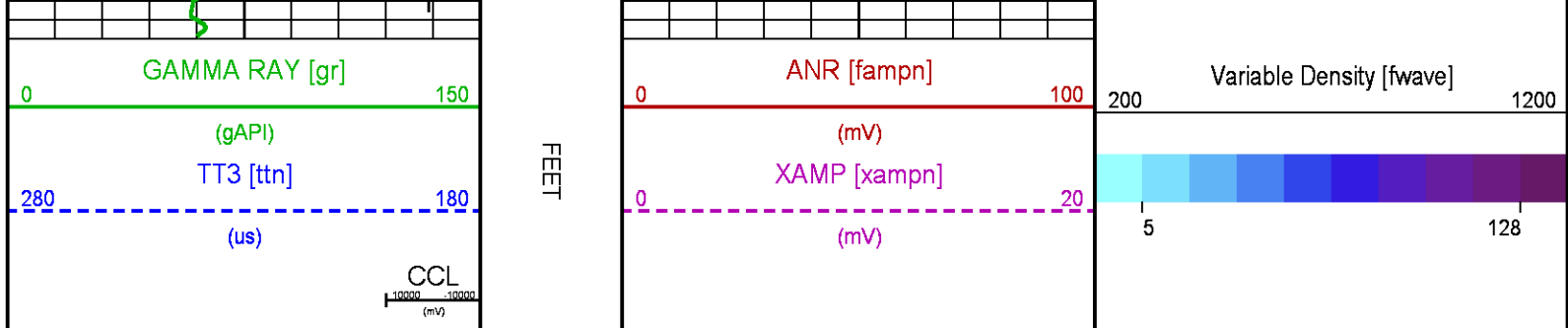
9200

9300

94







## 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: Wed Aug 24 12:19:56 2016

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108950/n012g01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 9309.750 ft BOTTOM DEPTH: 9607.891 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	"	"
	TT WINDOW START (ttn*)	172	us	"	"
	TT WINDOW LENGTH	500	us	"	"
TRAVEL TIME WINDOW (NEAR)	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
	RAL CASING PARAMETERS	200.391	us	"	"
	RAL TOOL DELAY	-69	us	"	"
	BASELINE NOISE (NEAR)	125	us	"	"
	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

### CURVE DESCRIPTION REPORT

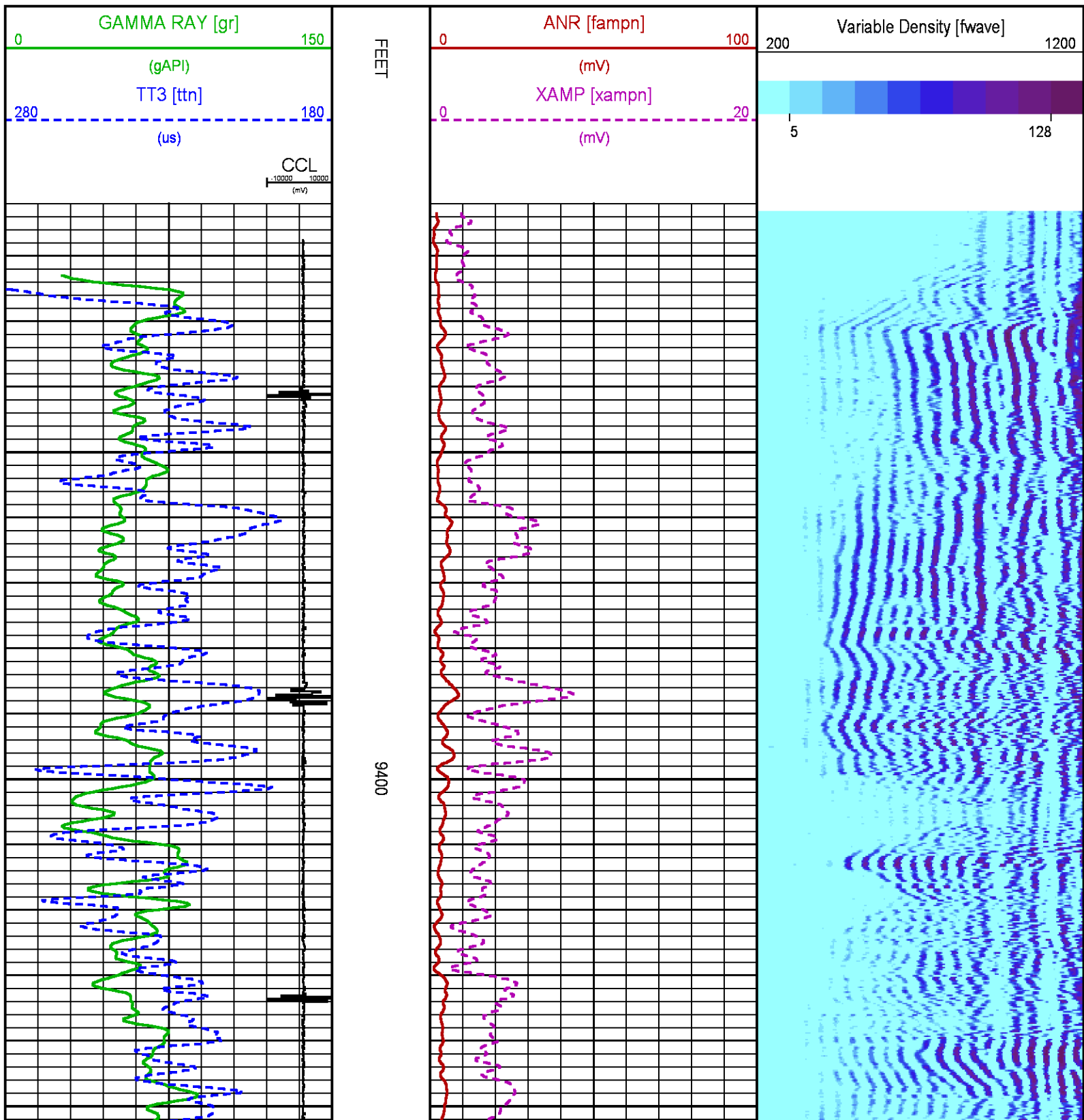
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Aug 24 08:34:11 2016	CASING COLLAR LOCATOR
F1:FAMPN	Aug 24 08:34:11 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 24 08:34:11 2016	FAR WAVE FORM
F1:GR	Aug 24 08:34:11 2016	GAMMA RAY
F1:TTN	Aug 24 08:34:11 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 24 08:34:11 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

### CURVE MEASURE POINT OFFSET

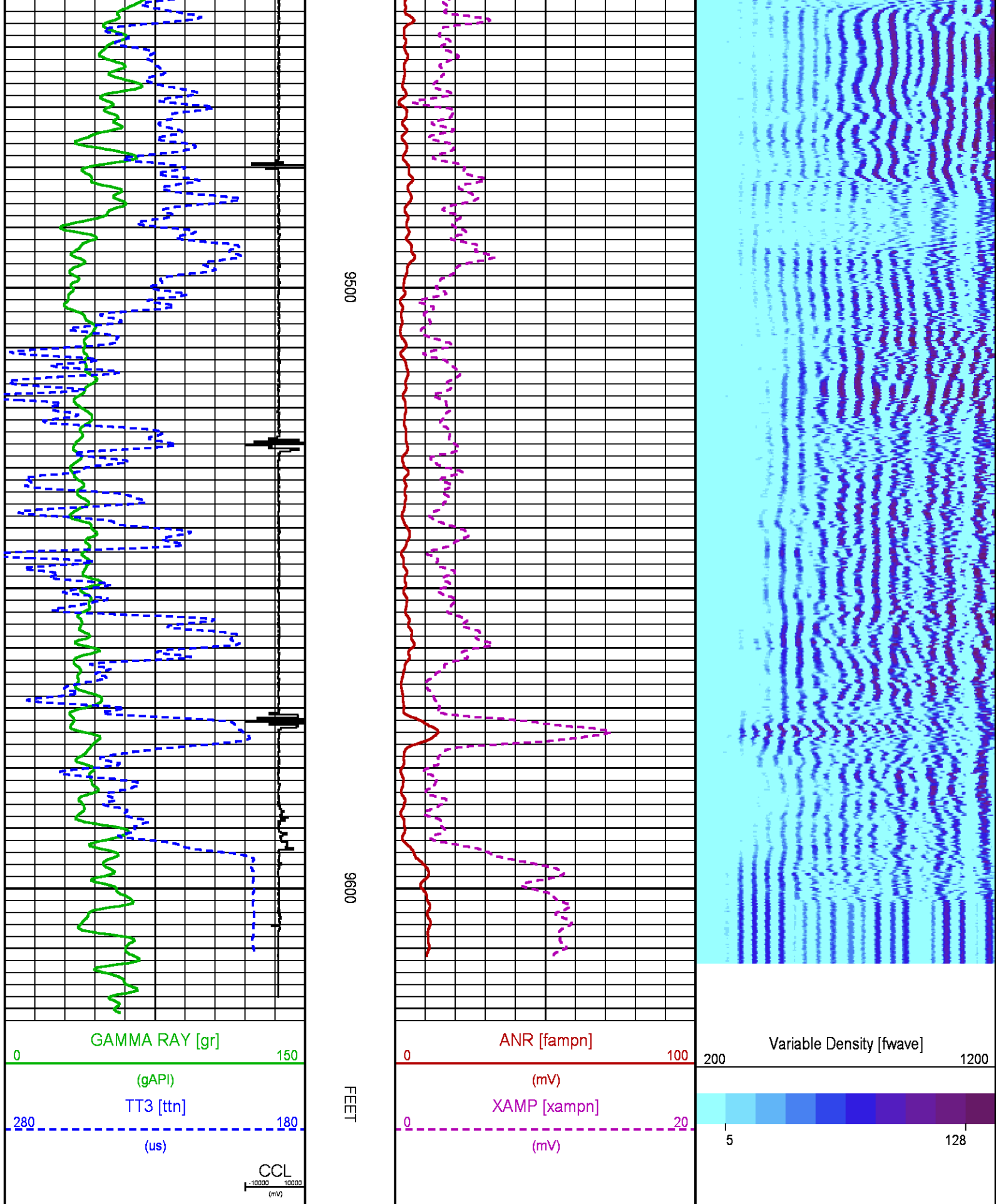
# CURVE MEASURE POINT OFFSET

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/CH108950/523REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 9313.25 - 9622.25 Feet
Data File 1	: F1 : cpu100:/dat1a/CH108950/n012g01REPEAT523.xtf
Created On	: Aug 24 08:34:11 2016
Company	: TEP ROCKY MOUNTAIN LLC
Well	: YOUNBERG RU 523-7
Field	: RULISON
File Interval	: 9312.25 - 9623.75 Feet
OCT	: n012g







# SECONDARY 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: Wed Aug 24 12:23:49 2016

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH108950/n012g02.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 8.750 ft BOTTOM DEPTH: 9612.750 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	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	172	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*)	-69	us	"	"
	TOOL DELAY (str2*)	-69	us	"	"
	TOOL DELAY (str3*)	-69	us	"	"
	TOOL DELAY (str4*)	-69	us	"	"
	TOOL DELAY (str5*)	-69	us	"	"
	TOOL DELAY (str6*)	-69	us	"	"
	TOOL DELAY (str7*)	-69	us	"	"
	TOOL DELAY (str8*)	-69	us	"	"
	TOOL DELAY (strn*)	-69	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

### PERCENT BOND CEMENT MAP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	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

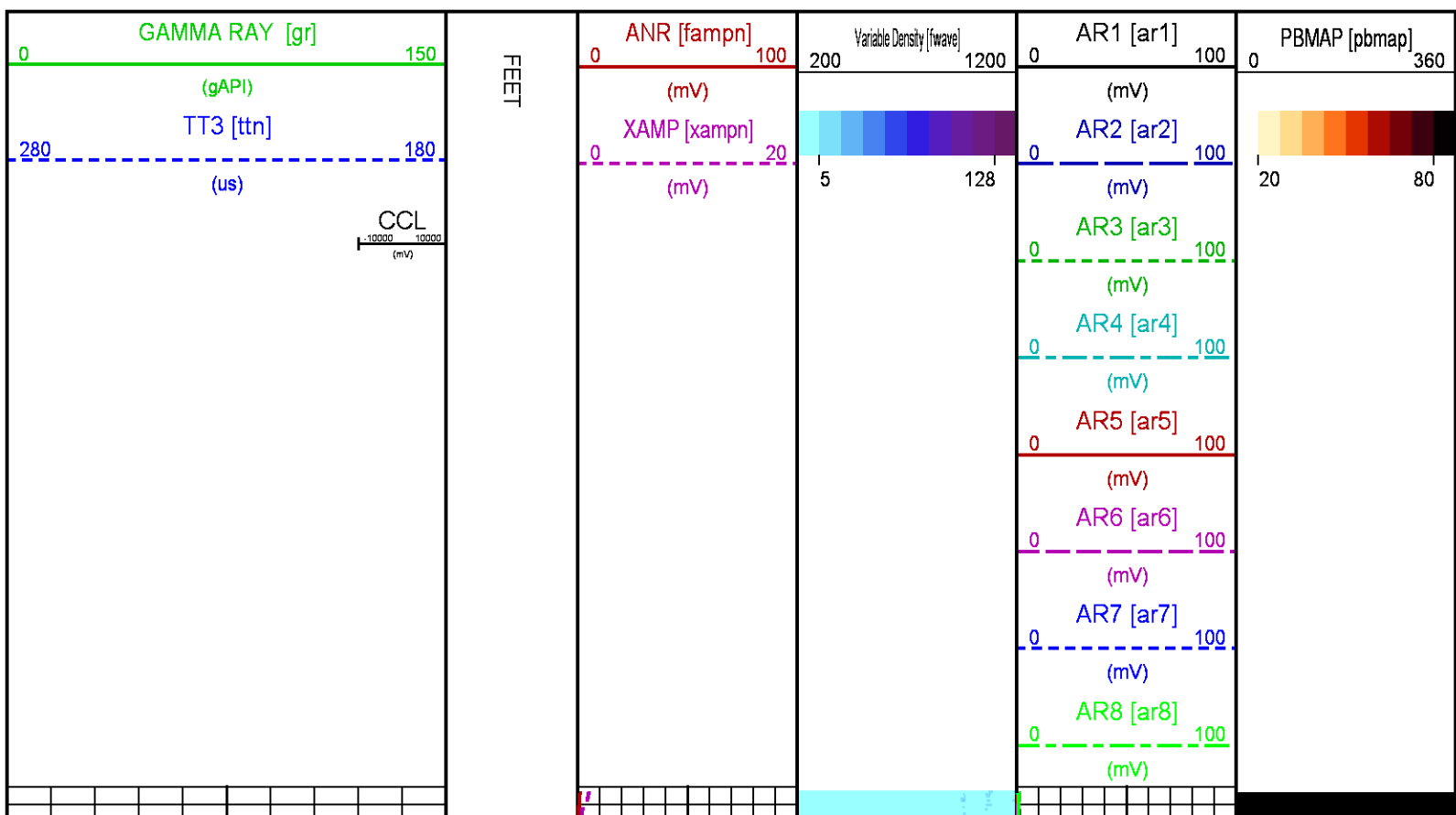
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Aug 24 08:46:15 2016	CASING COLLAR LOCATOR
F1:FAMPN	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Aug 24 08:46:15 2016	FAR WAVE FORM
F1:GR	Aug 24 08:46:15 2016	GAMMA RAY
F1:PBMAP	Aug 24 08:46:15 2016	PERCENT BOND CEMENT MAP
F1:TTN	Aug 24 08:46:15 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Aug 24 08:46:15 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

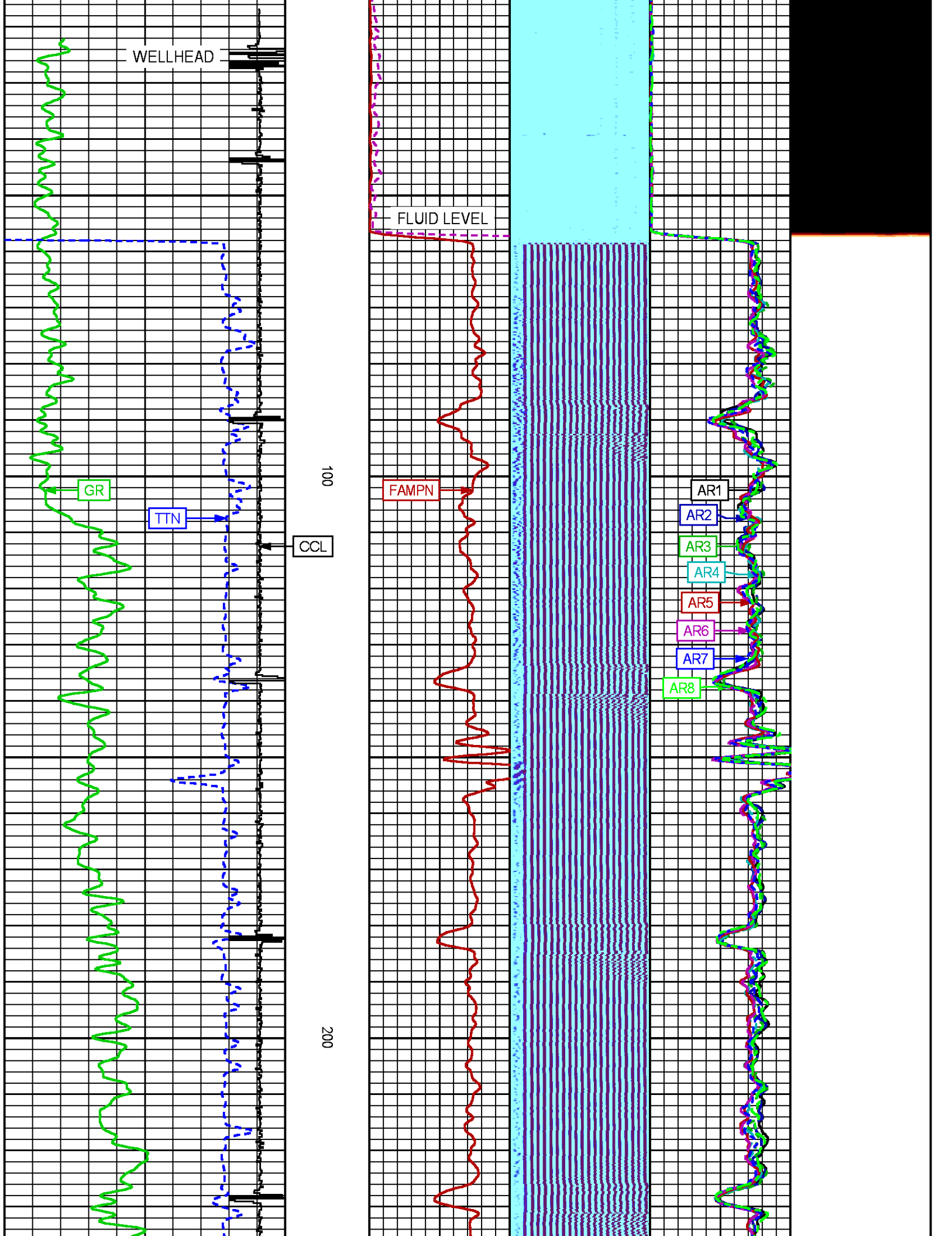
## CURVE MEASURE POINT OFFSET

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		

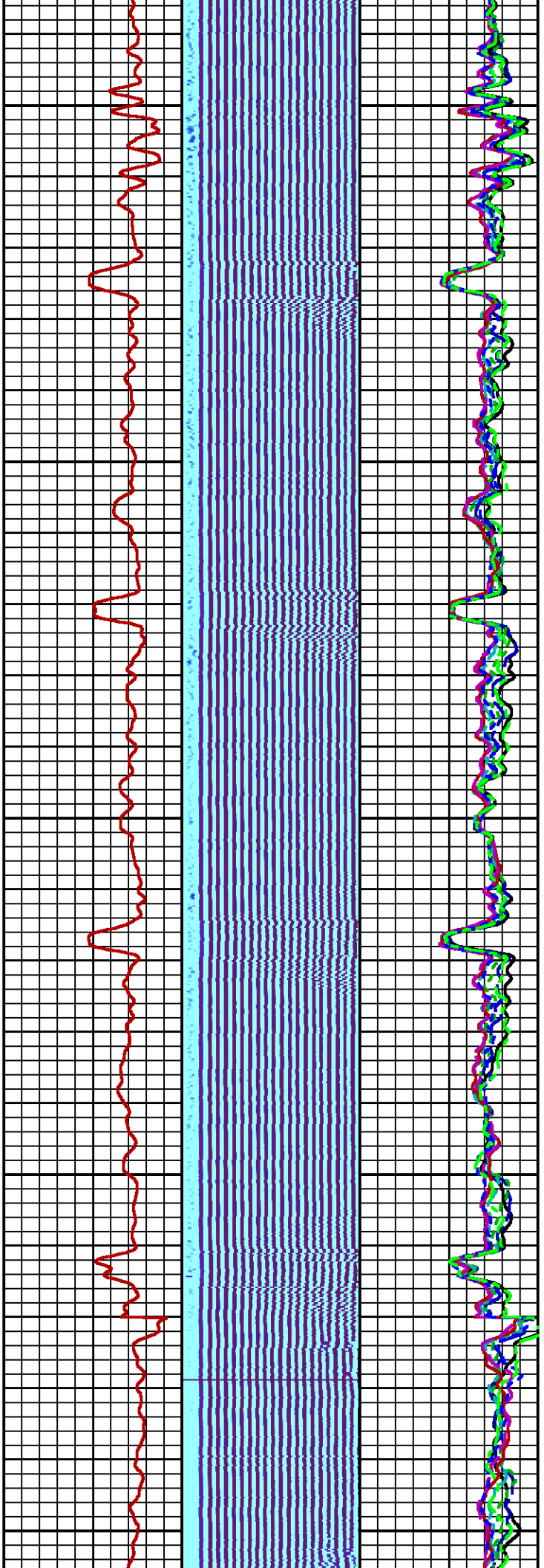
**Presentation** : cpu100:/dat1a/CH108950/523MAIN2.fvpdf [5"/100' Scale]  
**Plot Interval** : 12.5 - 9625.5 Feet

**Data File 1** : F1 : cpu100:/dat1a/CH108950/n012g02MAIN523.xtf  
**Created On** : Aug 24 08:46:15 2016  
**Company** : TEP ROCKY MOUNTAIN LLC  
**Well** : YOUNBERG RU 523-7  
**Field** : RULISON  
**File Interval** : 11.5 - 9626.75 Feet  
**OCT** : n012g



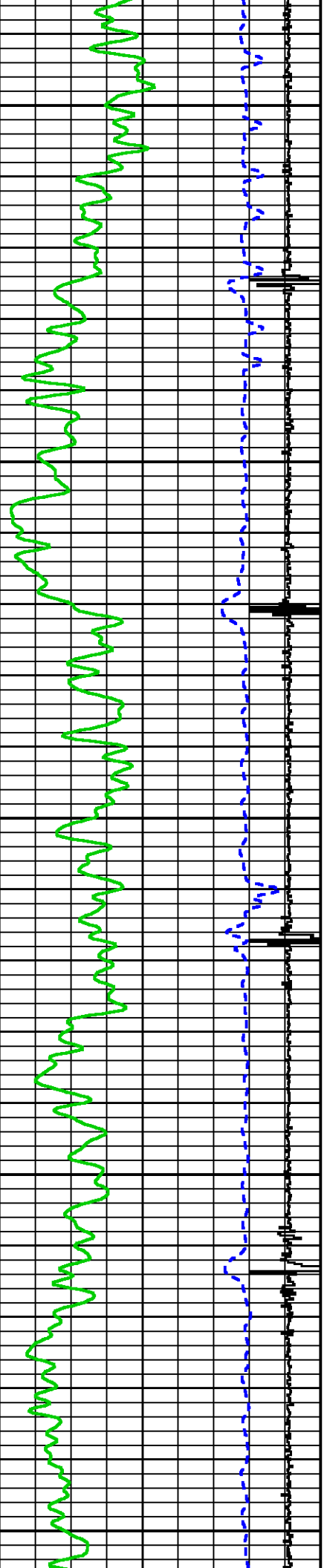


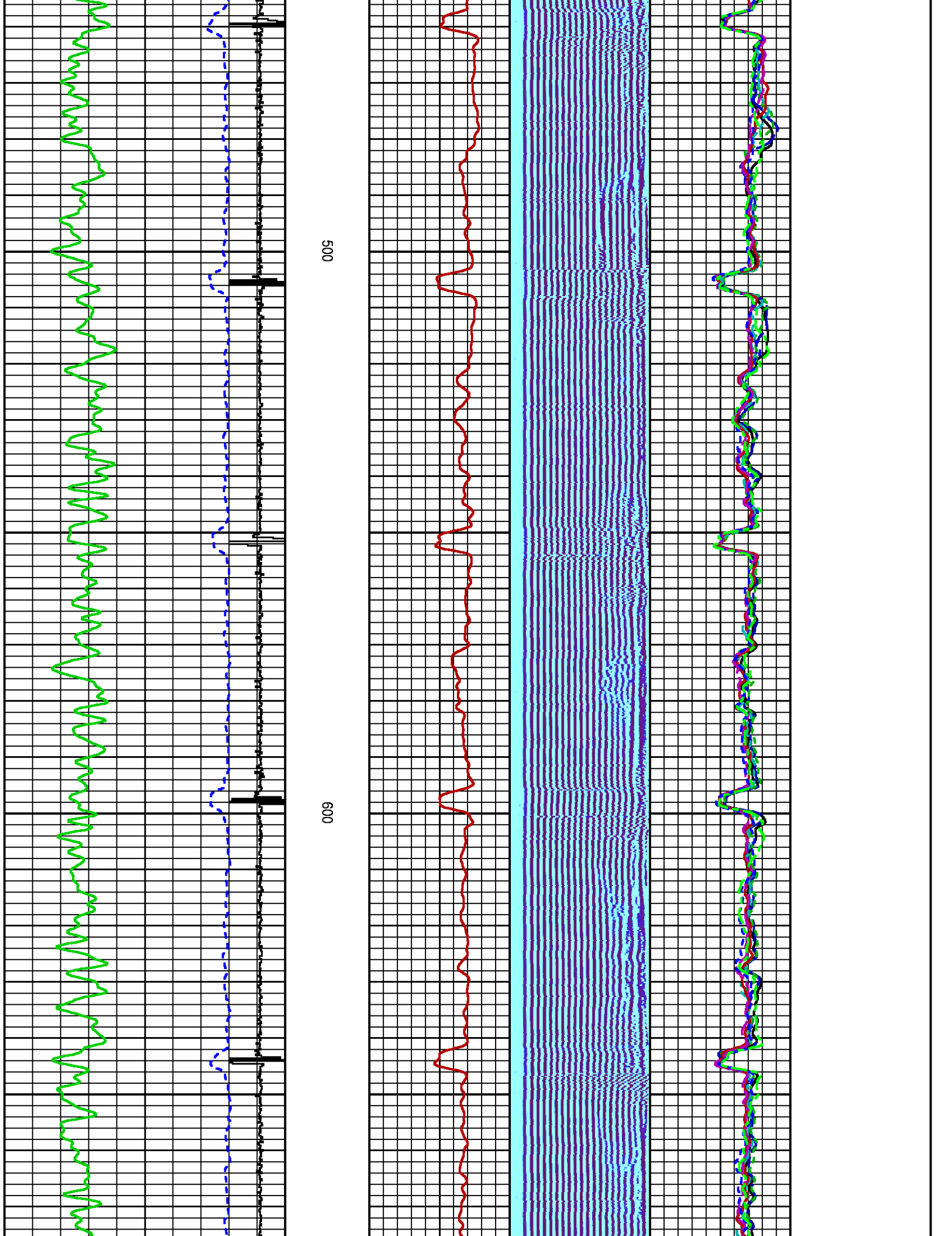


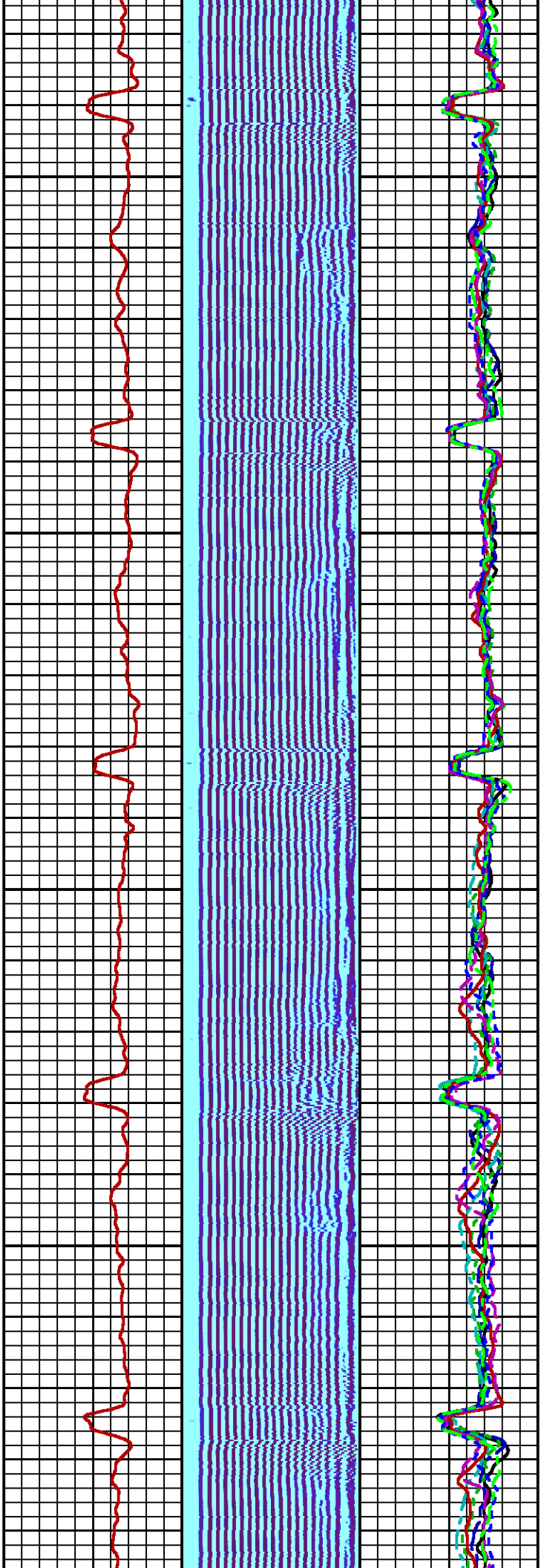


300

400

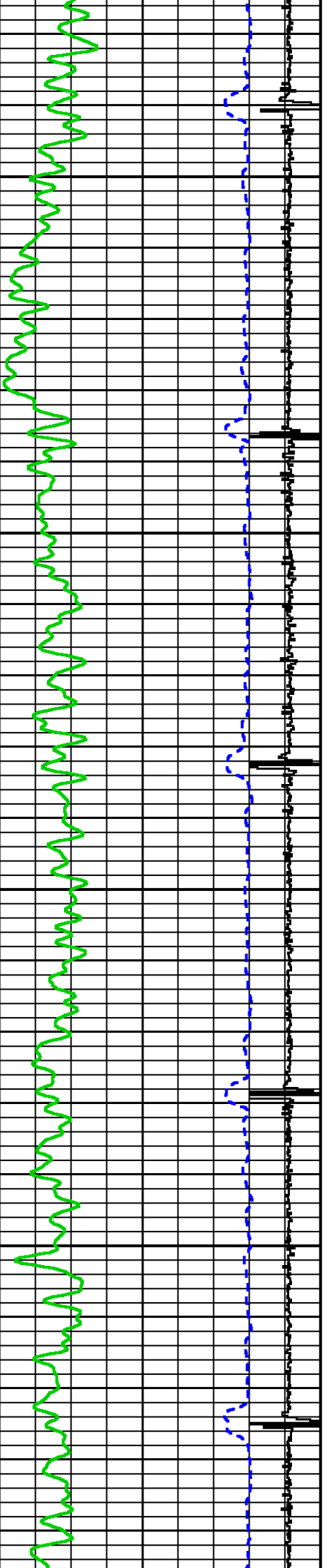


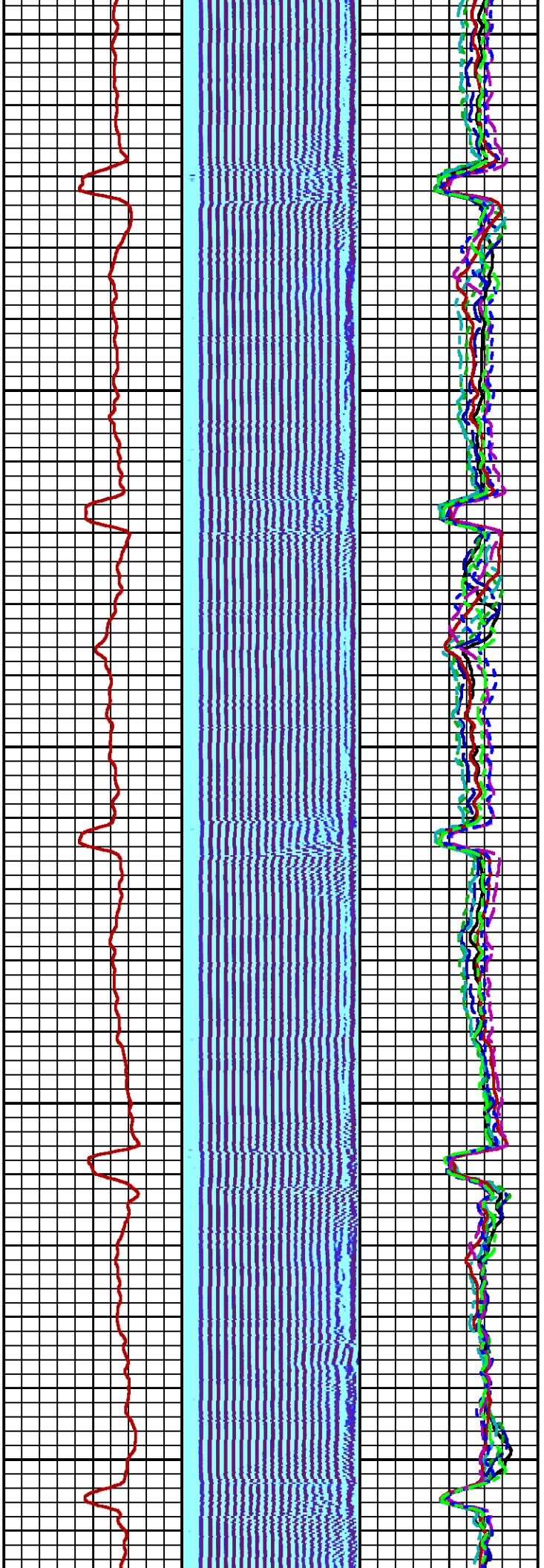




700

800

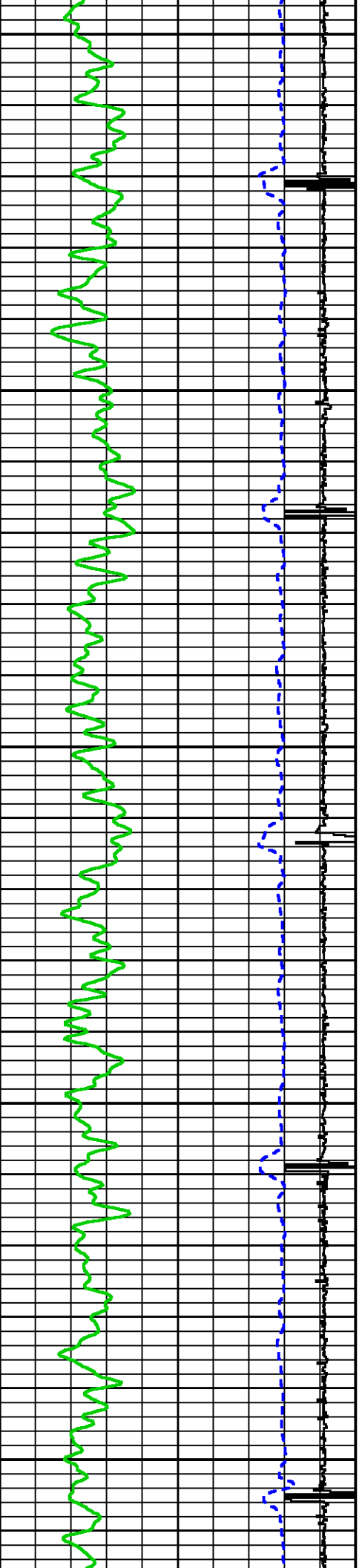




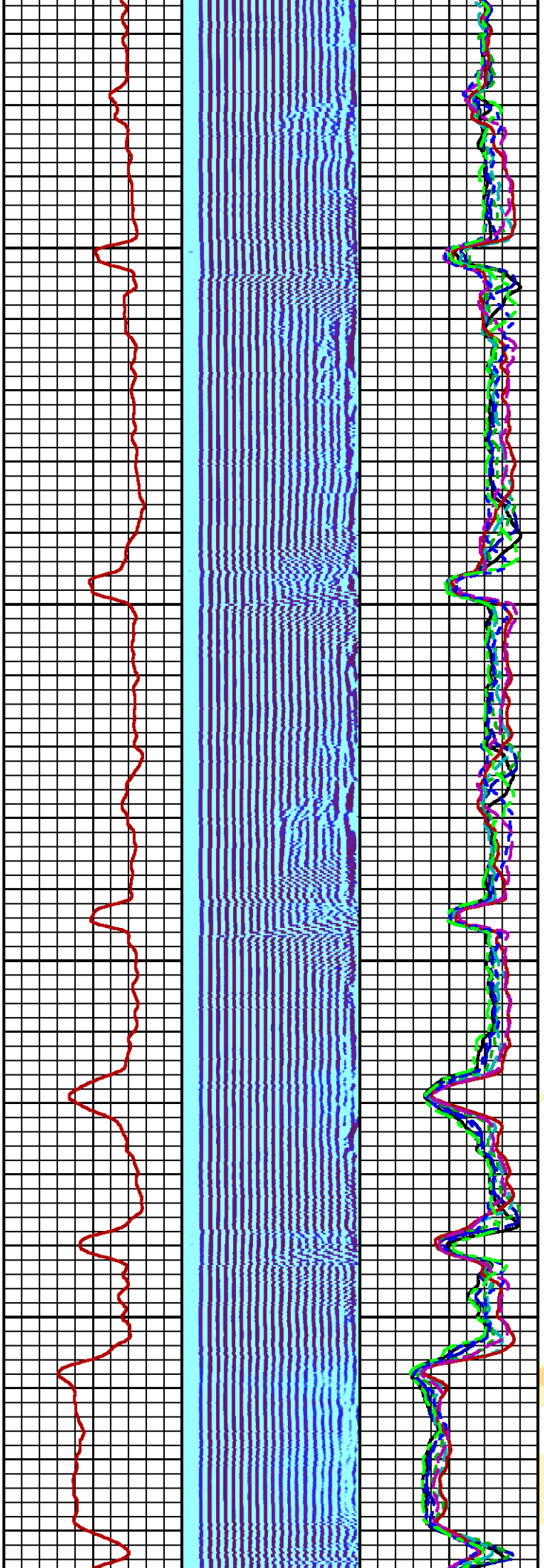
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1000

1100

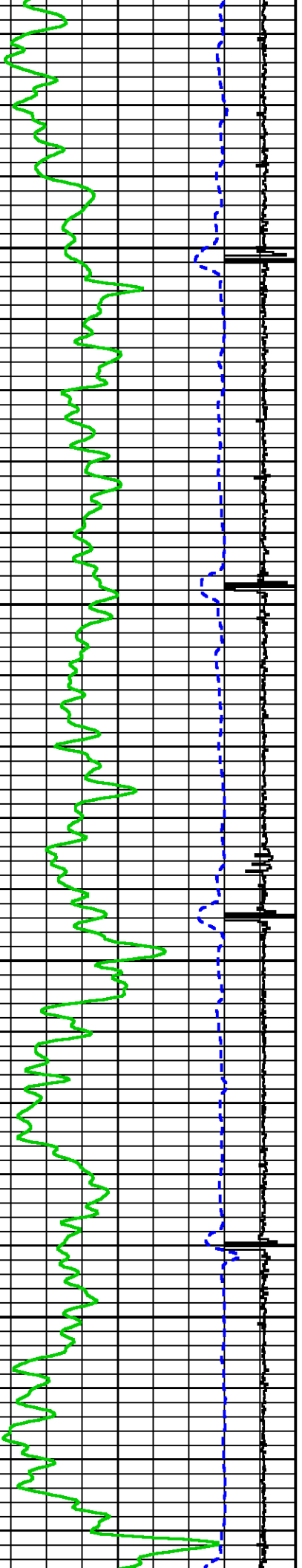


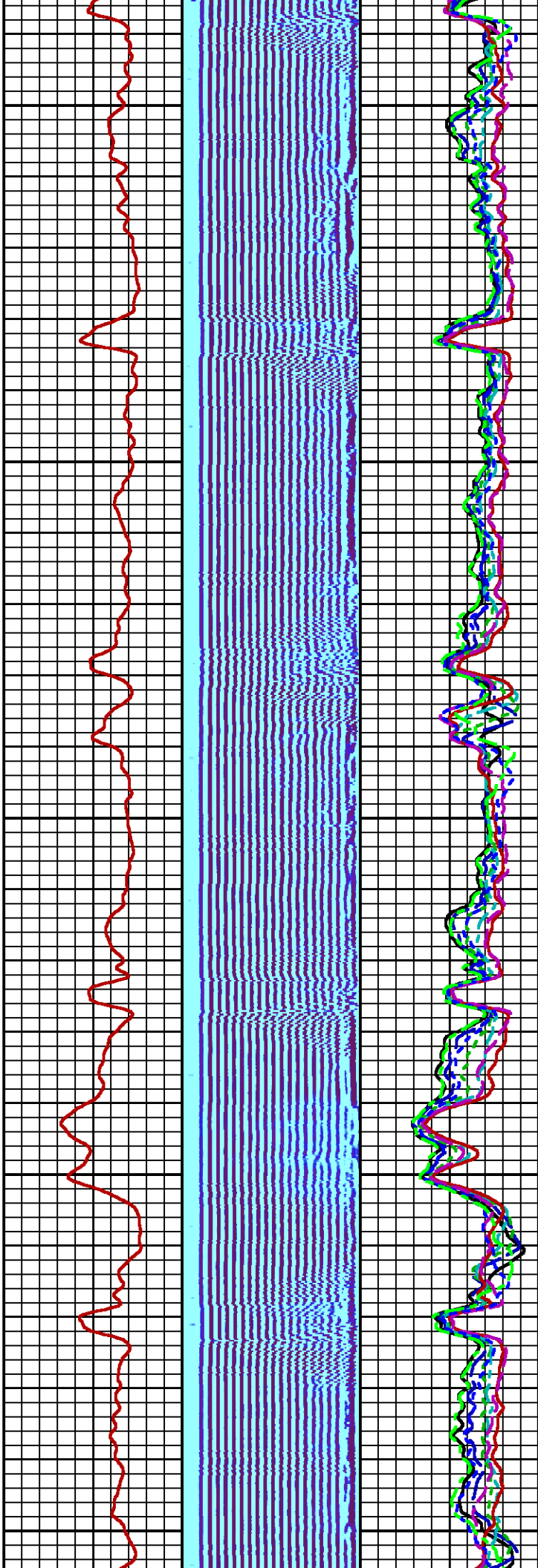




1200

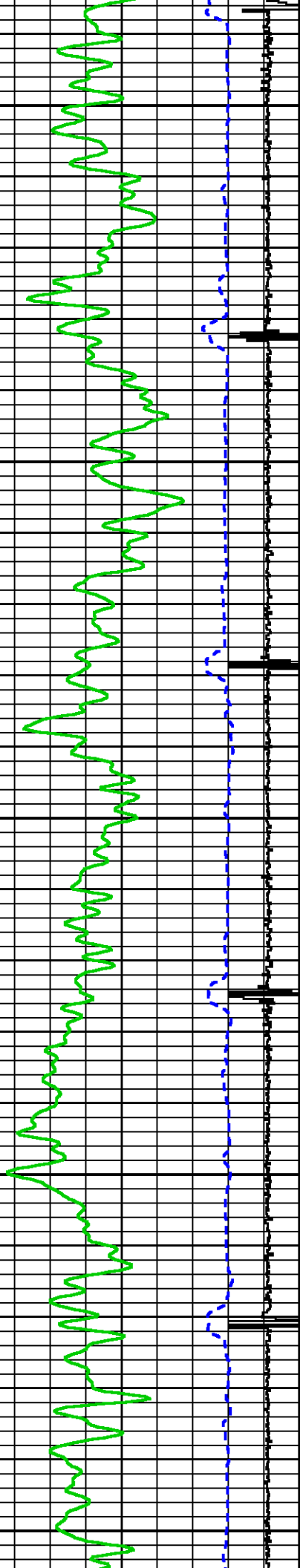
1300

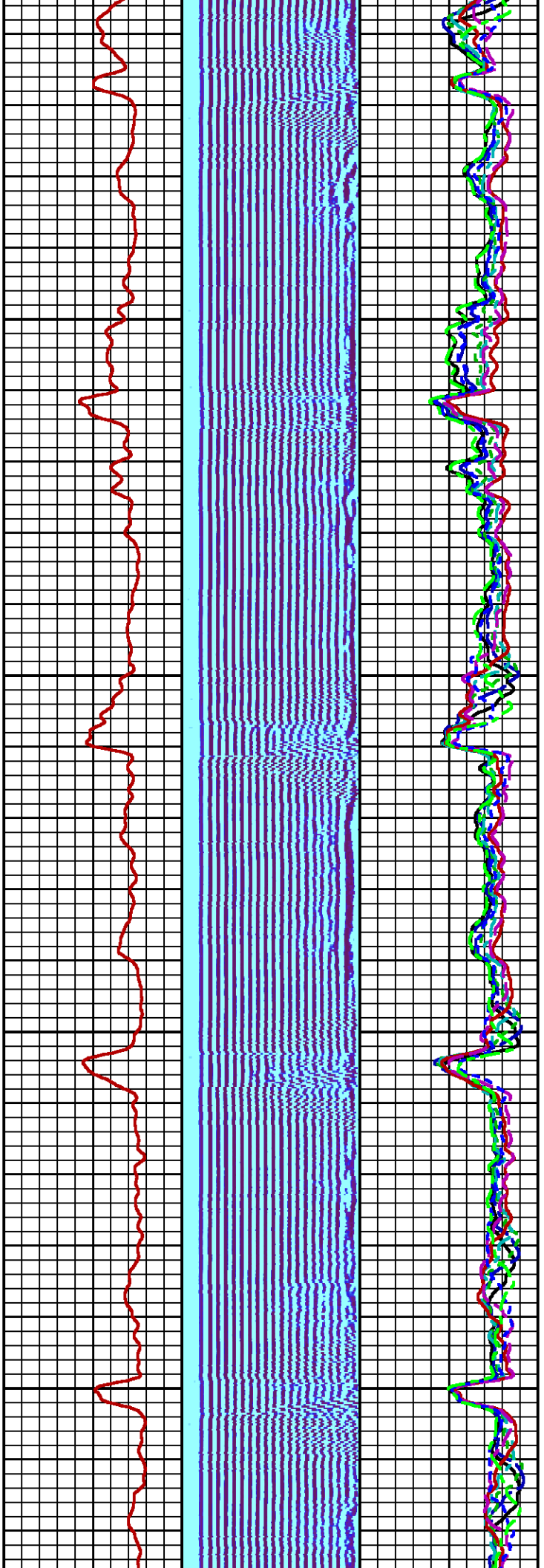




1400

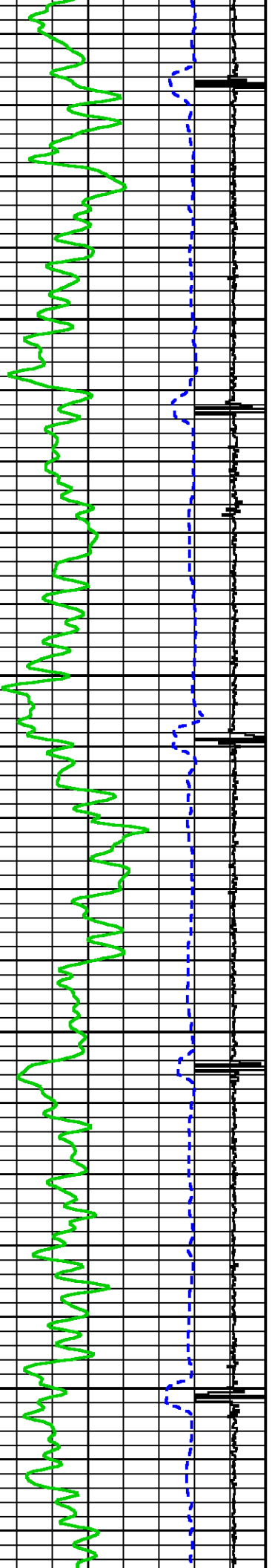
1500

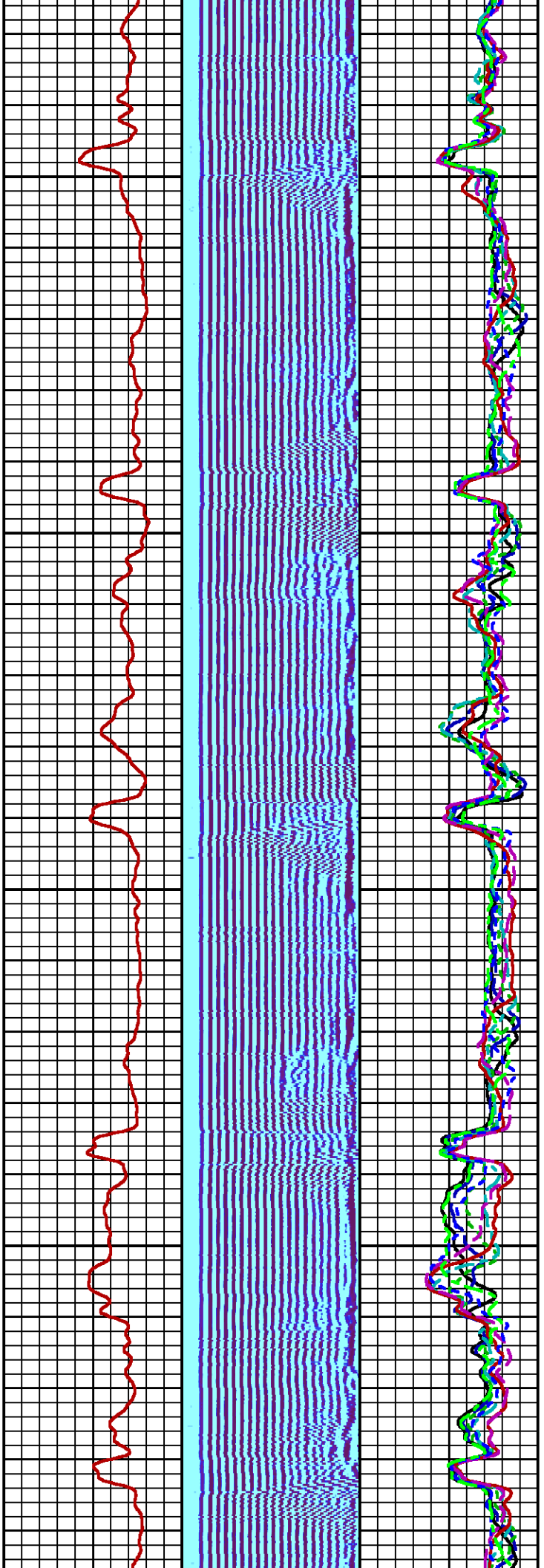




1600

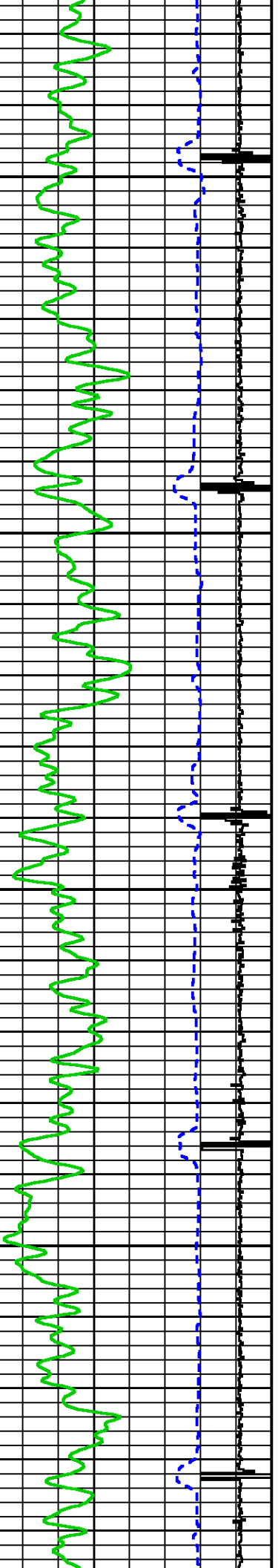
1700



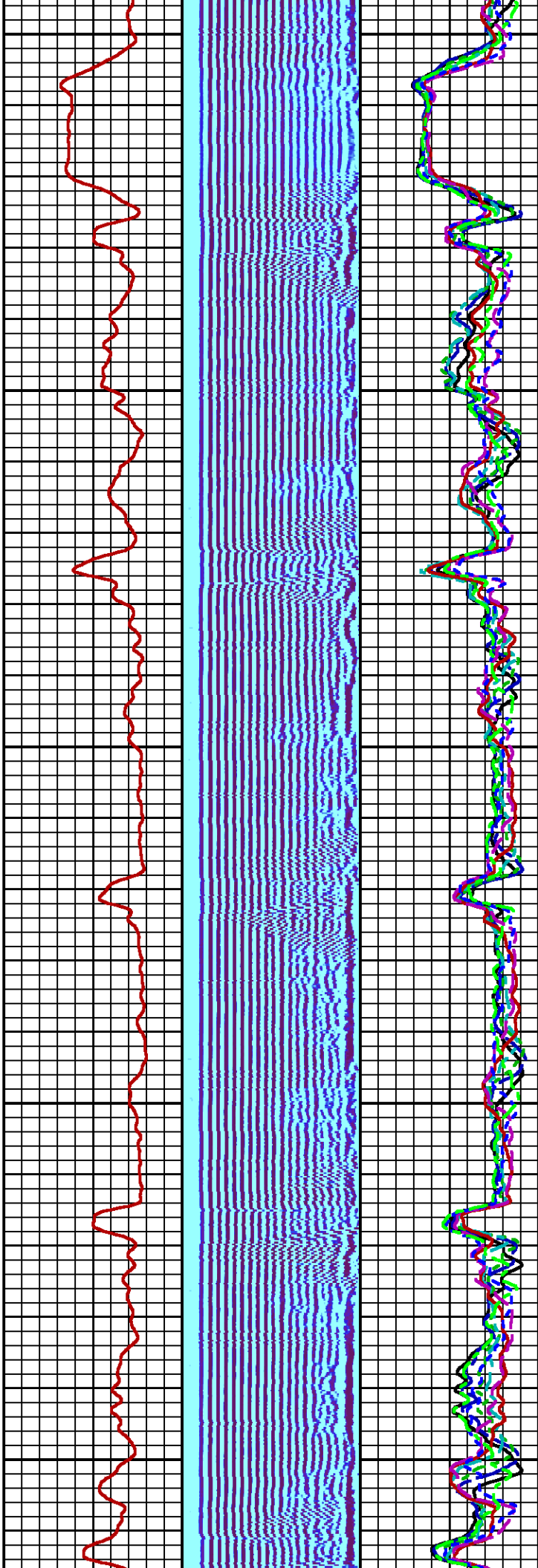


1800

1900



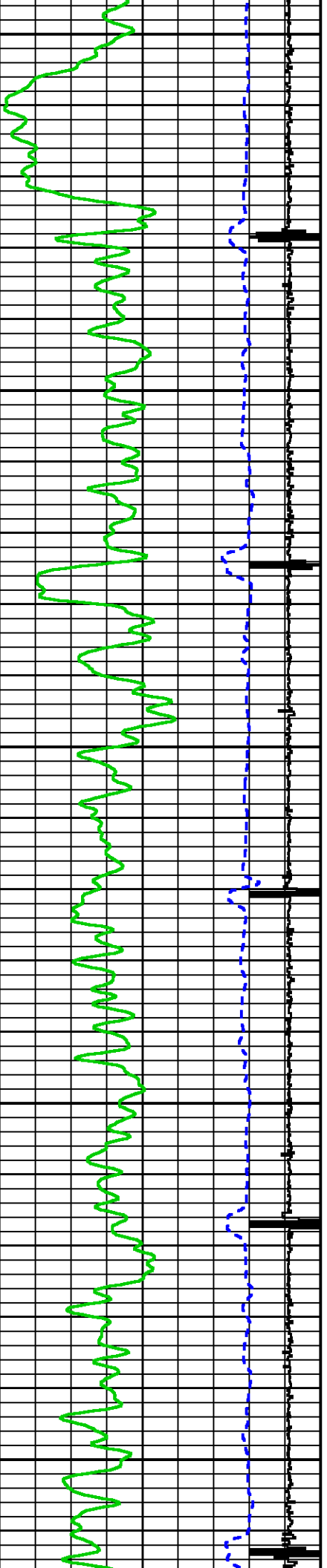


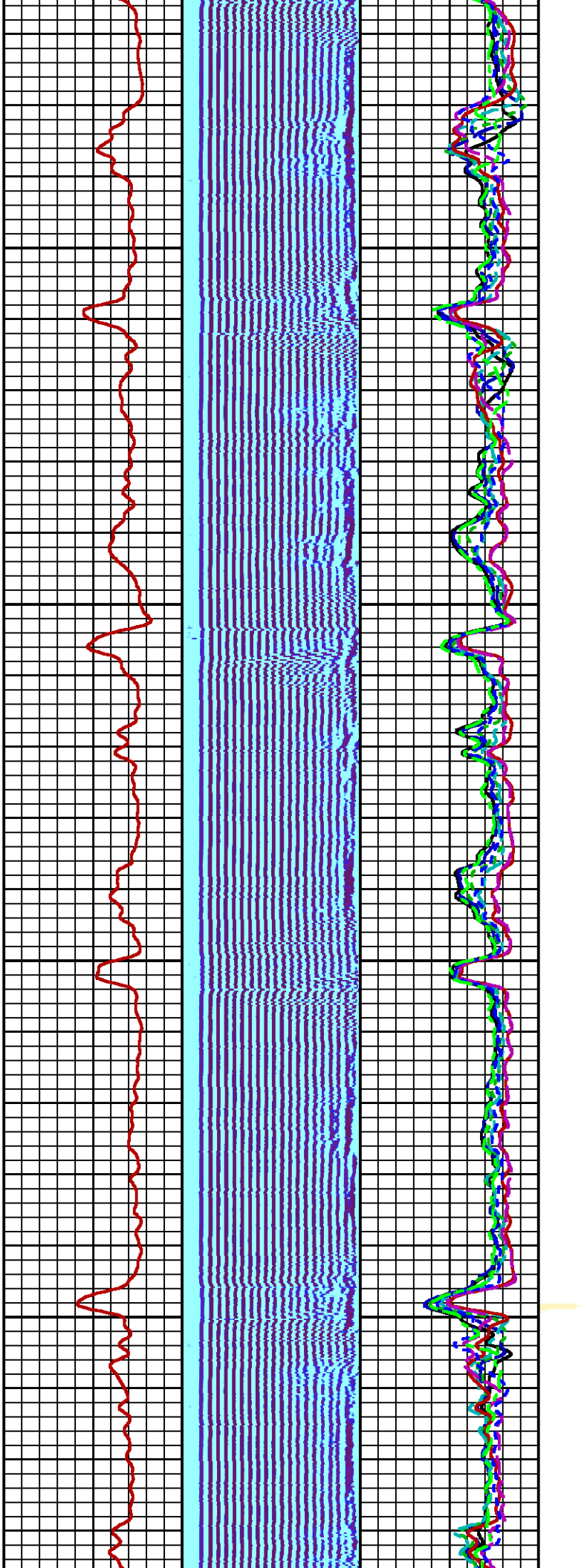


2000

2100

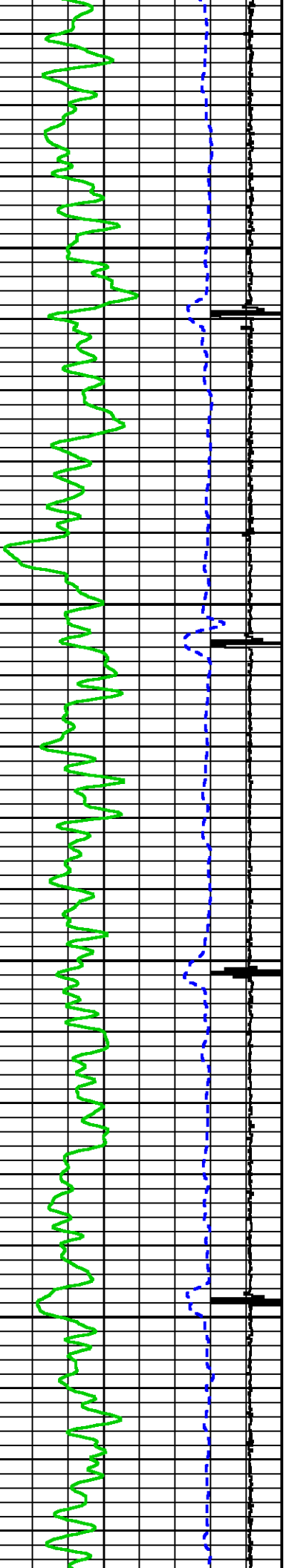
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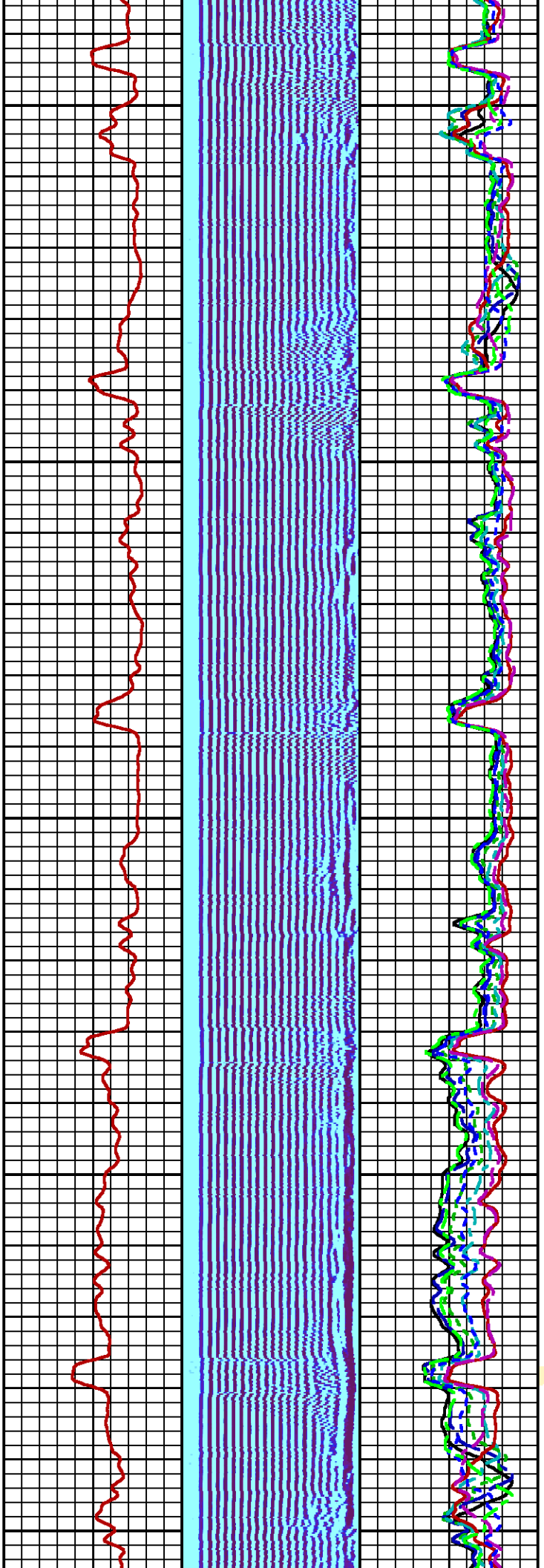




2300

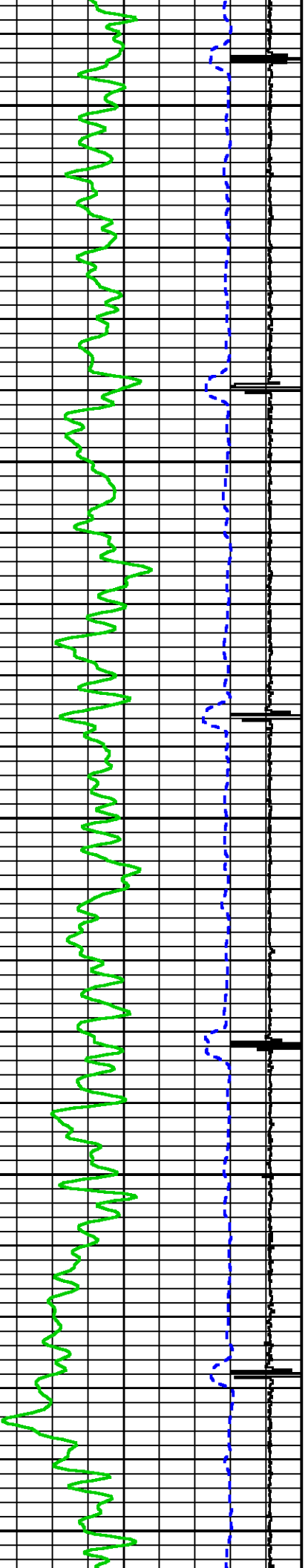
2400

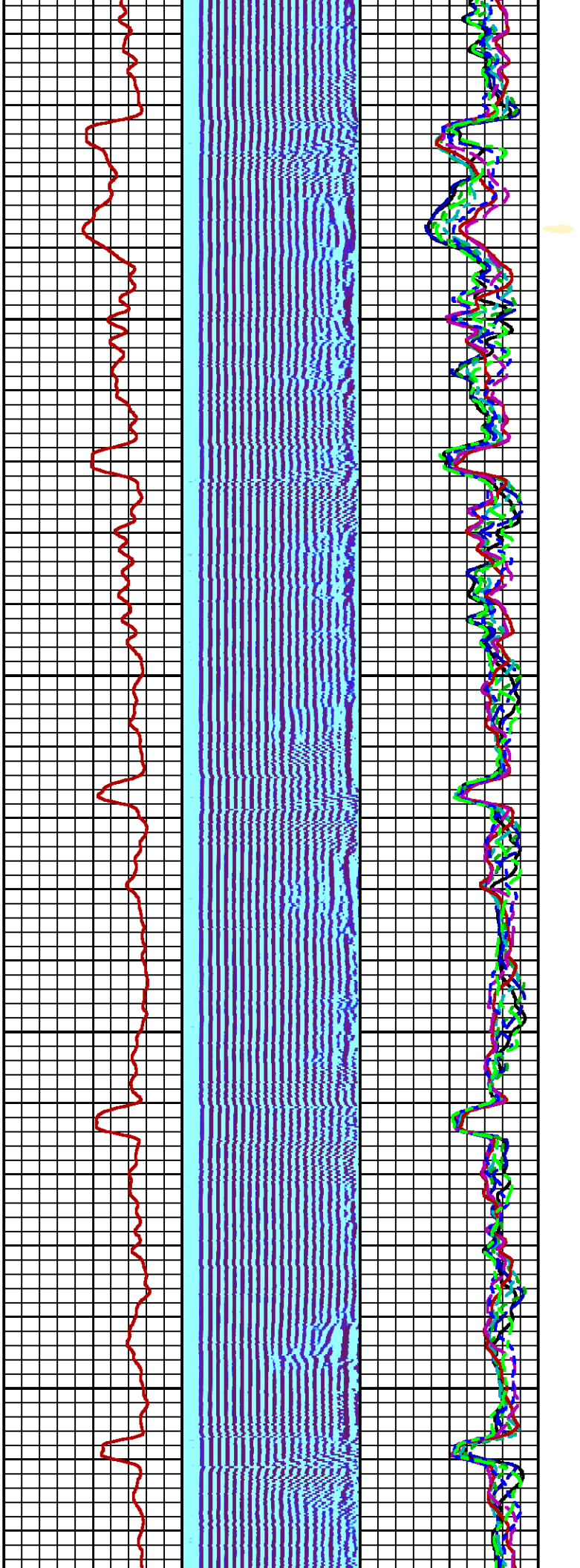




2500

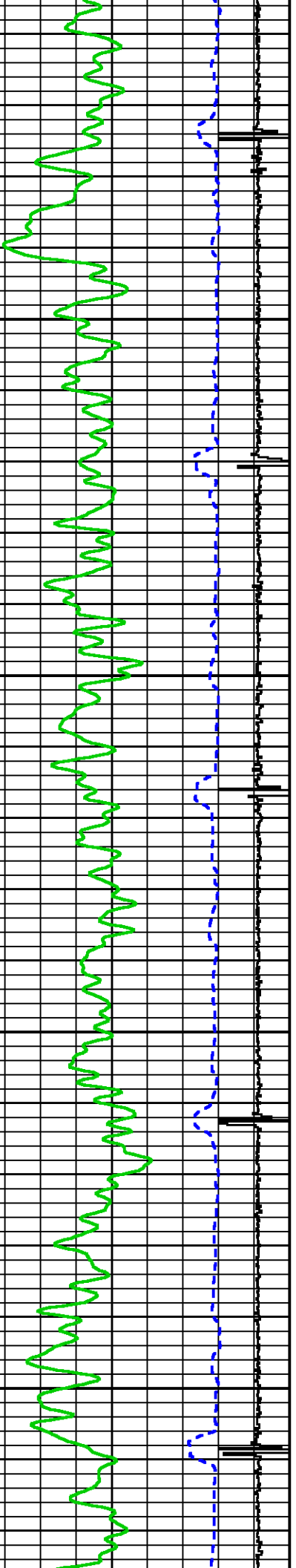
2600



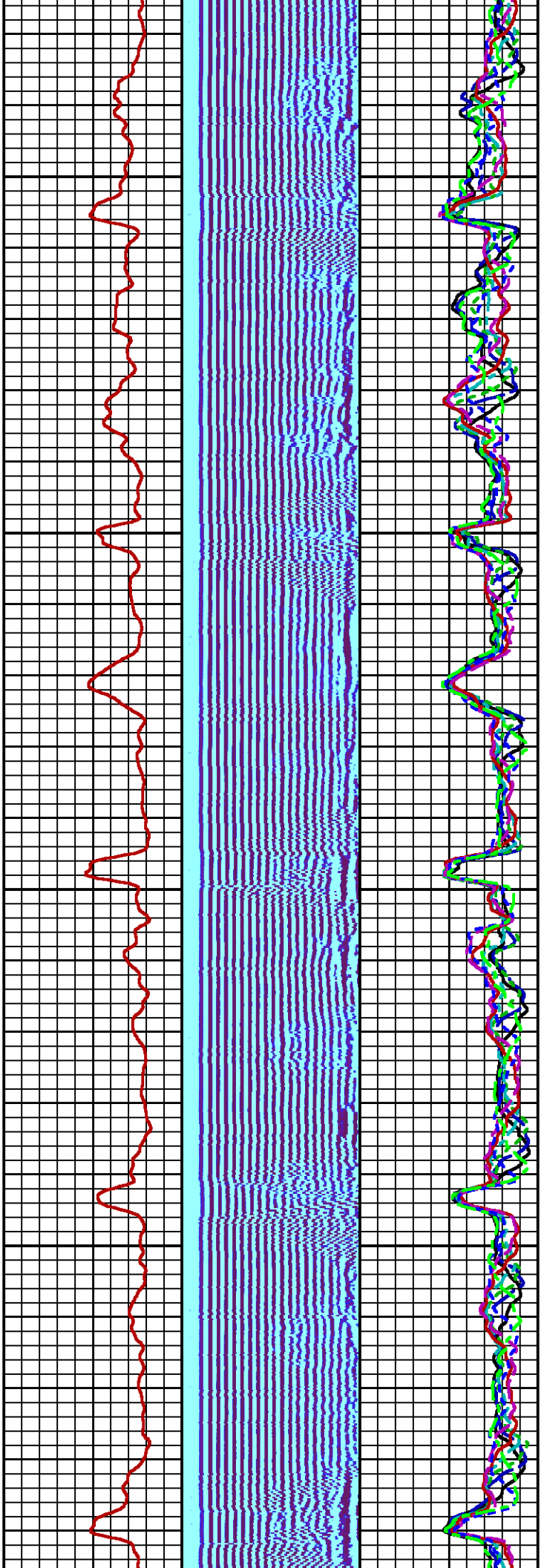


2700

2800

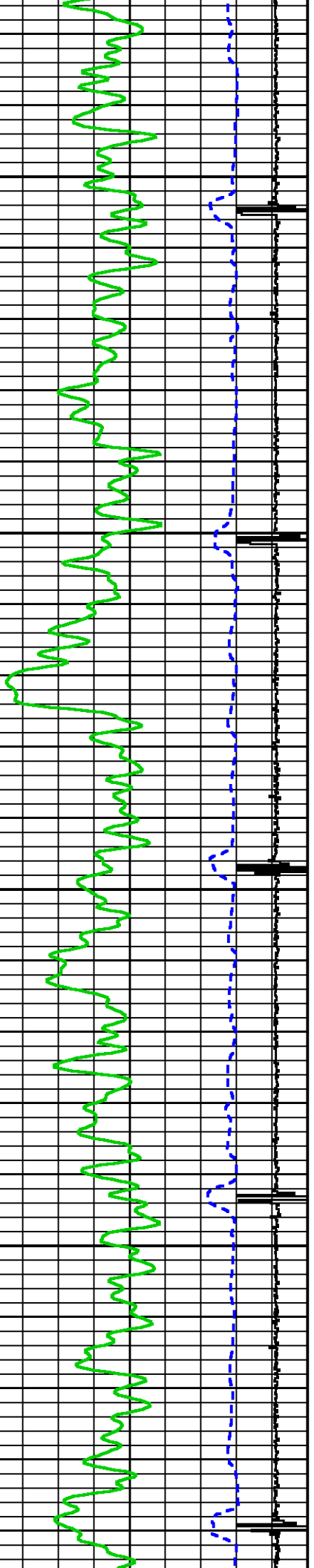


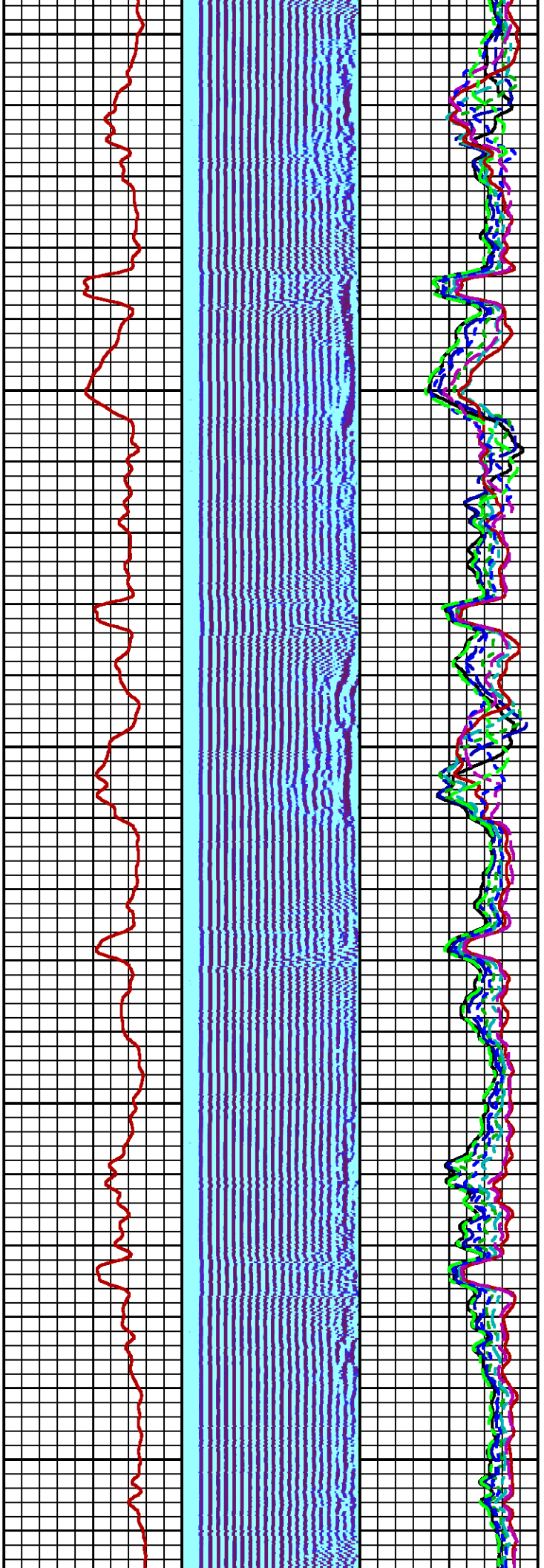




2900

3000

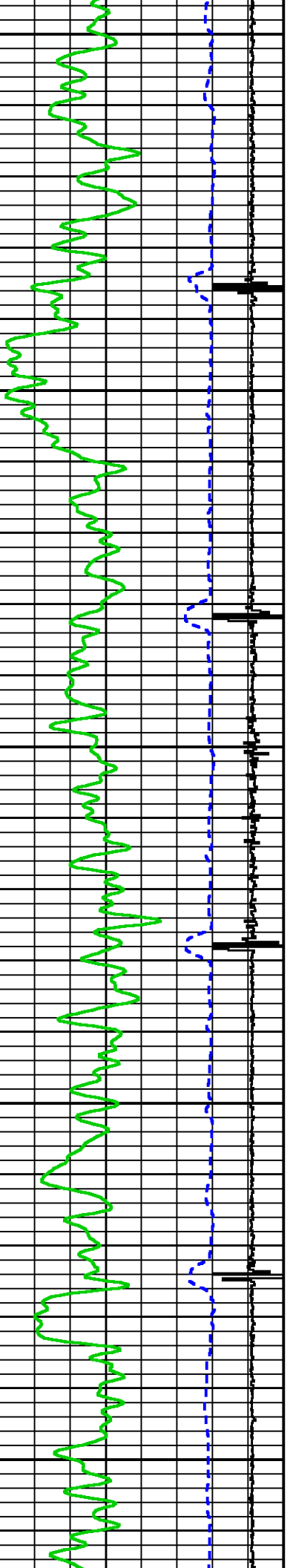


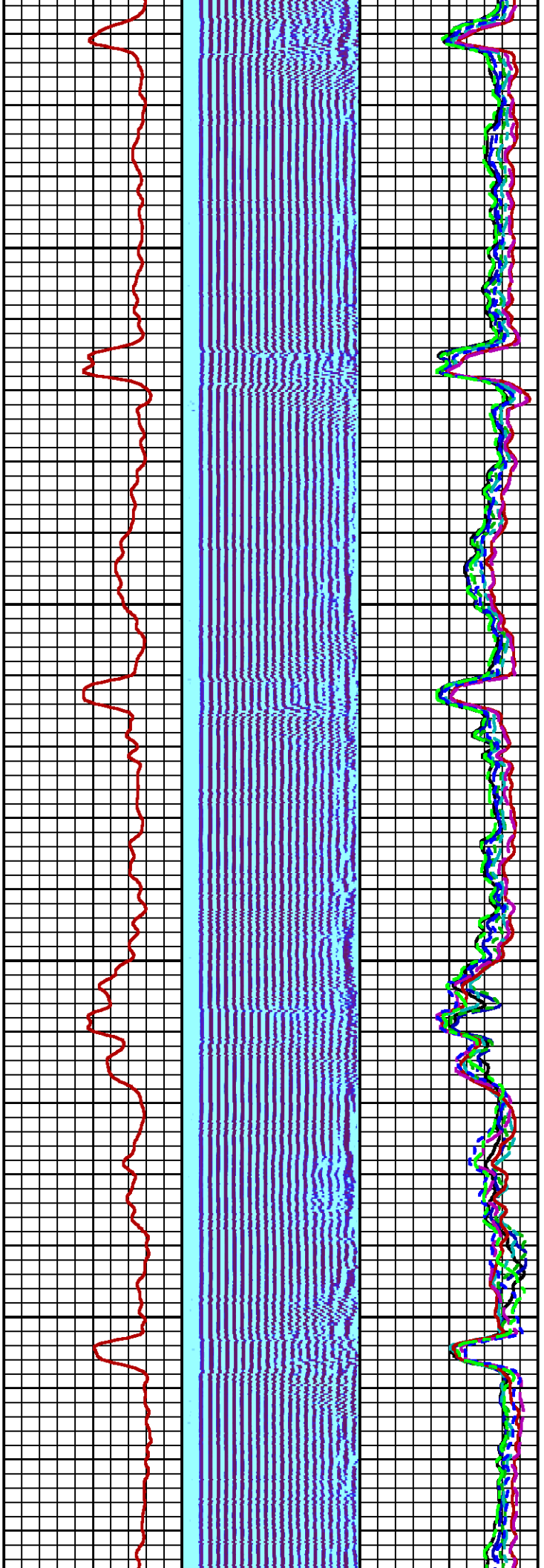


3100

3200

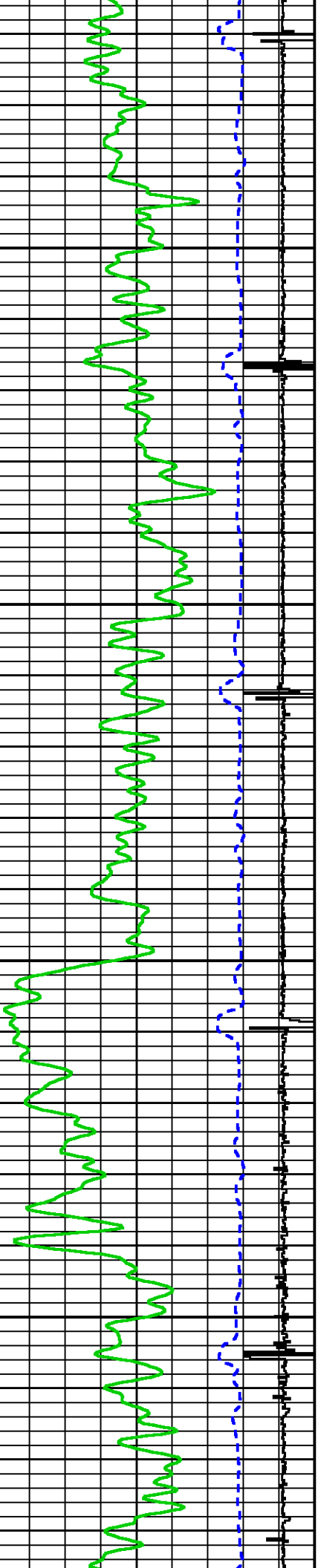
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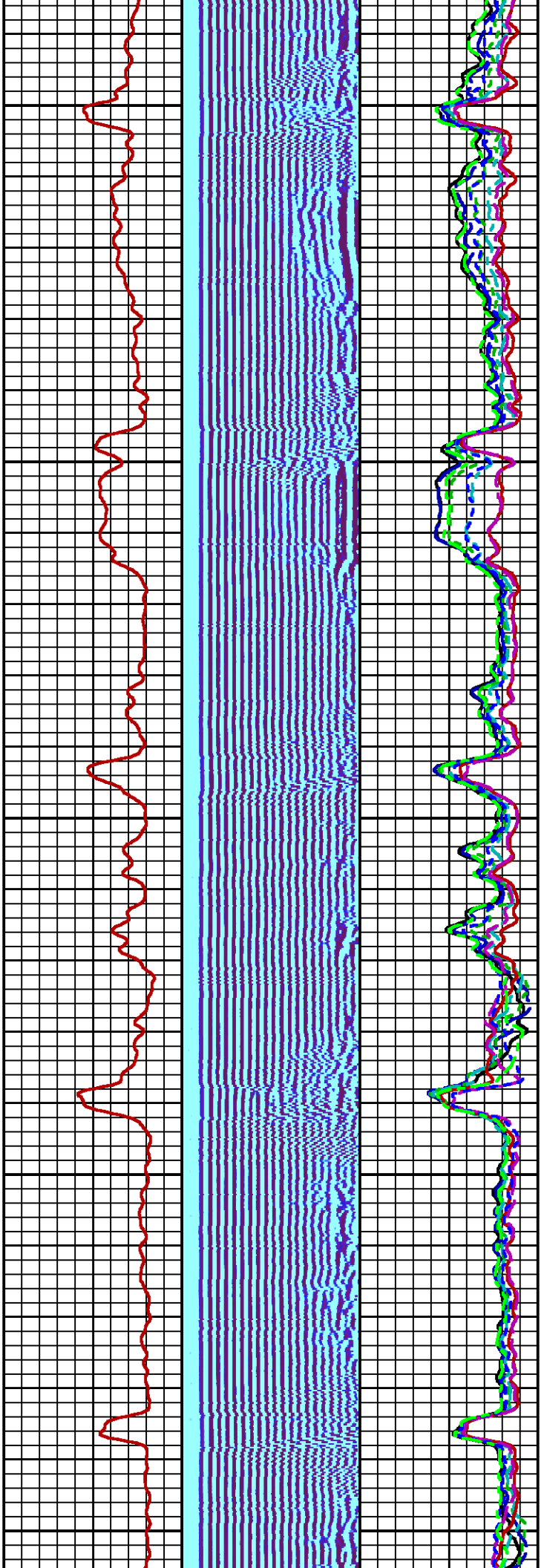




3400

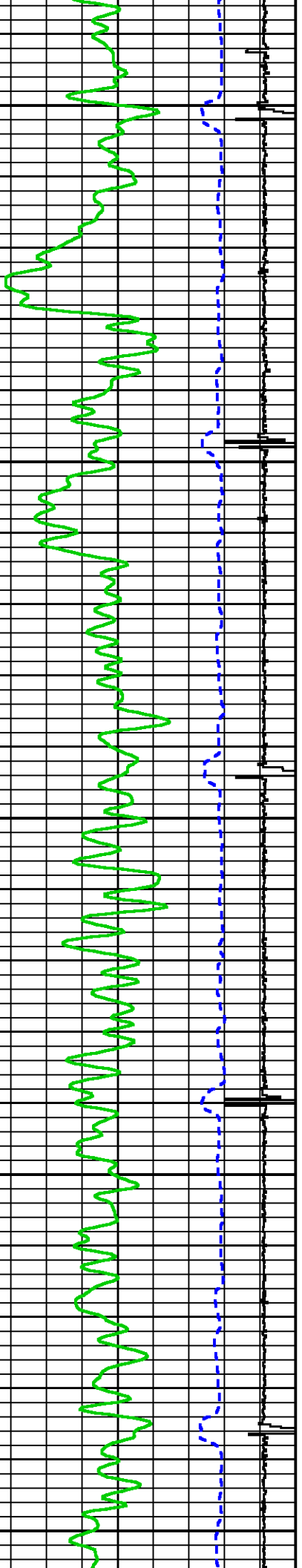
3500



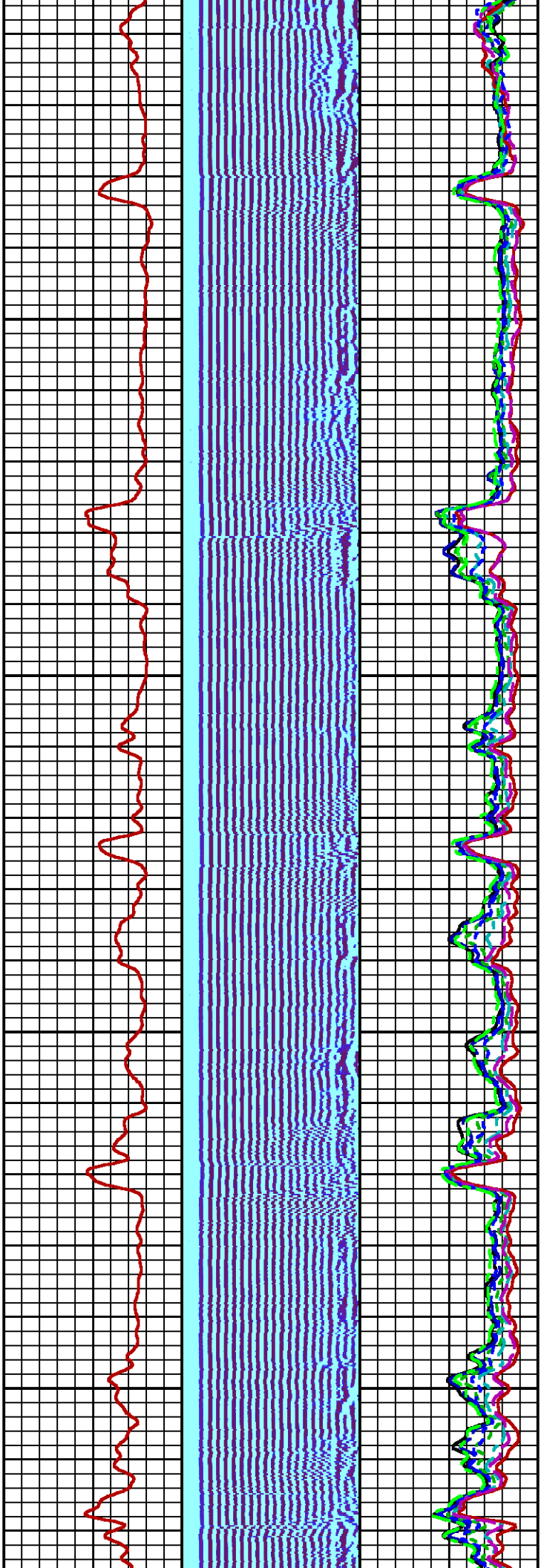


3600

3700

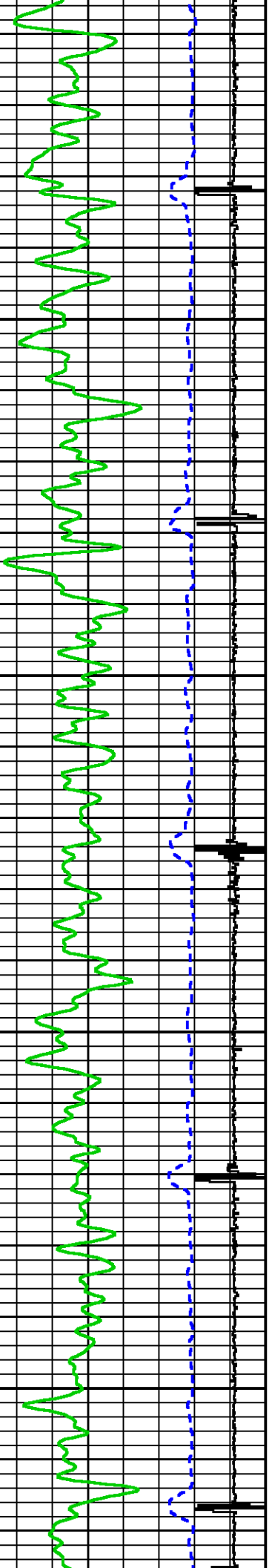


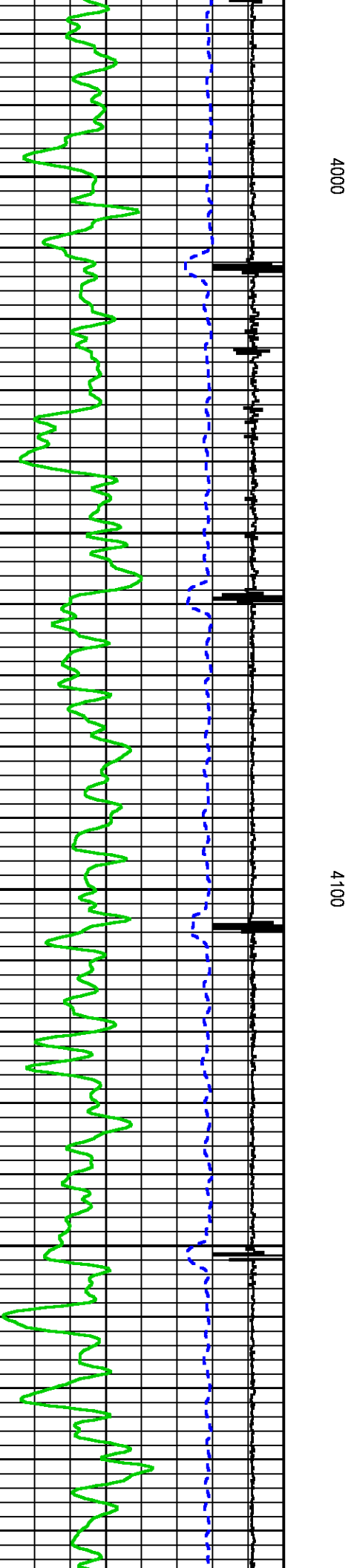
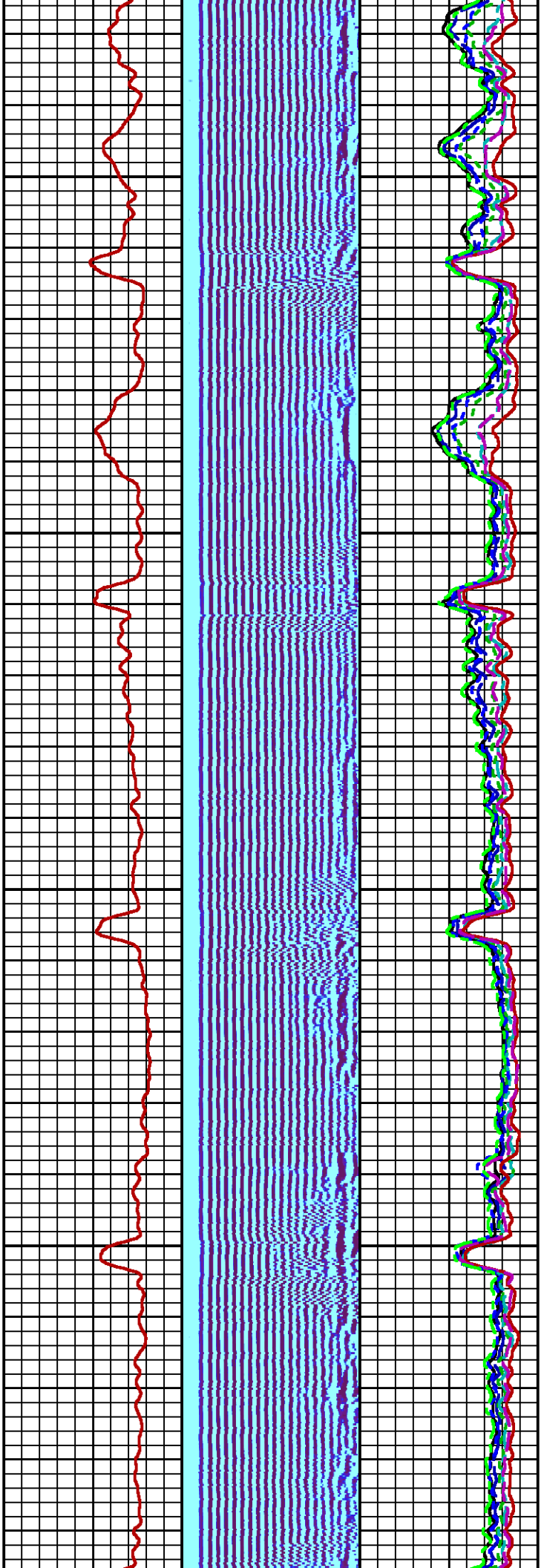


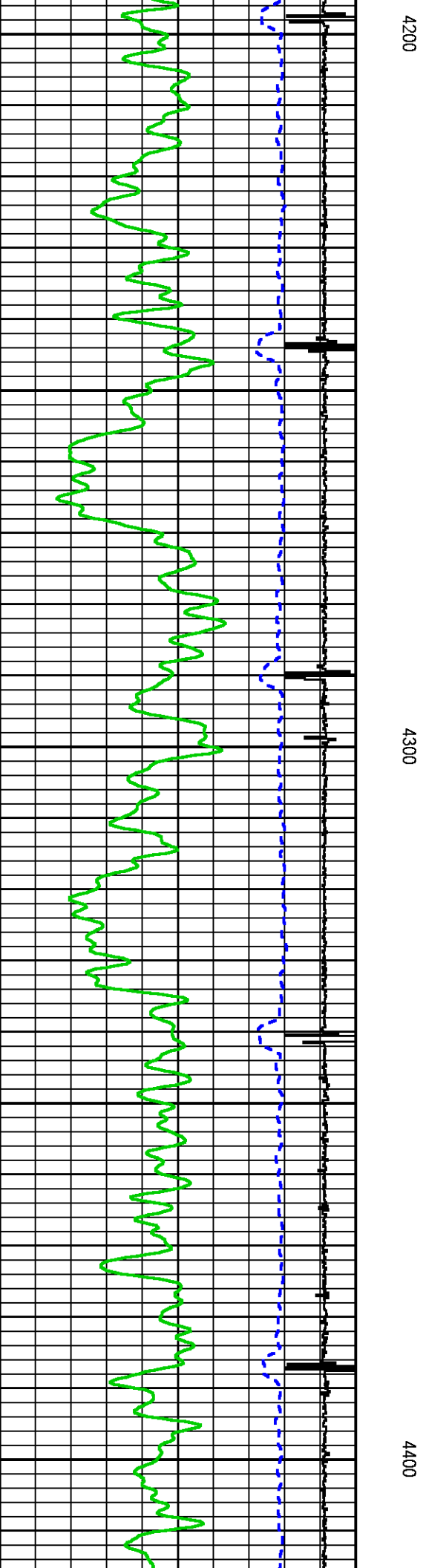
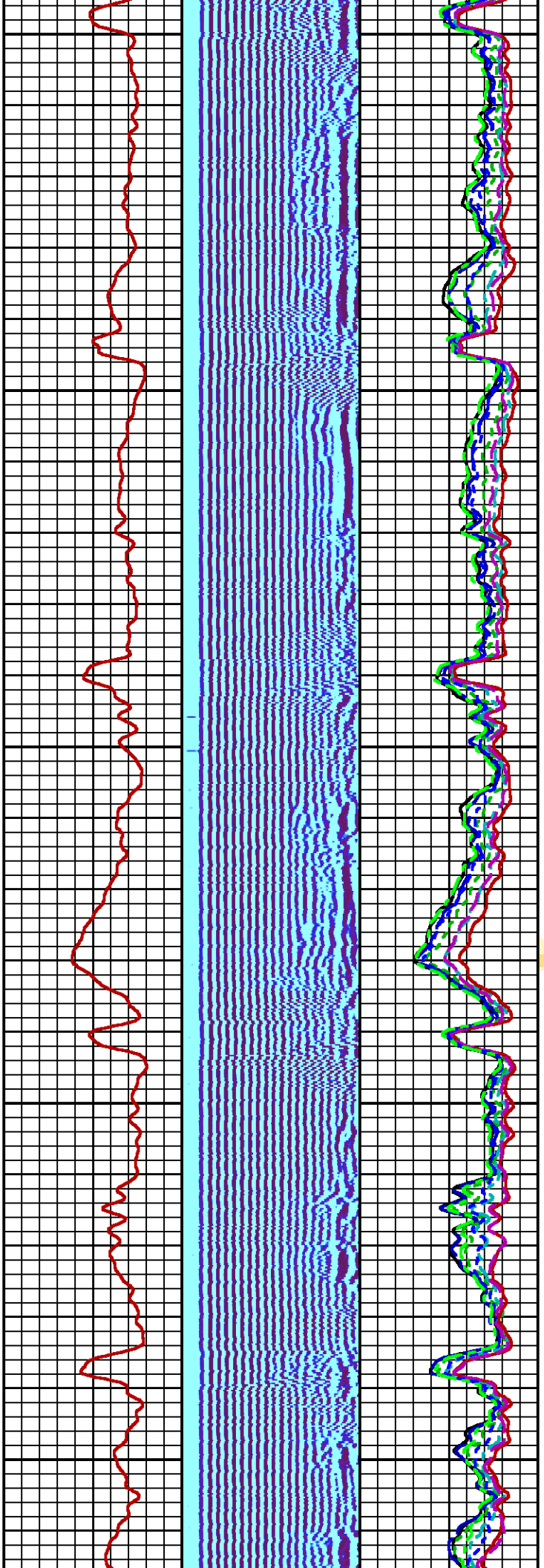


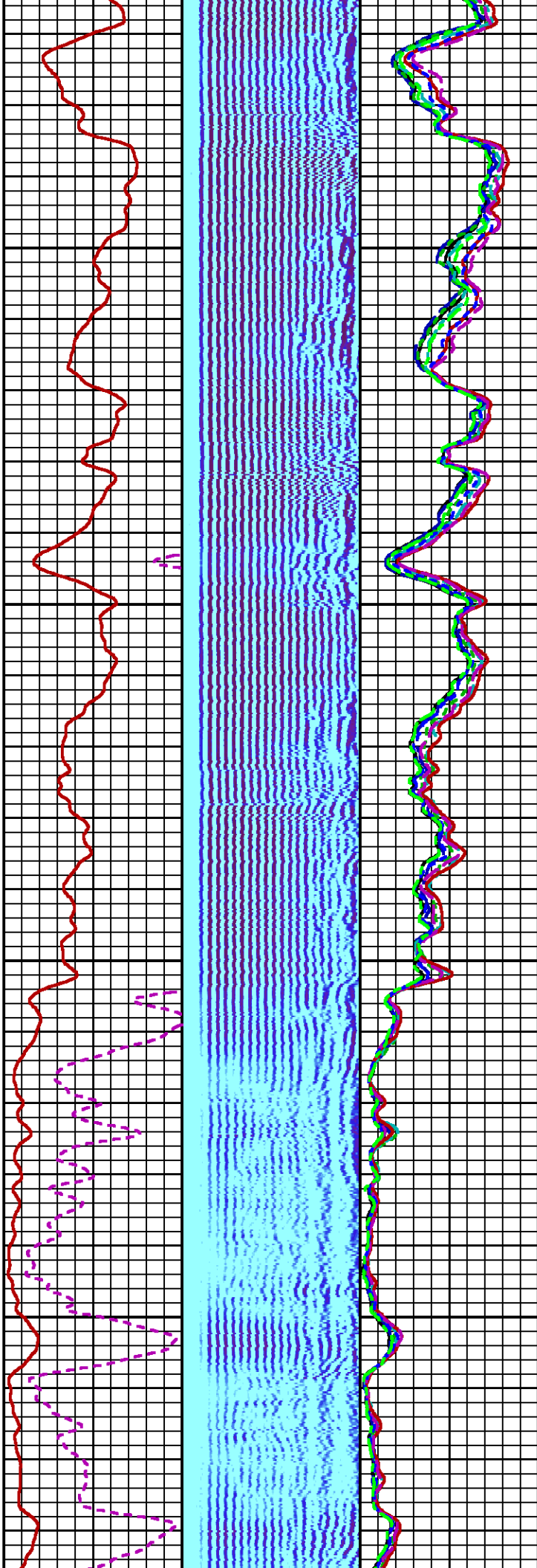
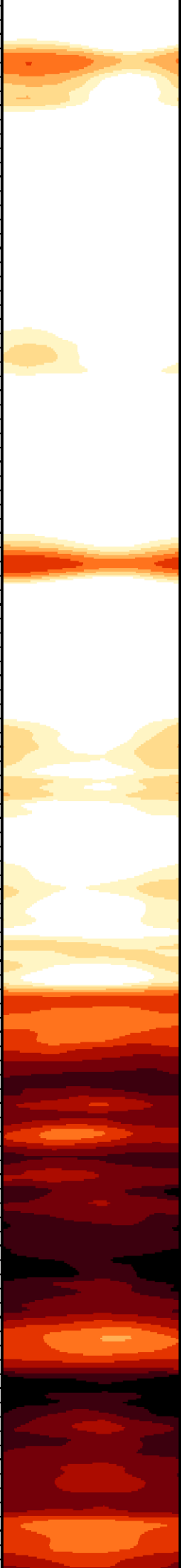
3800

3900



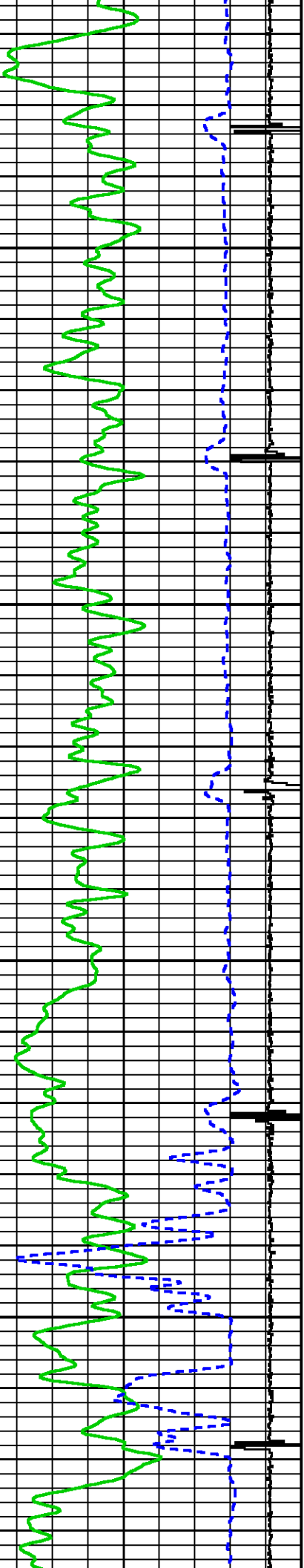




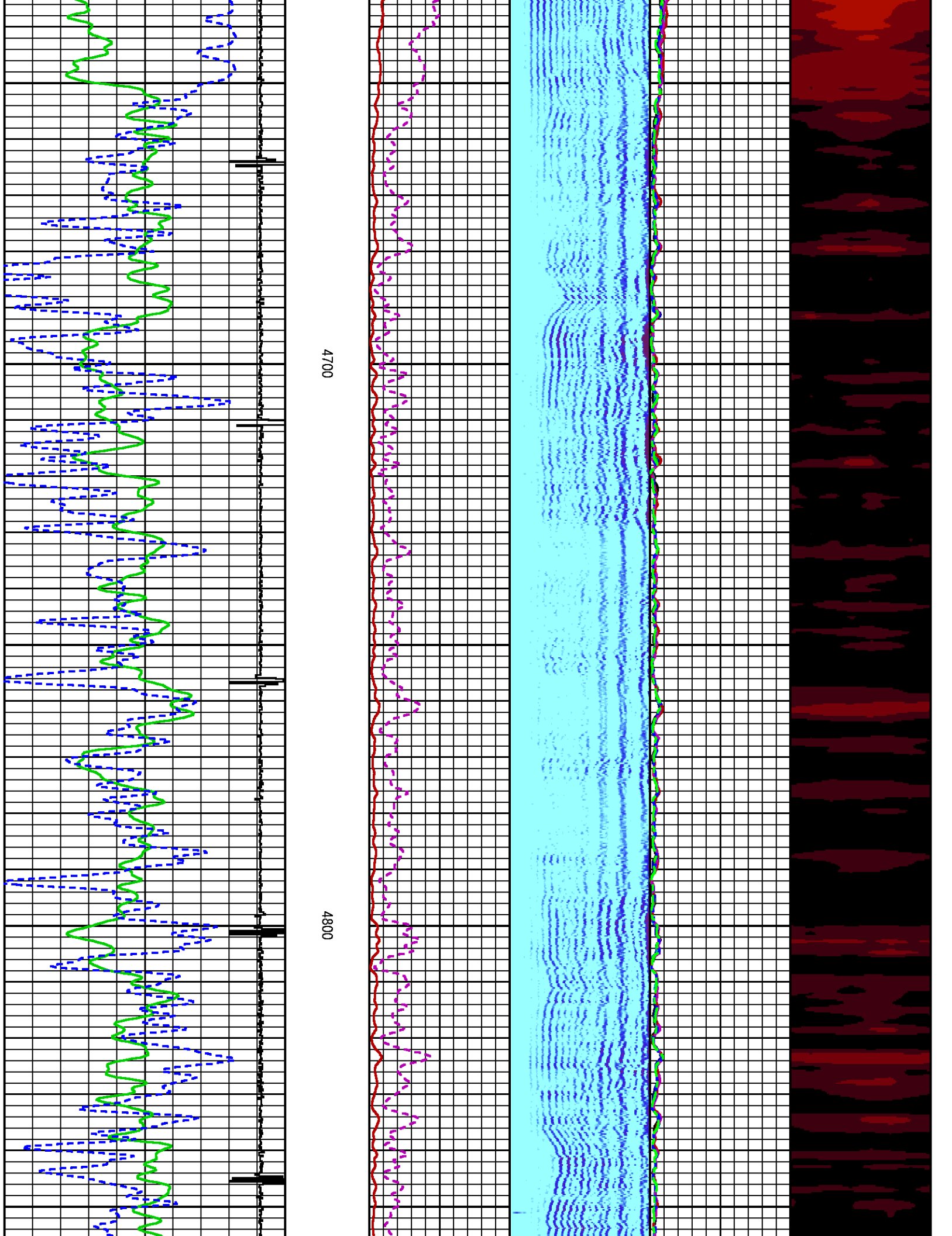


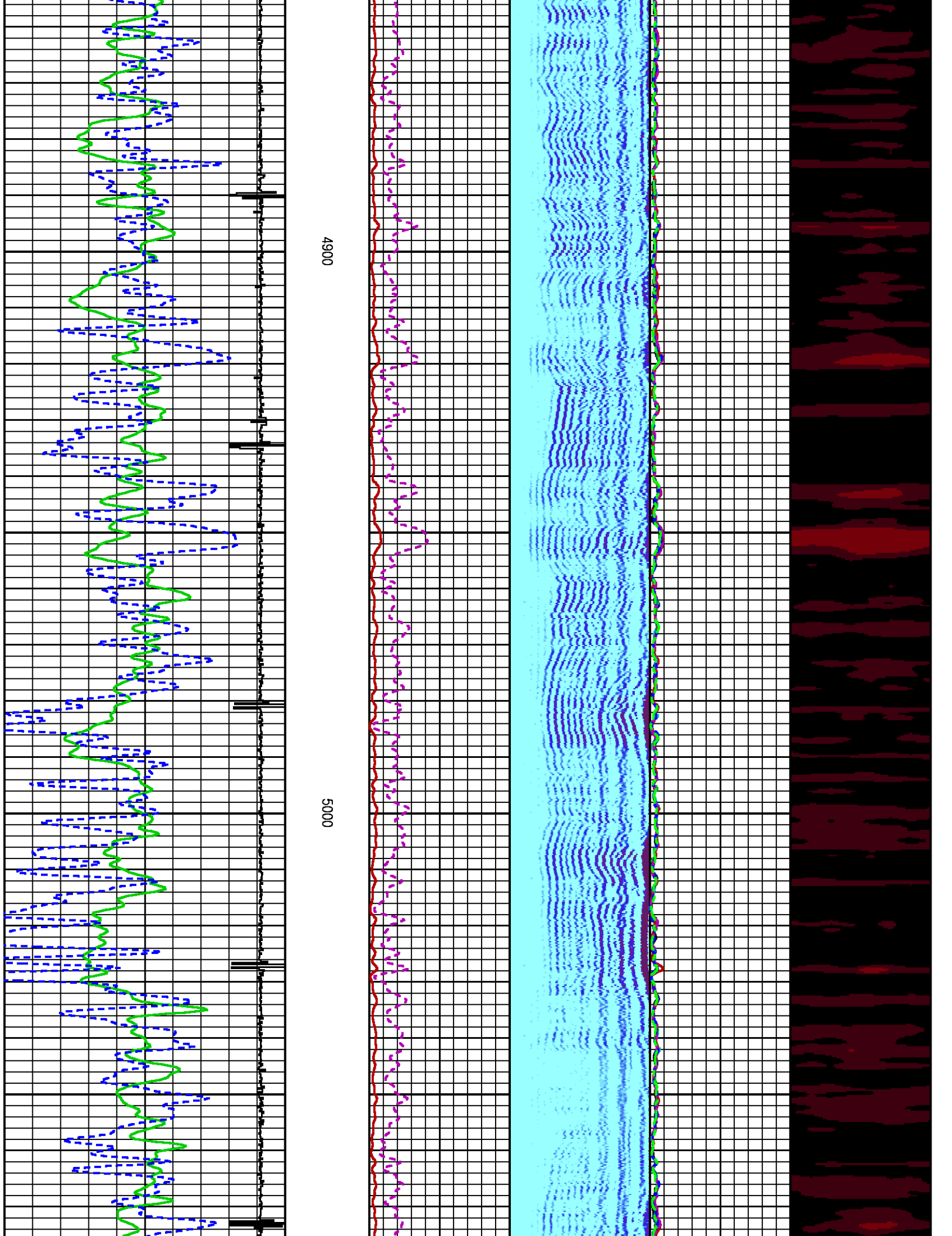
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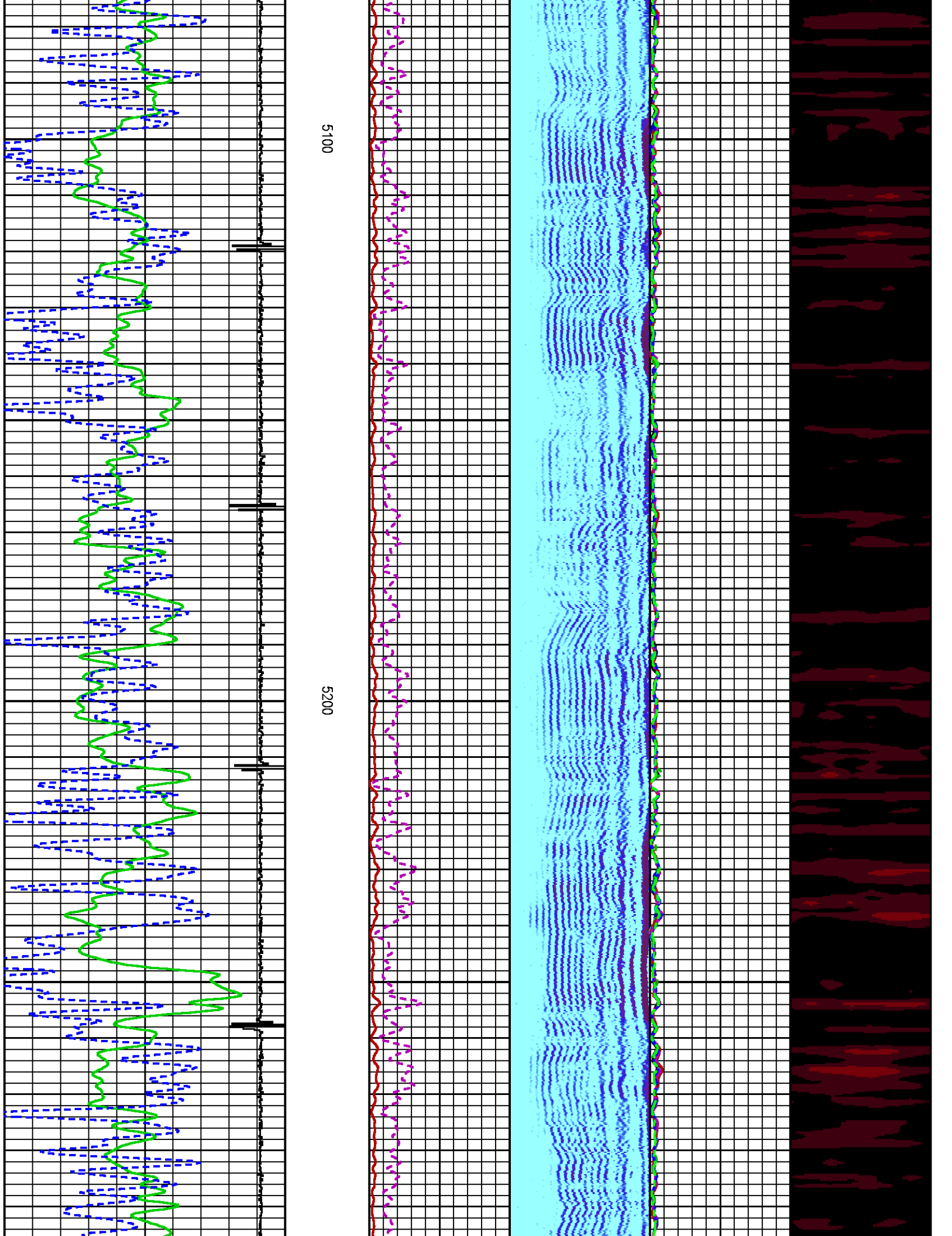
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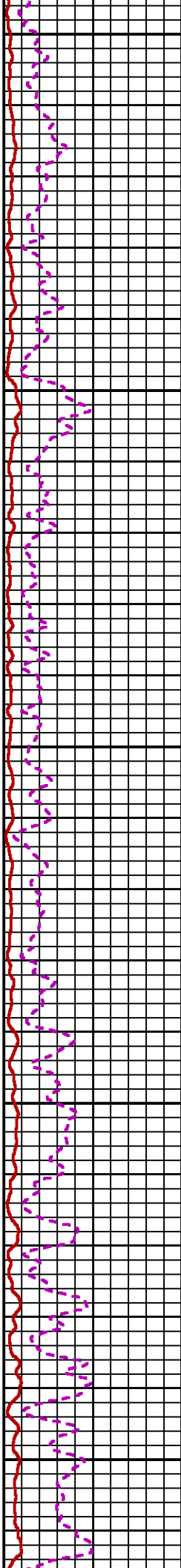
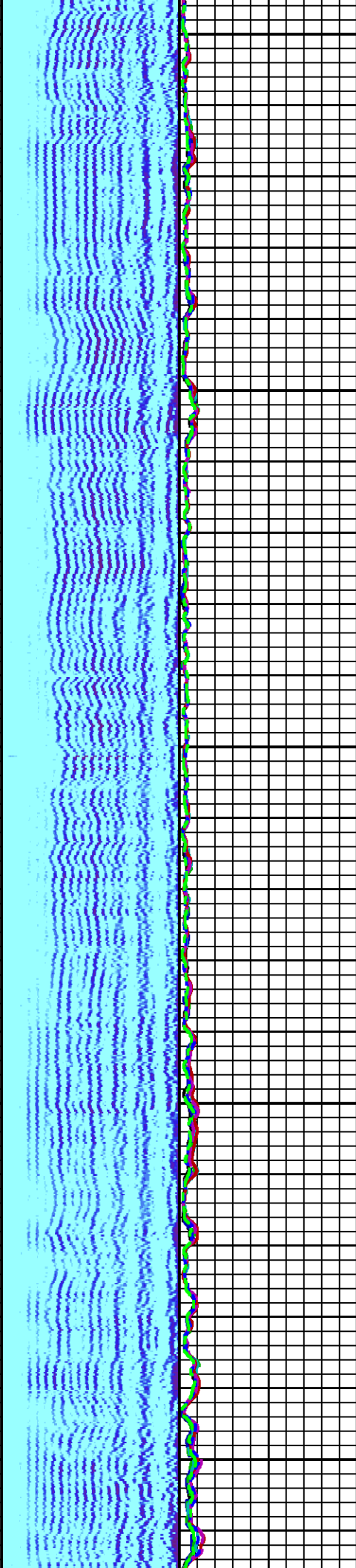








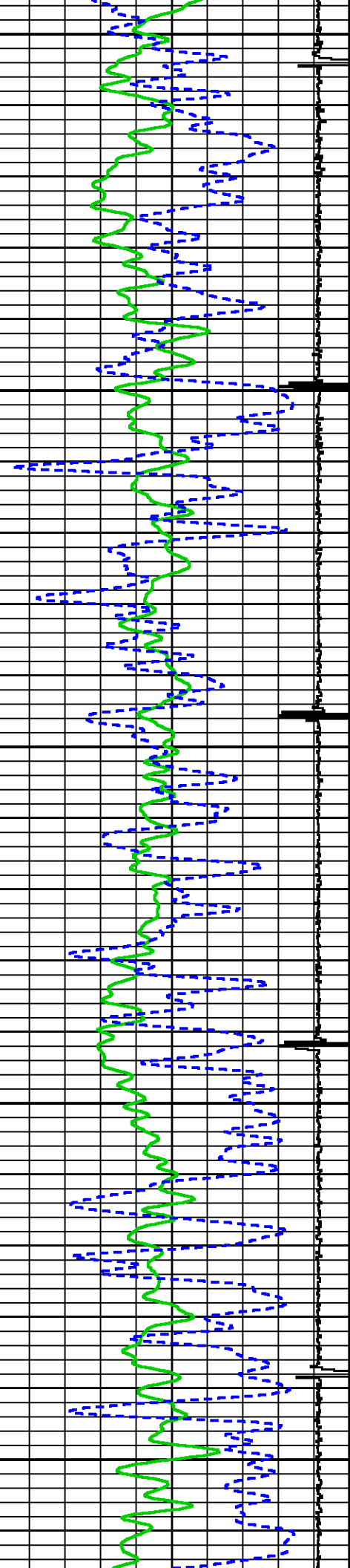




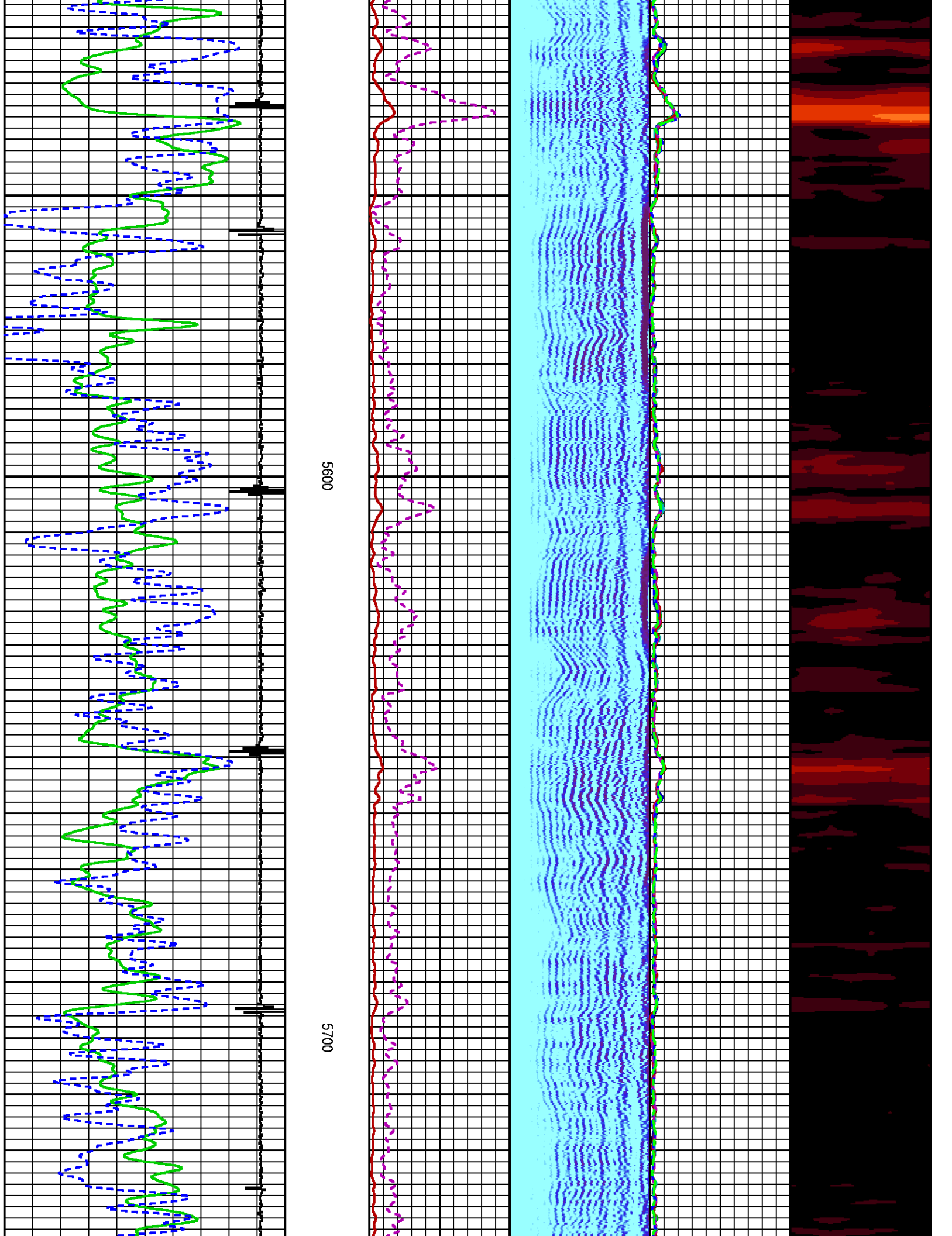
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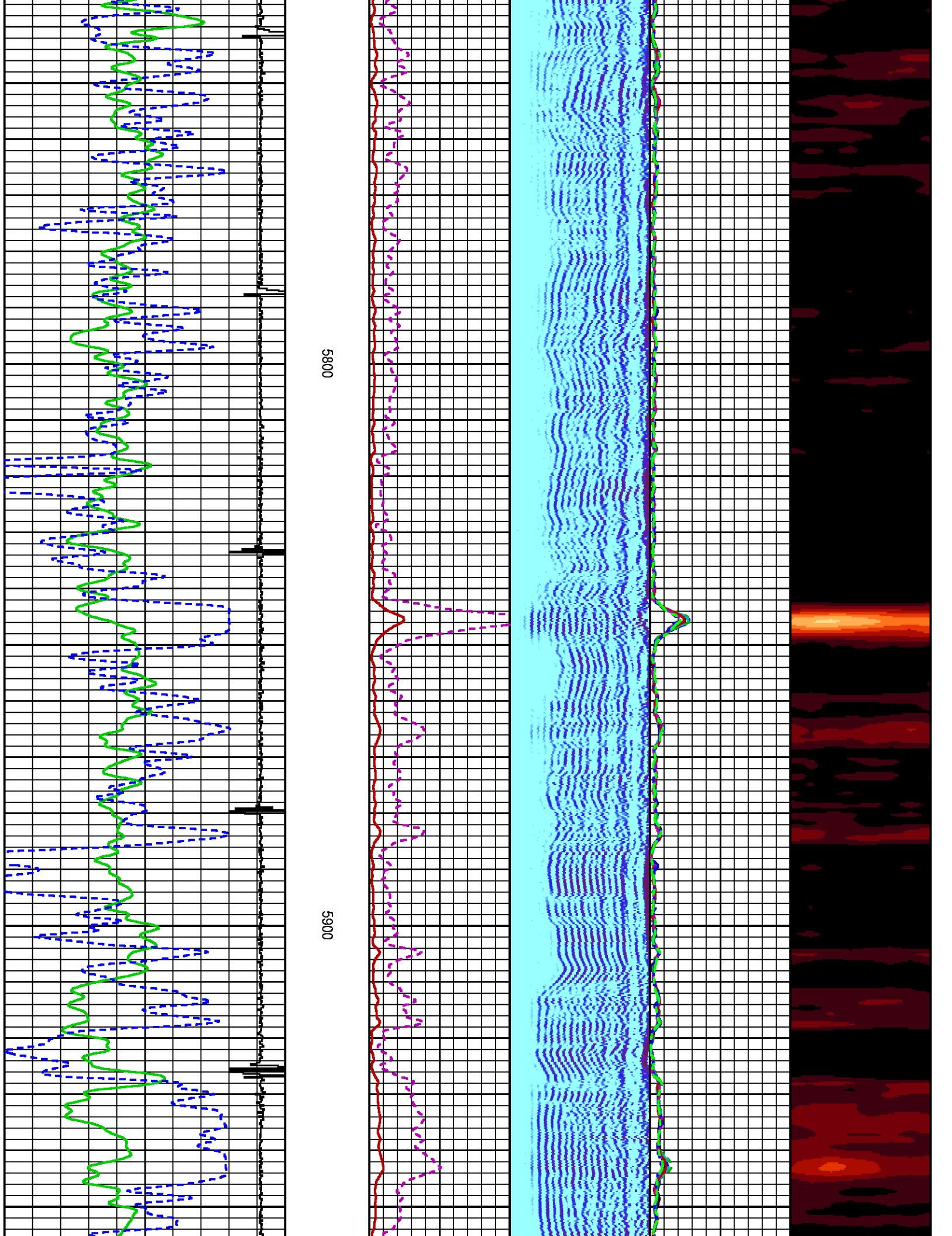
5400

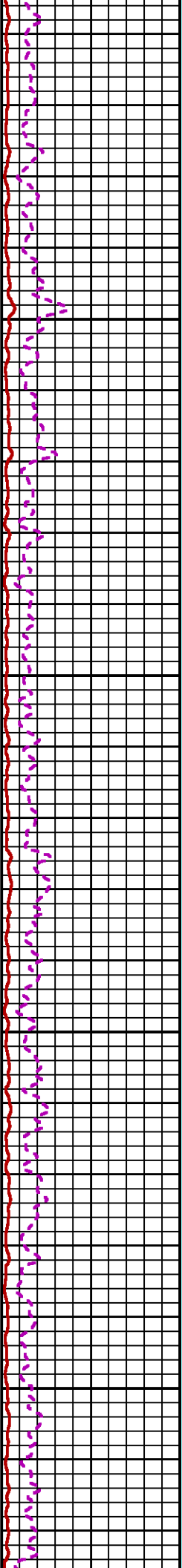
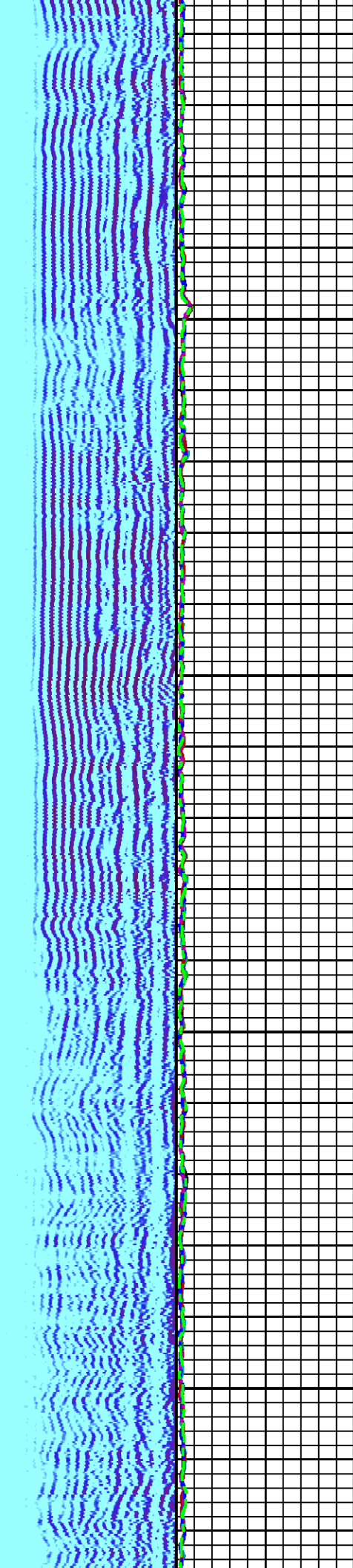
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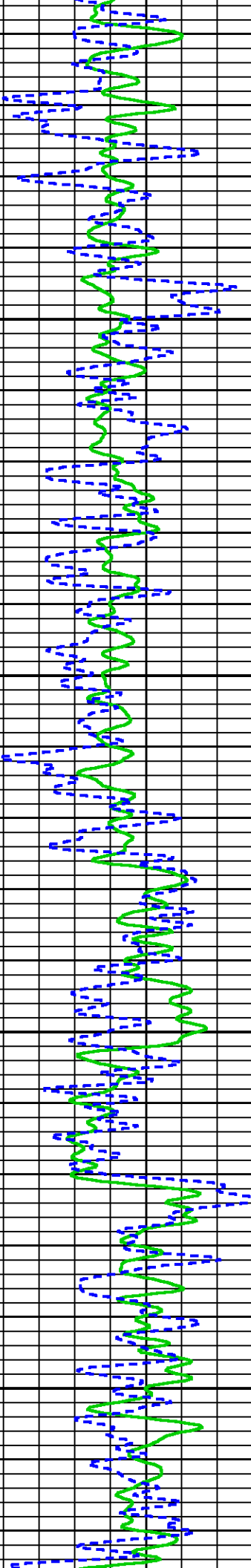
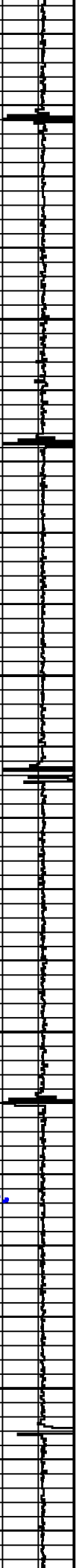


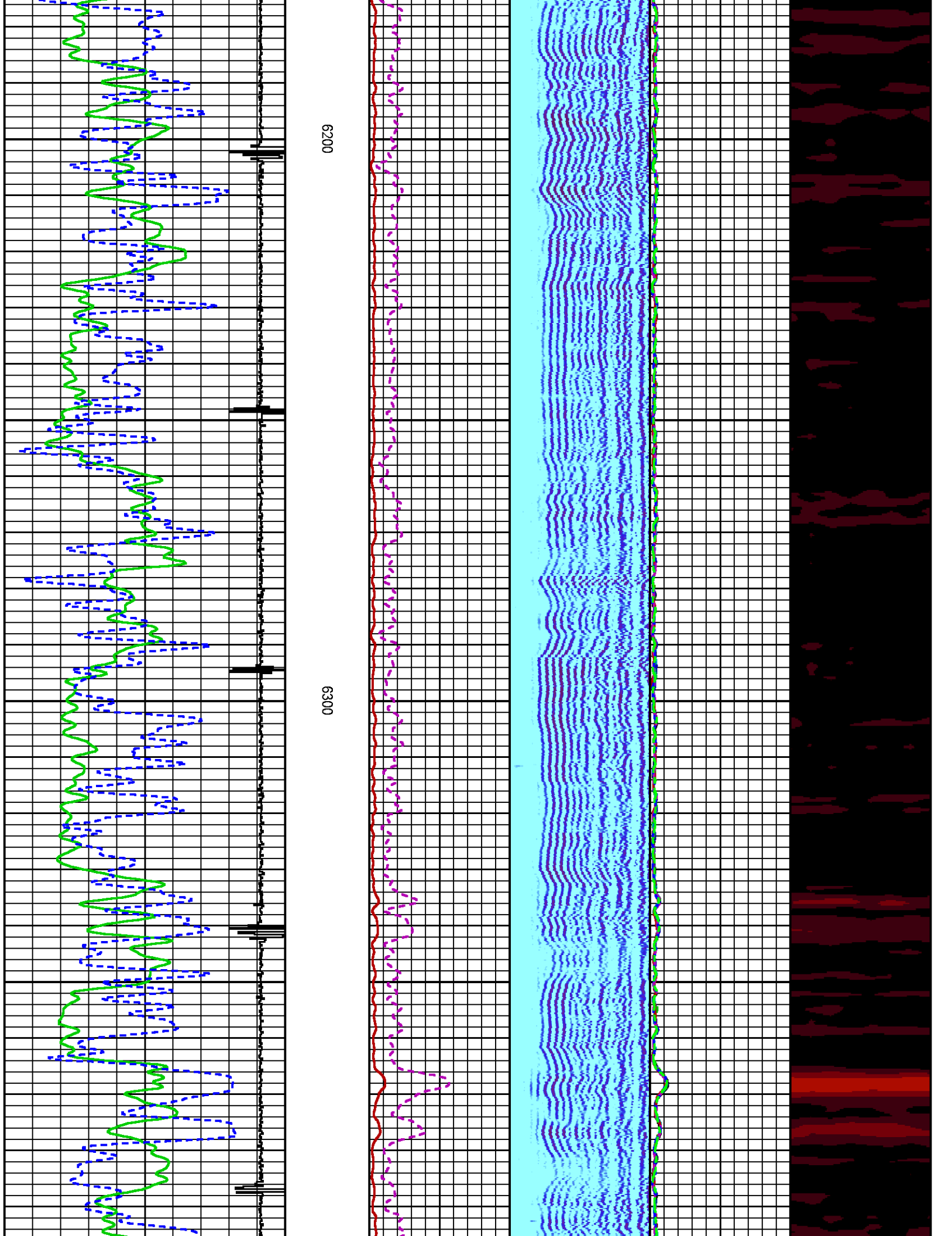




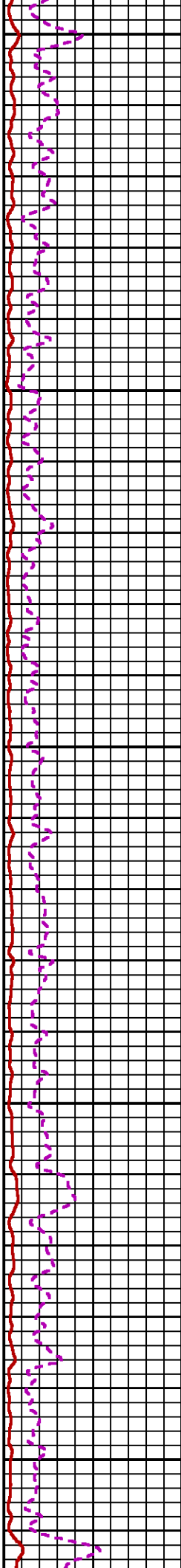
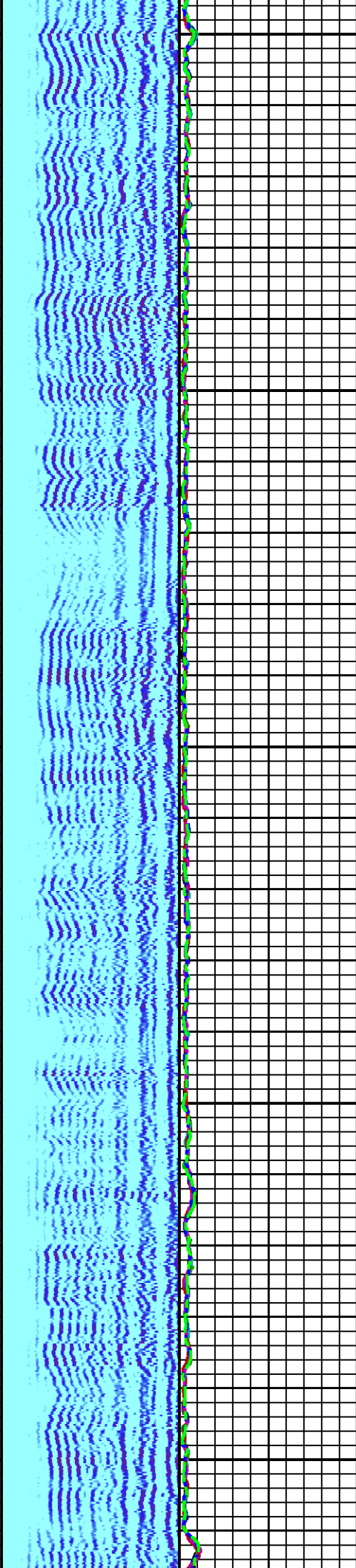
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6100





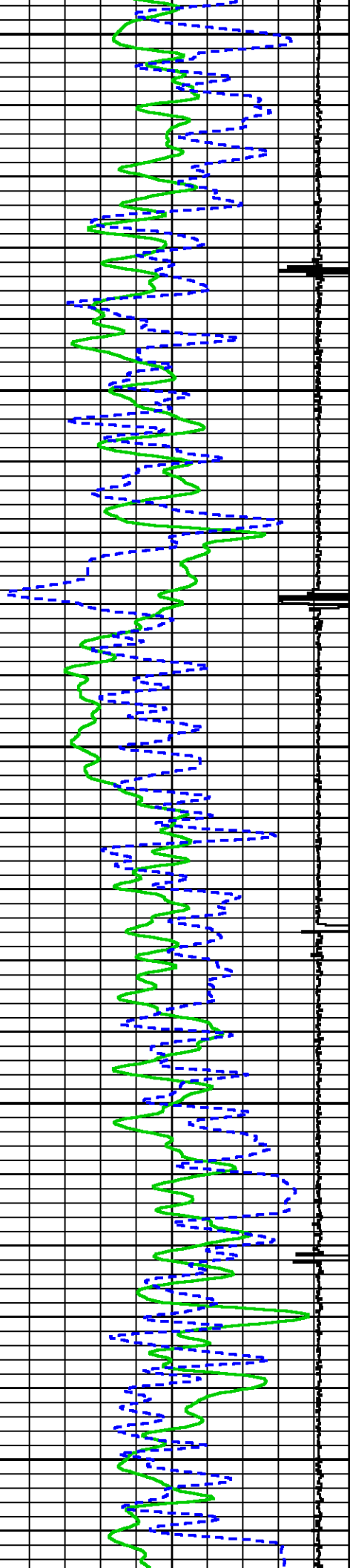


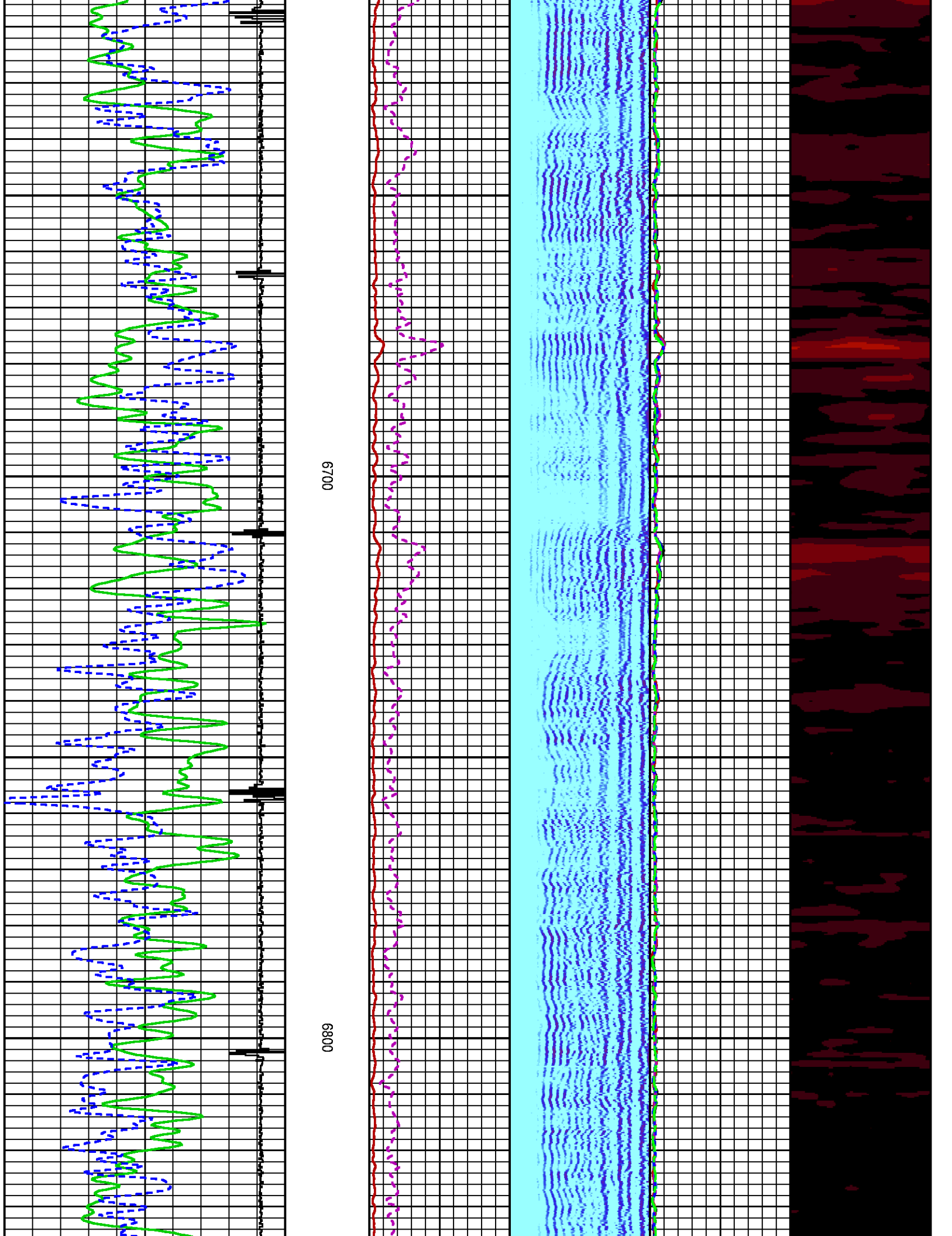


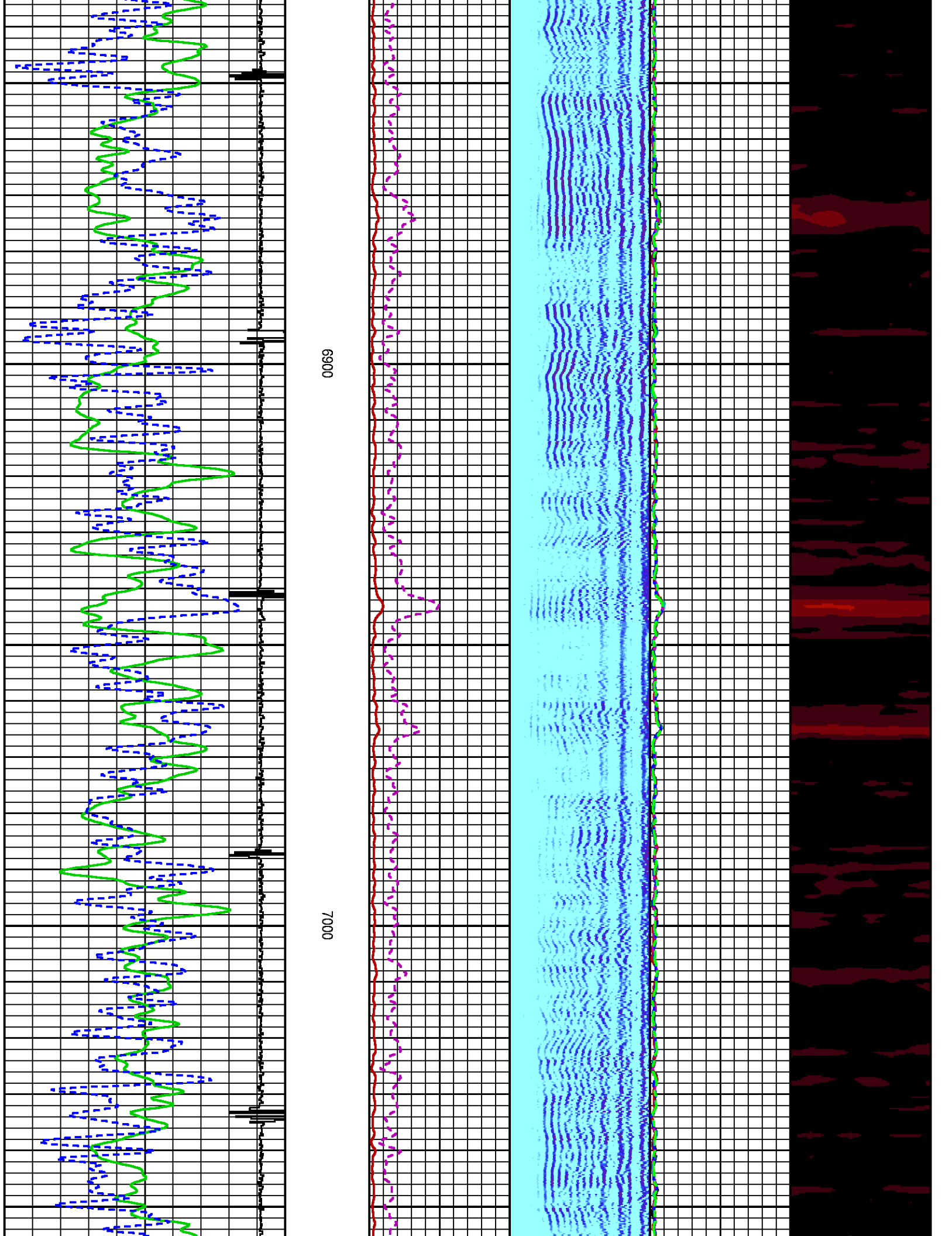
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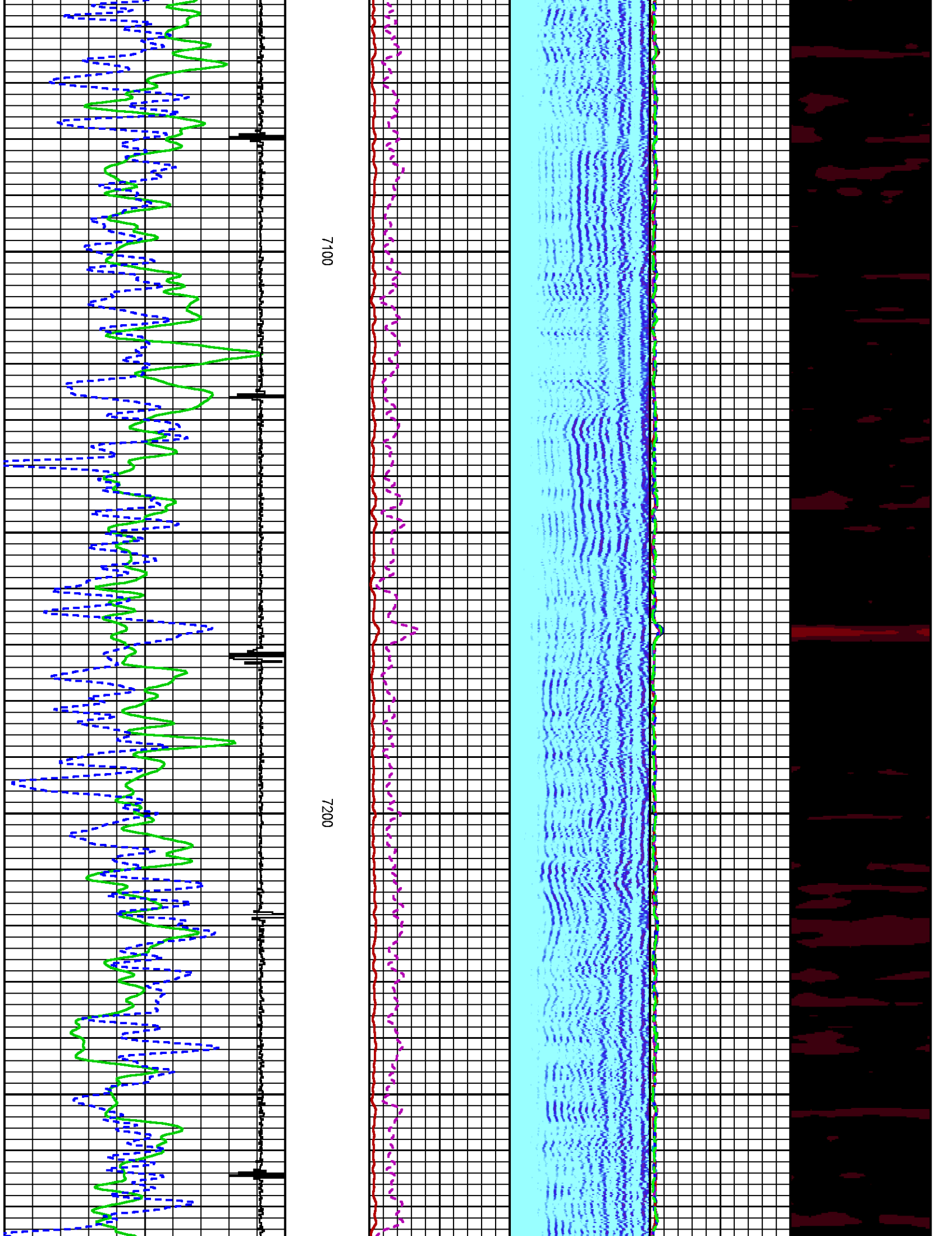
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6600

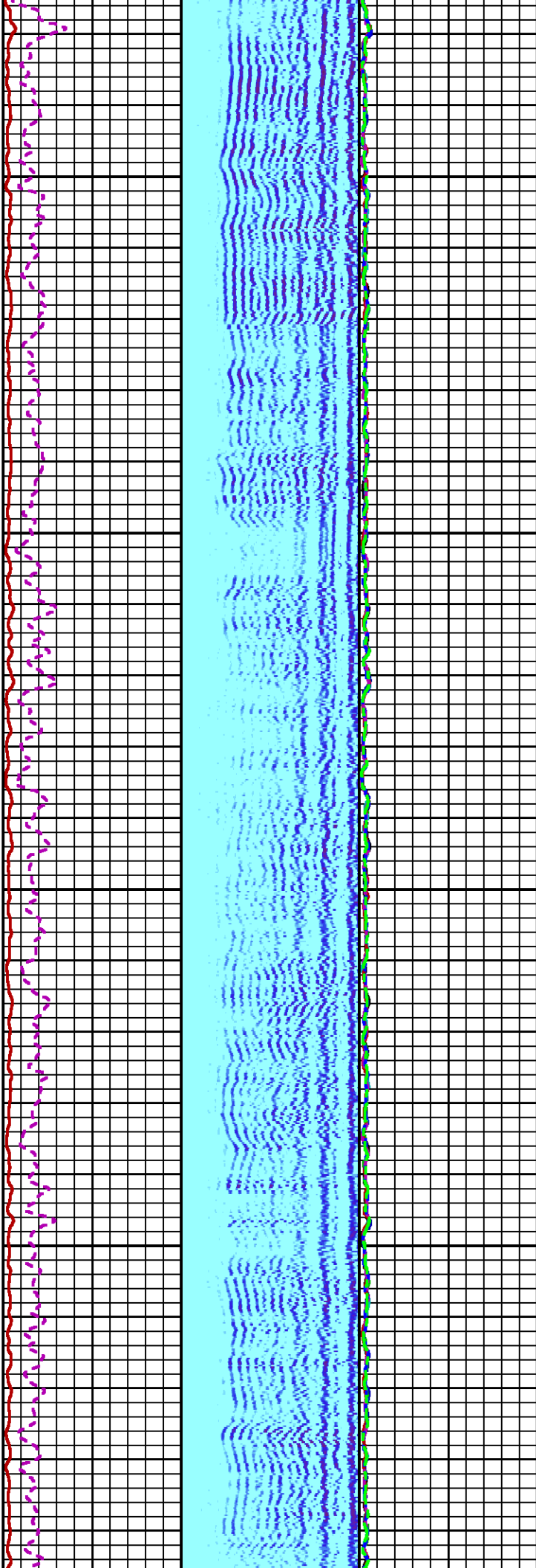






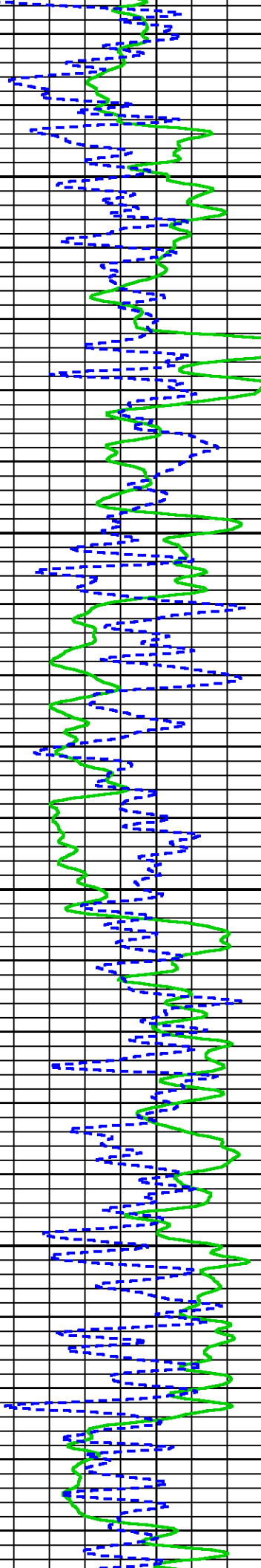
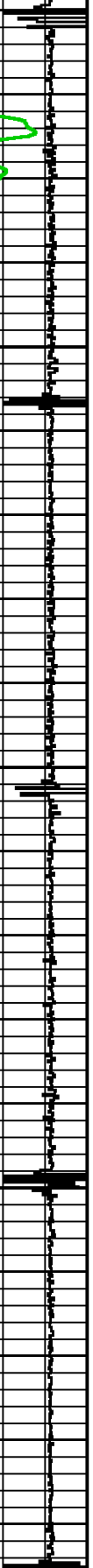


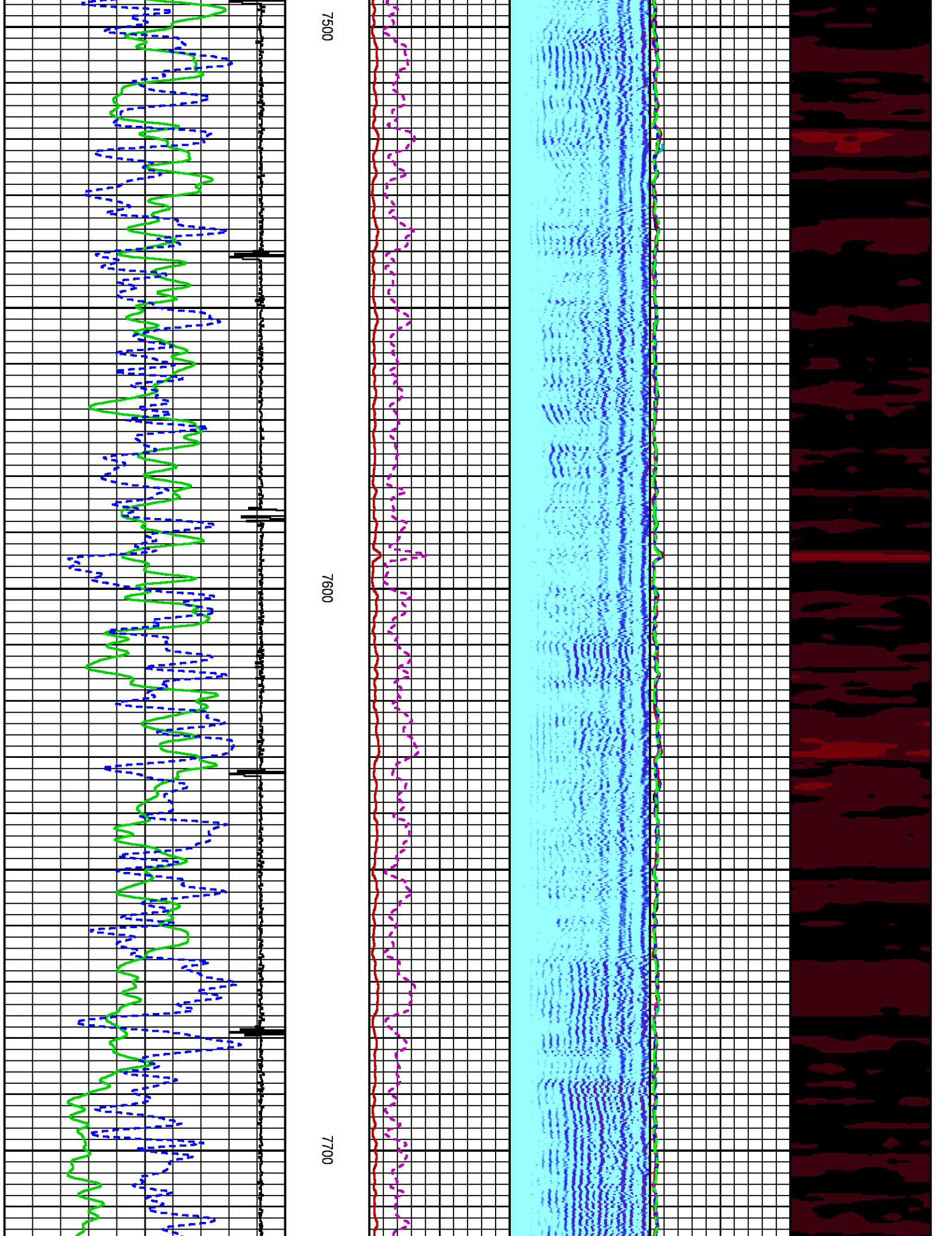


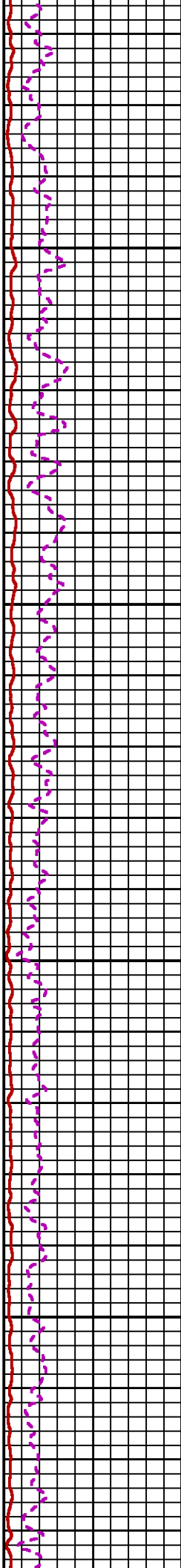
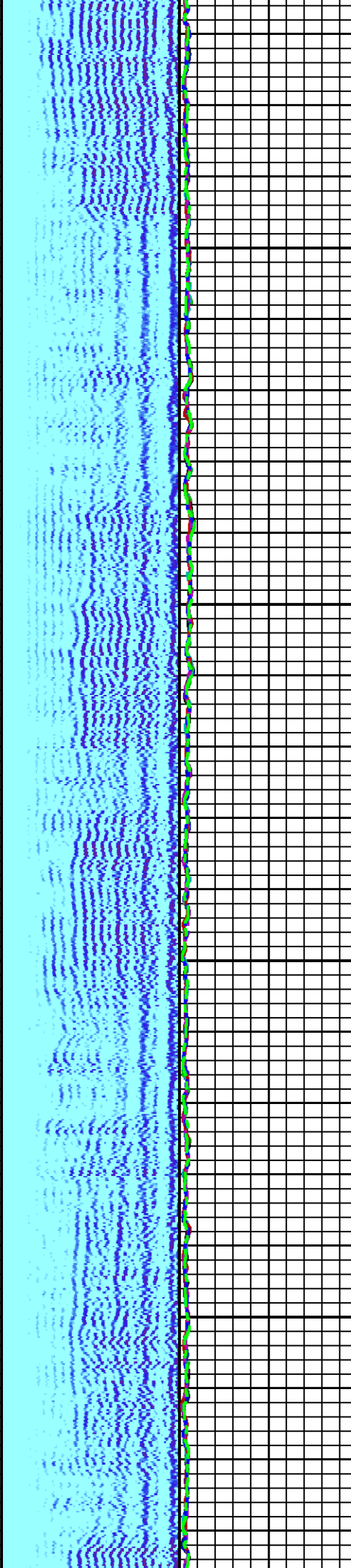
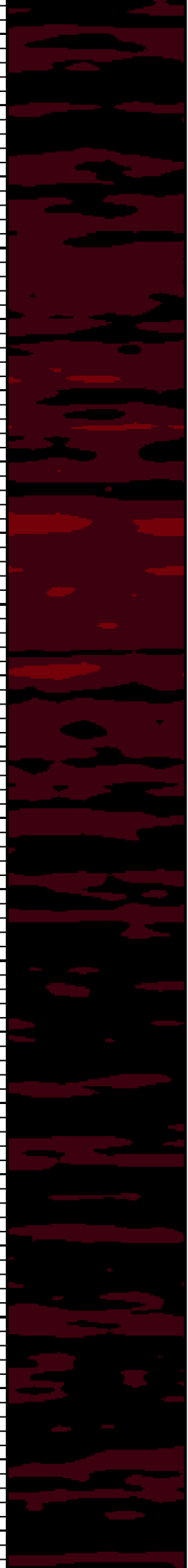


7300

7400

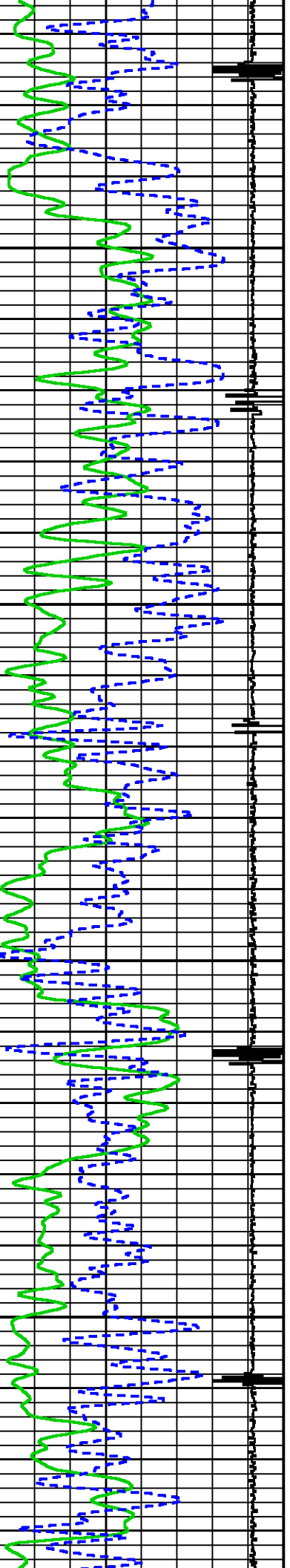


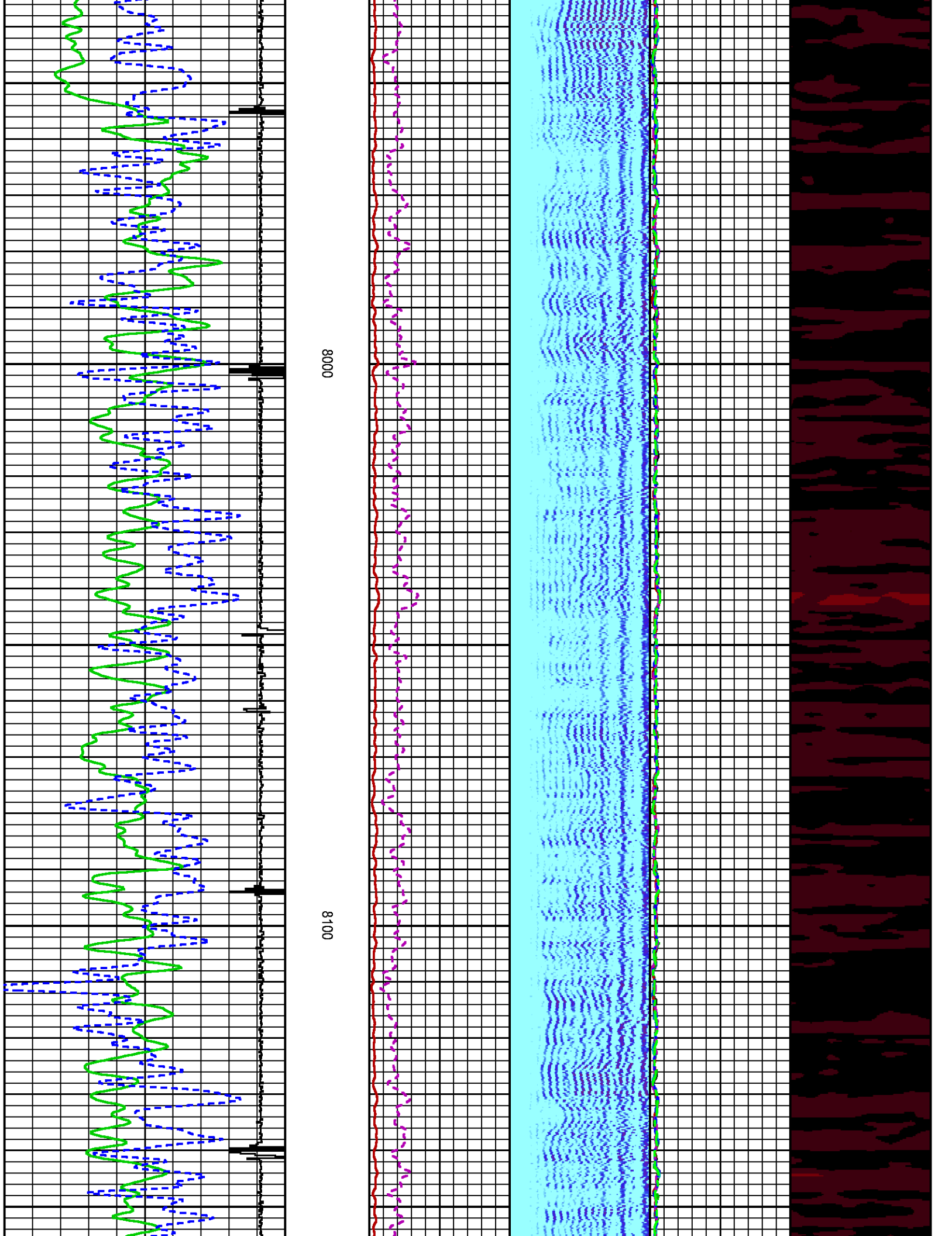




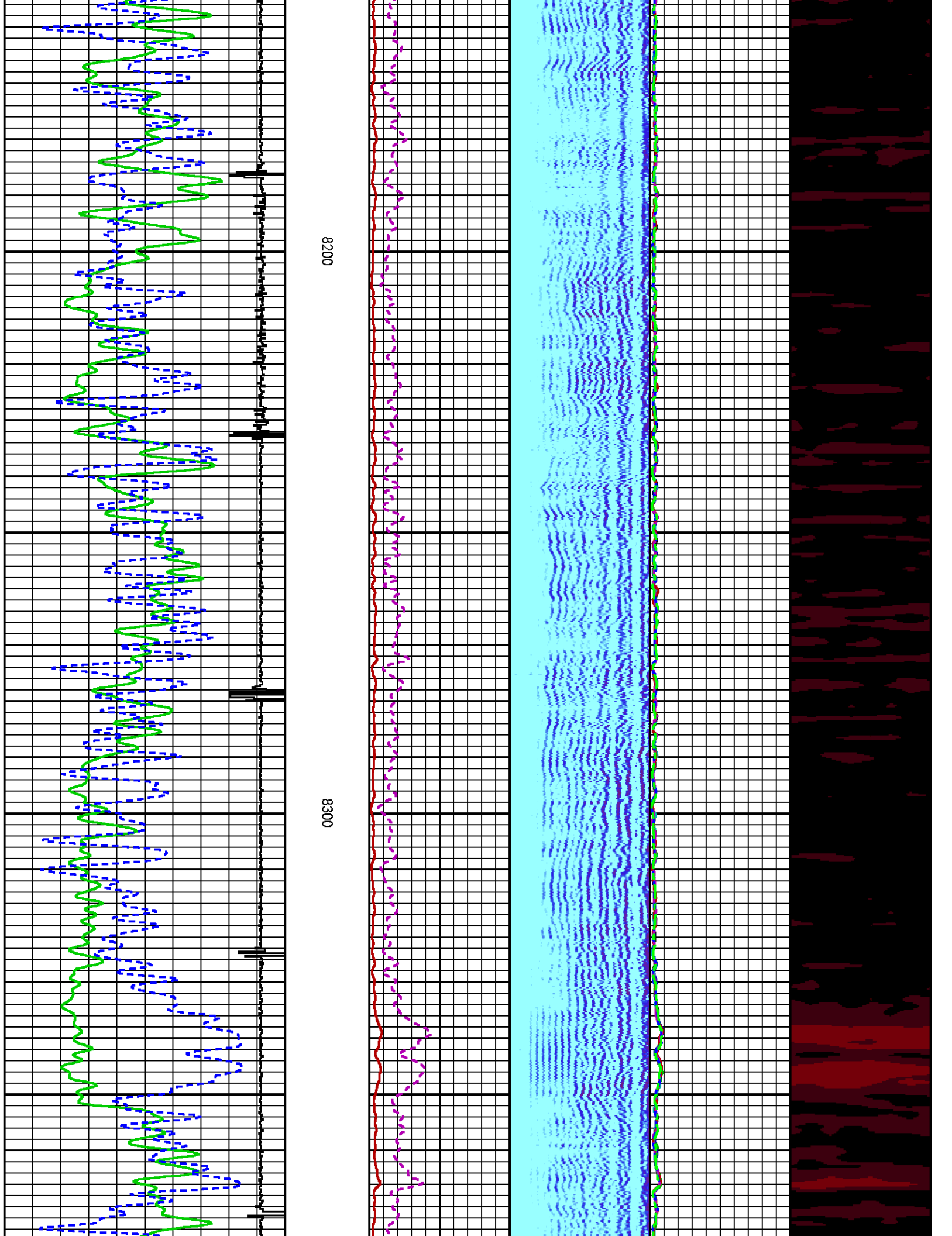
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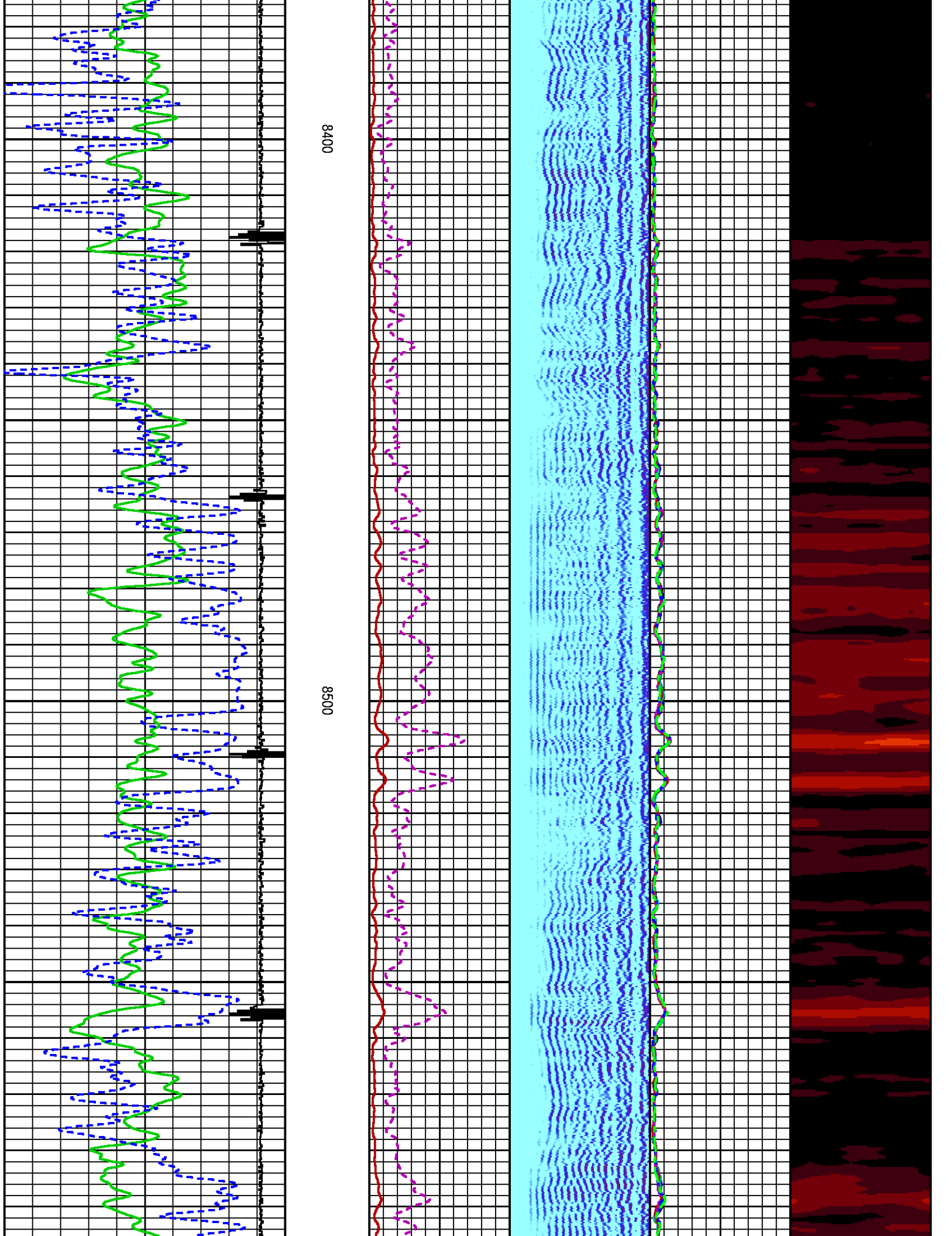
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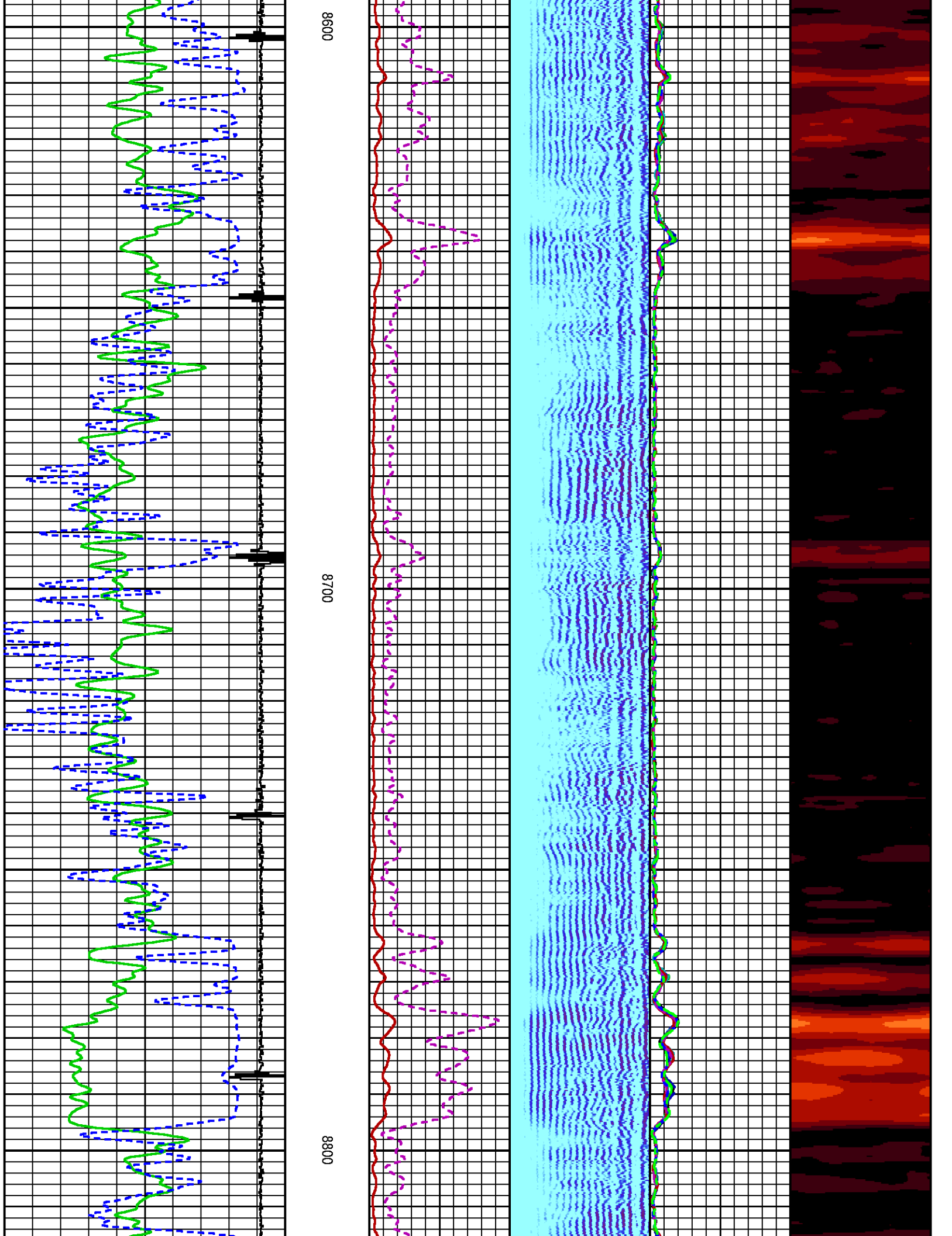


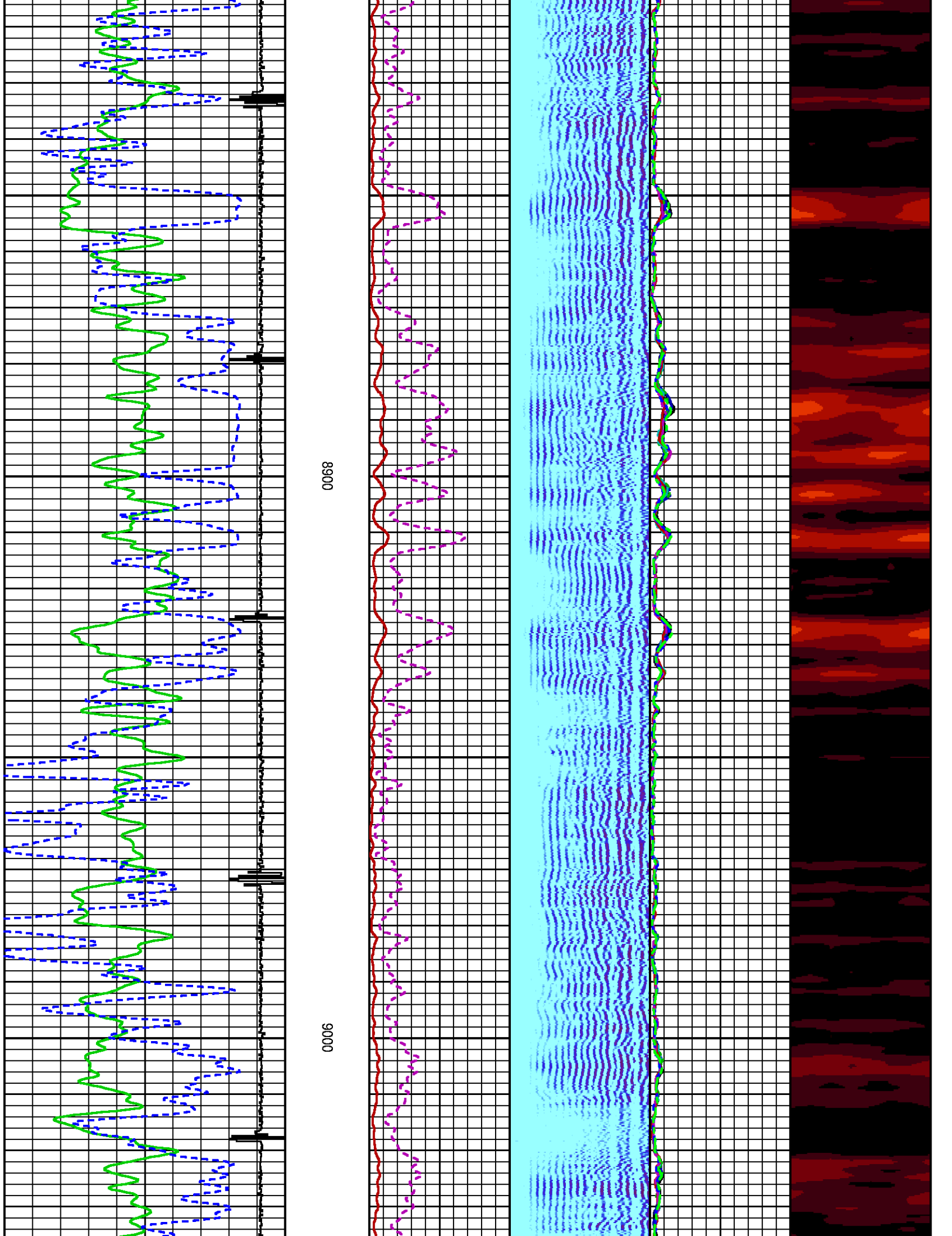




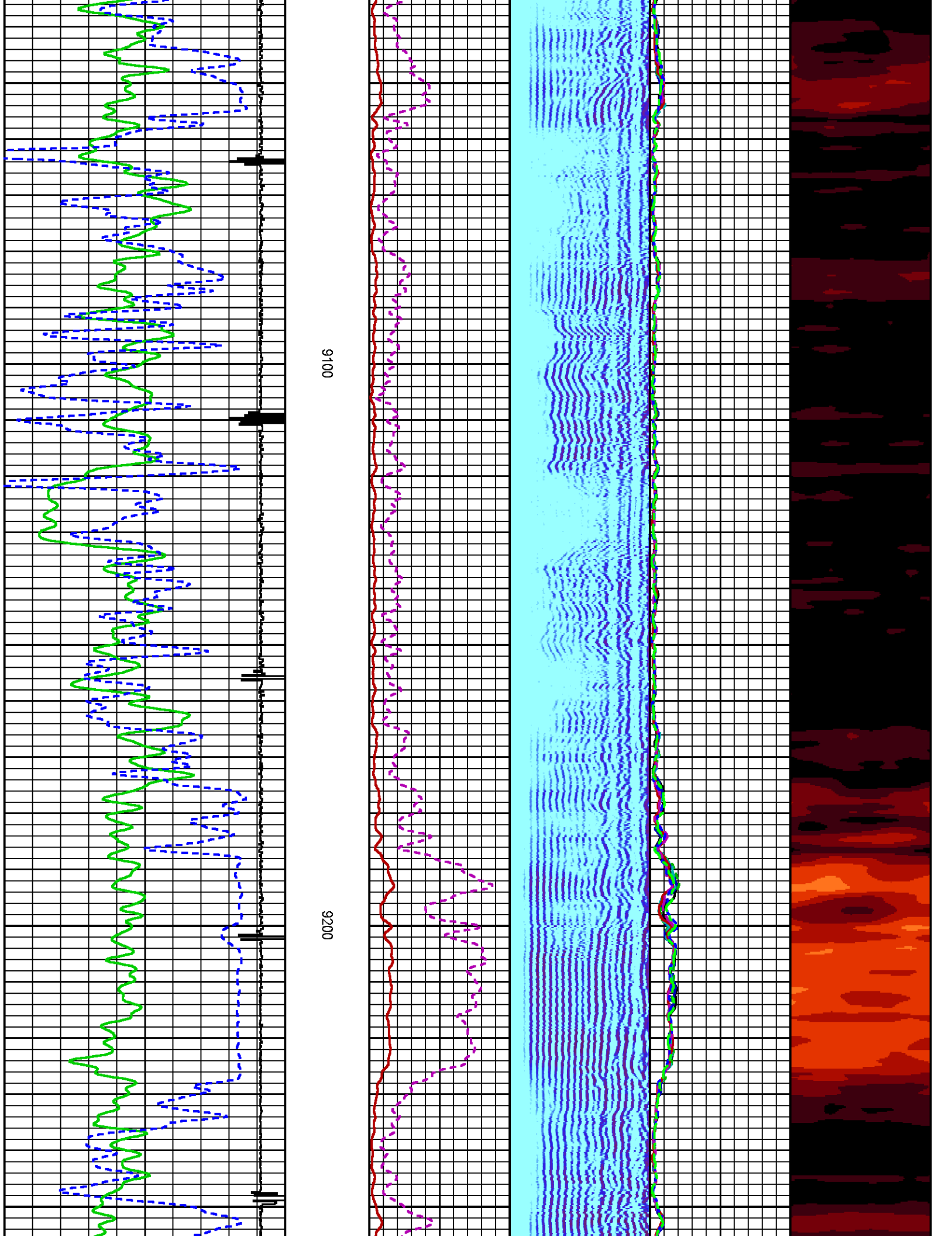


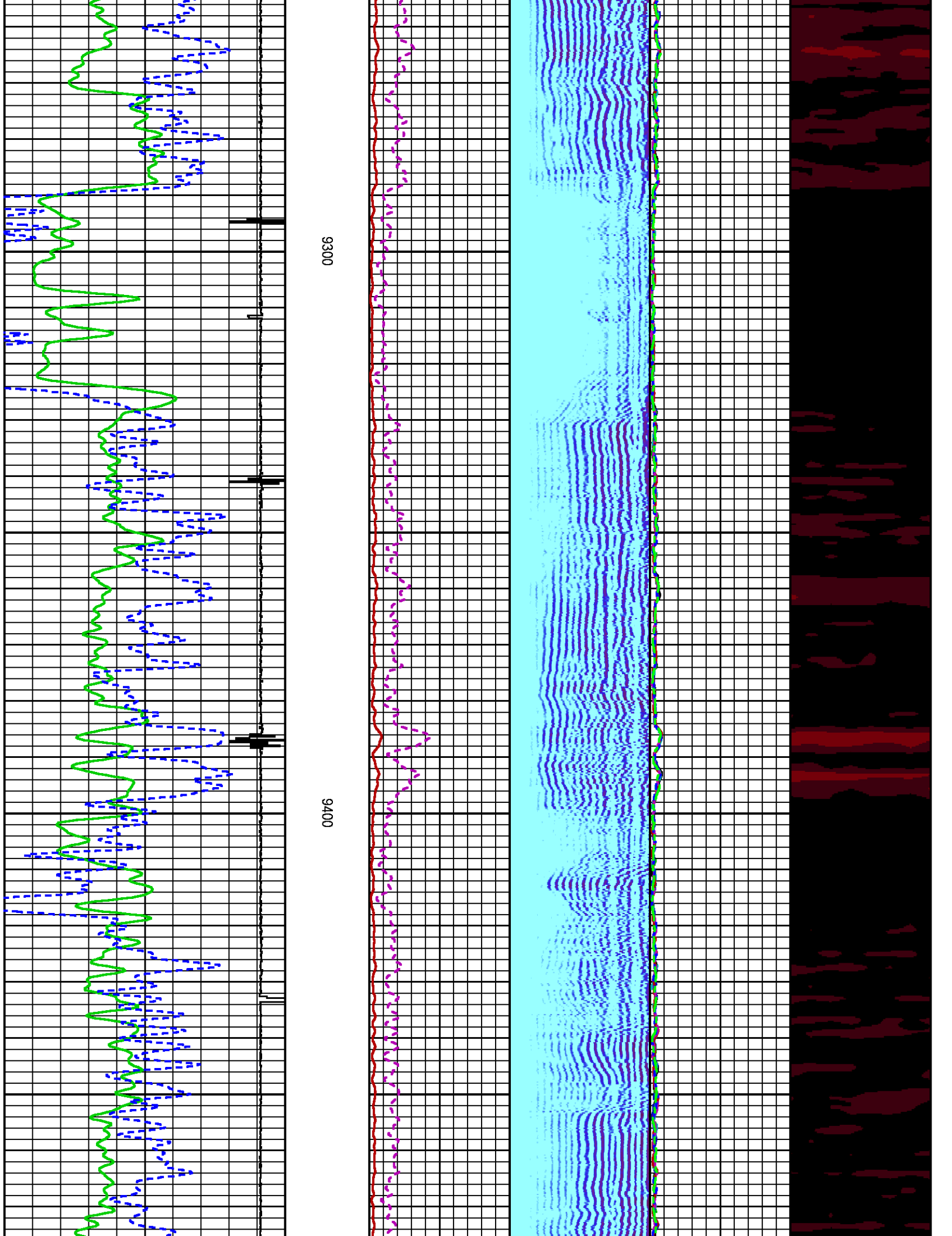


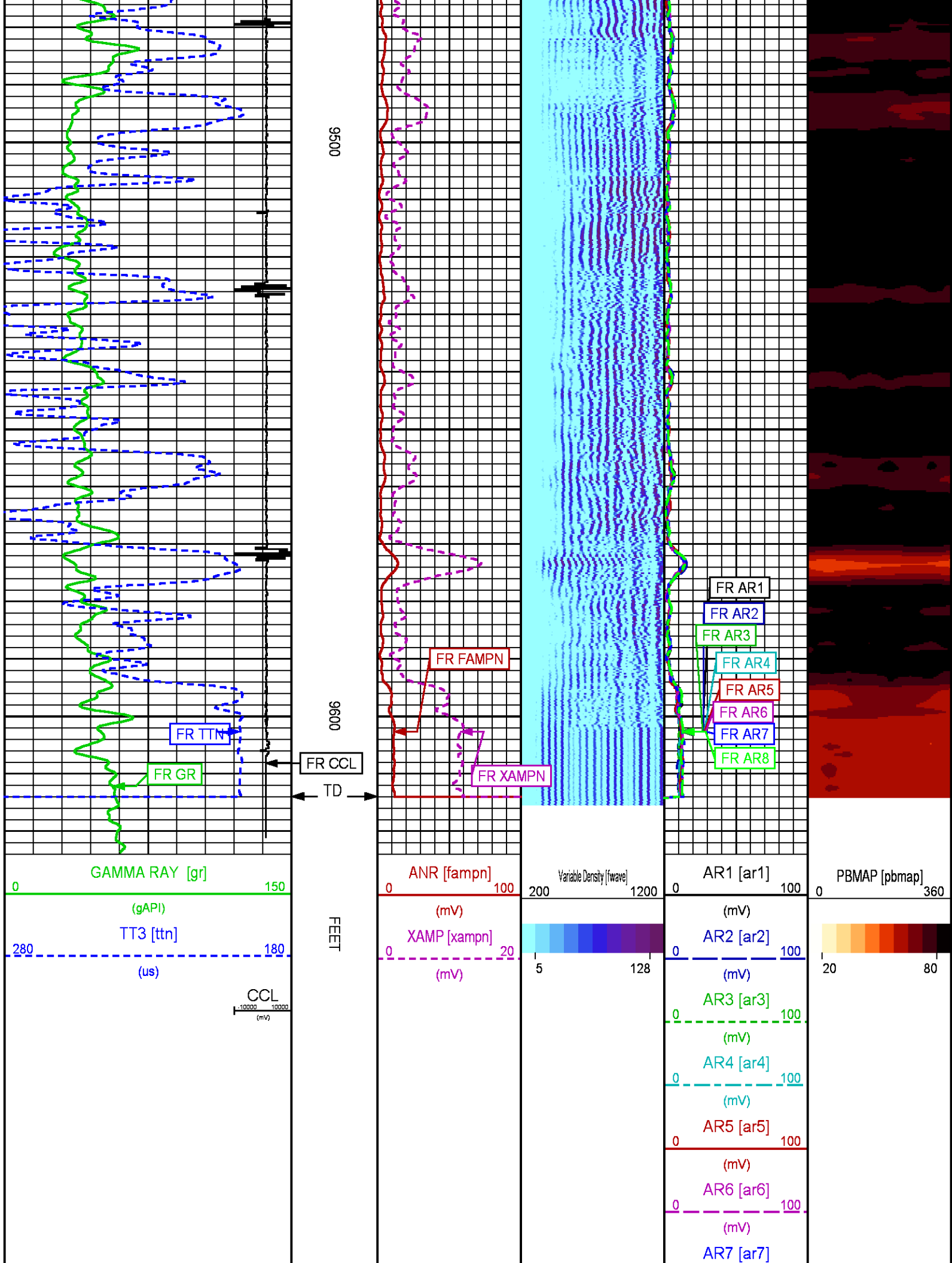


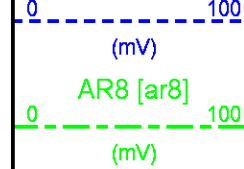












## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH108950/n012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Wed Aug 24 07:51:38 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)	2.08	2.69	2.41	2.54	2.13	2.34	2.10	2.06	2.32	3.80	0.08
AMP FLUID (mV)	78	78	79	79	79	78	77	77	77	107	82
TT (us)	214	214	213	213	213	214	214	213	215	321	214
M FACTOR	1.31	1.32	1.31	1.31	1.30	1.33	1.34	1.34	1.34	1.45	1.22

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10154957

DATE/TIME PERFORMED: Wed Aug 24 07:54:04 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	-0.33	-0.62	-0.68	-0.79	-0.59	-0.34	-0.88	-0.66	-0.55	0.26	-0.02
AMP AIR	1.03	1.21	1.12	1.58	1.38	0.90	1.50	1.36	1.26	0.86	100.39

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.22	0.00	1.00

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 12670181

DATE/TIME PERFORMED: Wed Aug 24 07:36:43 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	80.31	325.69	245.4	0.611	49.09	199.09	150

### GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 12670181

DATE/TIME PERFORMED: Wed Aug 24 07:38:10 2016



UNIT #: 3880TA HL6670

VERI JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	81.58	316.36	0.611	49.87	193.39	143.52
						140.00 160.00

## INSTRUMENT CONFIGURATION

Source File: /dat1a/CH108950/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  
Measure Point: 1.67': GR  
Measure Point: 0.17': TEMP

TOTAL LENGTH: 20.38'  
TOTAL WEIGHT: 225 lbs  
MAX DIAMETER: 0'4.25"

20.38'

NEAR RCVR 11.17'

FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'



COMPANY  
WELL  
FIELD

TEP ROCKY MOUNTAIN LLC  
YOUBERG RU 523-7  
RULISON

FILE NO:  
OH108950  
API NO:



COUNTY	<u>GARFIELD</u>	STATE	<u>COLORADO</u>	<u>05045231290000</u>
LOCATION:	SHL: 2023' FNL & 1887' FWL BHL: 1762' FSL & 1345' FWL		ELEVATIONS: KB 7363 FT DF GL 7339 FT	SEC.7 T.7S R.93W RIG: H&P 318 PAD: RU 22-7
SEC	<u>7</u>	TWP	<u>7S</u>	RGE <u>93W</u>
DATE			<u>24-Aug-2016</u>	