



FILE NO: CH105821	COMPANY WPX ENERGY
API NO: 05045227970000	WELL FEDERAL RU 32-8
	FIELD RULISON
	COUNTY GARFIELD
	STATE COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
SEC8 T.7S R.93W	SHL: 646 FNL & 1900' FWL	
RU 21-8 PAD	BHL: 1593 FNL & 1423' FEL	RPM
RIG: H&P 318	SEC 8 TWP 7S RGE 93W	

PERMANENT DATUM	G.L.	ELEVATION	7736 FT	ELEVATIONS: KB 7760 FT DF GL 7736 FT
LOG MEASURED FROM	K.B.	24 FT	ABOVE P.D.	
DRILL. MEAS. FROM	K.B.			

DATE	19-Feb-2016
RUN	1
SERVICE ORDER	US105821J
DEPTH DRILLER	10330 FT
DEPTH LOGGER	10250 FT
BOTTOM LOGGED INTERVAL	10248 FT
TOP LOGGED INTERVAL	0 FT
TIME STARTED	19:00
TIME FINISHED	22:30
OPERATOR RIG TIME	3.5
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	85 FT
LOGGED CEMENT TOP	SEE LOG
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MN
MAX. RECORDED TEMP.	244 DEGF
REFERENCE LOG	NA
REFERENCE LOG DATE	NA
EQUIP. NO.	HL-6685
LOCATION	GRAND JCT.
RECORDED BY	SPENCER
WITNESSED BY	MR. BEAUDE 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	0 FT	1200 FT
8.75 IN	1200 FT	10330 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN			0 FT	1200 FT
4.5 IN	11.6 LB/F	P-110	0 FT	10330 FT

REMARKS

RUN 1 TRIP 1: THIS IS THE FIRST LOGGING RUN ON THIS WELL. THE DEPTH OF THE WELLHEAD (TOP CCL READING) HAS BEEN SHIFTED TO MATCH THE GROUND LEVEL ELEVATION.

AMOUNT OF LINEAR SHIFT IS +16 FEET

BHT = 244 DEGF

SJ = 6305' - 6328'

THANKS FOR CHOOSING BAKER HUGHES WIRELINE CREW: COATE / SPENCE

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10404539	CENTRALIZED
1	1	GR / CCL	1355XA	12670181	CENTRALIZED

PRIMARY PRESENTATION 0 PSI

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

Plotted: Fri Feb 19 22:47:29 2016

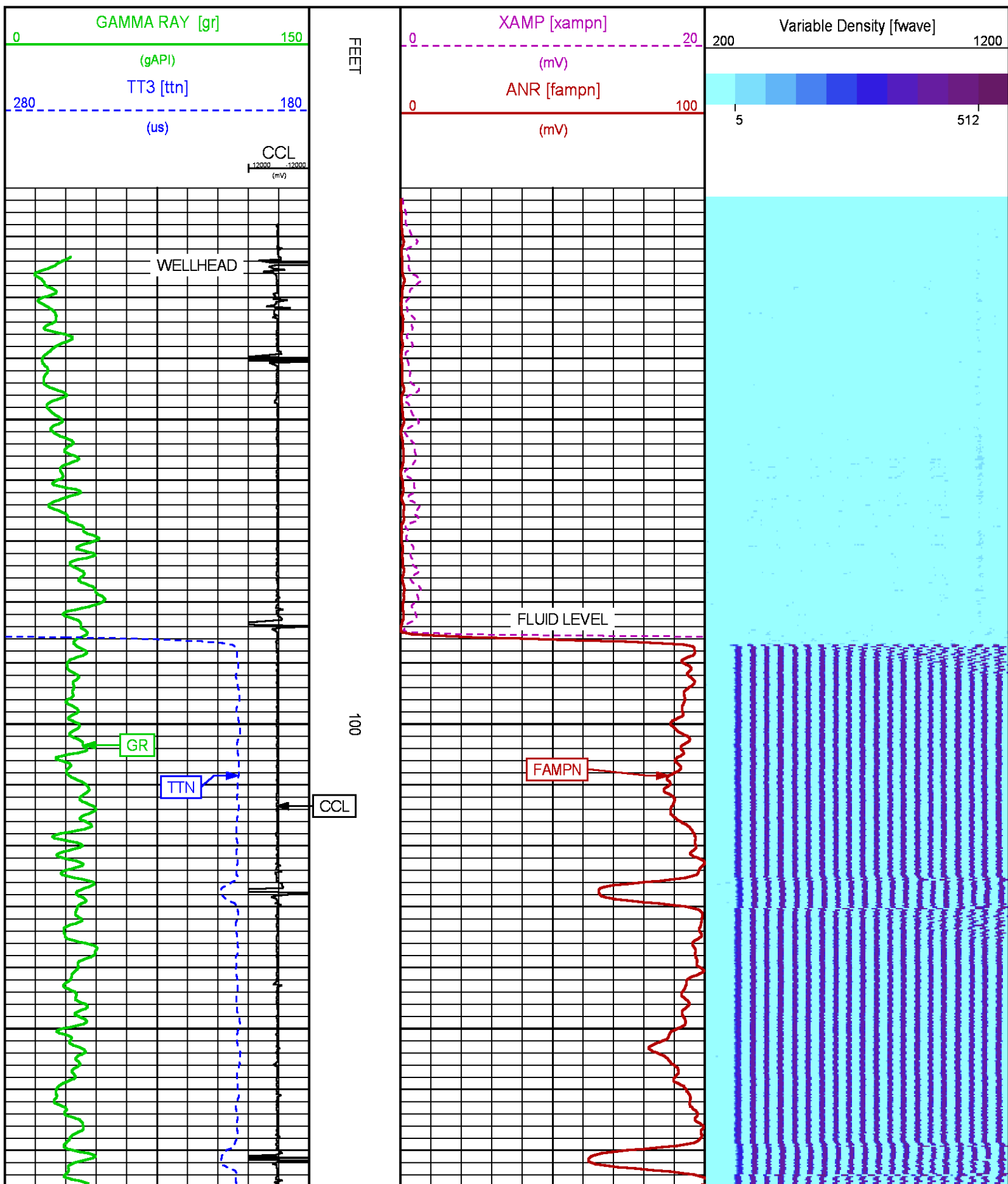
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH105821/n012g02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 7.750 ft BOTTOM DEPTH: 10249.923 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1) light (2a)		TOP 4653.250	4653.250 BOTTOM
TRAVEL TIME	FILTER ()	medium (1)		TOP	BOTTOM
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*)	174	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*)	-64	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	128	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

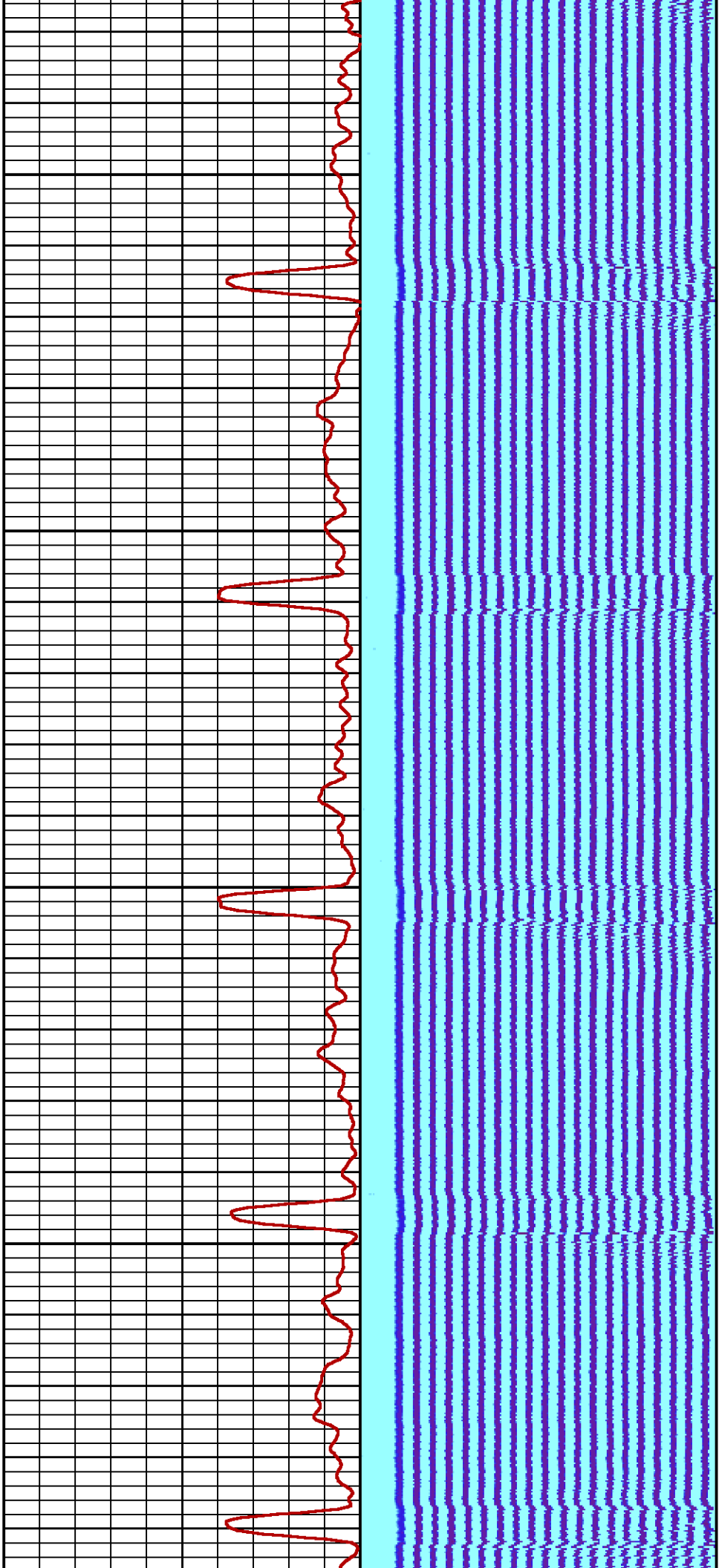
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 19 20:34:32 2016	CASING COLLAR LOCATOR
F1:FAMPN	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 19 20:34:32 2016	FAR WAVE FORM
F1:GR	Feb 19 20:34:32 2016	GAMMA RAY
F1:TTN	Feb 19 20:34:32 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 19 20:34:32 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/CH105821/WPX_ral_cbl-MAIN.fvpdf [5"/100' Scale]
Plot Interval : 13.5 - 10264.2 Feet

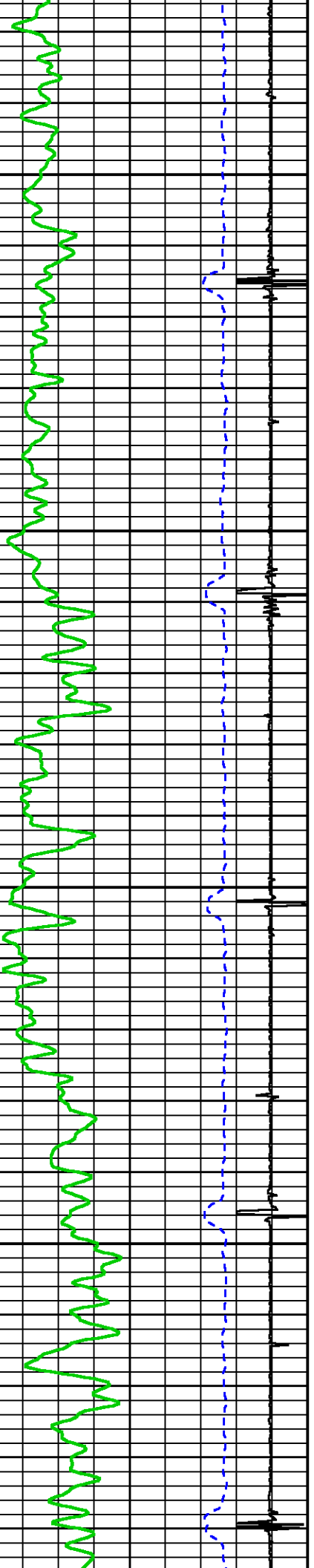
Data File 1 : F1 : cas6685:/dat1a/CH105821/n012g02.xtf
Created On : Feb 19 20:34:32 2016
Company : WPX ENERGY
Well : FEDEARL RU 32-8
Field : RULISON
File Interval : -3.5 - 10265.8 Feet
OCT : n012g

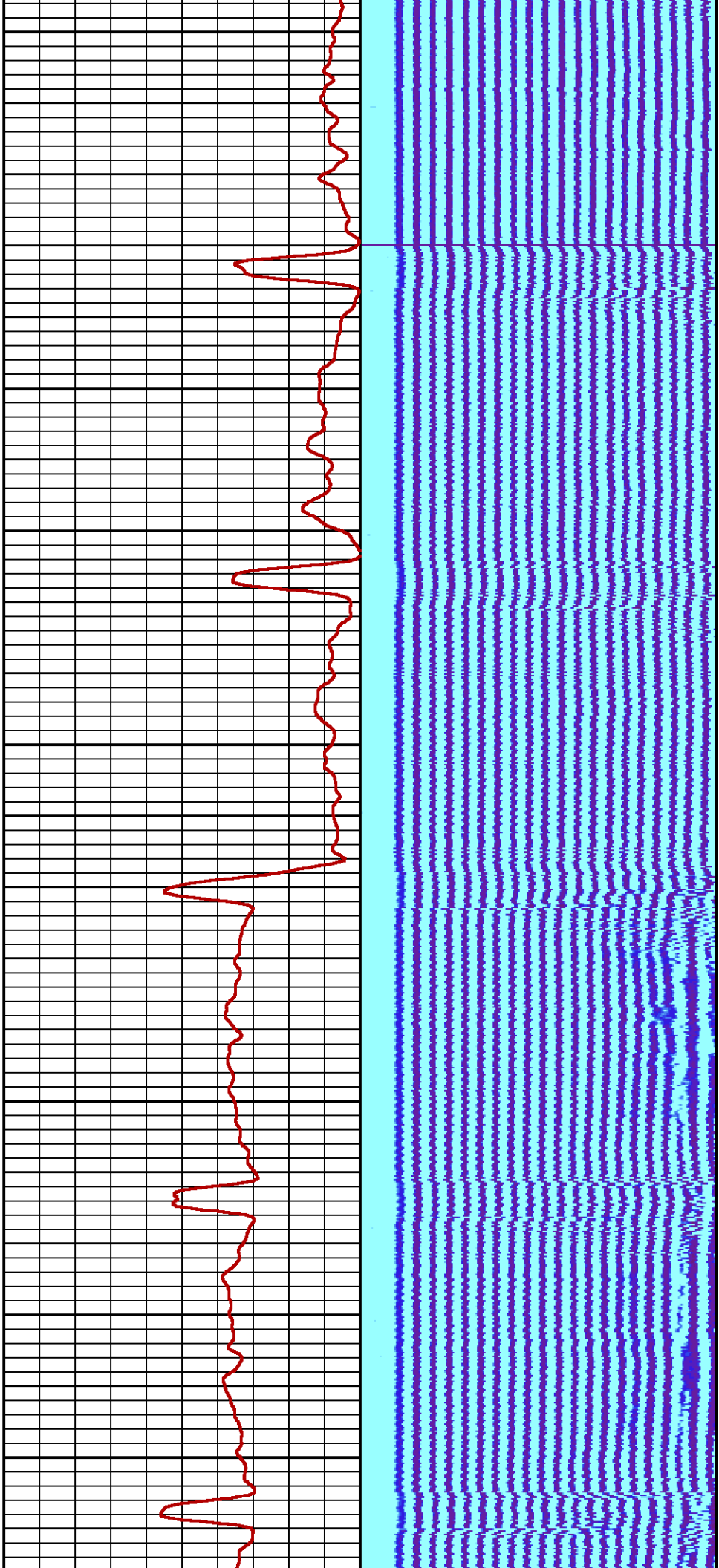




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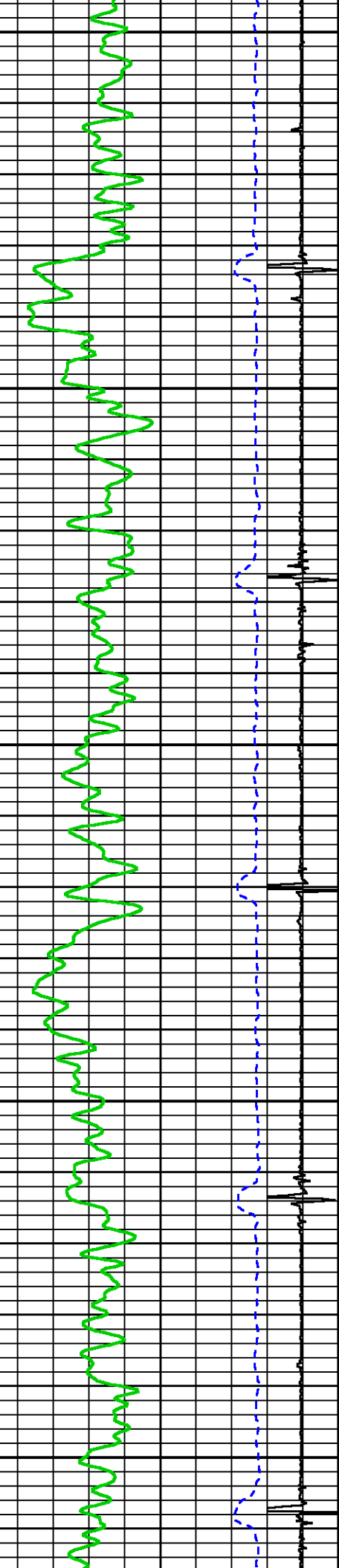


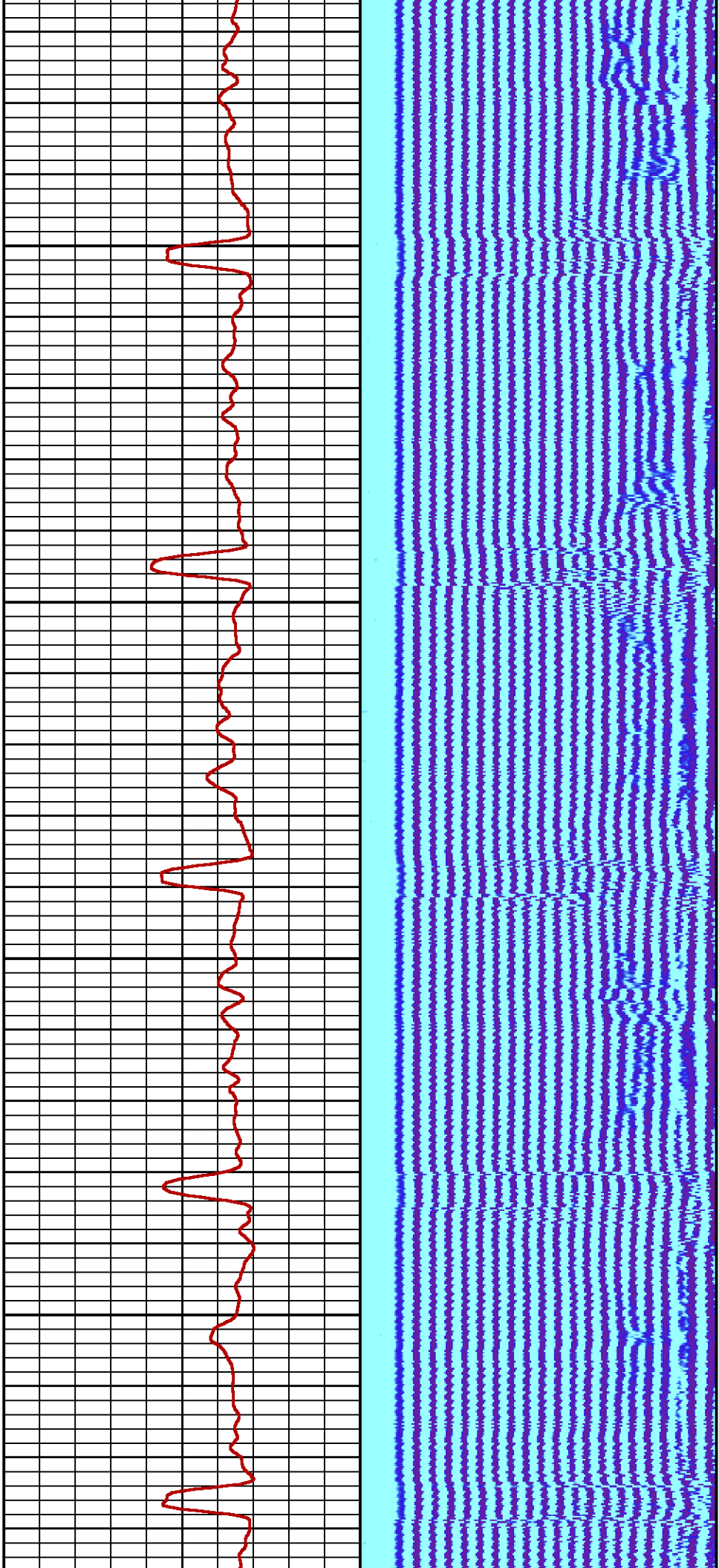


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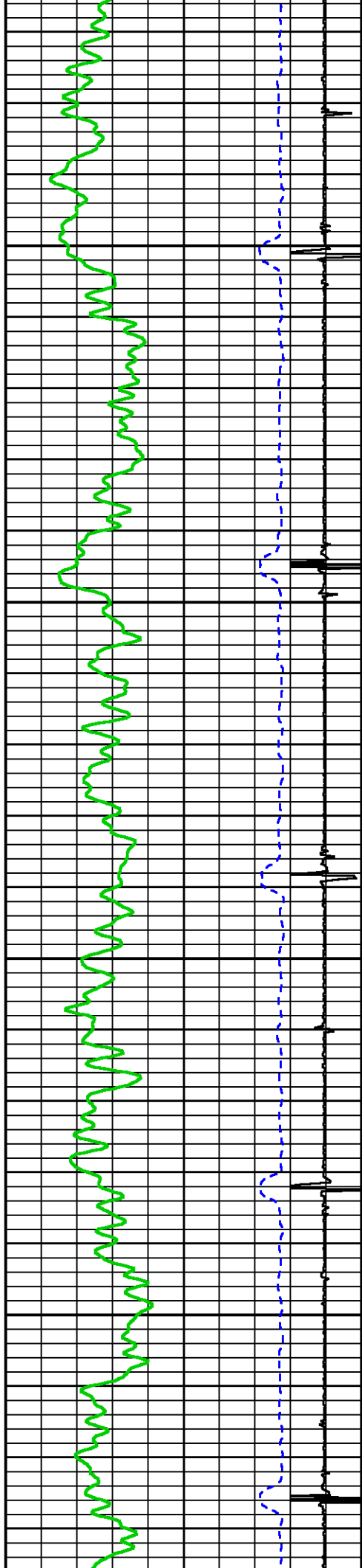
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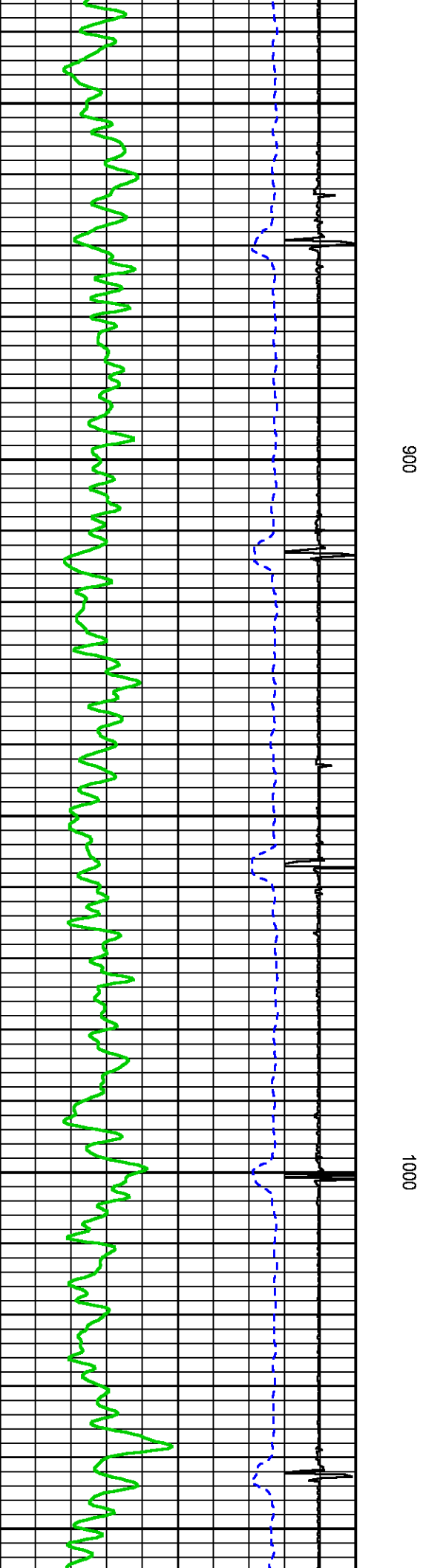
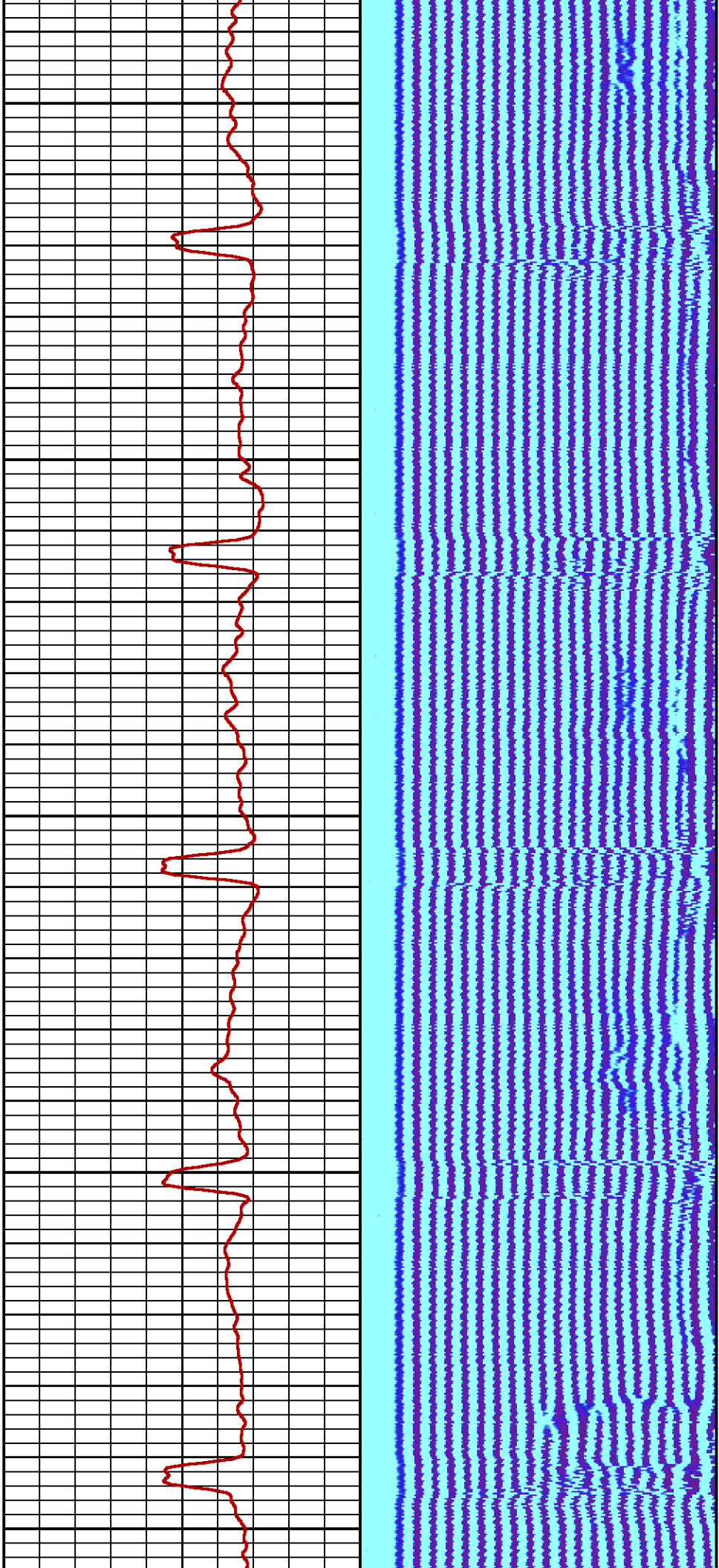


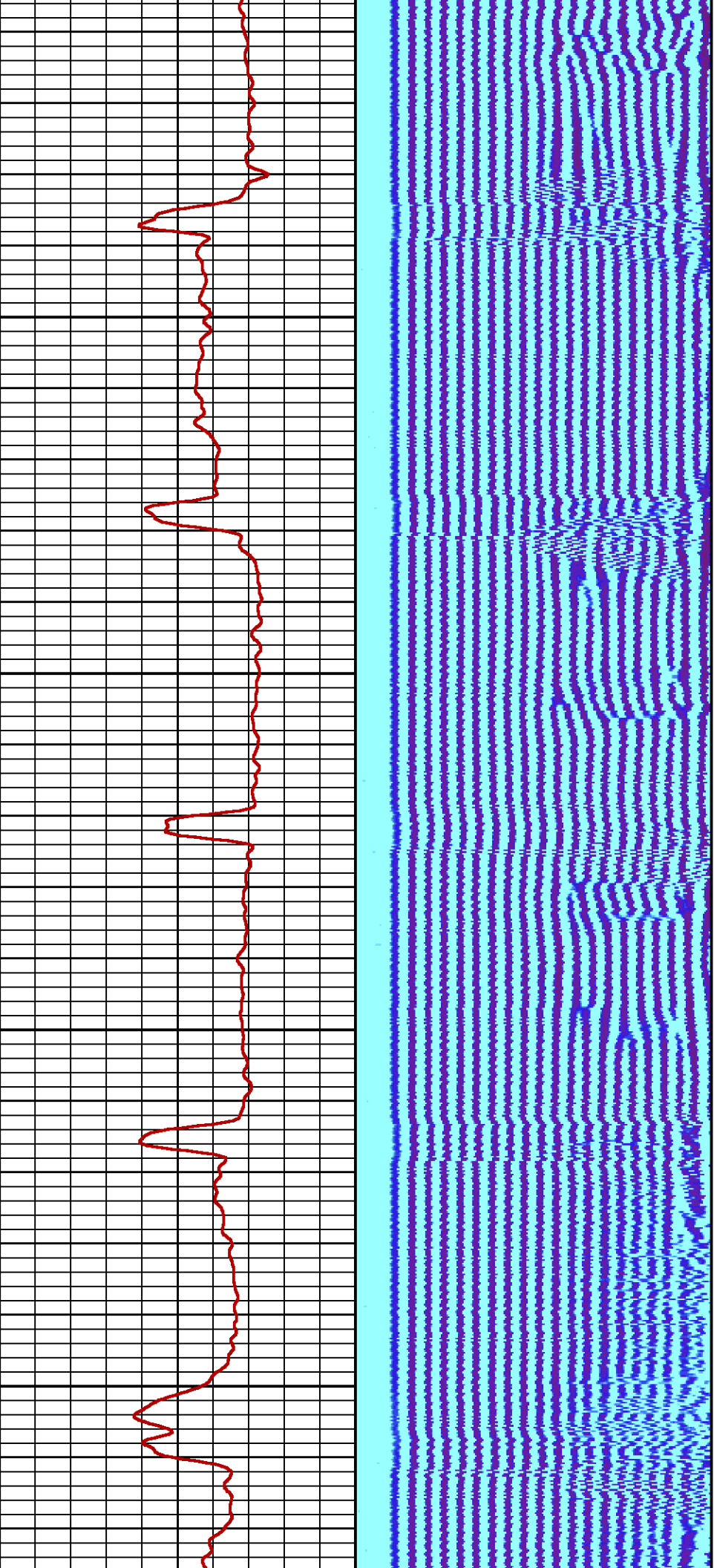


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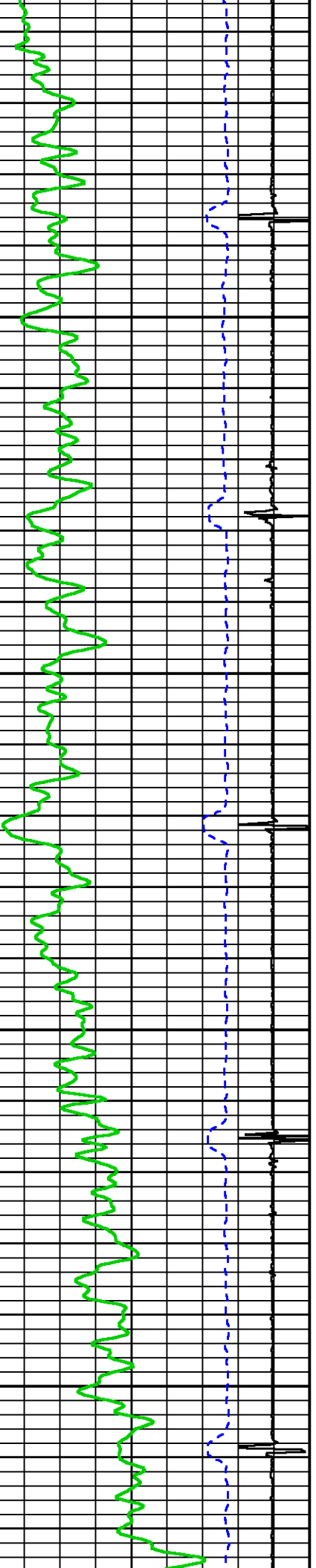


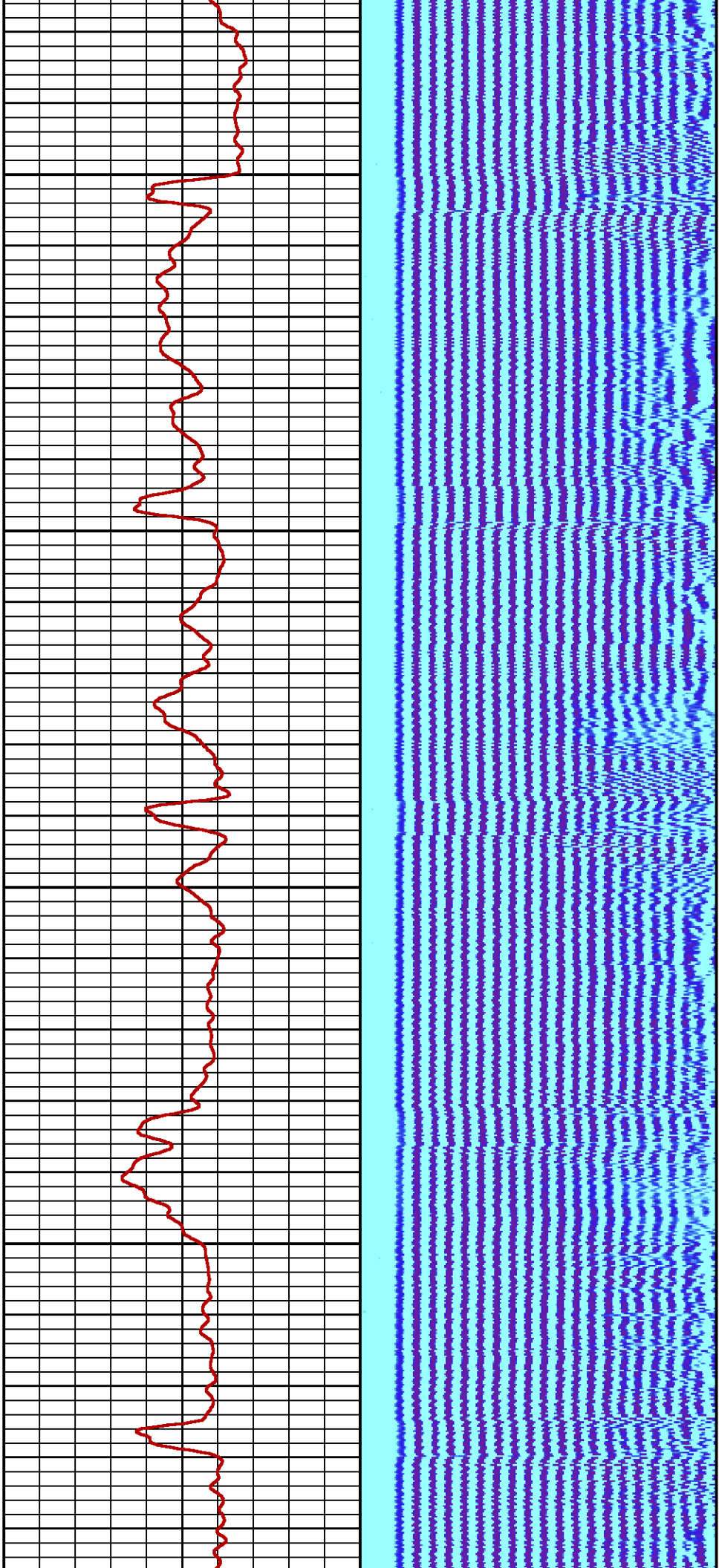




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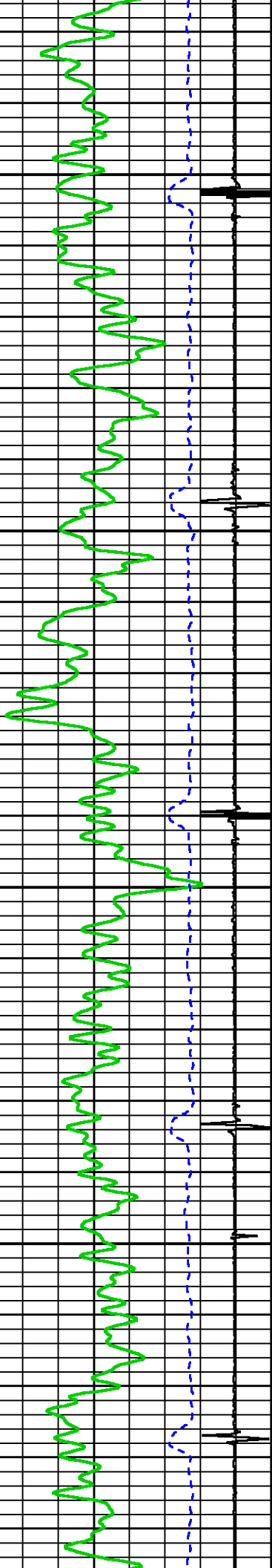
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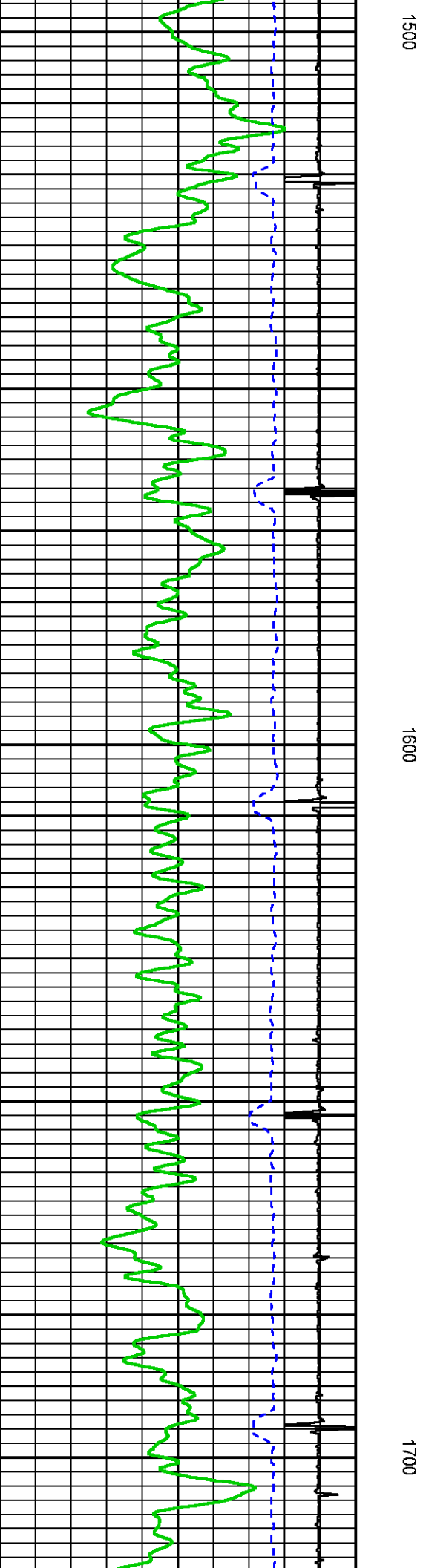
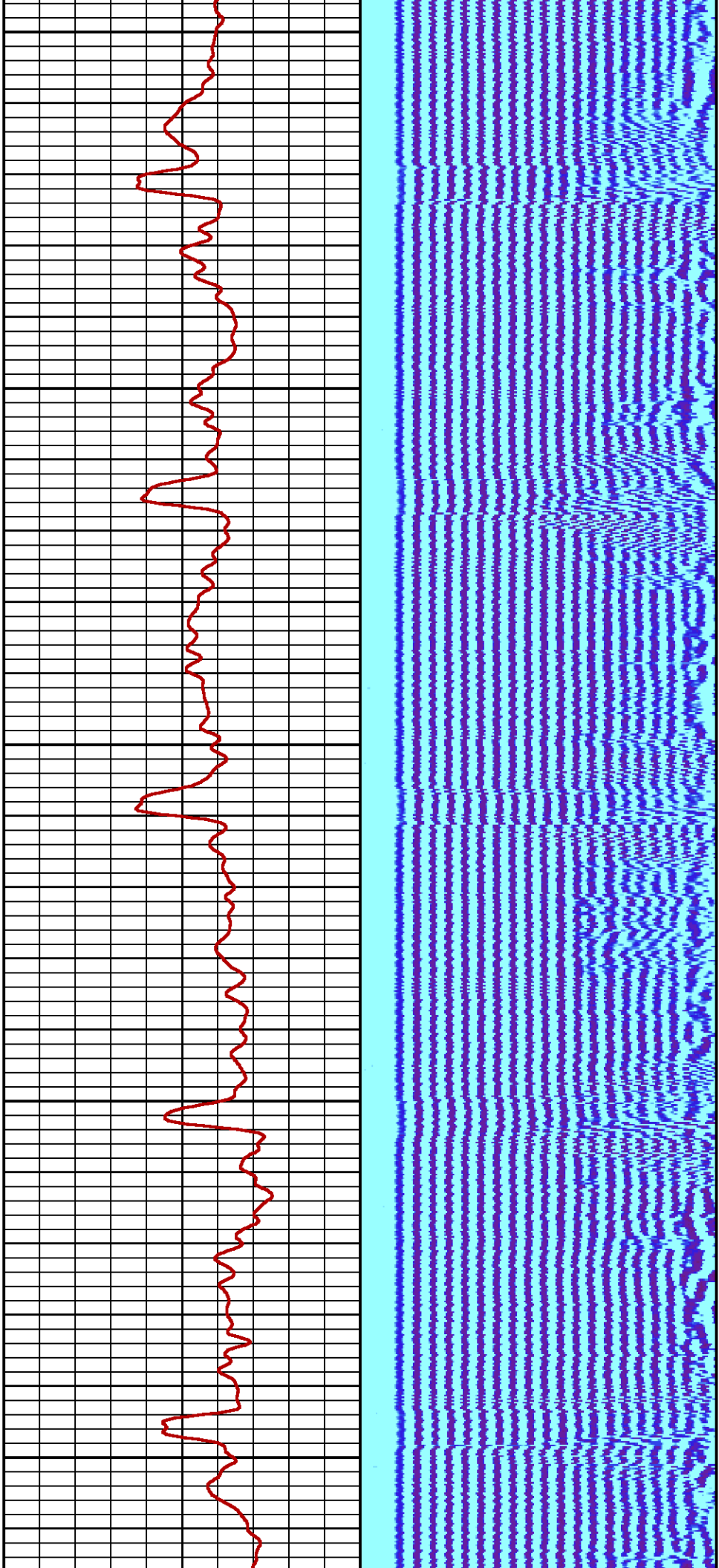


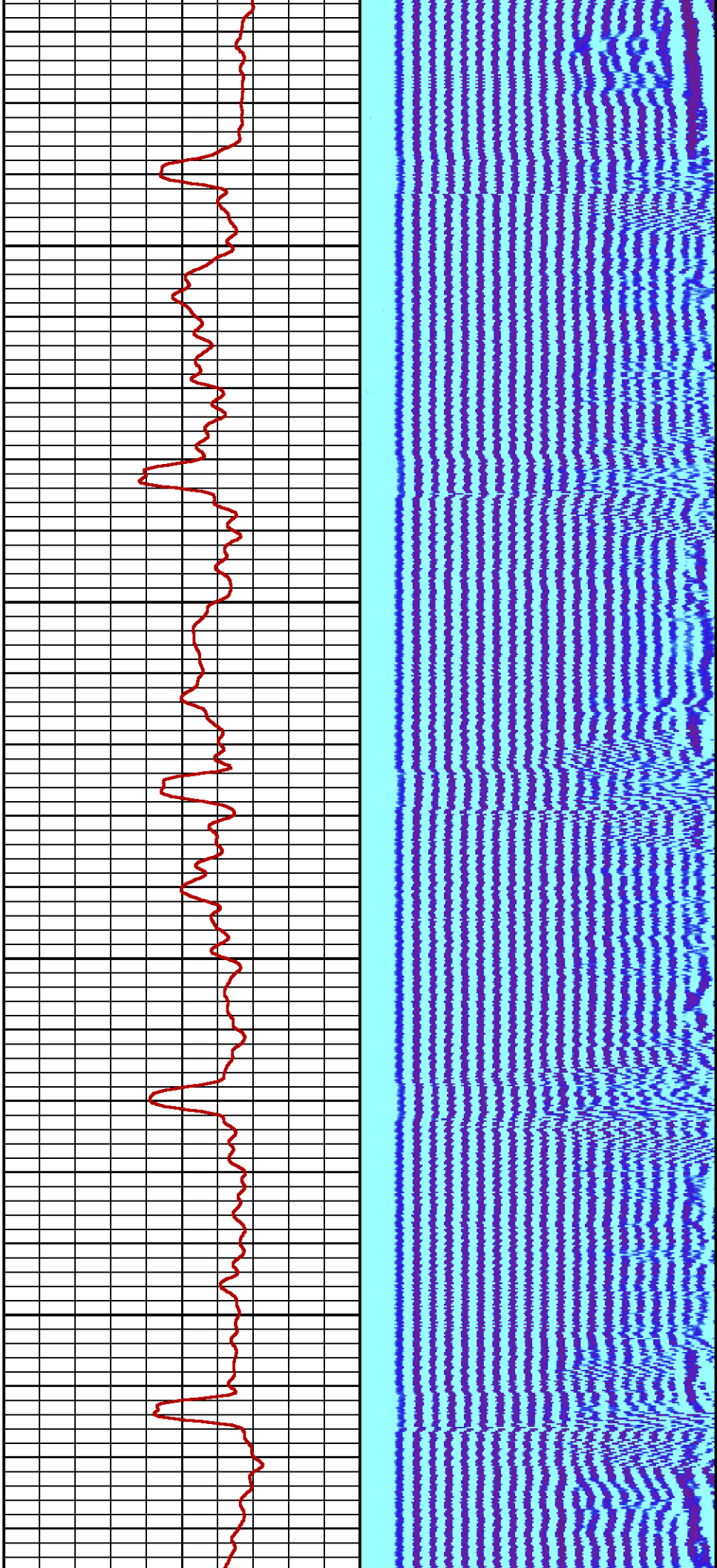


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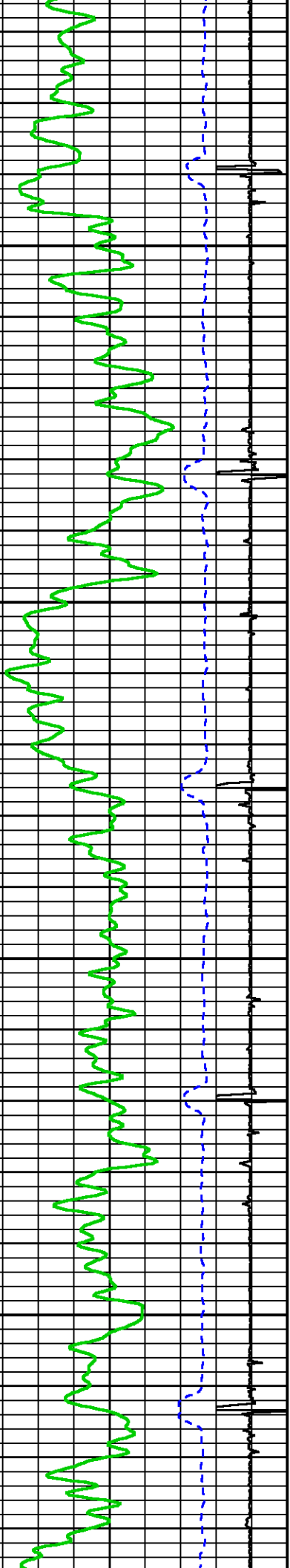


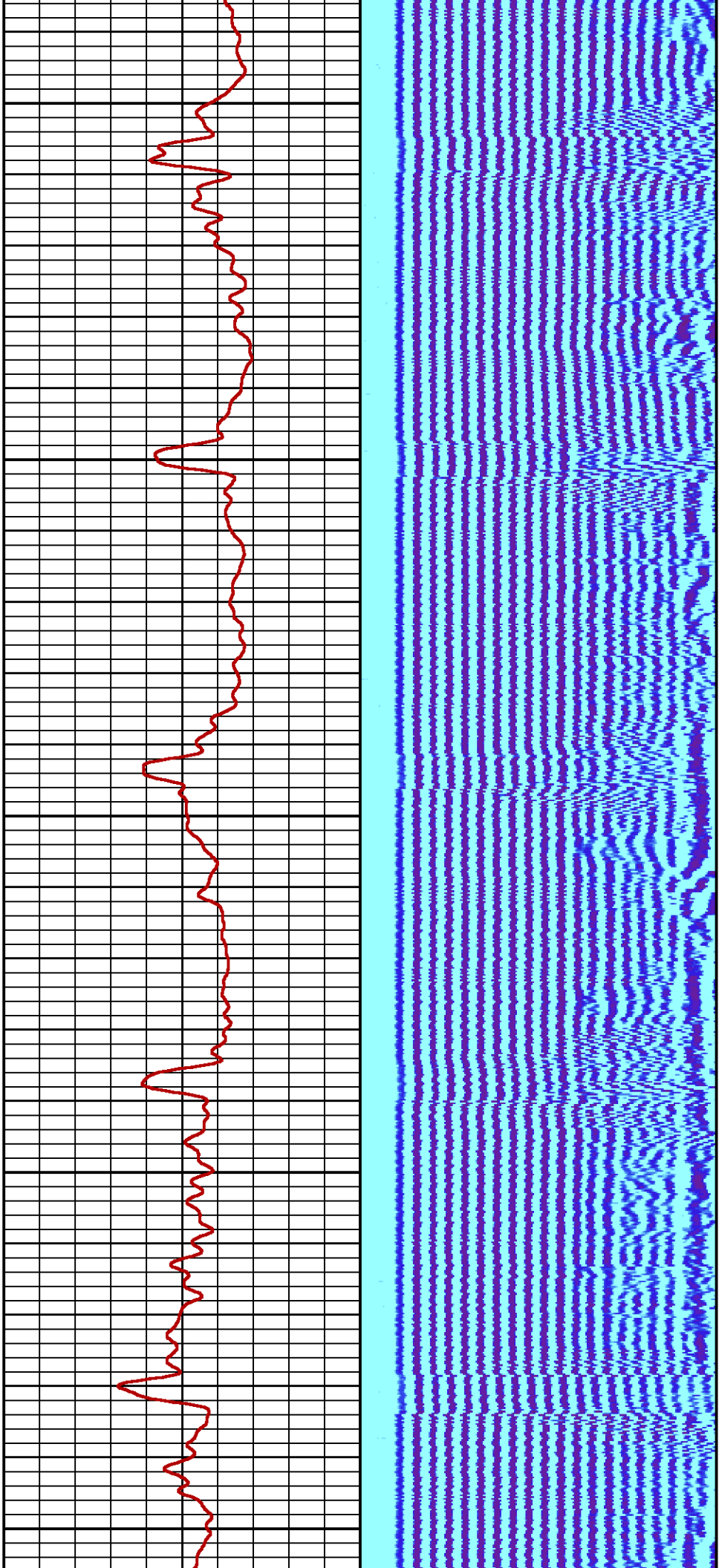




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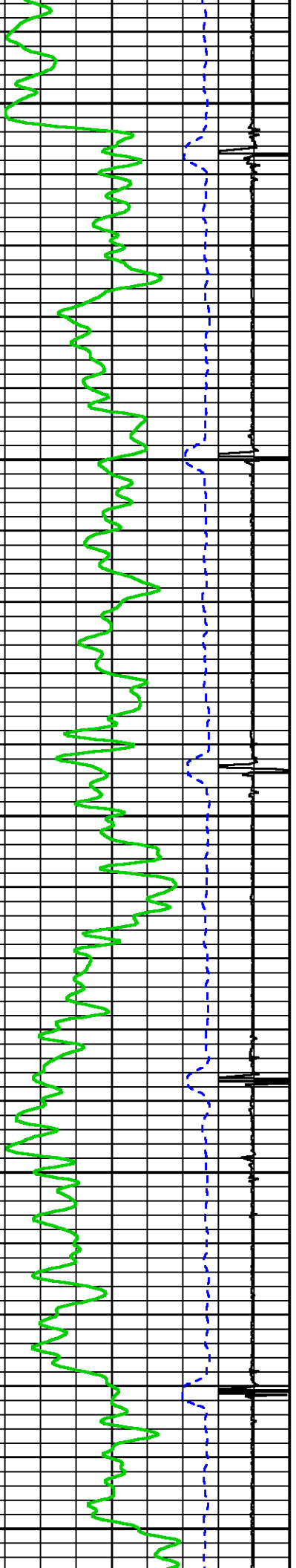
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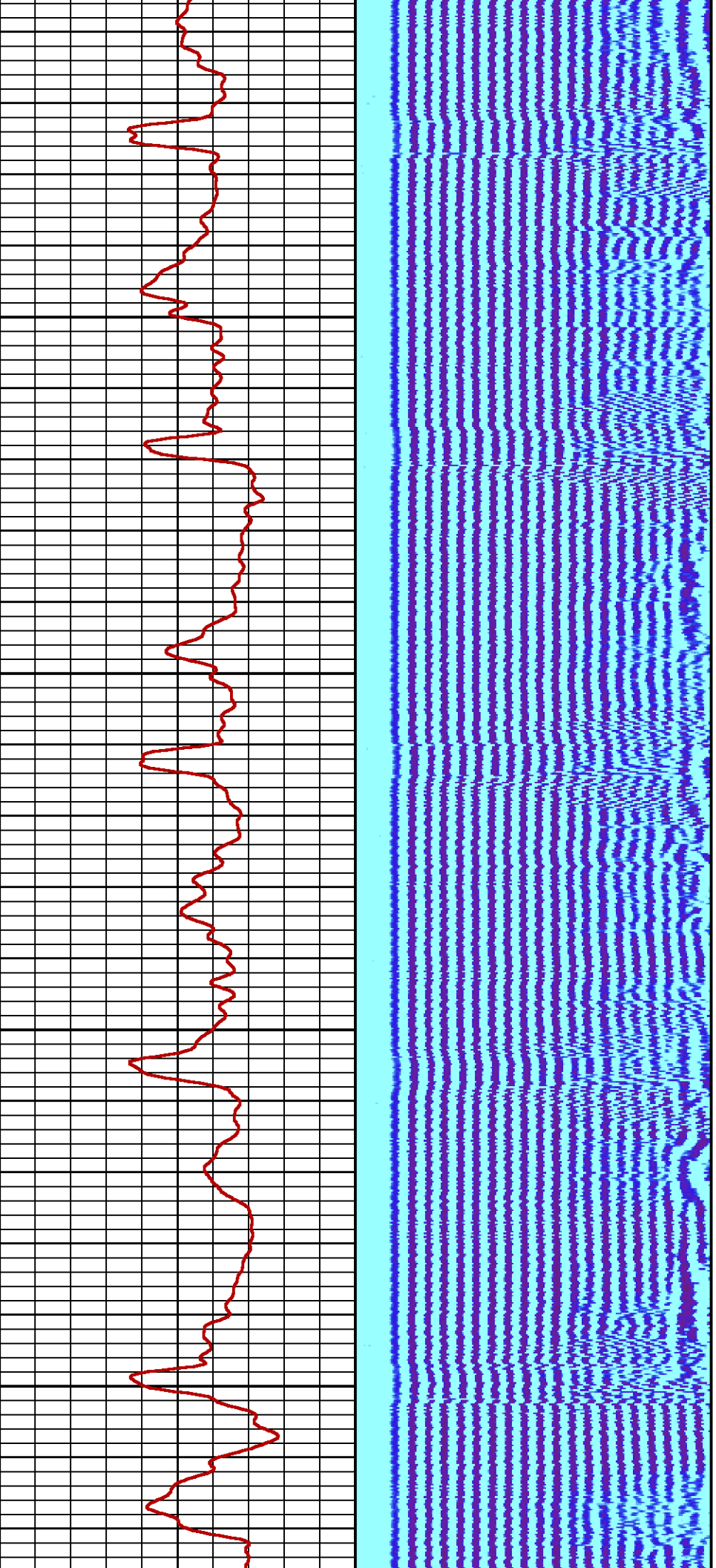




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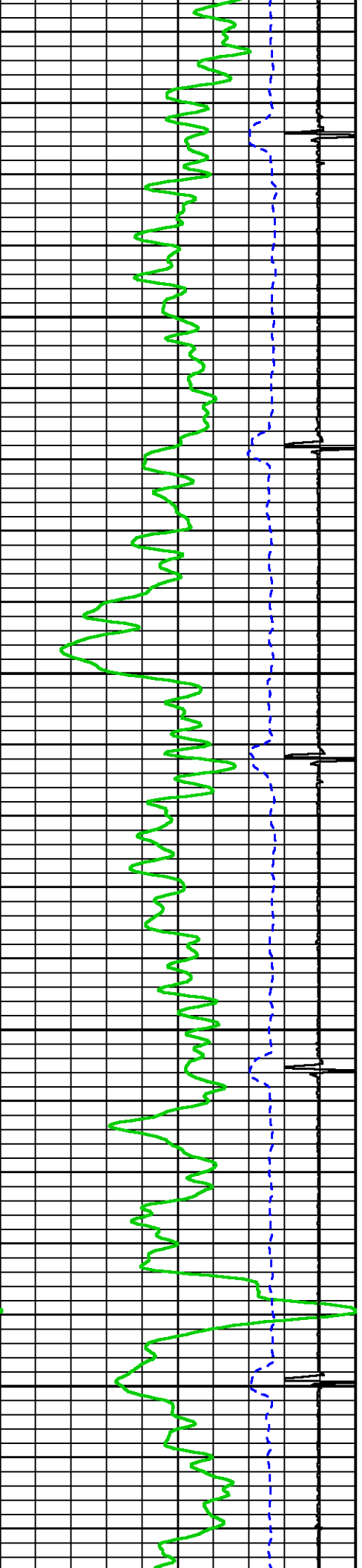
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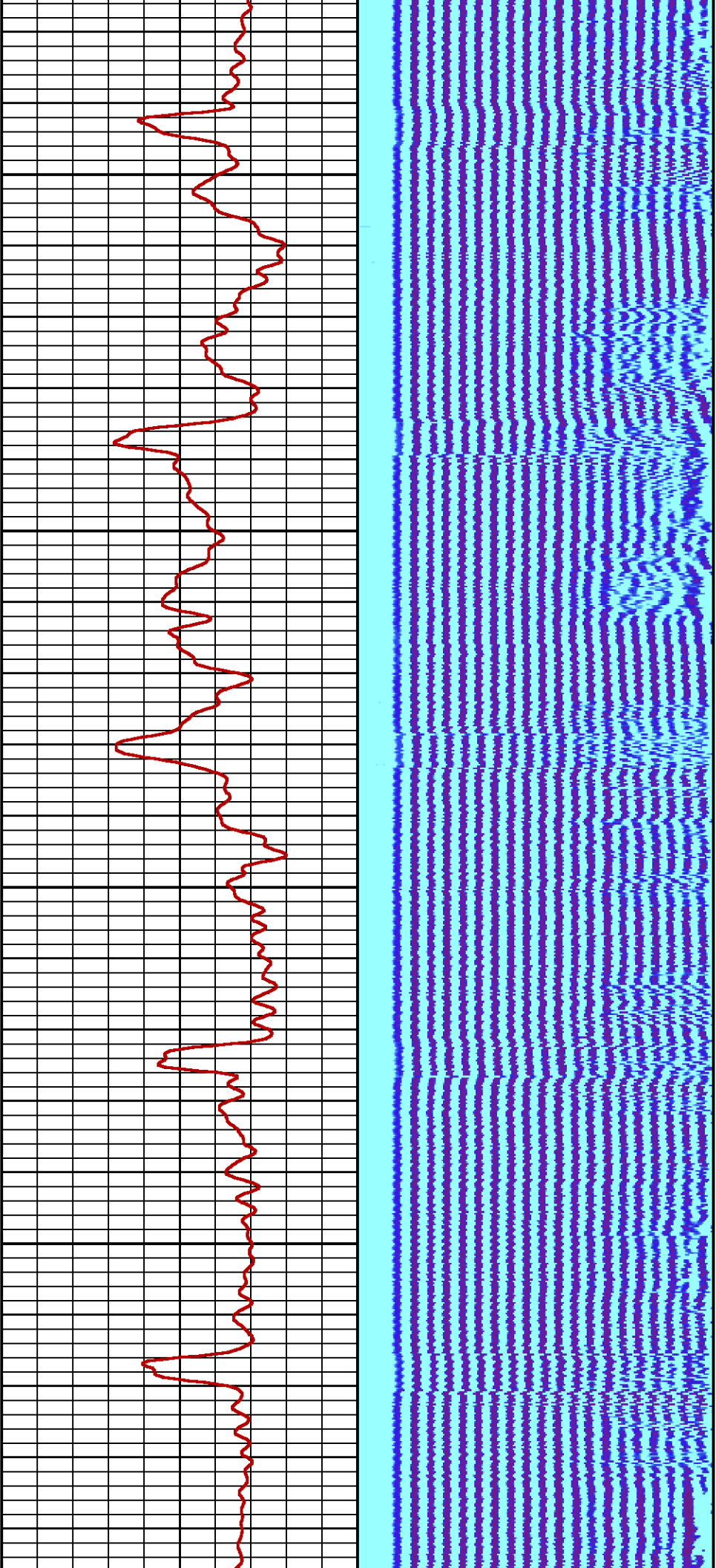




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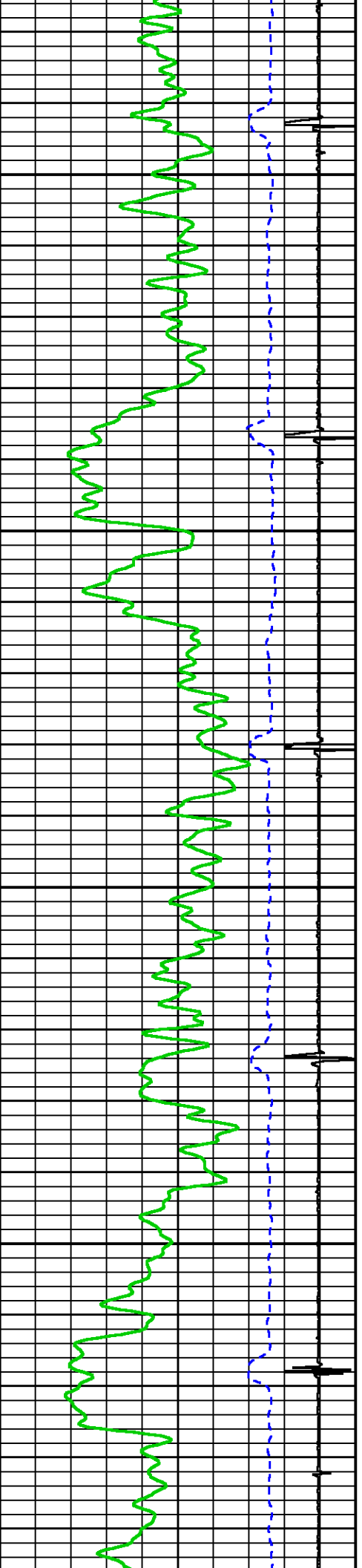
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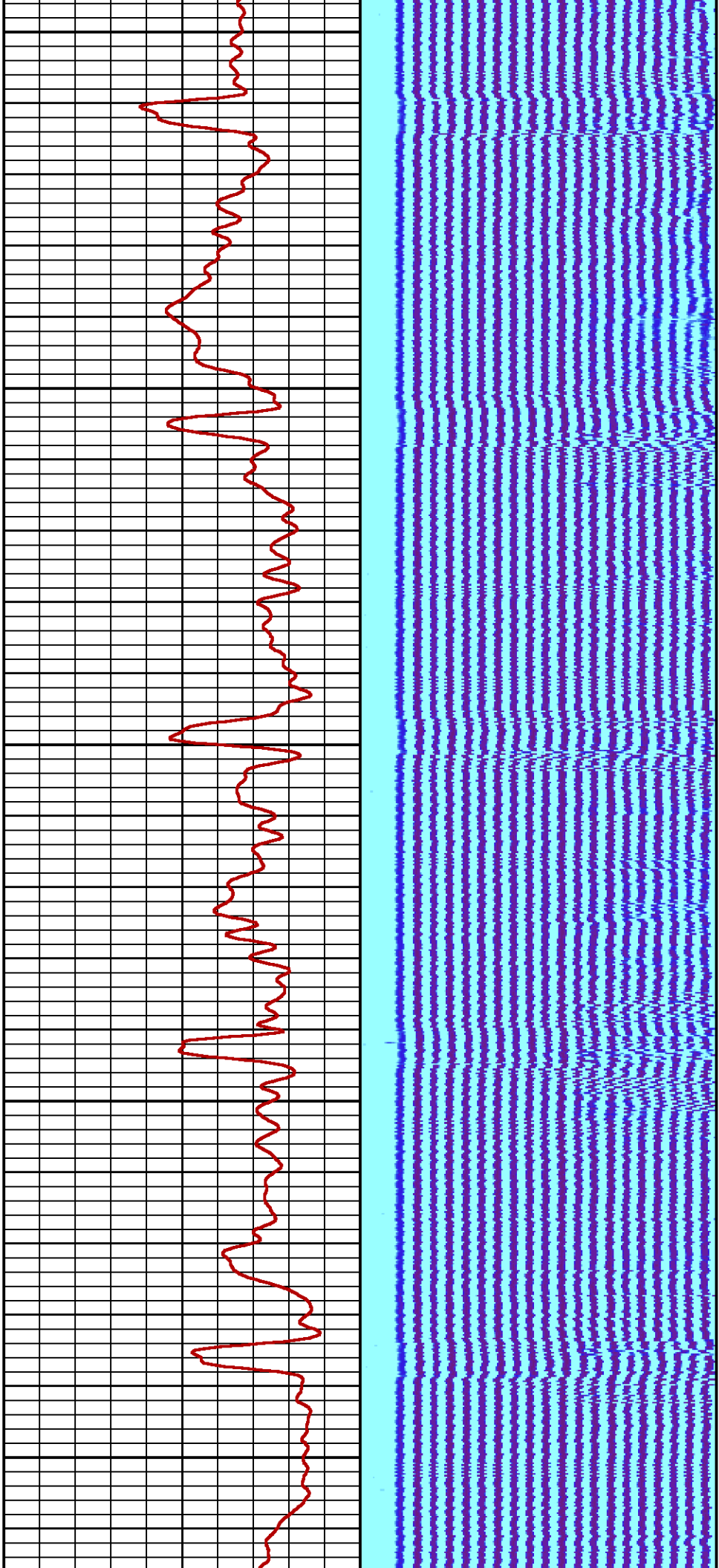




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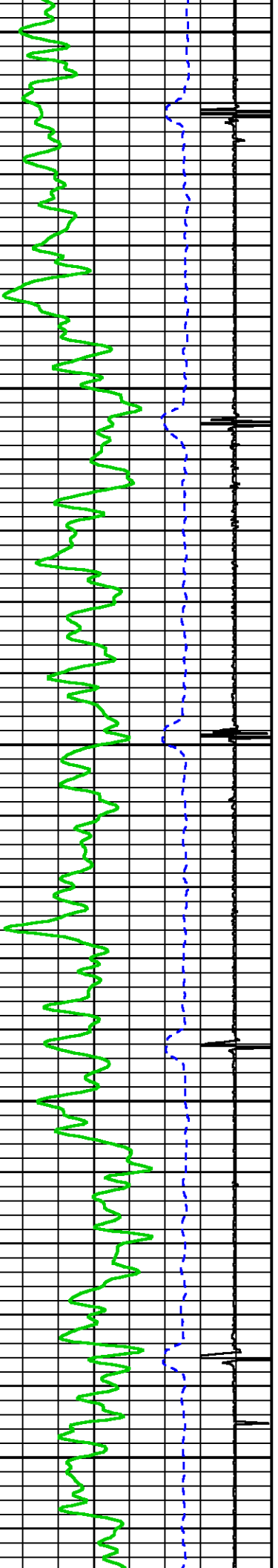


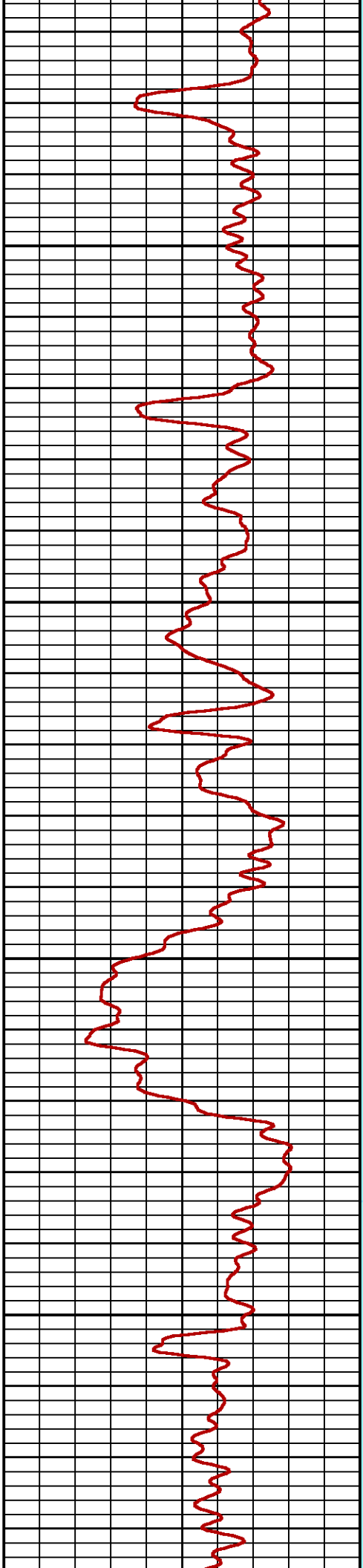
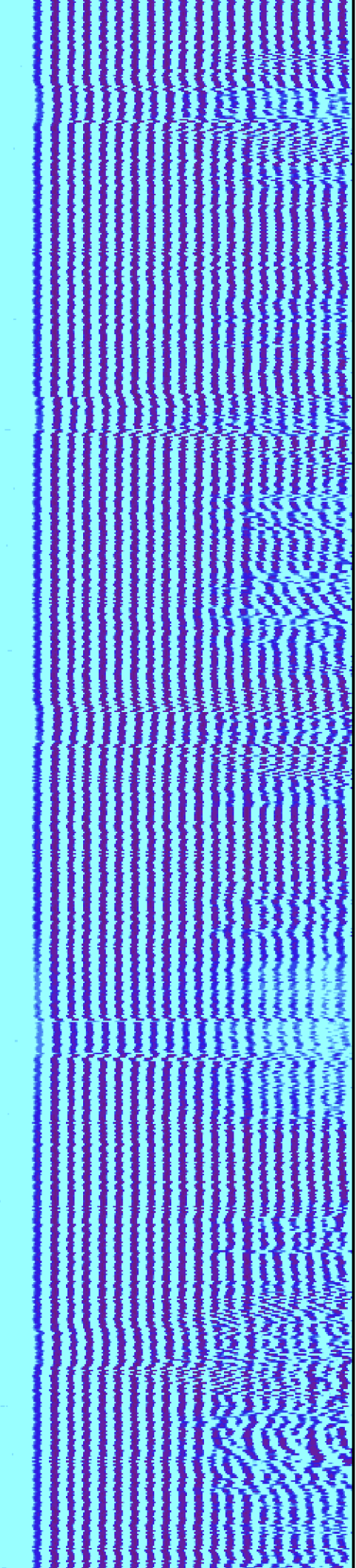


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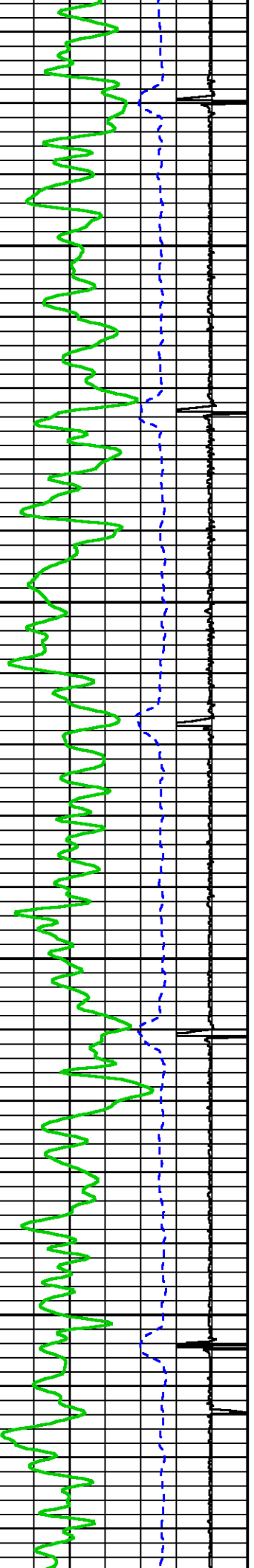
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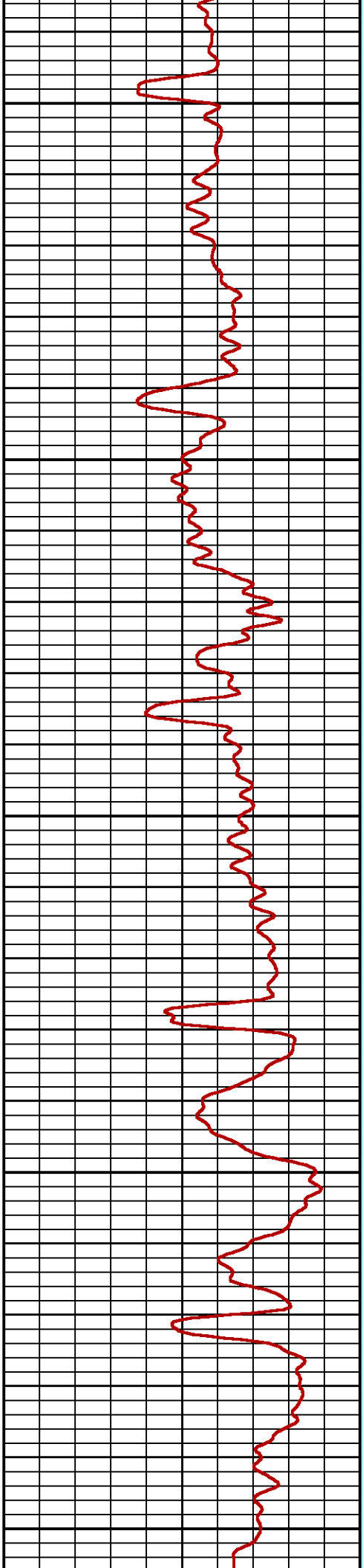
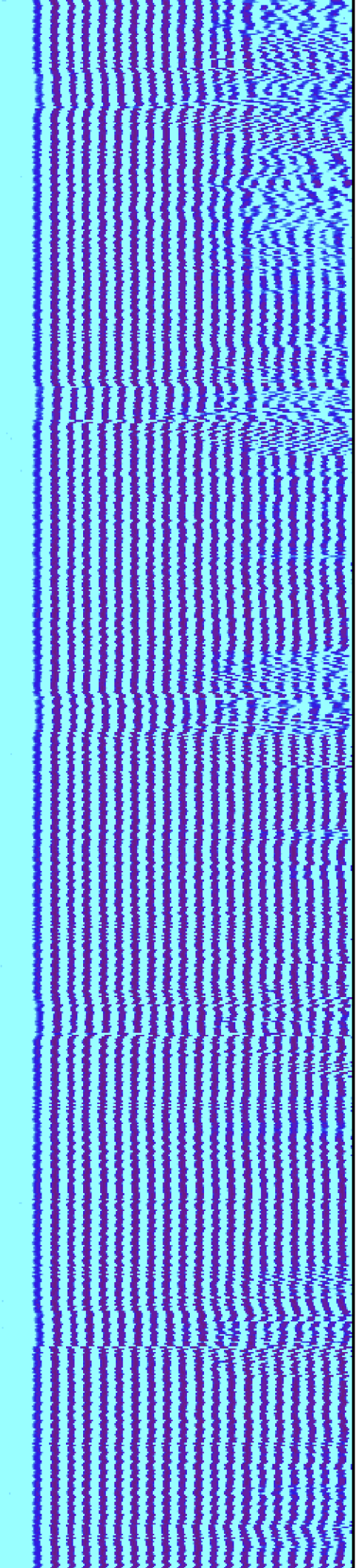




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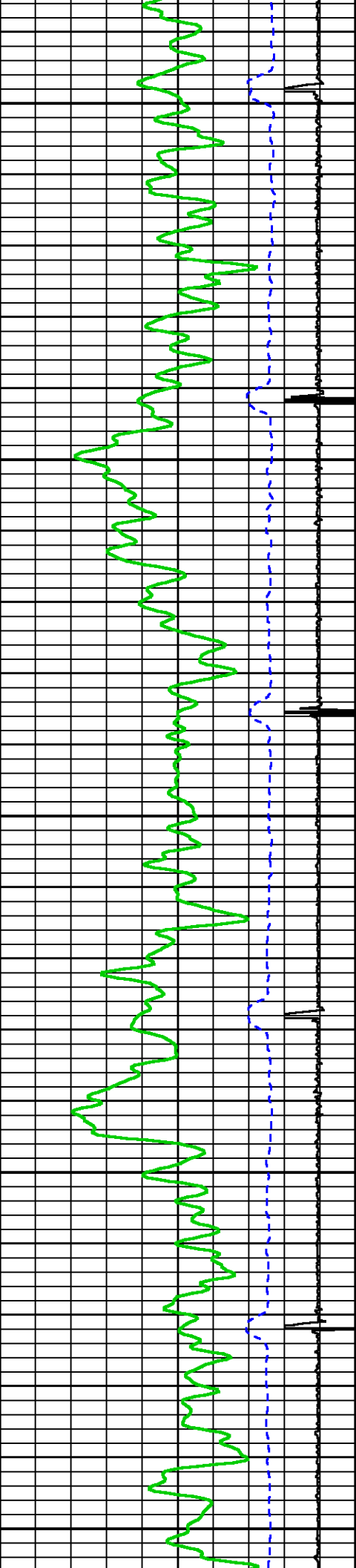
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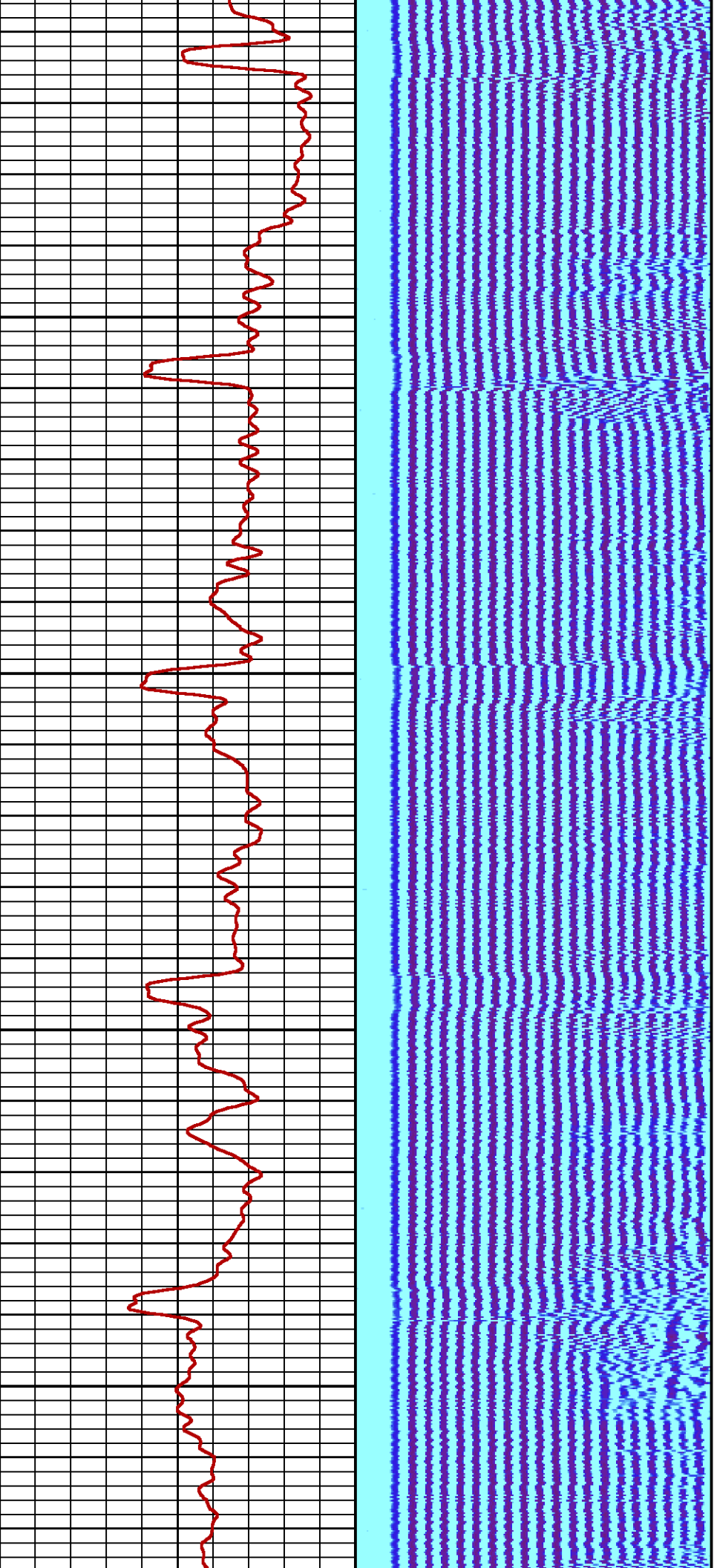




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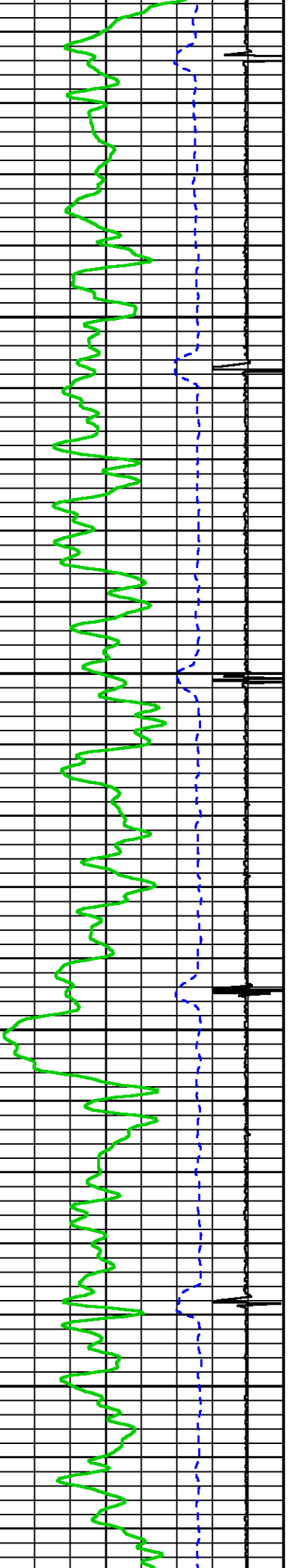
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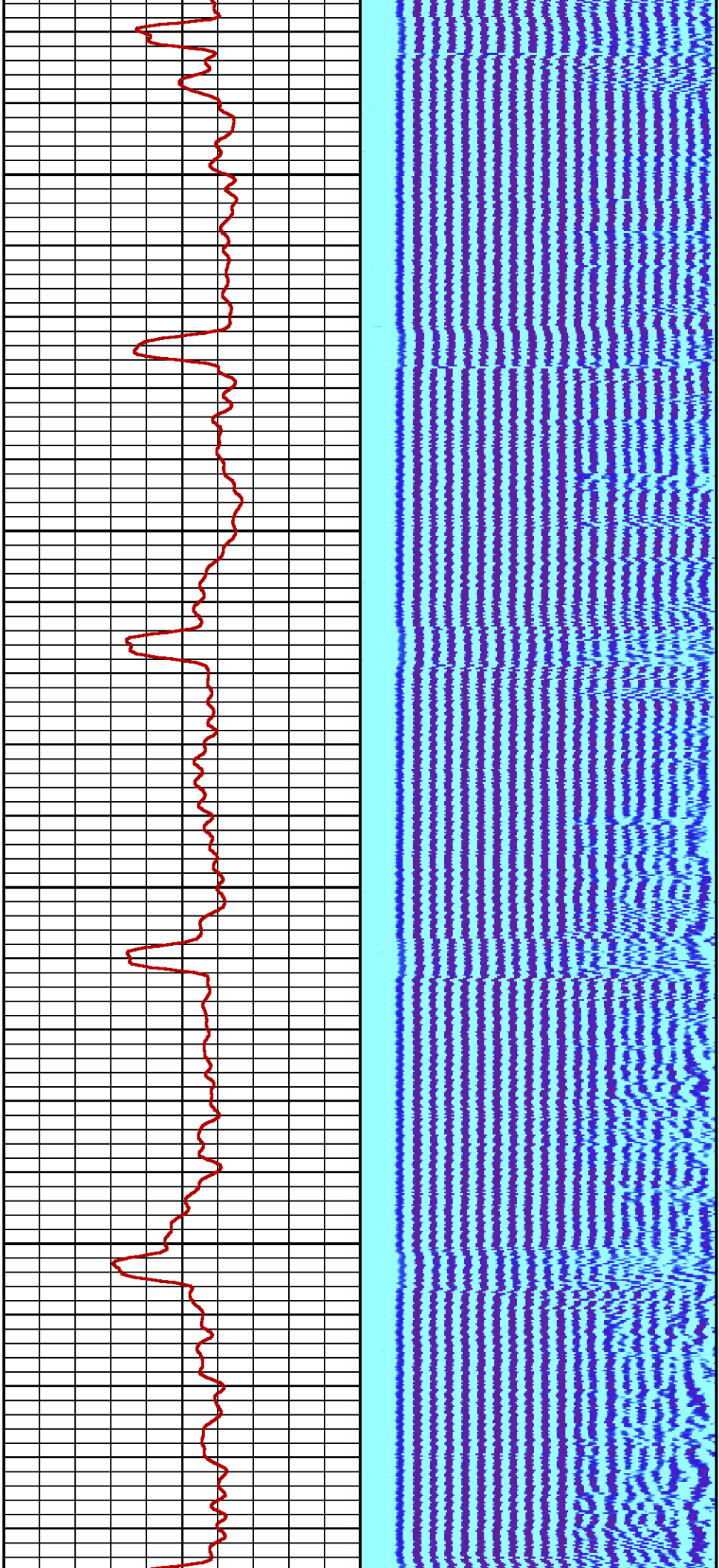




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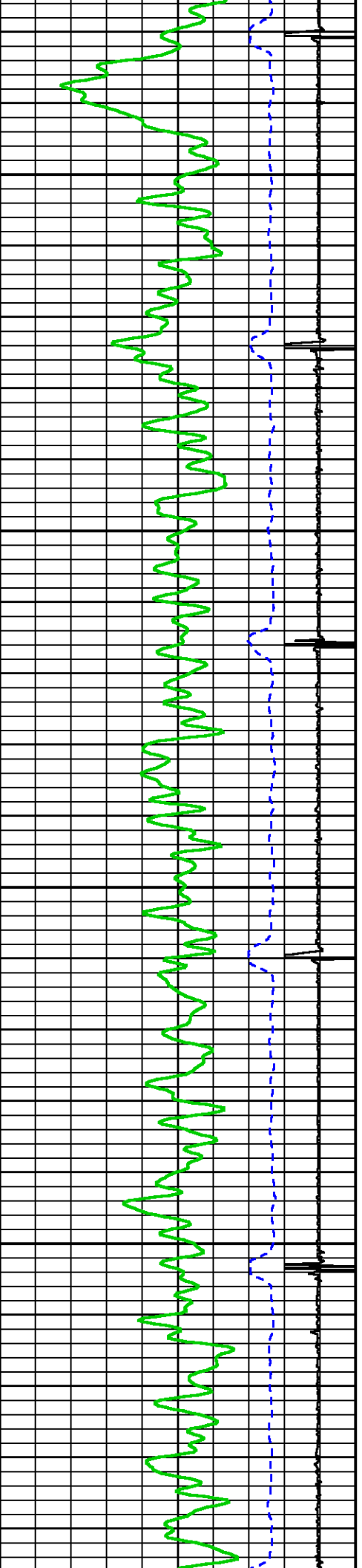
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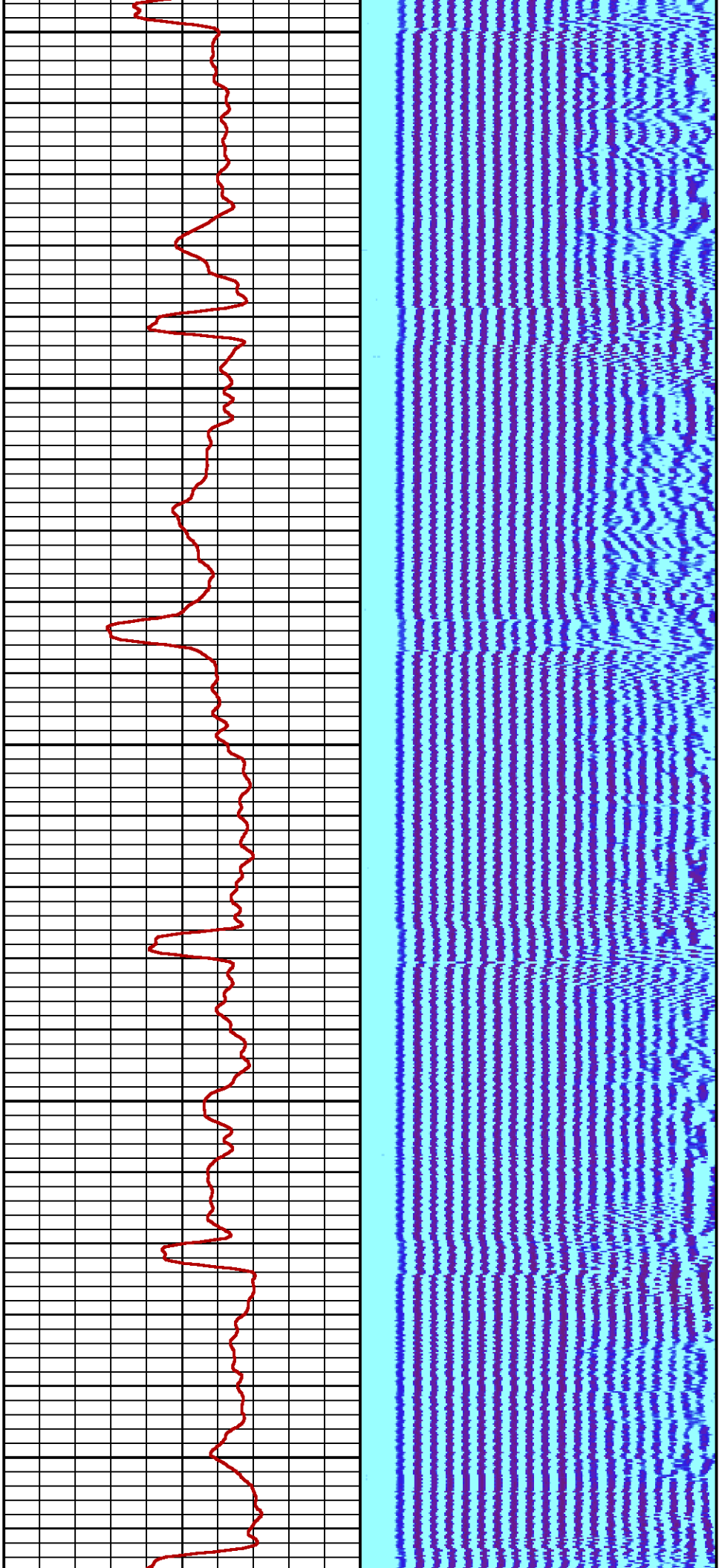




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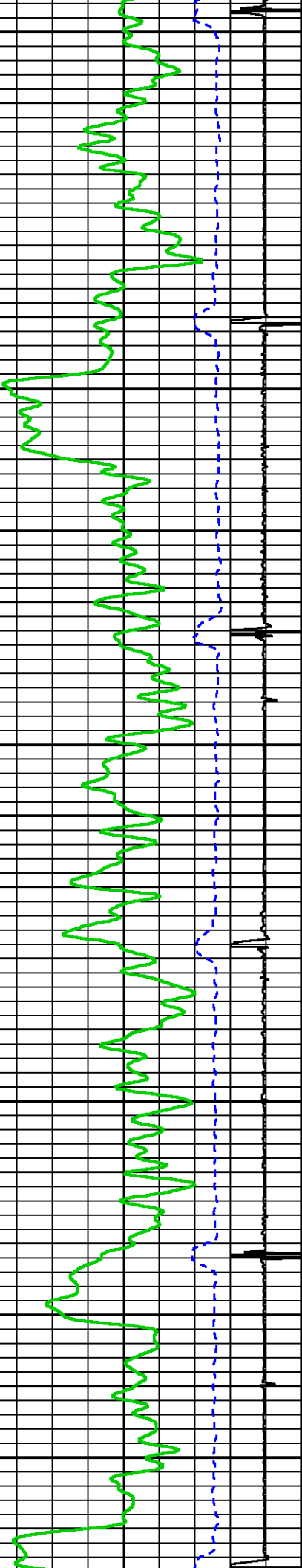


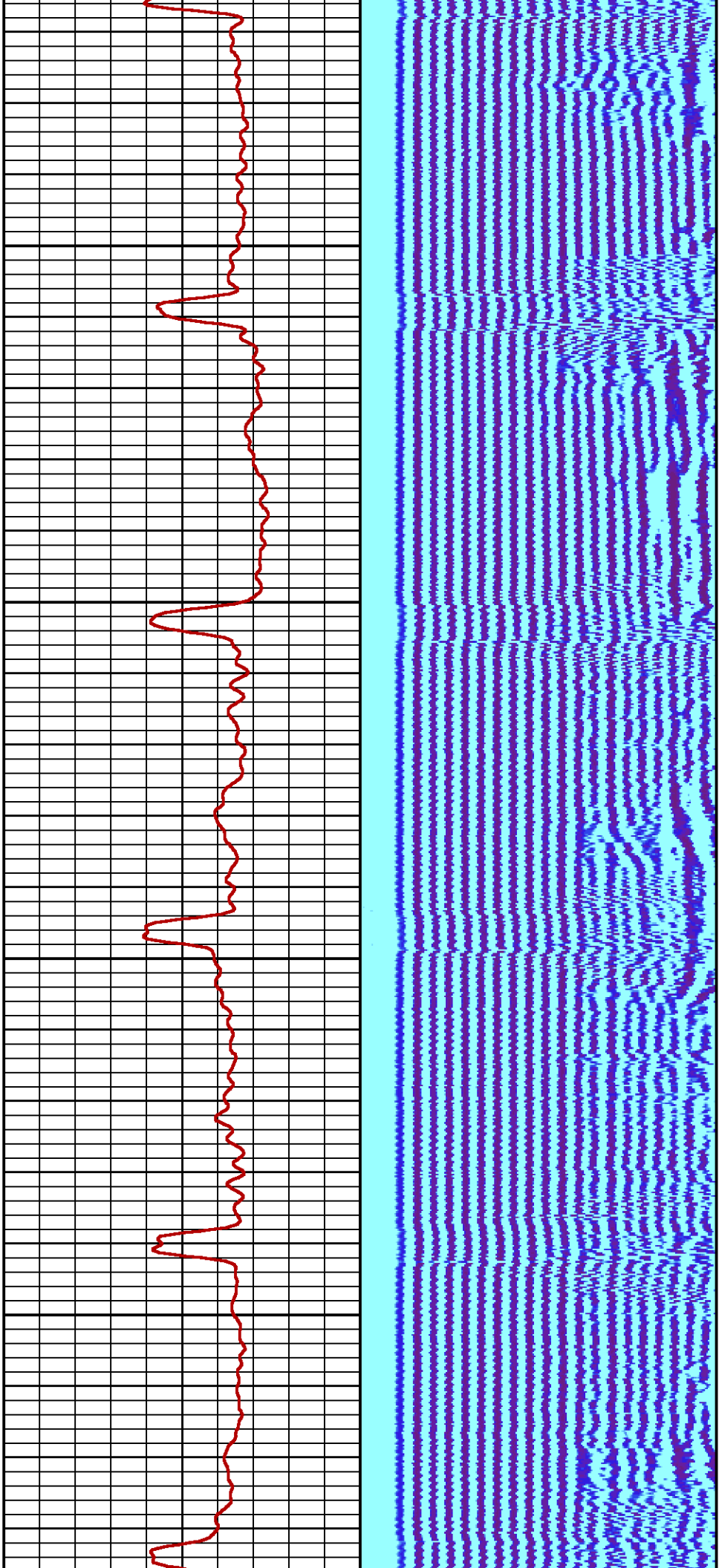


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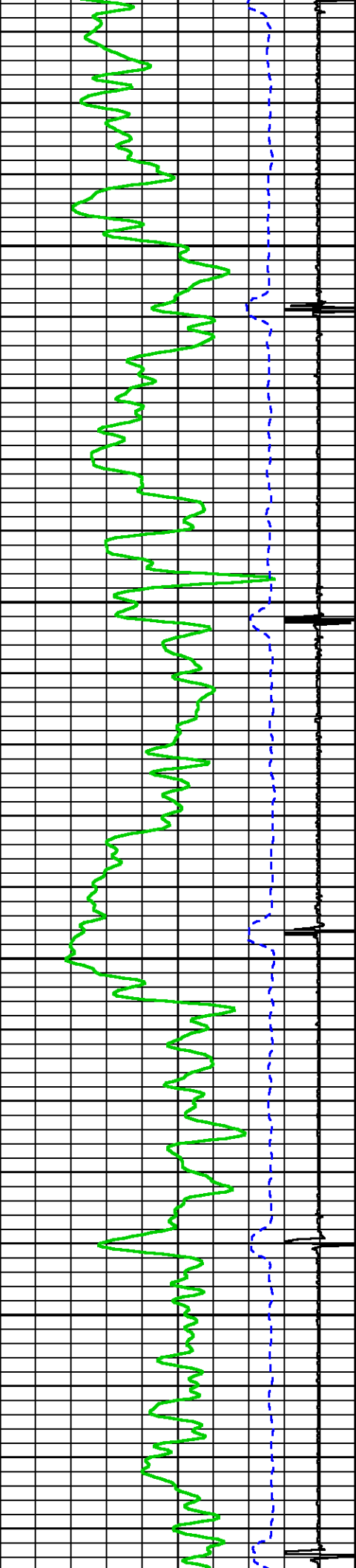
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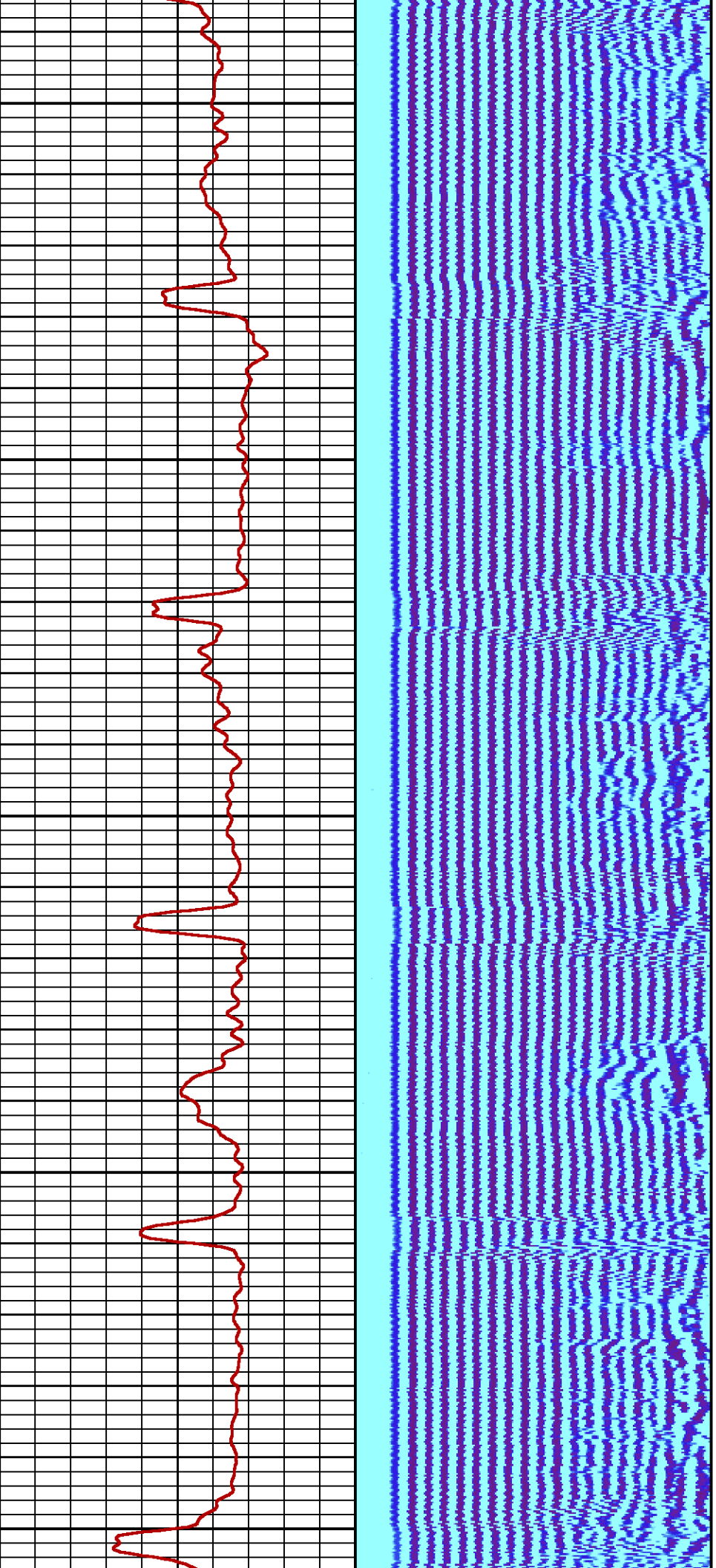




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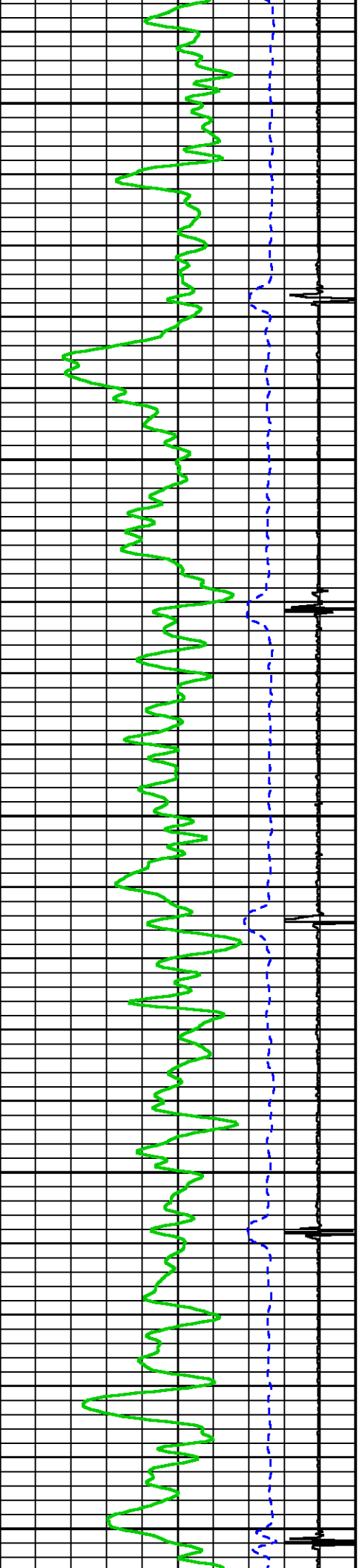
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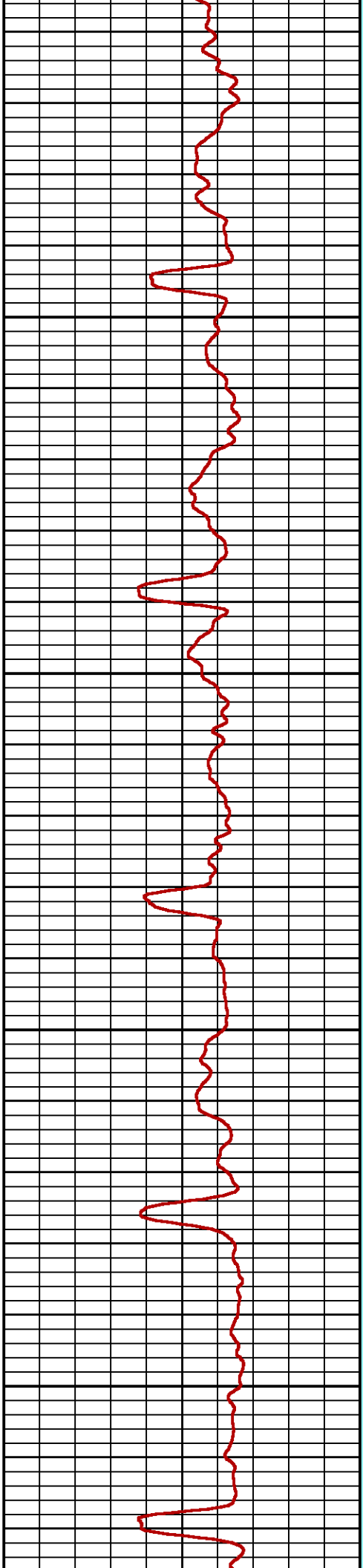
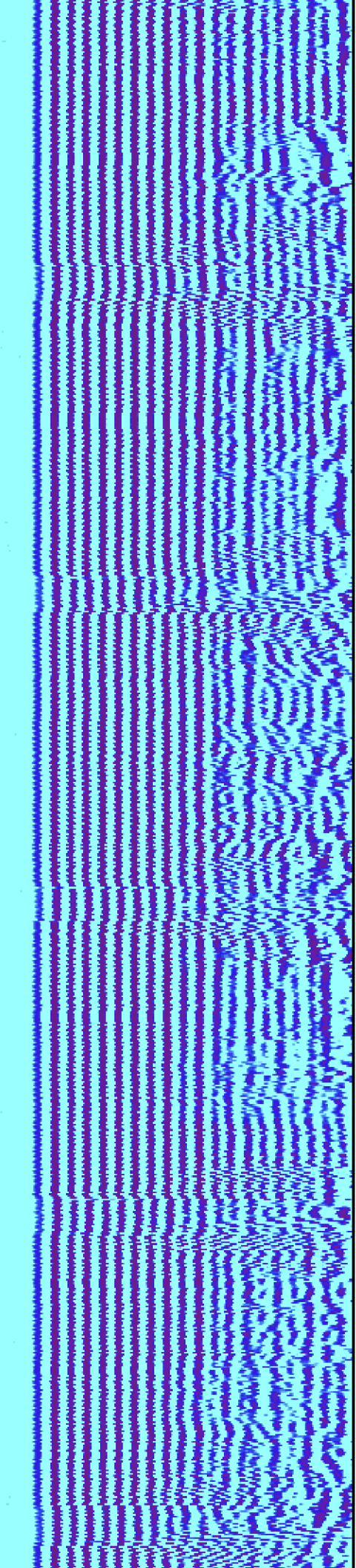




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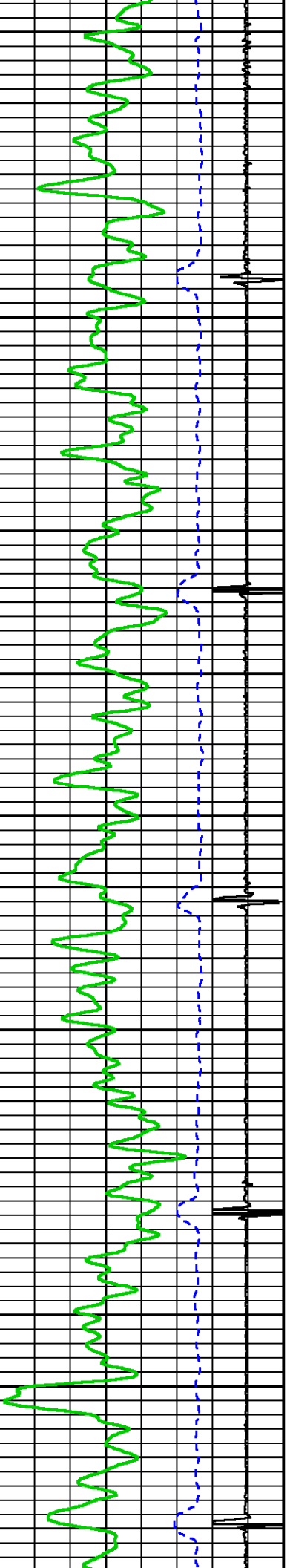
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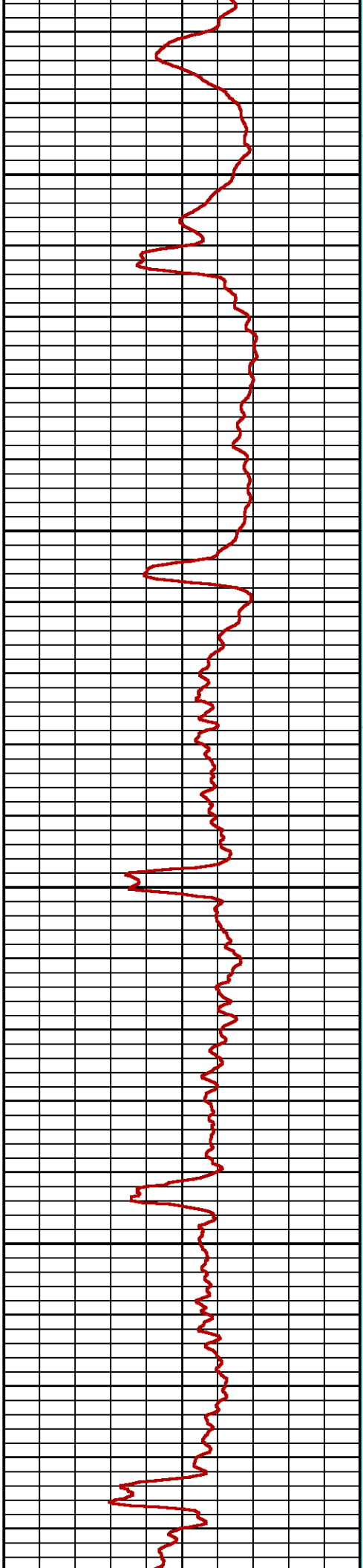
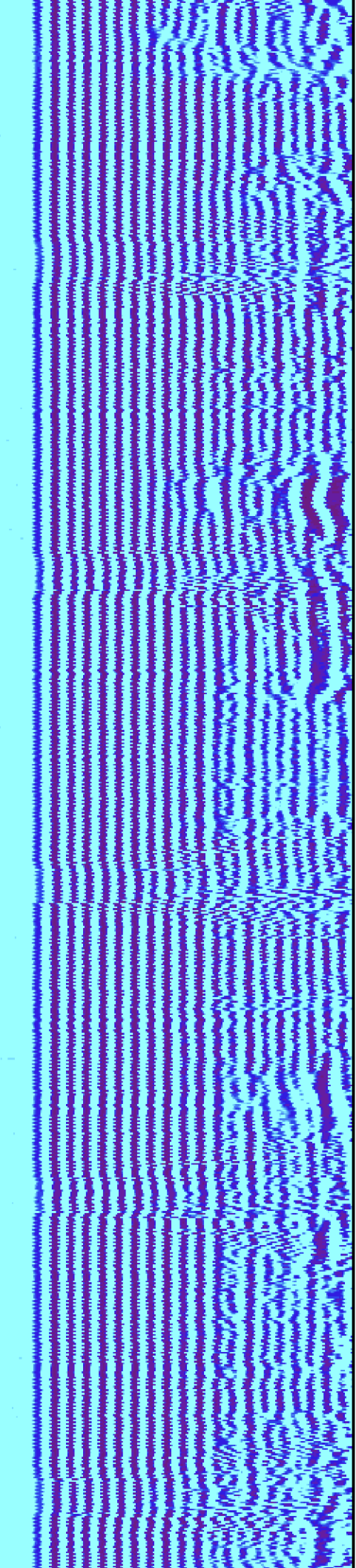




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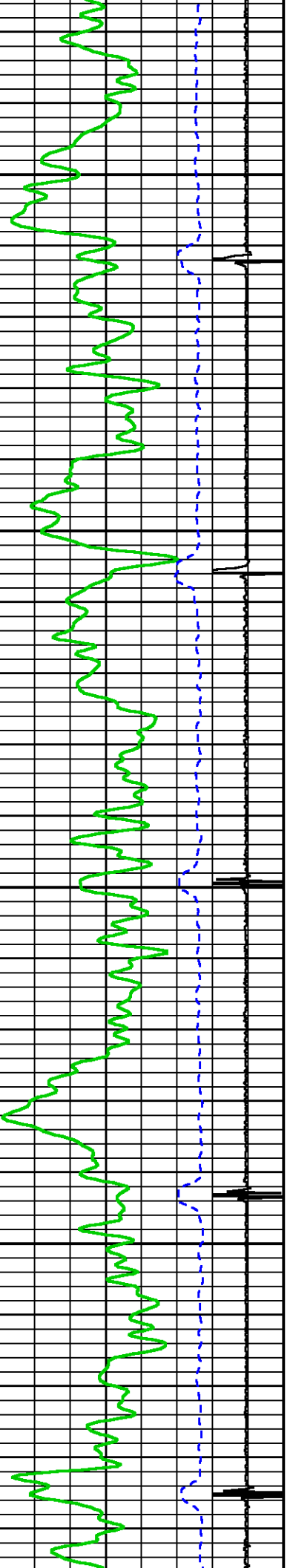
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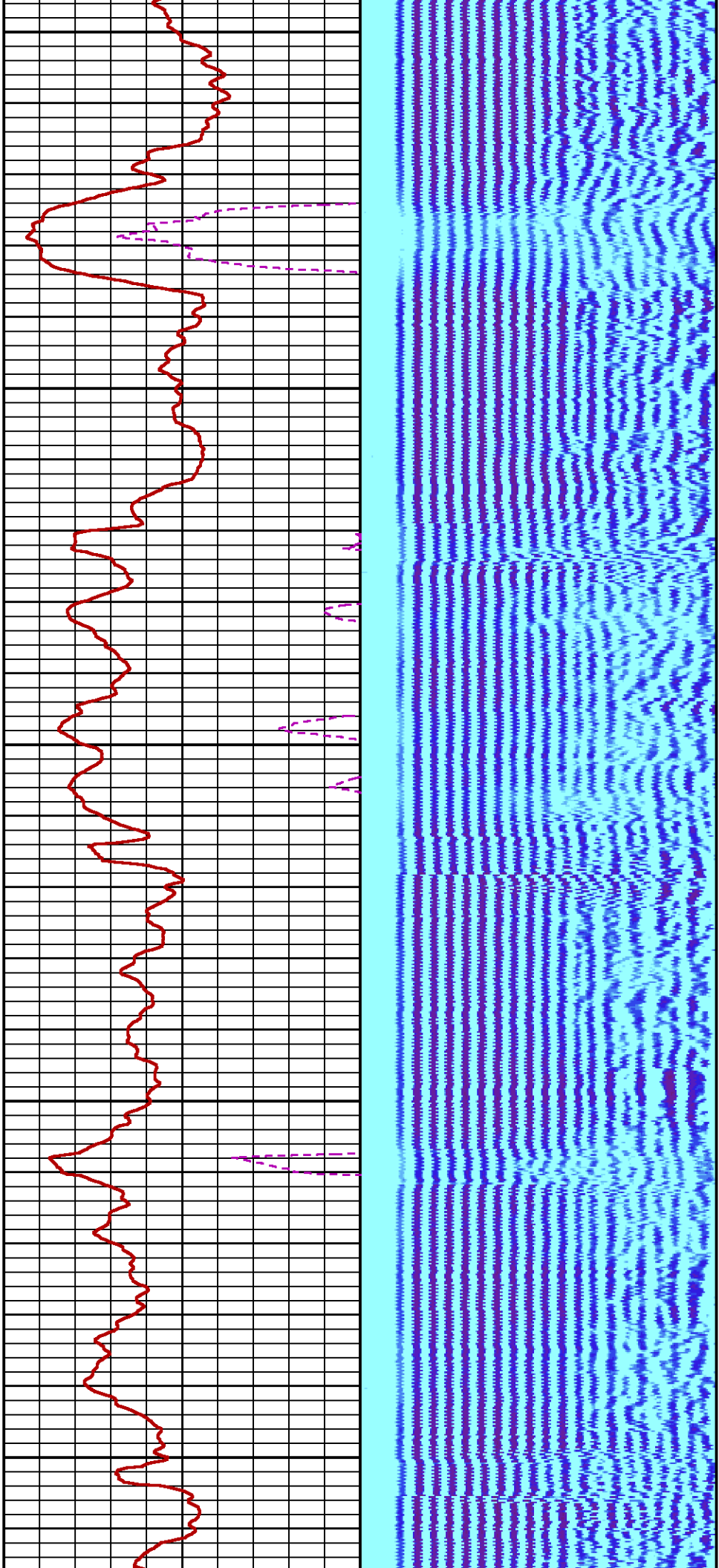




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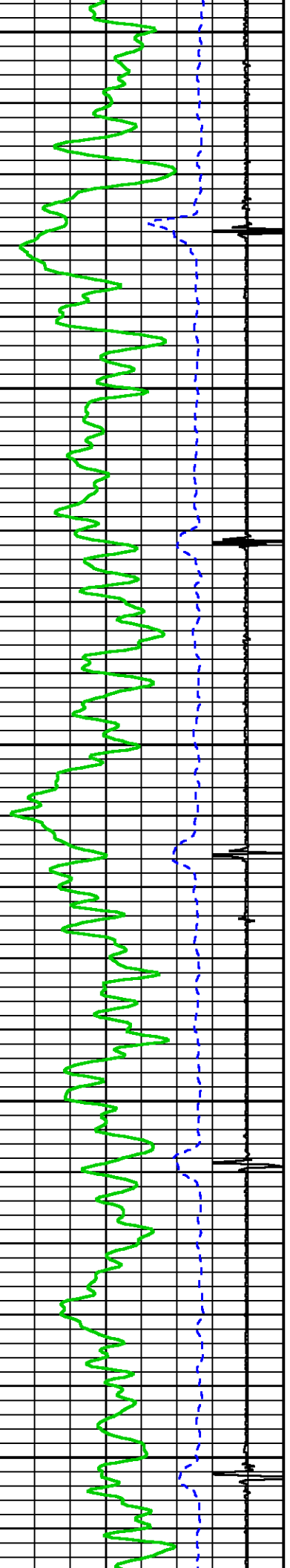


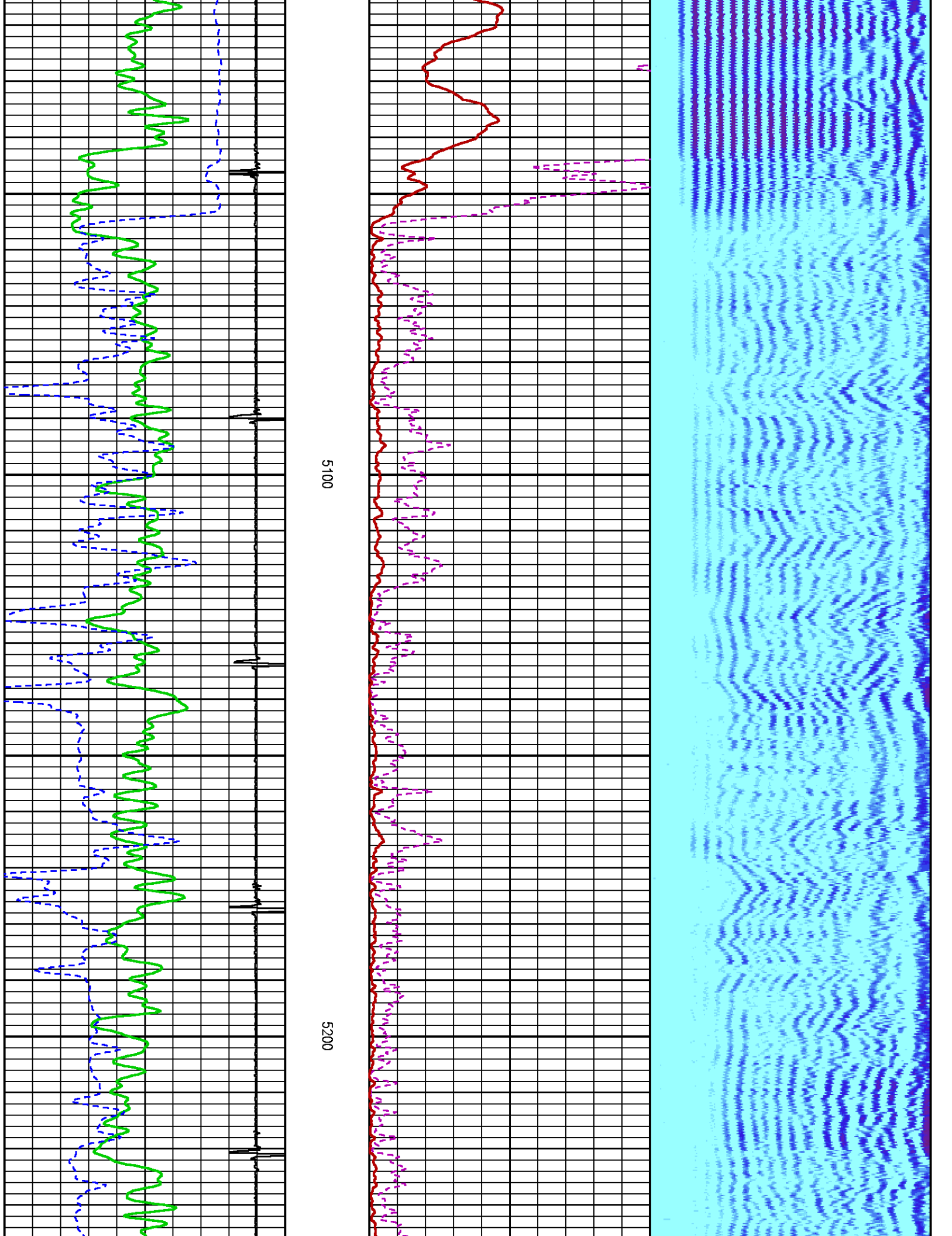


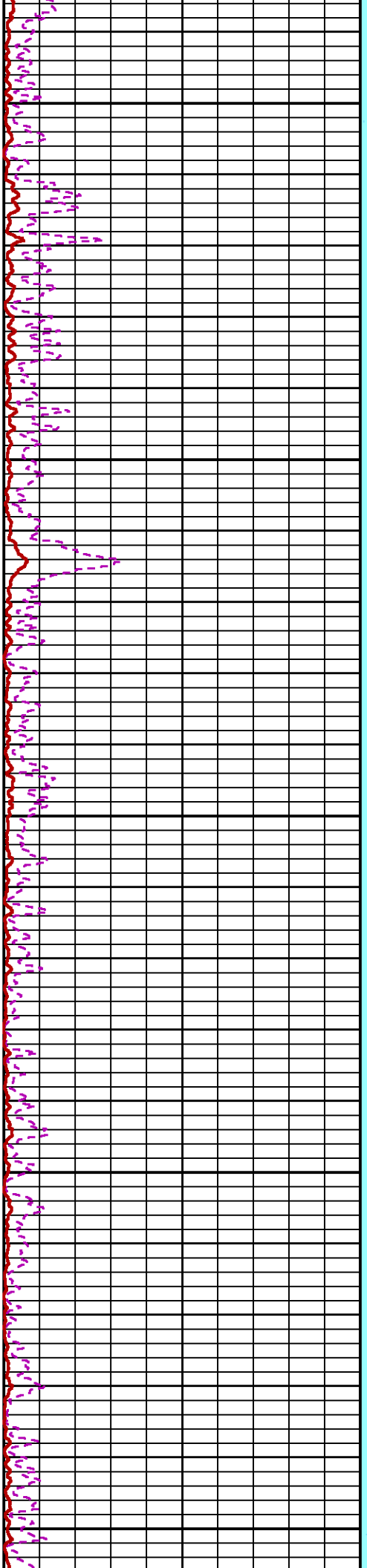
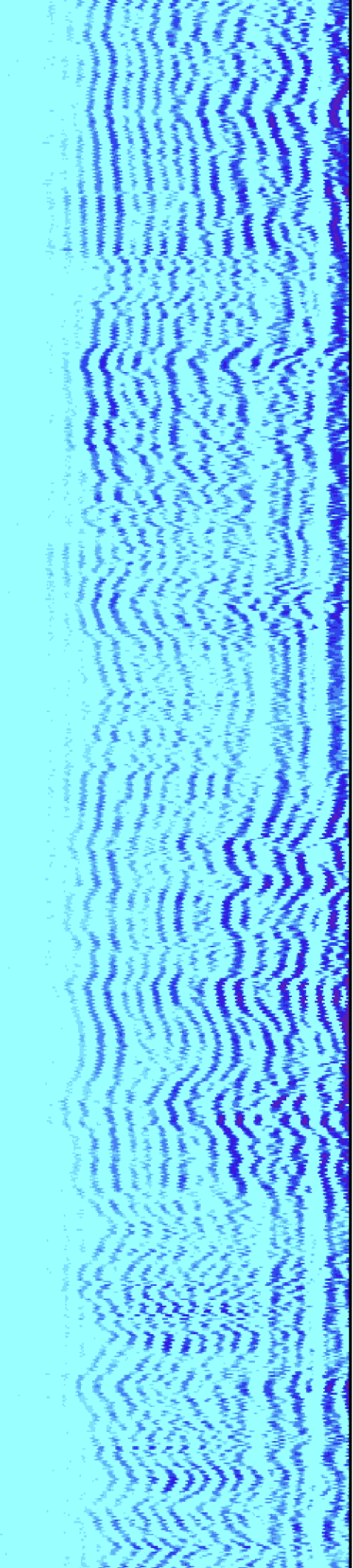
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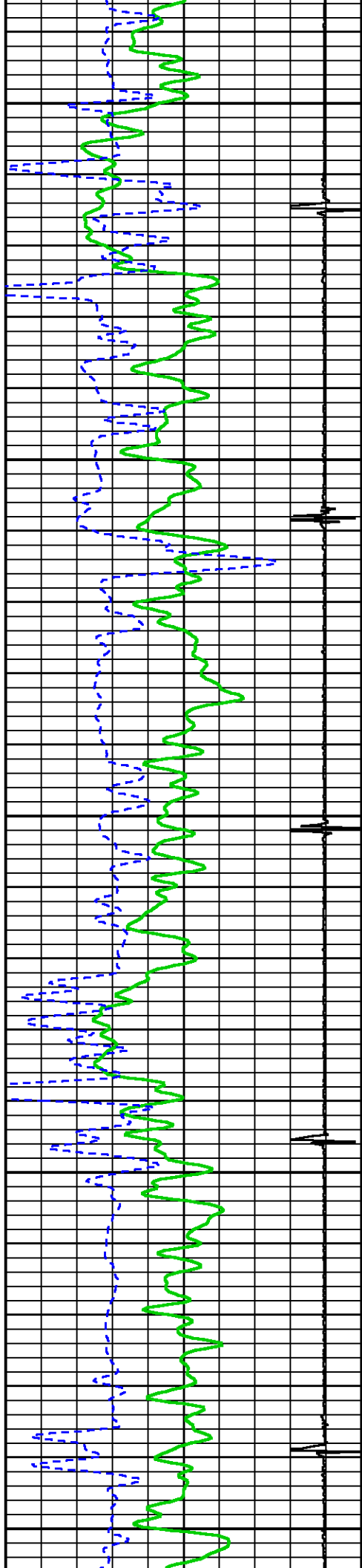


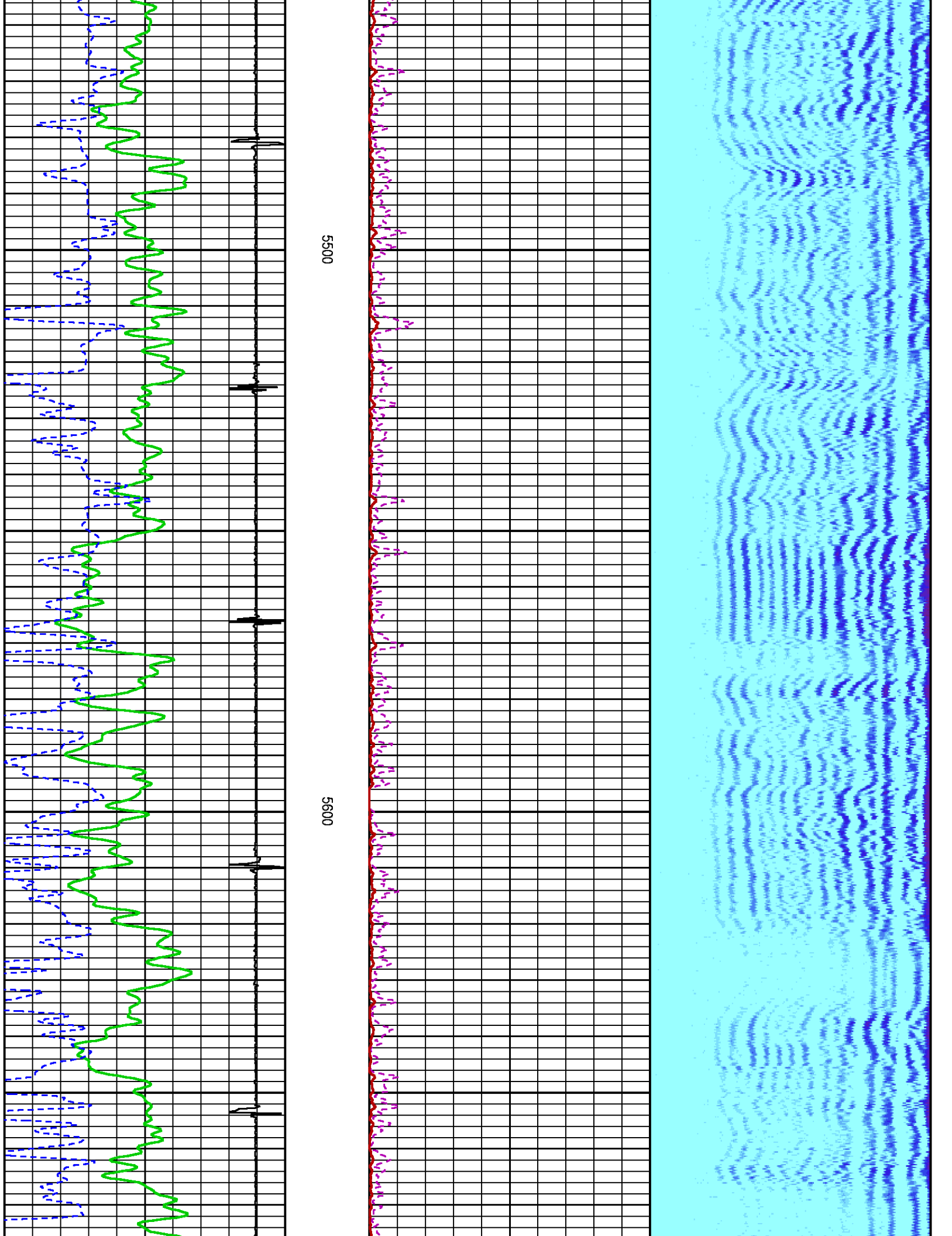


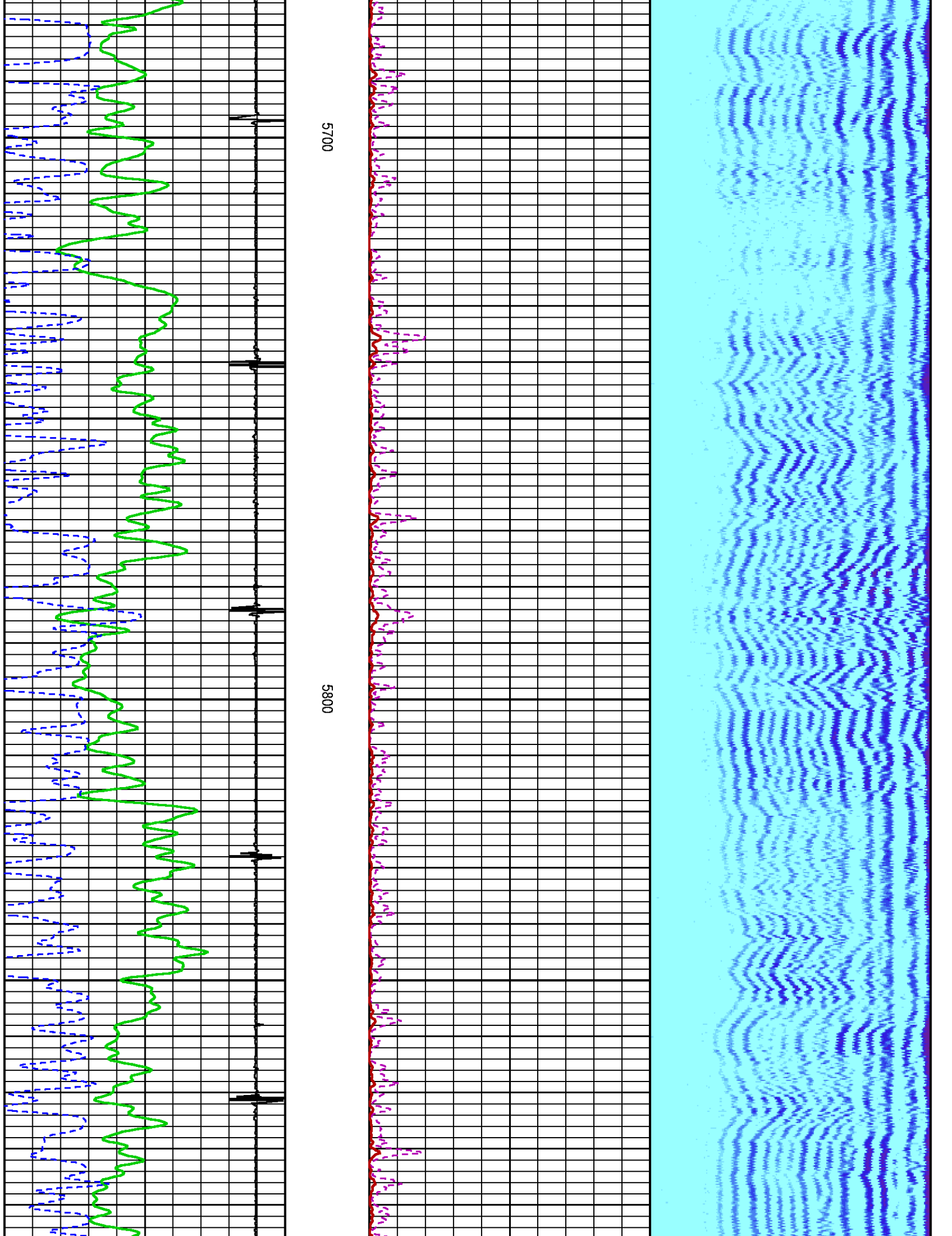


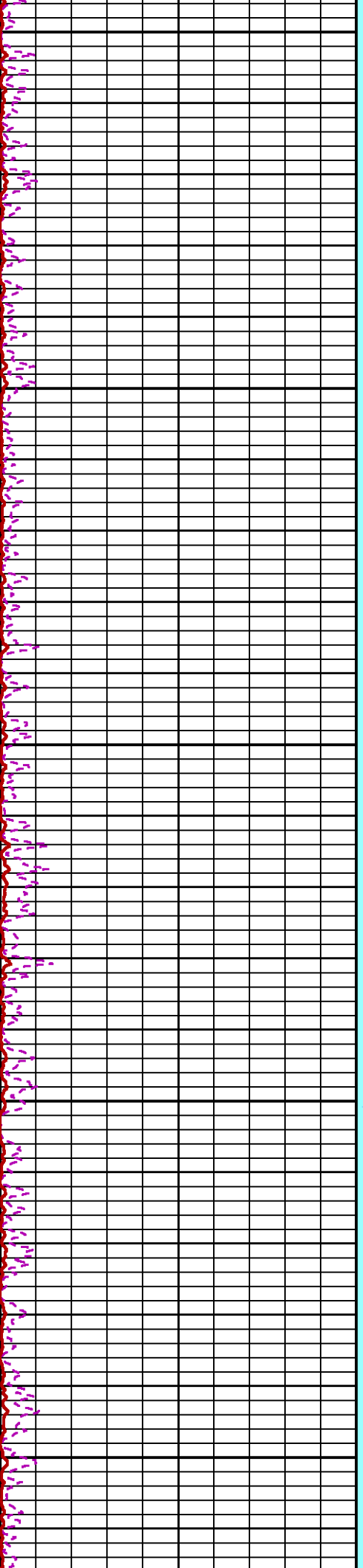
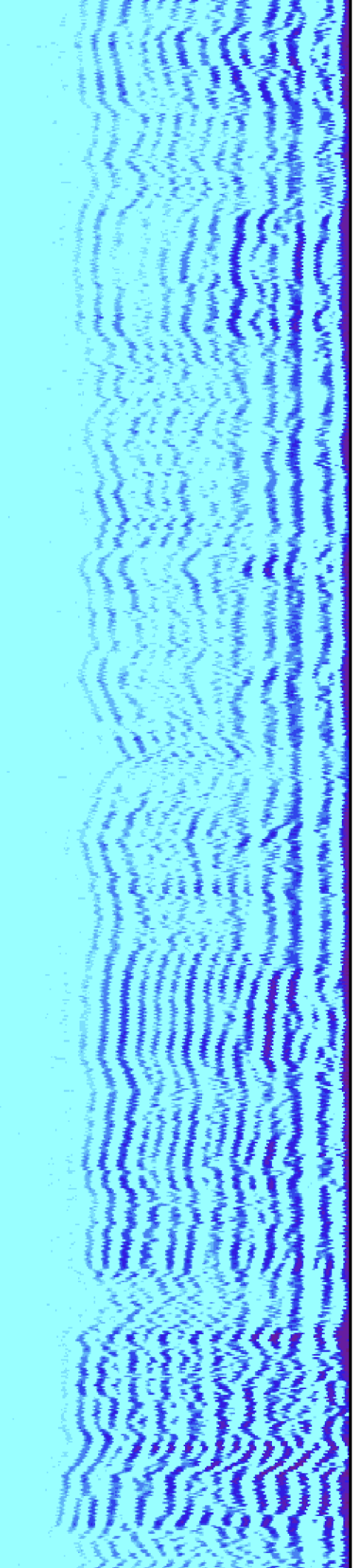
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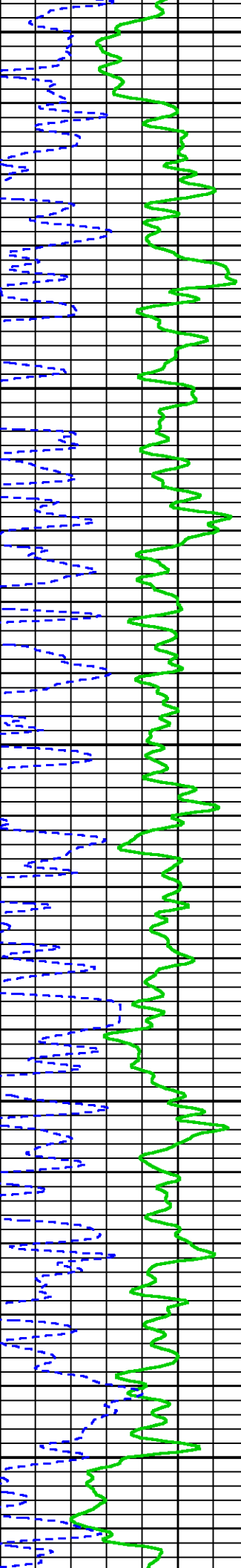


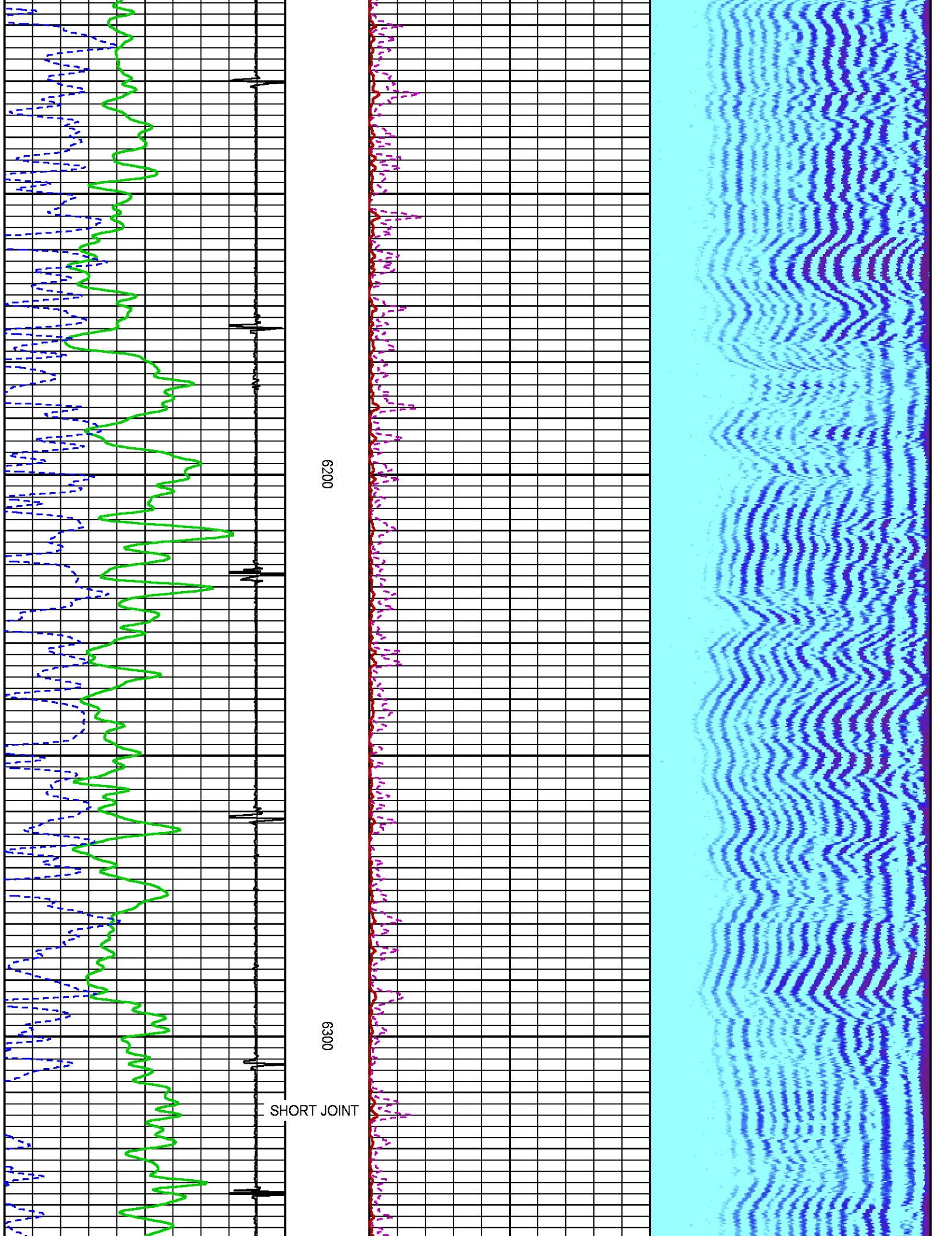


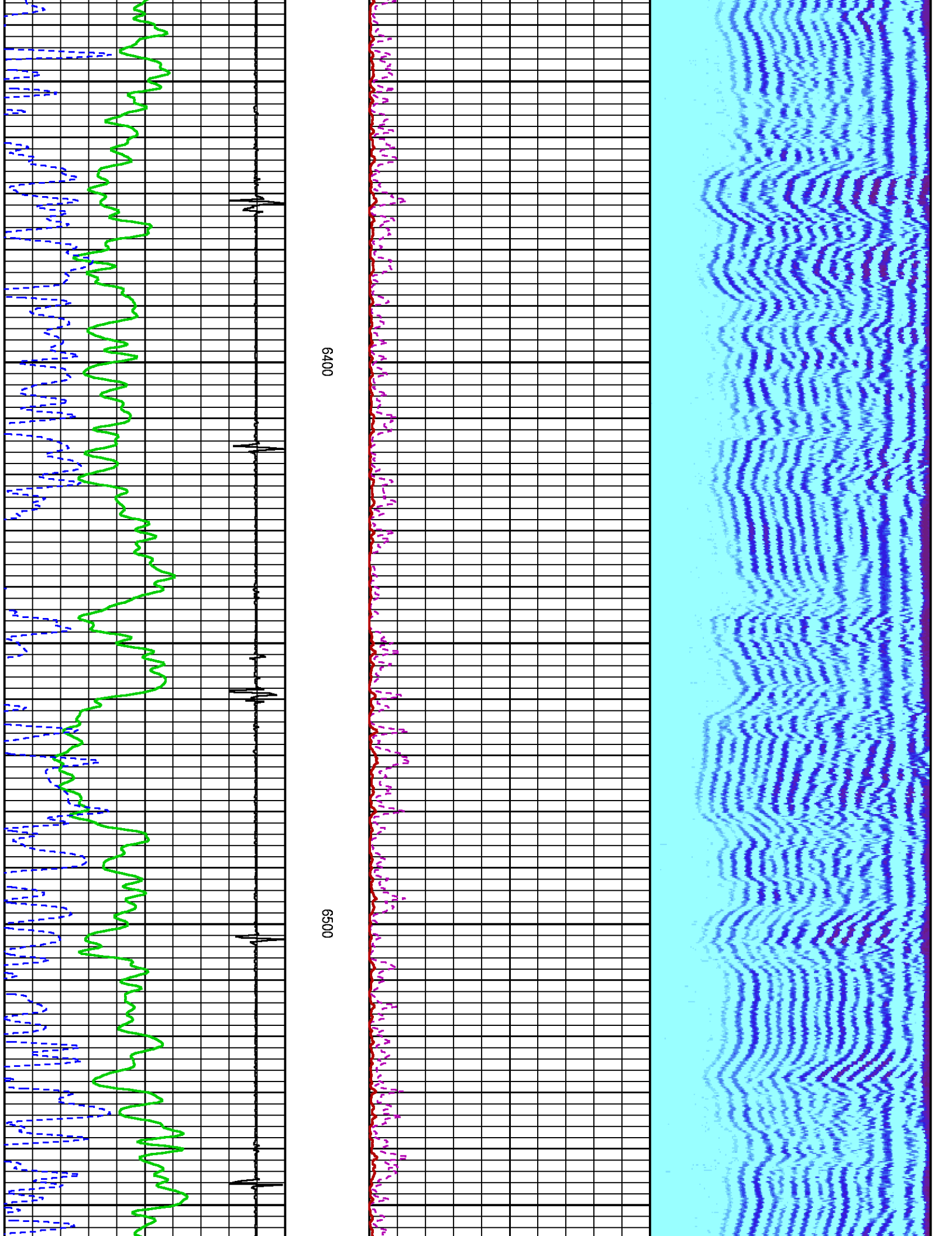
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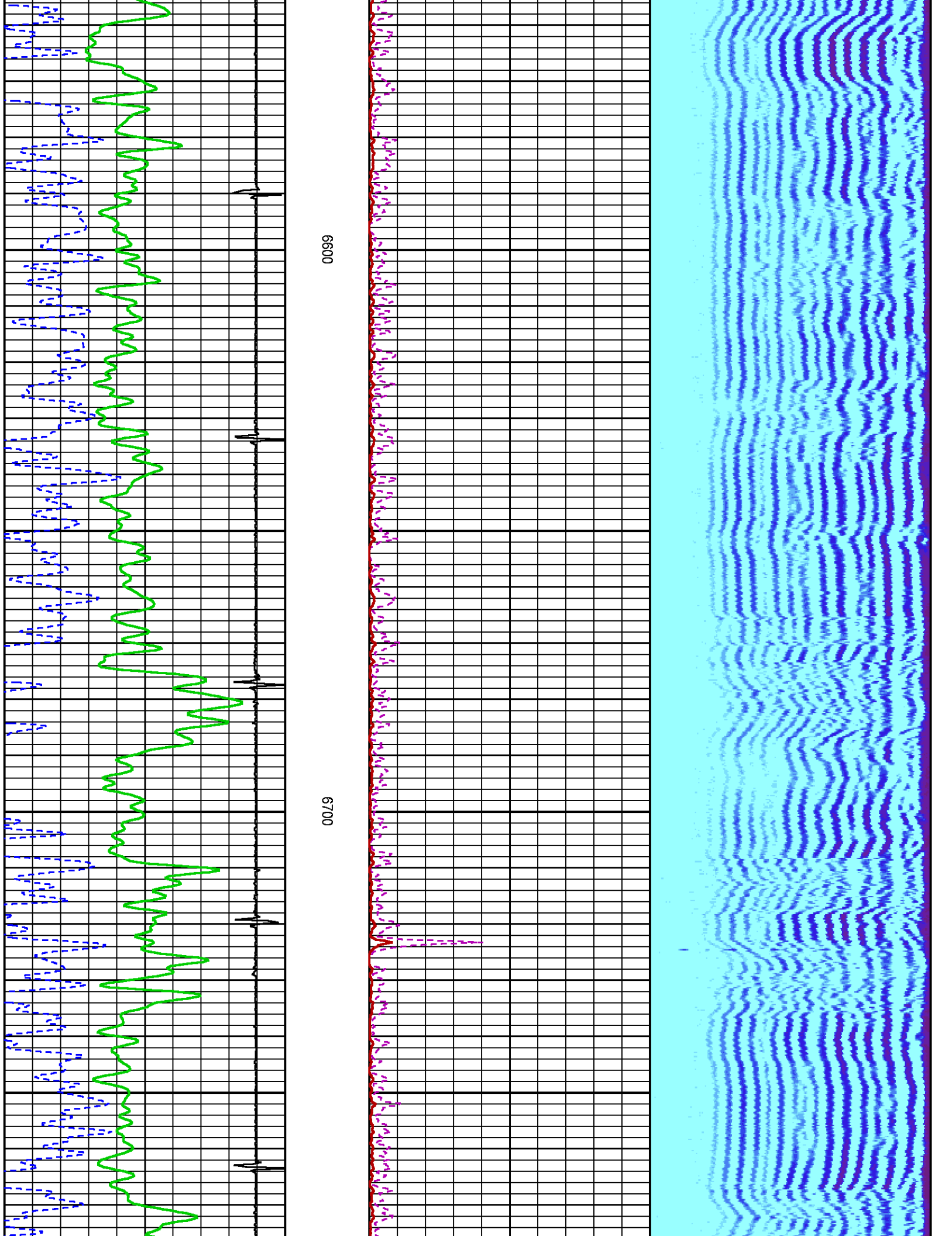
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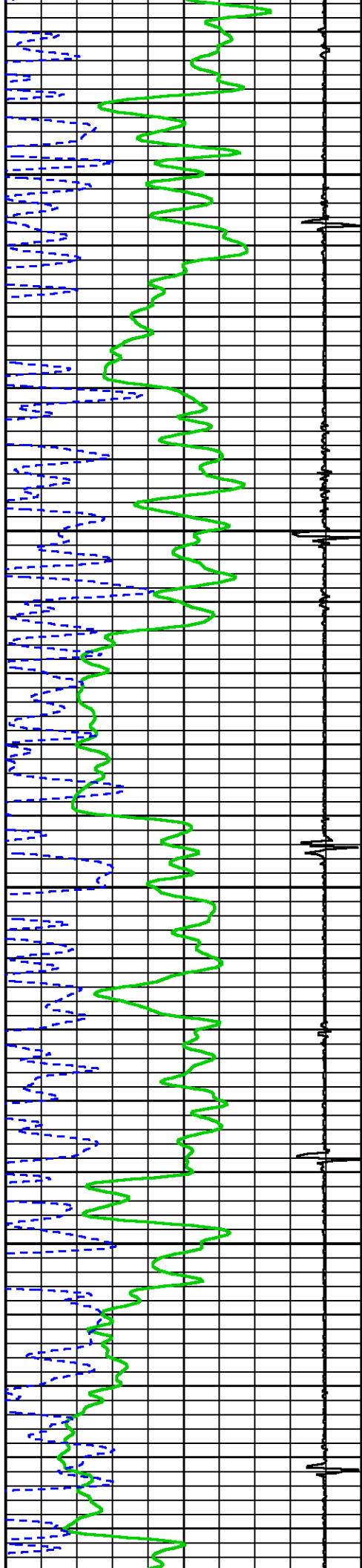
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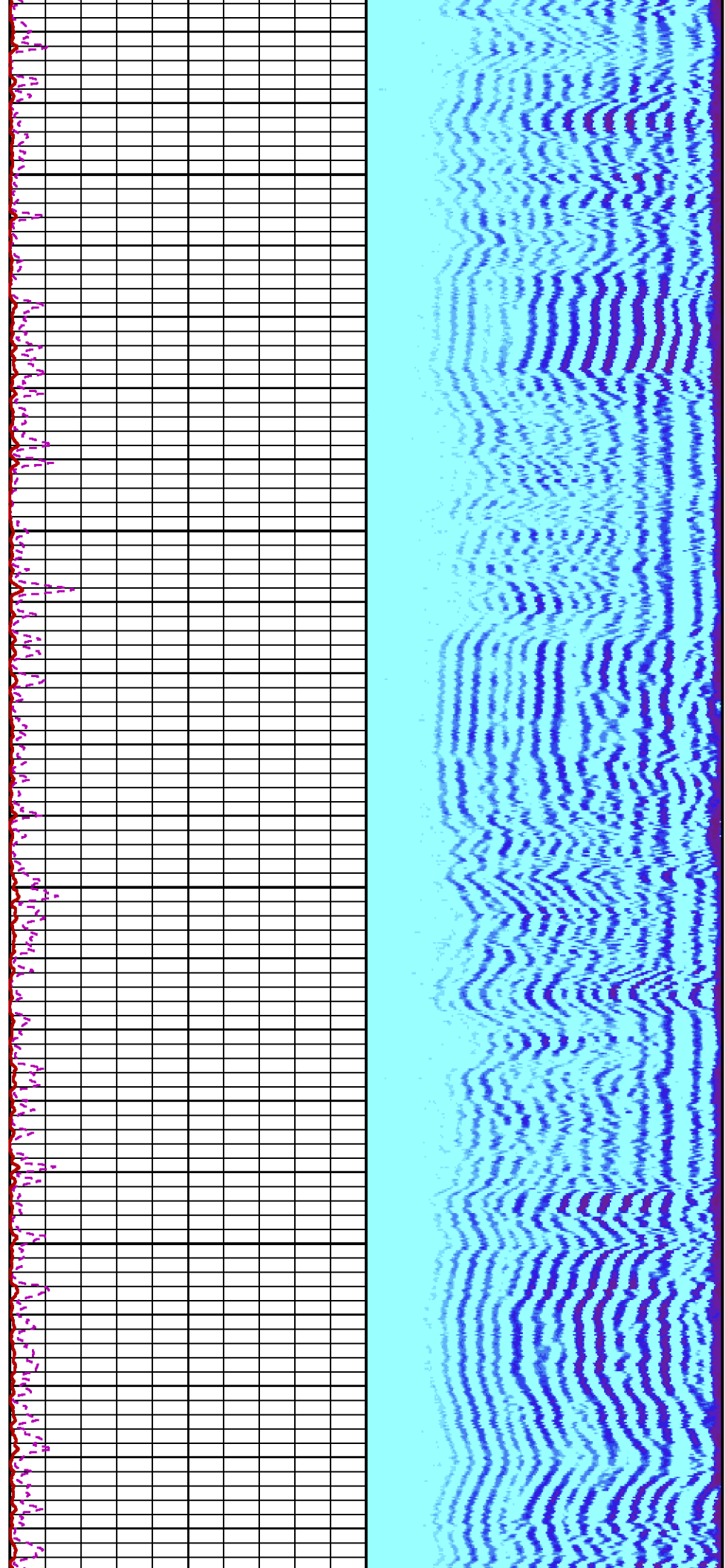


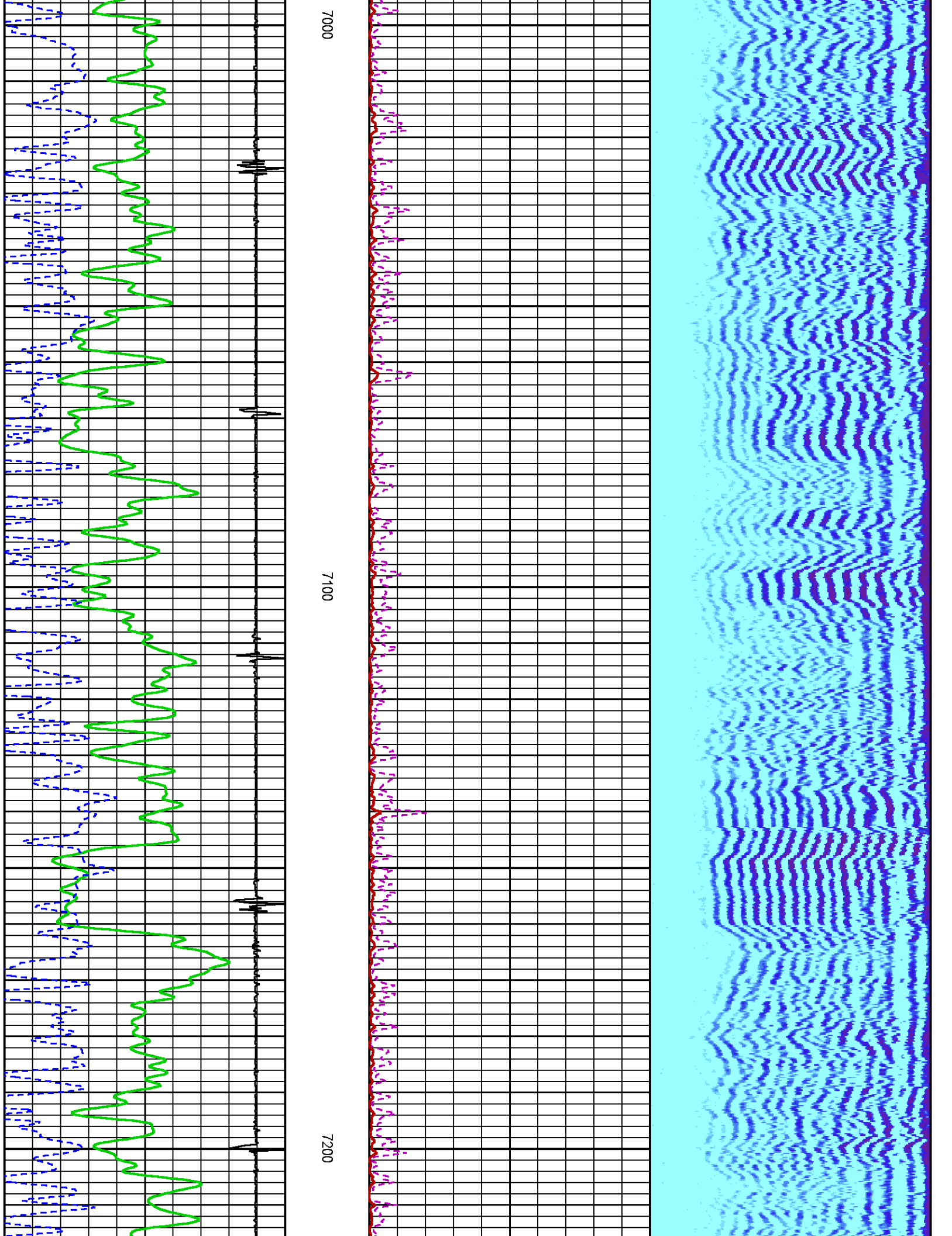


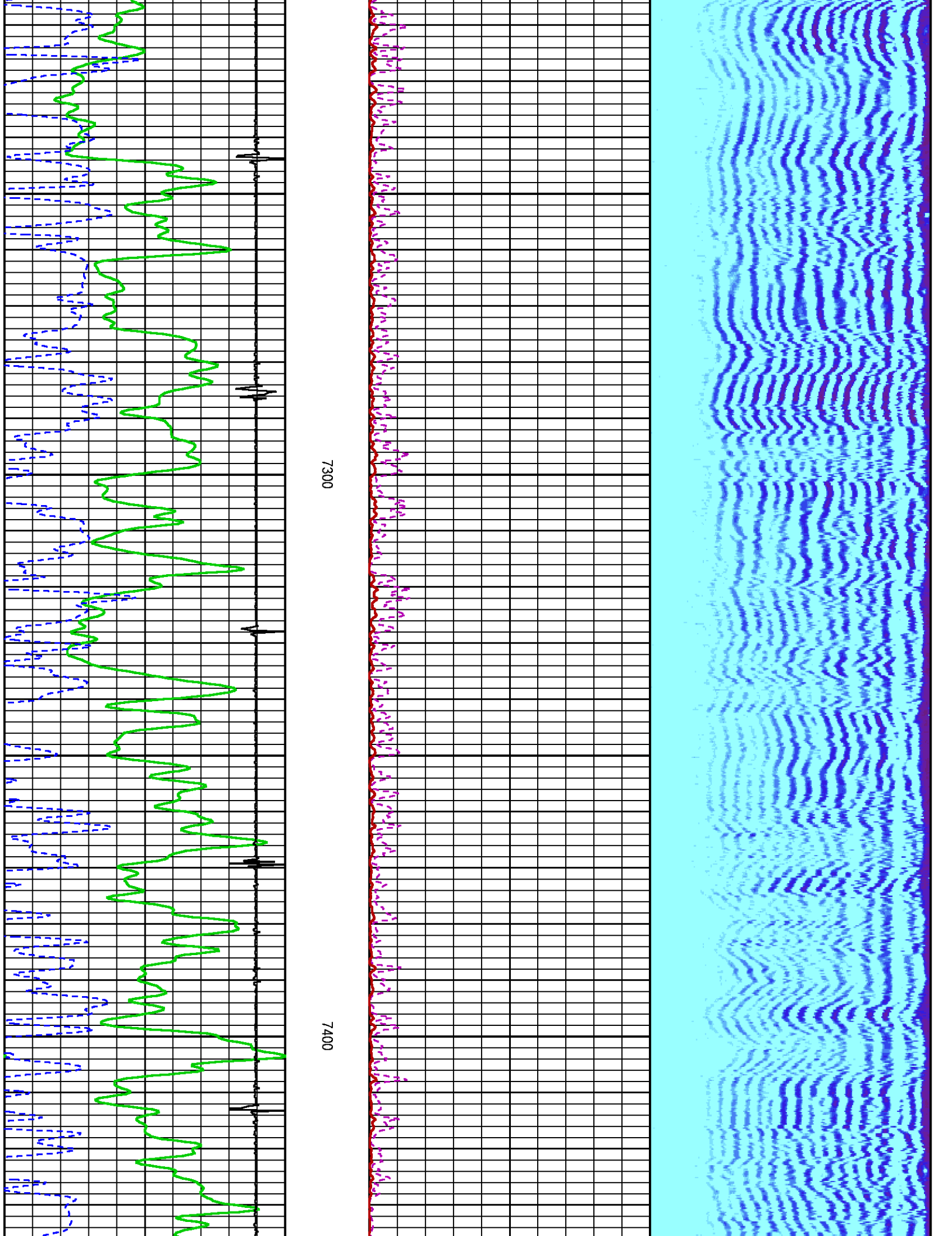


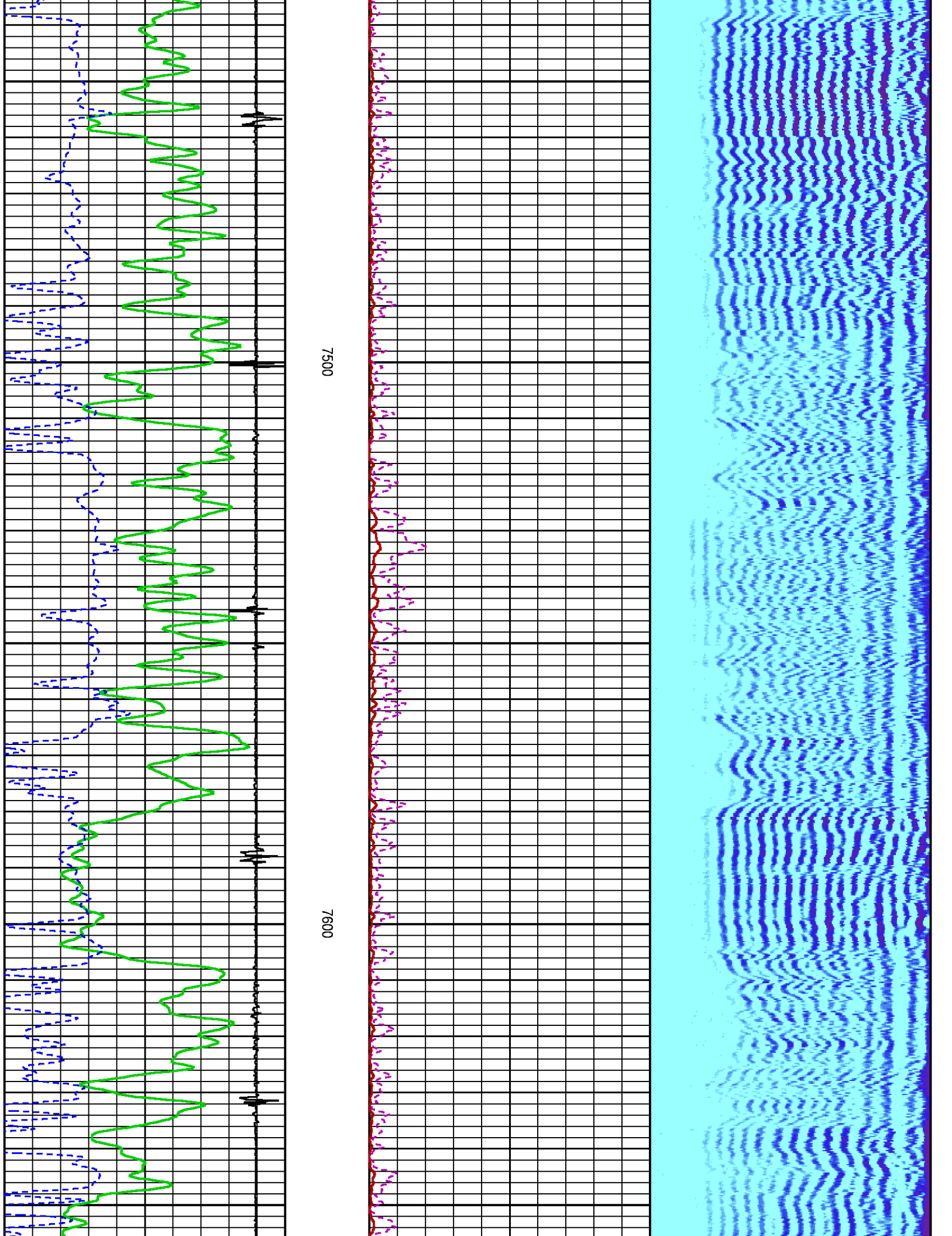
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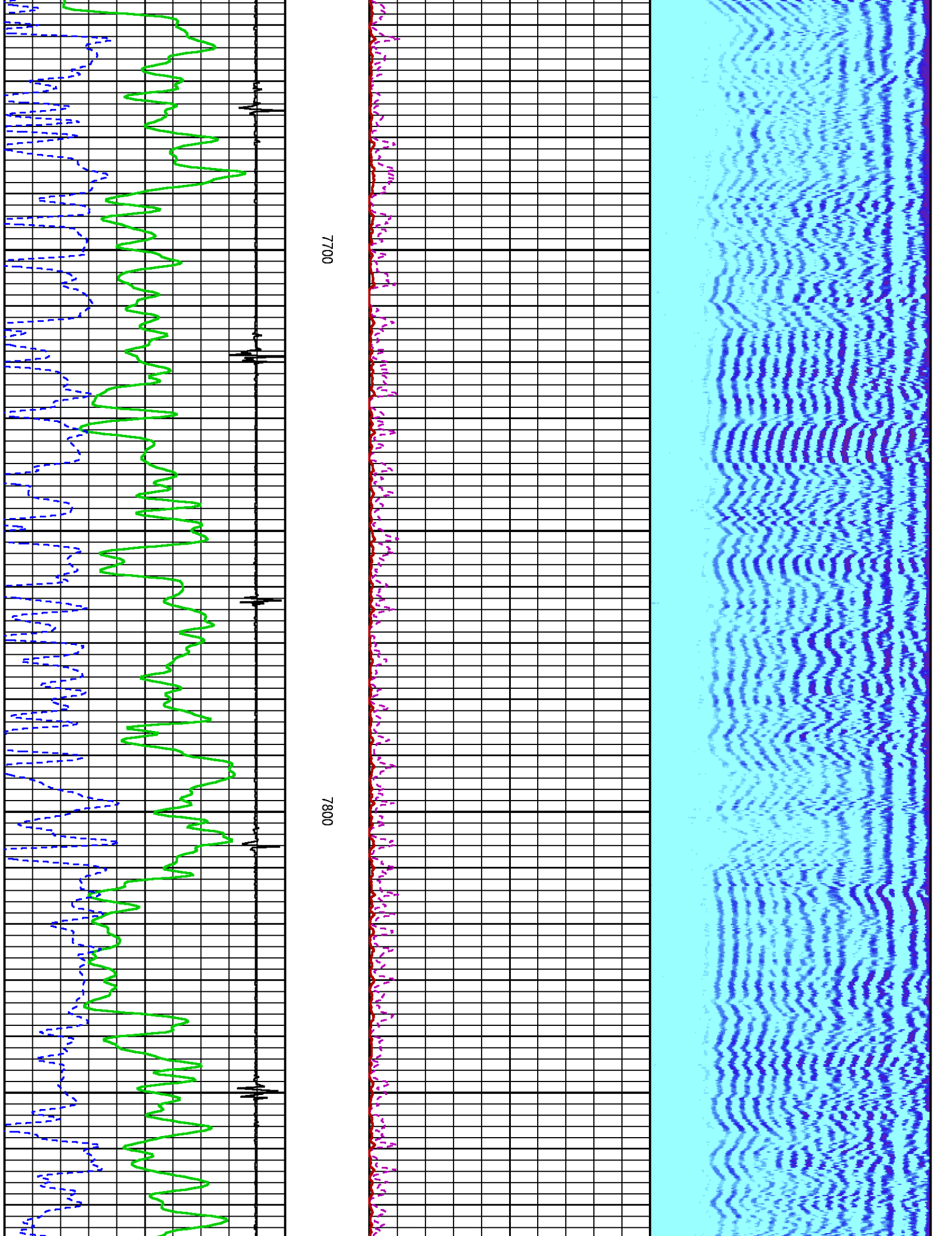
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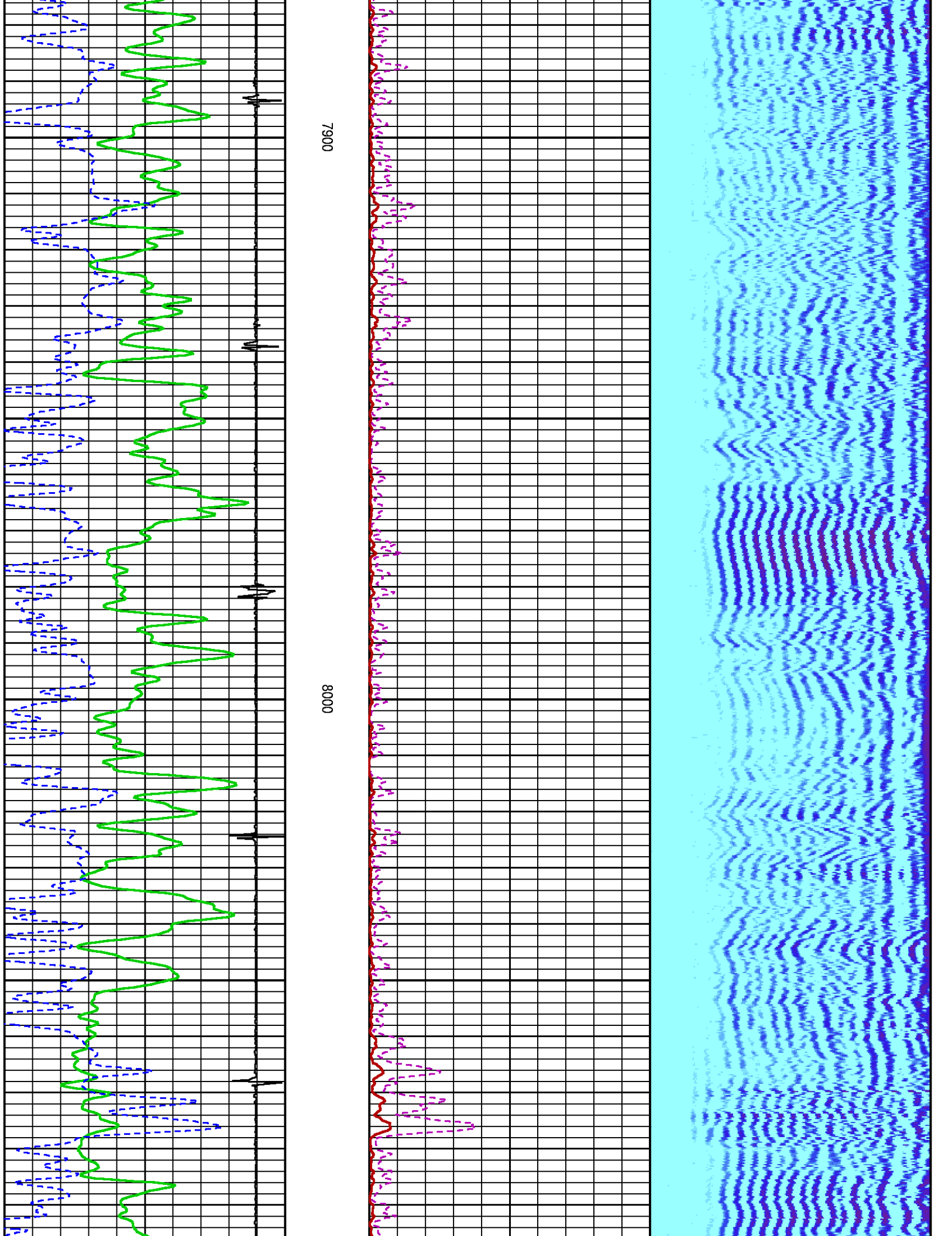


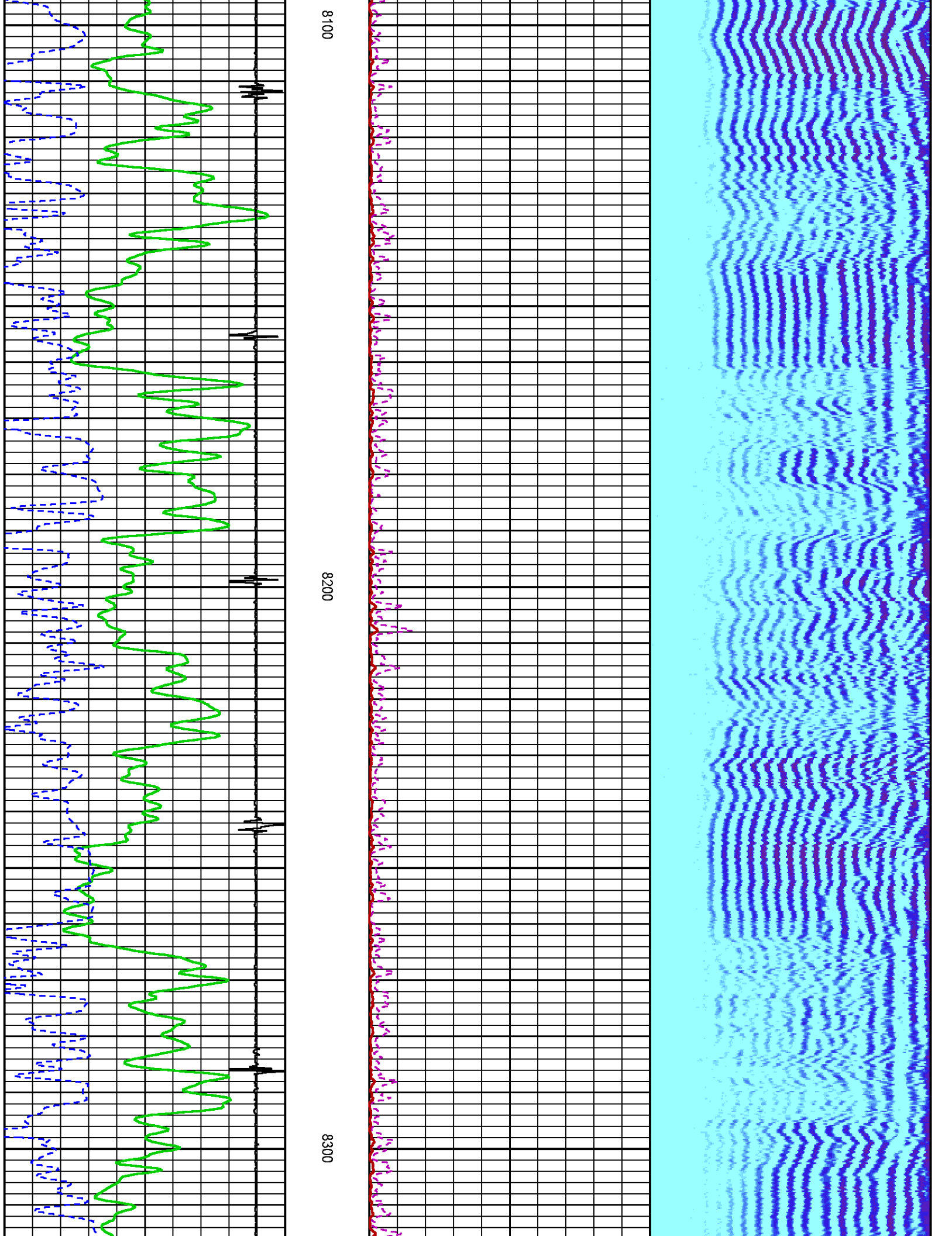


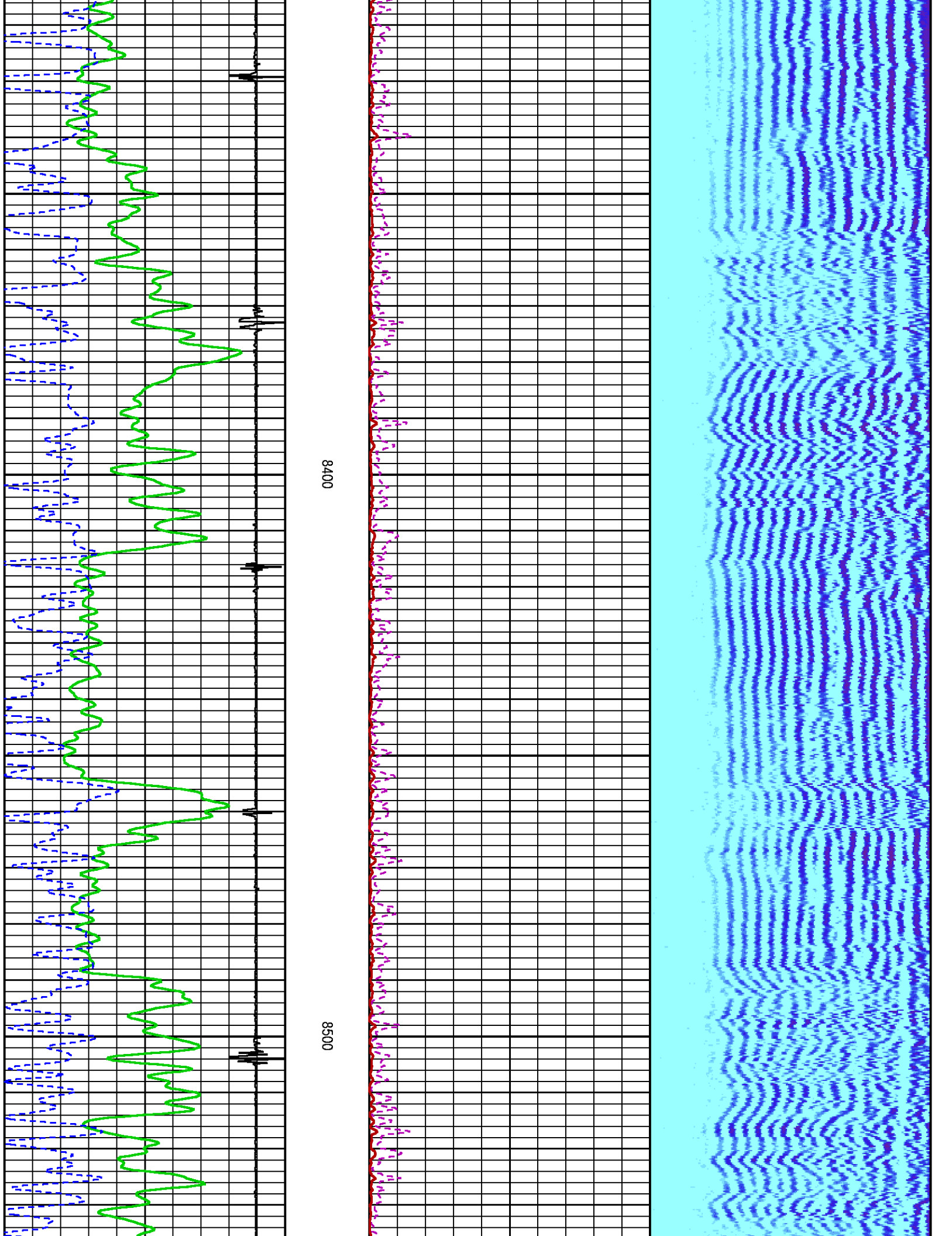


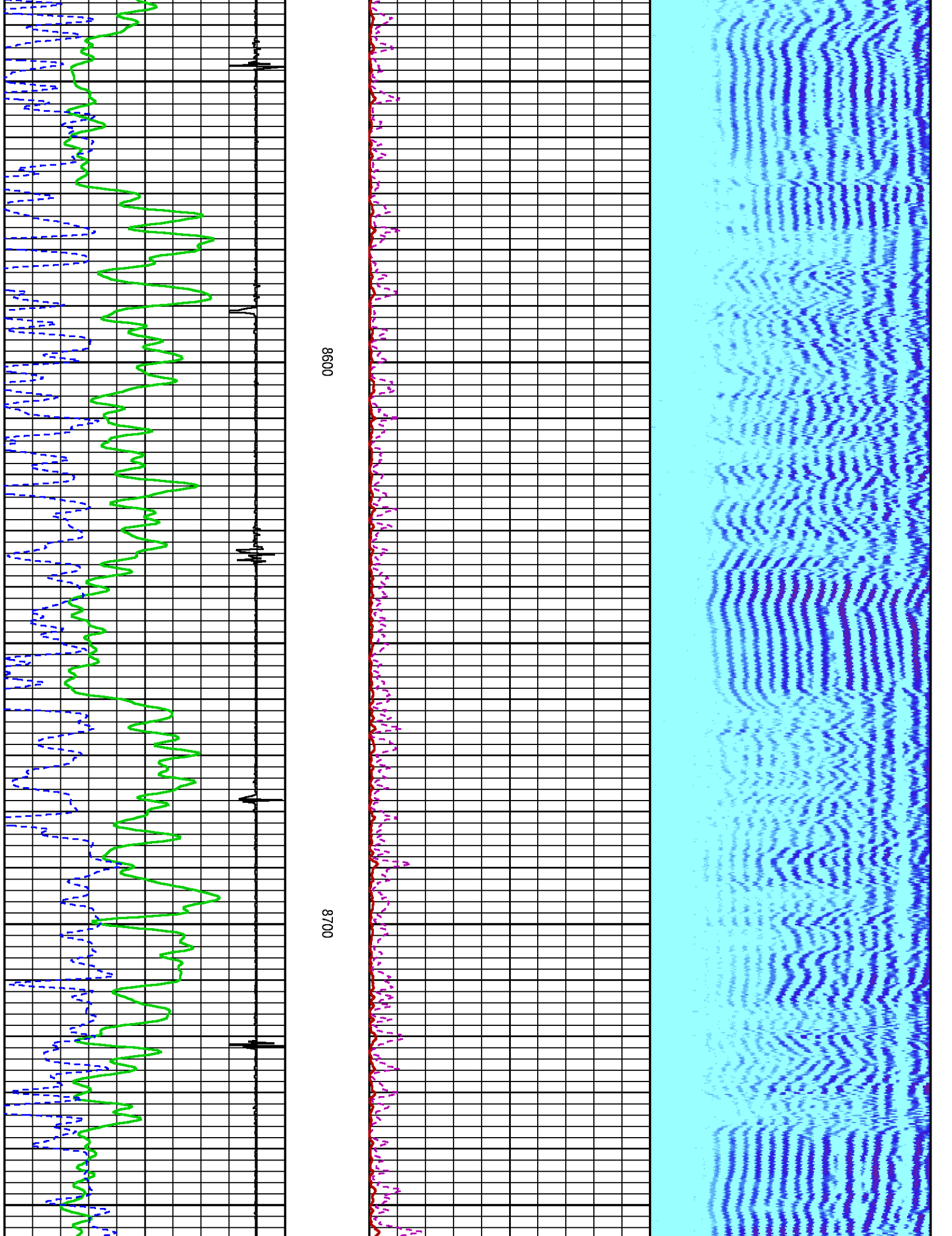


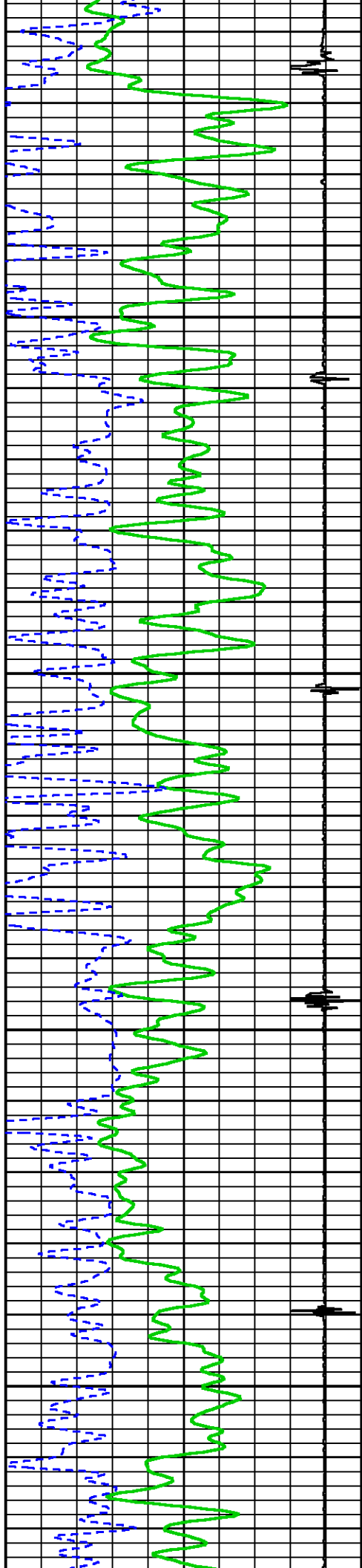






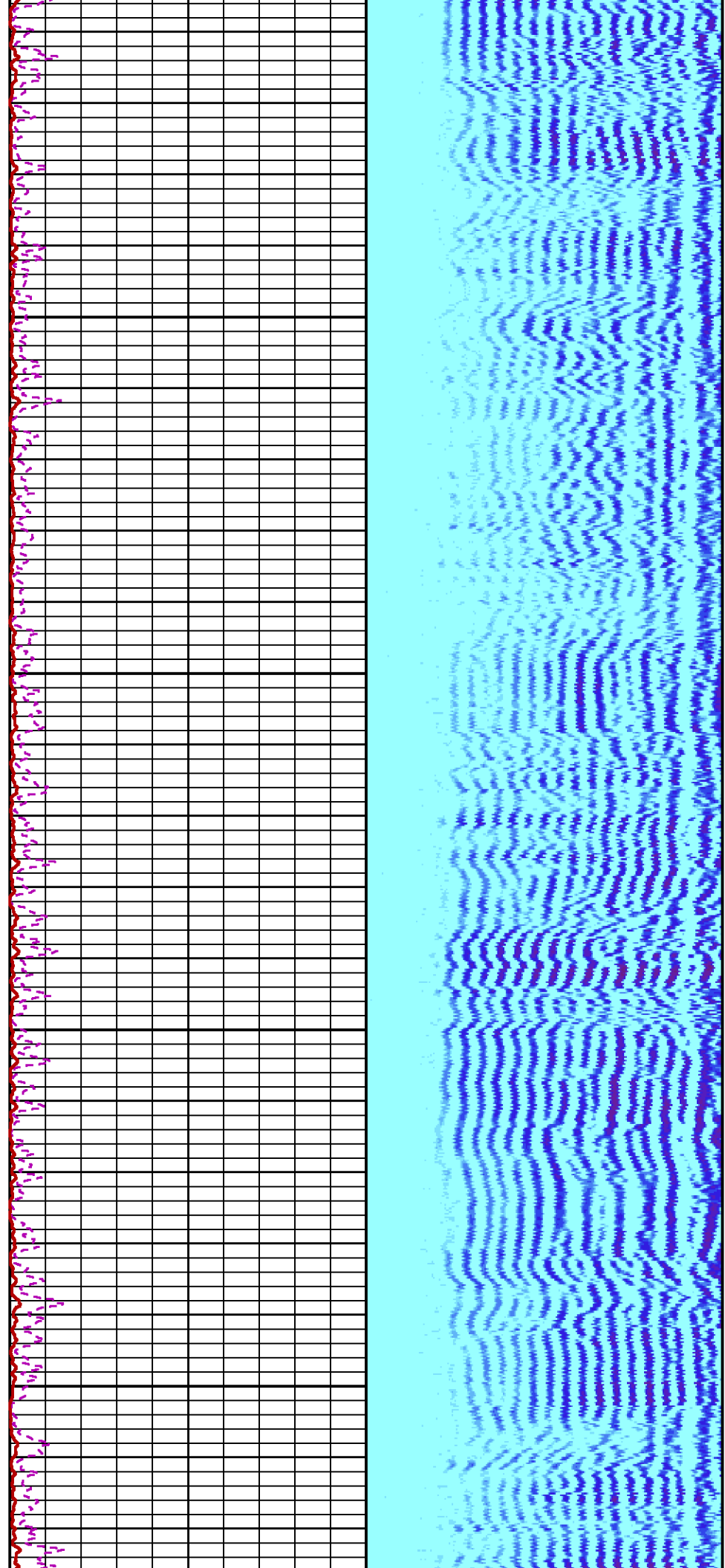


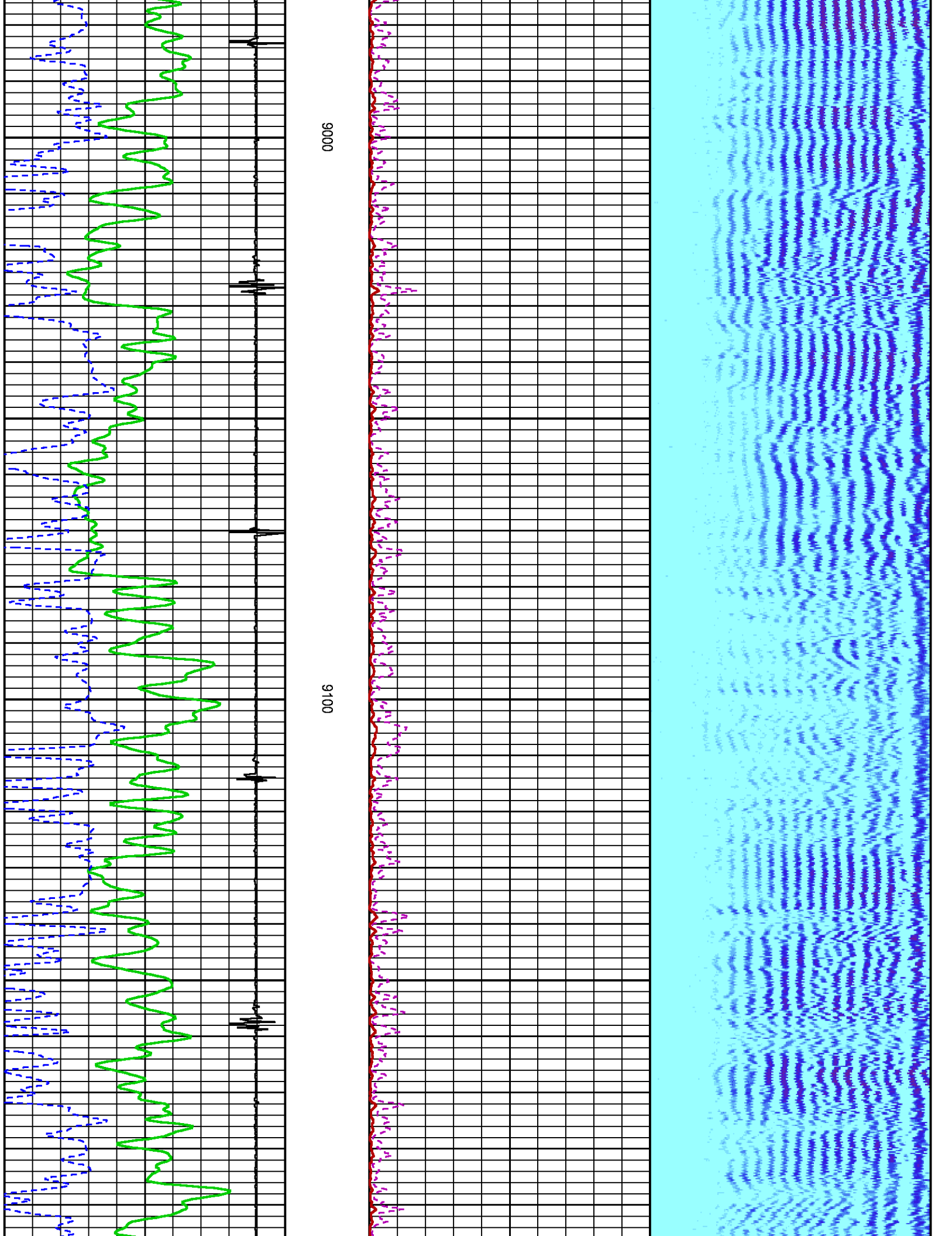




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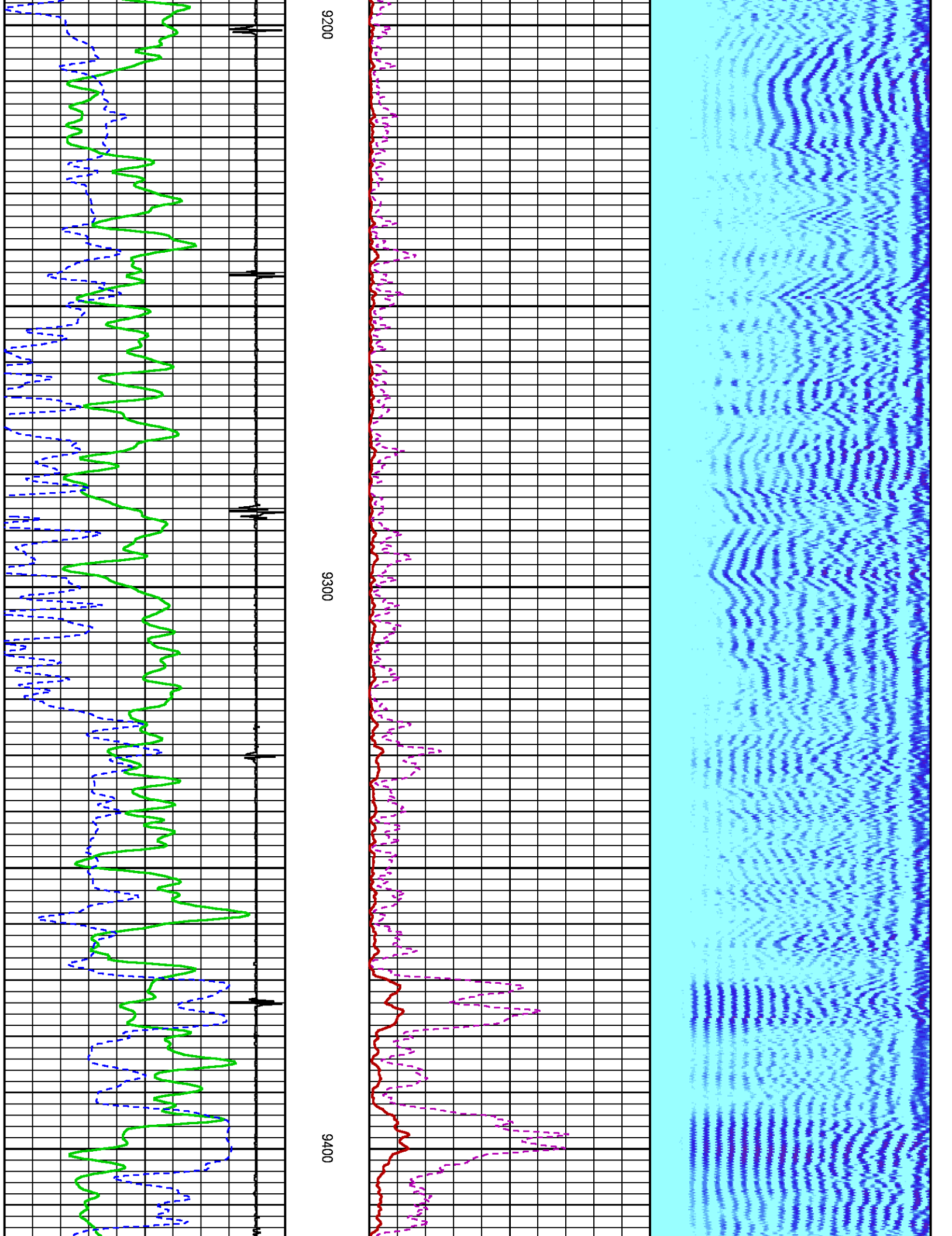
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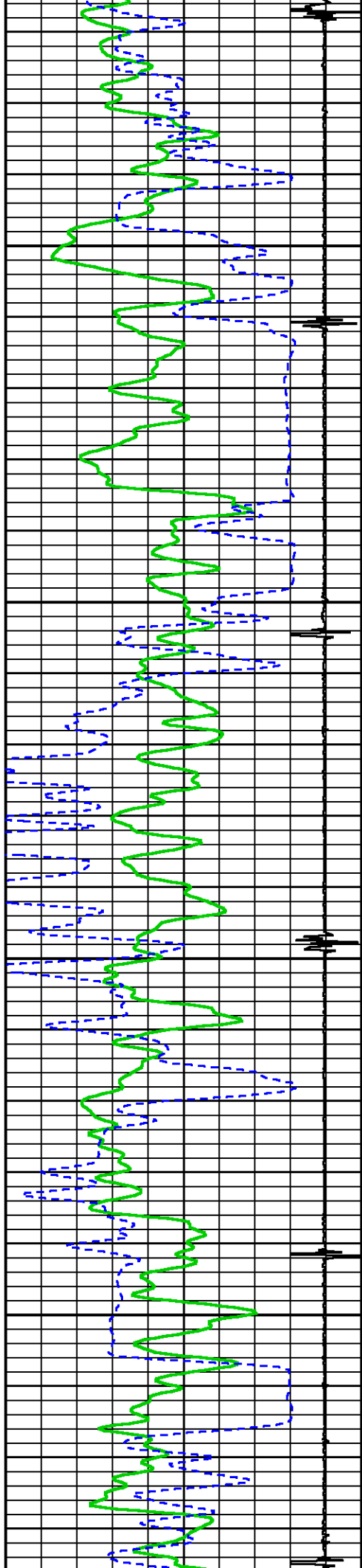




9000

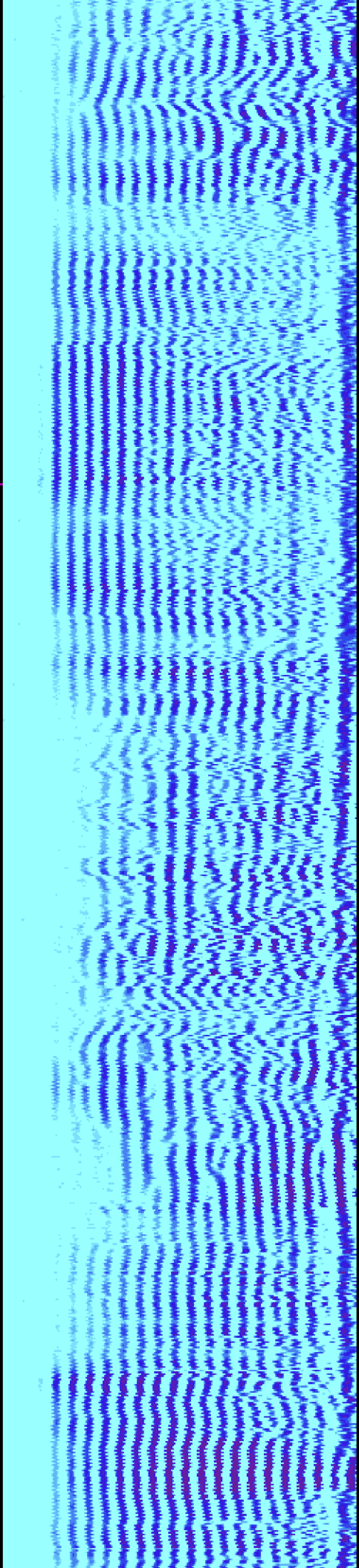
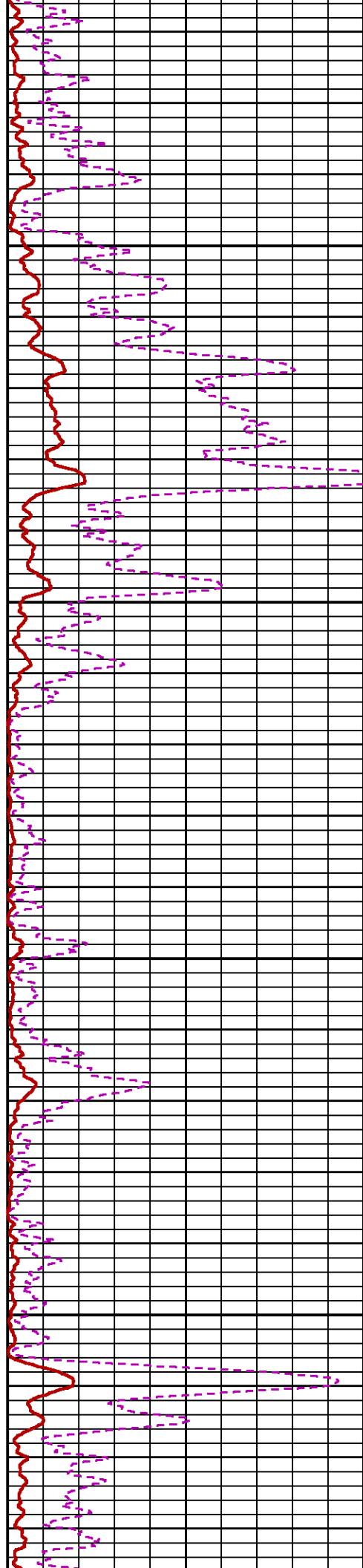
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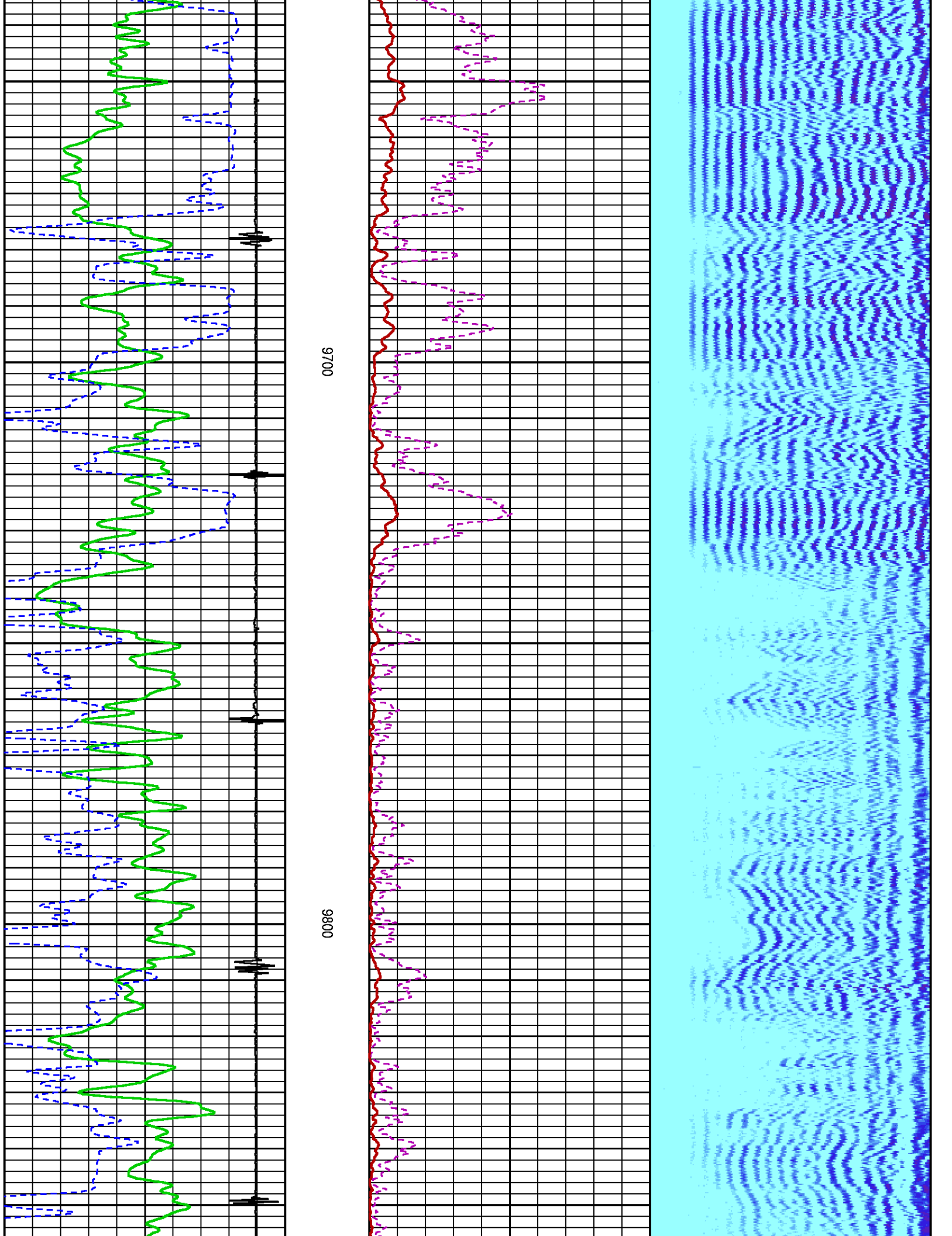


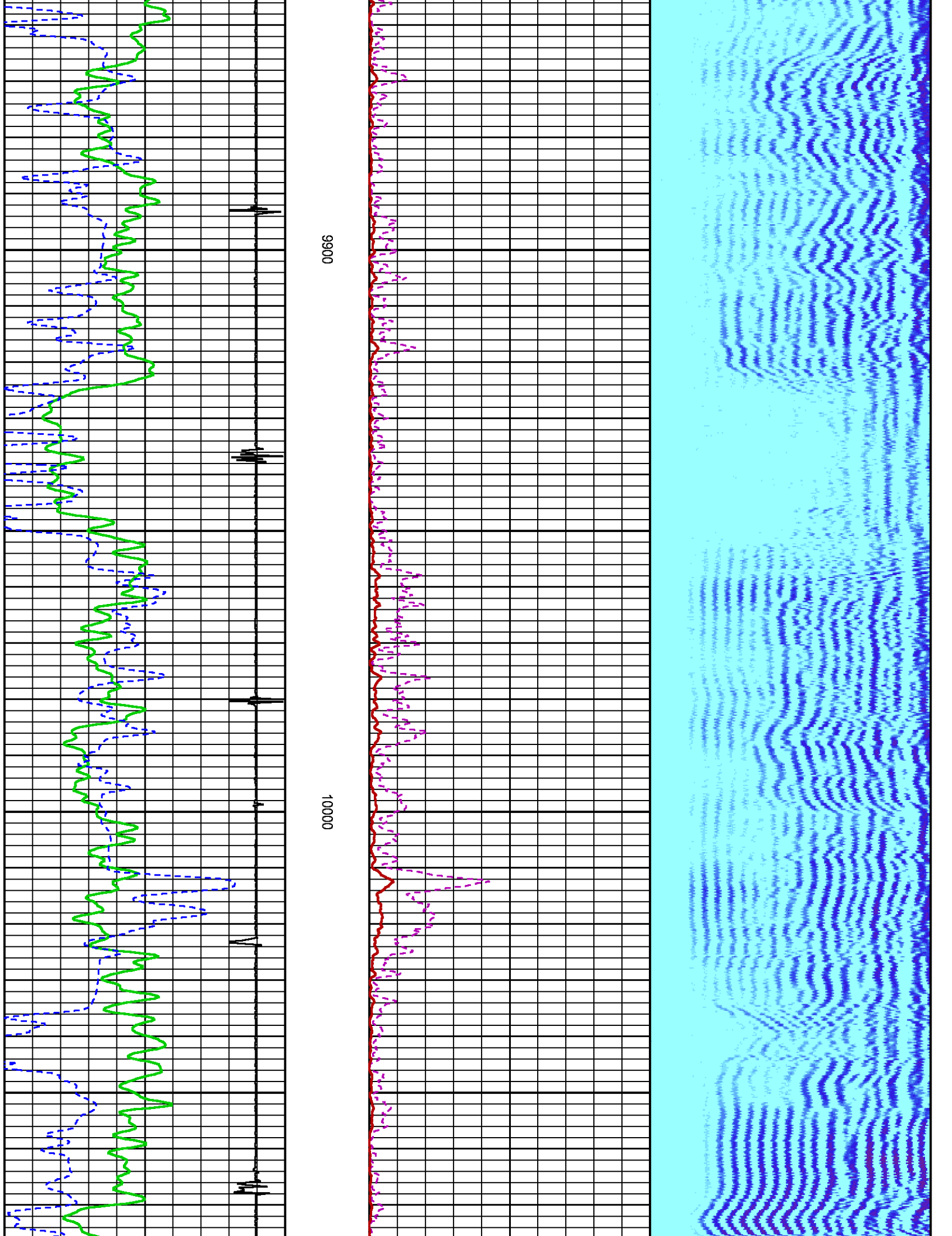


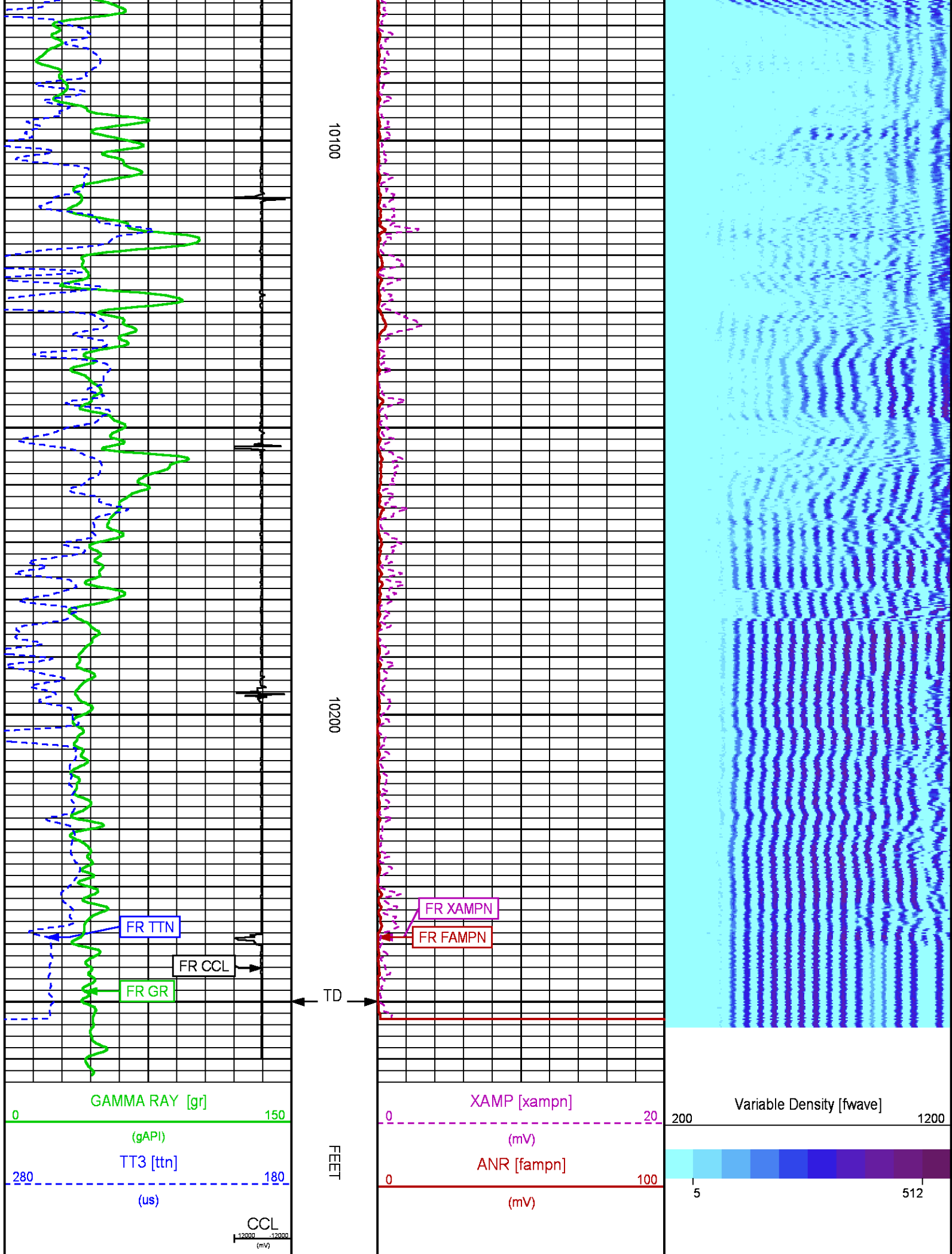
9600

9500

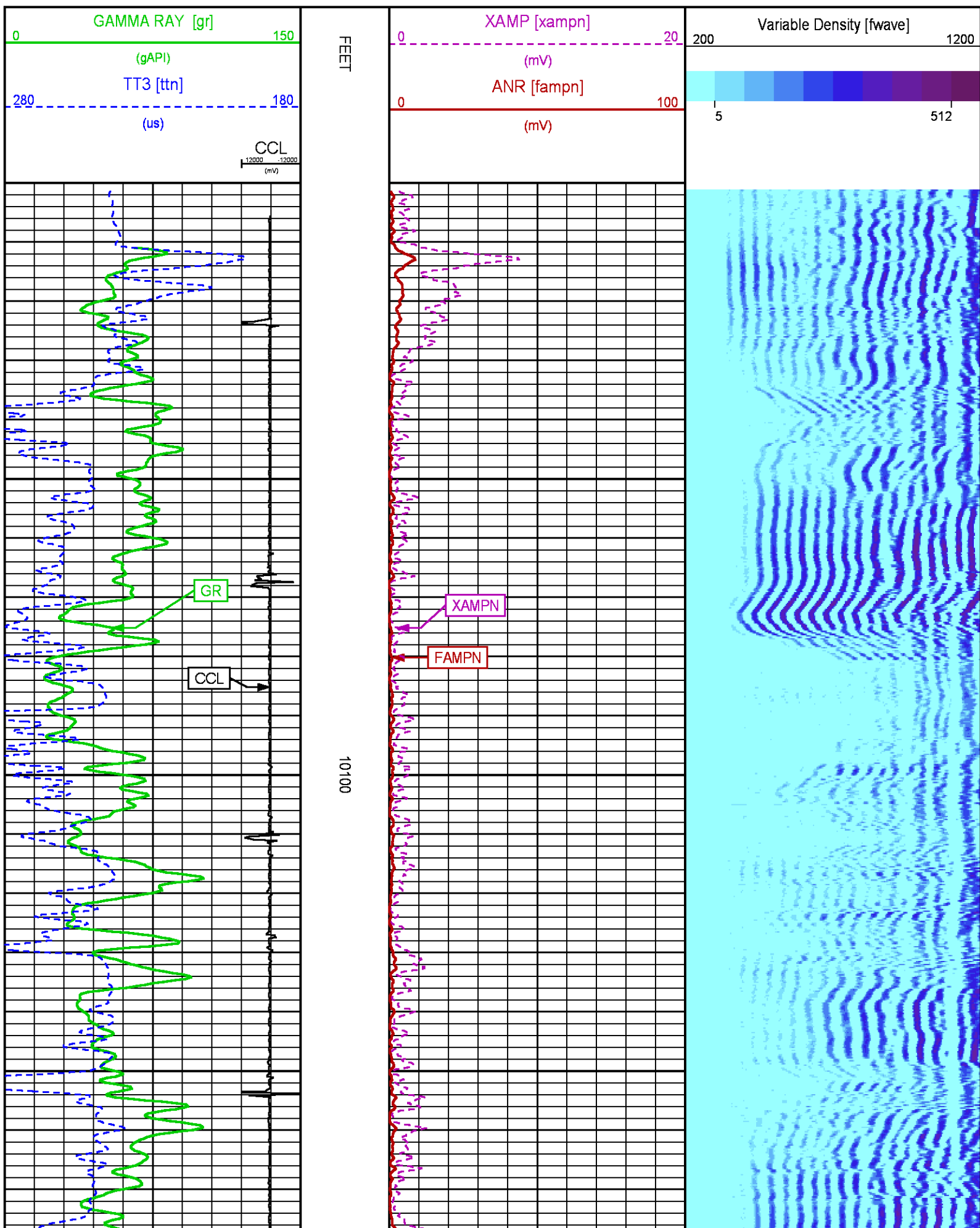


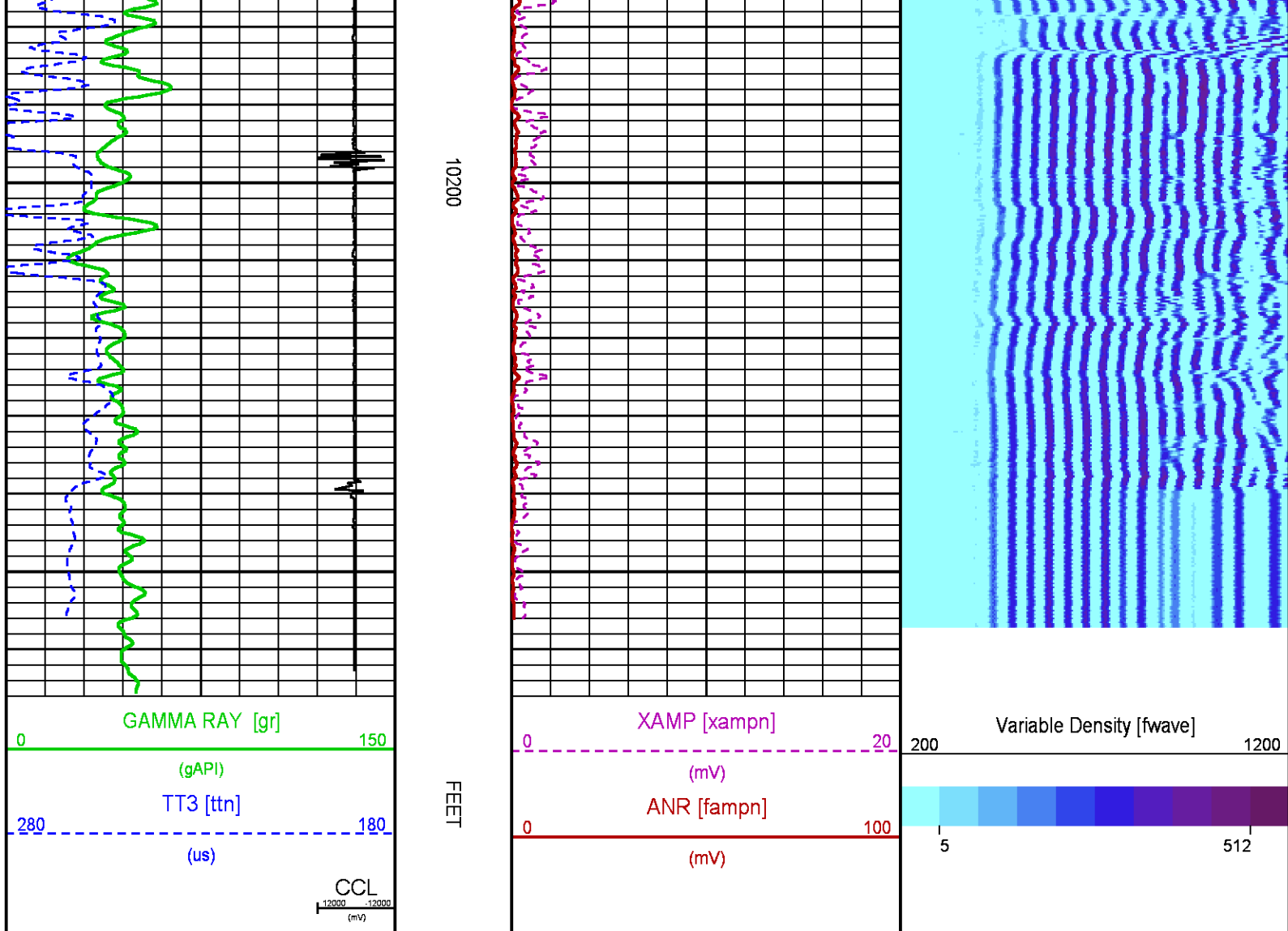






Well : FEDEARL RU 32-8
Field : RULISON
File Interval : 9984.25 - 10252.5 Feet
OCT : n012g





SECONDARY PRESENTATION 0 PSI

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

Plotted: Fri Feb 19 22:52:41 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105821/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7.750 ft BOTTOM DEPTH: 10249.923 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		TOP	4653.250
		light (2a)		4653.250	BOTTOM
TRAVEL TIME	FILTER ()	medium (1)		TOP	BOTTOM

RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
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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*)	174	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*)	-64	us	"	"
	TOOL DELAY (str2*)	-64	us	"	"
	TOOL DELAY (str3*)	-64	us	"	"
	TOOL DELAY (str4*)	-64	us	"	"
	TOOL DELAY (str5*)	-64	us	"	"
	TOOL DELAY (str6*)	-64	us	"	"
	TOOL DELAY (str7*)	-64	us	"	"
	TOOL DELAY (str8*)	-64	us	"	"
	TOOL DELAY (strn*)	-64	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	128	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	"	"

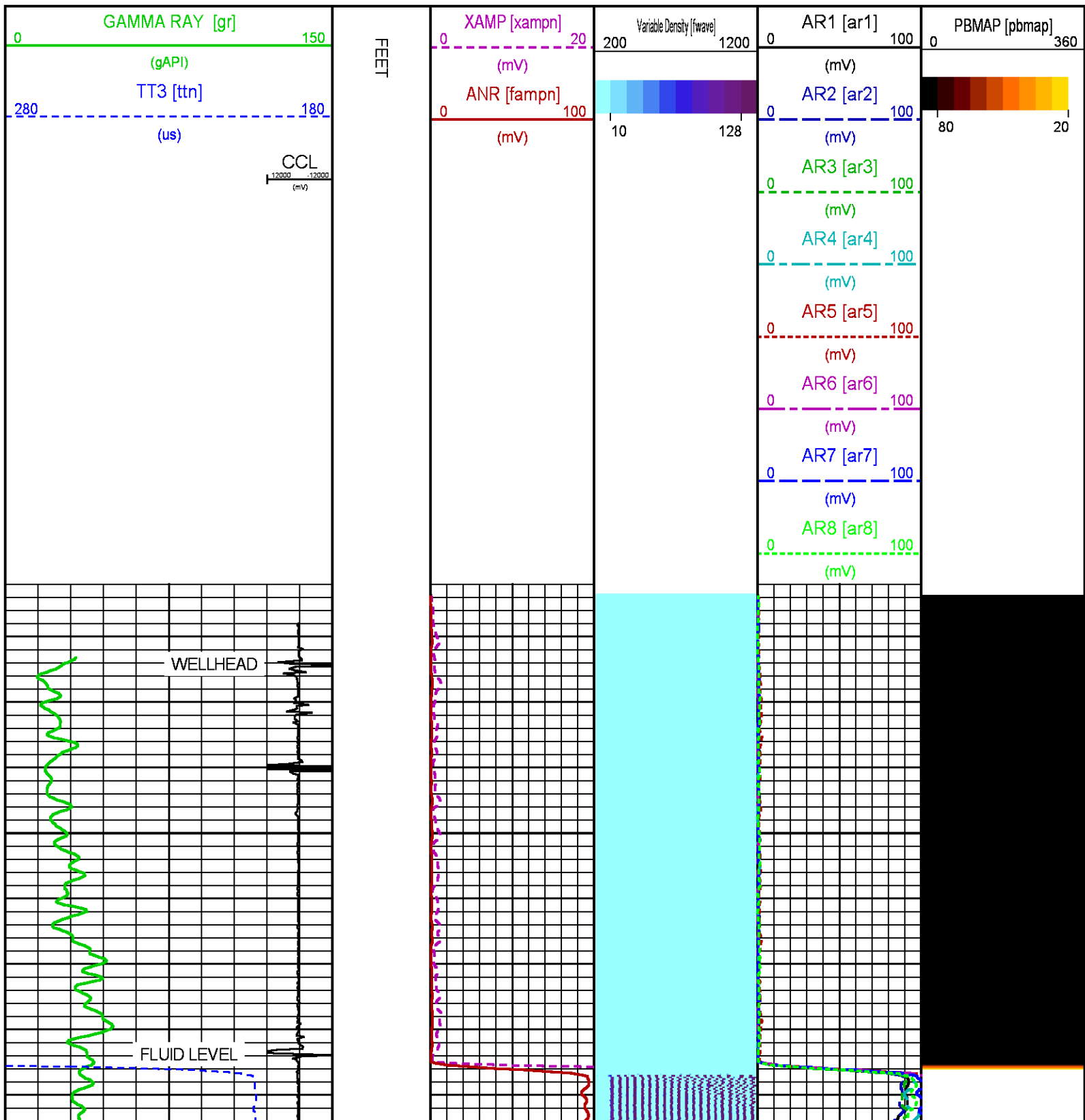
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Feb 19 20:34:32 2016	CASING COLLAR LOCATOR
F1:FAMPN	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 19 20:34:32 2016	FAR WAVE FORM
F1:GR	Feb 19 20:34:32 2016	GAMMA RAY
F1:PBMAP	Feb 19 20:34:32 2016	PERCENT BOND CEMENT MAP
F1:TTN	Feb 19 20:34:32 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 19 20:34:32 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

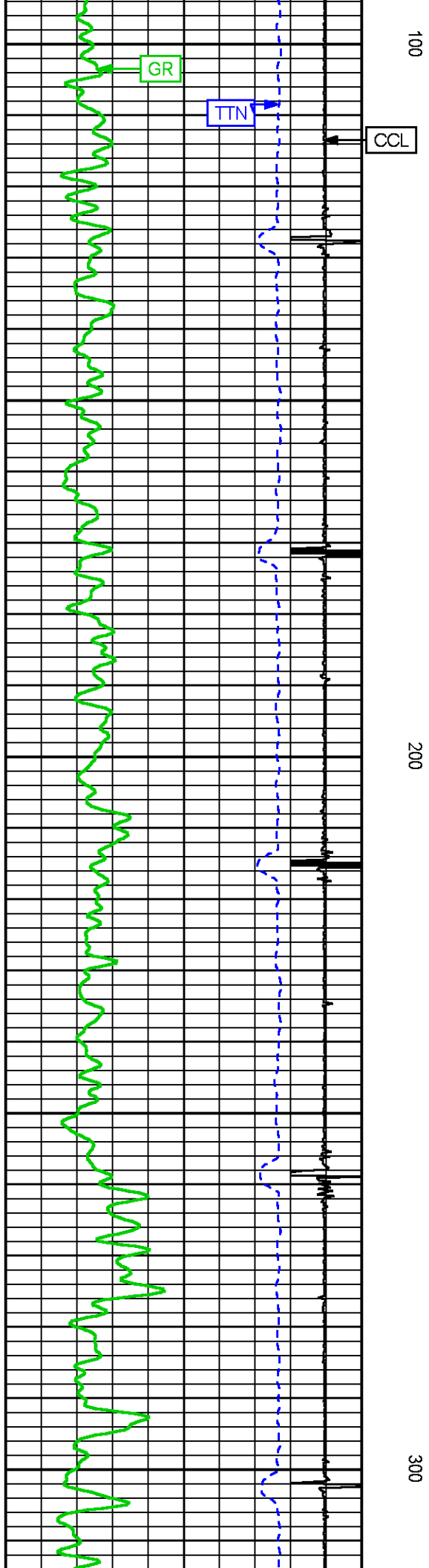
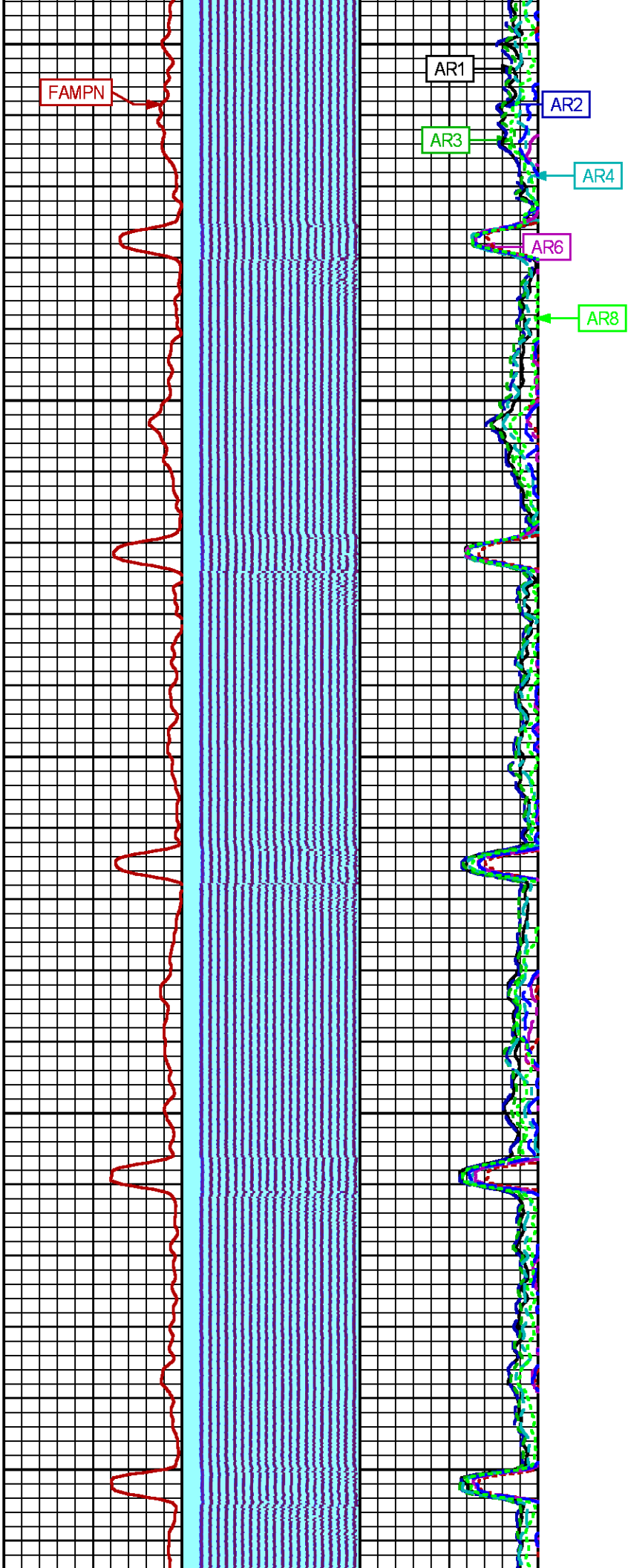
CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (#)	CURVE	OFFSET (#)	CURVE	OFFSET (#)

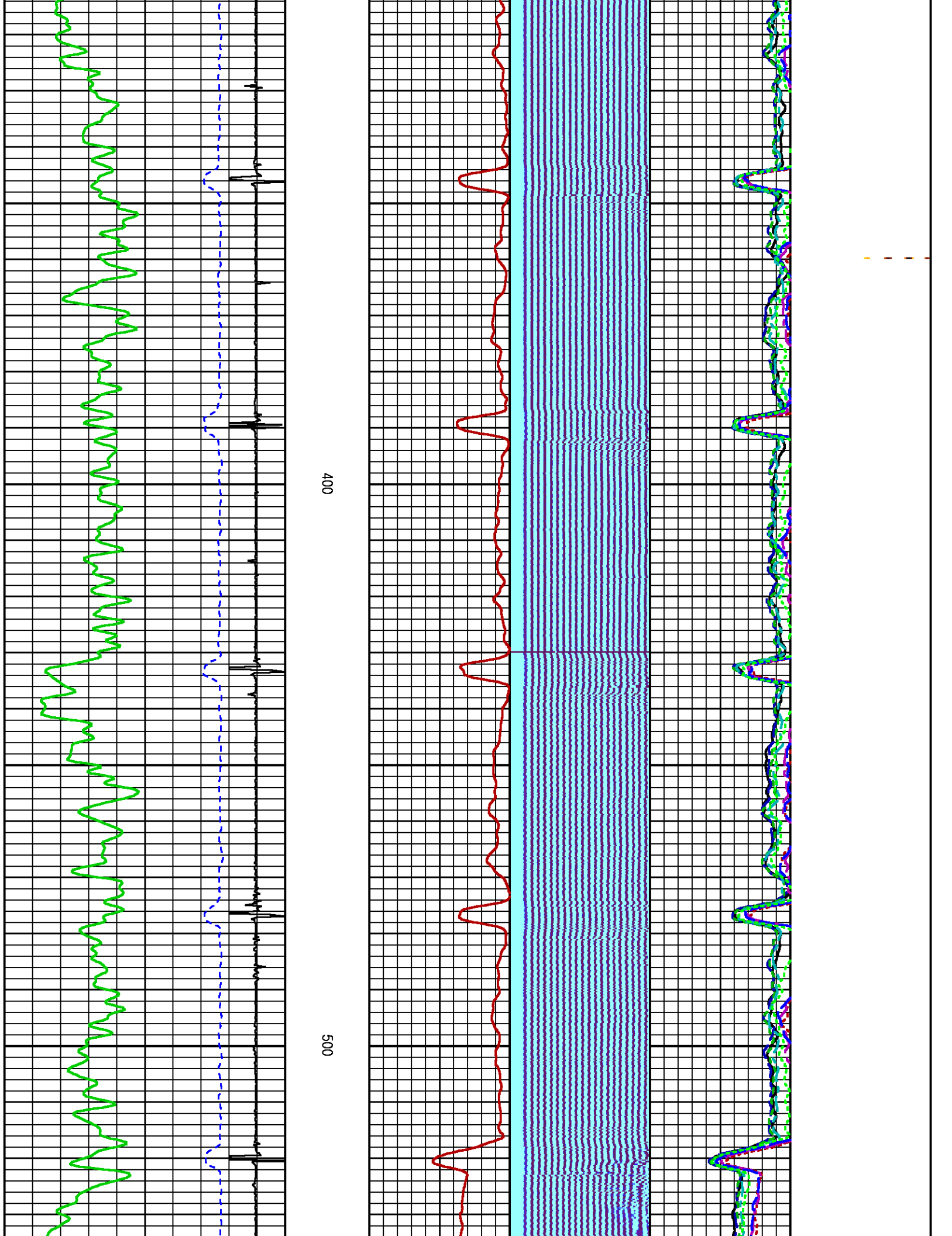
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

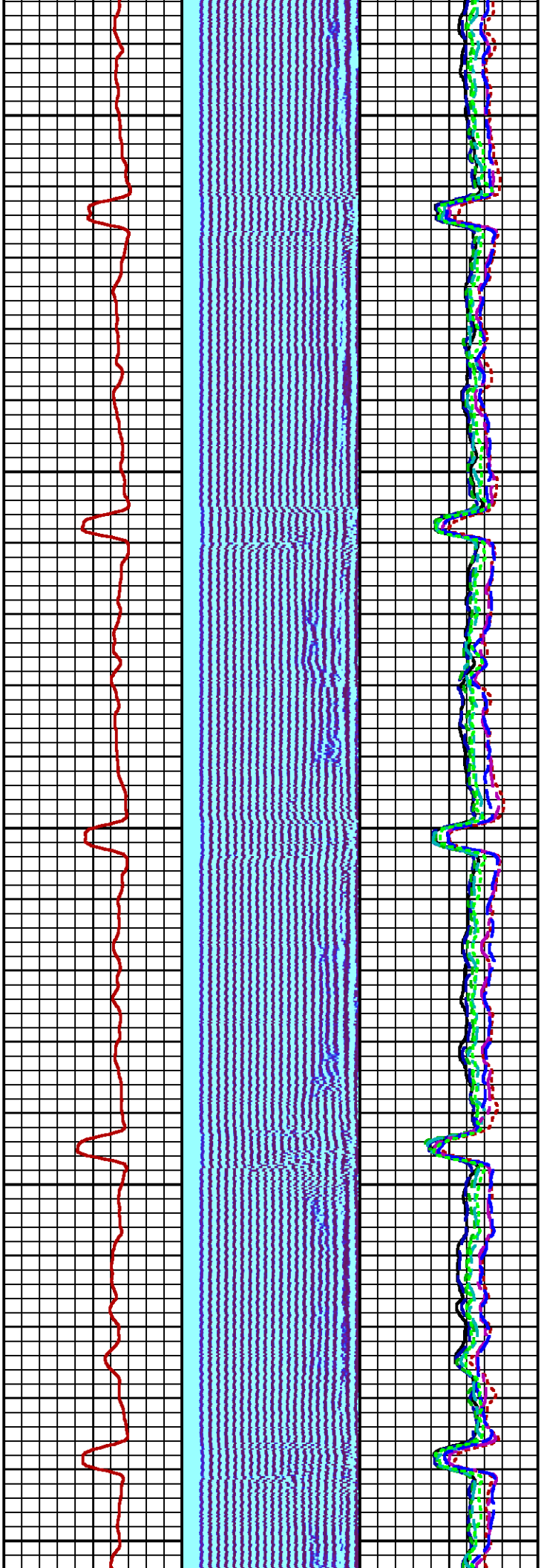
Presentation : cas6685:/dat1a/CH105821/secondary_cbl.fvpdf [5"/100' Scale]
Plot Interval : 13.5 - 10264.5 Feet

Data File 1 : F1 : cas6685:/dat1a/CH105821/n012g02.xtf
Created On : Feb 19 20:34:32 2016
Company : WPX ENERGY
Well : FEDEARL RU 32-8
Field : RULISON
File Interval : -3.5 - 10265.8 Feet
OCT : n012g



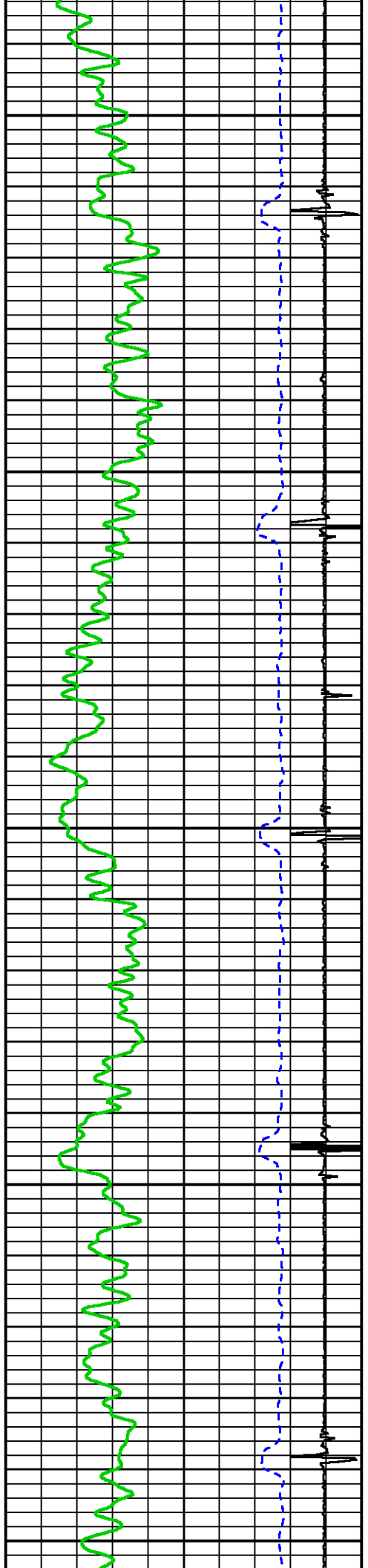


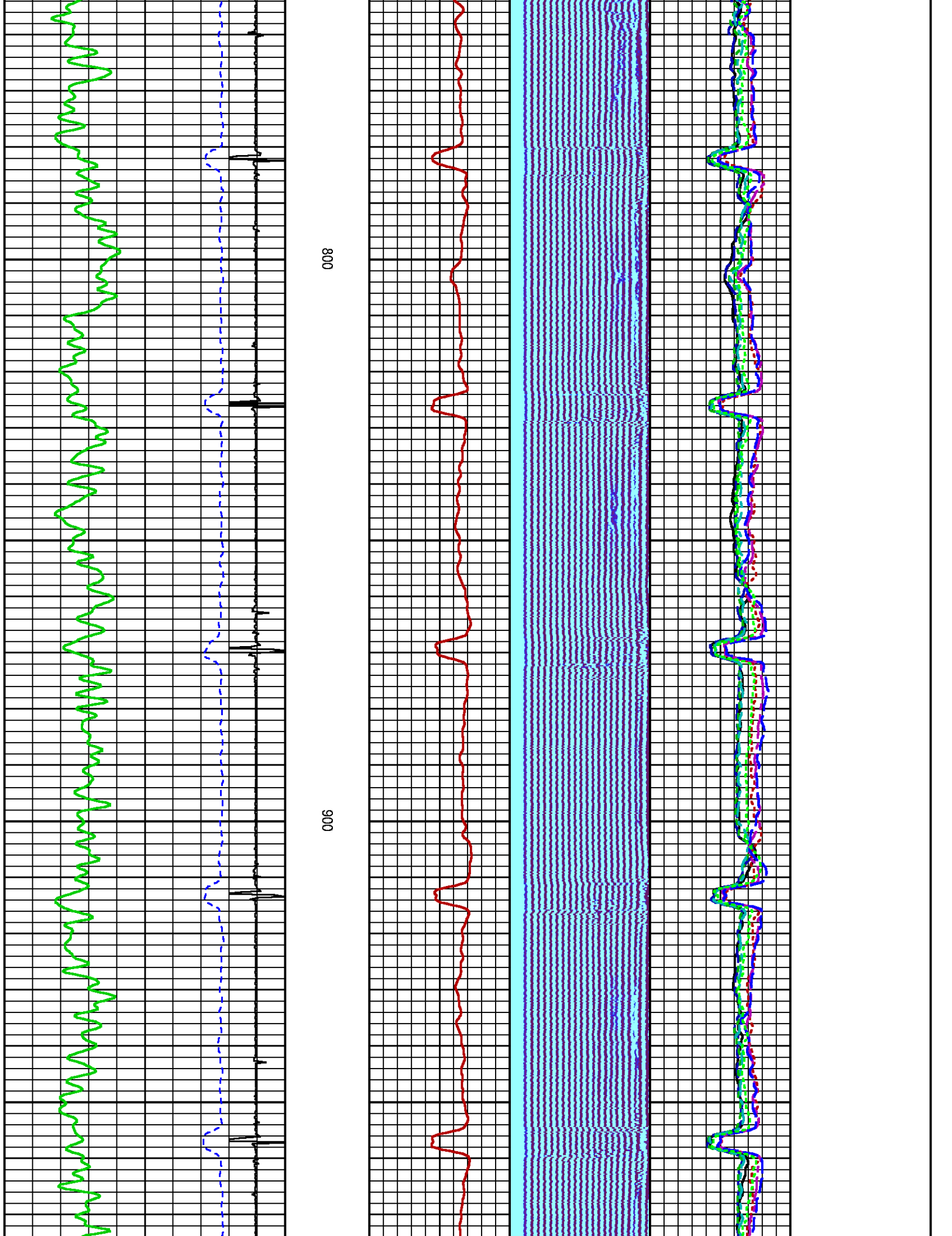


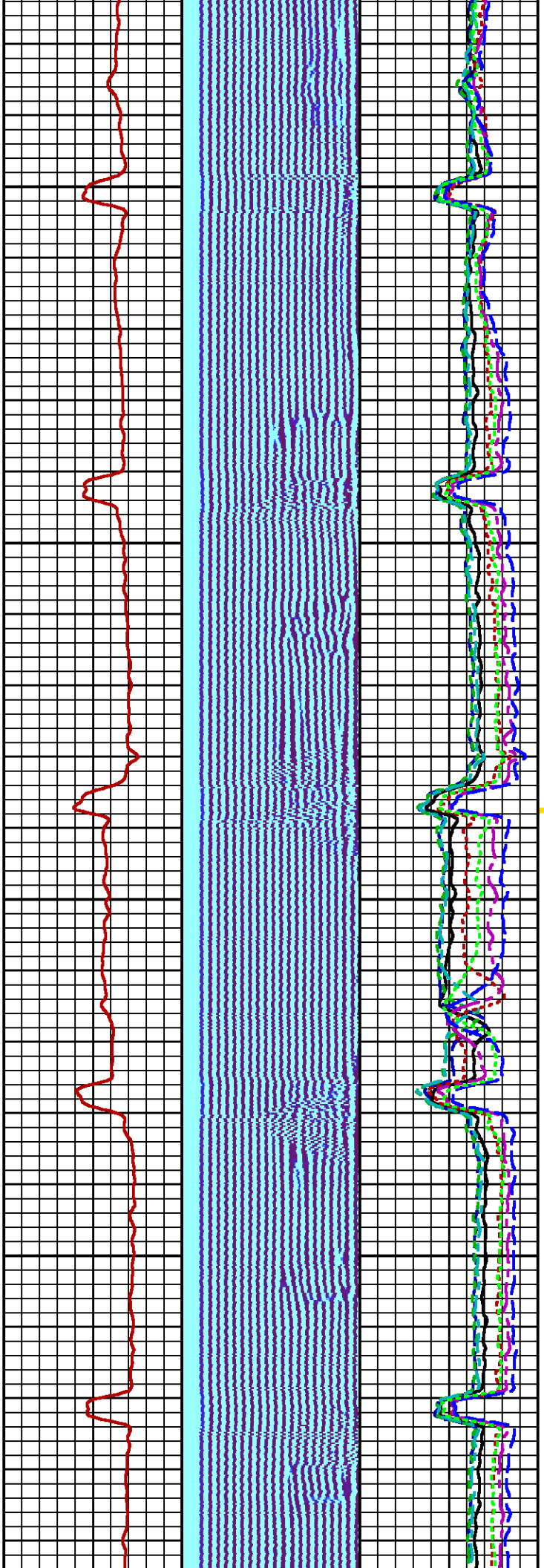


600

700

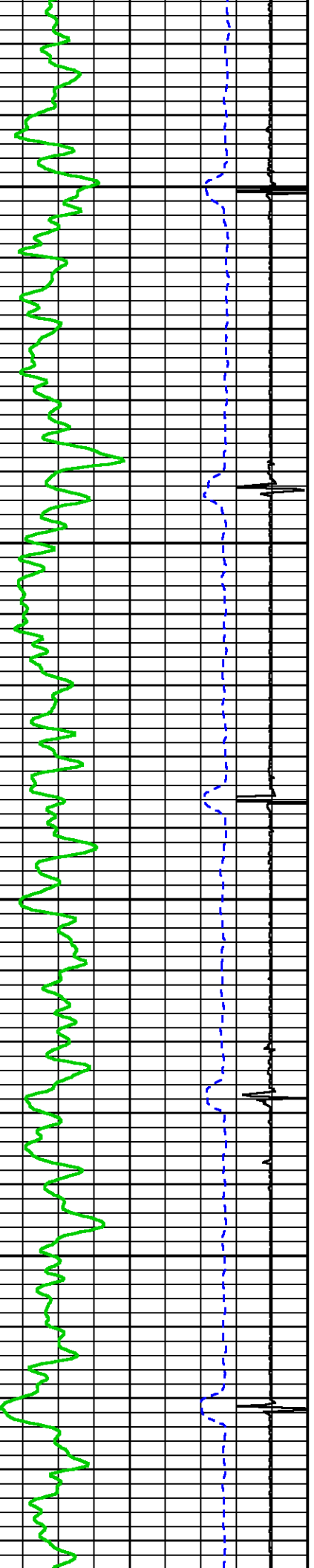


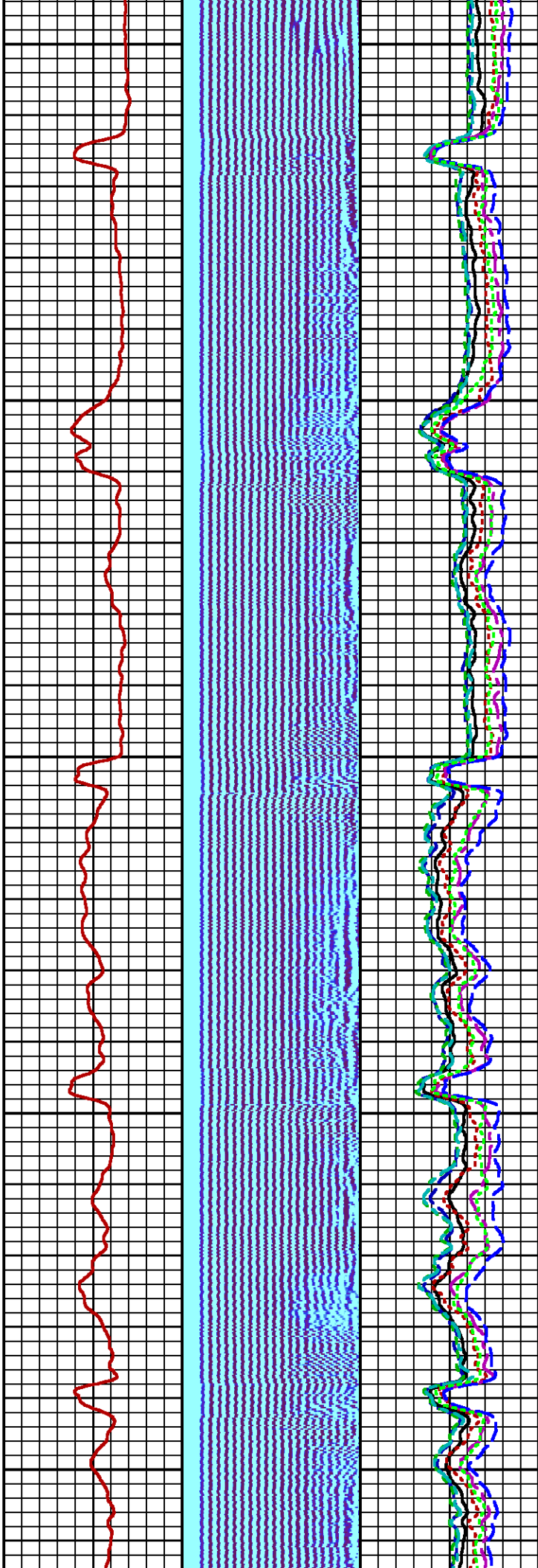
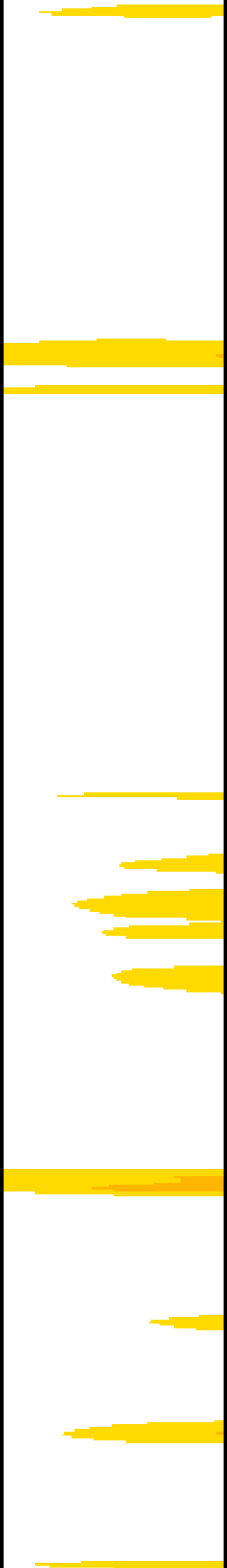




1000

1100

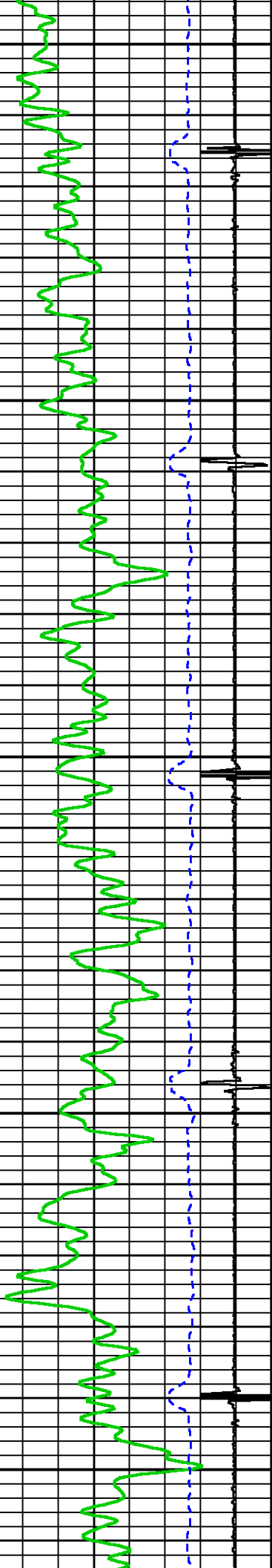


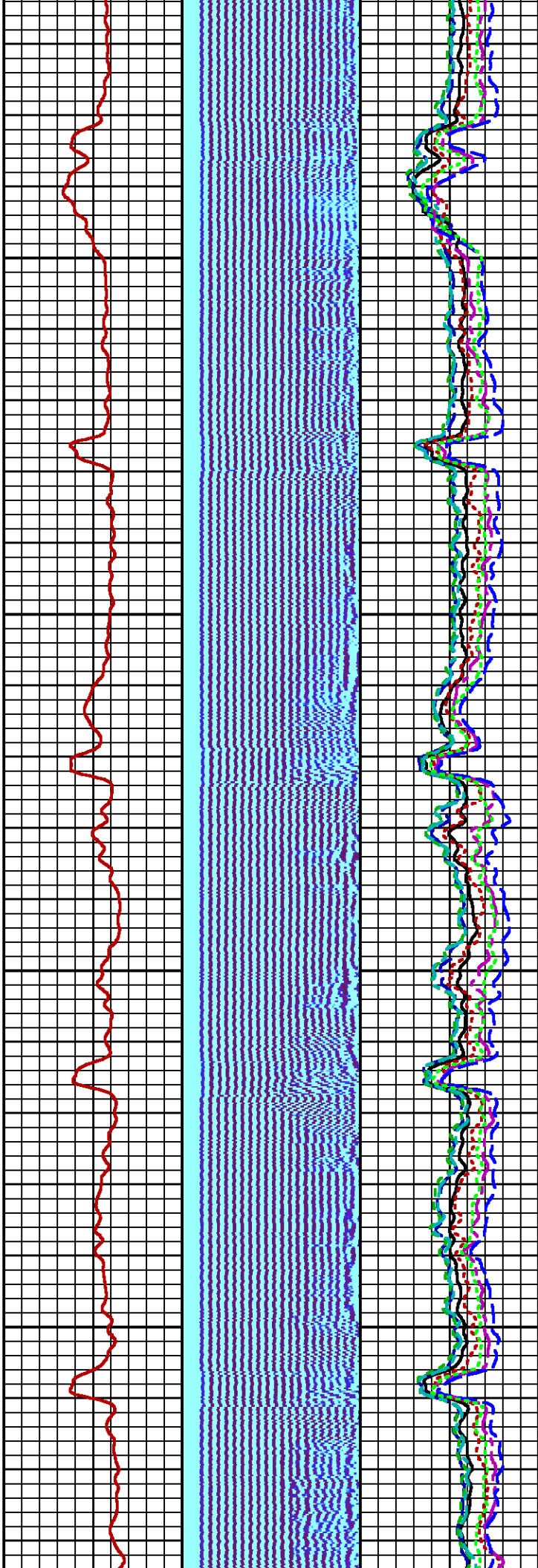


1200

1300

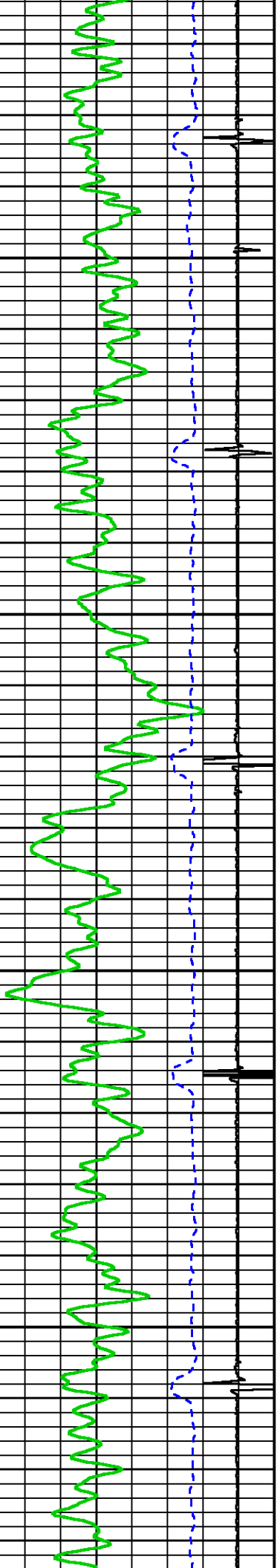
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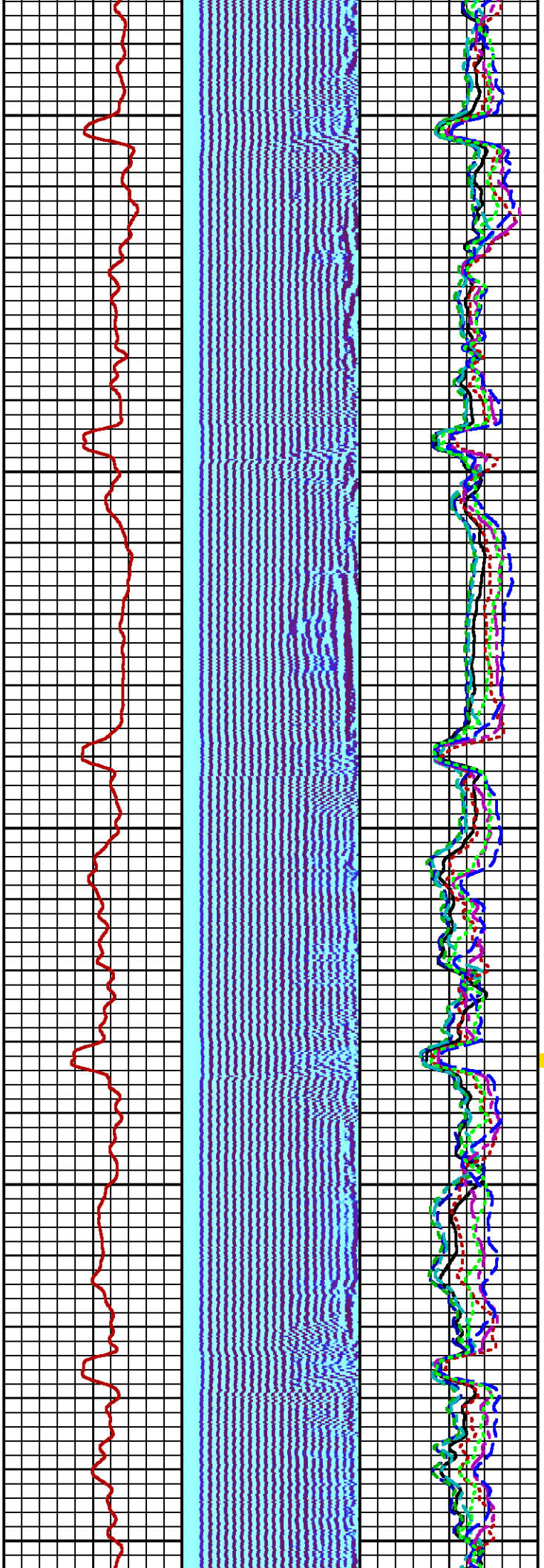




1500

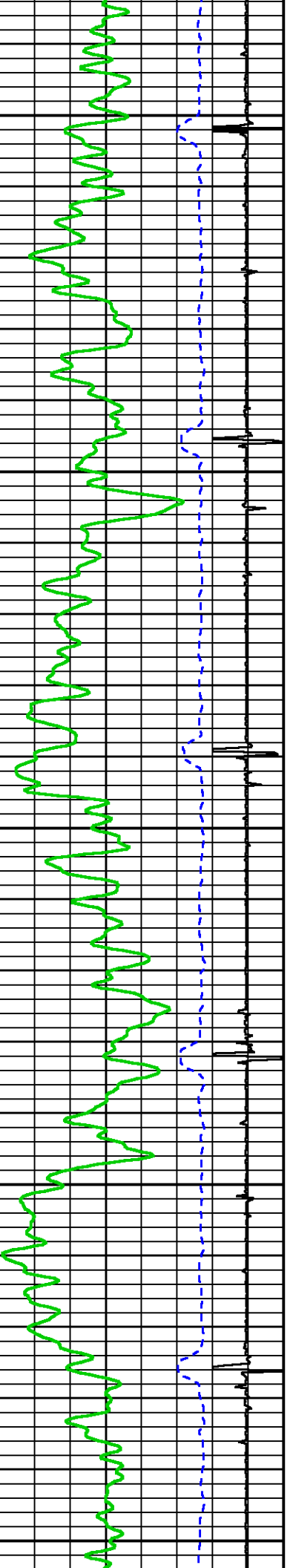
1600

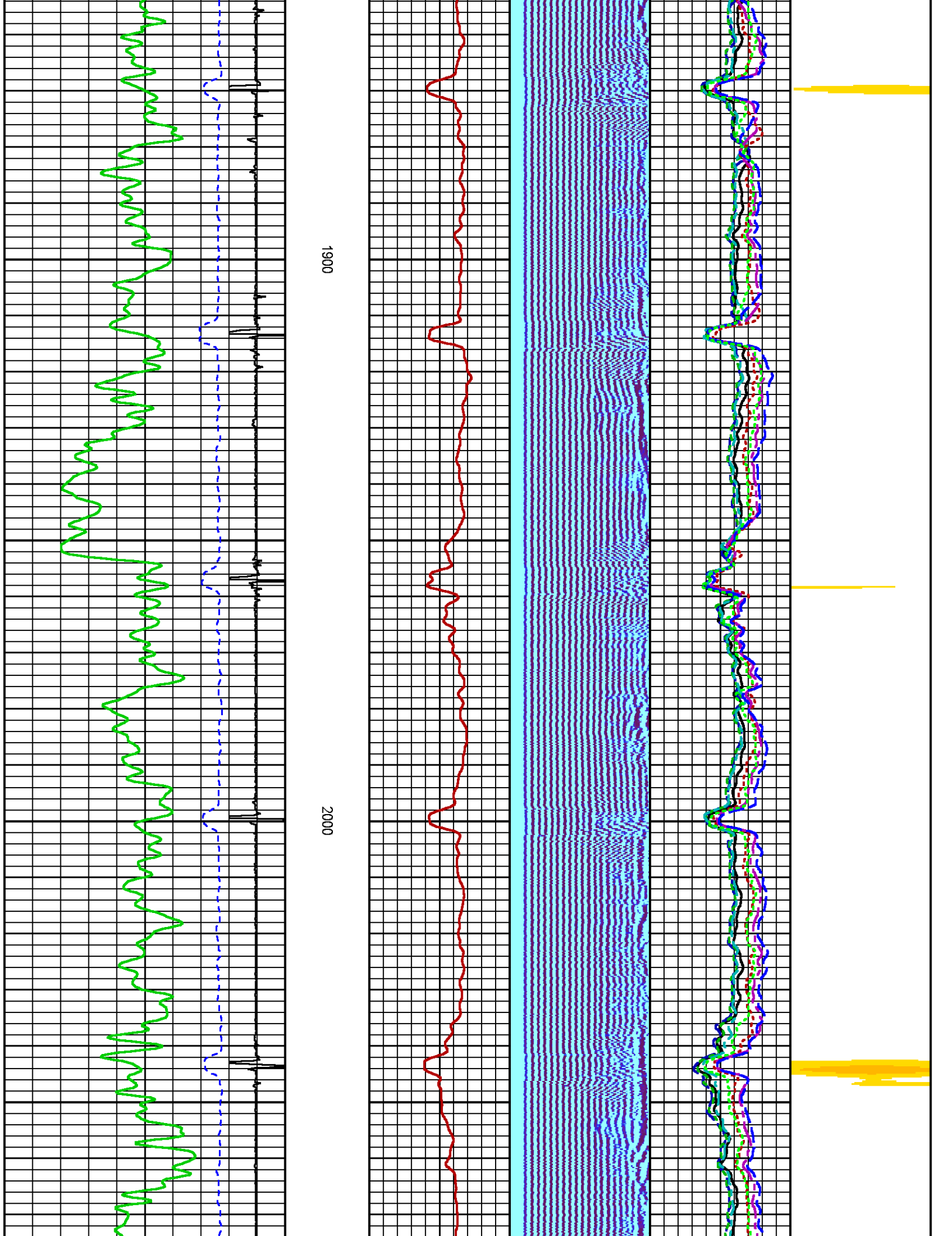


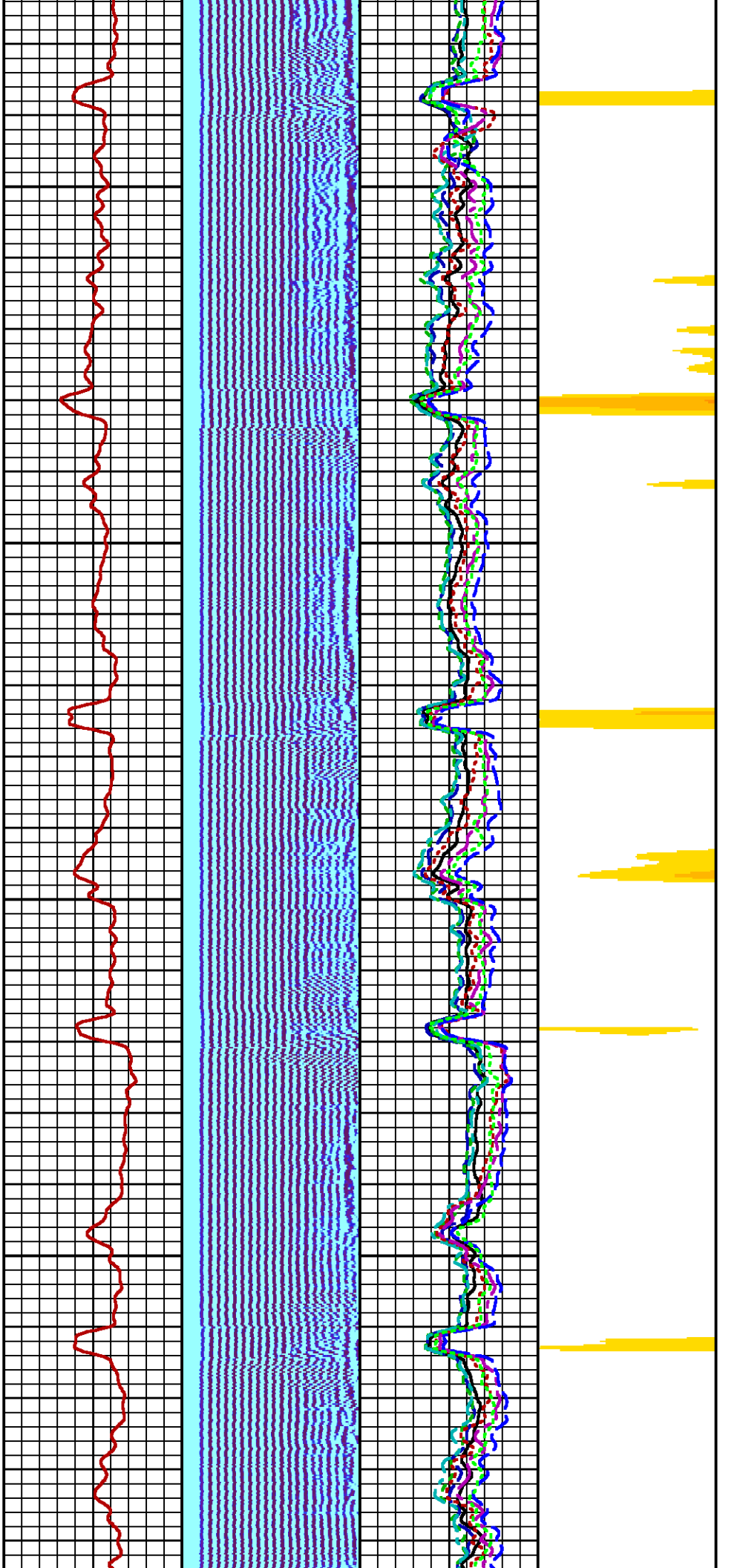


1700

1800

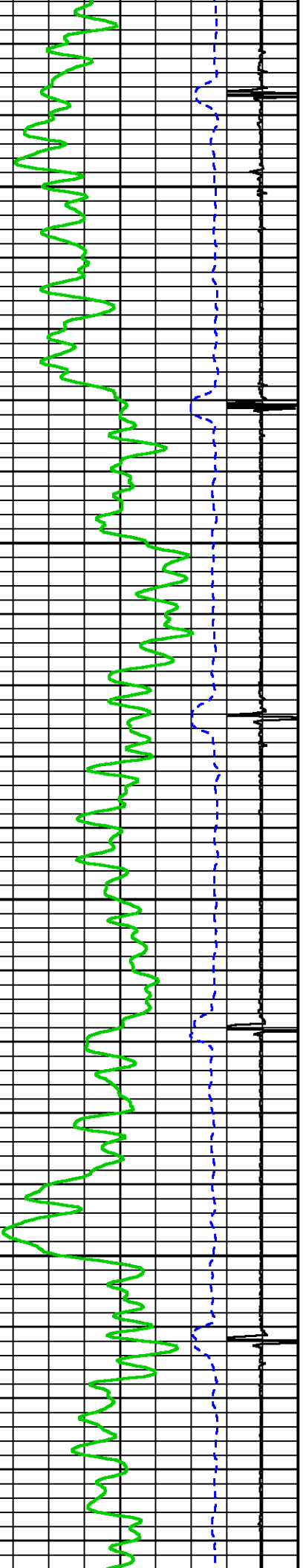


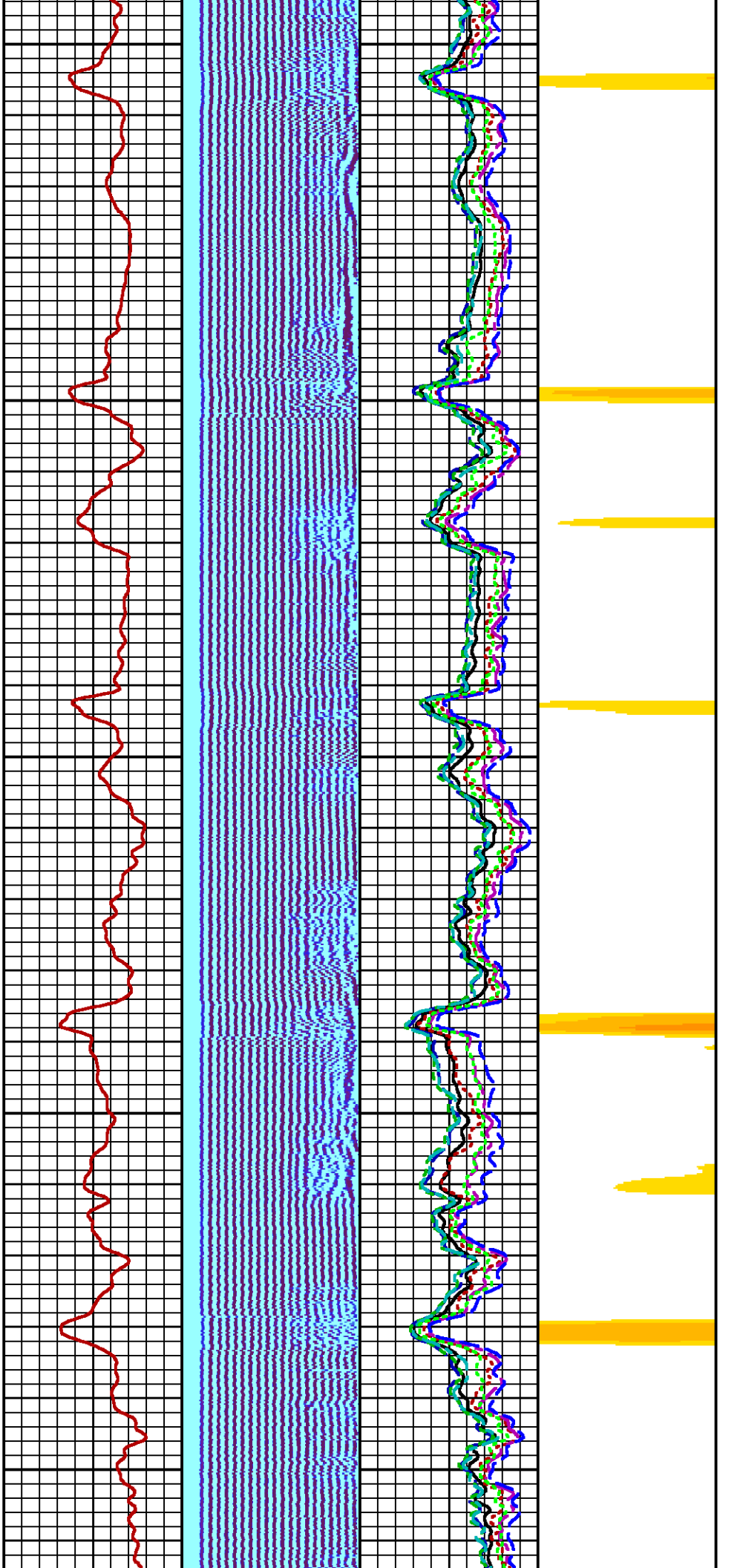




2100

2200

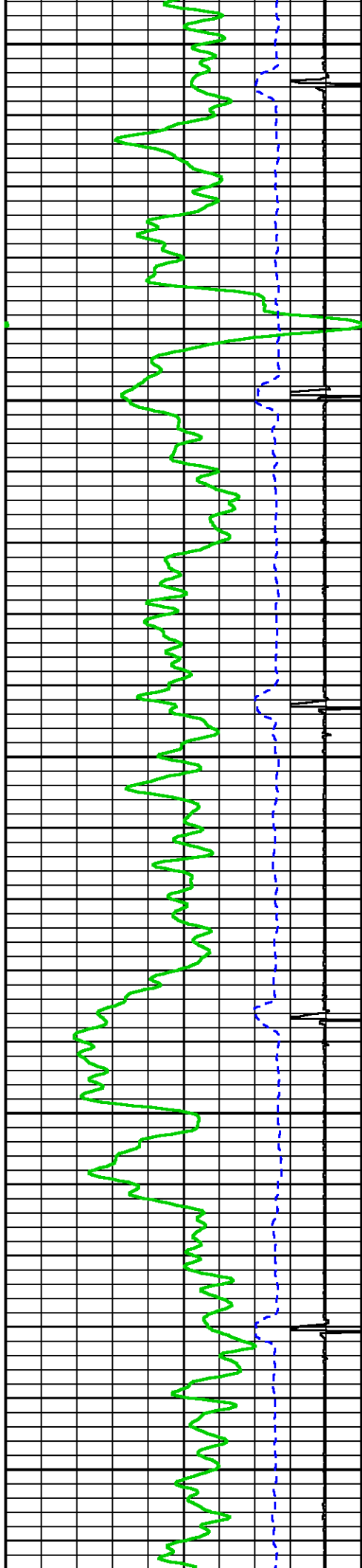


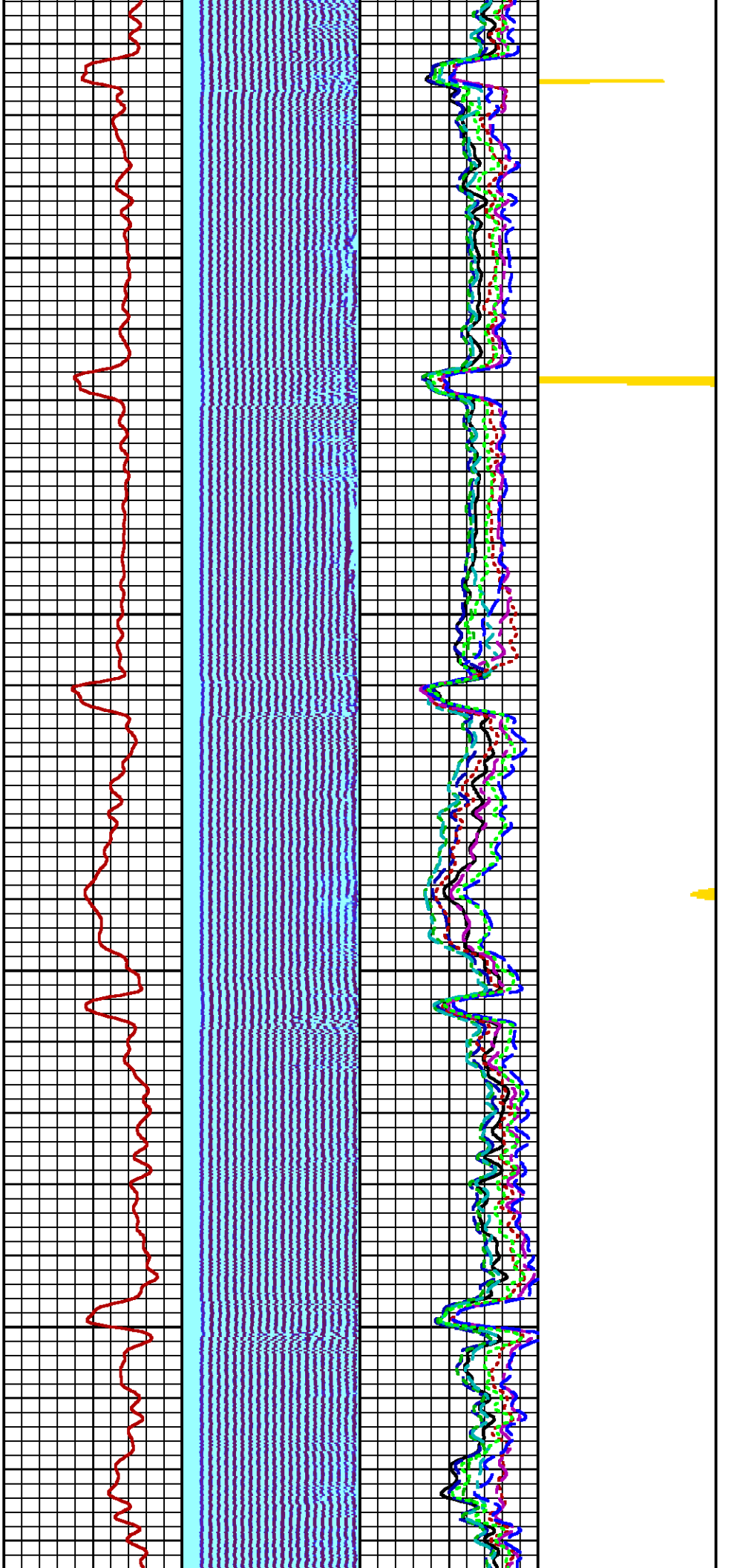


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2400

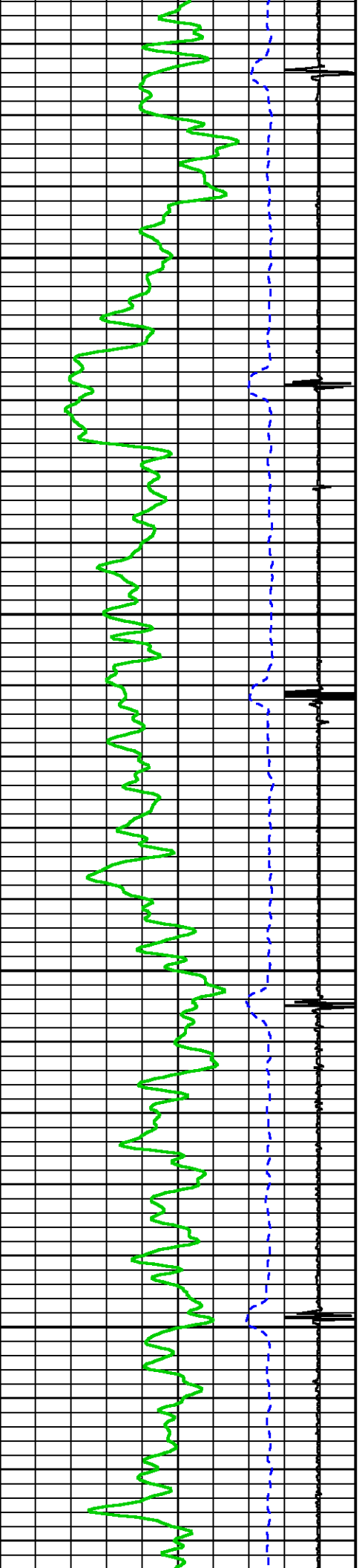
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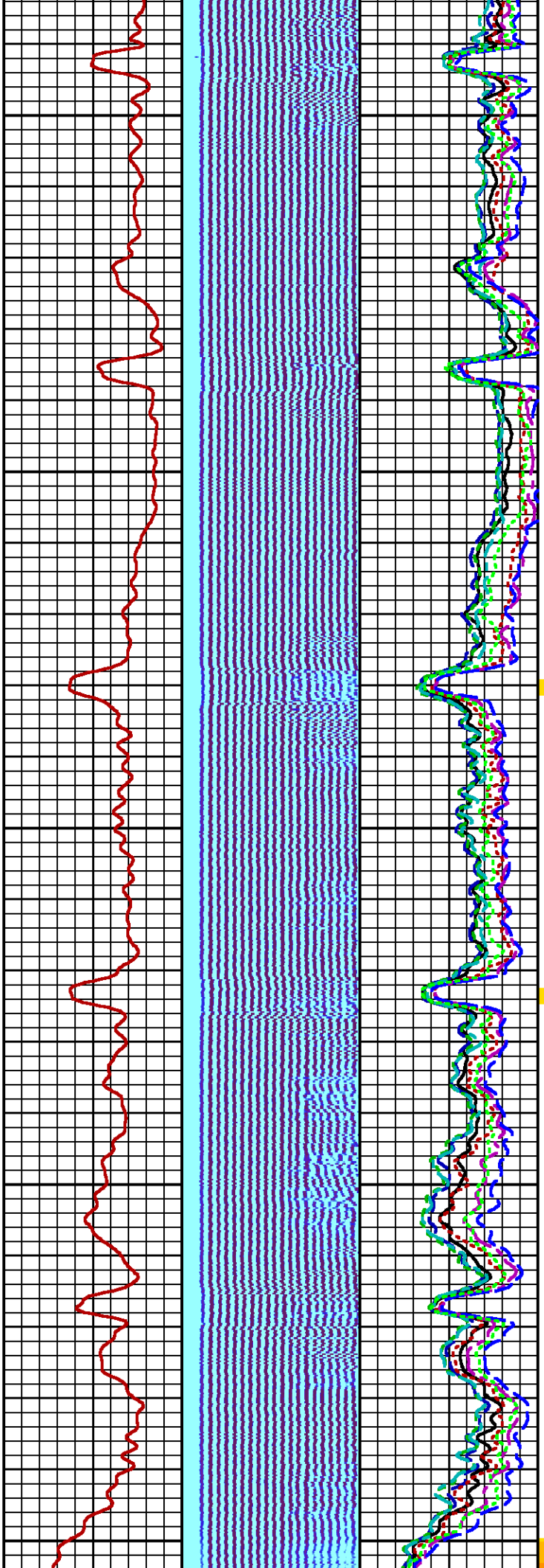




2600

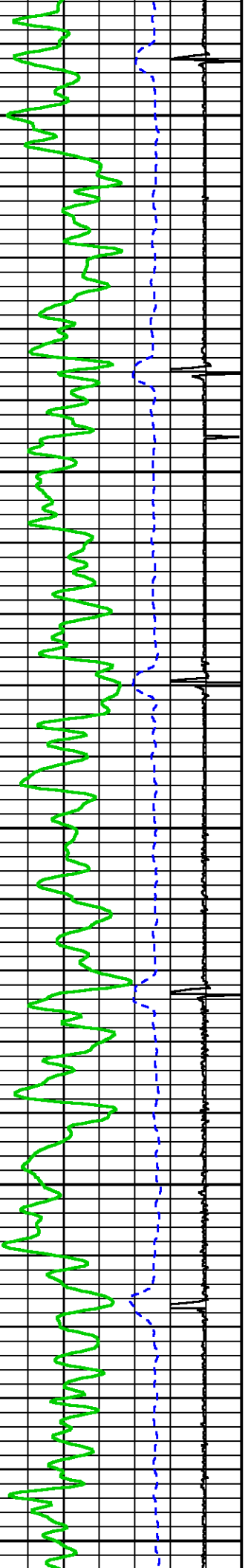
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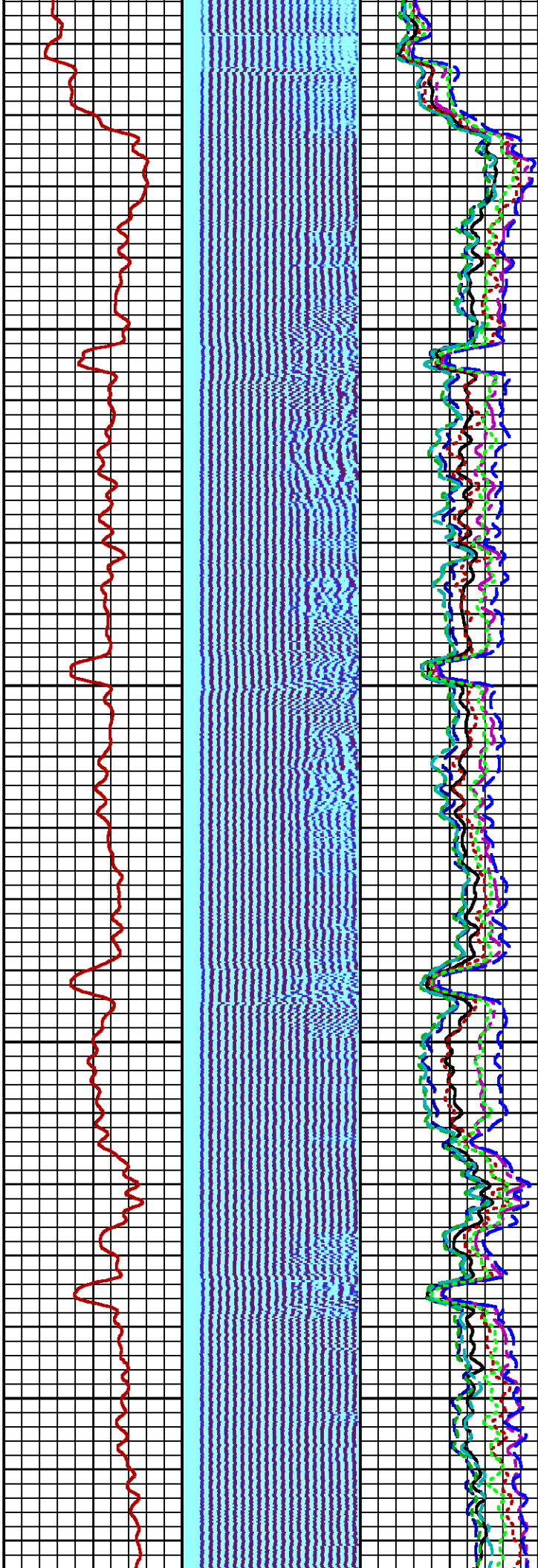
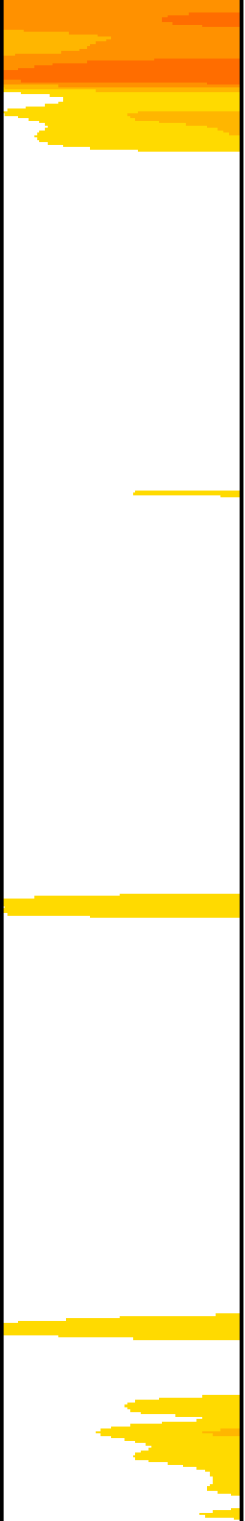




2800

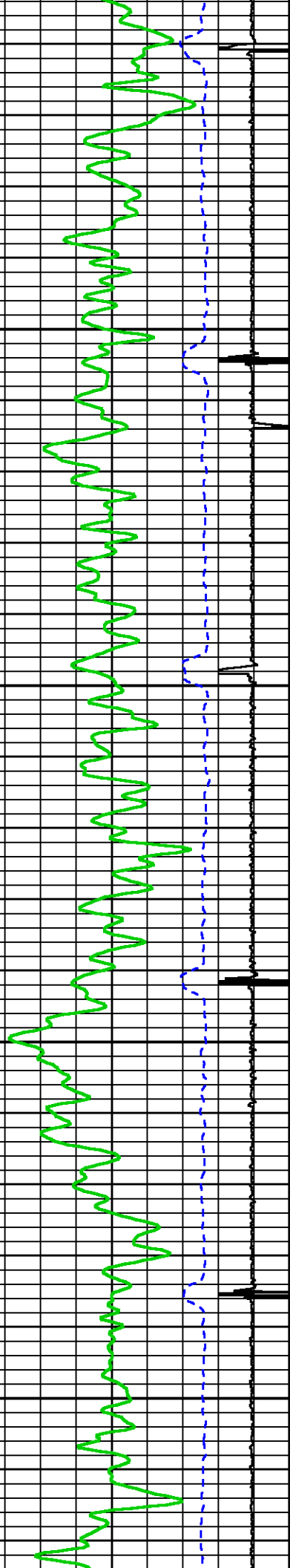
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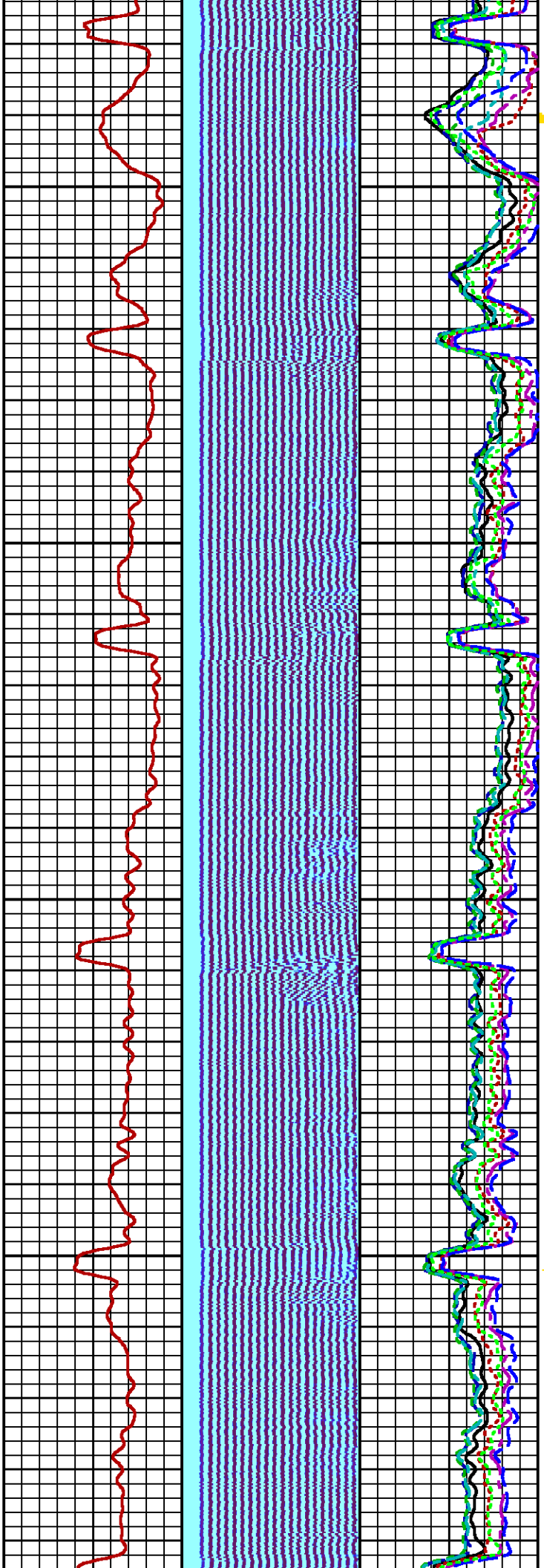




3000

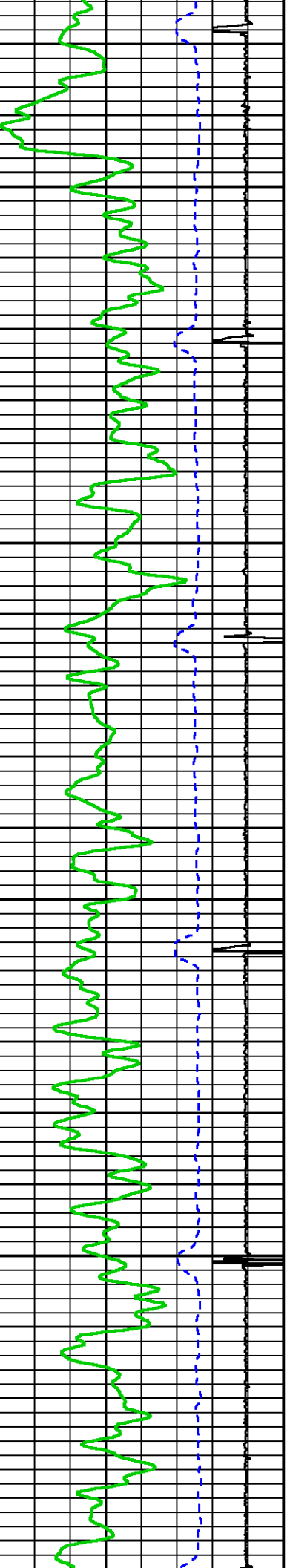
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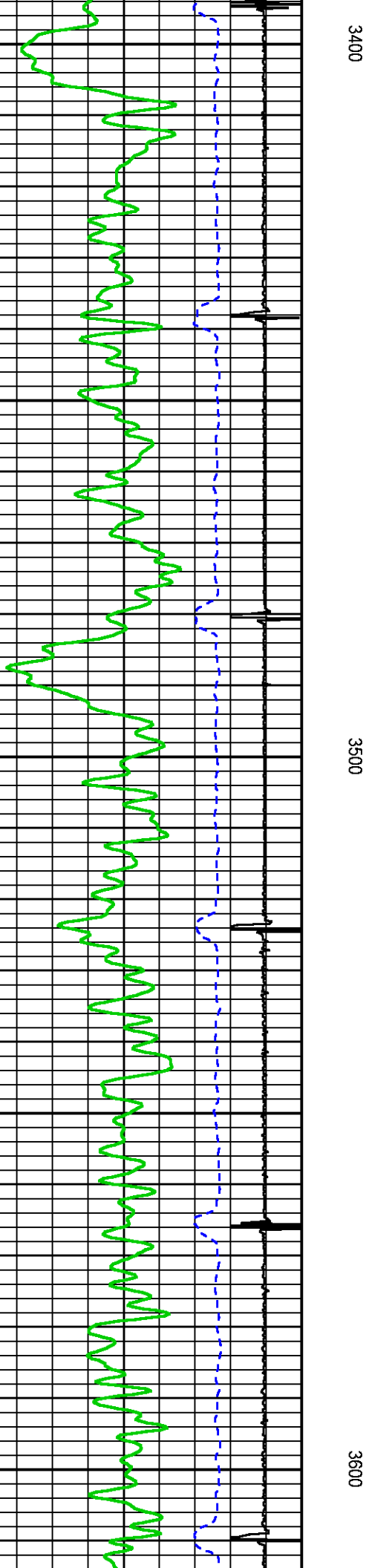
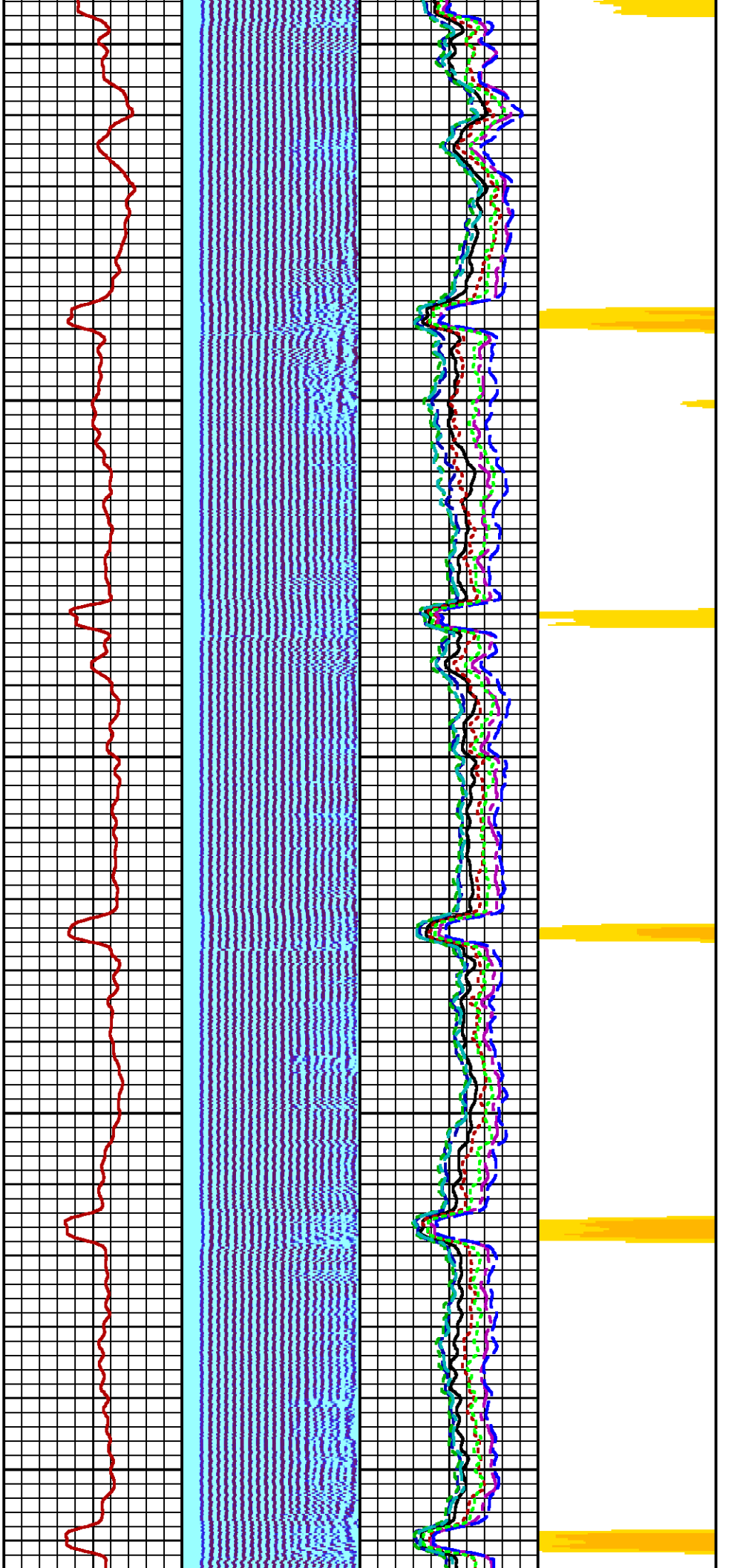


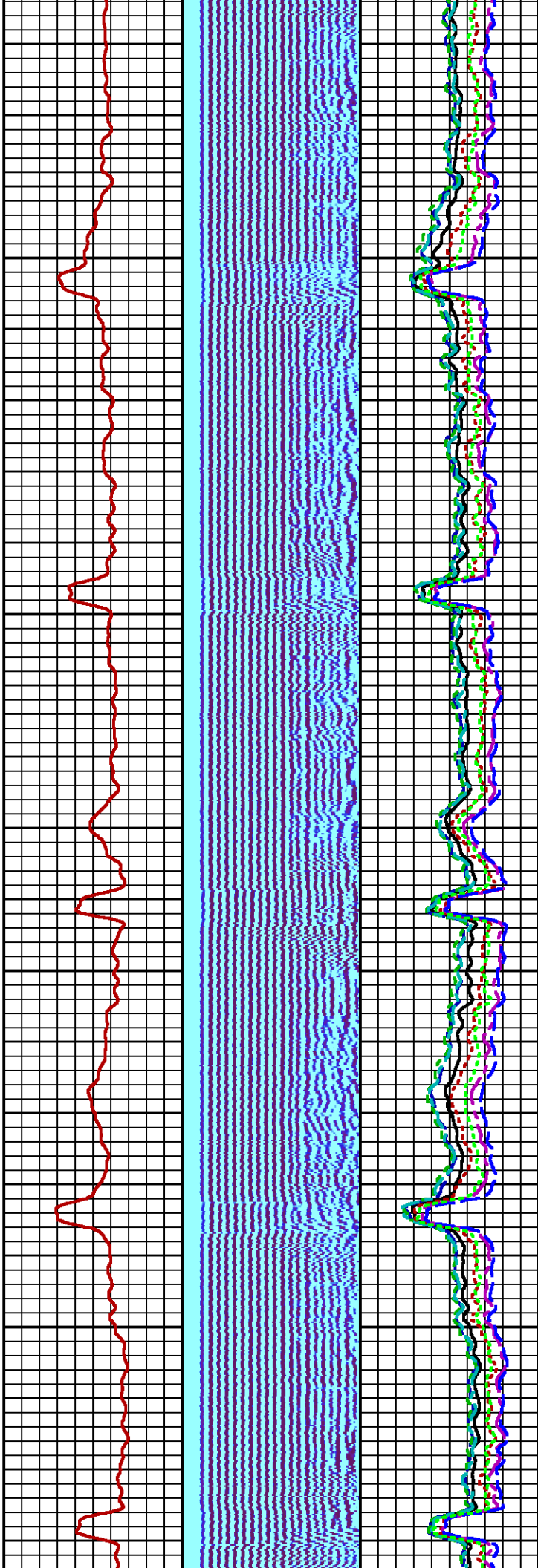
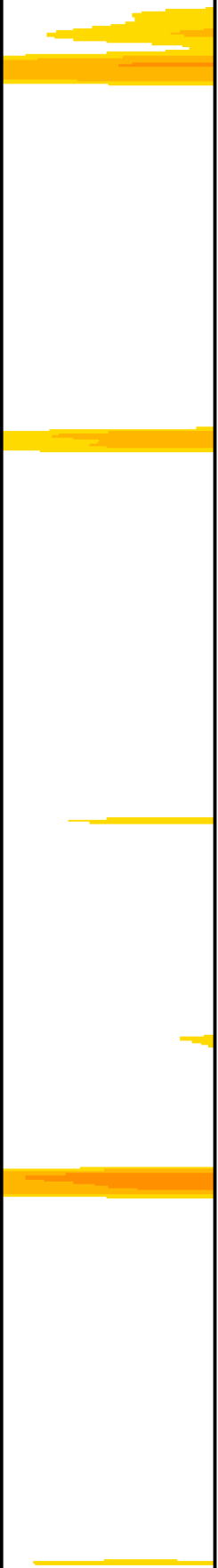


3200

3300

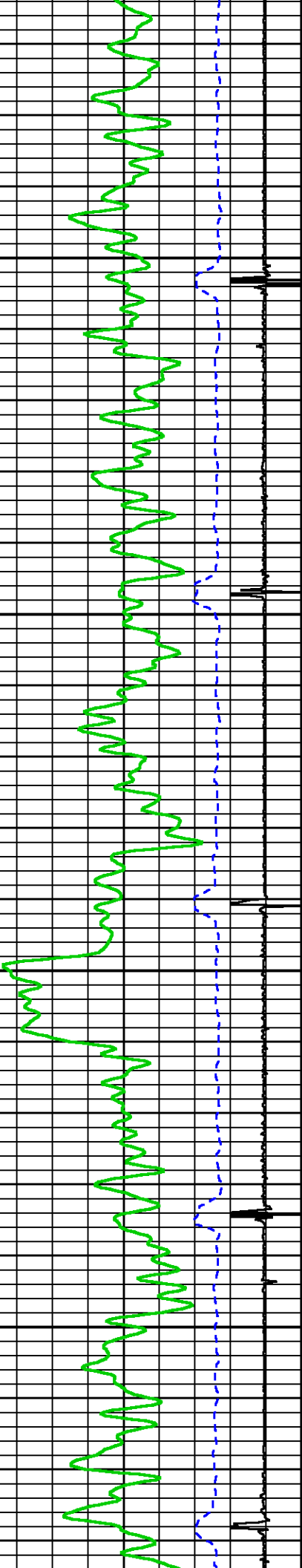


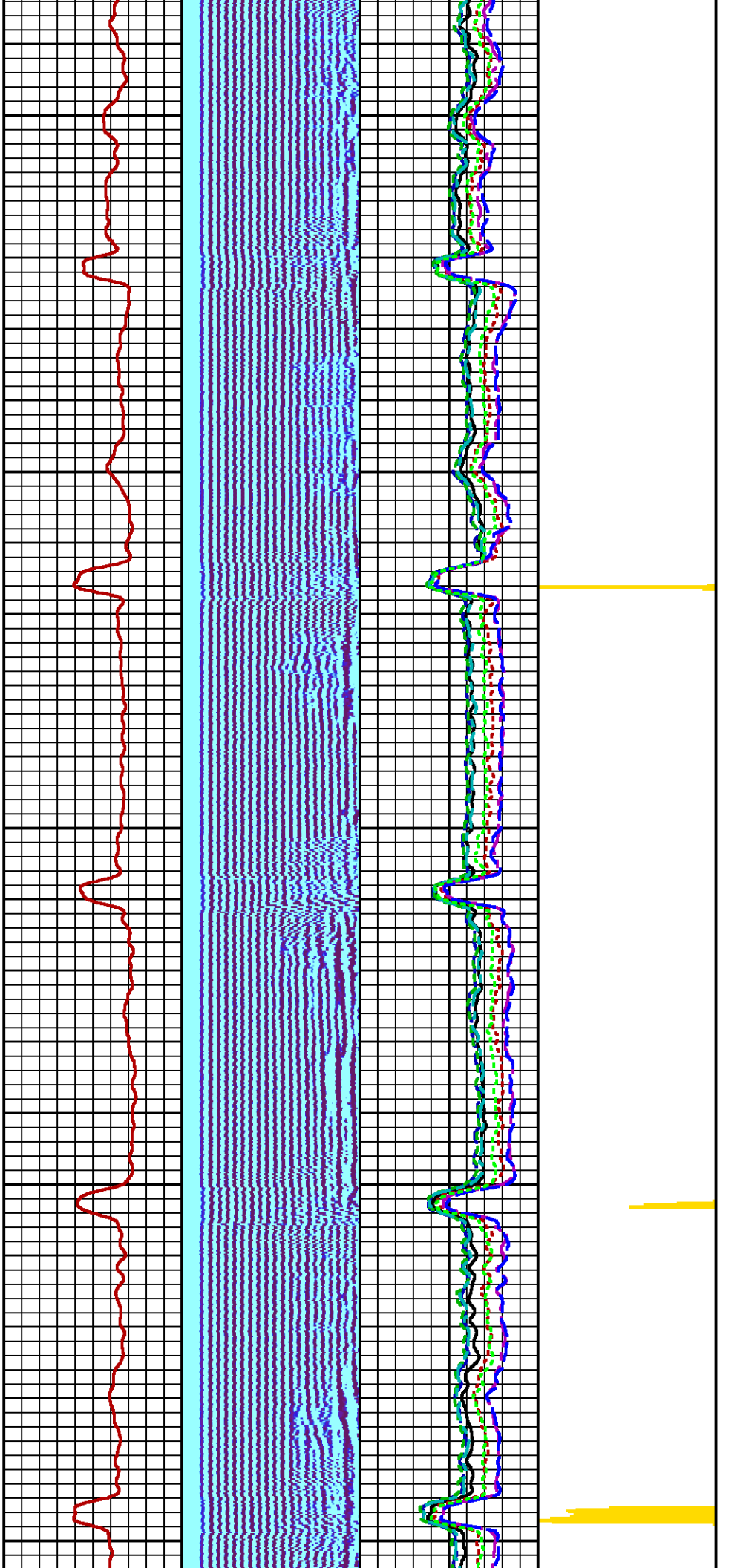




3700

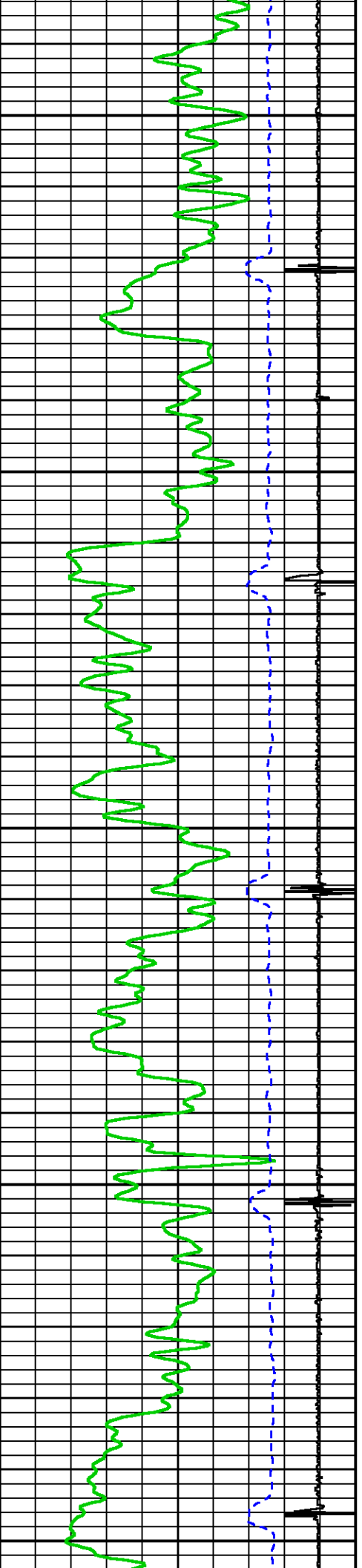
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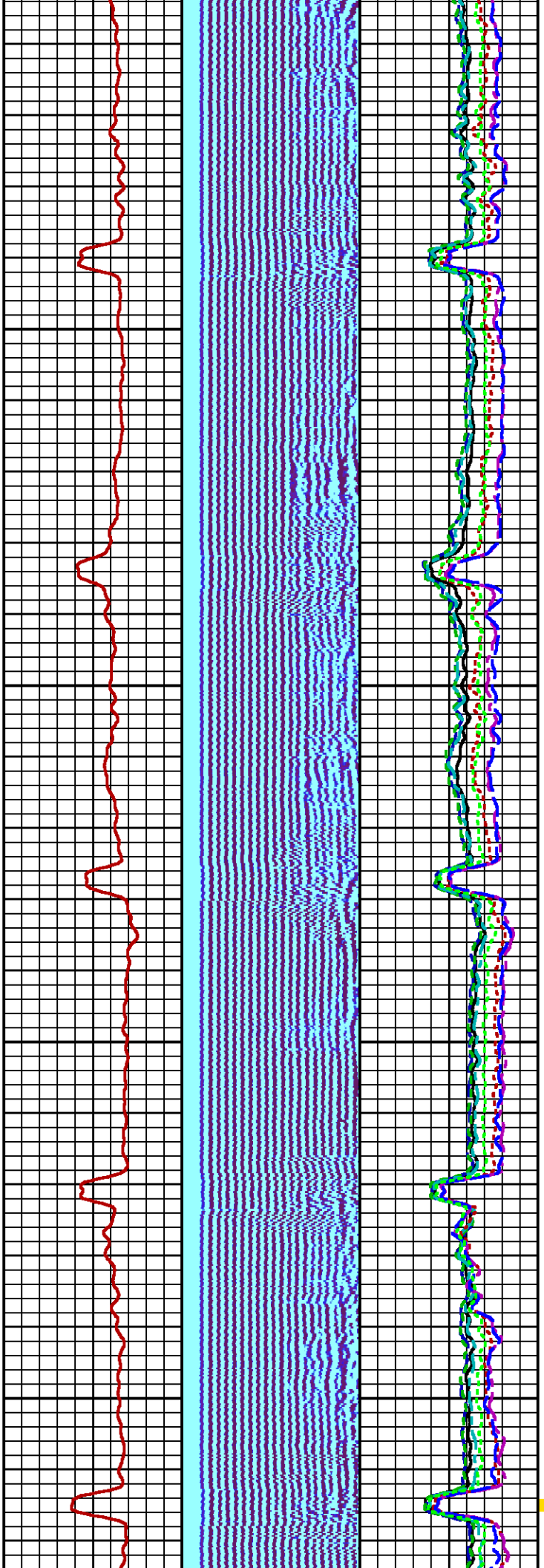




3900

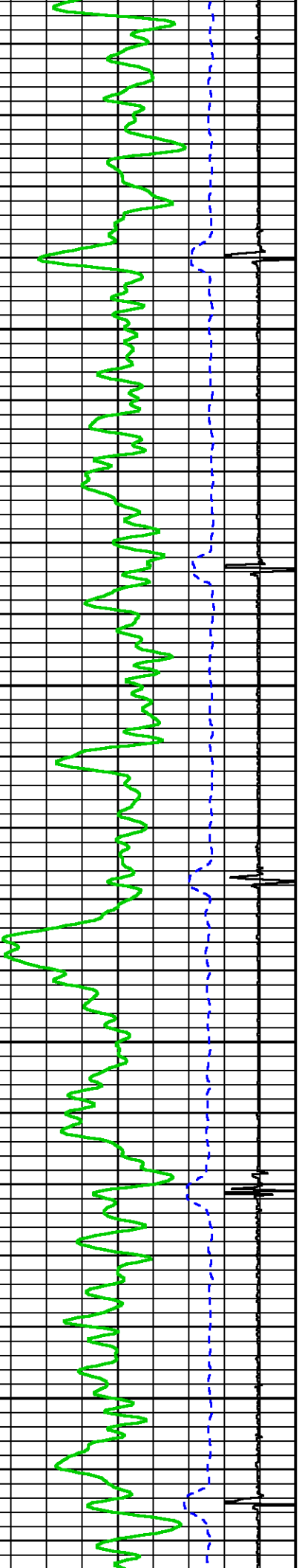
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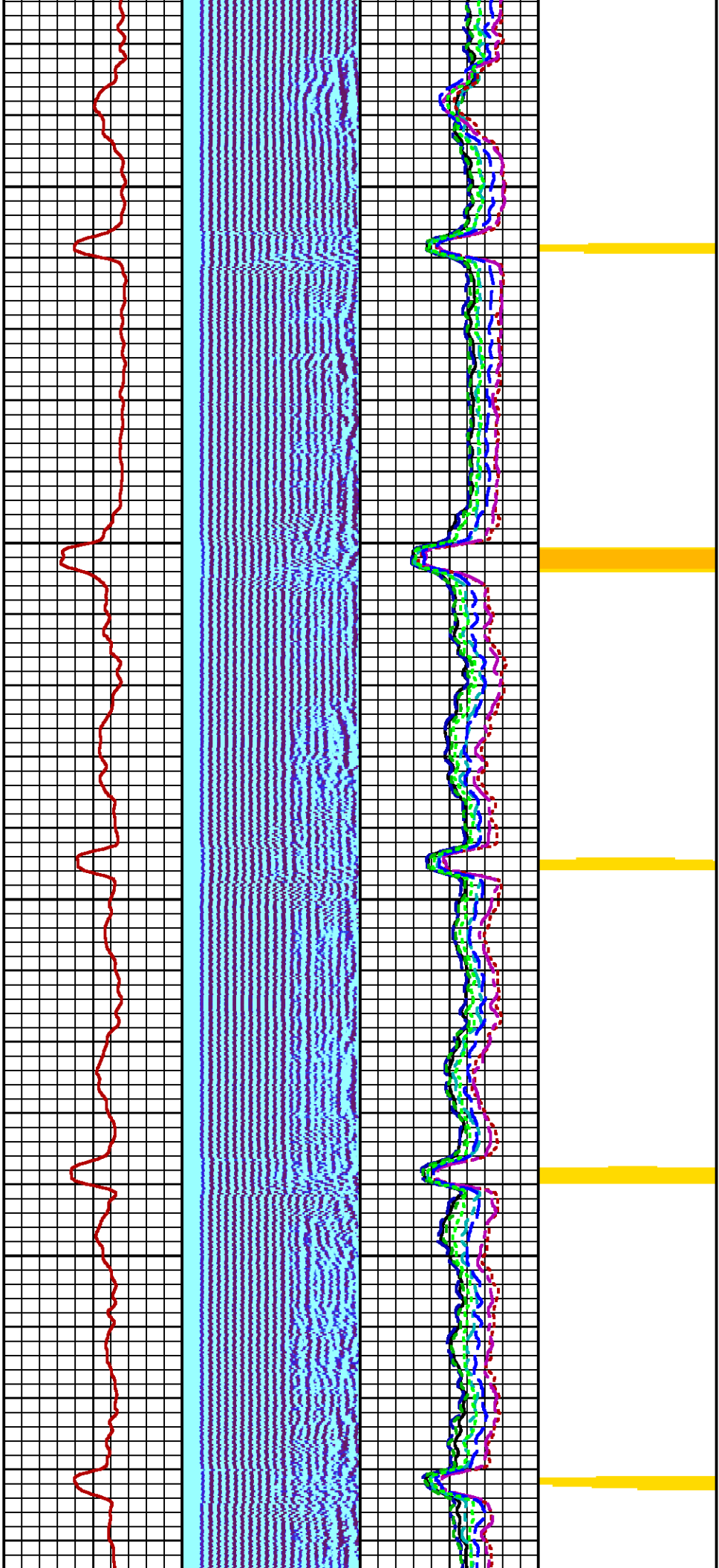




4100

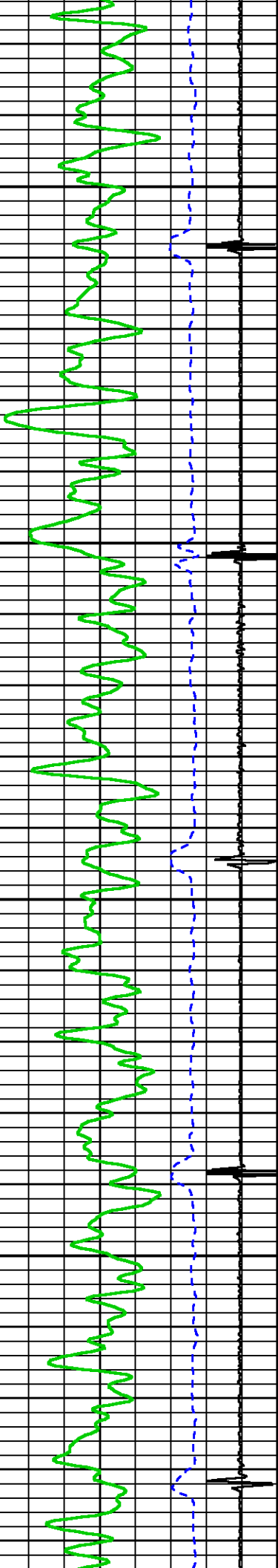
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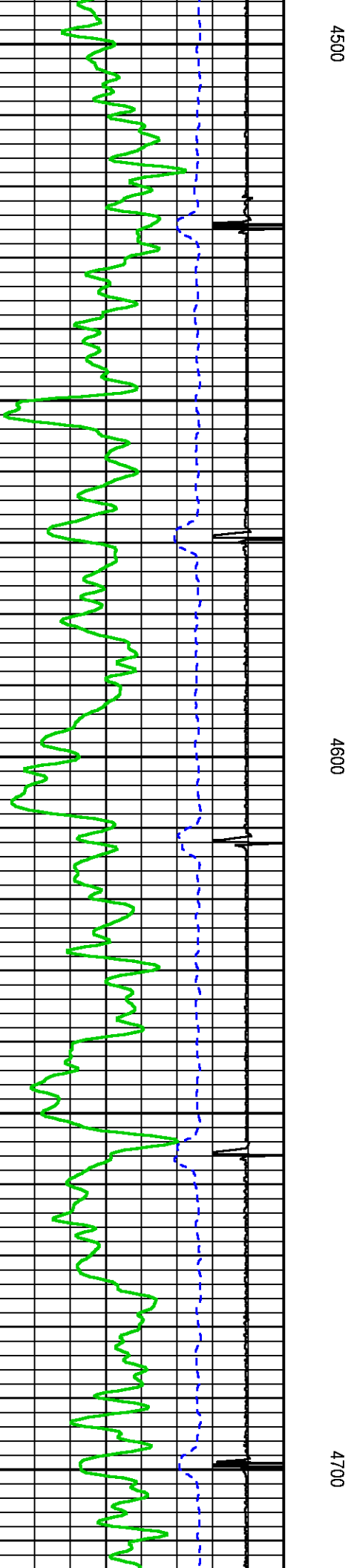
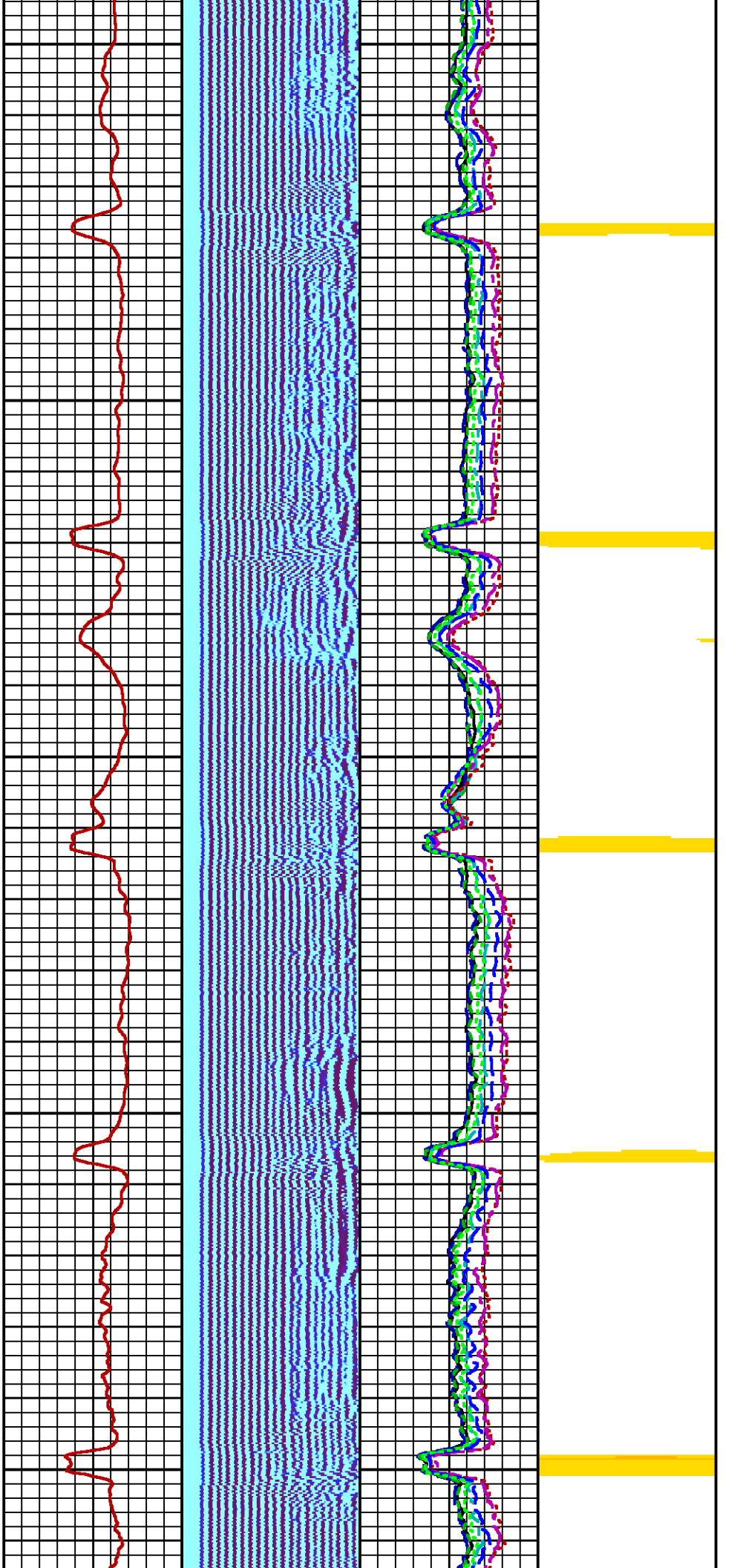


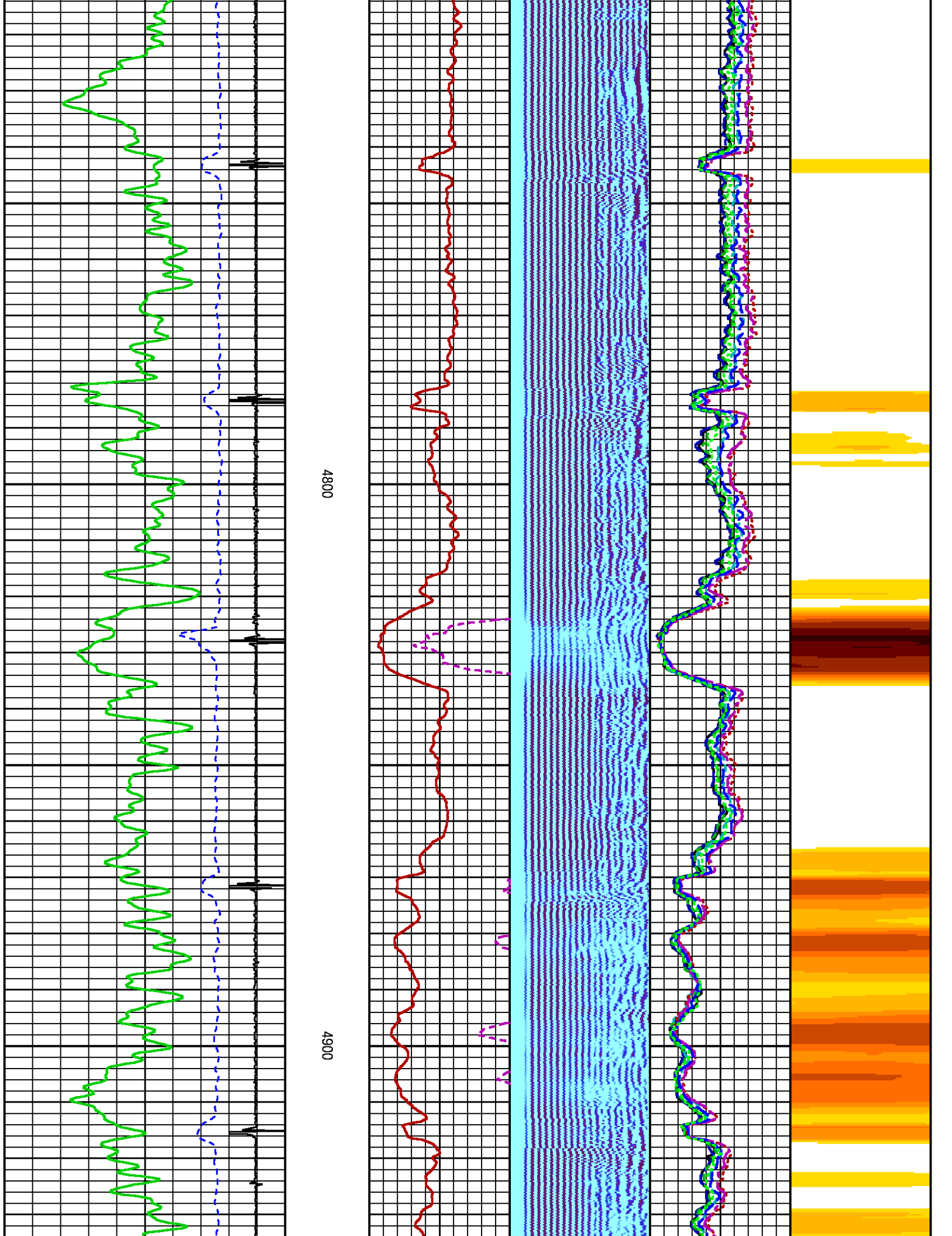


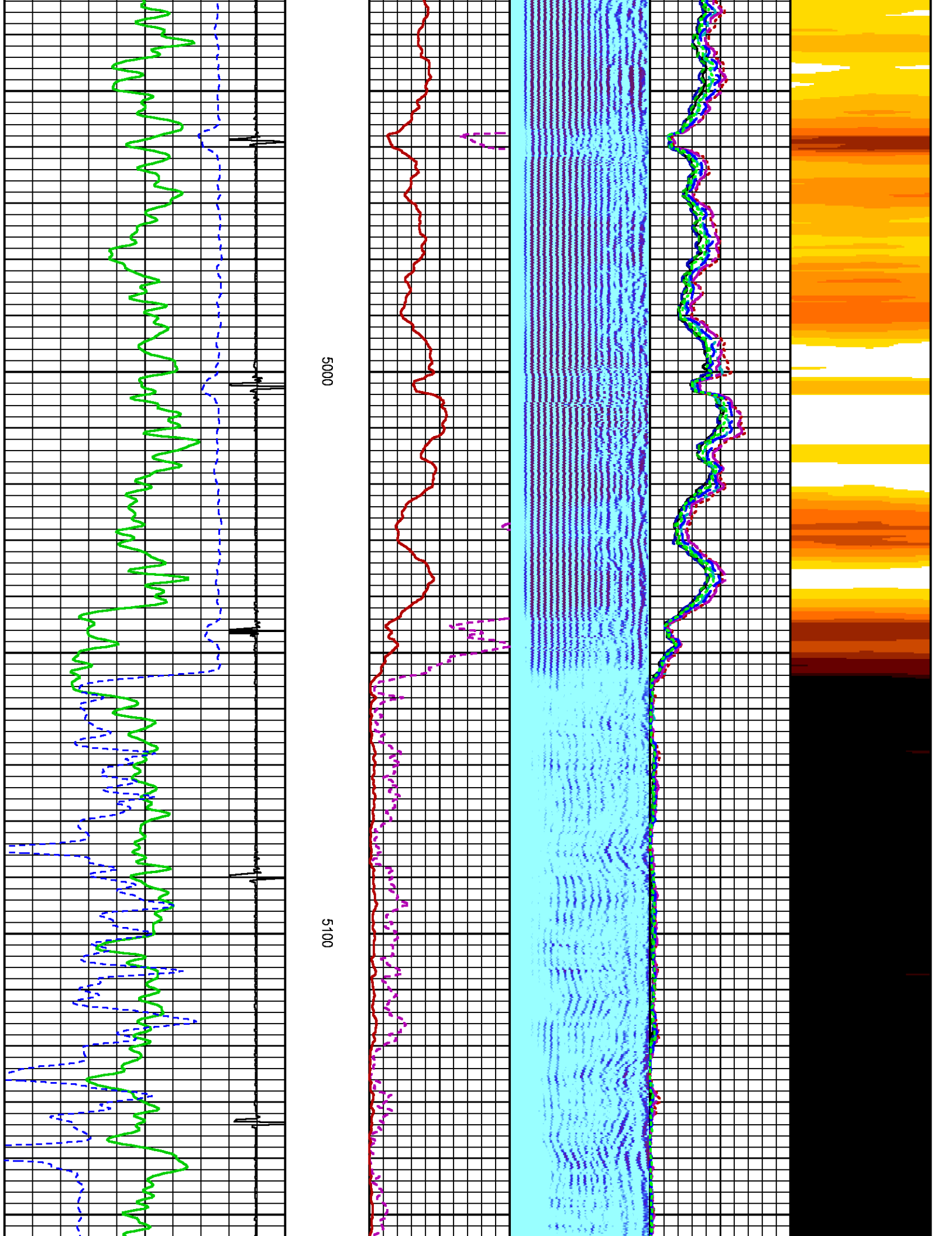
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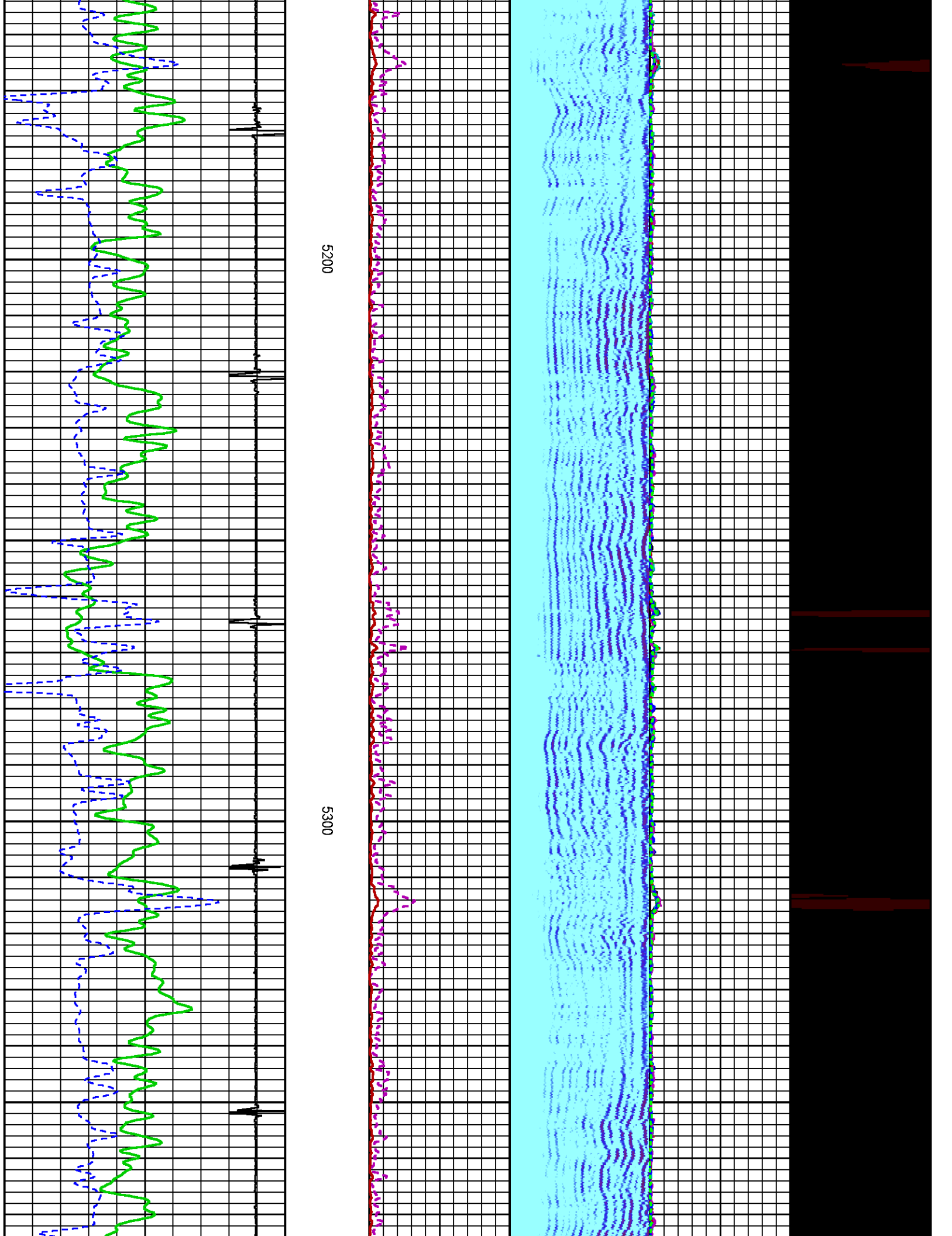
4400





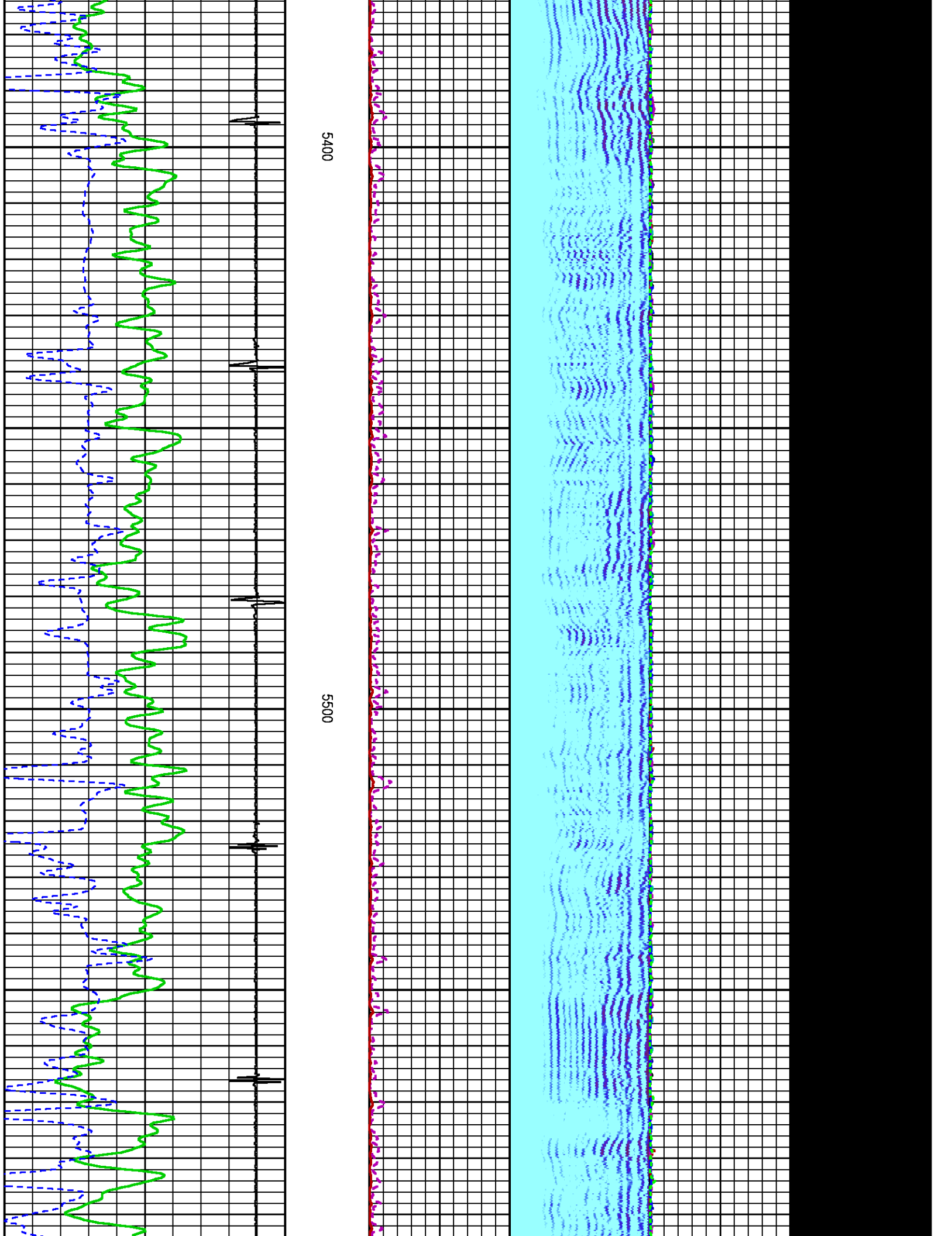


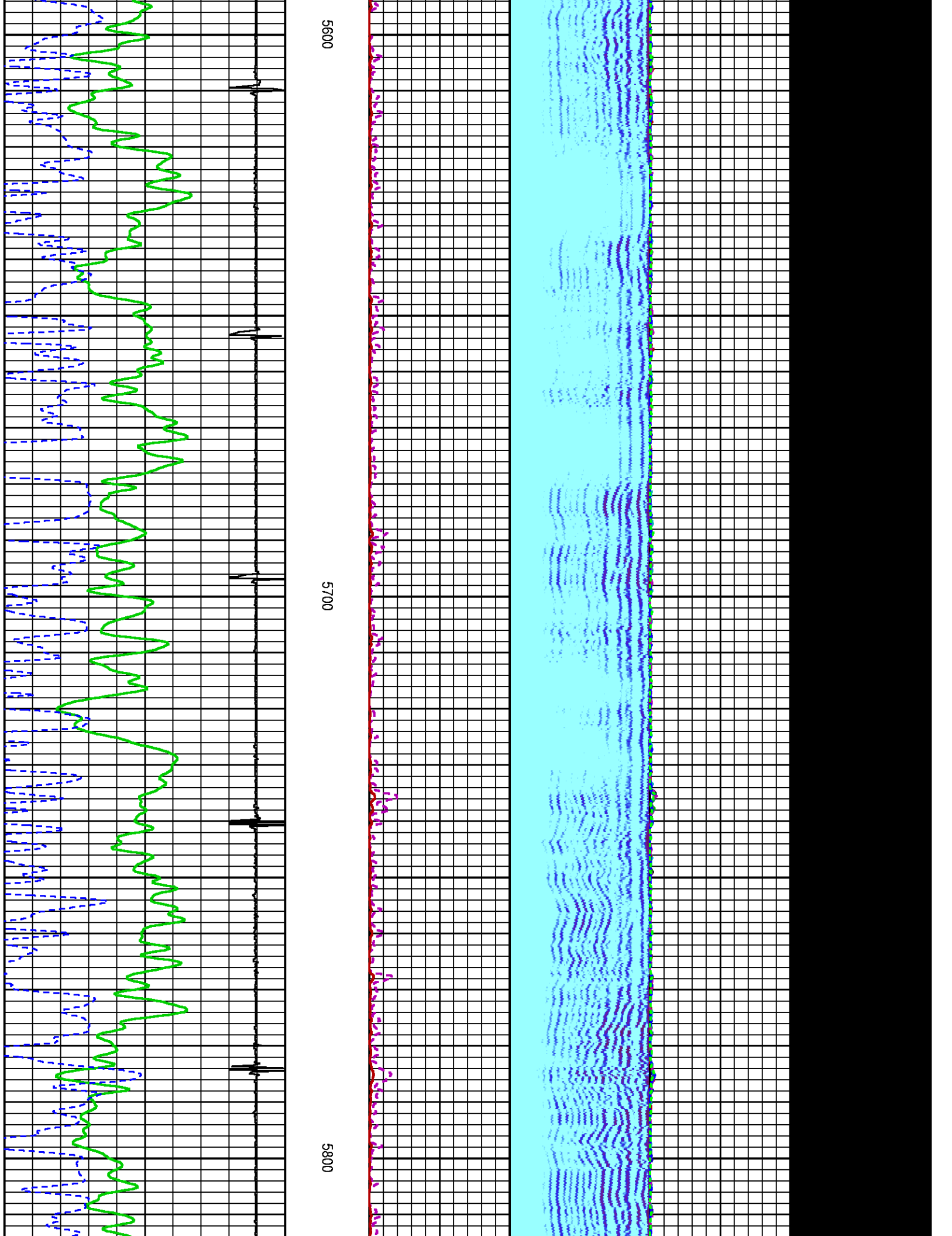


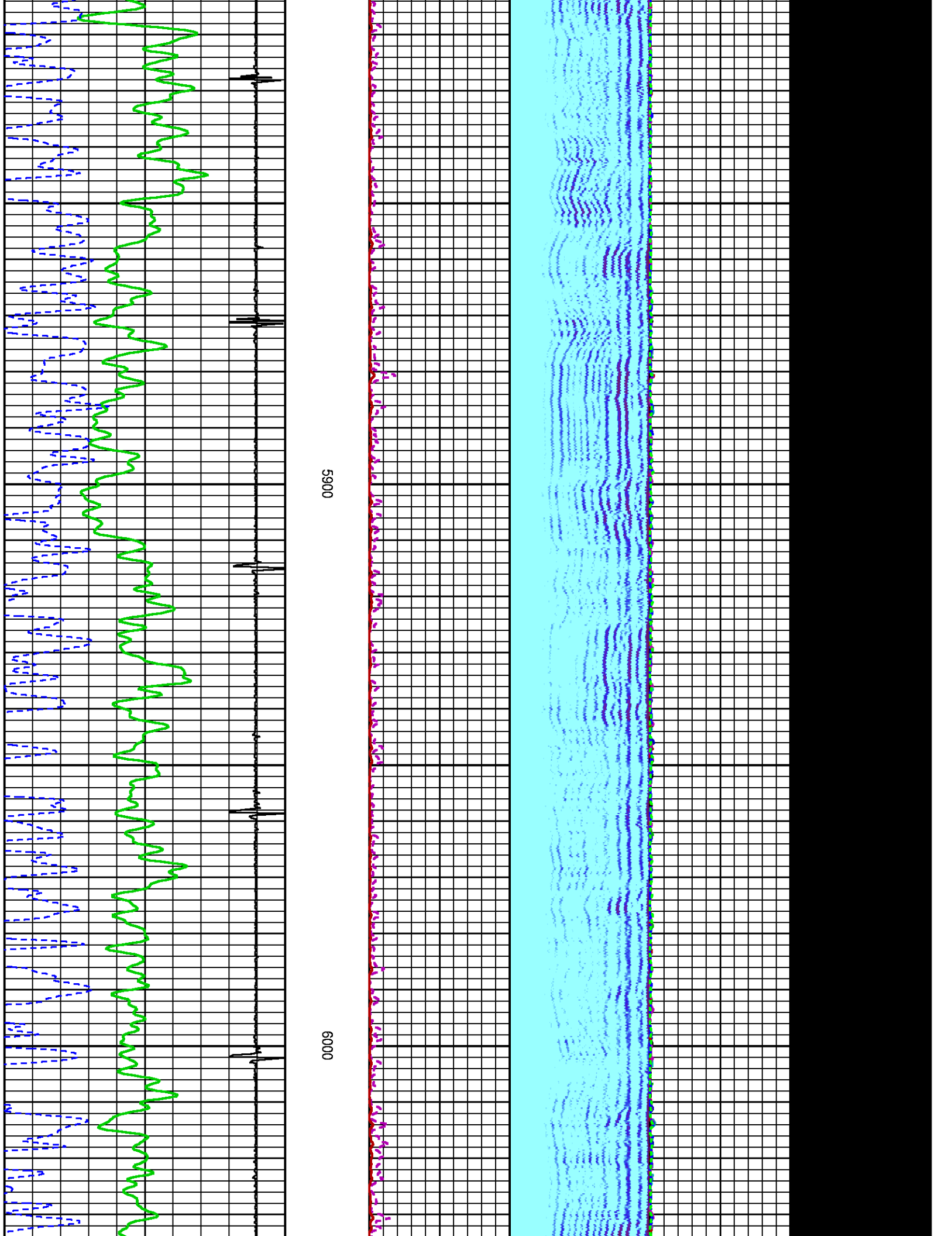


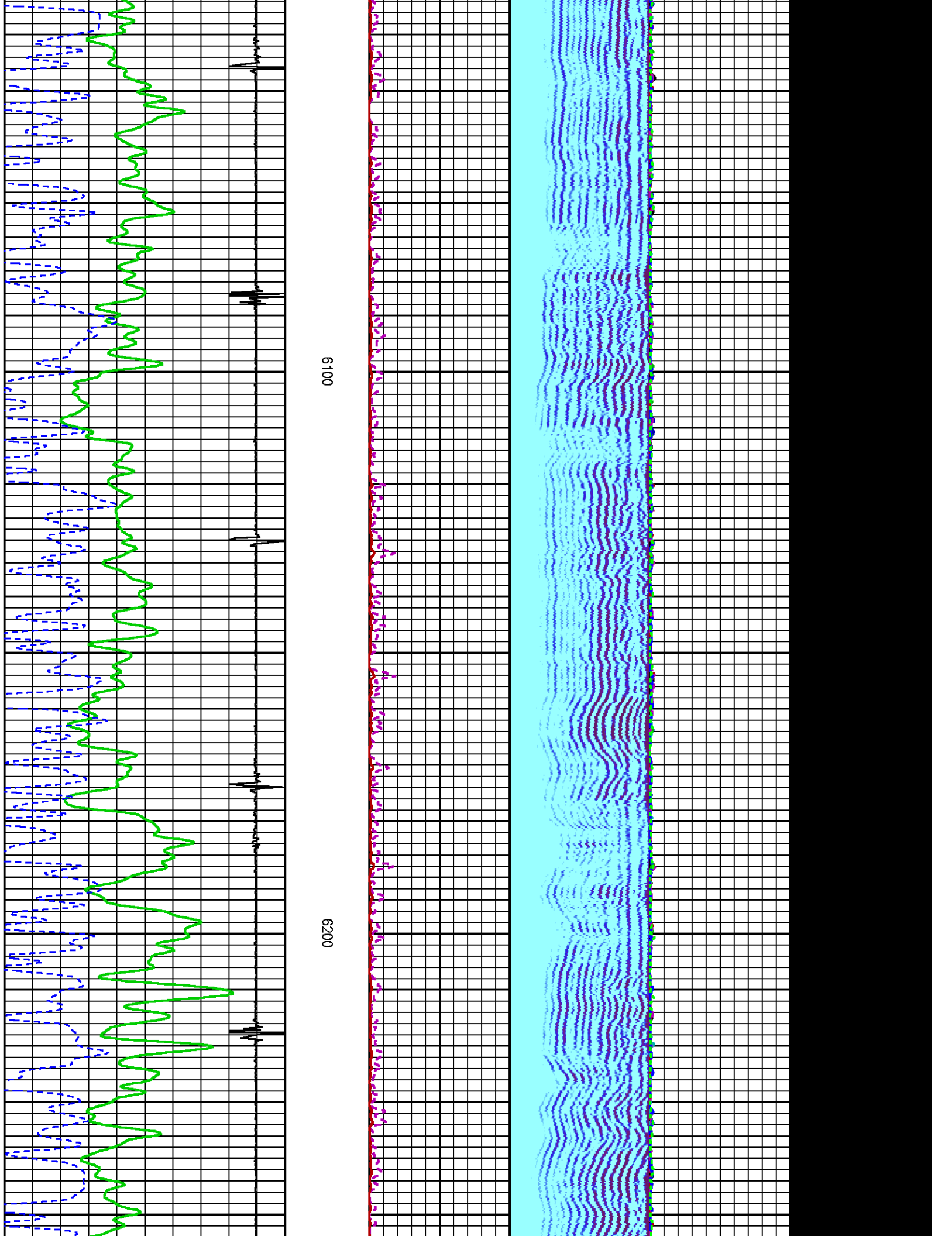
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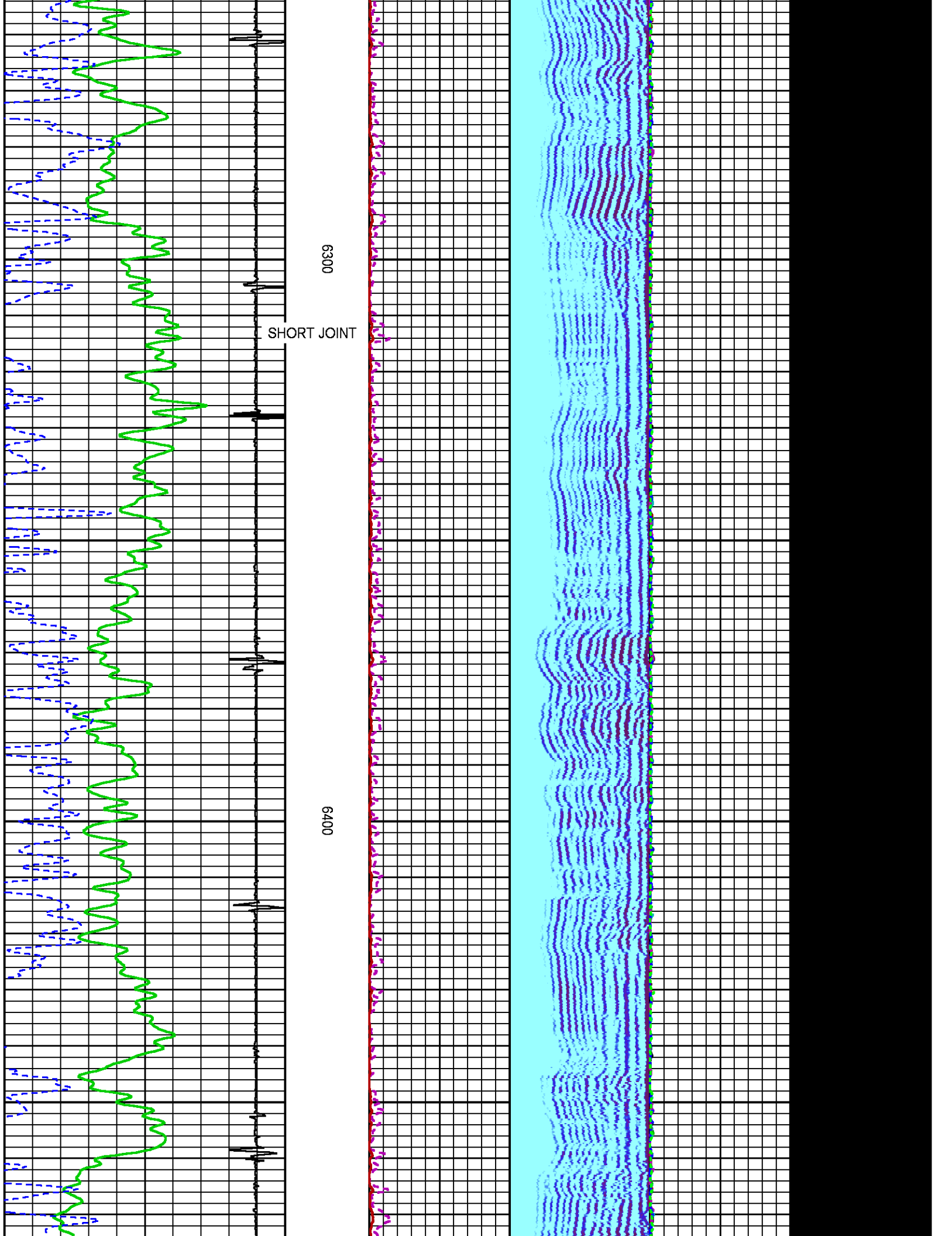
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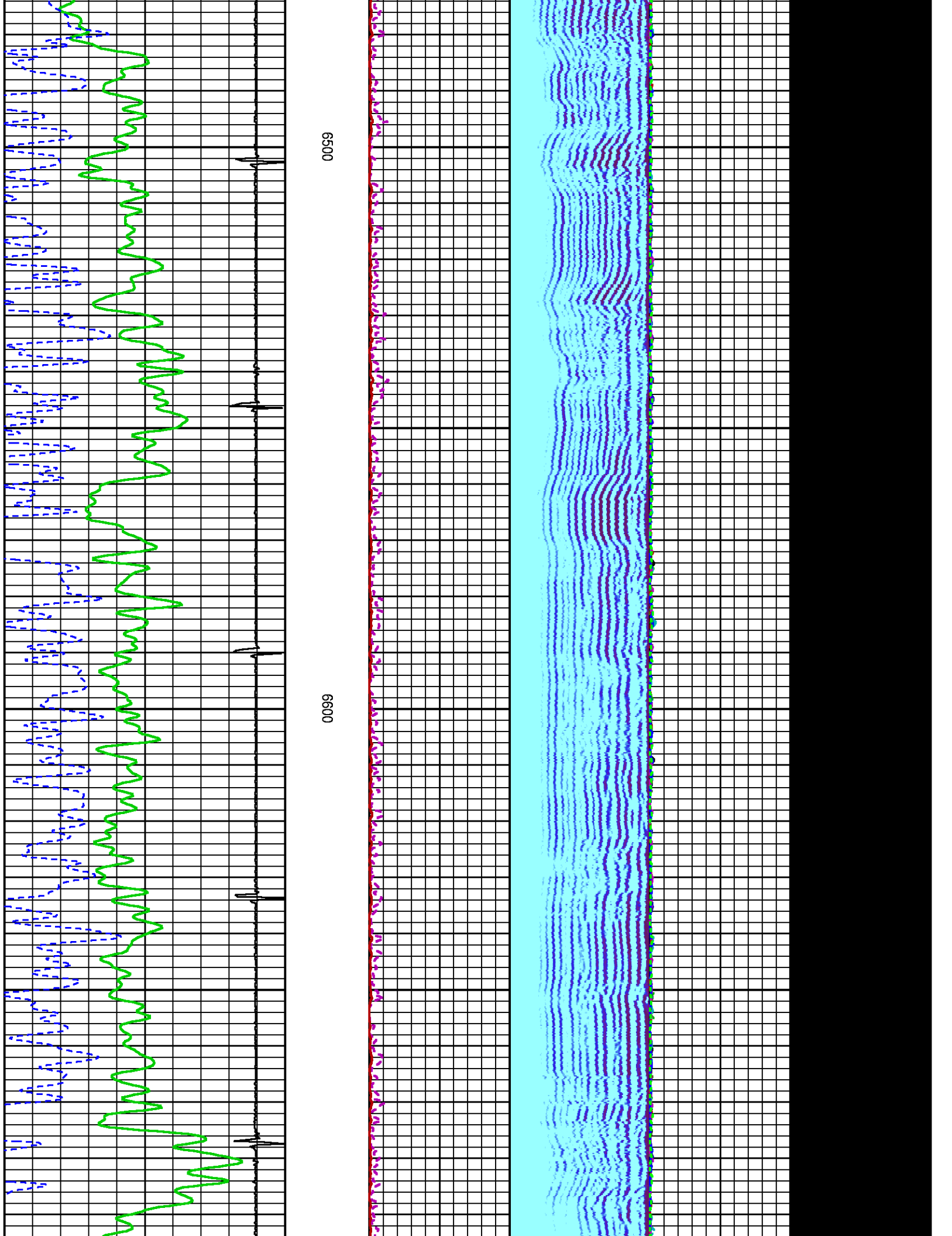


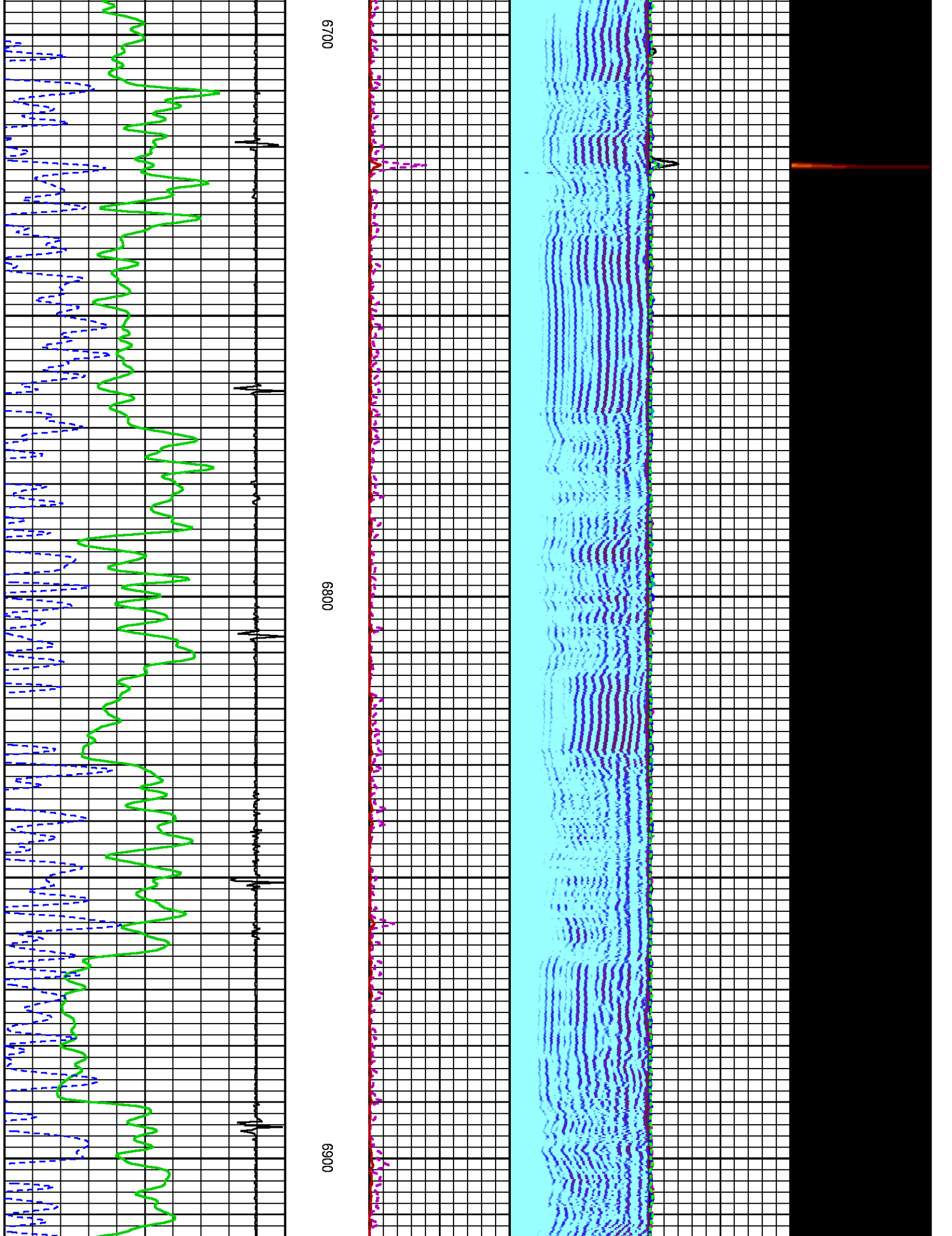


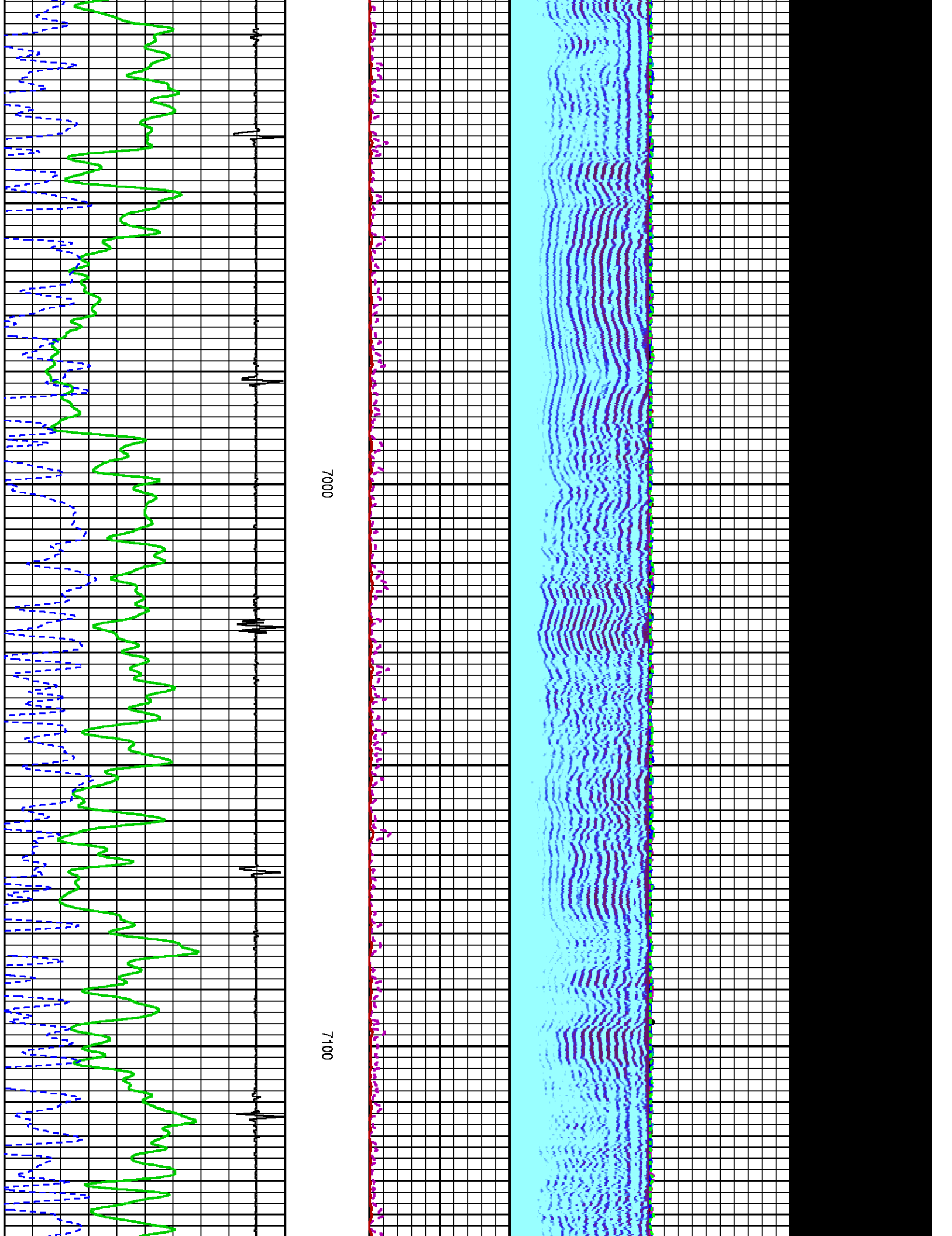






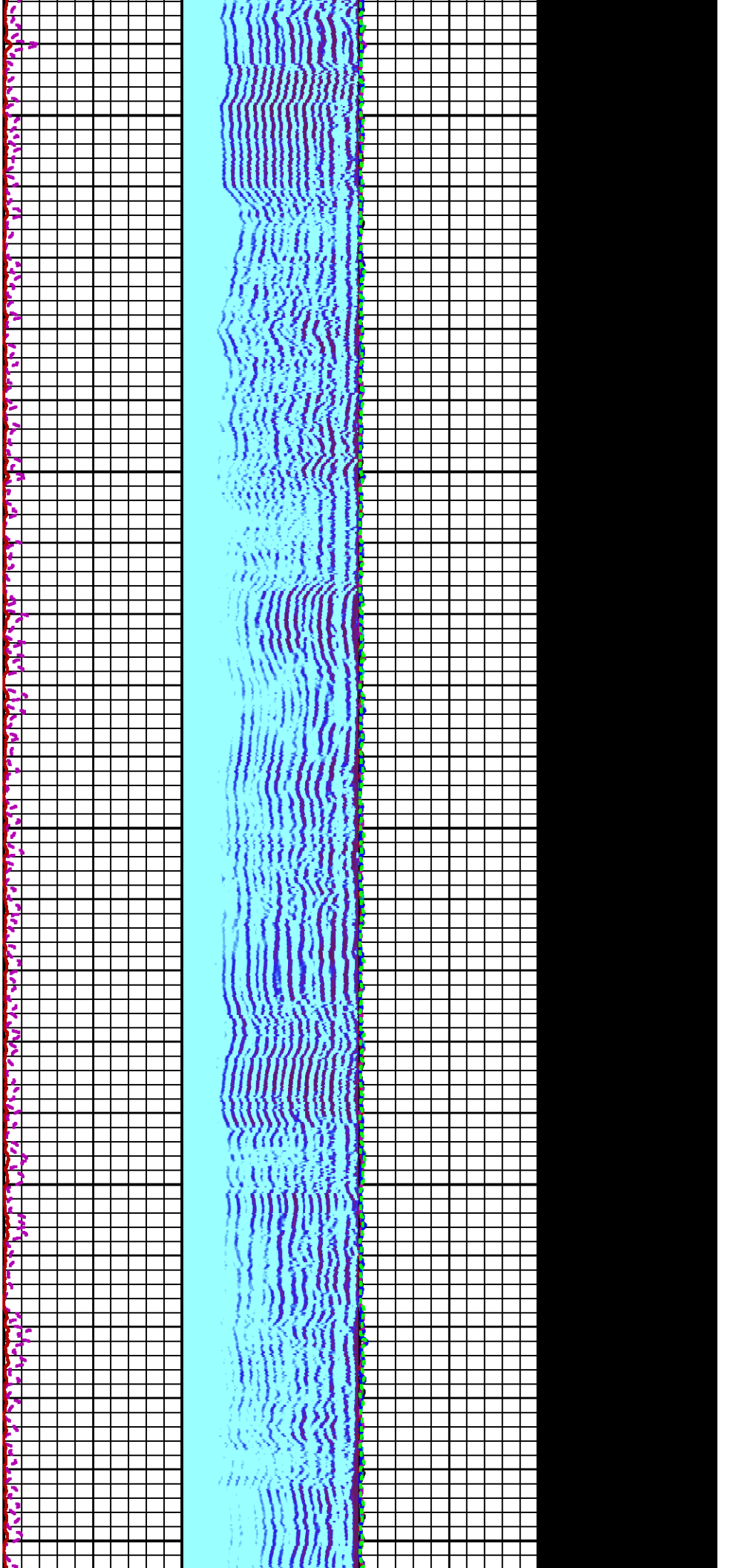






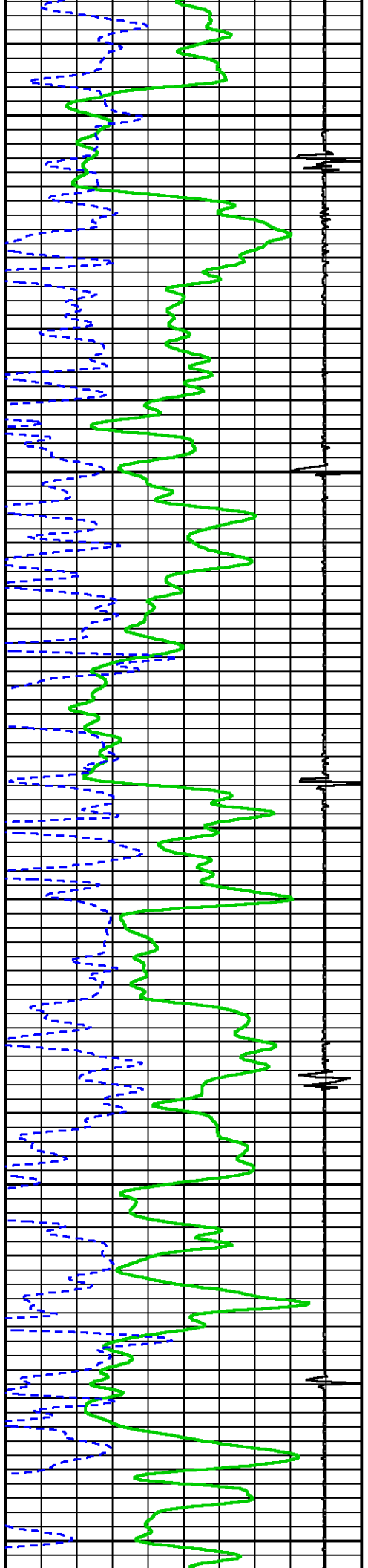
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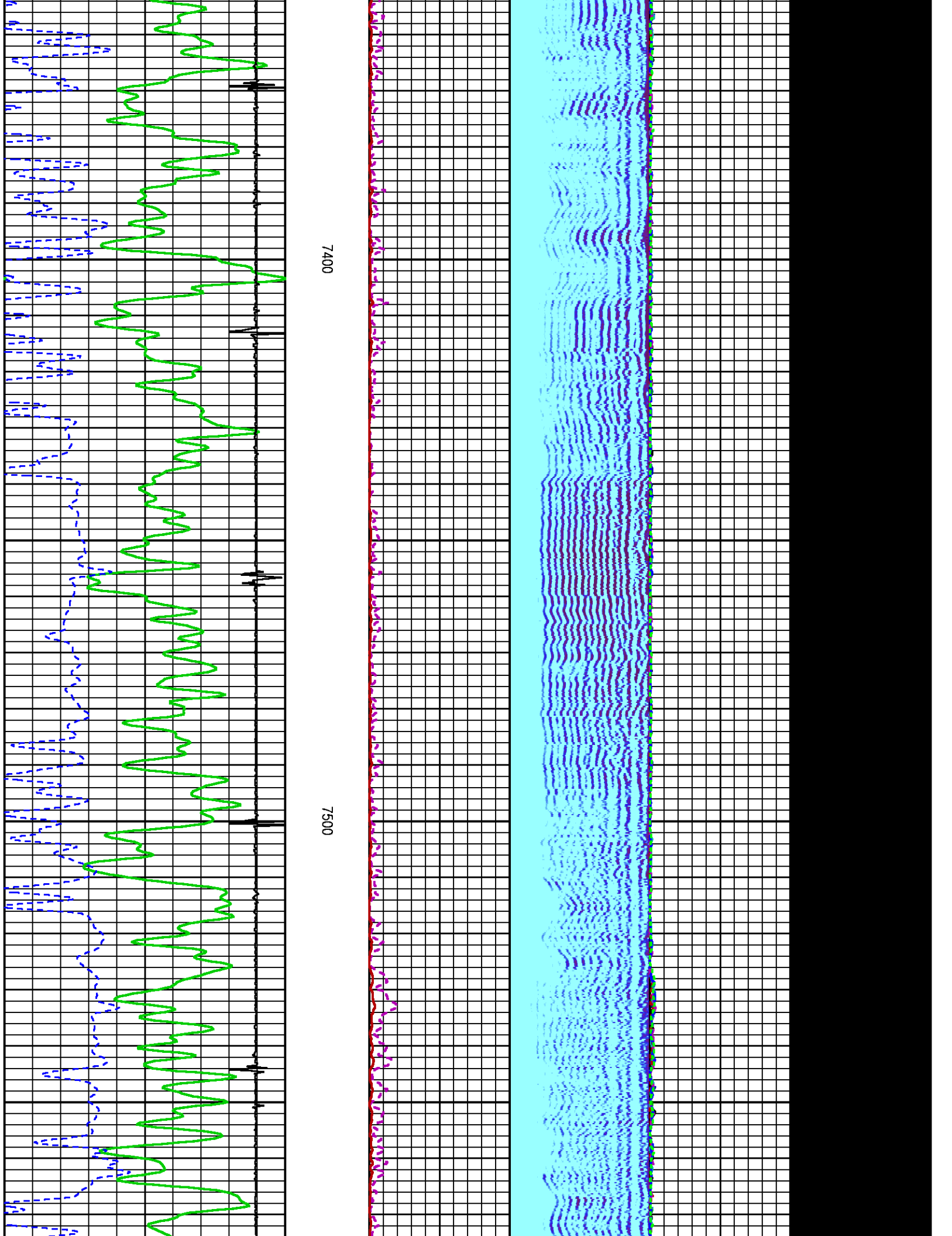
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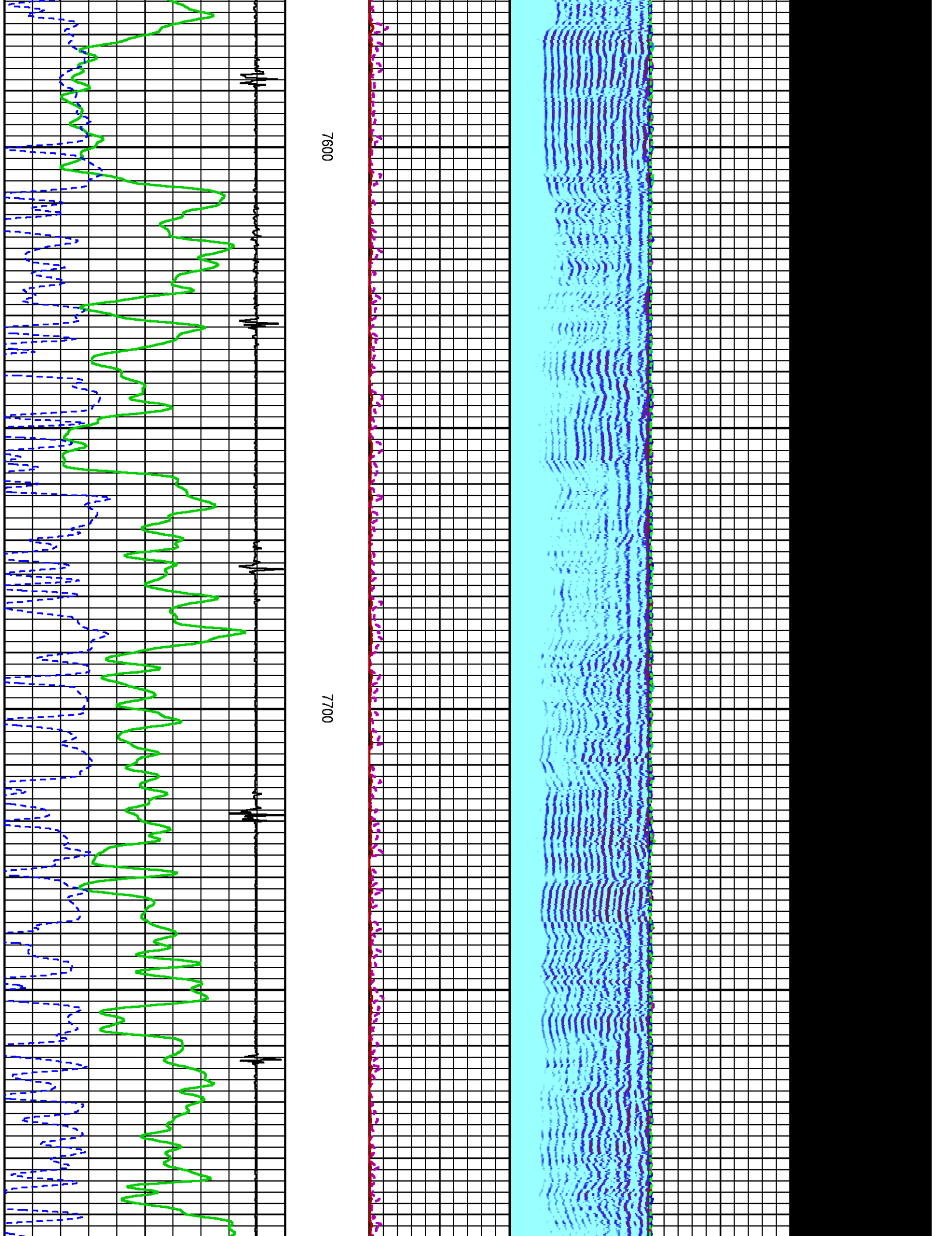


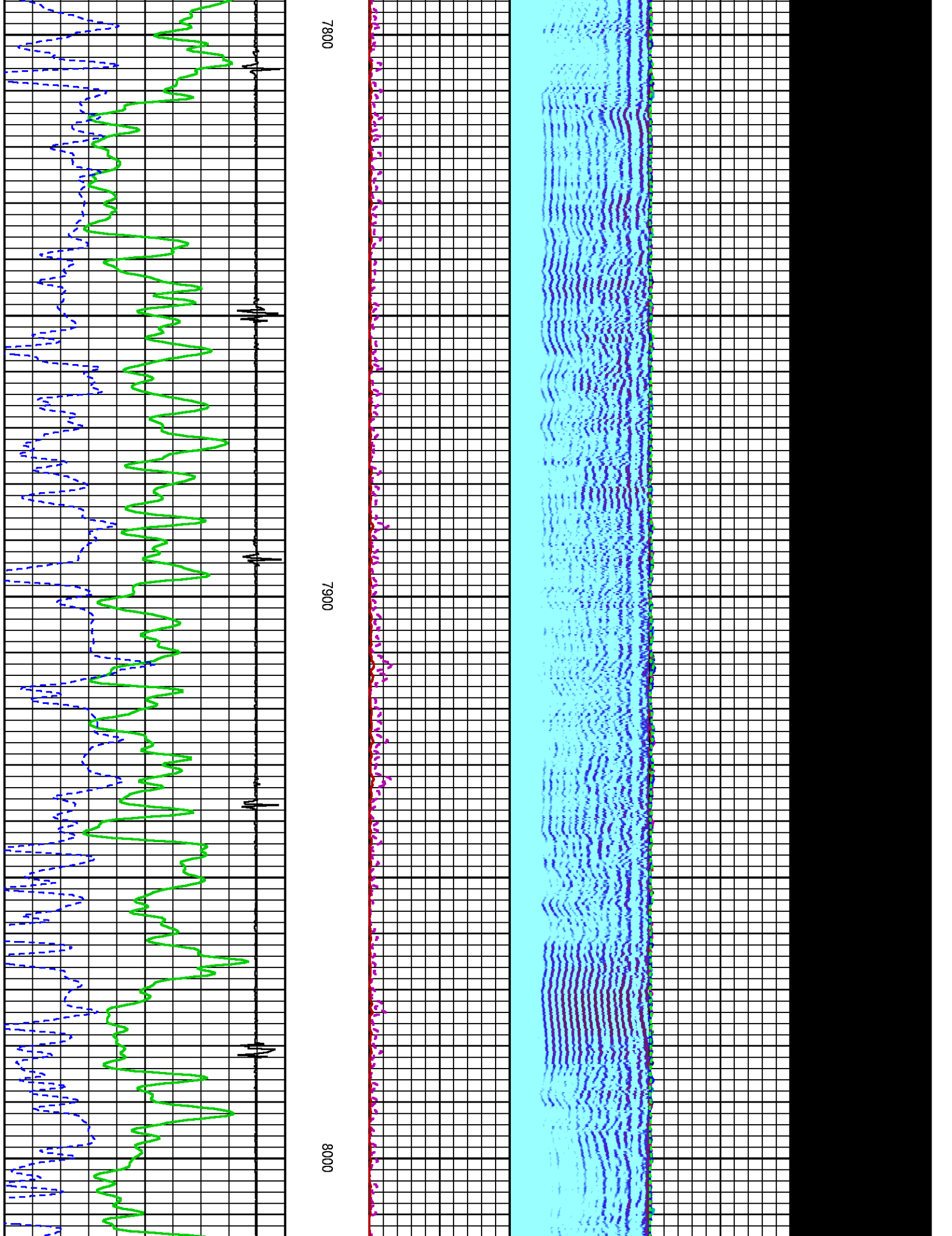
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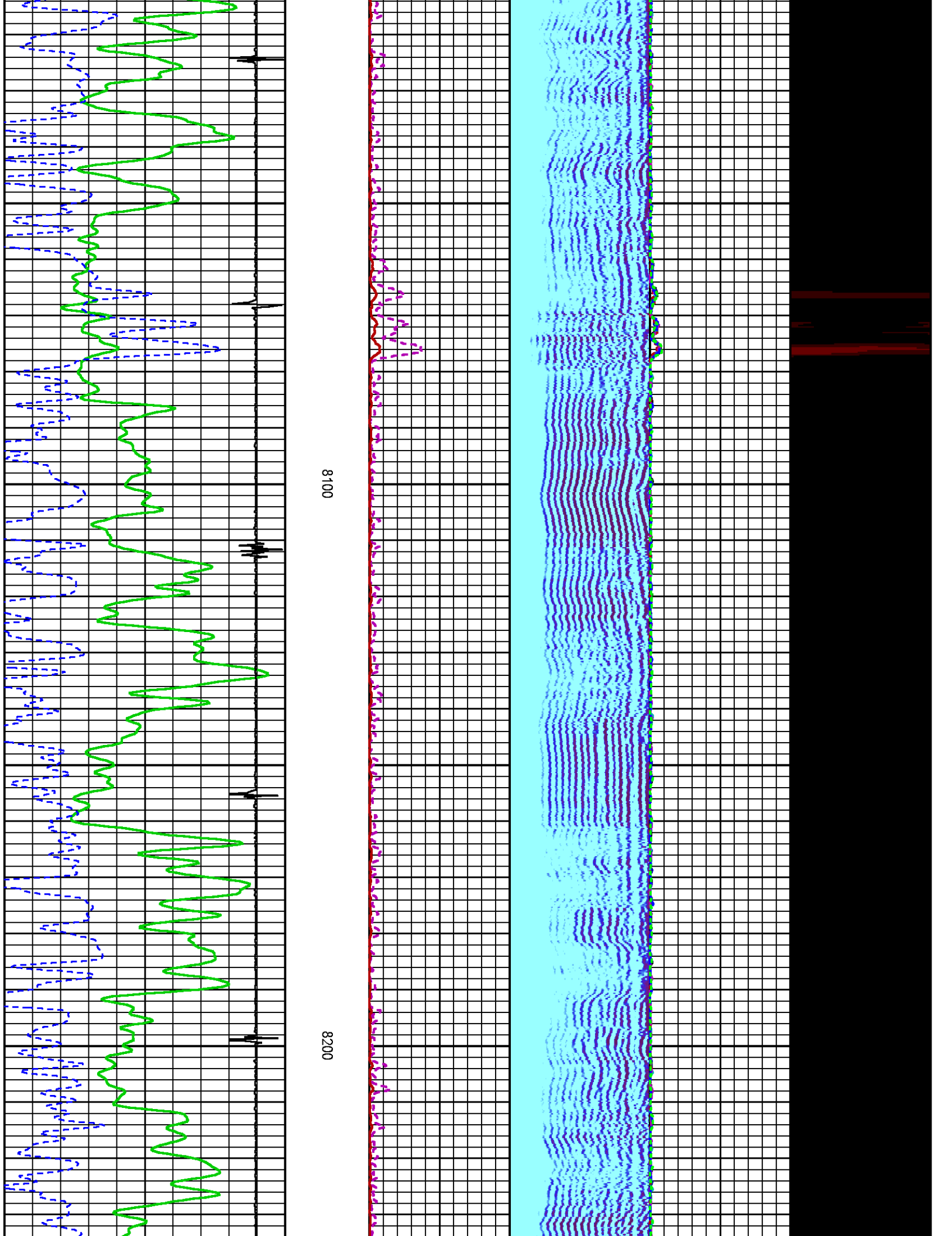
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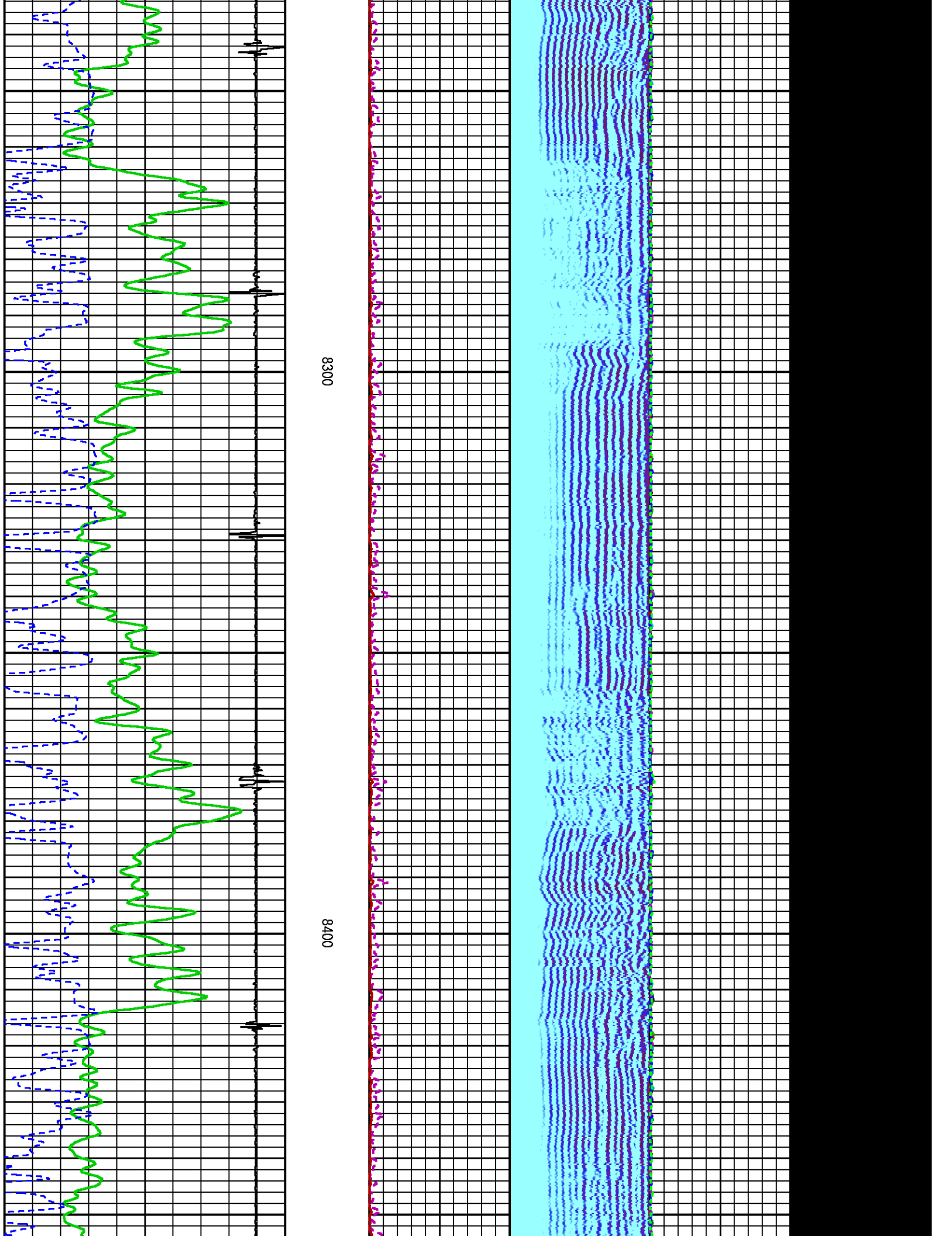


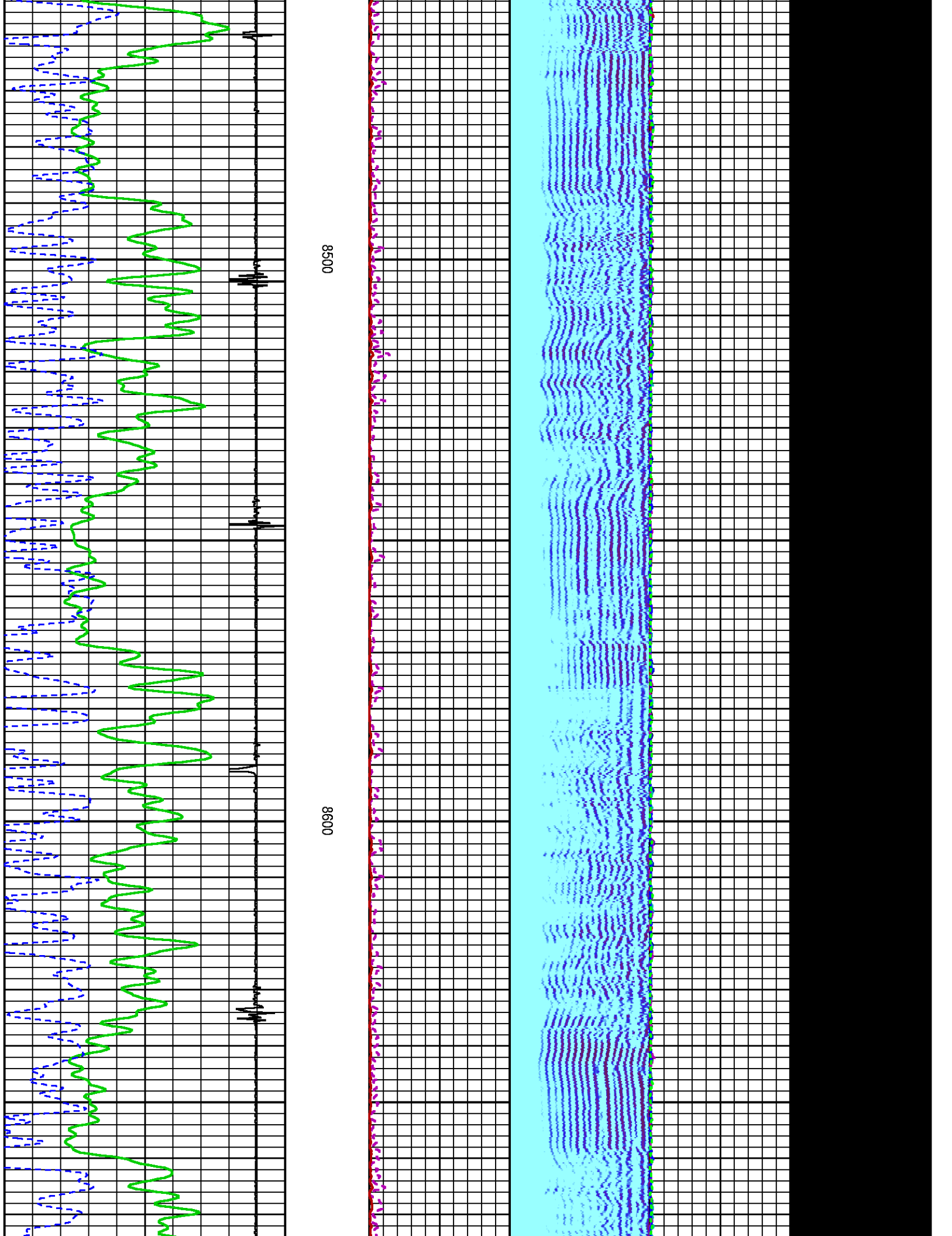


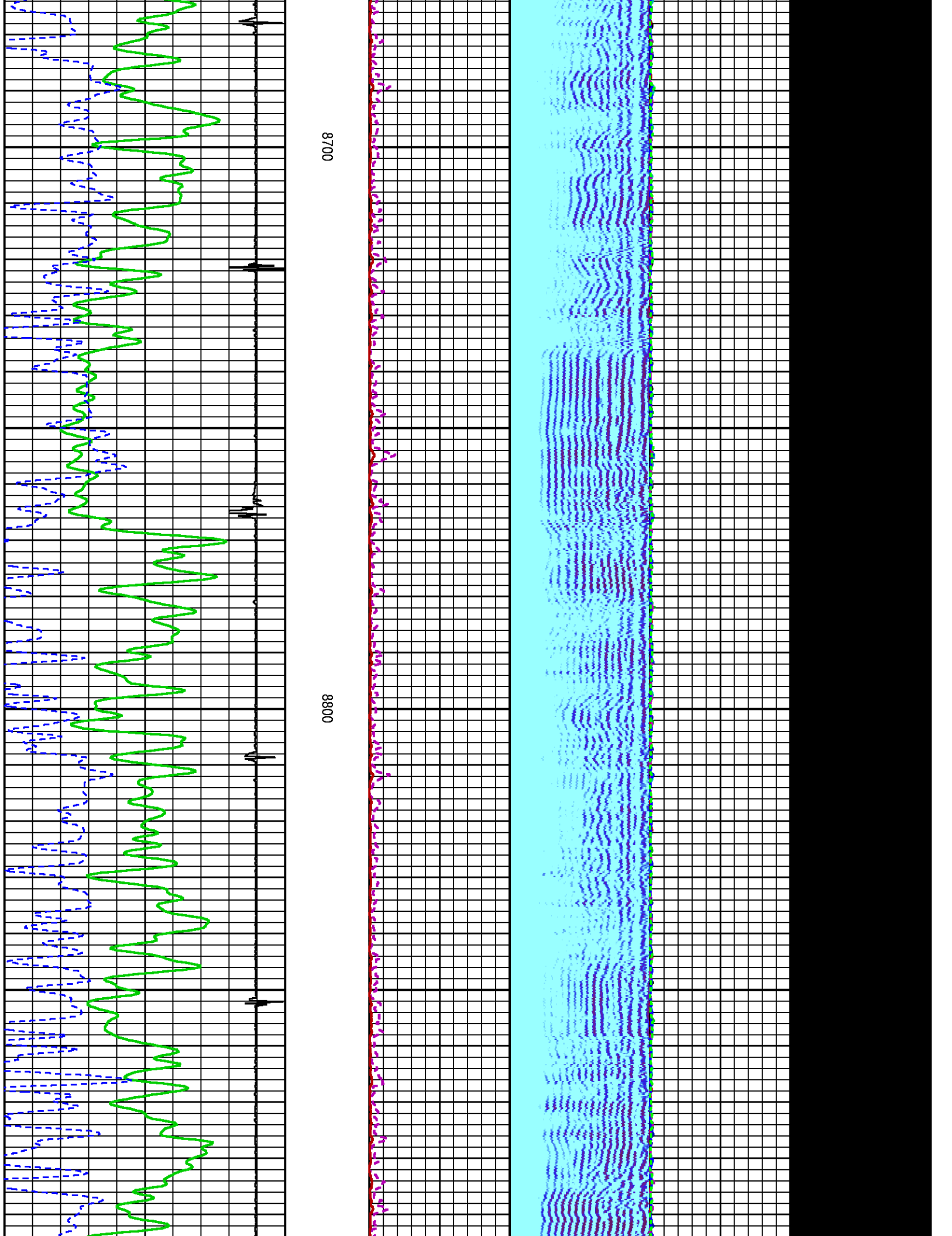


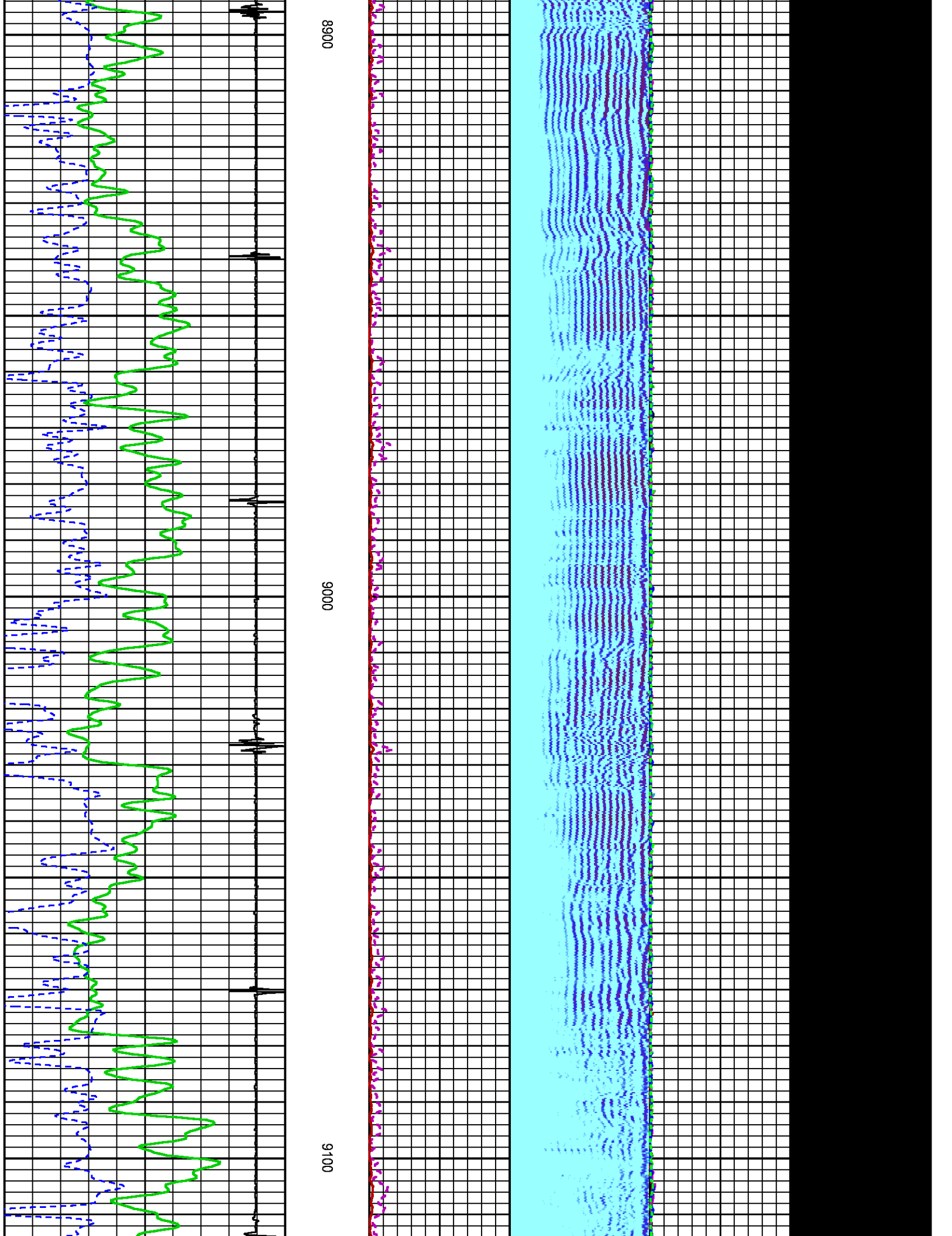








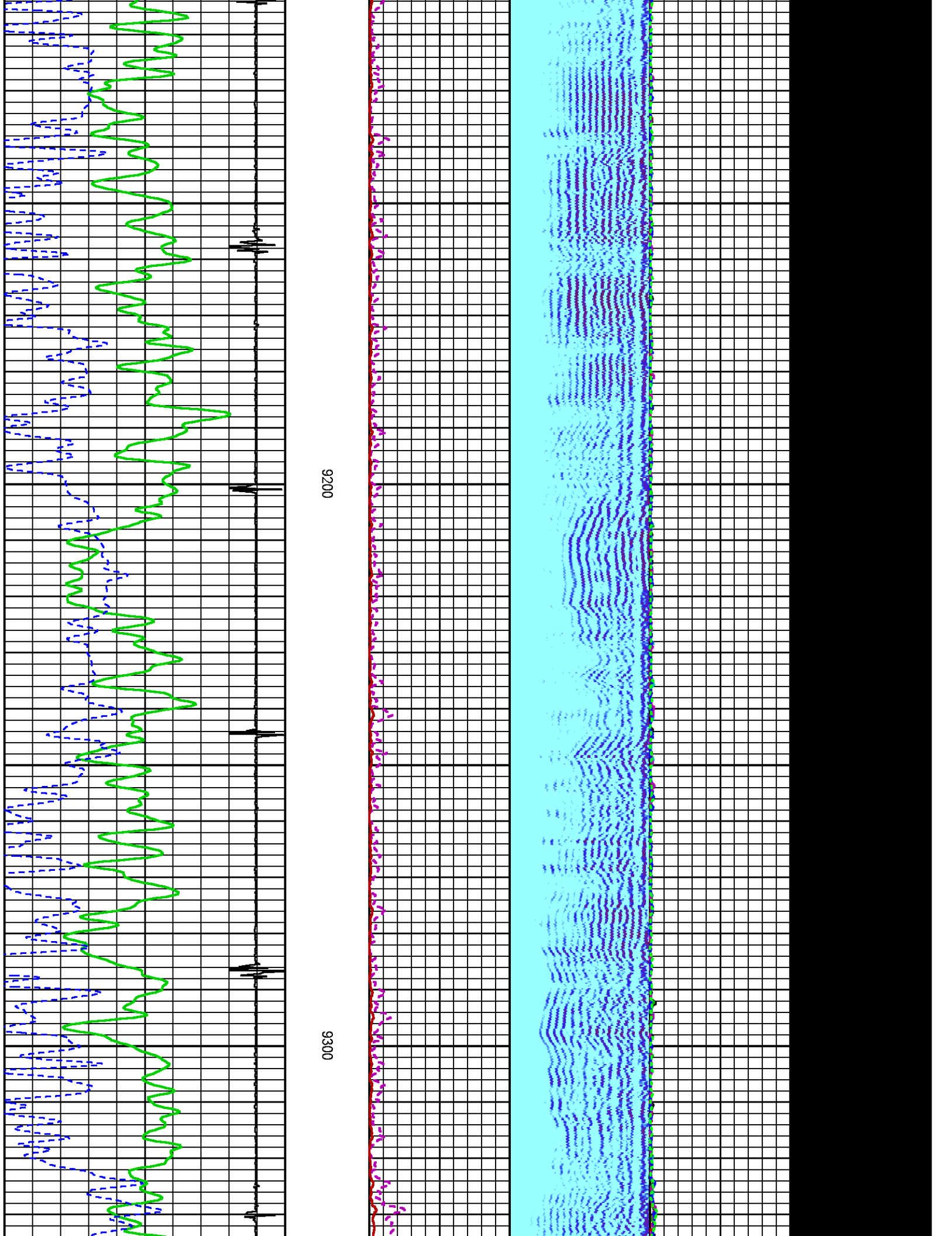


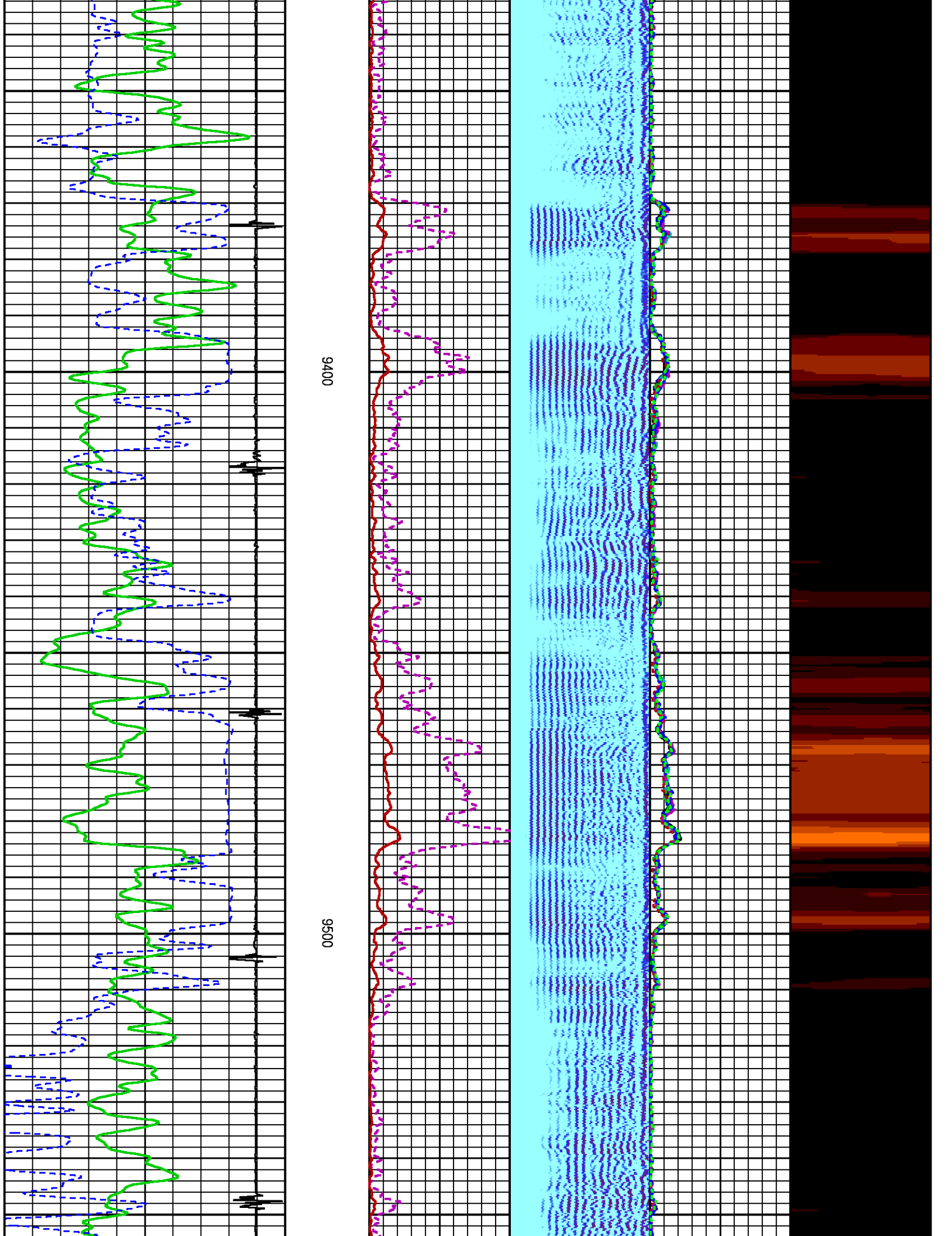


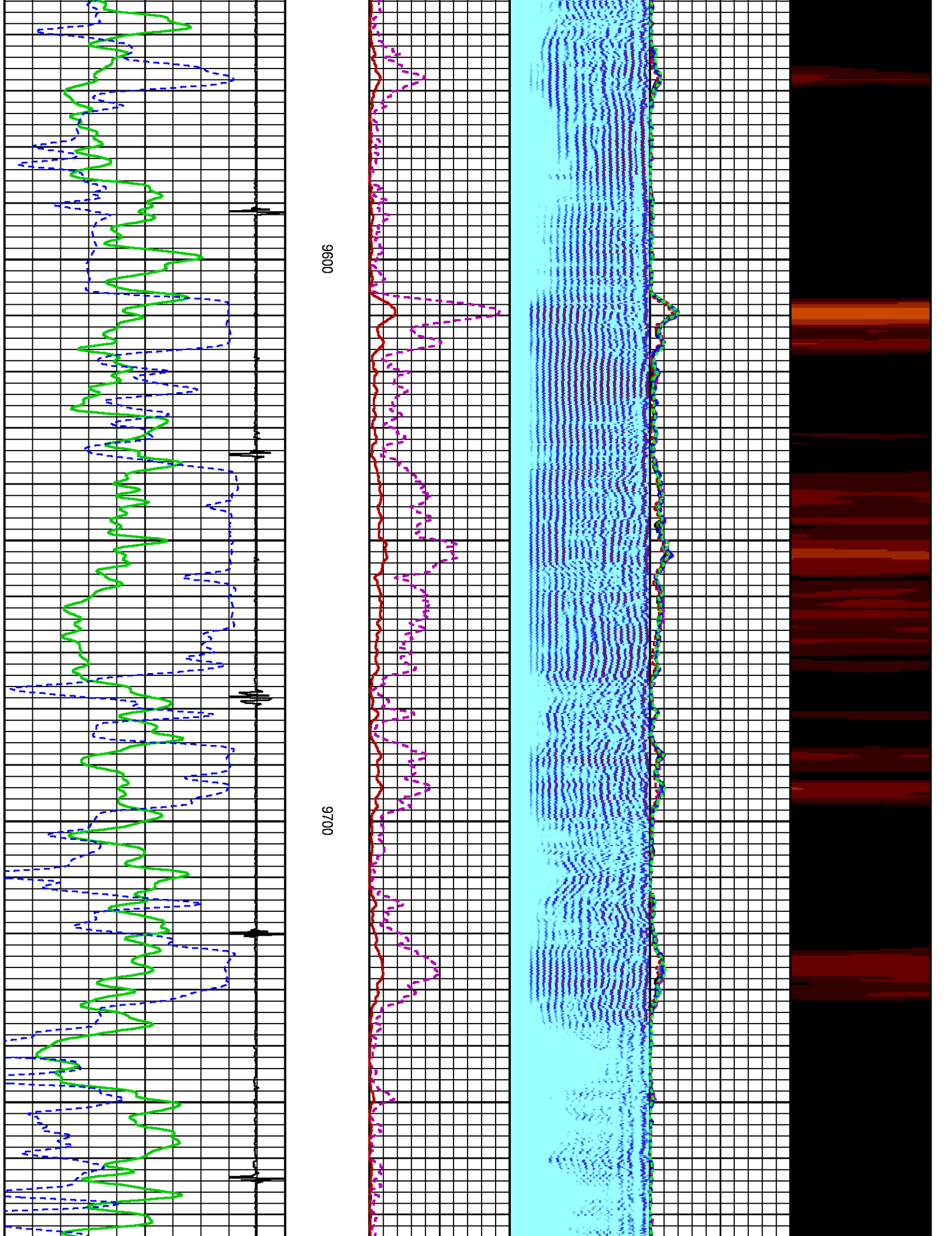
8900

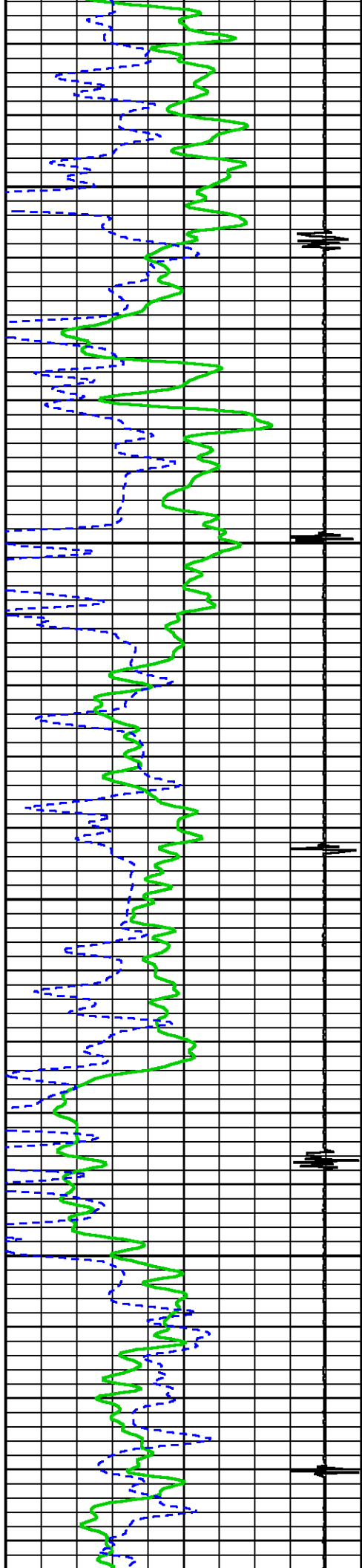
9000

9100



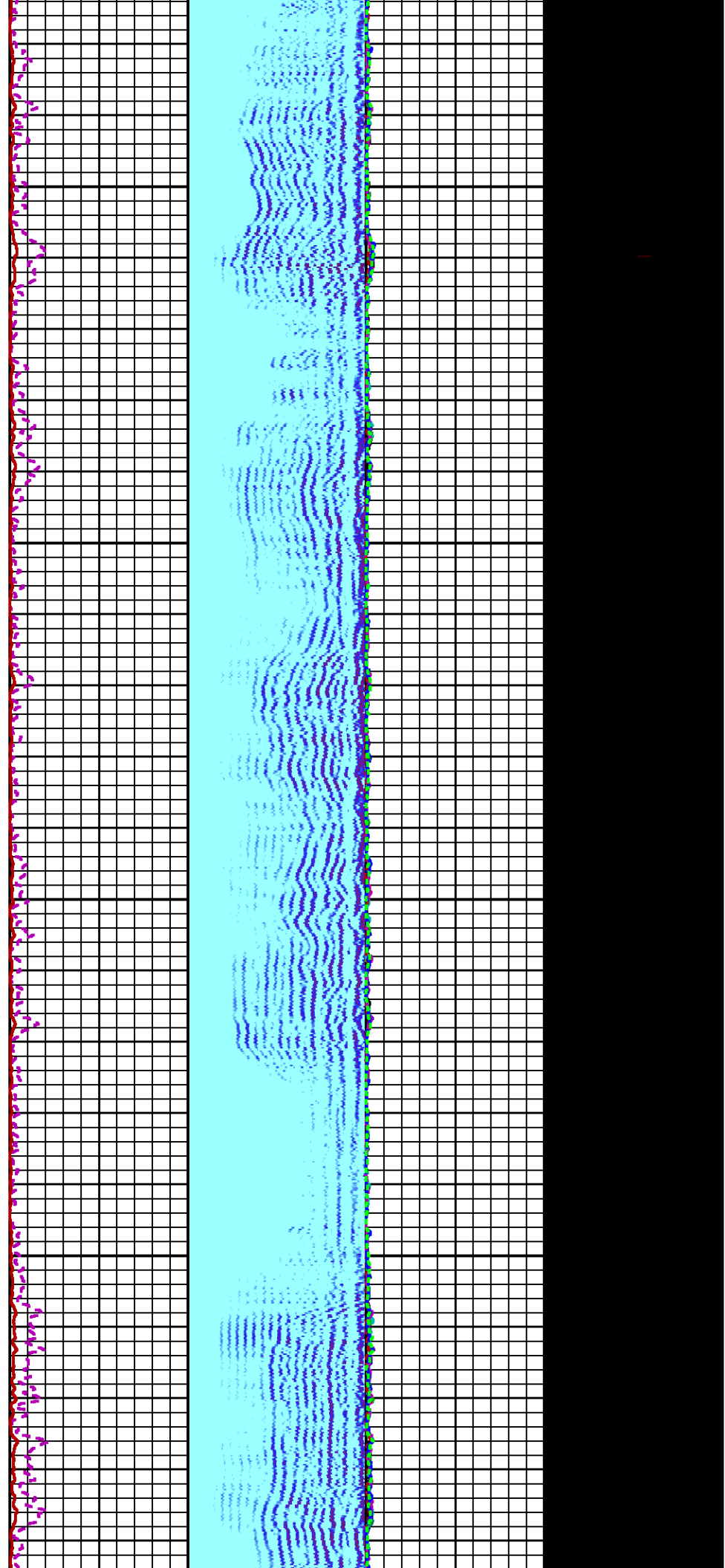


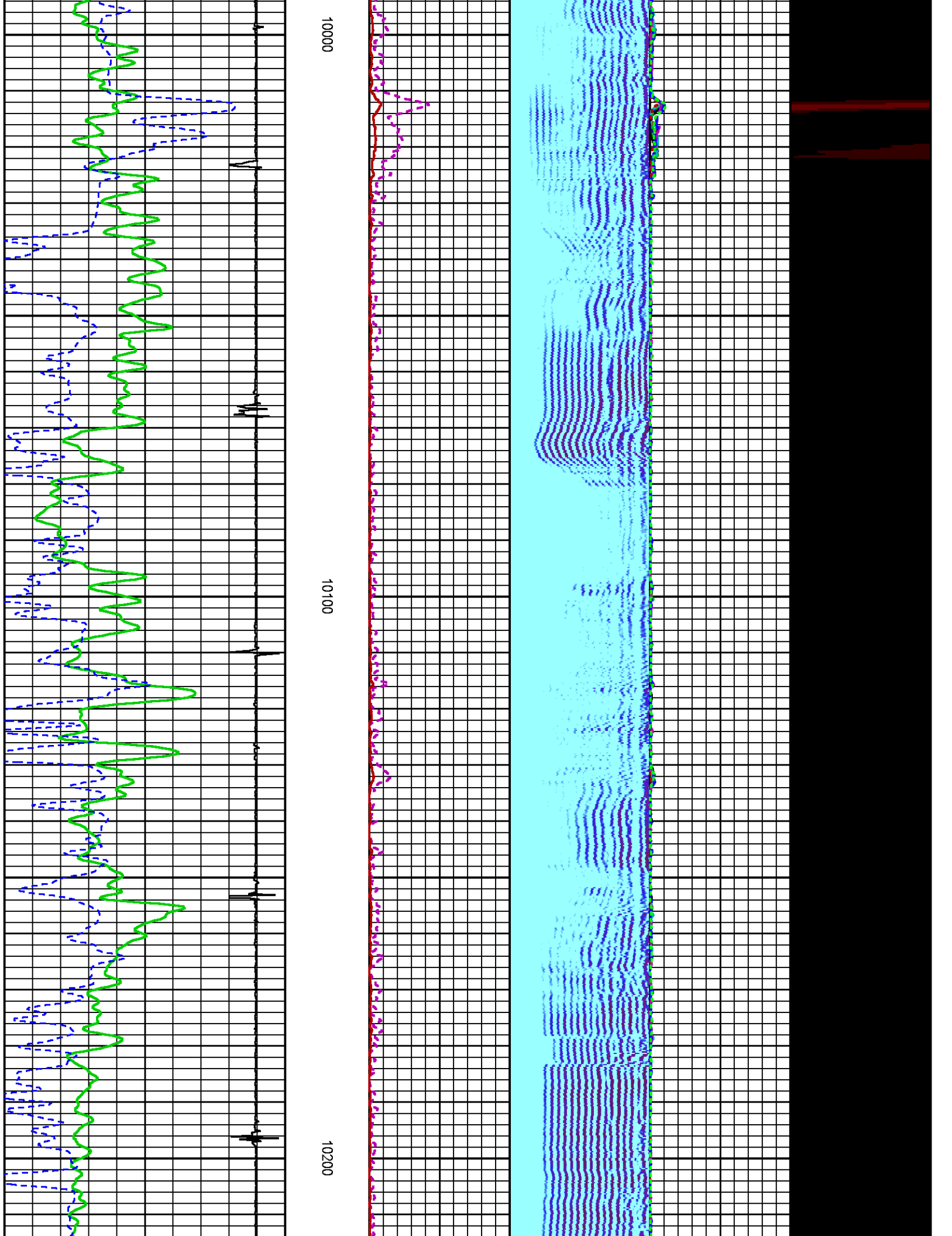


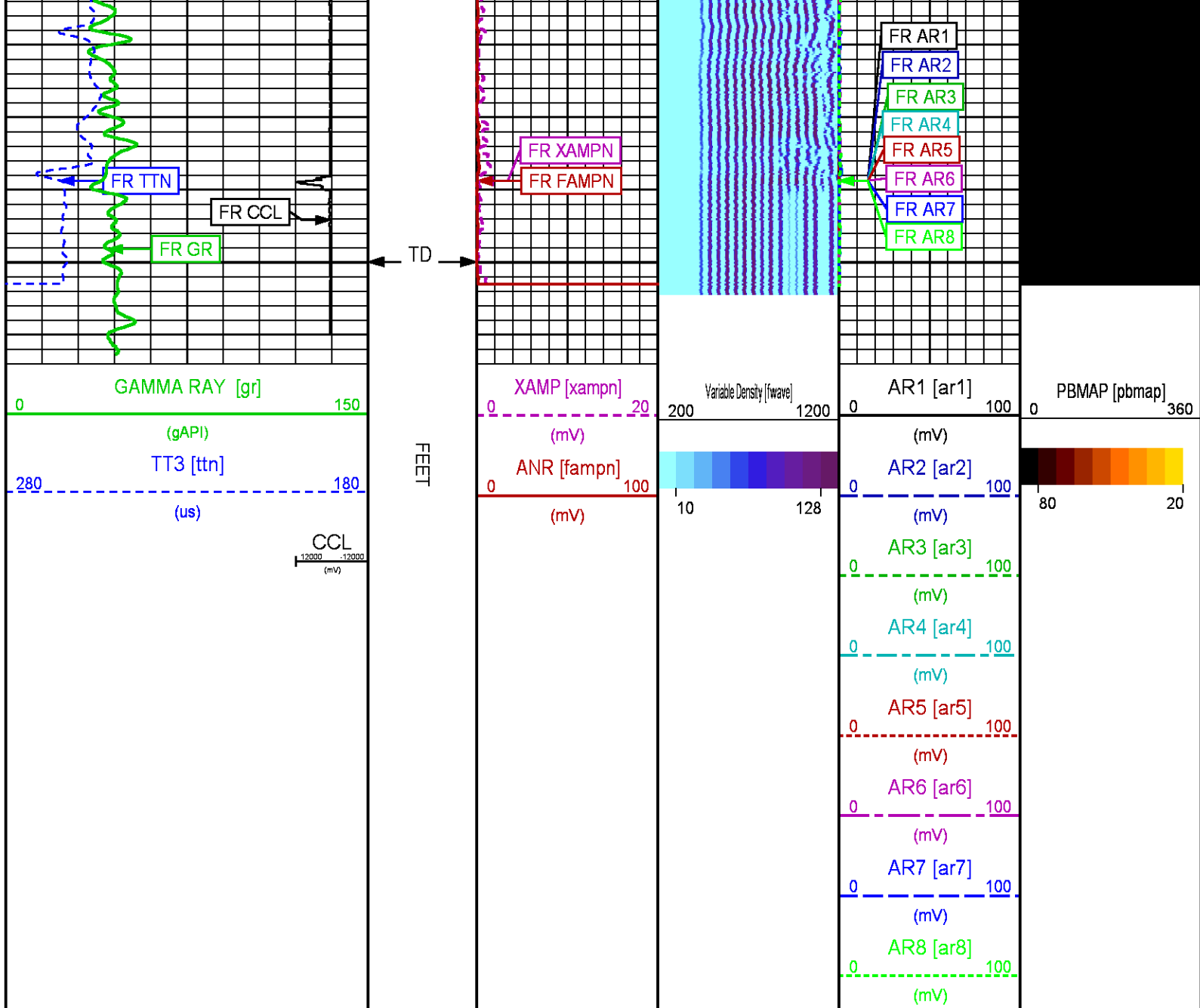


9800

9900







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH105821/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10404539

DATE/TIME PERFORMED: Thu Feb 18 10:38:36 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)	-0.39	-0.50	-0.47	-0.42	-0.33	-0.61	-0.42	-0.40	-0.53	-0.38	-0.10
AMP FLUID (mV)	101	101	100	99	99	102	101	102	102	136	98

TT (us)	216	216	216	215	215	215	214	214	216	322	216
M FACTOR	0.99	0.98	0.99	1.00	1.00	0.97	0.98	0.98	0.98	1.10	1.02

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10404539 DATE/TIME PERFORMED: Fri Feb 19 19:49:09 2016 DAYS SINCE CAL: 1

UNIT #: 3885TC 6685 CABLE #: HL6685 SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.06	0.02	-0.00	-0.10	-0.06	-0.09	-0.09	0.06	0.05	0.07	0.15
AMP AIR	-0.19	-0.86	-0.45	-0.65	-1.03	-1.36	-0.89	-0.95	-0.91	-0.18	102.39

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.02	0.00	0.98

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Thu Feb 18 10:45:51 2016

UNIT #: 3885TC 6685 CALB JIG #: 4702NK BA-905

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	77.96	308.13	230.2	0.652	50.80	200.80	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Thu Feb 18 10:47:45 2016

UNIT #: 3885TC 6685 VERI JIG #: 4702NK BA-905

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	74.62	307.47	0.652	48.63	200.37	151.74
						140.00 160.00

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH105821/n012g--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 <u>WPX ENERGY</u>		FILE NO: <u>CH105821</u>
	WELL <u>FEDERAL RU 32-8</u>		API NO: <u>05045227970000</u>
	FIELD <u>RULISON</u>	STATE <u>COLORADO</u>	
	COUNTY <u>GARFIELD</u>		
LOCATION: SHL: 646' FNL & 1900' FWL BHL: 1593' FNL & 1423' FEL		ELEVATIONS: KB 7760 FT DF GL 7736 FT	SEC8 T.7S R.93W RU 21-8 PAD RIG: H&P 318
SEC <u>8</u> TWP <u>7S</u> RGE <u>93W</u>		DATE <u>19-Feb-2016</u>	