



FILE NO:	COMPANY	TEP ROCKY MOUNTAIN LLC	
API NO:	WELL	YOUBERG SR 644-12	
05045232550000	FIELD	RULISON	
	COUNTY	GARFIELD	STATE COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
	SHL: 1916' FSL & 148' FWL	RPM
	BHL: 166' FSL & 342' FWL	
	SEC 12 TWP 7S RGE 94W	

PERMANENT DATUM	GL	ELEVATION	7357 FT	ELEVATIONS:
LOG MEASURED FROM	KB	24 FT	ABOVE P.D.	KB 7381 FT
DRILL. MEAS. FROM	KB			DF
				GL 7357 FT

DATE		04-DEC-2016			
RUN	TRIP	1	1		
SERVICE ORDER		US109792			
DEPTH DRILLER		9786 FT			
DEPTH LOGGER		9784 FT			
BOTTOM LOGGED INTERVAL		9784 FT			
TOP LOGGED INTERVAL		24 FT			
TIME STARTED		09:00			
TIME FINISHED		11:30			
OPERATOR RIG TIME		2.5			
TYPE OF FLUID IN HOLE		WATER			
FLUID DENSITY		NA			
FLUID SALINITY		NA			
FLUID LEVEL		48 FT			
LOGGED CEMENT TOP		SEE LOG			
WELLHEAD PRESSURE		0 PSI			
MAXIMUM HOLE DEVIATION		NA			
NOMINAL LOGGING SPEED		100 F/MIN			
MAX. RECORDED TEMP.		237 DEGF			
REFERENCE LOG		NA			
REFERENCE LOG DATE		NA			
EQUIP. NO.	LOCATION	HL-6670	WOODWARD		
RECORDED BY		L.OHANDLEY			
WITNESSED BY		MR. KYLE KOHL			

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

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9 5/8				1124 FT
4.5 IN			0 FT	9786 FT

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELL*

OPERTION 1: RAL/GR/CCL RUN CENTRALIZED

WELL LOGGED WITH 0 PSI ON THE WELLHEAD

BHT: 237 DEGF

SHORT JOINT: 5874'-5896'

CREW: K.NUTTER, R.HEATH

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426 XA	10154957	CENTRALIZED
1	1	GR/CCL	1355 XA	12670180	CENTRALIZED

MAIN LOG 0 PSI

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

Plotted: Sun Dec 4 12:45:49 2016

PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/TEP_YOUBERG_SR_544_12/n012g02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 17.500 ft BOTTOM DEPTH: 9797.844 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*)	181	us	TOP	3144.250
		180	us	3144.250	3147.750
		182	us	3147.750	3151.250
		185	us	3151.250	4292.250
		182	us	4292.250	4388.000
		187	us	4388.000	4391.500
		190	us	4391.500	4395.000
		192	us	4395.000	4397.500
		195	us	4397.500	4400.250
		199	us	4400.250	BOTTOM
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	25	us	TOP	BOTTOM
	TT WINDOW START (ttn*)	160	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*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

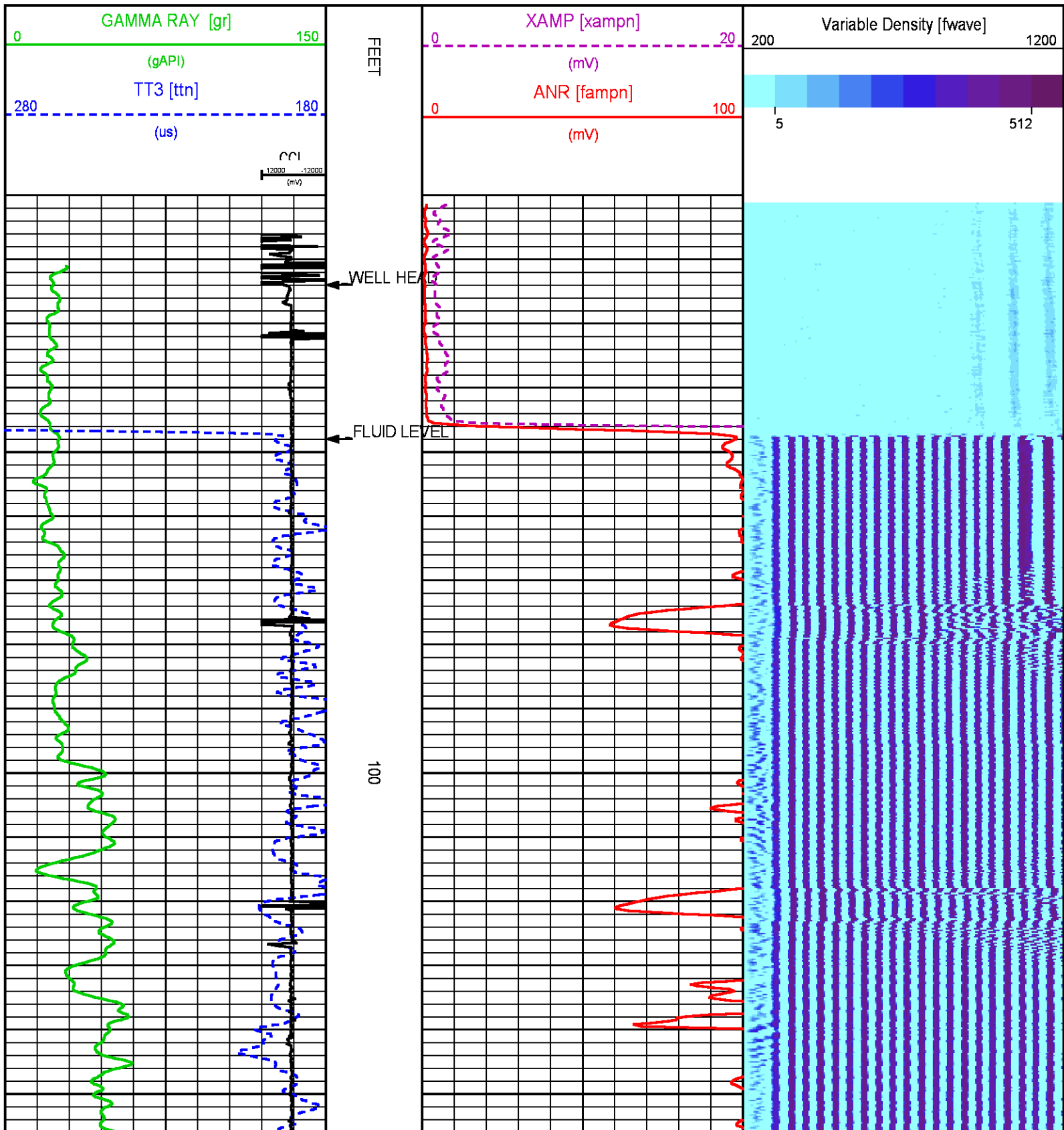
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 4 10:11:45 2016	CASING COLLAR LOCATOR
F1:FAMPN	Dec 4 10:11:45 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 4 10:11:45 2016	FAR WAVE FORM
F1:GR	Dec 4 10:11:45 2016	GAMMA RAY
F1:TTN	Dec 4 10:11:45 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 4 10:11:45 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

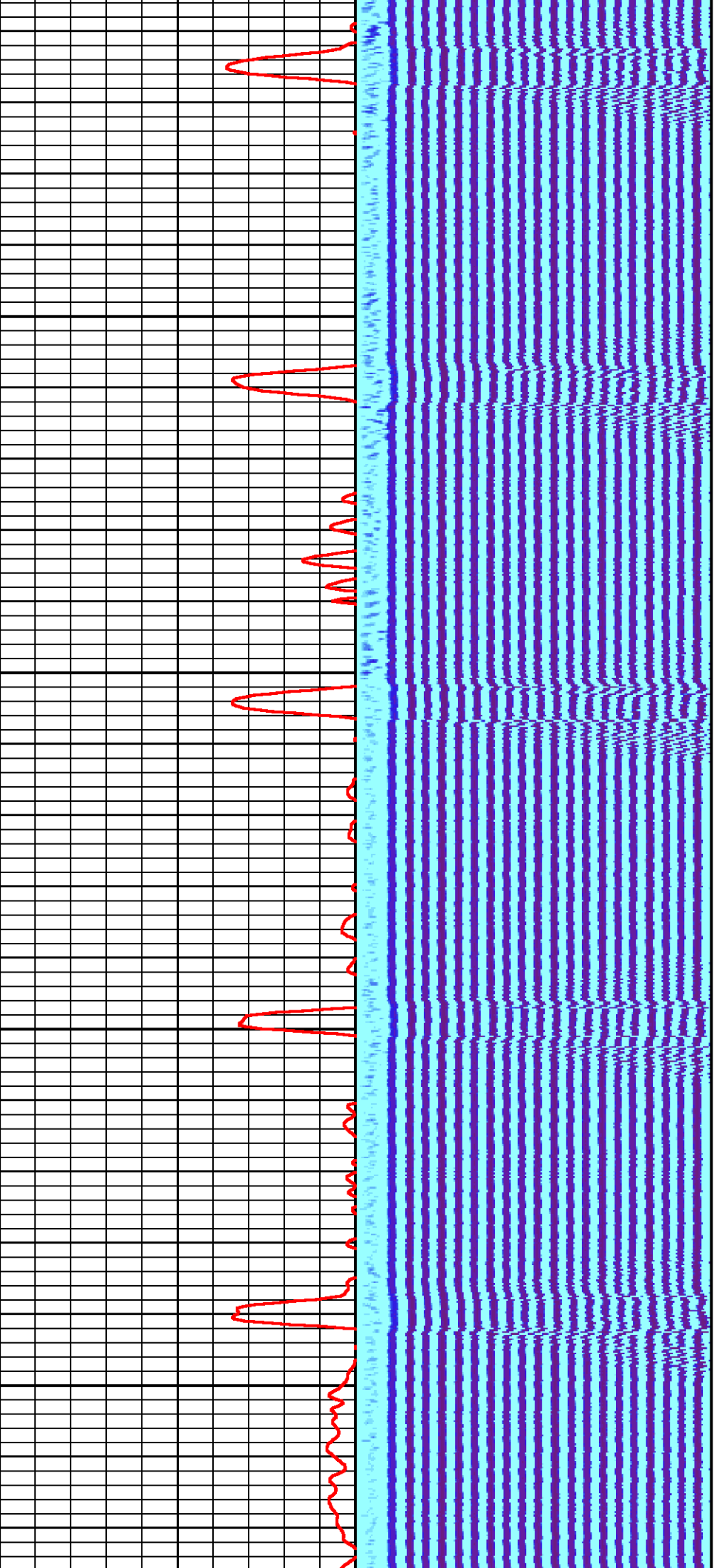
CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (#)	CURVE	OFFSET (#)	CURVE	OFFSET (#)

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

Presentation : cpu100:/dat1a/TEP_YOUBERG_SR_544_12/ral_cbl+01-MAIN-MAINRAL-5.fvpdf [5"/100' Scale]
Plot Interval : 11.25 - 9803 Feet

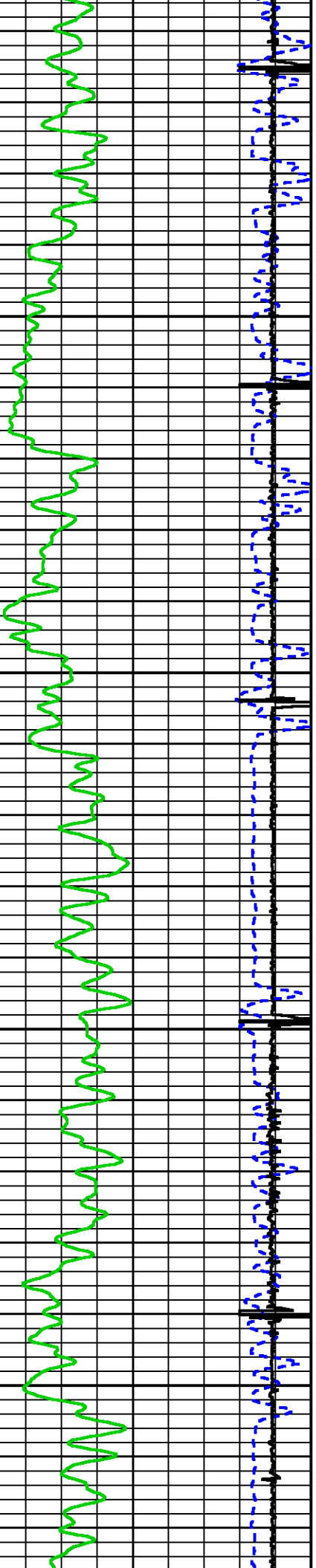
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Created On : Dec 4 10:11:45 2016
Company : TEP
Well : YOUNBERG SR 544-12
Field : RULISON
File Interval : 10.25 - 9800.5 Feet
OCT : n012g

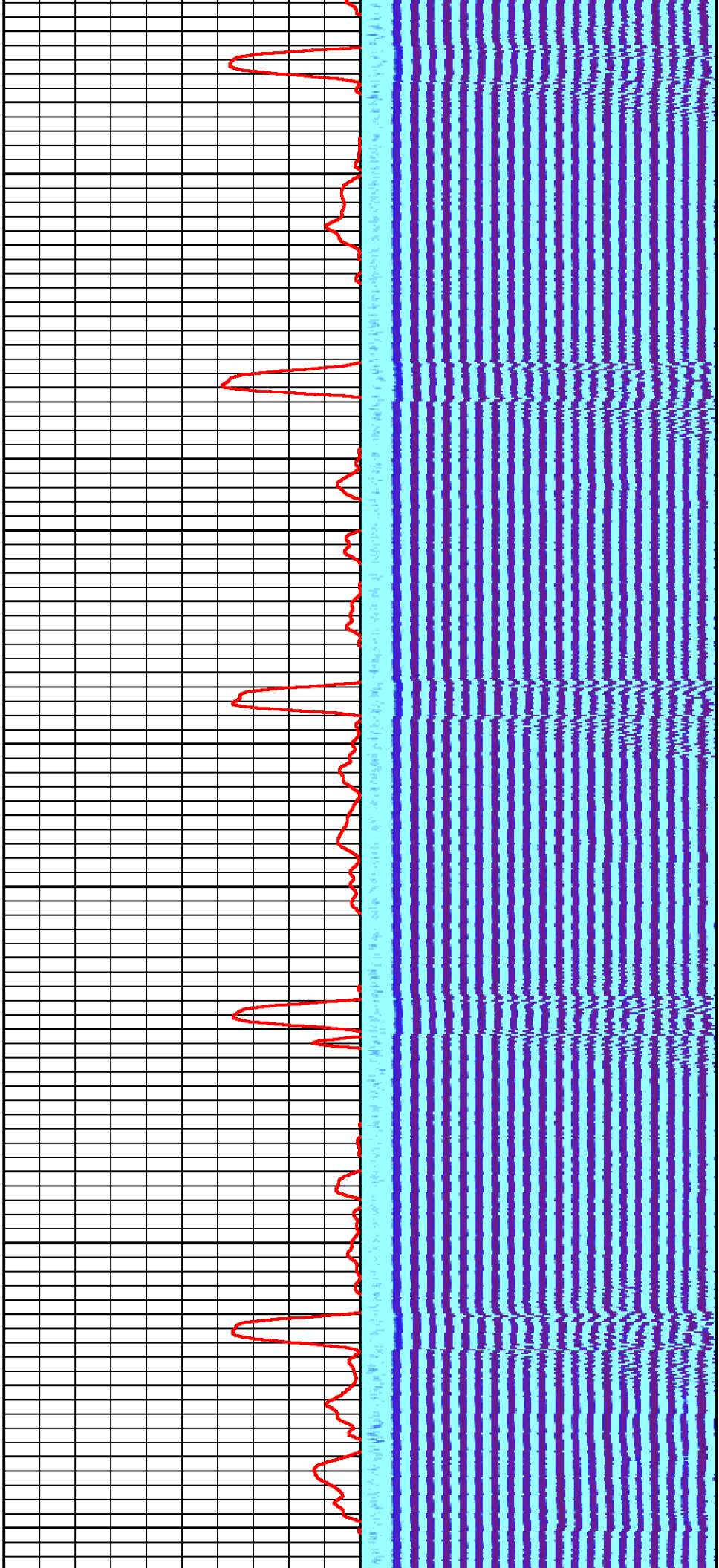




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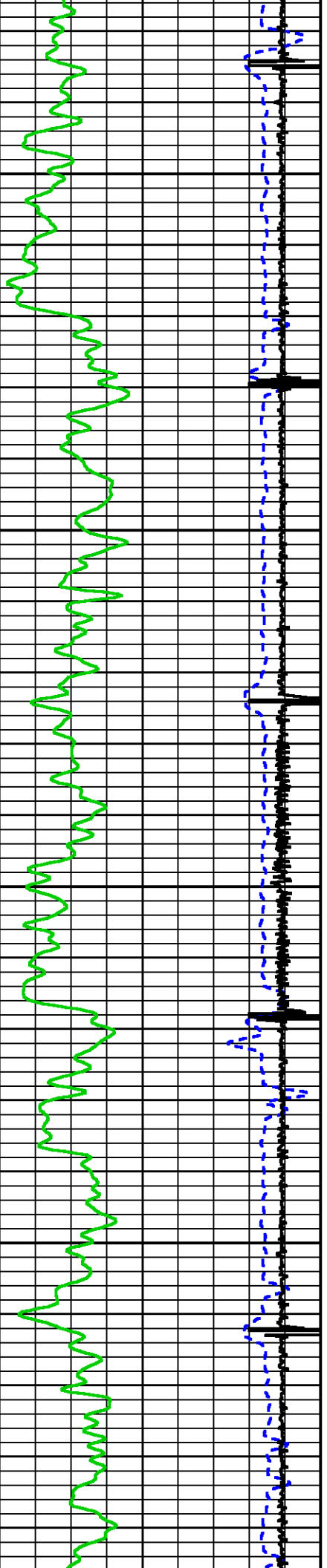
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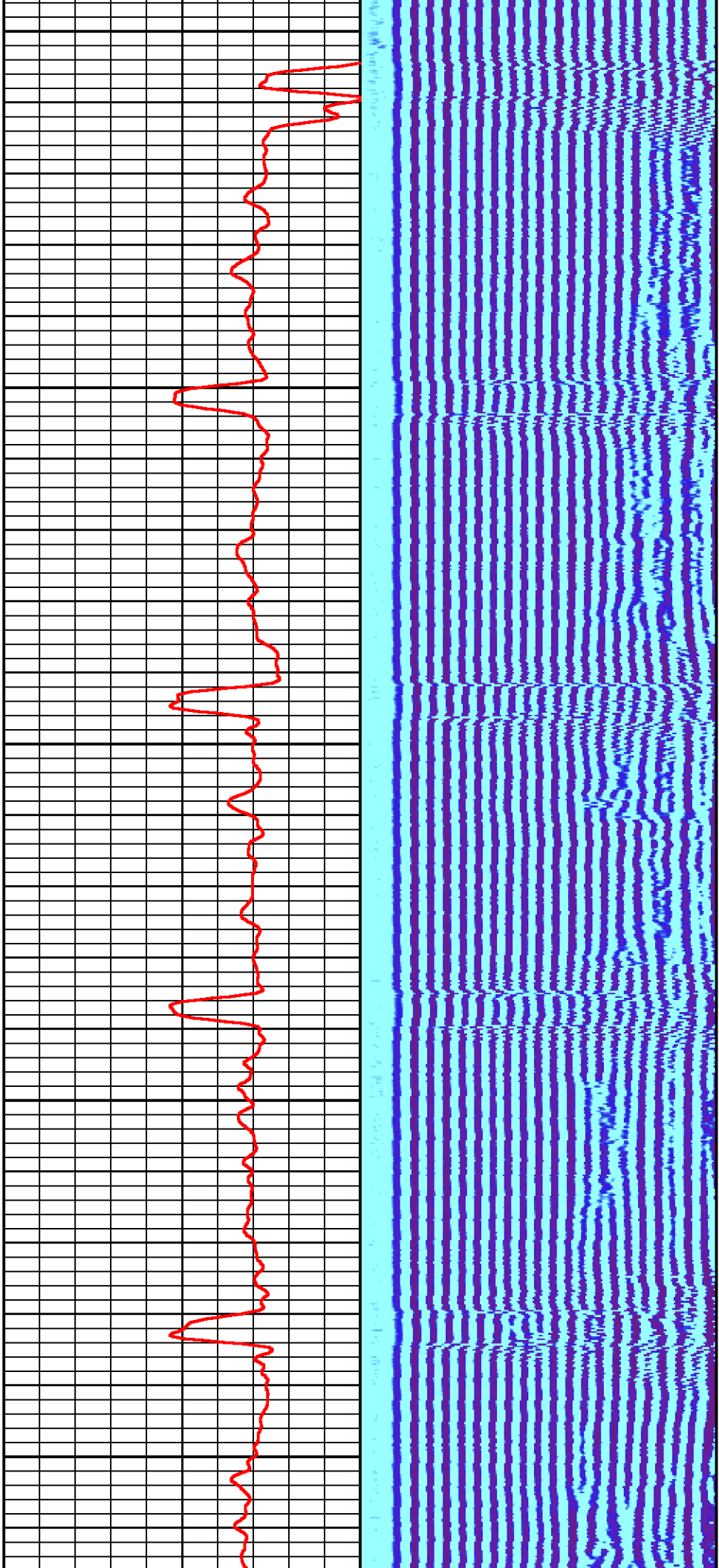




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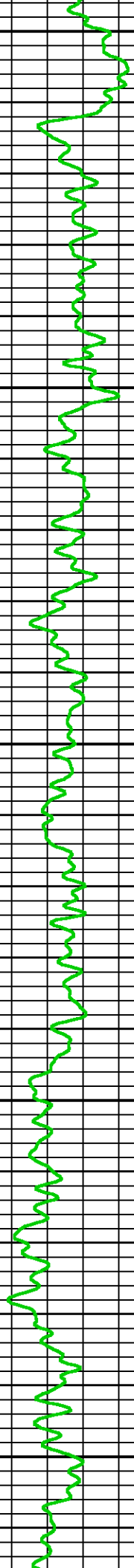
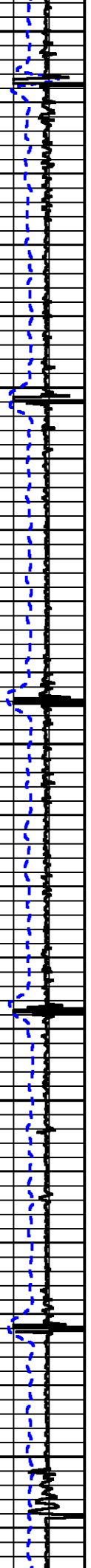


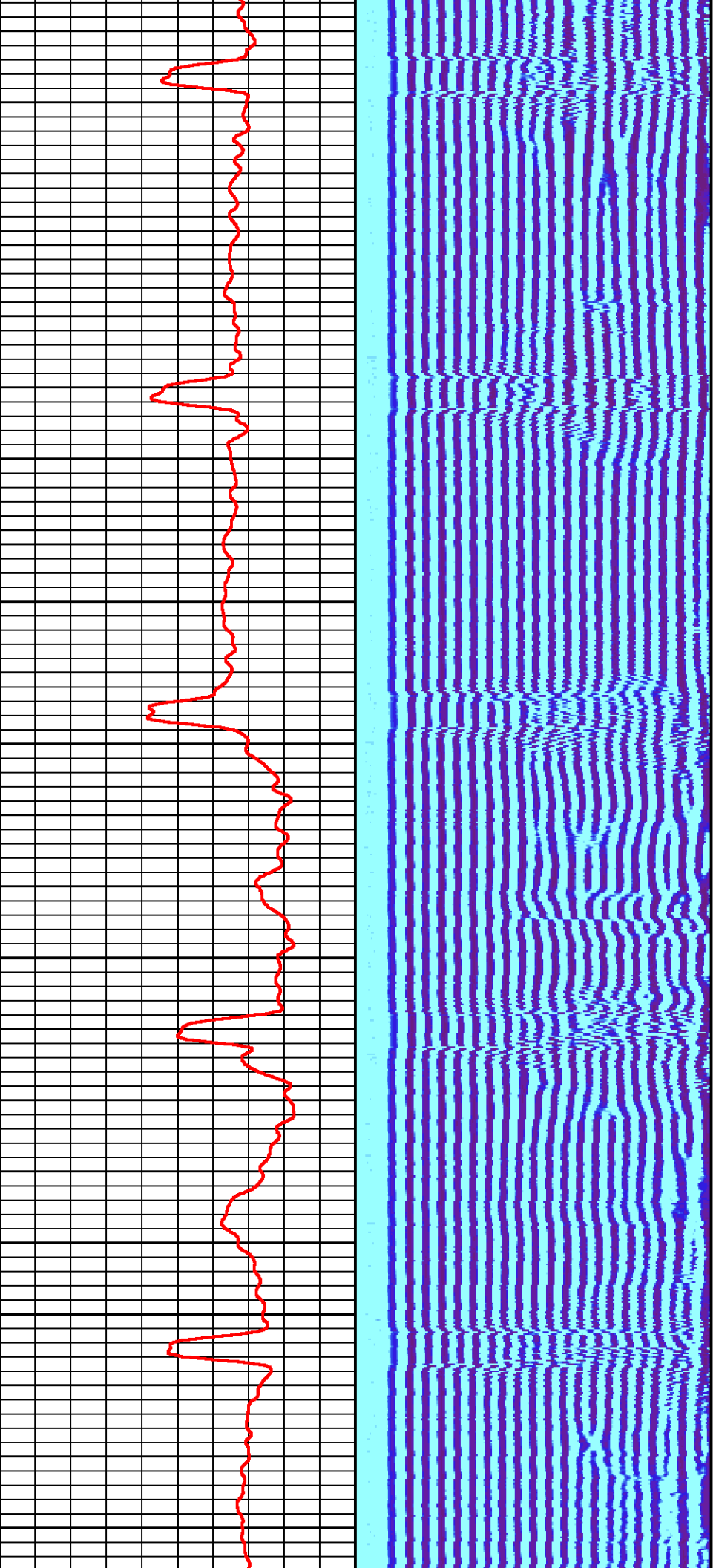


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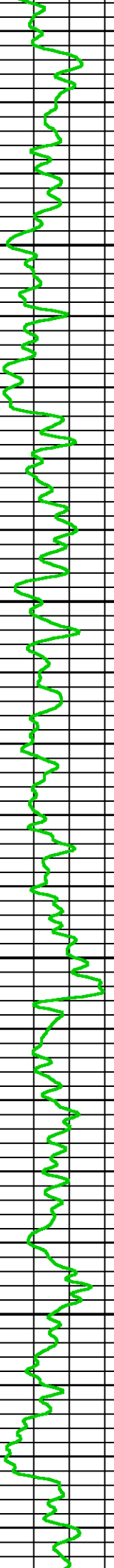
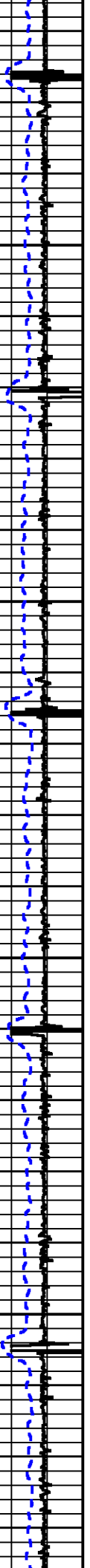
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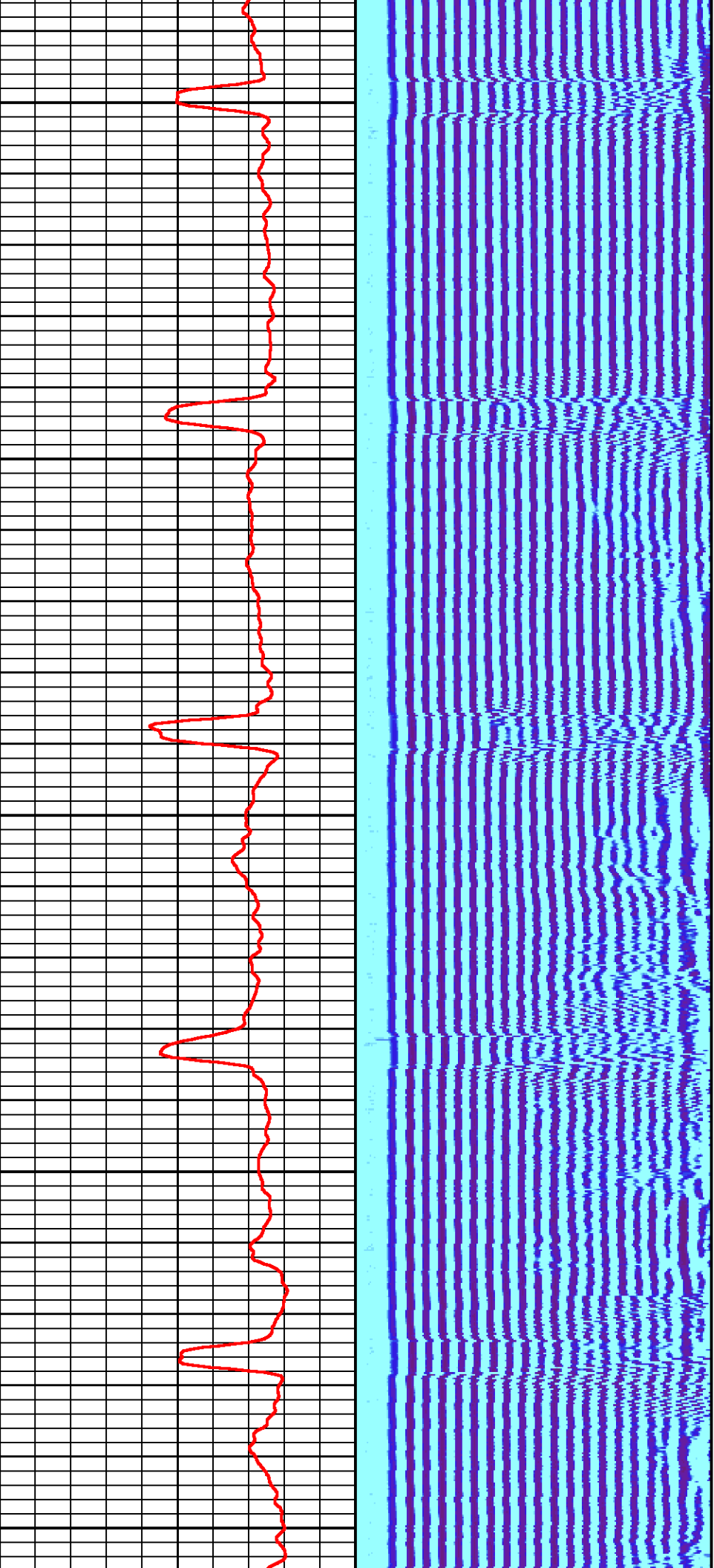




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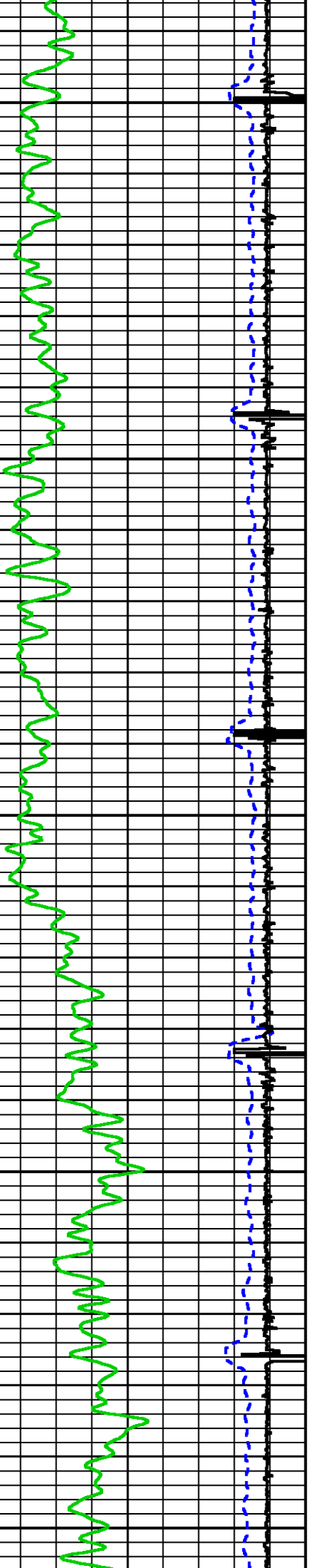
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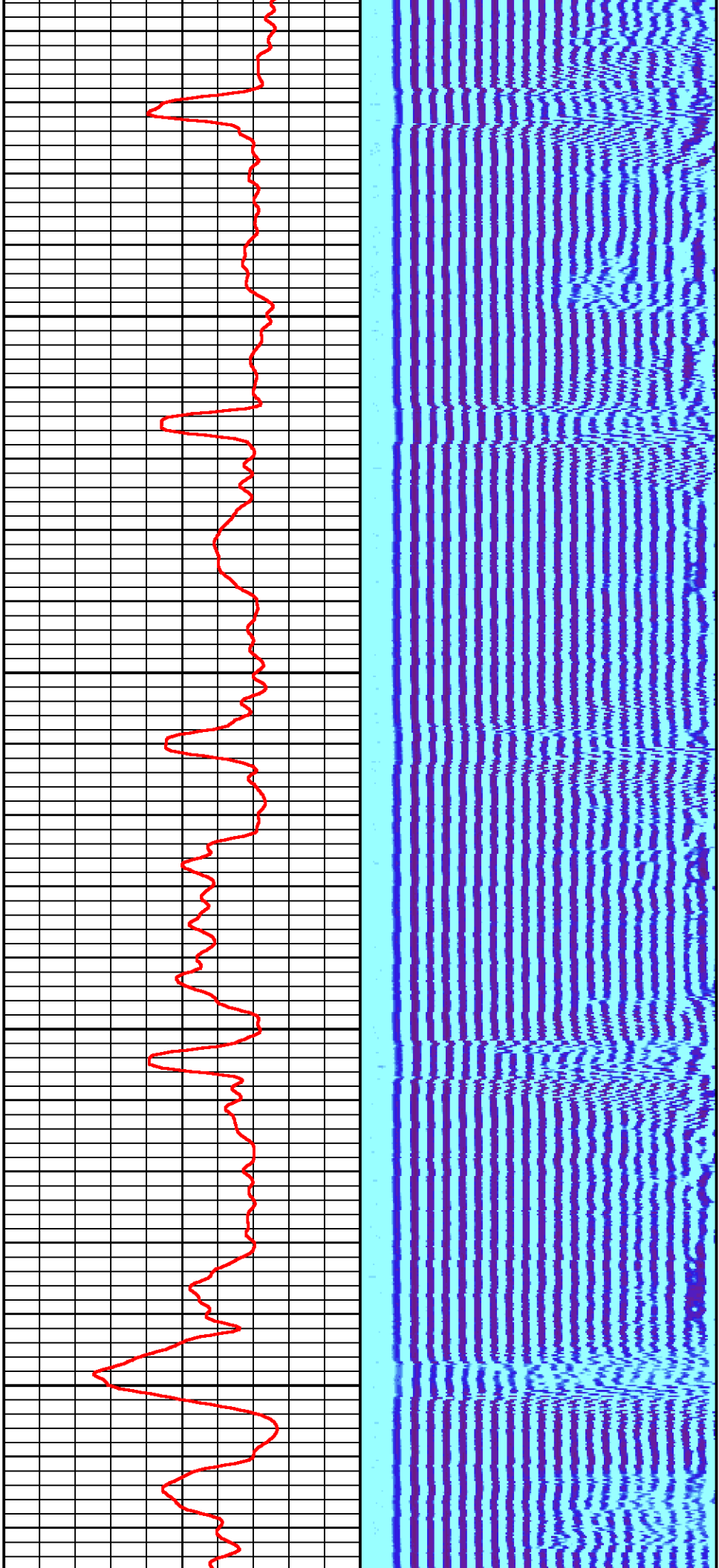




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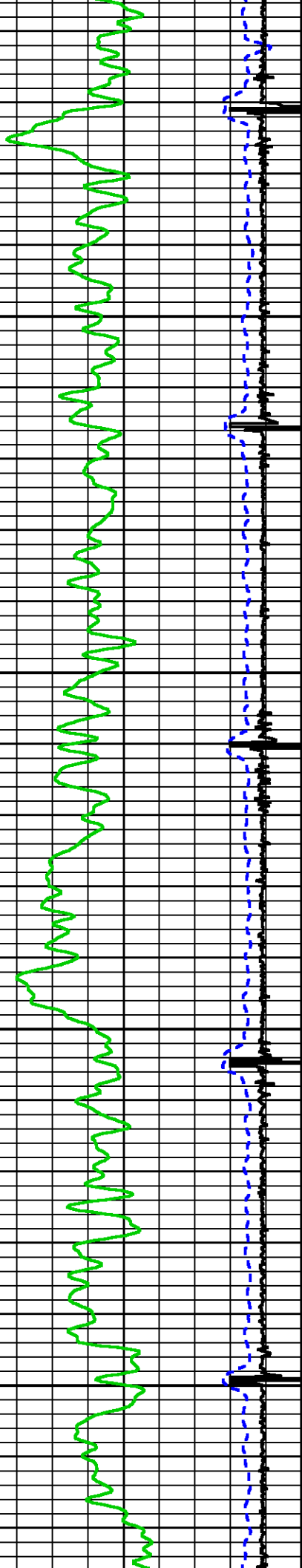
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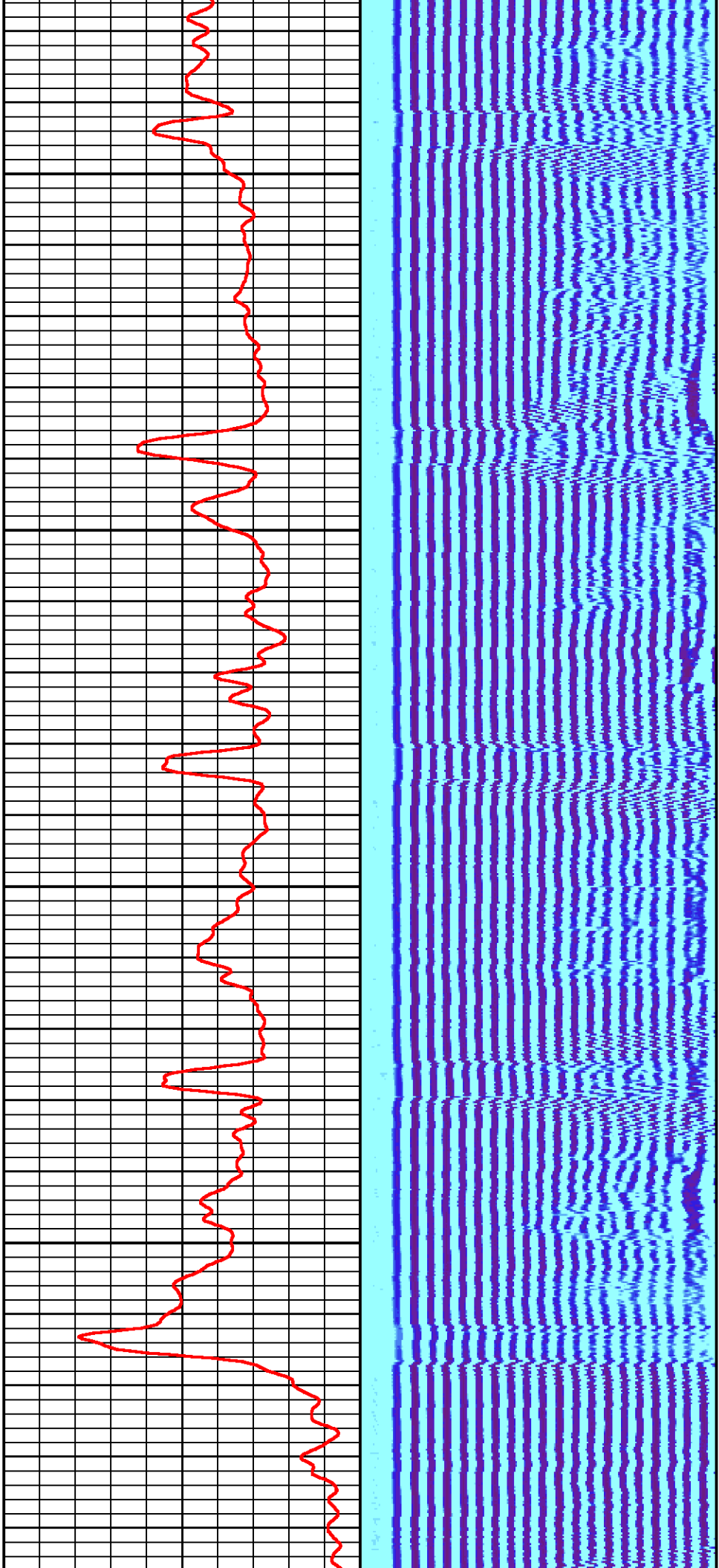




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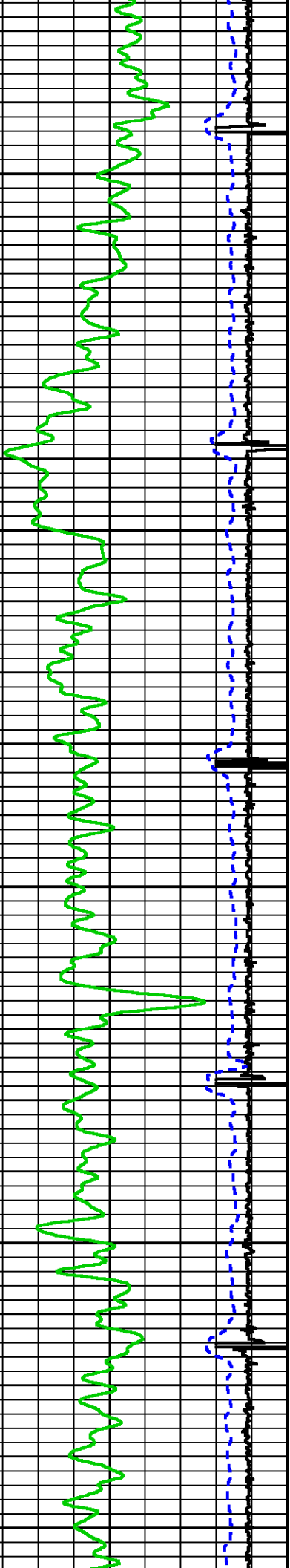
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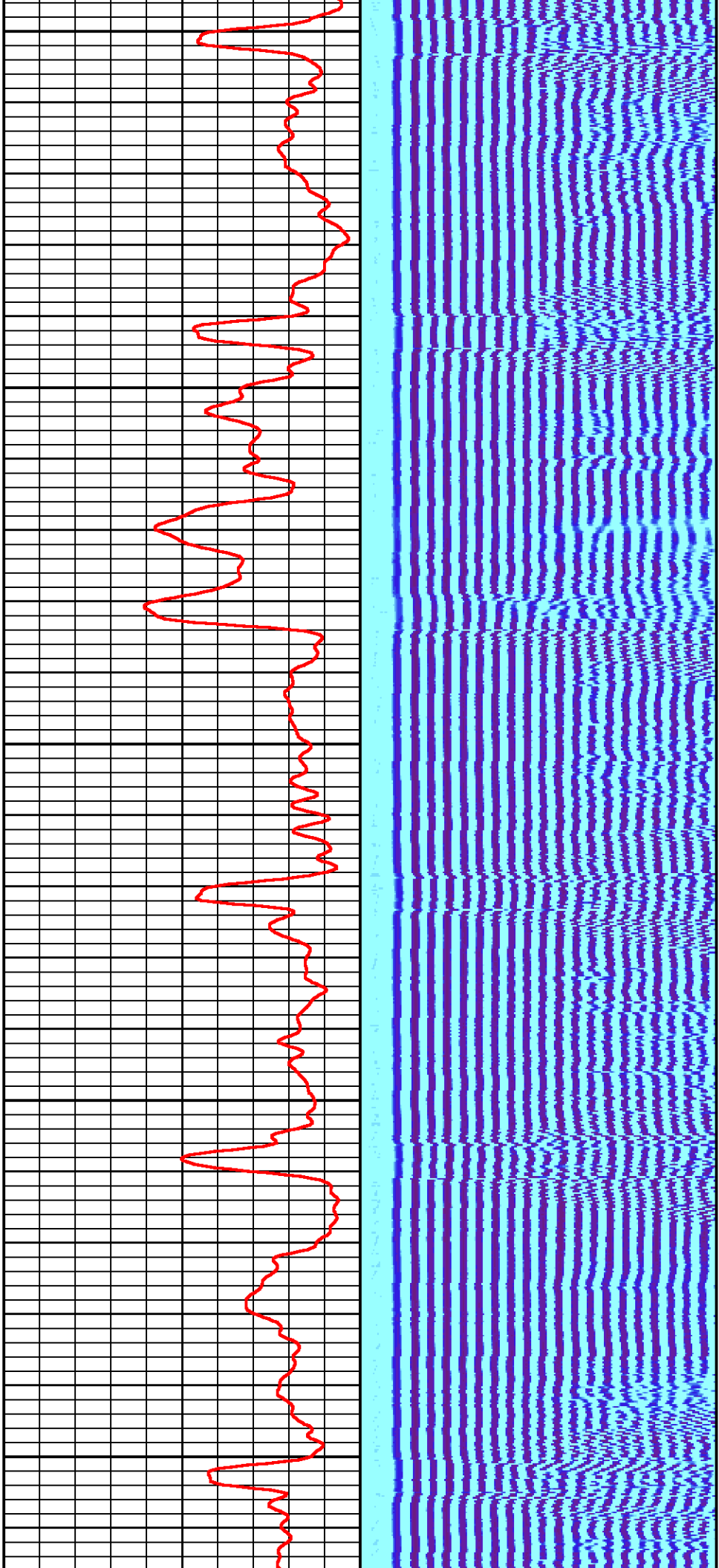




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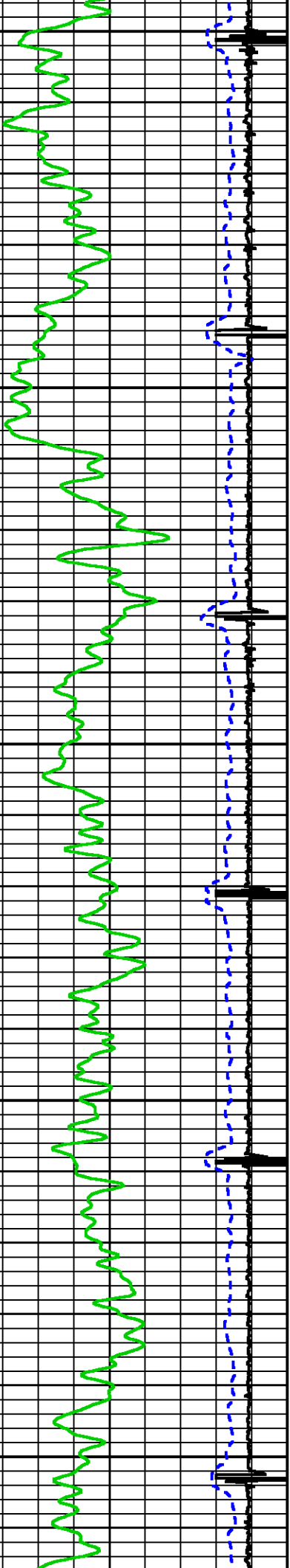


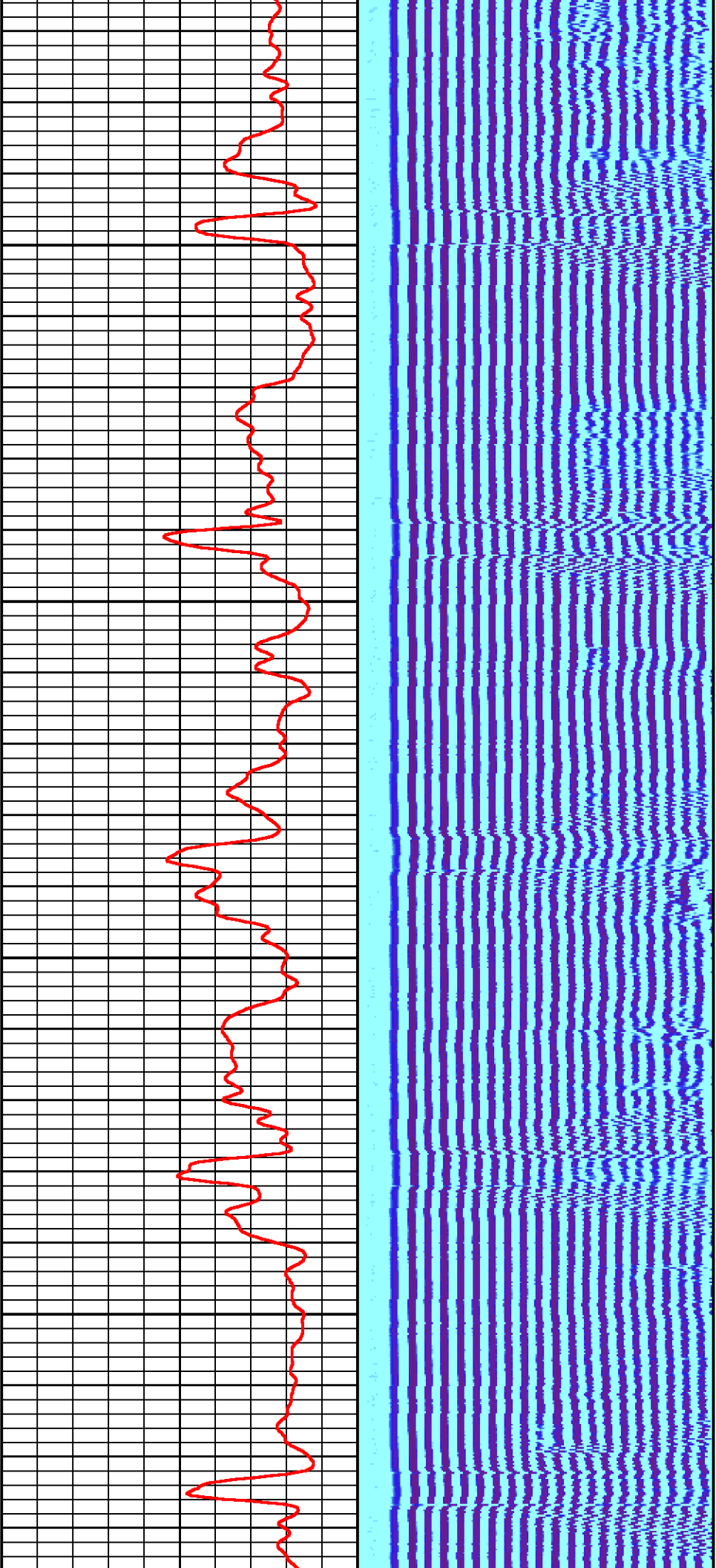


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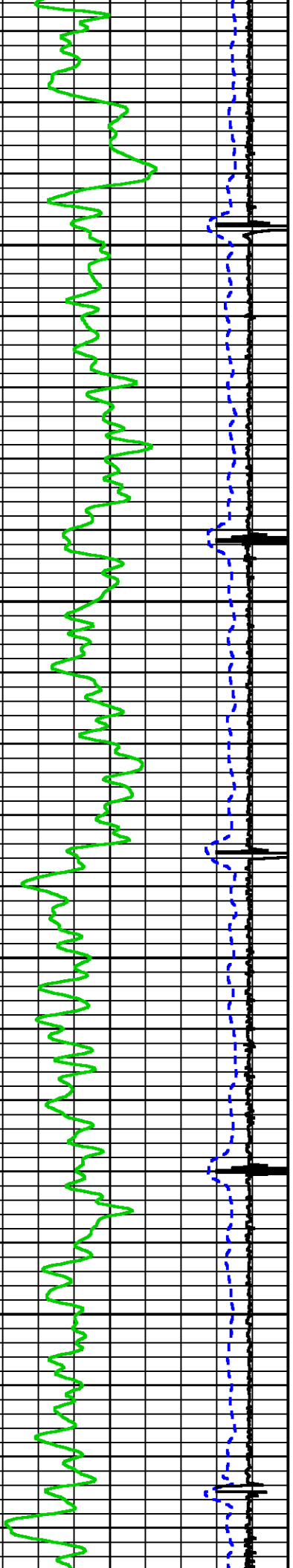
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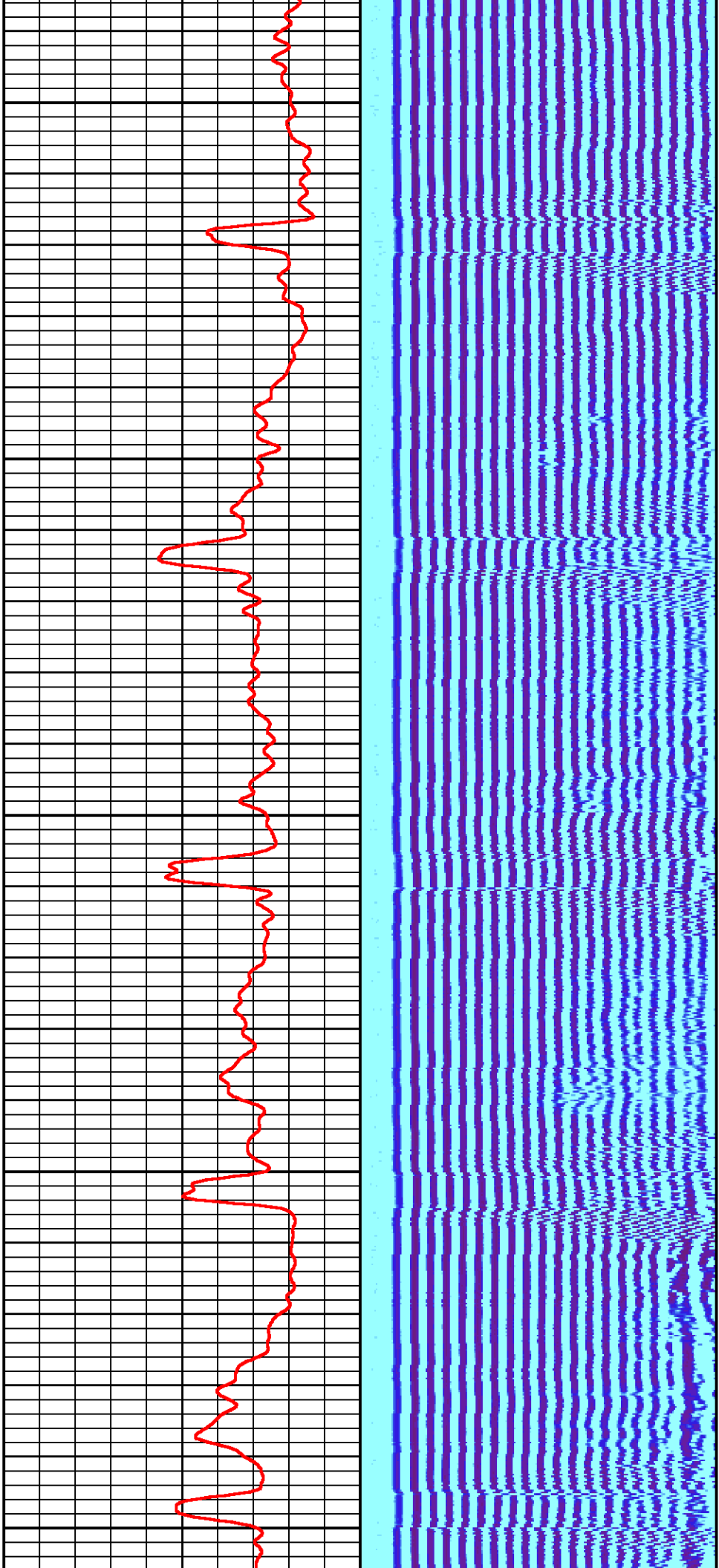




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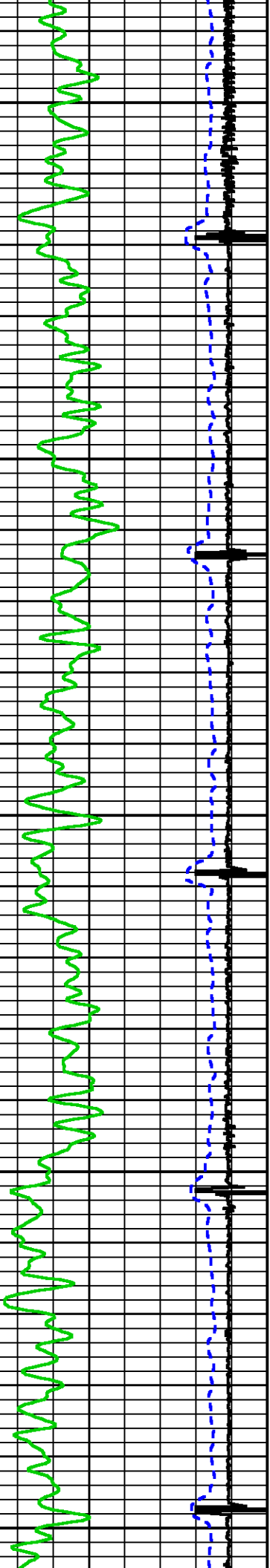
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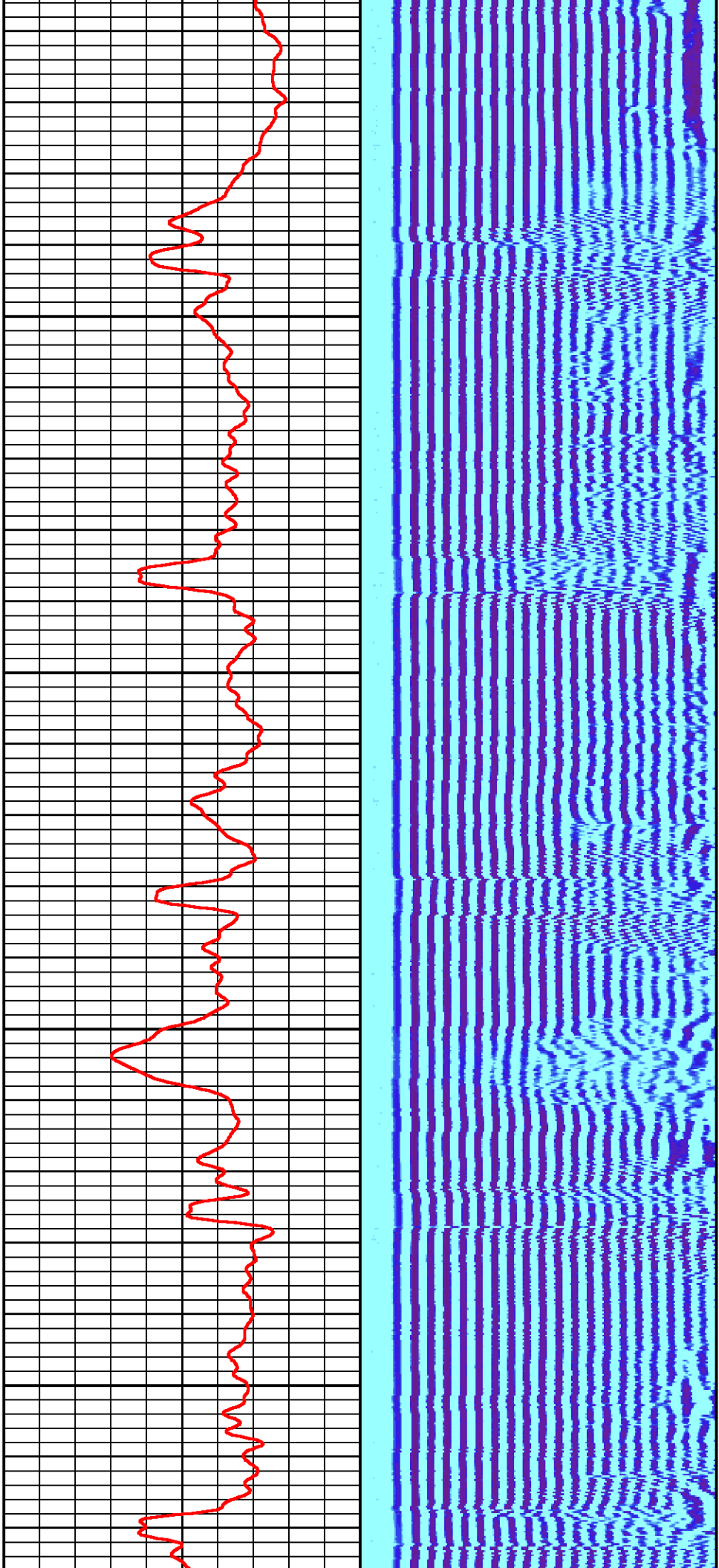




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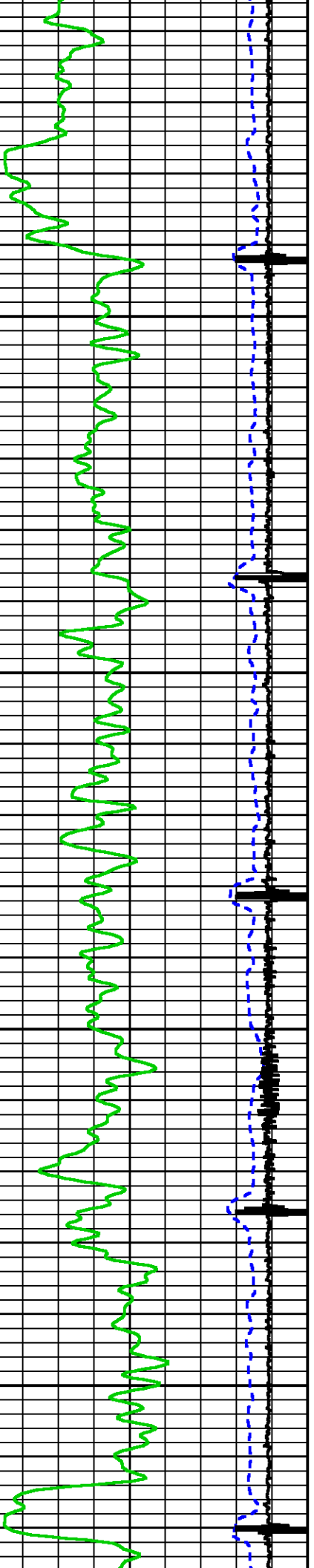
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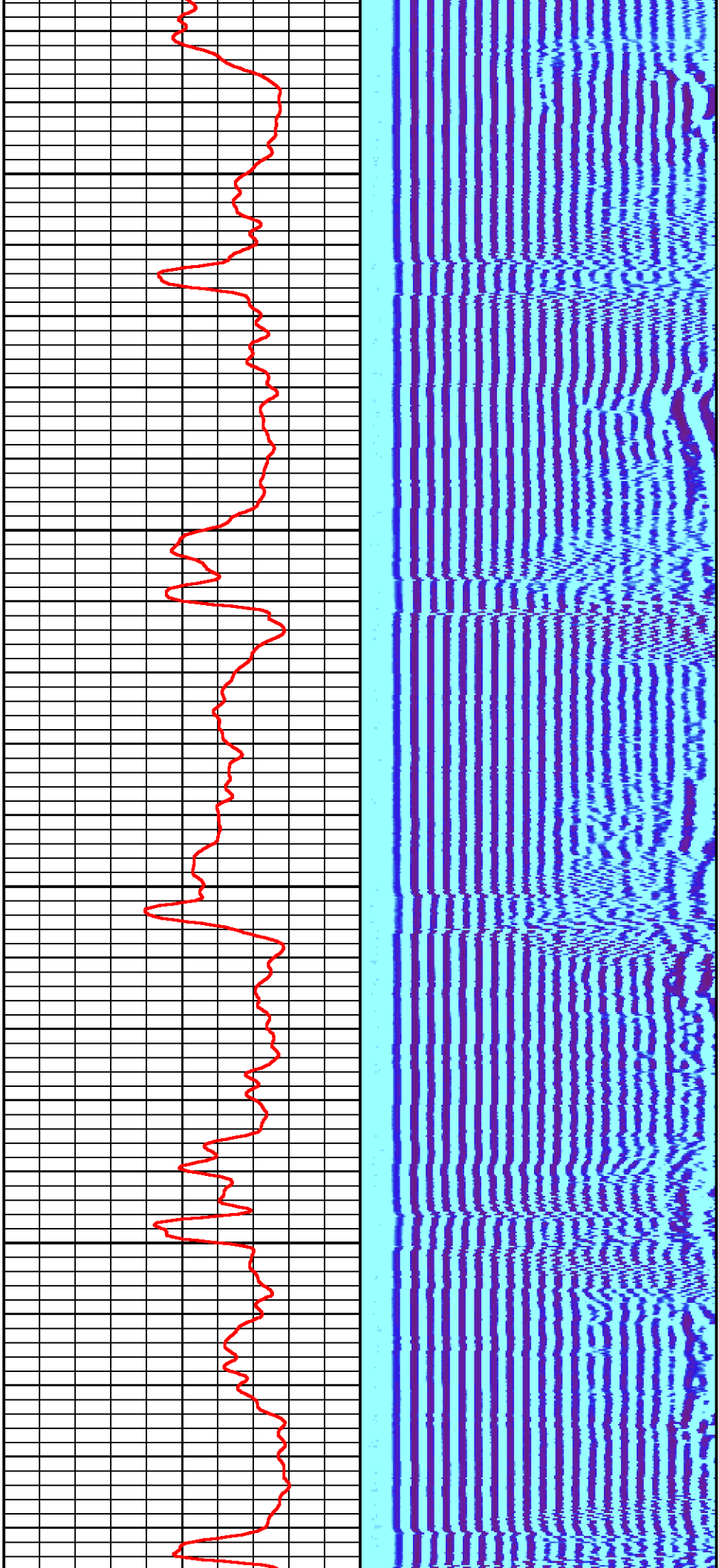




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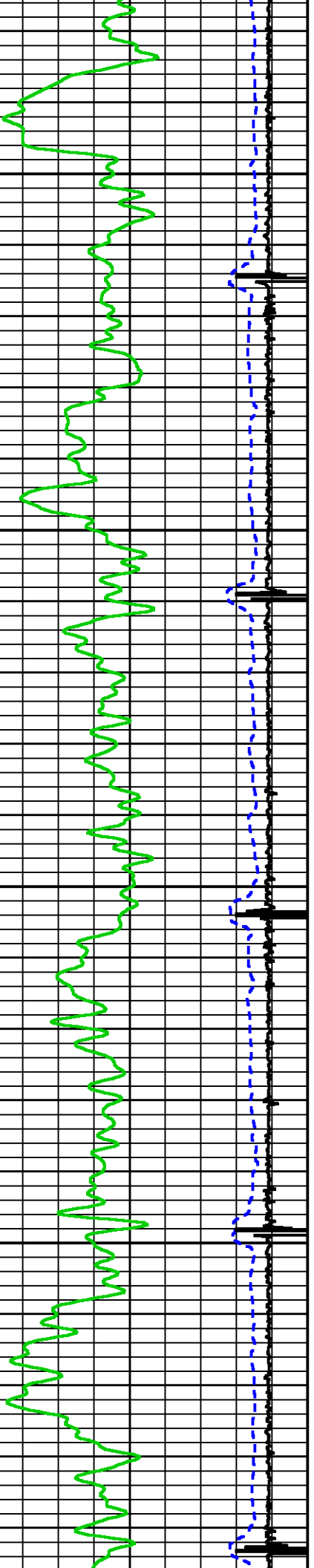
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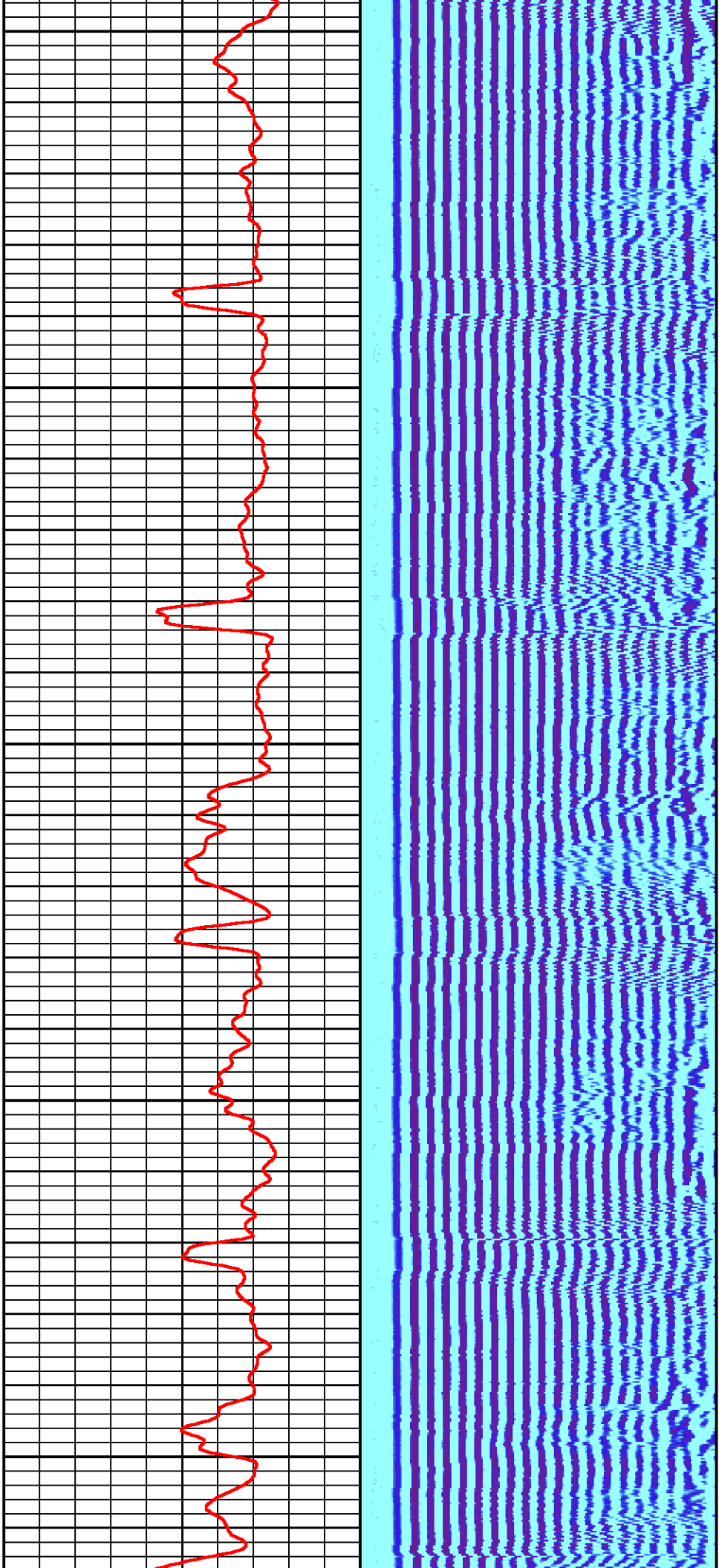




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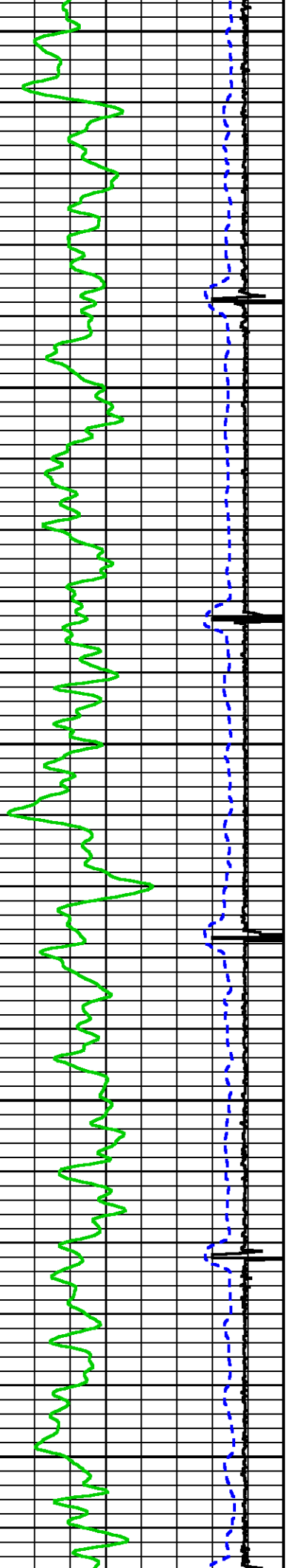


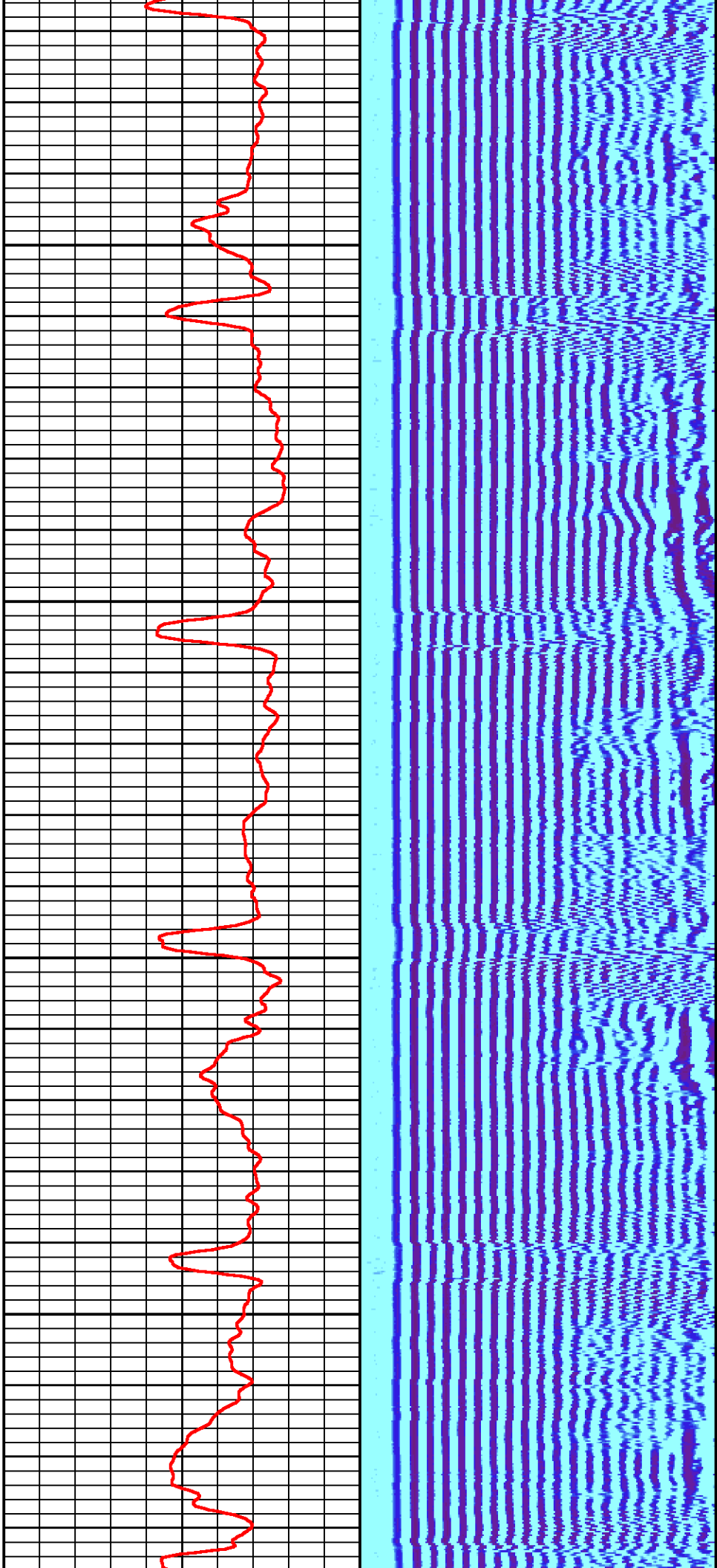


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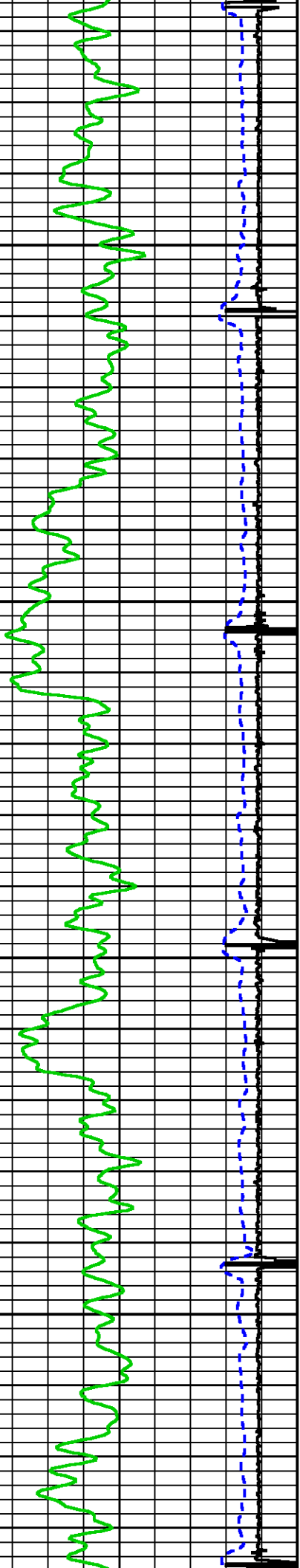
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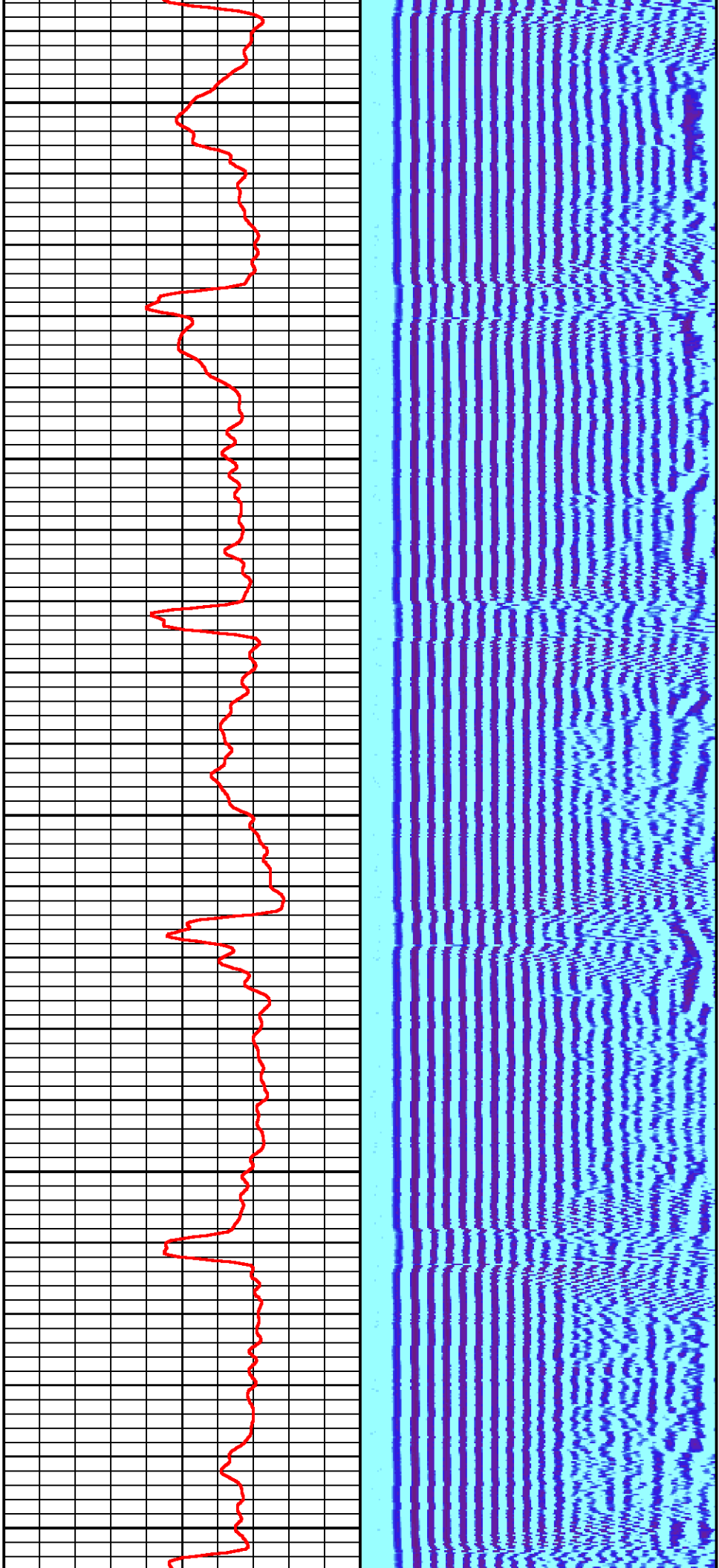




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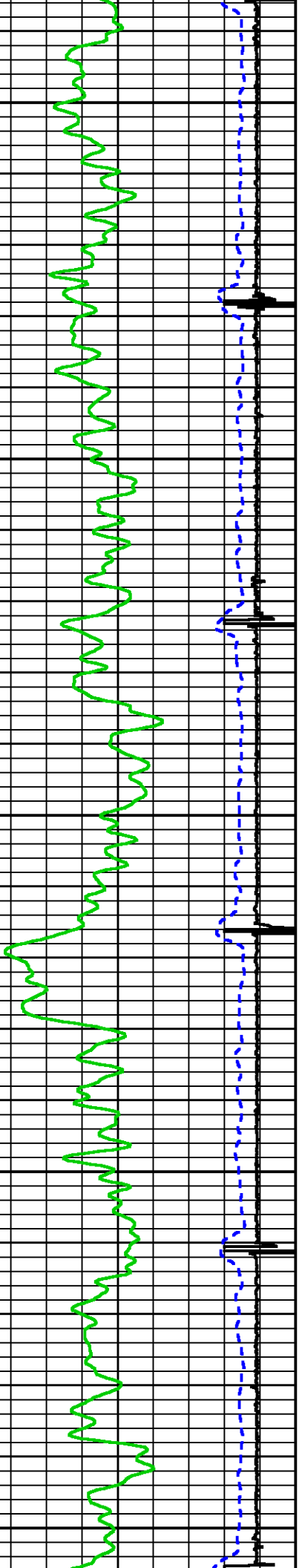
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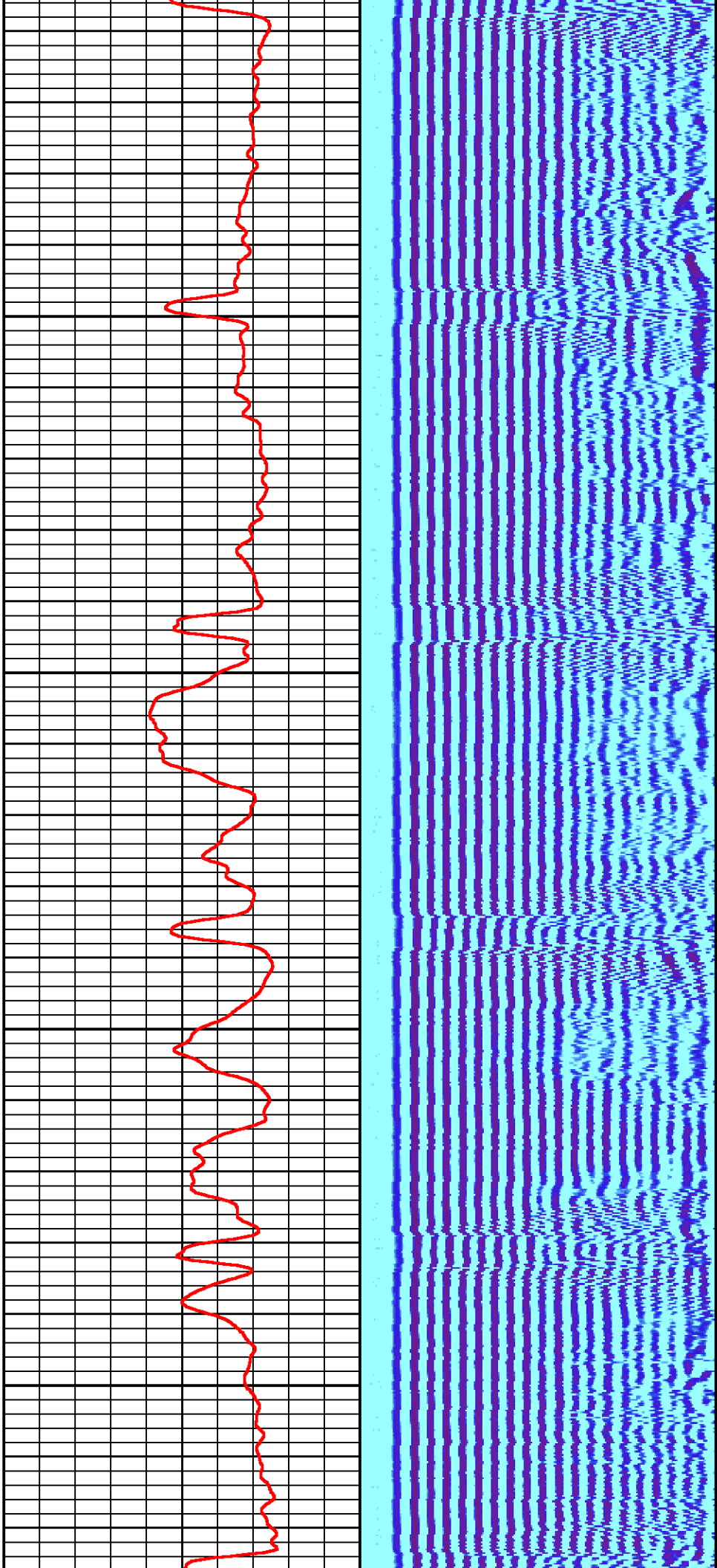




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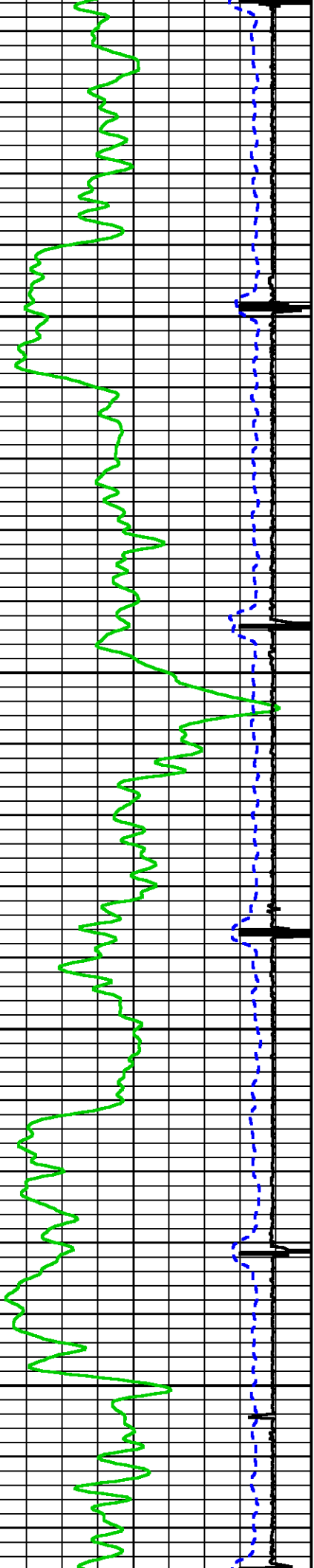
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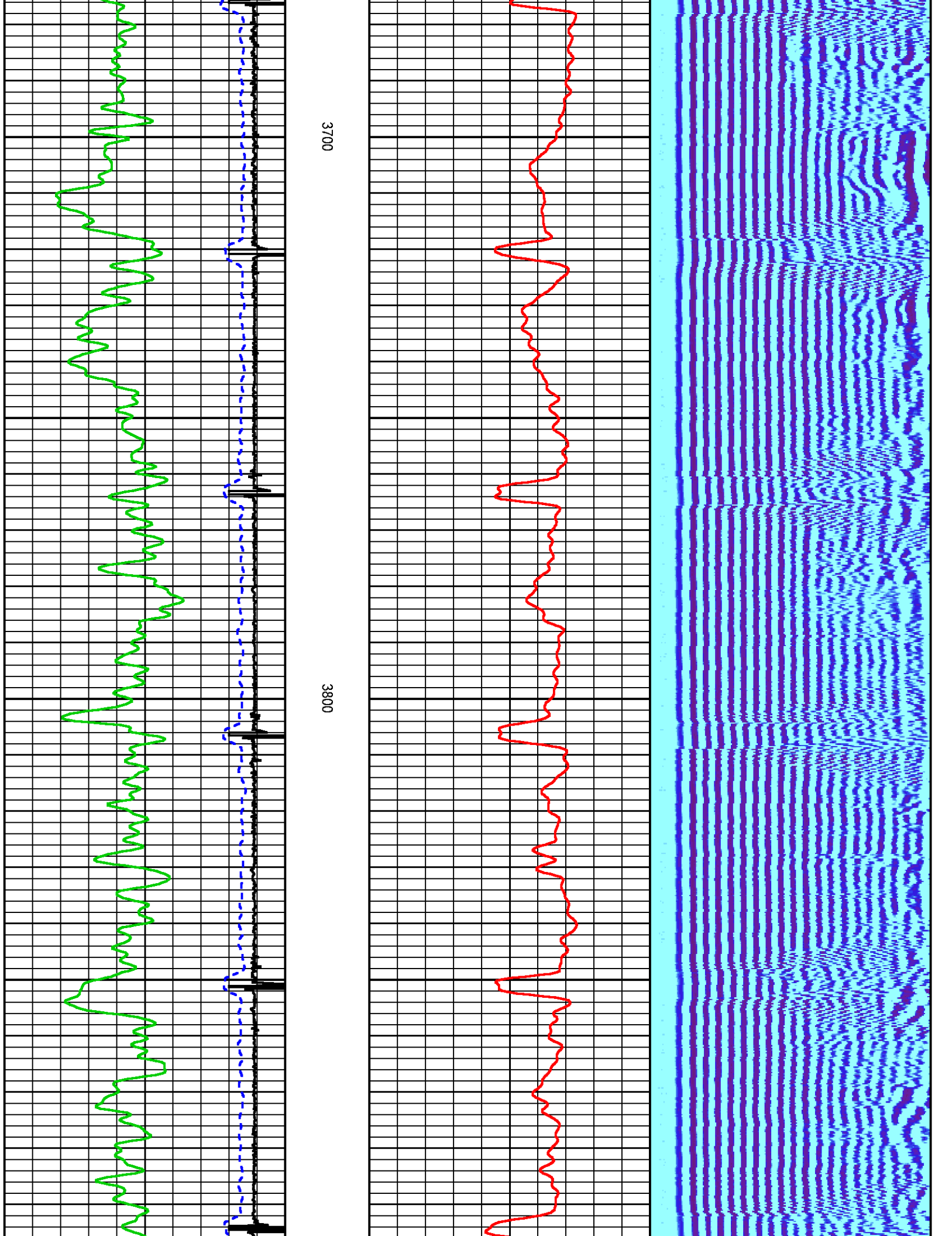


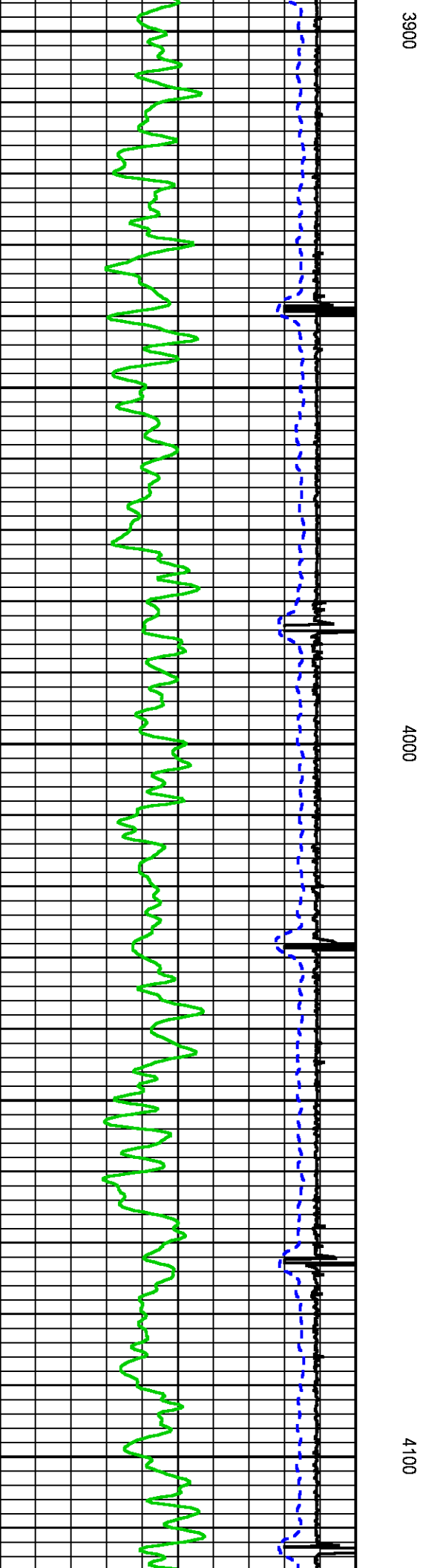
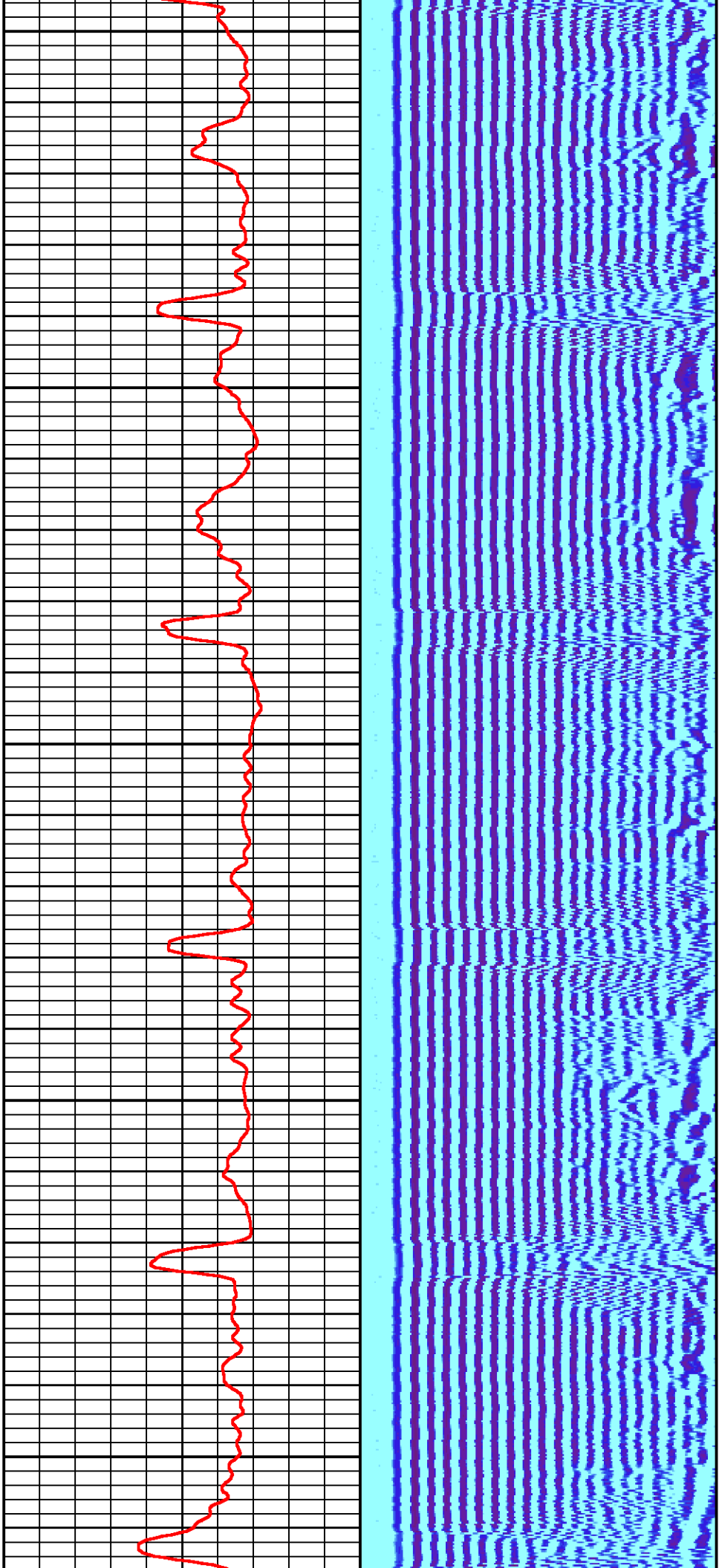


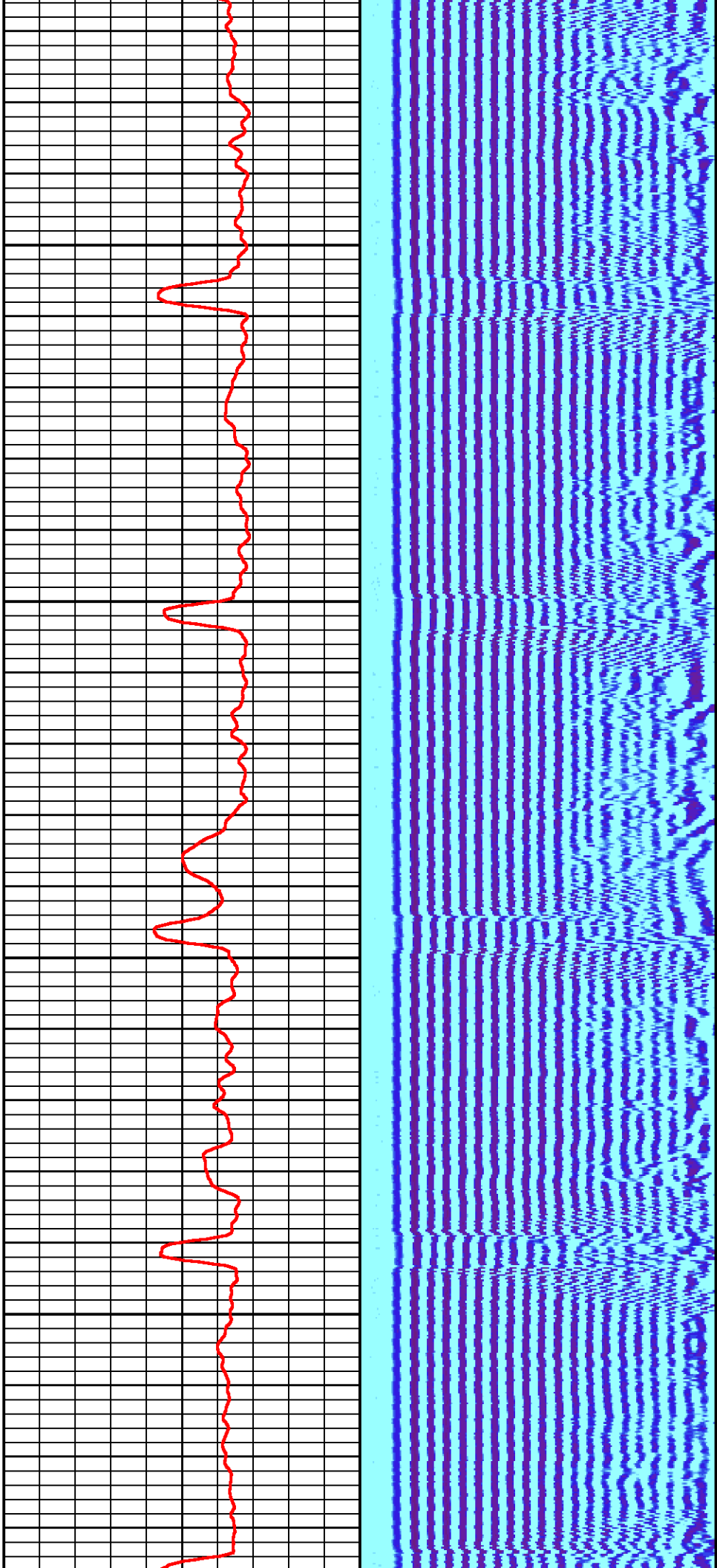
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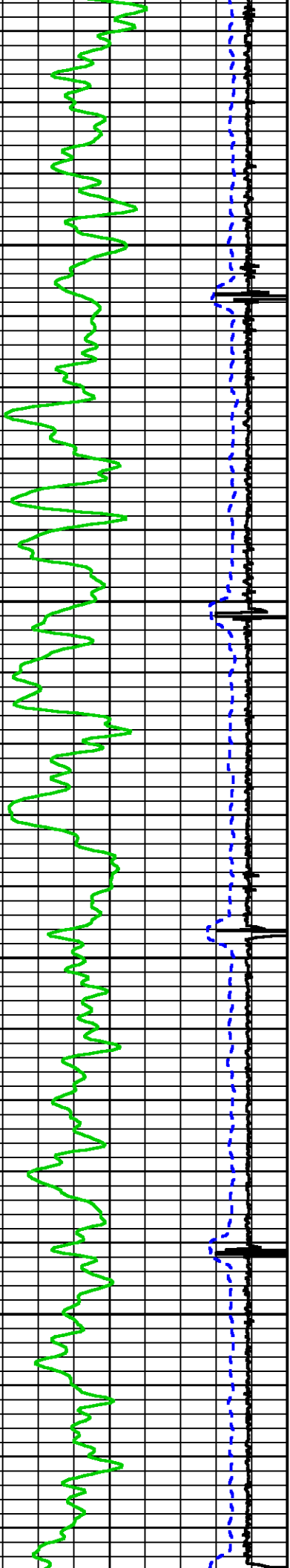


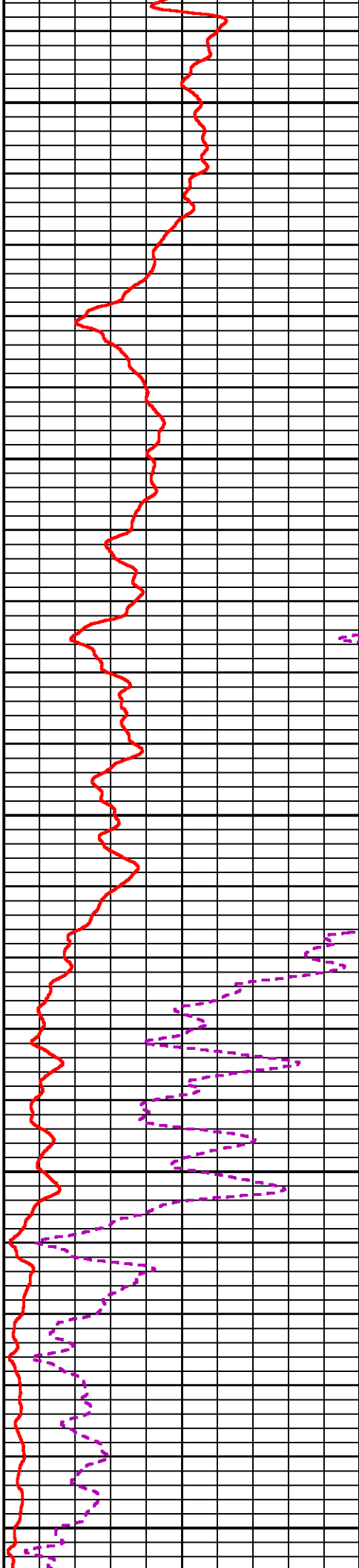
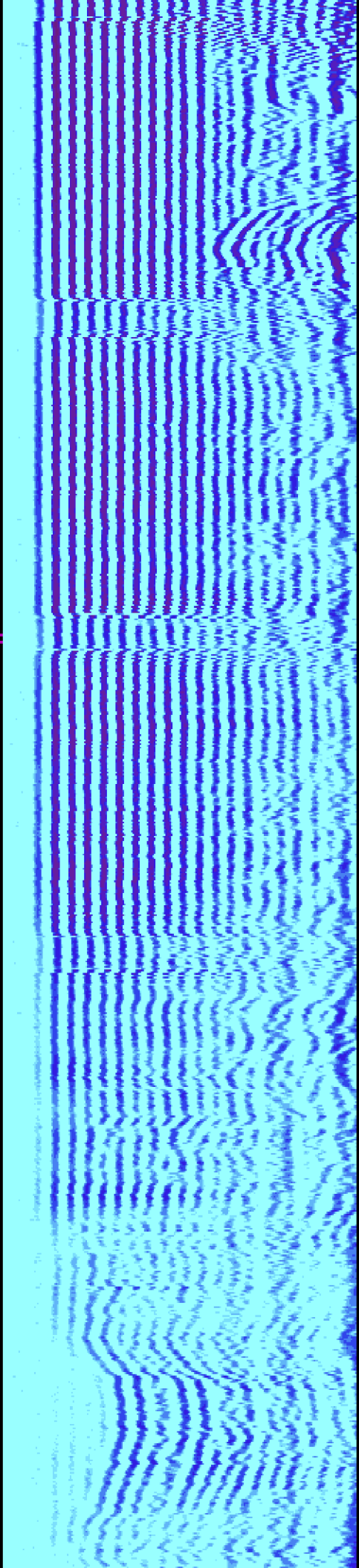




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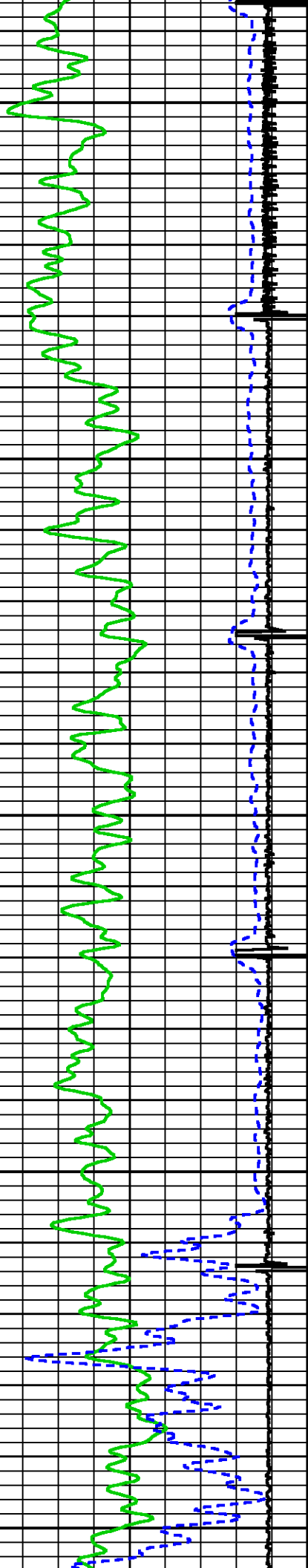
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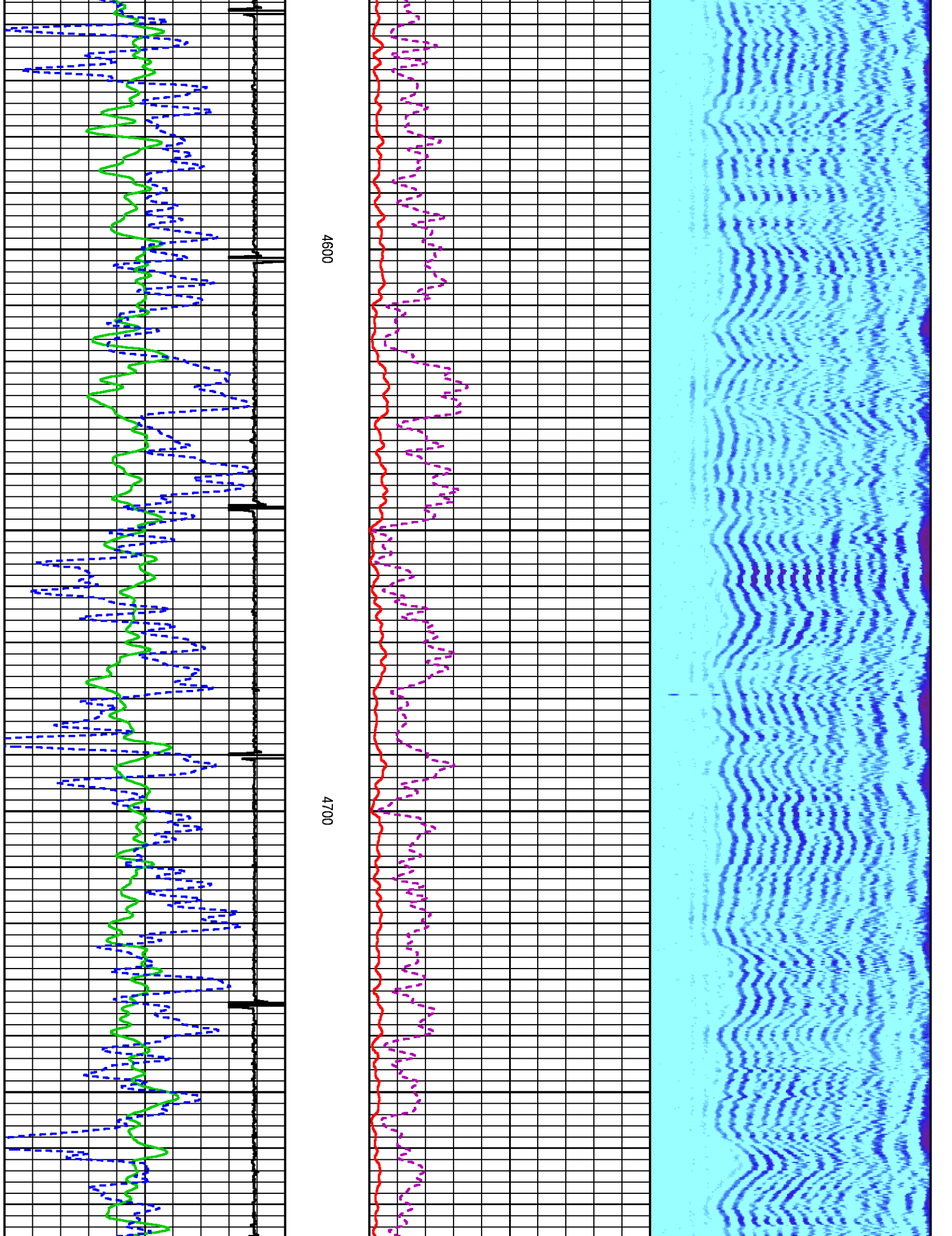


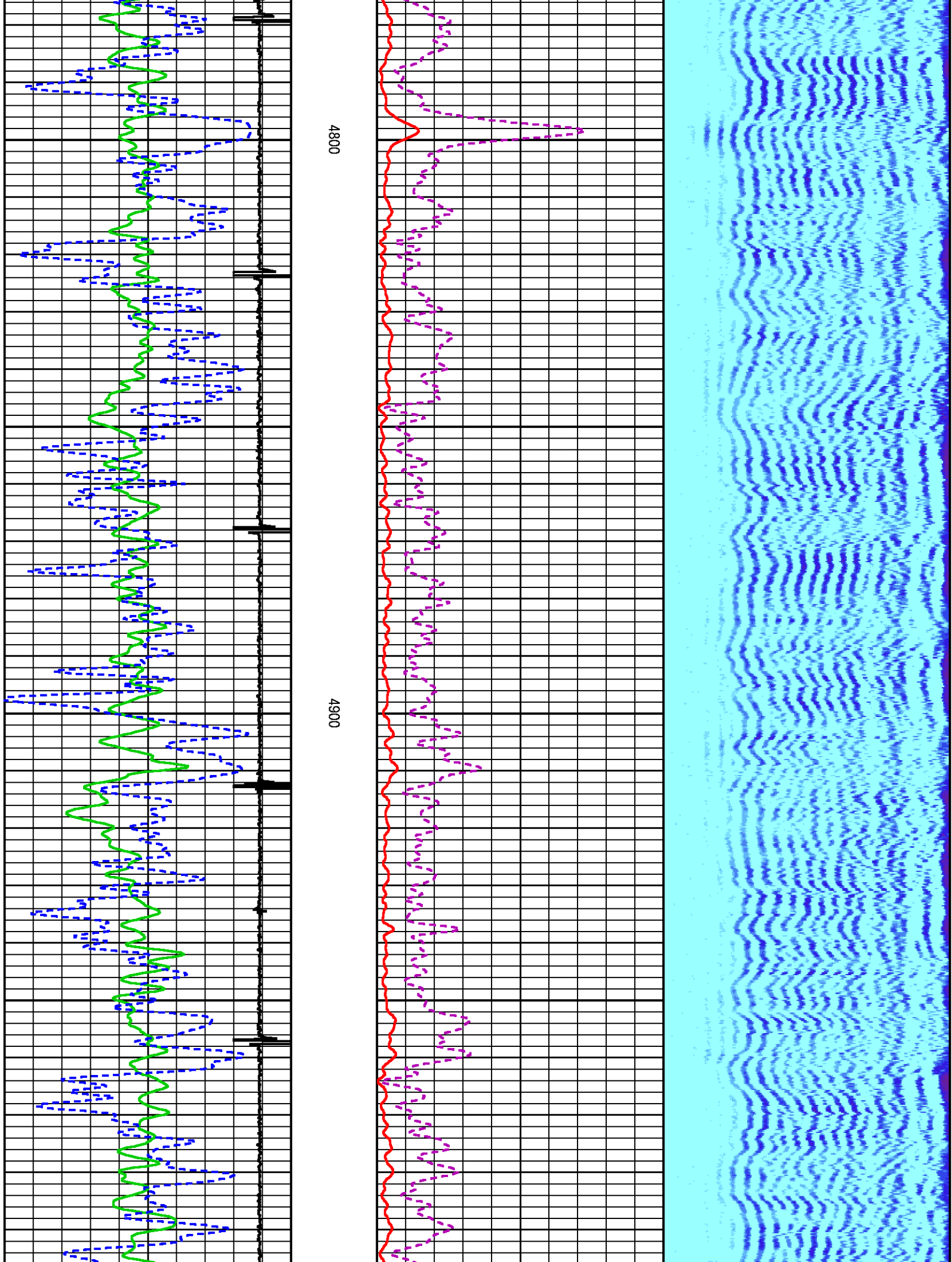


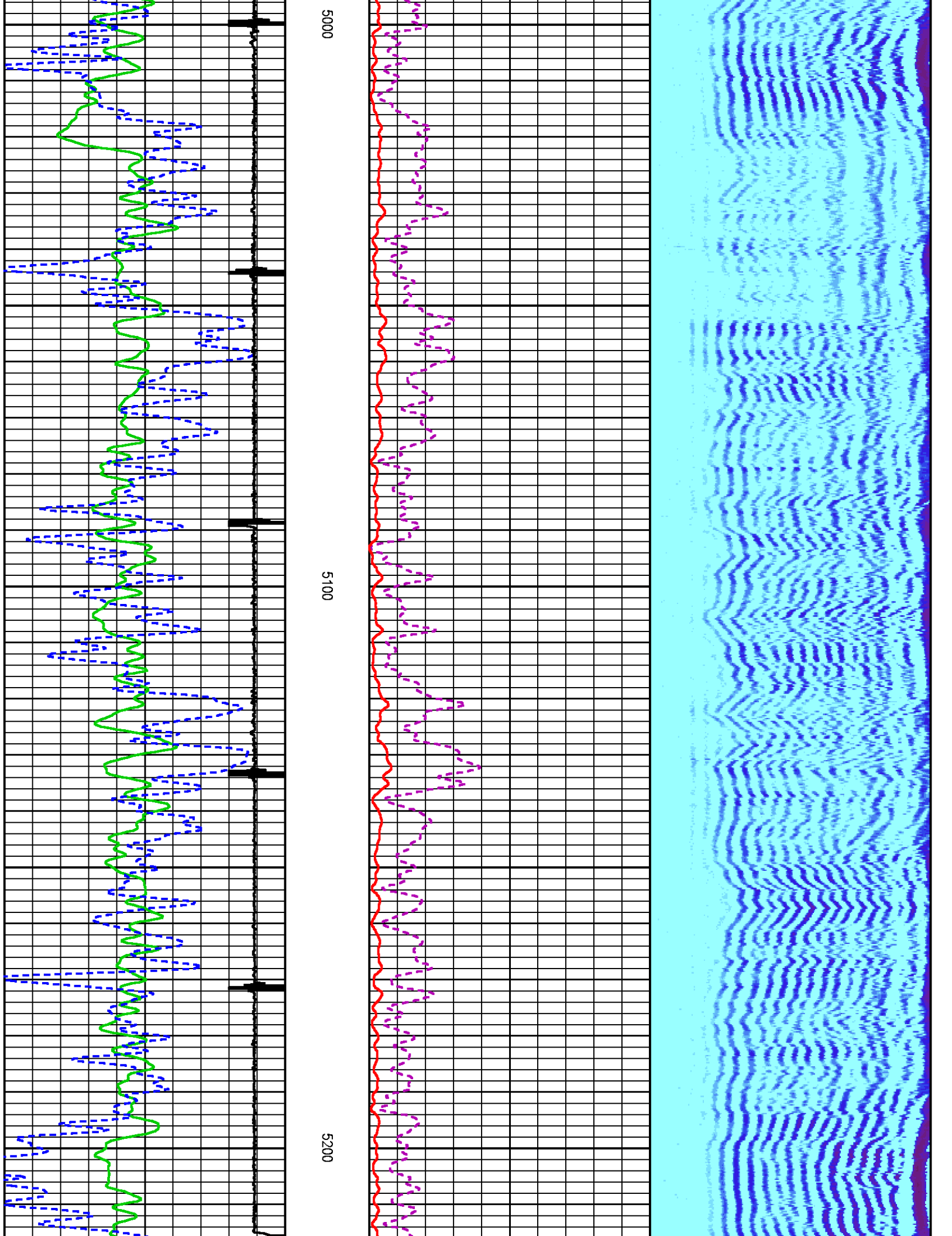
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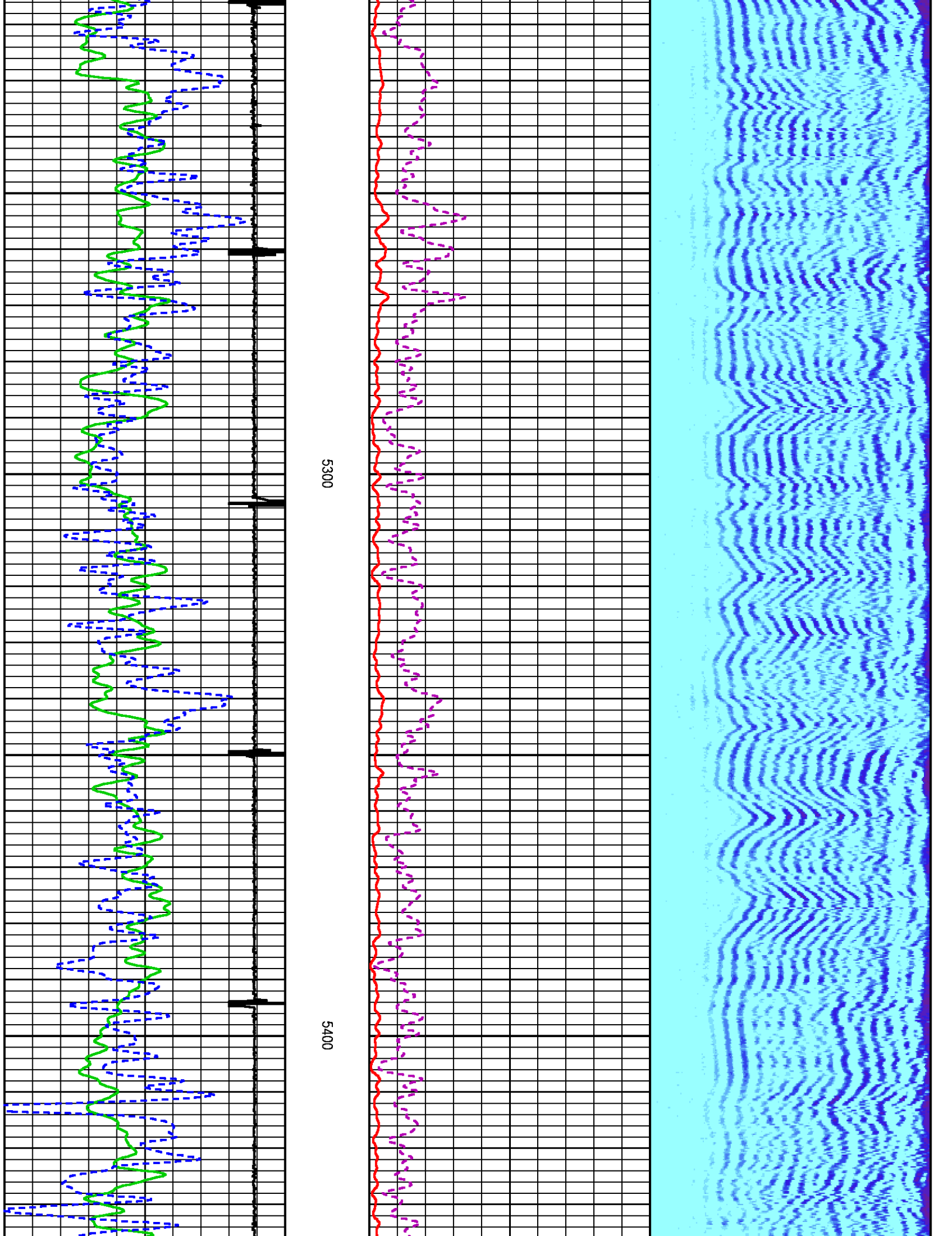
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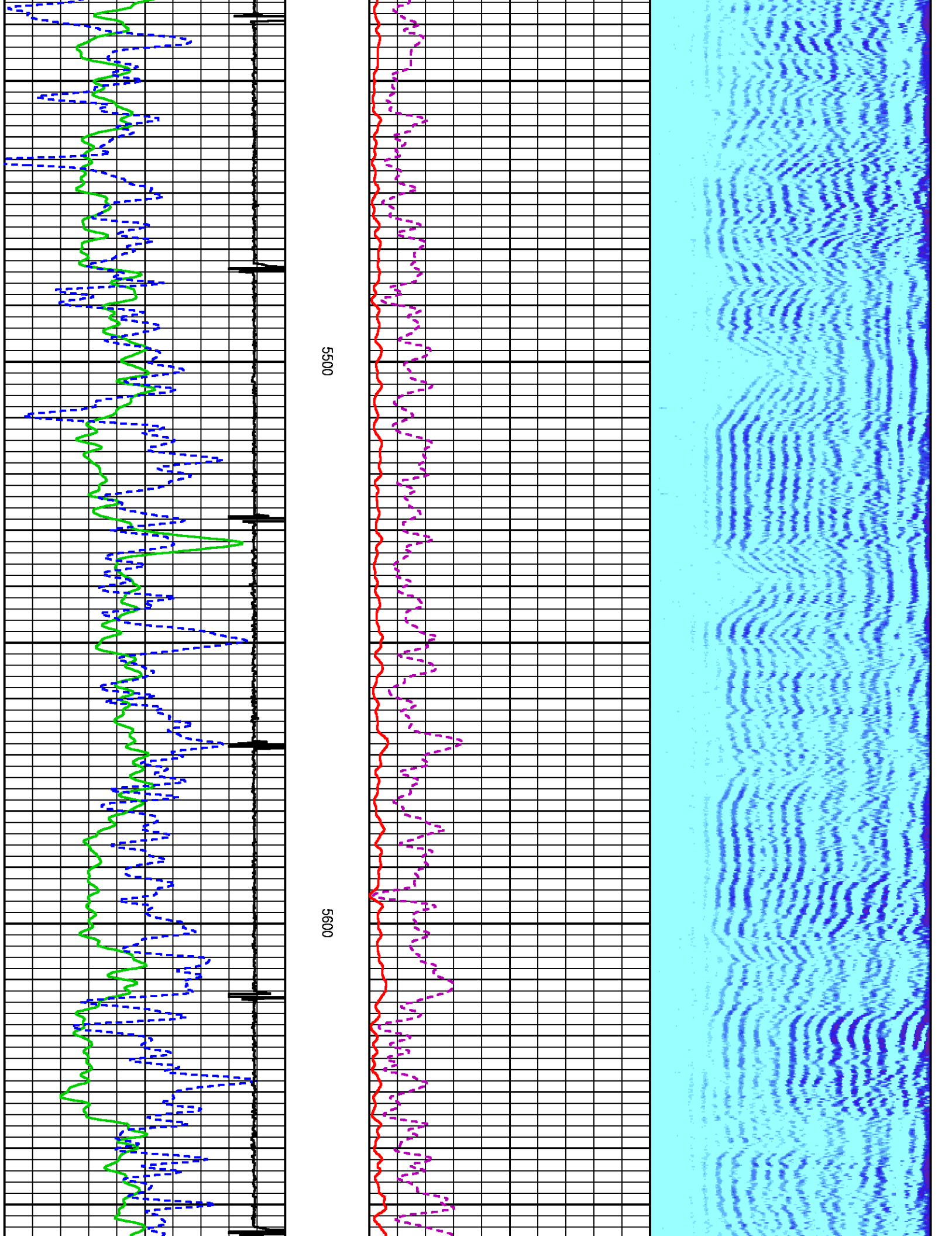


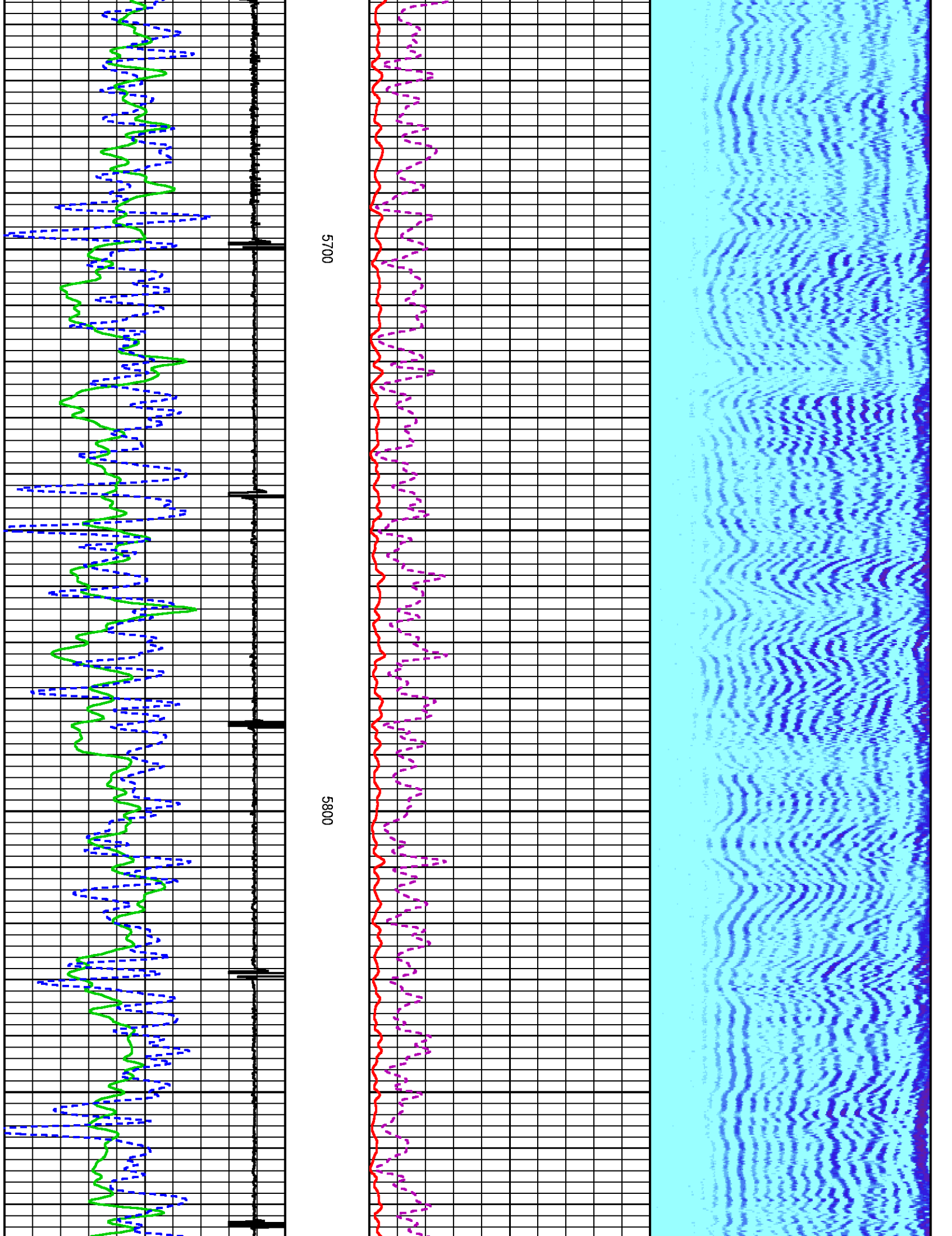


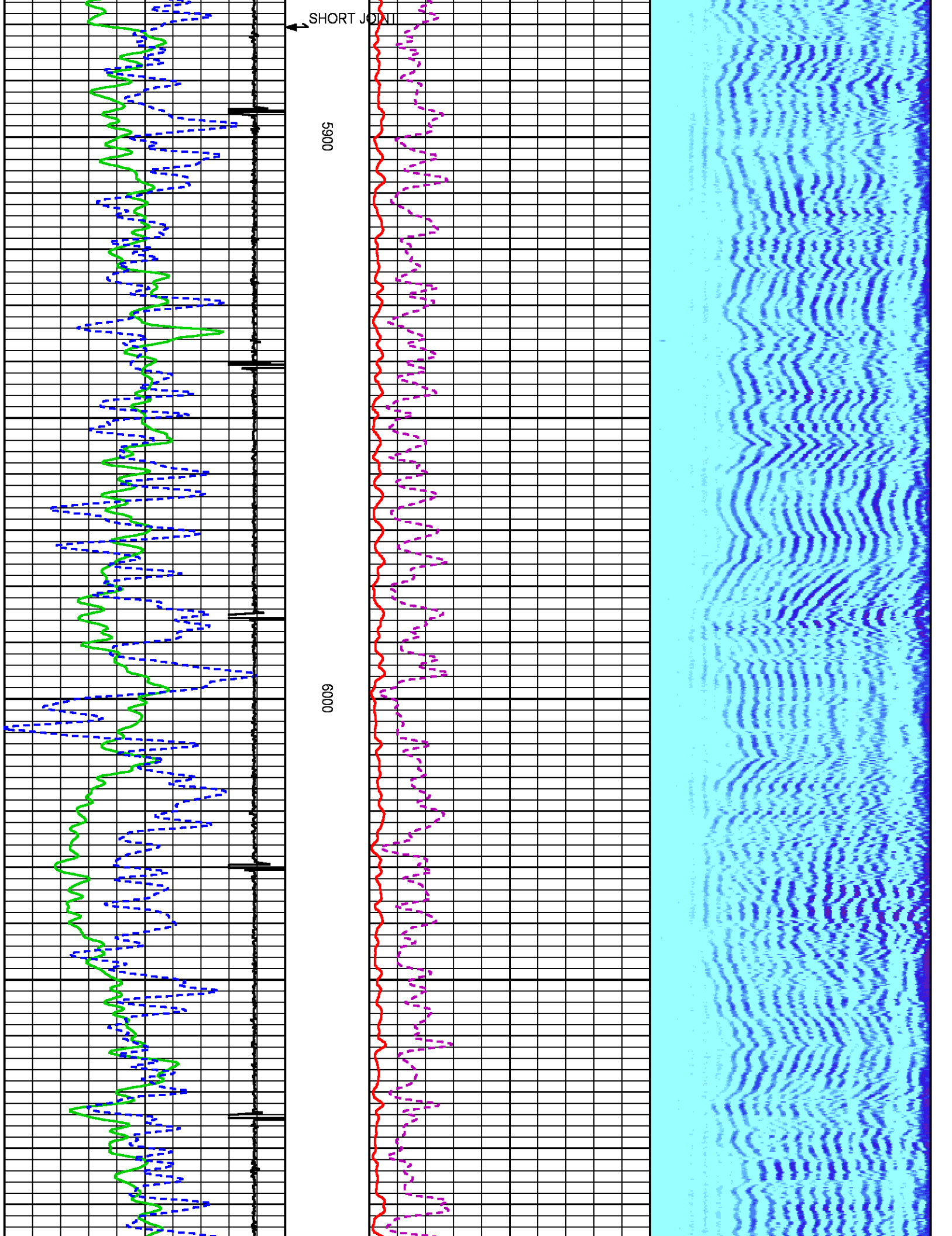


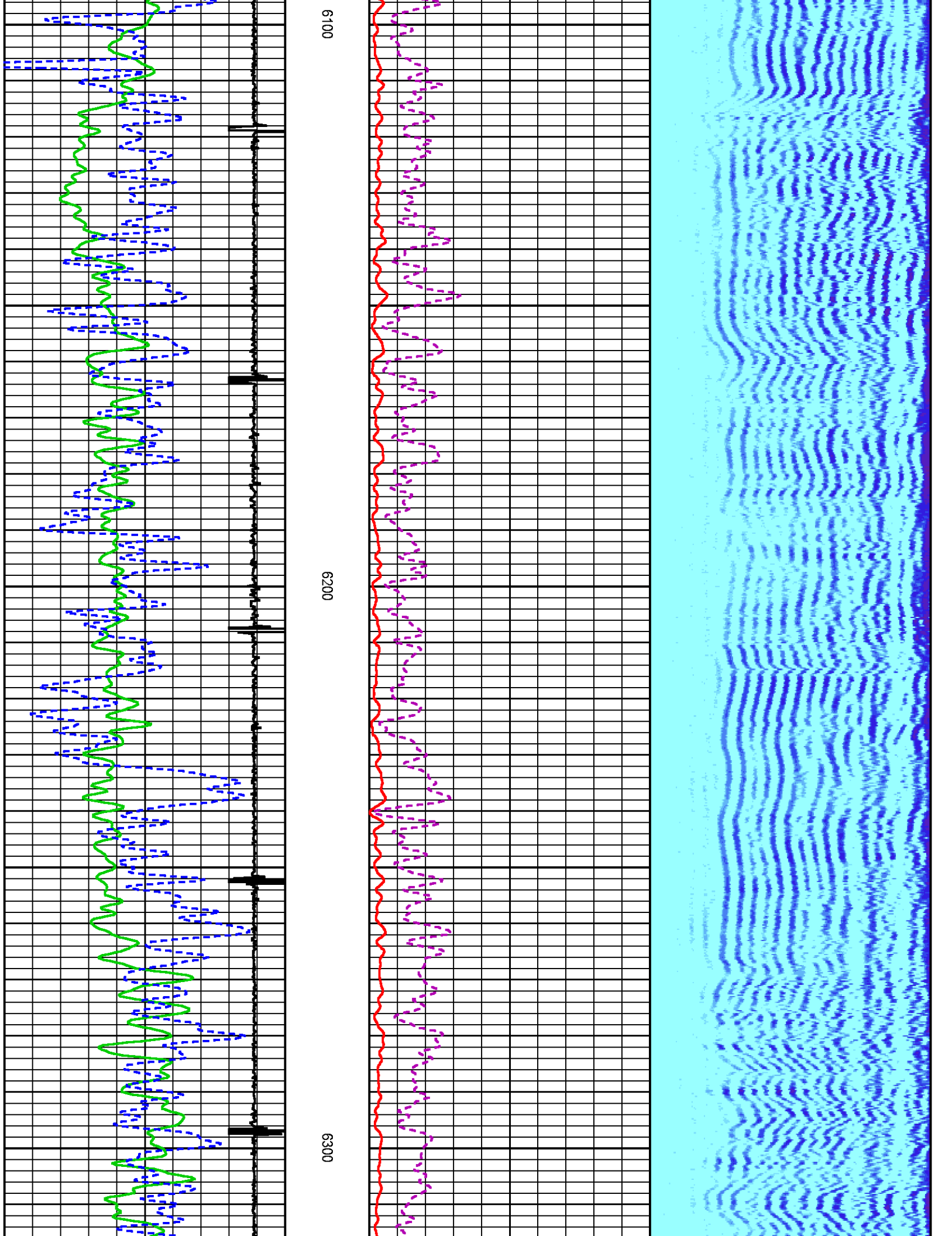


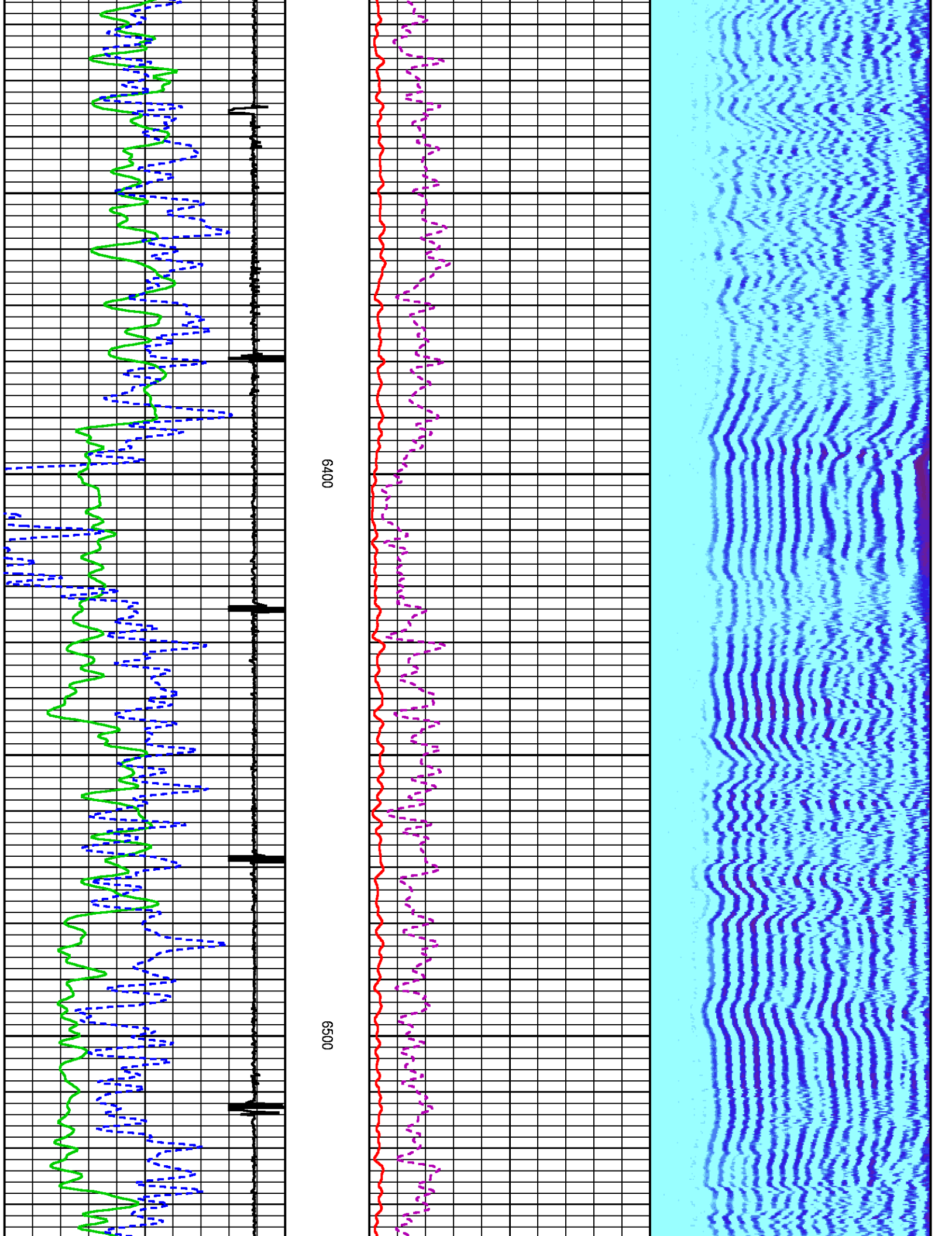


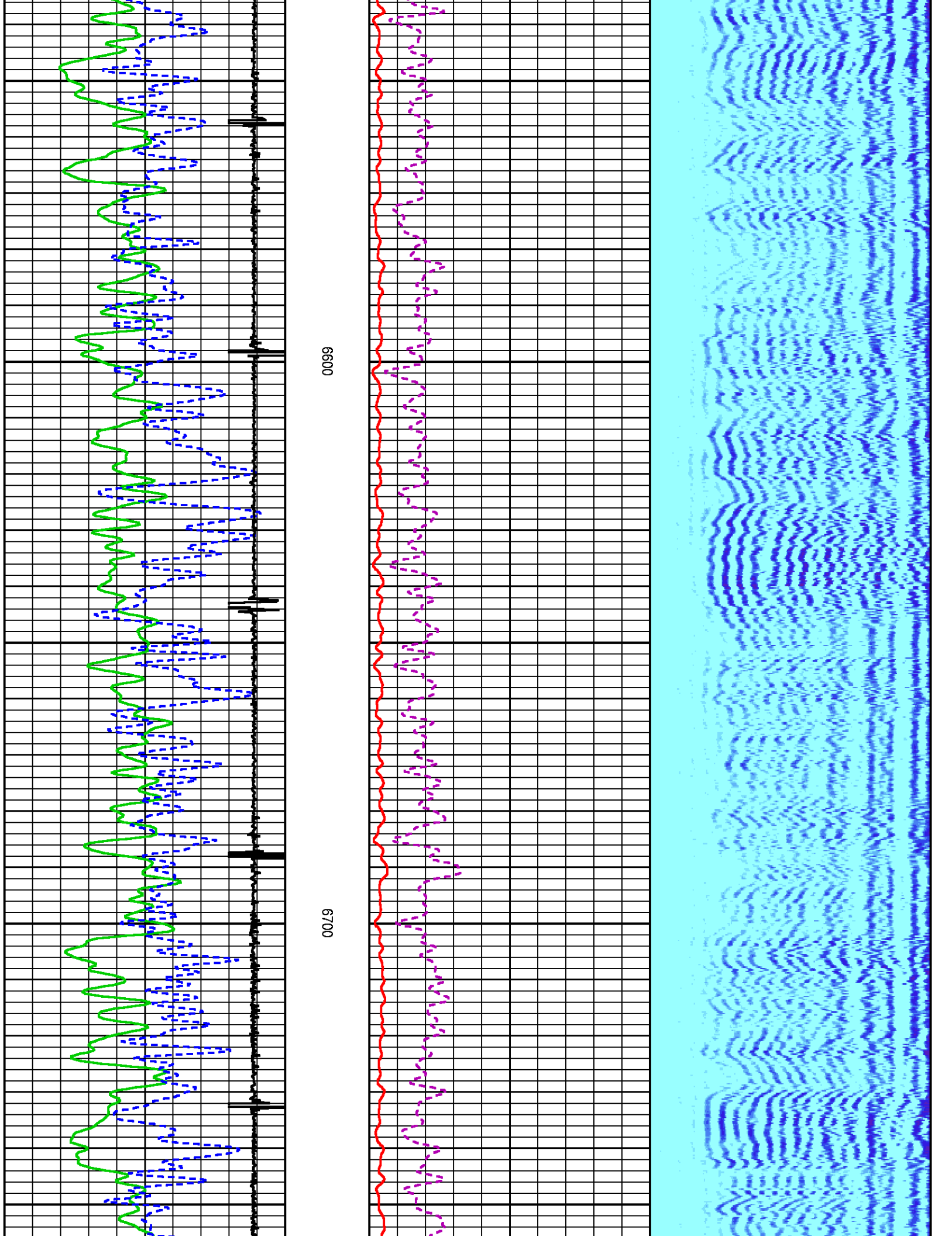






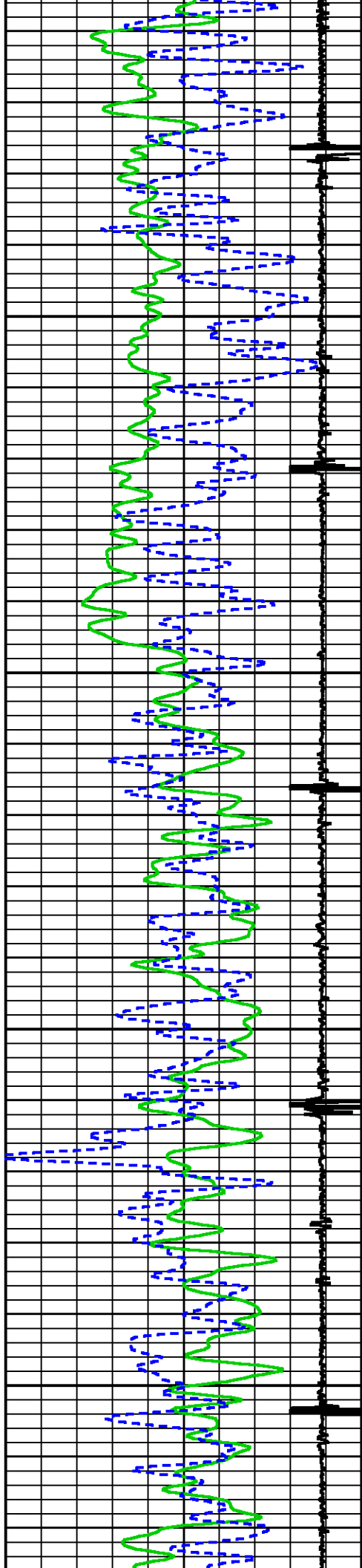






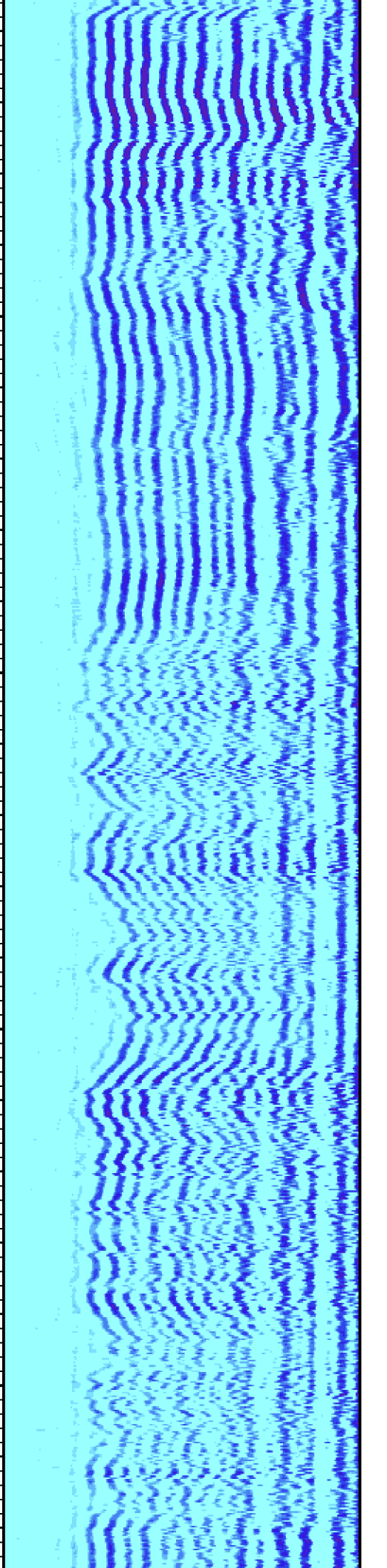
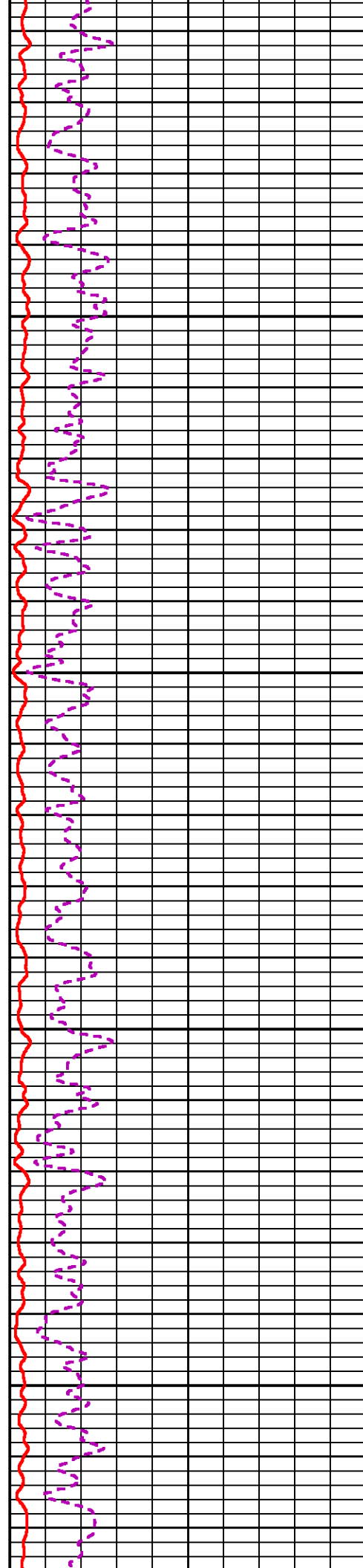
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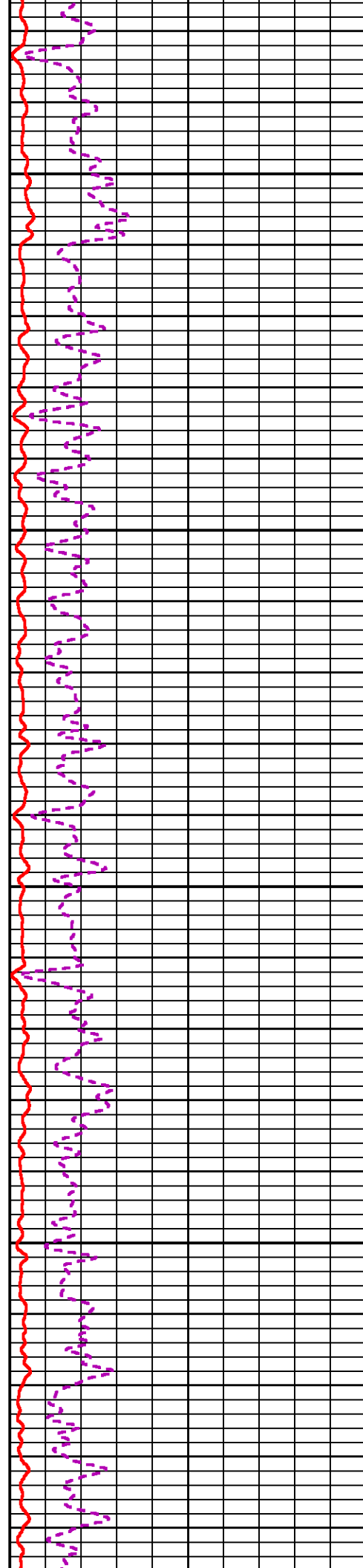
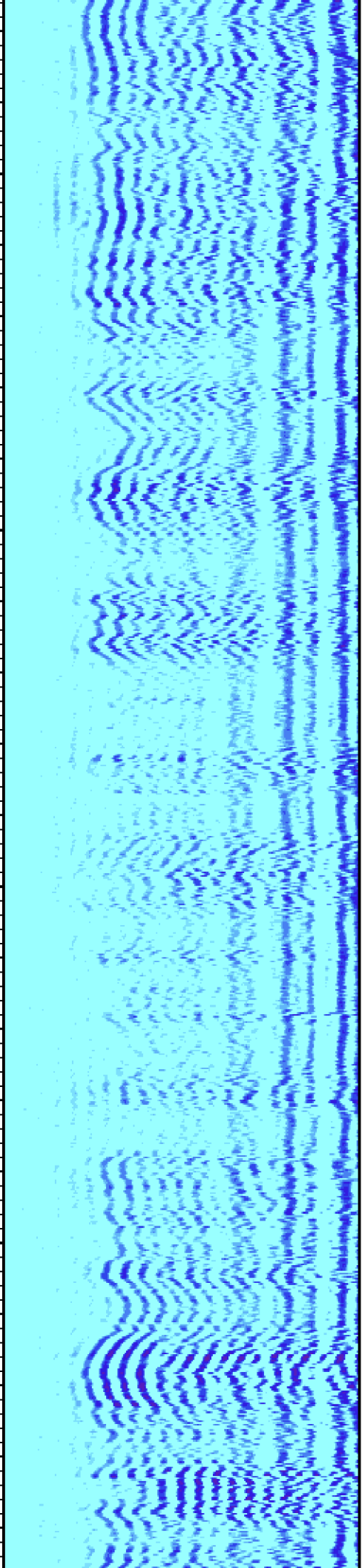
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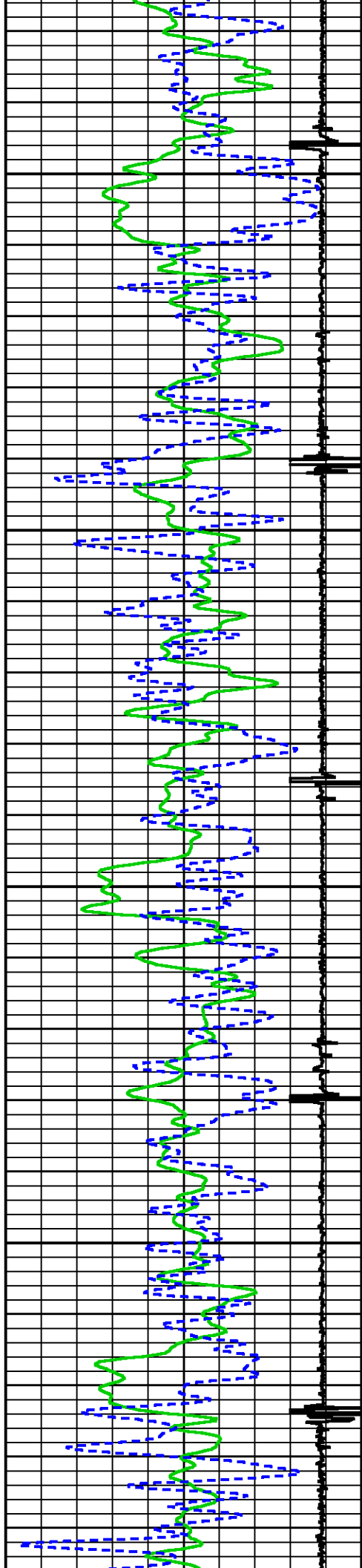
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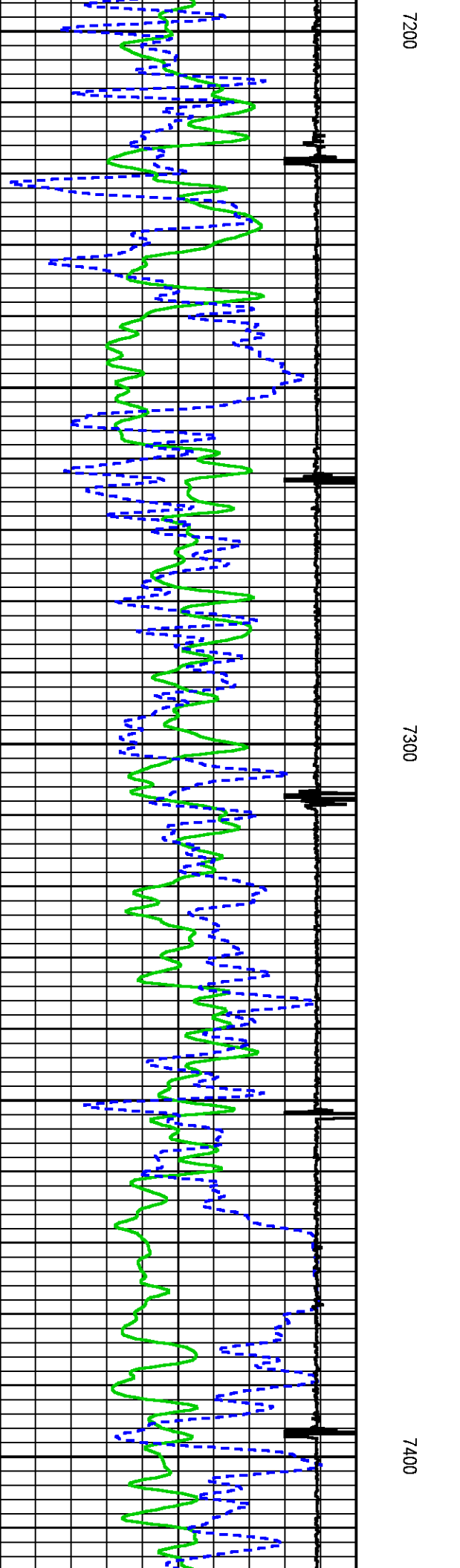
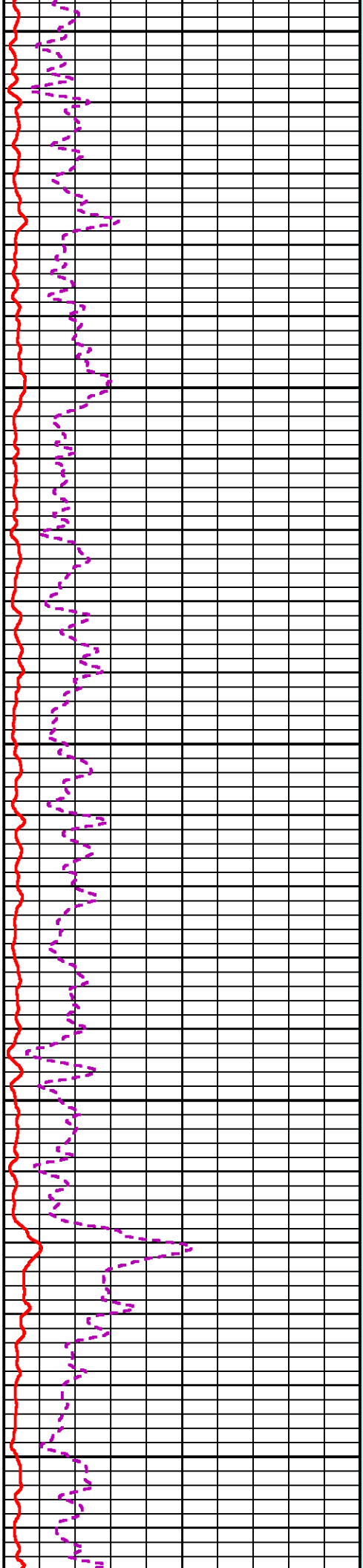
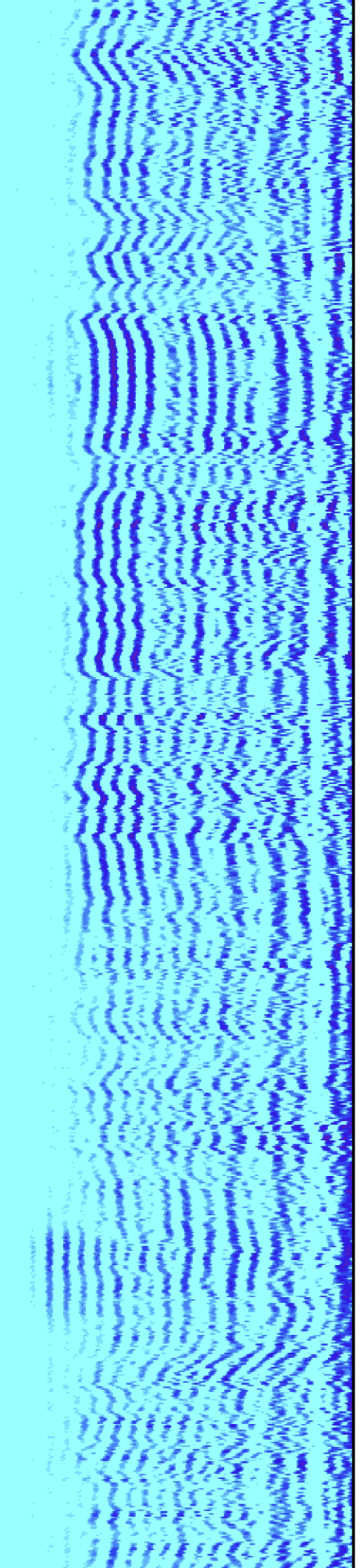


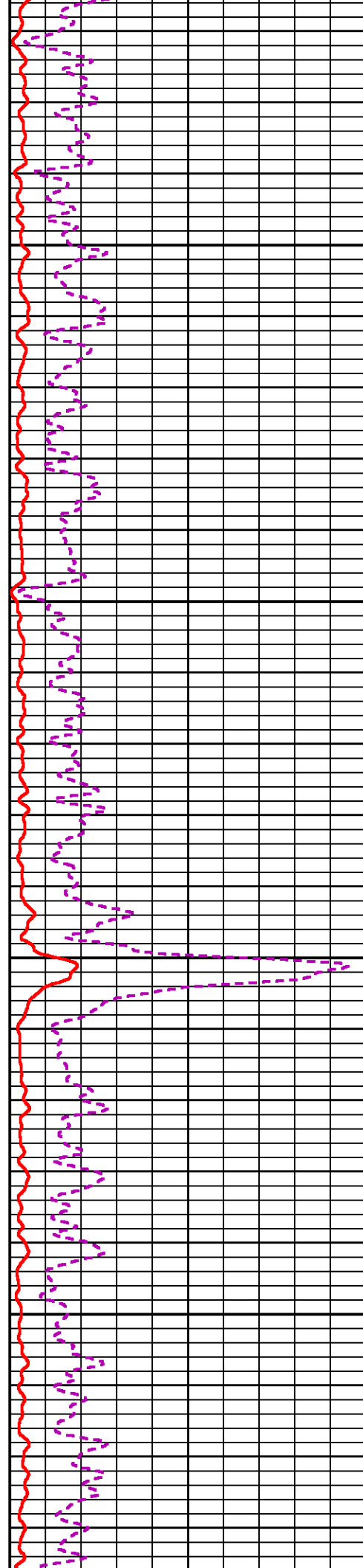
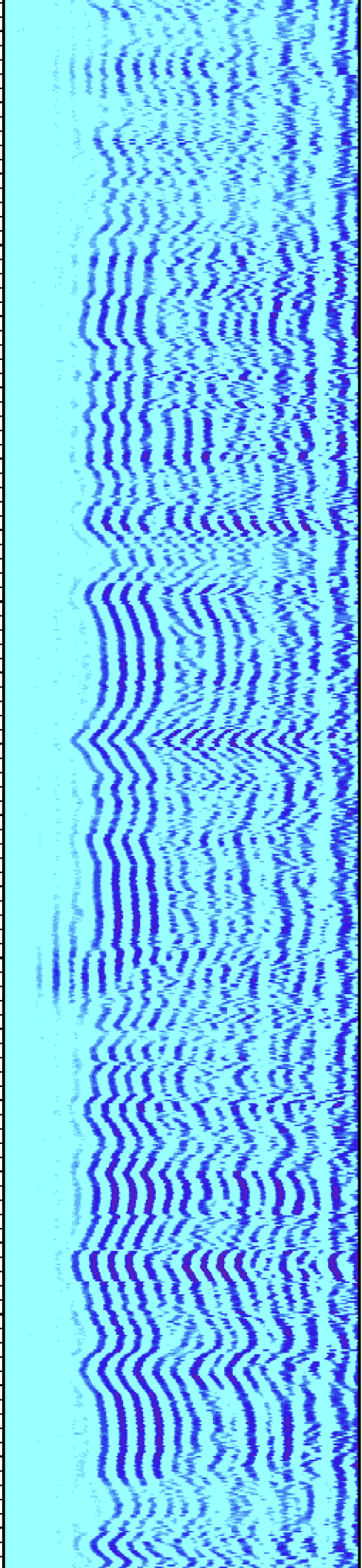


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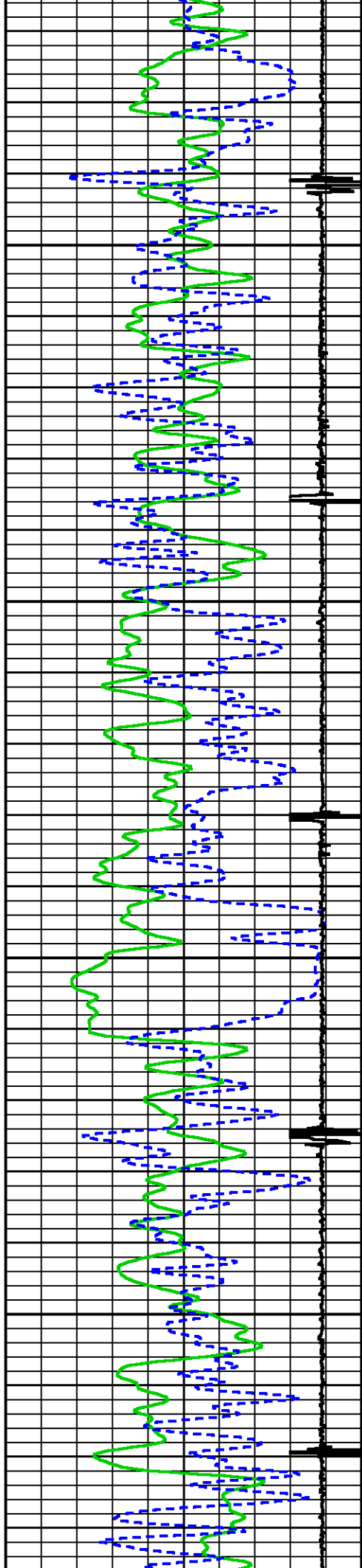


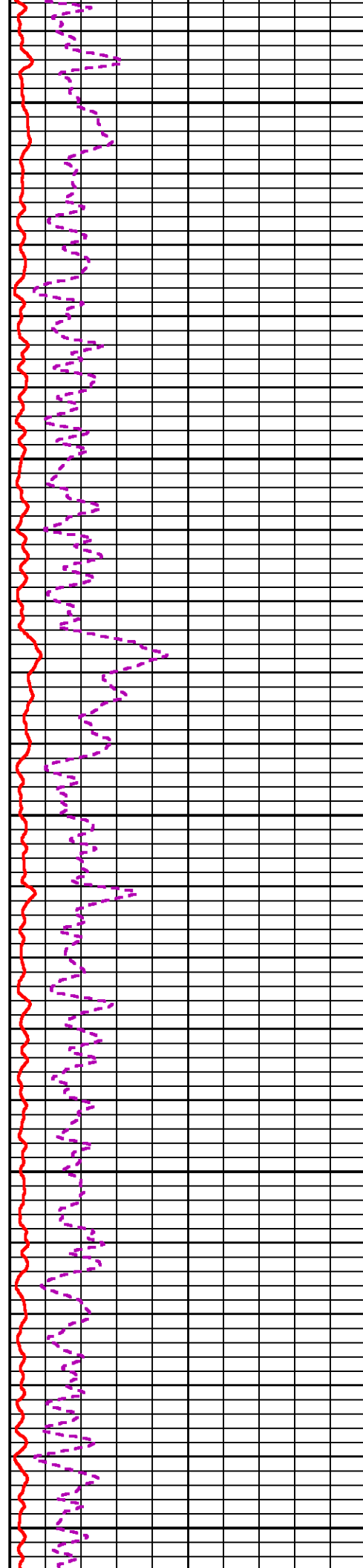
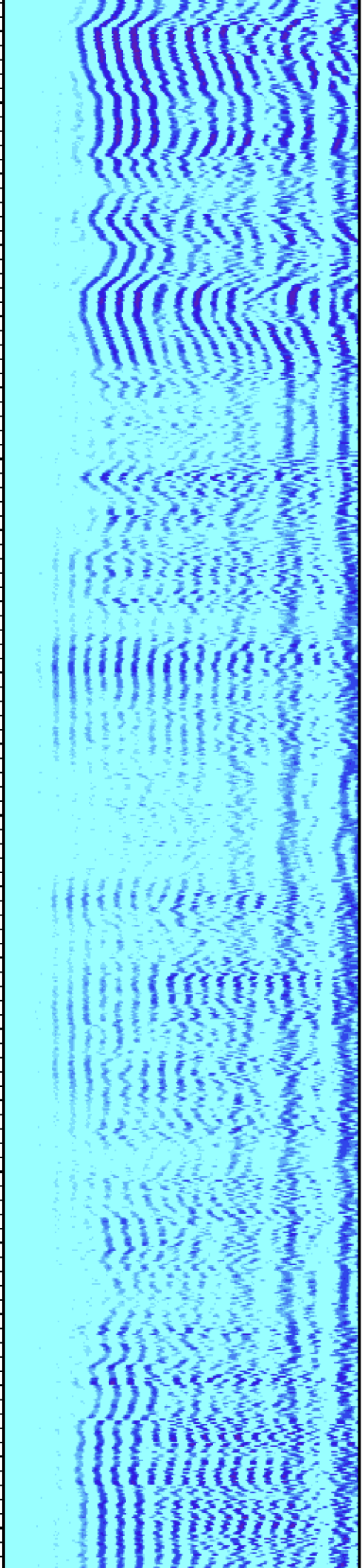




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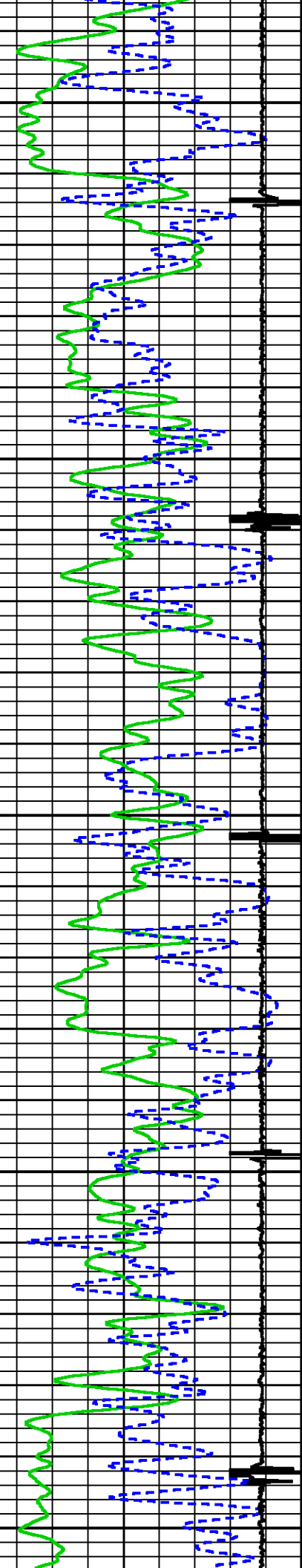
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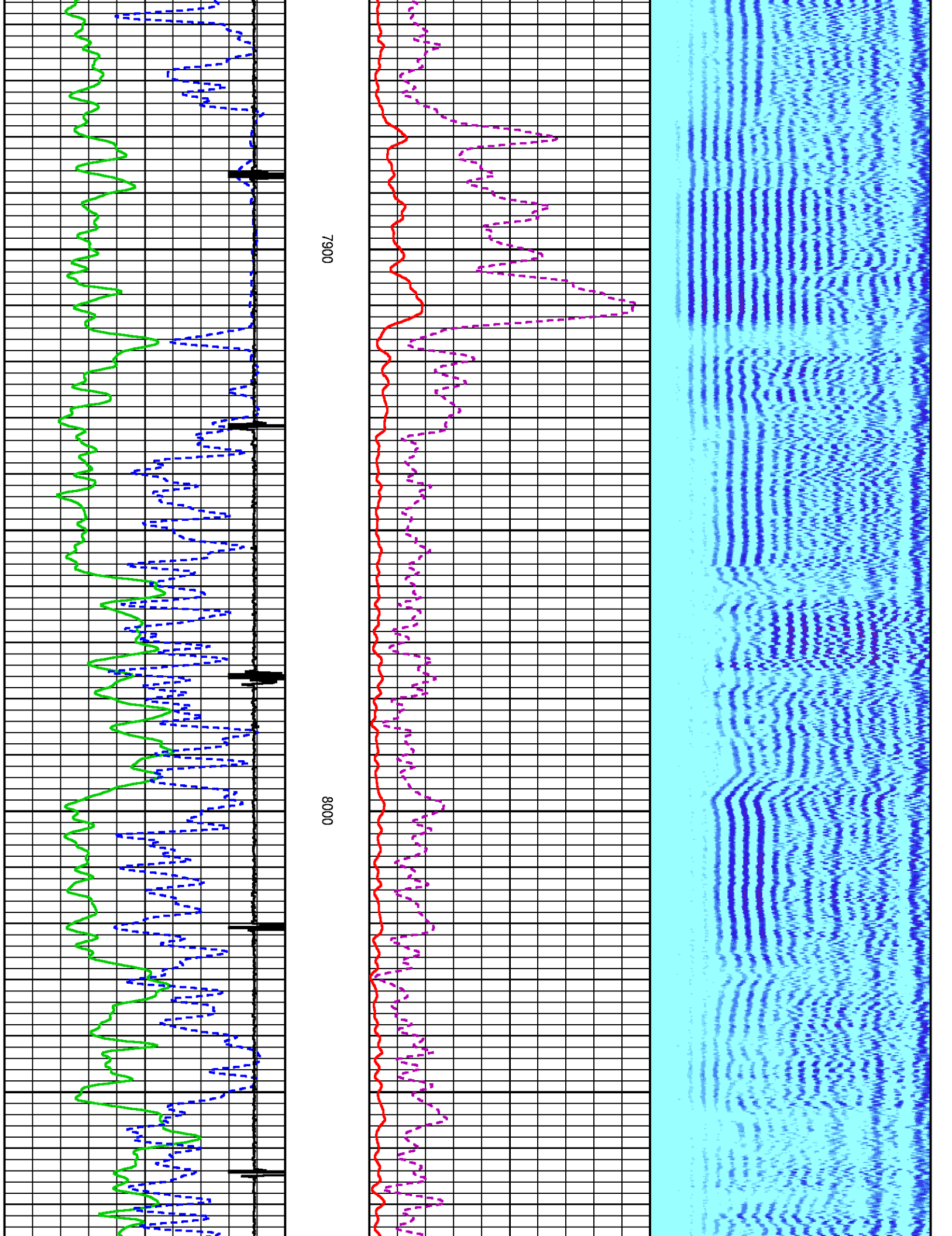


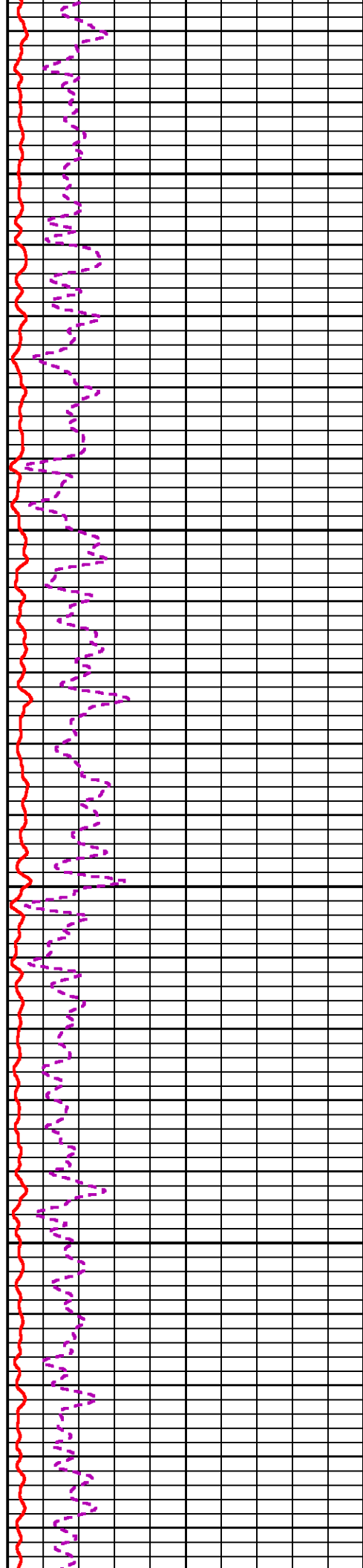
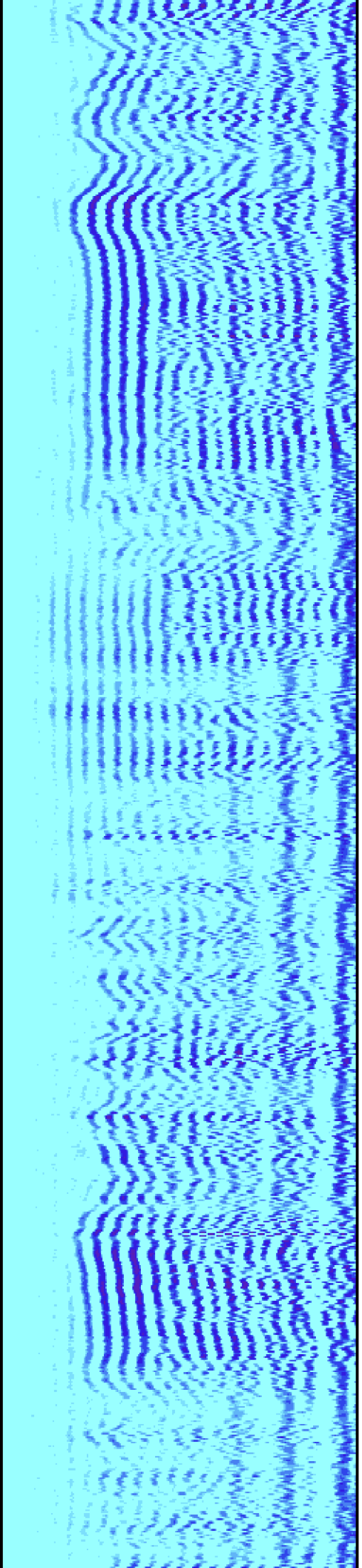


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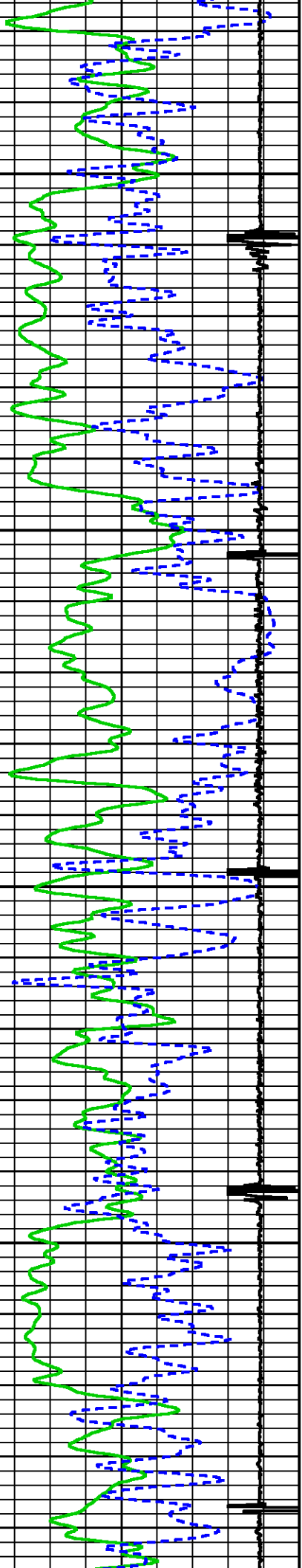


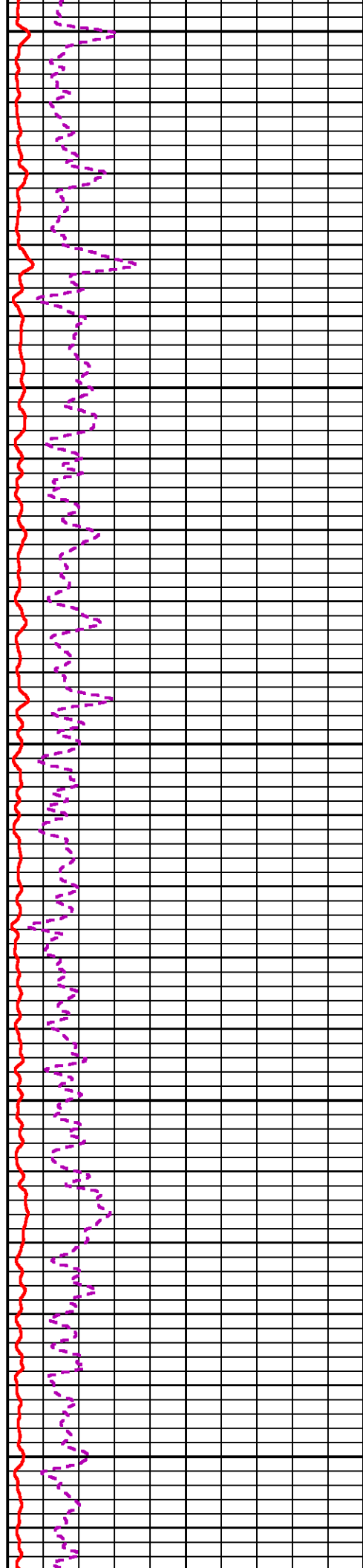
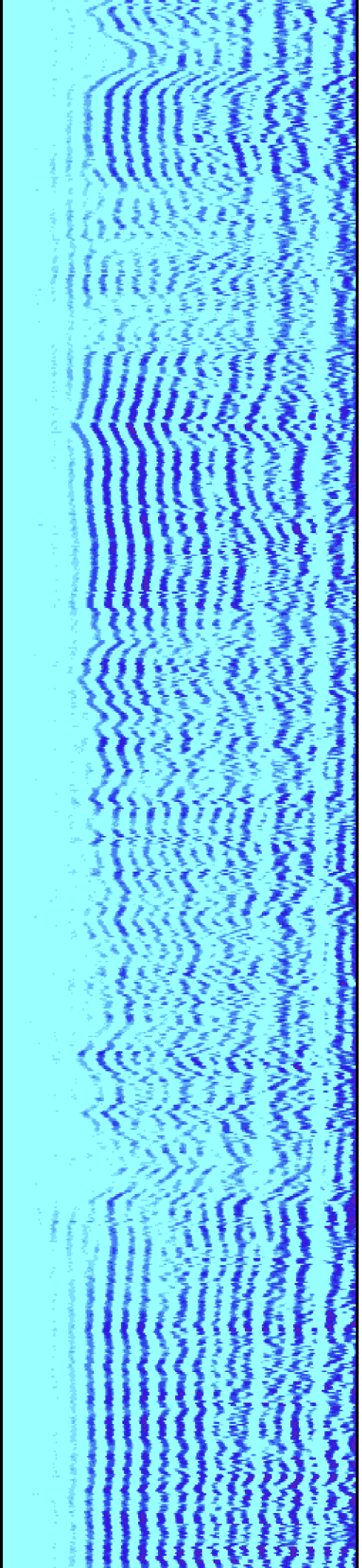




8100

8200

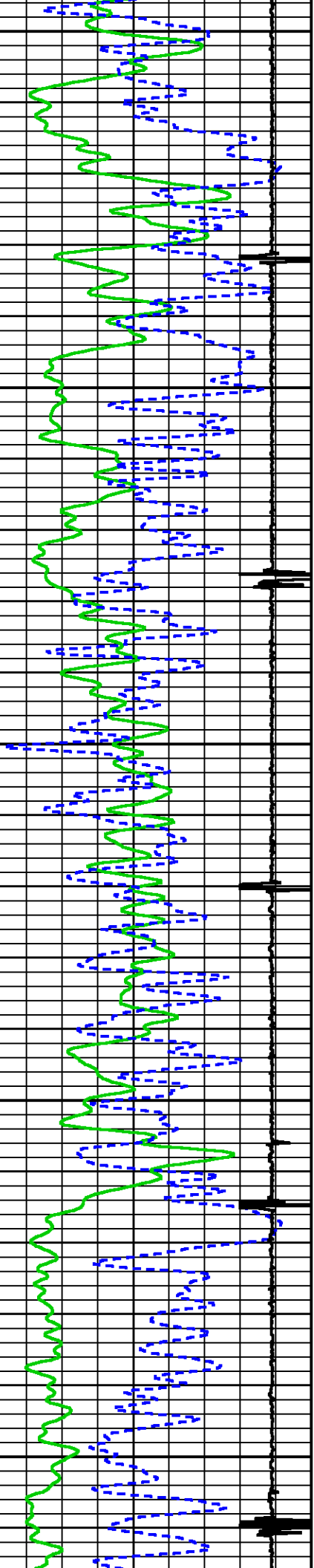


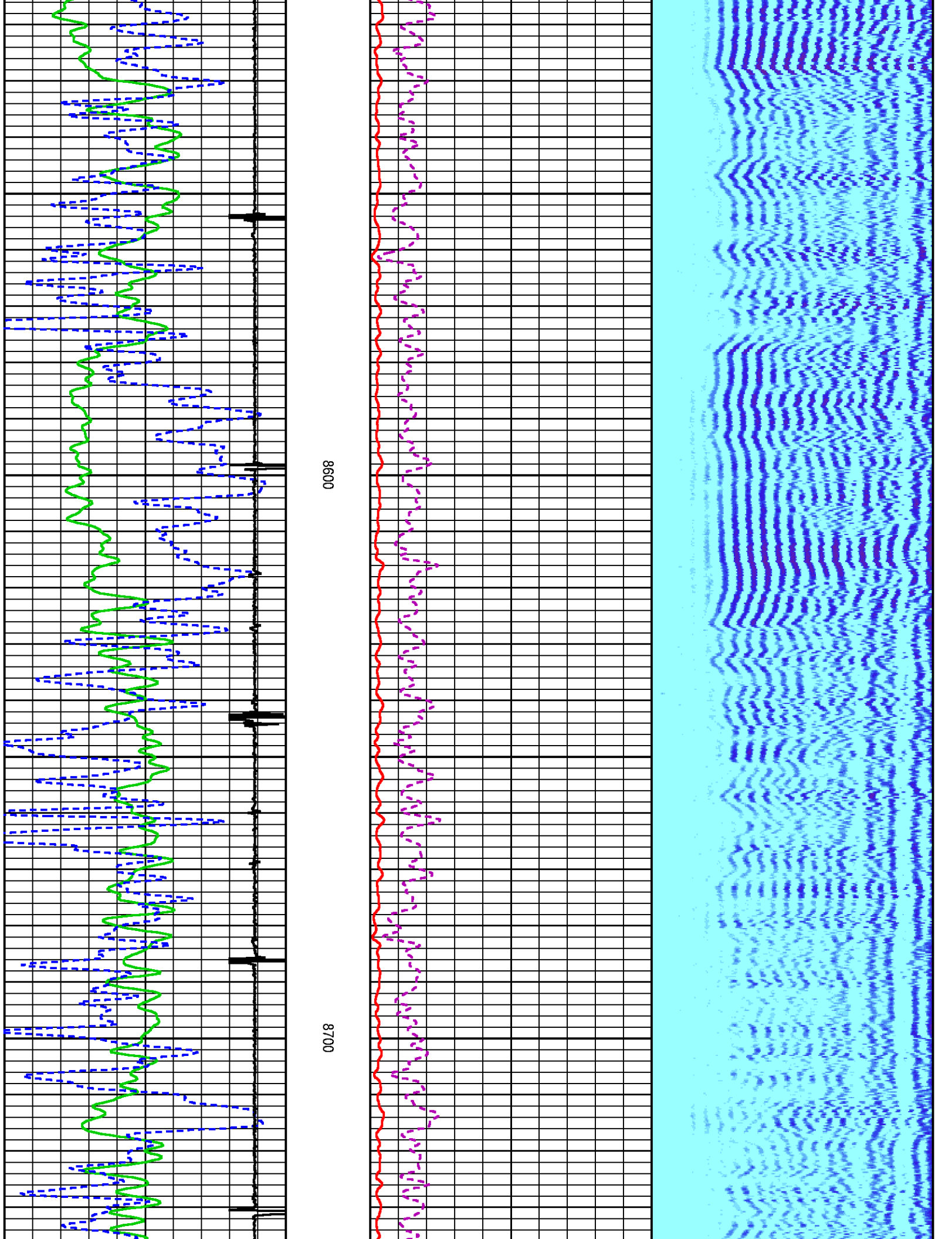


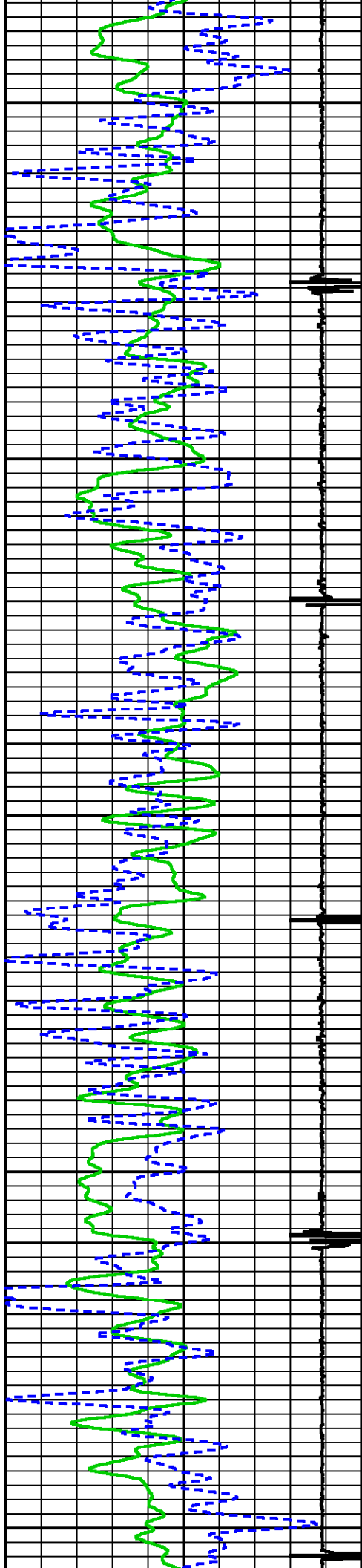
8300

8400

8500

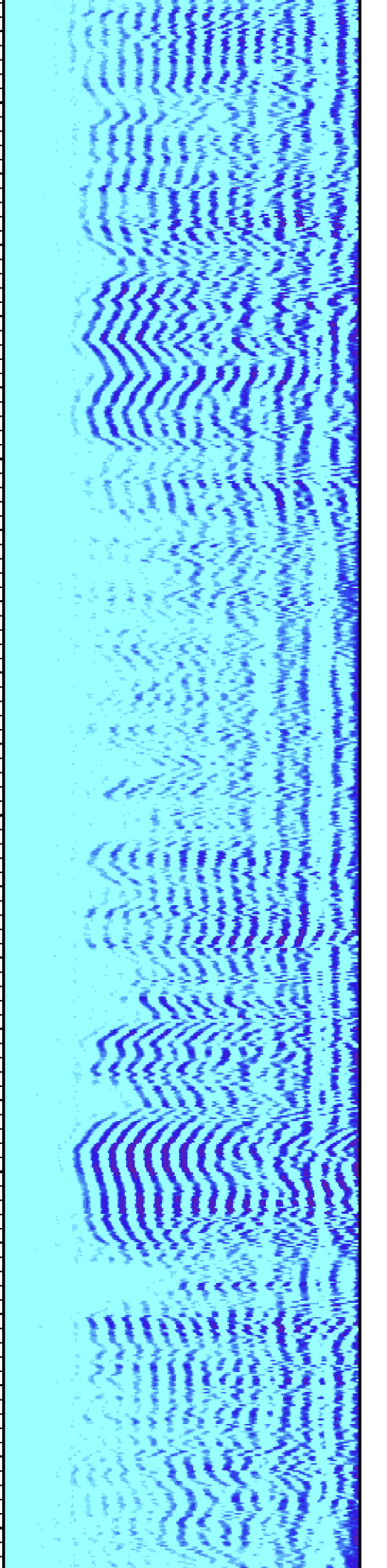
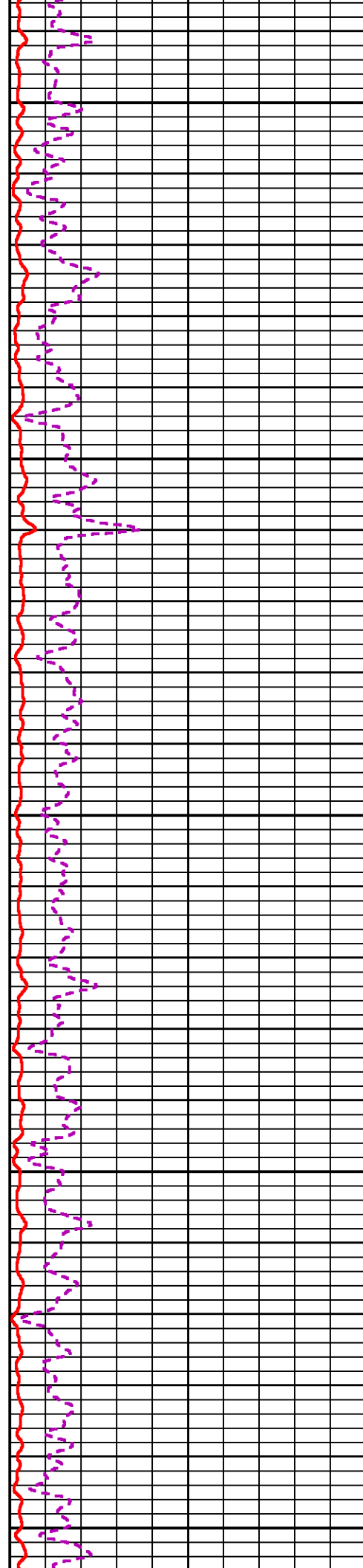


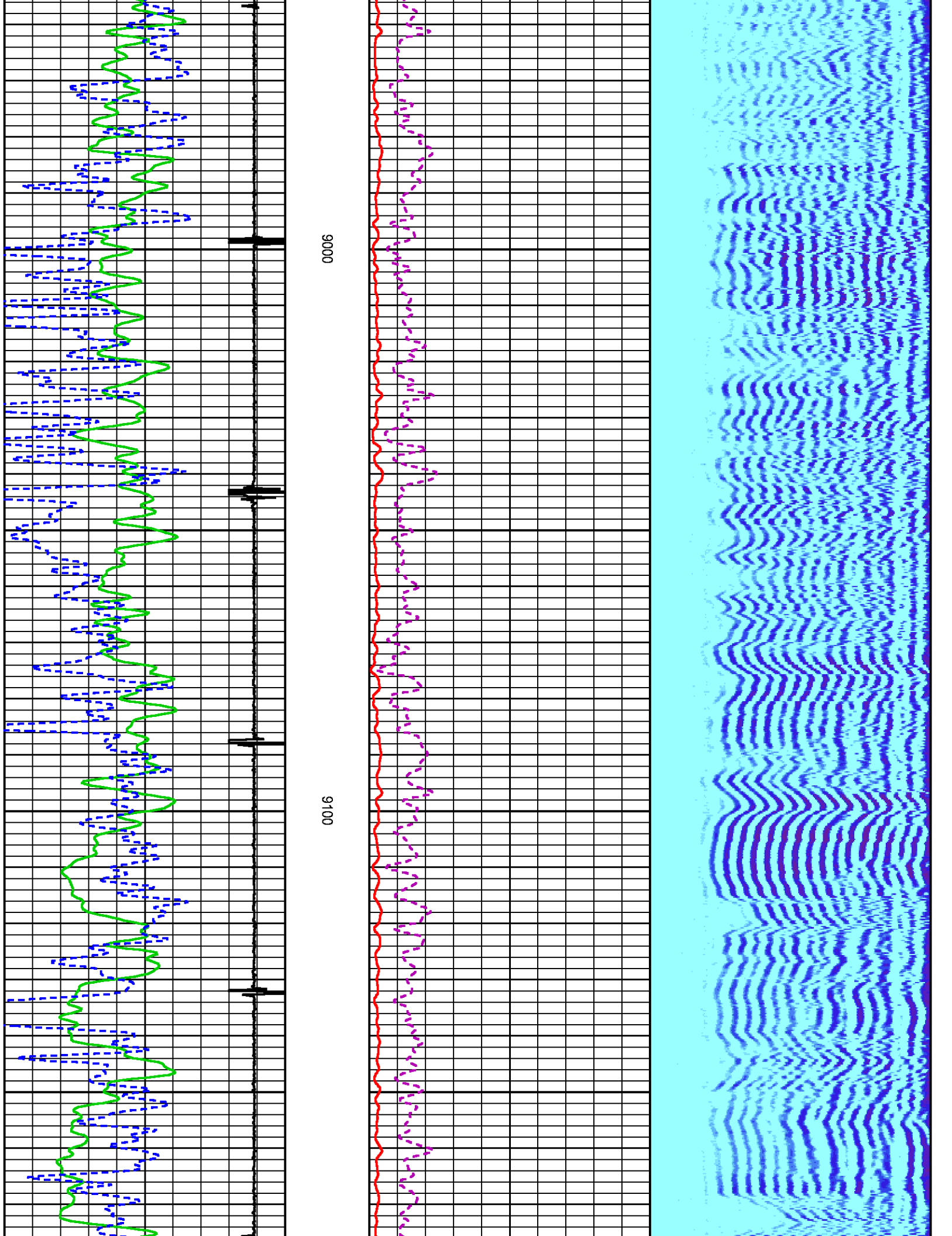


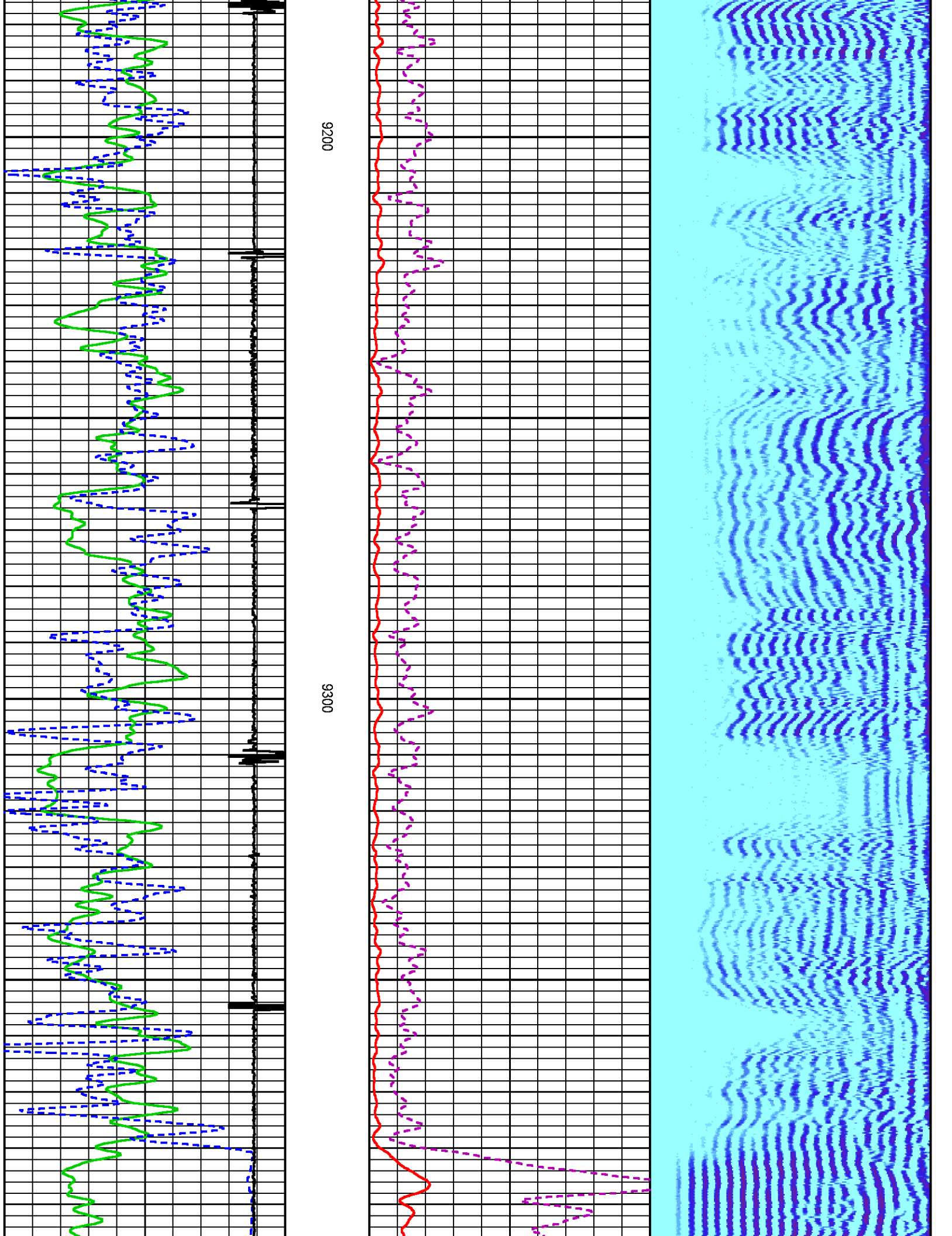


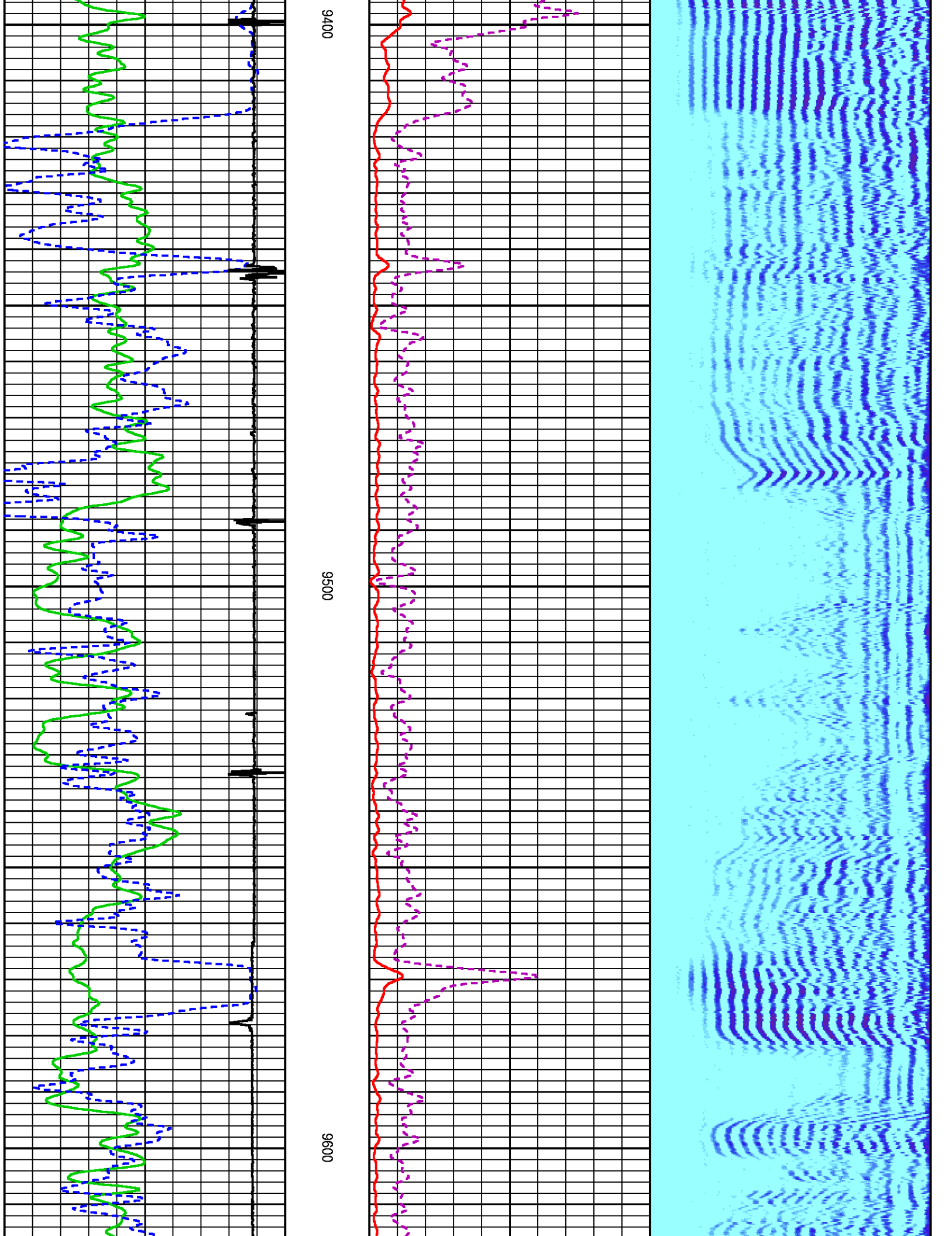
8800

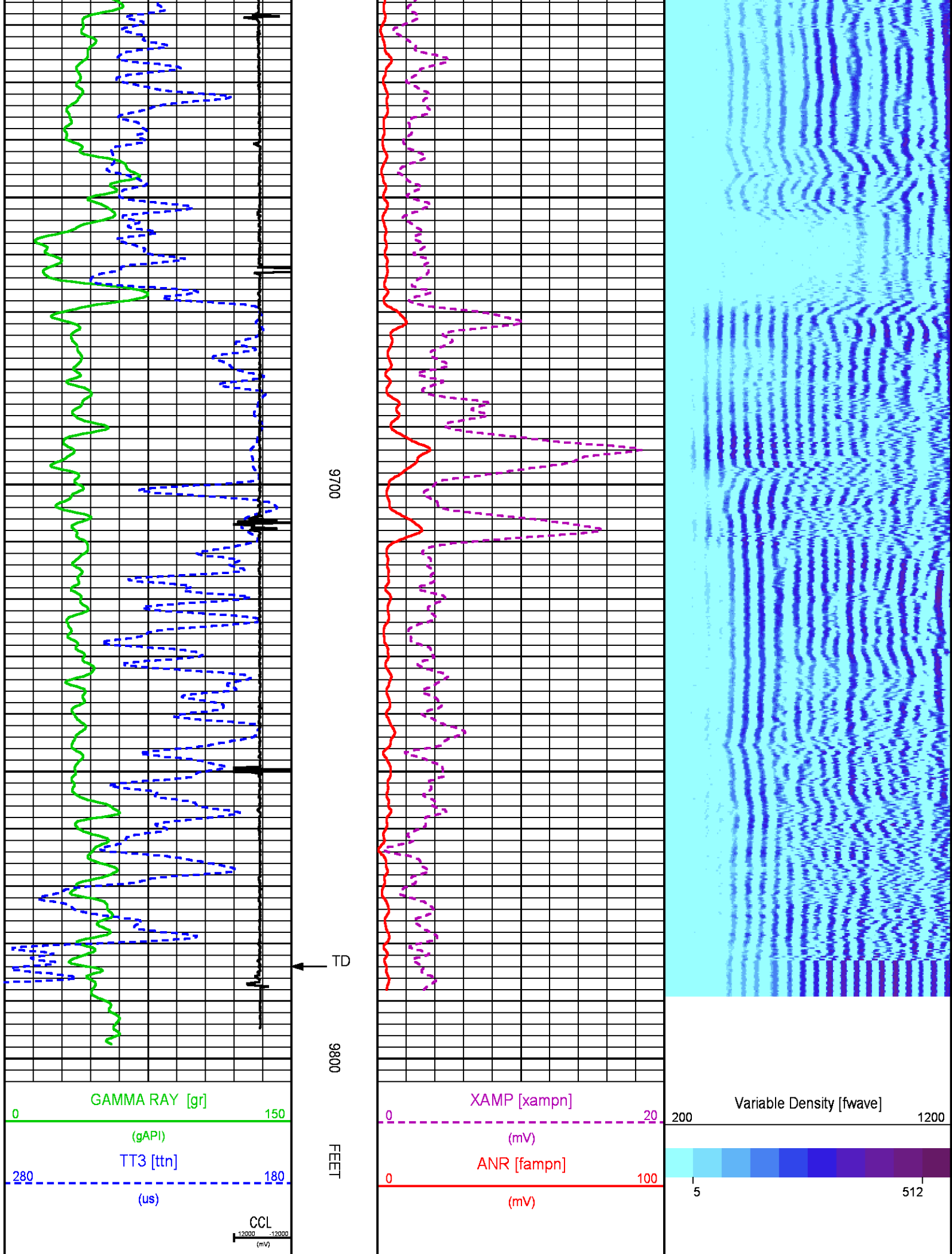
8900











REPEAT LOG 0 PSI

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

Plotted: Sun Dec 4 12:42:31 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_SR_544_12/n012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 9526.750 ft BOTTOM DEPTH: 9800.500 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	199	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	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*)	-75	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 4 09:59:06 2016	CASING COLLAR LOCATOR
F1:FAMPN	Dec 4 09:59:06 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 4 09:59:06 2016	FAR WAVE FORM
F1:GR	Dec 4 09:59:06 2016	GAMMA RAY
F1:TTN	Dec 4 09:59:06 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 4 09:59:06 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

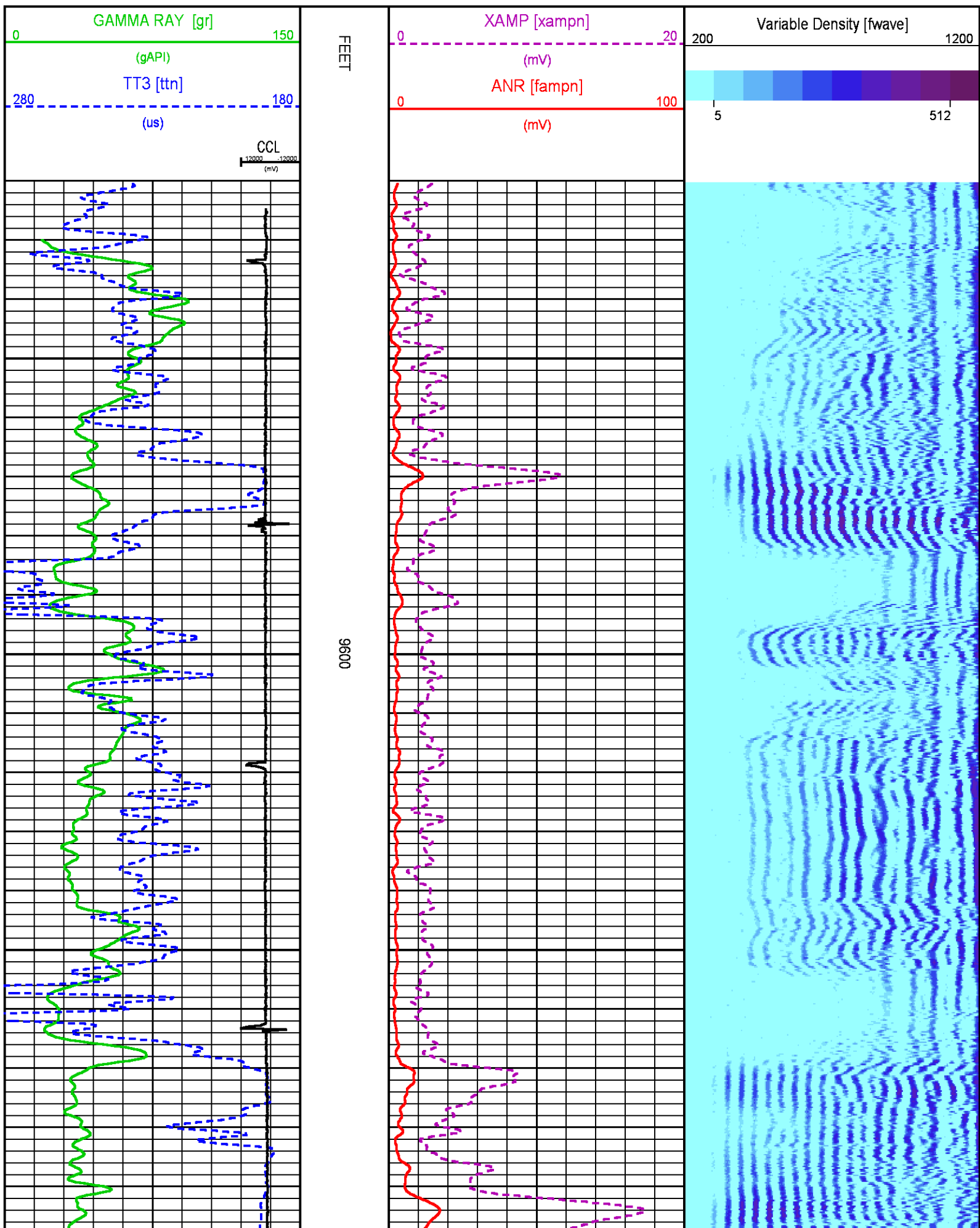
CURVE MEASURE POINT OFFSET

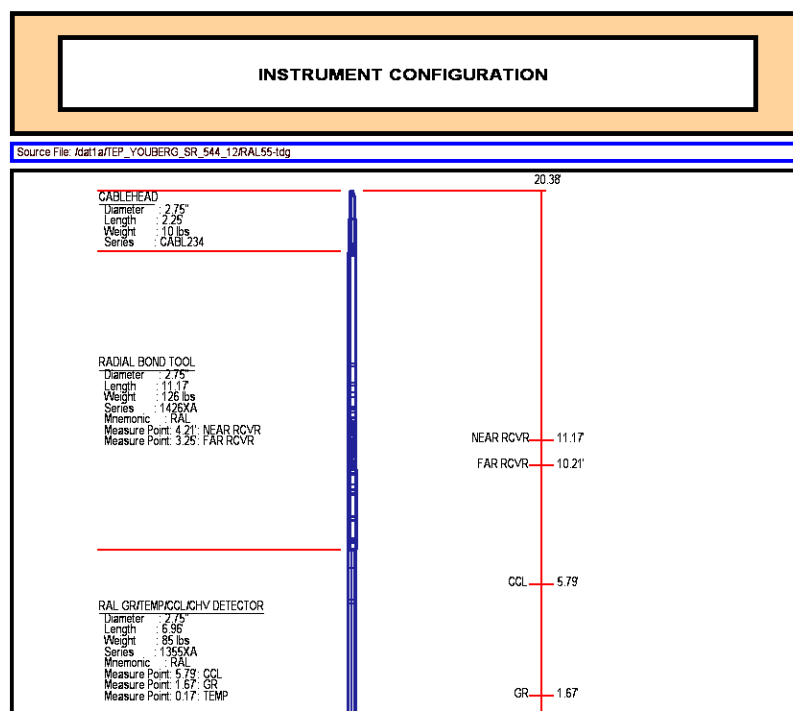
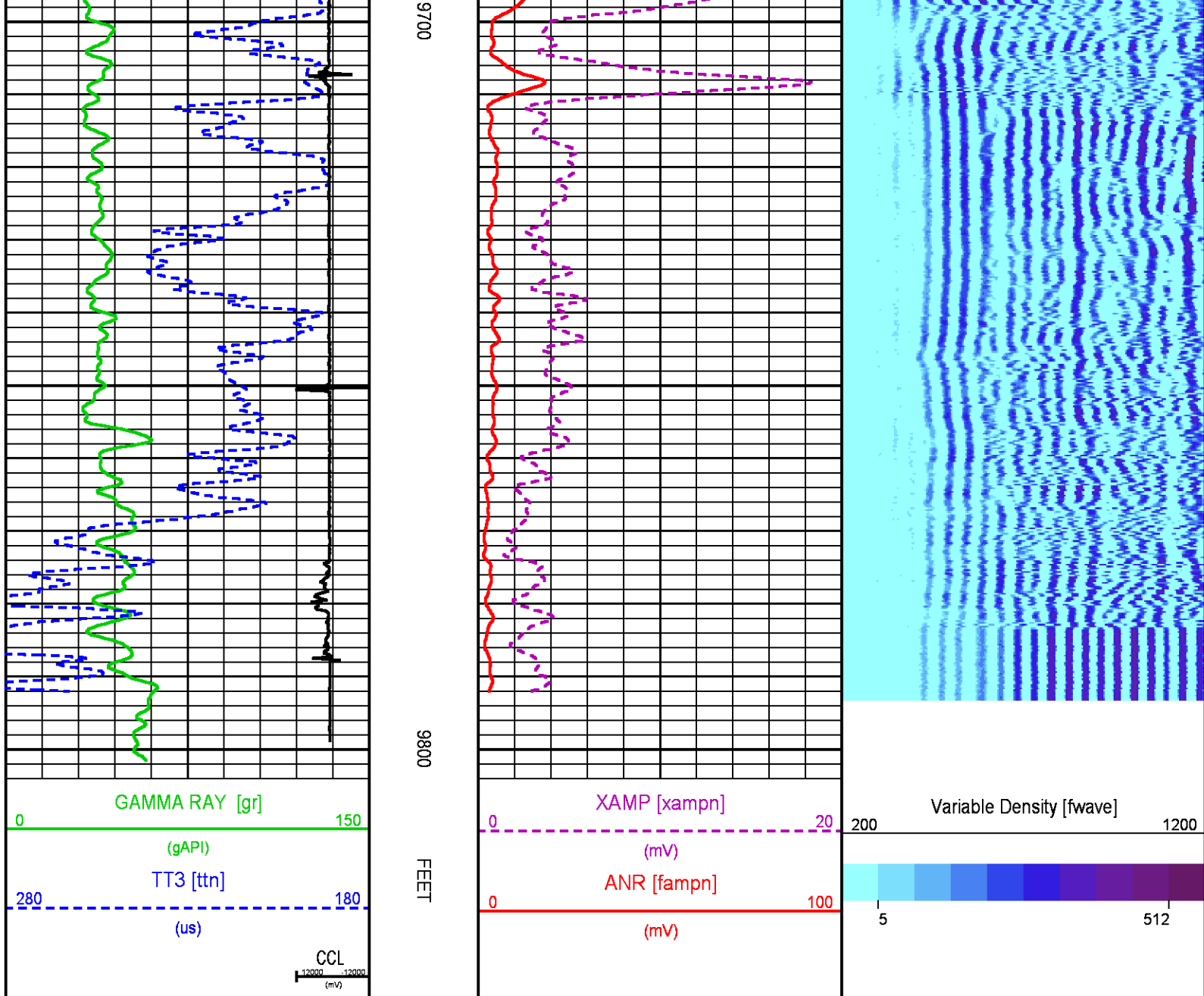
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation : cpu100:/dat1a/TEP_YOUBERG_SR_544_12/ral_cbl+01-REPEAT-REPRAL-5.fvpdf [5"/100' Scale]
Plot Interval : 9520.25 - 9803 Feet

Data File 1 : F1 : cpu100:/dat1a/TEP_YOUBERG_SR_544_12/REPRAL.xtf
Created On : Dec 4 09:59:06 2016
Company : TEP
Well : YOUNBERG SR 544 12

Well : YOUNBERG SR 344-12
Field : RULISON
File Interval : 9519.25 - 9804.5 Feet
OCT : n012g





TOTAL LENGTH: 20.38'
TOTAL WEIGHT: 221 lbs
MAX DIAMETER: 02.75"

TEMP: 8.67

CALIBRATION / VERIFICATION SUMMARY

Source File: Data\TEP_YOUBERG_SR_544_12h012g1p1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA10154957

DATE/TIME PERFORMED: Sun Dec 4 09:04:05 2016

UNIT #: 3880TA HL6670

	NEAR (mV)			RADIAL (mV)			FAR (mV)				
TARGETS	100.00			100.00			150.00				
	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	1.78	2.72	2.52	2.48	2.35	2.48	2.29	2.37	2.35	6.31	0.02
AMP FLUID (mV)	87	87	87	87	87	86	85	84	85	116	90
TT (us)	215	214	214	214	214	214	214	214	215	322	214
M FACTOR	1.18	1.19	1.18	1.18	1.18	1.20	1.21	1.22	1.21	1.37	1.11

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA10154957

DATE/TIME PERFORMED: Sun Dec 4 09:05:30 2016

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMLINE

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	2.31	2.86	2.85	3.10	3.00	2.96	2.61	2.34	2.75	5.47	0.03
AMP AIR	-0.66	-0.98	-0.73	-0.82	-0.92	-0.78	-0.60	-0.19	-0.60	-2.61	99.94
	SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR								
	1.11	0.00	1.00								

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA12670180

DATE/TIME PERFORMED: Tue Nov 15 11:53:22 2016

UNIT #: 3880TA HL6670

CALB JIG #: 4702NK DA_228

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	75.82	247.07	171.2	0.584	44.28	144.28	100

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA12670180

DATE/TIME PERFORMED: Tue Nov 15 11:54:47 2016

UNIT #: 3880TA HL6670

VERI JIG #: 4702NK DA_228

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	77.11	254.76	0.584	45.03	148.77	103.74
						103.00 110.00



COMPANY
WELL
FIELD
COUNTY

TEP ROCKY MOUNTAIN LLC
YOUBERG SR 544-12
RULISON
GARFIELD

STATE COLORADO

FILE NO:

API NO:

05045232550000

LOCATION:

SHL:1916' FSL & 148' FWL
BHL:166' FSL & 342' FWL

ELEVATIONS:

KB 7381 FT

DF

GL 7357 FT

SEC 12

TWP 7S

RGE 94W

DATE

04 DEC 2016

