



|  |  |   |  |
|--|--|---|--|
| FILE NO:<br>CH096703   |  | COMPANY<br>WPX ENERGY                         |  |
| API NO:<br>05103119830000  |  | WELL<br>FEDERAL RGU 313-25-198                |  |
| Ver. 4.01<br>SEC 25 T1S R98W<br>42-26-198<br>H&P 318                                   |  | FIELD<br>SULPHUR CREEK                        |  |
| LOCATION:<br>SHL: 2454/FNL 901FEL SEC26 T1S R98W<br>BHL: 1631FSL 265FWL SEC25 T1S R98W |  | COUNTY<br>RIO BLANCO                          |  |
| PERMANENT DATUM<br>LOG MEASURED FROM<br>DRILL. MEAS. FROM                              |  | STATE<br>COLORADO                             |  |
| GL<br>KB<br>KB   |  | ELEVATION<br>24 FT<br>6622 FT<br>6622 FT      |  |
| SEC 25<br>TWP 1S<br>RGE 98W  |  | OTHER SERVICES<br>RPM                         |  |
| DATE<br>25-May-2015  |  | ELEVATIONS:<br>KB 6646 FT<br>DF<br>GL 6622 FT |  |
| RUN<br>1   |  | TRIP<br>1                                     |  |
| SERVICE ORDER<br>US096703J   |  |   |  |
| DEPTH DRILLER<br>12686 FT  |  |   |  |
| DEPTH LOGGER<br>12714 FT   |  |   |  |
| BOTTOM LOGGED INTERVAL<br>12704 FT   |  |   |  |
| TOP LOGGED INTERVAL<br>0 FT  |  |   |  |
| TIME STARTED<br>11:30  |  |   |  |
| TIME FINISHED<br>15:30   |  |   |  |
| OPERATOR RIG TIME<br>4:00  |  |   |  |
| TYPE OF FLUID IN HOLE<br>WATER   |  |   |  |
| FLUID DENSITY<br>NA  |  |   |  |
| FLUID SALINITY<br>NA   |  |   |  |
| FLUID LEVEL<br>194 FT  |  |   |  |
| LOGGED CEMENT TOP<br>NA  |  |   |  |
| WELLHEAD PRESSURE<br>0 PSI   |  |   |  |
| MAXIMUM HOLE DEVIATION<br>NA   |  |   |  |
| NOMINAL LOGGING SPEED<br>80 F/MN   |  |   |  |
| MAX. RECORDED TEMP.<br>277 DEGF  |  |   |  |
| REFERENCE LOG<br>NONE  |  |   |  |
| REFERENCE LOG DATE<br>NA   |  |   |  |
| EQUIP. NO.<br>6685   |  | LOCATION<br>GRAND JCT                         |  |
| RECORDED BY<br>W. QUIGLEY  |  |   |  |
| WITNESSED BY<br>MR. COLT STEWART   |  |   |  |

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 |       | 0 FT | 12714 FT |

|   |
|---|
| REMARKS   |
| RUN 1 TRIP 1: LOGGED WITH ZERO PSI AT WELLHEAD        |
| BHT = 277 degF  |
| SJ = 7761' - 7784'                                    |
| THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES |
| CREW: OLSON/MOORE/QUIGLEY                             |
| RIG: H&P 318  |

| EQUIPMENT DATA |  |  |  |  |
|----------------|--|--|--|--|
|                |  |  |  |  |

| RUN | TRIP | TOOL   | SERIES NO. | SERIAL NO. | POSITION    |
|-----|------|--------|------------|------------|-------------|
| 1   | 1    | RAL    | 1426XA     | 10417452   | CENTRALIZED |
| 1   | 1    | CCL/GR | 2459XA     | 10417457   | 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: 7

Plotted: Mon May 25 16:04:30 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096703/n012e02.prm  
 LOGGING MODE: DEPTH DIRECTION: UP  
 TOP DEPTH: 30.000 ft BOTTOM DEPTH: 12729.750 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*)   | 187     | us    | TOP           | BOTTOM |
|                           | AMP WINDOW LENGTH          | 25      | us    | "             | "      |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*)     | 176     | 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

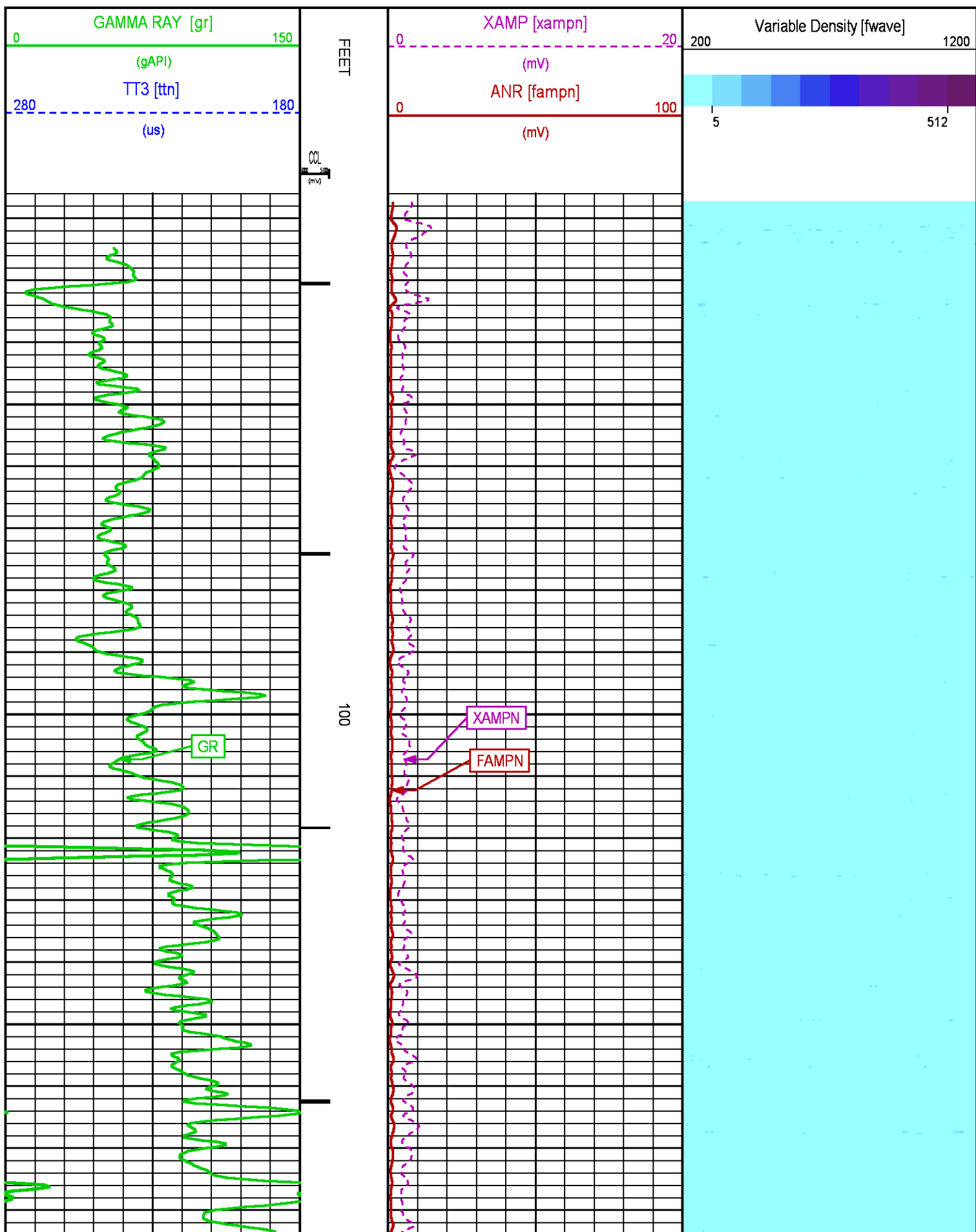
| CURVE NAME | CREATION DATE        | CURVE DESCRIPTION                             |
|------------|----------------------|---|
| F1:CCL     | May 25 12:52:45 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN   | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE   | May 25 12:52:45 2015 | FAR WAVE FORM                                 |
| F1:GR      | May 25 12:52:45 2015 | GAMMA RAY                                     |
| F1:TTN     | May 25 12:52:45 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN   | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

### CURVE MEASURE POINT OFFSET

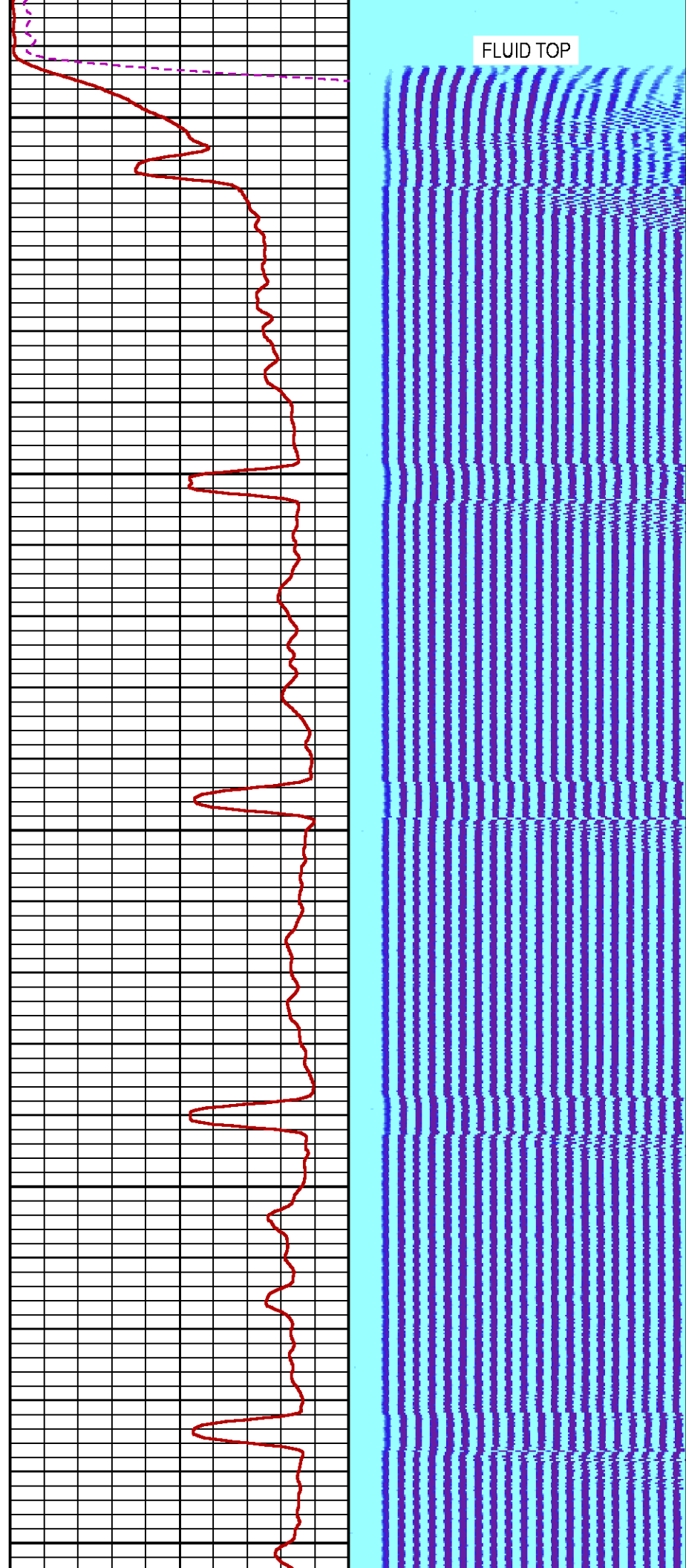
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL   | 8.50        | GR    | 6.50        | XAMPN | 13.75       |       |             |
| FAMPN | 13.75       | TTN   | 13.75       |       |             |       |             |

Presentation : cas6685:/dat1a/CH096703/WPX\_ral\_cbl.fvpdf [5"/100' Scale]  
 Plot Interval : 17.25 - 12728.2 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096/03/n012e02\_MAIN.xtf  
Created On : May 25 12:52:45 2015  
Company : WPX ENERGY  
Well : FEDERAL RGU 313-25-198  
Field : SULPHUR CREEK  
File Interval : 16.25 - 12729.8 Feet  
OCT : n012e



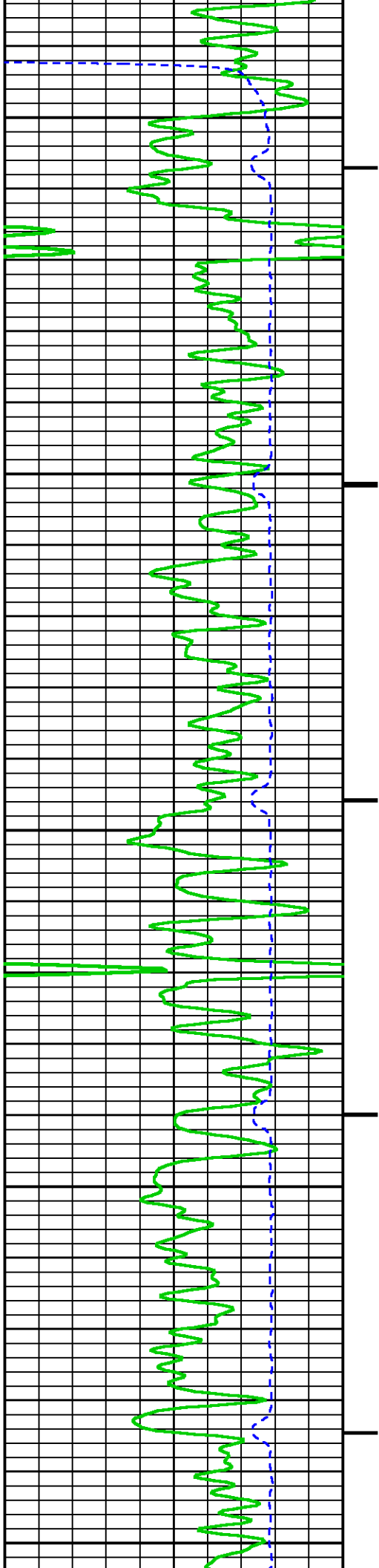
FLUID TOP



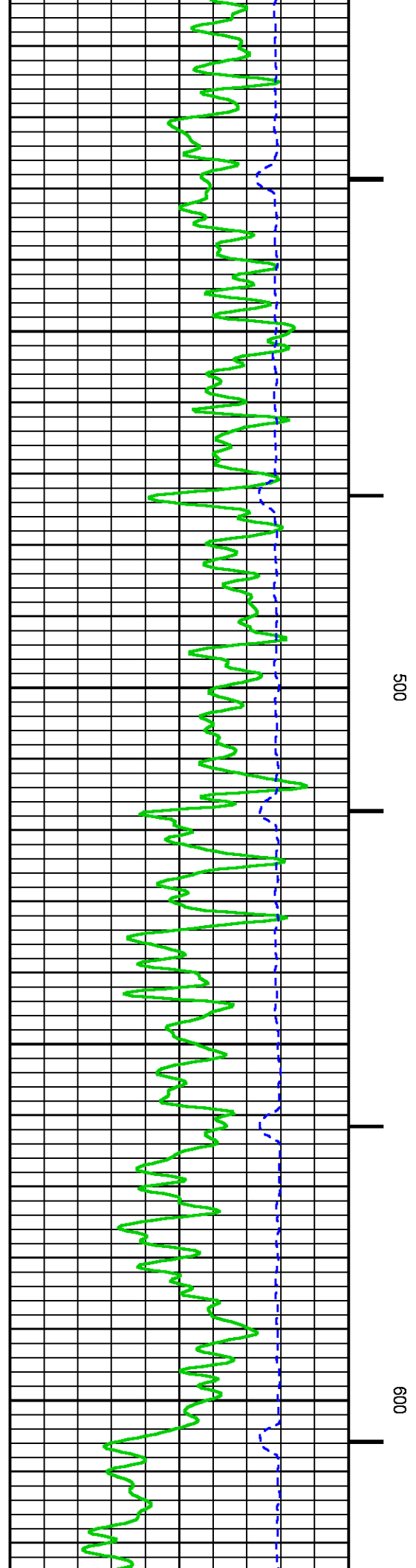
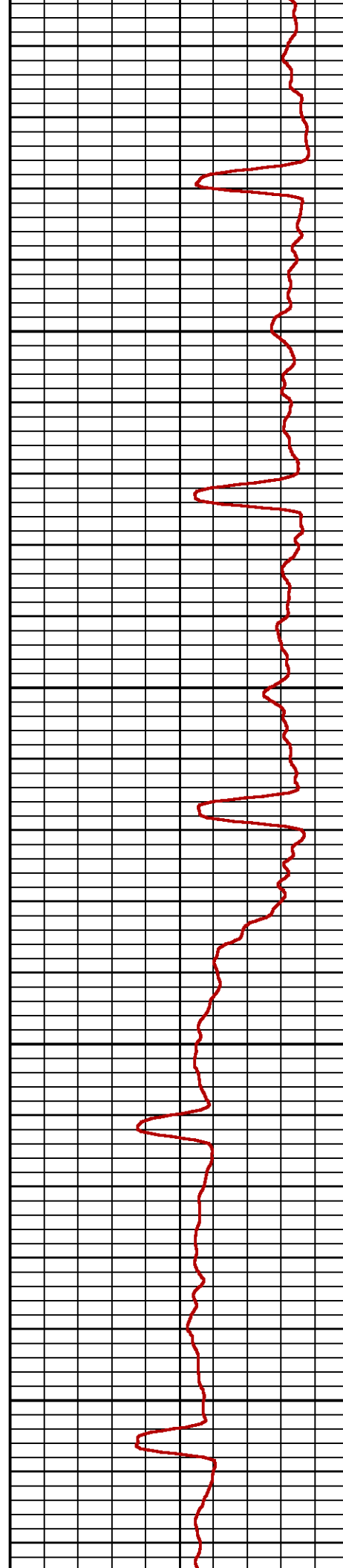
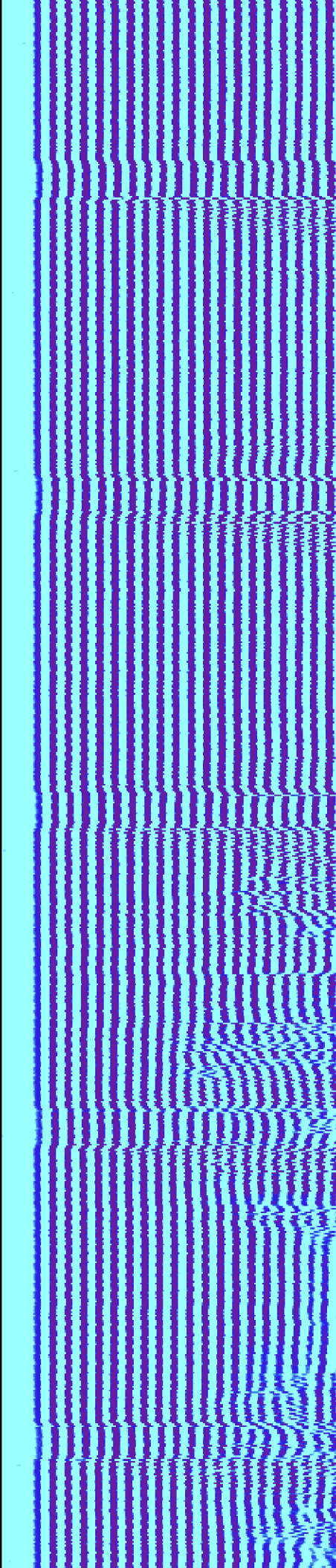
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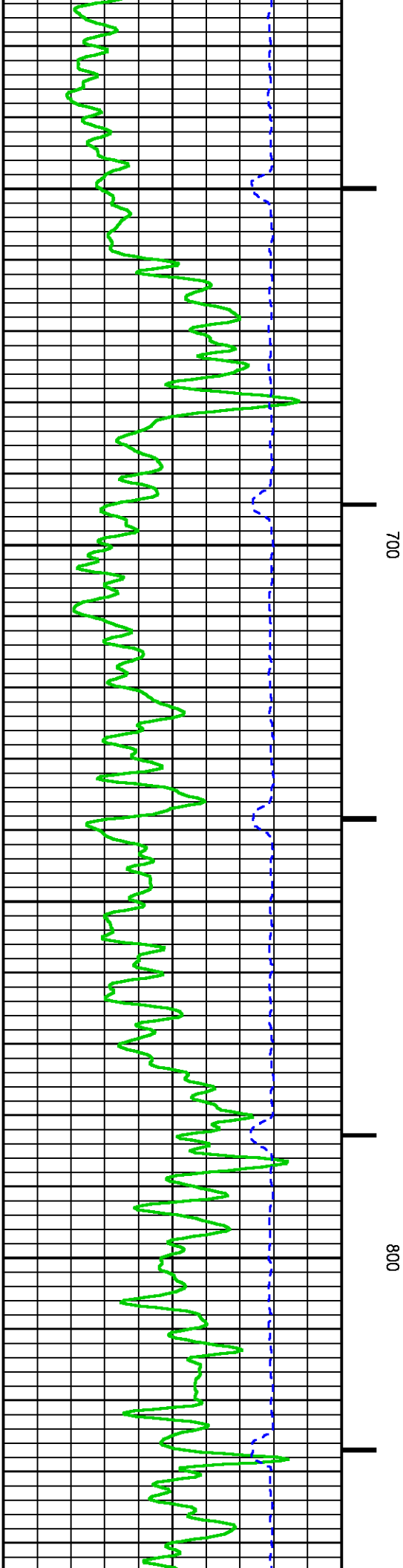
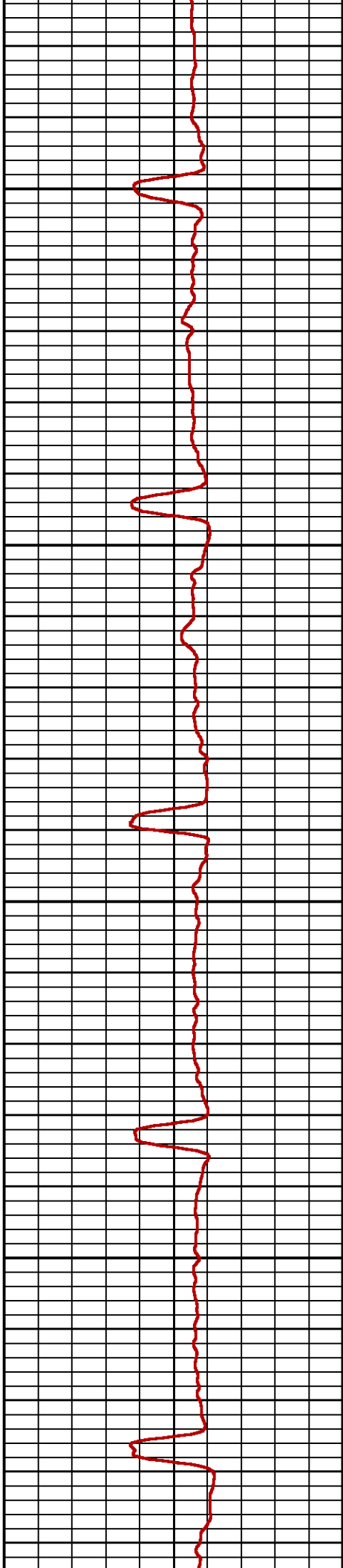
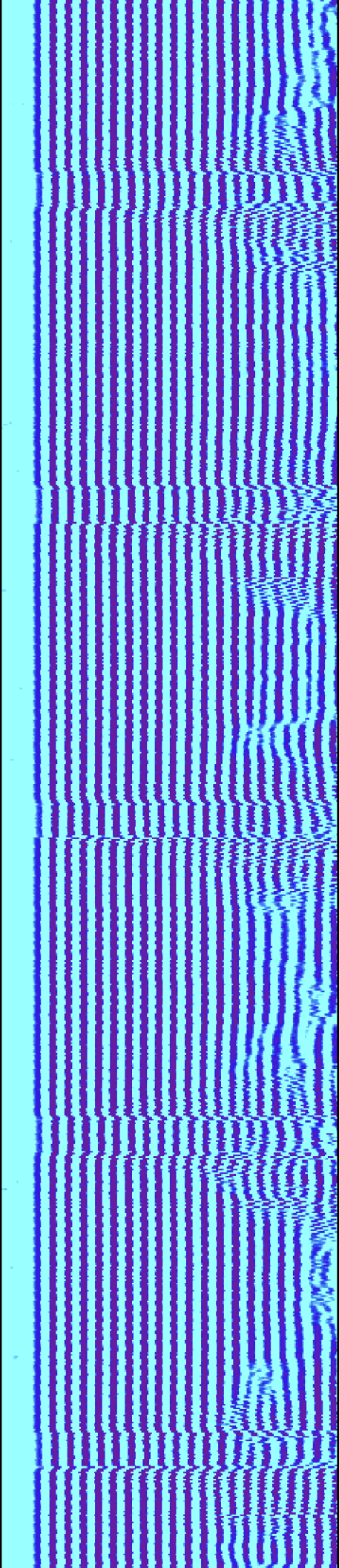
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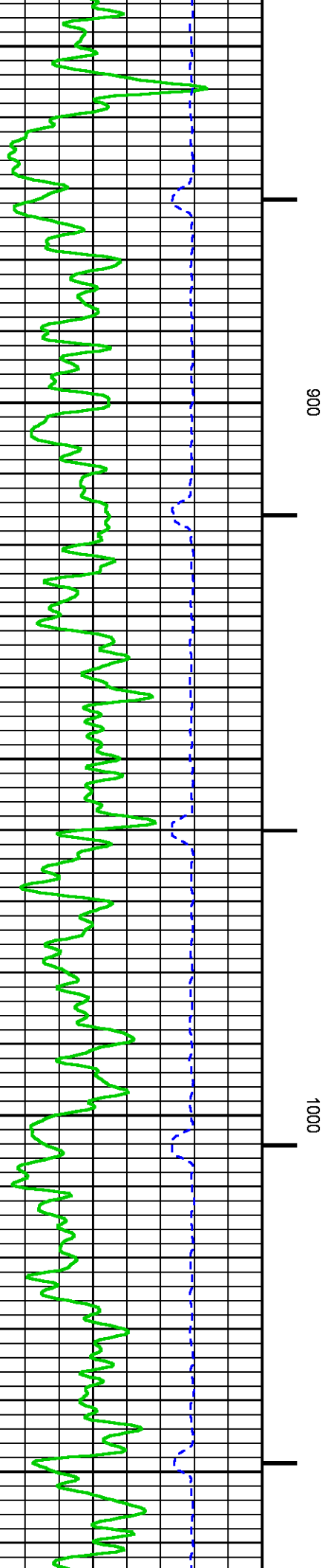
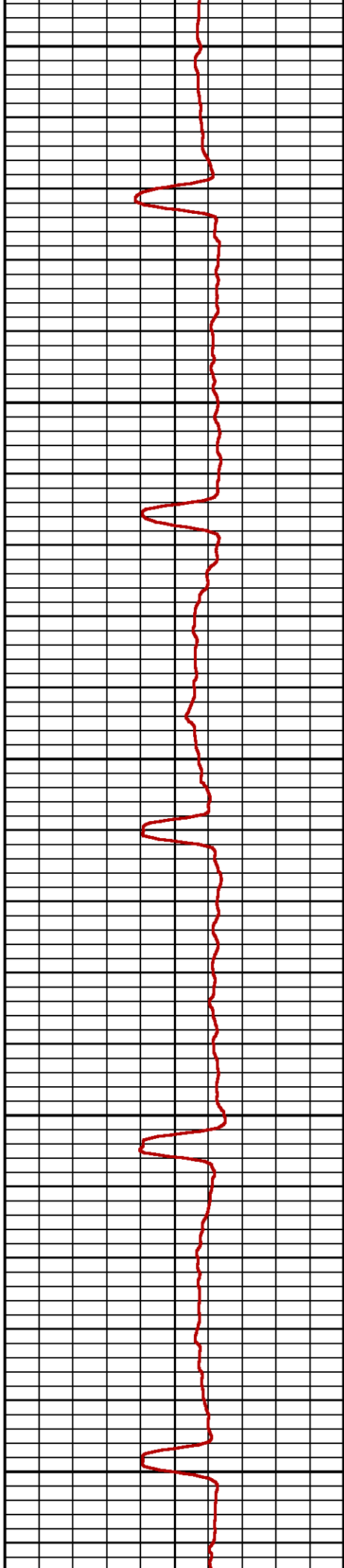
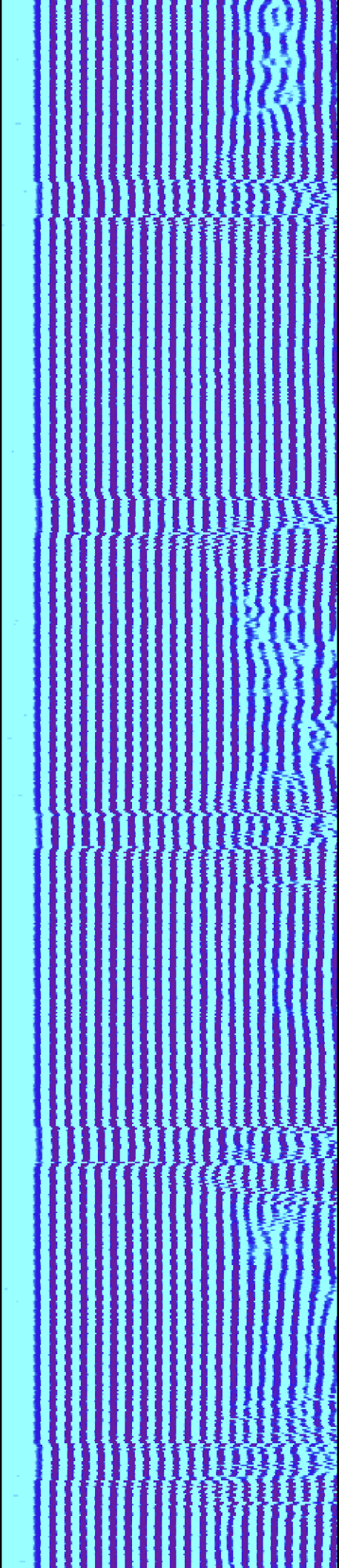
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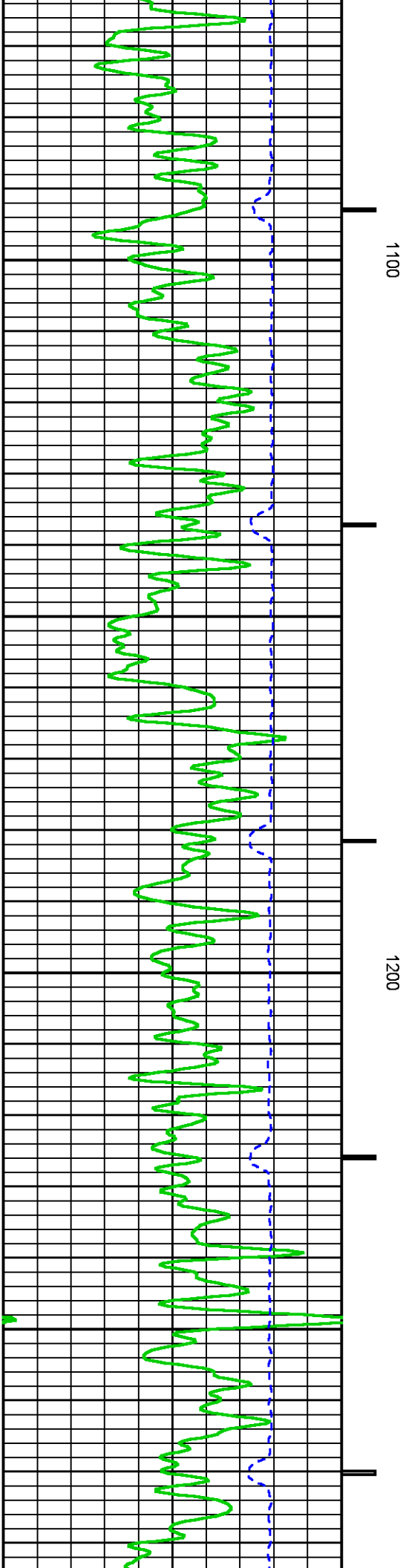
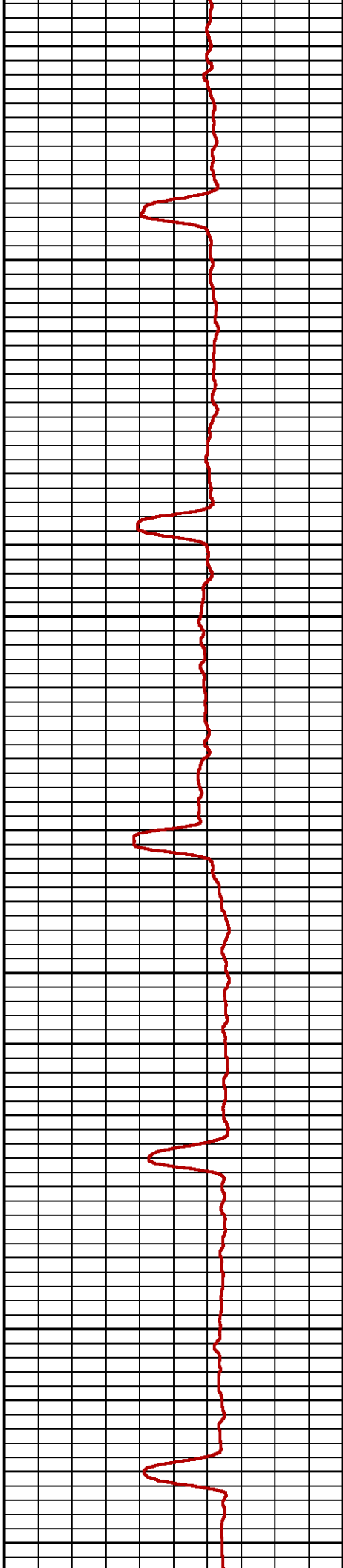
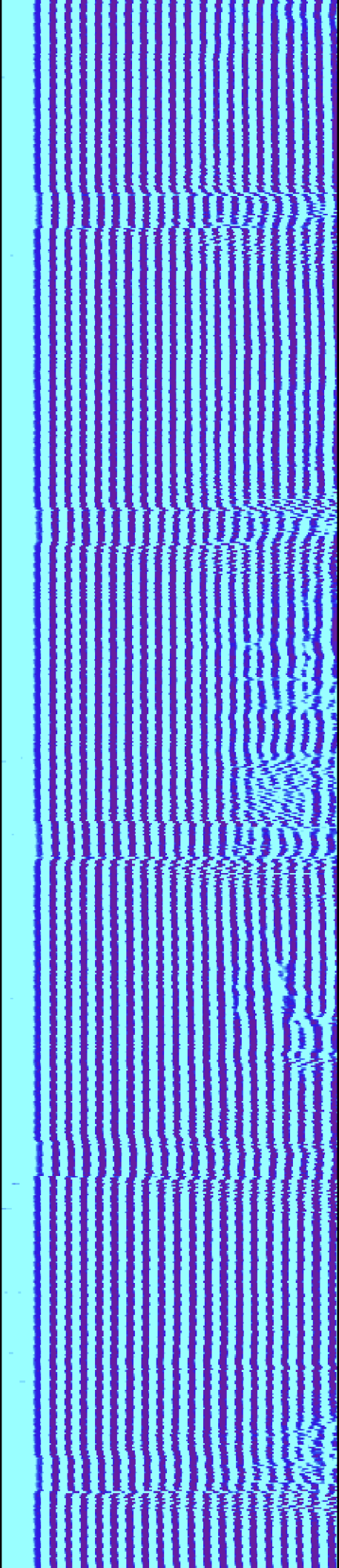




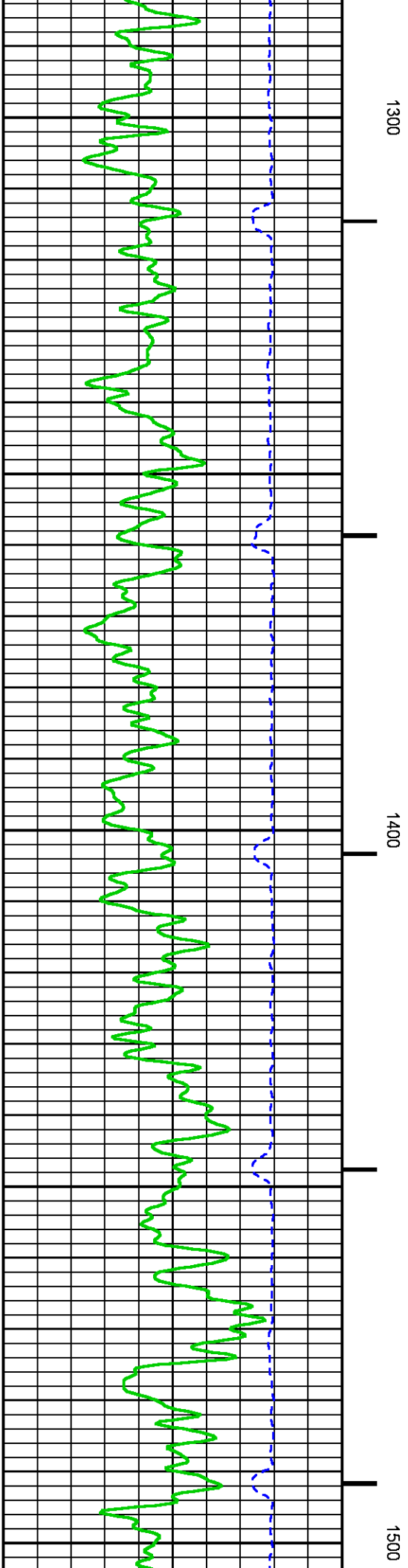
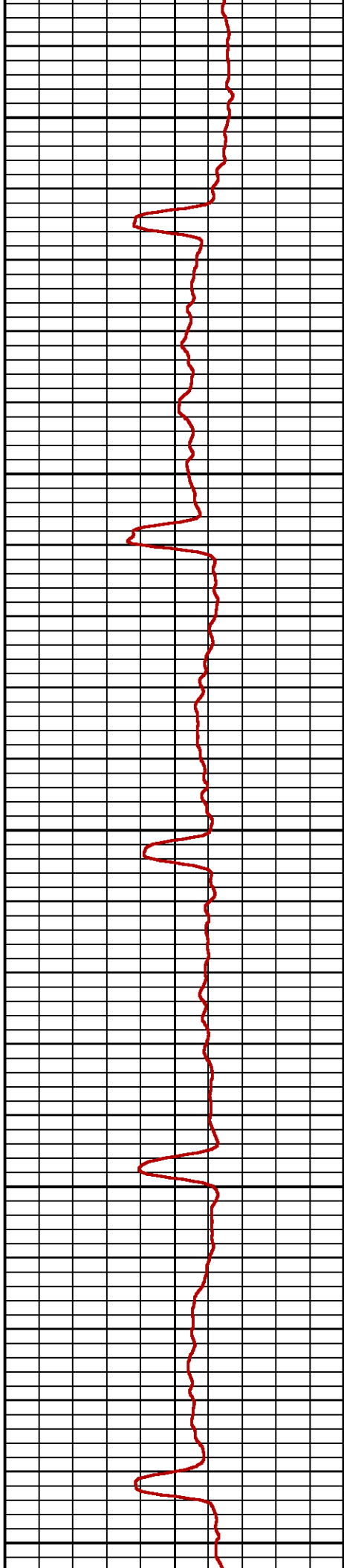
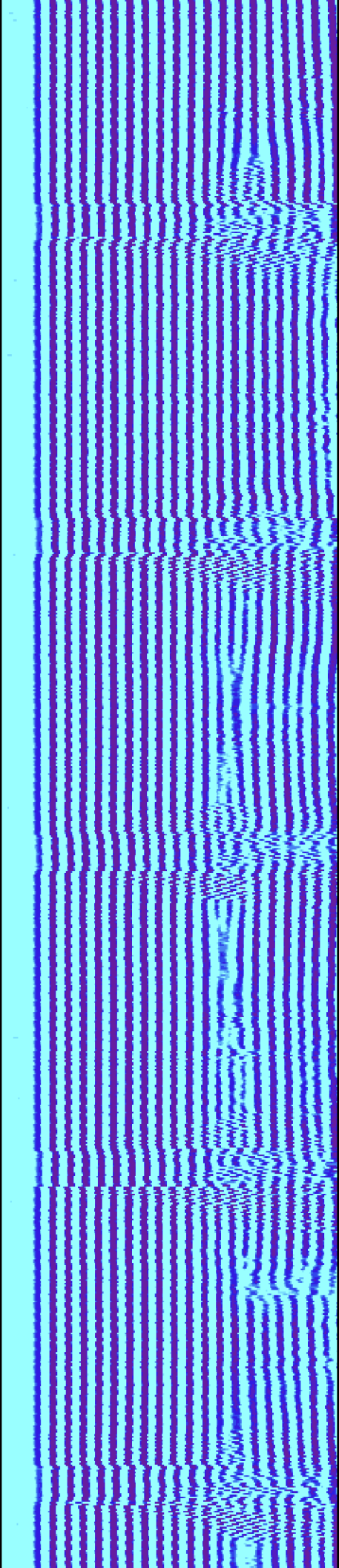


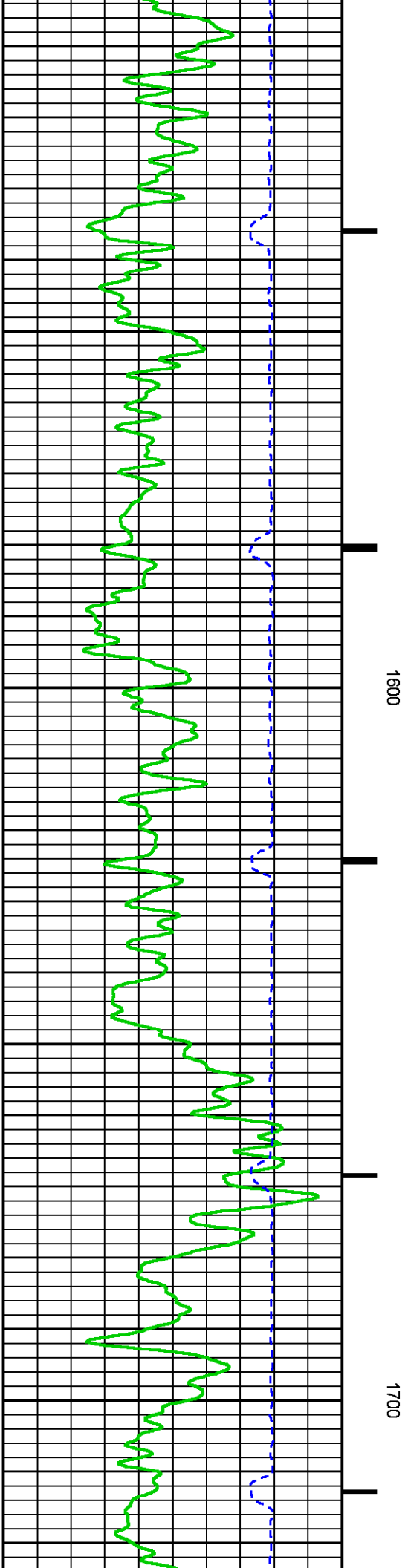
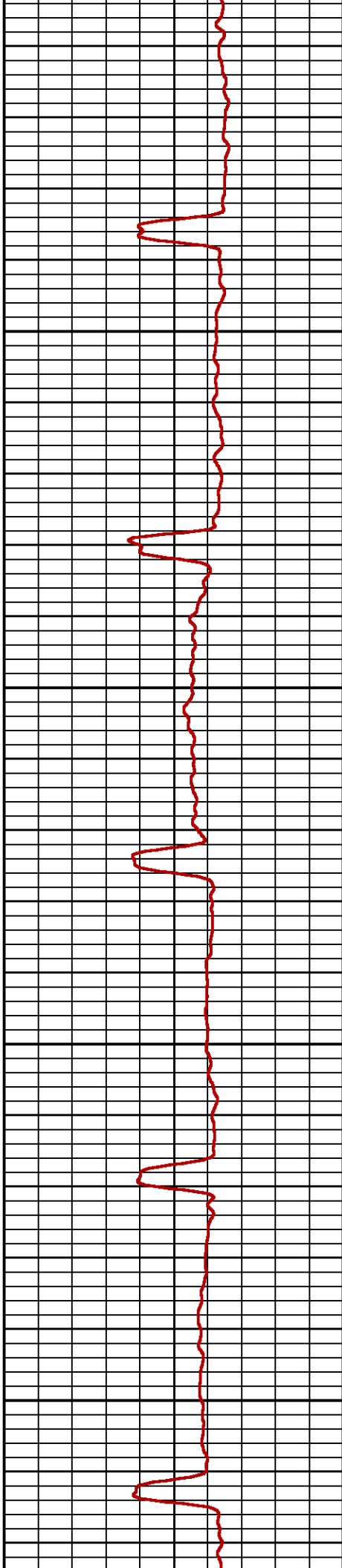
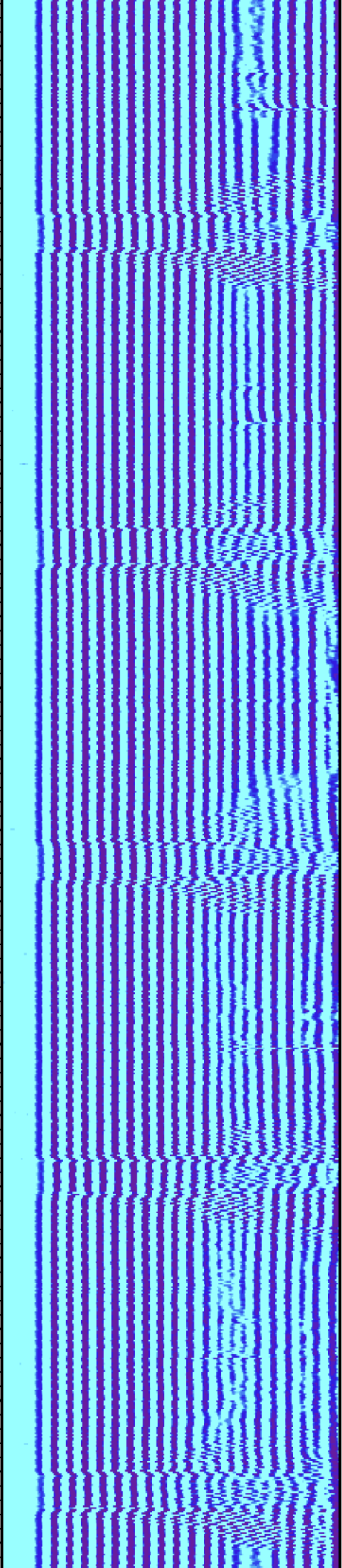


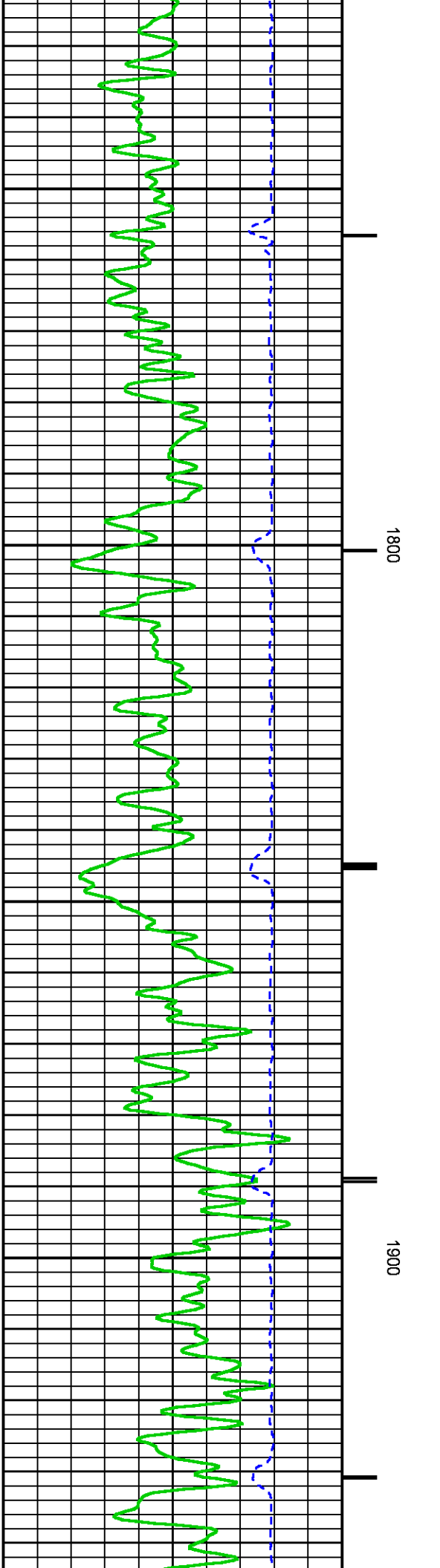
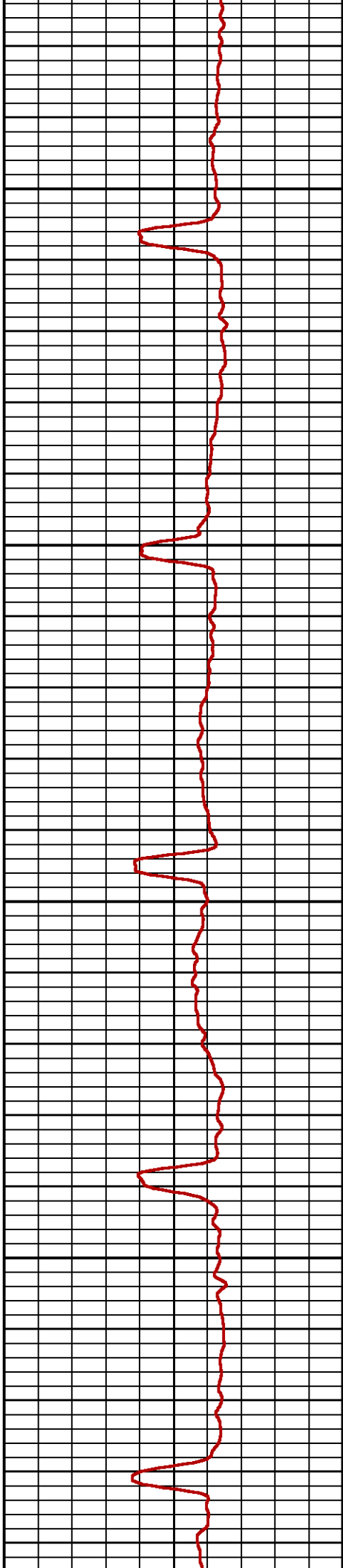
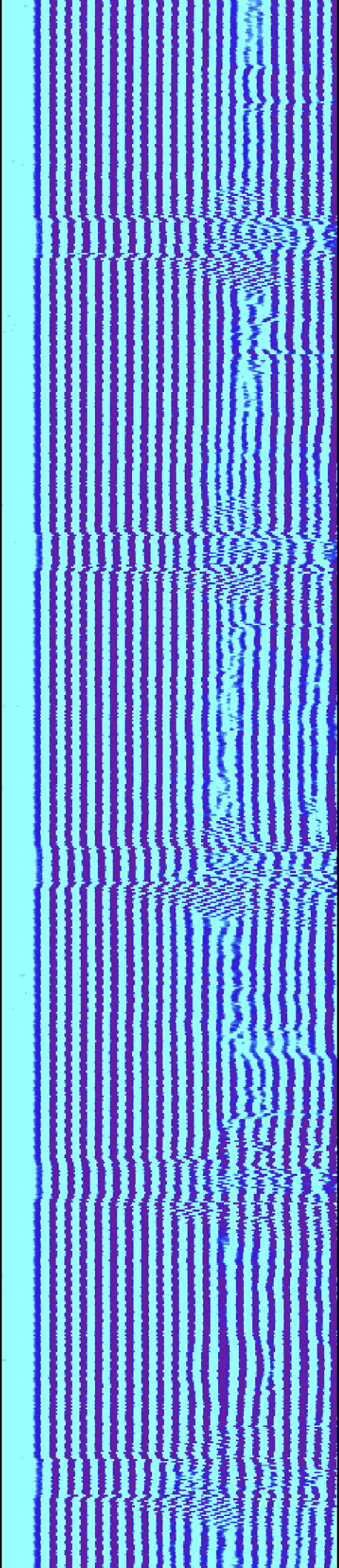


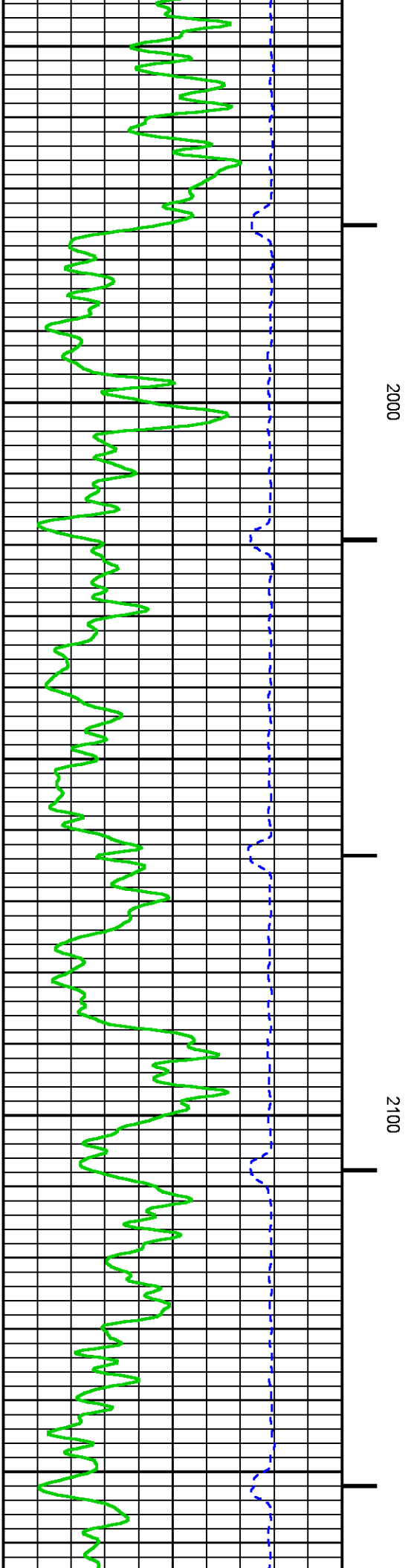
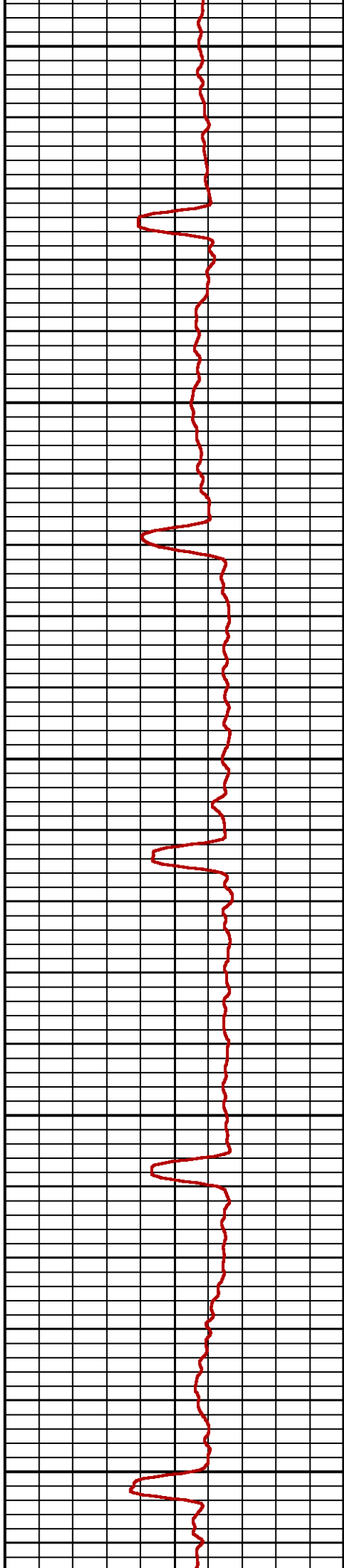
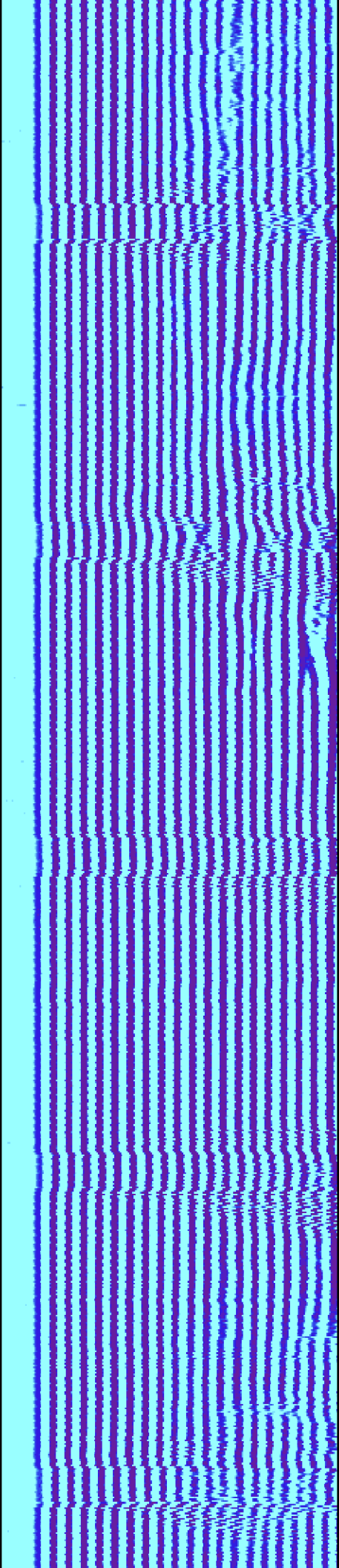




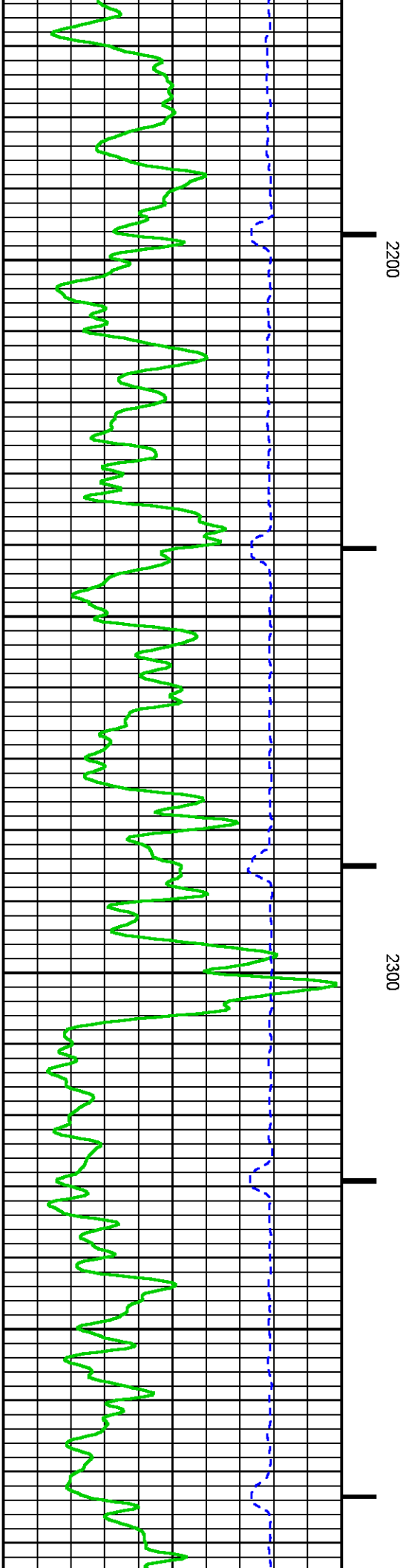
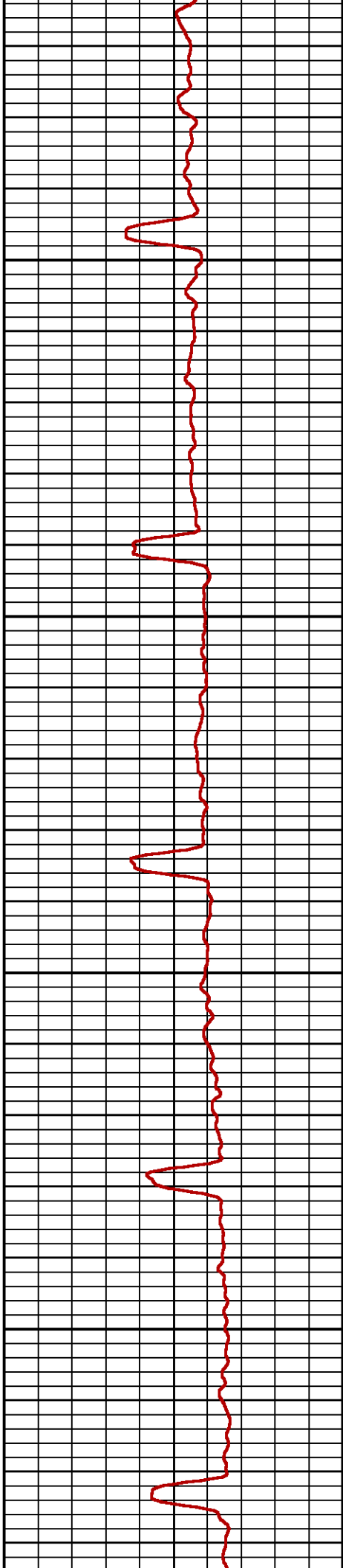
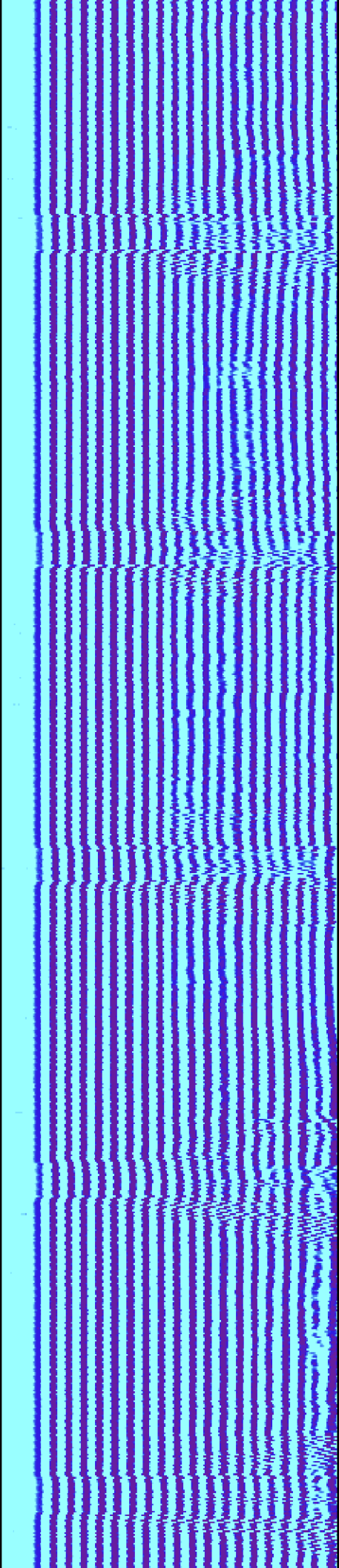


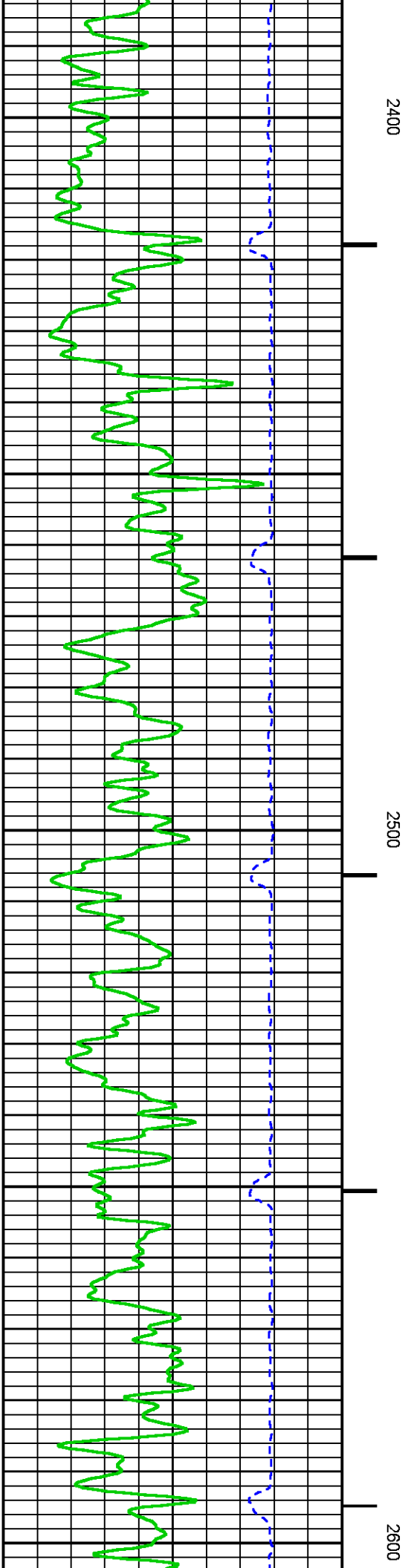
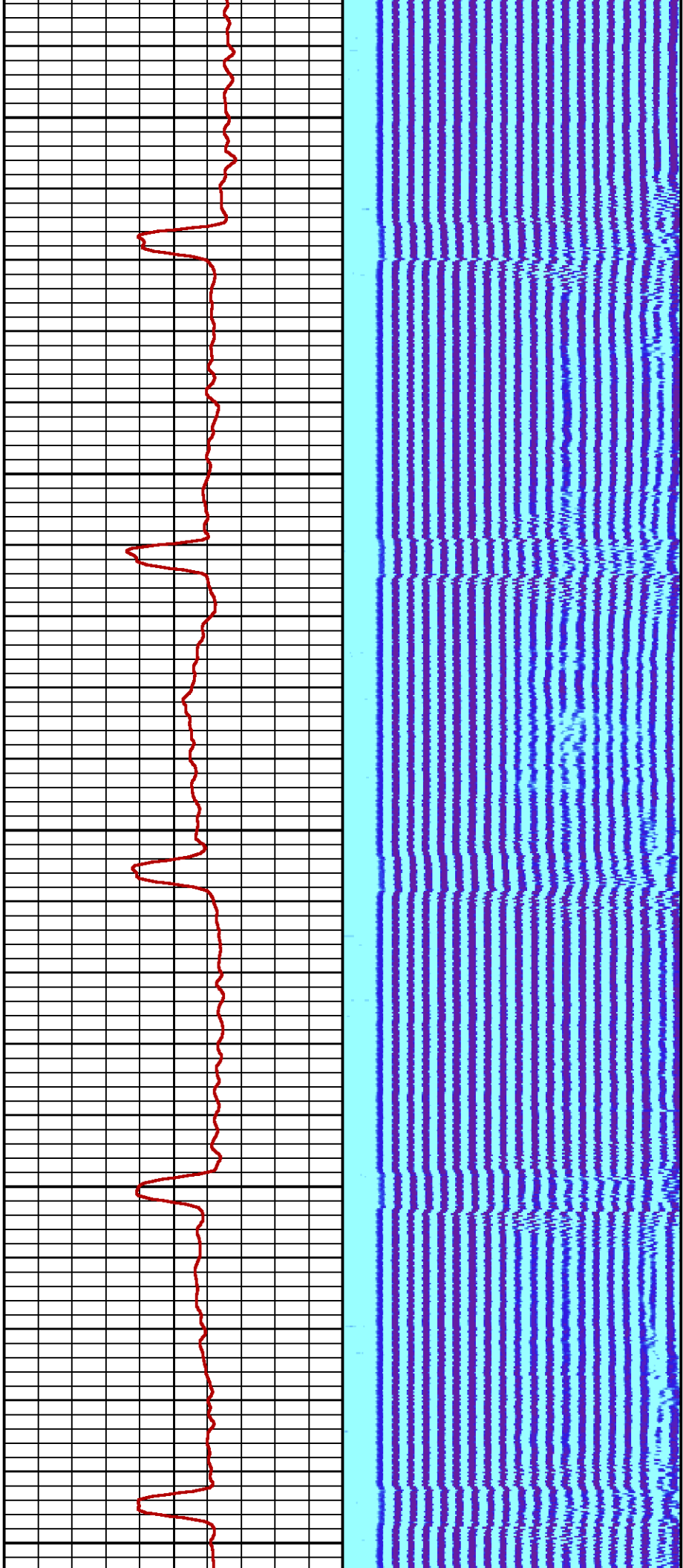


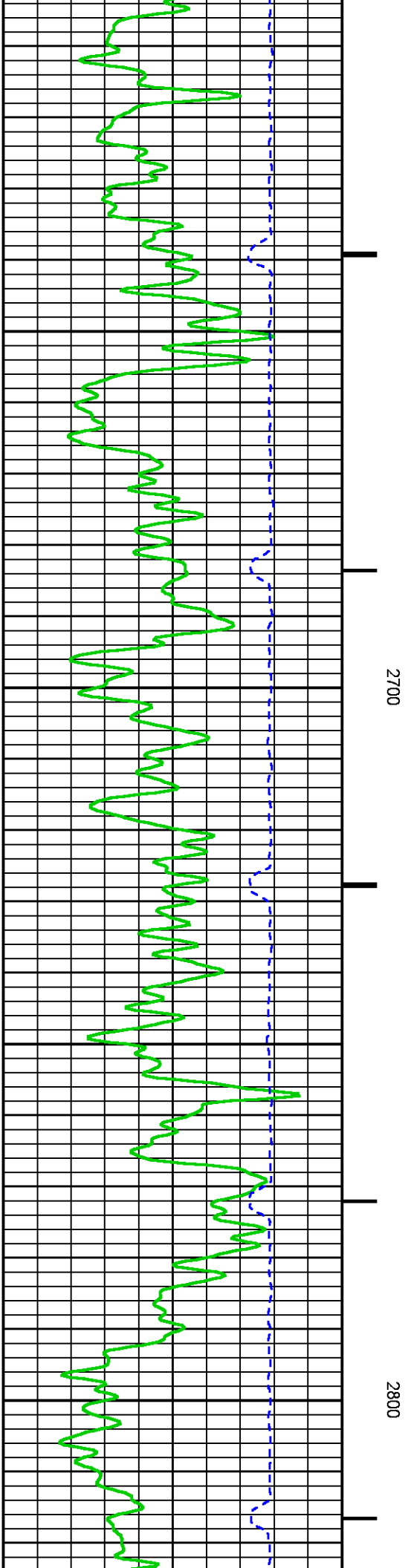
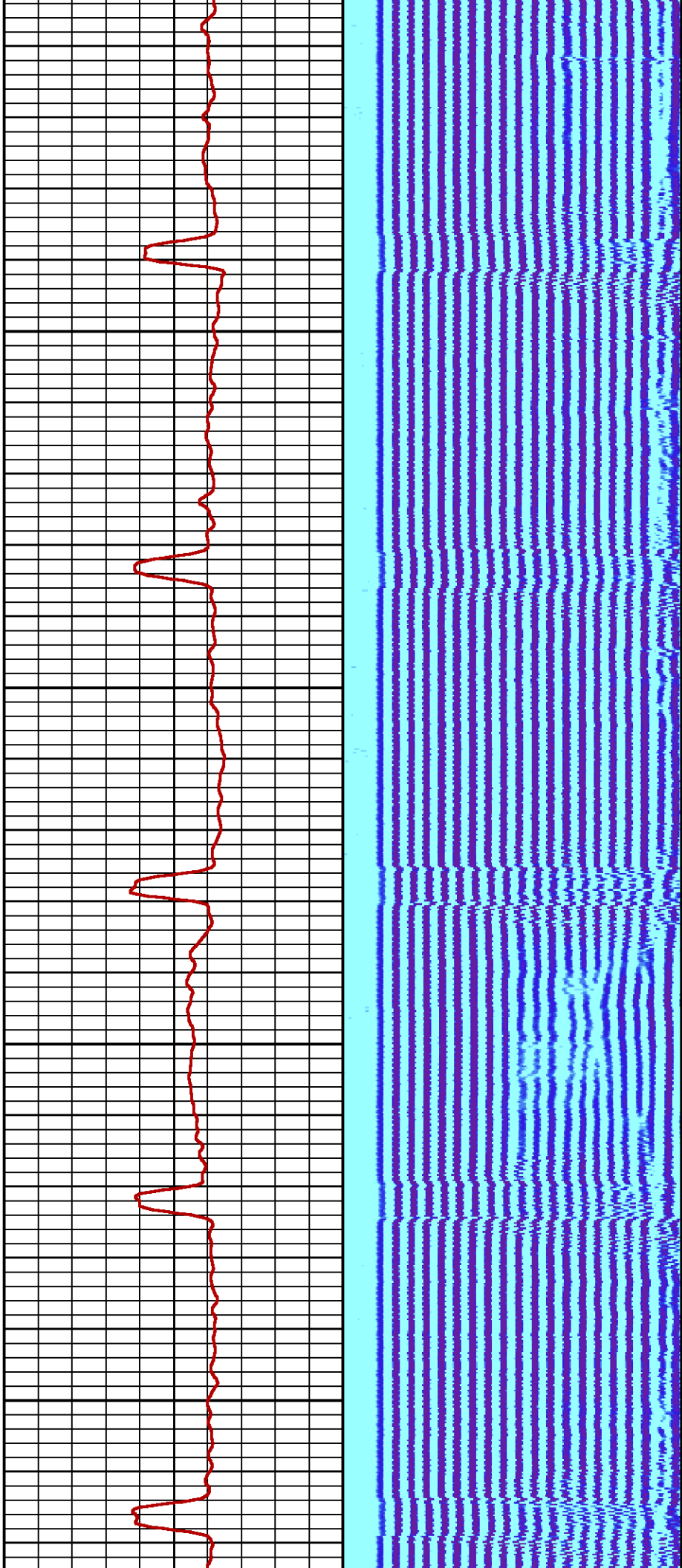


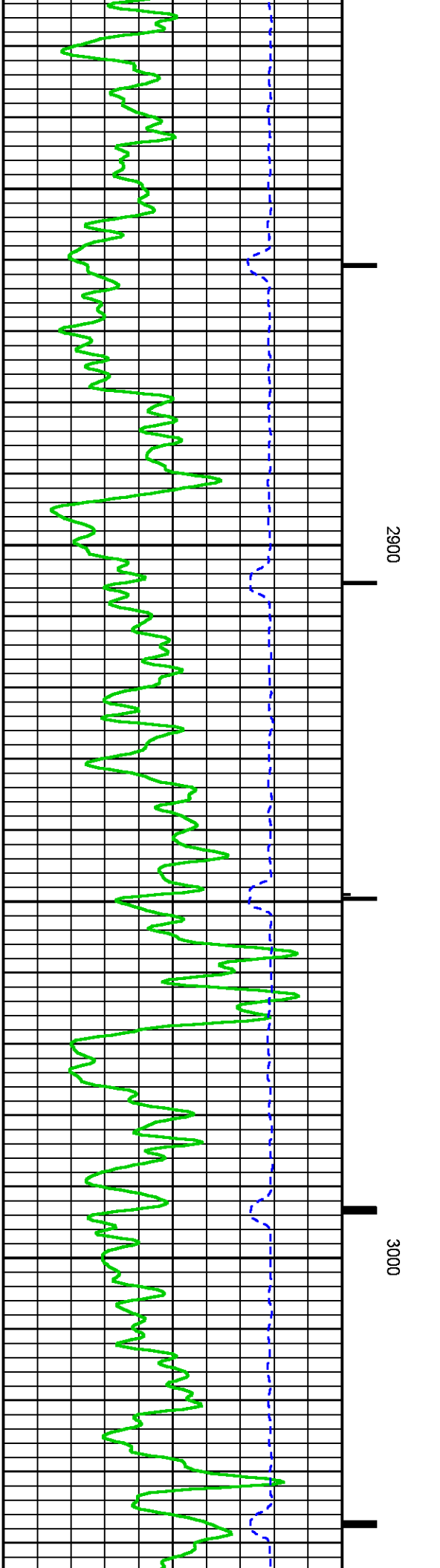
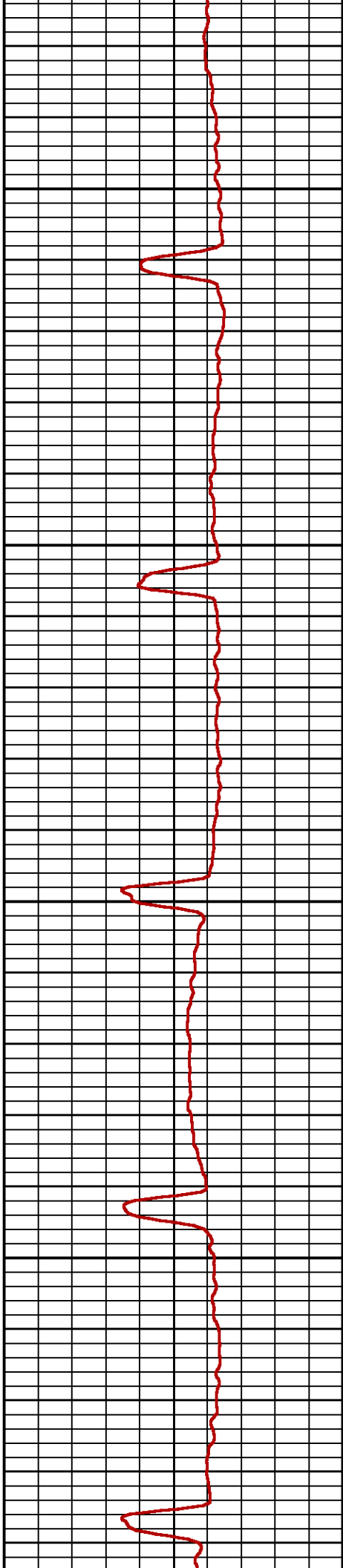
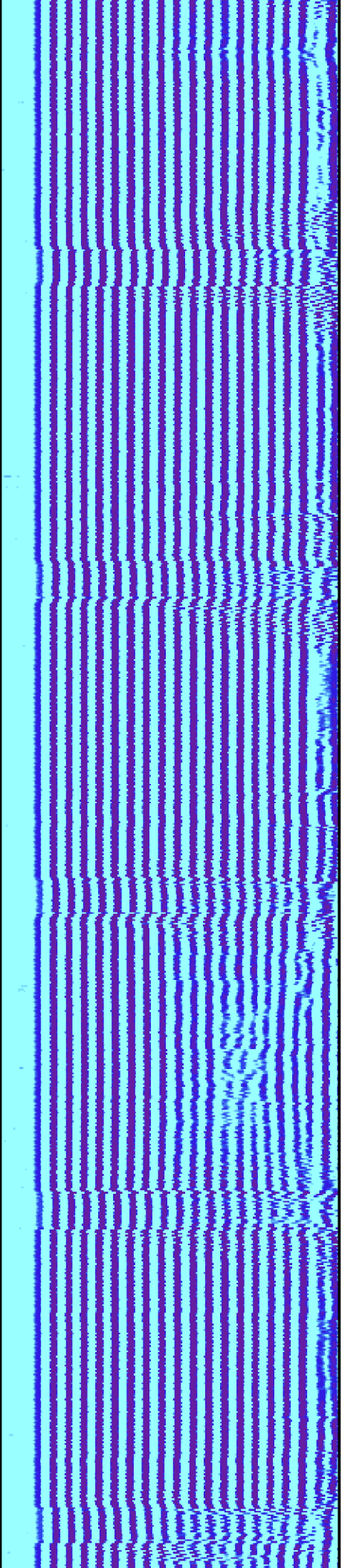




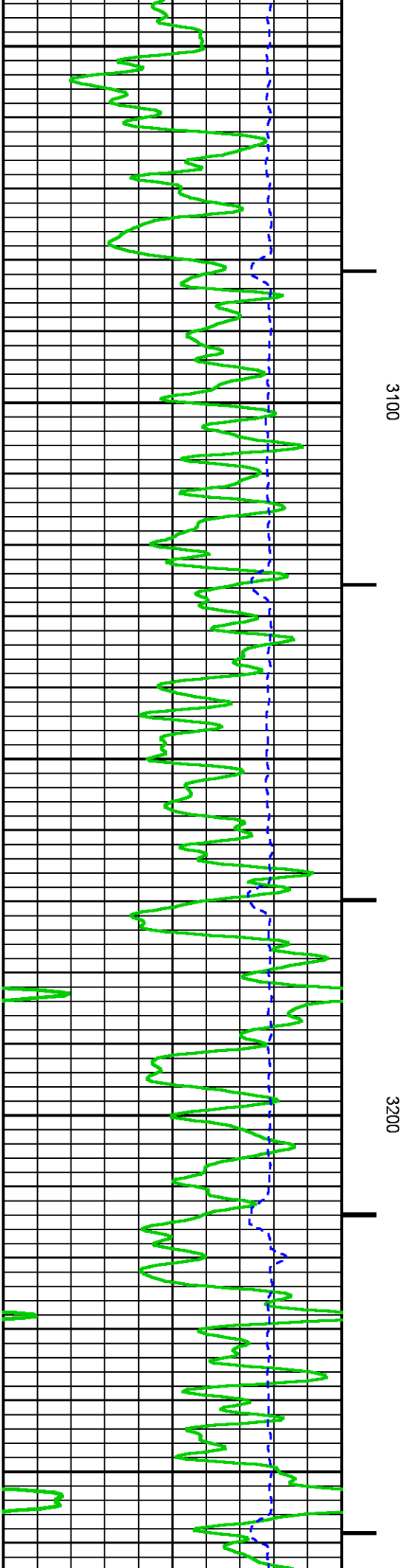
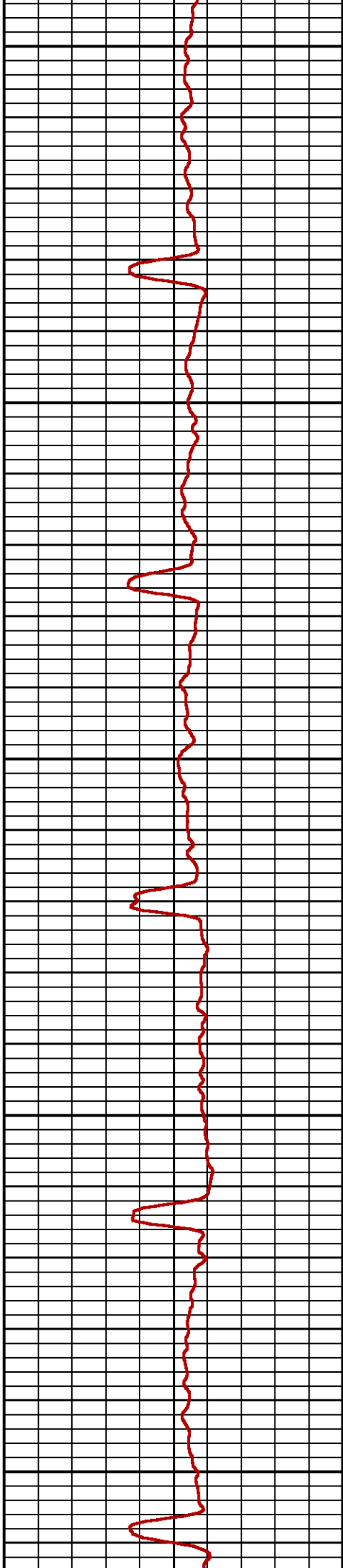
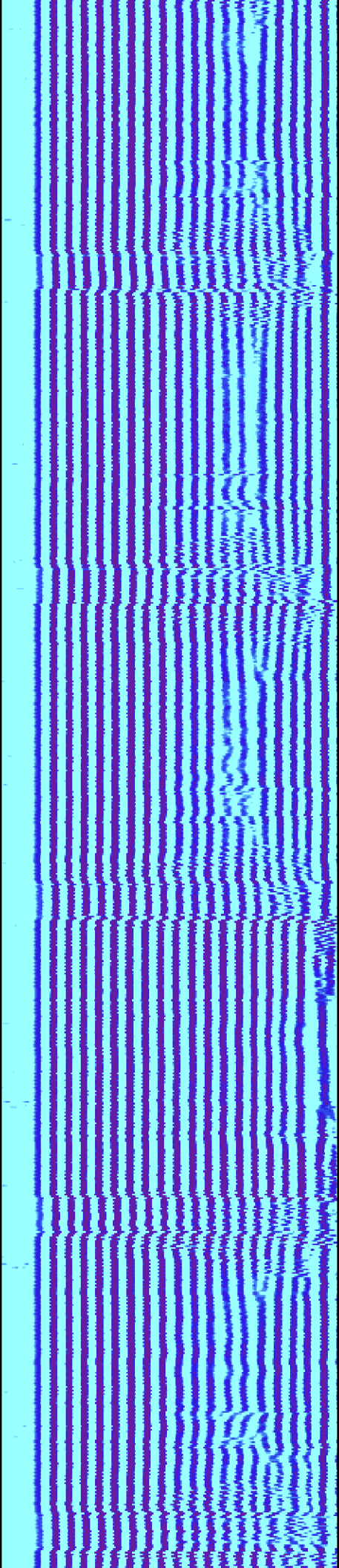


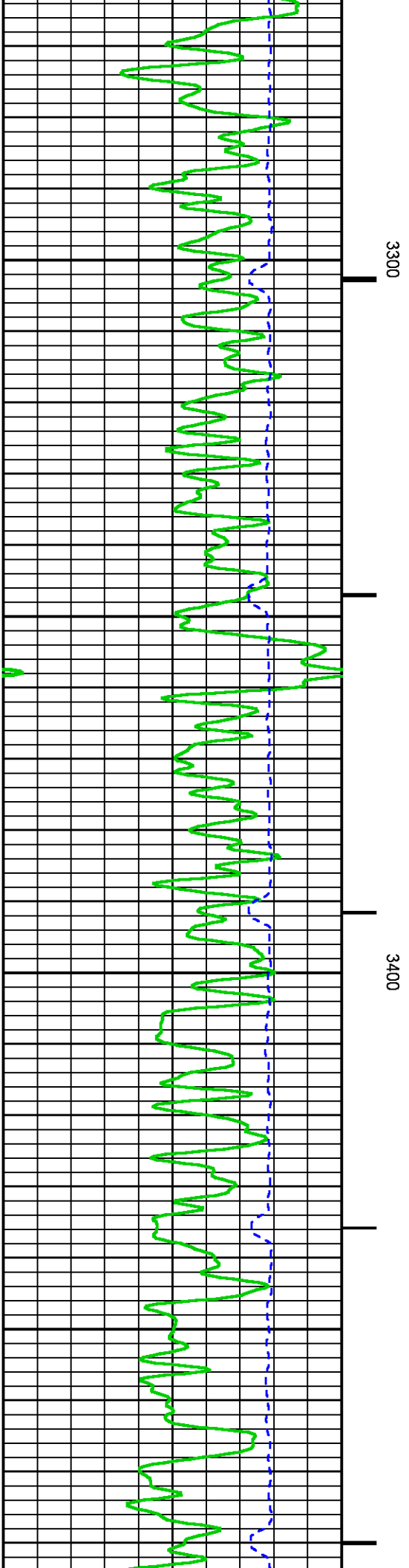
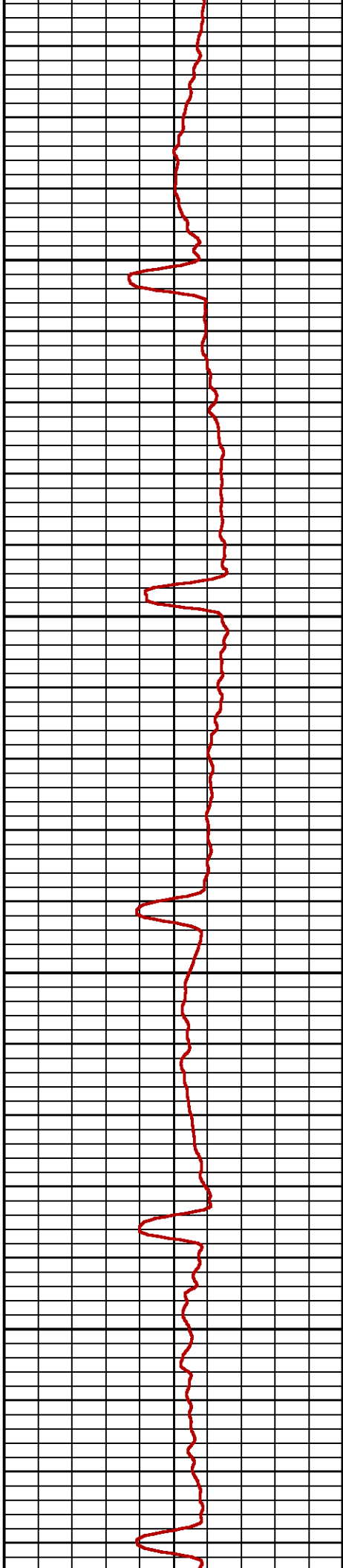
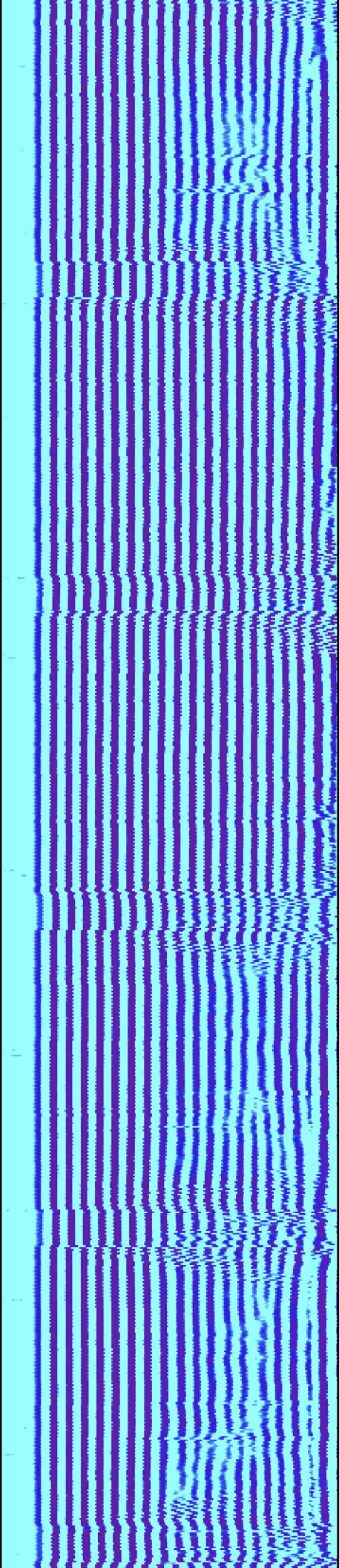


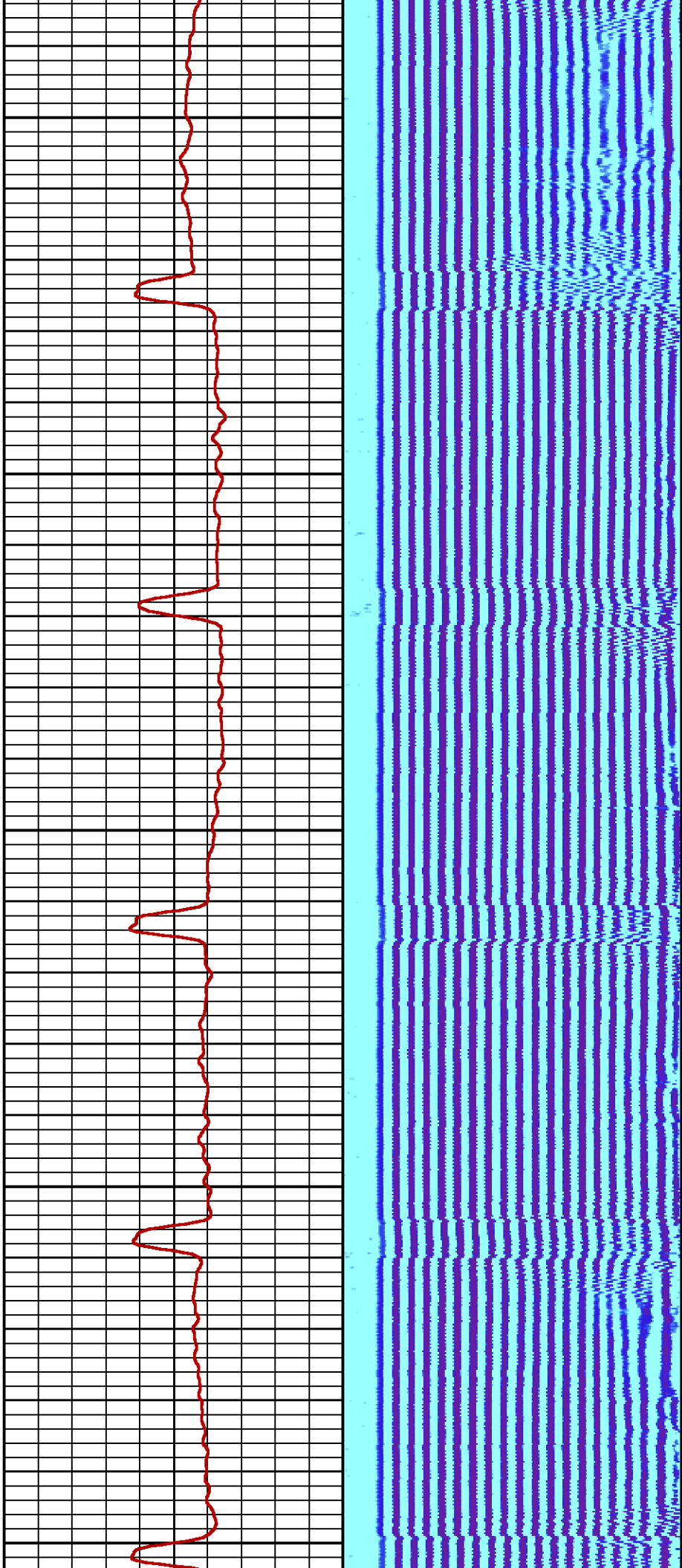








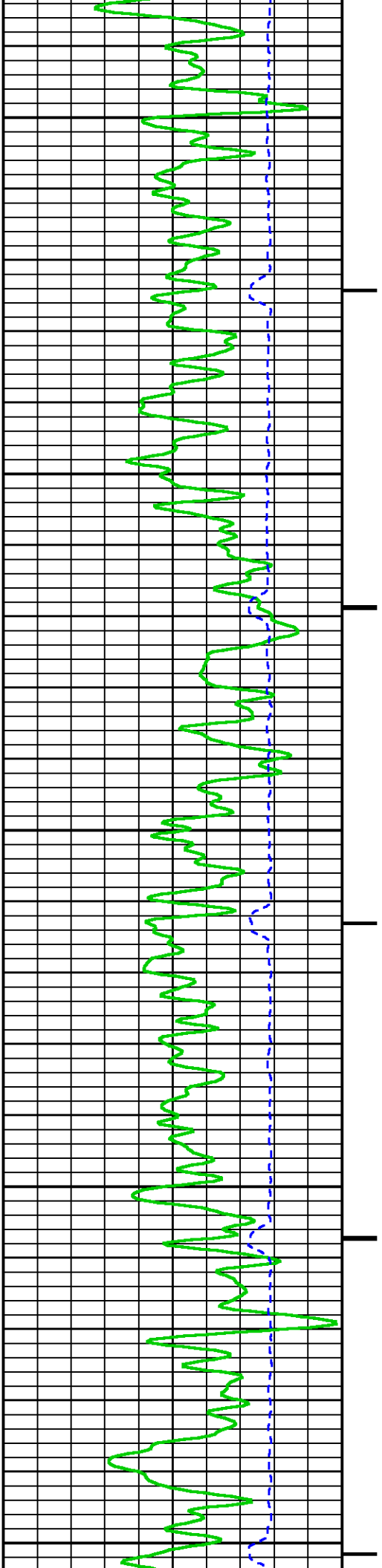


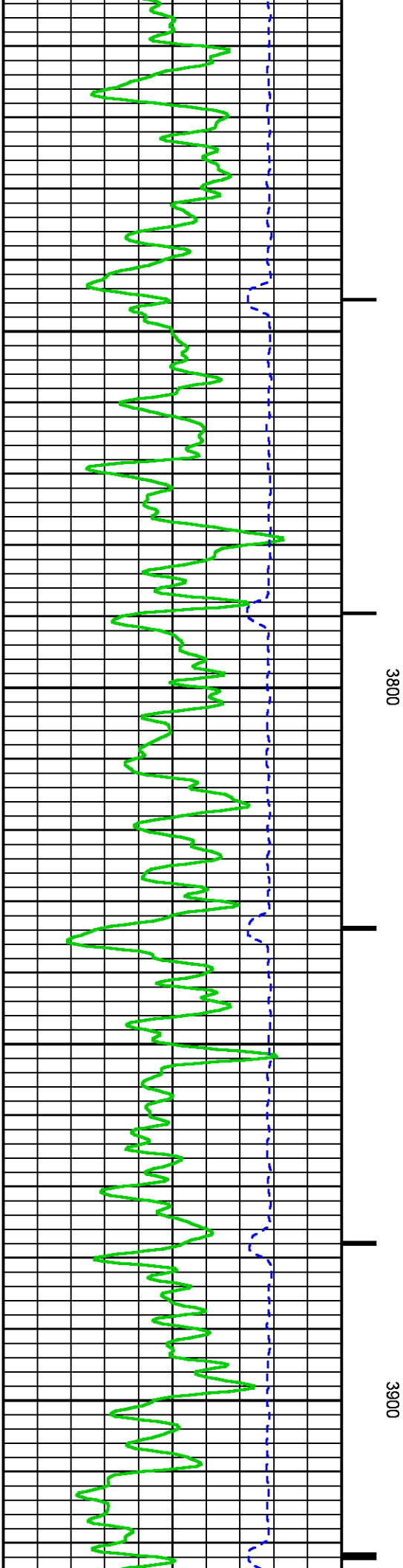
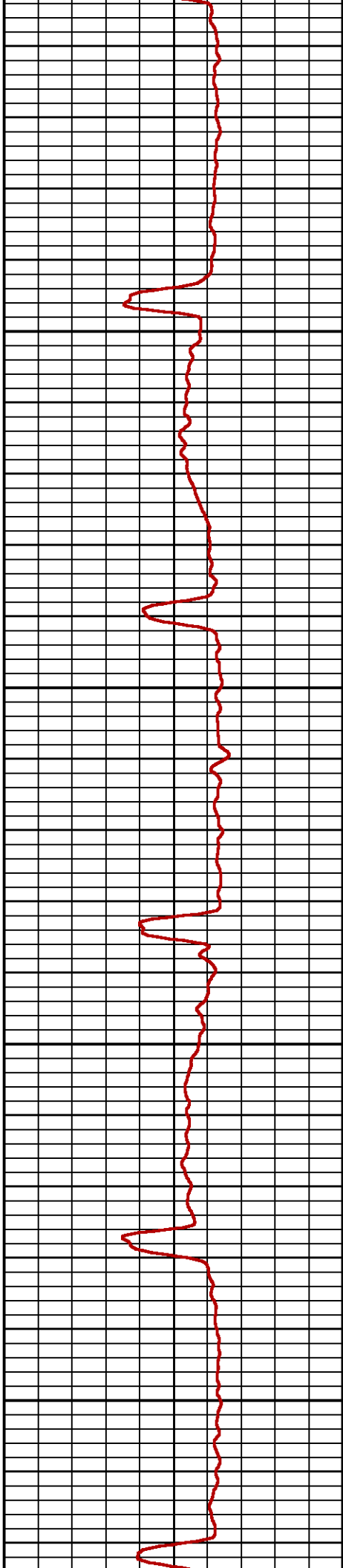
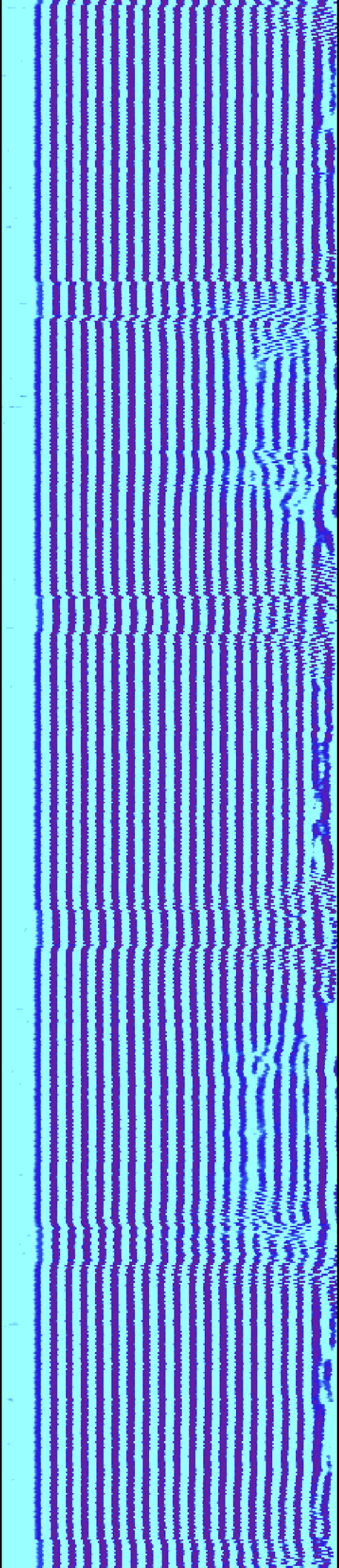


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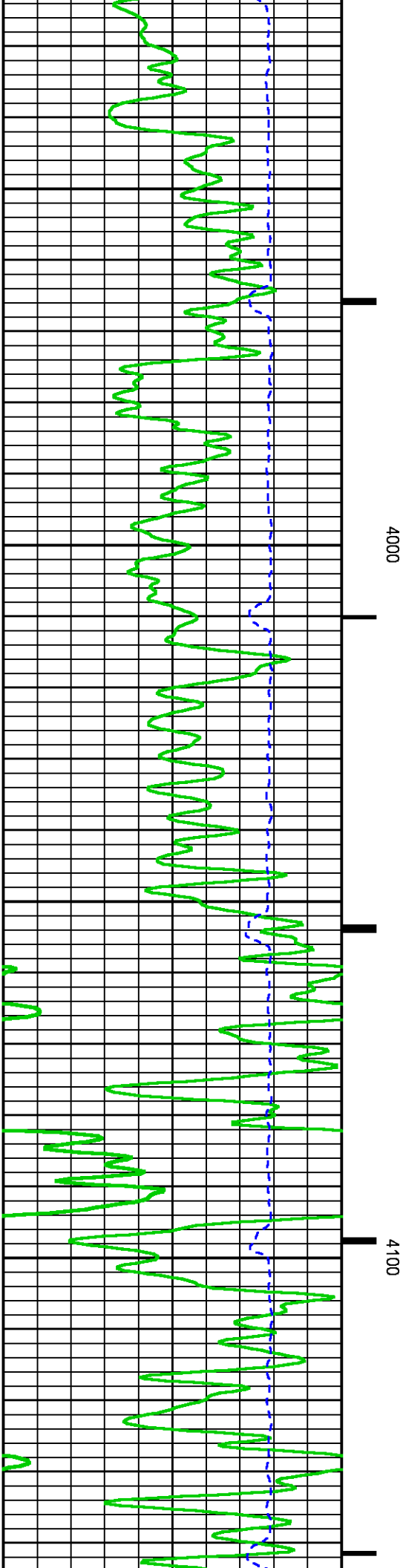
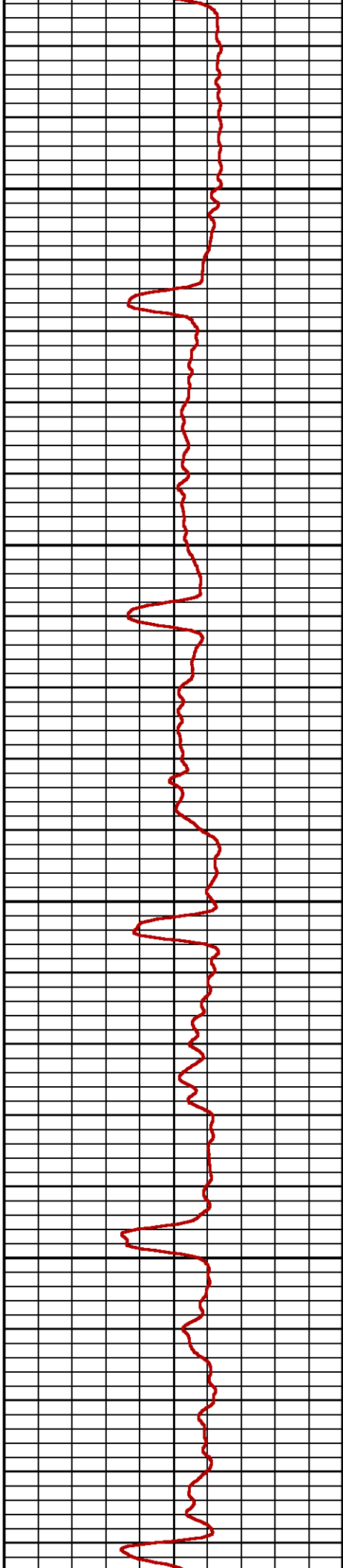
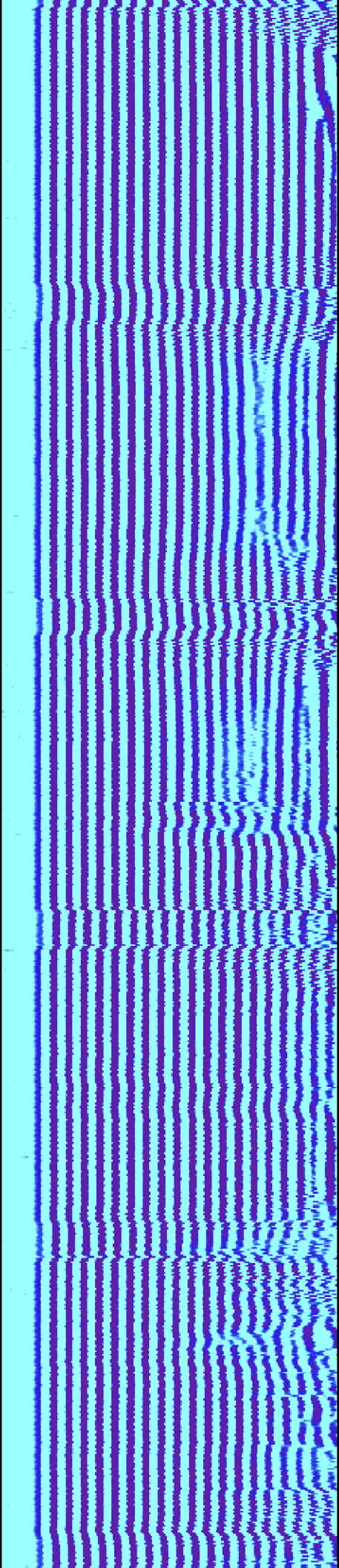
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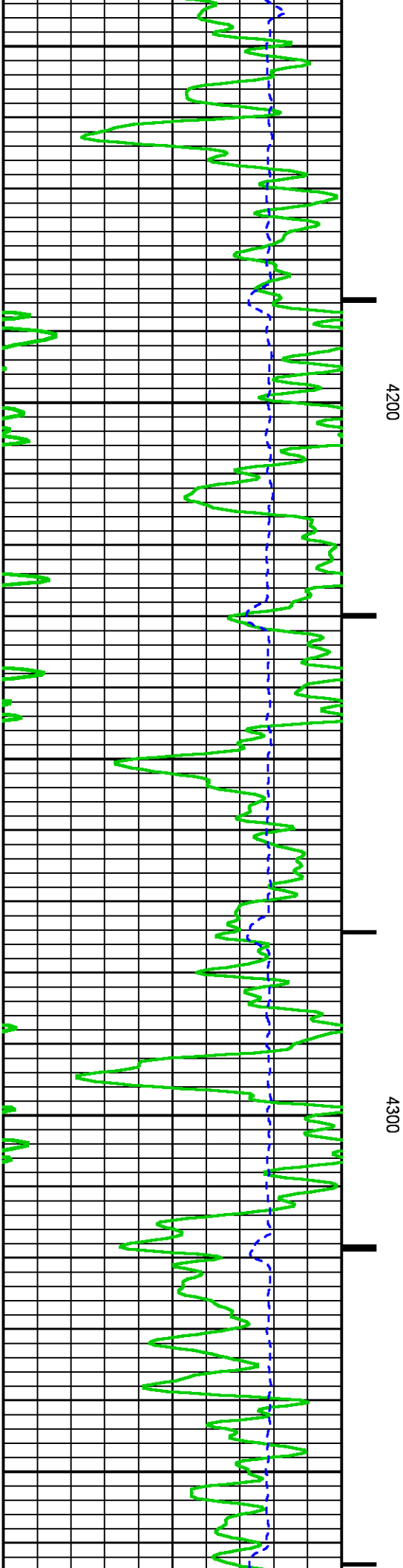
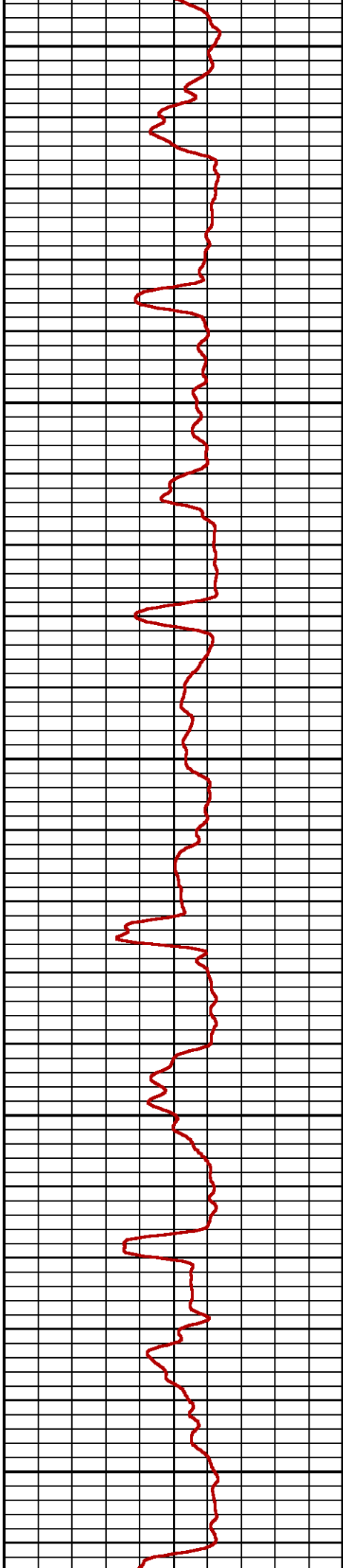
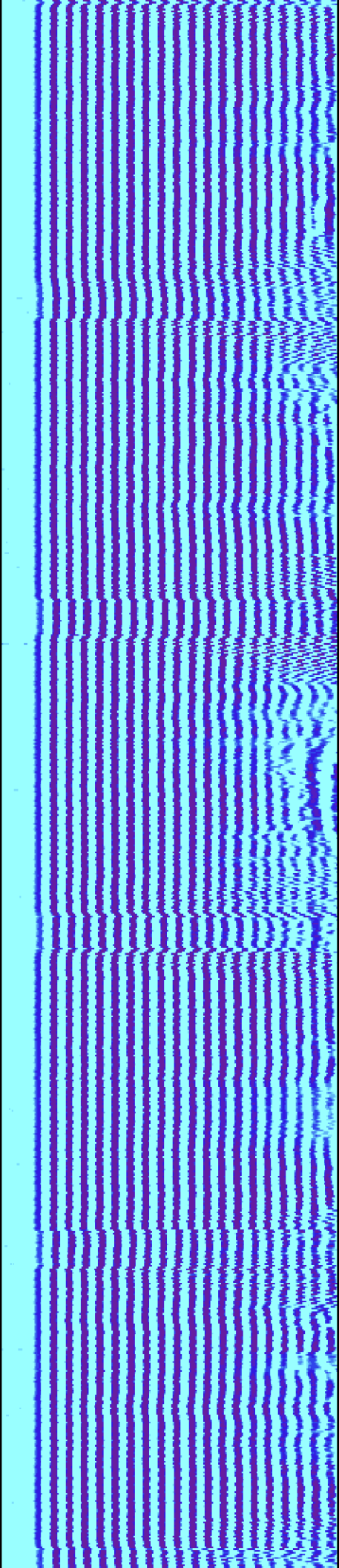
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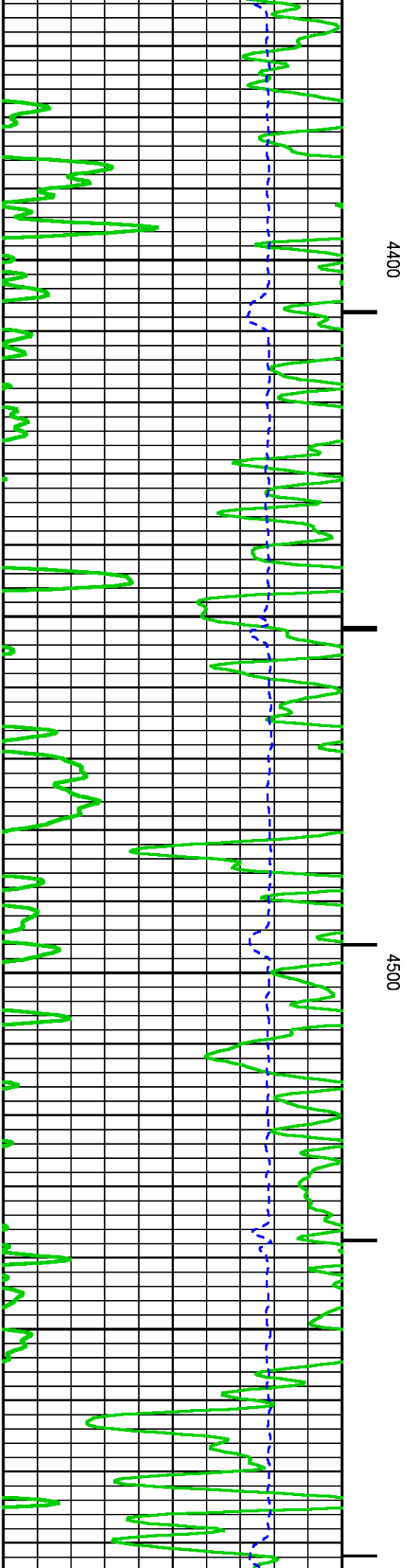
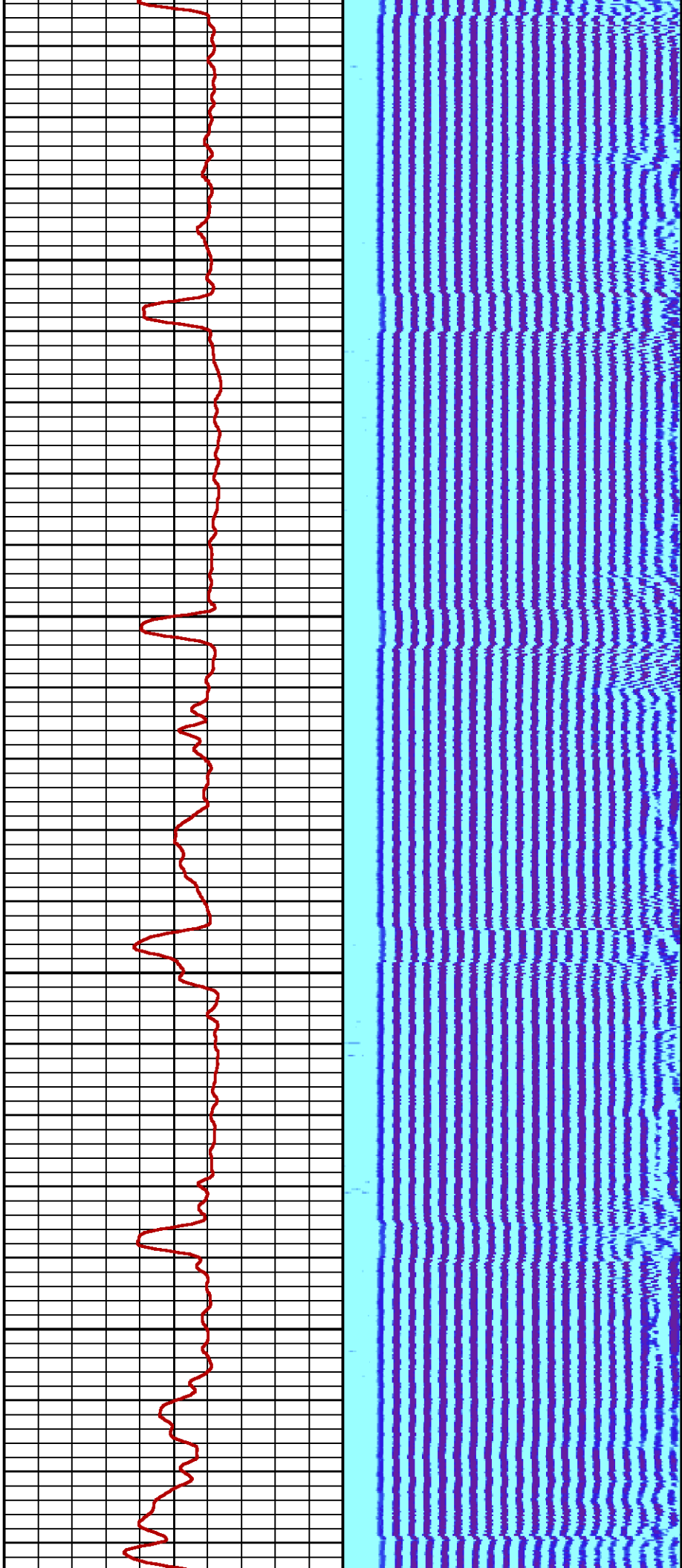


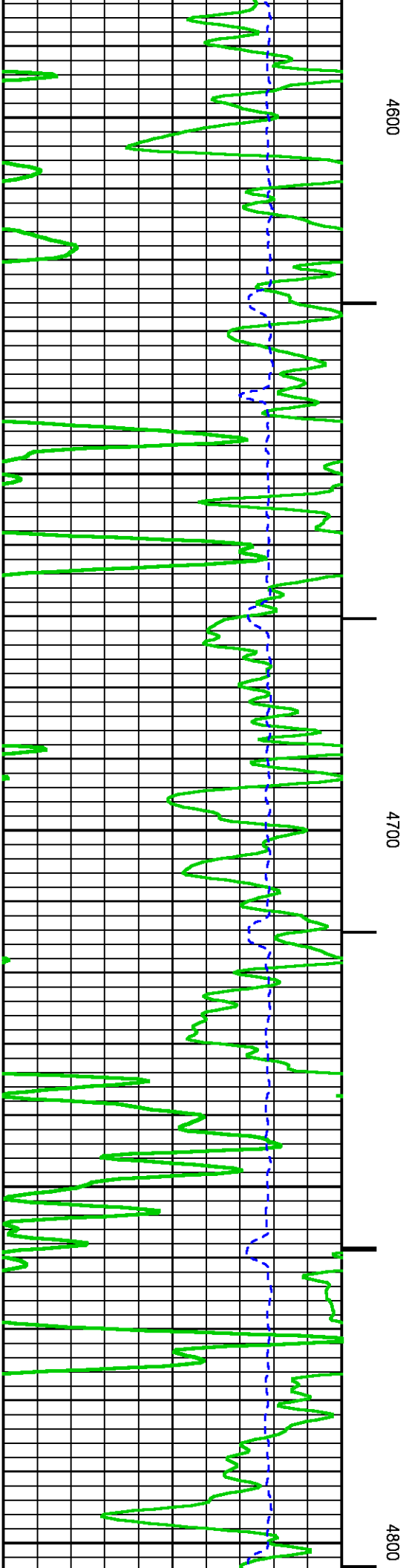
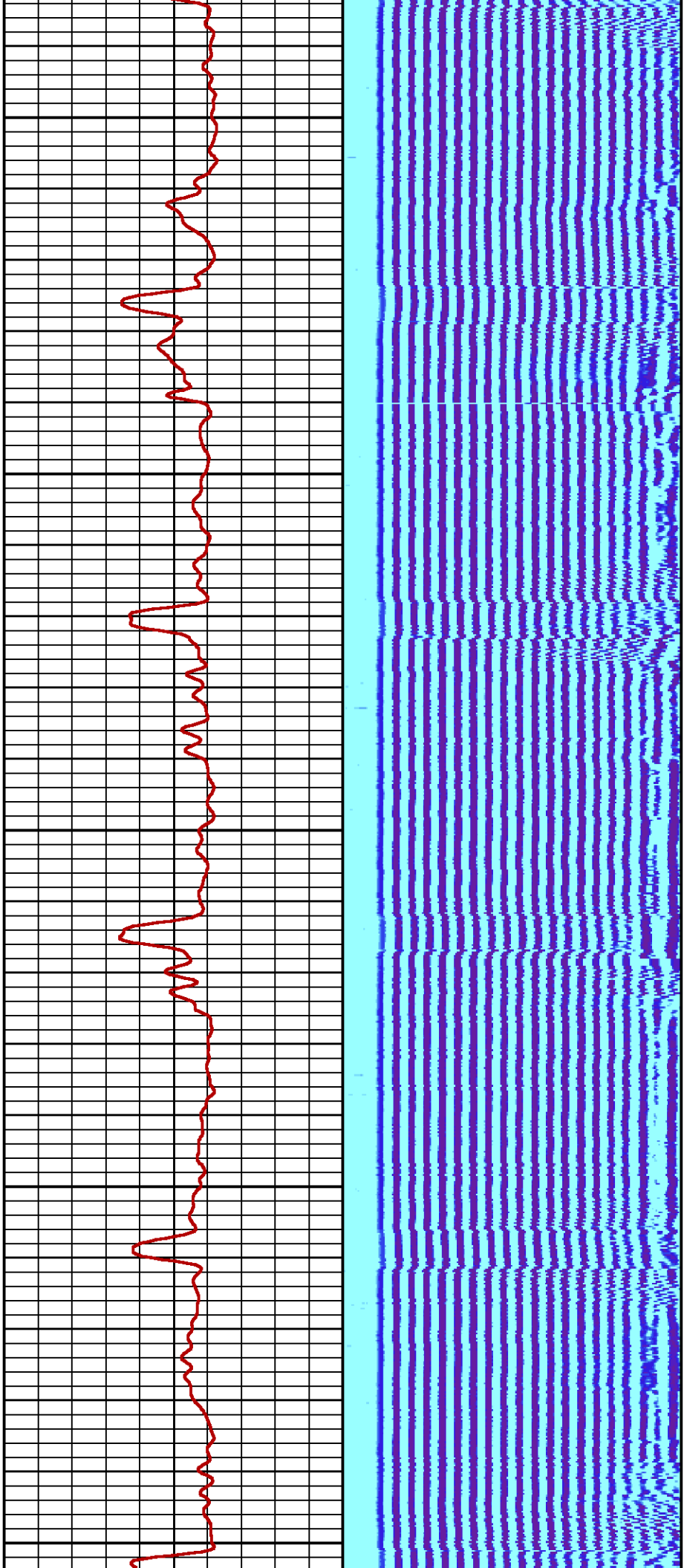




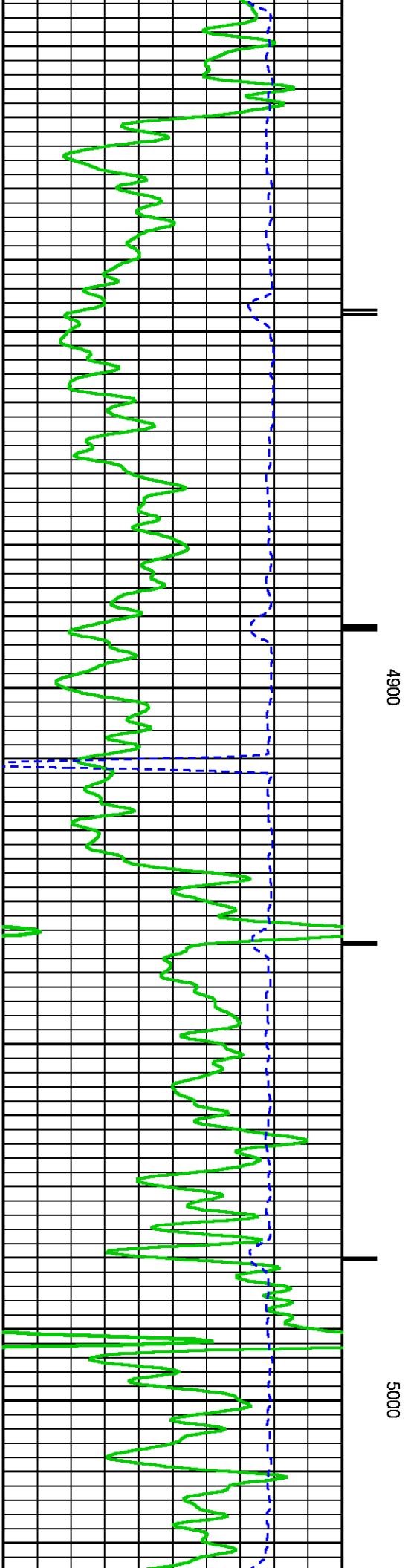
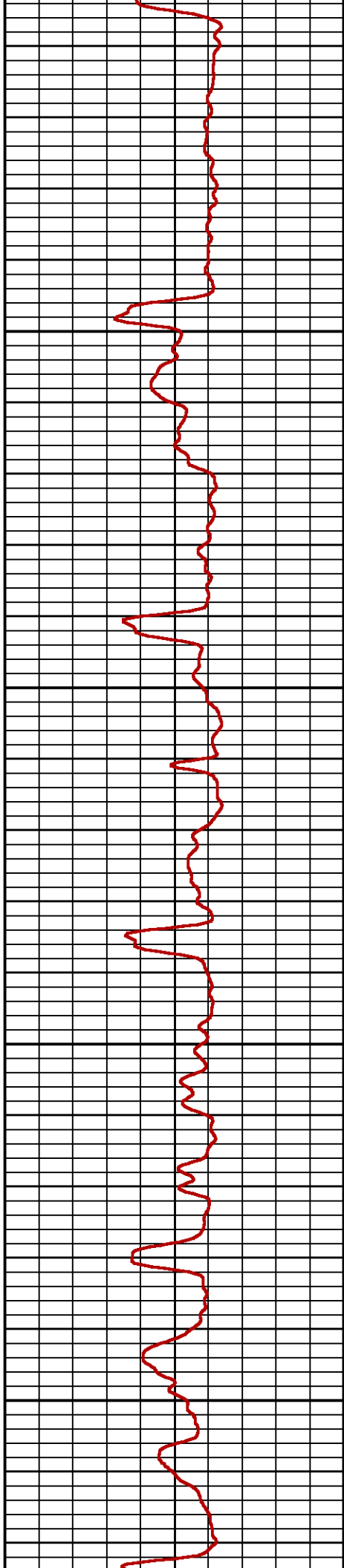
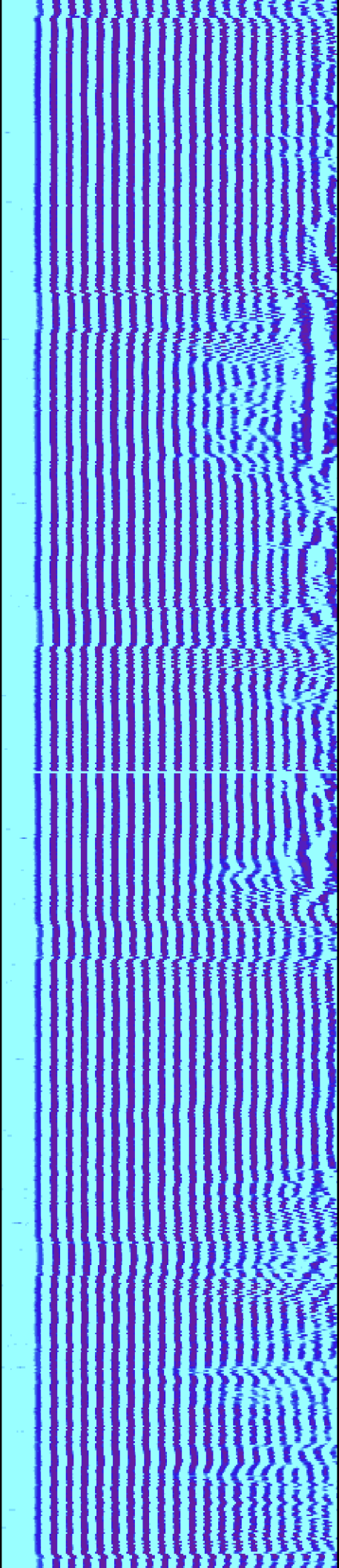


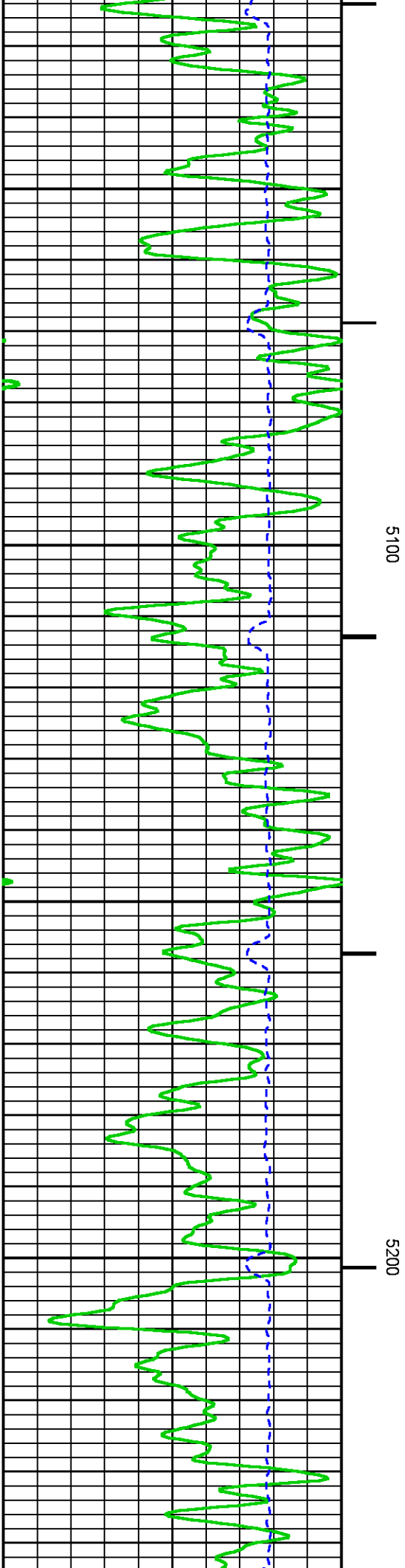
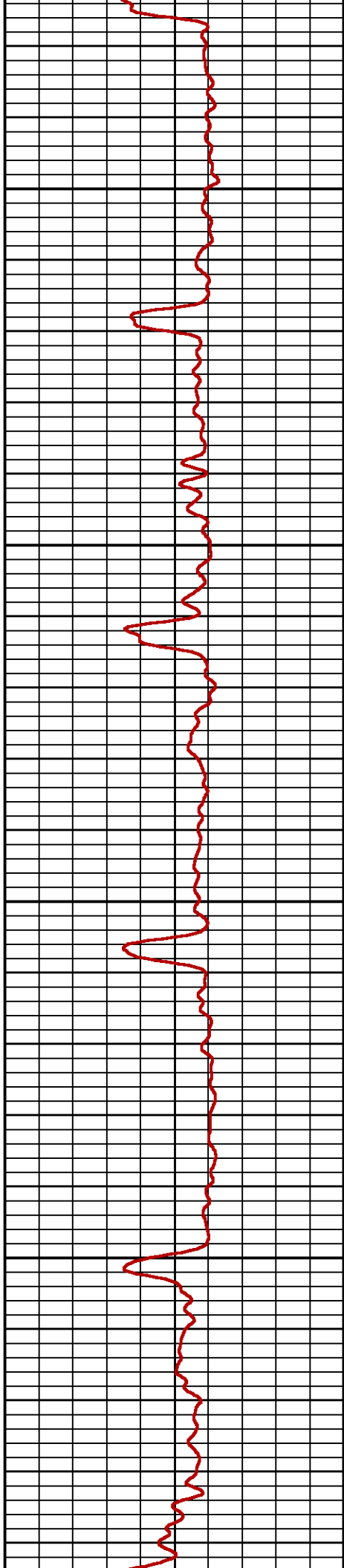
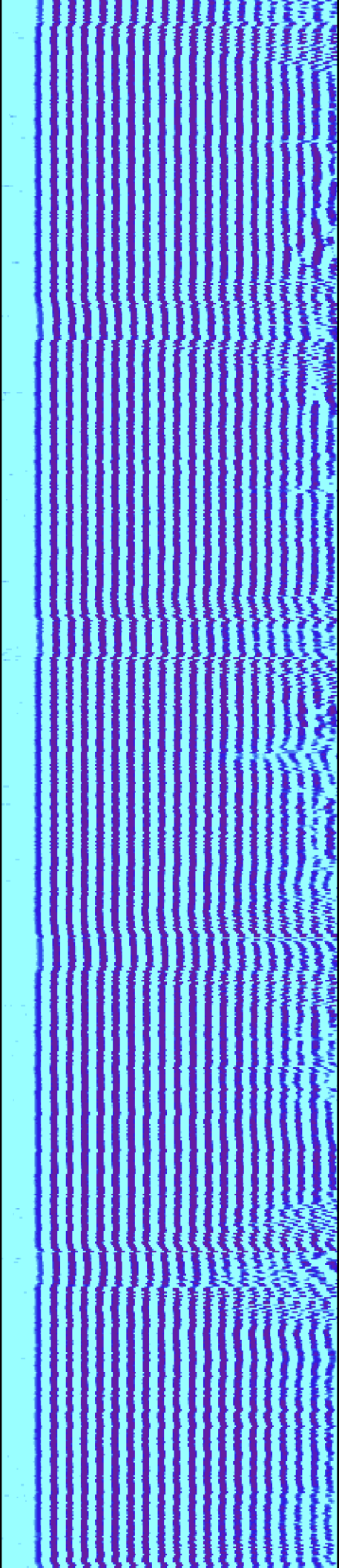


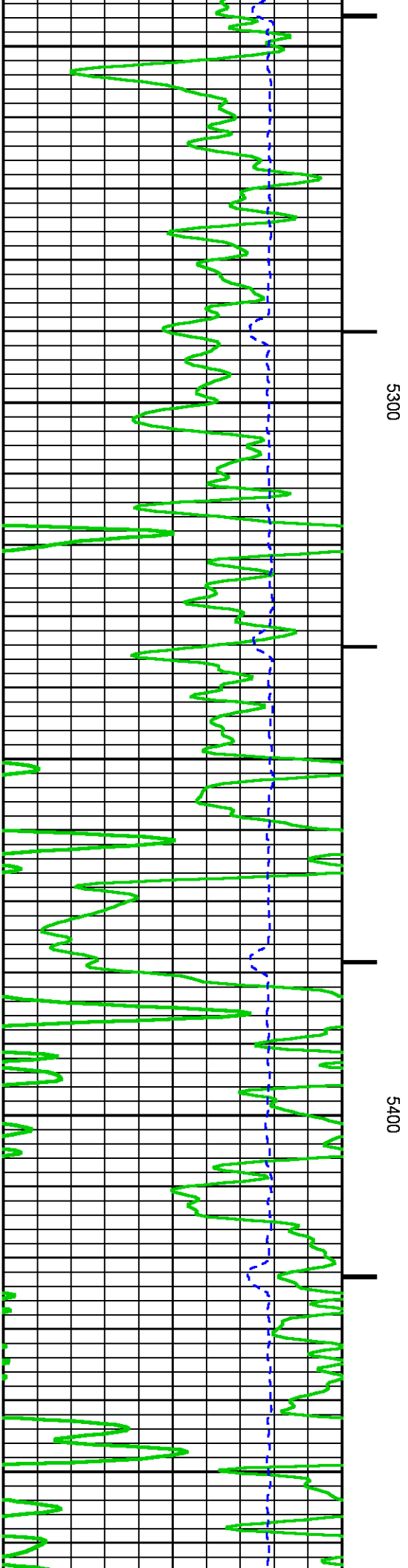
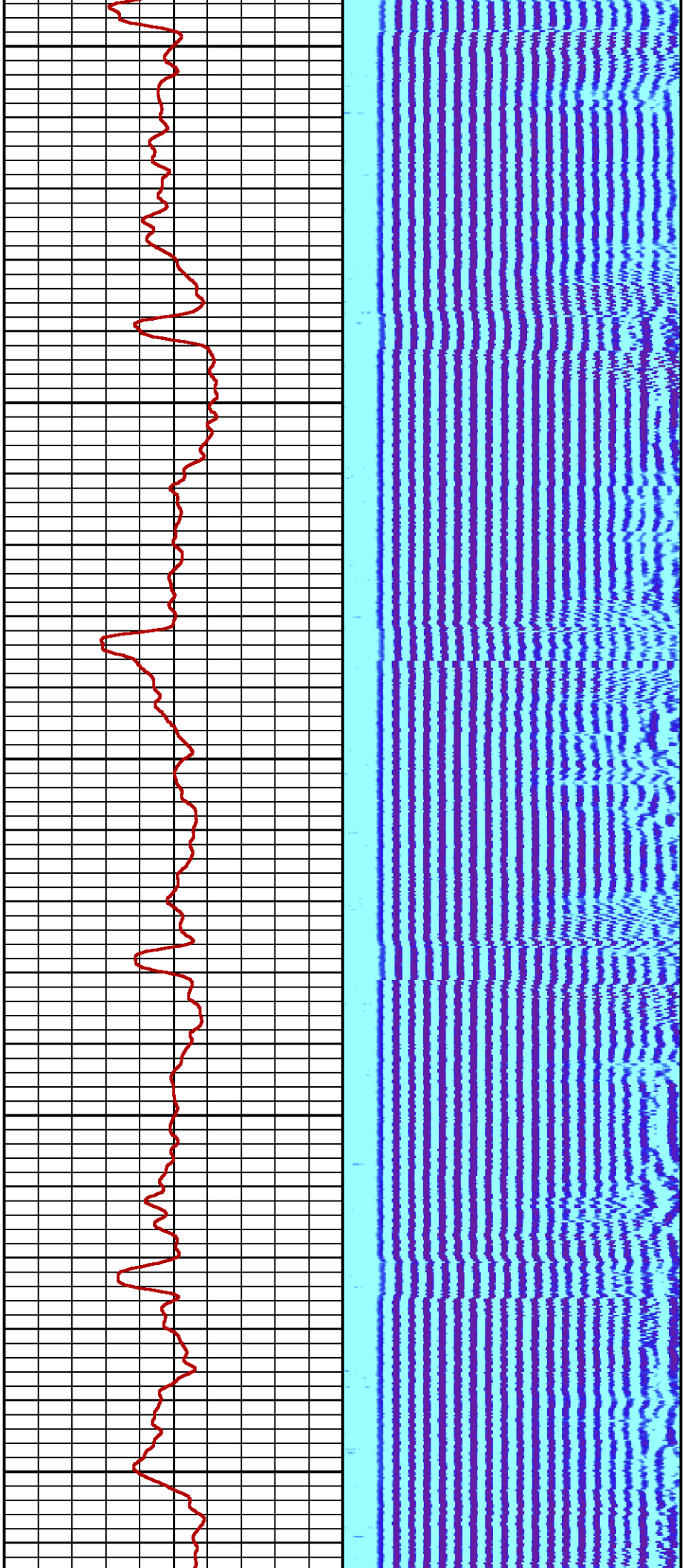


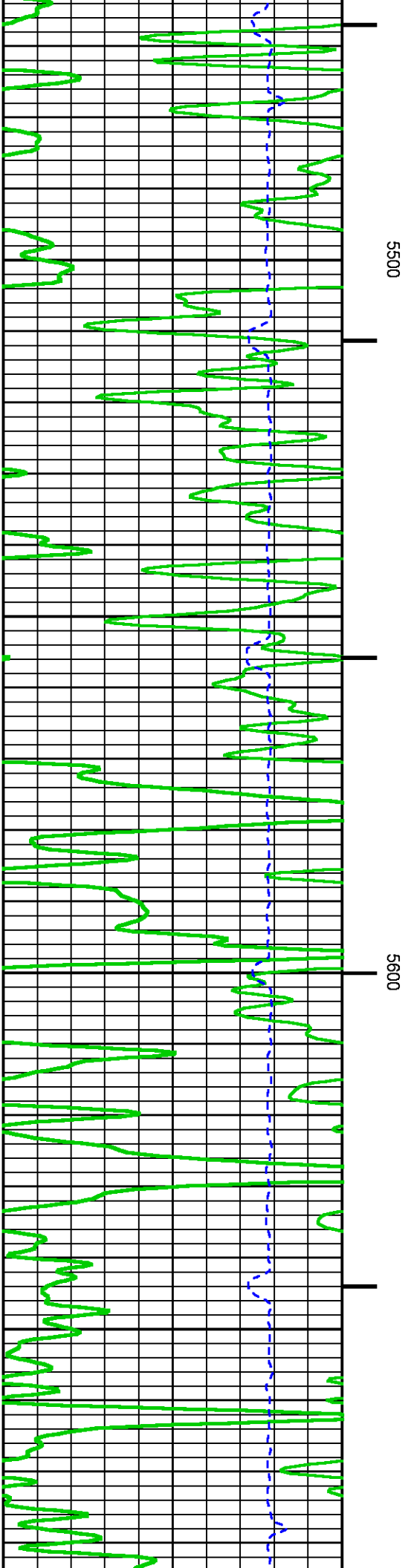
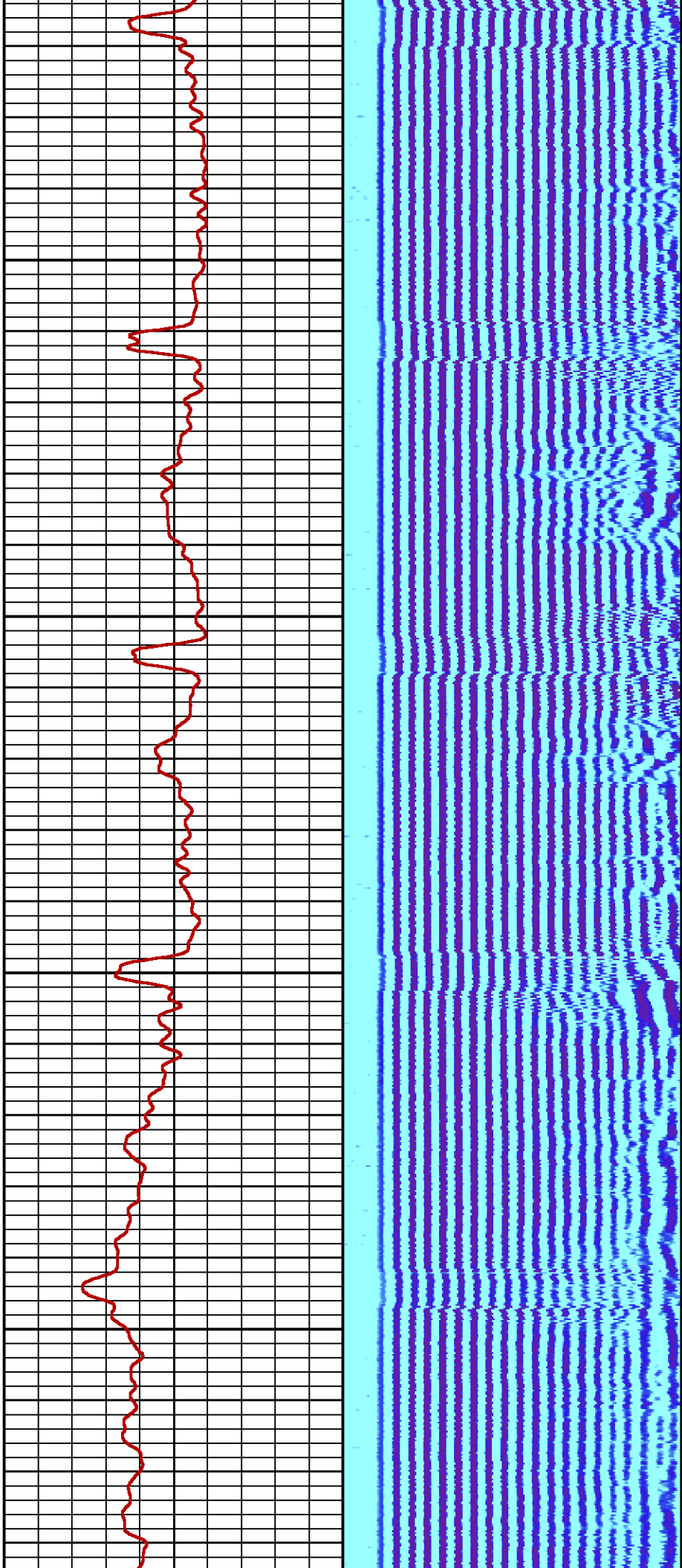




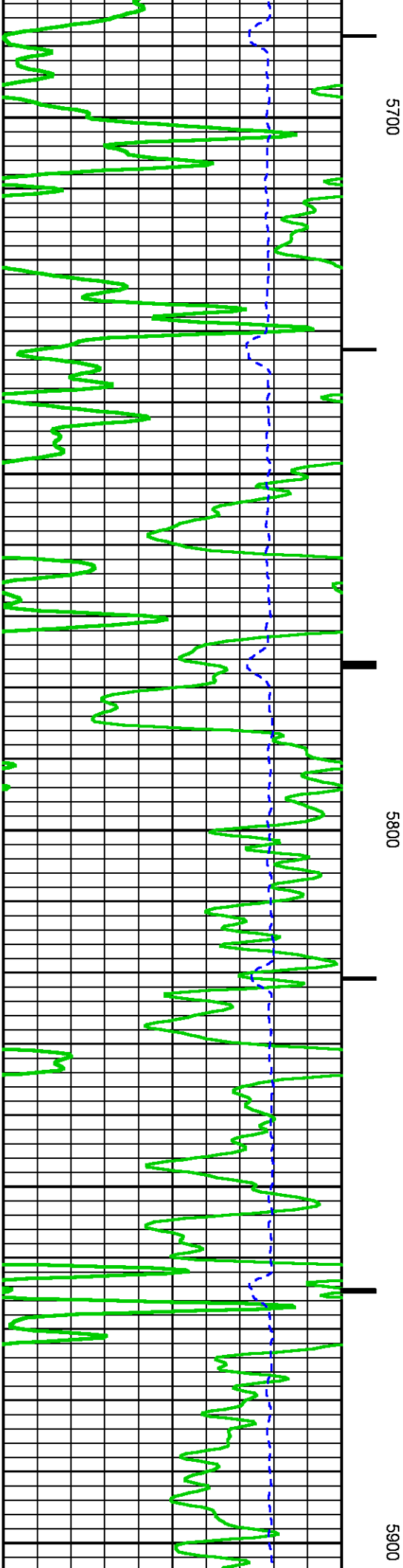
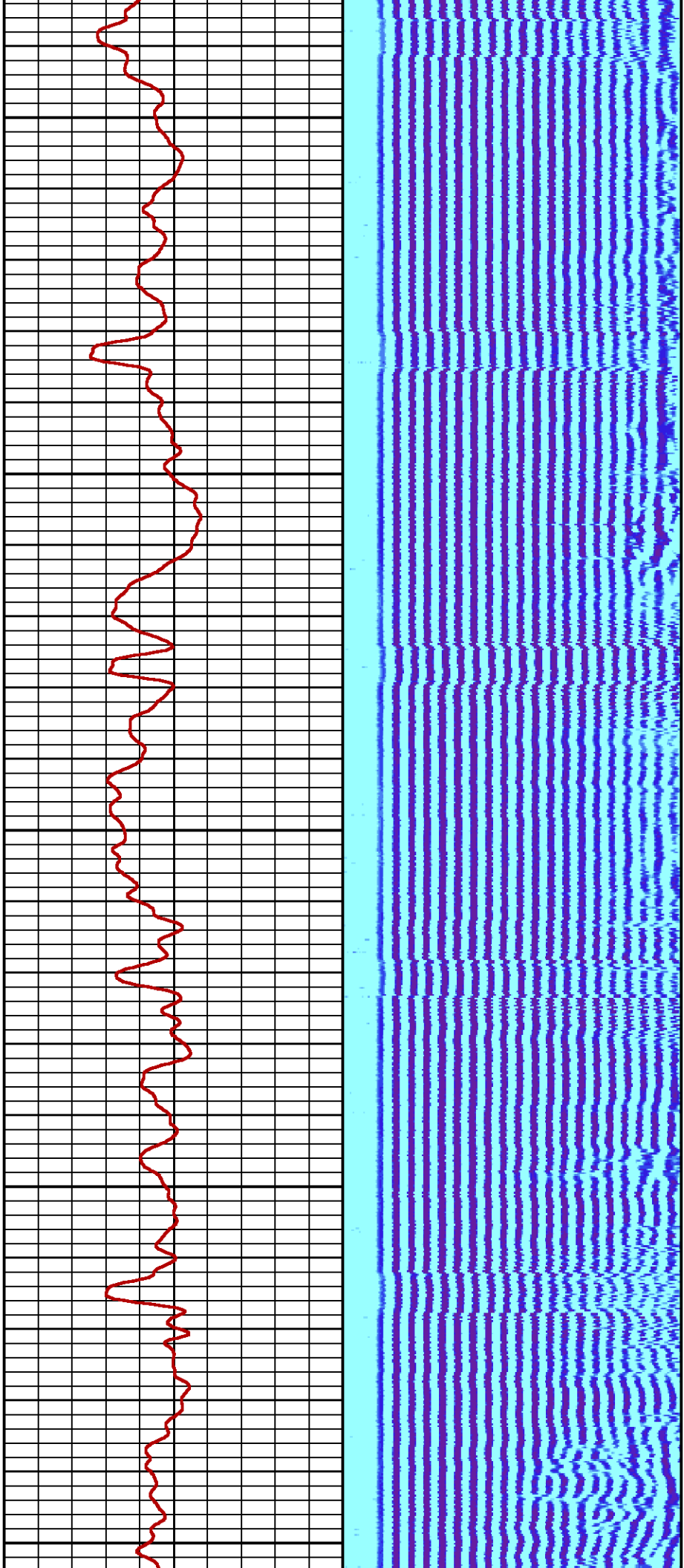


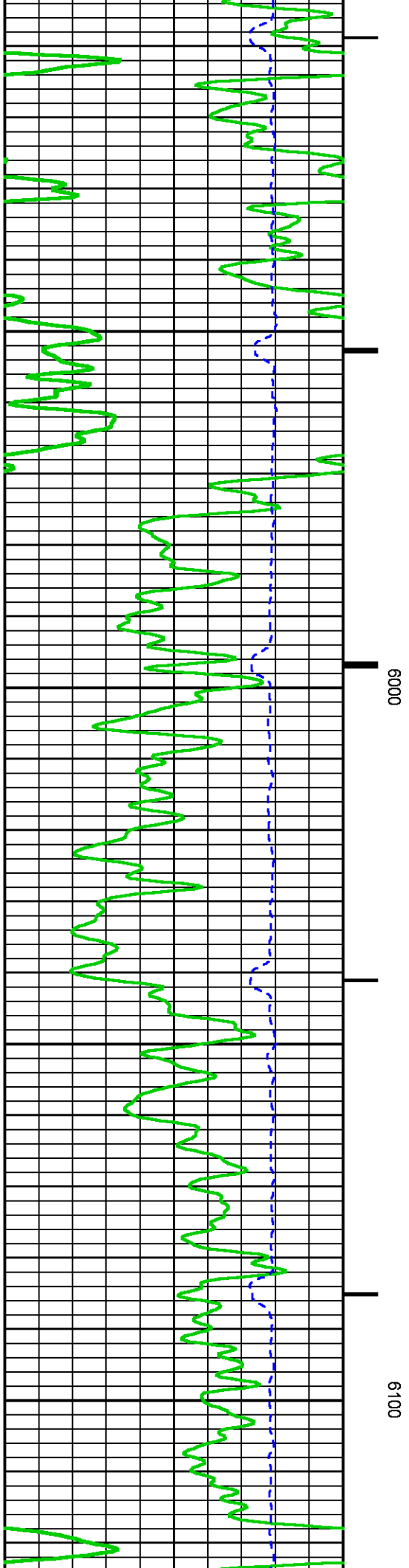
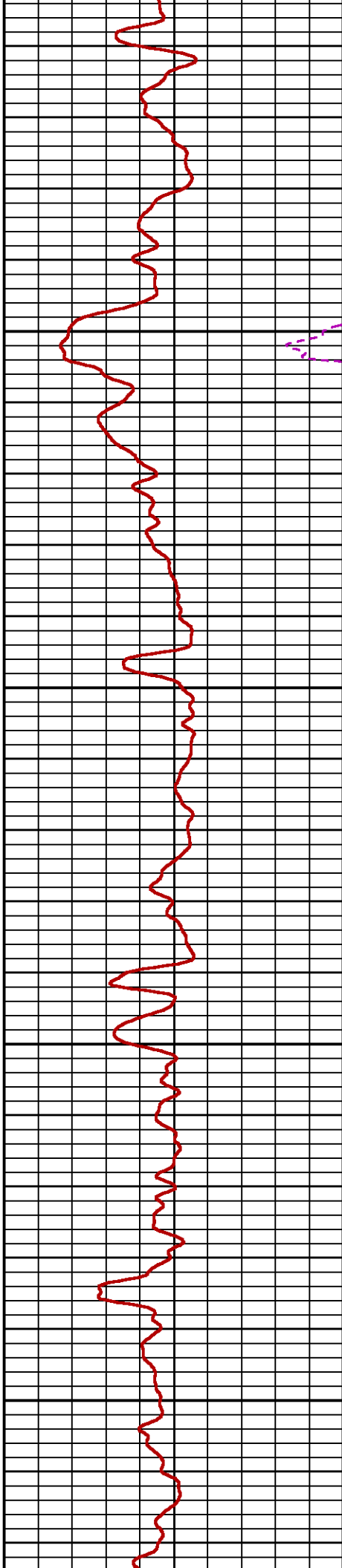
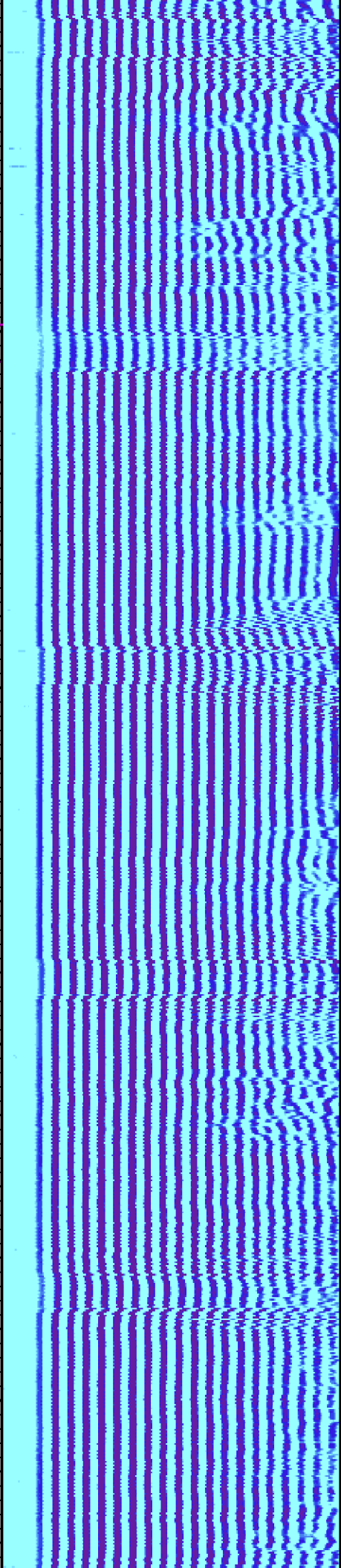


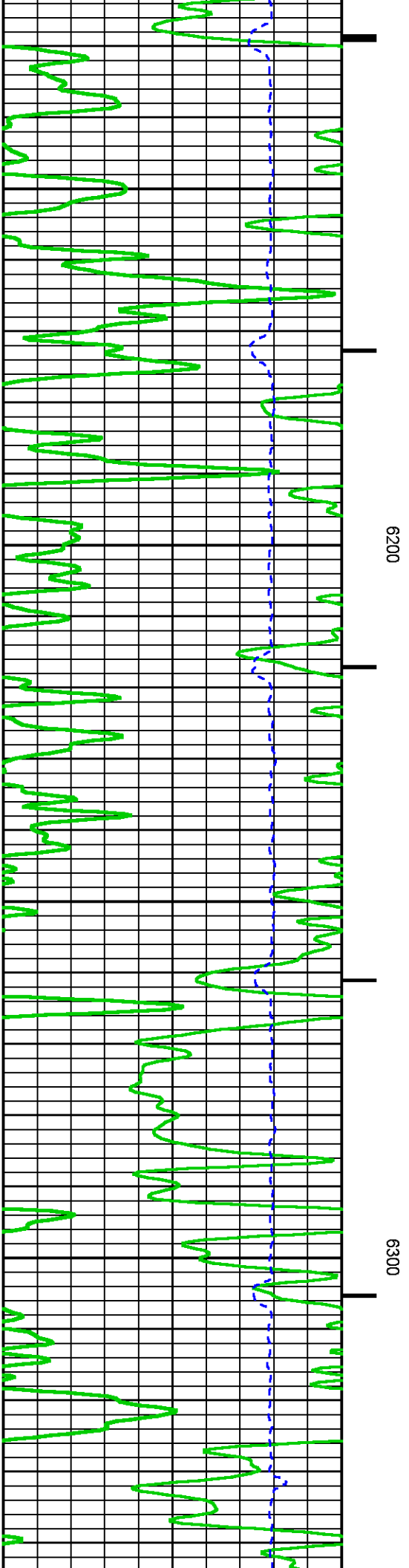
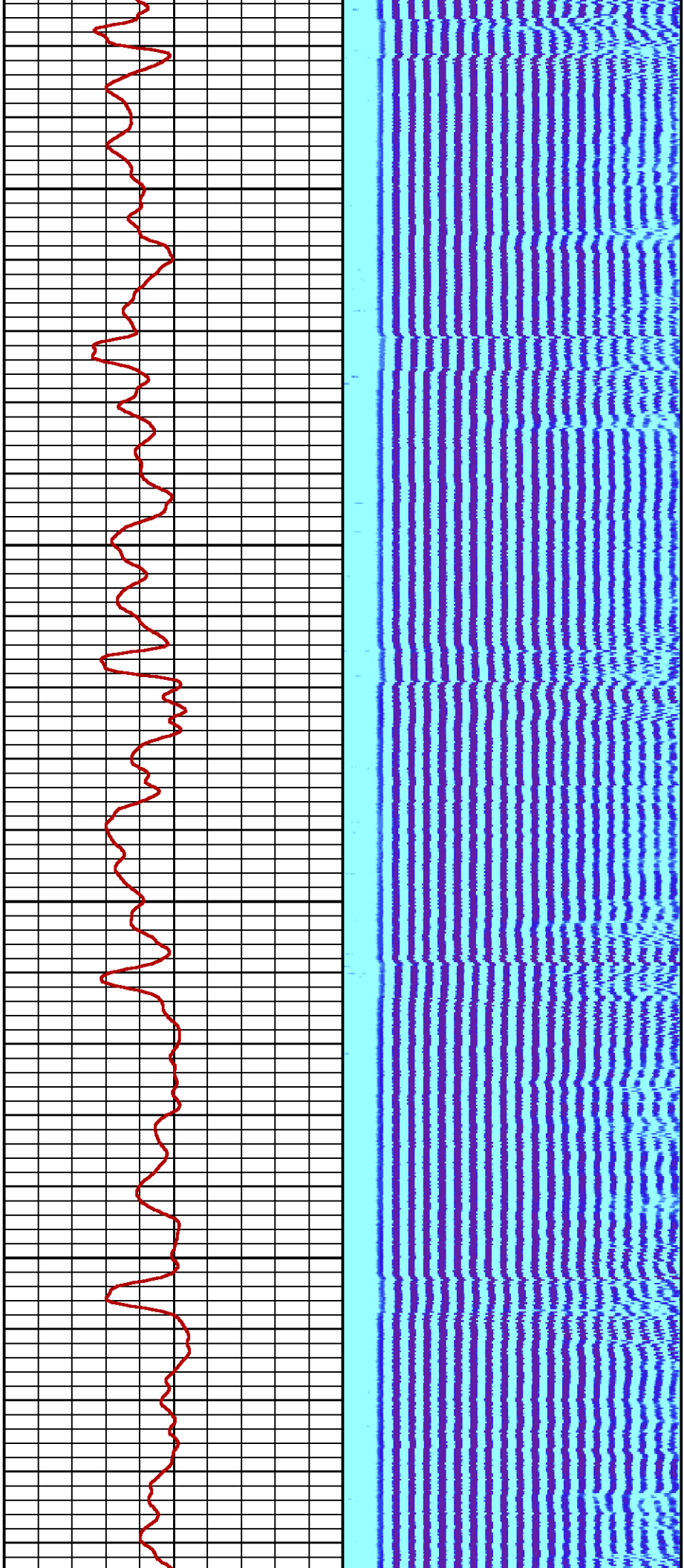


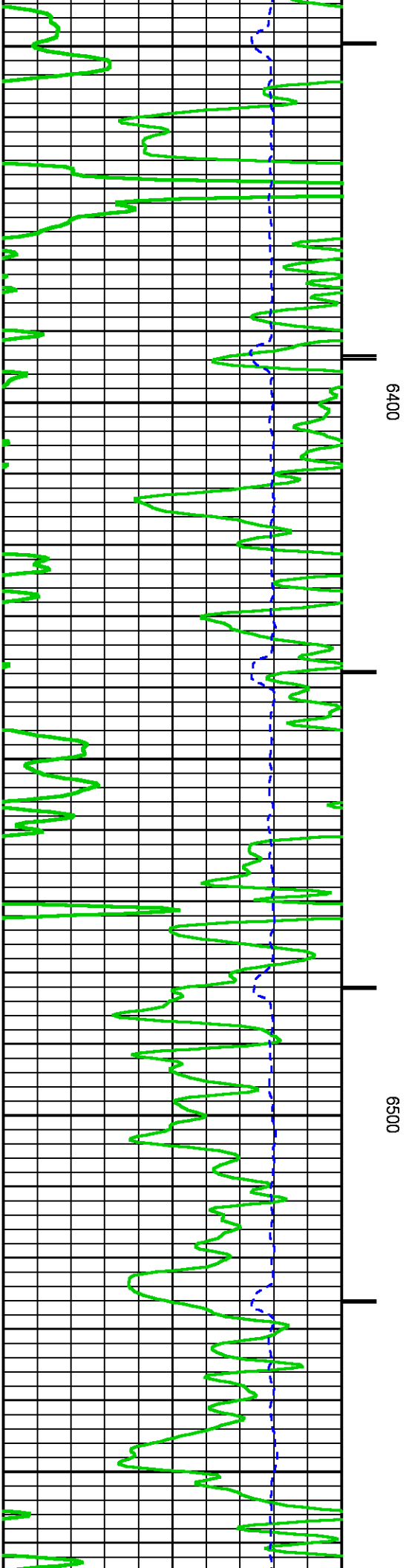
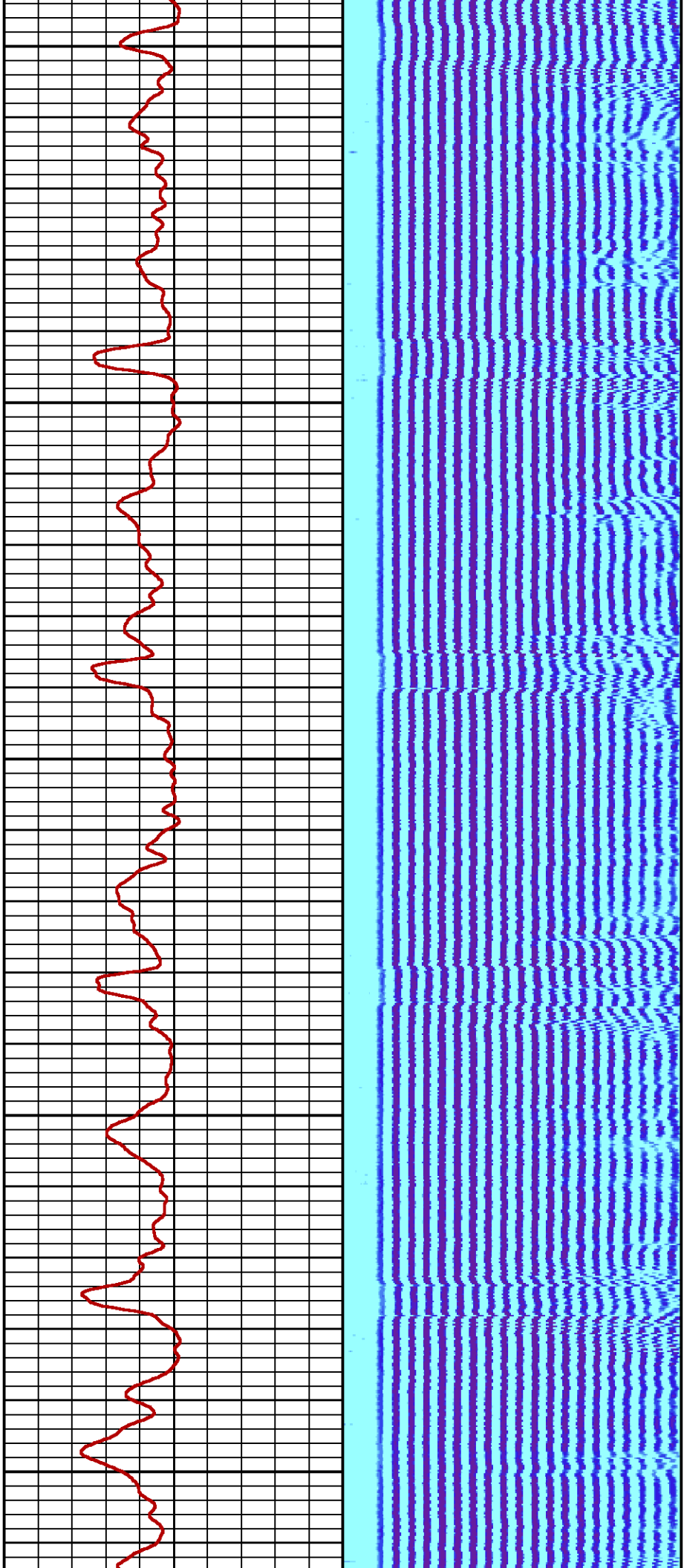




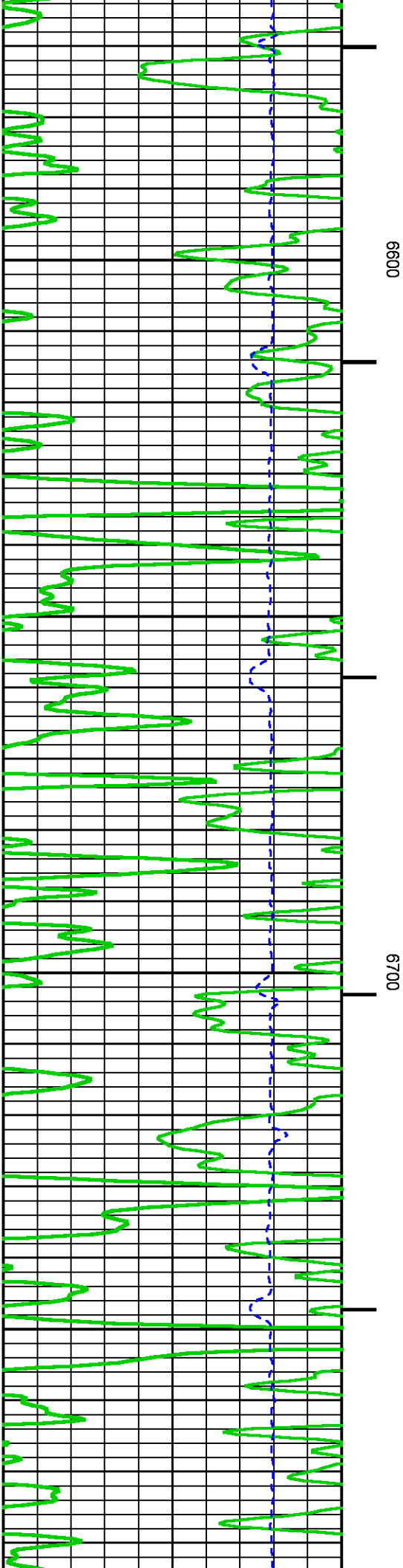
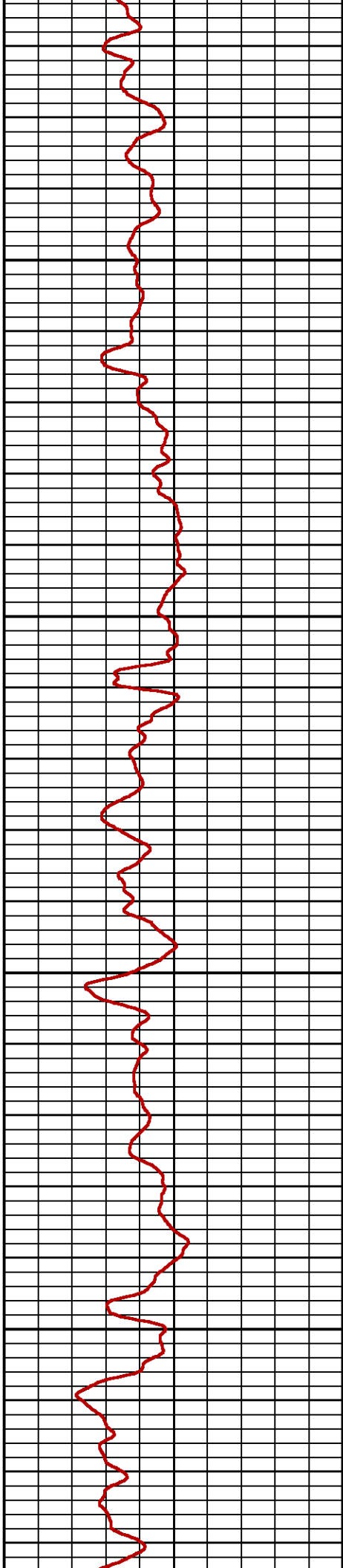
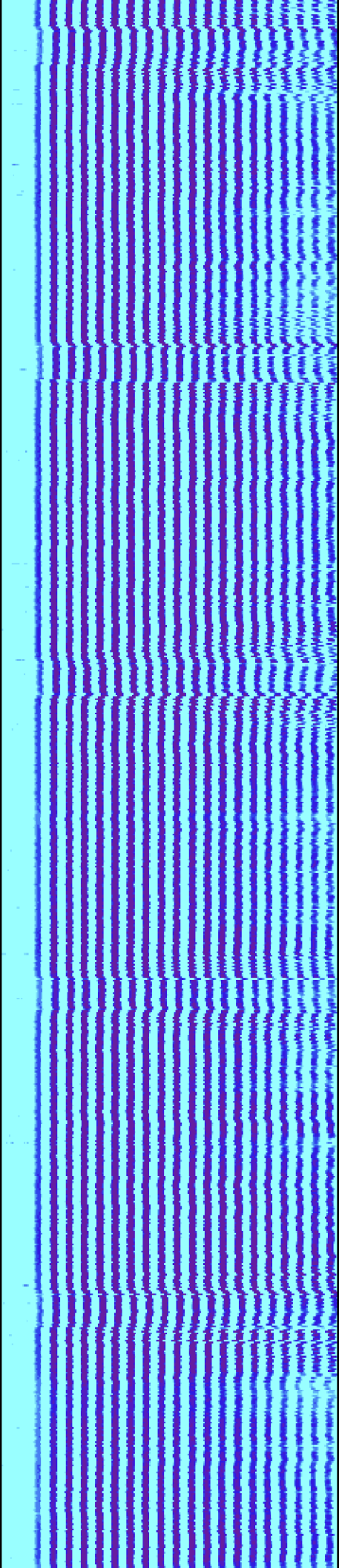


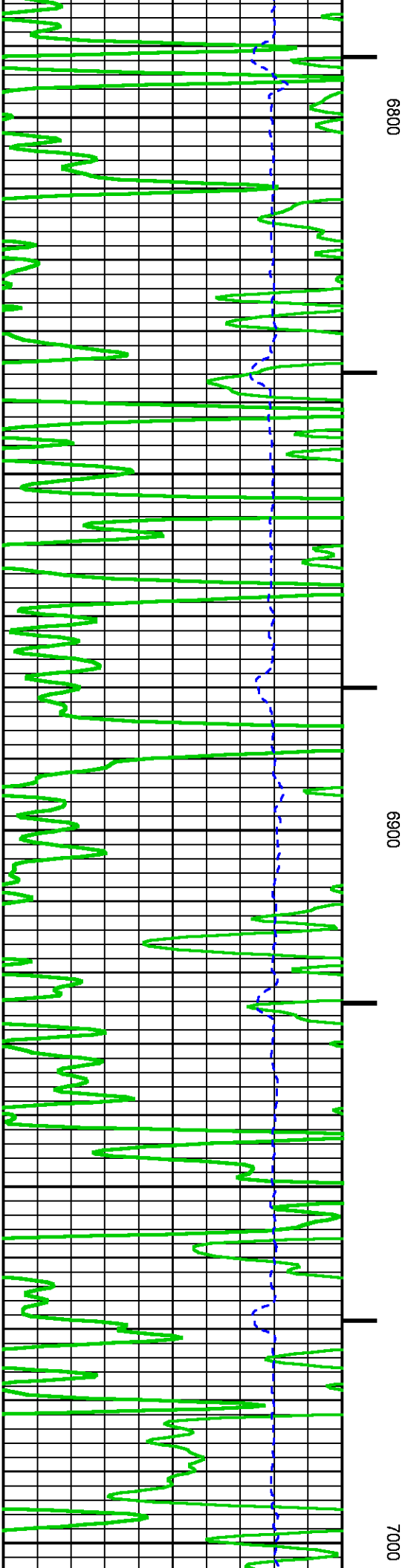
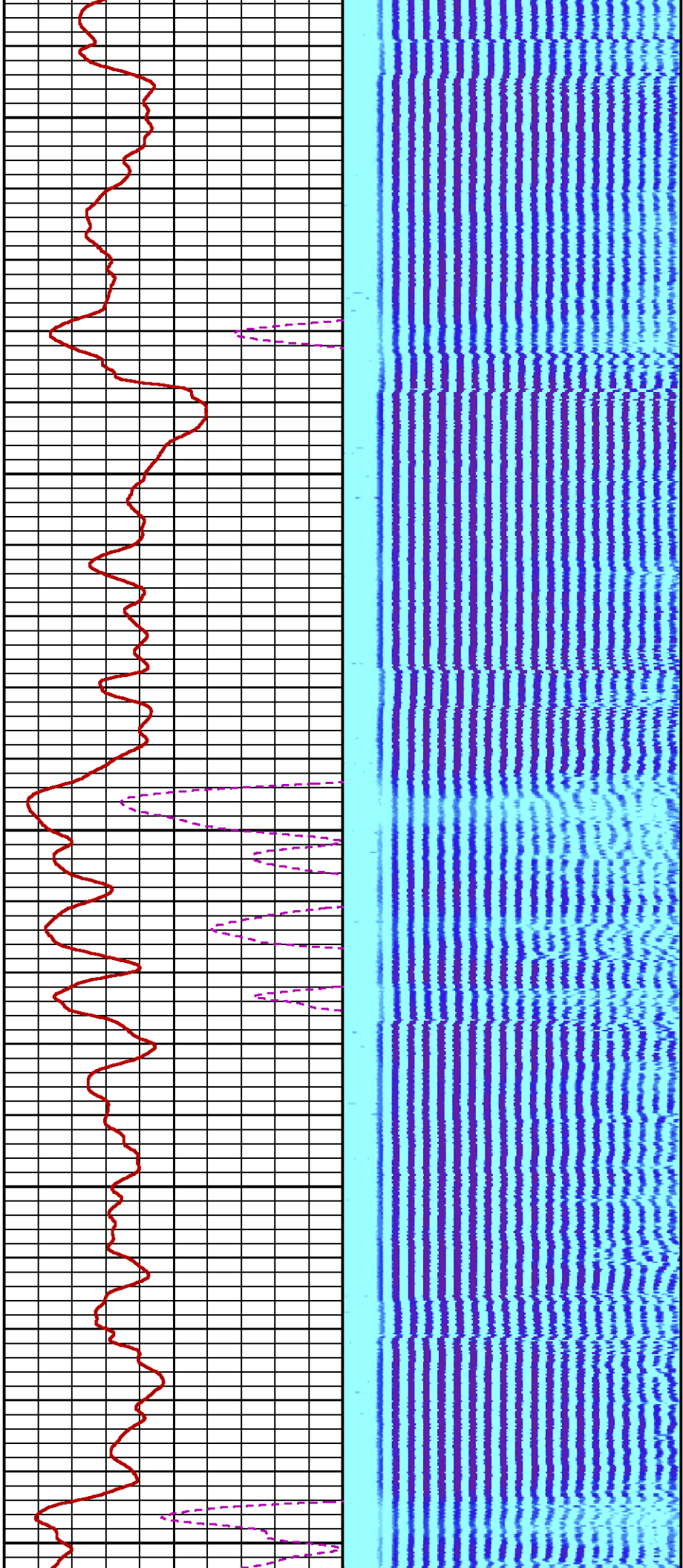


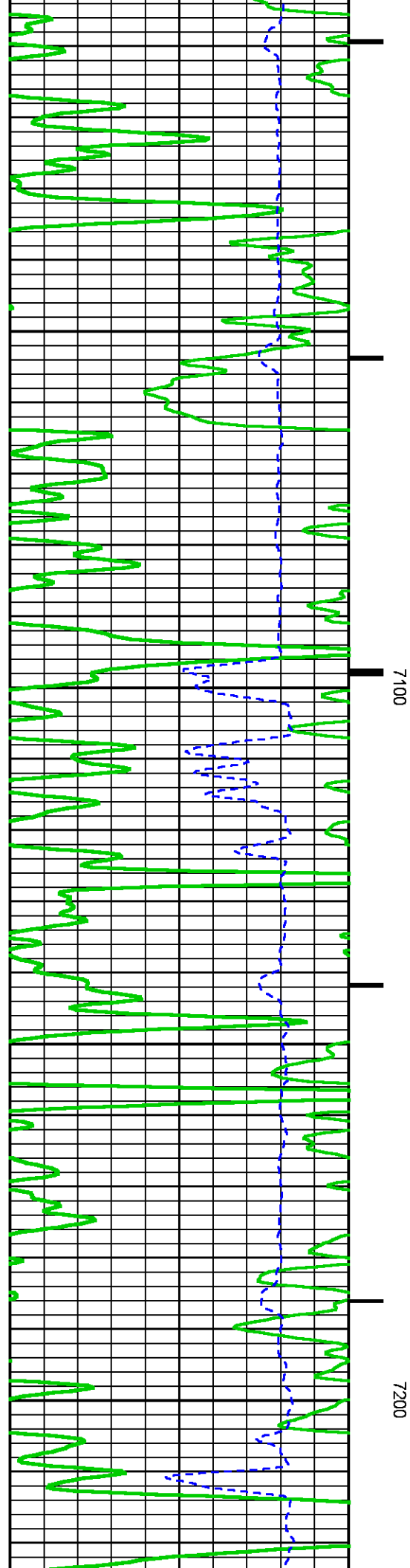
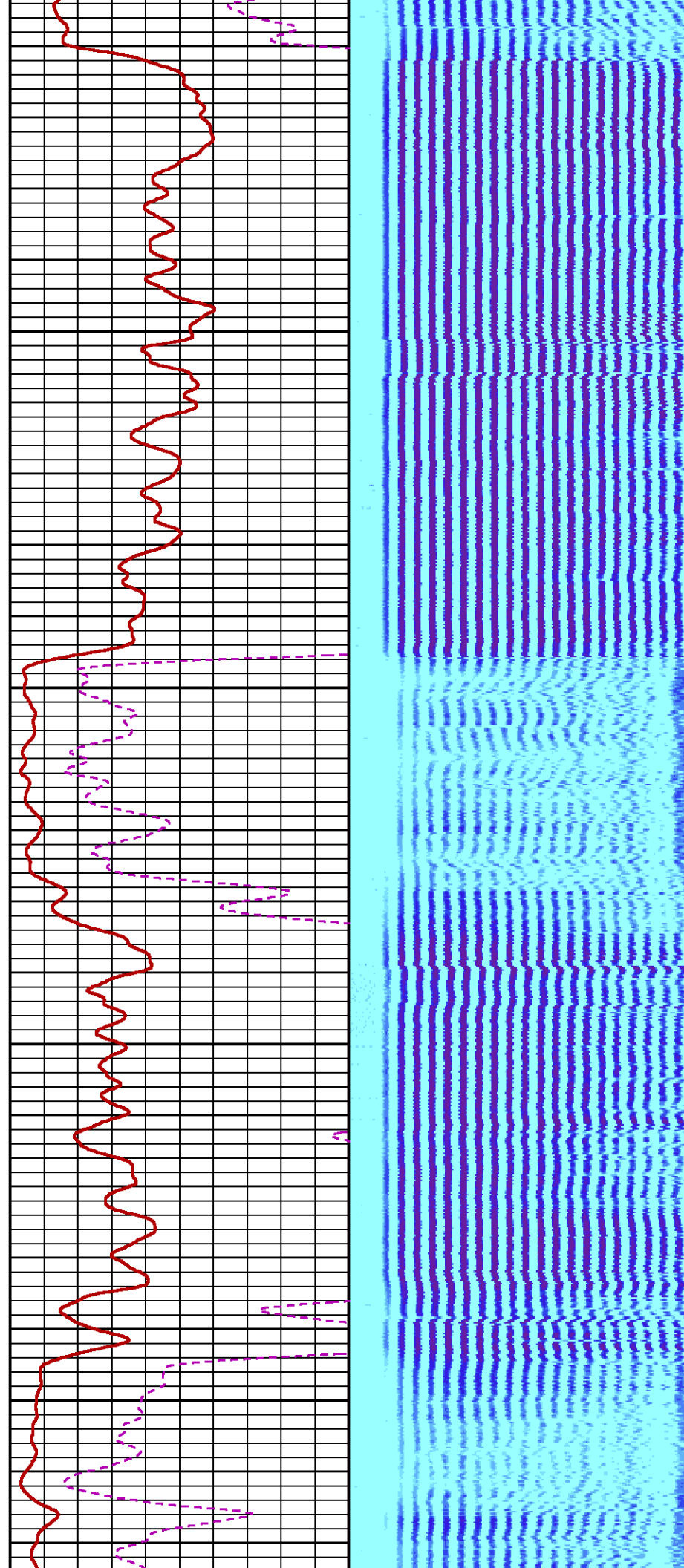


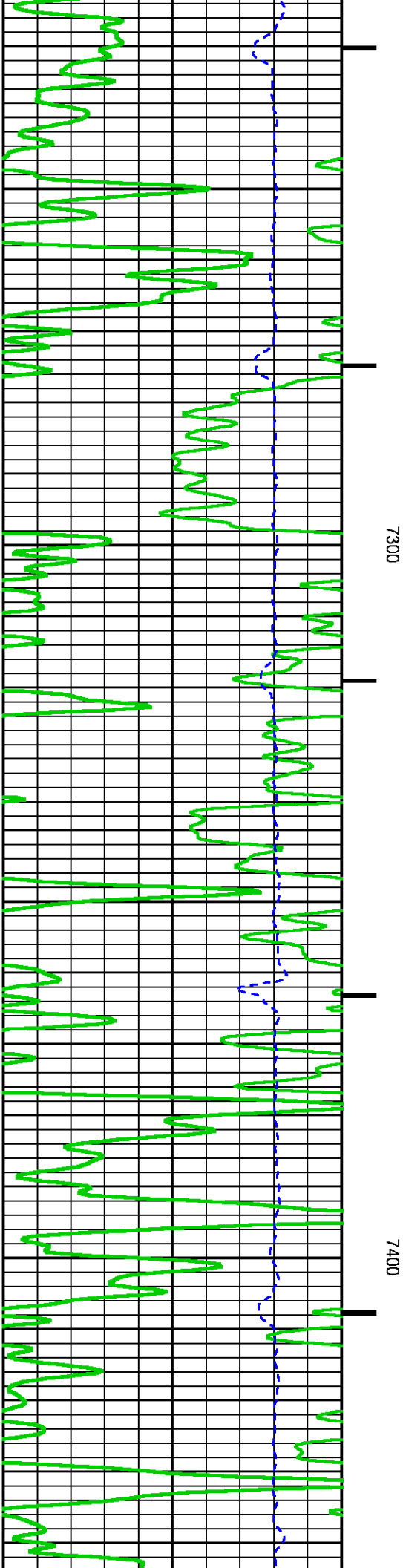
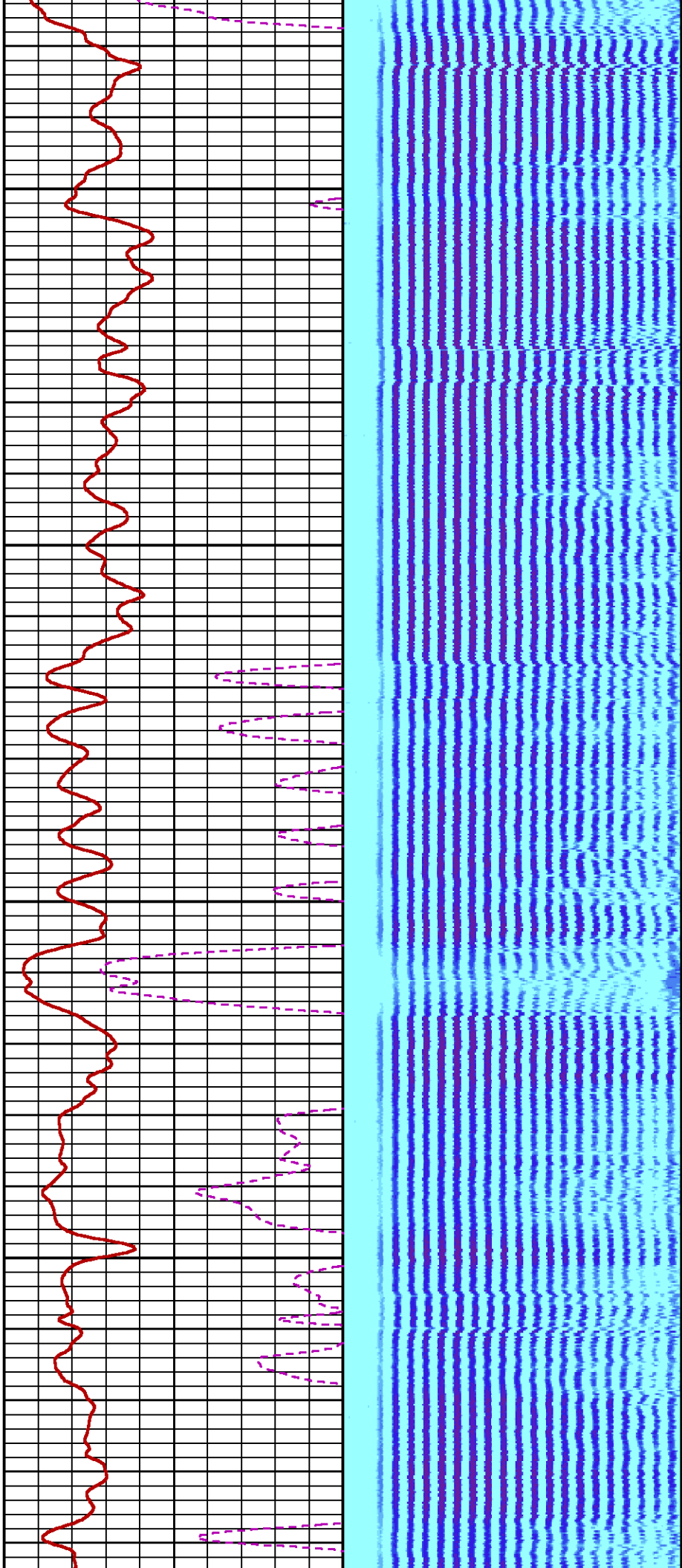




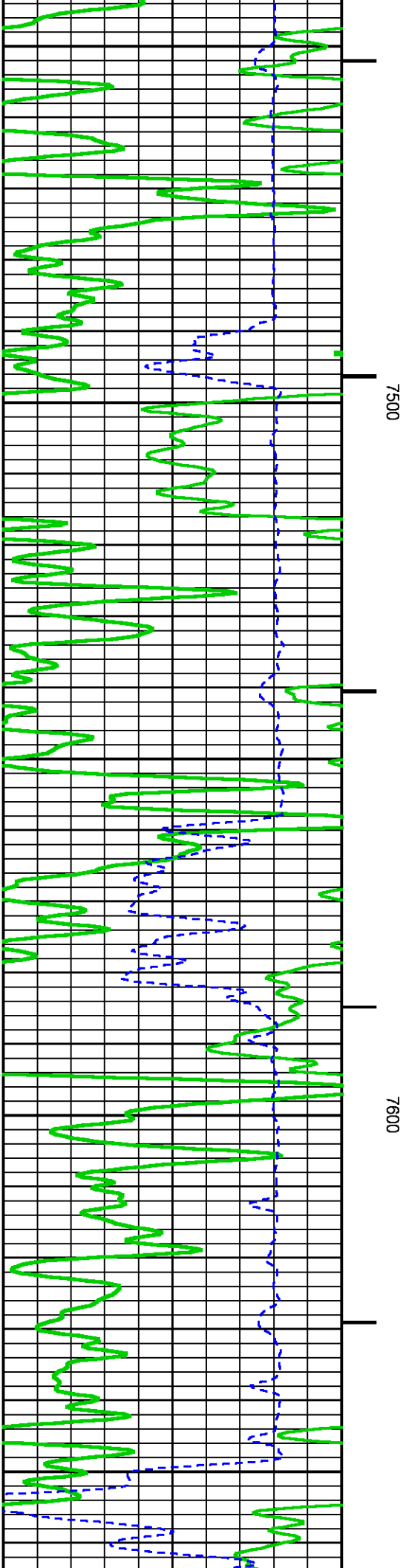
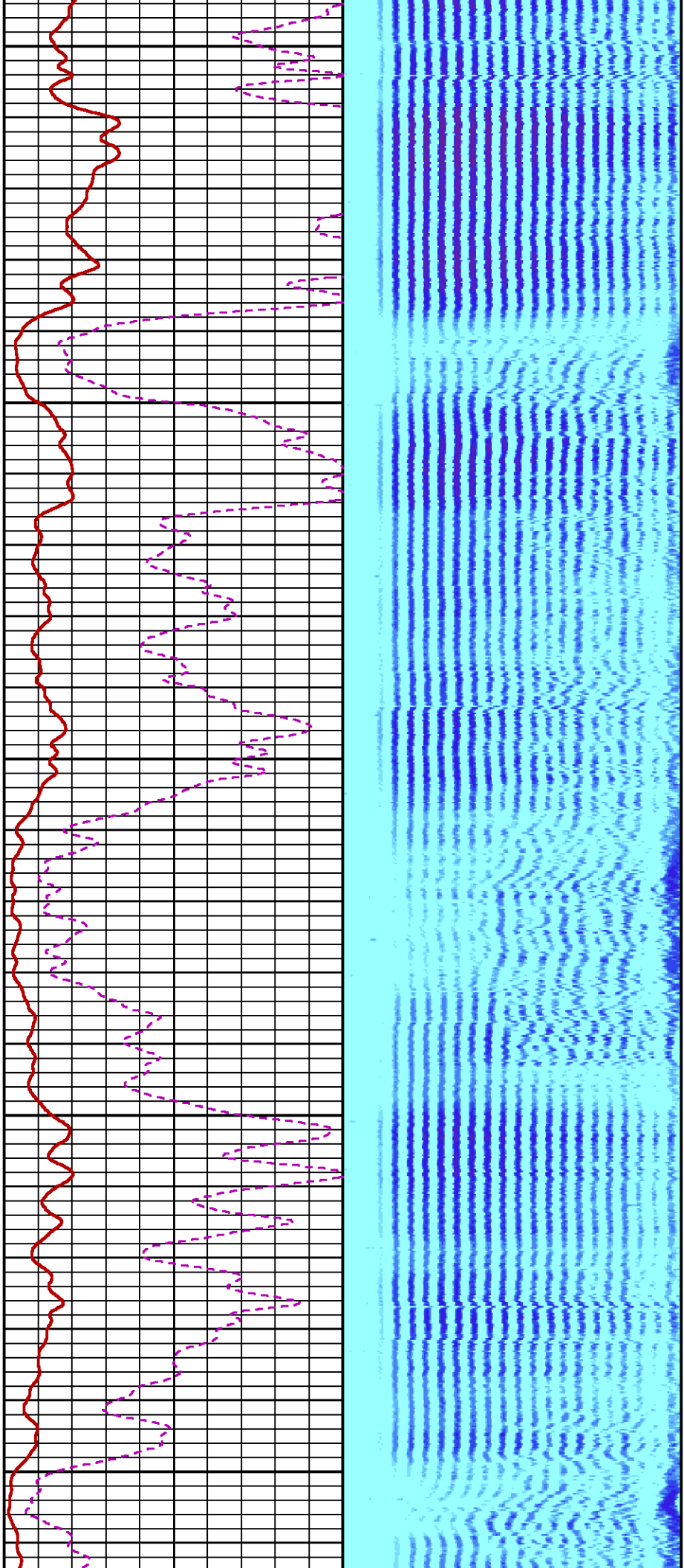


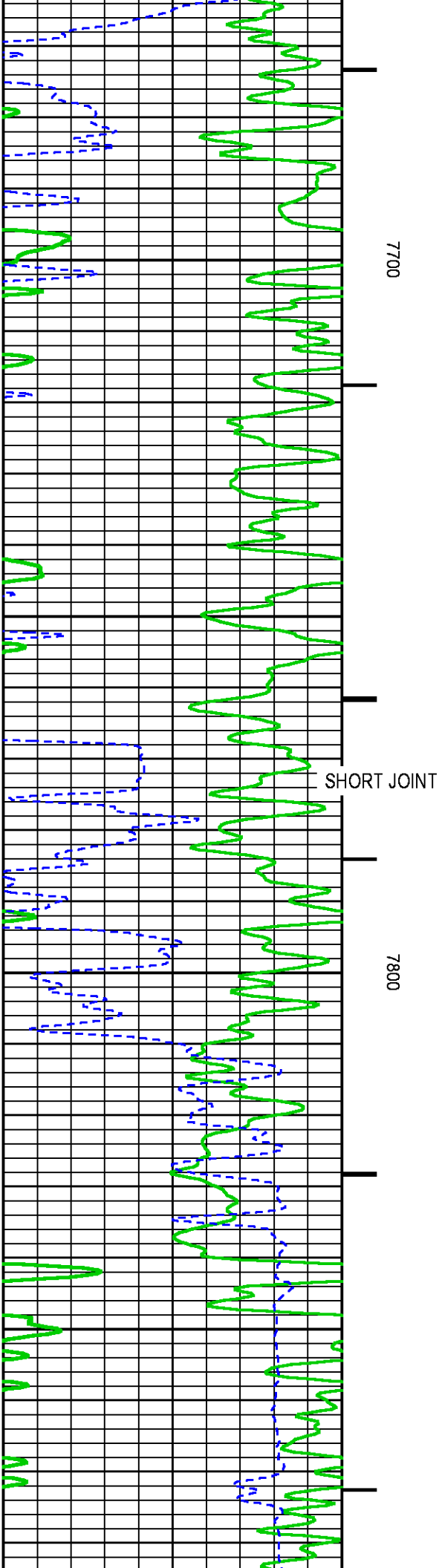
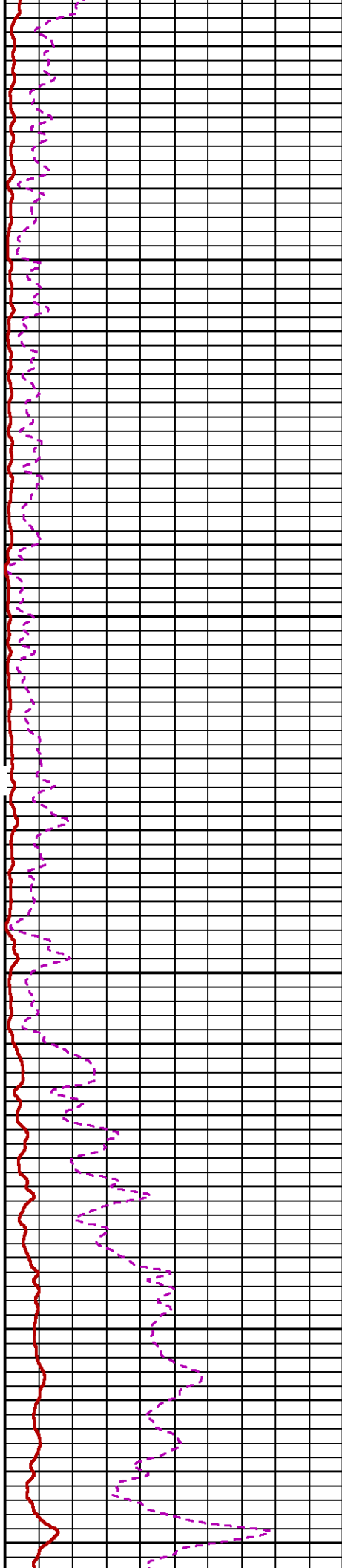
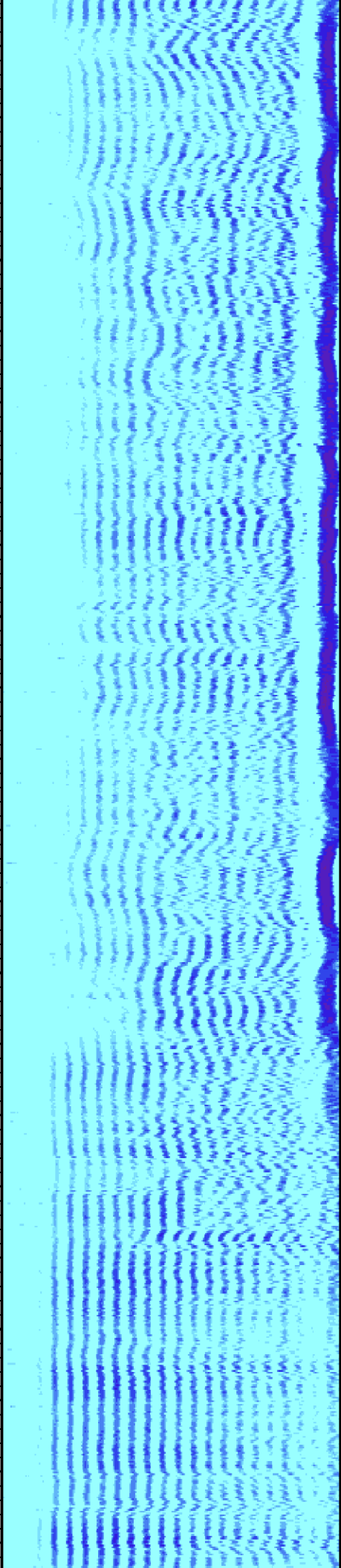


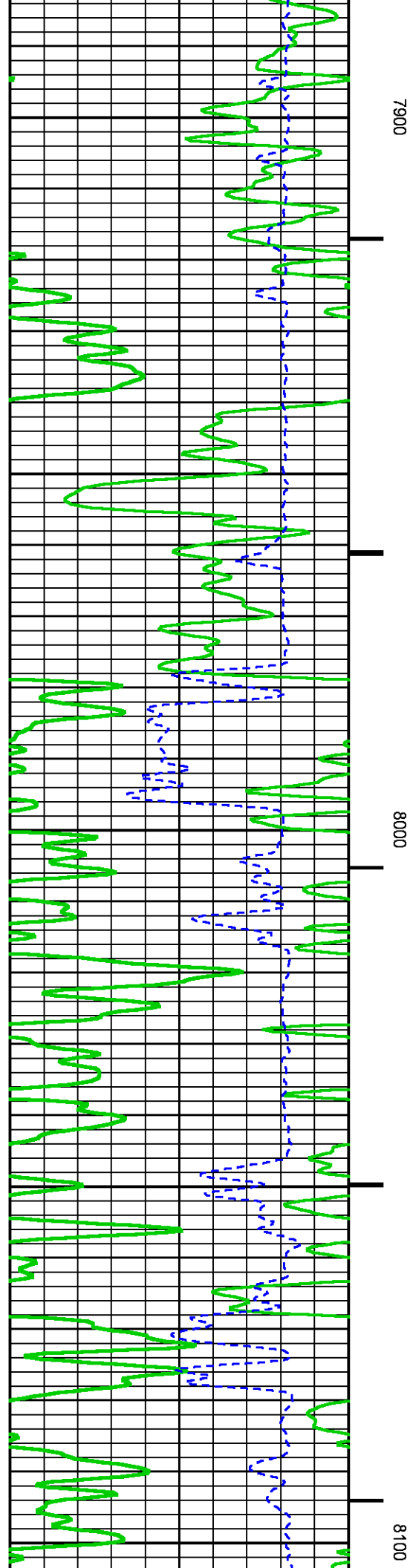
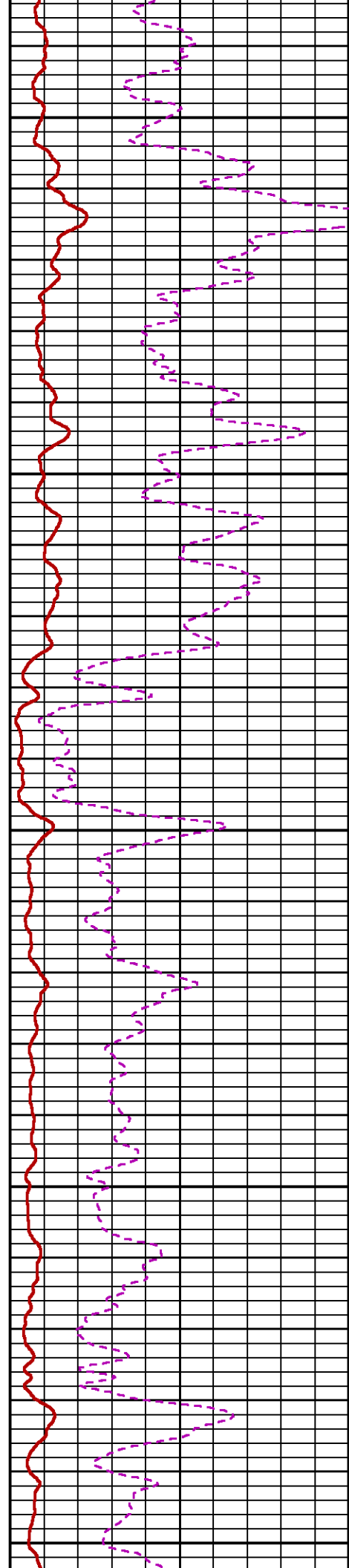
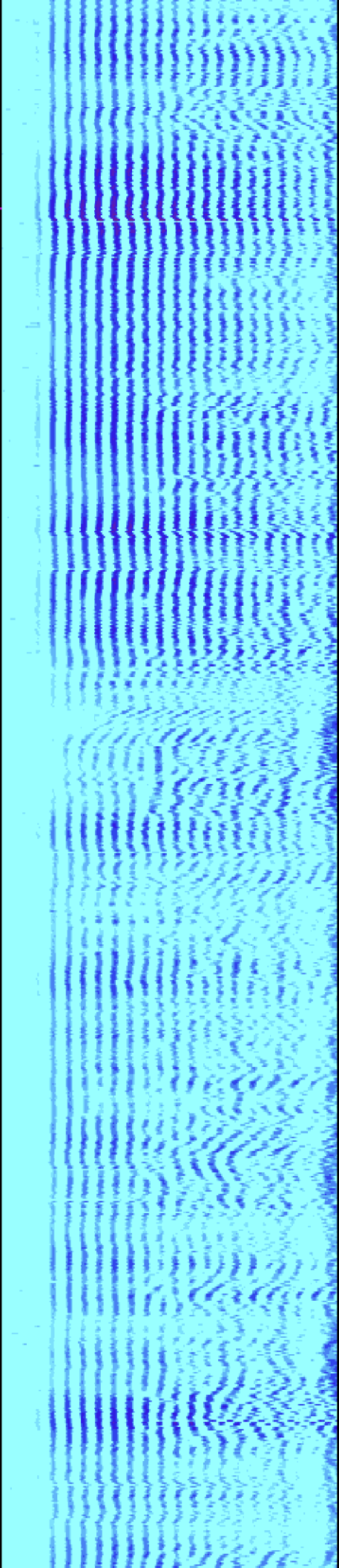


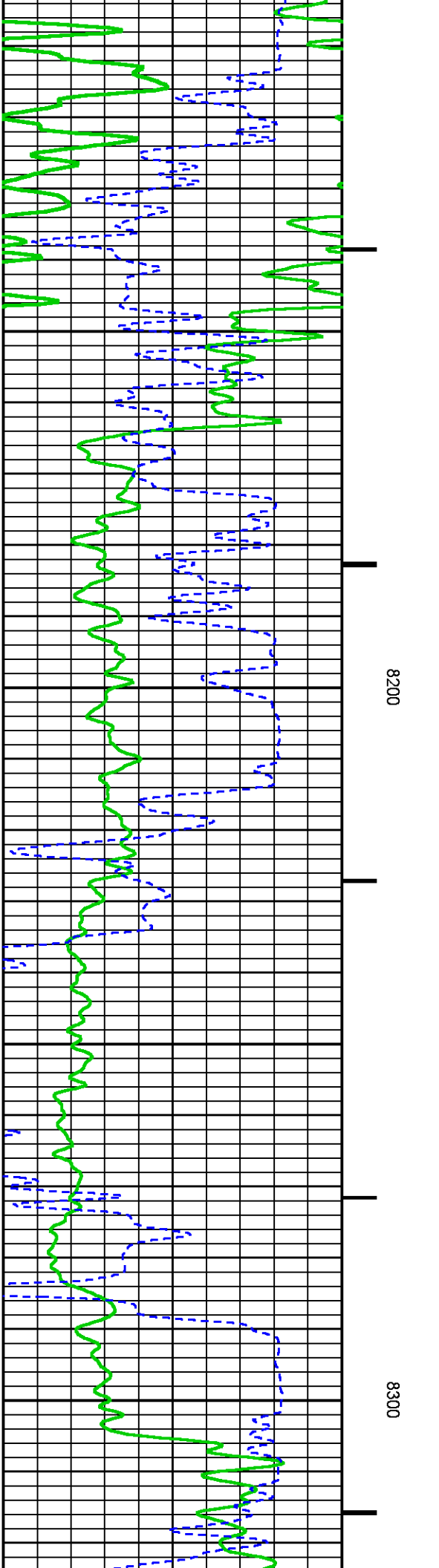
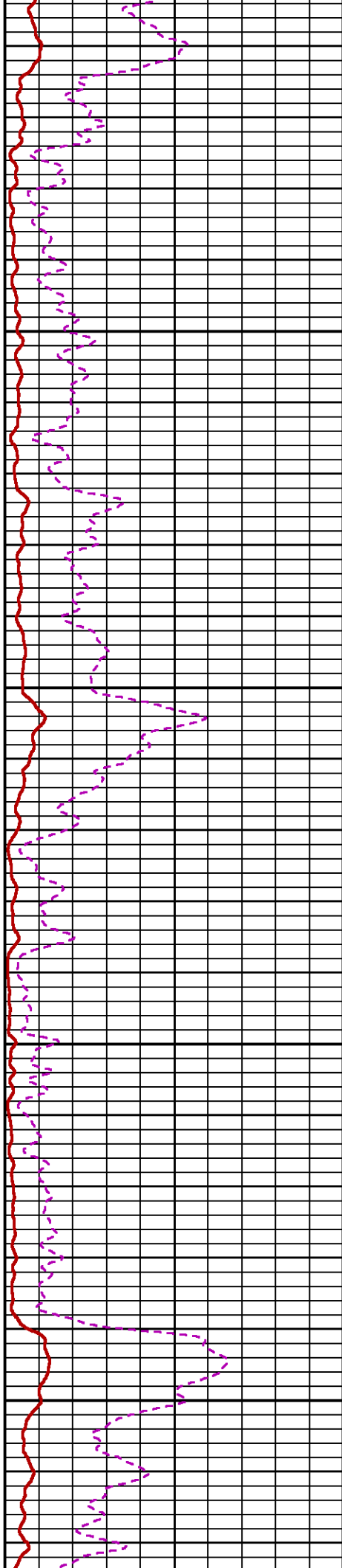
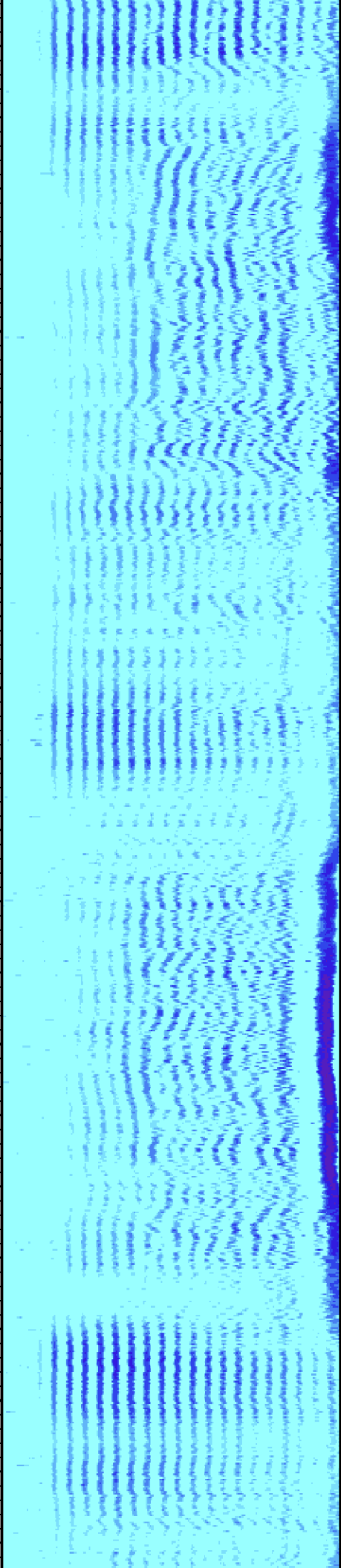




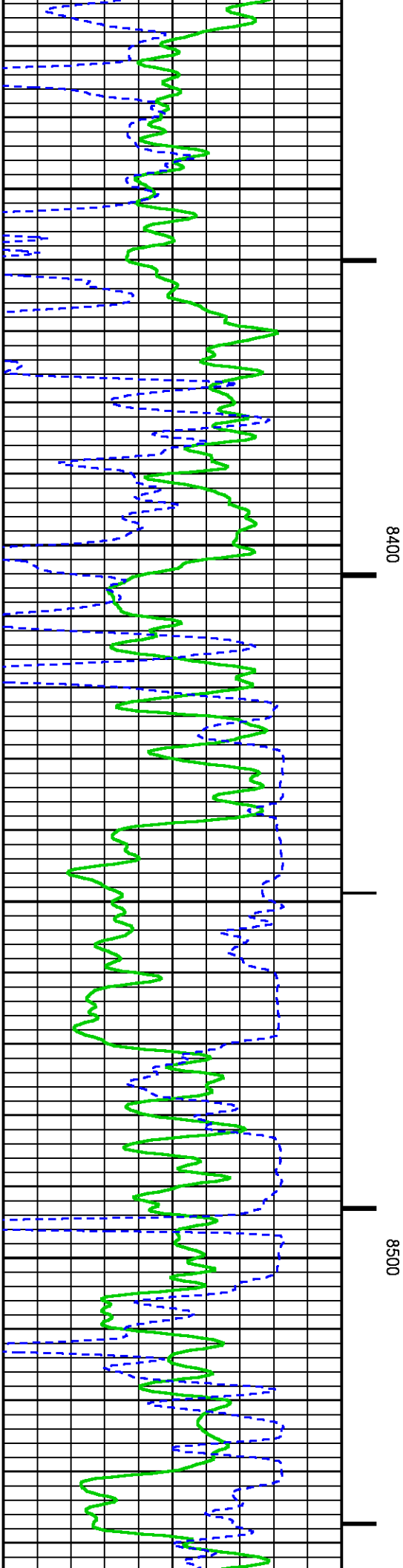
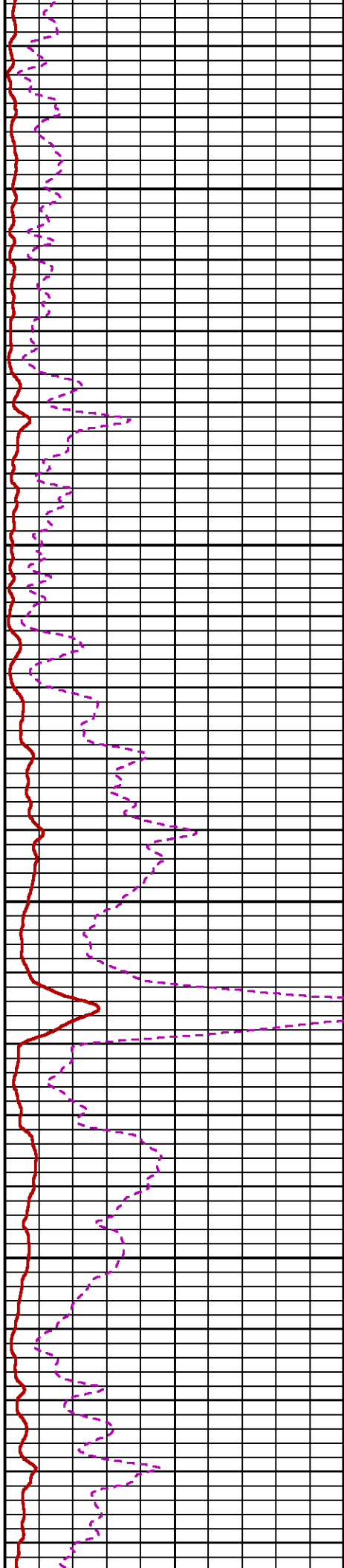
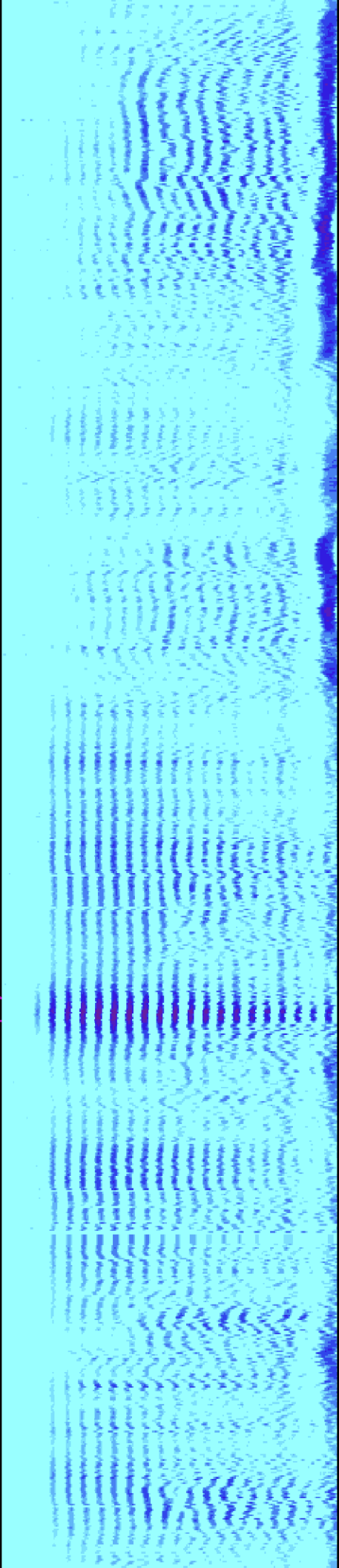


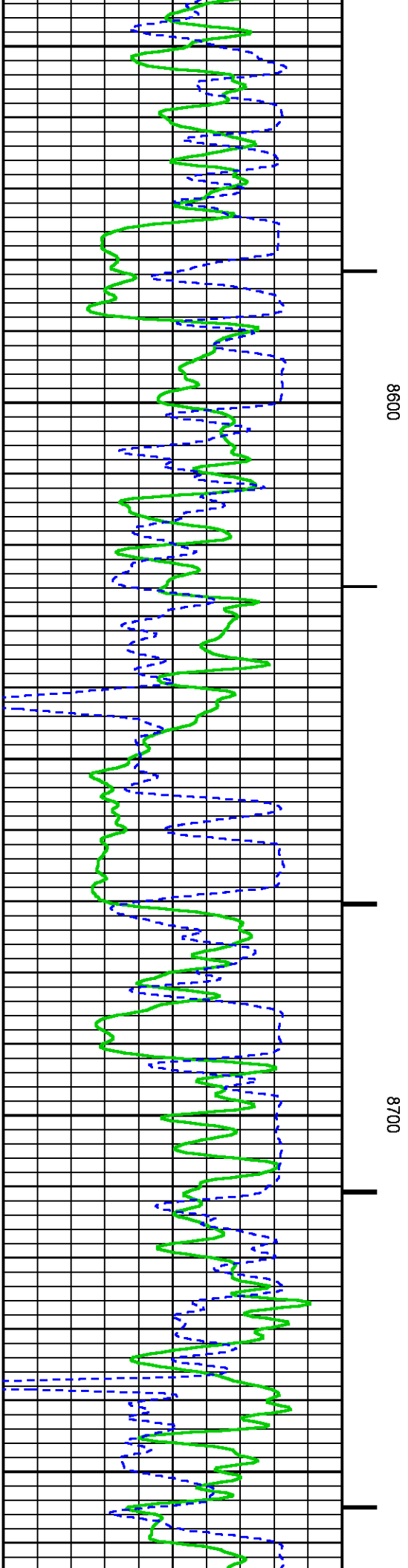
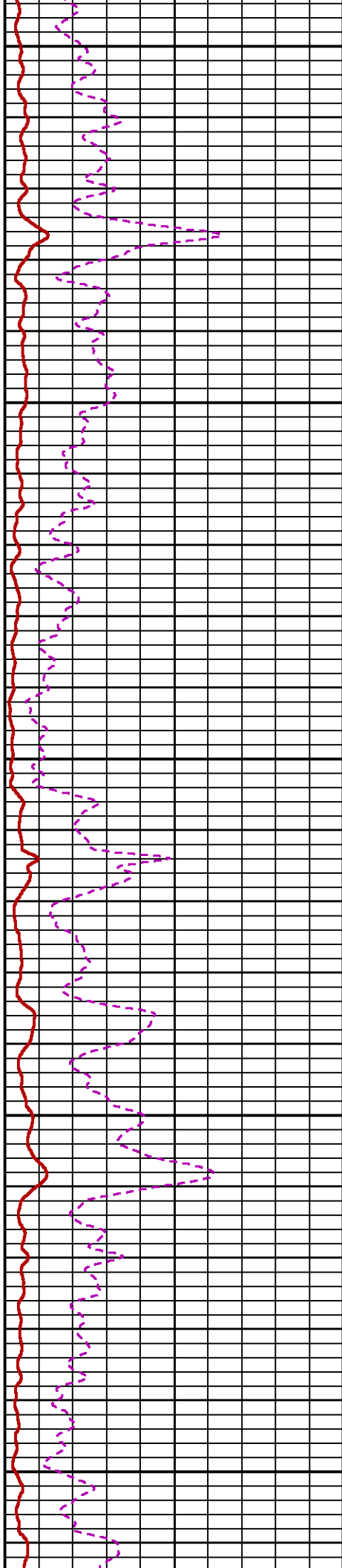
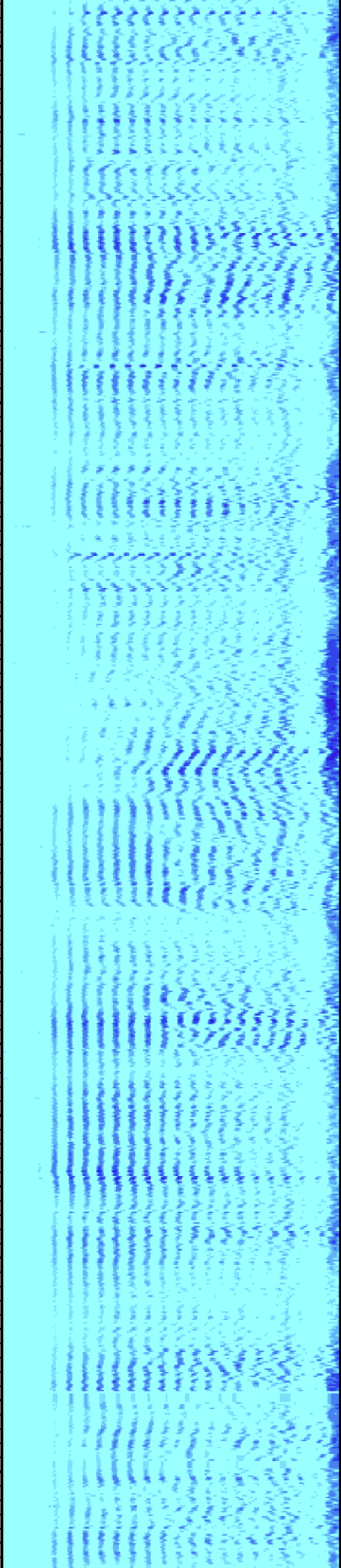


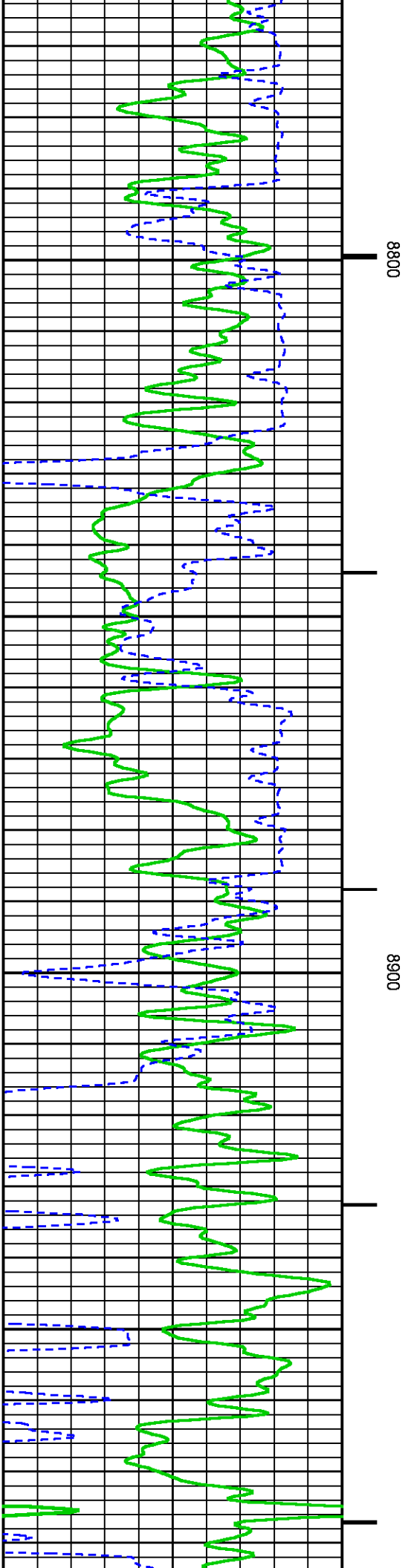
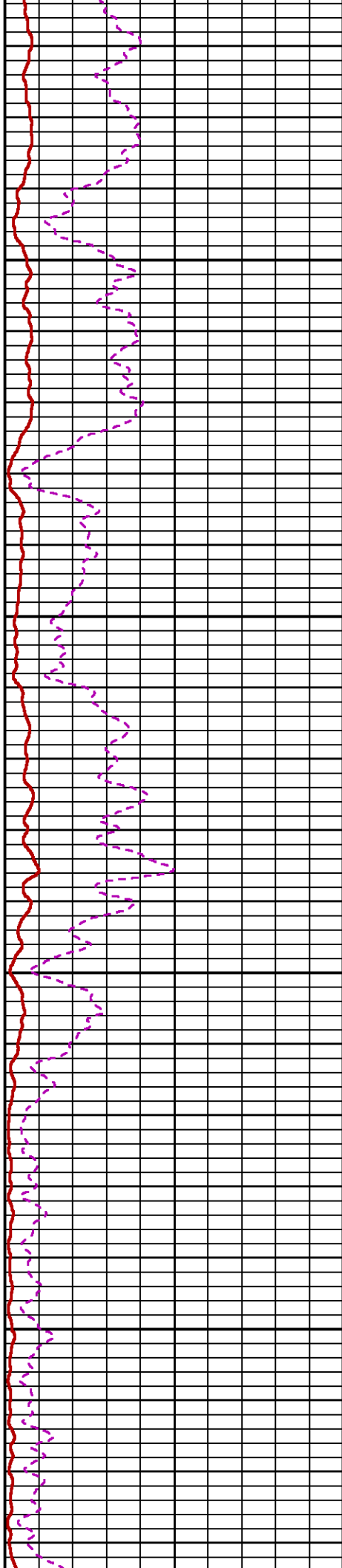
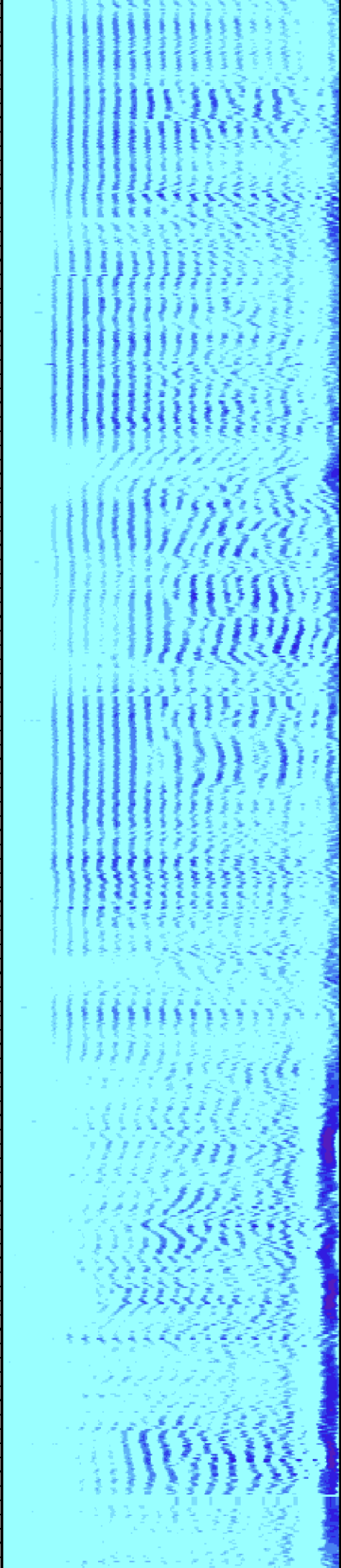


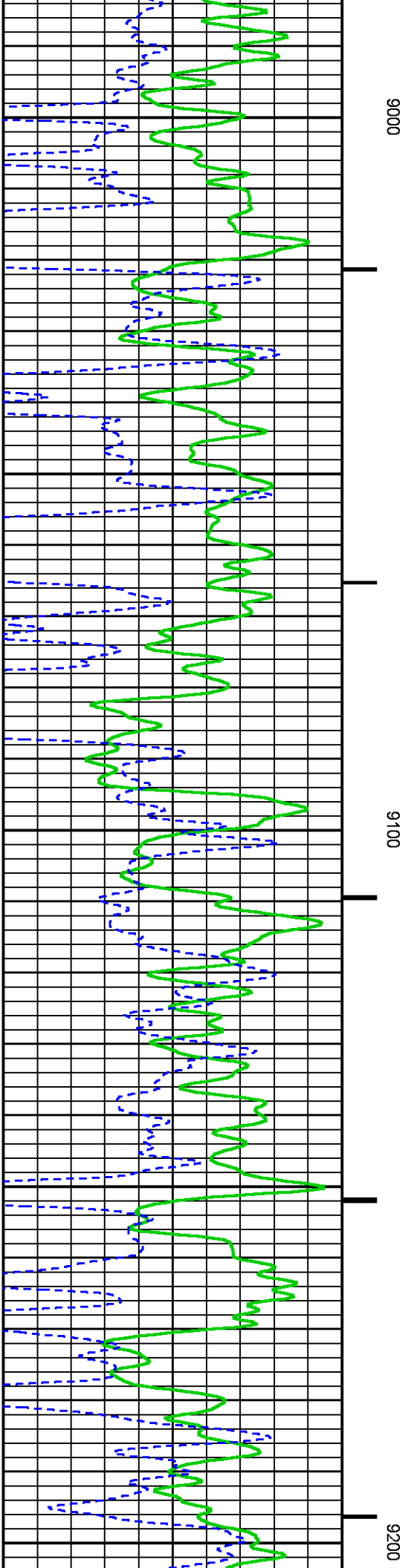
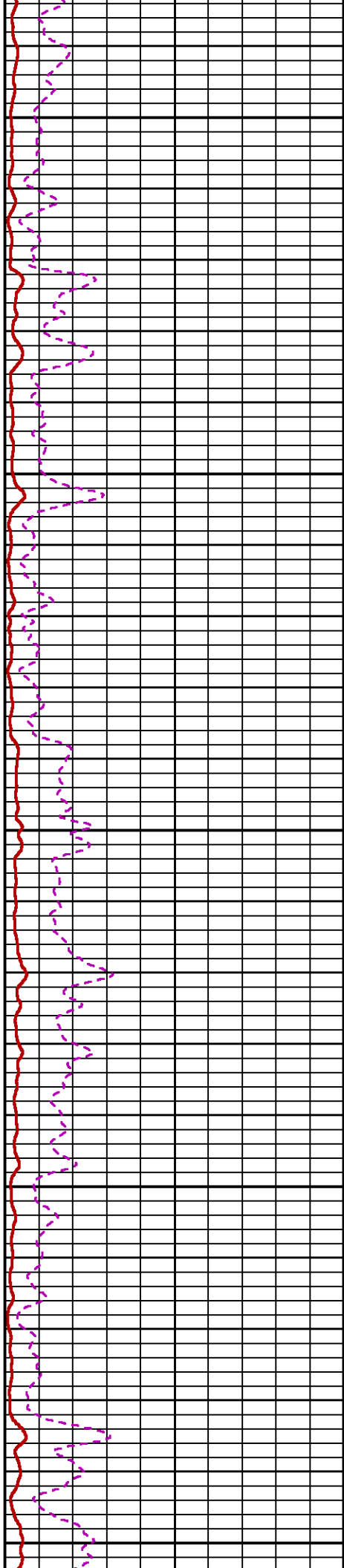
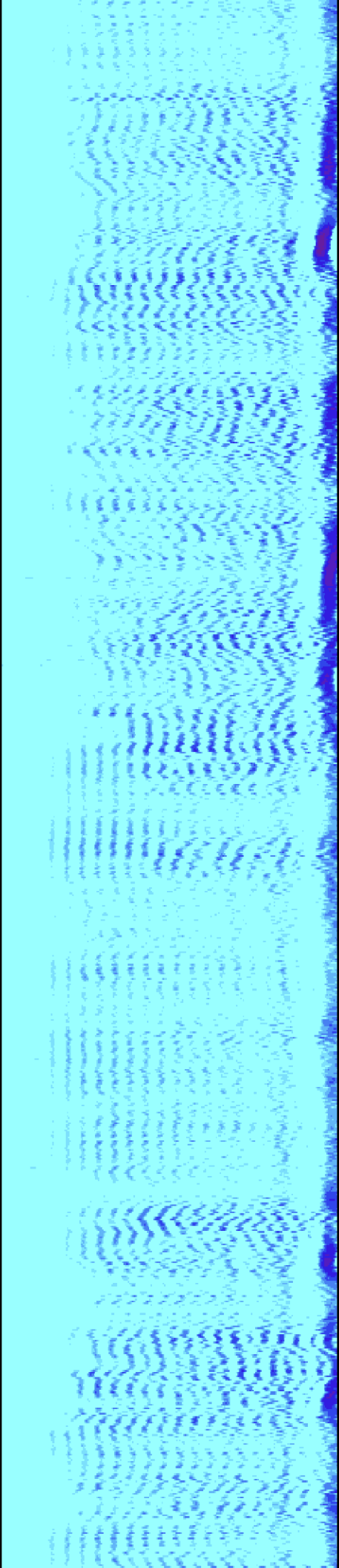




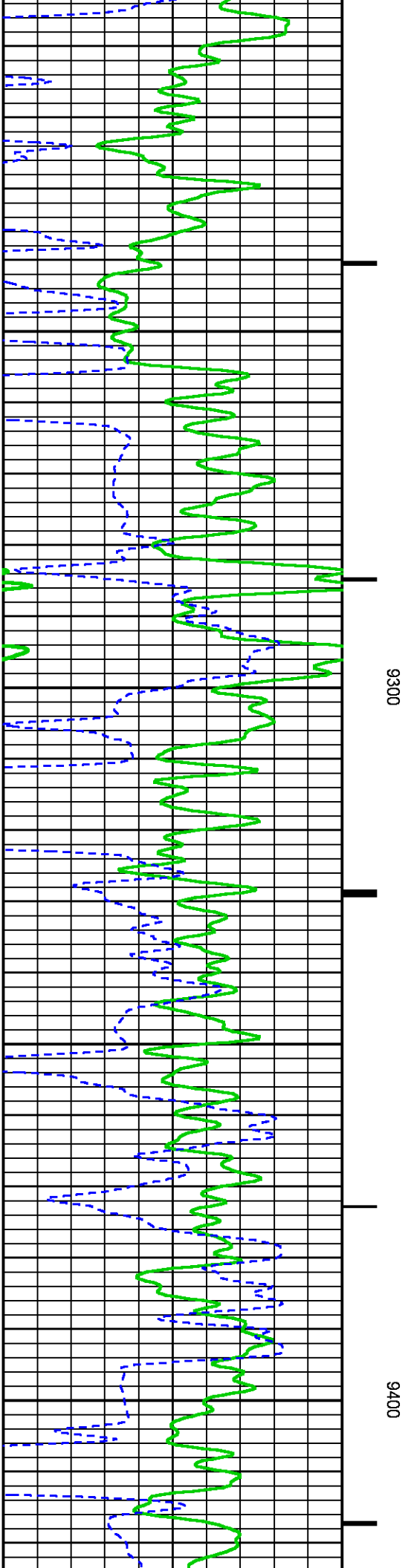
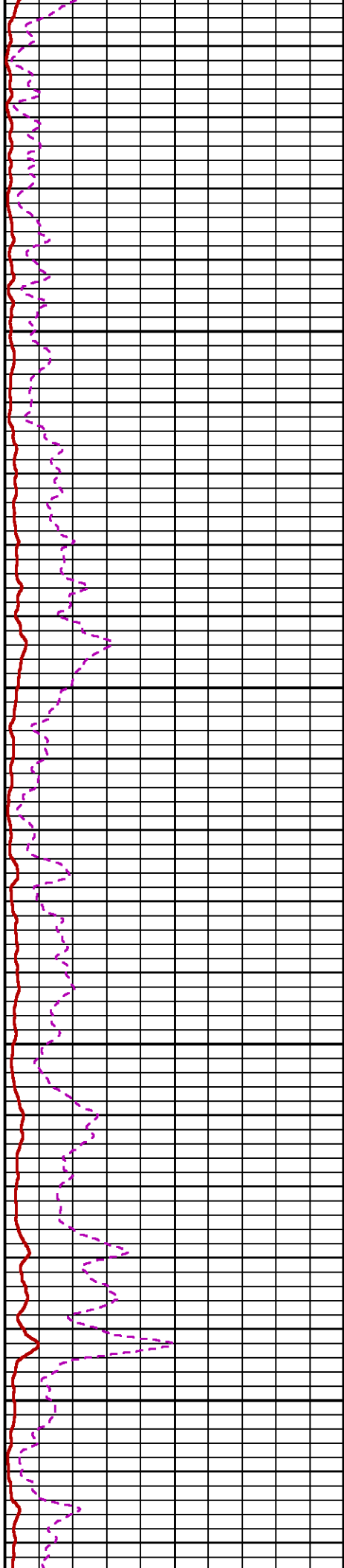
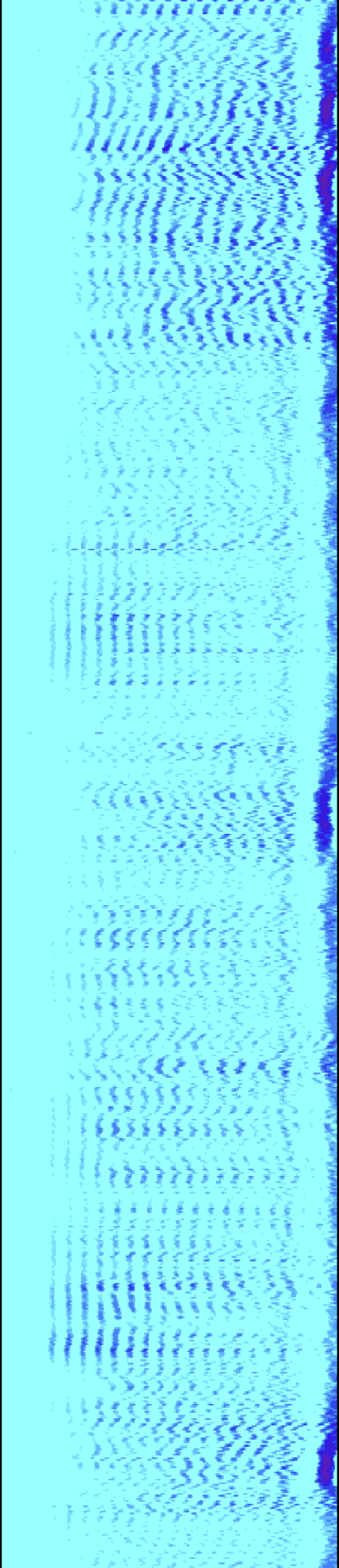


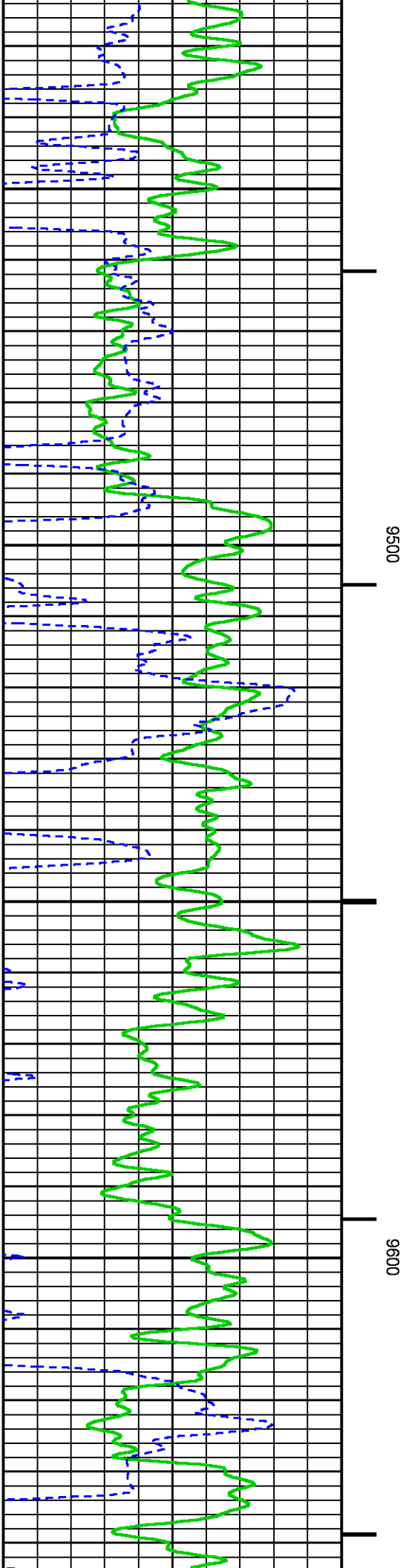
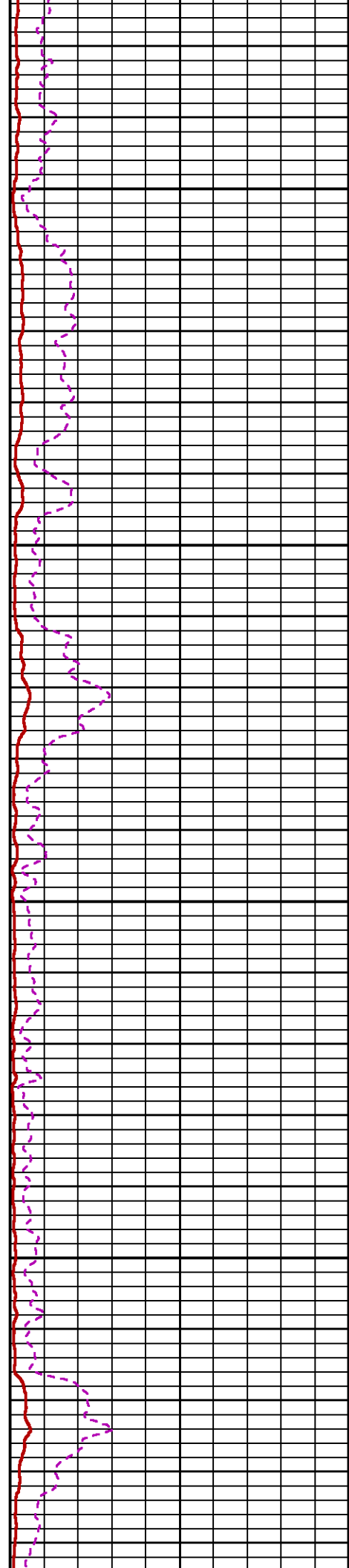
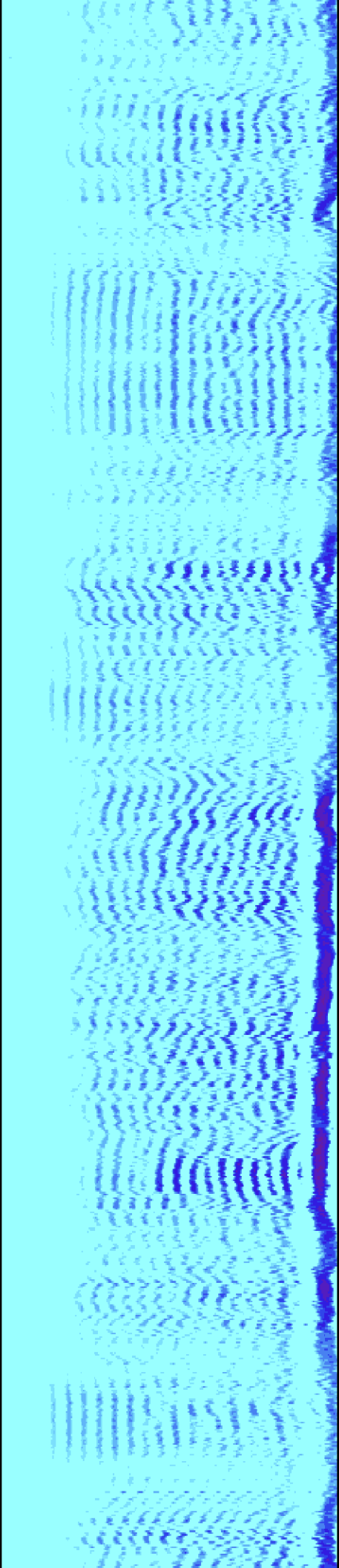


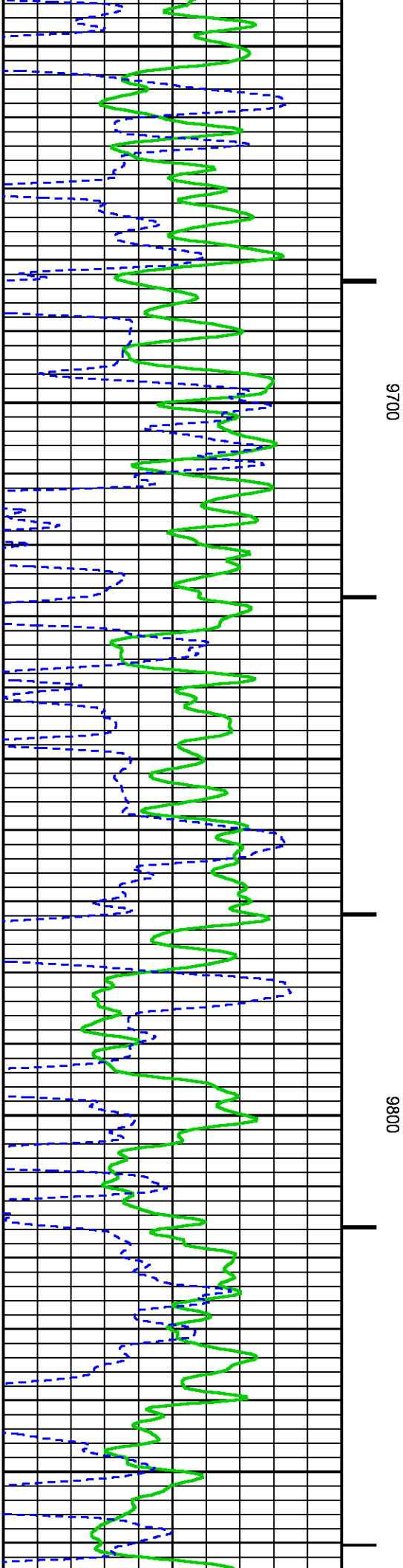
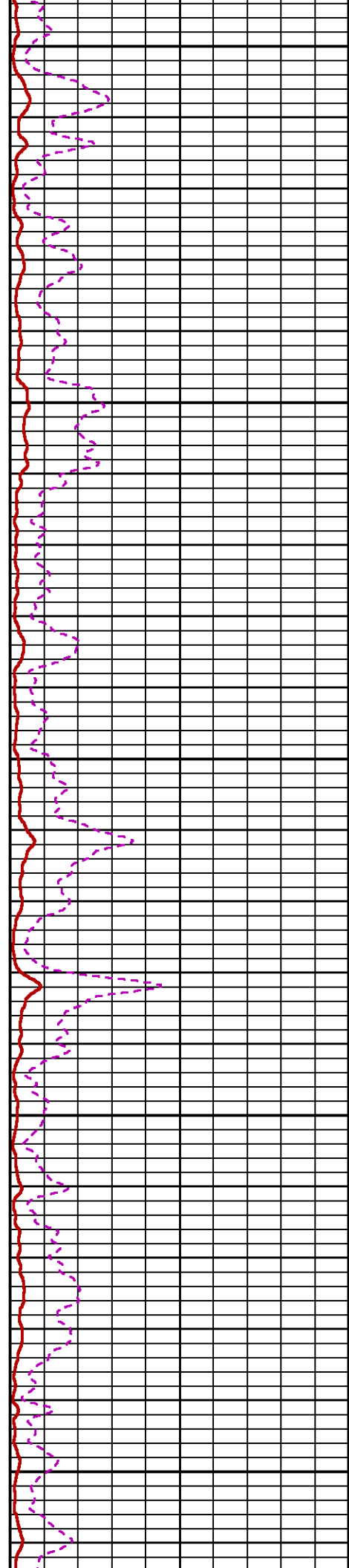
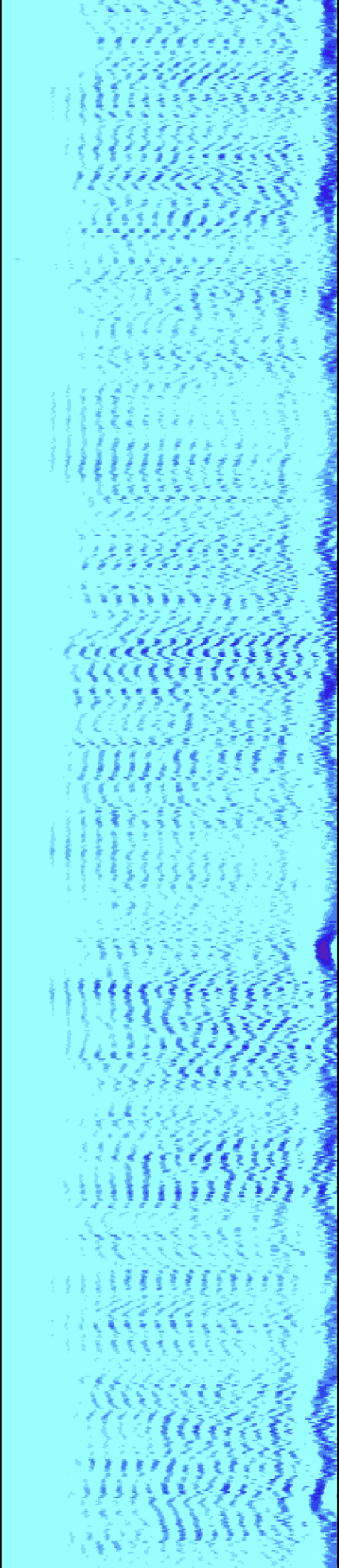


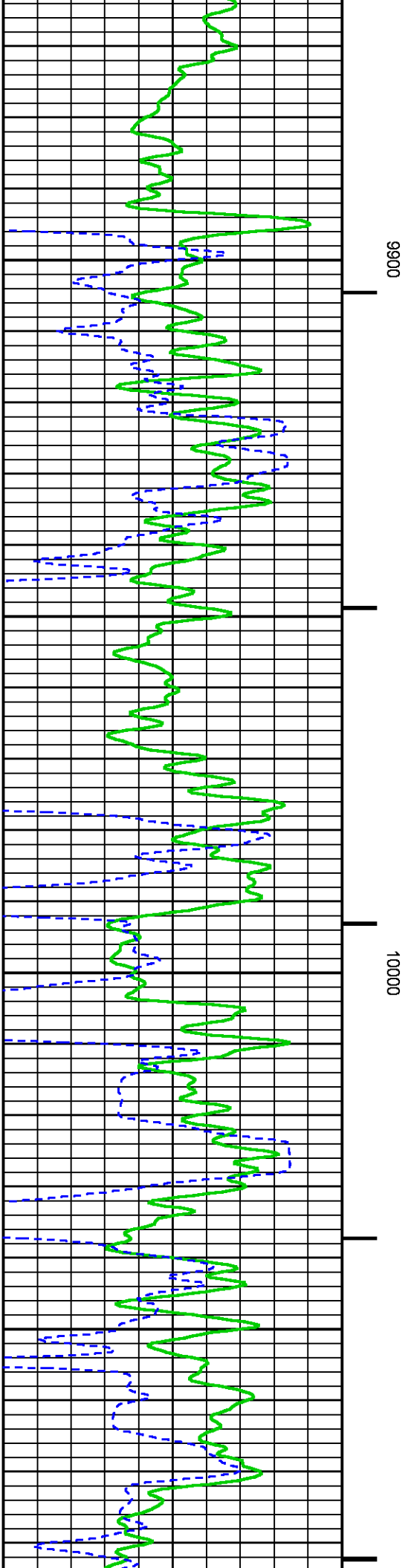
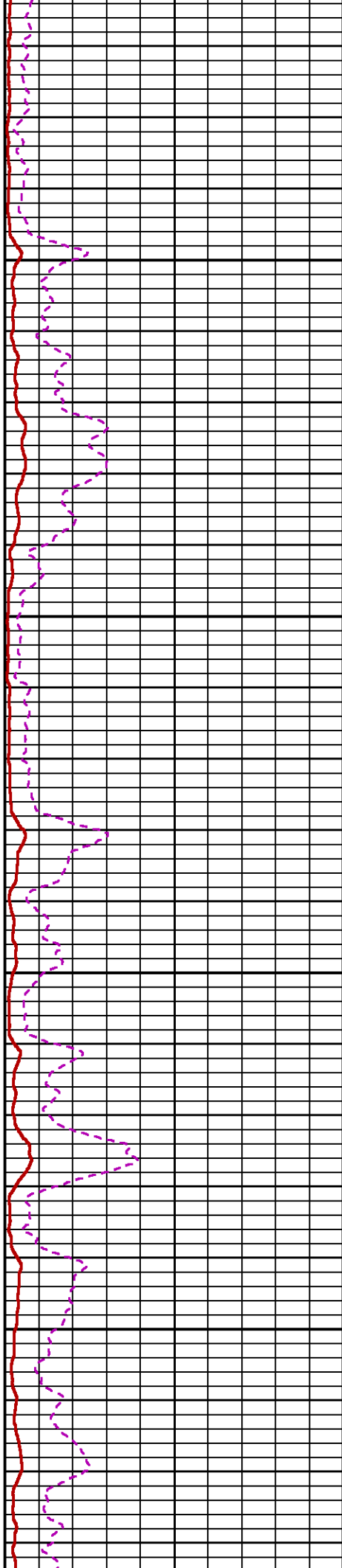
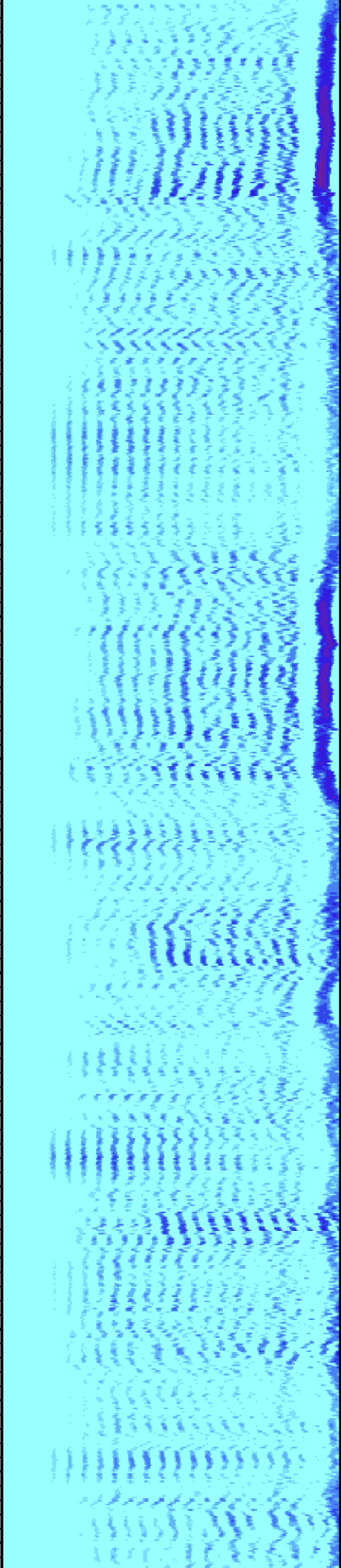




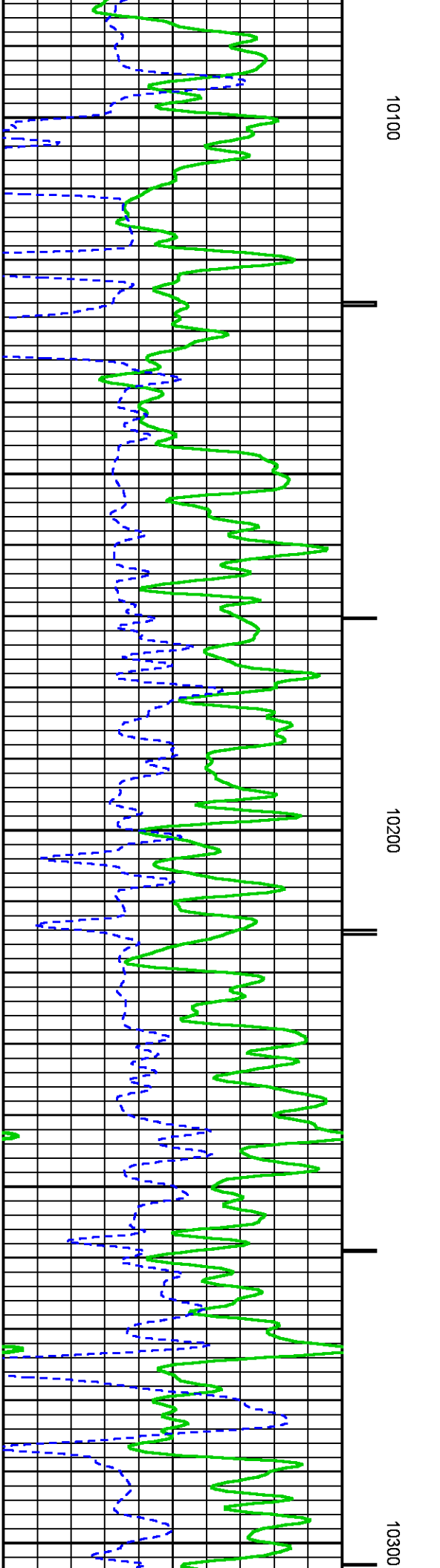
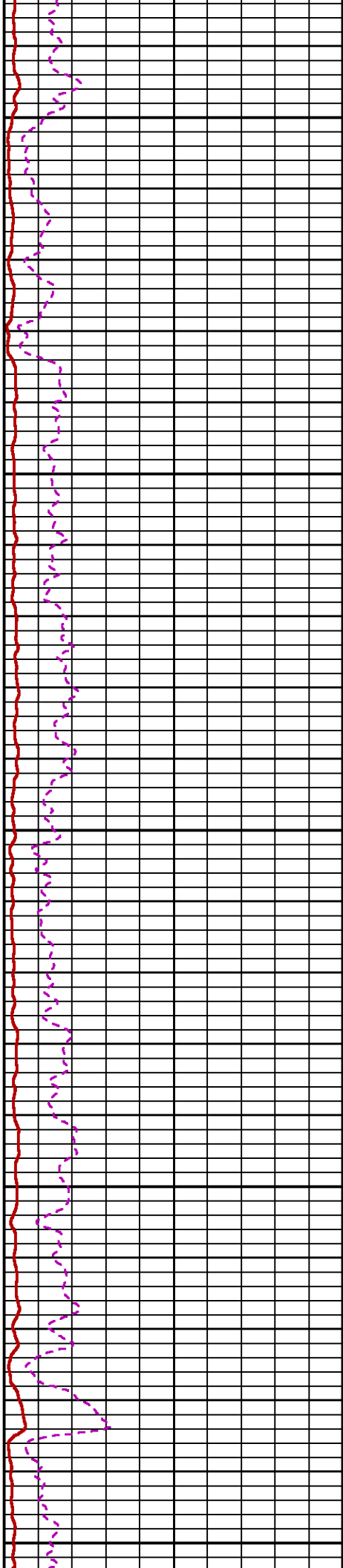
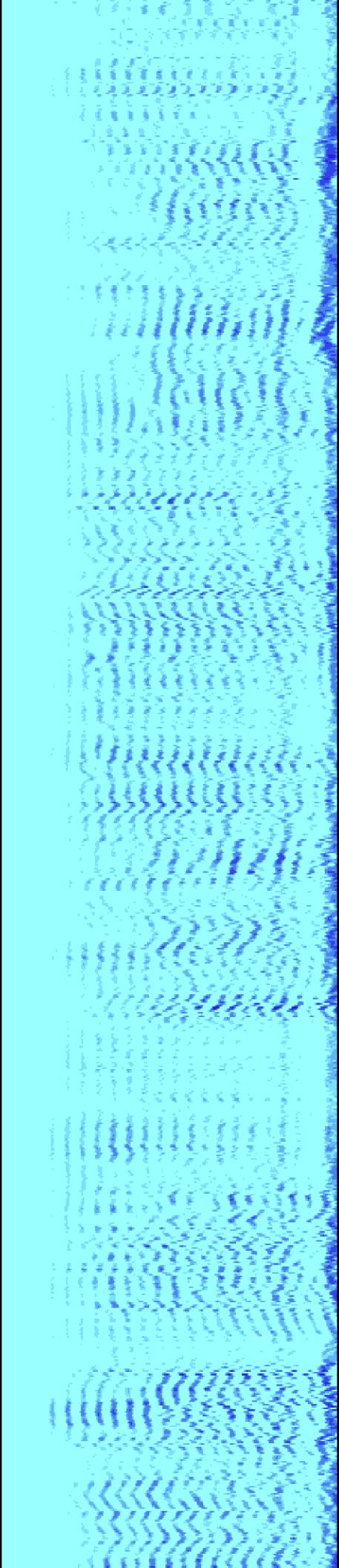


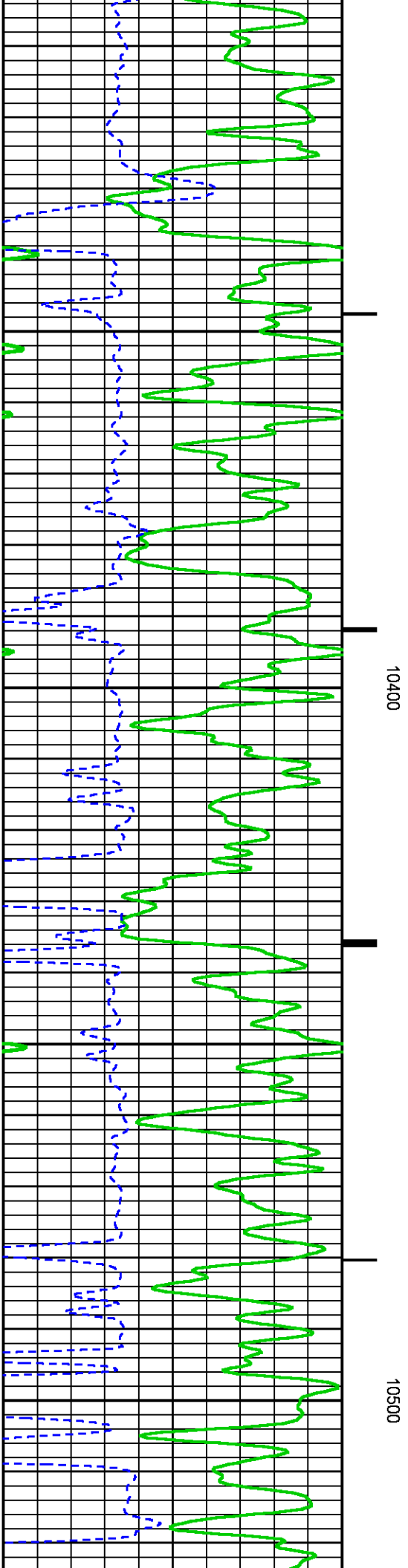
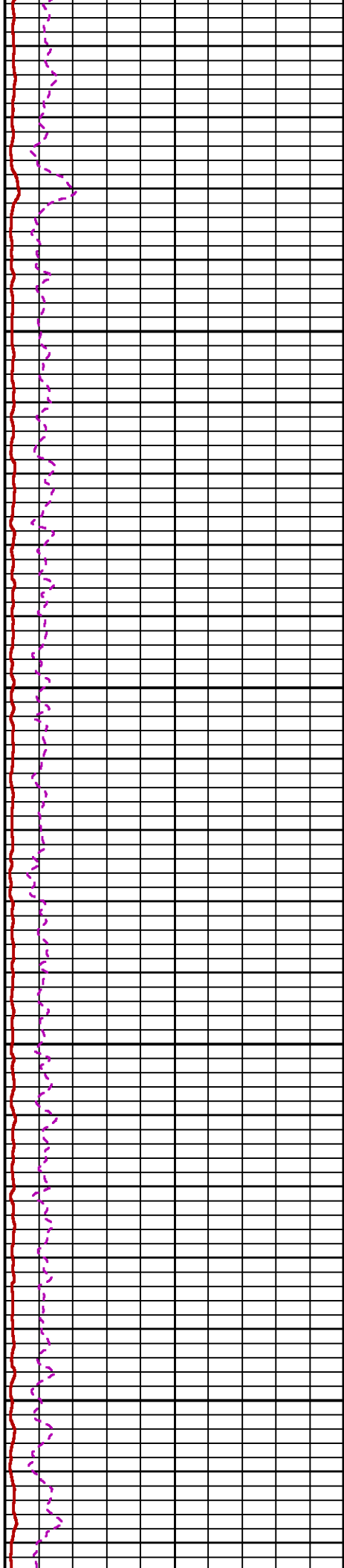
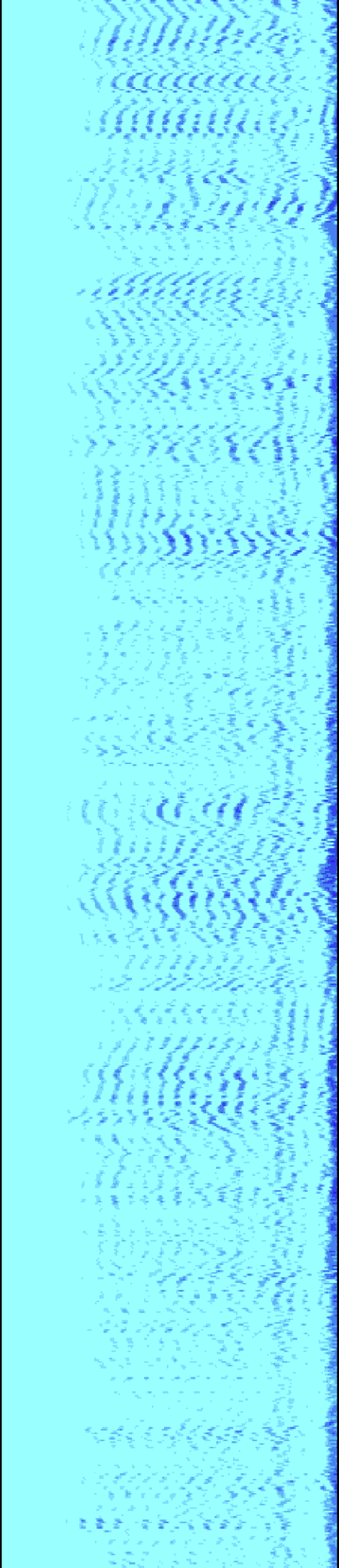


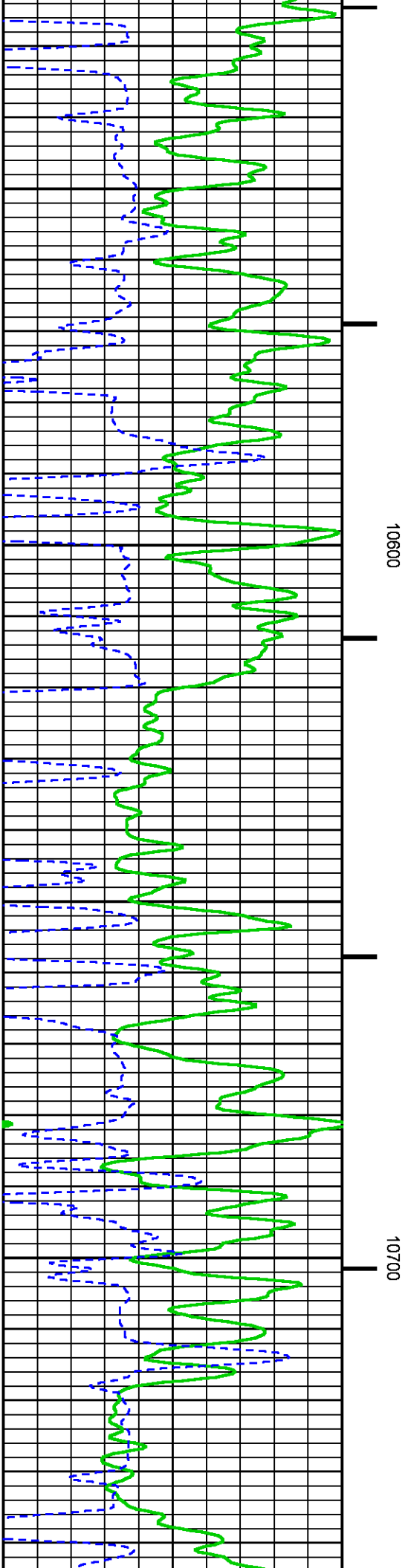
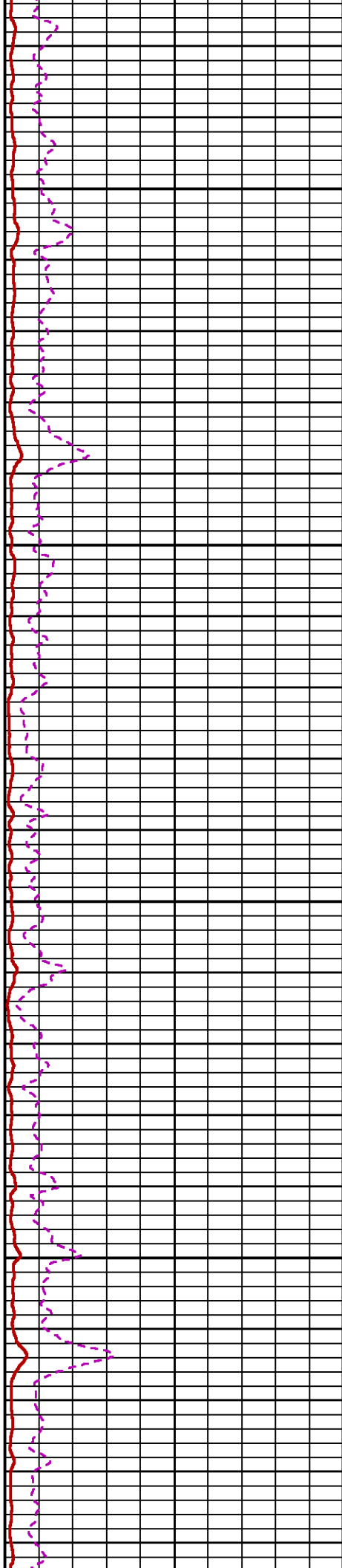
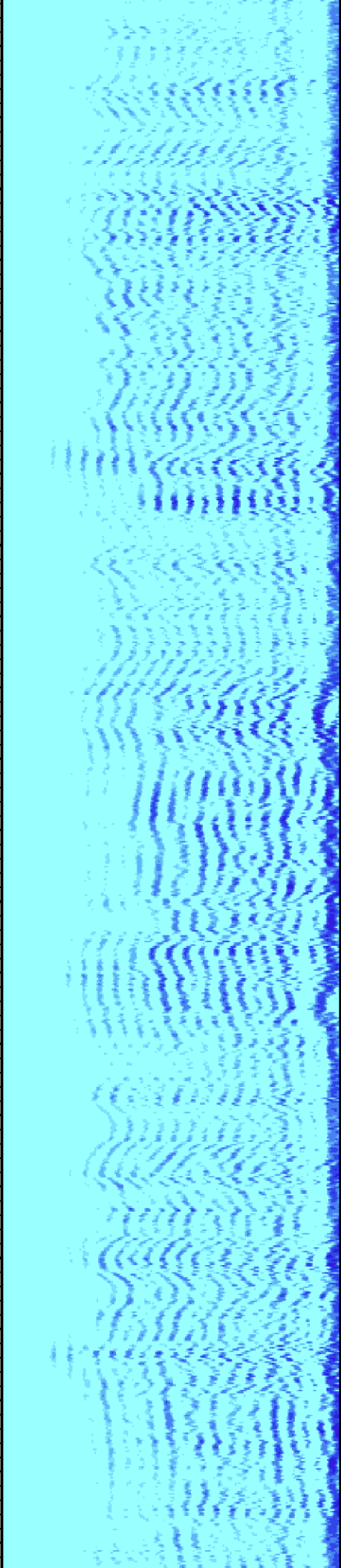


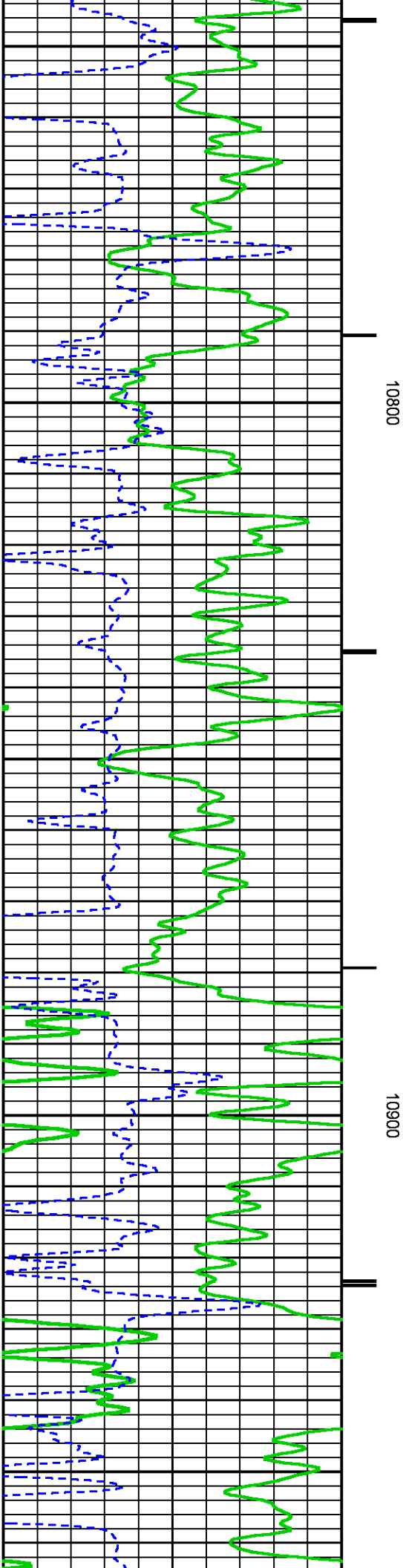
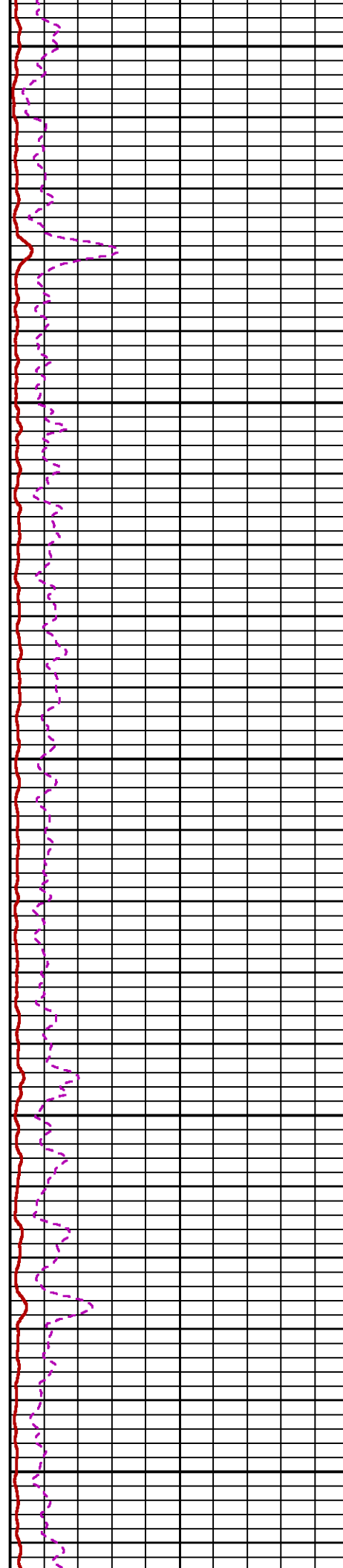
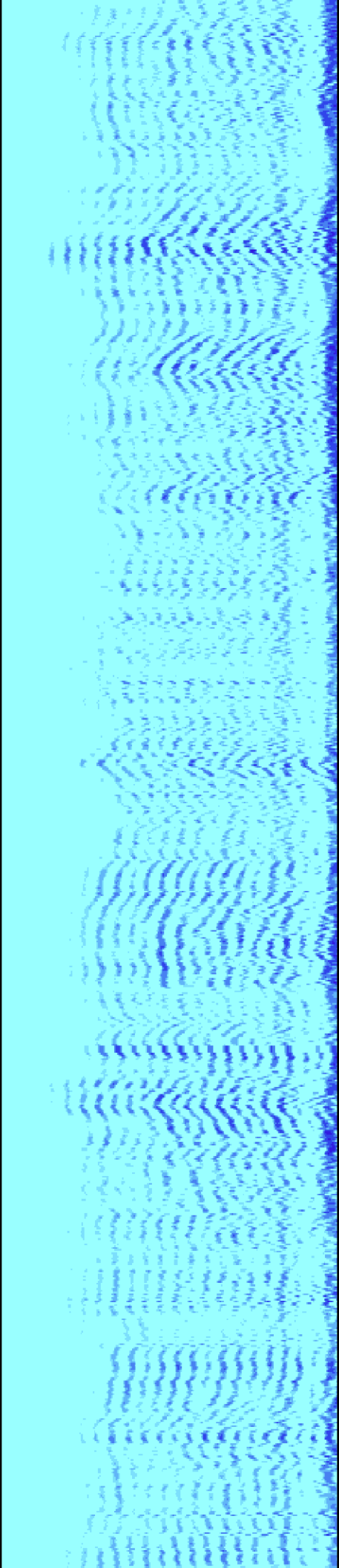




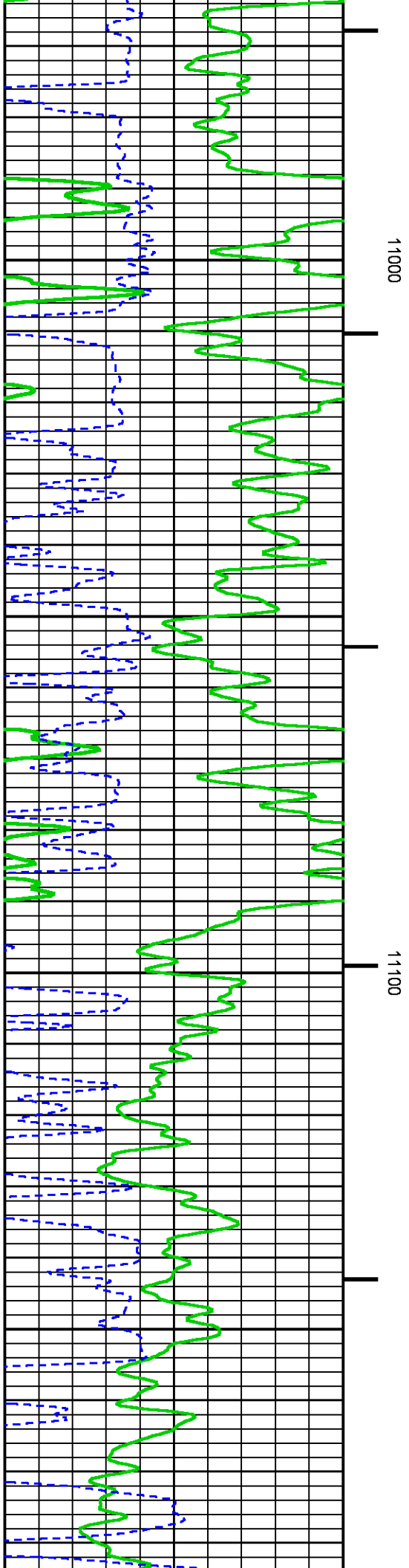
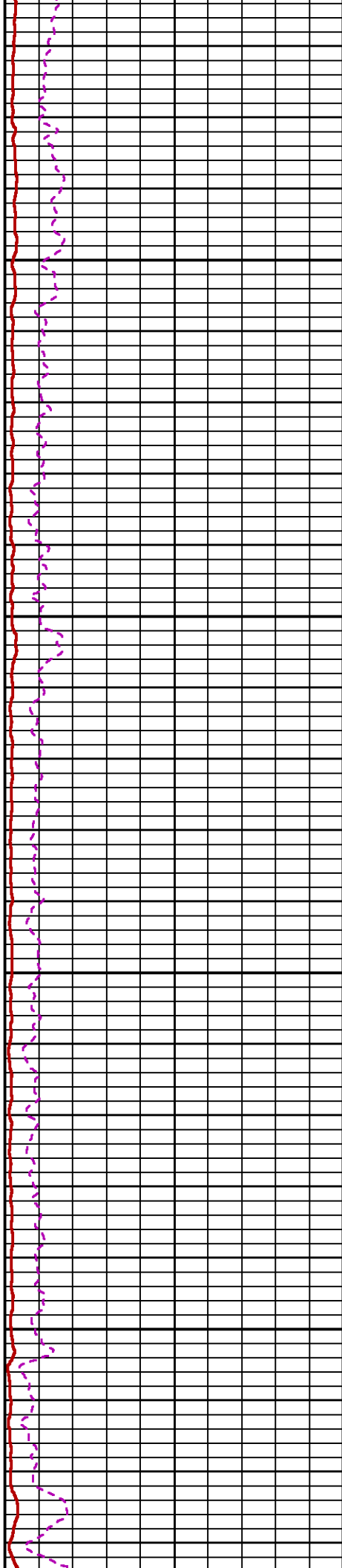
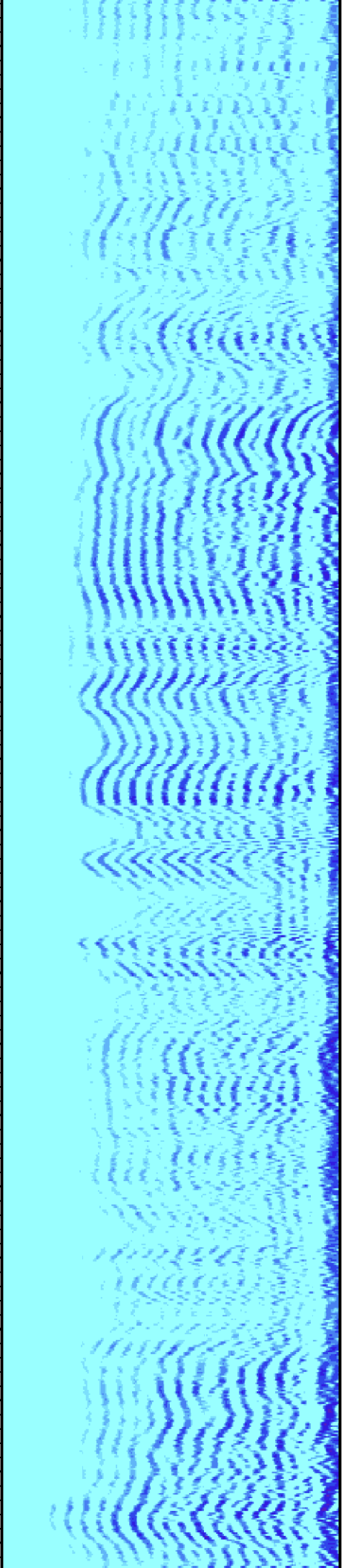


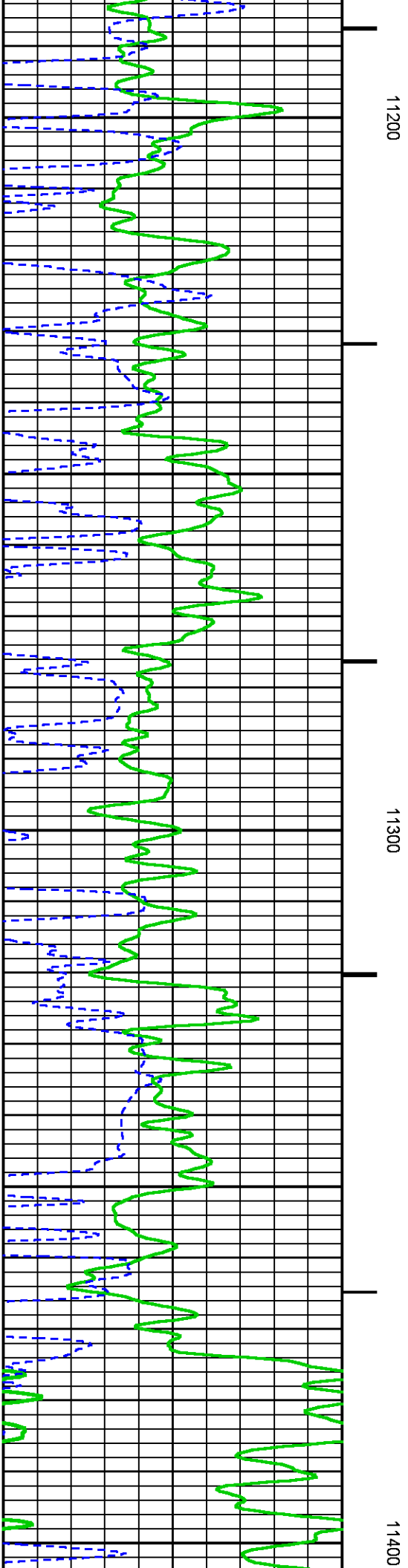
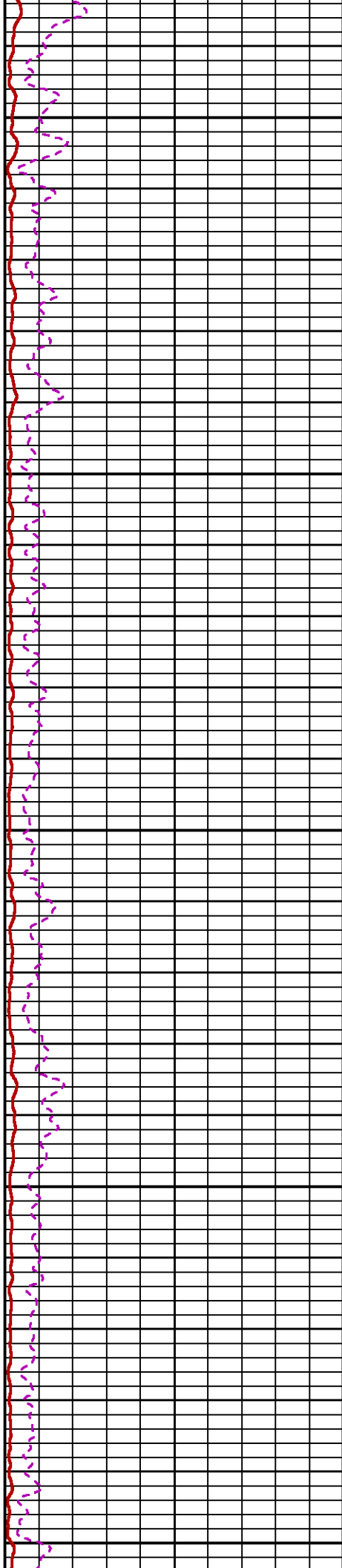
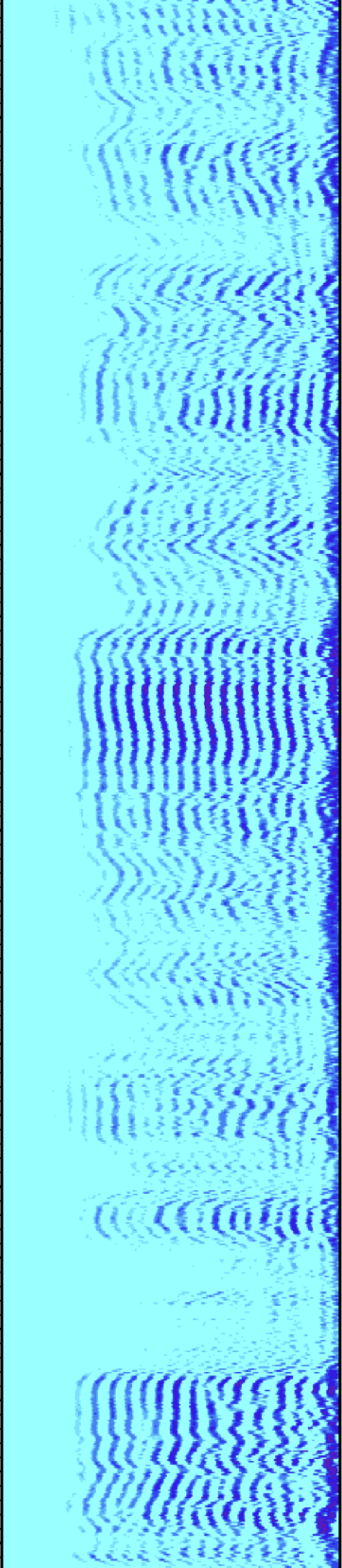


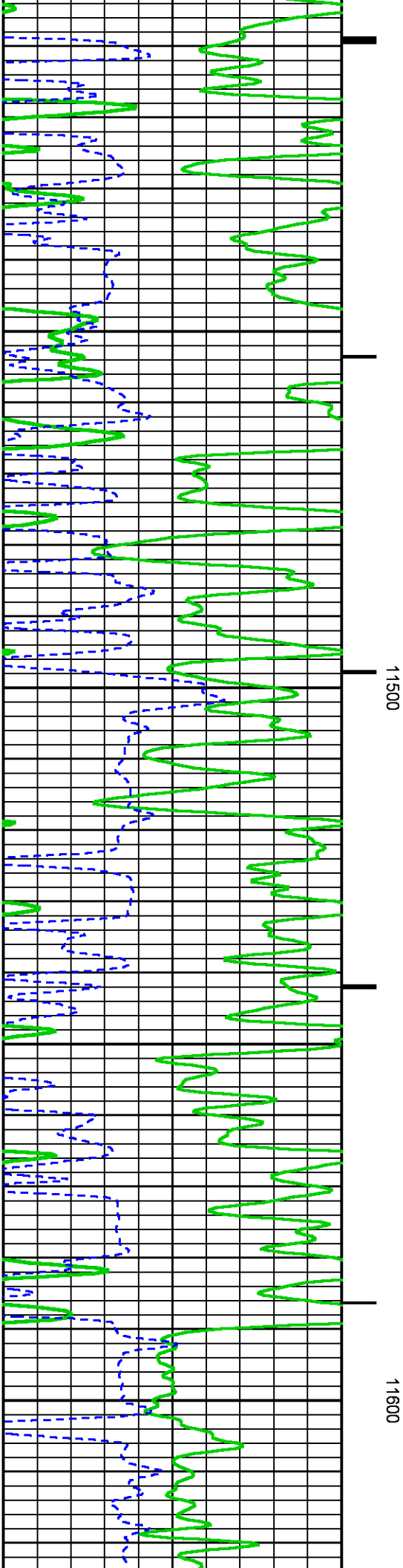
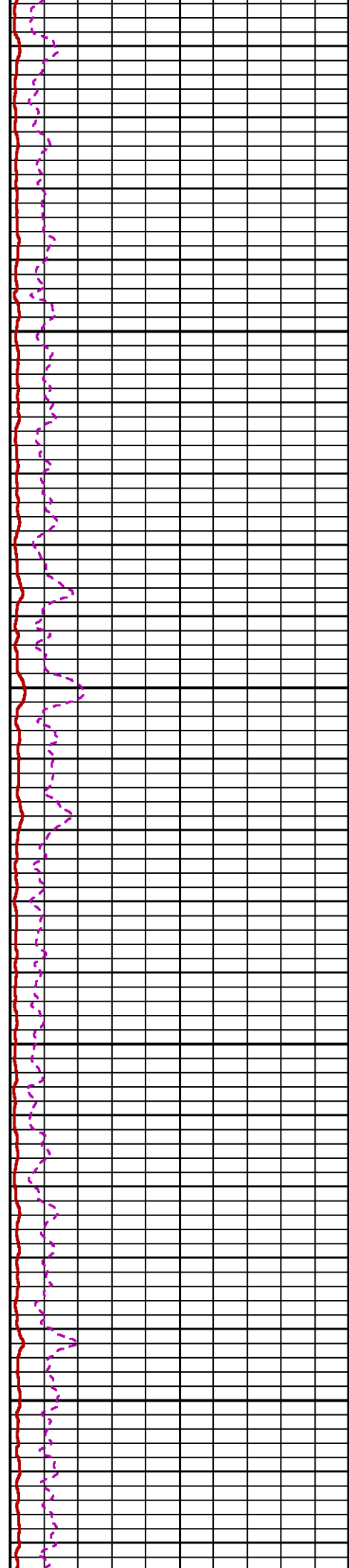
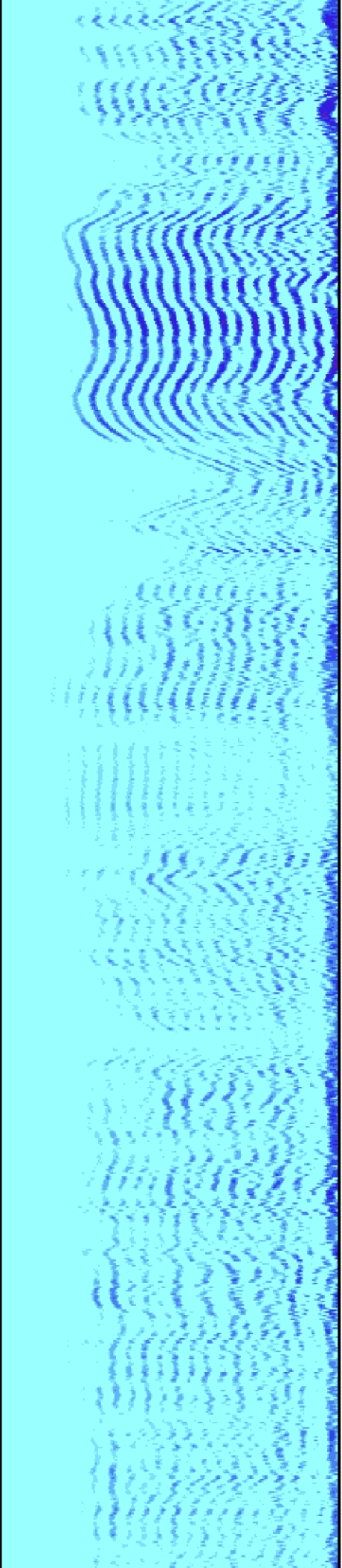


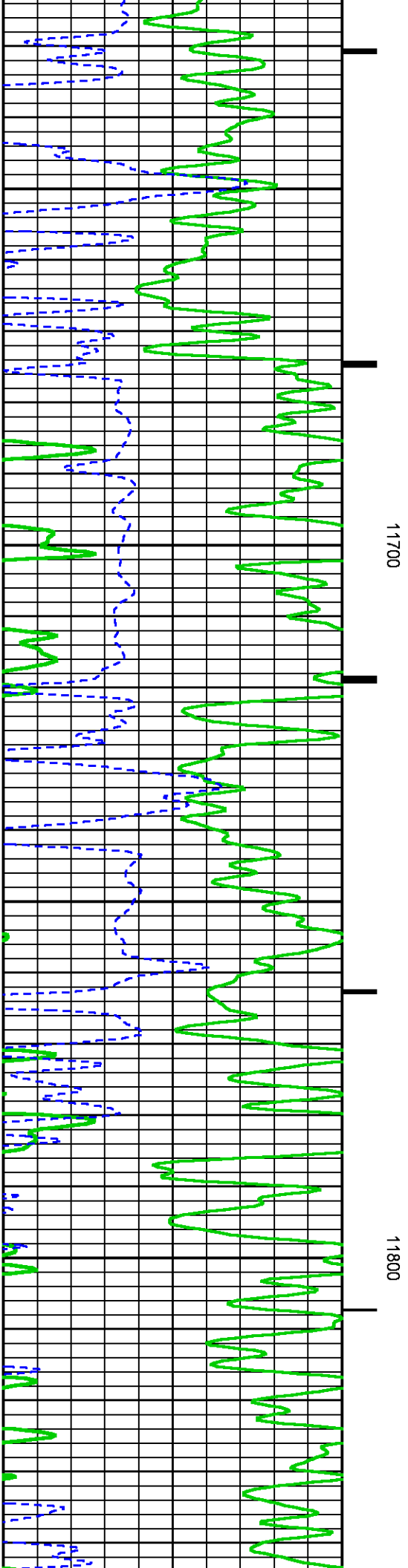
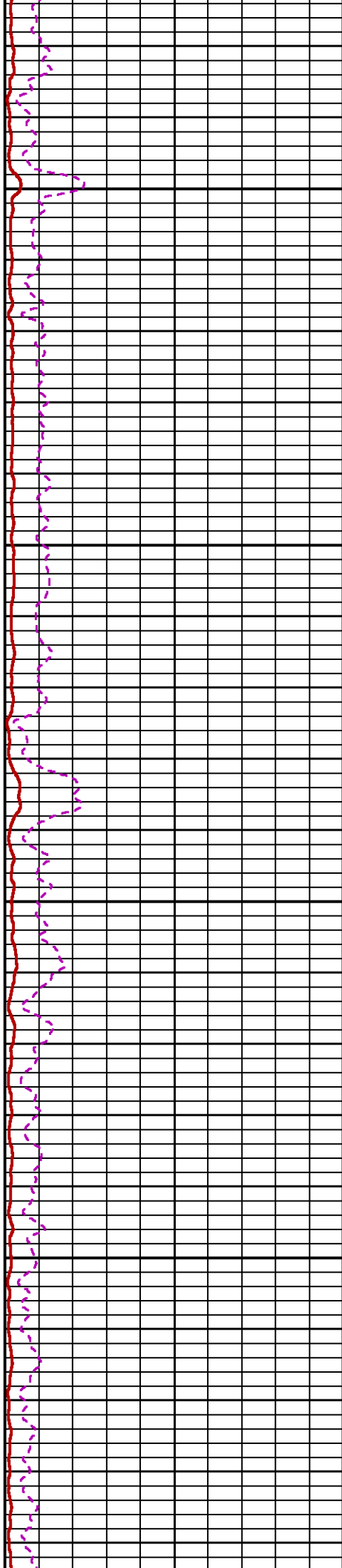
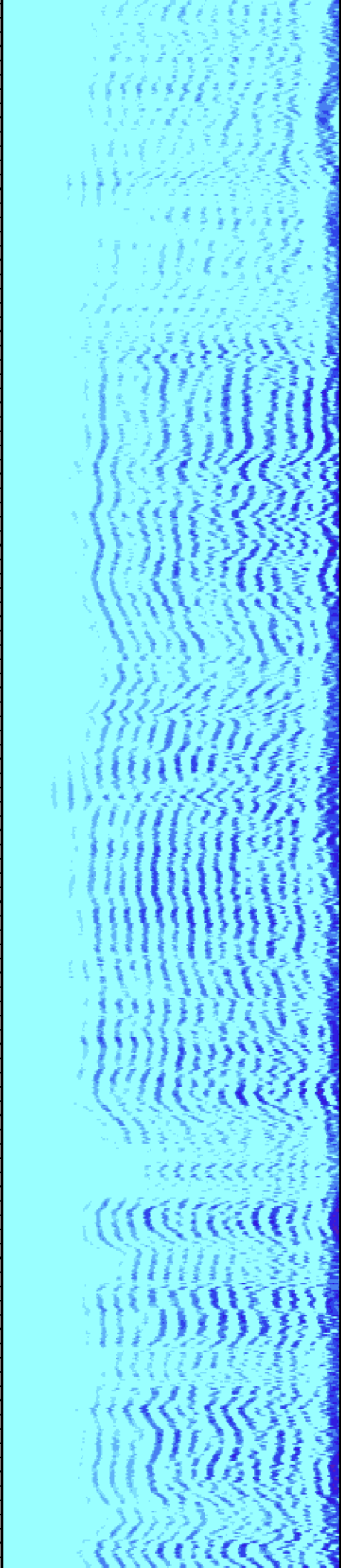




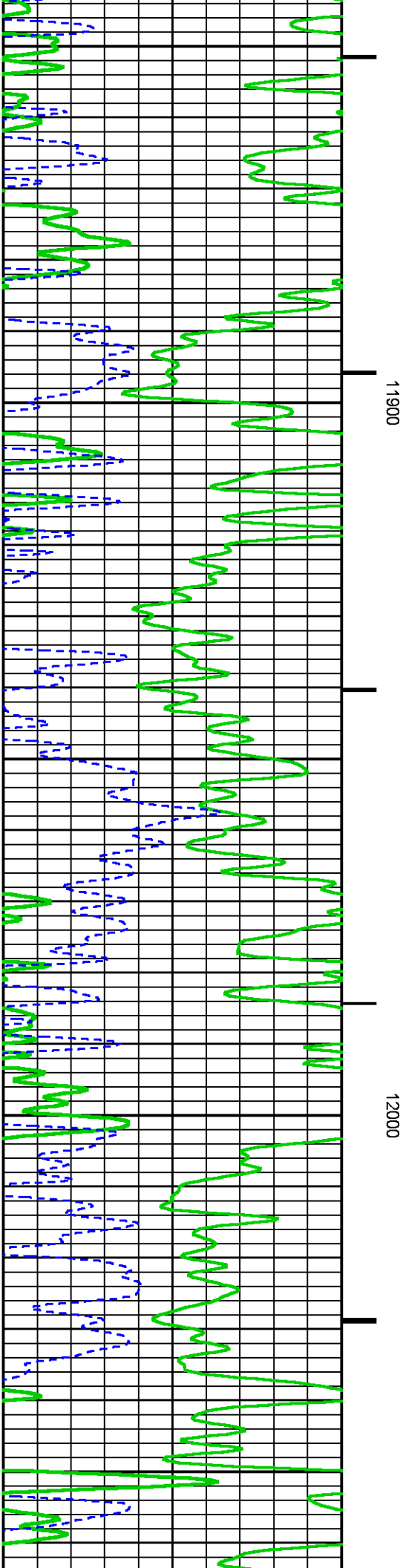
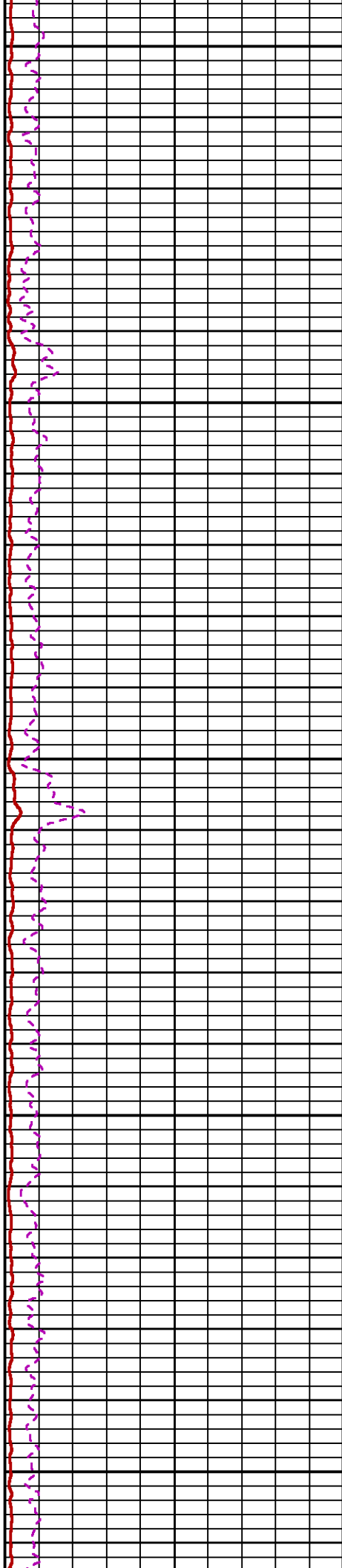
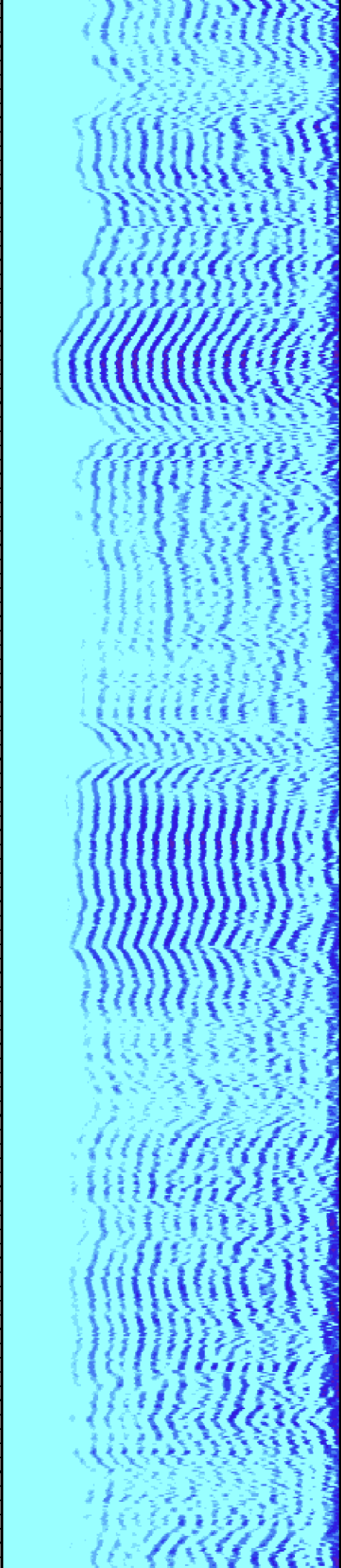


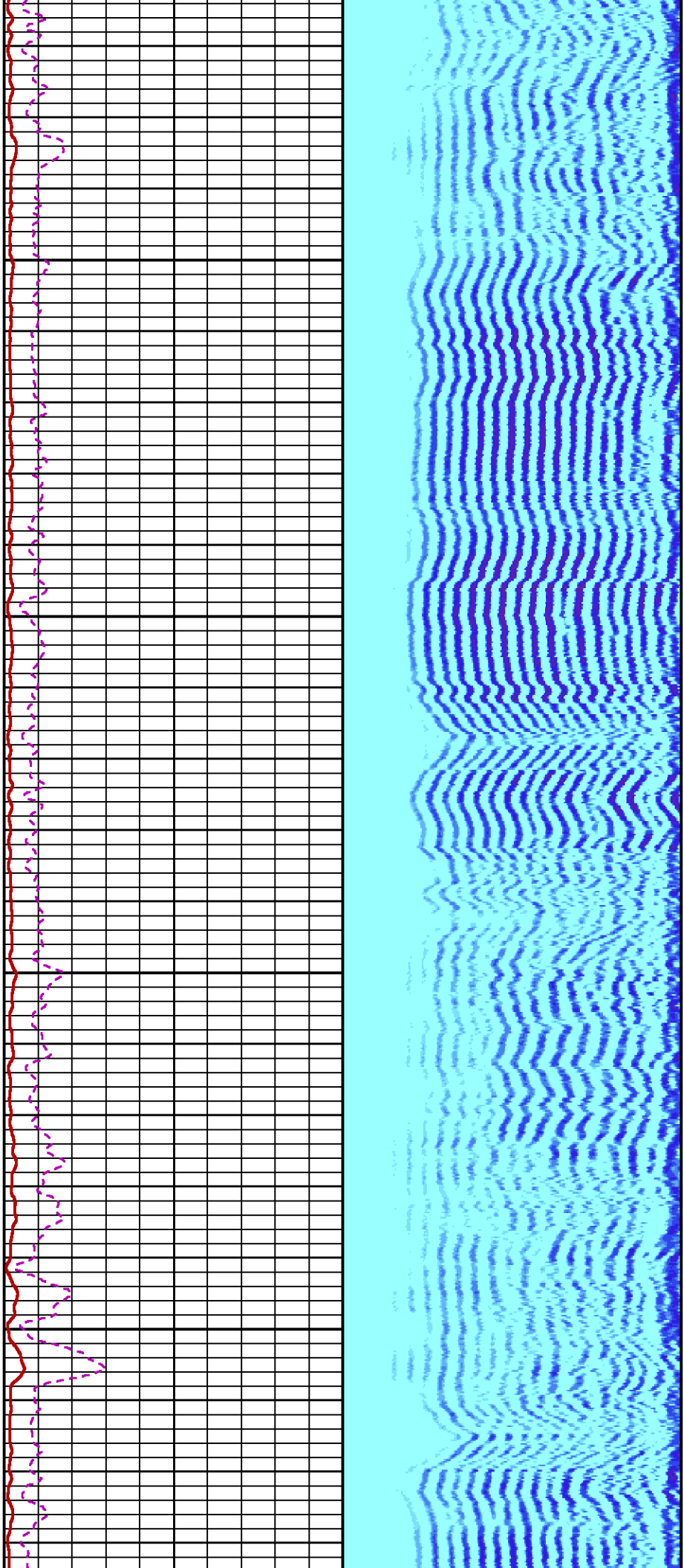






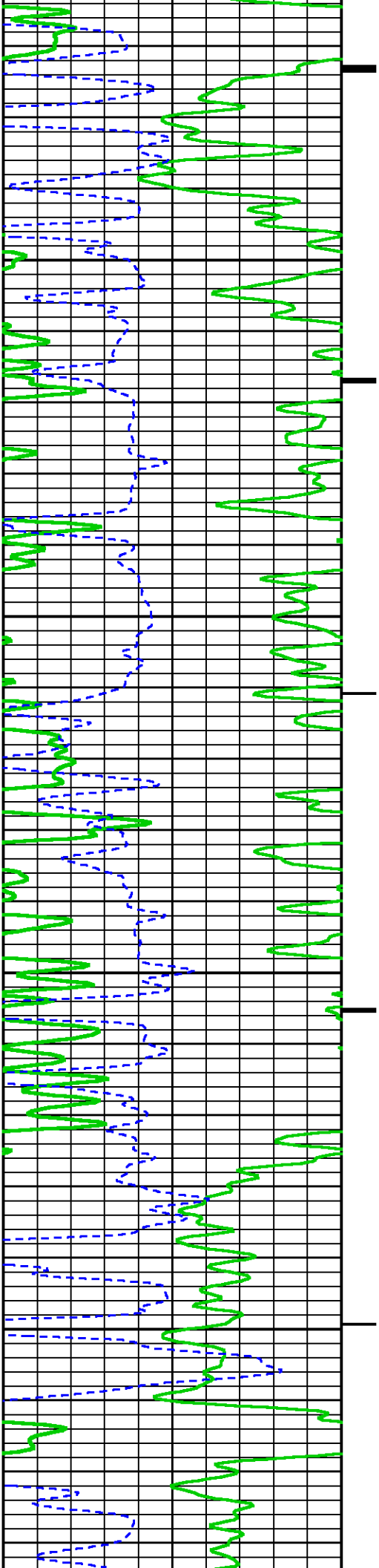


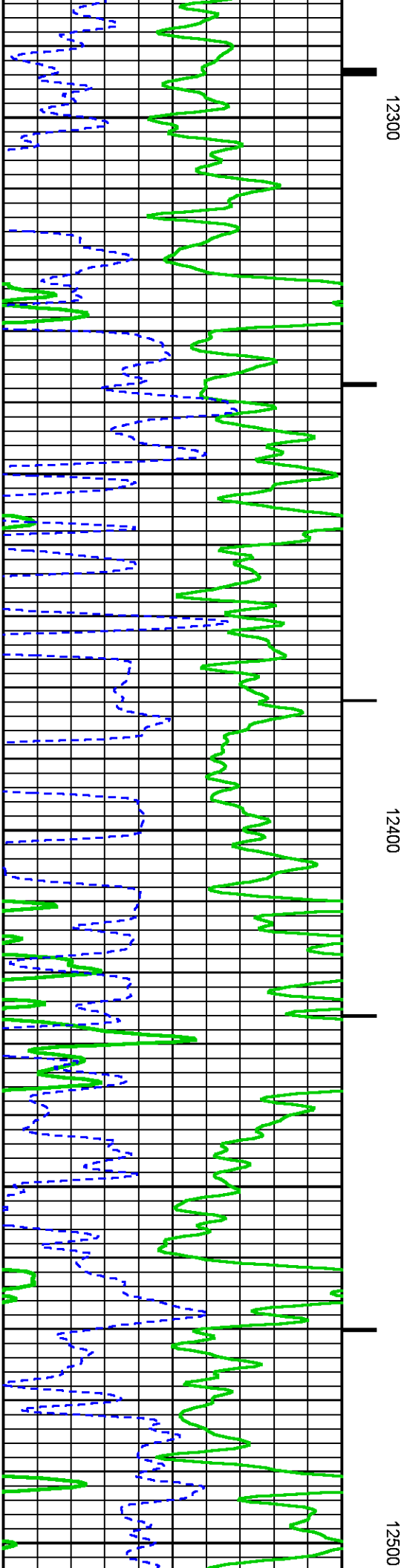
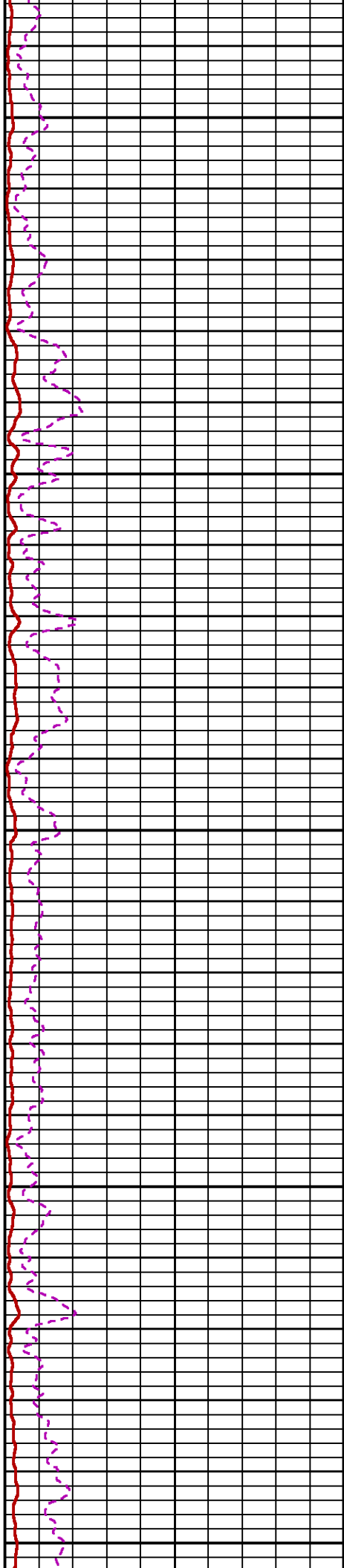
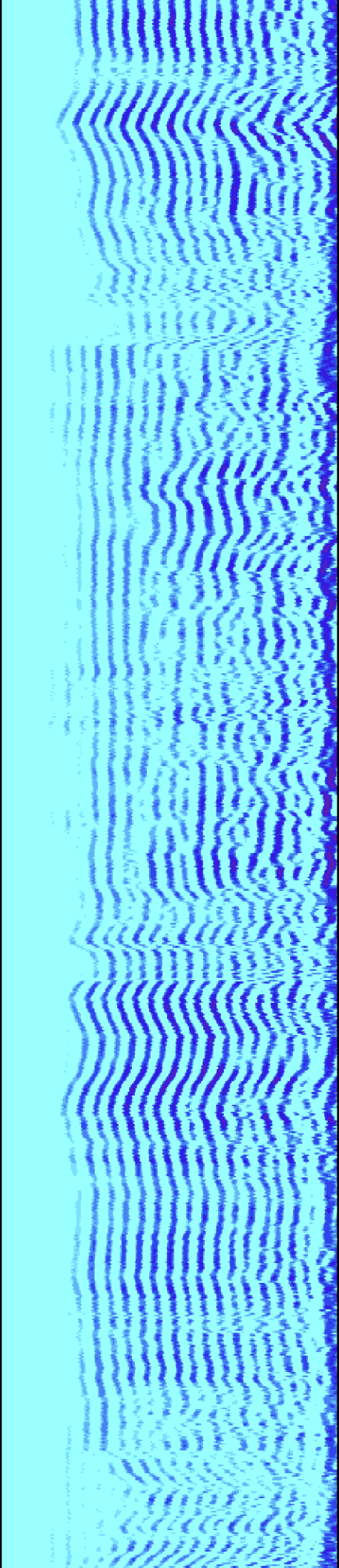


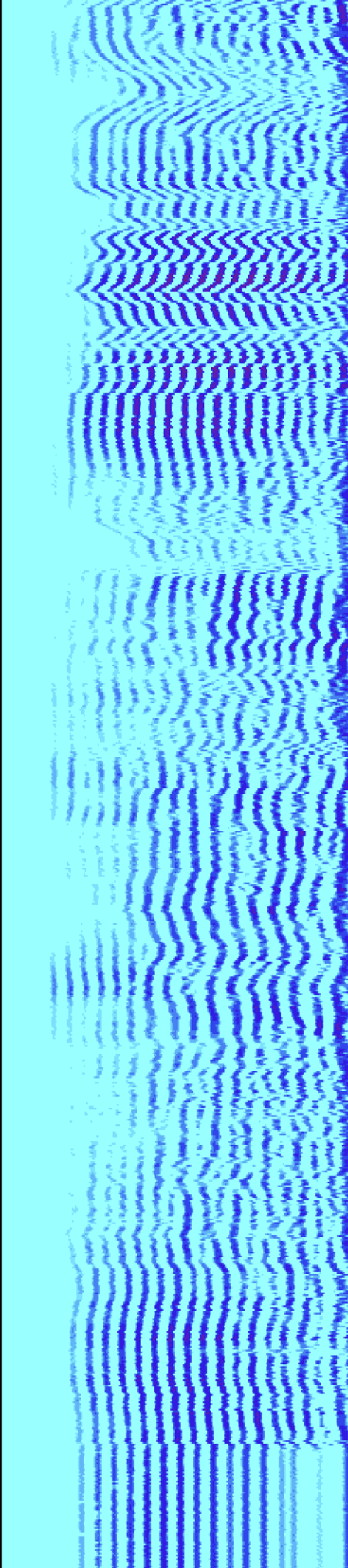


12100

12200







12600

12700

TD

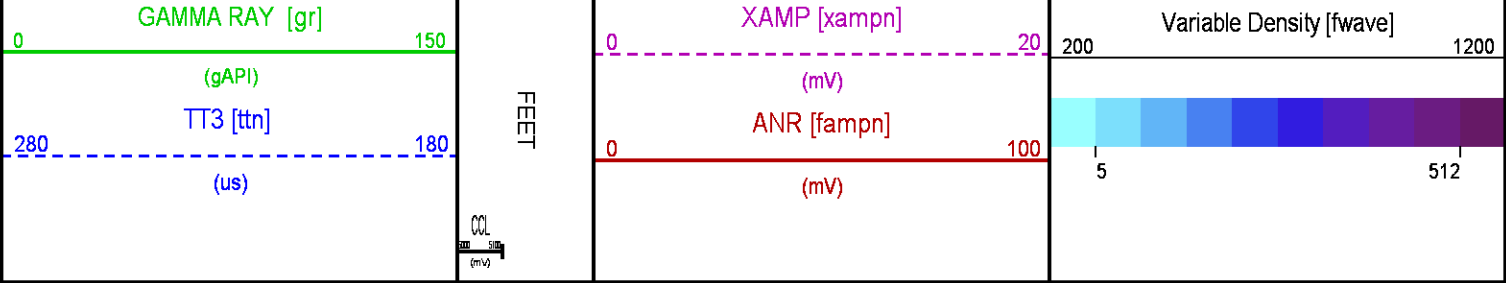
FR TTN

FR GR

FR FAMPN

FR XAMPN





SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1 Patches: 7

Plotted: Mon May 25 16:08:46 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096703/n012e02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 30.000 ft BOTTOM DEPTH: 12729.750 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 (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*)     | 176     | 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*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str2*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str3*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str4*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str5*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str6*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str7*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (str8*)         | -70     | us    | "             | "      |
|                           | TOOL DELAY (strn*)         | -70     | us    | "             | "      |
| BASELINE NOISE (NEAR)     | NOISE WINDOW START         | 125     | 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      | 80    | mV    | TOP           | BOTTOM |
|                         | FREE AMP REC 2      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 3      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 4      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 5      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 6      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 7      | 80    | mV    | "             | "      |
|                         | FREE AMP REC 8      | 80    | 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

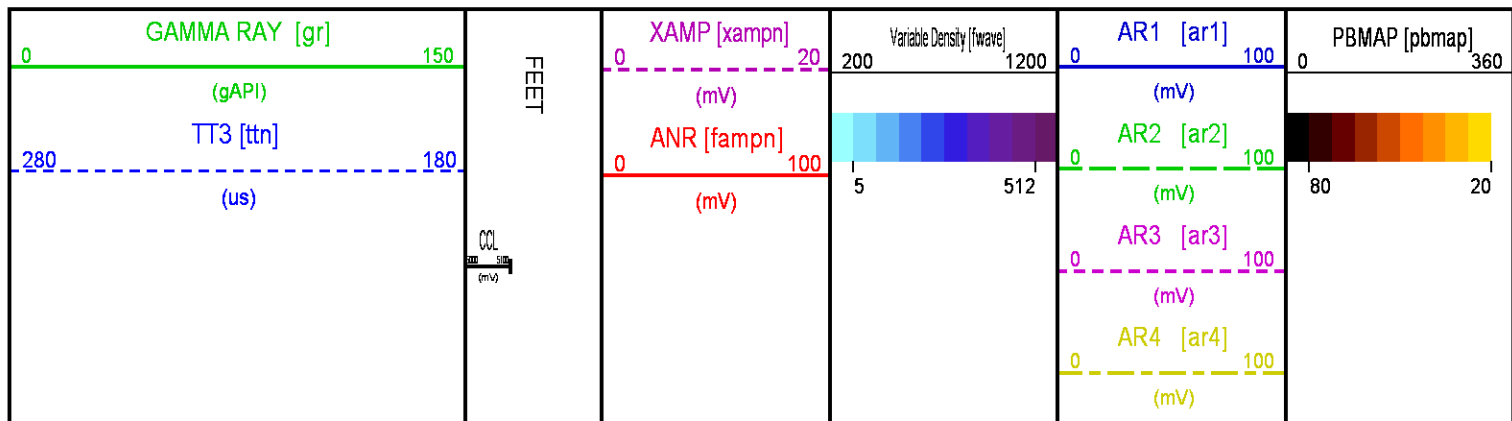
| CURVE NAME | CREATION DATE        | CURVE DESCRIPTION                             |
|------------|----------------------|---|
| F1:AR1     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R1                     |
| F1:AR2     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R2                     |
| F1:AR3     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R3                     |
| F1:AR4     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R4                     |
| F1:AR5     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R5                     |
| F1:AR6     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R6                     |
| F1:AR7     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R7                     |
| F1:AR8     | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE T-R8                     |
| F1:CCL     | May 25 12:52:45 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN   | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE   | May 25 12:52:45 2015 | FAR WAVE FORM                                 |
| F1:GR      | May 25 12:52:45 2015 | GAMMA RAY                                     |
| F1:PBMAP   | May 25 12:52:45 2015 | PERCENT BOND CEMENT MAP                       |
| F1:TTN     | May 25 12:52:45 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN   | May 25 12:52:45 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

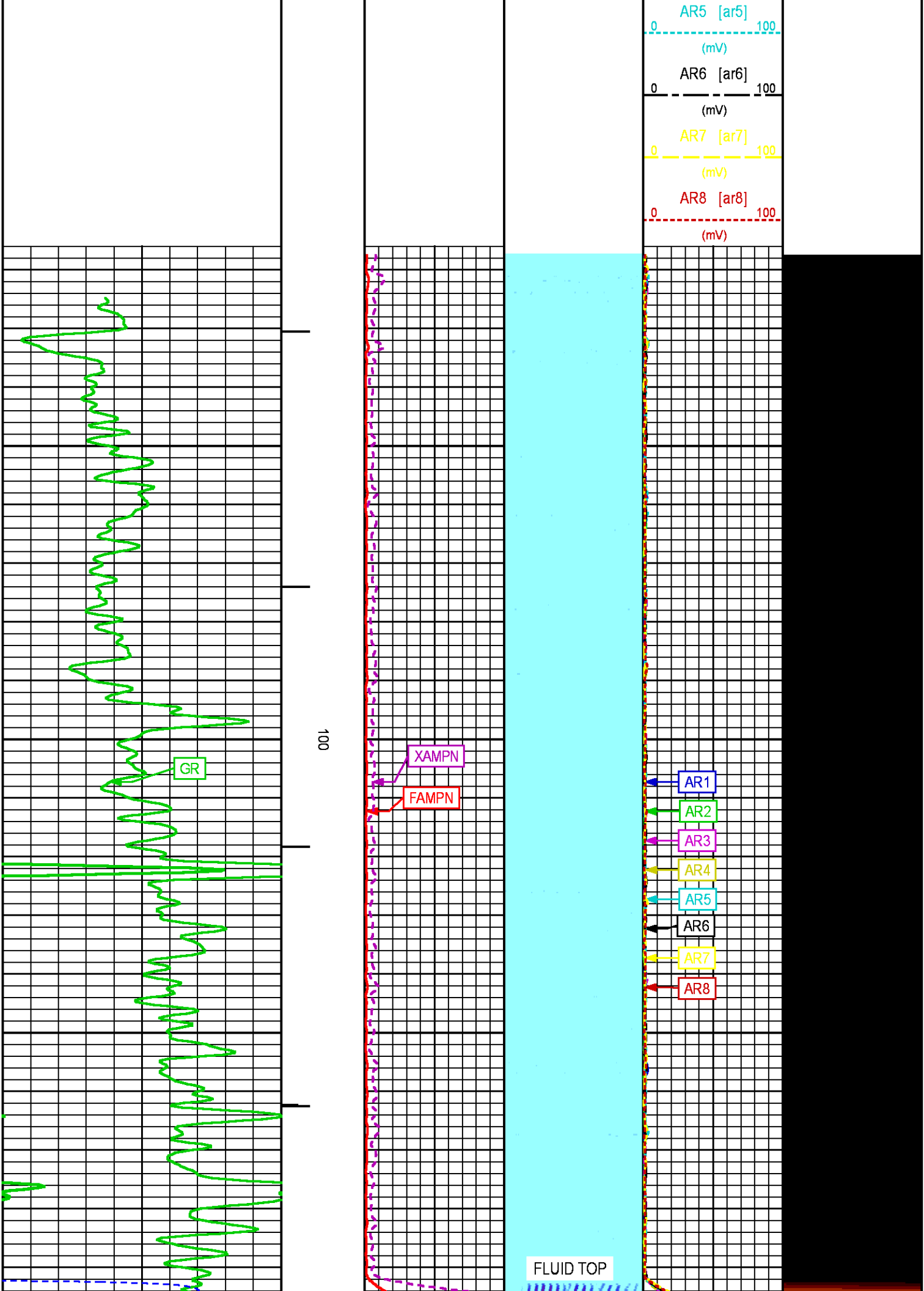
## CURVE MEASURE POINT OFFSET

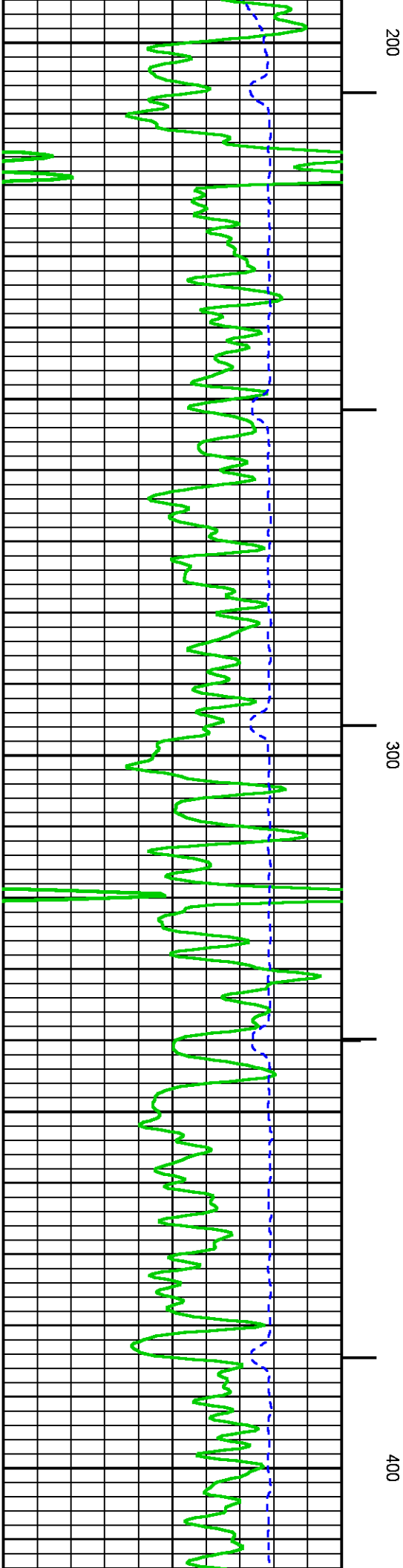
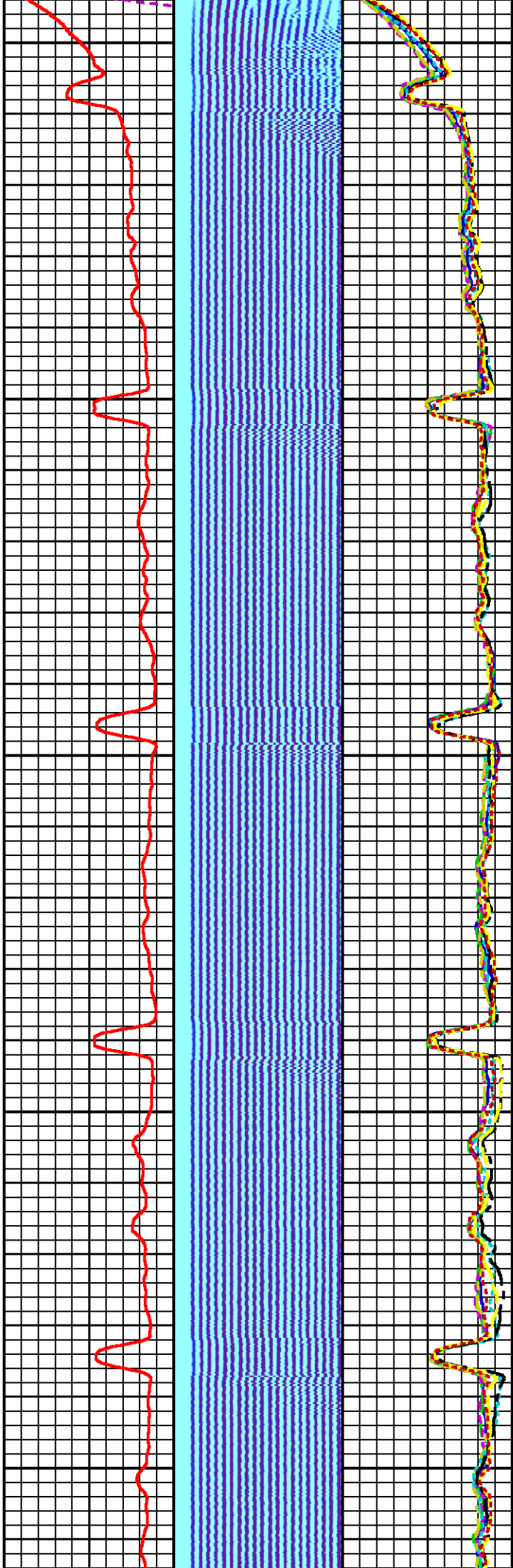
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| AR1   | 13.75       | AR5   | 13.75       | CCL   | 8.50        | XAMPN | 13.75       |
| AR2   | 13.75       | AR6   | 13.75       | FAMPN | 13.75       |       |             |
| AR3   | 13.75       | AR7   | 13.75       | GR    | 6.50        |       |             |
| AR4   | 13.75       | AR8   | 13.75       | TTN   | 13.75       |       |             |

**Presentation** : cas6685:/dat1a/CH096703/CBLMAIN.fvpdf [5"/100' Scale]  
**Plot Interval** : 17.25 - 12728.5 Feet

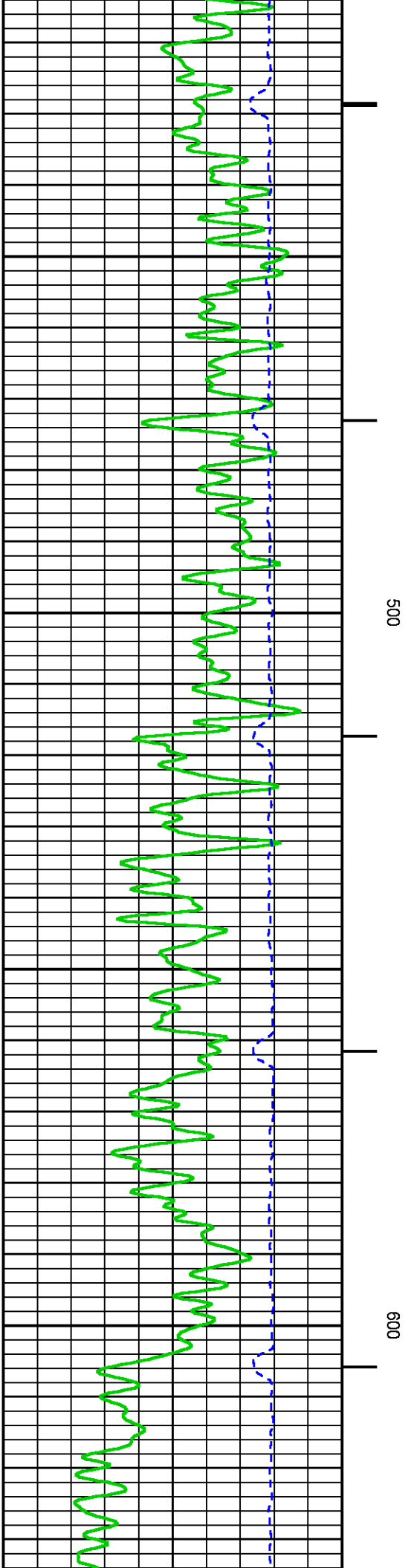
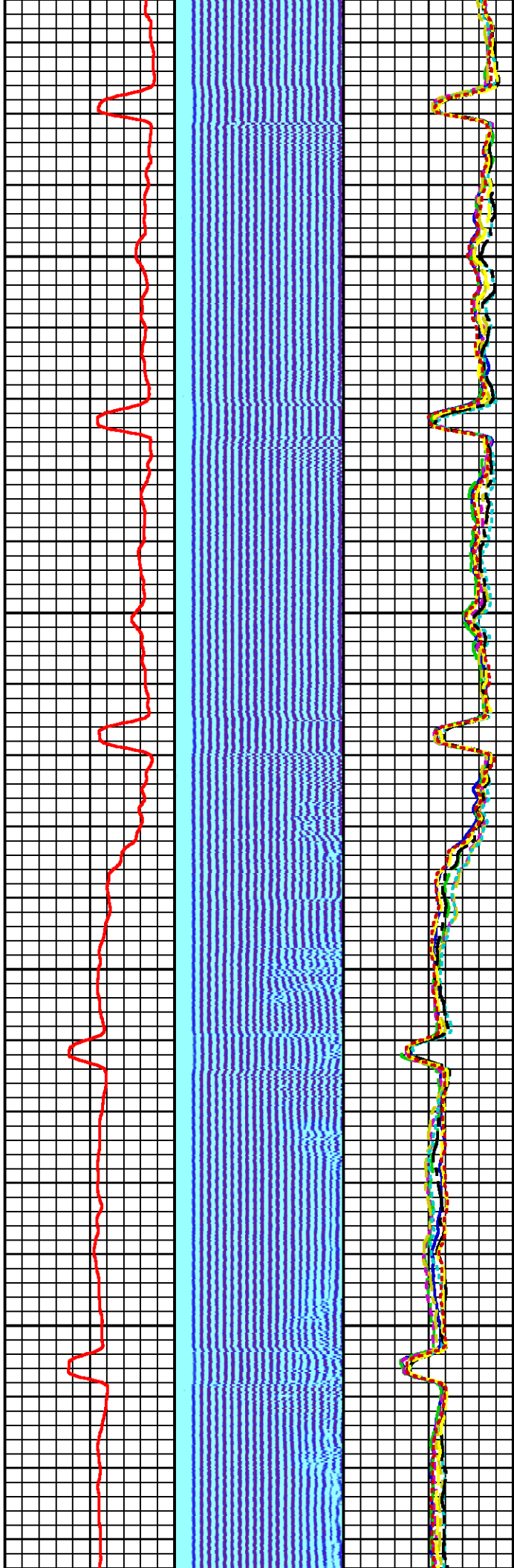
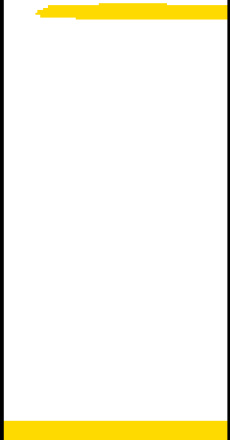
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**Created On** : May 25 12:52:45 2015  
**Company** : WPX ENERGY  
**Well** : FEDERAL RGU 313-25-198  
**Field** : SULPHUR CREEK  
**File Interval** : 16.25 - 12729.8 Feet  
**OCT** : n012e

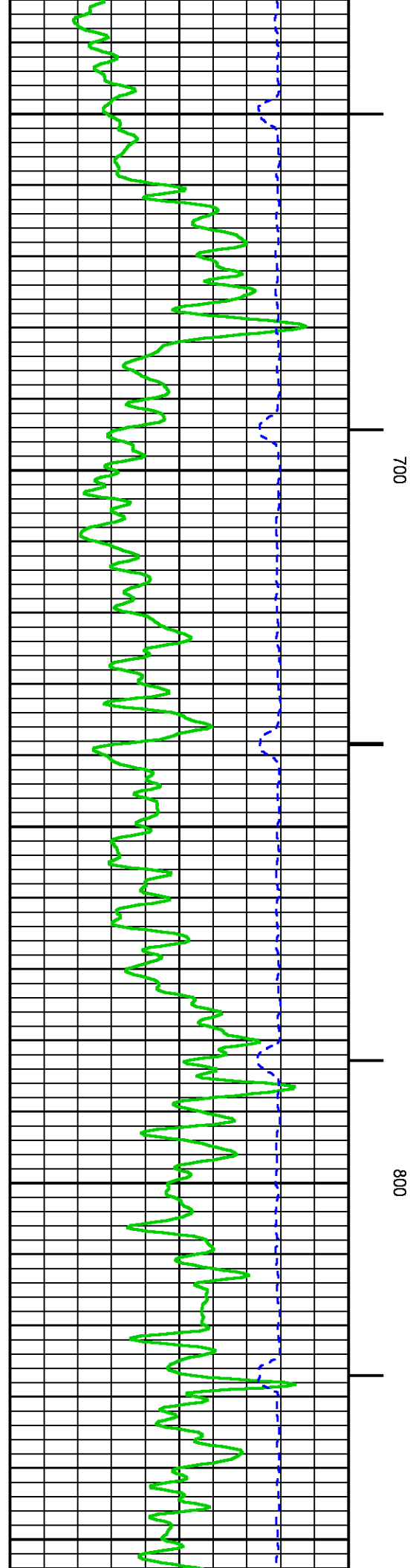
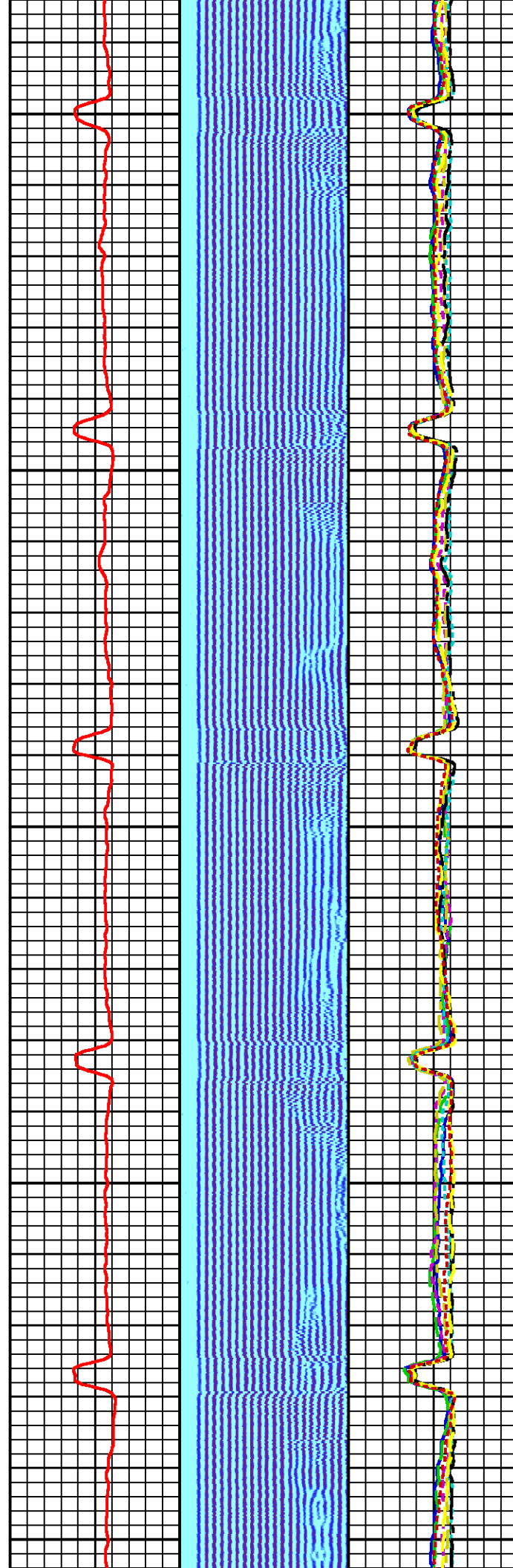
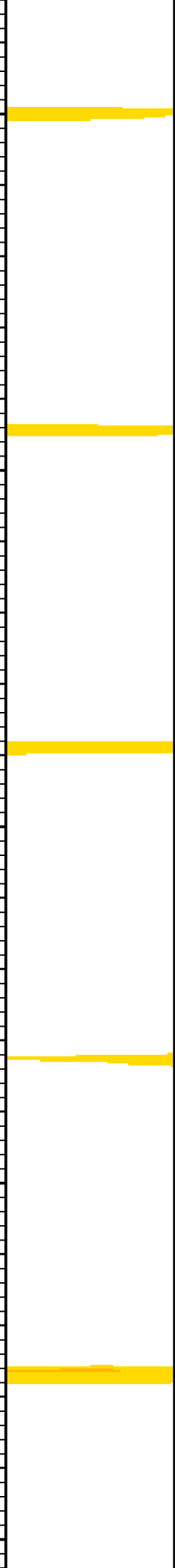


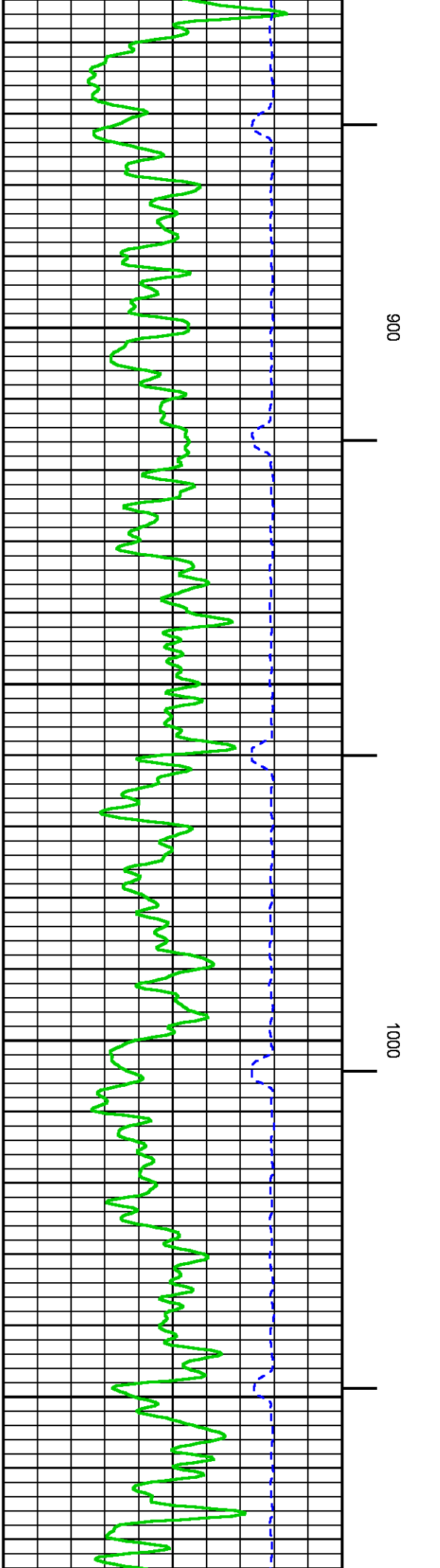
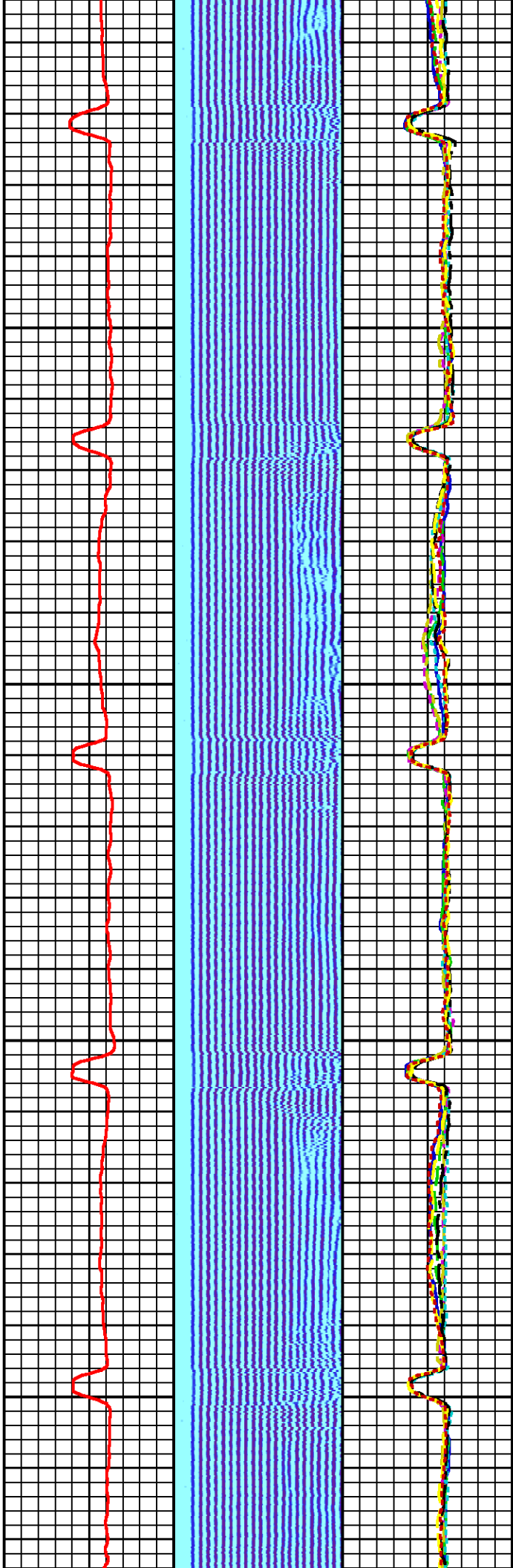
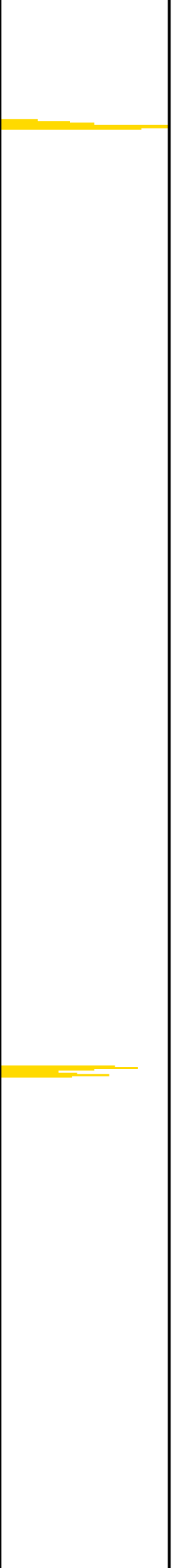


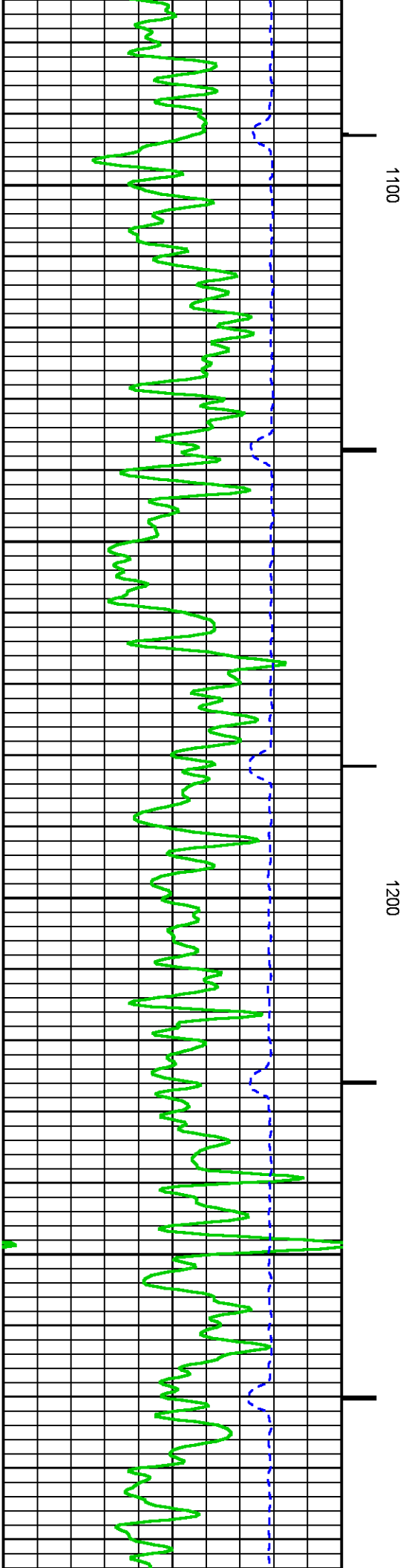
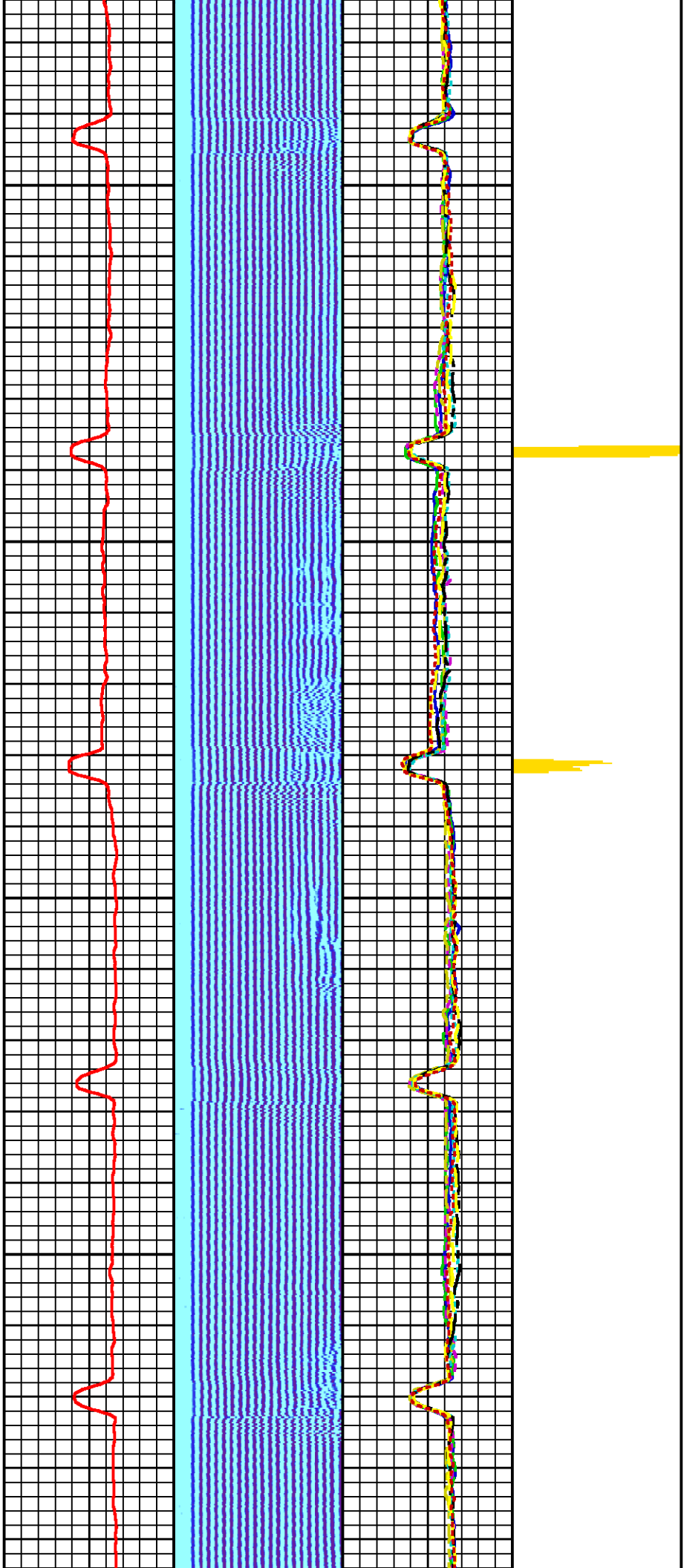




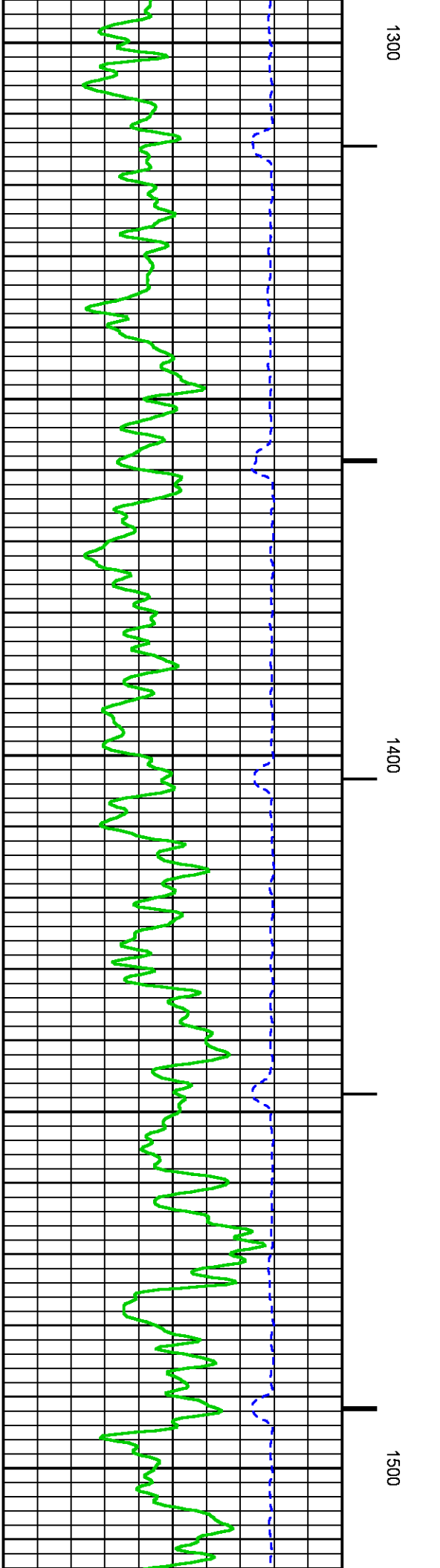
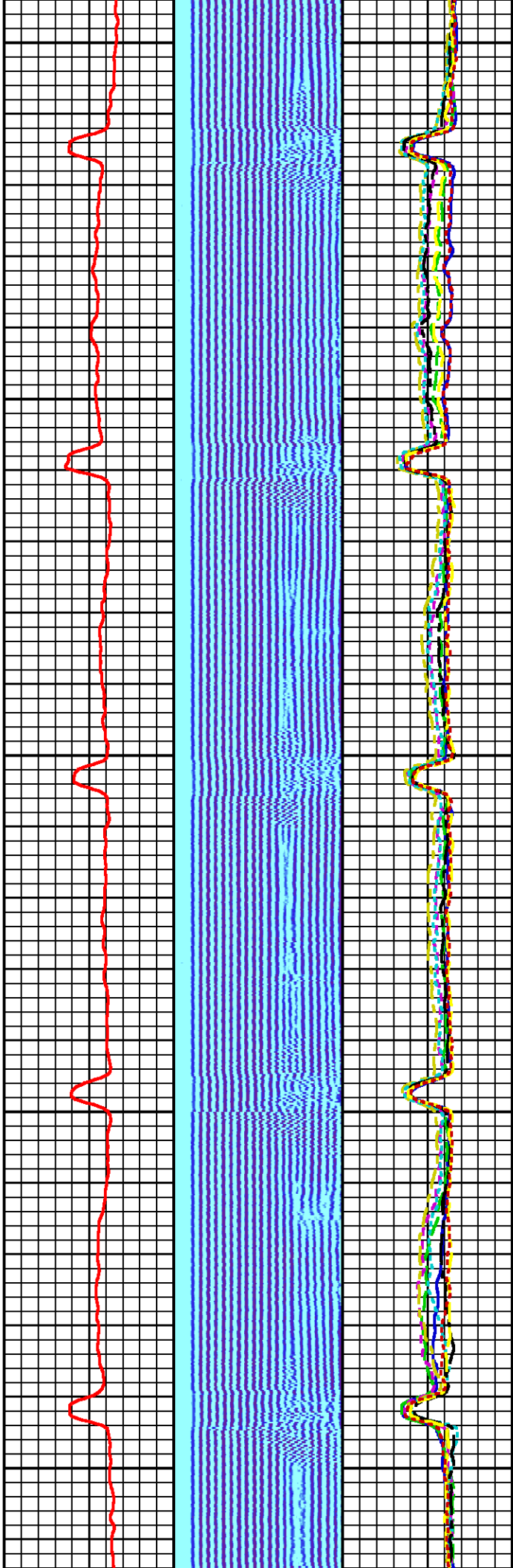
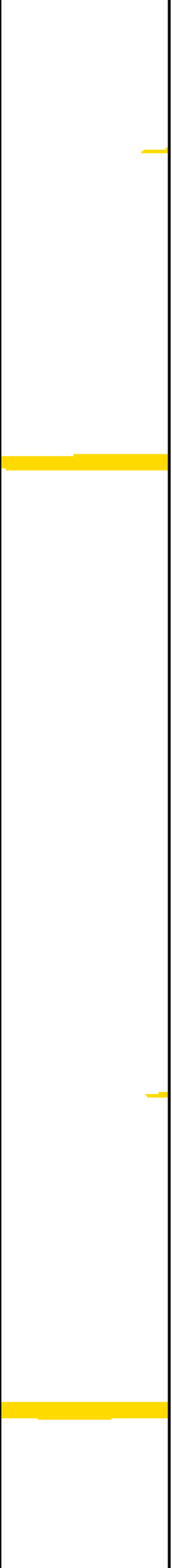


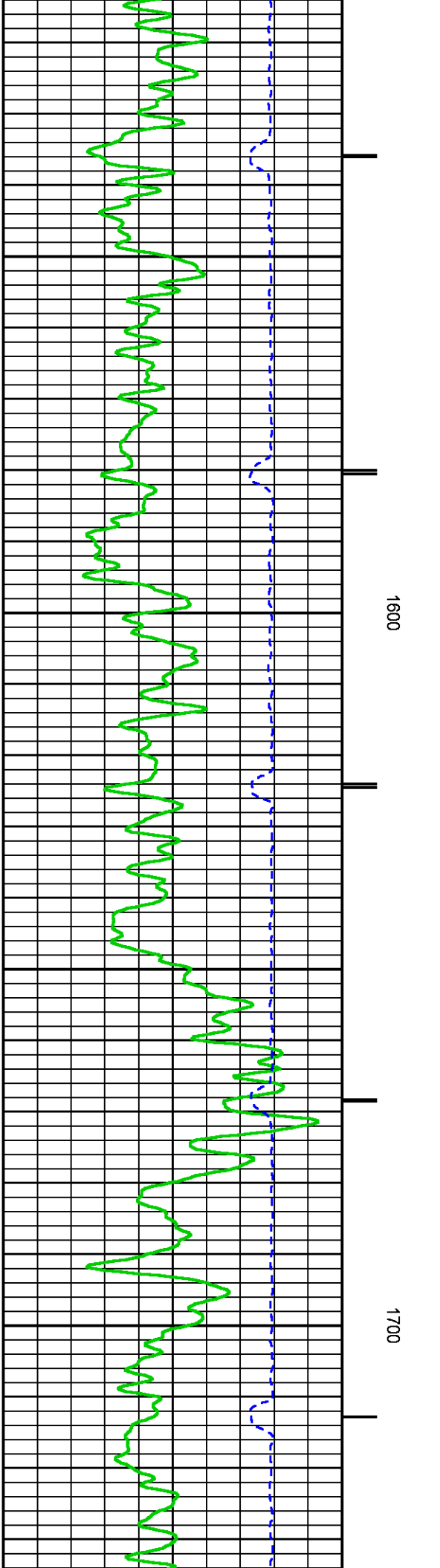
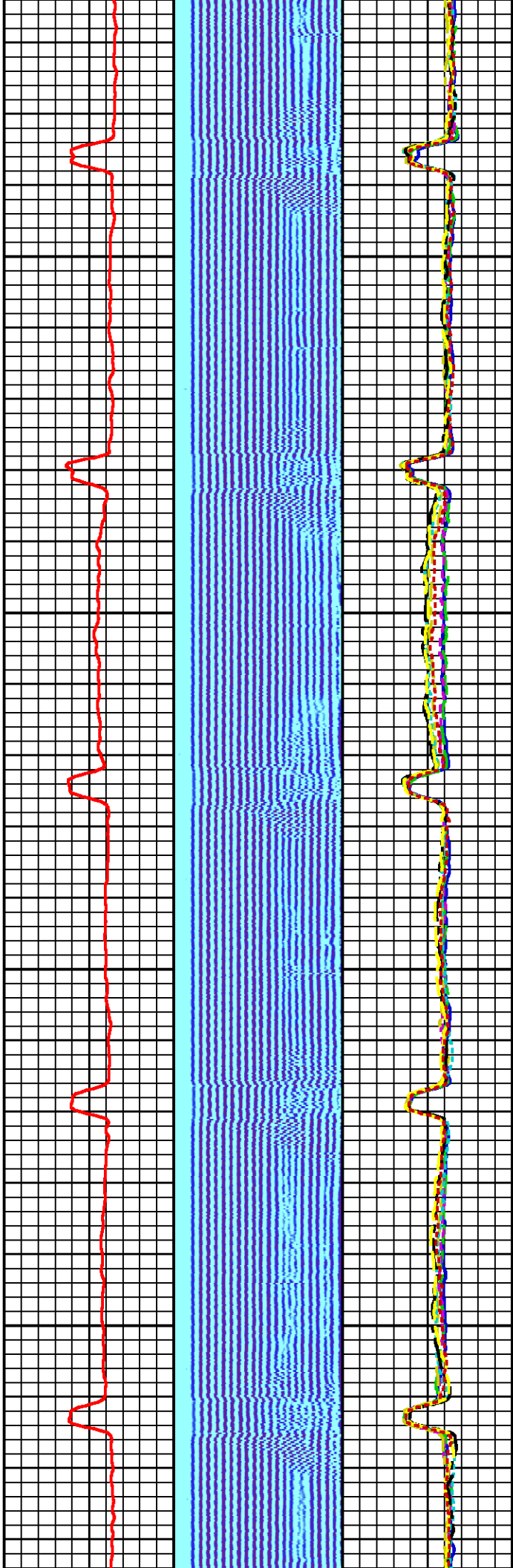
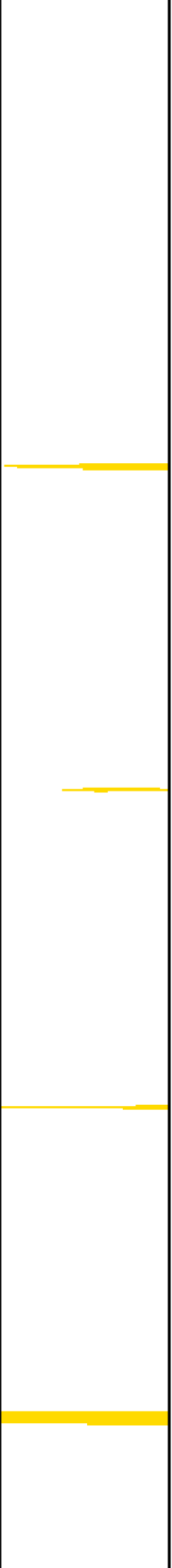


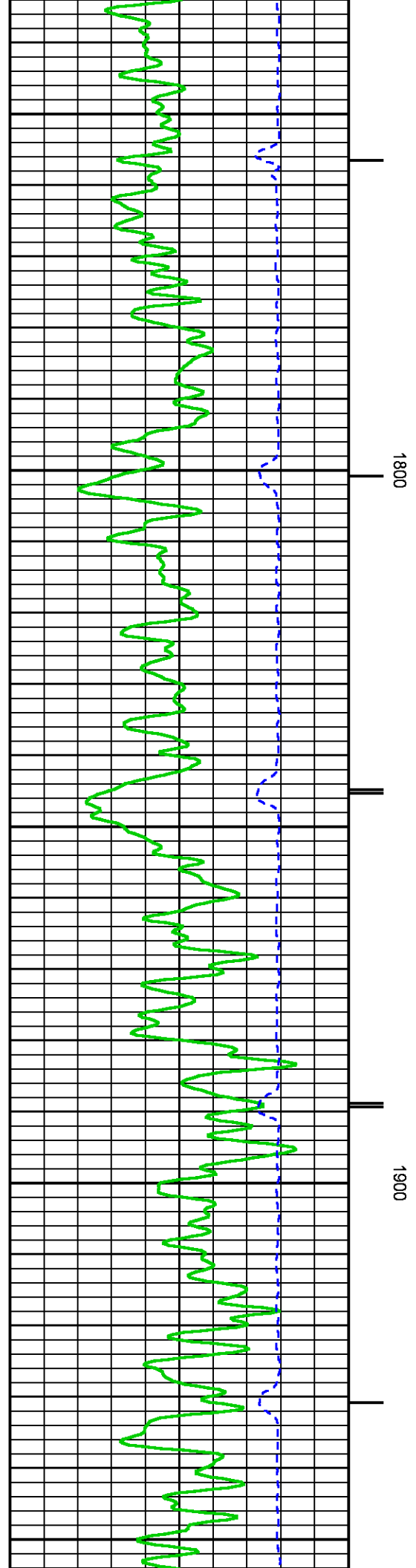
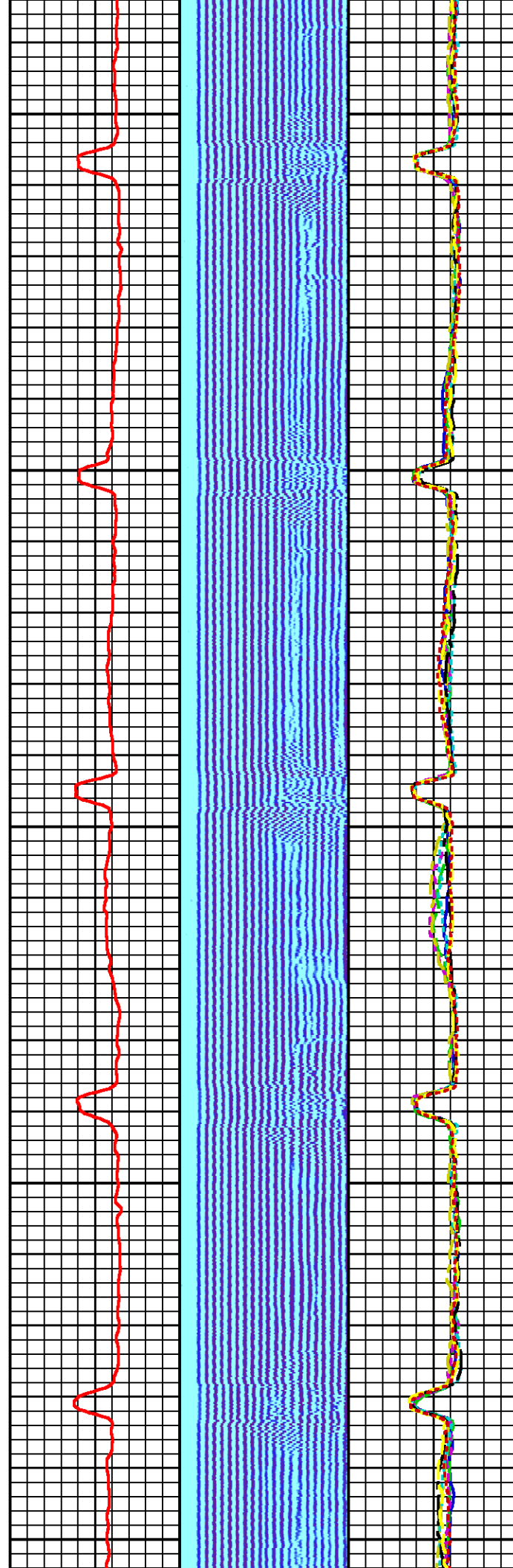
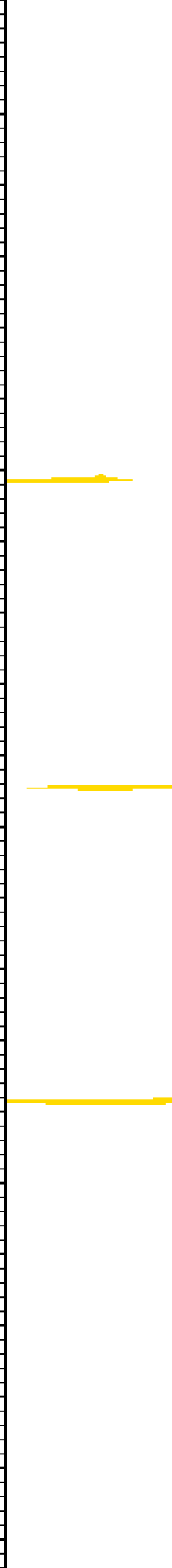


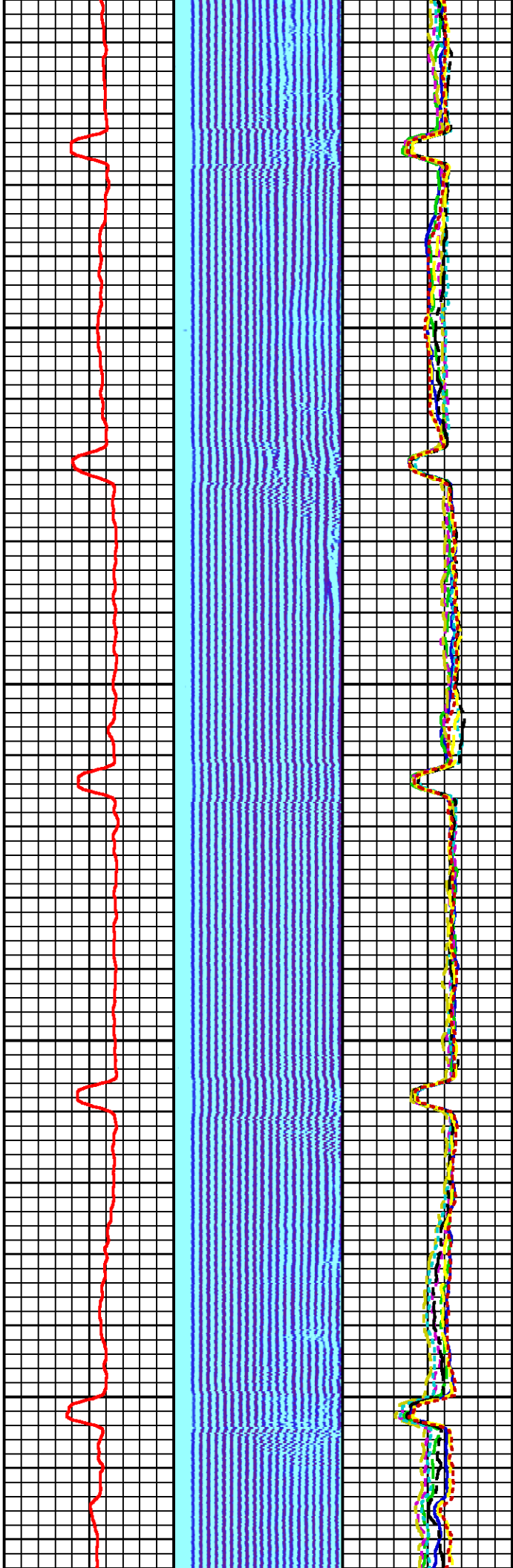






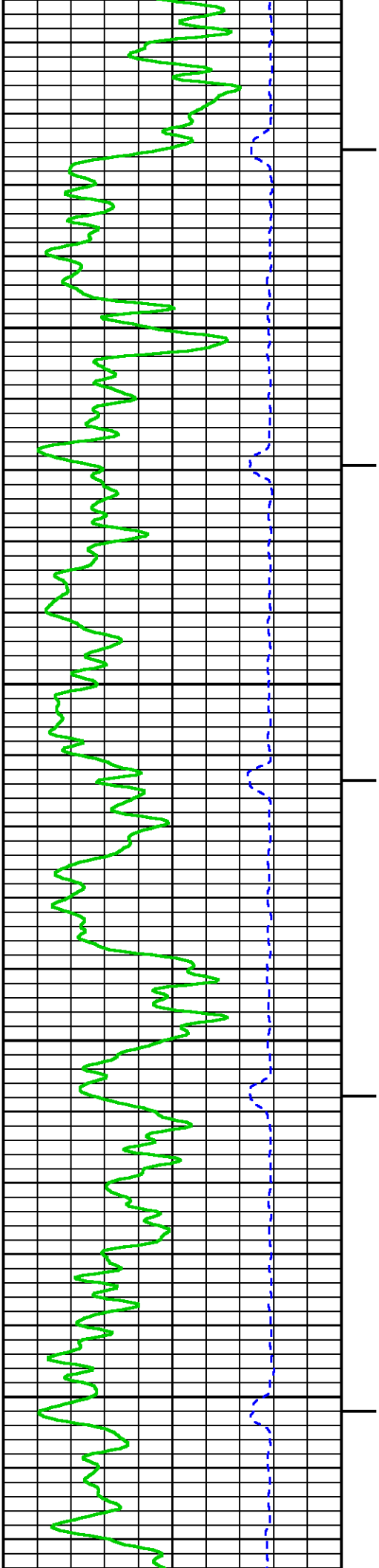




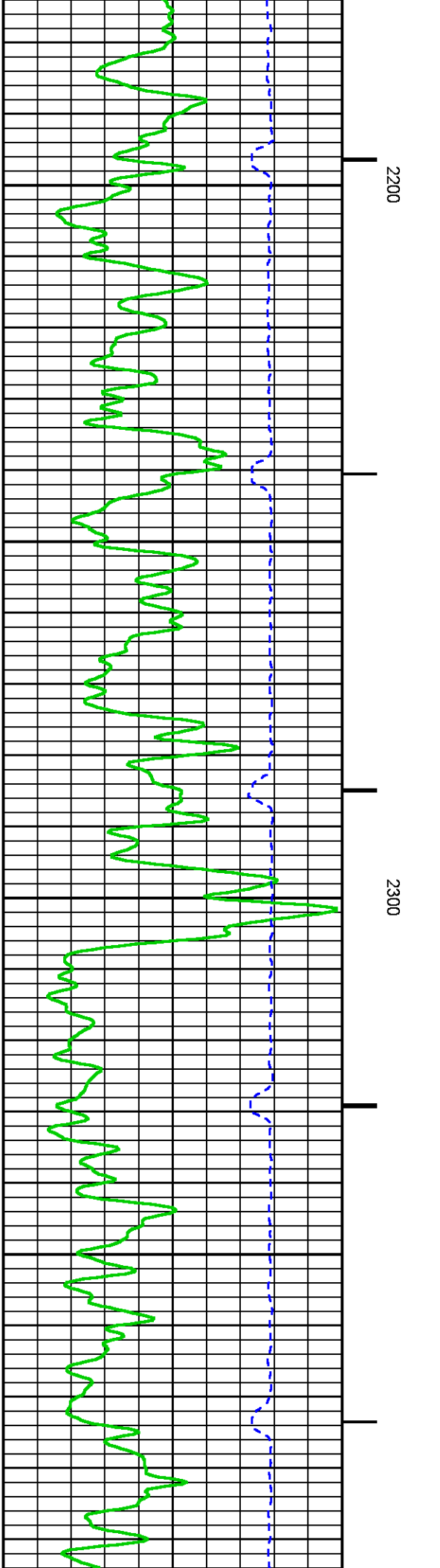
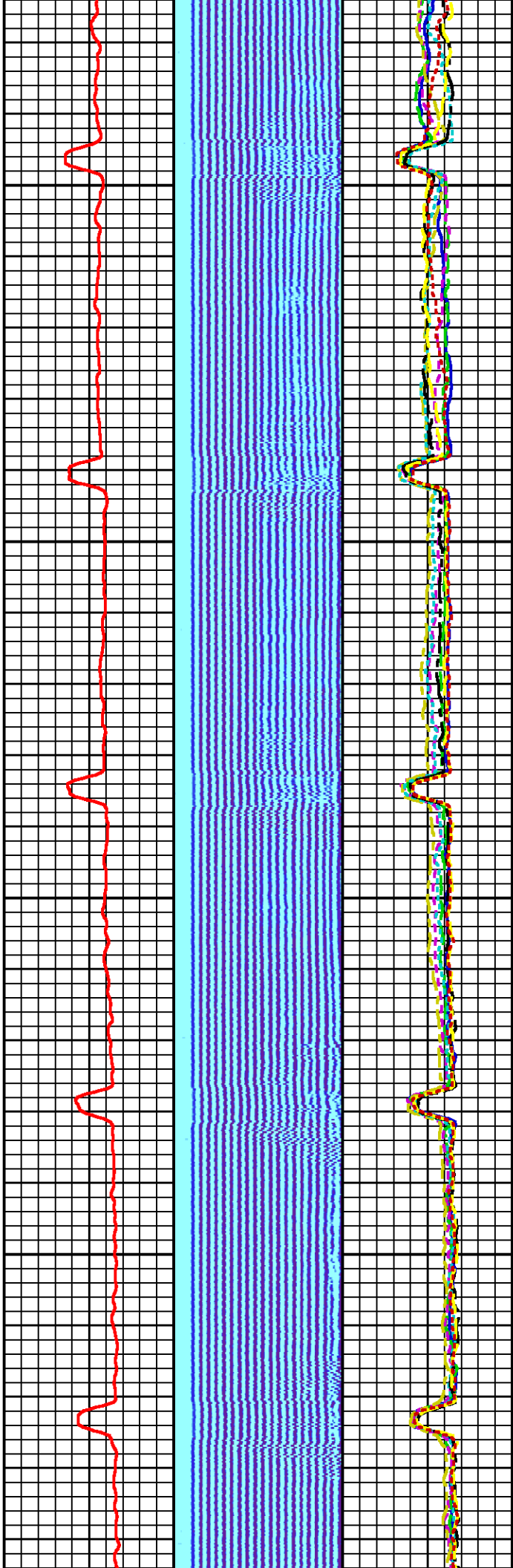
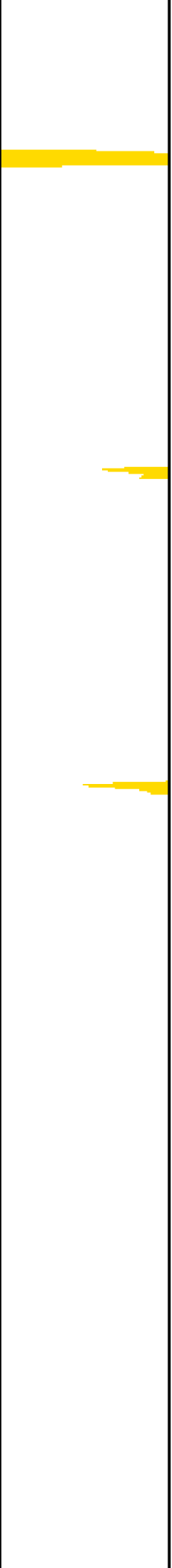


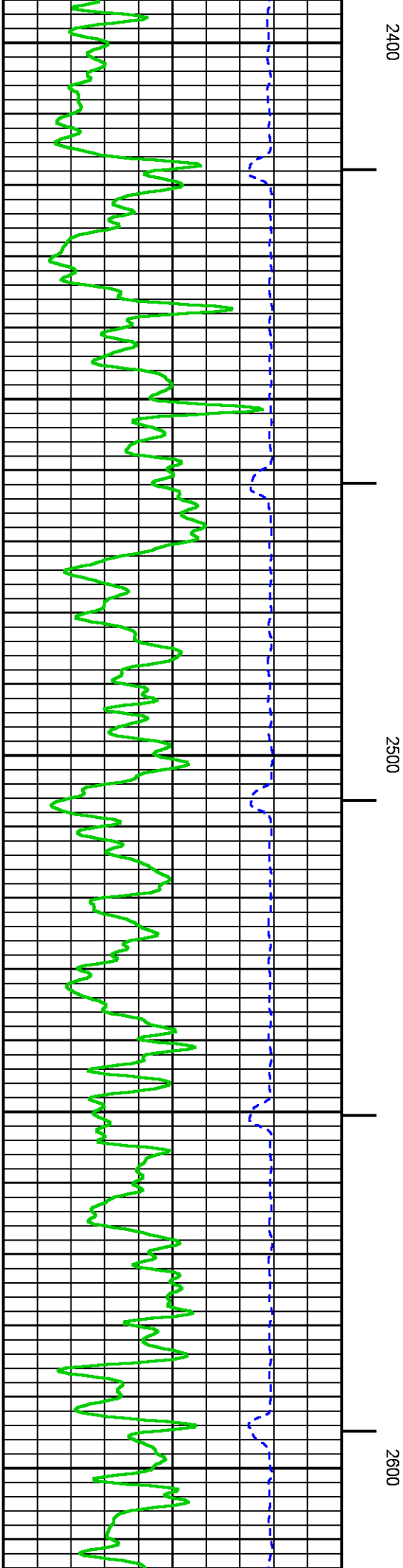
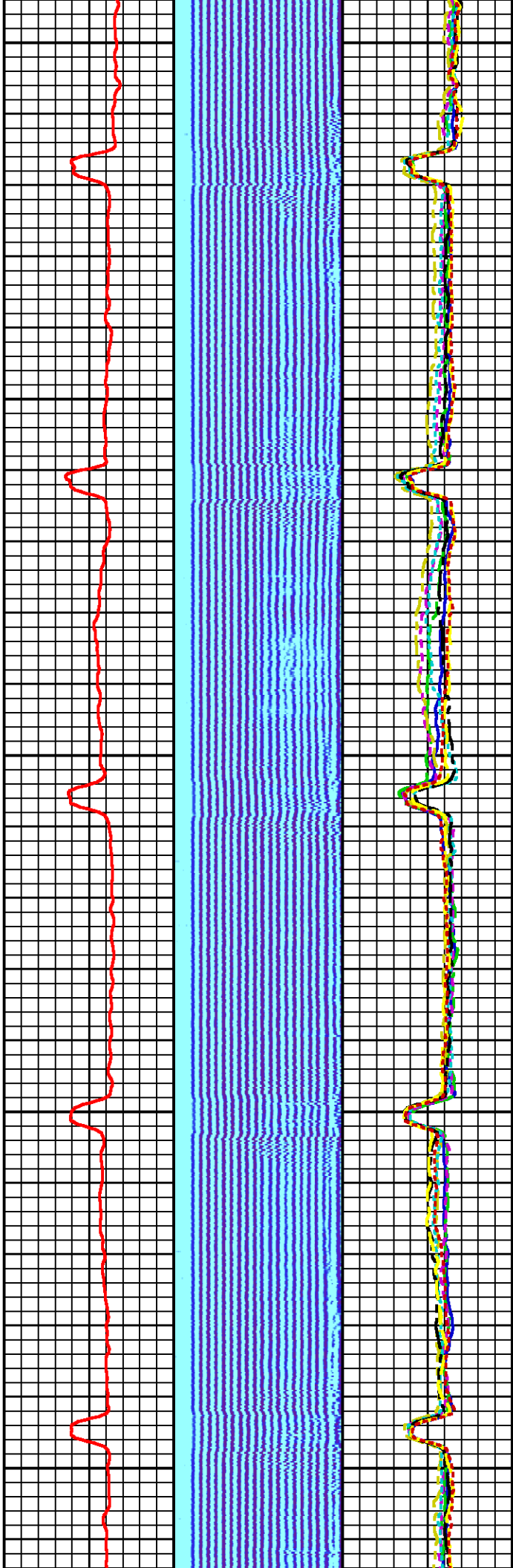
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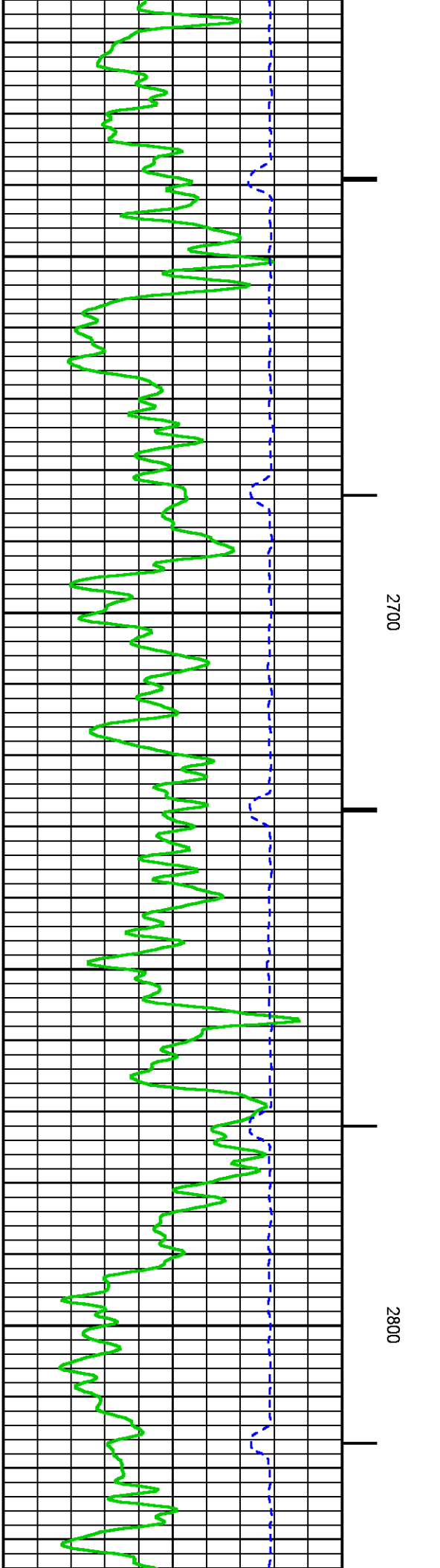
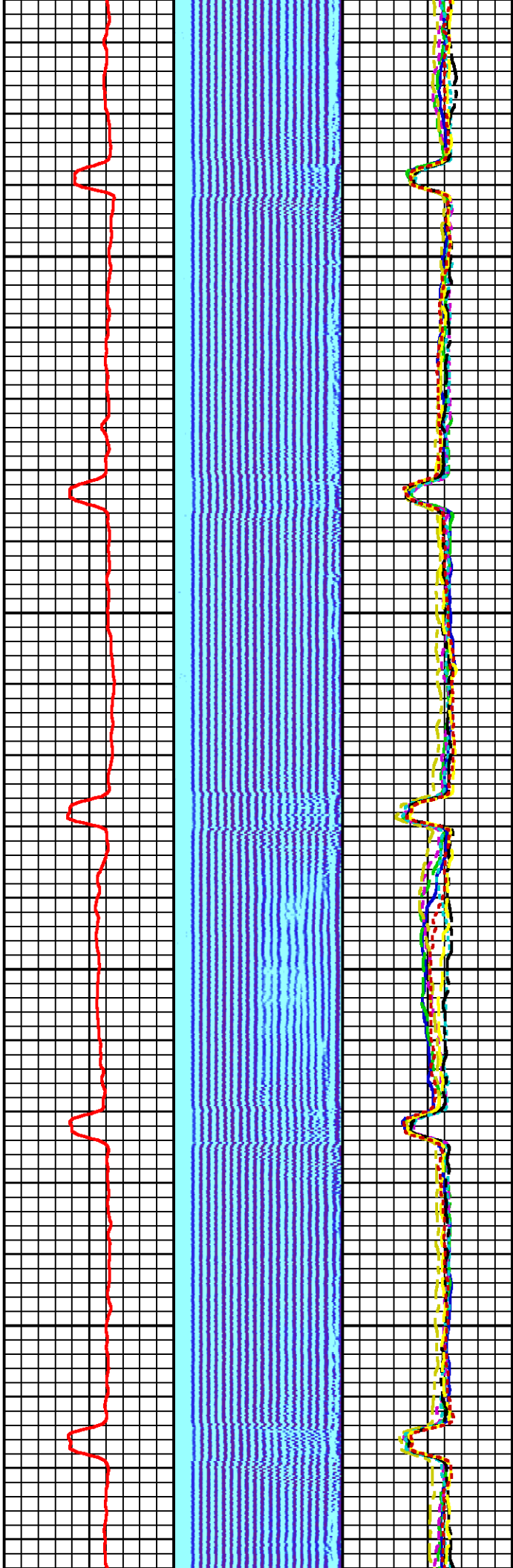
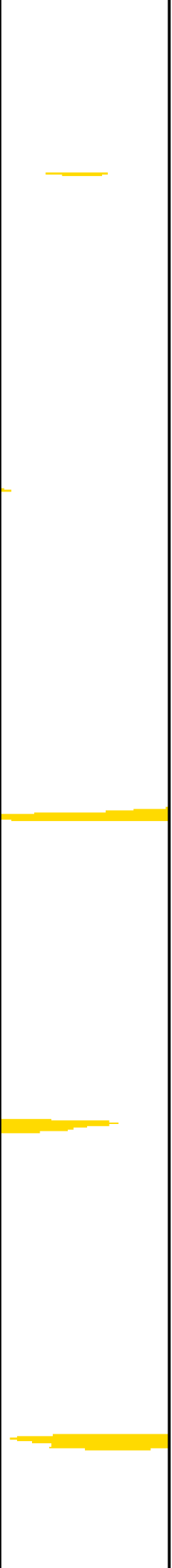
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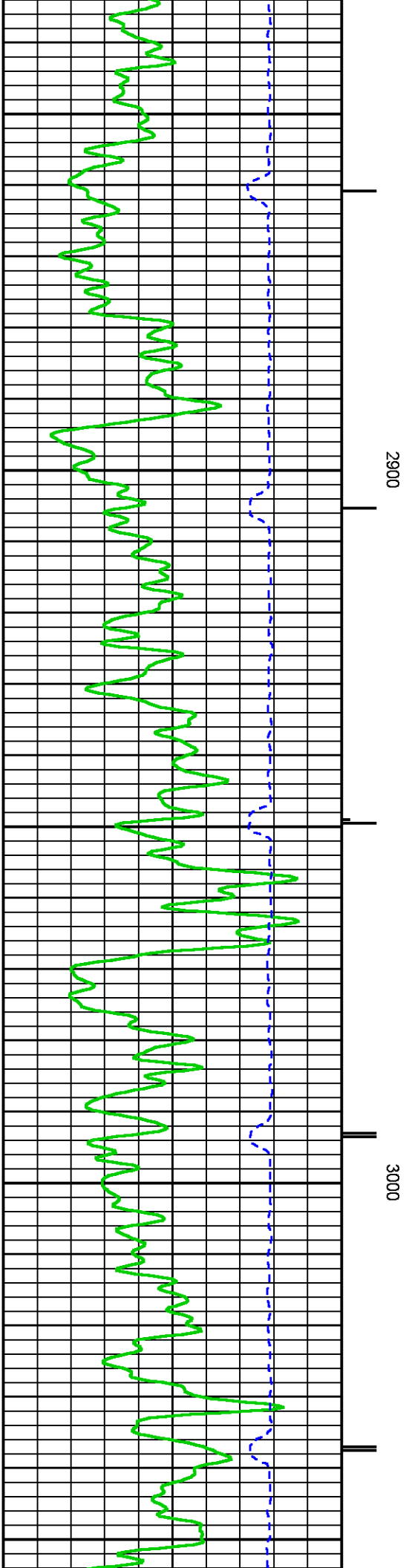
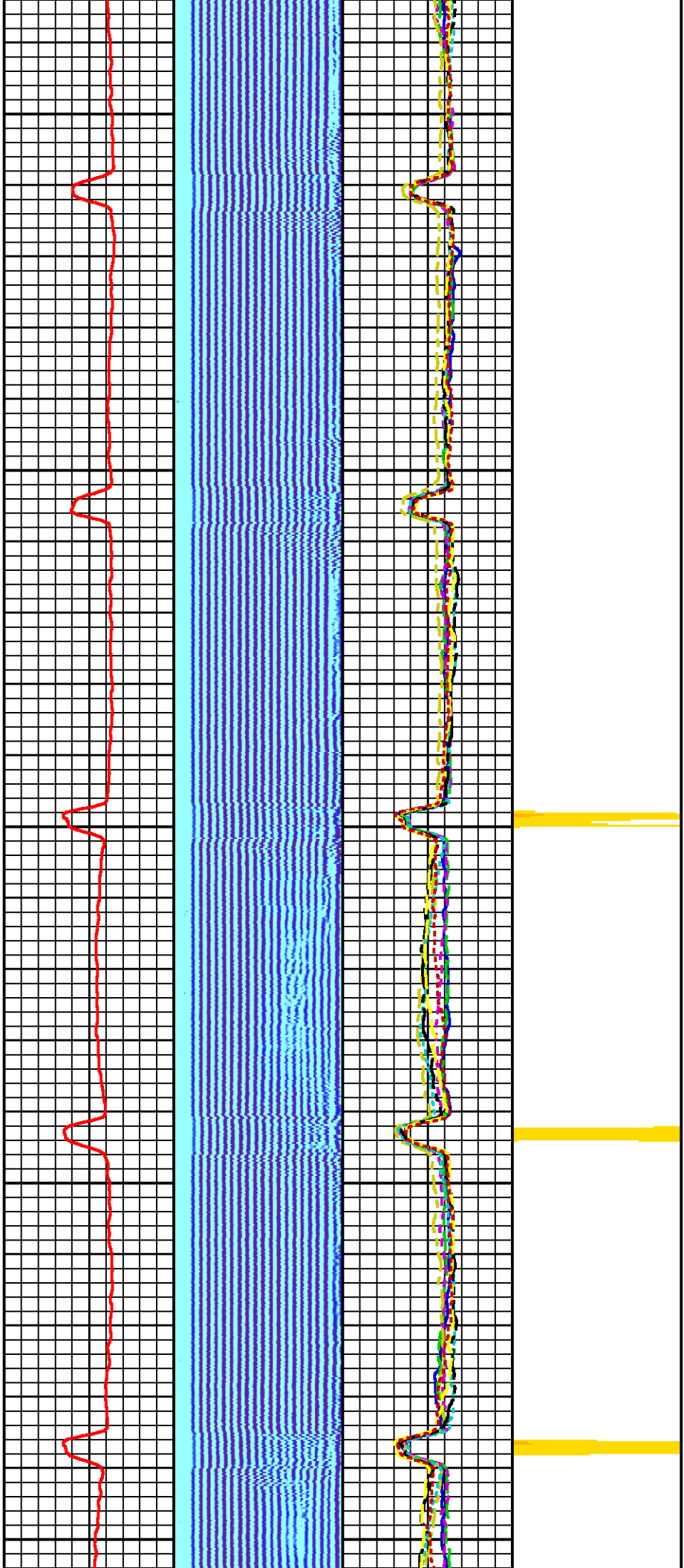




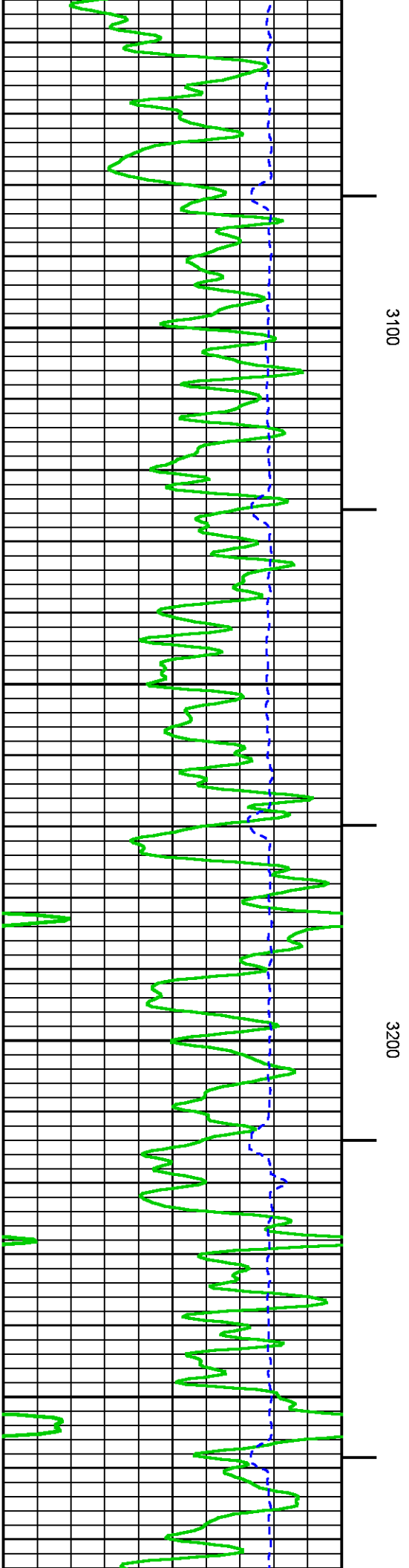
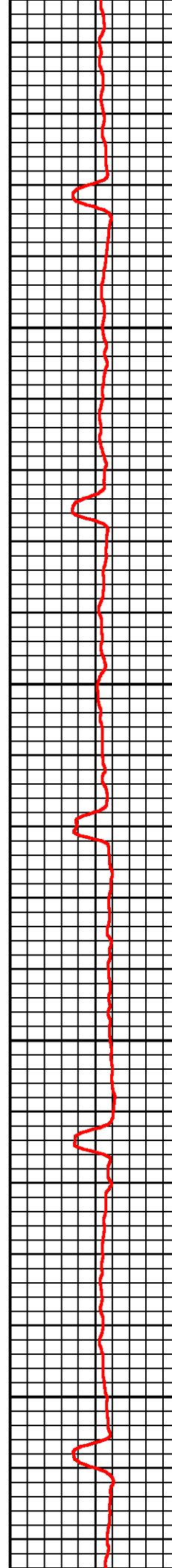
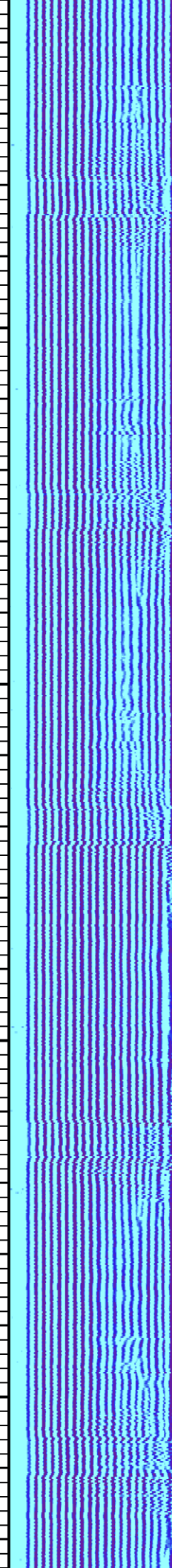
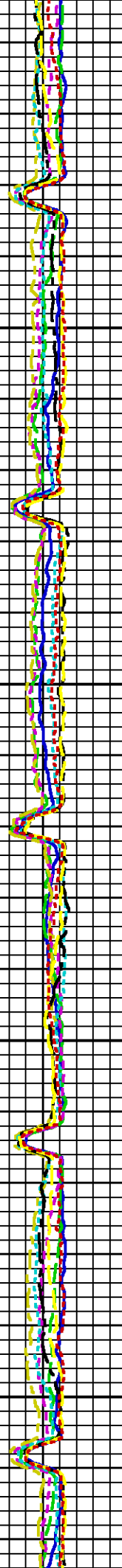


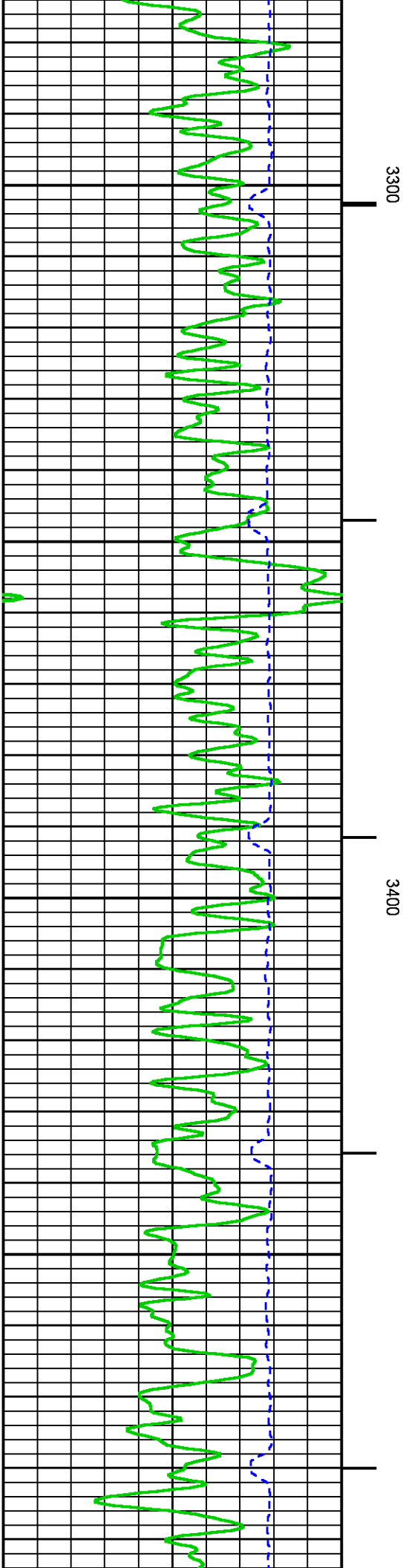
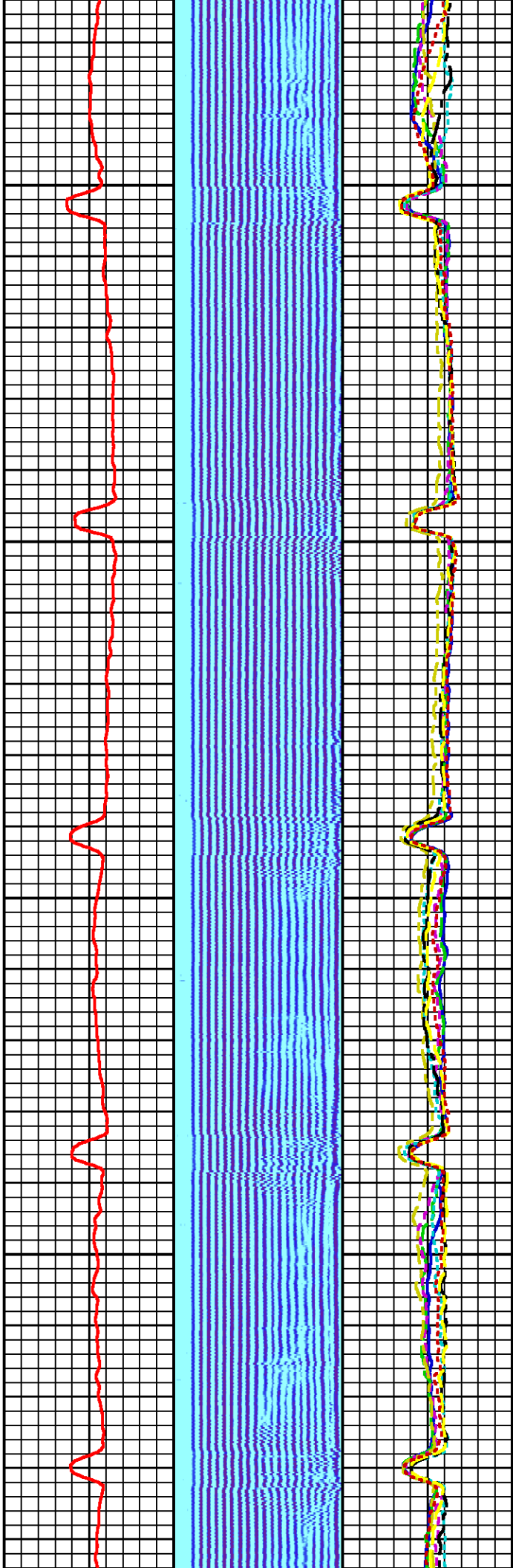


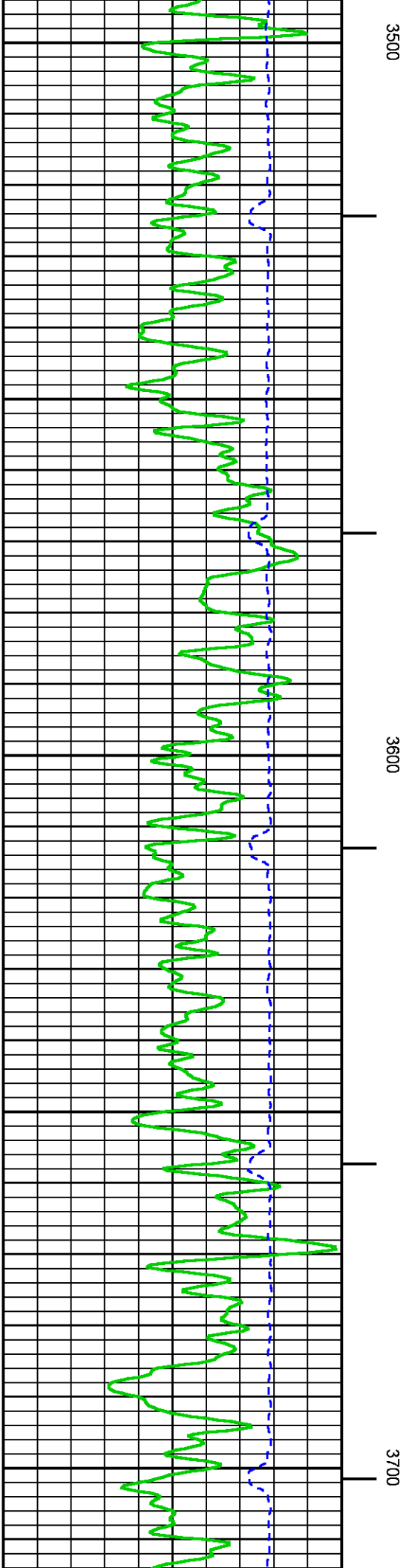
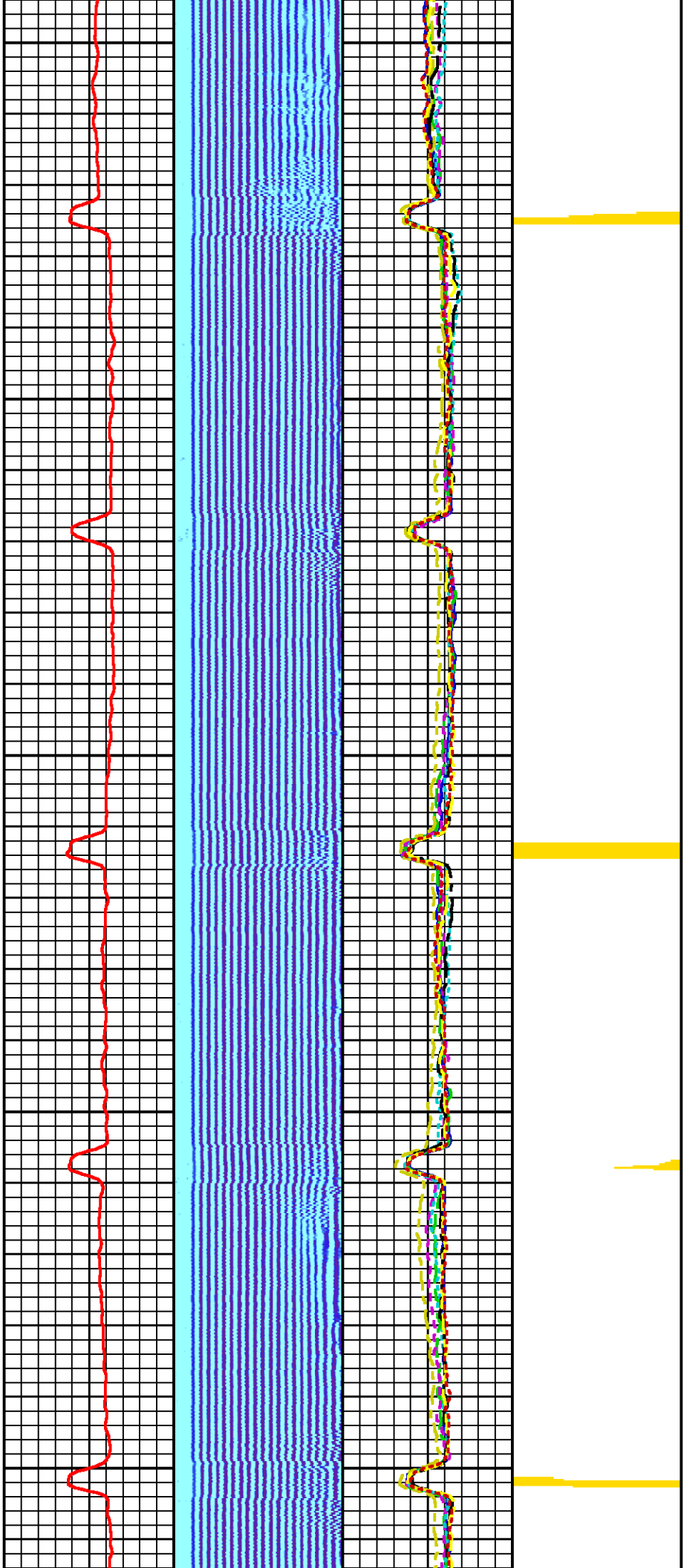


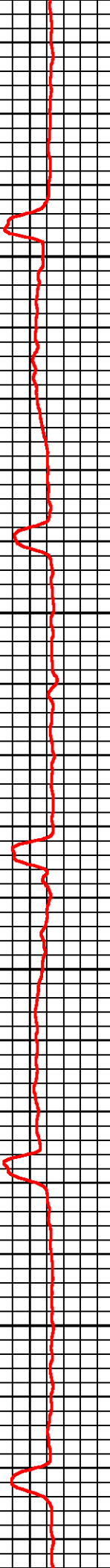
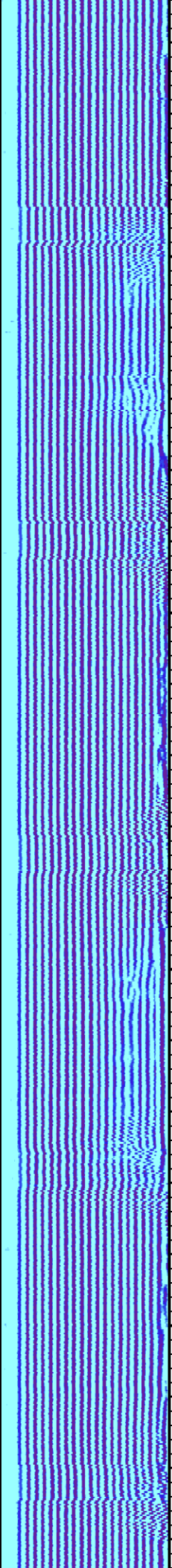
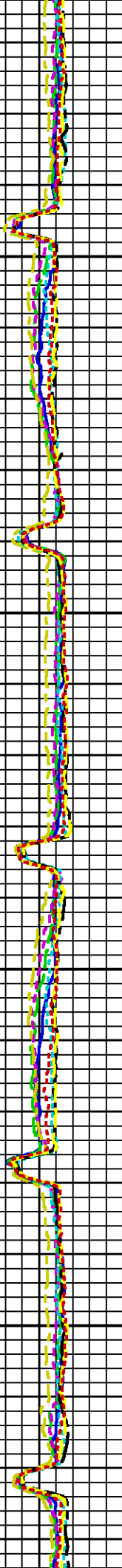






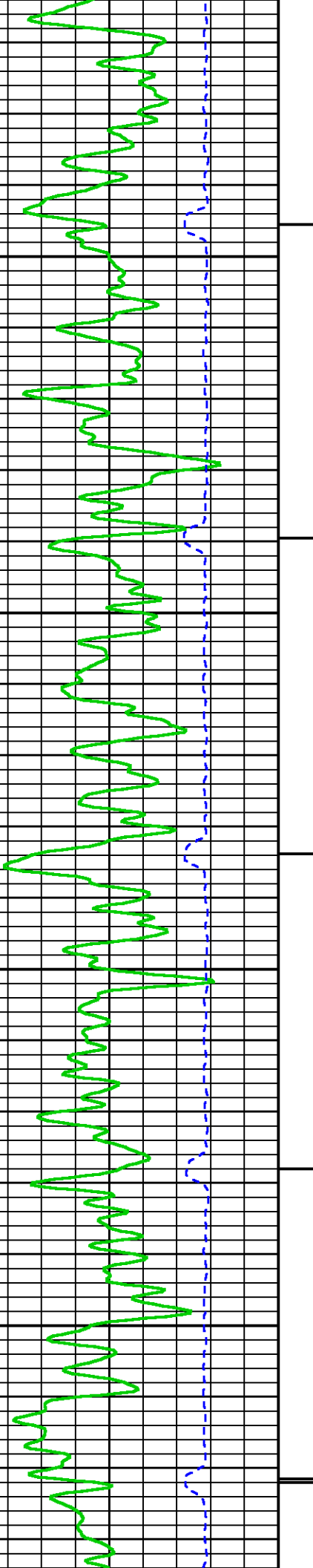




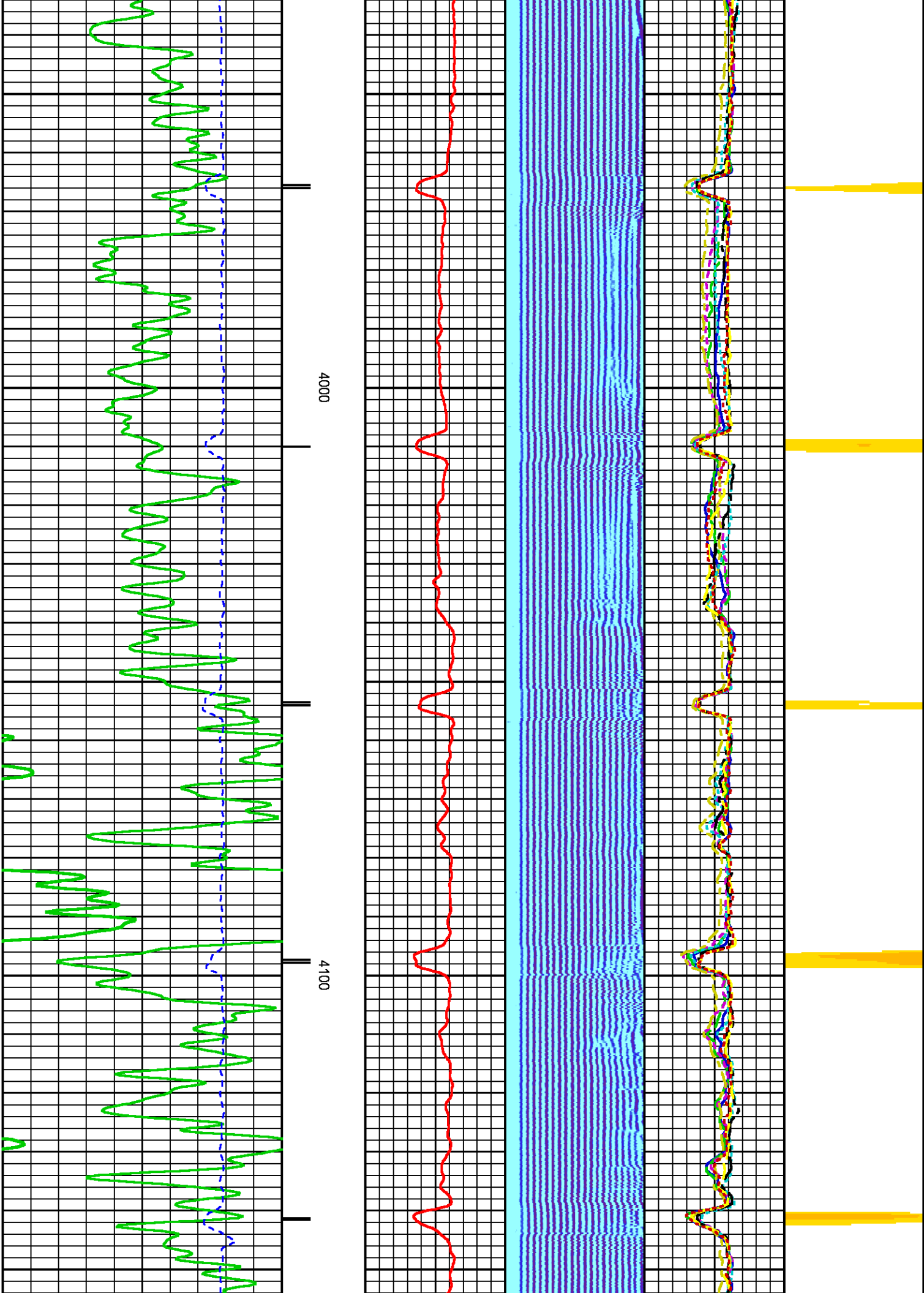


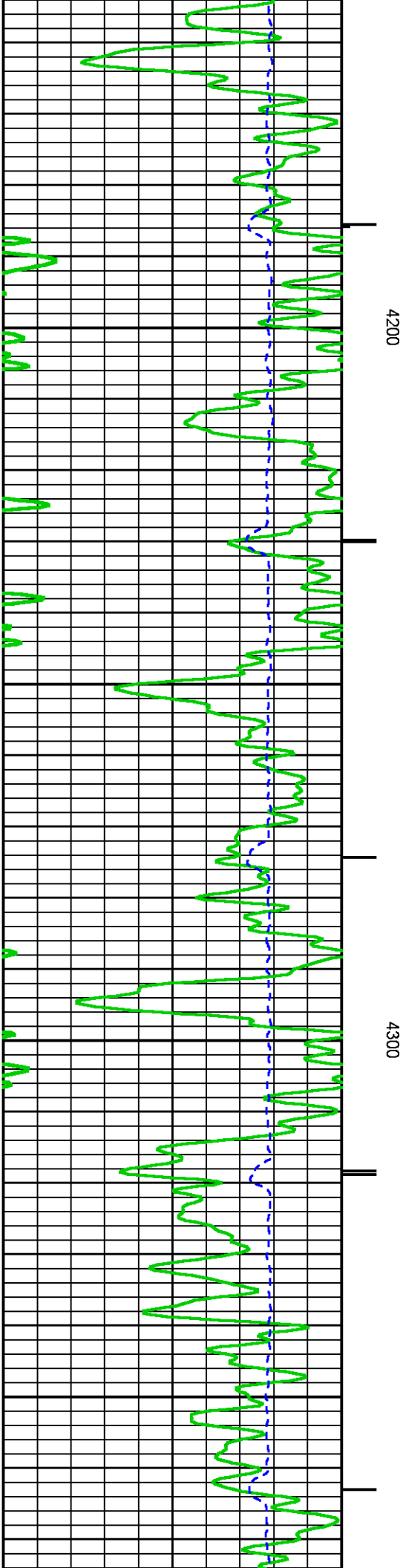
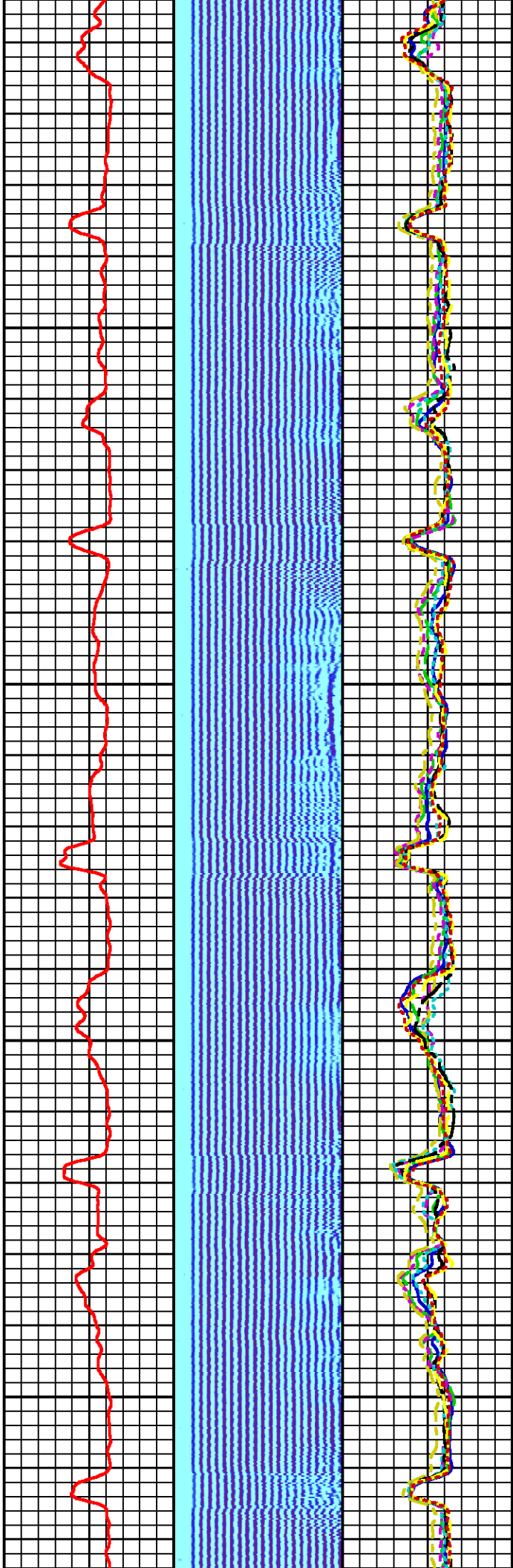
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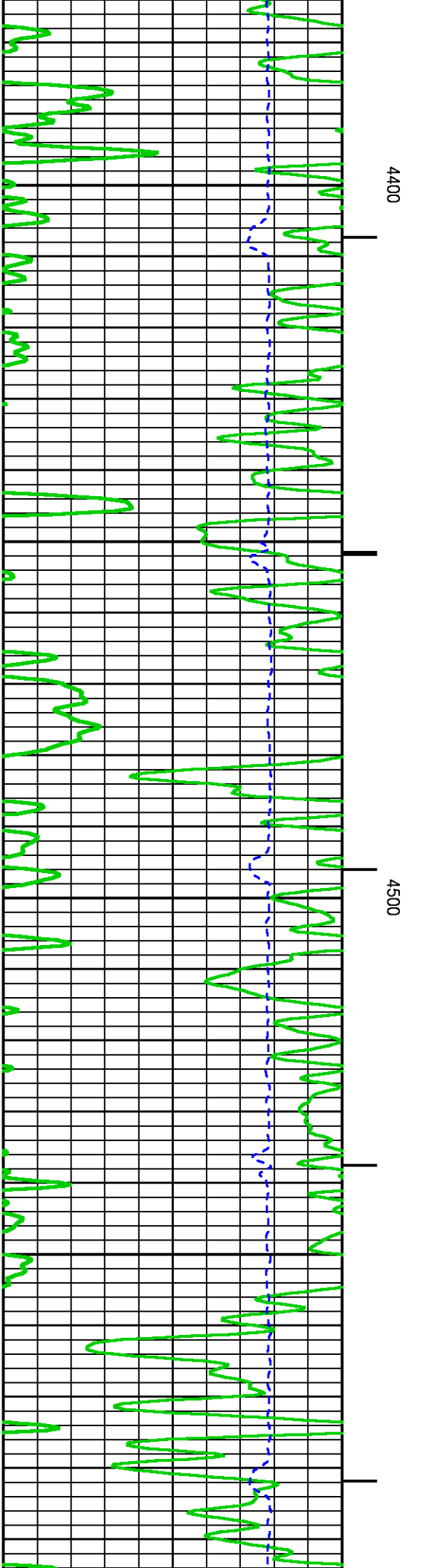
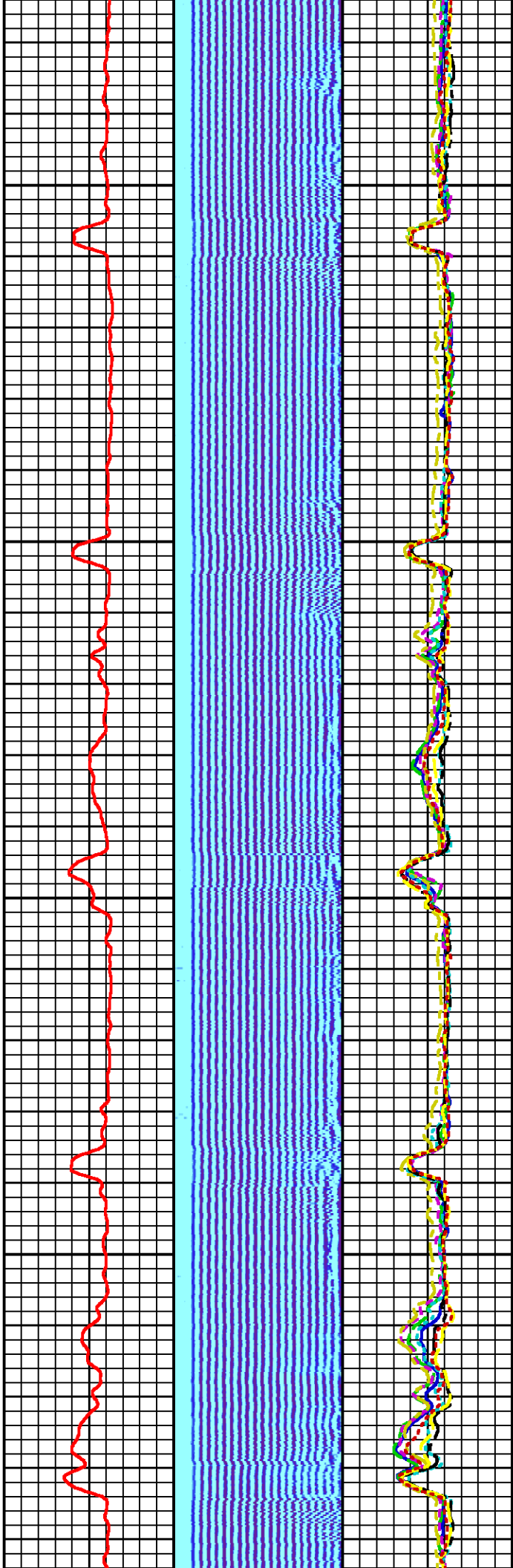
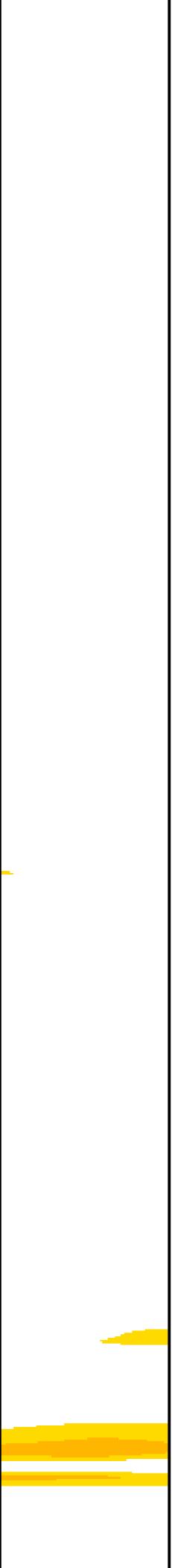
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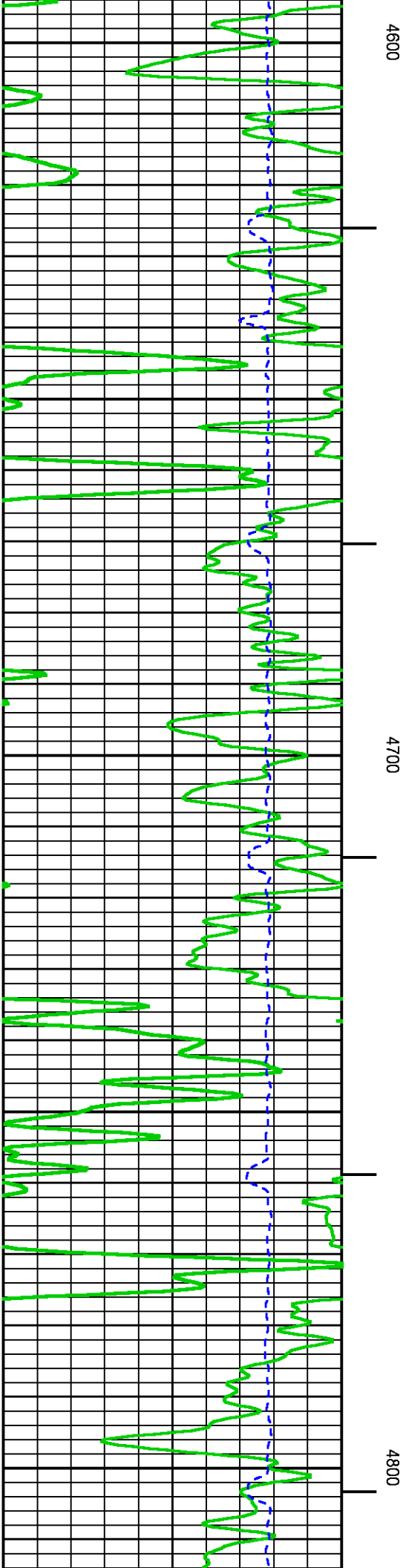
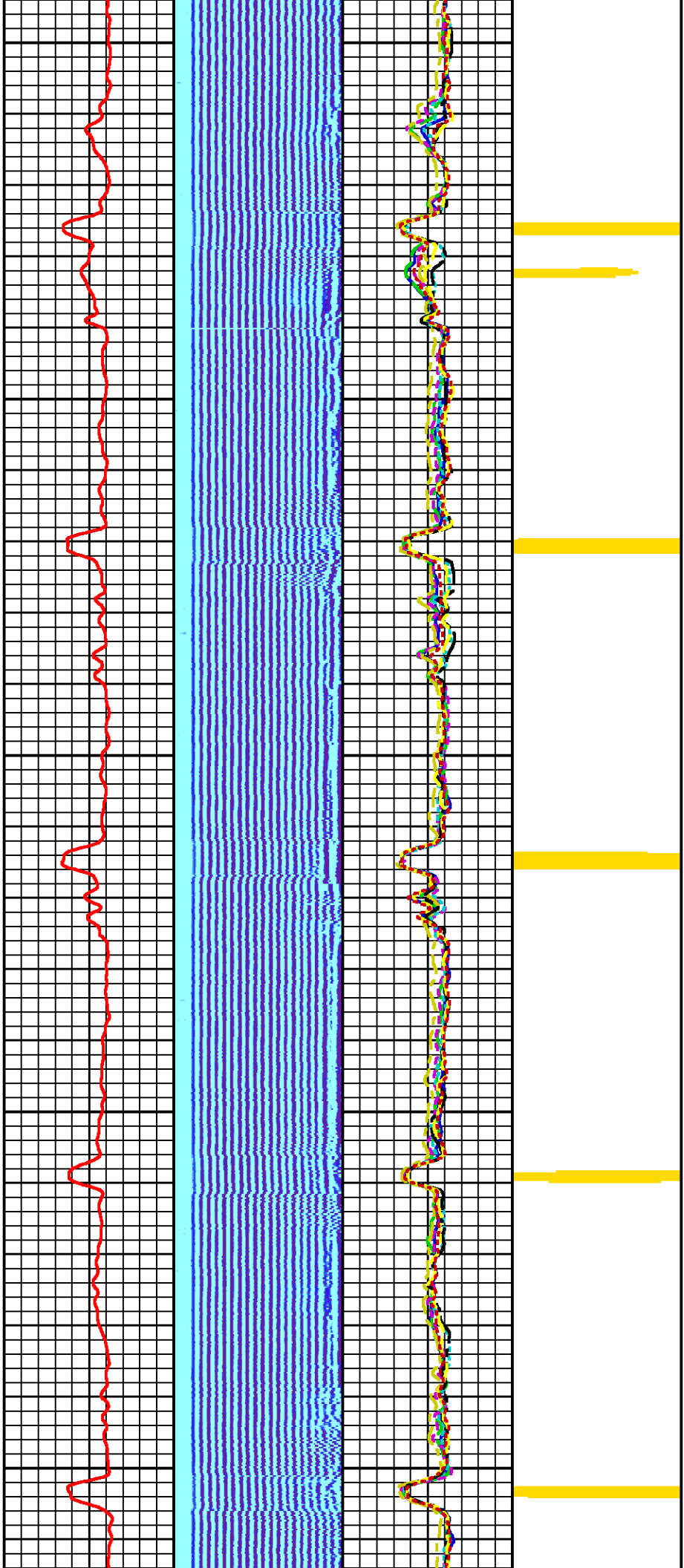




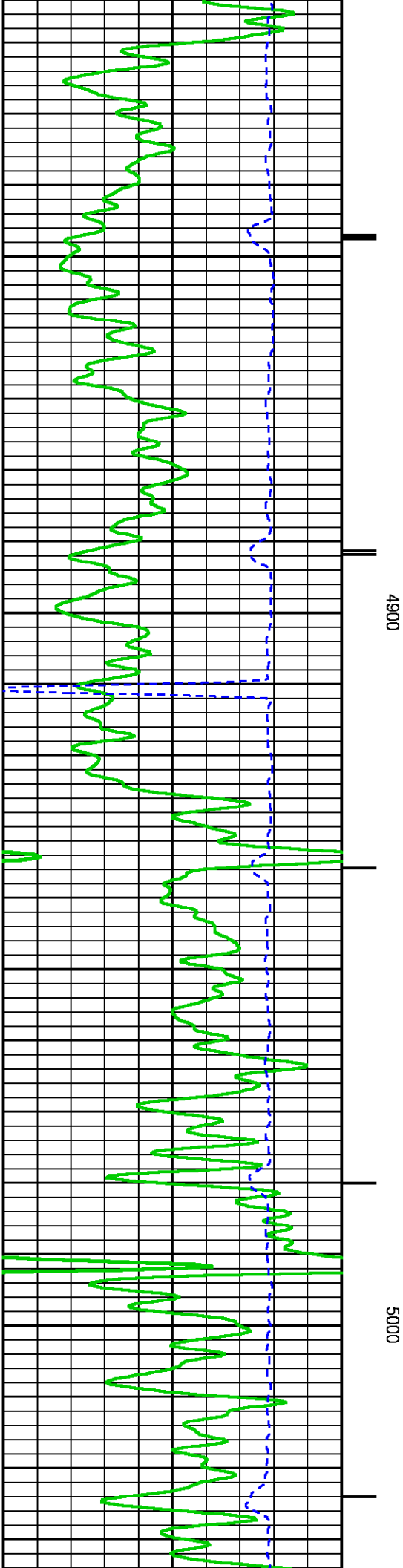
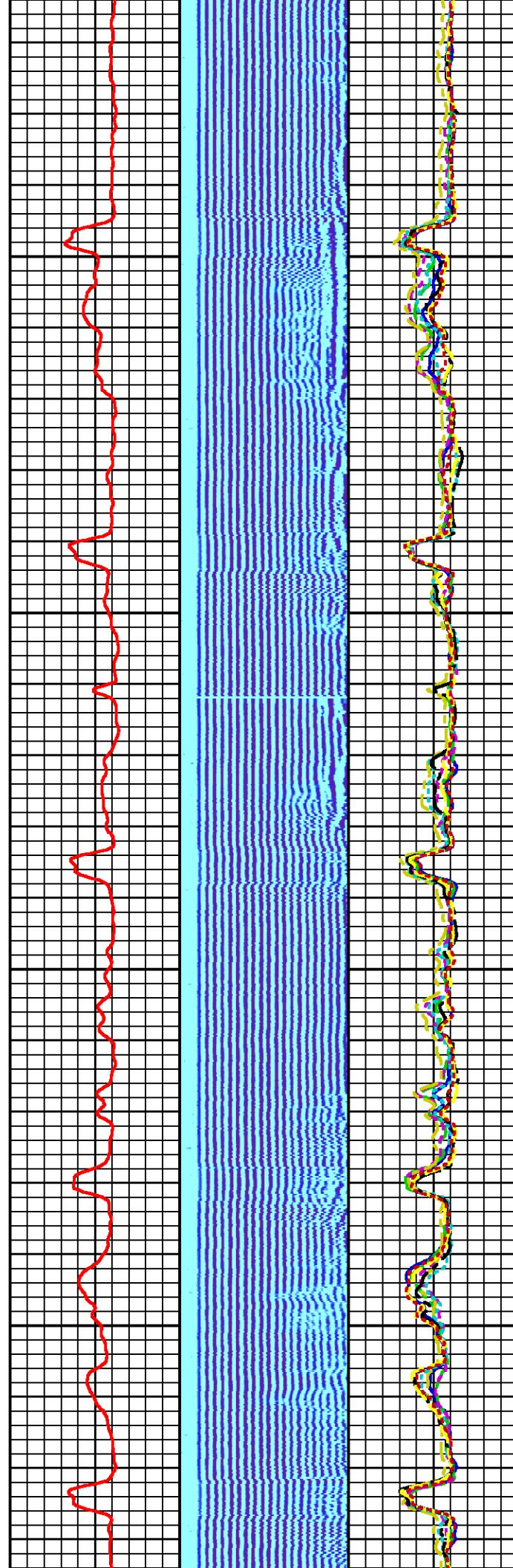
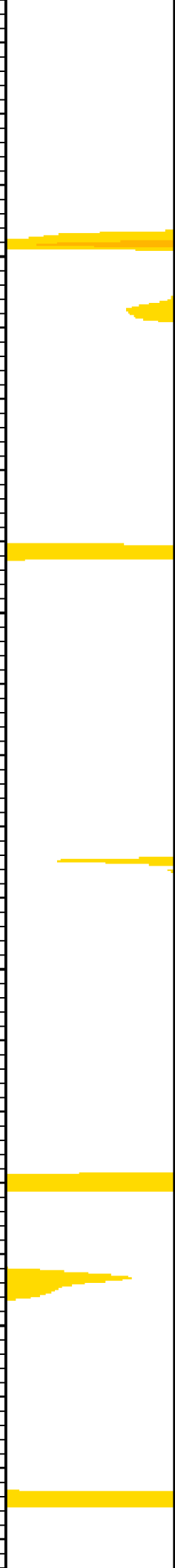


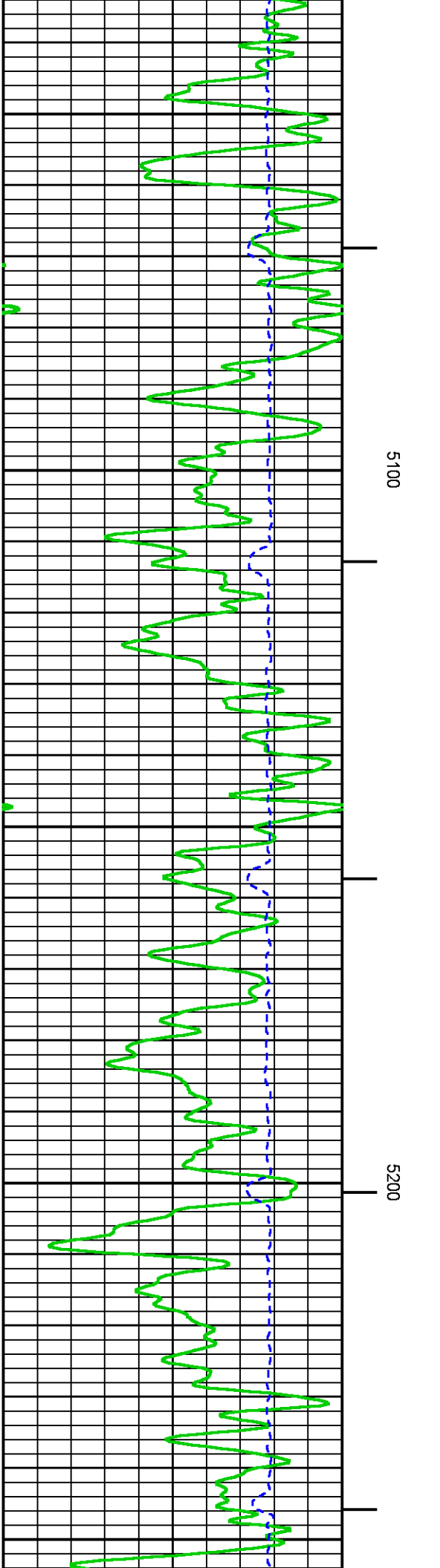
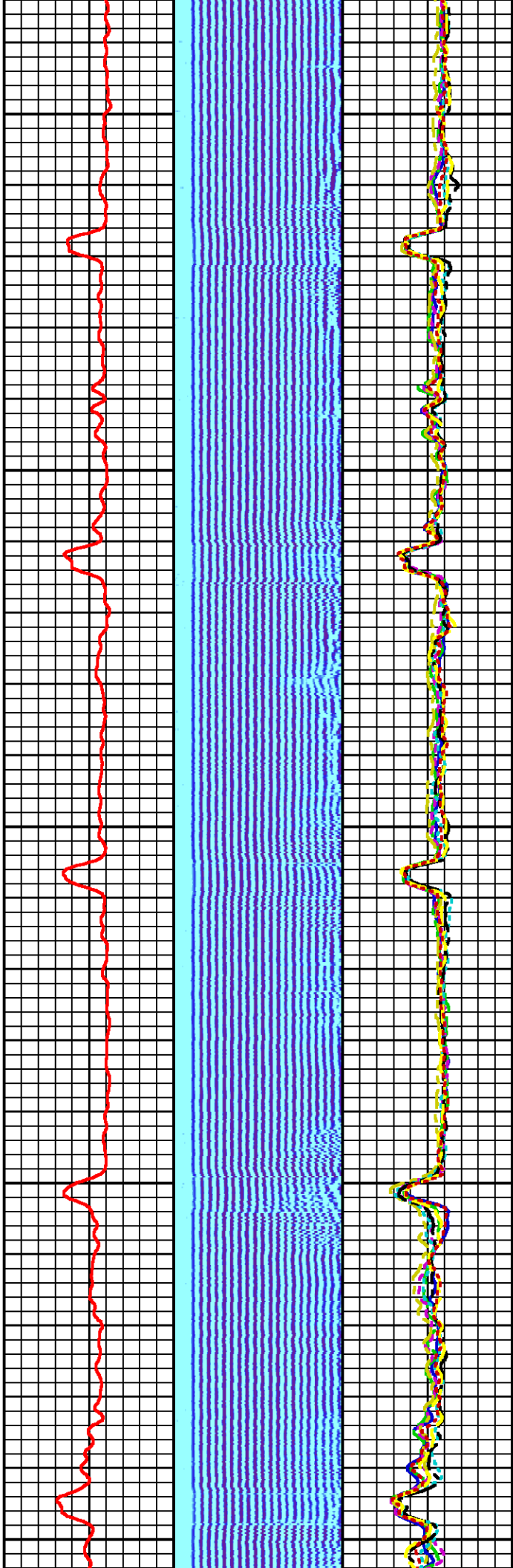
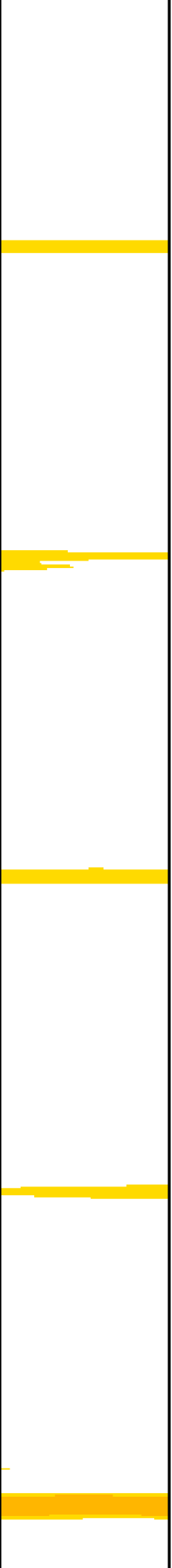
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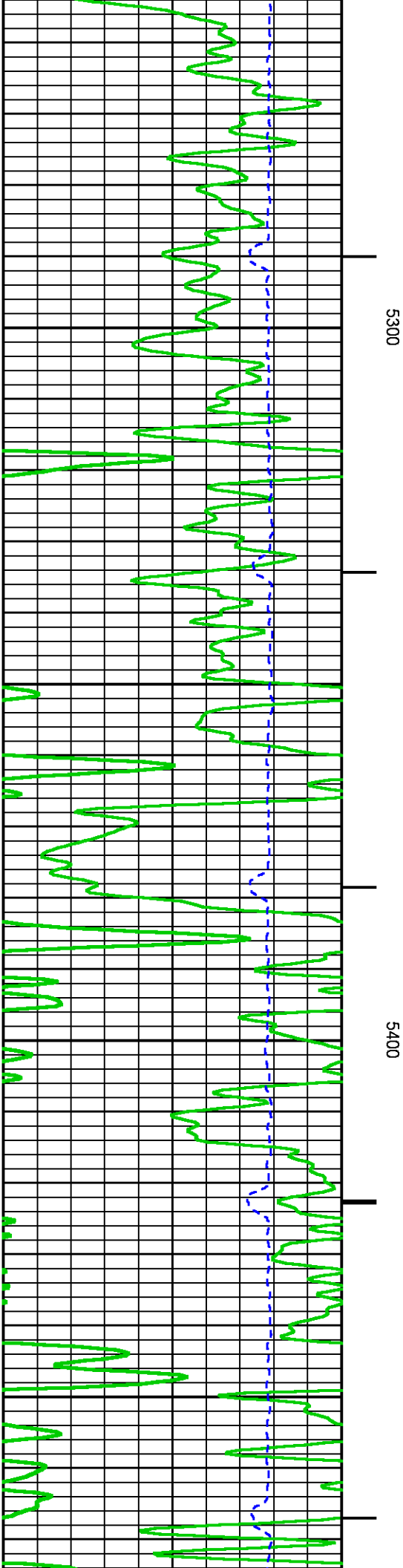
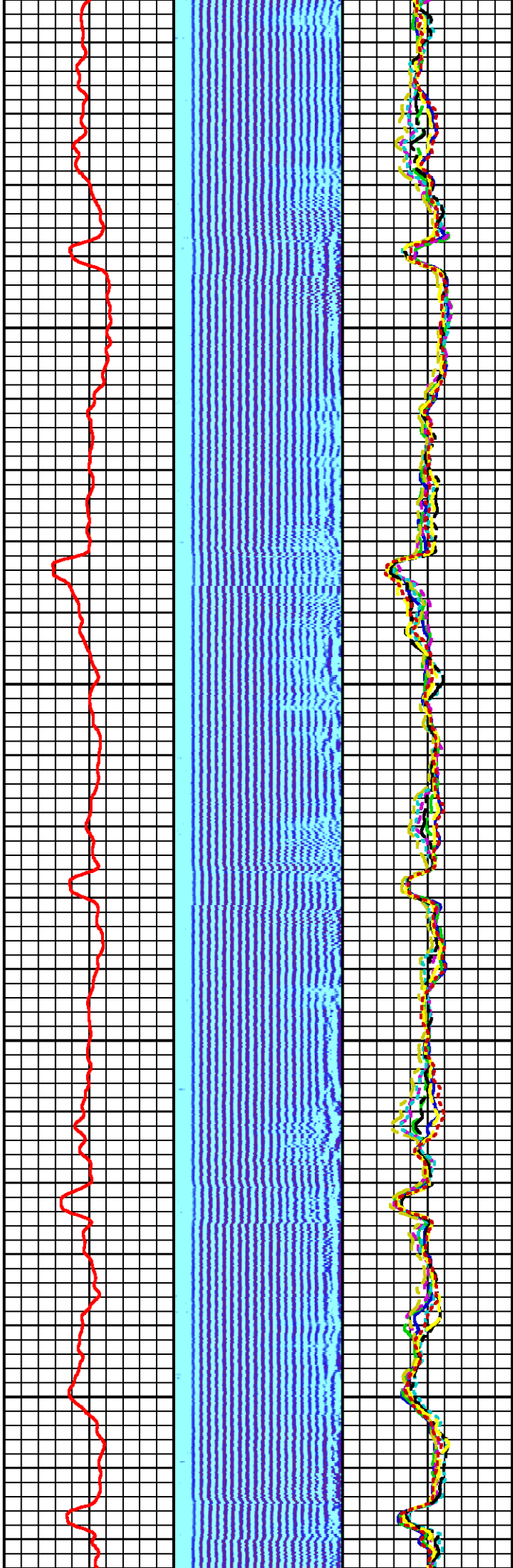
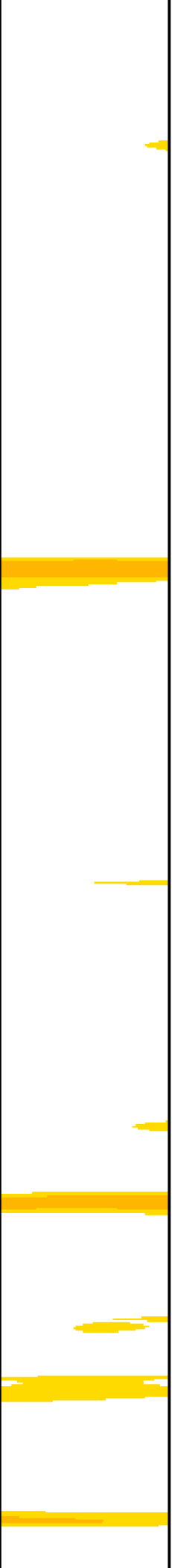
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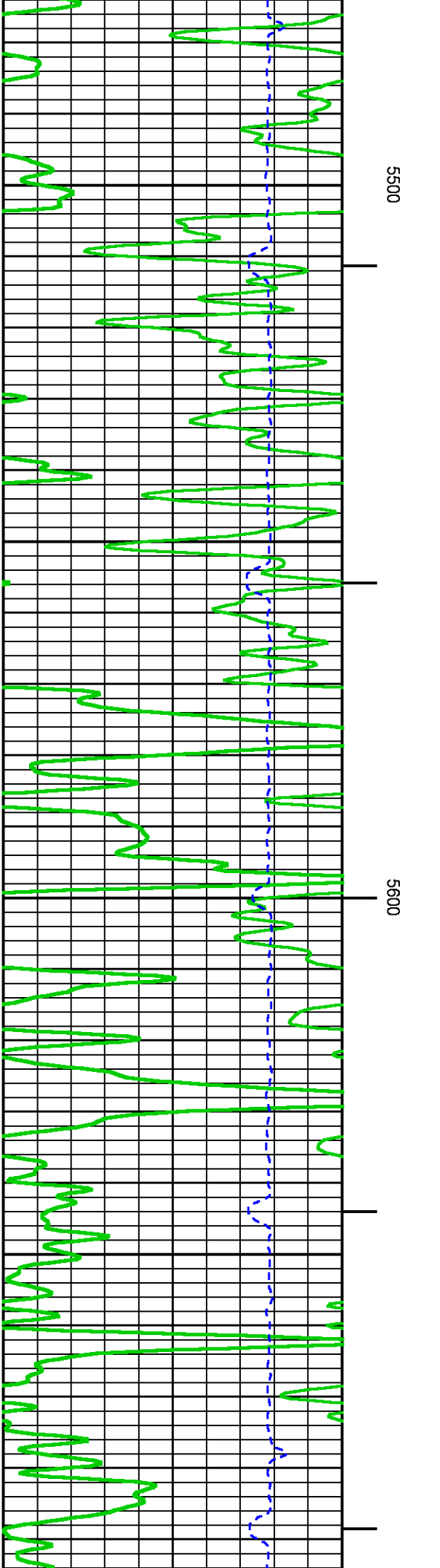
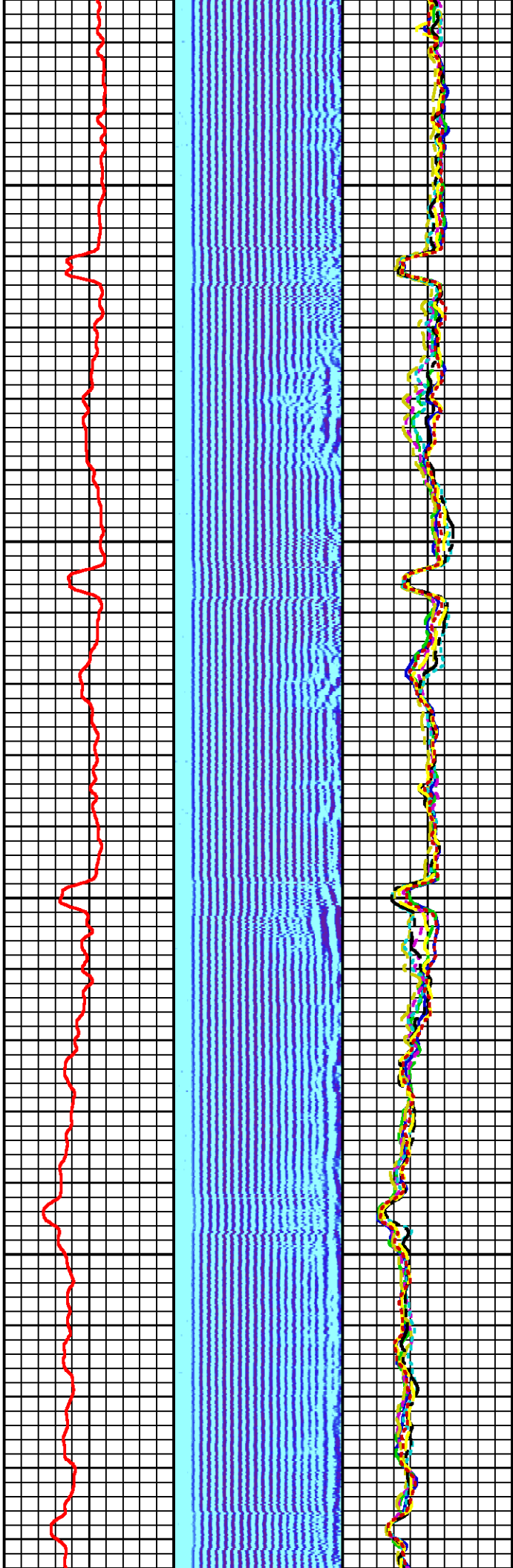
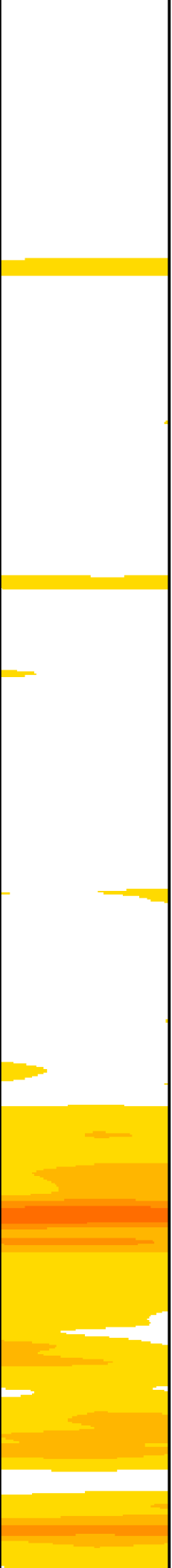




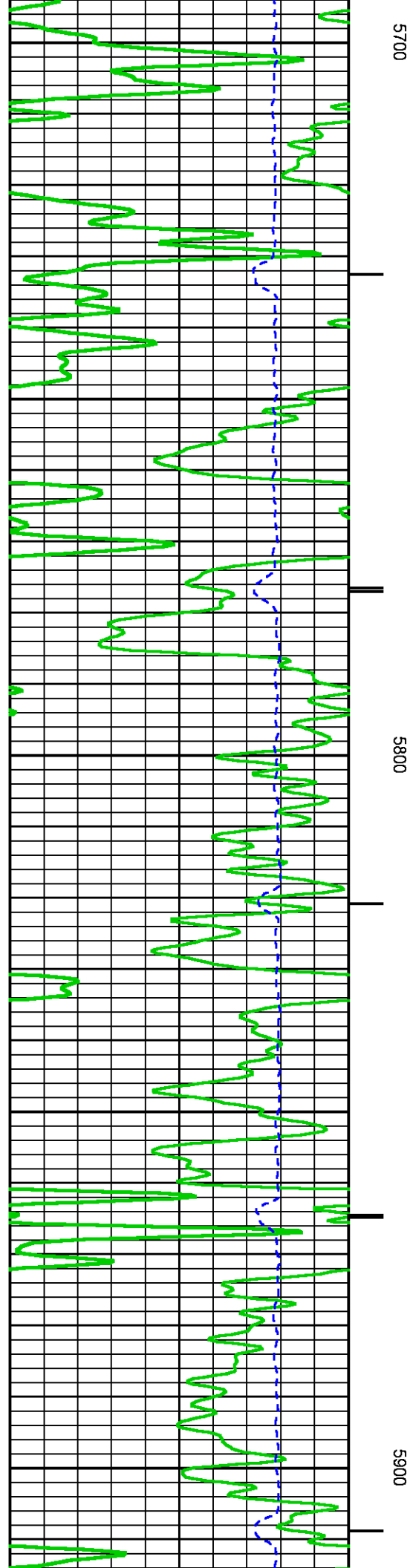
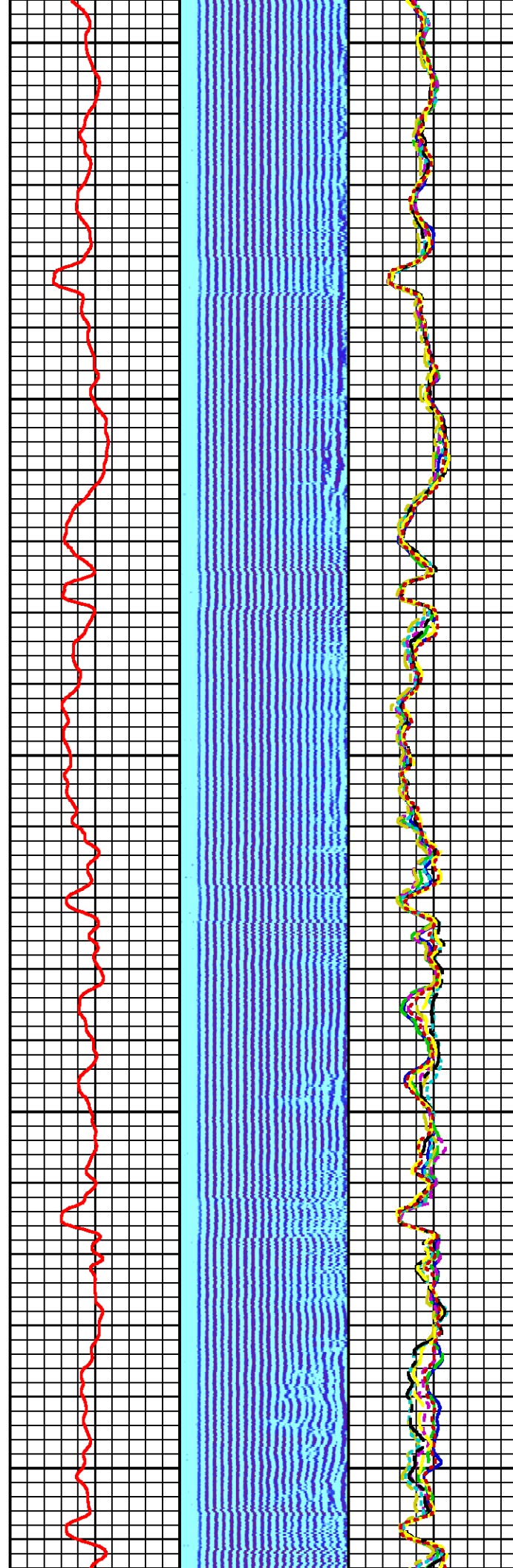


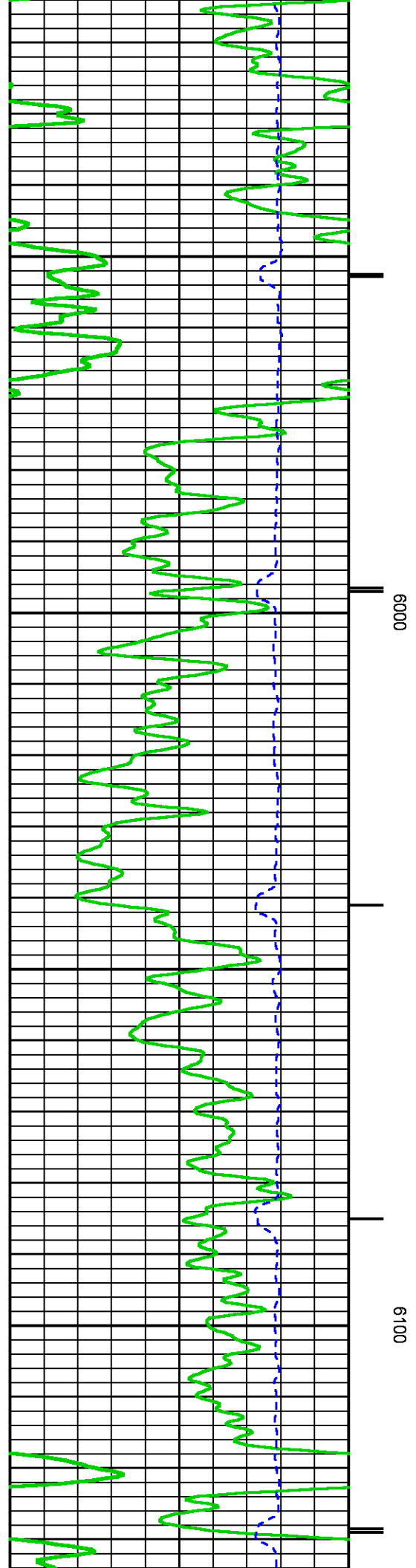
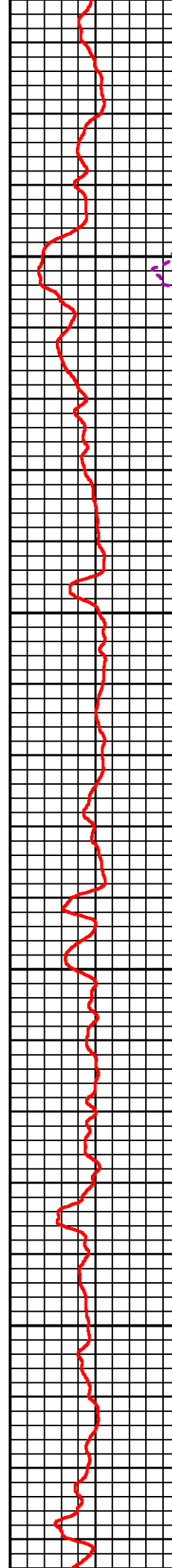
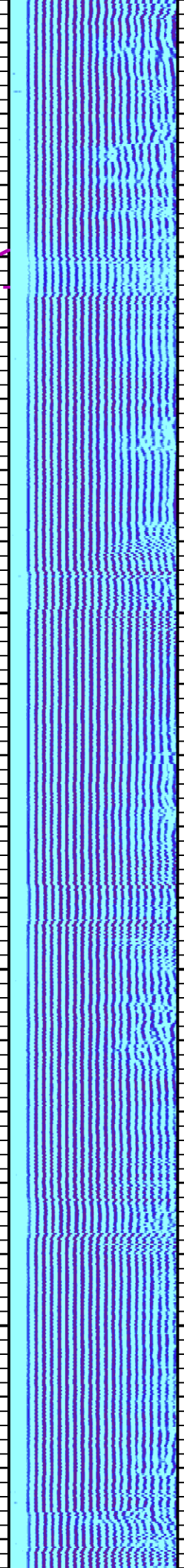
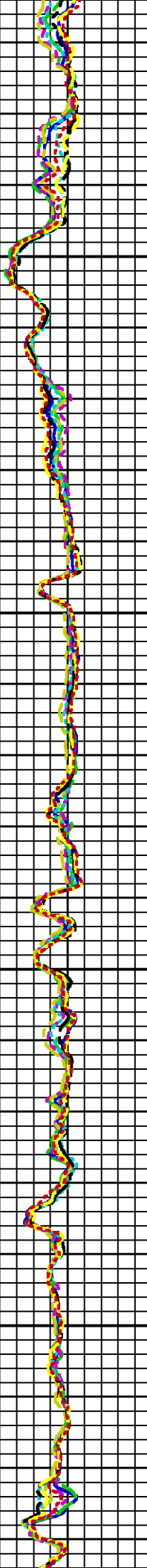
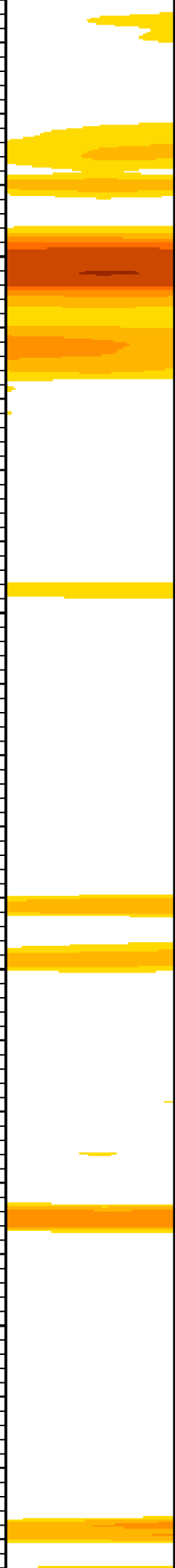


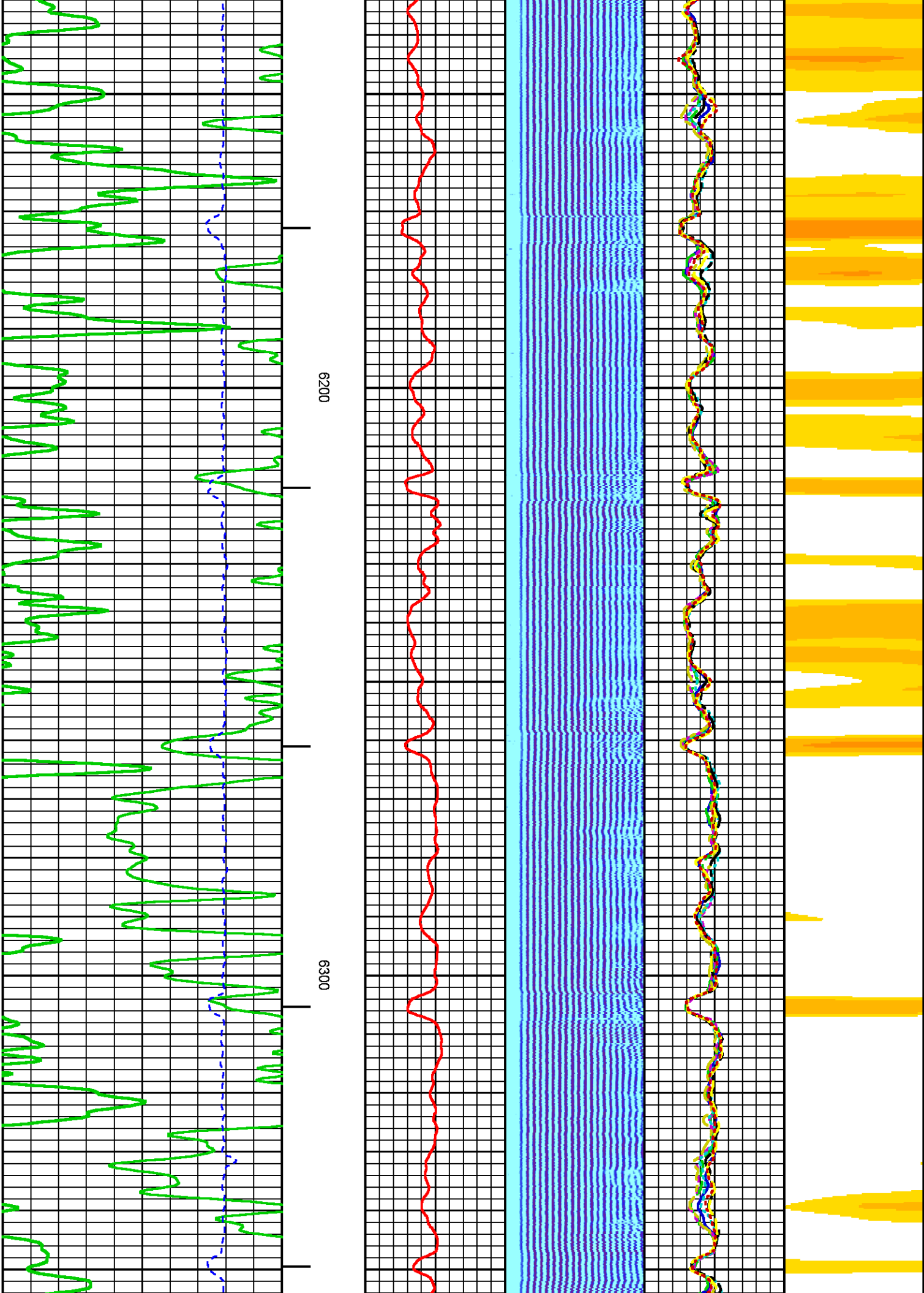


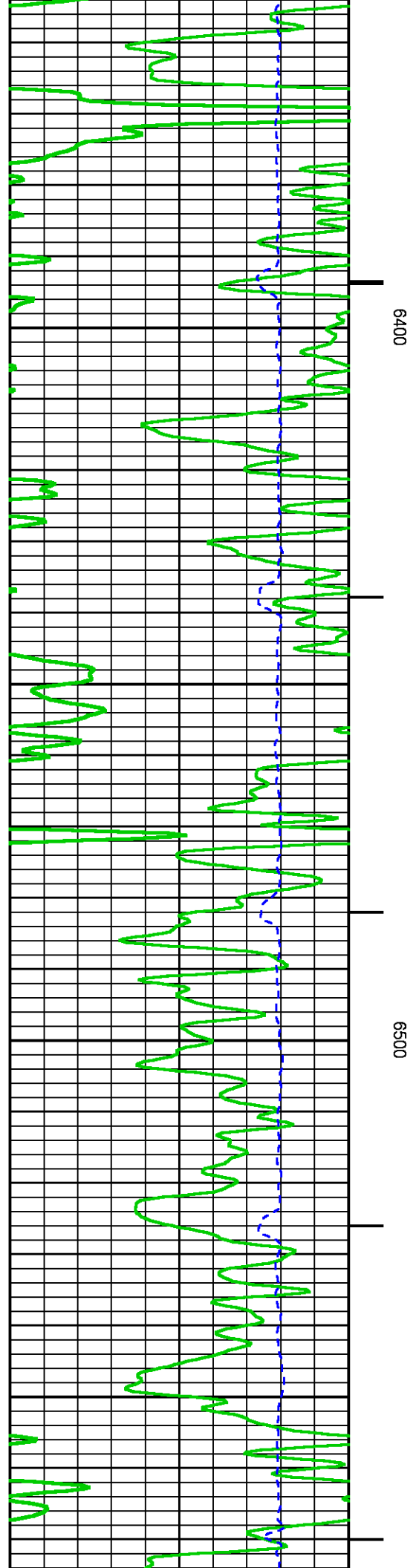
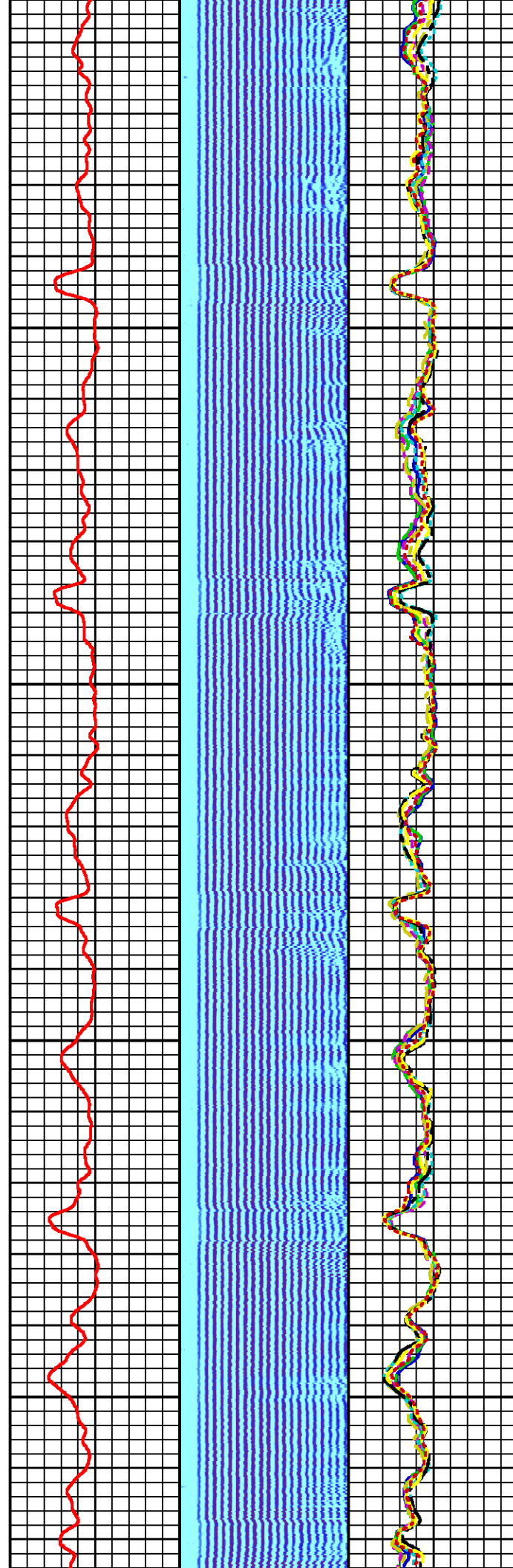




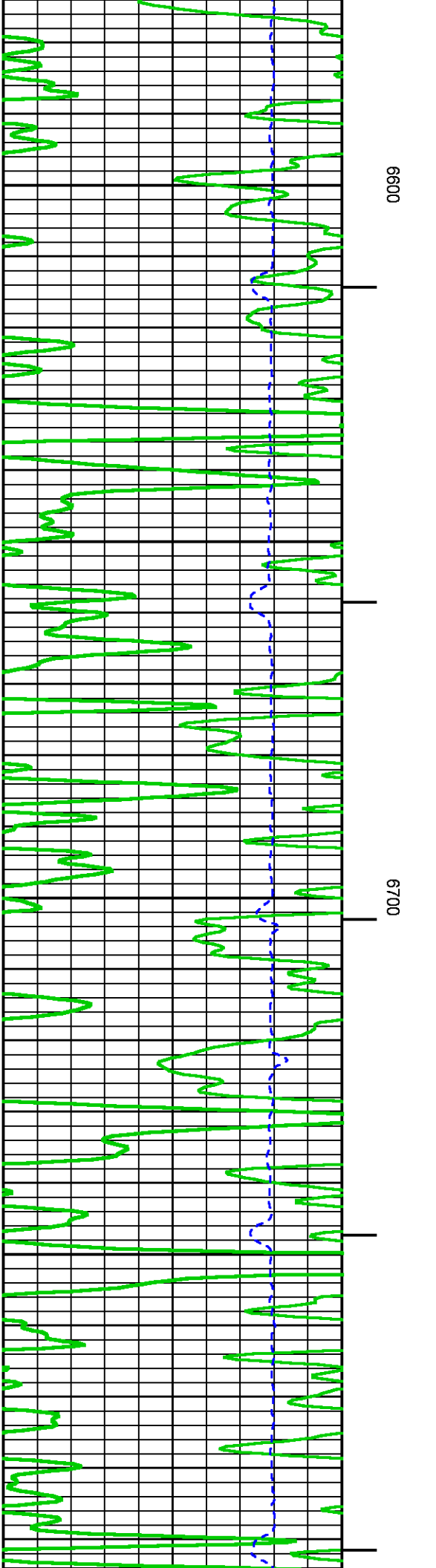
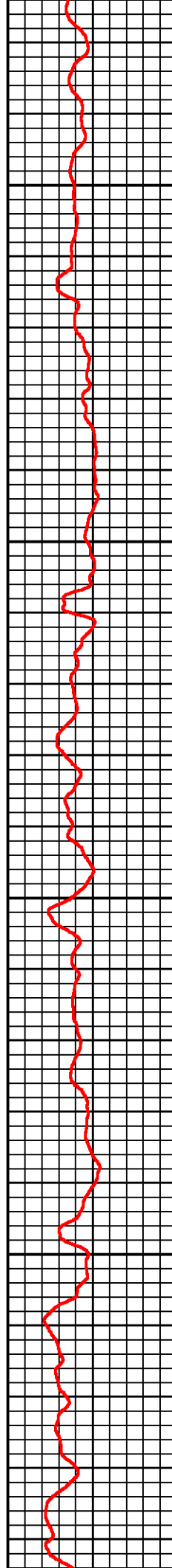
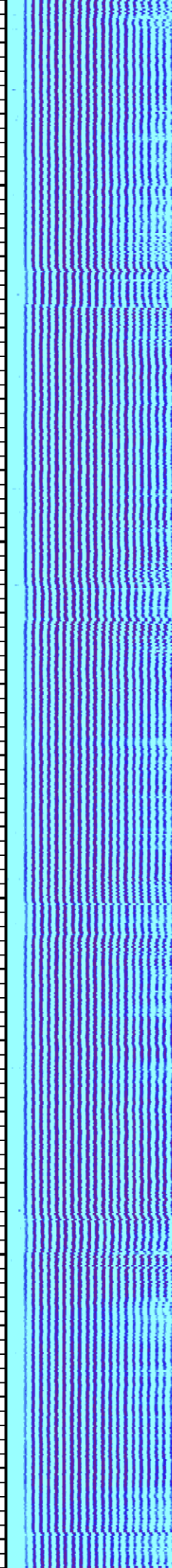
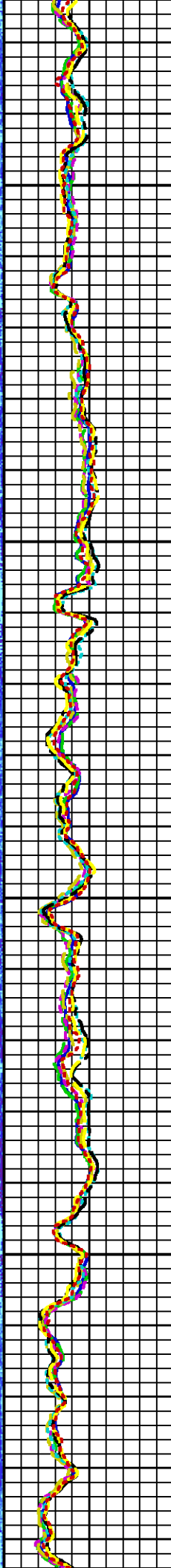
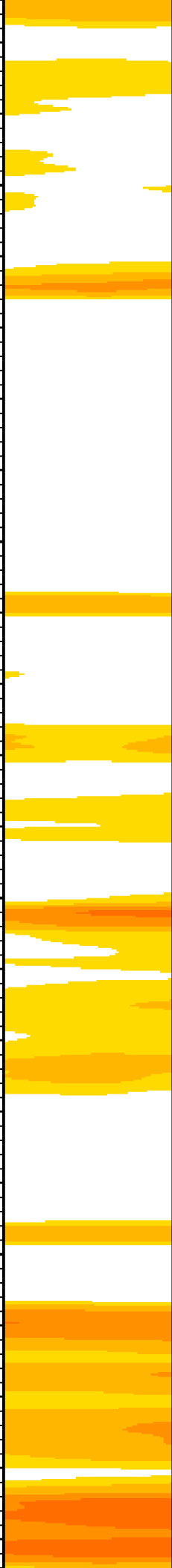


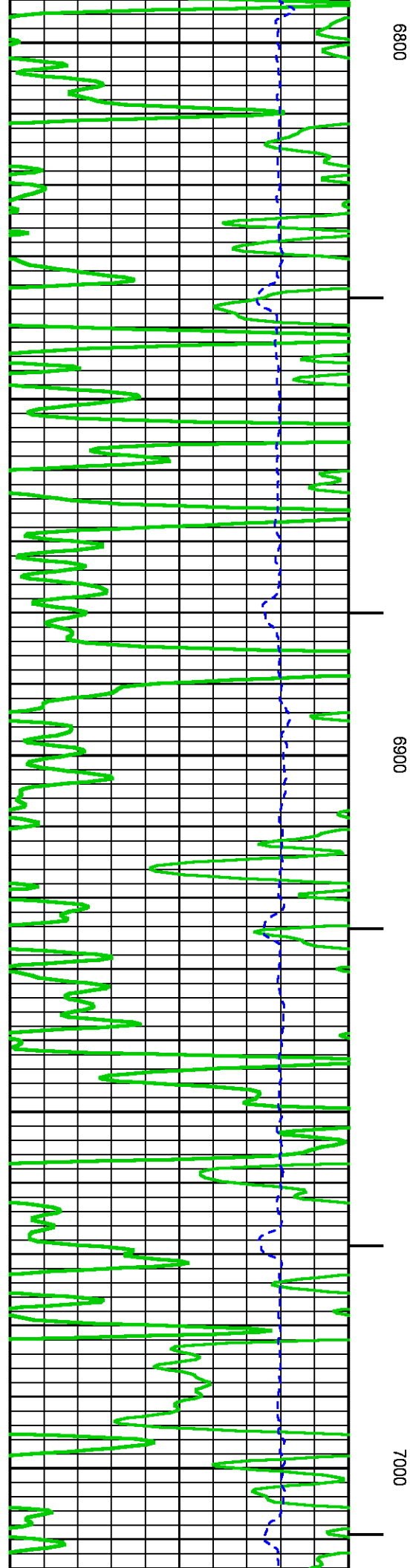
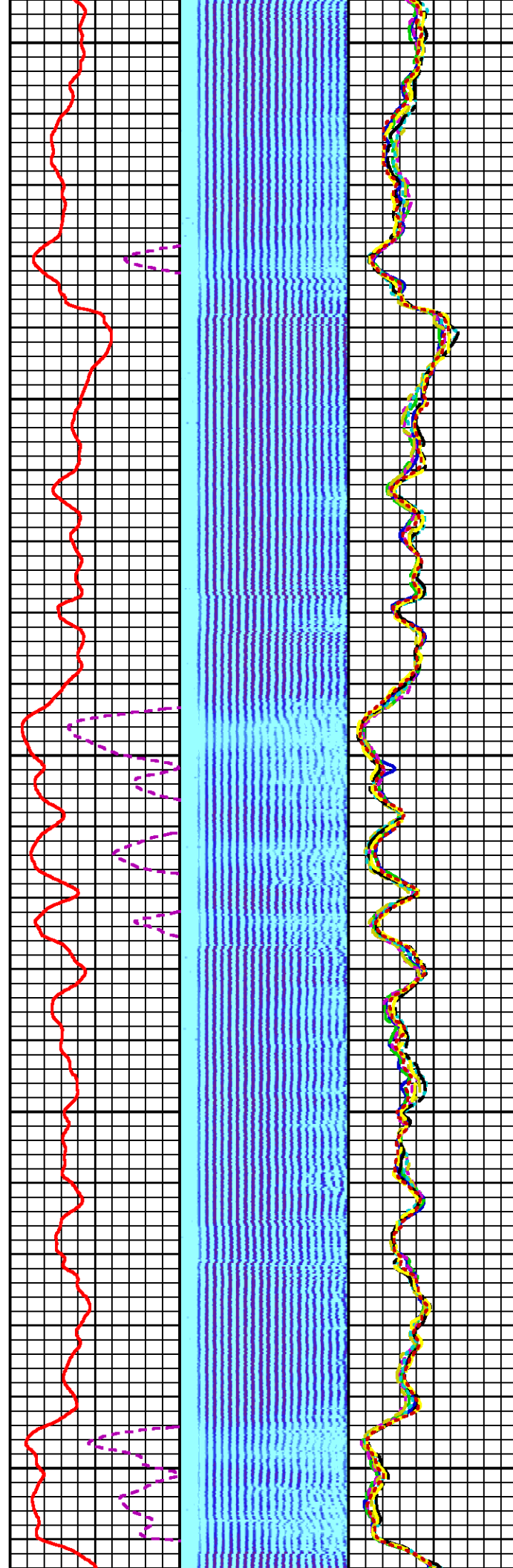
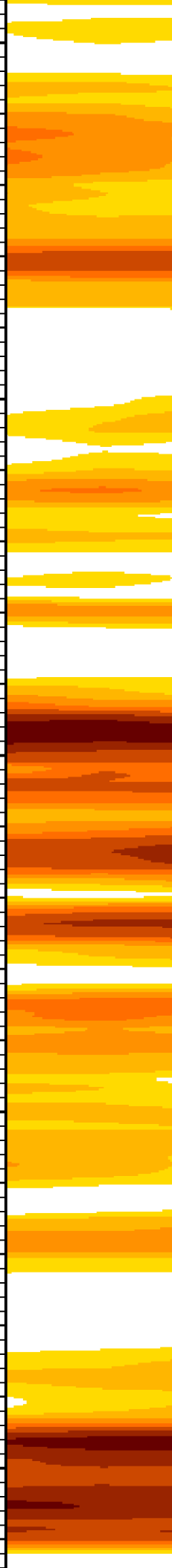


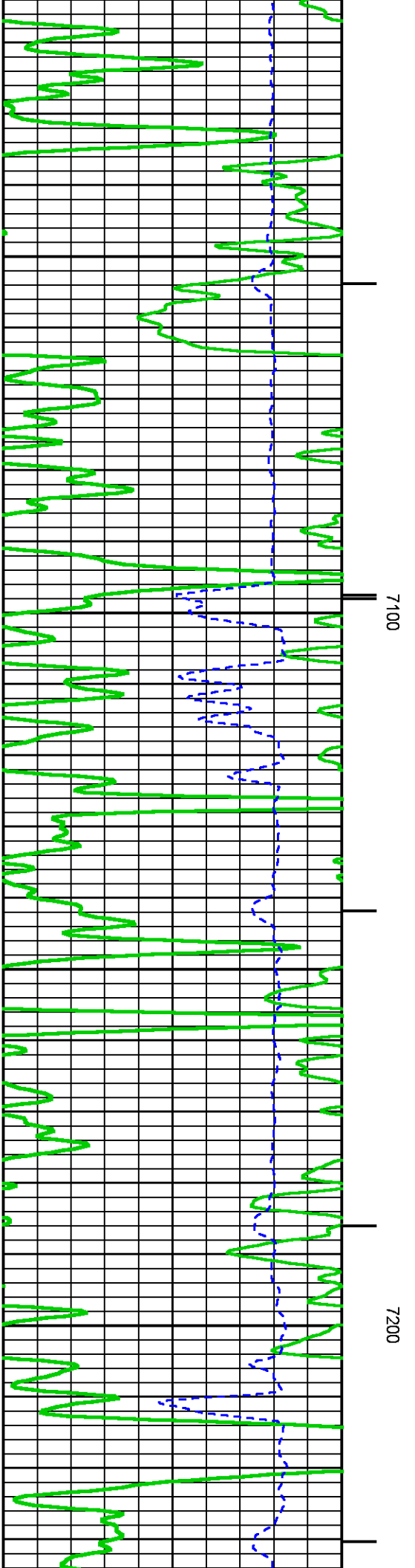
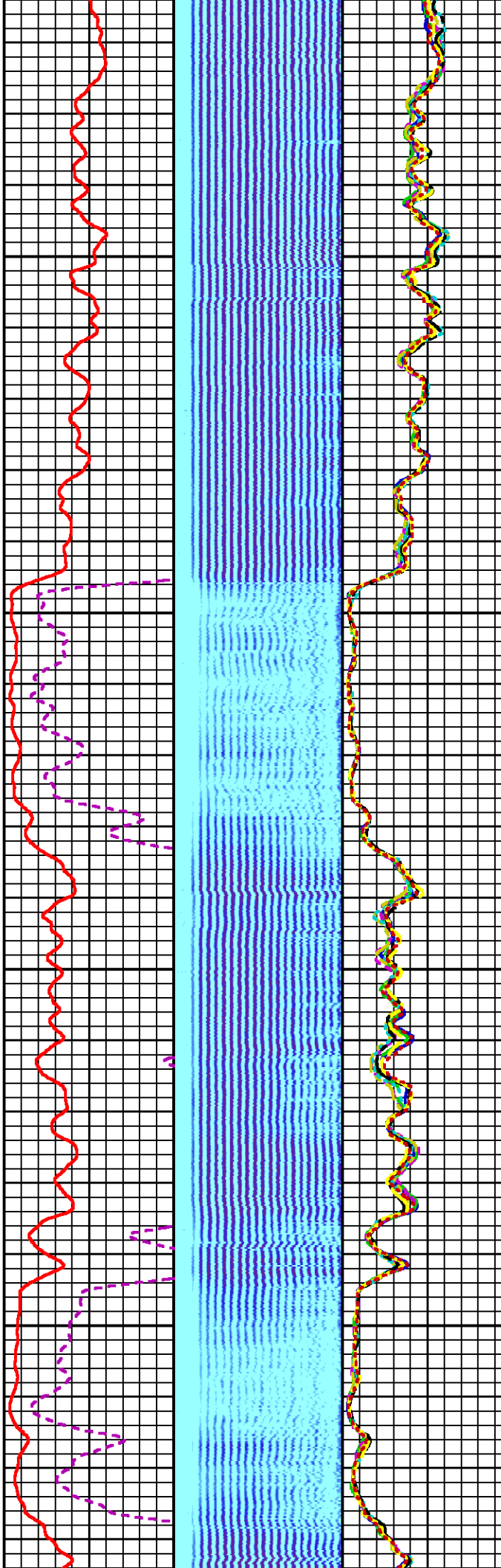
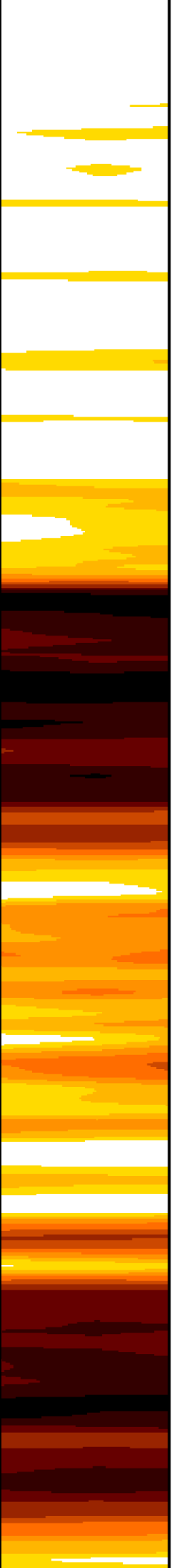


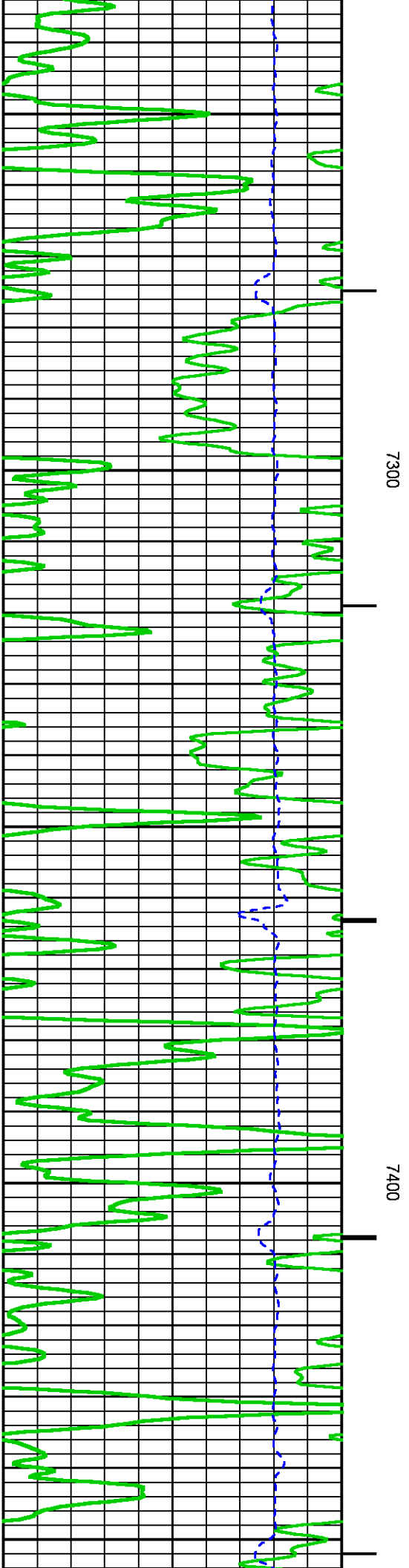
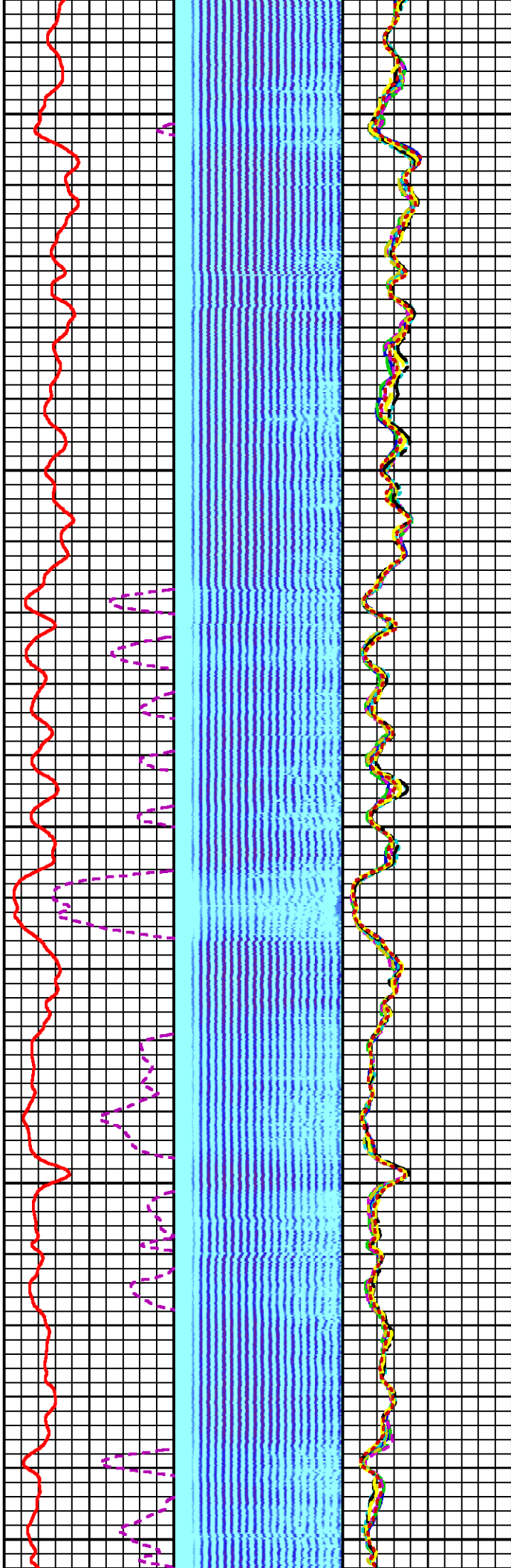




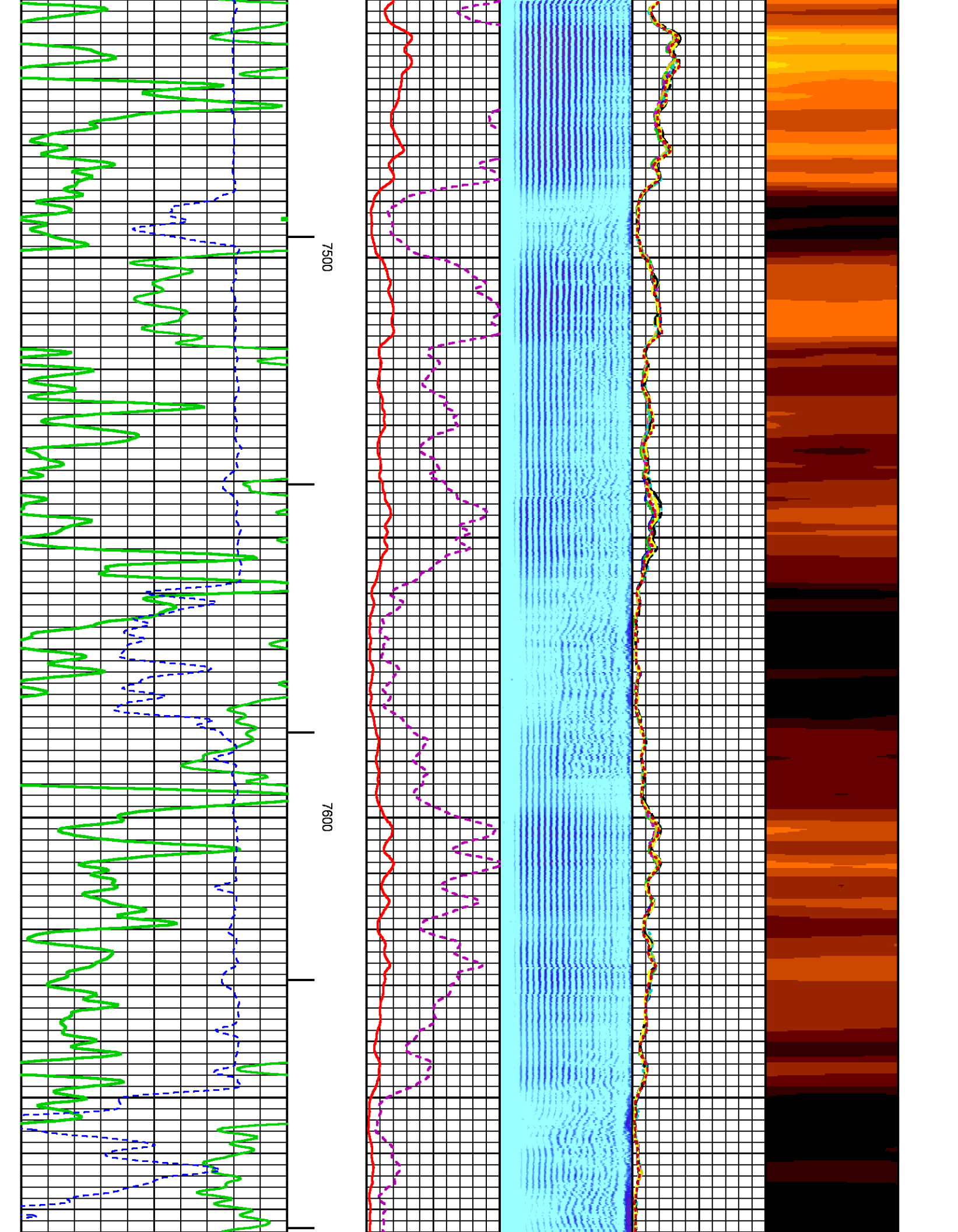


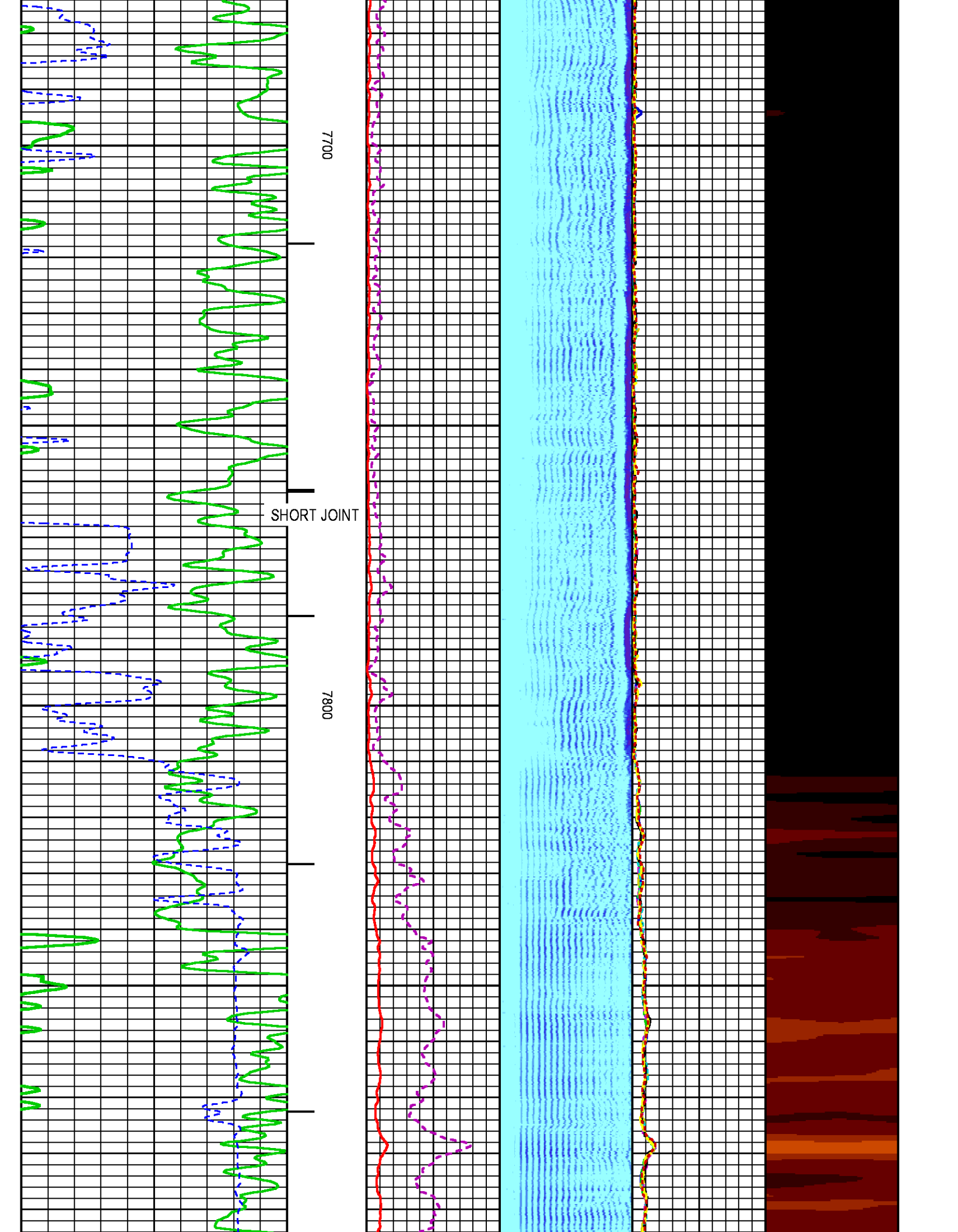


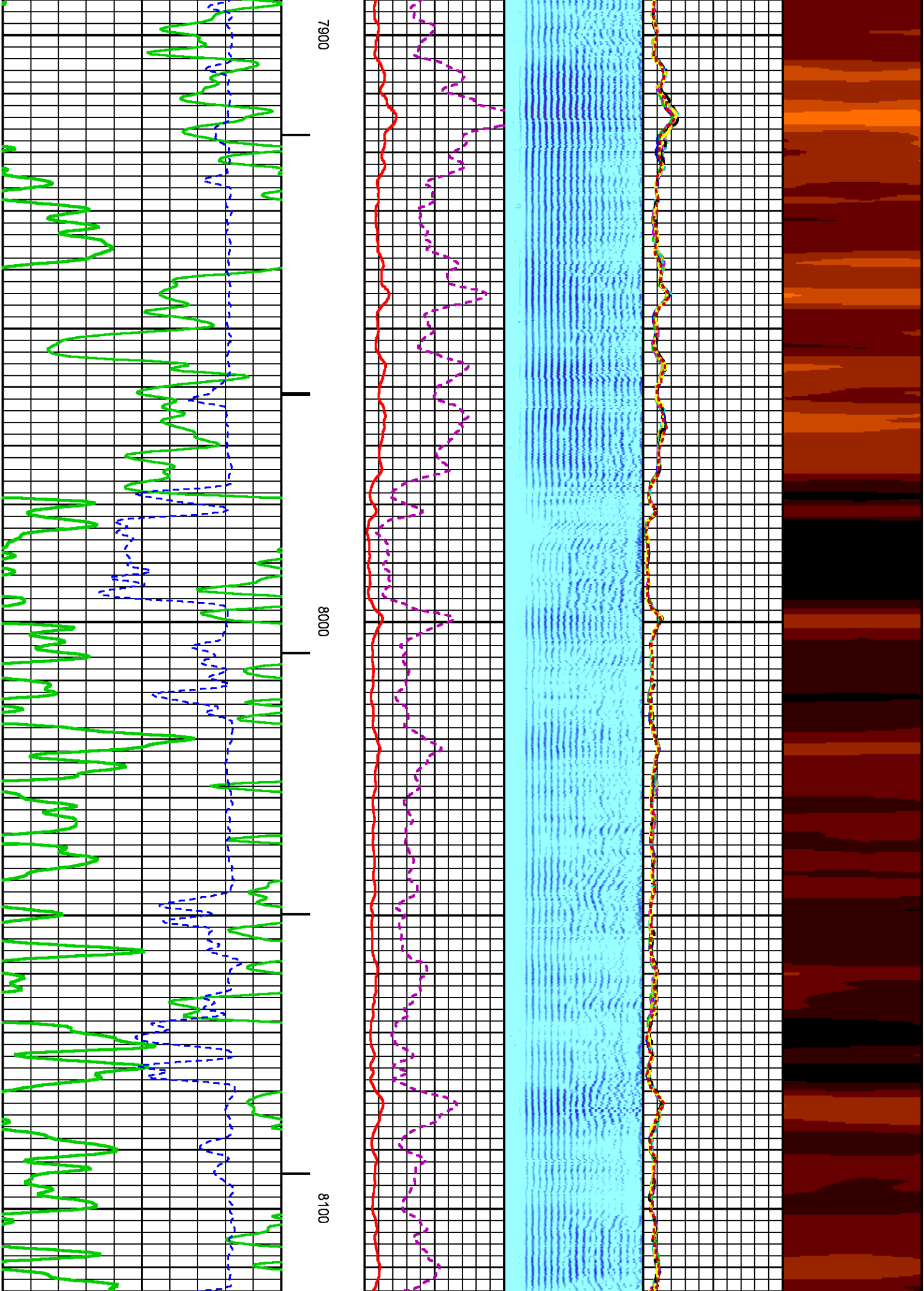


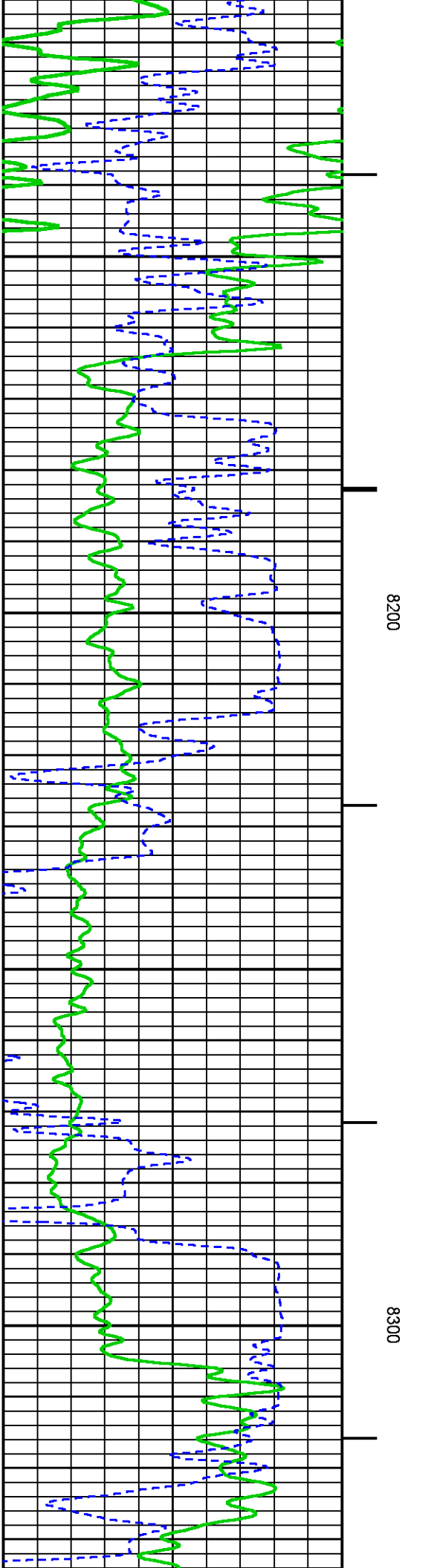
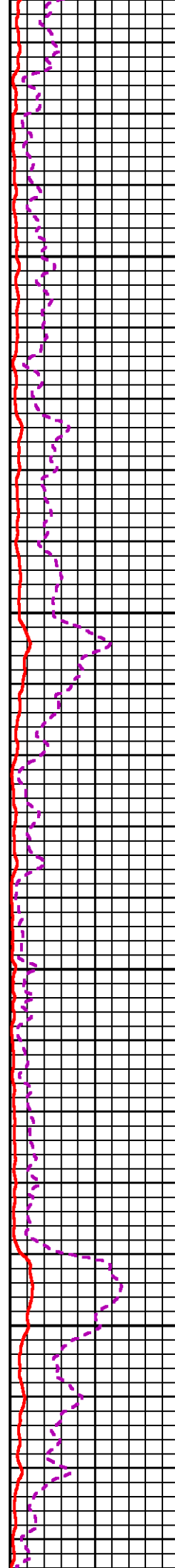
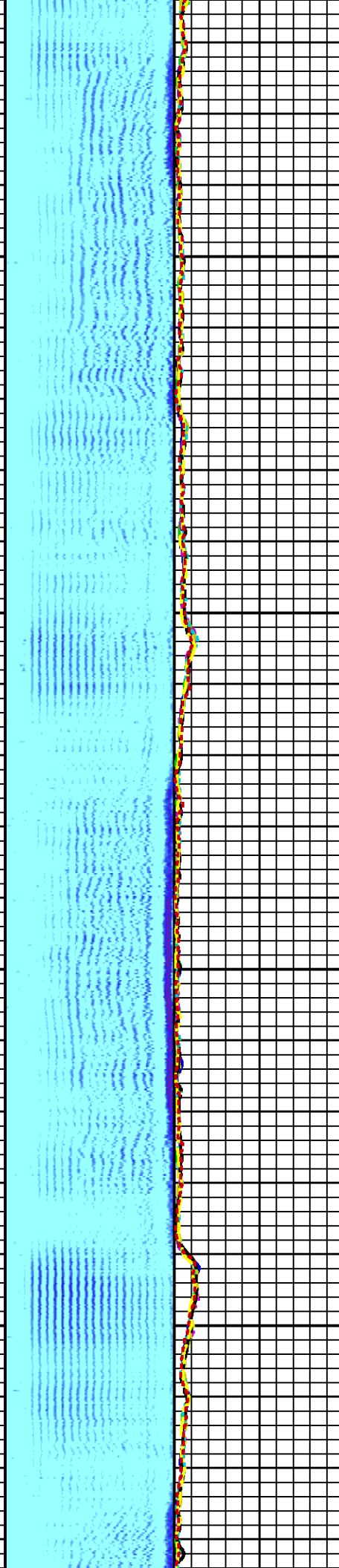
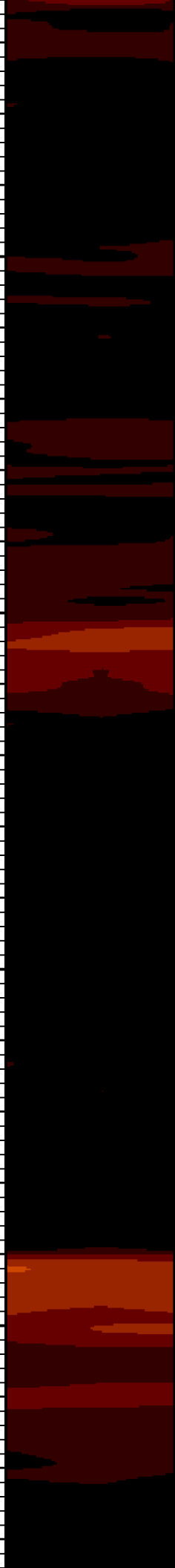








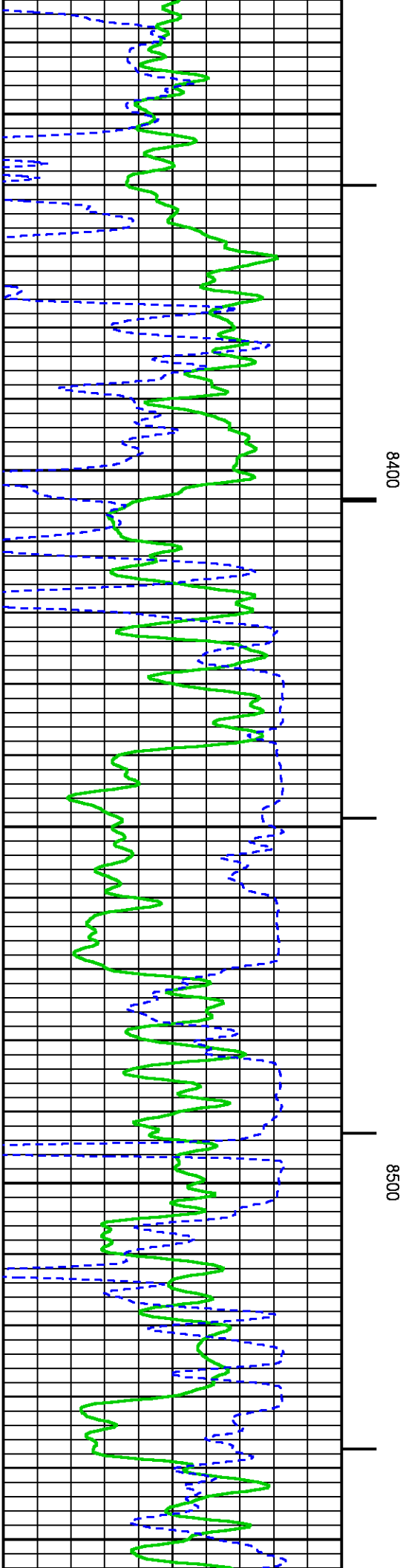
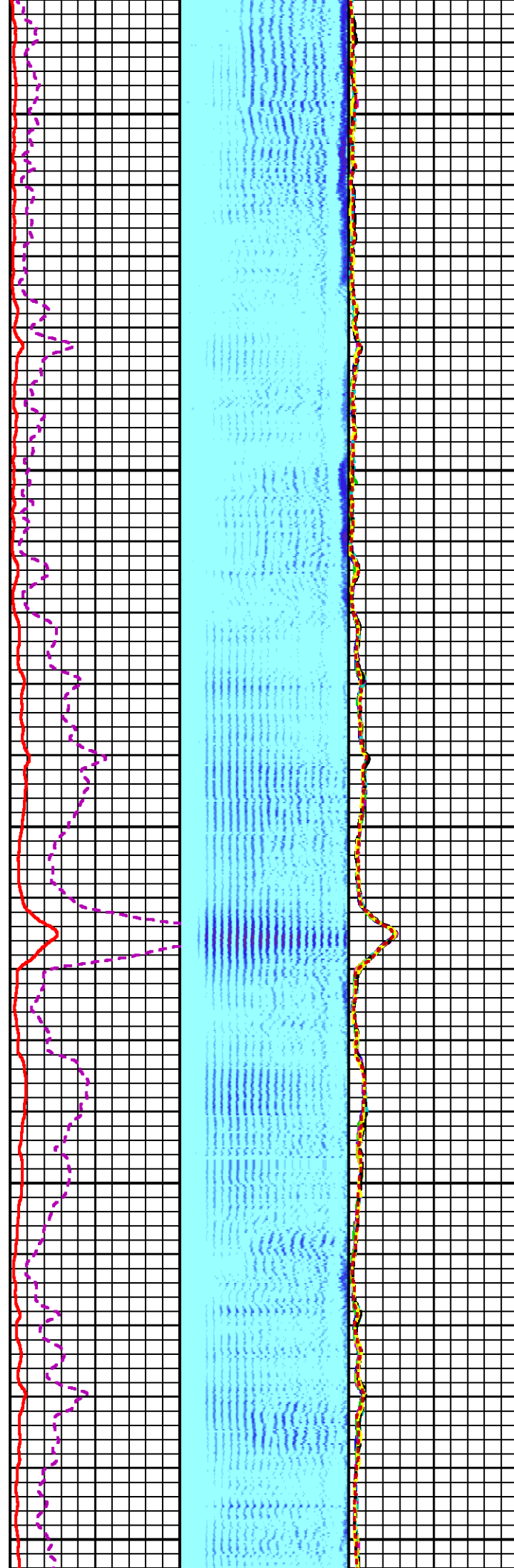
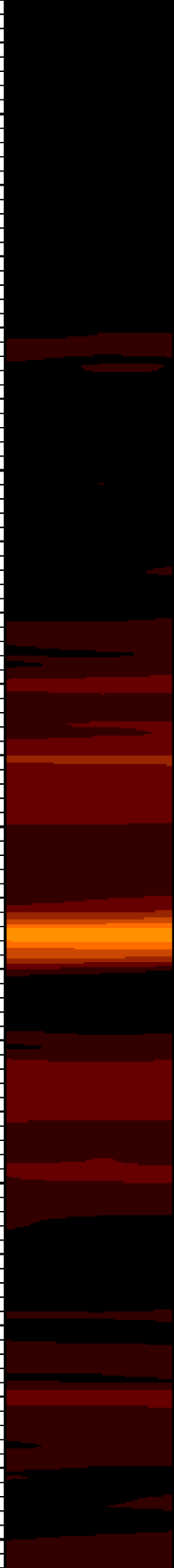


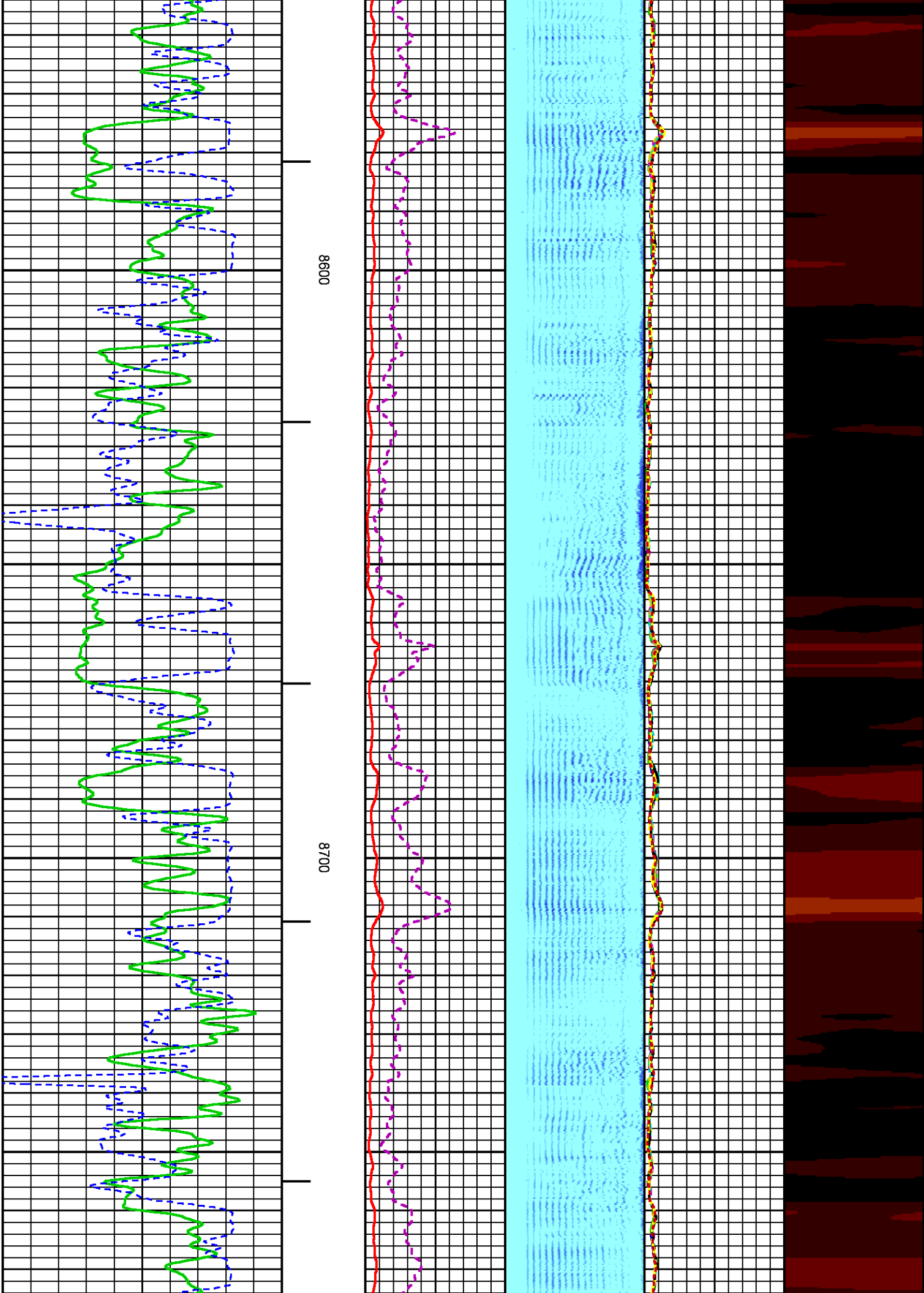


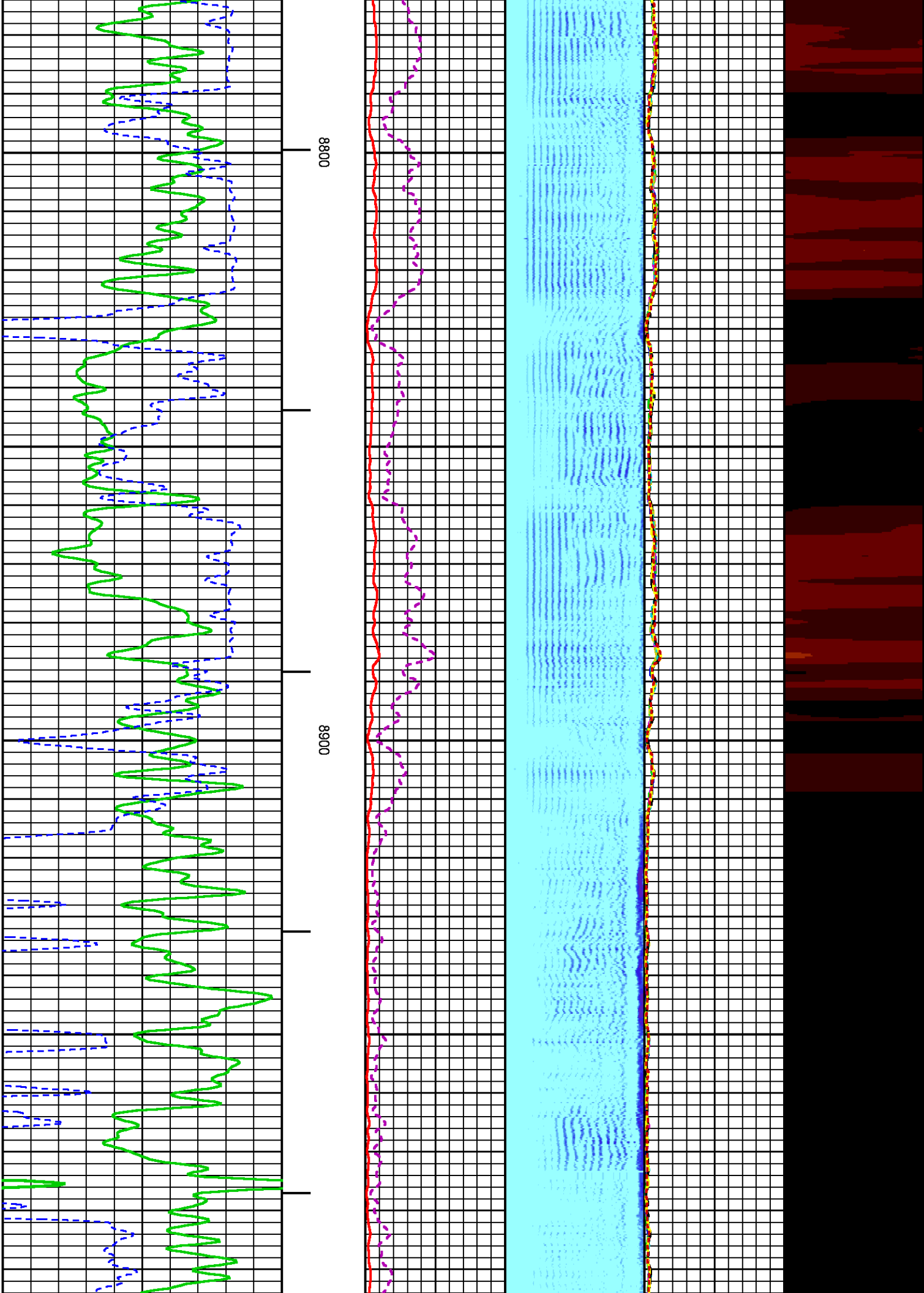
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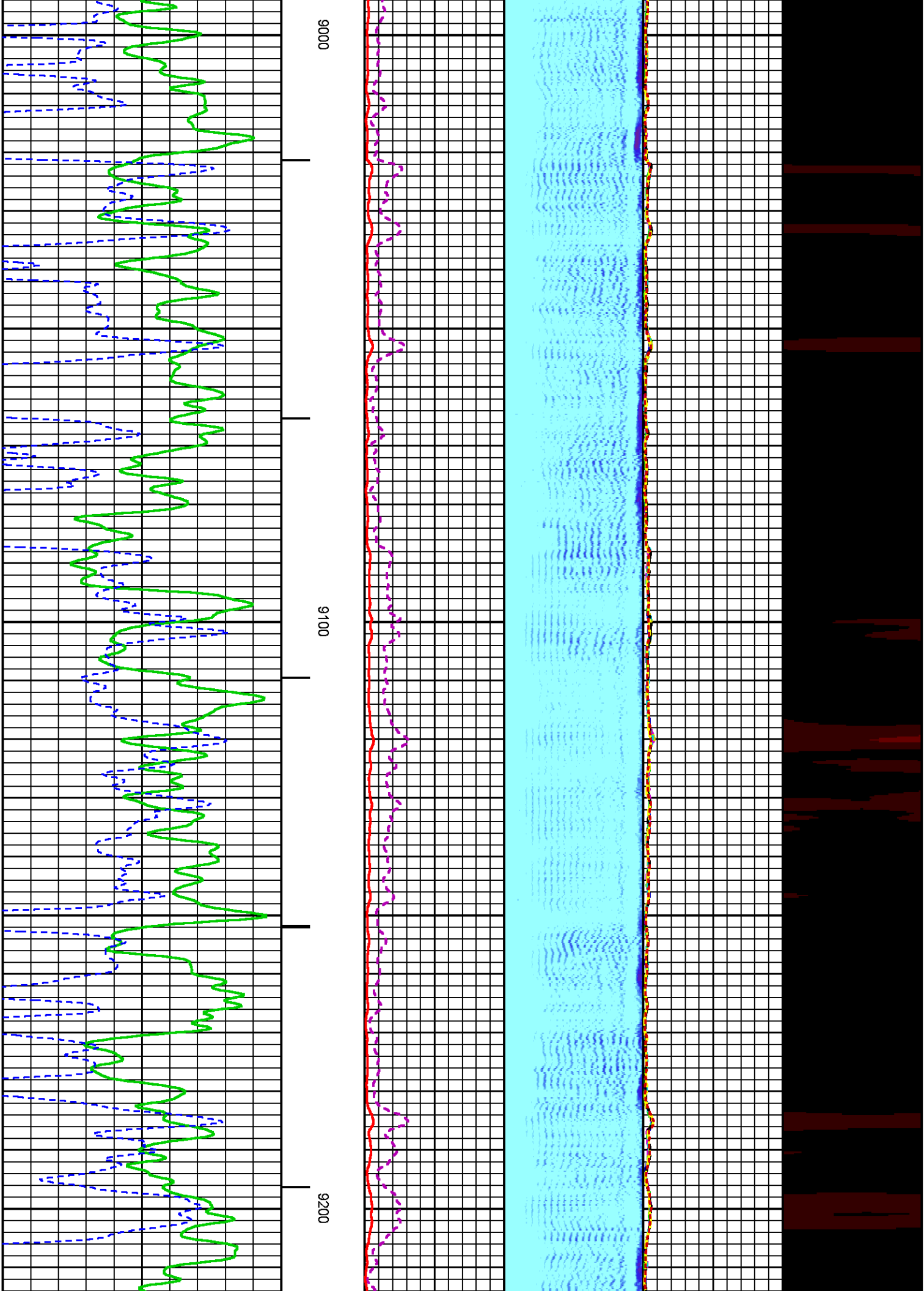
8300



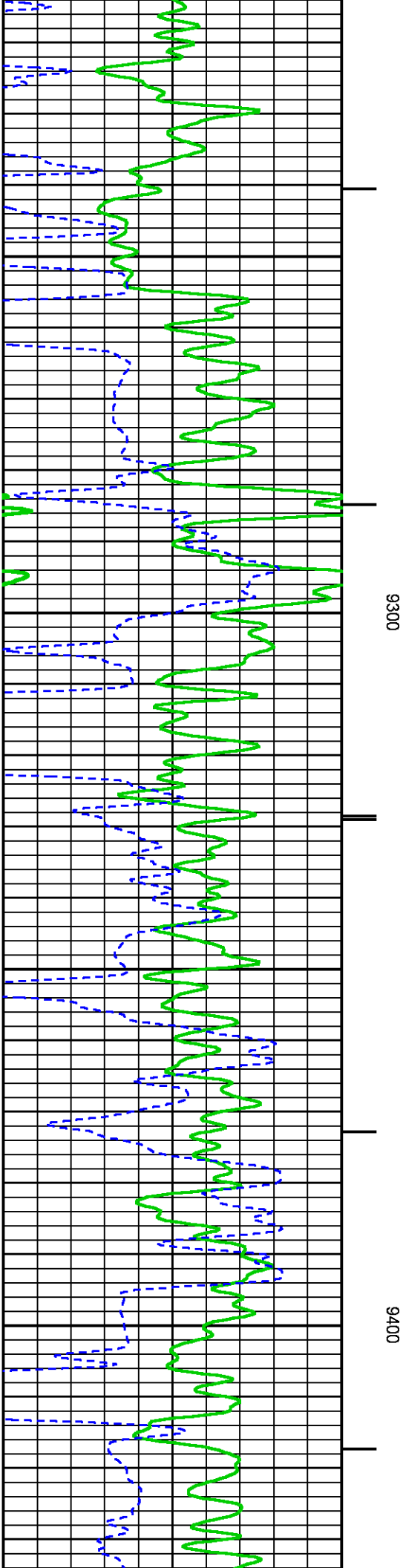
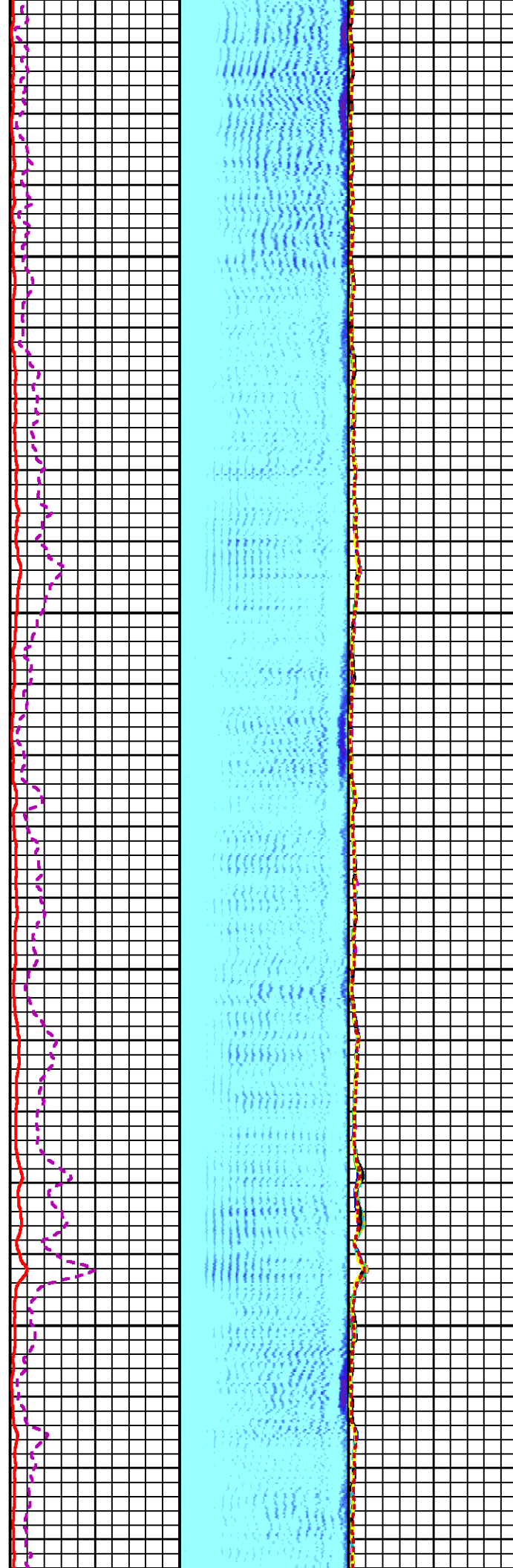


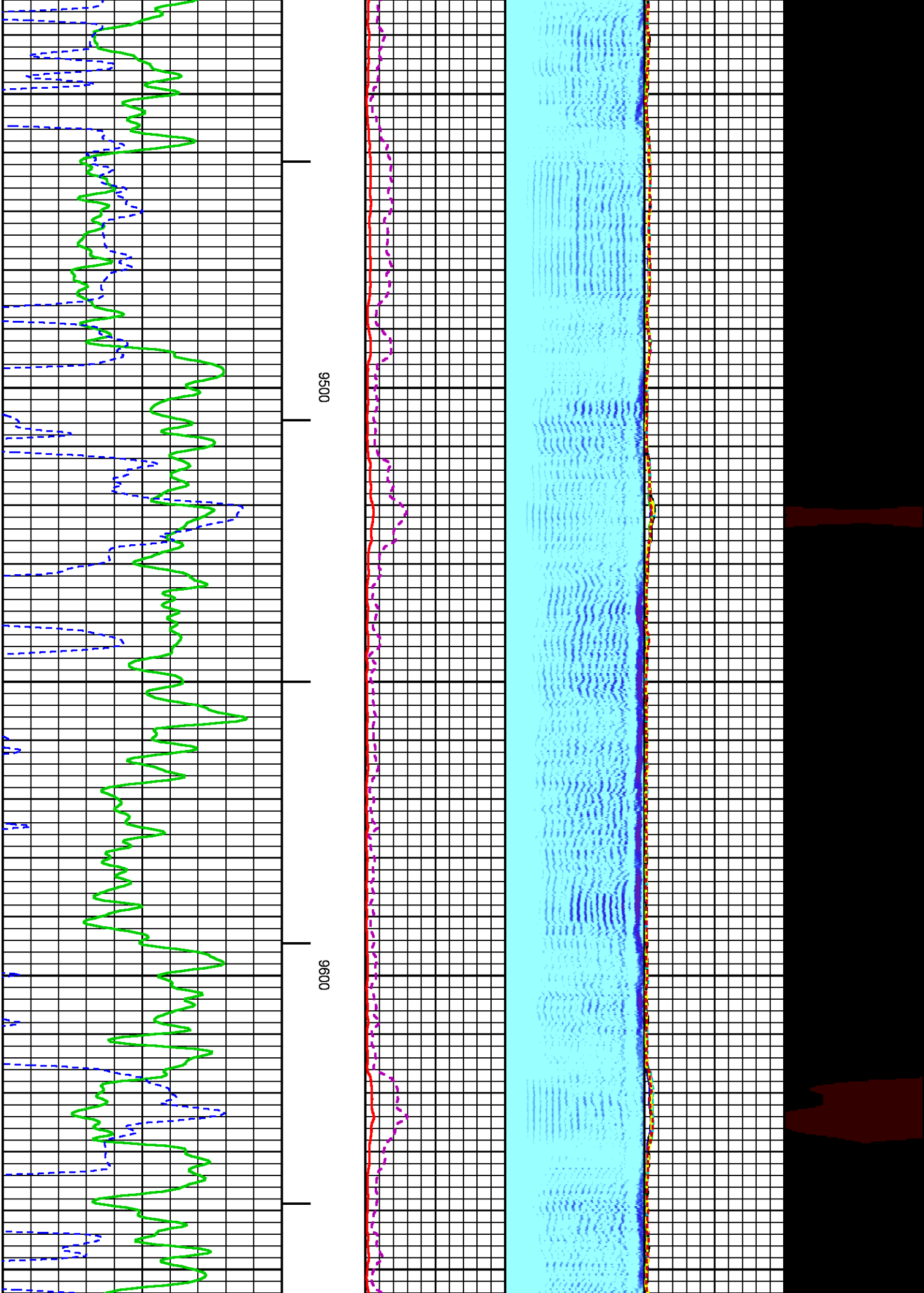


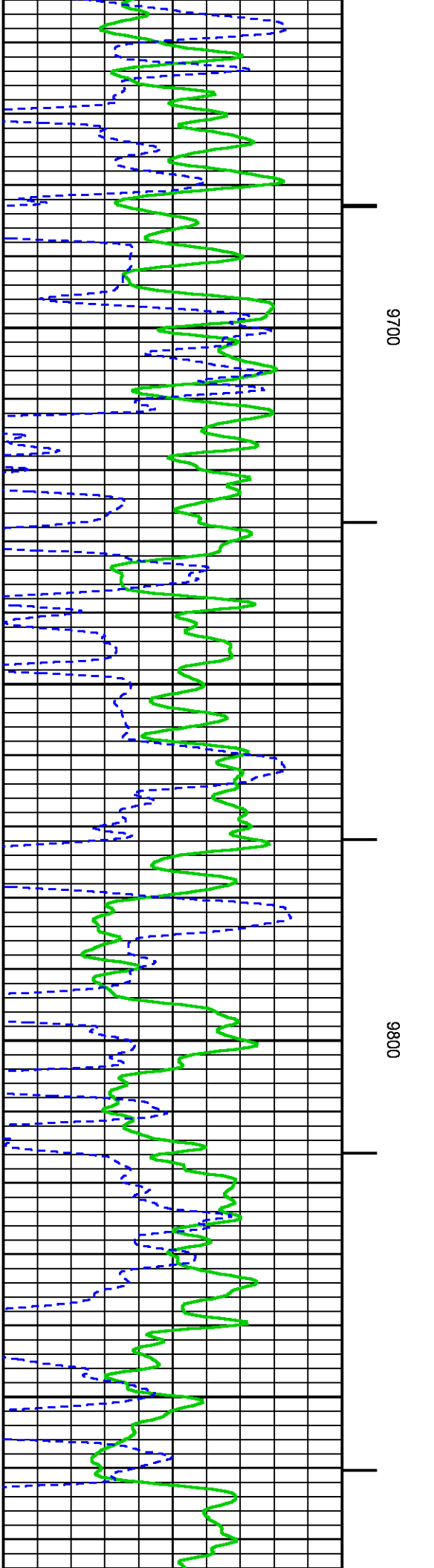
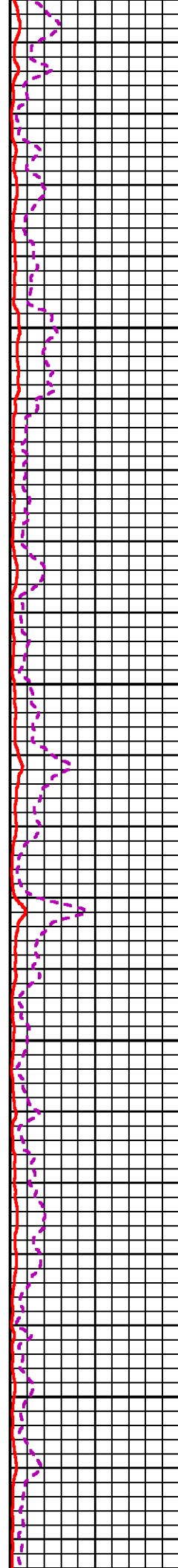
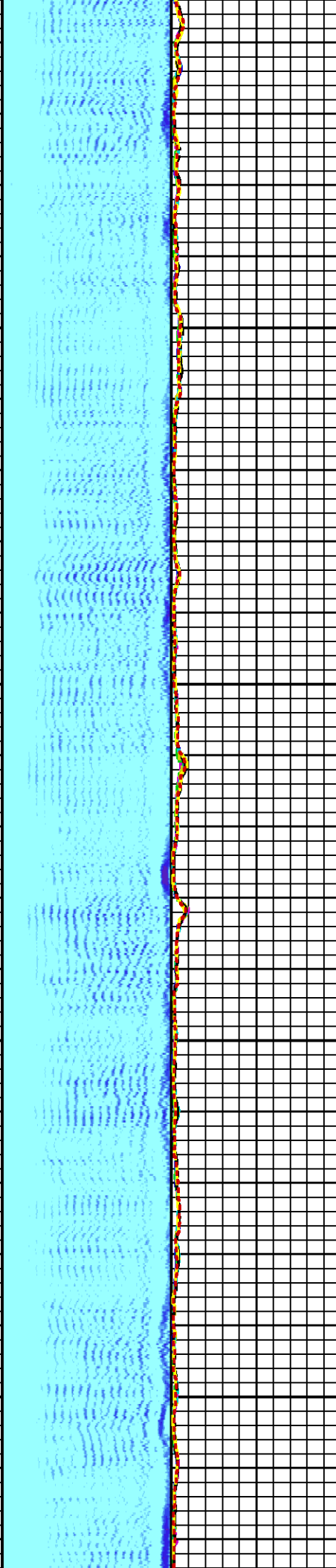
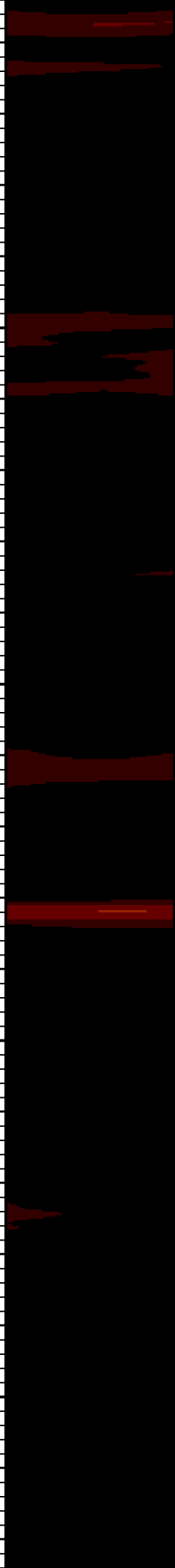


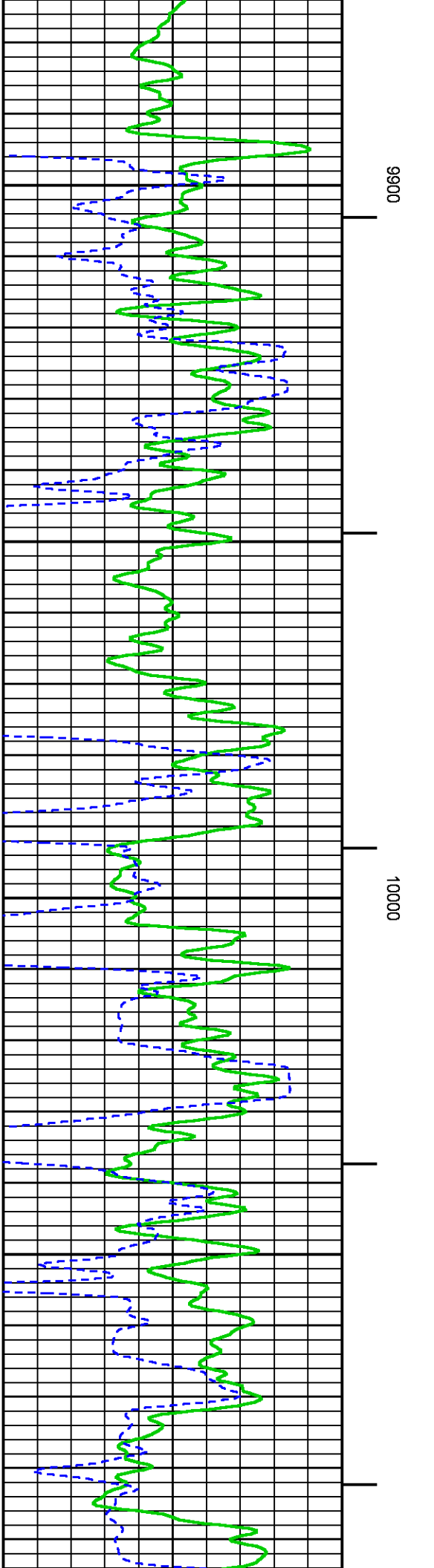
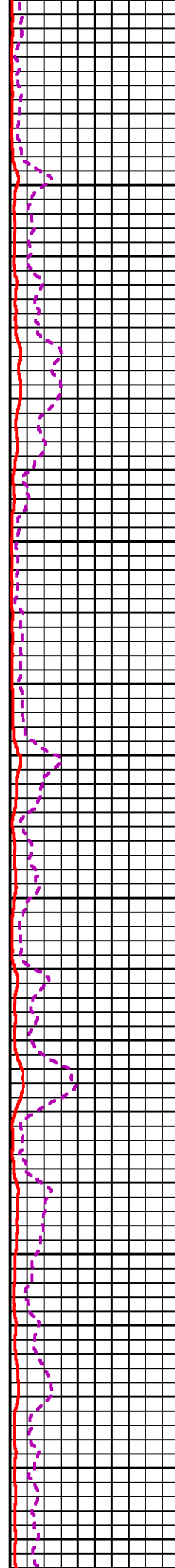
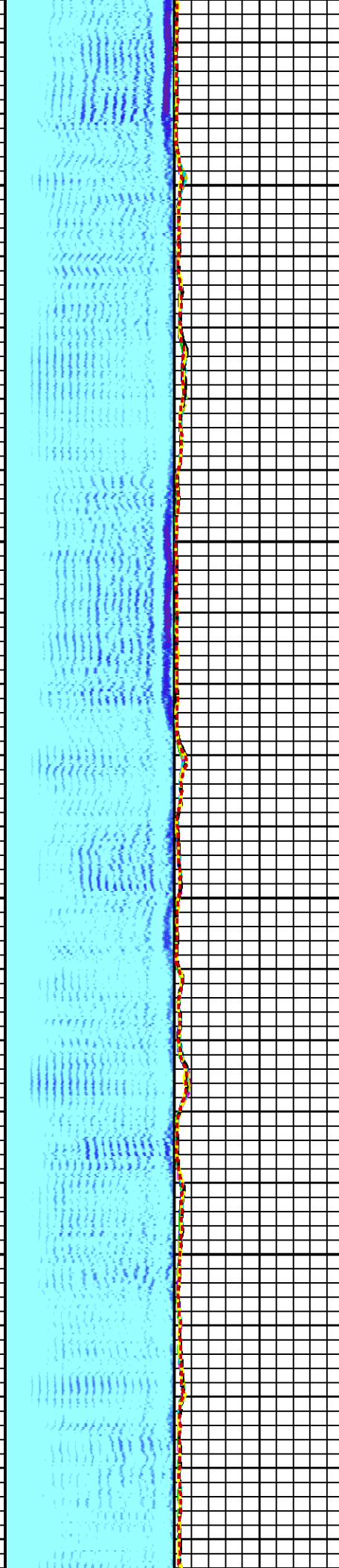
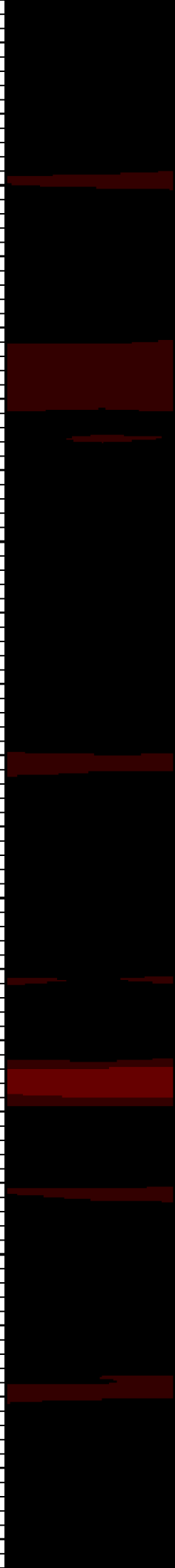




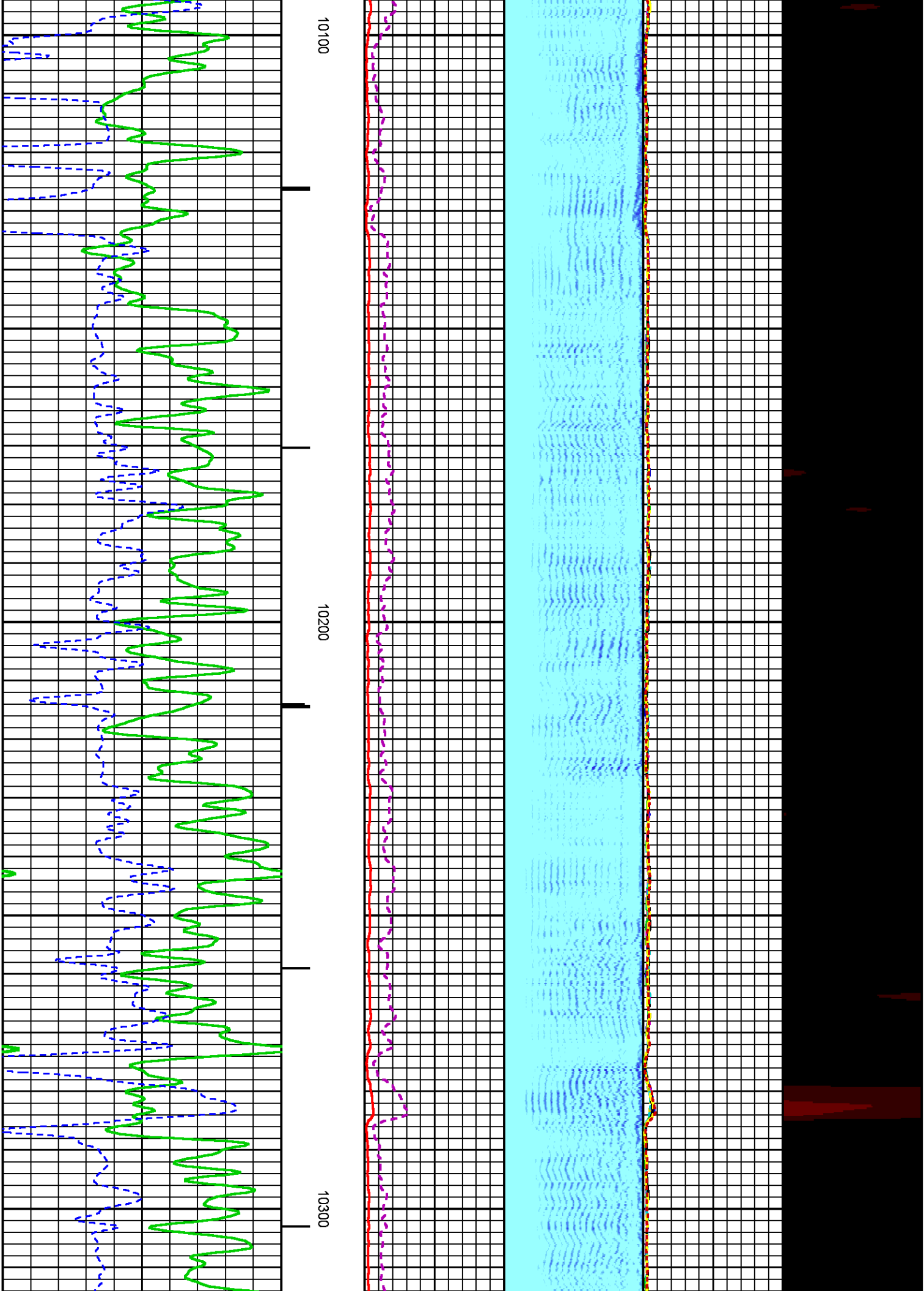


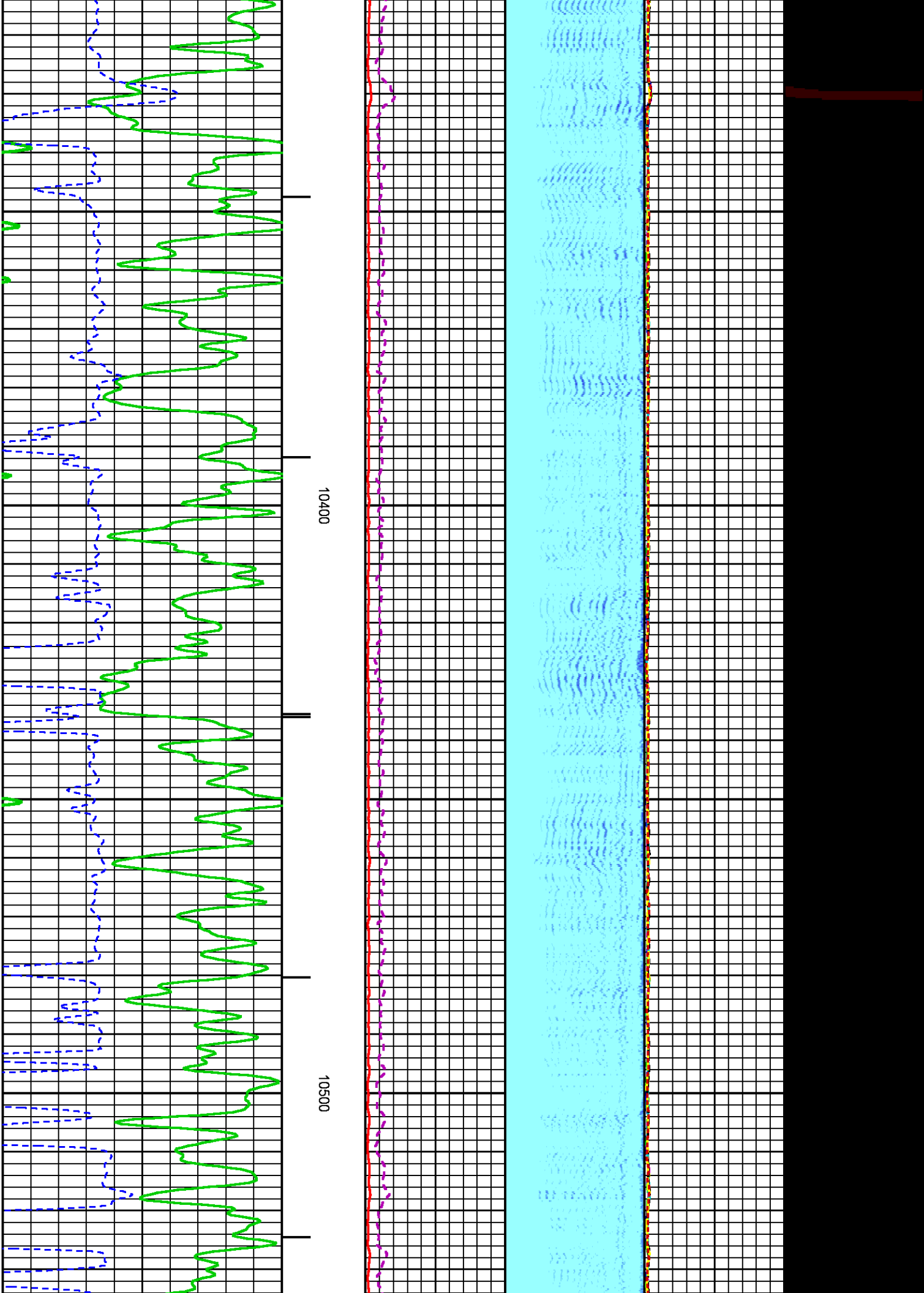


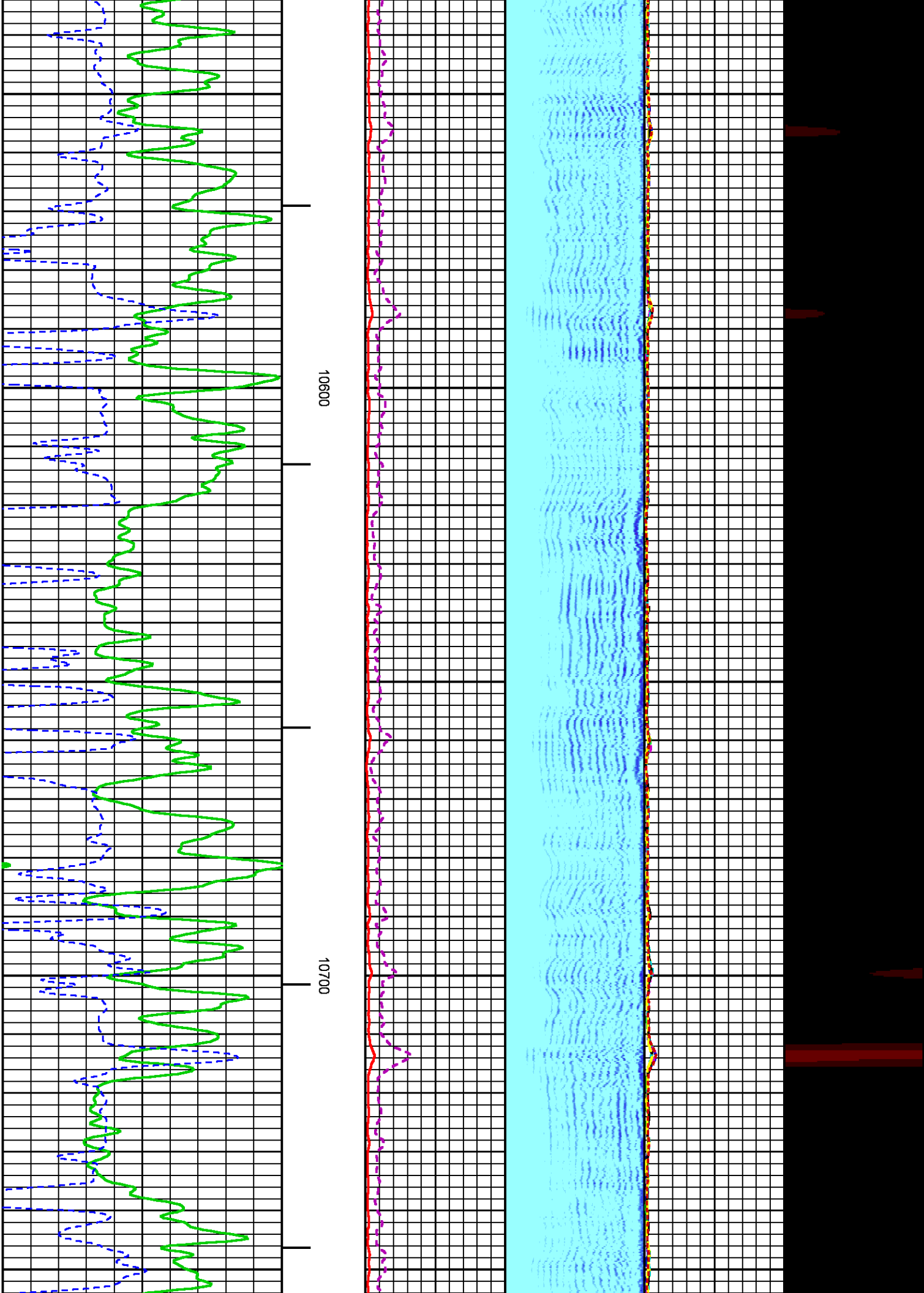


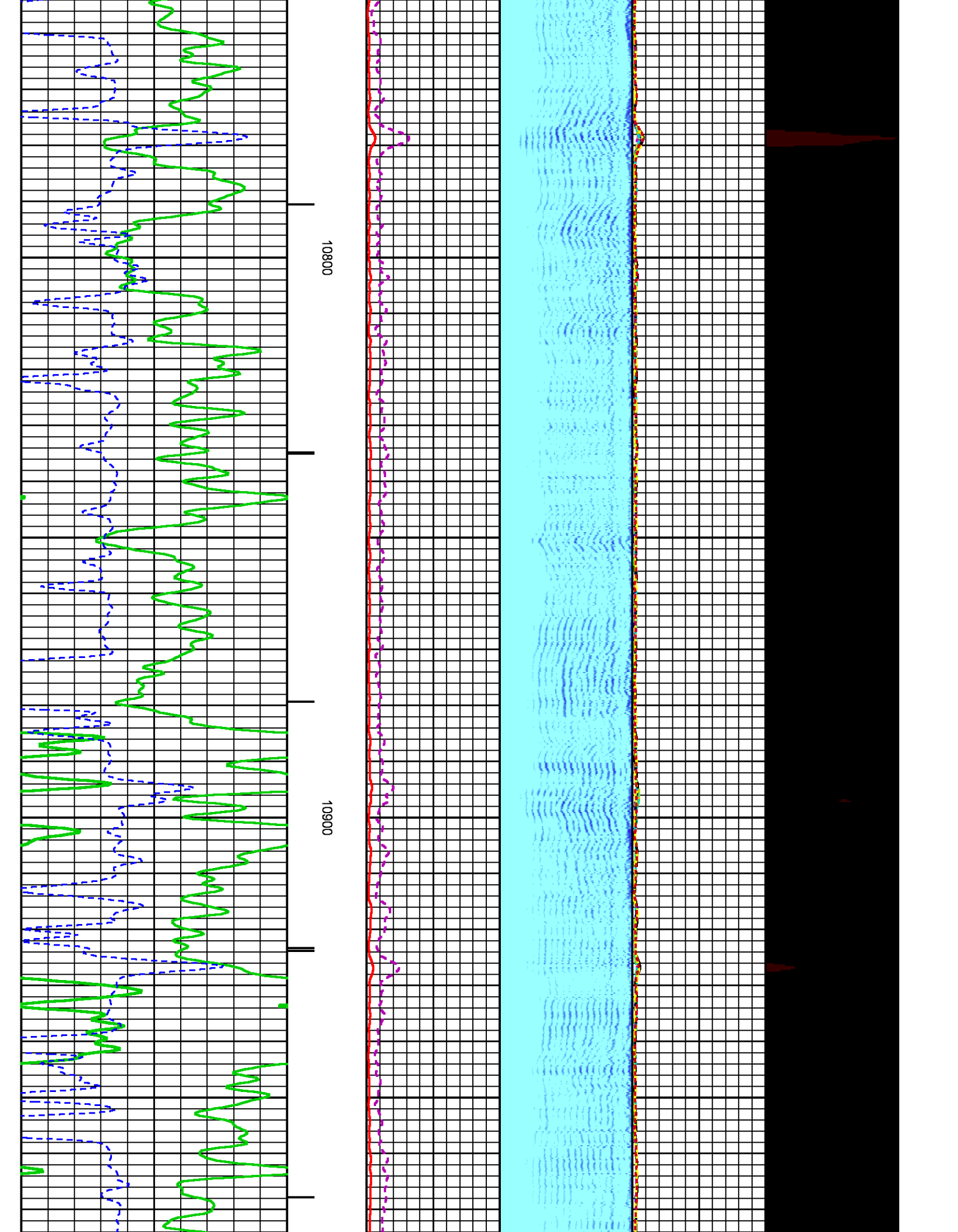


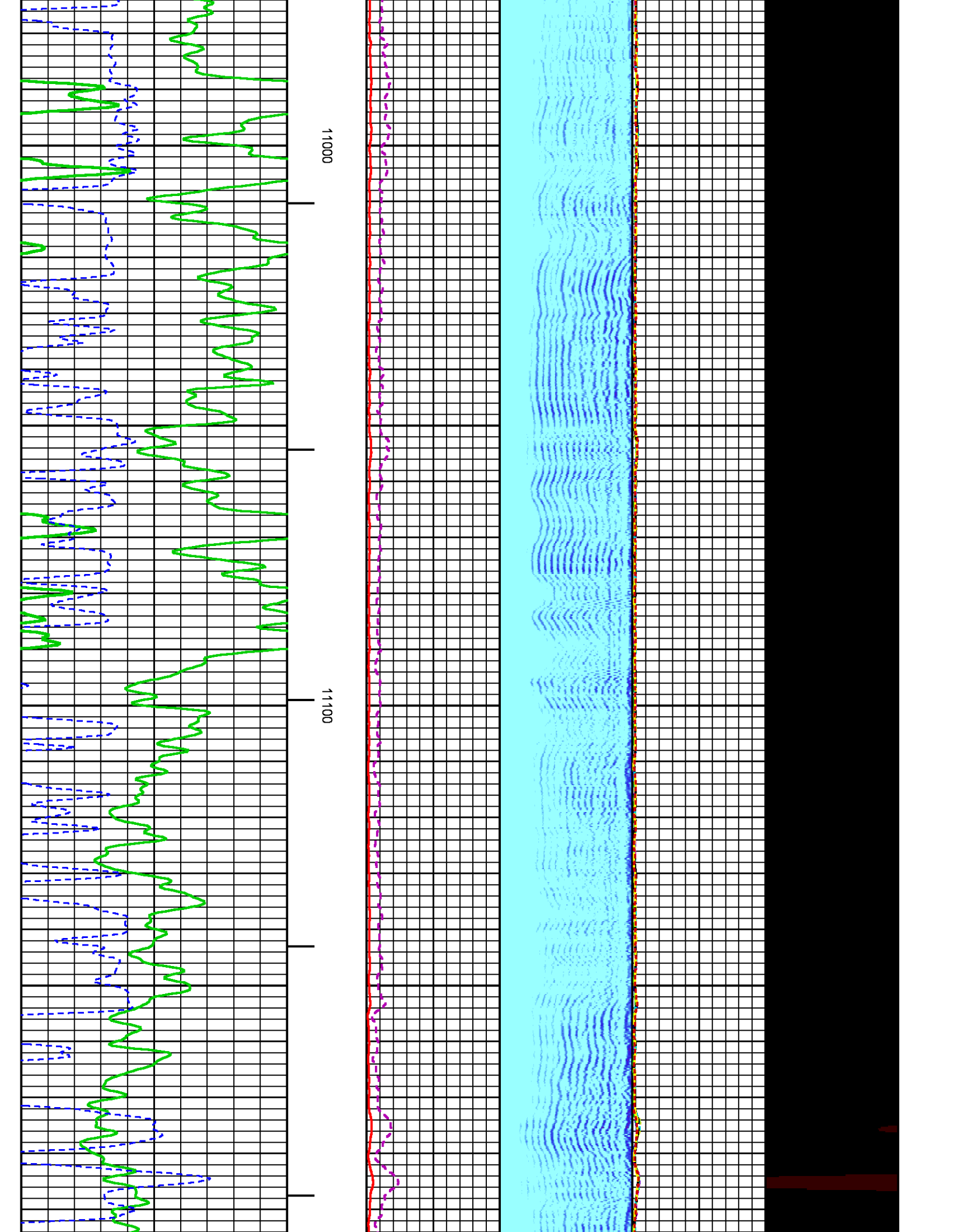




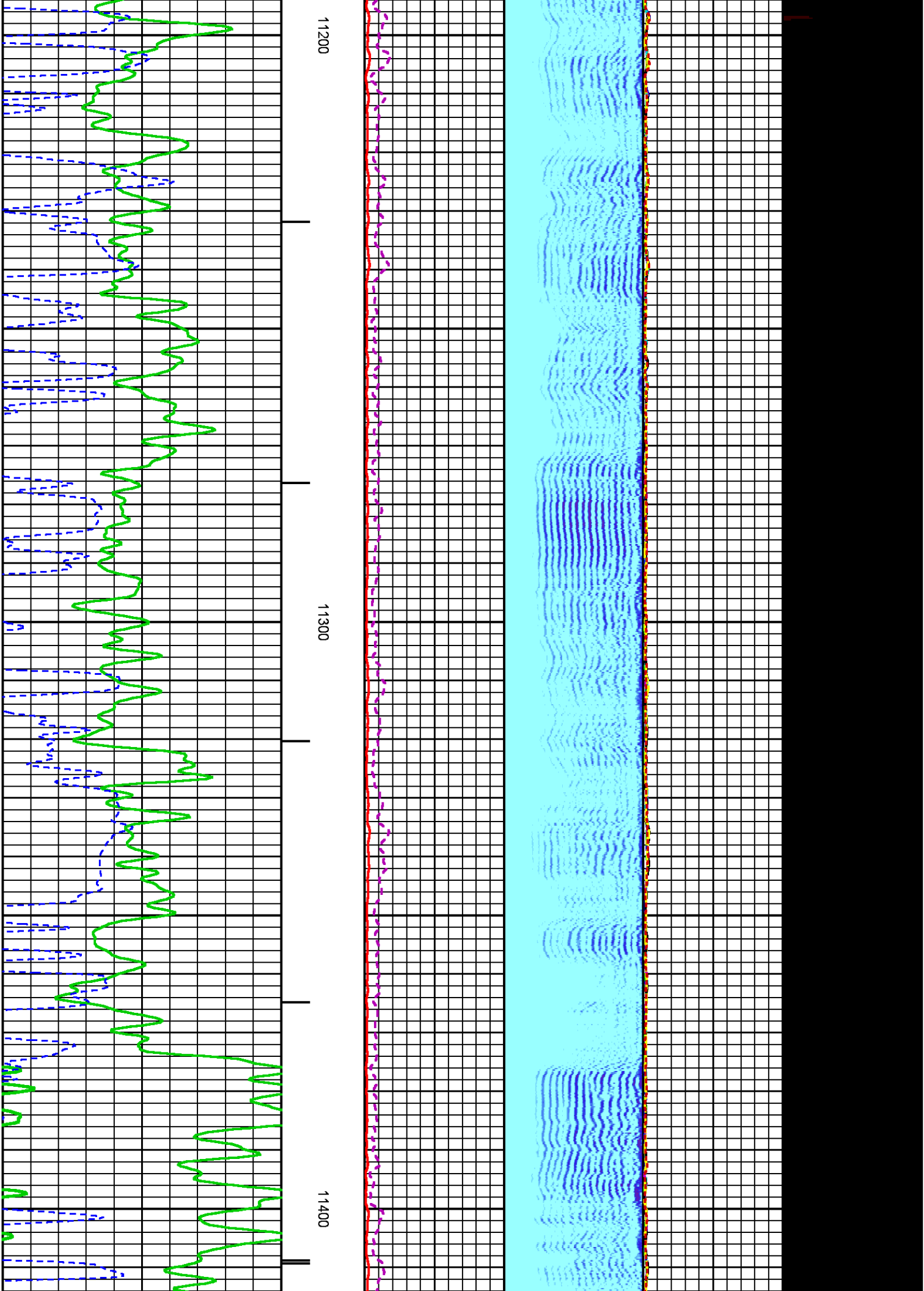


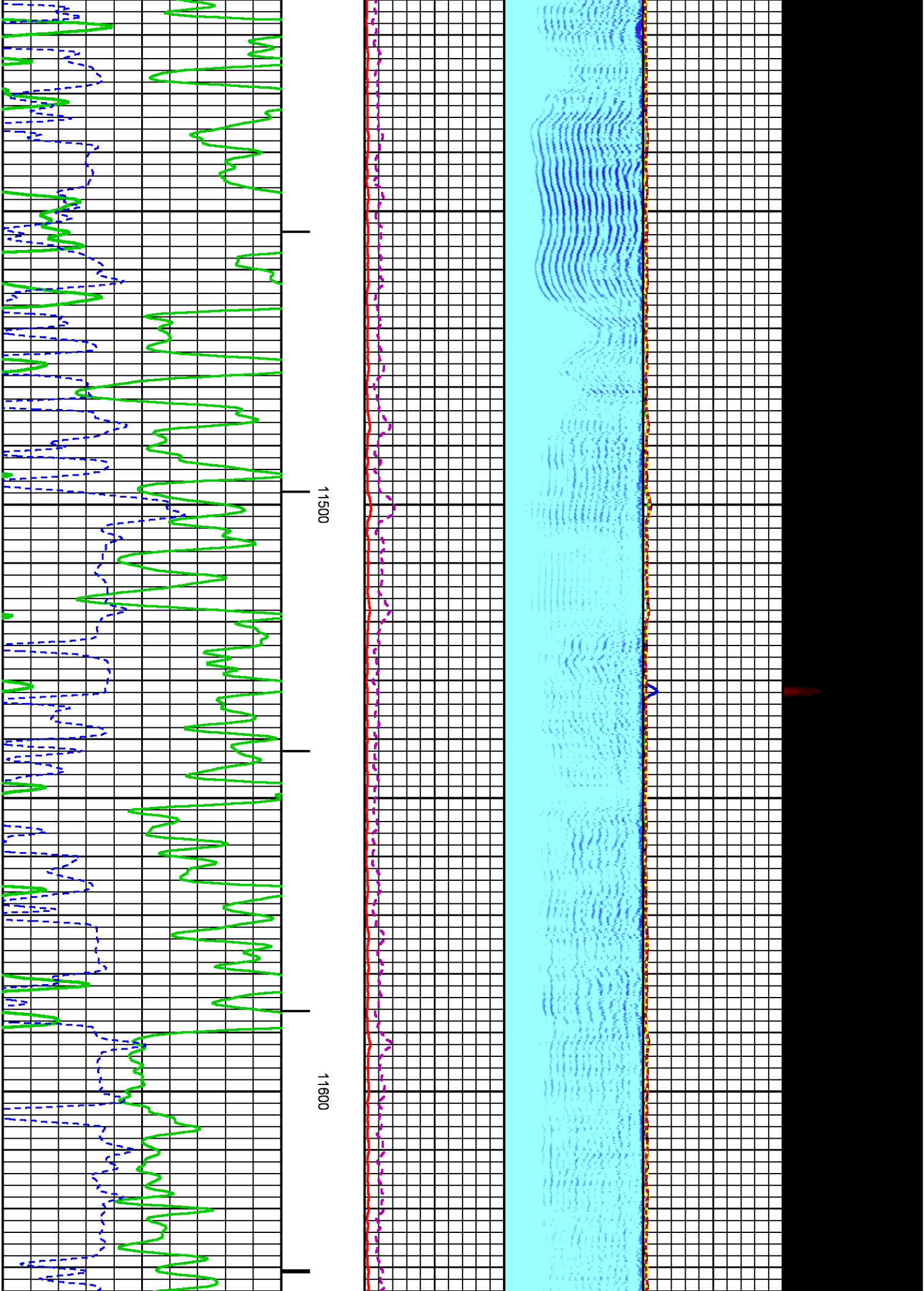


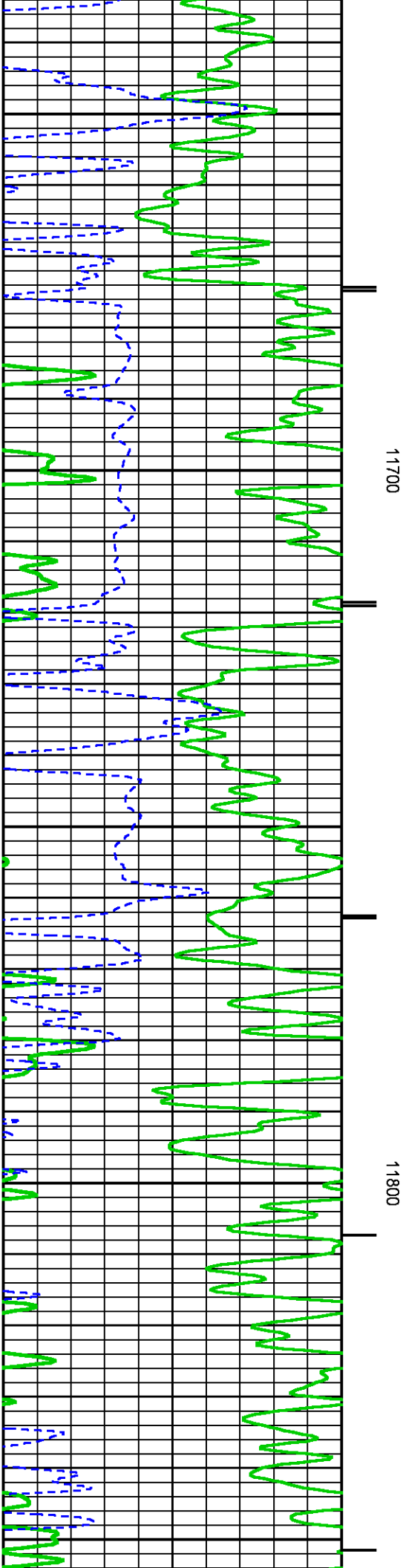
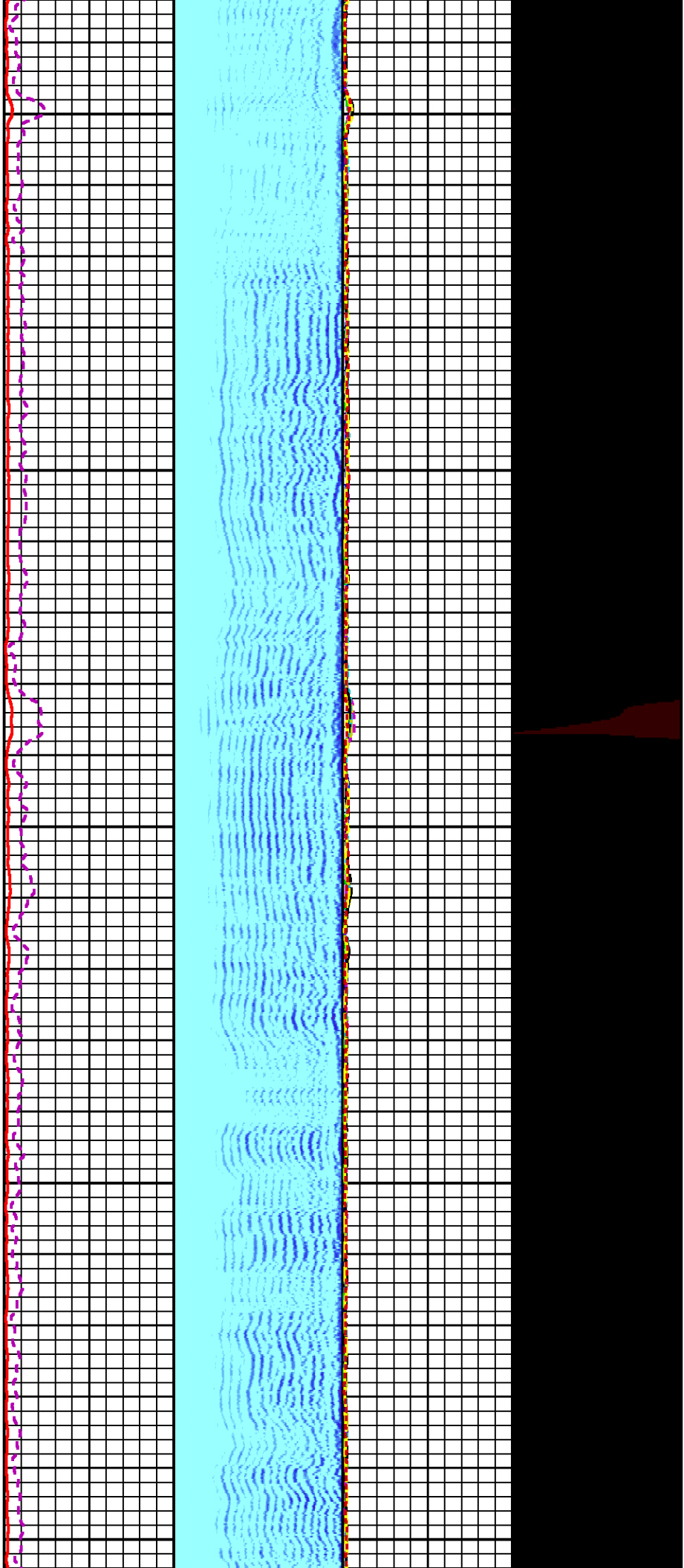


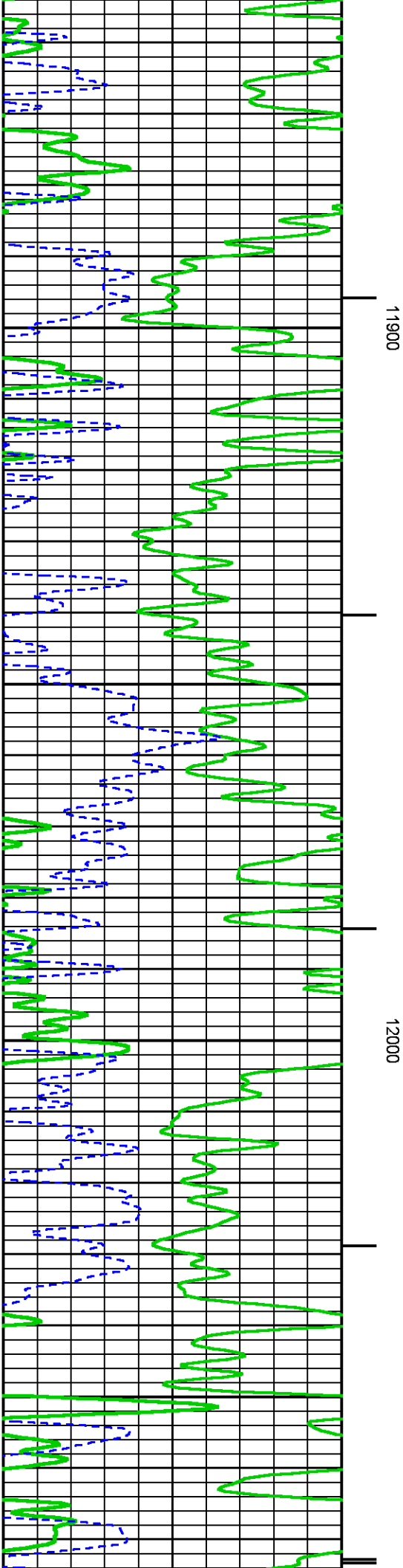
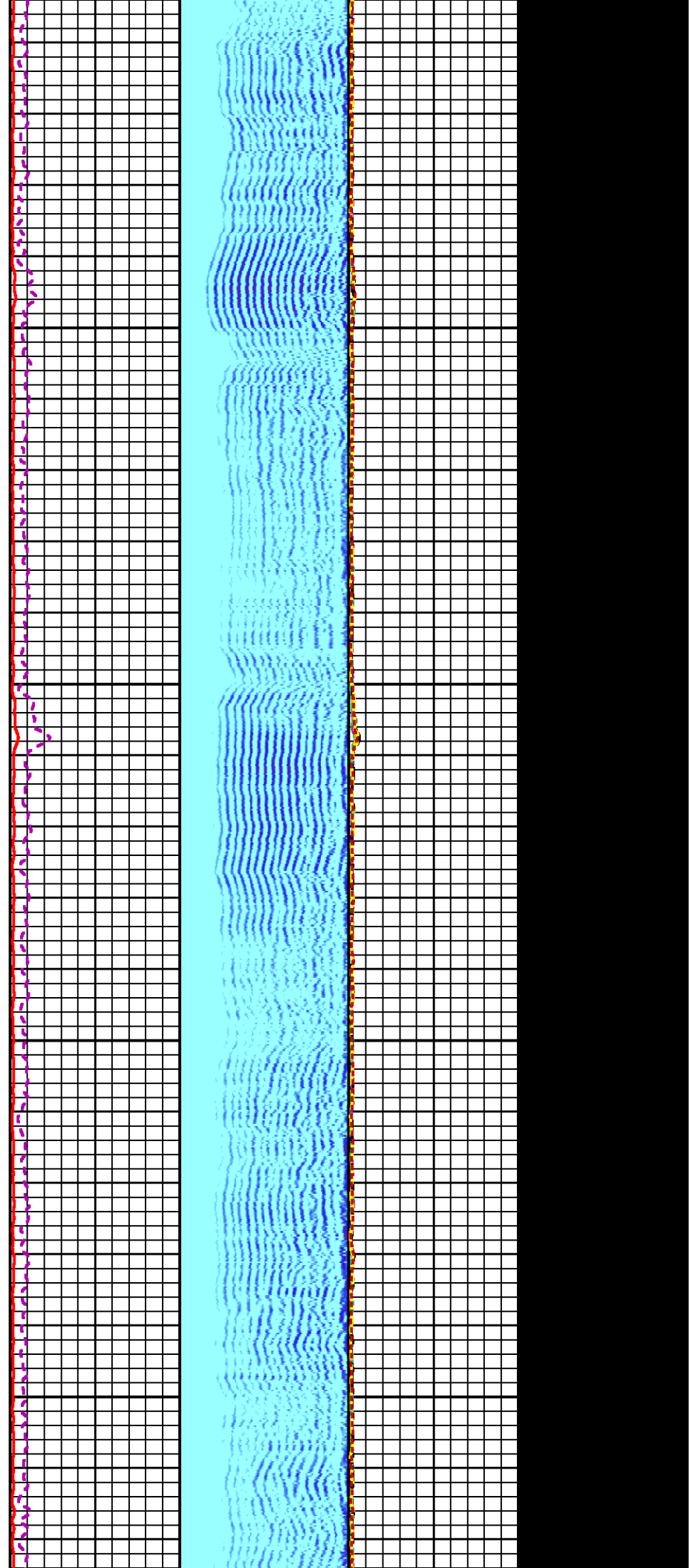


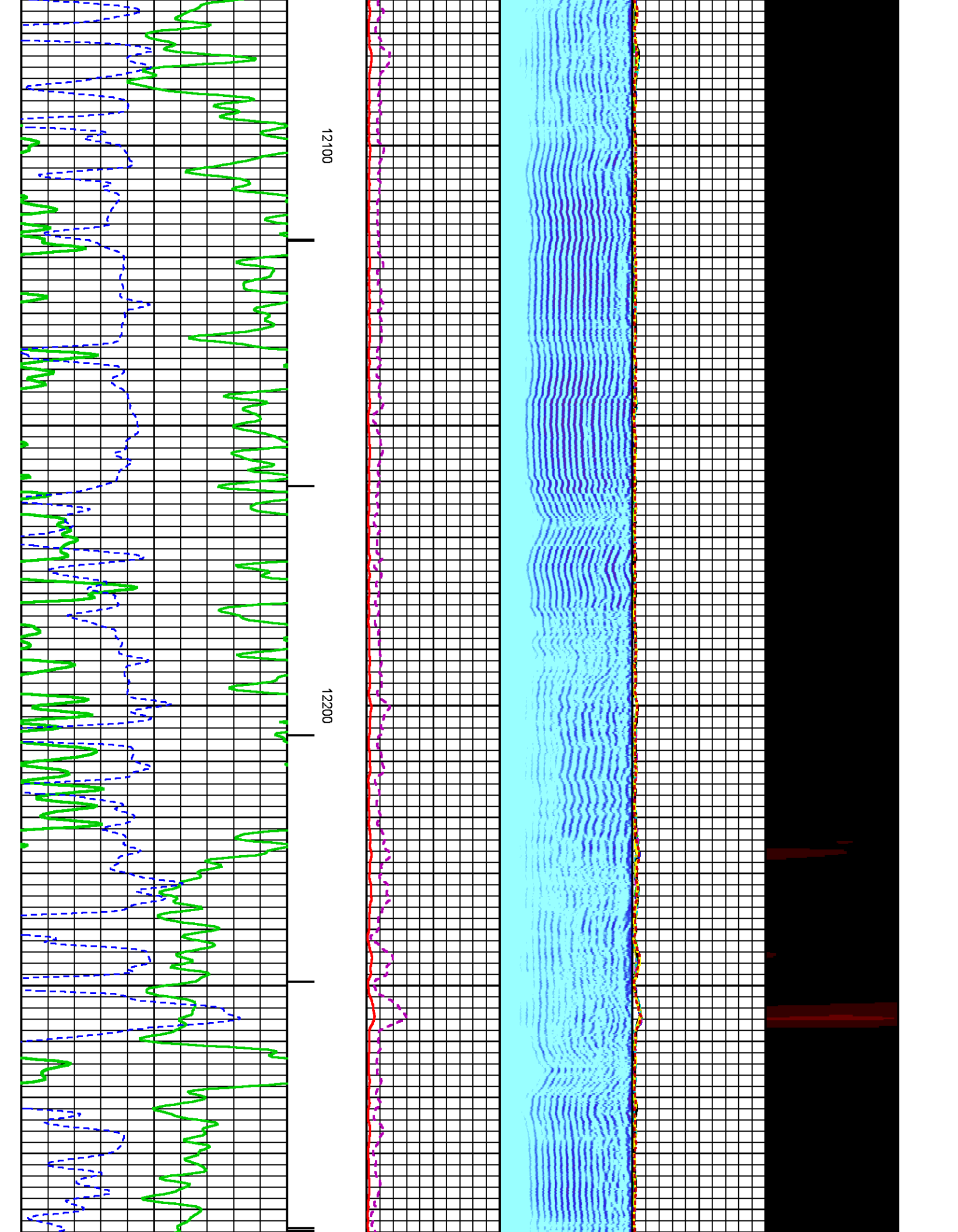




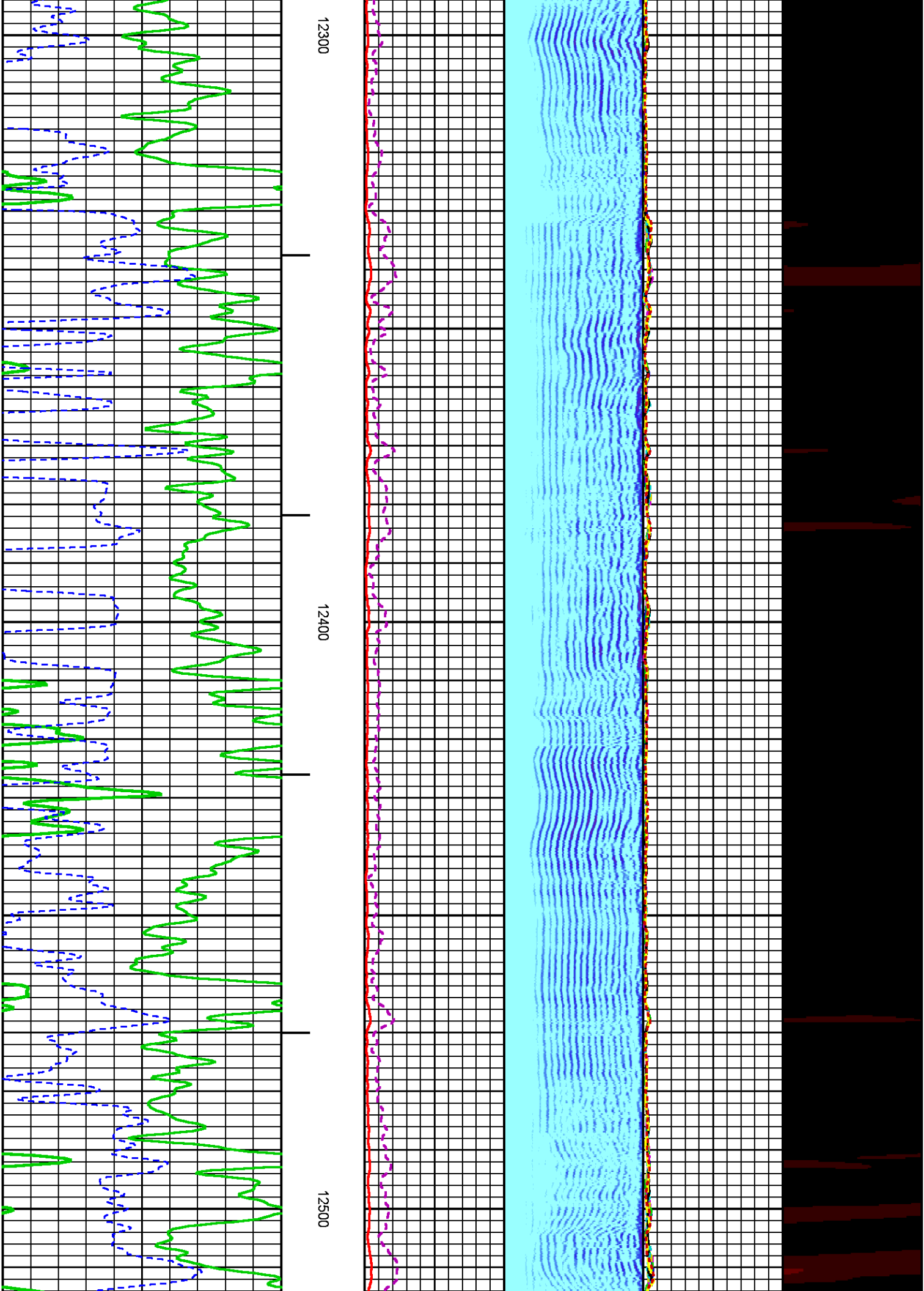


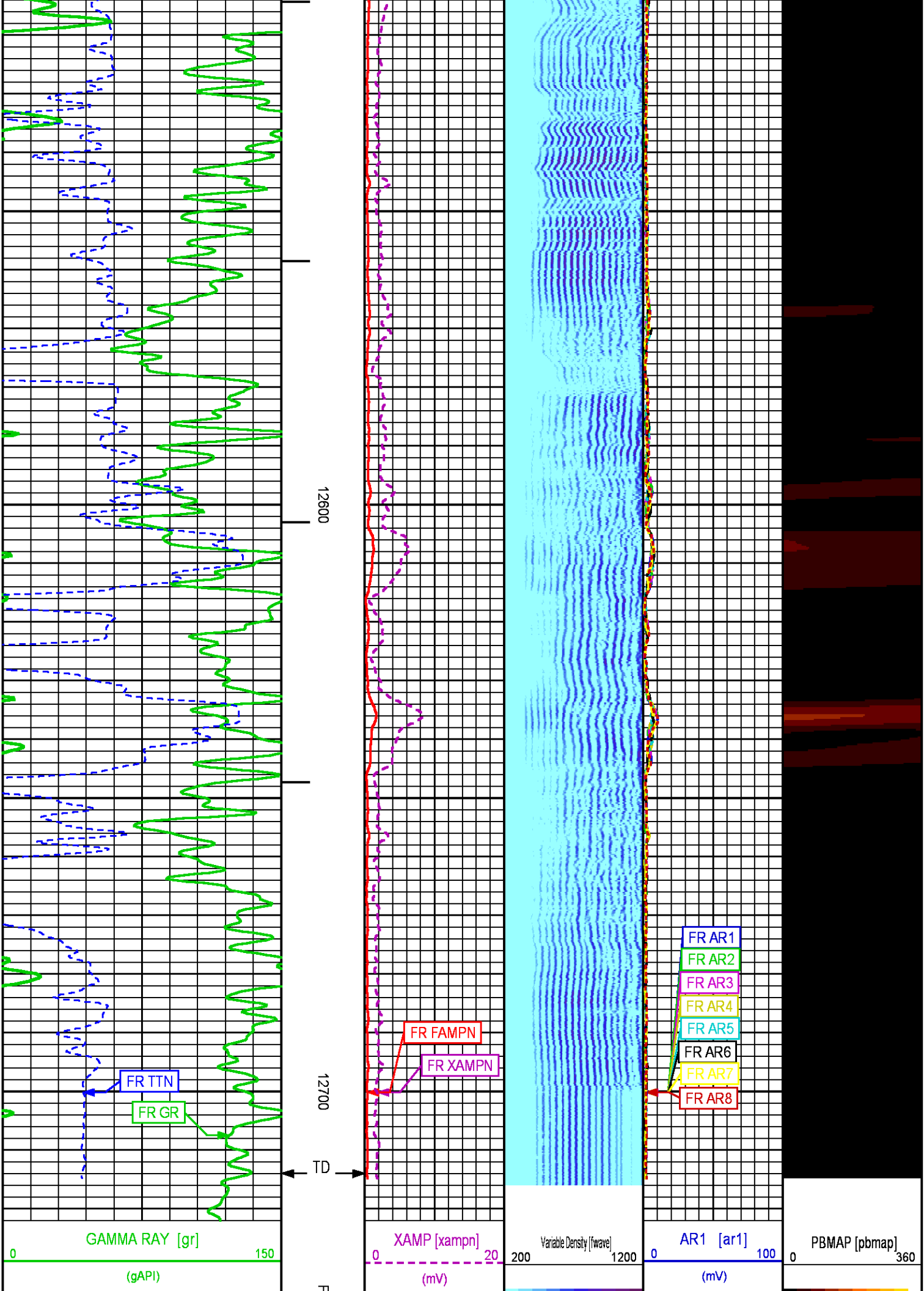


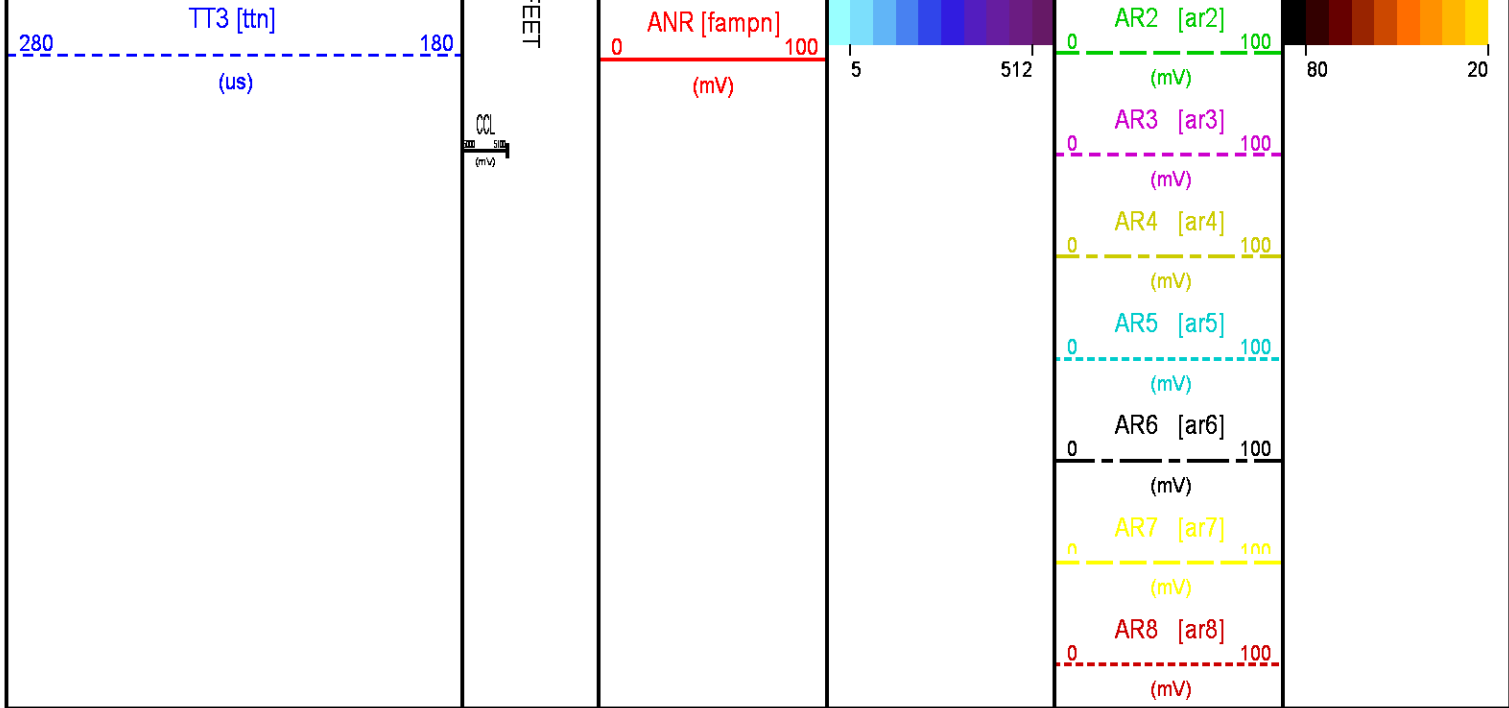












REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013  
Updates: 1 Patches: 7

Plotted: Mon May 25 16:05:50 2015

PARAMETER AND FILTER SUMMARY REPORT

|                                   |                            |                            |       |               |           |
|-----------------------------------|----------------------------|----------------------------|-------|---------------|-----------|
| FILE: /dat1a/CH096703/n012e01.prm |                            |                            |       |               |           |
| LOGGING MODE: DEPTH               |                            | DIRECTION: UP              |       |               |           |
| TOP DEPTH: 12447.000 ft           |                            | BOTTOM DEPTH: 12726.500 ft |       |               |           |
| SYMMETRIC FILTER                  |                            |                            |       |               |           |
| MEASUREMENT TYPE                  | PARAMETER                  | VALUE                      | UNITS | INTERVAL (ft) |           |
| GR                                | FILTER ()                  | medium (1)                 |       | TOP           | BOTTOM    |
| AMPLITUDE                         | FILTER ()                  | medium (1)                 |       | TOP           | 12514.500 |
|                                   |                            | light (2a)                 |       | 12514.500     | 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*)     | 176                        | 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

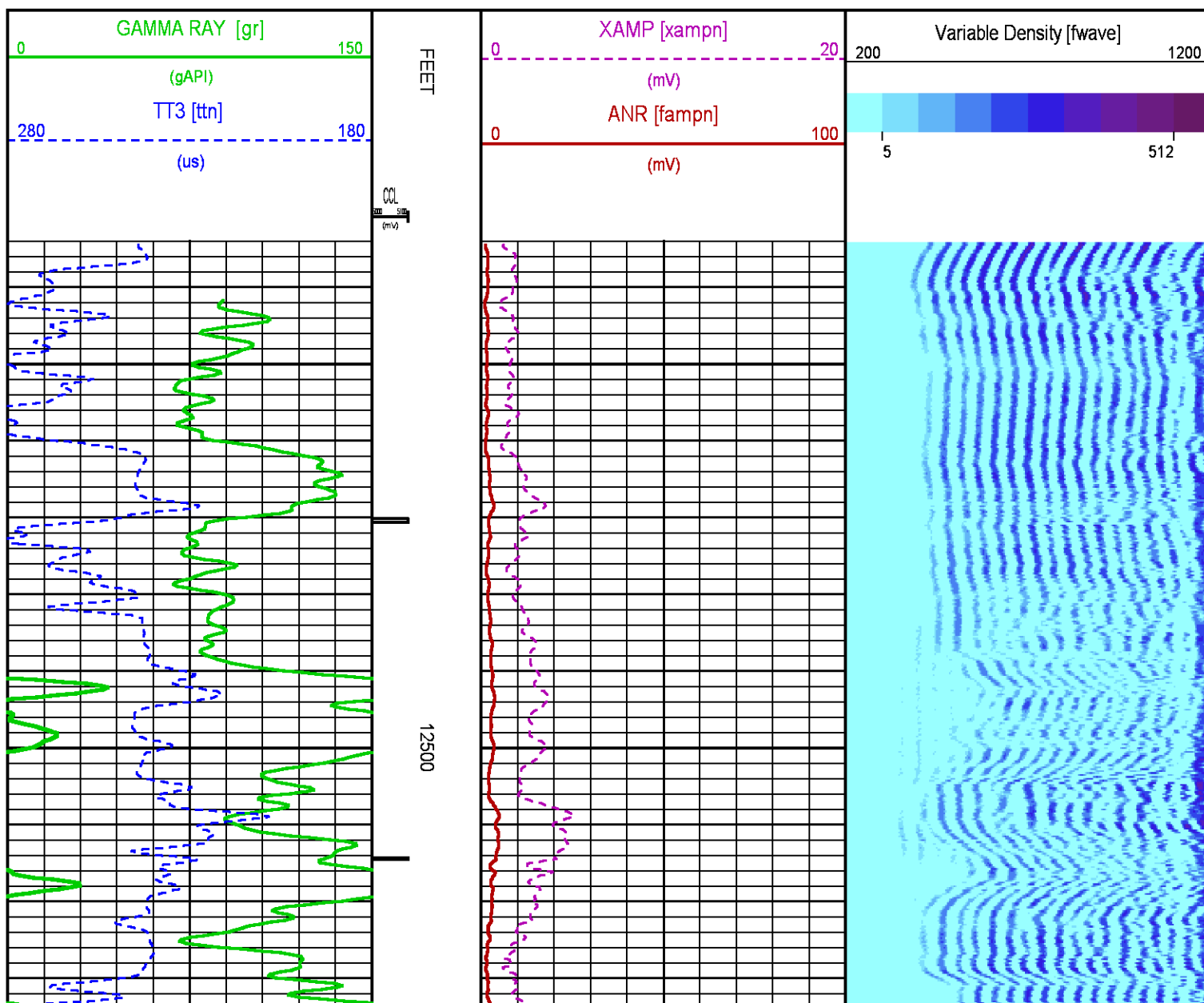
| CURVE NAME | CREATION DATE        | CURVE DESCRIPTION                             |
|------------|----------------------|---|
| F1:CCL     | May 25 12:44:32 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN   | May 25 12:44:32 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE   | May 25 12:44:32 2015 | FAR WAVE FORM                                 |
| F1:GR      | May 25 12:44:32 2015 | GAMMA RAY                                     |
| F1:TTN     | May 25 12:44:32 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN   | May 25 12:44:32 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

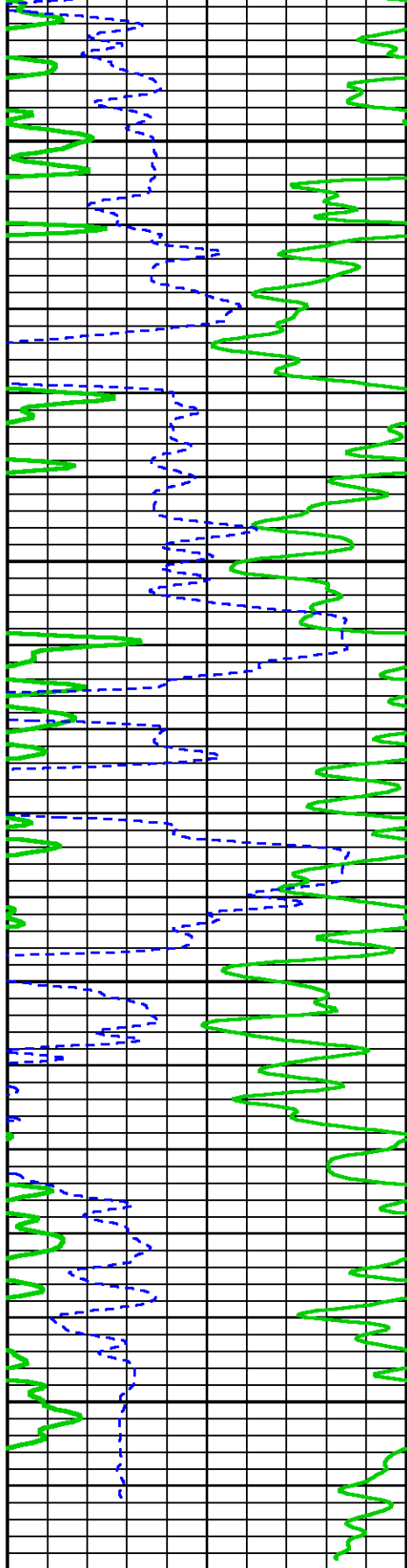
## CURVE MEASURE POINT OFFSET

| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL   | 8.50        | GR    | 6.50        | XAMPN | 13.75       |       |             |
| FAMPN | 13.75       | TTN   | 13.75       |       |             |       |             |

Presentation : cas6685:/dat1a/CH096703/REPEAT\_ral\_cbl.fvpdf [5"/100' Scale]  
Plot Interval : 12434.2 - 12725 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096703/n012e01\_REPEAT.xtf  
Created On : May 25 12:44:32 2015  
Company : WPX ENERGY  
Well : FEDERAL RGU 313-25-198  
Field : SULPHUR CREEK  
File Interval : 12433.2 - 12726.5 Feet  
OCT : n012e

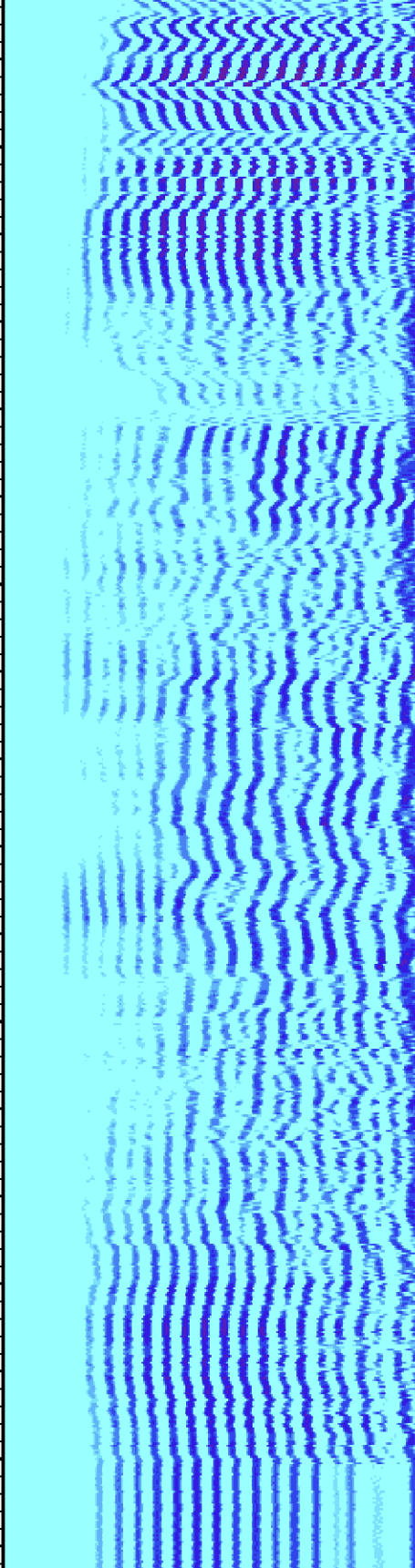
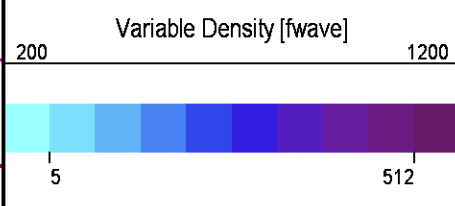
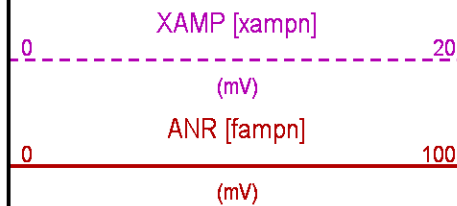
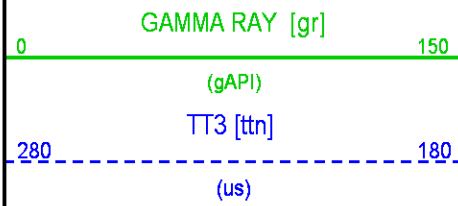




12600

12700

FEET





## CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH096703/n012e.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Sat May 23 08:36:08 2015

UNIT #: 3885TC 6685

|         | NEAR<br>(mV) | RADIAL<br>(mV) | FAR<br>(mV) |
|---------|--------------|----------------|-------------|
| TARGETS | 100.00       | 100.00         | 150.00      |

|                | NEAR  | R1    | R2    | R3   | R4   | R5    | R6    | R7   | R8   | FAR  | CAL   |
|----------------|-------|-------|-------|------|------|-------|-------|------|------|------|-------|
| ZERO (mV)      | -0.09 | -0.00 | -0.09 | 0.01 | 0.01 | -0.05 | -0.08 | 0.01 | 0.06 | 0.14 | -0.07 |
| AMP FLUID (mV) | 125   | 124   | 124   | 124  | 124  | 124   | 124   | 124  | 125  | 174  | 124   |
| TT (us)        | 218   | 218   | 217   | 214  | 217  | 218   | 217   | 216  | 218  | 327  | 218   |
| M FACTOR       | 0.80  | 0.80  | 0.80  | 0.81 | 0.80 | 0.80  | 0.80  | 0.80 | 0.80 | 0.86 | 0.81  |

### RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Mon May 25 11:47:54 2015

DAYS SINCE CAL: 2

UNIT #: 3885TC 6685

CABLE #: 6685LG 53420-C1

|         | NEAR<br>(mV) | R1<br>(mV) | R2<br>(mV) | R3<br>(mV) | R4<br>(mV) | R5<br>(mV) | R6<br>(mV) | R7<br>(mV) | R8<br>(mV) | FAR<br>(mV) | CAL<br>(mV) |
|---------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| ZERO    | 0.06         | 0.01       | -0.01      | 0.05       | 0.01       | -0.03      | 0.05       | -0.00      | -0.02      | 0.04        | -0.01       |
| AMP AIR | 1.11         | 0.83       | 0.97       | 1.07       | 1.20       | 1.36       | 1.31       | 1.14       | 1.19       | 1.15        | 100.55      |

| SHOP<br>M FACTOR | SHOP<br>A FACTOR | WIRELINE<br>FACTOR |
|------------------|------------------|--------------------|
| 0.81             | 0.00             | 0.99               |

## GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2459XA 10417457

DATE/TIME PERFORMED: Mon May 18 15:41:33 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK VBA-905

|    | BACKGROUND CALBRTR ON<br>(cts) | CR DIFF<br>(cts/s) | MULT  | BACKGROUND CALBRTR ON<br>(gAPI) | CALBRTR<br>(gAPI) |
|----|--------------------------------|--------------------|-------|---------------------------------|-------------------|
| GR | 86.84                          | 335.29             | 248.4 | 0.403                           | 34.96             |
|    |                                |                    |       |                                 | 134.96            |
|    |                                |                    |       |                                 | 100               |

## GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2459XA 10417457

DATE/TIME PERFORMED: Mon May 18 15:43:36 2015

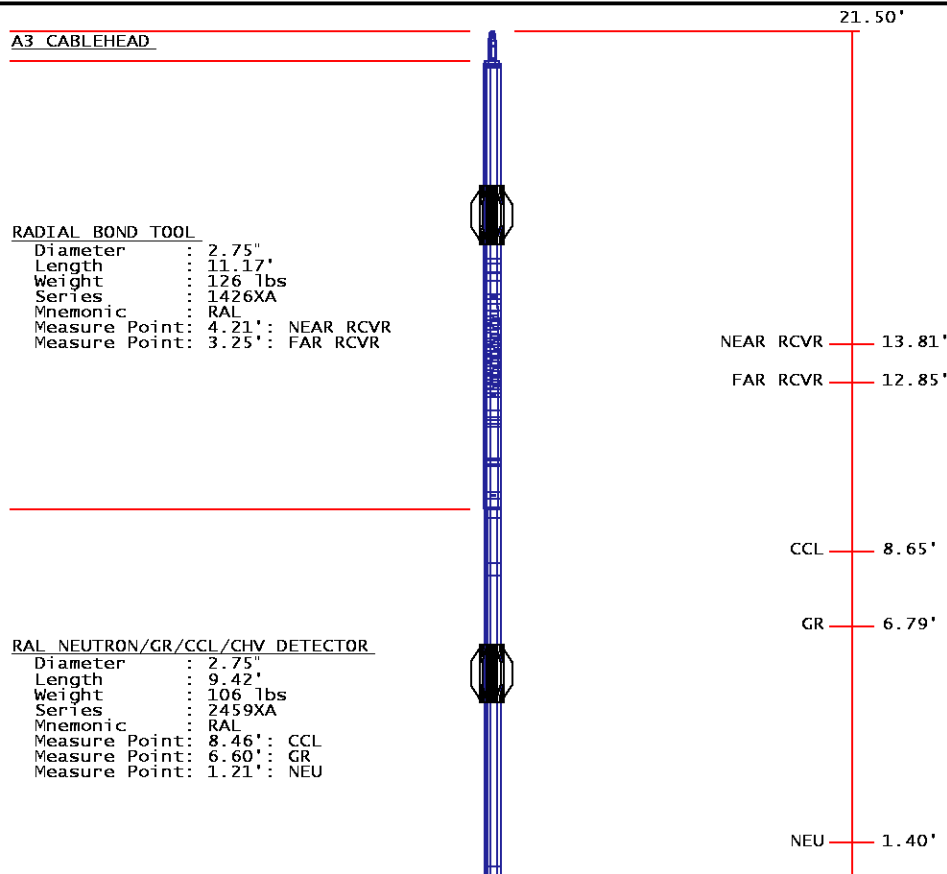
UNIT #: 3885TC 6685

VERI JIG #: 4702NK VBA-905

|    | BACKGROUND CALBRTR ON<br>(cts) | MULT   | BACKGROUND CALBRTR ON<br>(gAPI) | DIFF.<br>(gAPI) |
|----|--------------------------------|--------|---------------------------------|-----------------|
| GR | 85.87                          | 340.67 | 0.403                           | 34.56           |
|    |                                |        |                                 | 137.12          |
|    |                                |        |                                 | 102.56          |
|    |                                |        |                                 | 90.00           |
|    |                                |        |                                 | 110.00          |

## INSTRUMENT CONFIGURATION


Source File: /dat1a/CH096699/n012e~tdg



BULL PLUG 2 3/4

0.00'

TOTAL LENGTH: 21.50'  
TOTAL WEIGHT: 240 lbs  
MAX DIAMETER: 0'4.25"

|  |           |  |         |                                |   |
|--|-----------|--|---------|--------------------------------|---|
|  | COMPANY   | WPX ENERGY   |         | FILE NO:                       |   |
|  | WELL      | FEDERAL RGU 313-25-198   |         |                                | CH096703                                |
|  | FIELD     | SULPHUR CREEK  |         | API NO:                        |   |
|  | COUNTY    | RIO BLANCO   | STATE   | COLORADO                       | 05103119830000                          |
|  | LOCATION: | SHL: 2454'FNL 901'FEL SEC26 T1S R98W<br>BHL: 1631'FSL 265'FWL SEC25 T1S R98W |         | ELEVATIONS:                    | SEC 25 T1S R98W<br>42-26-198<br>H&P 318 |
|  | SEC 25    | TWP 1S   | RGE 98W | KB 6646 FT<br>DF<br>GL 6622 FT |   |
|  |           |  |         | DATE                           | 25-May-2015                             |