



FILE NO: CH105973	COMPANY CAERUS OPERATING LLC
WELL PUCKETT 24C-1	
API NO: 05045226130000	FIELD GRAND VALLEY
	COUNTY GARFIELD
	STATE COLORADO
Ver. 4.06 SEC 1 T7S R97W H&P 330 MESA P2 797 PAD	LOCATION: SHL: 317' FEL 1074' FSL S2 T7S R97W BHL: 2051' FEL 488' FSL S1 T7S R97W SE/SE SEC 1 TWP 7S RGE 97W
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	OTHER SERVICES RPM ELEVATIONS: KB 8453.8 FT DF GL 8423.8 FT
GL. ELEVATION 8423.8 FT K.B. 30 FT ABOVE P.D. K.B.	

DATE		27-FEB-2016	
RUN	TRIP	1	1
SERVICE ORDER		CH105973	
DEPTH DRILLER		9218 FT	
DEPTH LOGGER		9173 FT	
BOTTOM LOGGED INTERVAL		9170 FT	
TOP LOGGED INTERVAL		2500 FT	
TIME STARTED		7:15	
TIME FINISHED		9:30	
OPERATOR RIG TIME		2:15	
TYPE OF FLUID IN HOLE		WATER	
FLUID DENSITY		NA	
FLUID SALINITY		NA	
FLUID LEVEL		NA	
LOGGED CEMENT TOP		SEE LOG	
WELLHEAD PRESSURE		0 PSI	
MAXIMUM HOLE DEVIATION		NA	
NOMINAL LOGGING SPEED		100 F/MIN	
MAX. RECORDED TEMP.		228 DEGF	
REFERENCE LOG		NONE	
REFERENCE LOG DATE		NA	
EQUIP. NO.	LOCATION	HL-6685	GRAND JCT.
RECORDED BY		W. QUIGLEY	
WITNESSED BY		M. LEIBOVITZ	

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
4.5 IN	11.6 LB/F	P-110	30 FT	9218 FT

#### REMARKS

RUN 1 TRIP 1: THIS IS THE FIRST LOG ON THIS WELL.

BHT = 228 DEGF

SJ = 6740'-6748'

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES

#### EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10404539	CENTRALIZED

11GR / CCL1355XA12670181CENTRALIZED

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: Sat Feb 27 12:23:22 2016

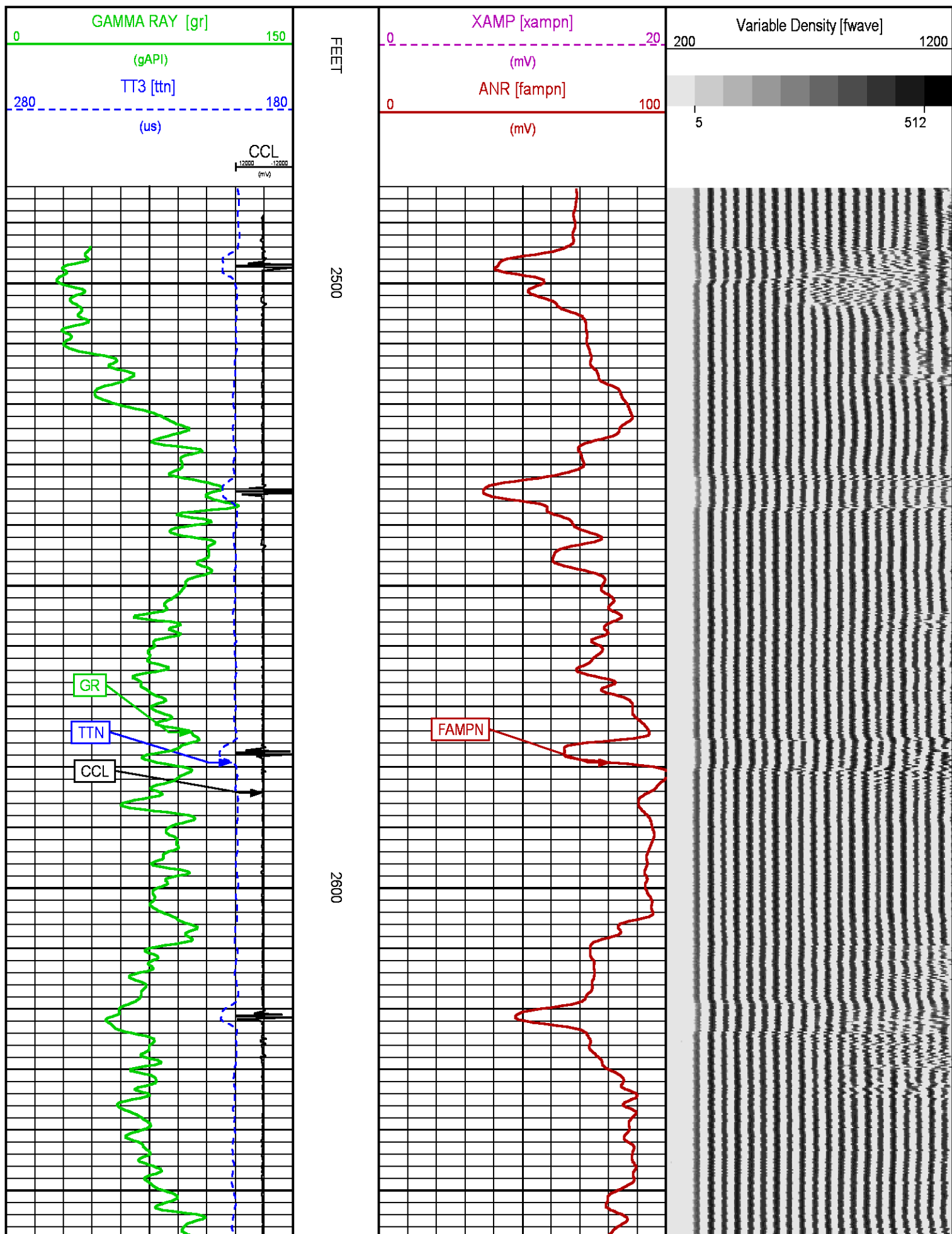
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /dat1a/CH105973/n012g02.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 2494.750 ft BOTTOM DEPTH: 9186.490 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (ft)
GR		FILTER ()	medium (1)		TOP BOTTOM
AMPLITUDE		FILTER ()	medium (1)		" "
TRAVEL TIME		FILTER ()	medium (1)		" "
RAL CCL PROCESSING					
MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (ft)
CCL FLOOR		CCL FLOOR	0		TOP BOTTOM
ANALOG RAL PROCESSING					
MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (ft)
AMPLITUDE WINDOW (NEAR)		AMP WINDOW START (fgpn*)	187	us	TOP BOTTOM
		AMP WINDOW LENGTH	25	us	" "
TRAVEL TIME WINDOW (NEAR)		TT WINDOW START (ttn*)	172	us	" "
		TT WINDOW LENGTH	500	us	" "
		FIRST BRK THRESHOLD (ttn*)	4	mV	" "
RAL CASING PARAMETERS		PPT NEAR	200.391	us	" "
RAL TOOL DELAY		TOOL DELAY (strn*)	-71	us	" "
BASELINE NOISE (NEAR)		NOISE WINDOW START	125	us	" "
		NOISE WINDOW LENGTH	25	us	" "

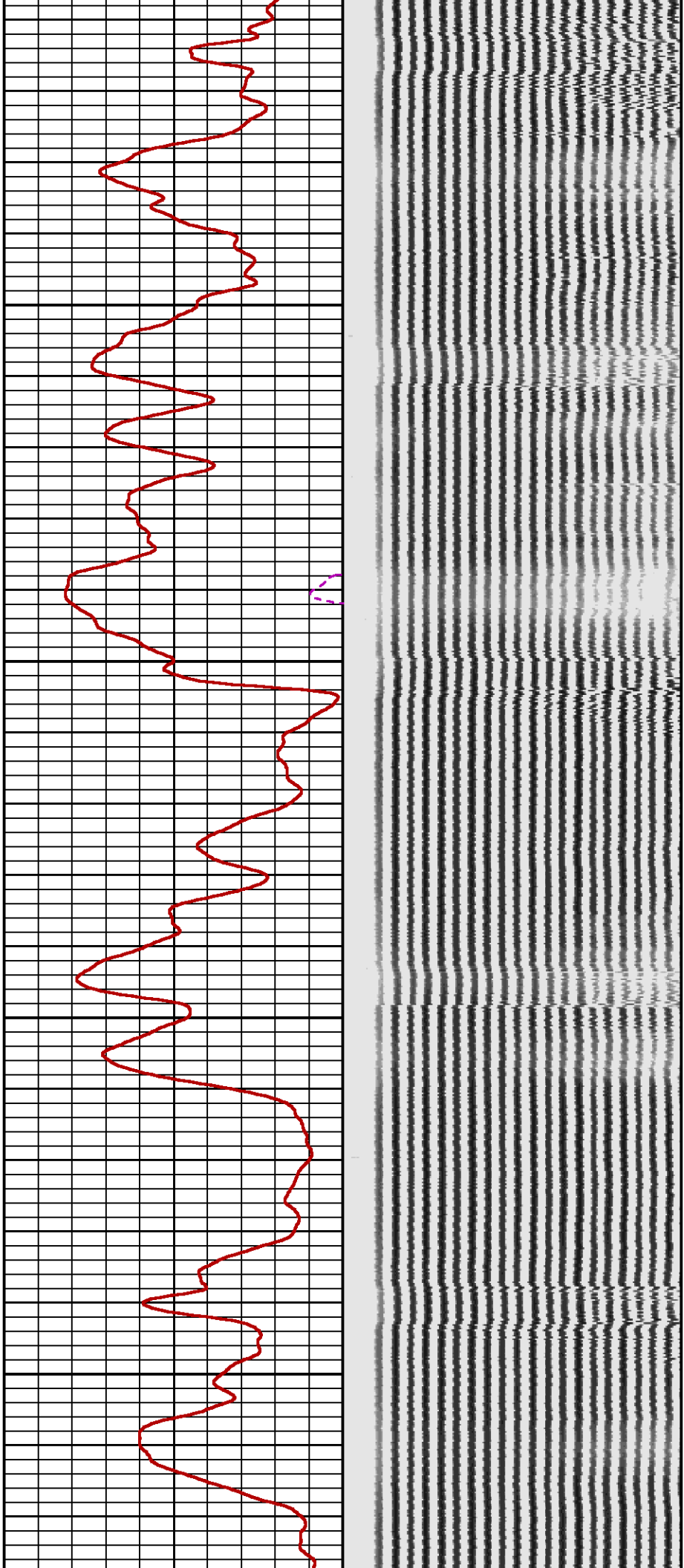
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:FAMPN	Feb 27 08:03:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 27 08:03:27 2016	FAR WAVE FORM
F1:GR	Feb 27 08:03:27 2016	GAMMA RAY
F1:TTN	Feb 27 08:03:27 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 27 08:03:27 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET								
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/CH105973/CAERUS\_CBL.fvpdf [5"/100' Scale]  
Plot Interval : 2484.25 - 9184.75 Feet  
  
Data File 1 : F1 : cas6685:/dat1a/CH105973/n012g02\_MAIN.xtf  
Created On : Feb 27 08:03:27 2016

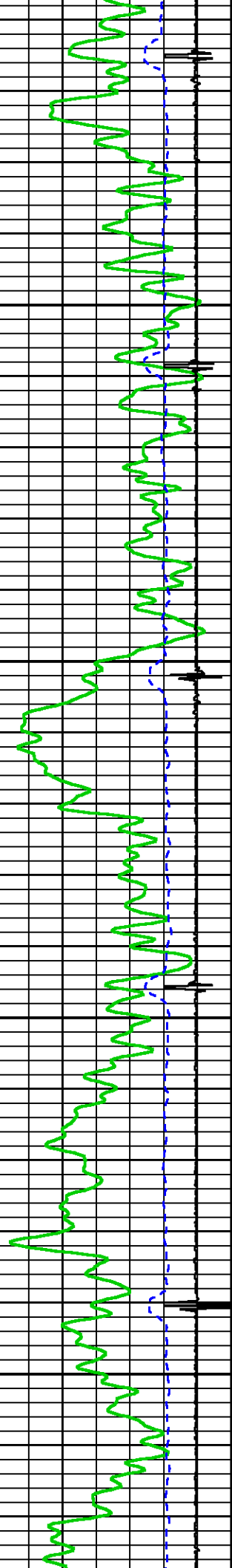
Company : CAERUS OIL & GAS  
Well : PUCKETT 24C-1  
Field : GRAND VÁLLEY  
File Interval : 2483.25 - 9186.25 Feet  
OCT : n012g

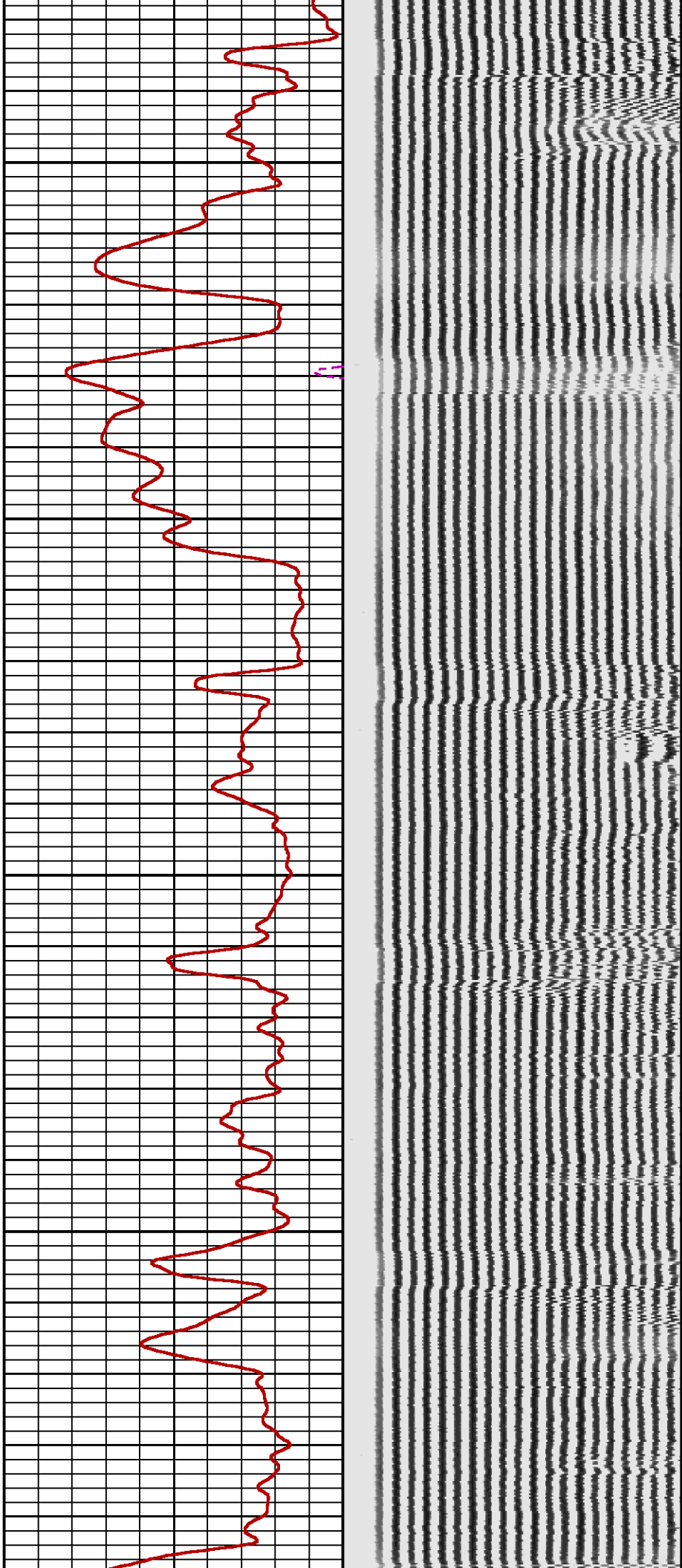




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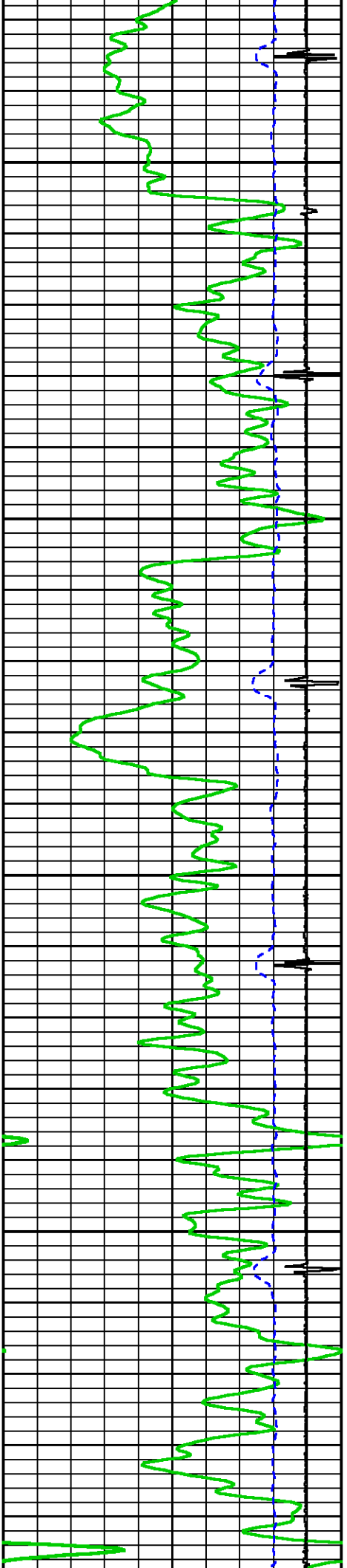
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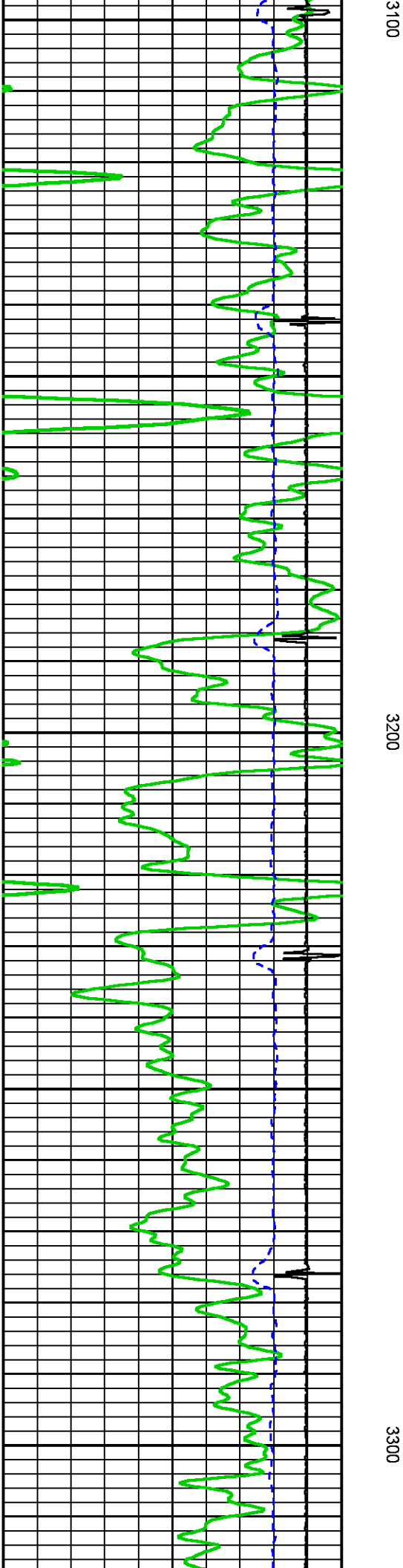
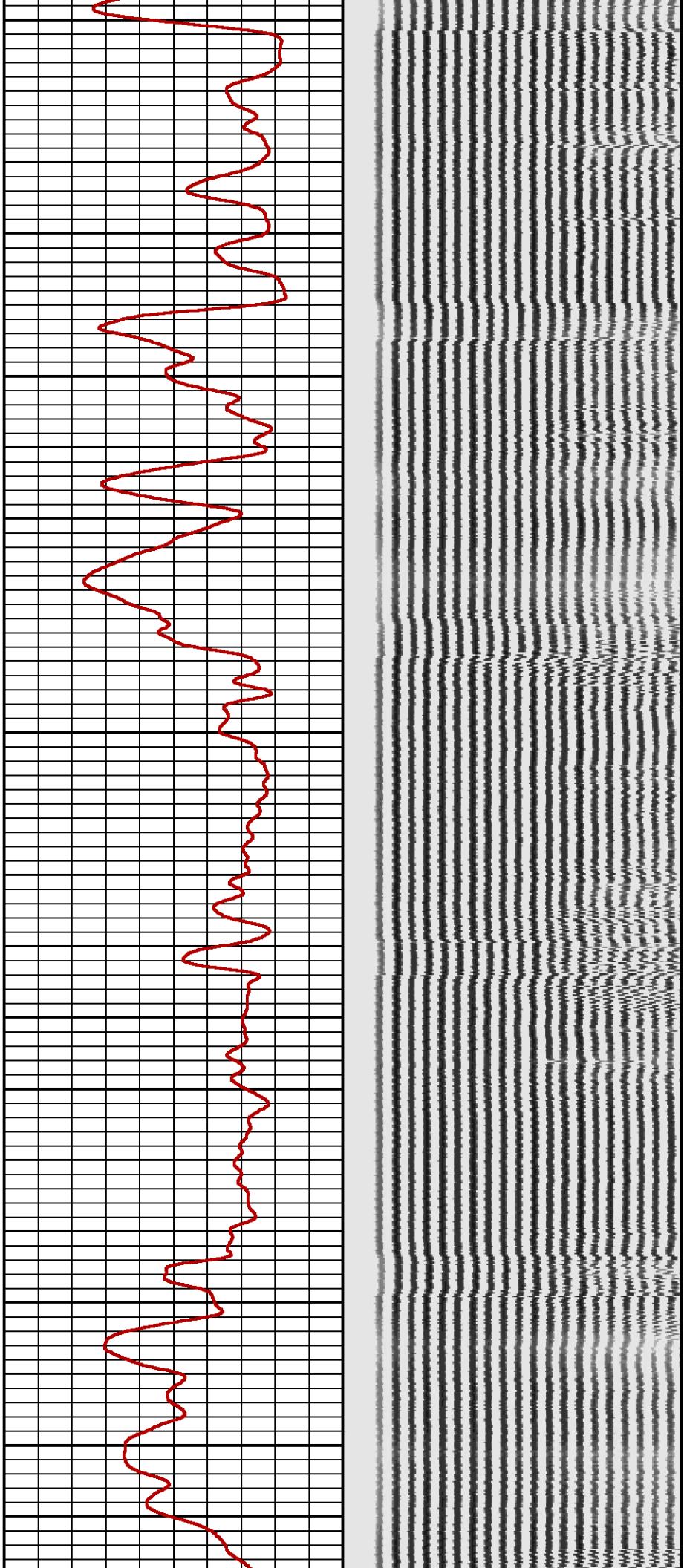


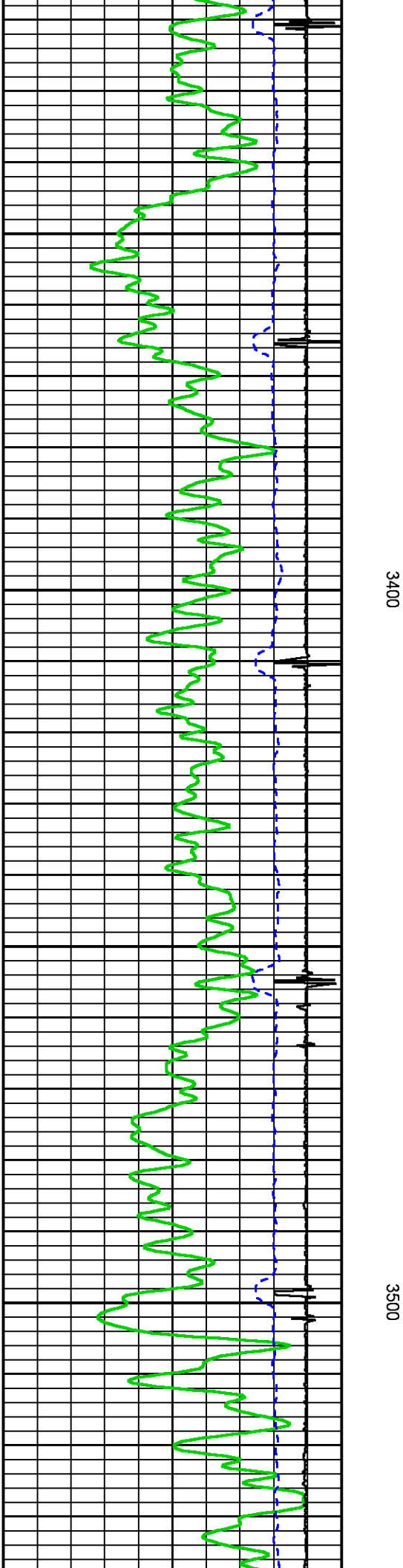
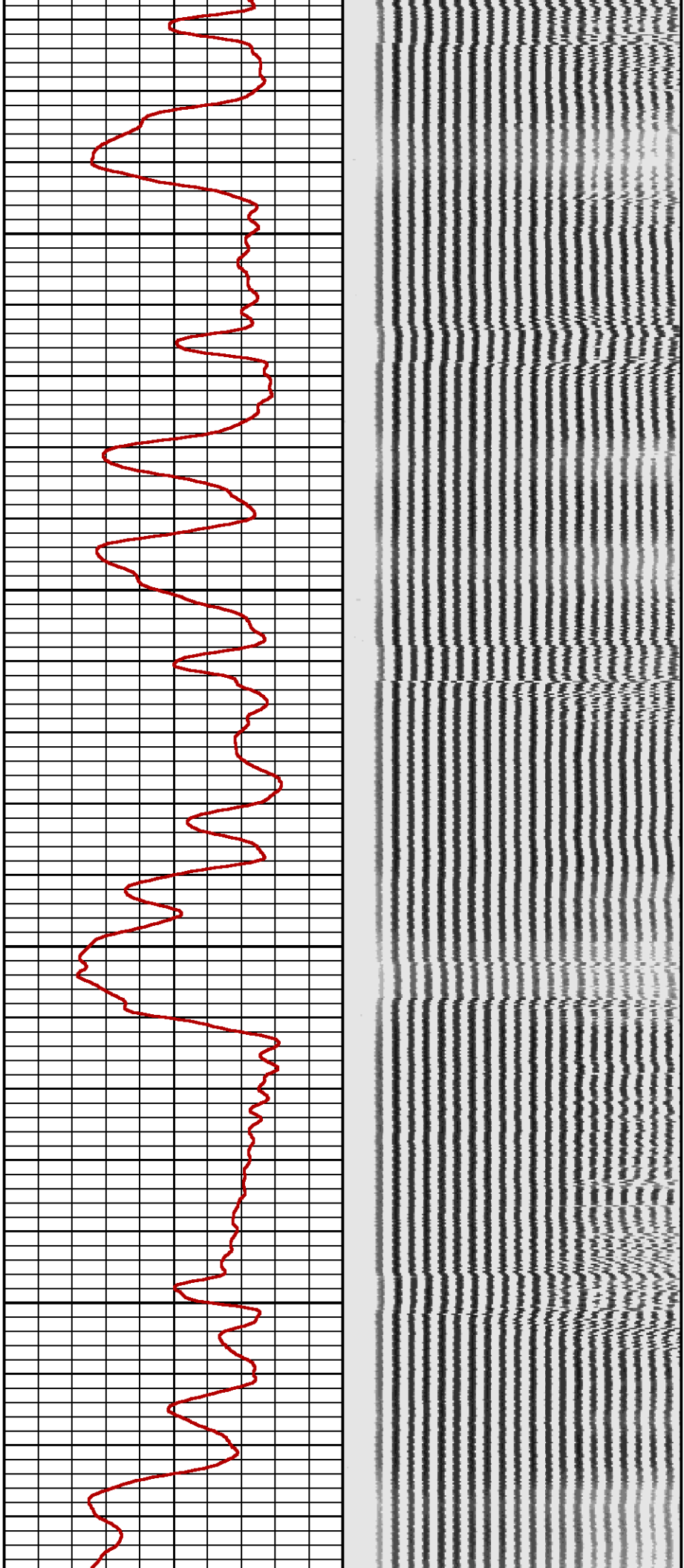
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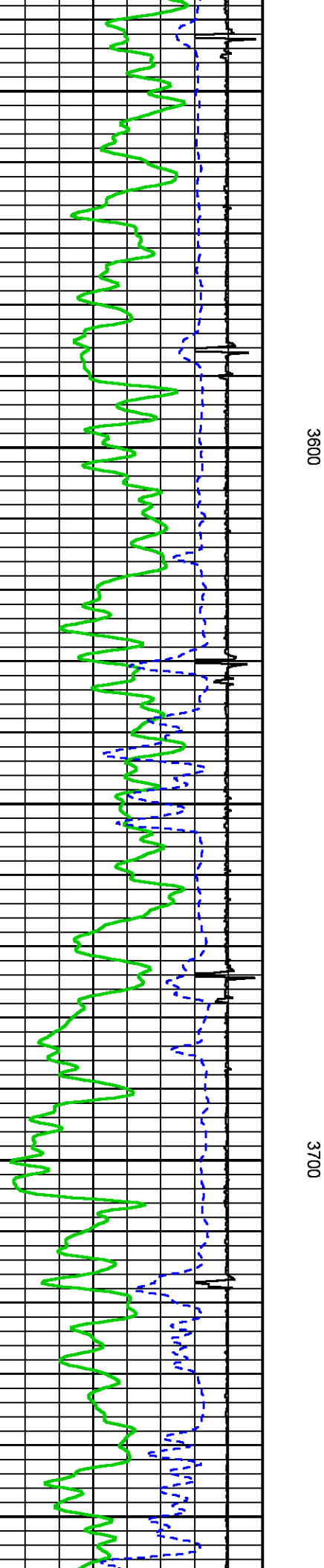
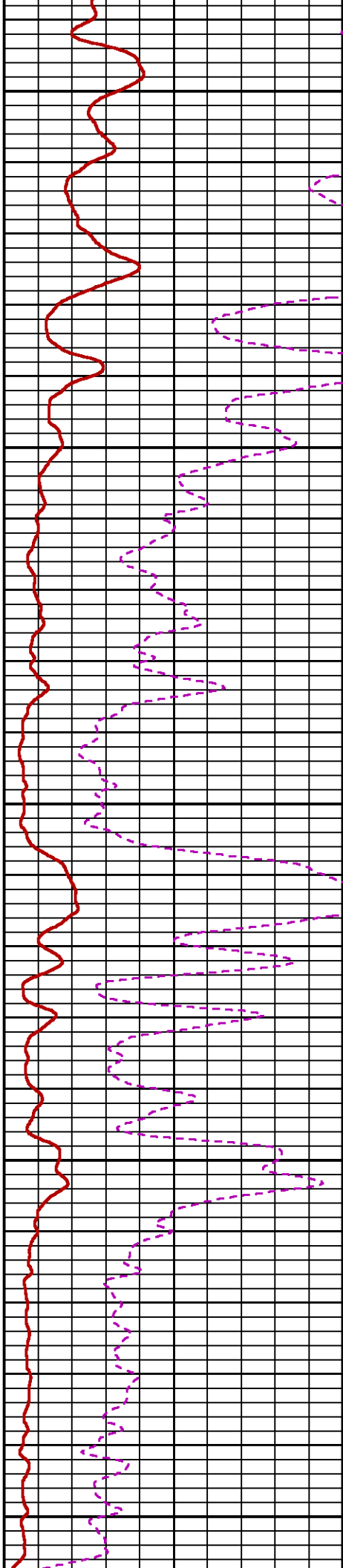
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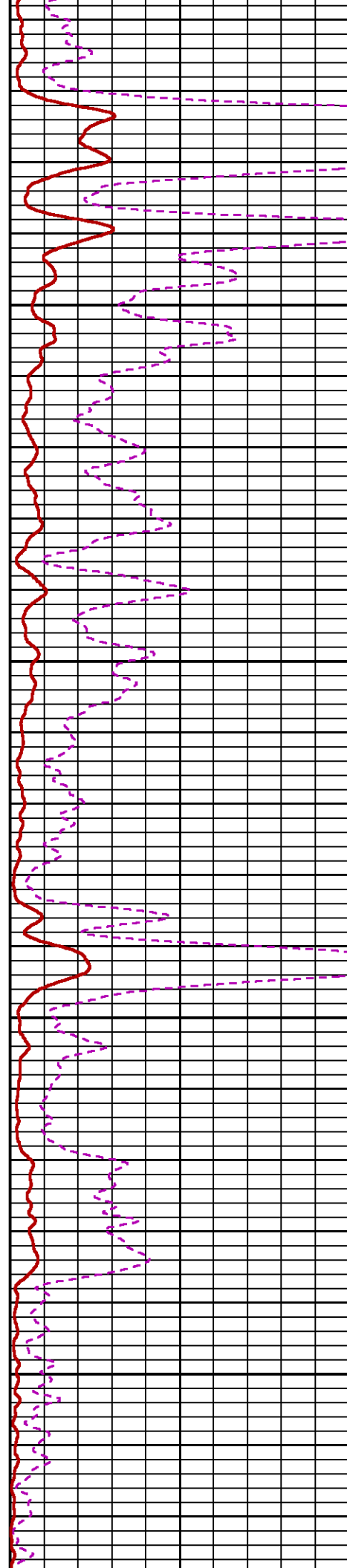
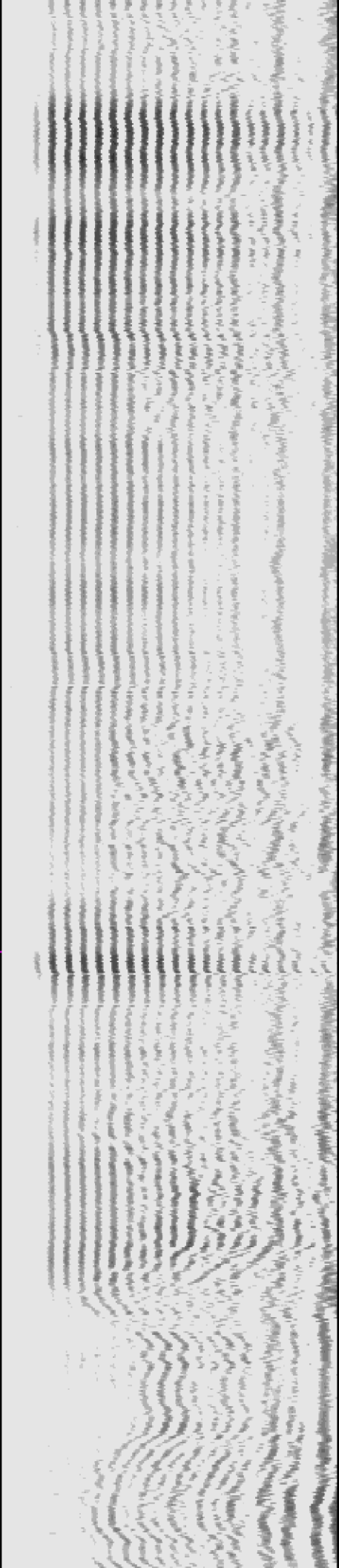






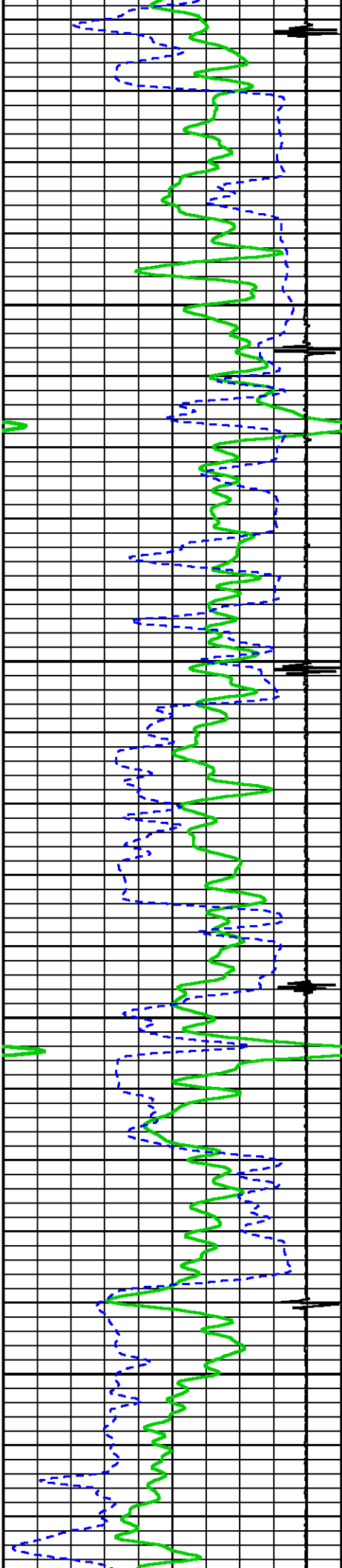






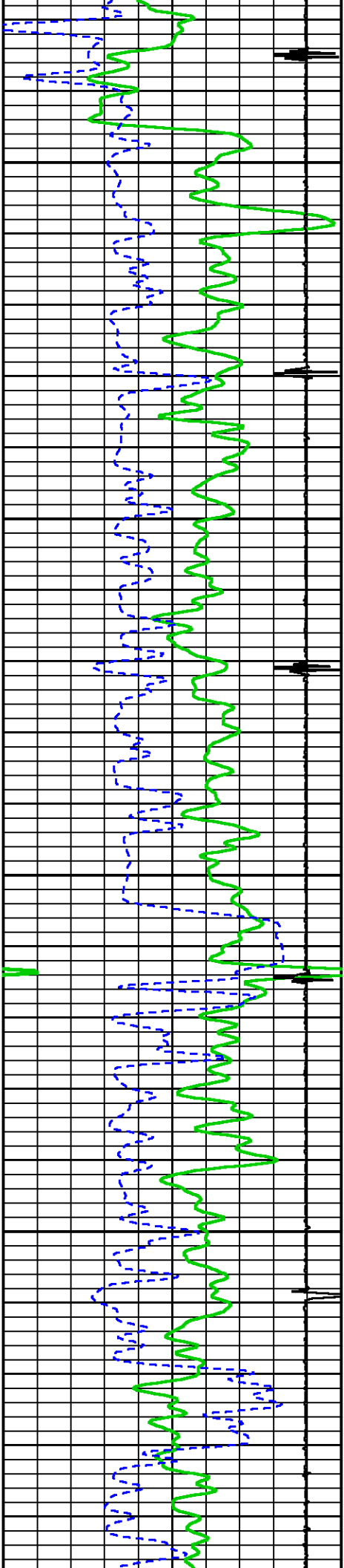
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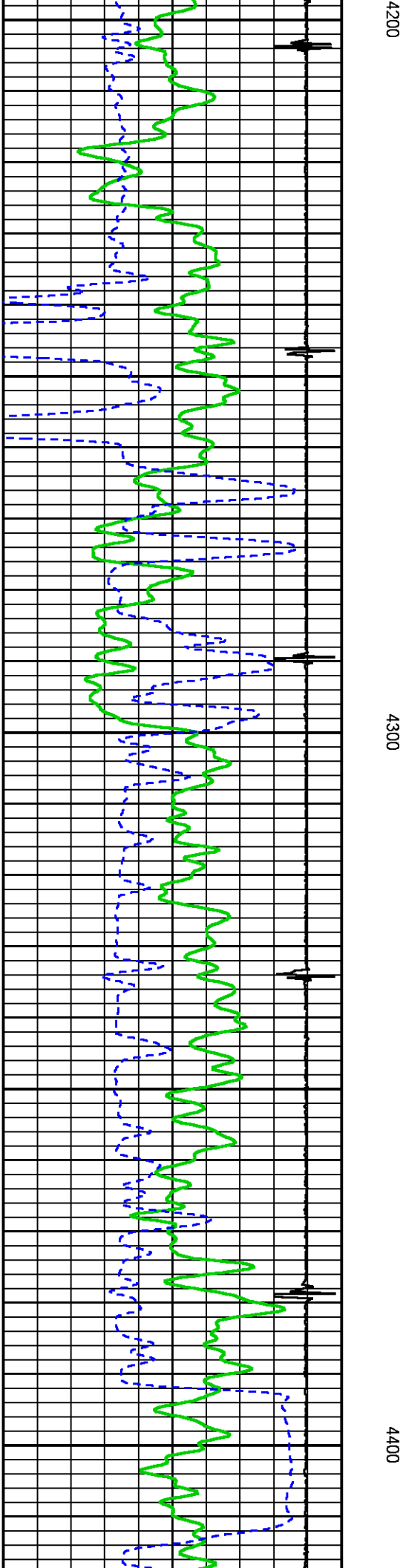
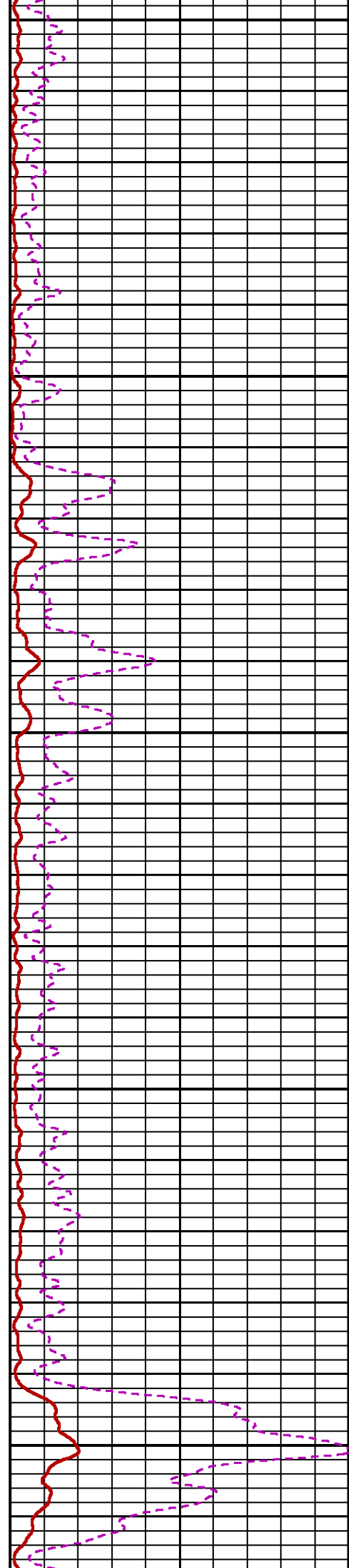
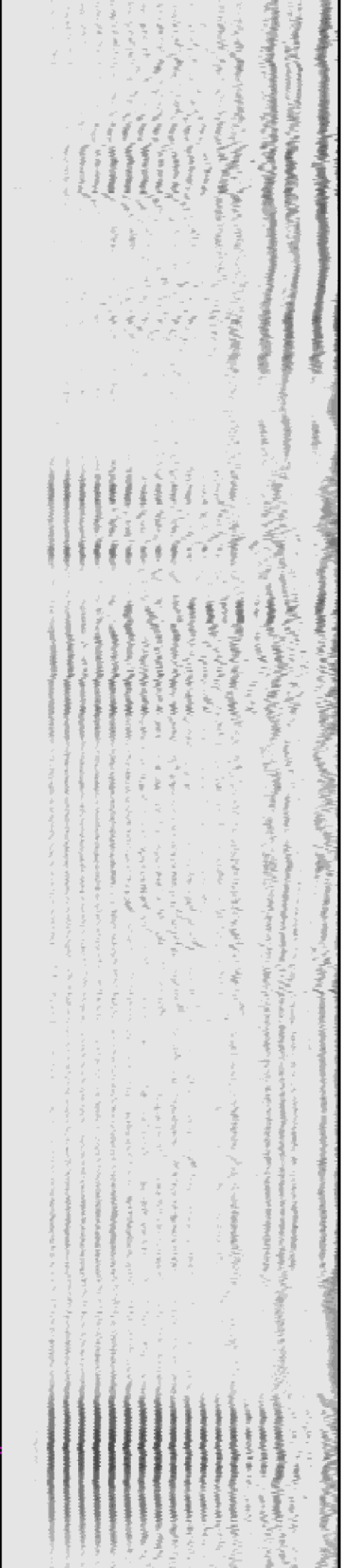
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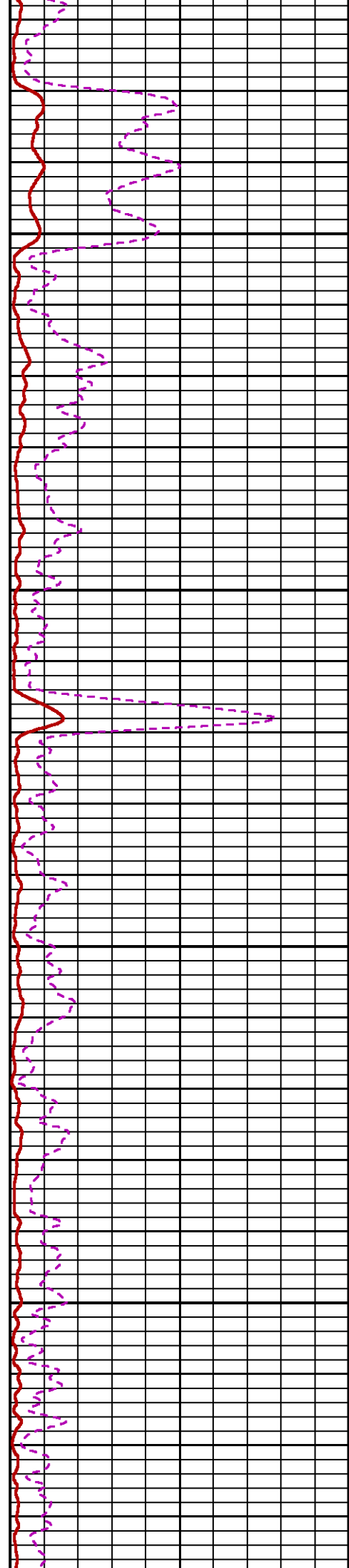
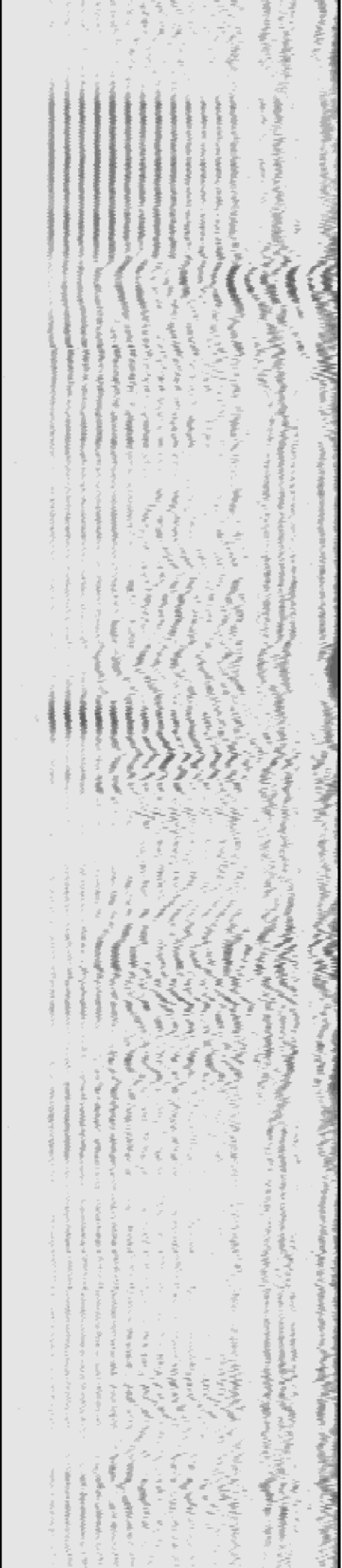


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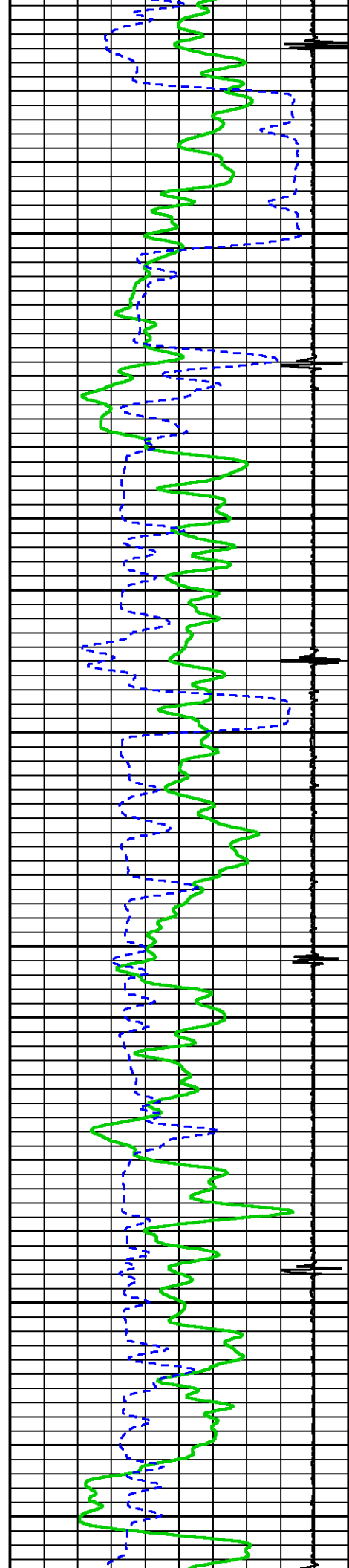


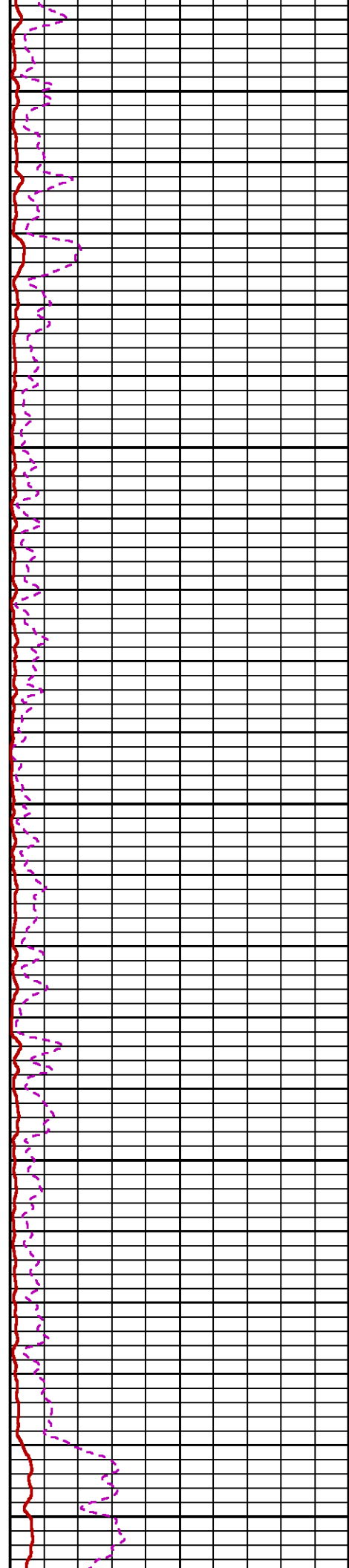
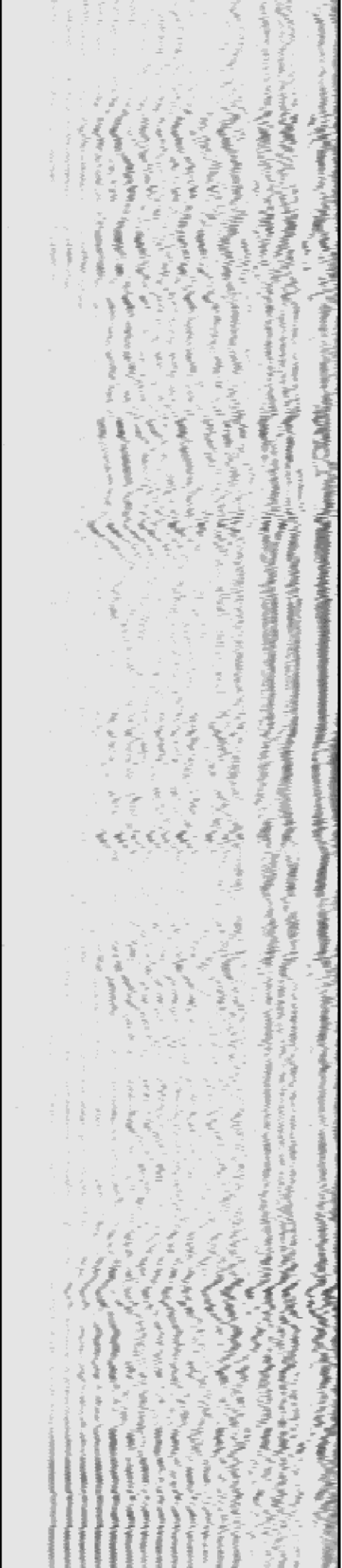




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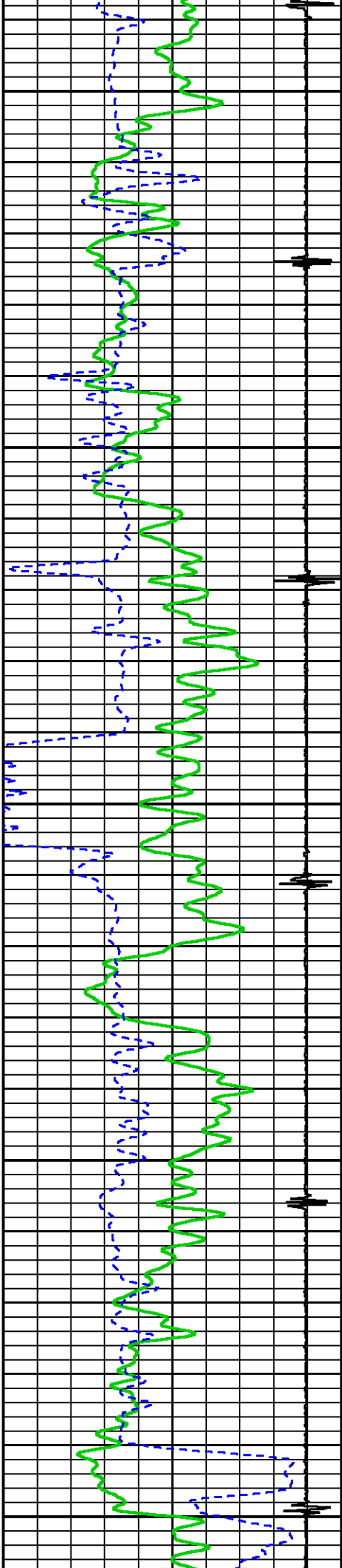
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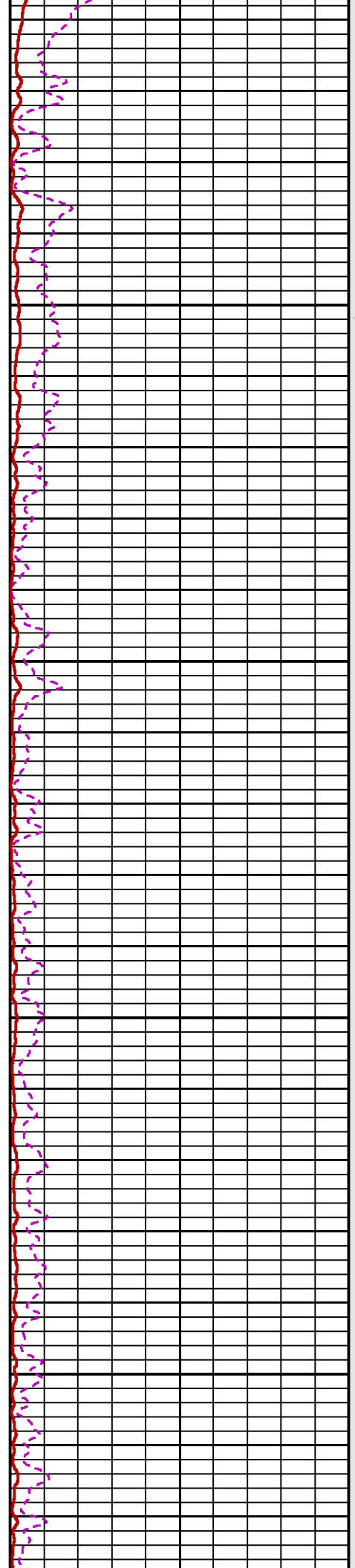
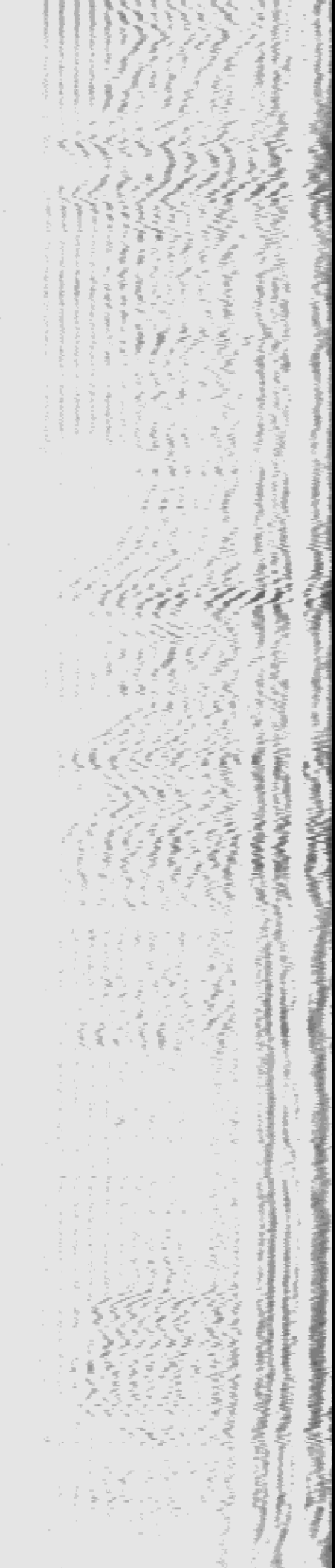


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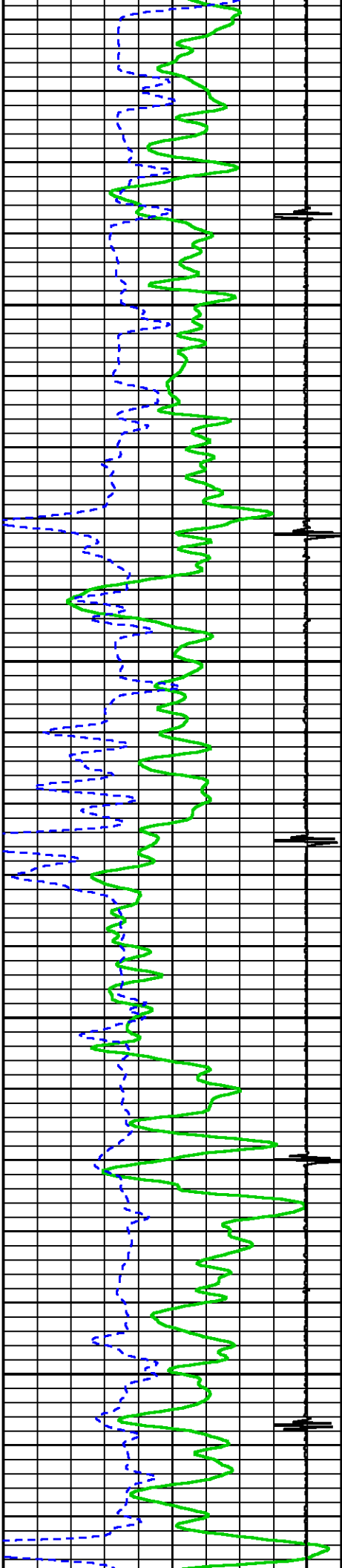




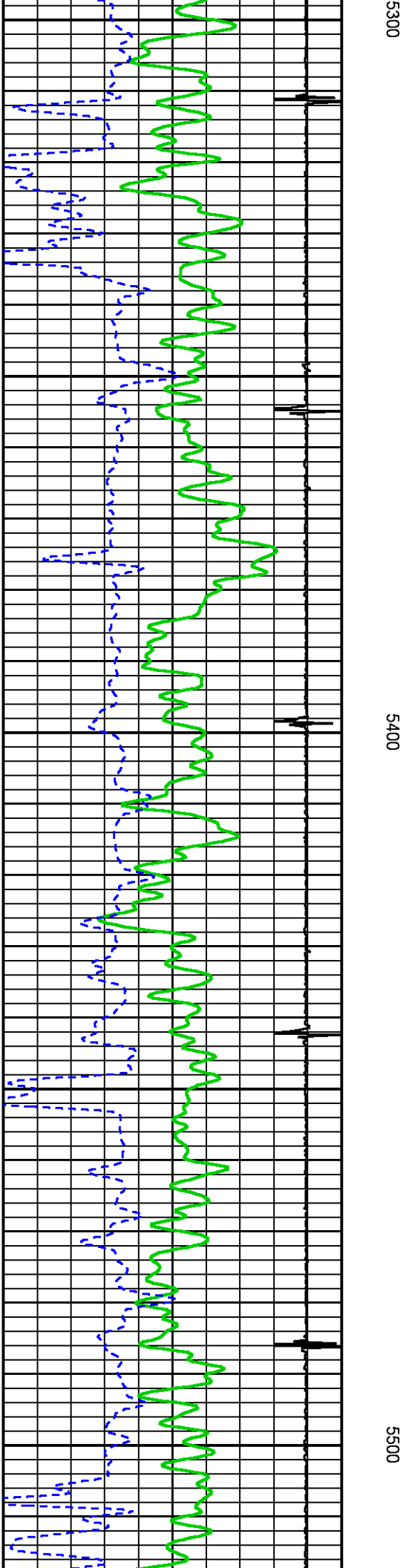
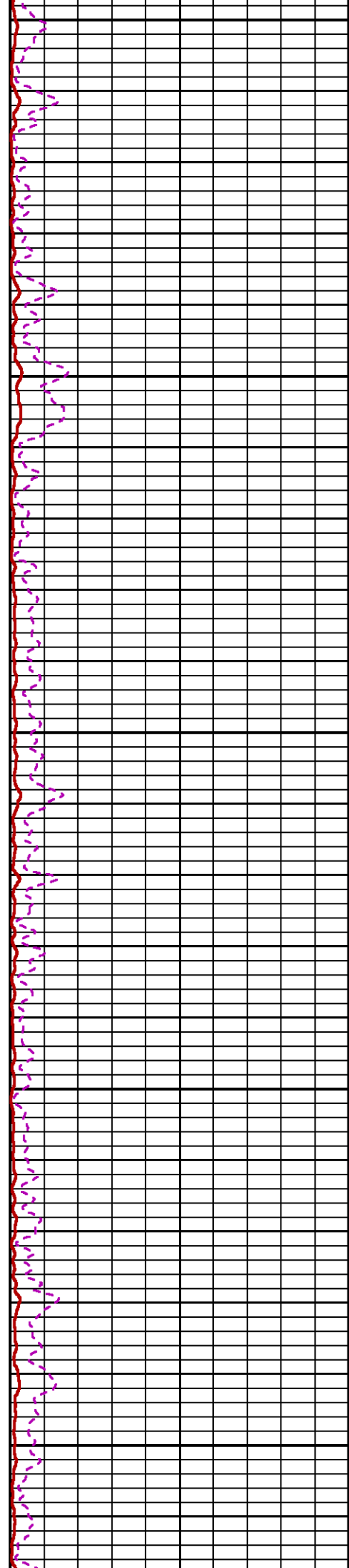
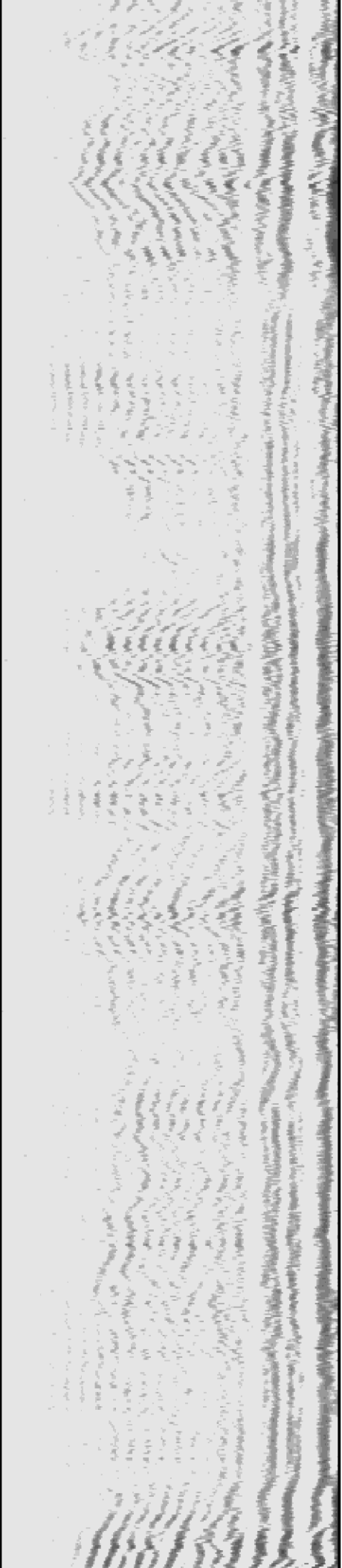


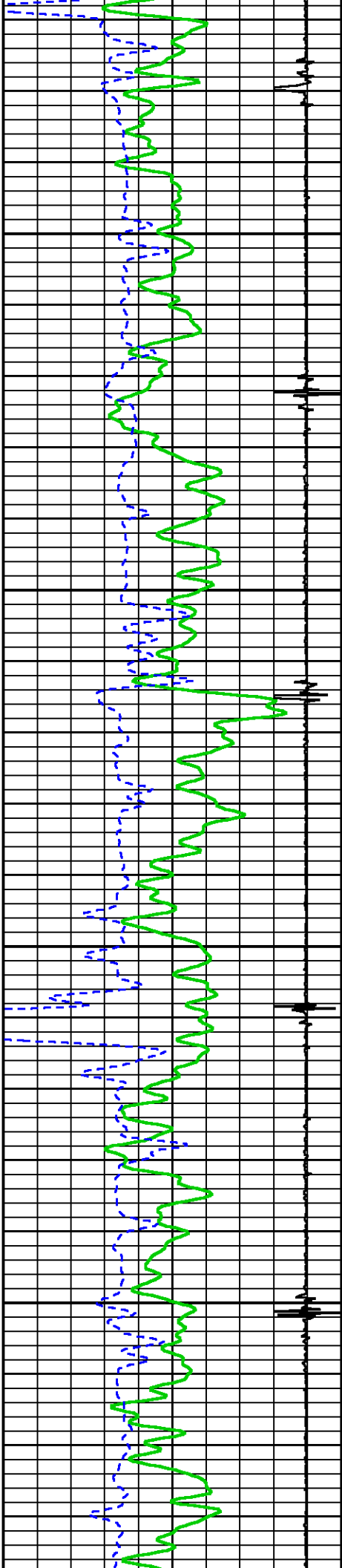
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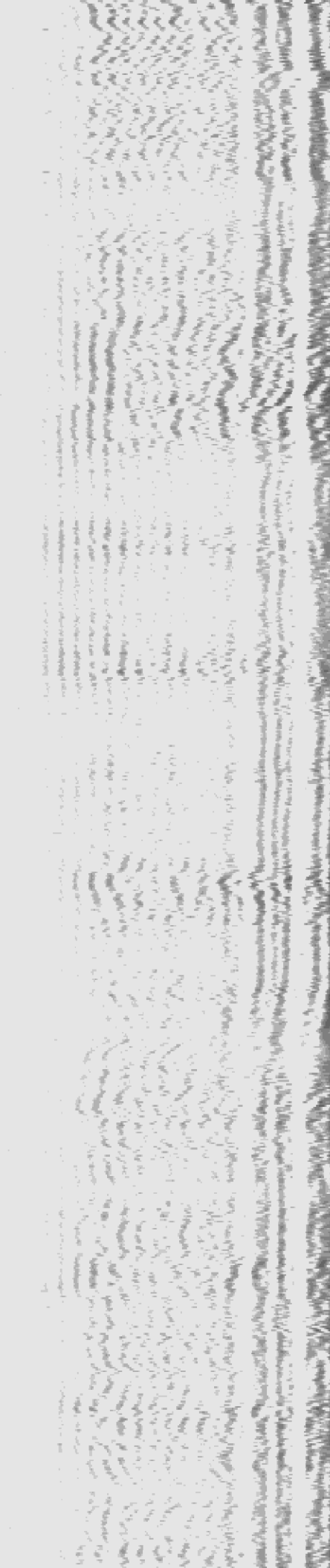
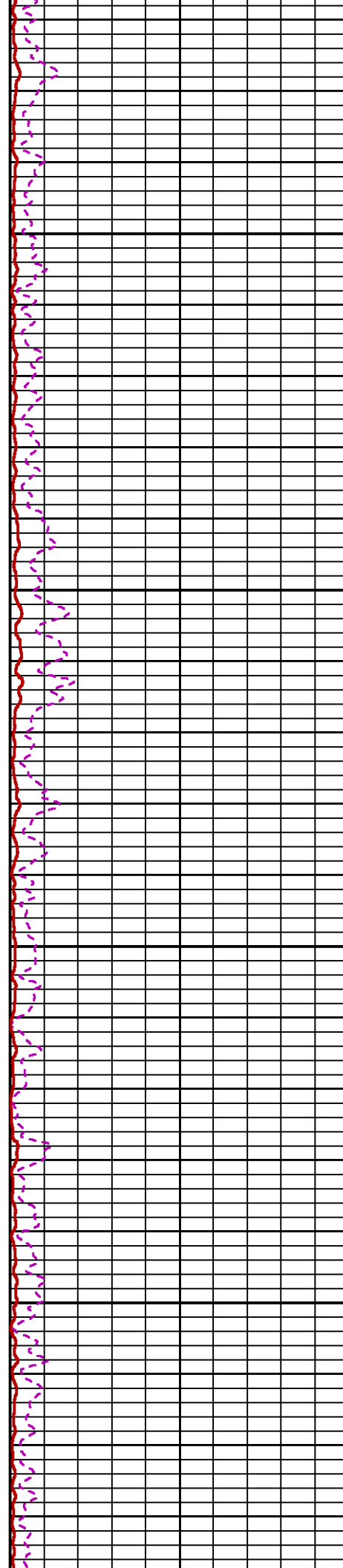


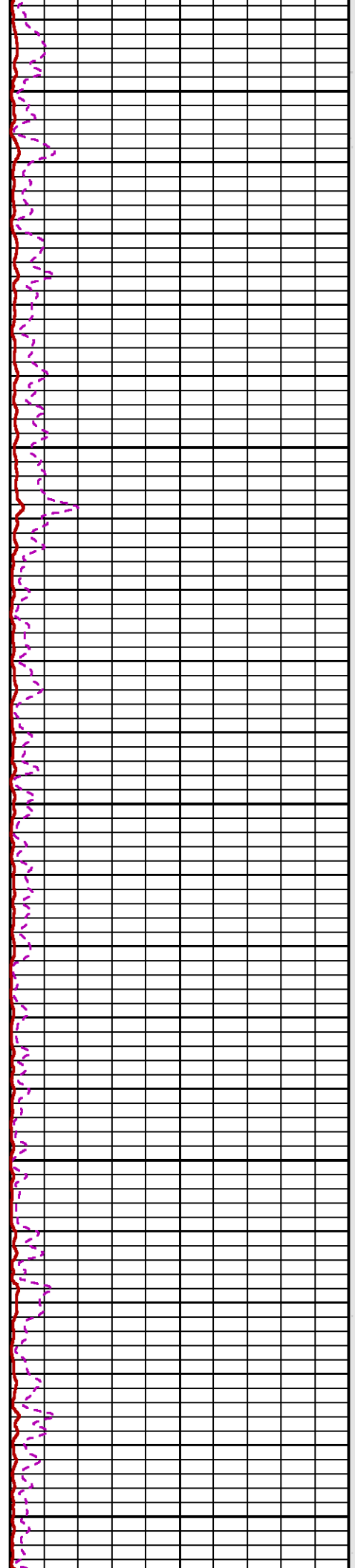
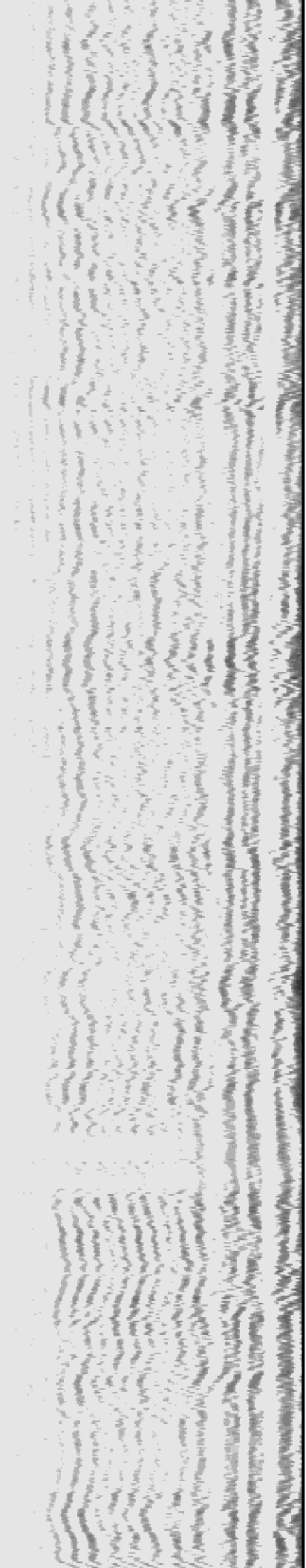




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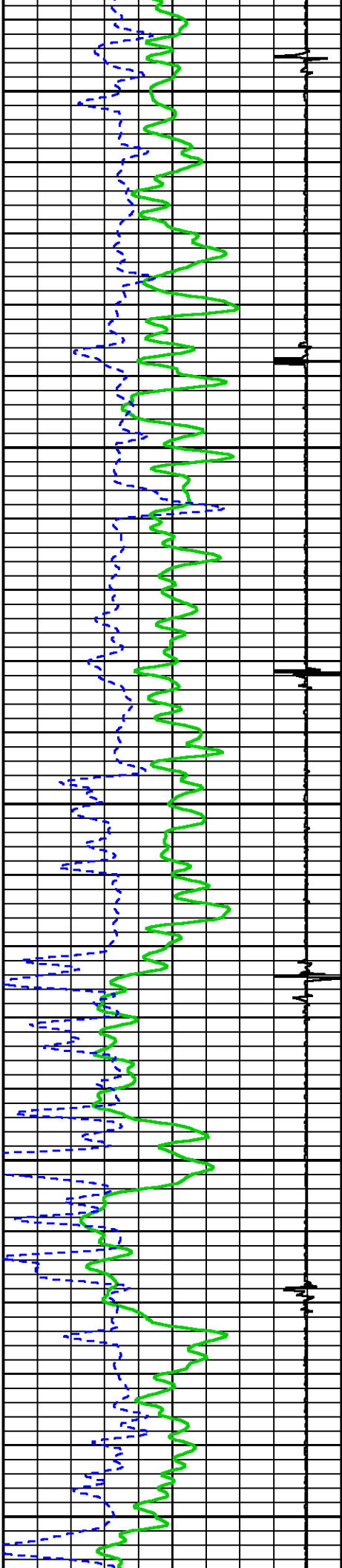
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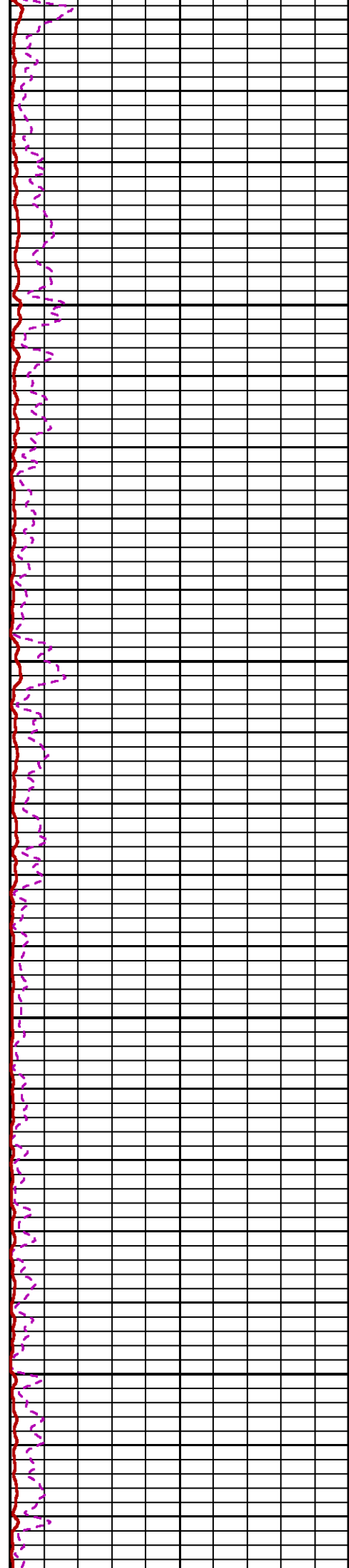


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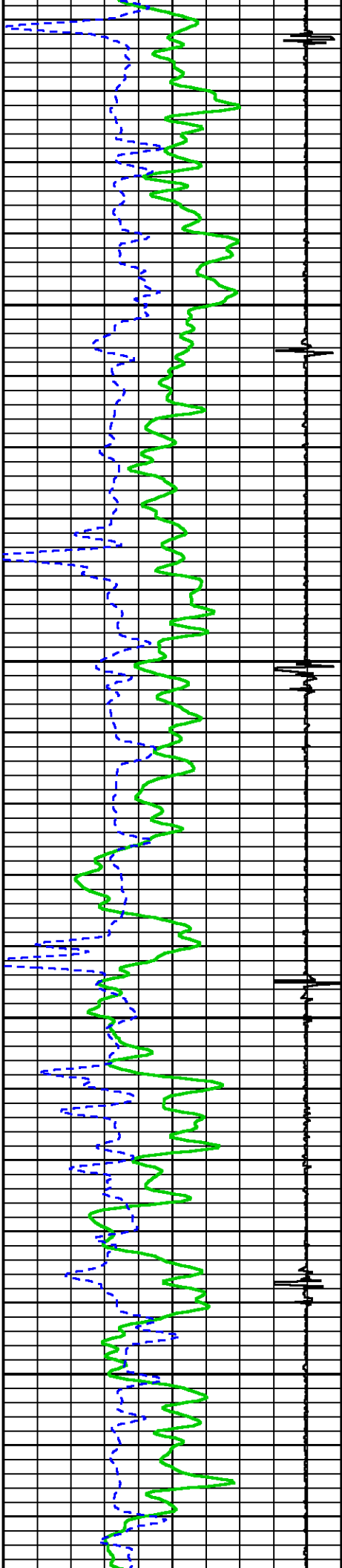


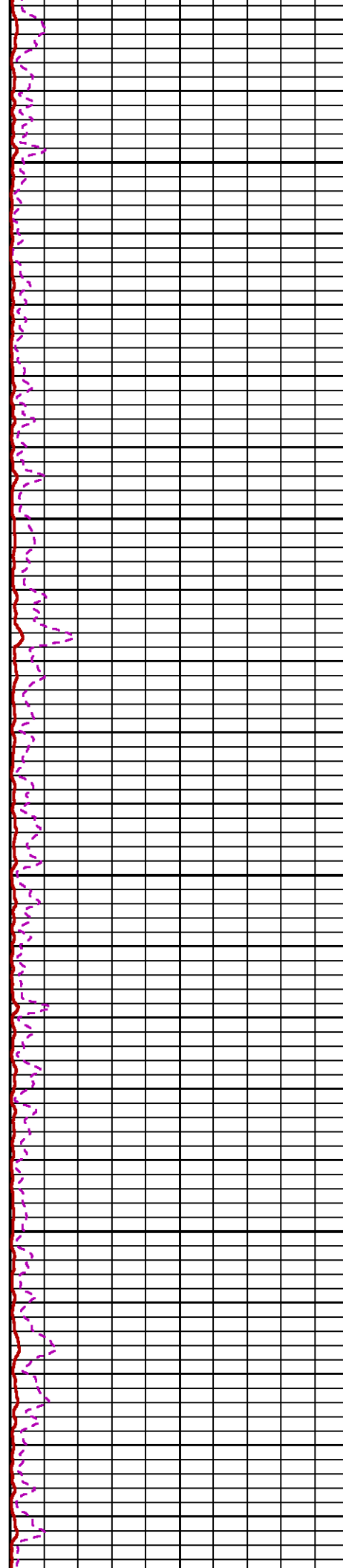
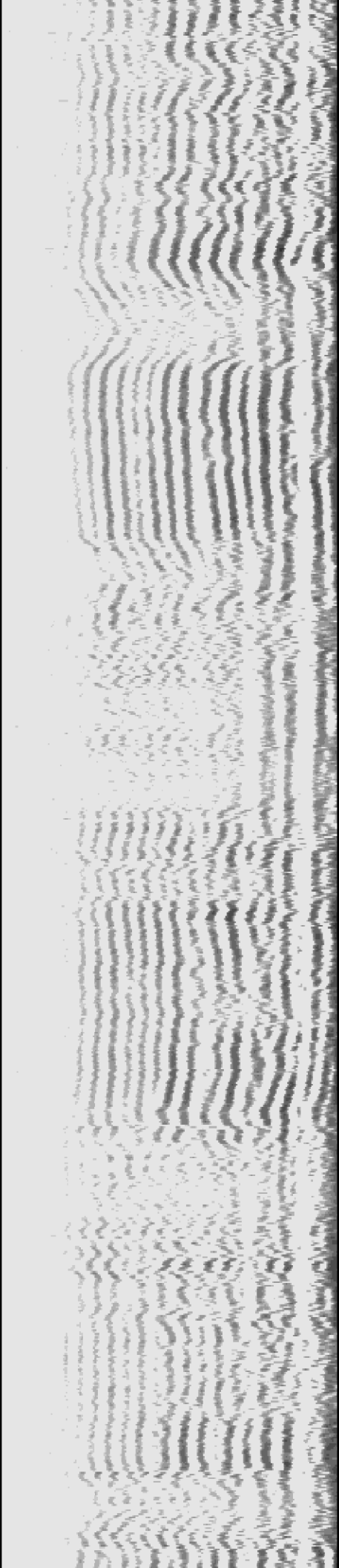




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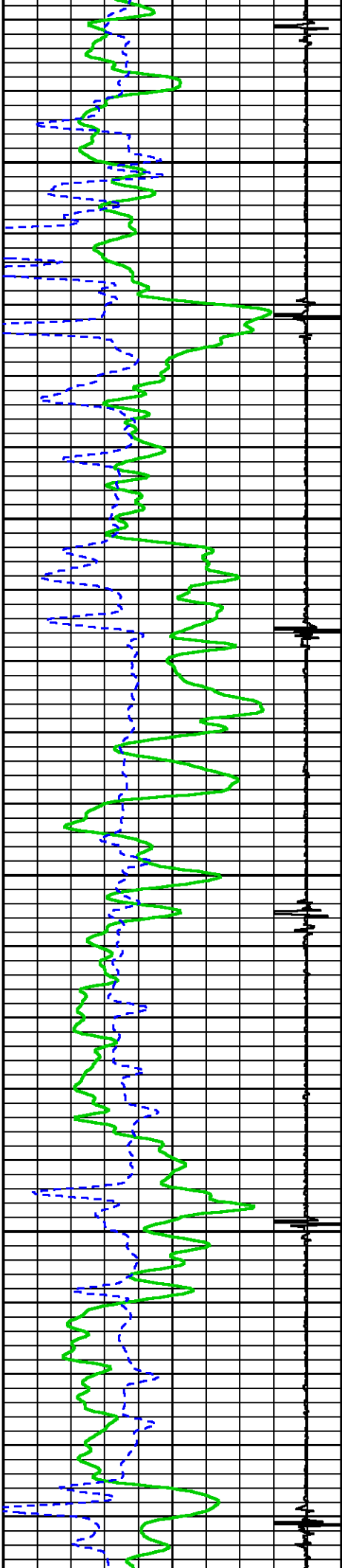
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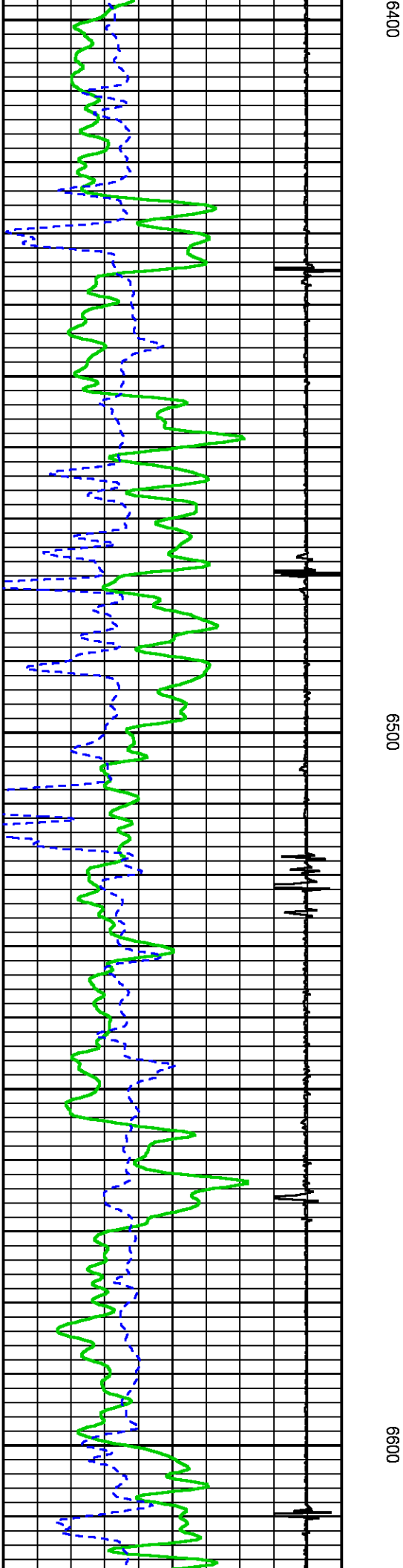
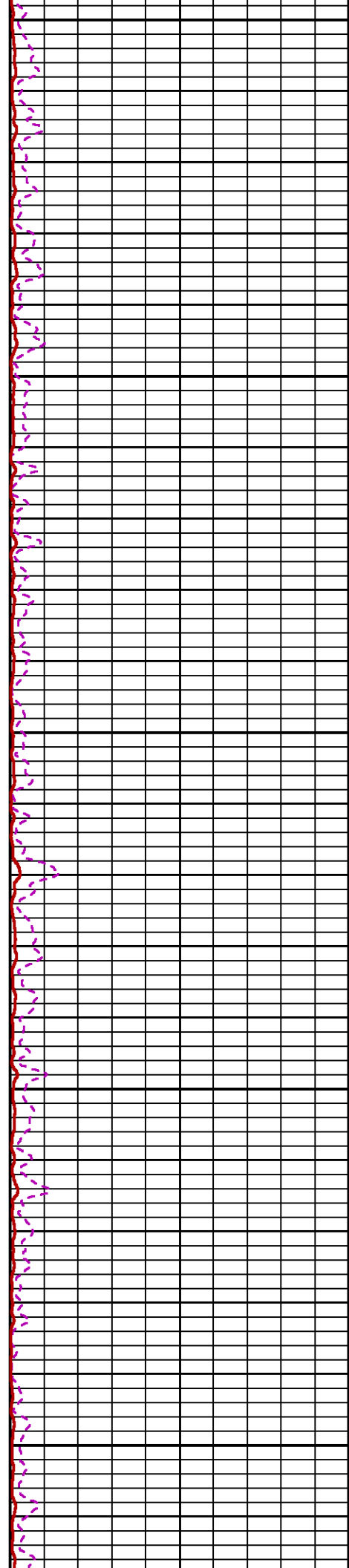
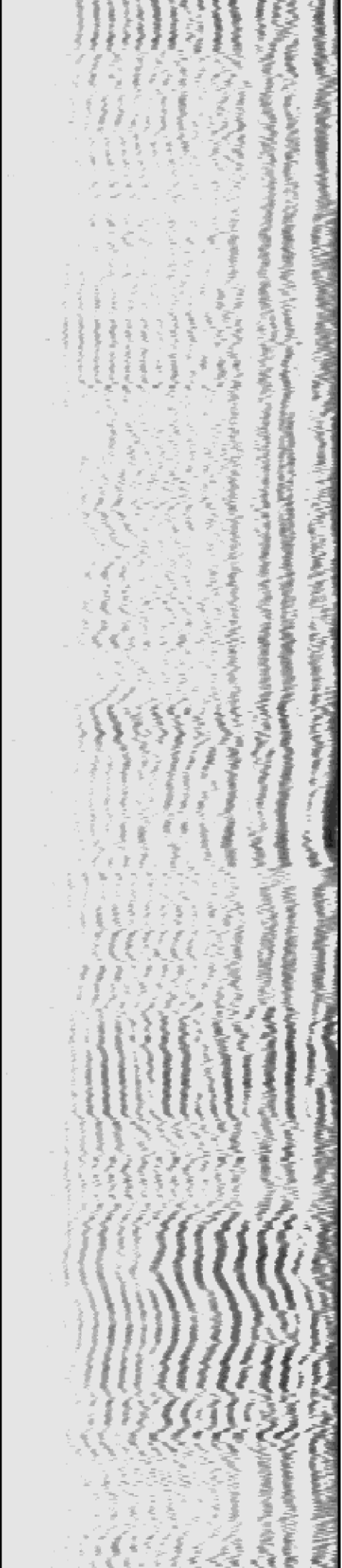


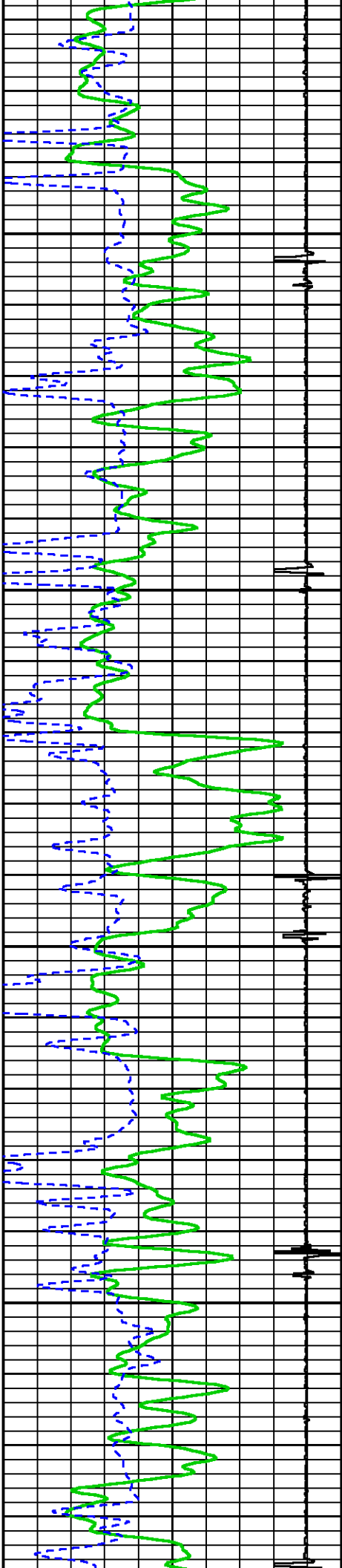


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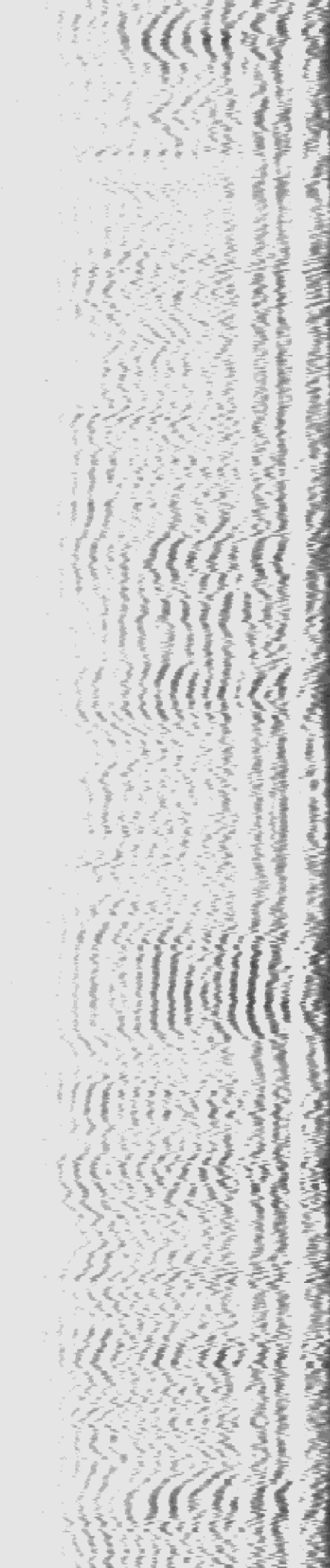


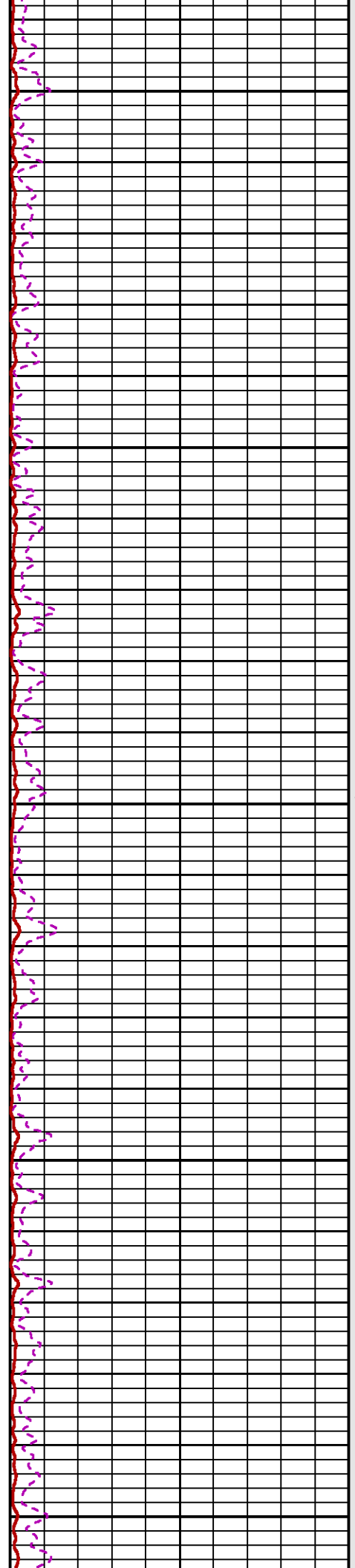
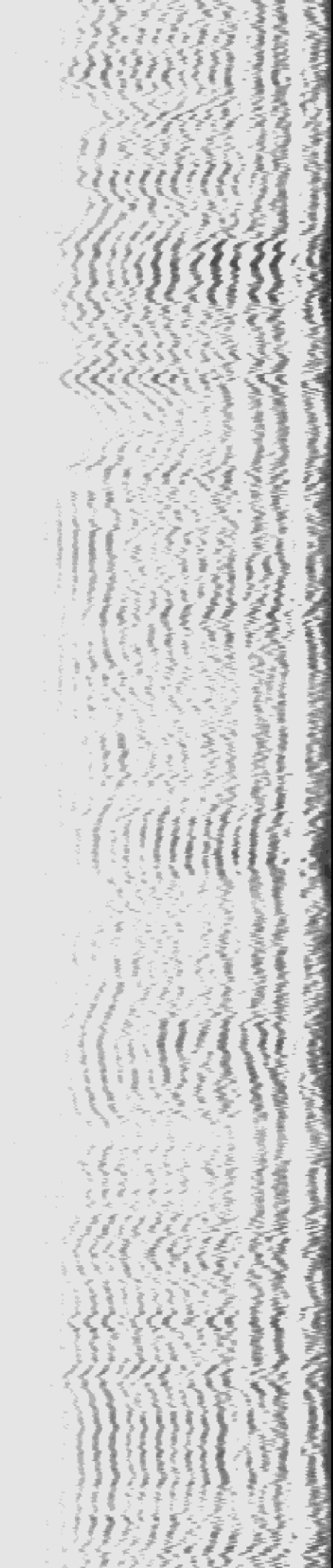


SHORT  
JOINT

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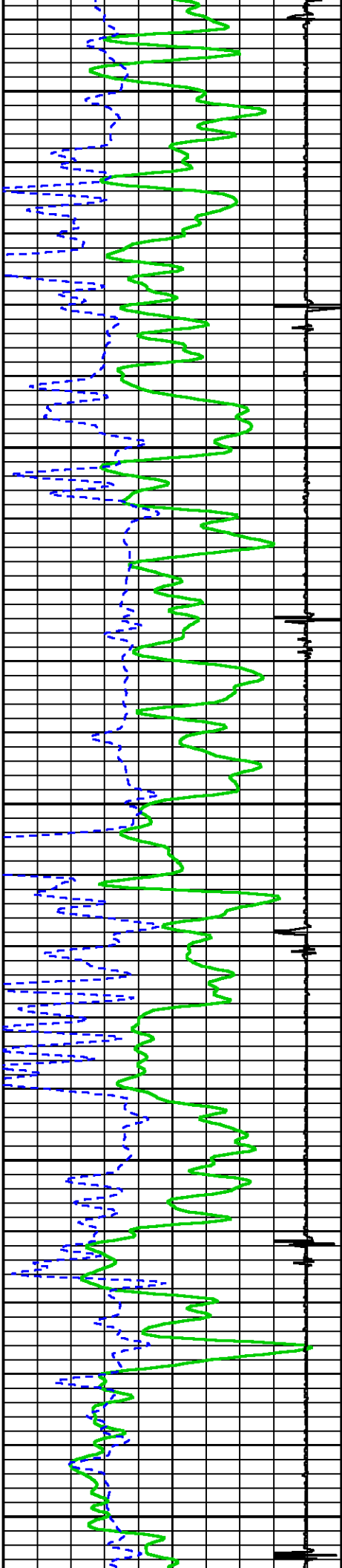
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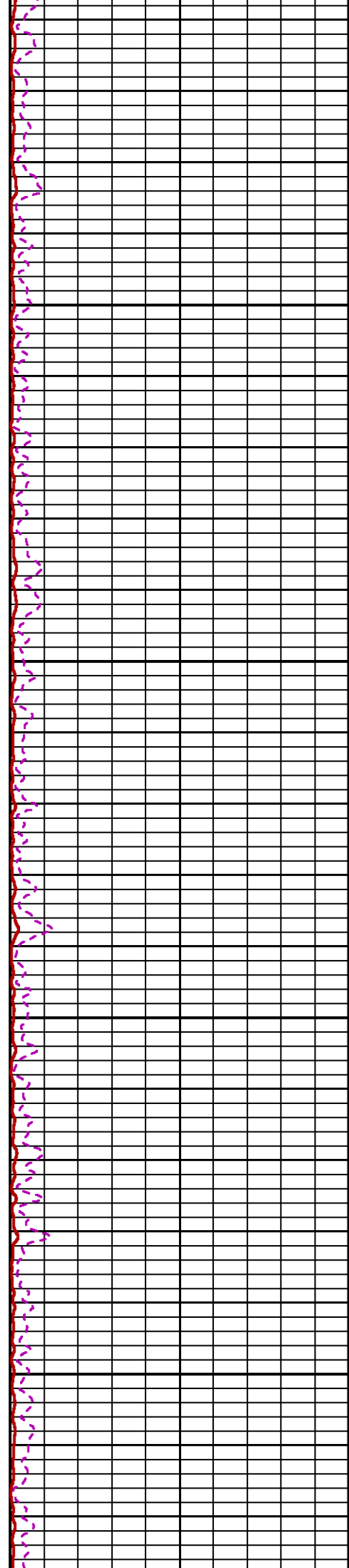
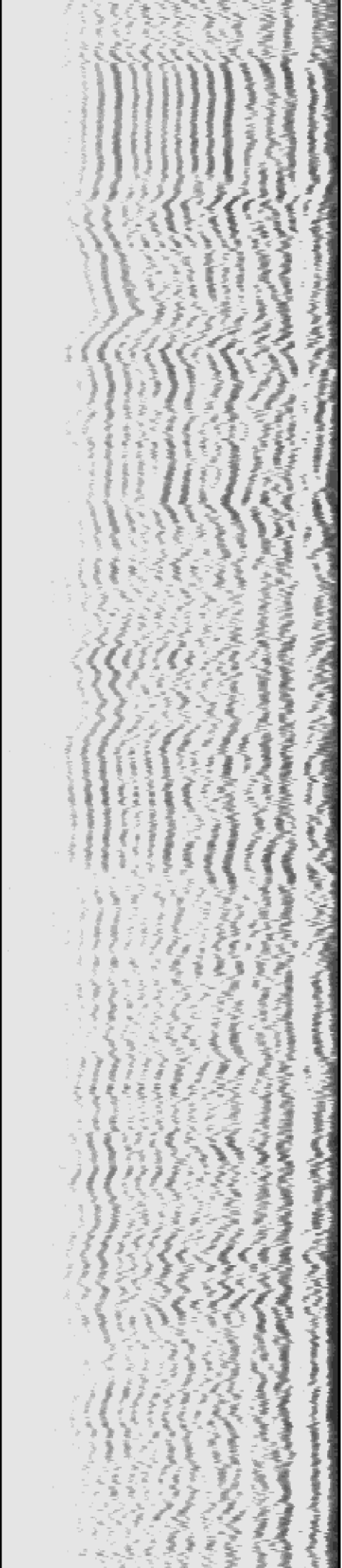


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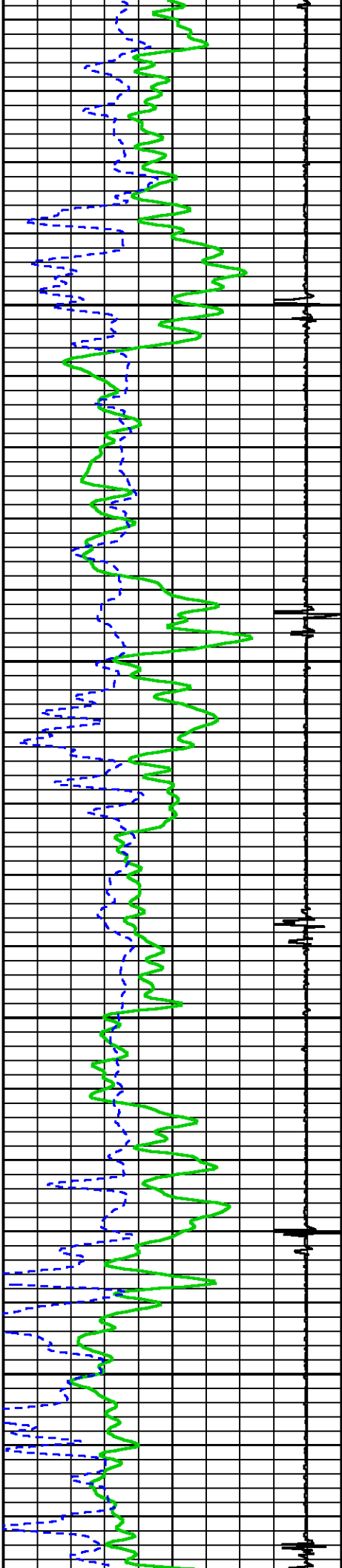


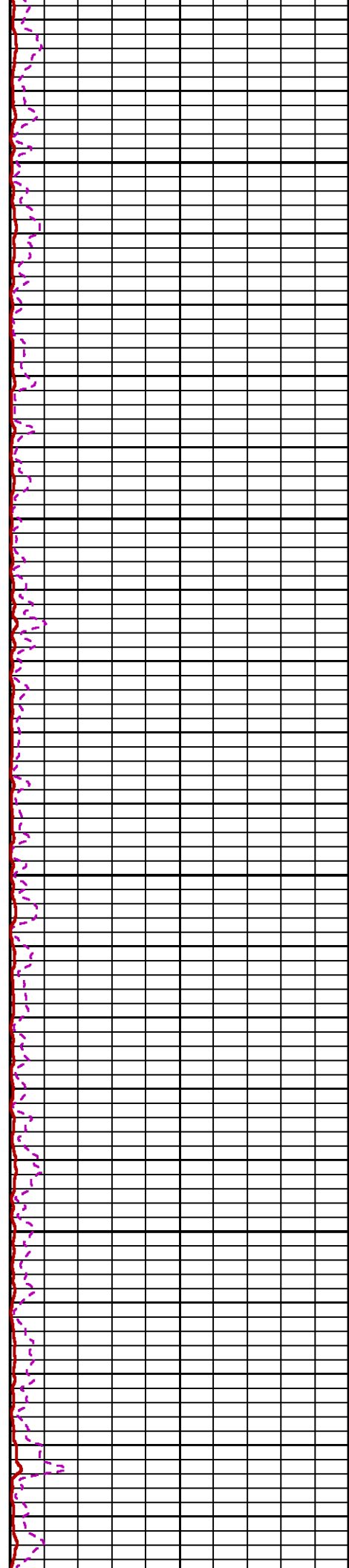
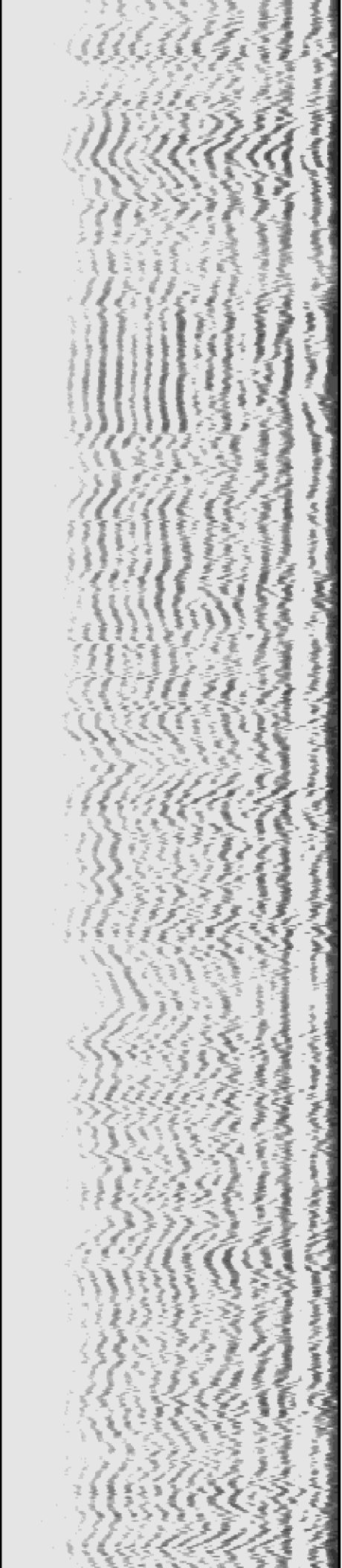




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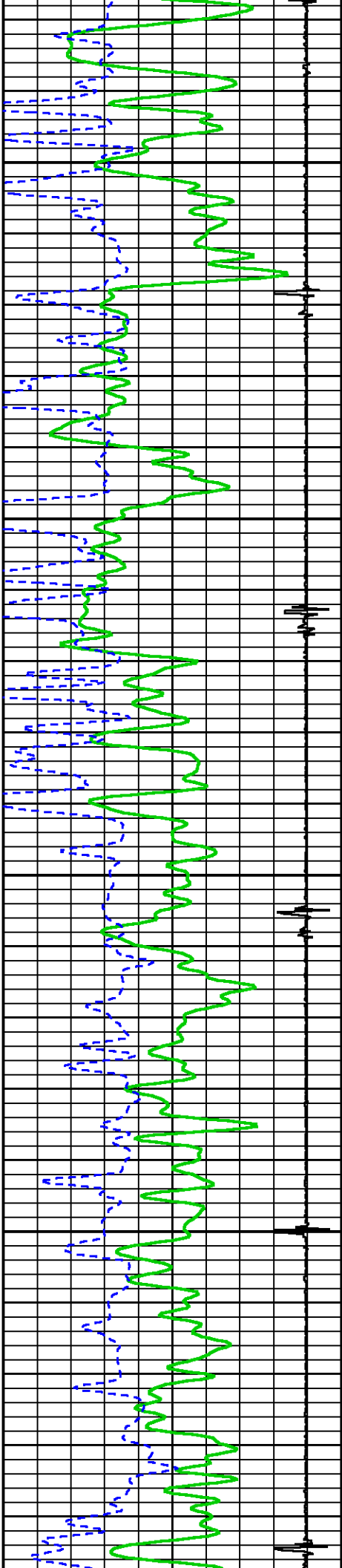
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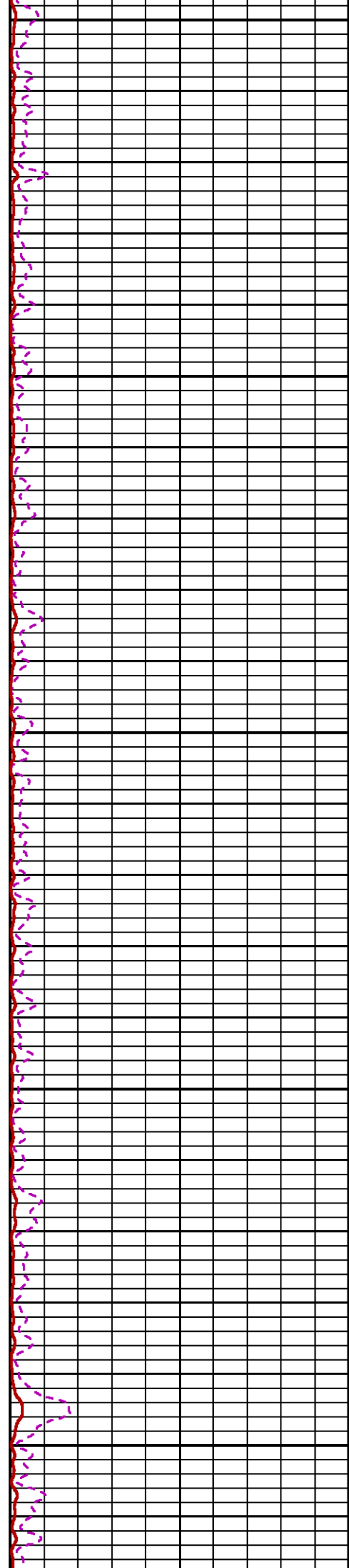




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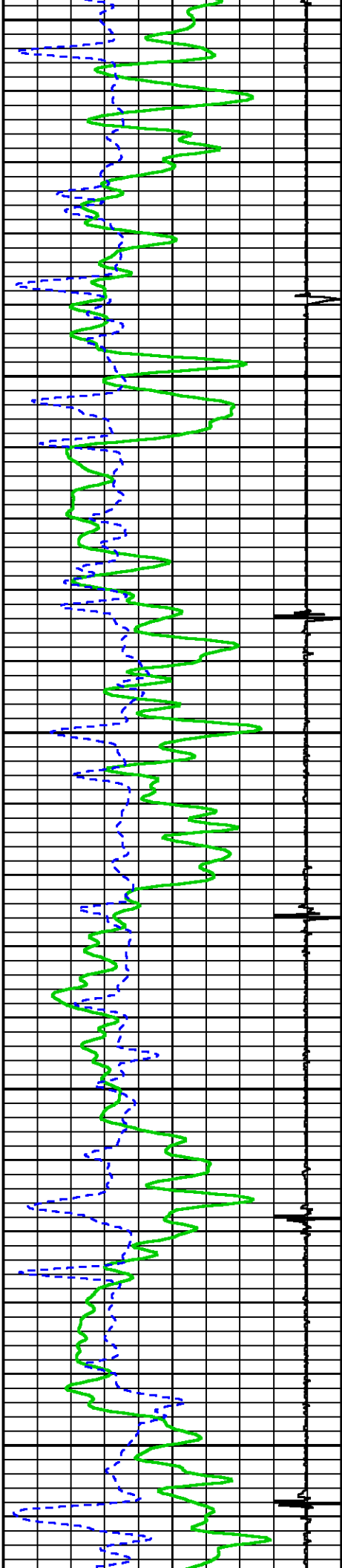


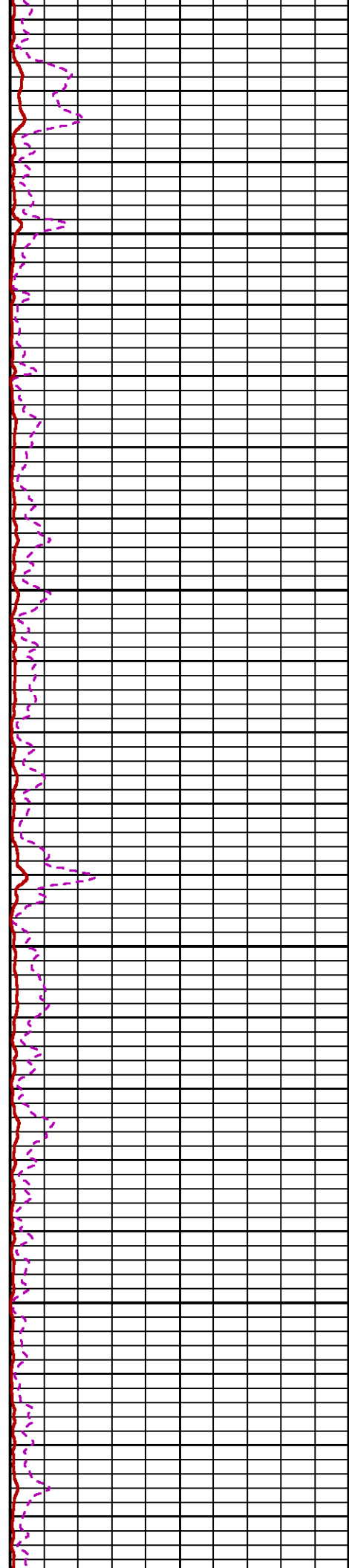
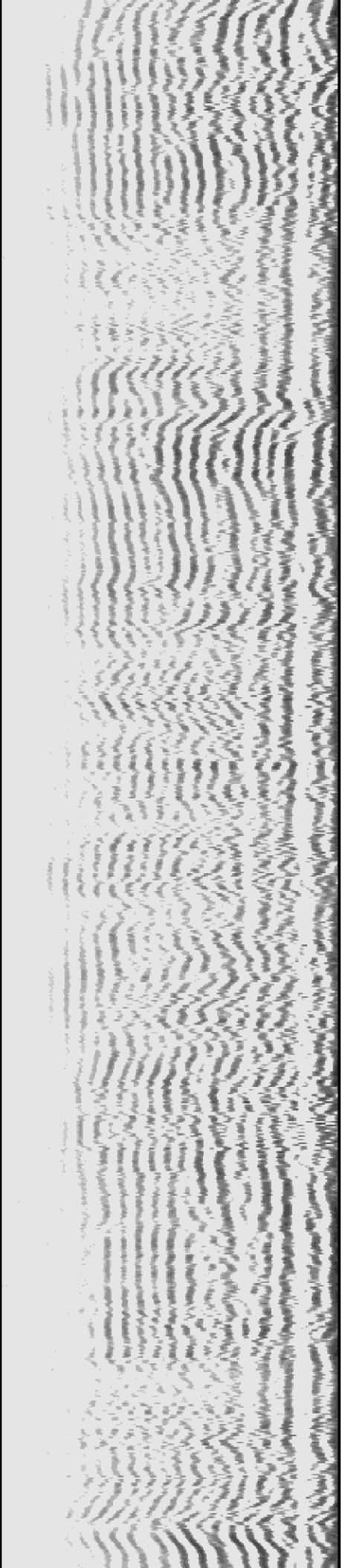


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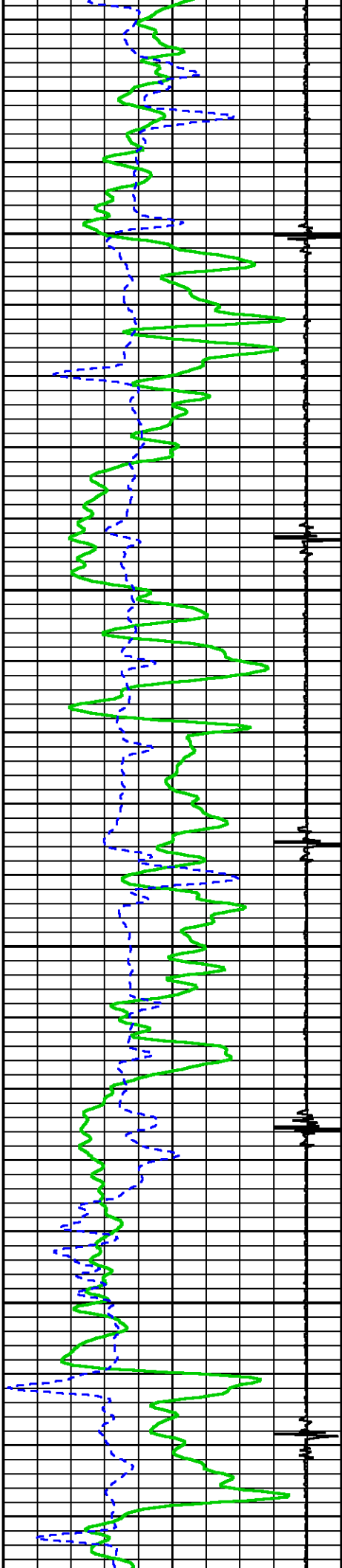
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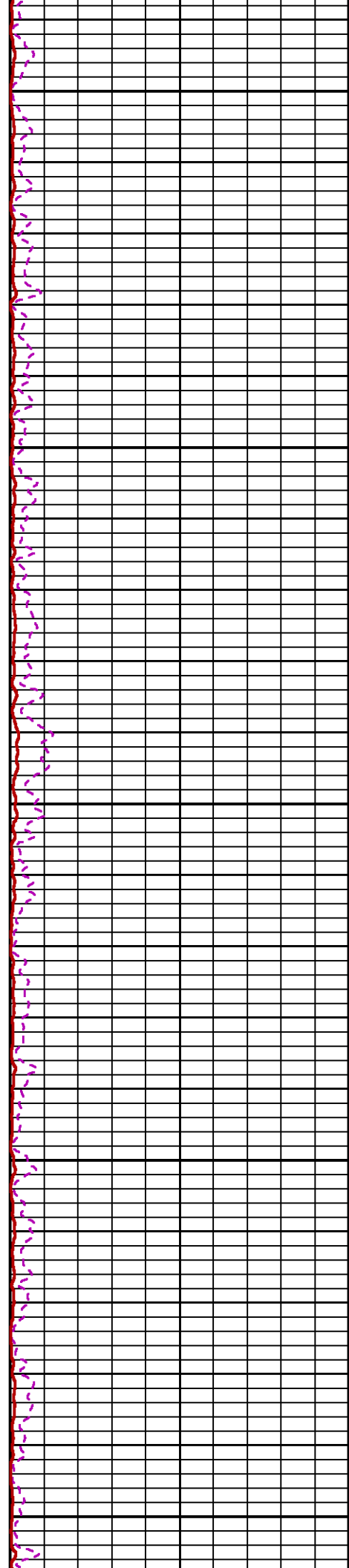
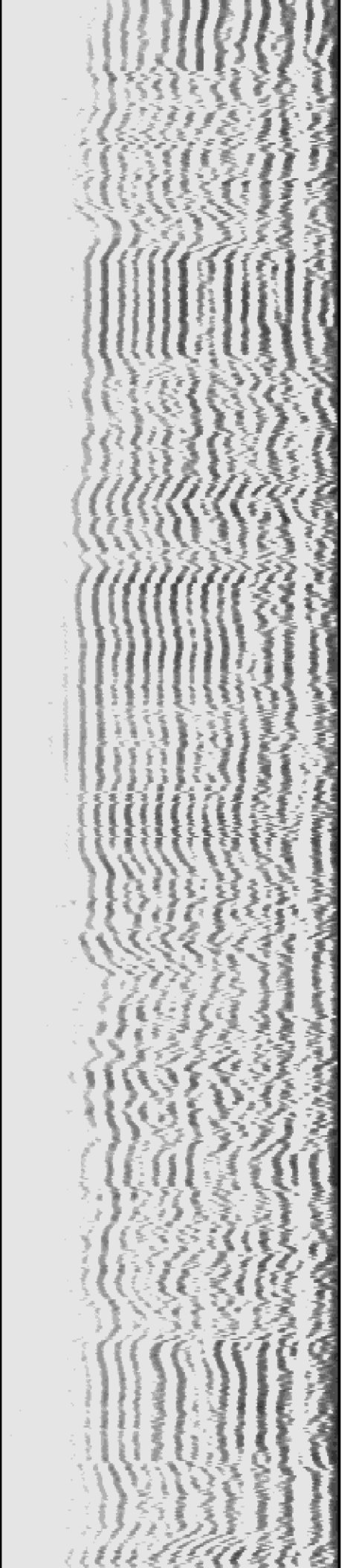




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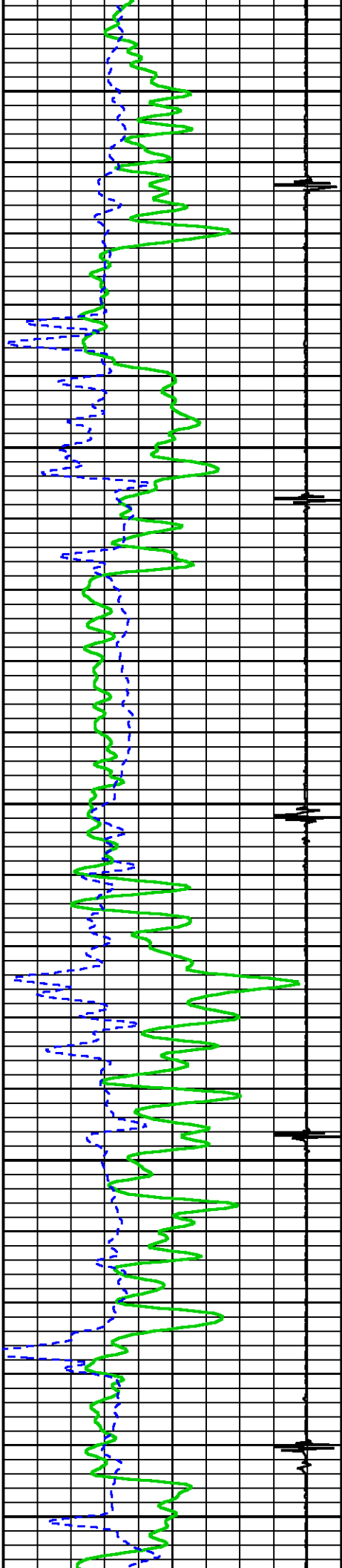
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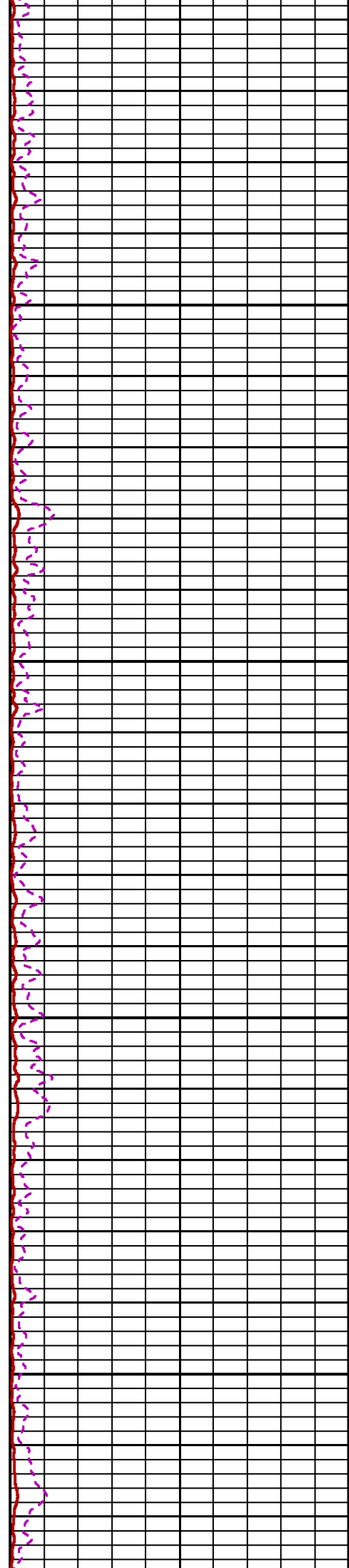
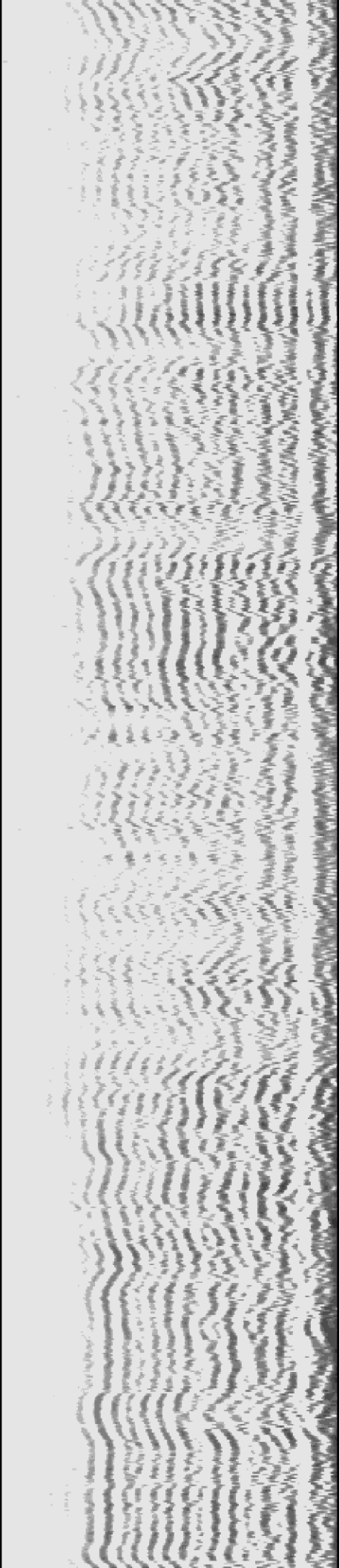


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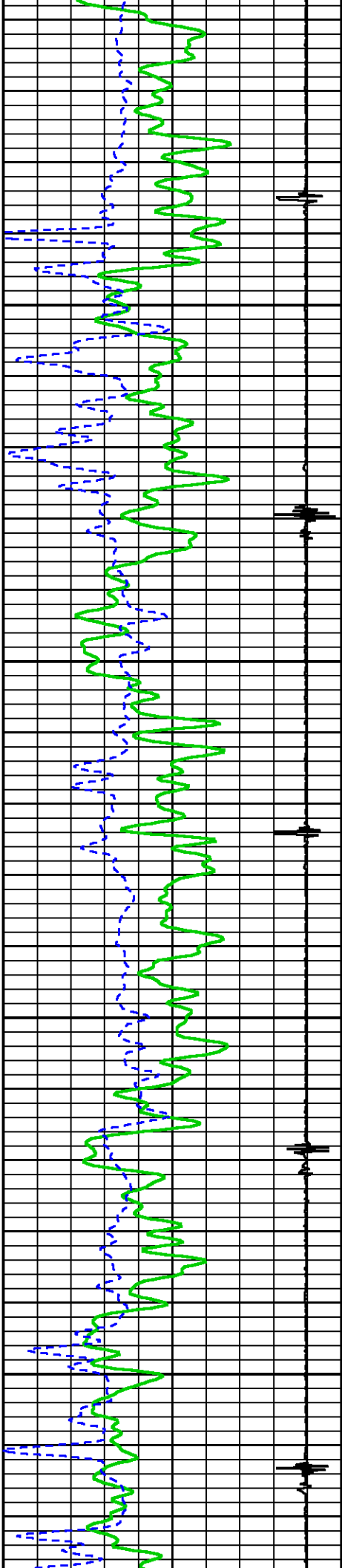


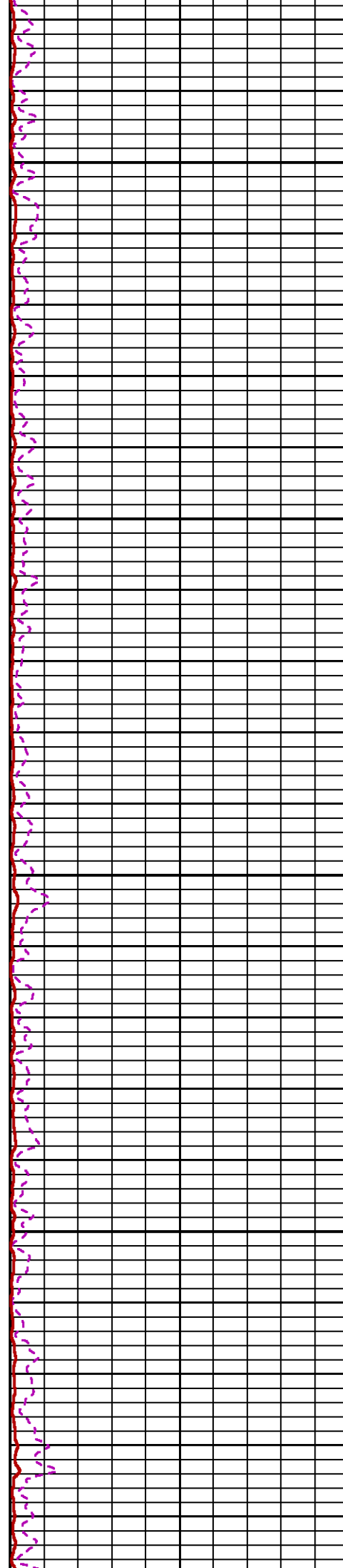




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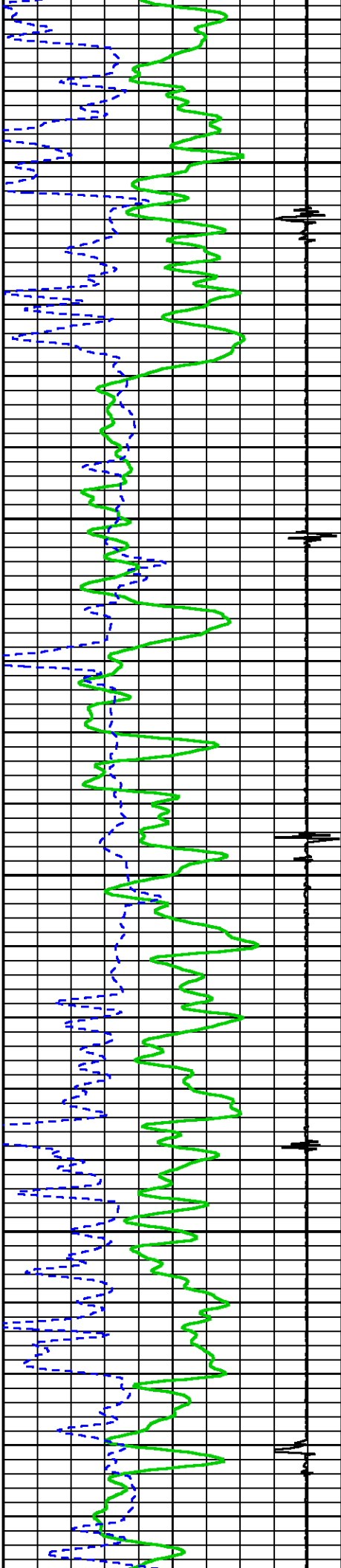
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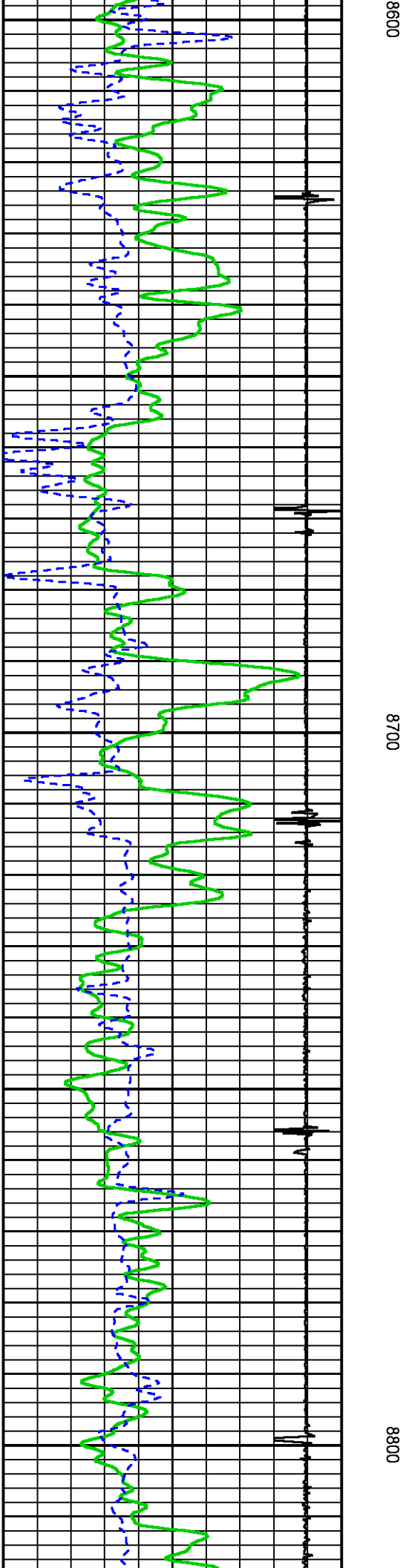
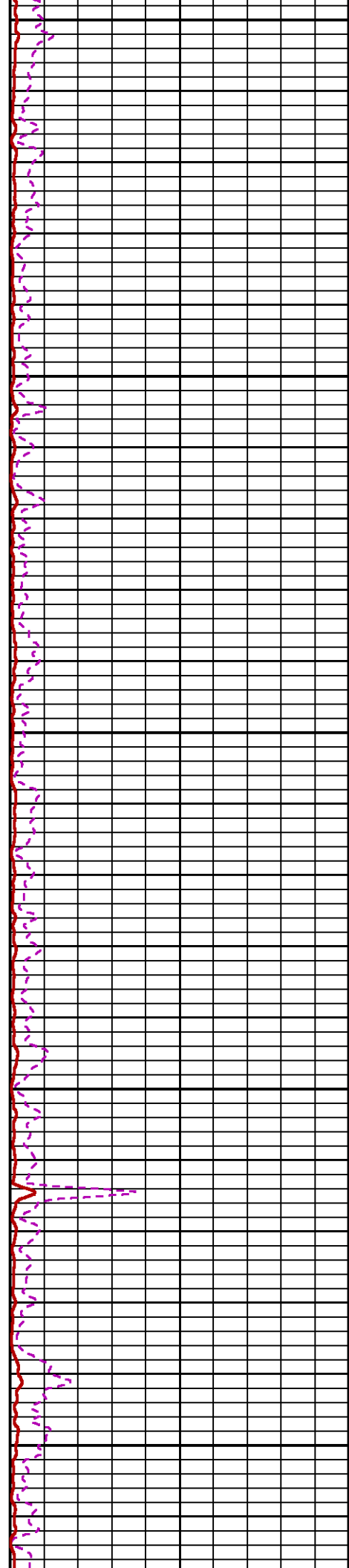
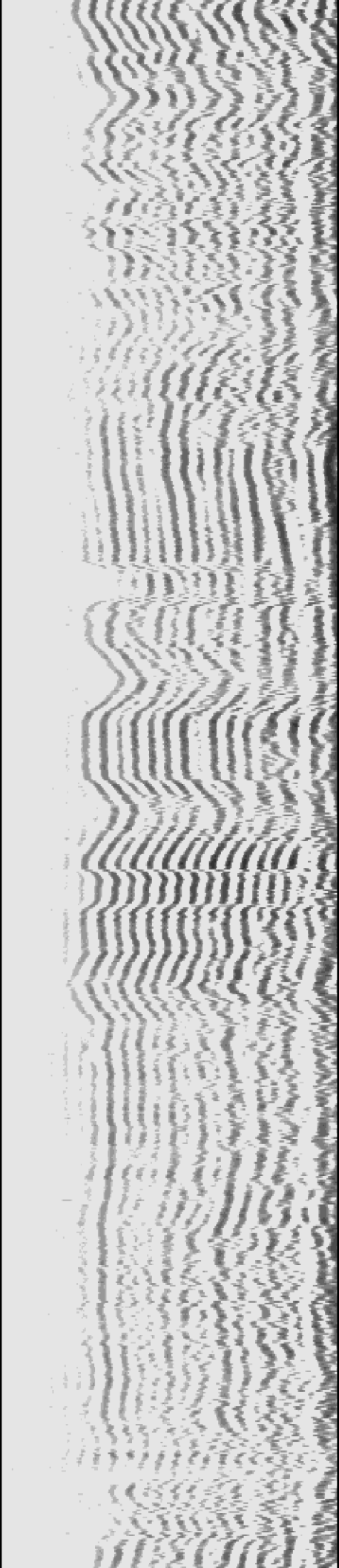


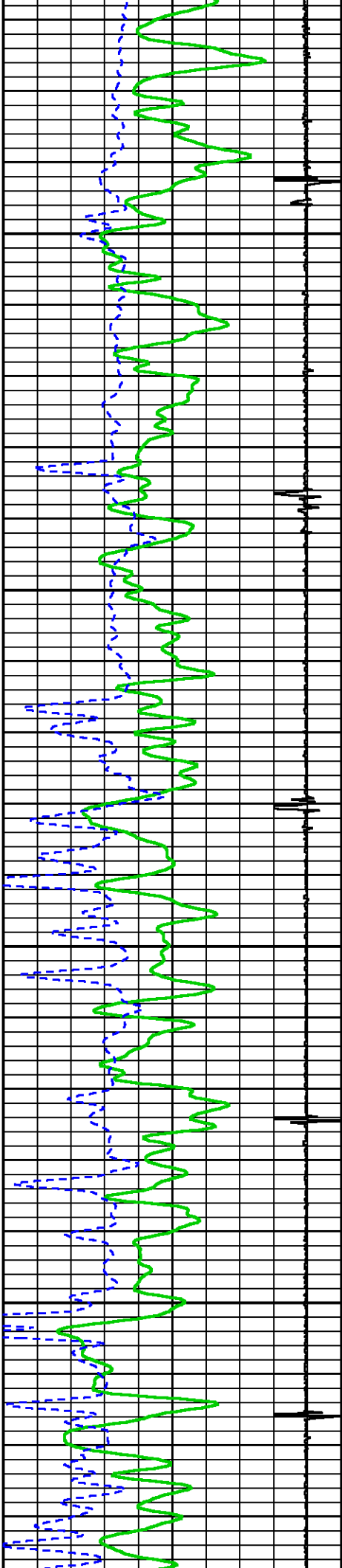


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8500

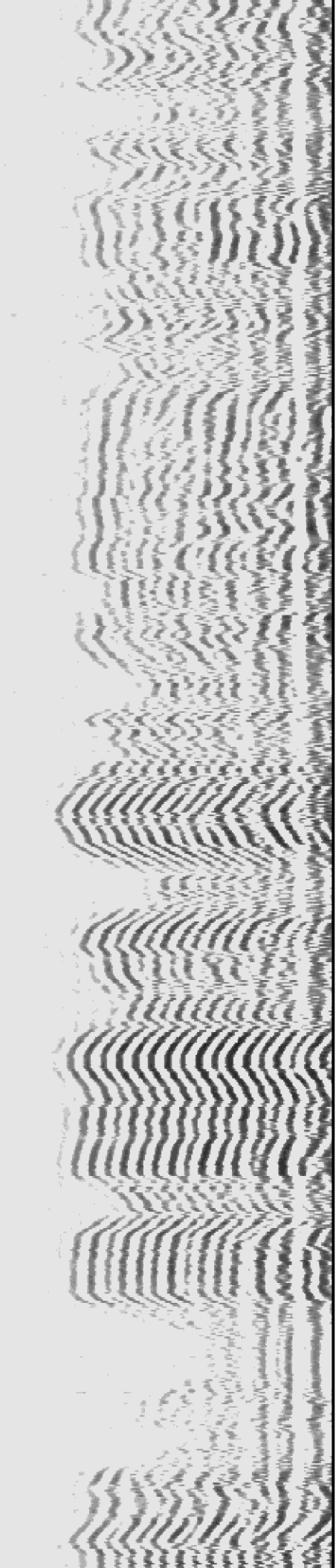
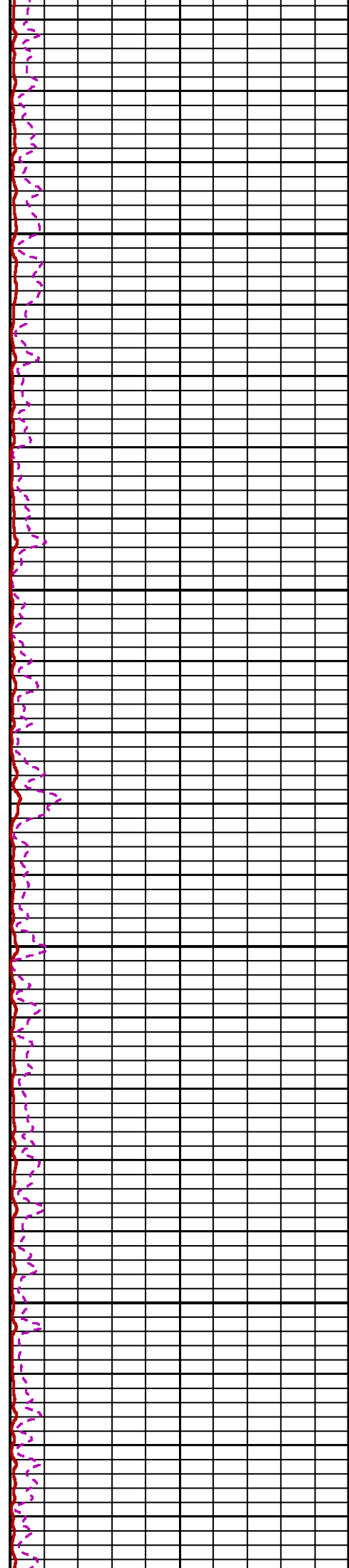


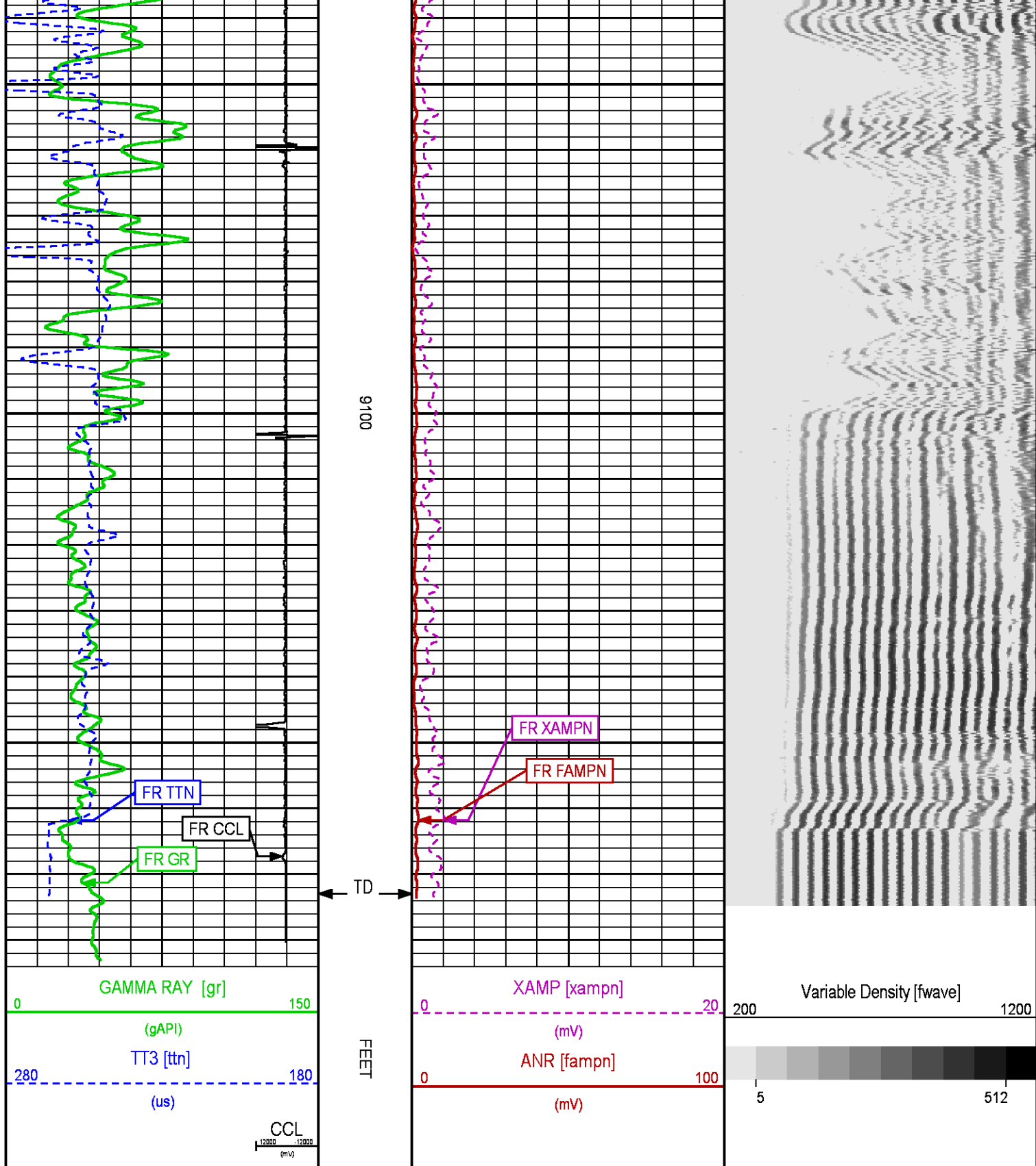




9000

8000





REPEAT LOG 0 PSI

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105973/n012g01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 8899.000 ft BOTTOM DEPTH: 9185.819 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	172	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-71	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

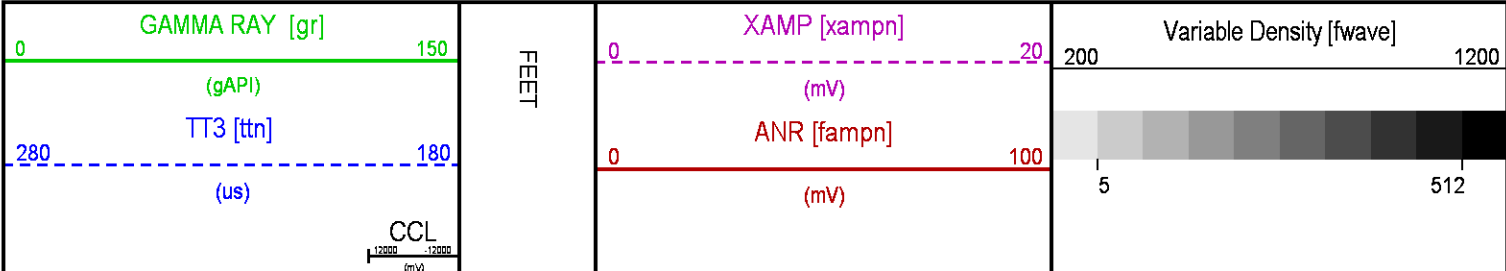
CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 27 07:56:53 2016	CASING COLLAR LOCATOR
F1:FAMPN	Feb 27 07:56:53 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 27 07:56:53 2016	FAR WAVE FORM
F1:GR	Feb 27 07:56:53 2016	GAMMA RAY
F1:TTN	Feb 27 07:56:53 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 27 07:56:53 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

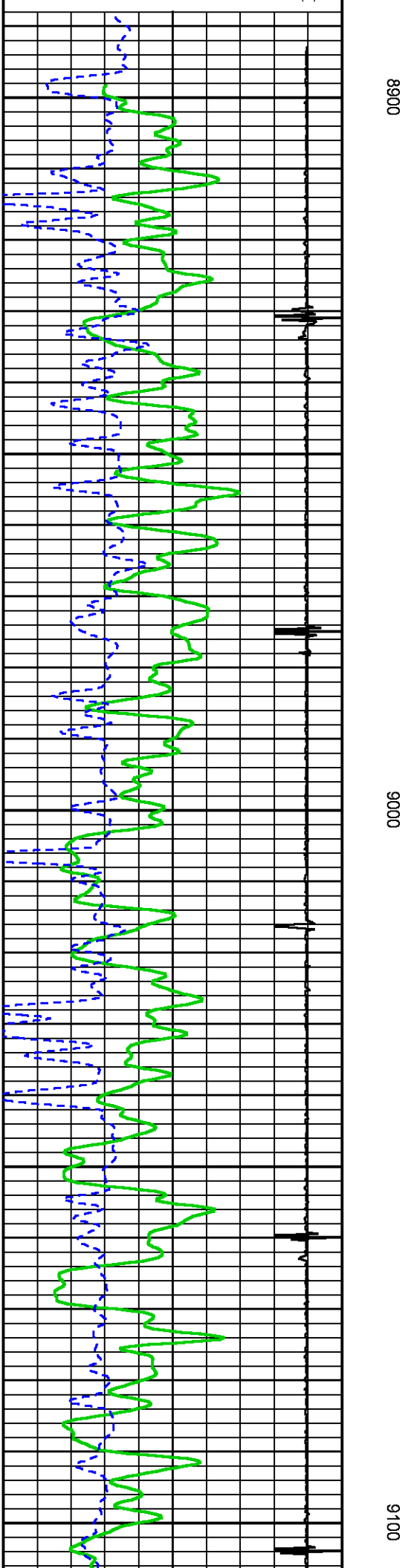
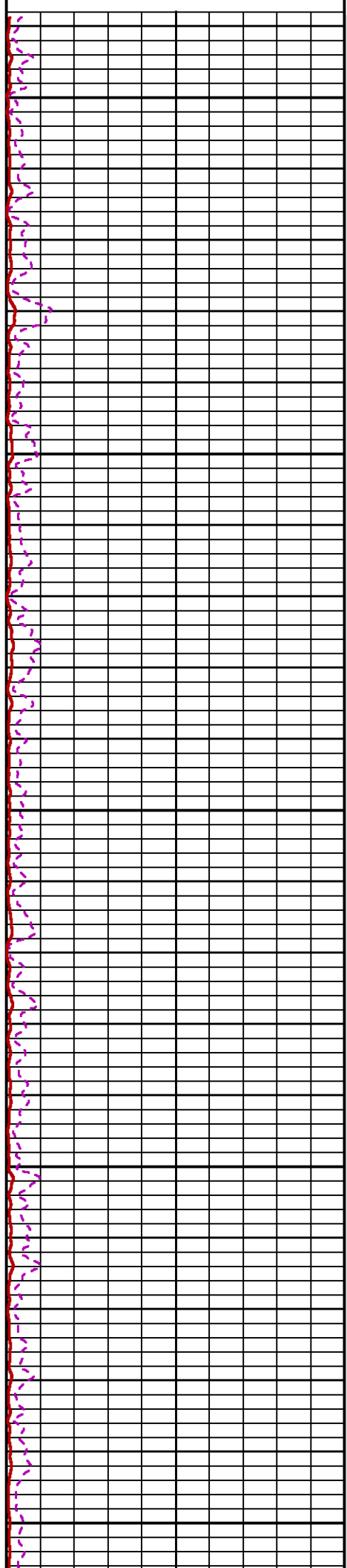
CURVE MEASURE POINT OFFSET

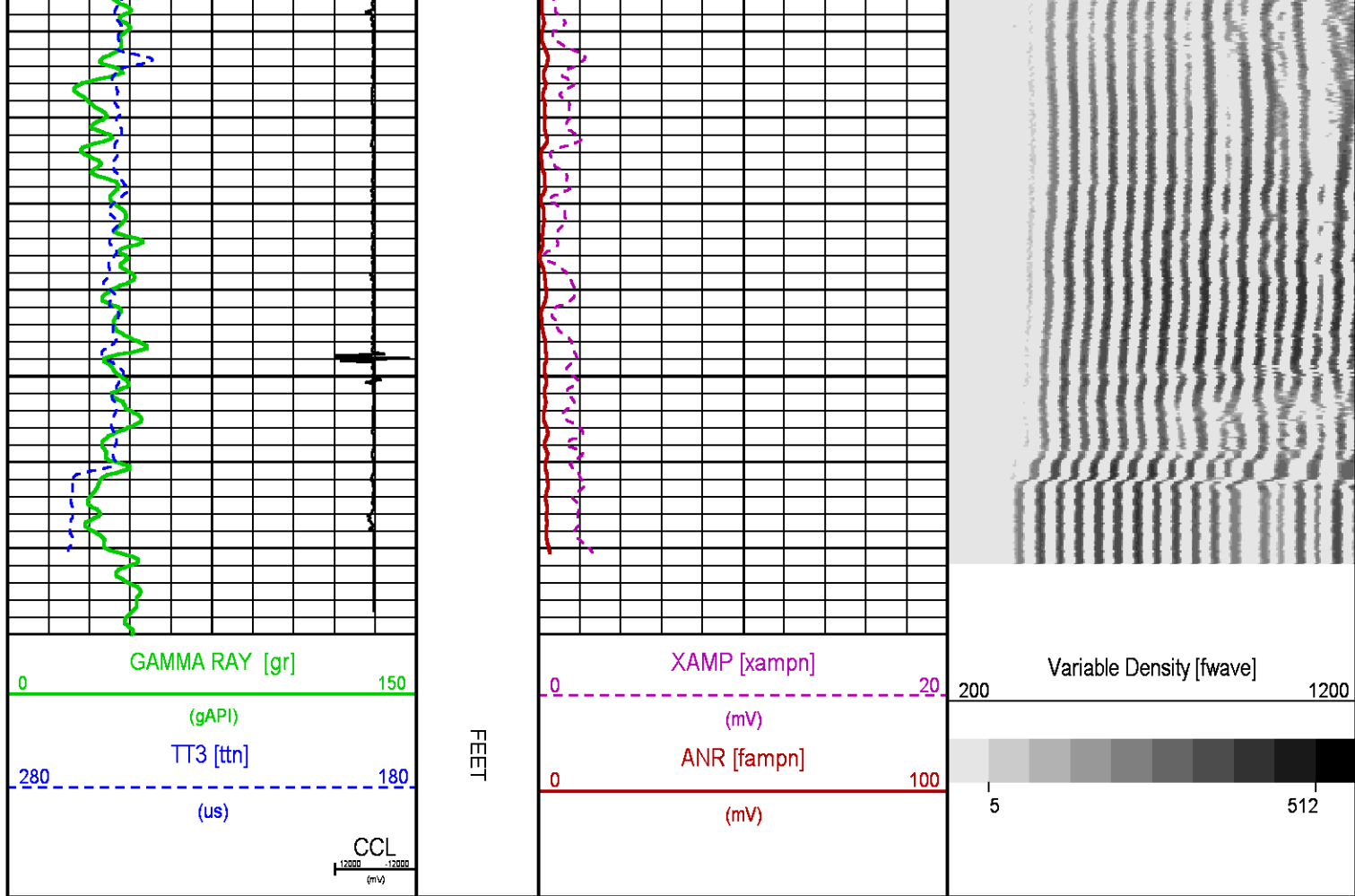
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation	: cas6685:/dat1a/CH105973/CAERUS_CBL_RPT.fvpdf [5"/100' Scale]
Plot Interval	: 8888.5 - 9181.5 Feet
Data File 1	: F1 : cas6685:/dat1a/CH105973/n012g01_RPT.xtf
Created On	: Feb 27 07:56:53 2016
Company	: CAERUS OIL & GAS
Well	: PUCKETT_24C-1
Field	: GRAND VALLEY
File Interval	: 8887.5 - 9183 Feet
OCT	: n012g









## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH105973/n012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10404539

DATE/TIME PERFORMED: Mon Feb 22 09:25:37 2016

UNIT #: 3885TC 6685

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

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	-0.24	-0.26	-0.23	-0.30	-0.27	-0.39	-0.25	-0.25	-0.24	-1.76	-0.06
AMP FLUID (mV)	105	105	105	104	104	107	106	106	106	147	103

TT (us)	217	217	217	217	216	216	215	215	218	323	218
M FACTOR	0.95	0.95	0.95	0.96	0.96	0.93	0.94	0.94	0.94	1.01	0.97

## RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10404539      DATE/TIME PERFORMED: Fri Feb 26 09:17:52 2016      DAYS SINCE CAL: 3

UNIT #: 3885TC 6685      CABLE #: 6685SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	-0.04	-0.01	-0.00	0.05	-0.04	-0.06	0.04	0.05	-0.08	-0.02	0.02
AMP AIR	0.17	0.14	0.07	-0.09	-0.99	1.86	-1.10	-0.29	0.04	-0.55	101.78

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.97	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)	CALBTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	CALBTR (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)	CALBTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	DIFF. (gAPI)
GR	74.62	307.47	0.652	48.63	200.37	151.74
						140.00    160.00

## TEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 12670181

DATE/TIME PERFORMED: Wed Aug 12 11:34:41 2015

UNIT #: 3885TC 6685

T(0)

T(1)

T(2)

T(3)

Corr Coeff for Temp

0.000000E+00

1.000000E-01

0.000000E+00

0.000000E+00

## INSTRUMENT CONFIGURATION

Source File: /dat1a/CH105973/n012g~tdg

CABLEHEAD

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

RADIAL BOND TOOL

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

RAL GR/TEMP/CCL/CHV DETECTOR

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

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

20.38'  
NEAR RCVR 11.17'  
FAR RCVR 10.21'  
CCL 5.79'  
GR 1.67'  
TEMP 0.17'



COMPANY  
WELL  
FIELD  
COUNTY

CAERUS OPERATING LLC  
PUCKETT 24C-1  
GRAND VALLEY  
GARFIELD

STATE COLORADO

FILE NO:

CH105973

API NO:

05045226130000

LOCATION:

SHL: 317' FEL 1074' FSL S2 T7S R97W  
BHL: 2051' FEL 488' FSL S1 T7S R97W  
SE/SE

SEC 1 TWP 7S RGE 97W

ELEVATIONS:

KB 8453.8 FT  
DF  
GL 8423.8 FT

DATE 27-FEB-2016

SEC 1 T7S R97W  
H&P 330  
MESA P2 797 PAD

