



FILE NO: CH101064	COMPANY WELL FIELD COUNTY	WPX ENERGY FEDERAL RU 21-8 RUILISON GARFIELD	STATE COLORADO
API NO: 05045227830000			

Ver. 4.01 SEC 8 TTS R93W RU 21-8 PAD H&P 318	LOCATION: SHL: 653 FNL & 1876 FWL BHL: 627 FNL & 1436 FWL SEC 8 TWP 7S RGE 93W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB KB	ELEVATION 24 FT ABOVE P.D.	ELEVATIONS: KB 7760 FT DF GL 7736 FT
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DATE	07-DEC-2015
RUN	1
SERVICE ORDER	US101064
DEPTH DRILLER	9964 FT
DEPTH LOGGER	9924 FT
BOTTOM LOGGED INTERVAL	9914 FT
TOP LOGGED INTERVAL	0 FT
TIME STARTED	7:30
TIME FINISHED	11:00
OPERATOR RIG TIME	3.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	57 FT
LOGGED CEMENT TOP	SEE LOG
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 FMN
MAX. RECORDED TEMP.	230 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	25-NOV-2015
EQUIP. NO.	6670
LOCATION	GRAND JCT
RECORDED BY	P. EDWARDS
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
13.5 IN	24 FT	1200 FT
8.75 IN	24 FT	9964 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			24 FT	1200 FT
4.5 IN	11.6 LB/F	P-110	24 FT	9964 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 HDIL/ZDL/CN/GR LOG DATED 25/NOV/2015 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 8 FEET

LOGGED WITH ZERO PSI AT WELLHEAD.

BHT = 230 DEGF

SJ = 6108' - 6131'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10417452	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: 6

Plotted: Mon Dec 7 11:47:50 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH101064/n012g03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 6.750 ft BOTTOM DEPTH: 8823.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	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*)	-72	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

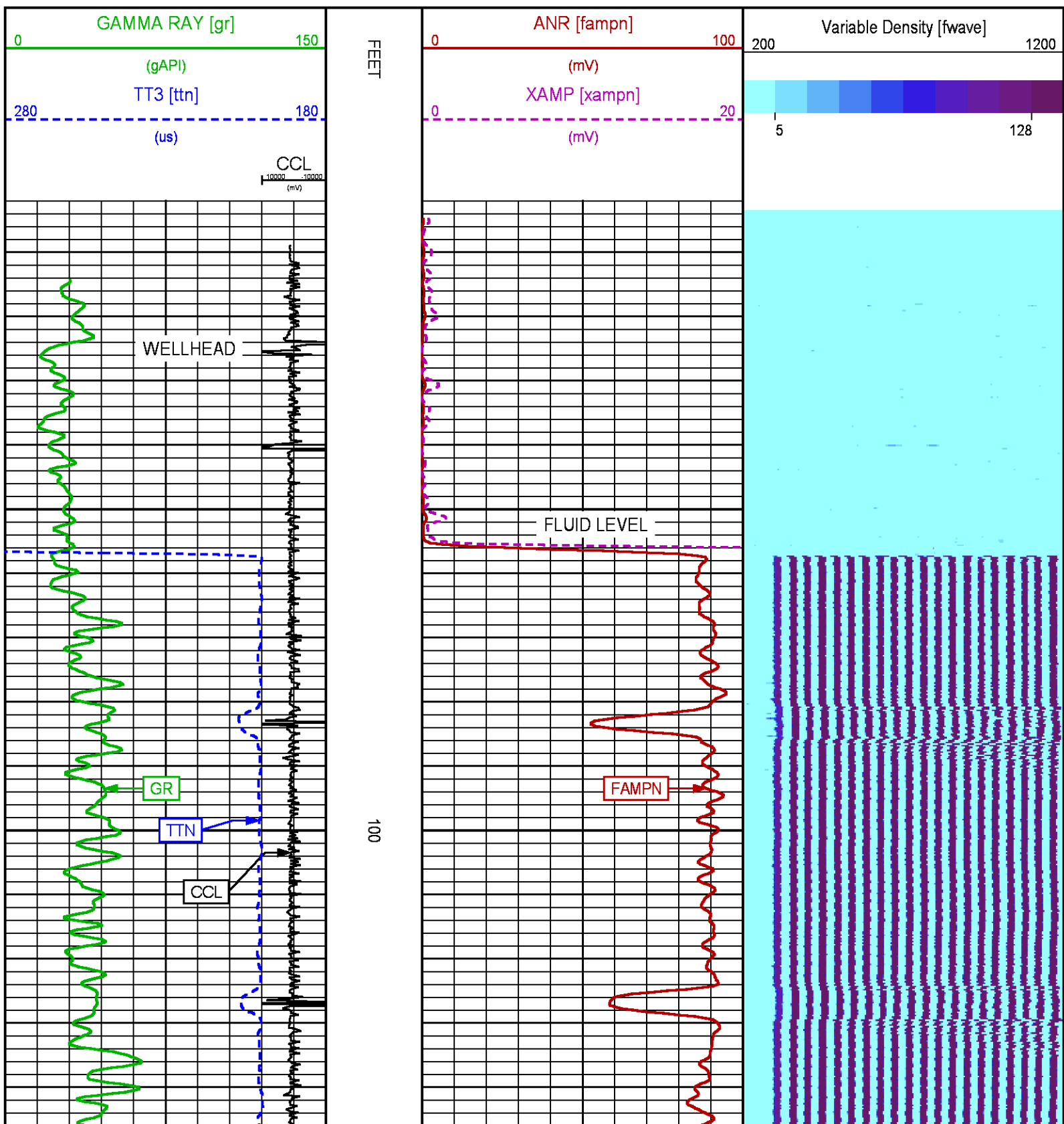
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 7 09:33:31 2015	CASING COLLAR LOCATOR
F1:FAMPN	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 7 09:33:31 2015	FAR WAVE FORM
F1:GR	Dec 7 09:33:31 2015	GAMMA RAY
F1:TTN	Dec 7 09:33:31 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

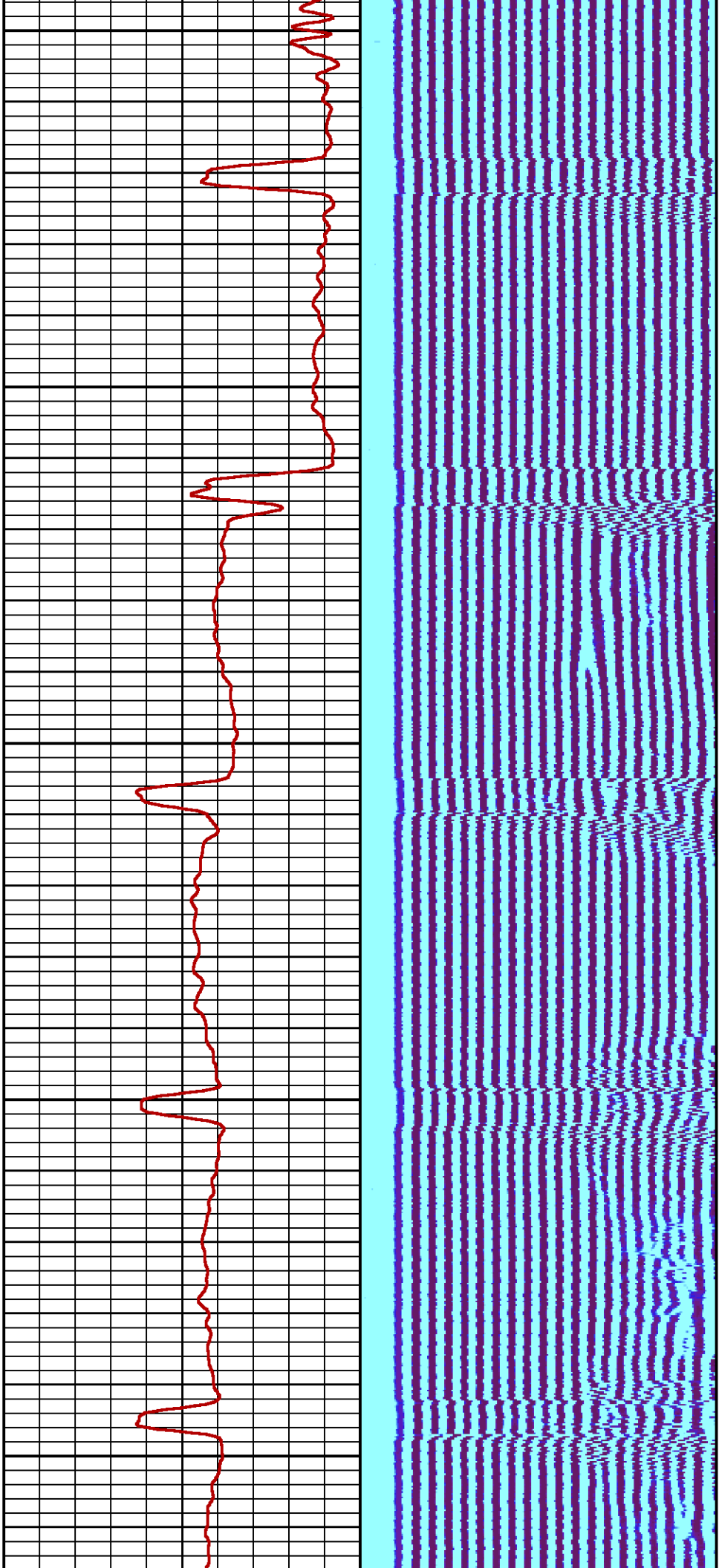
CURVE MEASURE POINT OFFSET

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 : HL6670:/dat1a/CH101064/WPX_CBL_PRIMARY_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval : 3.5 - 9939 Feet

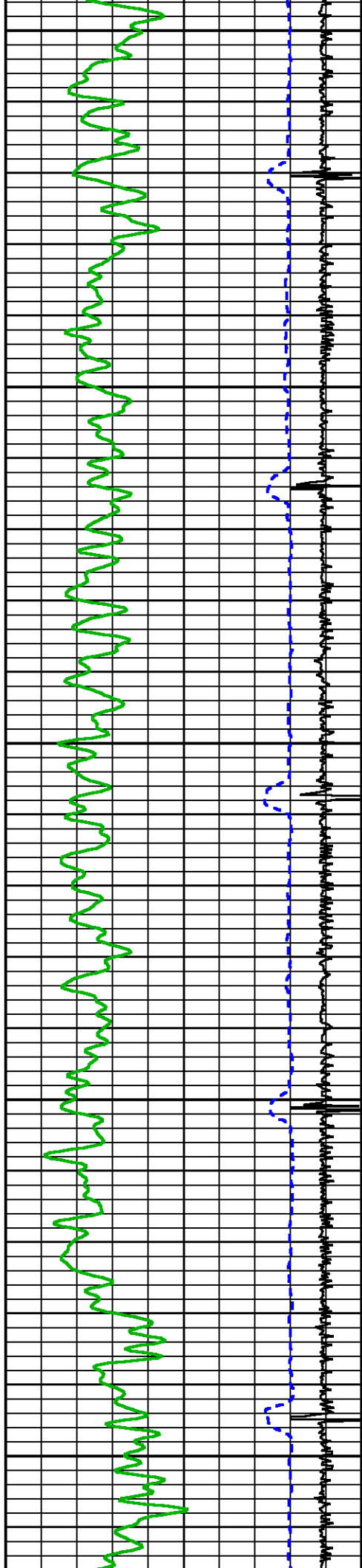
Data File 1 : F1 : HL6670:/dat1a/CH101064/FEDRU218s.xtf
Created On : Dec 7 09:33:31 2015
Company : WPX ENERGY
Well : FEDERAL RU 21-8
Field : RUILISON
File Interval : 3.5 - 9939 Feet
OCT : n012g

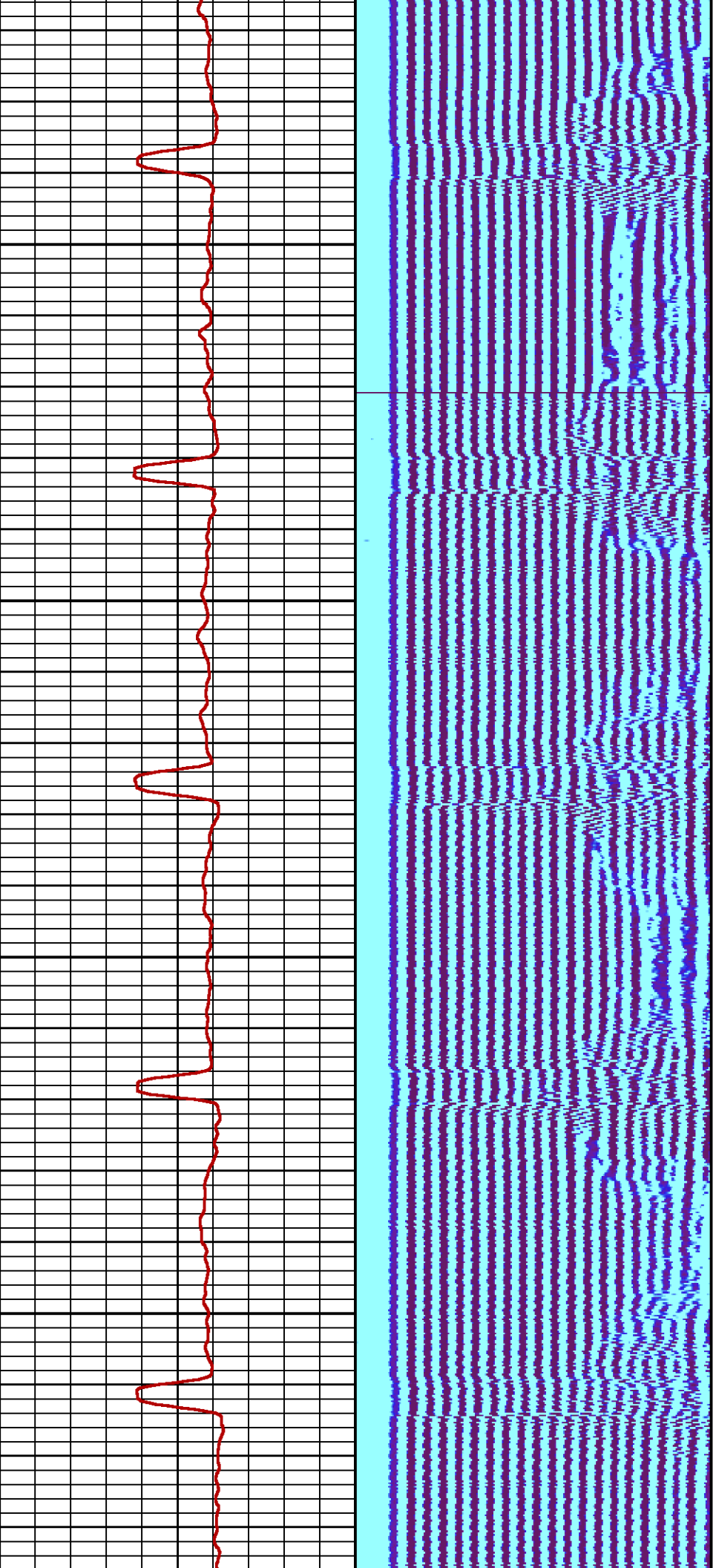




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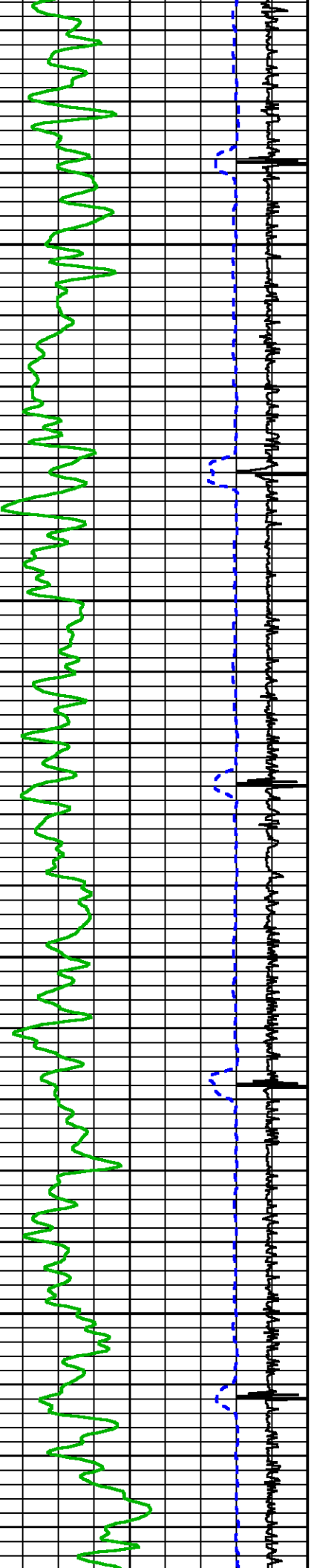
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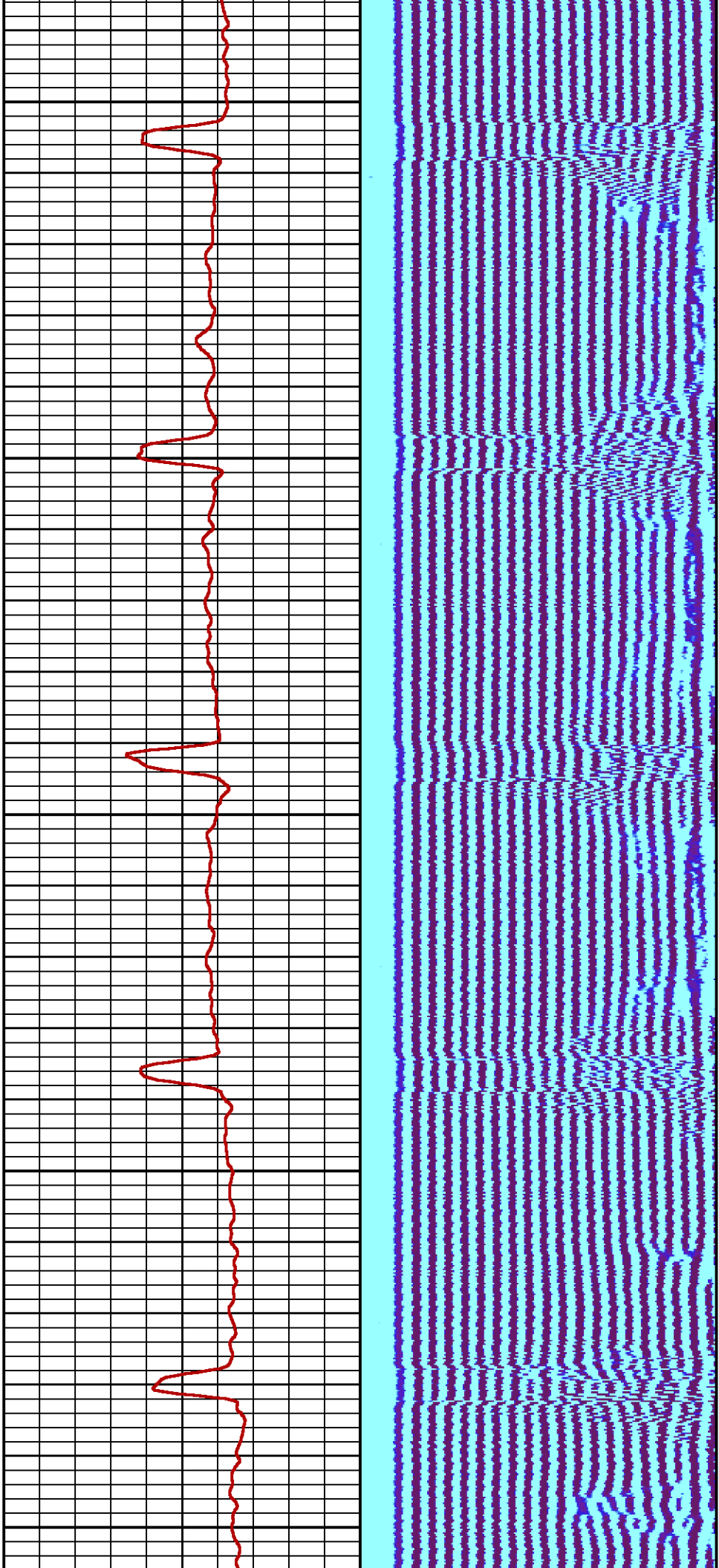




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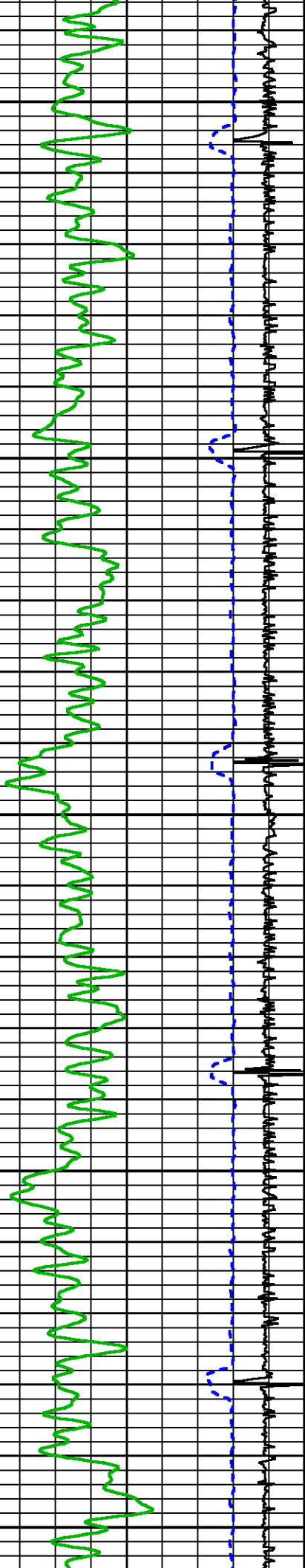


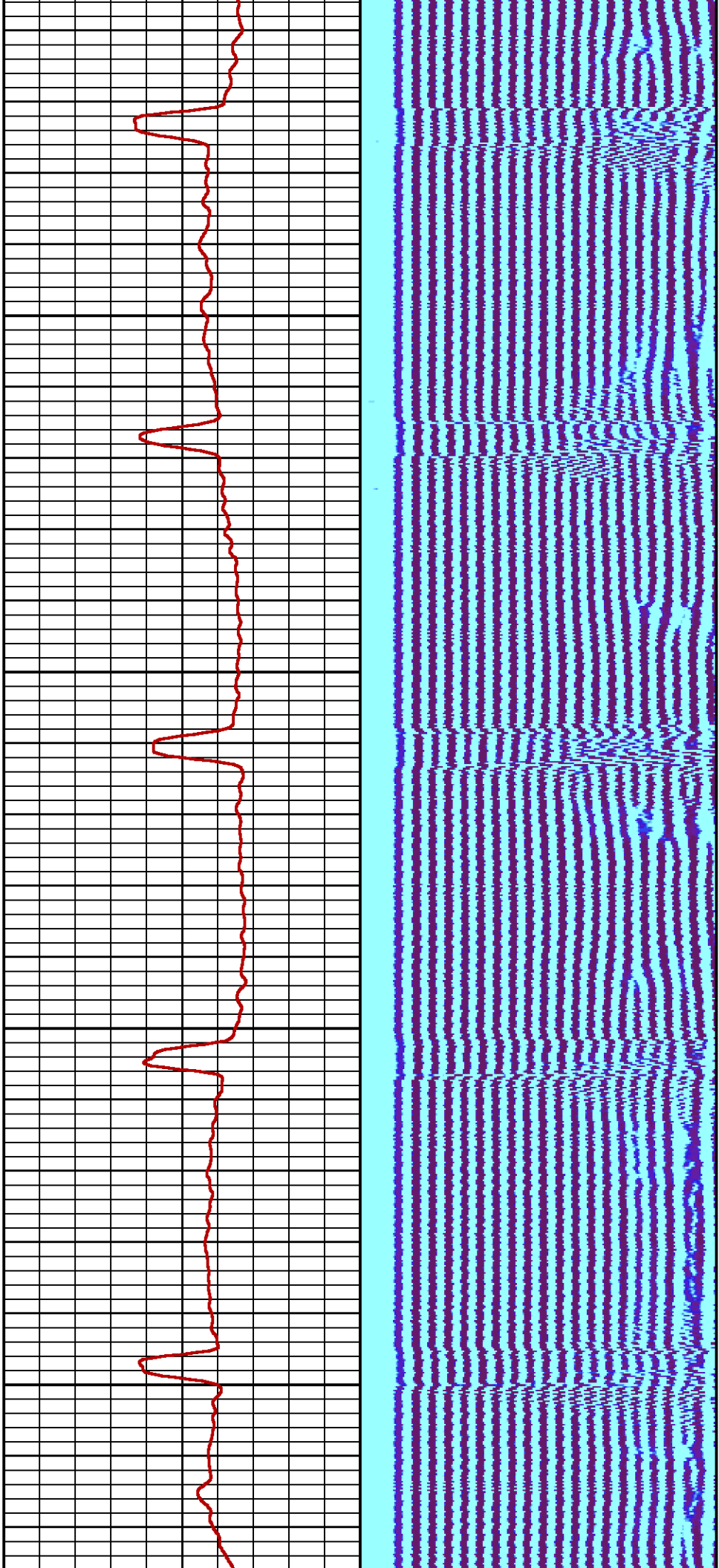


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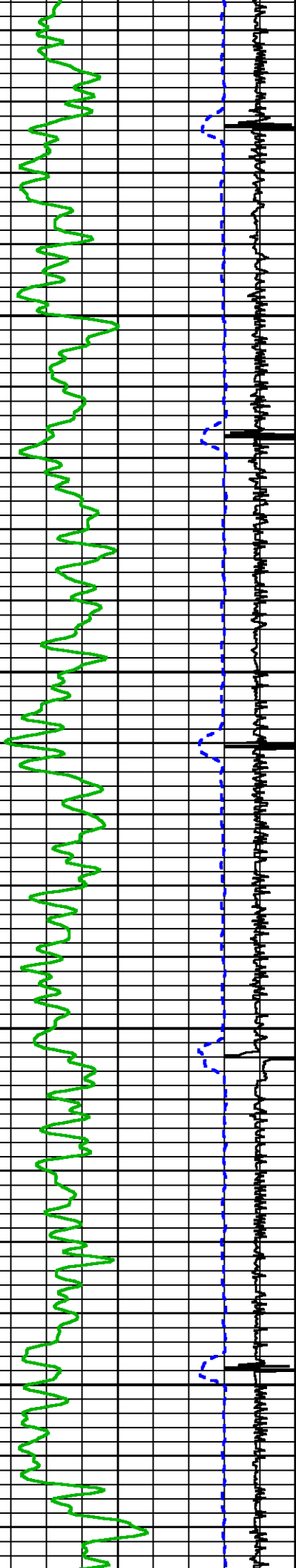
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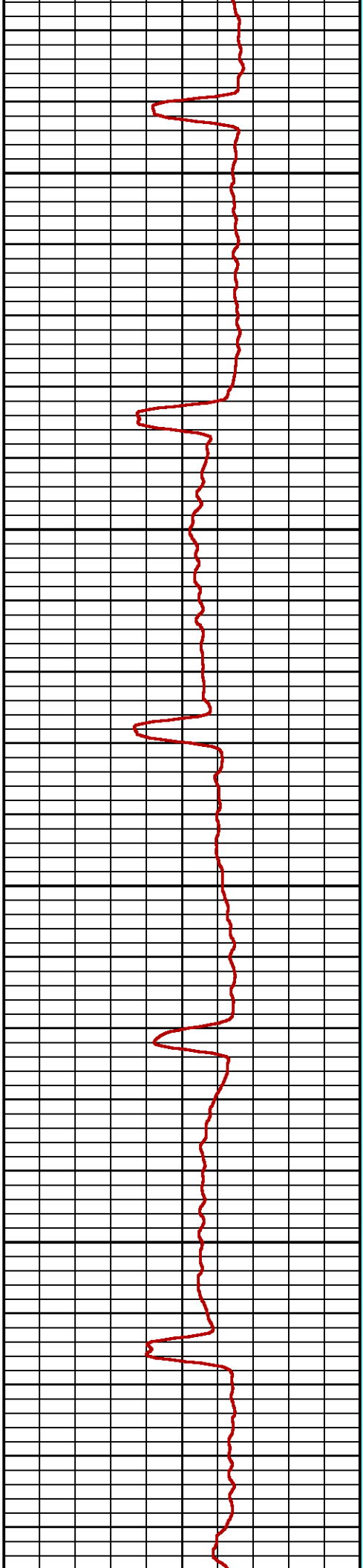
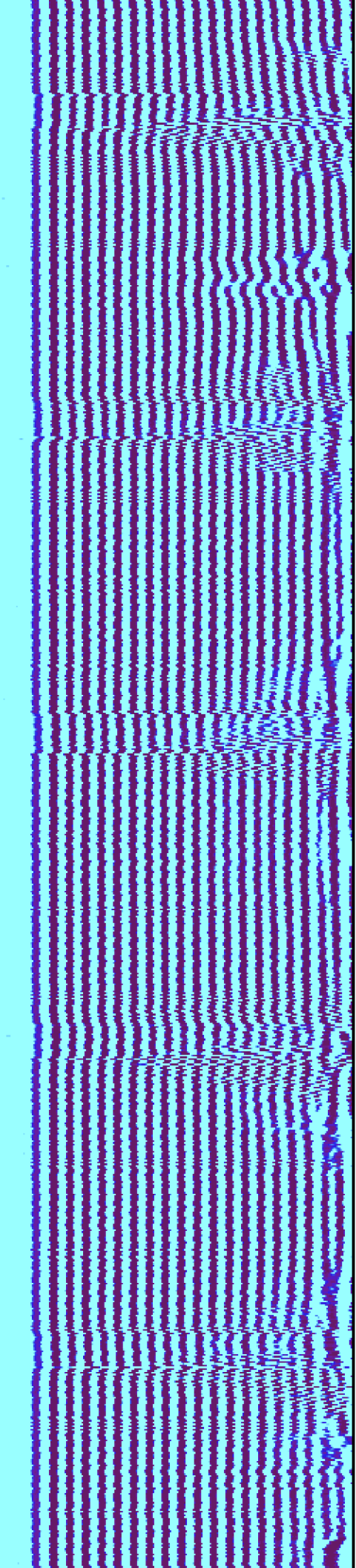




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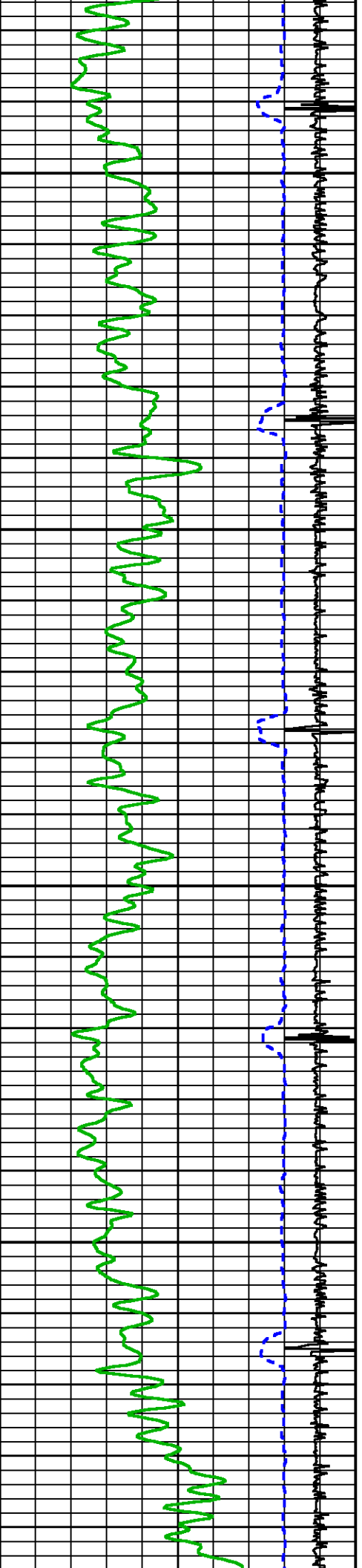
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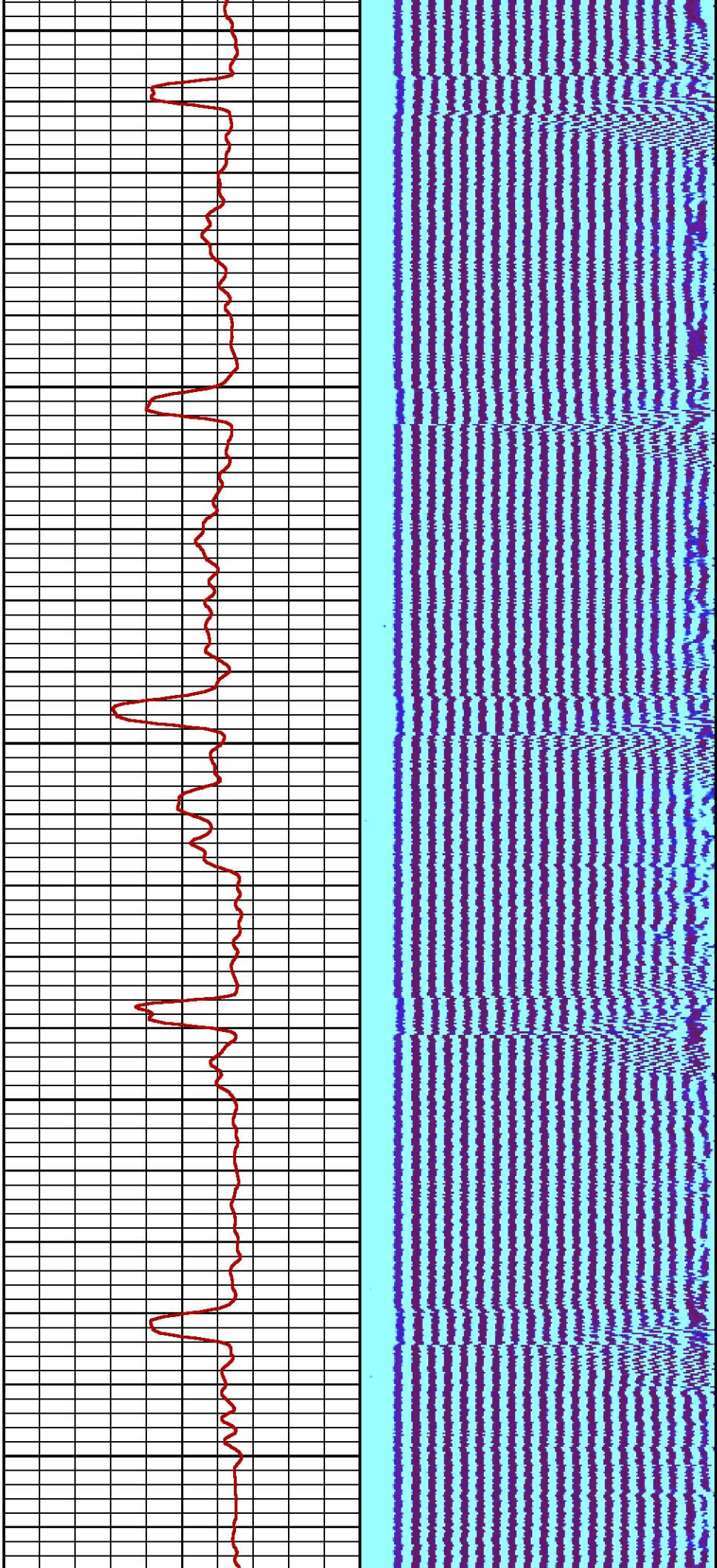




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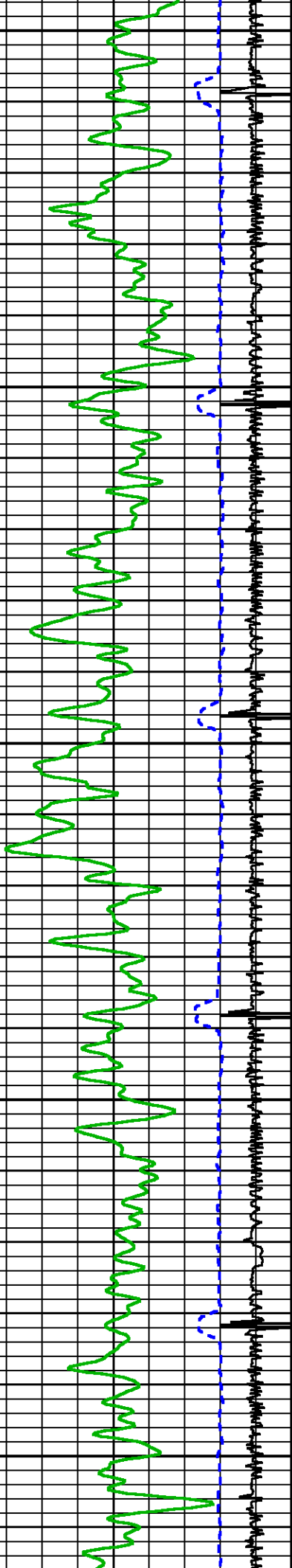
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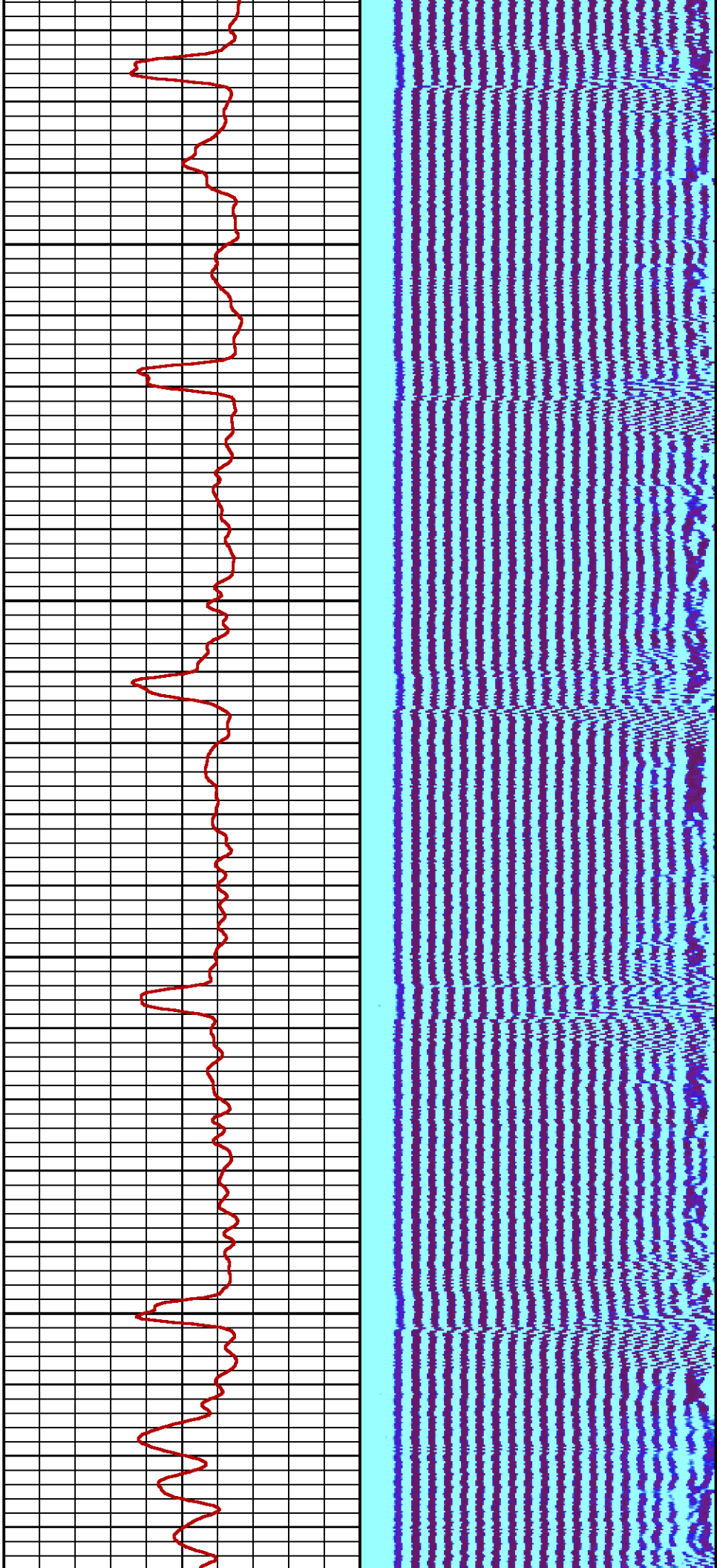




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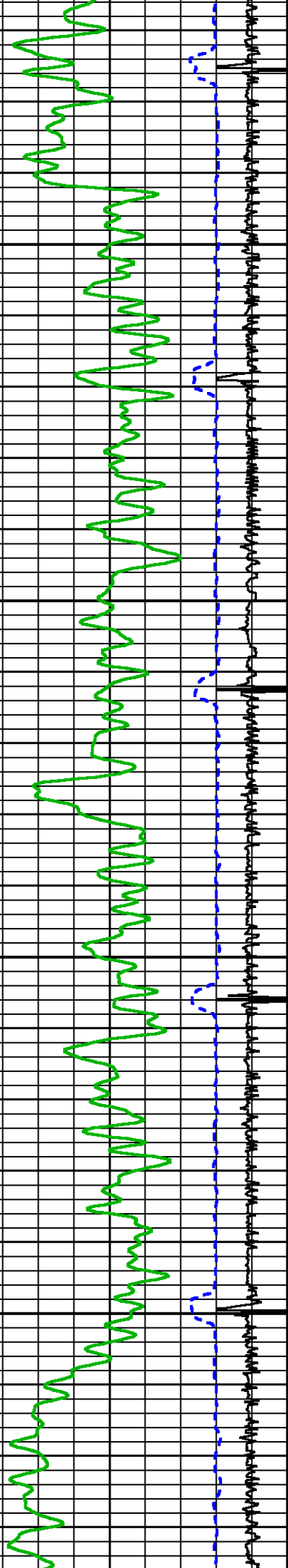
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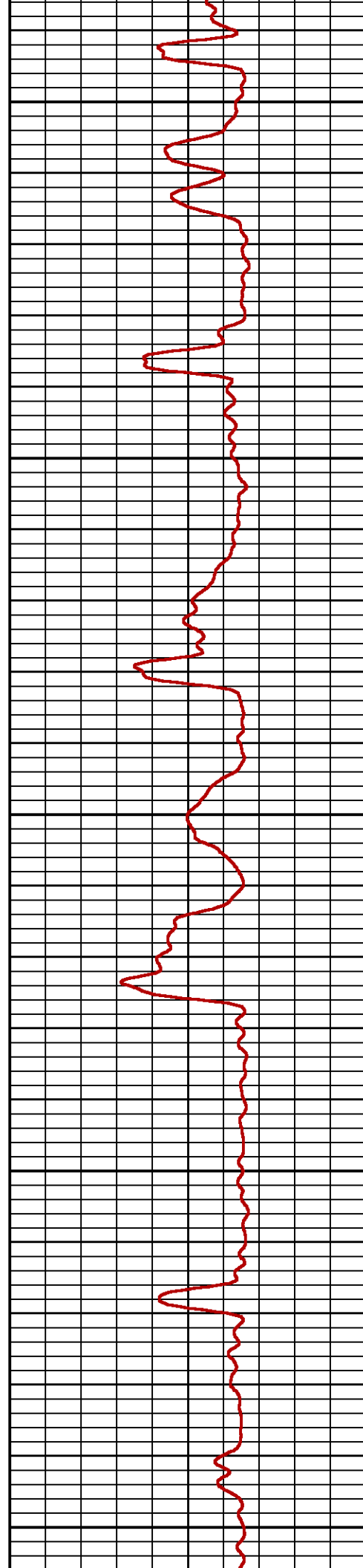
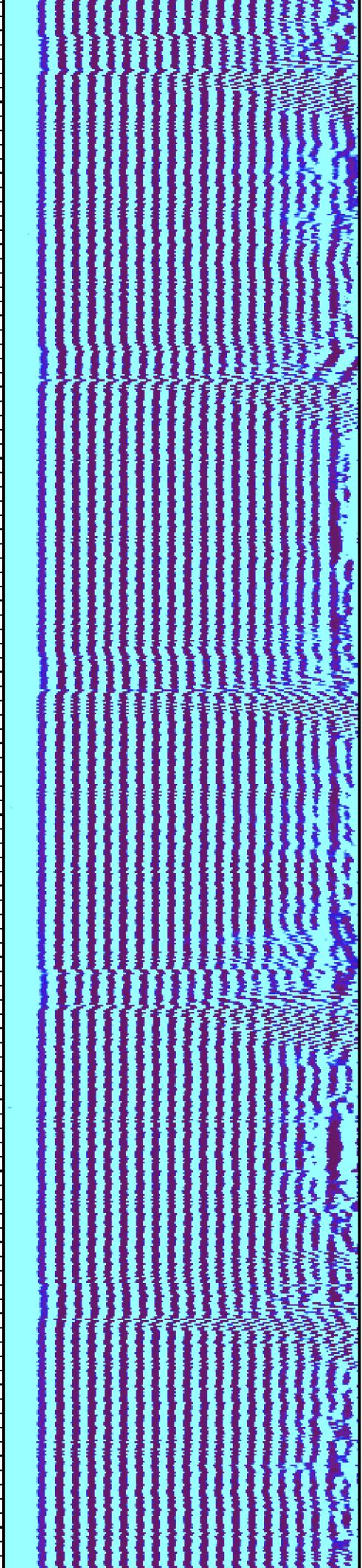




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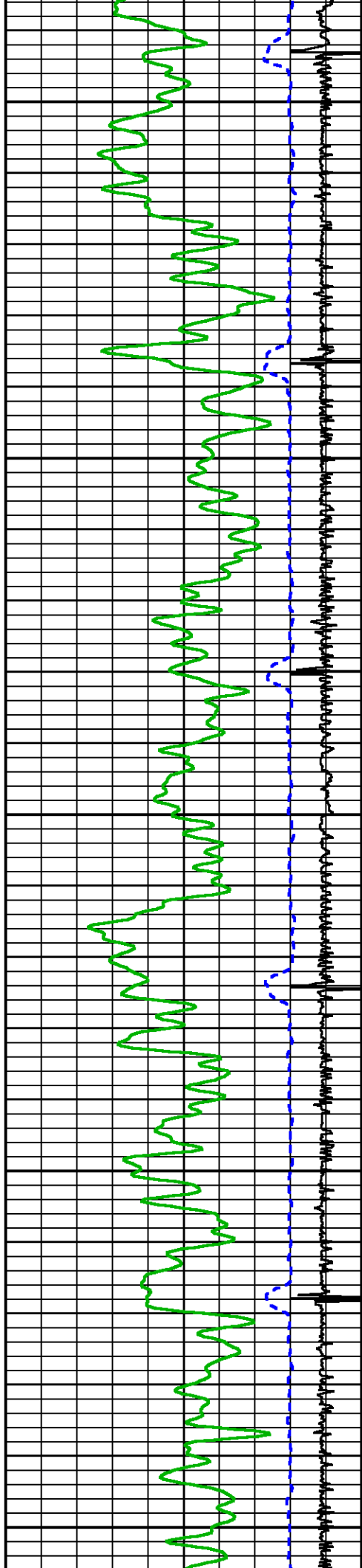


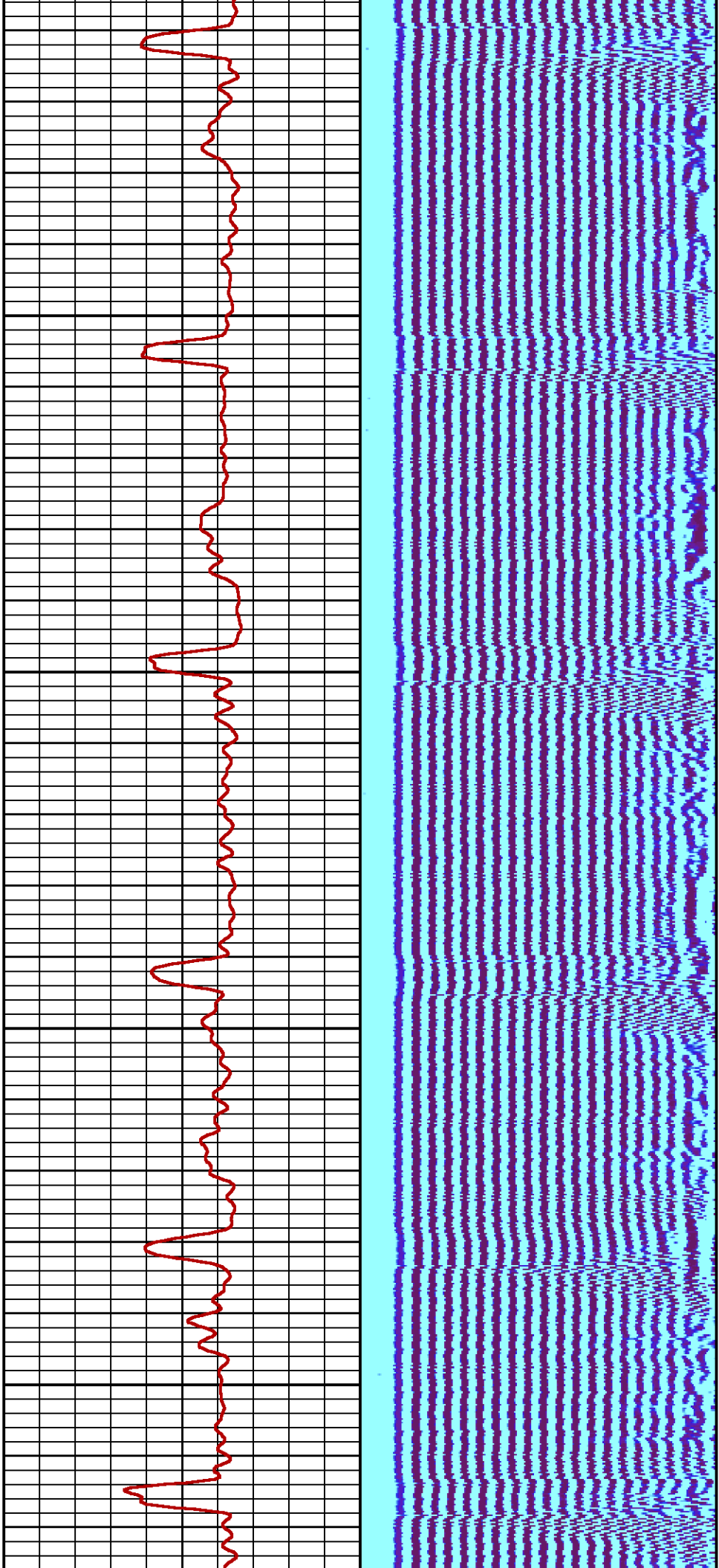


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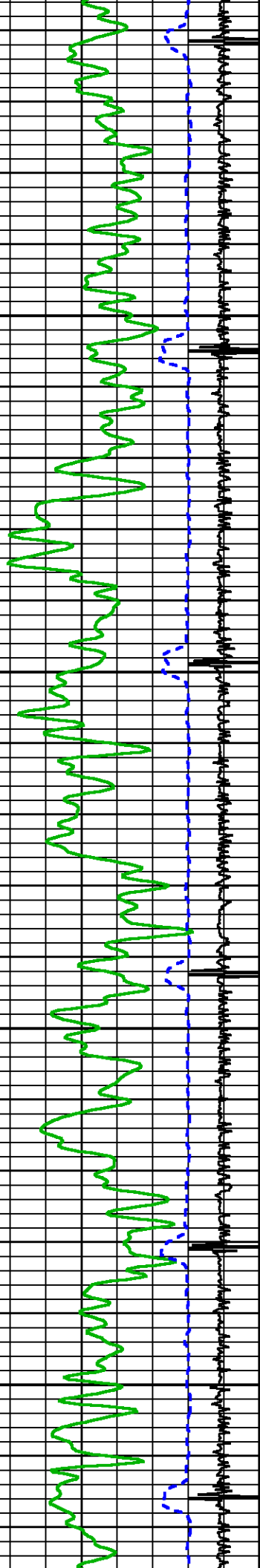
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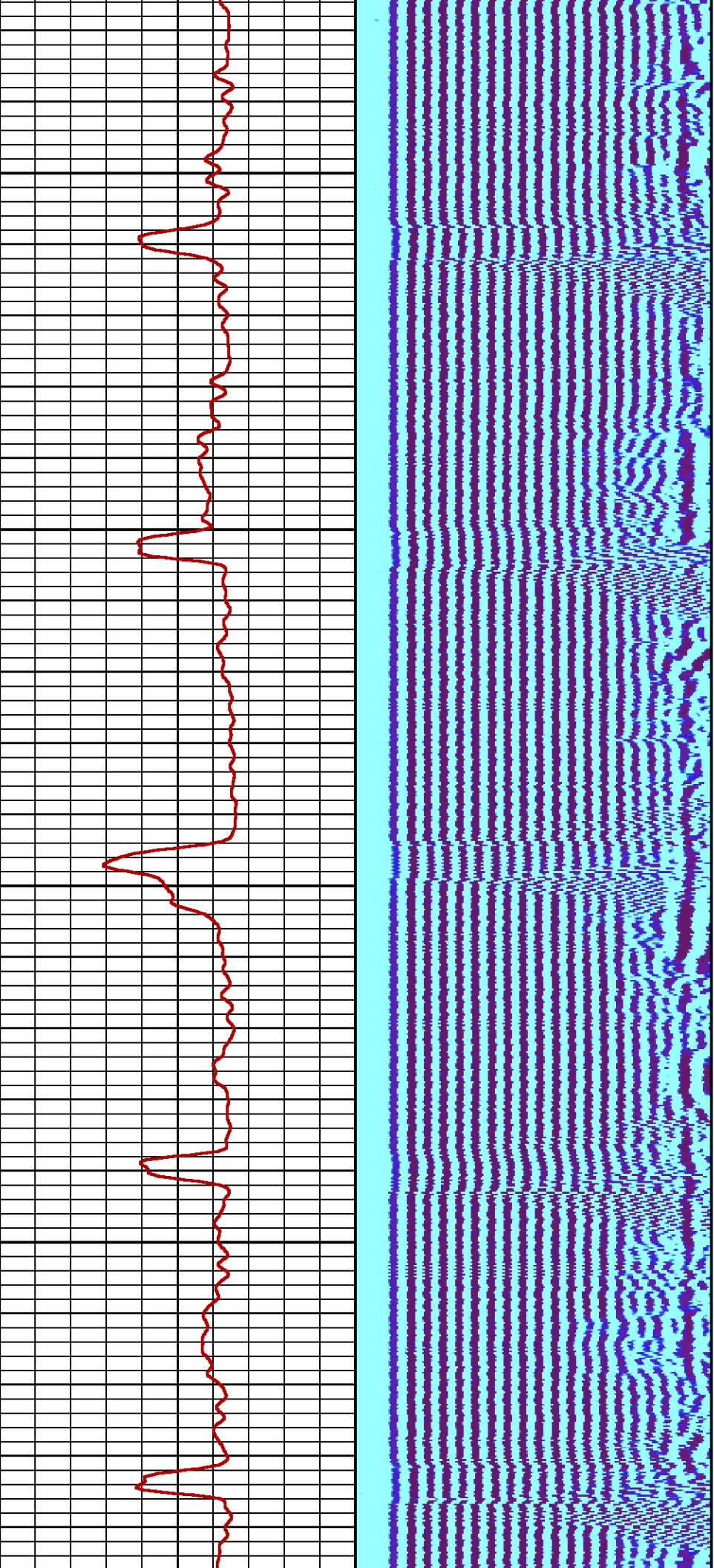




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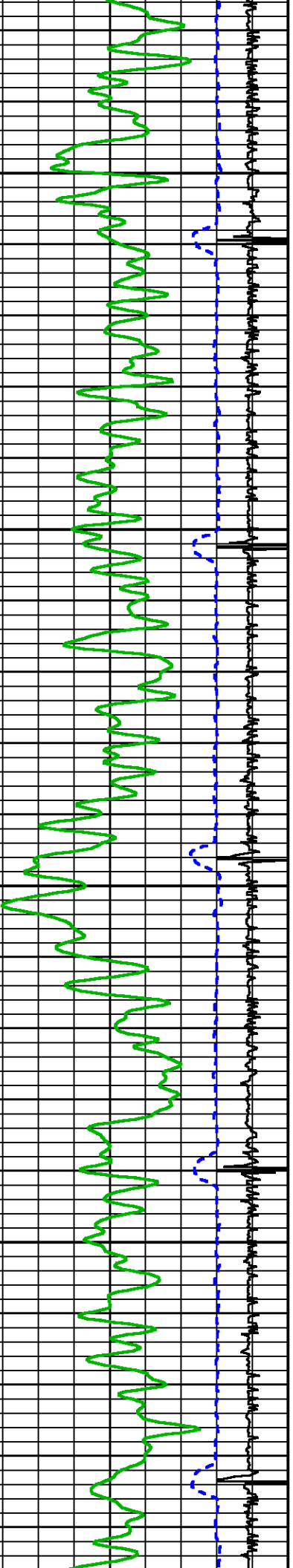
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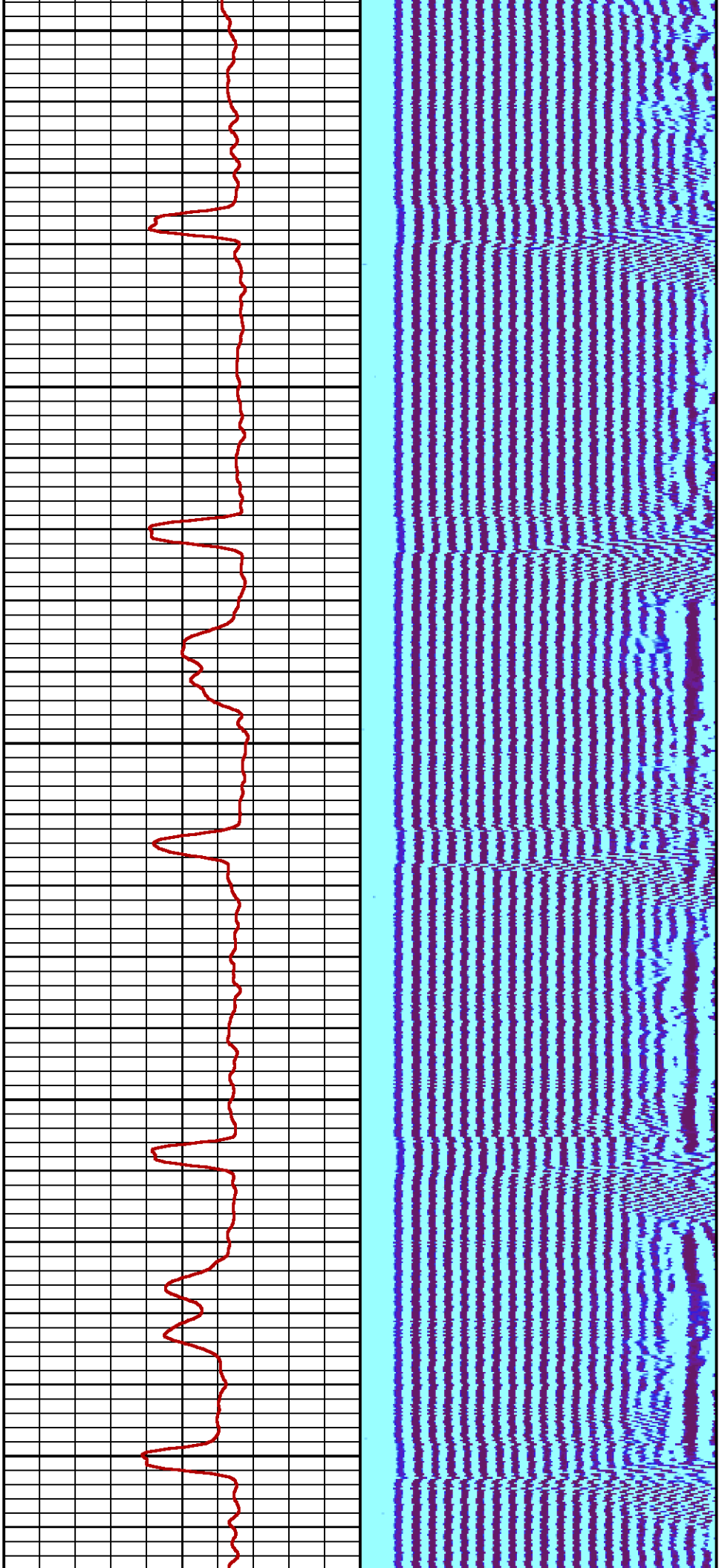




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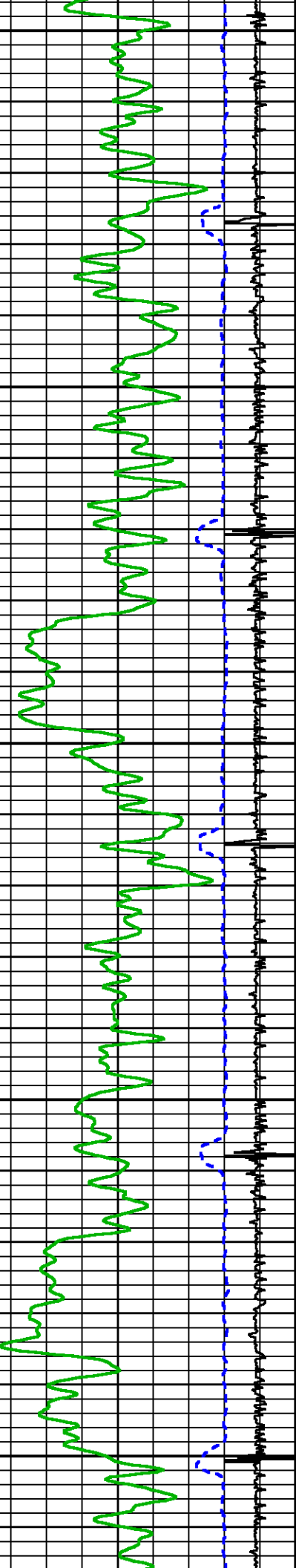
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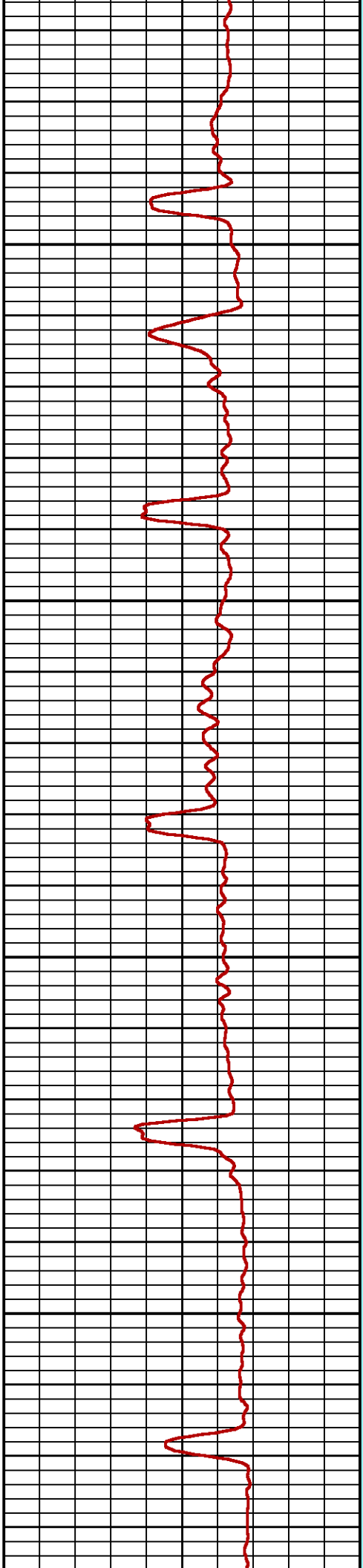
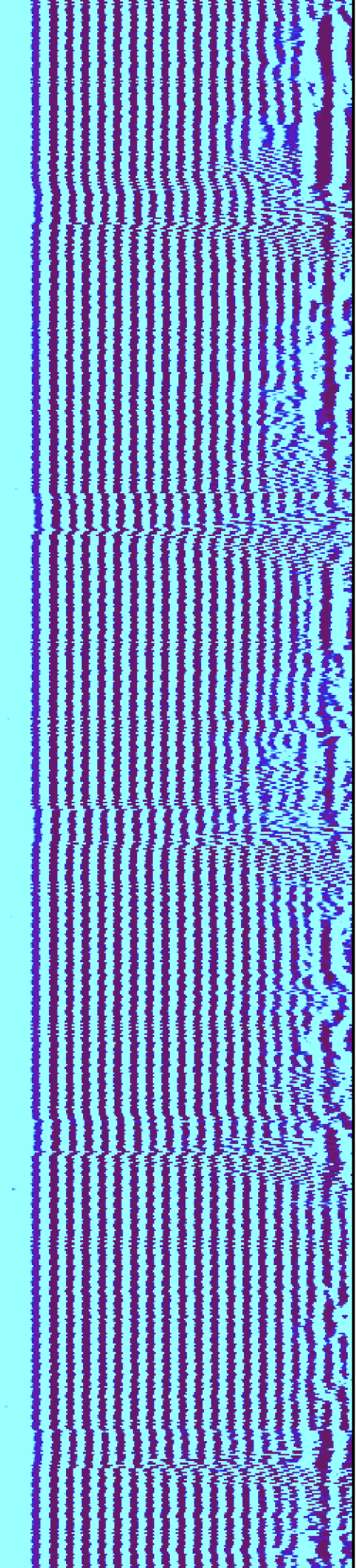




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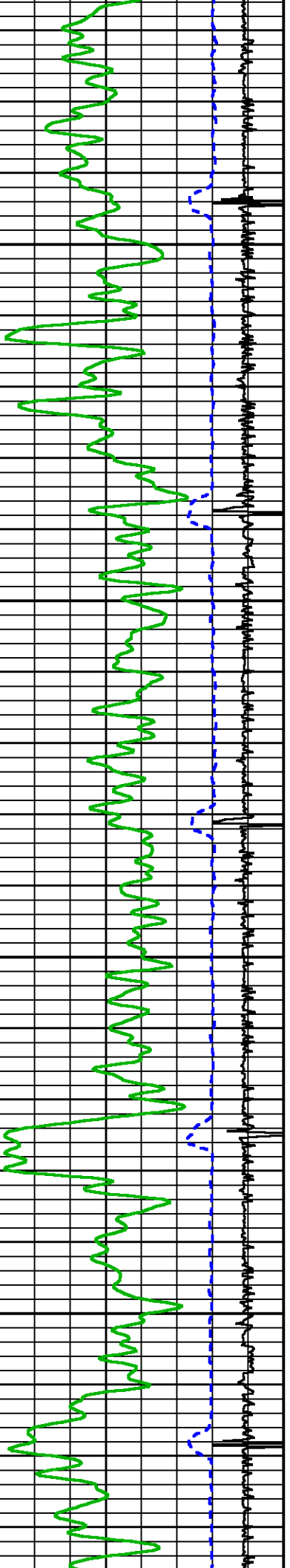
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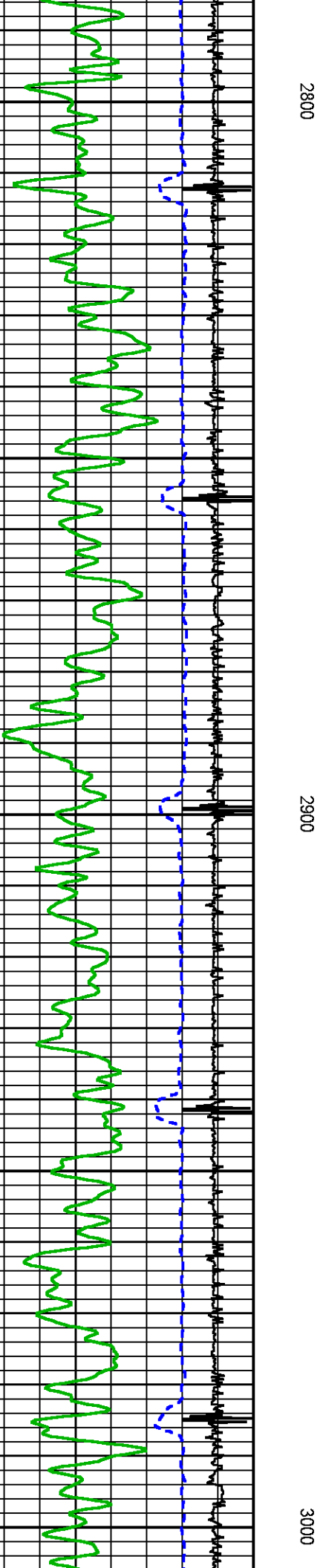
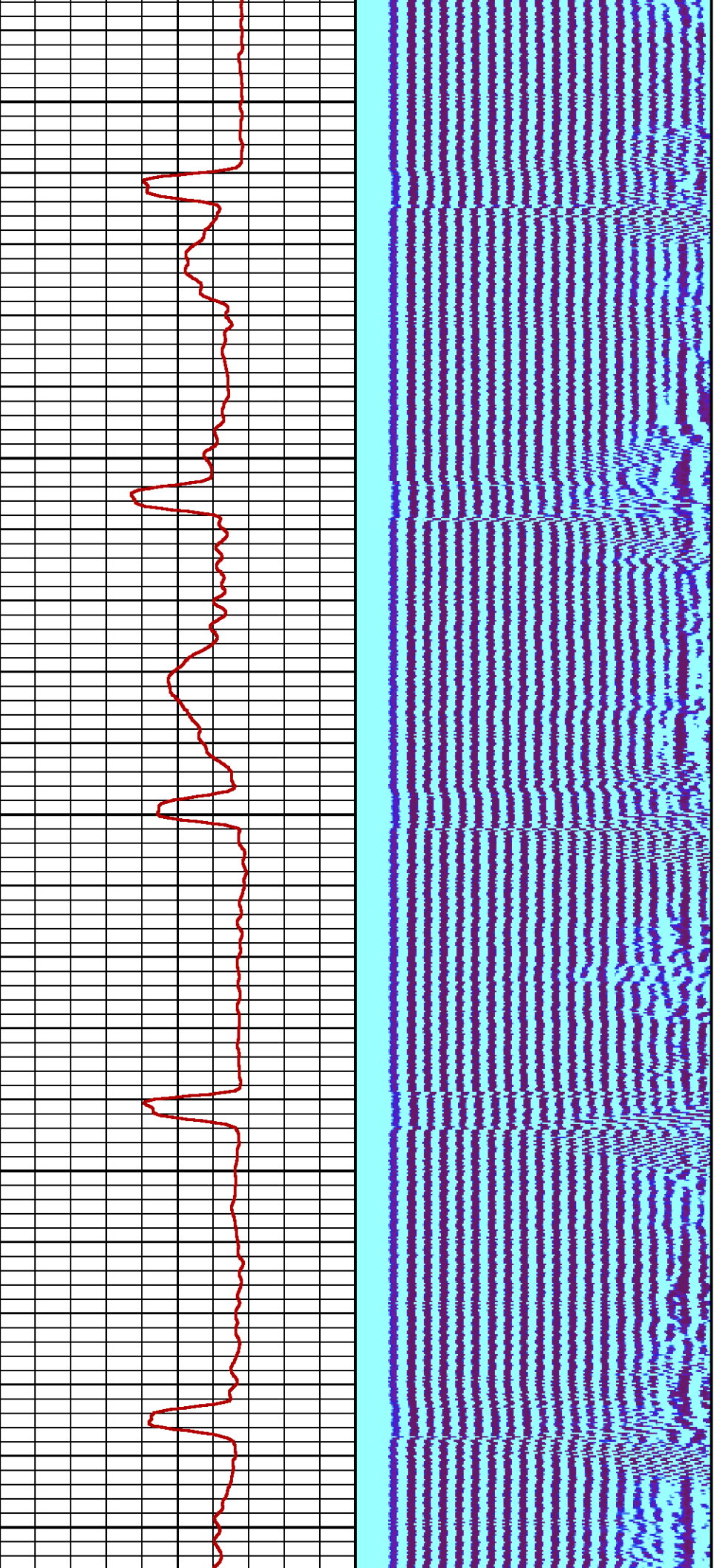


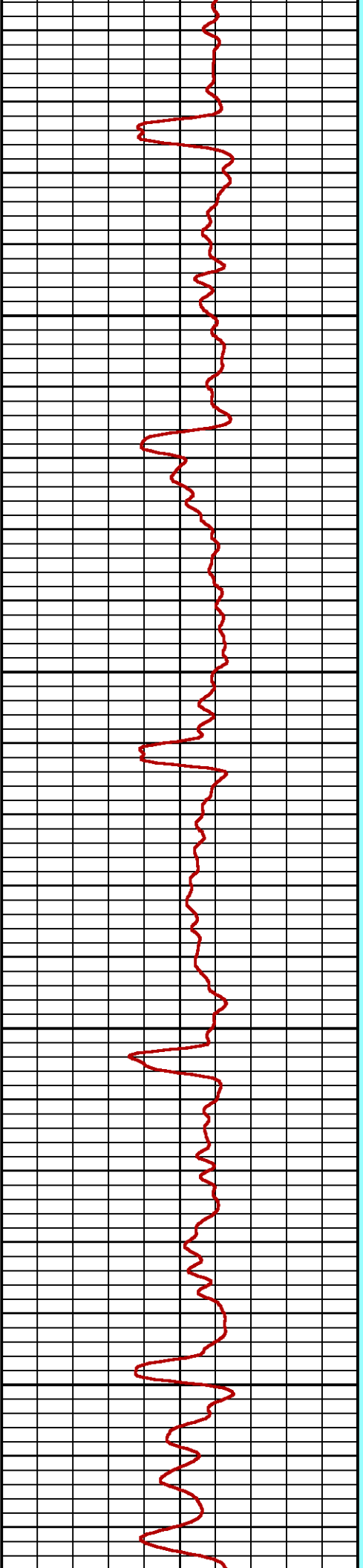
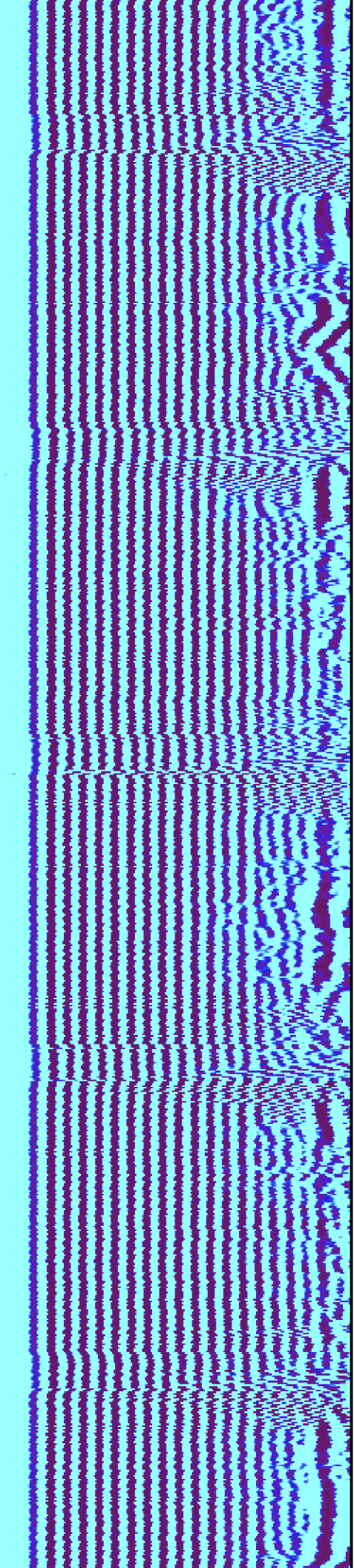


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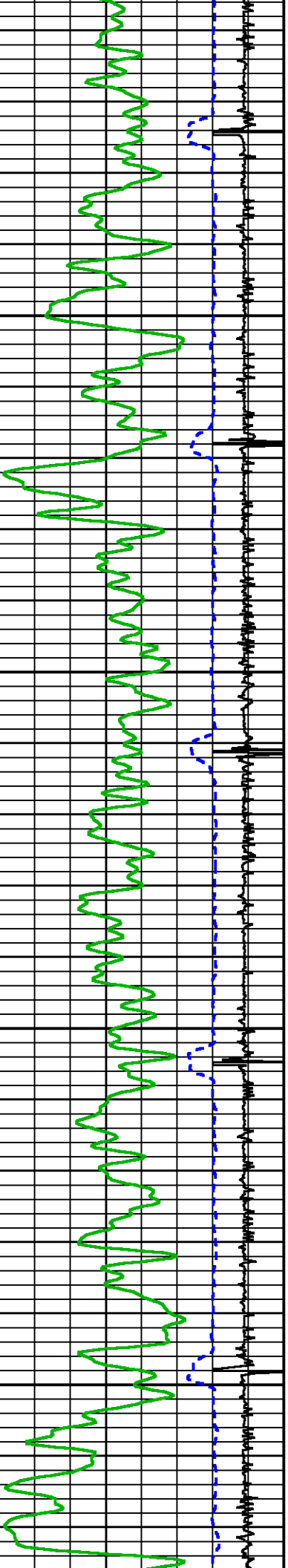


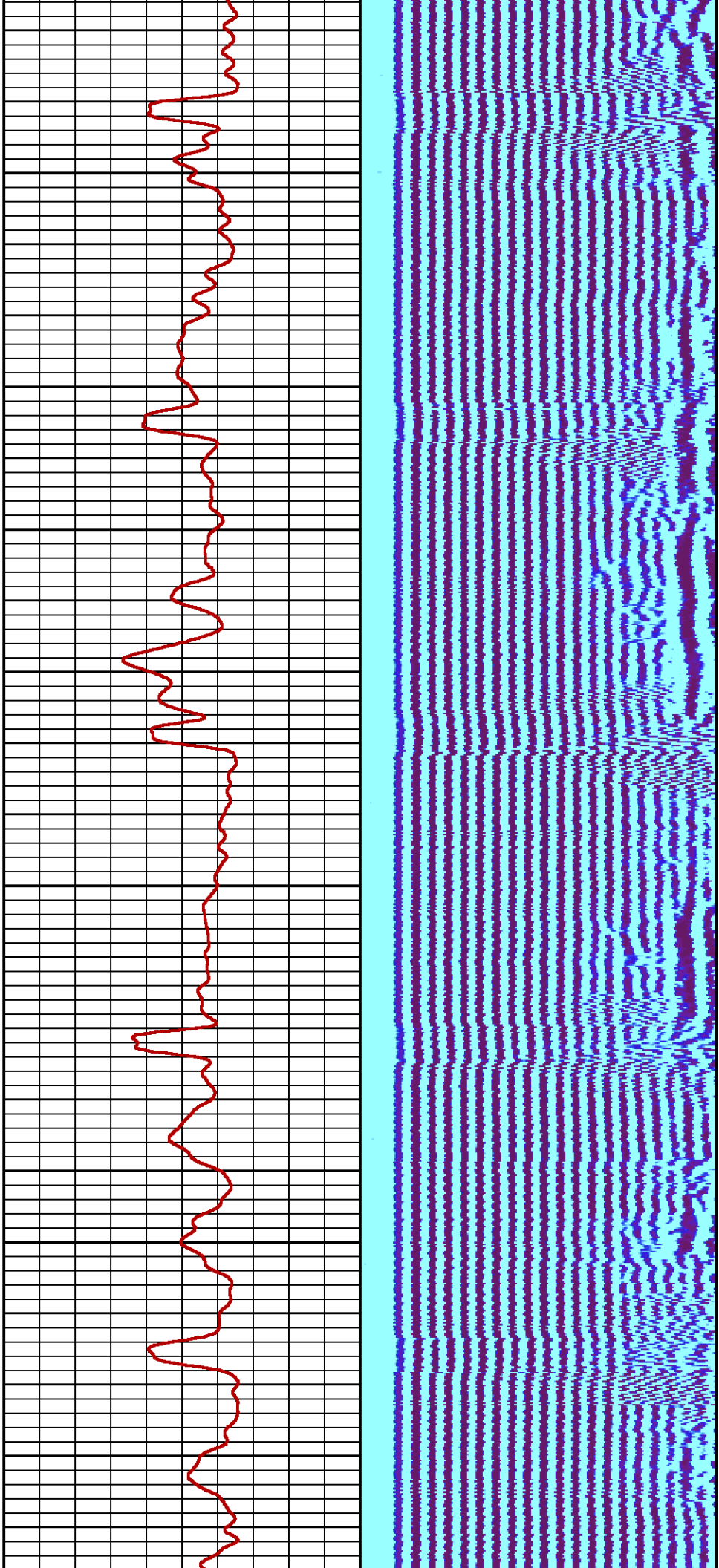




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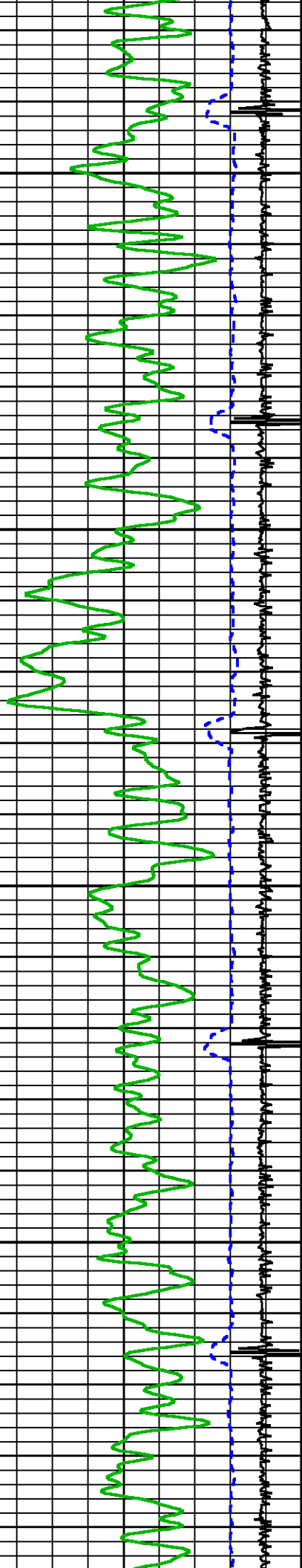
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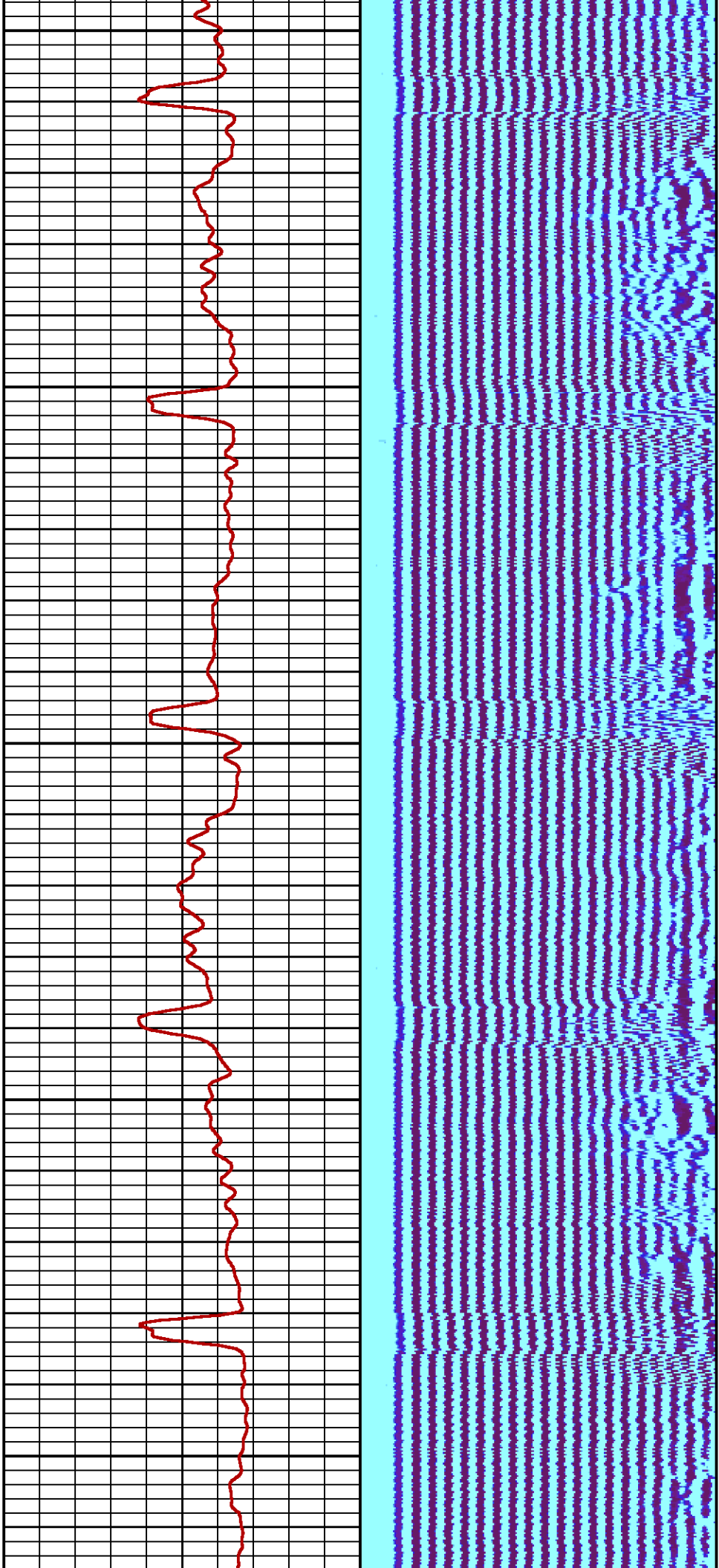




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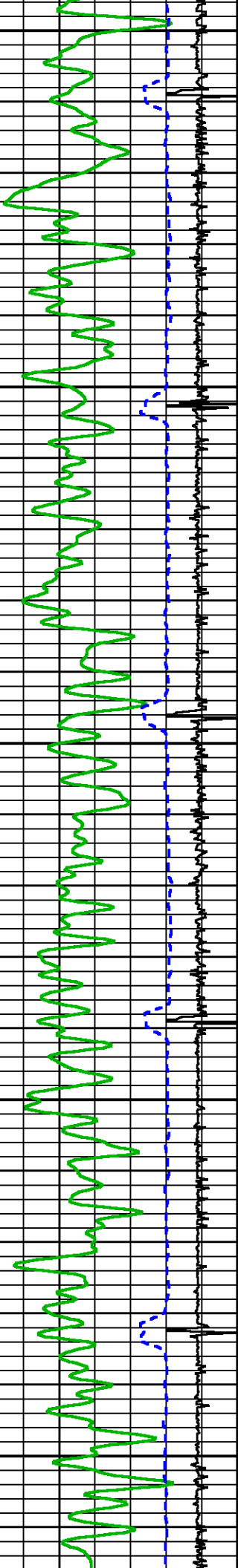
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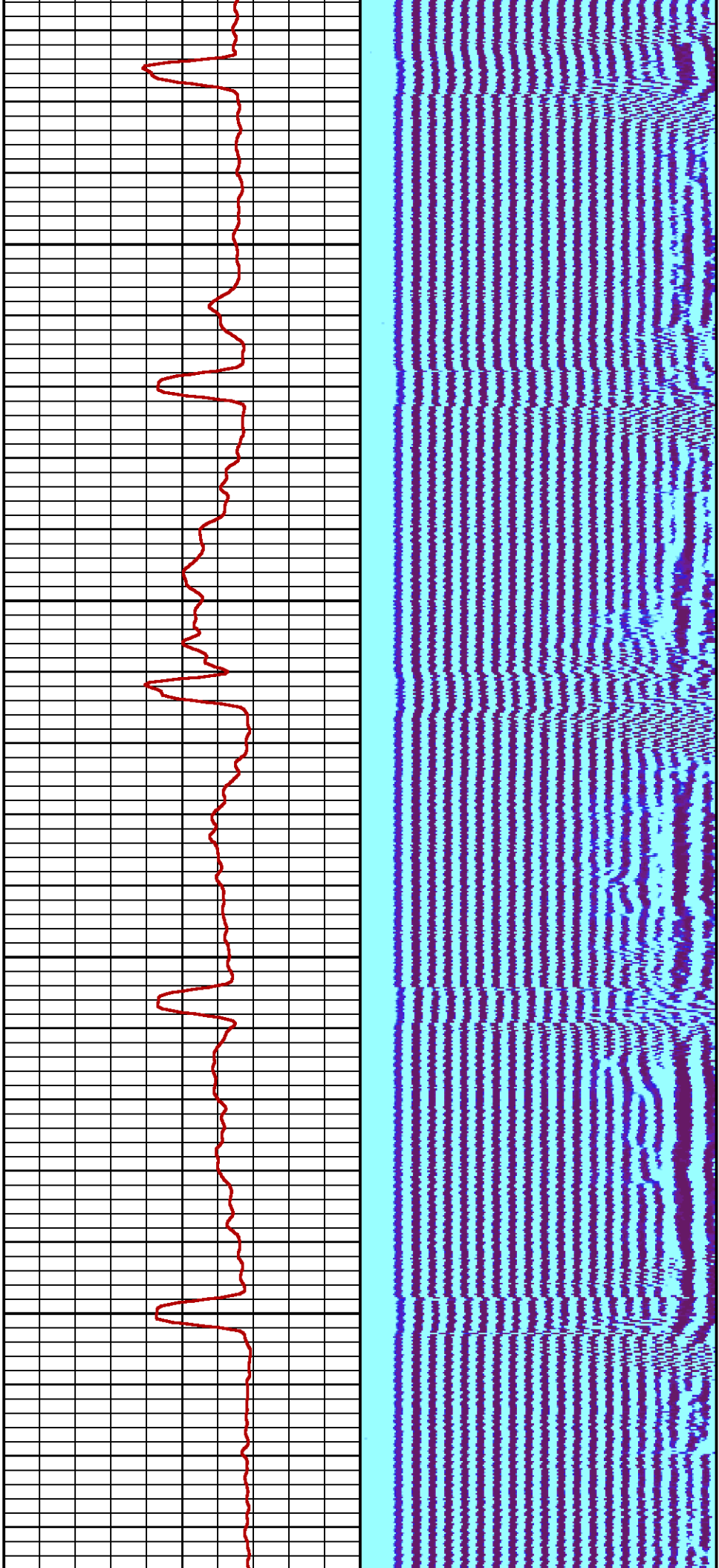




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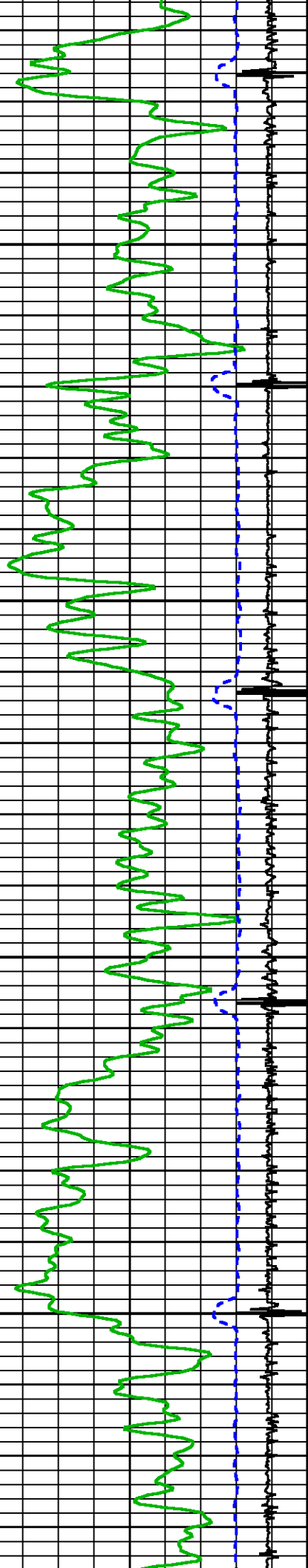
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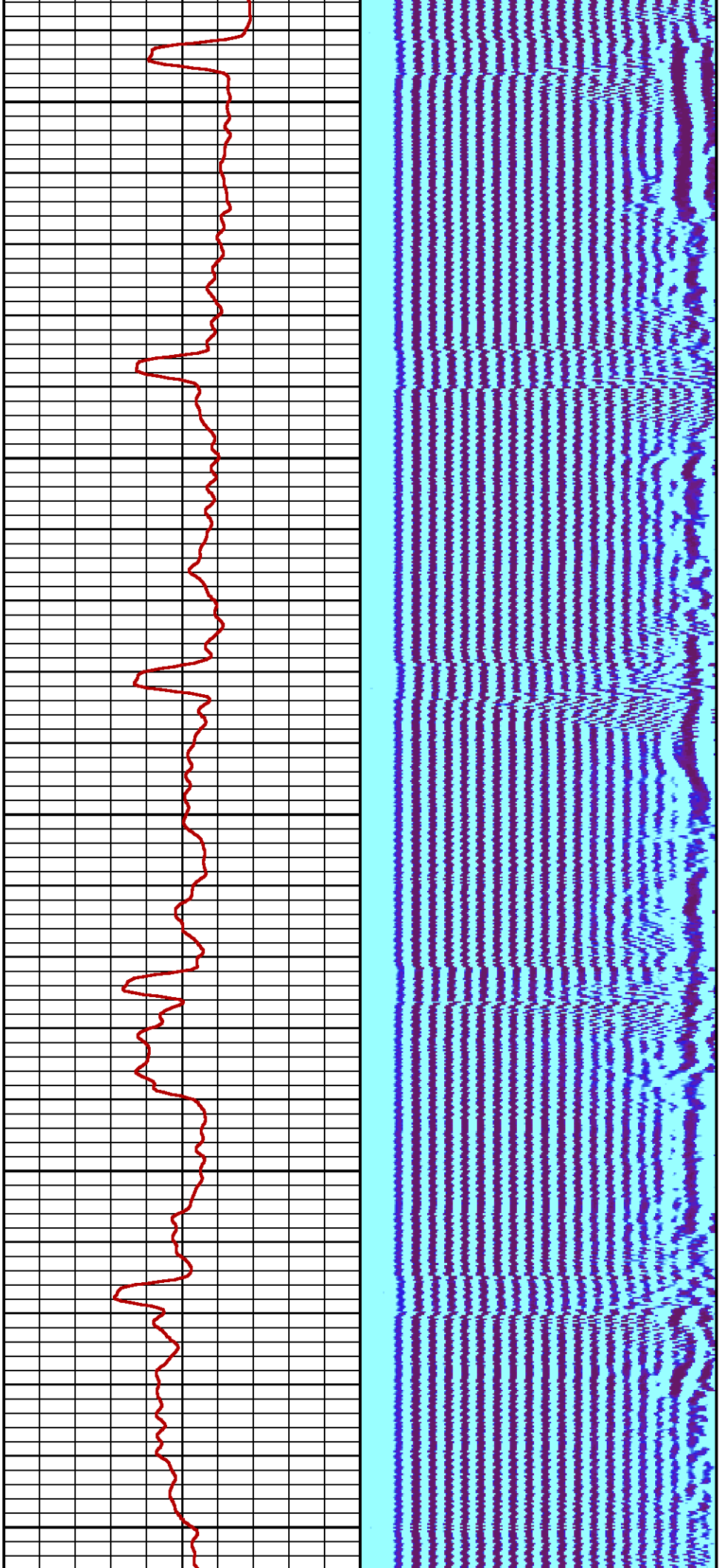




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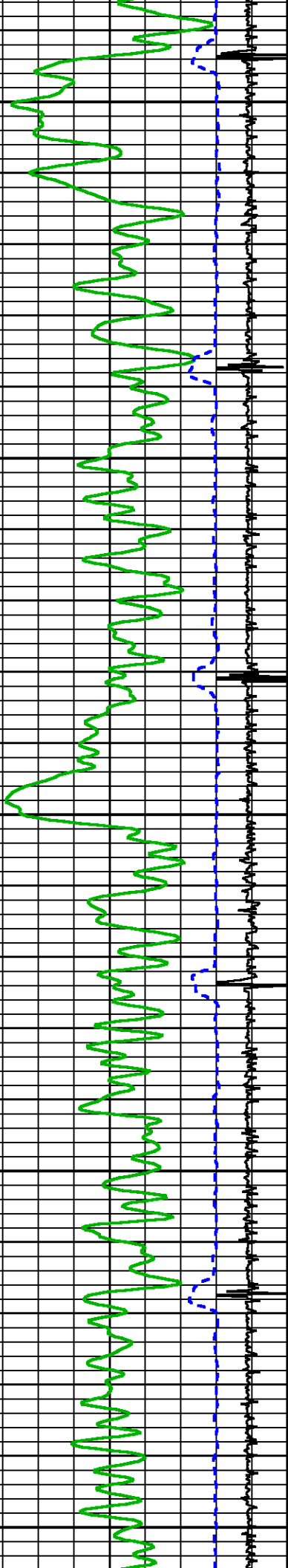


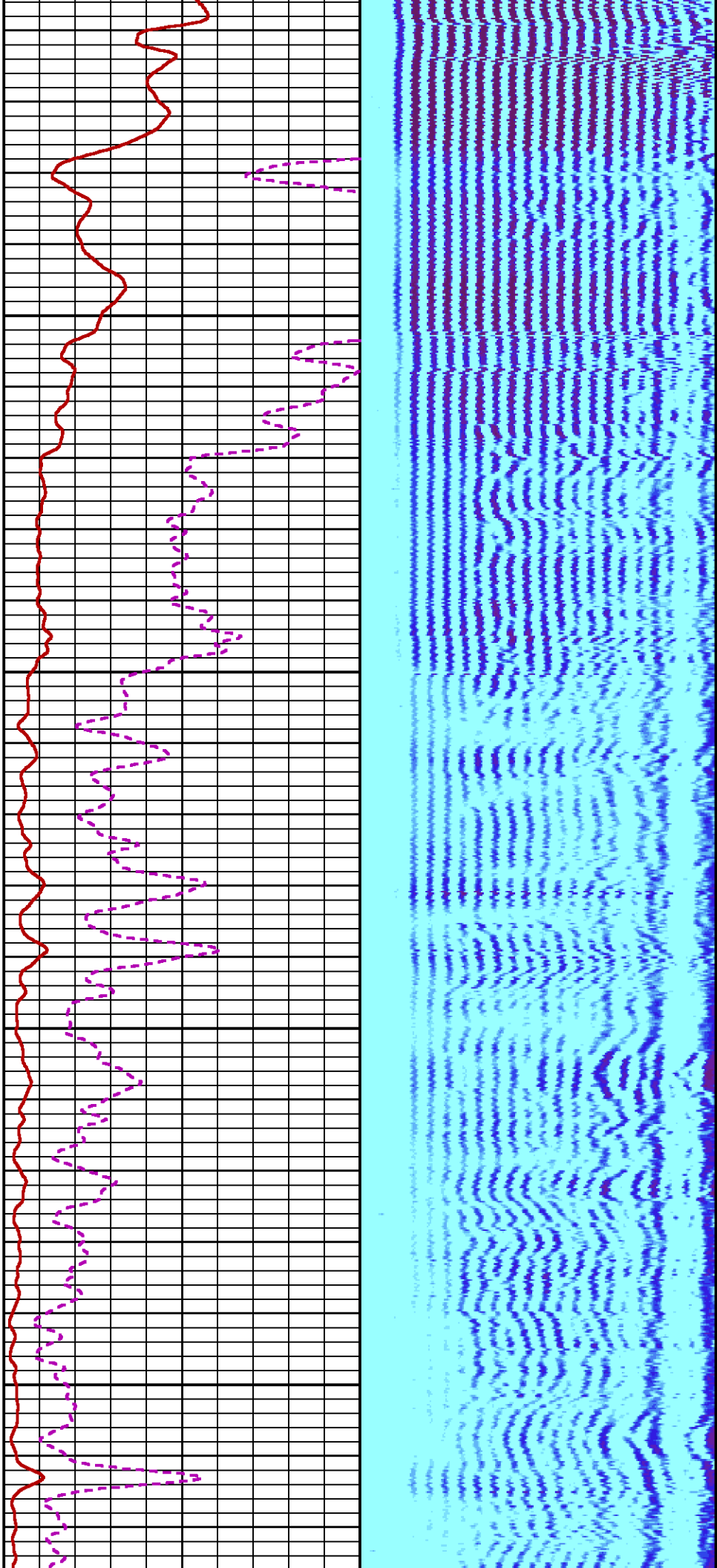


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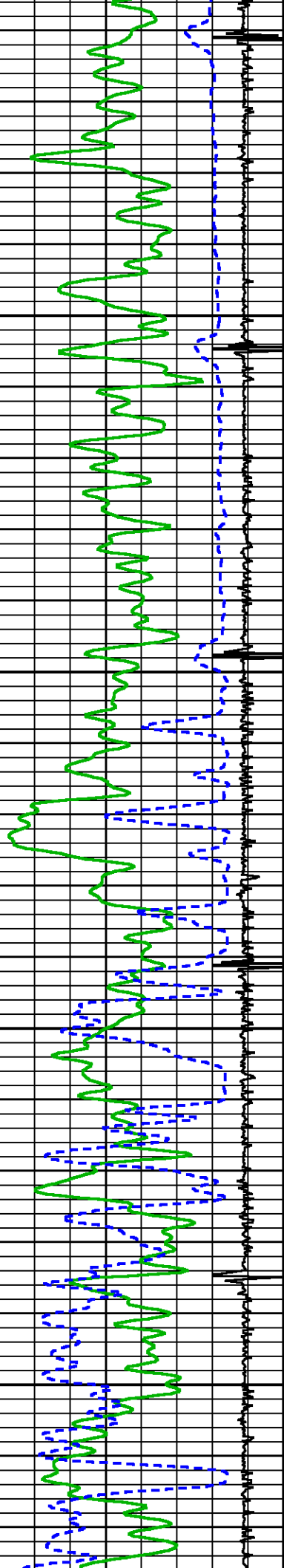
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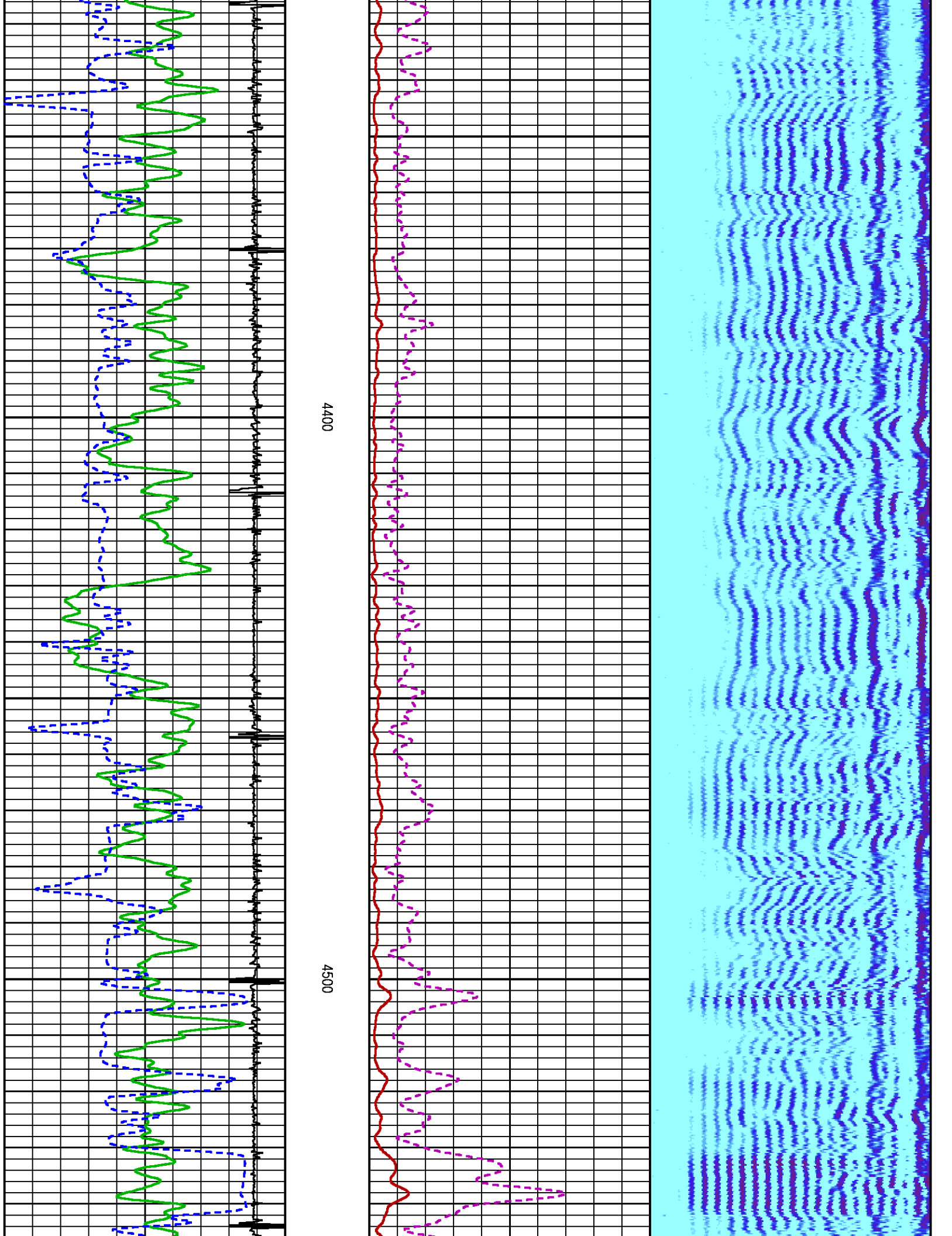


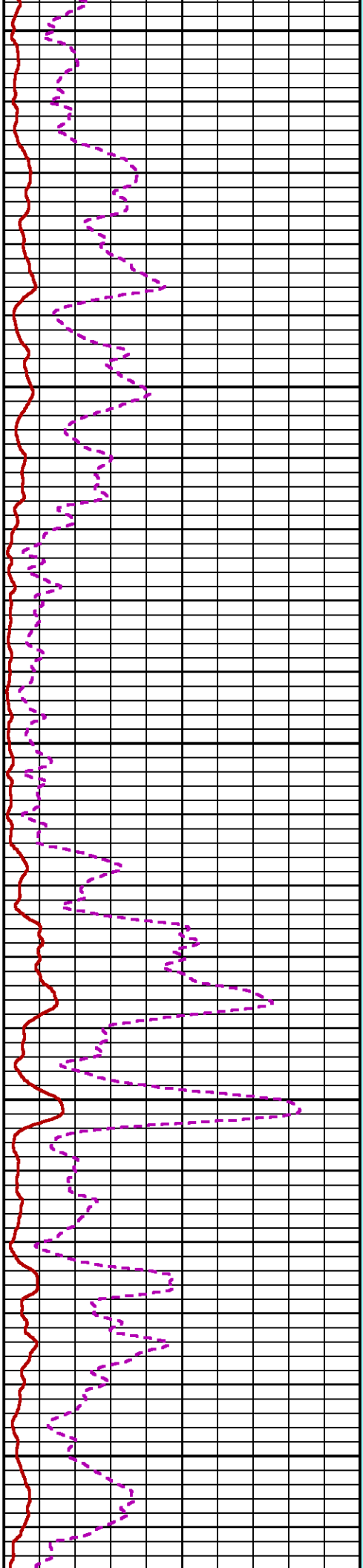
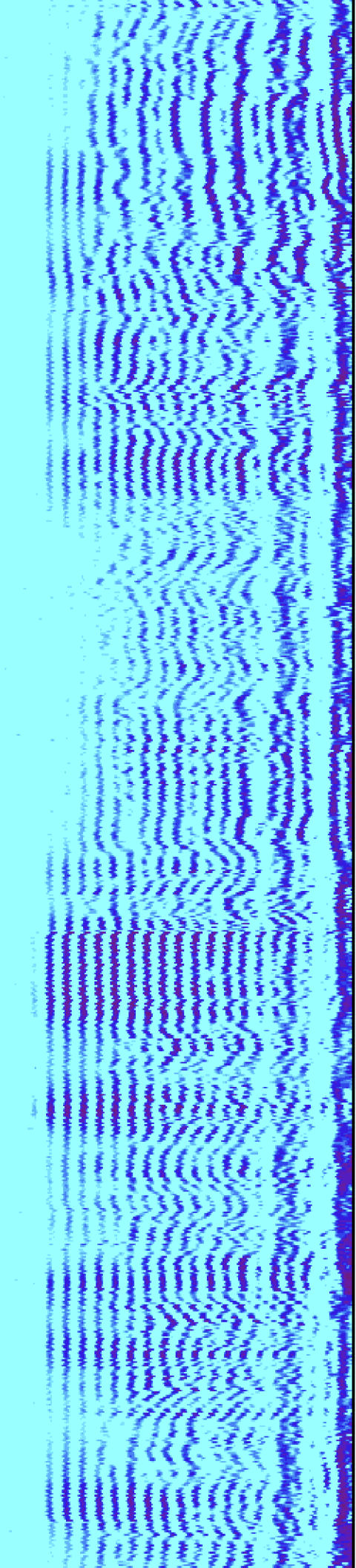


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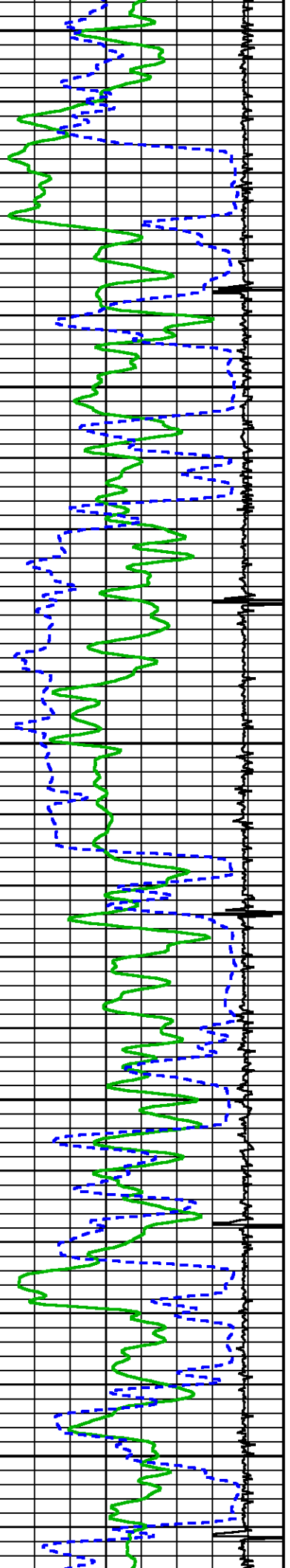


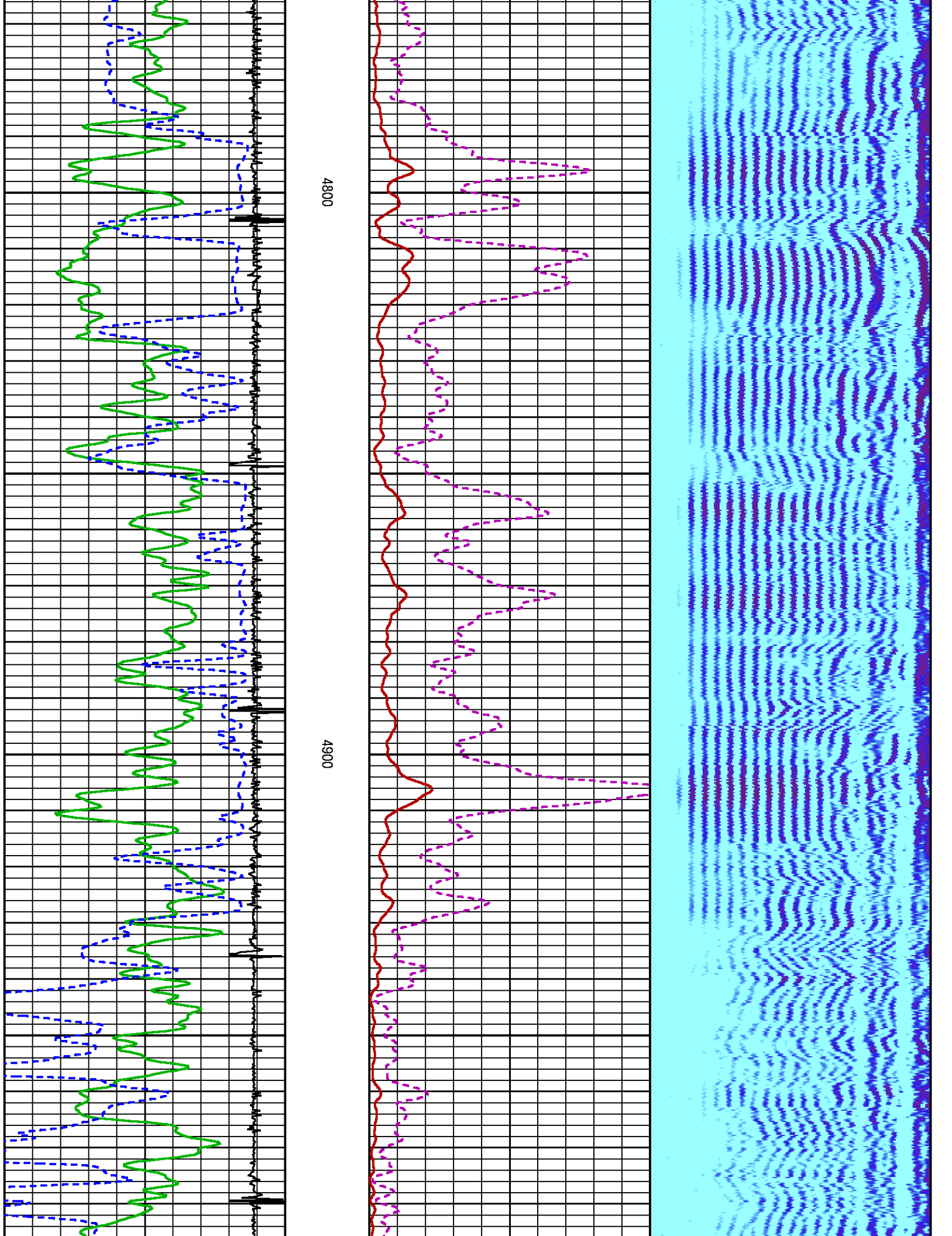


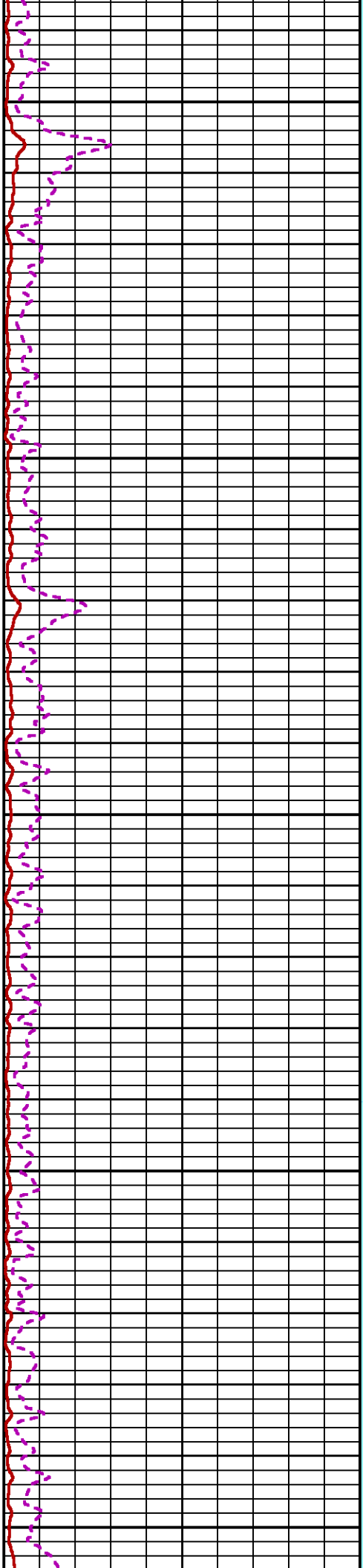
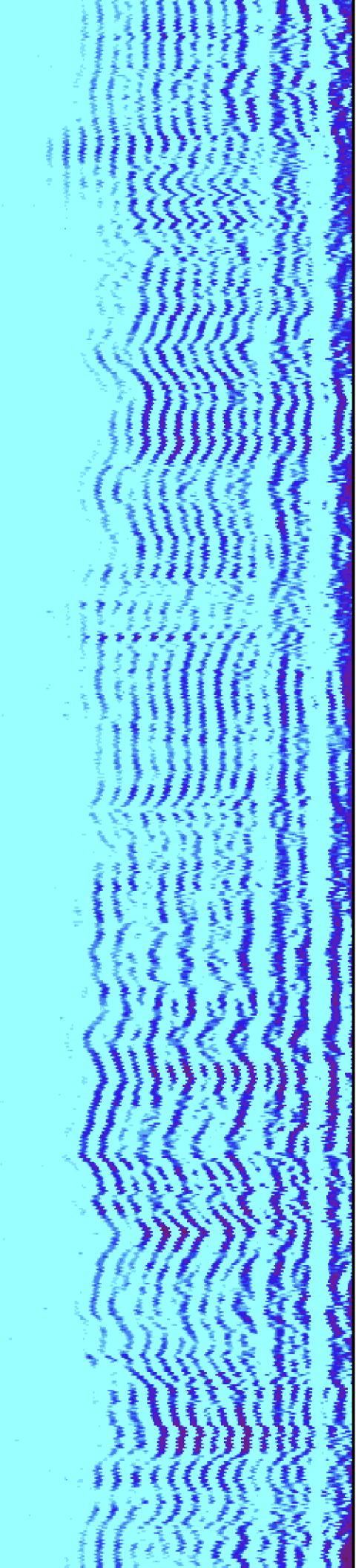


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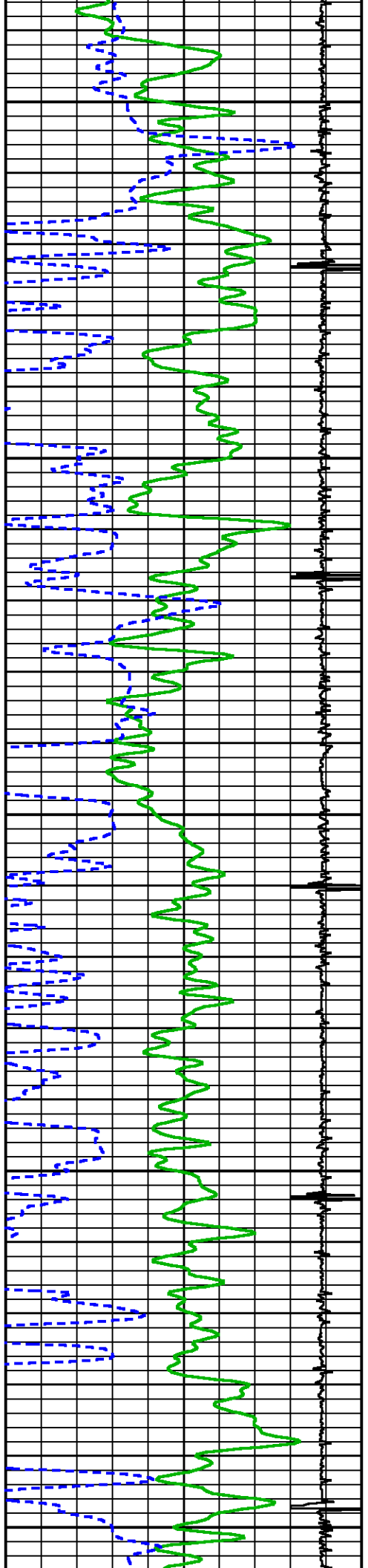


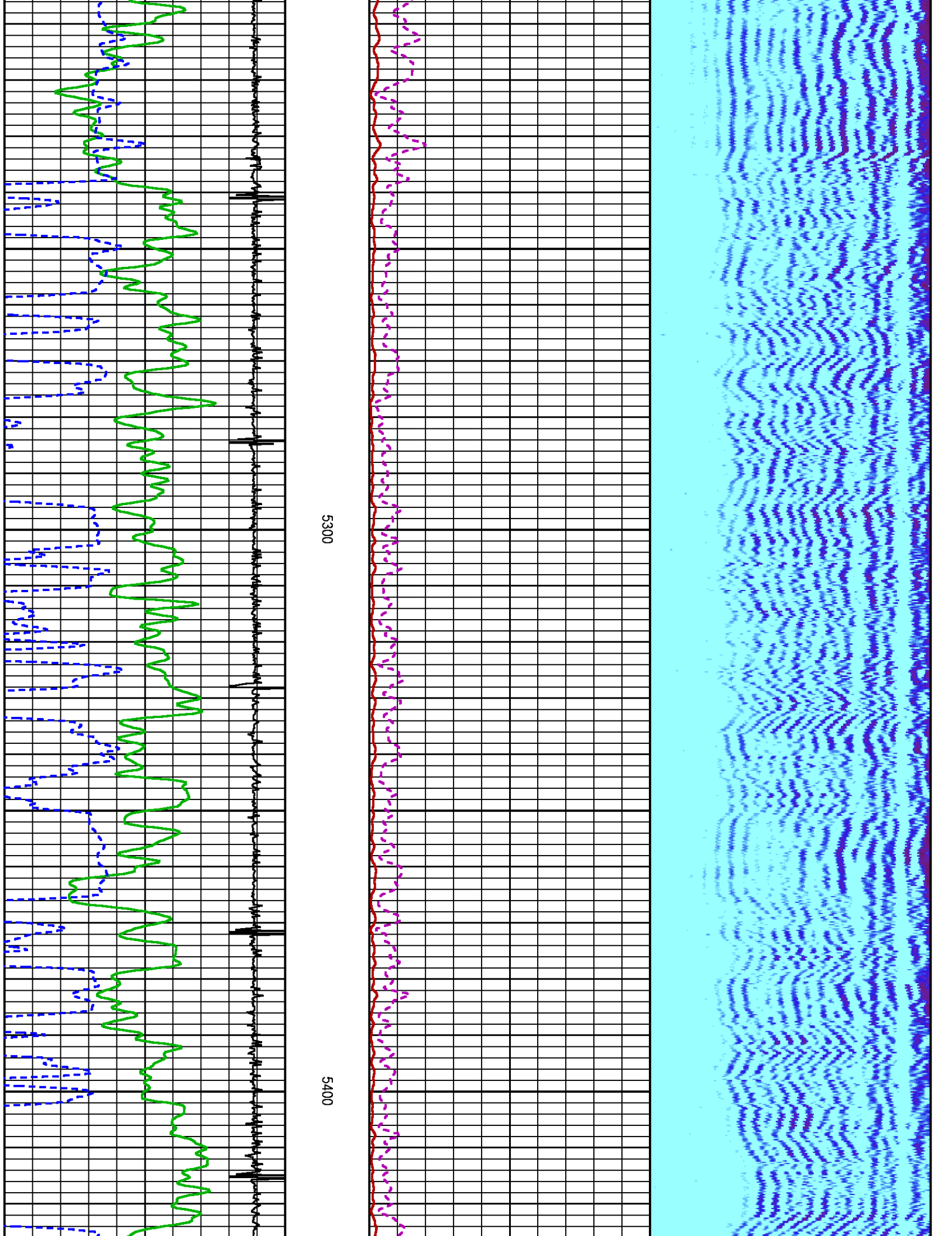


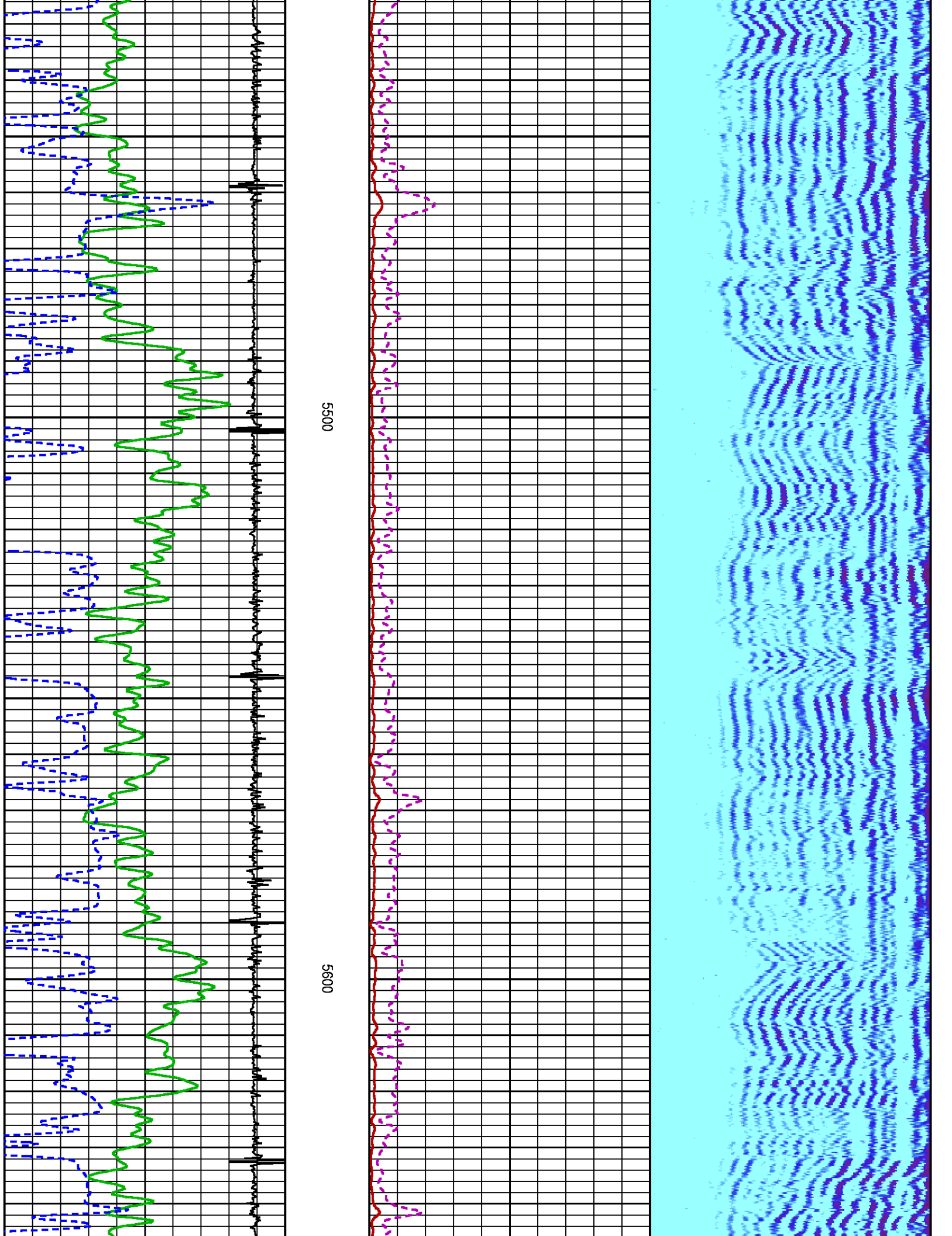
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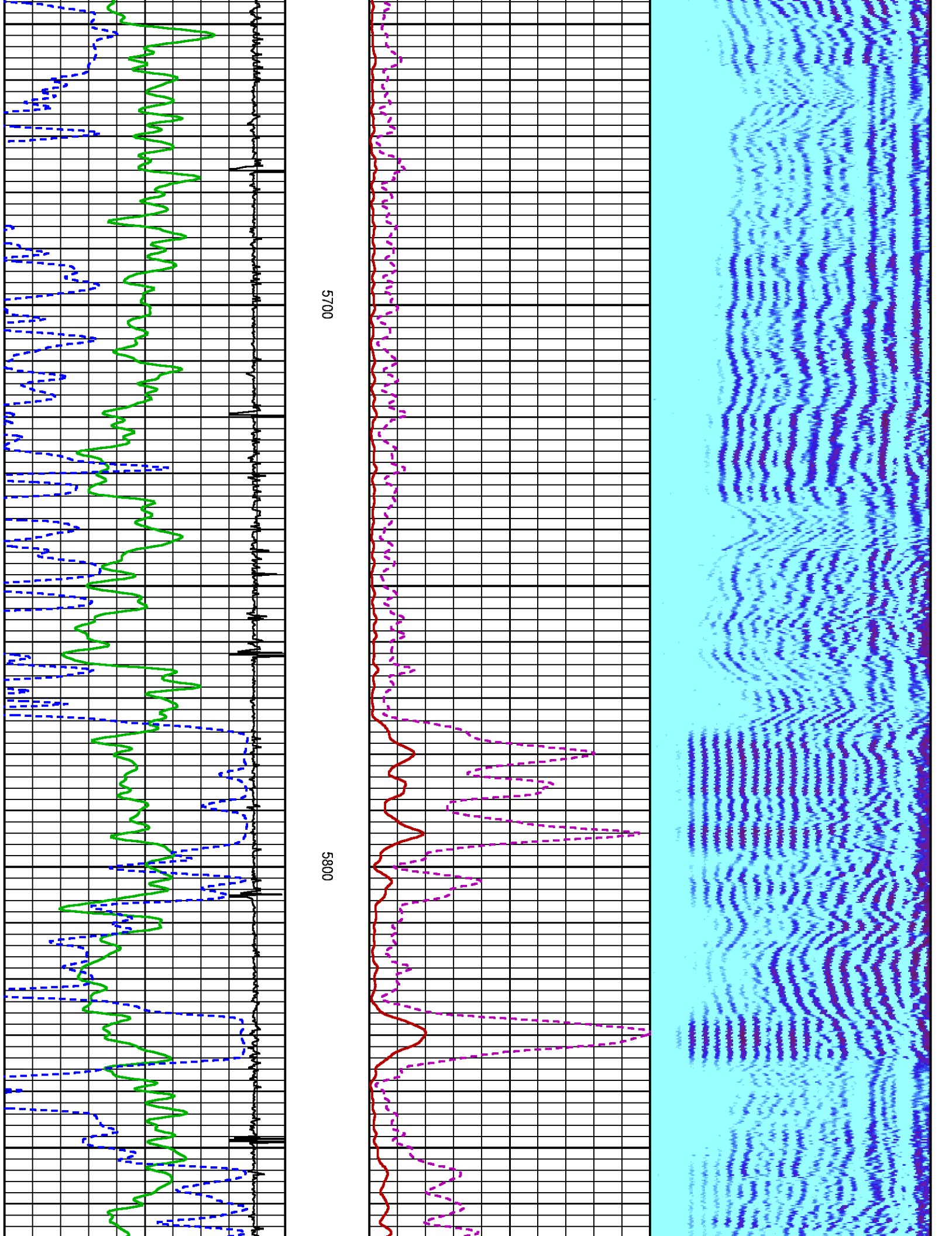
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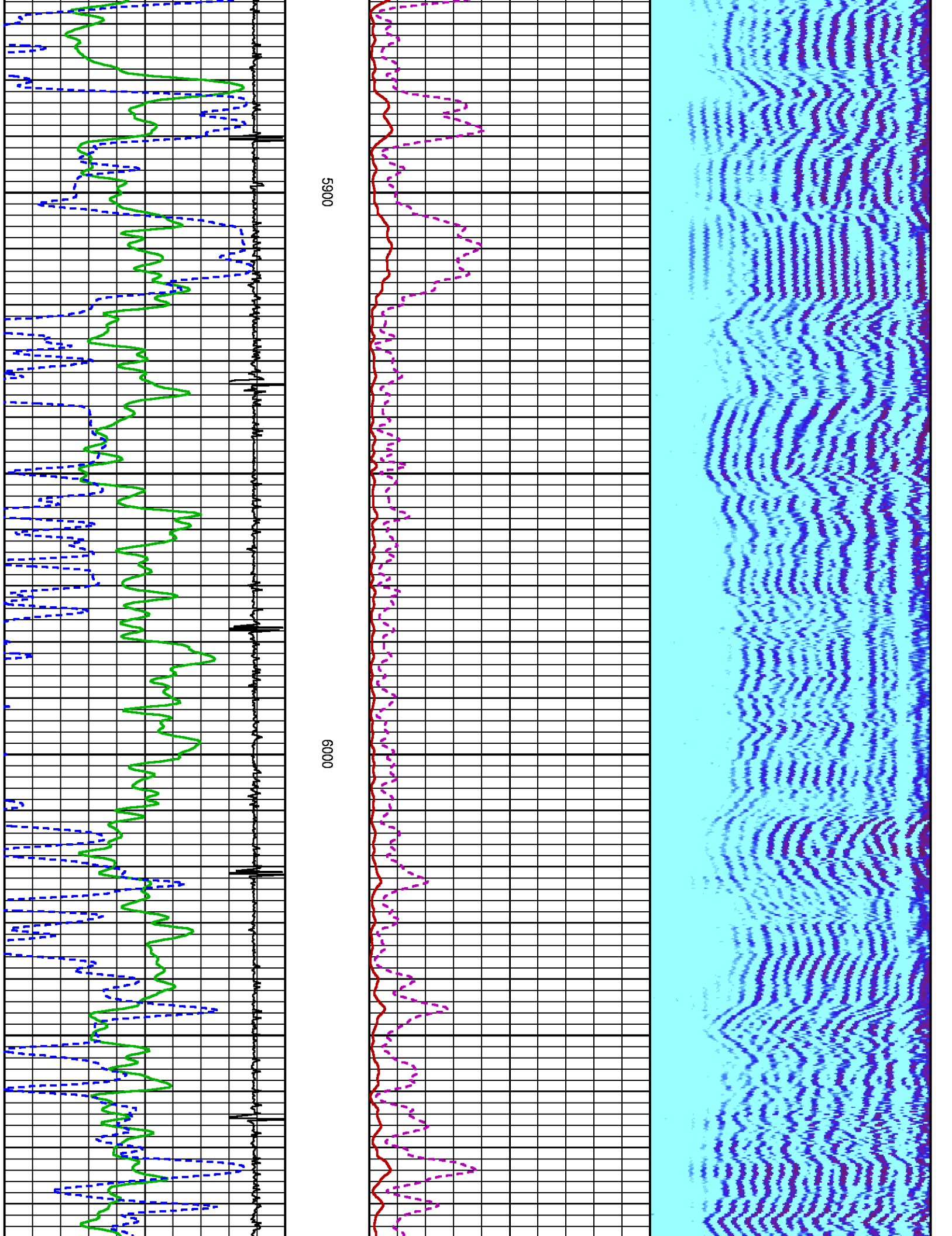
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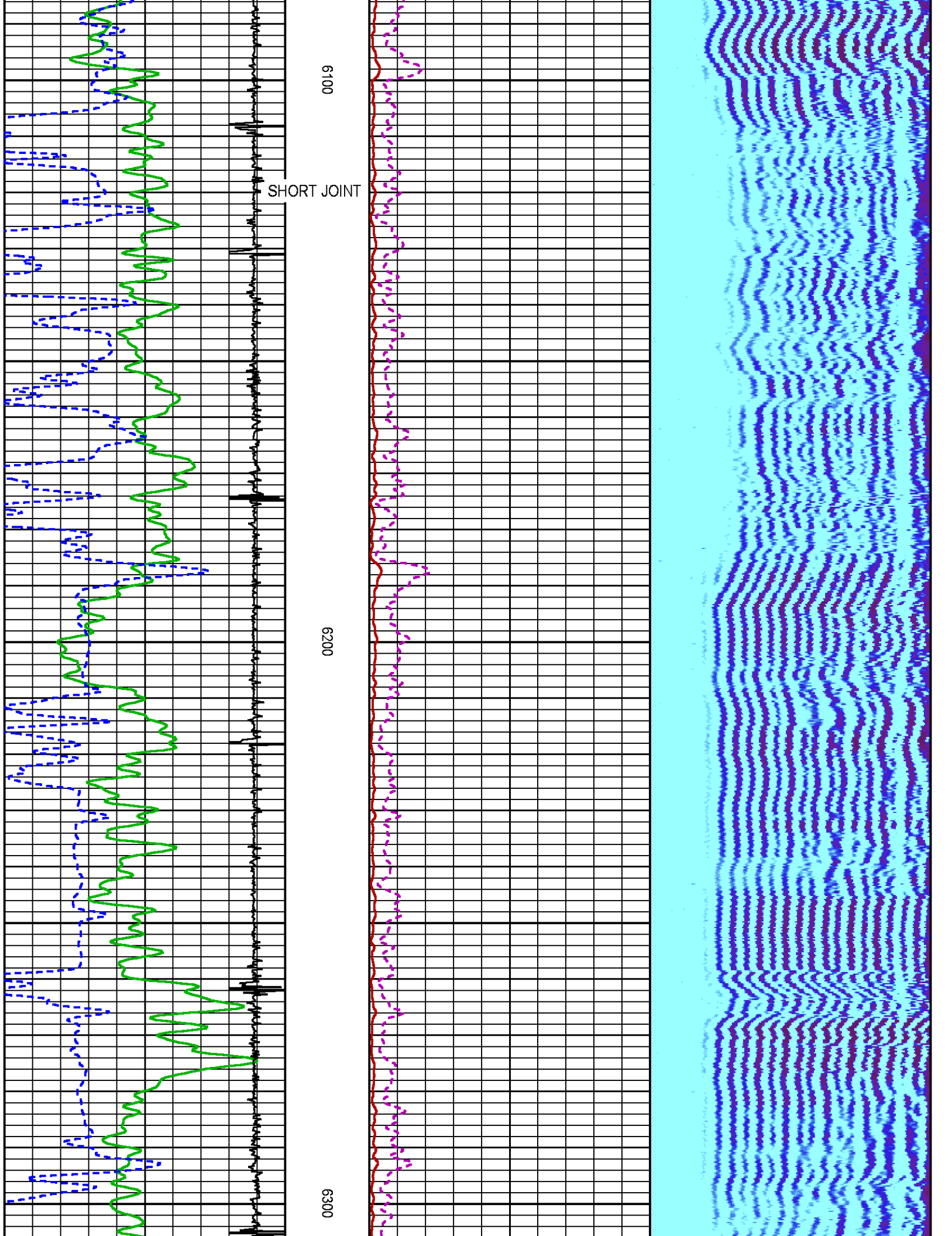


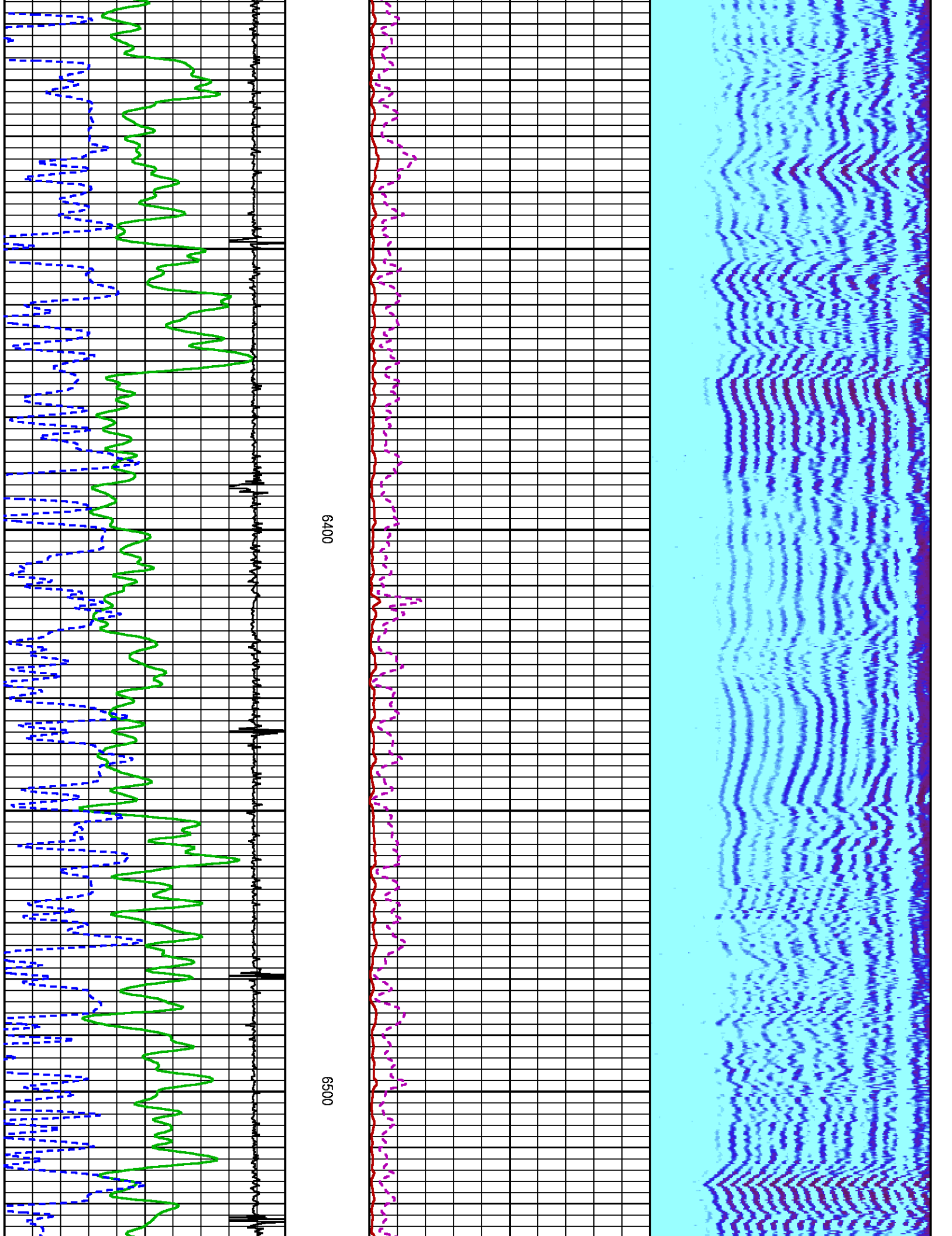


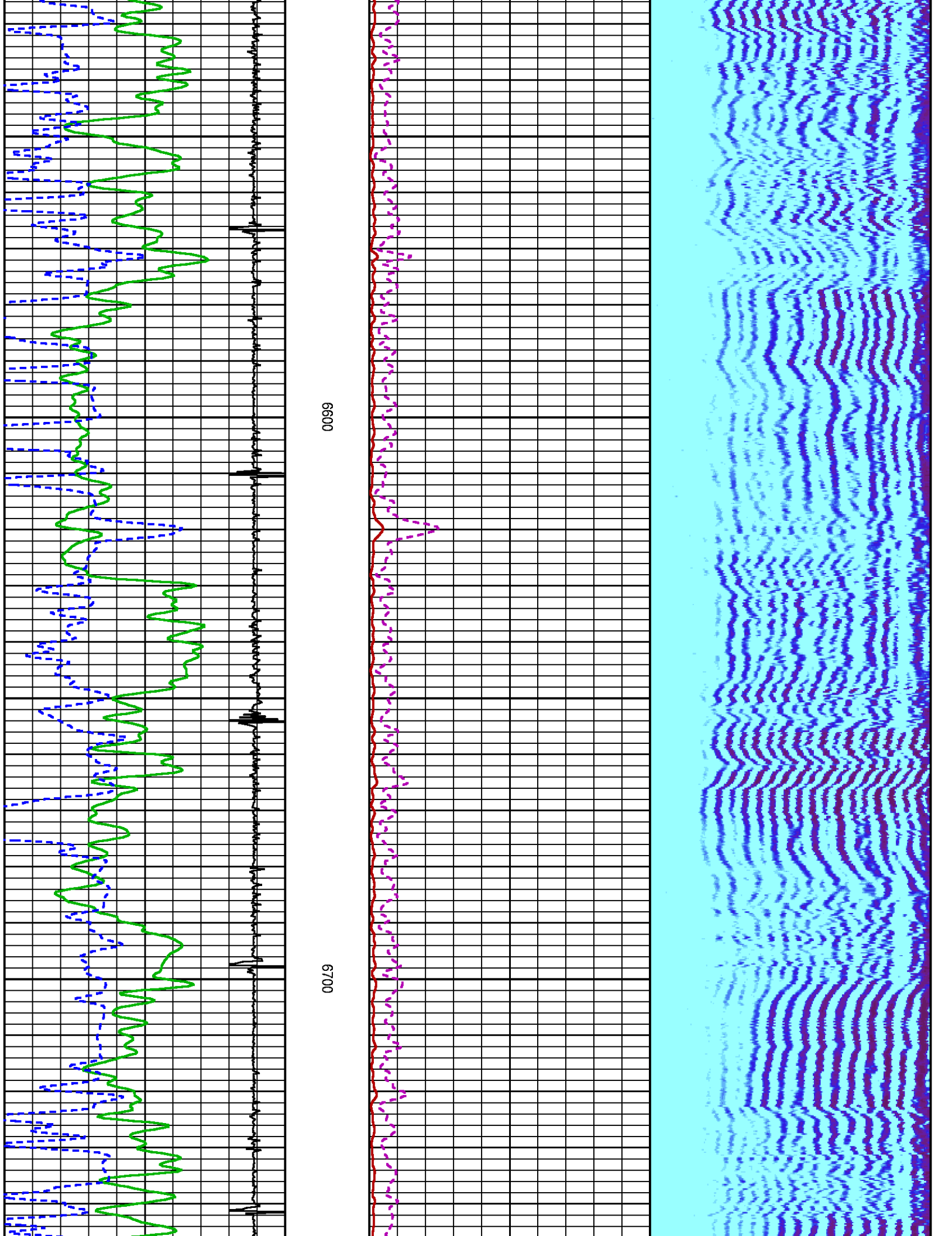






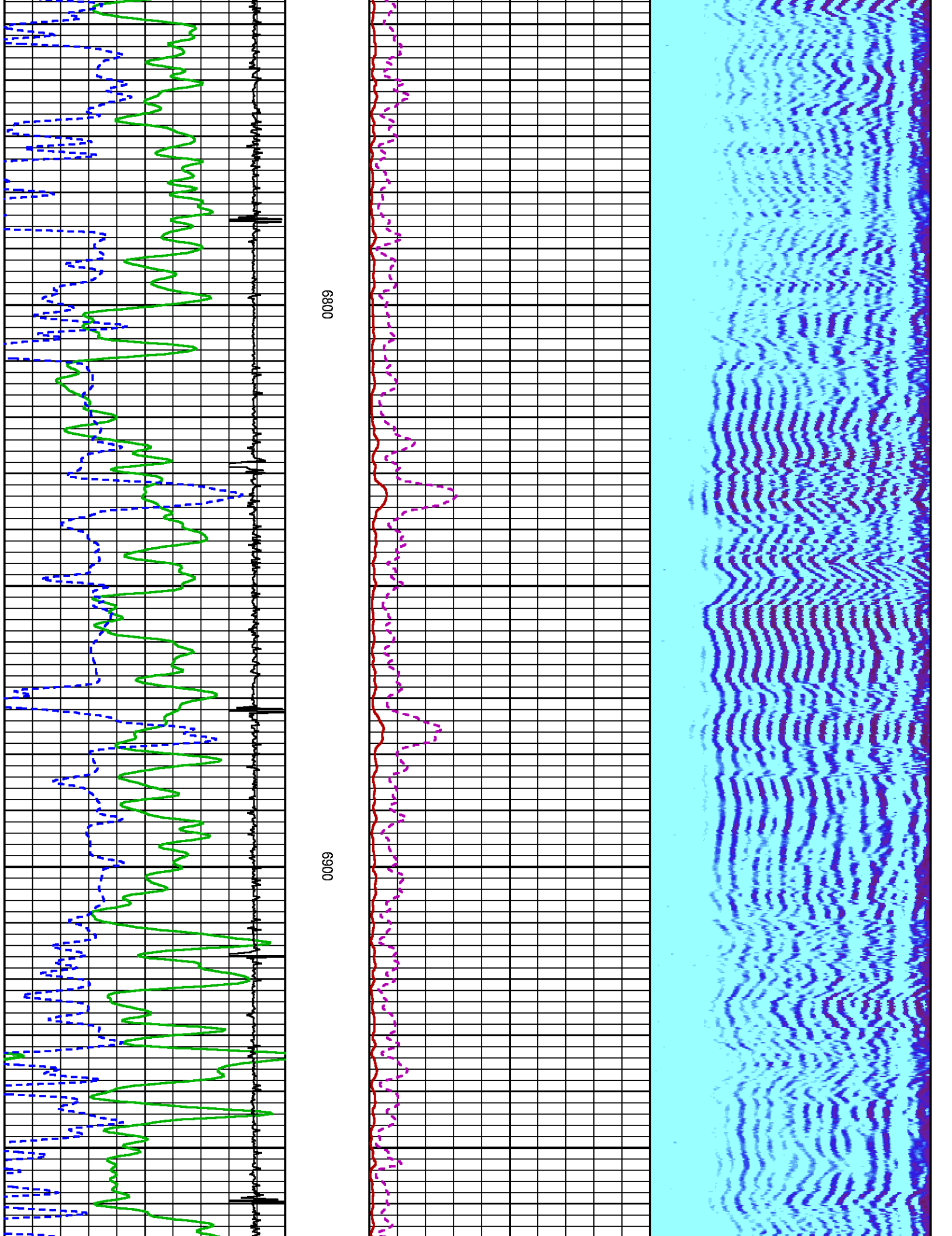


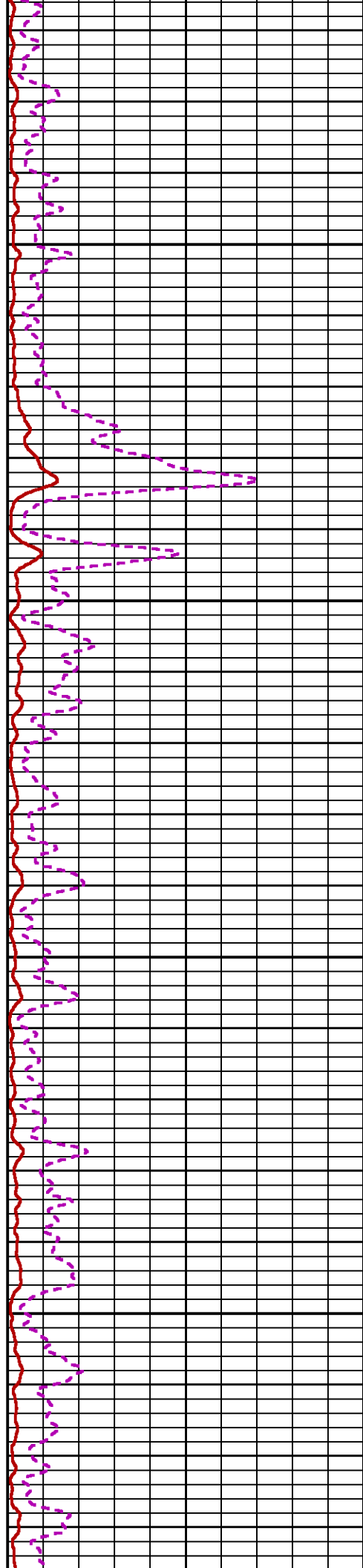
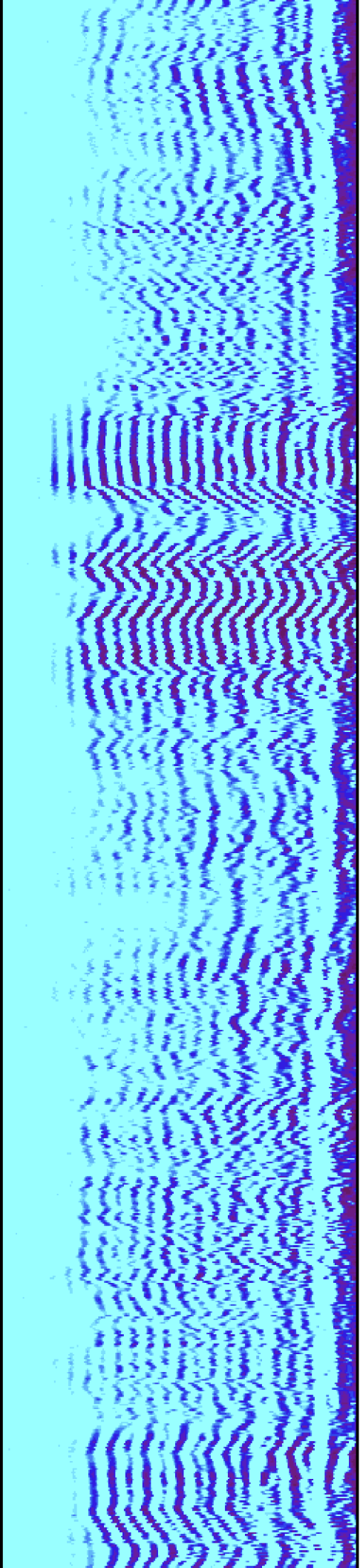




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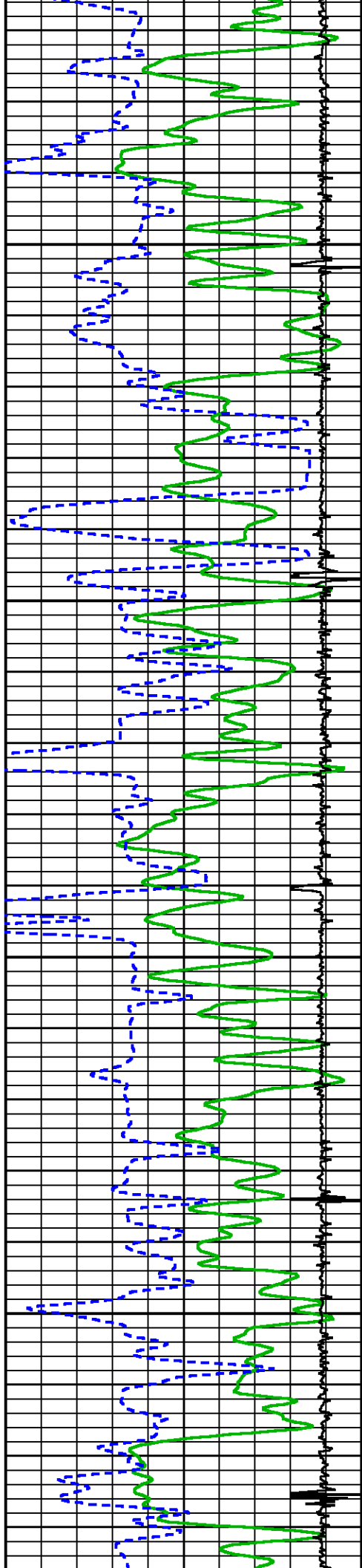
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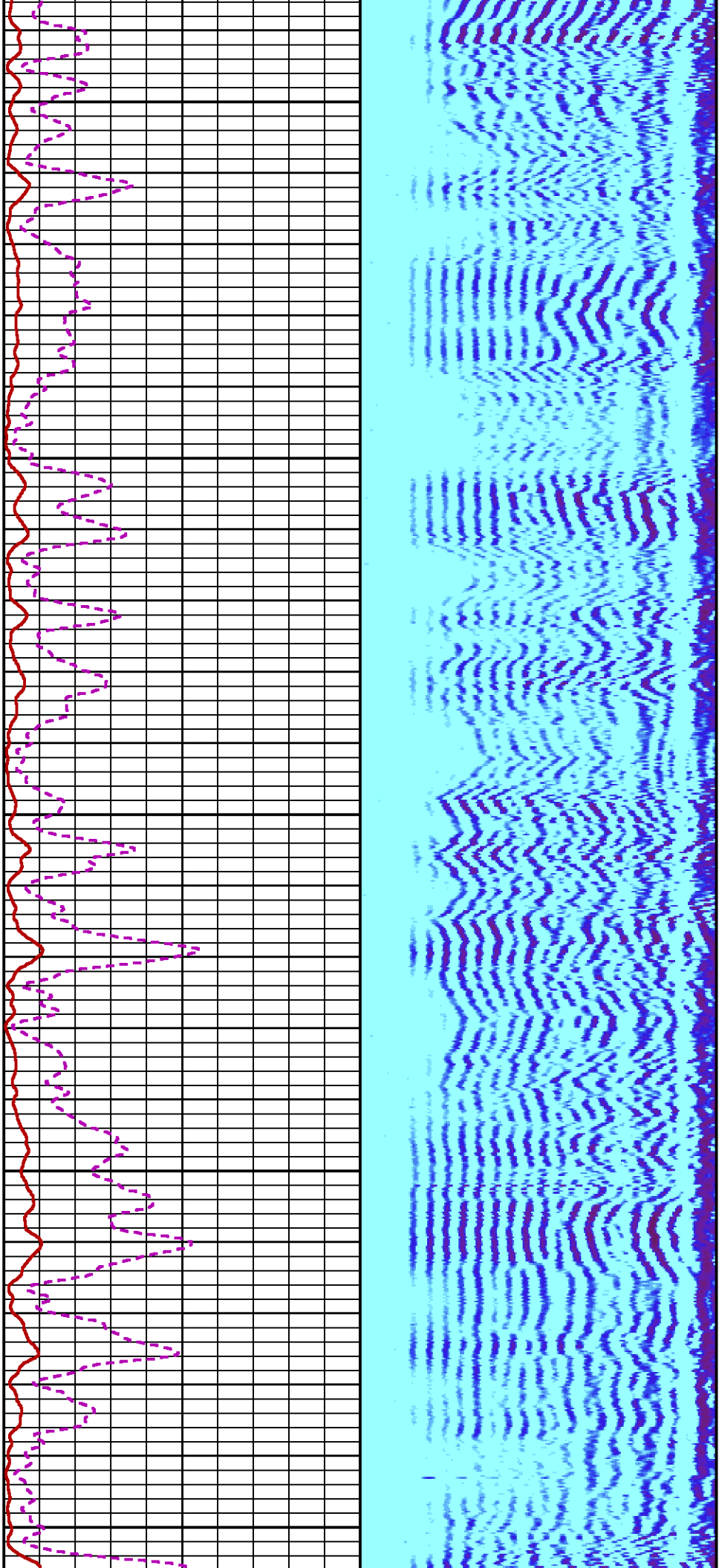




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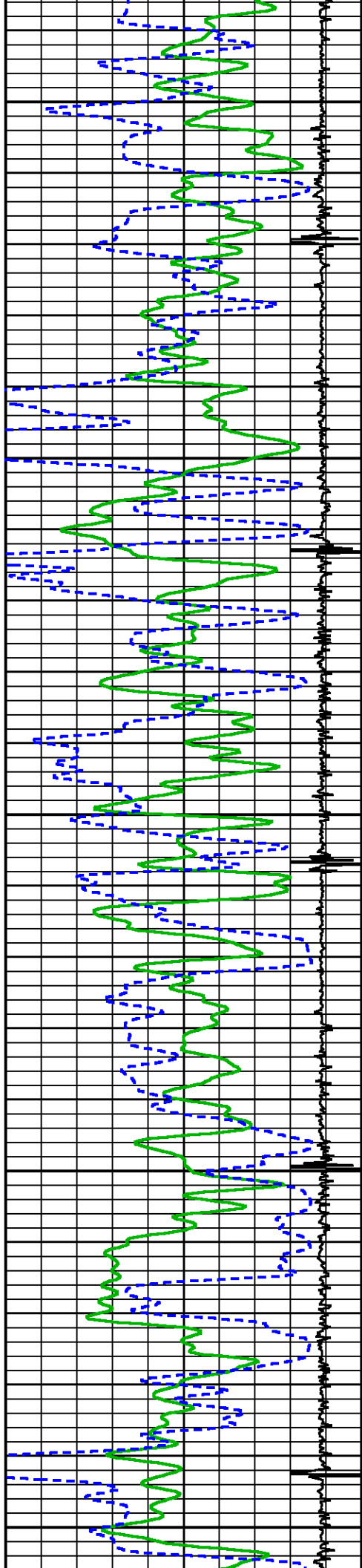


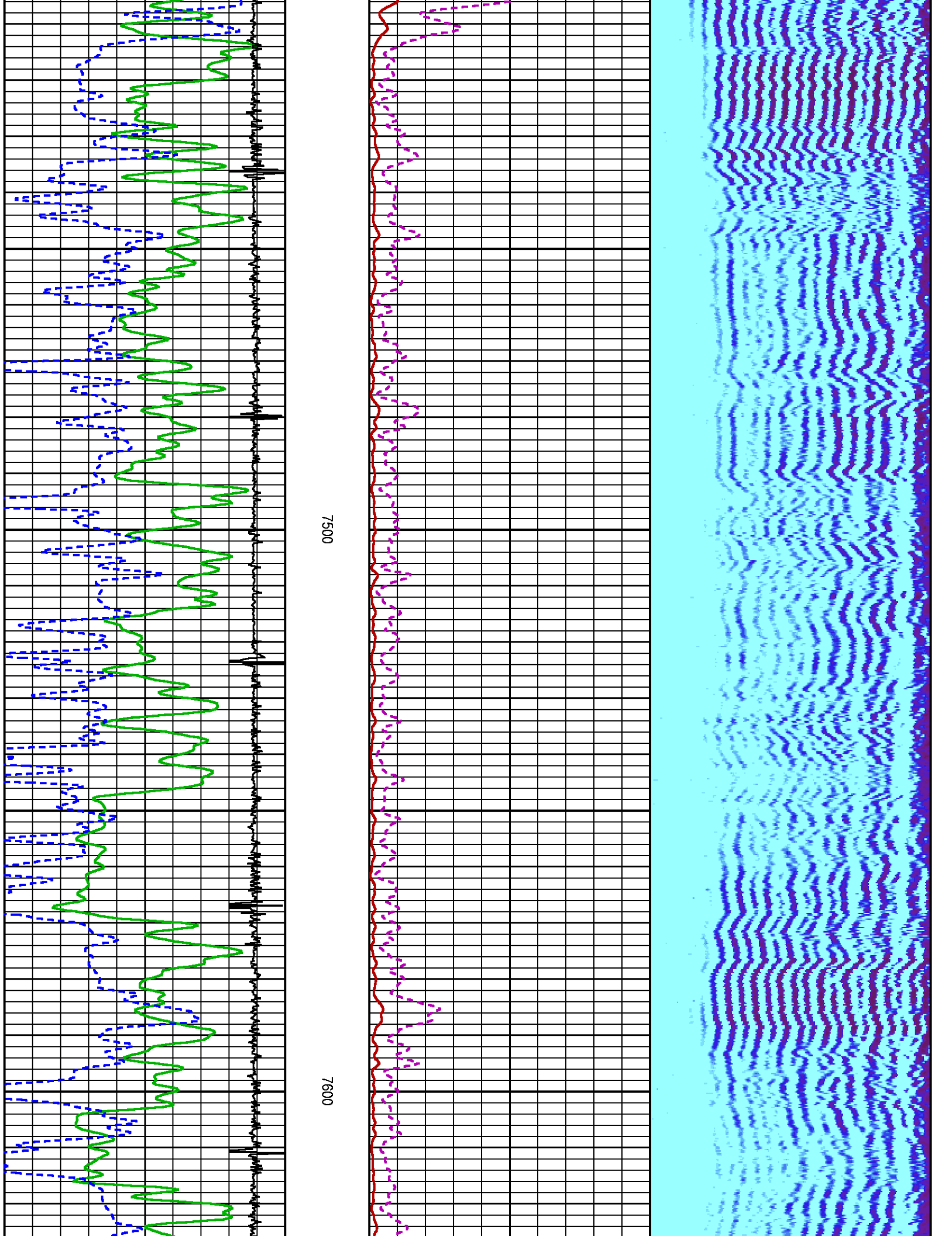


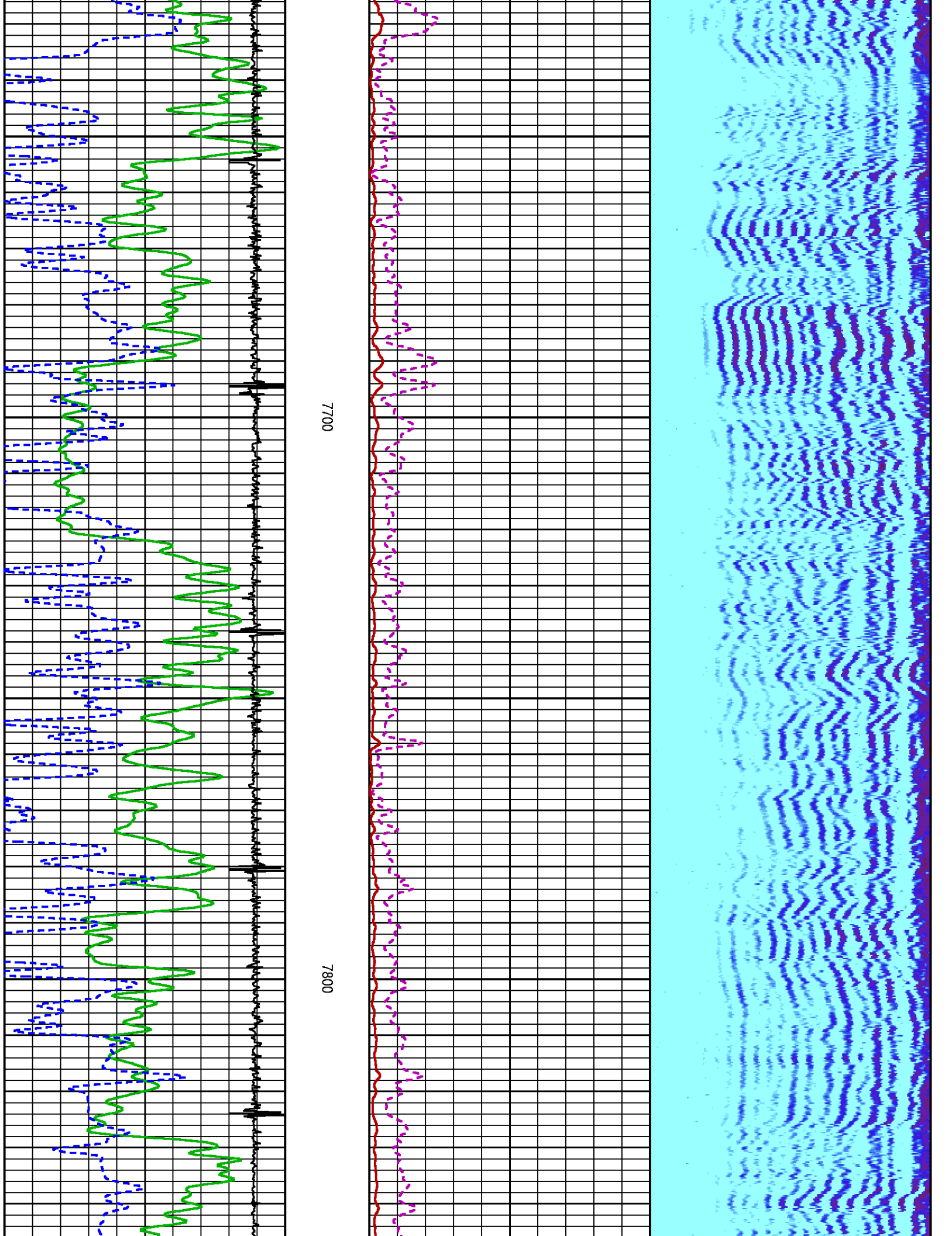
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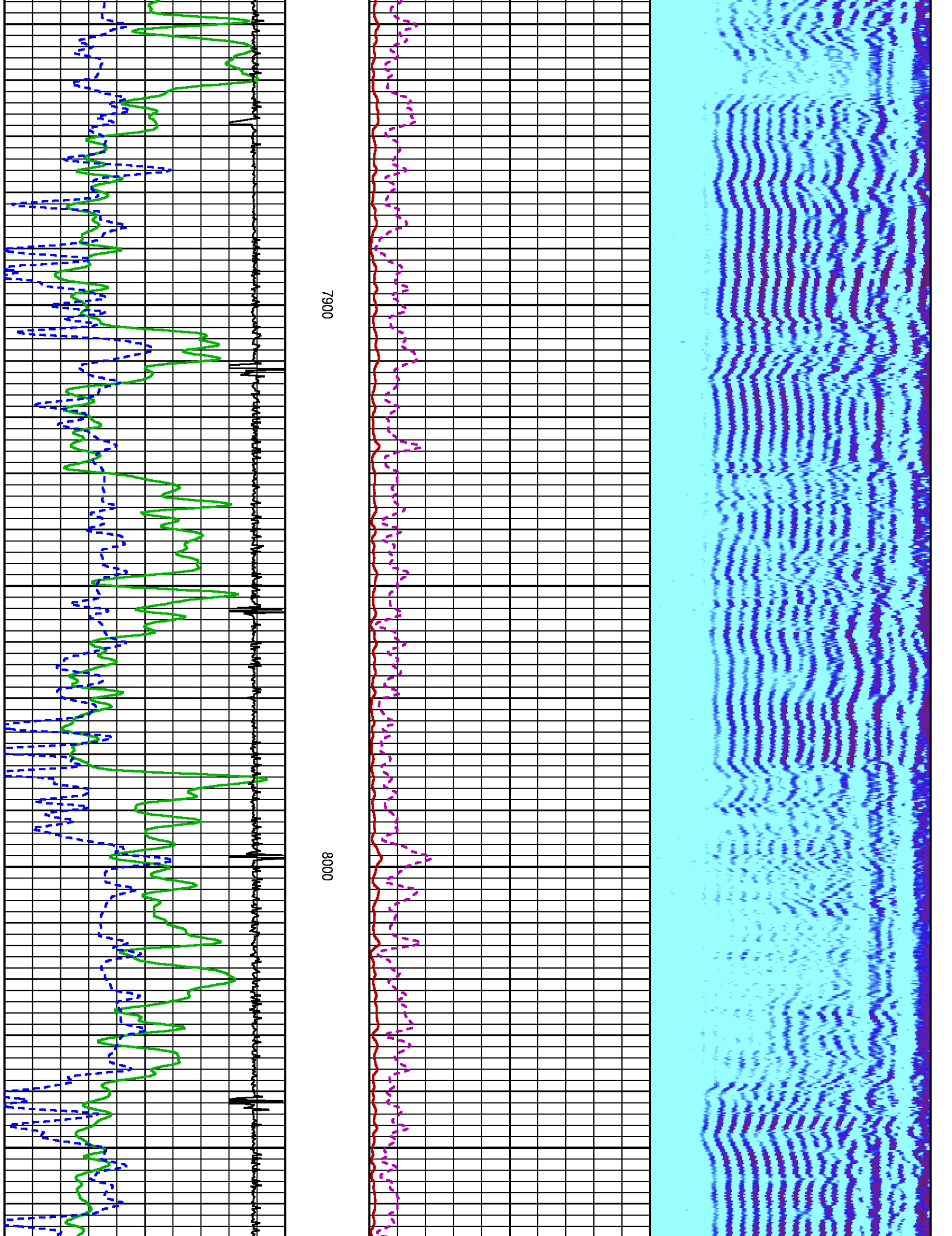
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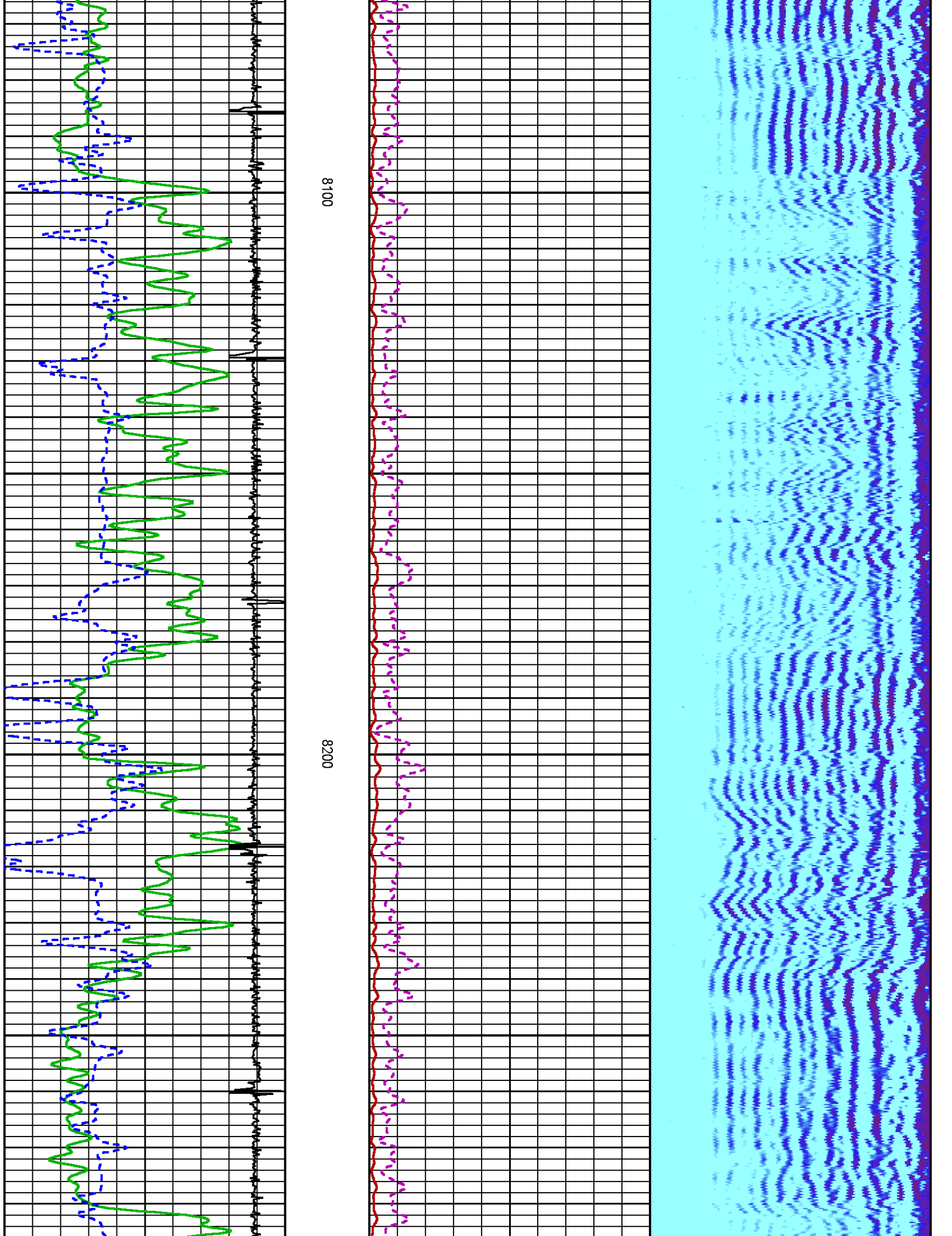
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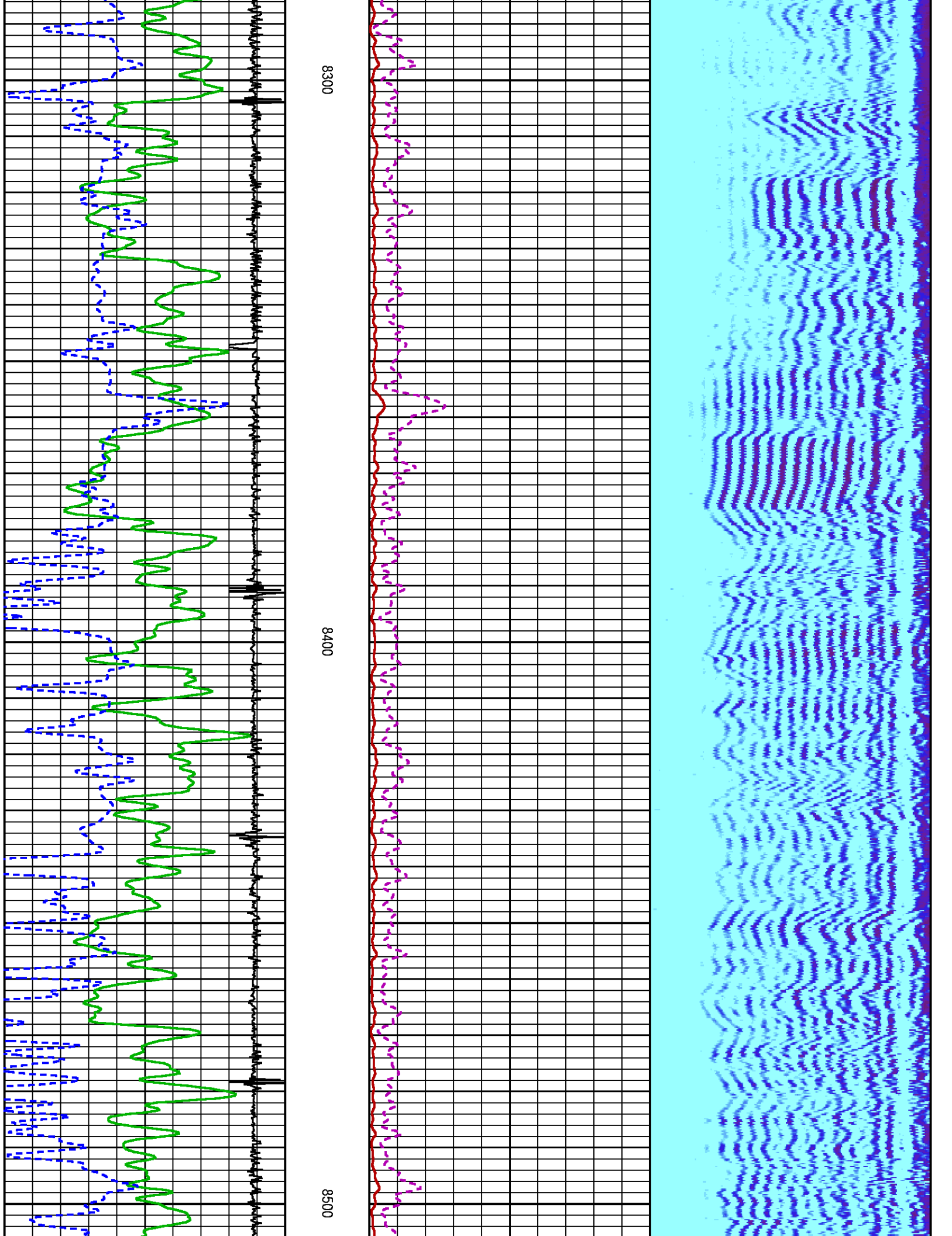


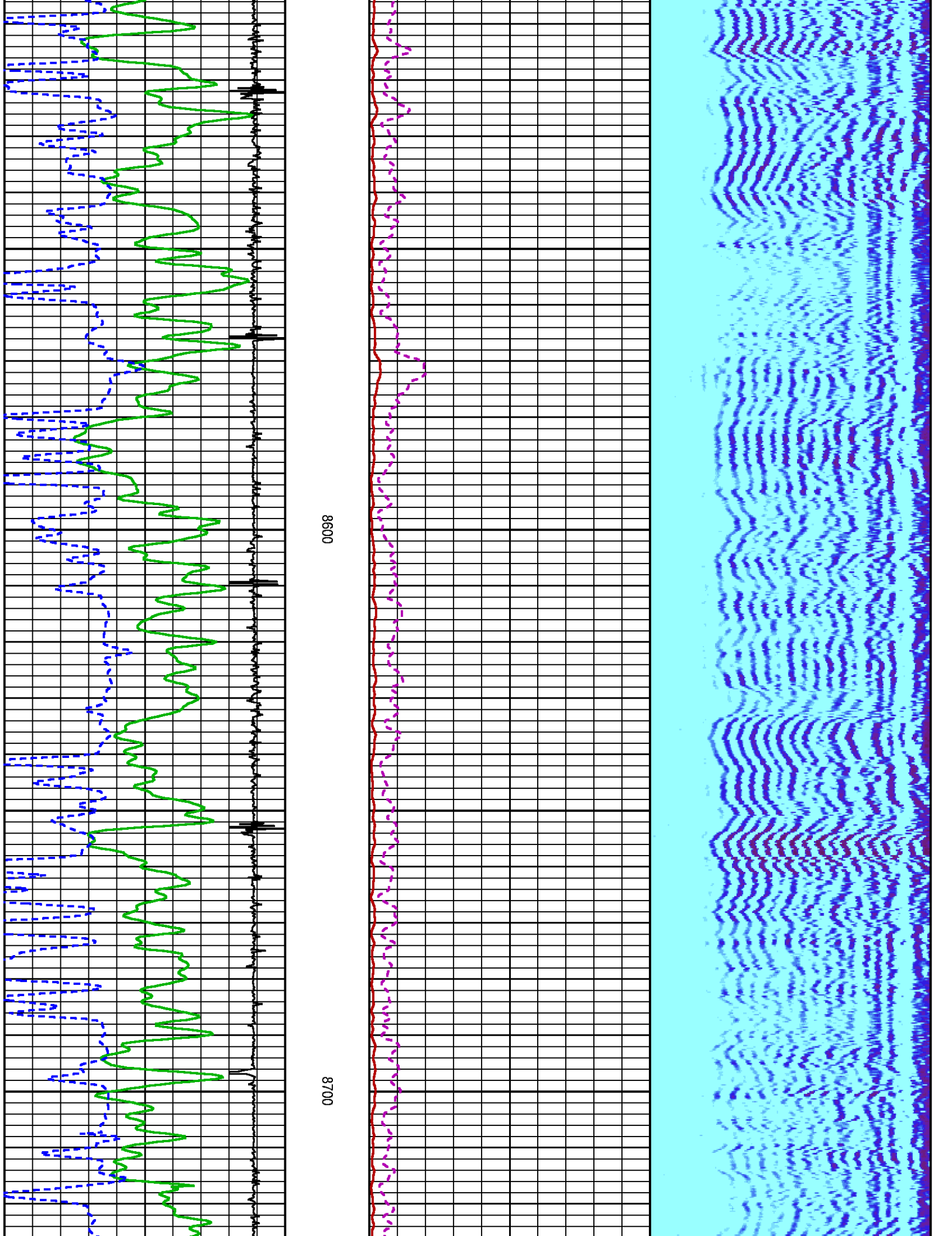






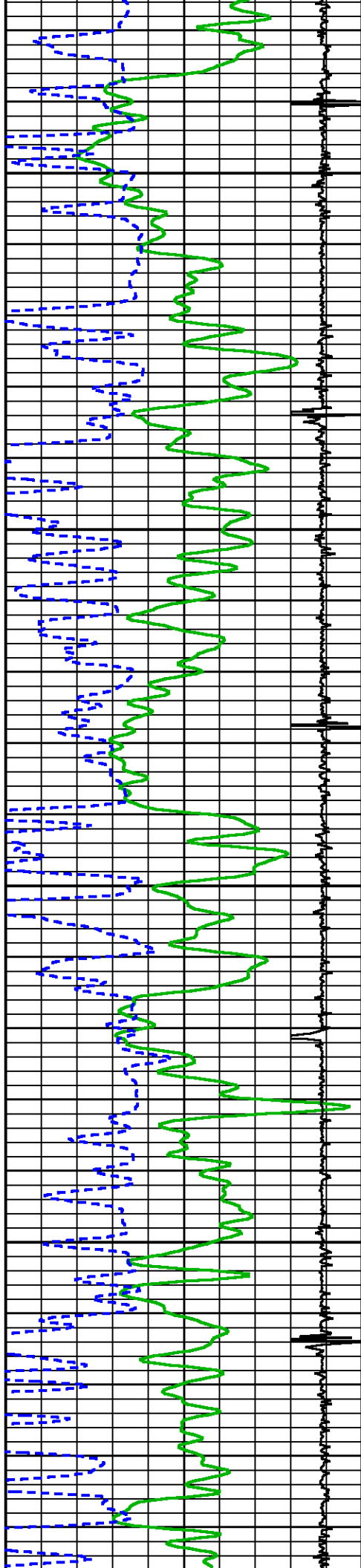






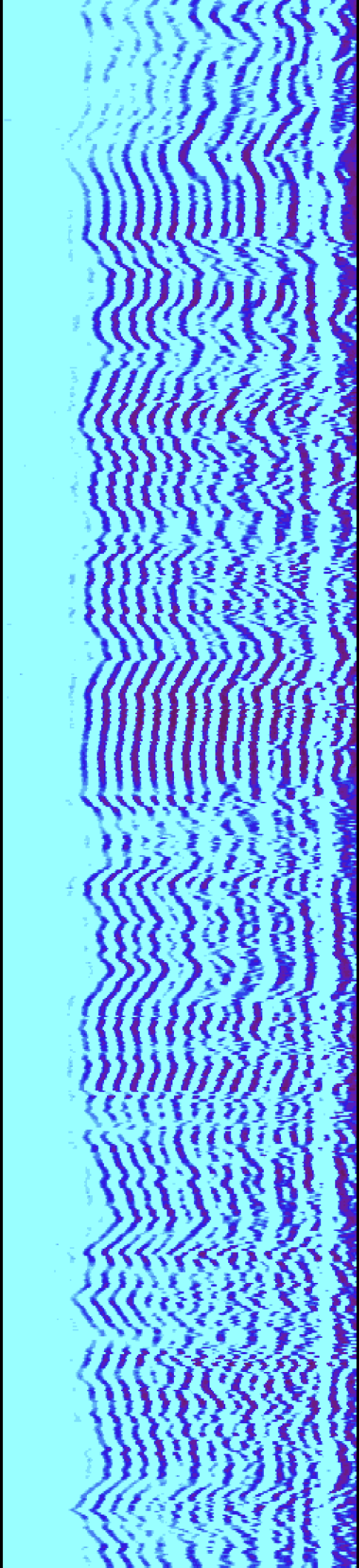
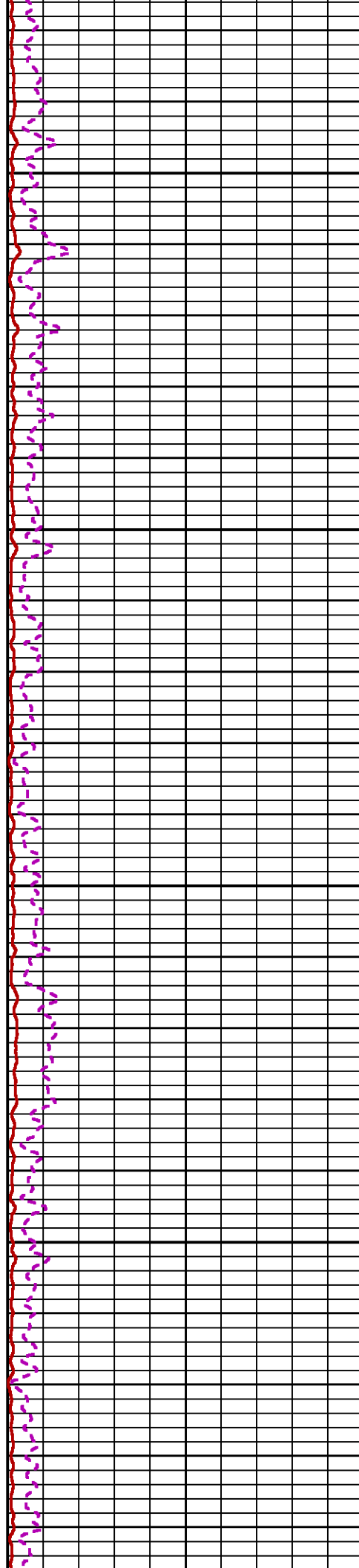
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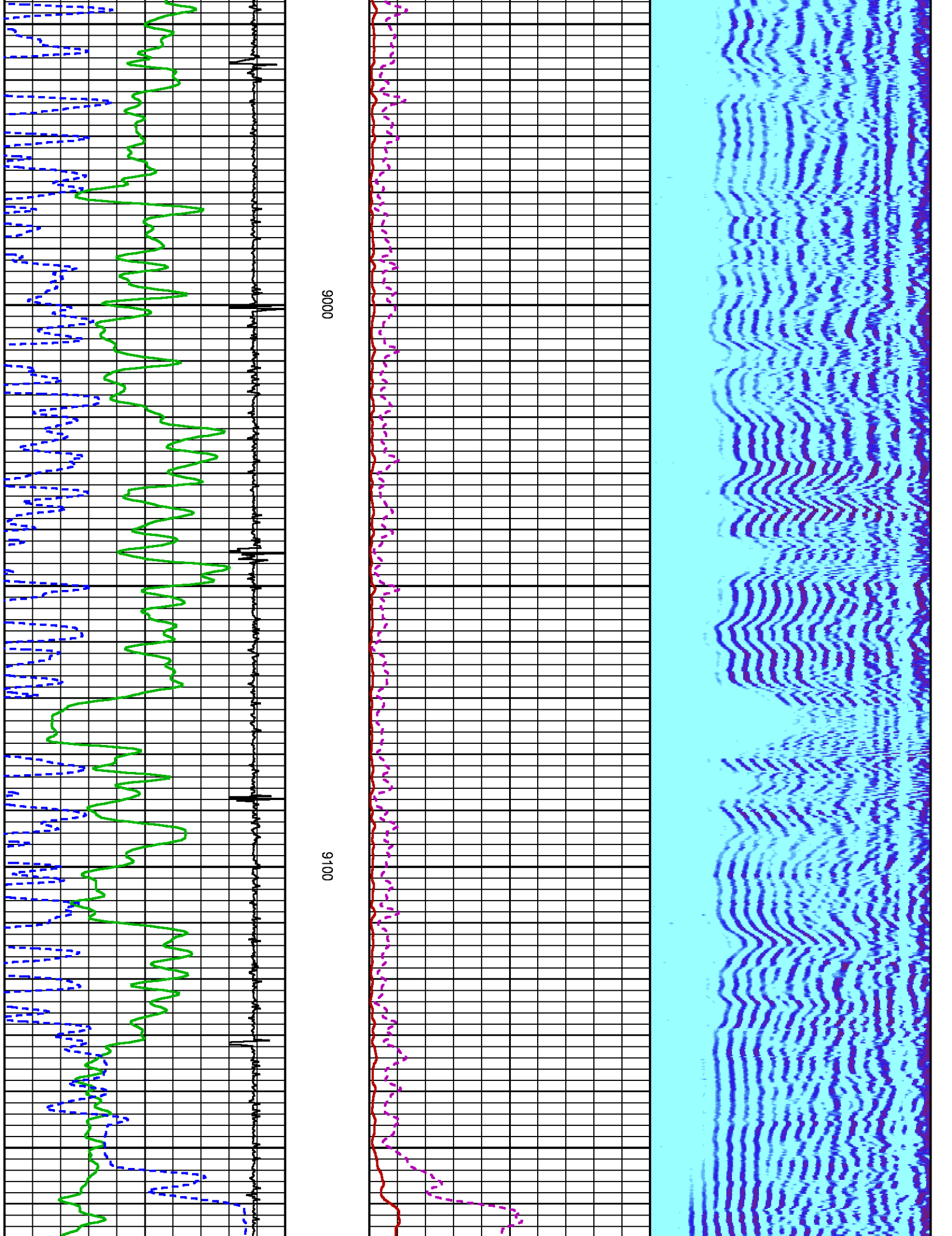
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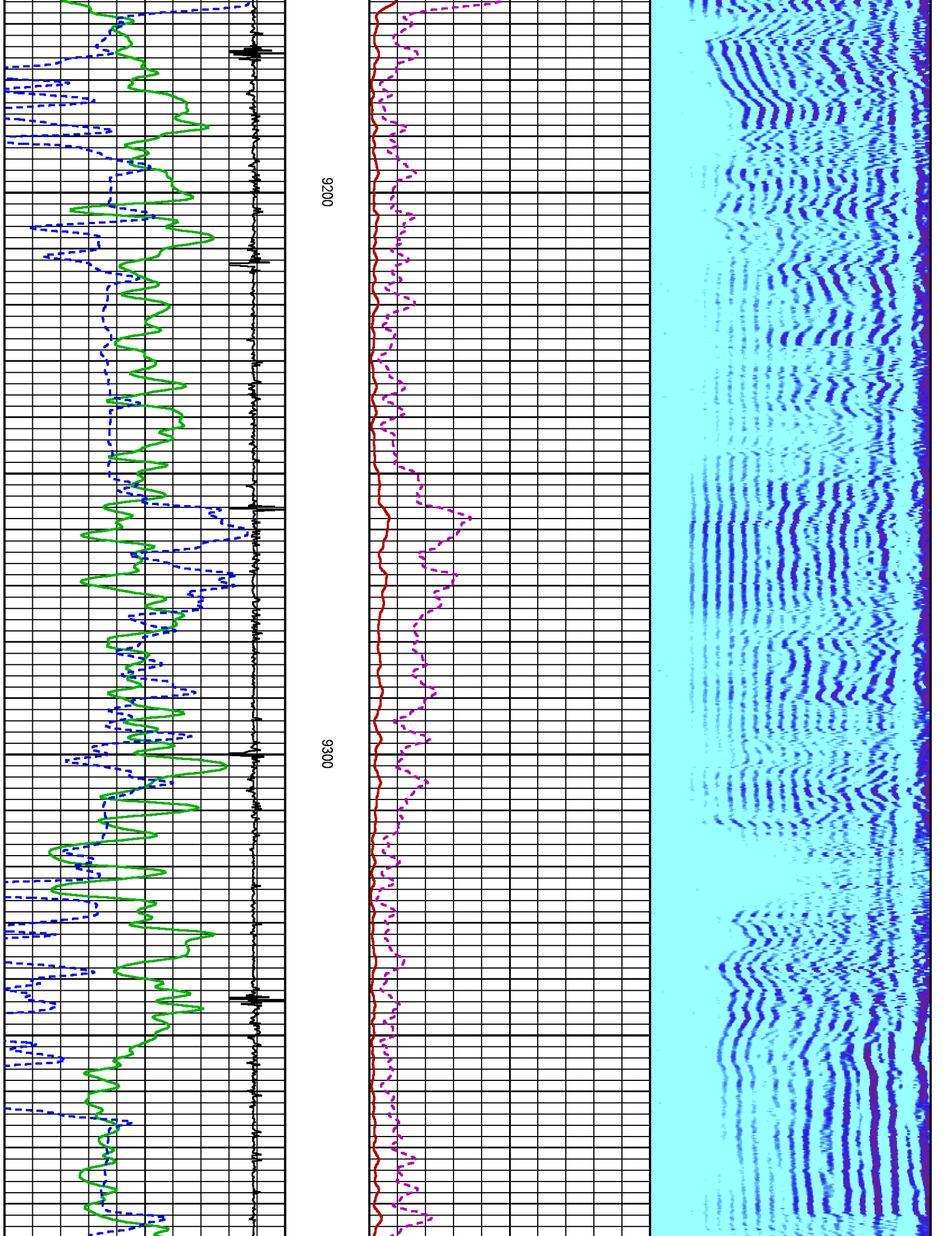


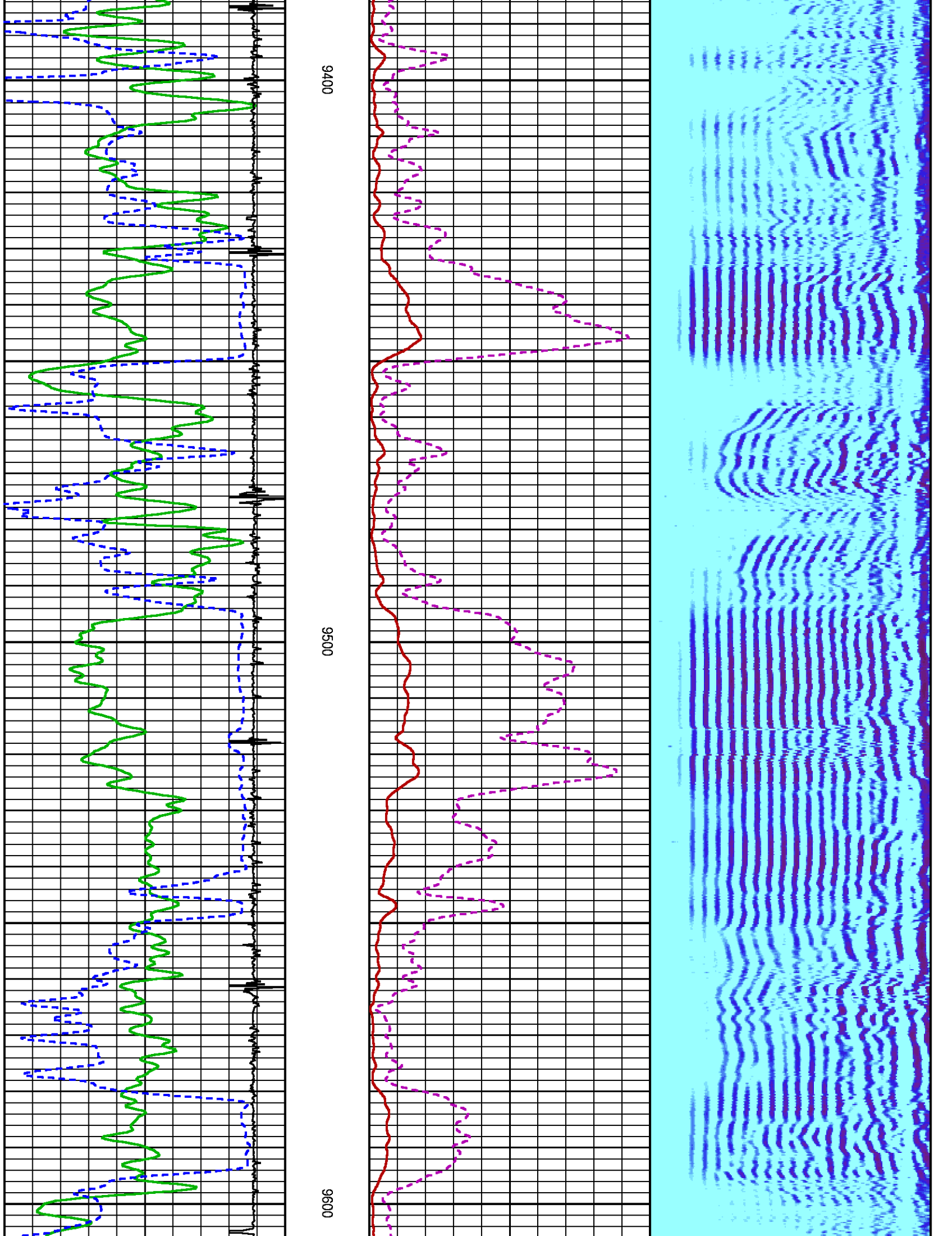
0088

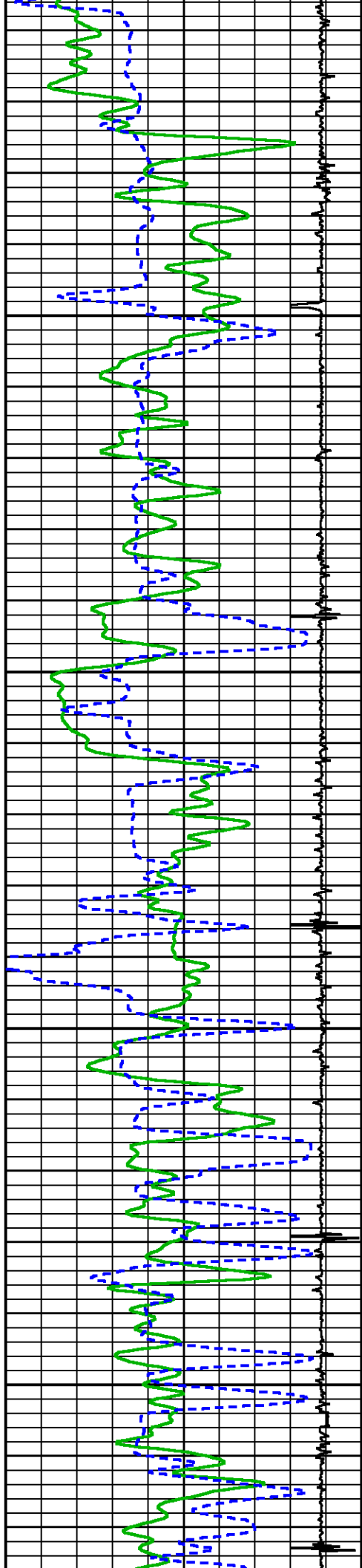
8900





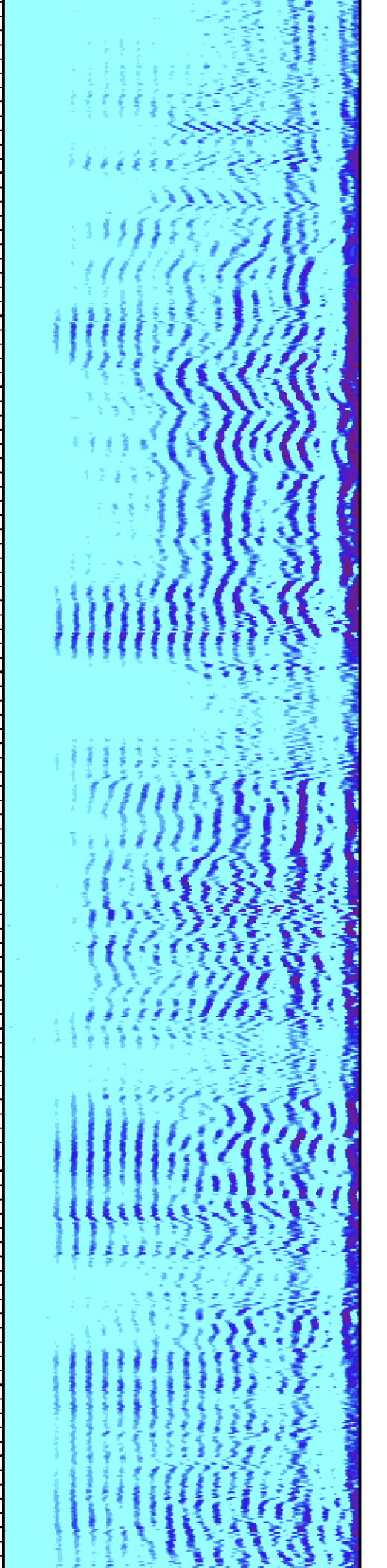
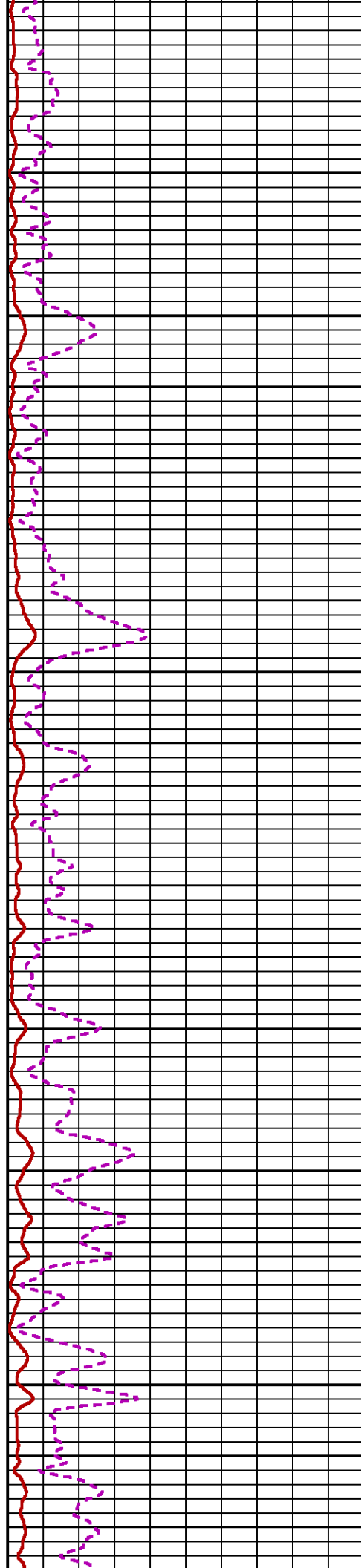


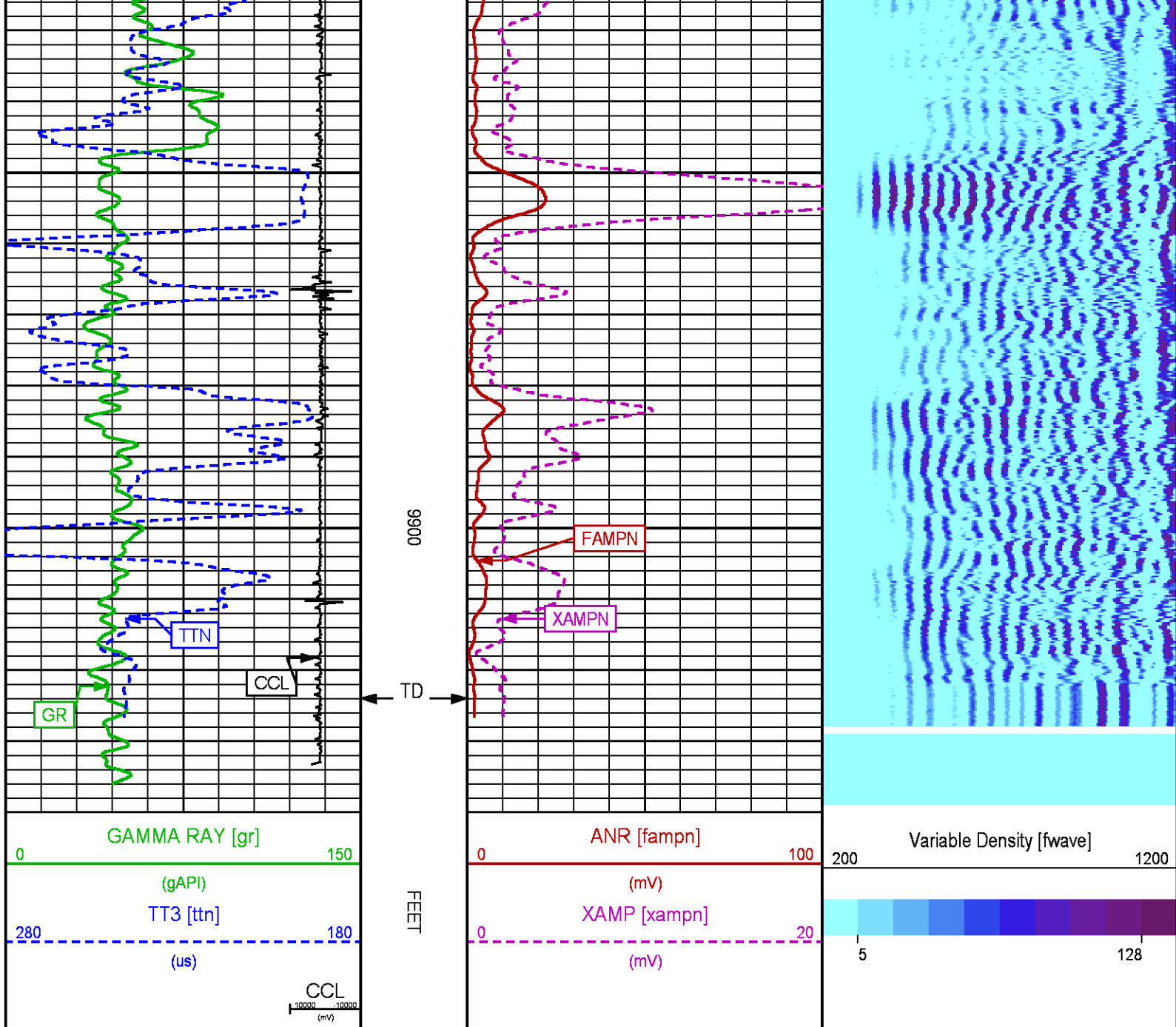




0086

9700





REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 6

Plotted: Mon Dec 7 09:42:28 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH101064/n012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 9643.250 ft BOTTOM DEPTH: 9931.000 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)		"	"

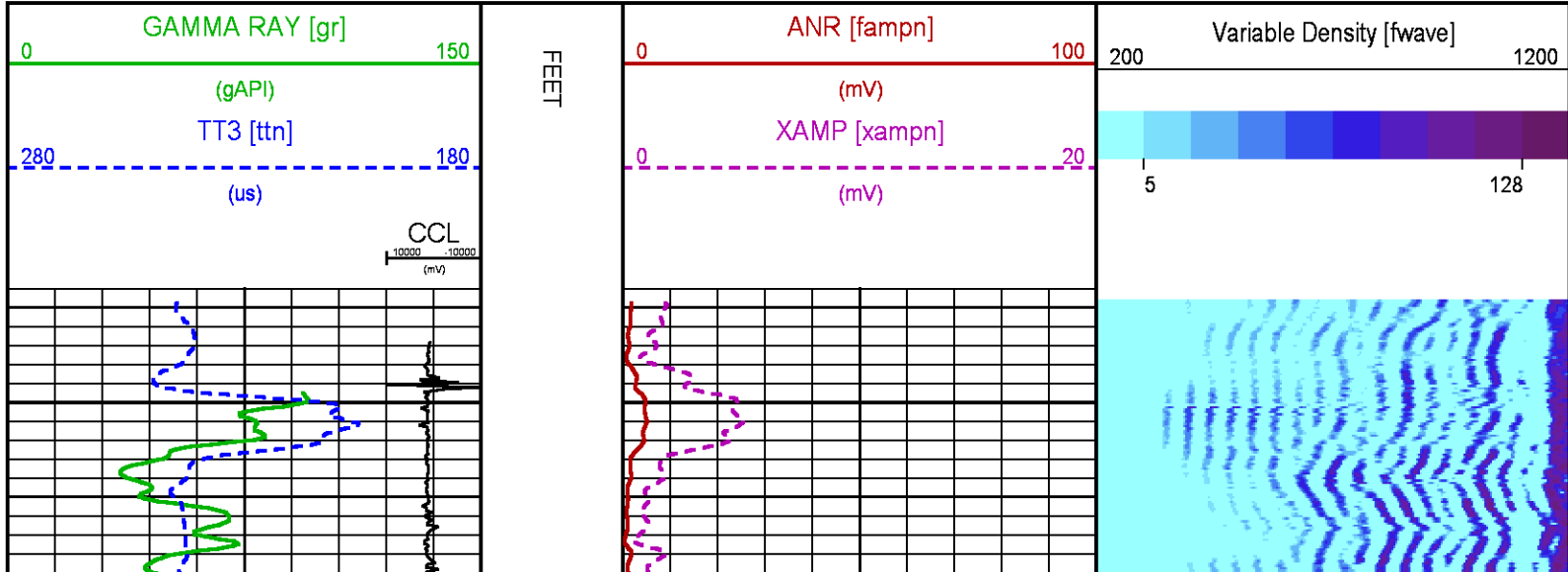
RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

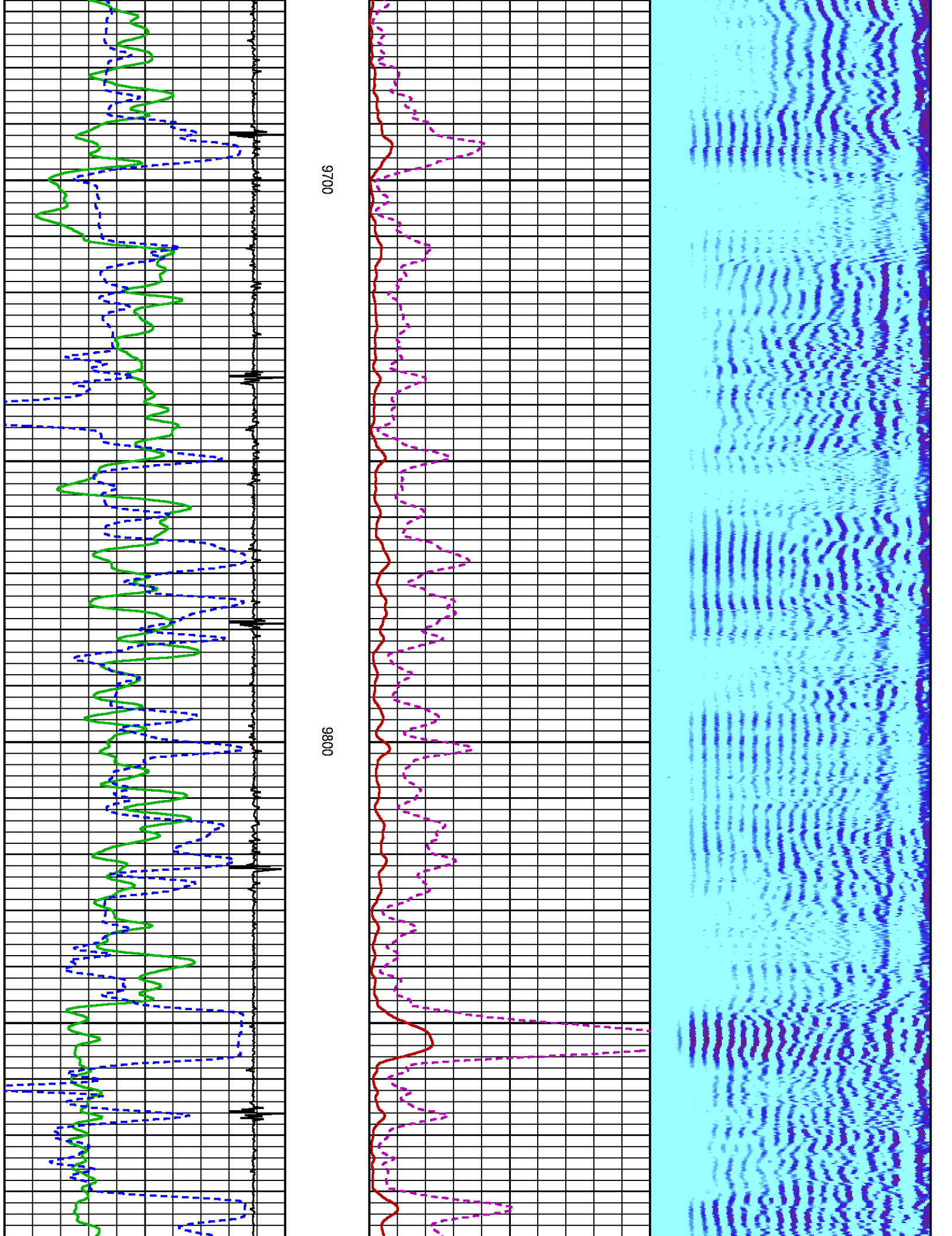
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
				"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-72	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

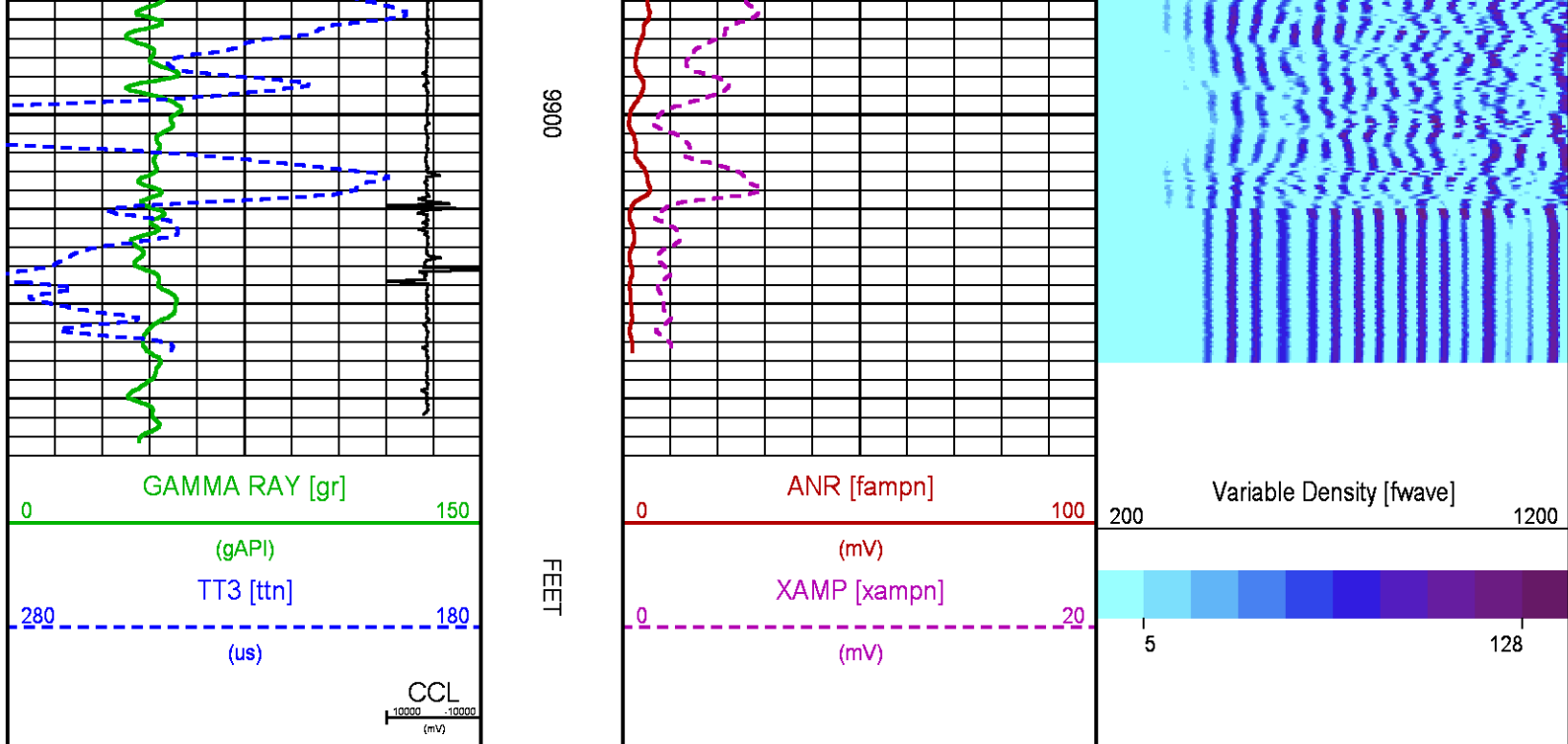
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 7 08:50:34 2015	CASING COLLAR LOCATOR
F1:FAMPN	Dec 7 08:50:34 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 7 08:50:34 2015	FAR WAVE FORM
F1:GR	Dec 7 08:50:34 2015	GAMMA RAY
F1:TTN	Dec 7 08:50:34 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 7 08:50:34 2015	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	: HL6670:/dat1a/CH101064/WPX_CBL_REPEAT_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval	: 9639.25 - 9936 Feet
Data File 1	: F1 : HL6670:/dat1a/CH101064/n012g01REPEAT21_8.xtf
Created On	: Dec 7 08:50:34 2015
Company	: WPX ENERGY
Well	: FEDERAL RU 21-8
Field	: RUILISON
File Interval	: 9638.25 - 9937.5 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: 6

Plotted: Mon Dec 7 11:41:52 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH101064/n012g03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 6.750 ft BOTTOM DEPTH: 8823.250 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	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	"	"

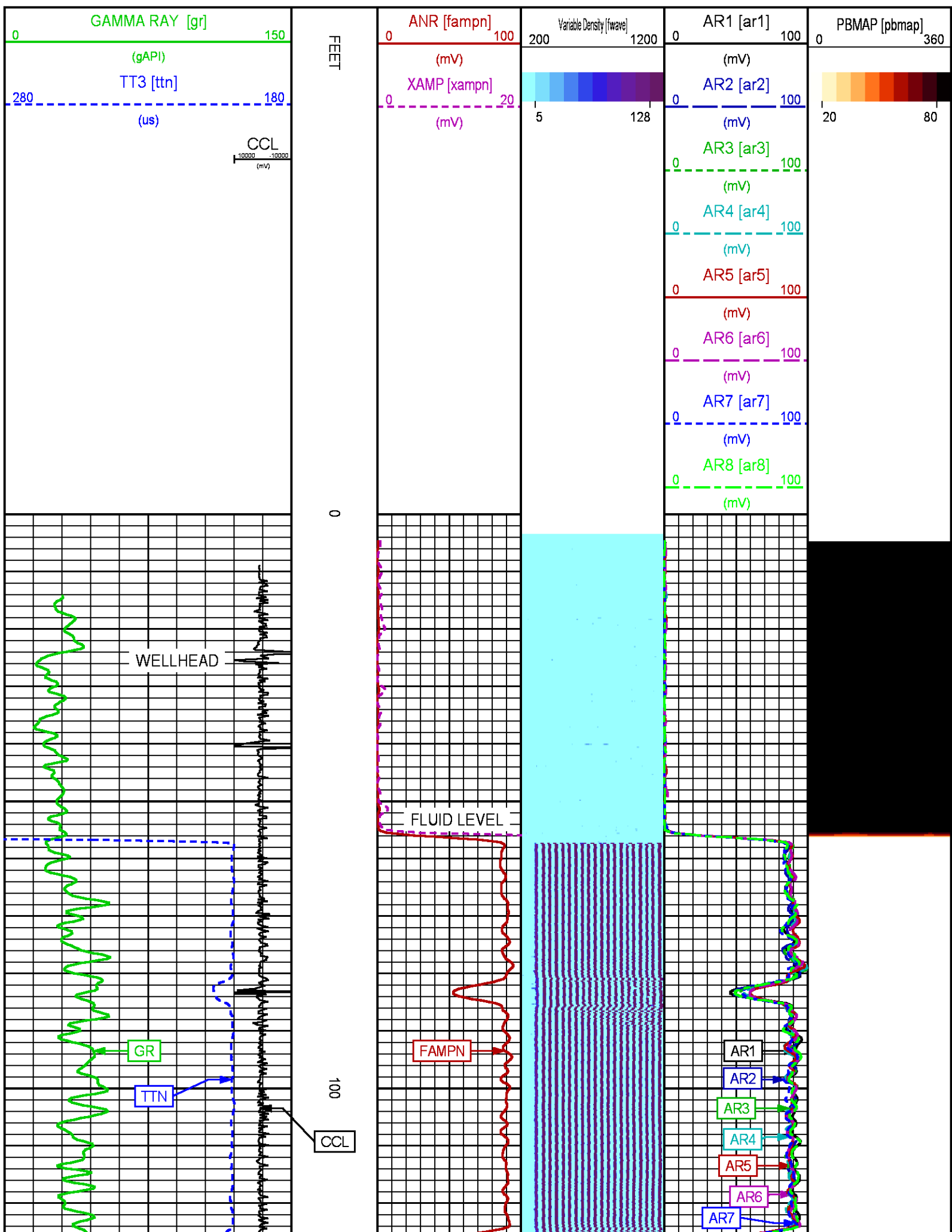
	AMP WINDOW START (fgpn*)	187	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-72	us	"	"
	TOOL DELAY (str2*)	-72	us	"	"
	TOOL DELAY (str3*)	-72	us	"	"
	TOOL DELAY (str4*)	-72	us	"	"
	TOOL DELAY (str5*)	-72	us	"	"
	TOOL DELAY (str6*)	-72	us	"	"
	TOOL DELAY (str7*)	-72	us	"	"
	TOOL DELAY (str8*)	-72	us	"	"
	TOOL DELAY (strn*)	-72	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

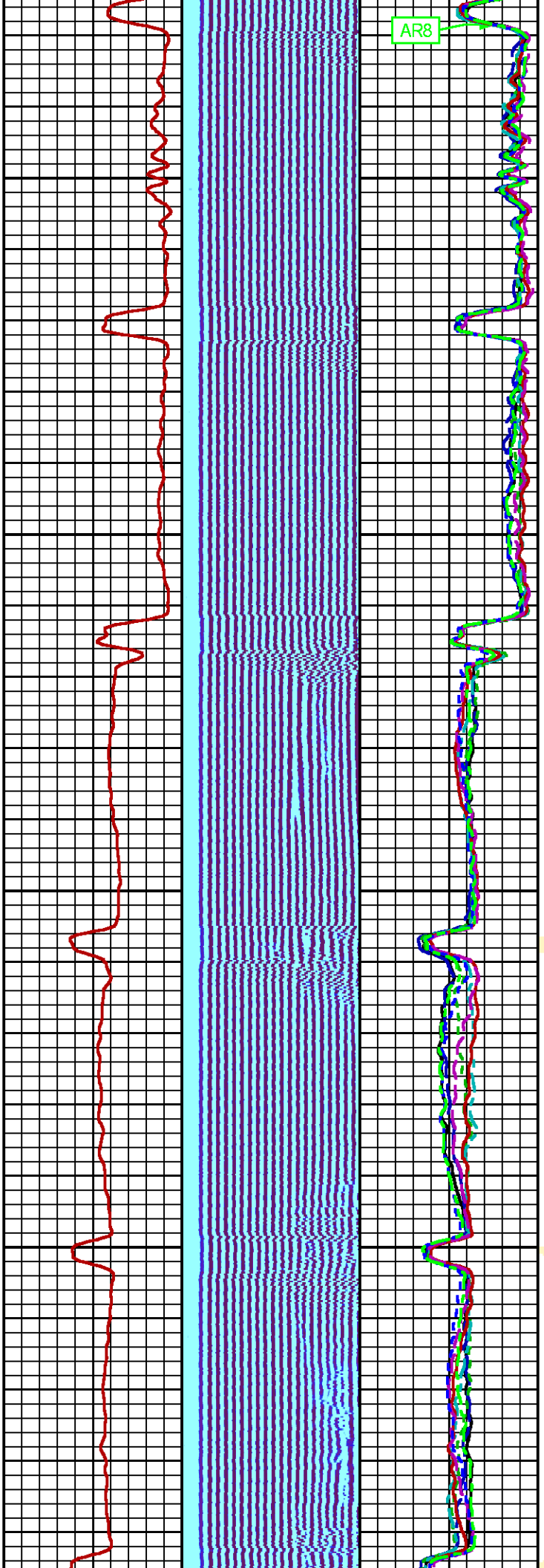
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE 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	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Dec 7 09:33:31 2015	CASING COLLAR LOCATOR
F1:FAMPN	Dec 7 09:33:31 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 7 09:33:31 2015	FAR WAVE FORM
F1:GR	Dec 7 09:33:31 2015	GAMMA RAY
F1:PBMAP	Dec 7 09:33:31 2015	PERCENT BOND CEMENT MAP
F1:TTN	Dec 7 09:33:31 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 7 09:33:31 2015	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		

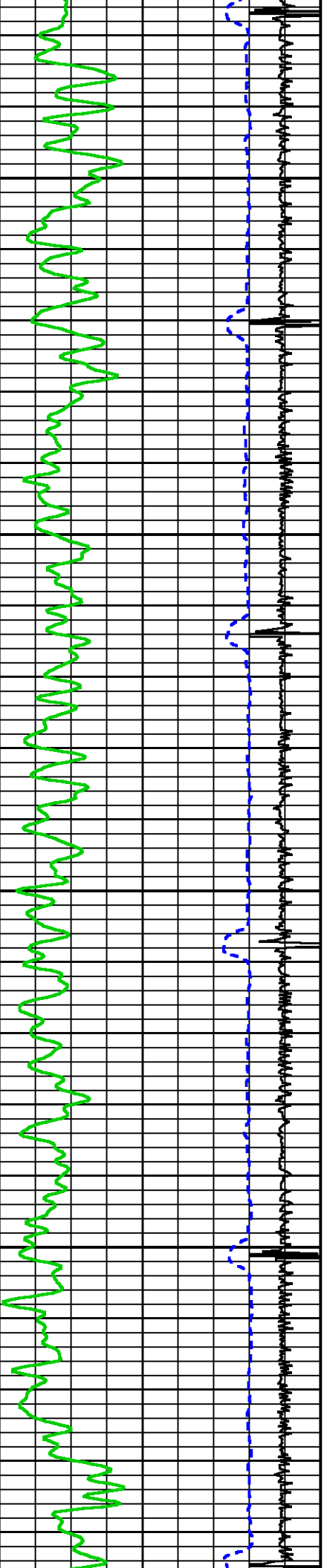
Presentation	: HL6670:/dat1a/CH101064/WPX_CBL_SECONDARY_PRESENTATION.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 9929 Feet
Data File 1	: F1 : HL6670:/dat1a/CH101064/FEDRU218s.xtf
Created On	: Dec 7 09:33:31 2015
Company	: WPX ENERGY
Well	: FEDERAL RU 21-8
Field	: RUILISON
File Interval	: 3.5 - 9939 Feet

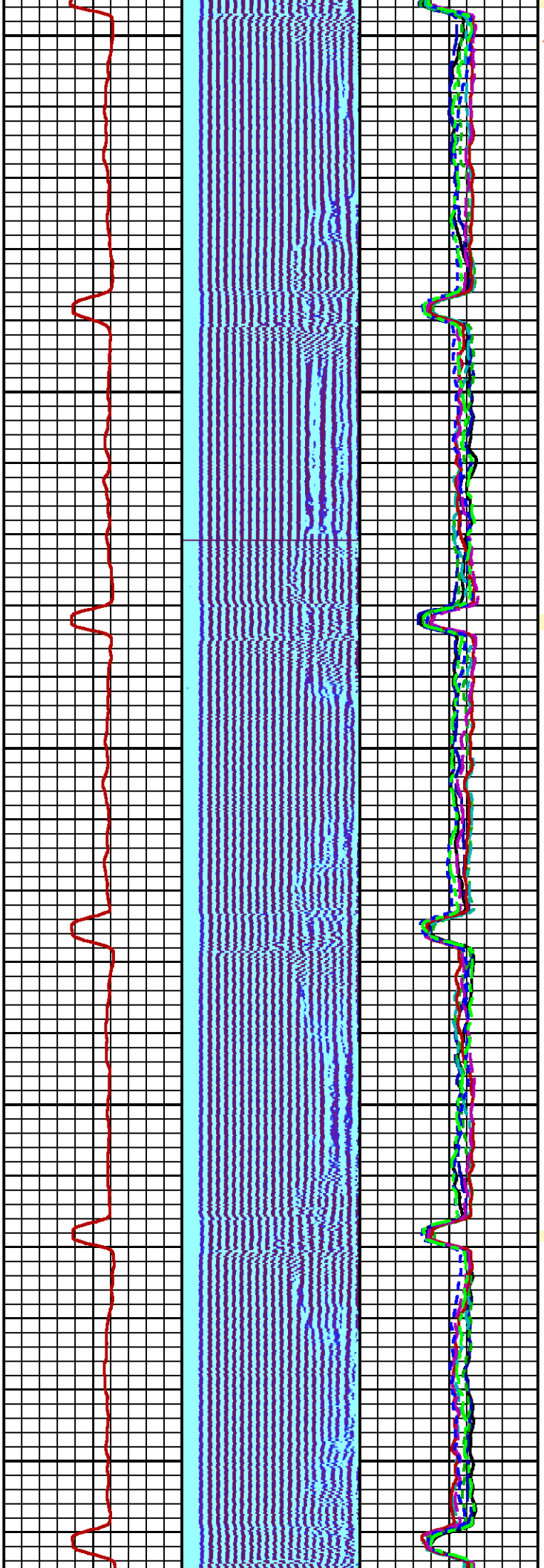




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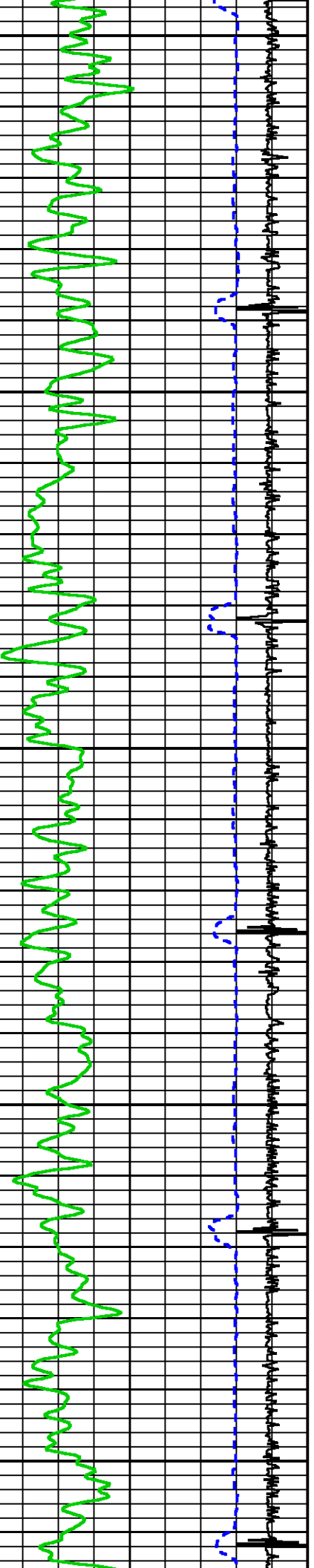
300

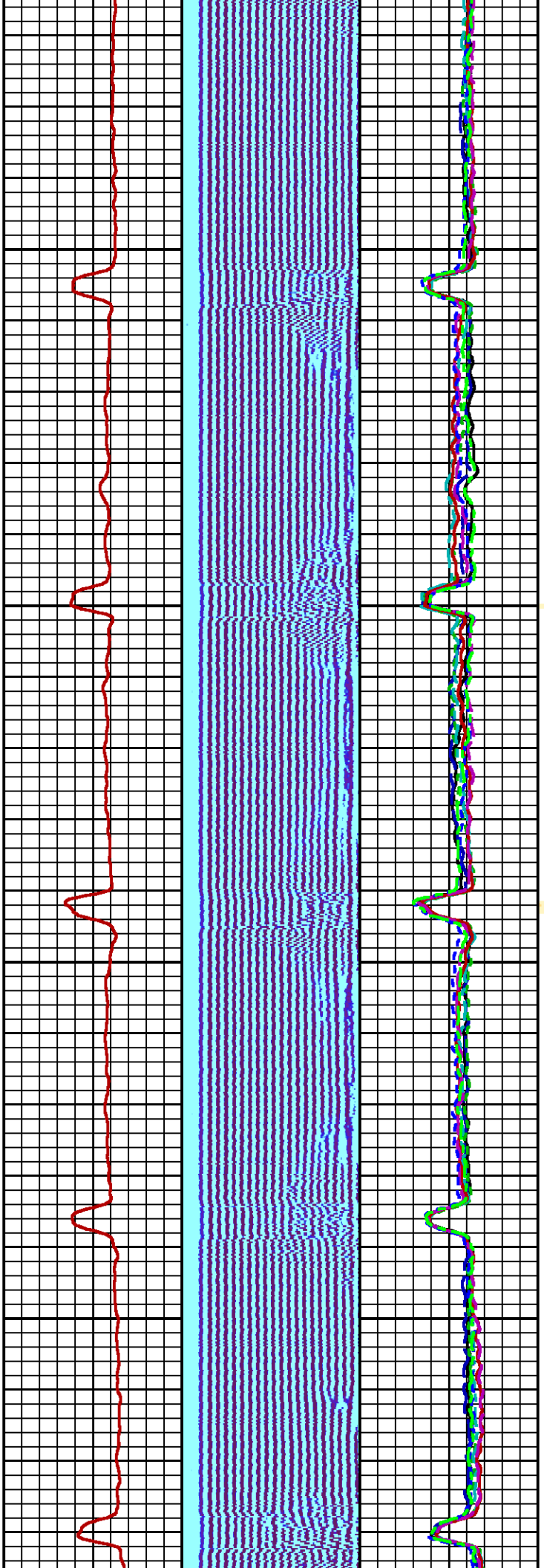




400

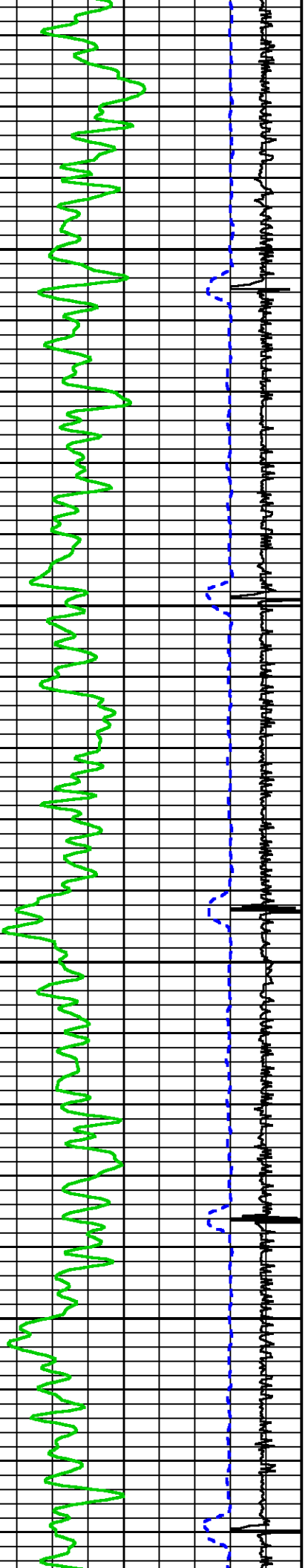
500

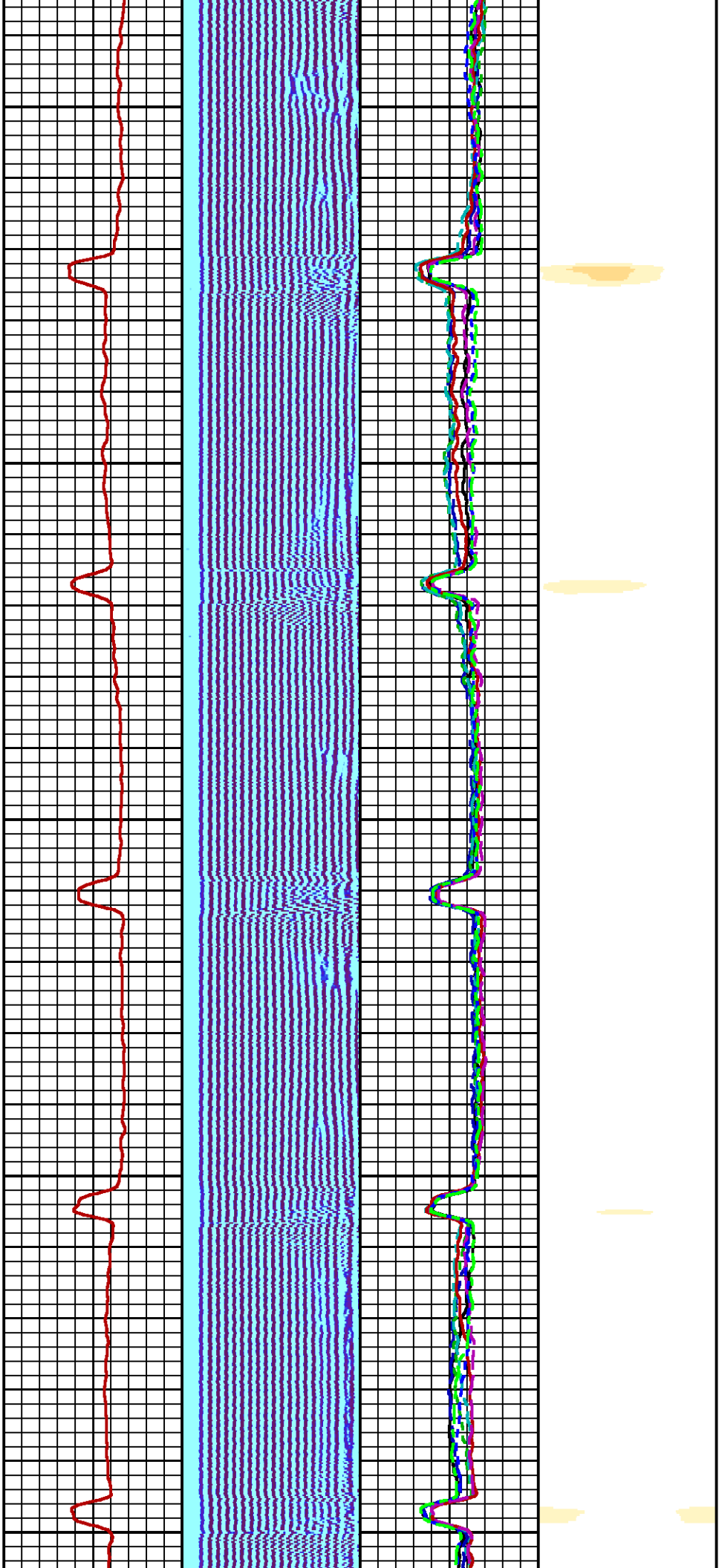




600

700

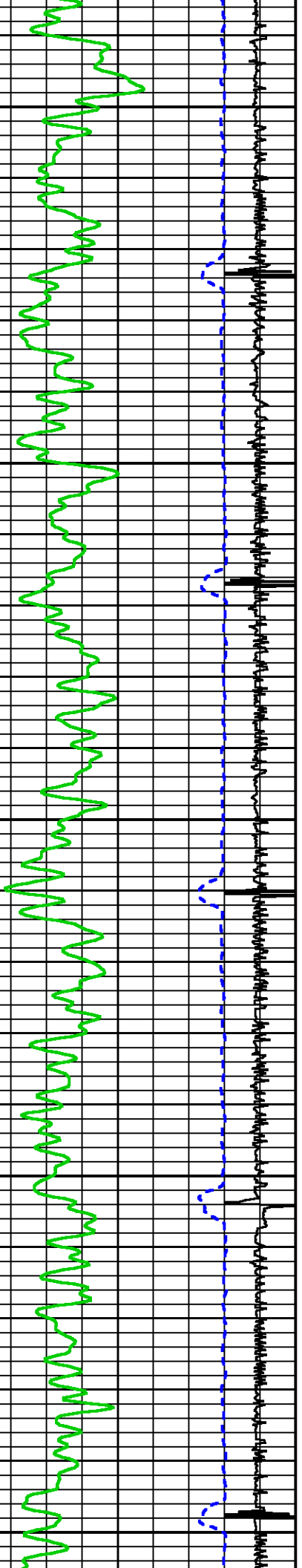


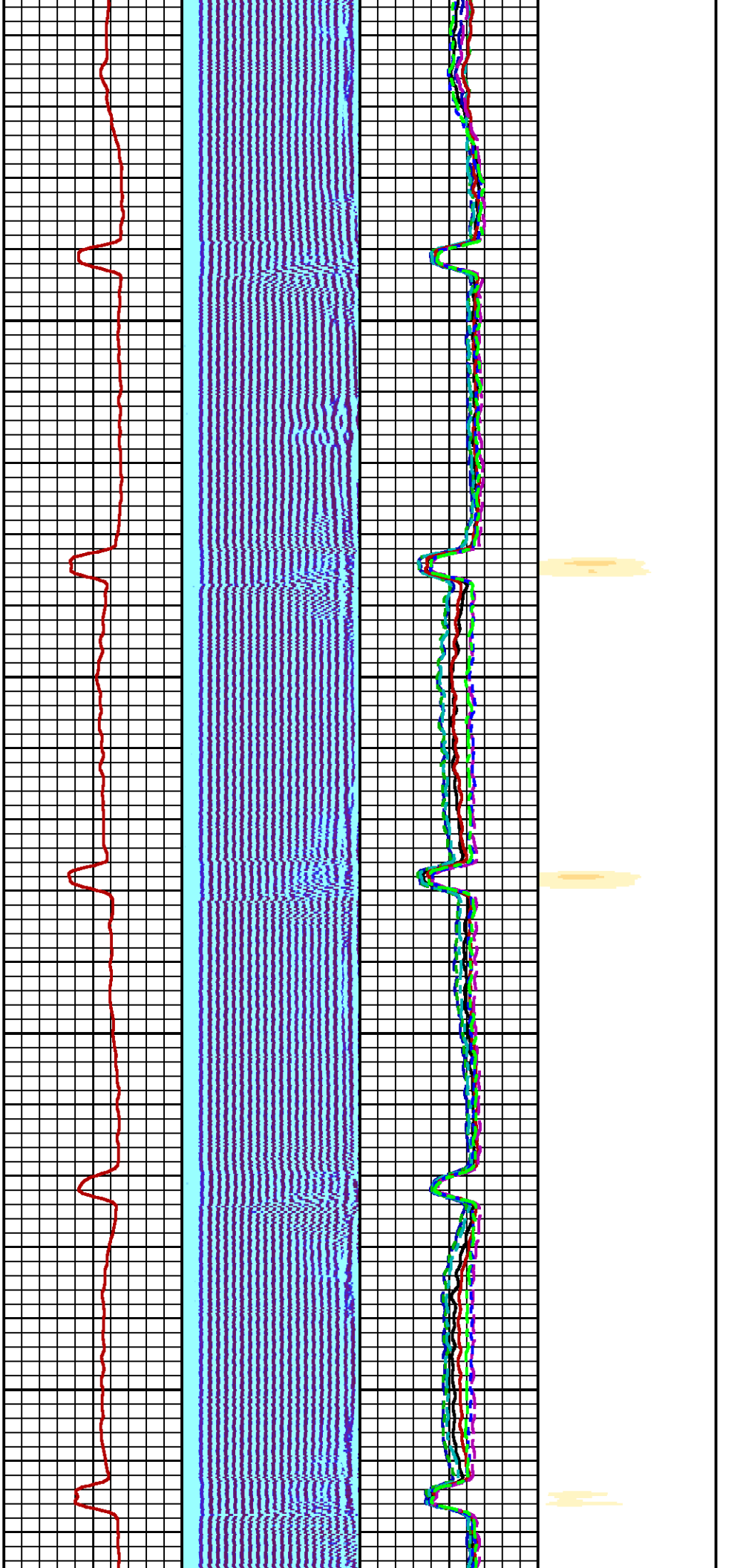


800

900

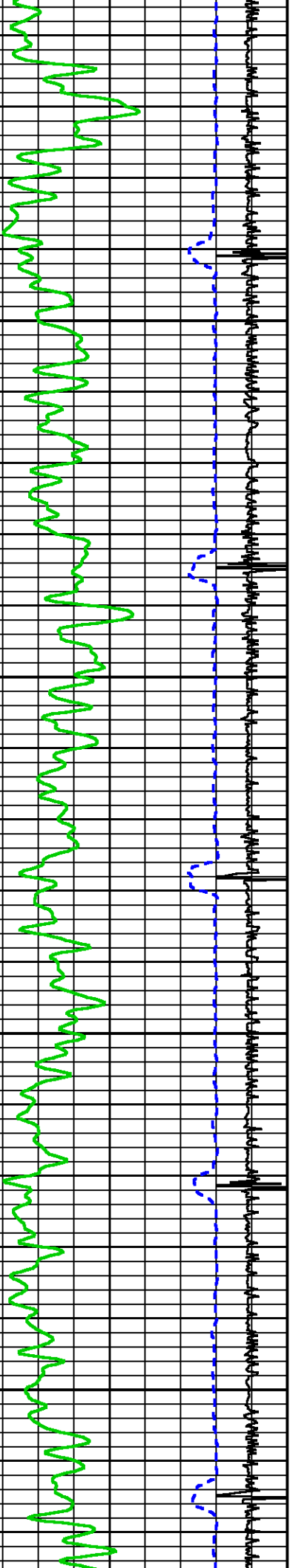
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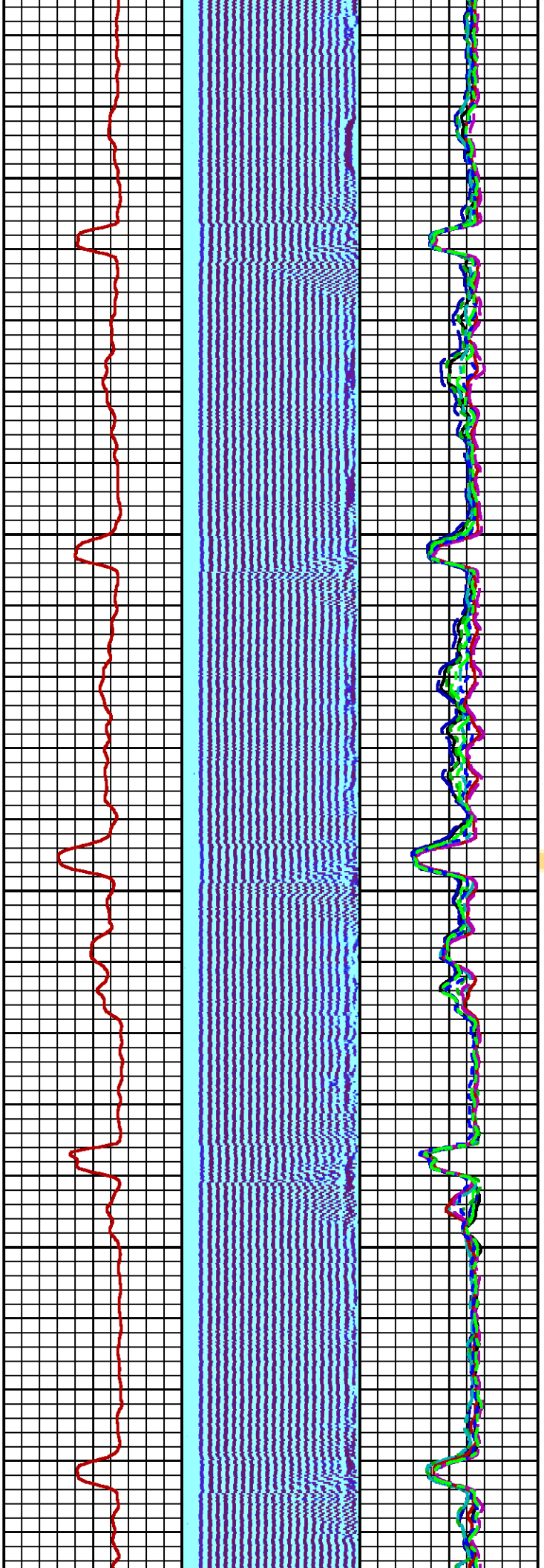




1100

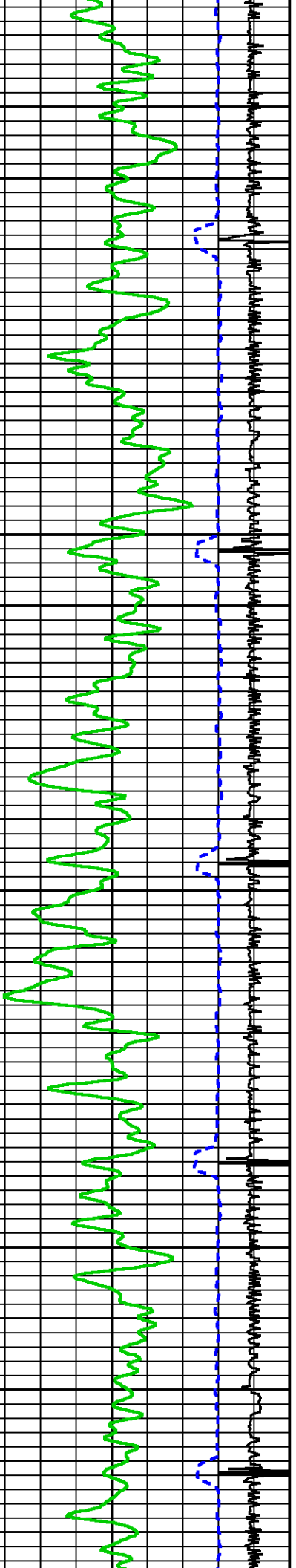
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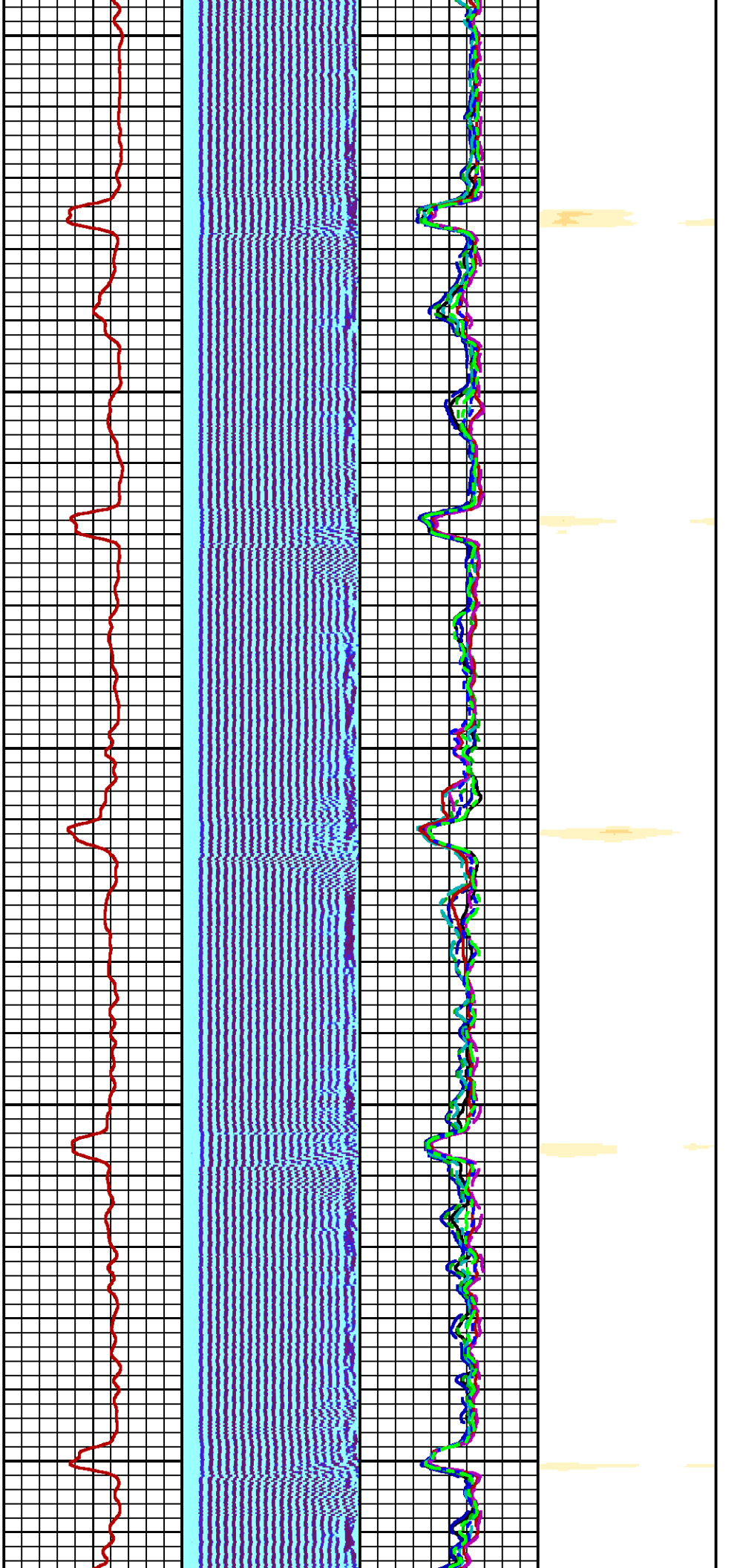




1300

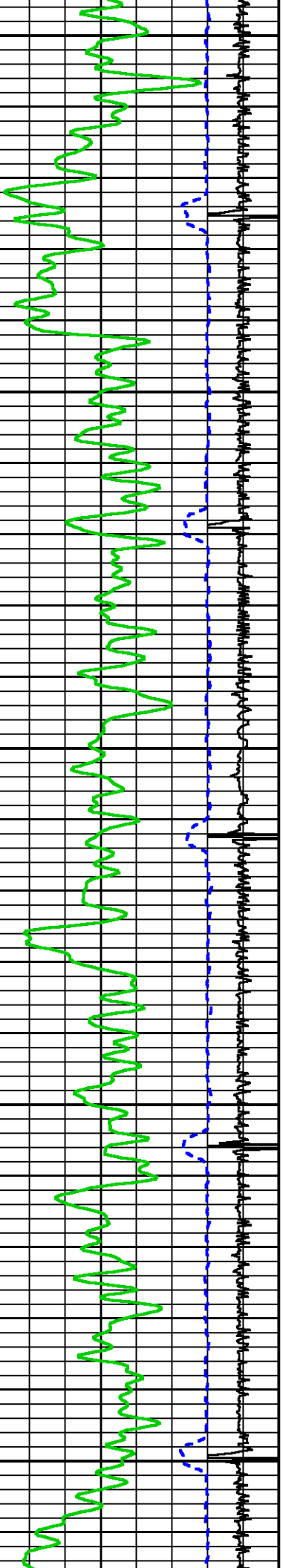
1400

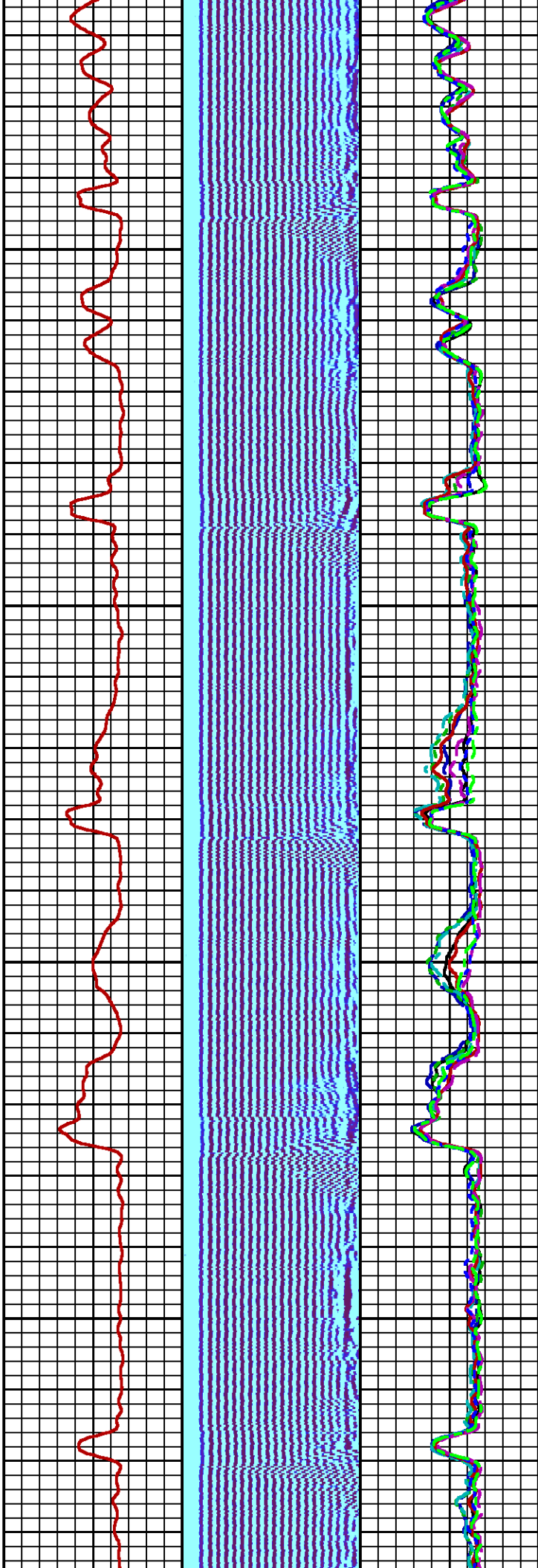
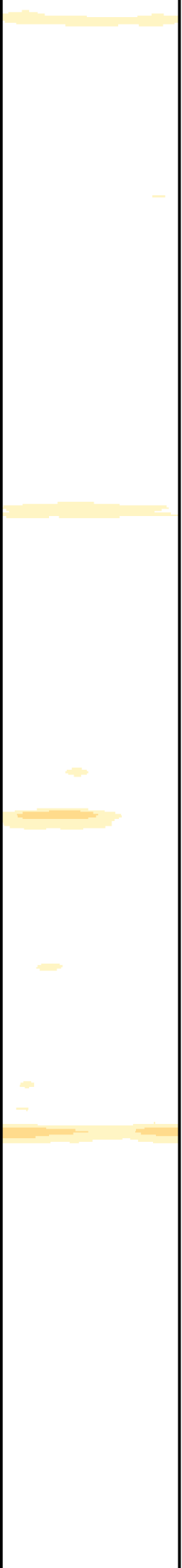




1500

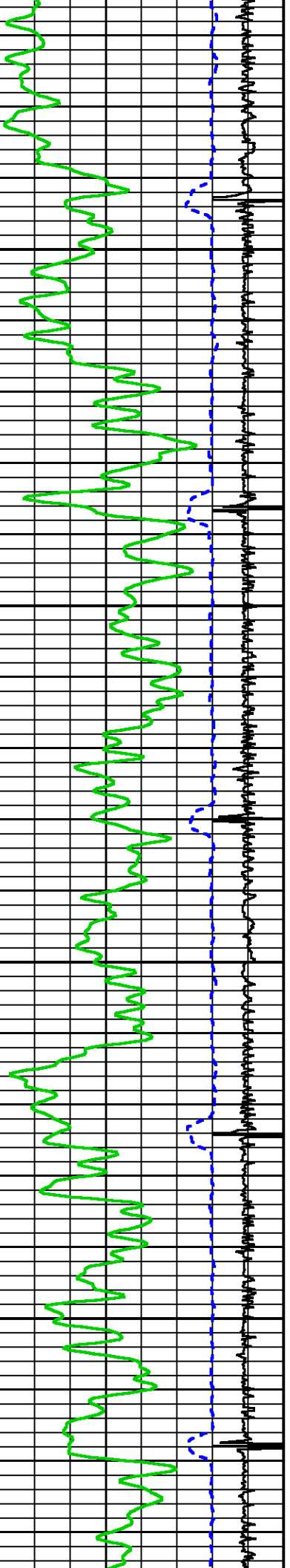
1600

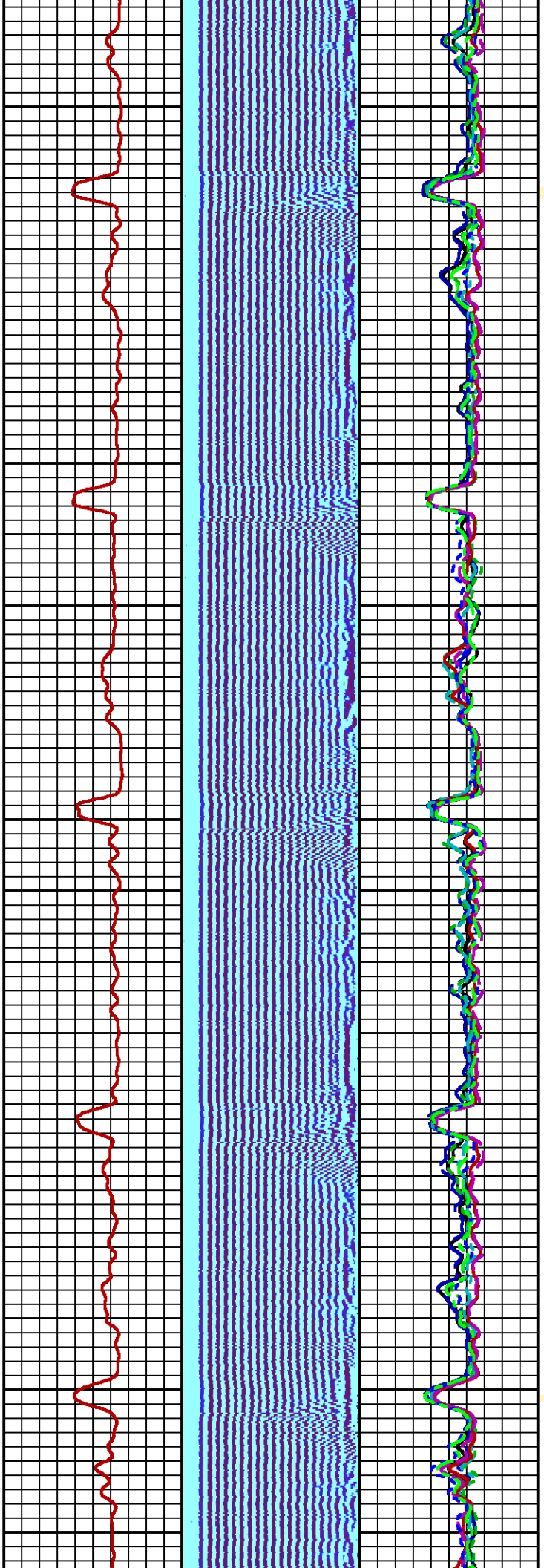




1700

1800

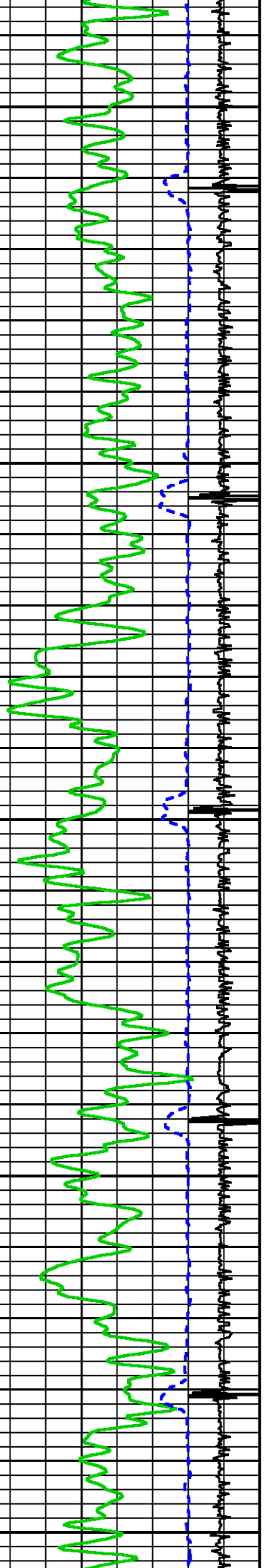


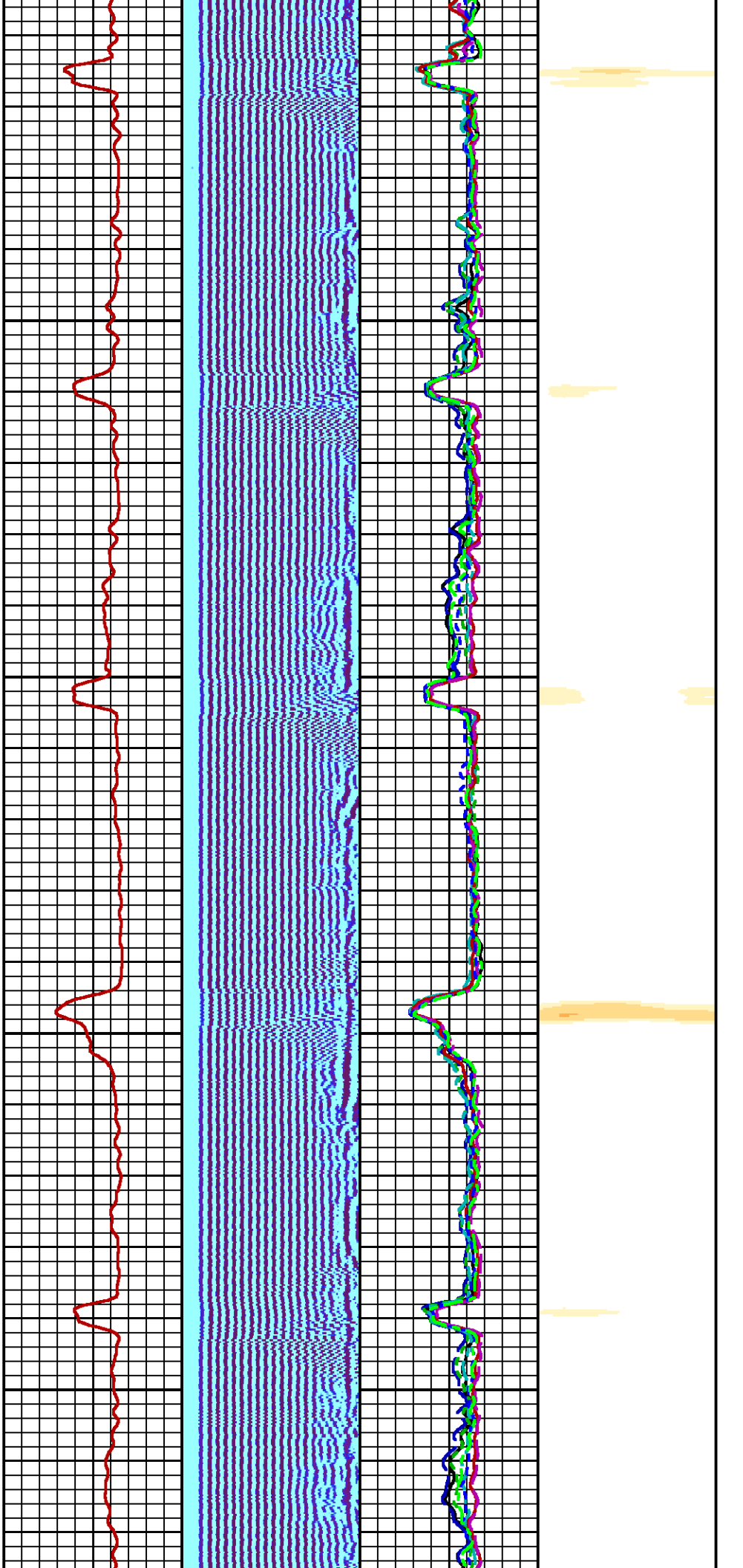


1900

2000

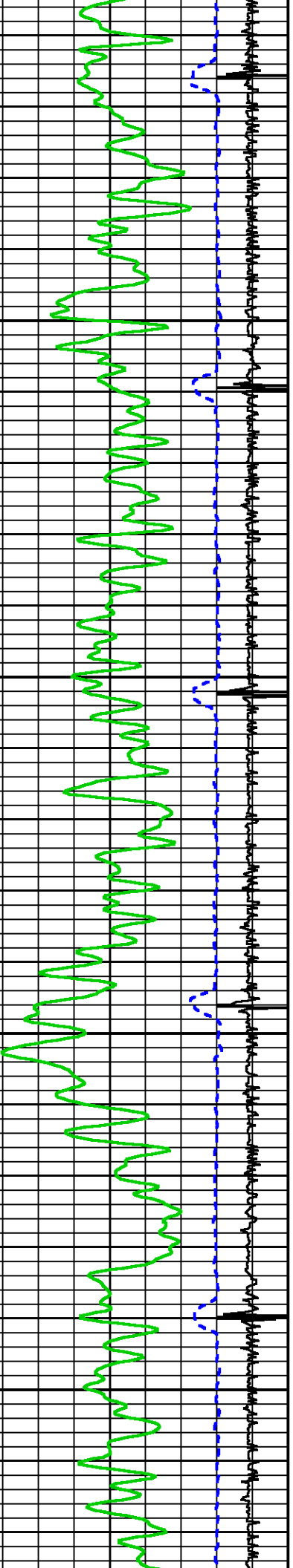
2100

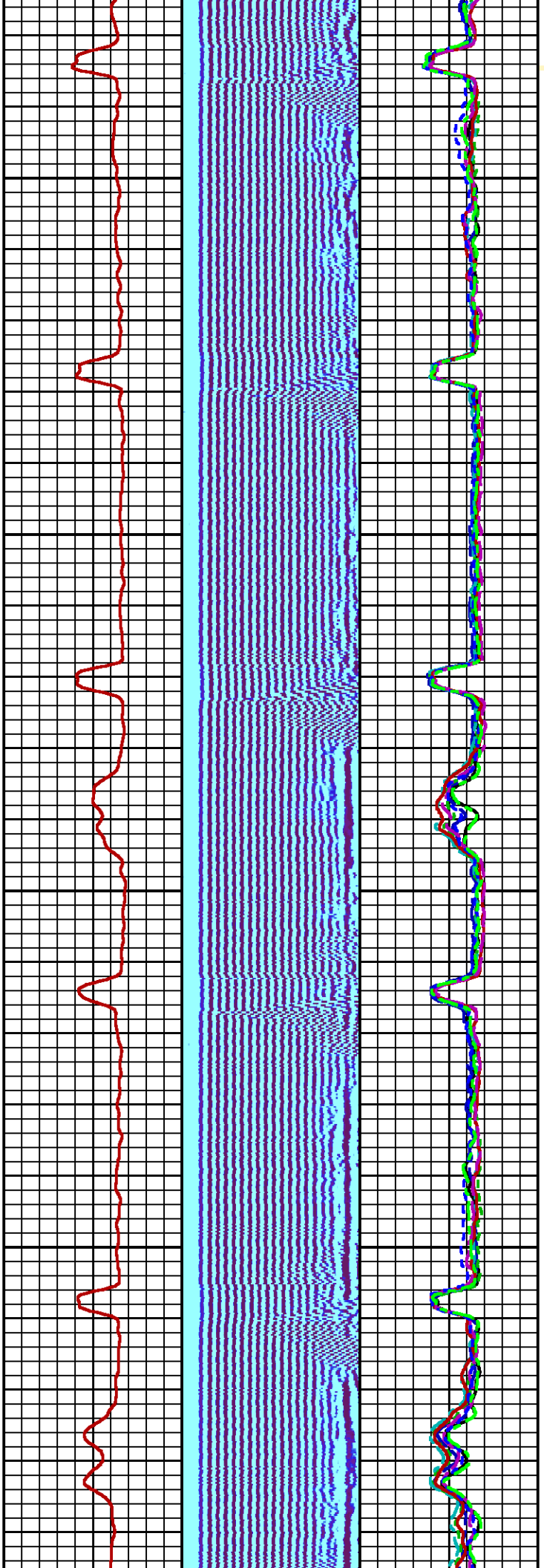




2200

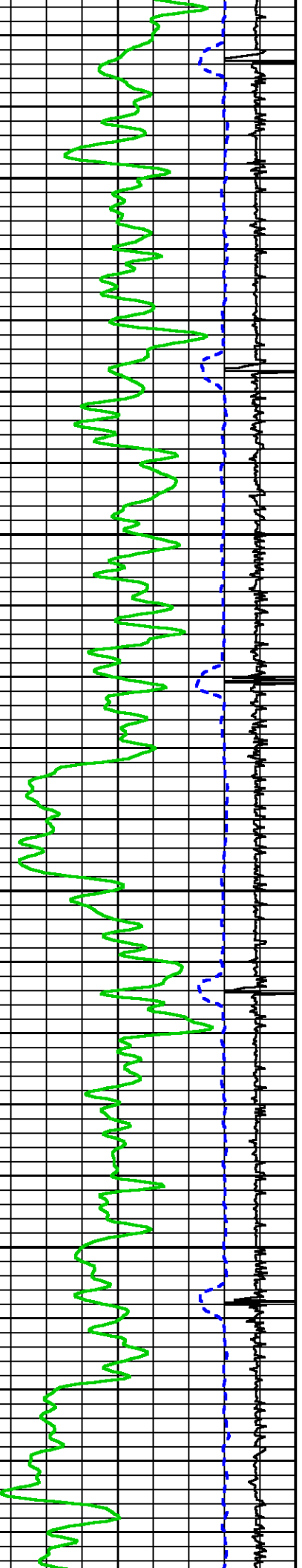
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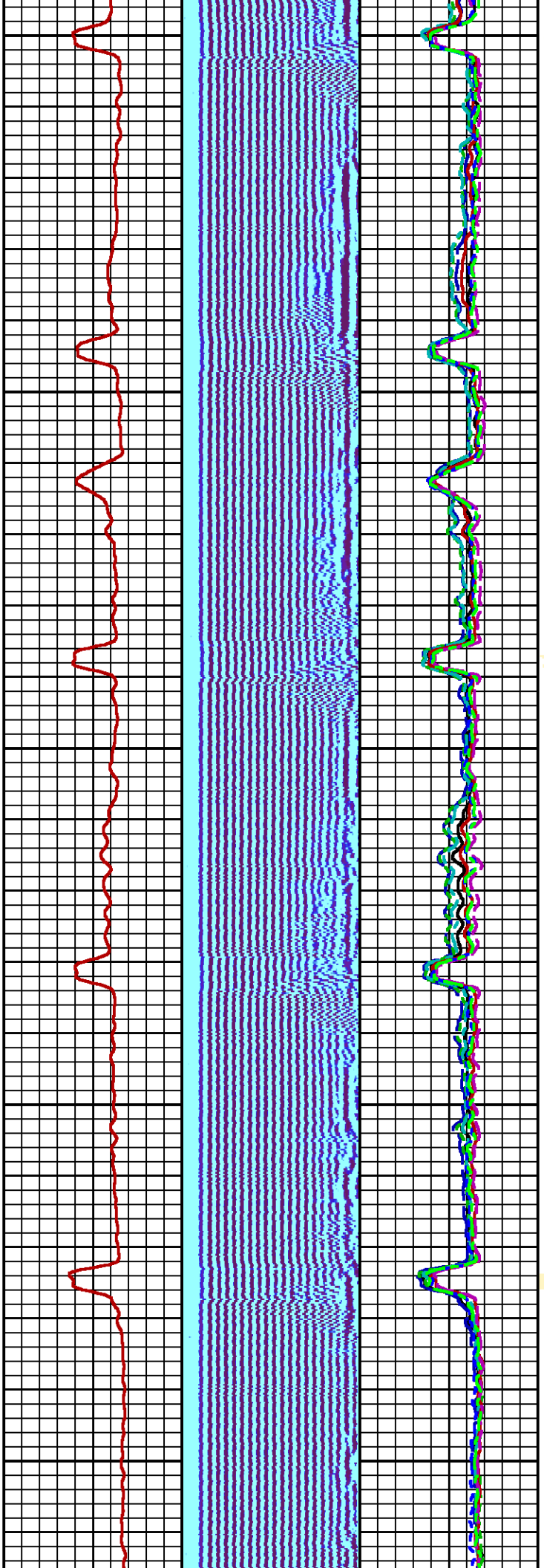




2400

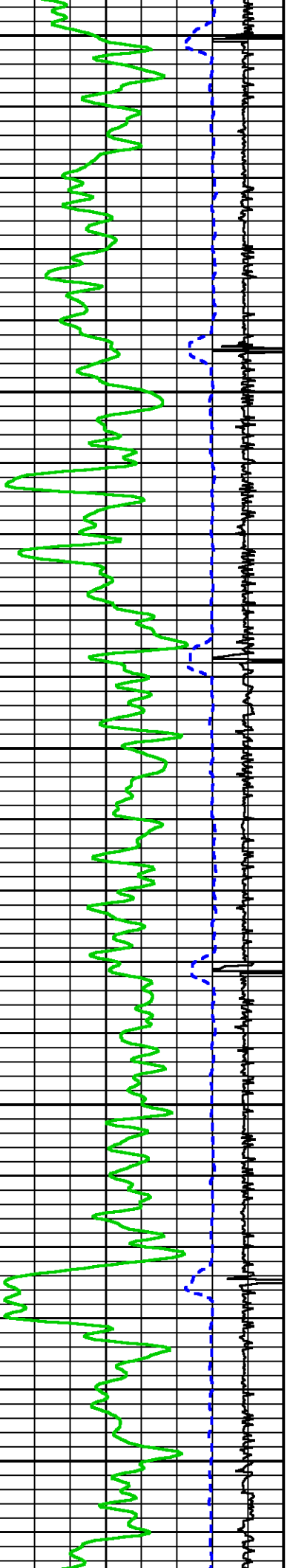
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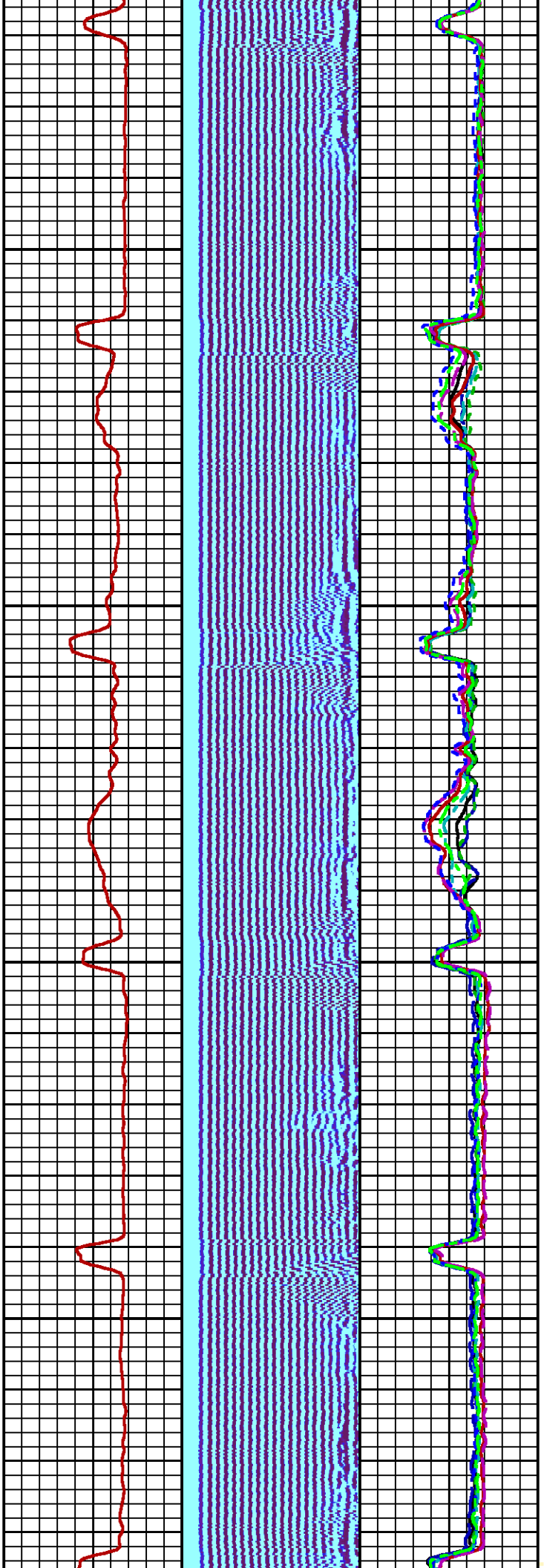




2600

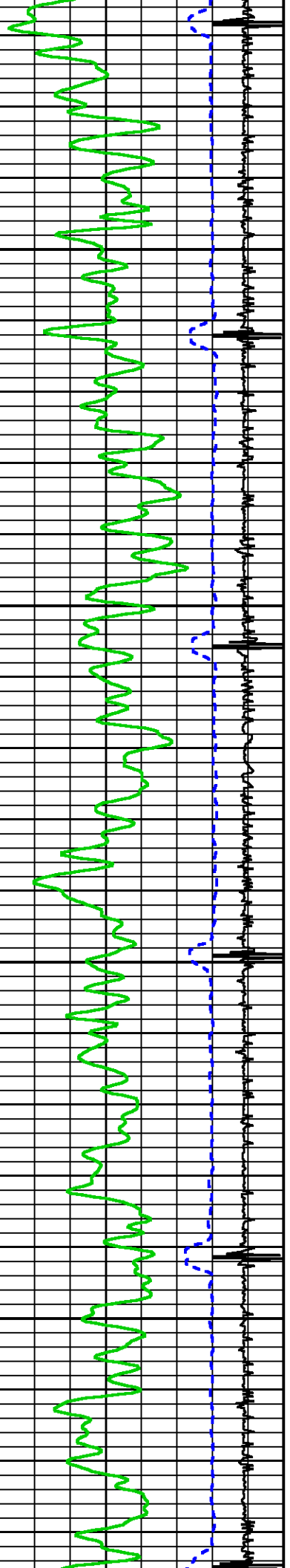
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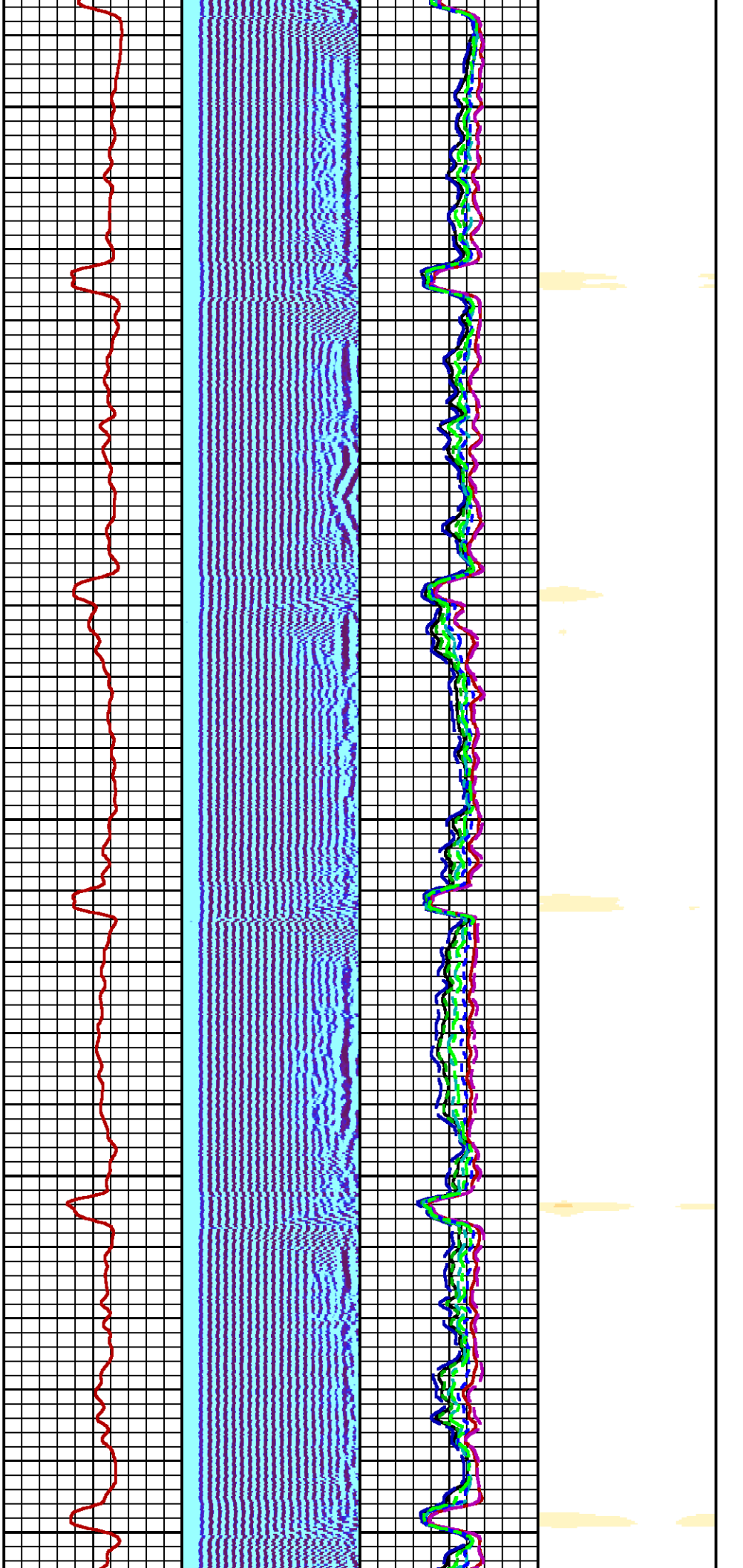




2800

2900

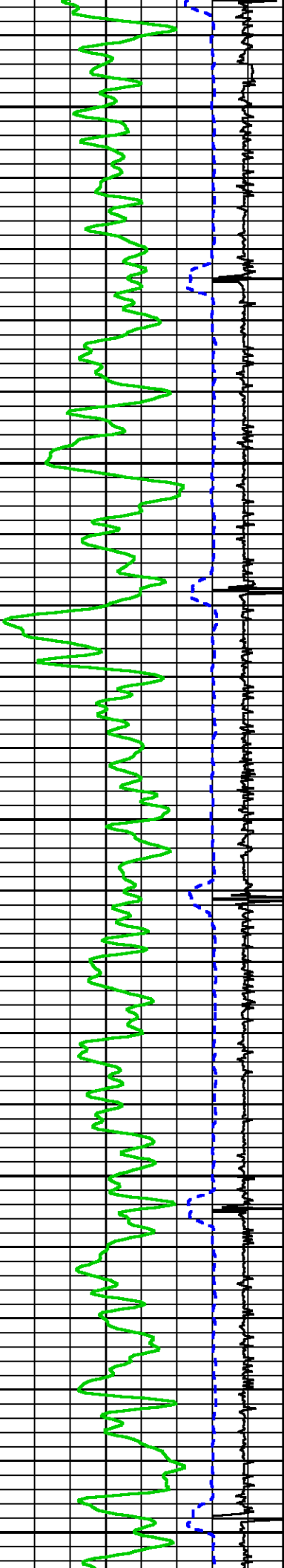


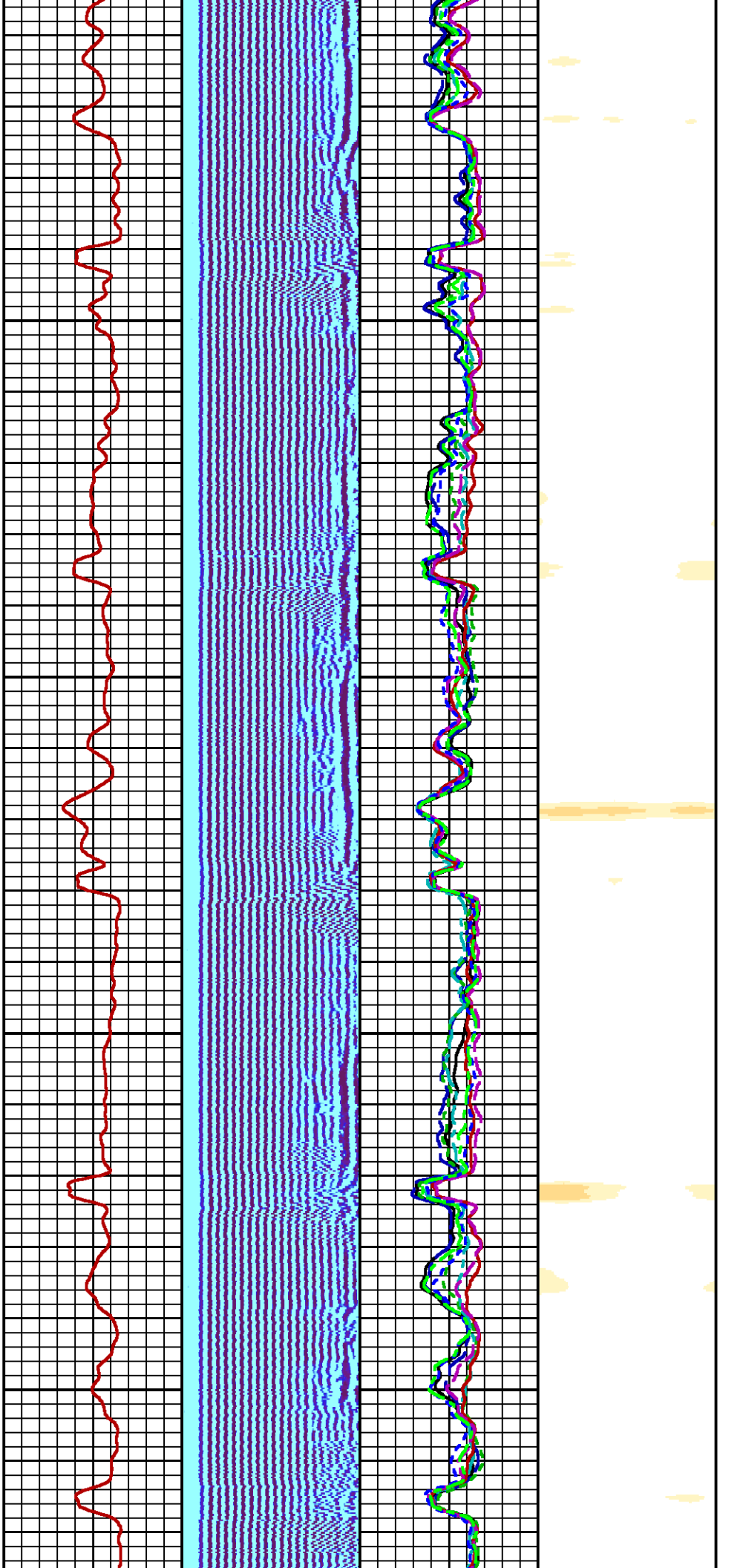


3000

3100

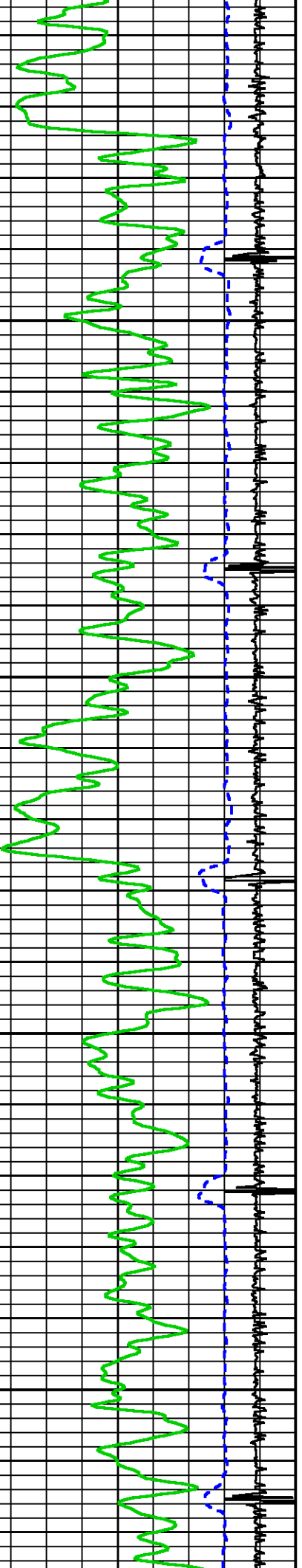
3200

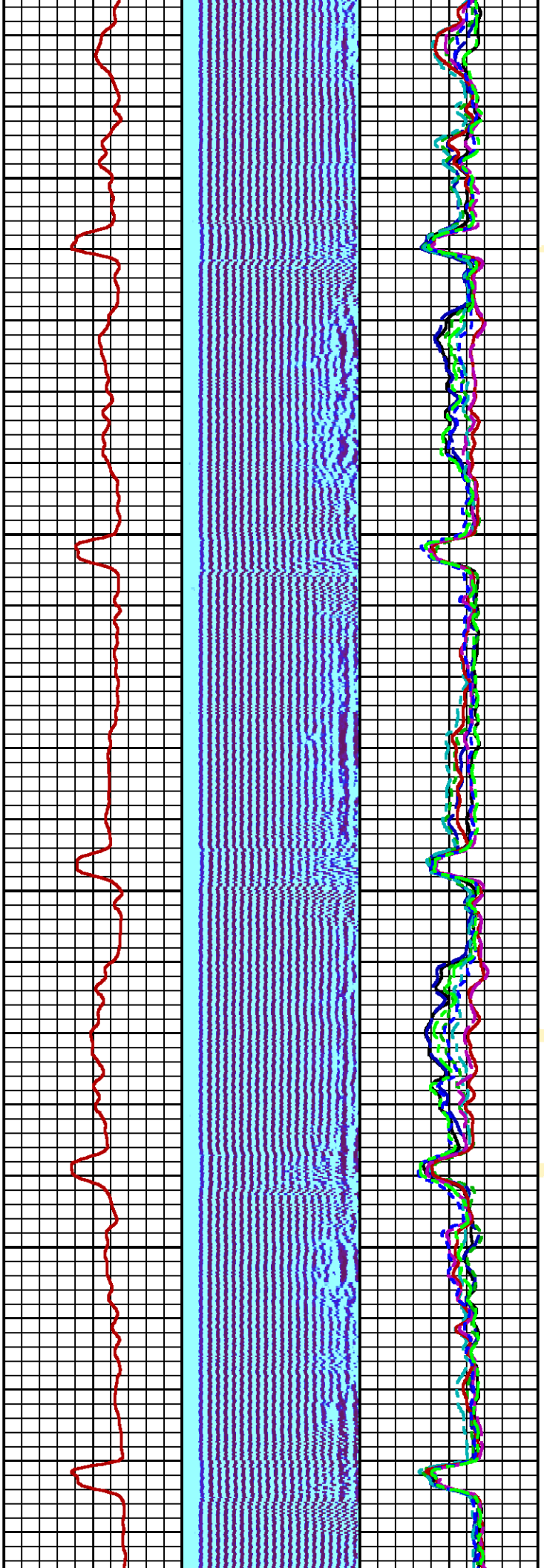




3300

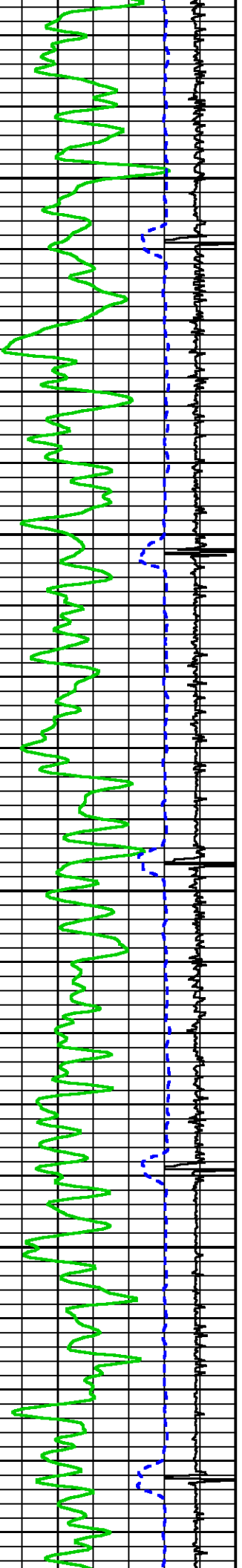
3400

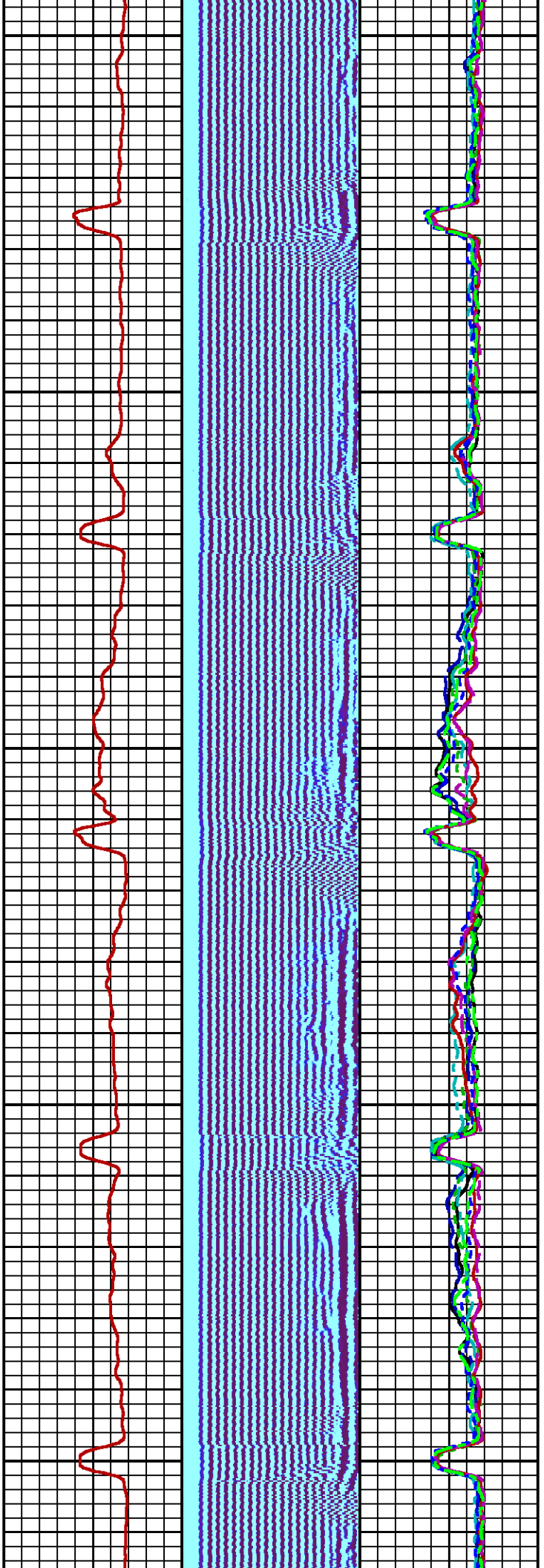




3500

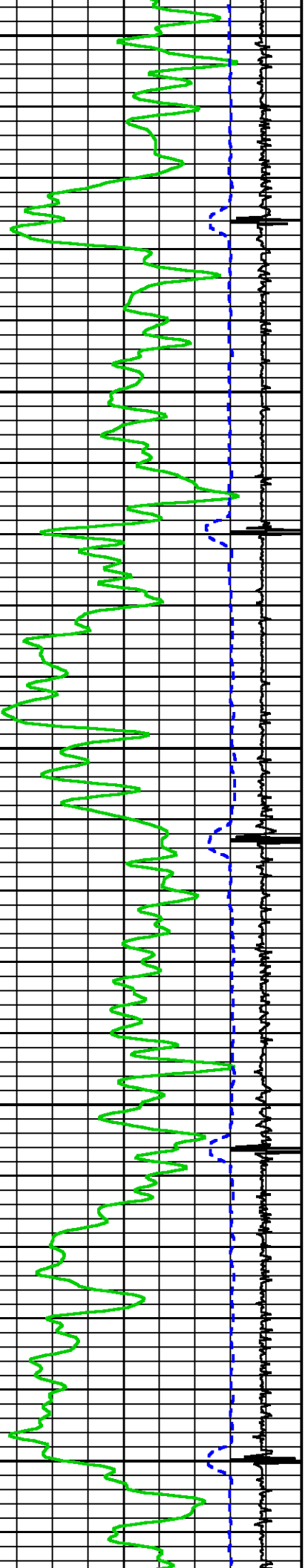
3600

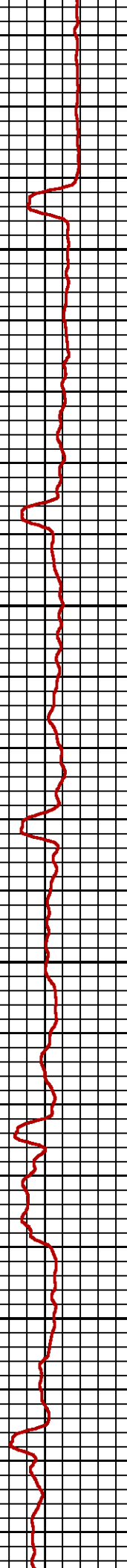
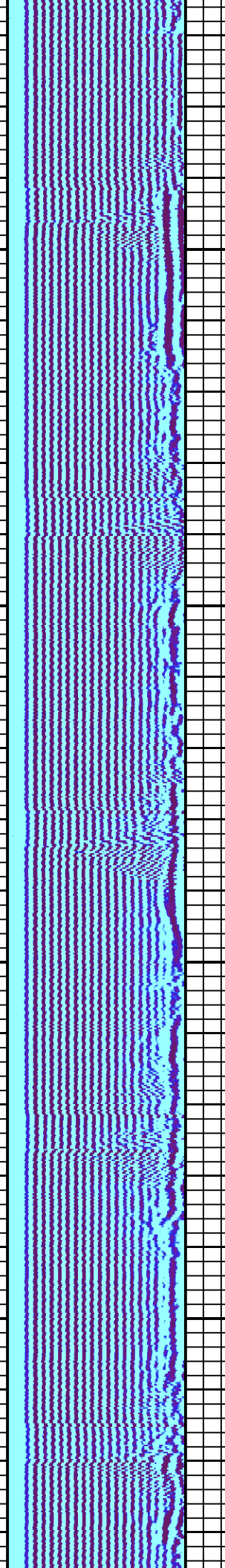
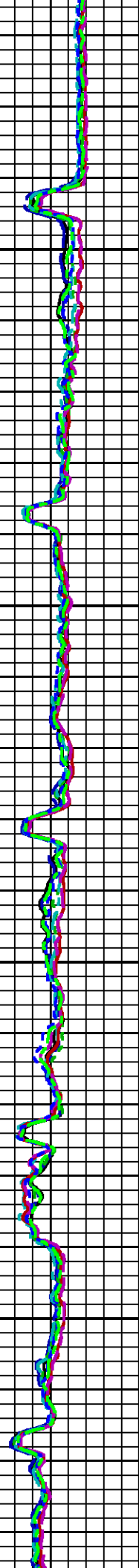
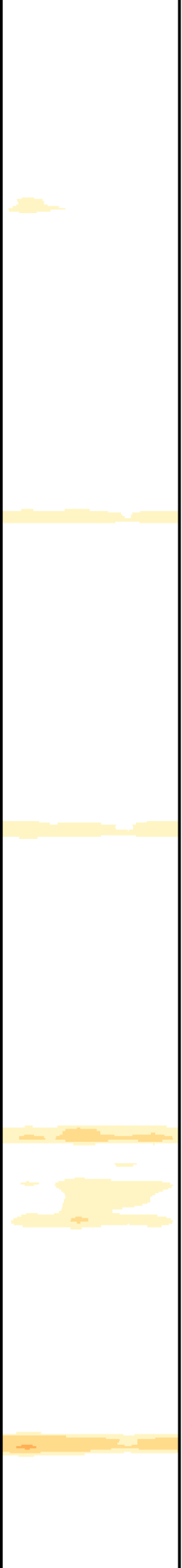




3700

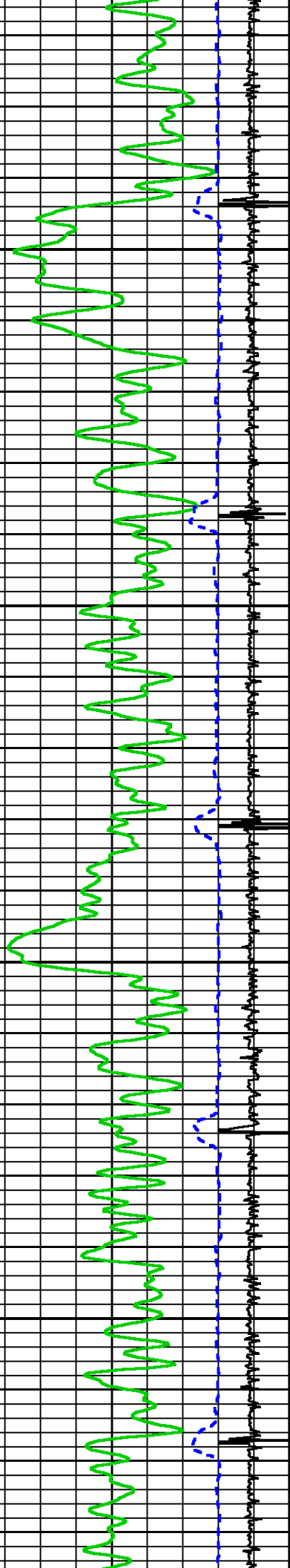
3800

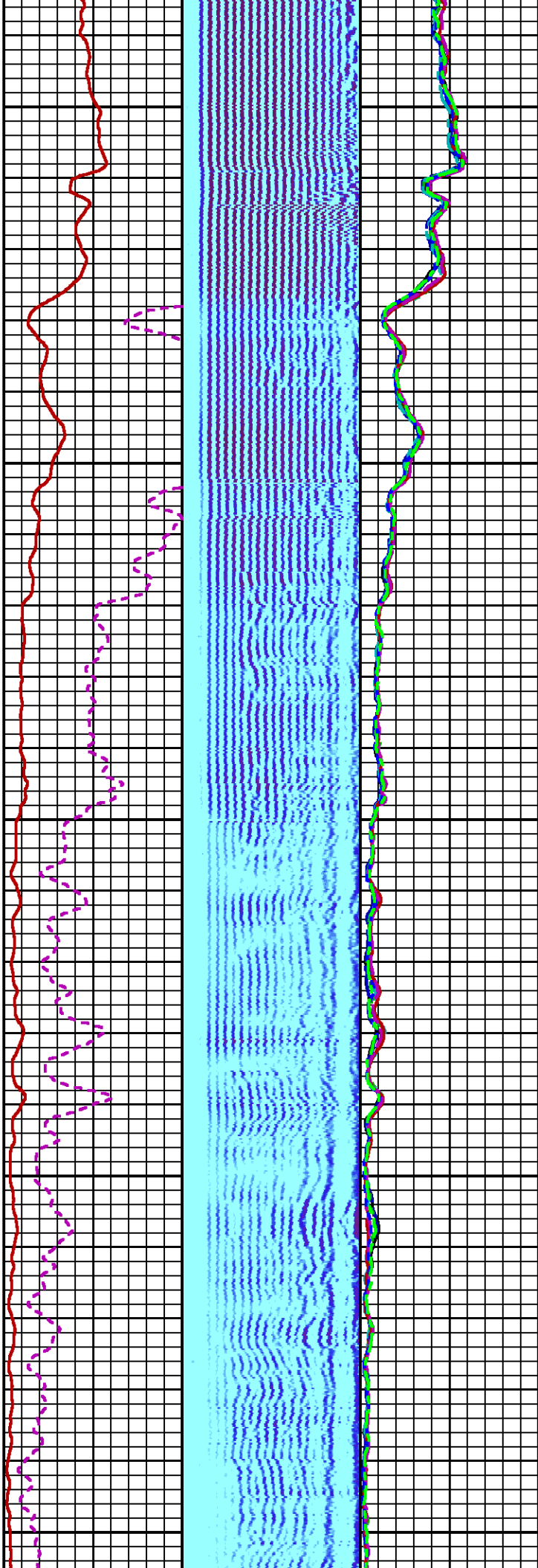




3900

4000

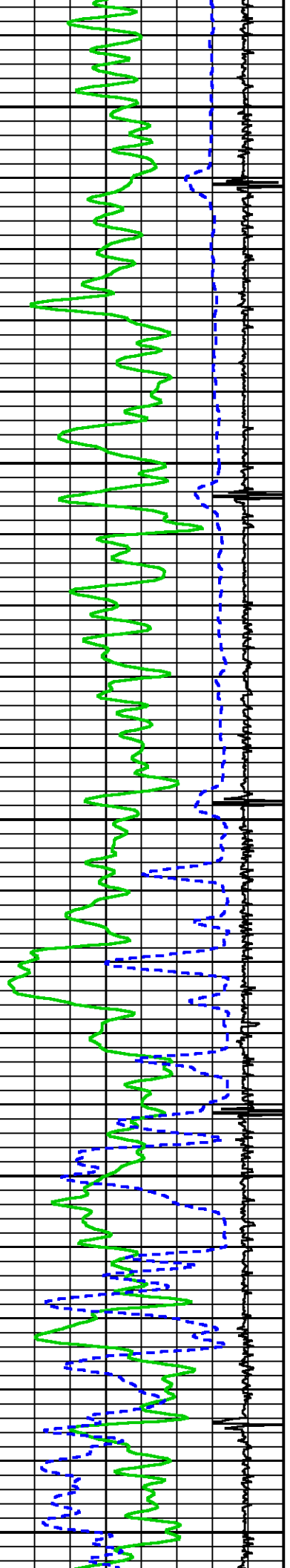


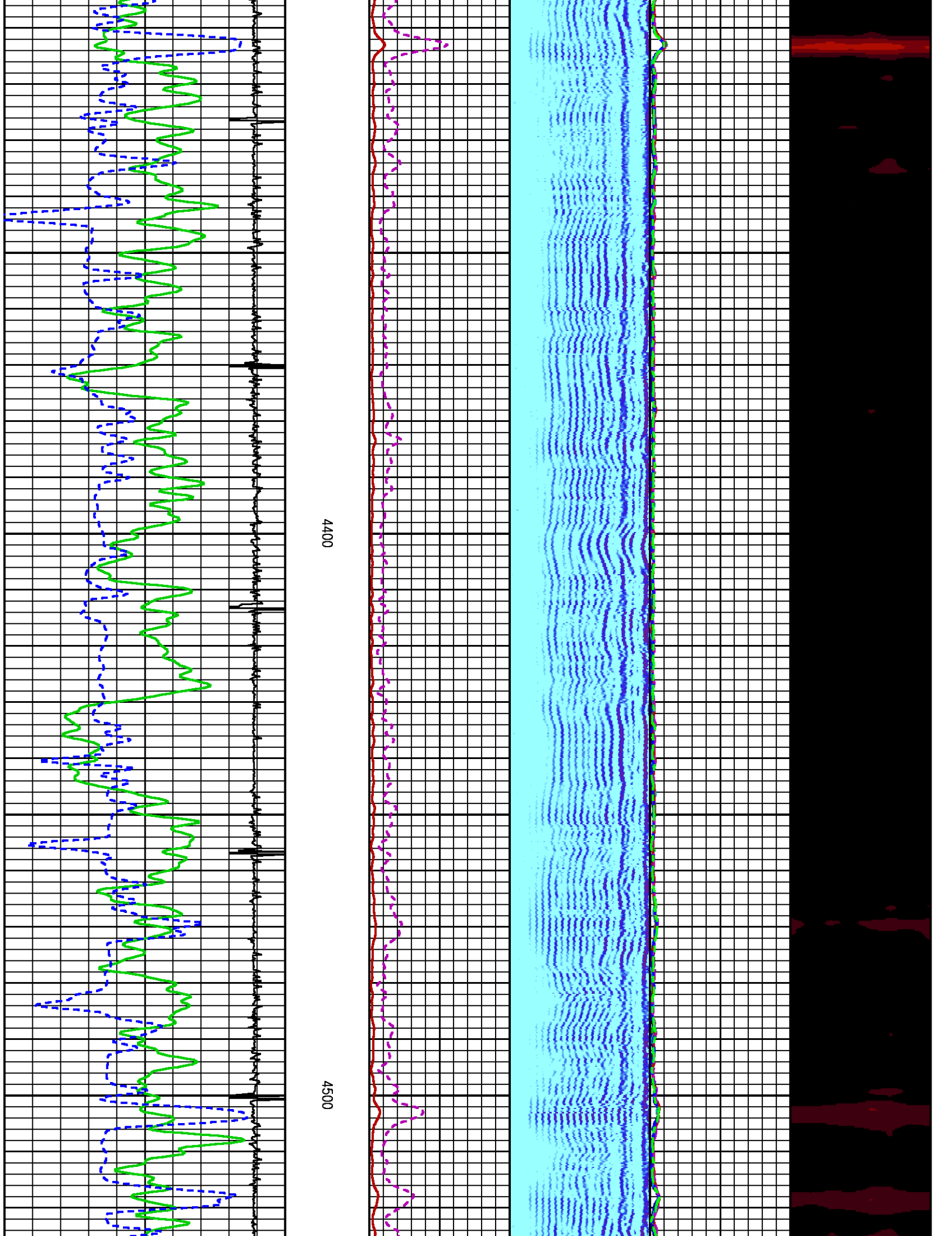


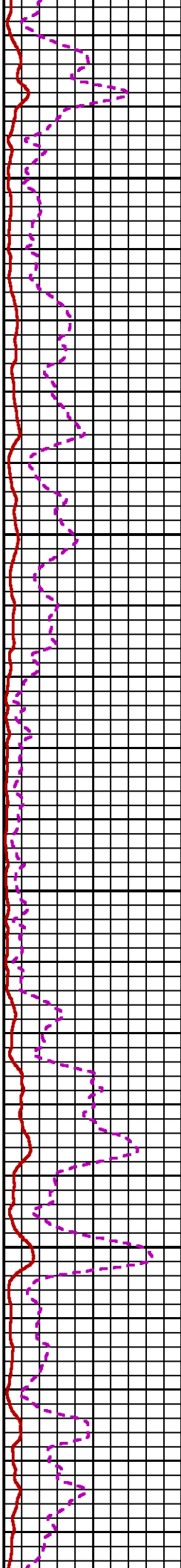
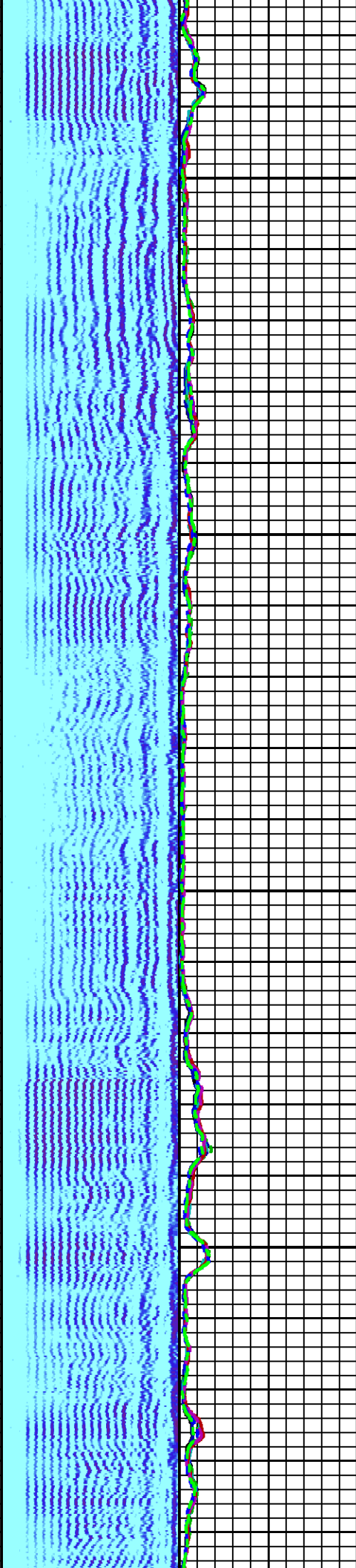
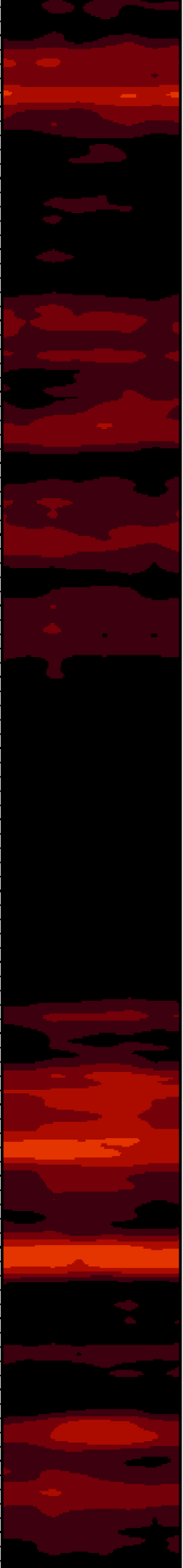
4100

4200

4300

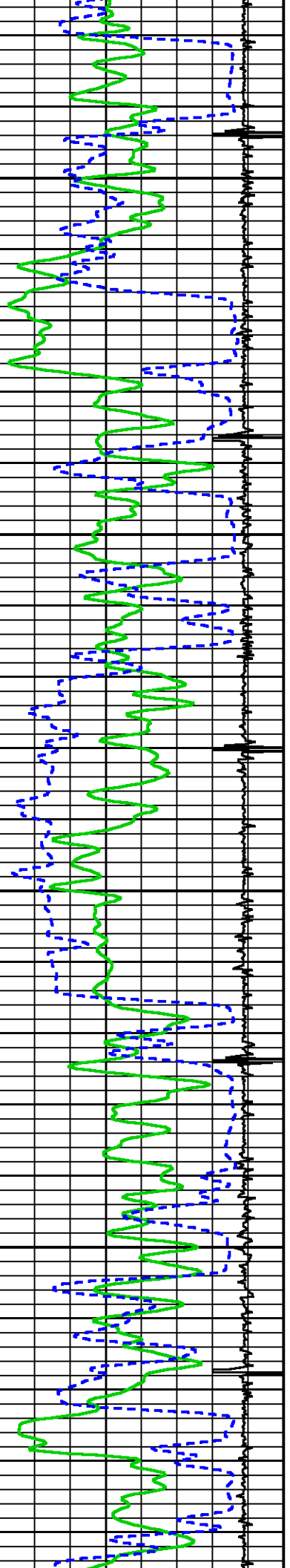


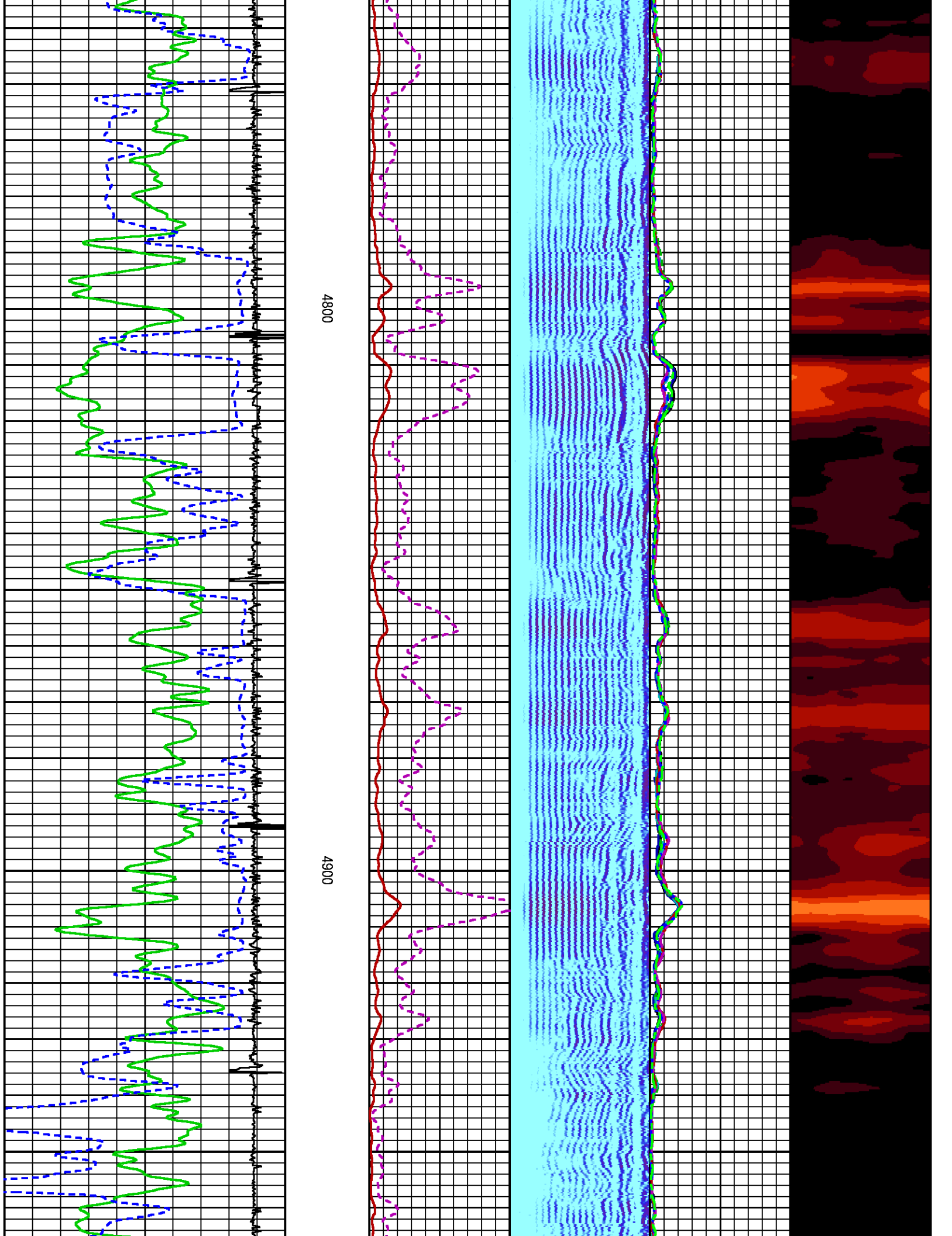


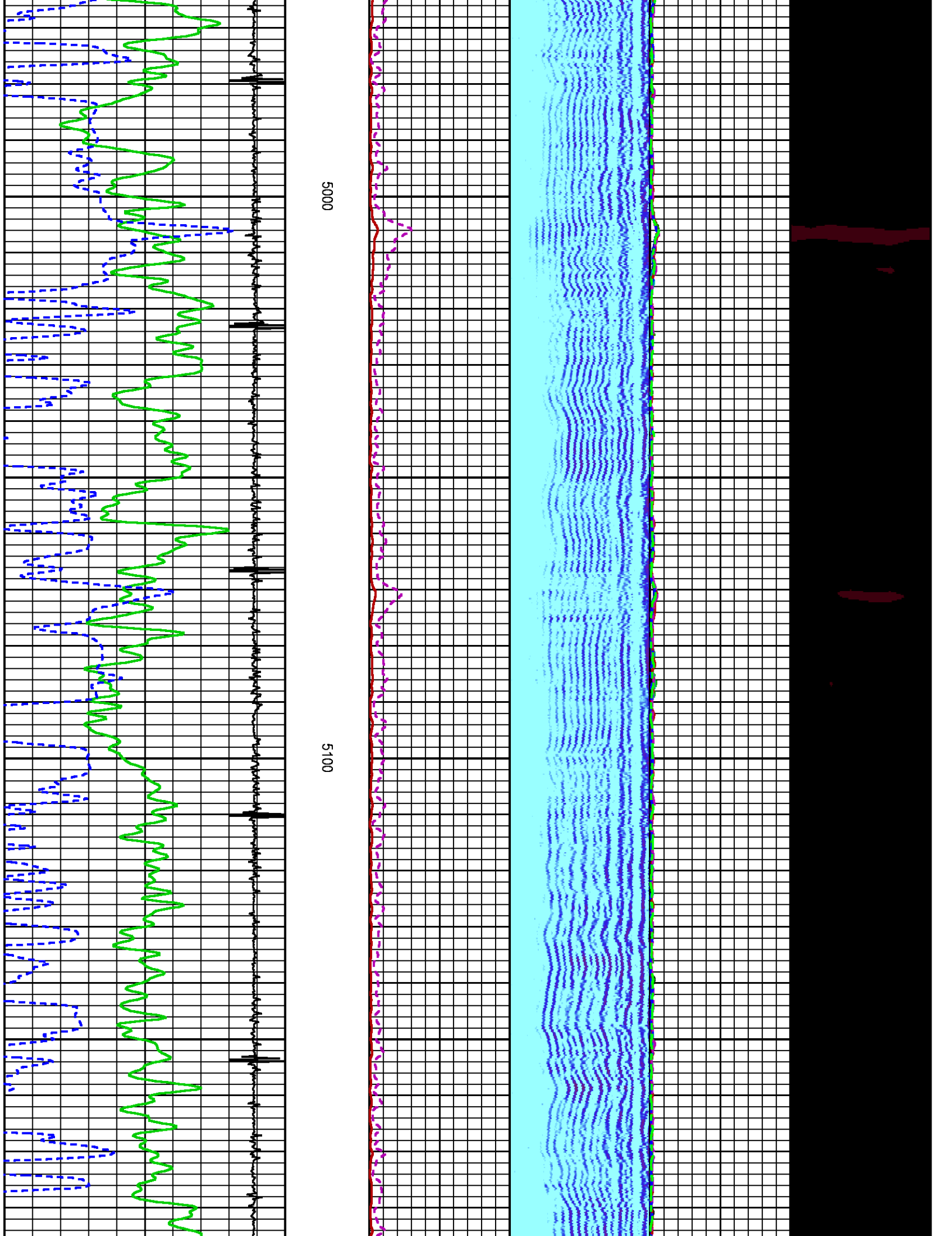


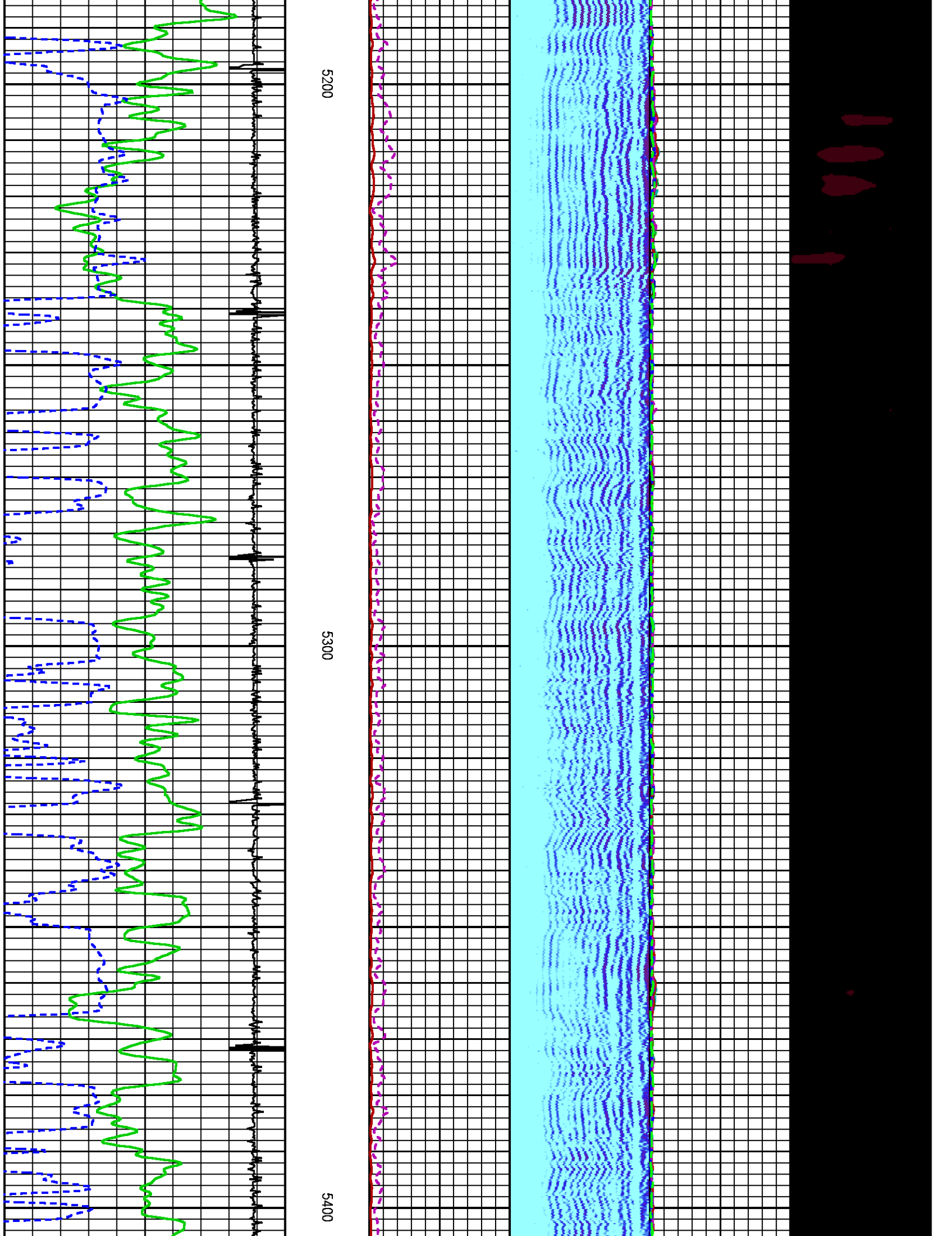
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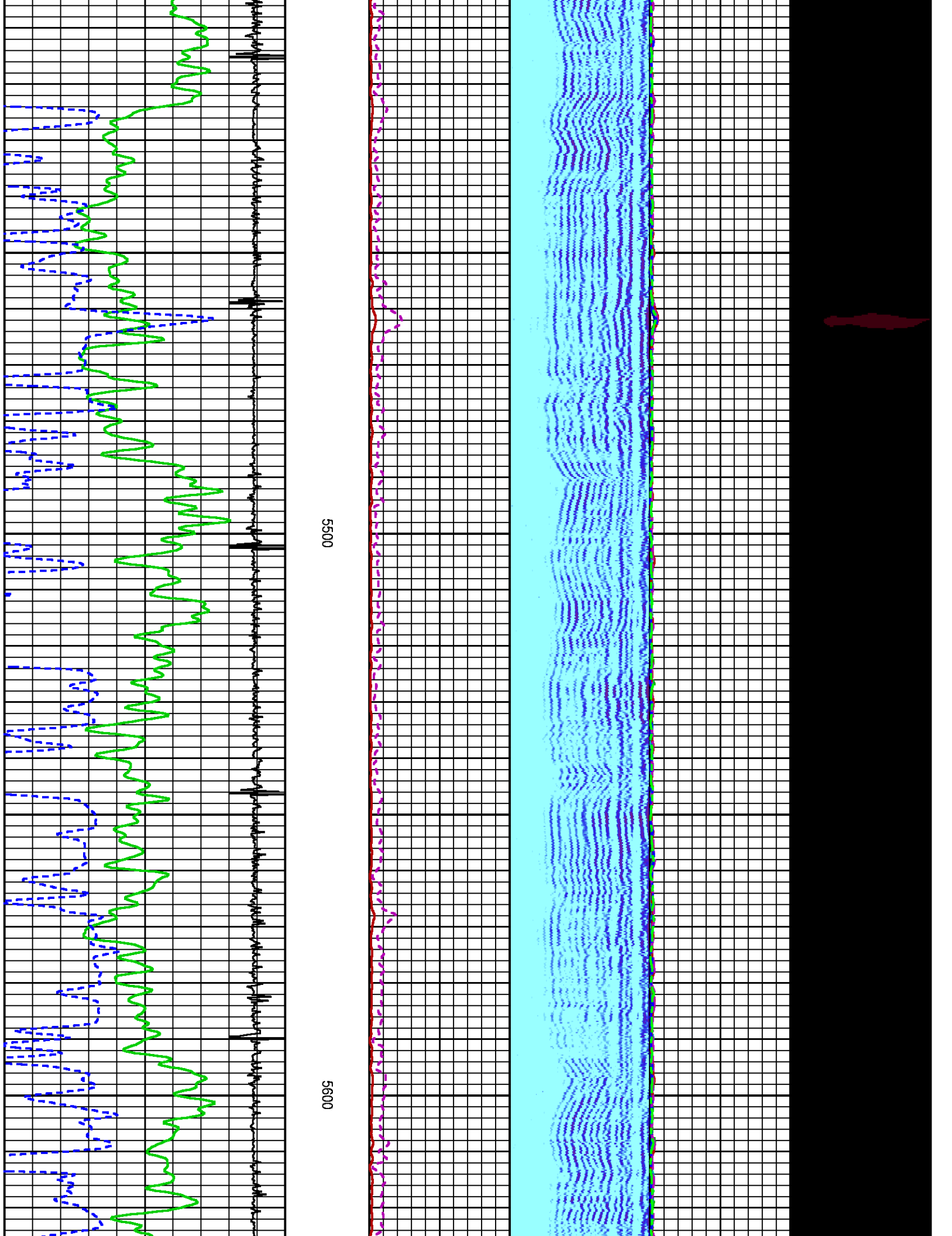
4700

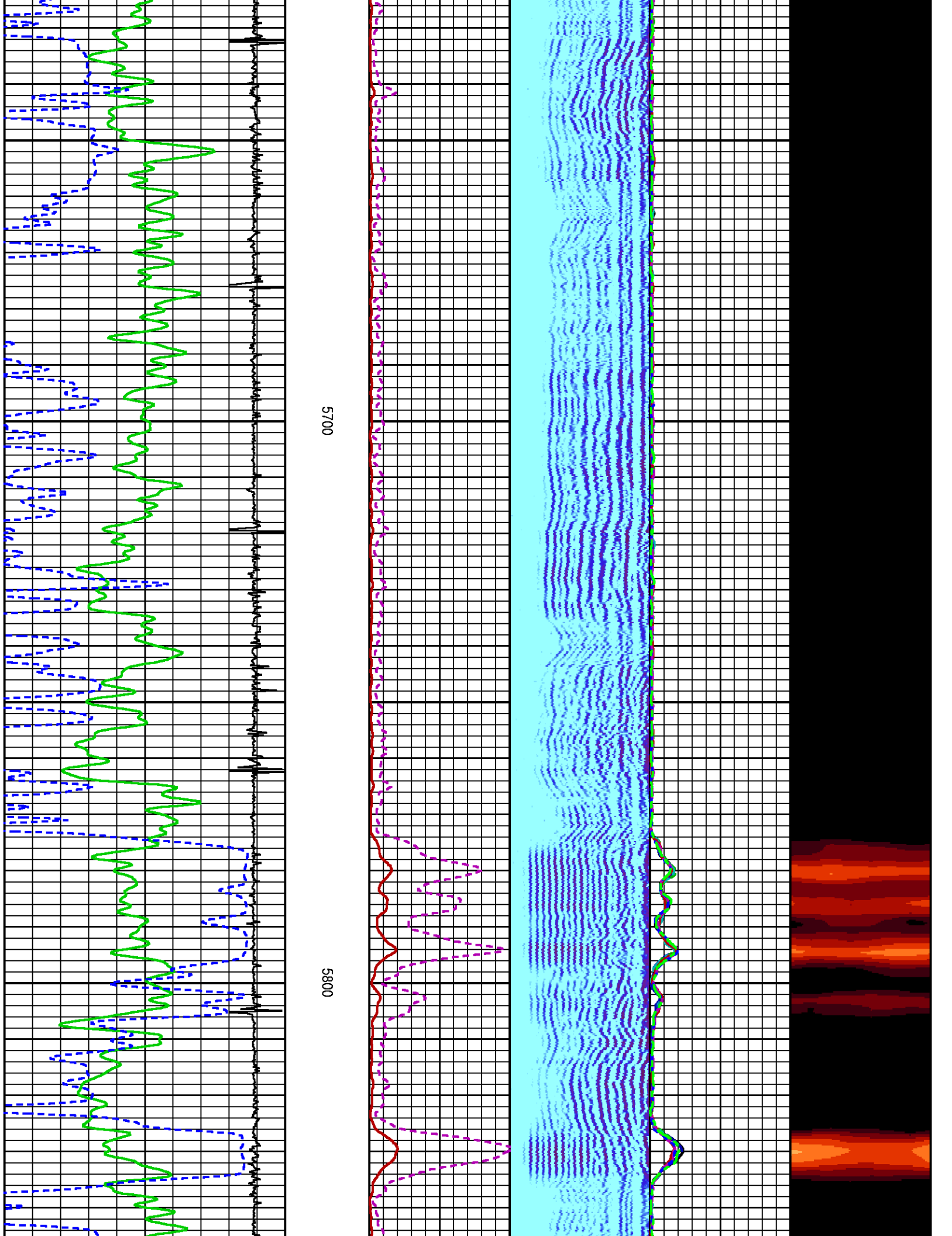


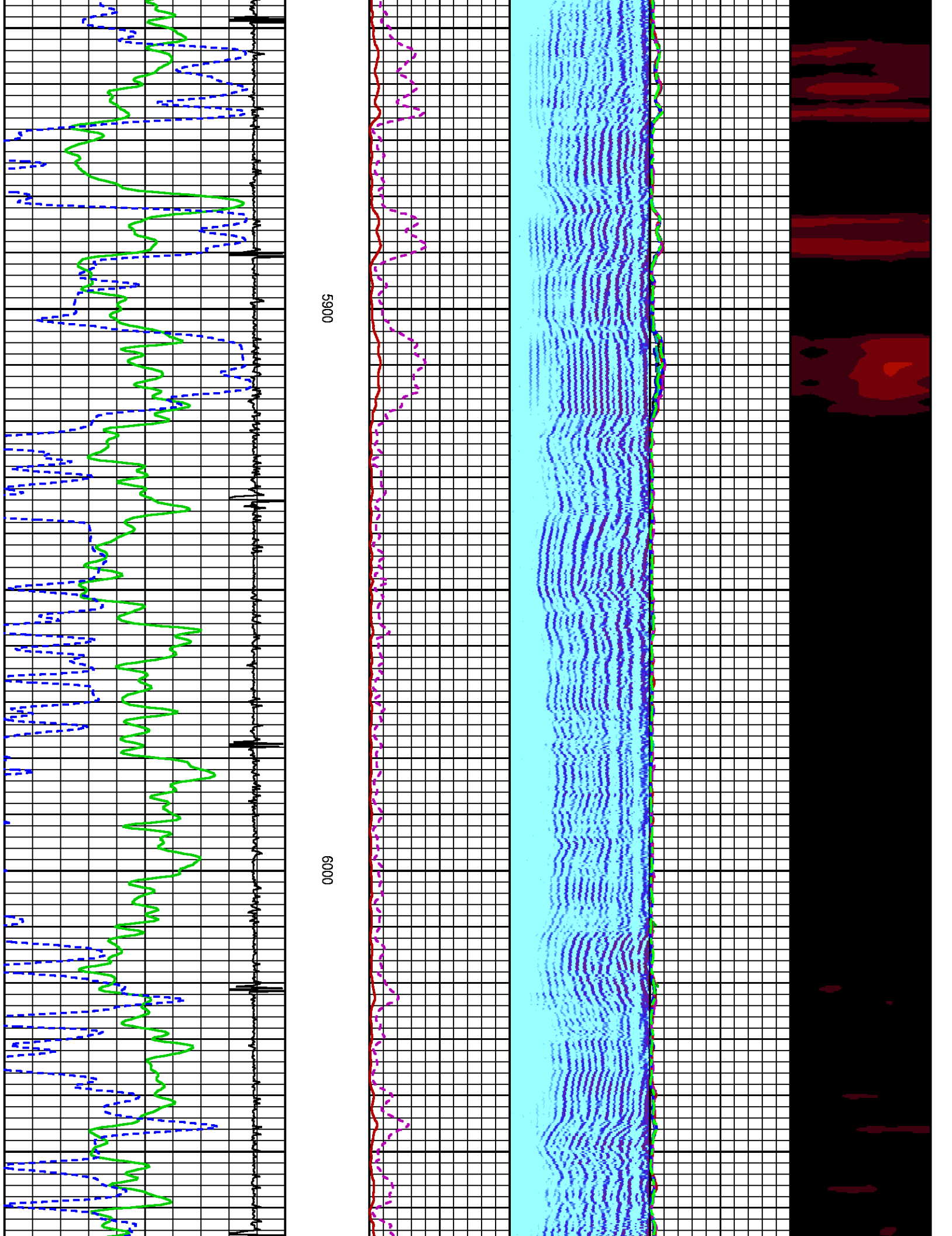


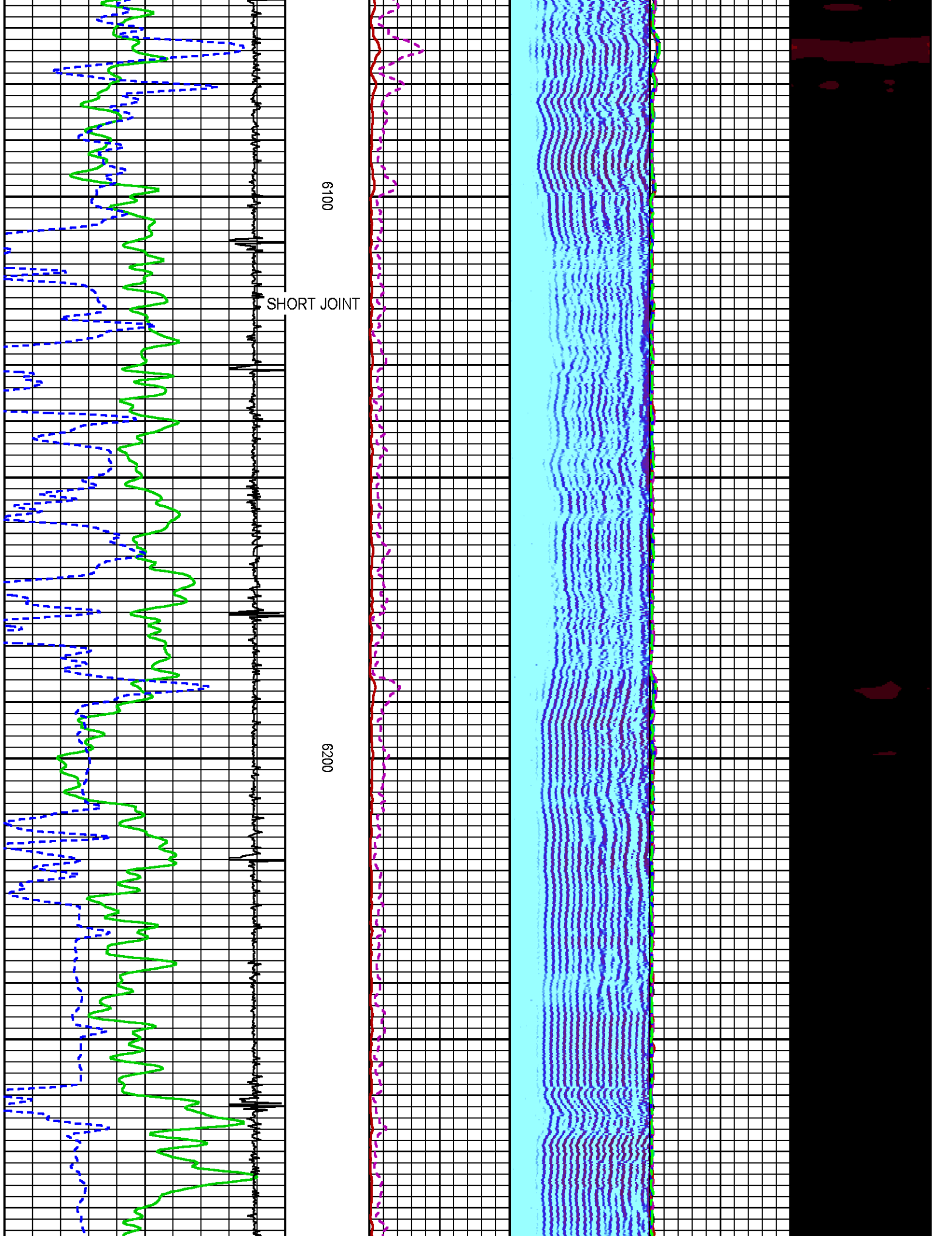


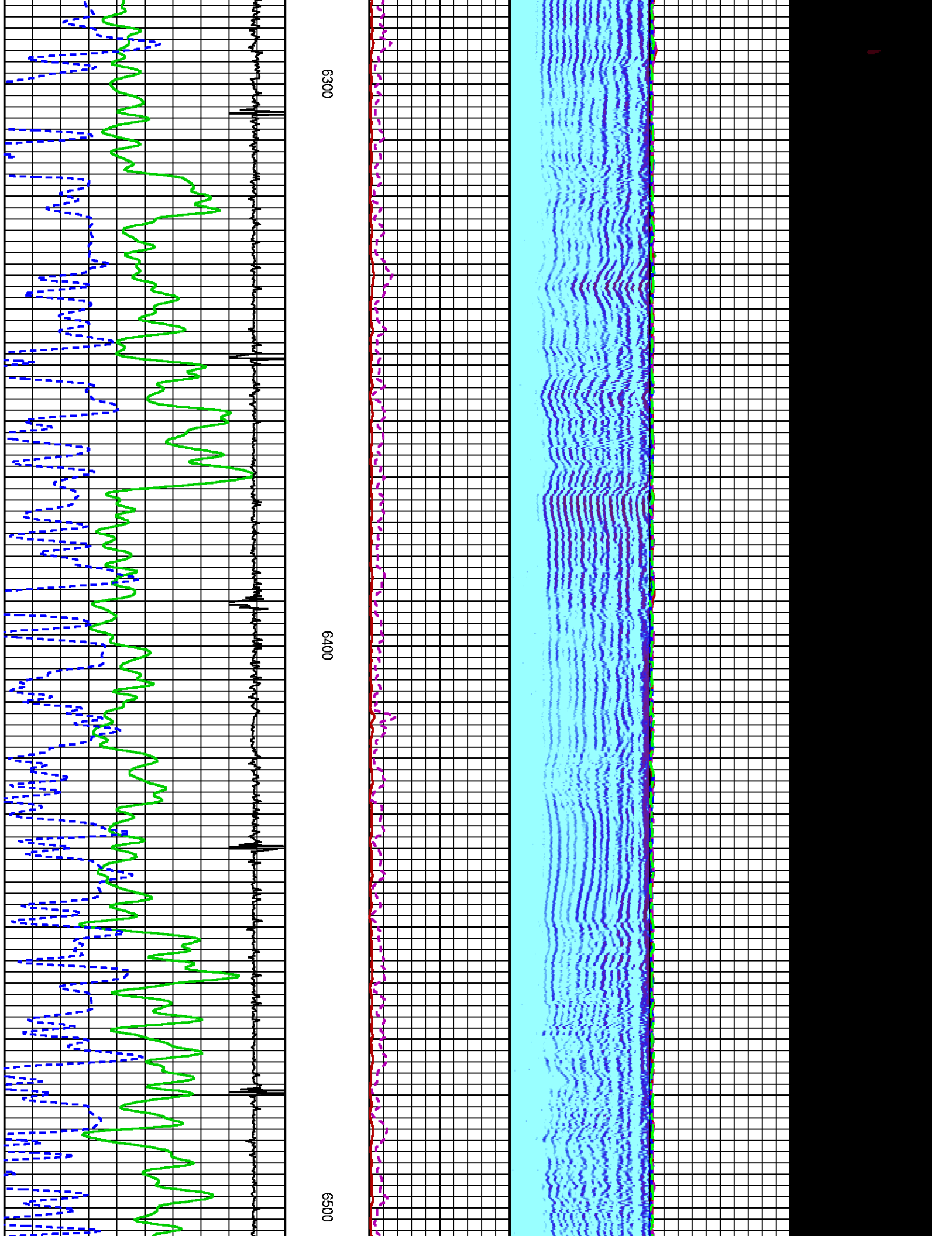


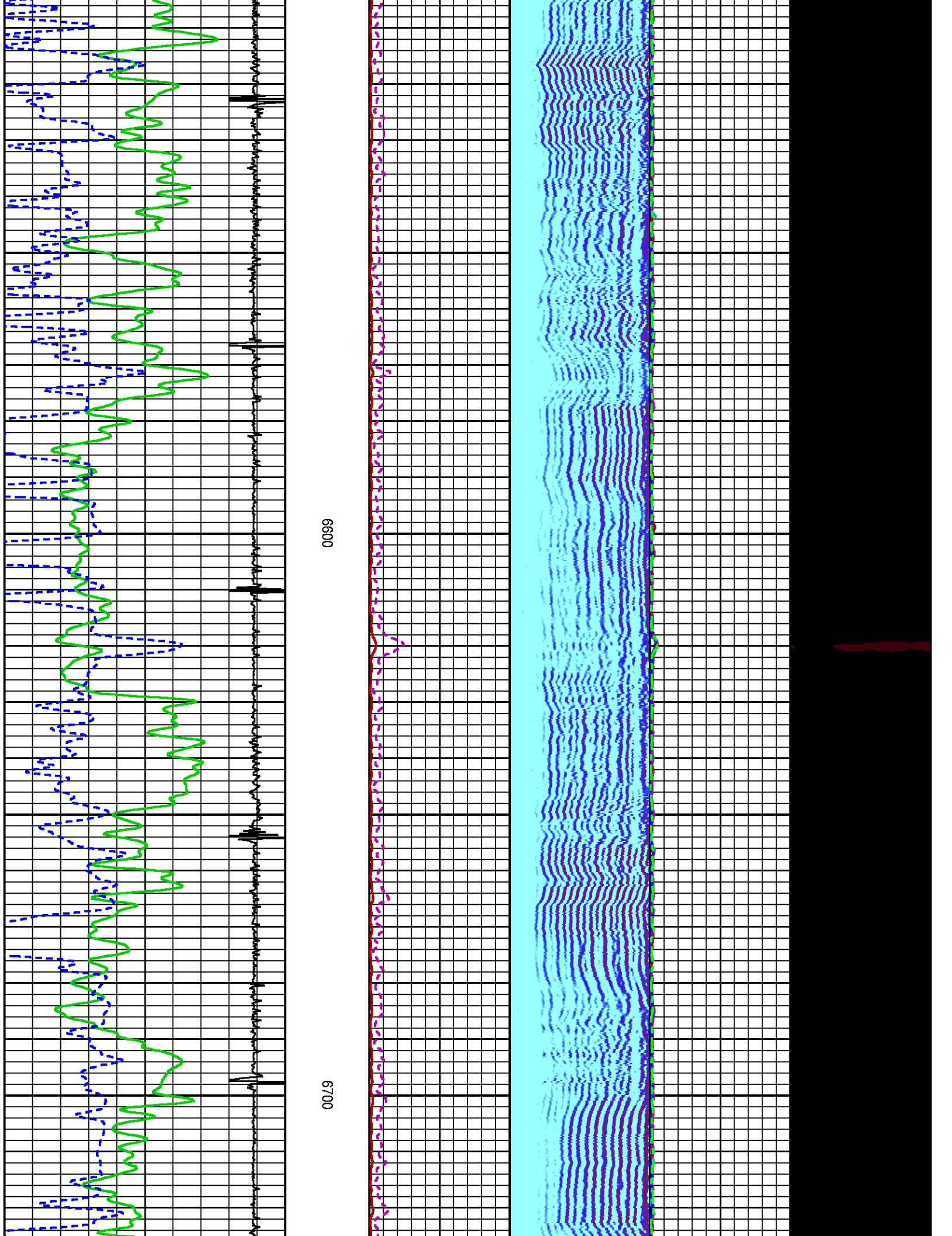






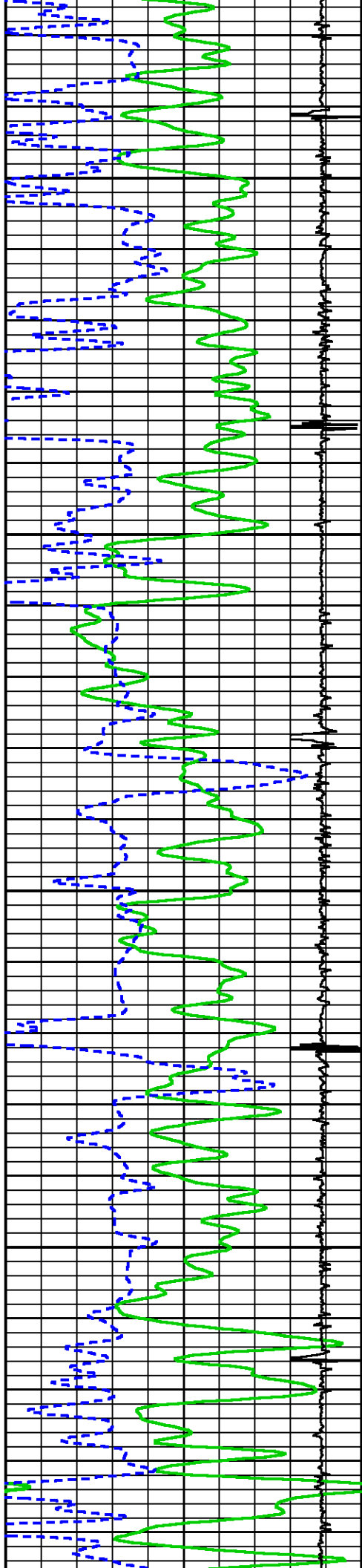






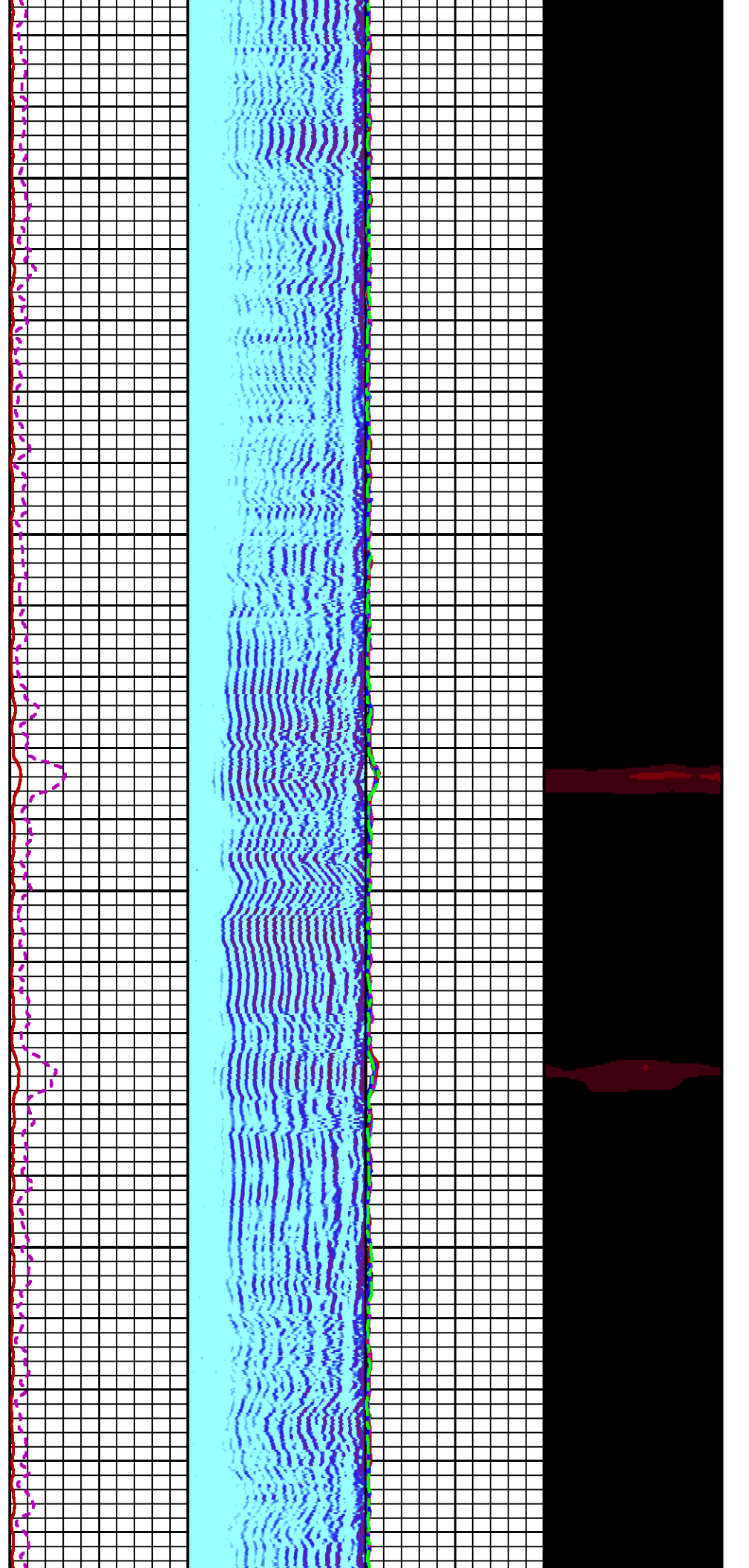
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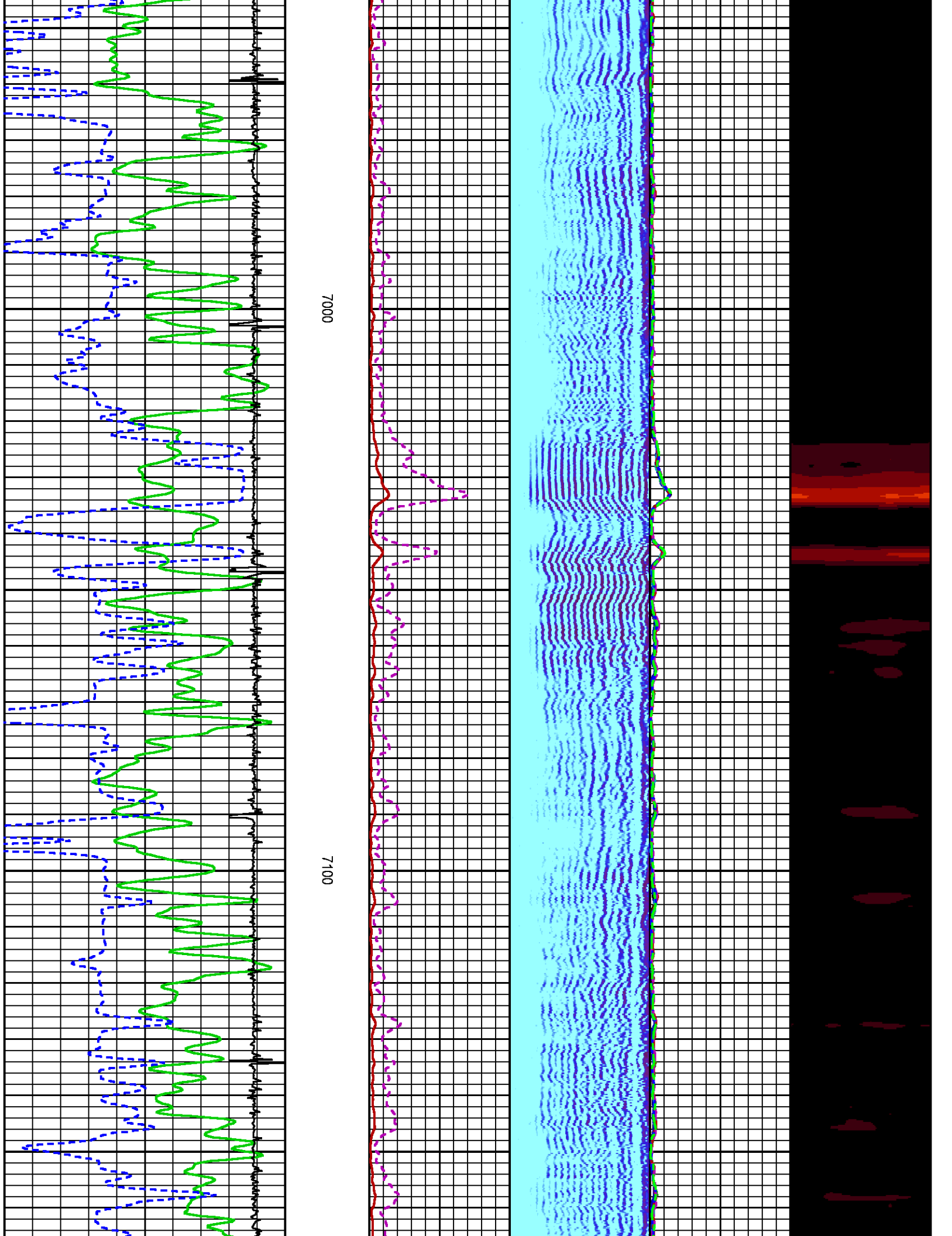
6700

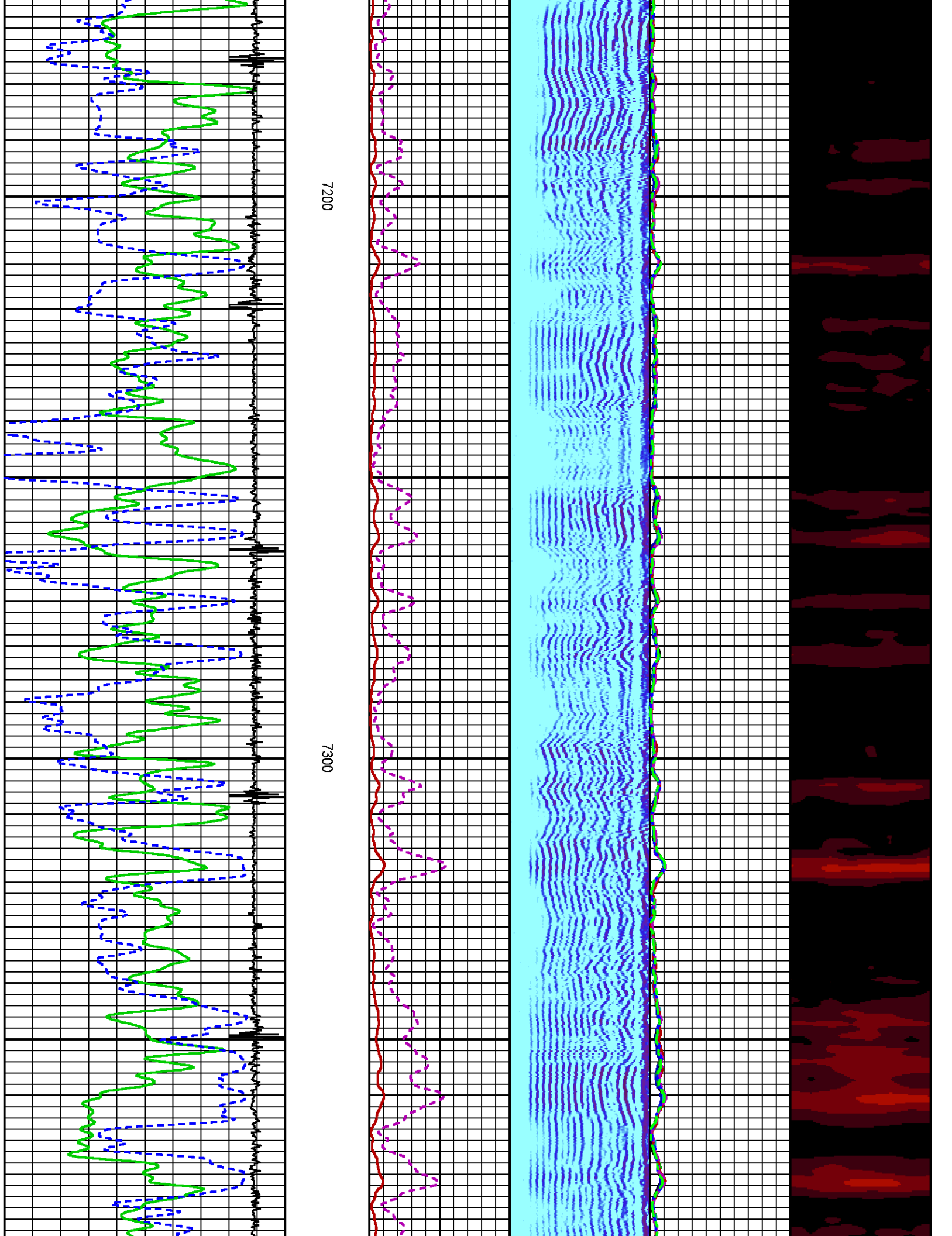


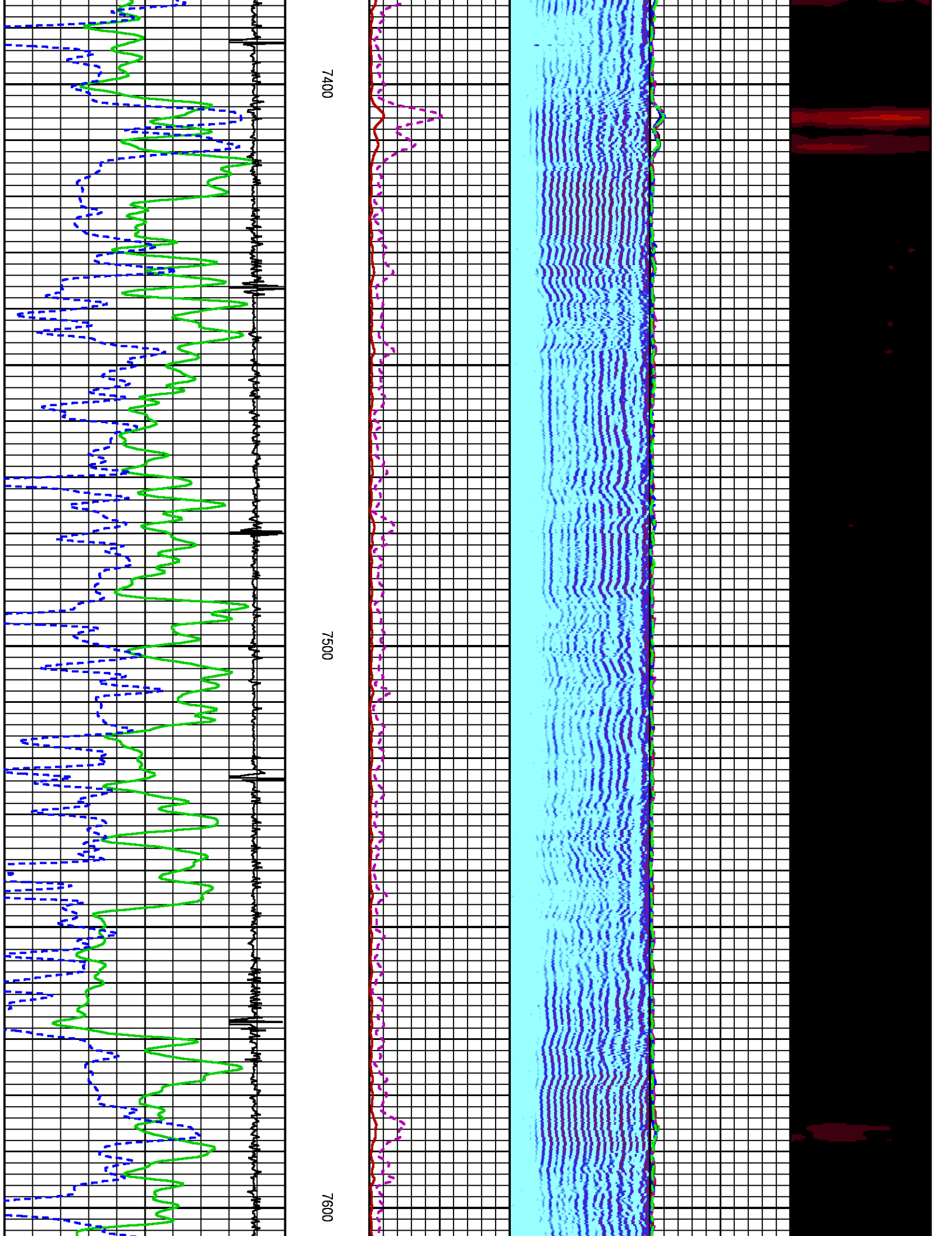
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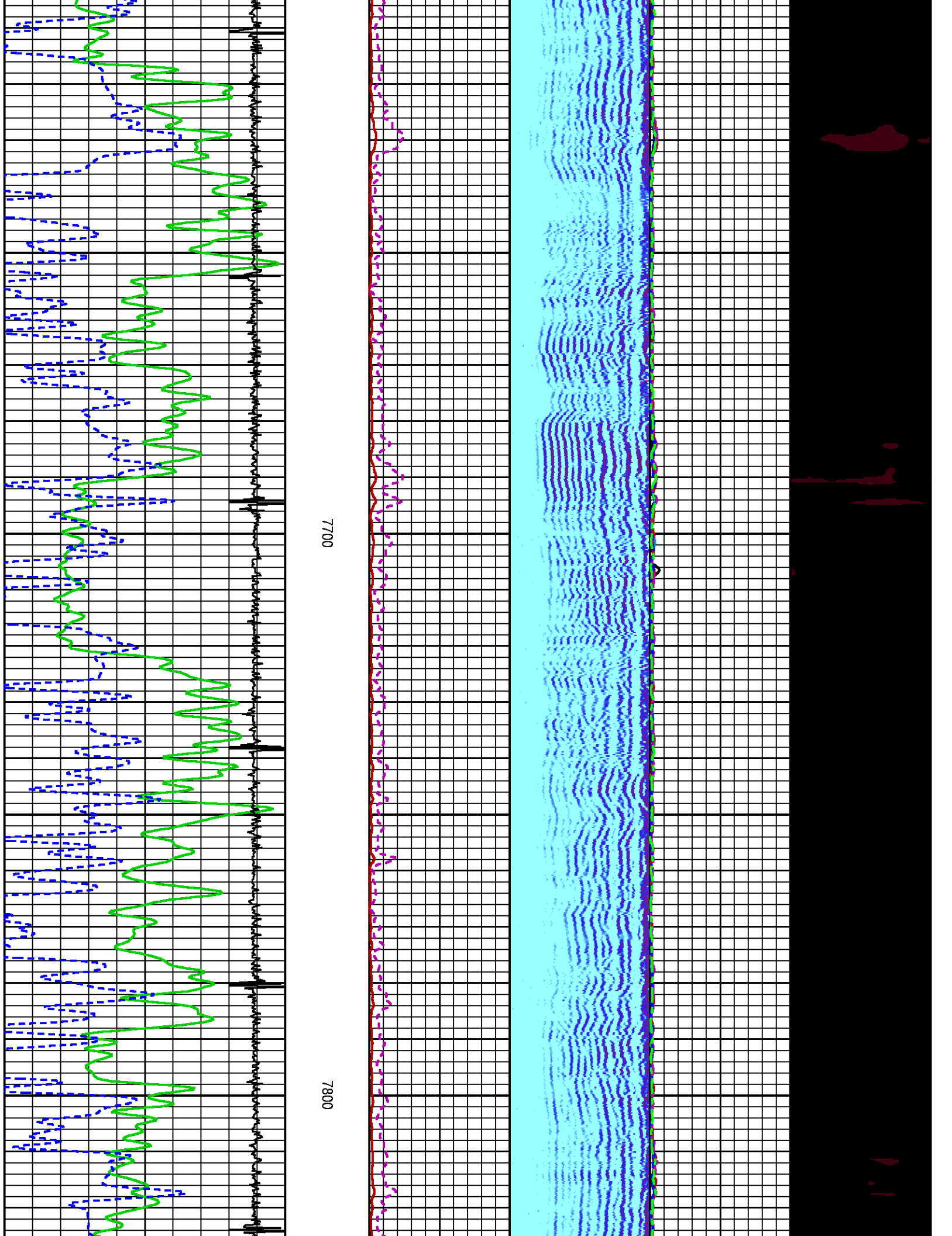
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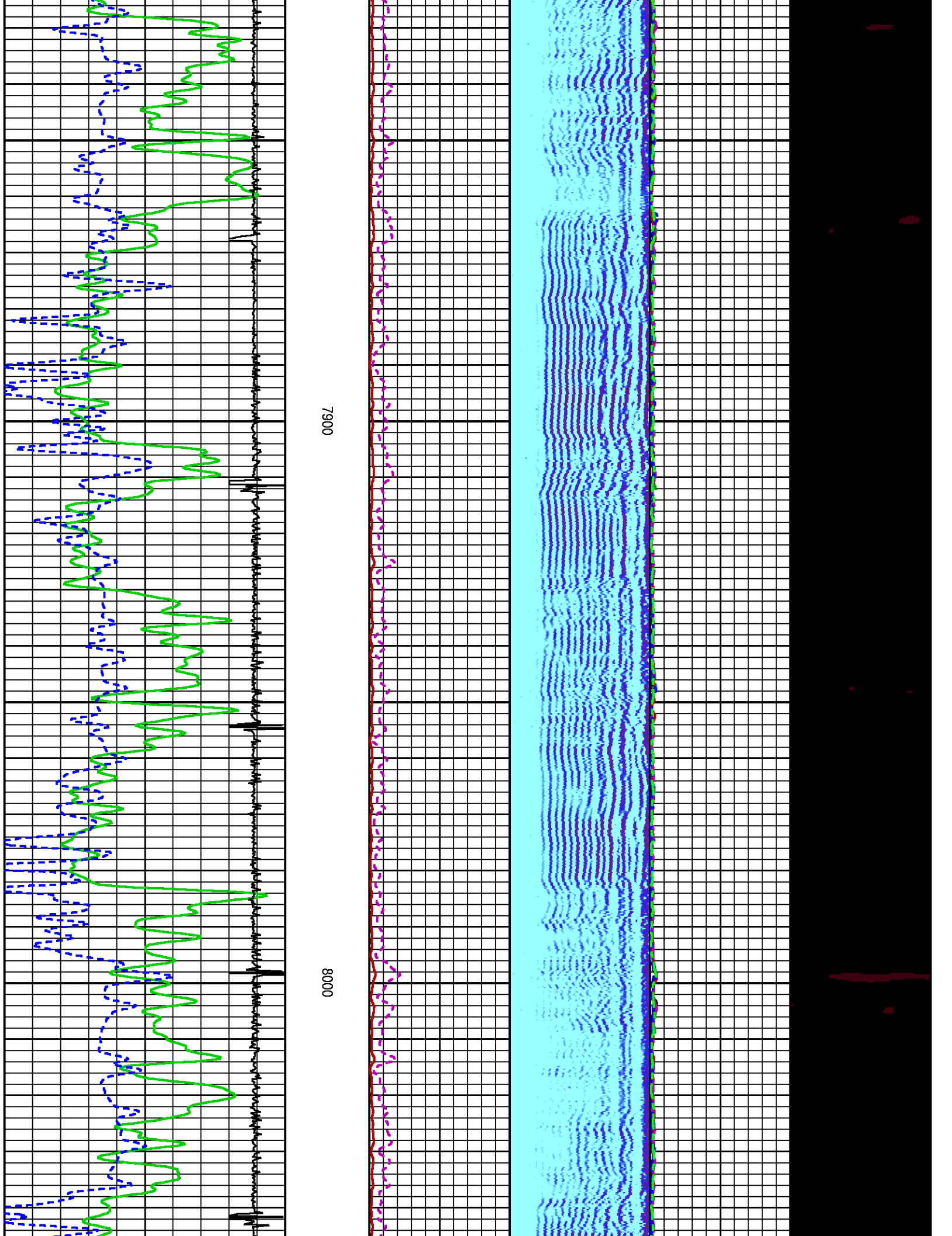


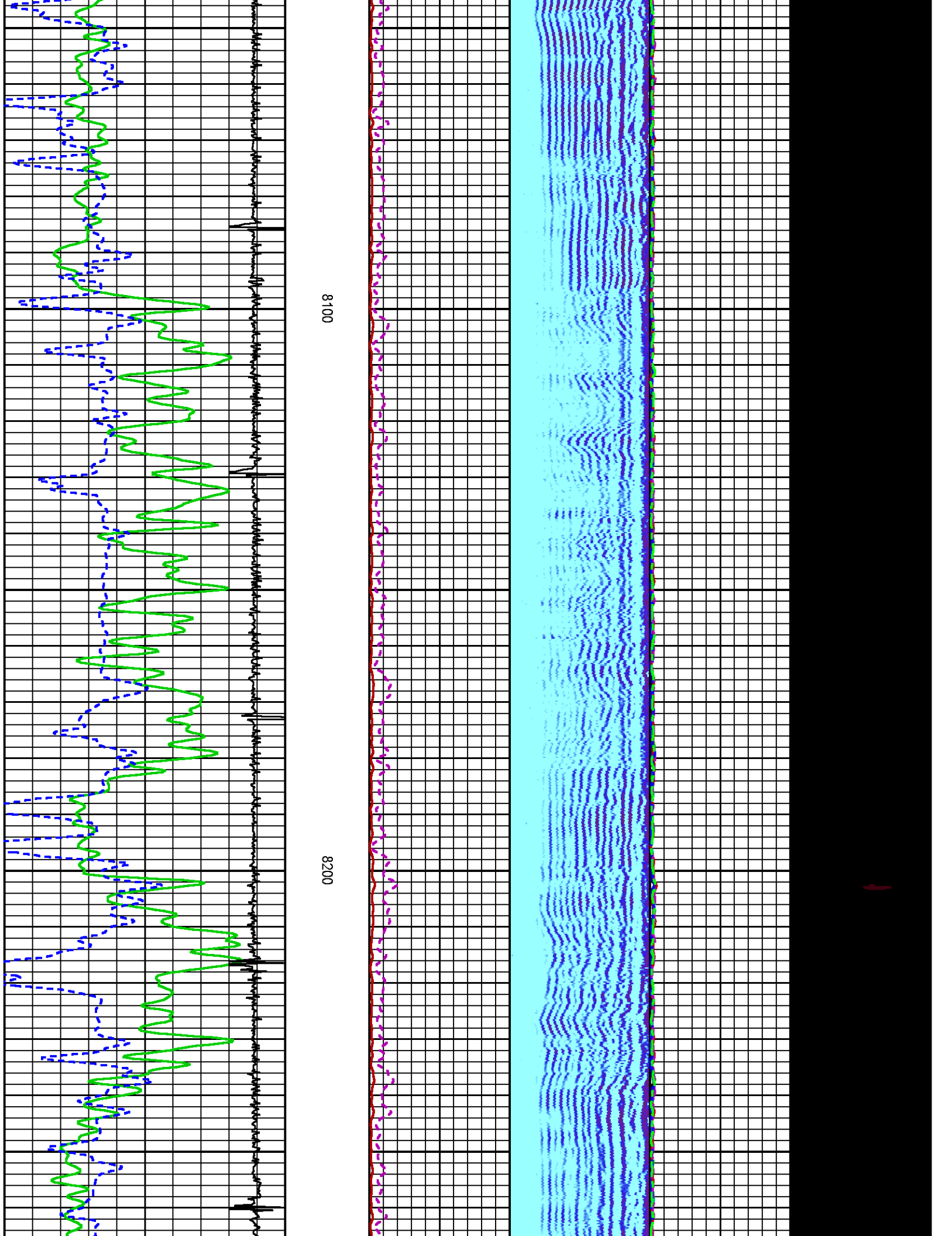


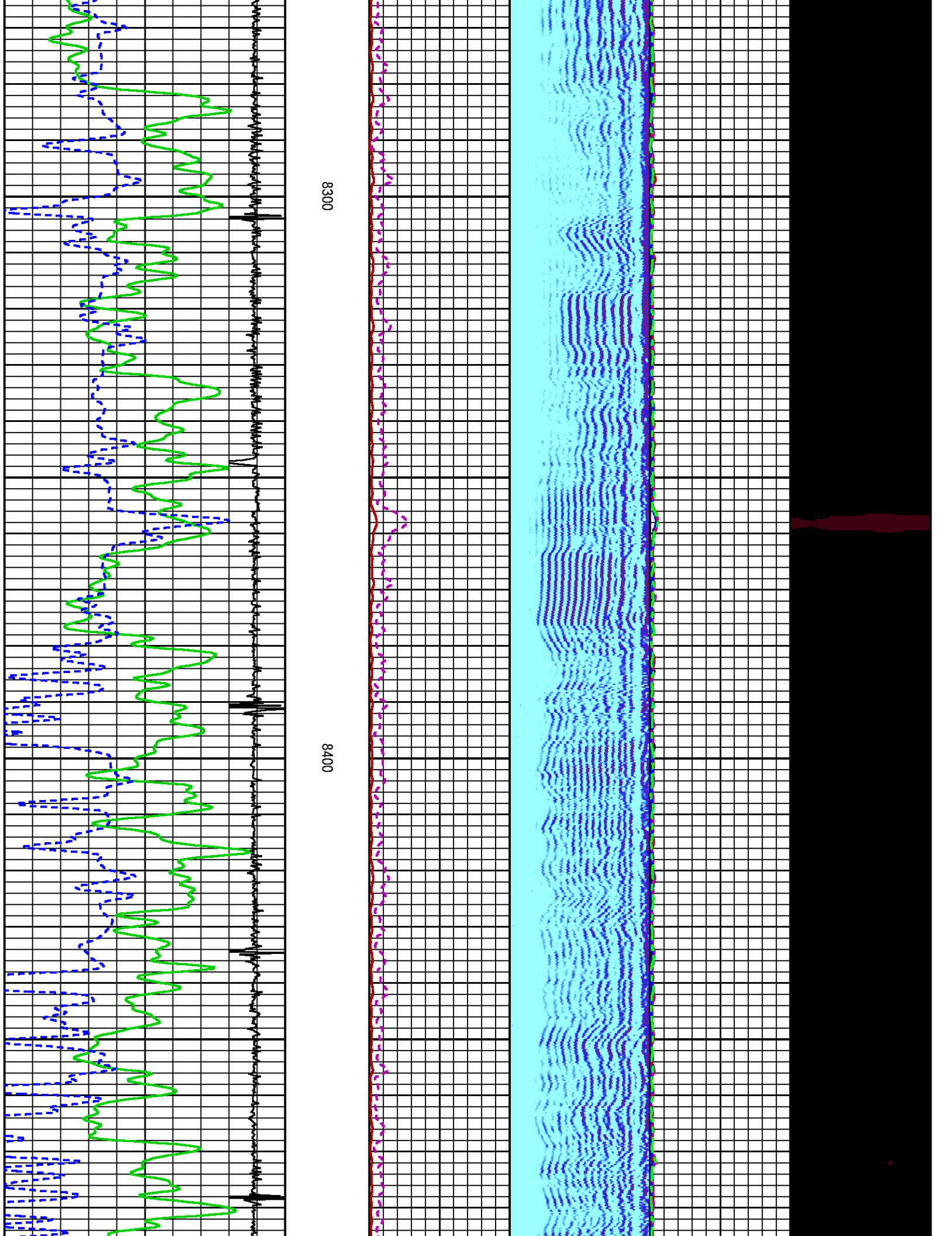


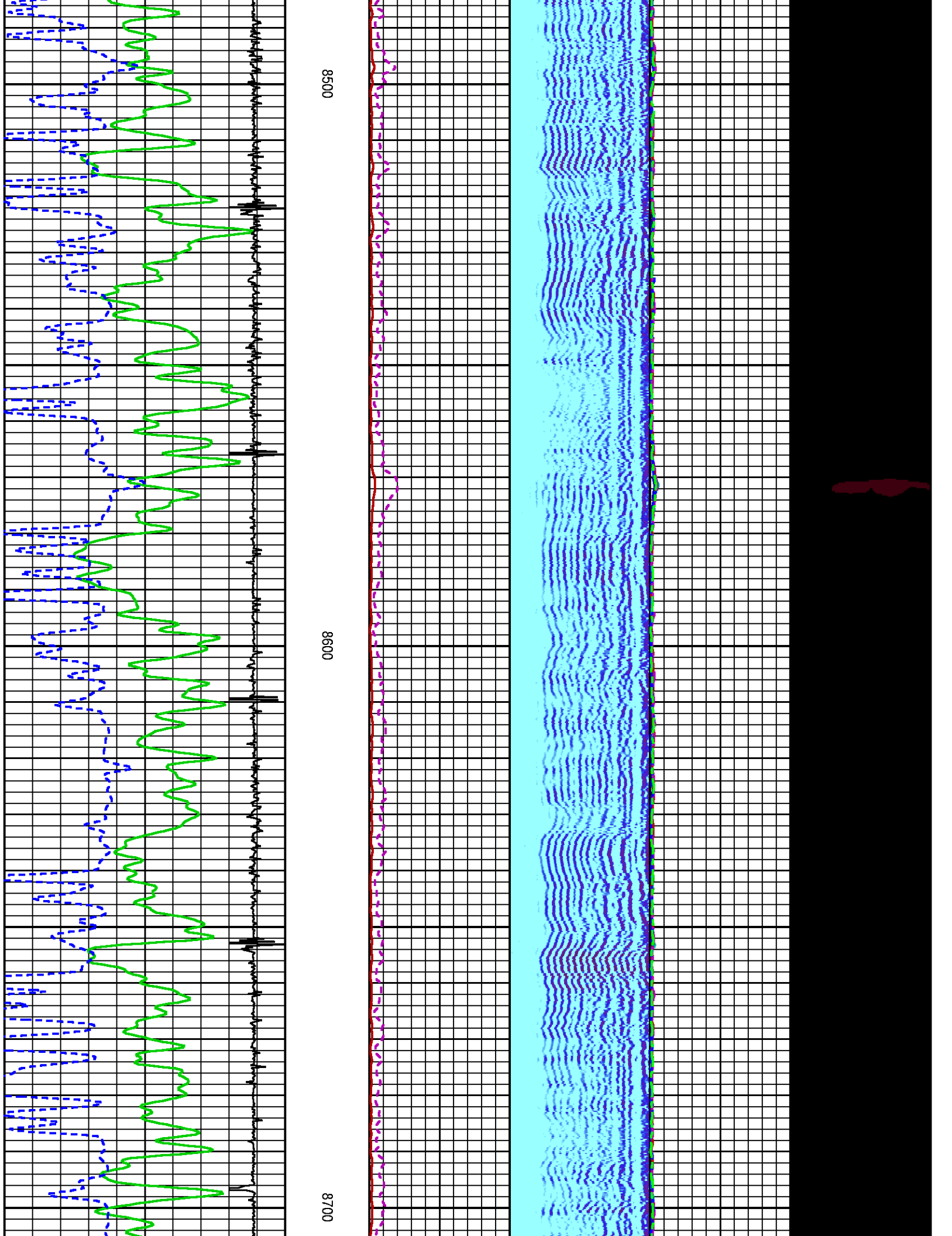


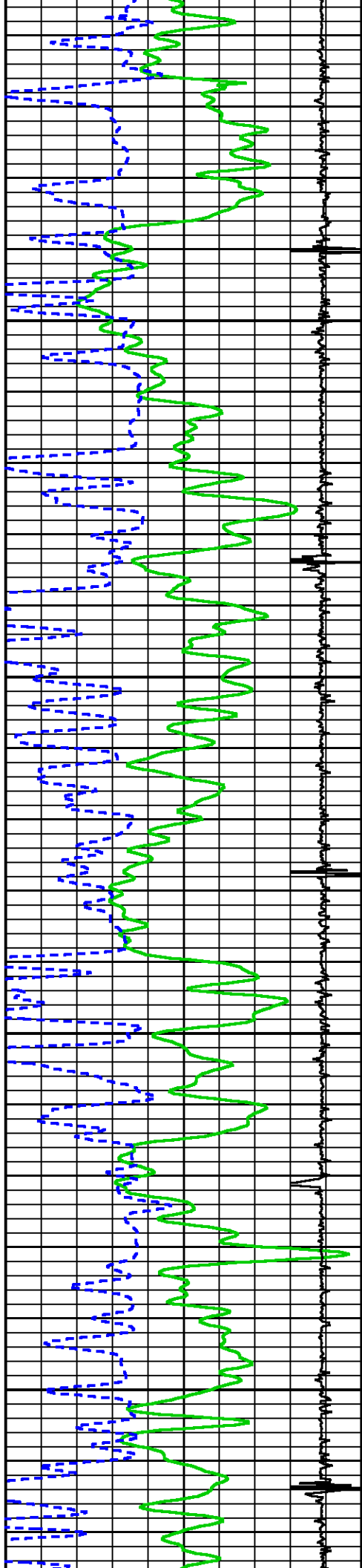






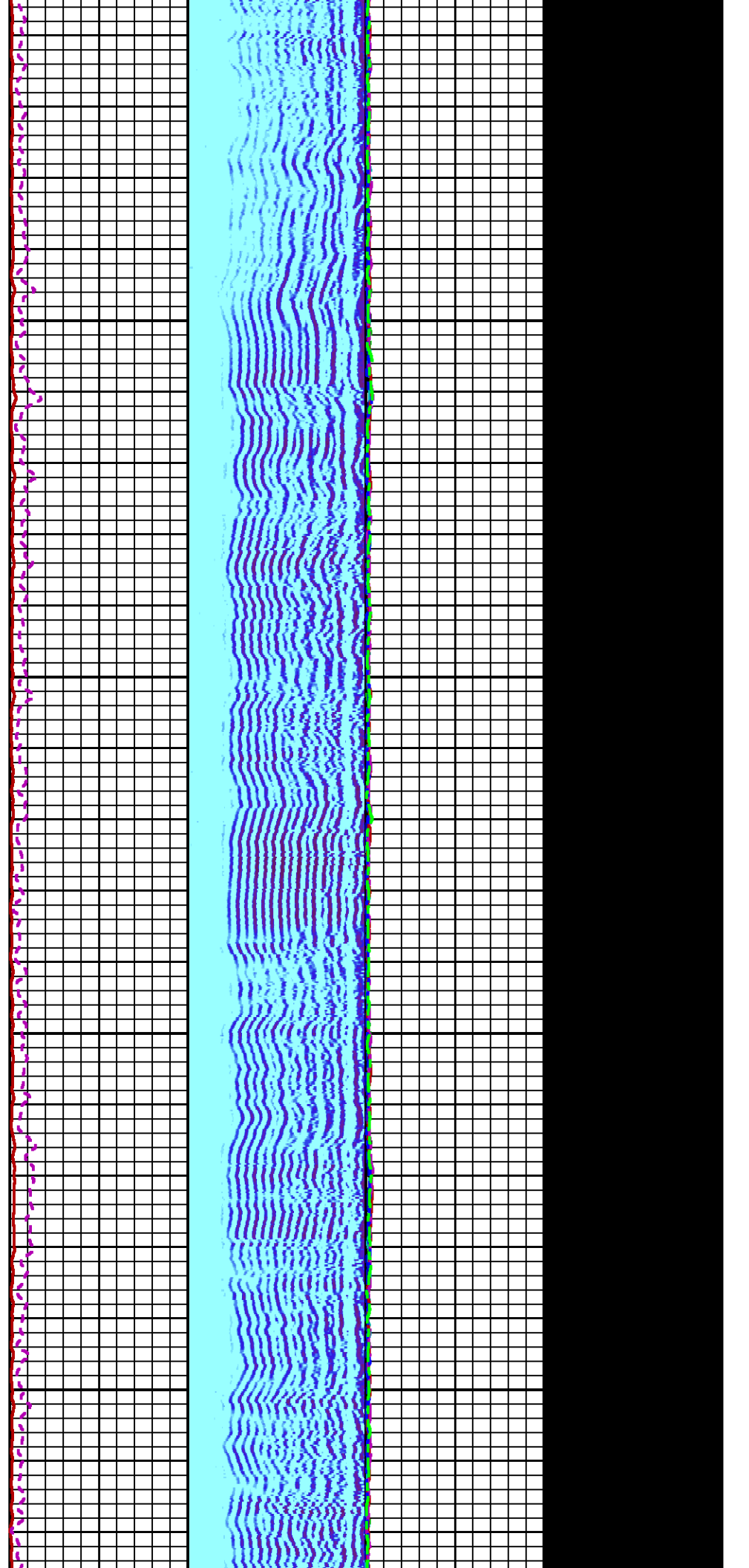


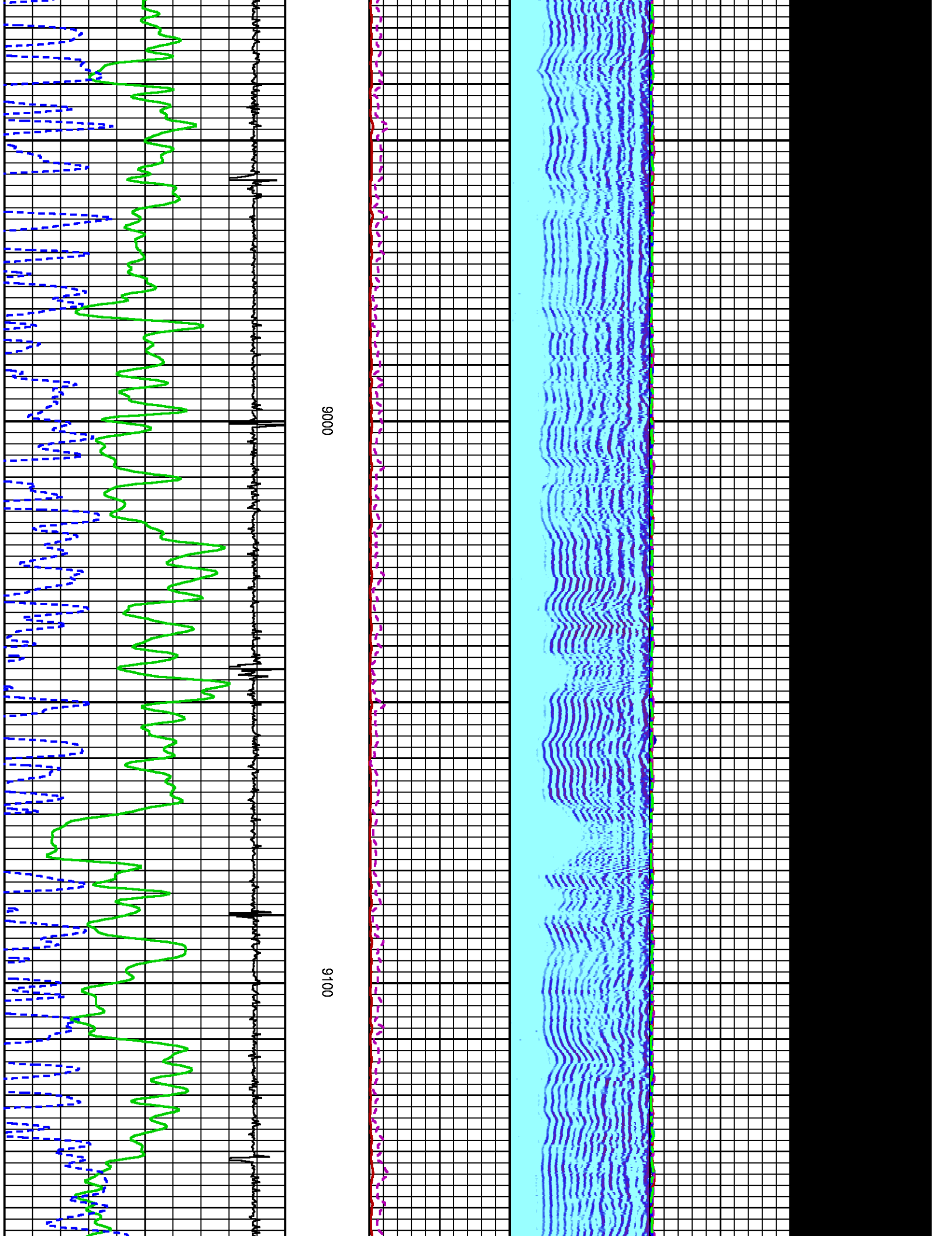


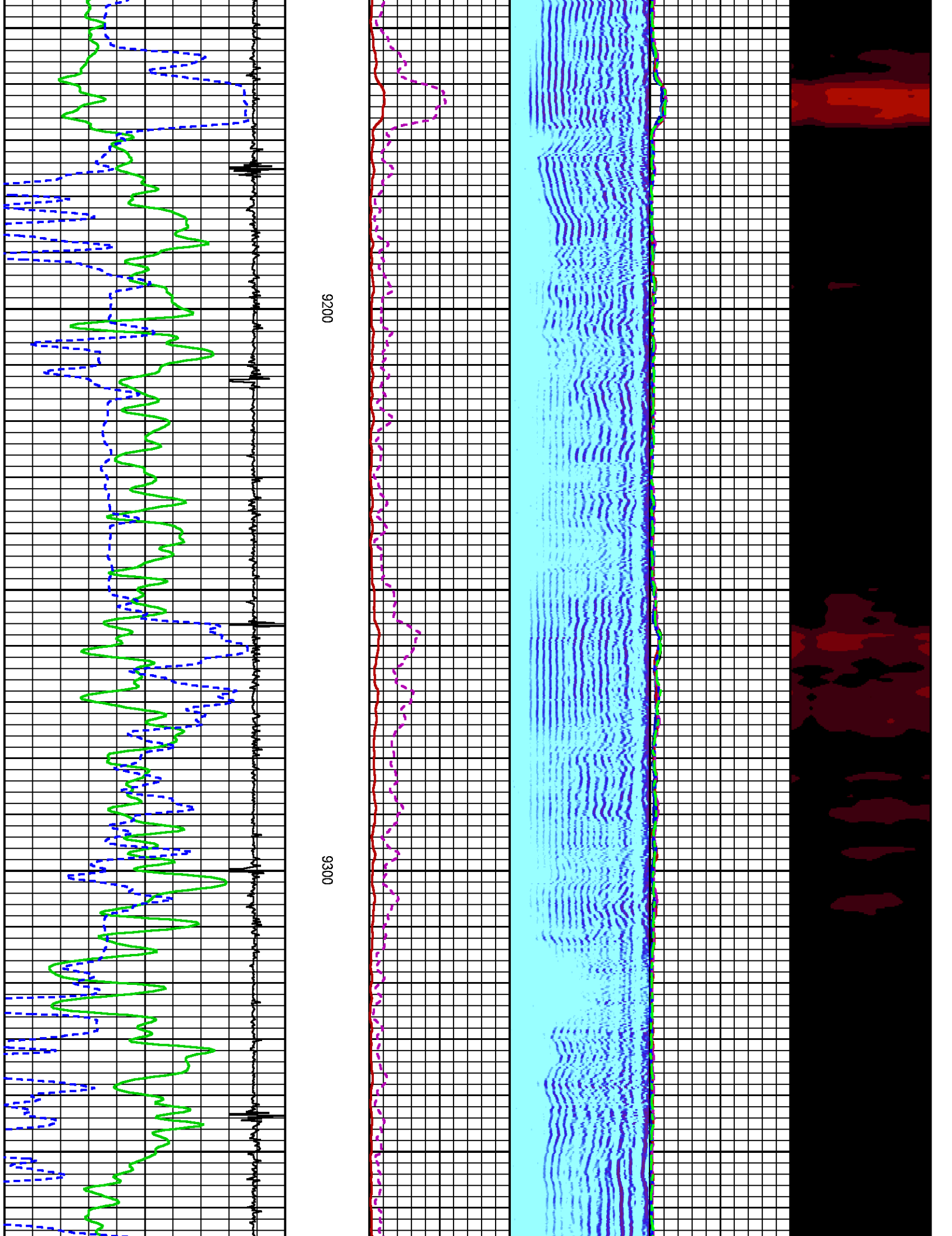


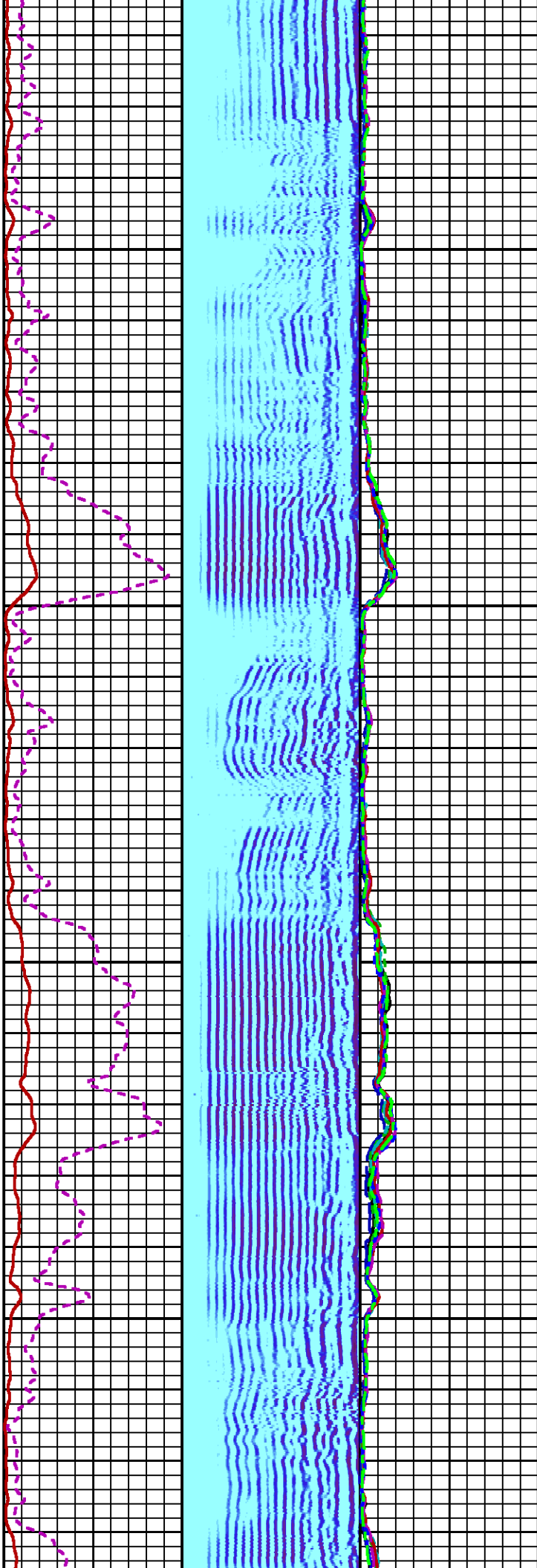
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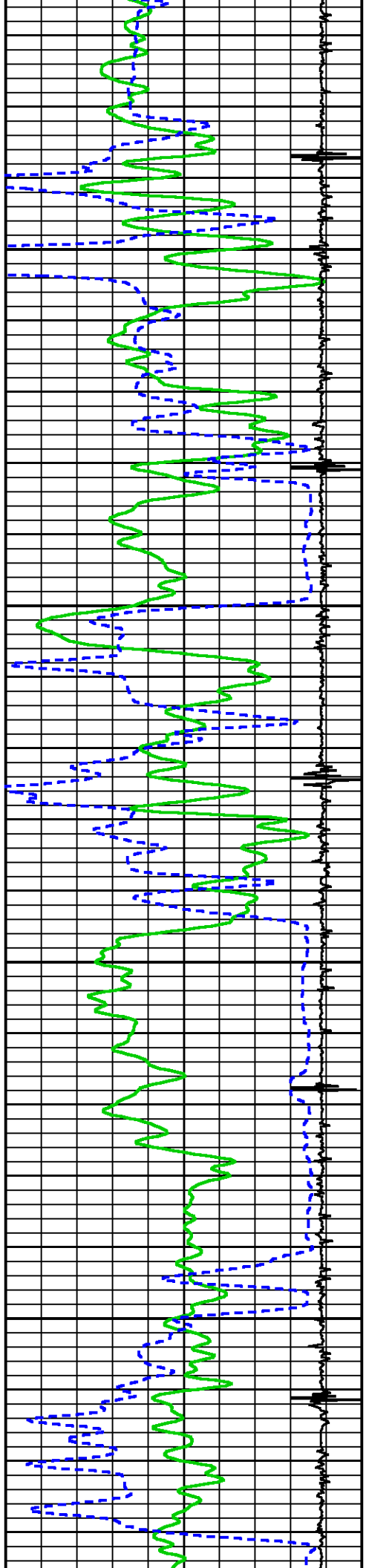


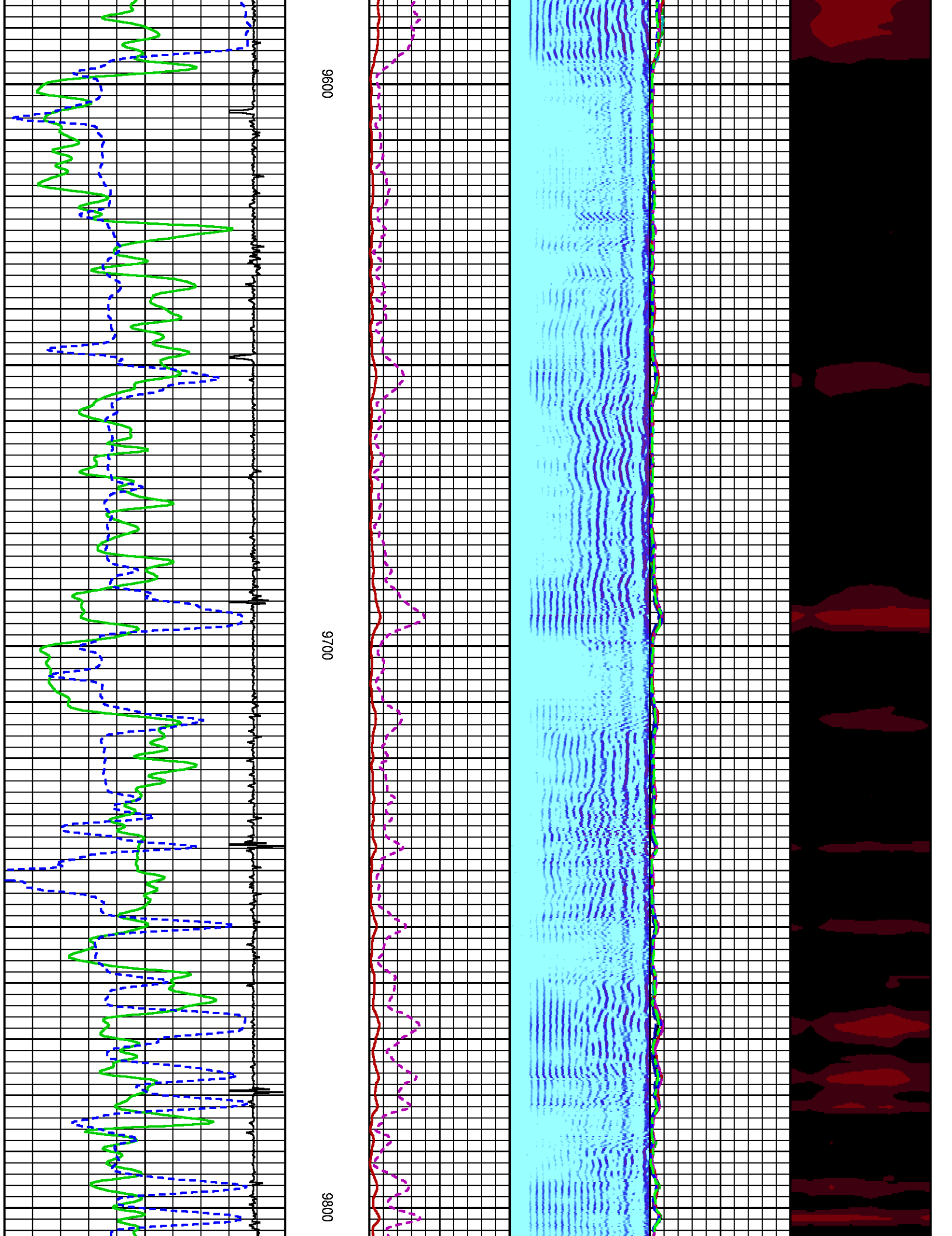


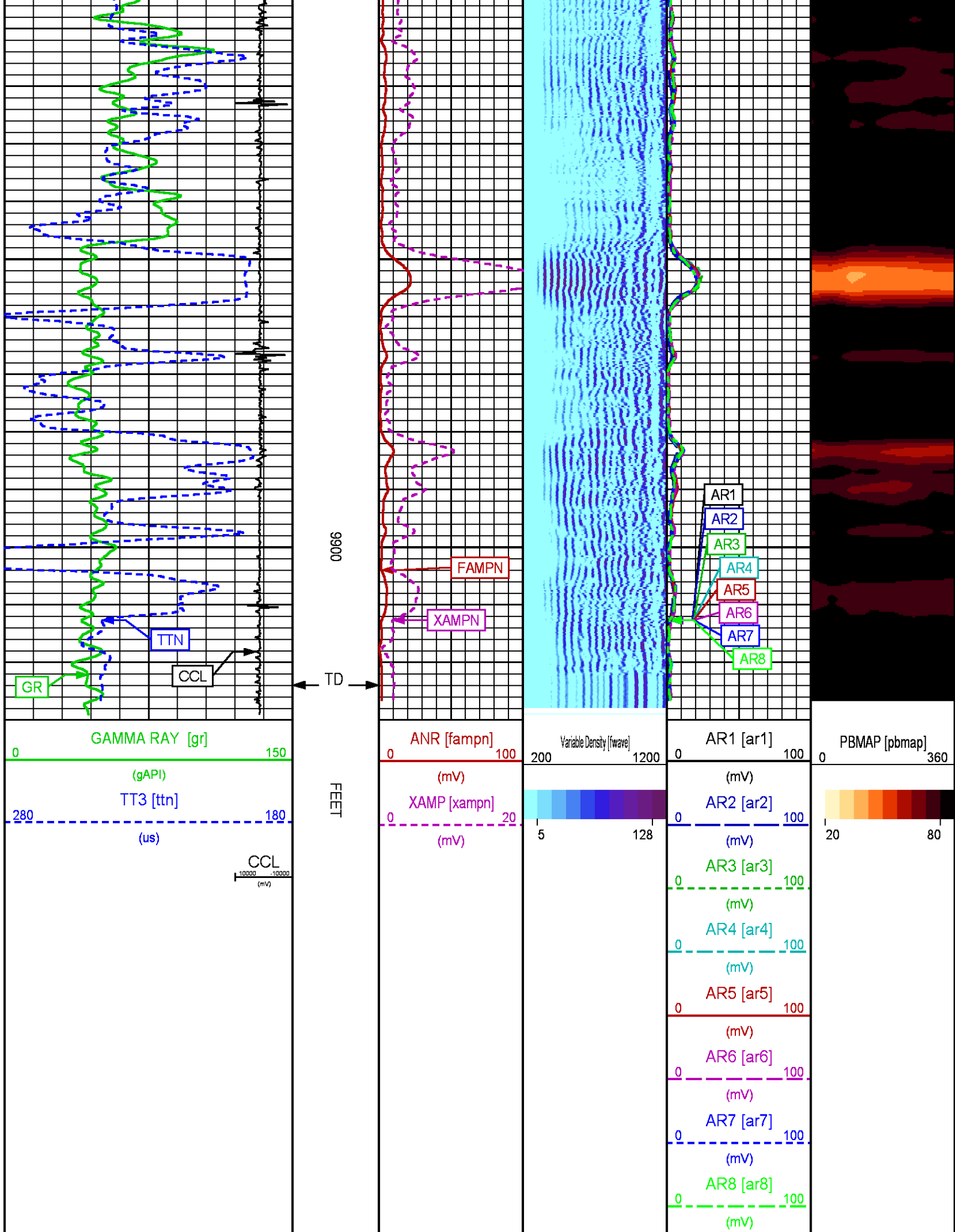


9400

9500







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH101064/n354h.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #:		2812LA 10274382		DATE/TIME PERFORMED:		Fri Dec 4 13:53:27 2015			
		UNIT #:		3880TA HL6670		CALB JIG #:		4702NK WA-612	

GR PRIMARY VERIFICATION SUMMARY

TOOL #:		2812LA 10274382		DATE/TIME PERFORMED:		Fri Dec 4 13:55:35 2015							
UNIT #:		3880TA HL6670		VERI JIG #:		4702NK WA-612							
BACKGROUND		CALBRTR ON		MULT		BACKGROUND		CALBRTR ON		DIFF.			
(cts/s)		(cts/s)				(gAPI)		(gAPI)		(gAPI)			
GR		57.07		255.69		1.078		61.53		275.67		214.14	
										200.00		220.00	

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10585555

DATE/TIME PERFORMED: Fri Dec 4 15:05:21 2015

UNIT: 3880TA HL6670

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 11724361

HOURS: 8281AA 52

	ISS	Mtr VIts (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (uSec)	RCAL
Raw Data	805195	123	2231	2198	2236	107	7	0.9751
Interpolated	1300000	147	2205	2182	2233			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	805195	6721	1074	149	26.16 25.35 26.40	0.14 0.00 0.20	24.34 23.60 24.80	0.32 0.00 0.40

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	805195	174199	27474	91124	32411	8405	55042	13455
Fit Quality %		0.817	1.056	1.090	1.085	0.923	0.976	0.912

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	805195	1.43 1.42 1.45	4.62 3.55 5.52	29.32 22.20 32.70	14.63 10.99 16.34	10.85 10.06 11.10	3.86 3.57 3.95	4.09 3.76 4.22
Fit Quality %		0.034	0.365	0.305	0.242	0.120	0.126	0.108
Reduced	1396913	1.43 1.42 1.45	4.63 4.33 5.52	29.34 27.60 32.70	14.63 13.70 16.34	10.85 10.06 11.10	3.86 3.57 3.95	4.09 3.76 4.22

TPSETEMP PRIMARY CALIBRATION SUMMARY

TOOL #:	8255XA 120516	DATE/TIME PERFORMED:	Fri Oct 9 14:47:11 2015
UNIT #:	3880TA HL6670		

T(0)

T(1)

T(2)

T(3)

Corr Coeff for Temp

-2.032071E+01

1.041576E-01

1.407105E-06

-1.763022E-10

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH101064/RPM-tdg

A3 CABLEHEAD

Diameter : 1.37"

PCM POWER SUPPLY

Diameter : 1.70"
Length : 3.86'
Weight : 18 lbs
Series : 8250EA
Mnemonic : PCM

TELEMETRY / CCL

Diameter : 1.70"
Length : 4.46'
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

SONDEX GAMMA RAY

Diameter : 1.69"
Length : 2.17'
Weight : 10 lbs
Series : 2812LA
Mnemonic : GR
Measure Point: 0.62': GR MP

RPM ELECTRONICS

Diameter : 1.70"
Length : 4.48'
Weight : 16 lbs
Series : 8281EA
Mnemonic : RPM

33.24'

CCL MP 25.19'

GR MP 22.64'

RPM C DETECTOR SECTION

Diameter : 1.70"
 Length : 9.40'
 Weight : 41 lbs
 Series : 8283PA
 Mnemonic : RPM
 Measure Point: 5.45': XLS DETECTOR
 Measure Point: 5.04': LS DETECTOR
 Measure Point: 4.79': SS DETECTOR

XLS DETECTOR 13.58'
 LS DETECTOR 13.16'
 SS DETECTOR 12.91'

RPM SOURCE SECTION

Diameter : 1.70"
 Length : 4.70'
 Weight : 18 lbs
 Series : 8281FA
 Mnemonic : RPM

TEMPERATURE / PRESSURE

Diameter : 1.70"
 Length : 3.30'
 Weight : 13 lbs
 Series : 8255XA
 Mnemonic : SRPL
 Measure Point: 1.52': TEMP MP

TEMP MP
 PRES MP 1.65'

BULL PLUG 1 11/16

0.00'

TOTAL LENGTH: 33.24'
 TOTAL WEIGHT: 140 lbs
 MAX DIAMETER: 0'1.70"

**COMPANY****WPX ENERGY****WELL****FEDERAL RU 21-8****FIELD****RUILISON****COUNTY****GARFIELD****STATE COLORADO****FILE NO:****CH101064****API NO:****05045227830000****LOCATION:**

SHL: 653' FNL & 1876' FWL
 BHL: 627' FNL & 1436' FWL

ELEVATIONS:**KB 7760 FT****DF****GL 7736 FT****SEC 8 T7S R93W****RU 21-8 PAD****H&P 318****SEC 8 TWP 7S RGE 93W****DATE 07-DEC-2015**