



FILE NO: CH105968	COMPANY CAERUS OPERATING LLC
API NO: 05045226160000	WELL PUCKETT 14A-1
	FIELD GRAND VALLEY
	COUNTY GARFIELD
	STATE COLORADO

Ver. 4.06	LOCATION:	OTHER SERVICES
SEC 1 T 7S R 97W	SHL: 304 FEEL & 1095' FSL, 2 7S 97W	RPM
PAD: MESA P2-797	BHL: 713 FEEL & 1235' FSL, 1 7S 97W	
RIG: H&P 330	SEC 1 TWP 7S RGE 97W	

PERMANENT DATUM	GL	ELEVATION	8423.8 FT
LOG MEASURED FROM	K.B.	30 FT	ABOVE P.D.
DRILL. MEAS. FROM	K.B.		
		KB	8453.8 FT
		DF	
		GL	8423.8 FT

DATE	02-Mar-2016		
RUN	1	TRIP	1
SERVICE ORDER	US105968		
DEPTH DRILLER	8824 FT		
DEPTH LOGGER	8776 FT		
BOTTOM LOGGED INTERVAL	8774 FT		
TOP LOGGED INTERVAL	2500 FT		
TIME STARTED	7:00		
TIME FINISHED	9:30		
OPERATOR RIG TIME	2.5 HOURS		
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.	224 DEGF		
REFERENCE LOG	NA		
REFERENCE LOG DATE	NA		
EQUIP. NO.	HL-6670	LOCATION	GRAND JCT
RECORDED BY	T. NEWELL		
WITNESSED BY	MR. 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
8.75 IN	1200 FT	8887 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F	P-110	0 FT	8858 FT

REMARKS
RUN 1 TRIP 1: THIS IS THE FIRST WIRELINE RUN ON THIS WELL. TOOLS HAVE BEEN ZERO'D AT KB HEIGHT AND LOG HAS NOT BEEN SHIFTED DOWNHOLE
LOGGED WITH 0 PSI AT SURFACE
SJ = 6211' - 6220'
BHT = 224 DEGF
THANKS FOR CHOOSING BAKER HUGHES WIRELINE

EQUIPMENT DATA				
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.
1	1	DA	1122961	12121112

1	1	RAL	1426XA	10124106	CENTRALIZED
1	1	GR / CCL	1355XA	11871506	CENTRALIZED

## MAIN 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: Wed Mar 2 11:09:16 2016

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105968/n012g02.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 2492.250 ft BOTTOM DEPTH: 8782.750 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*)	186	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	177	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*)	-70	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	Mar 2 08:08:35 2016	CASING COLLAR LOCATOR
F1:FAMPN	Mar 2 08:08:35 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 2 08:08:35 2016	FAR WAVE FORM
F1:GR	Mar 2 08:08:35 2016	GAMMA RAY
F1:TTN	Mar 2 08:08:35 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 2 08:08:35 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

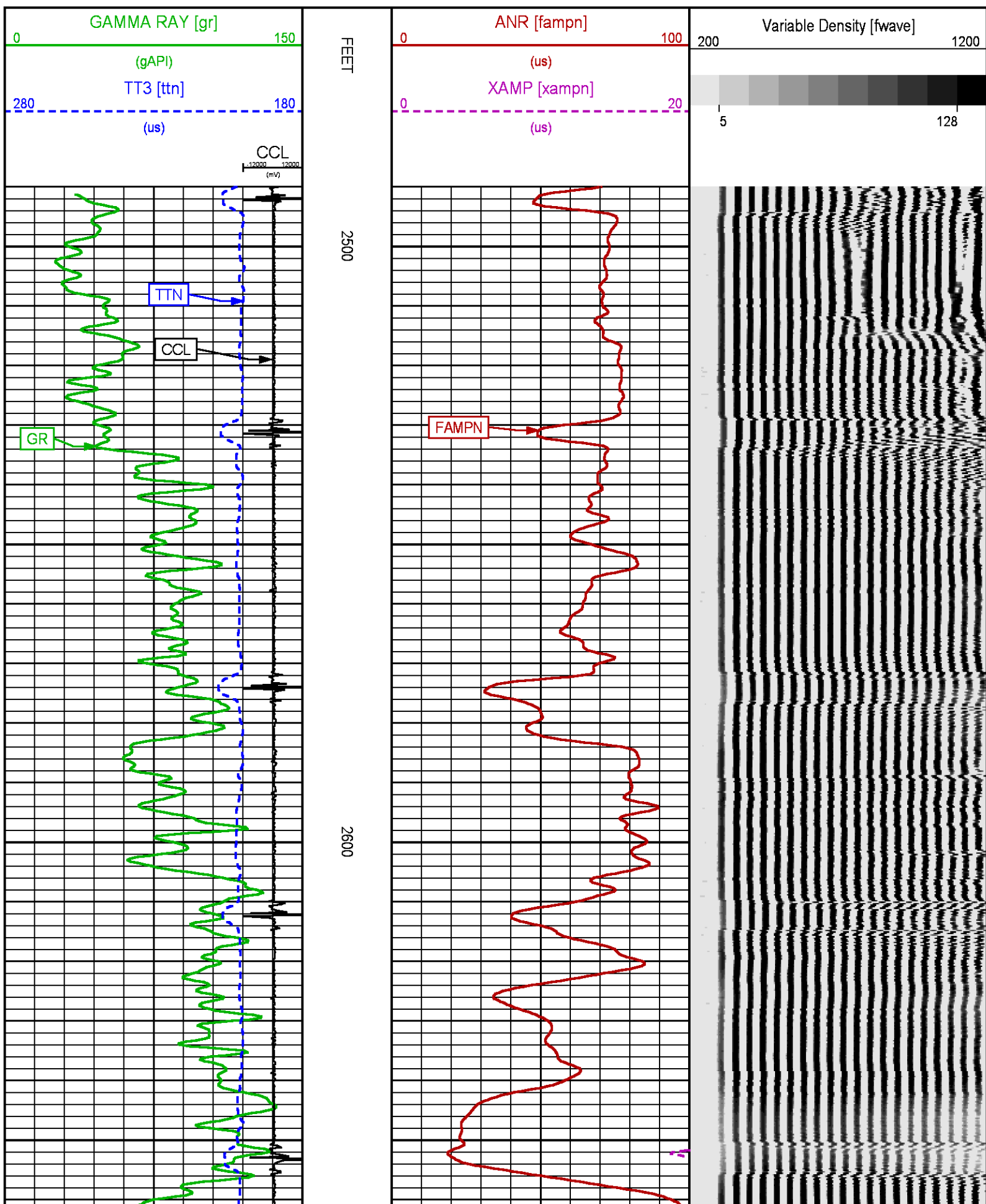
### CURVE MEASURE POINT OFFSET

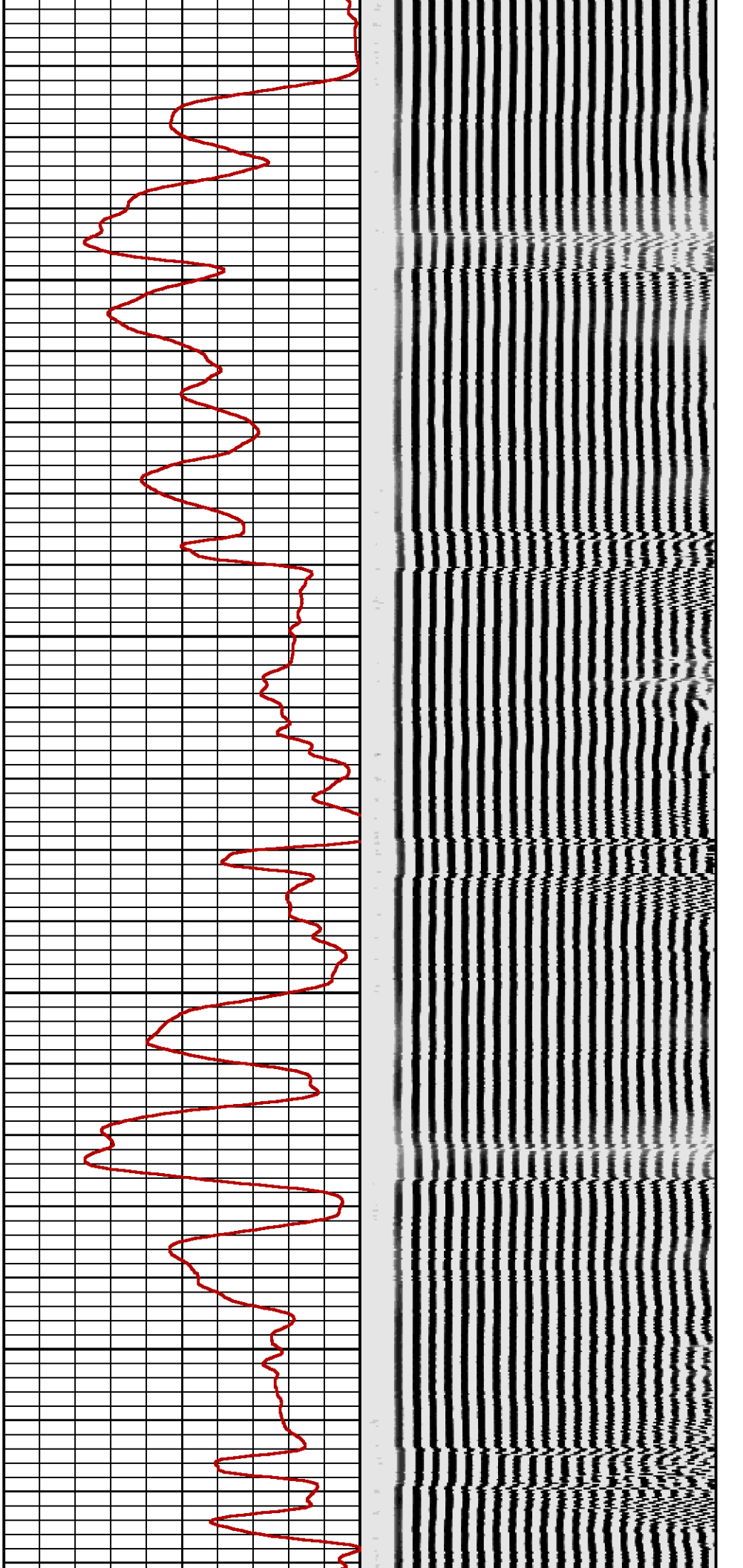
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation : cpu100:/dat1a/CH105968/14A1\_CBL\_MAIN.fvpdf [5"/100' Scale]  
 Plot Interval : 2490 - 8785 Feet

Data File 1 : F1 : cpu100:/dat1a/CH105968/14A1\_CBL\_MAIN.xtf  
 Created On : Mar 2 08:08:35 2016

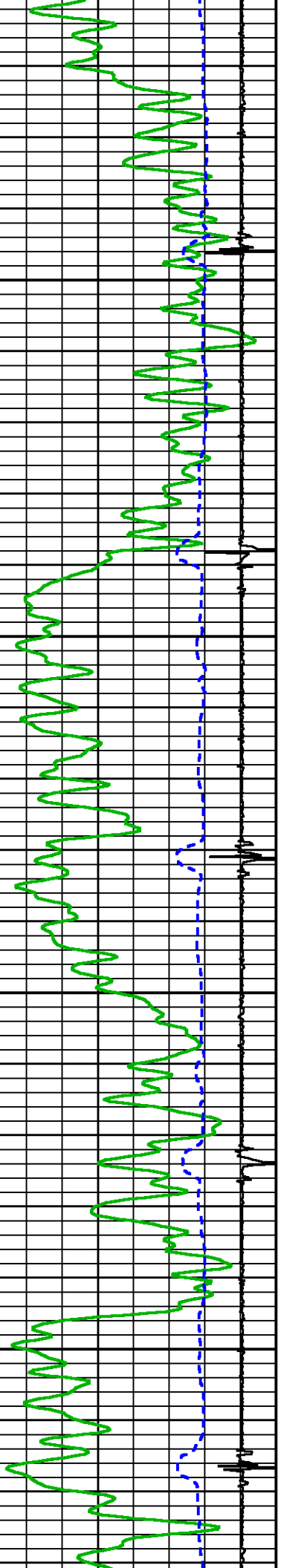
Created On : Mar 2 06:06:35 2010  
Company : CAERUS OPERATING LLC  
Well : PUCKETT 14A-1  
Field : GRAND VALLEY  
File Interval : 2480.5 - 8782.75 Feet  
OCT : n012g

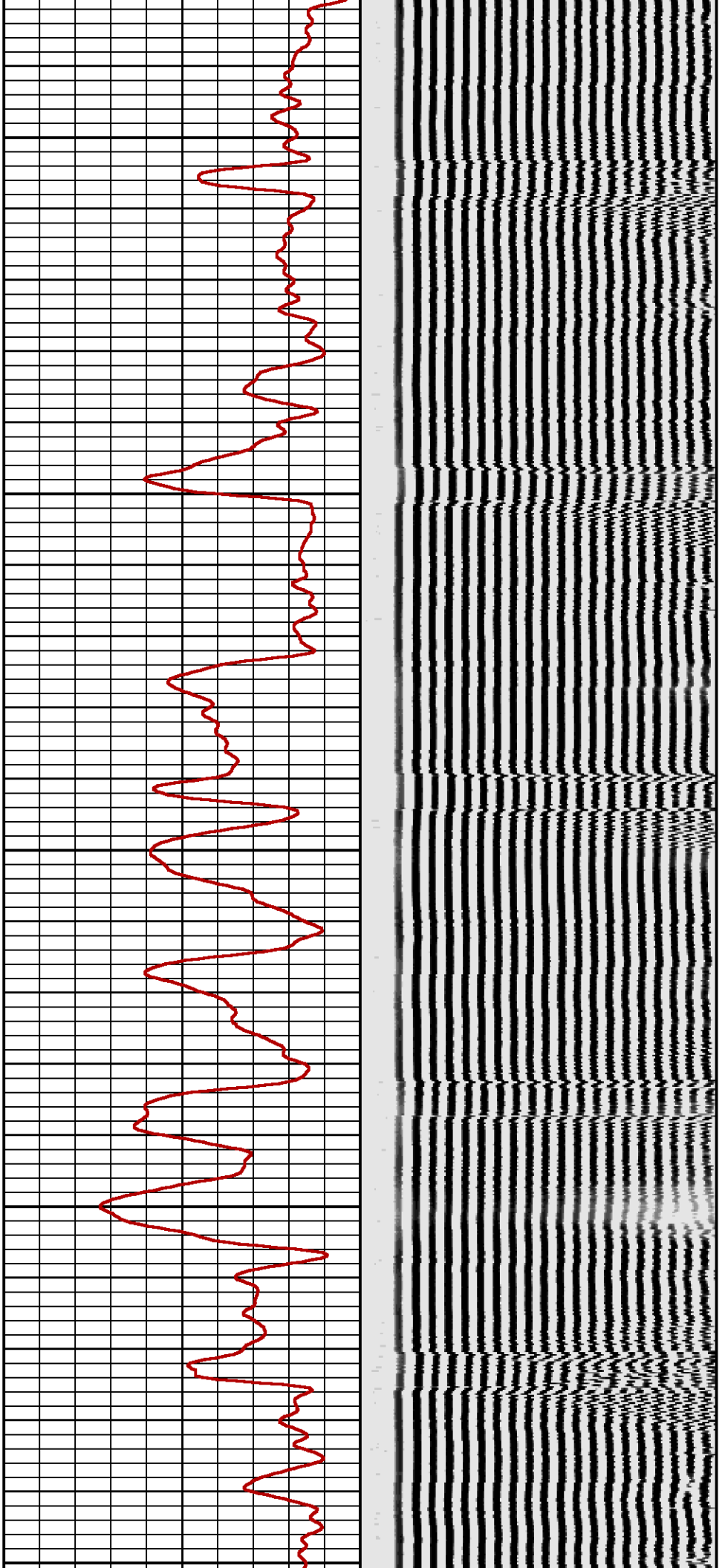




2700

2800

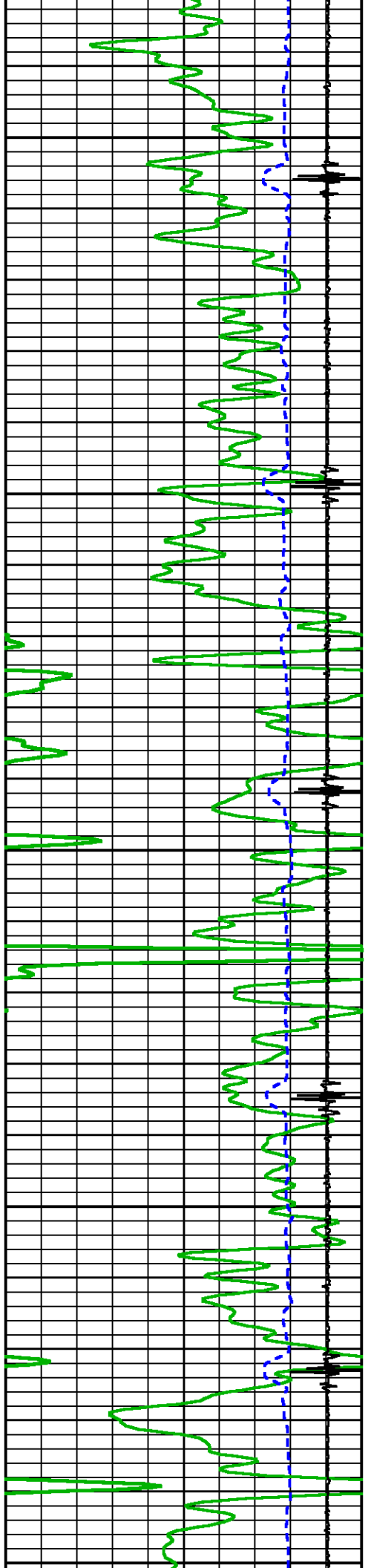


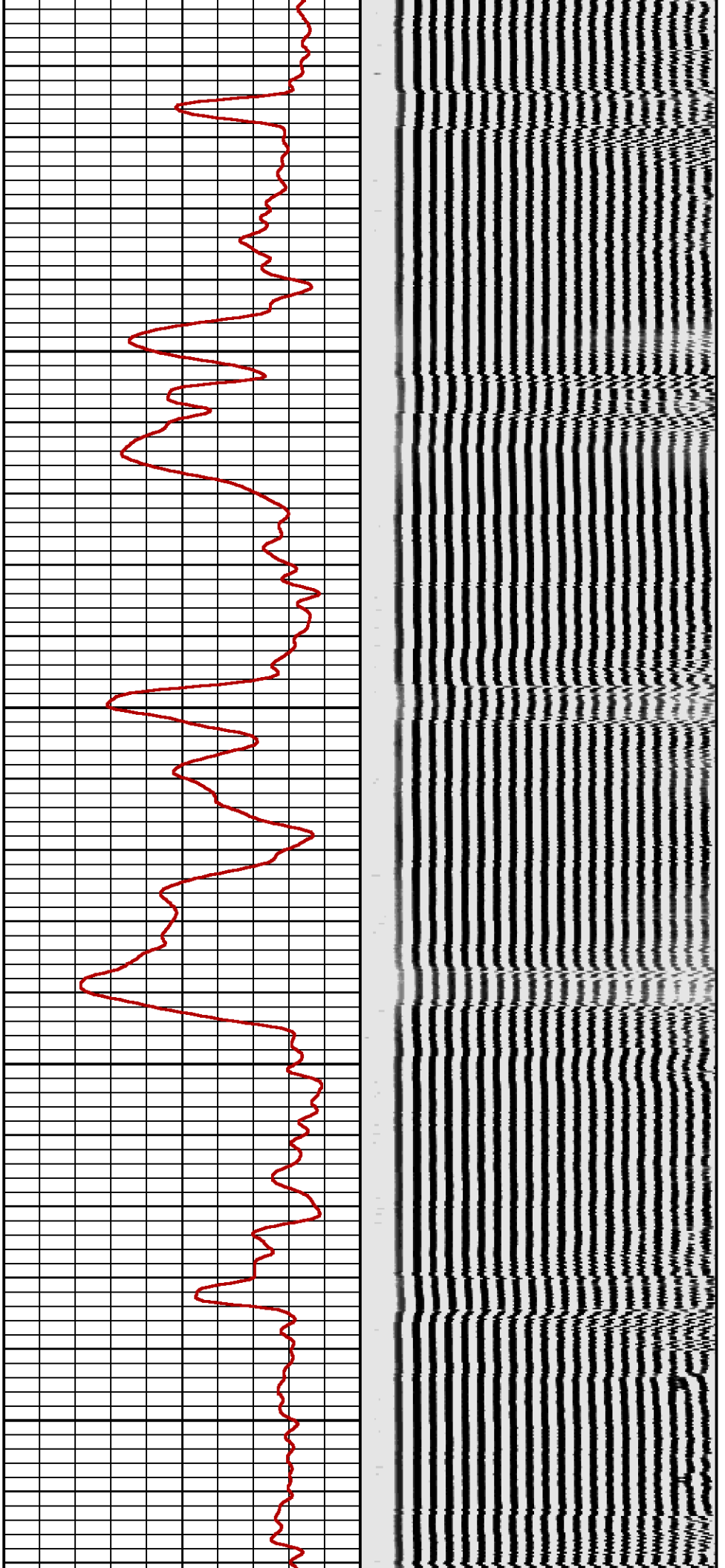


2900

3000

3100

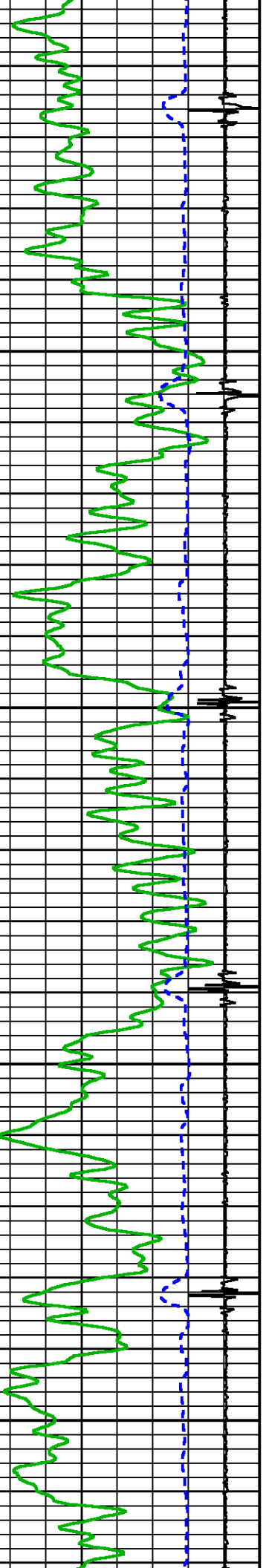




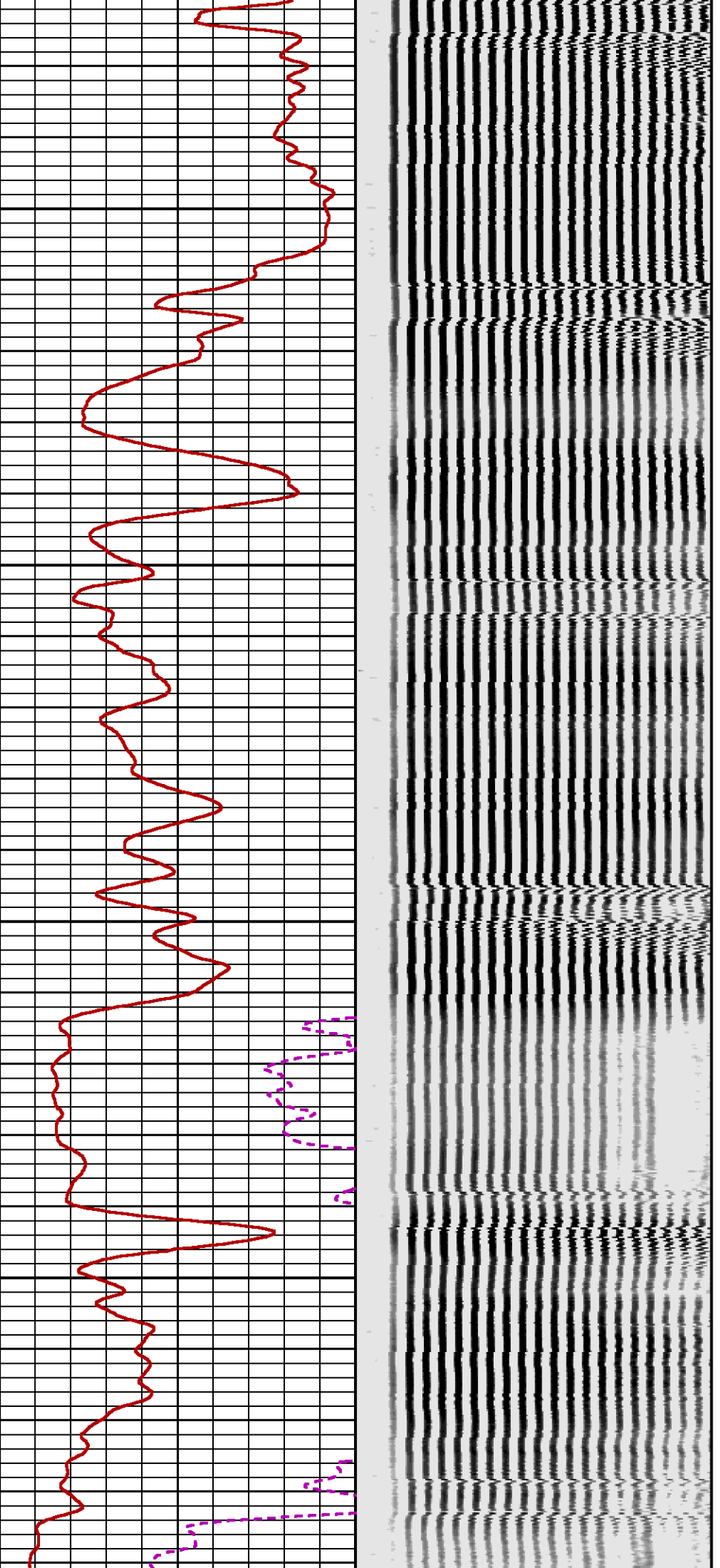
30

3200

3300

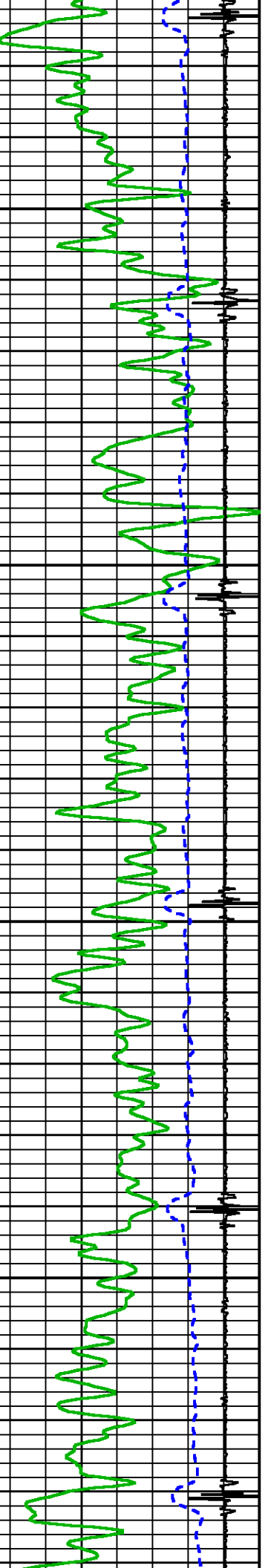


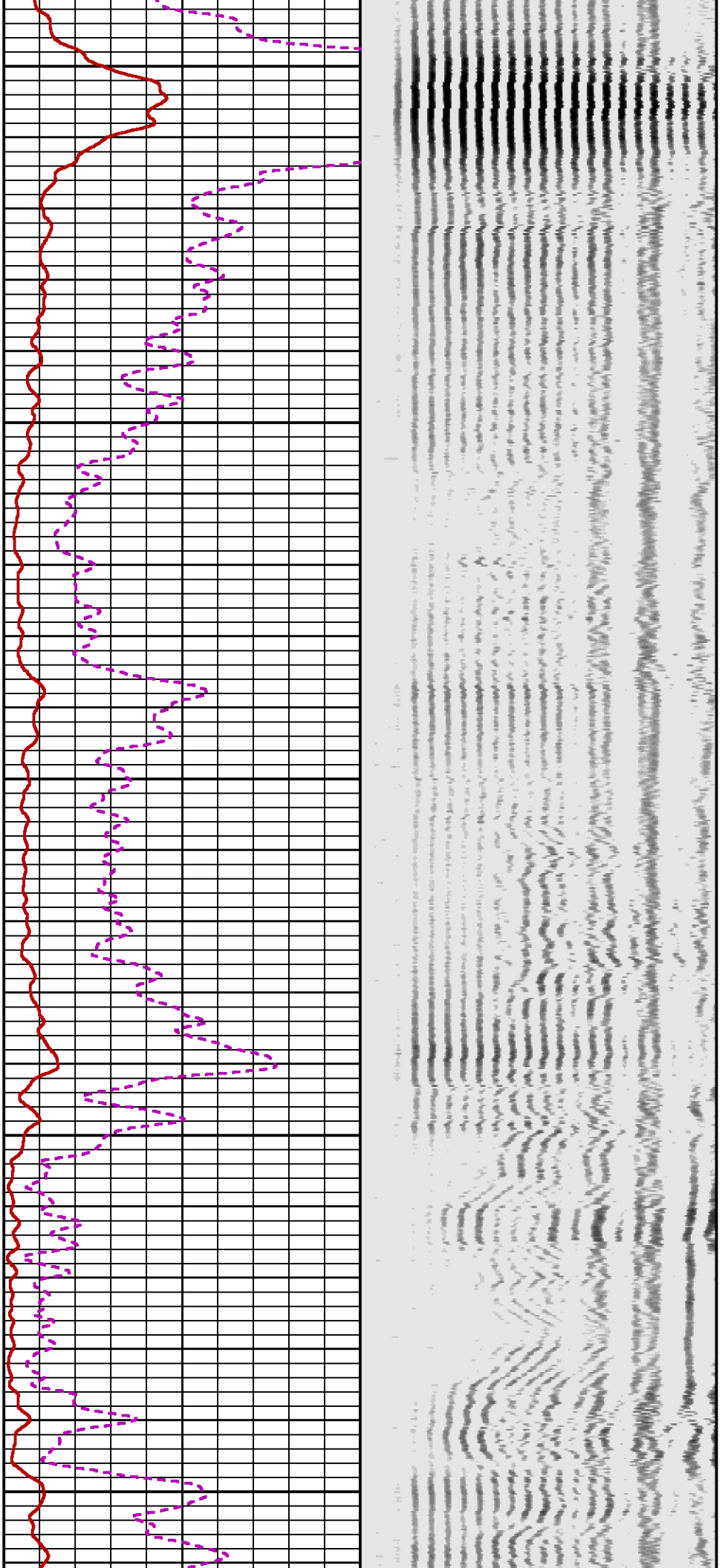




3400

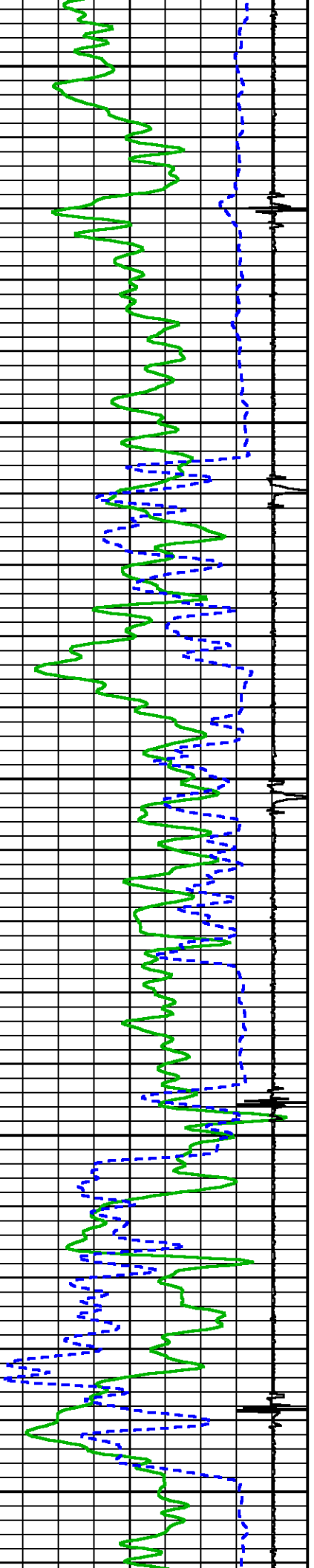
3500



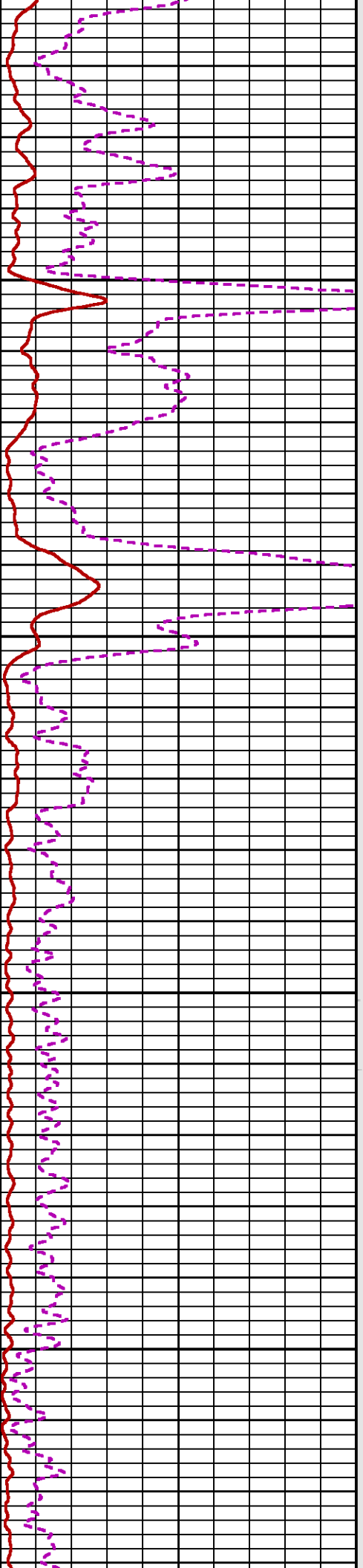
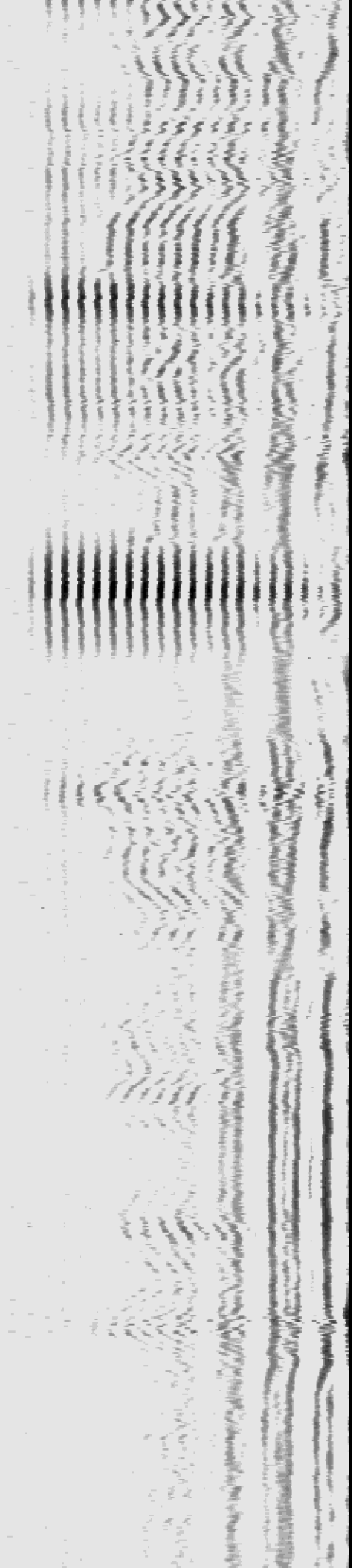


3600

3700

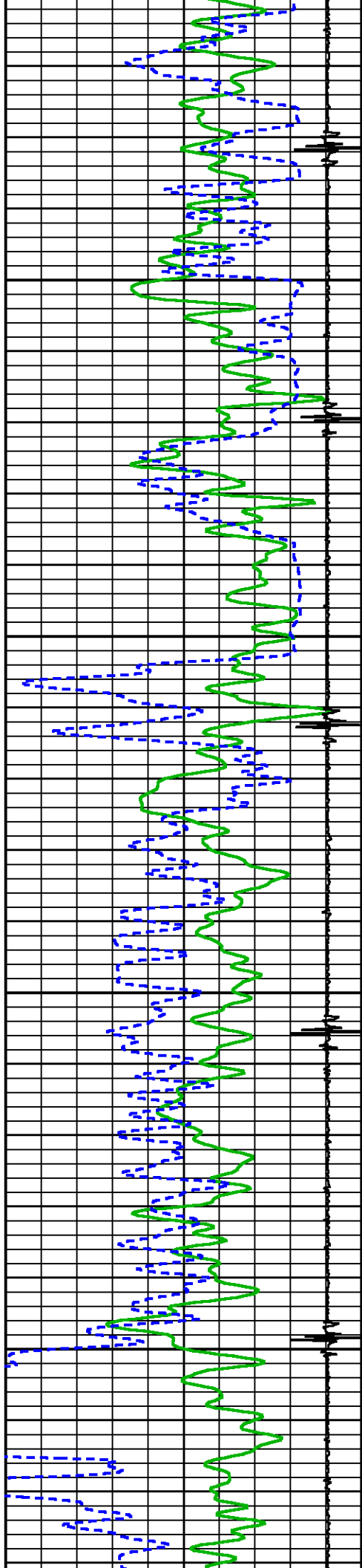


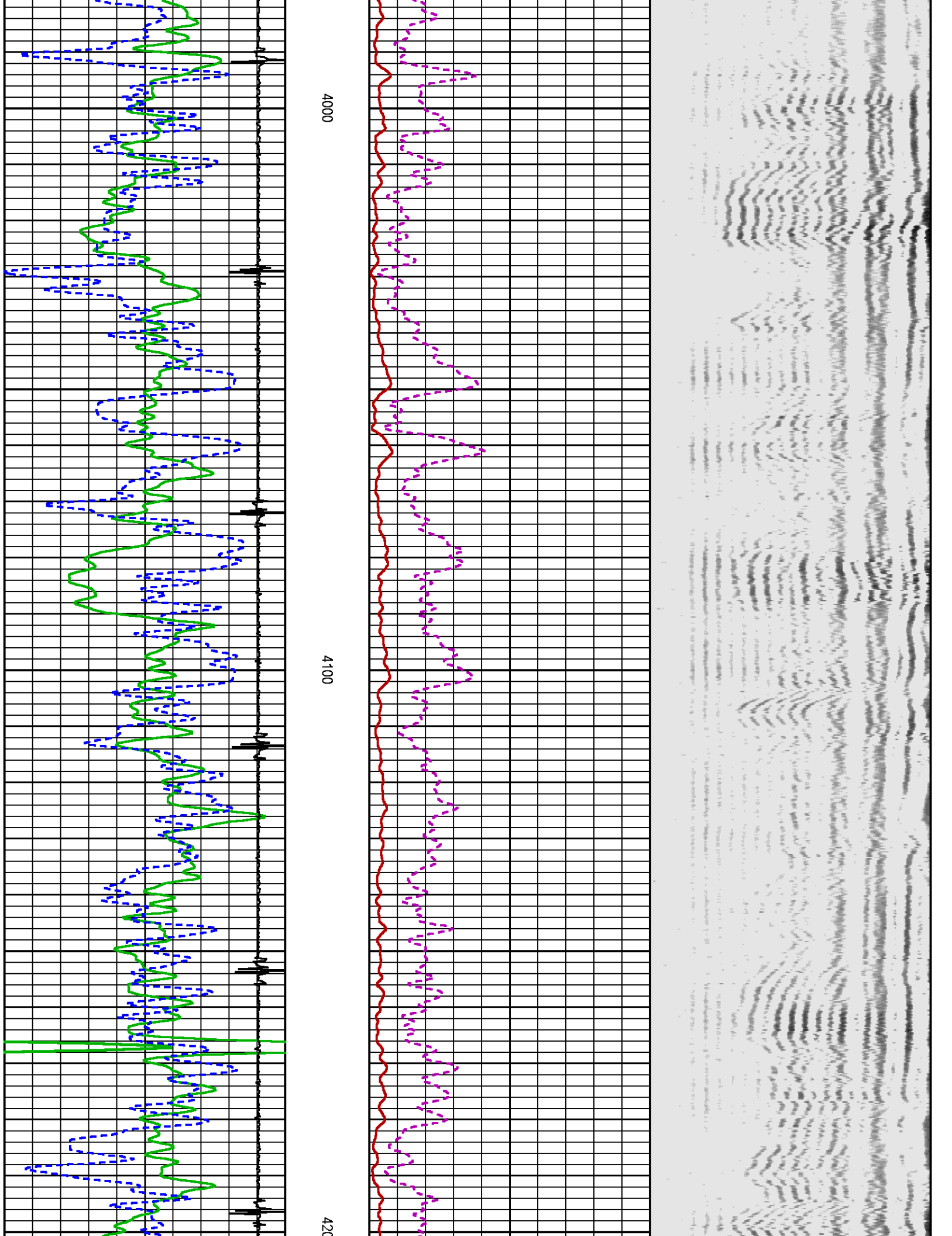


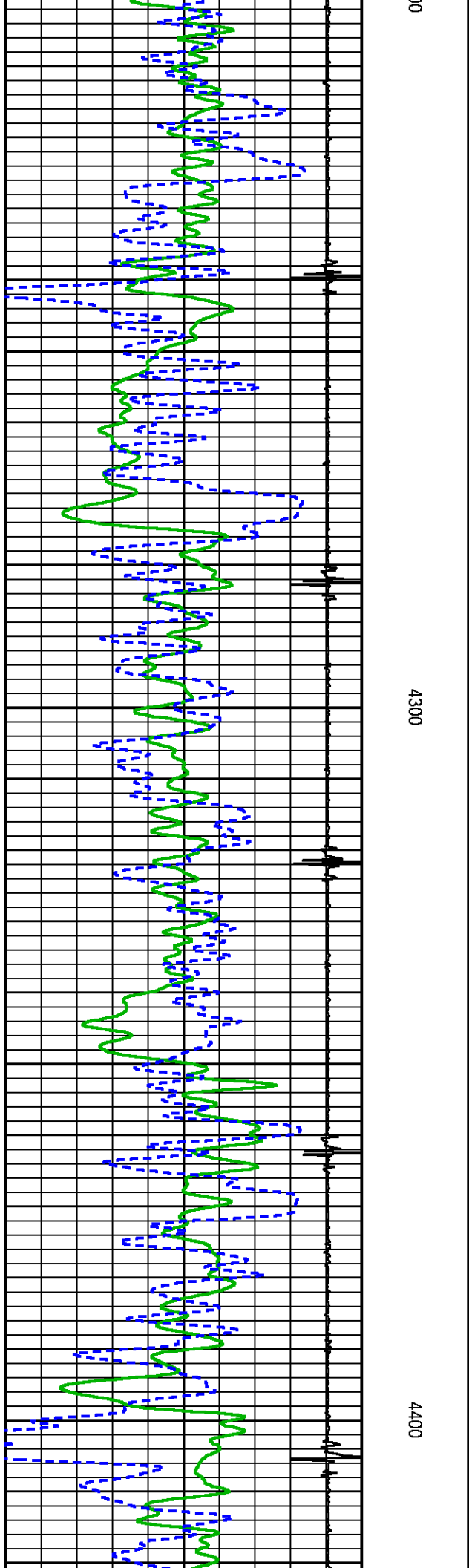
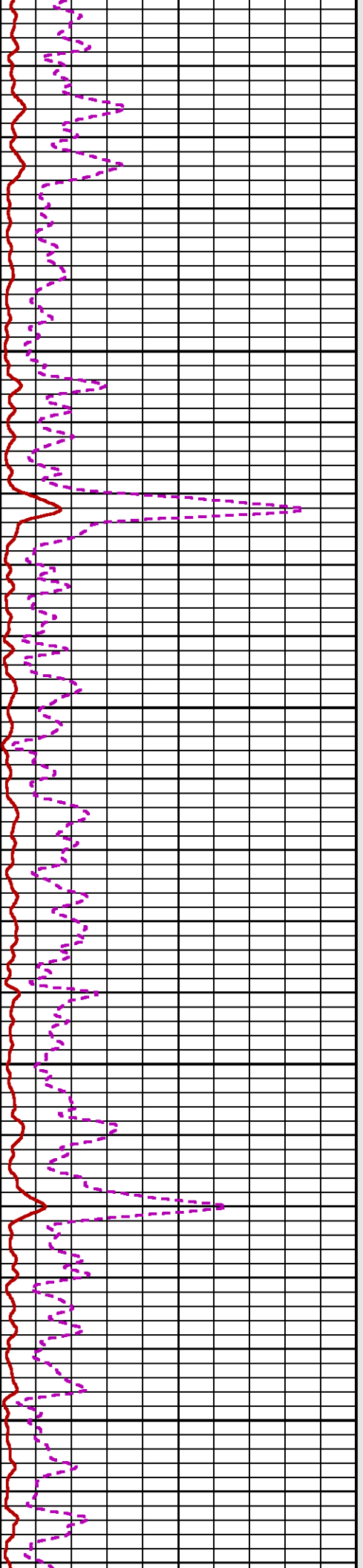
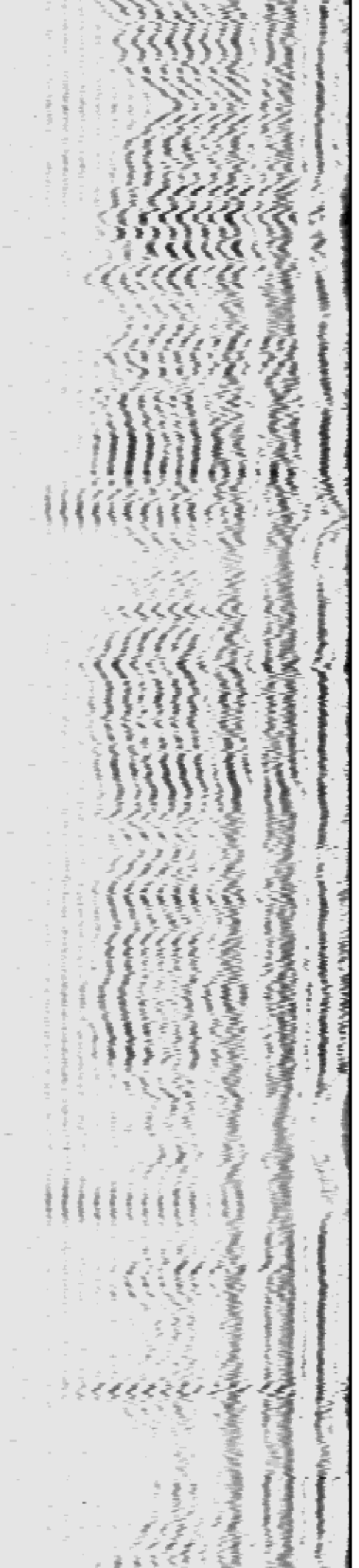


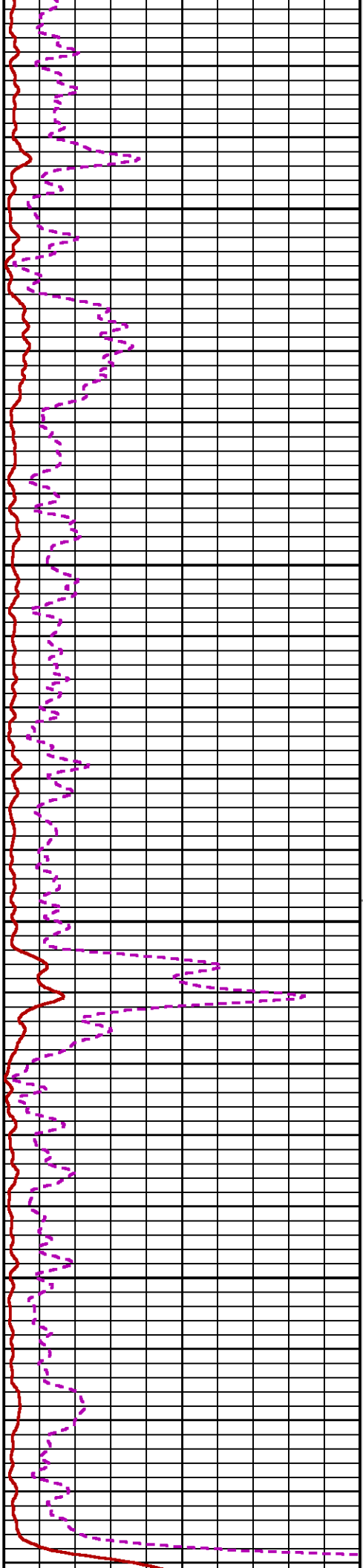
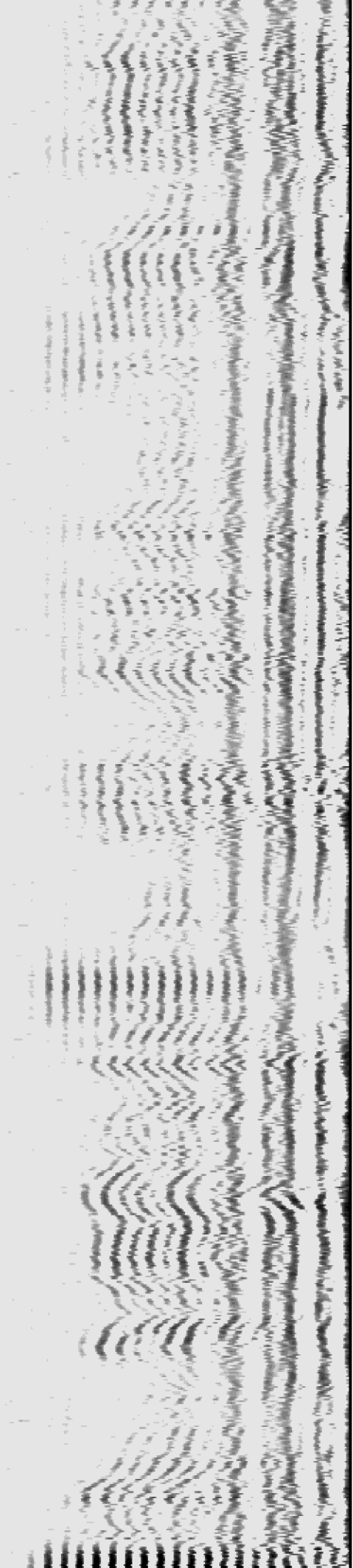
3800

3900



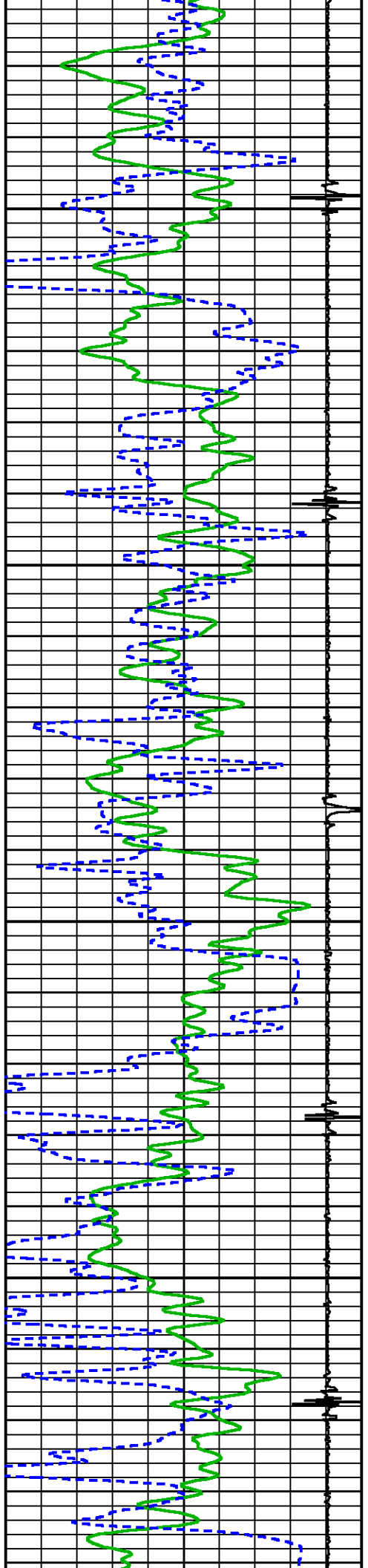


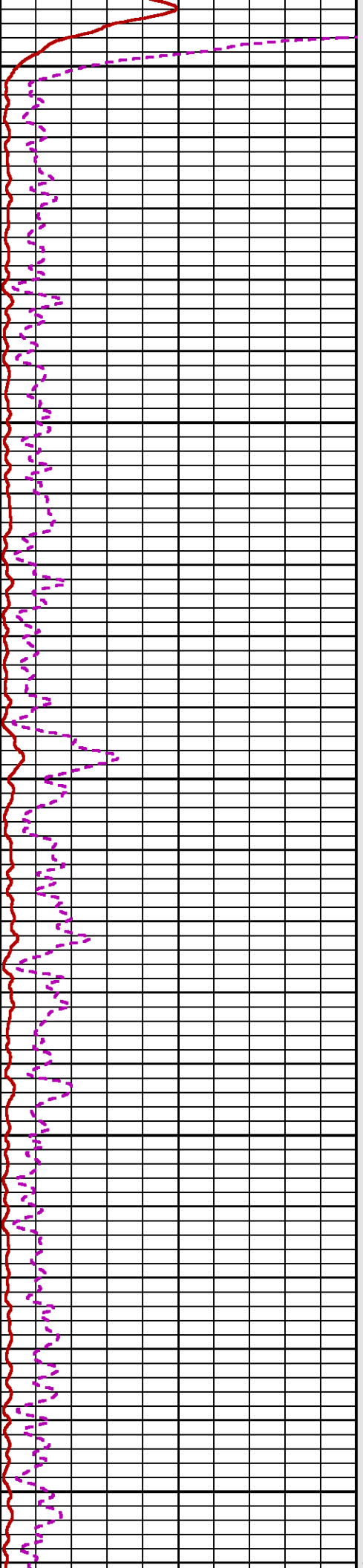
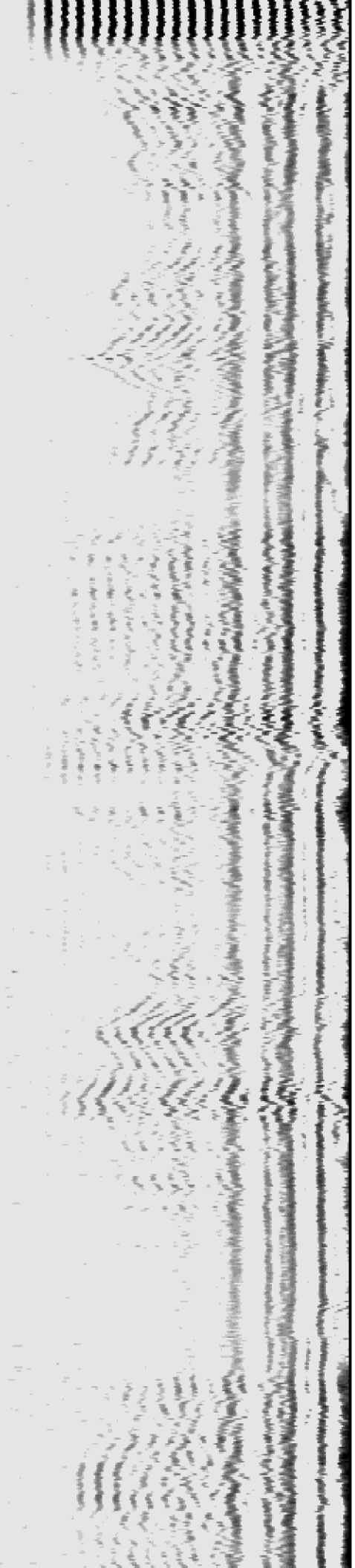




4500

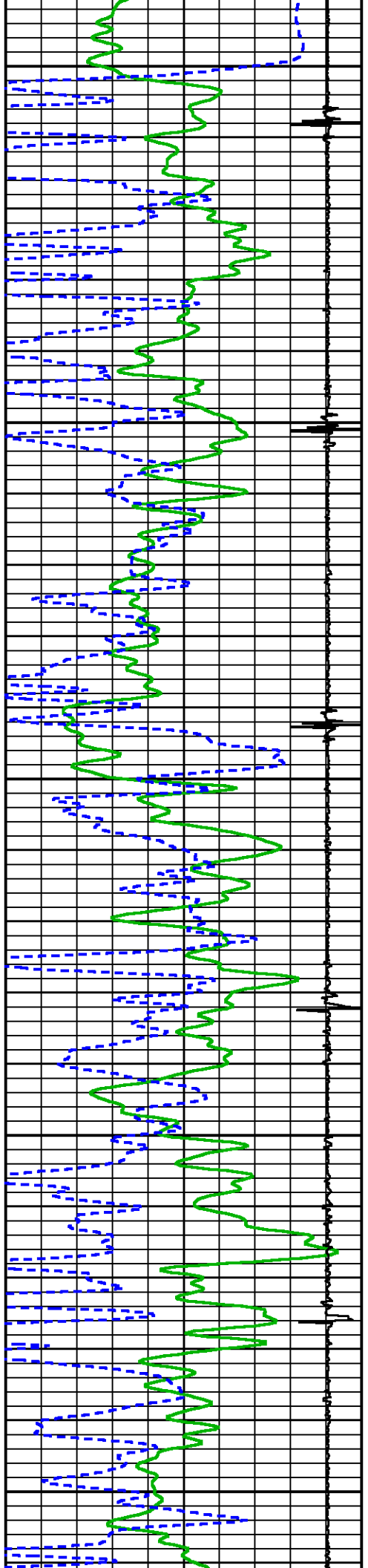
4600



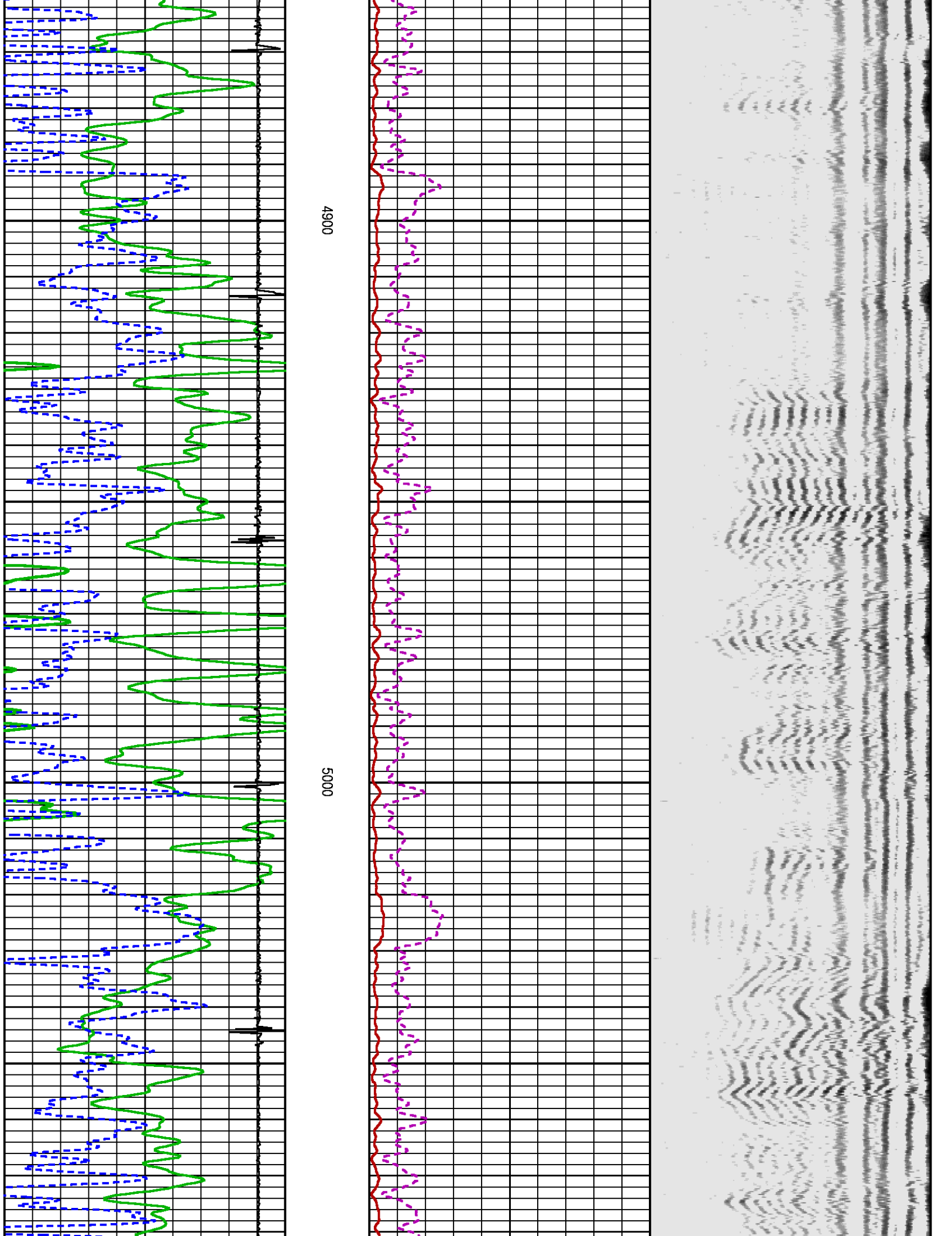


4700

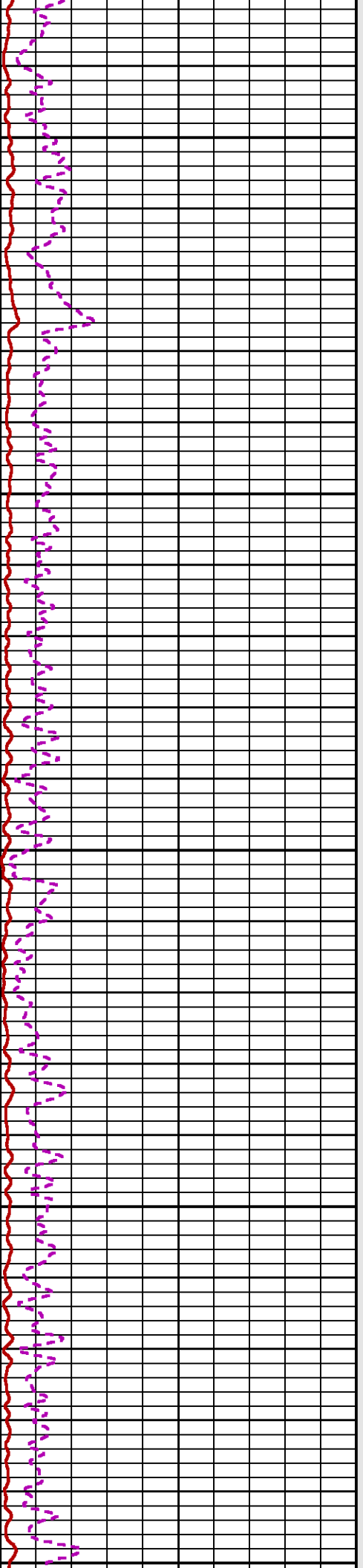
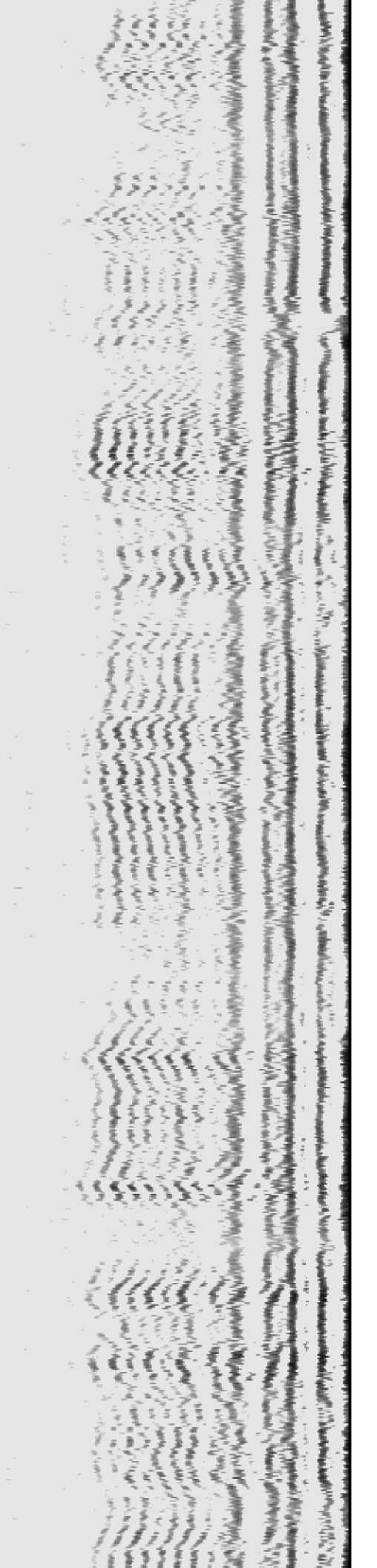
4800







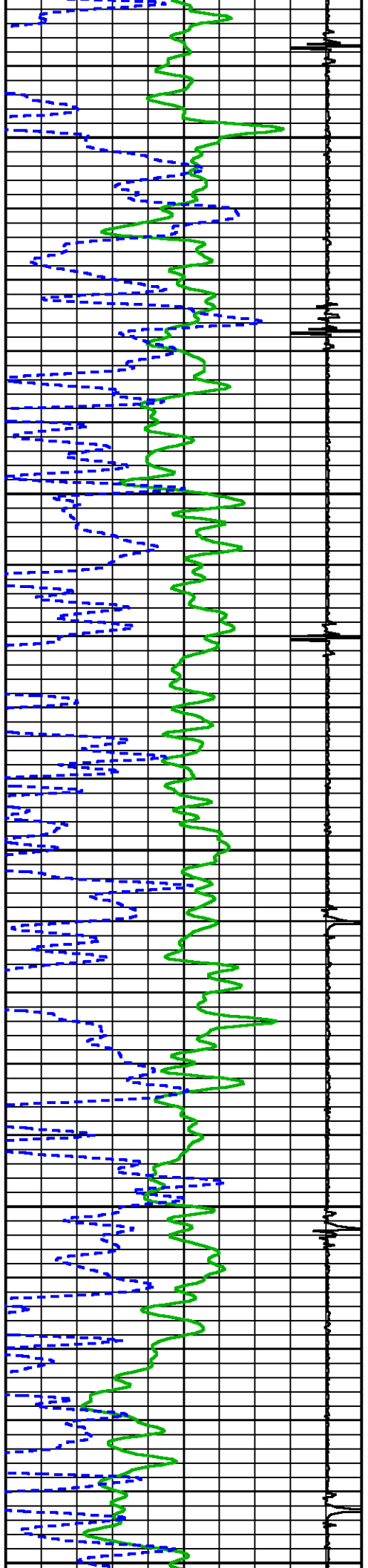


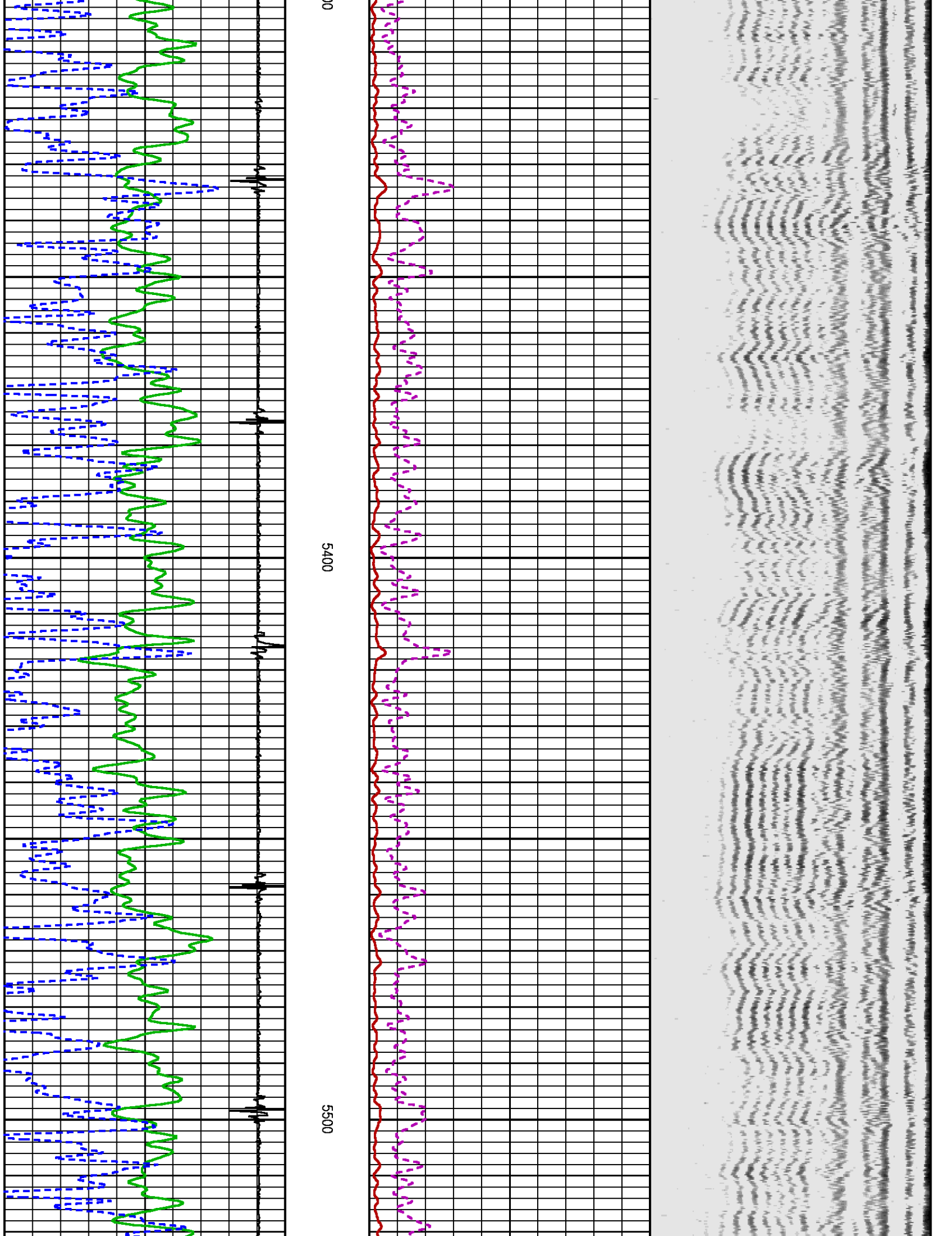


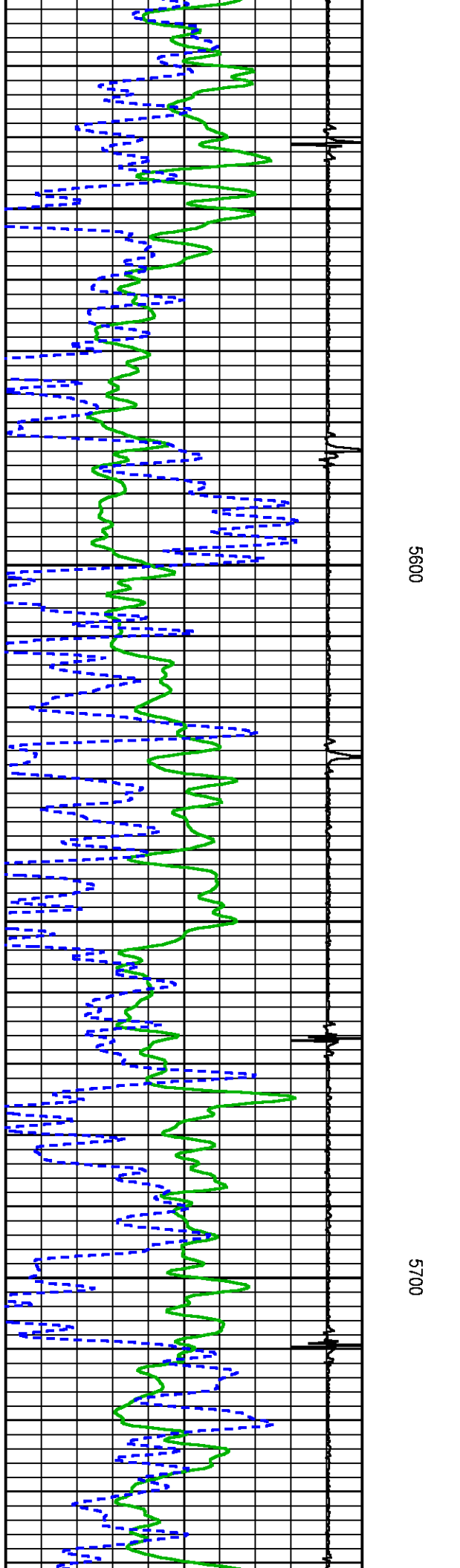
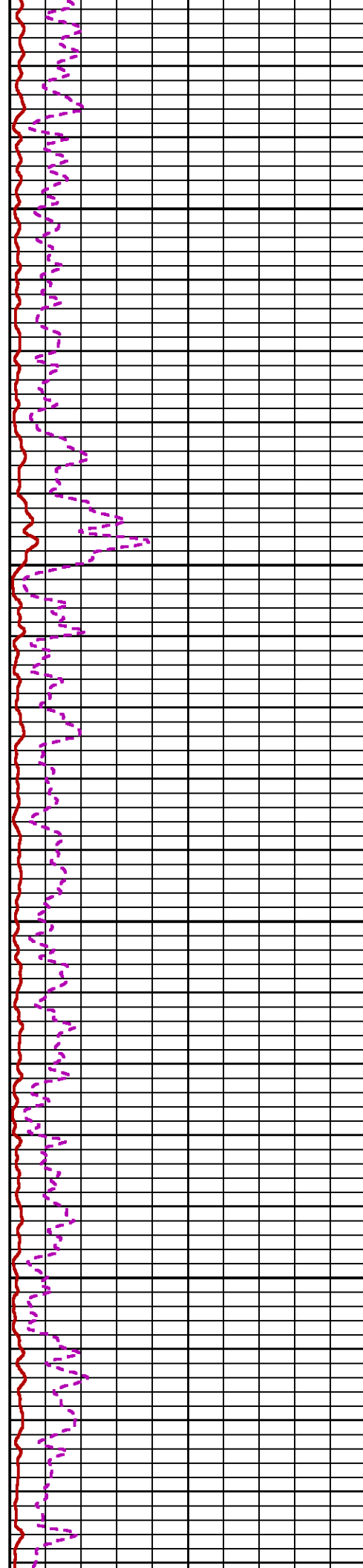
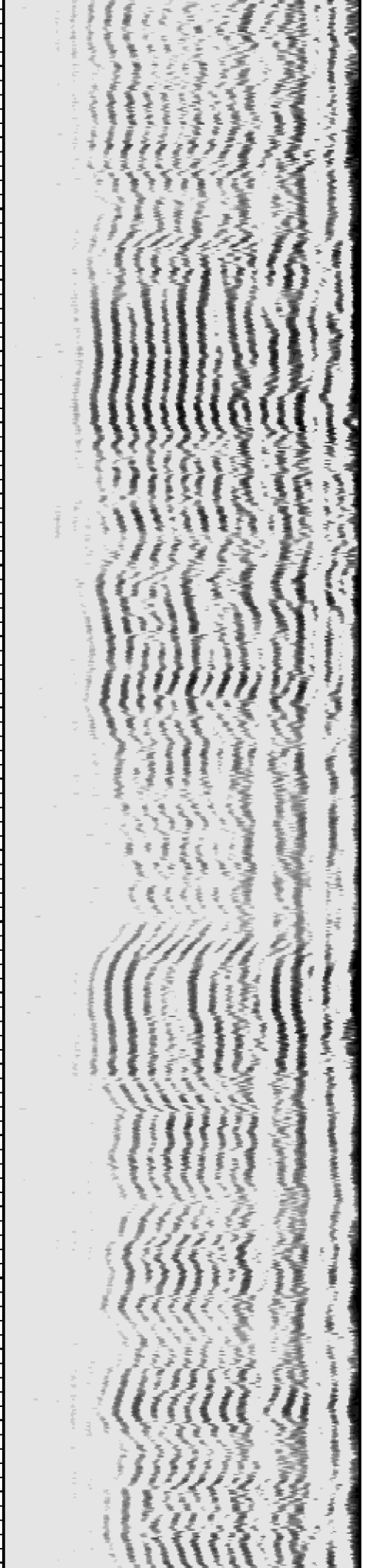
5100

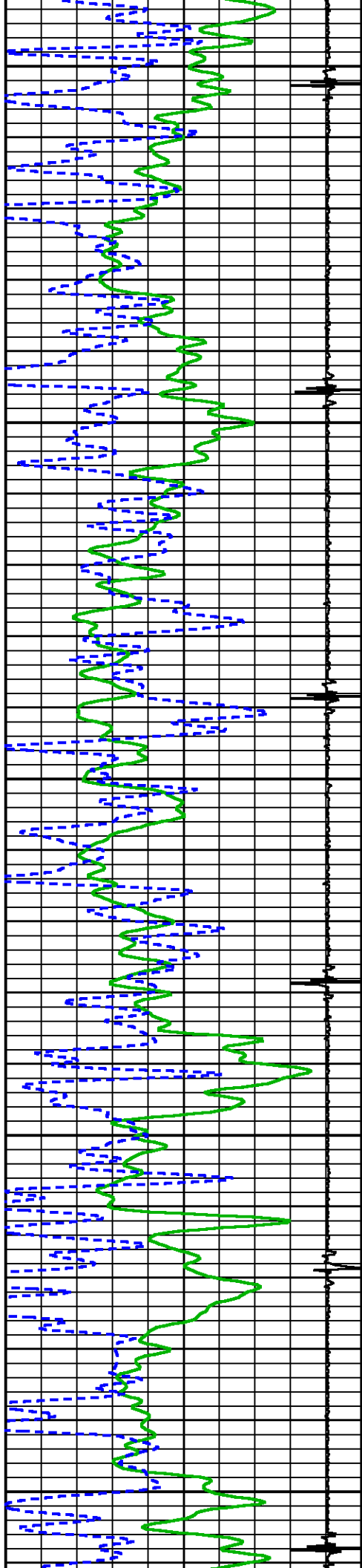
5200

5300



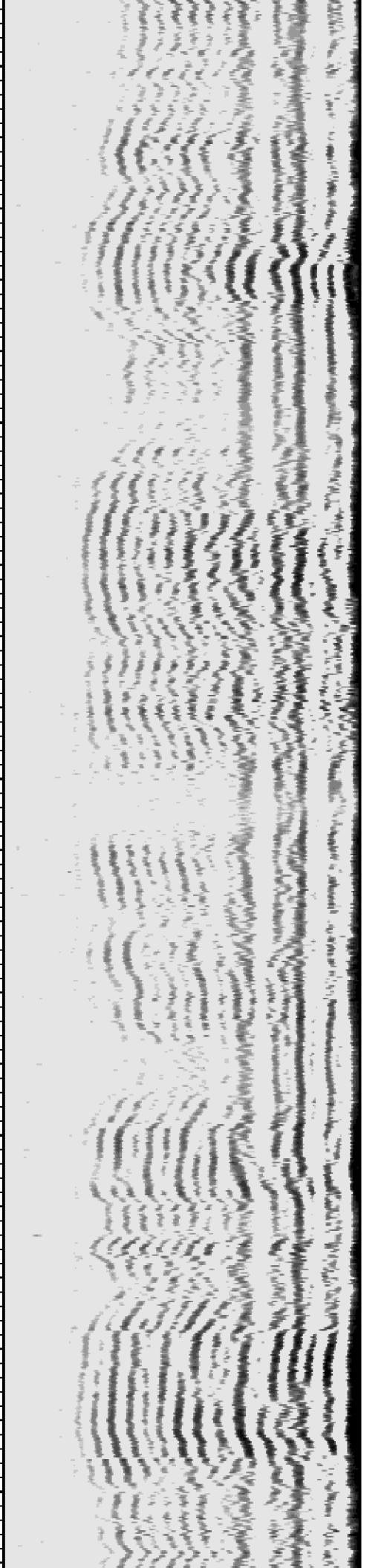
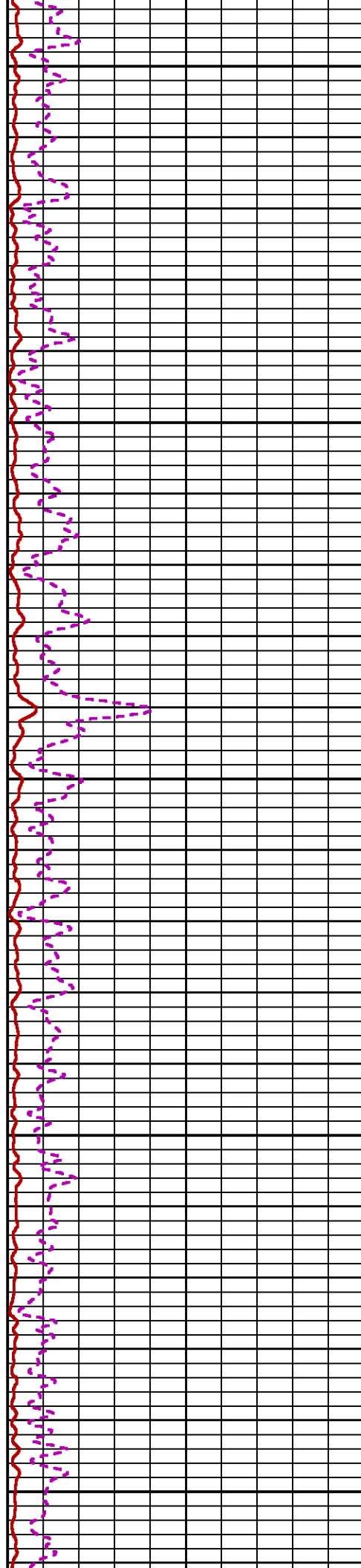


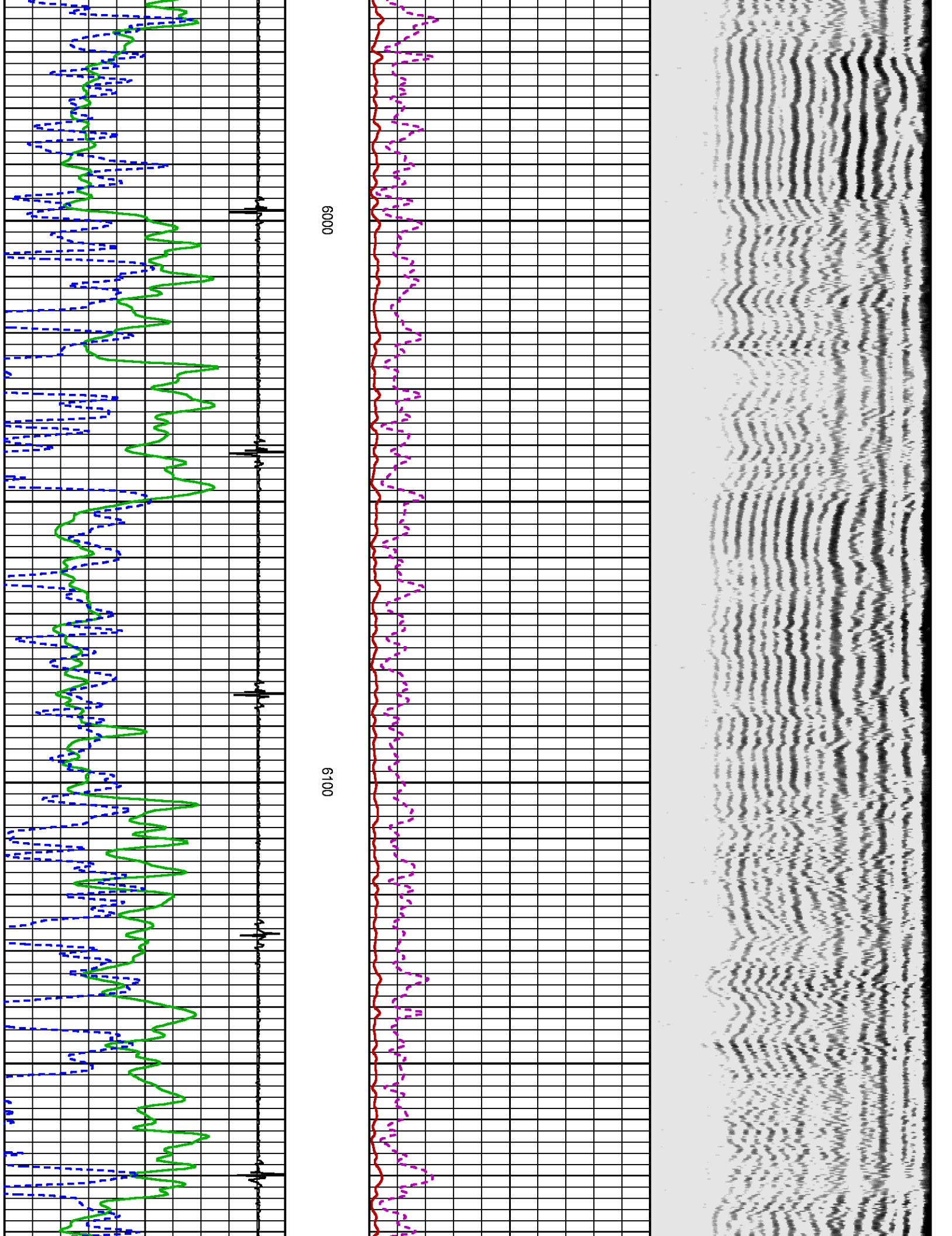




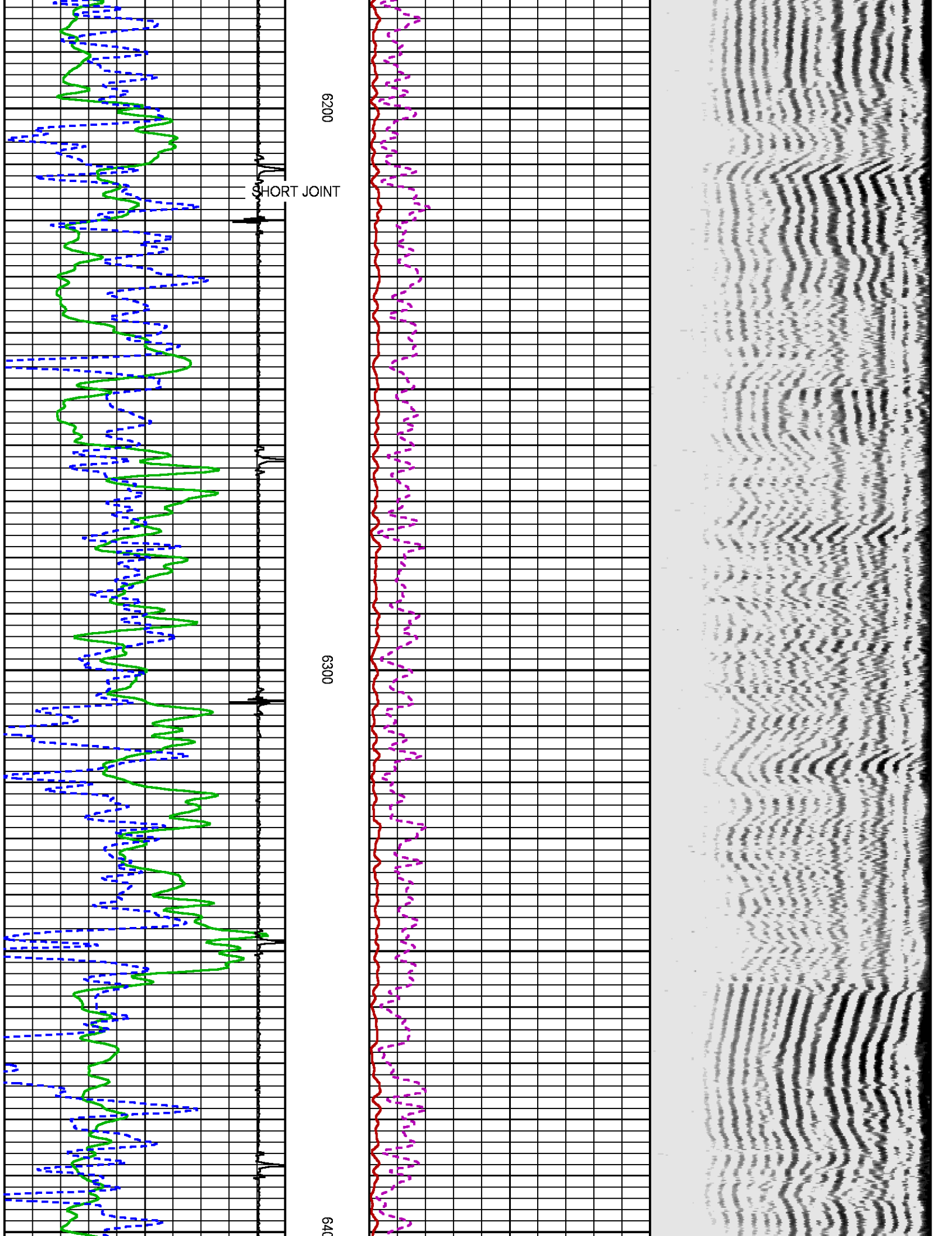
5800

5900

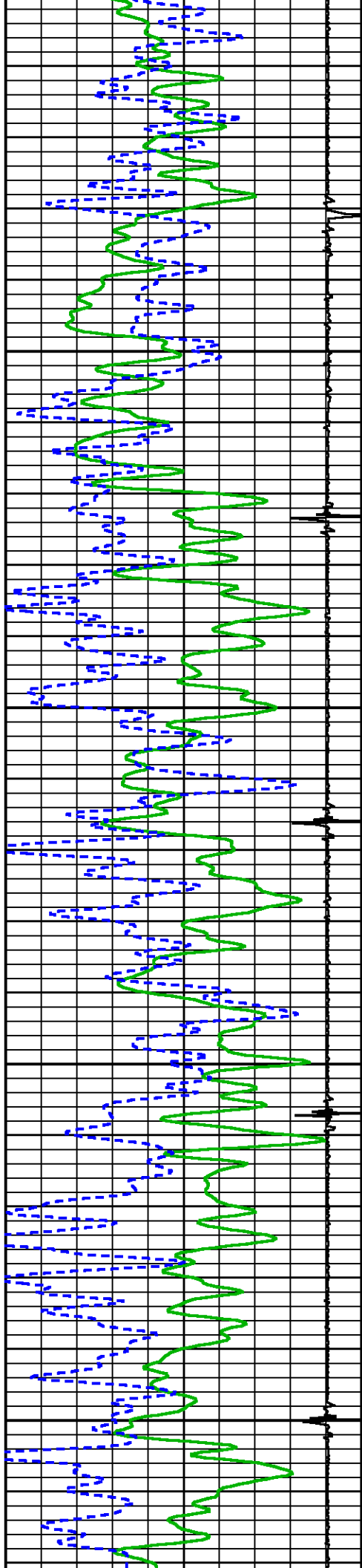




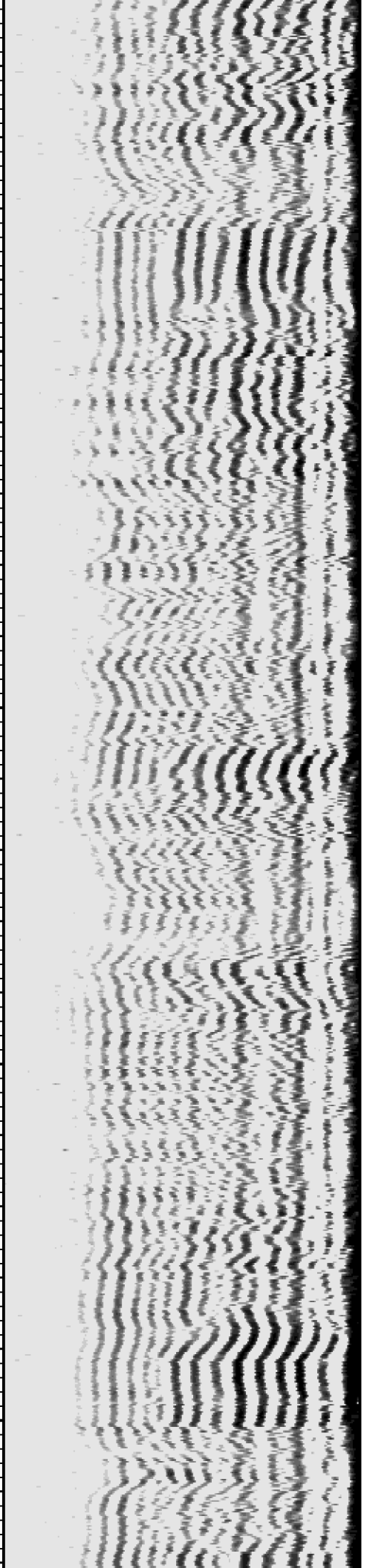
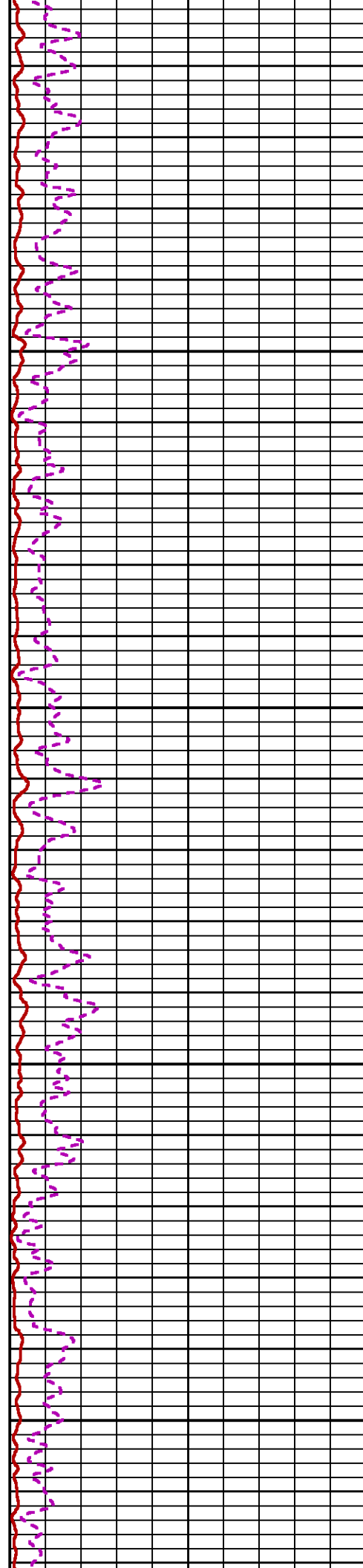


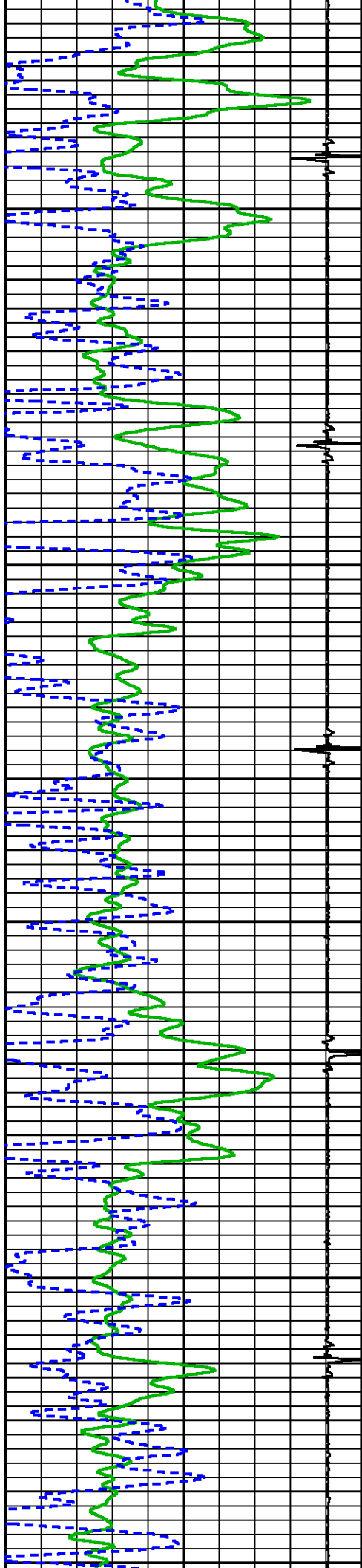






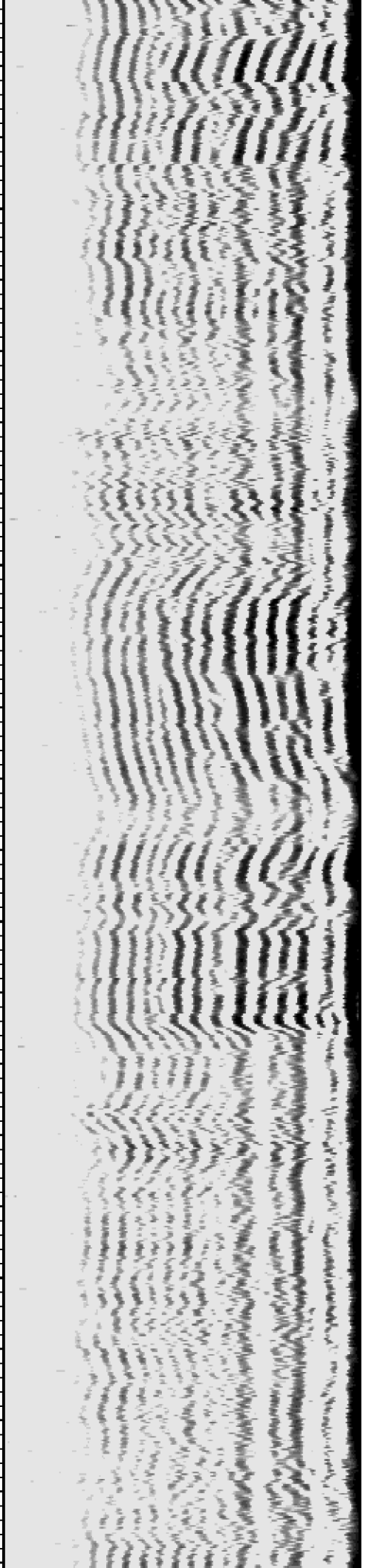
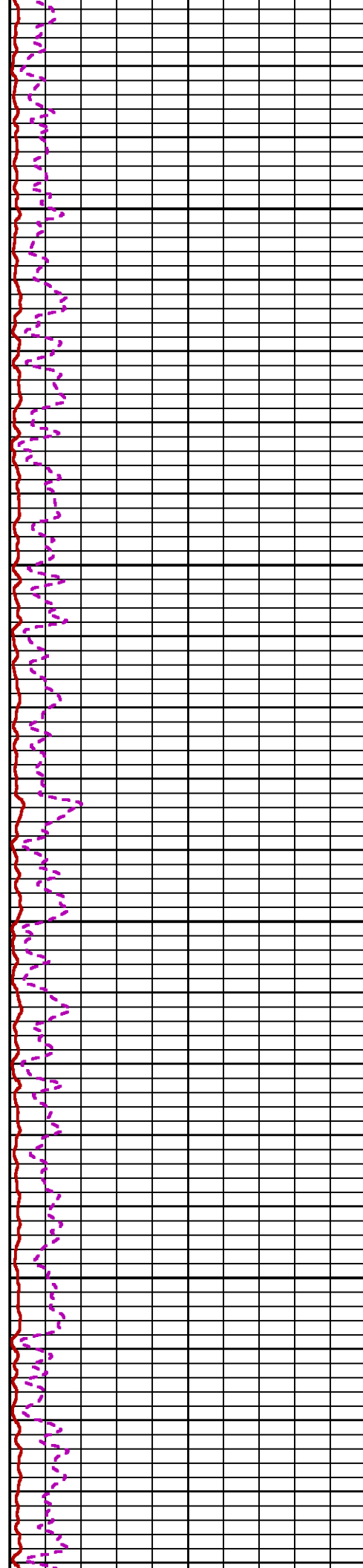
0099 6500 0059

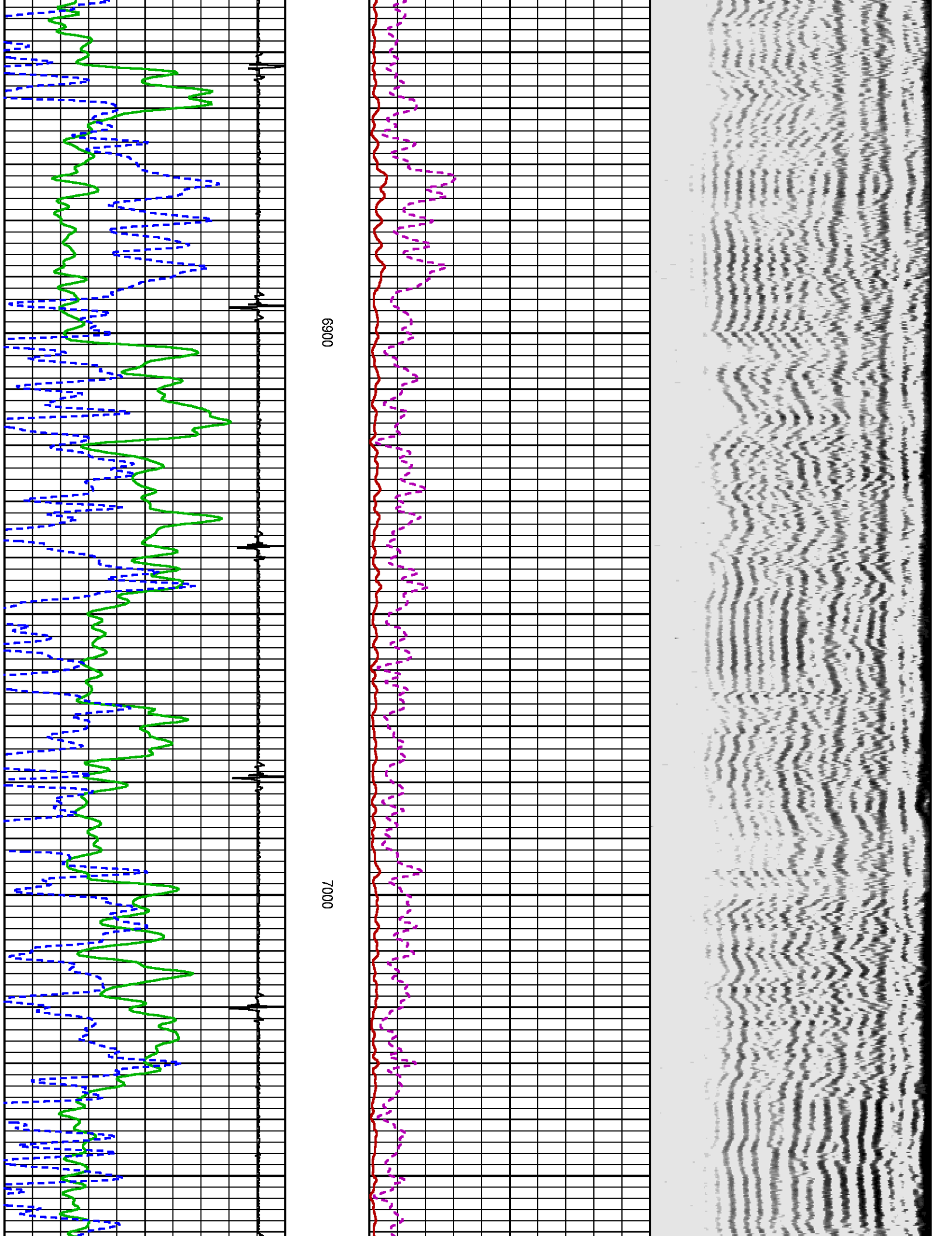


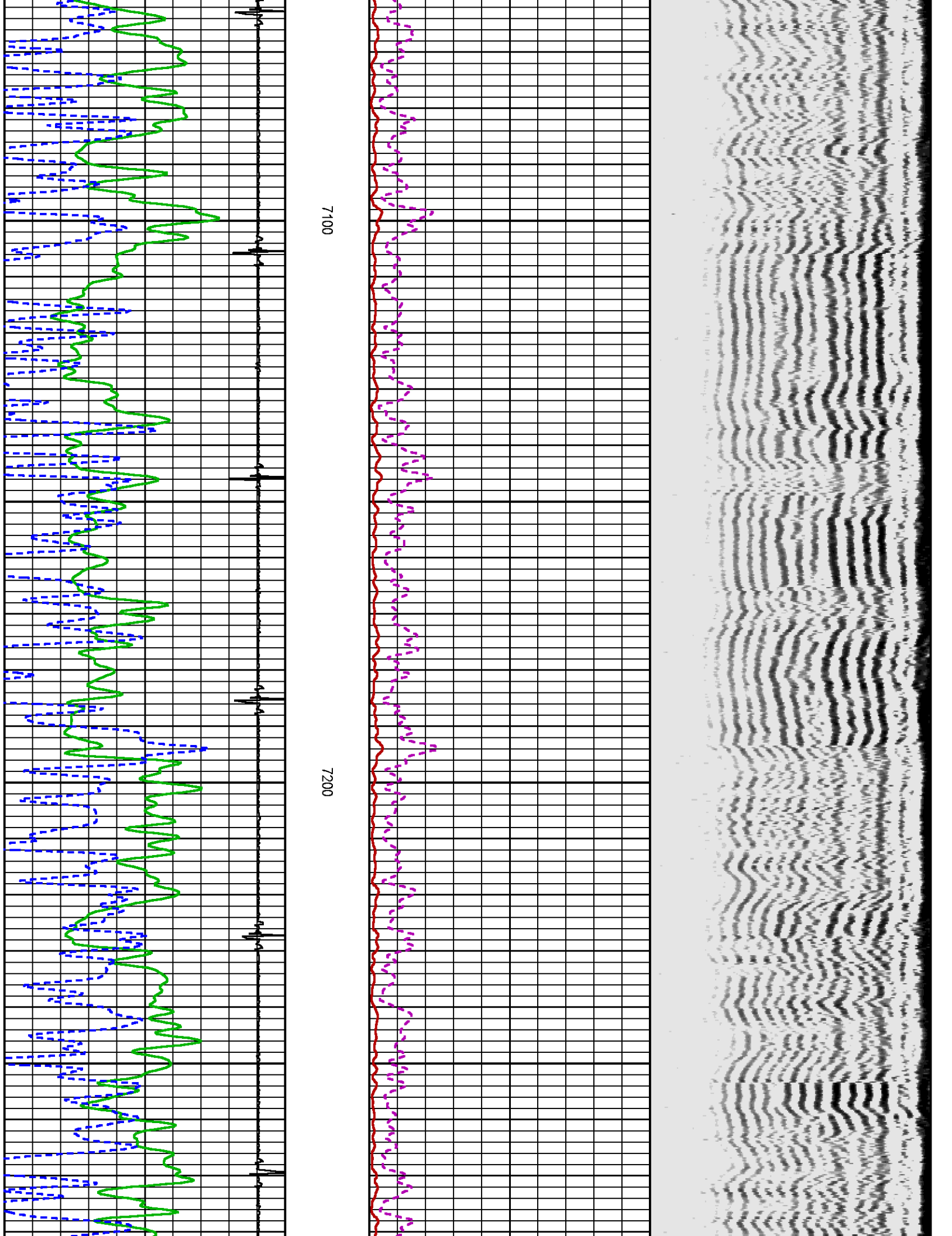


6700

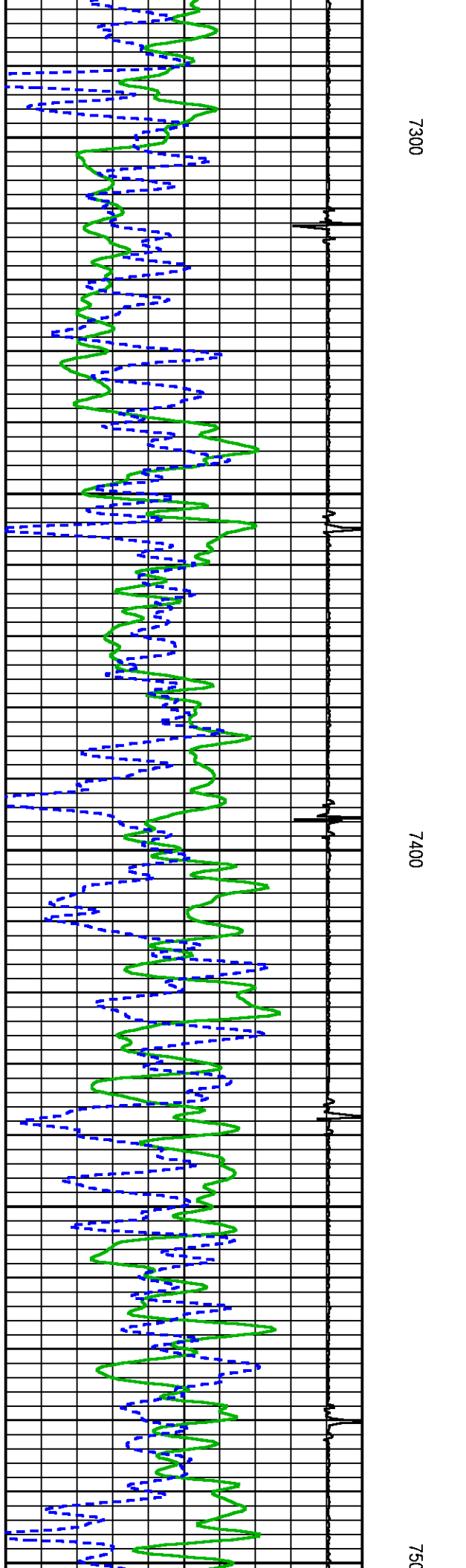
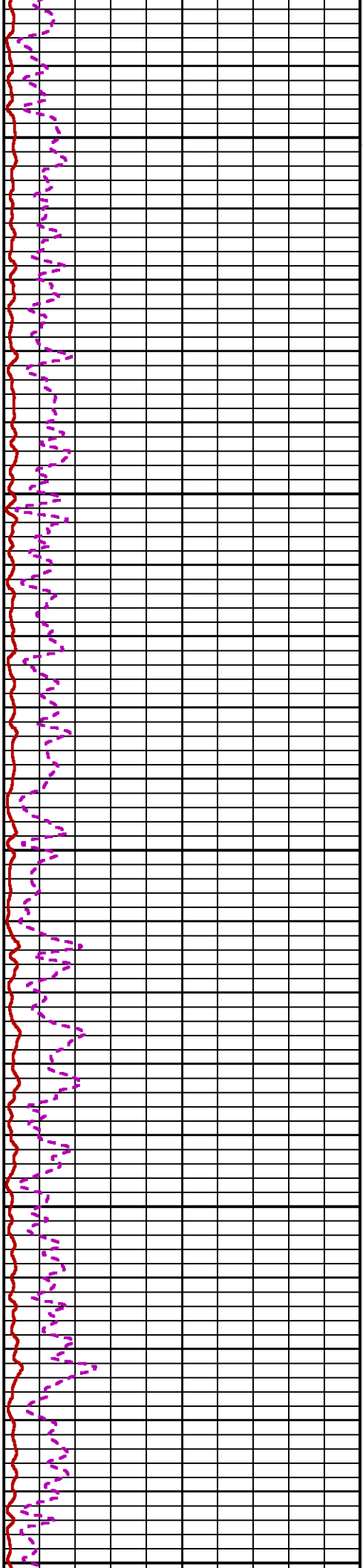
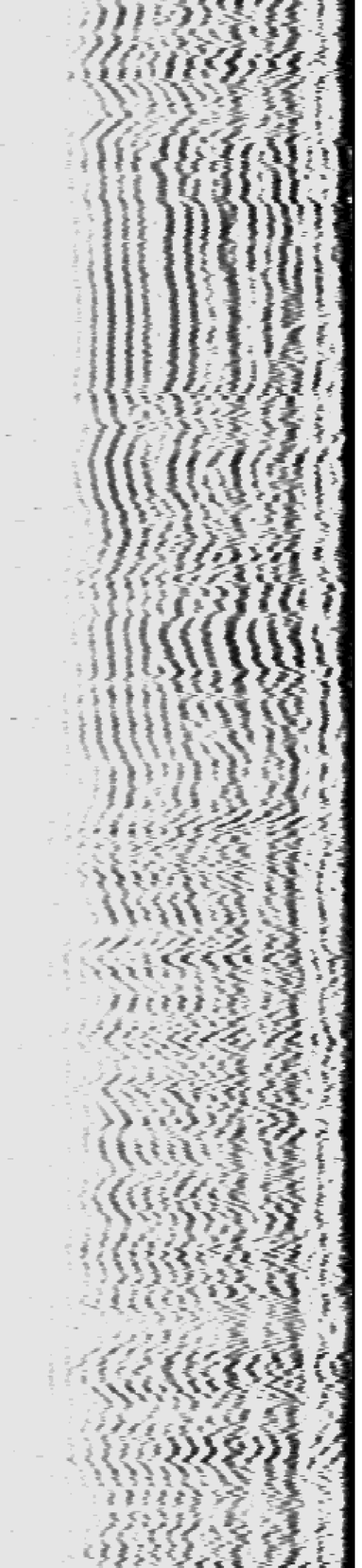
6800

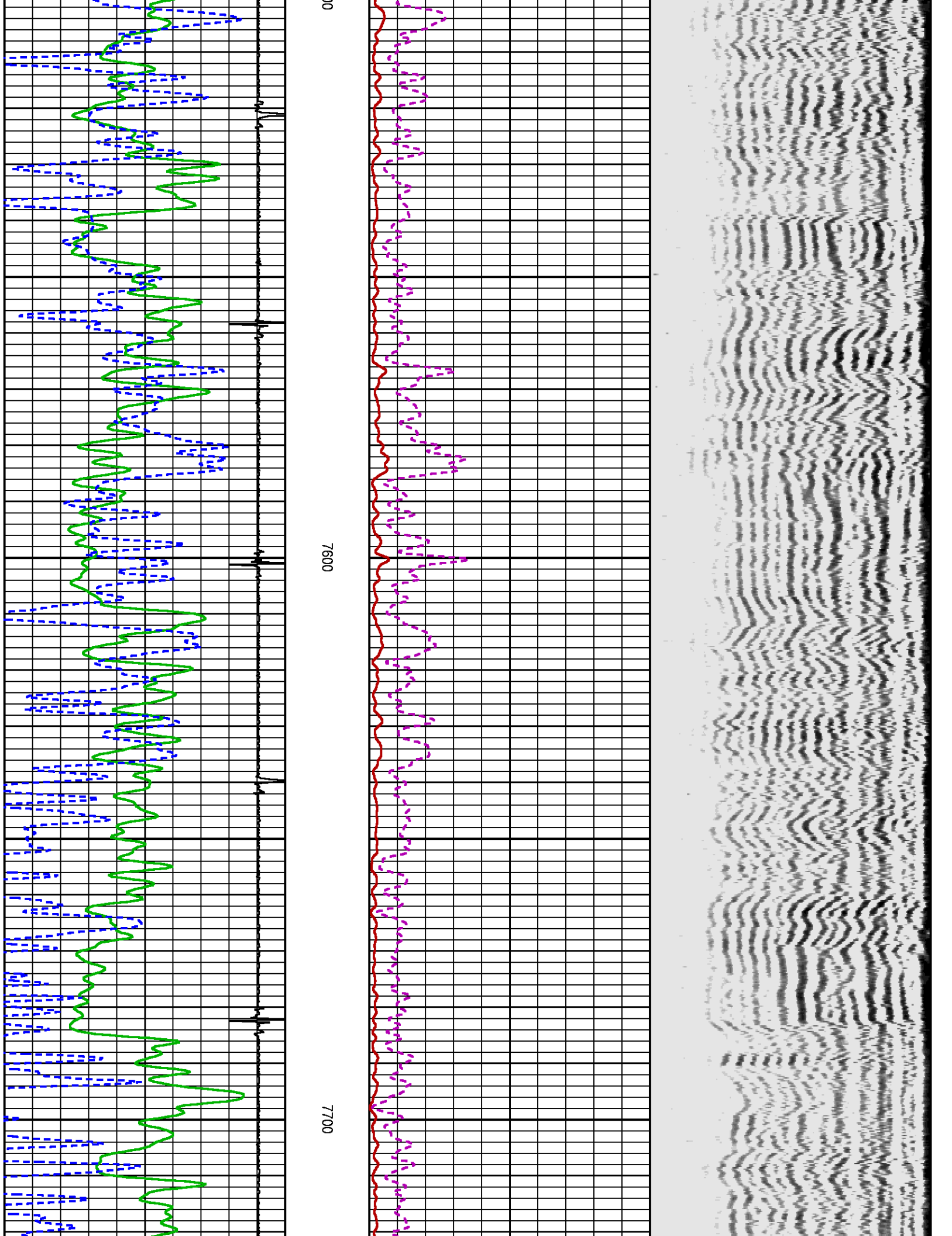




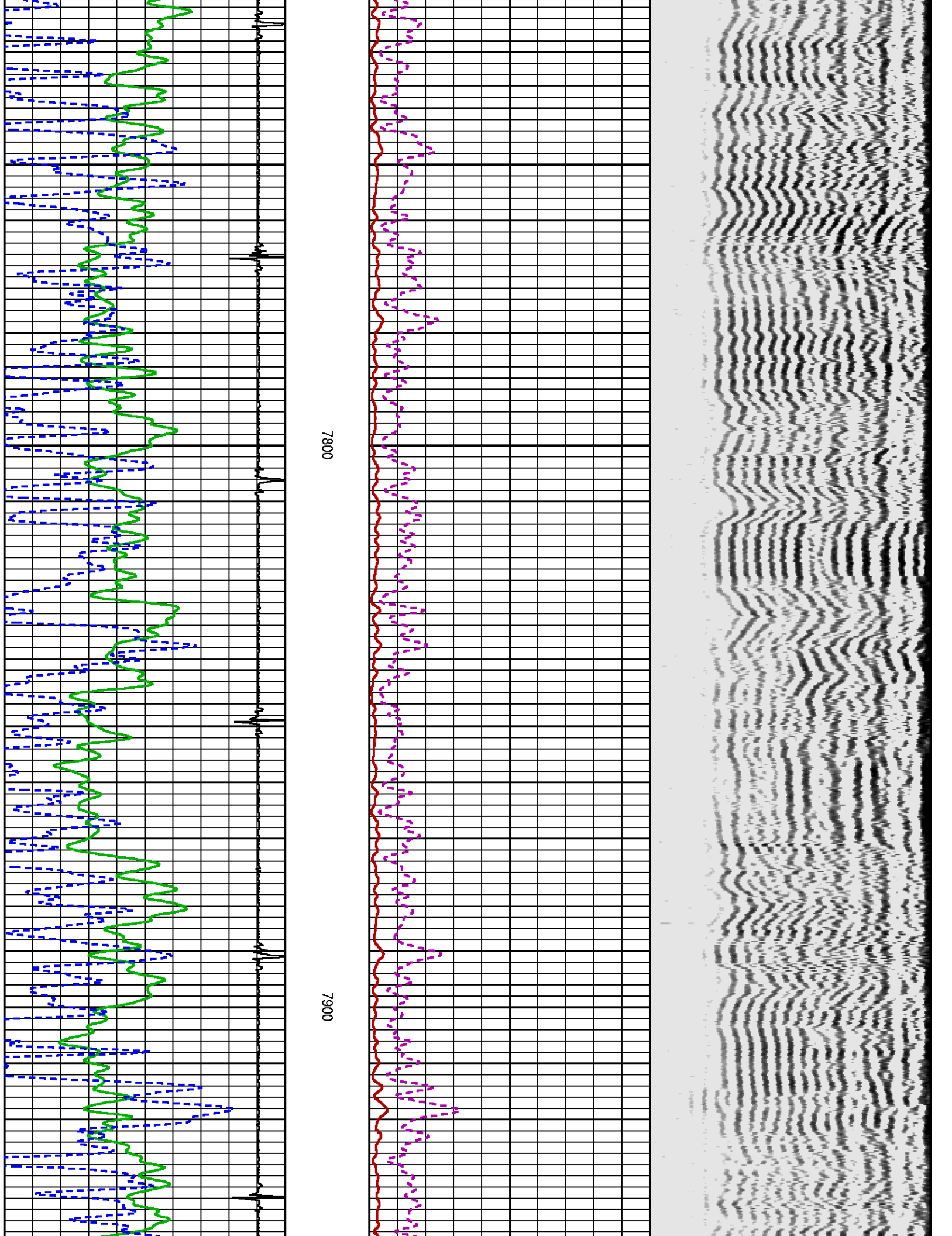


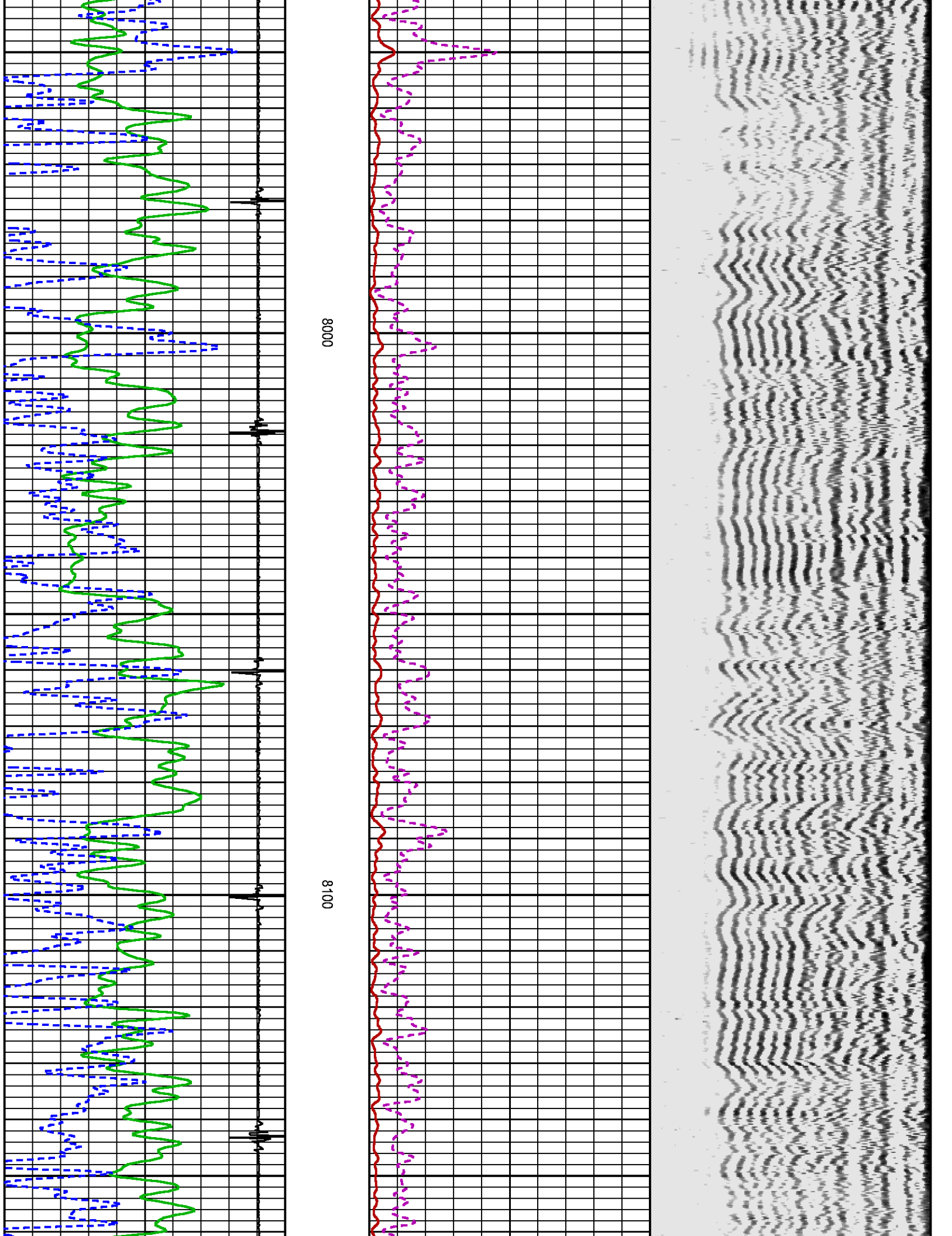


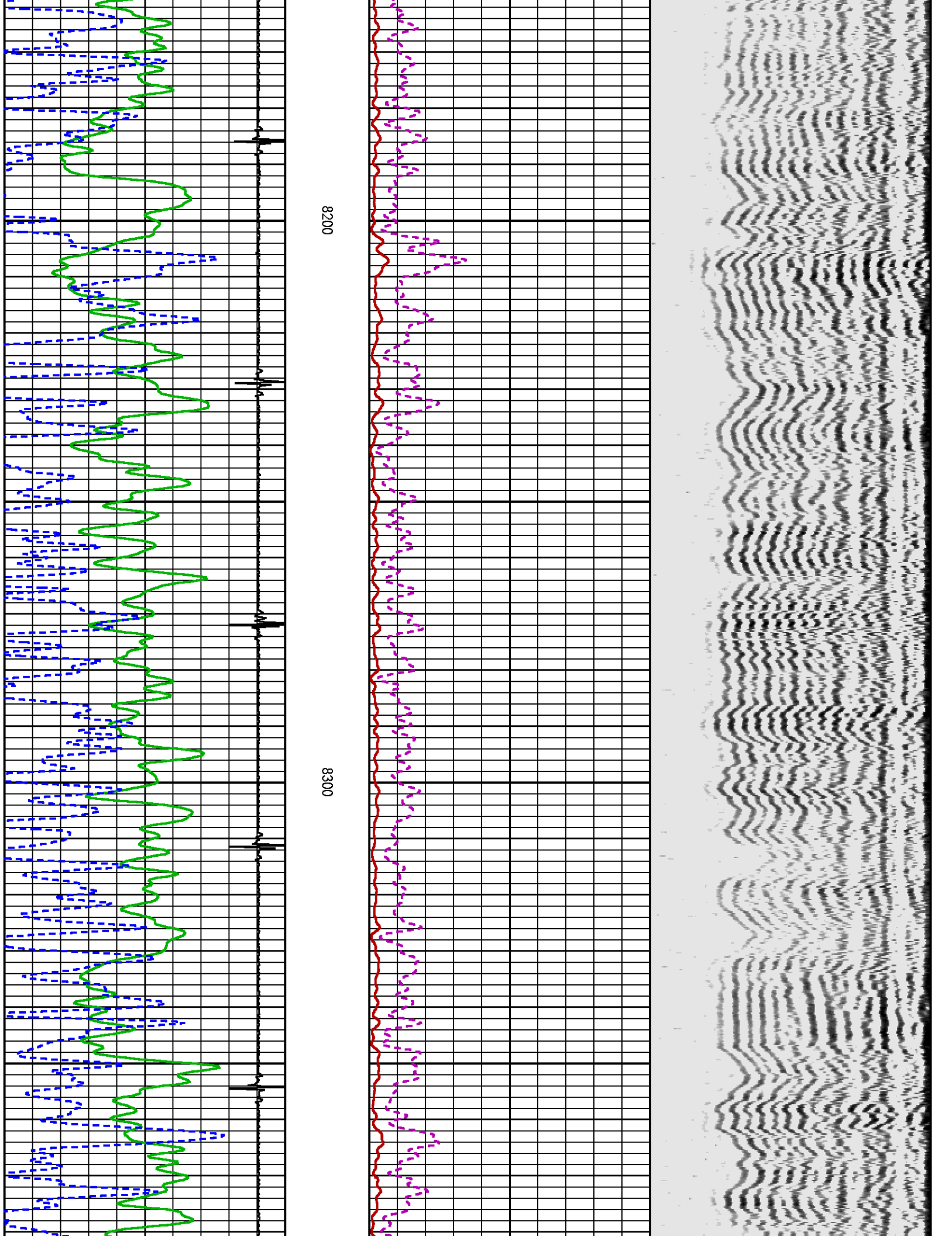


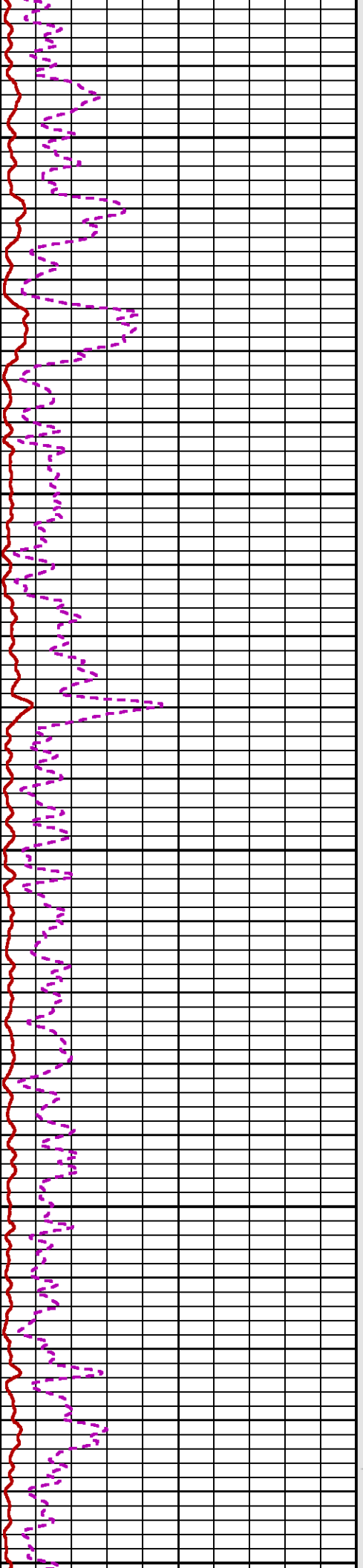
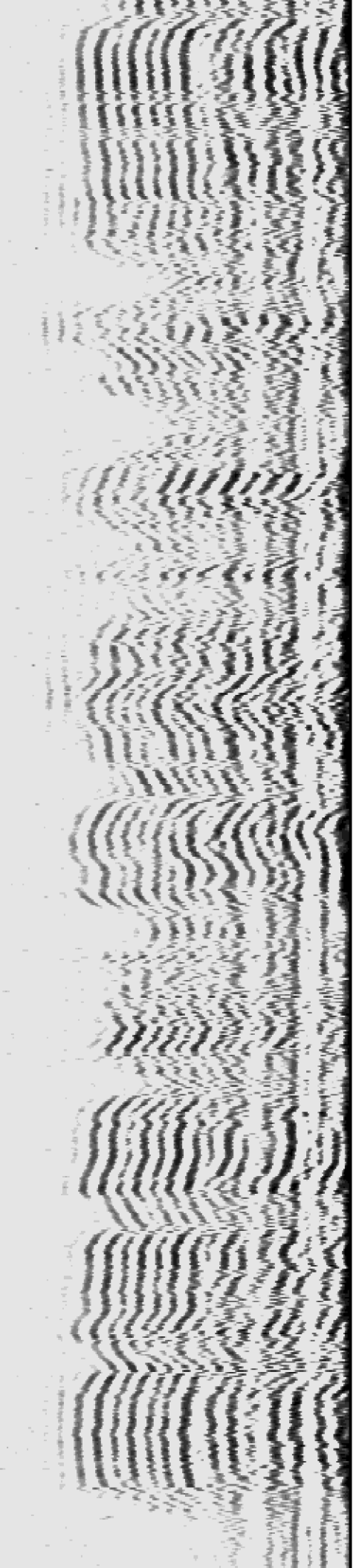








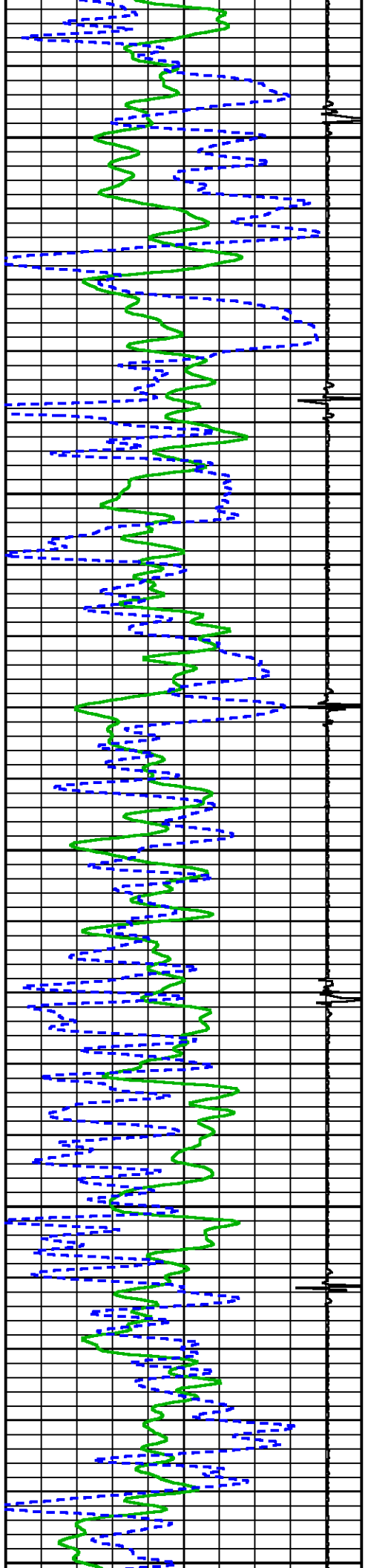




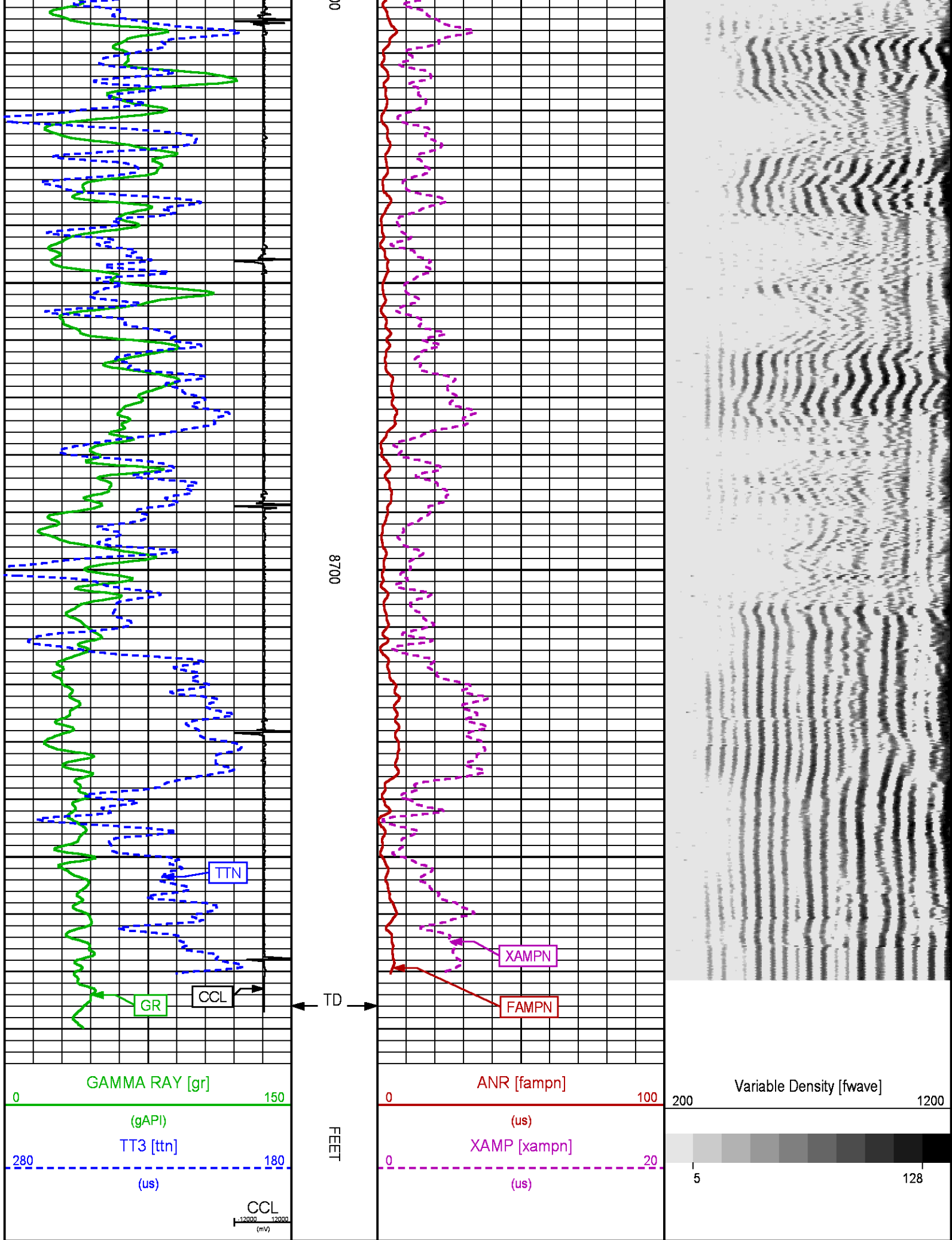
8400

8500

8600







## REPEAT 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: Wed Mar 2 08:17:00 2016

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH105968/n012g01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 8530.750 ft BOTTOM DEPTH: 8786.000 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*)	186	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	177	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*)	-70	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	Mar 2 08:01:52 2016	CASING COLLAR LOCATOR
F1:FAMPN	Mar 2 08:01:52 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Mar 2 08:01:52 2016	FAR WAVE FORM
F1:GR	Mar 2 08:01:52 2016	GAMMA RAY
F1:TTN	Mar 2 08:01:52 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Mar 2 08:01:52 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

### CURVE MEASURE POINT OFFSET

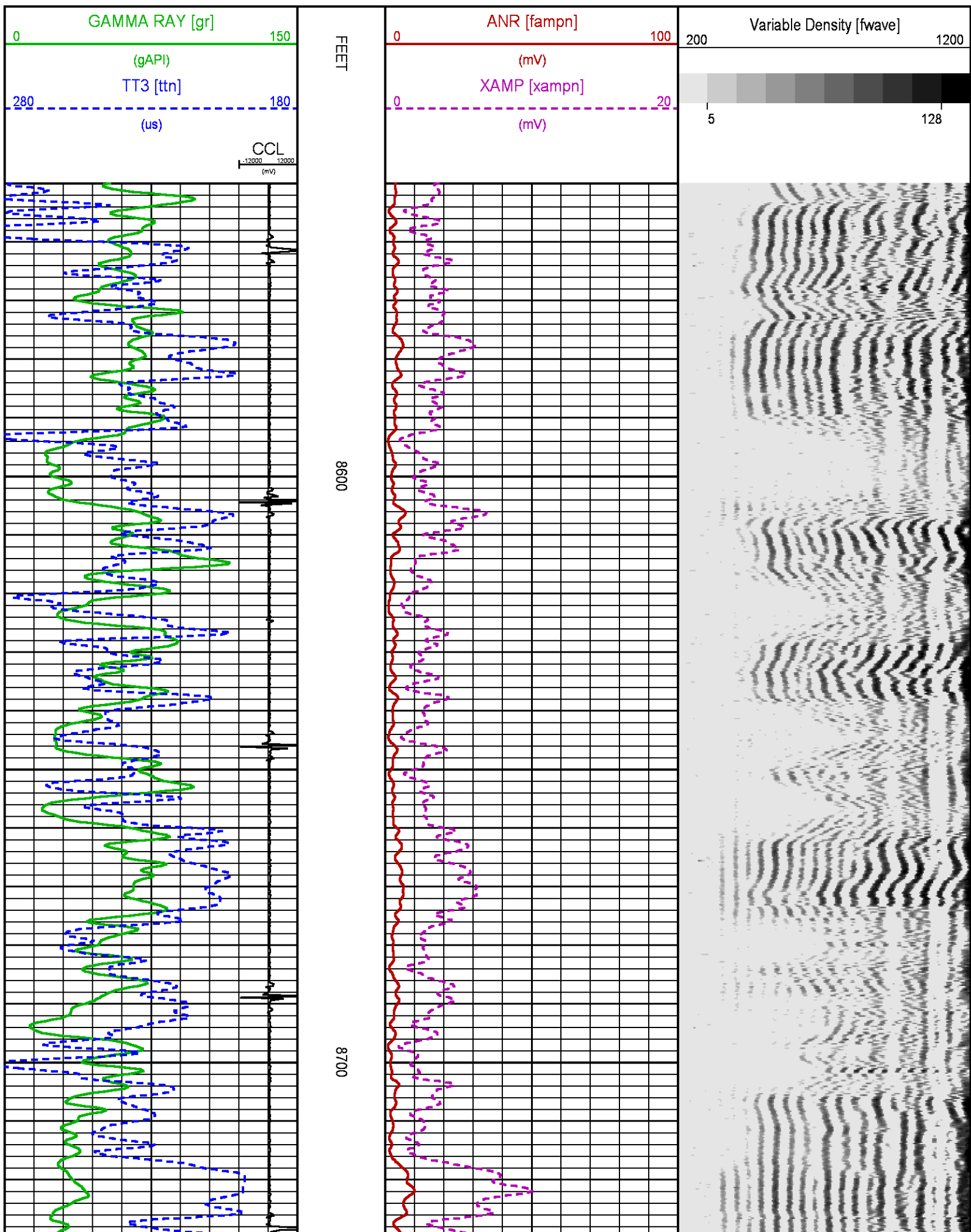
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

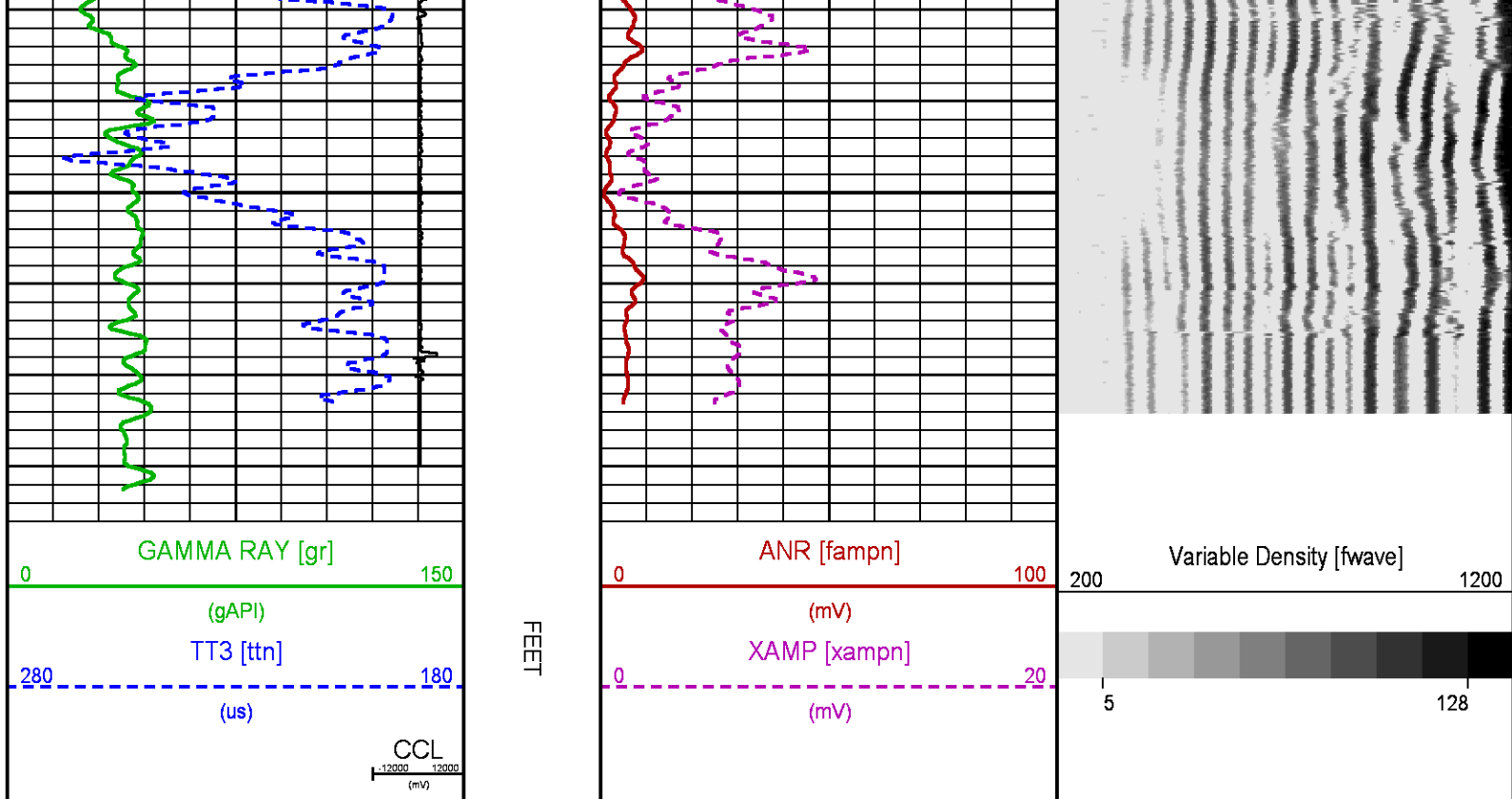
Presentation : cpu100:/dat1a/CH105968/14A1\_CBL\_REPEAT.fvpdf [5"/100' Scale]  
Plot Interval : 8550 - 8785 Feet

Data File 1 : F1 : cpu100:/dat1a/CH105968/14A1\_CBL\_REPEAT.xtf  
Created On : Mar 2 08:01:52 2016  
Company : CAERUS OPERATING LLC  
Well : PUCKETT 14A-1  
Field : GRAND VALLEY



Field : GRAND VALLEY  
File Interval : 8519.5 - 8786 Feet  
OCT : n012g





## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH105968/n012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Mon Feb 29 08:05:30 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)	1.99	2.61	2.20	2.44	2.40	2.56	2.46	2.31	2.48	5.20	-0.09
AMP FLUID (mV)	81	81	82	82	82	80	79	79	79	109	85
TT (us)	217	217	216	216	217	217	217	217	218	324	217
M FACTOR	1.26	1.27	1.25	1.26	1.25	1.29	1.31	1.31	1.30	1.44	1.17

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Wed Mar 2 07:31:57 2016

DAYS SINCE CAL: 1

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.64	-0.33	-0.21	-0.16	-0.13	-0.04	-0.25	-0.20	0.14	0.66	-0.03
AMP AIR	1.29	1.75	1.54	1.43	1.67	1.61	1.83	0.96	0.73	1.40	97.84

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
1.17	0.00	1.02

### GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871506 DATE/TIME PERFORMED: Mon Feb 29 08:10:02 2016

UNIT #: 3880TA HL6670 CALB JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	47.51	208.62	161.1	0.931	44.23	194.23	150

### GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11871506 DATE/TIME PERFORMED: Mon Feb 29 08:11:15 2016

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	49.20	210.93	0.931	45.81	196.39	150.58
						140.00 160.00

### TEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11871506 DATE/TIME PERFORMED: Sun Nov 15 14:02:37 2015

UNIT #: 3880TA HL6670

	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/CH105968/CBL-tdg

A3 CABLEHEAD

18.85'



RADIAL BOND TOOL

Diameter : 2.75"  
Length : 11.17'  
Weight : 126 lbs  
Series : 1426XA  
Mnemonic : RAL

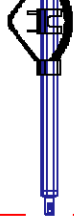
Measure Point: 4.21': NEAR RCVR  
Measure Point: 3.25': FAR RCVR

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: 18.85'  
TOTAL WEIGHT: 227 lbs  
MAX DIAMETER: 0'4.00"

	COMPANY	<u>CAERUS OPERATING LLC</u>		FILE NO:	<u>CH105968</u>
	WELL	<u>PUCKETT 14A-1</u>		API NO:	<u>05045226160000</u>
	FIELD	<u>GRAND VALLEY</u>			
	COUNTY	<u>GARFIELD</u>	STATE	<u>COLORADO</u>	
	LOCATION:	SHL: 304' FEL & 1095' FSL, 2 7S 97W BHL: 713' FEL & 1235' FSL, 1 7S 97W		ELEVATIONS:	SEC 1 T 7S R 97W PAD: MESA P2-797 RIG: H&P 330
	SEC <u>1</u>	TWP <u>7S</u>	RGE <u>97W</u>	KB 8453.8 FT DF GL 8423.8 FT	DATE <u>02-Mar-2016</u>