



FILE NO: CH107930	COMPANY WELL FIELD COUNTY	WPX ENERGY FEDERAL GM 43-8 GRAND VALLEY GARFIELD STATE COLORADO
API NO: 05045225260000		

Ver. 4.06 SEC8 T.7S R.96W PAD: MV 16-9 RIG: H&P 318	LOCATION: SHL:676FNL&545FWL SEC9 T7S R96W BHL:2411FSL&648FEL SEC8 T7S R96W NE/SE SEC 8 TWP 7S RGE 96W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	G.L. ELEVATION 6087 FT K.B. 24 FT ABOVE P.D. K.B.	ELEVATIONS: KB 6111 FT DF GL 6087 FT
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DATE	19-Jun-2016
RUN	1
SERVICE ORDER	US107930
DEPTH DRILLER	7208 FT
DEPTH LOGGER	7180 FT
BOTTOM LOGGED INTERVAL	7178 FT
TOP LOGGED INTERVAL	24 FT
TIME STARTED	15:00
TIME FINISHED	17:00
OPERATOR RIG TIME	2 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	50 FT
LOGGED CEMENT TOP	SEE LOG
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MN
MAX. RECORDED TEMP.	206.5 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	HL-6685
LOCATION	GRAND JCT.
RECORDED BY	SPENCER
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	1358 FT
8.75 IN	1358 FT	7223 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			24 FT	1358 FT
4.5 IN	11.6 LB/F		24 FT	7208 FT

REMARKS
RUN 1 TRIP 1: ALL DATA ON THIS LOG HAS BEEN SHIFTED TO PUT THE TOP CCL MARK (WELLHEAD) AT GL ELEVATION. AMOUNT OF LINEAR SHIFT IS +13.5 FEET  LOGGED WITH 0 PSI AT SURFACE  SJ = 3950' - 3972' BHT = 206.5 DEGF  THANKS FOR CHOOSING BAKER HUGHES WIRELINE CREW: QUIGLEY / OLSON

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

PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1,36 Patches: 9

Plotted: Sun Jun 19 17:13:06 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH107930/n012g02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 9.500 ft BOTTOM DEPTH: 7170.050 ft

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

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

ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	121	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

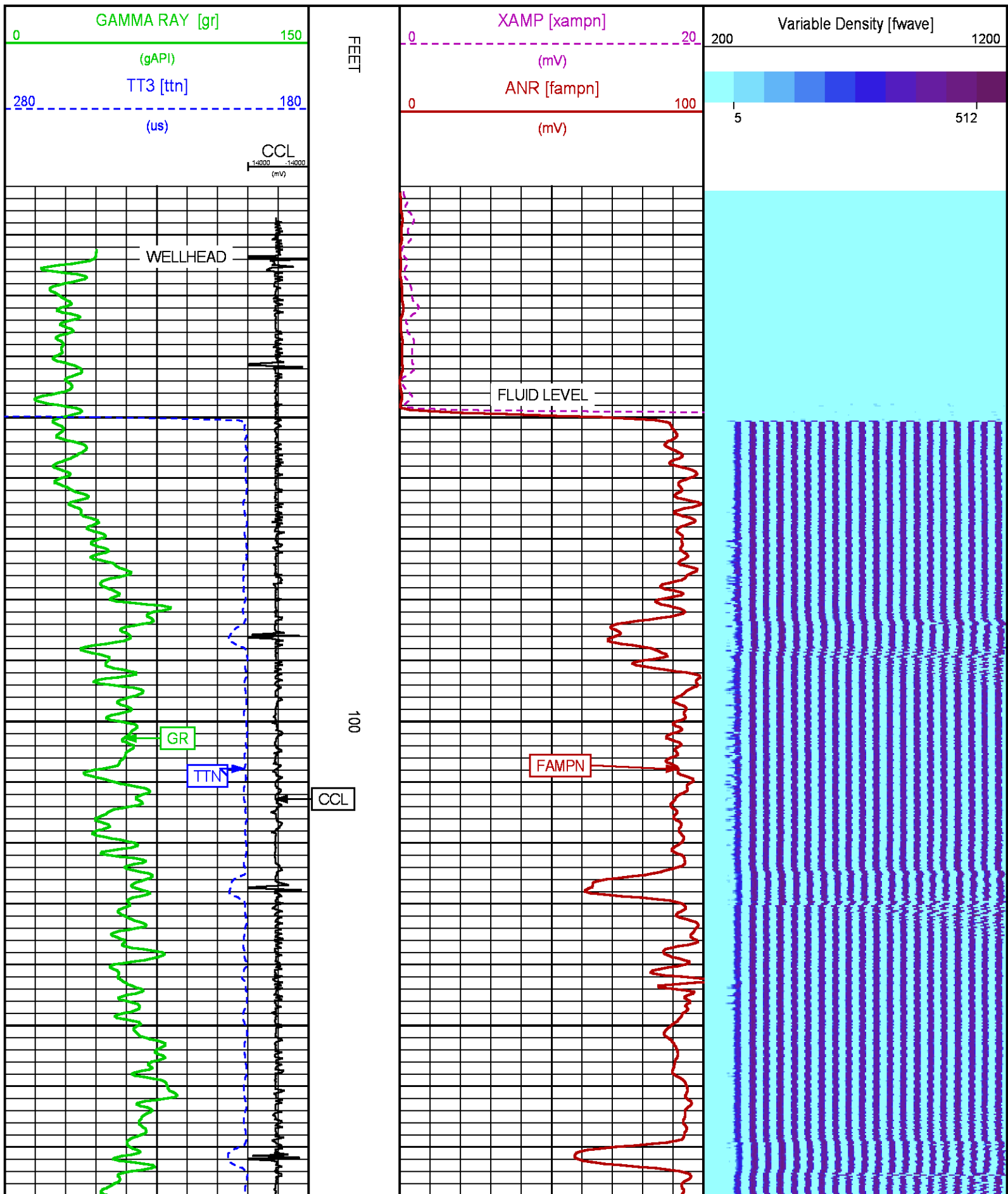
CURVE DESCRIPTION REPORT

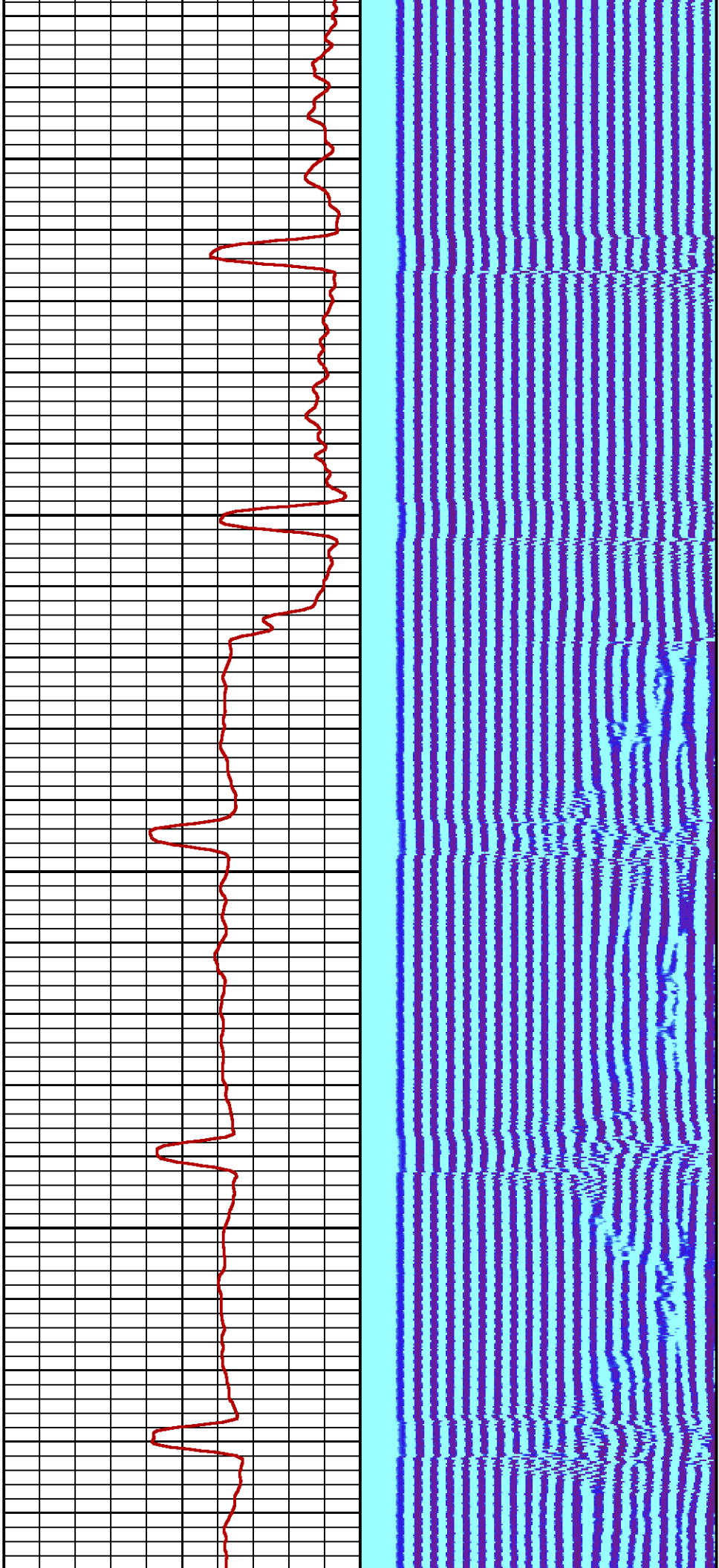
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jun 19 15:45:20 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 15:45:20 2016	FAR WAVE FORM
F1:GR	Jun 19 15:45:20 2016	GAMMA RAY
F1:TTN	Jun 19 15:45:20 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation : cas6685:/dat1a/CH107930/WPX\_ral\_cbl-MAIN.fvpdf [5"/100' Scale]  
Plot Interval : 12.75 - 7182 Feet

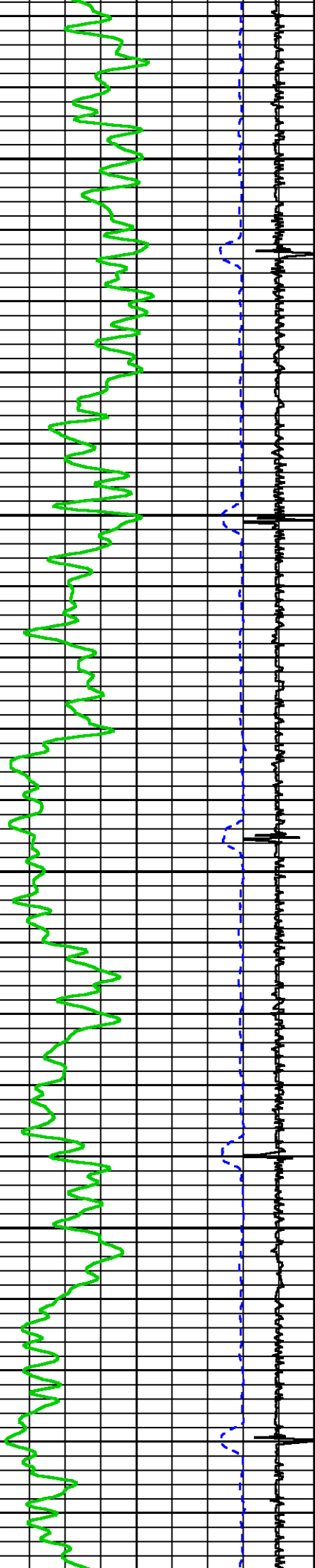
Data File 1 : F1 : cas6685:C:\dat1a\CH107930  
Created On 04/20/2016 15:45:20 2016  
Company : WPX ENERGY  
Well : FEDERAL GM 43-8  
Field : GRAND VALLEY  
File Interval : -1.75 - 7183.5 Feet  
OCT : n012g

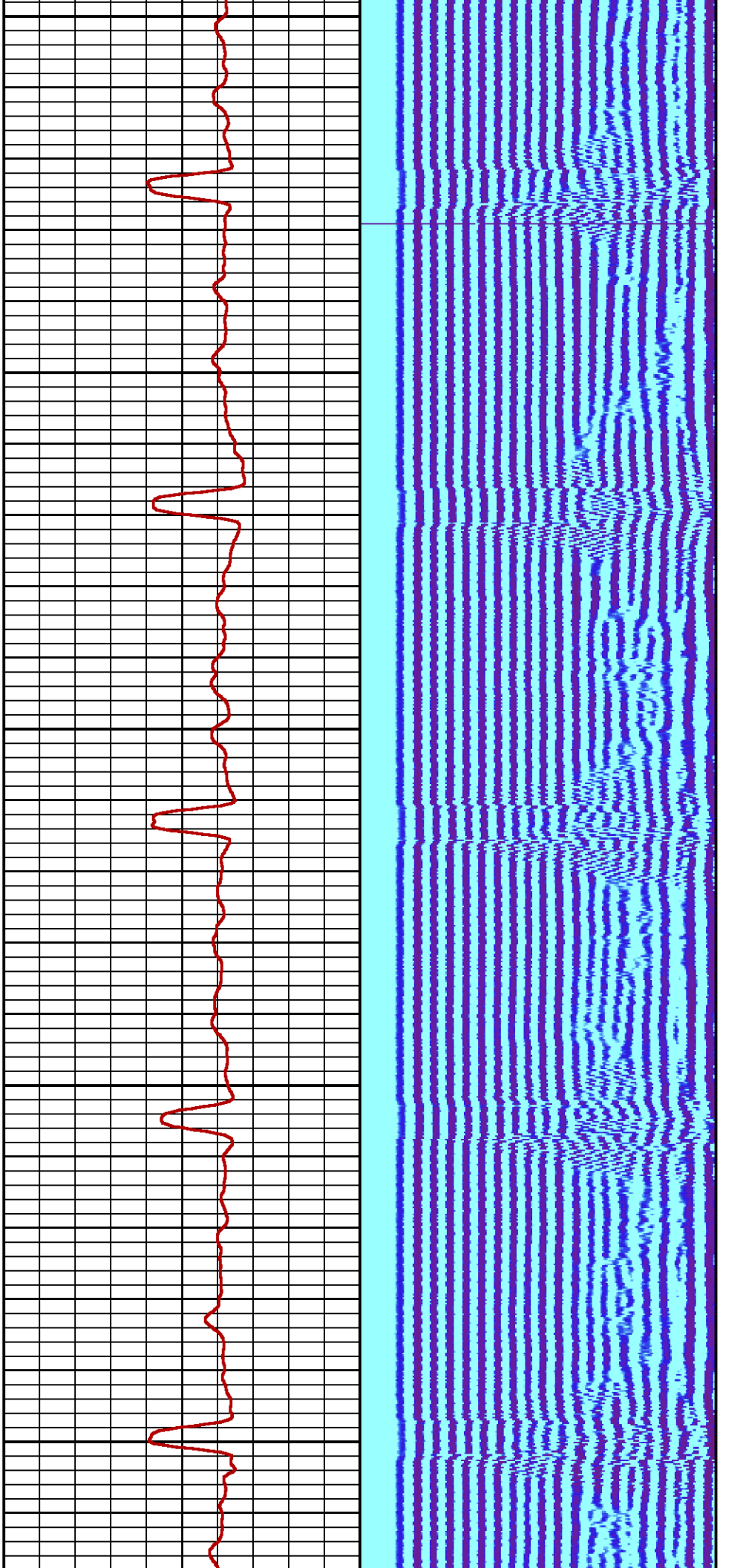




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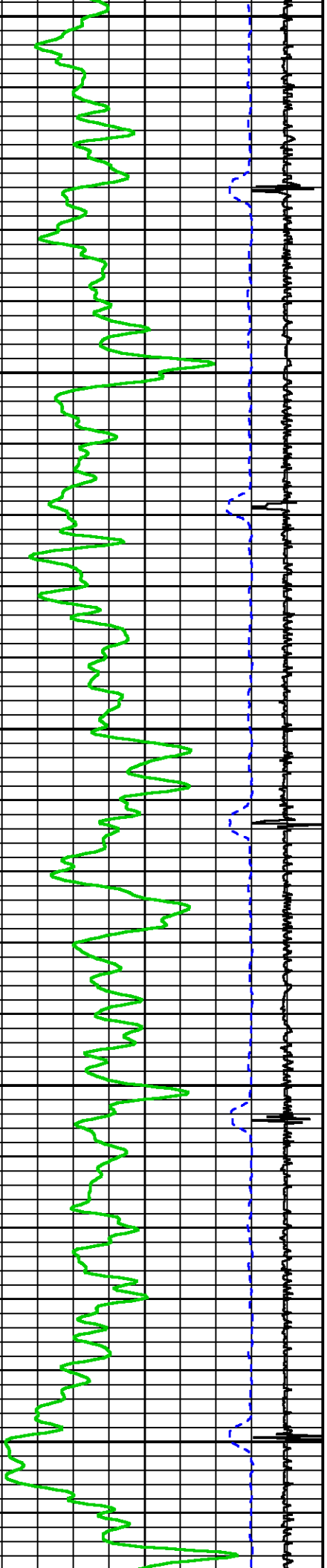




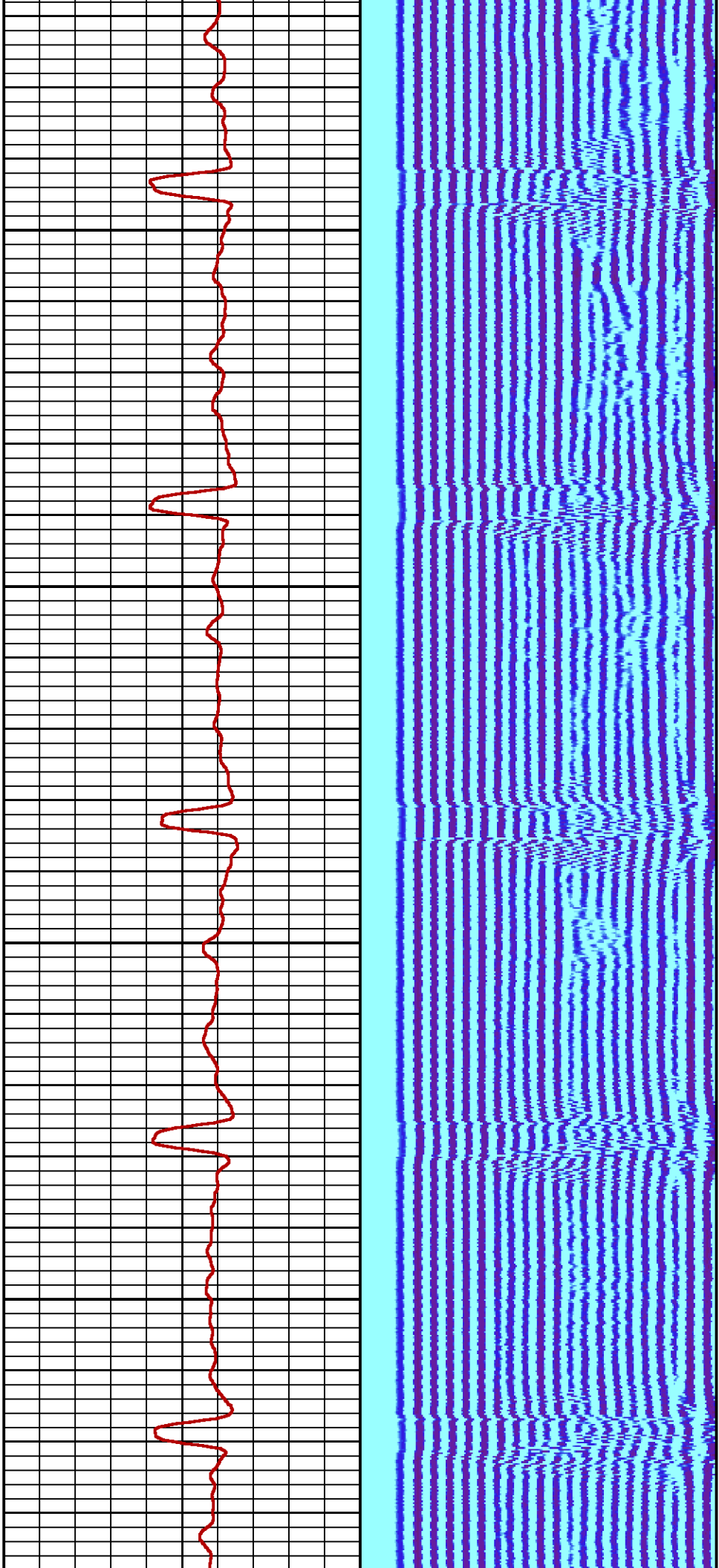
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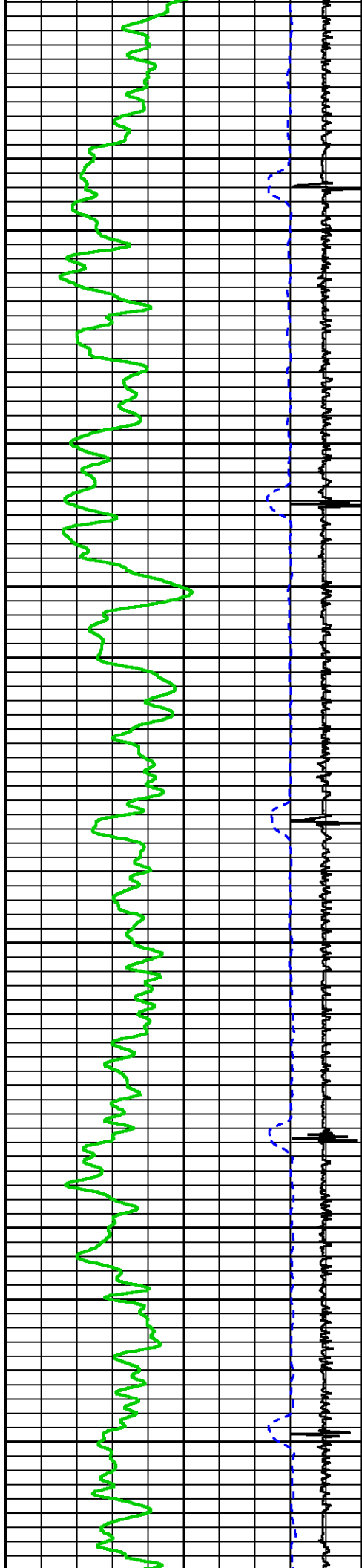


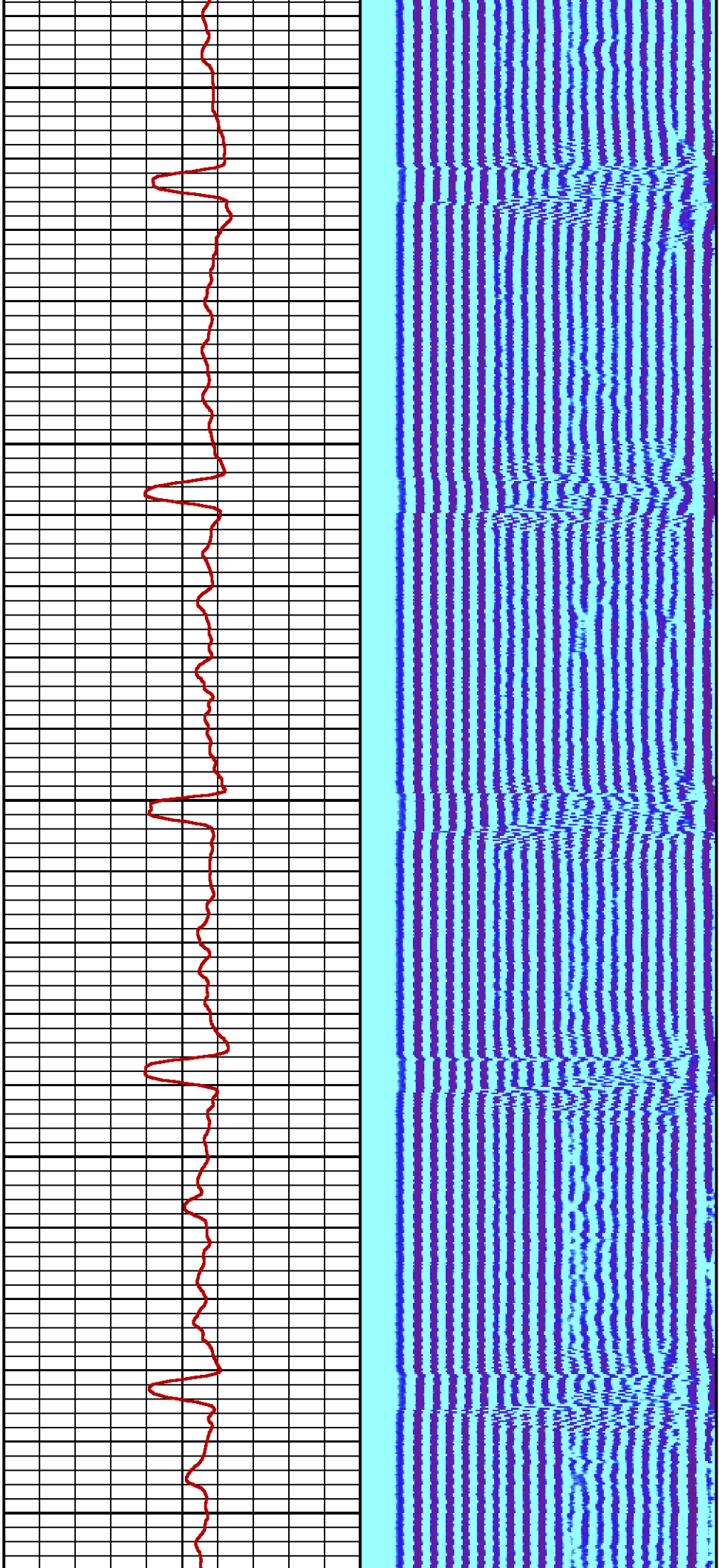




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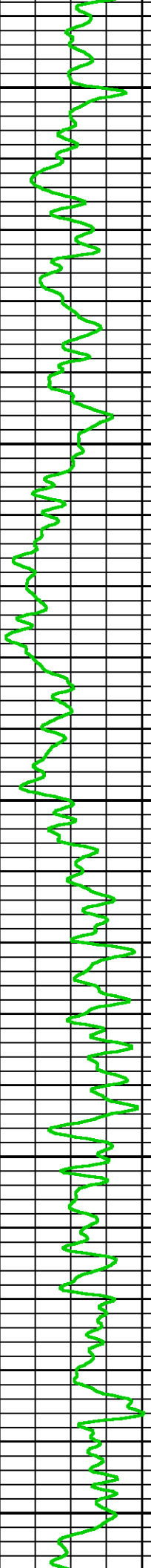
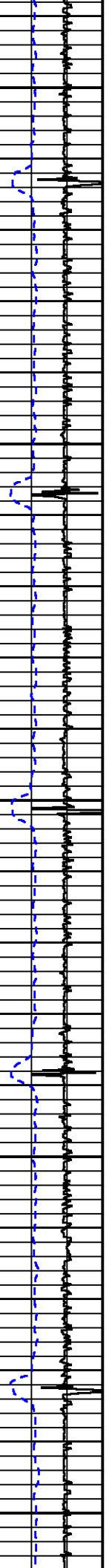
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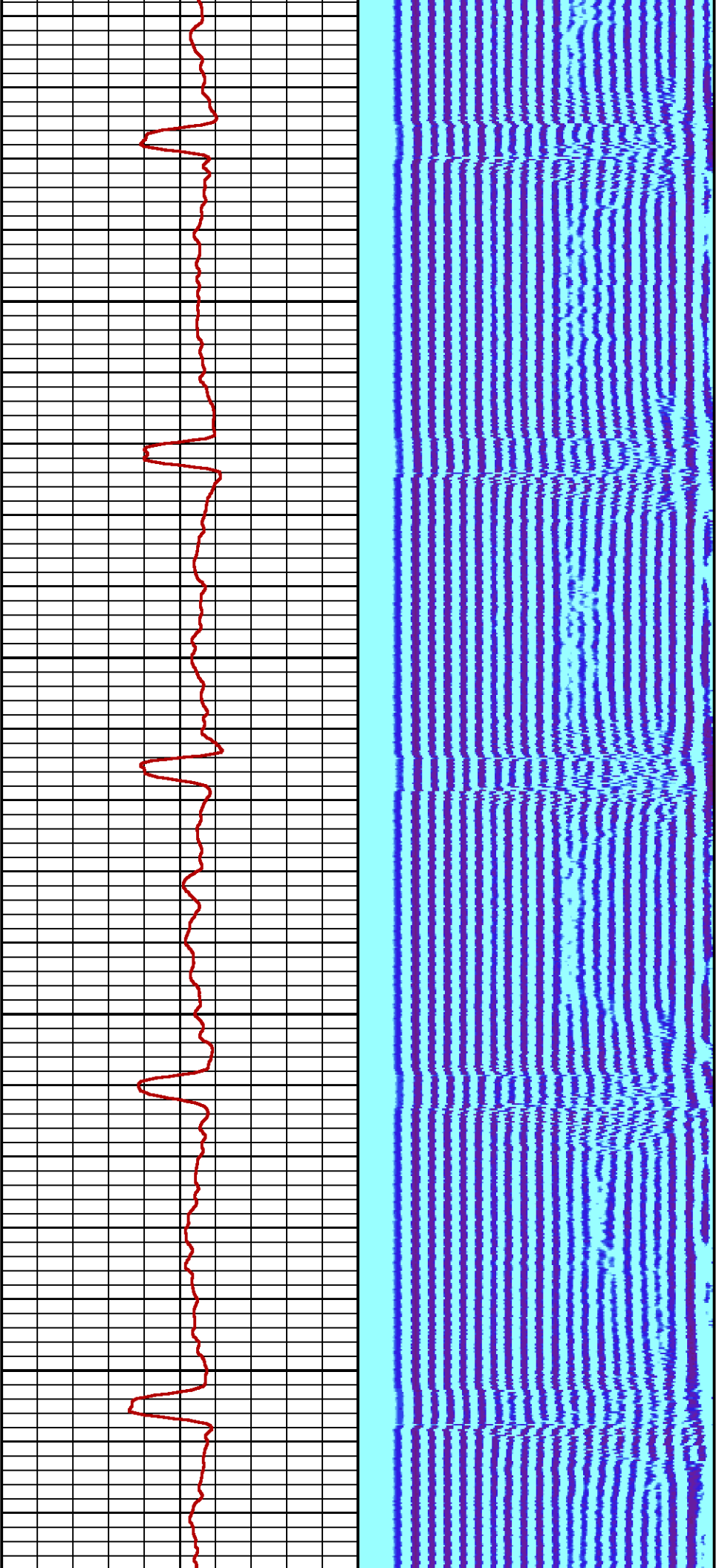




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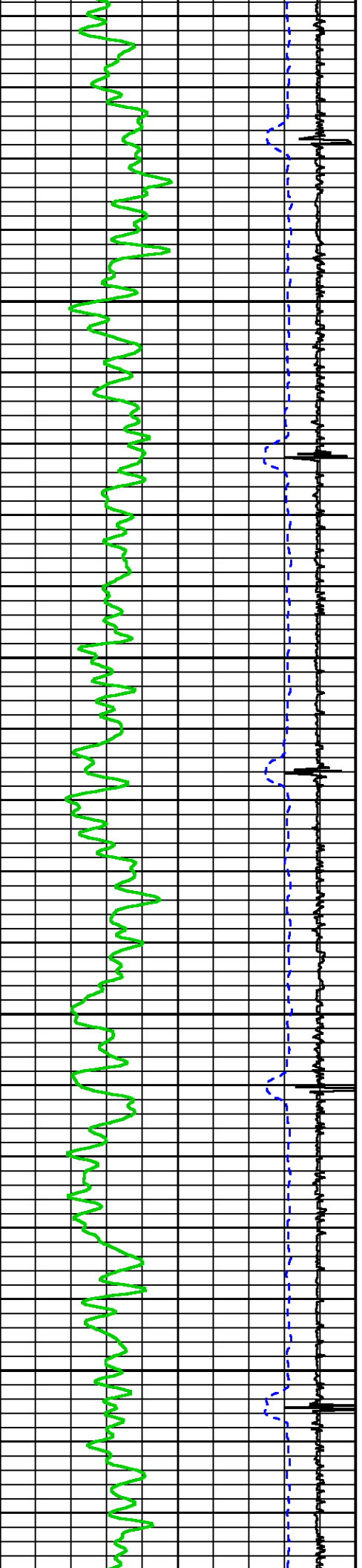
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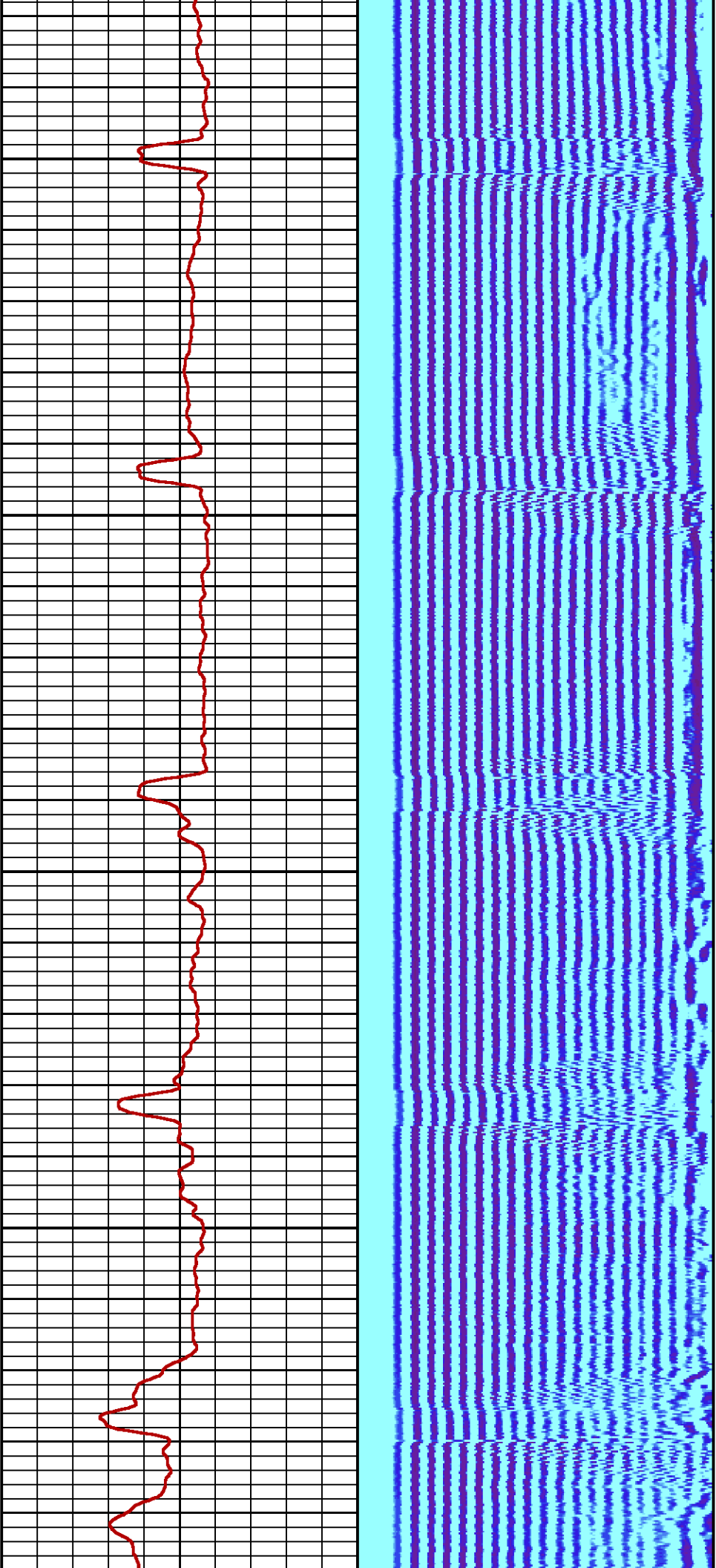


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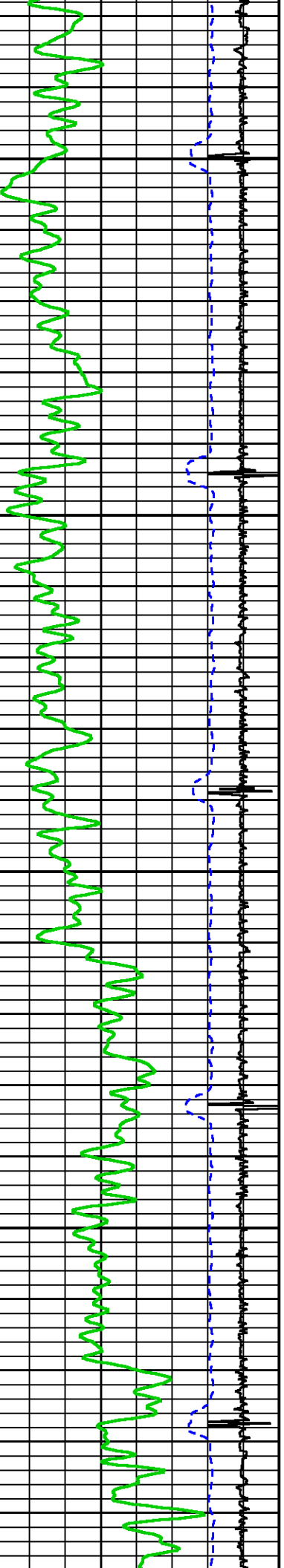


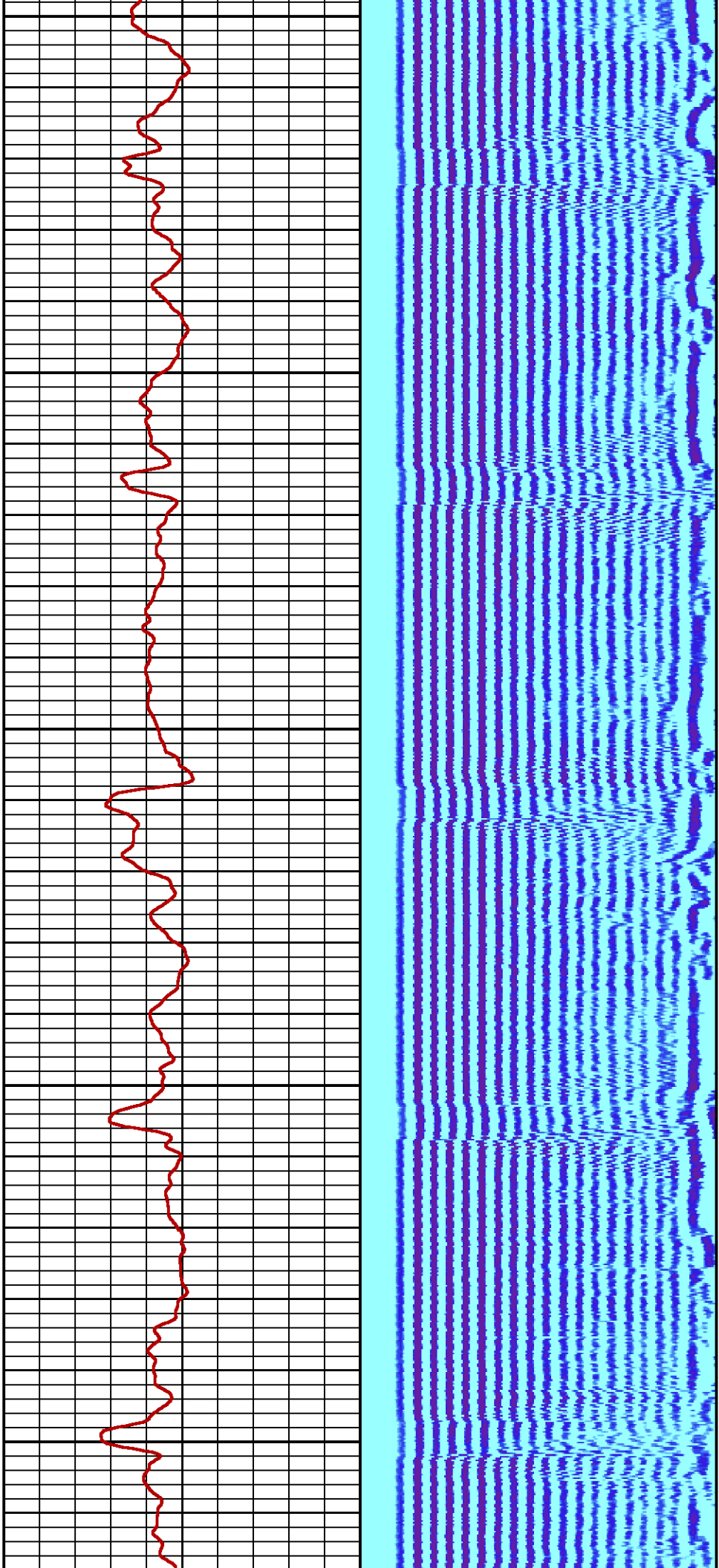




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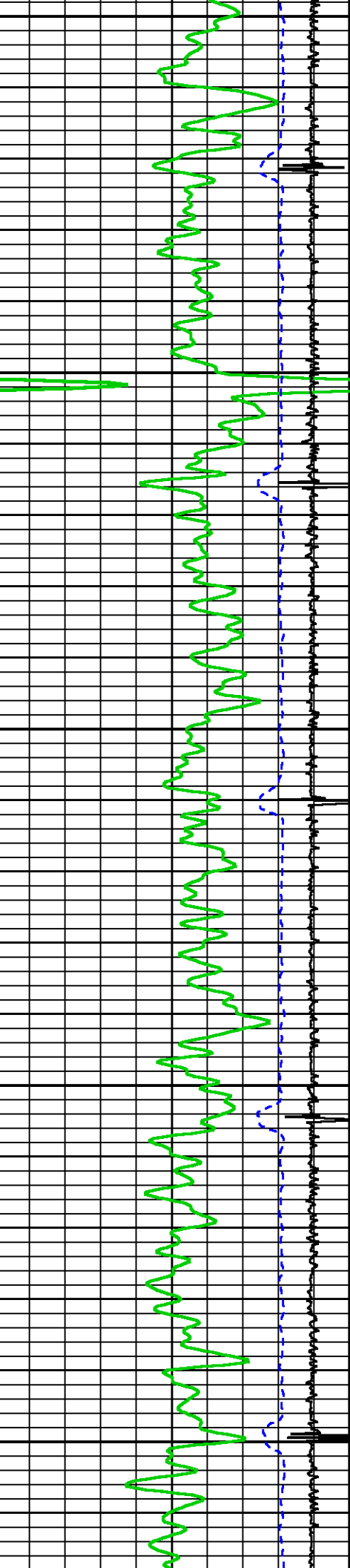


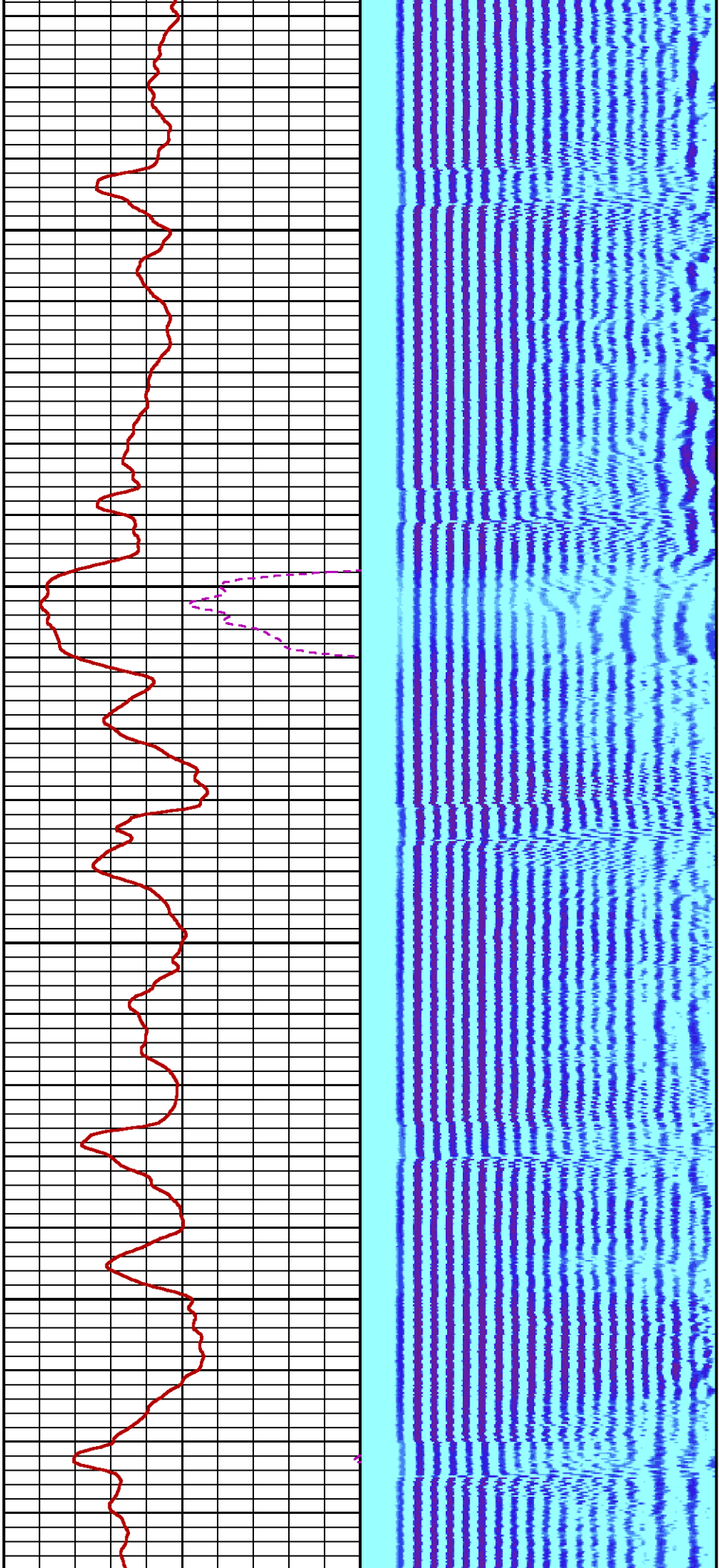


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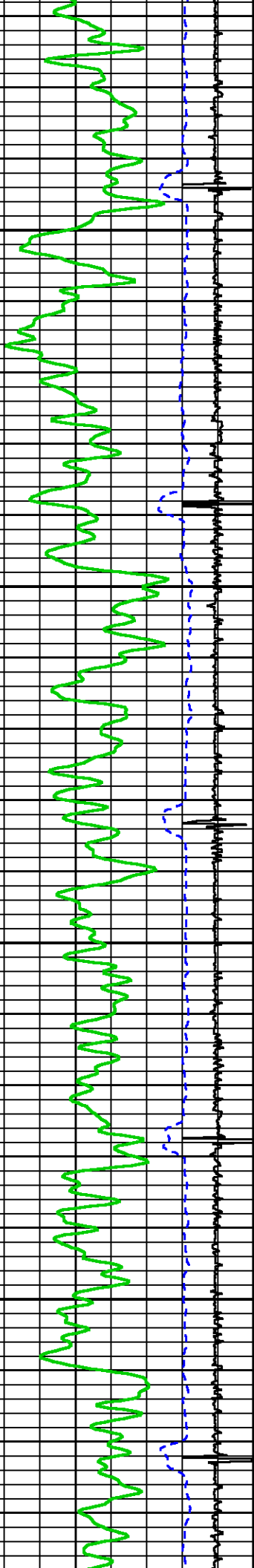
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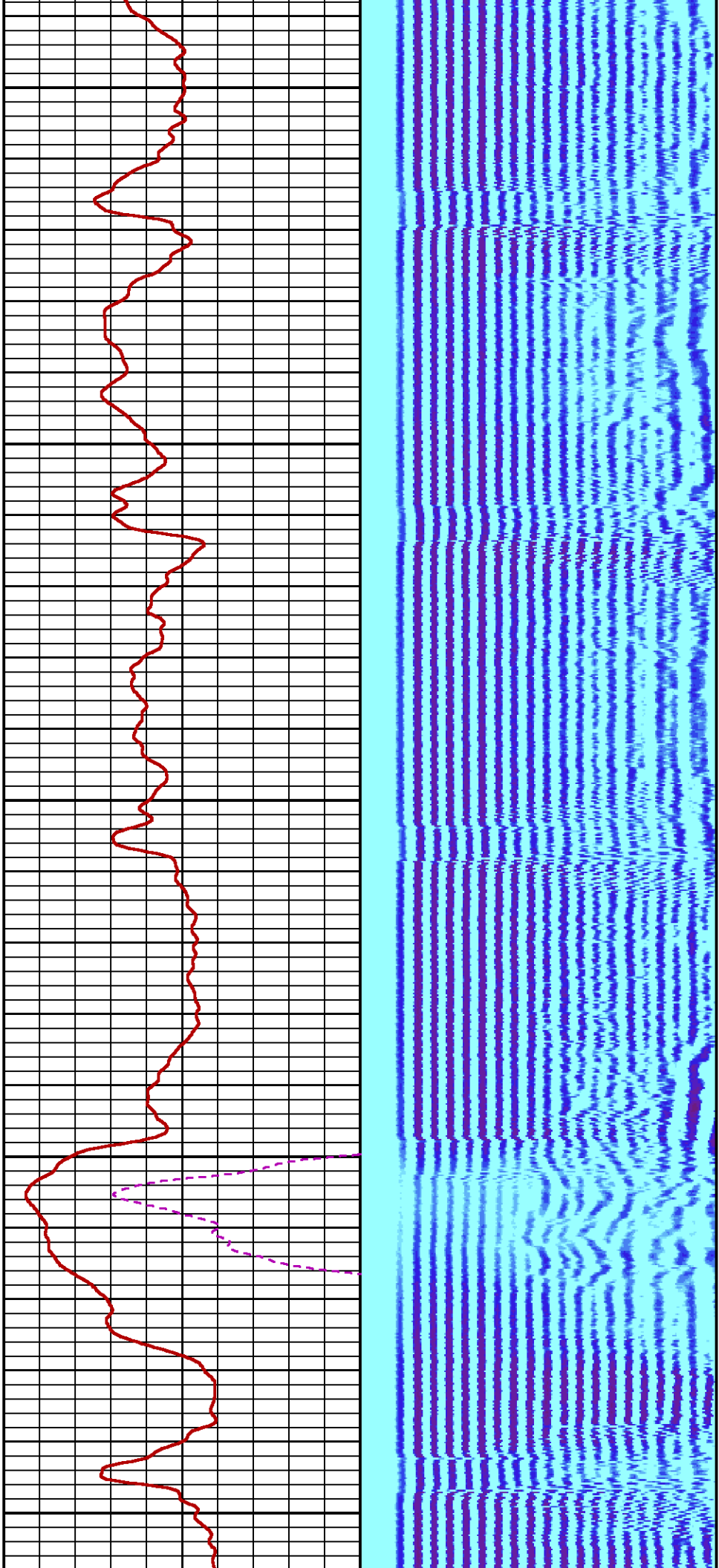


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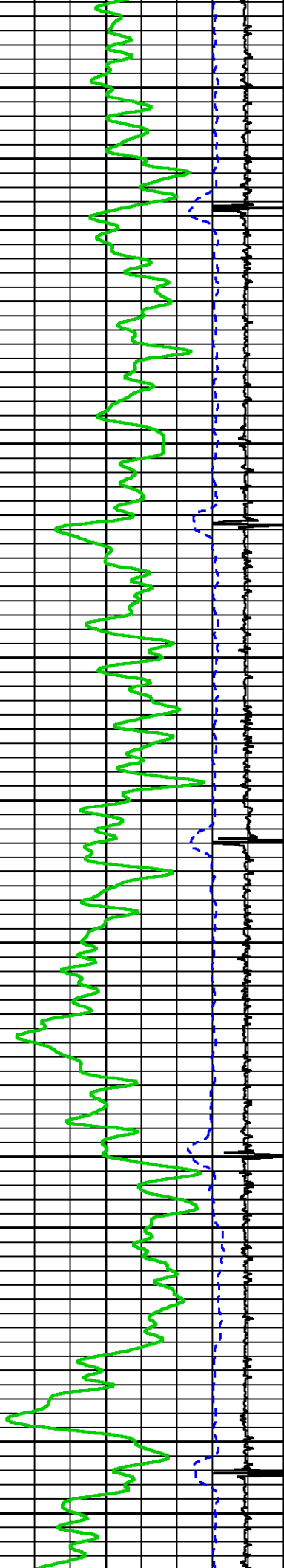




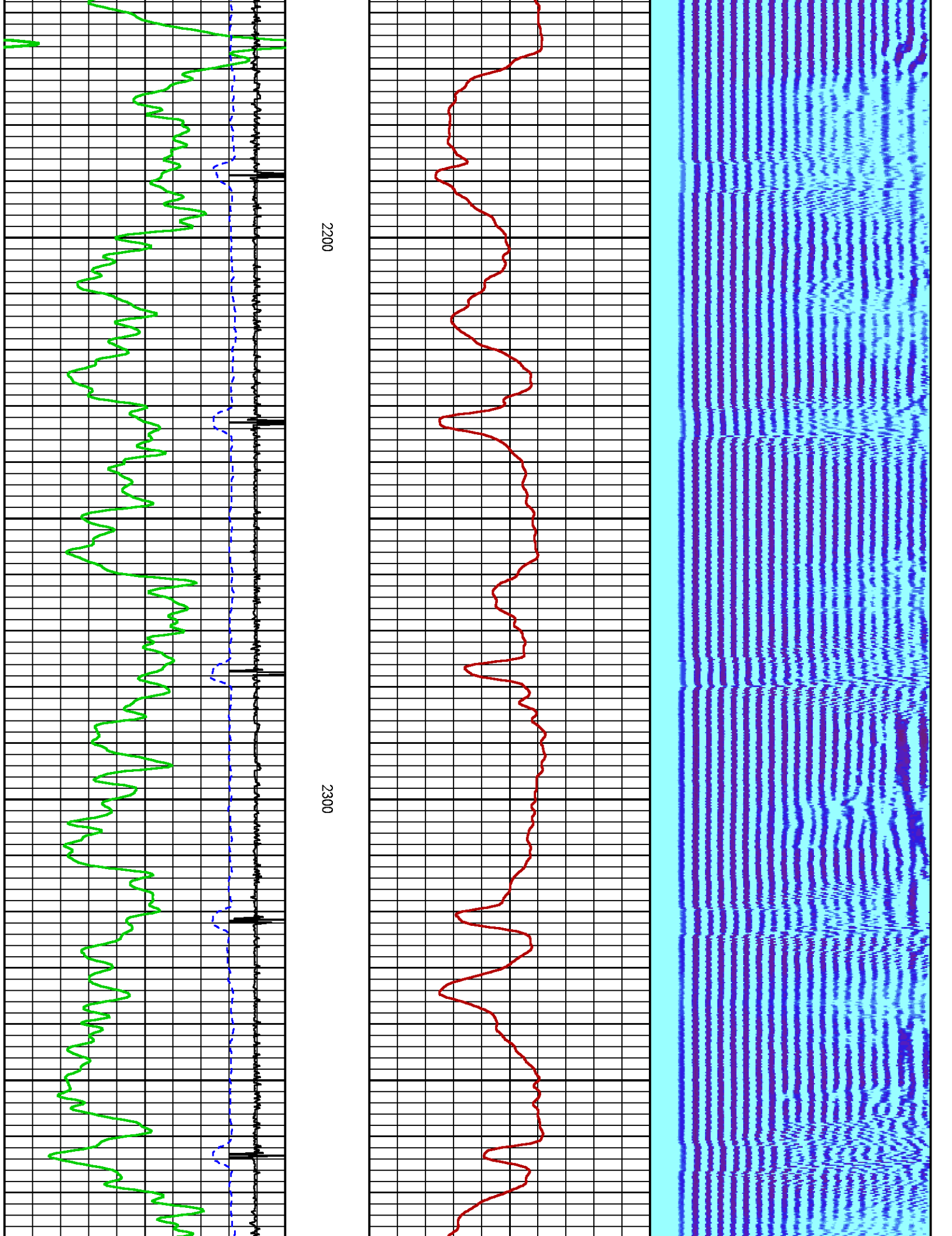


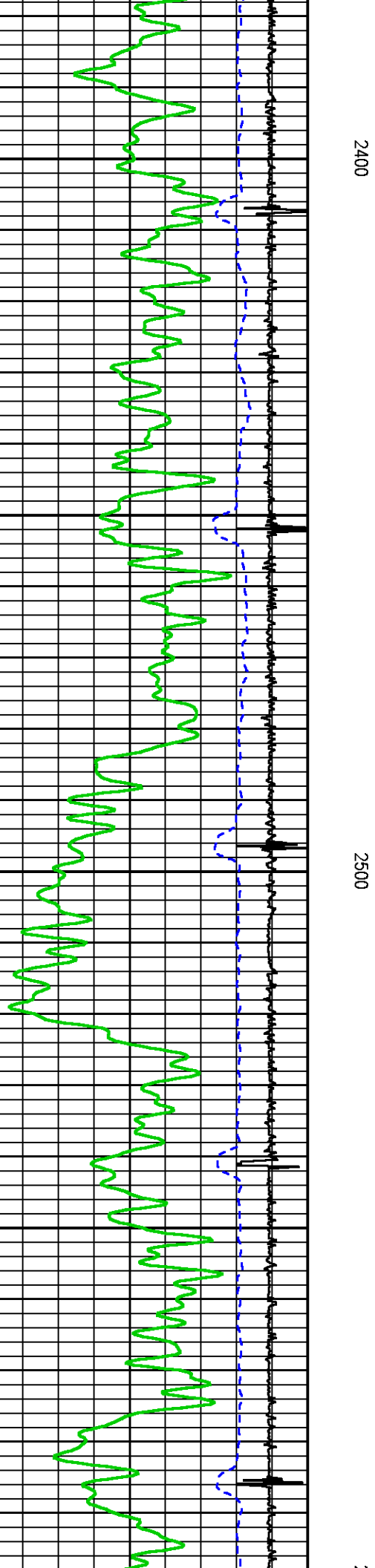
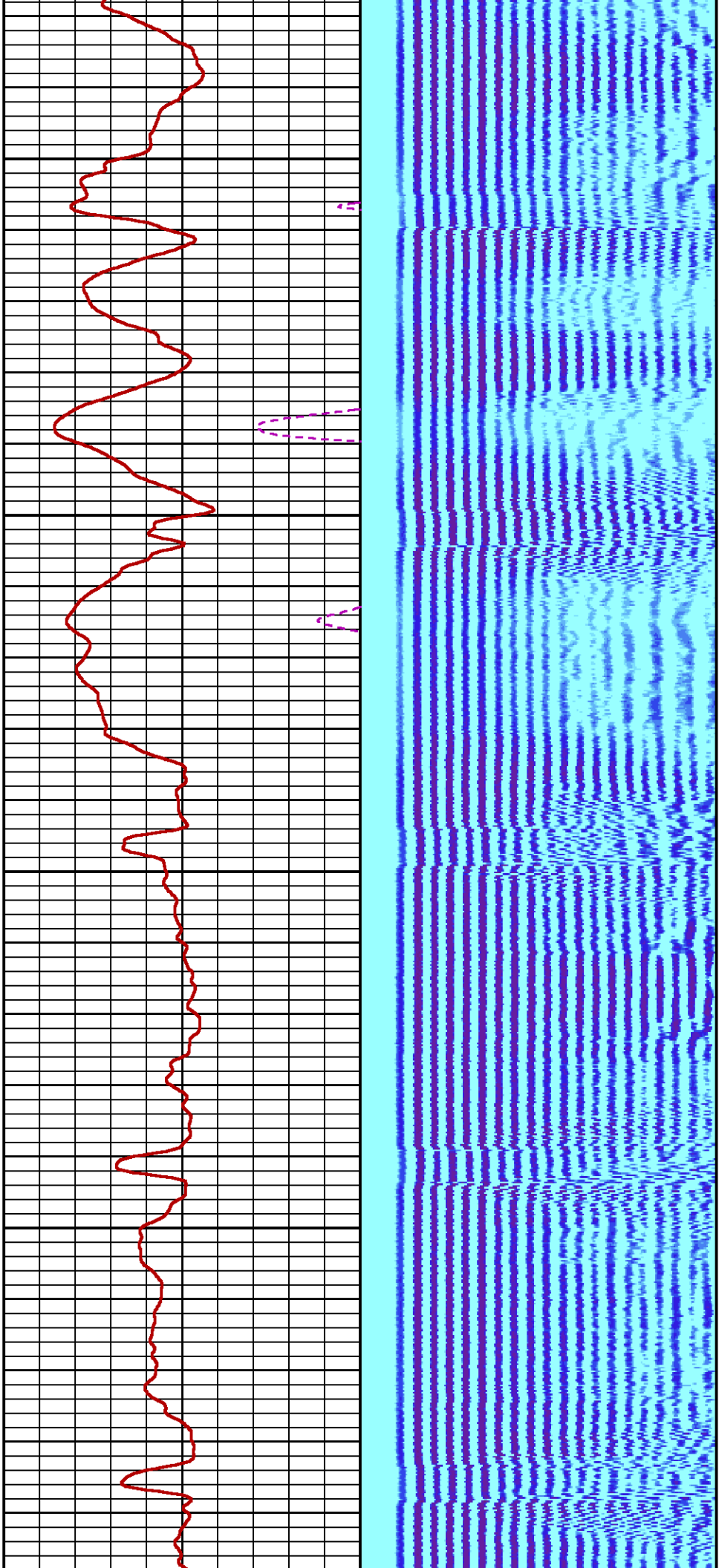
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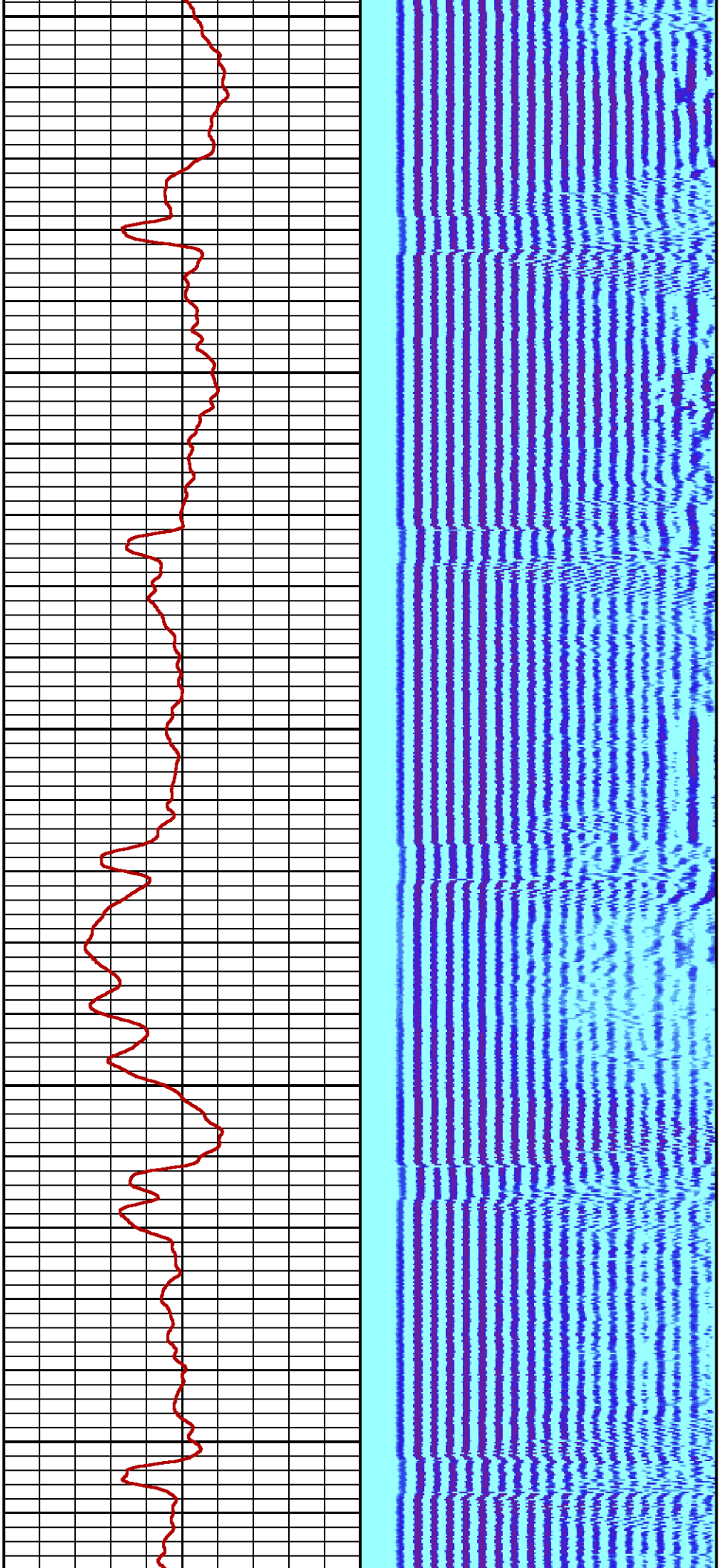
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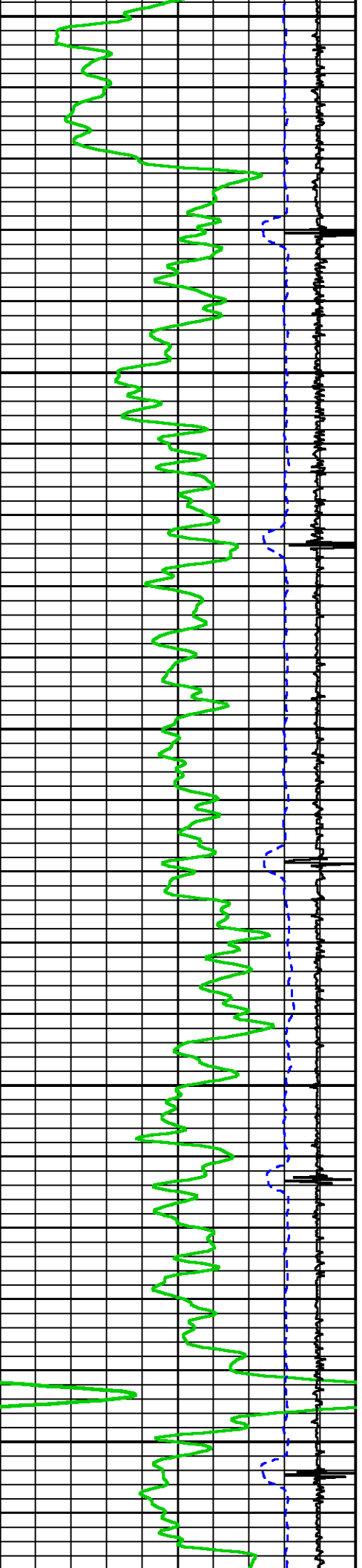




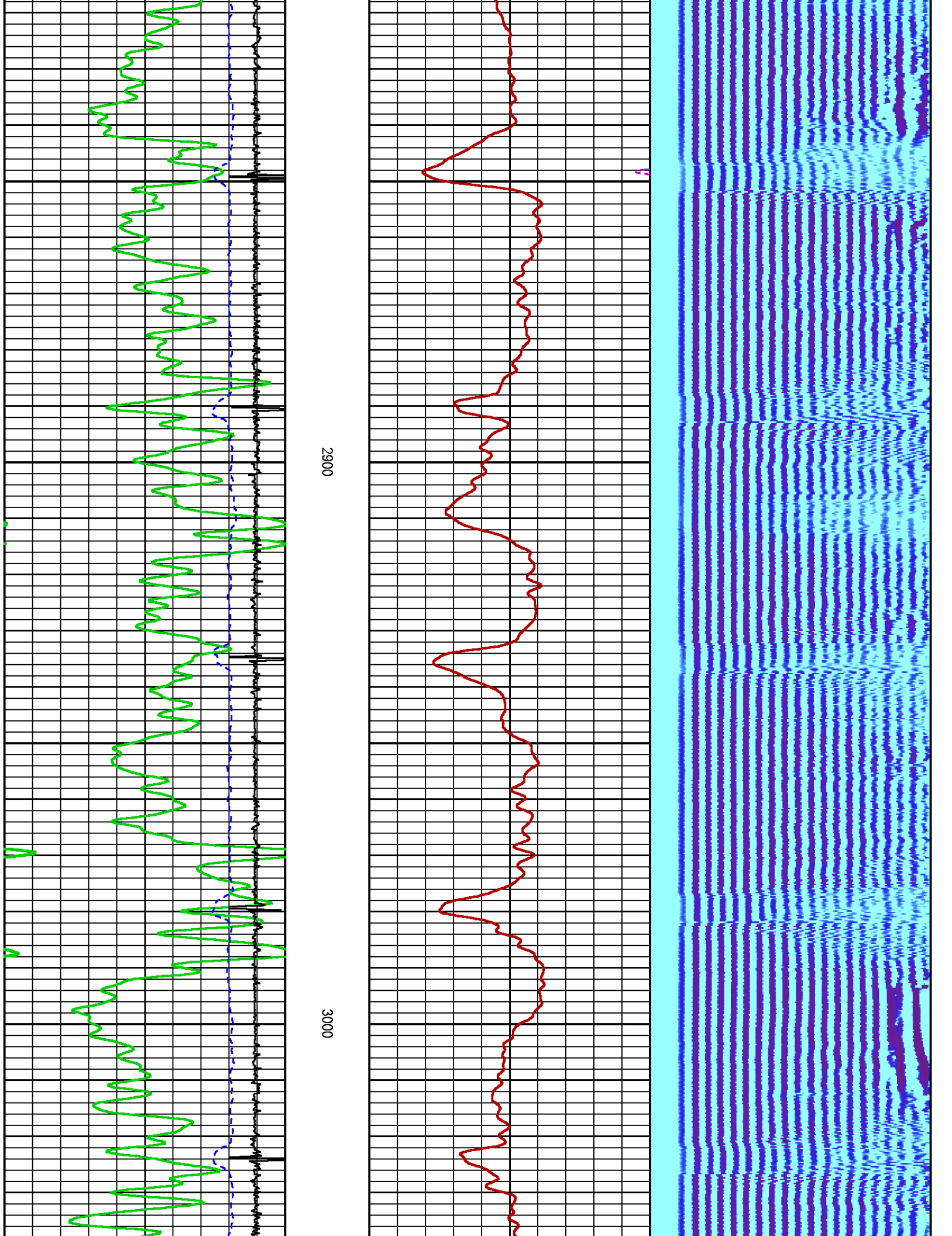
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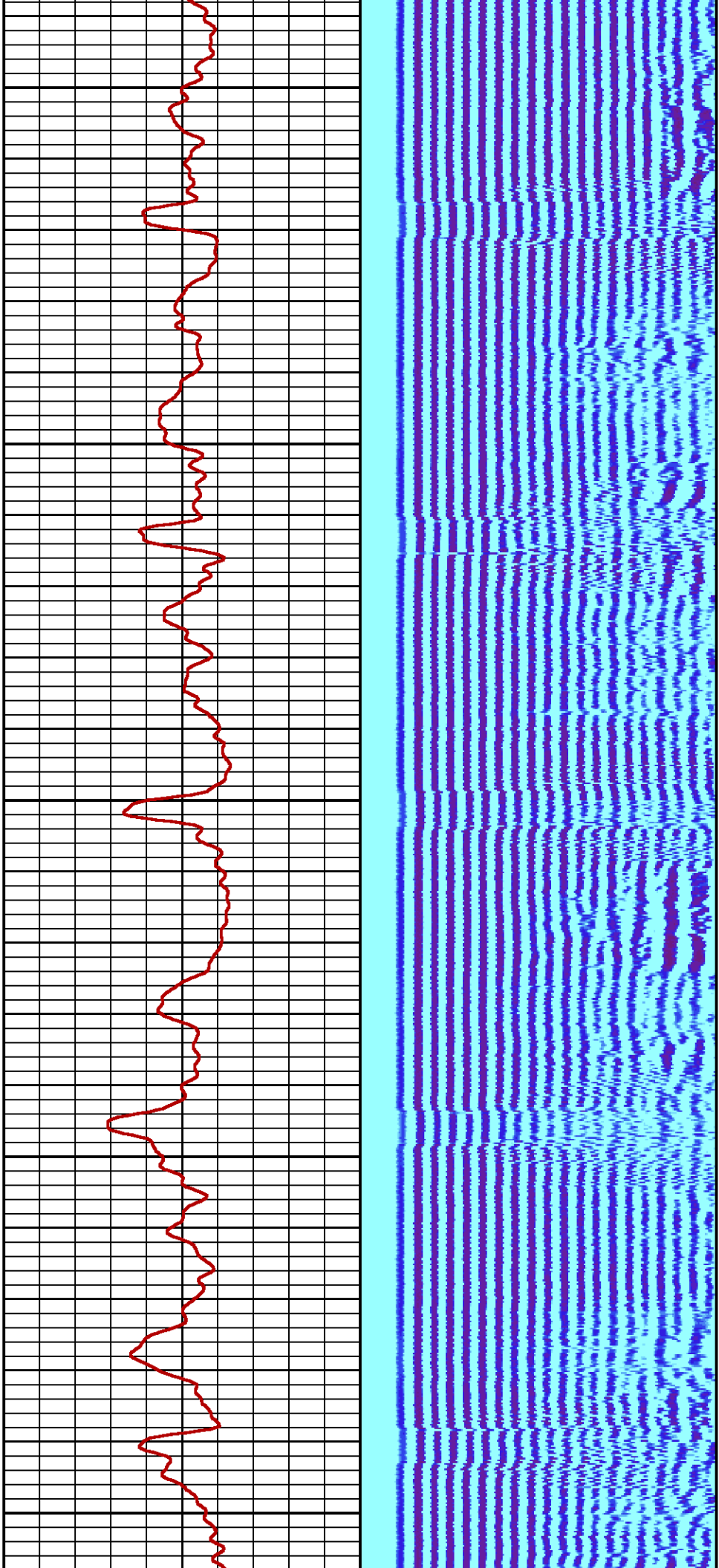
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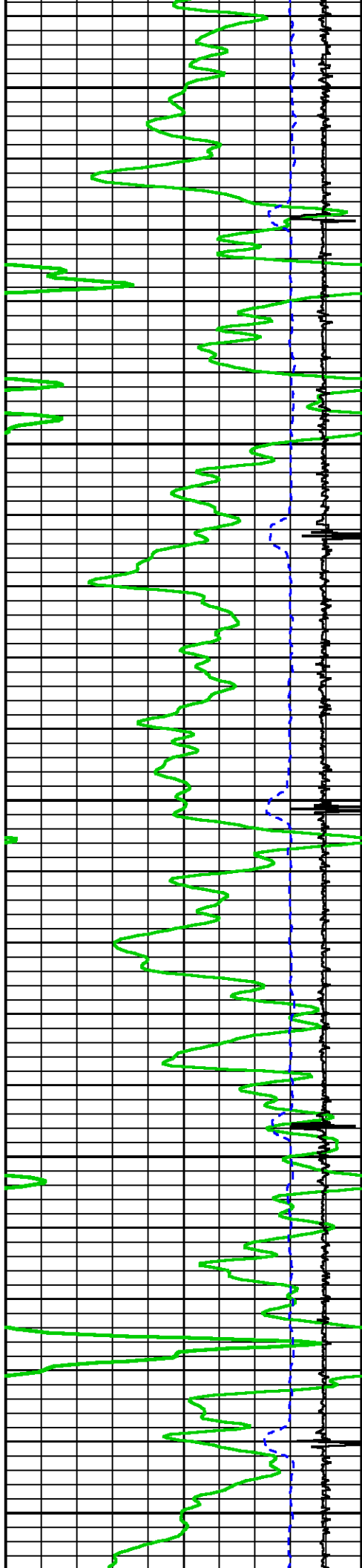


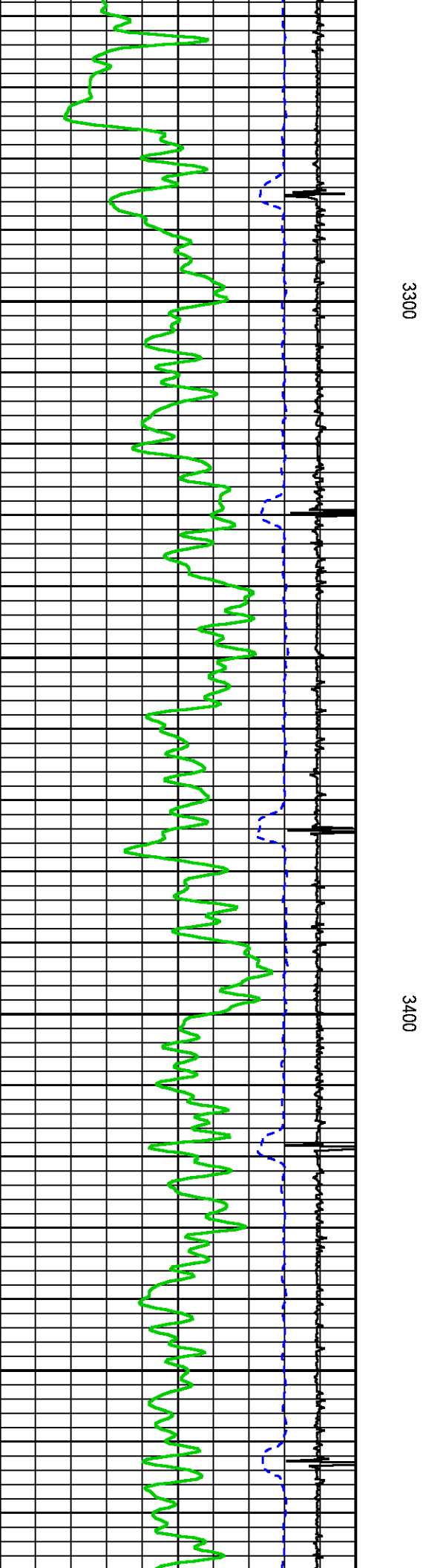
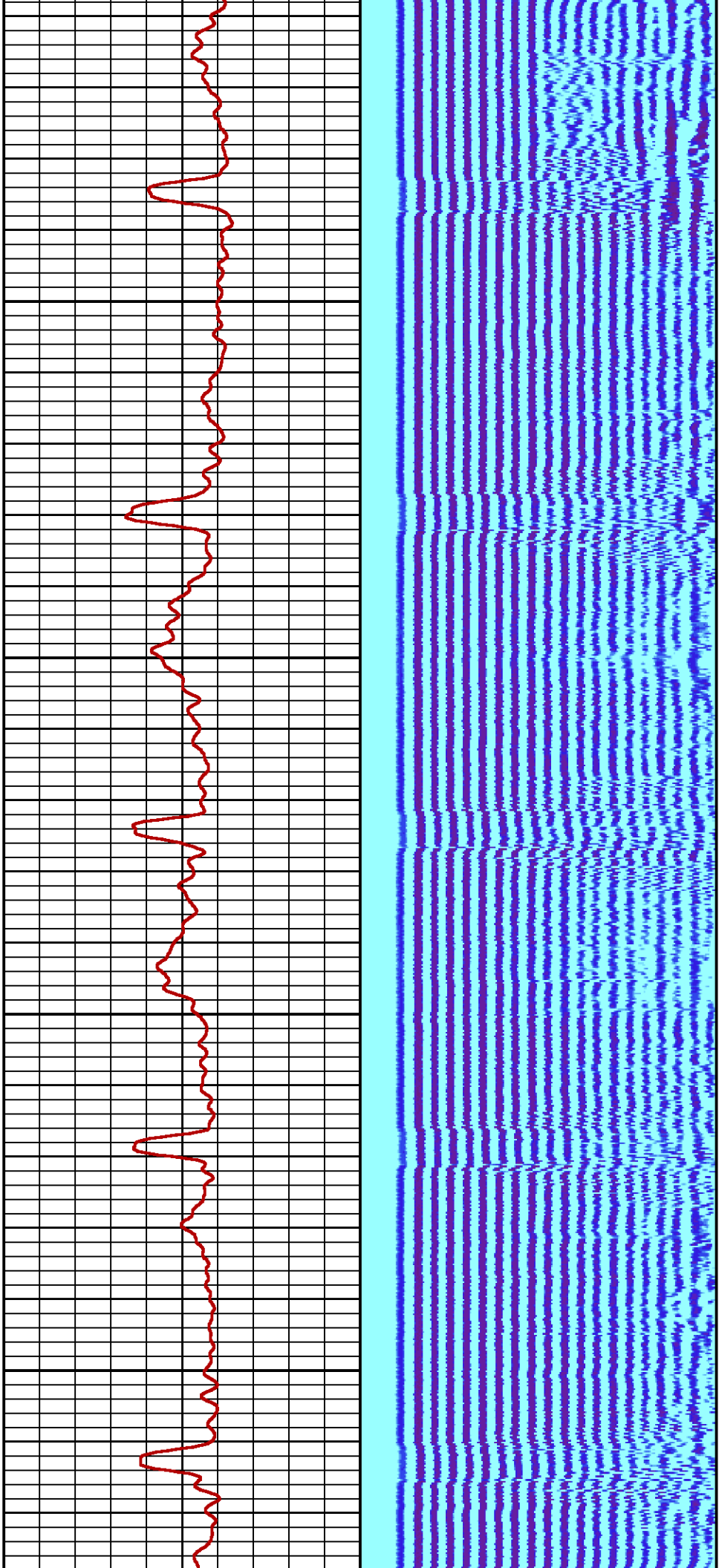


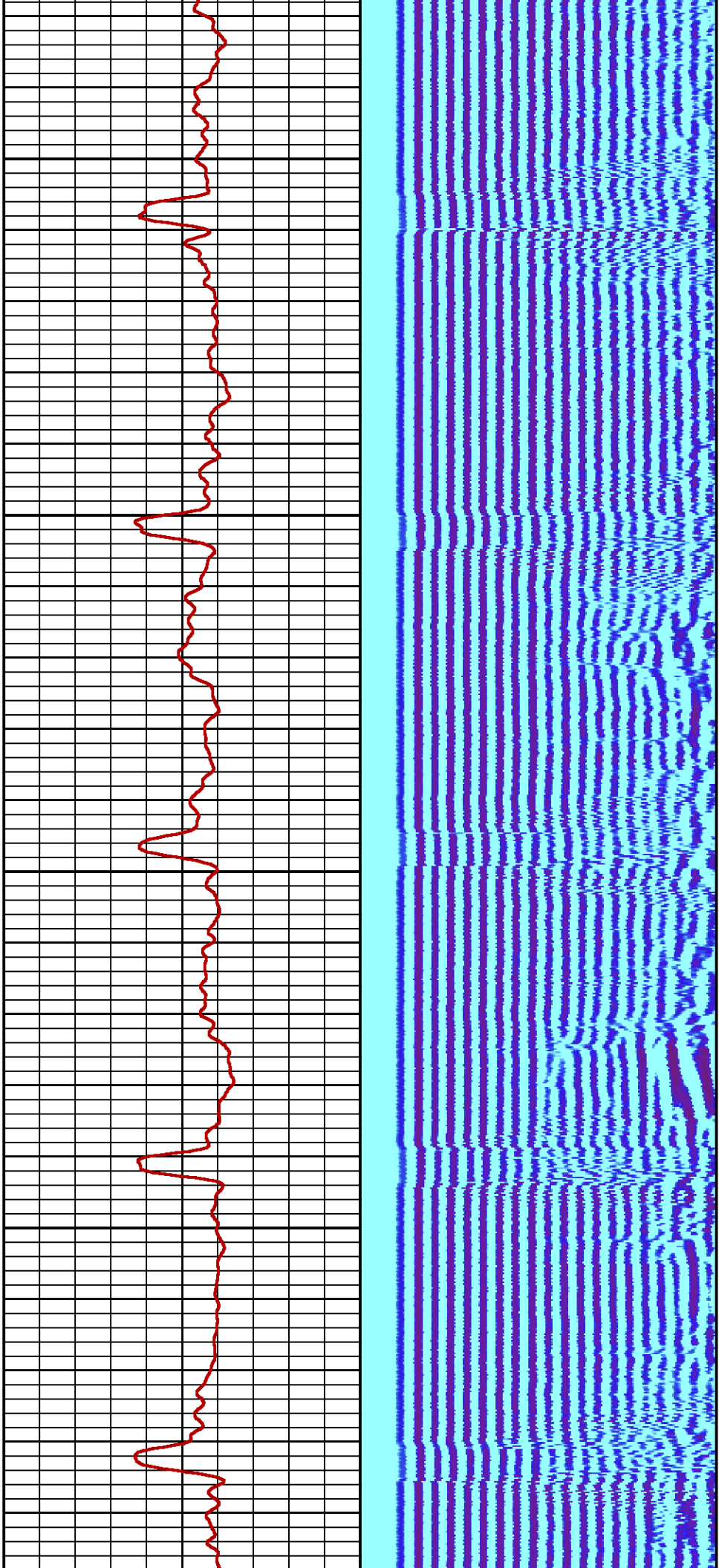


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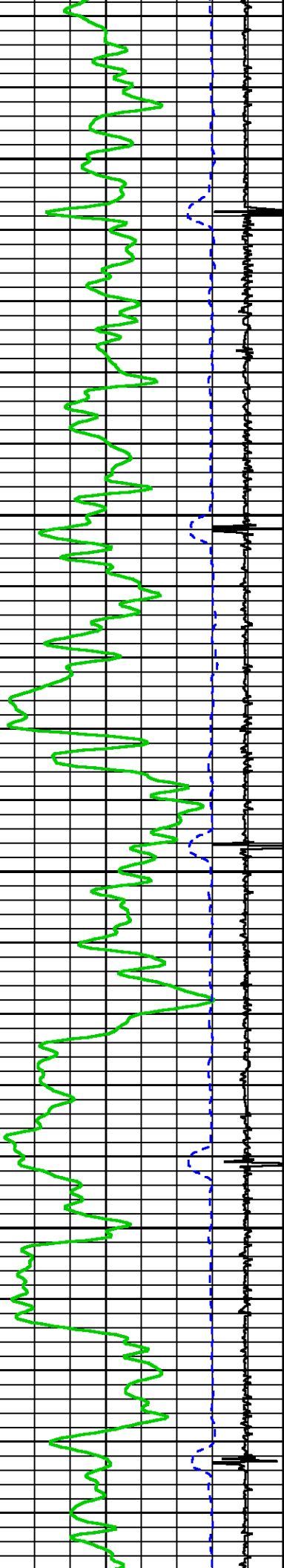




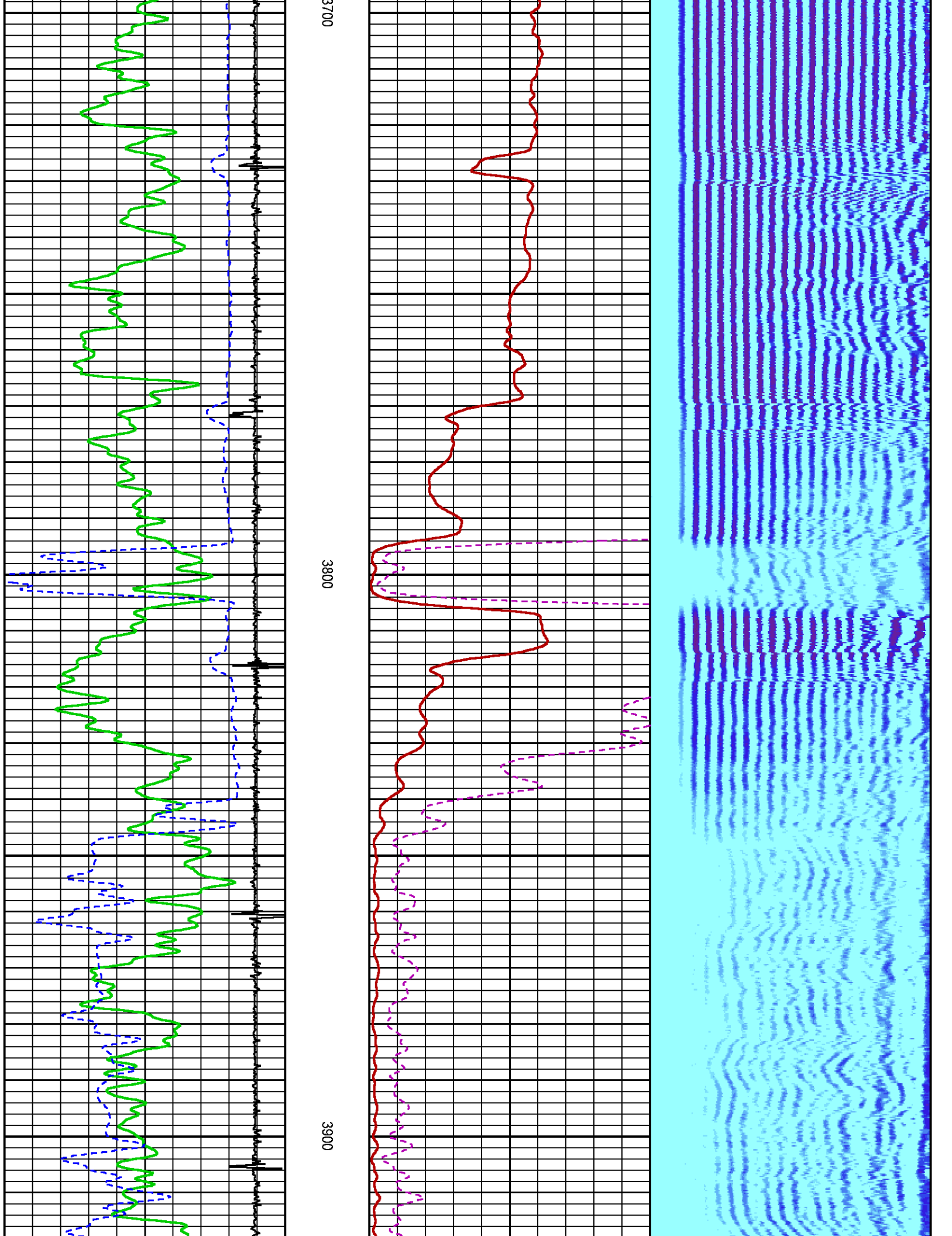


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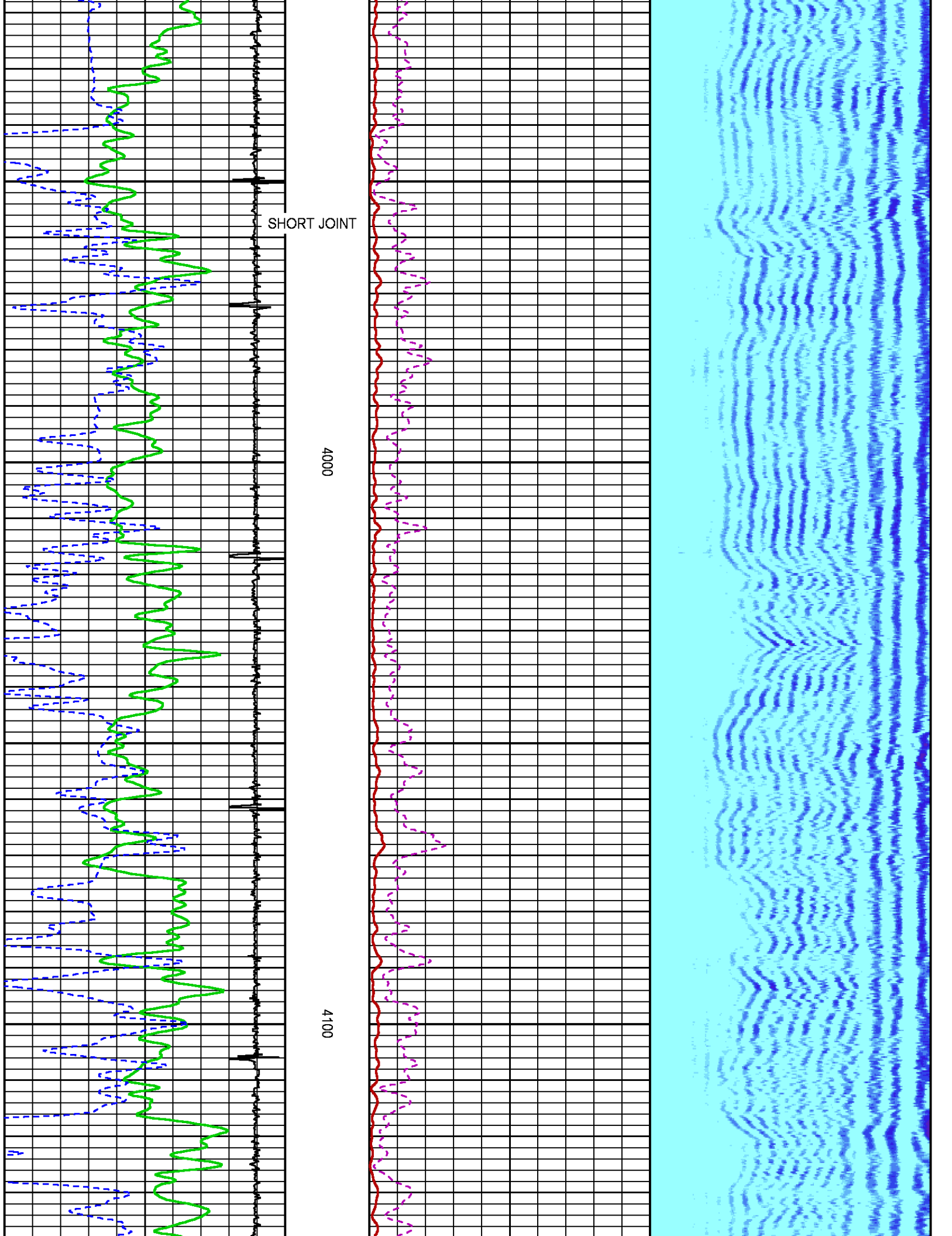
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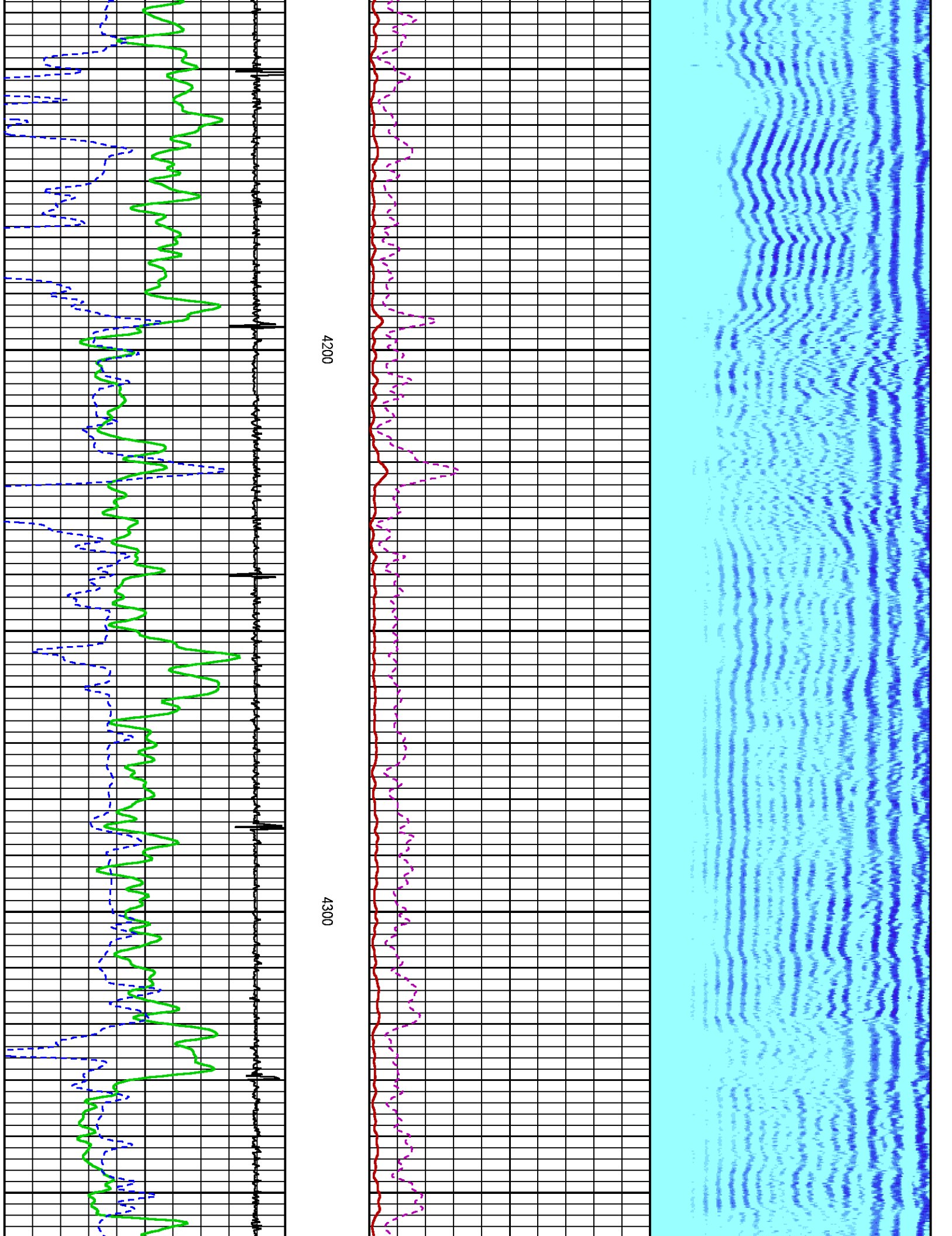


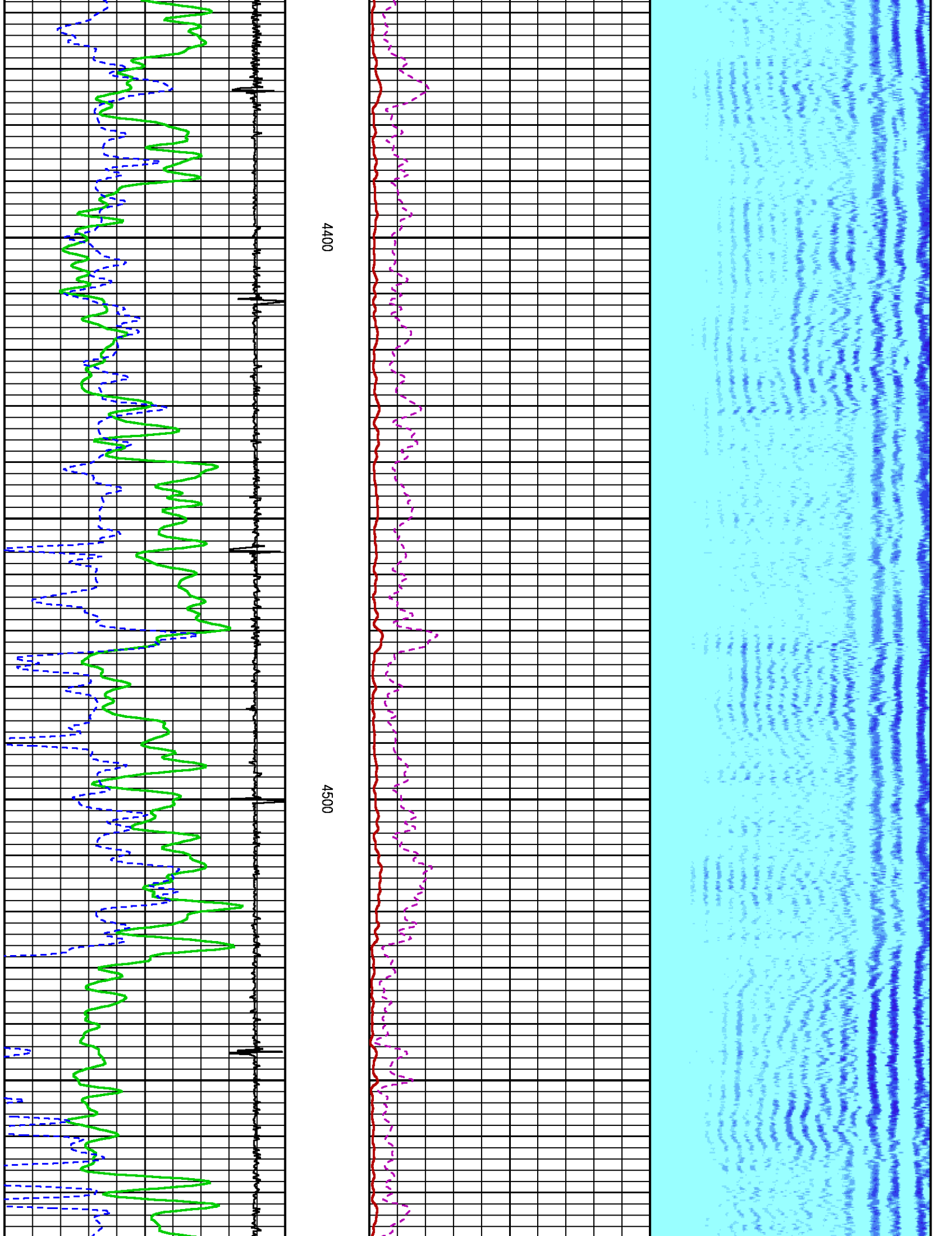


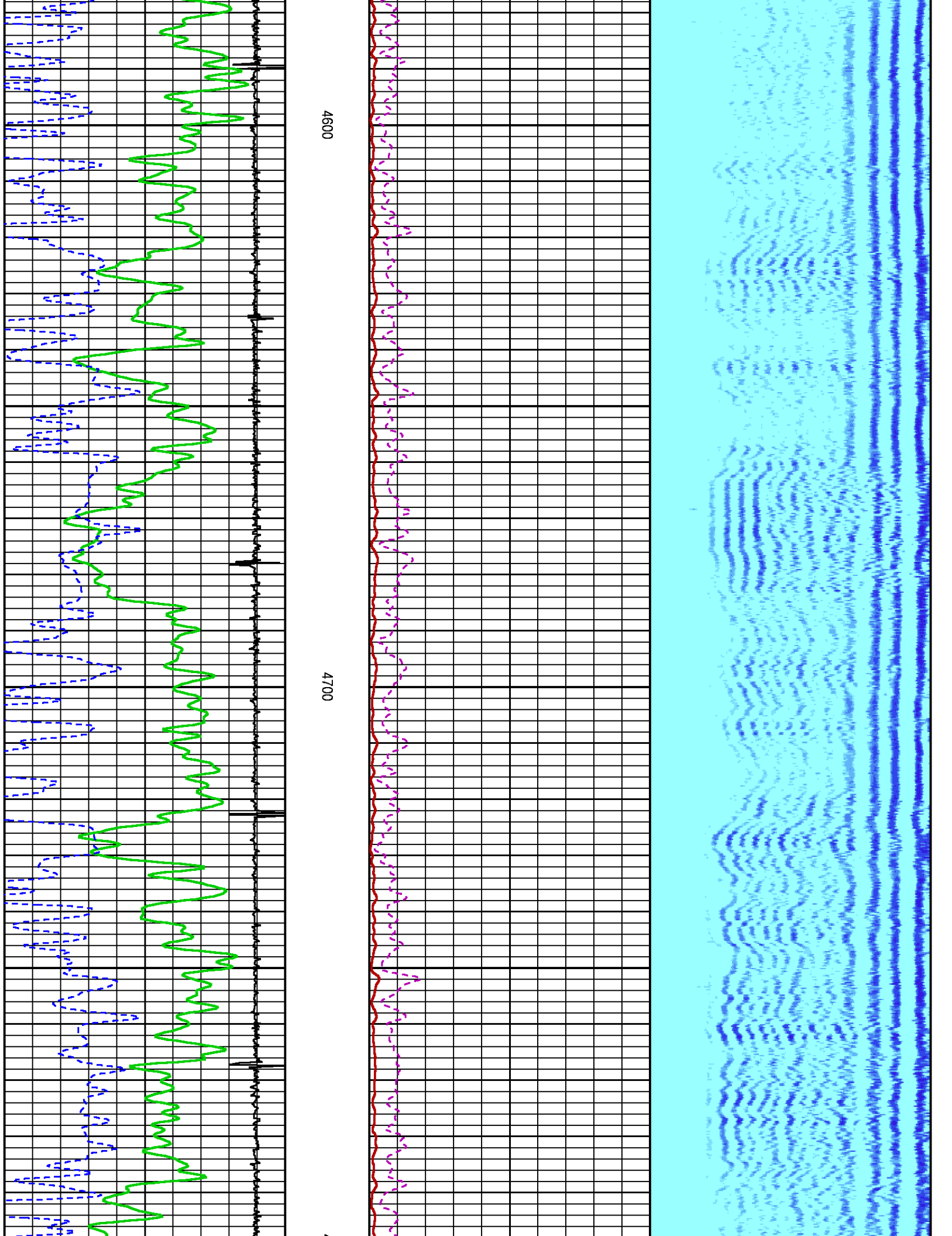




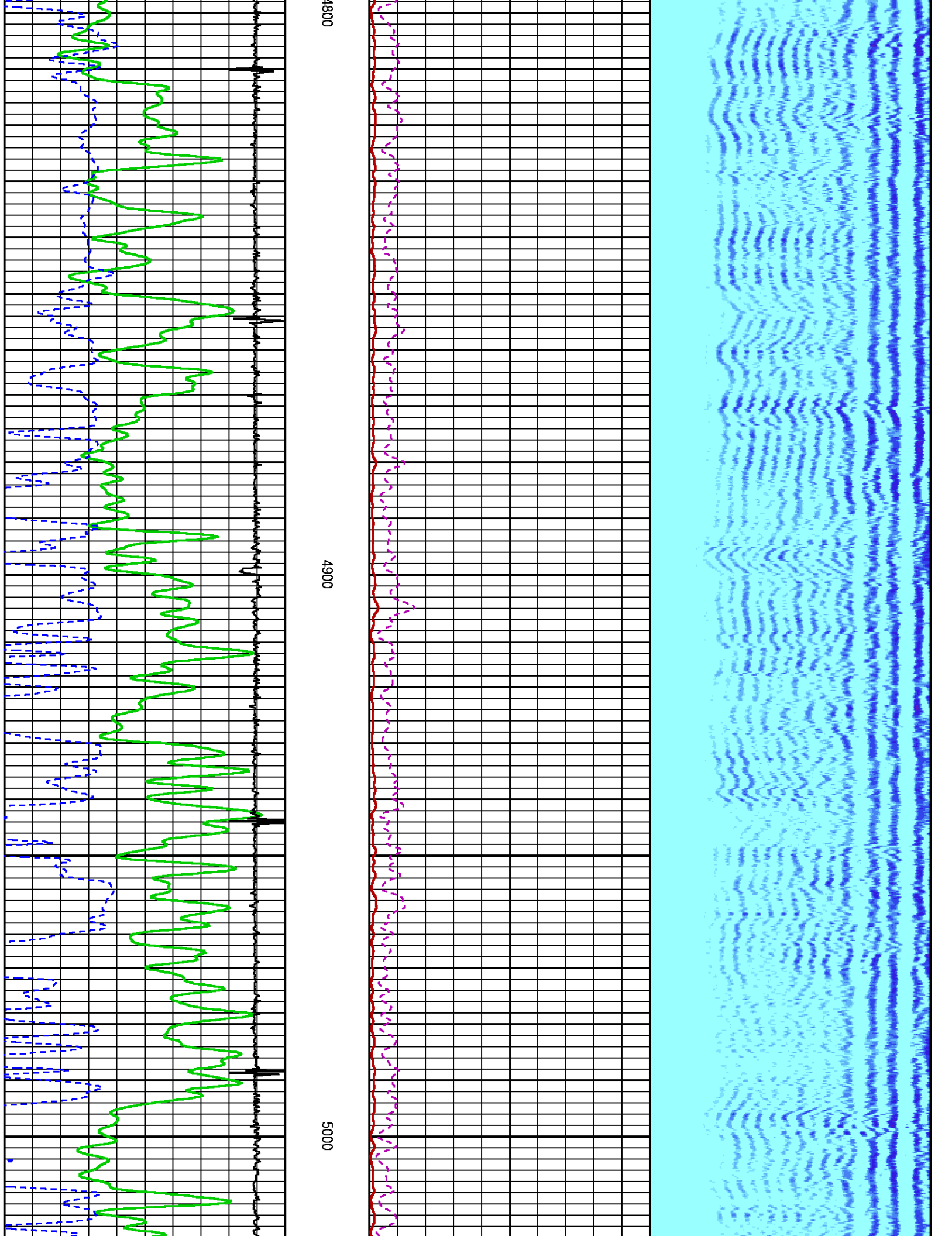


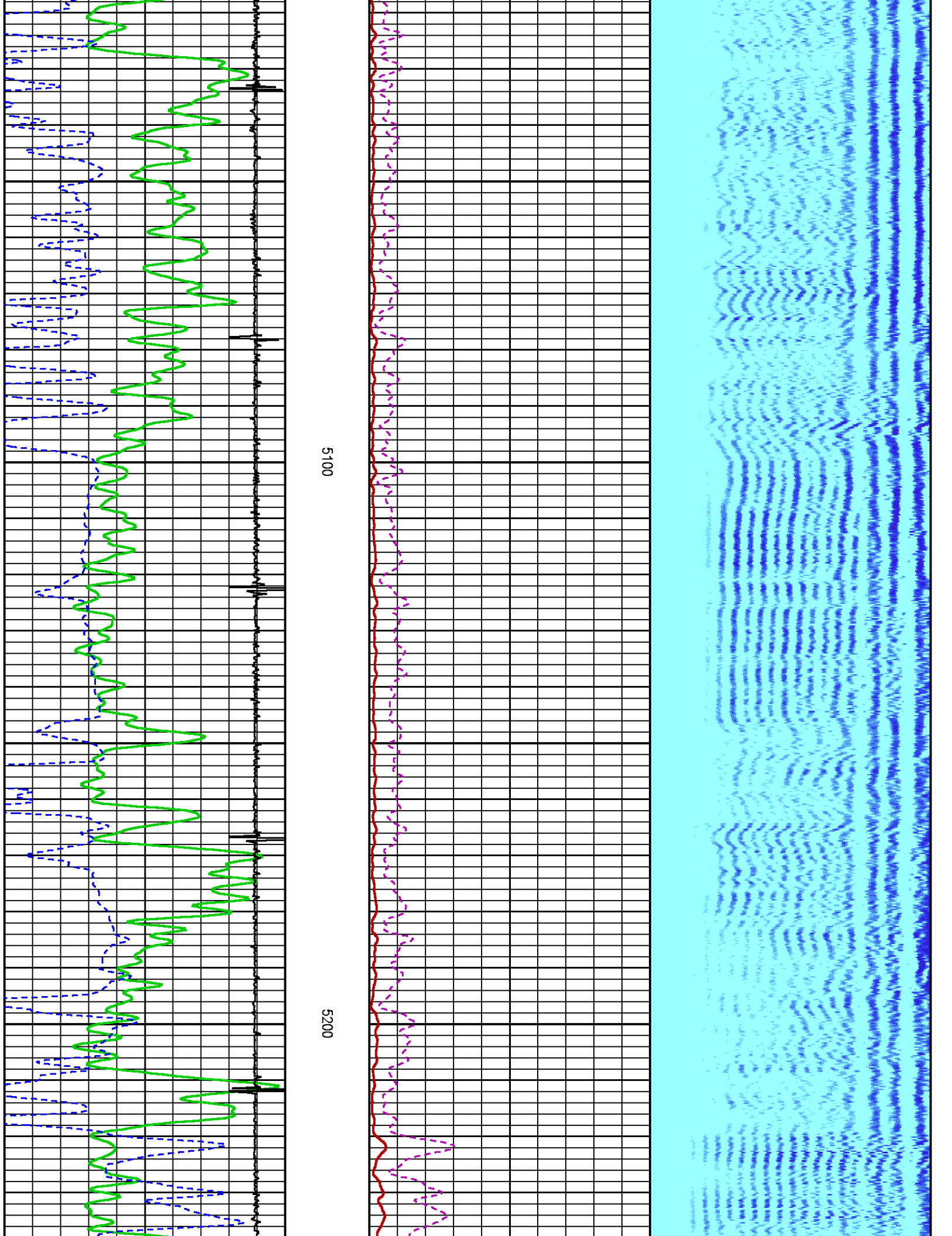


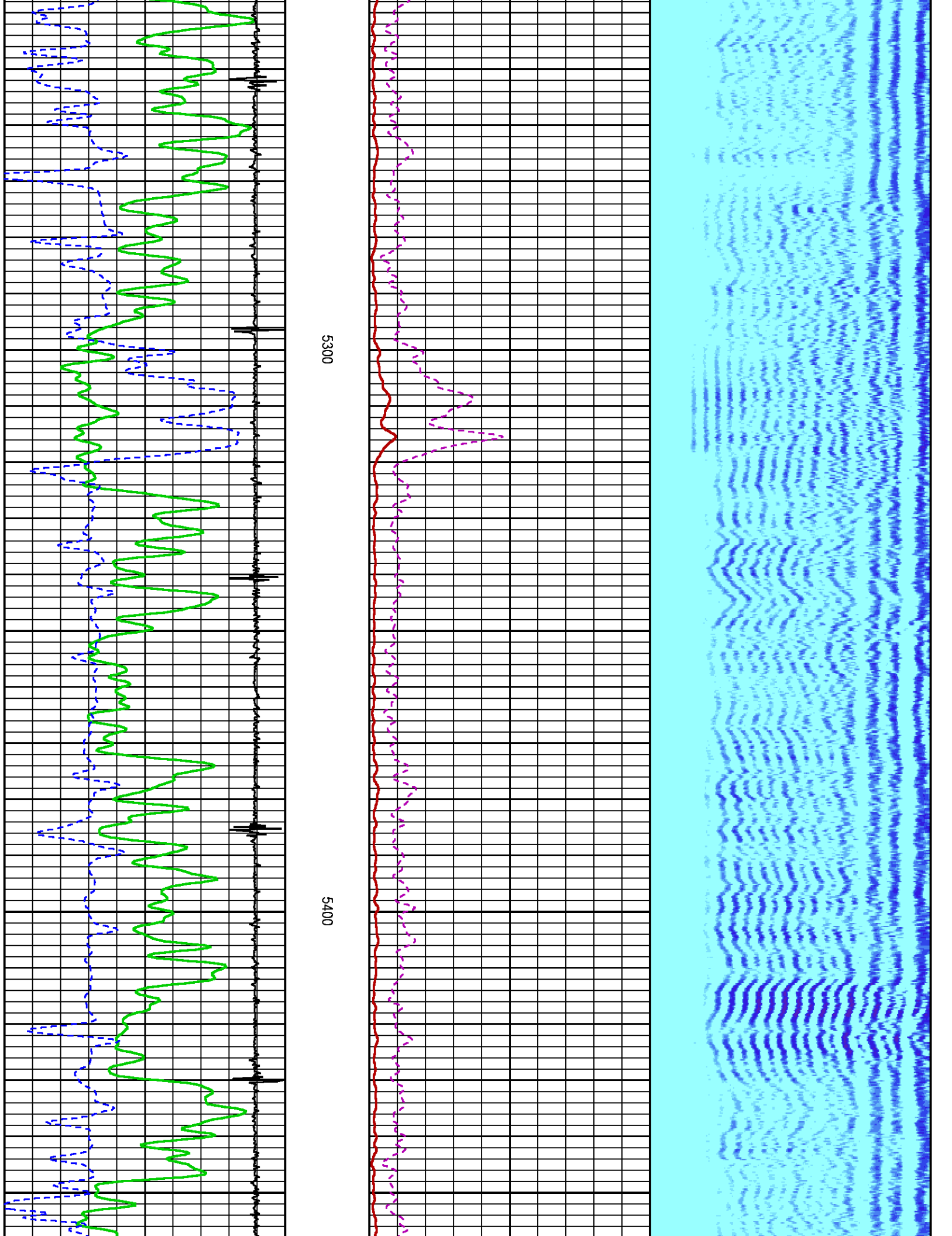


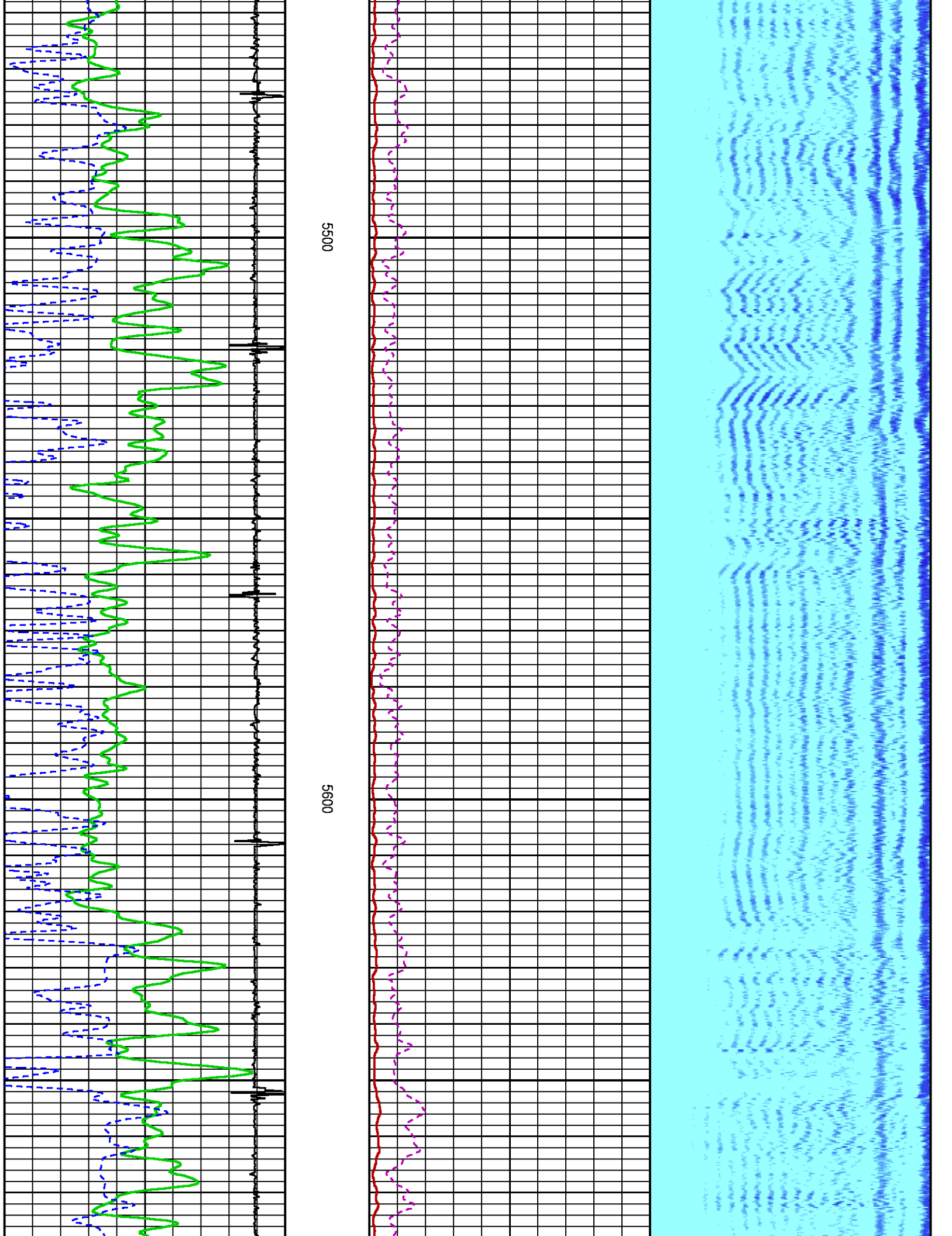




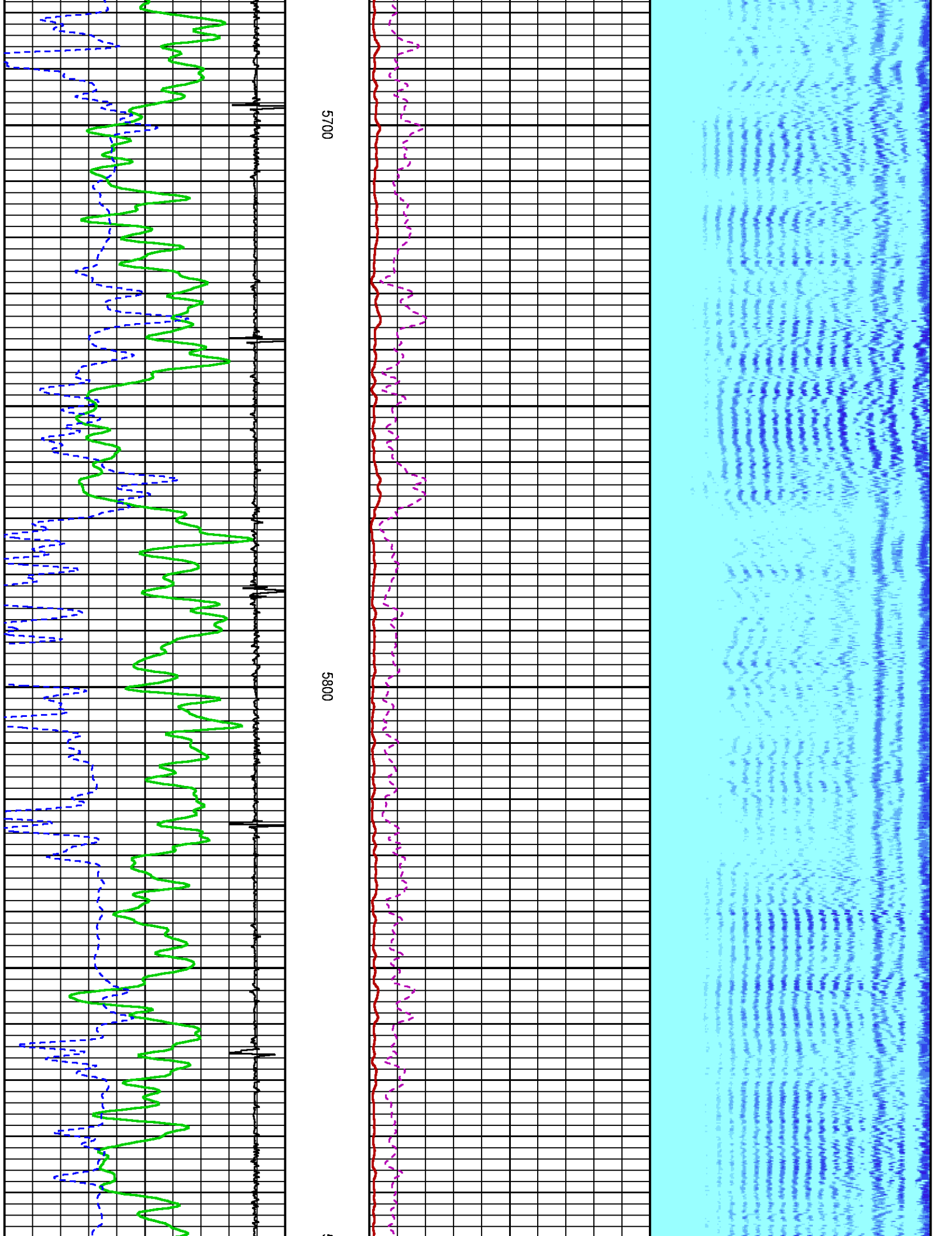


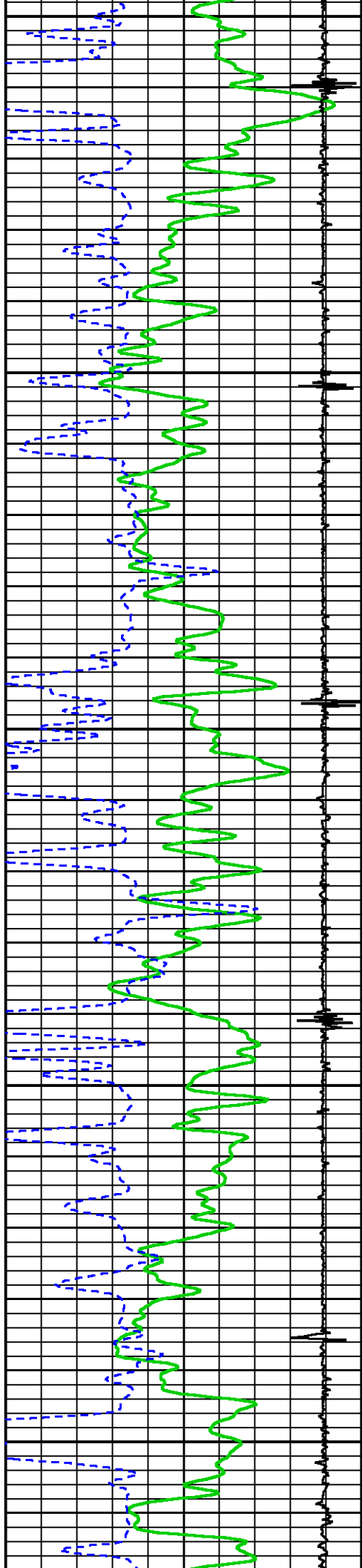








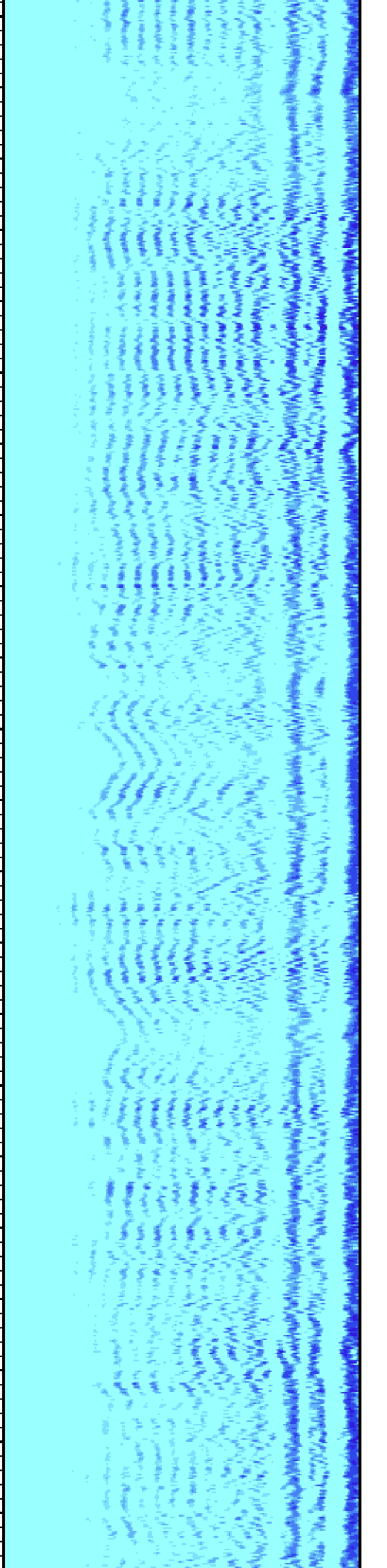
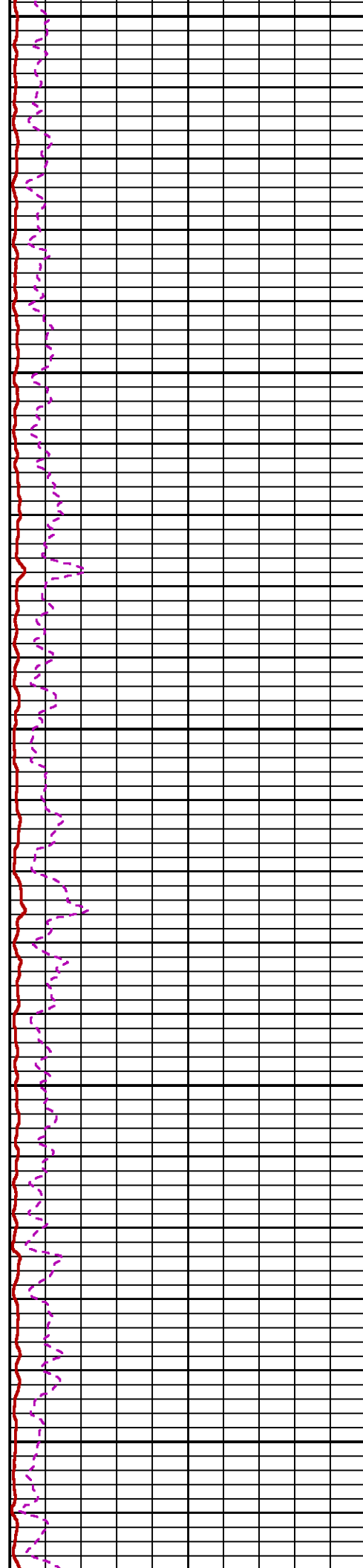


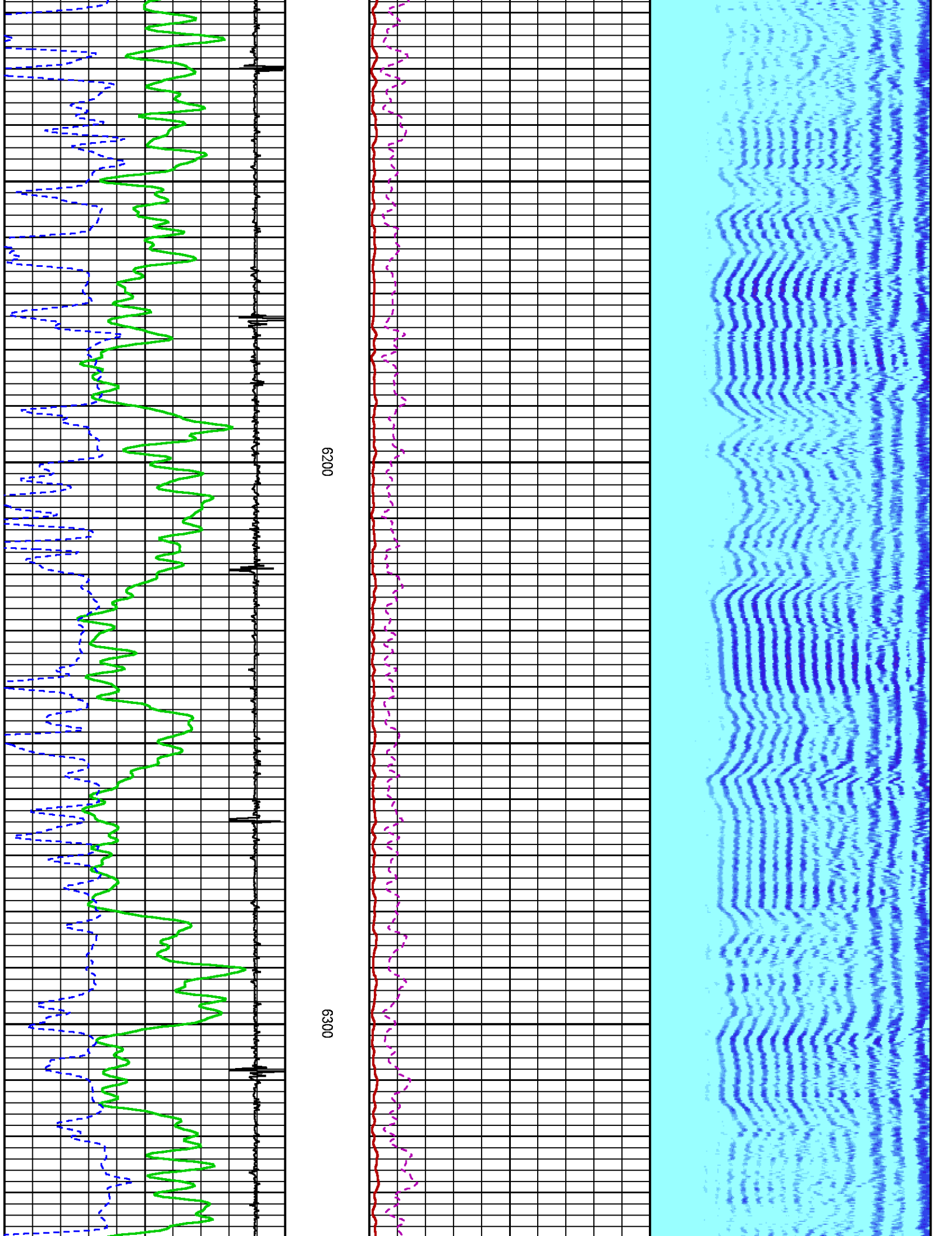


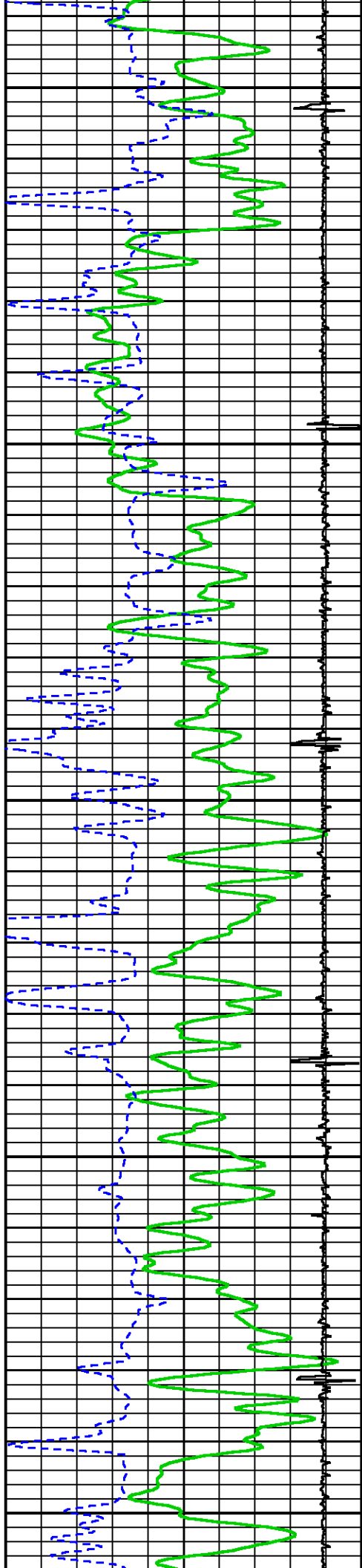
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5900

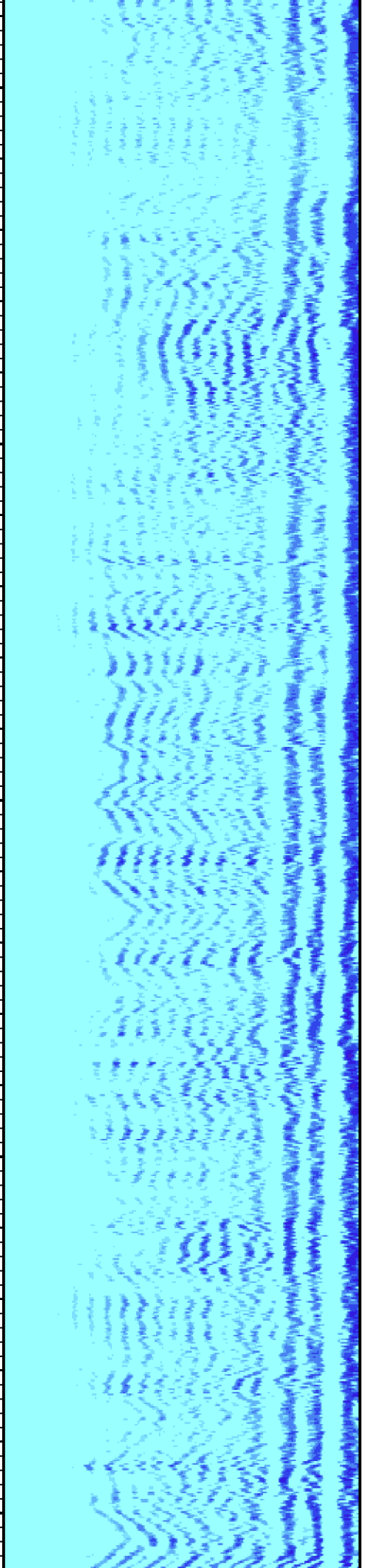
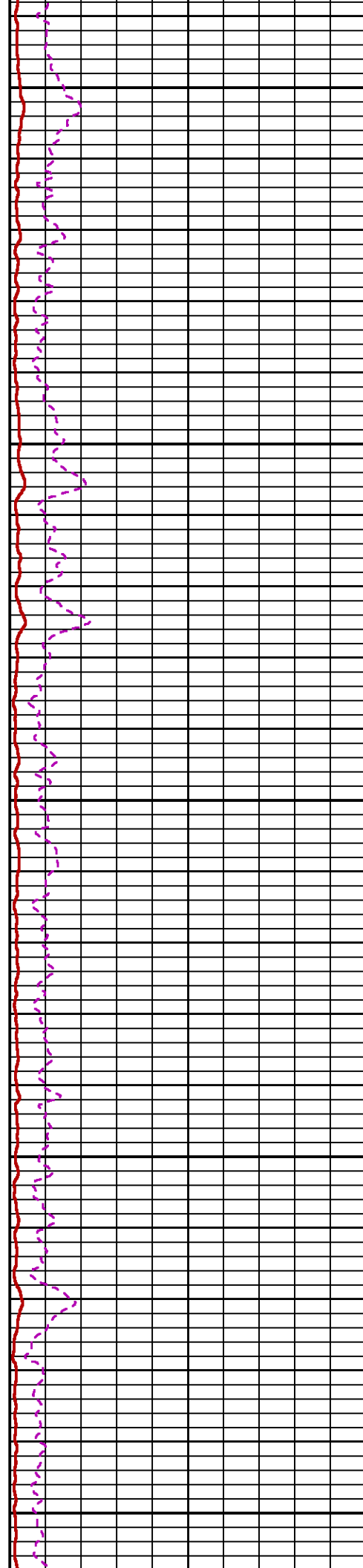




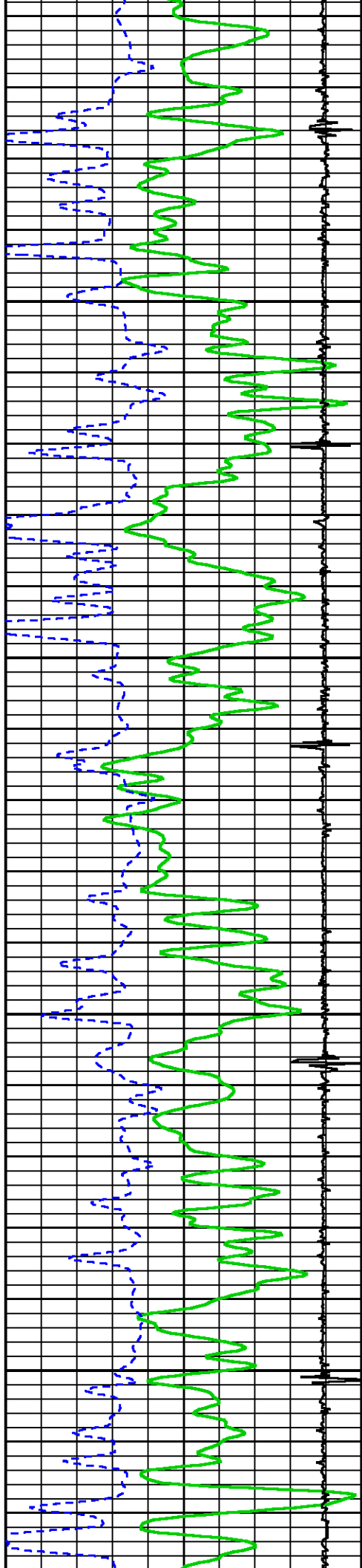


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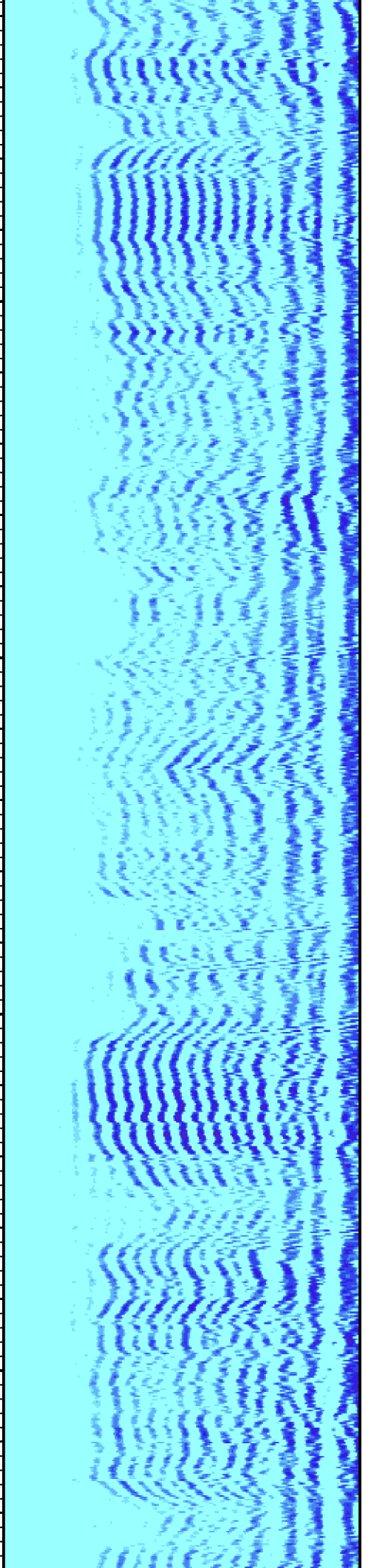
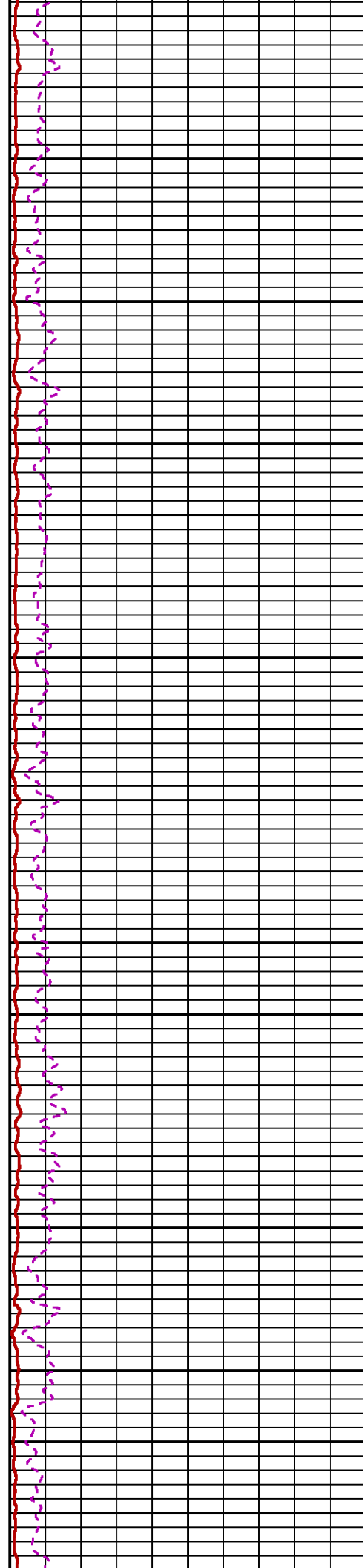


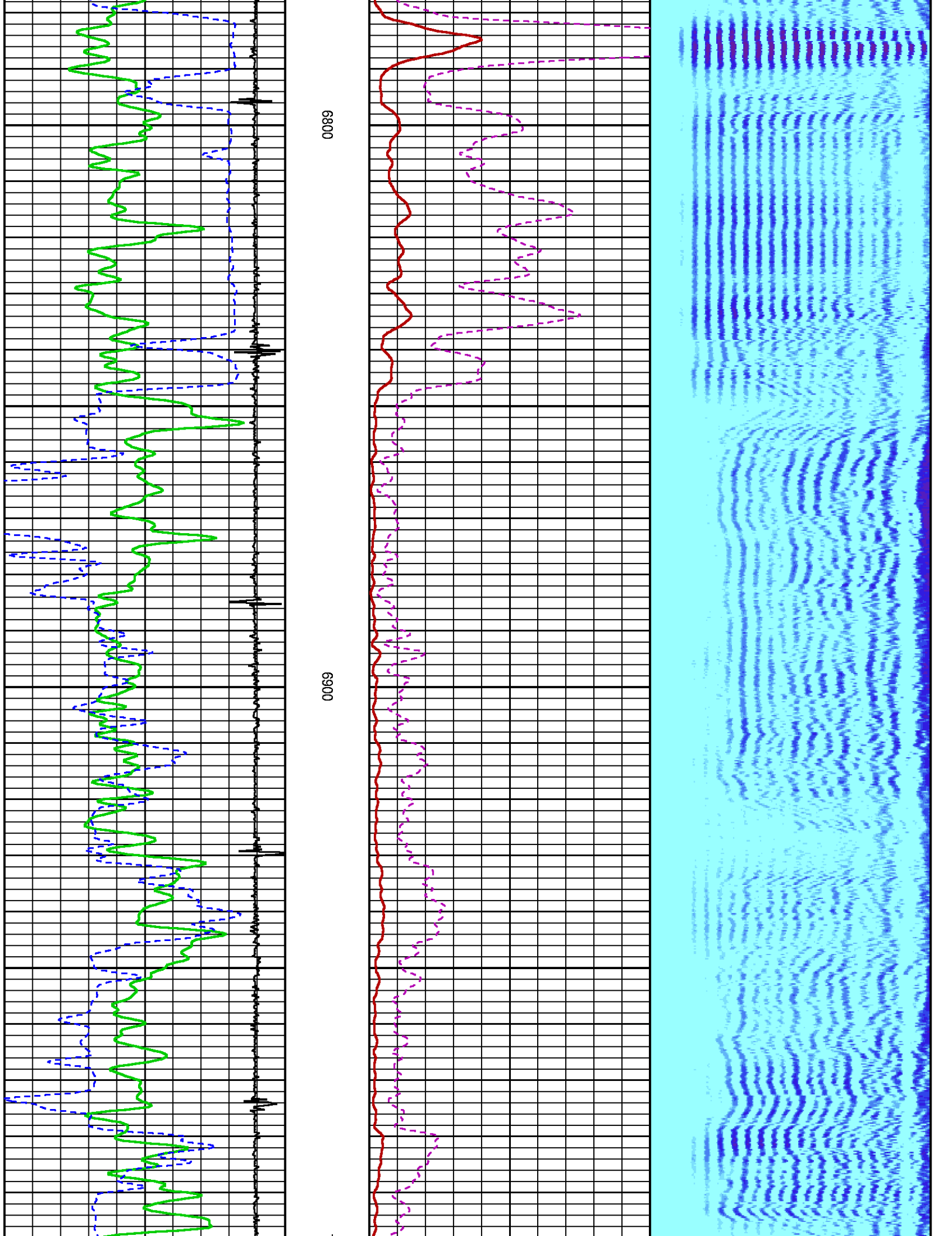


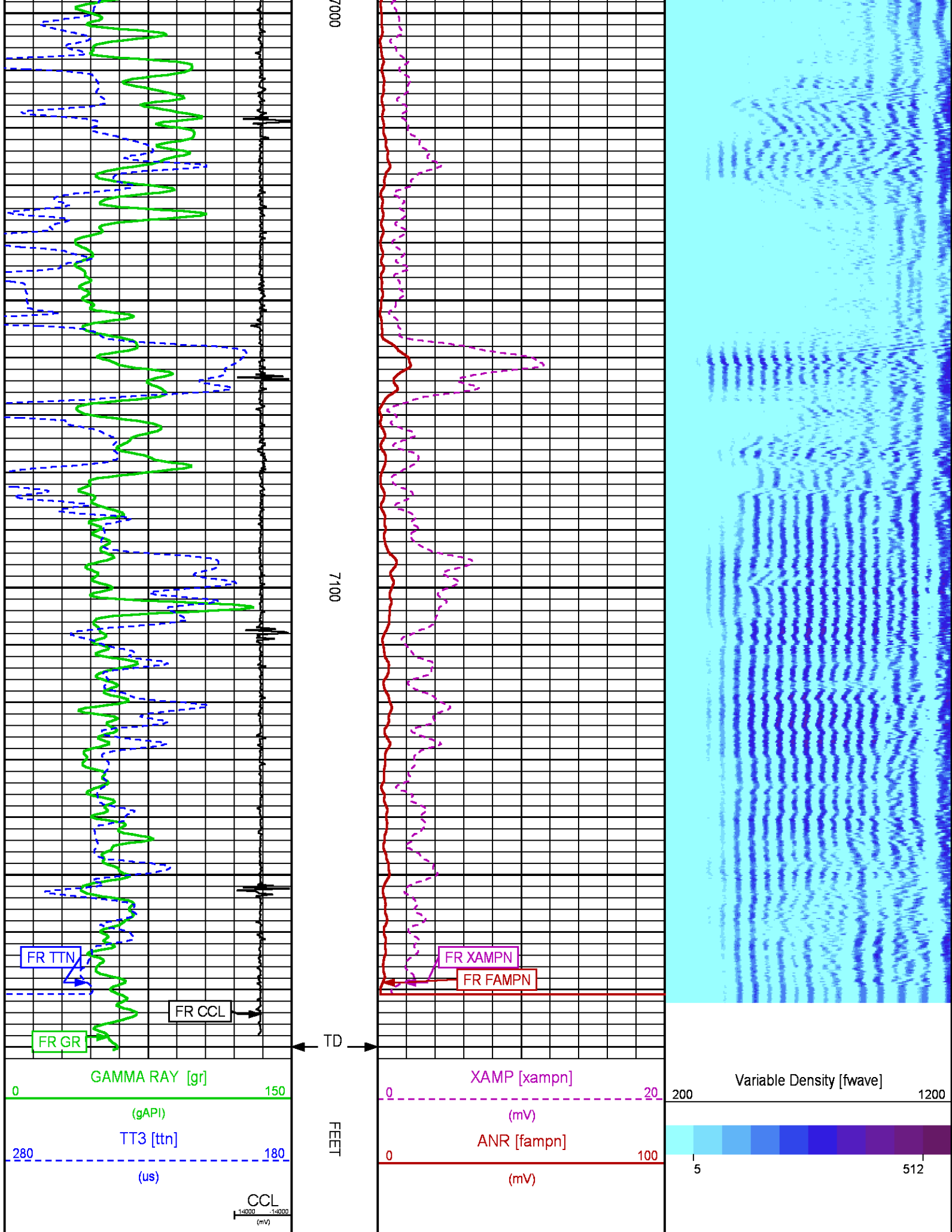


6600

6700







## SECONDARY PRESENTATION 0 PSI

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

Plotted: Thu Jun 23 09:15:19 2016

### PARAMETER AND FILTER SUMMARY REPORT

FILE: \dat1at\CH107930\012g02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 9.500 ft BOTTOM DEPTH: 7170.050 ft

#### SYMMETRIC FILTER

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

#### RAL CCL PROCESSING

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

#### ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	"	"
	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-67	us	"	"
	TOOL DELAY (str2*)	-67	us	"	"
	TOOL DELAY (str3*)	-67	us	"	"
	TOOL DELAY (str4*)	-67	us	"	"
	TOOL DELAY (str5*)	-67	us	"	"
	TOOL DELAY (str6*)	-67	us	"	"
	TOOL DELAY (str7*)	-67	us	"	"
	TOOL DELAY (str8*)	-67	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-67	us	"	"
	NOISE WINDOW START	121	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

#### PERCENT BOND CEMENT MAP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	81	mV	TOP	BOTTOM
	FREE AMP REC 2	81	mV	"	"
	FREE AMP REC 3	81	mV	"	"
	FREE AMP REC 4	81	mV	"	"
	FREE AMP REC 5	81	mV	"	"
	FREE AMP REC 6	81	mV	"	"
	FREE AMP REC 7	81	mV	"	"
	FREE AMP REC 8	81	mV	"	"



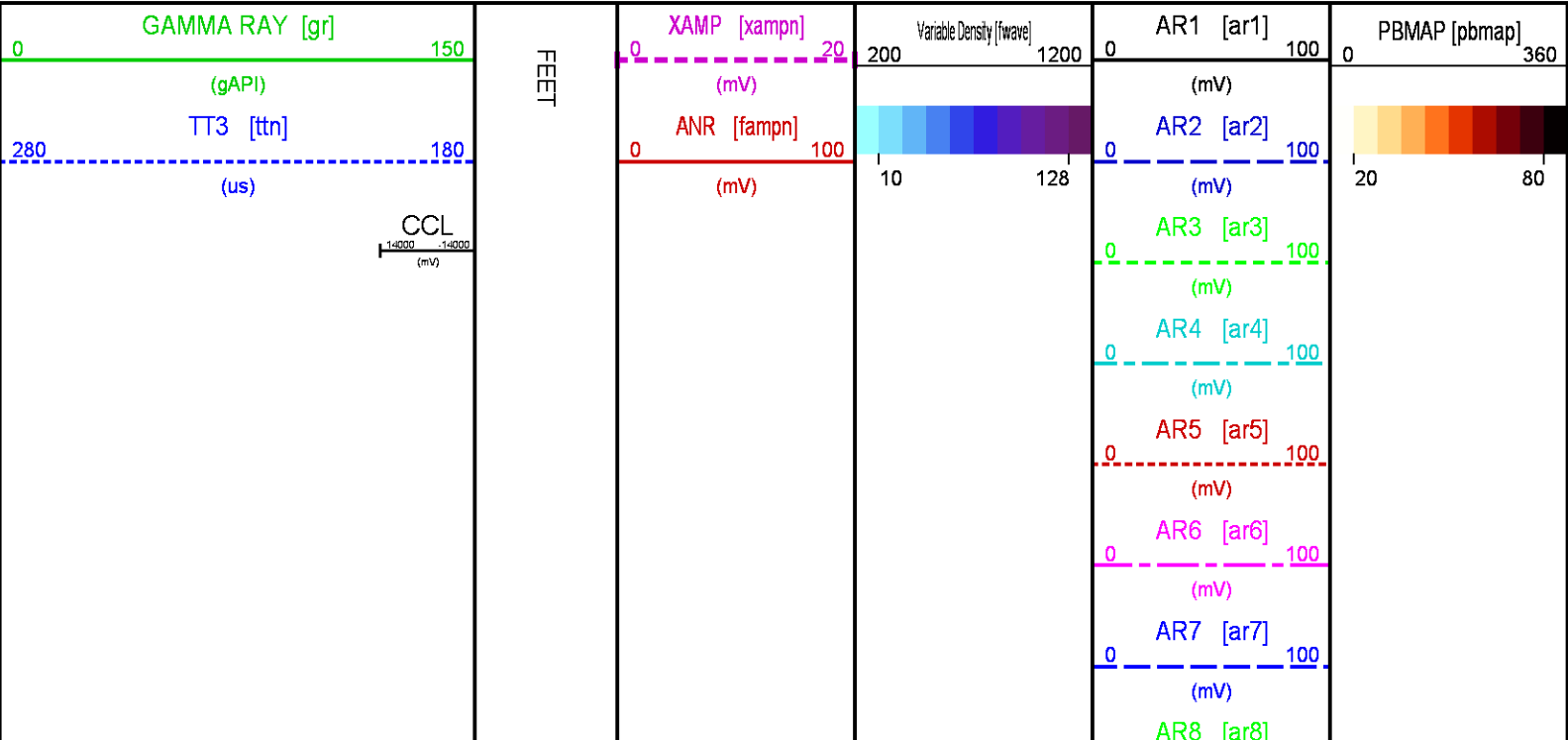
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

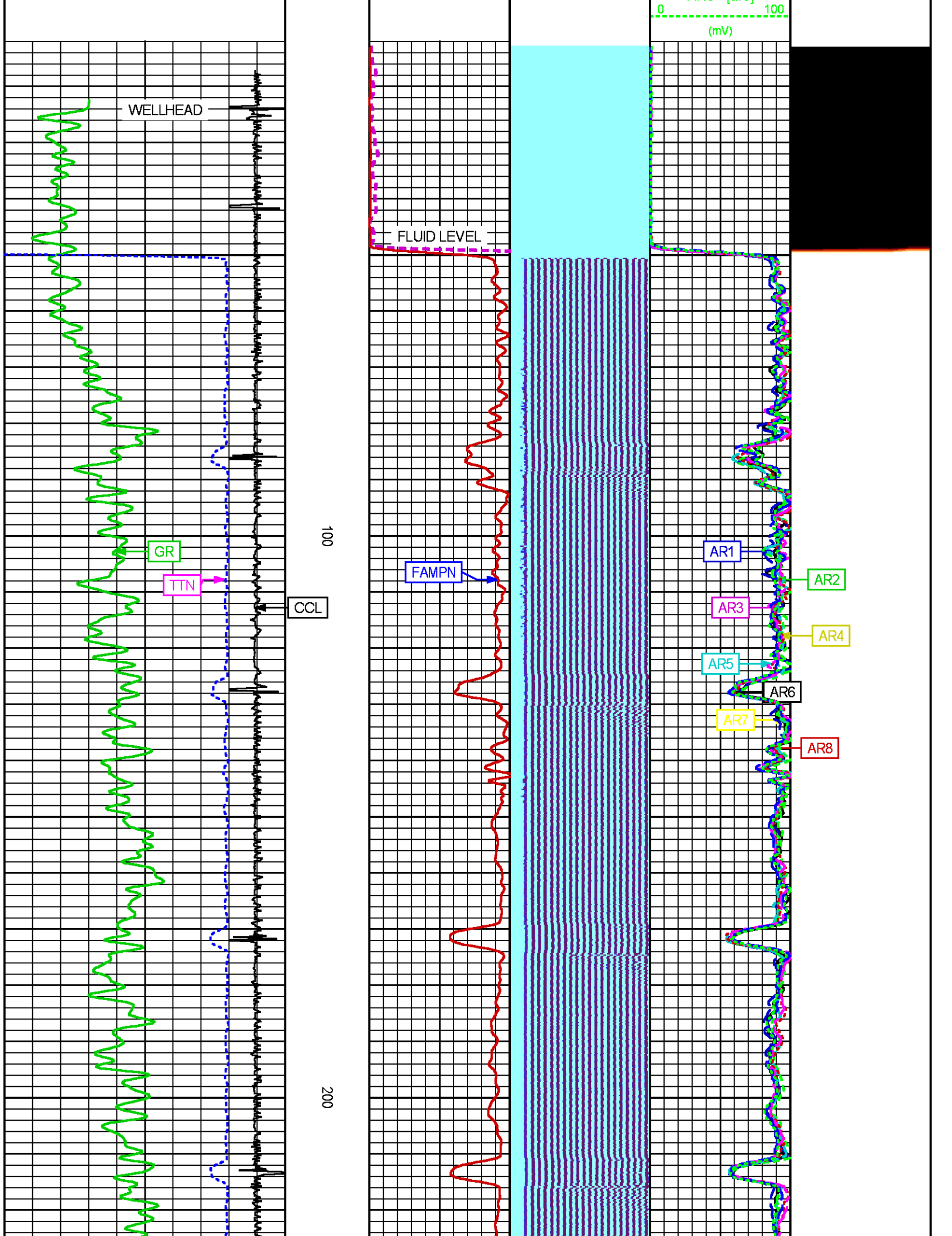
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jun 19 15:45:20 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 15:45:20 2016	FAR WAVE FORM
F1:GR	Jun 19 15:45:20 2016	GAMMA RAY
F1:PBMAP	Jun 19 15:45:20 2016	PERCENT BOND CEMENT MAP
F1:TTN	Jun 19 15:45:20 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 15:45:20 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

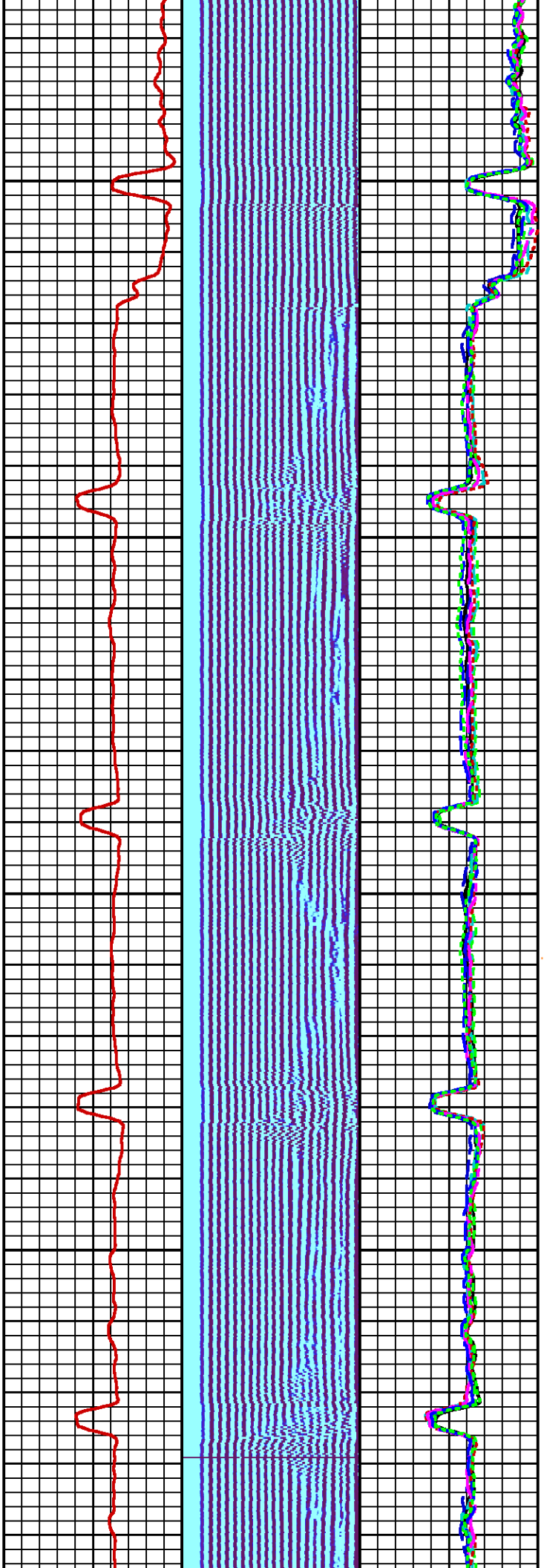
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

**Presentation** : BHID26LKX1:C:\dat1a\CH107930\WPX\_secondary-ral.fvpdf [5"/100' Scale]  
**Plot Interval** : 12.75 - 7182.25 Feet

**Data File 1** : F1 : BHID26LKX1:\dat1a\CH107930\012g02.xtf  
**Created On** : Jun 19 15:45:20 2016  
**Company** : WPX ENERGY  
**Well** : FEDERAL GM 43-8  
**Field** : GRAND VALLEY  
**File Interval** : 11.75 - 7183.5 Feet  
**OCT** : n012g

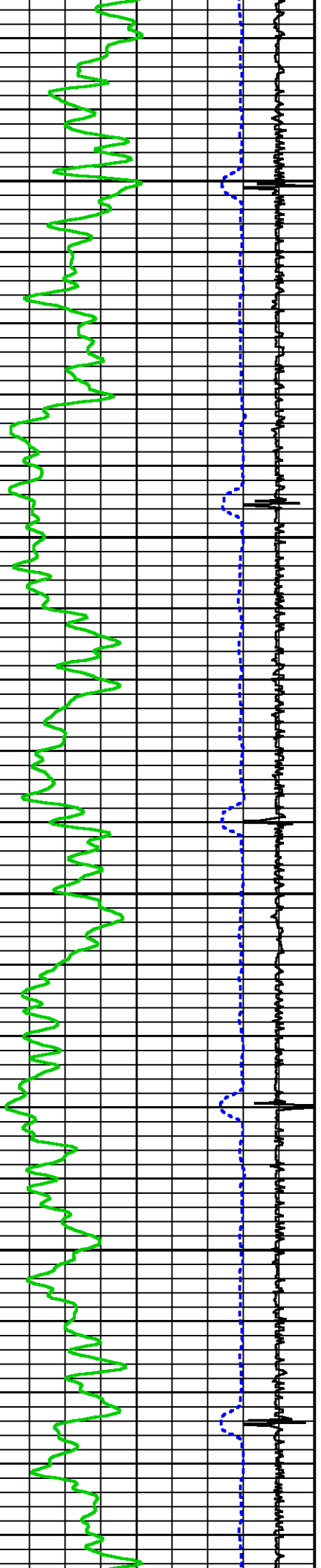


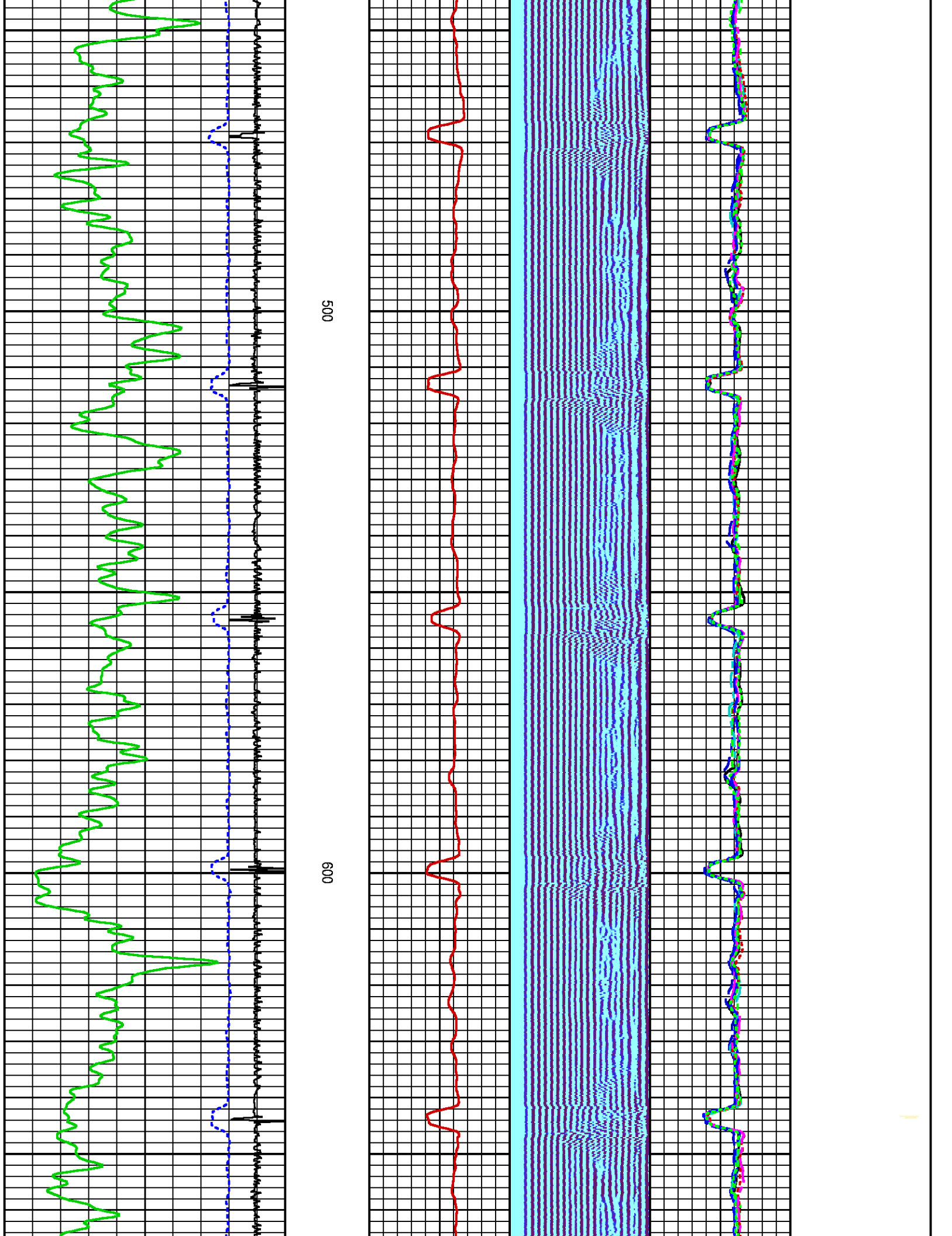




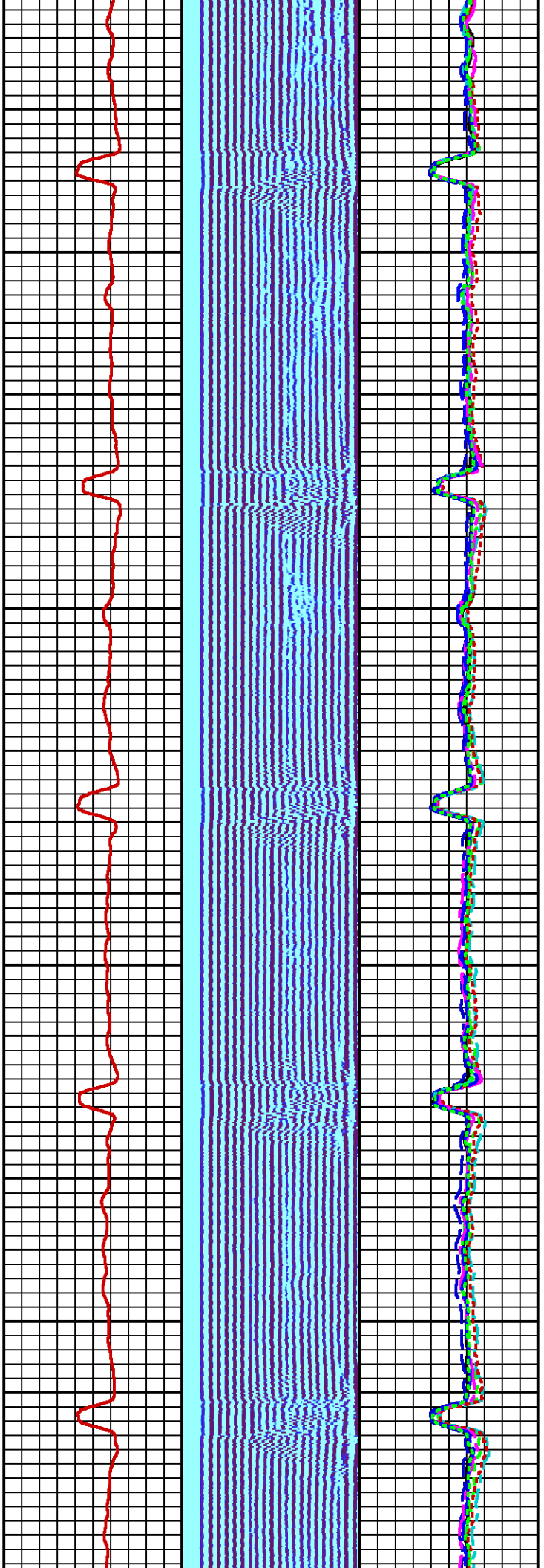
300

400



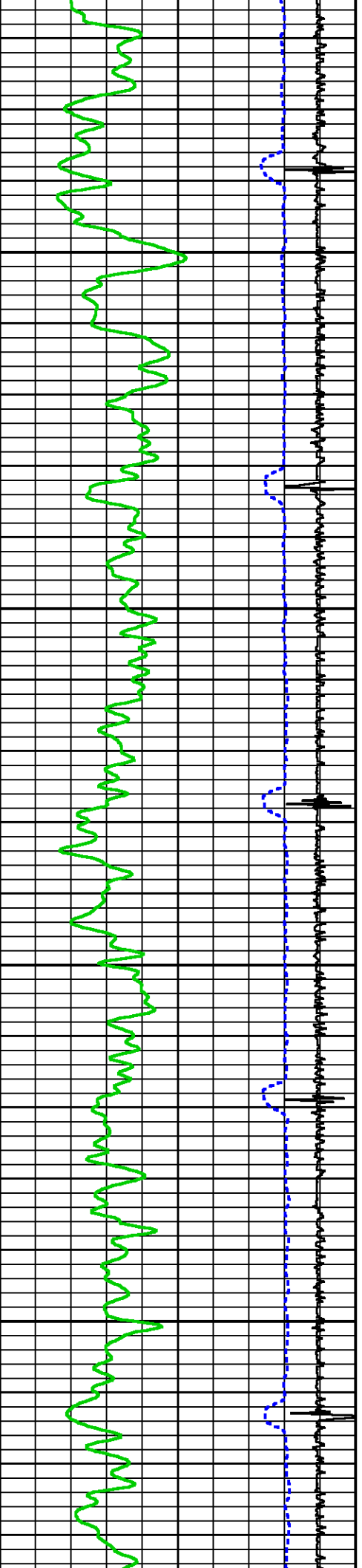


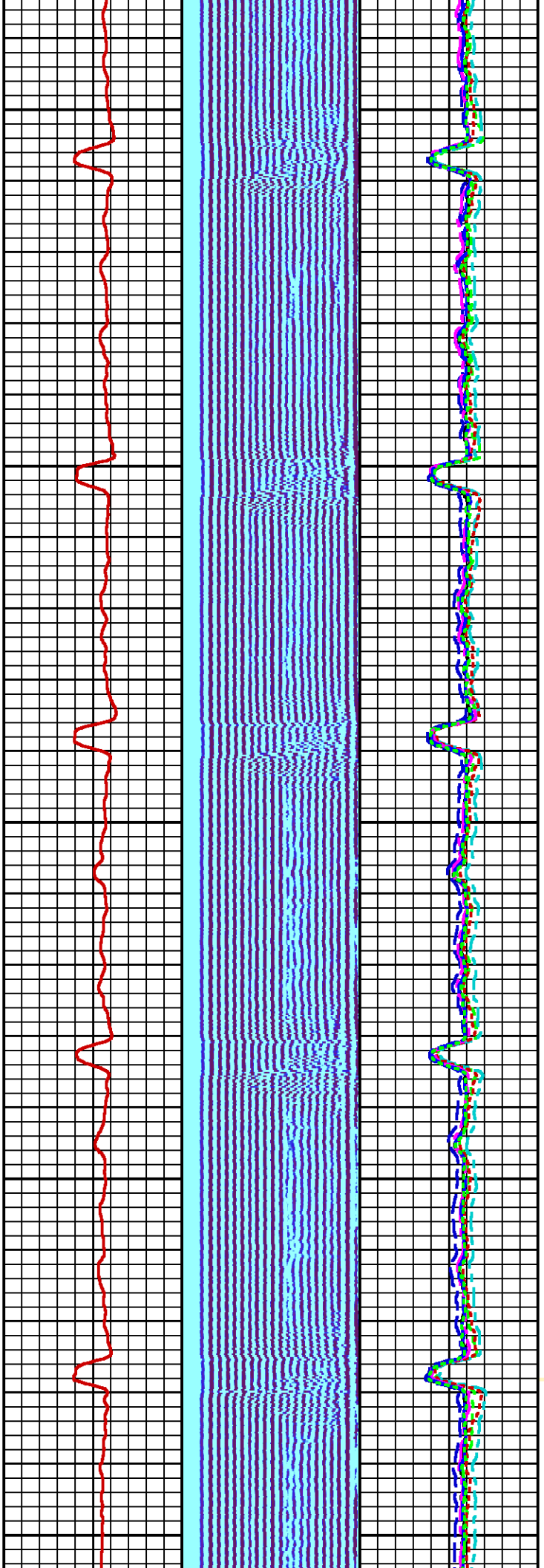




700

800

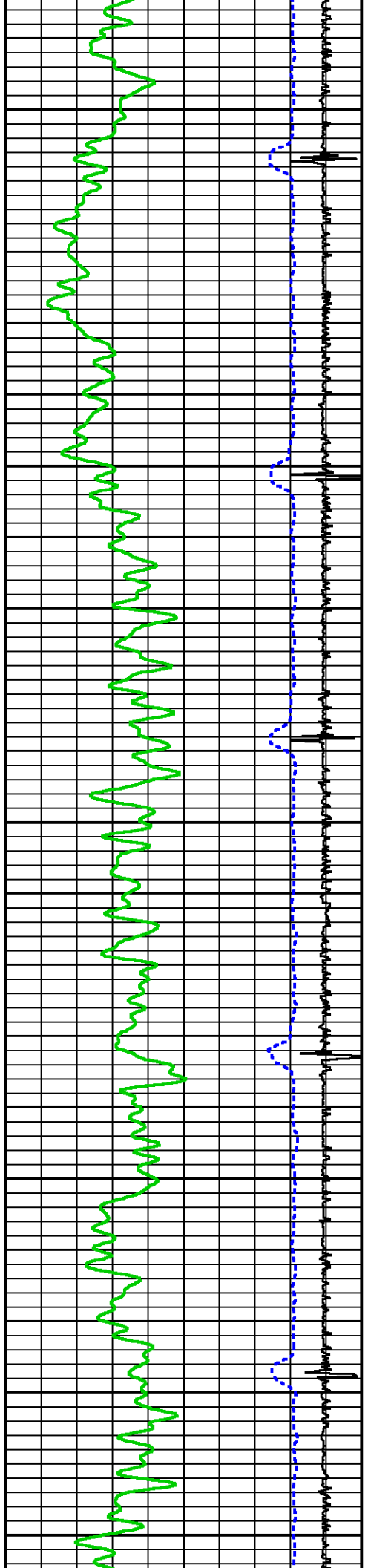


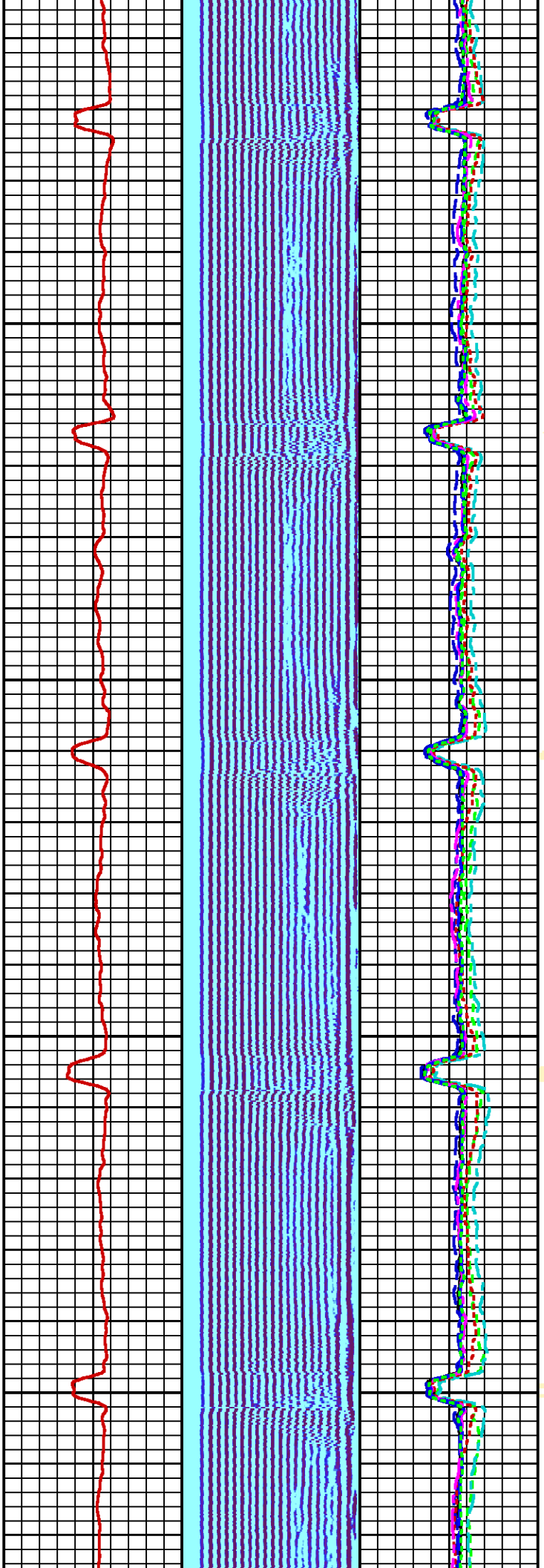


900

1000

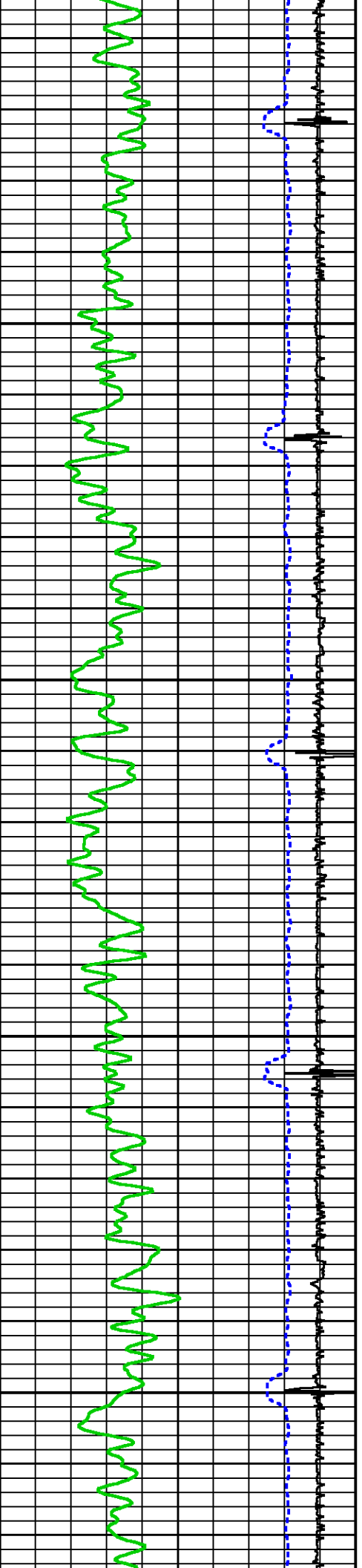
1100

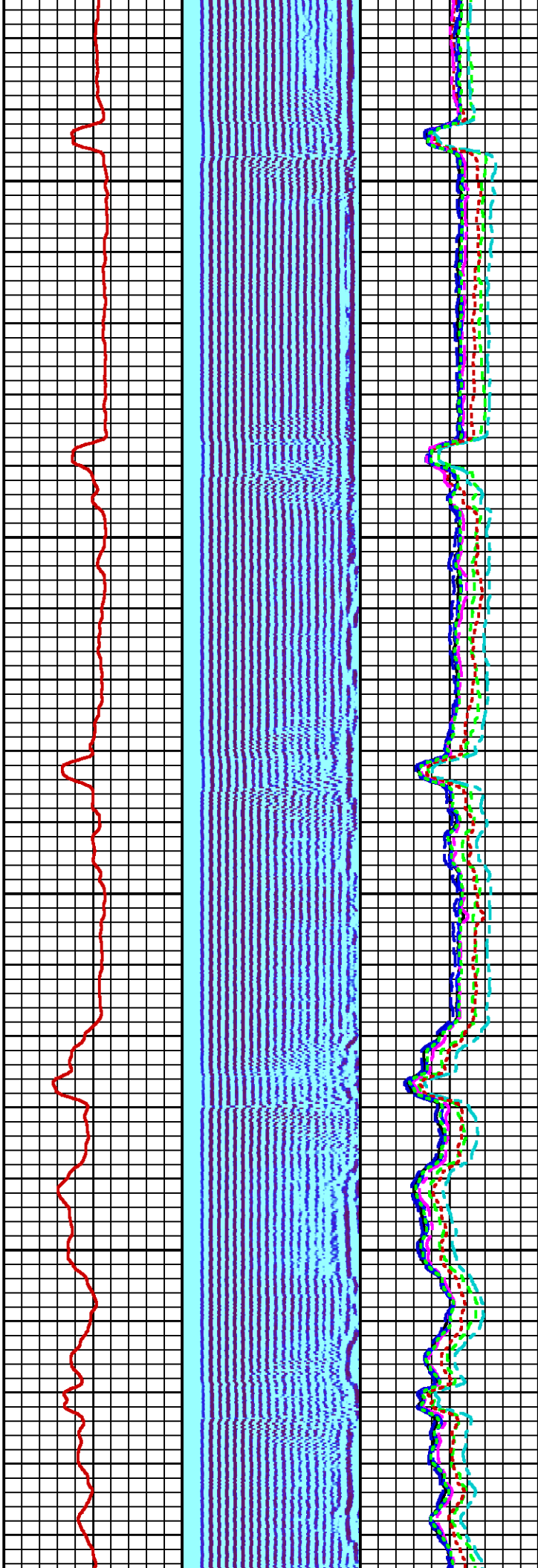
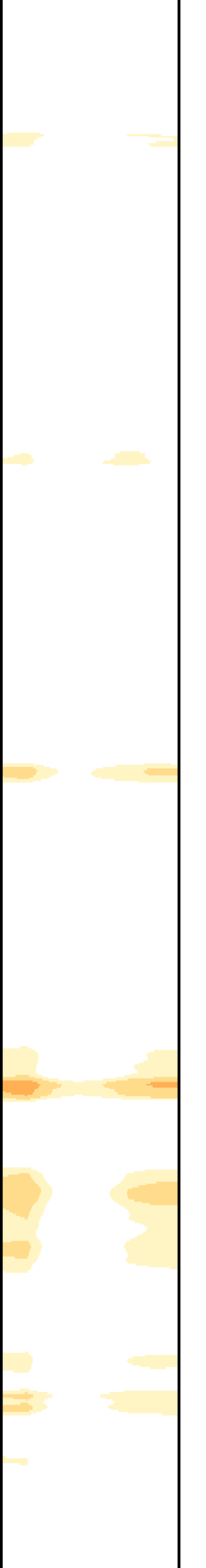




1200

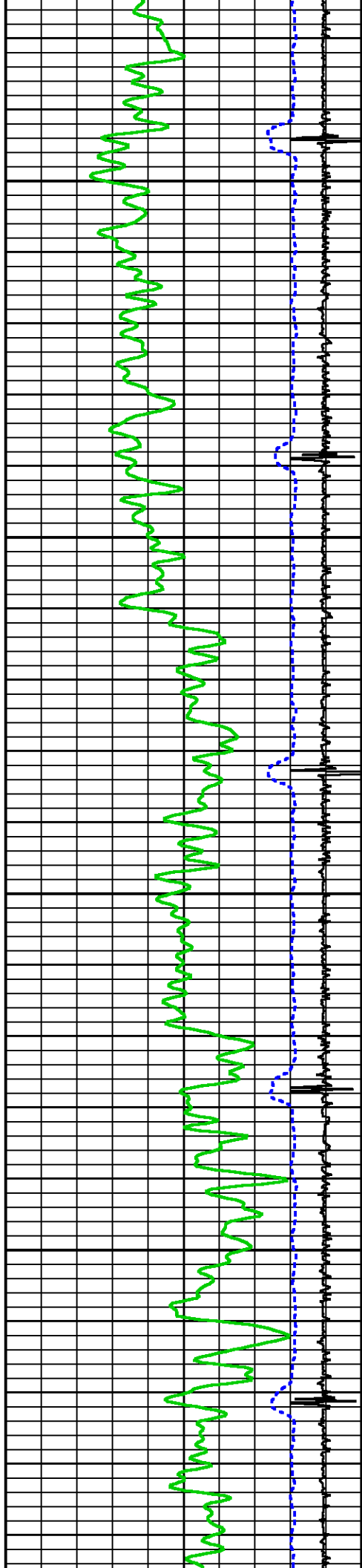
1300



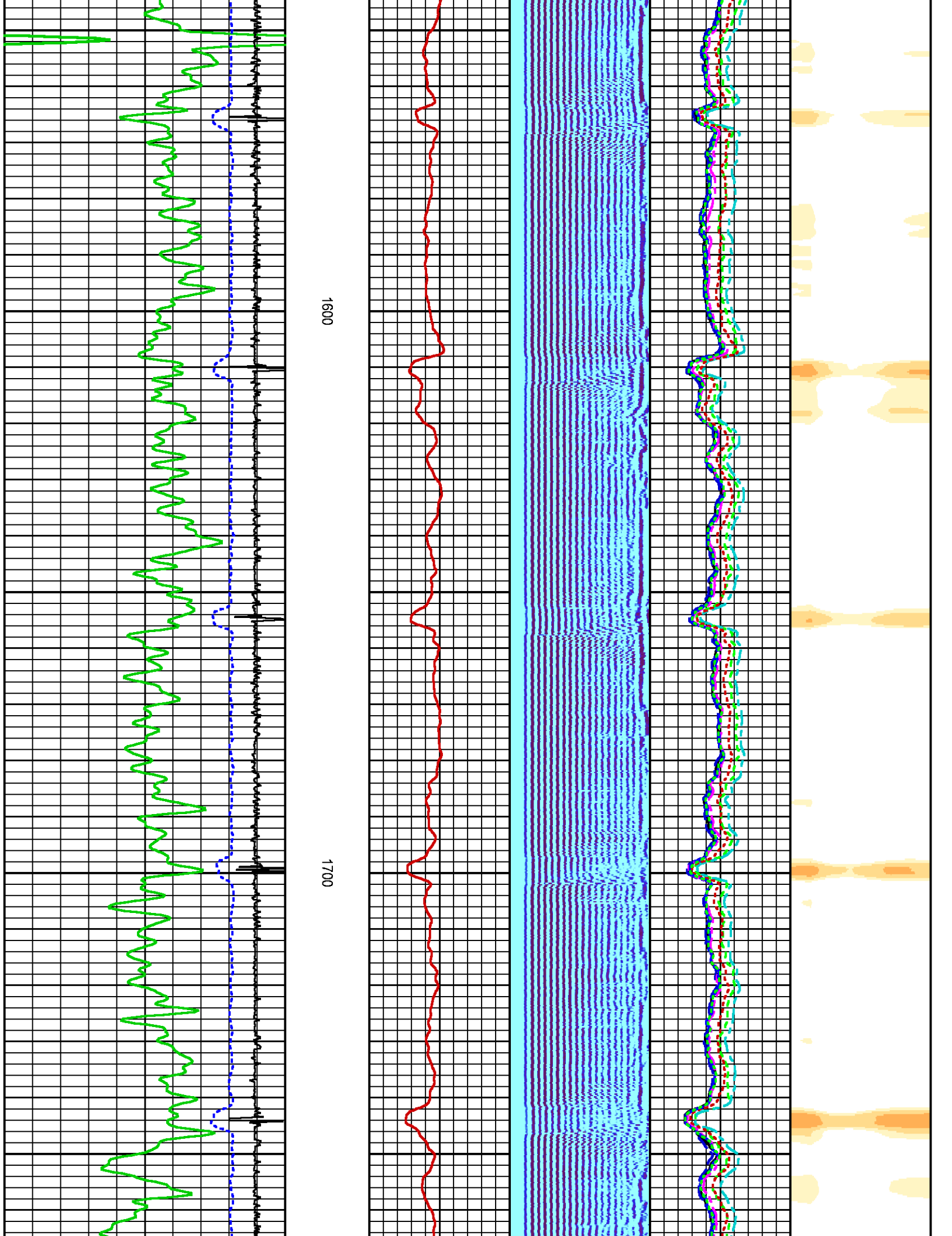


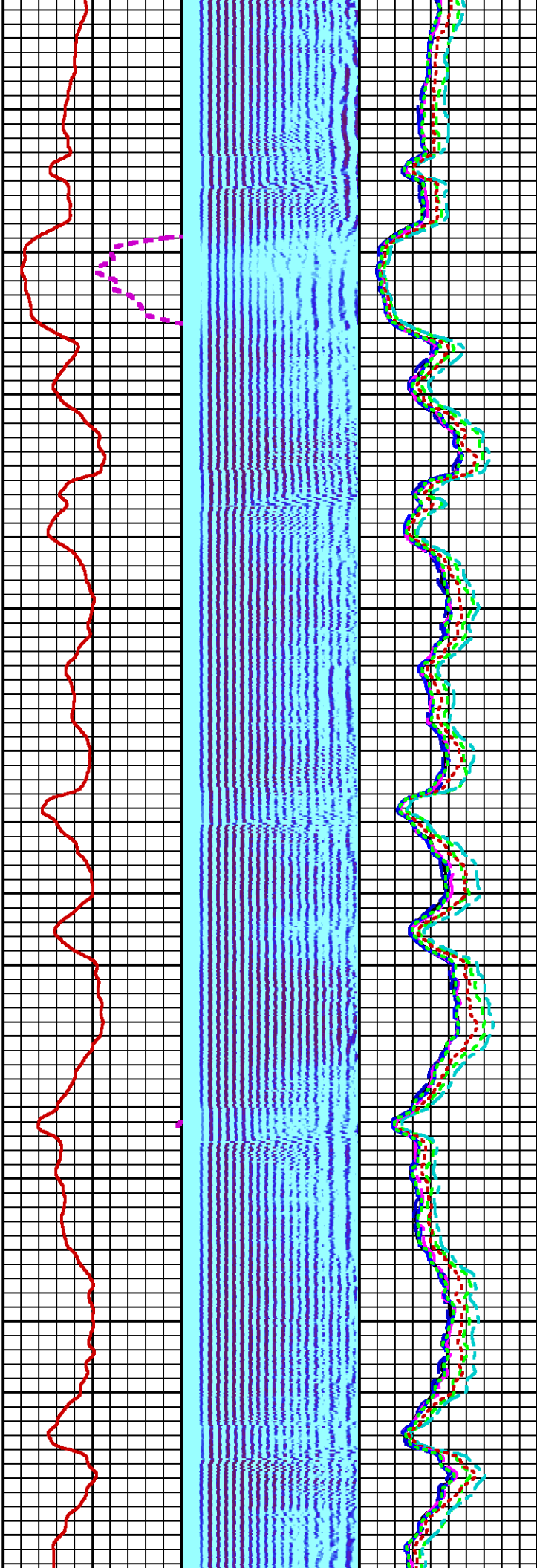
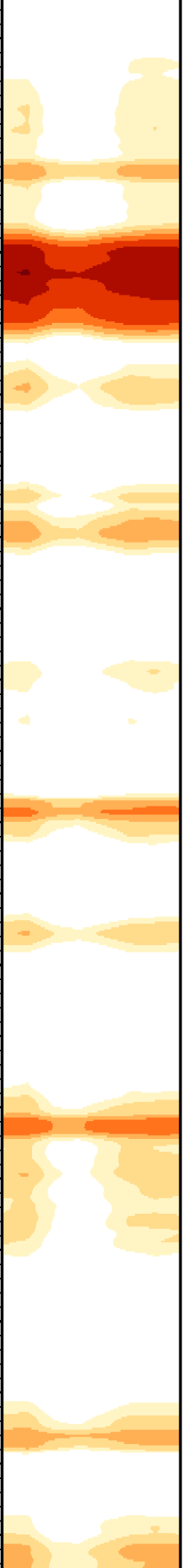
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1500



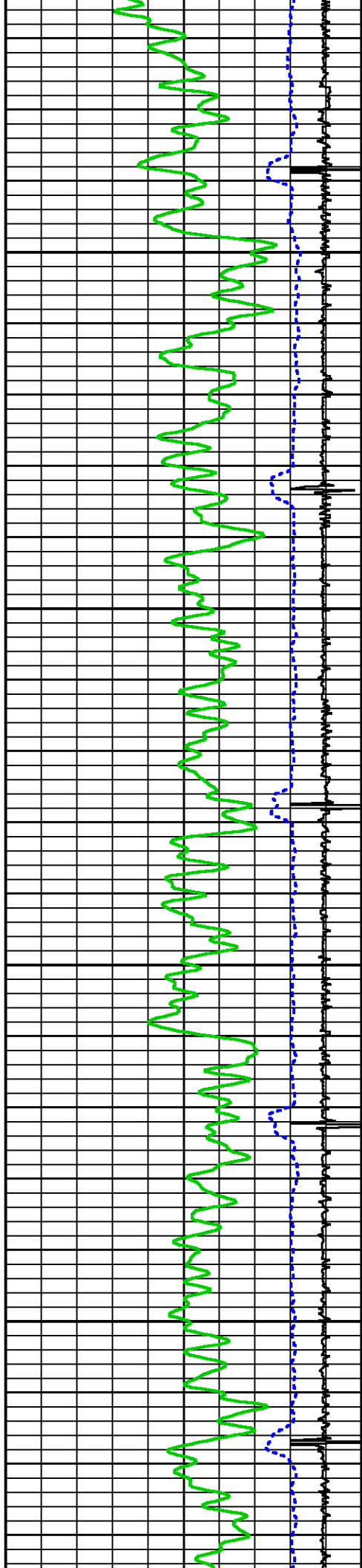


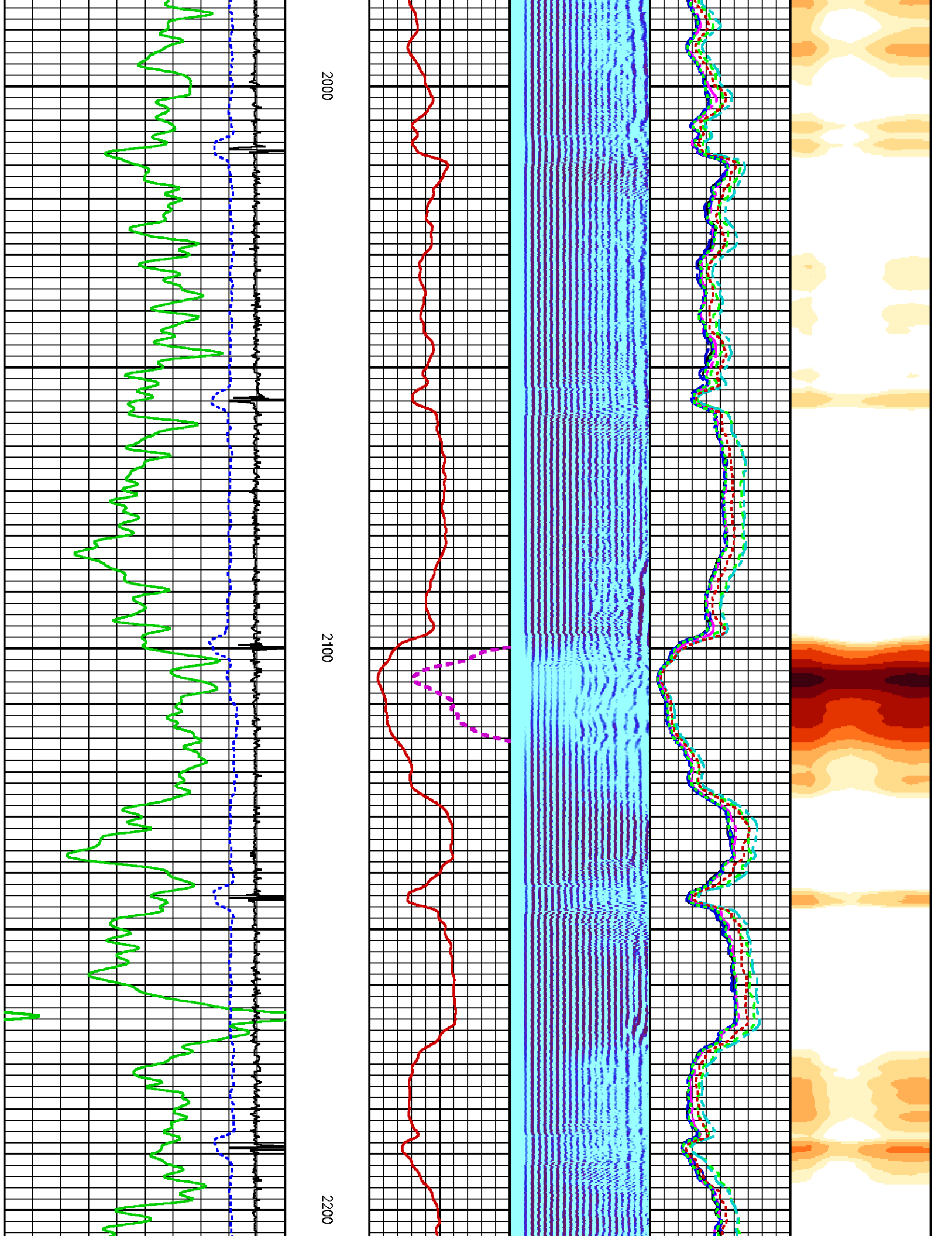


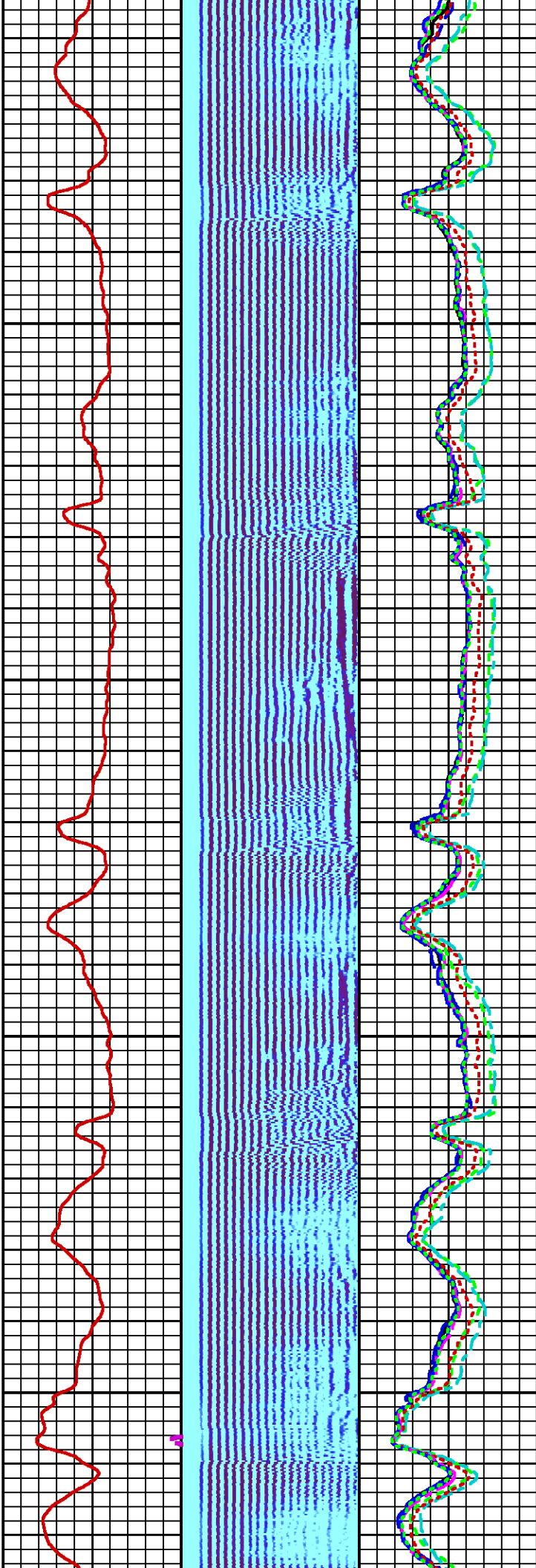


1800

1900

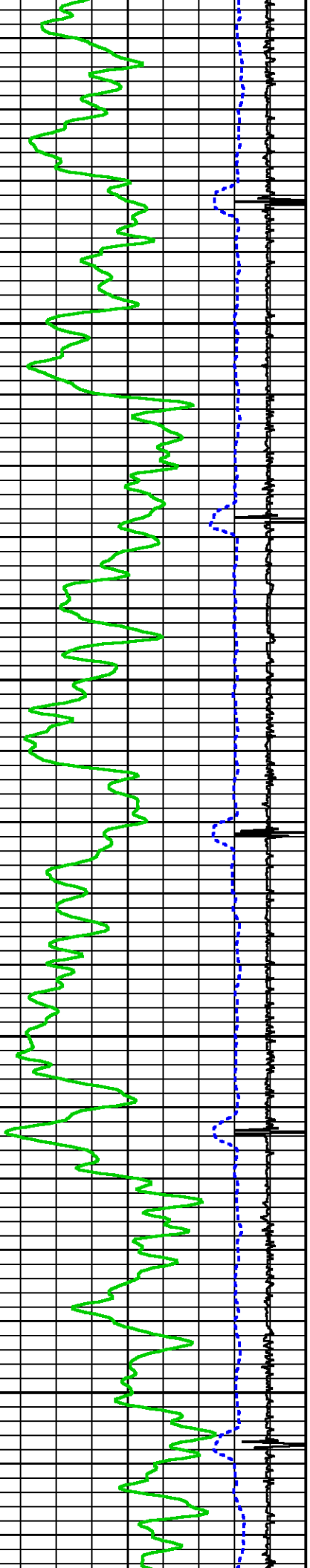




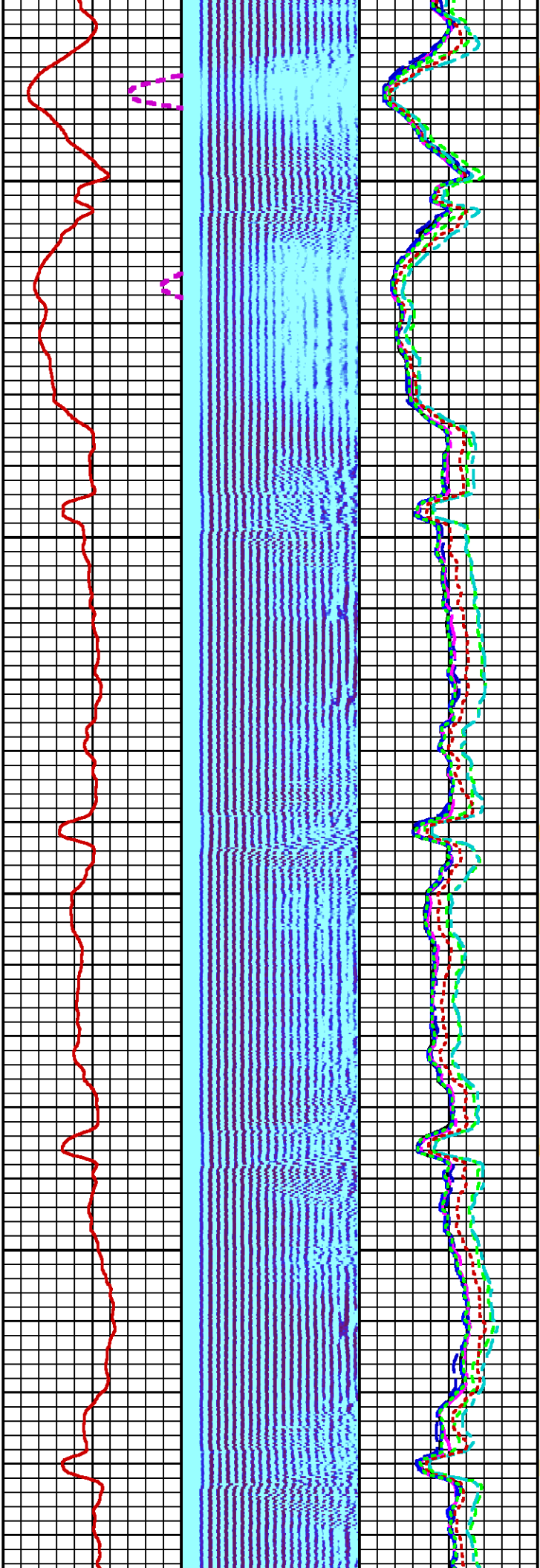
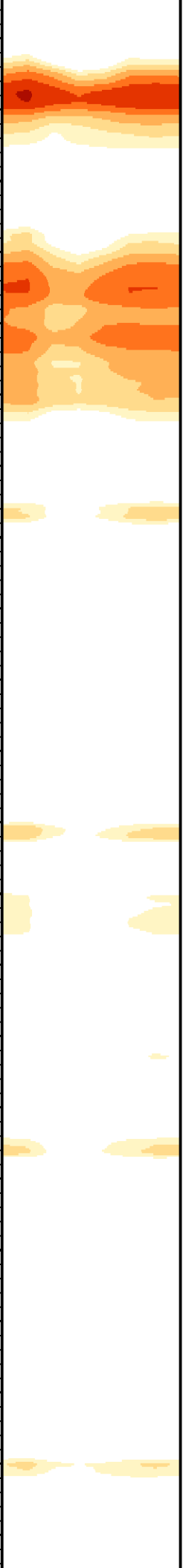


2300

2400

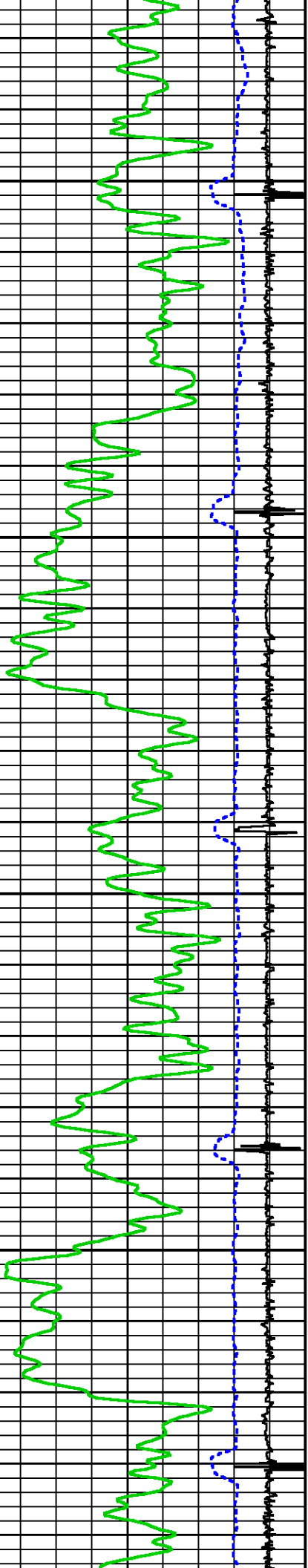


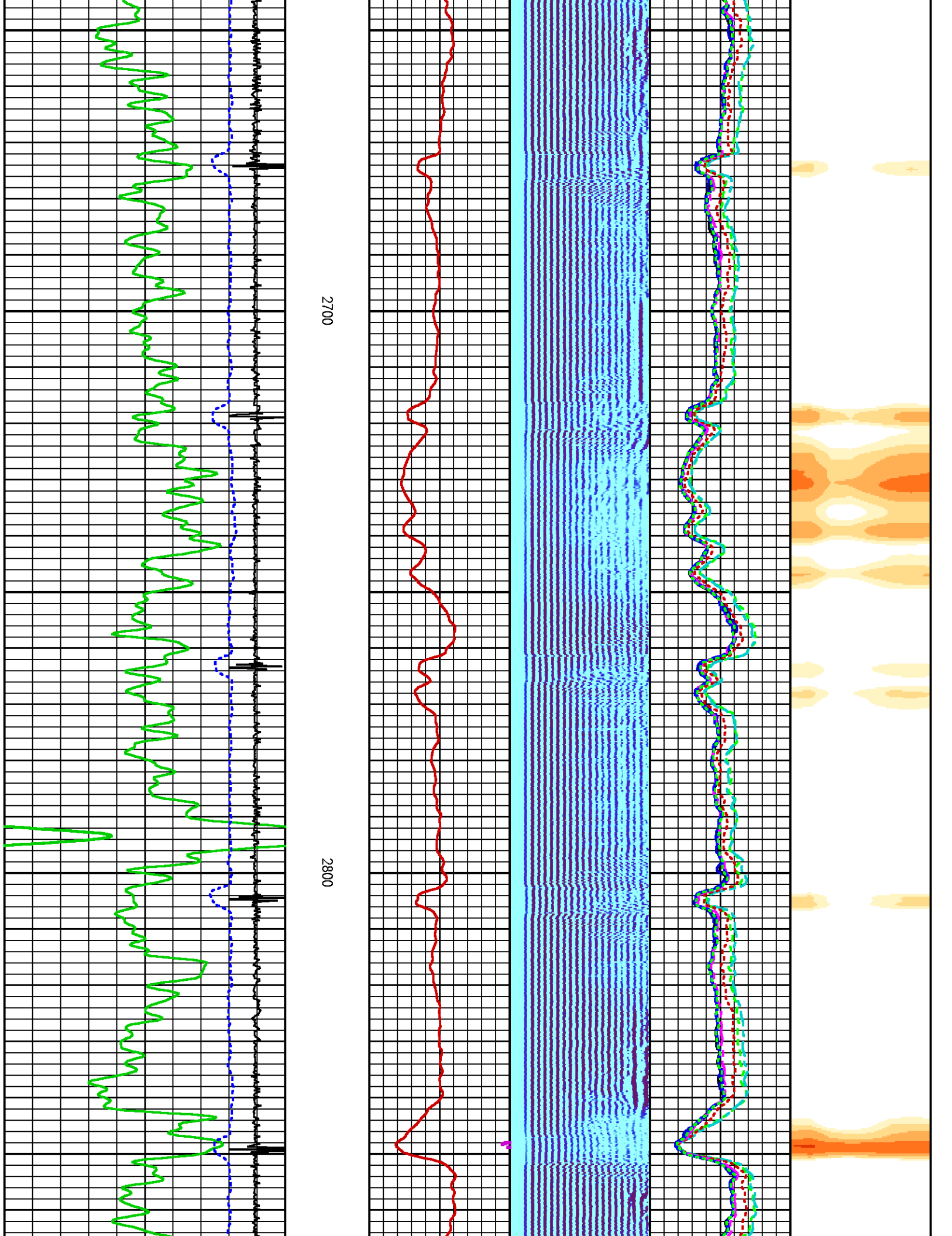


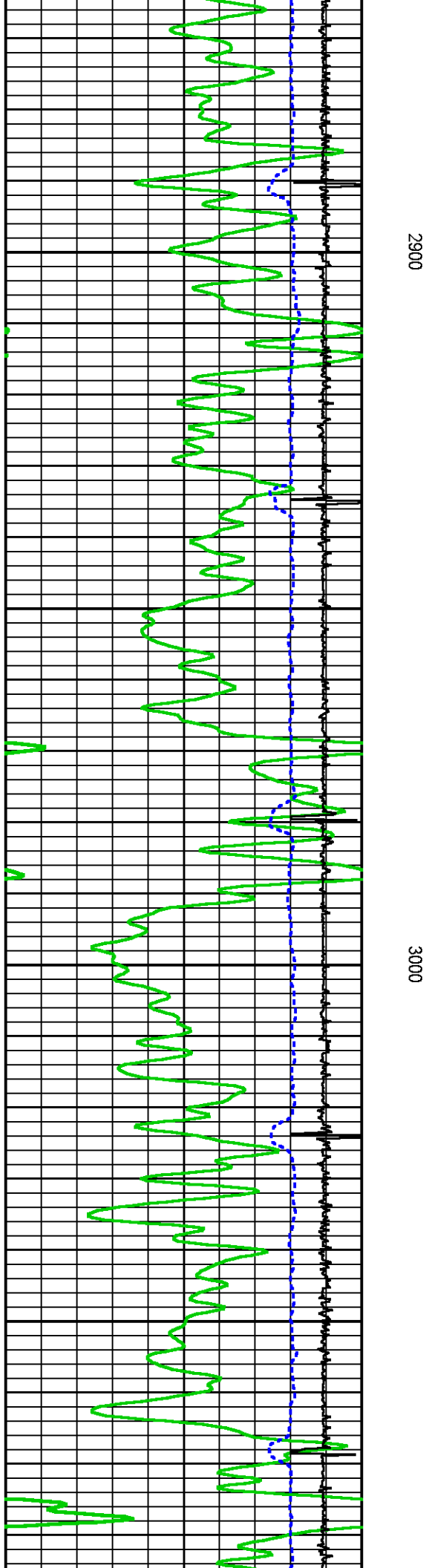
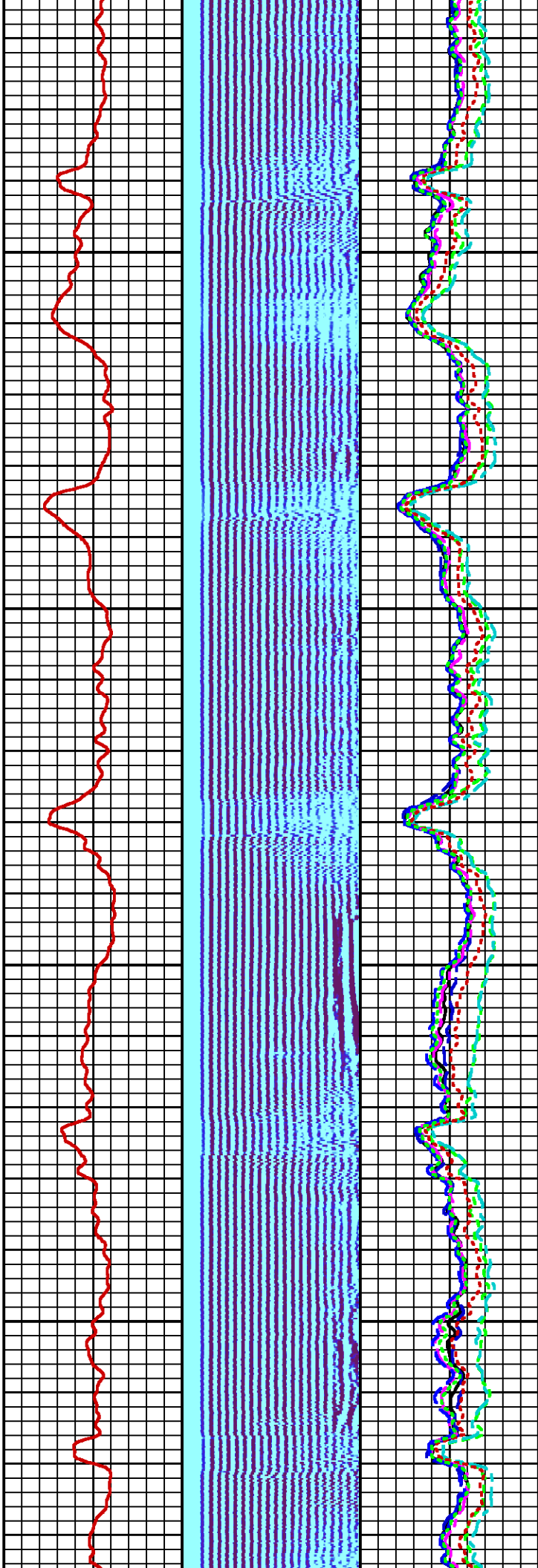
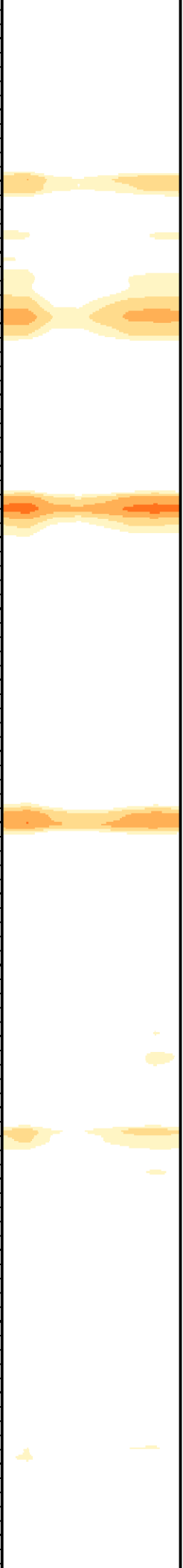


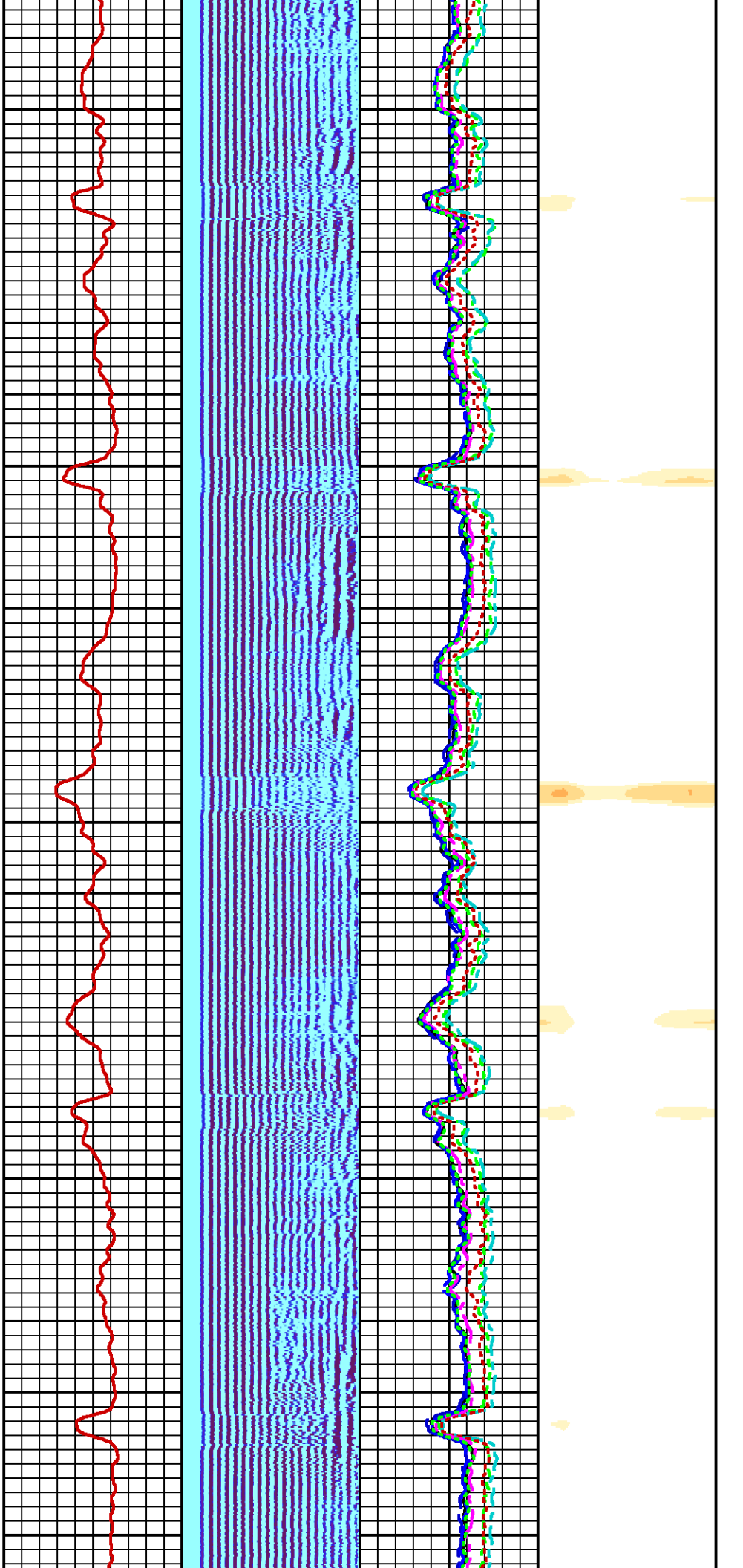
2500

2600





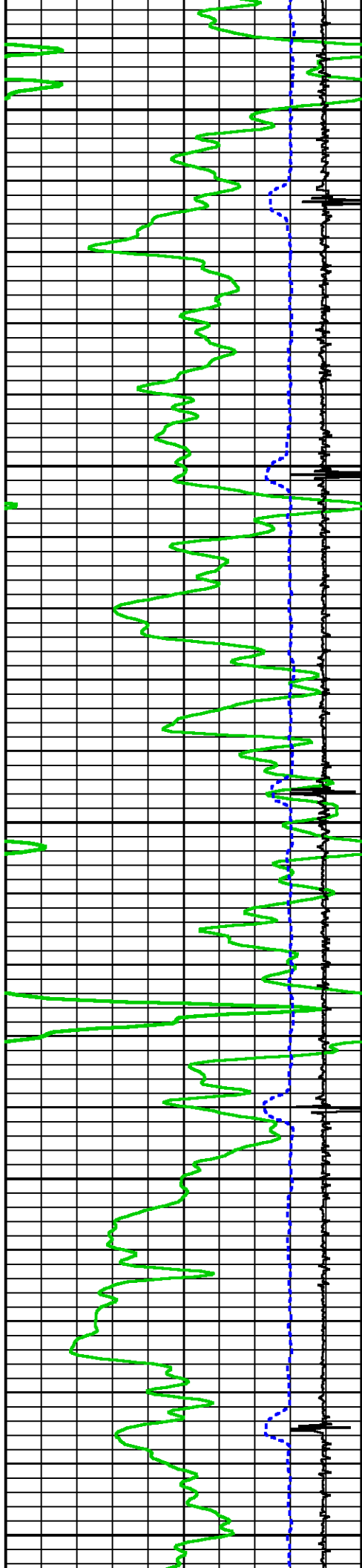




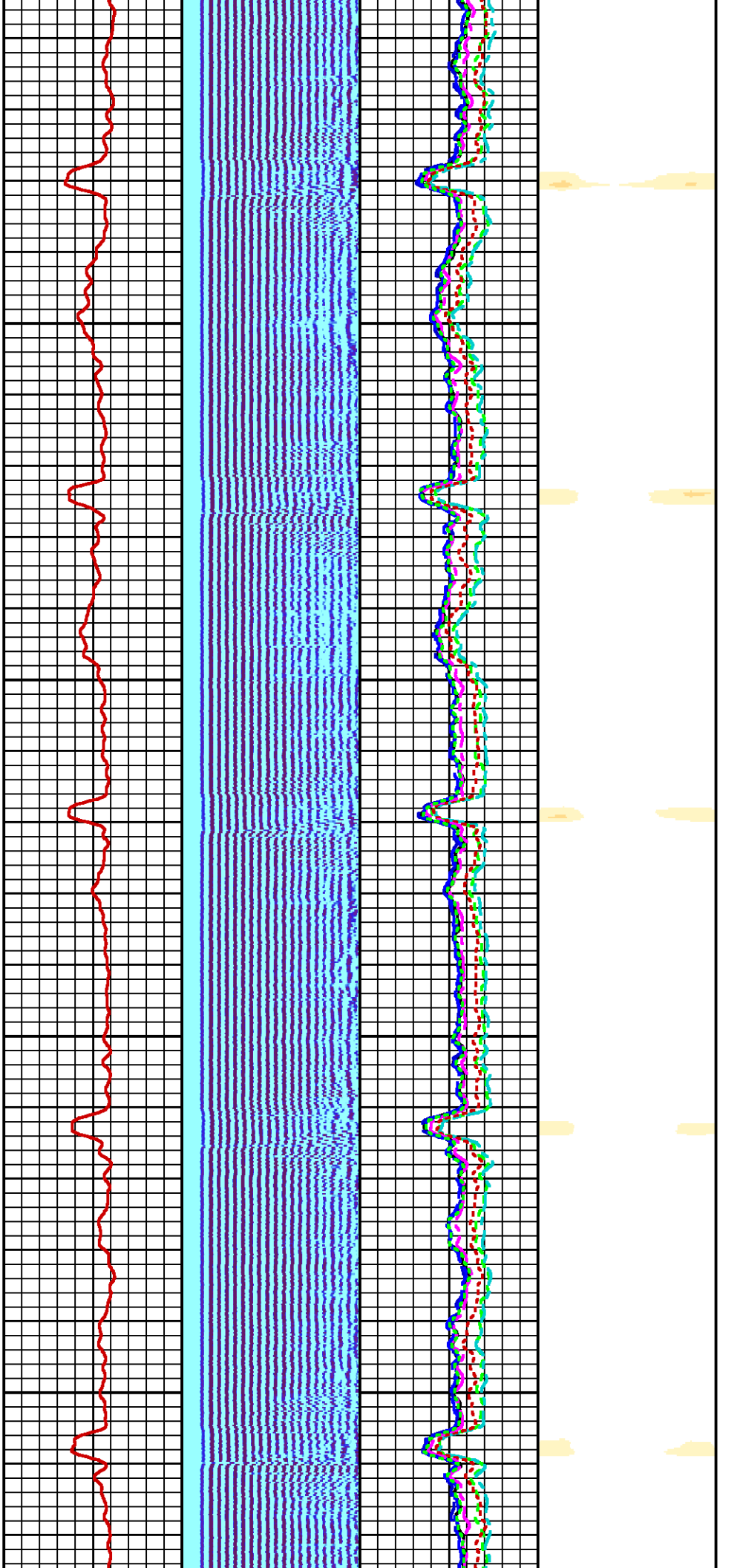
3100

3200

3300

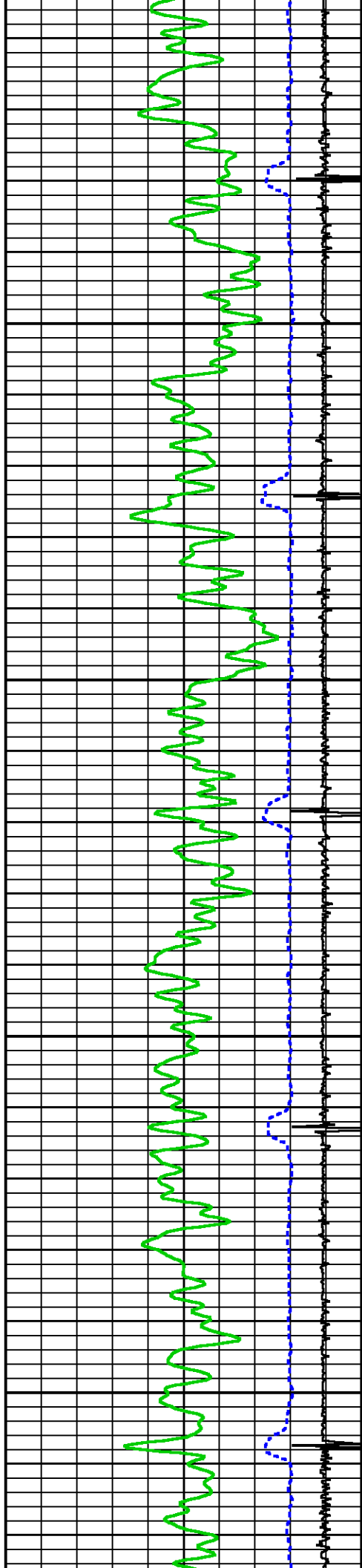


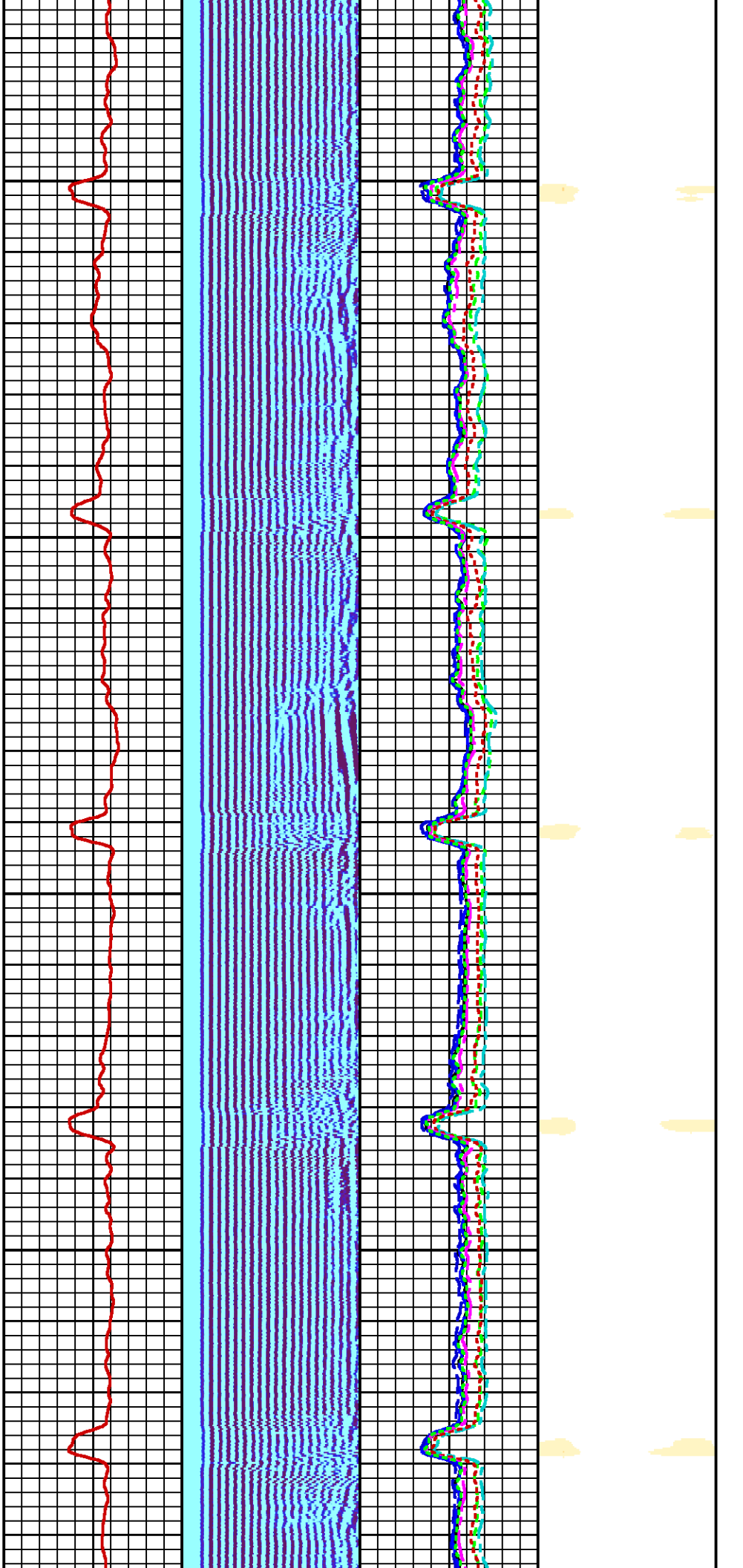




3400

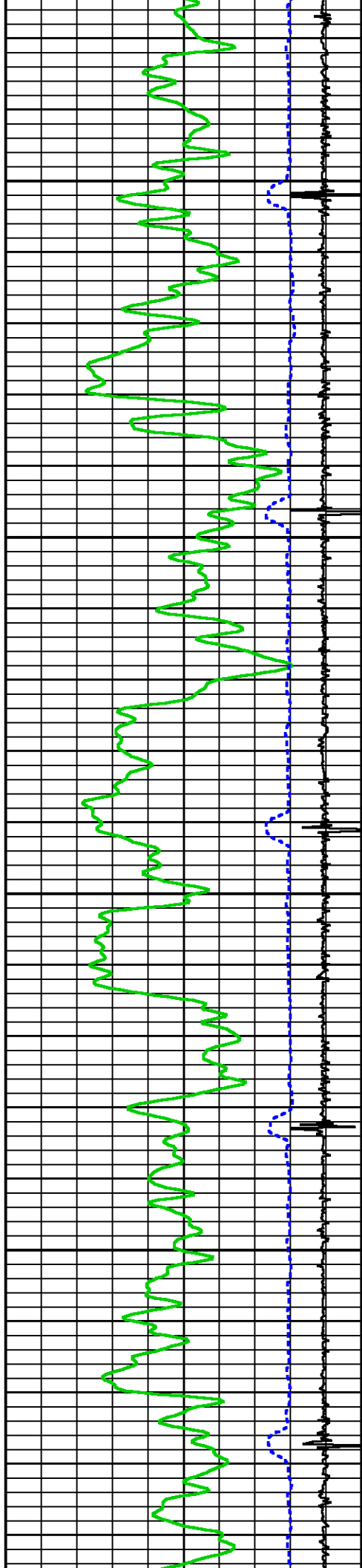
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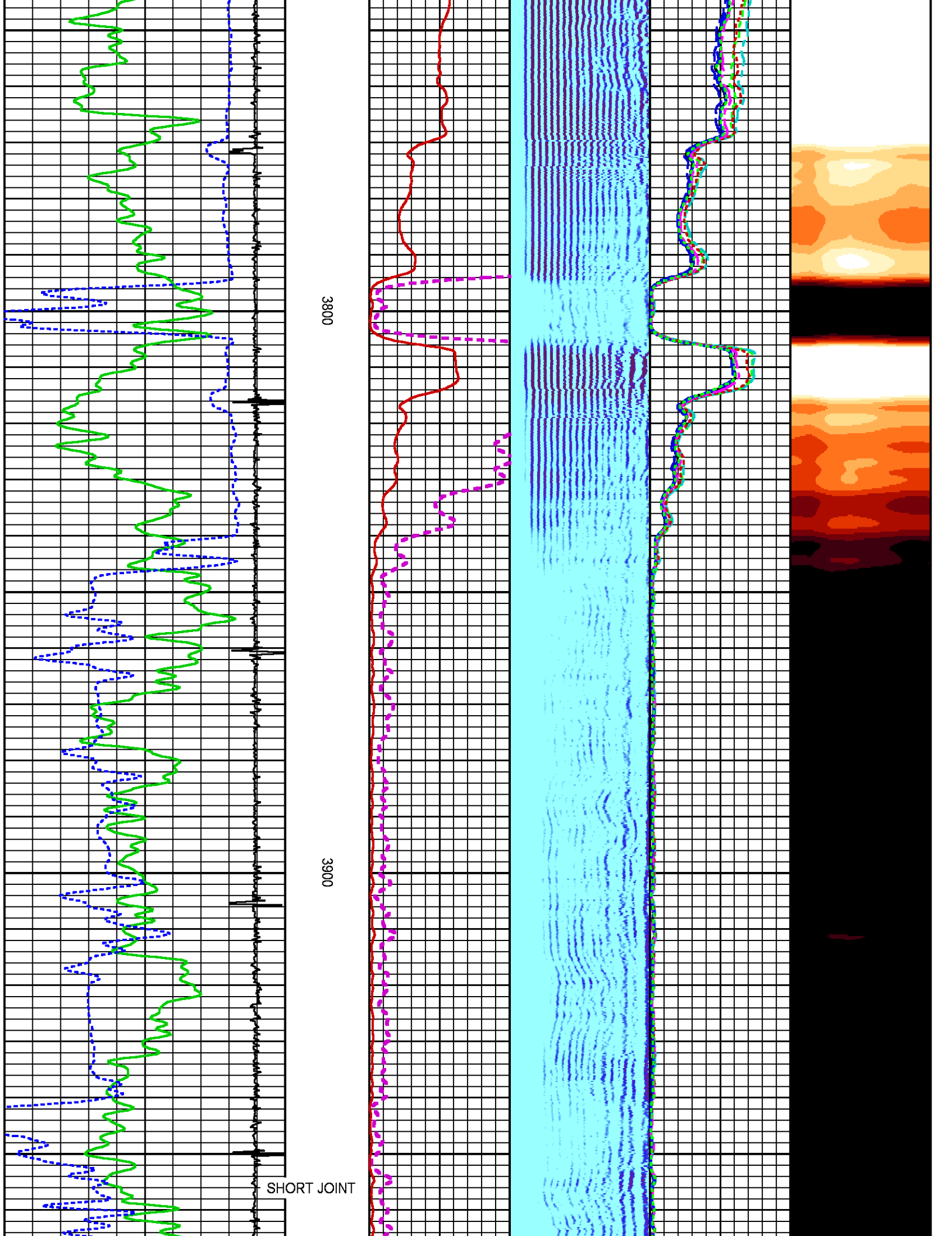


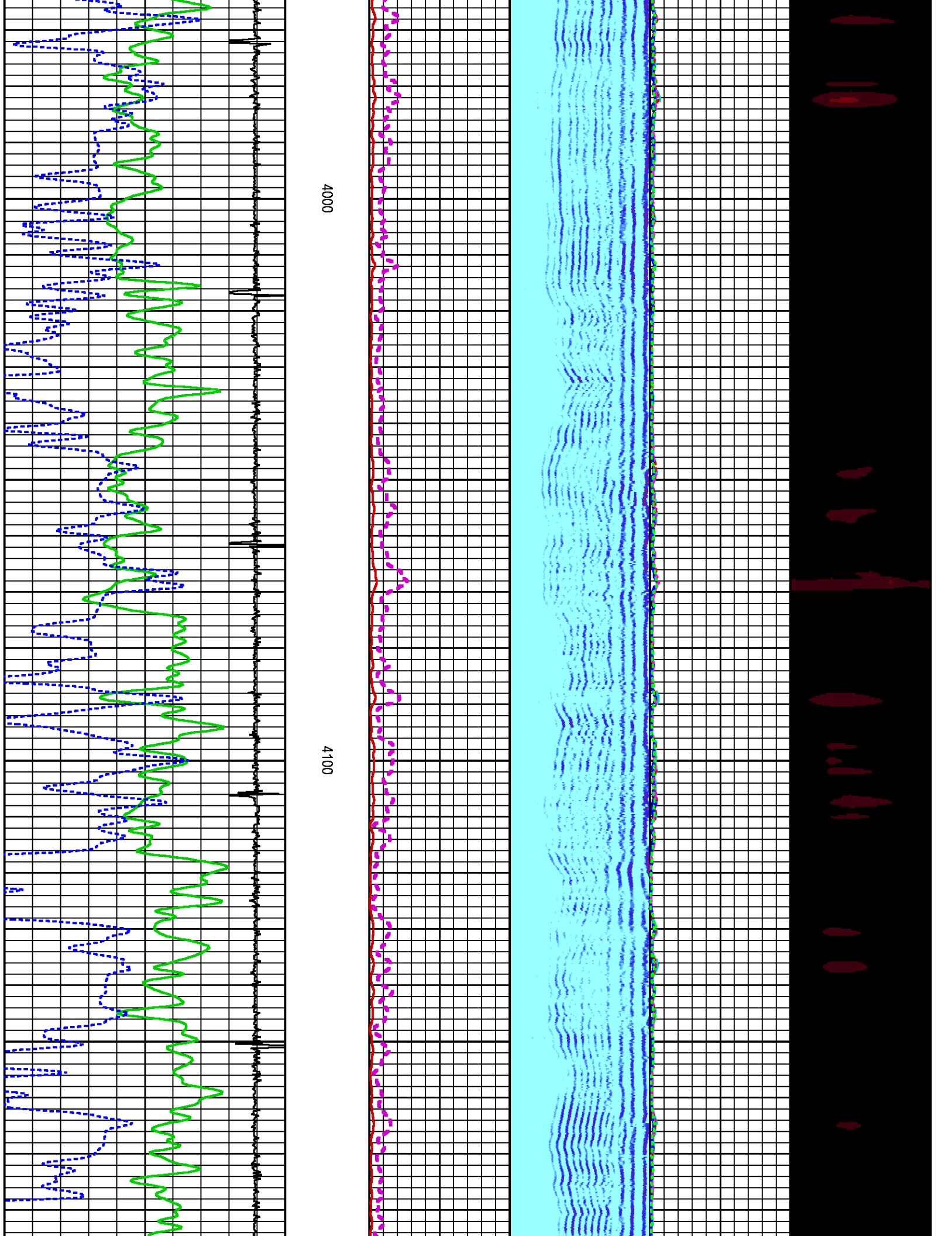


3600

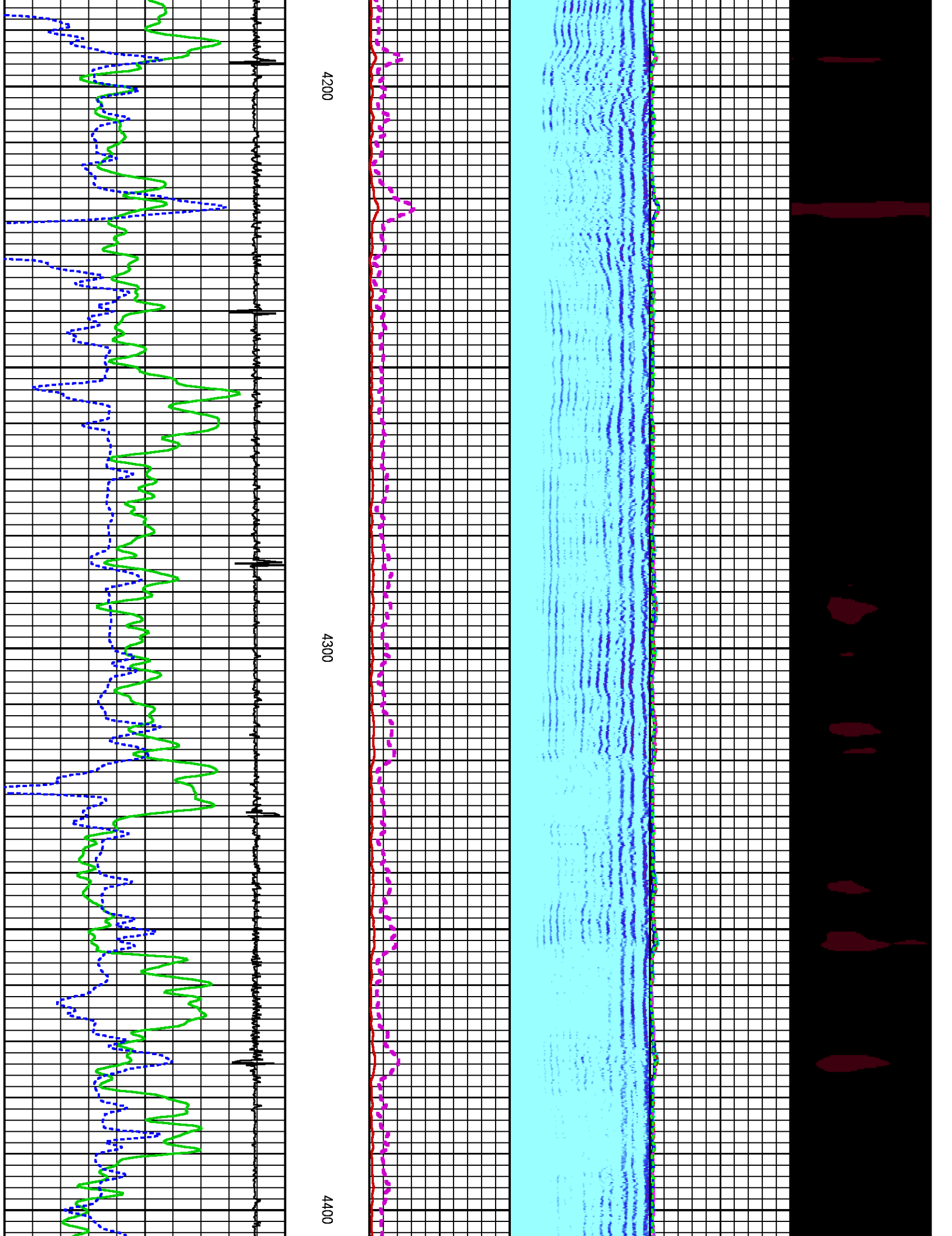
3700

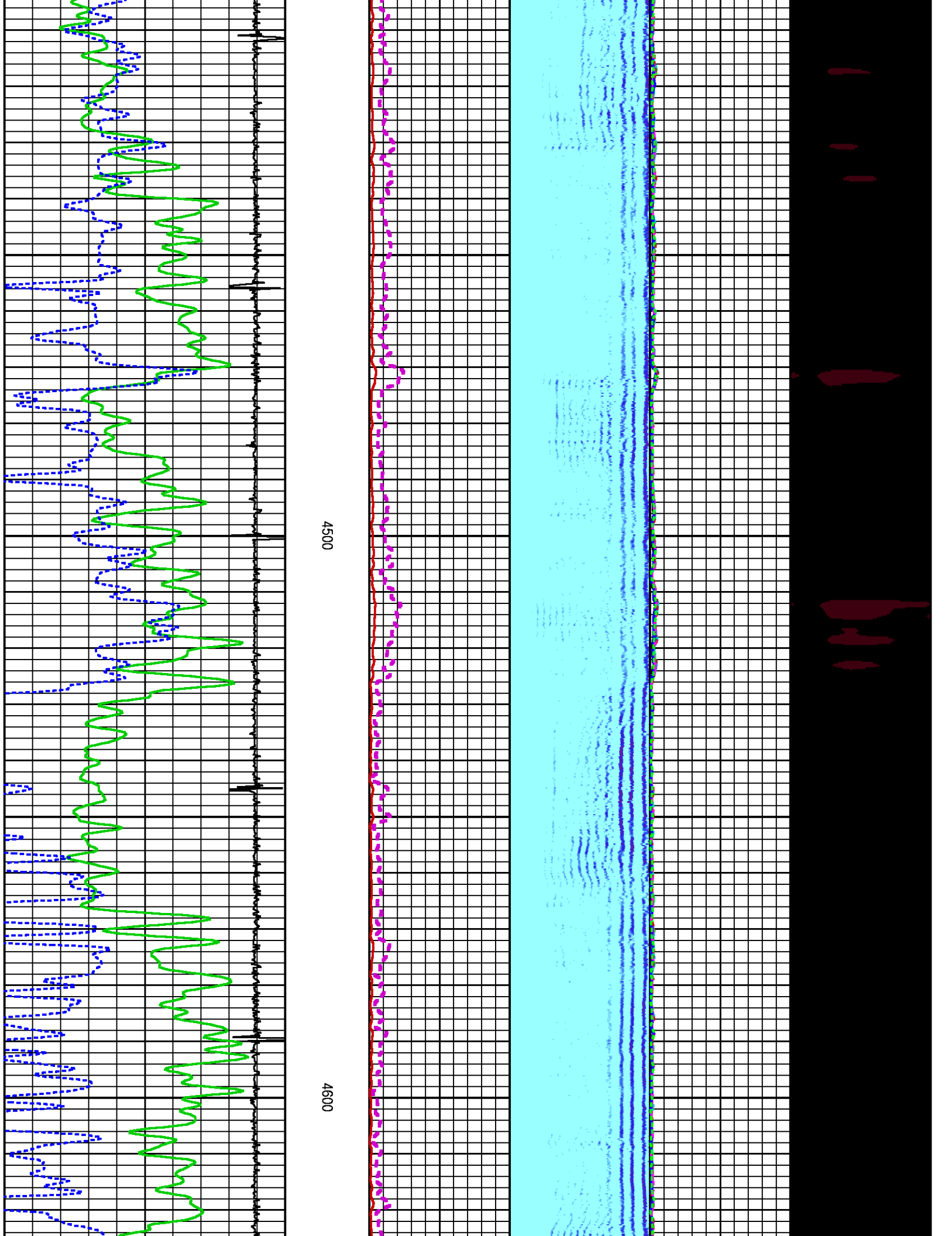


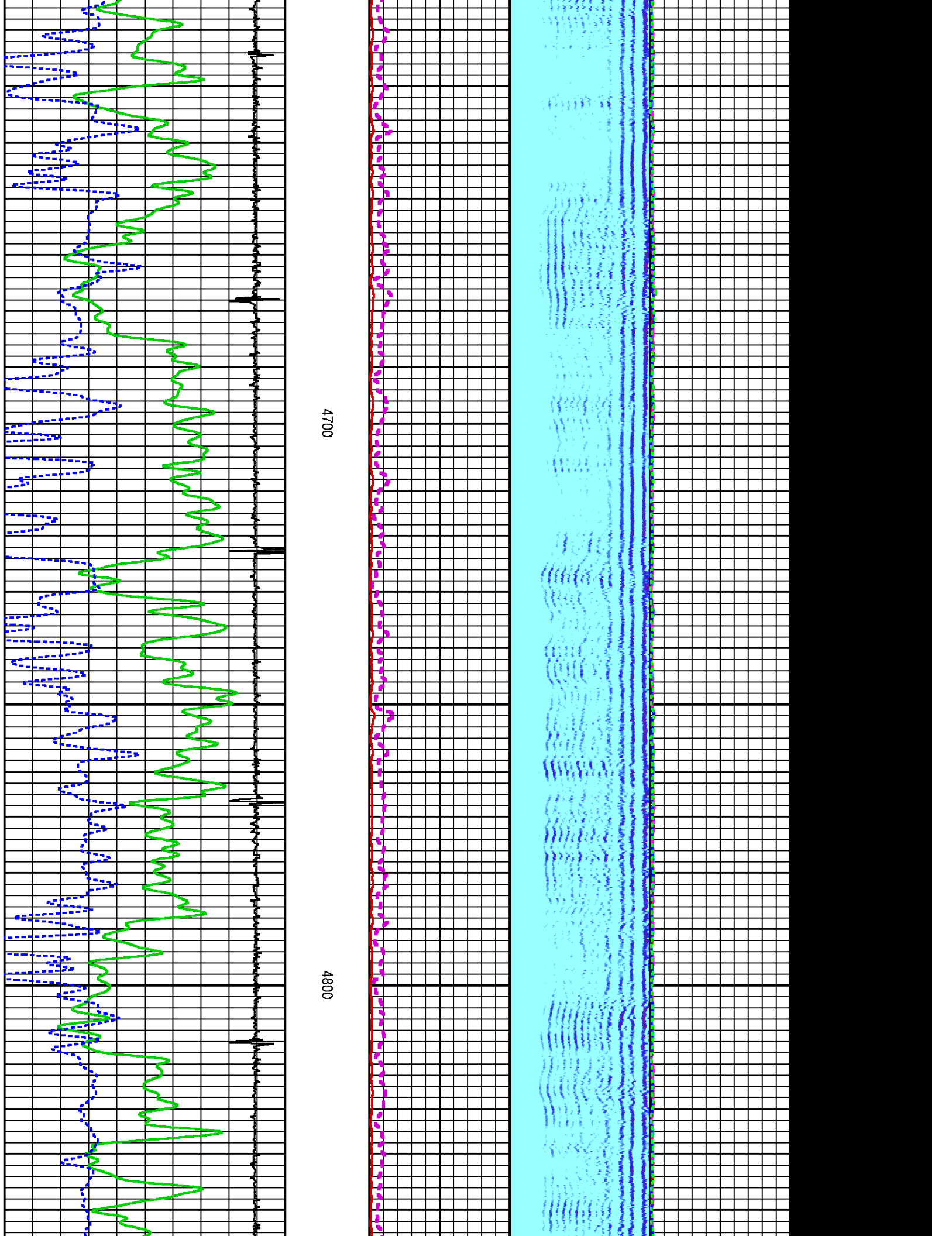


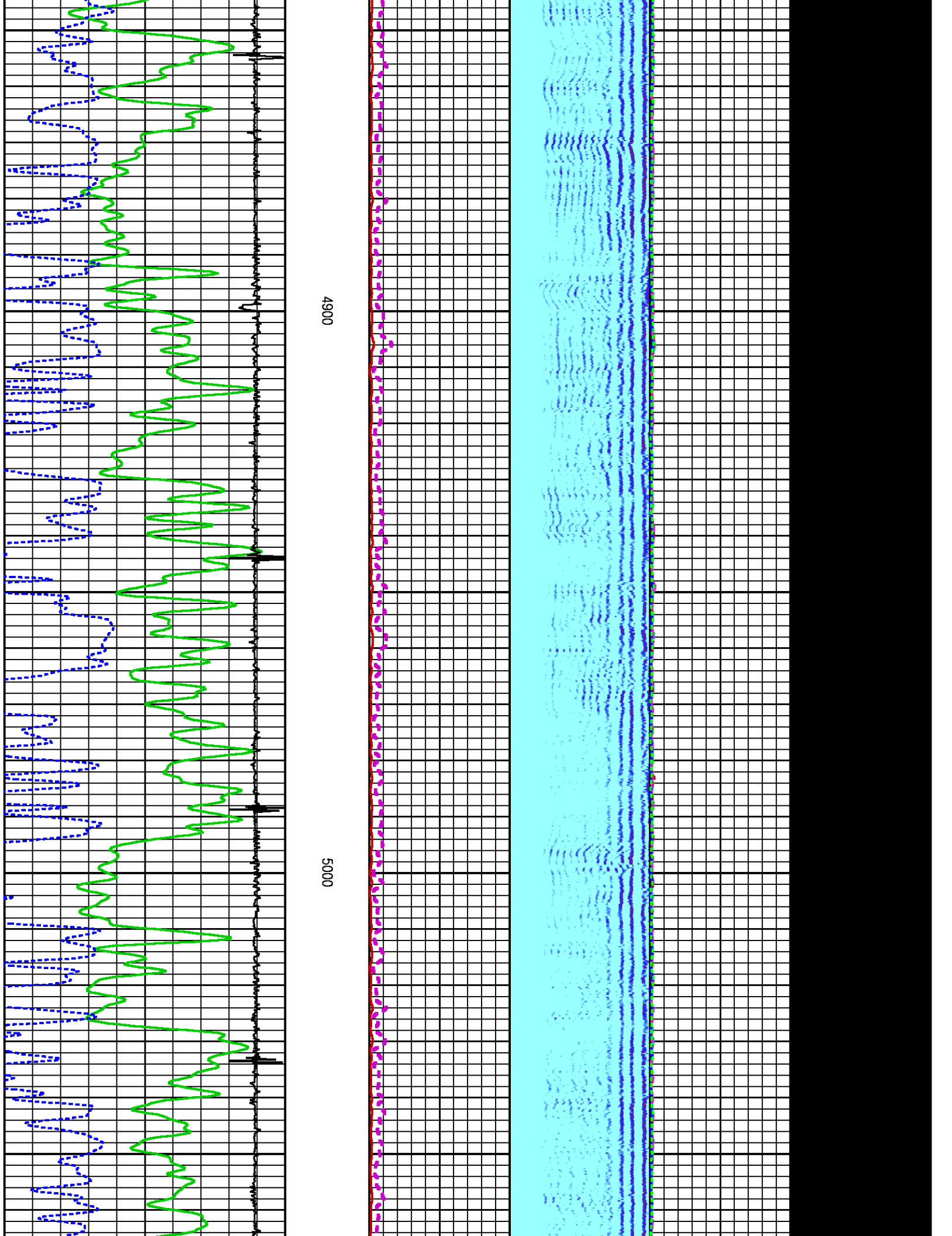




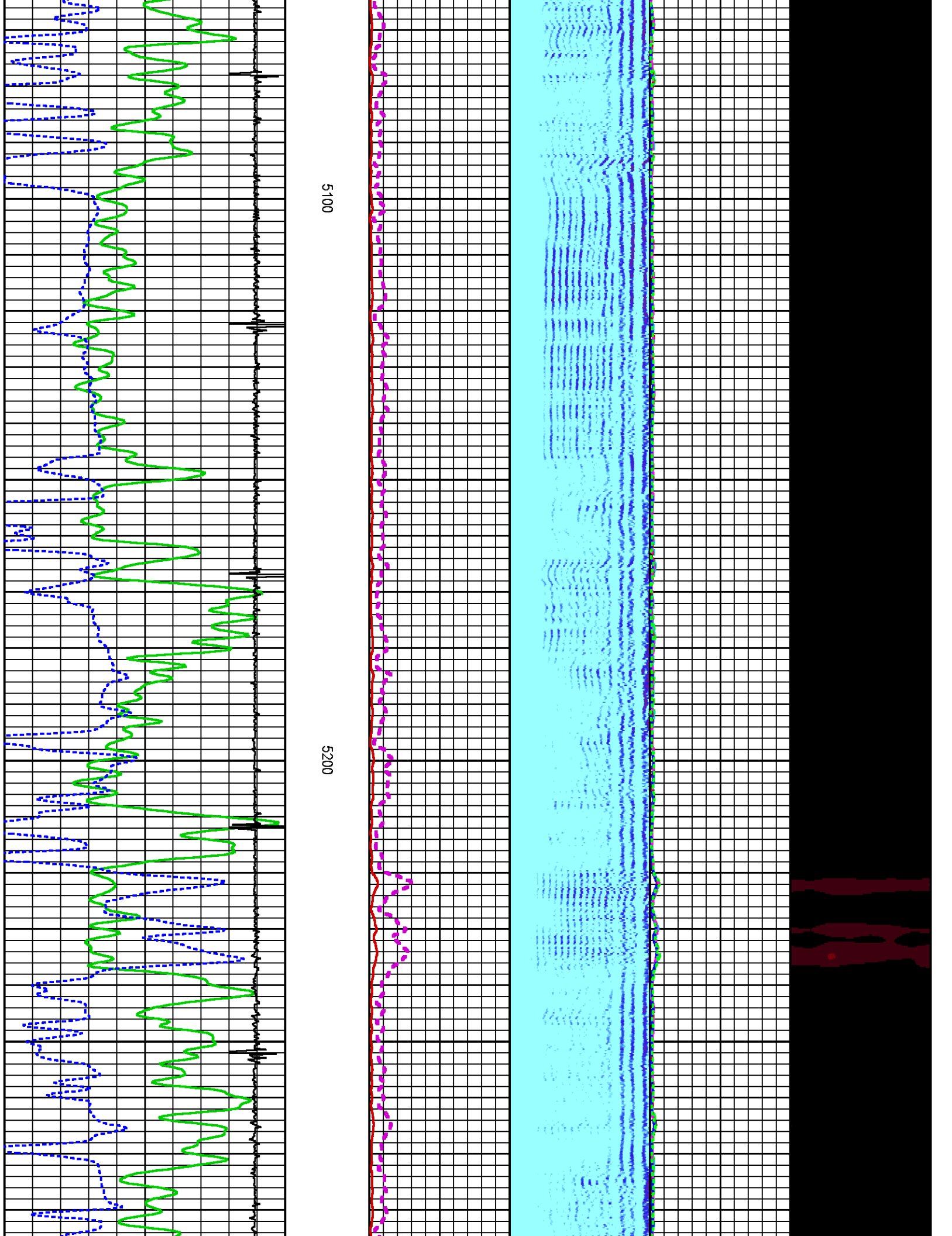


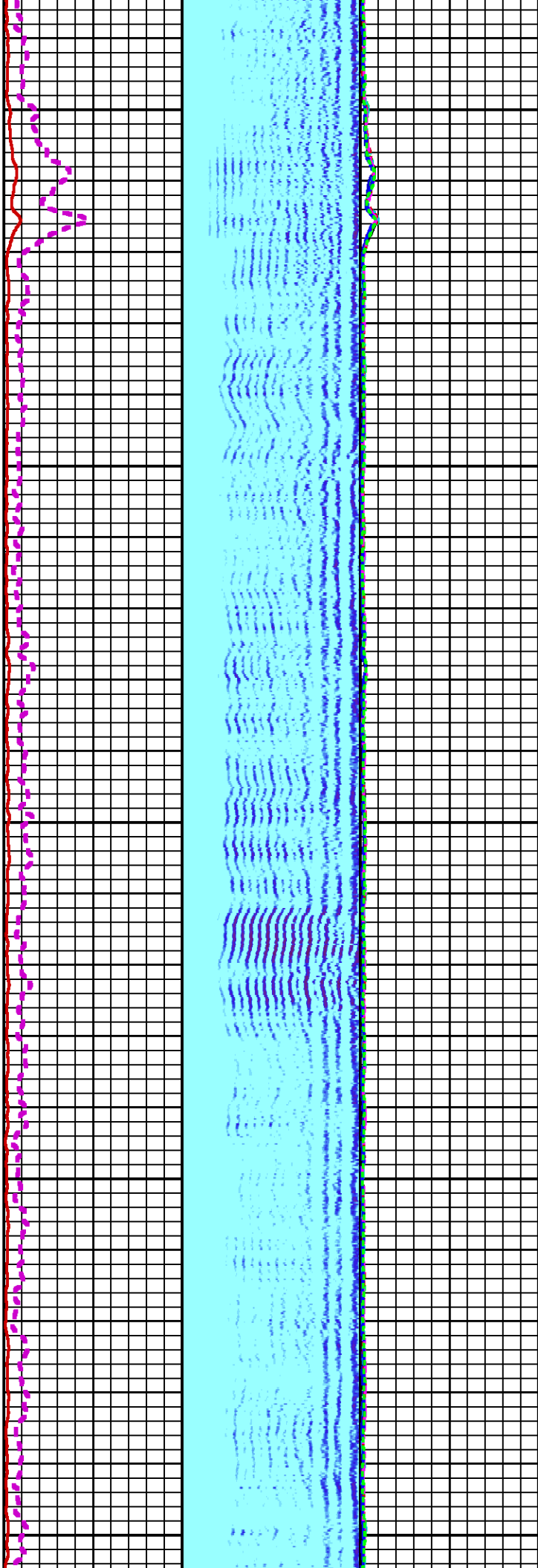








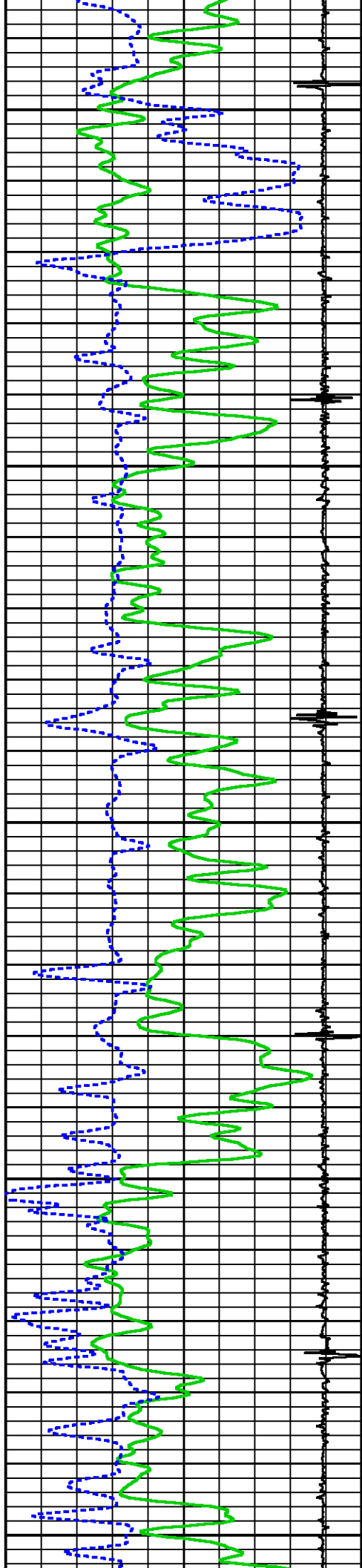


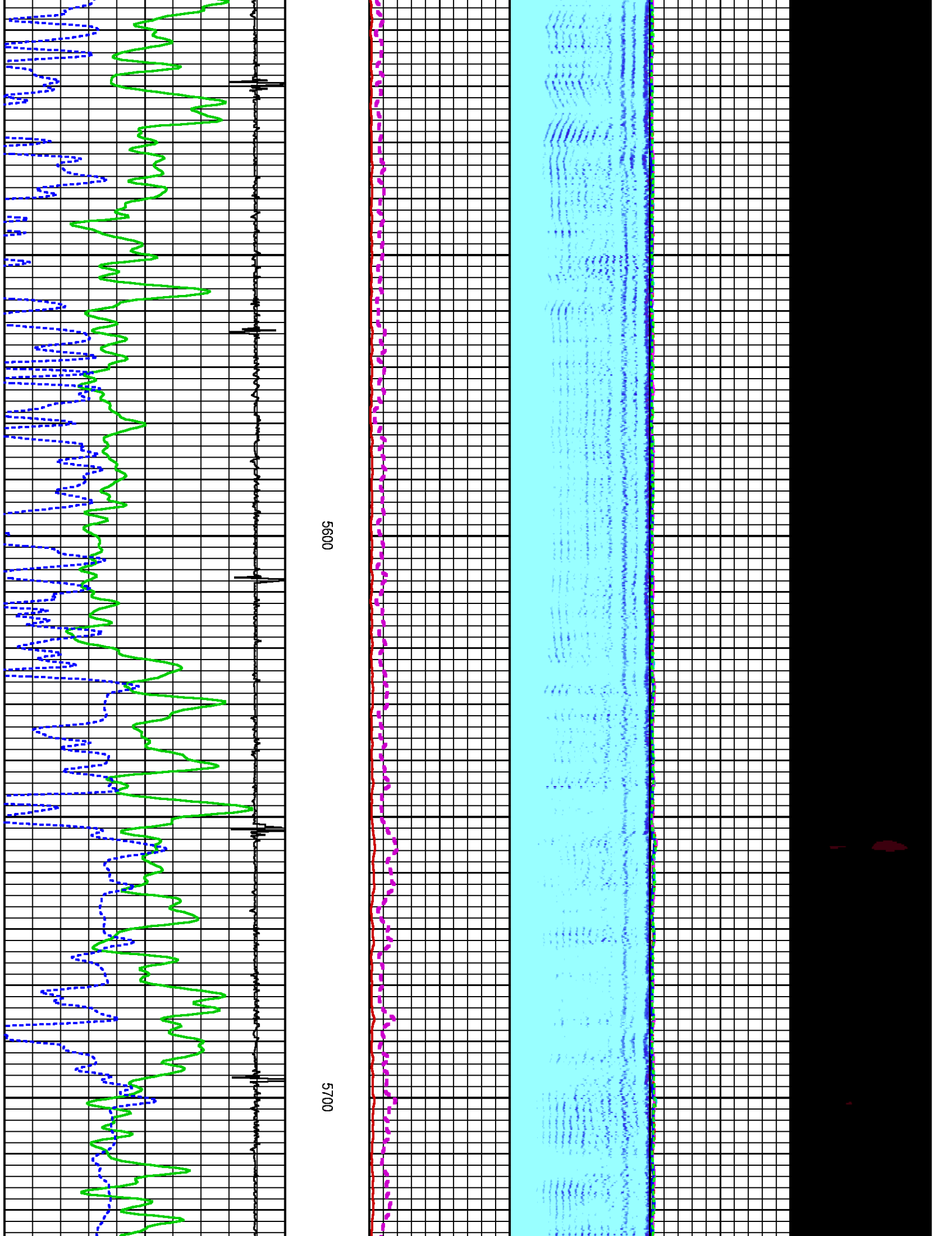


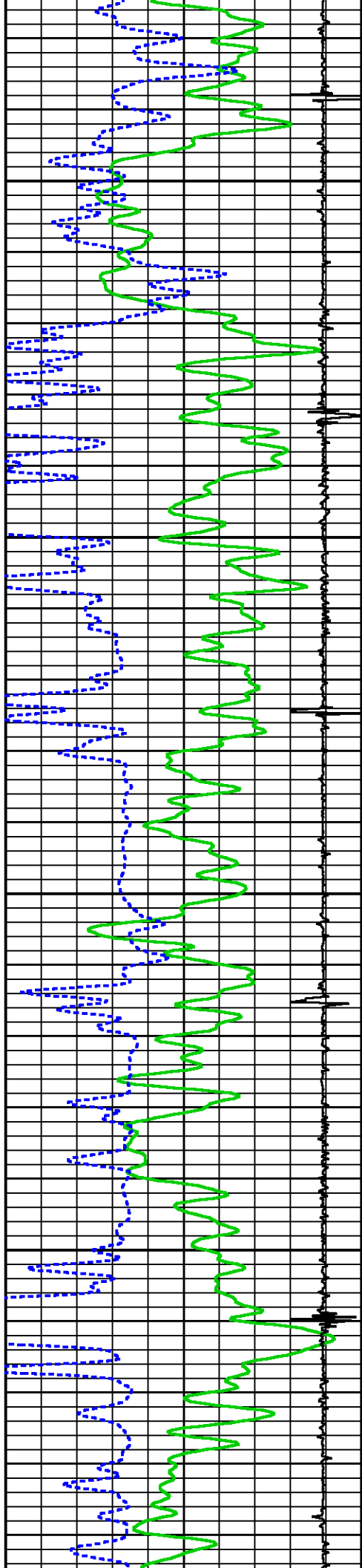
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5400

5500

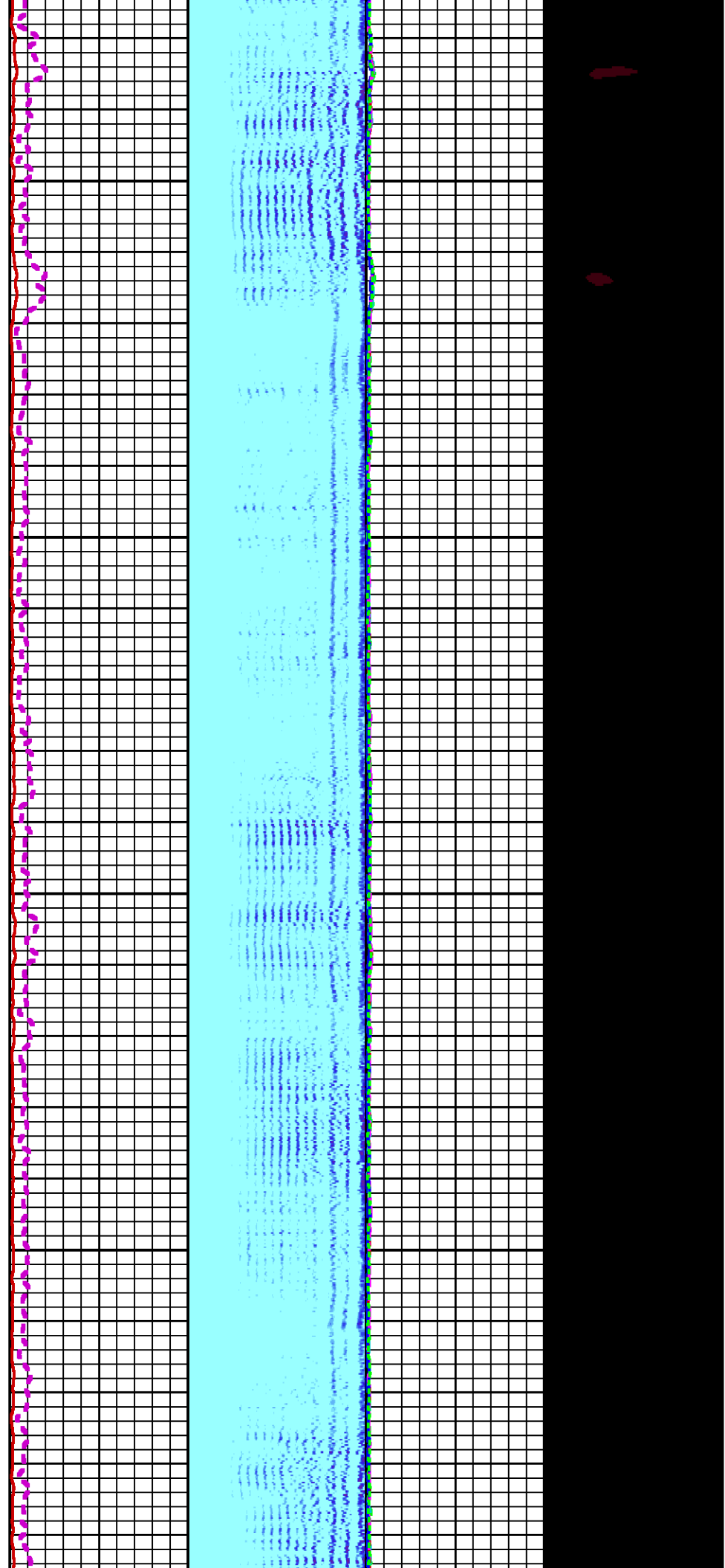




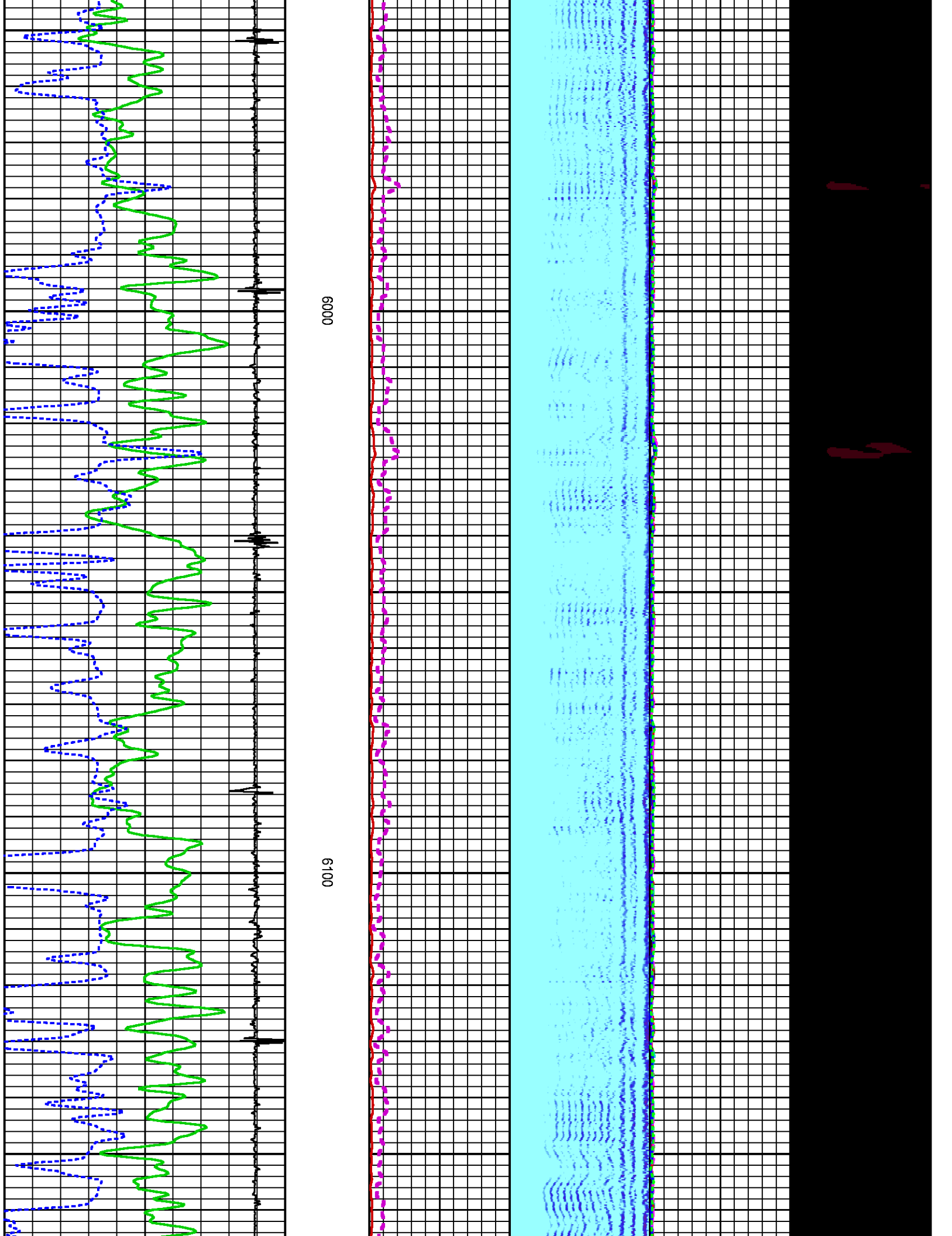


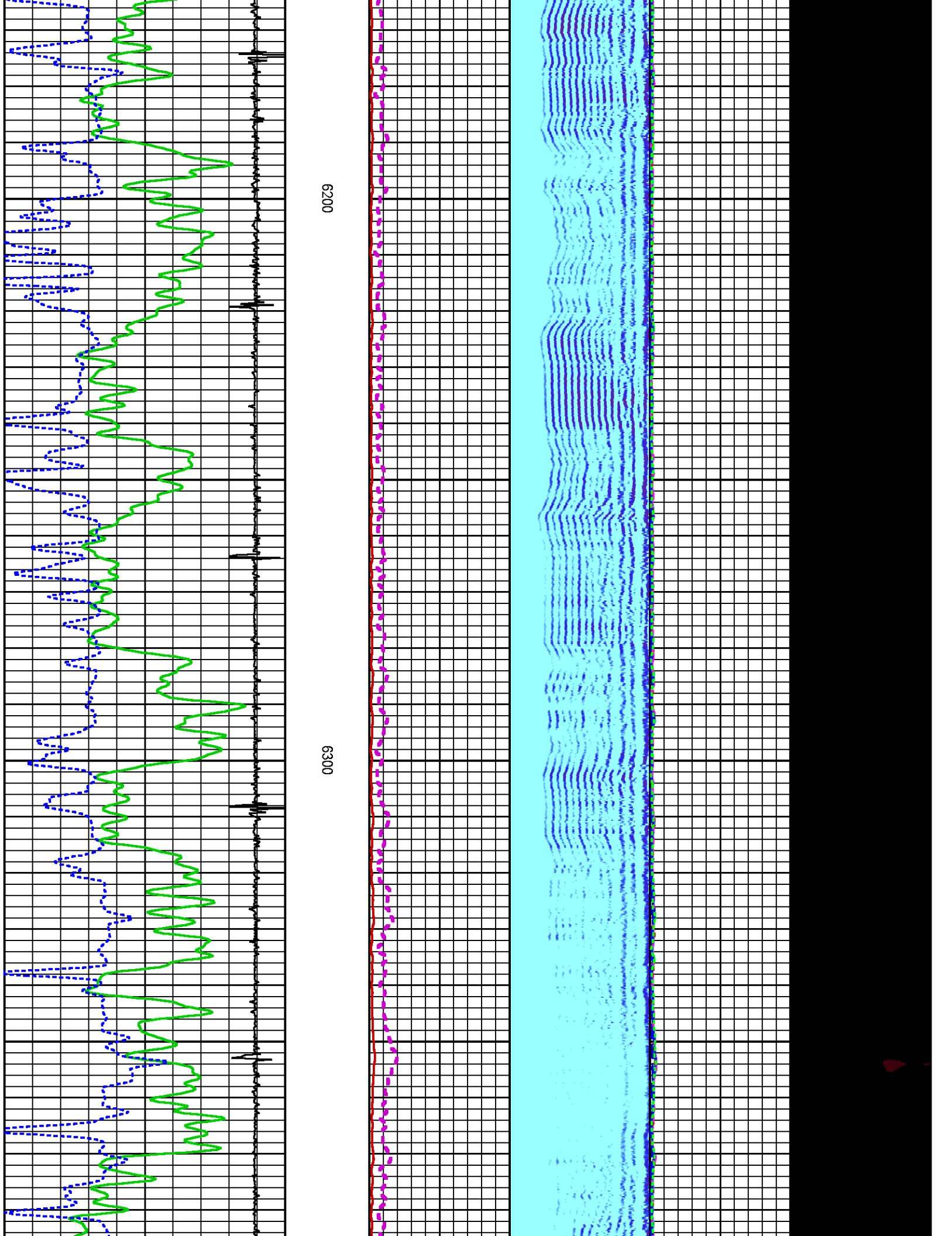
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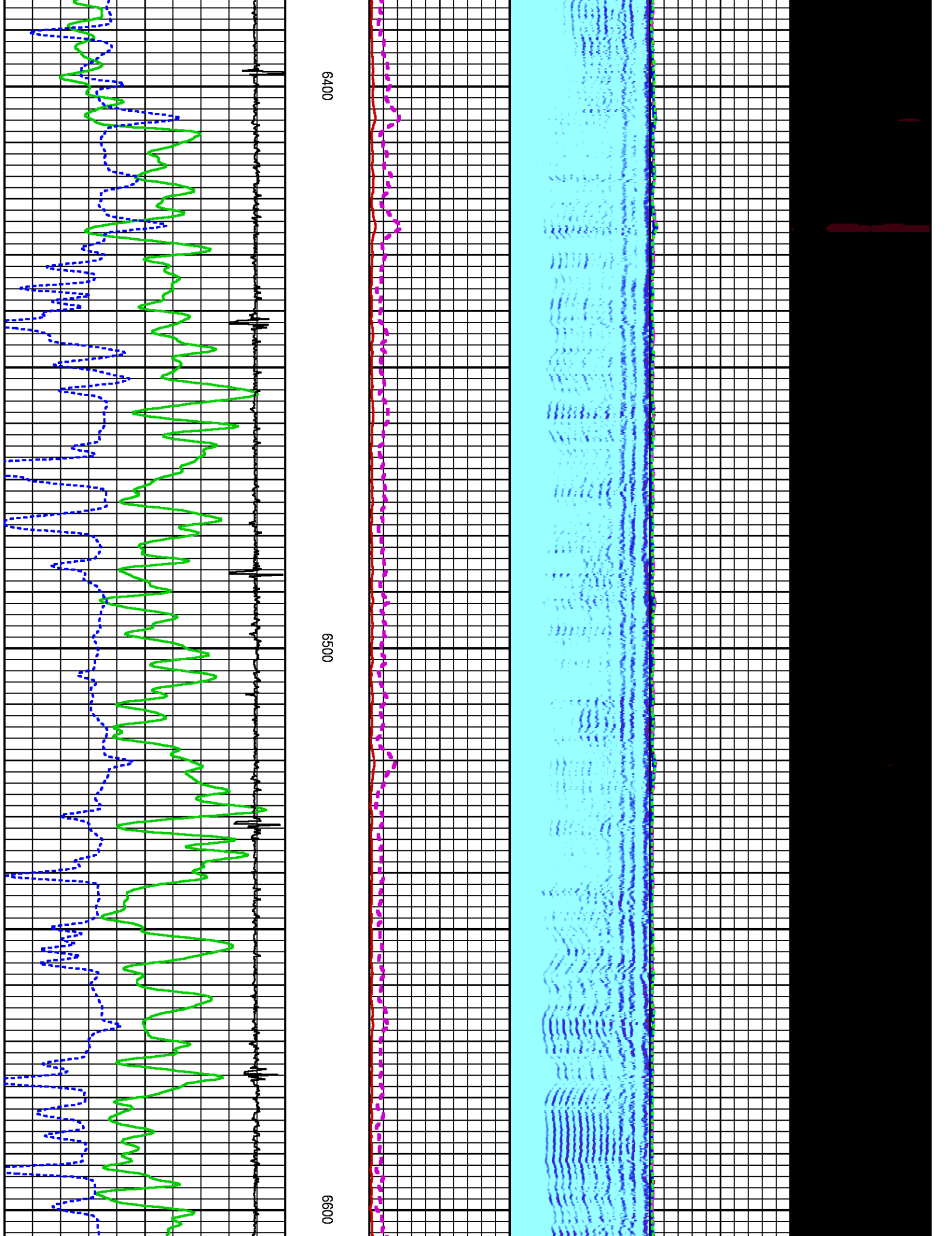
5900

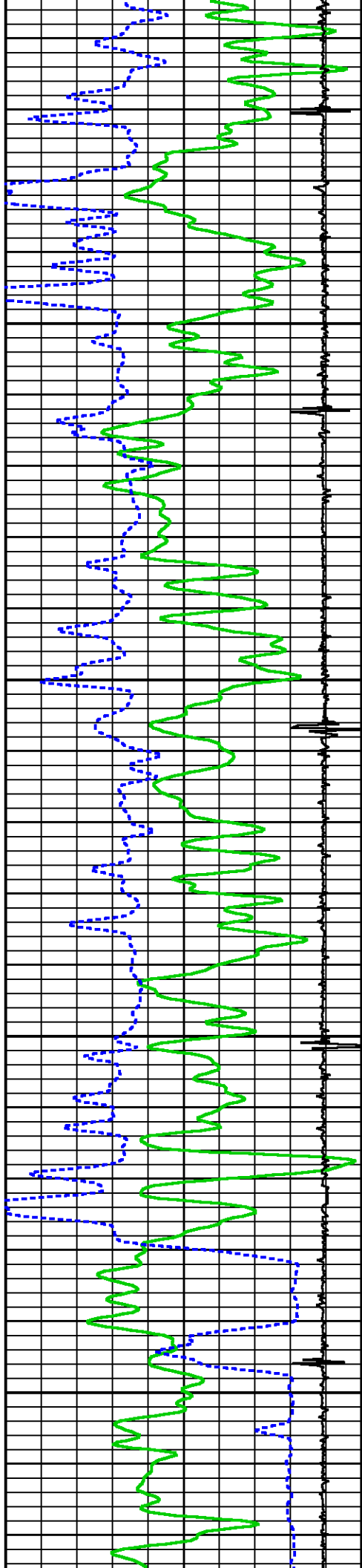






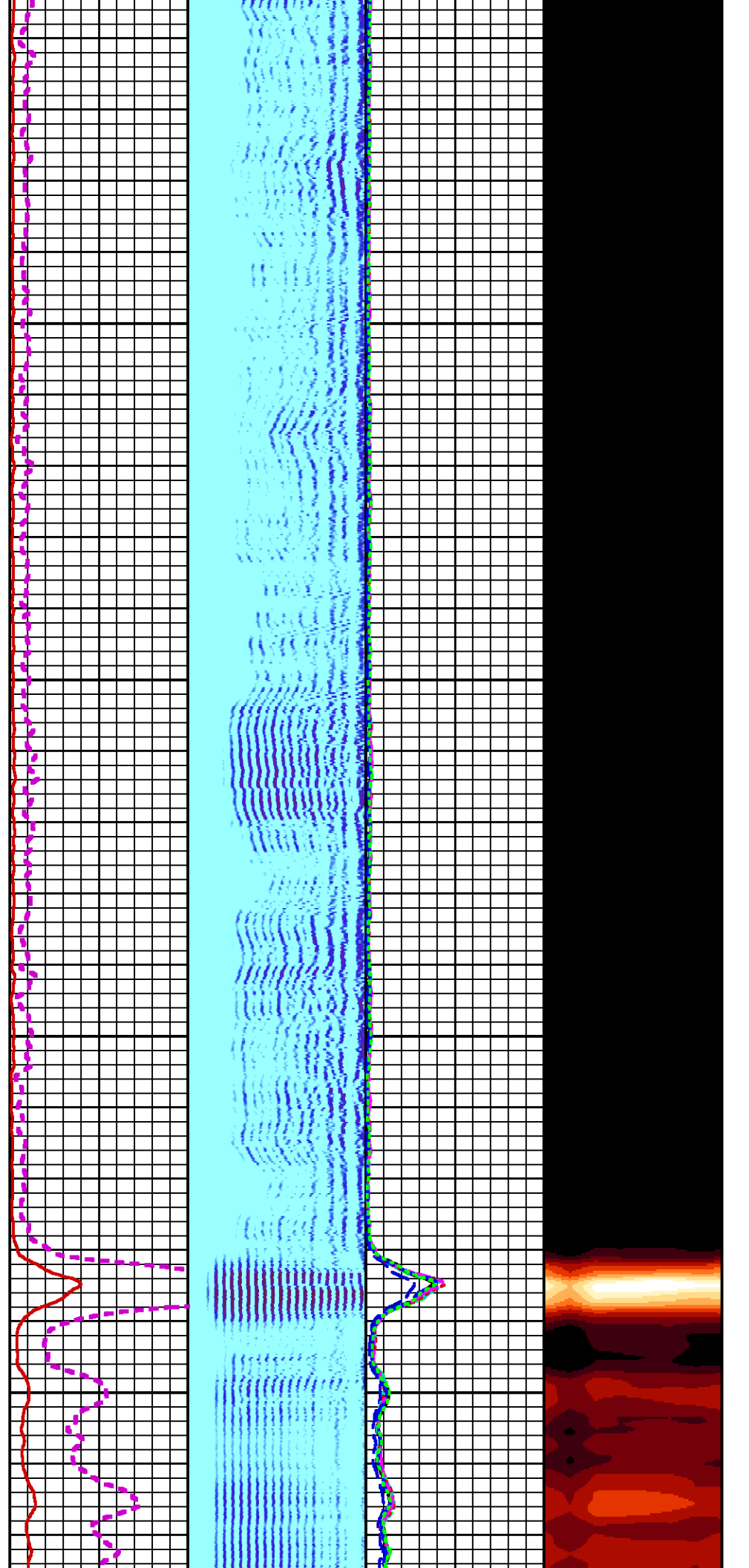




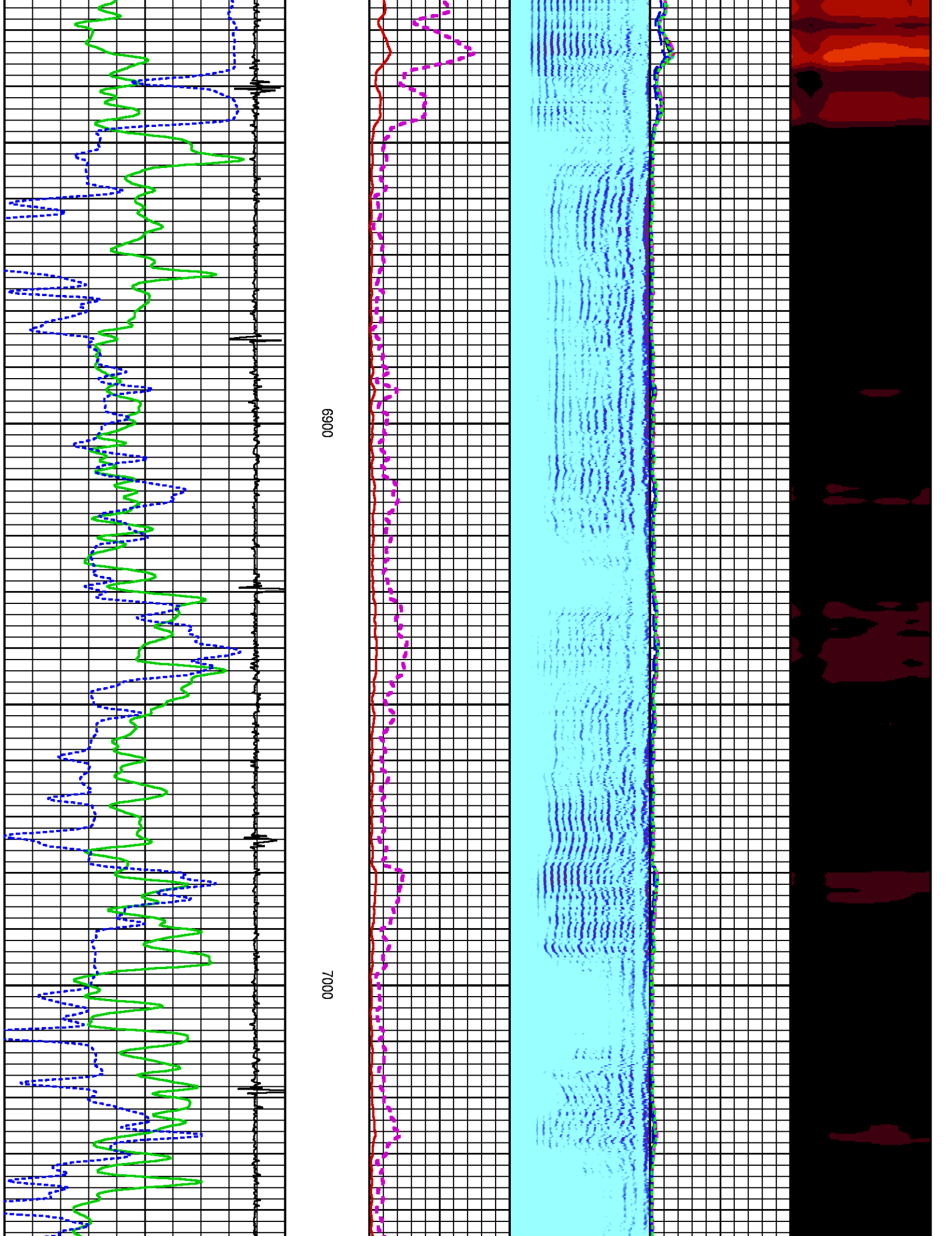


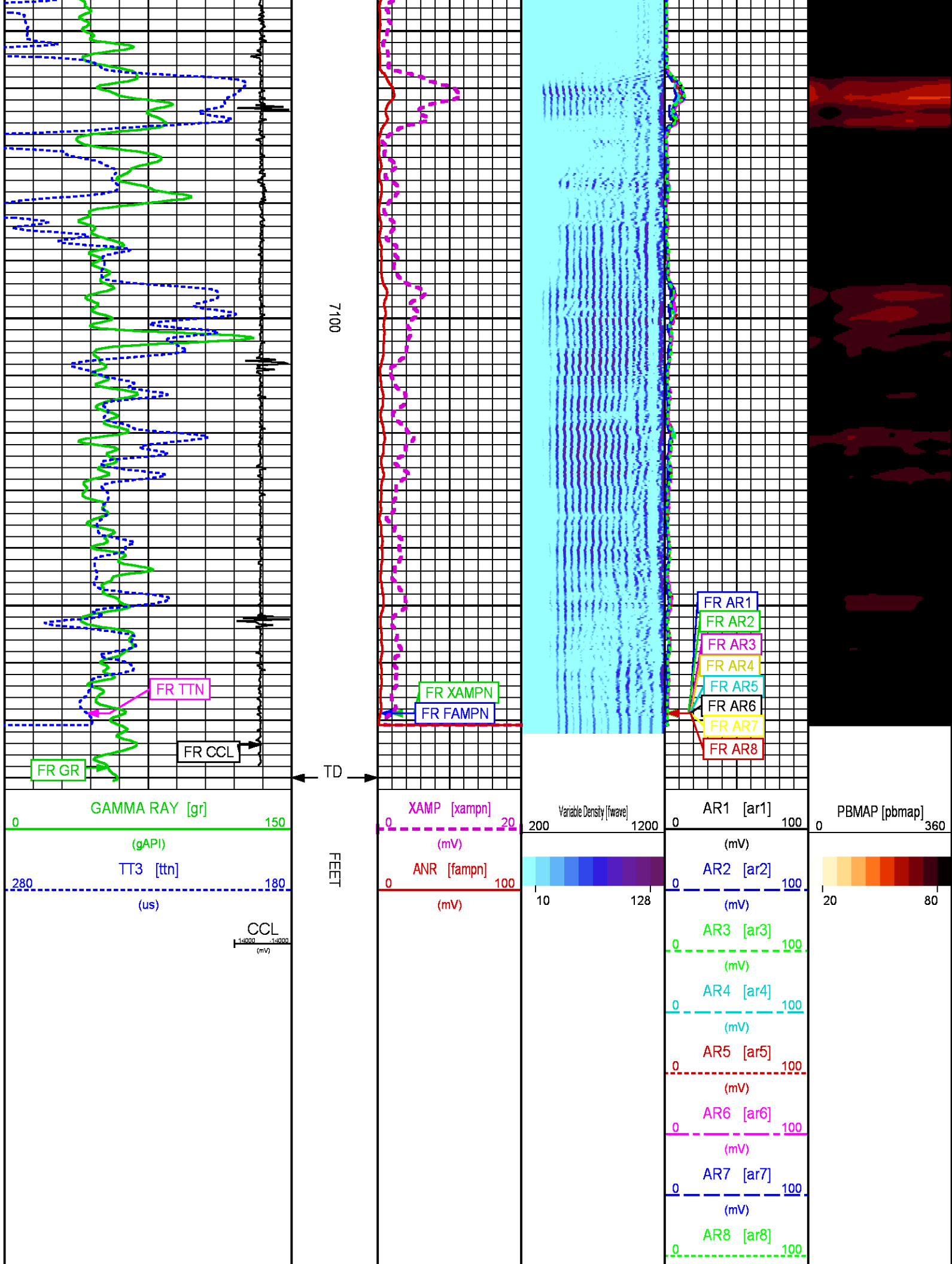
6700

6800









# REPEAT PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1,36 Patches: 9

Plotted: Sun Jun 19 17:10:14 2016

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH107930/n012g01.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 6946.750 ft BOTTOM DEPTH: 7186.000 ft

### SYMMETRIC FILTER

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

### RAL CCL PROCESSING

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

### ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	173	us	"	"
	TT WINDOW LENGTH	444	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-67	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	121	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Jun 19 15:39:25 2016	CASING COLLAR LOCATOR
F1:FAMPN	Jun 19 15:39:25 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jun 19 15:39:25 2016	FAR WAVE FORM
F1:GR	Jun 19 15:39:25 2016	GAMMA RAY
F1:TTN	Jun 19 15:39:25 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jun 19 15:39:25 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

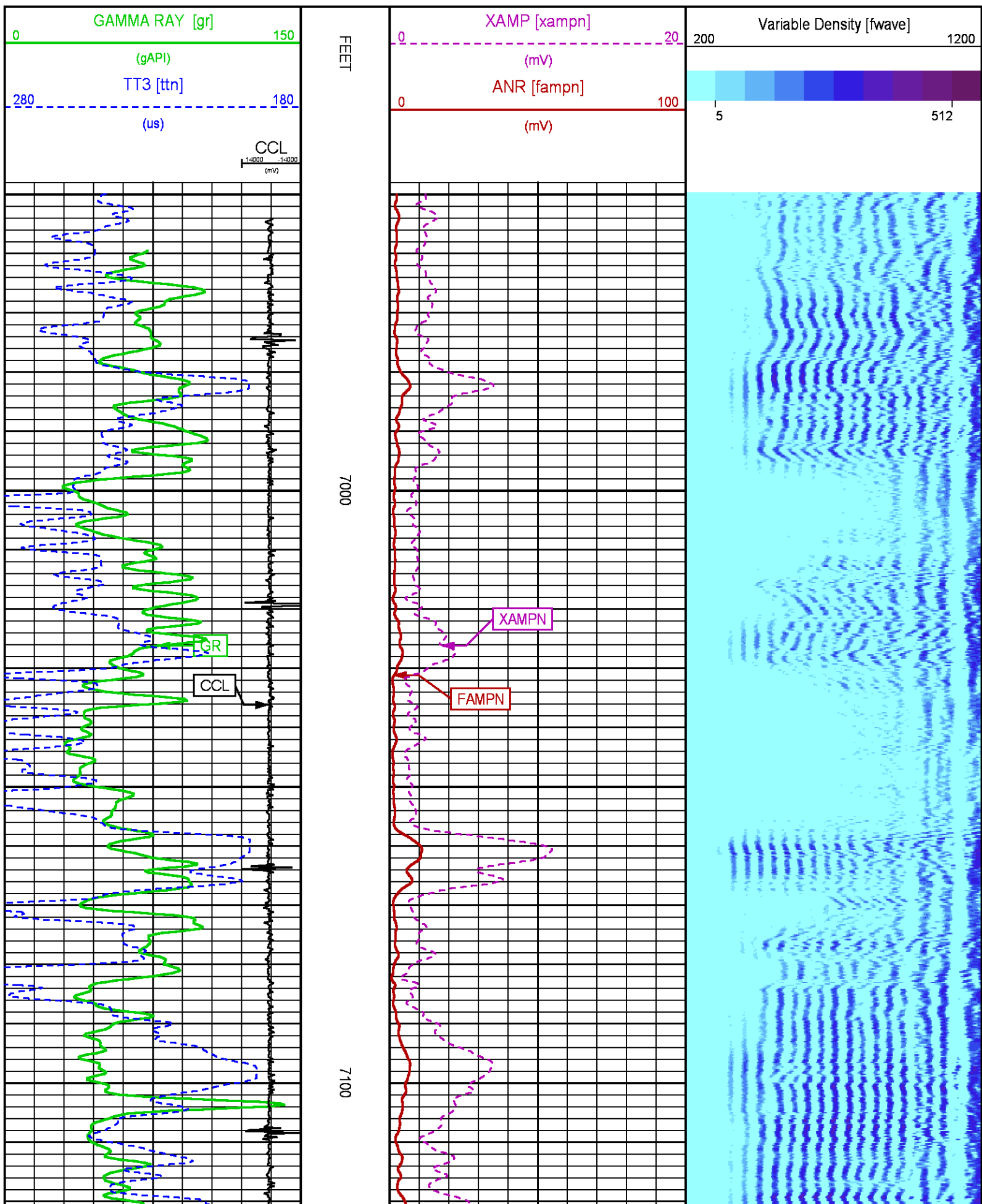
## CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

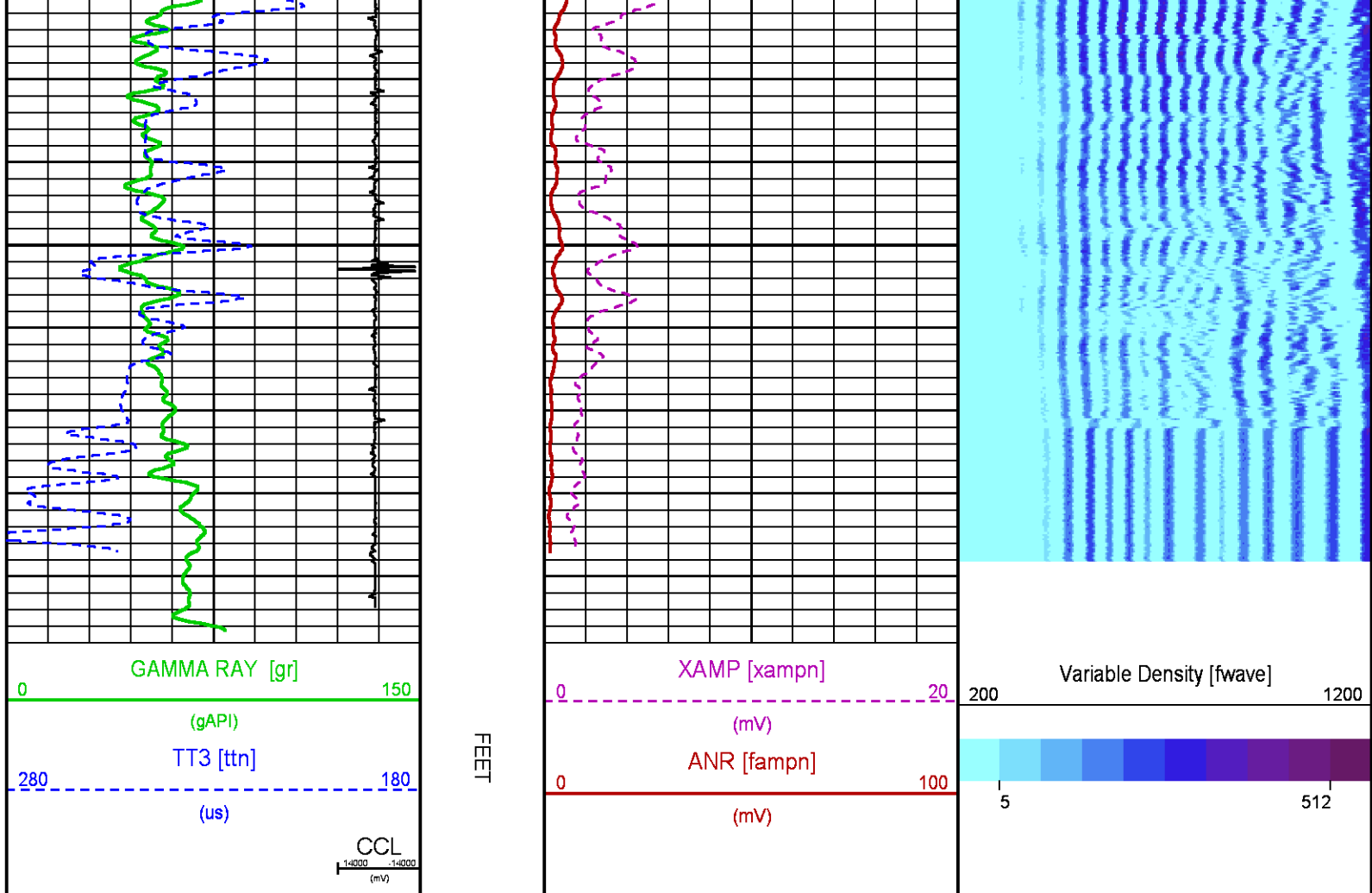
Presentation : cas6685:/dat1a/CH107930/WPX\_ral\_cbl-RPT.fvpdf [5"/100' Scale]  
 Plot Interval : 6949.75 - 7198 Feet

Data File 1 : F1 : cas6685:C:\dat1a\CH107930  
 Created On : Jun 19 15:39:25 2016

Company : WPX ENERGY  
Well : FEDERAL GM 43-8  
Field : GRAND VALLEY  
File Interval : 6935.25 - 7199.5 Feet  
OCT : n012g







## CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\CH107930\012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Fri Jun 17 09:41:12 2016

UNIT #: 3885TC 6685

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

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	-0.03	0.13	0.01	0.11	0.03	-0.01	-0.02	-0.06	-0.02	0.20	-0.09
AMP FLUID (mV)	110	110	110	110	110	109	110	109	110	146	109

TT (us)	215	215	215	215	215	215	214	213	215	329	214
M FACTOR	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	1.03	0.92

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #:	1426XA 10417452	DATE/TIME PERFORMED:	Sun Jun 19 15:08:49 2016	DAYS SINCE CAL:	2
UNIT #:	3885TC 6685	CABLE #:	HL6685 SMALL1		

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
ZERO	-0.01	0.02	0.03	-0.01	-0.06	0.00	-0.04	-0.01	0.04	0.13	0.02
AMP AIR	0.44	0.31	0.07	0.82	0.61	0.36	0.57	0.18	0.22	1.08	101.13

SHOP	SHOP	WIRELINE
M FACTOR	A FACTOR	FACTOR
0.92	0.00	0.99

GR PRIMARY CALIBRATION SUMMARY

TOOL #:	1355XA 11871510	DATE/TIME PERFORMED:	Fri Jun 17 09:45:46 2016
UNIT #:	3885TC 6685	CALB JIG #:	4702NK BA-905

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

INSTRUMENT CONFIGURATION

Source File: C:\dat1a\CH107930\012g~tdg

CABLEHEAD

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



20.38°

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

NEAR RCVR 11.17"

FAR RCVR 10.21"


RAL GR/TEMP/CCL/CHV DETECTOR  
 Diameter : 2.75"  
 Length : 6.96"  
 Weight : 85 lbs  
 Series : 1355XA  
 Mnemonic : RAL  
 Measure Point: 5.79": CCL  
 Measure Point: 1.67": GR  
 Measure Point: 0.17": TEMP

CCL 5.79"

GR 1.67"

TEMP 0.17"

TOTAL LENGTH: 20.38"  
 TOTAL WEIGHT: 225 lbs  
 MAX DIAMETER: 0.4.25"

	COMPANY	WPX ENERGY		FILE NO:	CH107930
	WELL	FEDERAL GM 43-8		API NO:	05045225260000
	FIELD	GRAND VALLEY			
	COUNTY	GARFIELD	STATE	COLORADO	
LOCATION:			ELEVATIONS:	SEC8 T.7S R.96W	
SHL:676'FNL&545'FWL SEC9 T7S R96W			KB 6111 FT	PAD: MV 16-9	
BHL:2411'FSL&648'FEL SEC8 T7S R96W			DF	RIG: H&P 318	
NE/SE			GL 6087 FT		
SEC 8 TWP 7S RGE 96W			DATE	19-Jun-2016	