



FILE NO: CH105972	COMPANY CAERUS OPERATING LLC
WELL PUCKETT 24A-1	
FIELD GRAND VALLEY	
COUNTY GARFIELD	STATE COLORADO
API NO: 05045226170000	
Ver. 4.06 SEC 1 T7S R97W H&P 330 MESA P2 797 PAD	LOCATION: SHL: 308' FEL 1088' FSL SEC2 T7S R97W BHL:1909' FEL 1042' FSL SEC1 T7S R97W SEC 1 T7S R97W 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		28-FEB-2016	
RUN	TRIP	1	1
SERVICE ORDER		CH105972	
DEPTH DRILLER		9175 FT	
DEPTH LOGGER		9113 FT	
BOTTOM LOGGED INTERVAL		9103 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	9175 FT

REMARKS

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

BHT = 228 DEGF

SJ = 6694'-6702'

COLLAR APPEARS TO BE MISSING AT 7439', THIS IS ONLY DUE TO A CHANGE IN SPEED

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426XA	10404539	CENTRALIZED
1	1	GR / CCL	1355XA	12670181	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 Feb 28 09:50:35 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105972/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2485.750 ft BOTTOM DEPTH: 9124.000 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*)	175	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

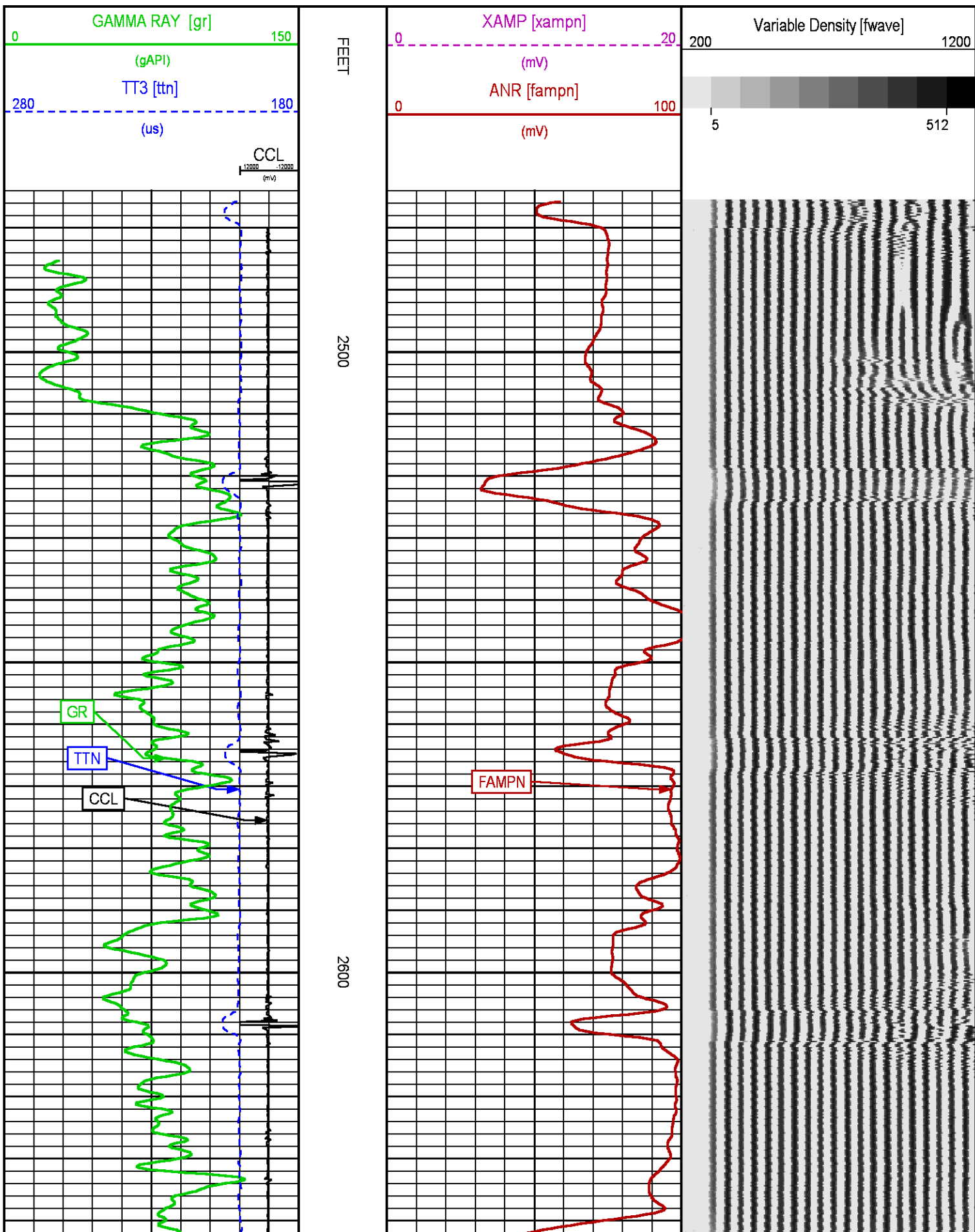
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 28 07:59:17 2016	CASING COLLAR LOCATOR
F1:FAMPN	Feb 28 07:59:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 28 07:59:17 2016	FAR WAVE FORM
F1:GR	Feb 28 07:59:17 2016	GAMMA RAY
F1:TTN	Feb 28 07:59:17 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 28 07:59:17 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

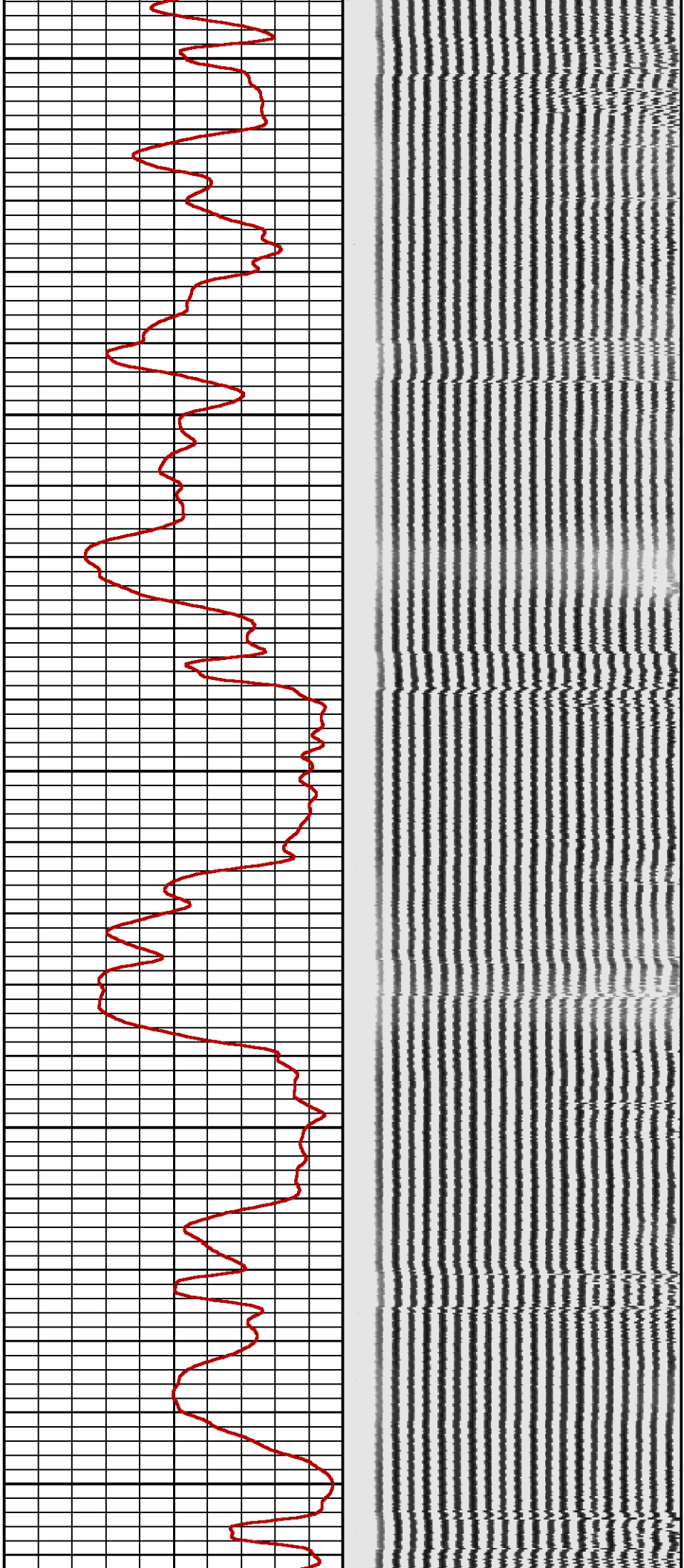
CURVE MEASURE POINT OFFSET

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/CH105972/CAERUS_CBL.fvpdf [5"/100' Scale]
 Plot Interval : 2475.5 - 9122.5 Feet

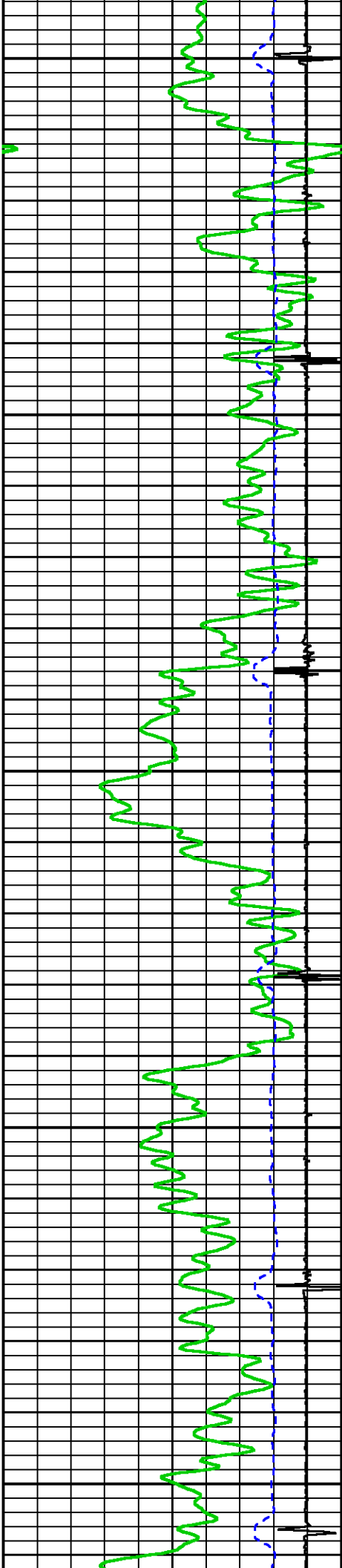
Data File 1 : F1 : cas66857/dat1a/CH105972/n012g02_MAIN.xtf
Created On : Feb 28 07:59:17 2016
Company : CAERUS OPERATING LLC
Well : PUCKETT 24A-1
Field : GRAND VALLEY
File Interval : 2474.5 - 9124 Feet
OCT : n012g

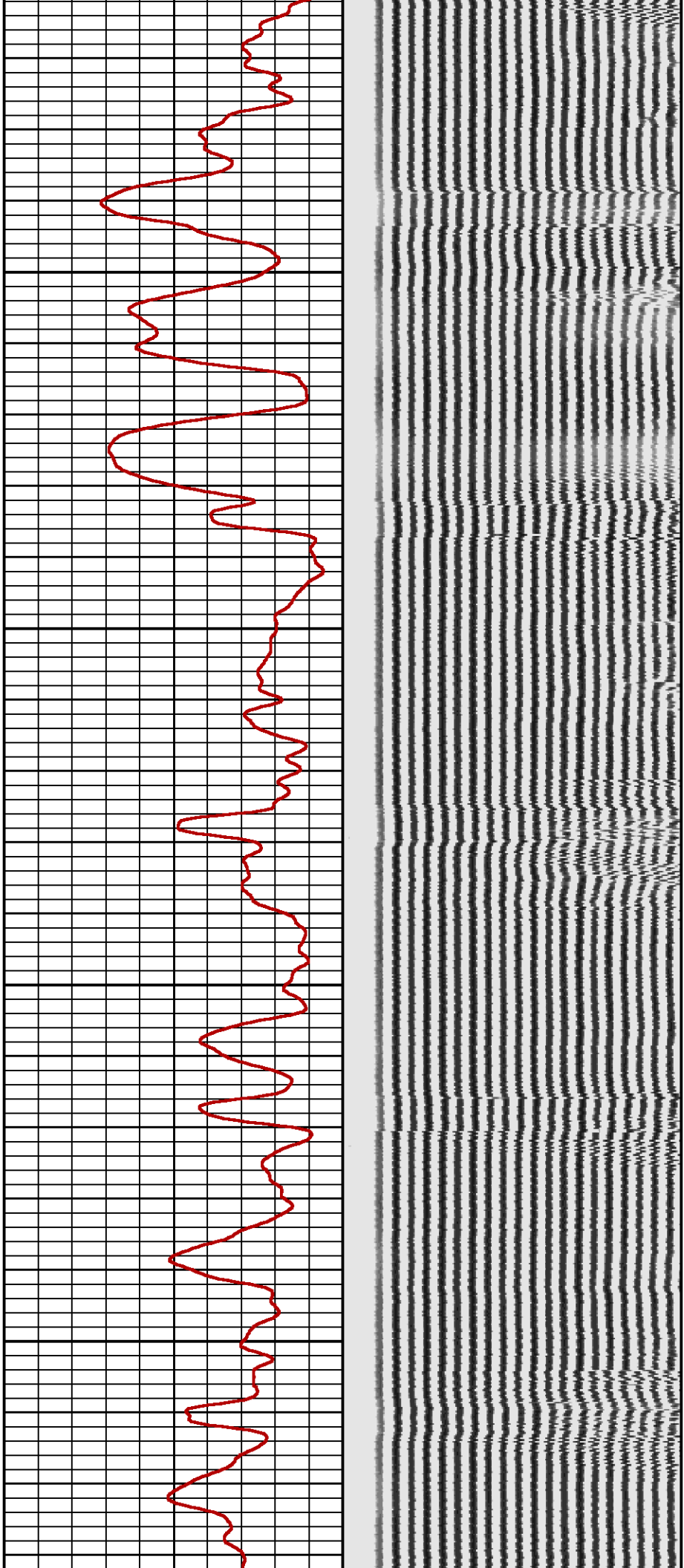




2700

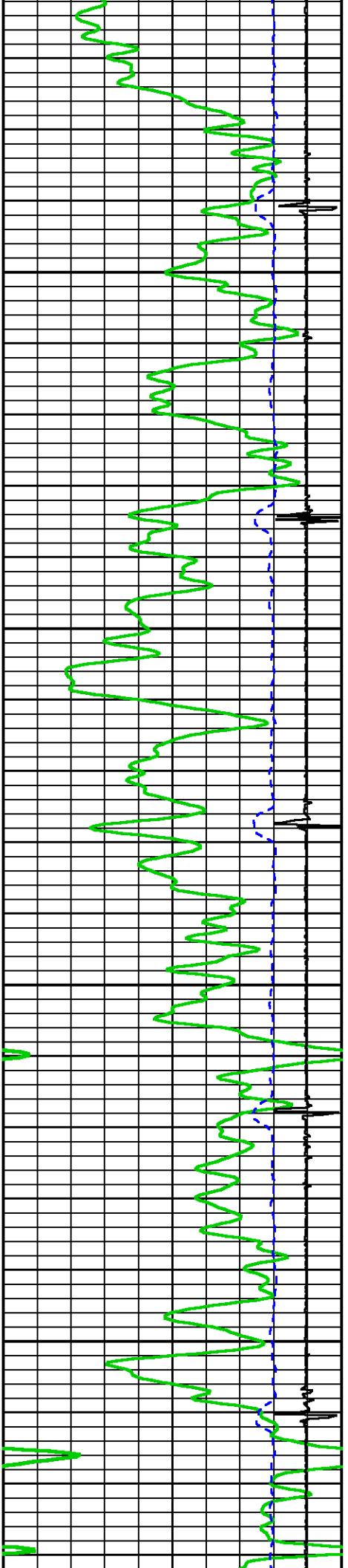
2800

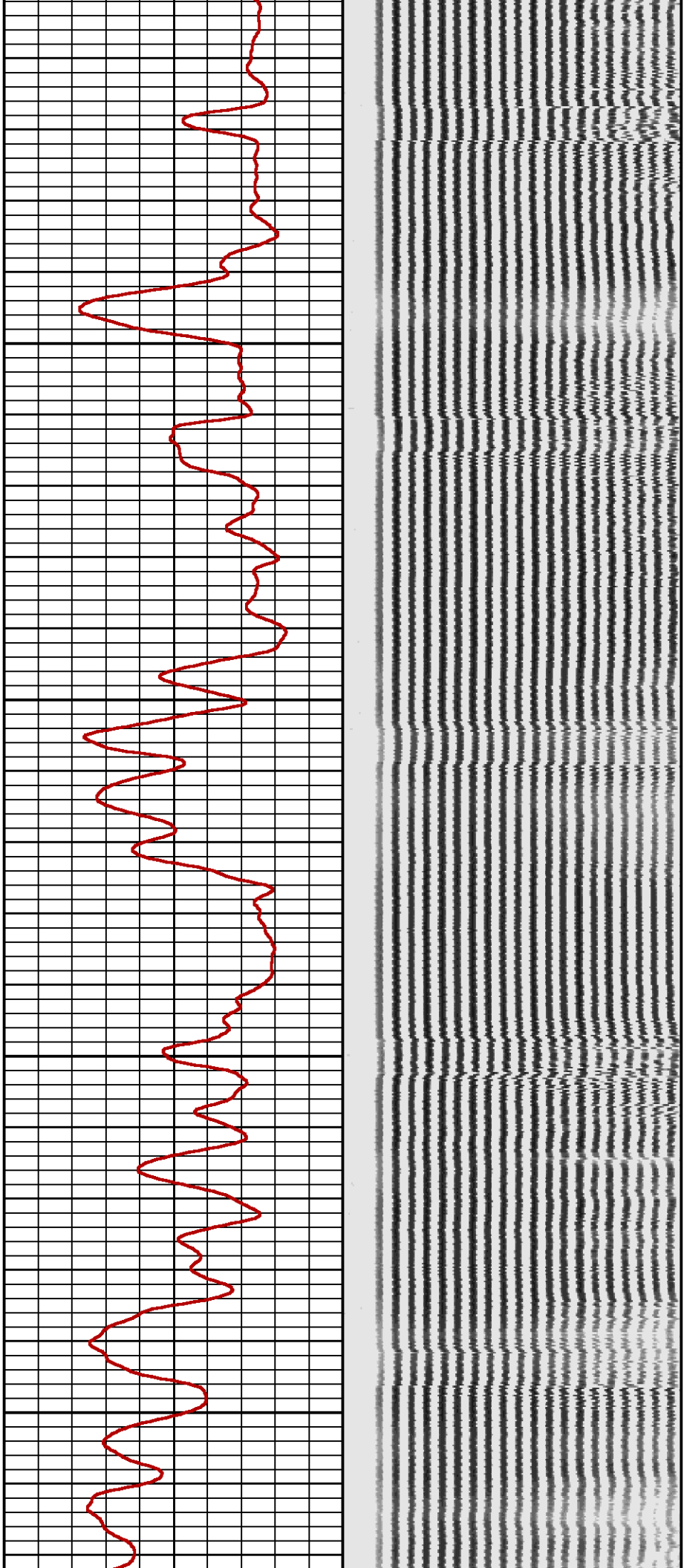




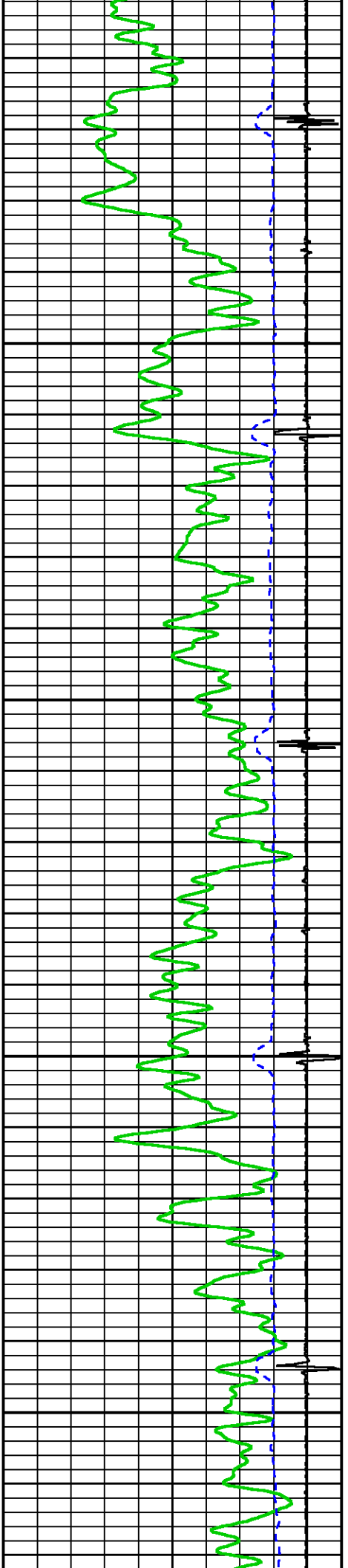
2900

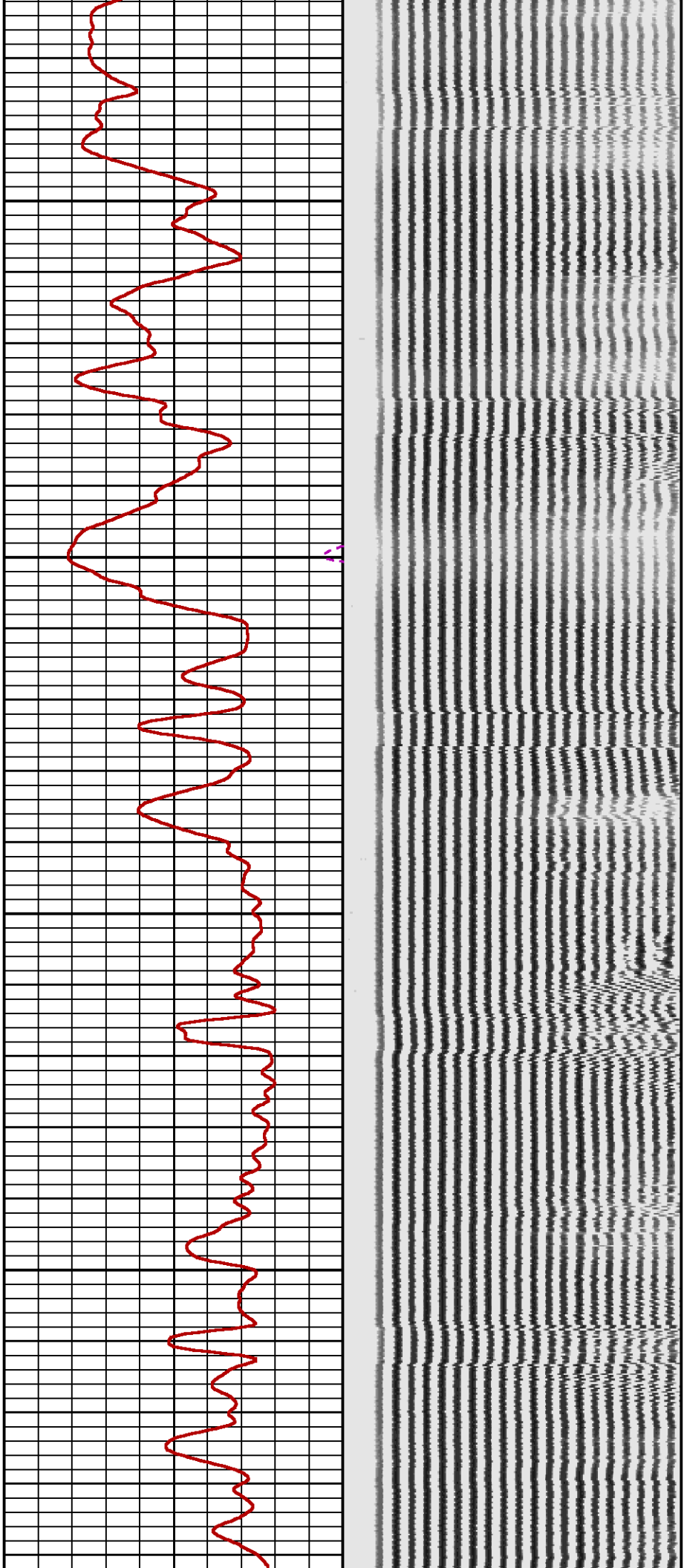
3000





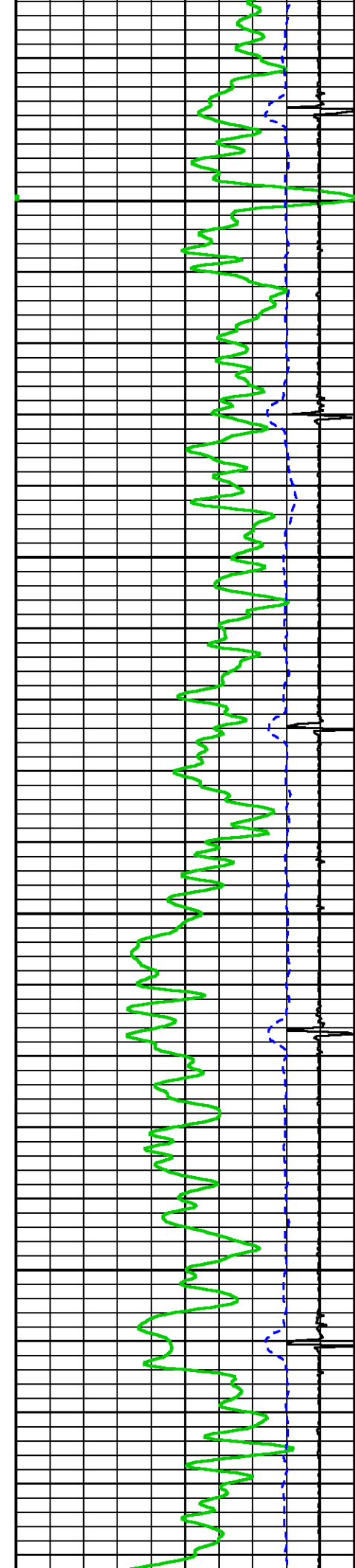
3400 3500

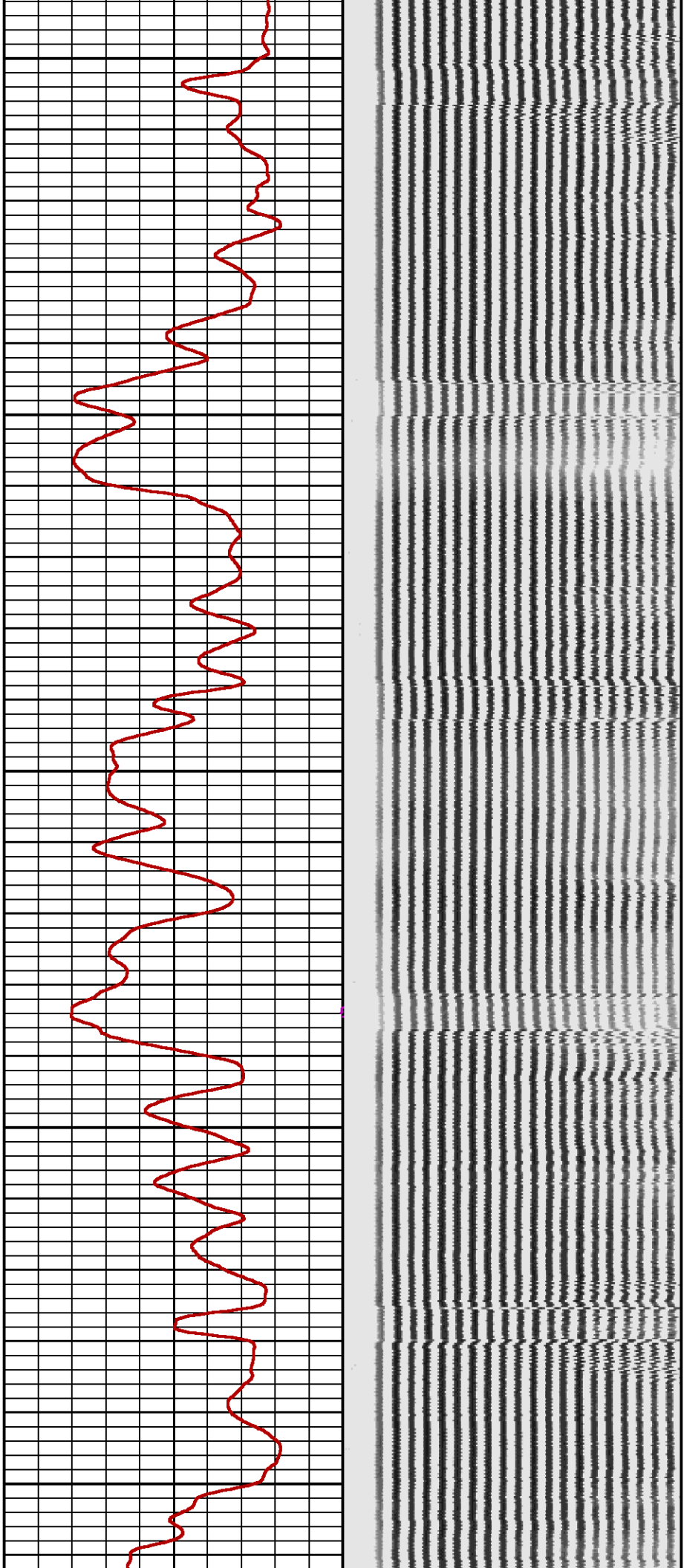




3600

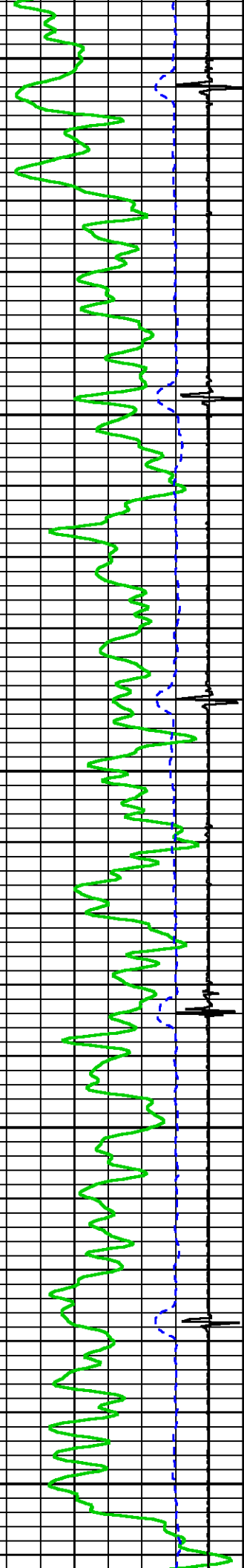
3700

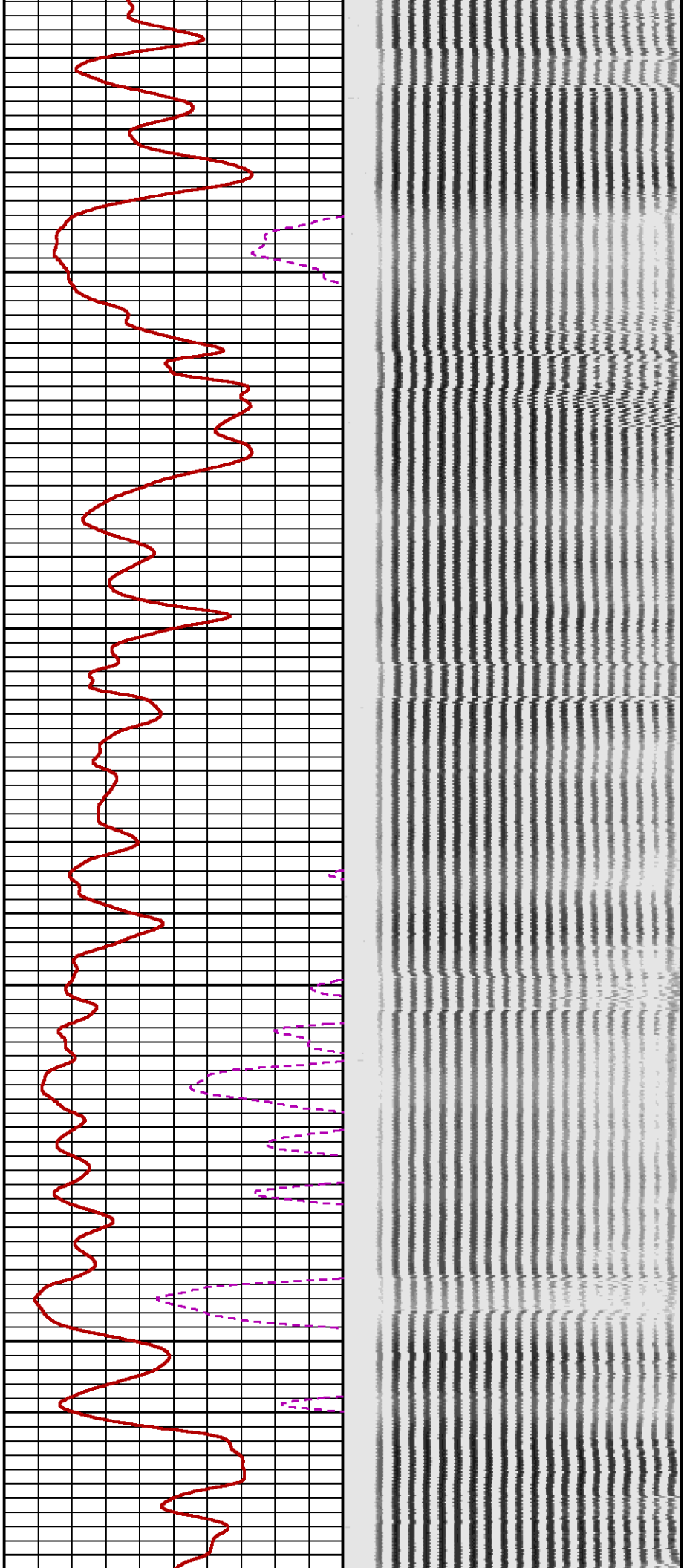




3800

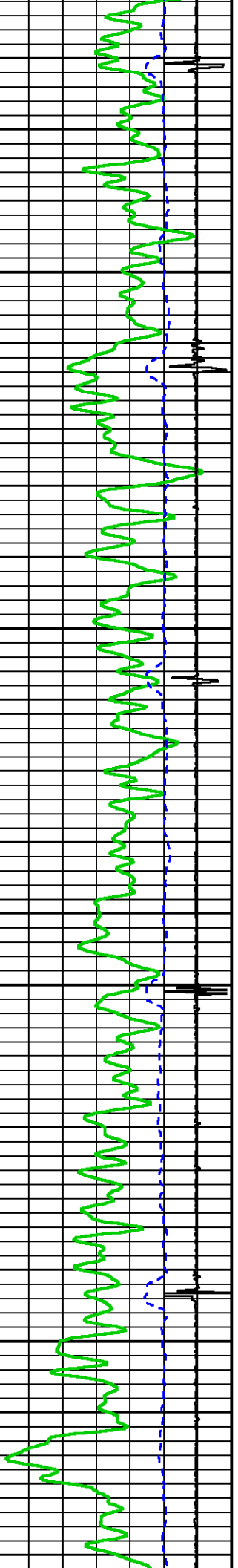
3900

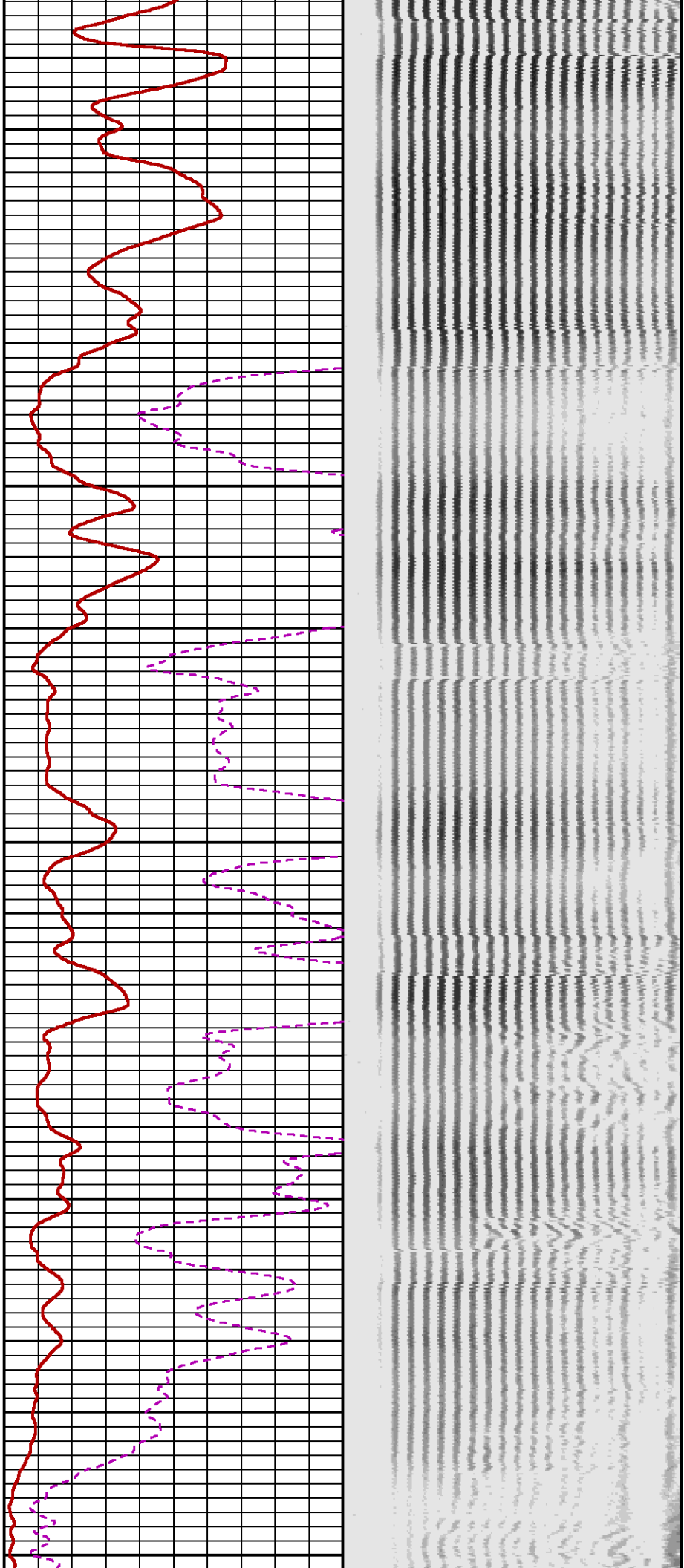




4000

4100

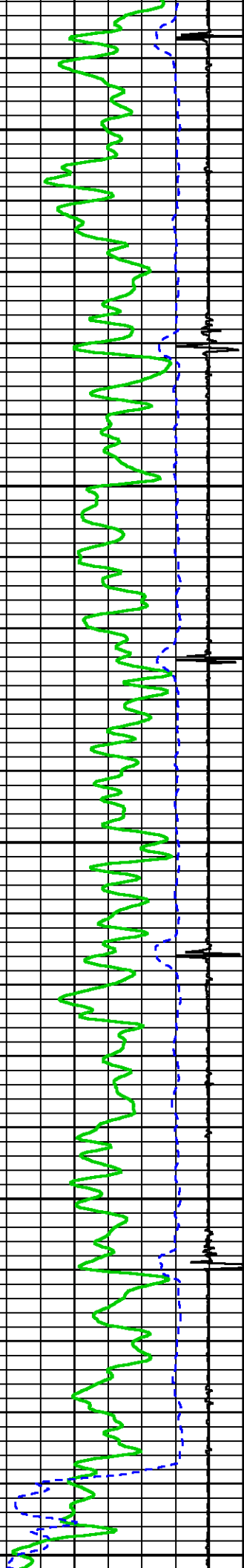


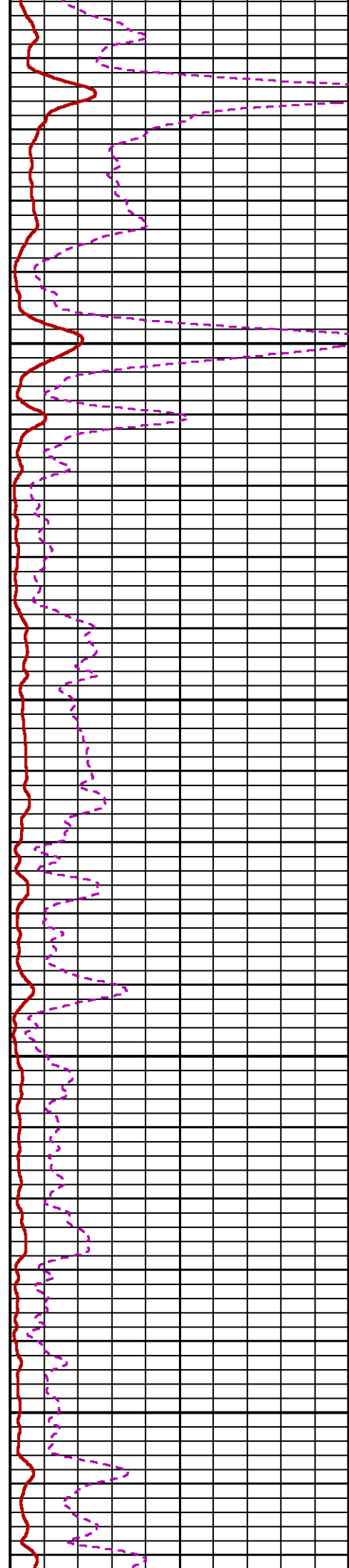
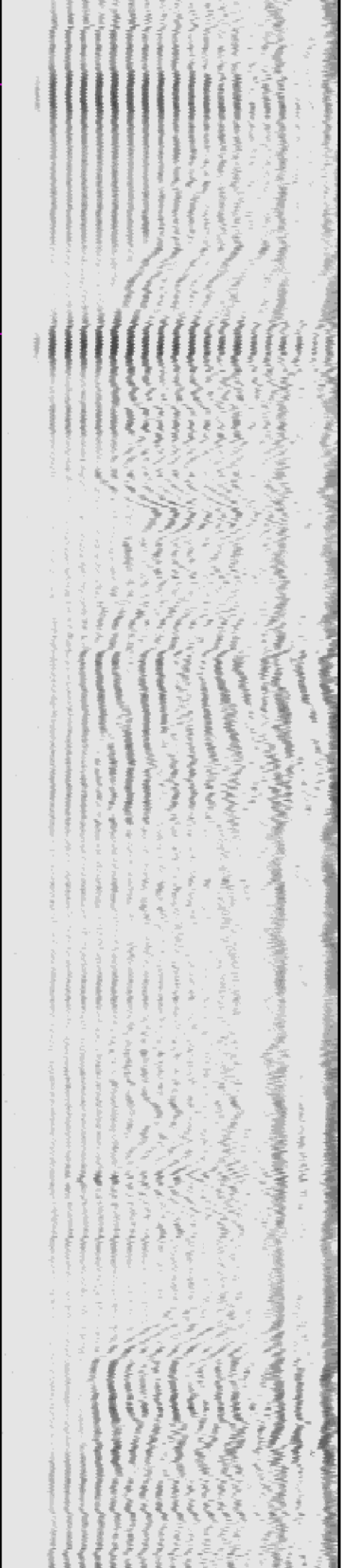


4200

4300

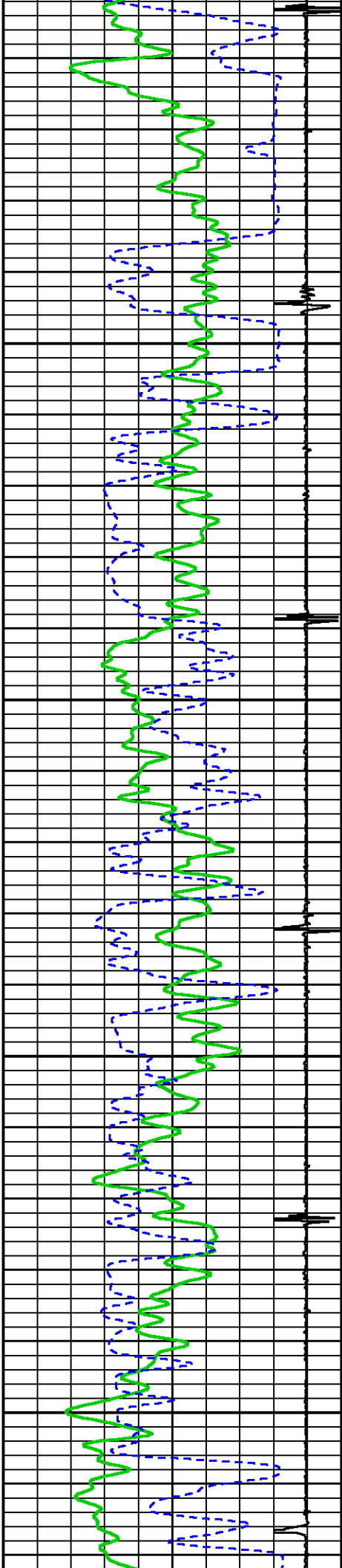
4400

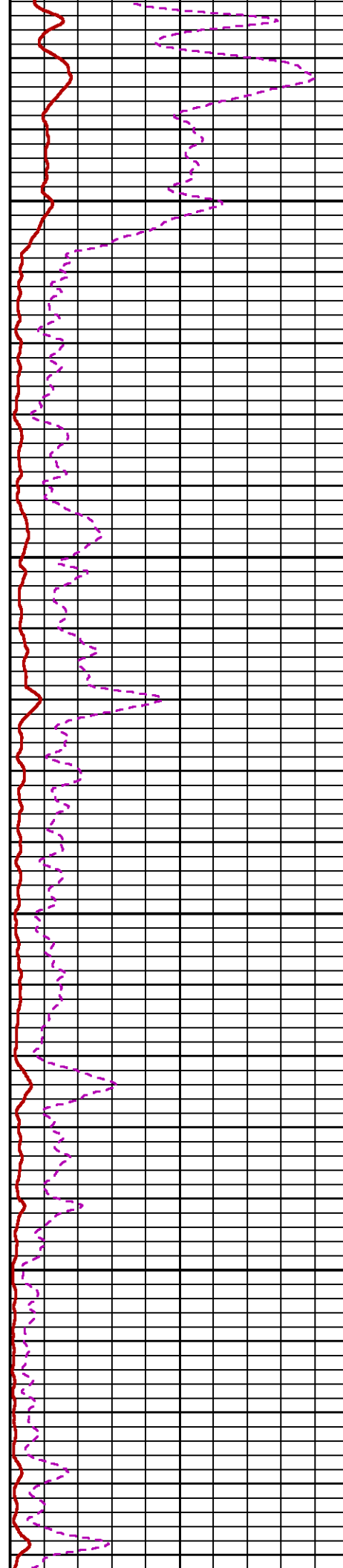
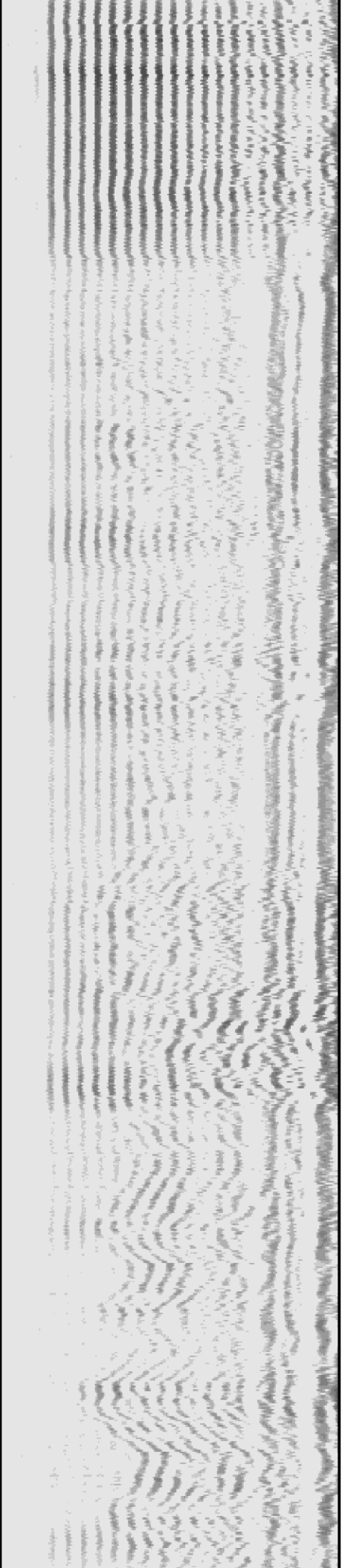




4500

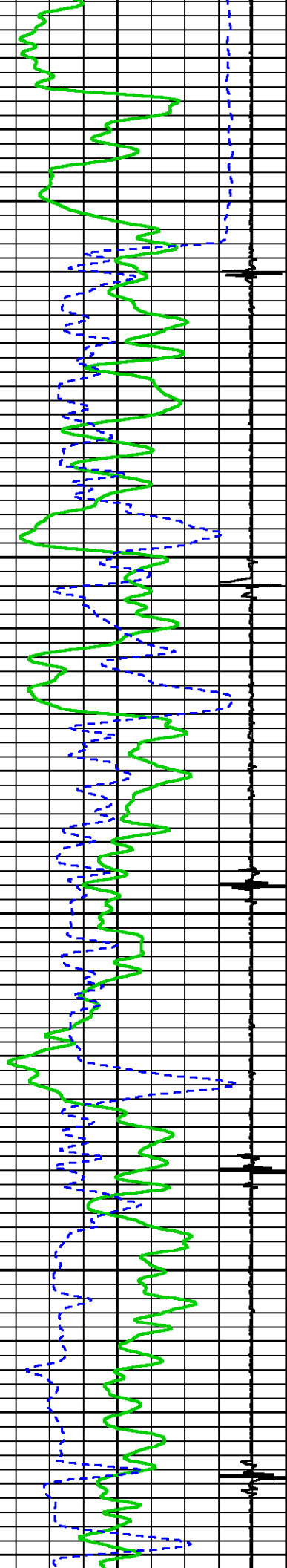
4600

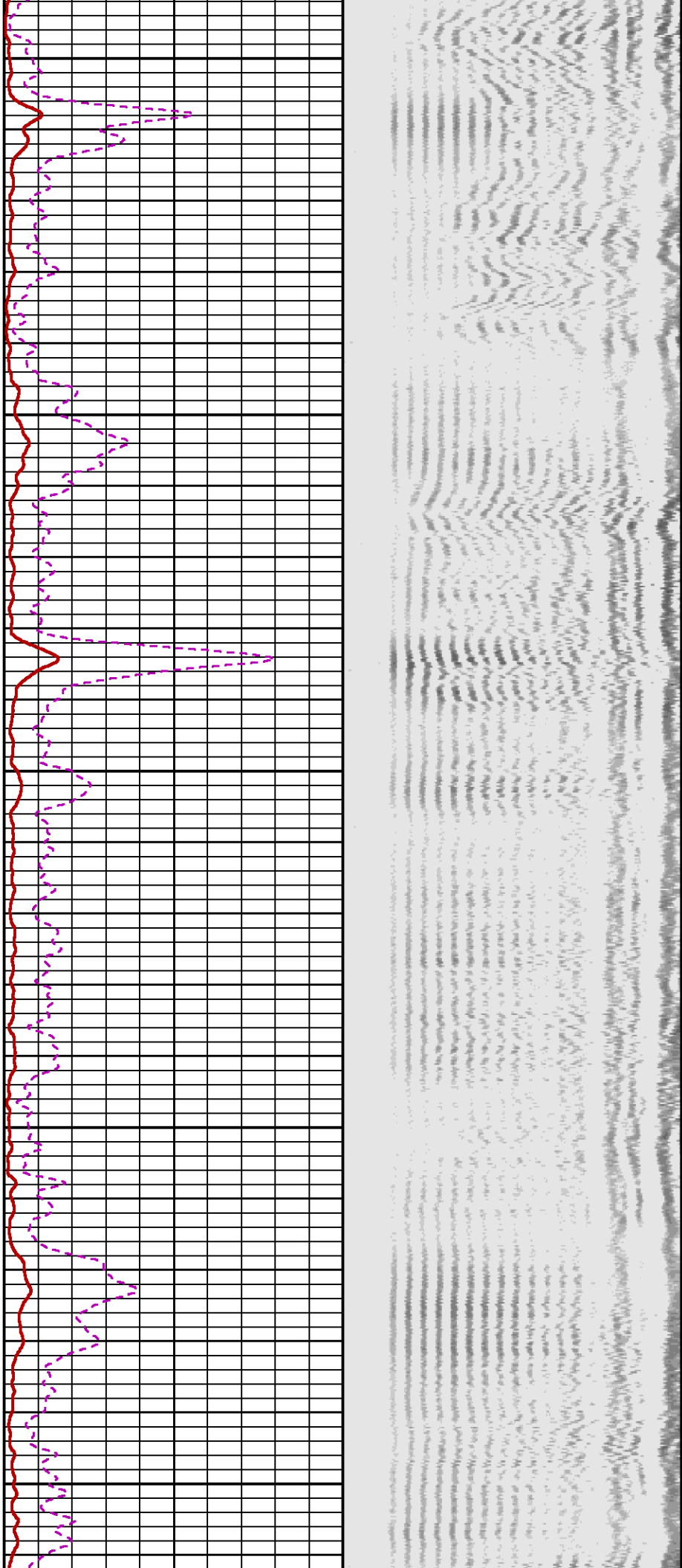




4700

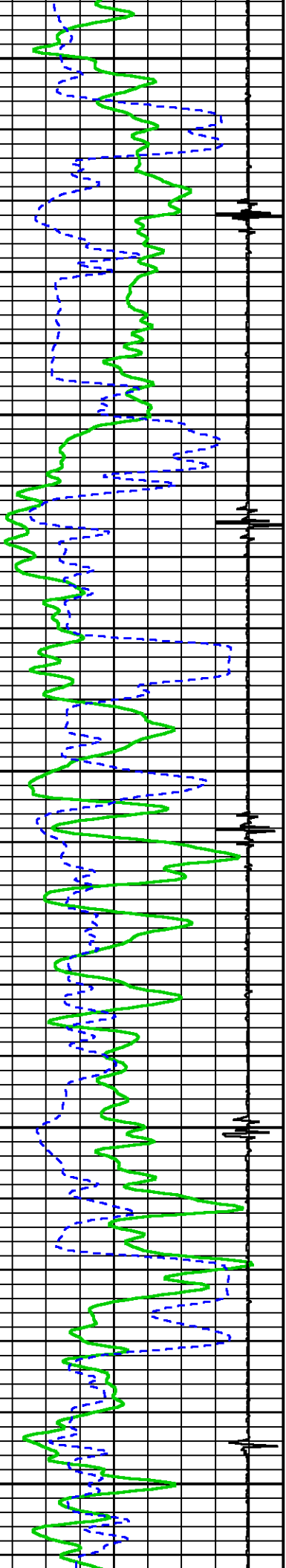
4800

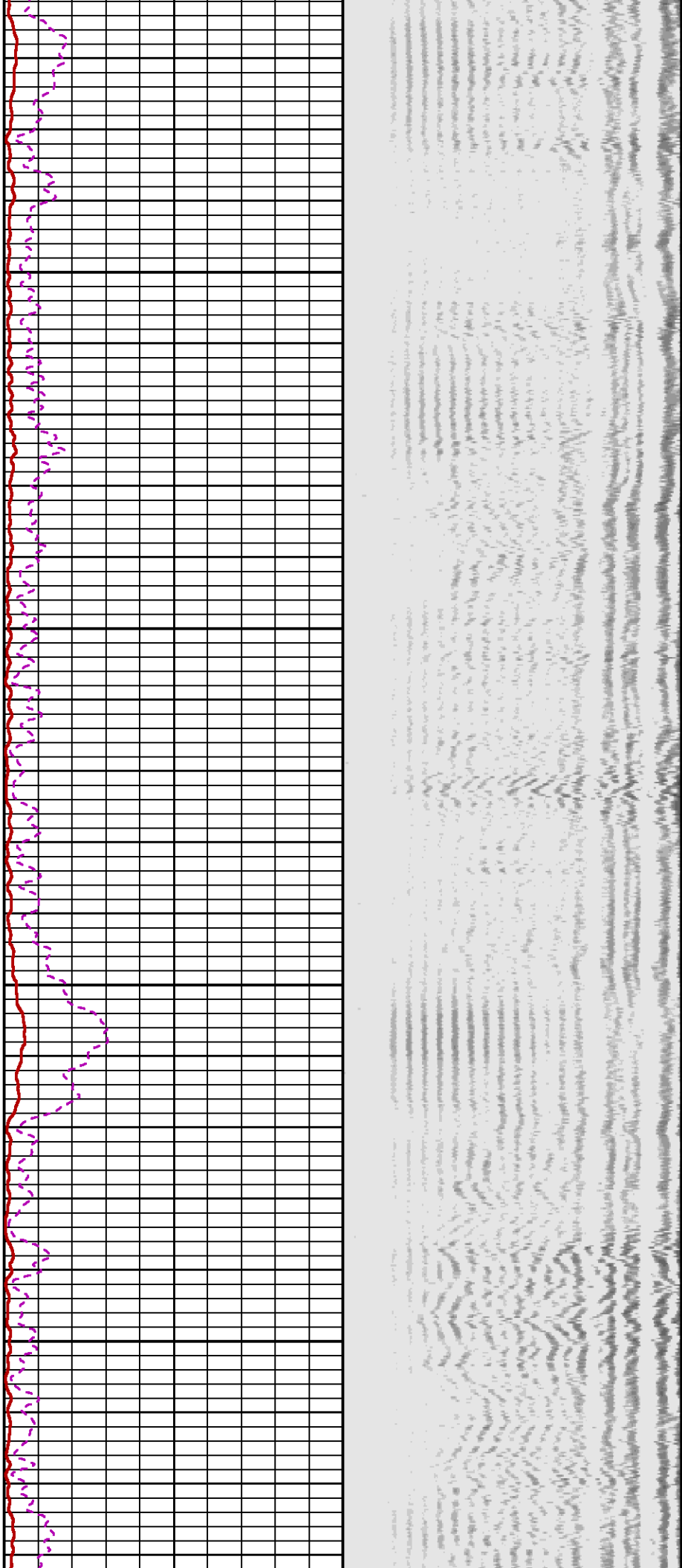




4900

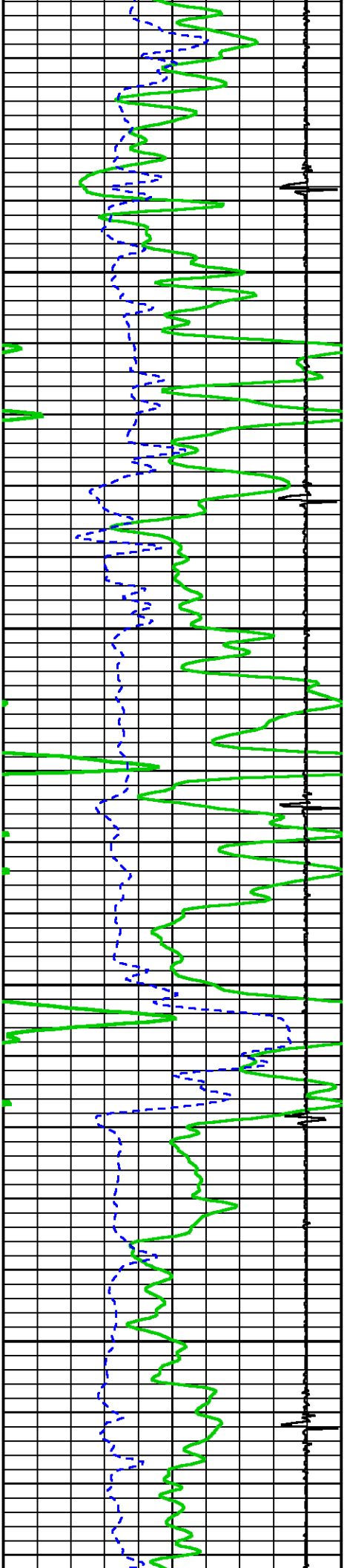
5000

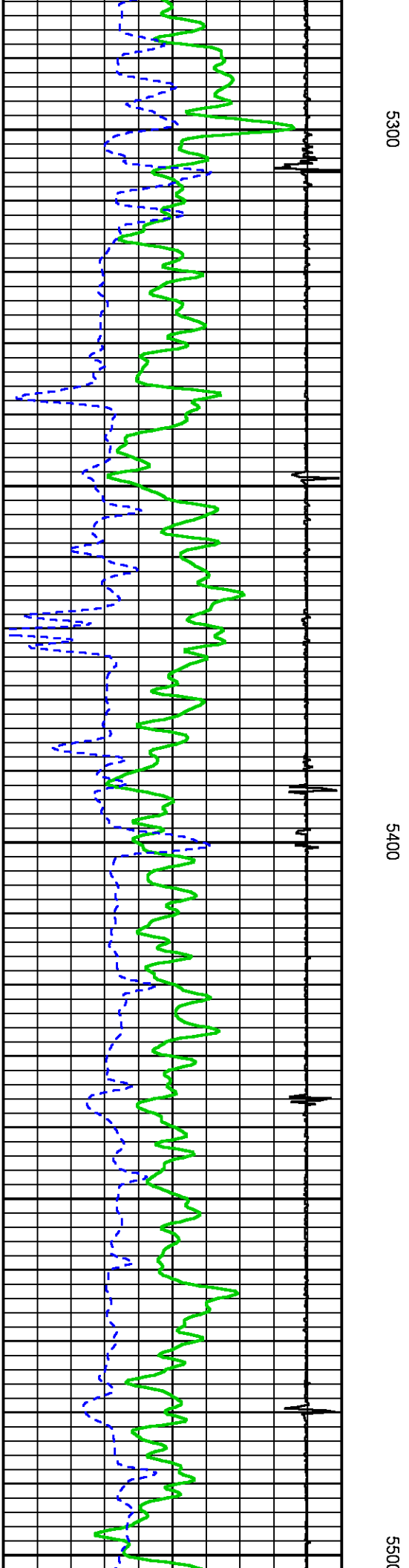
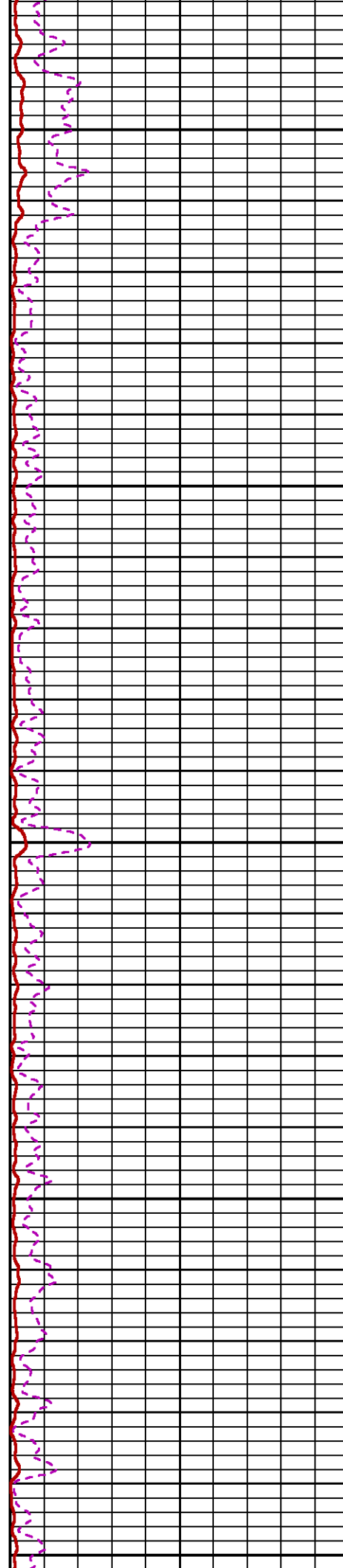
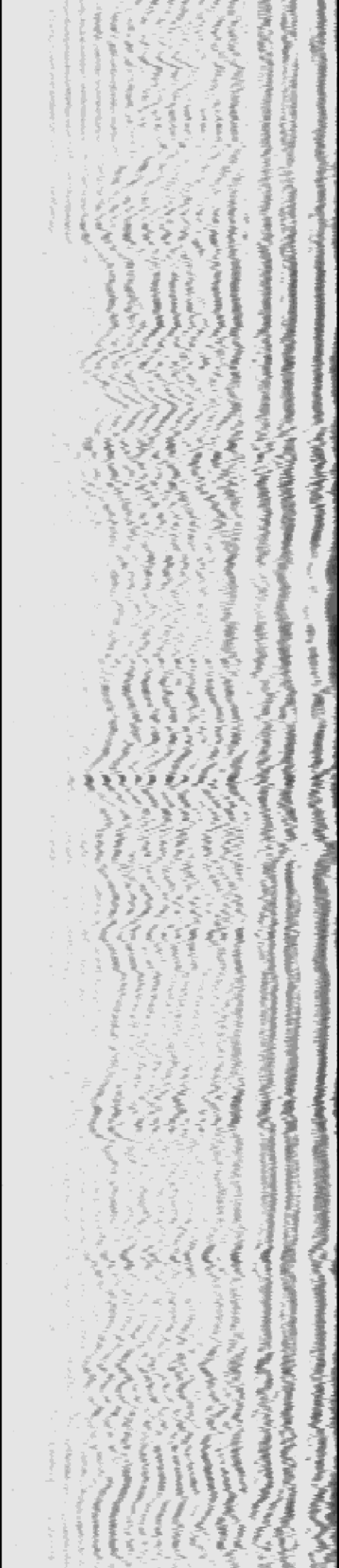


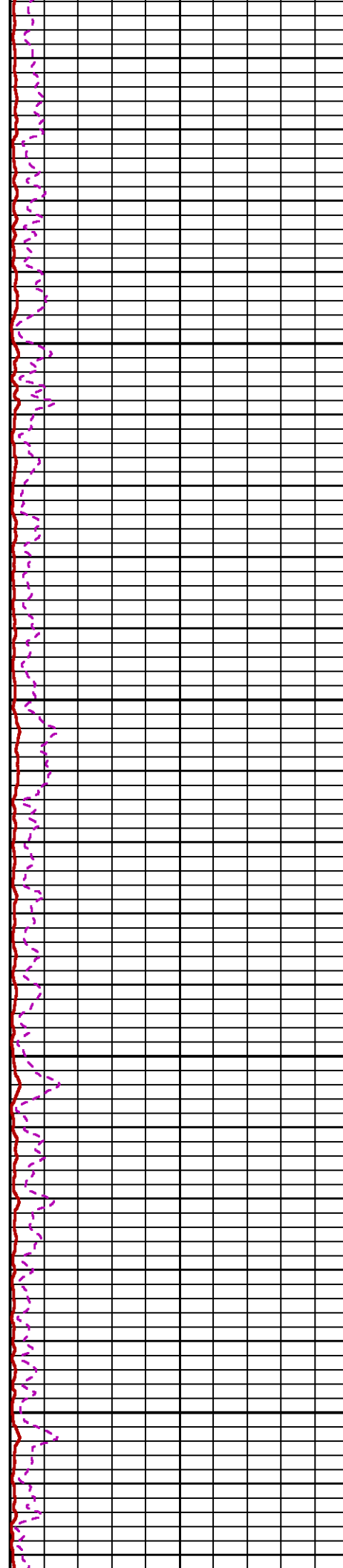
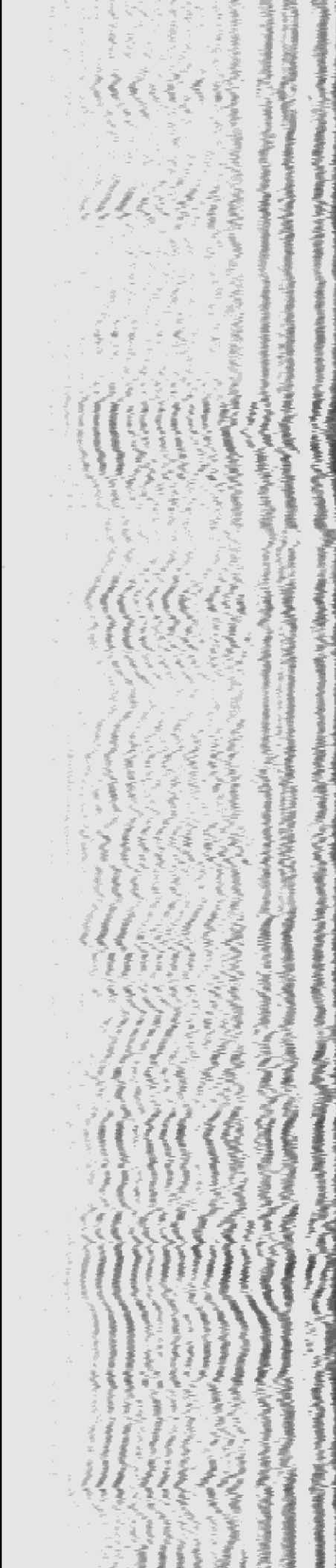


5100

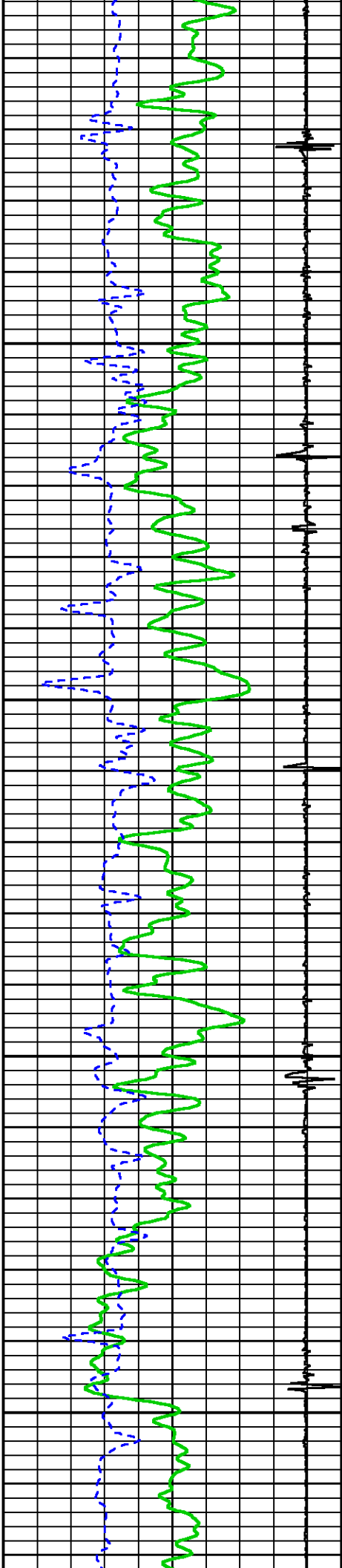
5200

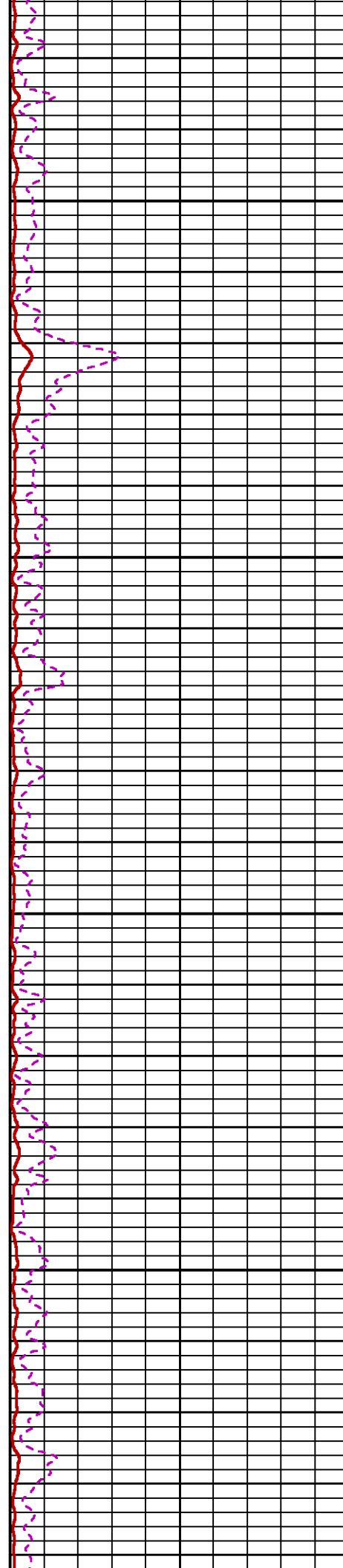
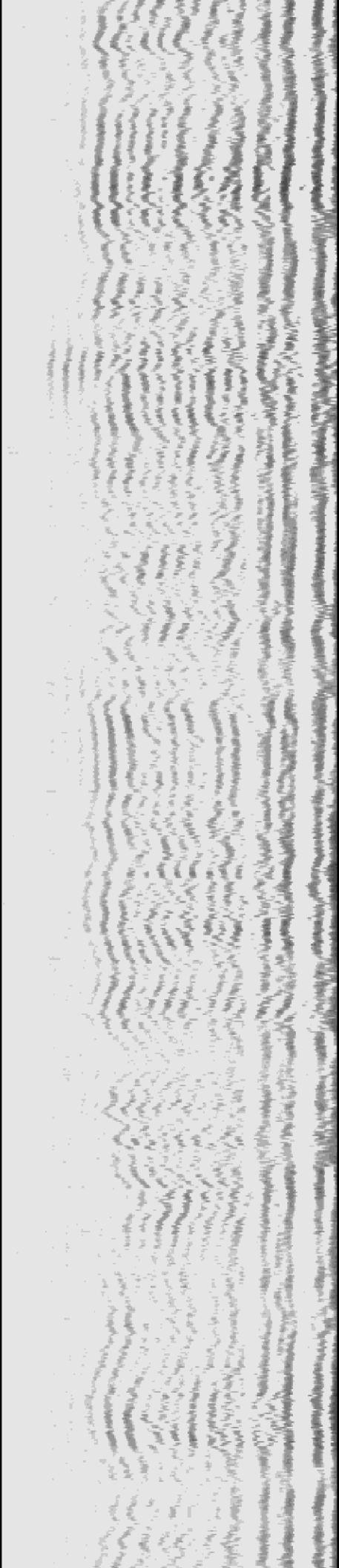






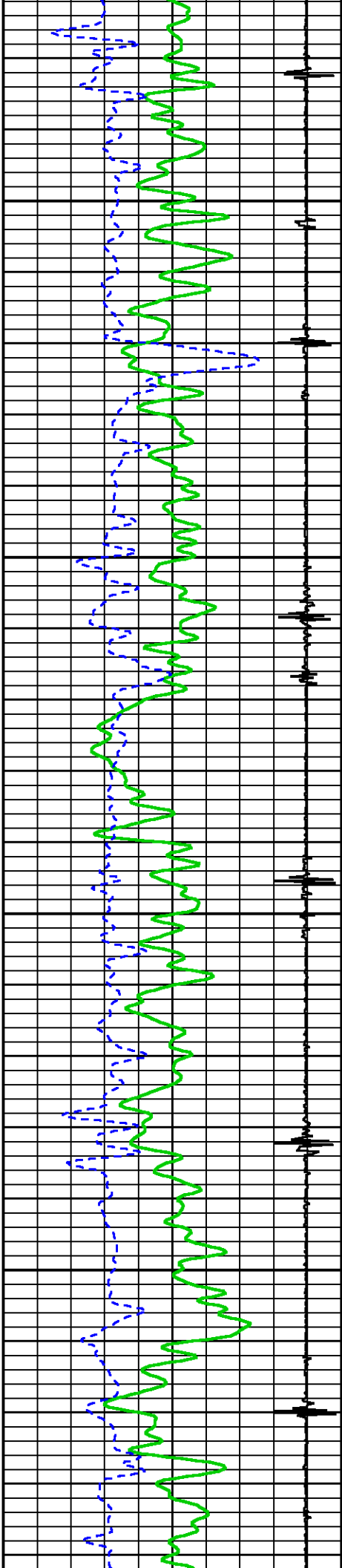
5600 5700

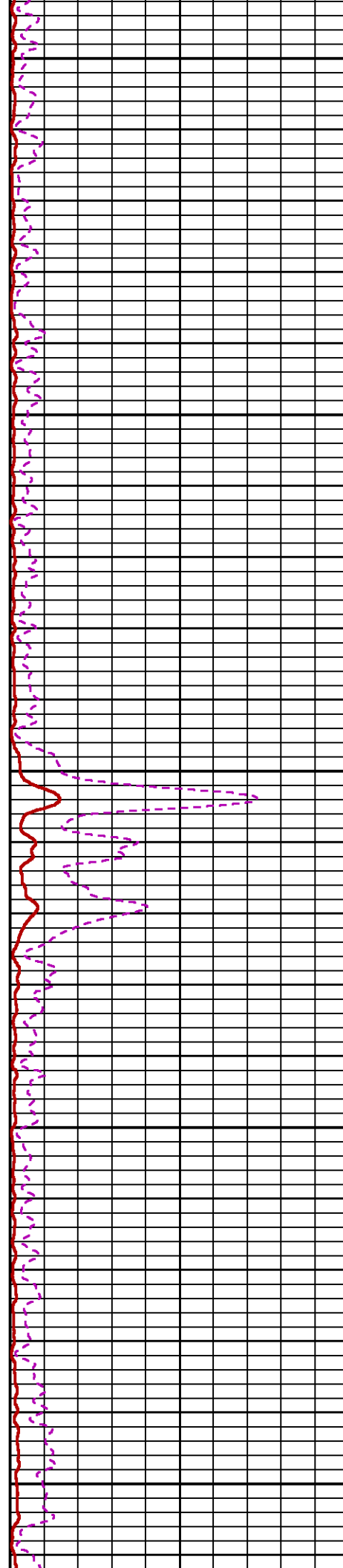
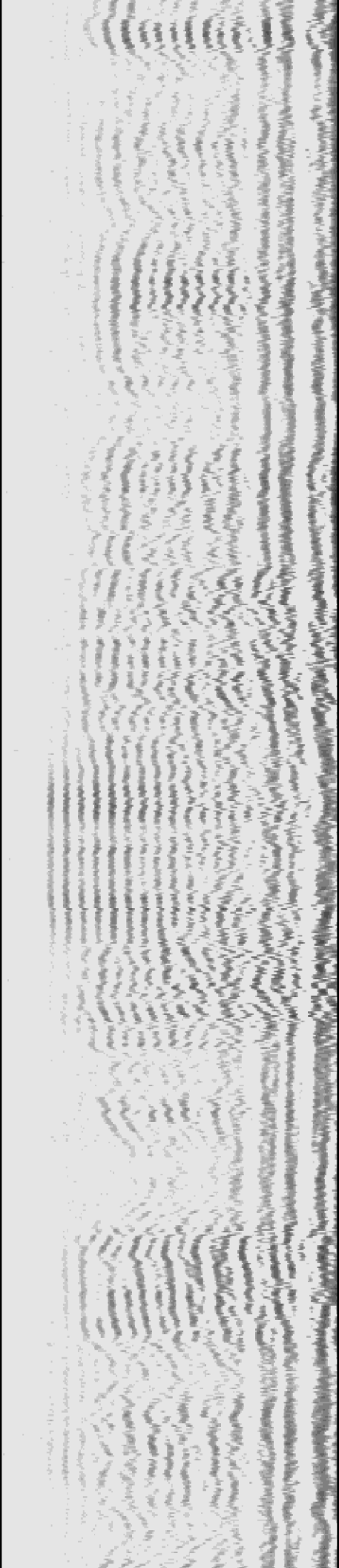




5800

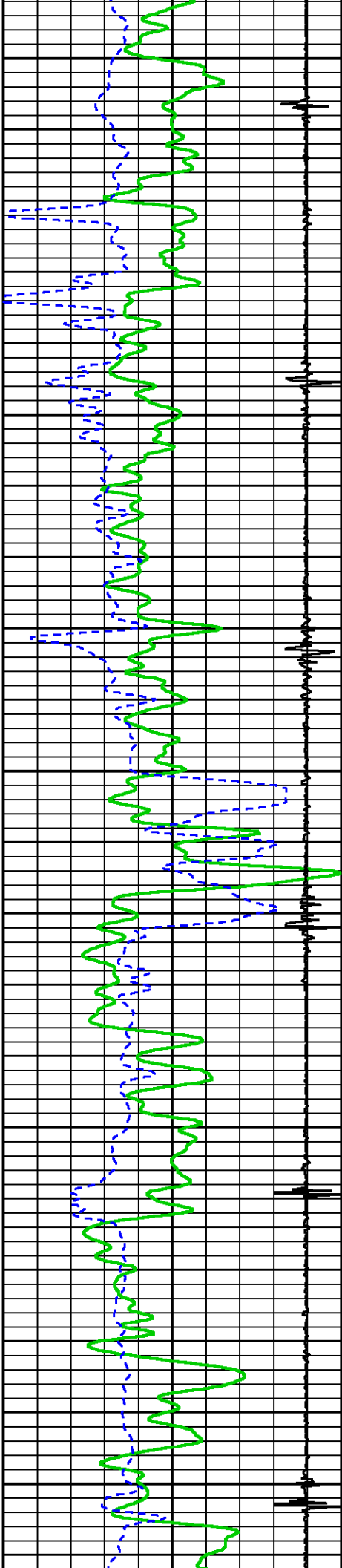
5900

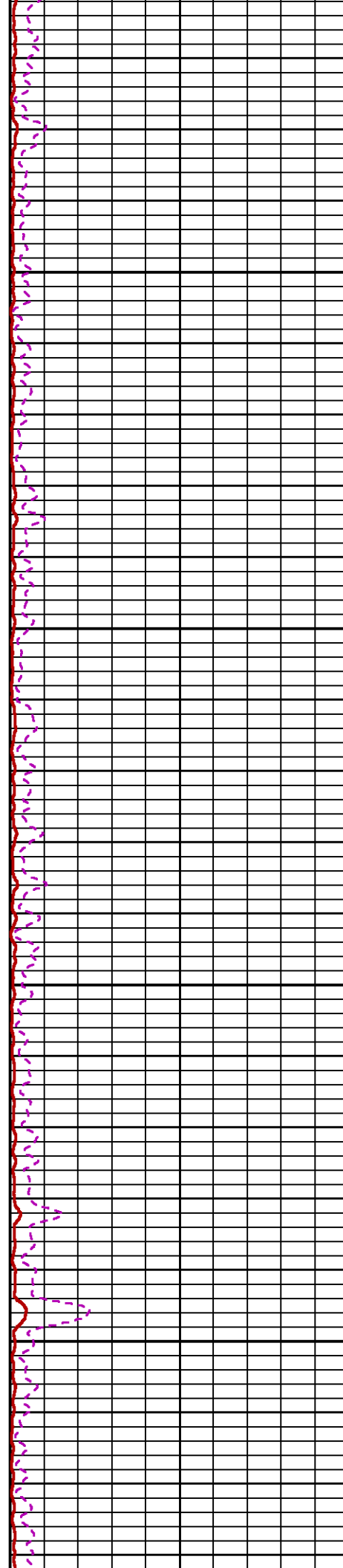
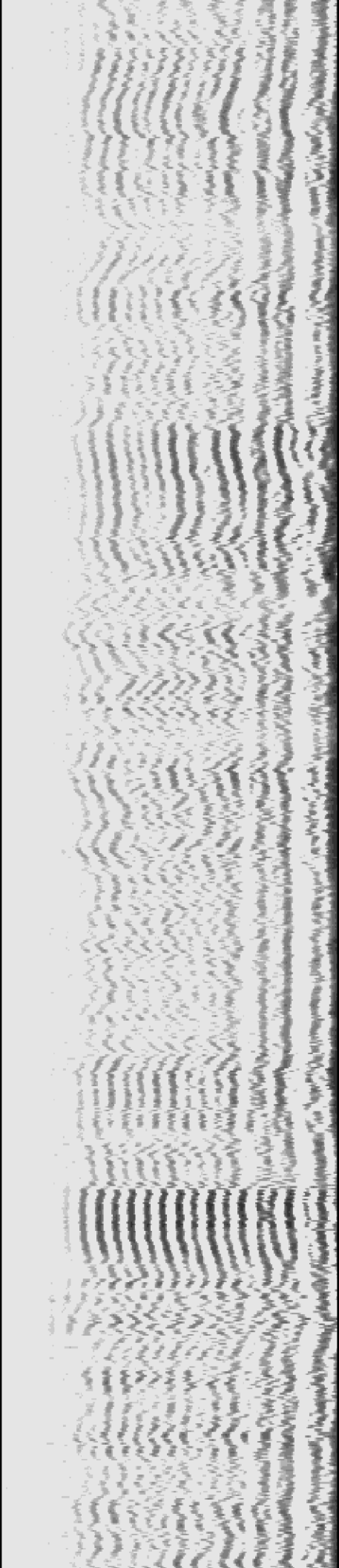




6000

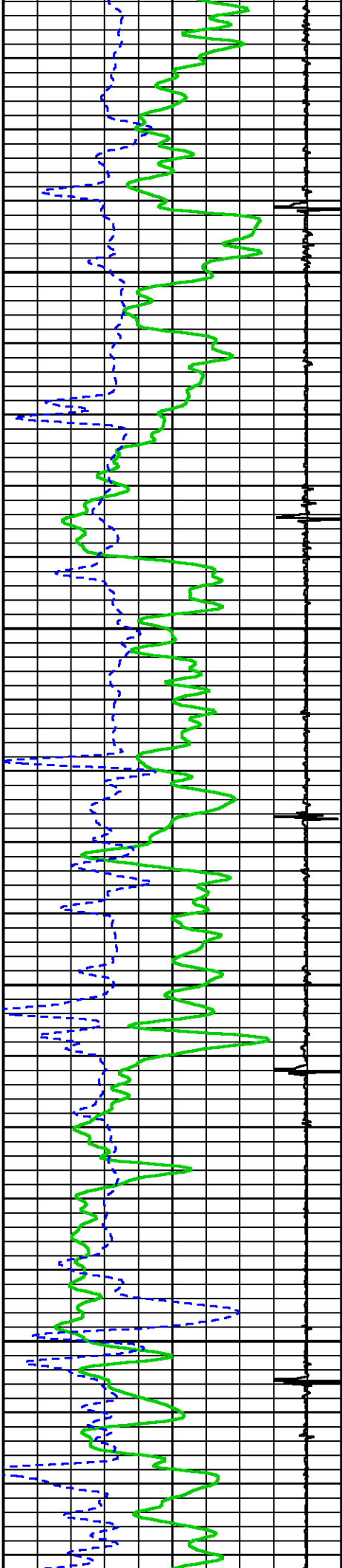
6100

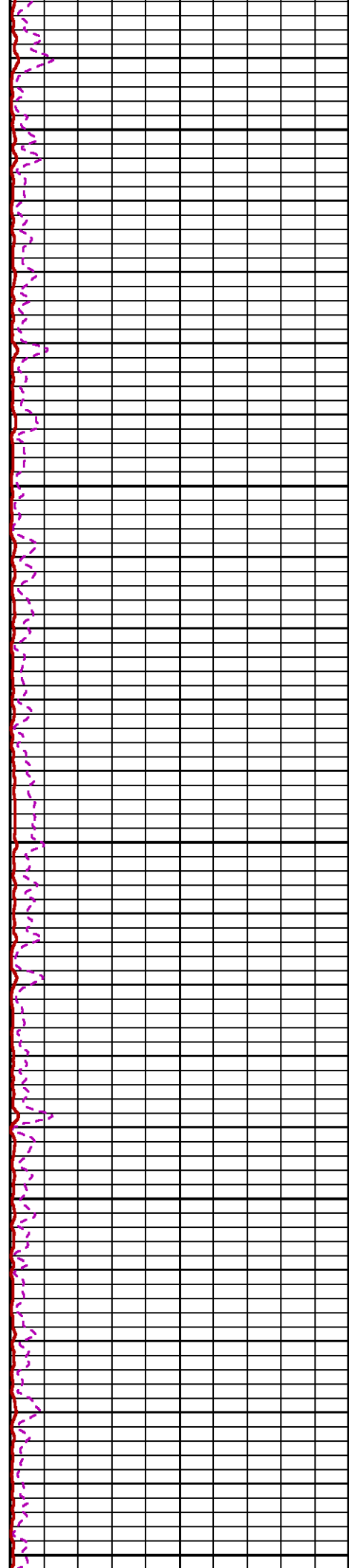




6200

6300

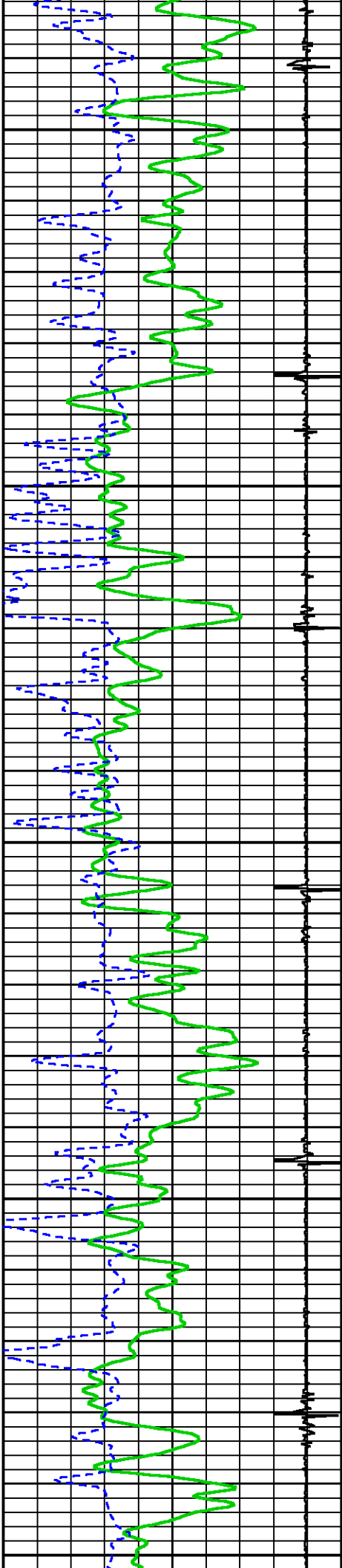


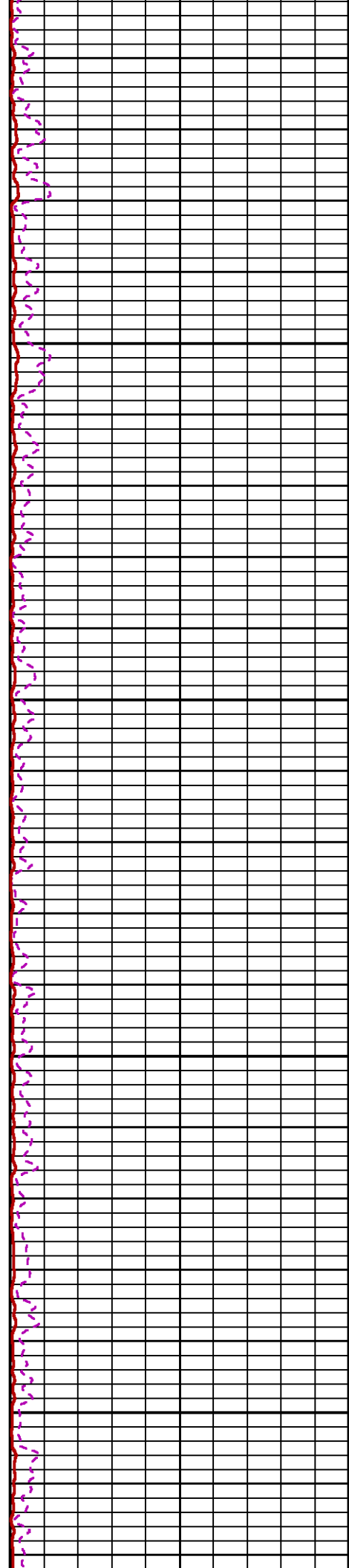


6400

6500

6600

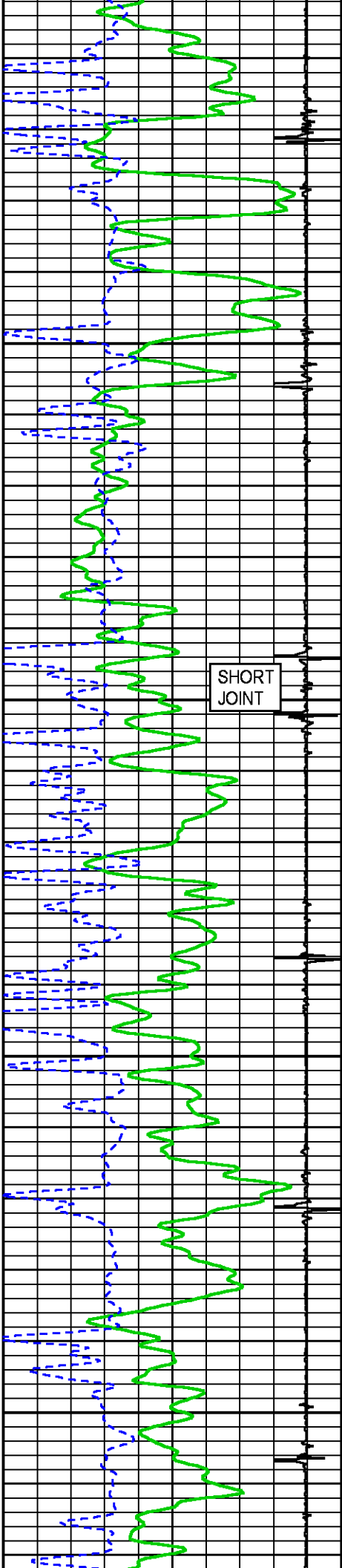


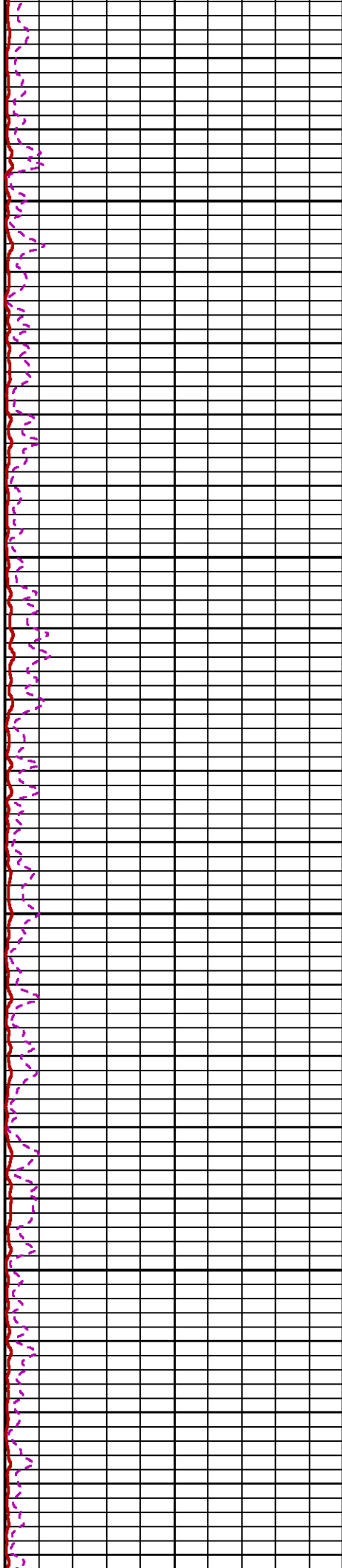
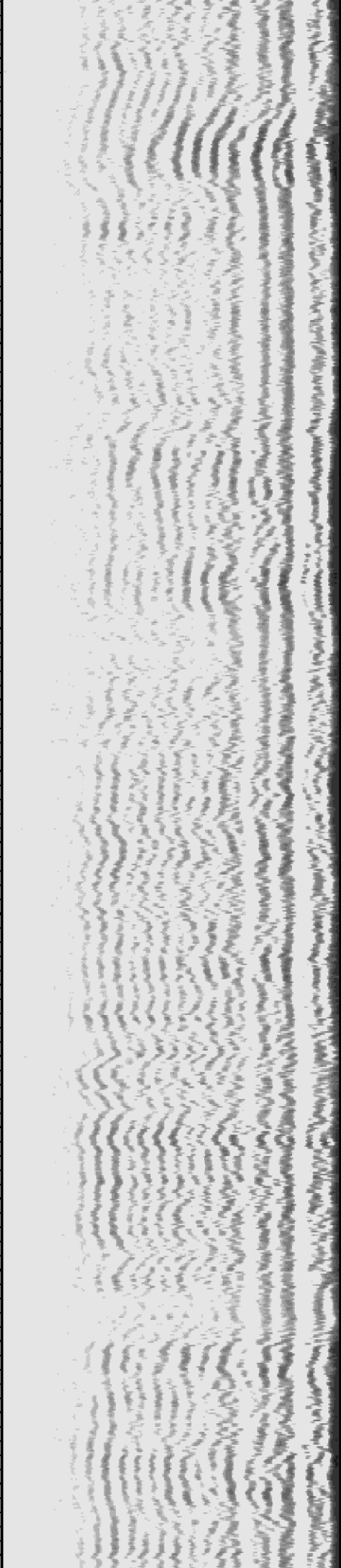


6700

6800

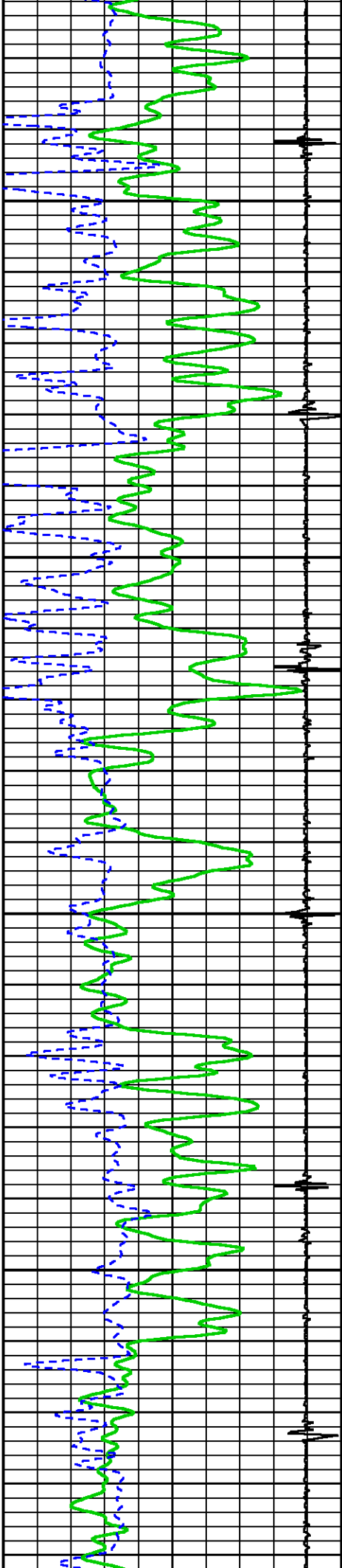
SHORT
JOINT

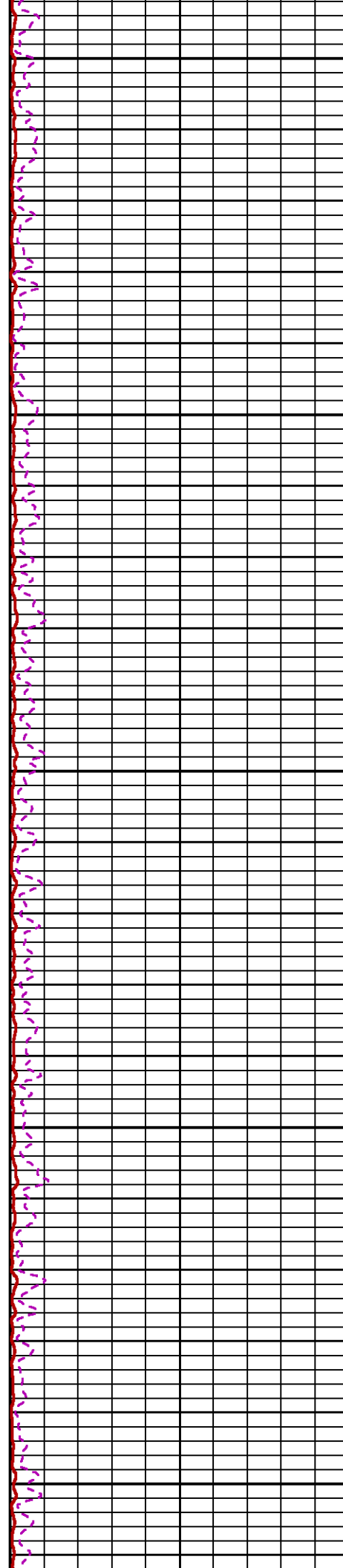
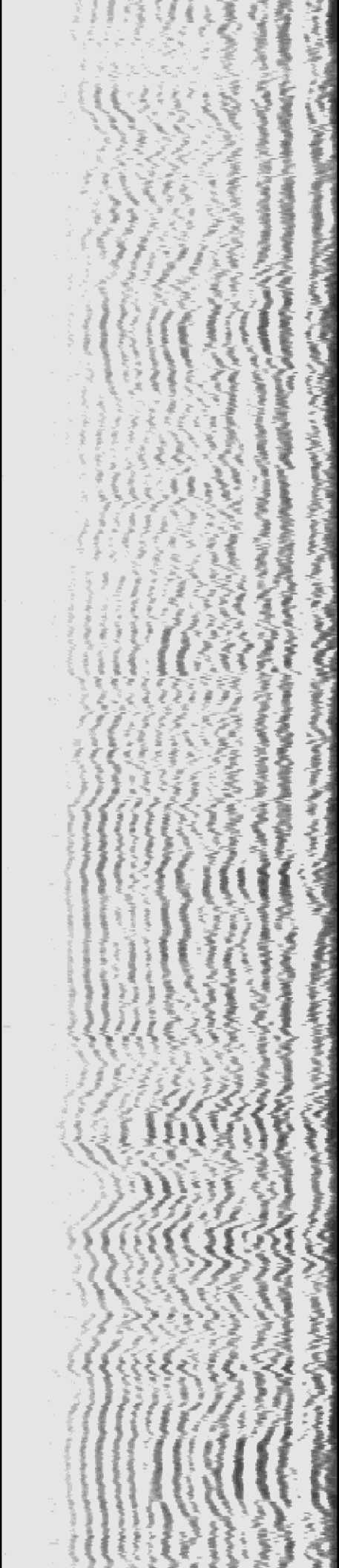




6900

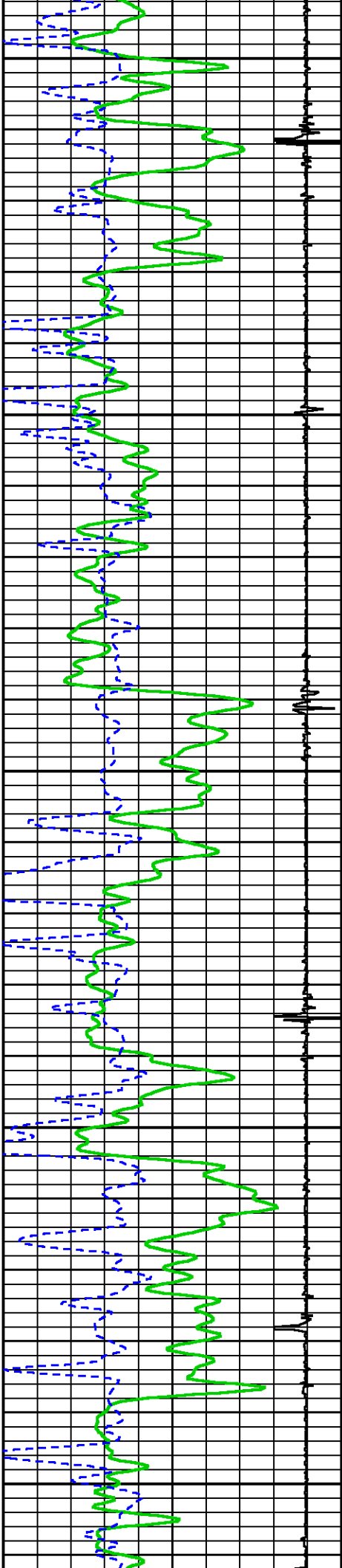
7000

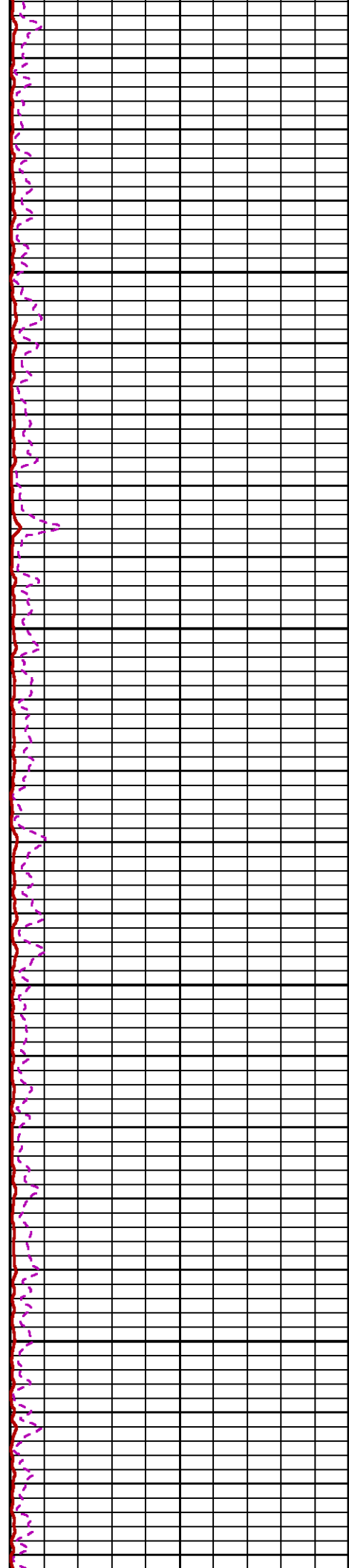
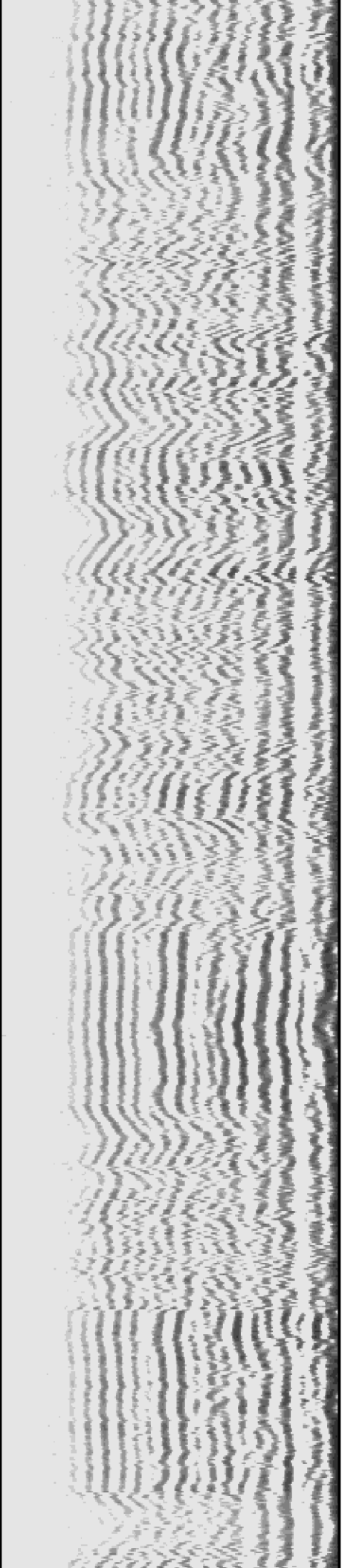




7100

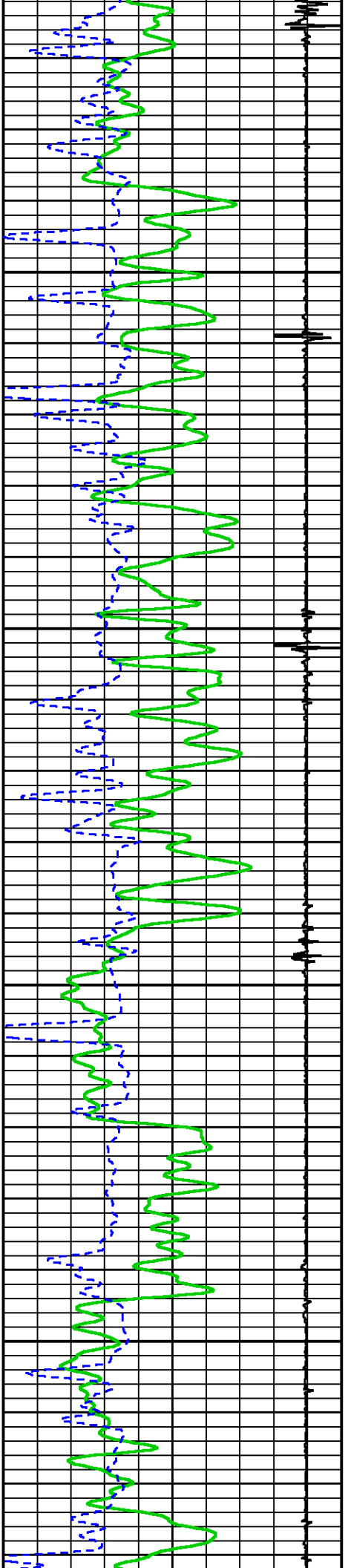
7200

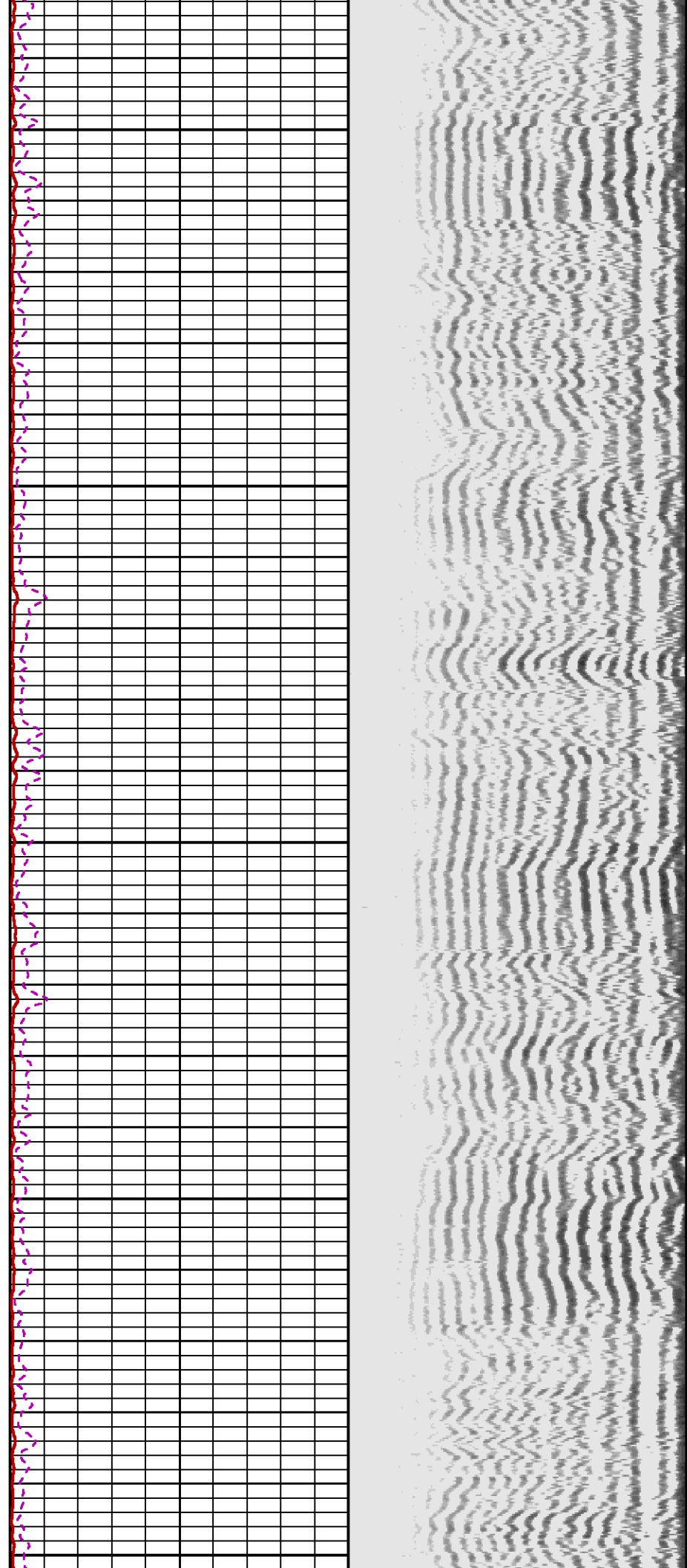




7300

7400

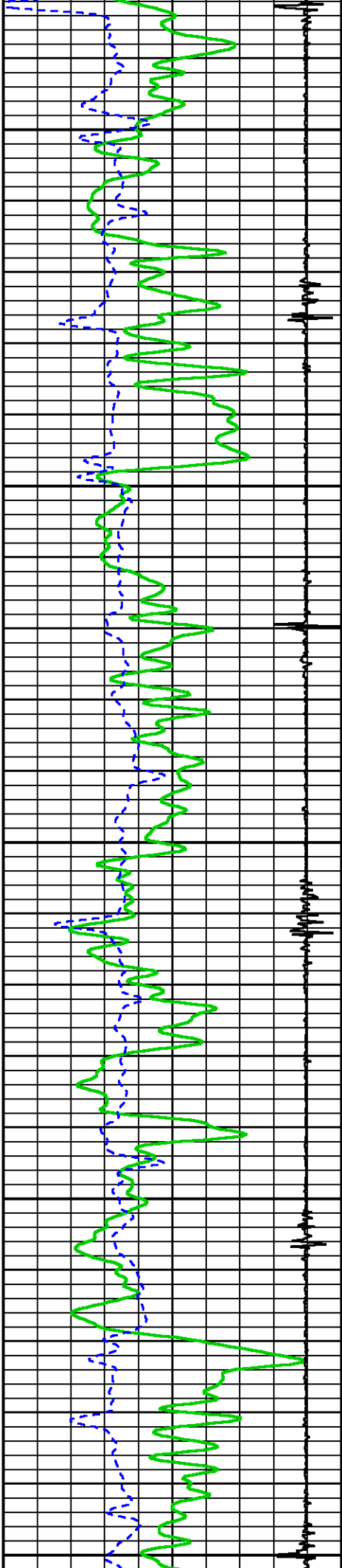


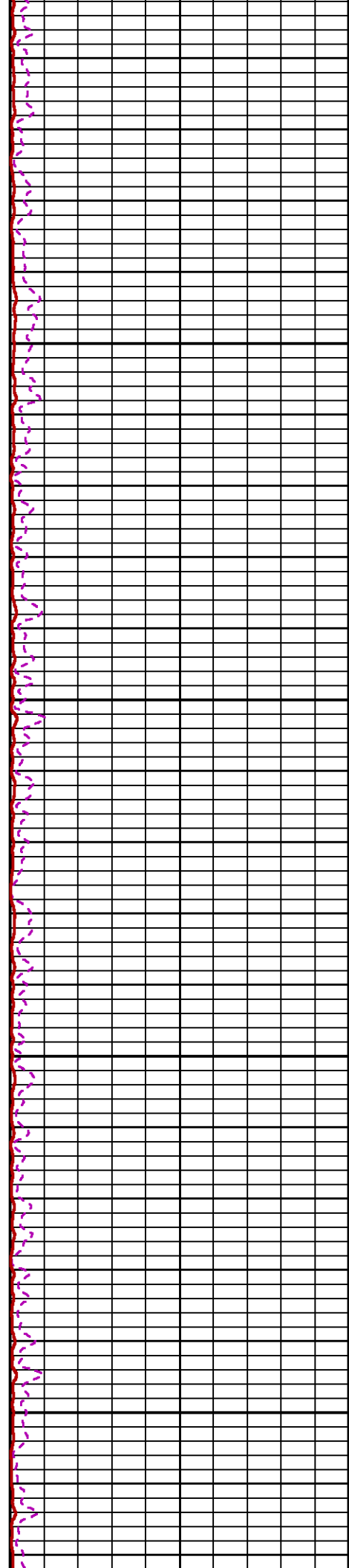
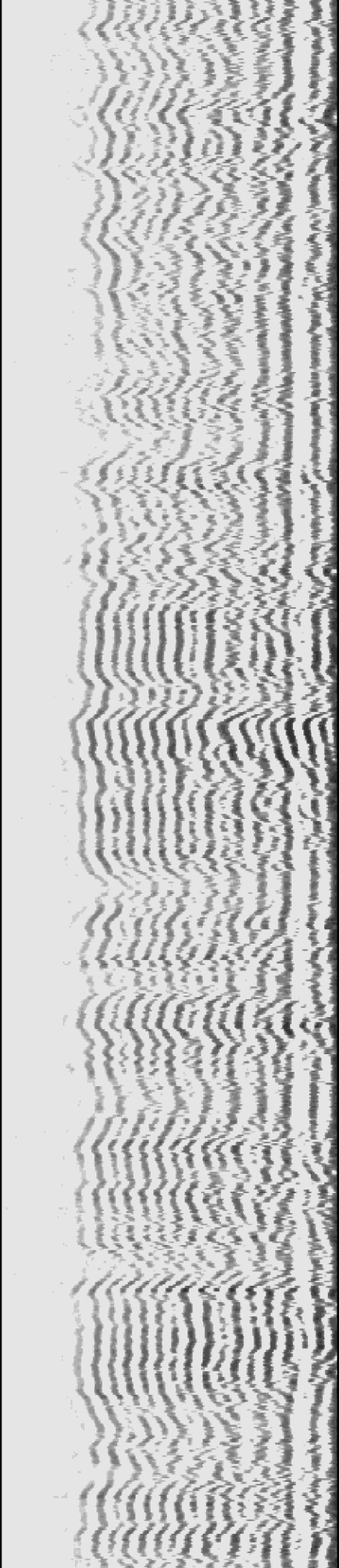


7500

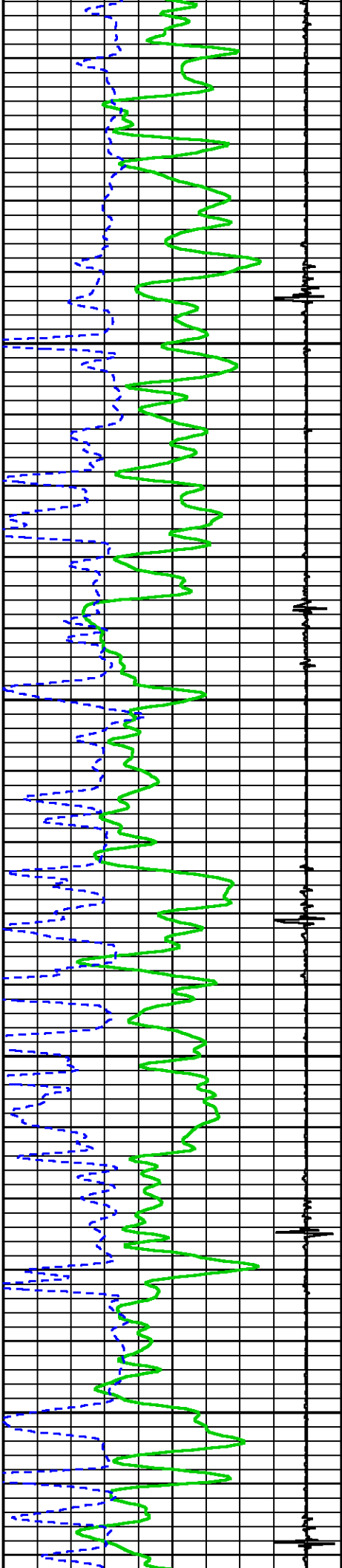
7600

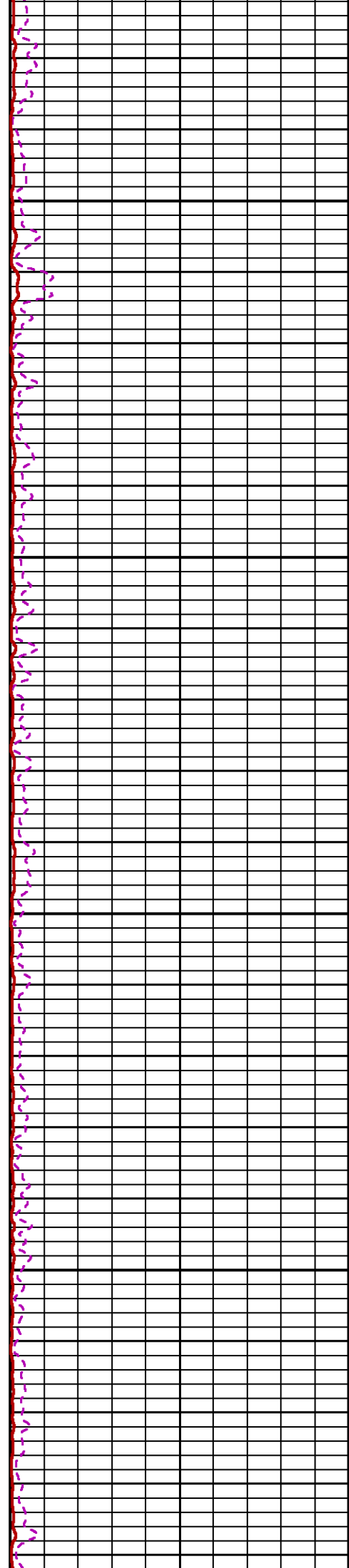
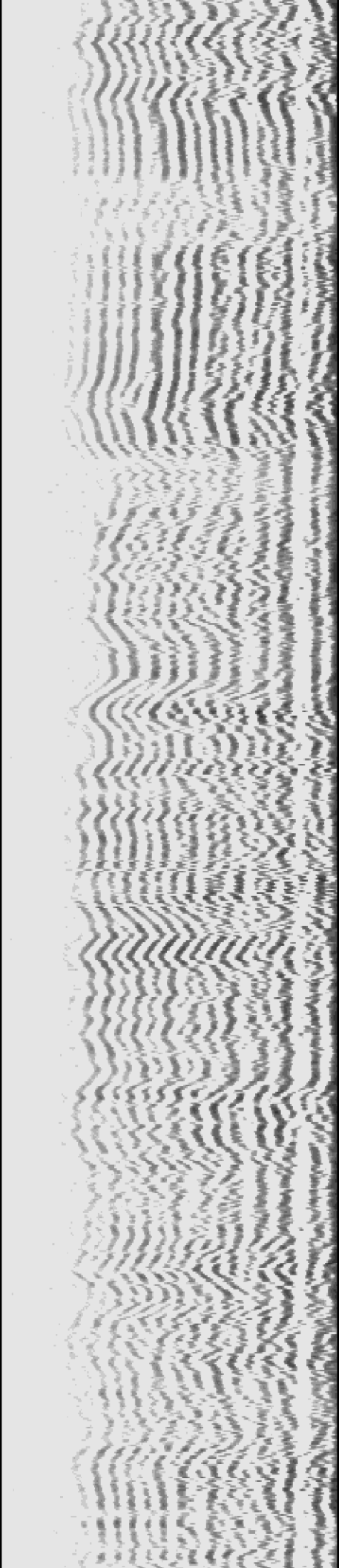
7700





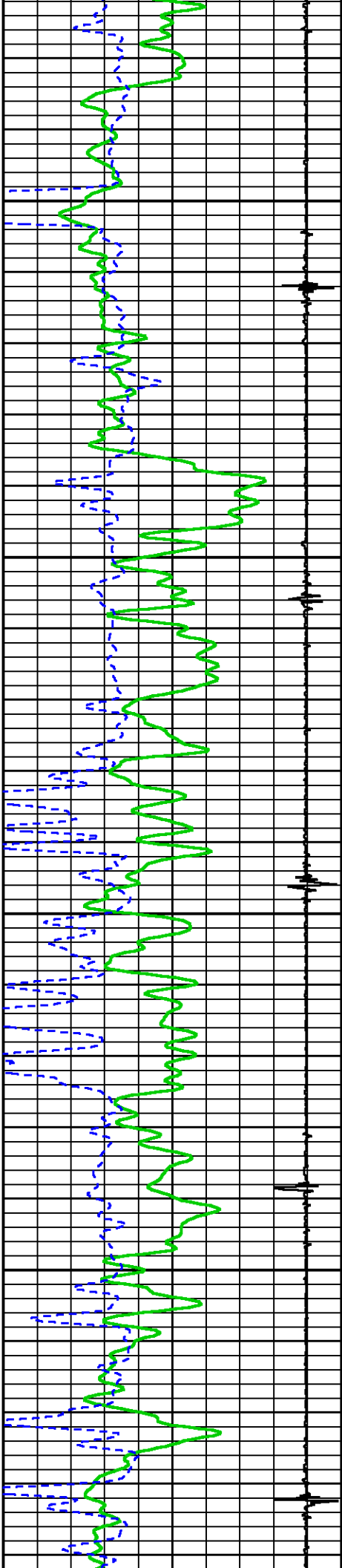
7800 7900

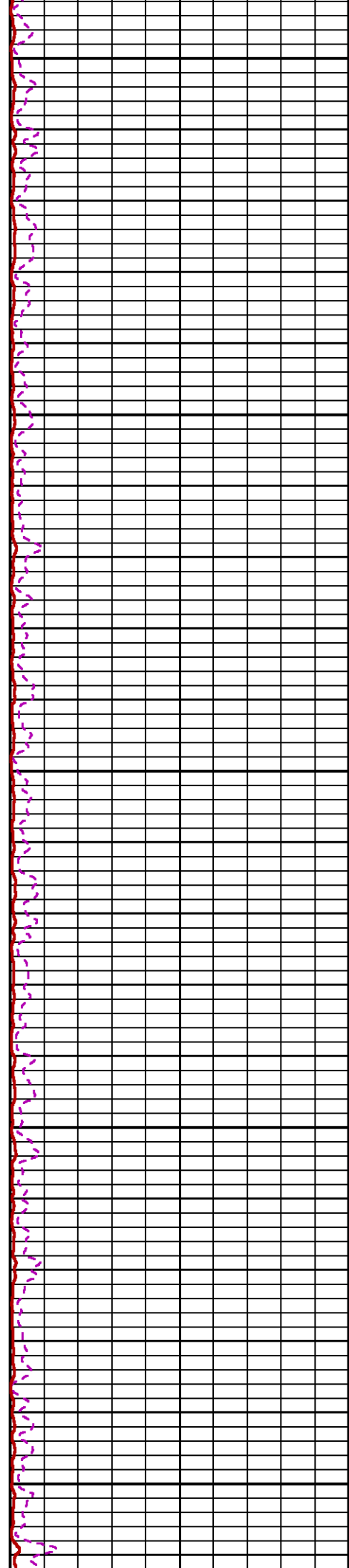
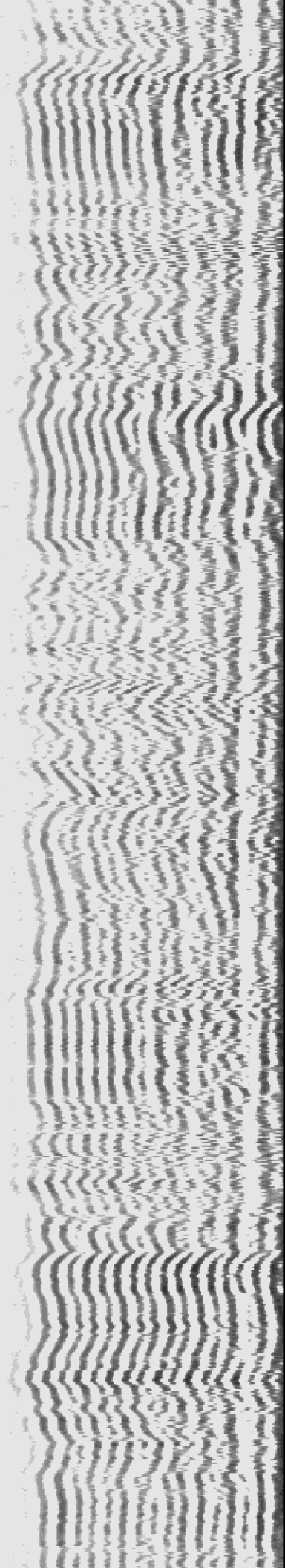




8000

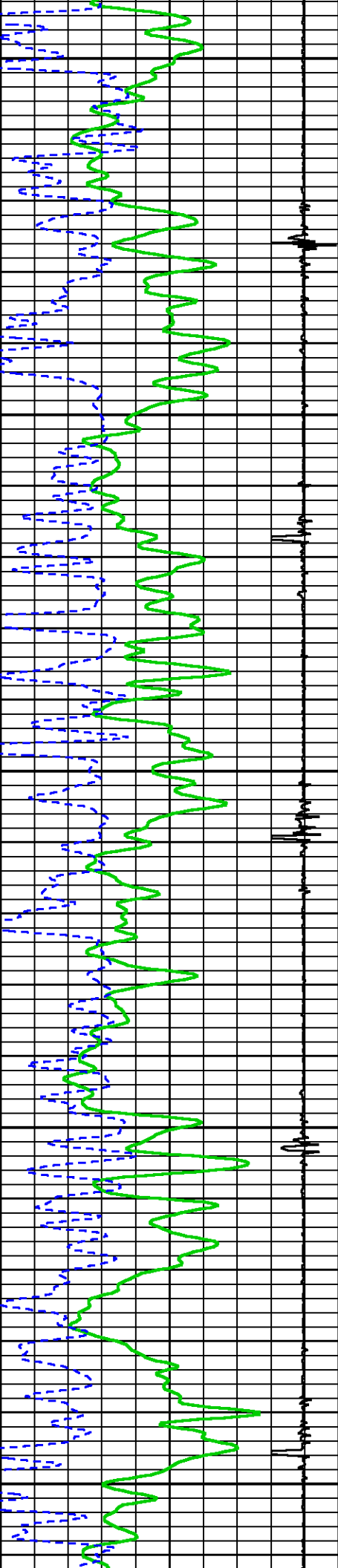
8100

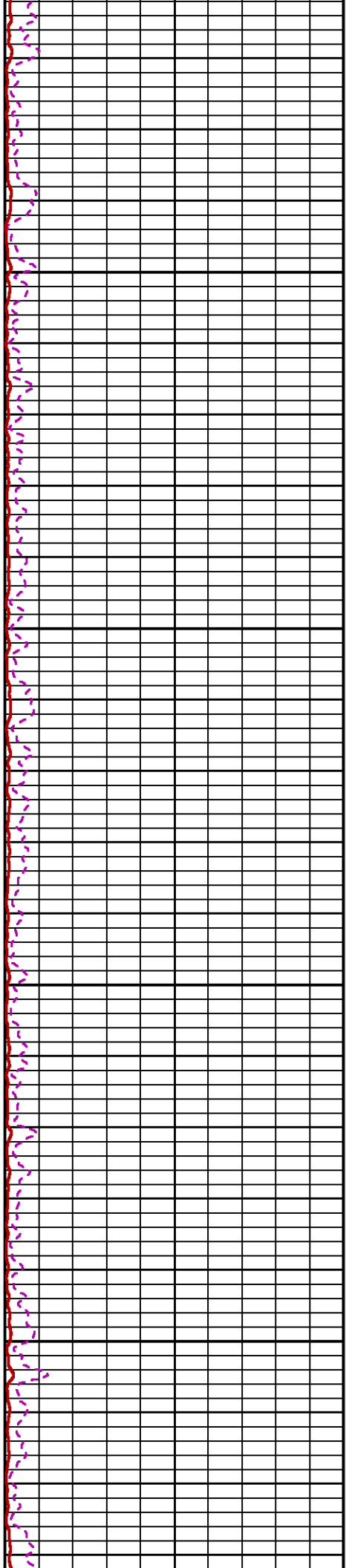
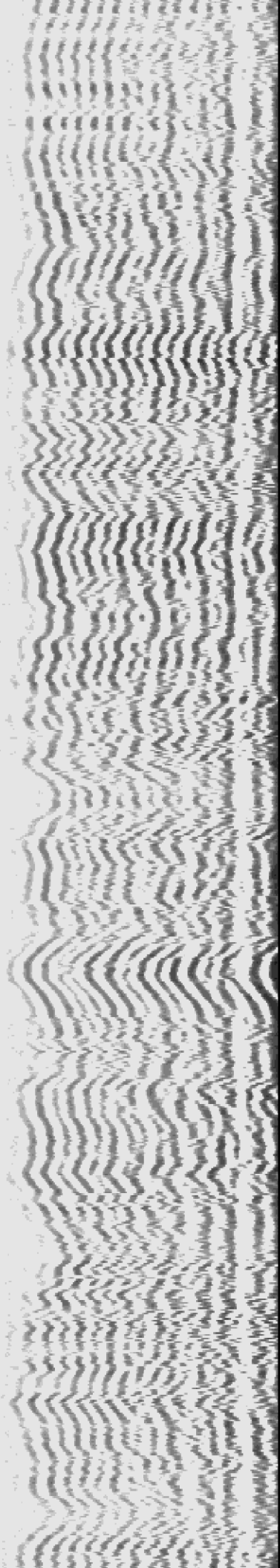




8200

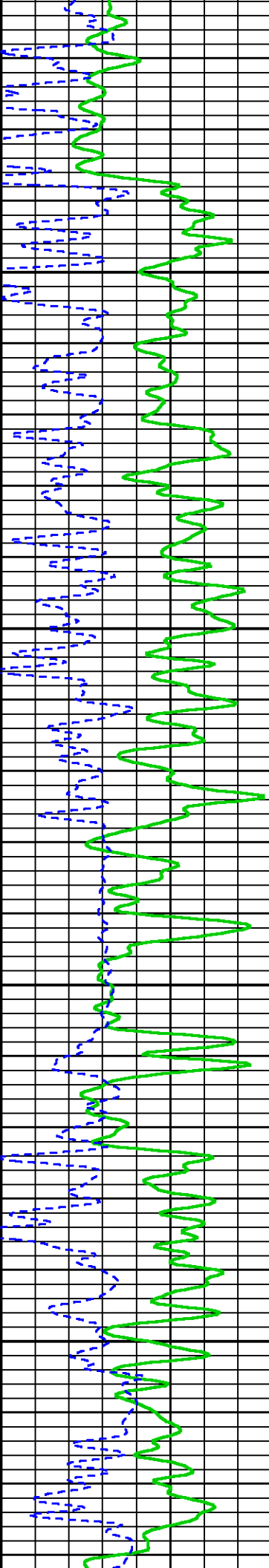
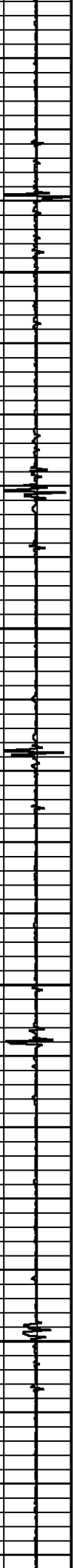
8300

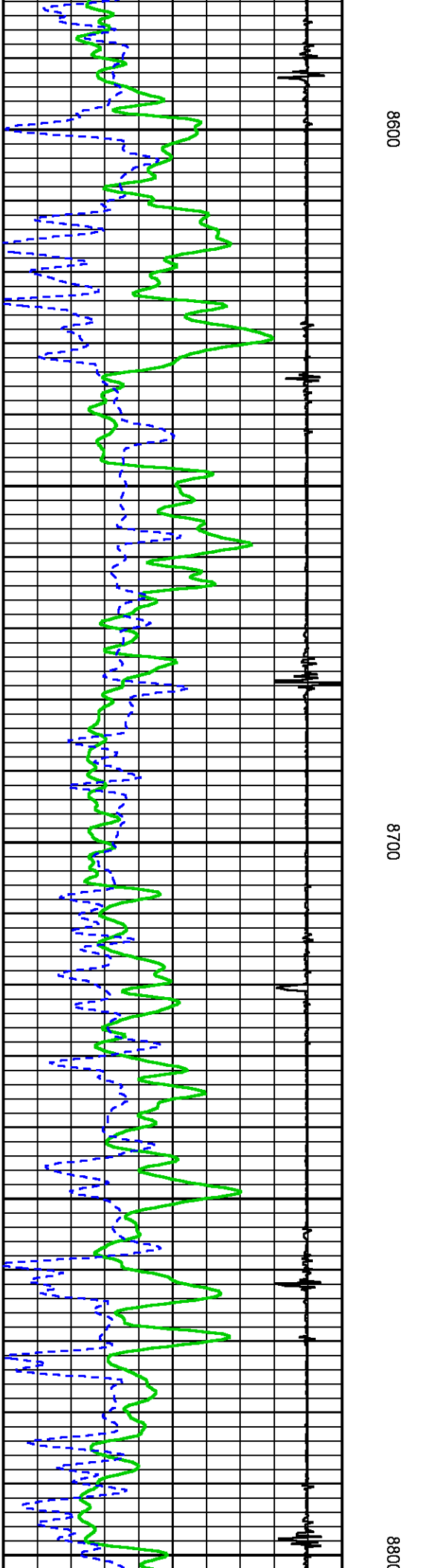
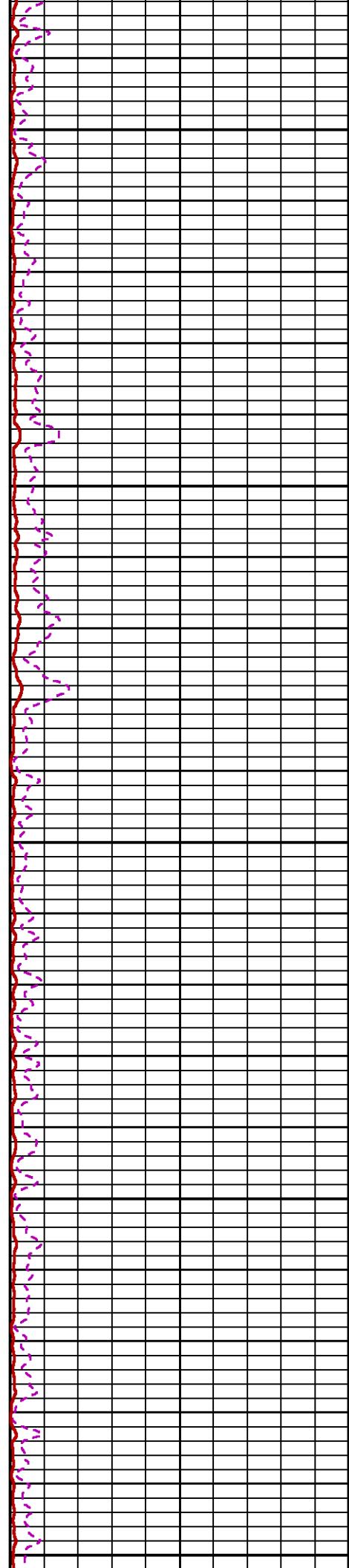
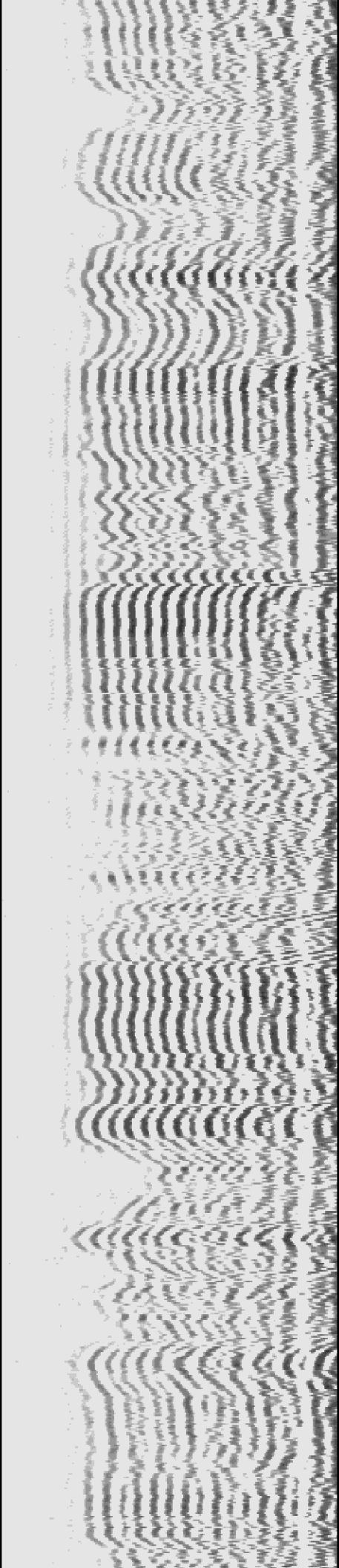


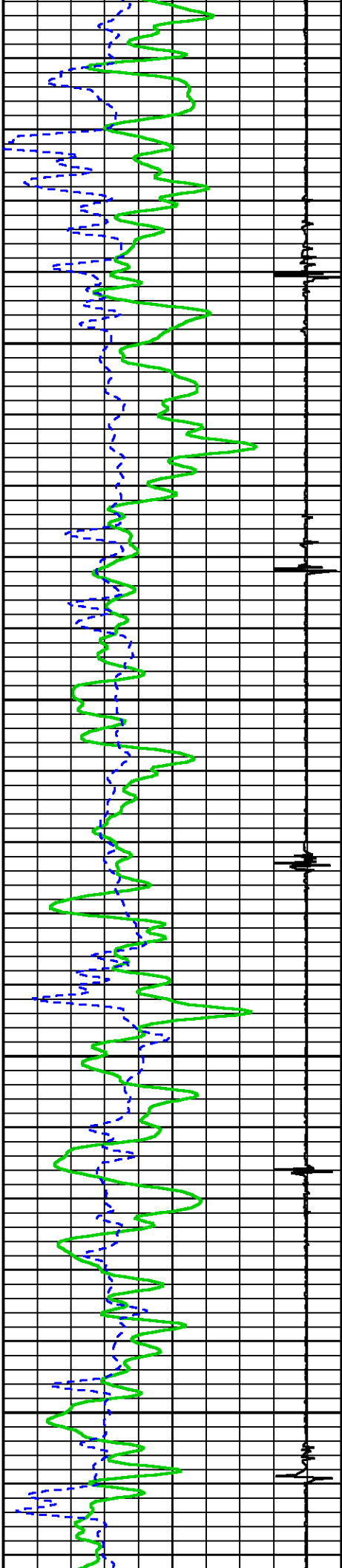


8400

8500

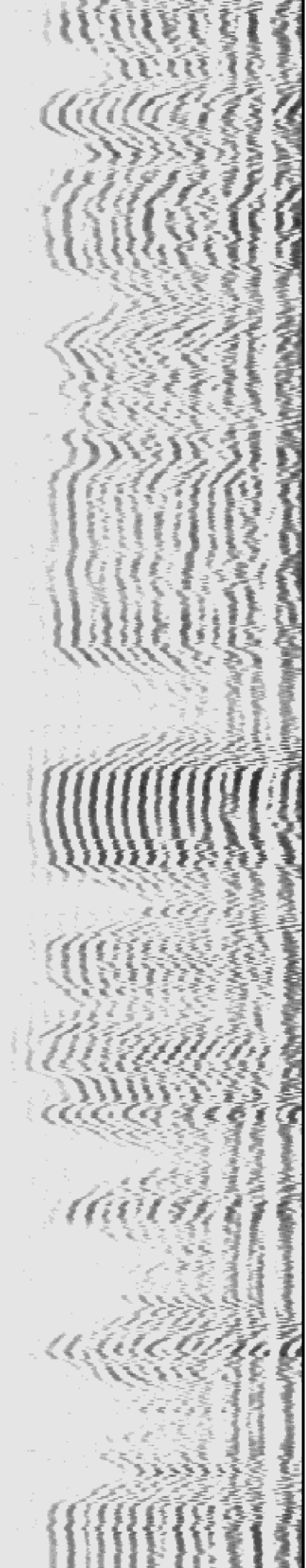
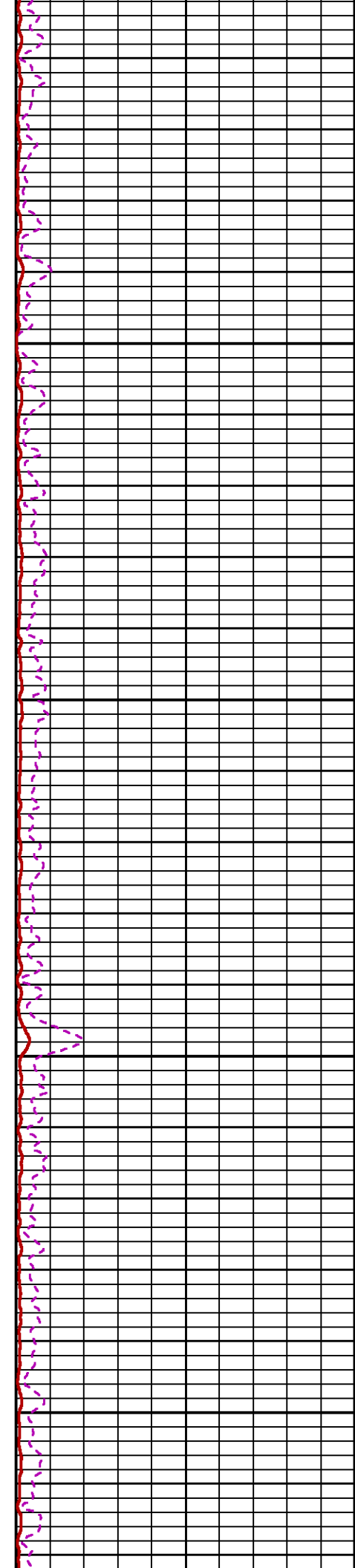


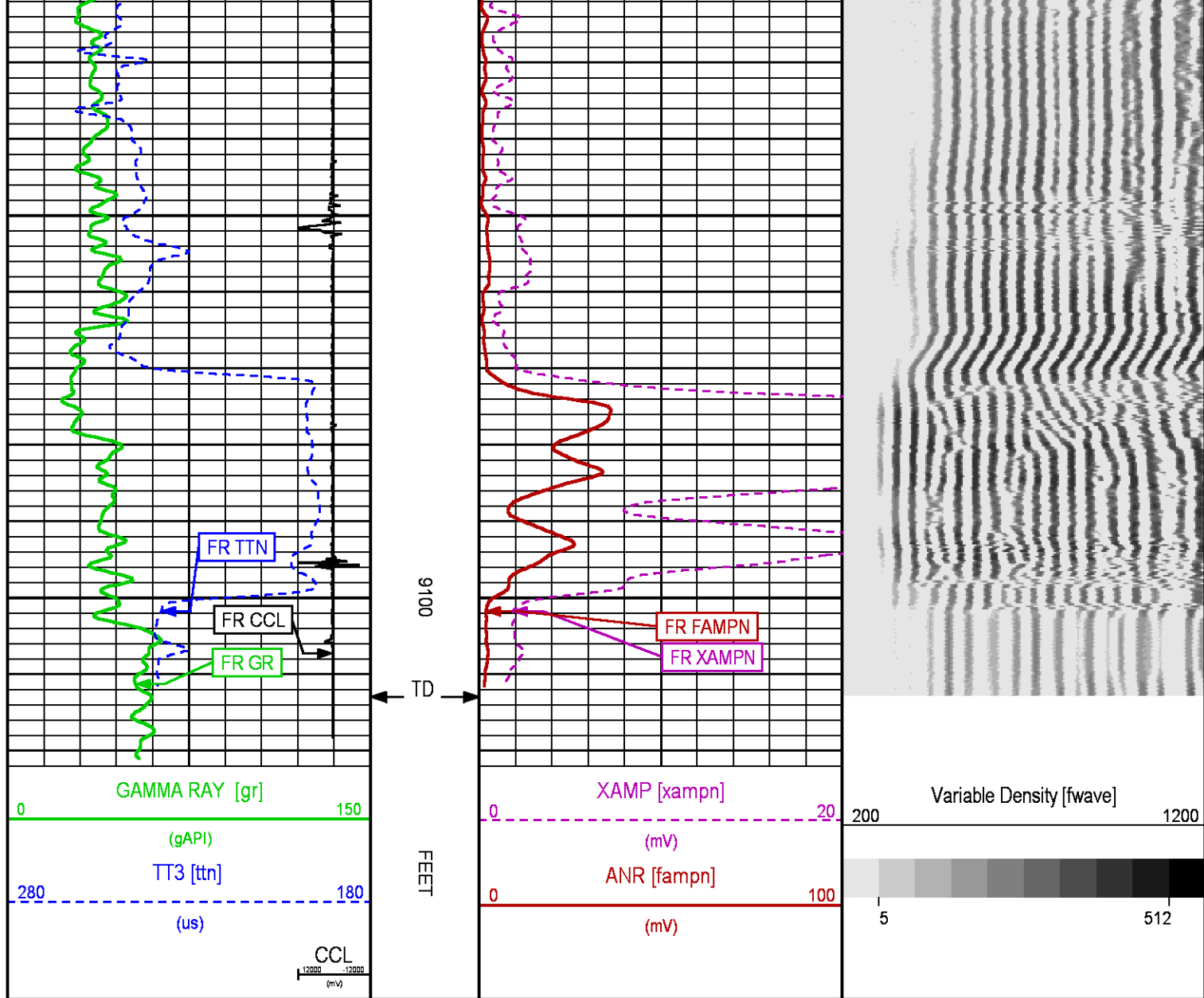




0006

0068





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 Feb 28 08:33:52 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105972/n012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 8891.500 ft BOTTOM DEPTH: 9124.000 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*)	175	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

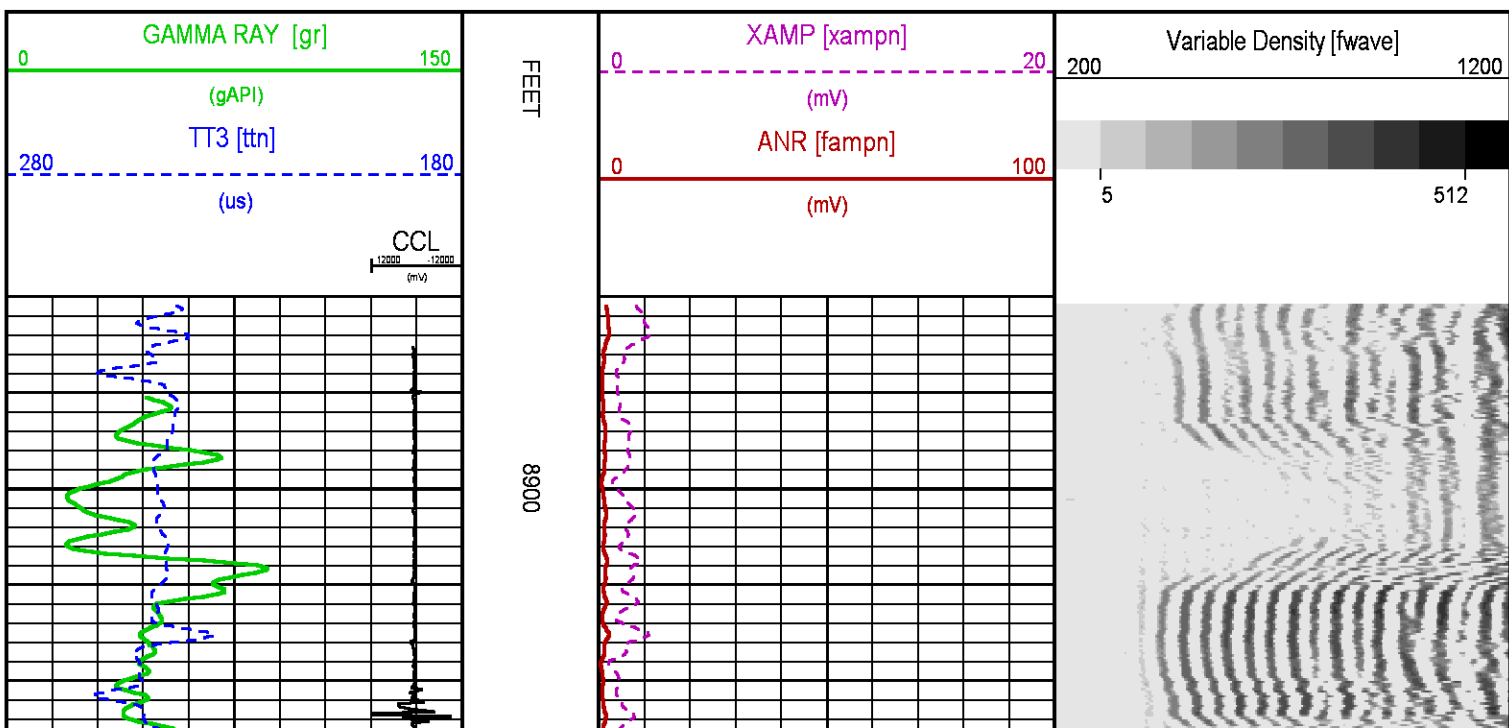
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Feb 28 07:54:01 2016	CASING COLLAR LOCATOR
F1:FAMPN	Feb 28 07:54:01 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Feb 28 07:54:01 2016	FAR WAVE FORM
F1:GR	Feb 28 07:54:01 2016	GAMMA RAY
F1:TTN	Feb 28 07:54:01 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Feb 28 07:54:01 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

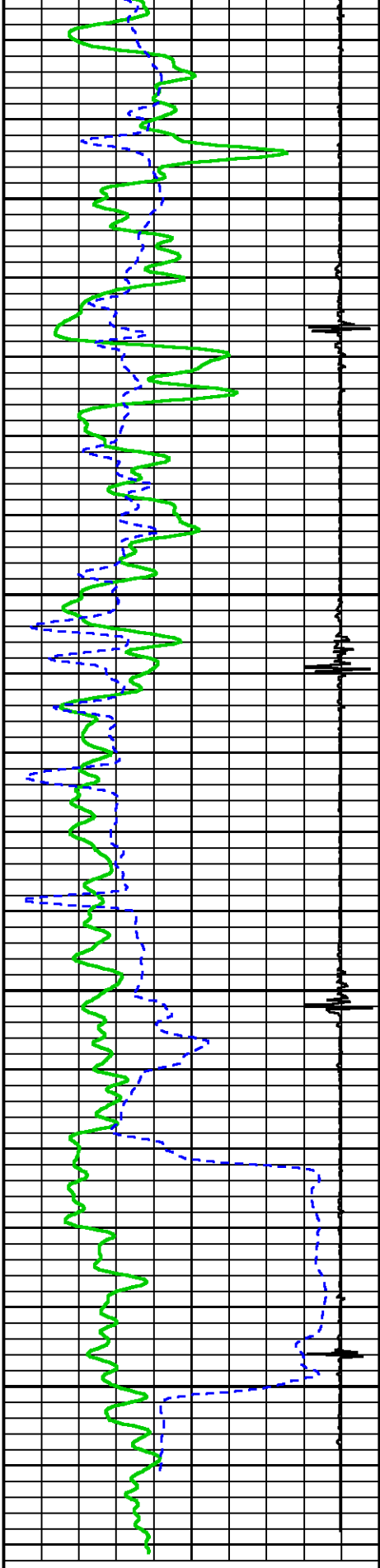
CURVE MEASURE POINT OFFSET

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/CH105972/CAERUS_CBL_RPT.fvpdf [5"/100' Scale]
Plot Interval : 8880.75 - 9122.5 Feet

Data File 1 : F1 : cas6685:/dat1a/CH105972/n012g01_RPT.xtf
Created On : Feb 28 07:54:01 2016
Company : CAERUS OPERATING LLC
Well : PUCKETT 24A-1
Field : GRAND VALLEY
File Interval : 8879.75 - 9124 Feet
OCT : n012g



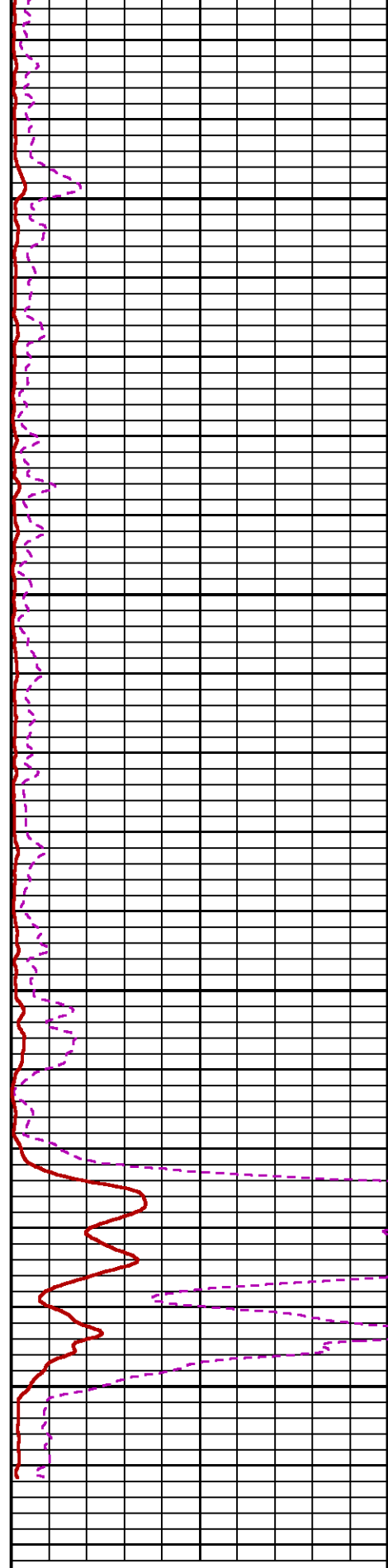


GAMMA RAY [gr]
(gAPI)
TT3 [ttn]
(us)

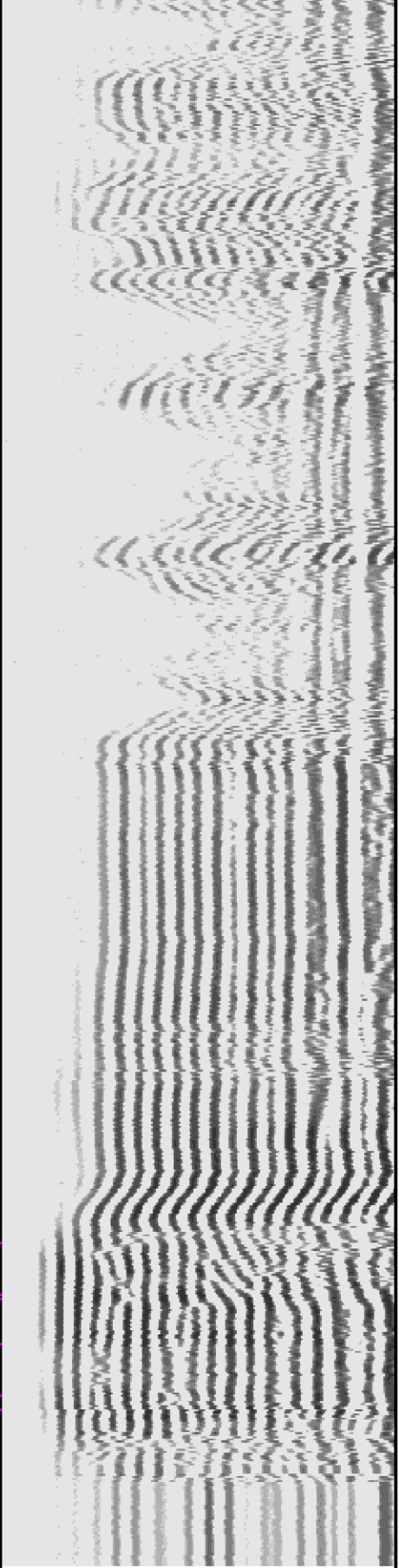
9000

9100

FEET



XAMP [xampn]
(mV)
ANR [fampn]
(mV)



Variable Density [fwave]
200 1200
5 512

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH105972/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10404539

DATE/TIME PERFORMED: Mon Feb 22 09:25:37 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	CAI
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: Sat Feb 27 09:22:48 2016

DAYS SINCE CAL: 4

UNIT #: 3885TC 6685

CABLE #: 6685SM 6685SM

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.05	-0.02	-0.03	0.04	0.01	-0.05	0.05	-0.04	-0.00	-0.01	-0.13
AMP AIR	0.54	0.60	0.39	0.01	-1.03	3.28	-0.86	-0.14	0.62	-0.31	100.82

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
0.97	0.00	0.99

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 CALBRTR ON (cts)	MULT	BACKGROUND 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/CH105973/n012g~ldg

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

20.38'

NEAR RCVR 11.17'


FAR RCVR 10.21'

CCL 5.79'

Measure Point: 0.17": TEMP

CR 1.67"
TEMP 0.00"

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

	COMPANY <u>CAERUS OPERATING LLC</u>		FILE NO:
	WELL <u>PUCKETT 24A-1</u>		<u>CH105972</u>
	FIELD <u>GRAND VALLEY</u>		API NO:
	COUNTY <u>GARFIELD</u>	STATE <u>COLORADO</u>	<u>05045226170000</u>
LOCATION: SHL: 308' FEL 1088' FSL SEC2 T7S R97W BHL:1909' FEL 1042' FSL SEC1 T7S R97W		ELEVATIONS: KB 8453.8 FT DF GL 8423.8 FT	SEC 1 T7S R97W H&P 330 MESA P2 797 PAD
SEC <u>1</u> TWP <u>7S</u> RGE <u>97W</u>		DATE <u>28-FEB-2016</u>	