



|                          |                           |
|--------------------------|---------------------------|
| FILE NO:<br>CH093871     | COMPANY<br>WPX ENERGY     |
| API NO:<br>0504522380000 | WELL<br>FEDERAL PA 341-27 |
|                          | FIELD<br>PARACHUTE        |
|                          | COUNTY<br>GARFIELD        |
|                          | STATE<br>COLORADO         |

|  |  |                       |
|--|--|-----------------------|
| Version<br>27 6S 95W<br>DOE 2-W-27 PAD<br>NABORS 576 | LOCATION:<br>SHL: 2345' FNL & 647' FEL<br>BHL: 602' FNL & 261' FEL (NENE)<br>SEC 27 TWP 6S RGE 95W | OTHER SERVICES<br>RPM |
|--|--|-----------------------|

|   |                |   |   |
|---|----------------|---|---|
| PERMANENT DATUM<br>LOG MEASURED FROM<br>DRILL. MEAS. FROM | GL<br>KB<br>KB | ELEVATION<br>5856 FT<br>26 FT<br>ABOVE P.D. | ELEVATIONS:<br>KB 5882 FT<br>DF<br>GL 5856 FT |
|---|----------------|---|---|

|                        |              |
|------------------------|--------------|
| DATE                   | 8-Jan-2015   |
| RUN                    | 1            |
| TRIP                   | 1            |
| SERVICE ORDER          | US093871     |
| DEPTH DRILLER          | 8809 FT      |
| DEPTH LOGGER           | 8742 FT      |
| BOTTOM LOGGED INTERVAL | 8732 FT      |
| TOP LOGGED INTERVAL    | 26 FT        |
| TIME STARTED           | 0830         |
| TIME FINISHED          | 1130         |
| OPERATOR RIG TIME      | 3 HOURS      |
| TYPE OF FLUID IN HOLE  | WATER        |
| FLUID DENSITY          | NA           |
| FLUID SALINITY         | NA           |
| FLUID LEVEL            | 71 FT        |
| LOGGED CEMENT TOP      | NA           |
| WELLHEAD PRESSURE      | 0 PSI        |
| MAXIMUM HOLE DEVIATION | NA           |
| NOMINAL LOGGING SPEED  | 65 FMIN      |
| MAX. RECORDED TEMP.    | 249 DEGF     |
| REFERENCE LOG          | NA           |
| REFERENCE LOG DATE     | NA           |
| EQUIP. NO.             | 4271         |
| LOCATION               | GRAND JCT.   |
| RECORDED BY            | FLOYD RENEAU |
| WITNESSED BY           | JEFF DUCY    |

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      |
| 13.5 IN         | 26 FT   | 2916 FT |
| 8.75 IN         | 2916 FT | 8807 FT |

| CASING RECORD |           |       |       |         |
|---------------|-----------|-------|-------|---------|
| SIZE          | WEIGHT    | GRADE | FROM  | TO      |
| 9.625 IN      |           |       | 26 FT | 2916 FT |
| 4.5 IN        | 11.6 LB/F | I-80  | 26 FT | 8807 FT |

### REMARKS

RUN 1 TRIP 1: All data on this log is shifted using the CCL curve to put the wellhead (top CCL mark) on depth with ground level elevation at client's request.

The amount of linear shift is +3 feet.

Logged with Zero PSI at wellhead.

BHT =

SJ = 5151' - 5173'

Thanks you for choosing Baker-Hughes.

## EQUIPMENT DATA

| RUN | TRIP | TOOL   | SERIES NO. | SERIAL NO. | POSITION    |
|-----|------|--------|------------|------------|-------------|
| 1   | 1    | CBL    | 1426XA     | 10218496   | CENTRALIZED |
| 1   | 1    | GR/CCL | 1355XA     | 10580209   | CENTRALIZED |

## PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Fri Jan 09 10:39:02 2015

## PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\093871\012g02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 27.500 ft BOTTOM DEPTH: 8750.070 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*)   | 183     | us    | TOP           | BOTTOM |
|                           | AMP WINDOW LENGTH          | 25      | us    | "             | "      |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*)     | 197     | 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*)         | -72     | 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     | Jan 8 09:12:18 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE   | Jan 8 09:12:18 2015 | FAR WAVE FORM                                 |
| F1:GR      | Jan 8 09:12:18 2015 | GAMMA RAY                                     |
| F1:TTN     | Jan 8 09:12:18 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

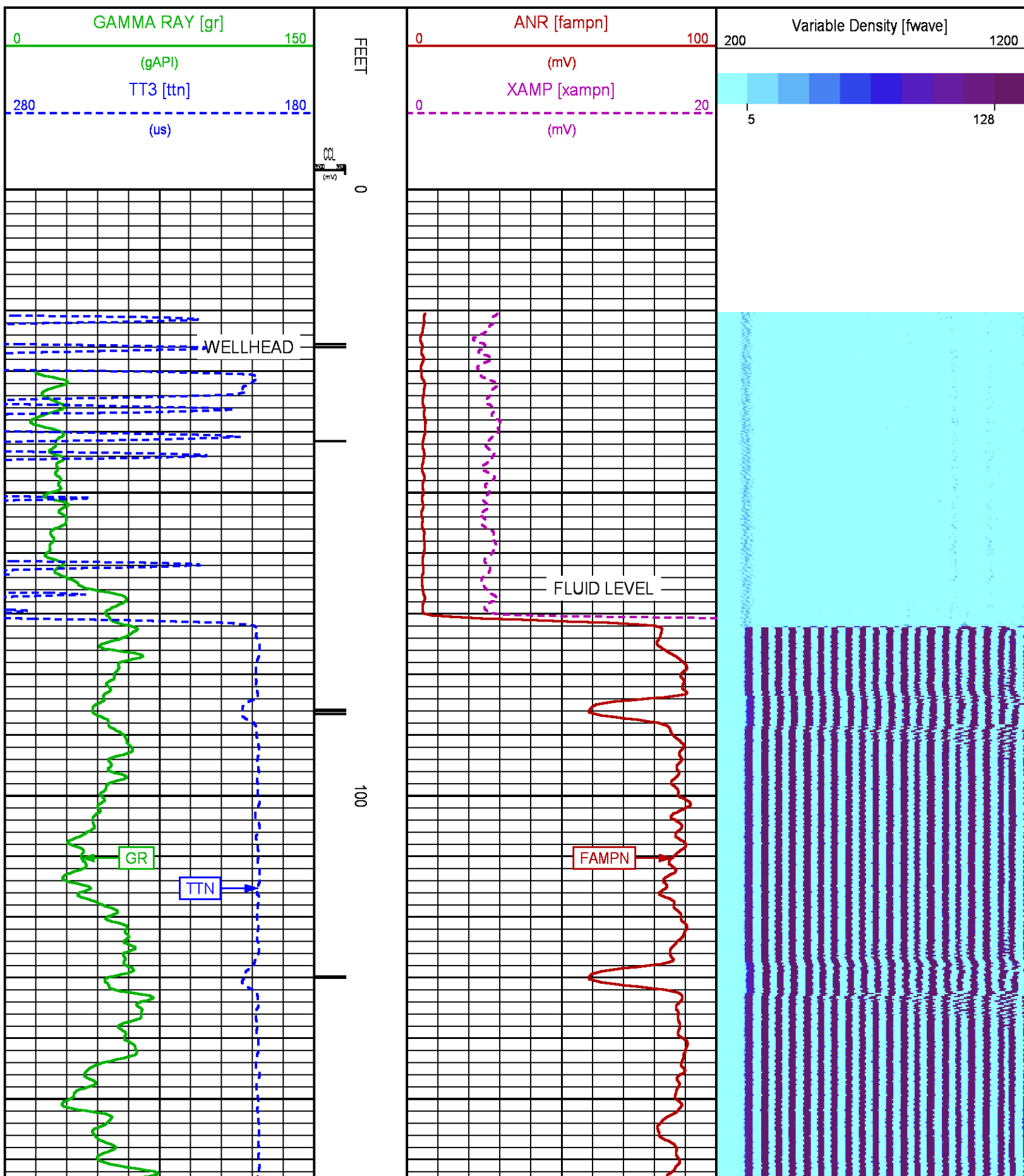
## CURVE MEASURE POINT OFFSET

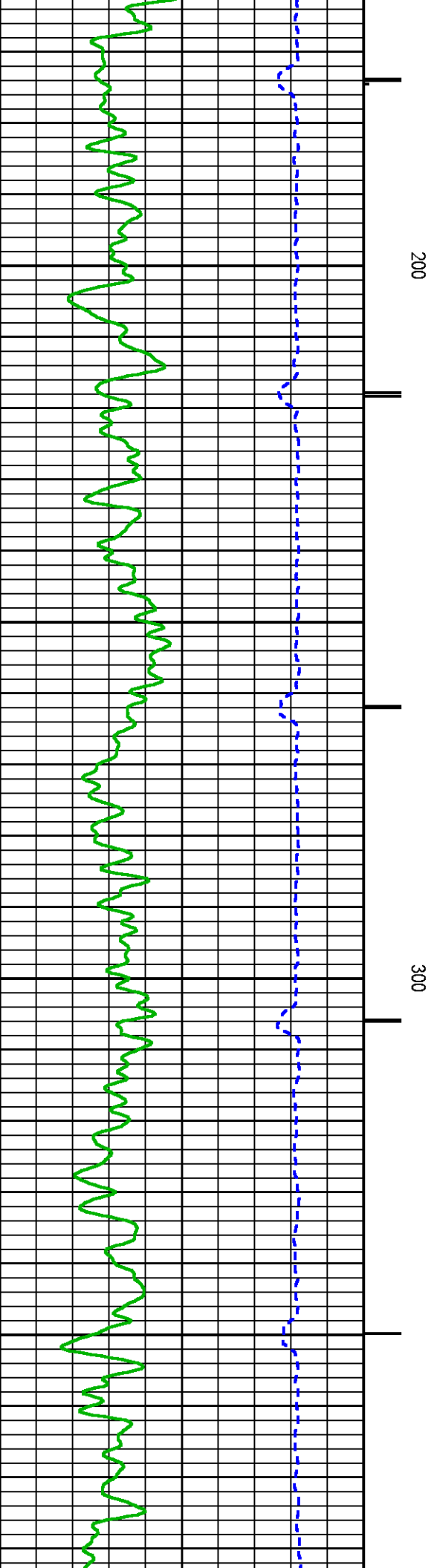
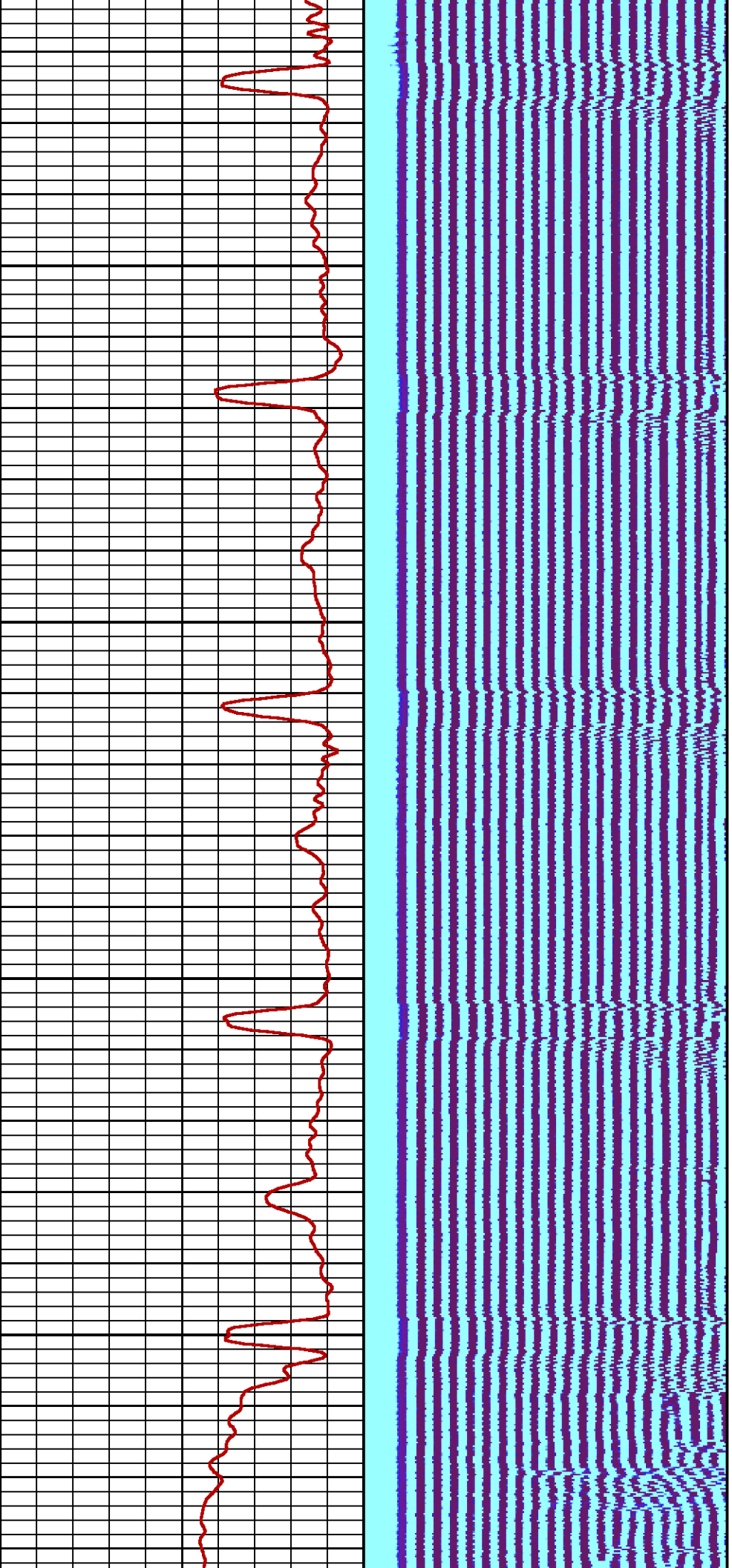
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL   | 5.75        | GR    | 1.75        | XAMPN | 11.25       |       |             |
| FAMPN | 11.25       | TTN   |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

Presentation : BHUGHES-06627:C:\dat1a\093871\341\_CBL\_PRIMARY.fvpdf [5"/100' Scale]  
Plot Interval : 0.87505 Feet

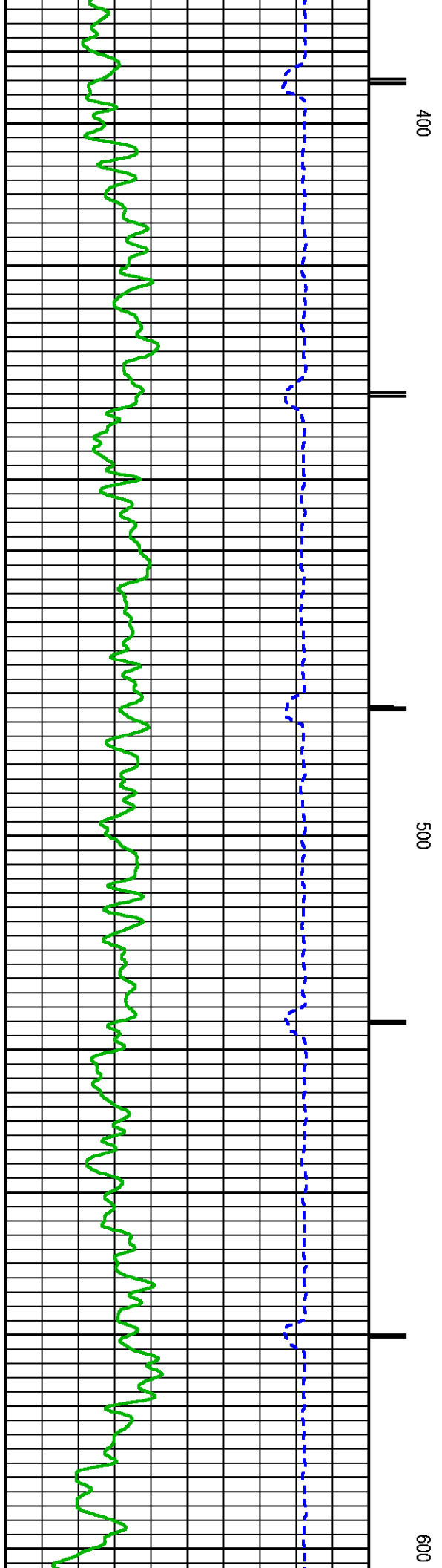
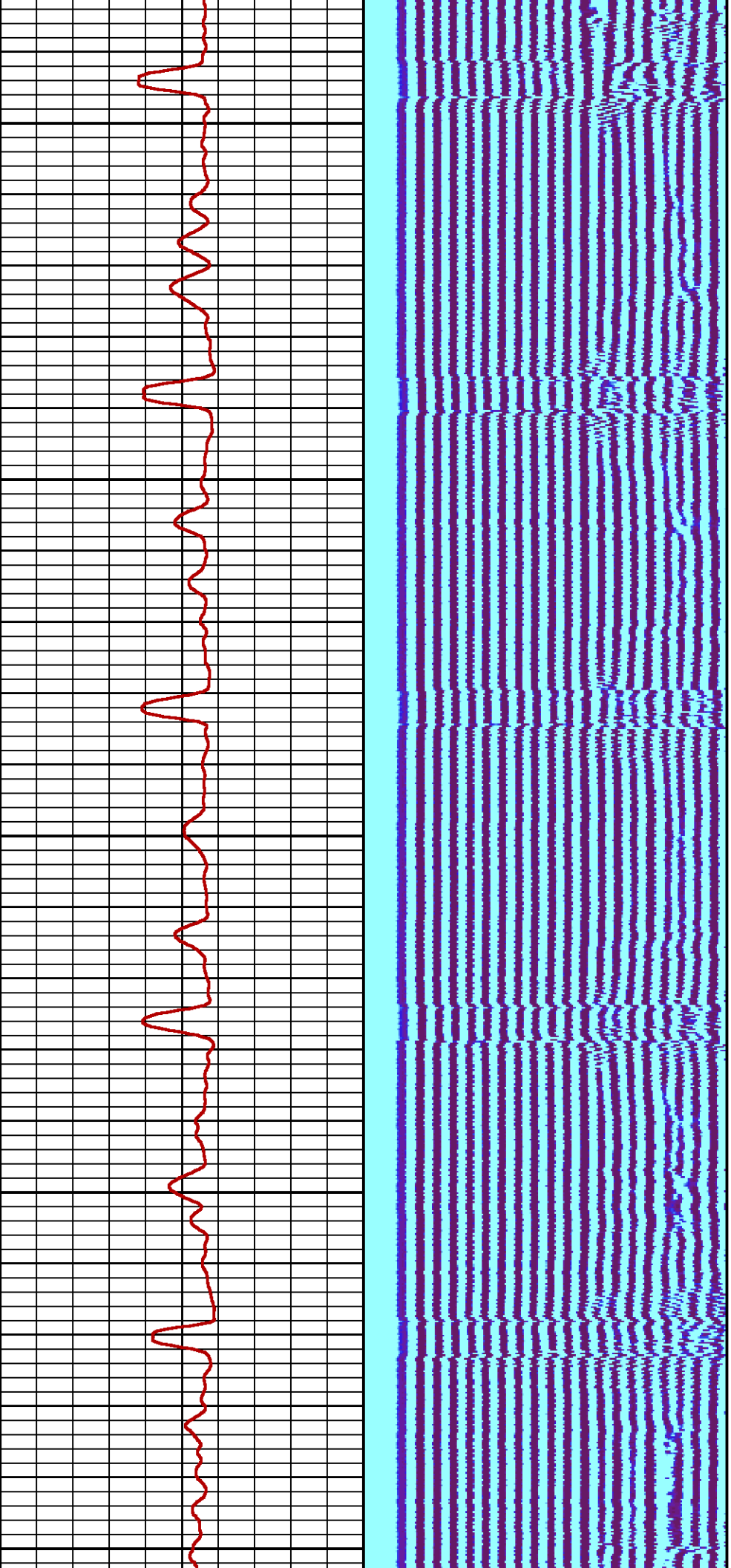
Plot Interval : 0 - 0.50.5 Feet

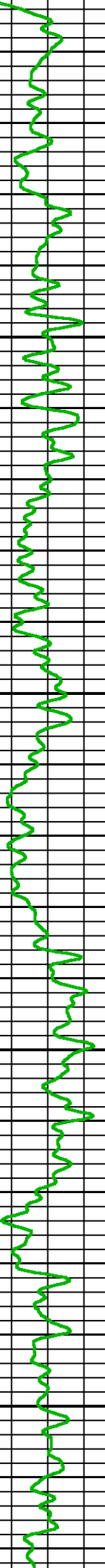
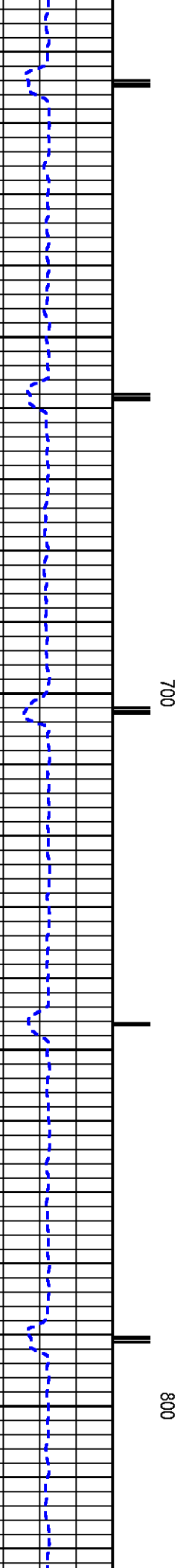
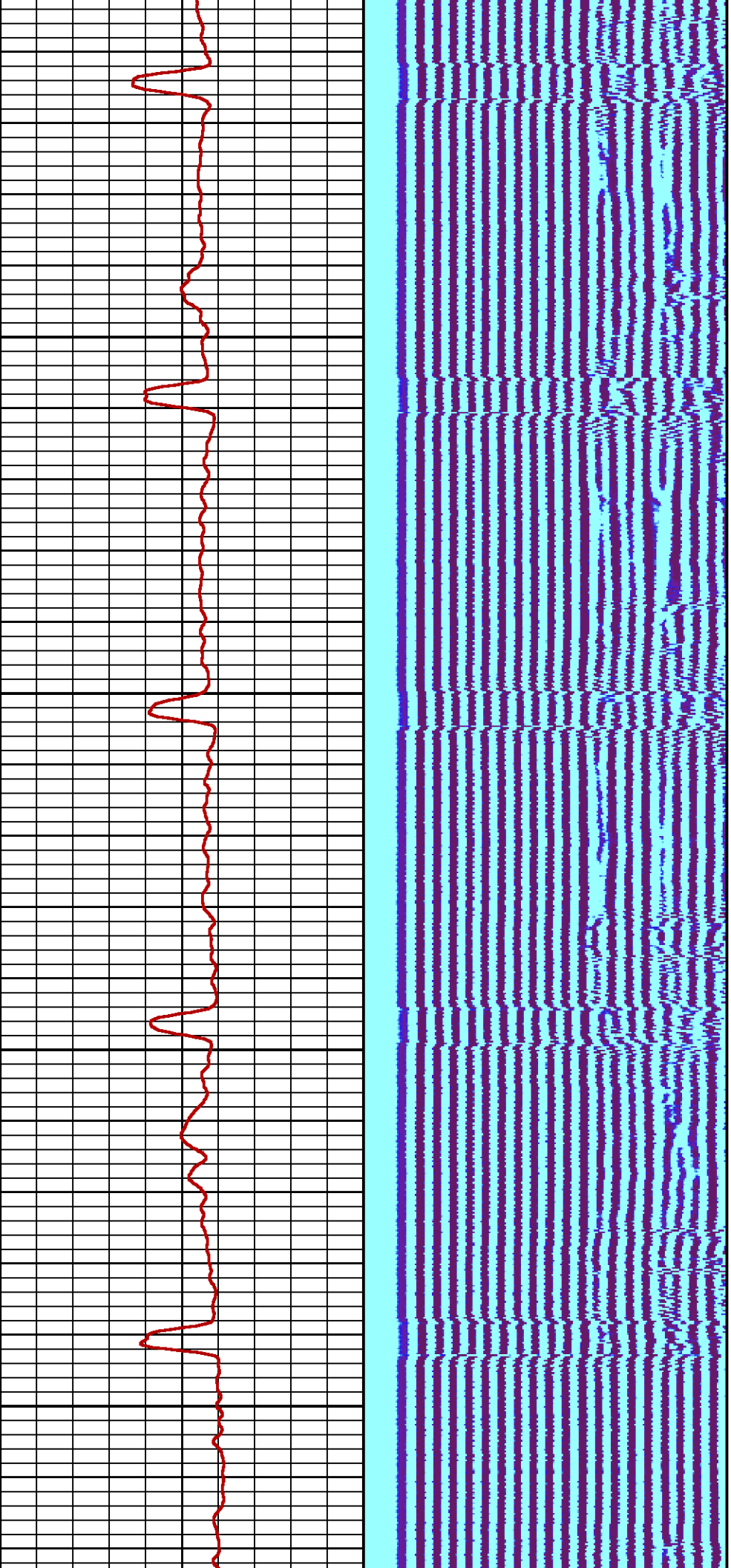
Data File 1 : F1 : BHUGHES-06627:C:\dat1a\093871\1341\_CBL\_MAIN.xtf  
Created On : Jan 8 09:12:18 2015  
Company : WPX ENERGY  
Well : FEDERAL PA 341-27  
Field : PARACHUTE  
File Interval : 19.25 - 8752 Feet  
OCT : n012g

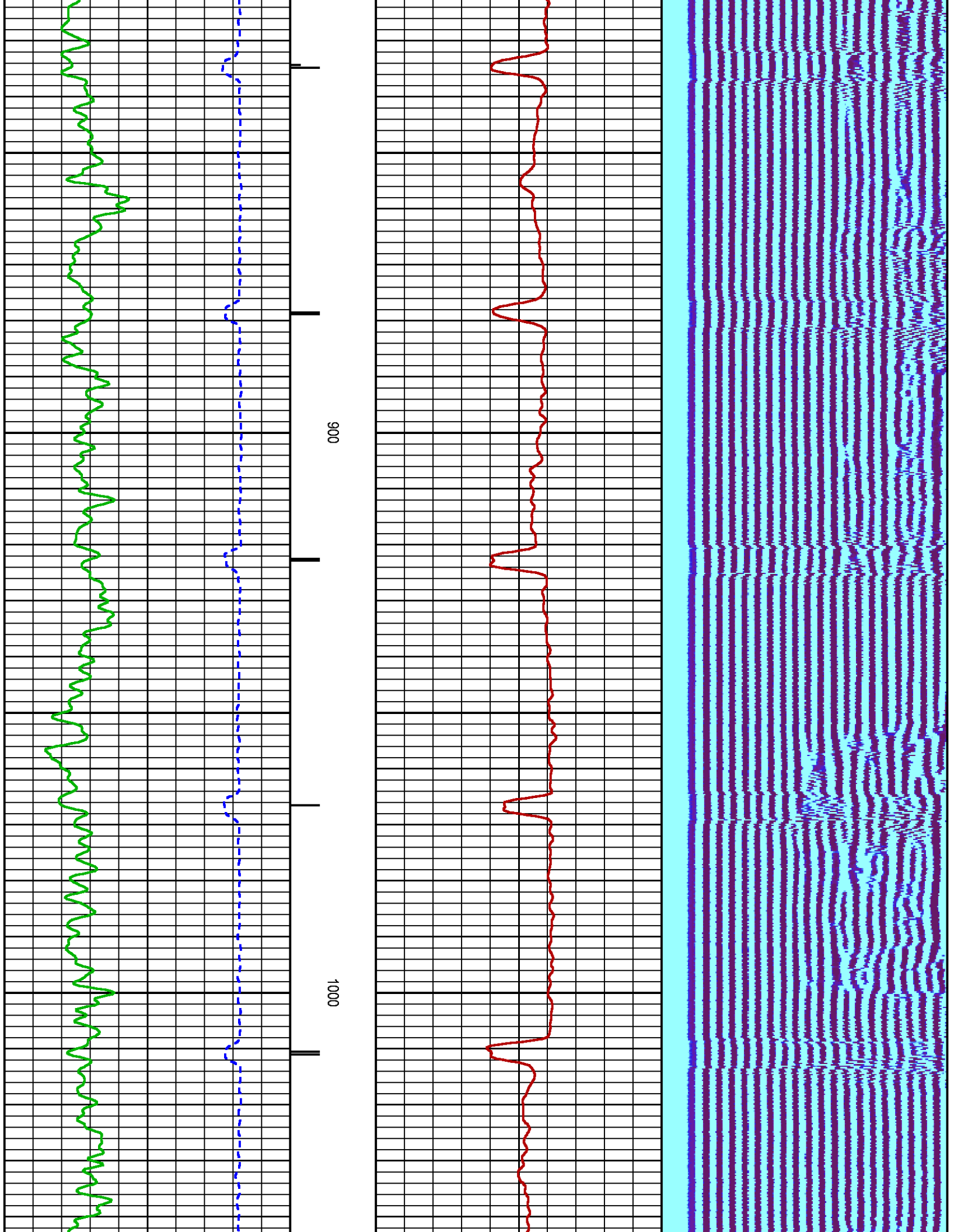


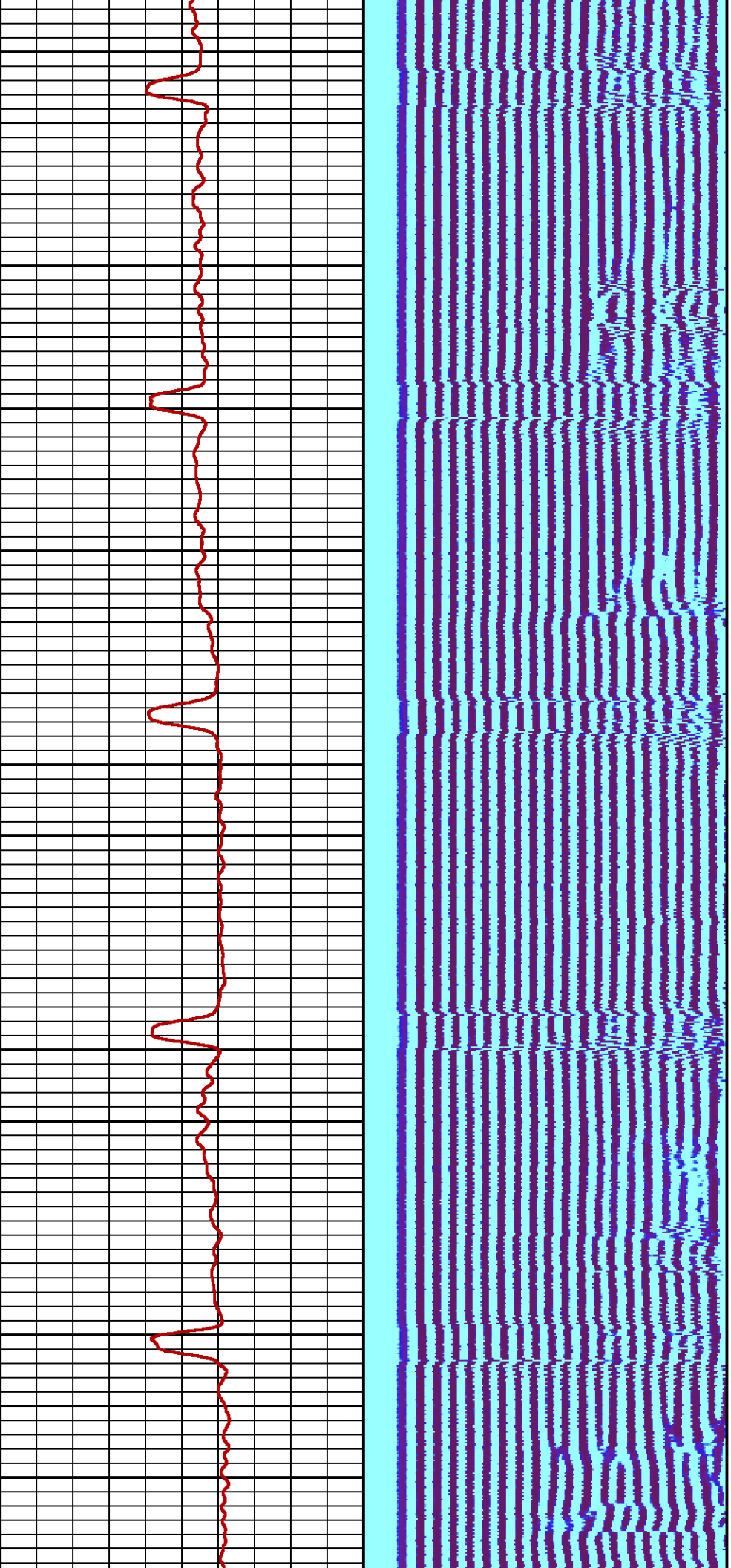






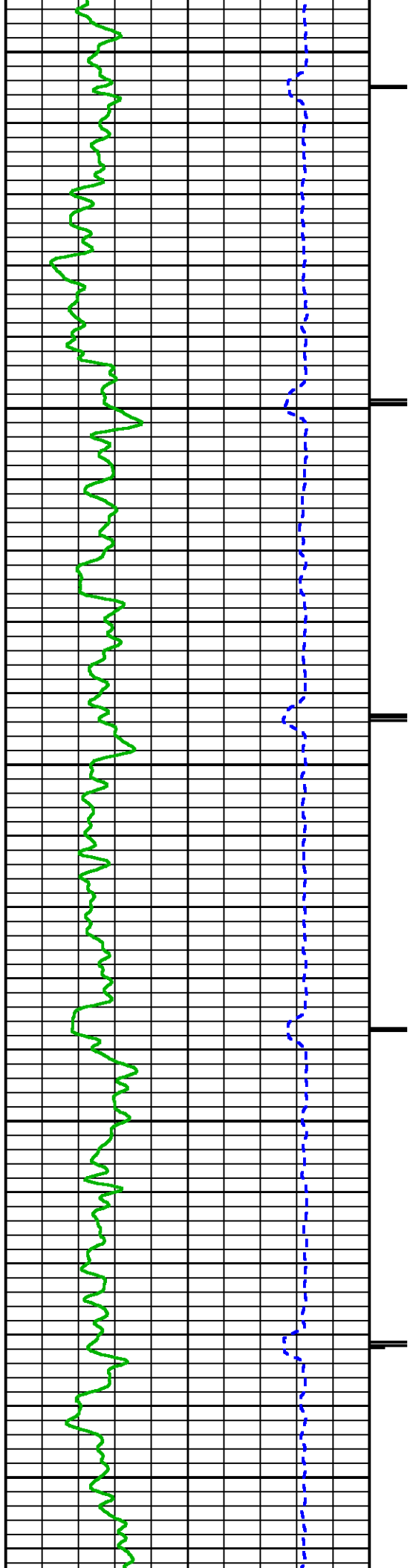




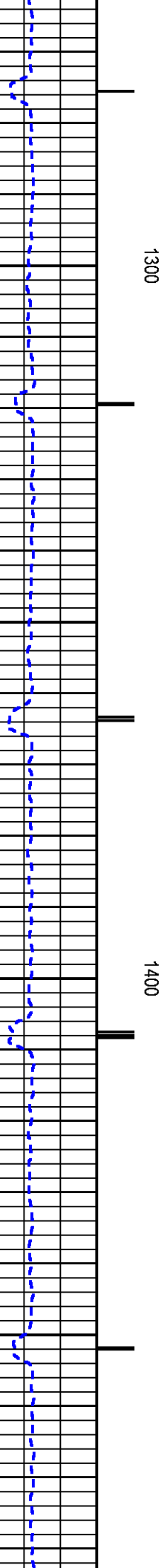
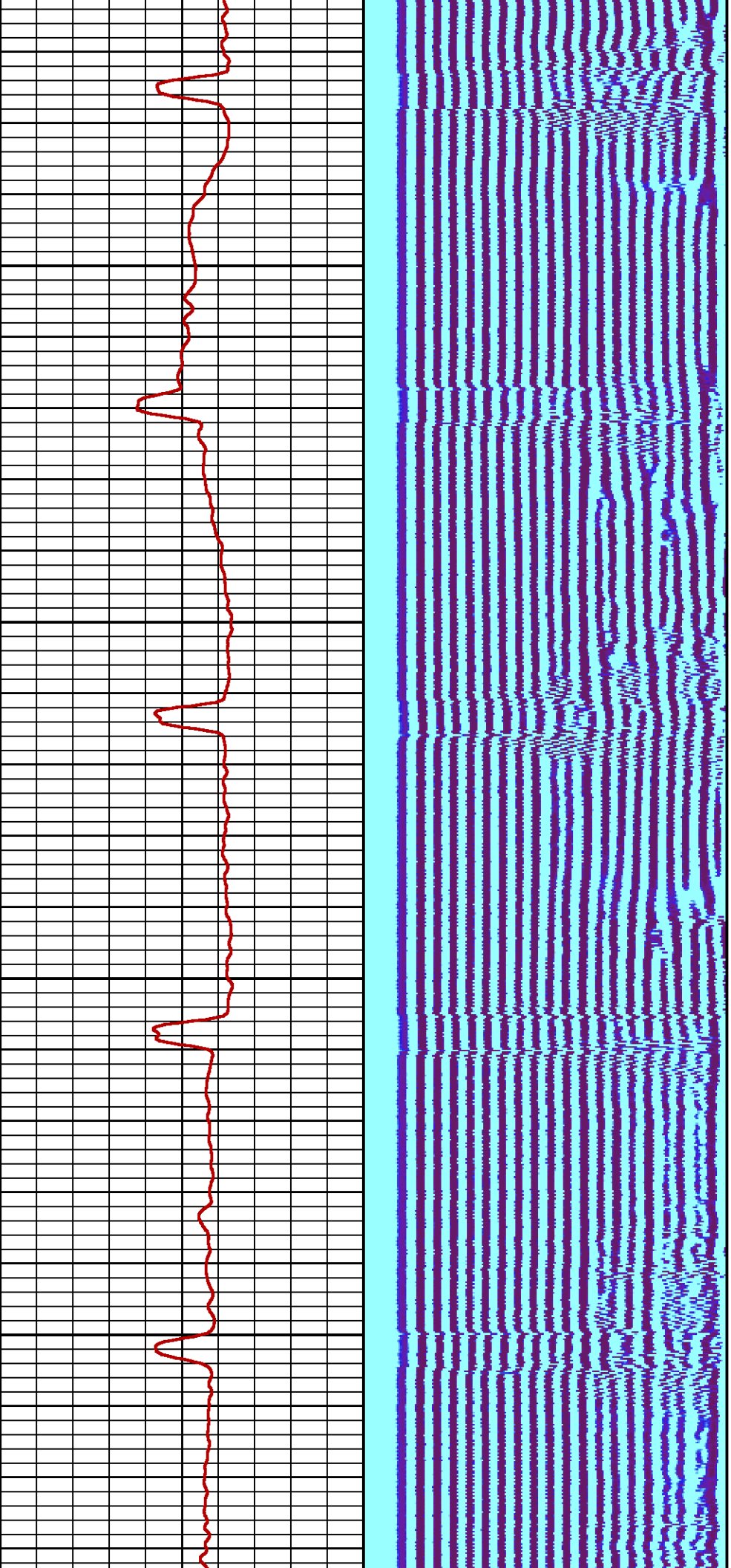


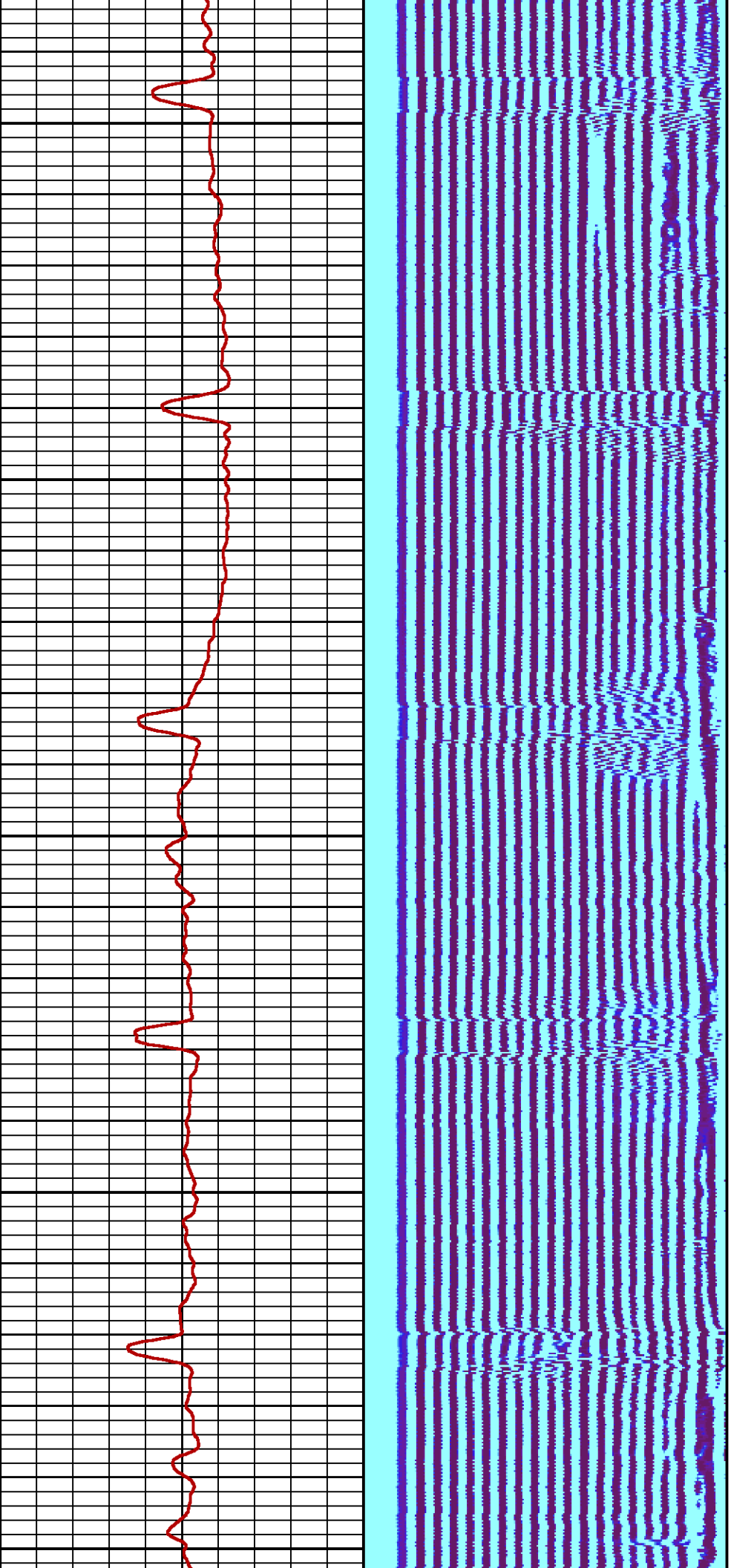
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1200





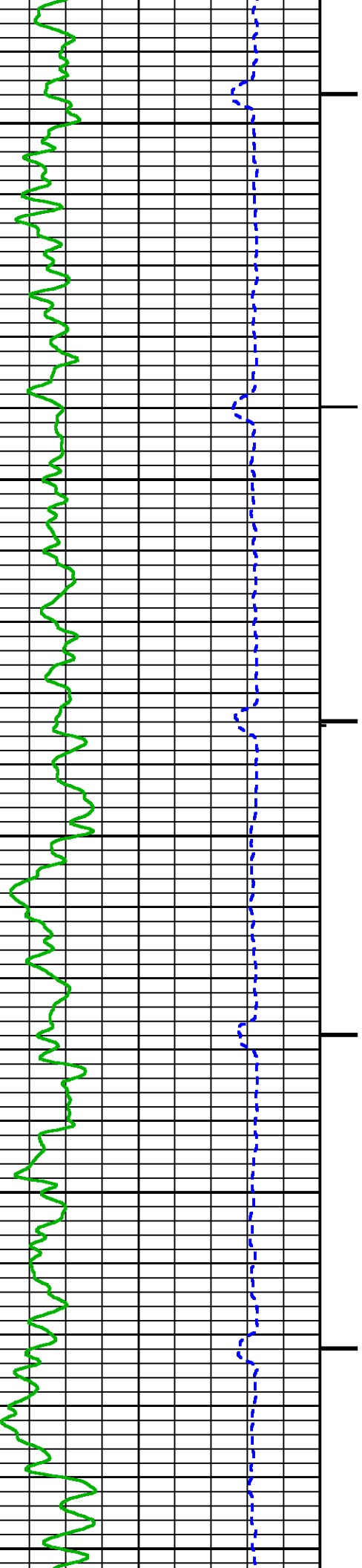


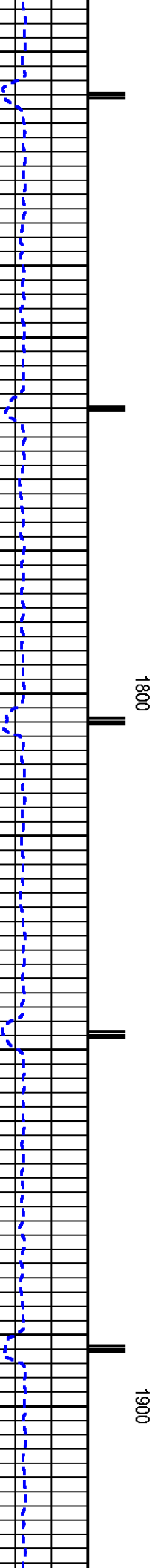
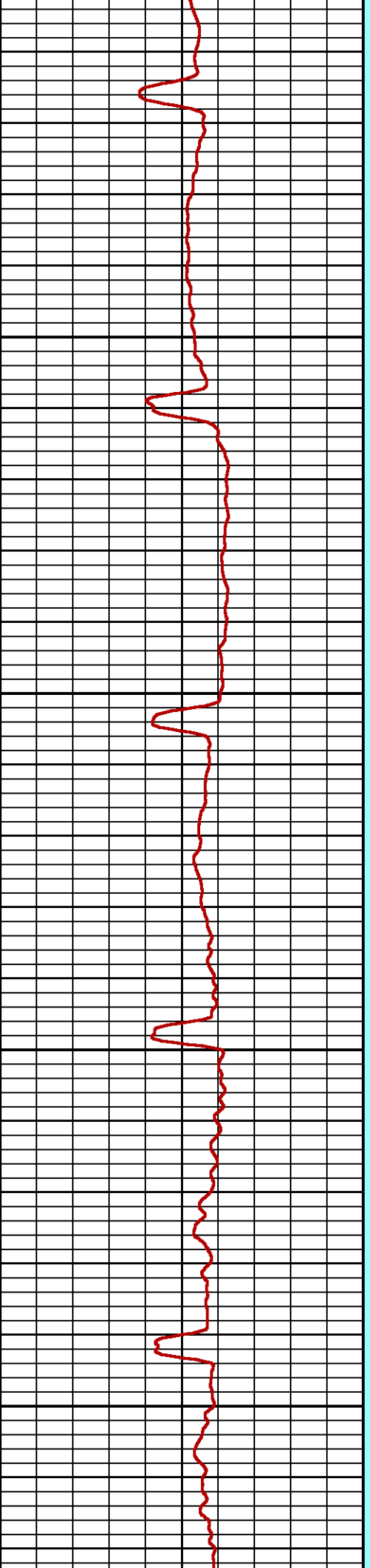
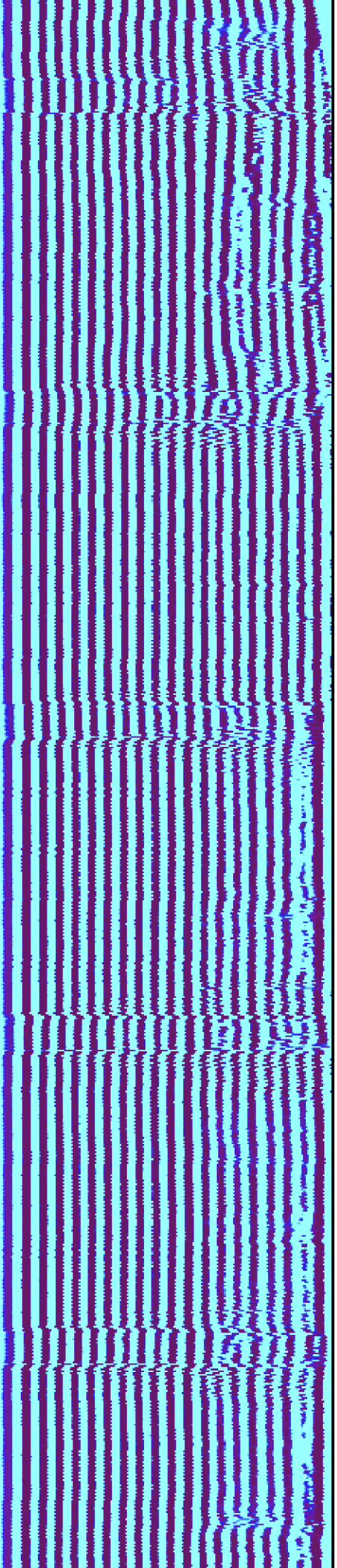


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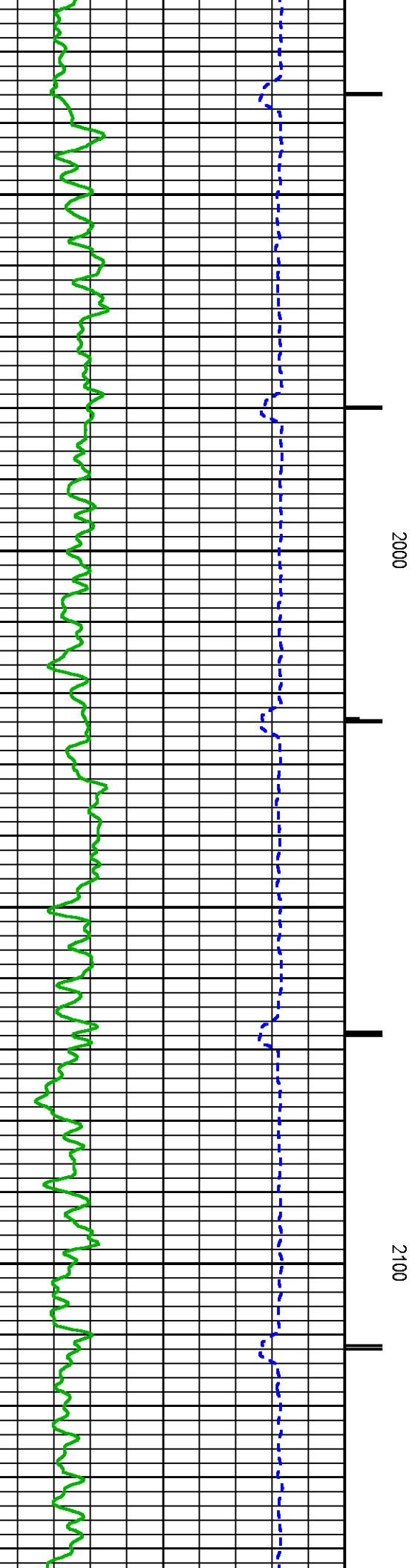
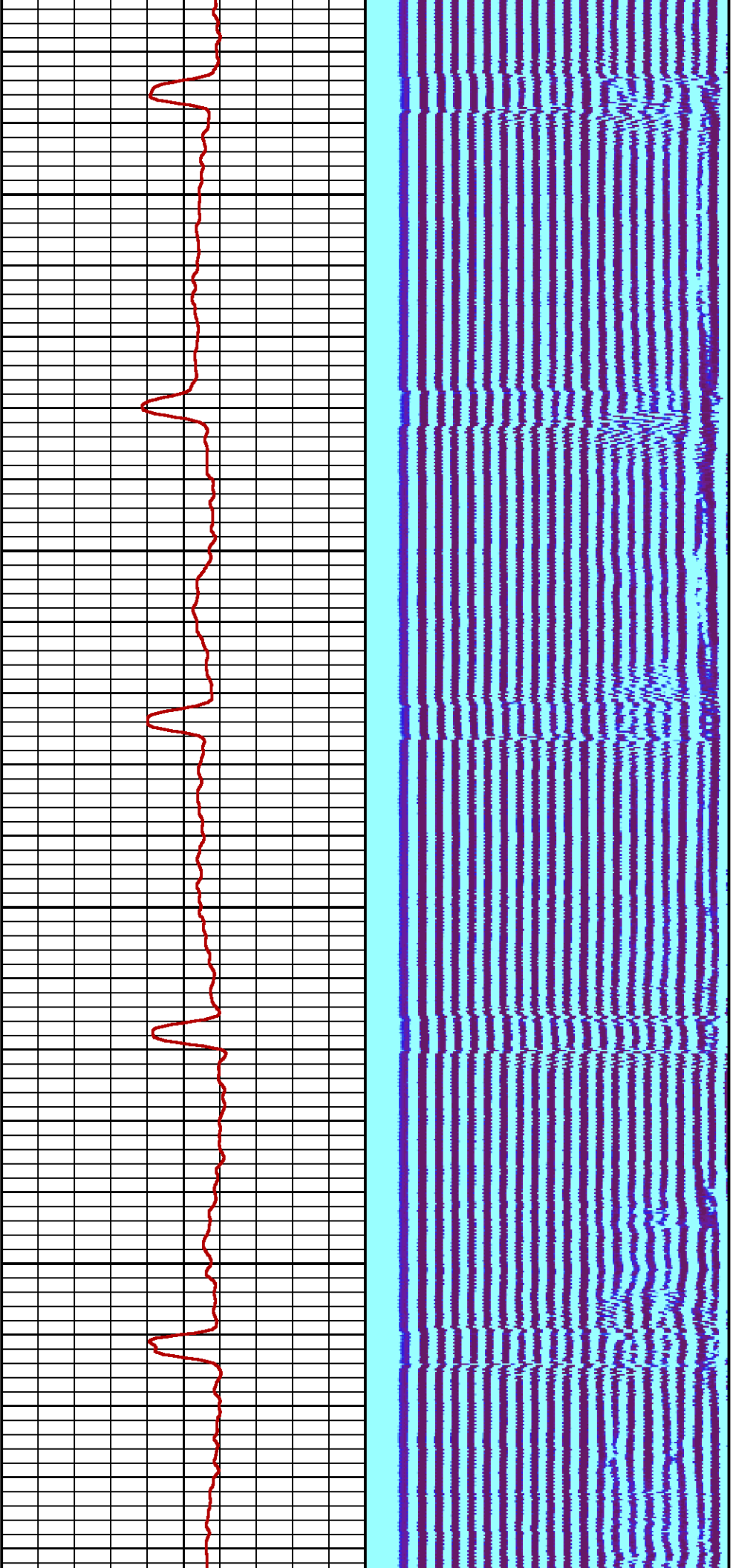
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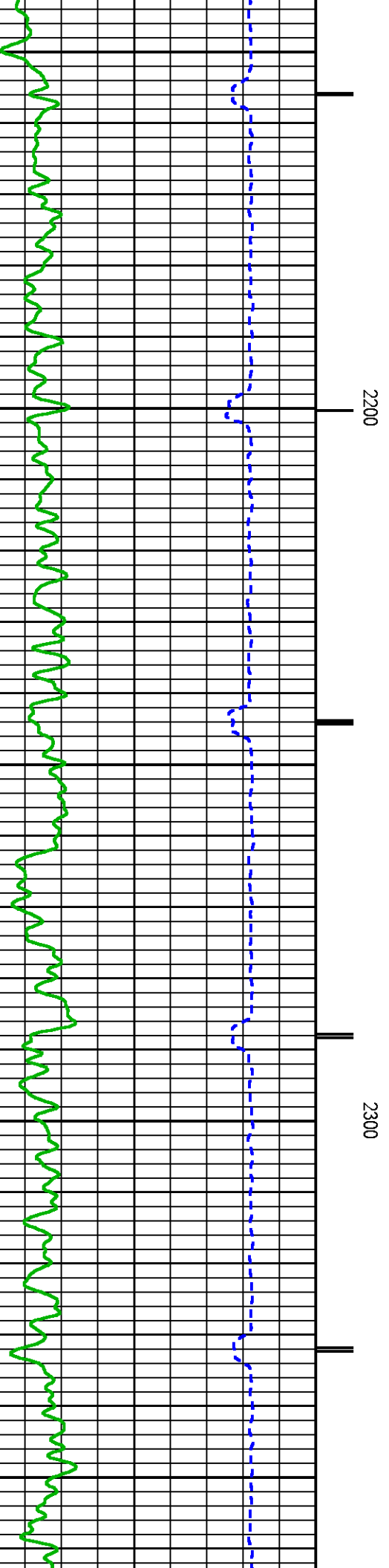
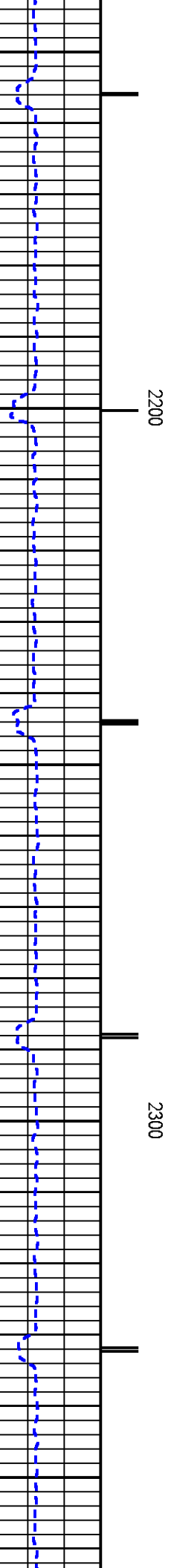
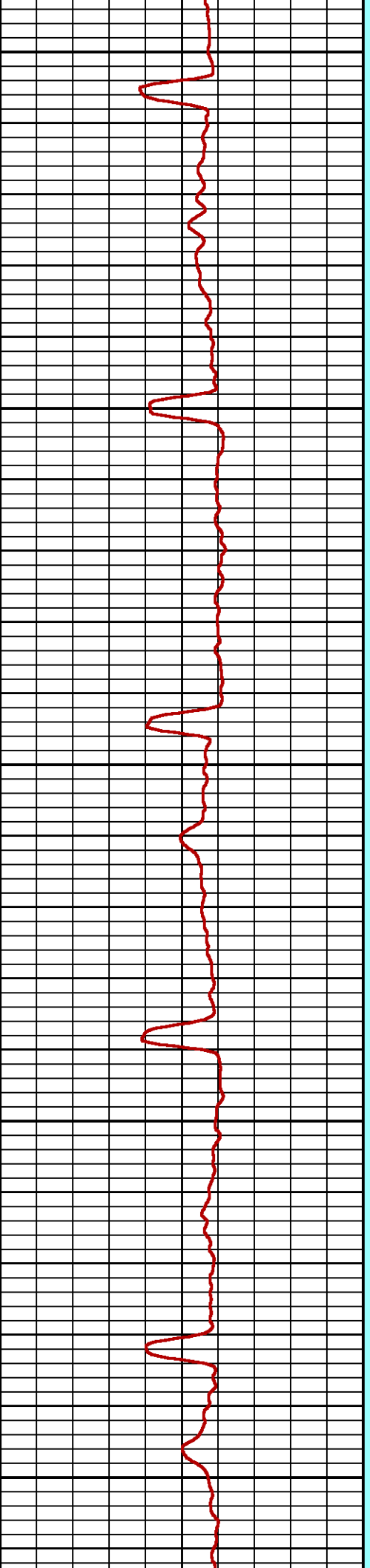
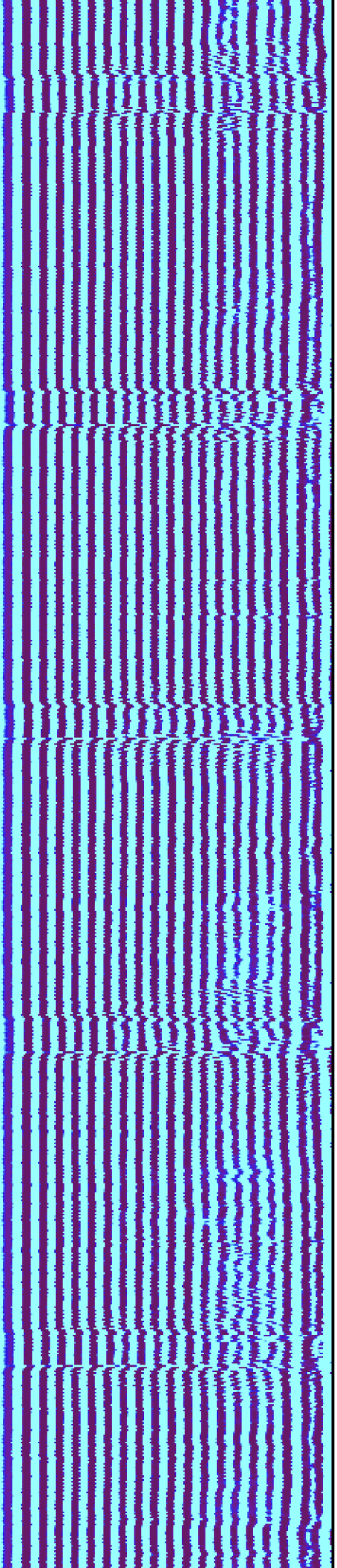
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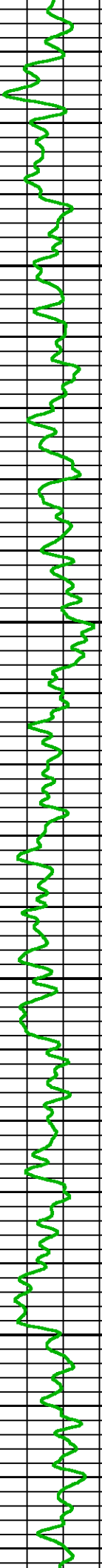
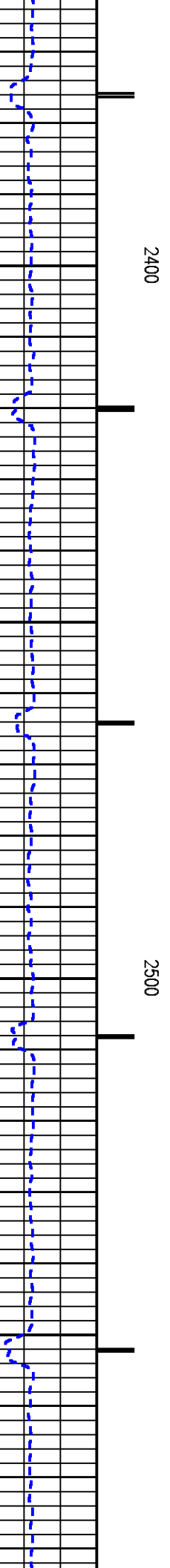
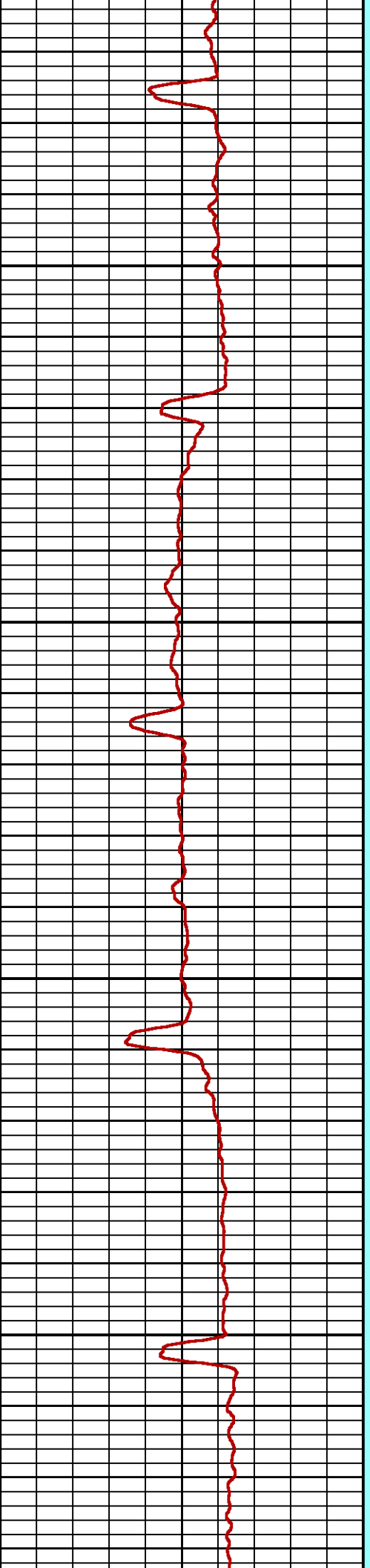
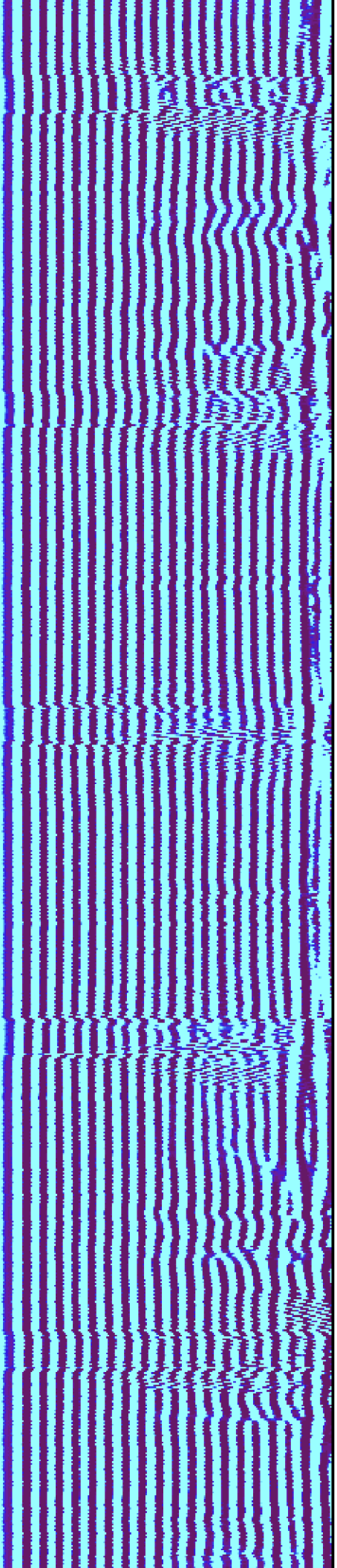


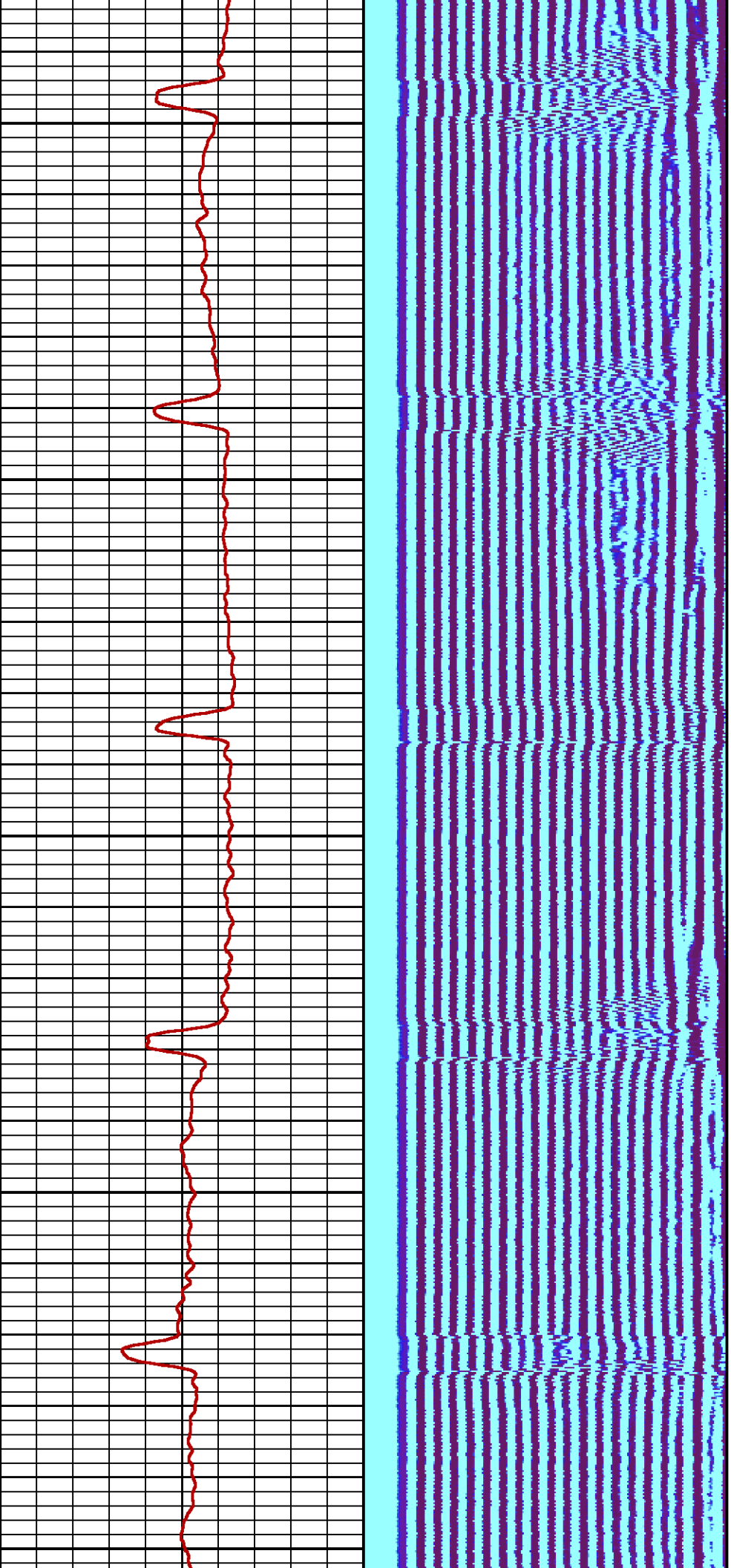








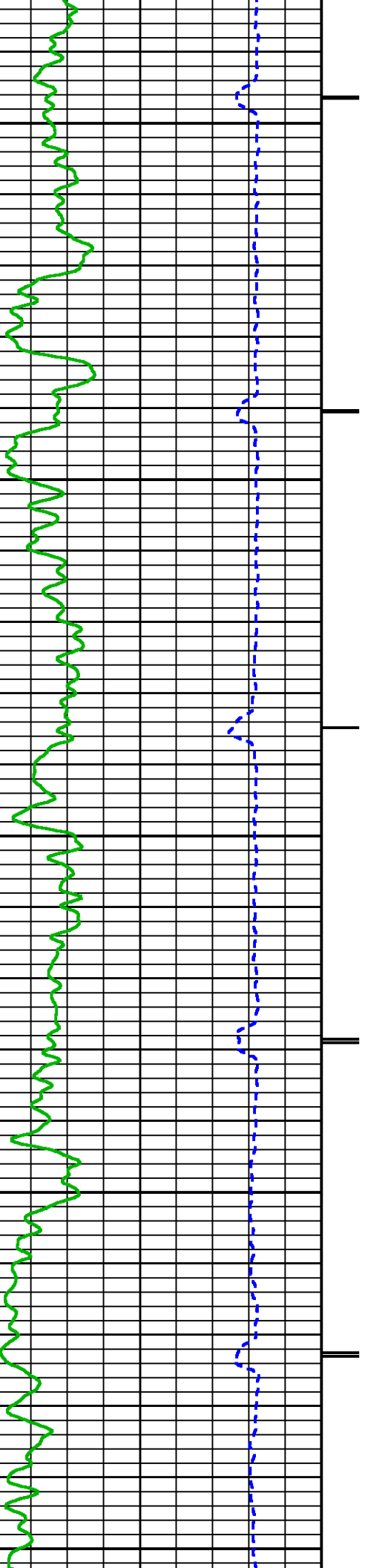




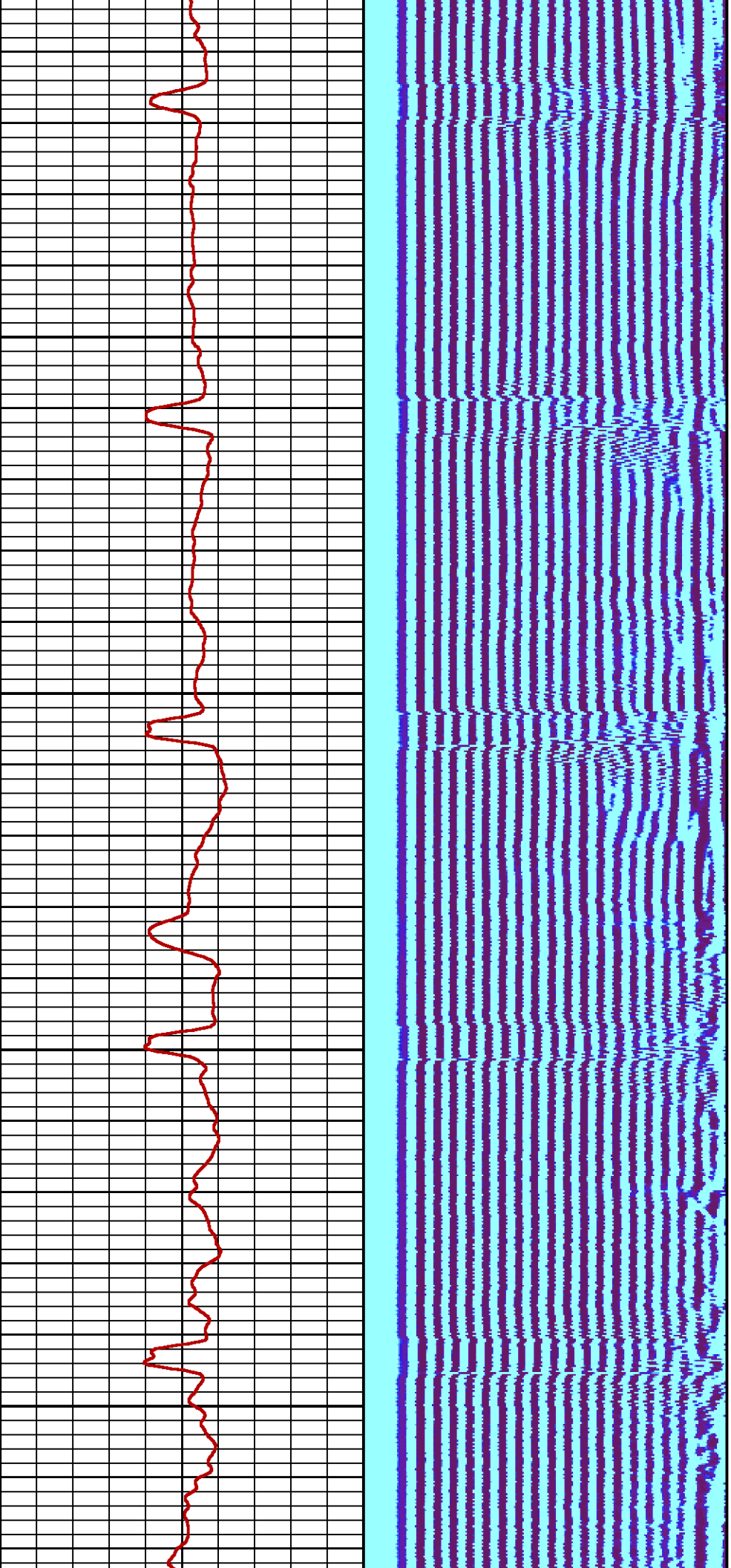
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2700

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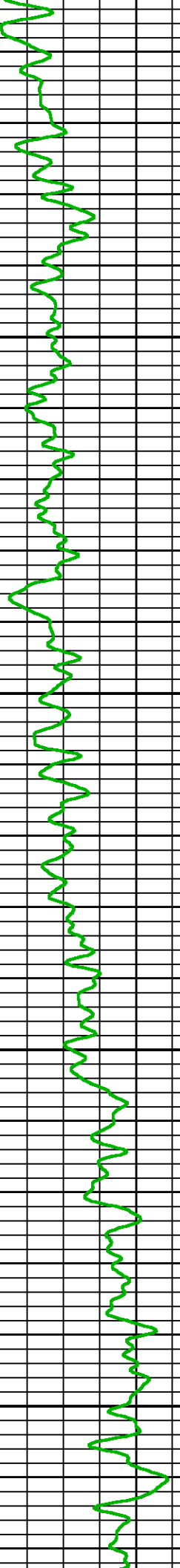
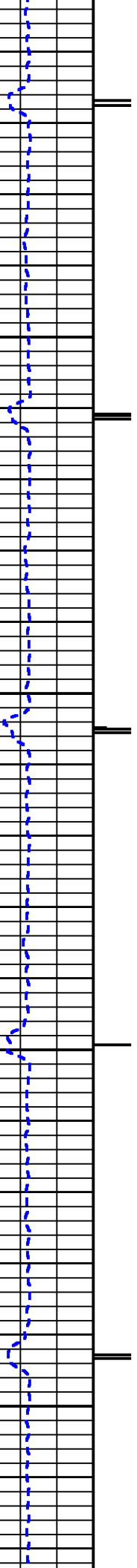


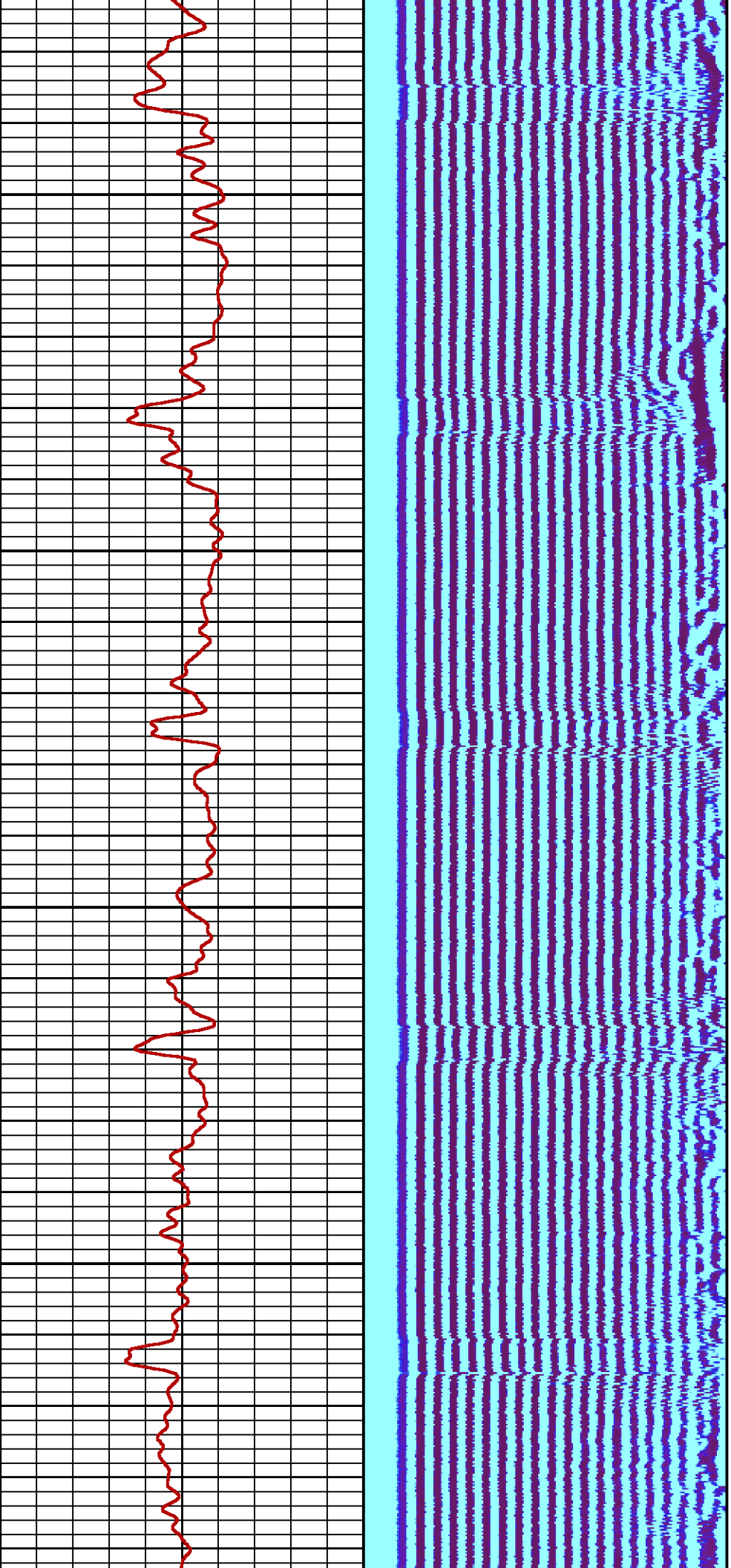




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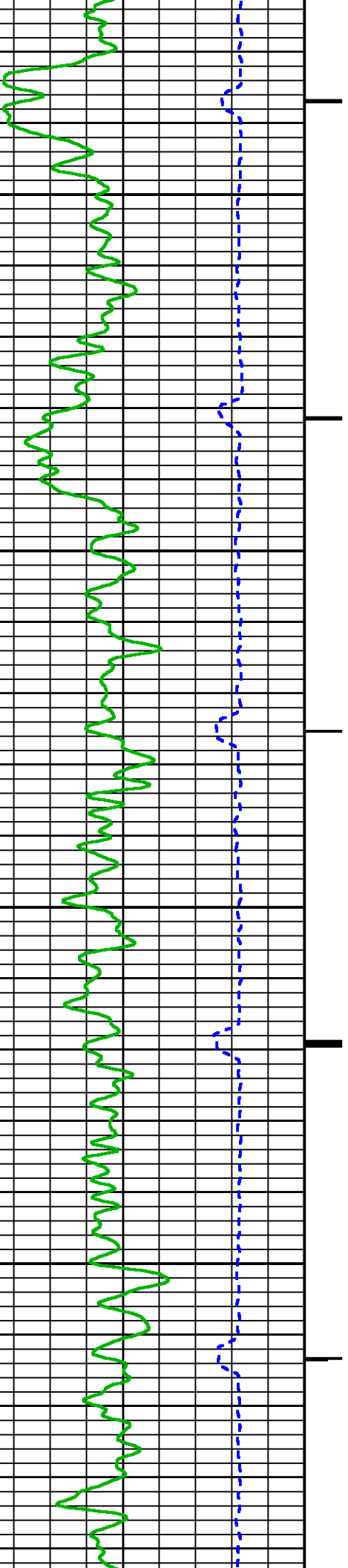
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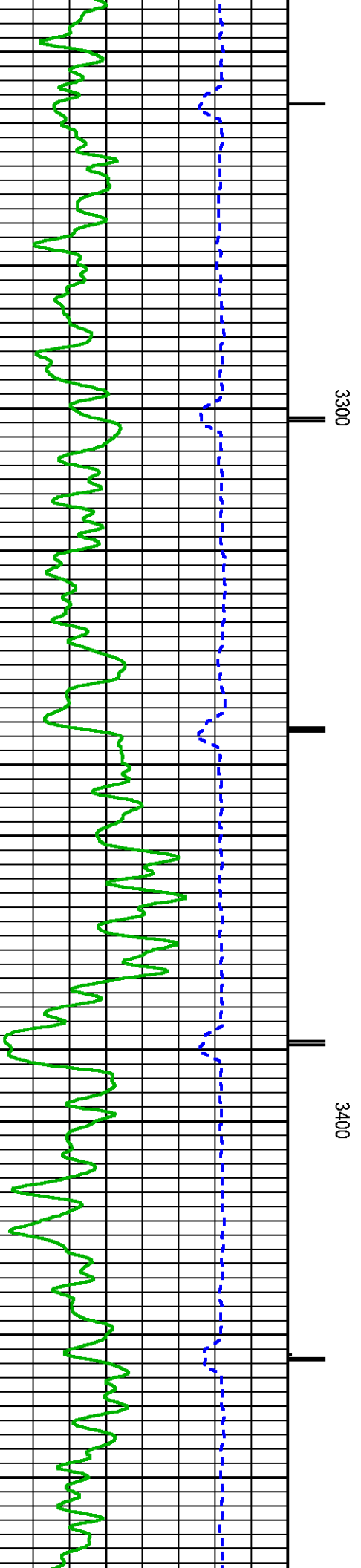
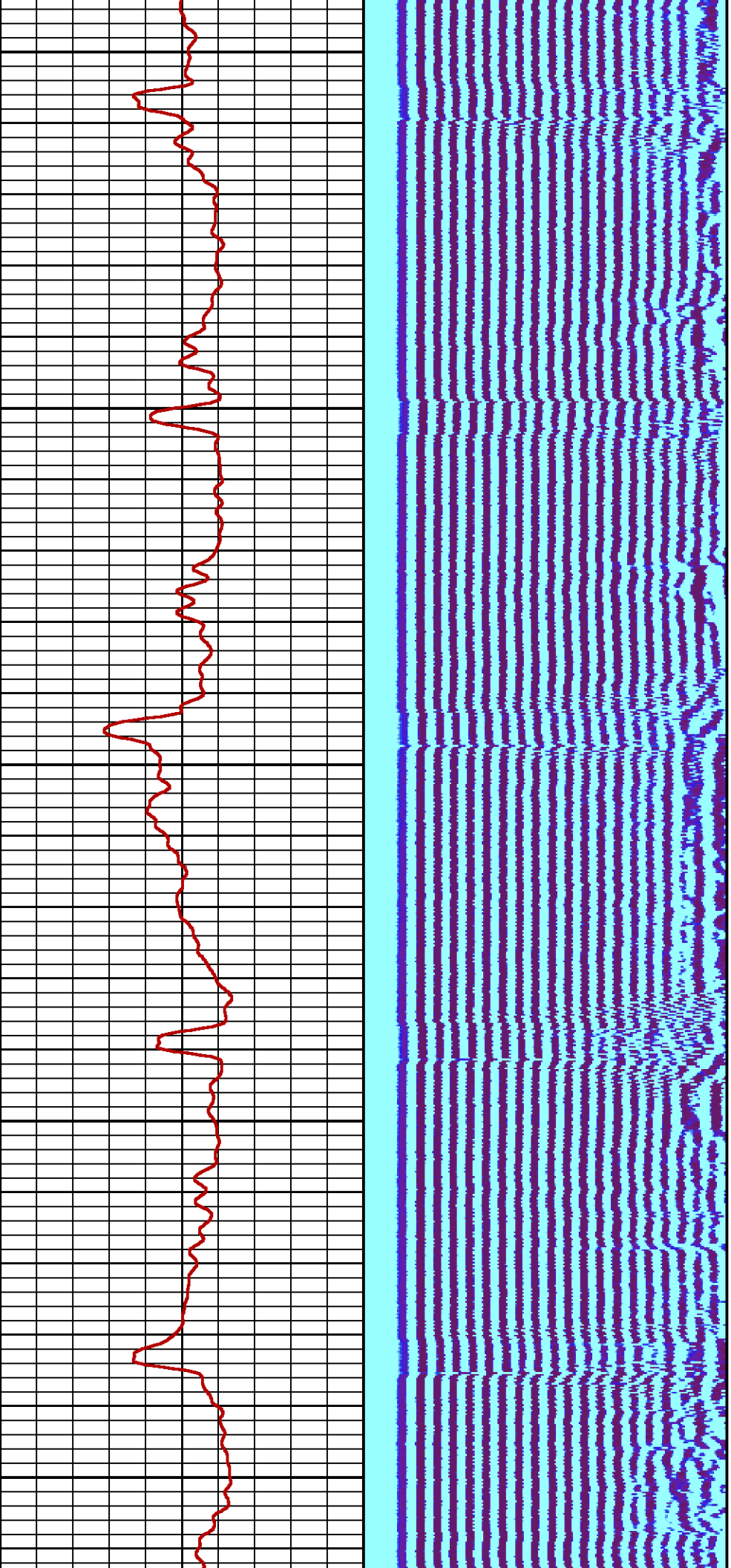




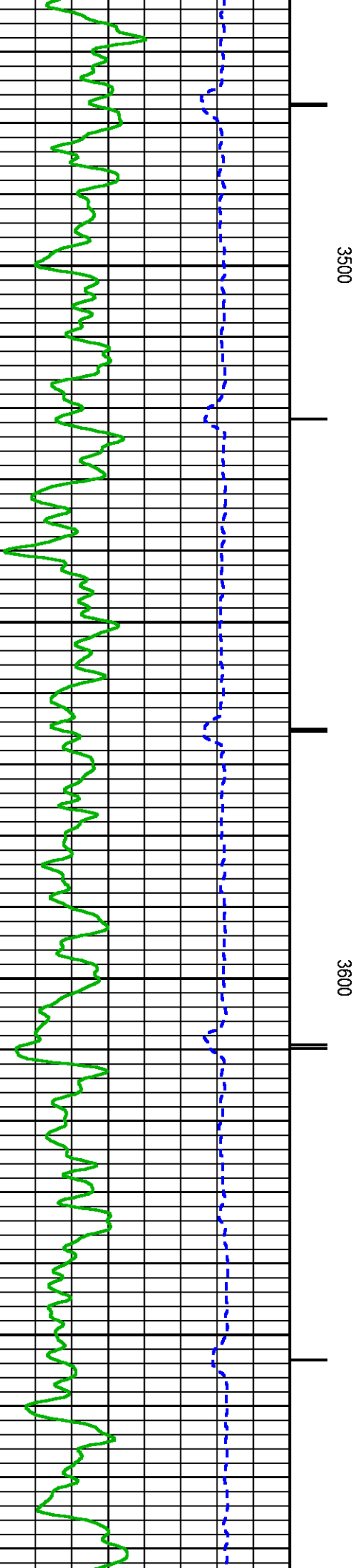
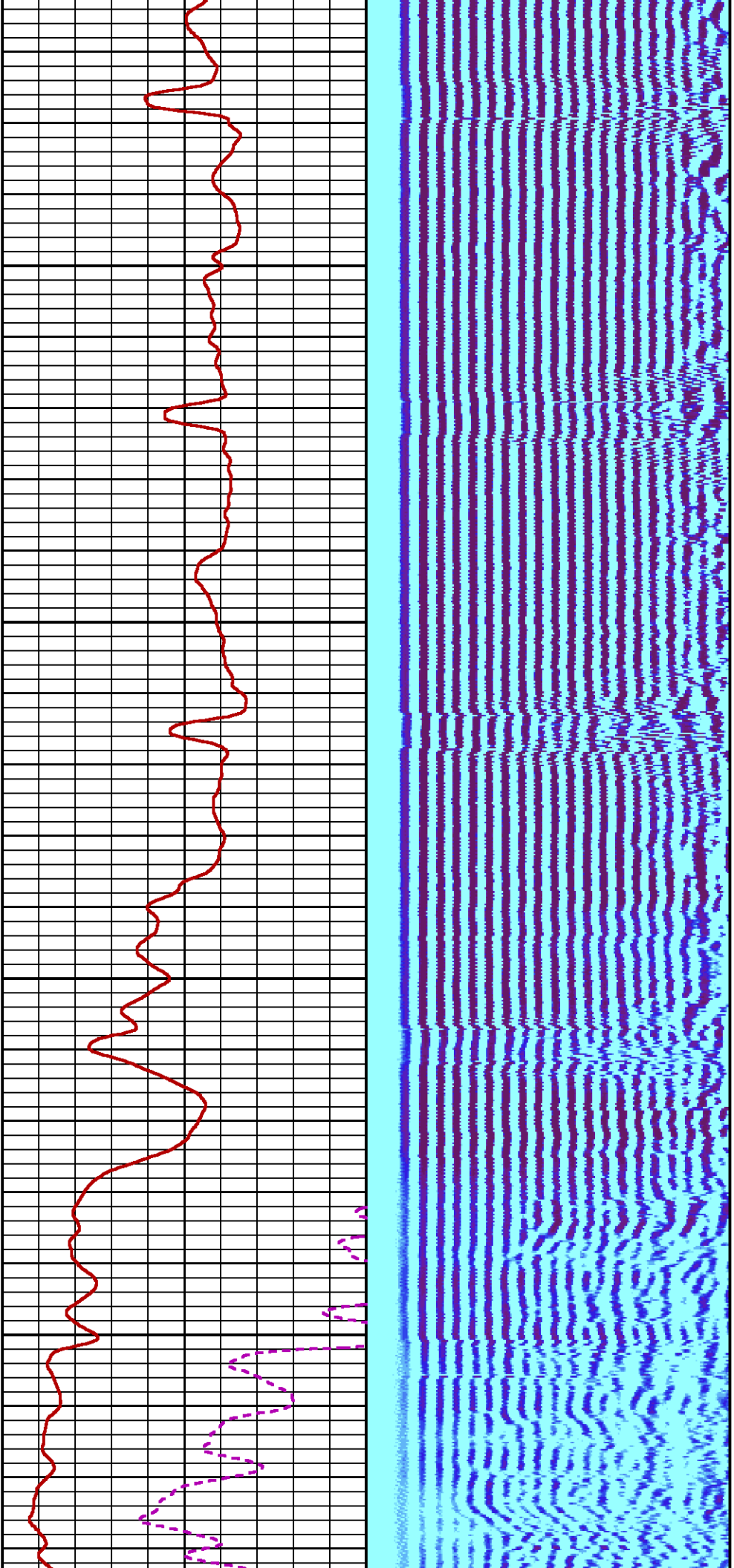
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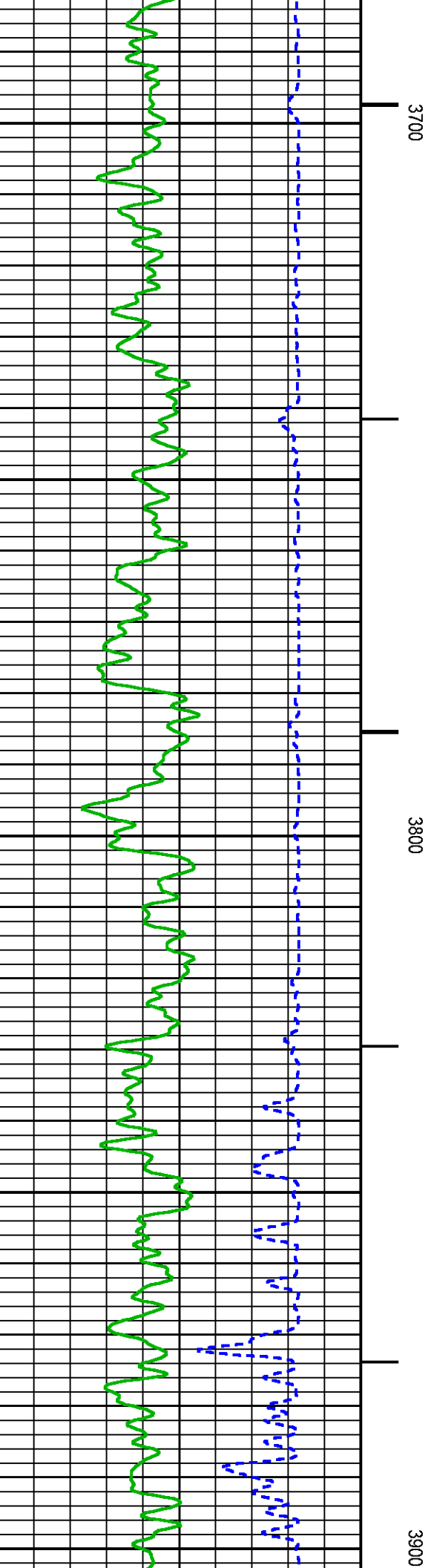
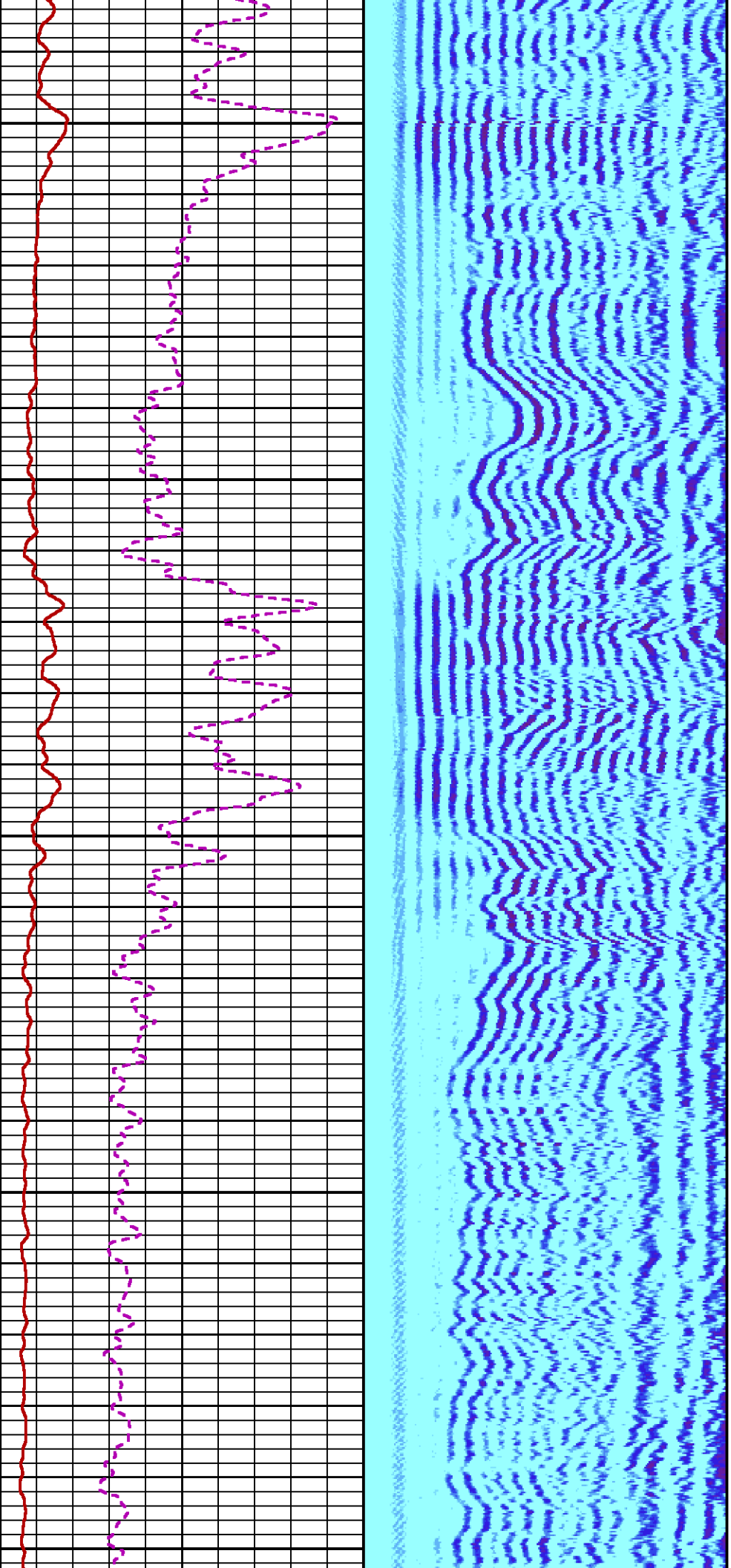
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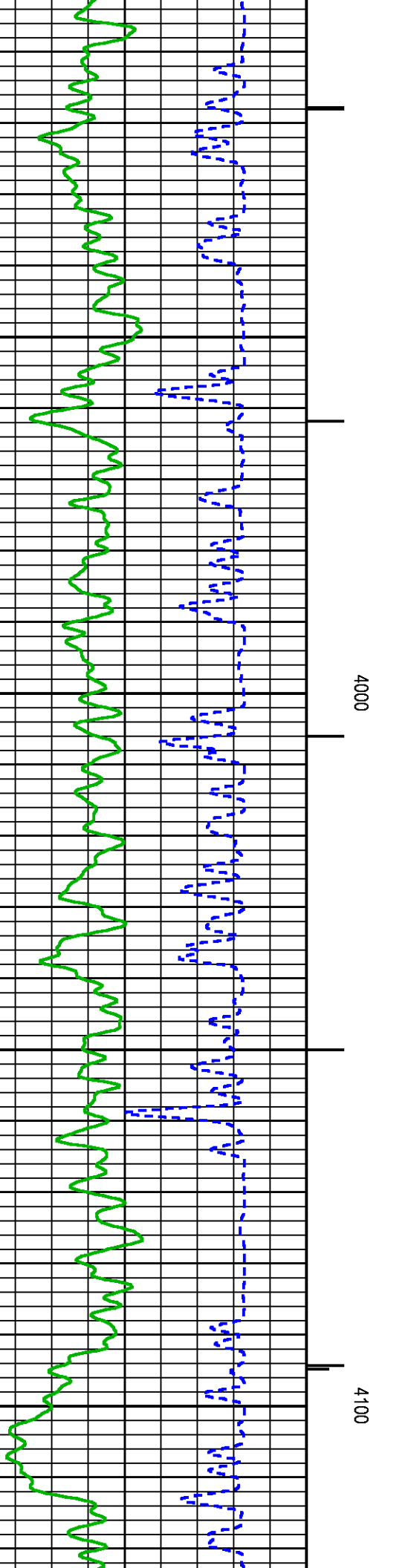
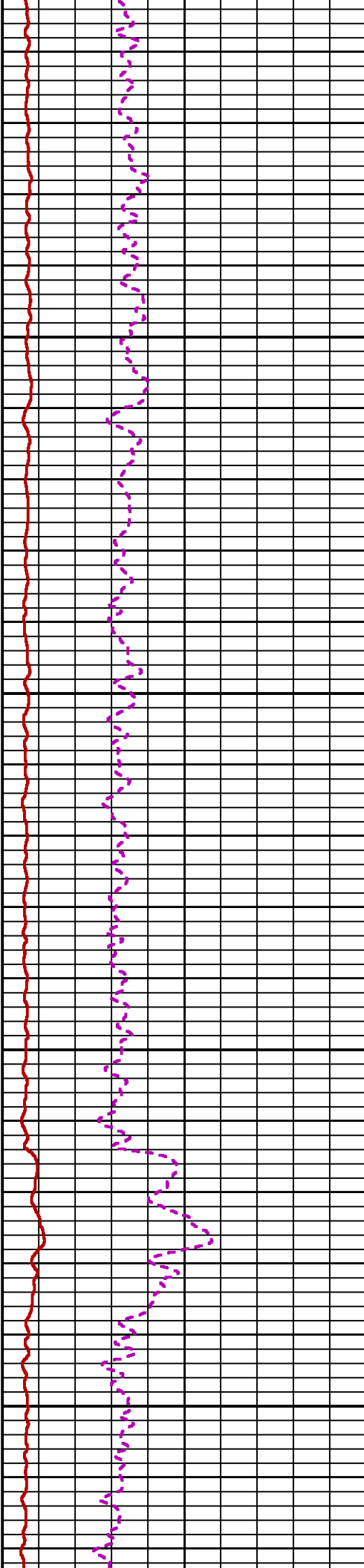
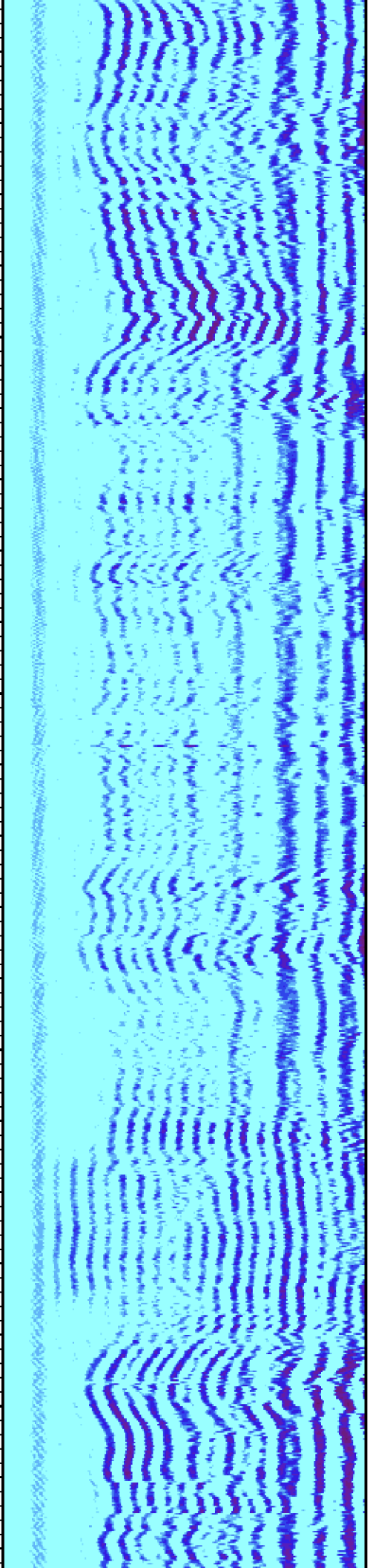


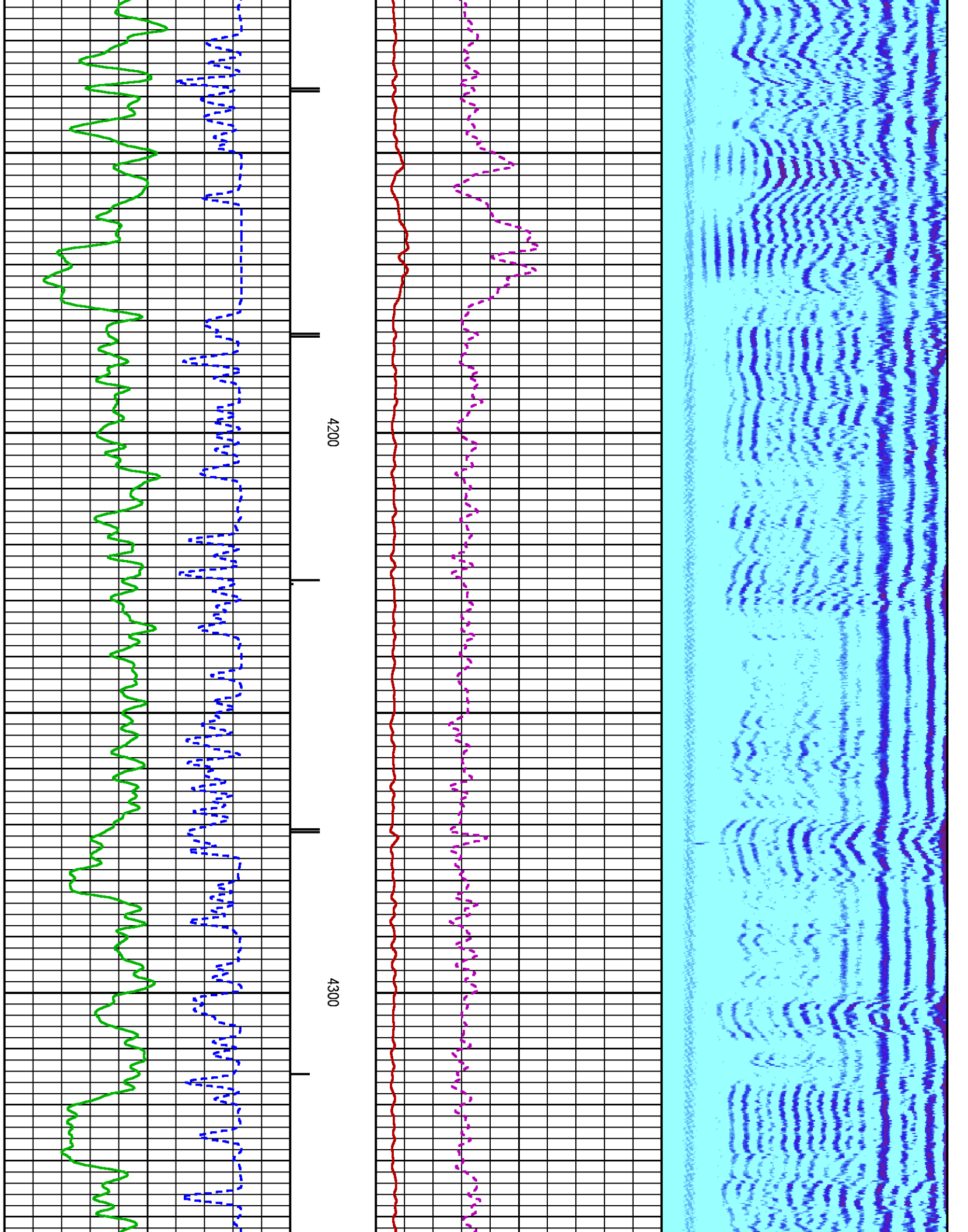




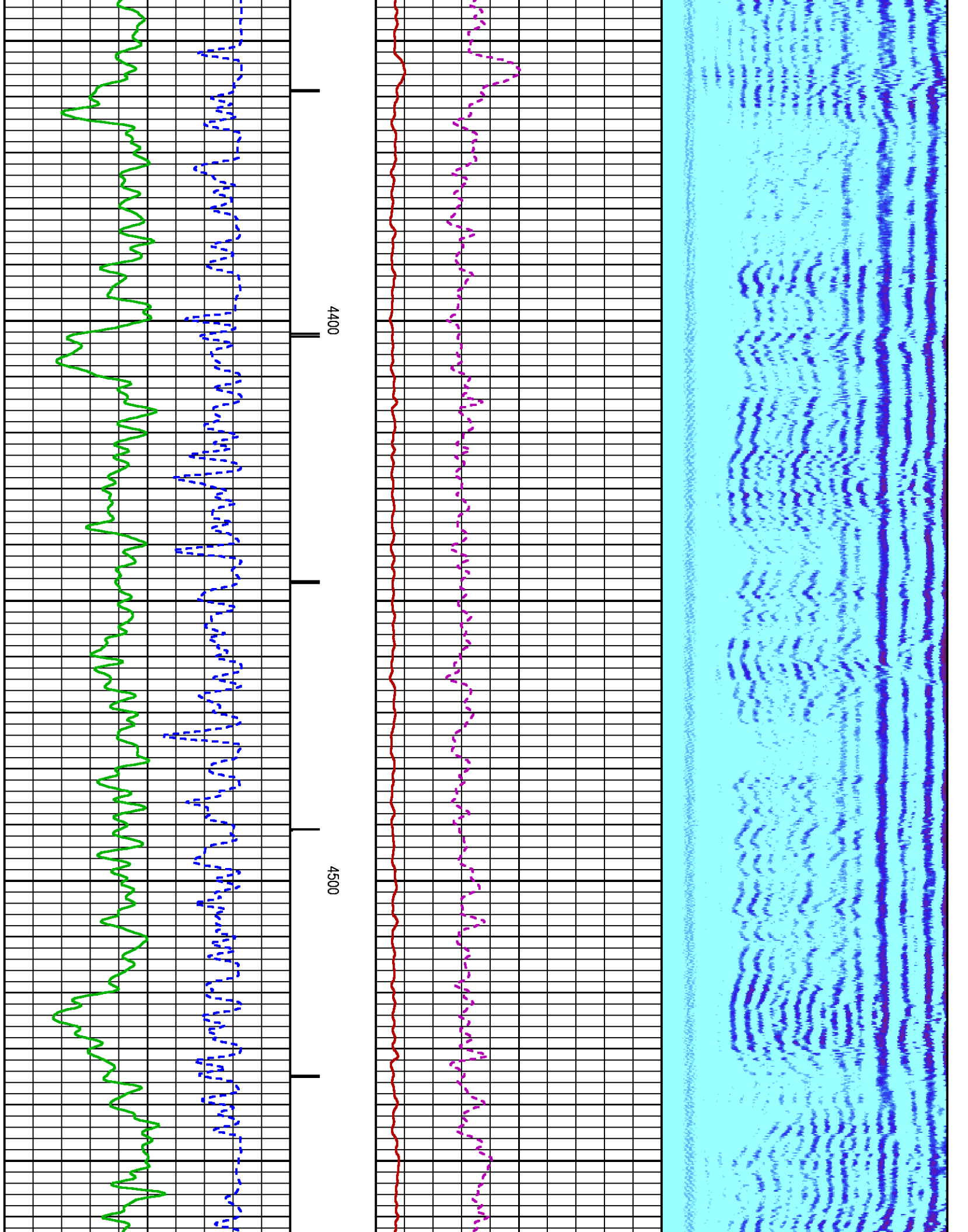


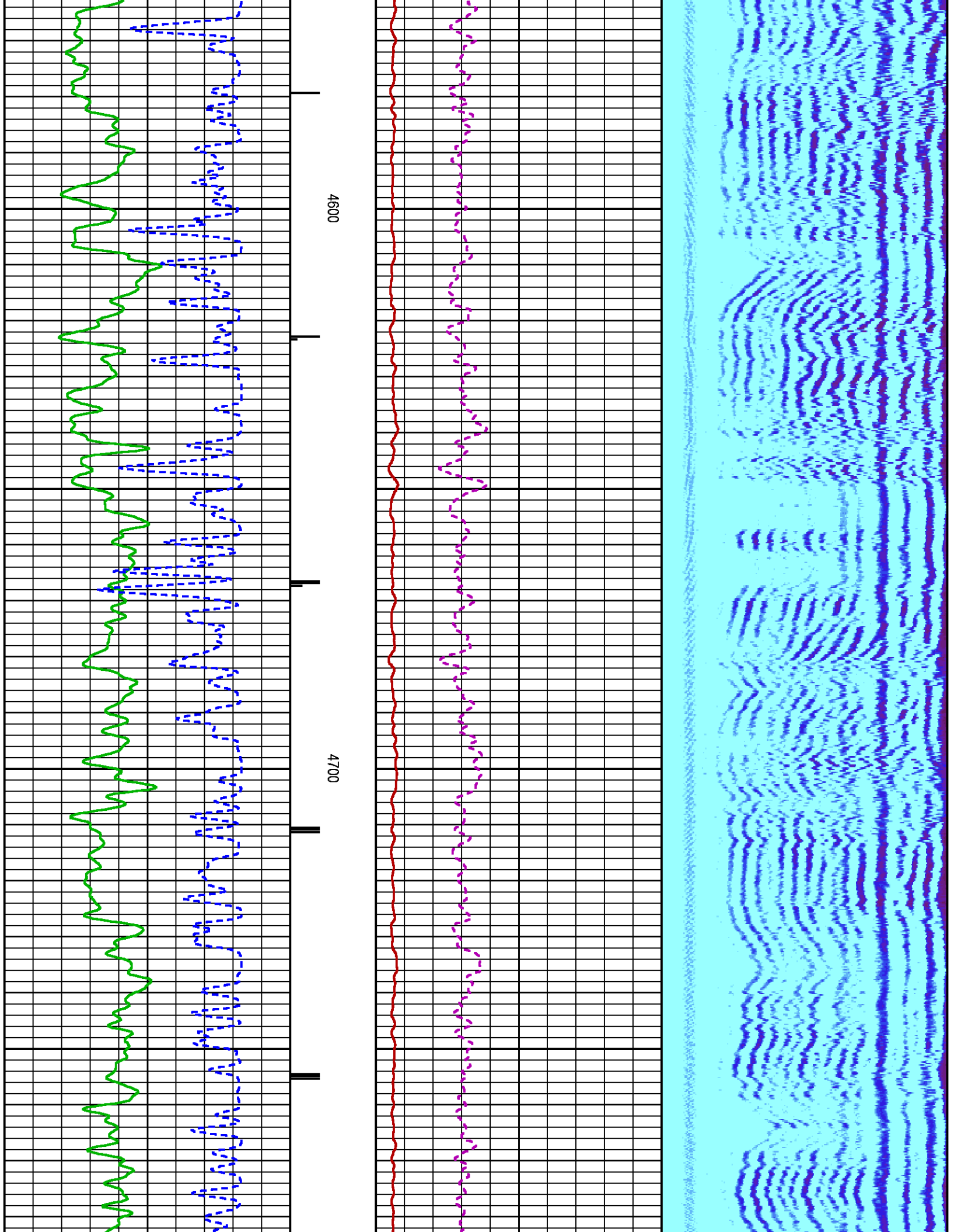


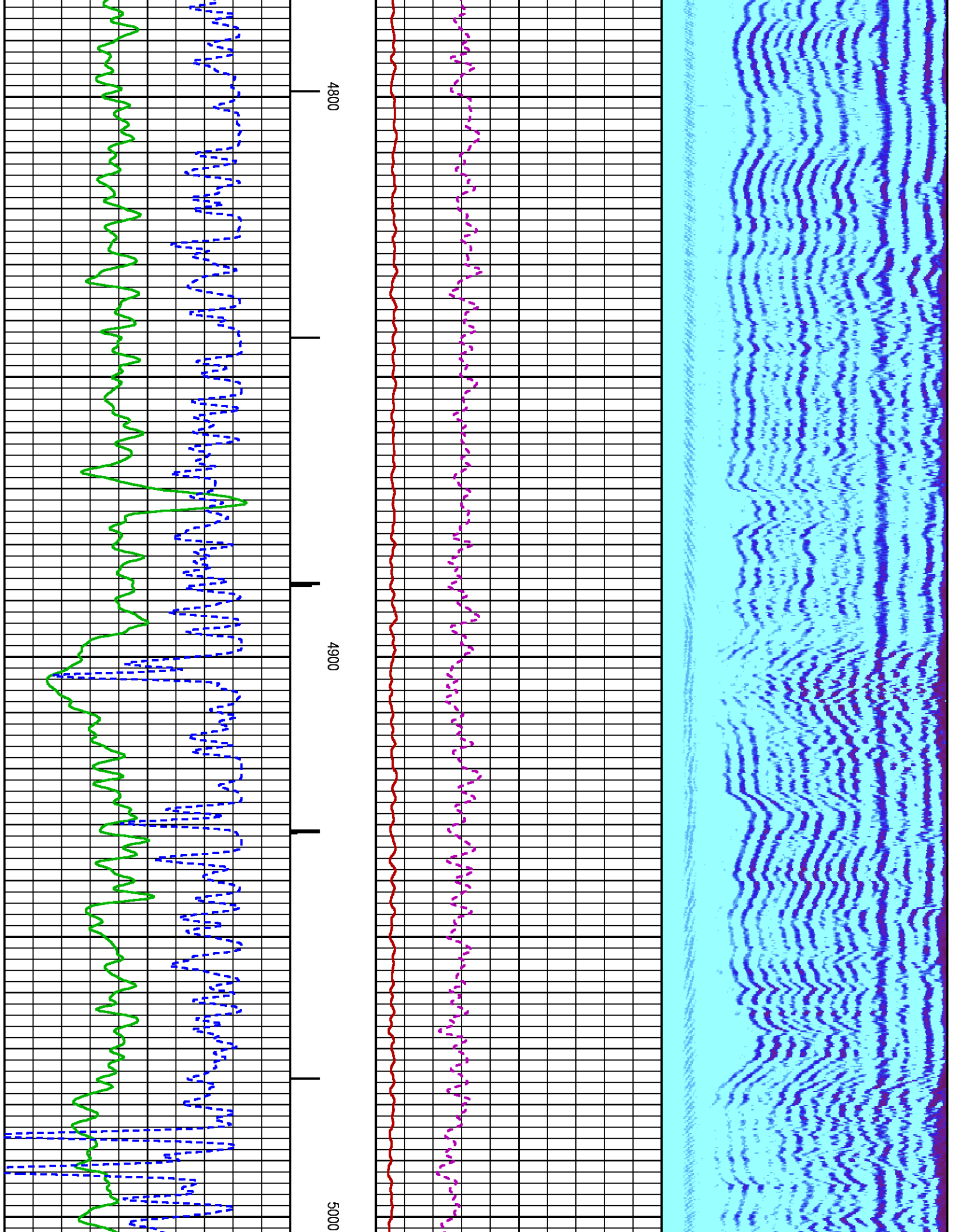




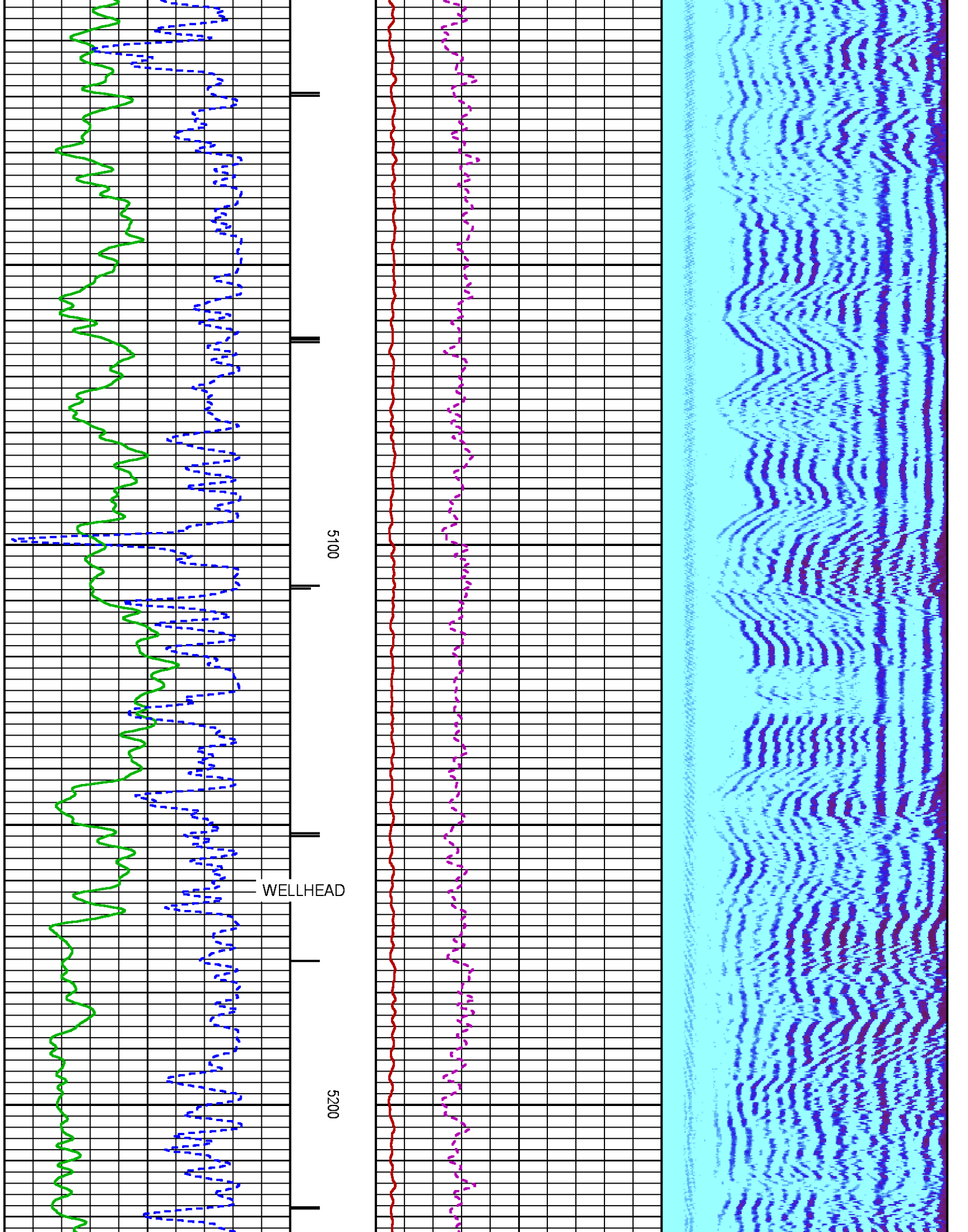


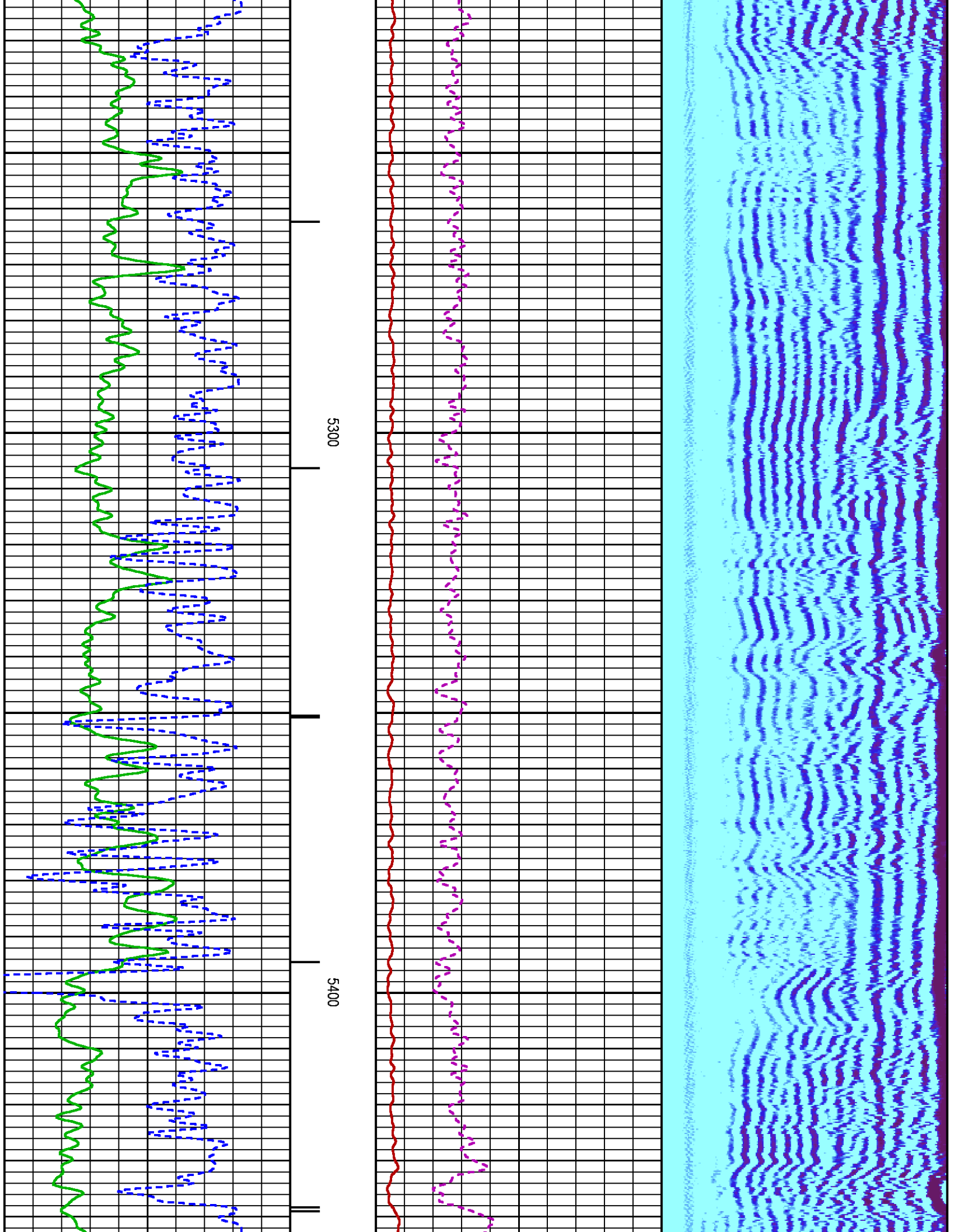


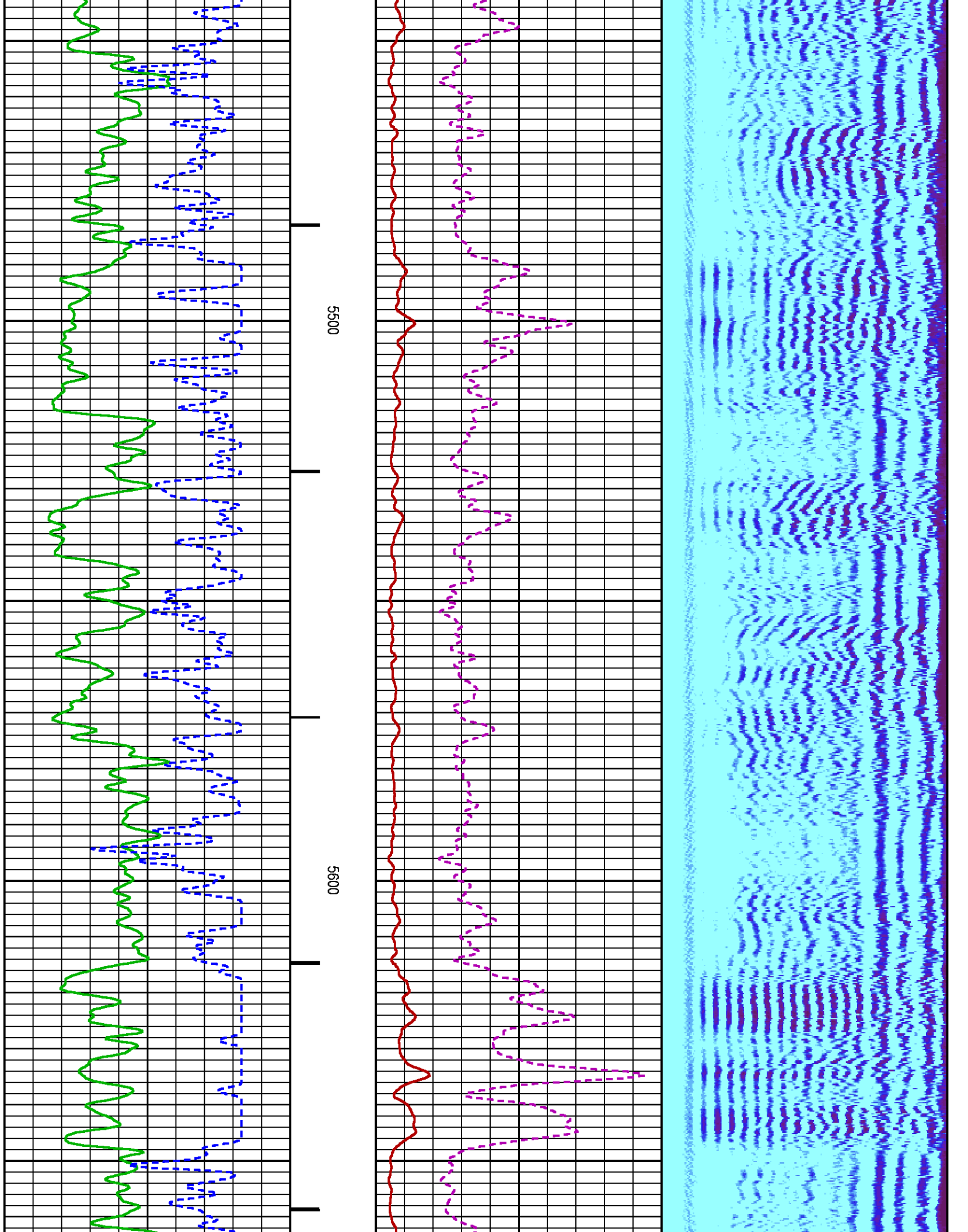


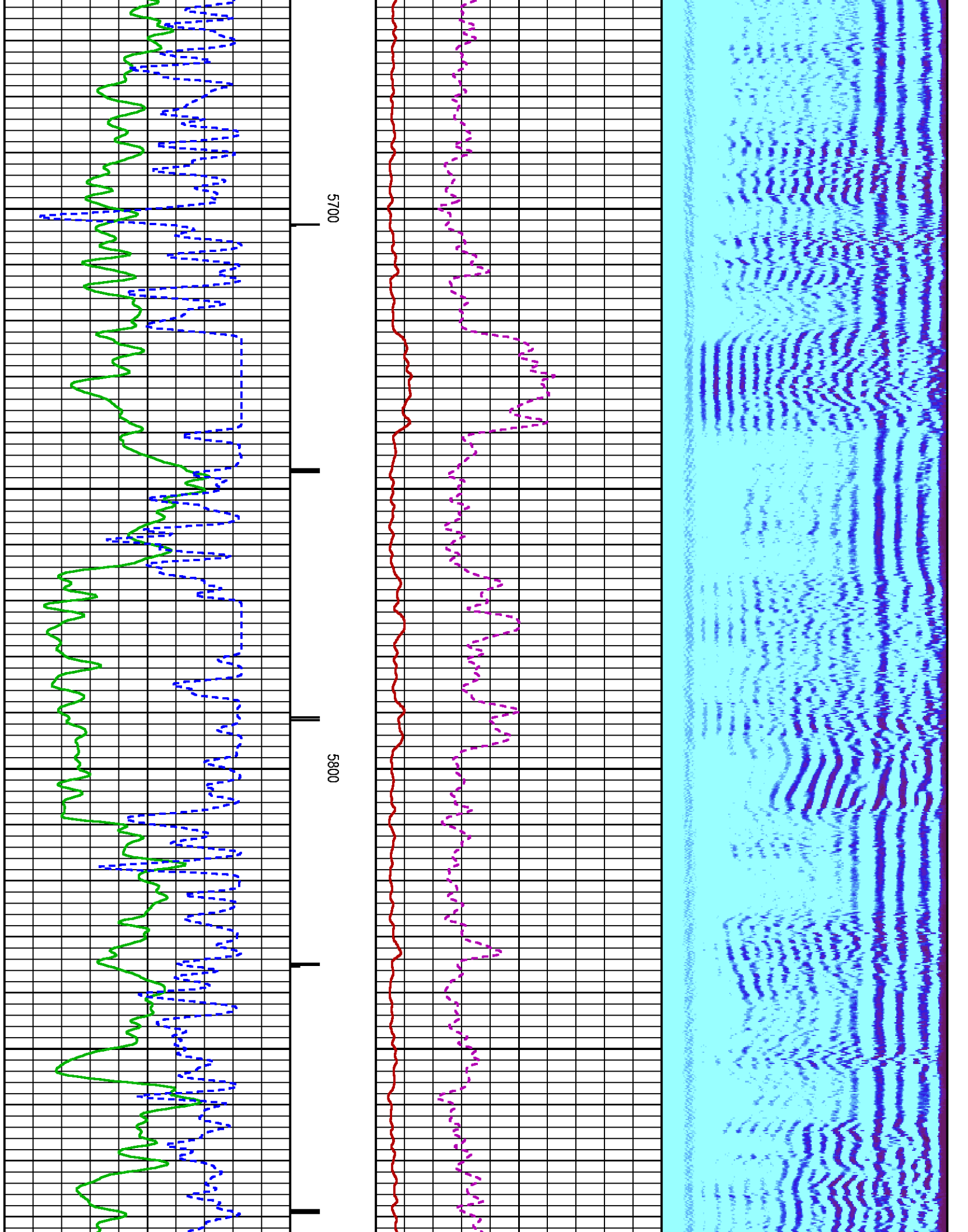




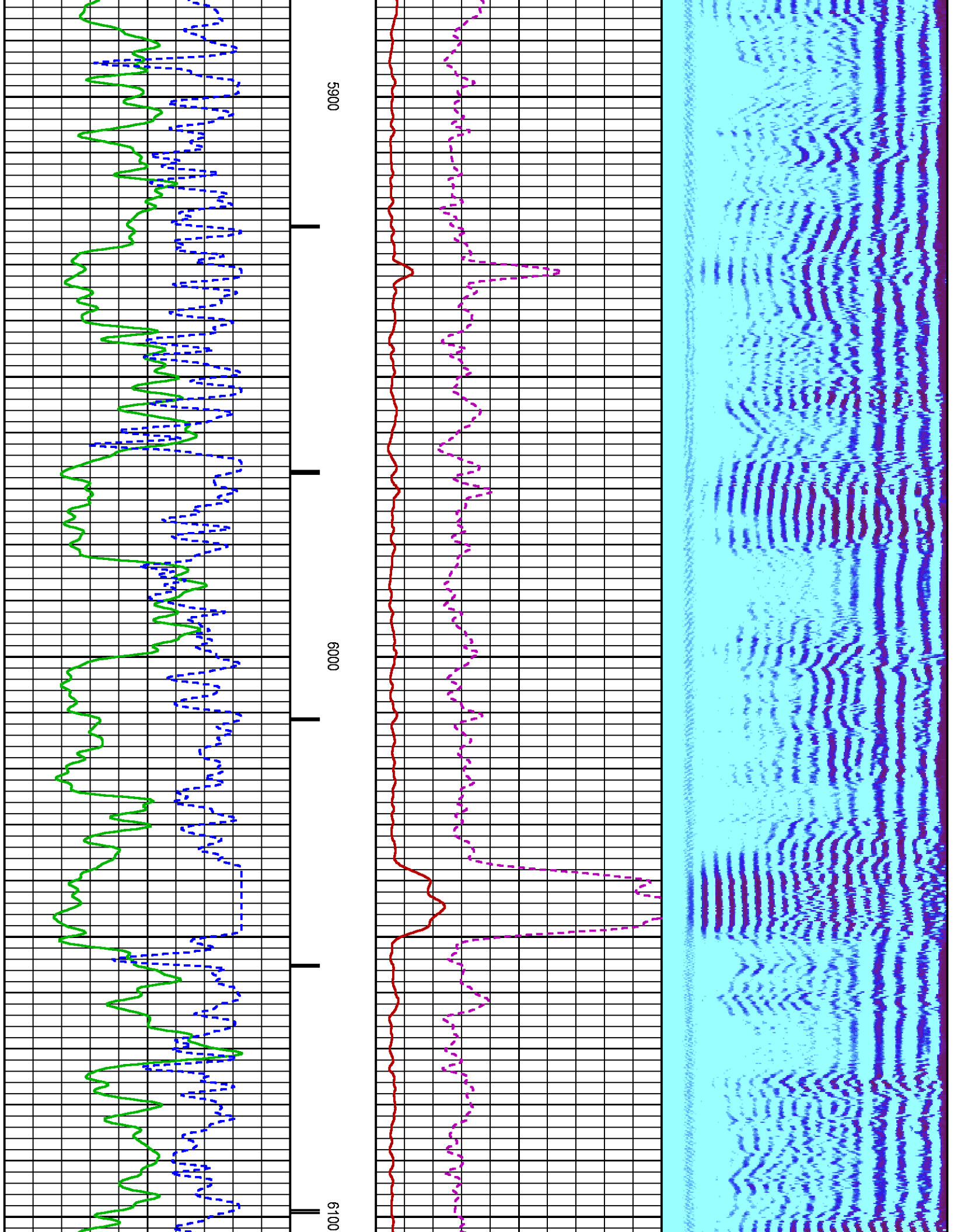


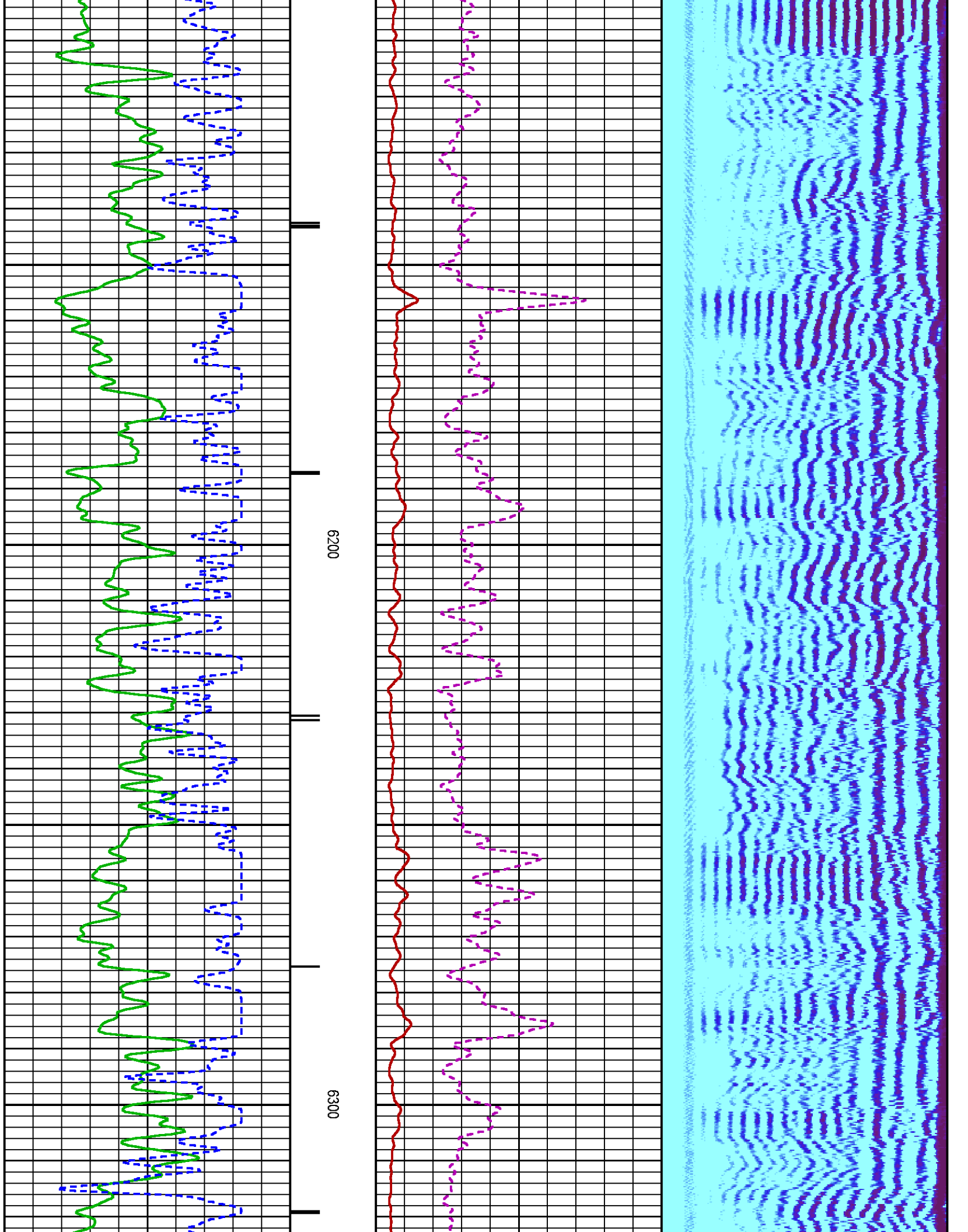


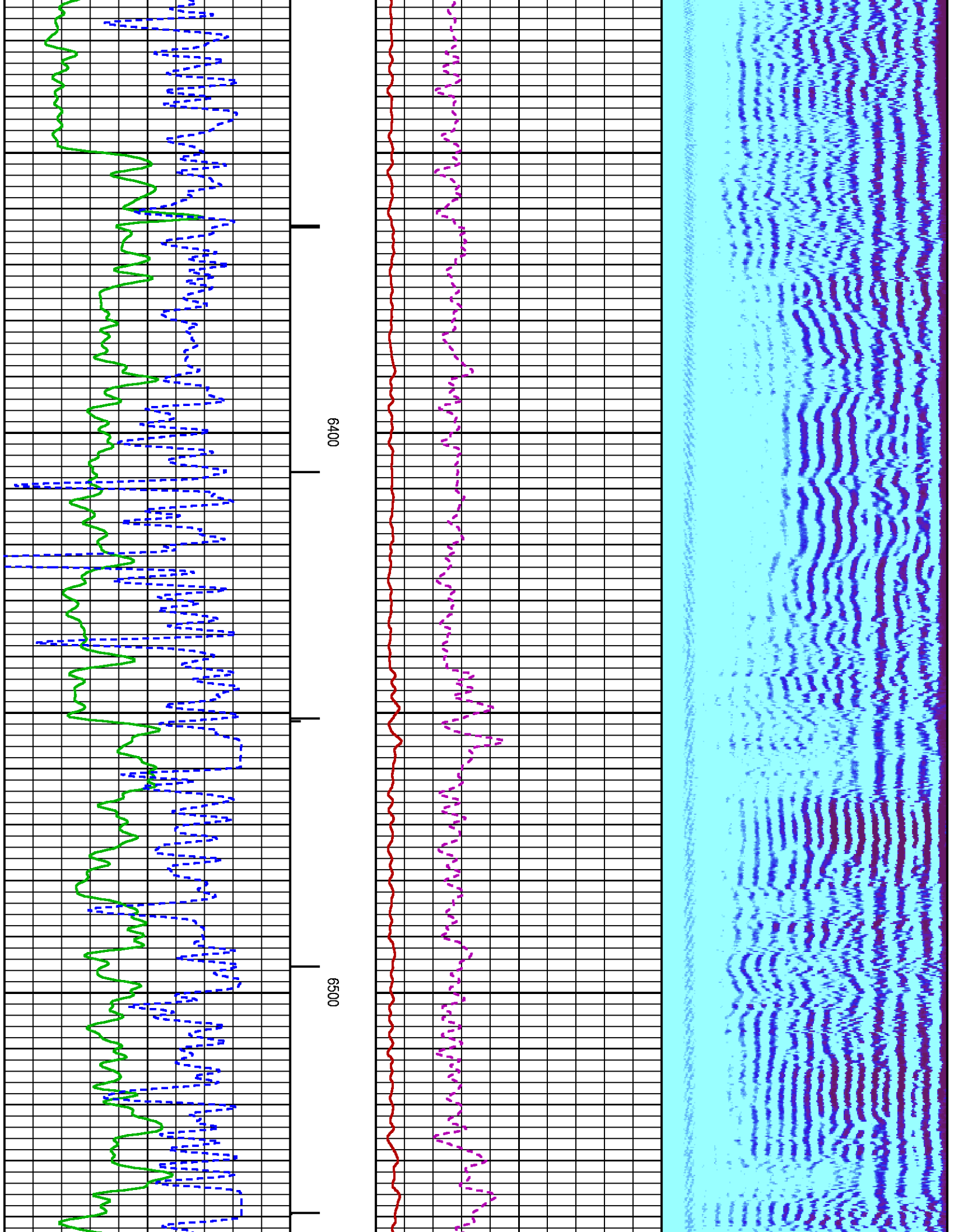




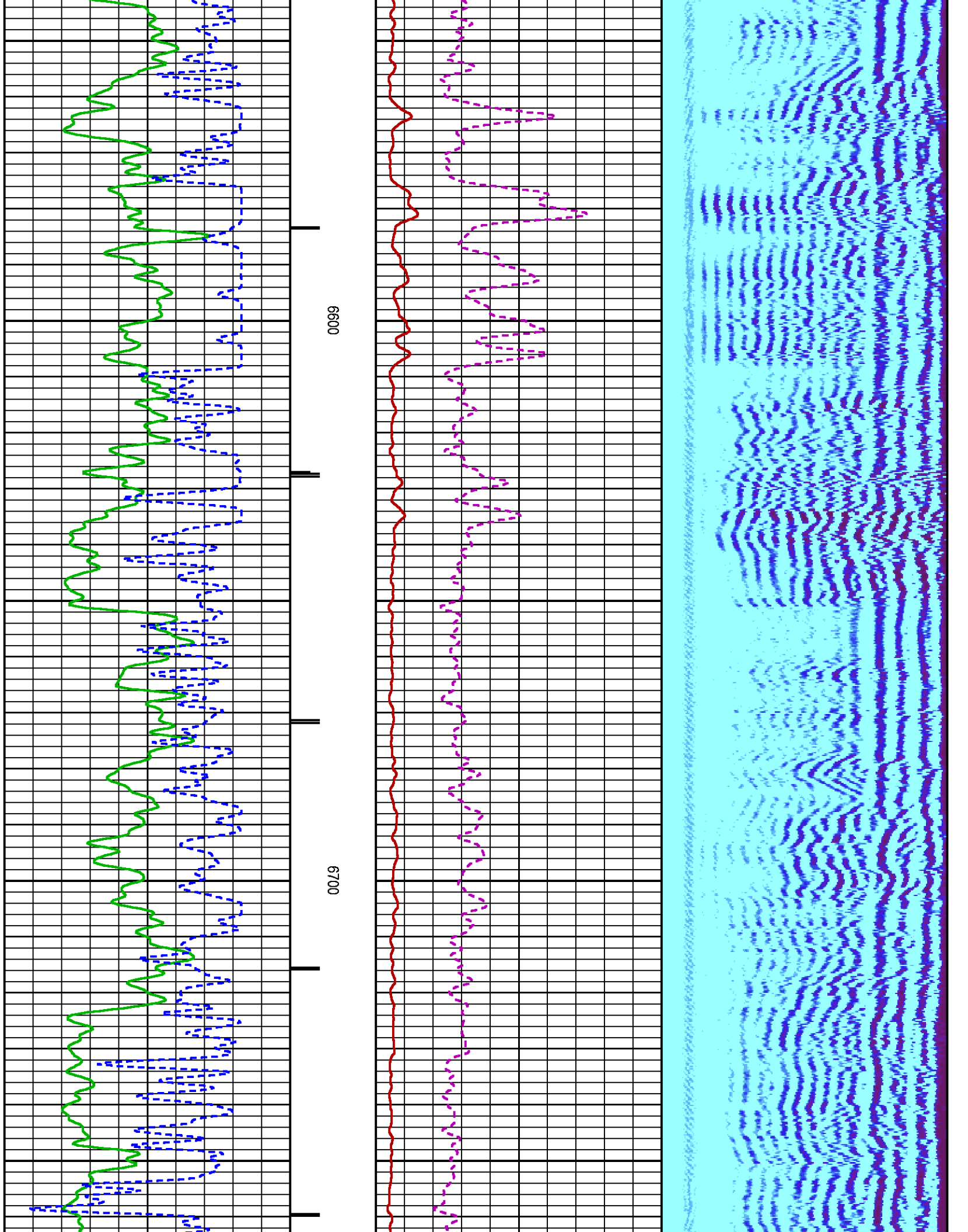


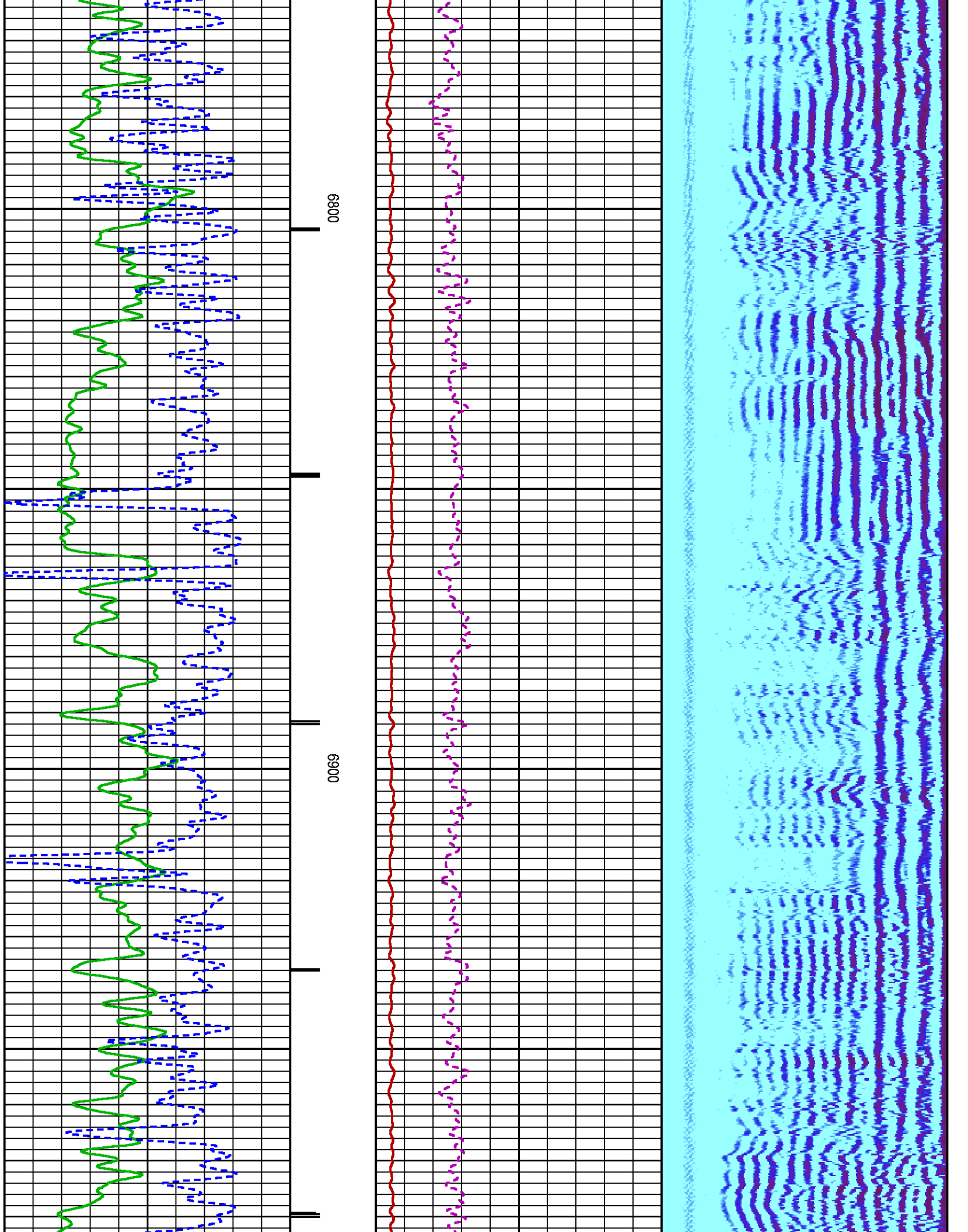


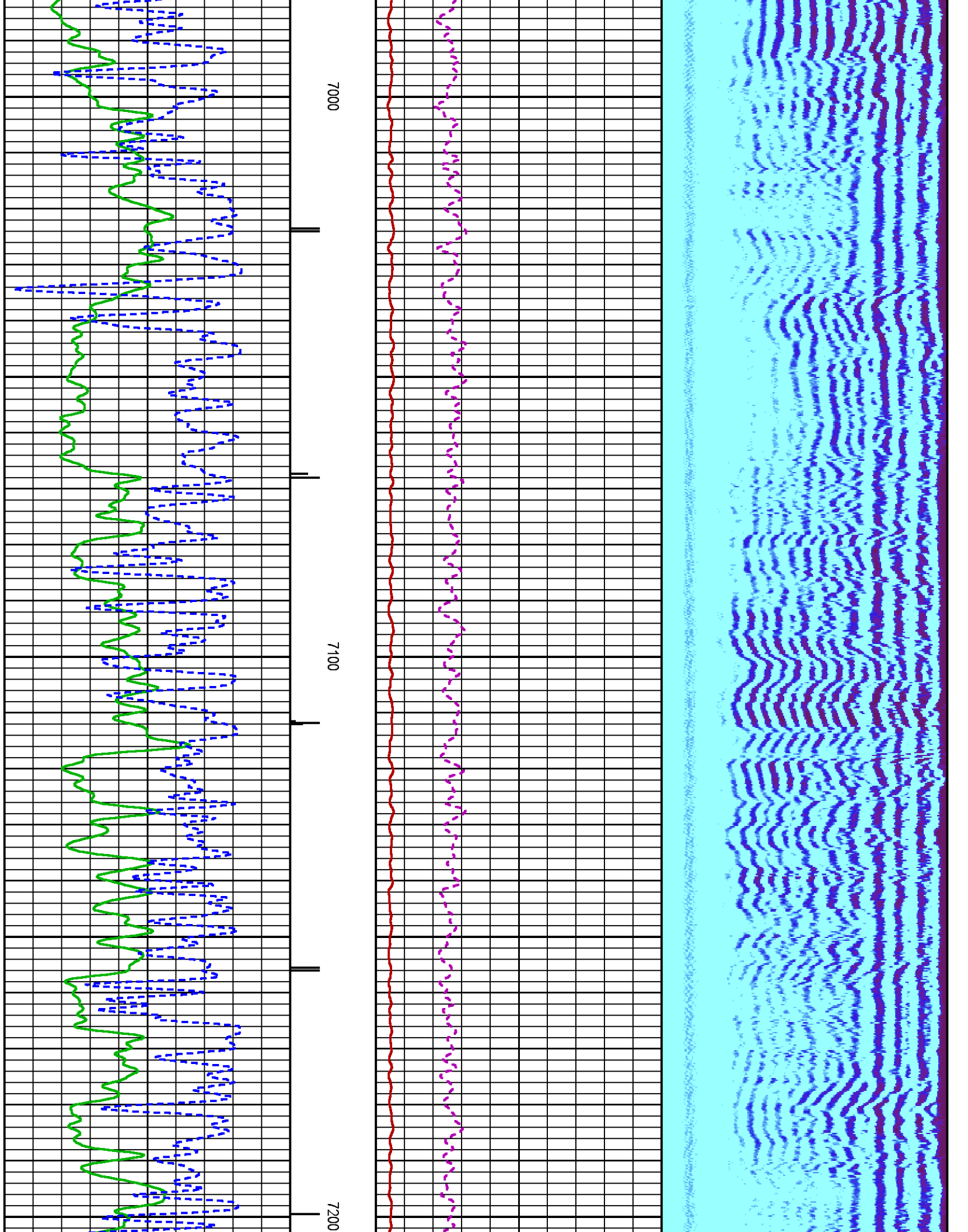


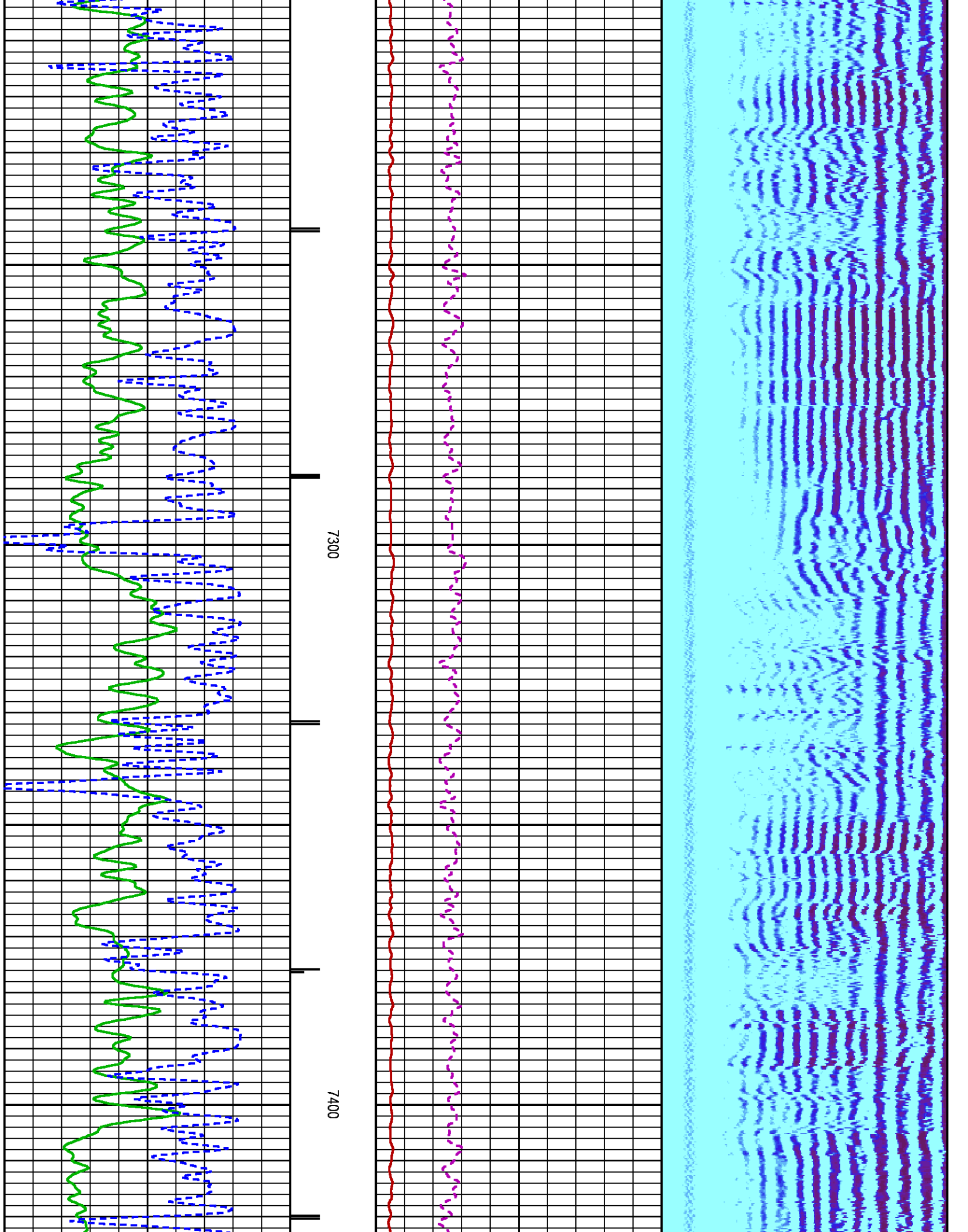




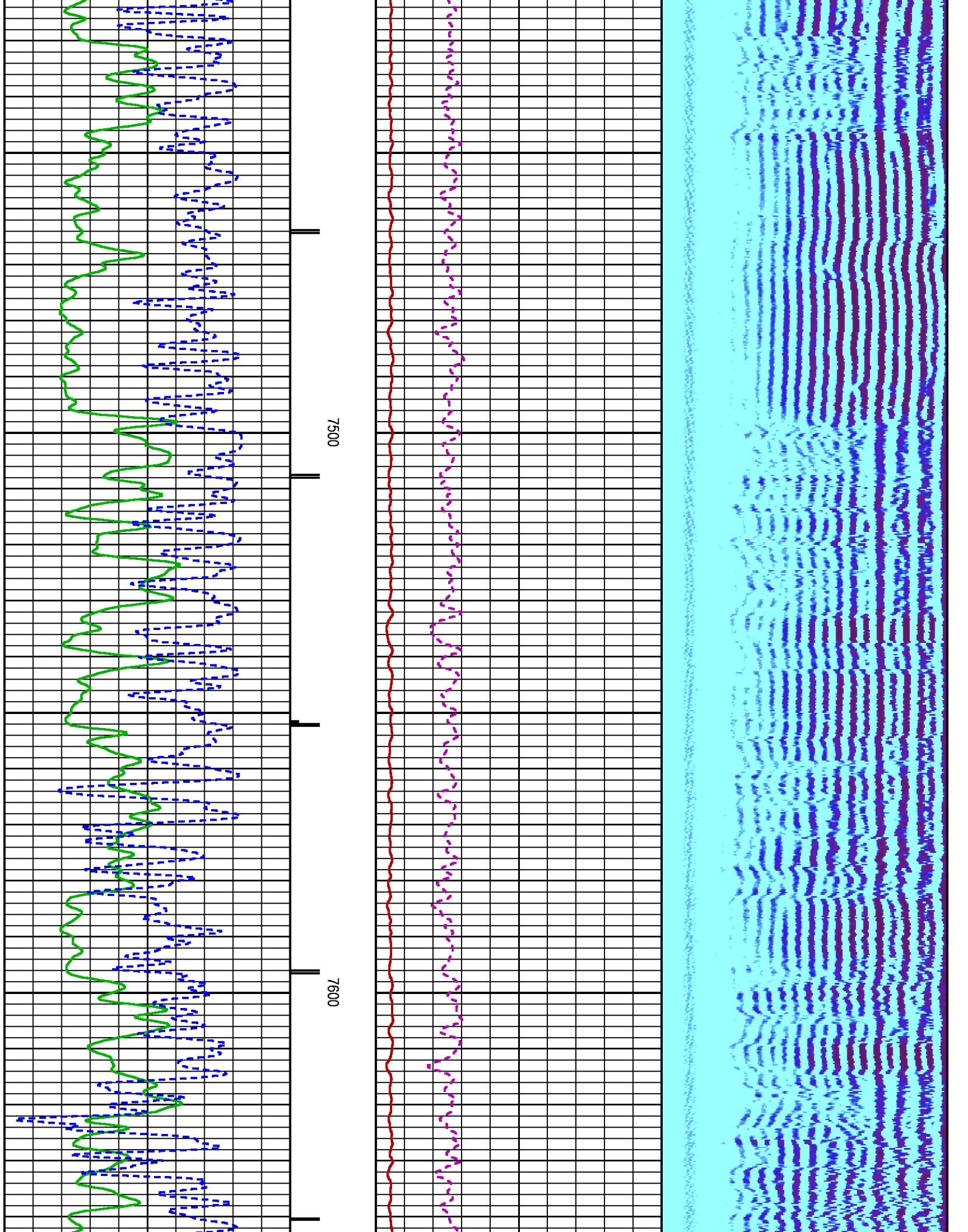


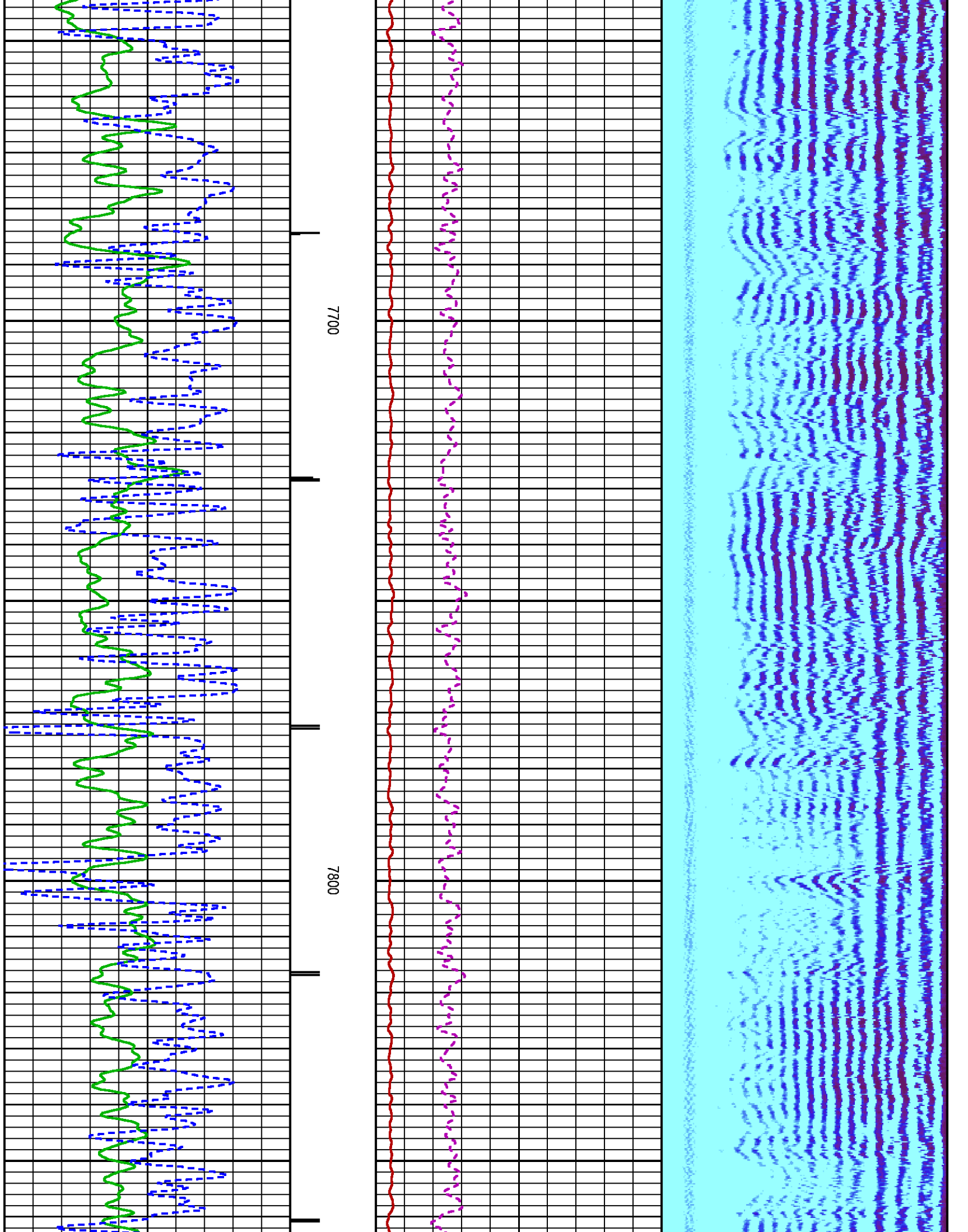


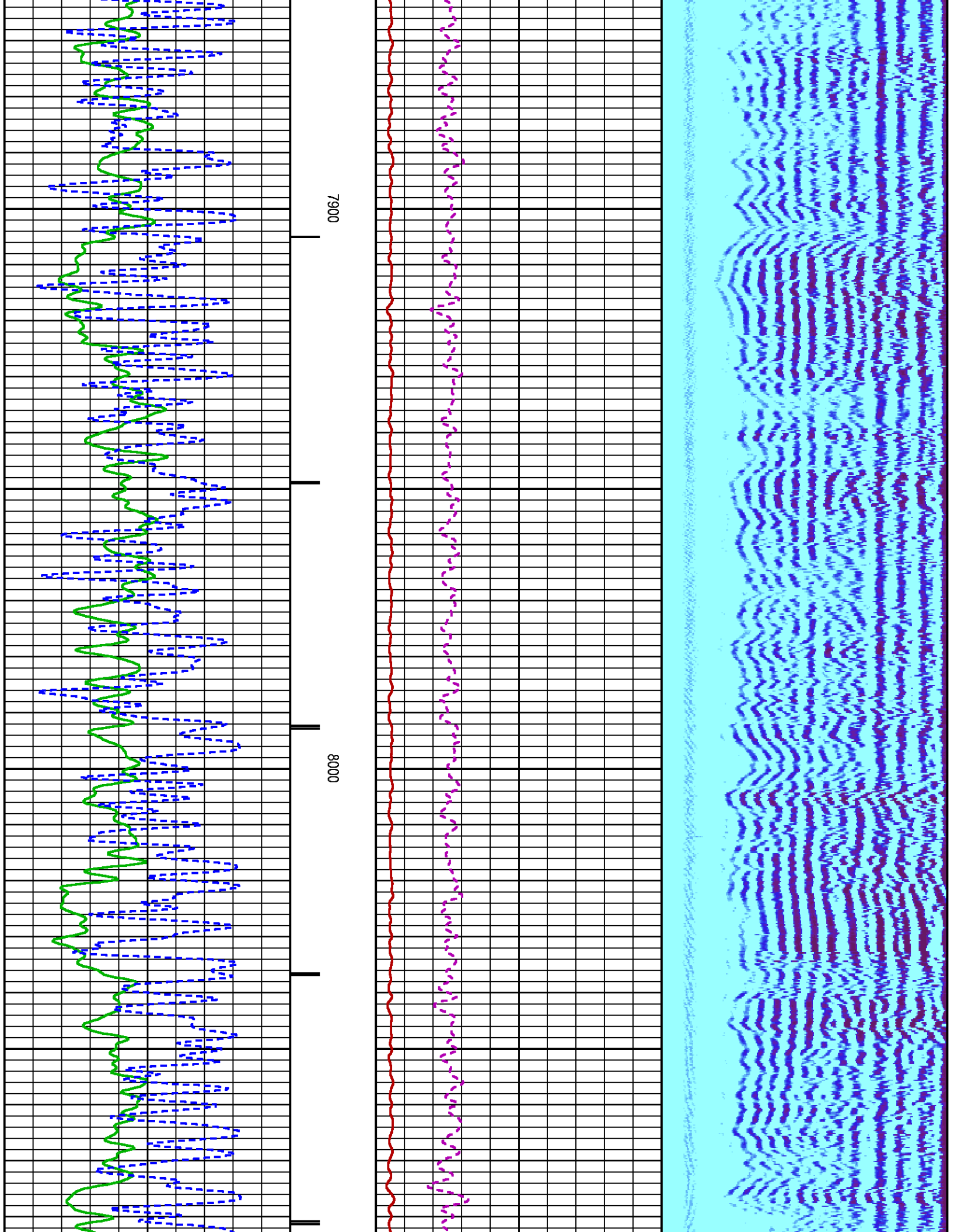


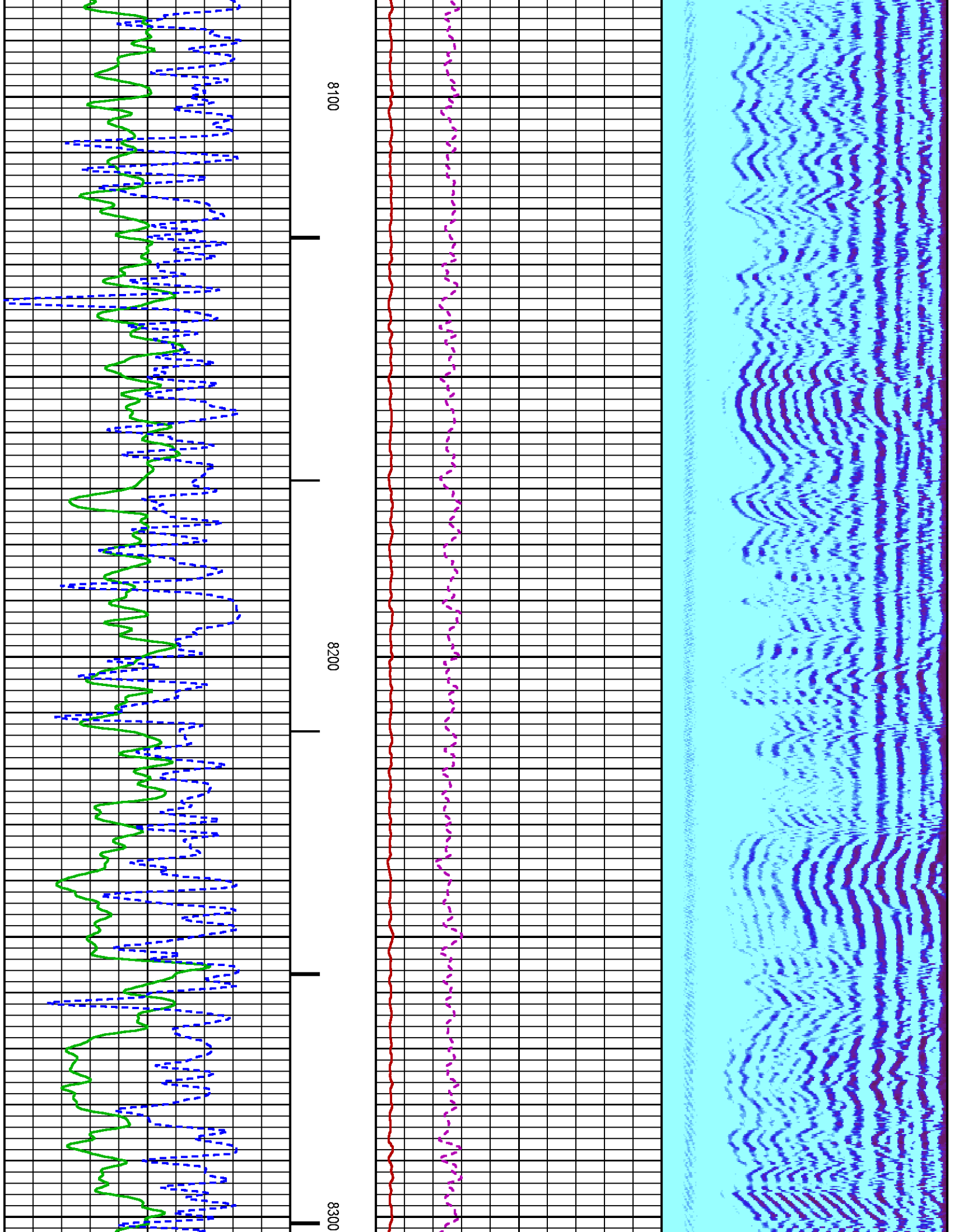




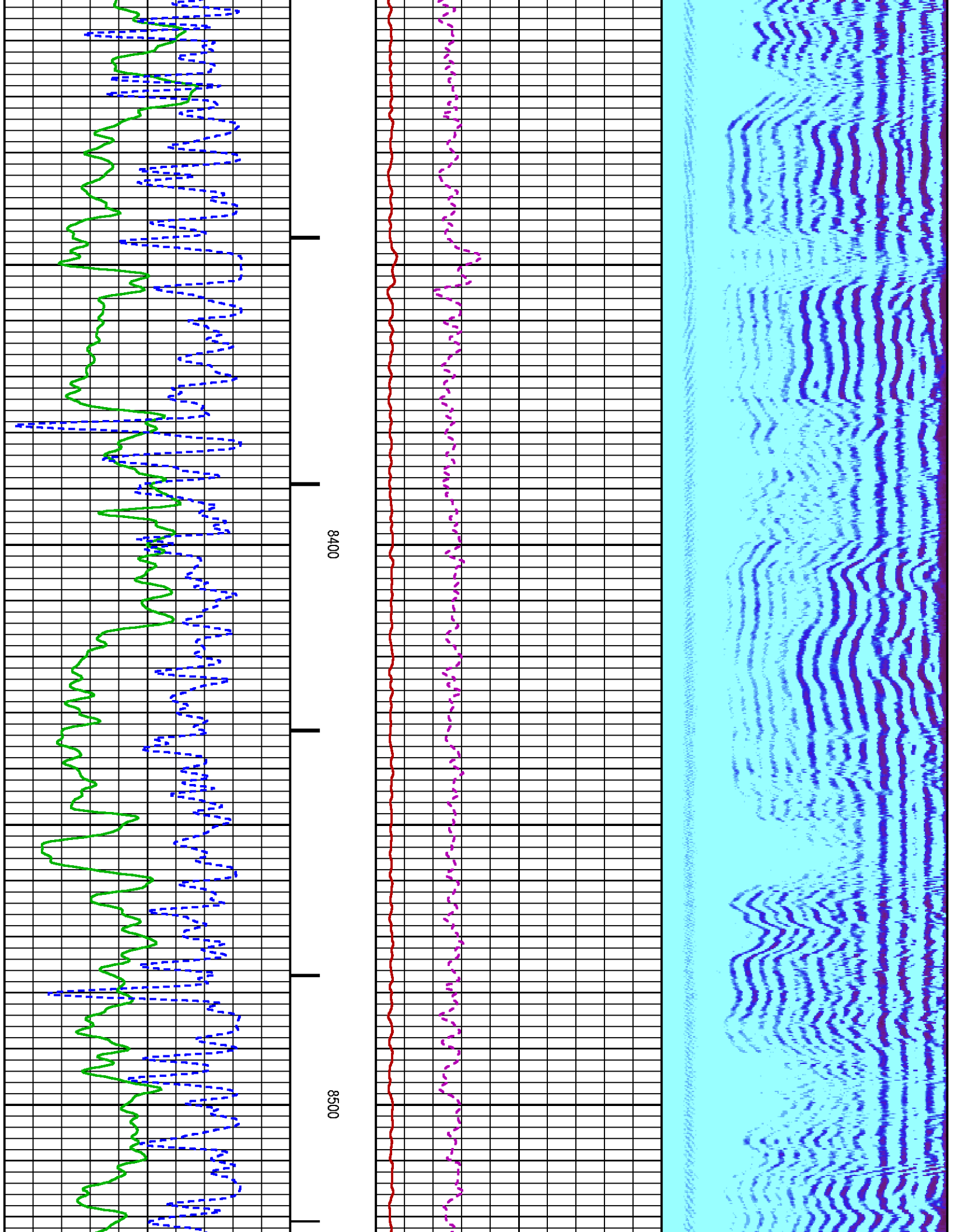


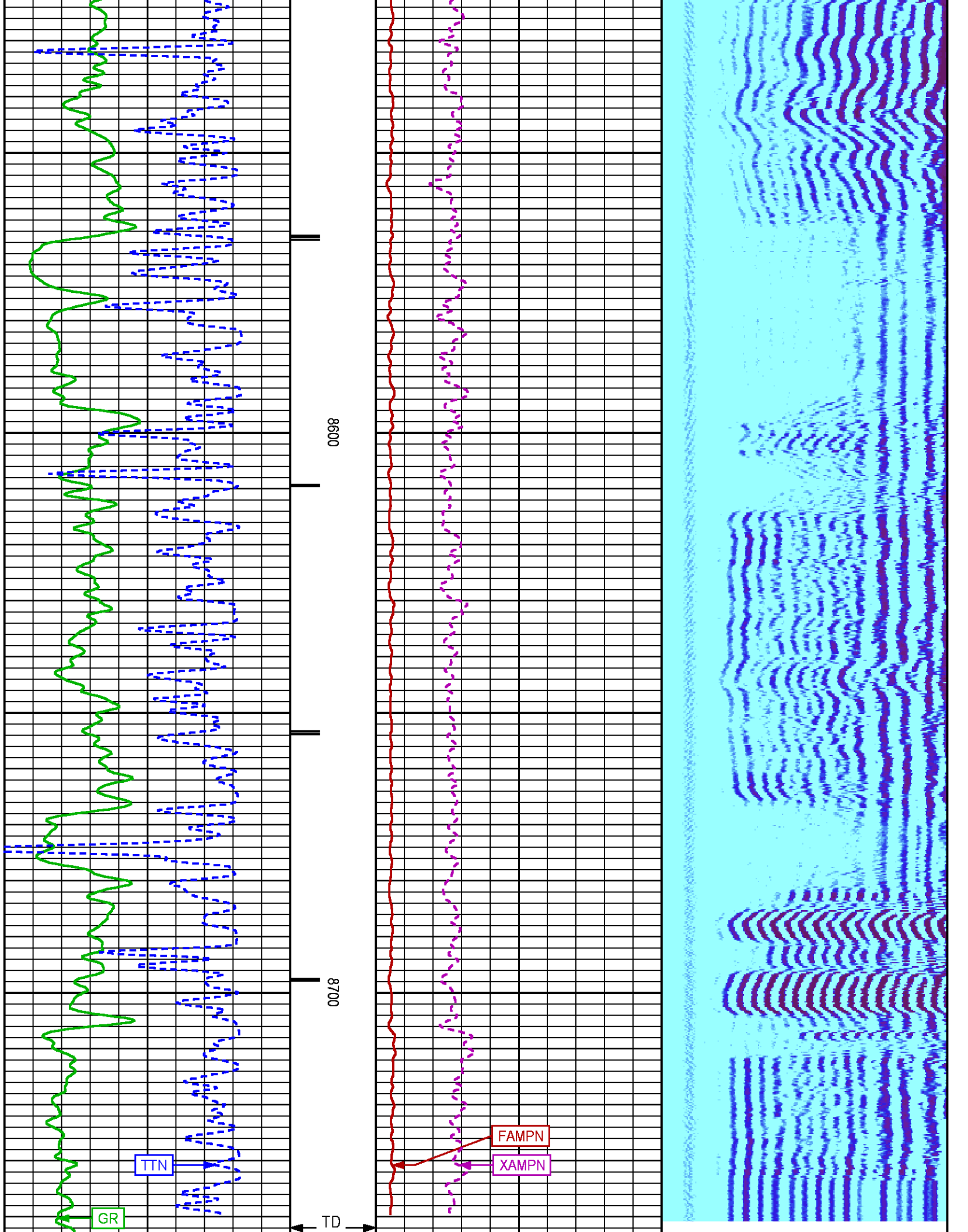


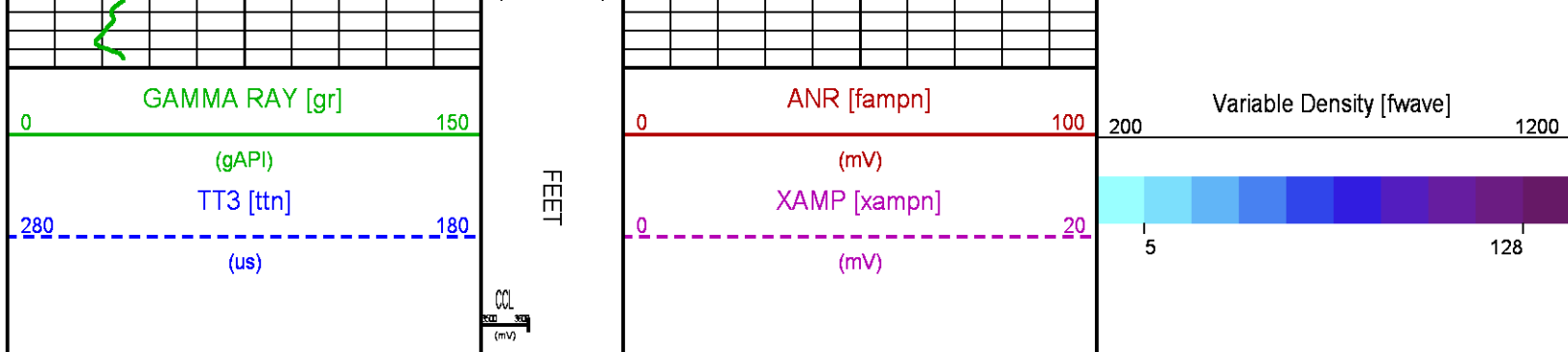












## SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Thu Jan 08 13:02:02 2015

### PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\093871\012g02.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 27.500 ft BOTTOM DEPTH: 8750.070 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

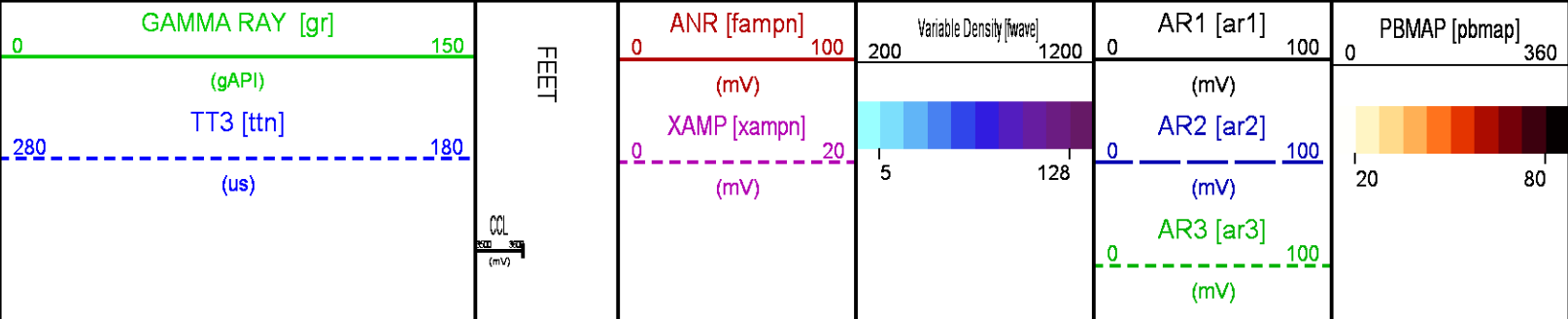
| MEASUREMENT TYPE          | PARAMETER                  | VALUE   | UNITS | INTERVAL (ft) |        |
|---------------------------|----------------------------|---------|-------|---------------|--------|
| AMPLITUDE WINDOW (NEAR)   | AMP WINDOW START (fgp1*)   | 183     | us    | TOP           | BOTTOM |
|                           | AMP WINDOW START (fgp2*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp3*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp4*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp5*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp6*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp7*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgp8*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW START (fgpn*)   | 183     | us    | "             | "      |
|                           | AMP WINDOW LENGTH          | 25      | us    | "             | "      |
|                           | TT WINDOW START (ttn*)     | 197     | us    | "             | "      |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW LENGTH           | 500     | us    | "             | "      |
|                           | FIRST BRK THRESHOLD (ttn*) | 4       | mV    | "             | "      |
|                           | PPT NEAR                   | 200.391 | us    | "             | "      |
| RAL CASING PARAMETERS     | TOOL DELAY (str1*)         | -72     | us    | "             | "      |
| RAL TOOL DELAY            | TOOL DELAY (str2*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str3*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str4*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str5*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str6*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str7*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str8*)         | -72     | us    | "             | "      |
|                           | TOOL DELAY (str9*)         | -72     | 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    | "             | "      |

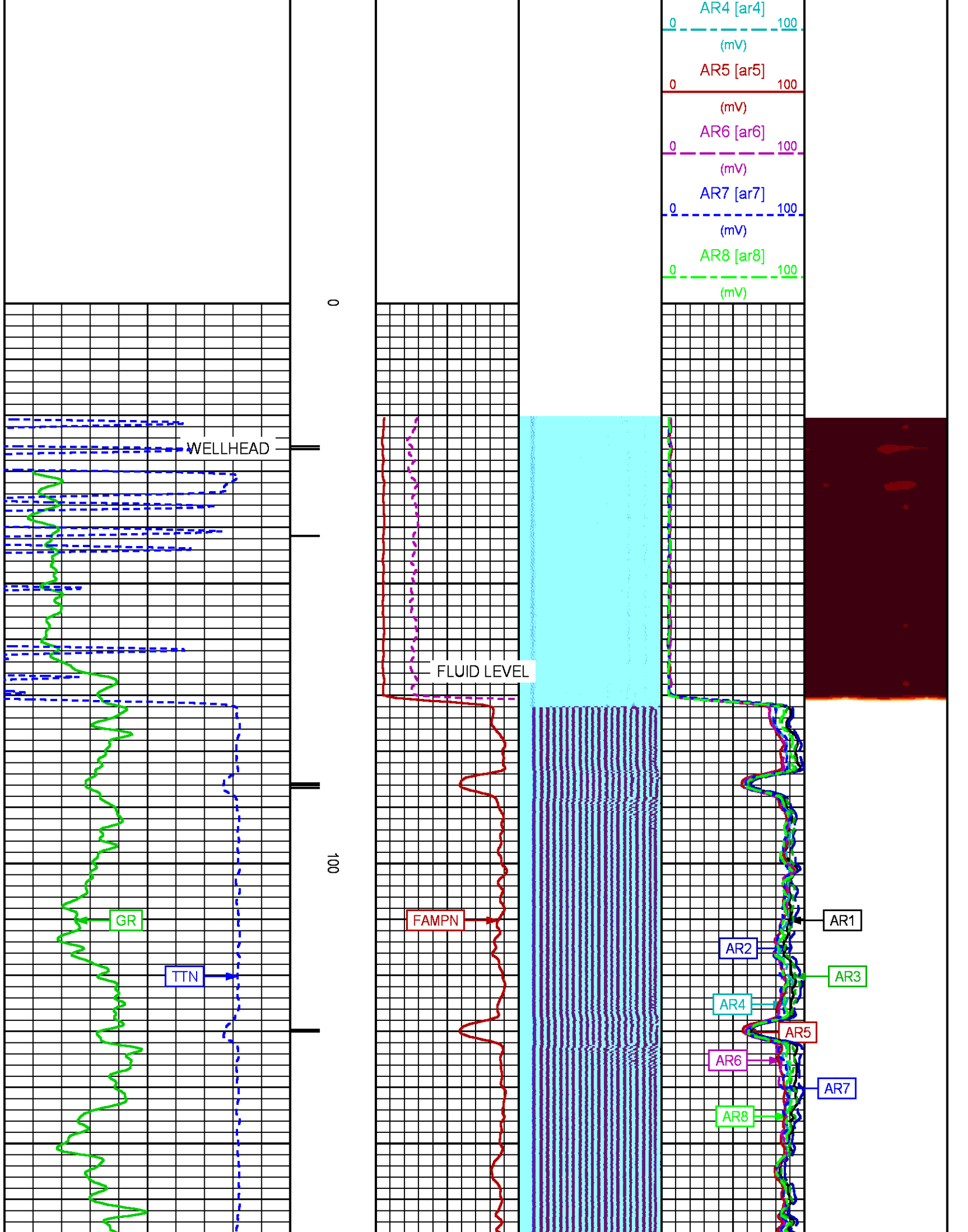
| CURVE DESCRIPTION REPORT |                     |   |
|--------------------------|---------------------|---|
| CURVE NAME               | CREATION DATE       | CURVE DESCRIPTION                             |
| F1:AR1                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R1                     |
| F1:AR2                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R2                     |
| F1:AR3                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R3                     |
| F1:AR4                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R4                     |
| F1:AR5                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R5                     |
| F1:AR6                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R6                     |
| F1:AR7                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R7                     |
| F1:AR8                   | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE T-R8                     |
| F1:CCL                   | Jan 8 09:12:18 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN                 | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE                 | Jan 8 09:12:18 2015 | FAR WAVE FORM                                 |
| F1:GR                    | Jan 8 09:12:18 2015 | GAMMA RAY                                     |
| F1:PBMAP                 | Jan 8 09:12:18 2015 | PERCENT BOND CEMENT MAP                       |
| F1:TTN                   | Jan 8 09:12:18 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN                 | Jan 8 09:12:18 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

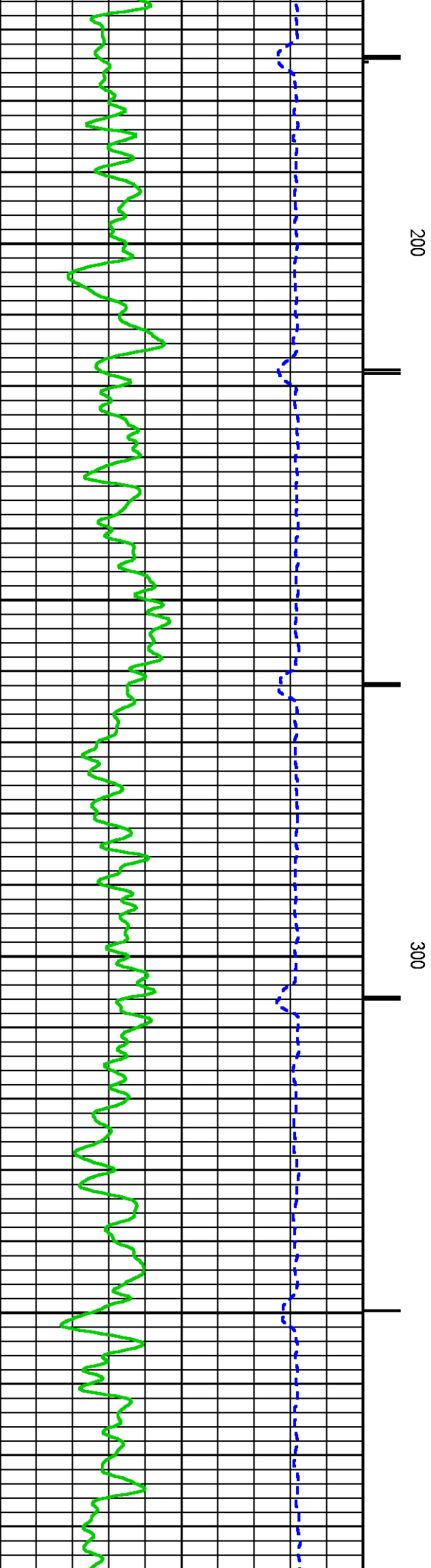
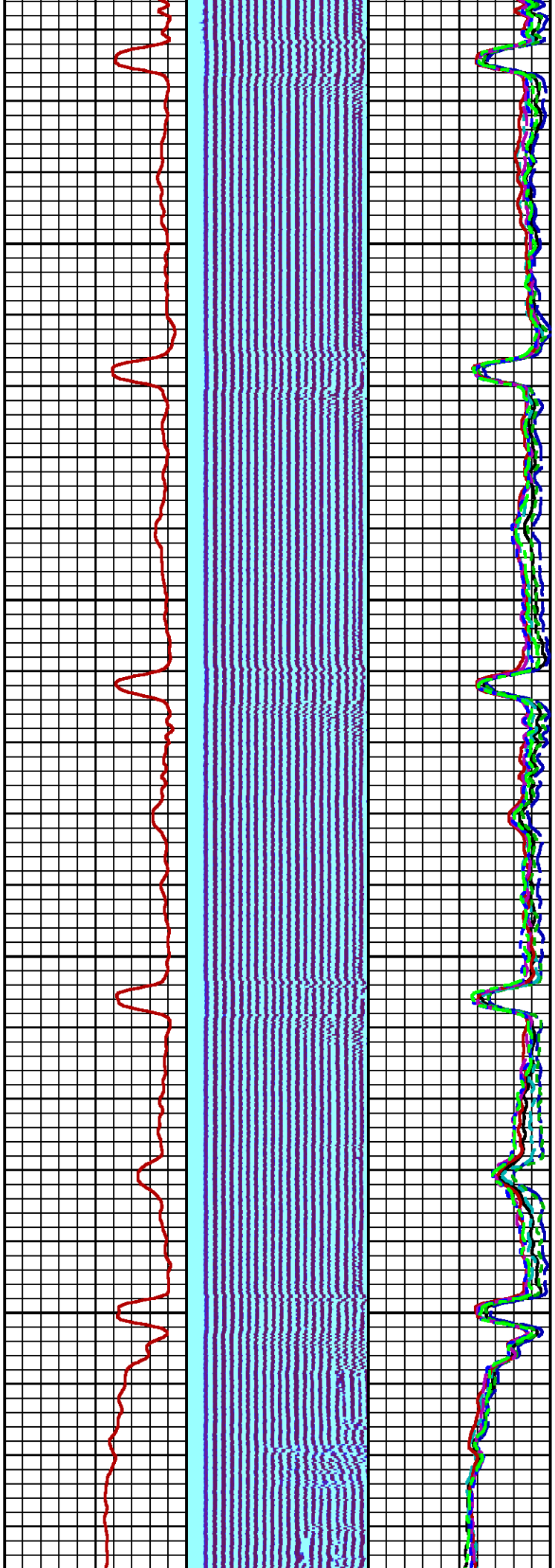
| CURVE MEASURE POINT OFFSET |             |       |             |       |             |       |             |
|----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CURVE                      | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
| AR1                        | 11.25       | AR5   | 11.25       | CCL   | 5.75        | XAMPN | 11.25       |
| AR2                        | 11.25       | AR6   | 11.25       | FAMPN | 11.25       |       |             |
| AR3                        | 11.25       | AR7   | 11.25       | GR    | 1.75        |       |             |
| AR4                        | 11.25       | AR8   | 11.25       | TTN   | 11.25       |       |             |

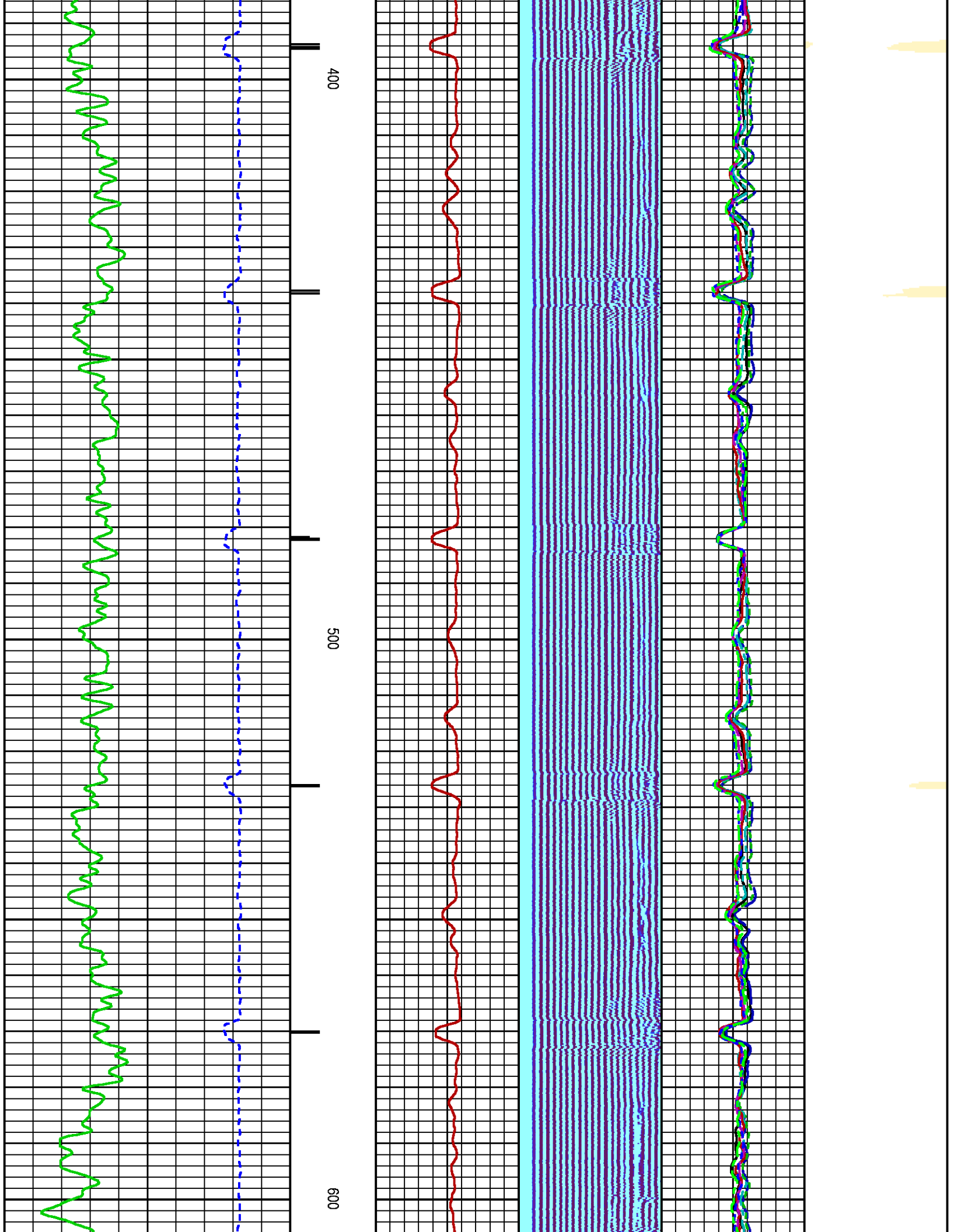
|               |   |
|---------------|---|
| Presentation  | : BHUGHES-06627:C:\dat1a\093871\341_CBL_SECONDARY.fvpdf [5"/100' Scale] |
| Plot Interval | : 0 - 8750.75 Feet  |
| Data File 1   | : F1 : BHUGHES-06627:C:\dat1a\093871\341_CBL_MAIN.xtf                   |
| Created On    | : Jan 8 09:12:18 2015   |
| Company       | : WPX ENERGY  |
| Well          | : FEDERAL PA 341-27   |
| Field         | : PARACHUTE   |
| File Interval | : 19.25 - 8752 Feet   |
| OCT           | : n012g   |



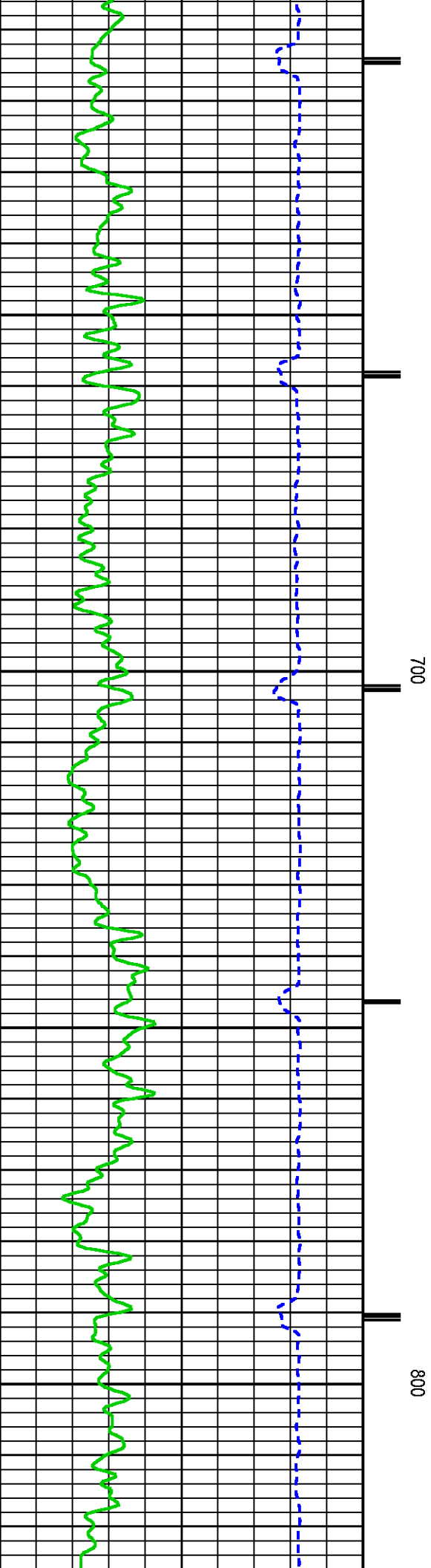
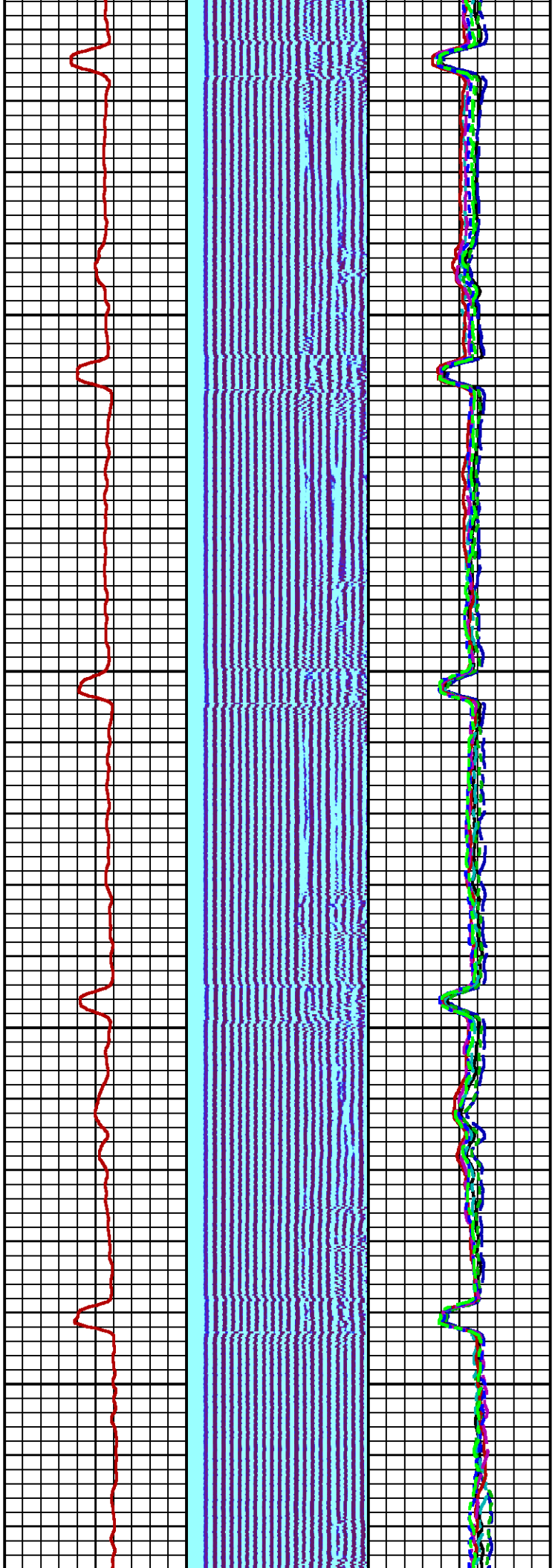




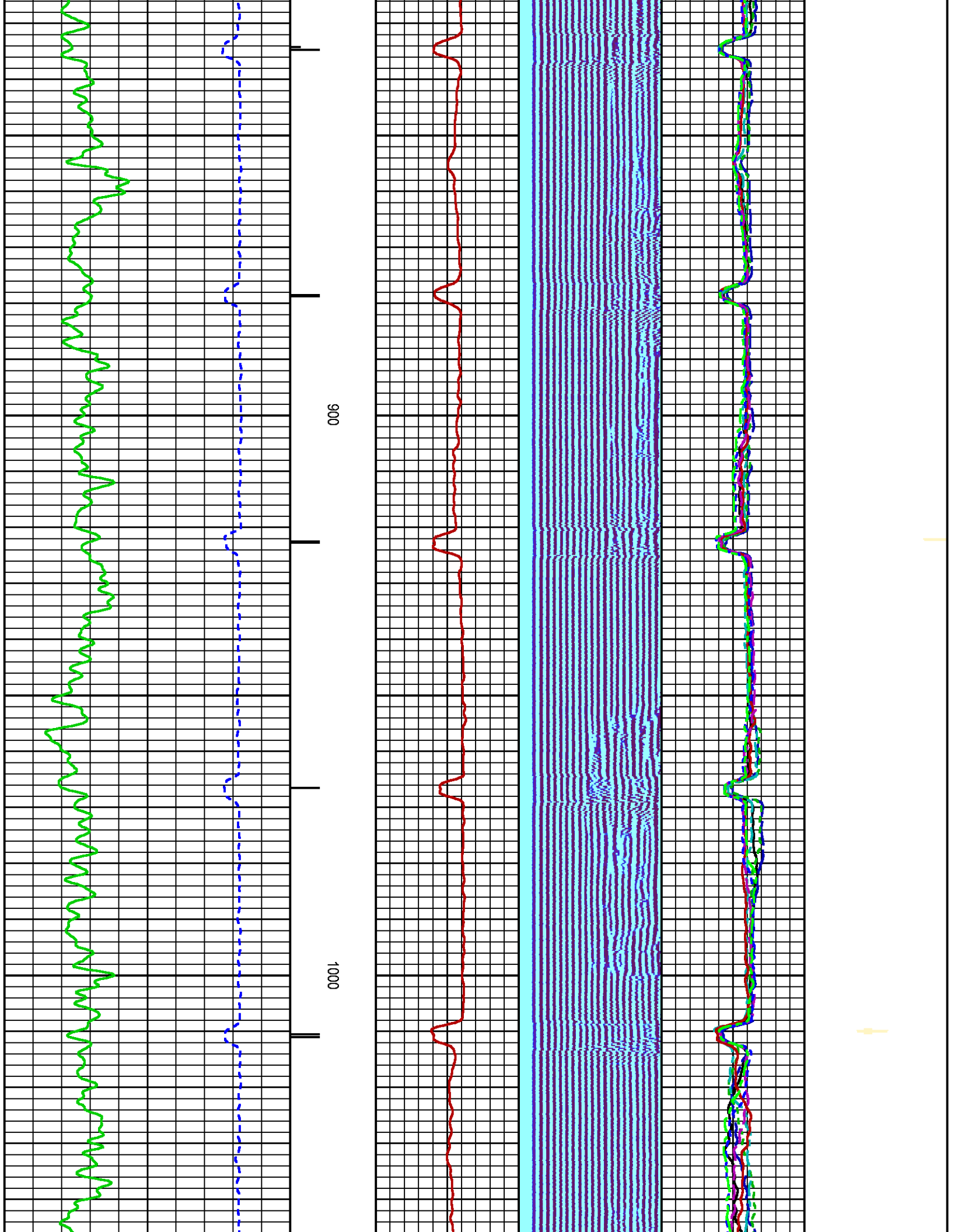


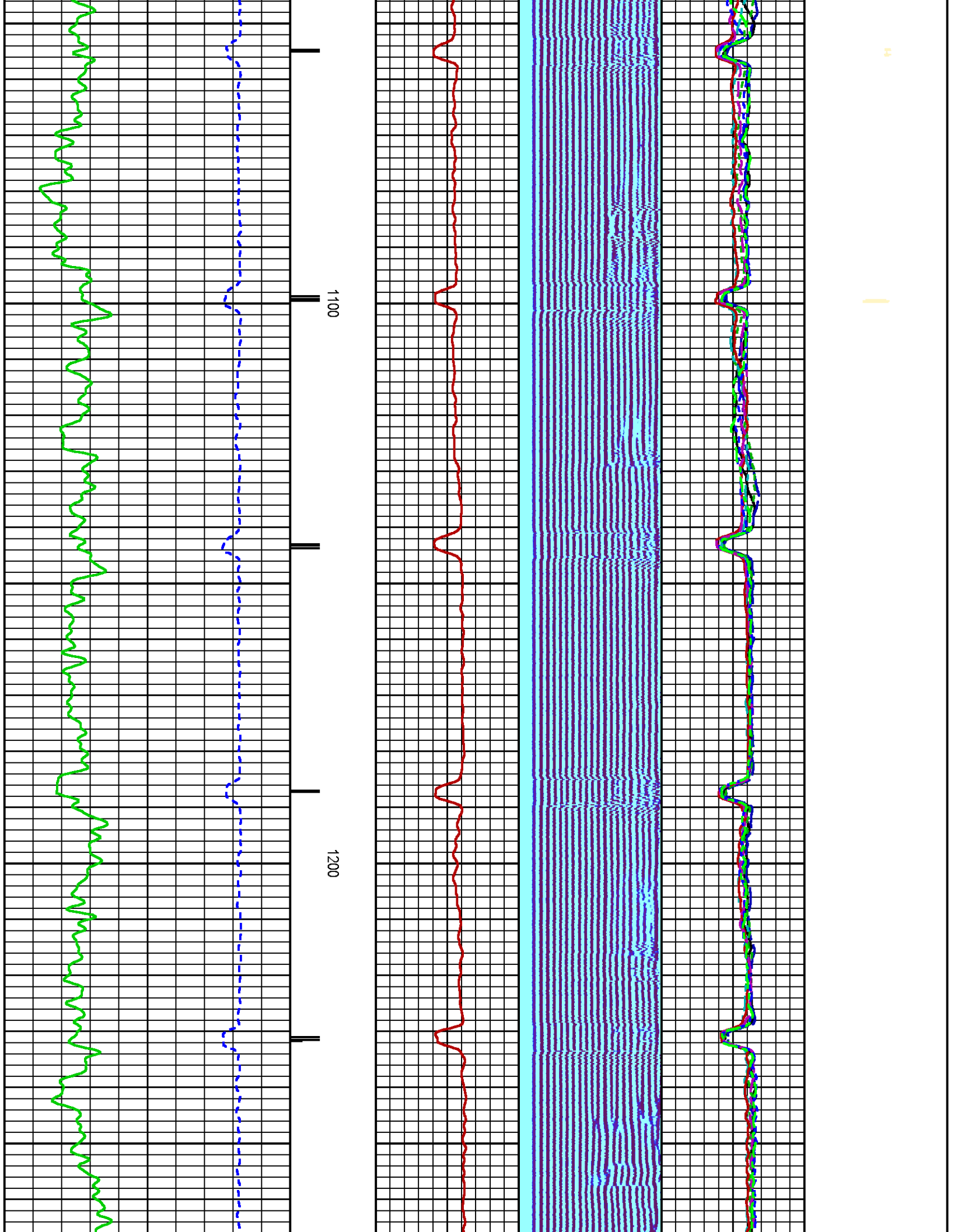


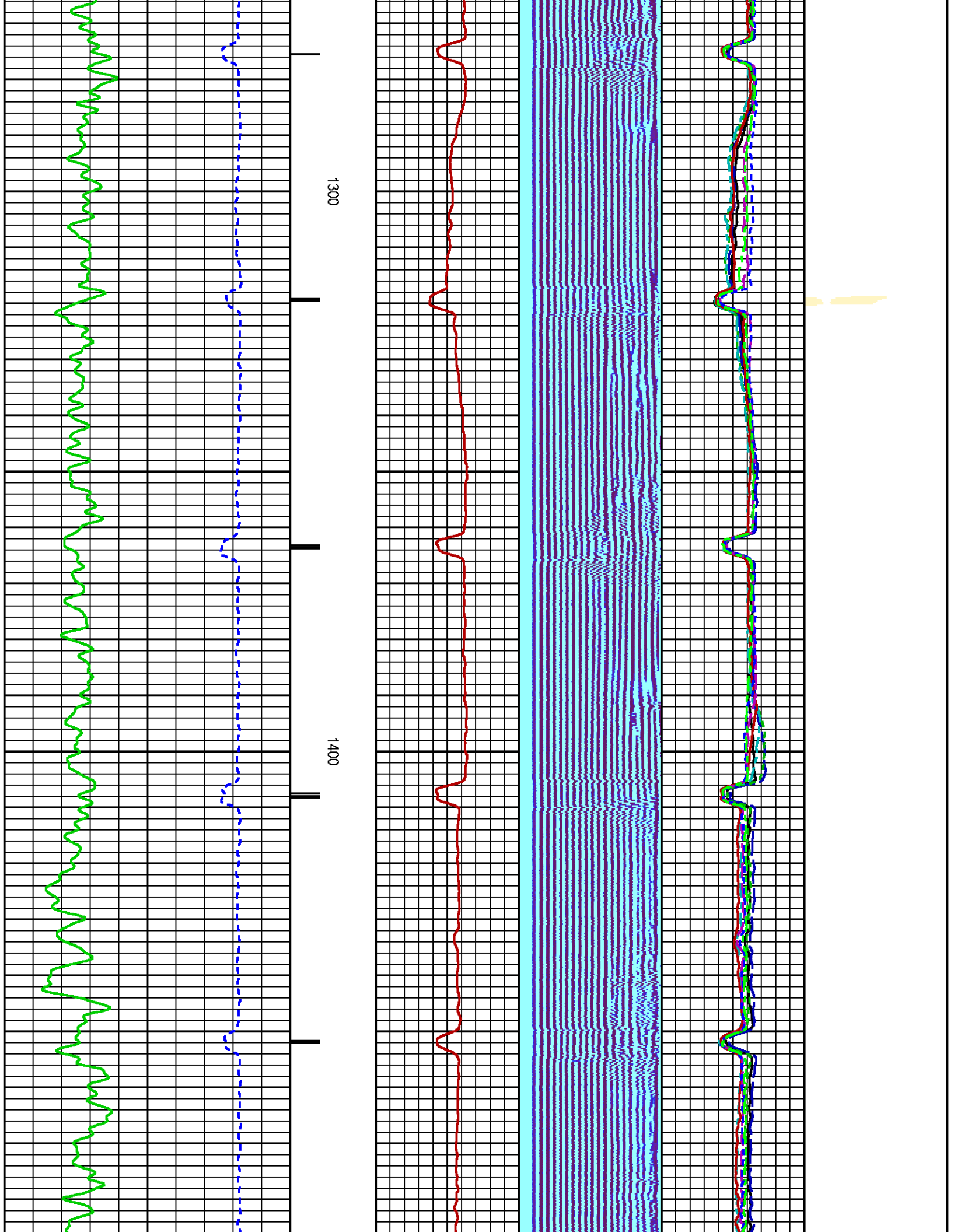
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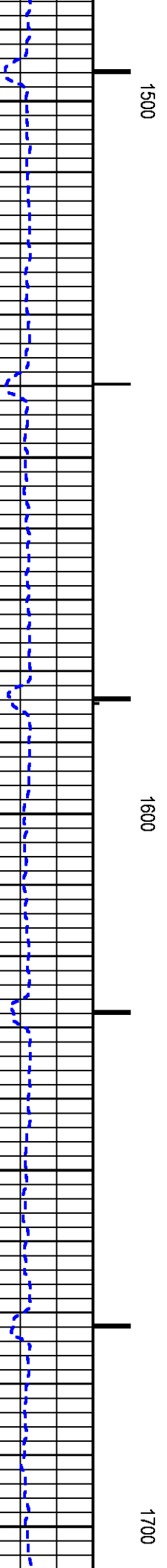
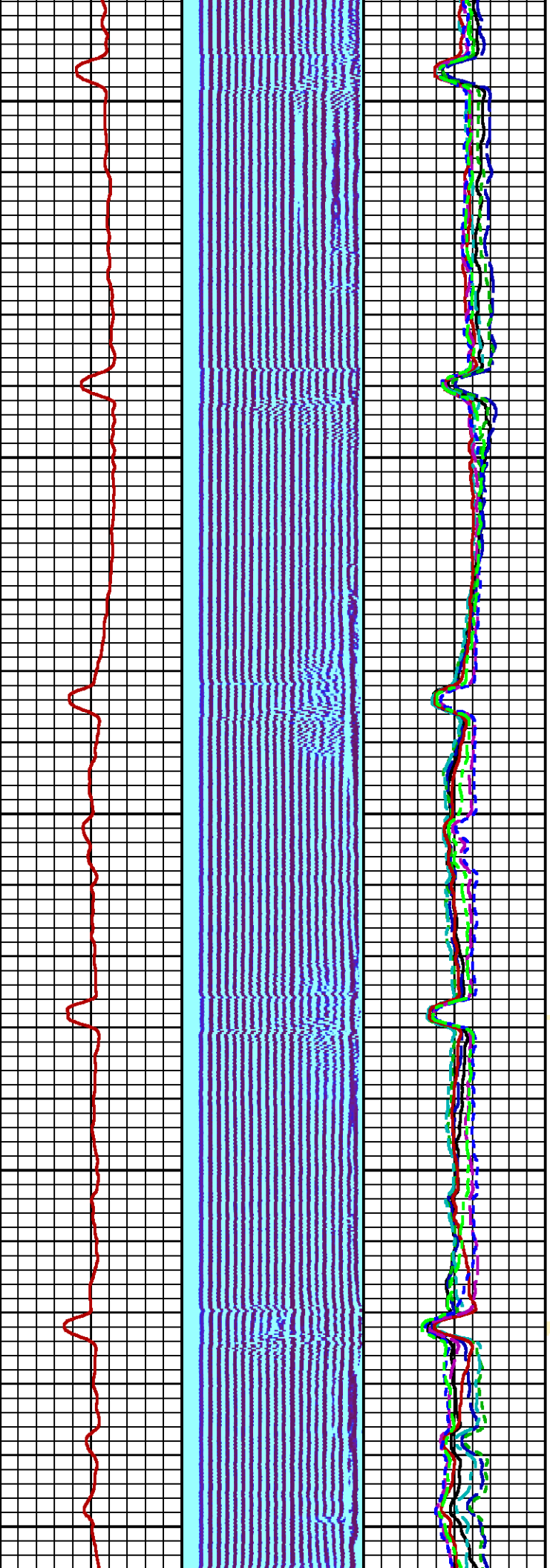




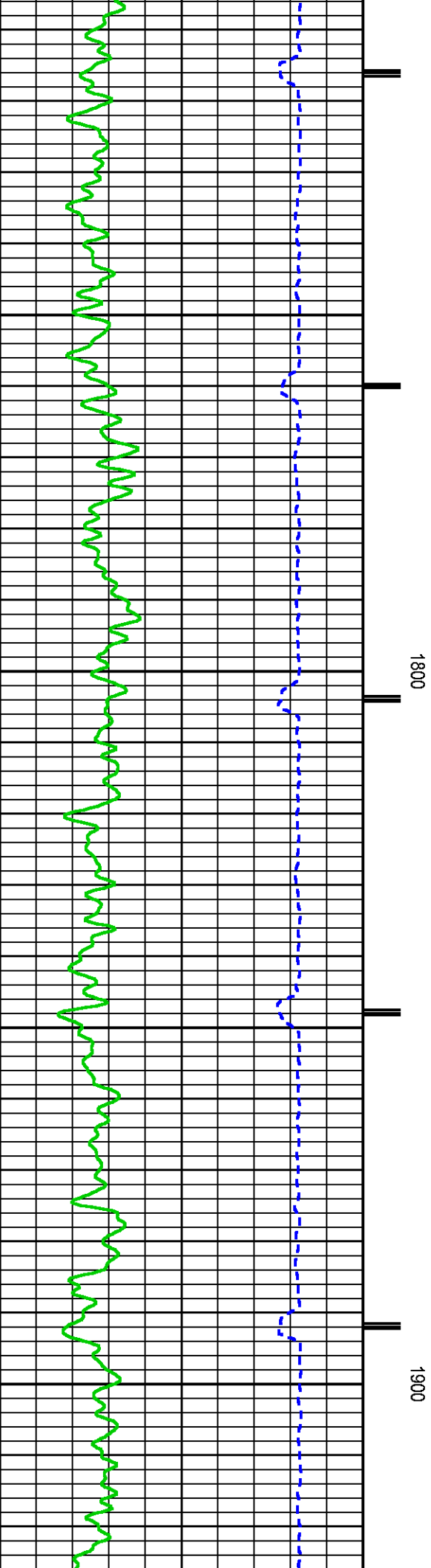
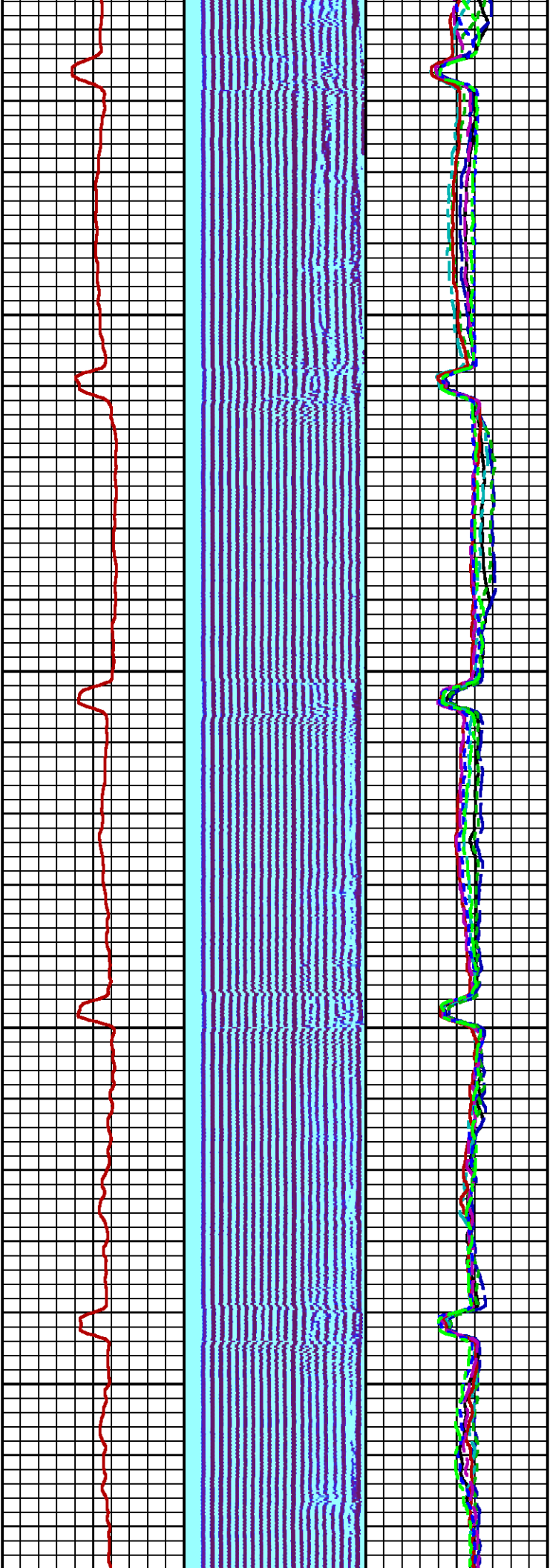
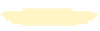


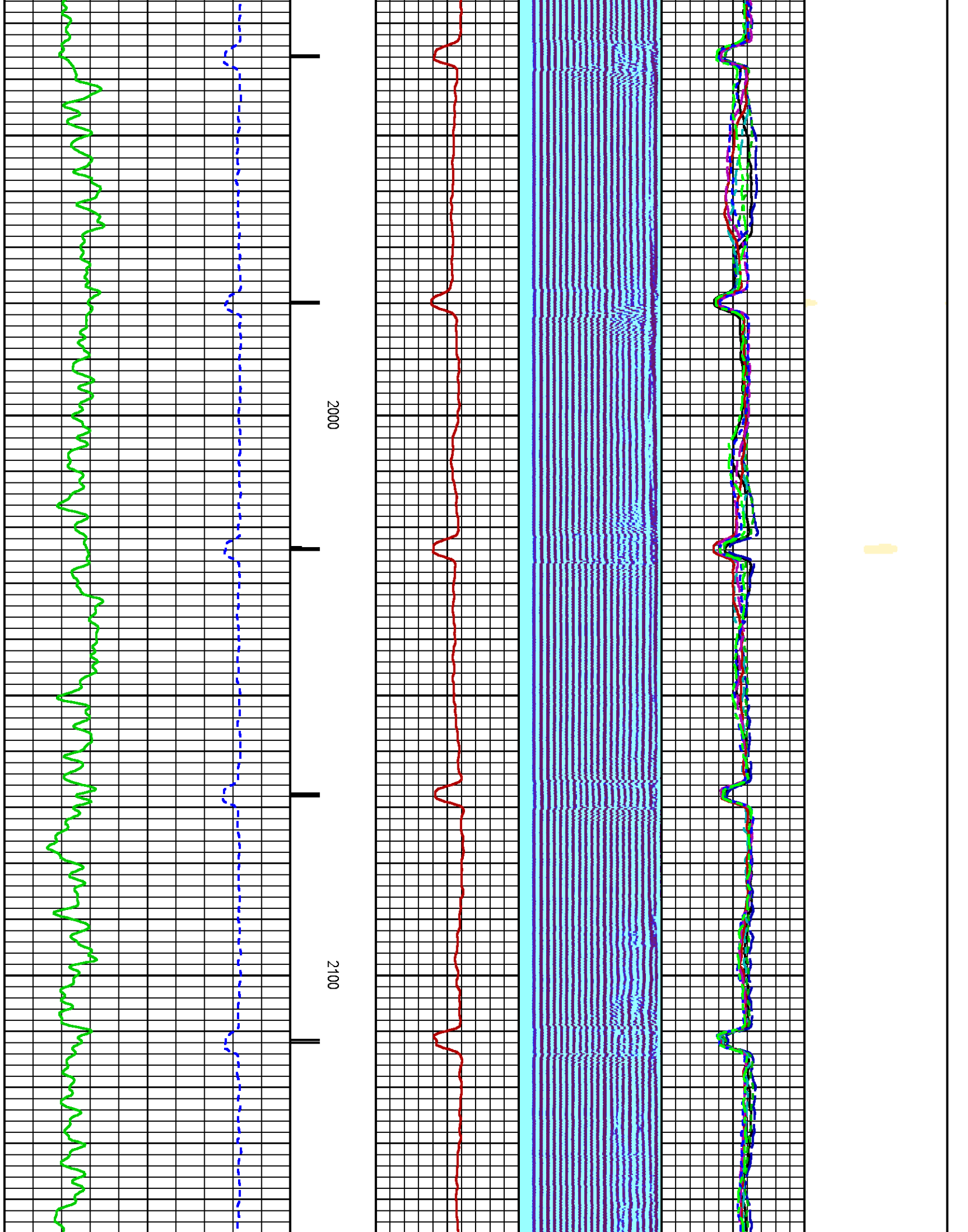


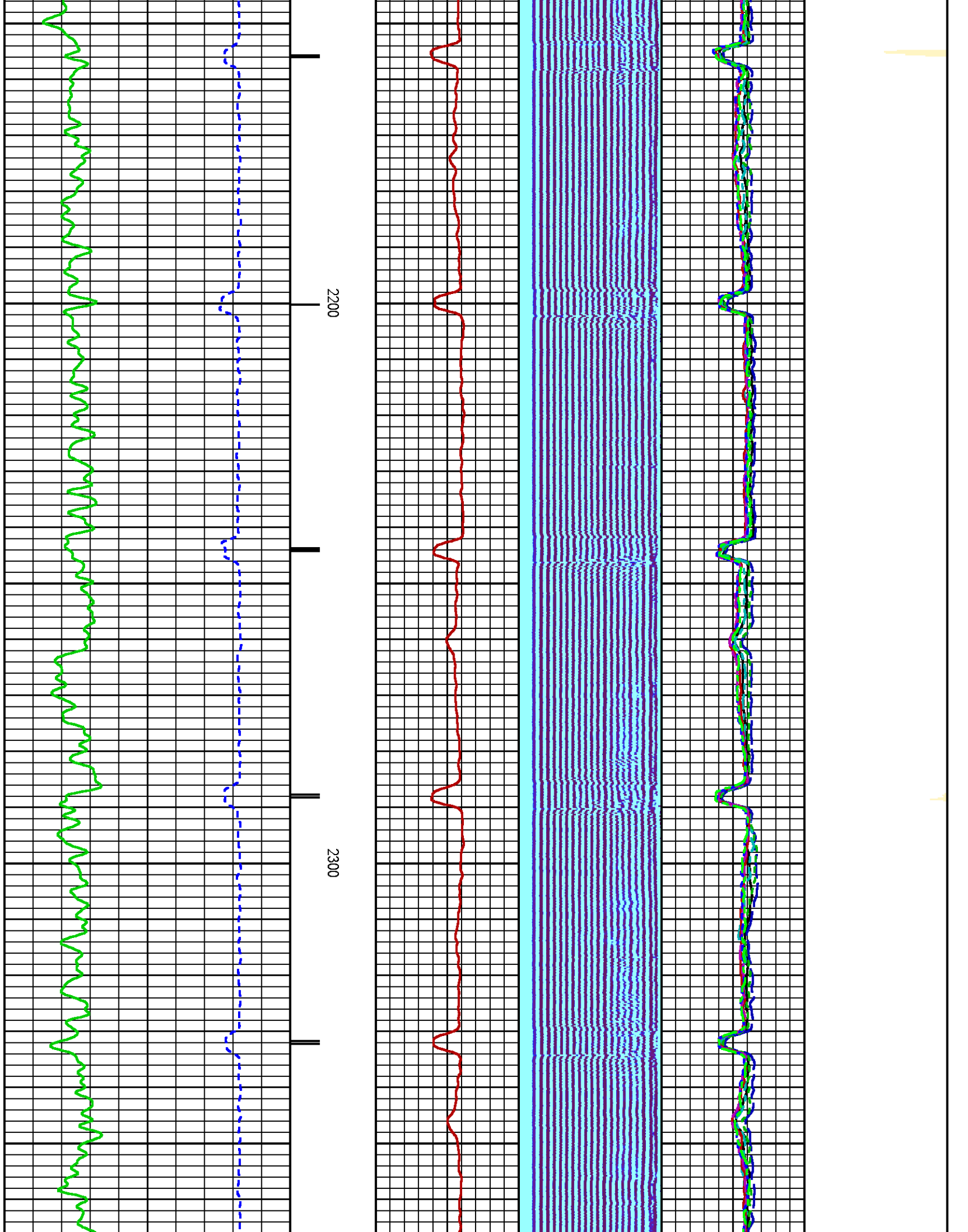


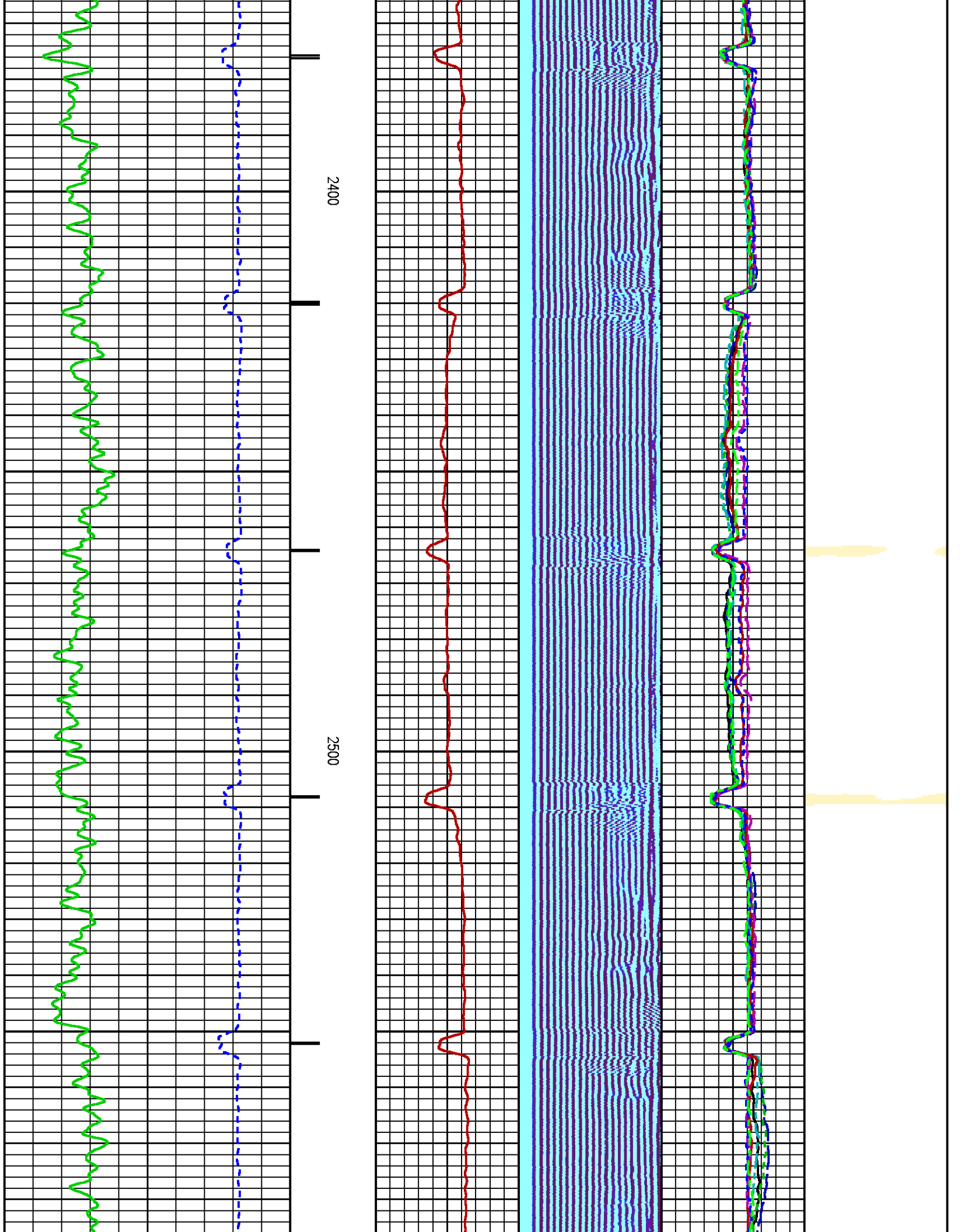




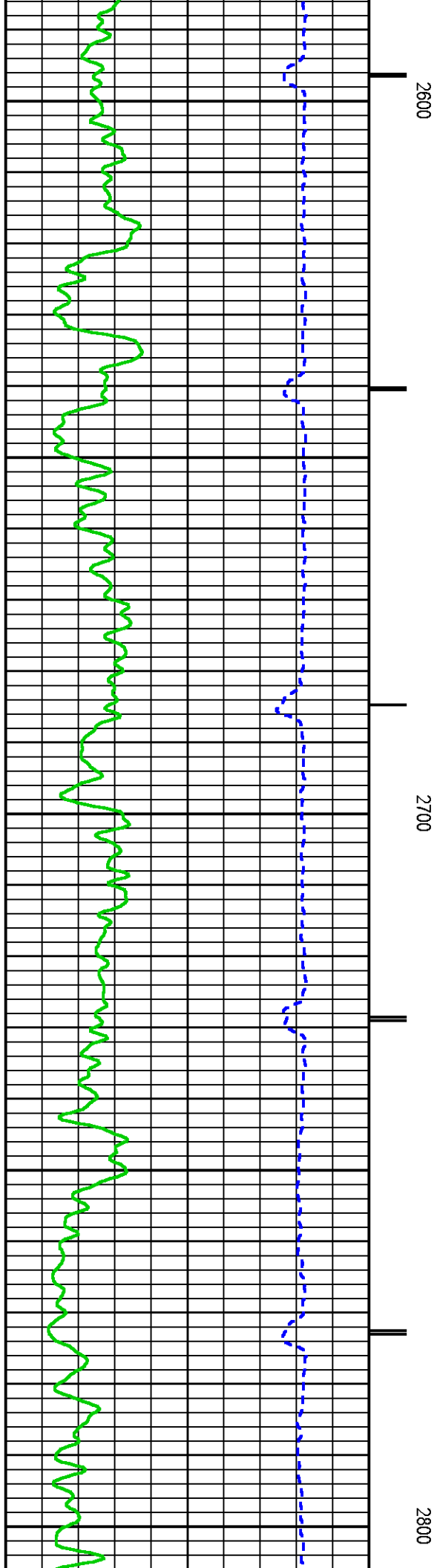
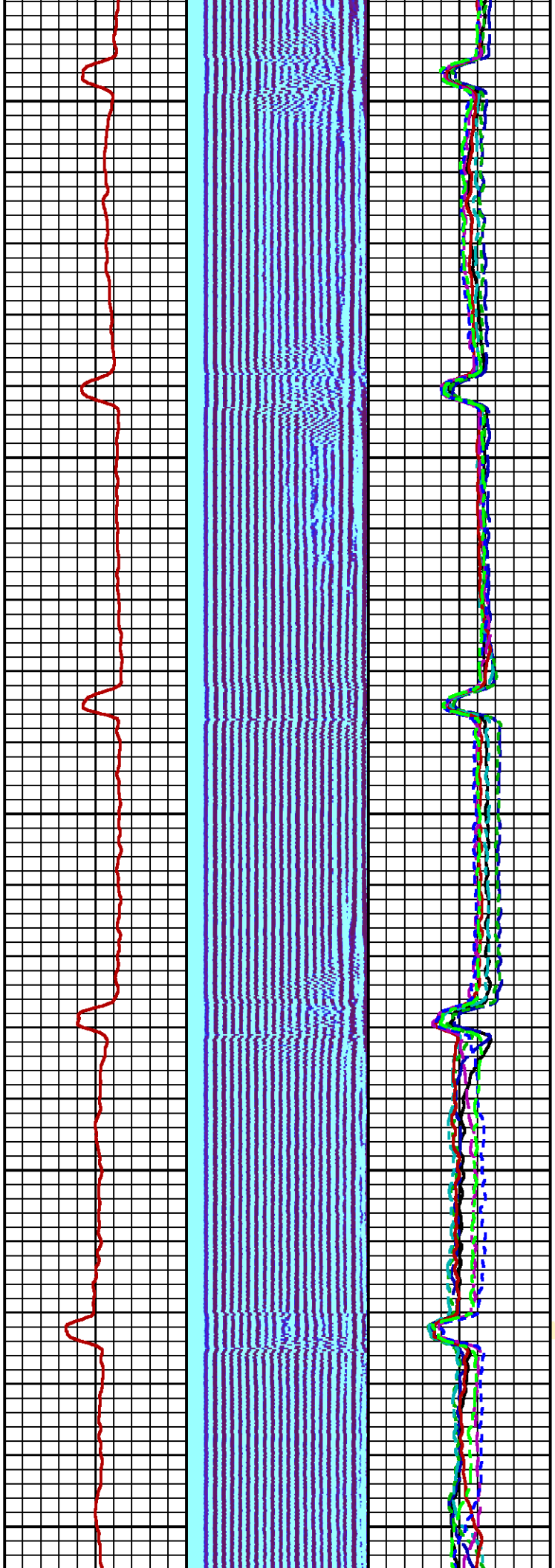


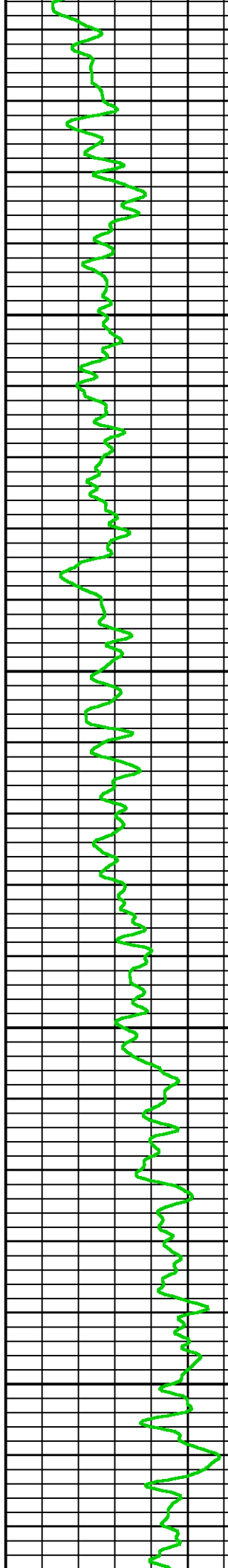
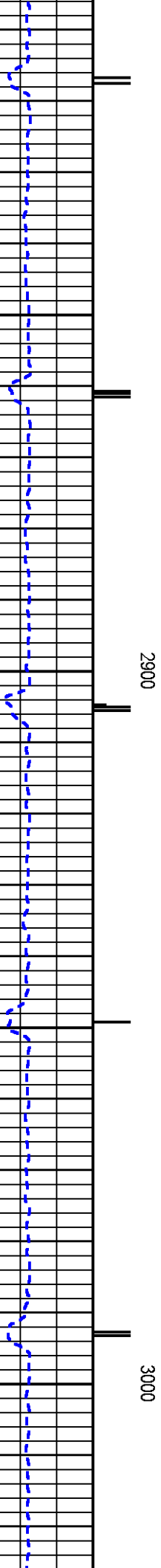
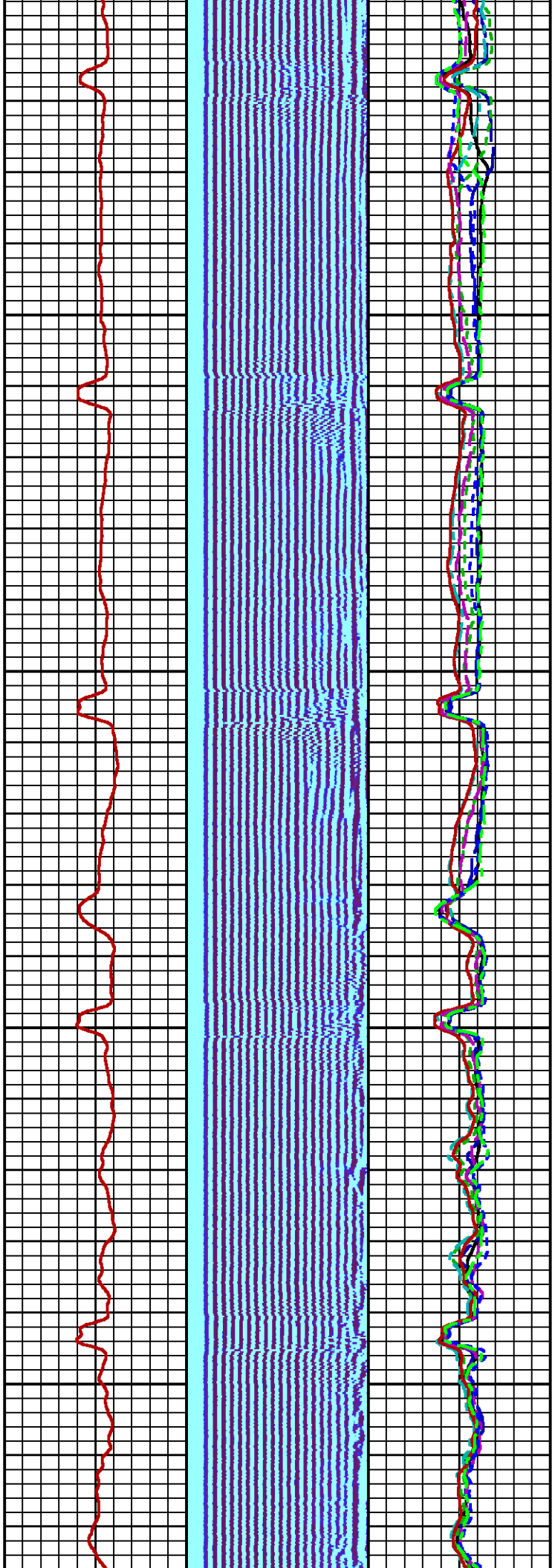


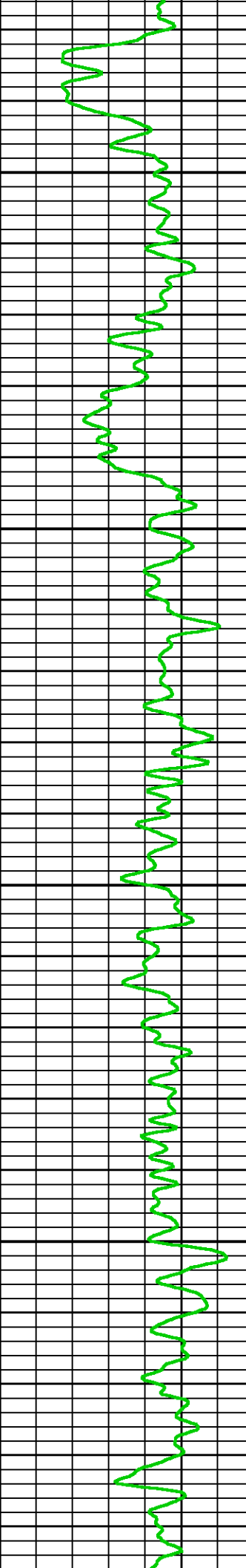
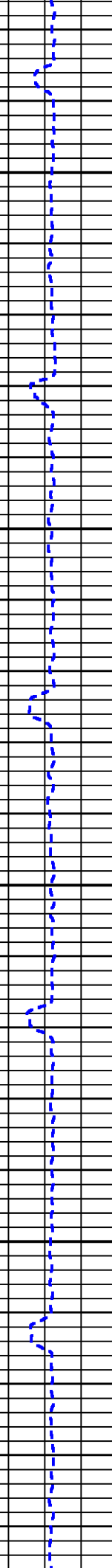
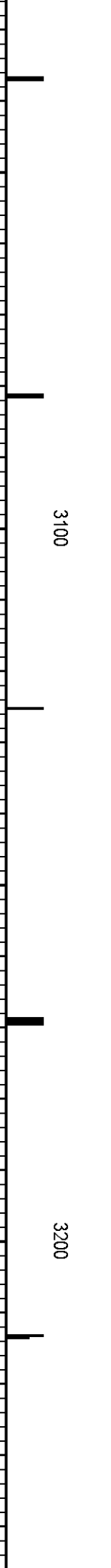
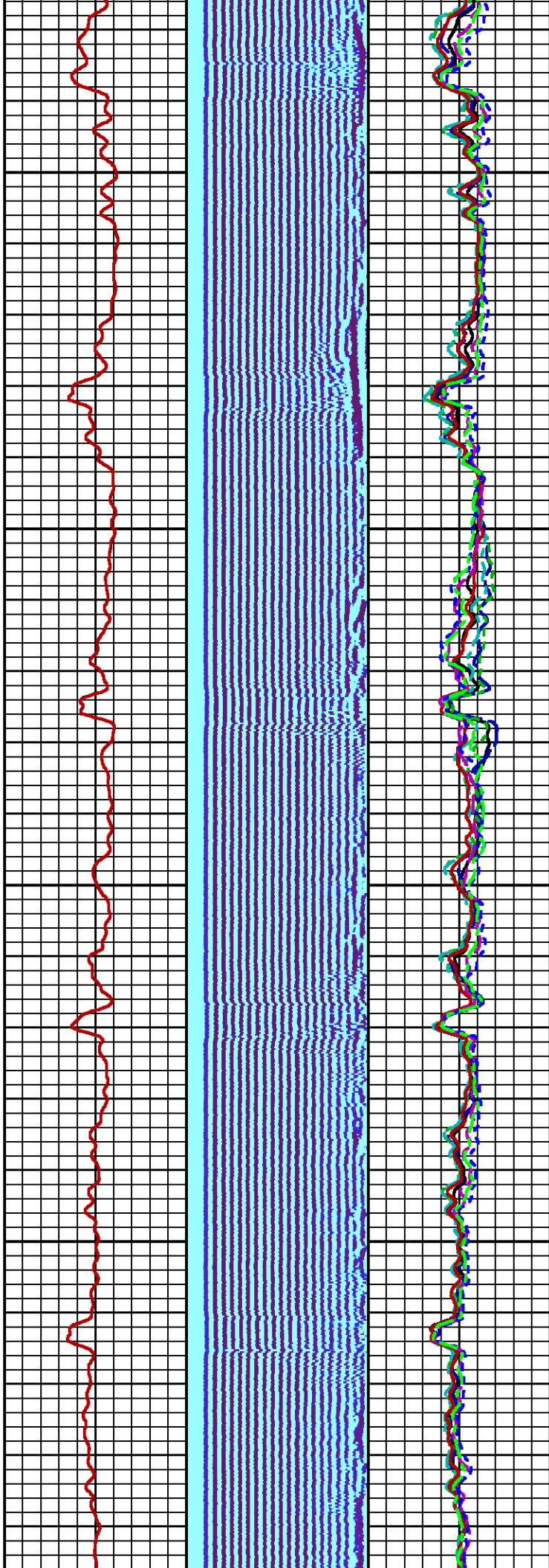
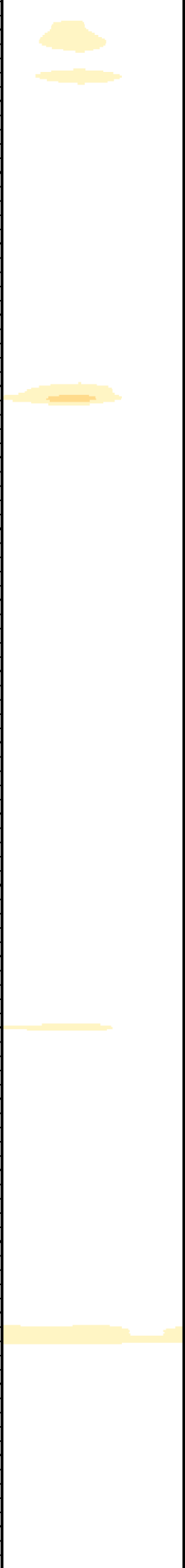


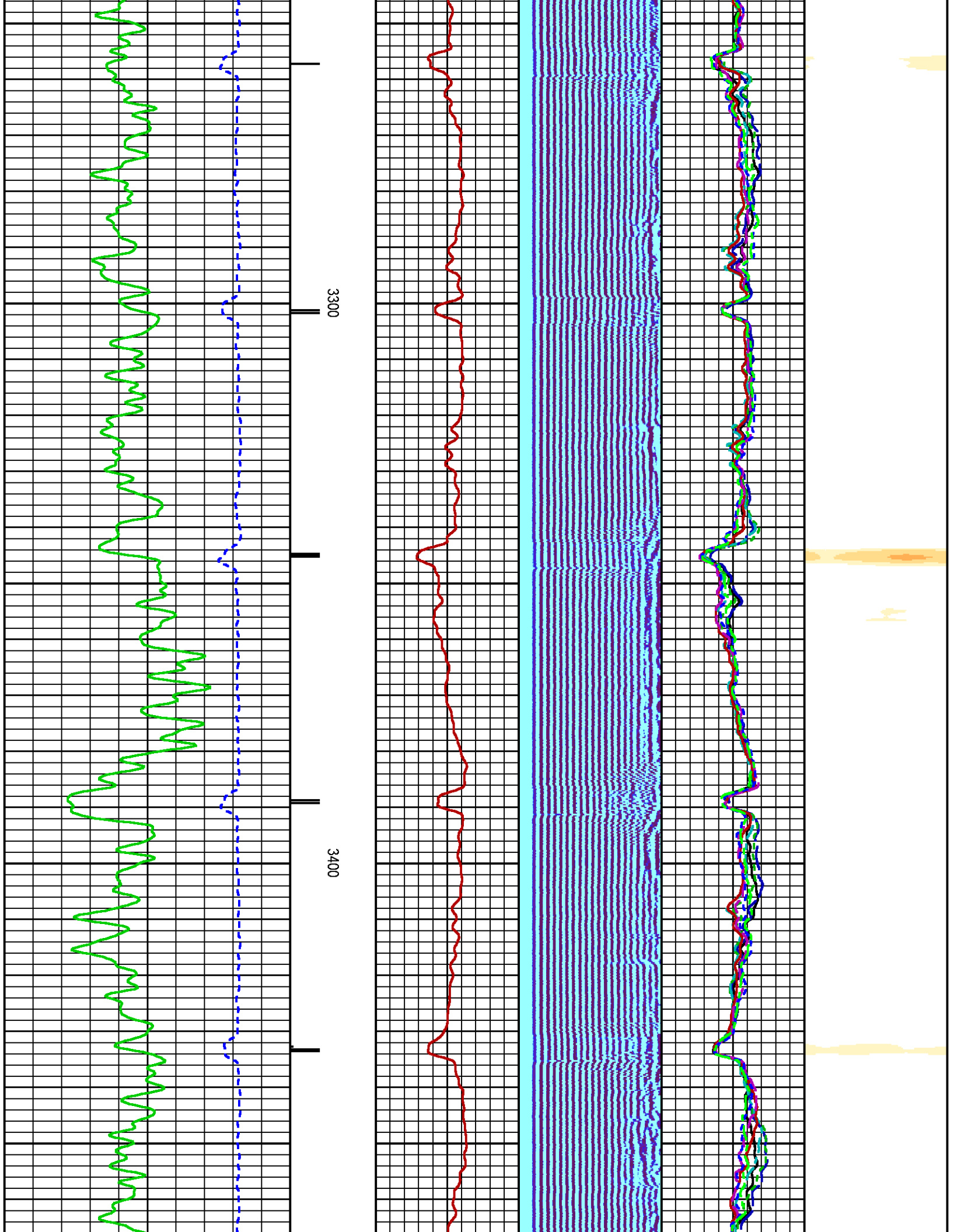




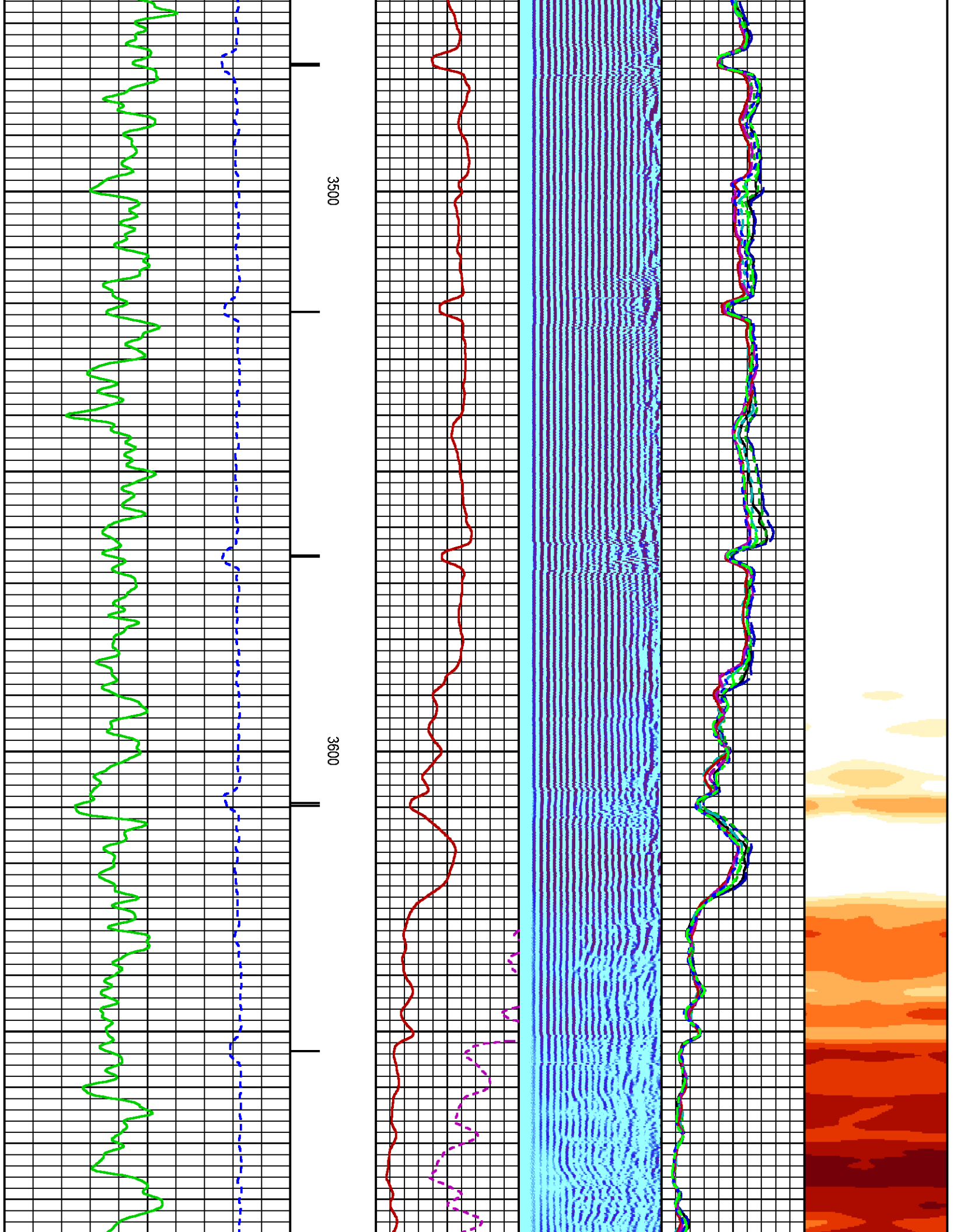


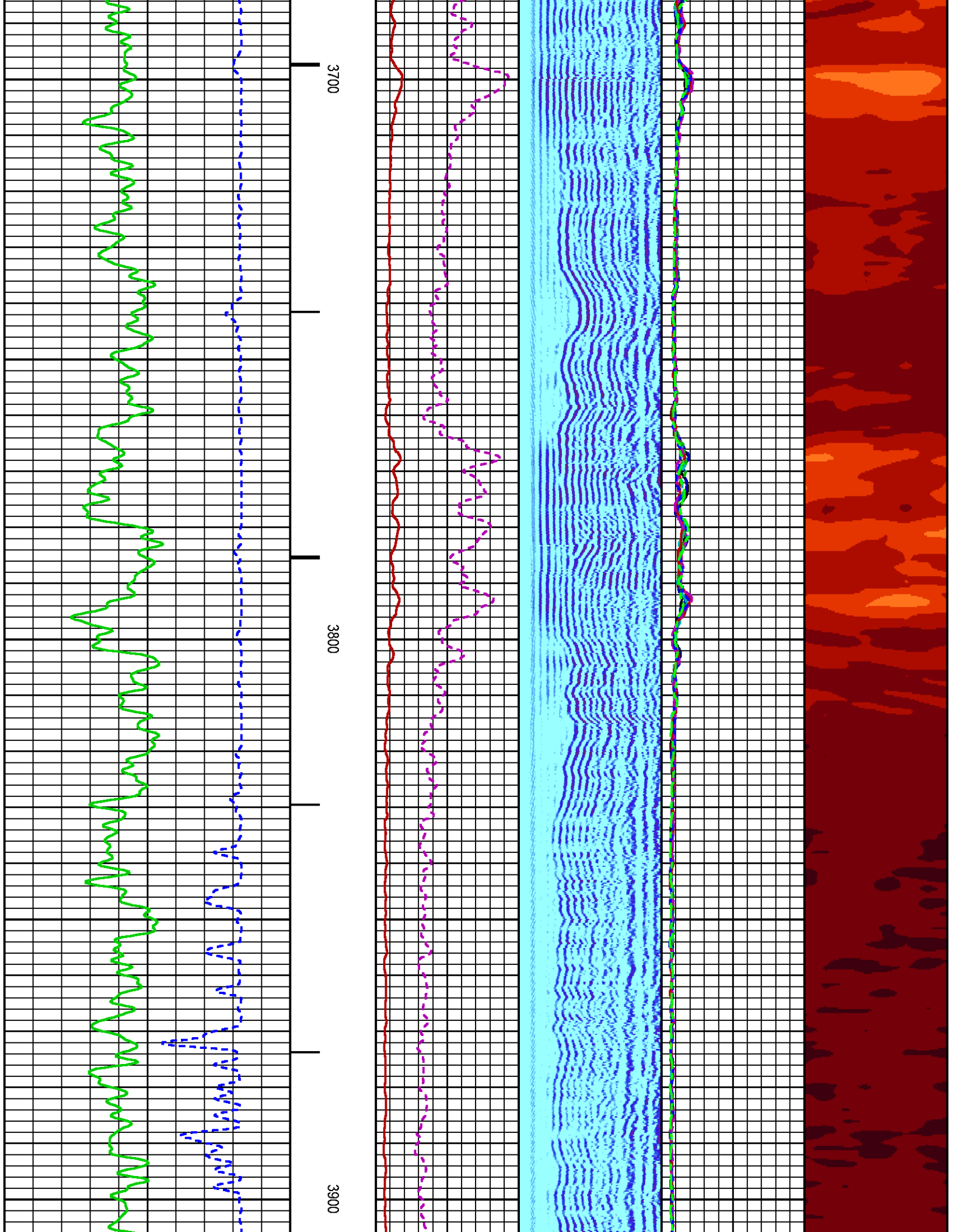


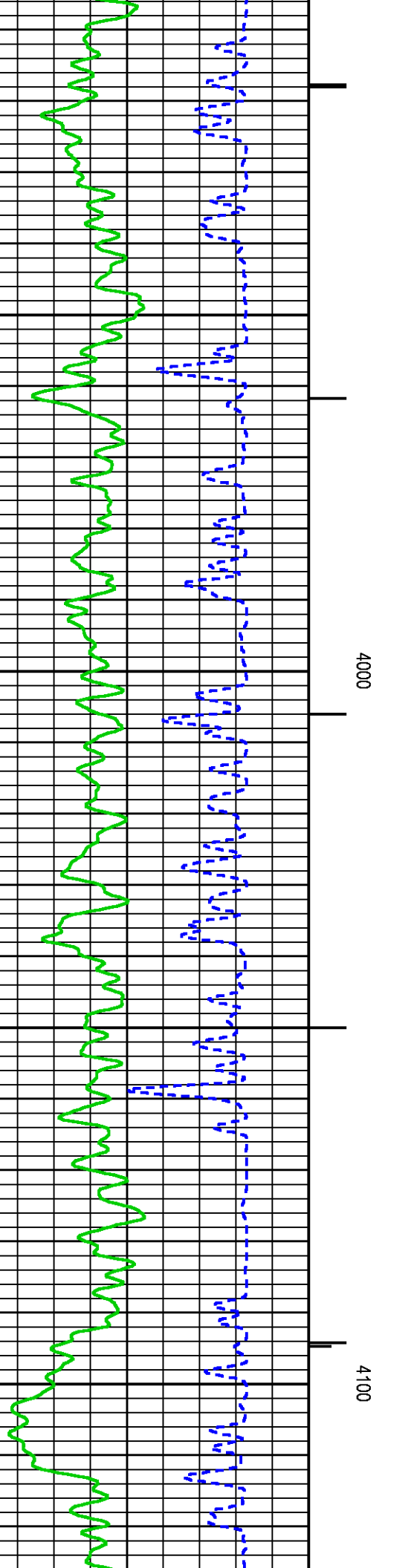
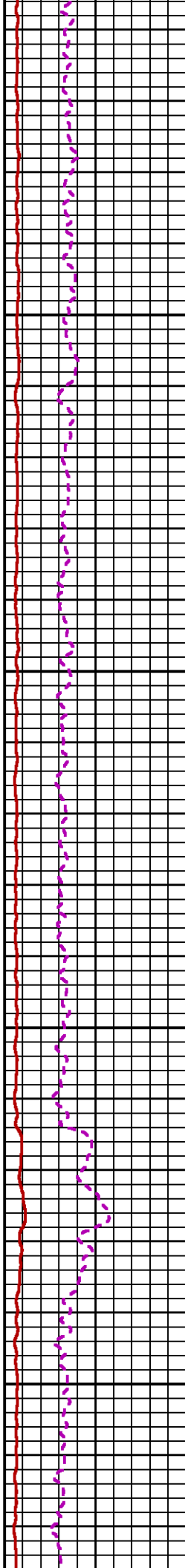
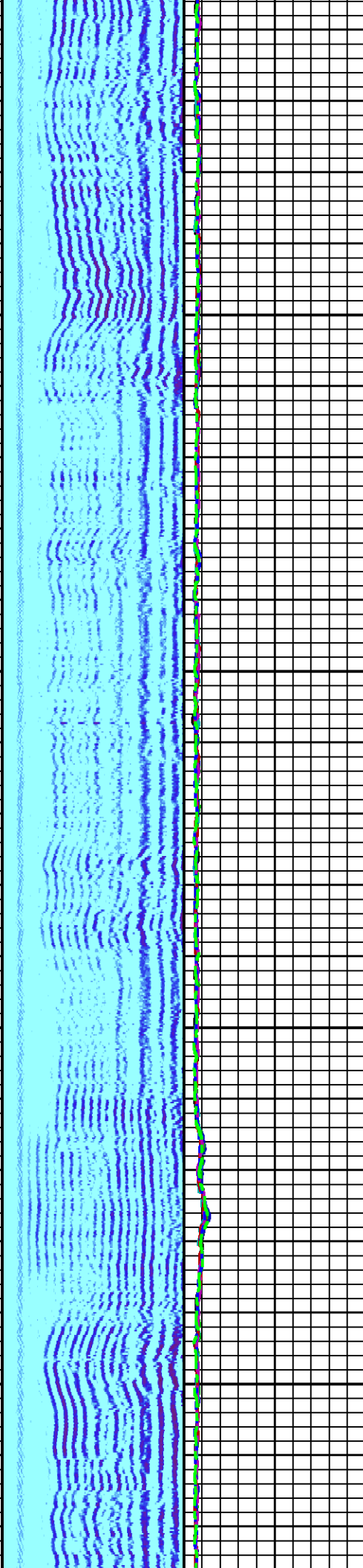
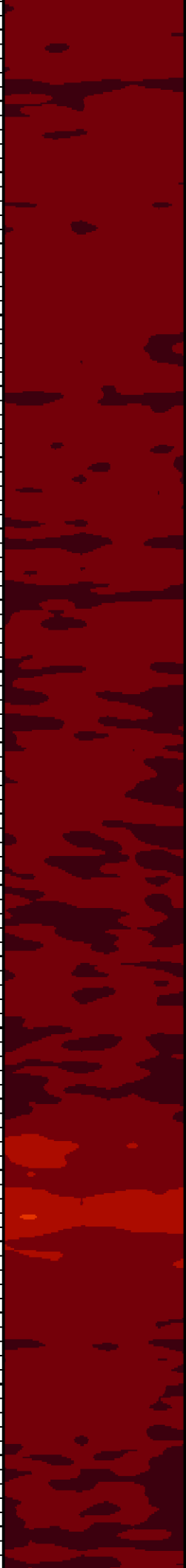


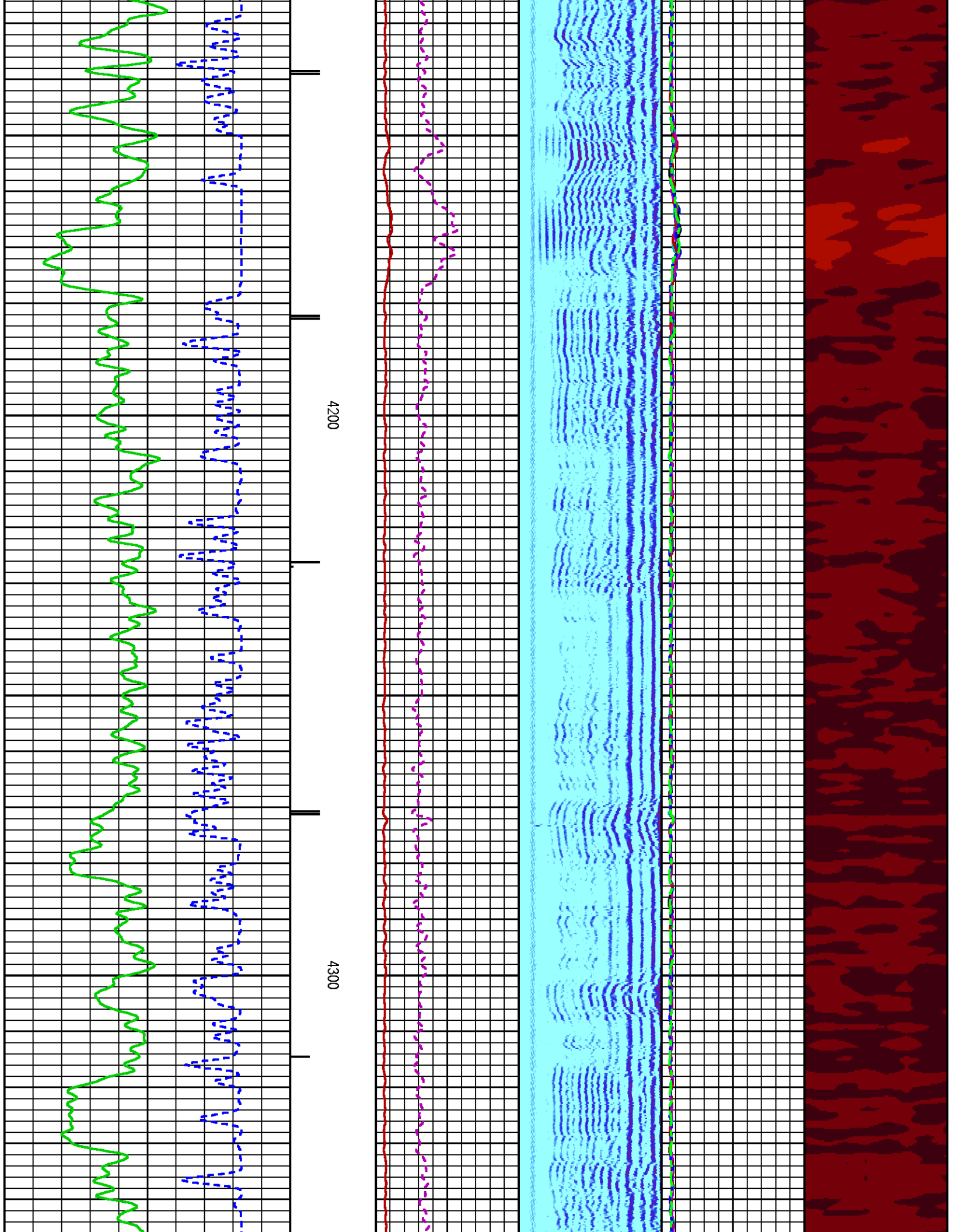




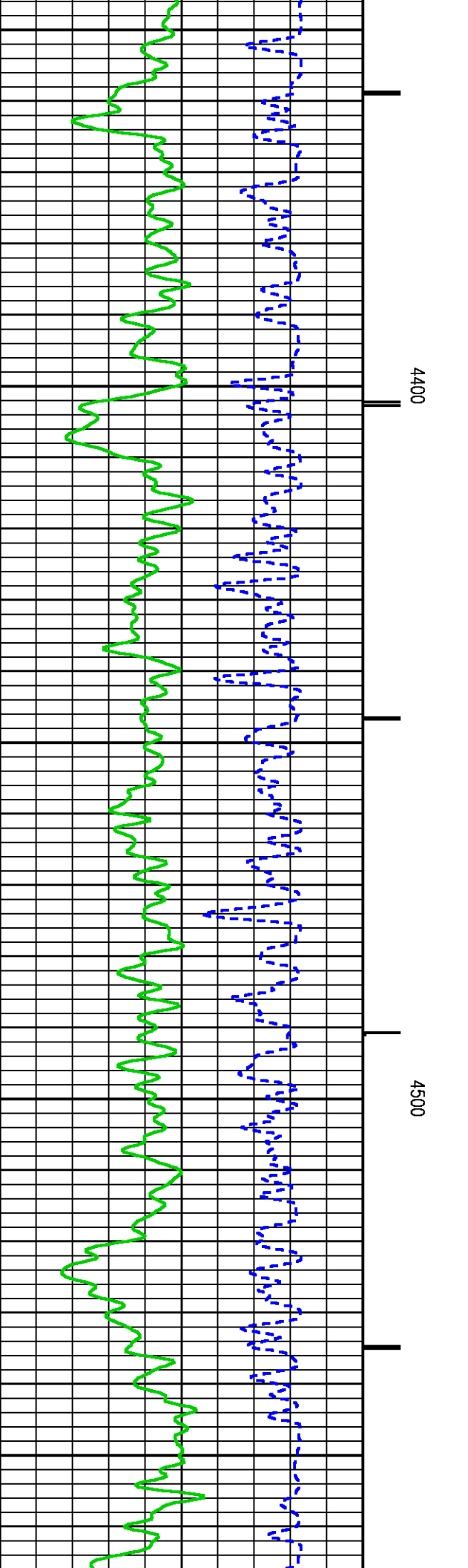
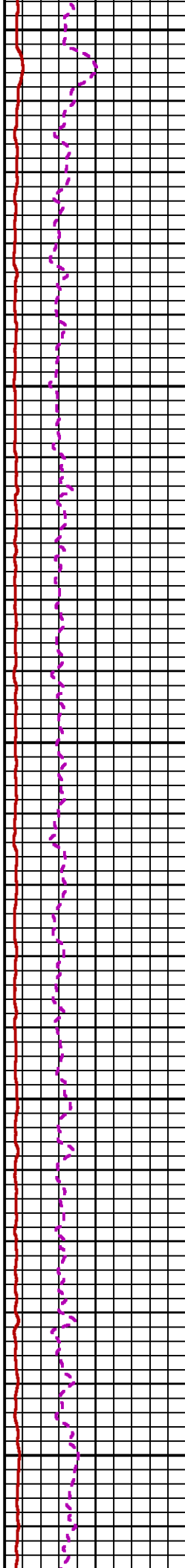
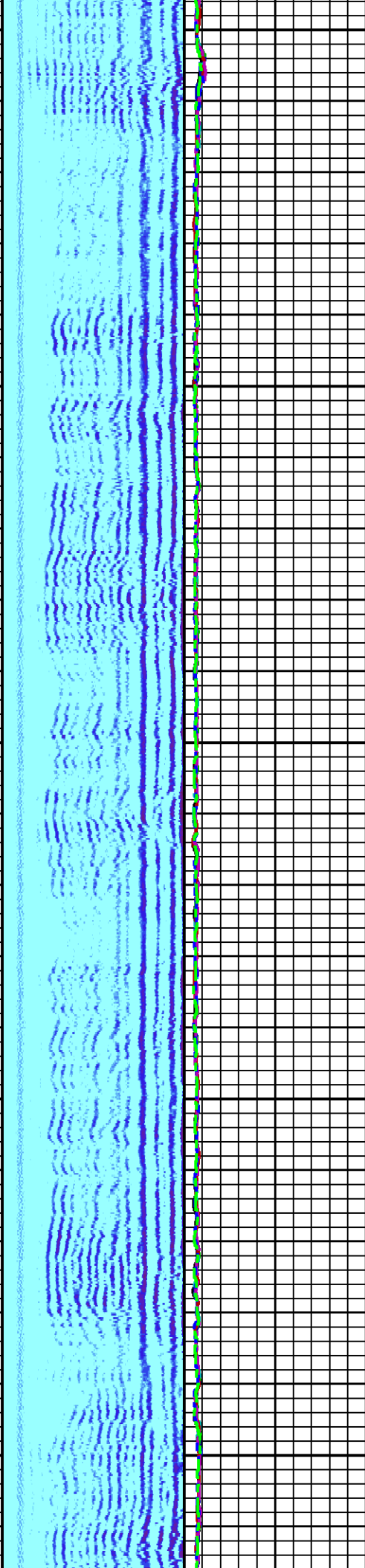


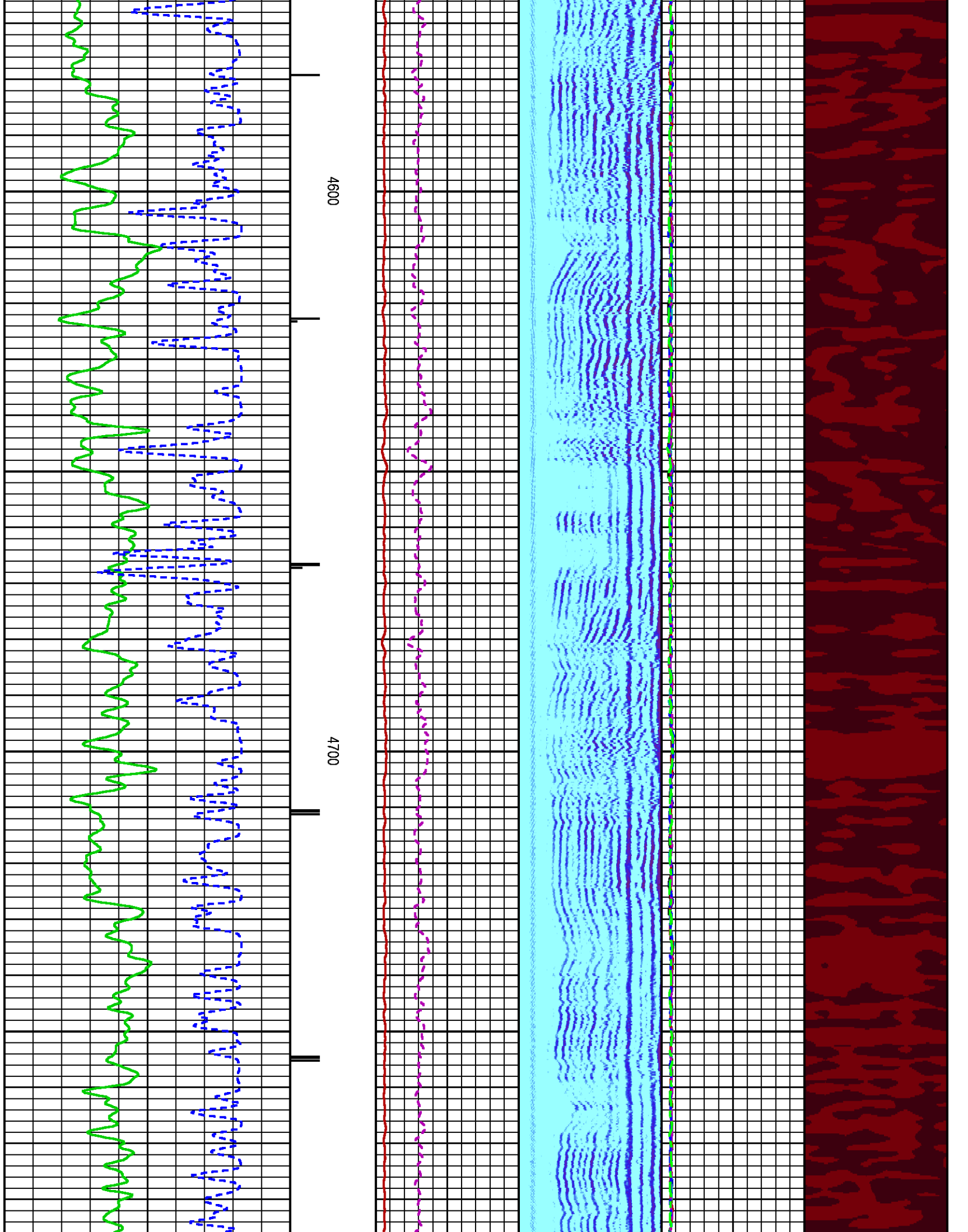


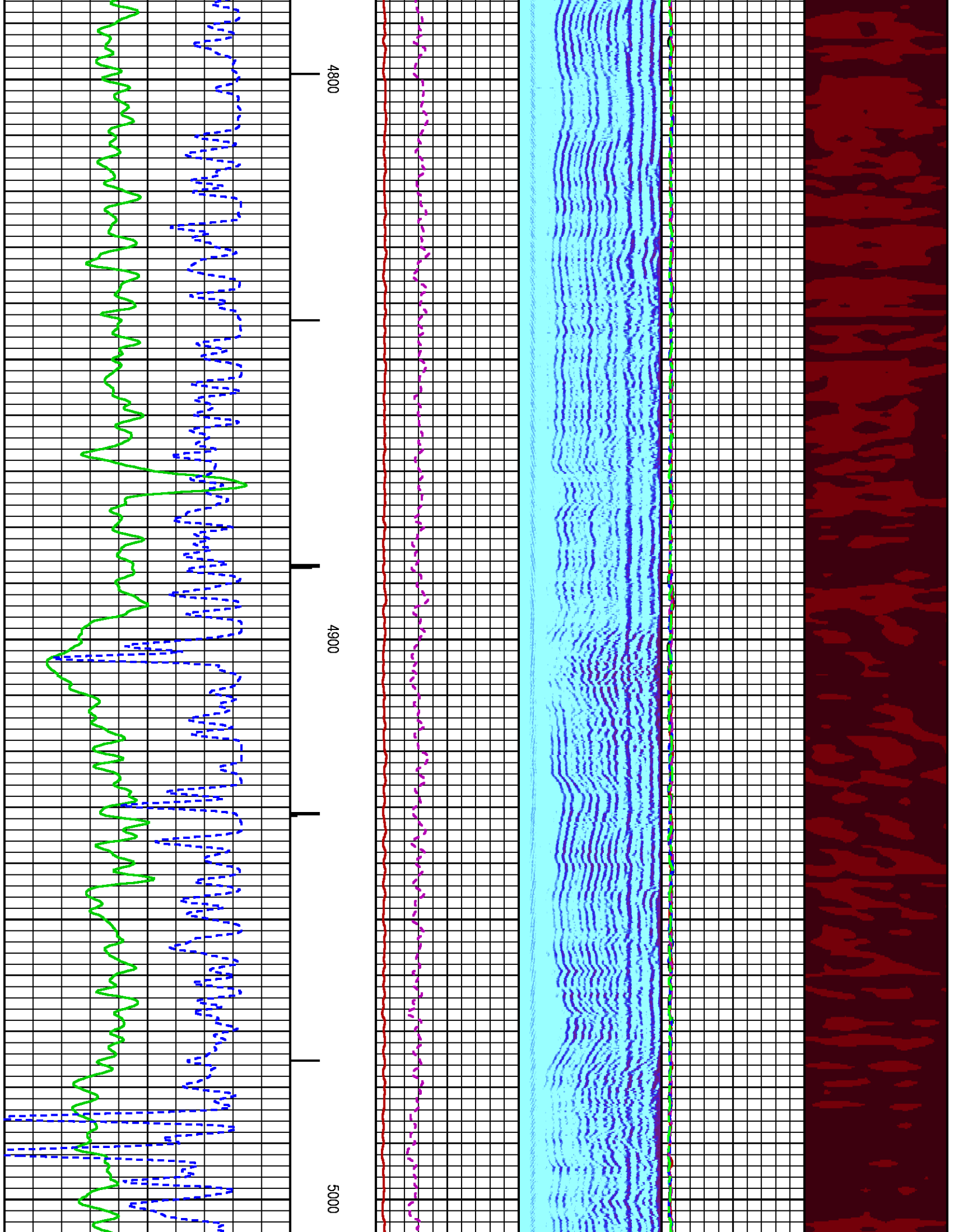


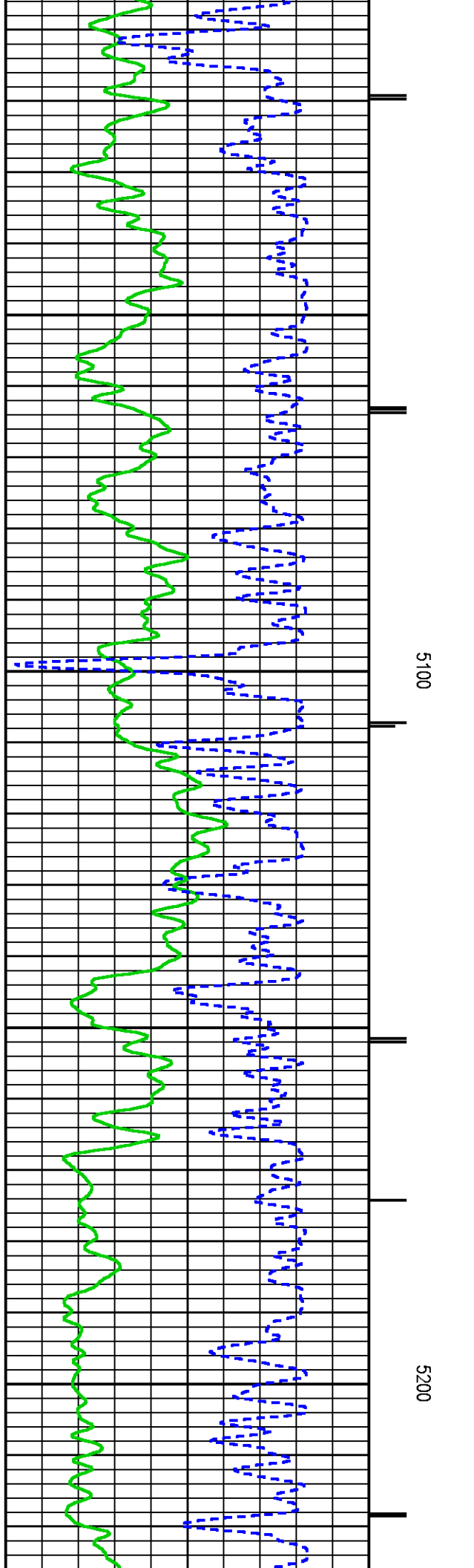
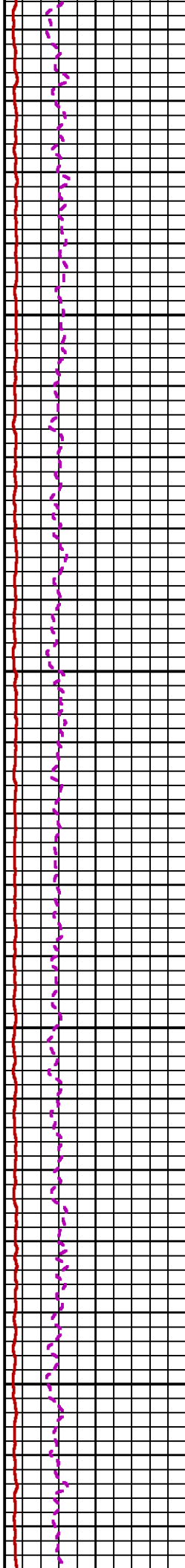
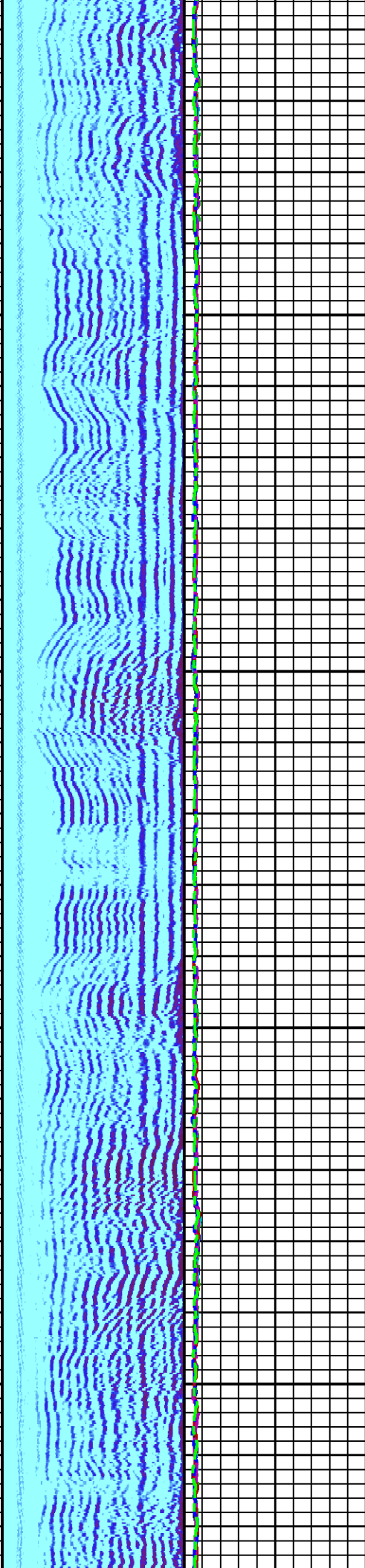




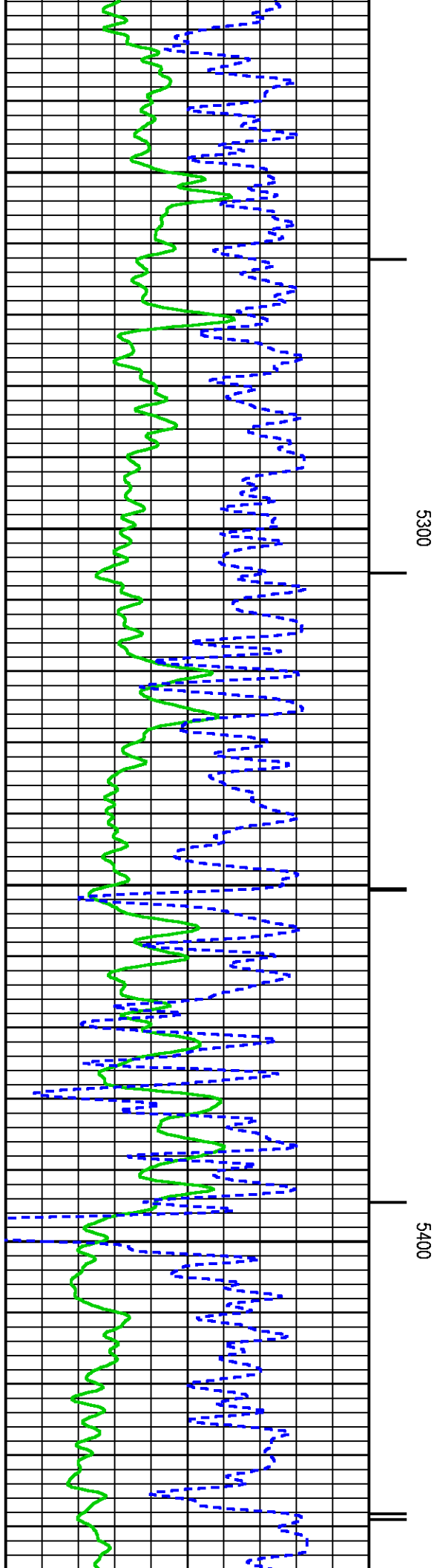
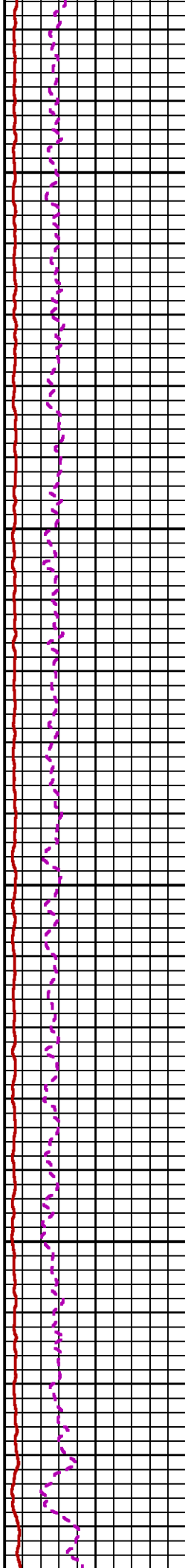
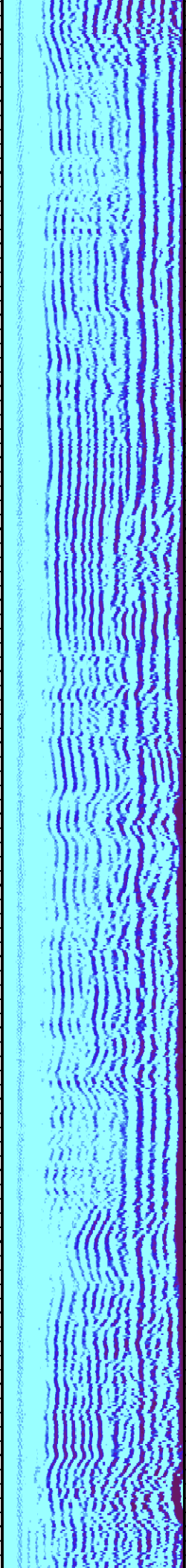
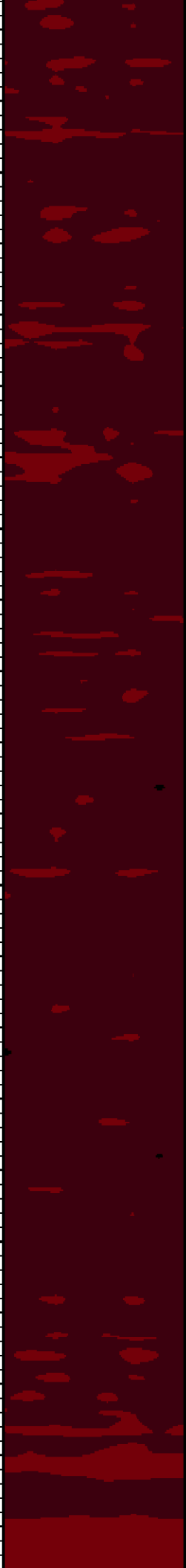


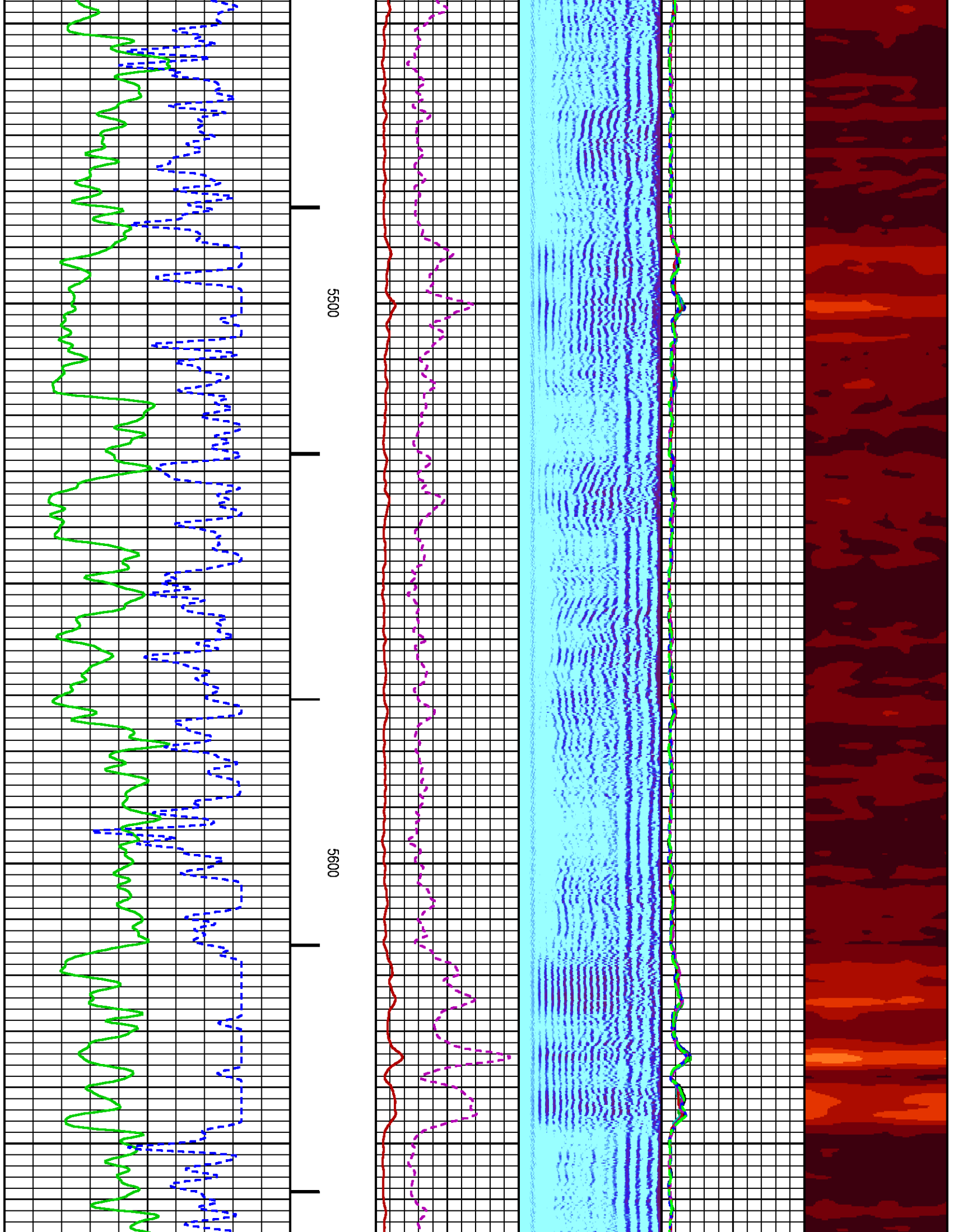


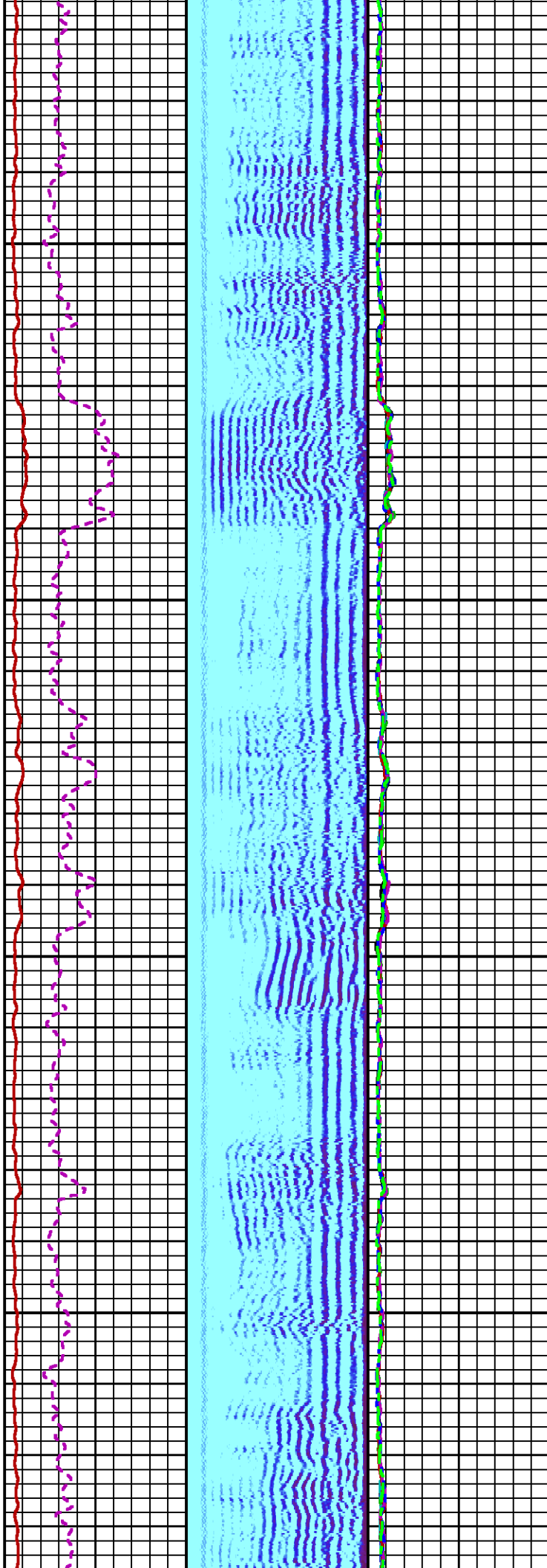
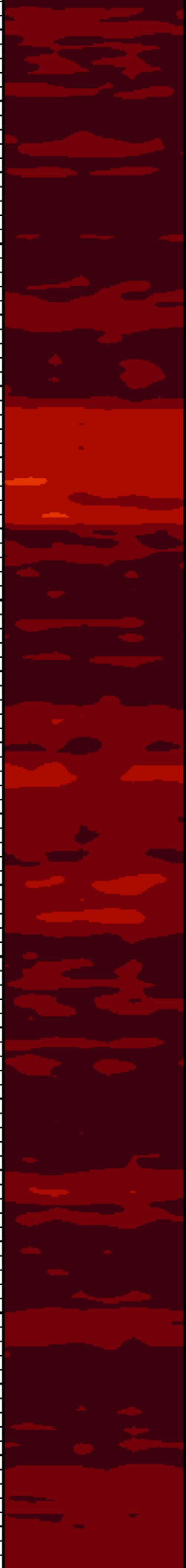






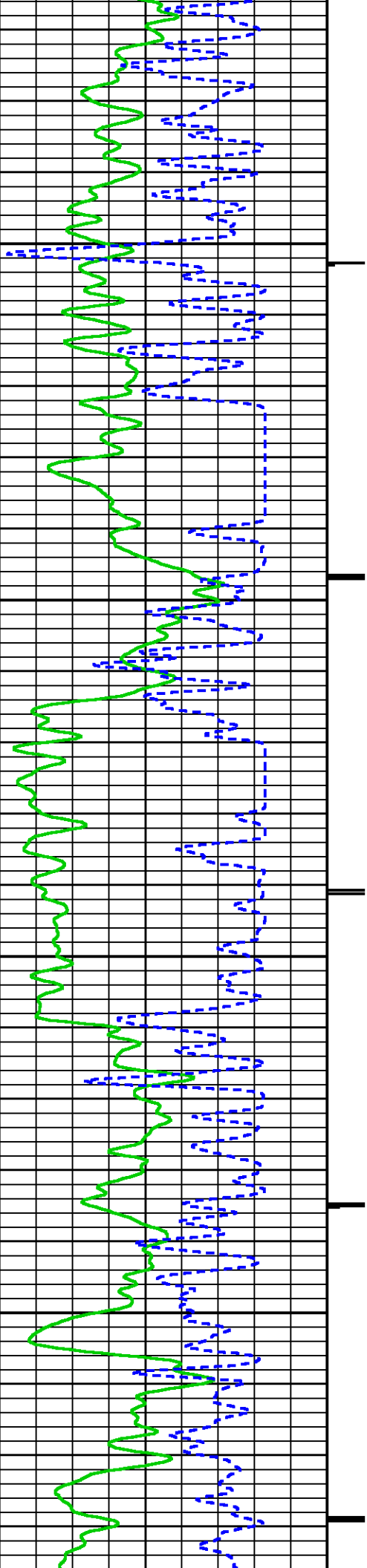


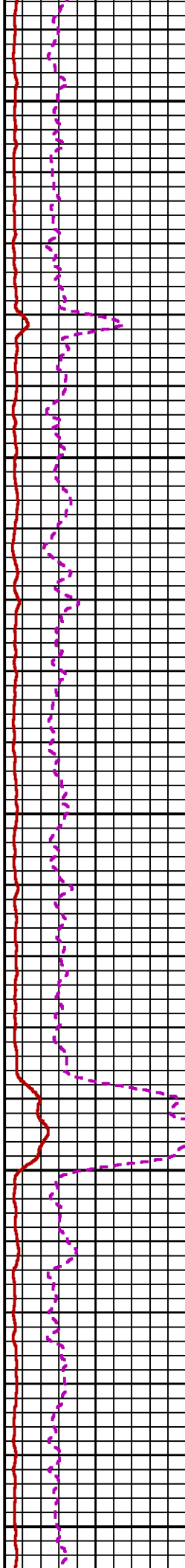
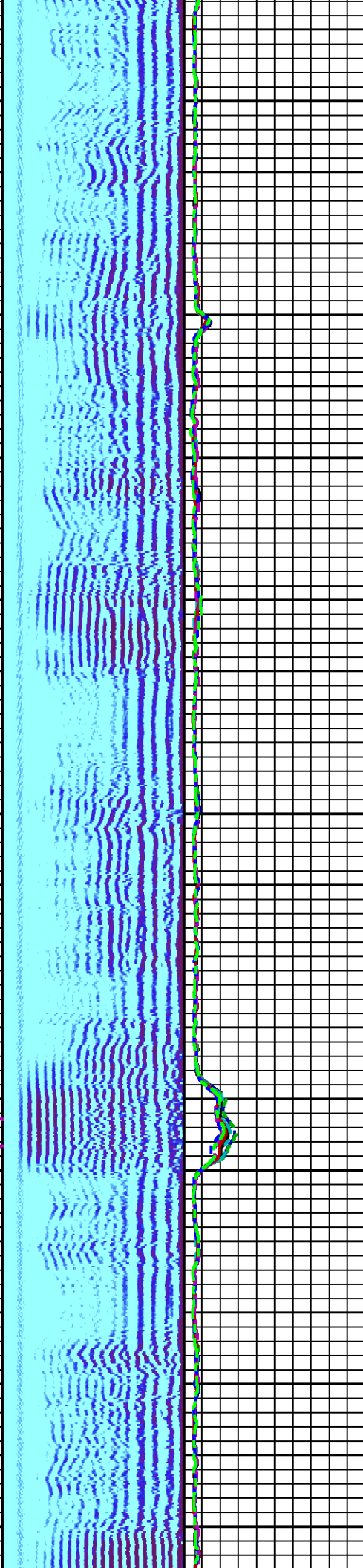
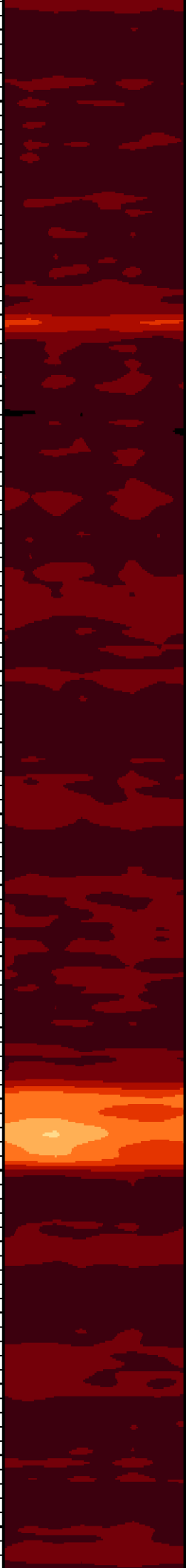




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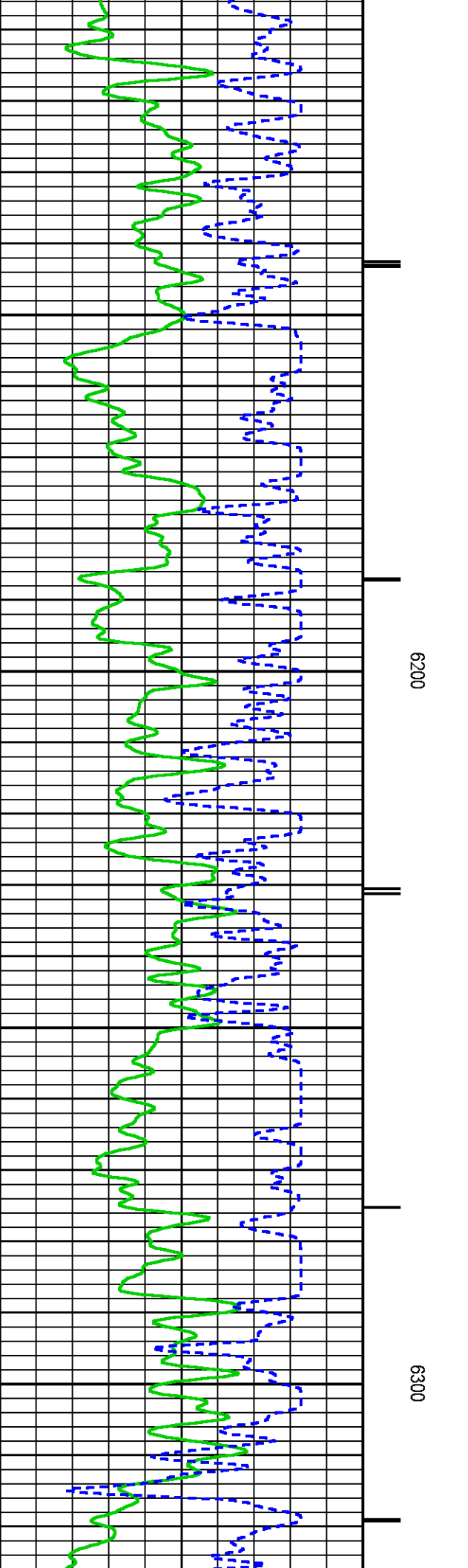
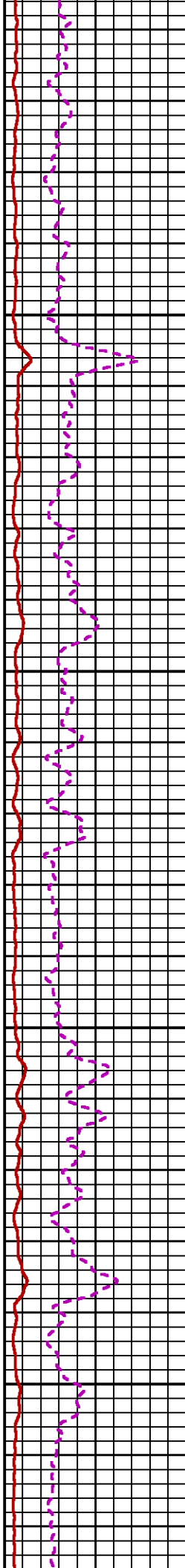
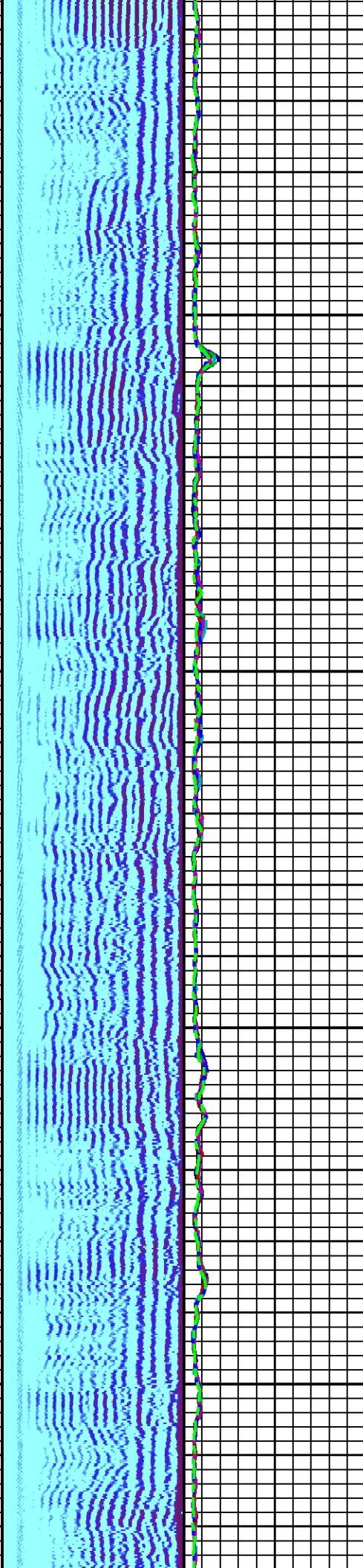
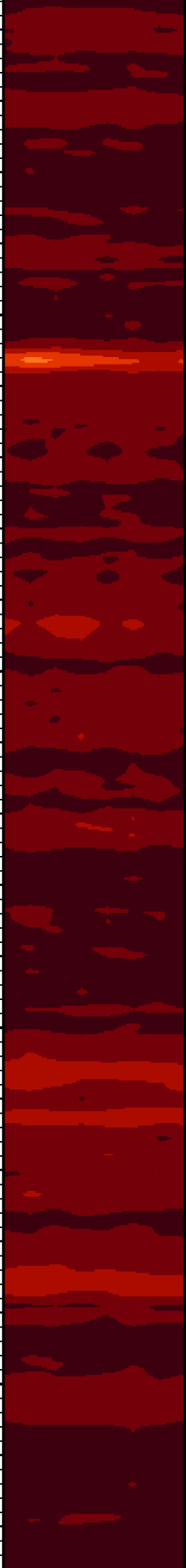


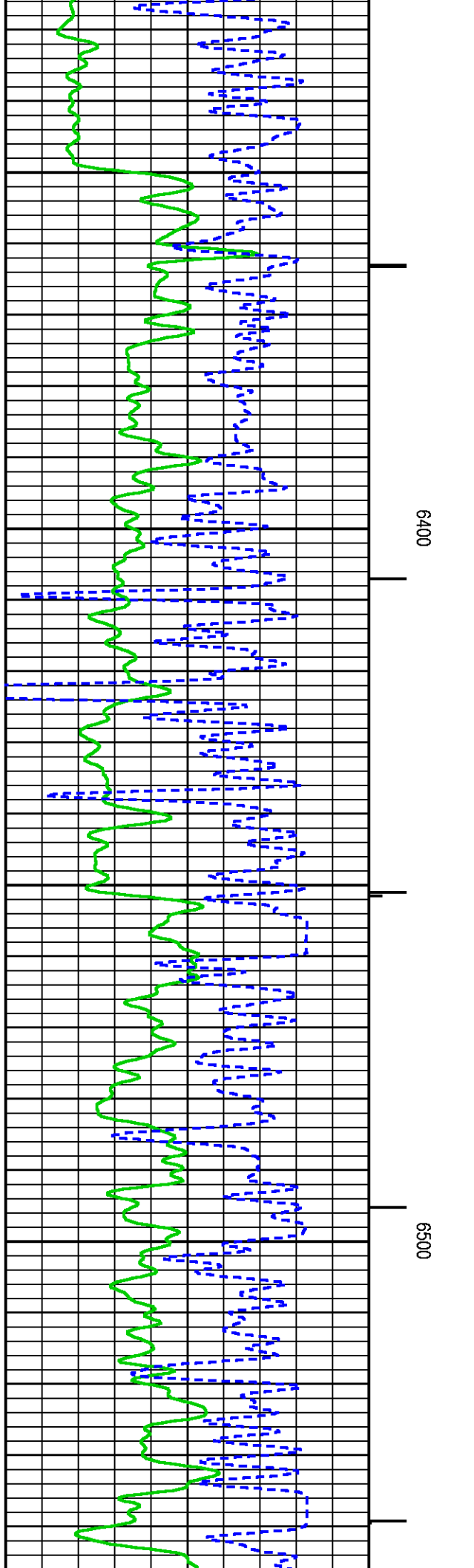
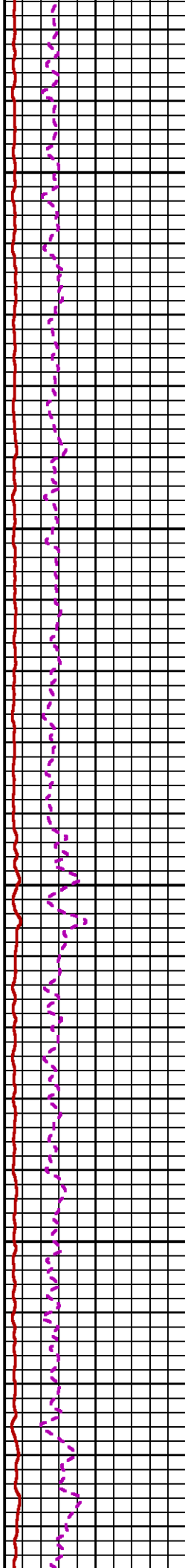
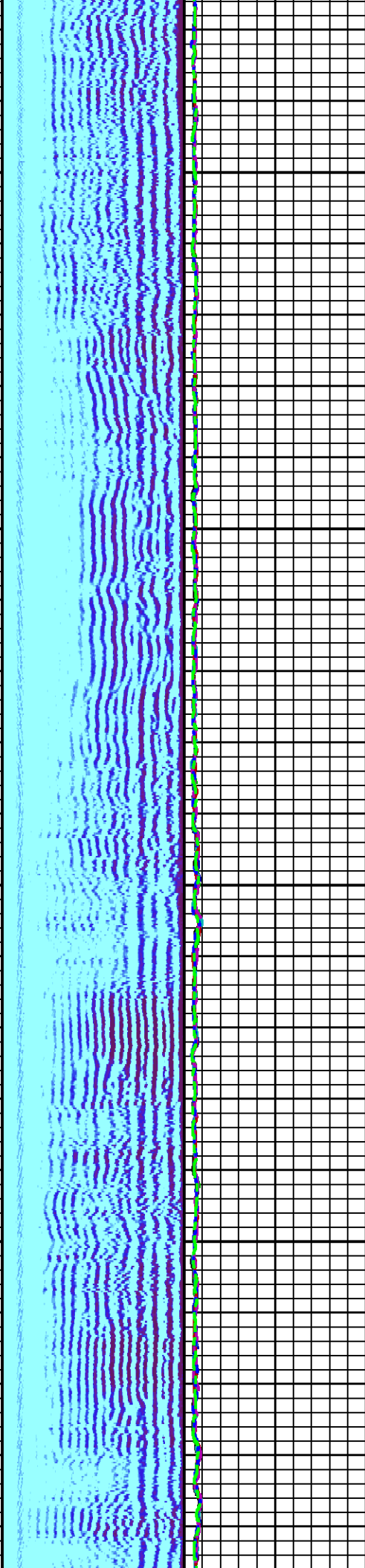
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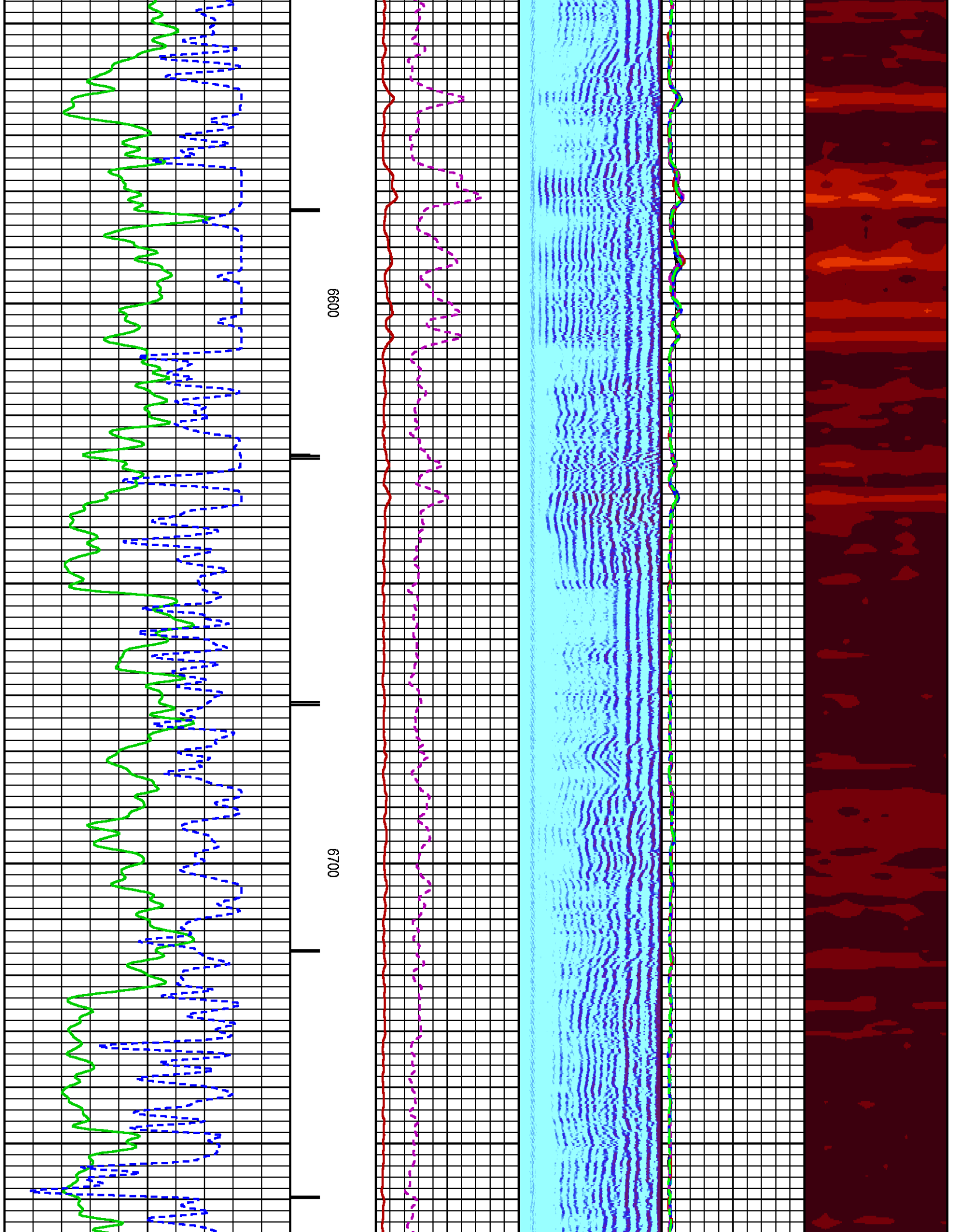
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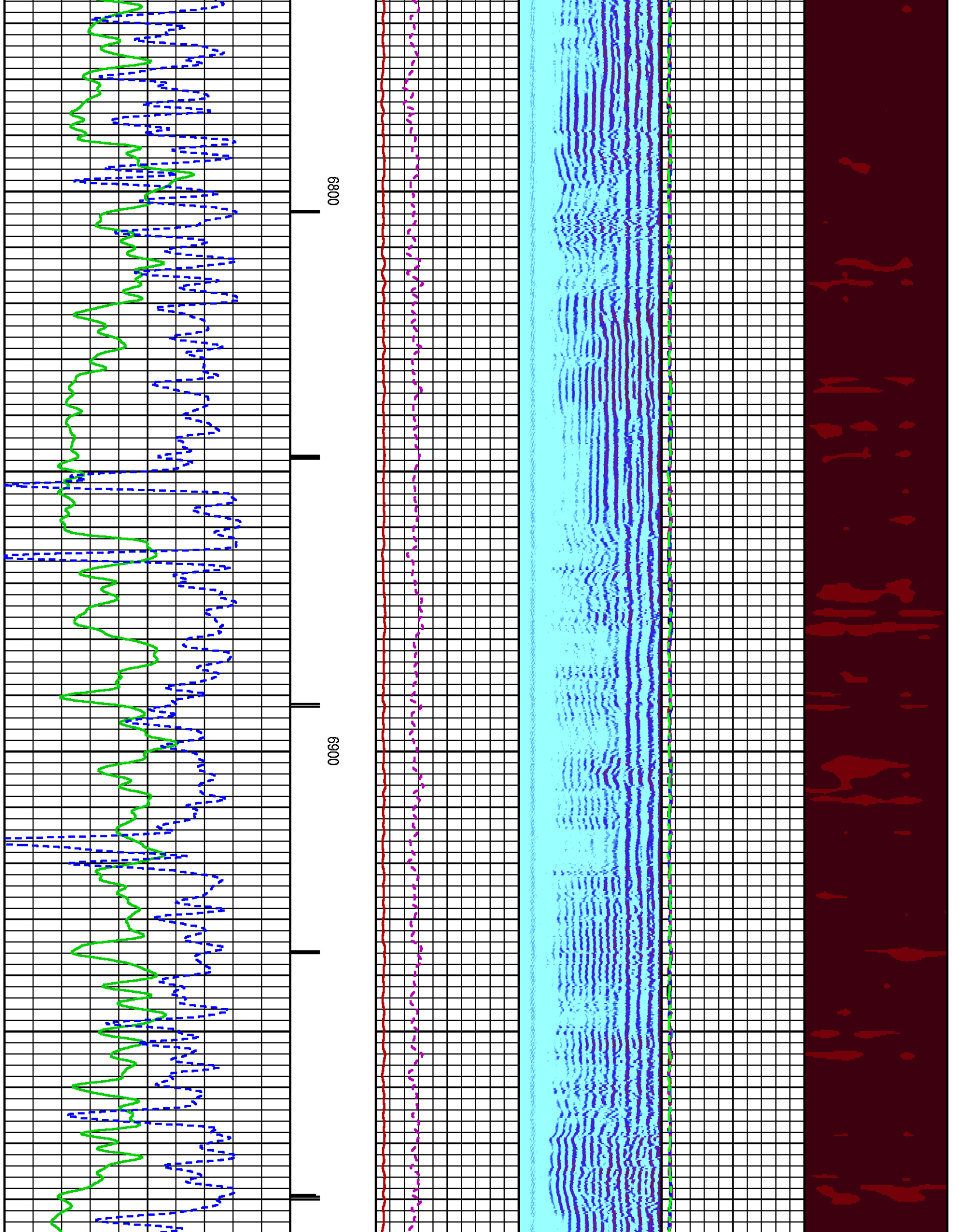
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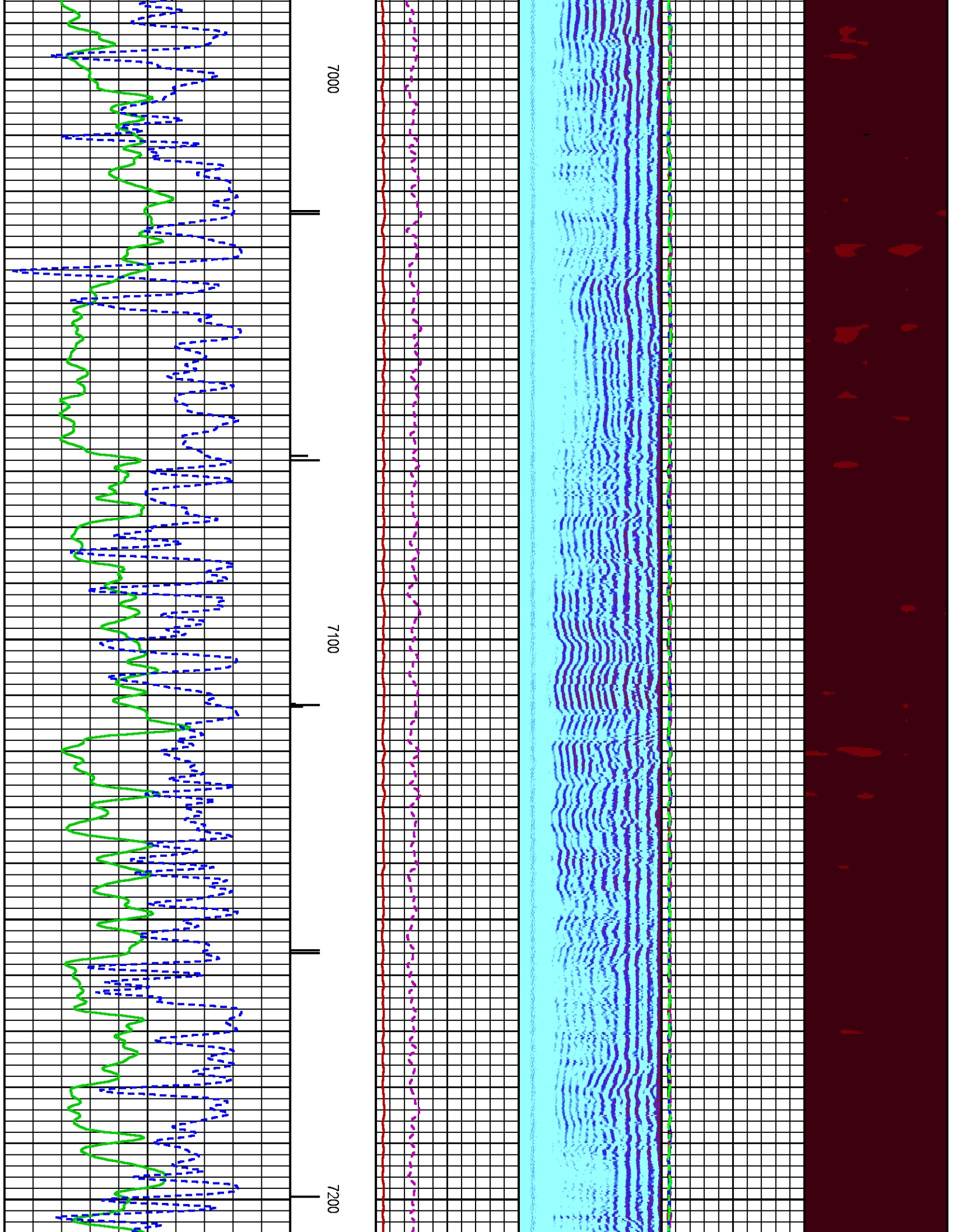


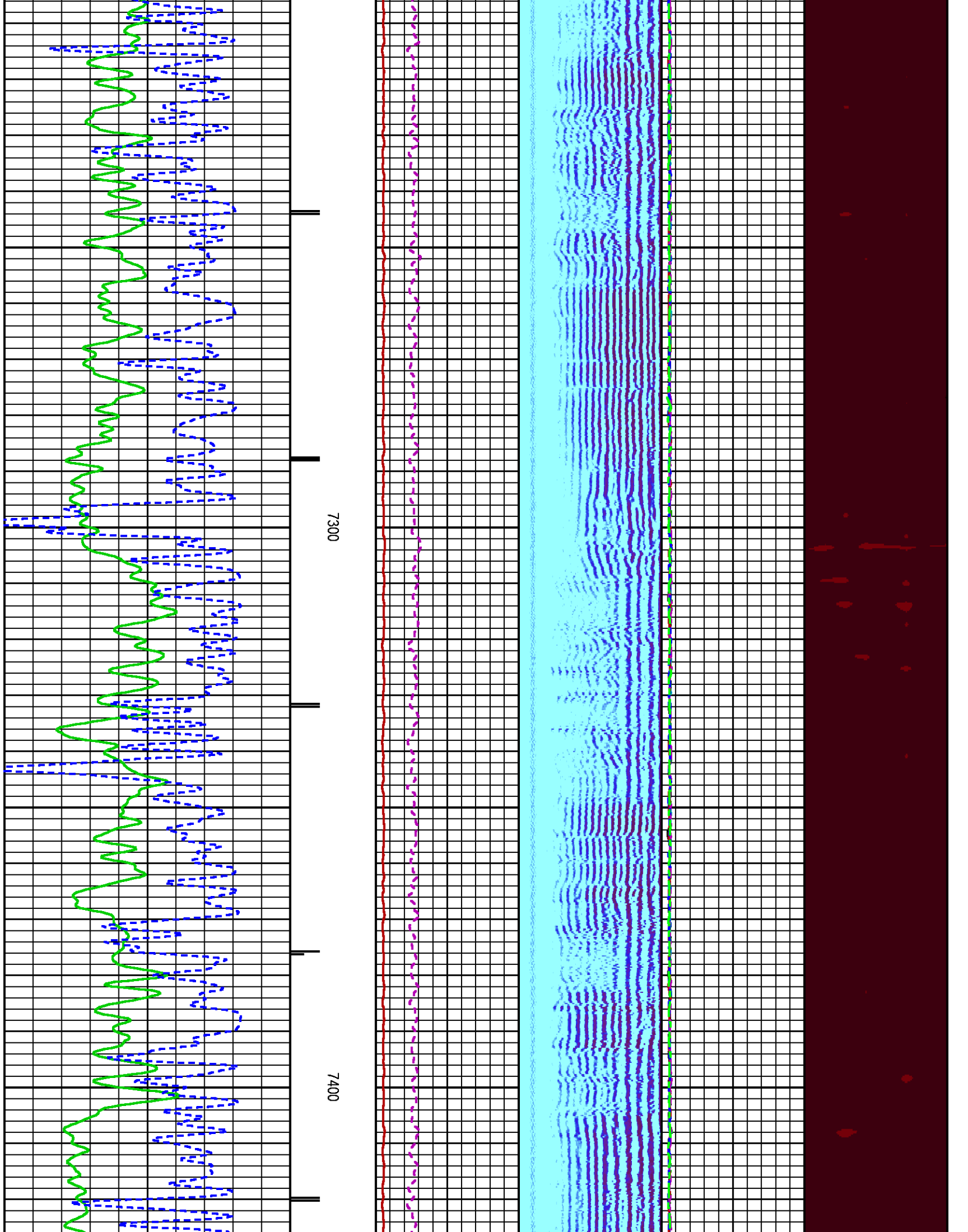


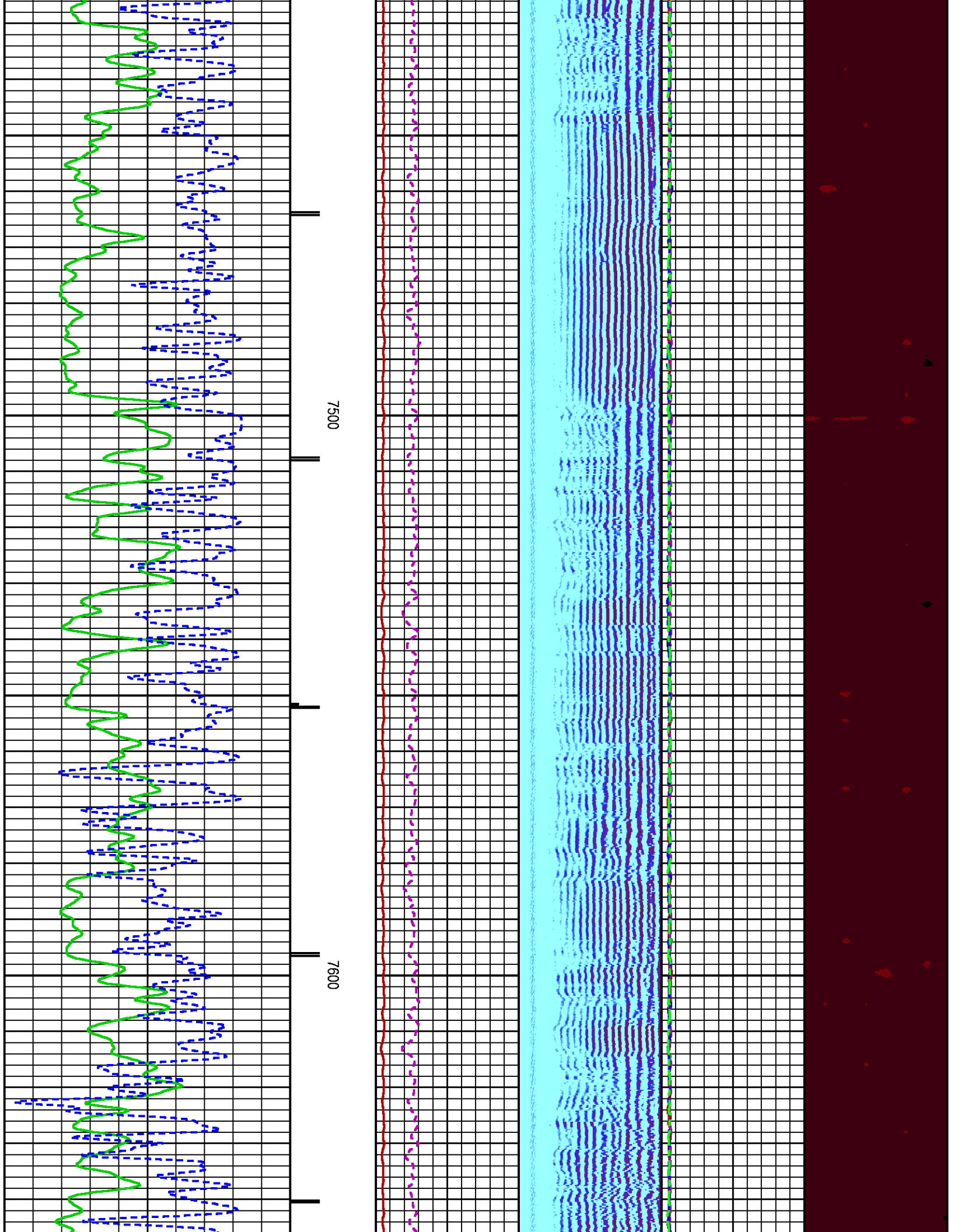


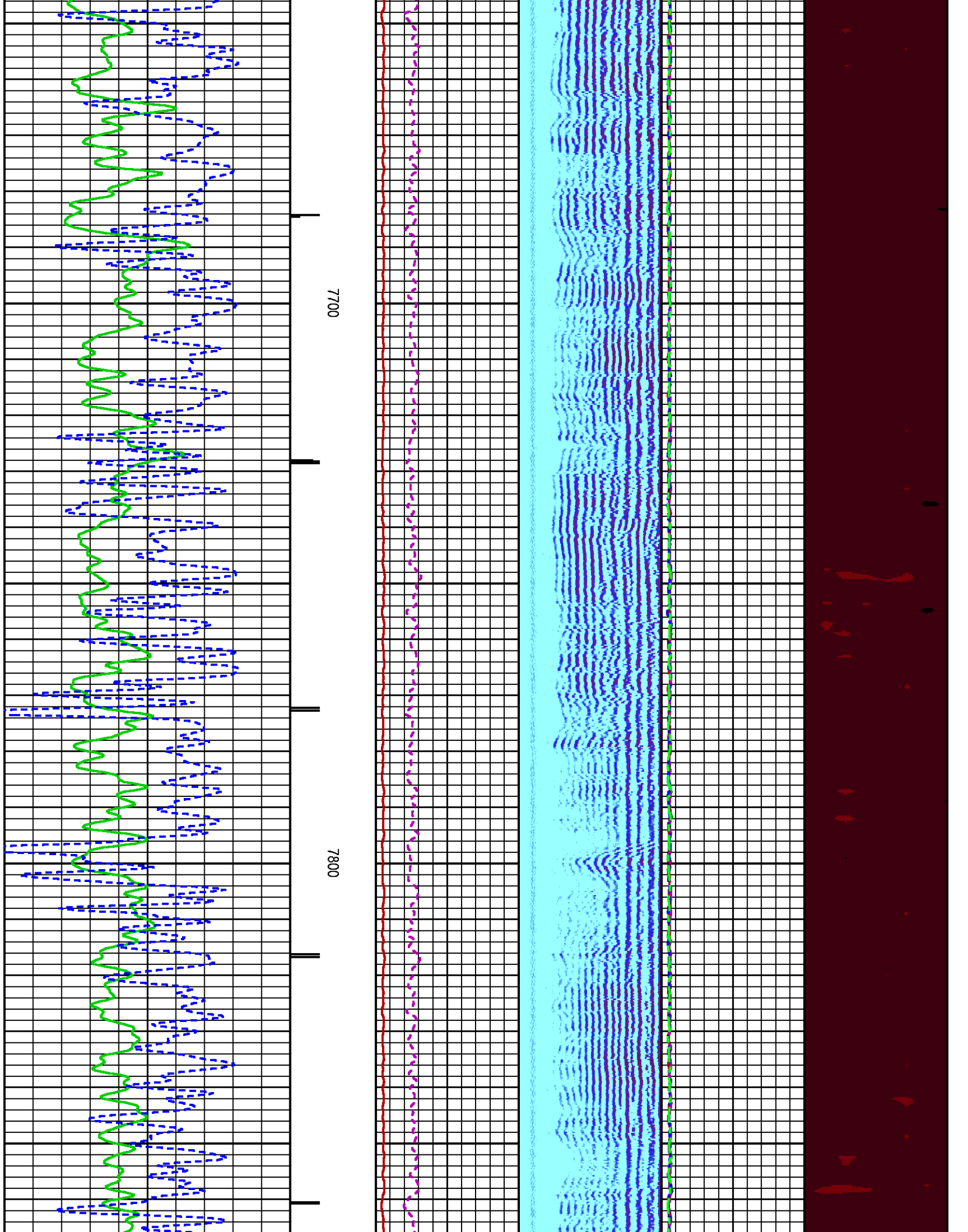




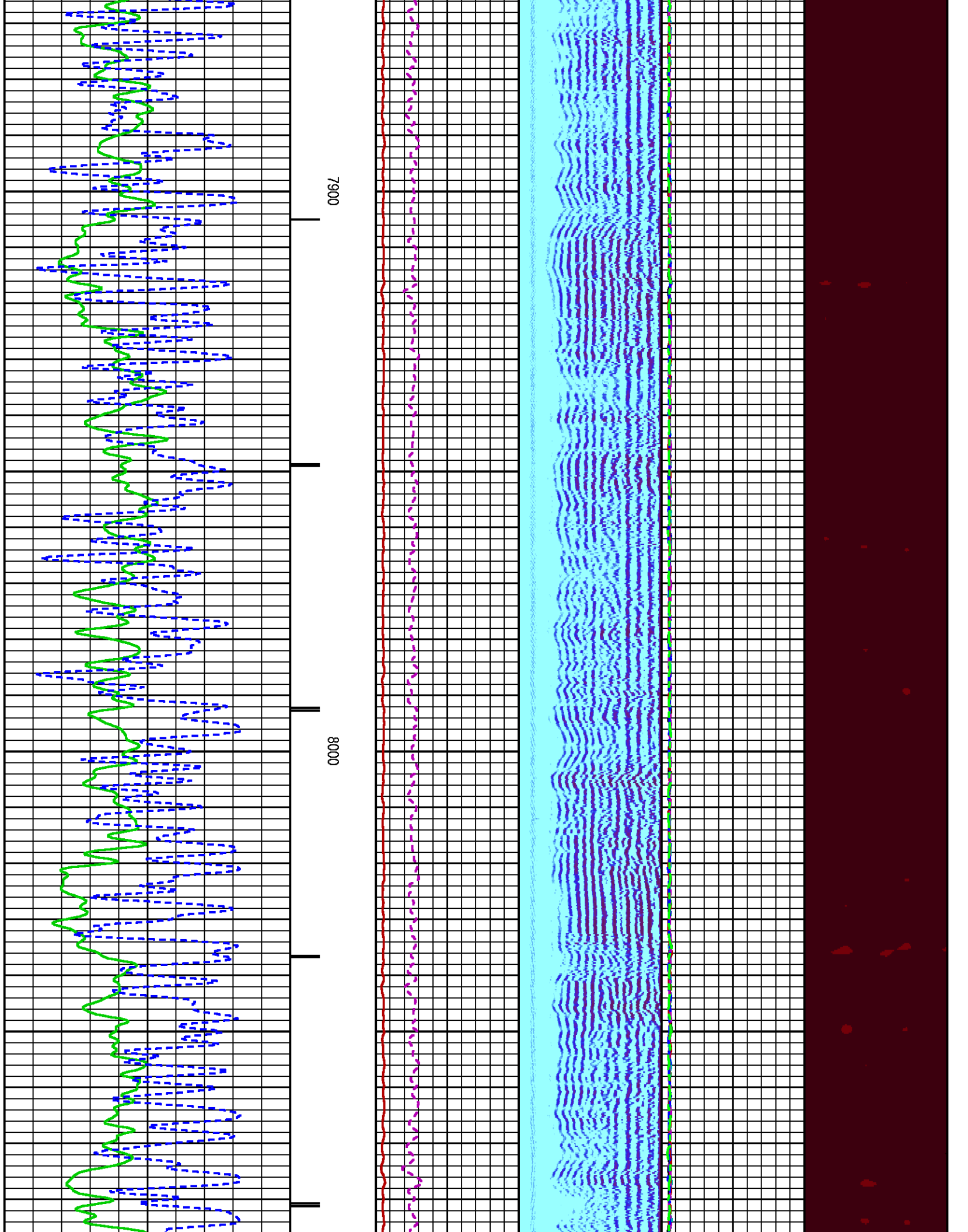


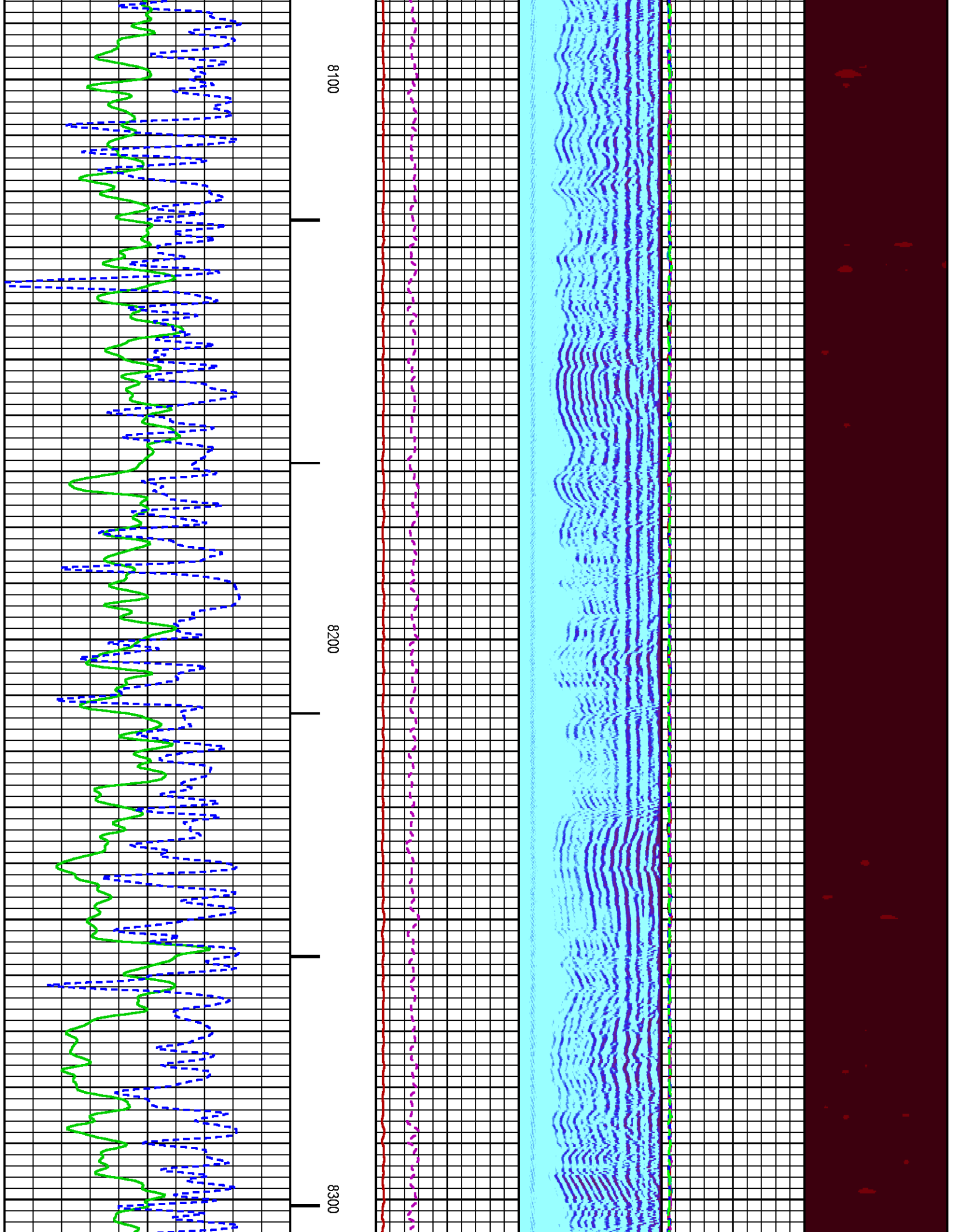


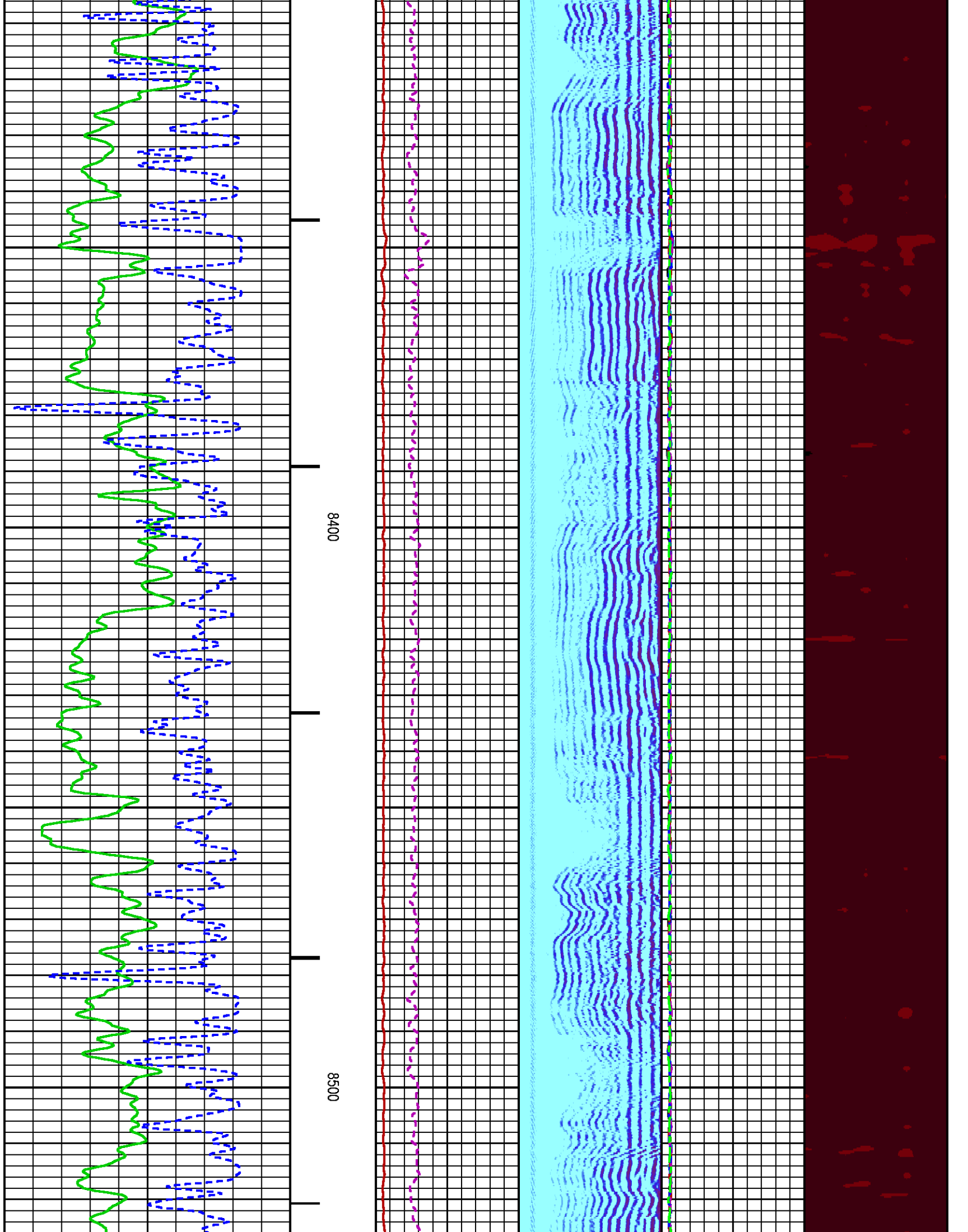


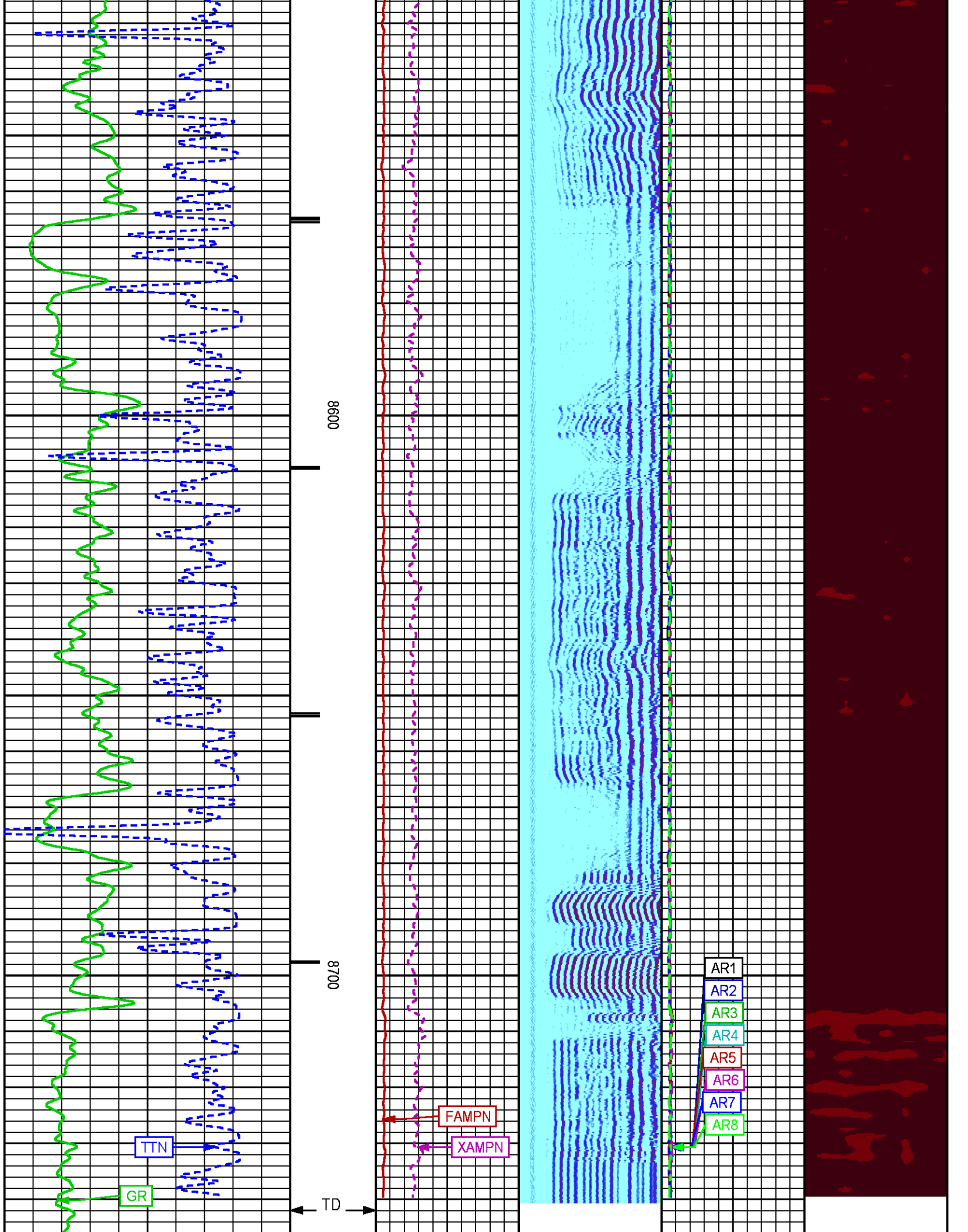




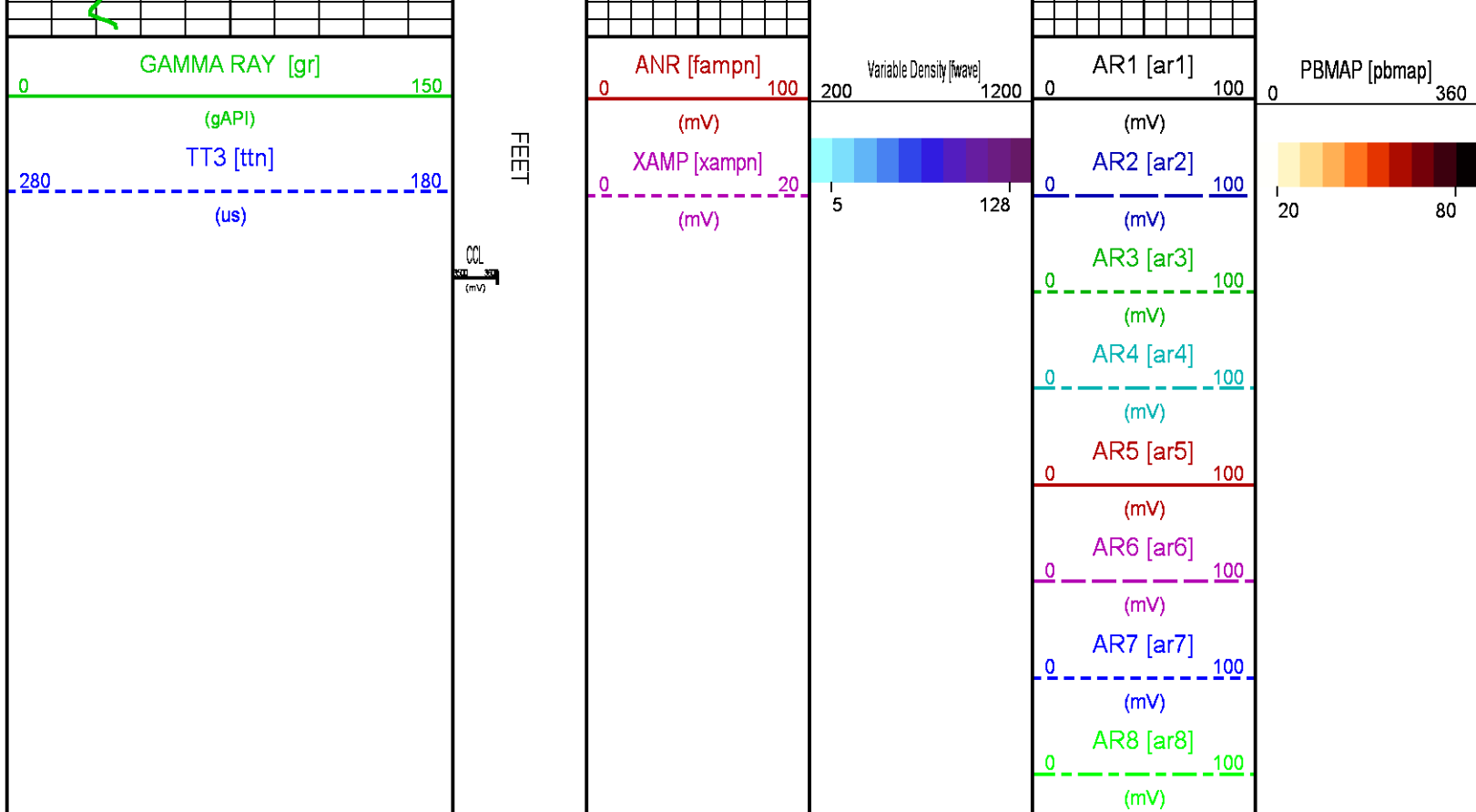












REPEAT LOG 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014  
Updates: 46 Patches: 5

Plotted: Thu Jan 08 13:02:35 2015

## PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\093871\012g01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 8401.000 ft BOTTOM DEPTH: 8738.750 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*) | 183   | us    | TOP           | BOTTOM |
|                           | AMP WINDOW LENGTH        | 25    | us    | "             | "      |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*)   | 197   | 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*)         | -72     | us | " | " |
| BASELINE NOISE (NEAR) | NOISE WINDOW START         | 125     | us | " | " |
|                       | NOISE WINDOW LENGTH        | 25      | us | " | " |

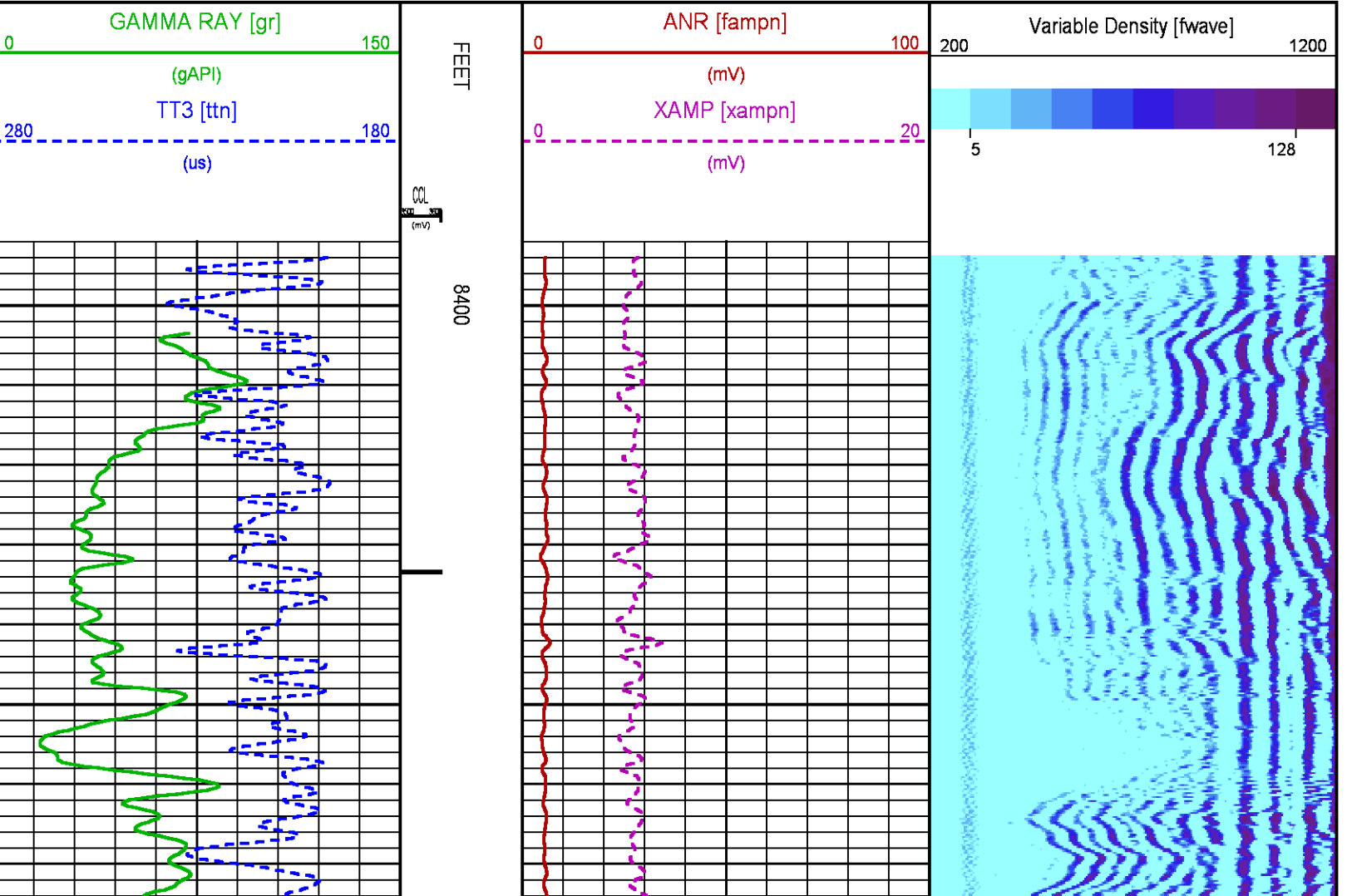
CURVE DESCRIPTION REPORT

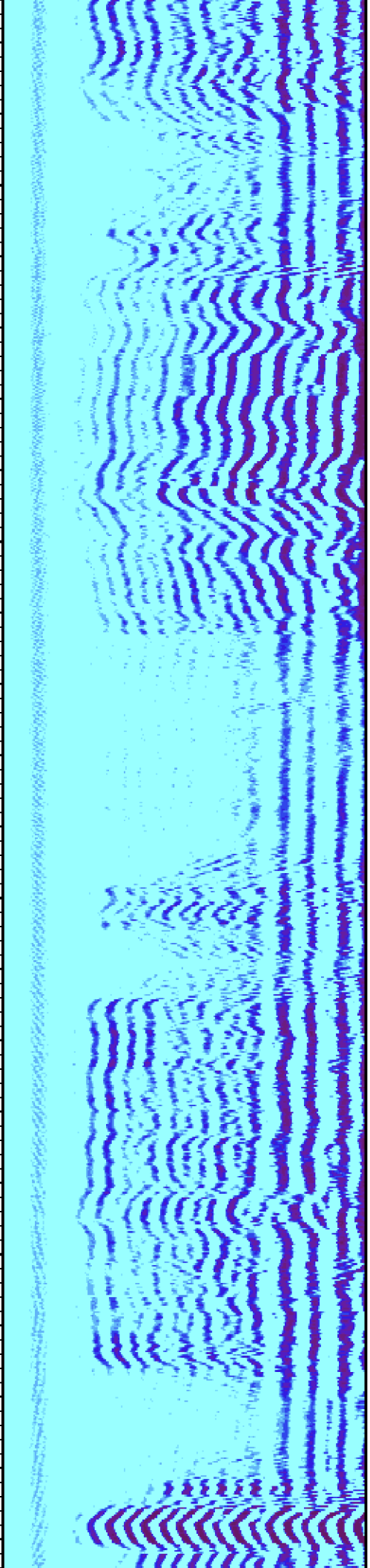
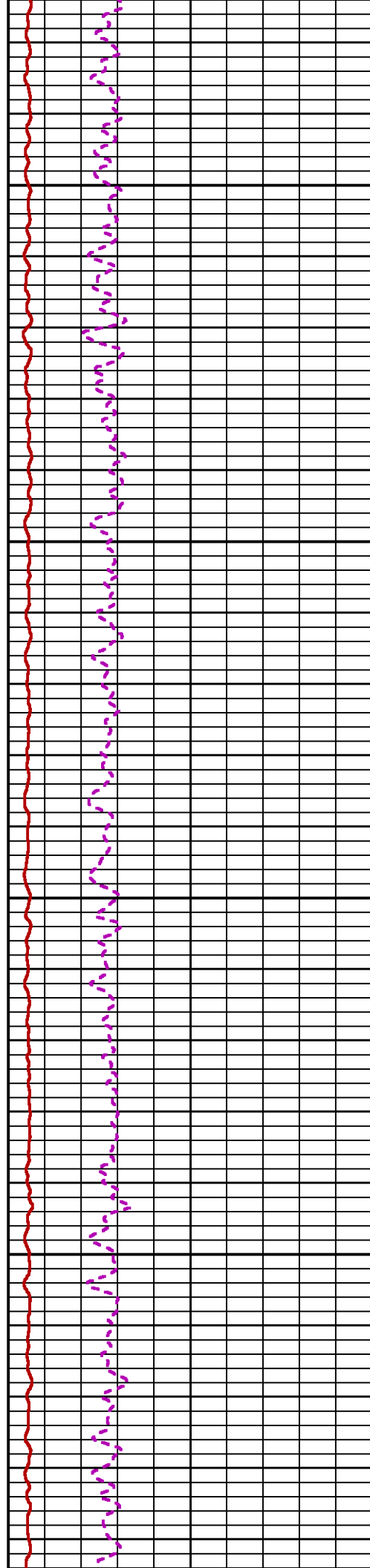
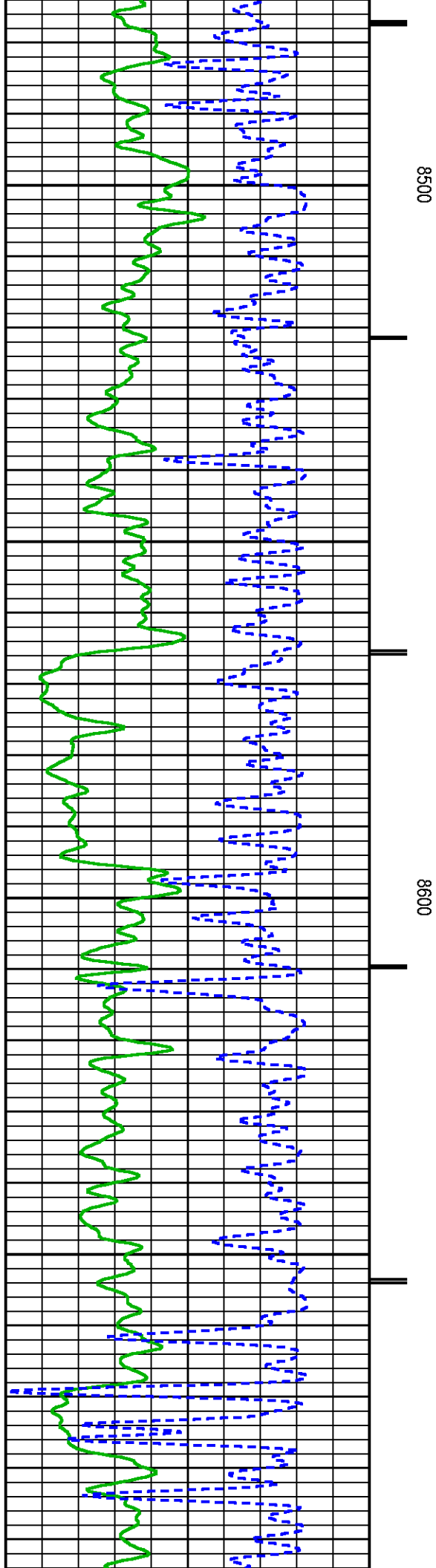
| CURVE NAME | CREATION DATE       | CURVE DESCRIPTION                             |
|------------|---------------------|---|
| F1:CCL     | Jan 8 09:03:08 2015 | CASING COLLAR LOCATOR                         |
| F1:FAMPN   | Jan 8 09:03:08 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER            |
| F1:FWAVE   | Jan 8 09:03:08 2015 | FAR WAVE FORM                                 |
| F1:GR      | Jan 8 09:03:08 2015 | GAMMA RAY                                     |
| F1:TTN     | Jan 8 09:03:08 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER     |
| F1:XAMPN   | Jan 8 09:03:08 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

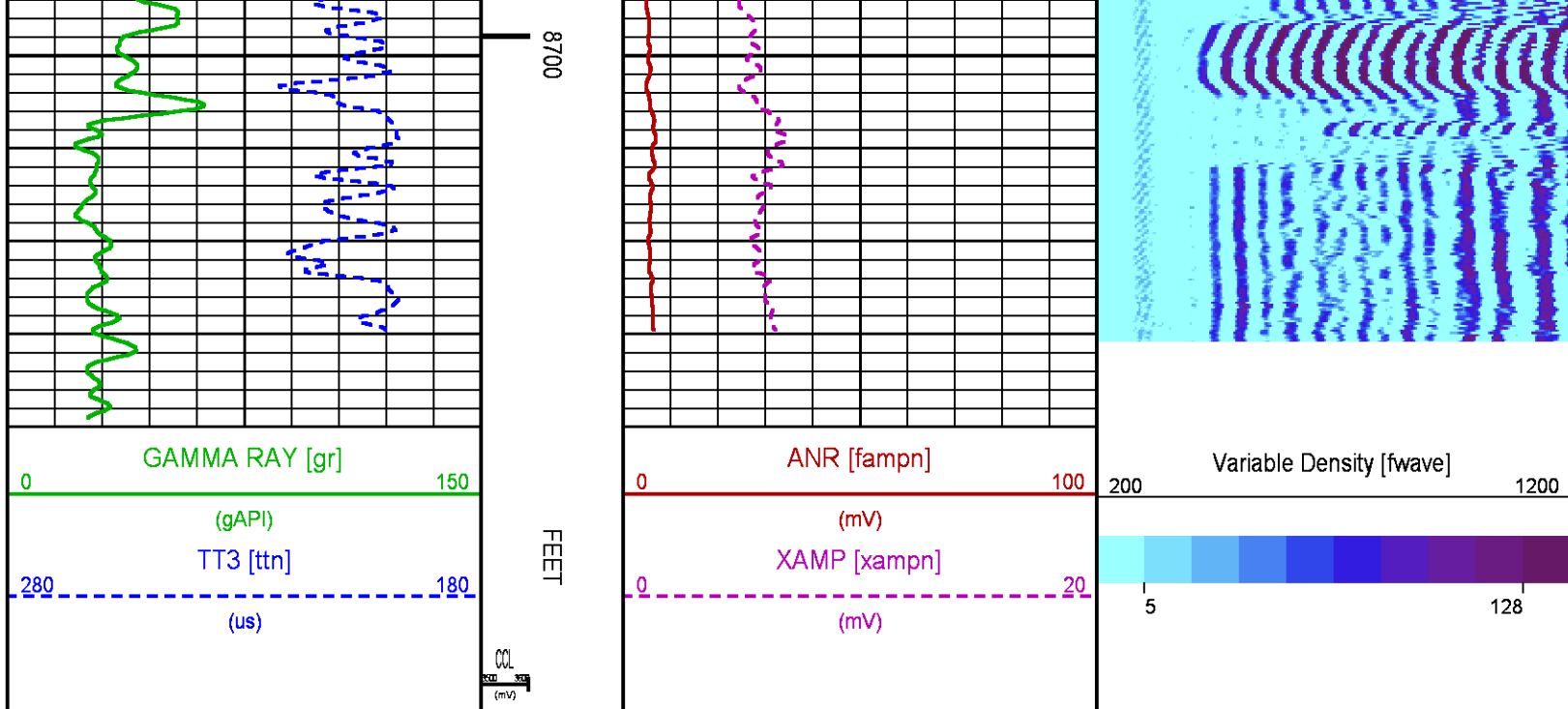
CURVE MEASURE POINT OFFSET

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

|               |  |
|---------------|--|
| Presentation  | : BHUGHES-06627:C:\dat1a\093871\341_CBL_REPEAT.fvpdf [5"/100' Scale] |
| Plot Interval | : 8393.75 - 8740.5 Feet  |
| Data File 1   | : F1 : BHUGHES-06627:C:\dat1a\093871\341_CBL_REPEAT.xtf              |
| Created On    | : Jan 8 09:03:08 2015  |
| Company       | : WPX ENERGY   |
| Well          | : FEDERAL PA 341-27  |
| Field         | : PARACHUTE  |
| File Interval | : 8392.75 - 8742 Feet  |
| OCT           | : n012g  |







## CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\093871\n012g.tp1

### RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218496

DATE/TIME PERFORMED: Thu Jan 08 08:22:17 2015

UNIT #: 3885TD Z004271

|         | 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)      | 0.05 | -0.19 | 0.08 | 0.33 | 0.11 | 0.03 | 0.19 | 0.20 | 0.05 | 0.69 | 0.19 |
| AMP FLUID (mV) | 74   | 75    | 75   | 75   | 74   | 73   | 73   | 73   | 73   | 97   | 75   |
| TT (us)        | 217  | 216   | 216  | 216  | 216  | 216  | 217  | 216  | 218  | 324  | 216  |
| M FACTOR       | 1.35 | 1.33  | 1.34 | 1.34 | 1.35 | 1.37 | 1.38 | 1.37 | 1.36 | 1.56 | 1.35 |

### RAL BEFORE LOG VERIFICATION SUMMARY



TOOL #: 1426XA 10218496 DATE/TIME PERFORMED: Thu Jan 08 08:28:50 2015 DAYS SINCE CAL: 0

UNIT #: 3885TD Z004271 CABLE #: 4271LG LARGER1

|         | 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    | -0.09        | 0.04       | -0.16      | 0.07       | 0.04       | -0.04      | 0.01       | 0.03       | 0.01       | 0.28        | 0.08        |
| AMP AIR | 5.89         | 5.60       | 6.10       | 5.67       | 5.67       | 6.25       | 6.41       | 5.33       | 5.46       | 7.51        | 100.23      |

| SHOP<br>M FACTOR | SHOP<br>A FACTOR | WIRELINE<br>FACTOR |
|------------------|------------------|--------------------|
| 1.35             | 0.00             | 1.00               |

## GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209 DATE/TIME PERFORMED: Fri Dec 12 13:50:38 2014

UNIT #: 3885TD Z004271 CALB JIG #: 4702NK WA612

|    | BACKGROUND<br>(cts) | CALBRTR ON<br>(cts) | CR DIFF<br>(cts/s) | MULT  | BACKGROUND<br>(gAPI) | CALBRTR ON<br>(gAPI) | CALBRTR<br>(gAPI) |
|----|---------------------|---------------------|--------------------|-------|----------------------|----------------------|-------------------|
| GR | 158.53              | 746.53              | 588.0              | 0.315 | 49.88                | 234.88               | 185               |

## GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 10580209 DATE/TIME PERFORMED: Fri Dec 12 13:55:38 2014

UNIT #: 3885TD Z004271 VERI JIG #: 4702NK WA612

|    | BACKGROUND<br>(cts) | CALBRTR ON<br>(cts) | MULT  | BACKGROUND<br>(gAPI) | CALBRTR ON<br>(gAPI) | DIFF.<br>(gAPI) |
|----|---------------------|---------------------|-------|----------------------|----------------------|-----------------|
| GR | 164.98              | 742.44              | 0.315 | 51.91                | 233.59               | 181.69          |
|    |                     |                     |       |                      |                      | 175.00 195.00   |

## INSTRUMENT CONFIGURATION

A3 CABLEHEAD

Diameter : 1.37"

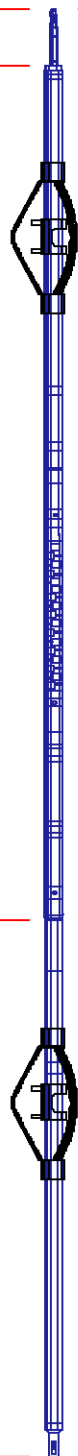
RADIAL BOND TOOL

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

RAL GR/TEMP/CCL/CHV DETECTOR

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

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




NEAR RCVR 11.17'

FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'

|  |         |                   |       |                |                |
|--|---------|-------------------|-------|----------------|----------------|
|  | COMPANY | WPX ENERGY        |       | FILE NO:       |                |
|  | WELL    | FEDERAL PA 341-27 |       |                | CH093871       |
|  | FIELD   | PARACHUTE         |       | API NO:        |                |
|  | COUNTY  | GARFIELD          | STATE | COLORADO       | 05045222380000 |
| LOCATION:  |         | ELEVATIONS:       |       | 27 6S 95W      |                |
| SHL: 2345' FNL & 647' FEL  |         | KB 5882 FT        |       | DOE 2-W-27 PAD |                |
| BHL: 602' FNL & 261' FEL (NENE)  |         | DF                |       | NABORS 576     |                |
| GL 5856 FT   |         | DATE              |       | 8-Jan-2015     |                |
| SEC 27 TWP 6S RGE 96W  |         |                   |       |                |                |