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|---|--|
| FILE NO: CH096699 | COMPANY WPX ENERGY |
| API NO: 05103119910000 | WELL FEDERAL RGU 43-26-198 |
| | FIELD SULPHUR CREEK |
| | COUNTY RIO BLANCO |
| | STATE COLORADO |
| Ver. 4.01 SEC 26 T1S R98W RGU 42-26-198 H&P 318 | LOCATION: SHL: 2447' FNL 897' FEL BHL: 2393' FSL 8' FEL SEC 26 TWP 1S RGE 98W |
| PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM | OTHER SERVICES RPM ELEVATIONS: KB 6646 FT DF GL 6622 FT |

| | | | | | |
|------------------------|----------|-----------------|-----------|--|--|
| DATE | | 22-May-2015 | | | |
| RUN | TRIP | 1 | 1 | | |
| SERVICE ORDER | | US096699J | | | |
| DEPTH DRILLER | | 12488 FT | | | |
| DEPTH LOGGER | | 12409 FT | | | |
| BOTTOM LOGGED INTERVAL | | 12399 FT | | | |
| TOP LOGGED INTERVAL | | 0 FT | | | |
| TIME STARTED | | 9:00 | | | |
| TIME FINISHED | | 12:30 | | | |
| OPERATOR RIG TIME | | 3:30 | | | |
| TYPE OF FLUID IN HOLE | | WATER | | | |
| FLUID DENSITY | | NA | | | |
| FLUID SALINITY | | NA | | | |
| FLUID LEVEL | | 182 FT | | | |
| LOGGED CEMENT TOP | | NA | | | |
| WELLHEAD PRESSURE | | 0 PSI | | | |
| MAXIMUM HOLE DEVIATION | | NA | | | |
| NOMINAL LOGGING SPEED | | 90 F/MN | | | |
| MAX. RECORDED TEMP. | | 275 DEGF | | | |
| REFERENCE LOG | | NONE | | | |
| REFERENCE LOG DATE | | NA | | | |
| EQUIP. NO. | LOCATION | 6685 | GRAND JCT | | |
| RECORDED BY | | W. QUIGLEY | | | |
| WITNESSED BY | | 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 | 12409 FT |

REMARKS

RUN 1 TRIP 1: LOGGED WITH ZERO PSI AT WELLHEAD

BHT = 275 degF

SJ = 7344'-7367'

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: HOLLAR/FLEMING/QUIGLEY
RIG: H&P 318

EQUIPMENT DATA

| RUN | TRIP | TOOL | SERIES NO. | SERIAL NO. | POSITION |
|-----|------|--------|------------|------------|-------------|
| 1 | 1 | RAL | 1426XA | 10124106 | CENTRALIZED |
| 1 | 1 | CCL/GR | 2459XA | 10218503 | 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: Tue May 26 11:25:31 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n012eR02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 24.250 ft BOTTOM DEPTH: 12421.250 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*) | 203 | us | TOP | BOTTOM |
| | AMP WINDOW LENGTH | 25 | us | " | " |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 215.678 | us | " | " |
| RAL TOOL DELAY | TOOL DELAY (strn*) | -71 | us | " | " |
| BASELINE NOISE (NEAR) | NOISE WINDOW START | 140 | us | " | " |
| | NOISE WINDOW LENGTH | 25 | us | " | " |

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n012eTOP02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 25.750 ft BOTTOM DEPTH: 200.000 ft

SYMMETRIC FILTER

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

RAL CCL PROCESSING

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

ANALOG RAL PROCESSING

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|-------|-------|---------------|--|
|------------------|-----------|-------|-------|---------------|--|

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) |
|---------------------------|----------------------------|---------|-------|---------------|
| AMPLITUDE WINDOW (NEAR) | AMP WINDOW START (fgpn*) | 187 | us | TOP |
| | AMP WINDOW LENGTH | 25 | us | " |
| | TT WINDOW START (ttn*) | 175 | us | " |
| | TT WINDOW LENGTH | 500 | us | " |
| TRAVEL TIME WINDOW (NEAR) | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " |
| | PPT NEAR | 215.678 | us | " |
| | TOOL DELAY (strn*) | -70 | us | " |
| | NOISE WINDOW START | 70 | us | " |
| RAL CASING PARAMETERS | NOISE WINDOW LENGTH | 85 | us | " |
| RAL TOOL DELAY | | | | |
| BASELINE NOISE (NEAR) | | | | |

CURVE DESCRIPTION REPORT

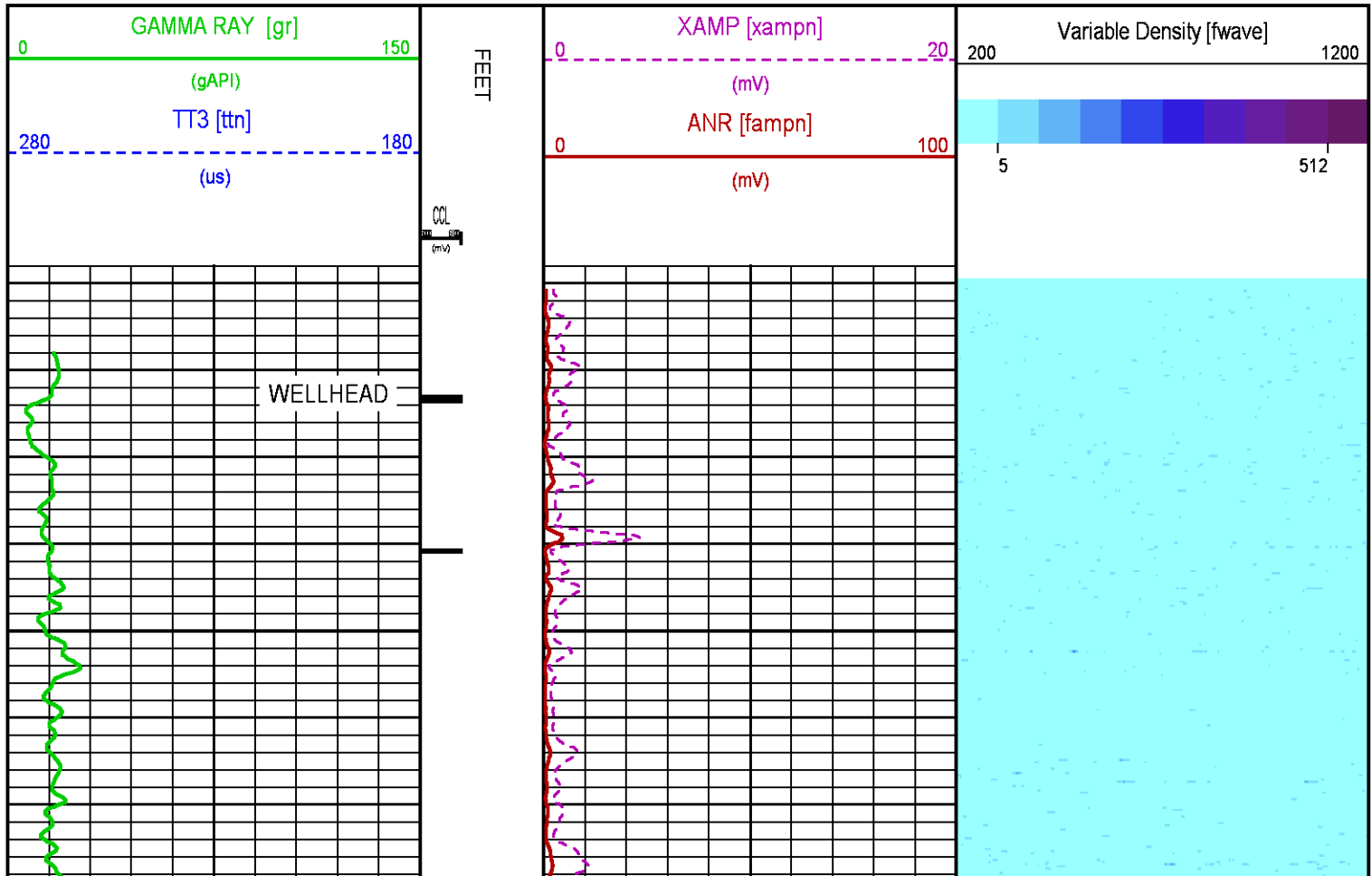
| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
|------------|----------------------|---|
| F1:CCL | May 26 11:11:17 2015 | CASING COLLAR LOCATOR |
| F1:FAMPN | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER |
| F1:FWAVE | May 26 11:11:17 2015 | FAR WAVE FORM |
| F1:GR | May 26 11:11:17 2015 | GAMMA RAY |
| F1:TTN | May 26 11:11:17 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER |
| F1:XAMPN | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

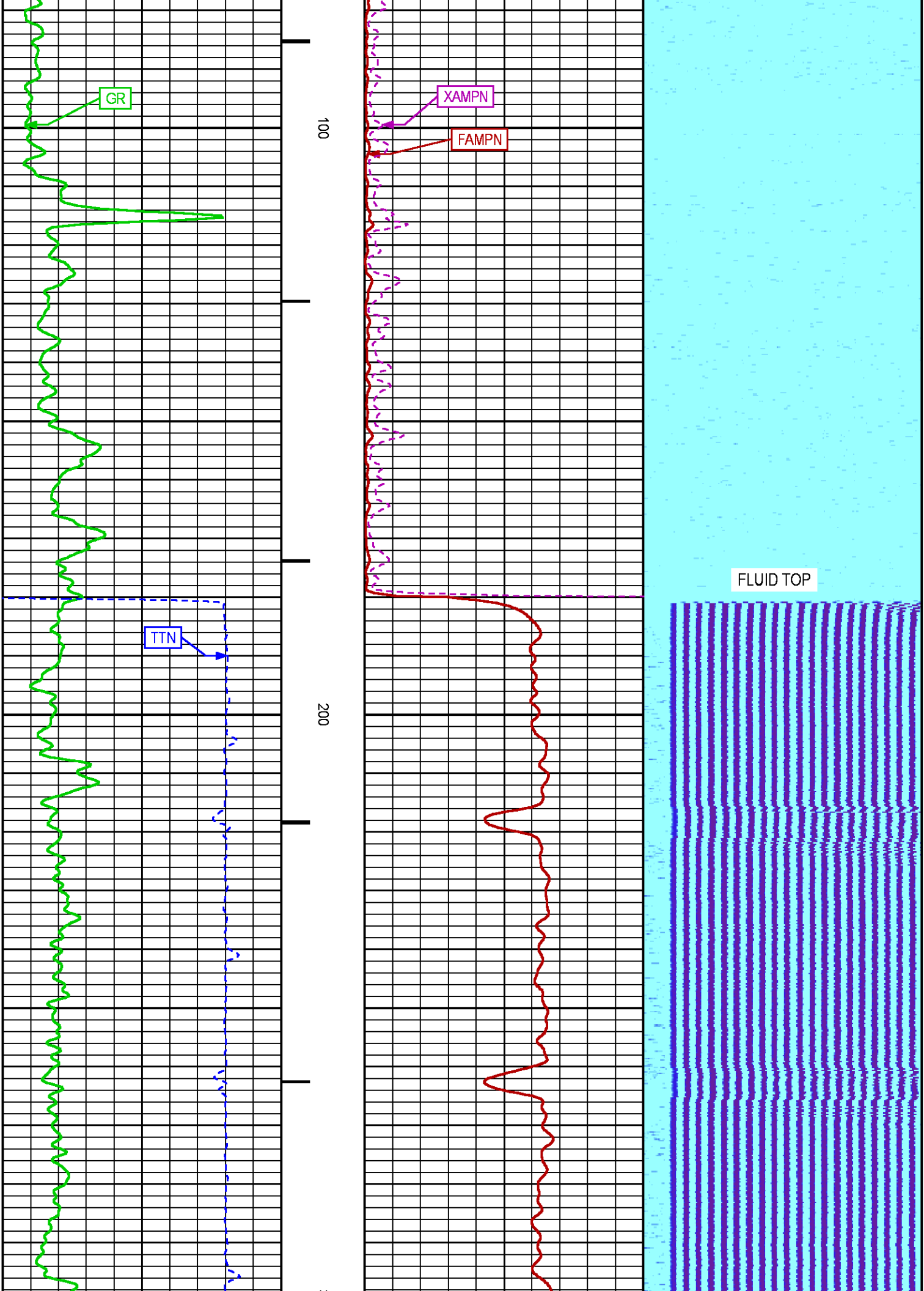
CURVE MEASURE POINT OFFSET

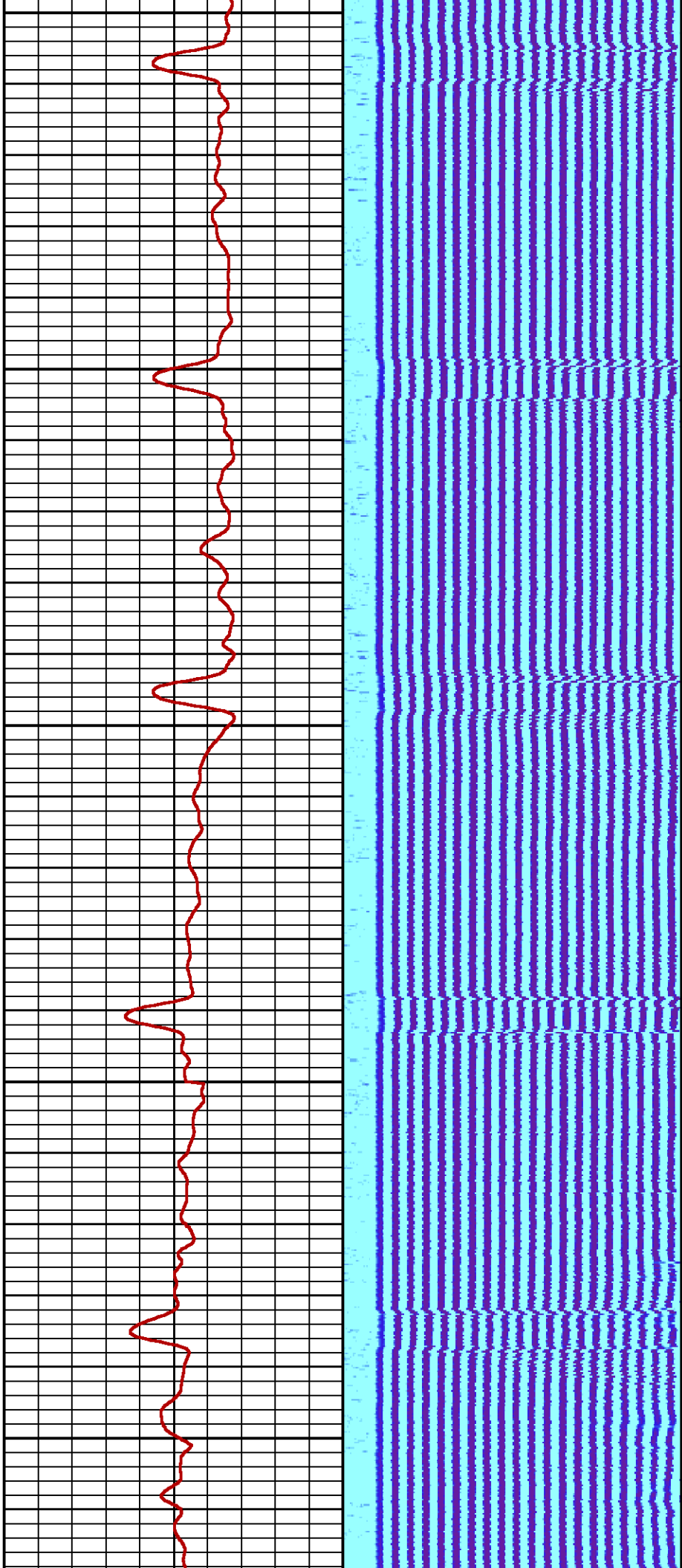
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL | 8.50 | GR | 6.50 | XAMPN | 13.75 | | |
| FAMPN | 13.75 | TTN | 13.75 | | | | |

Presentation : cas6685:/dat1a/CH096699/WPX_ral_cbl_MAIN.fvpdf [5"/100' Scale]
Plot Interval : 9.5 - 12421.2 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096699/n012eMAIN.xtf
Created On : May 22 14:43:24 2015
Company : WPX ENERGY
Well : FEDERAL RGU 44-26-198
Field : SULPHUR CREEK
File Interval : 9.5 - 12421.2 Feet
OCT : n012e



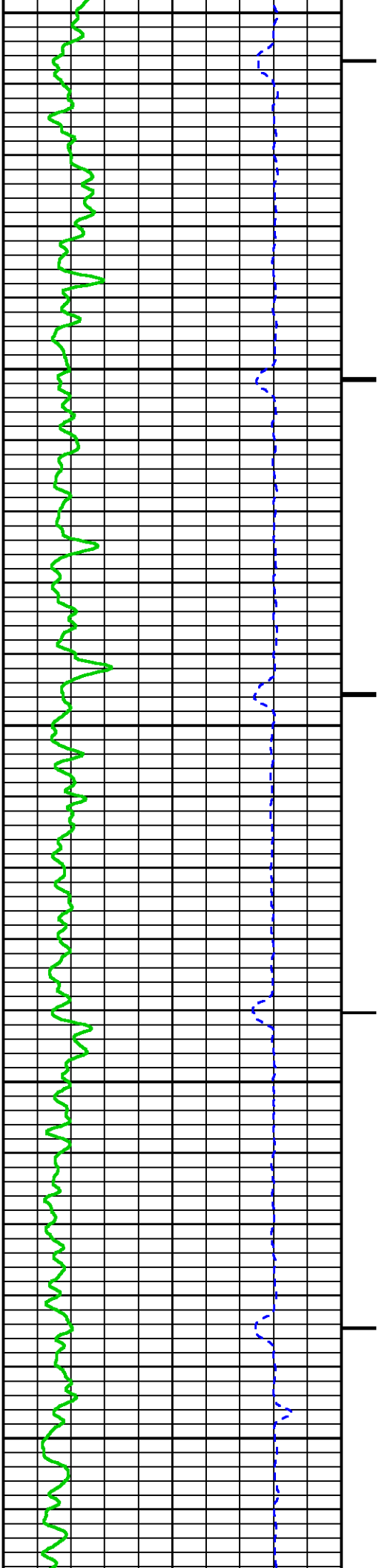


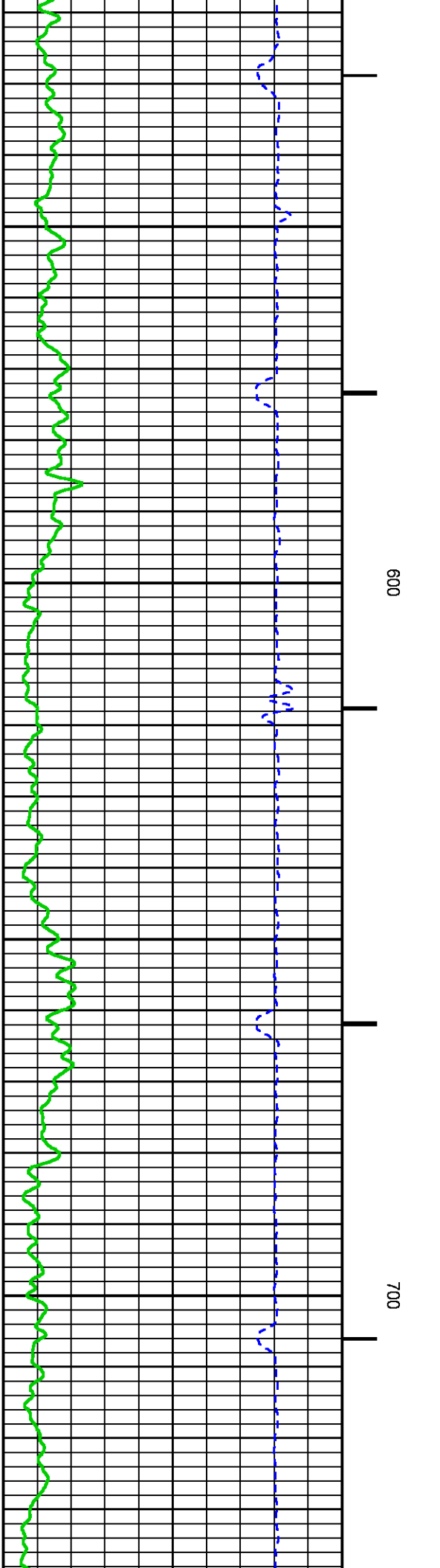
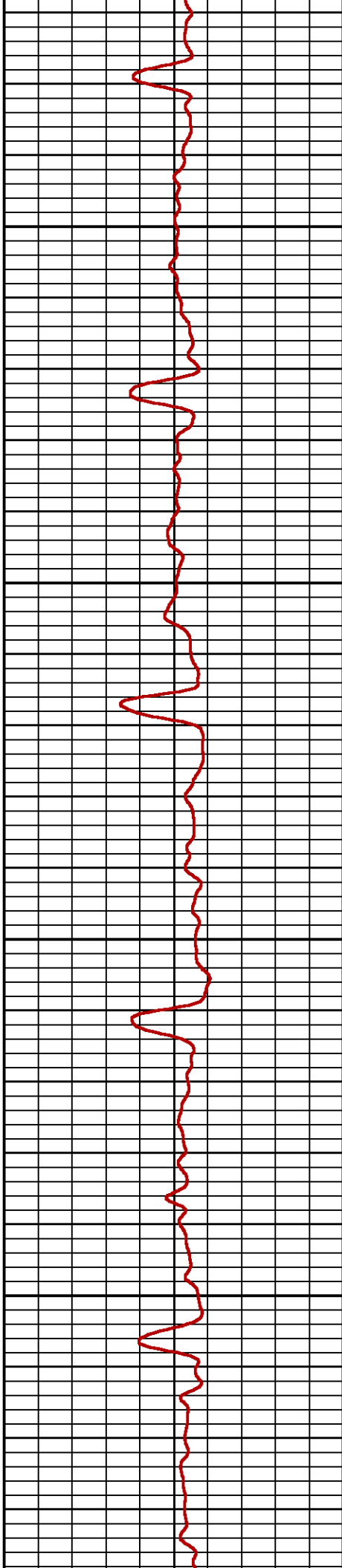
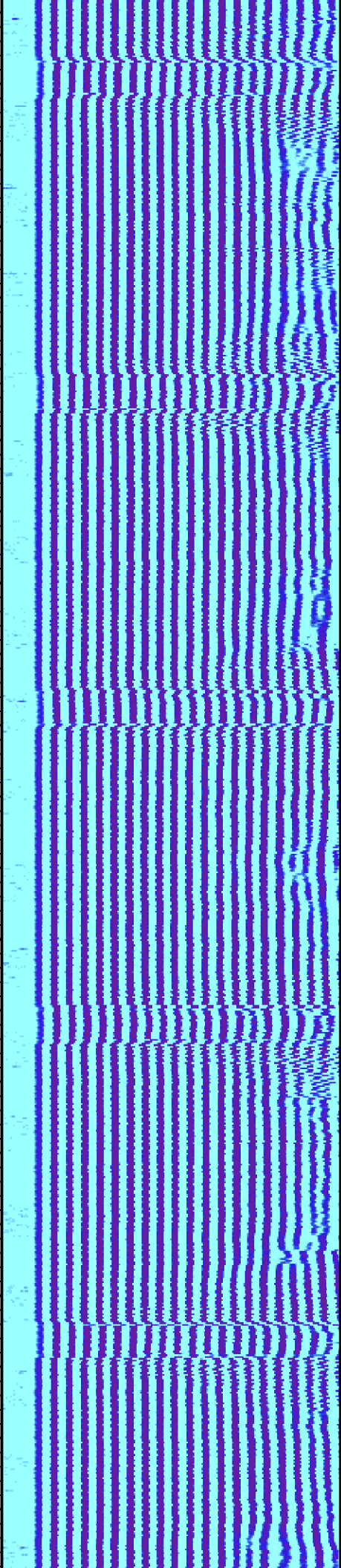


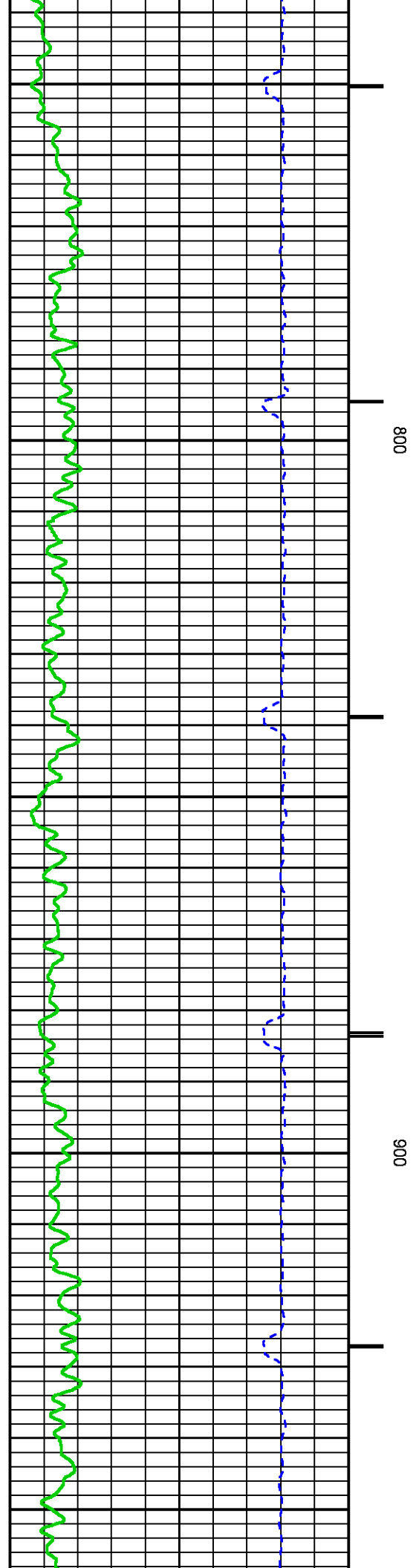
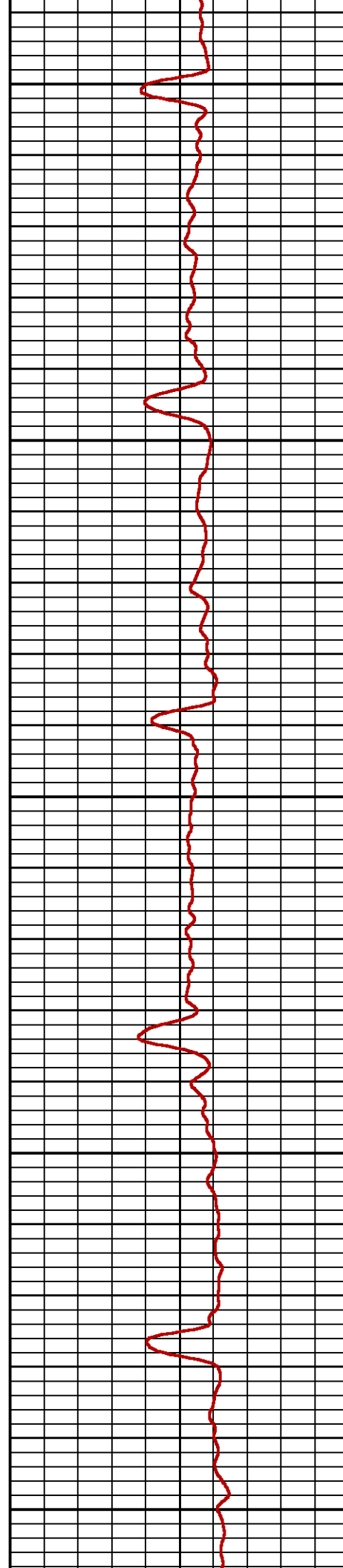
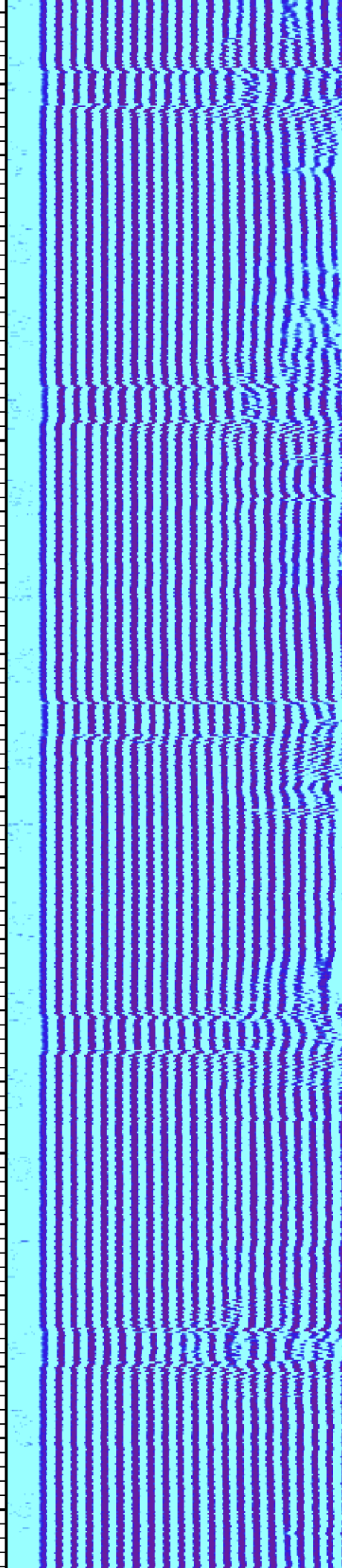
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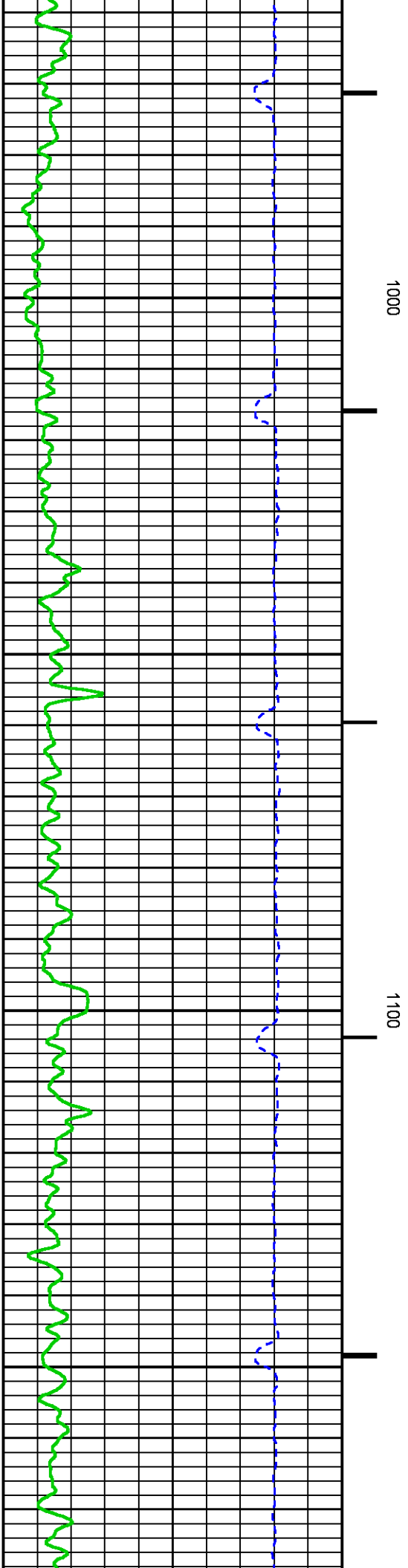
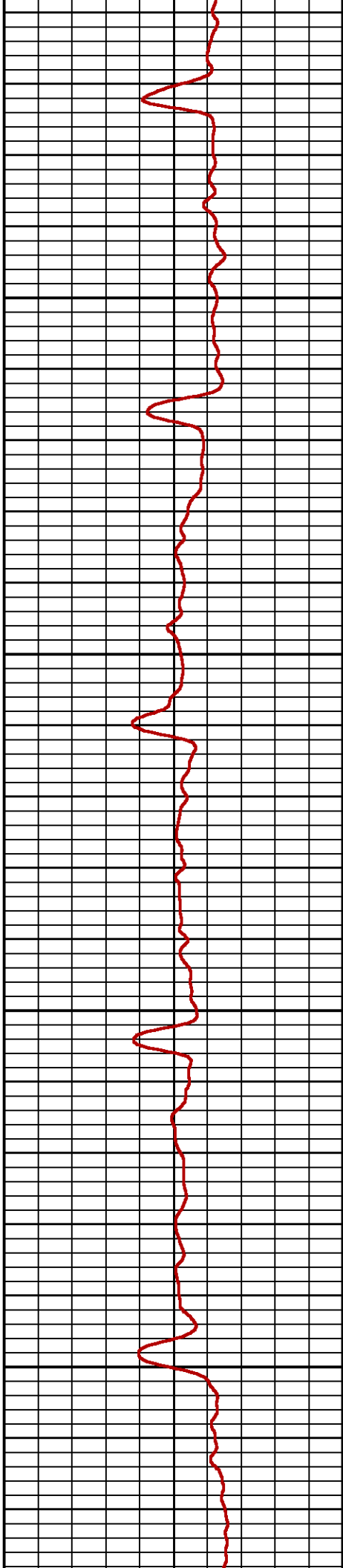
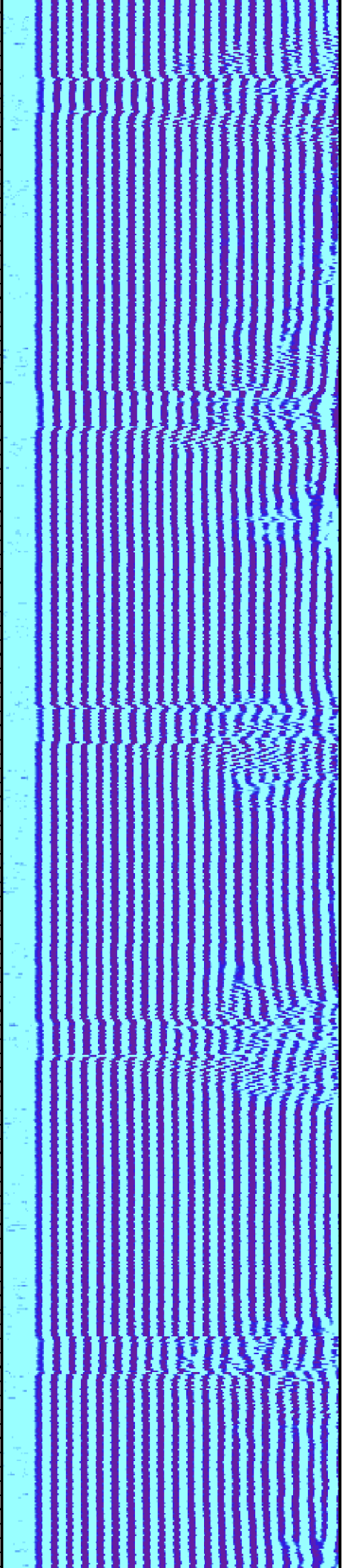
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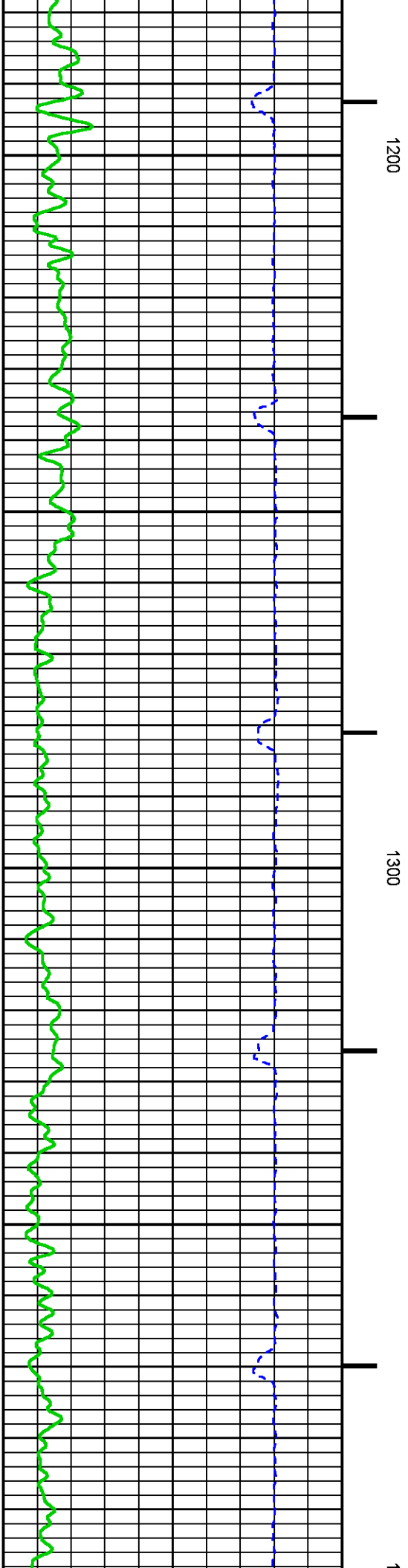
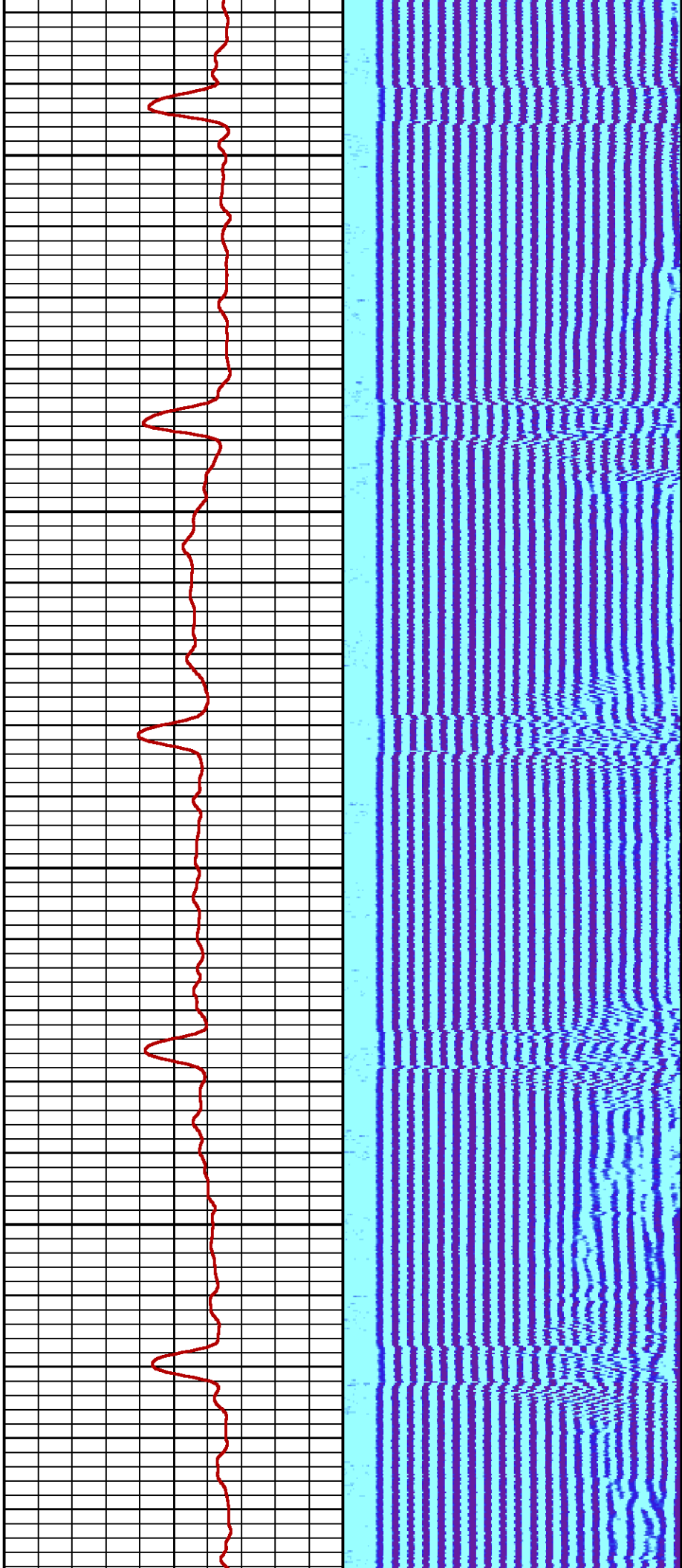
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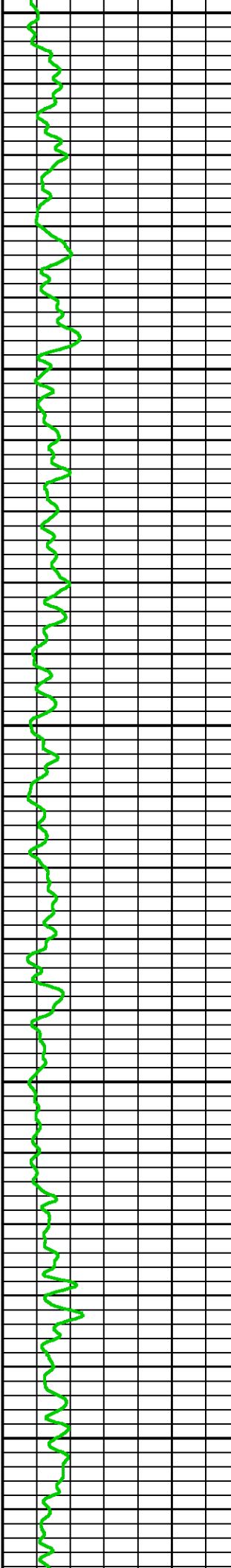
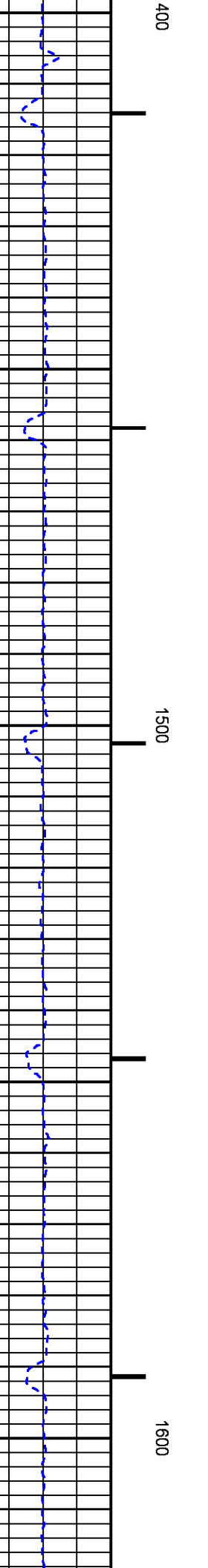
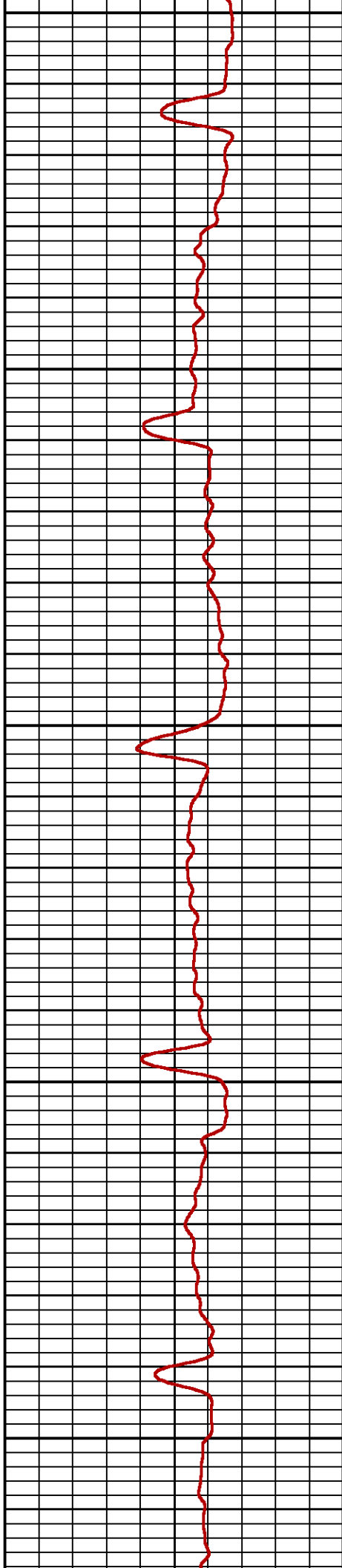
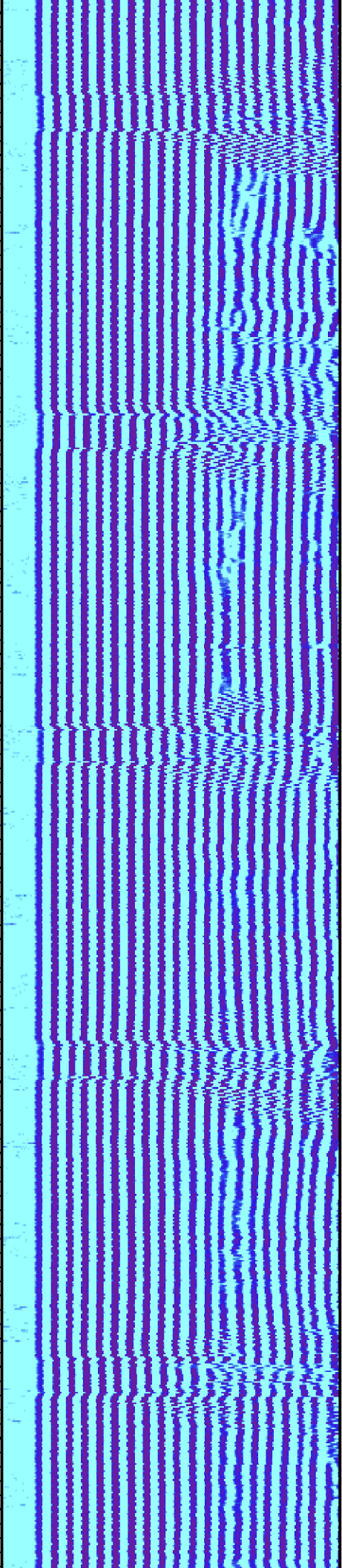


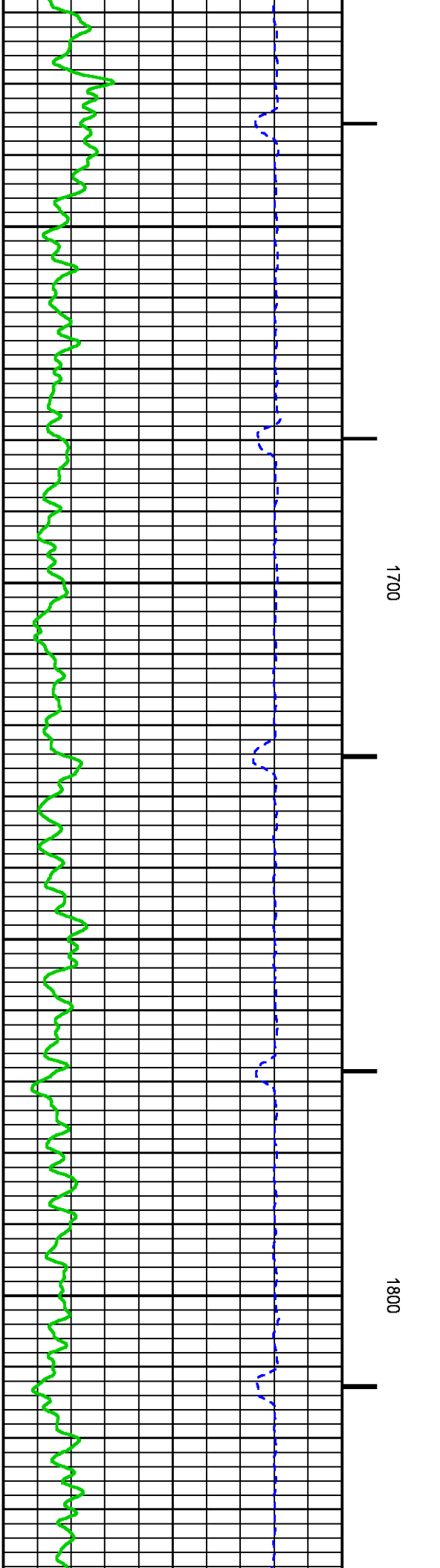
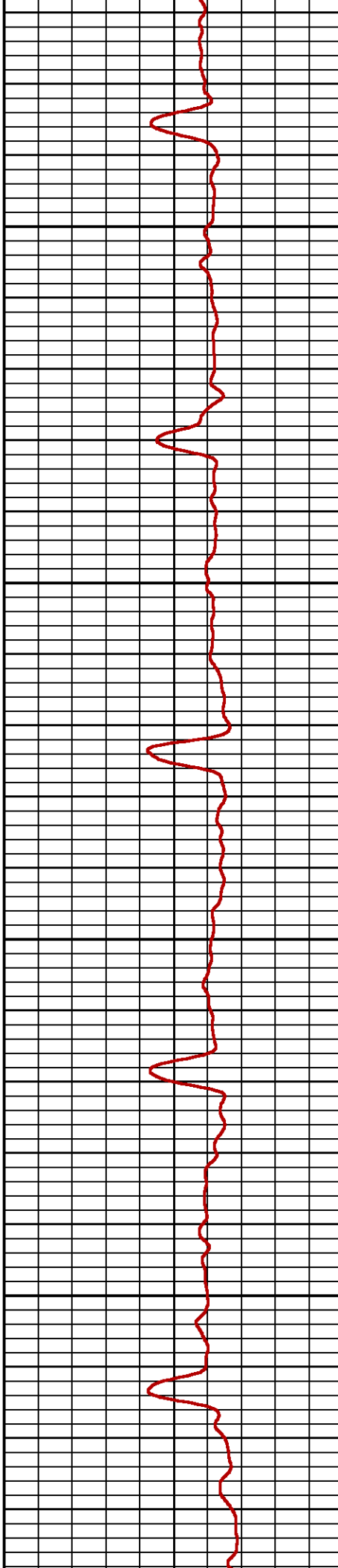
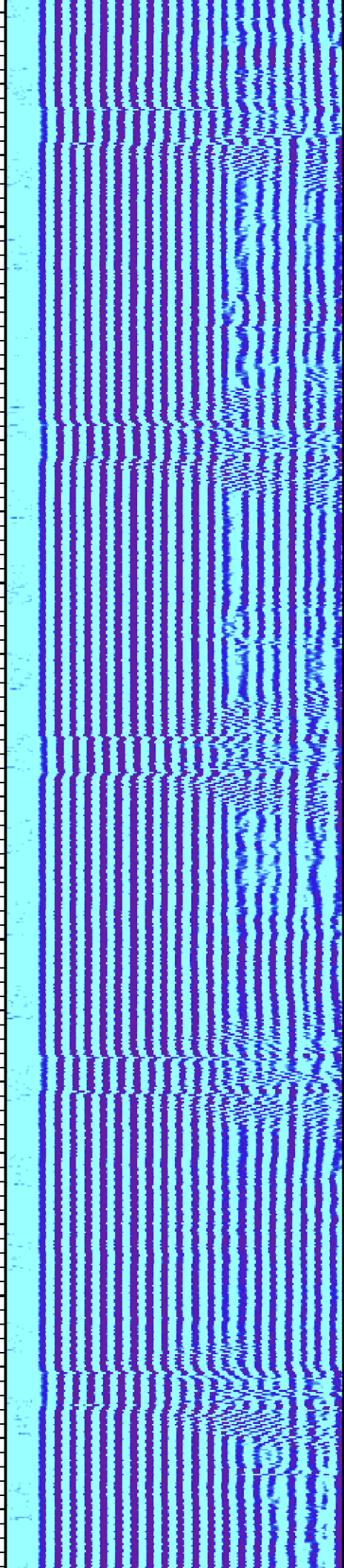


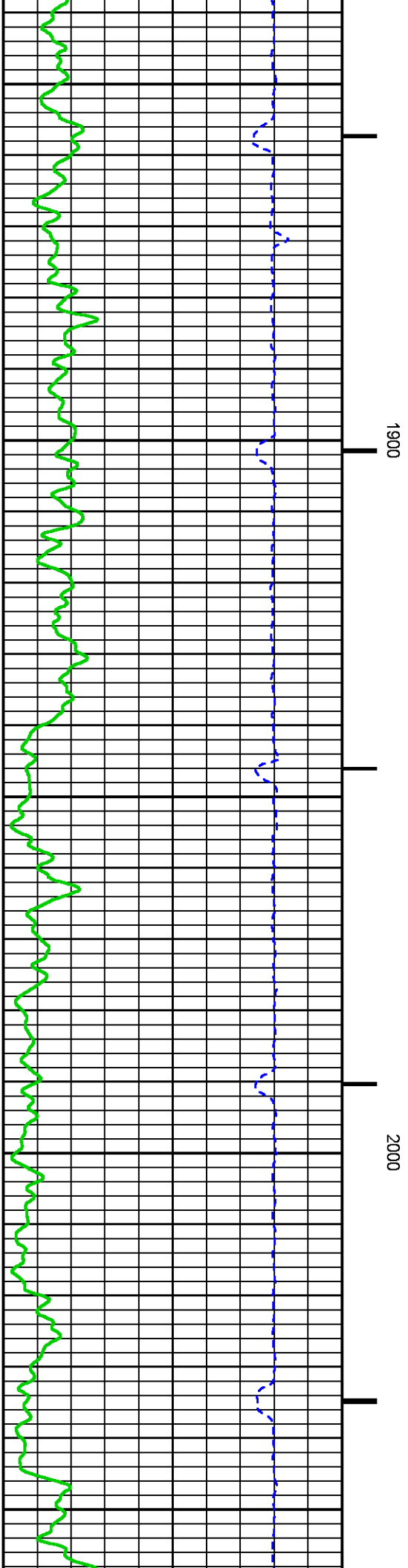
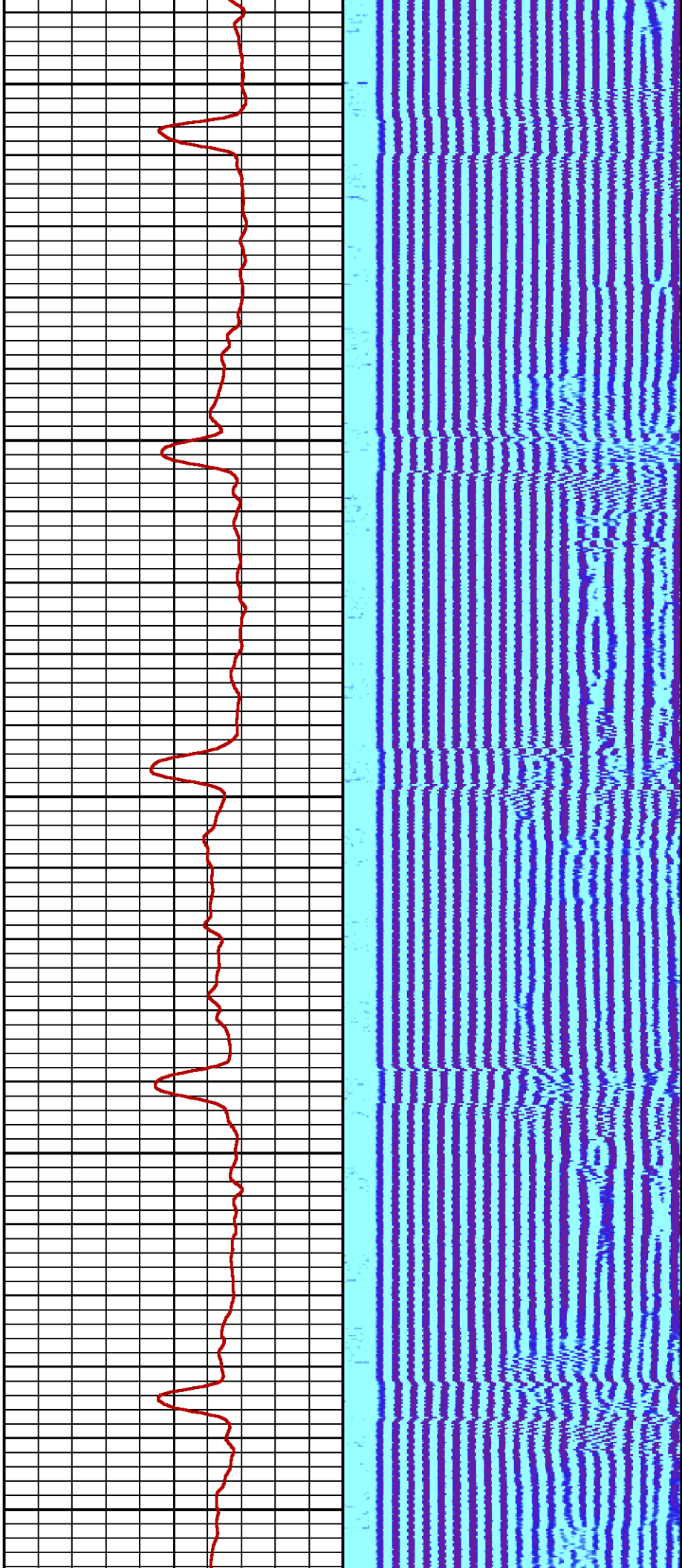


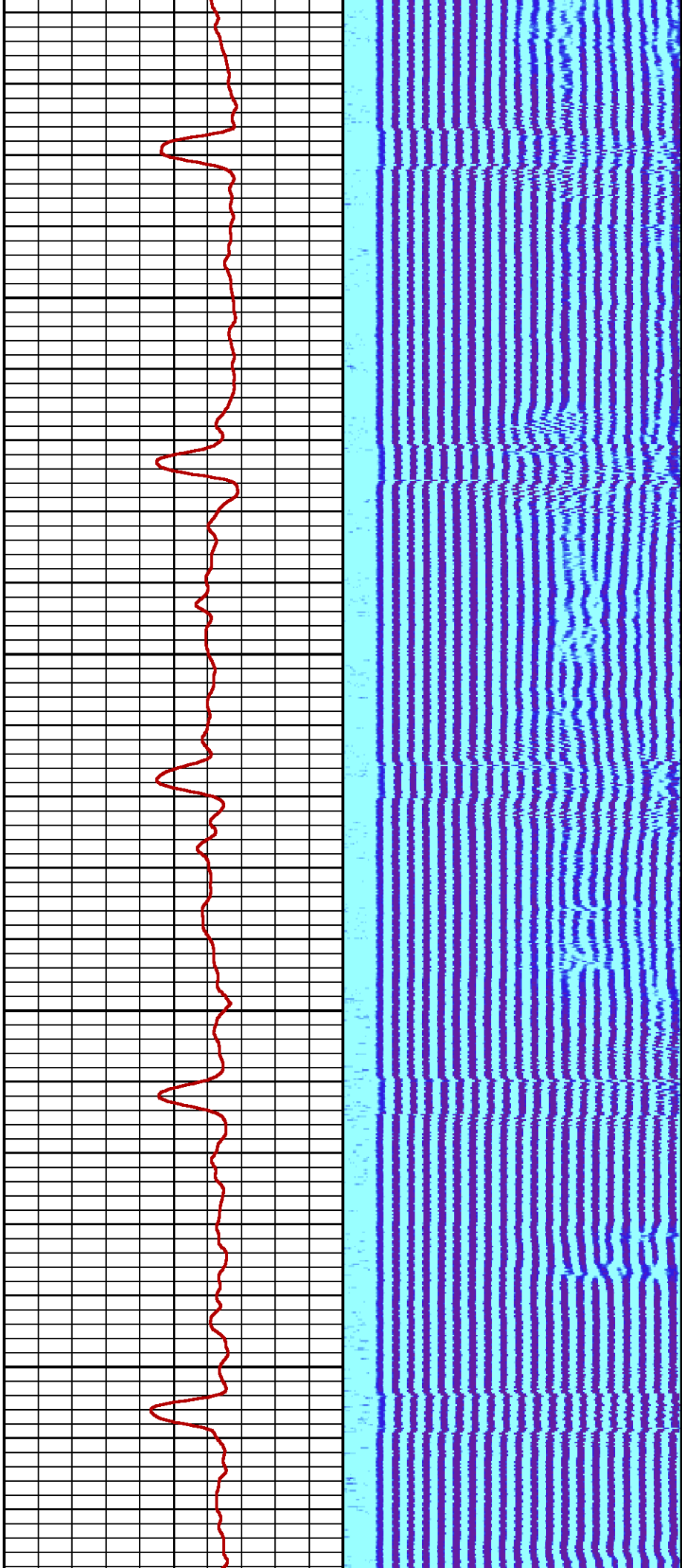






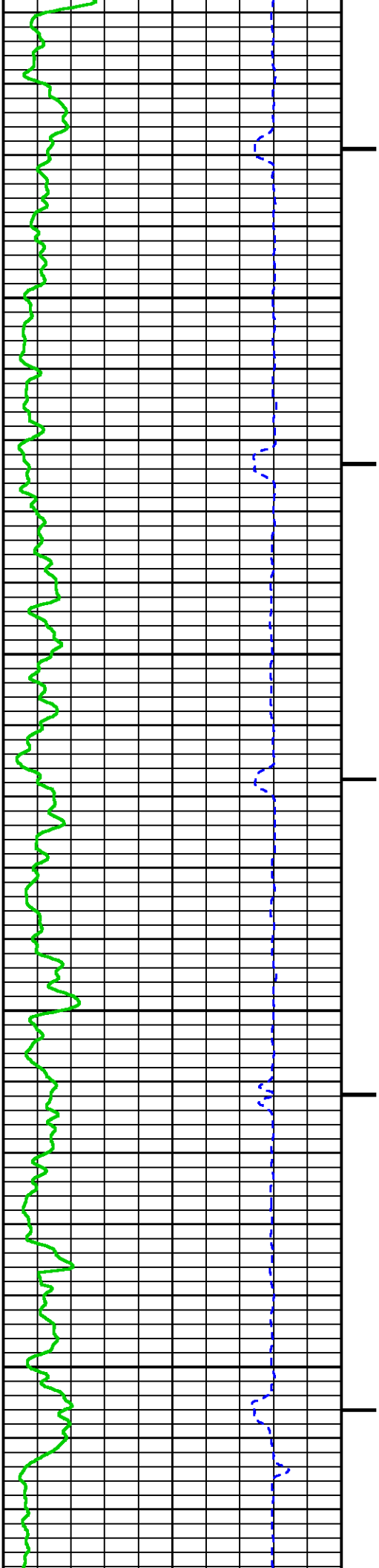


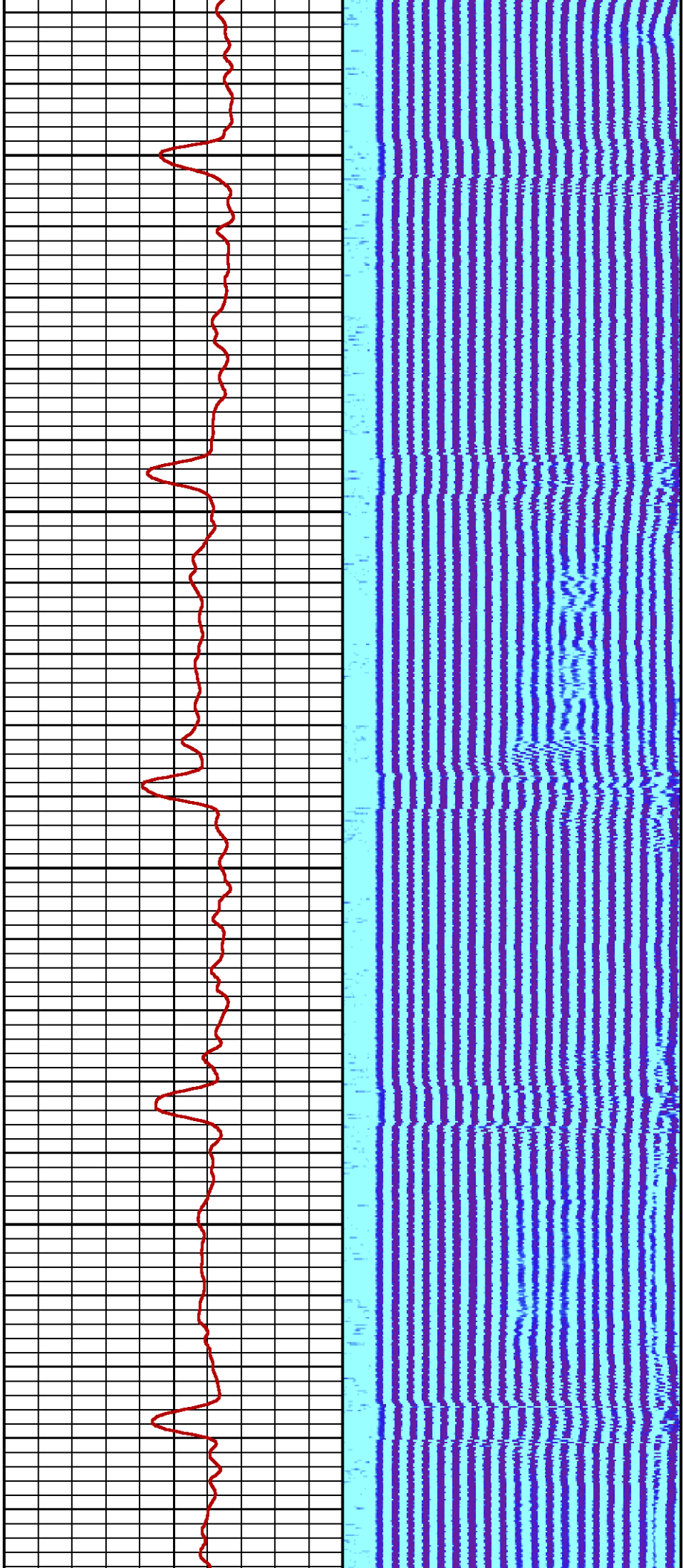




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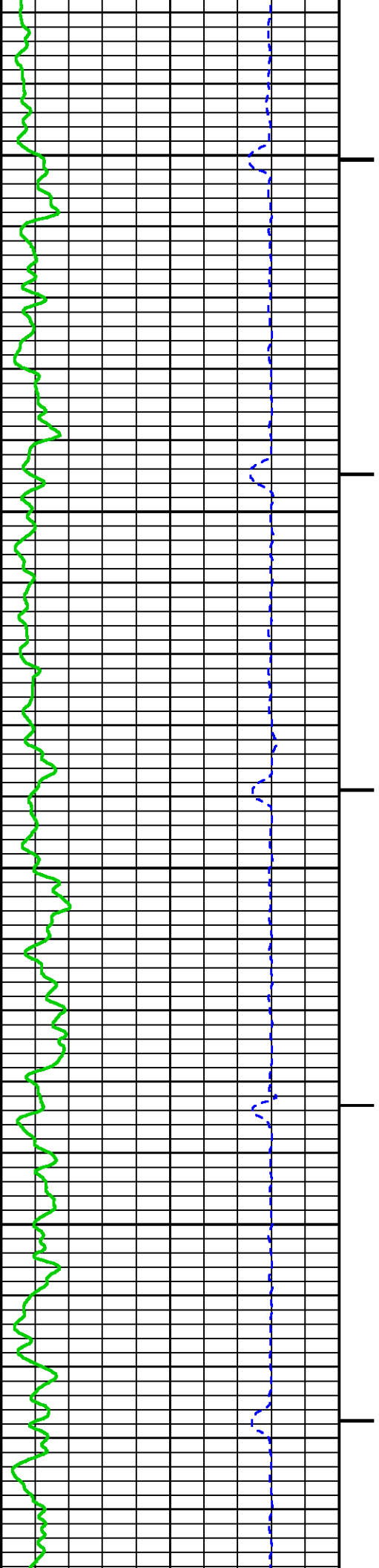


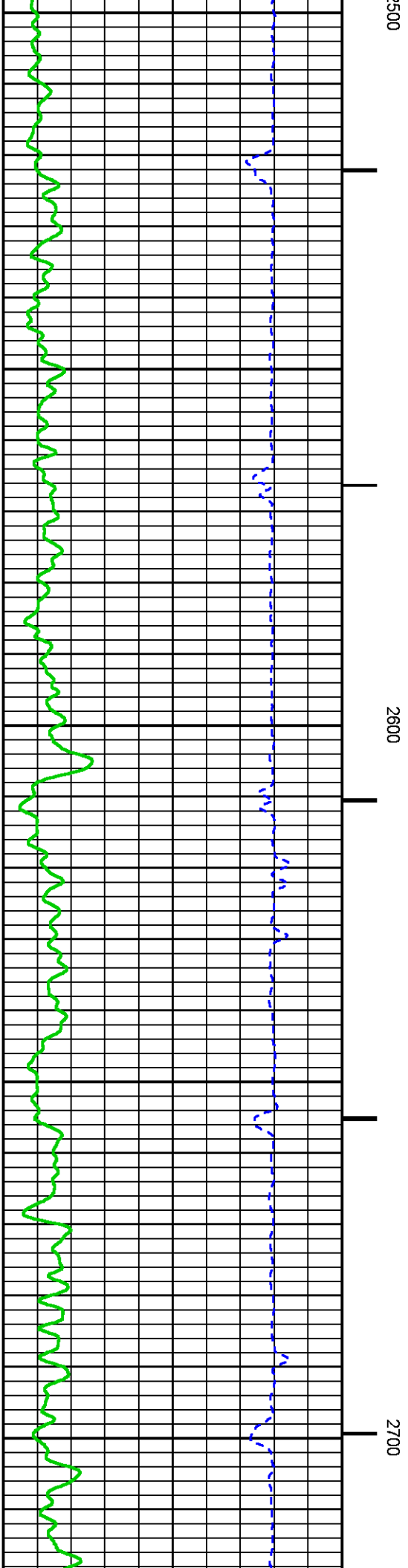
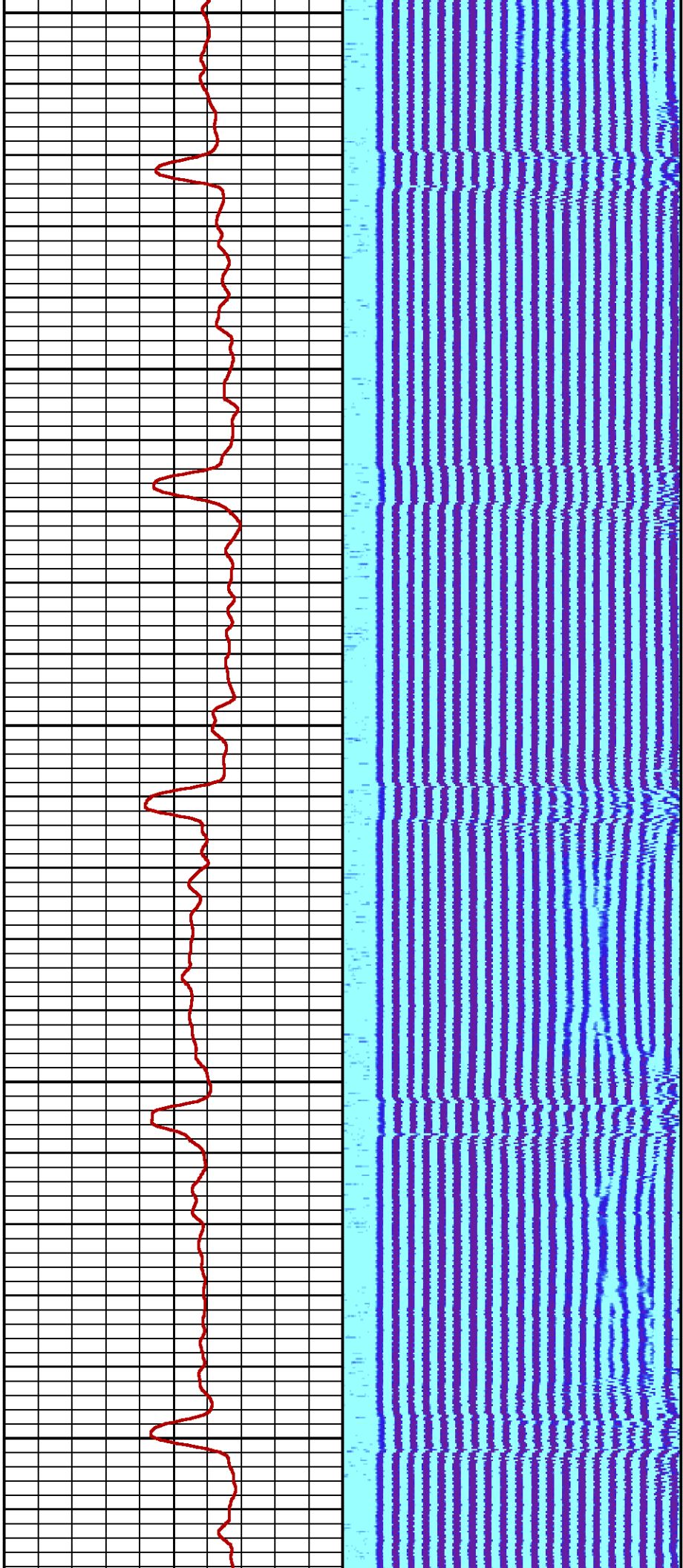


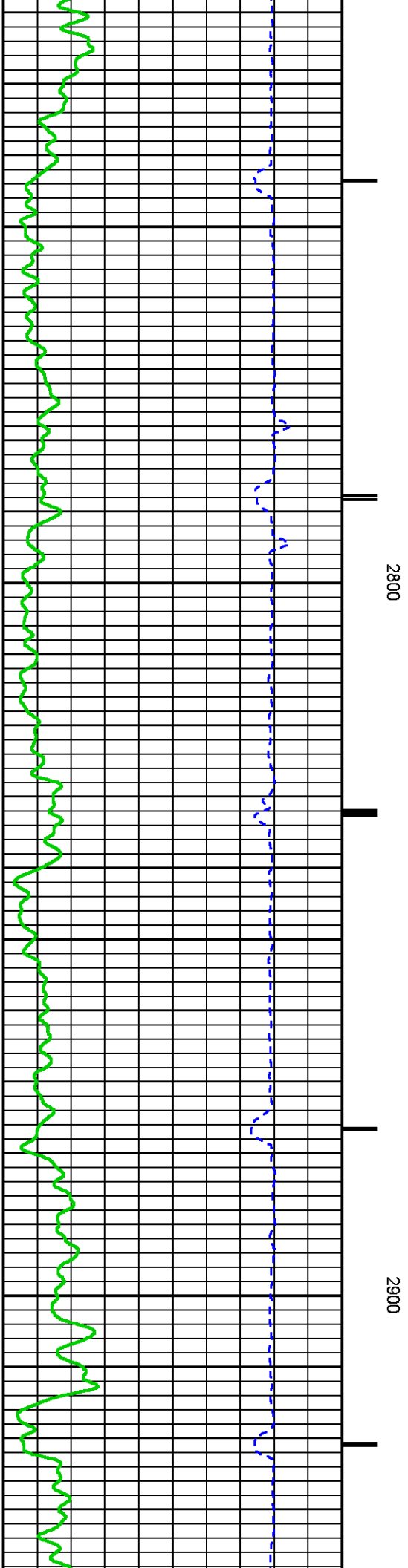
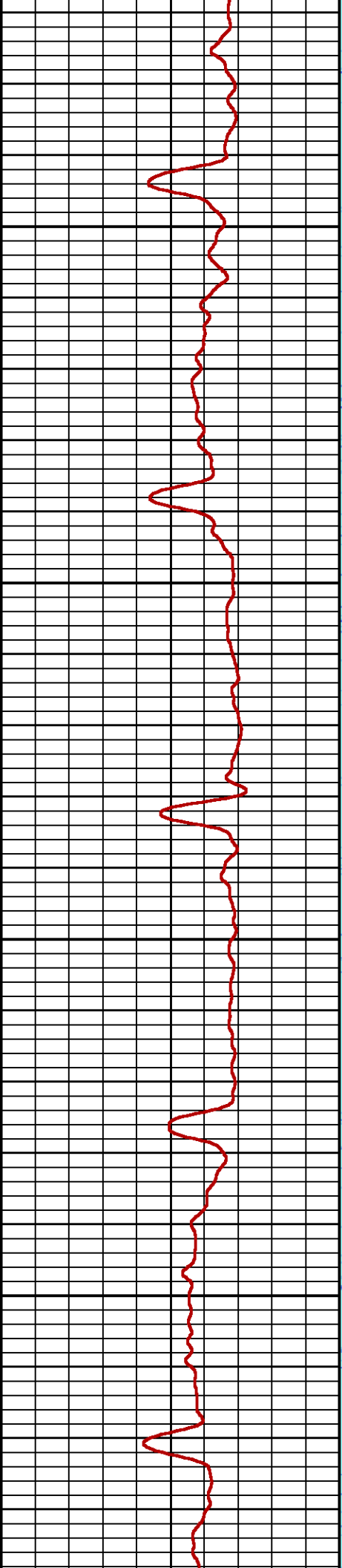
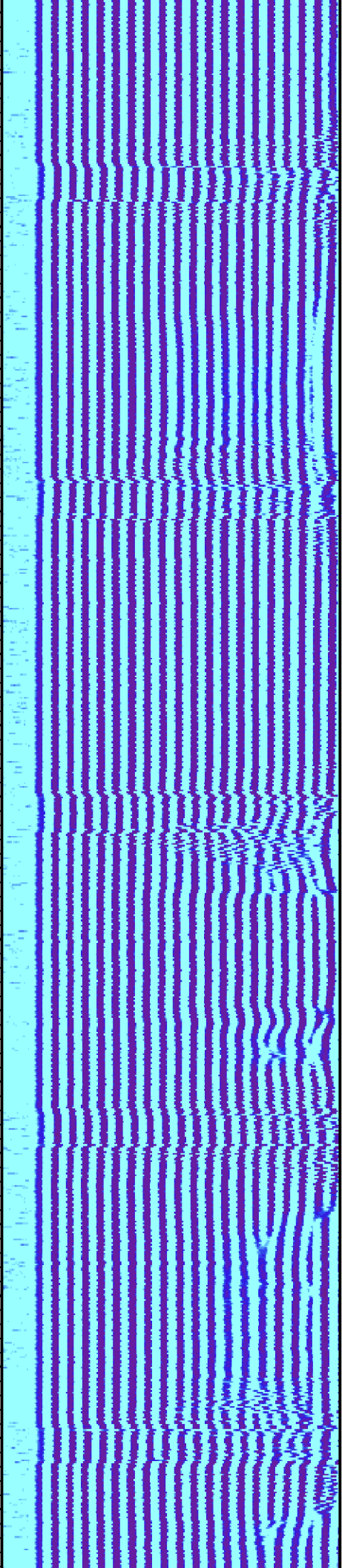
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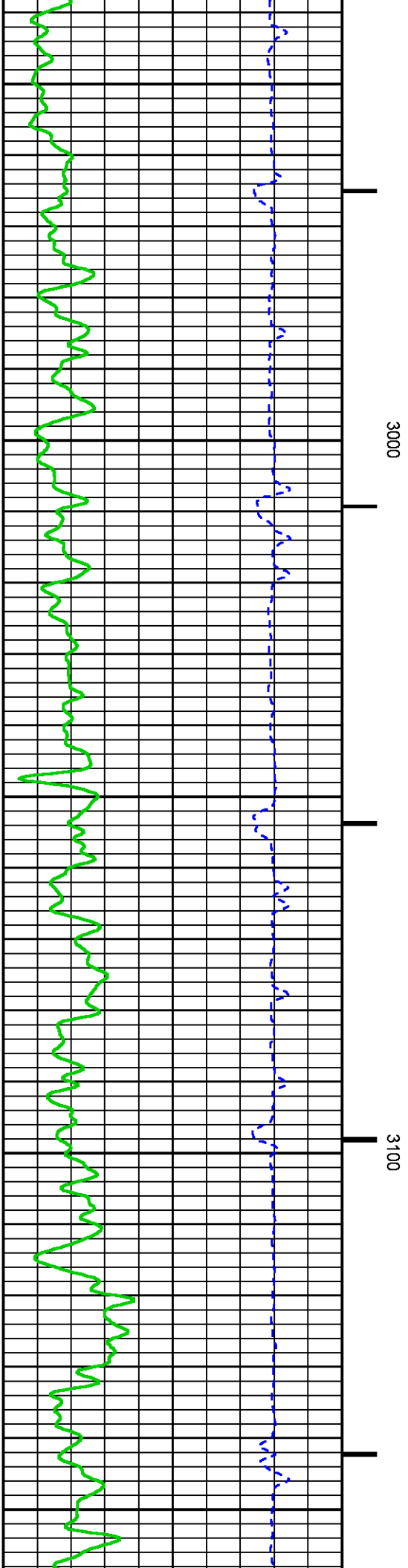
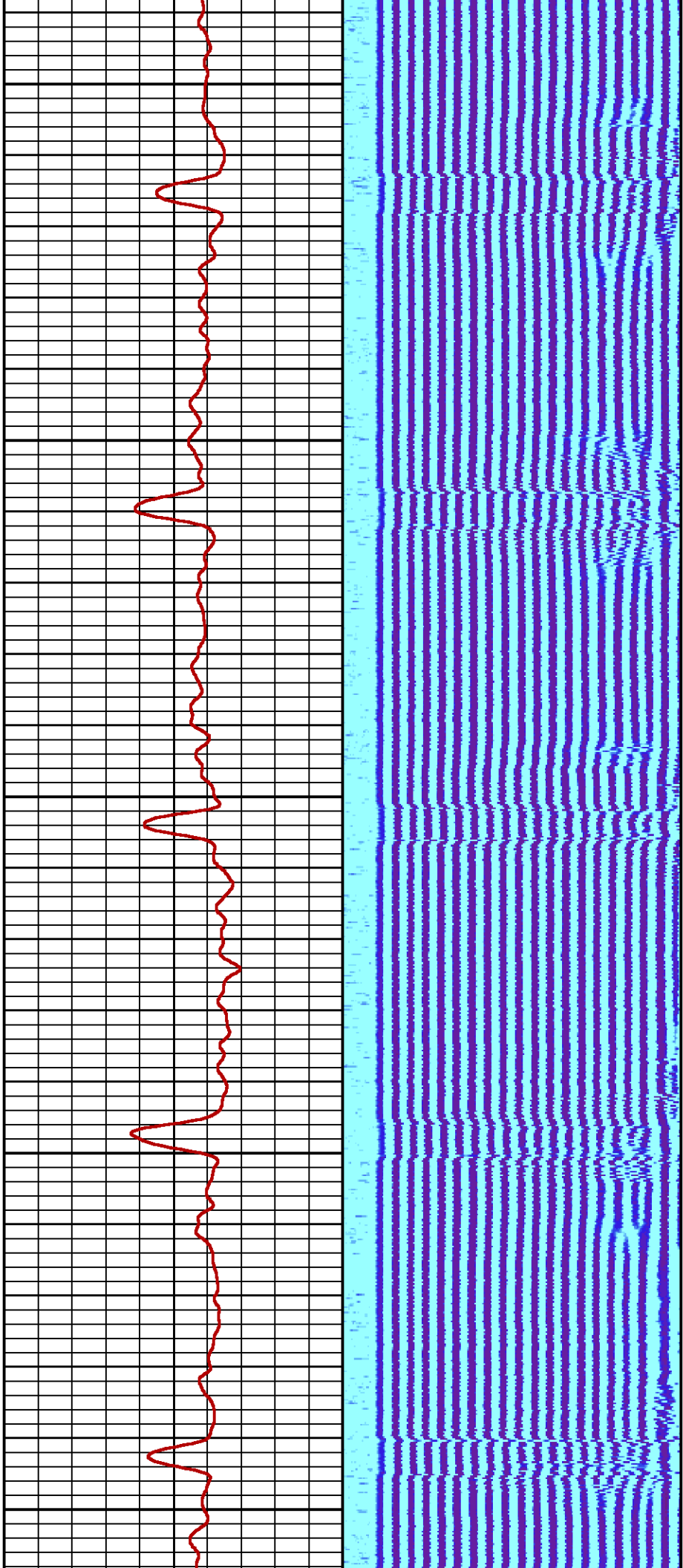
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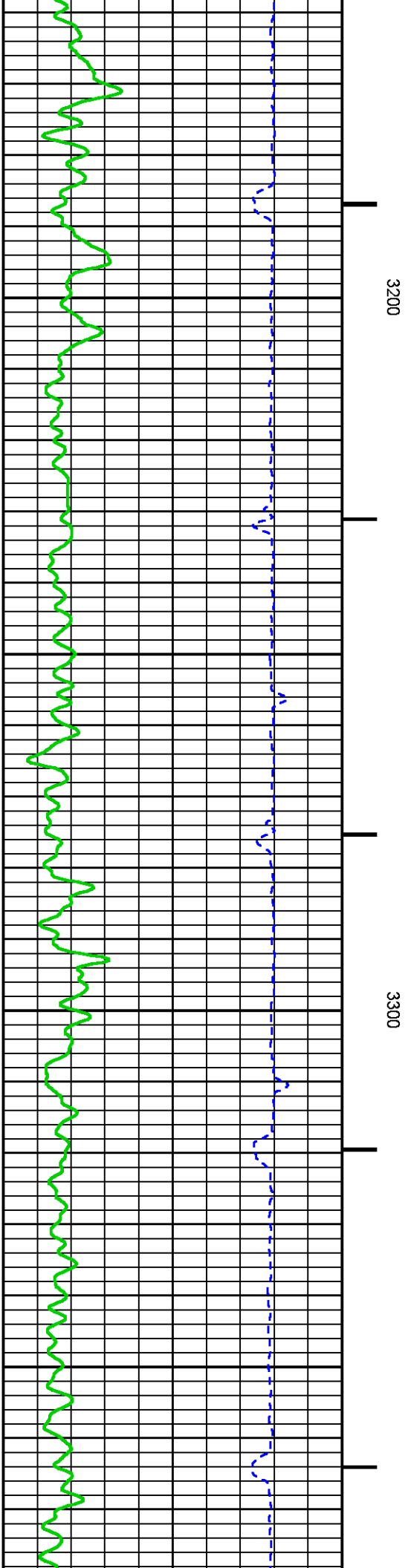
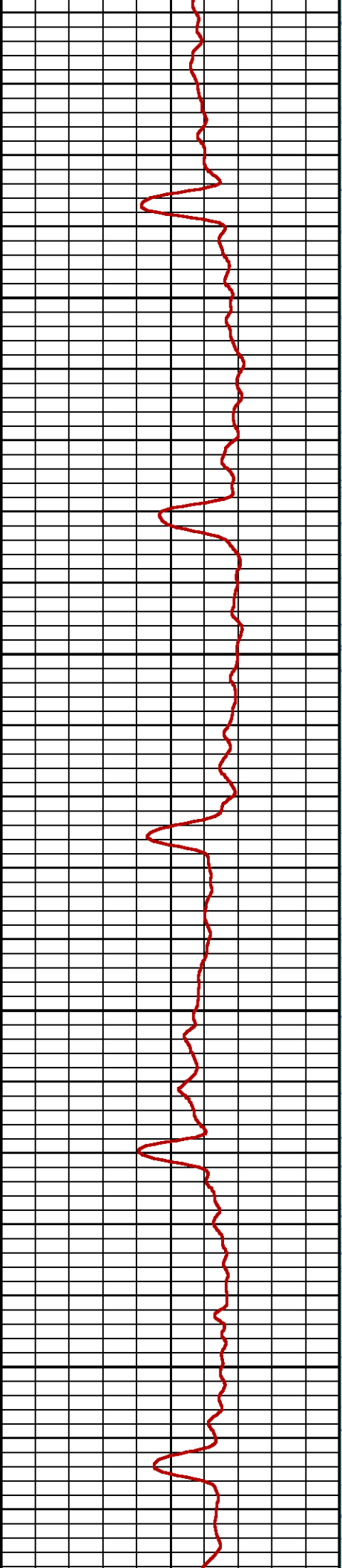
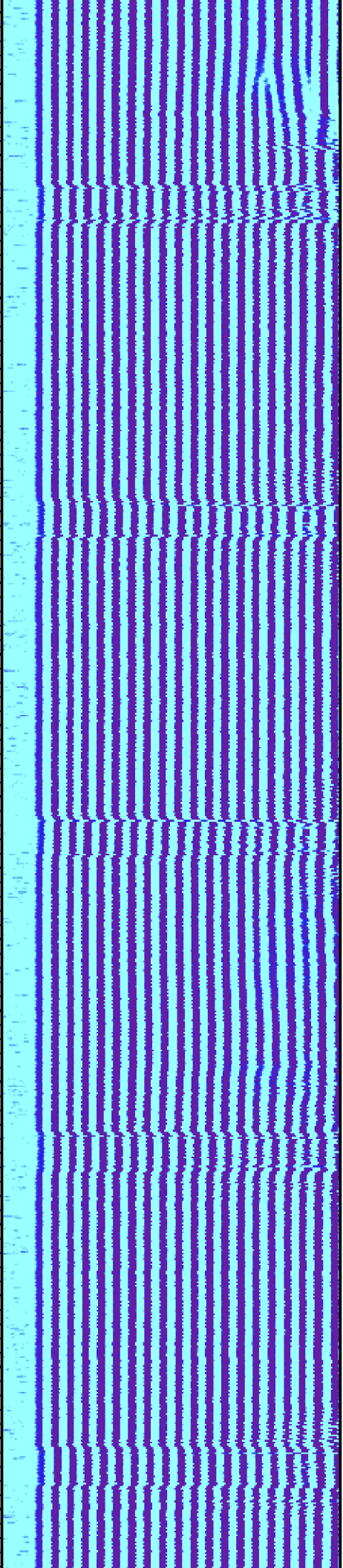
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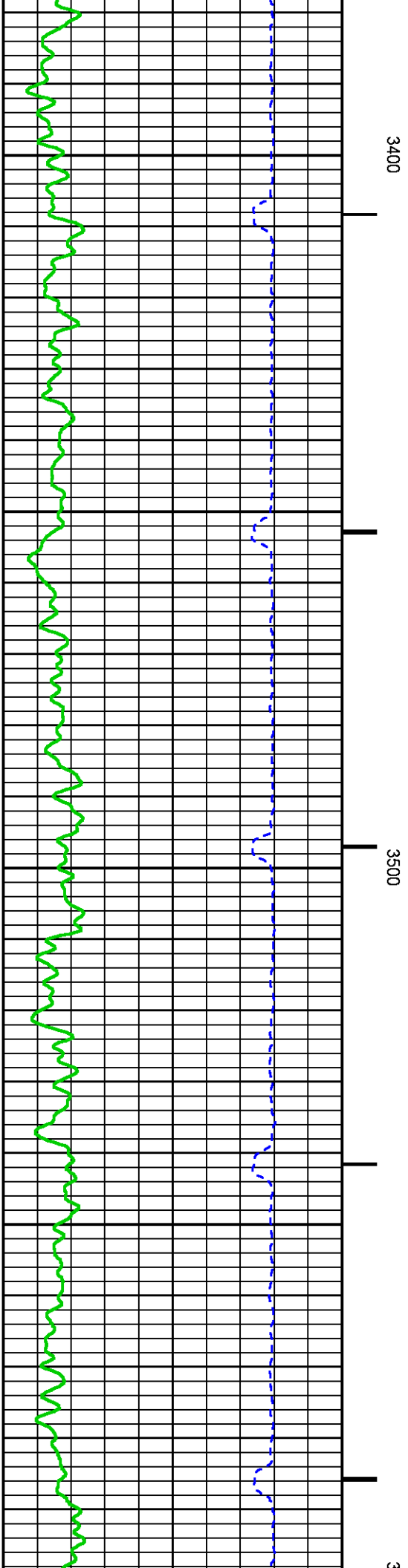
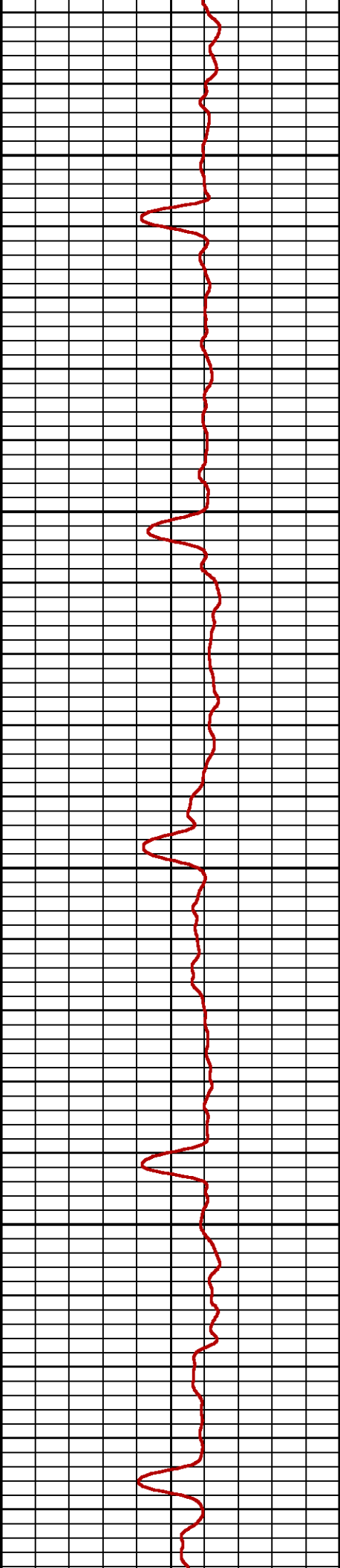
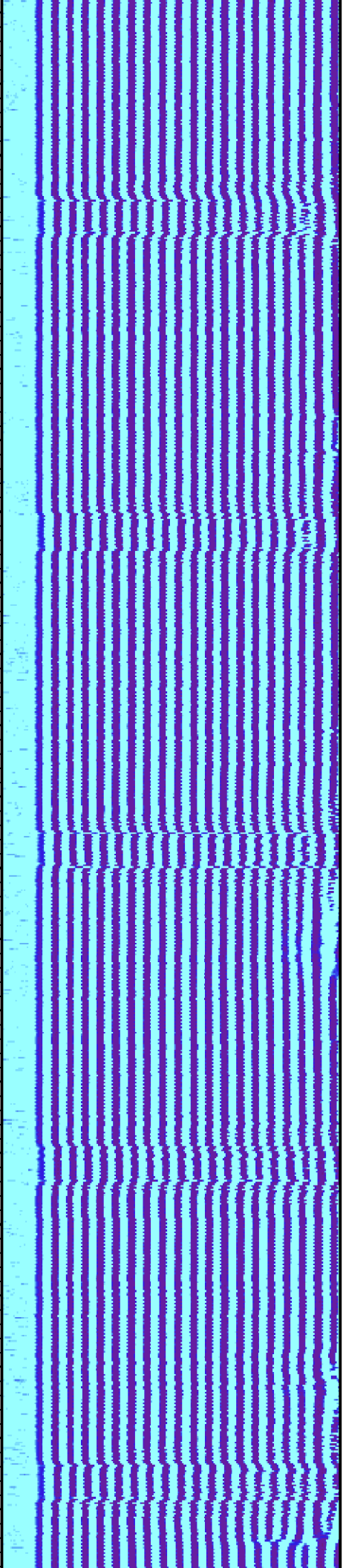


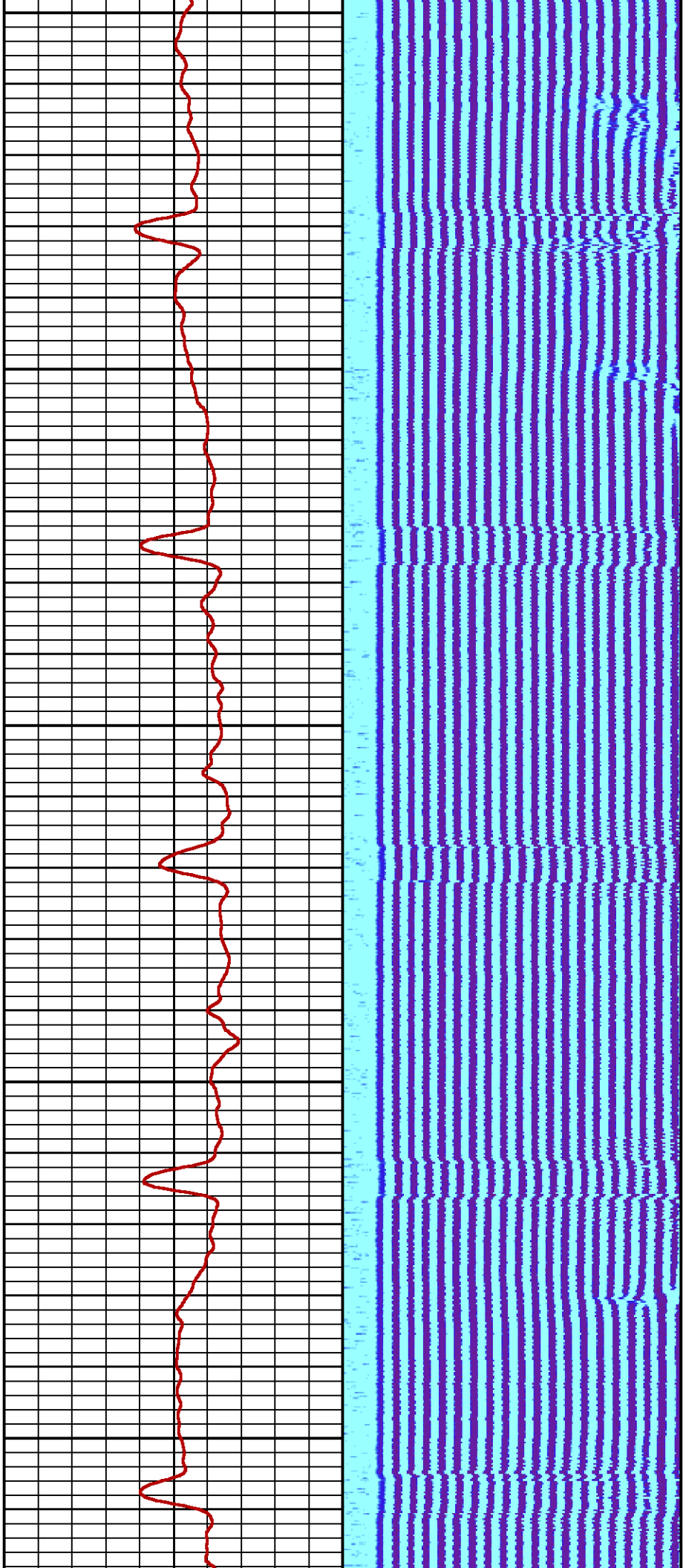








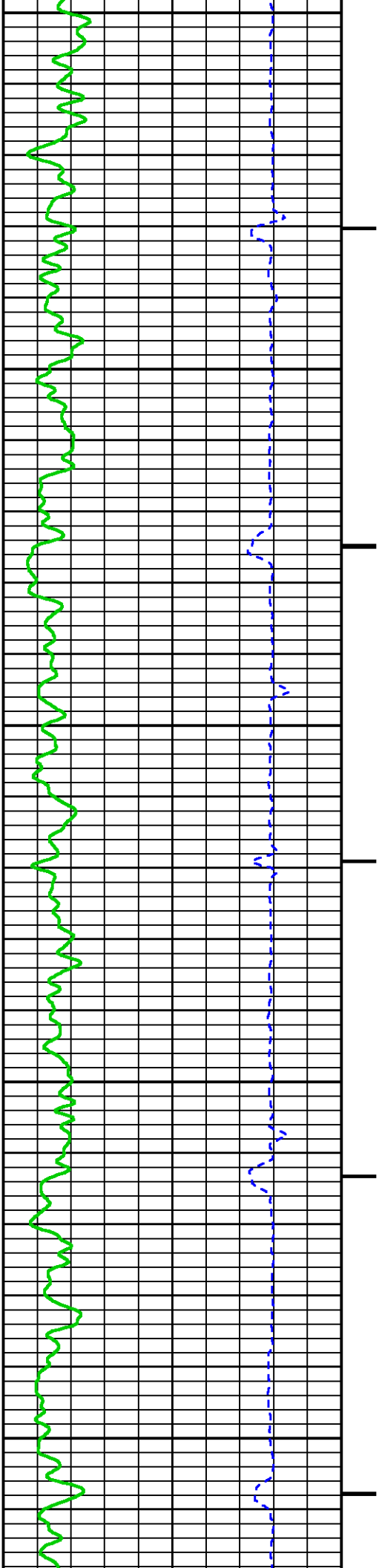


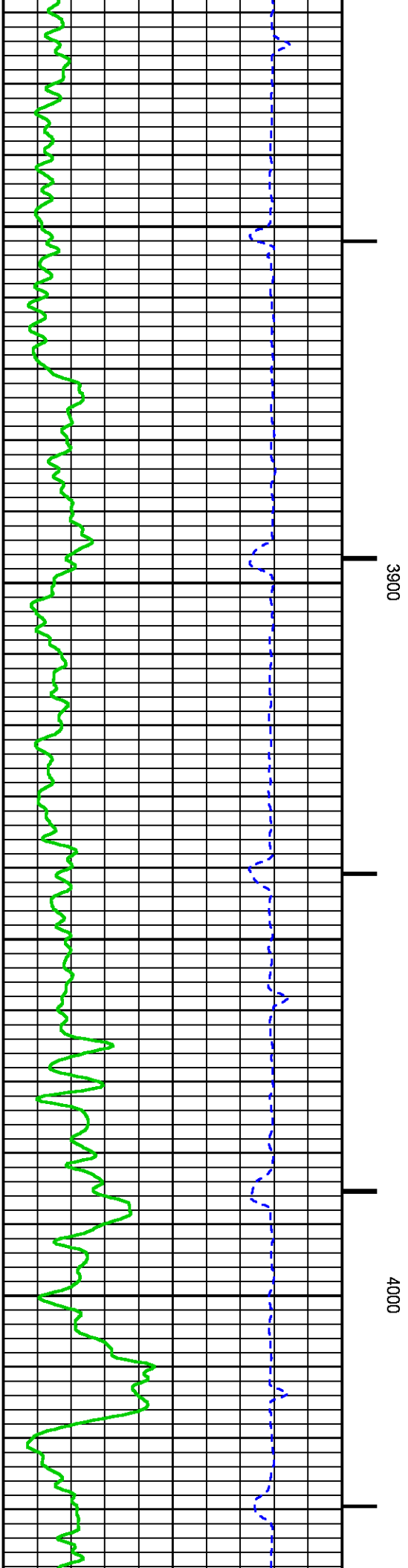
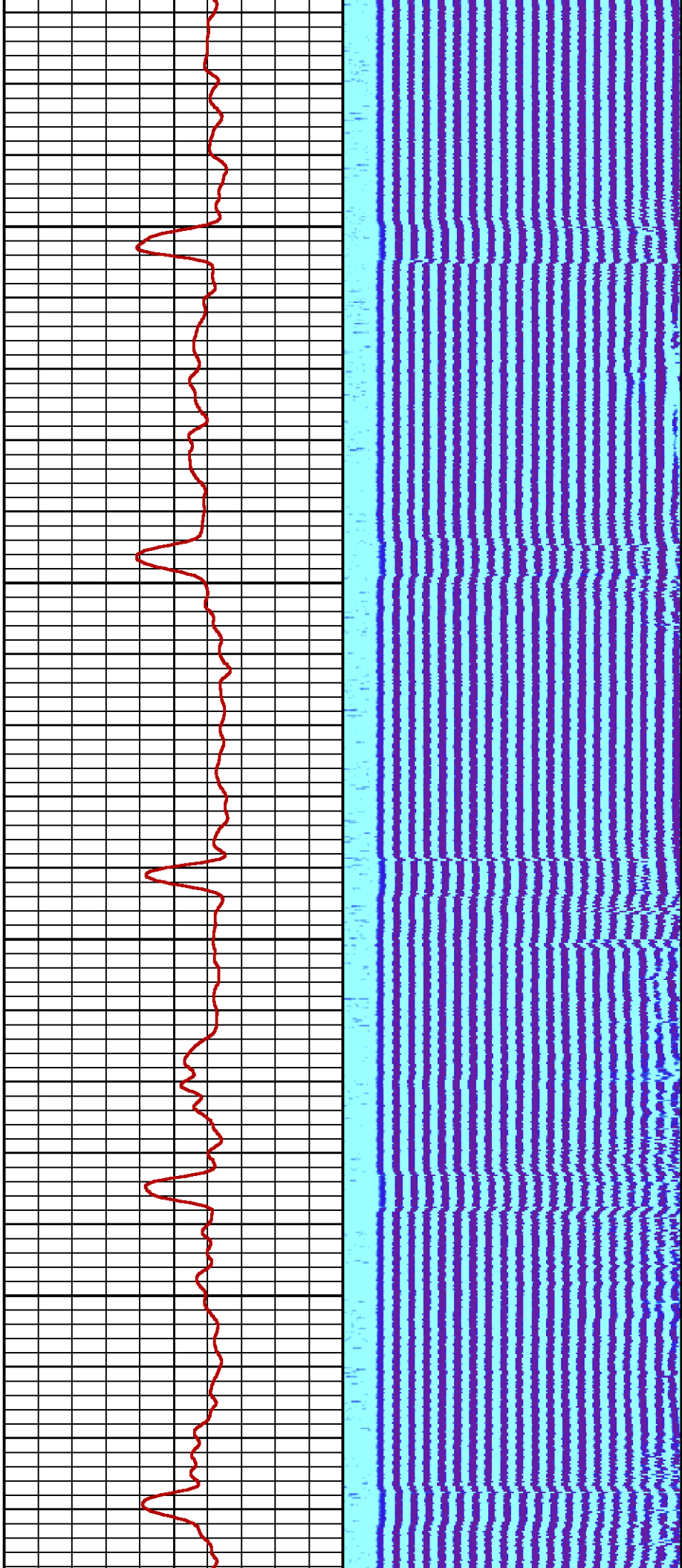


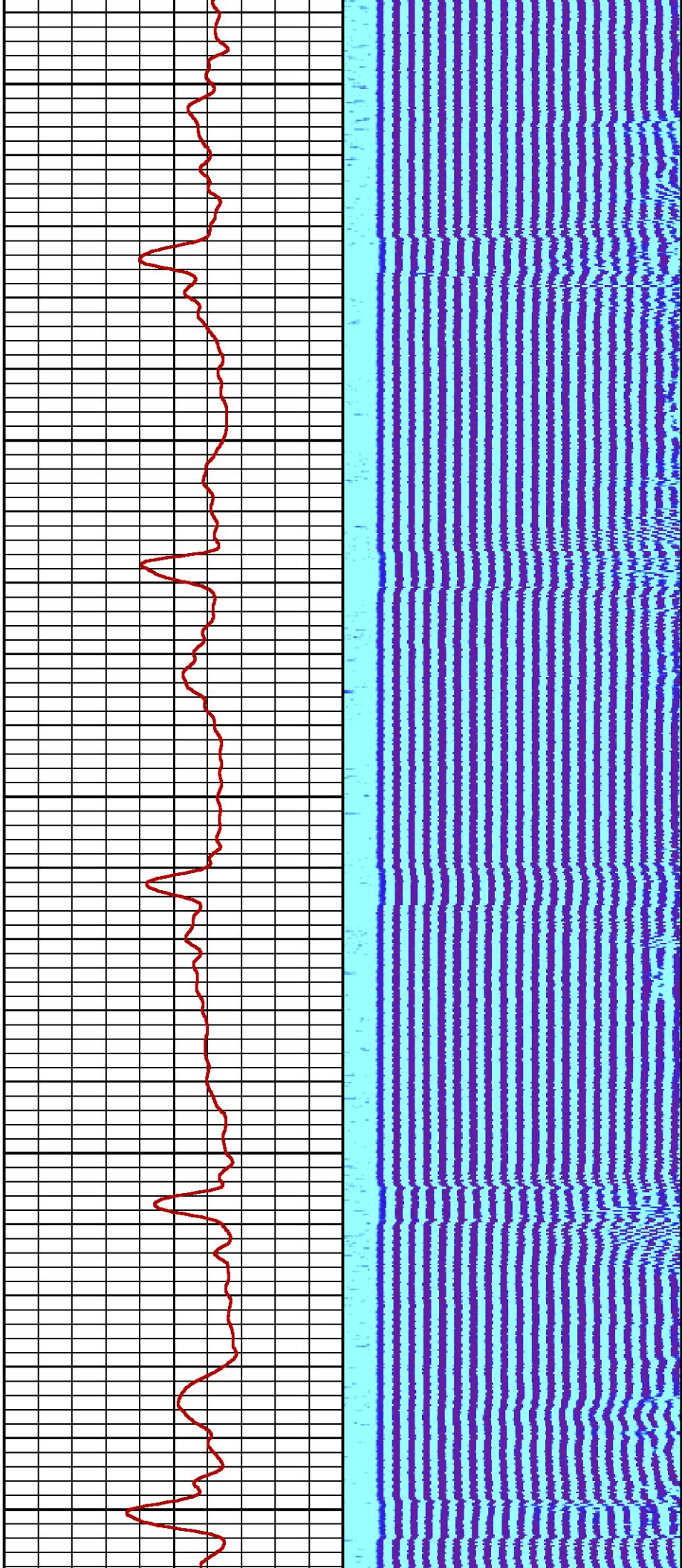
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3700

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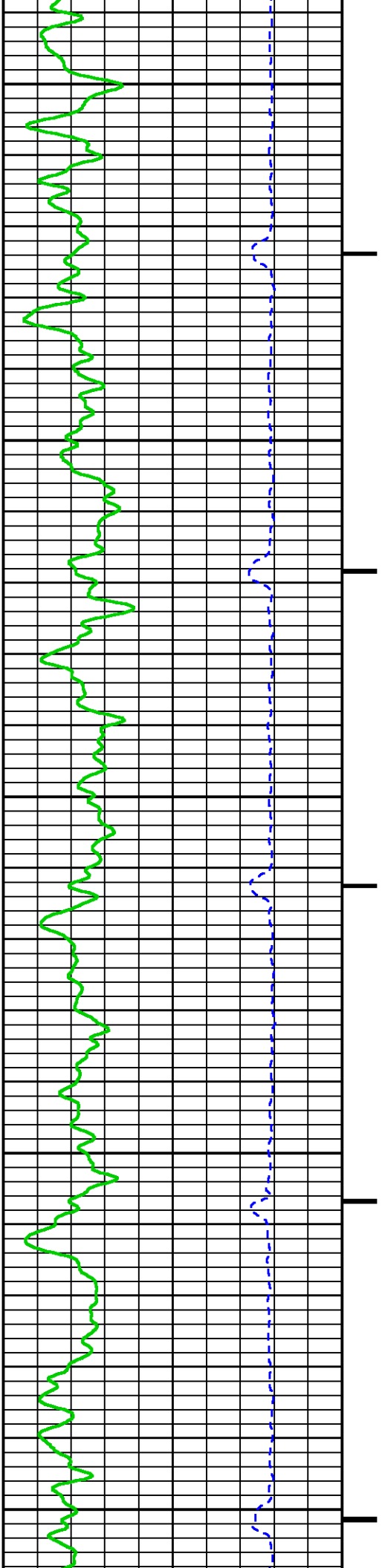


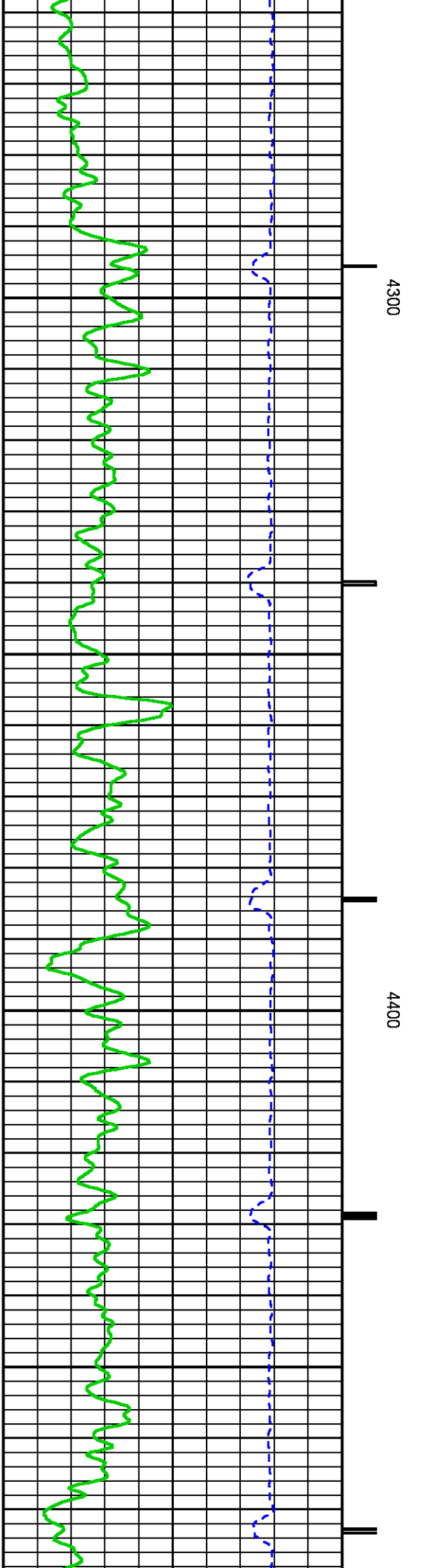
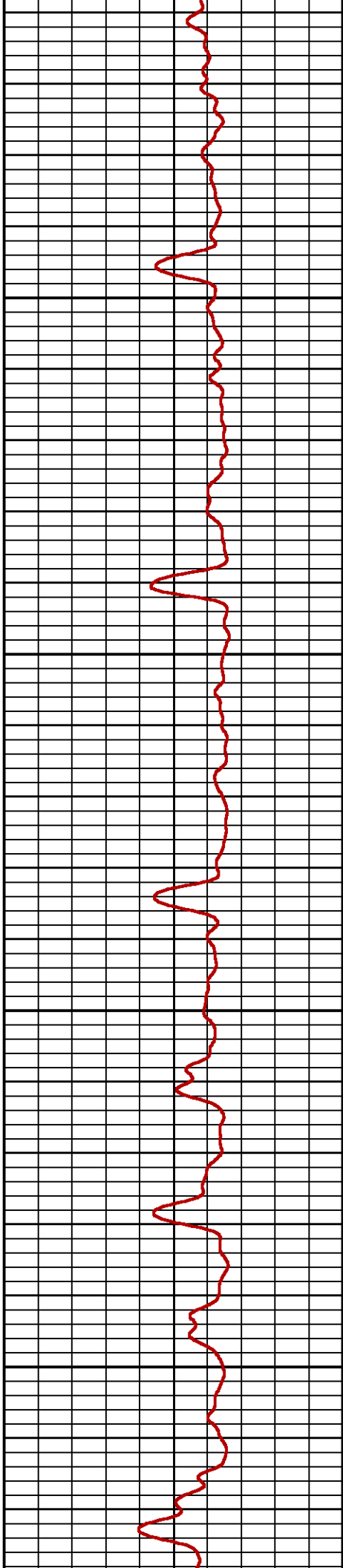
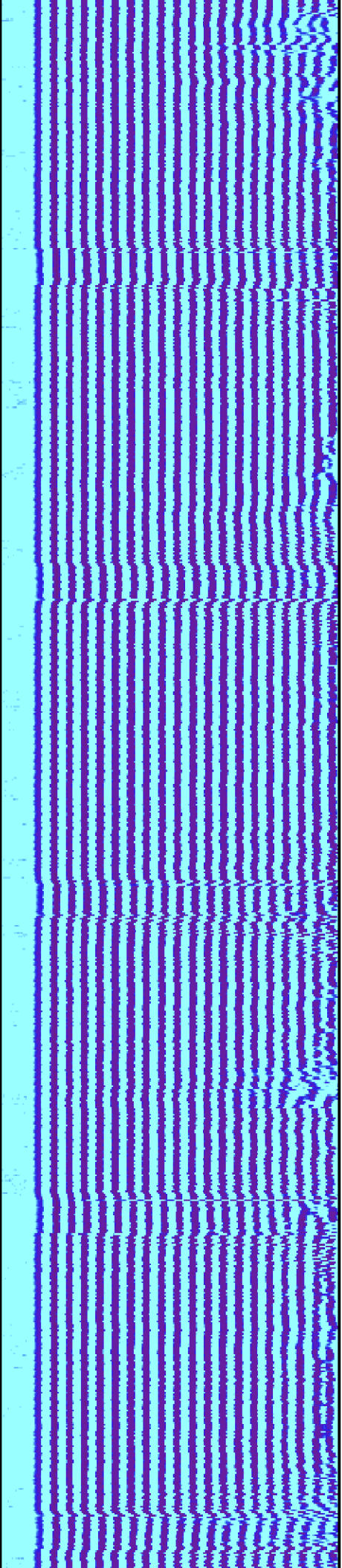


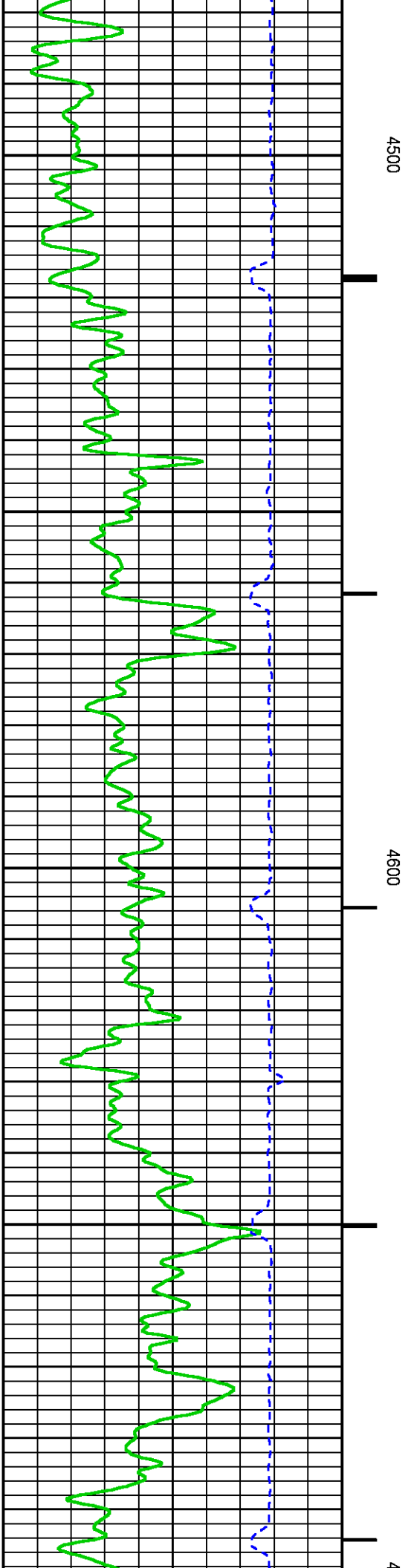
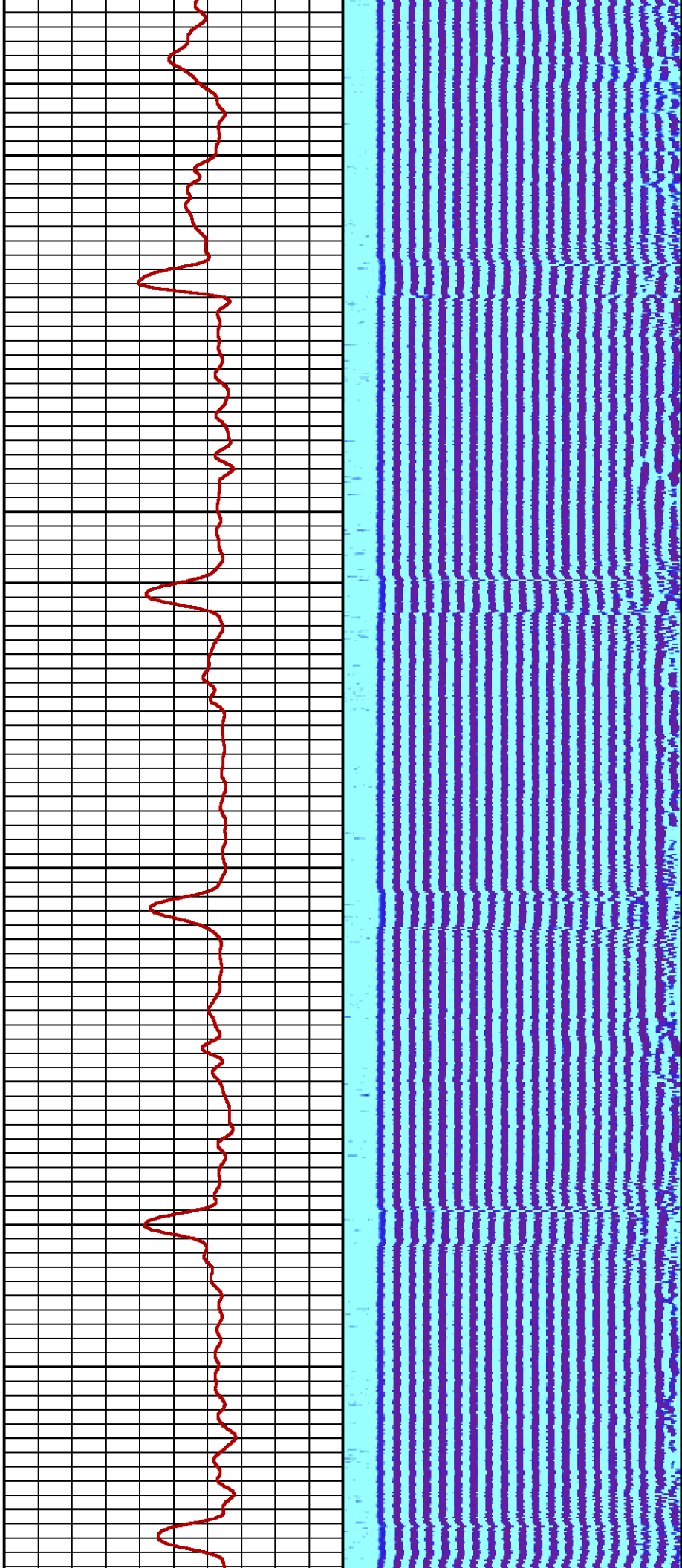


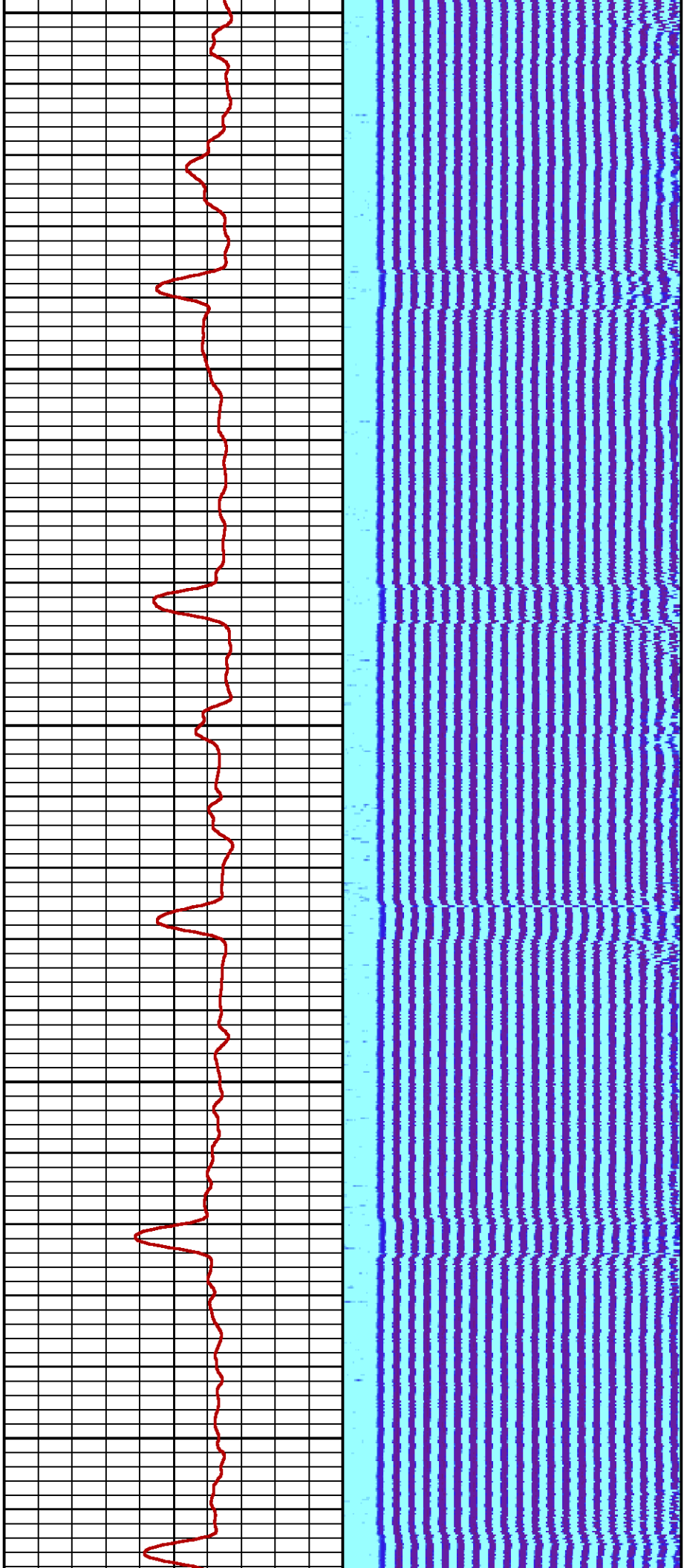
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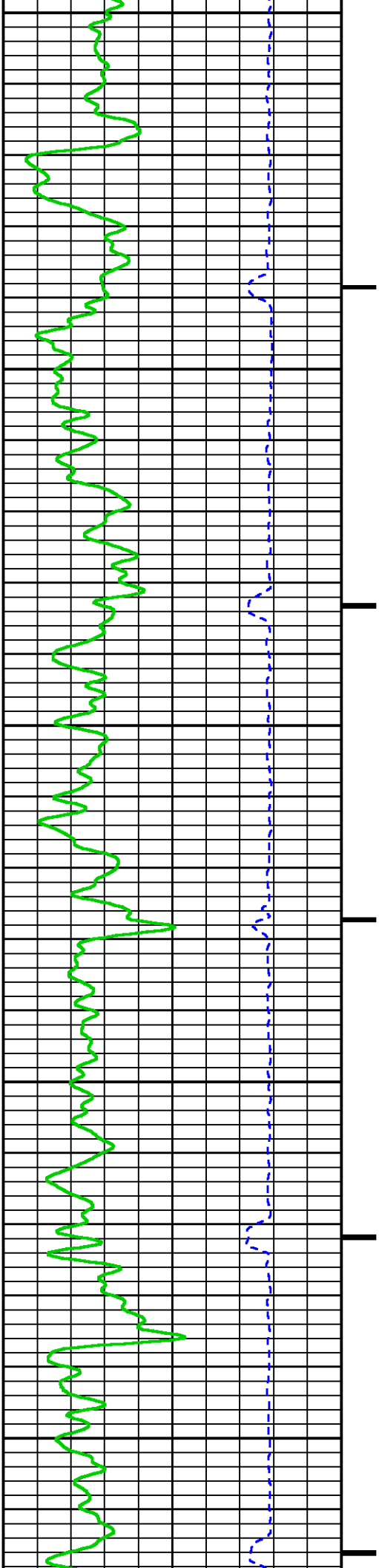


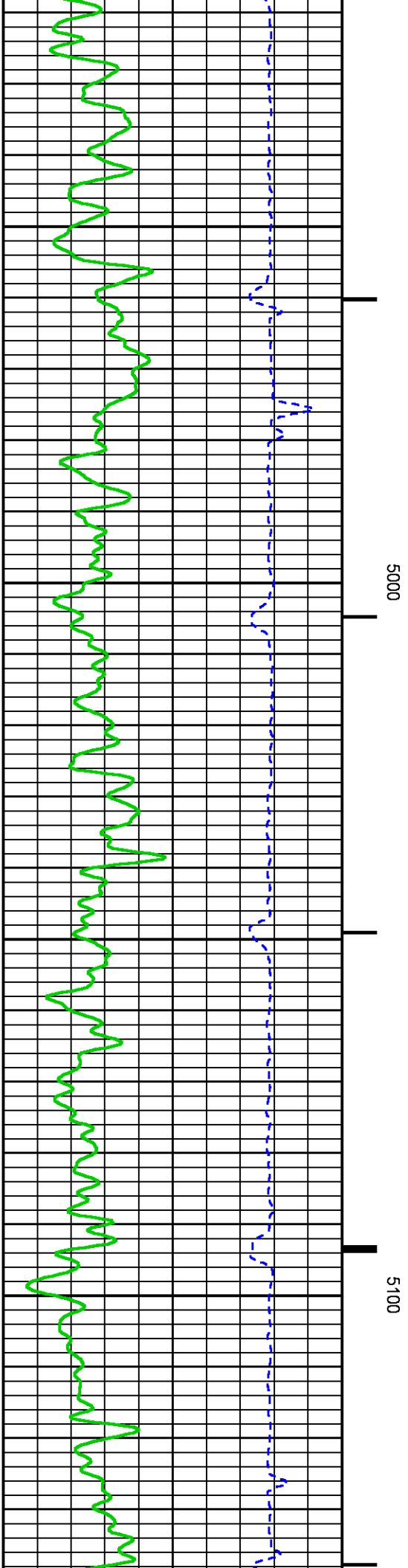
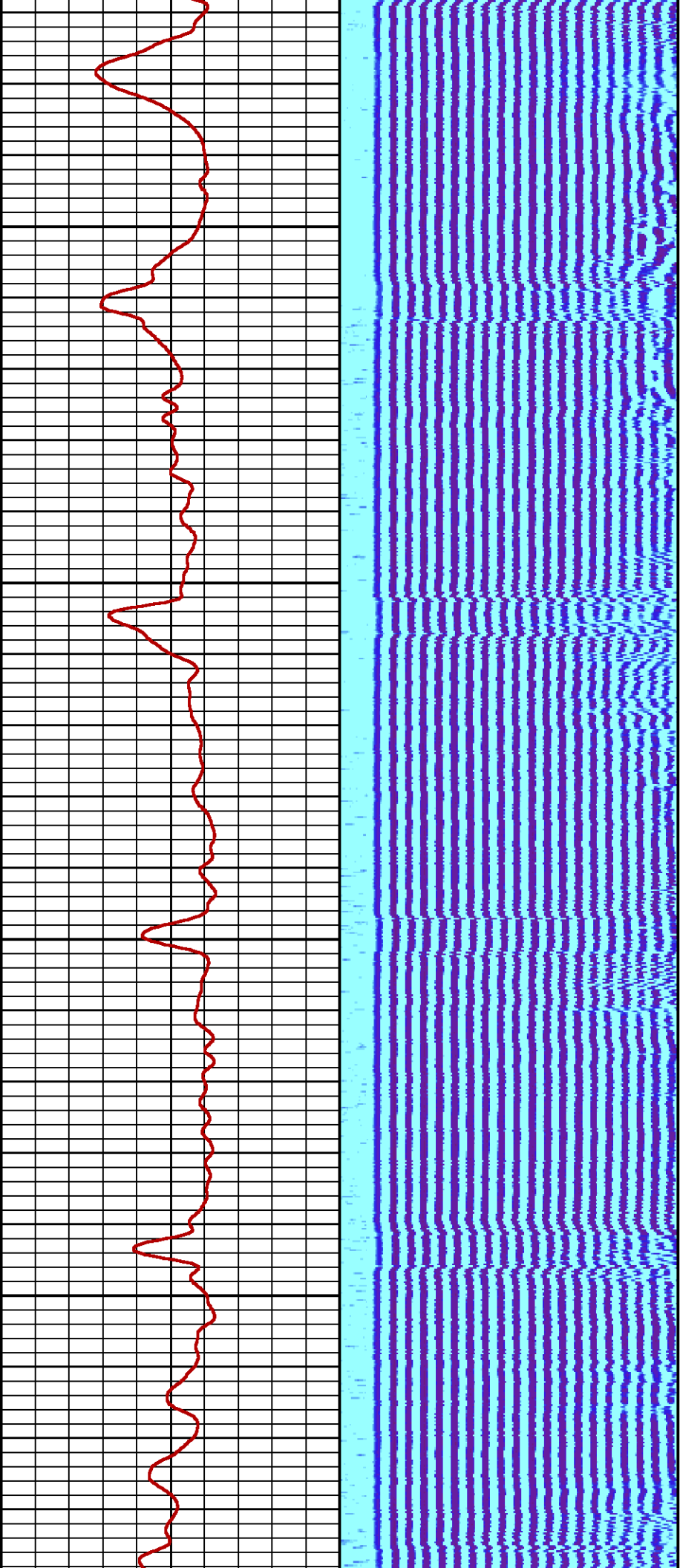


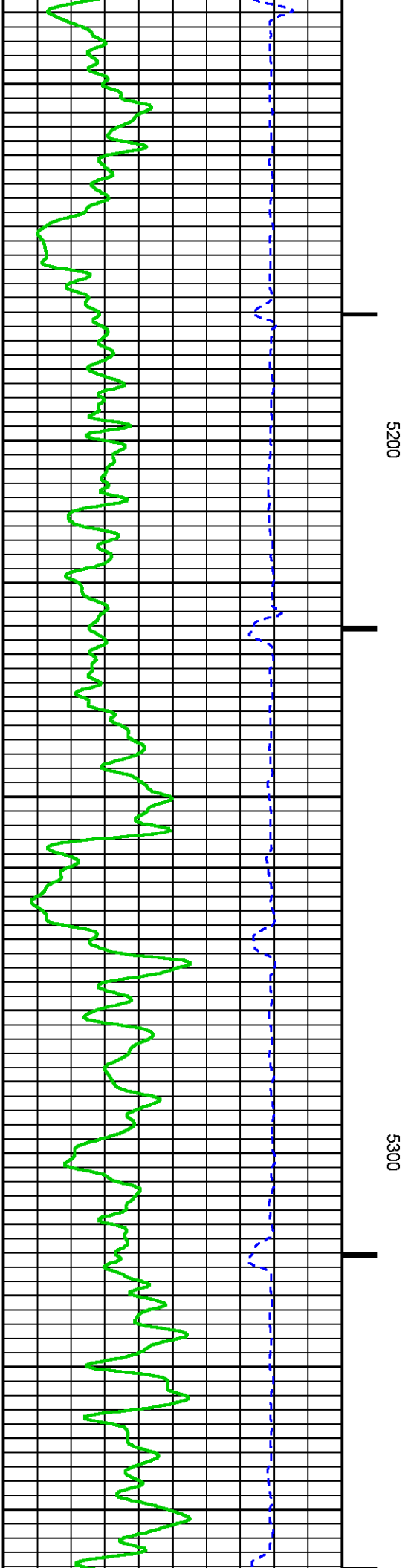
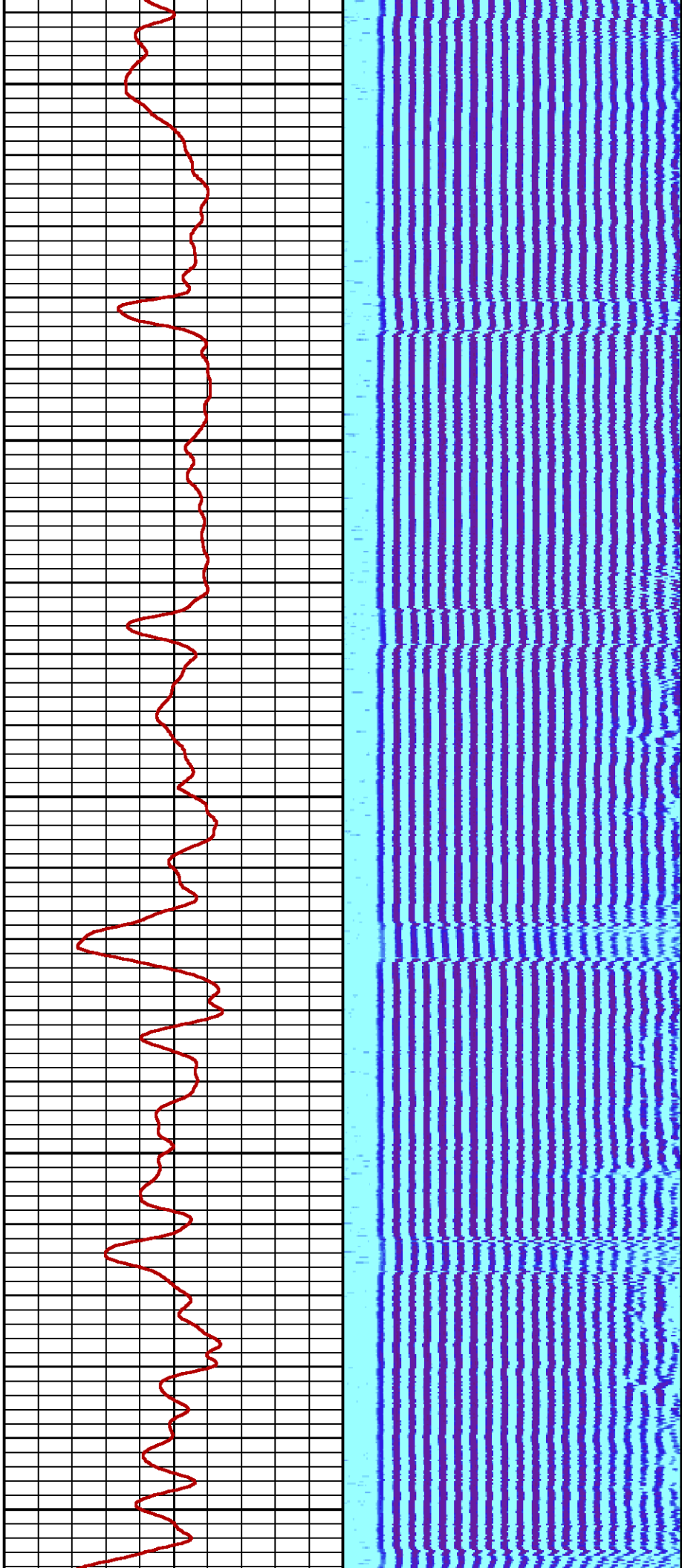
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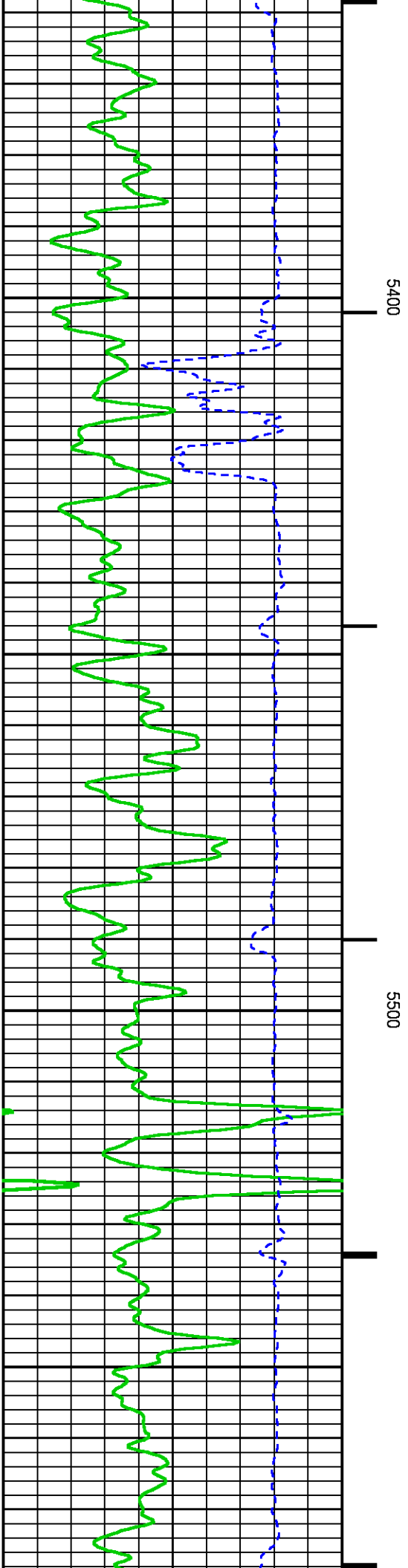
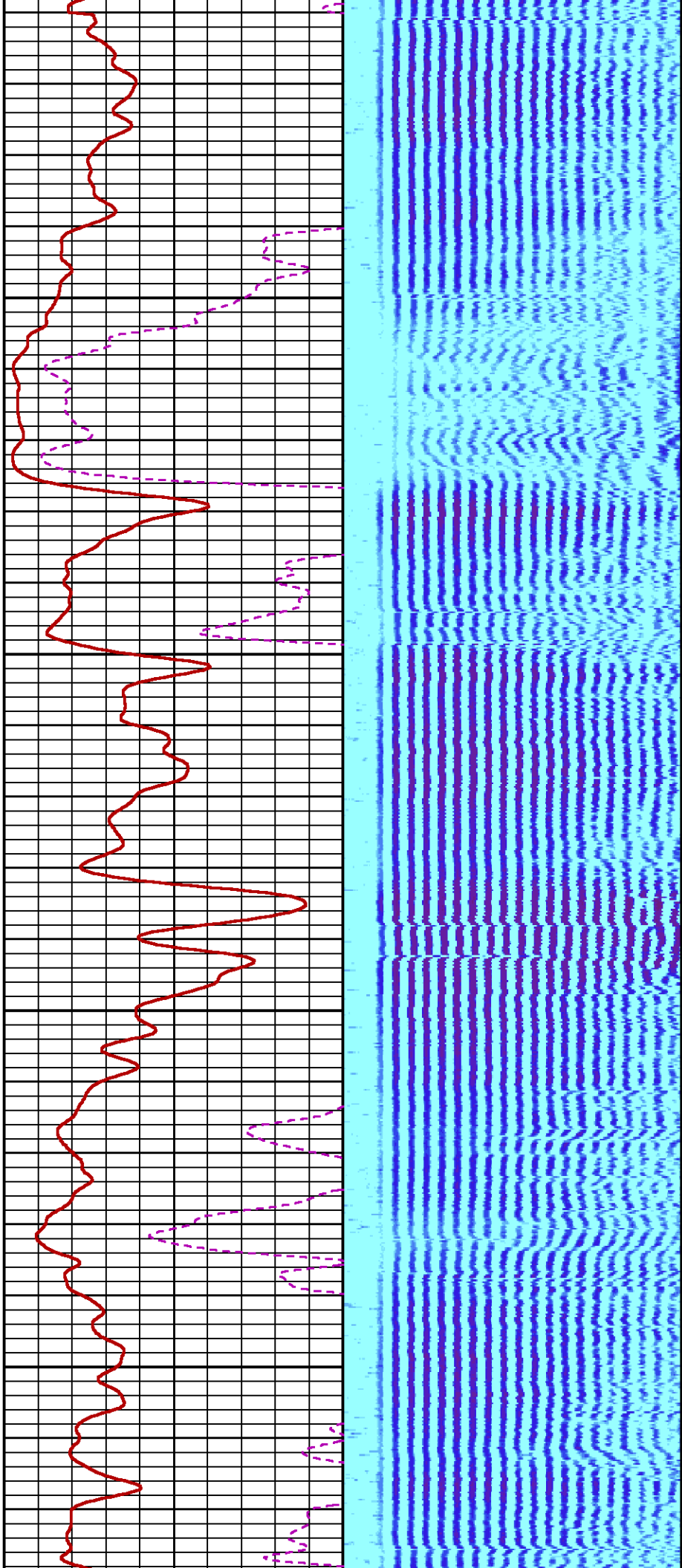
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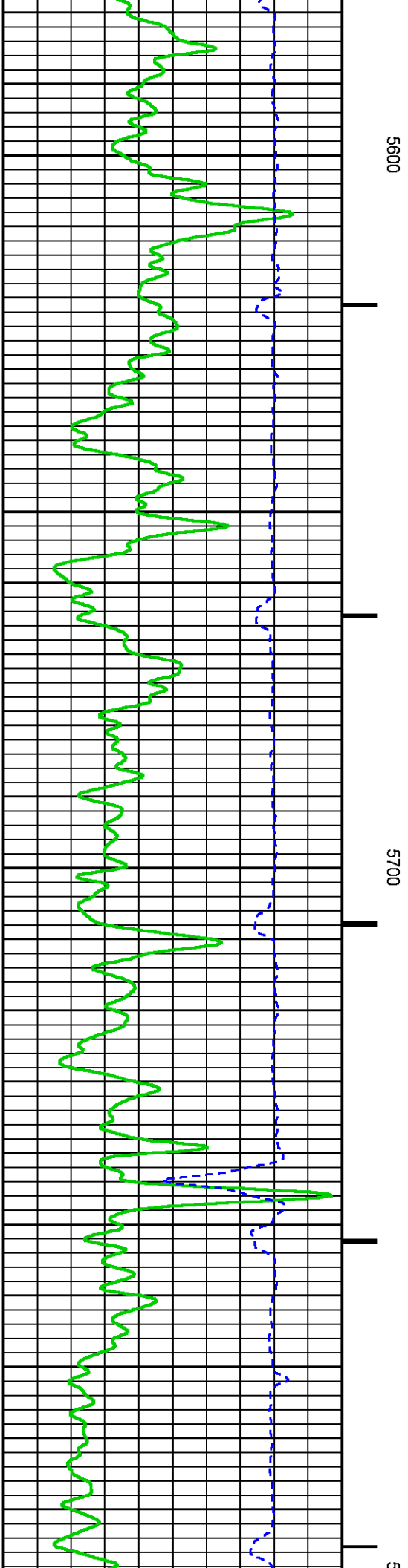
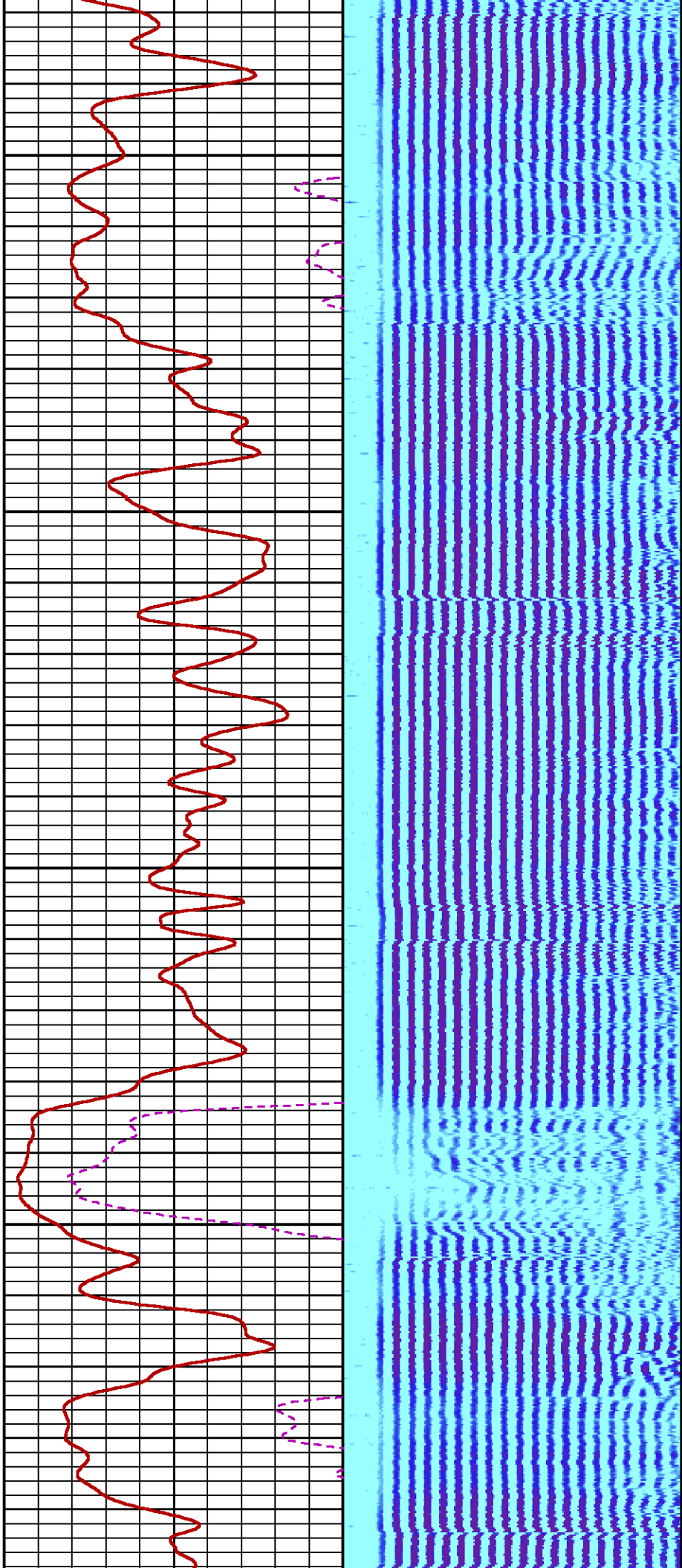
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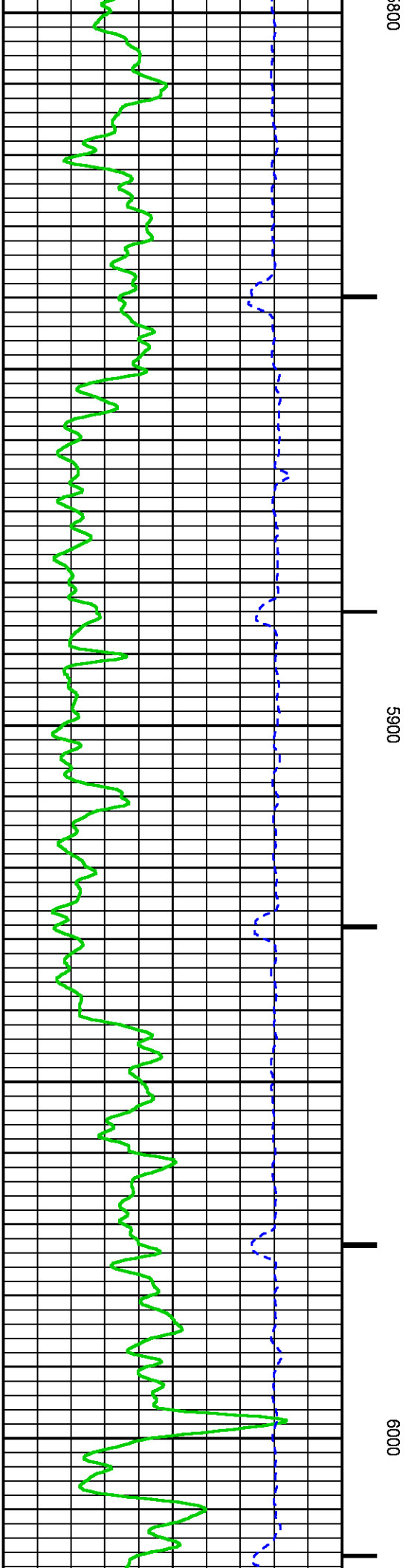
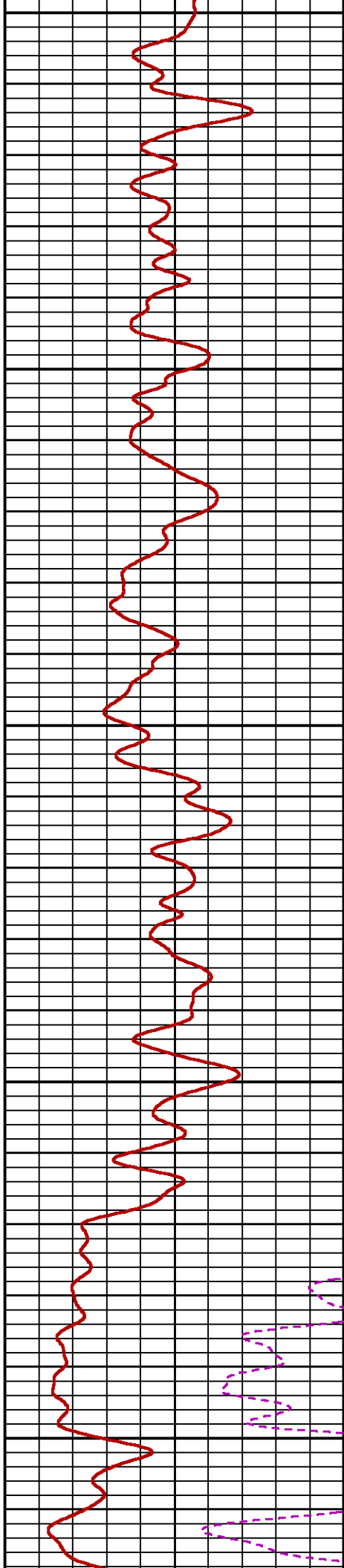
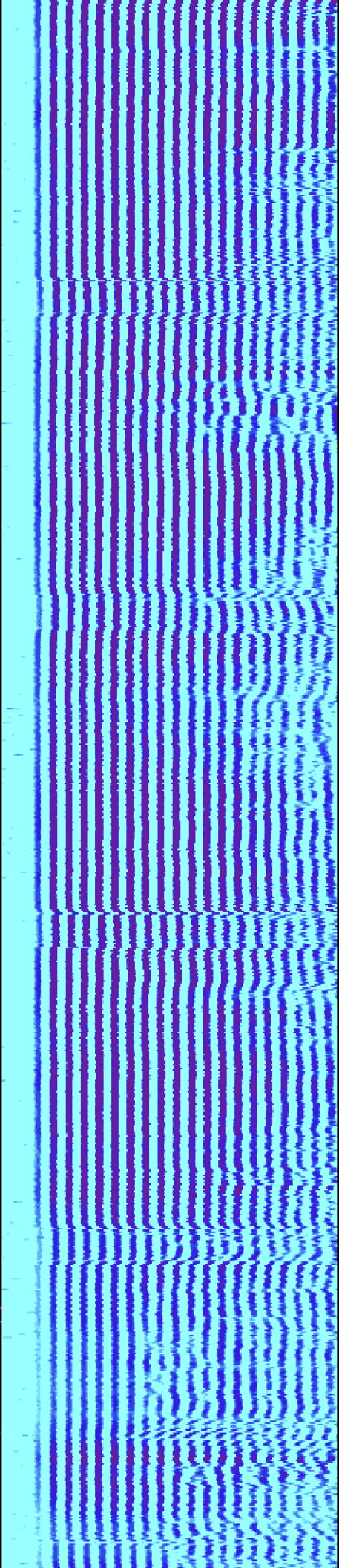


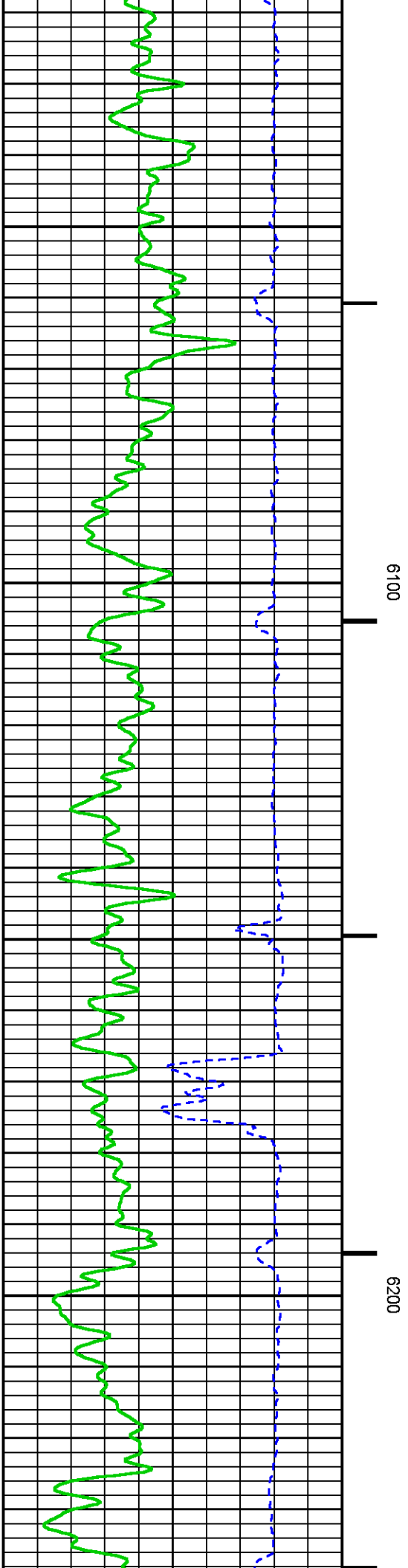
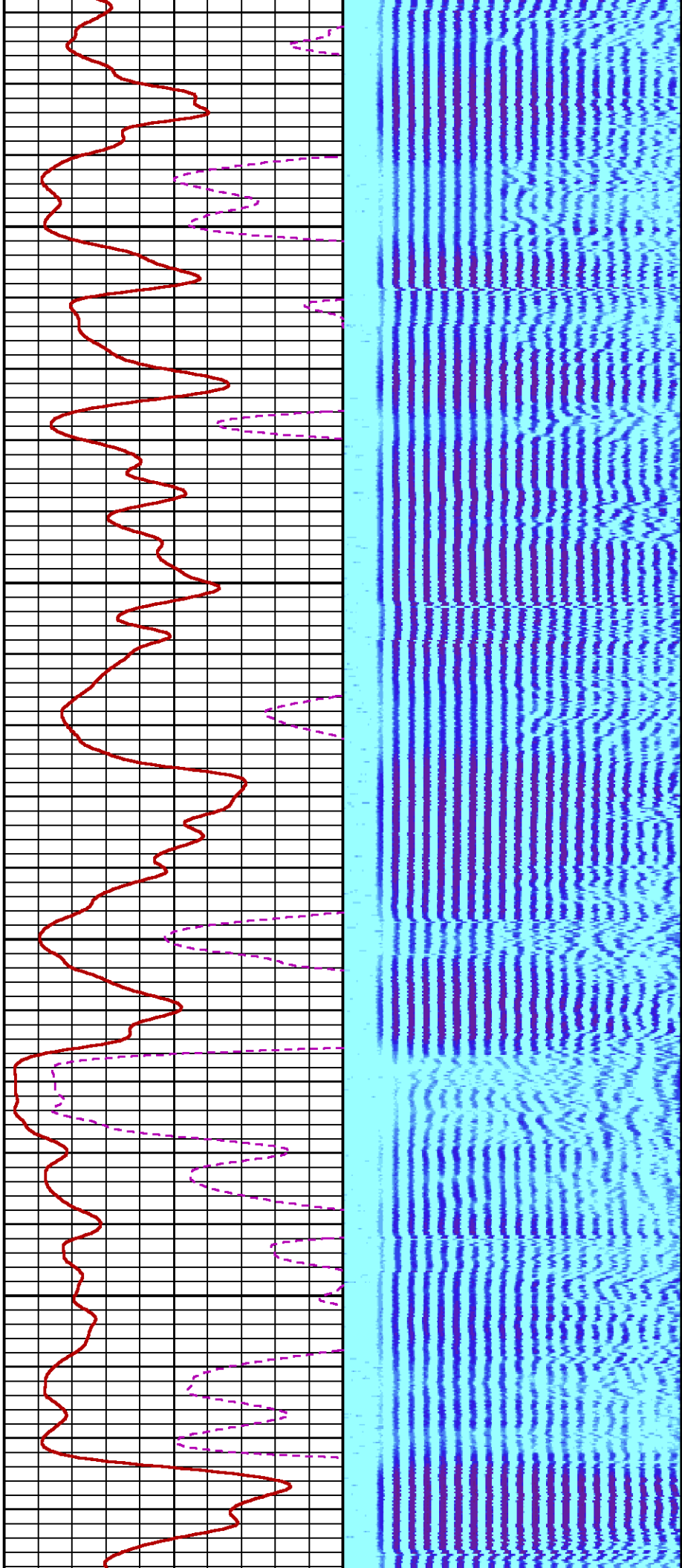


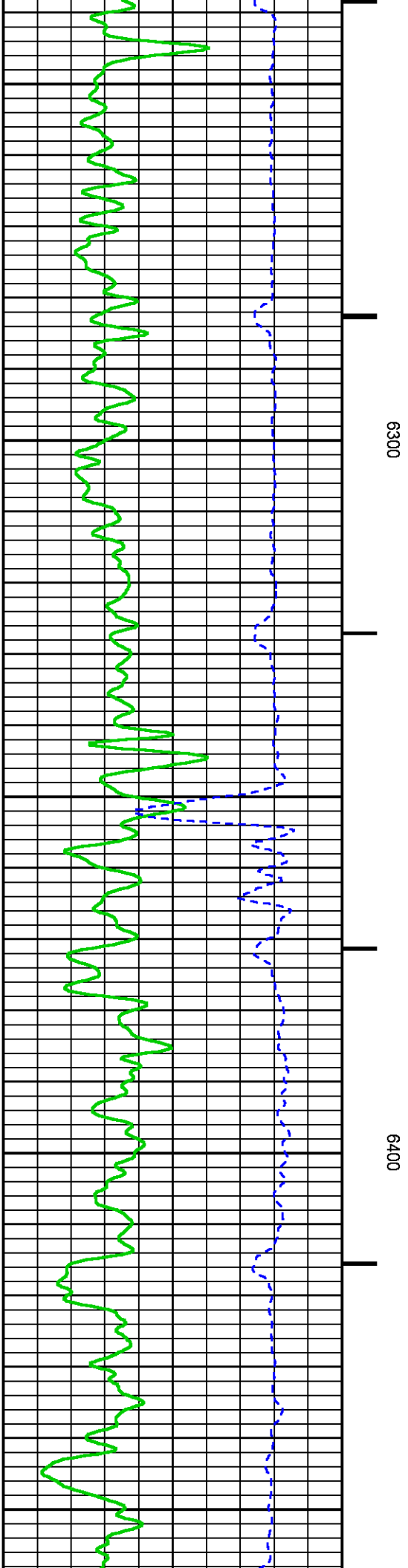
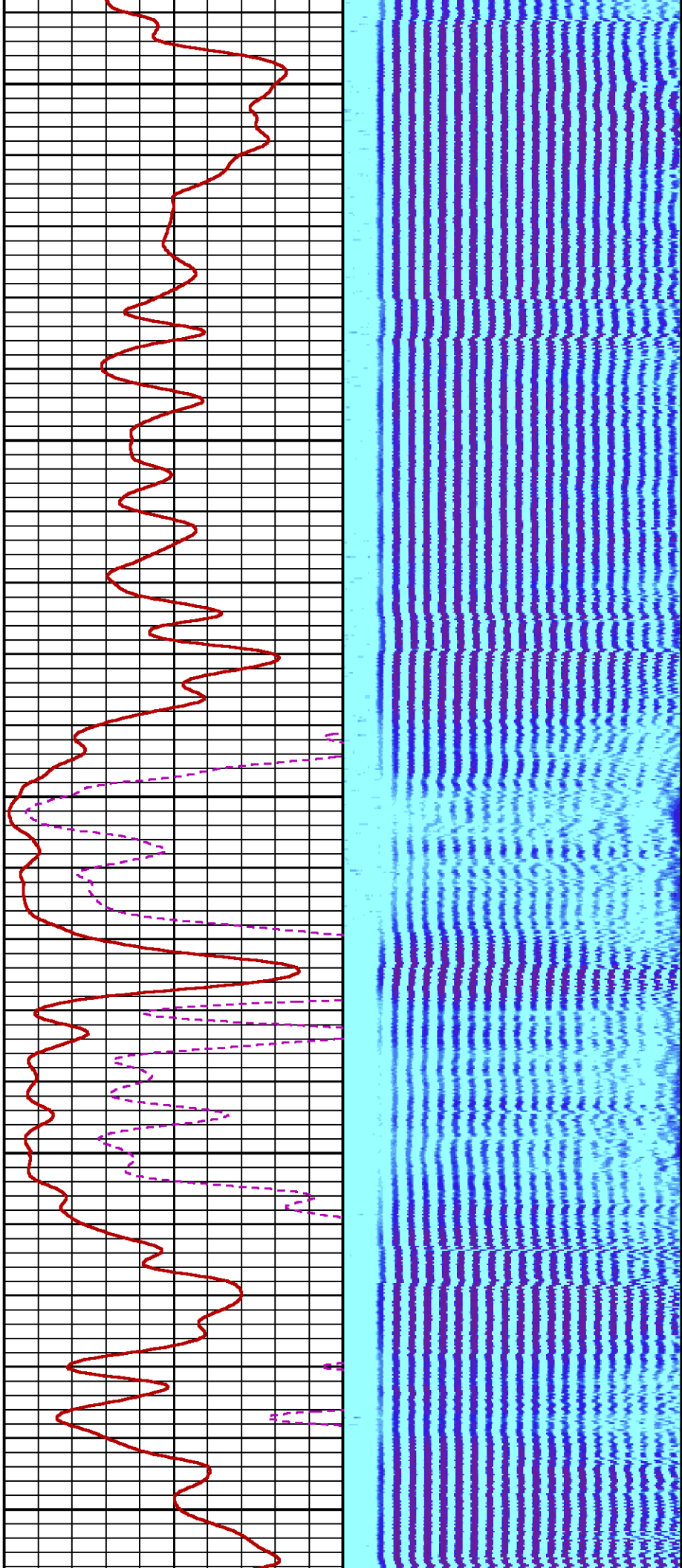


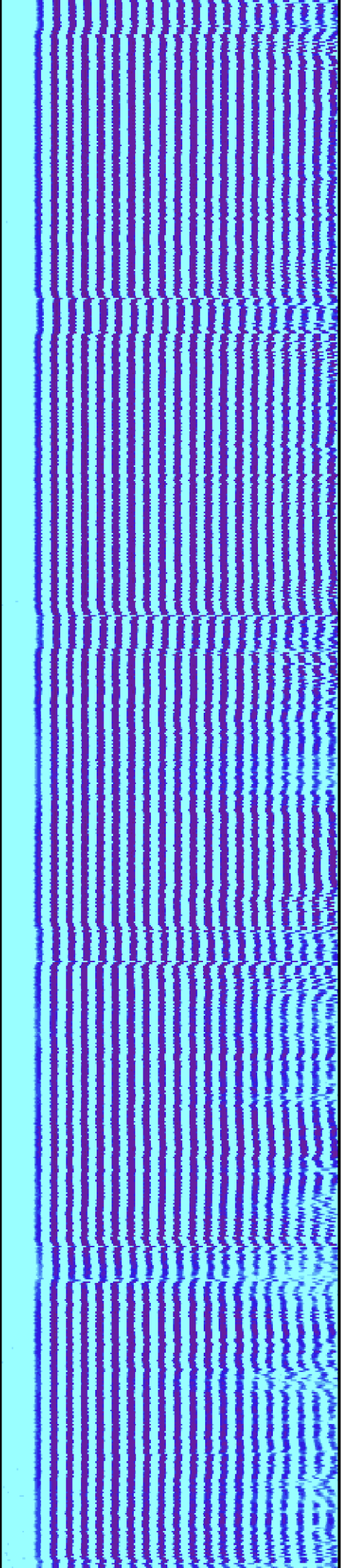
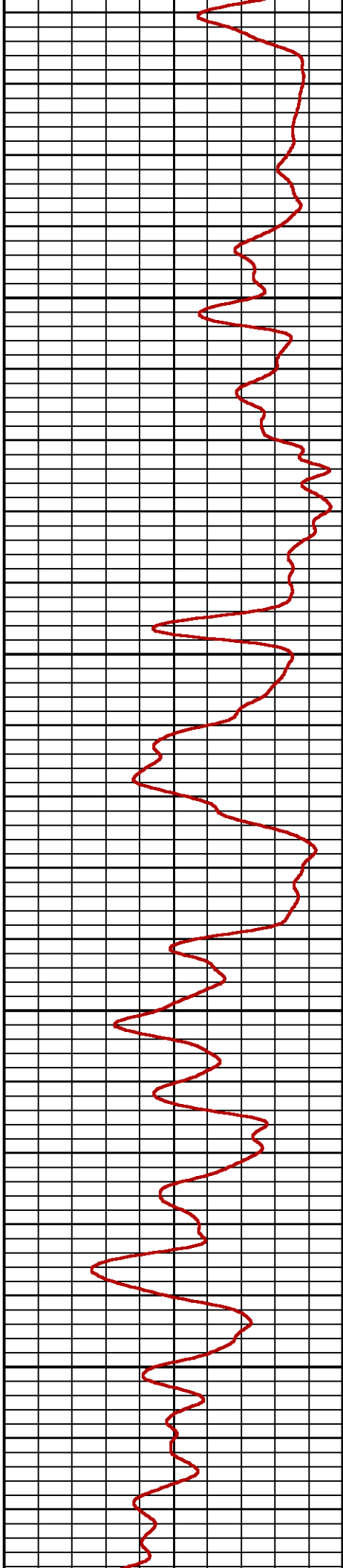
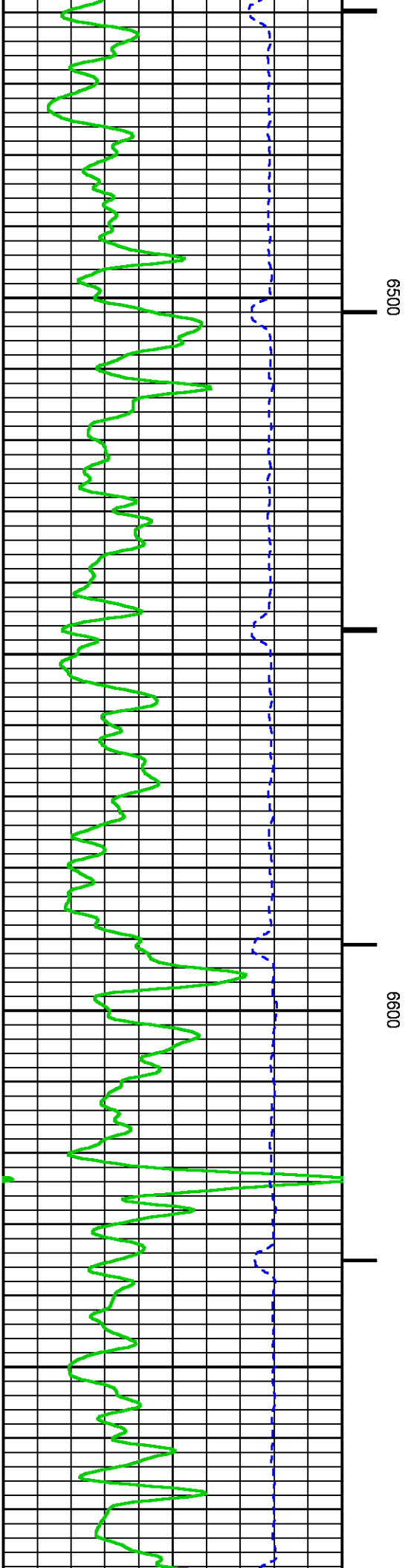


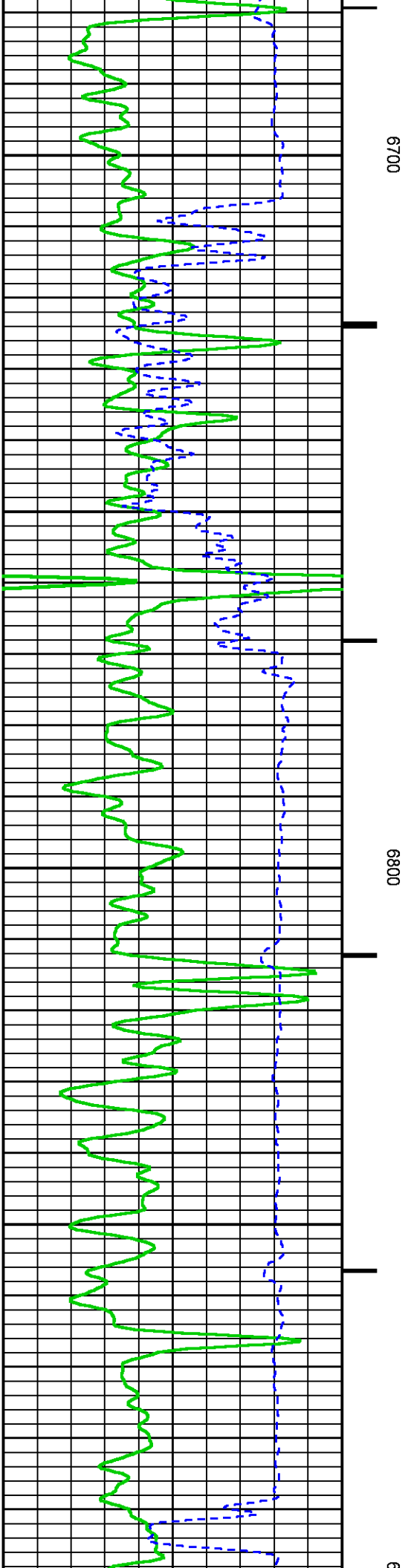
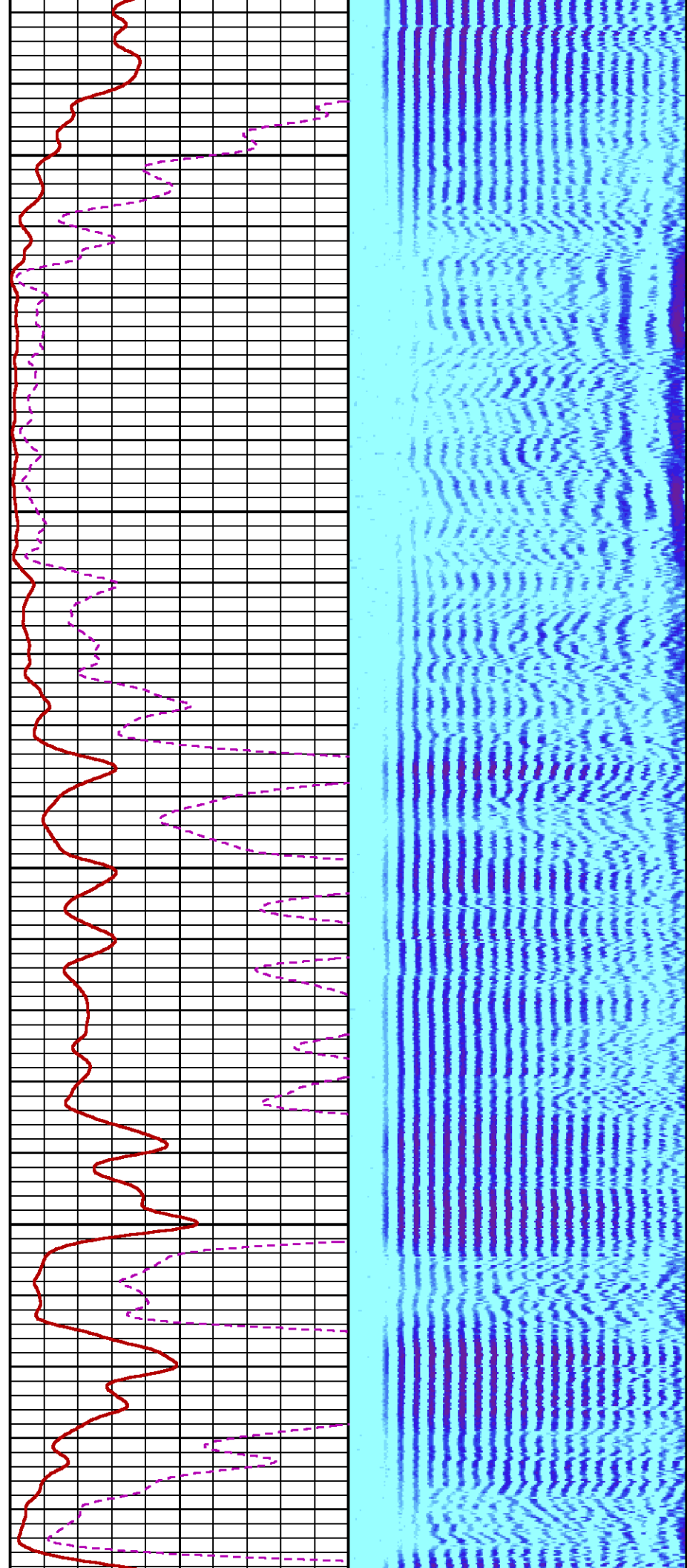


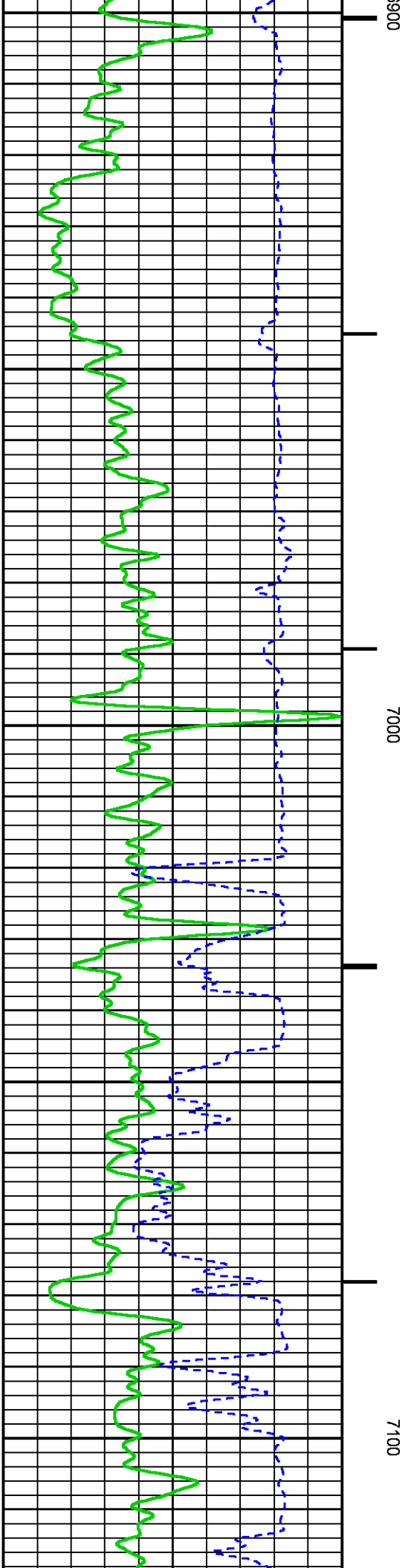
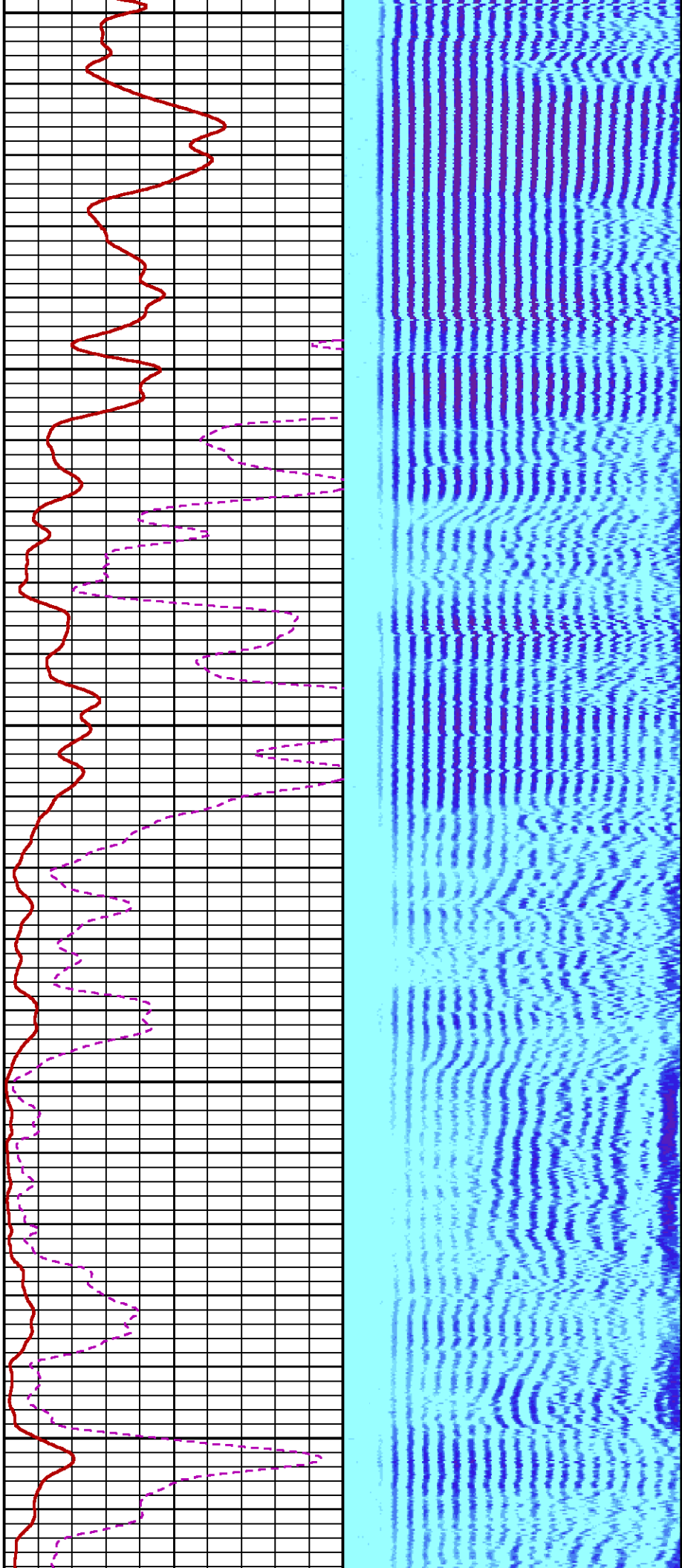


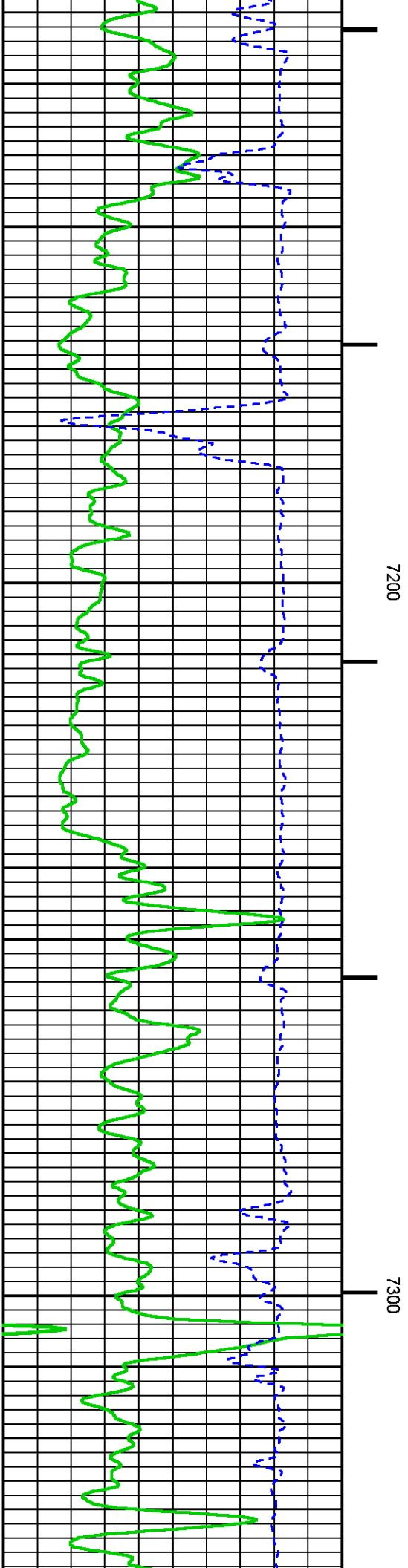
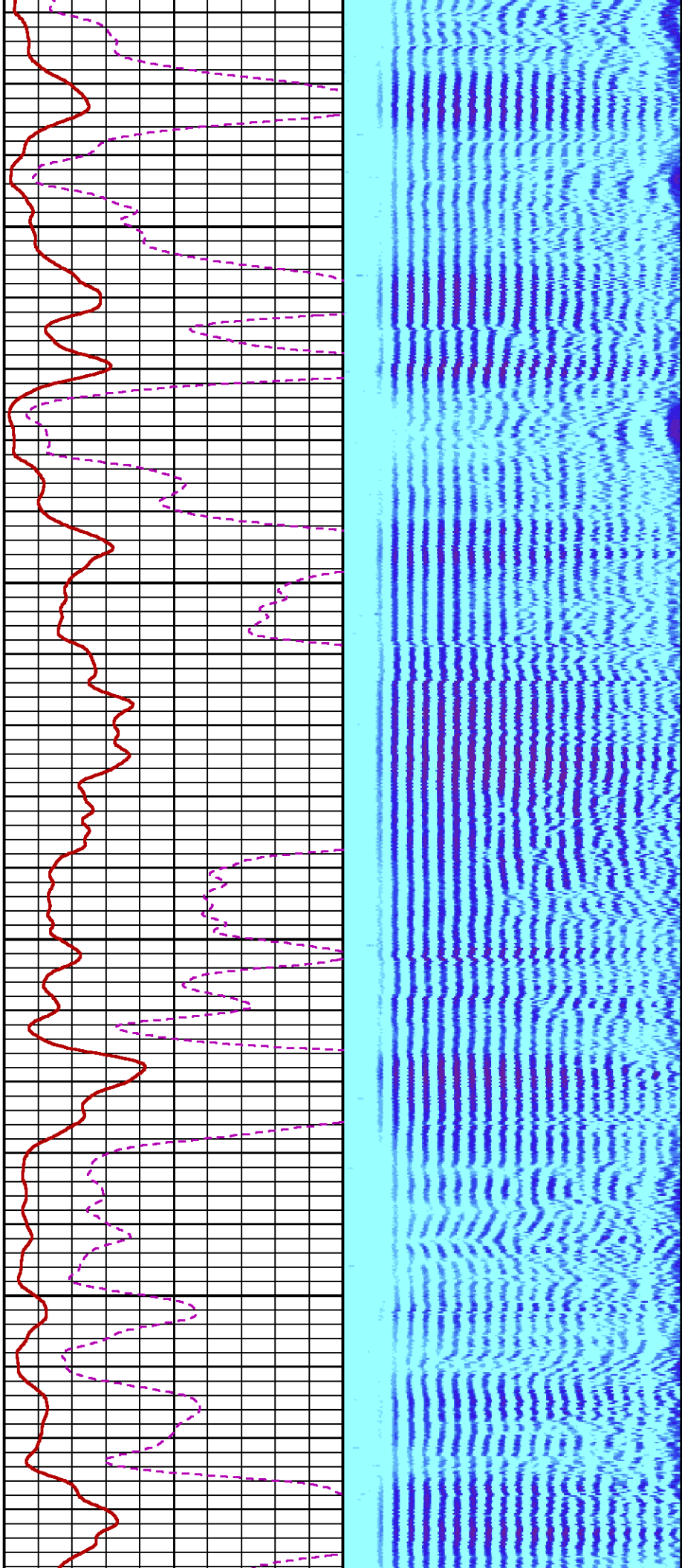


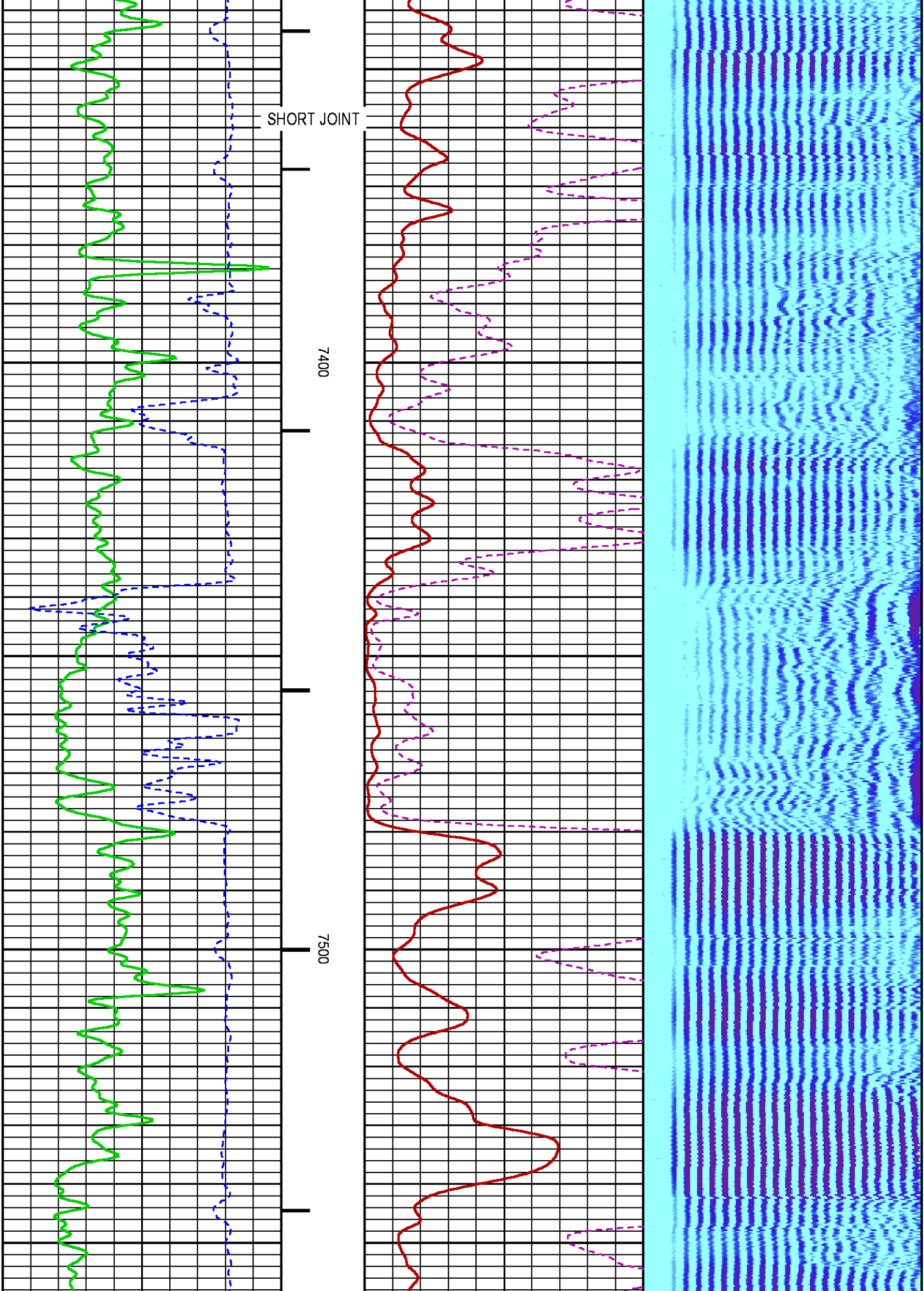


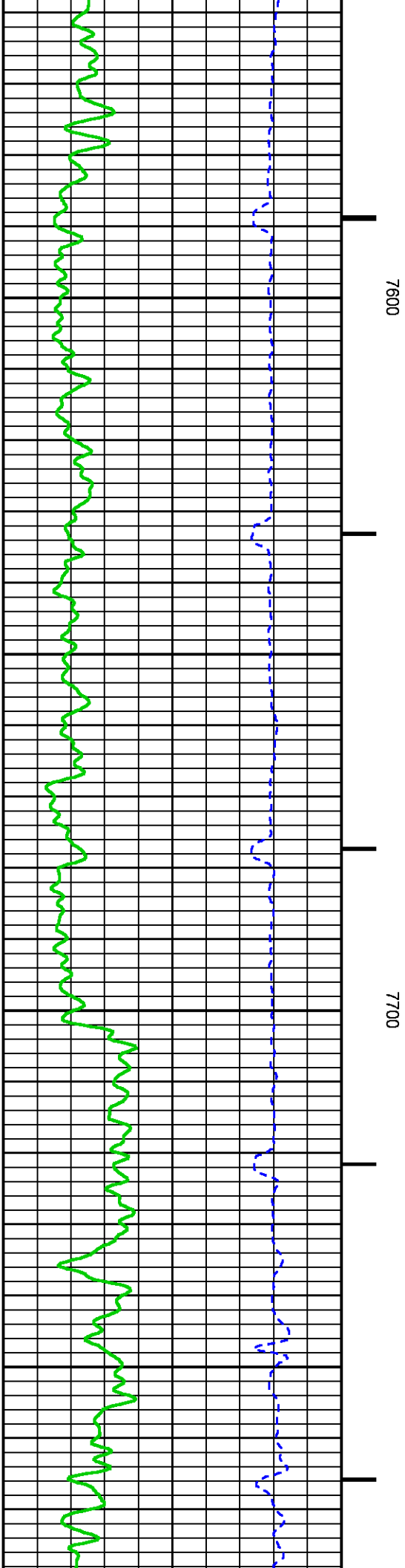
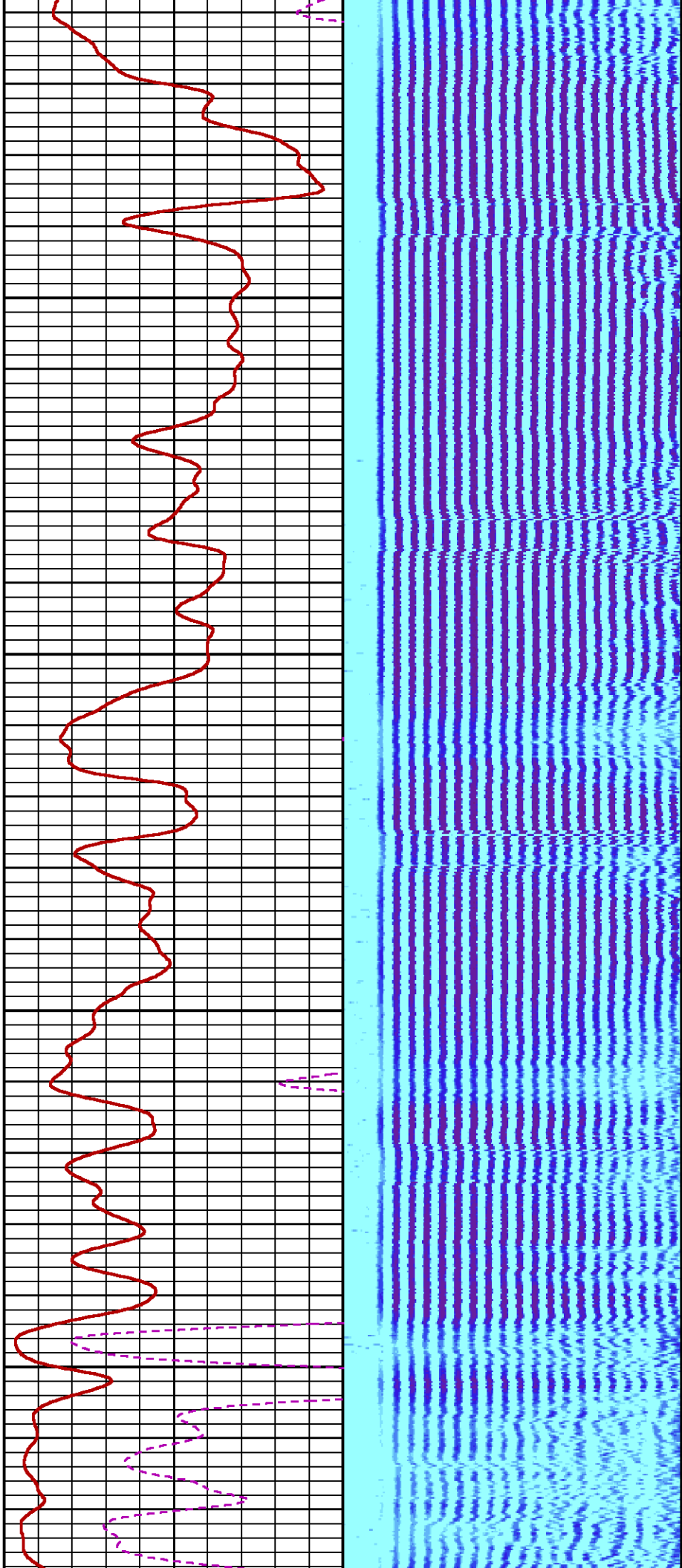


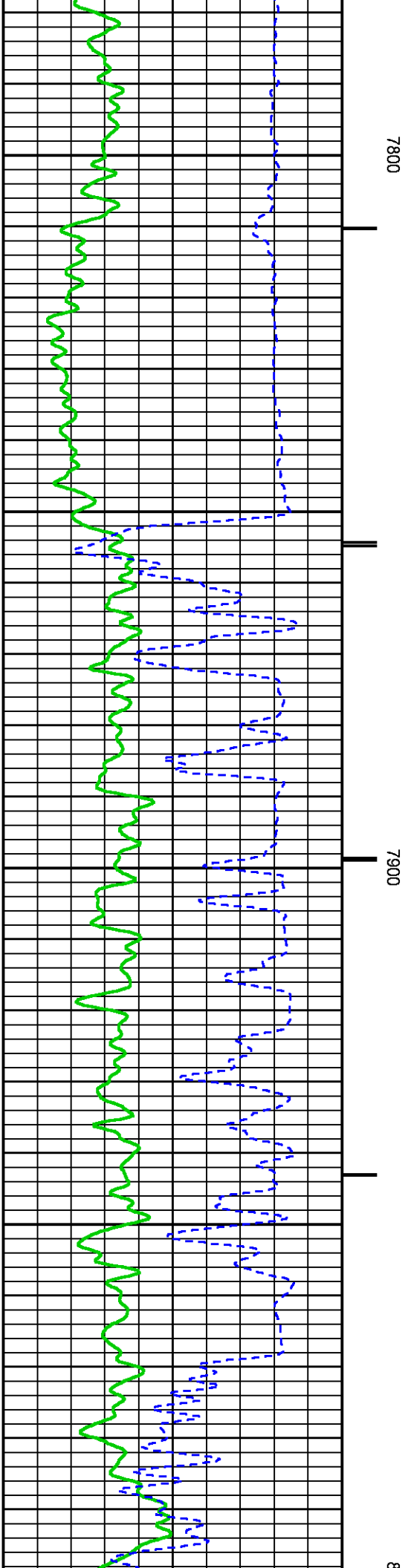
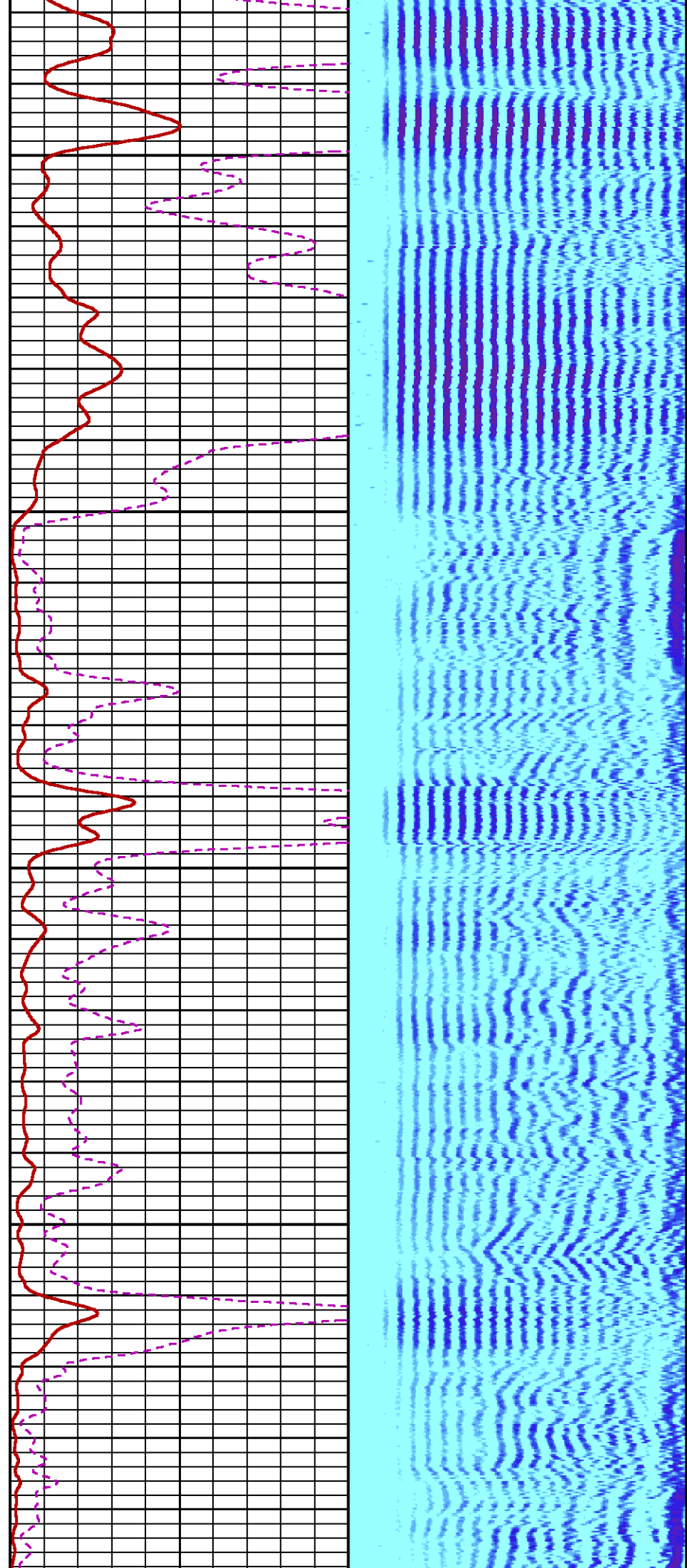


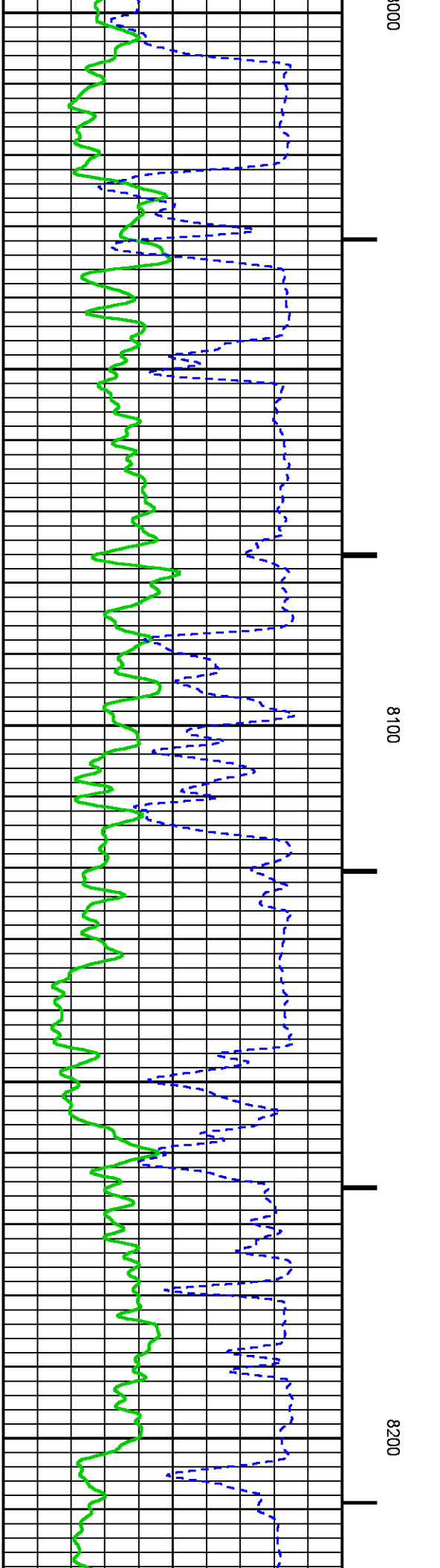
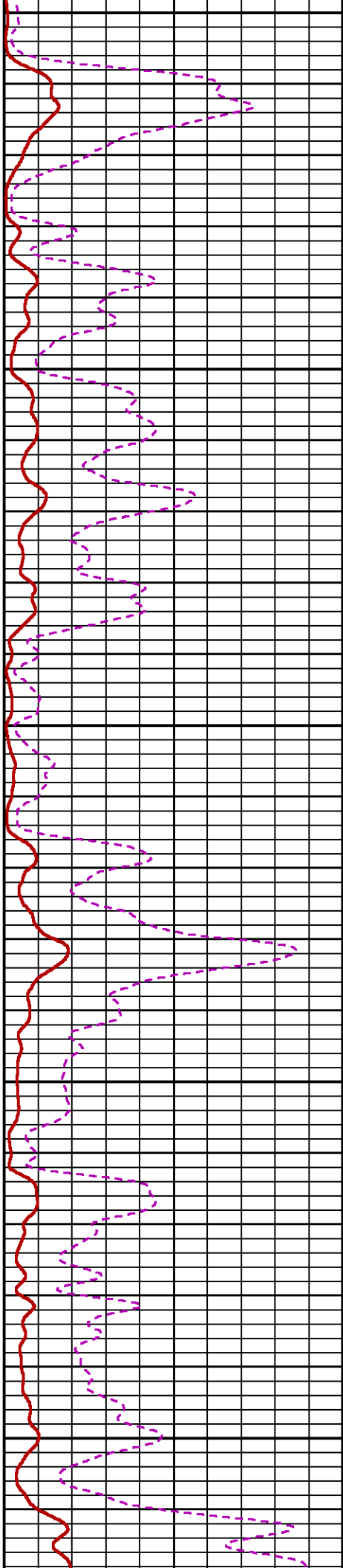
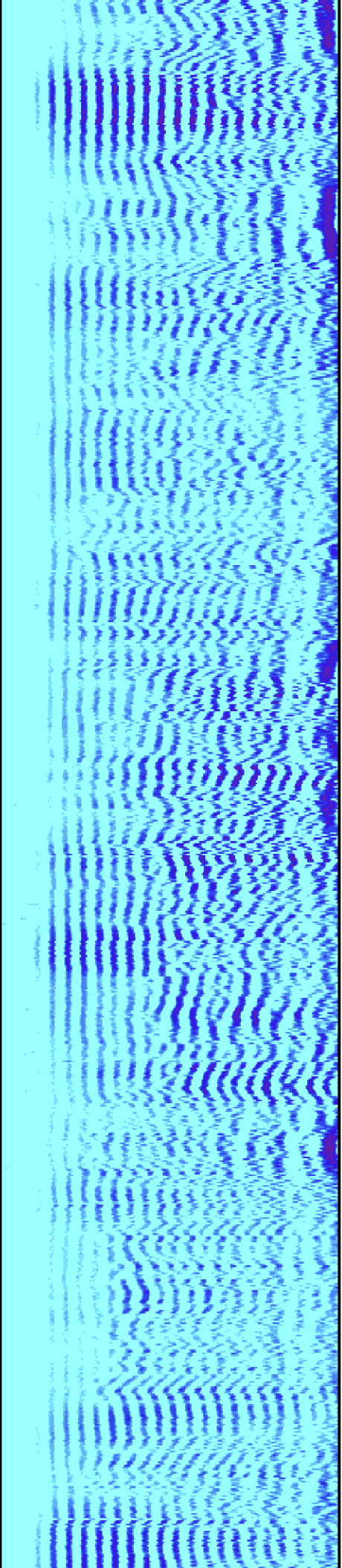


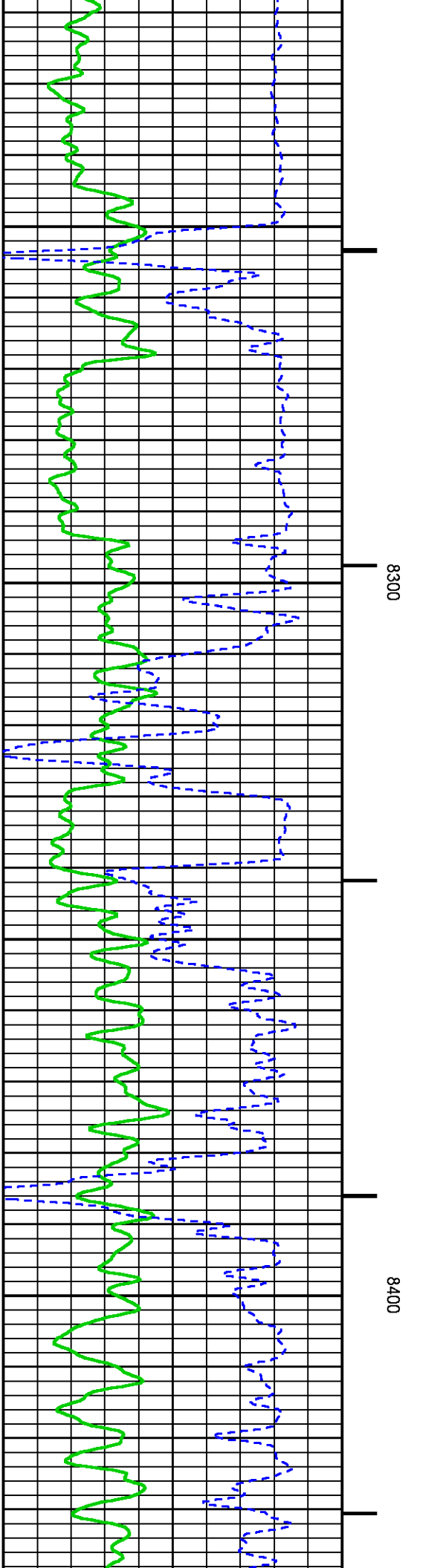
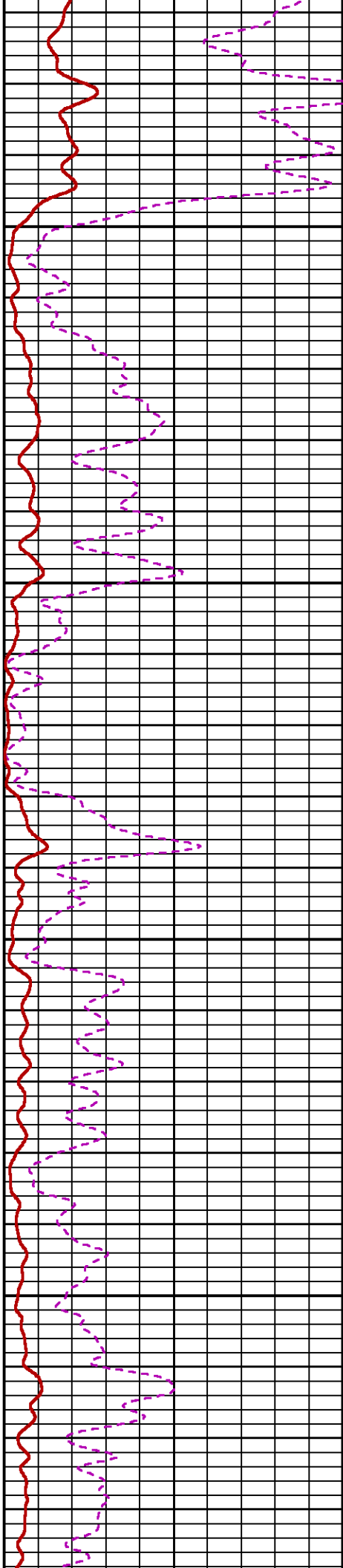
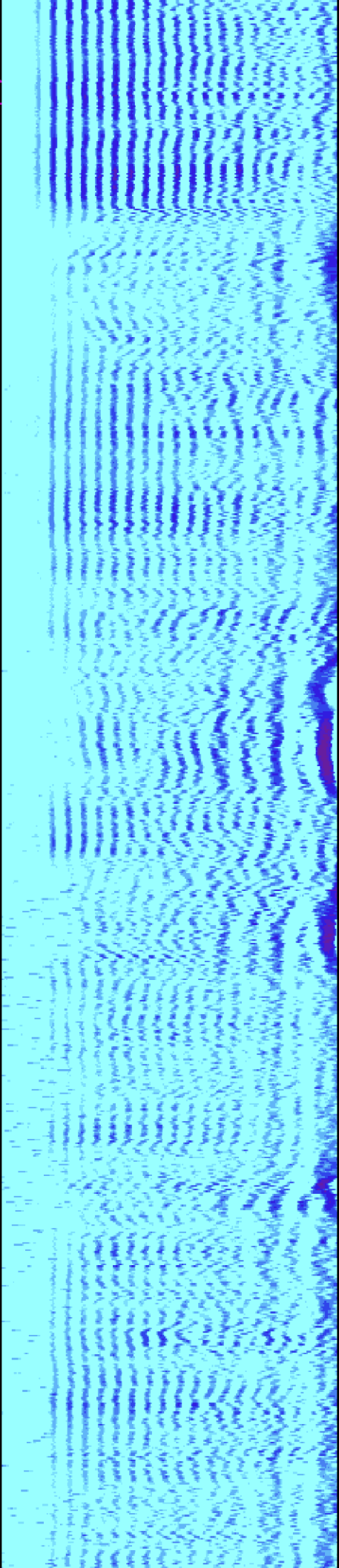


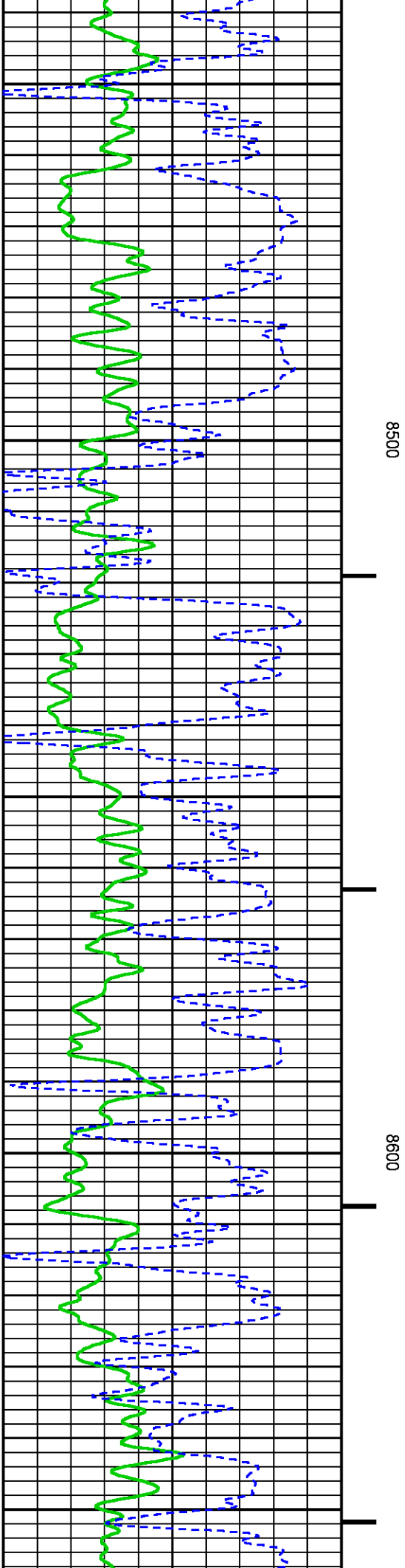
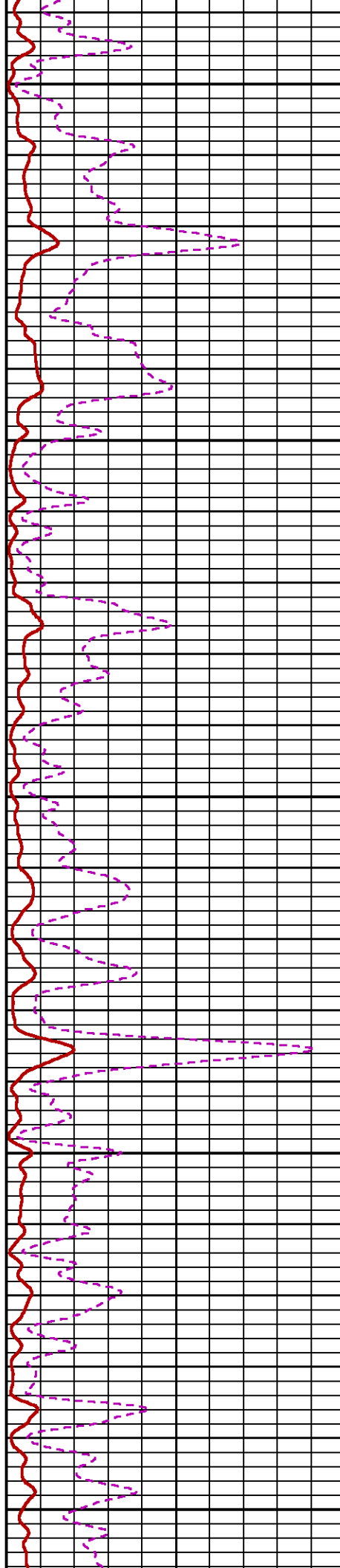
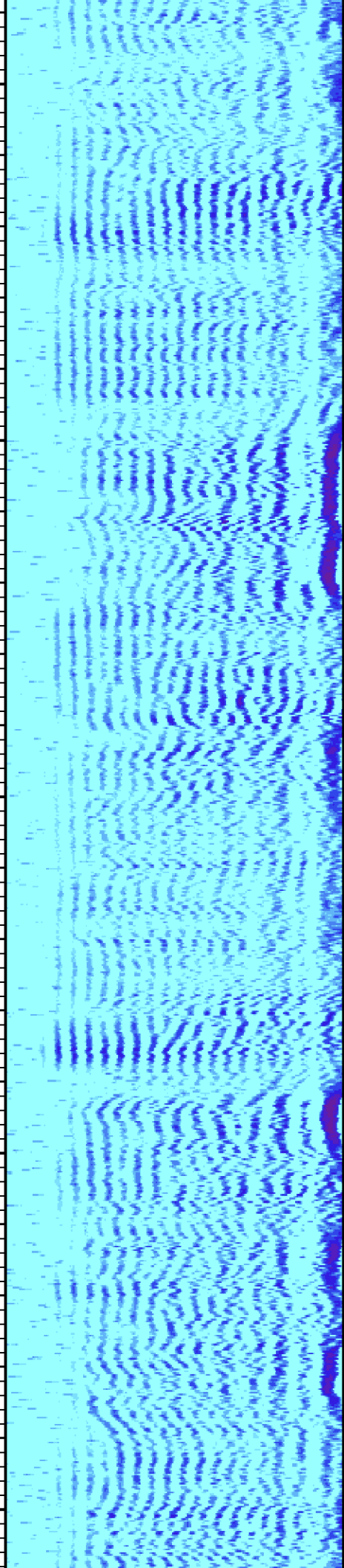


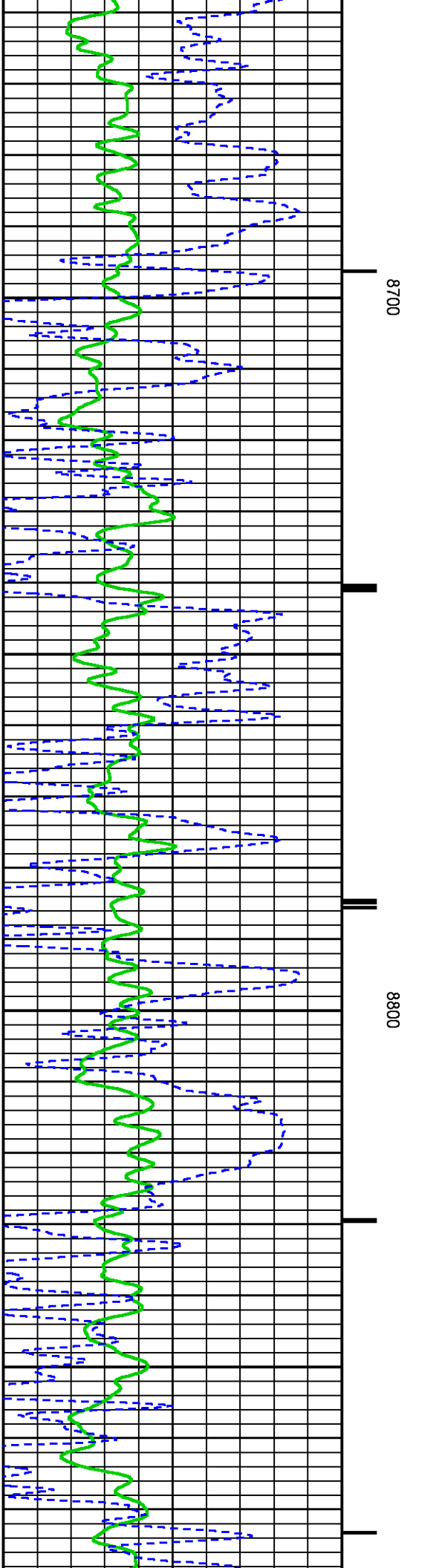
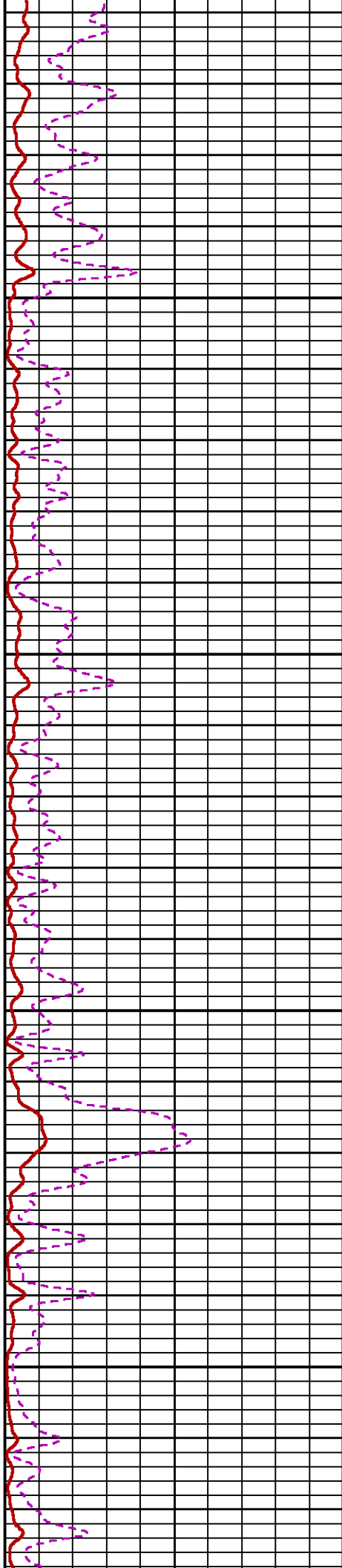
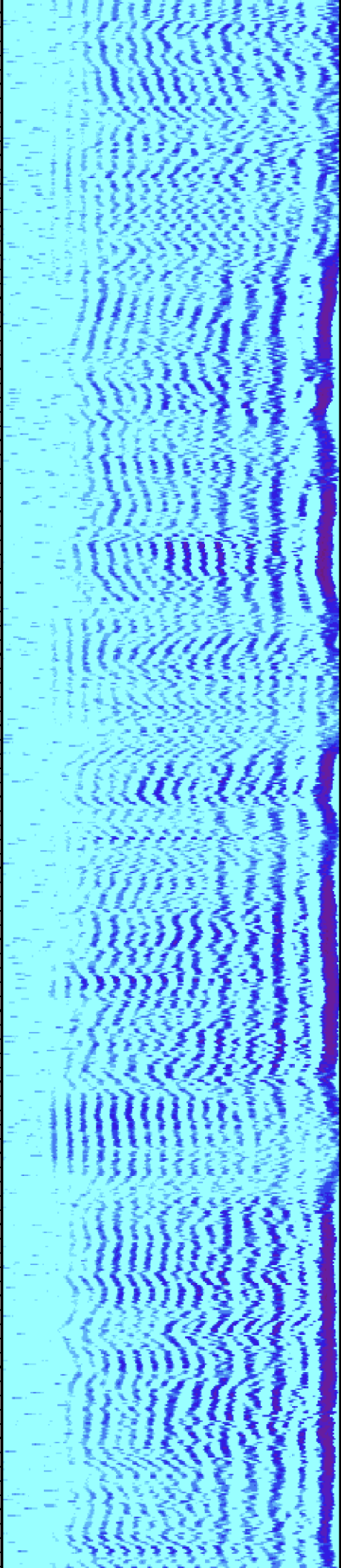


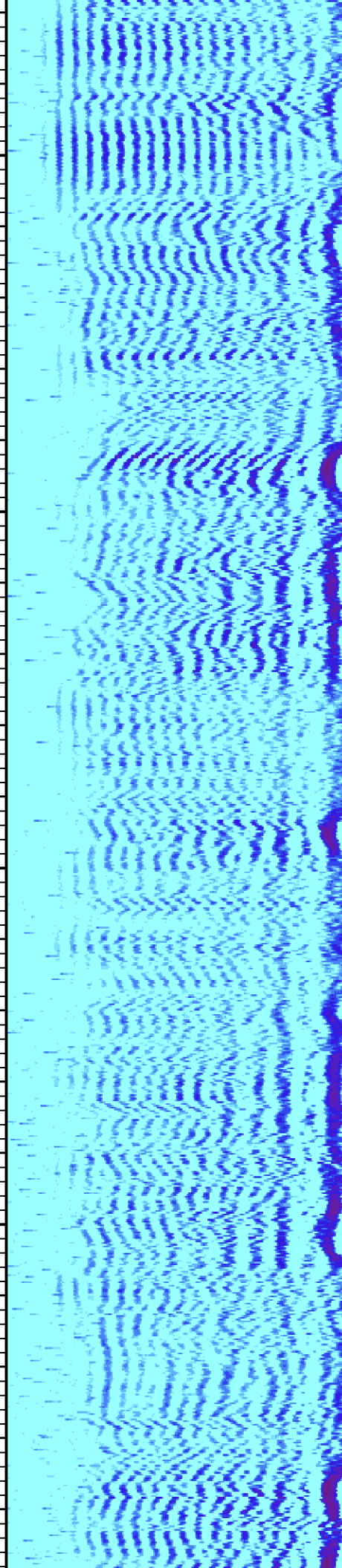
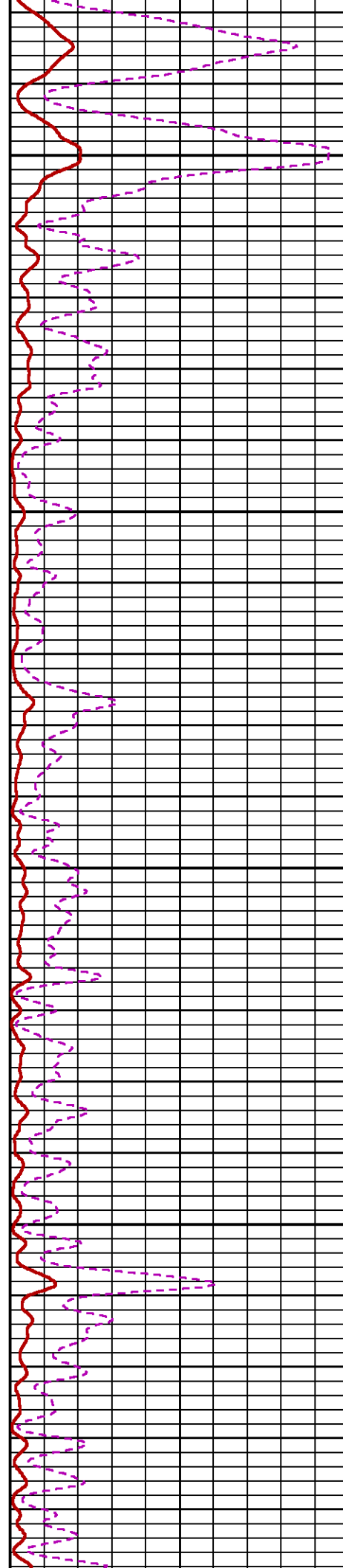
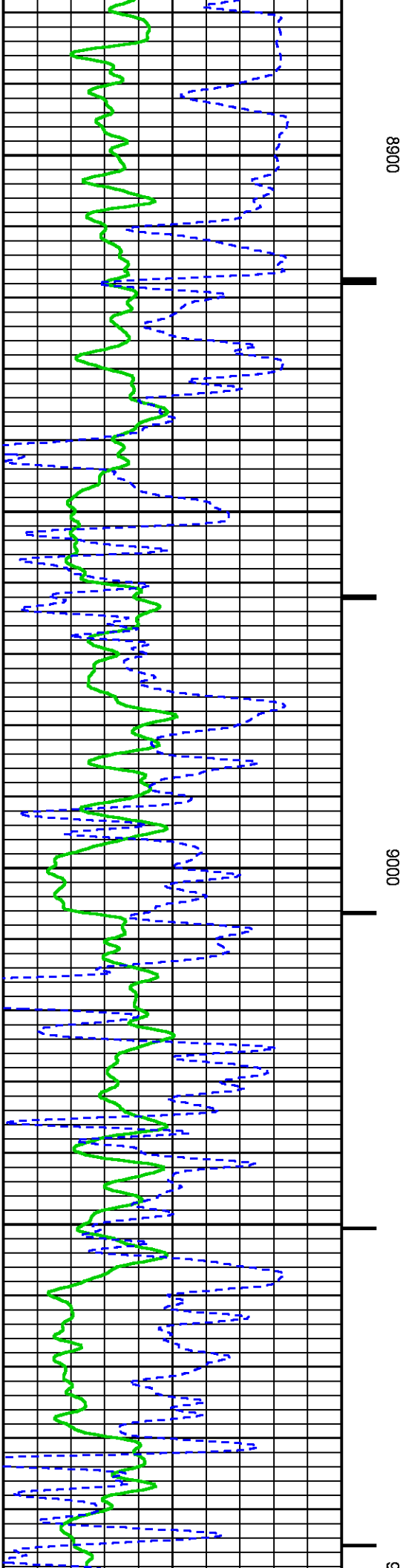


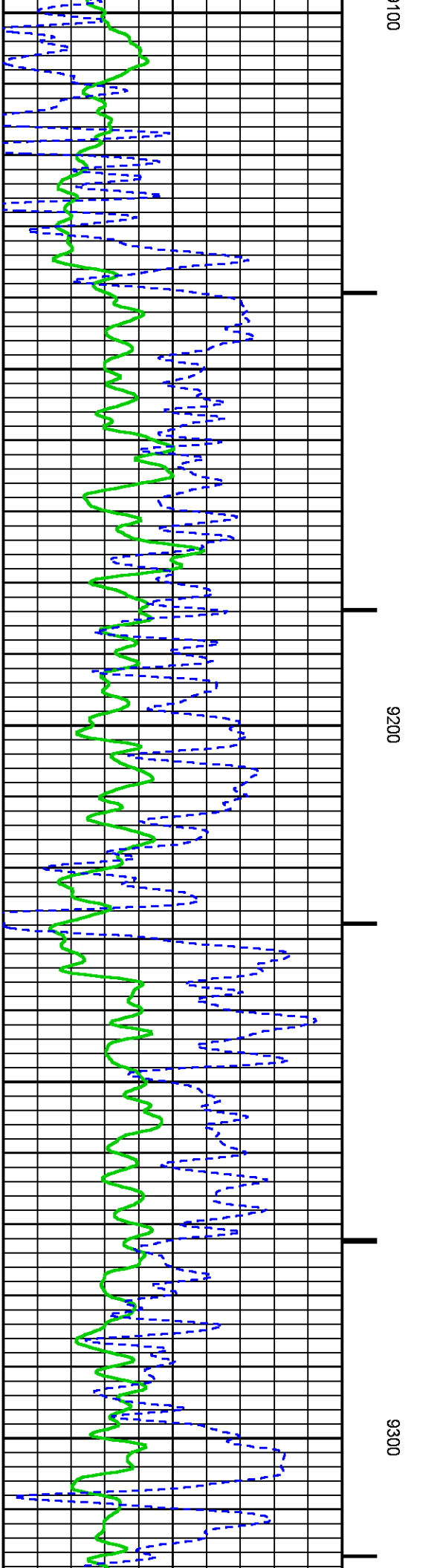
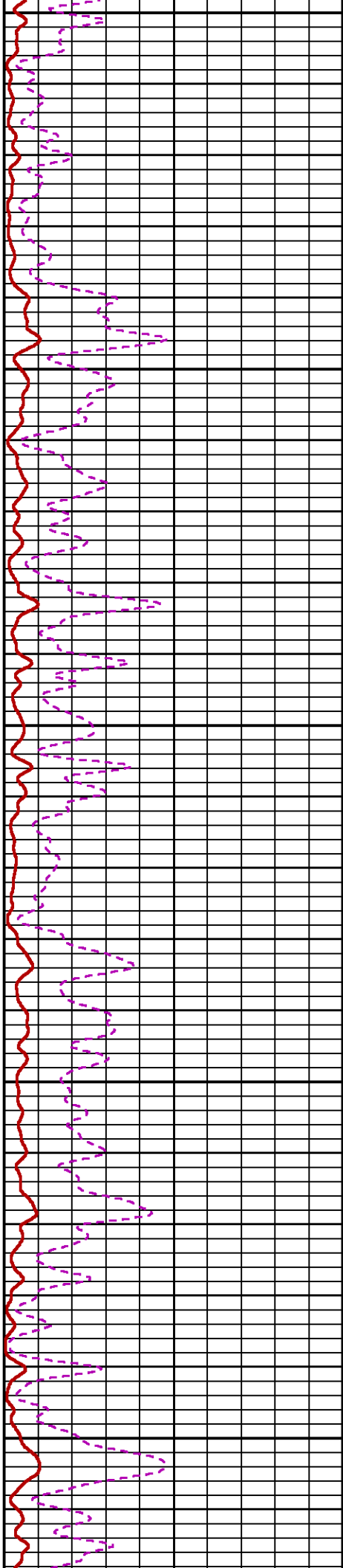
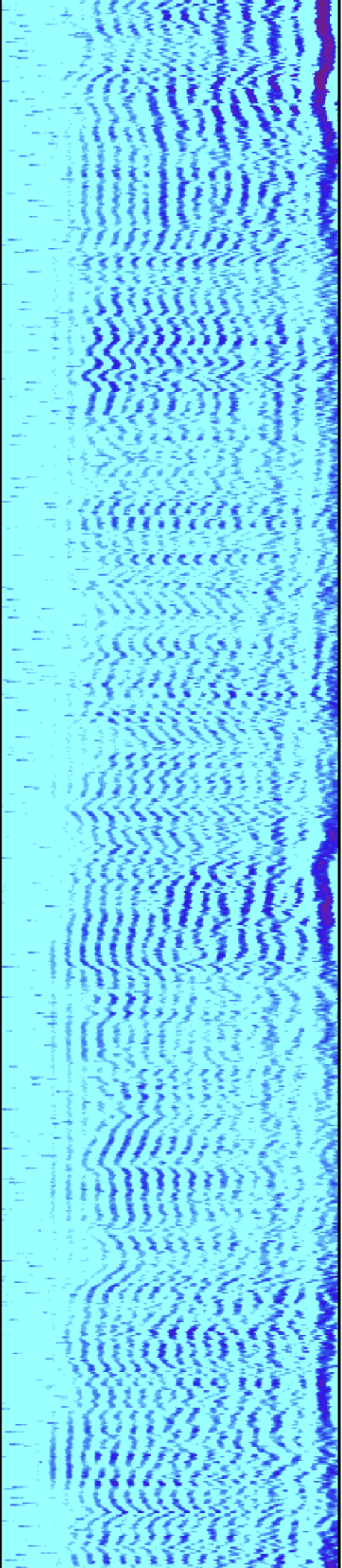


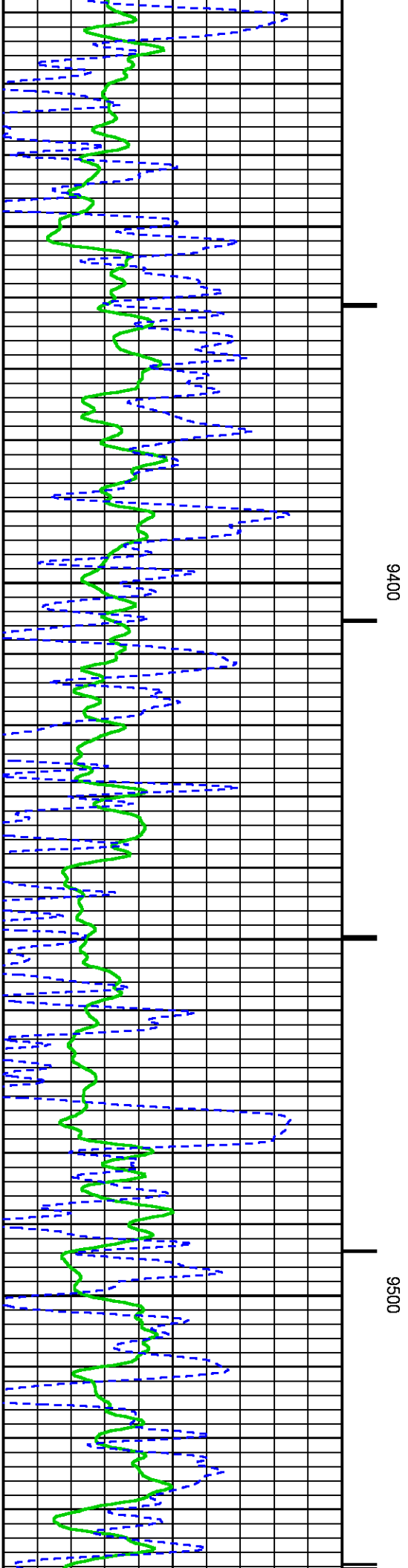
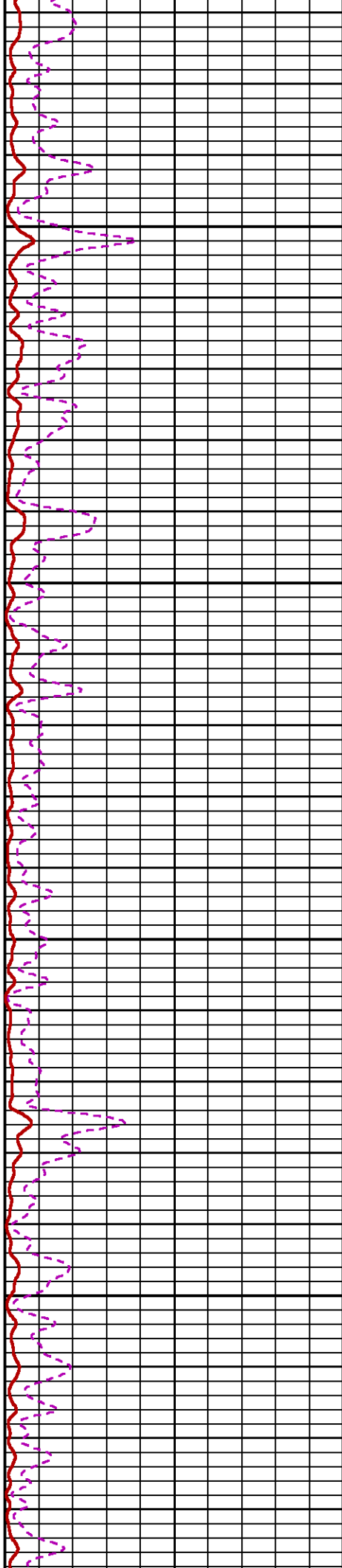
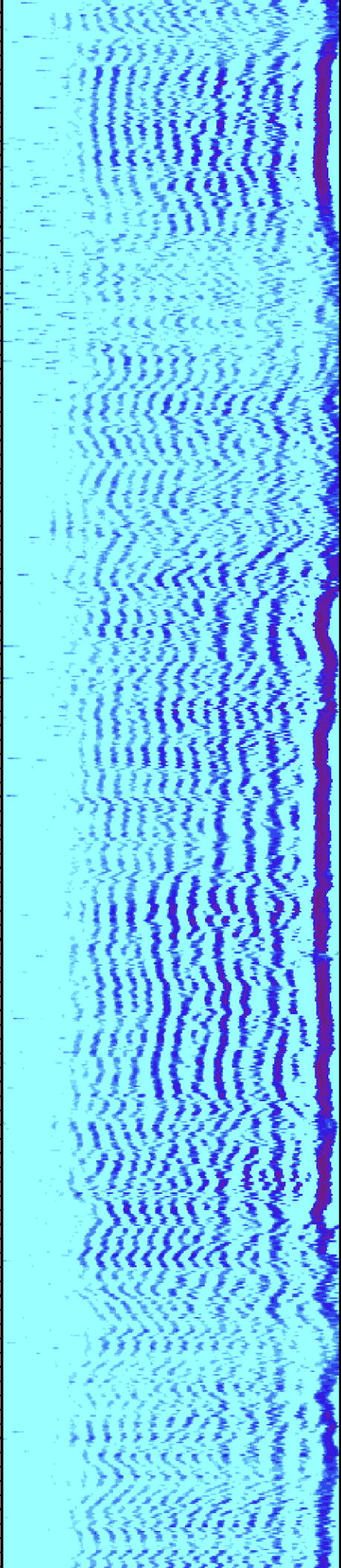


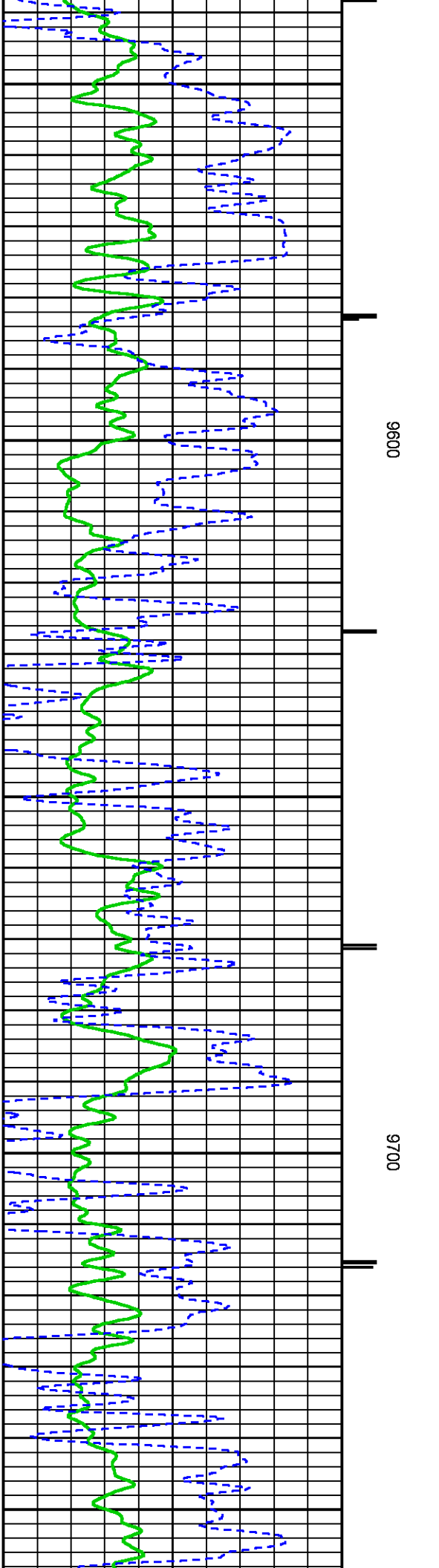
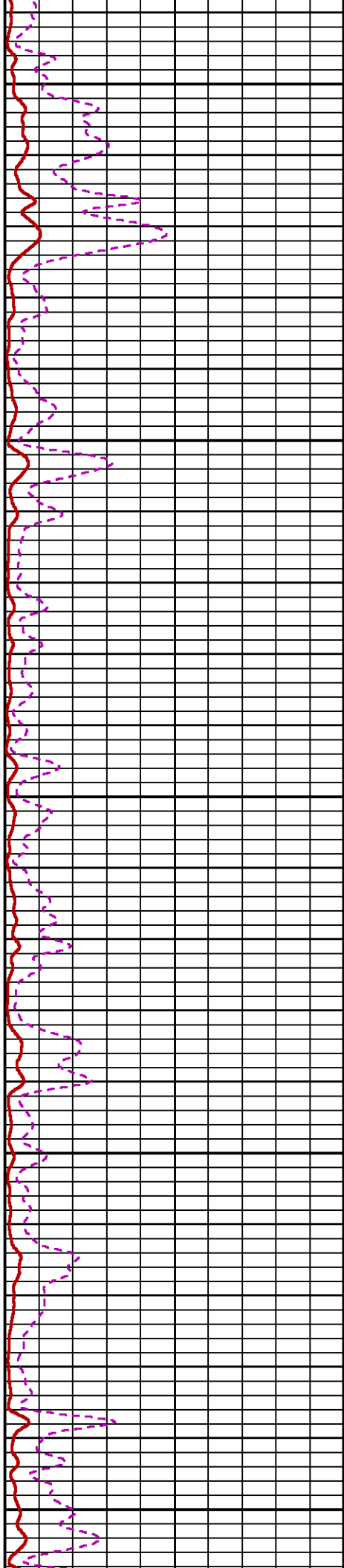
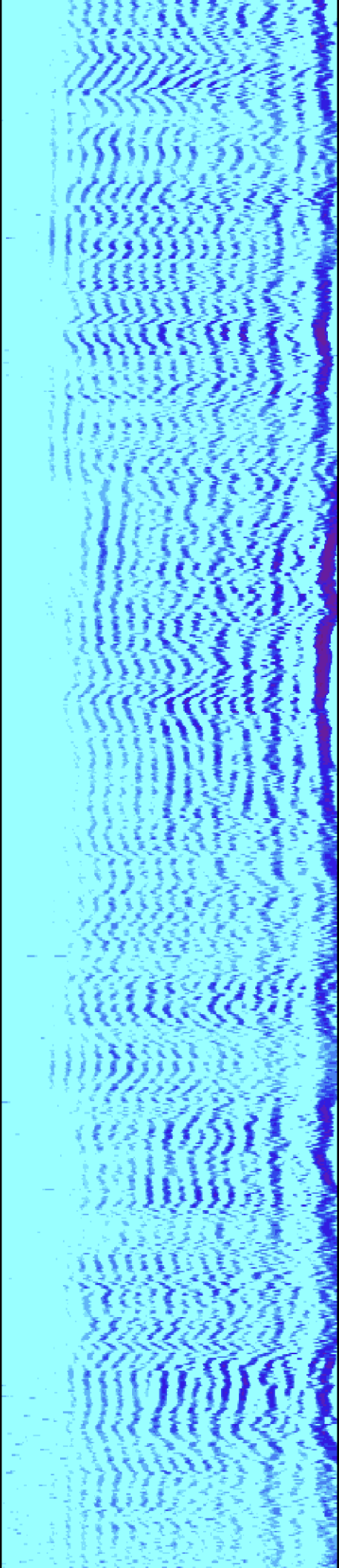


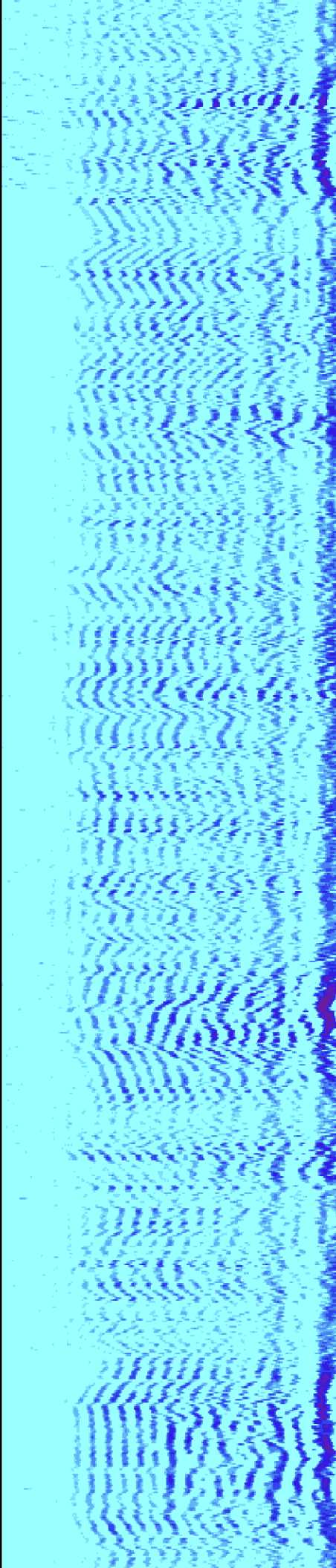
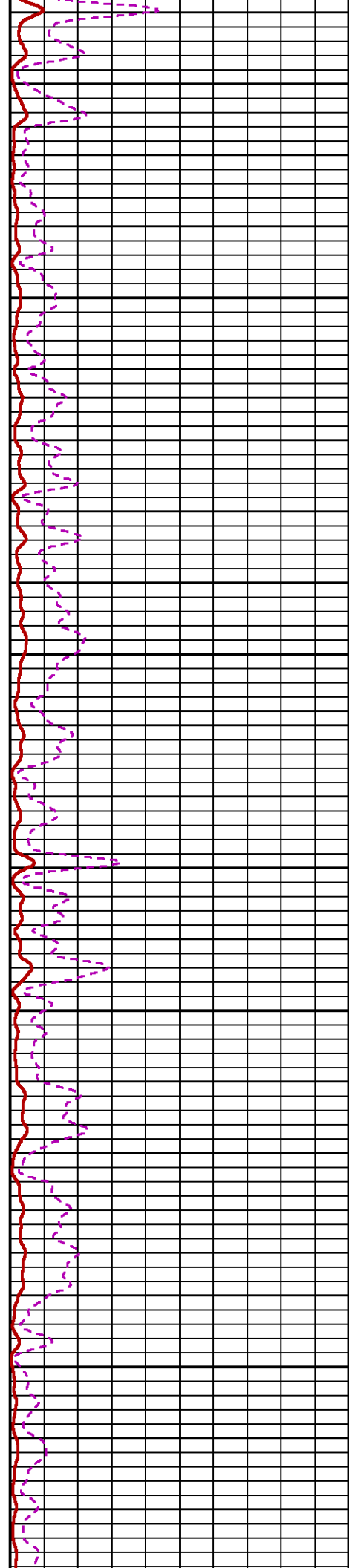
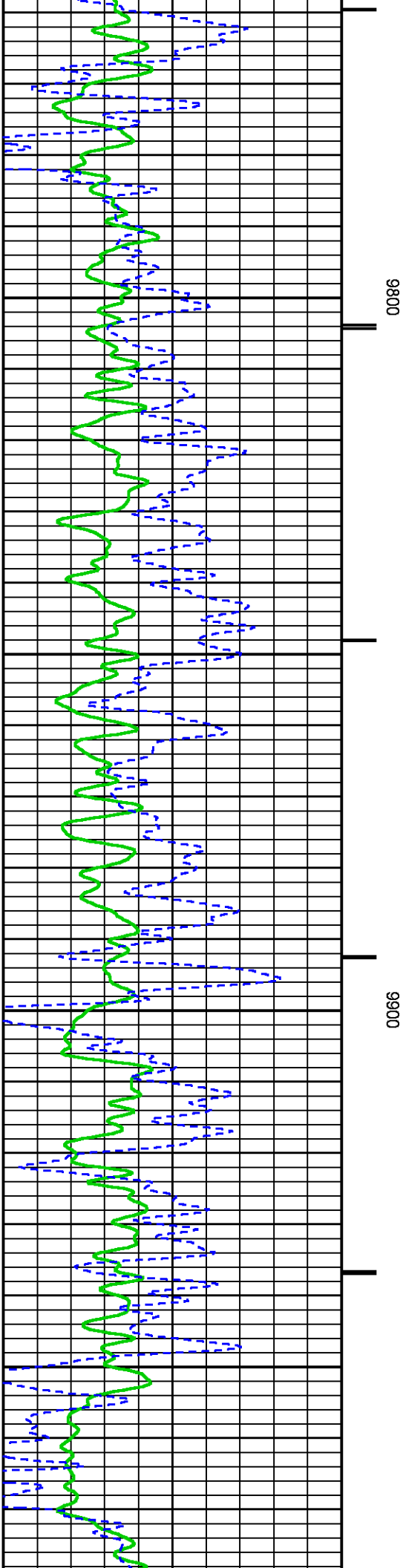


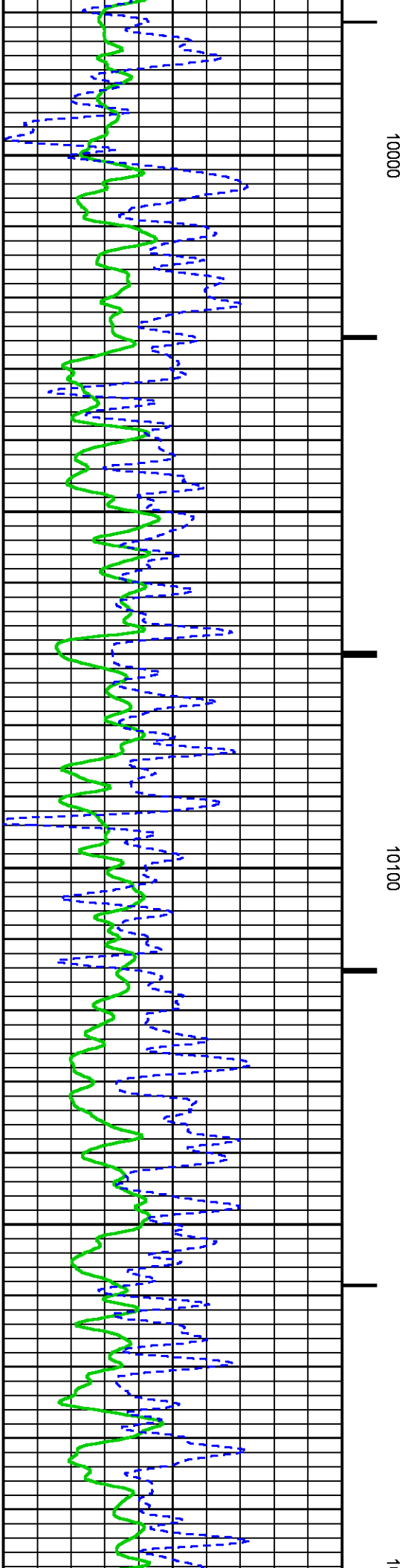
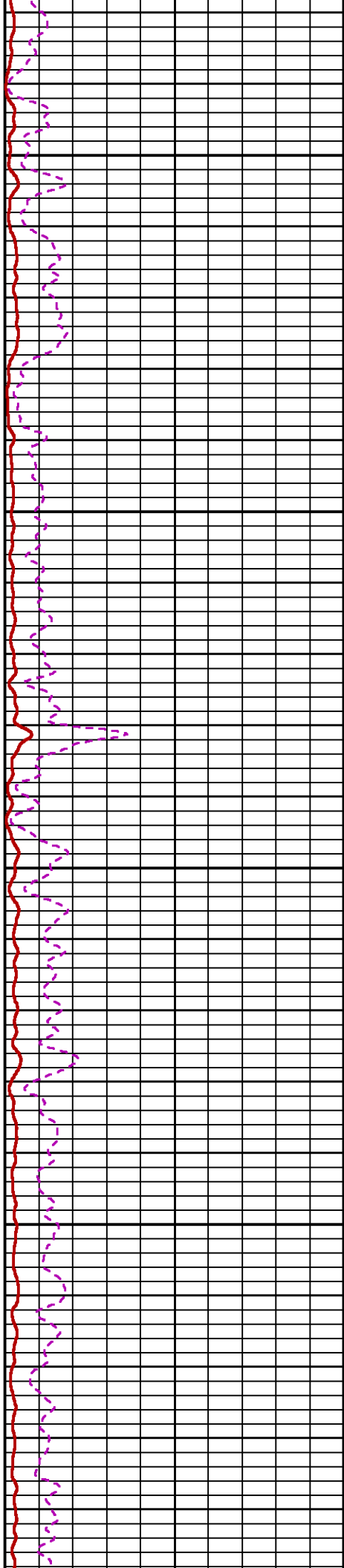
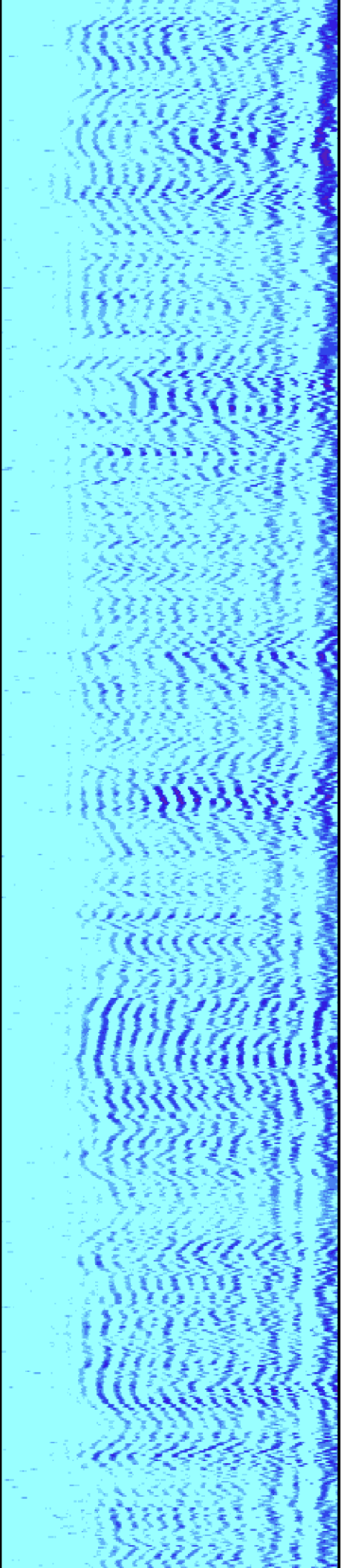


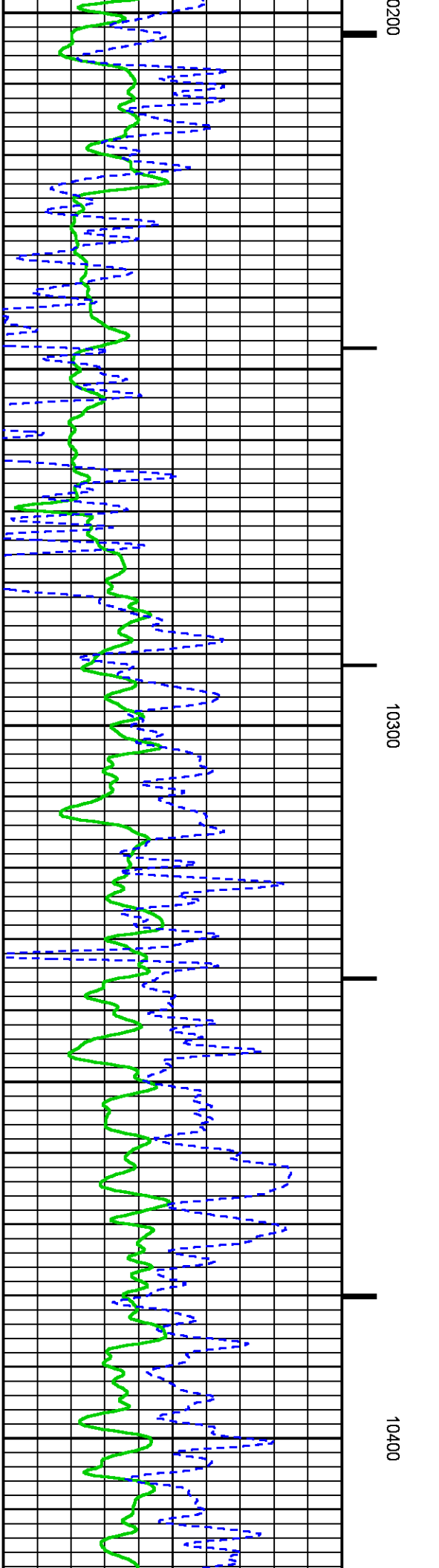
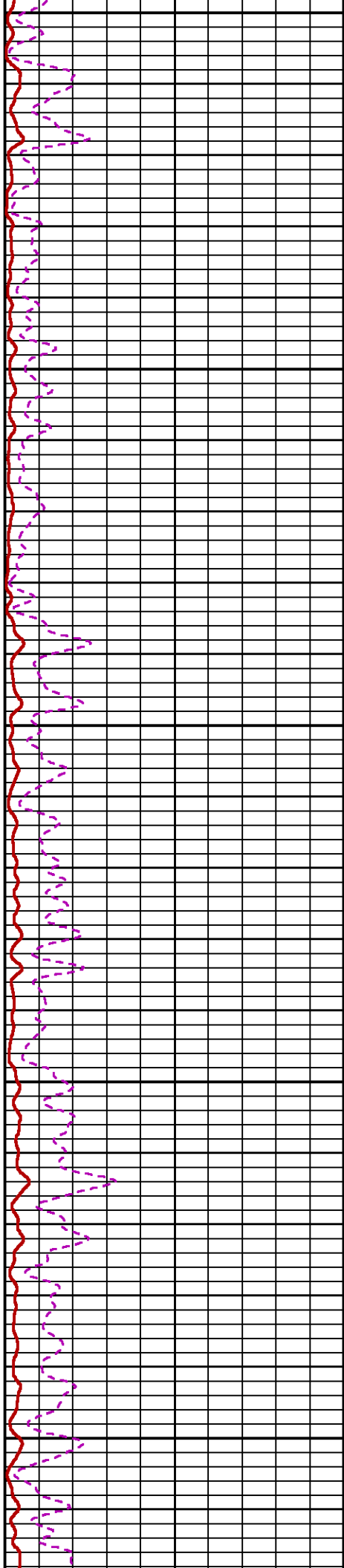
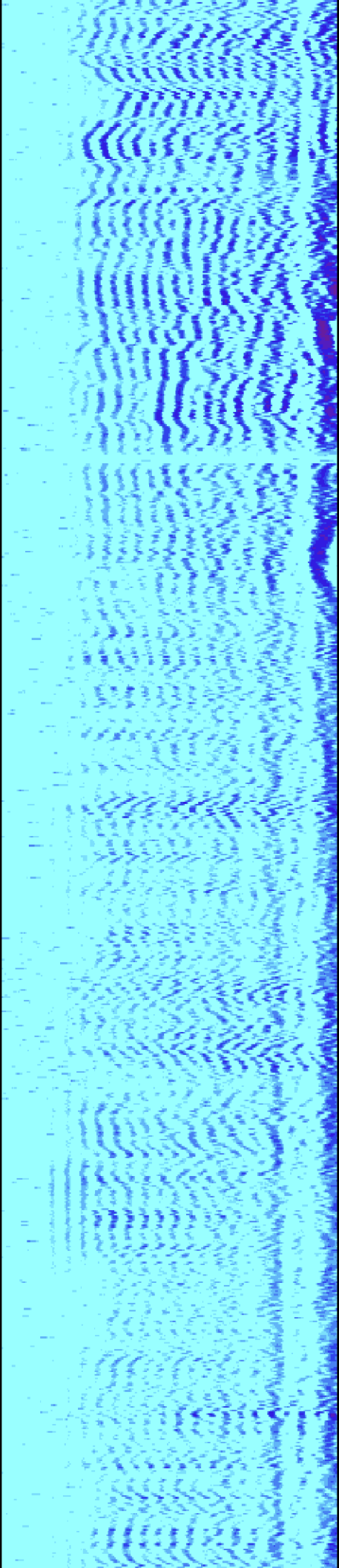


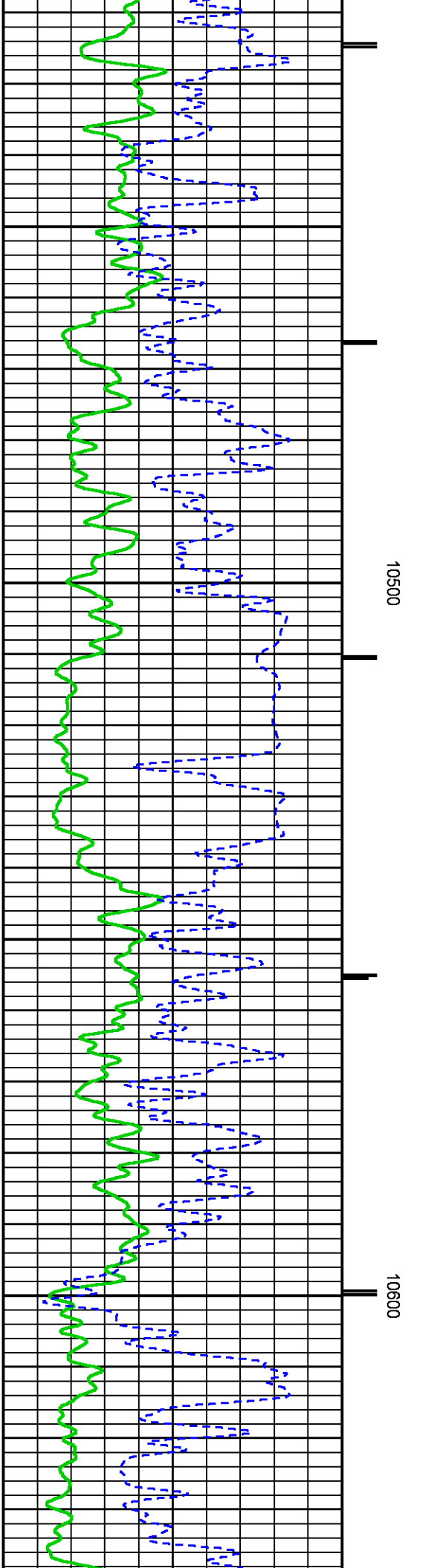
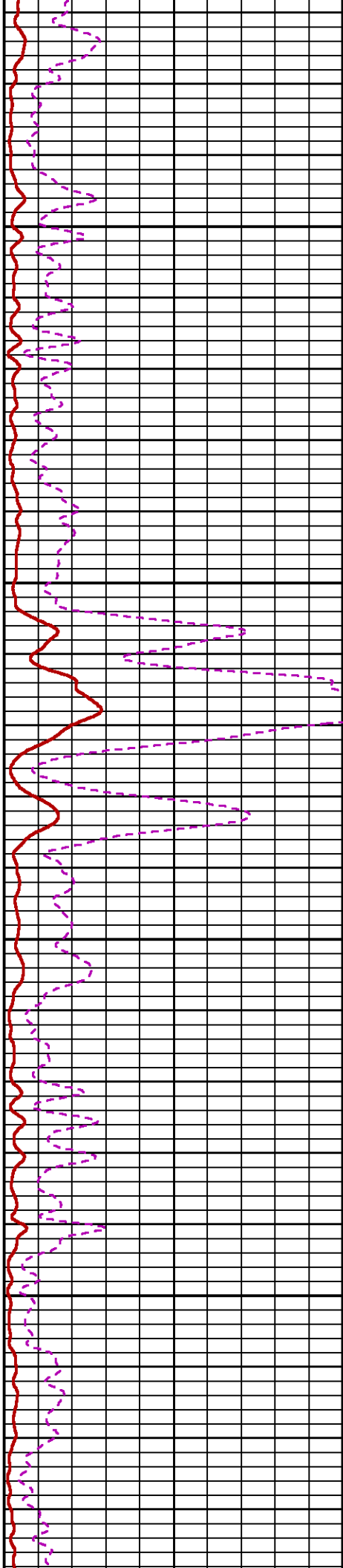
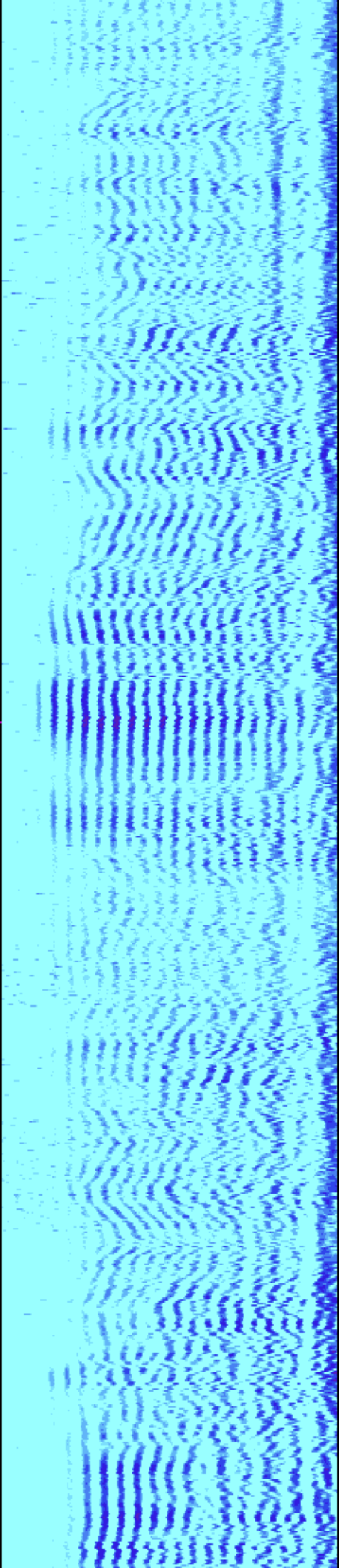


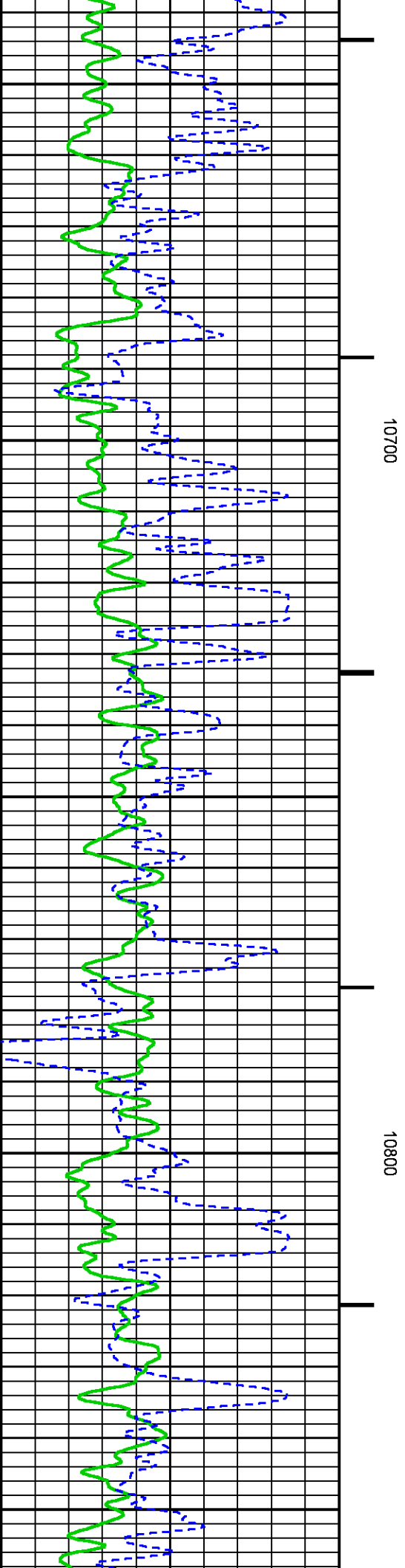
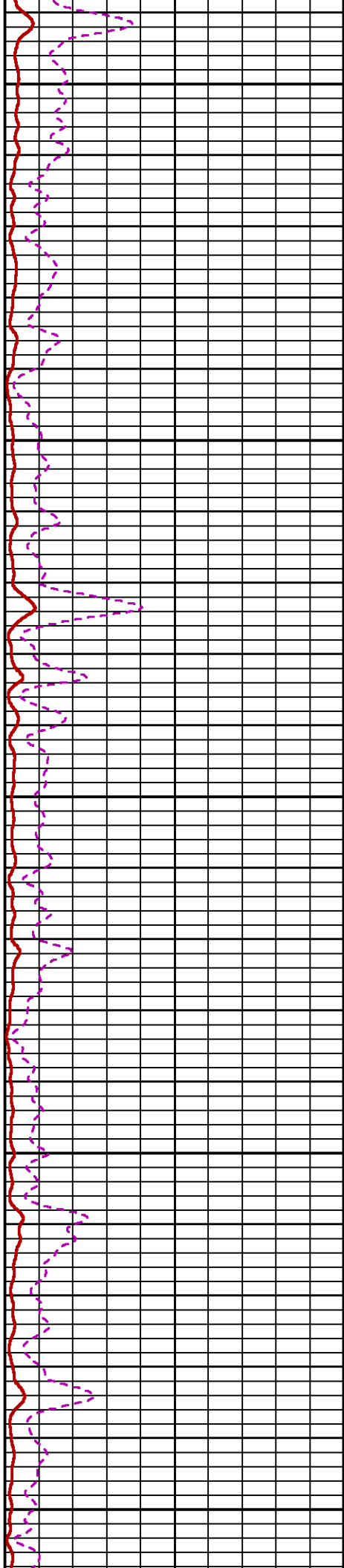
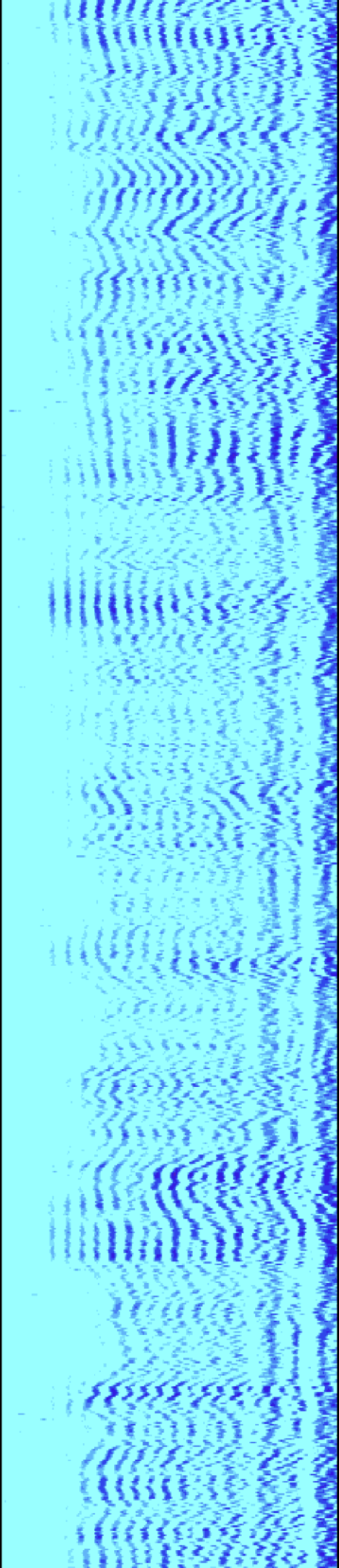


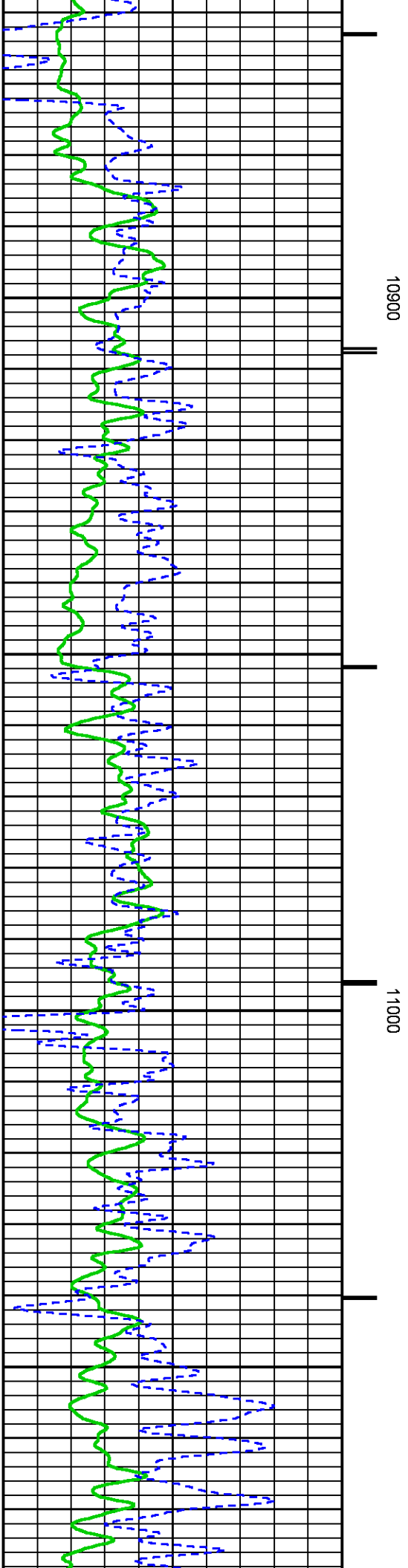
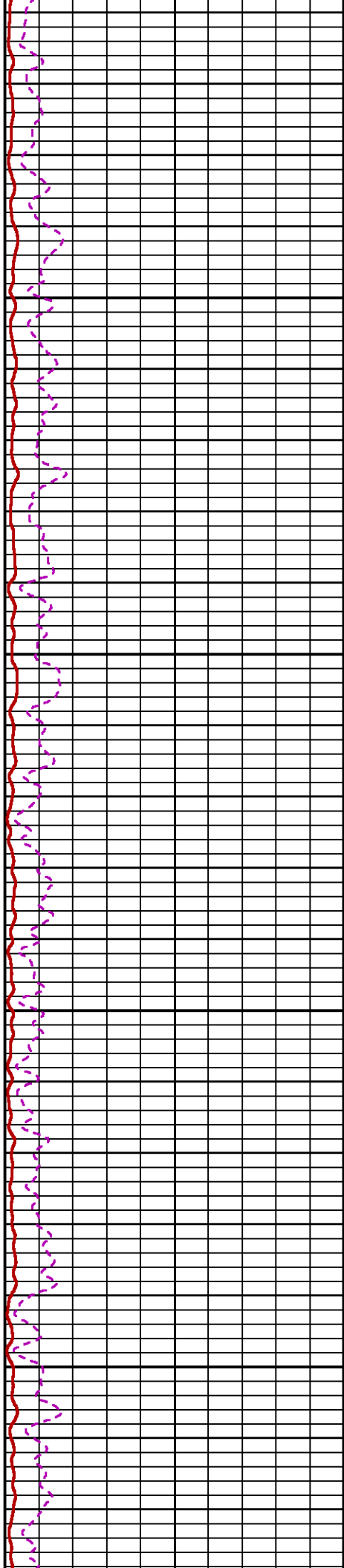
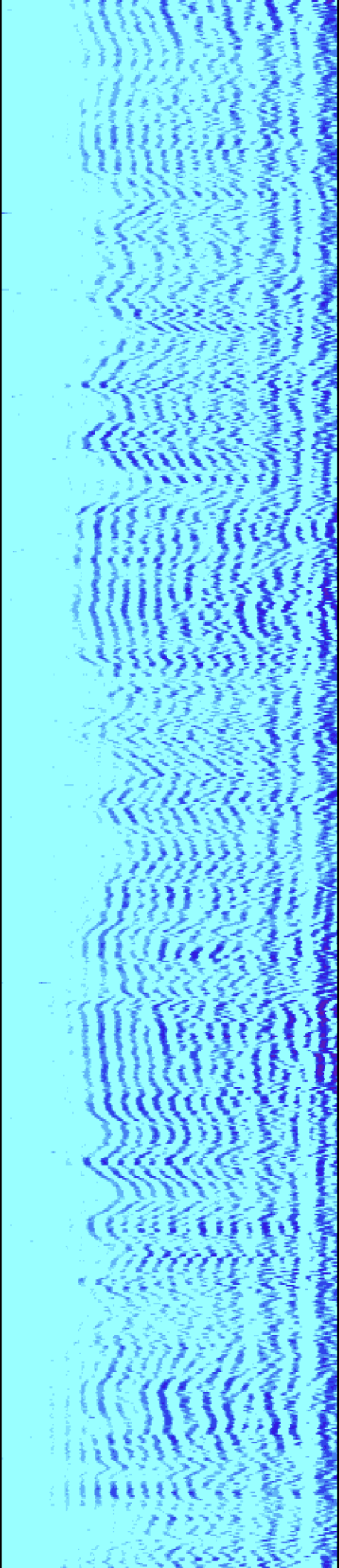


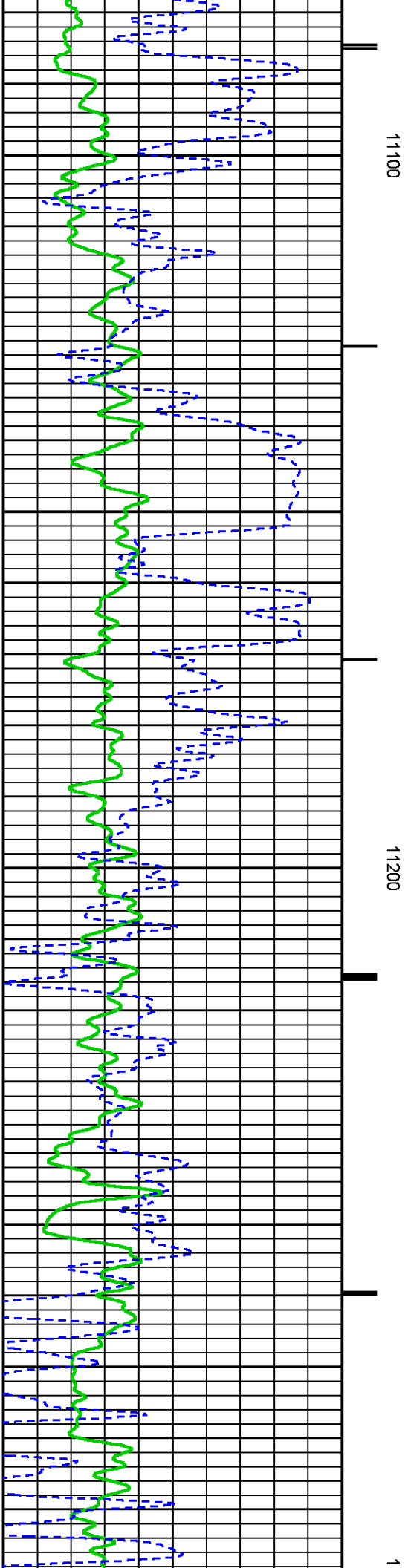
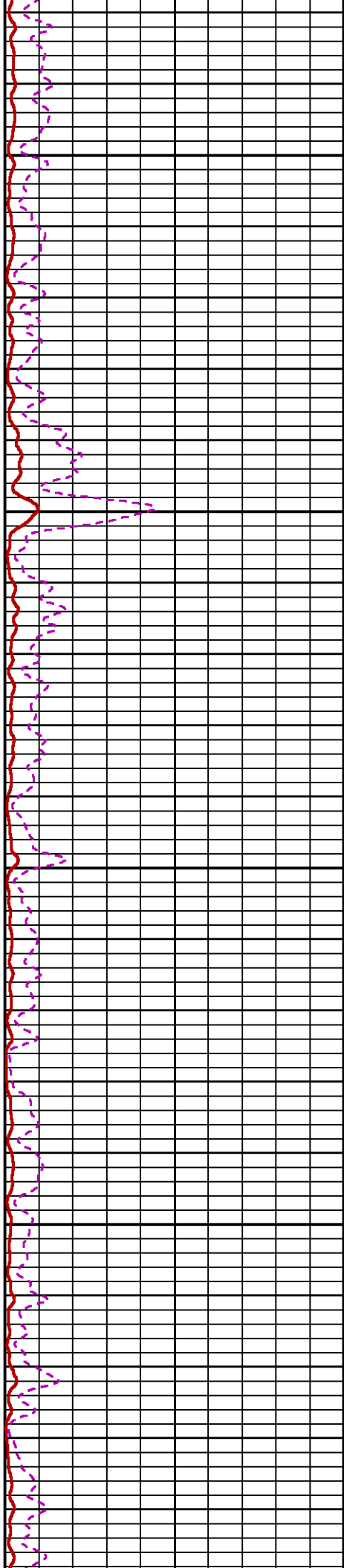
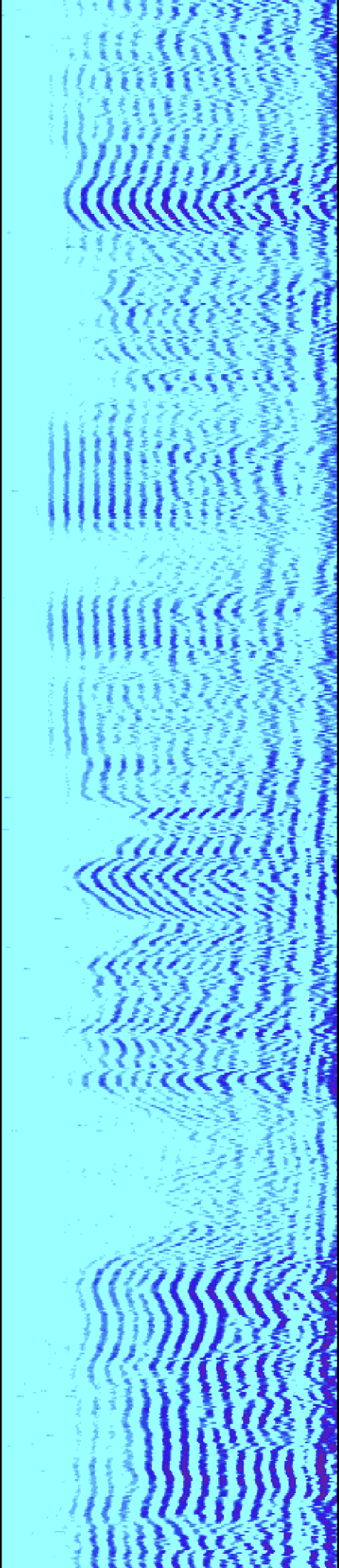


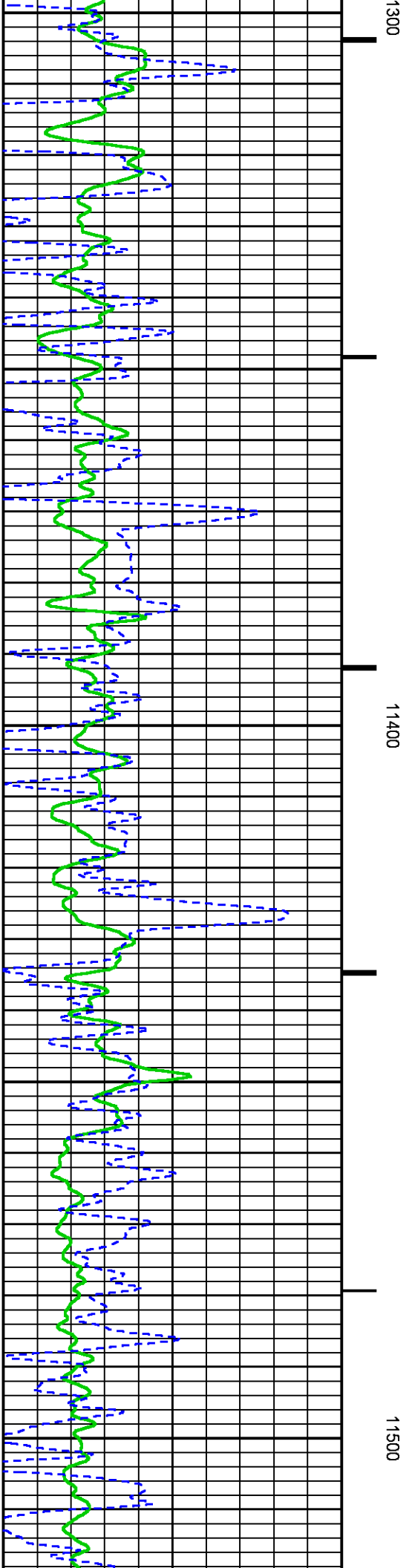
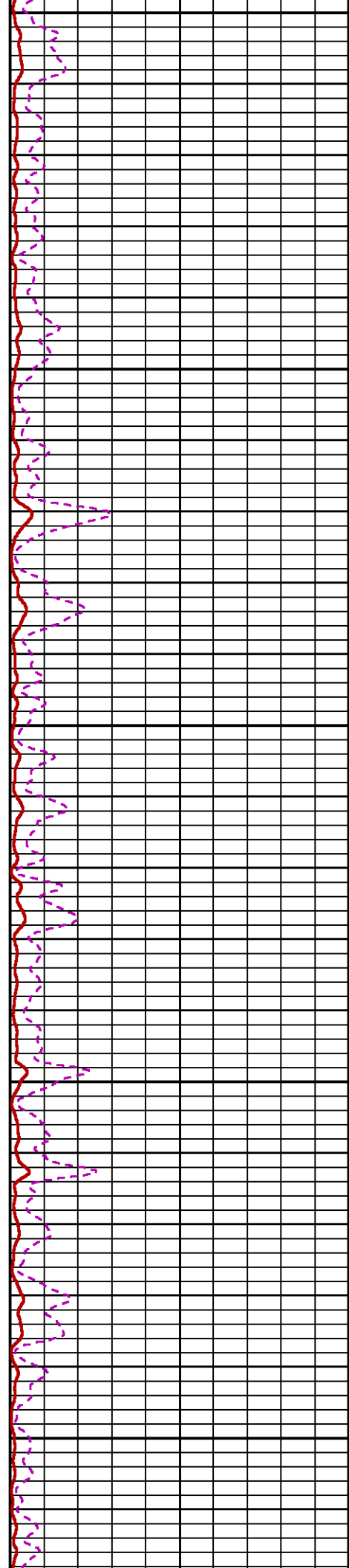
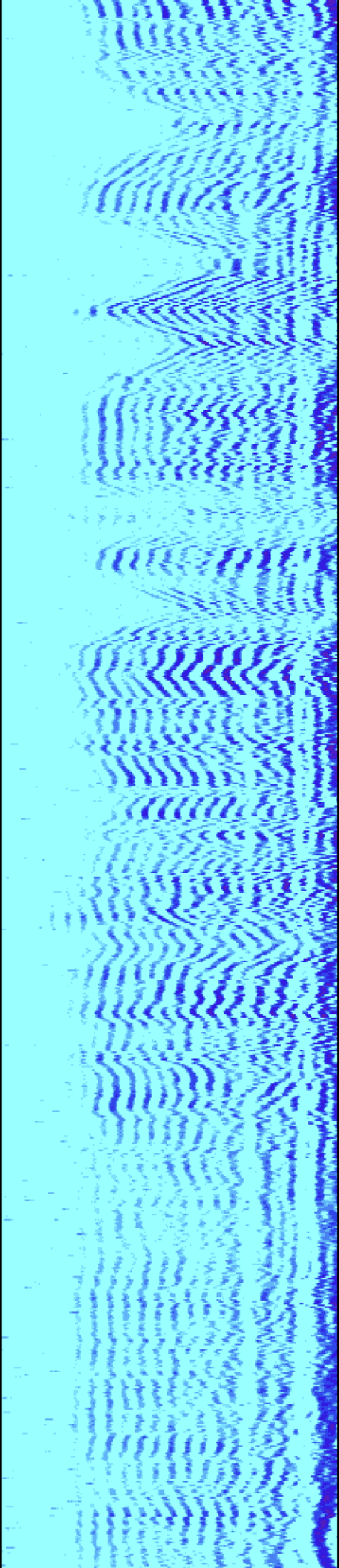


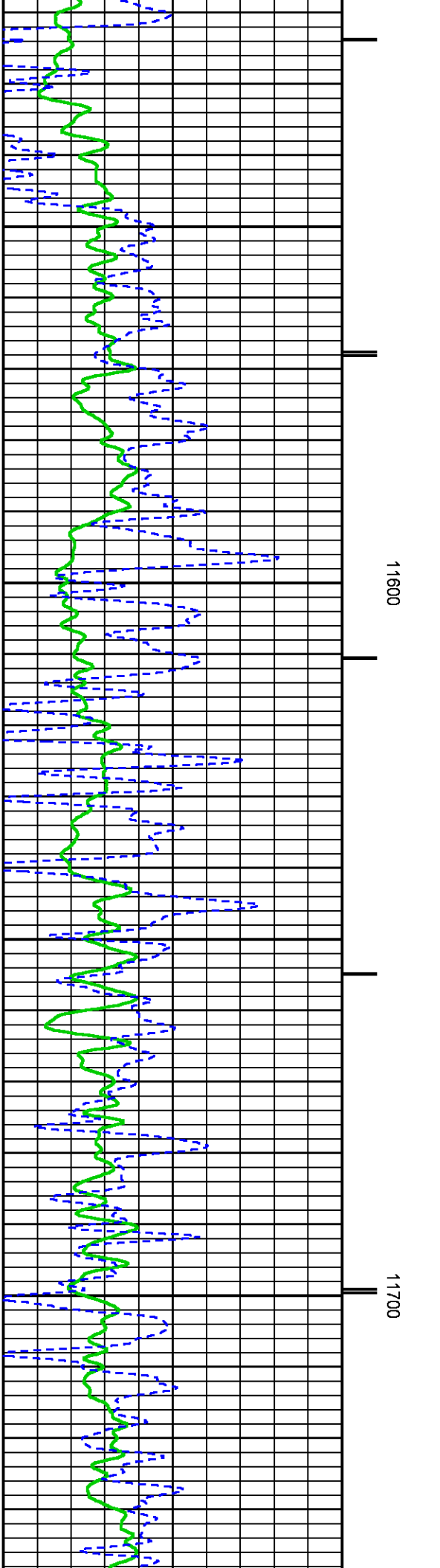
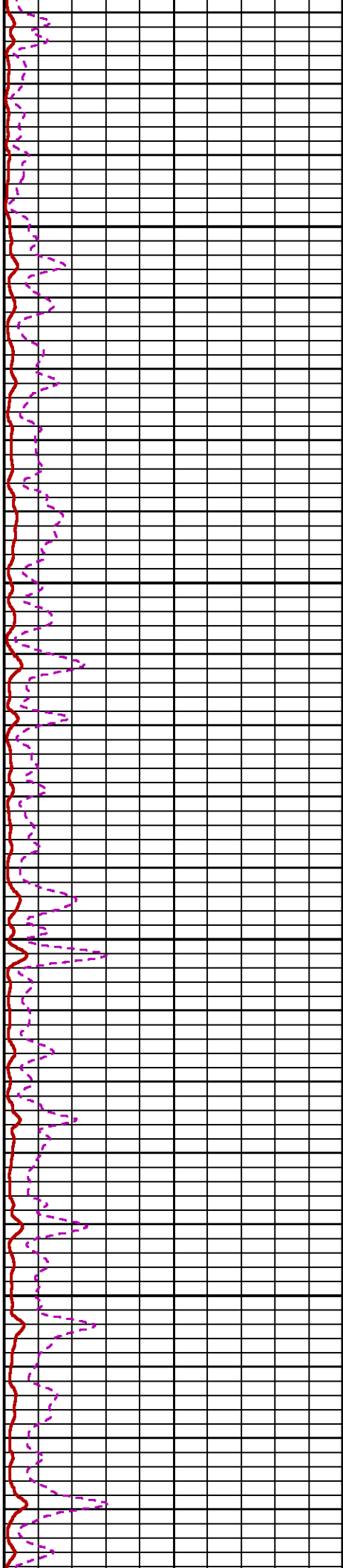
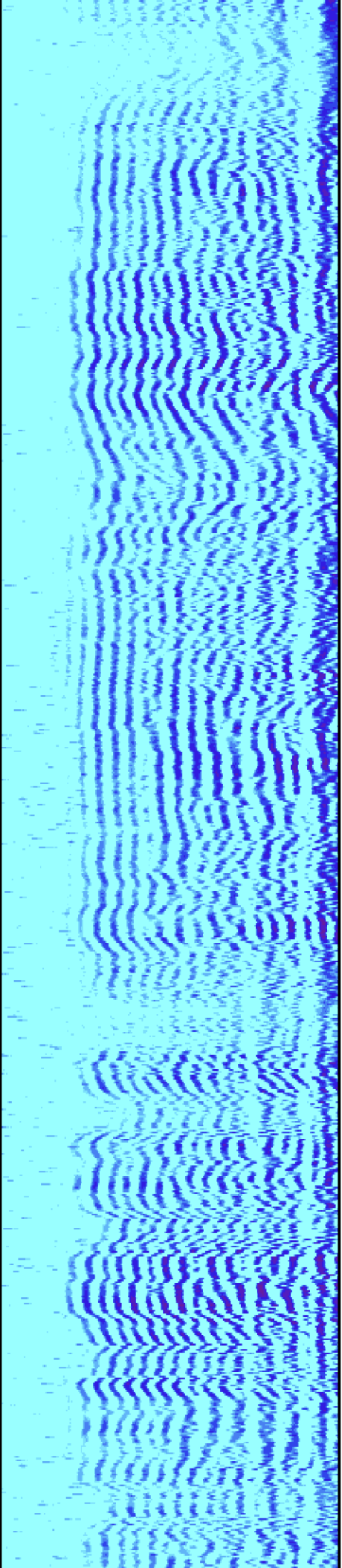


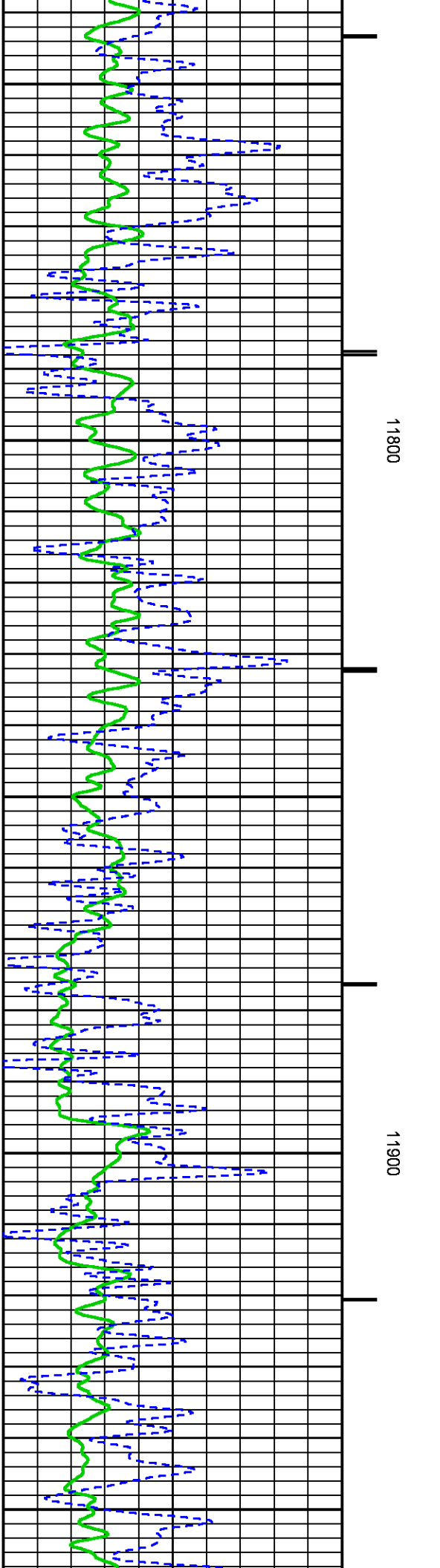
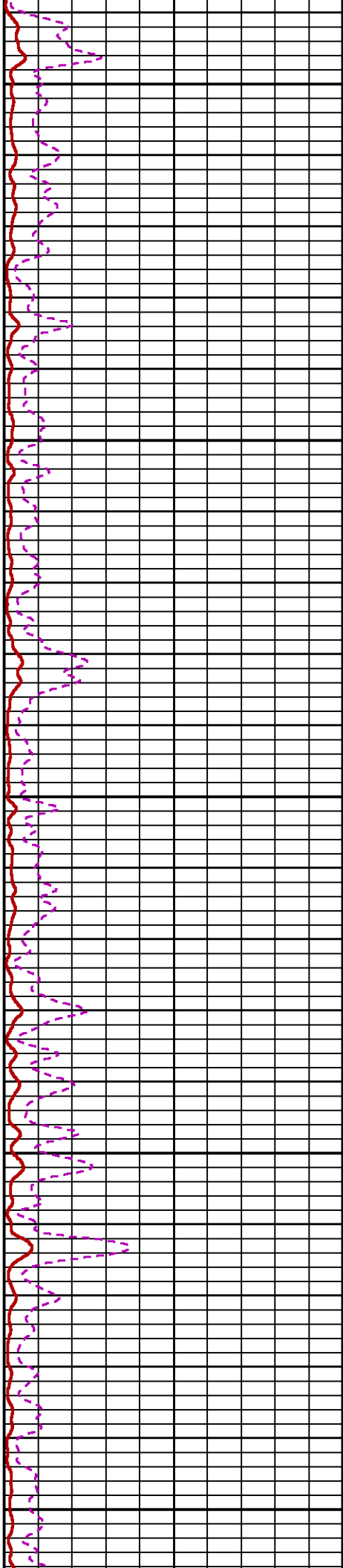
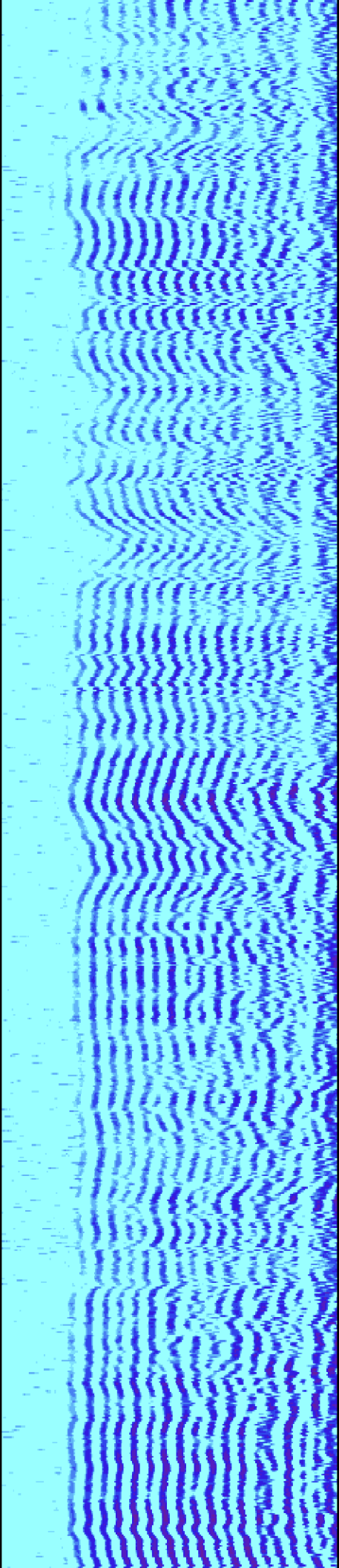


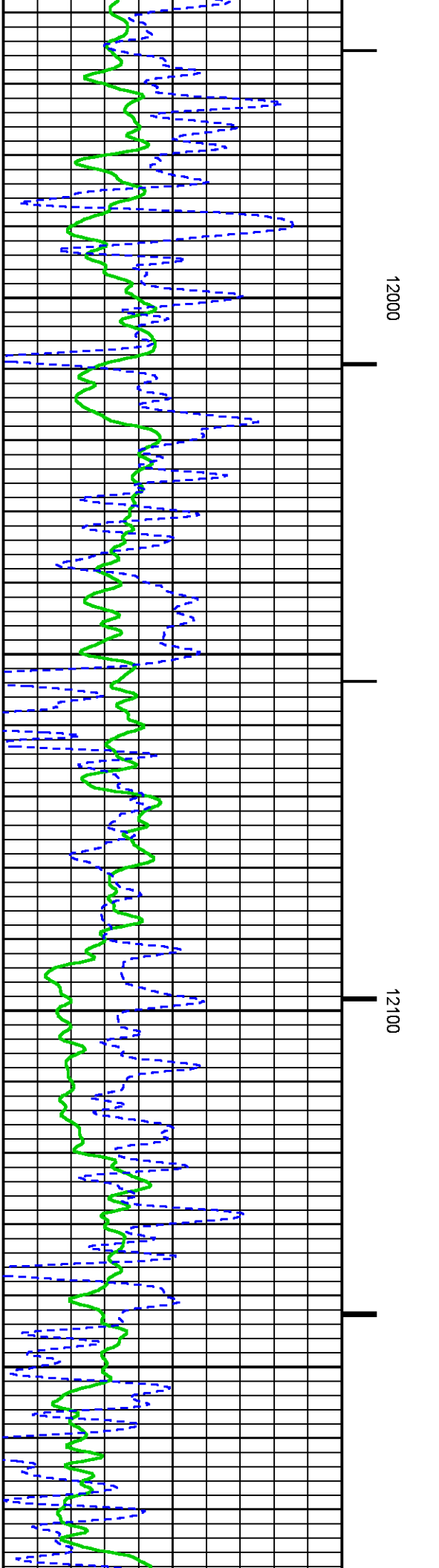
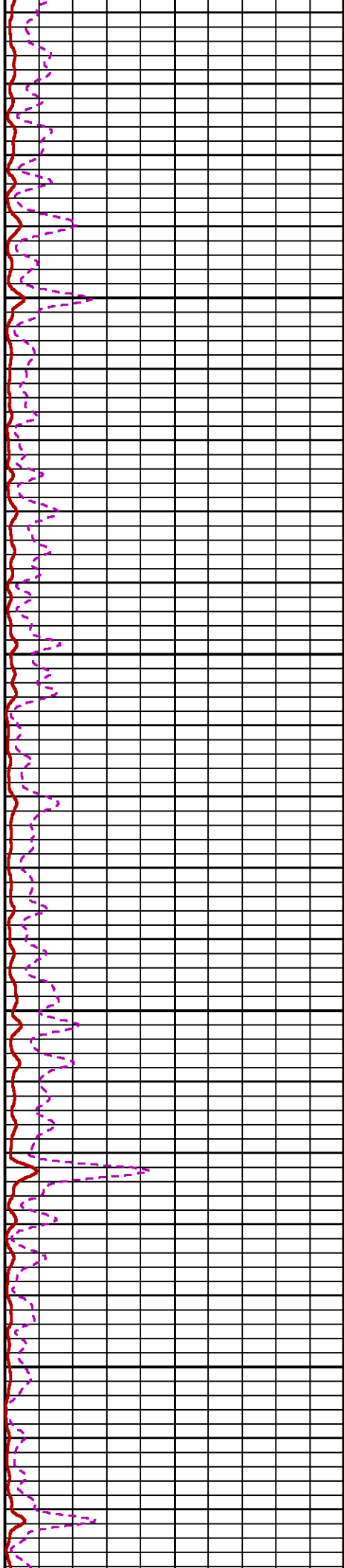
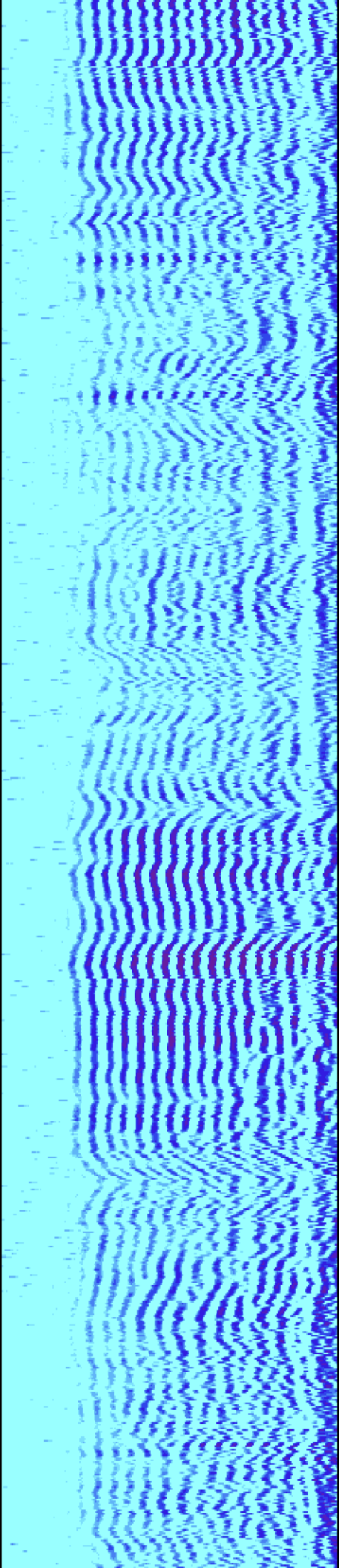


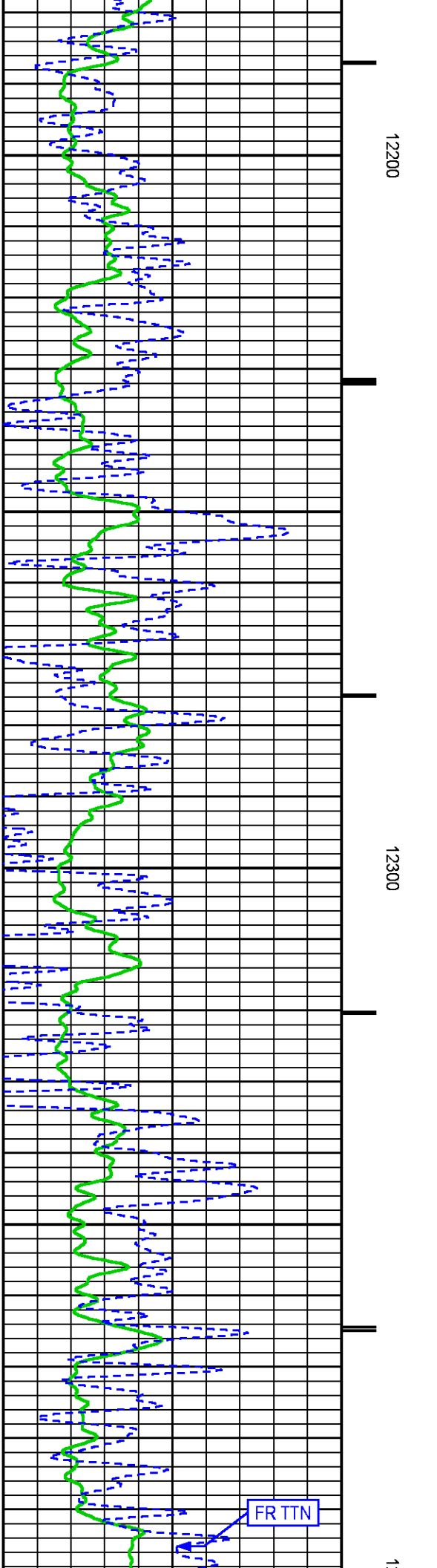
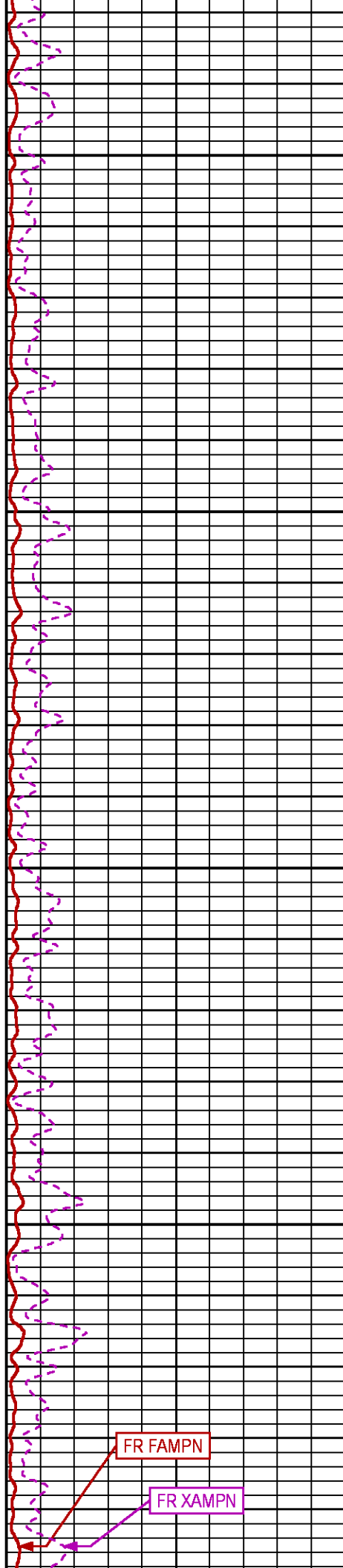
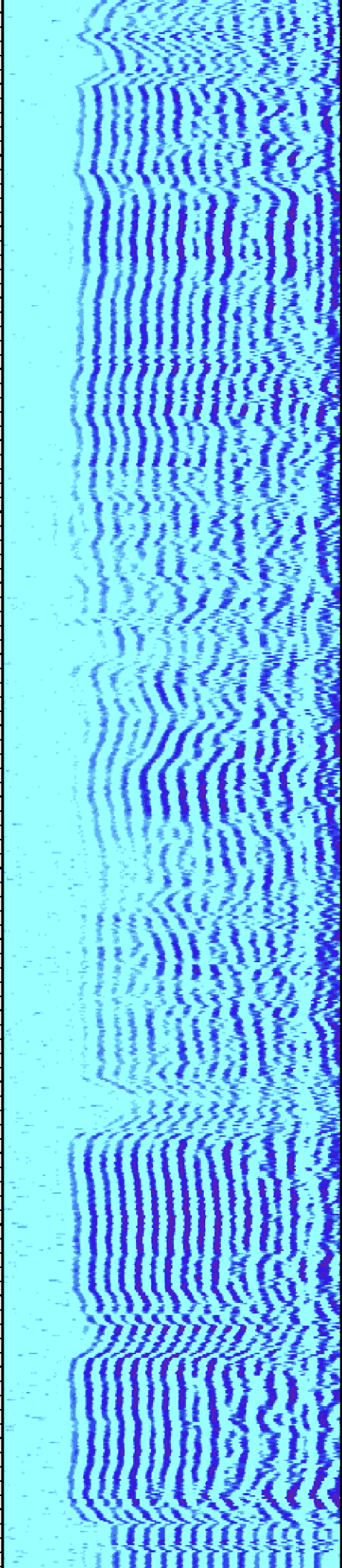












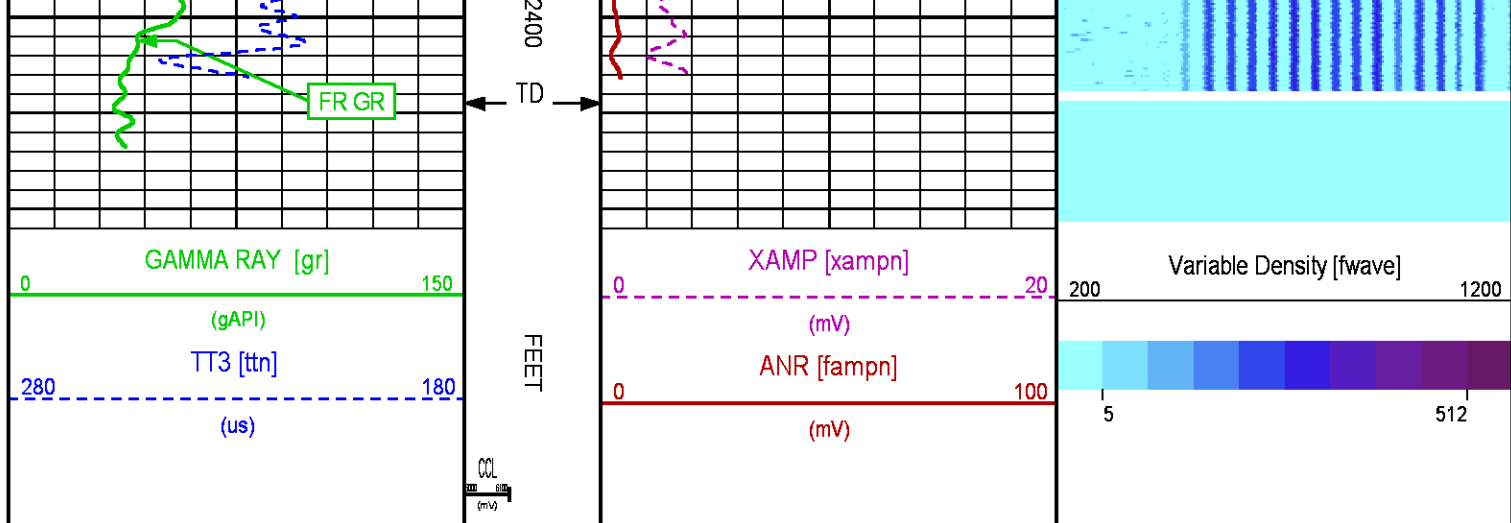
12200

12300

FR FAMPN

FR XAMPN

FR TTN



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: Tue May 26 11:24:23 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n012eR02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 24.250 ft BOTTOM DEPTH: 12421.250 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*) | 203 | us | TOP | BOTTOM |
| | AMP WINDOW START (fgp2*) | 203 | us | " | " |
| | AMP WINDOW START (fgp3*) | 203 | us | " | " |
| | AMP WINDOW START (fgp4*) | 203 | us | " | " |
| | AMP WINDOW START (fgp5*) | 203 | us | " | " |
| | AMP WINDOW START (fgp6*) | 203 | us | " | " |
| | AMP WINDOW START (fgp7*) | 203 | us | " | " |
| | AMP WINDOW START (fgp8*) | 203 | us | " | " |
| | AMP WINDOW START (fgpn*) | 203 | us | " | " |
| | AMP WINDOW LENGTH | 25 | us | " | " |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 215.678 | us | " | " |
| RAL TOOL DELAY | TOOL DELAY (str1*) | -71 | us | " | " |
| | TOOL DELAY (str2*) | -71 | us | " | " |
| | TOOL DELAY (str3*) | -71 | us | " | " |

| | | | | | |
|-----------------------|---------------------|-----|----|---|---|
| | TOOL DELAY (str3*) | -71 | us | " | " |
| | TOOL DELAY (str4*) | -71 | us | " | " |
| | TOOL DELAY (str5*) | -71 | us | " | " |
| | TOOL DELAY (str6*) | -71 | us | " | " |
| | TOOL DELAY (str7*) | -71 | us | " | " |
| | TOOL DELAY (str8*) | -71 | us | " | " |
| | TOOL DELAY (strn*) | -71 | us | " | " |
| BASELINE NOISE (NEAR) | NOISE WINDOW START | 140 | 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 | " | " |

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n012eTOP02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 25.750 ft BOTTOM DEPTH: 200.000 ft

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

| RAL CCL PROCESSING | | | | | |
|--------------------|-----------|-------|-------|---------------|--------|
| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
| CCL FLOOR | CCL FLOOR | 0 | | TOP | BOTTOM |

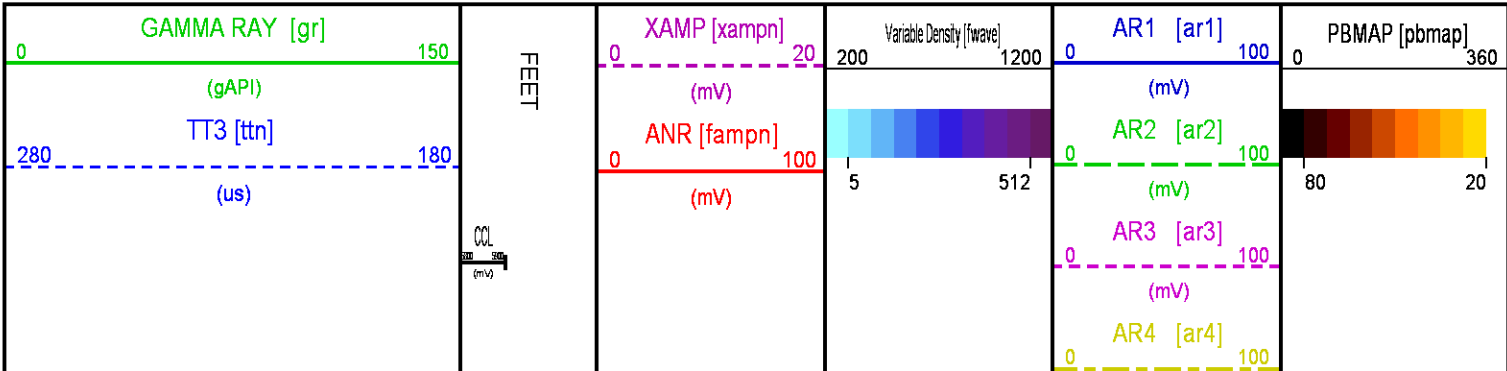
| ANALOG RAL PROCESSING | | | | | |
|---------------------------|----------------------------|---------|-------|---------------|--------|
| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
| AMPLITUDE WINDOW (NEAR) | AMP WINDOW START (fgp1*) | 187 | us | TOP | BOTTOM |
| | AMP WINDOW 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*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 215.678 | 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 | 70 | us | " | " |

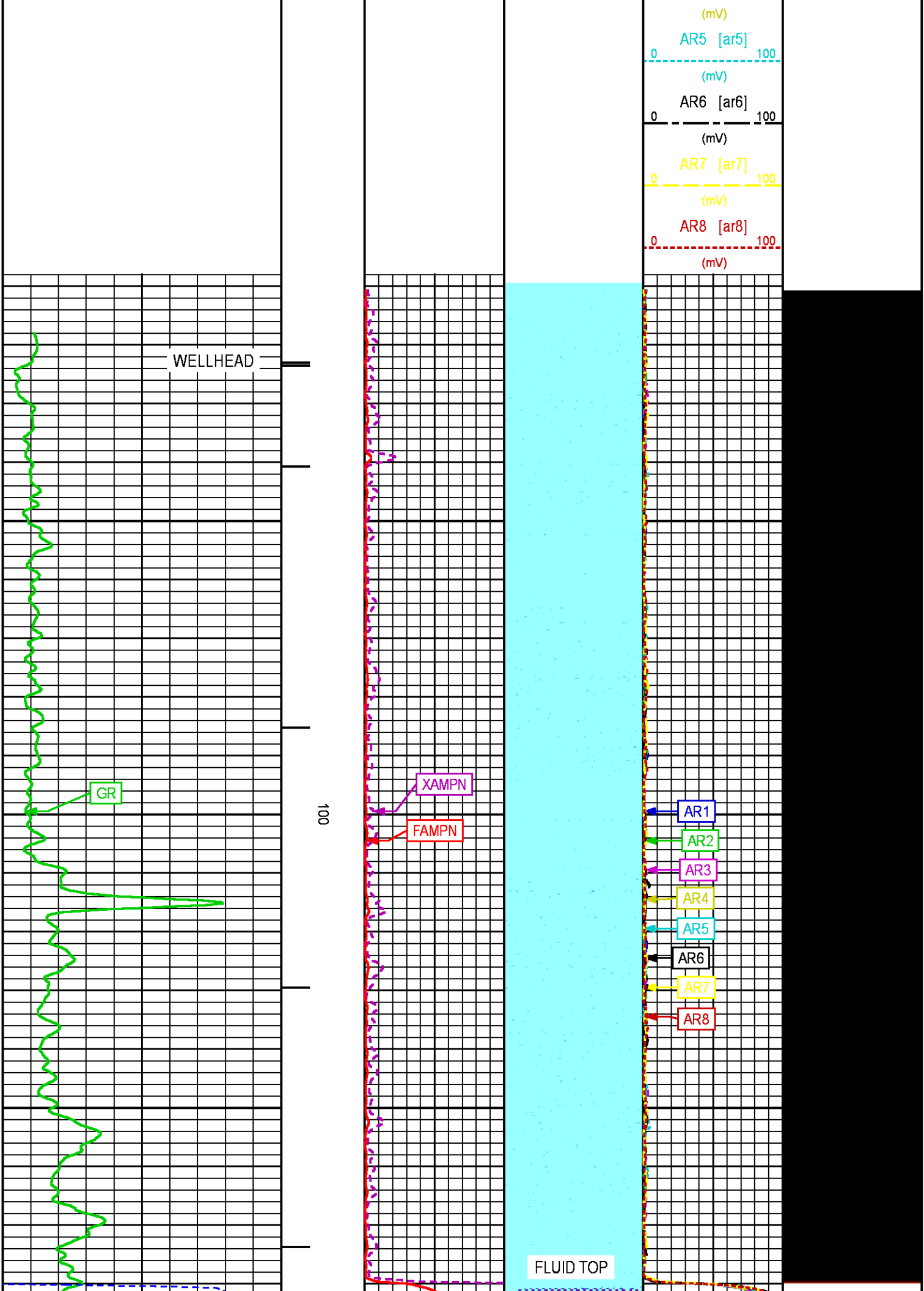
| BASELINE NOISE (NEAR) | NOISE WINDOW START | 76 | us | " | " |
|-------------------------|---------------------|-------|-------|---------------|--------|
| | NOISE WINDOW LENGTH | 85 | | | |
| PERCENT BOND CEMENT MAP | | | | | |
| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
| RAL 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 | " | " |

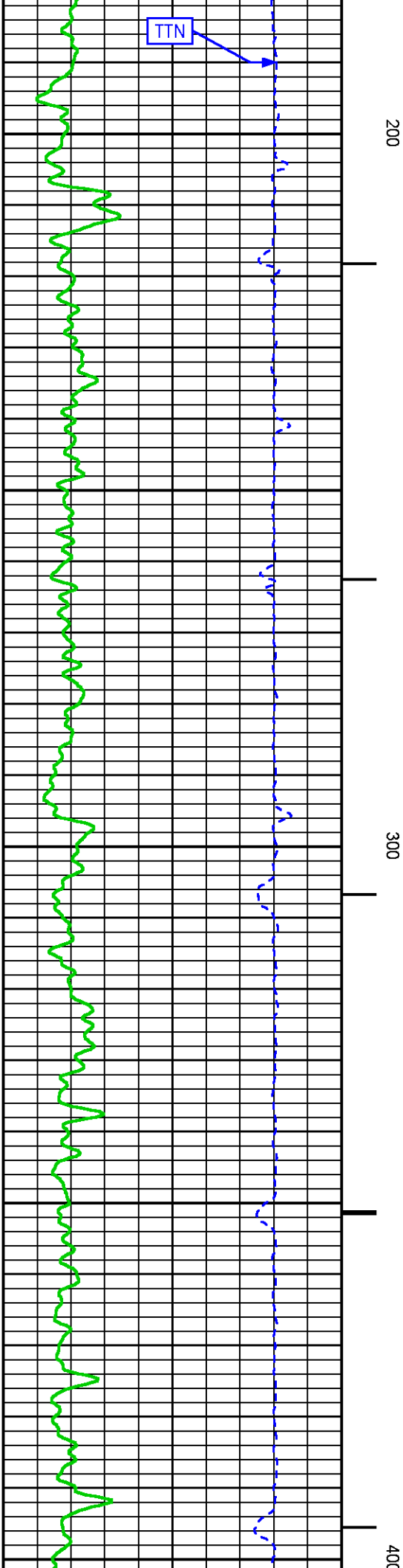
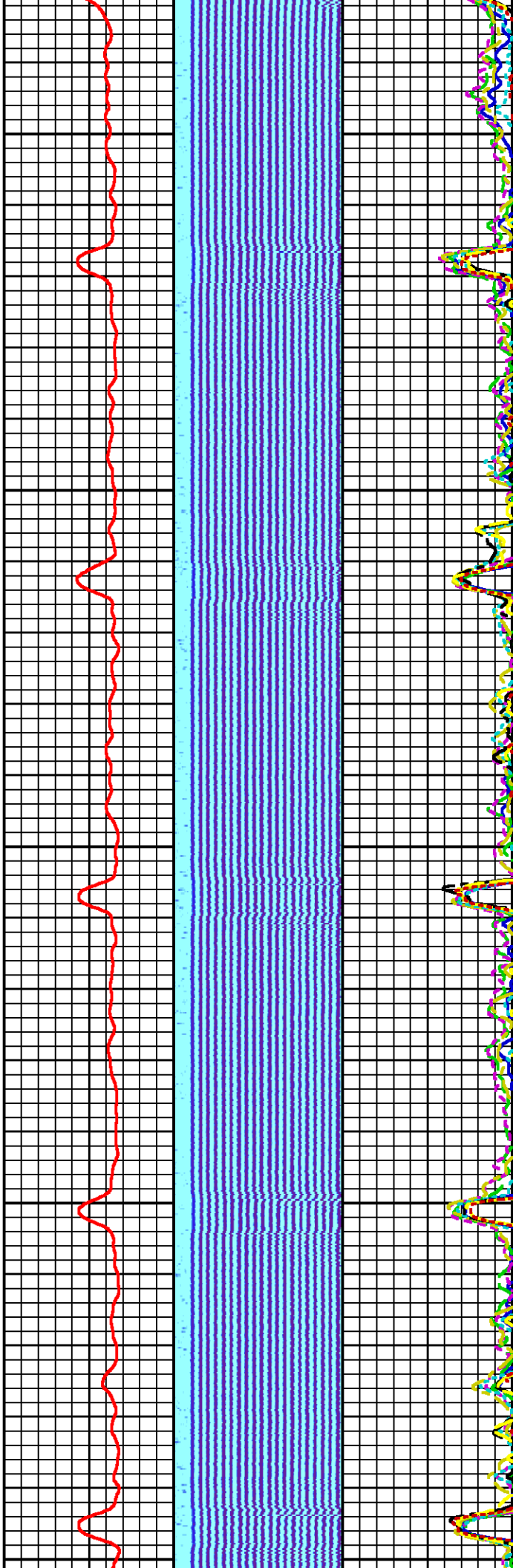
| CURVE DESCRIPTION REPORT | | |
|--------------------------|----------------------|---|
| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
| F1:AR1 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R1 |
| F1:AR2 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R2 |
| F1:AR3 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R3 |
| F1:AR4 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R4 |
| F1:AR5 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R5 |
| F1:AR6 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R6 |
| F1:AR7 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R7 |
| F1:AR8 | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE T-R8 |
| F1:CCL | May 26 11:11:17 2015 | CASING COLLAR LOCATOR |
| F1:FAMPN | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER |
| F1:FWAVE | May 26 11:11:17 2015 | FAR WAVE FORM |
| F1:GR | May 26 11:11:17 2015 | GAMMA RAY |
| F1:PBMAP | May 26 11:11:17 2015 | PERCENT BOND CEMENT MAP |
| F1:TTN | May 26 11:11:17 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER |
| F1:XAMPN | May 26 11:11:17 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

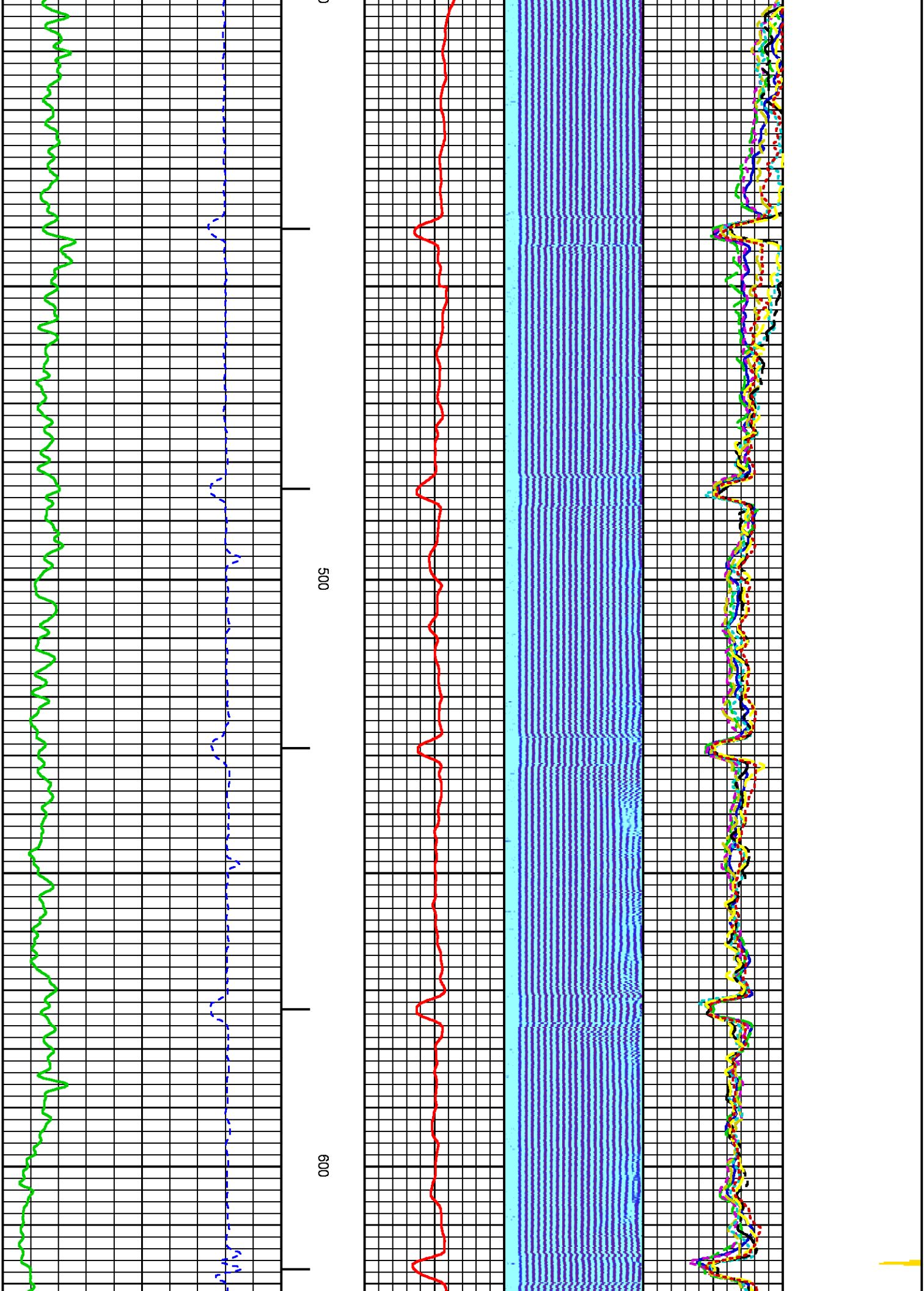
| CURVE MEASURE POINT OFFSET | | | | | | | |
|----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
| AR1 | 13.75 | AR5 | 13.75 | CCL | 8.50 | XAMPN | 13.75 |
| 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 | | |

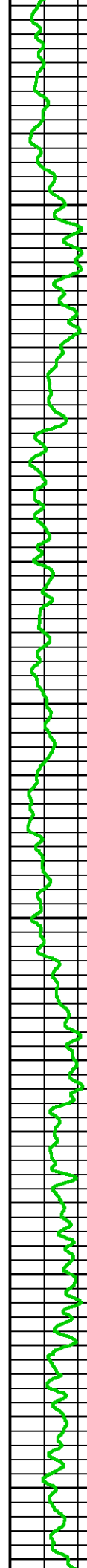
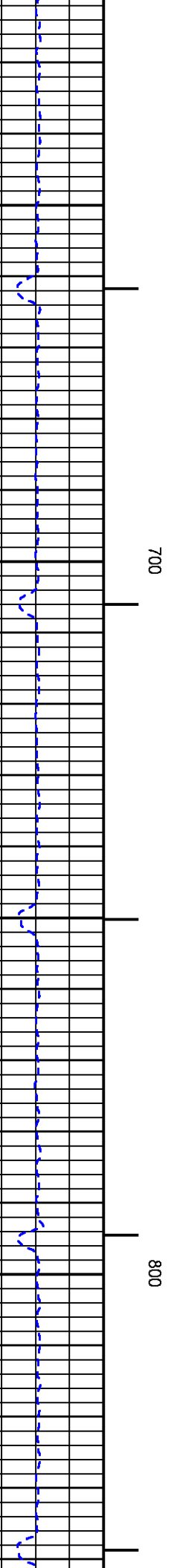
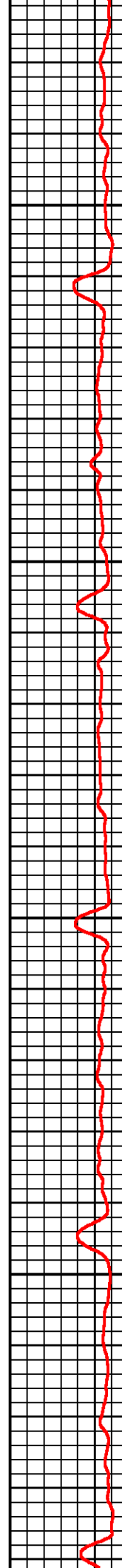
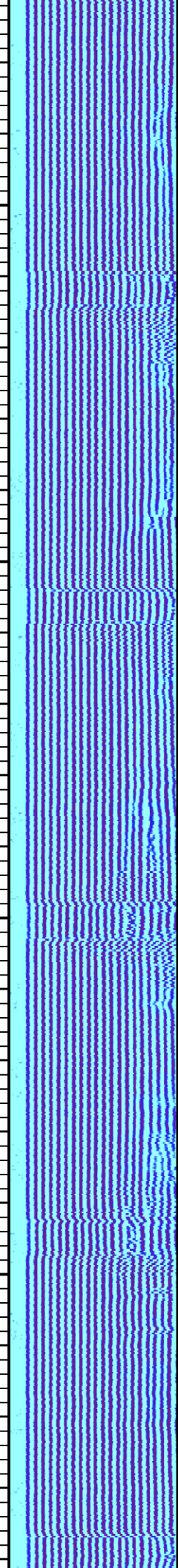
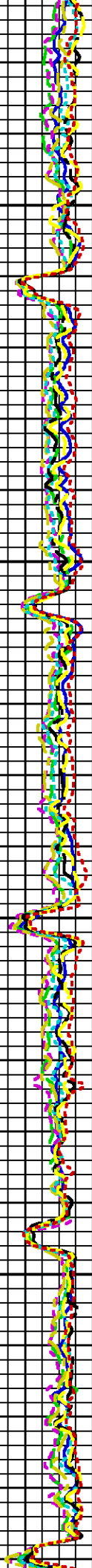
| | |
|---------------|---|
| Presentation | : cas6685:/dat1a/CH096699/CBLMAIN_SEC.fvpdf [5"/100' Scale] |
| Plot Interval | : 9.5 - 12421.2 Feet |
| Data File 1 | : F1 : cas6685:/dat1a/CH096699/n012eMAIN.xtf |
| Created On | : May 22 14:43:24 2015 |
| Company | : WPX ENERGY |
| Well | : FEDERAL RGU 44-26-198 |
| Field | : SULPHUR CREEK |
| File Interval | : 9.5 - 12421.2 Feet |
| OCT | : n012e |

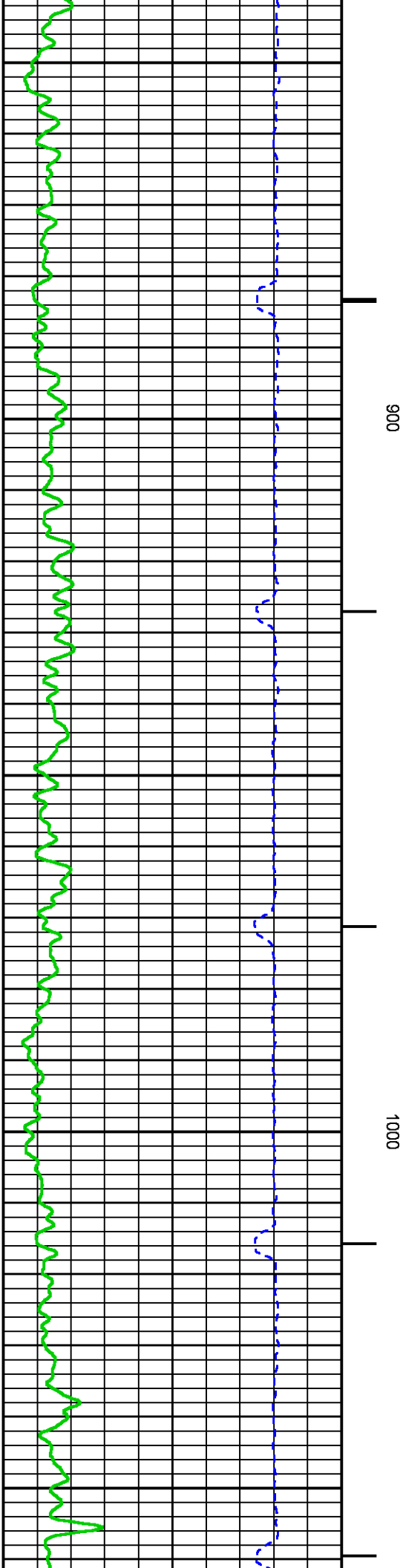
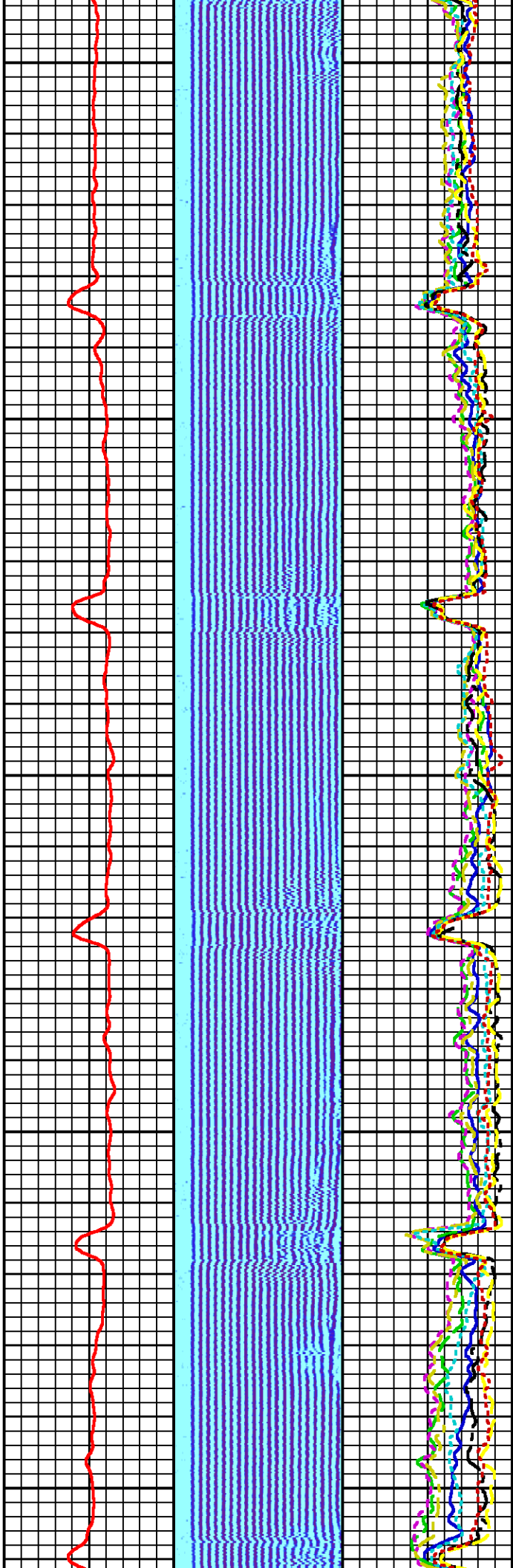


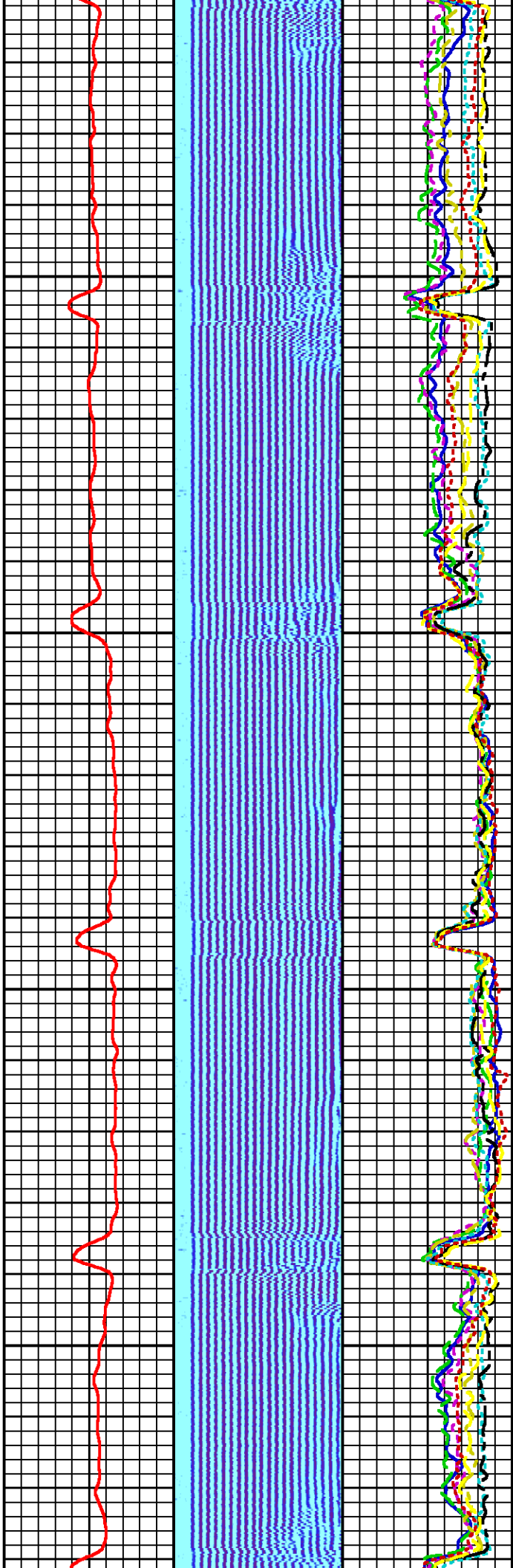






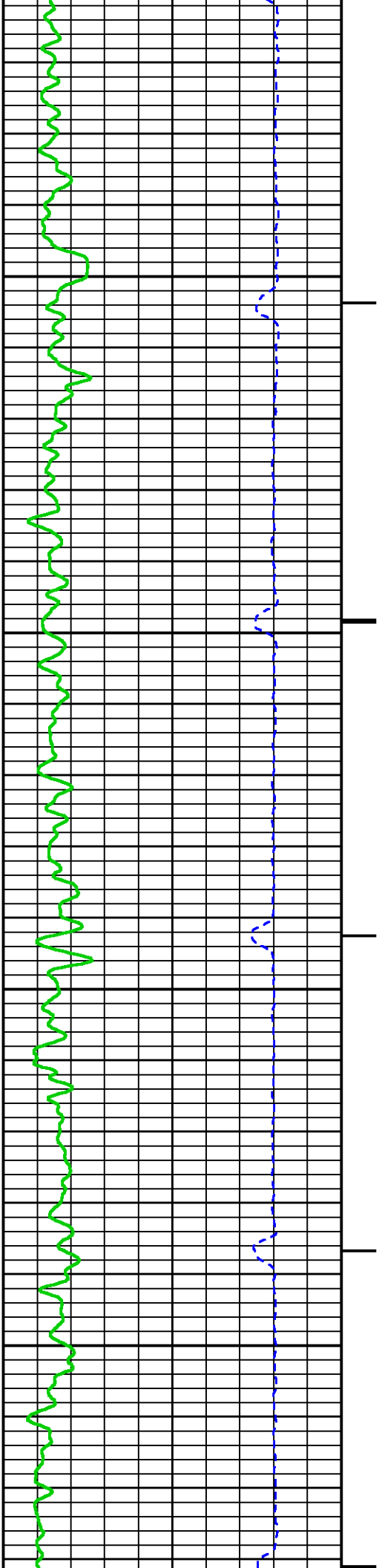


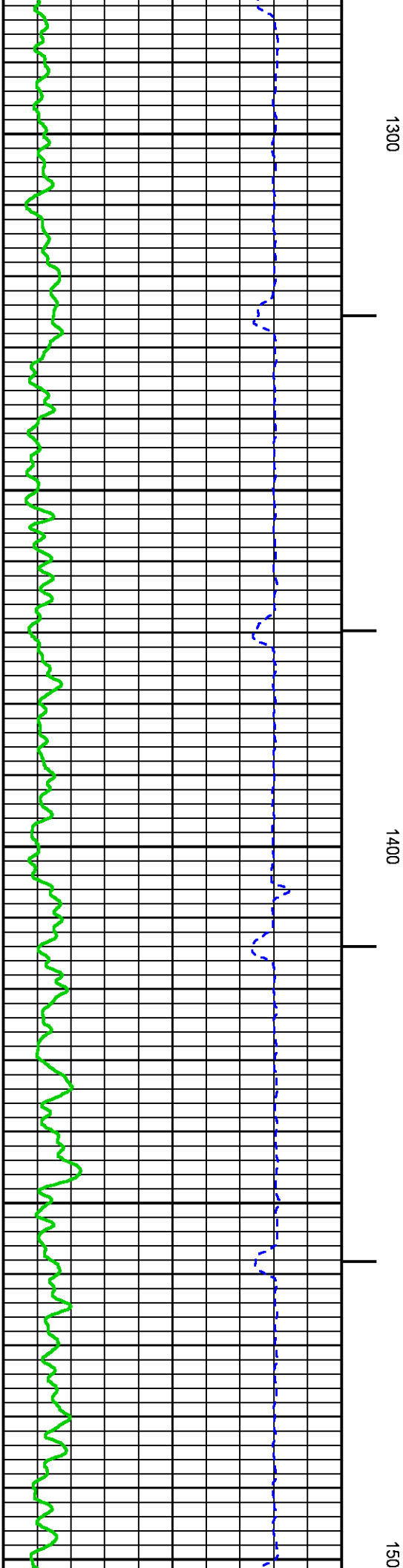
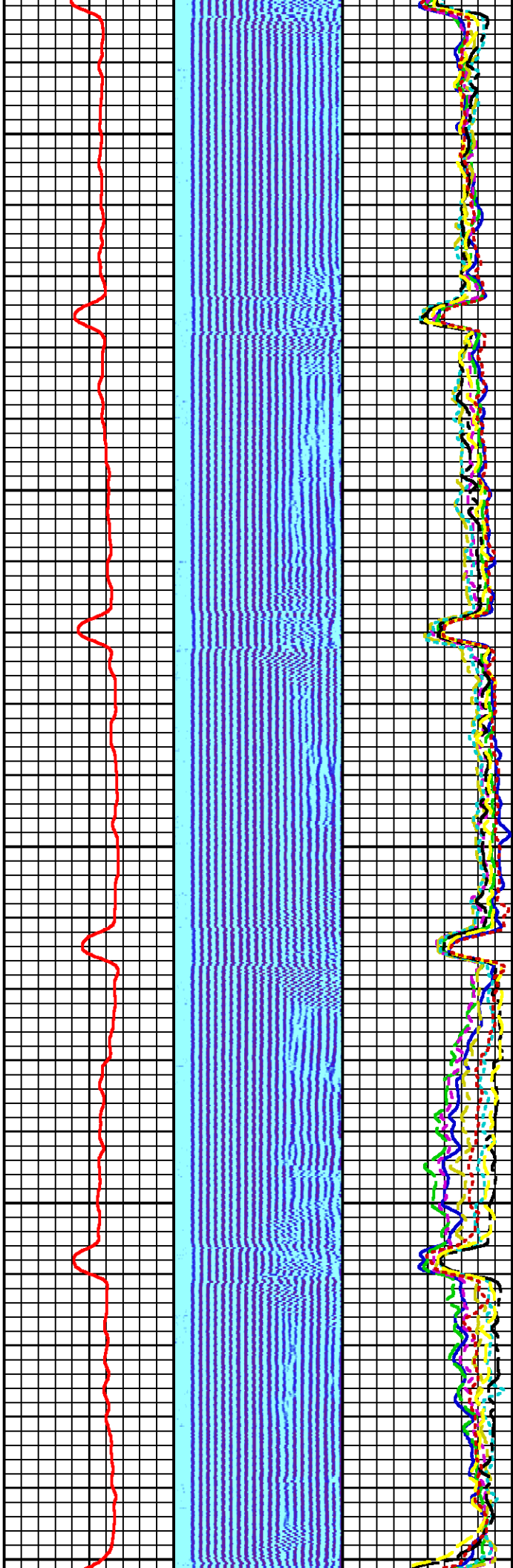


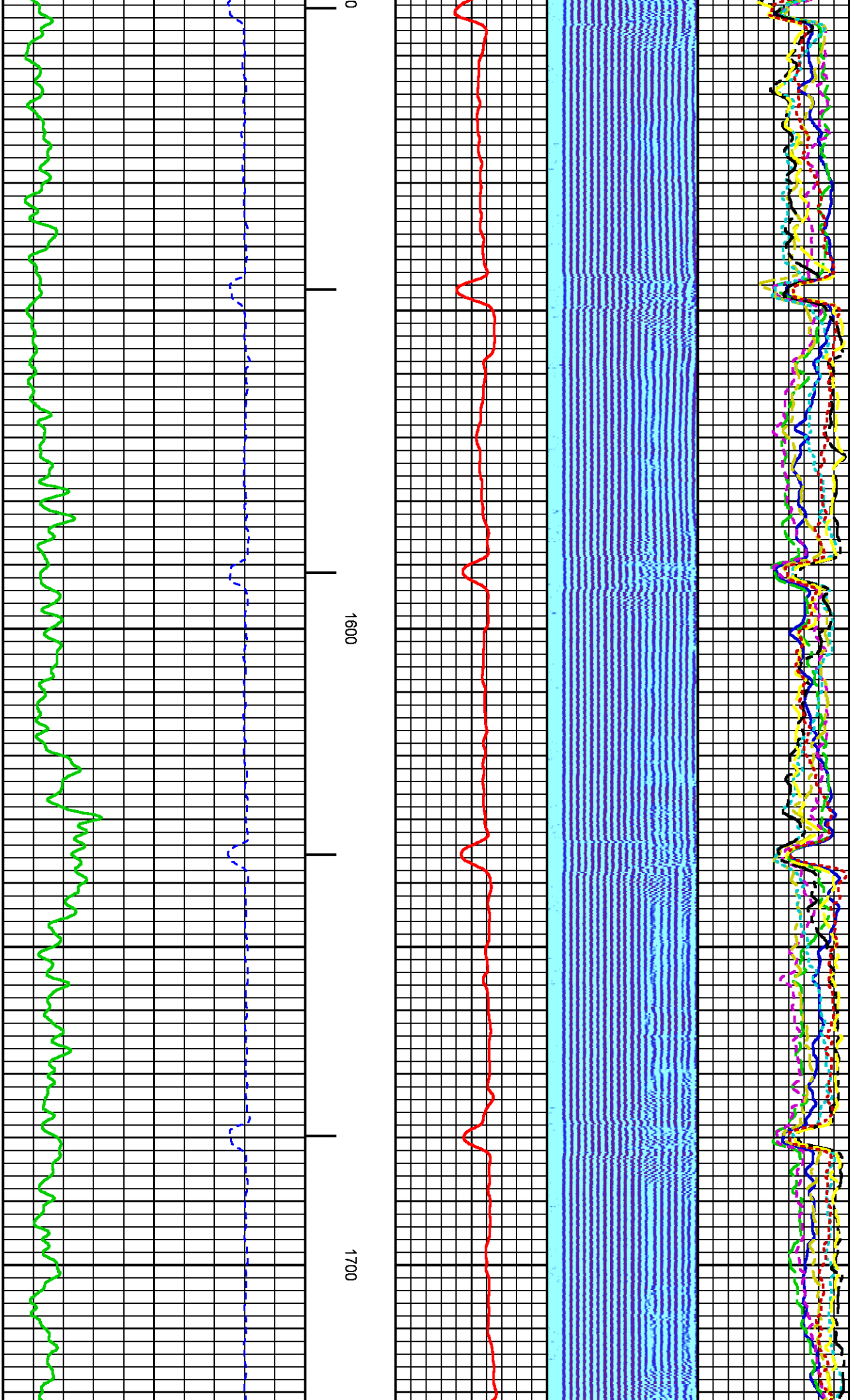


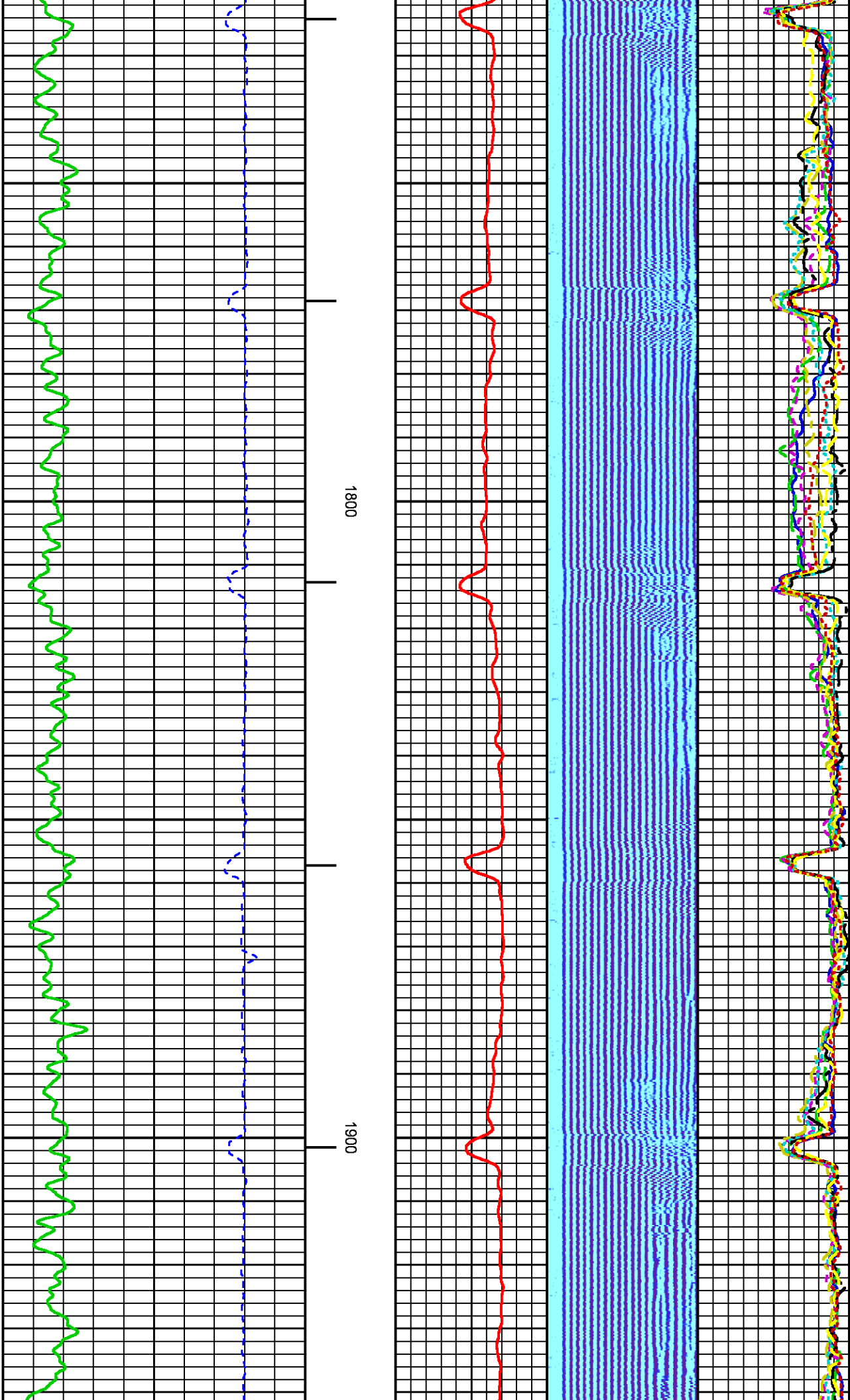
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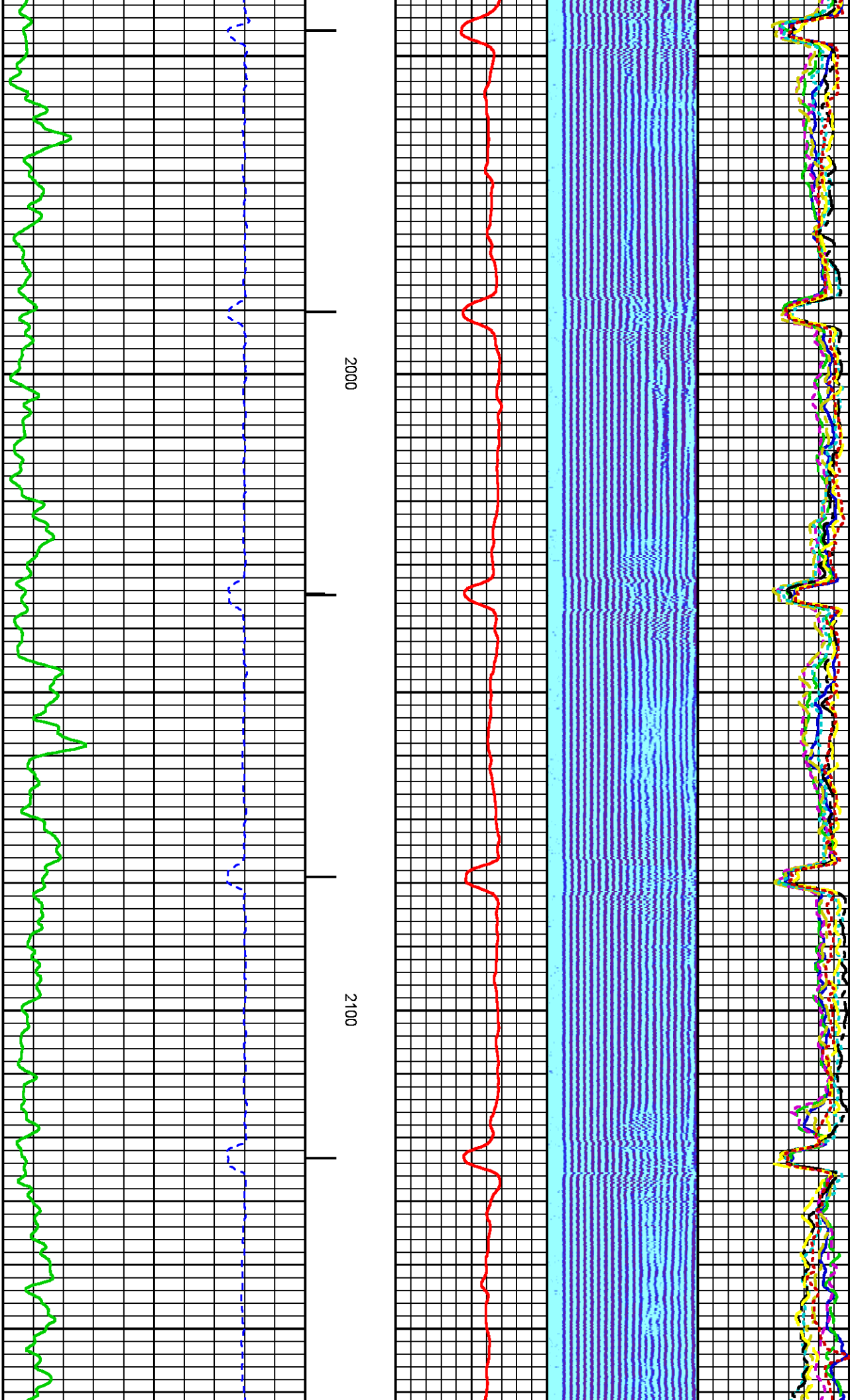
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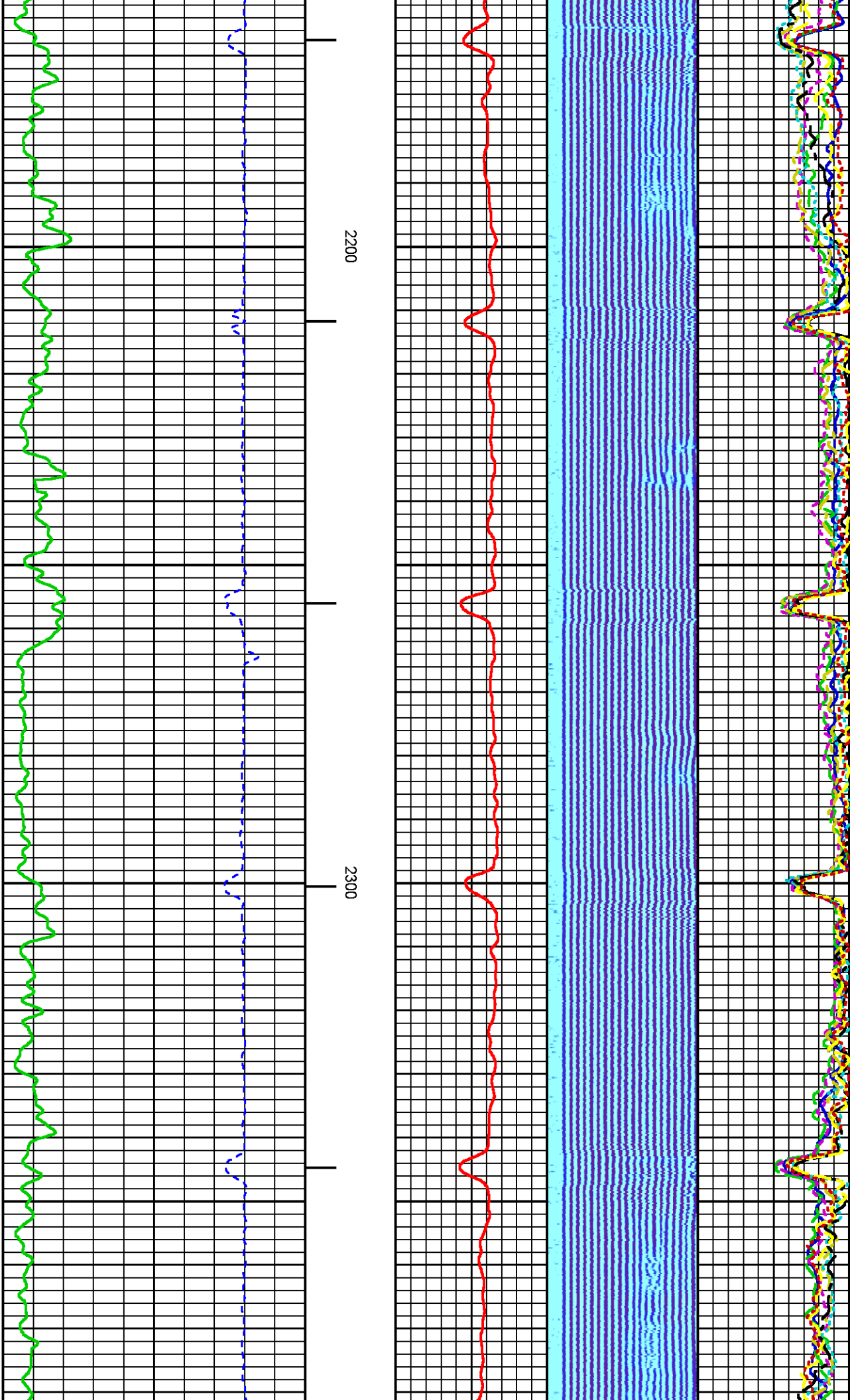


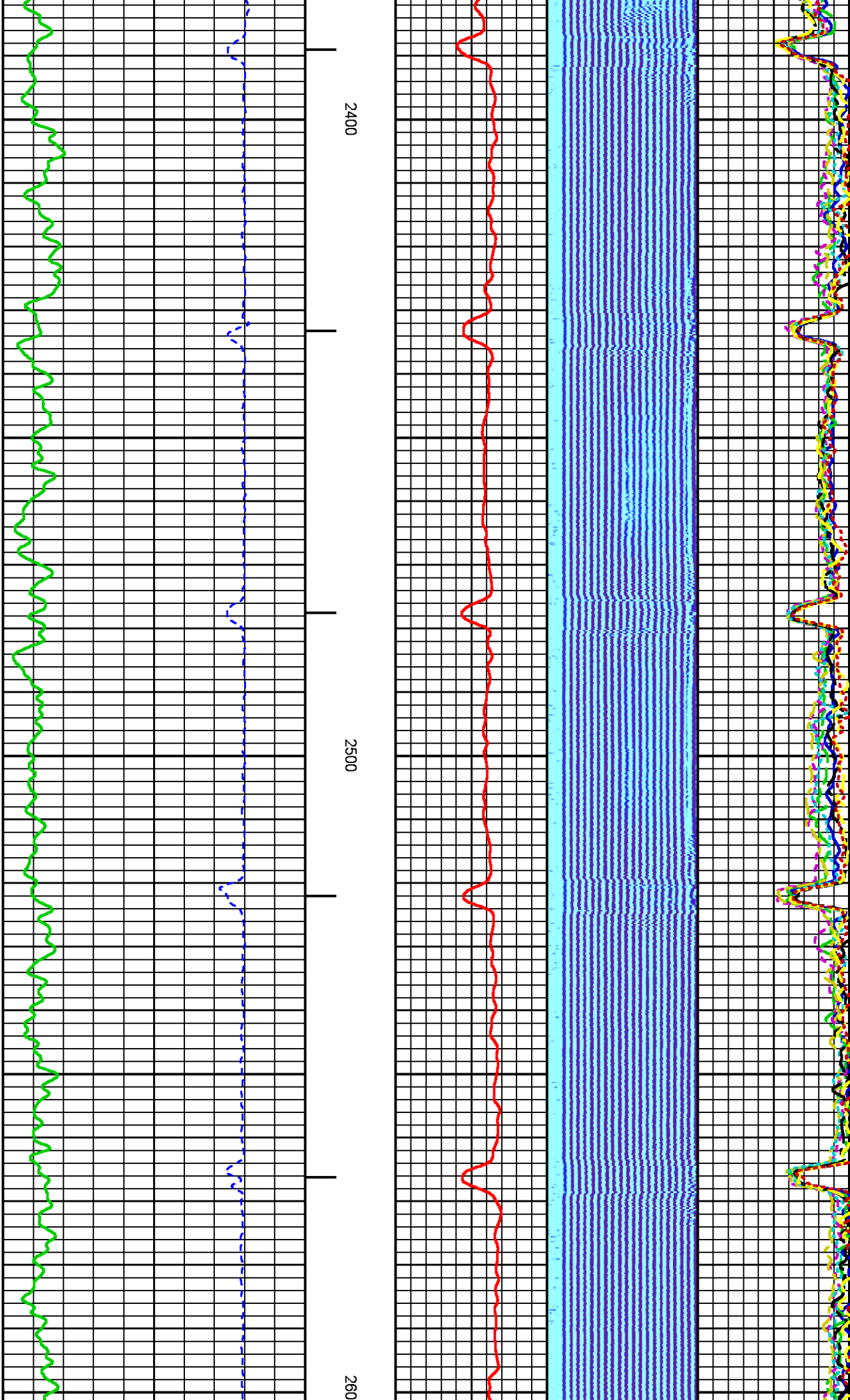


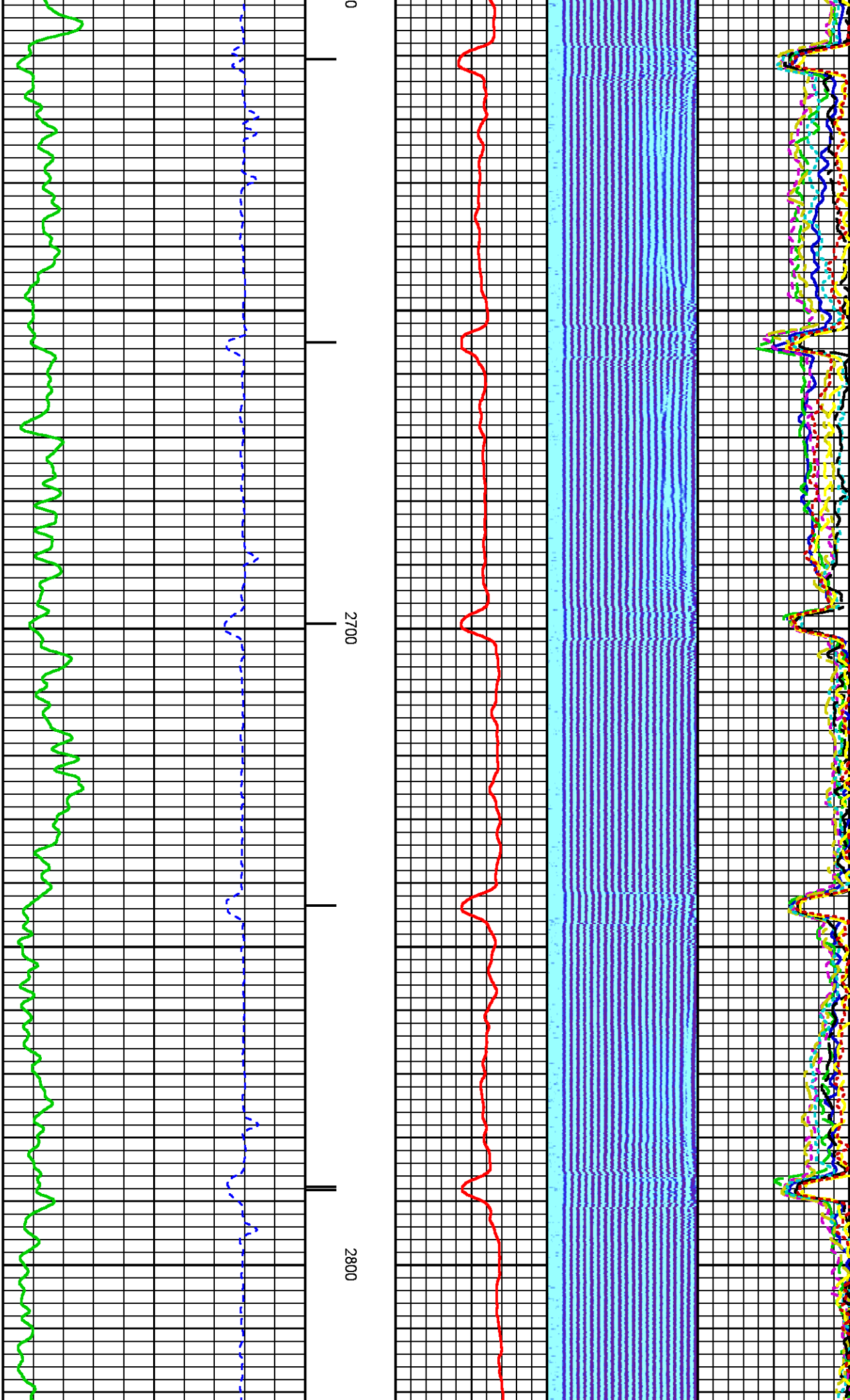


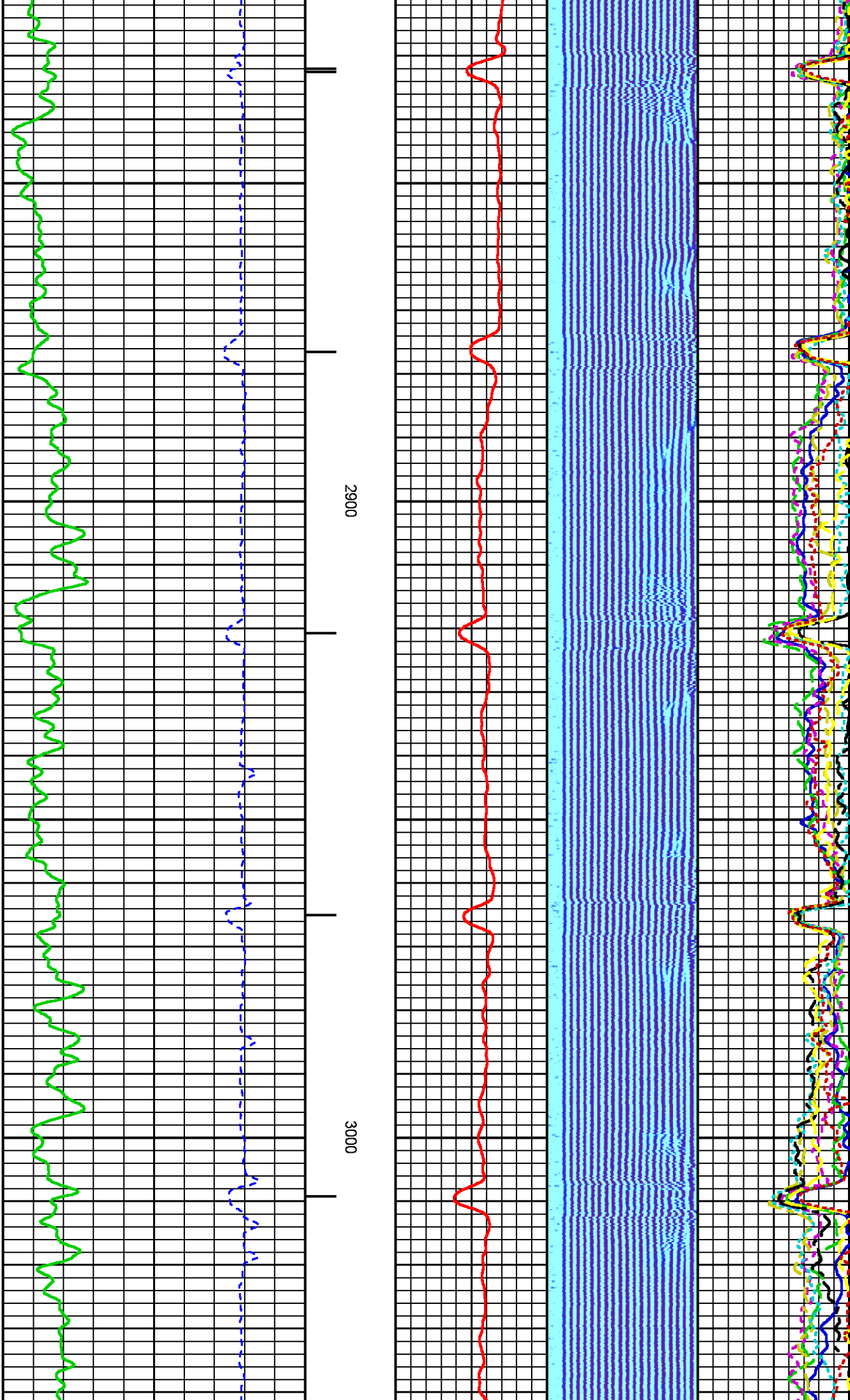


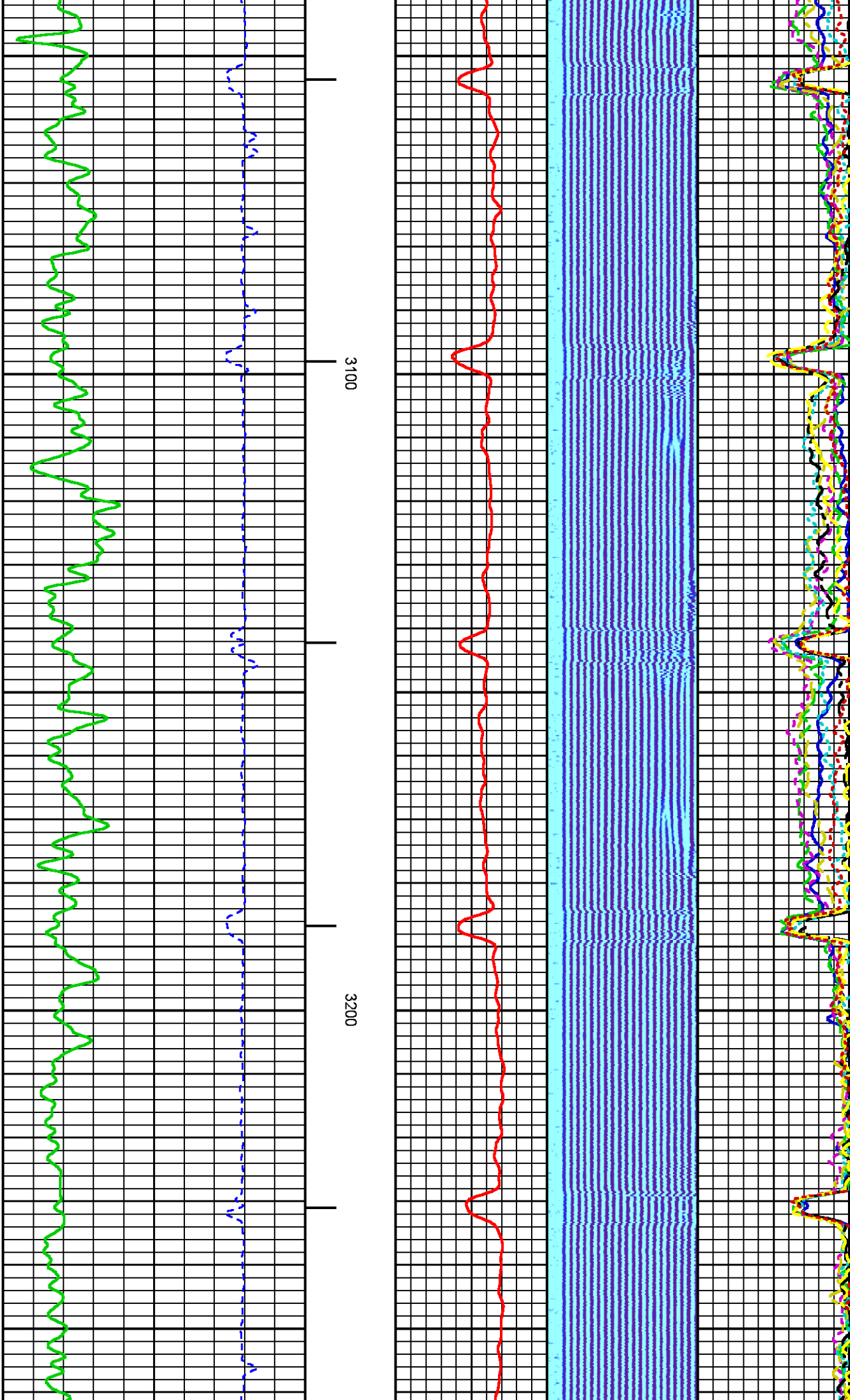


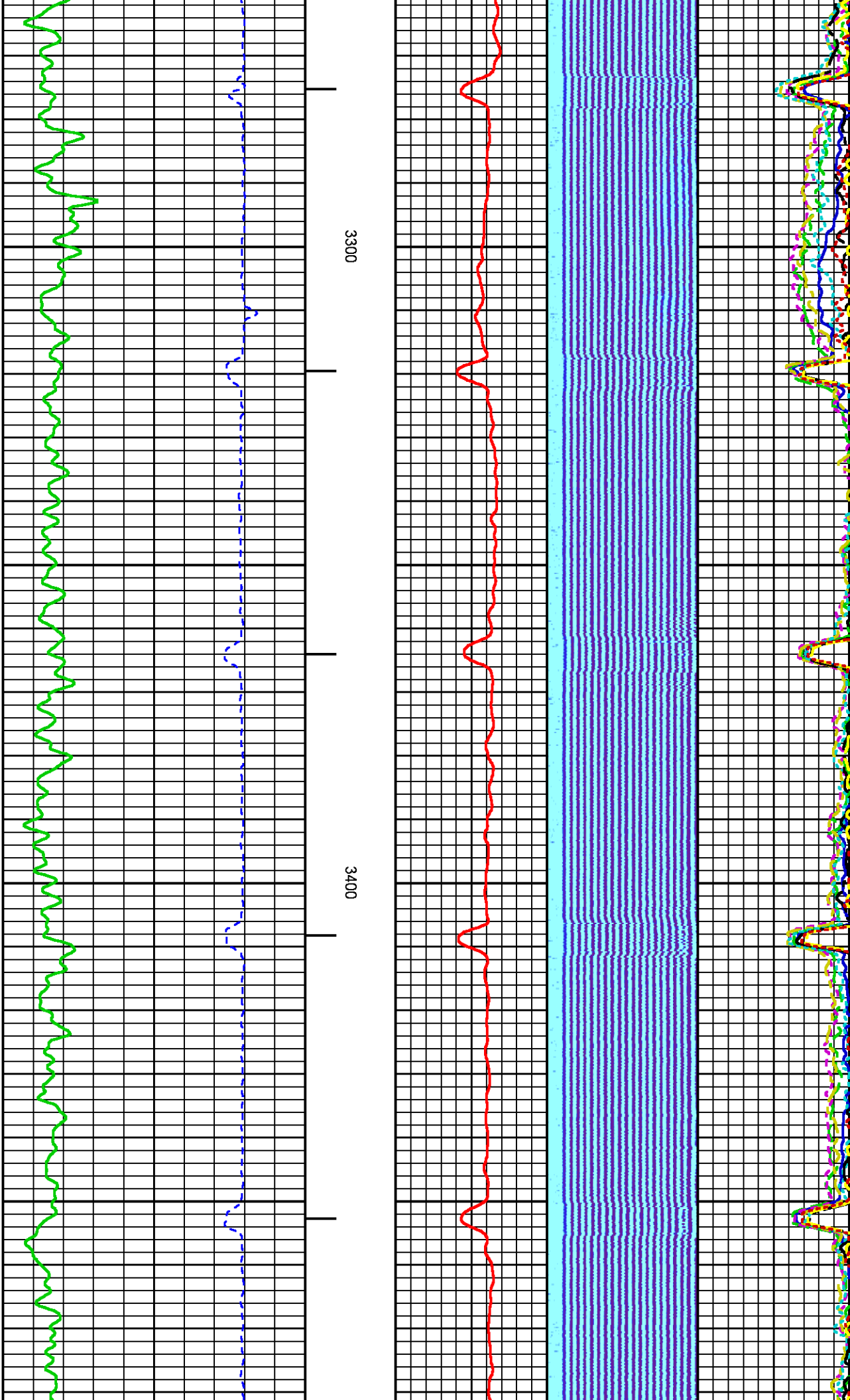


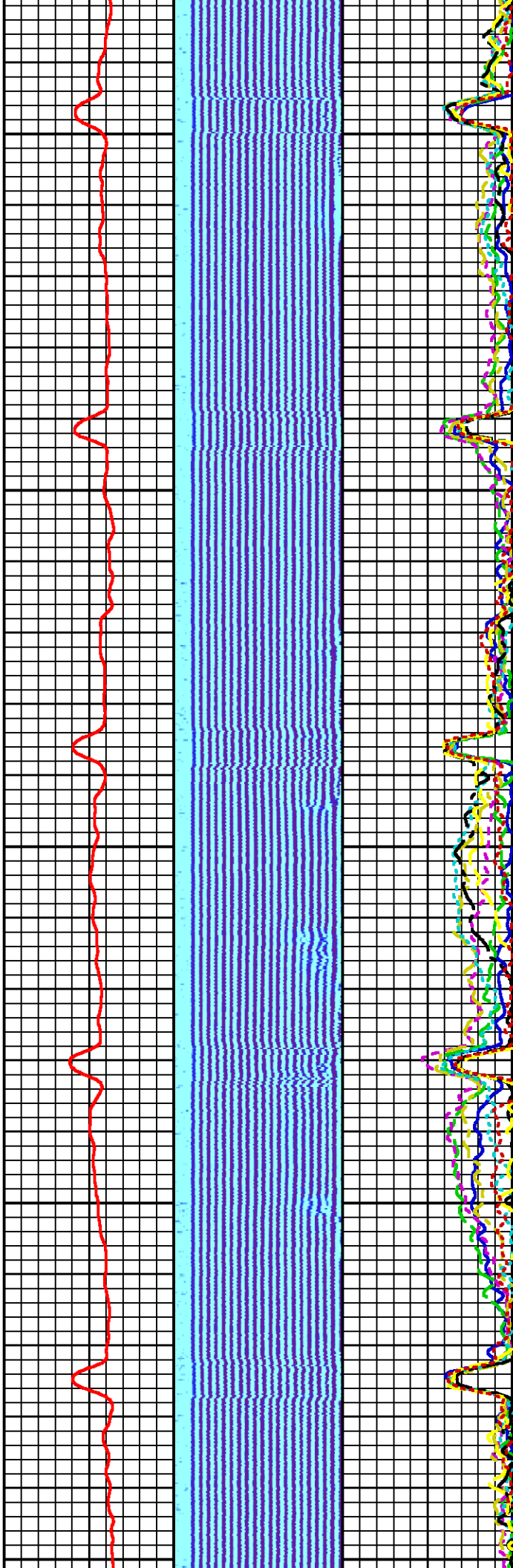








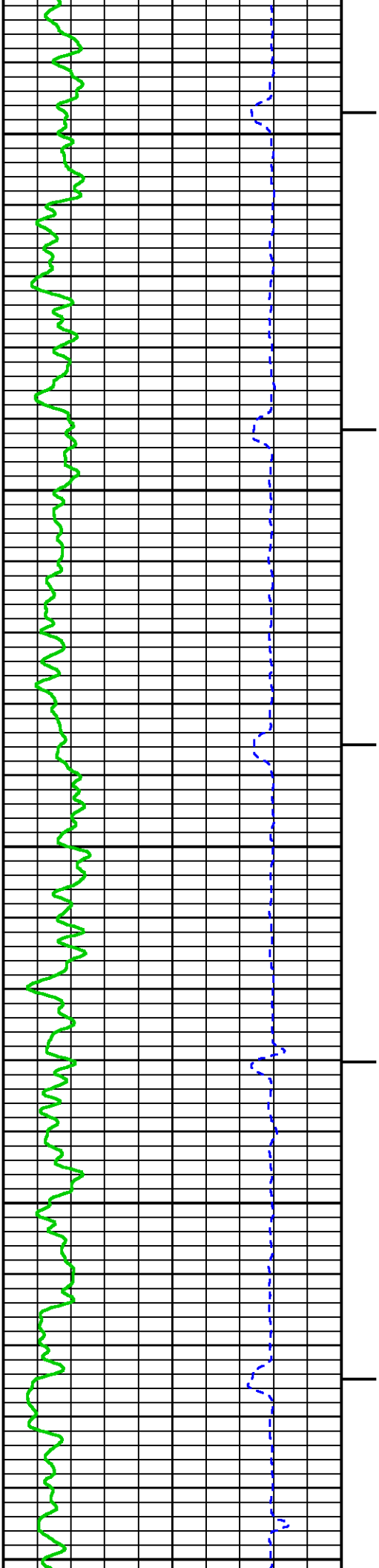


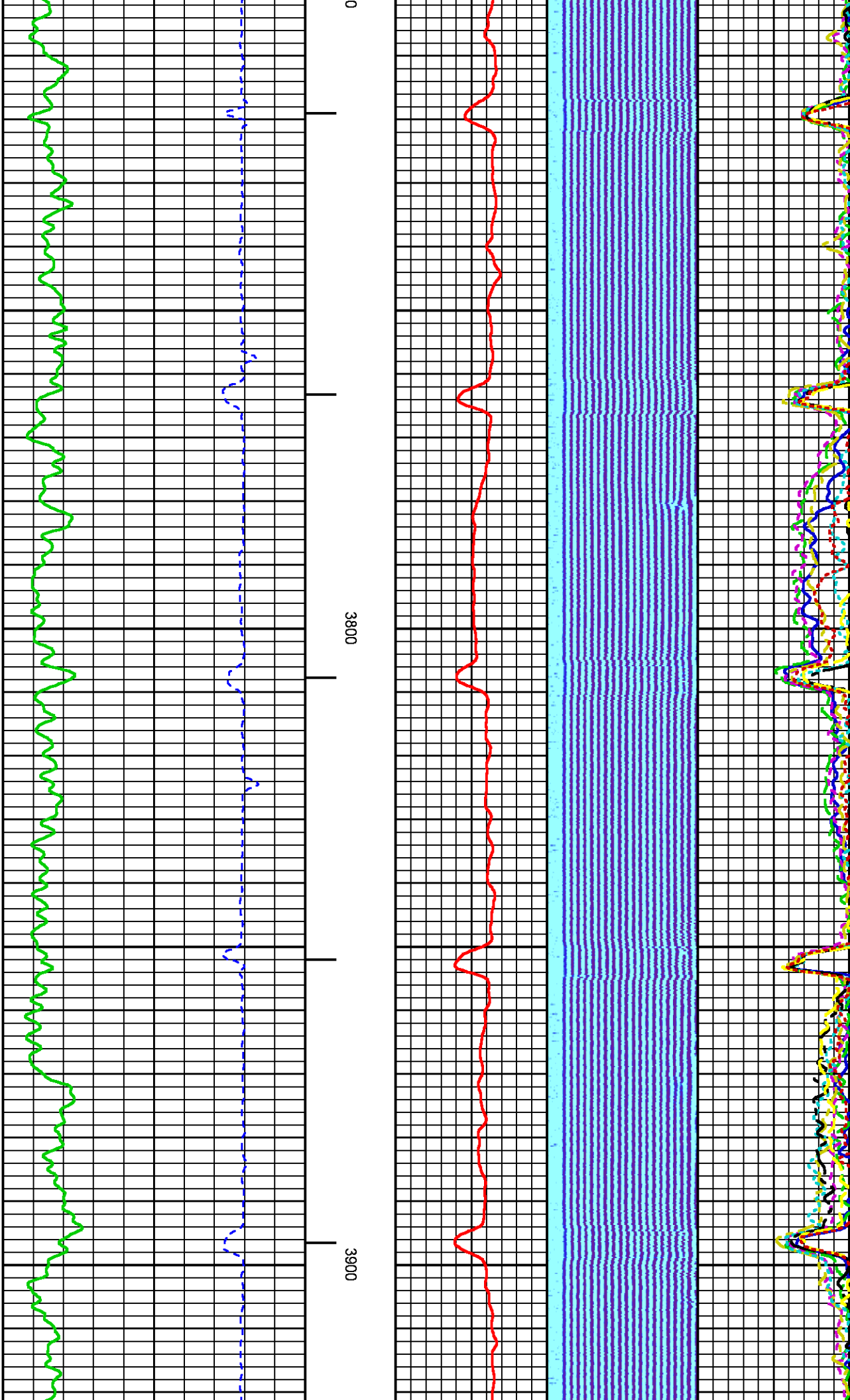


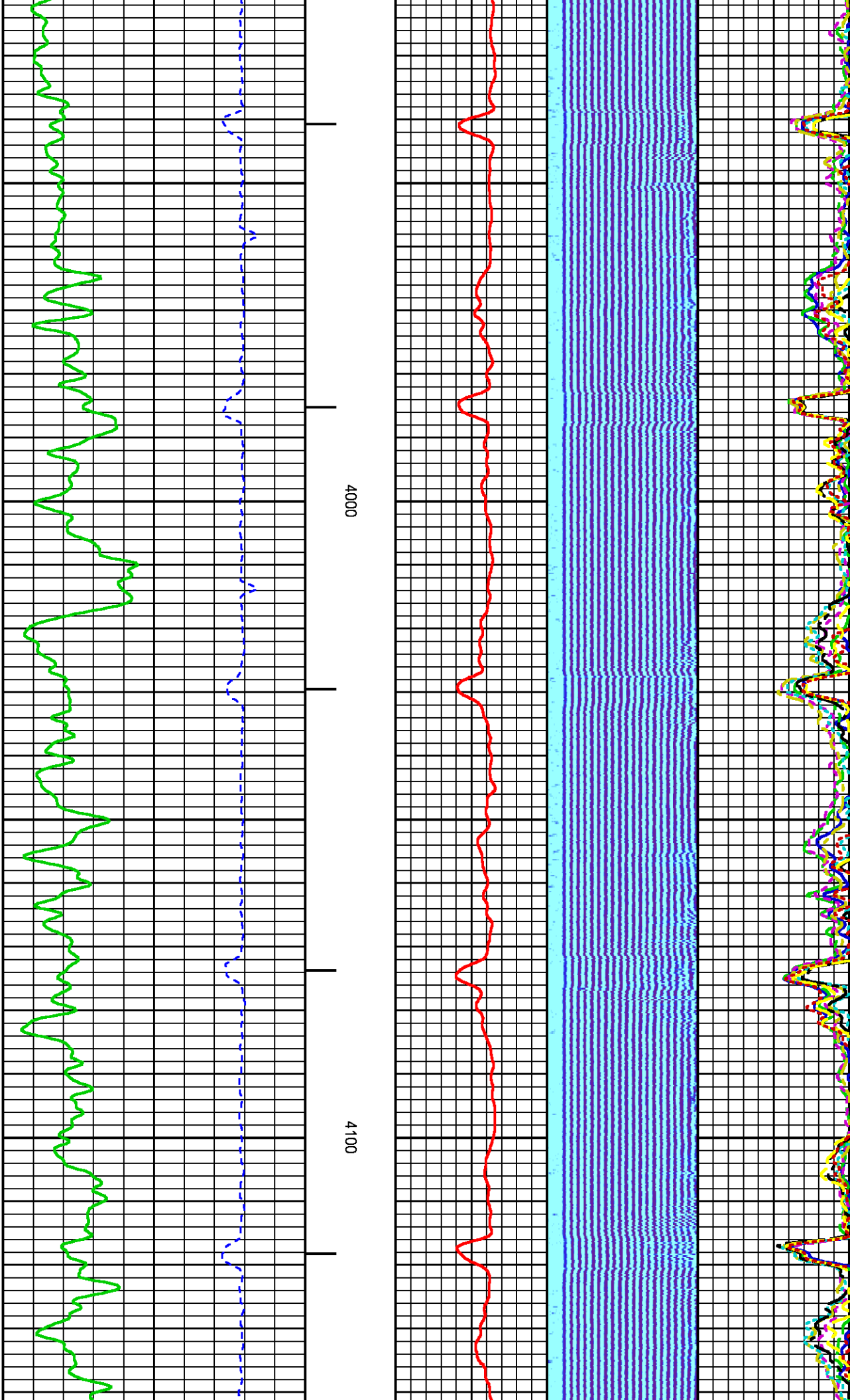
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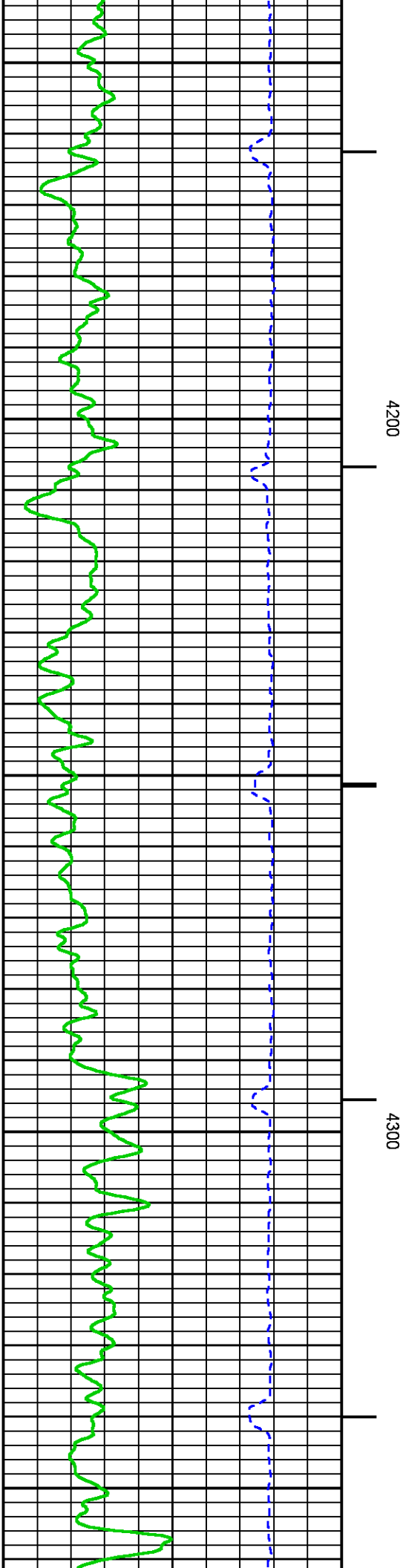
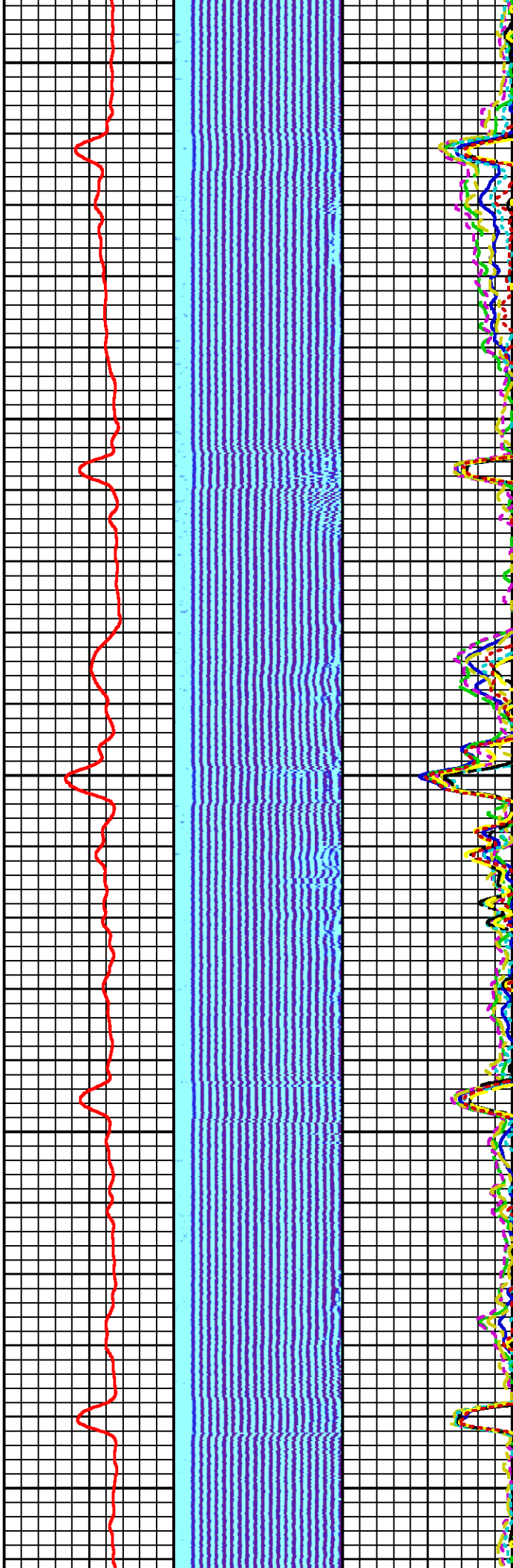
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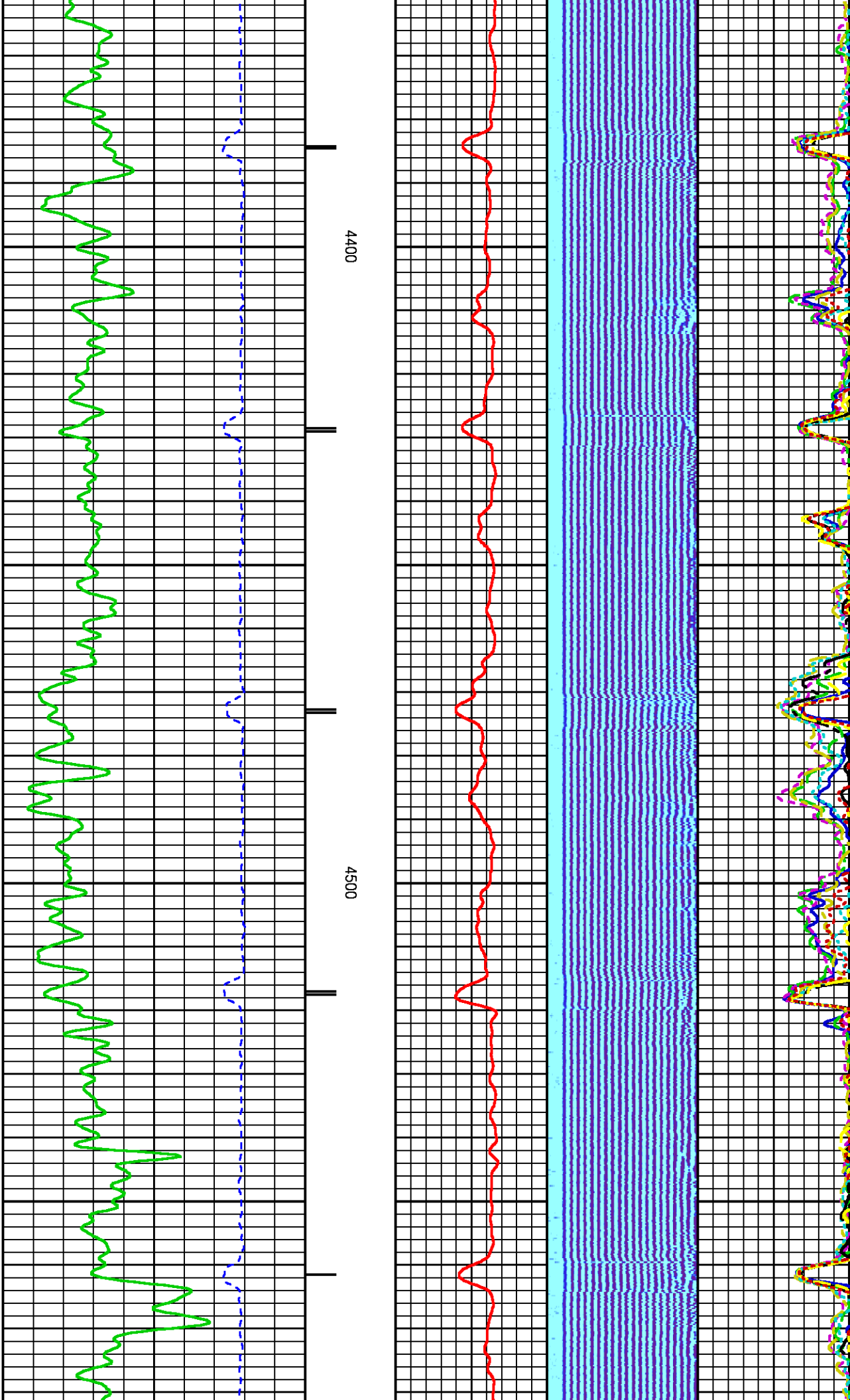
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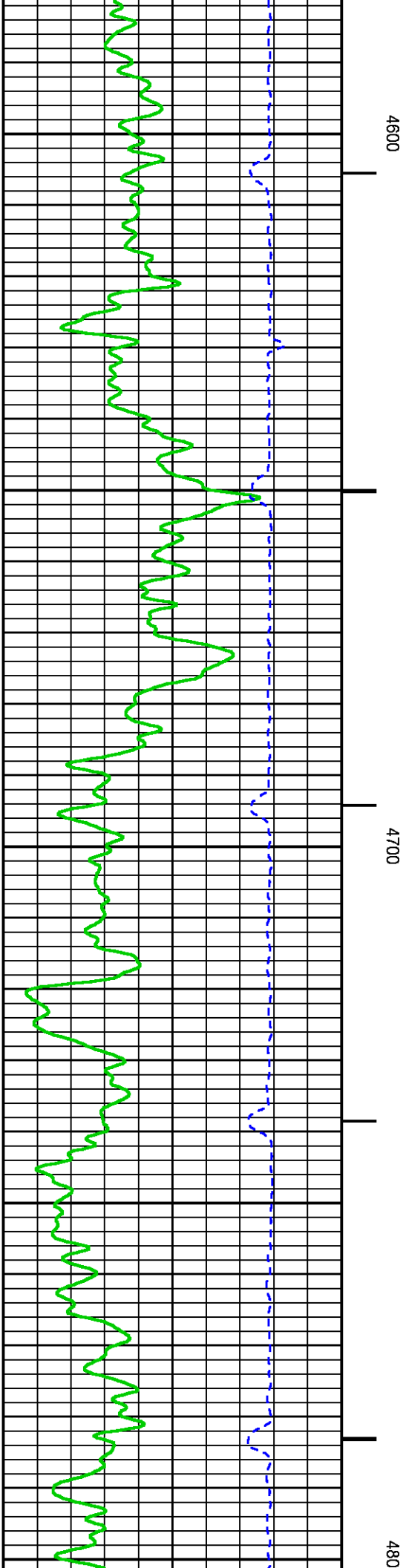
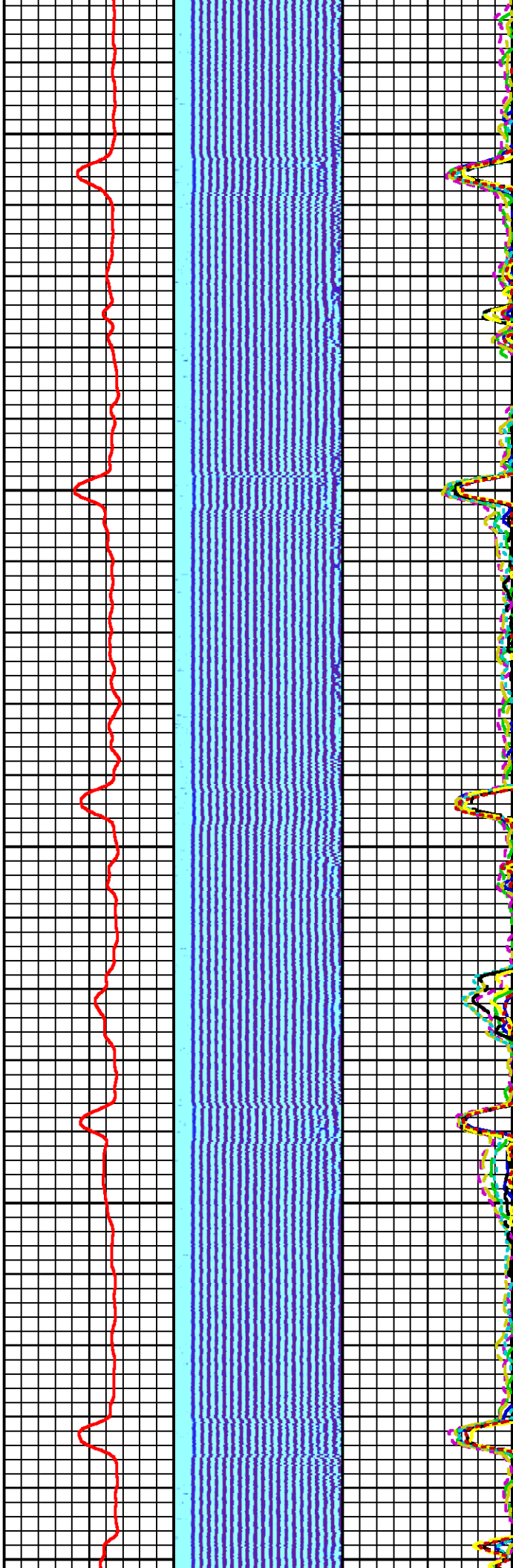


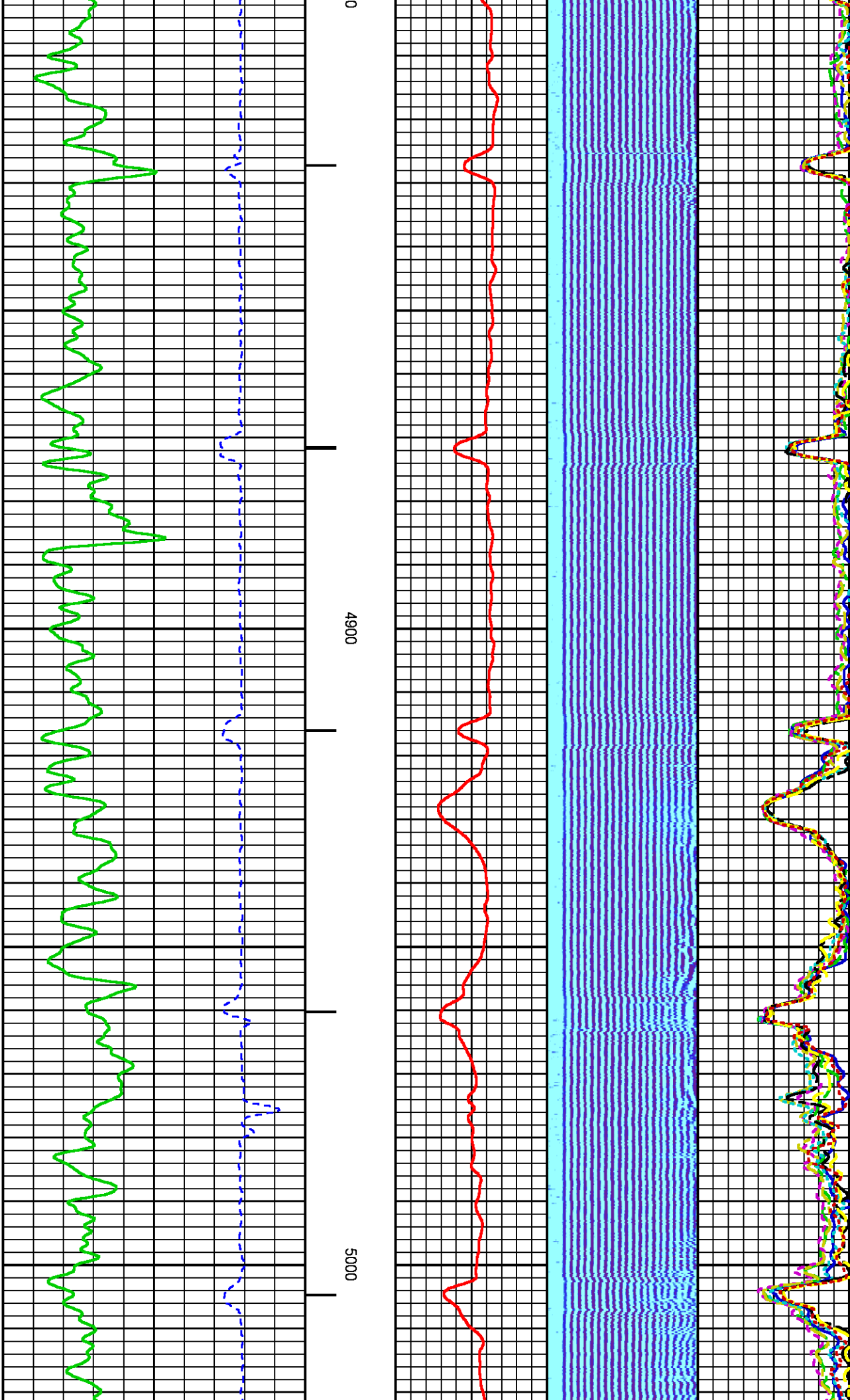


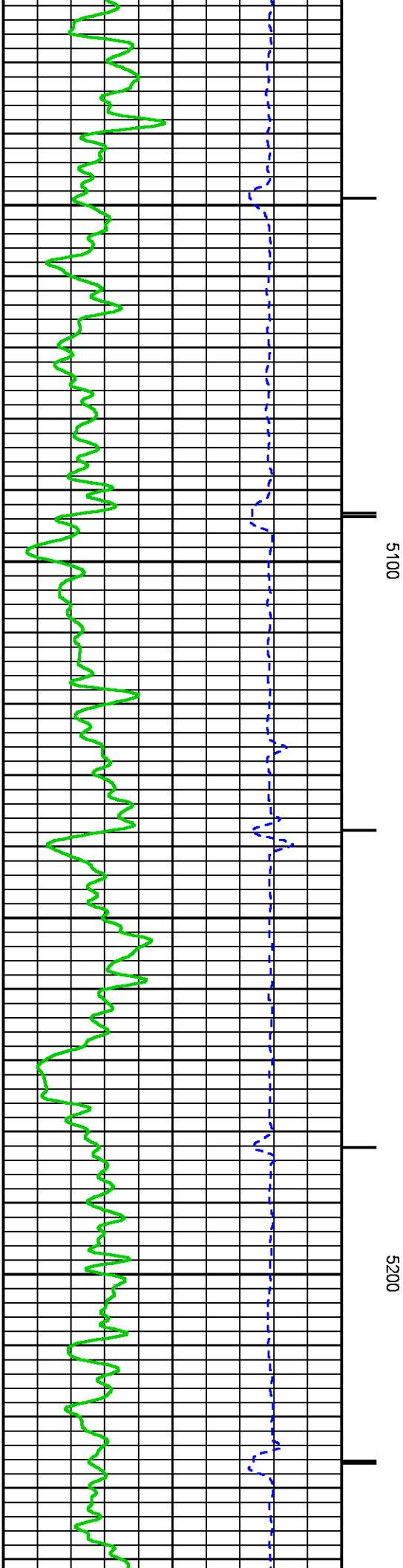
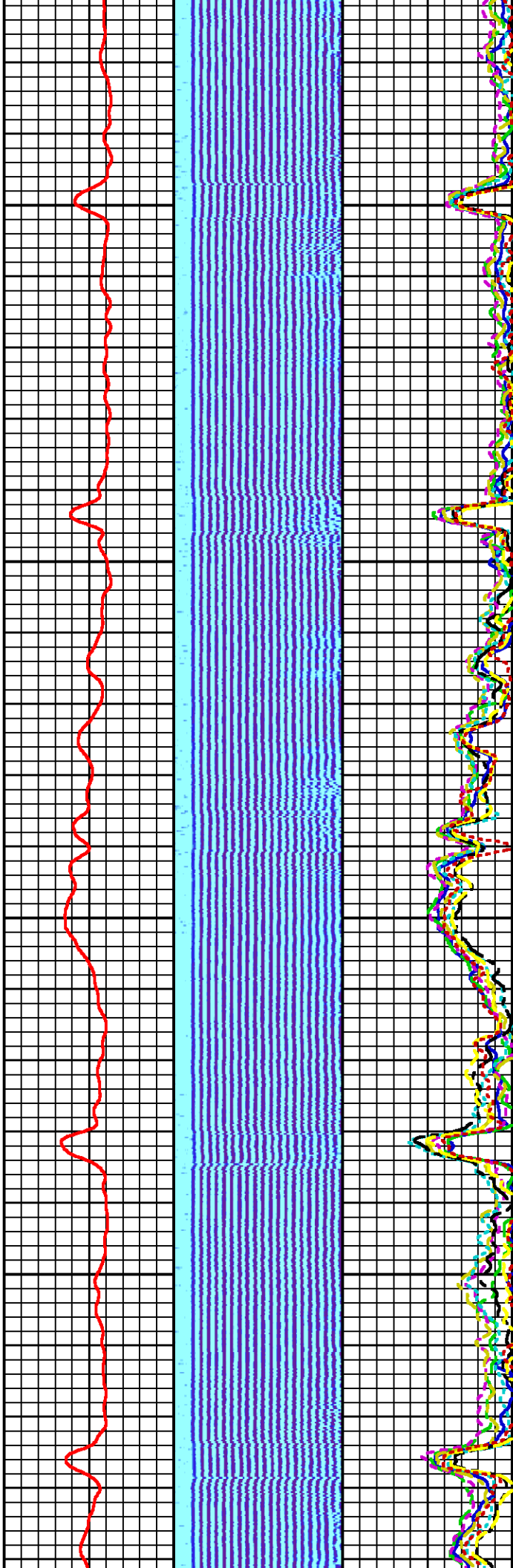


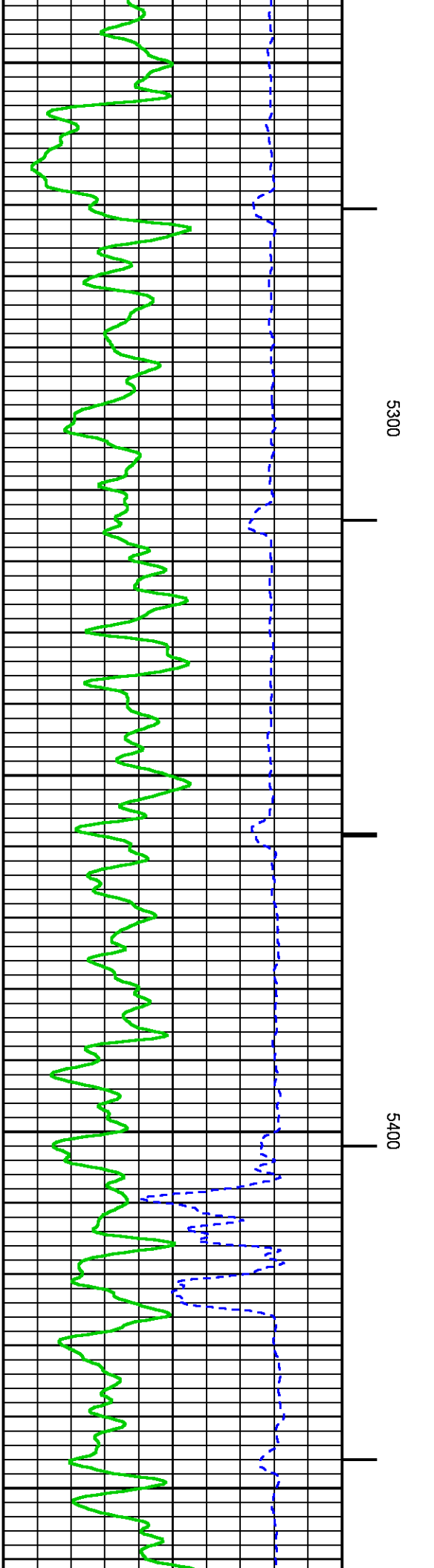
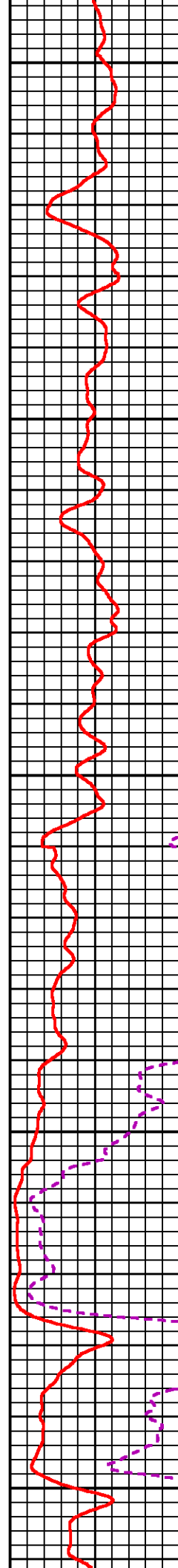
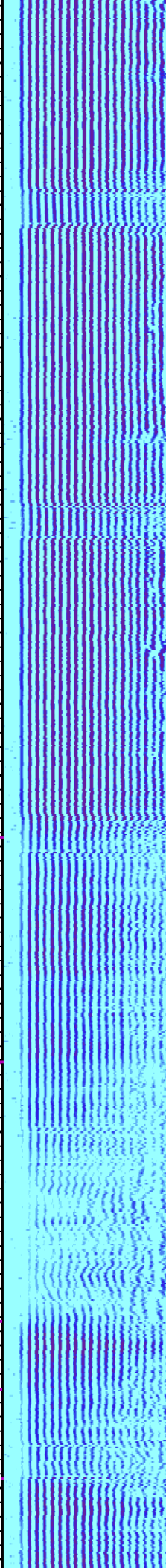
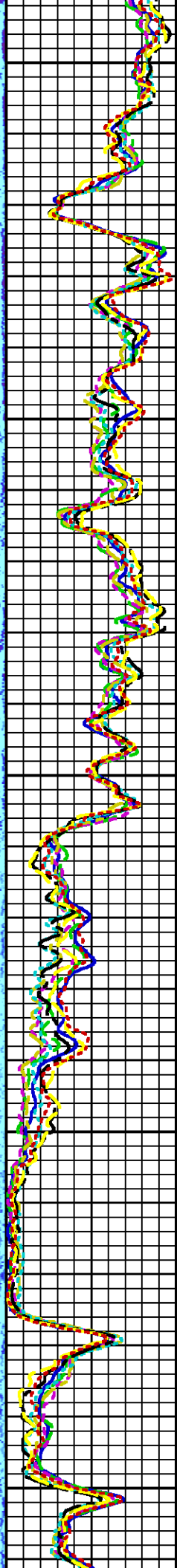
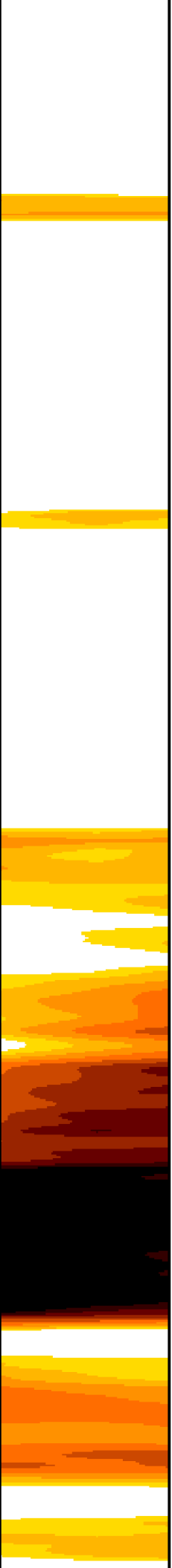


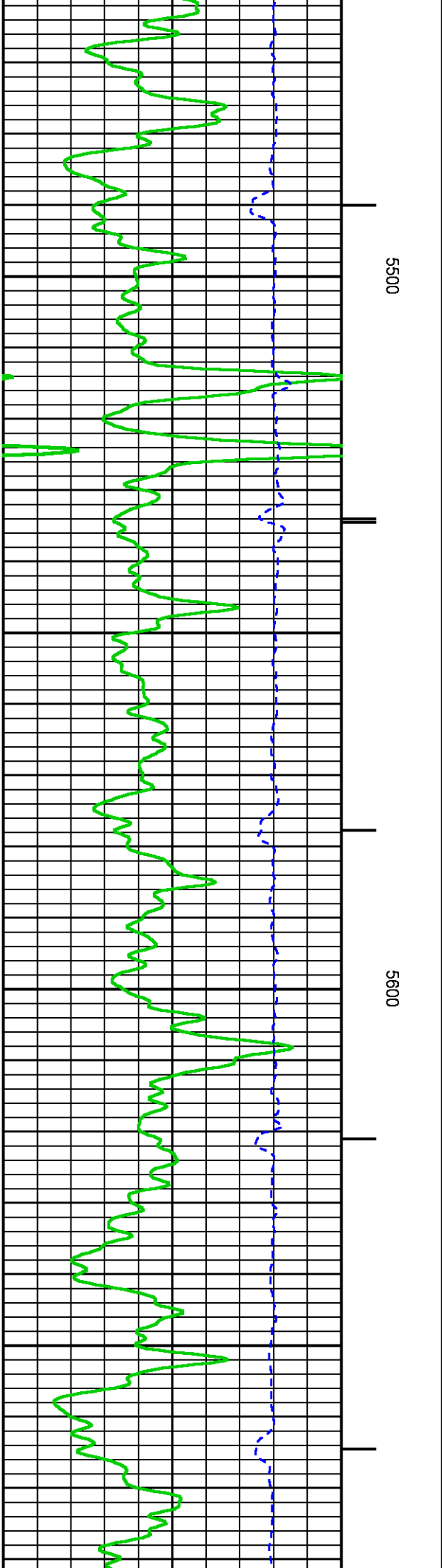
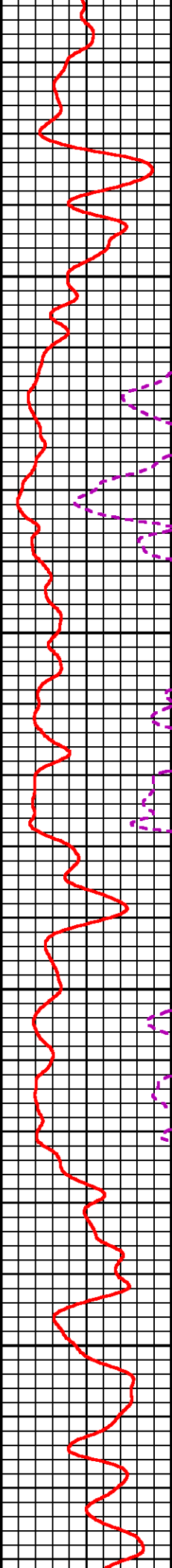
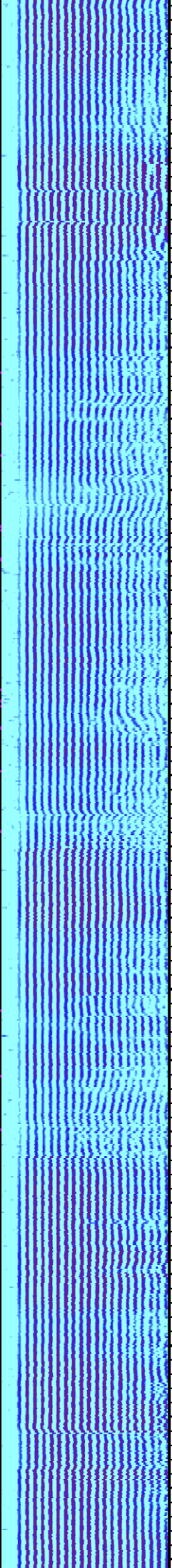
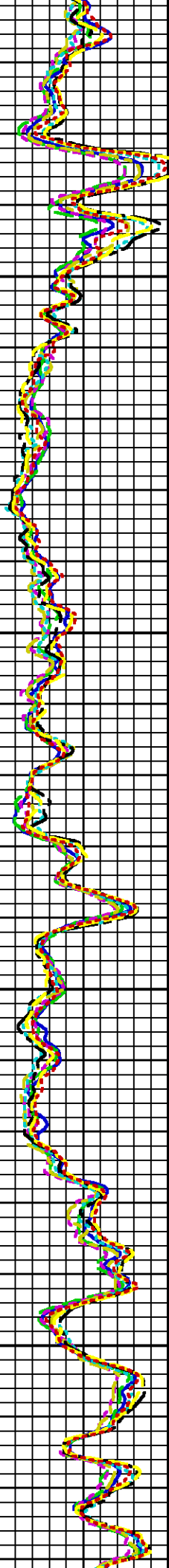
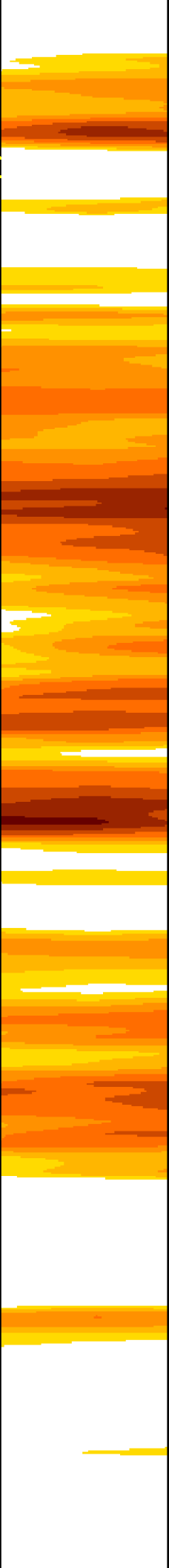


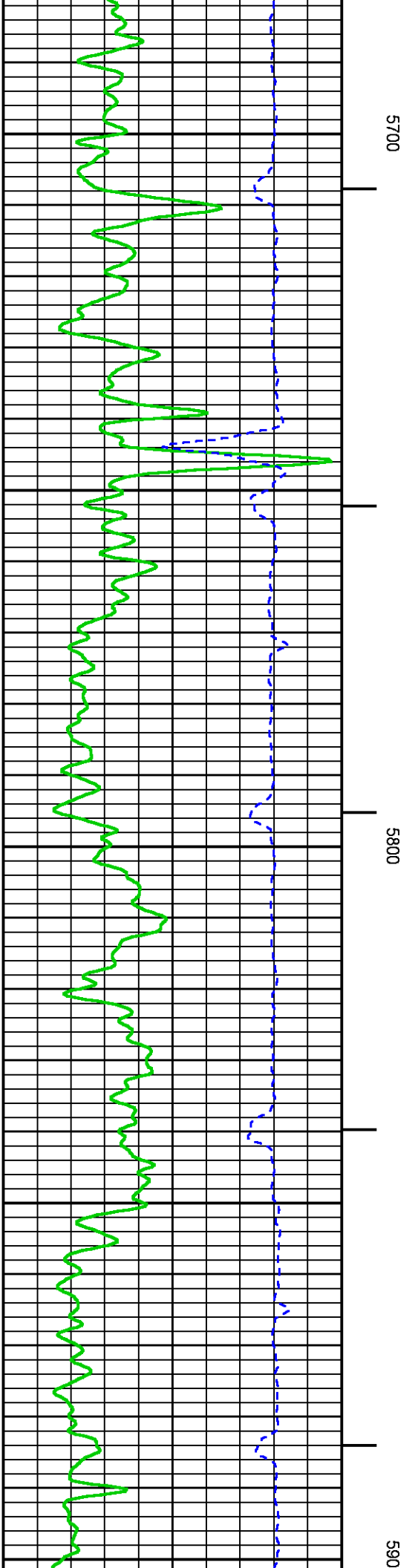
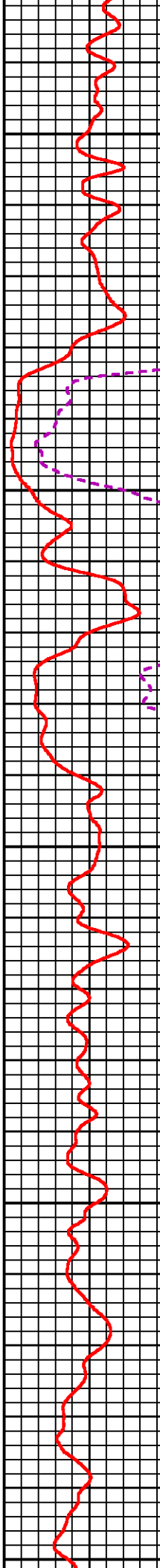
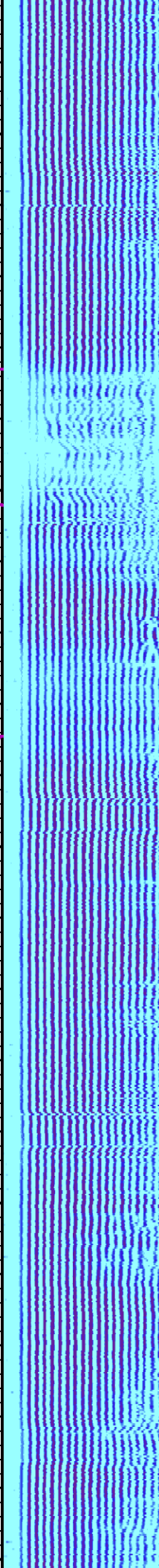
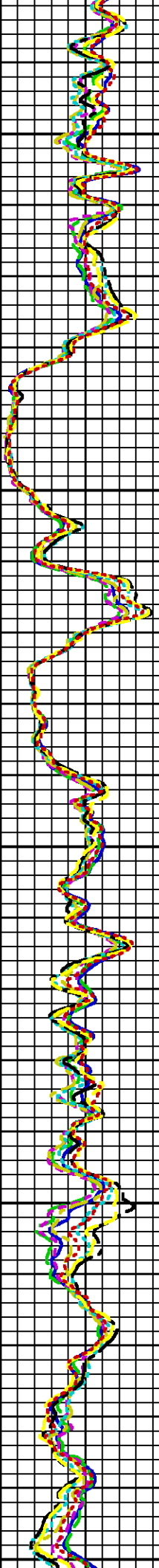
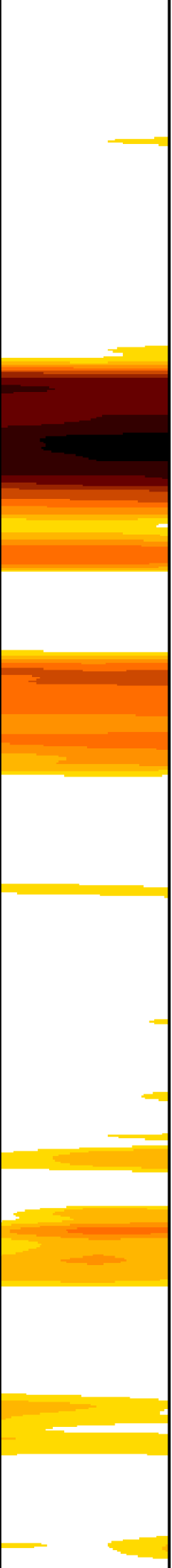


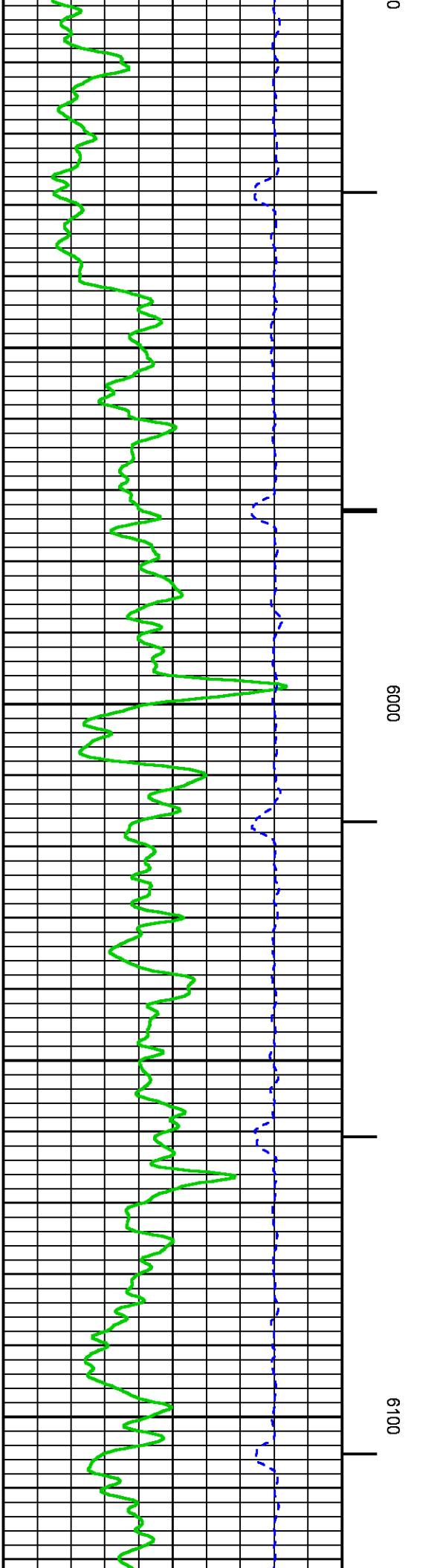
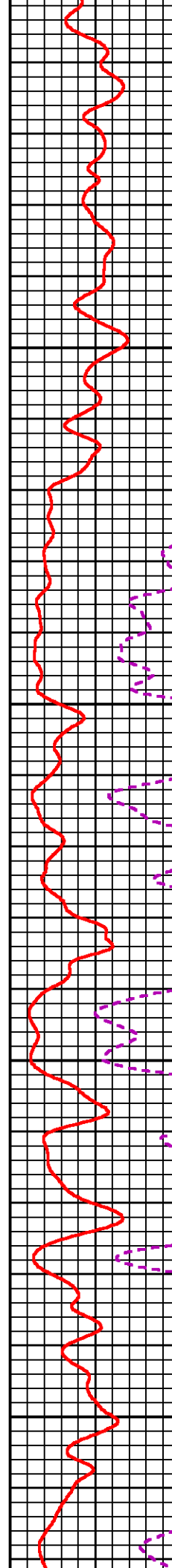
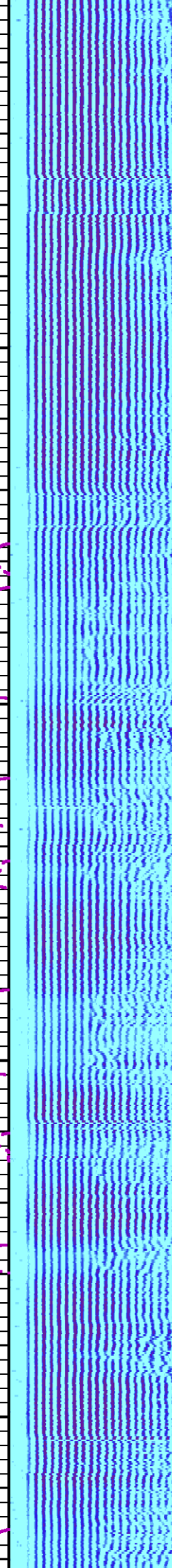
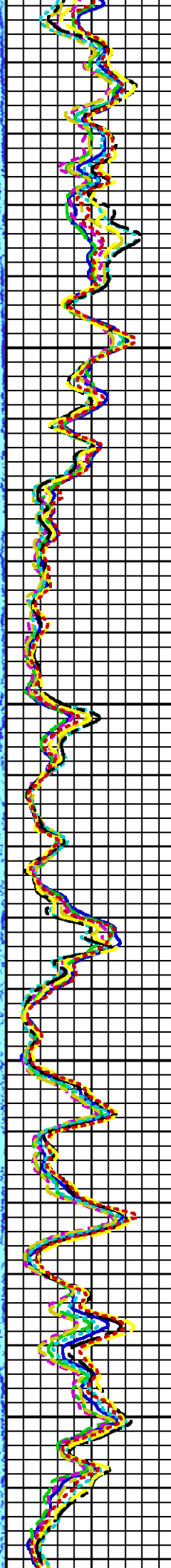
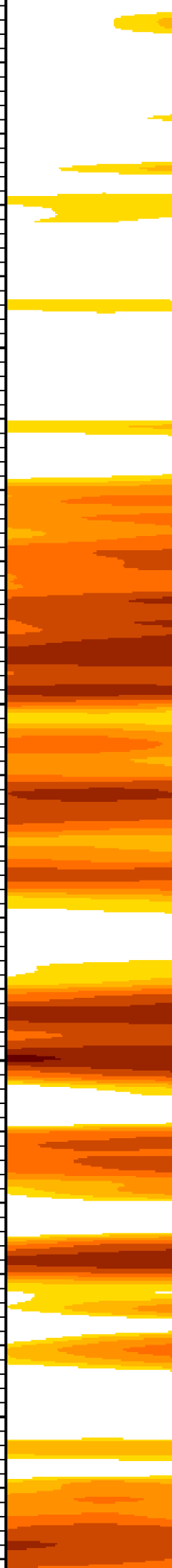


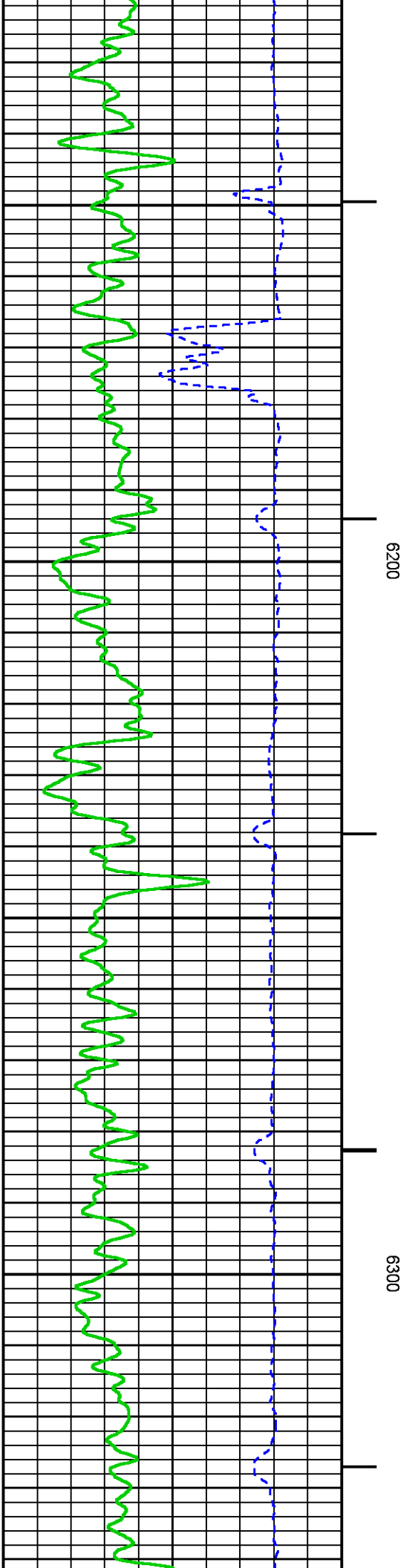
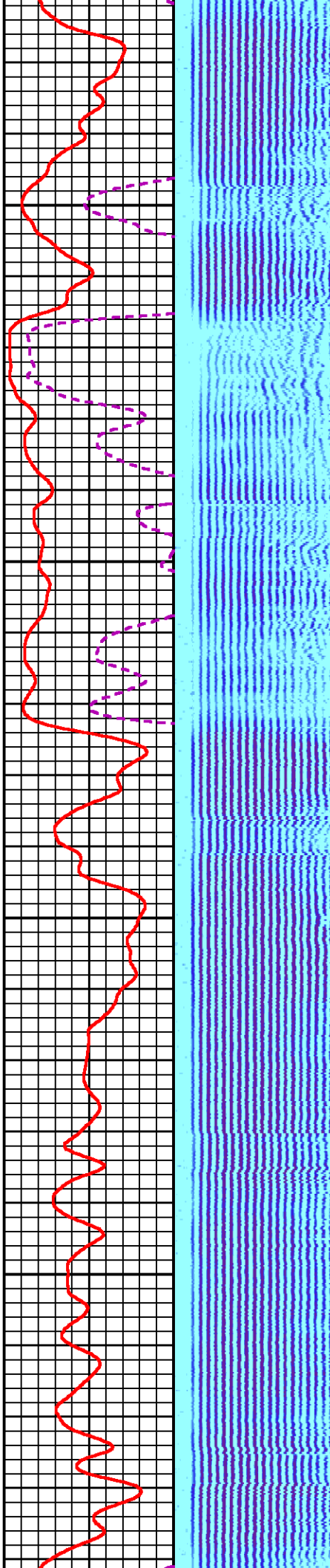
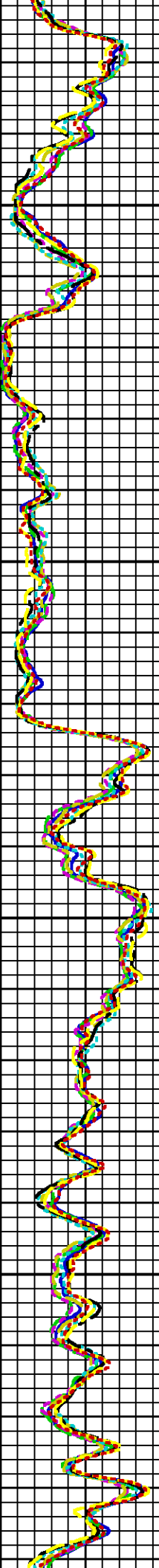


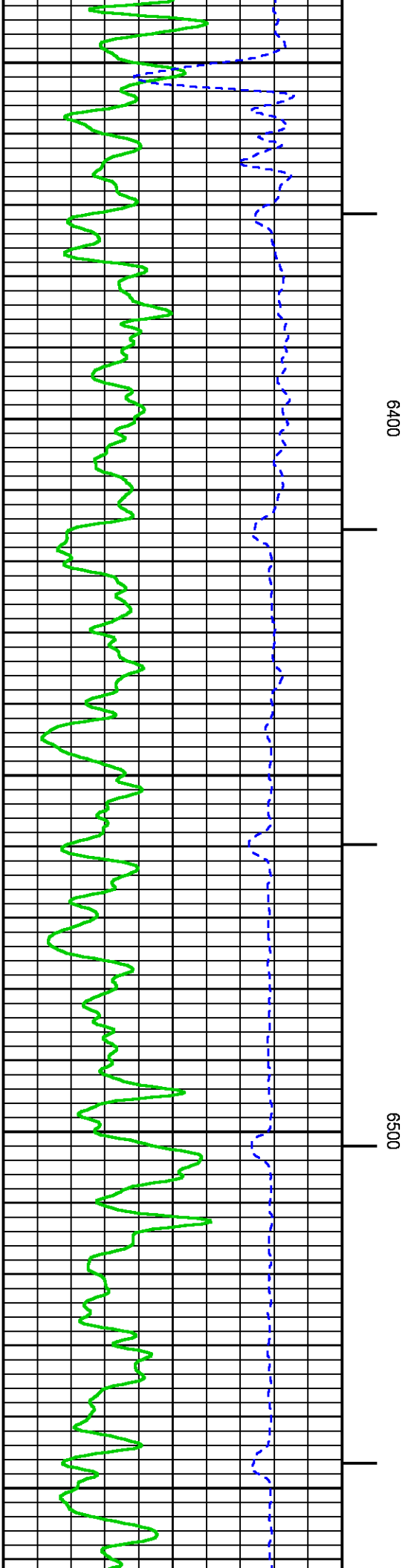
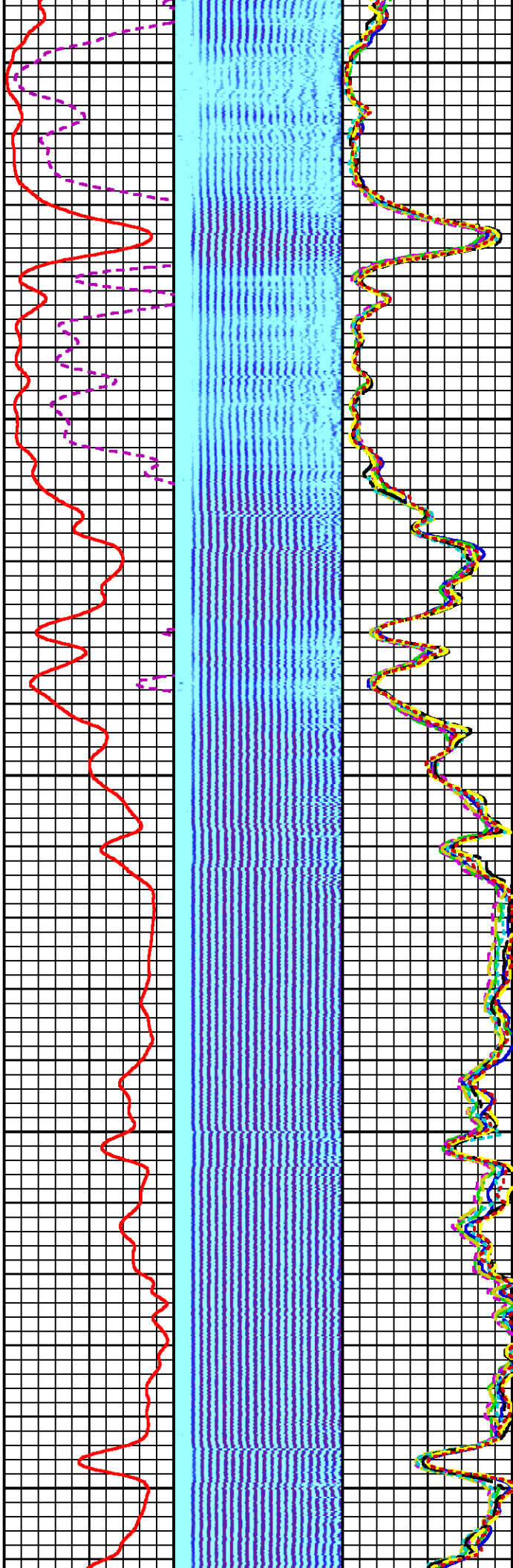
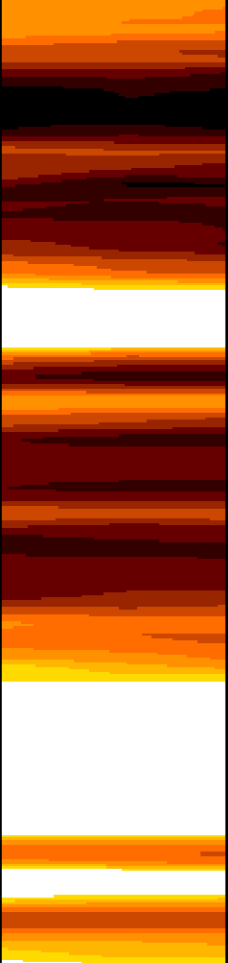


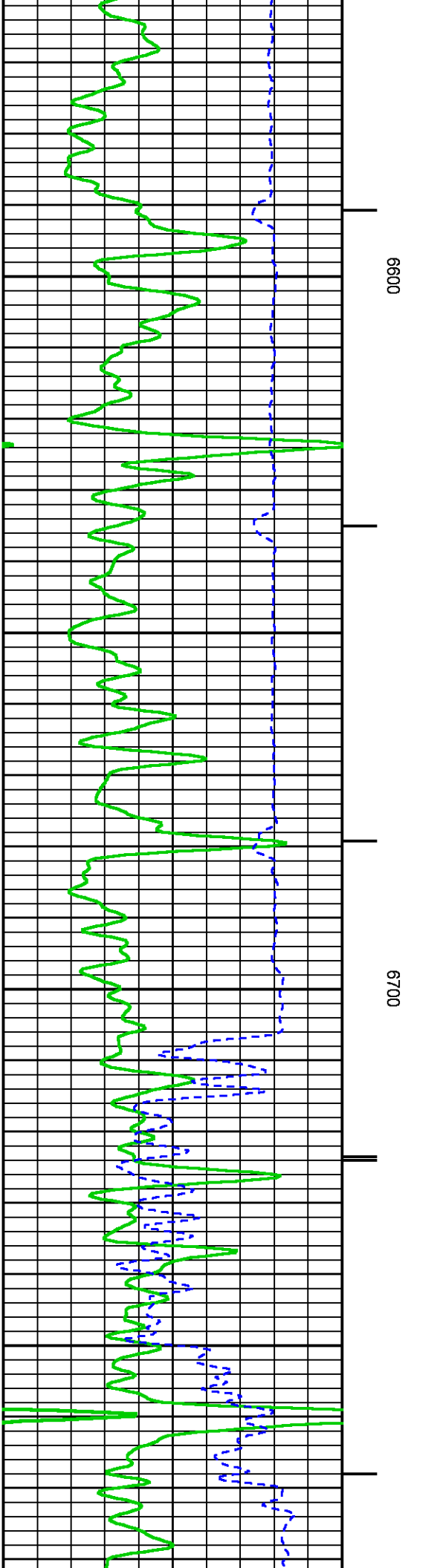
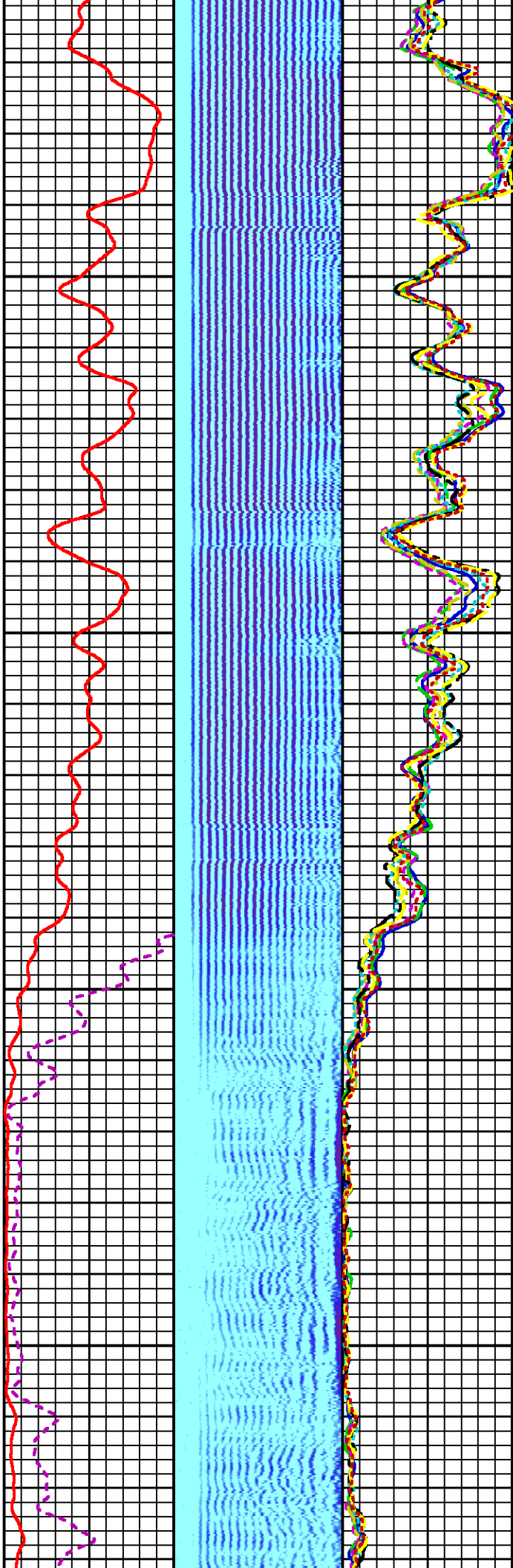


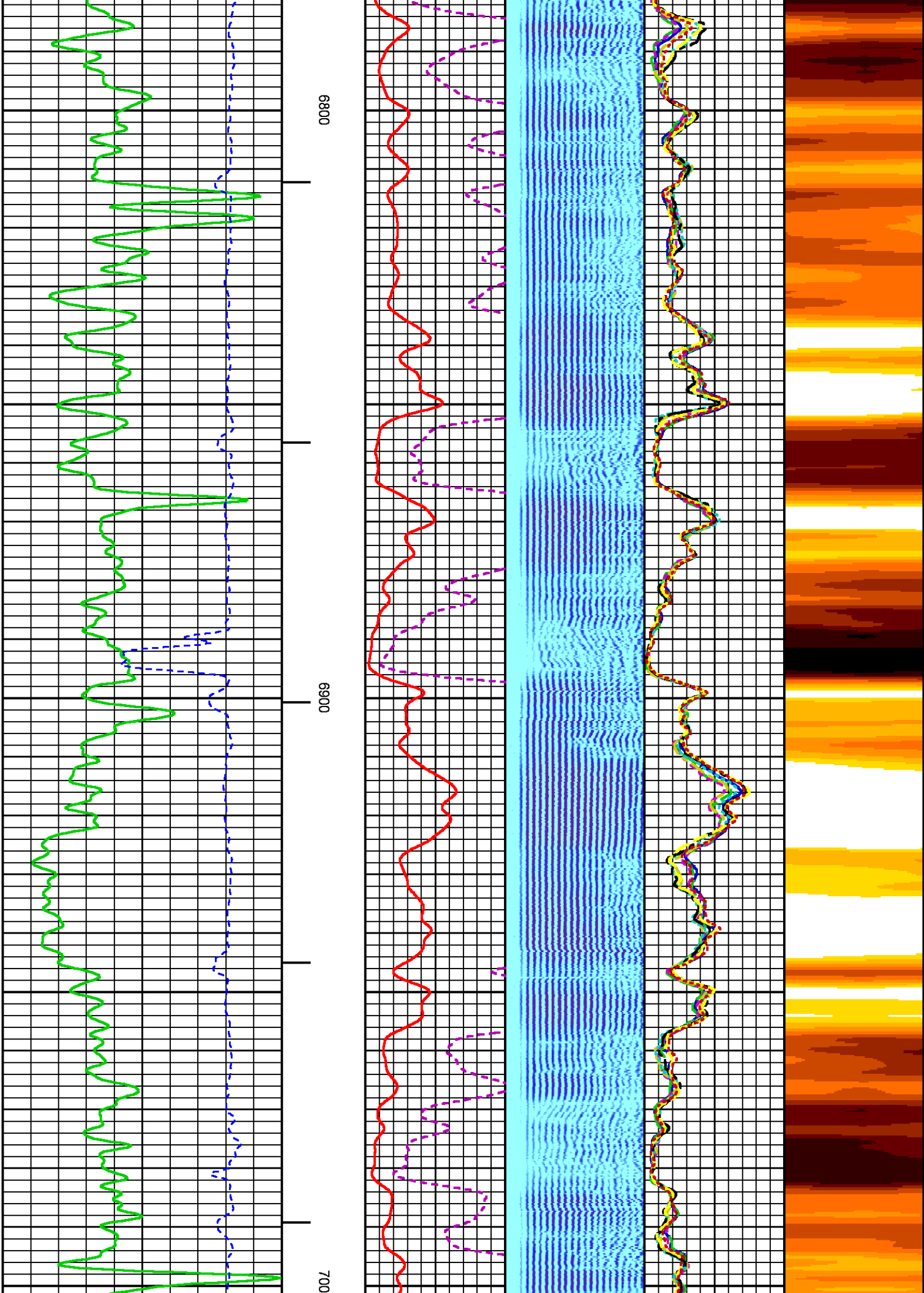


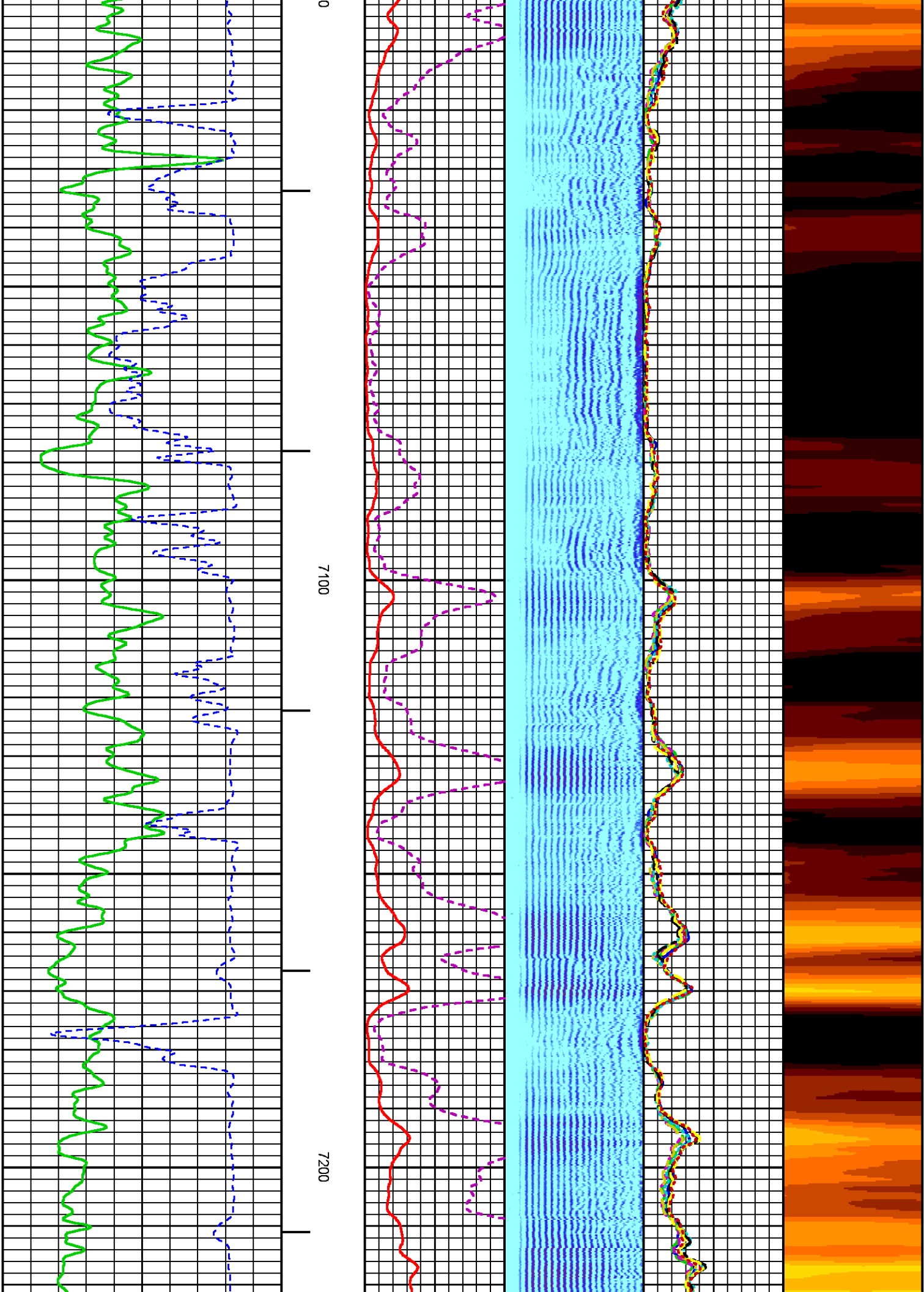


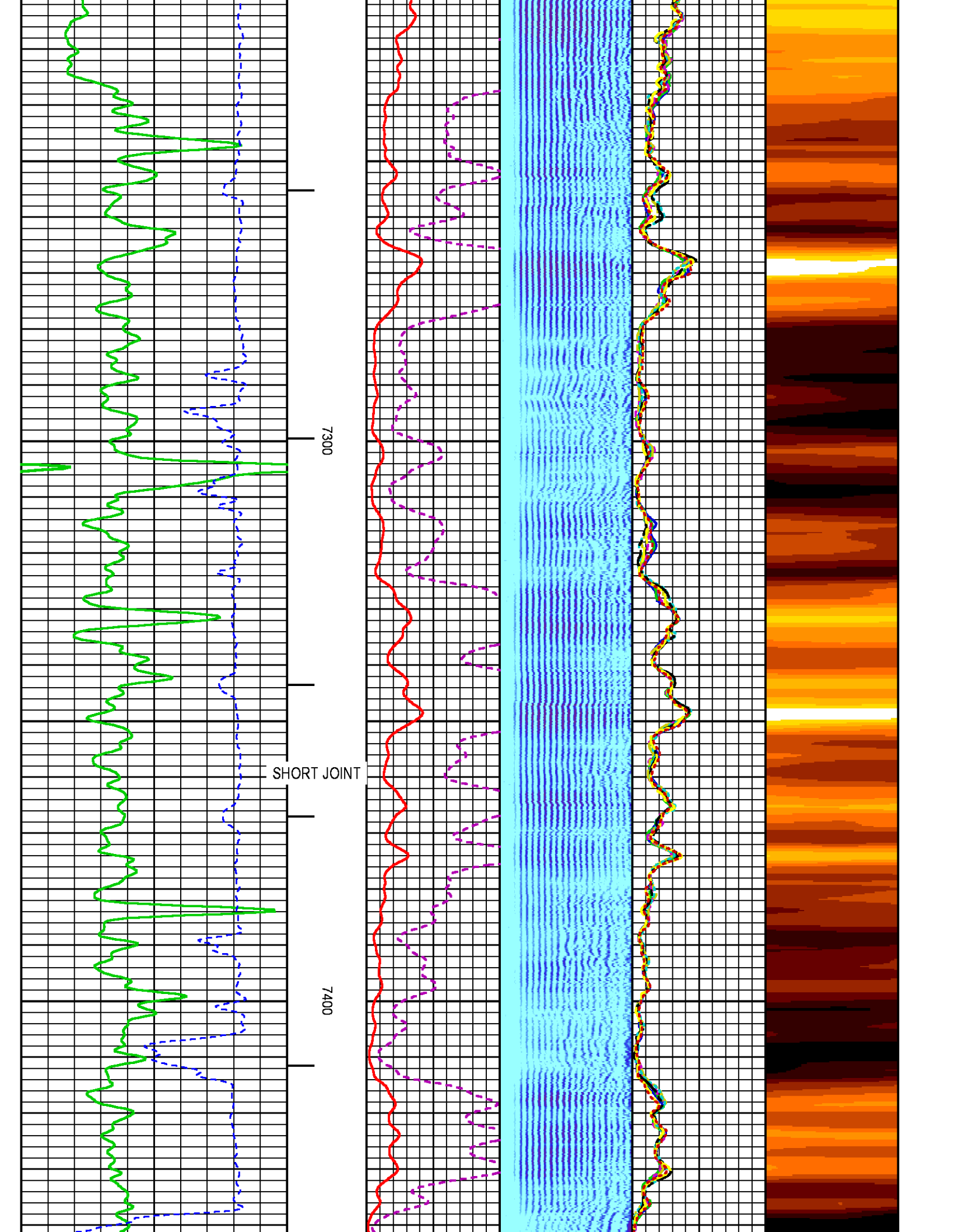


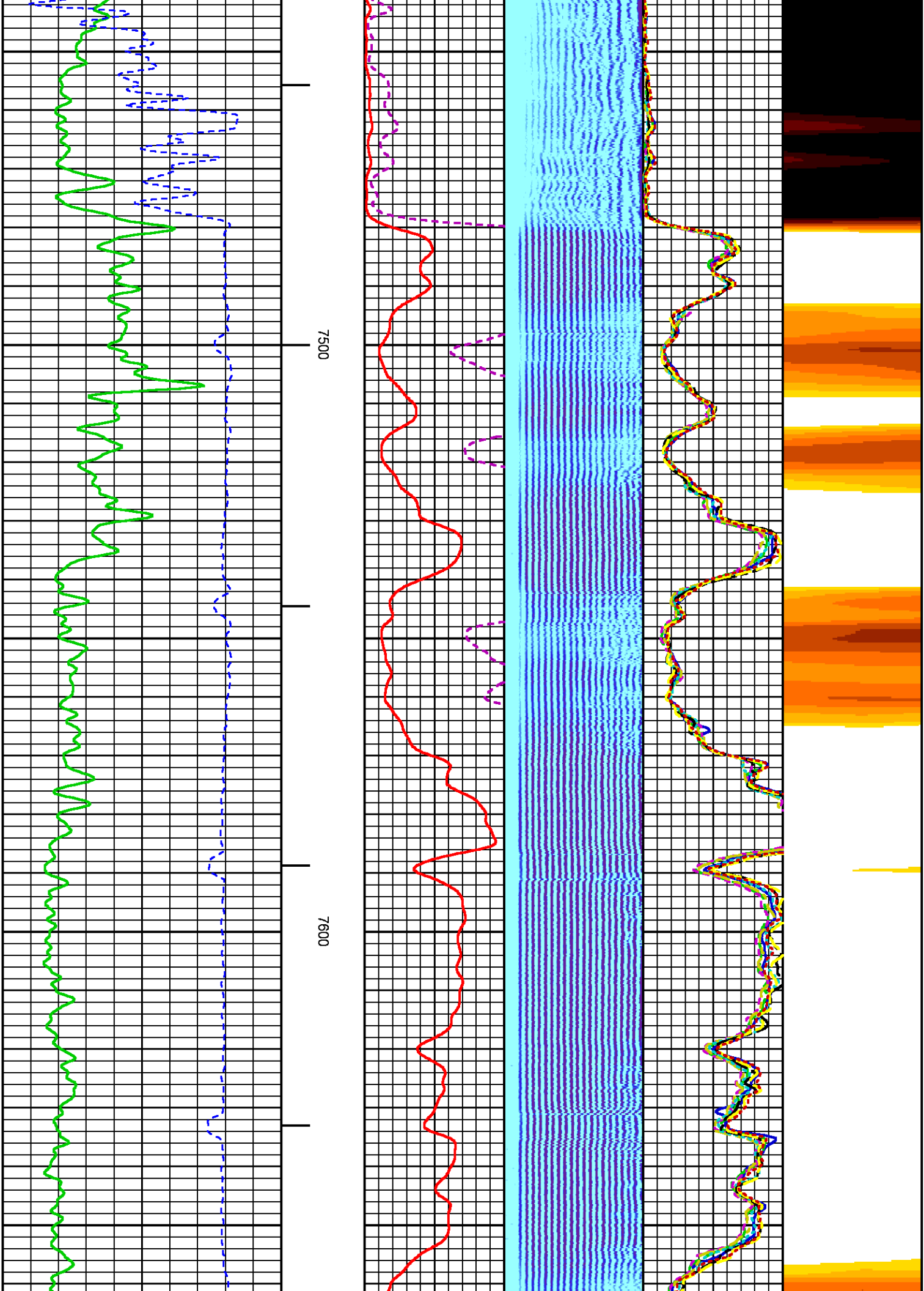


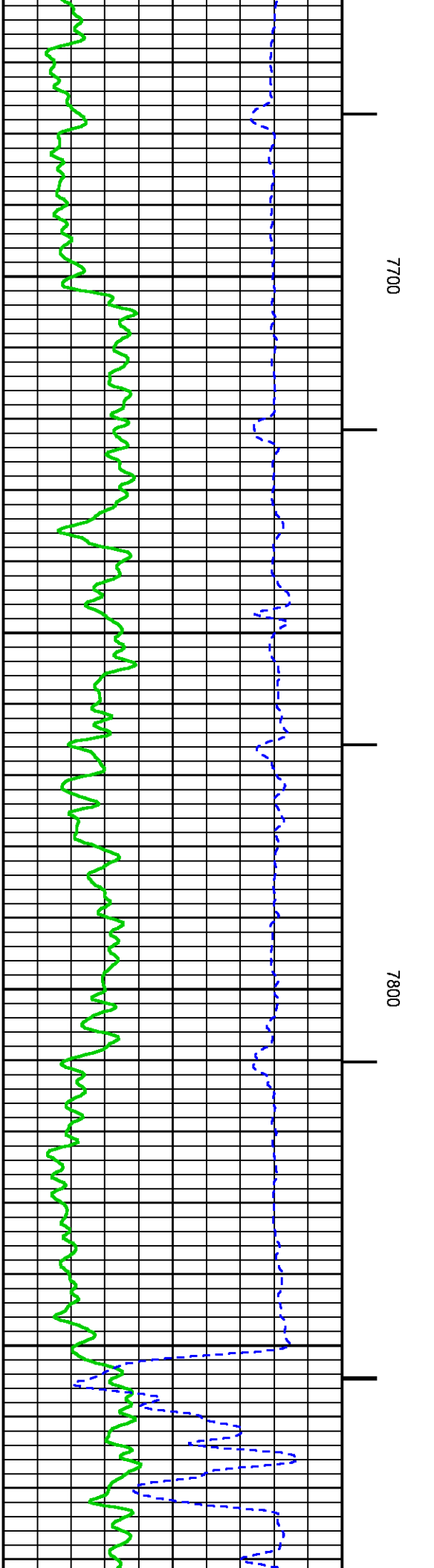
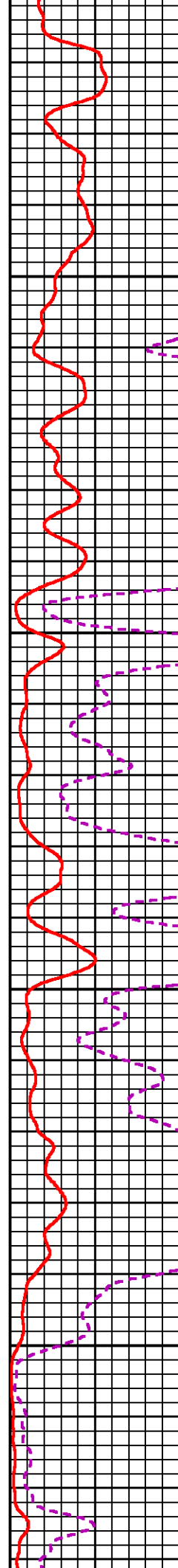
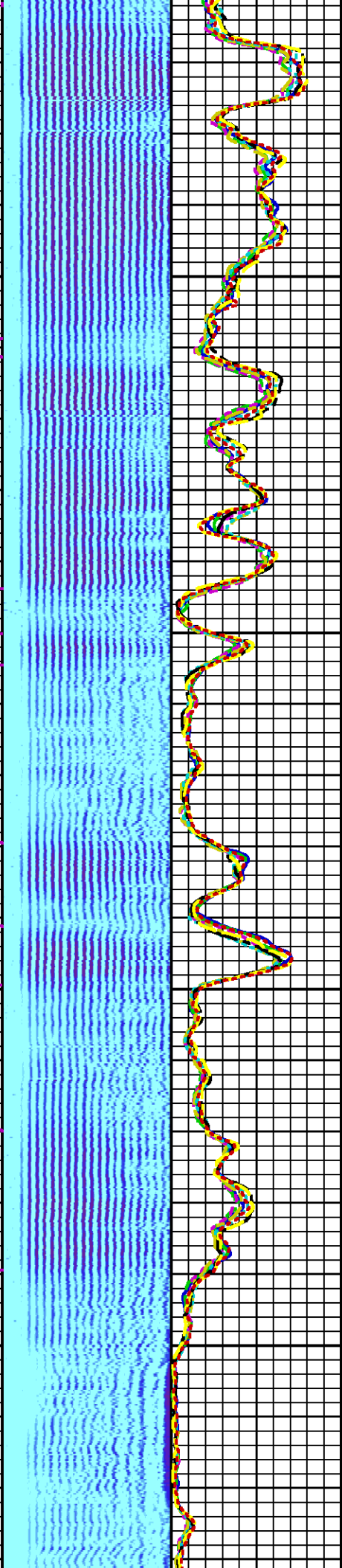
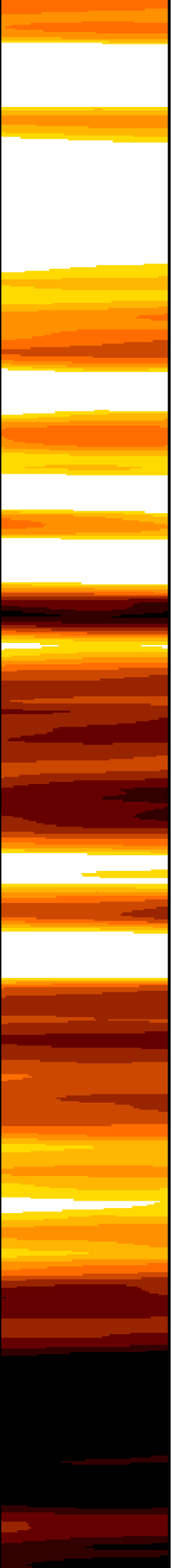


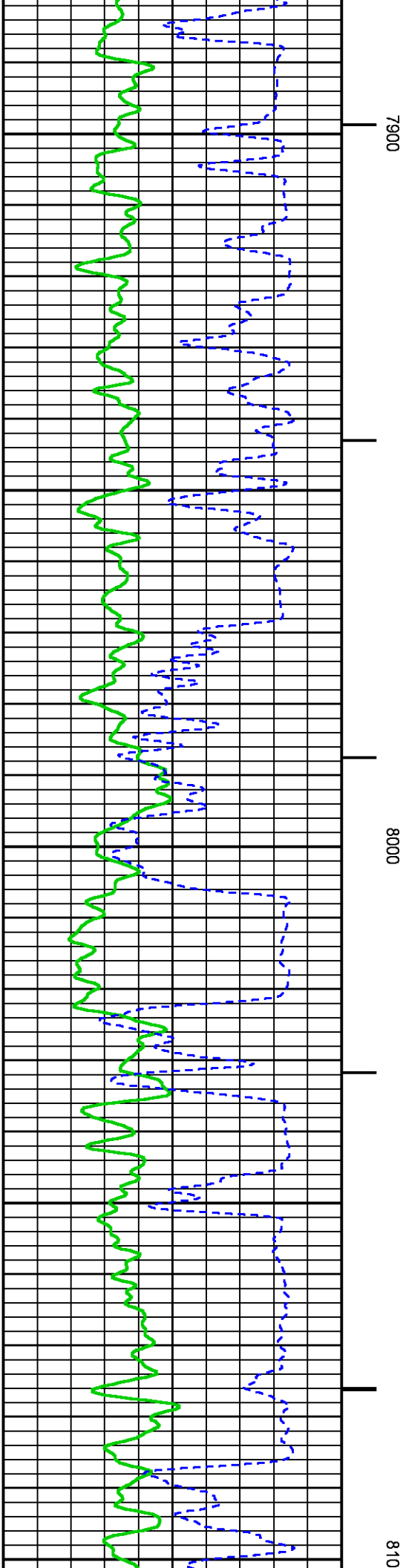
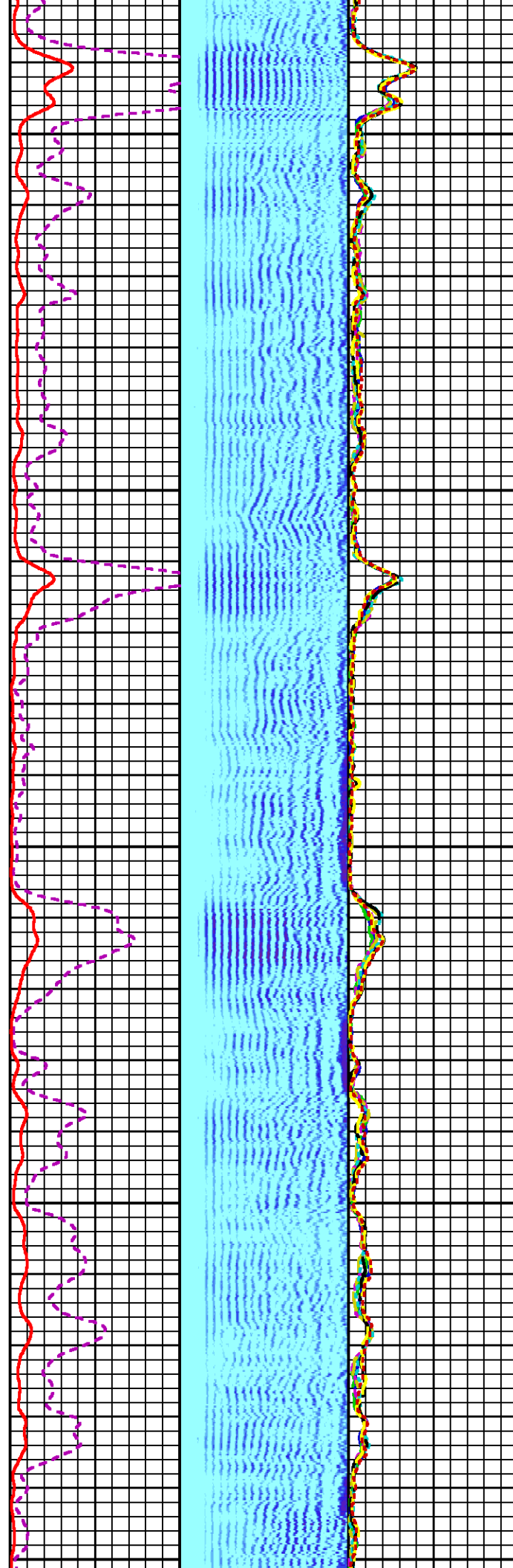
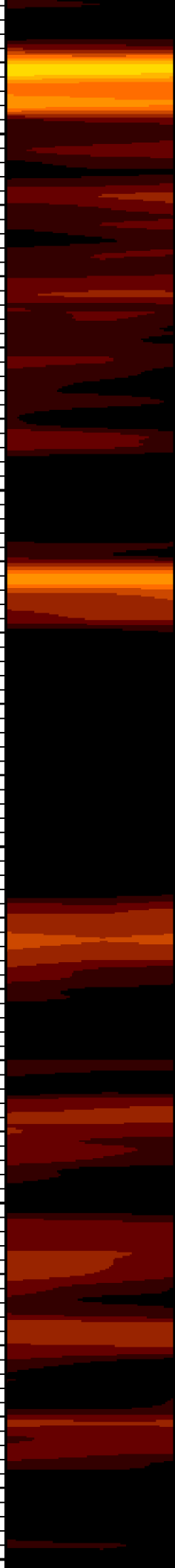


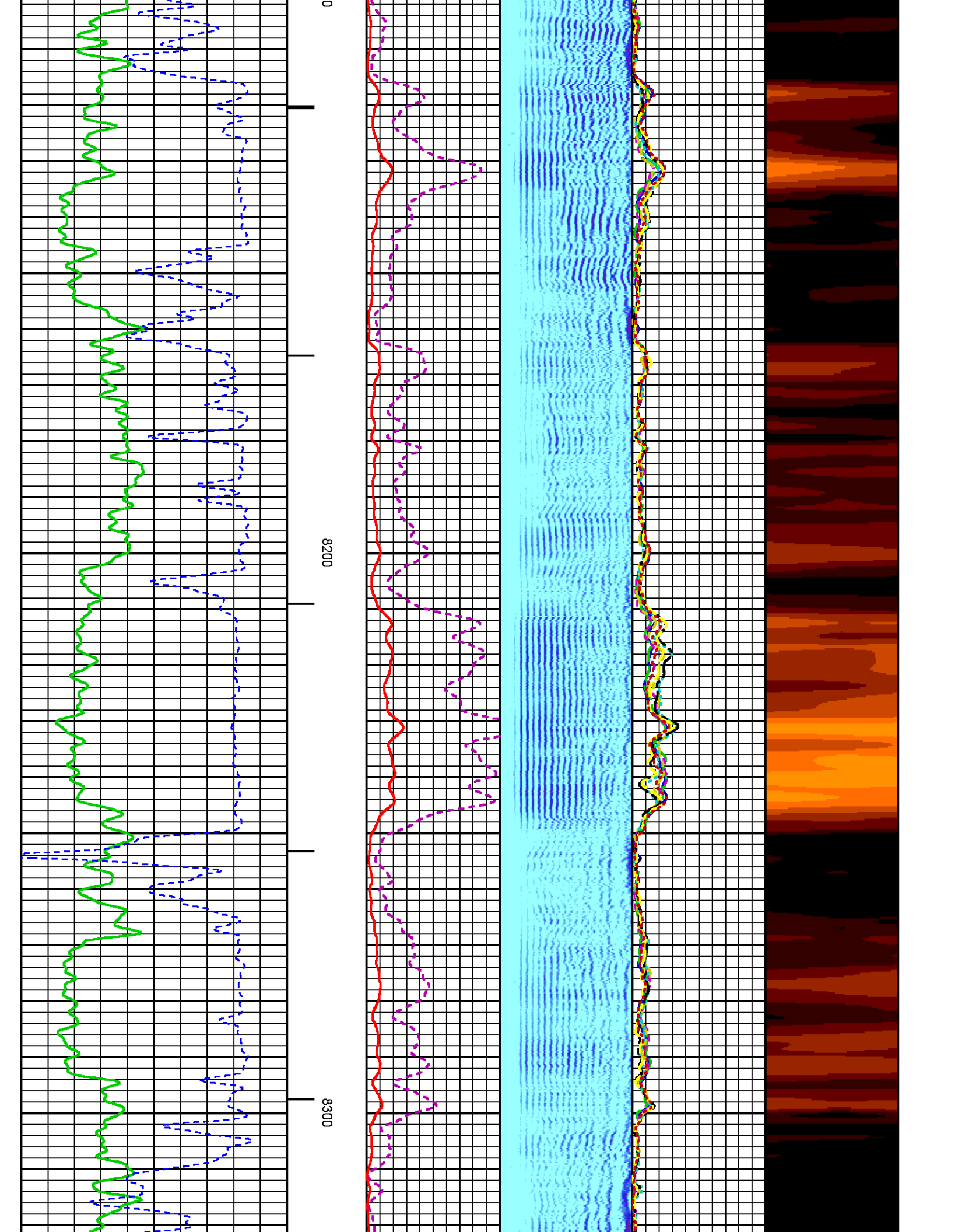


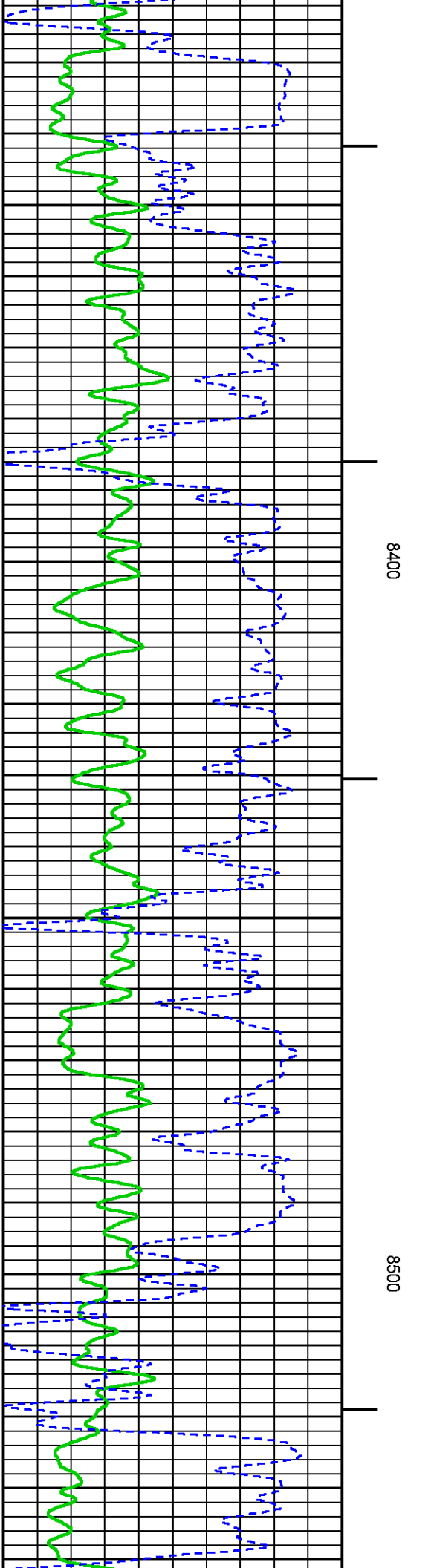
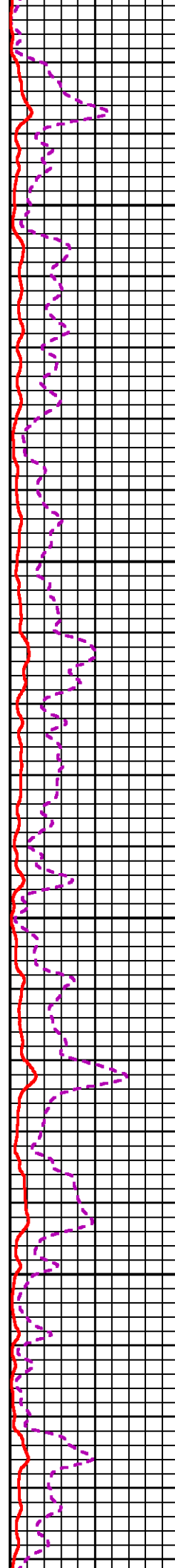
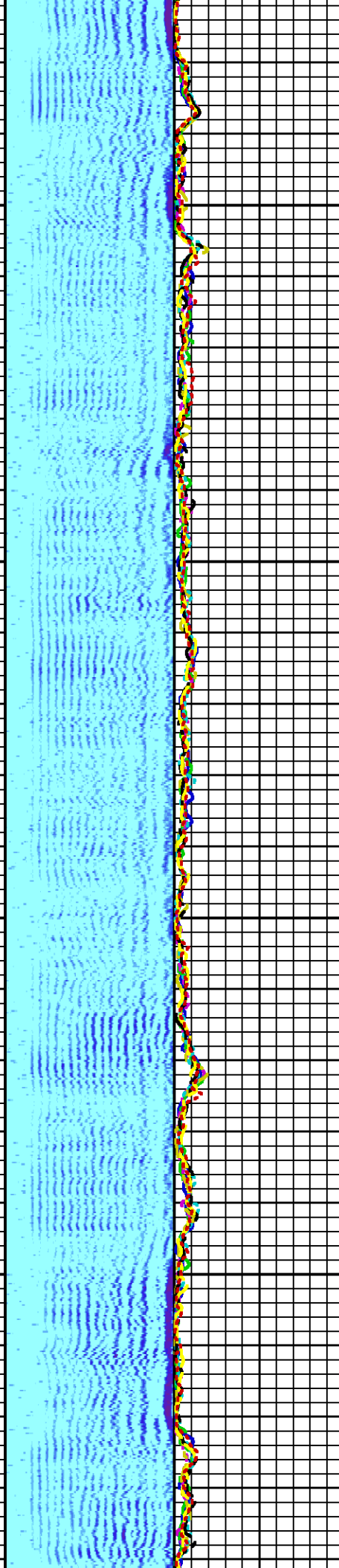
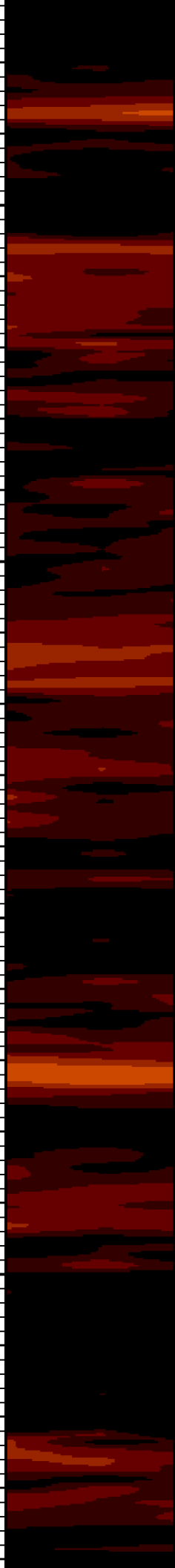


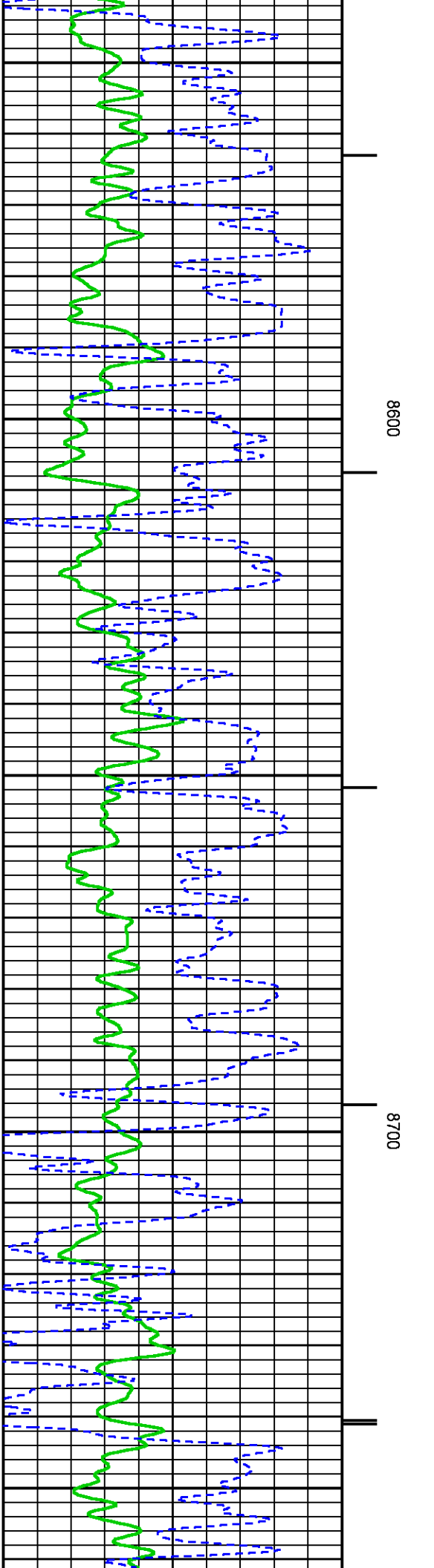
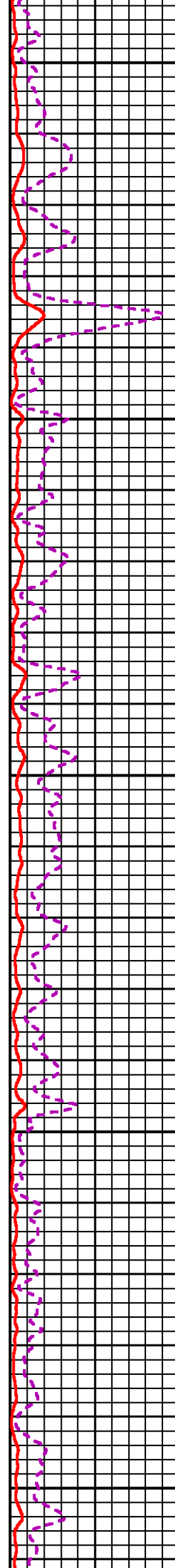
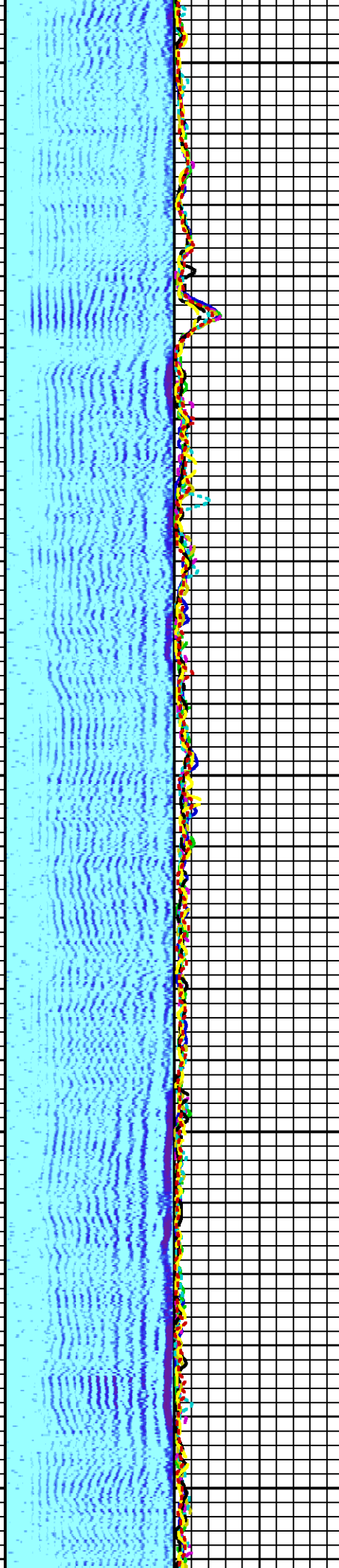
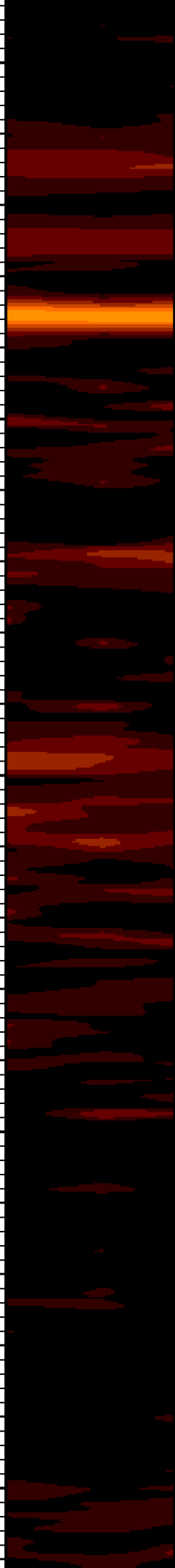


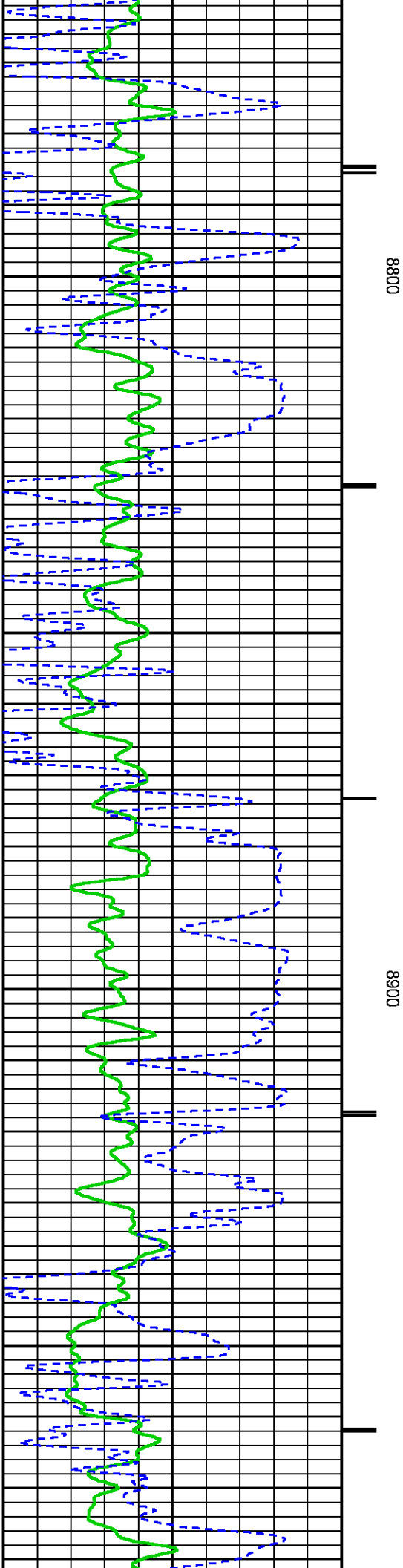
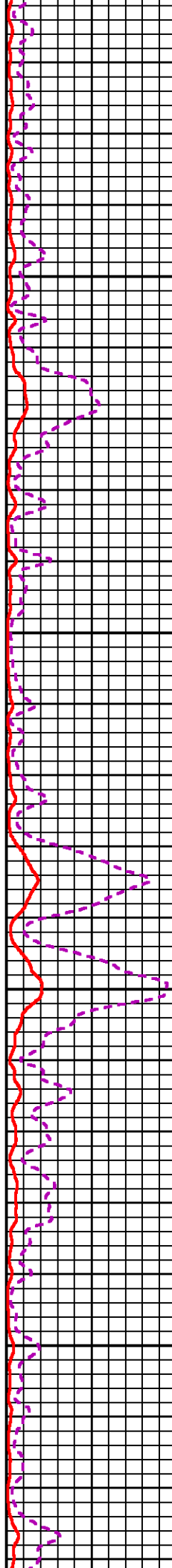
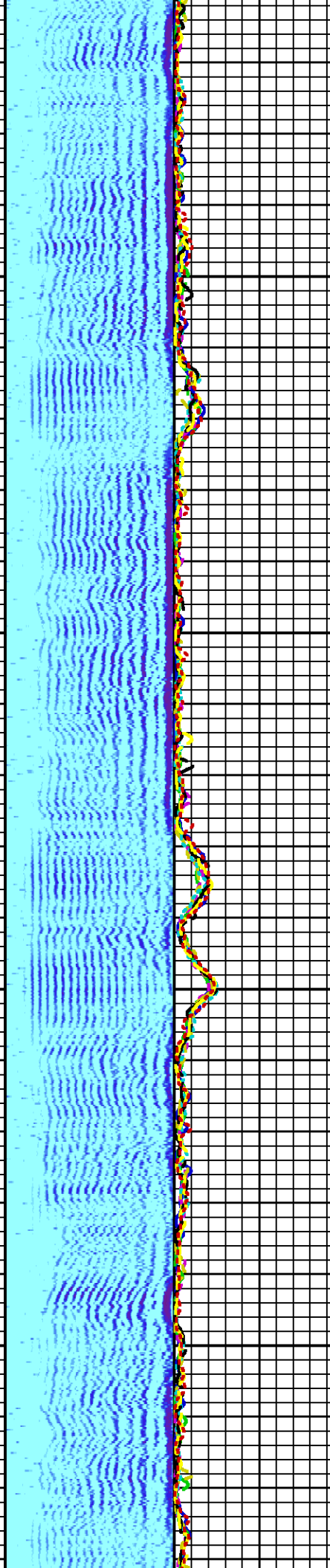
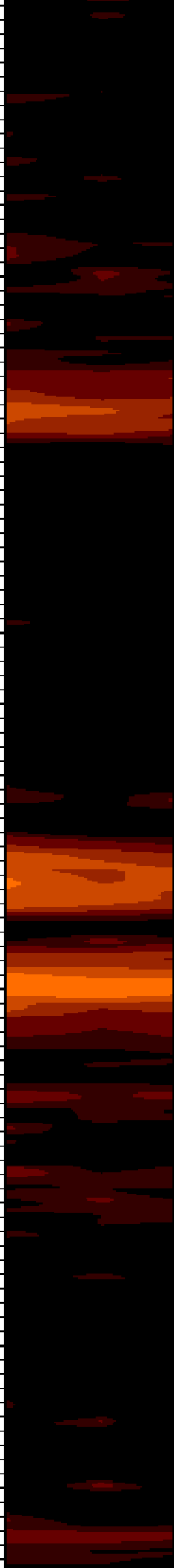


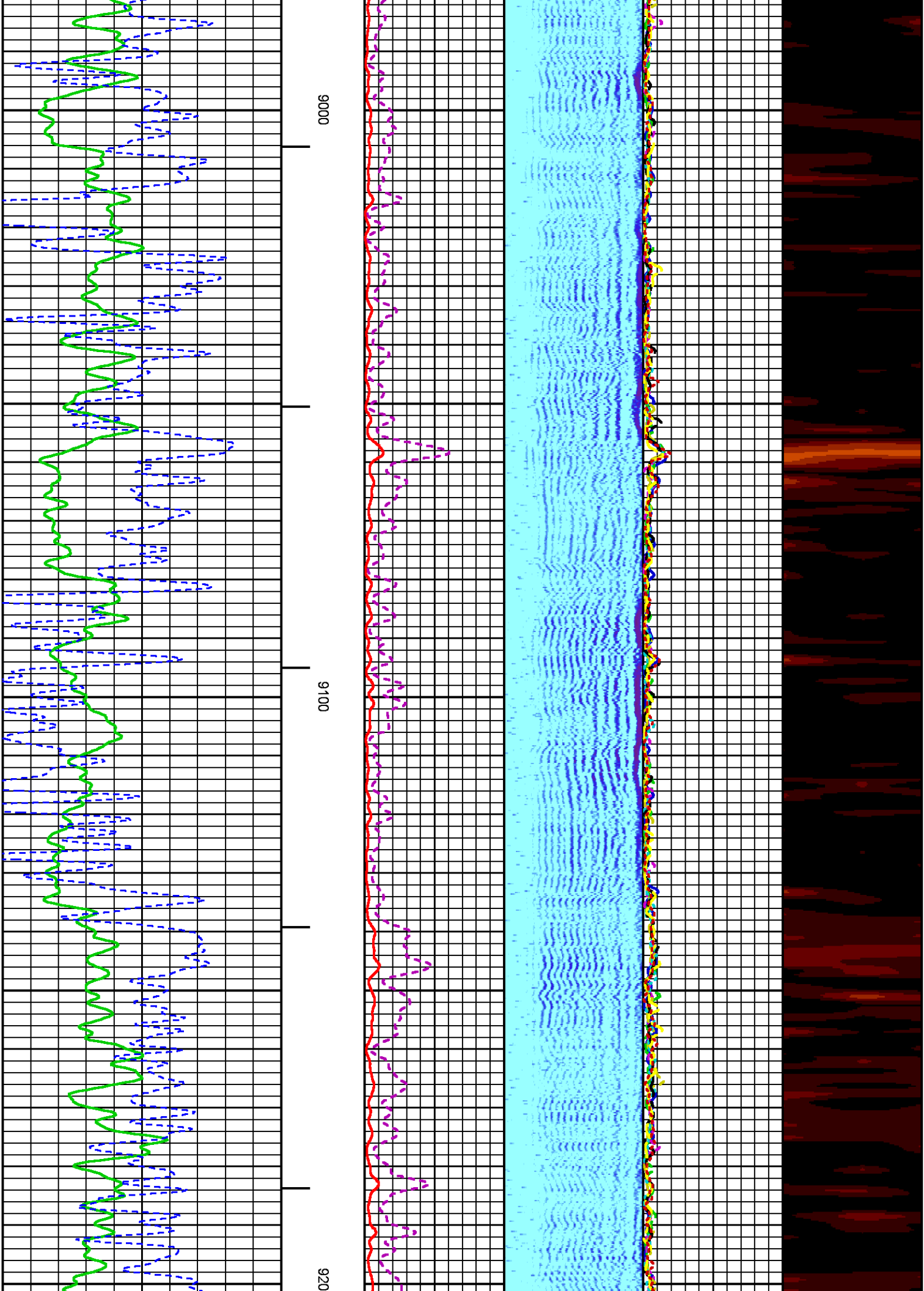


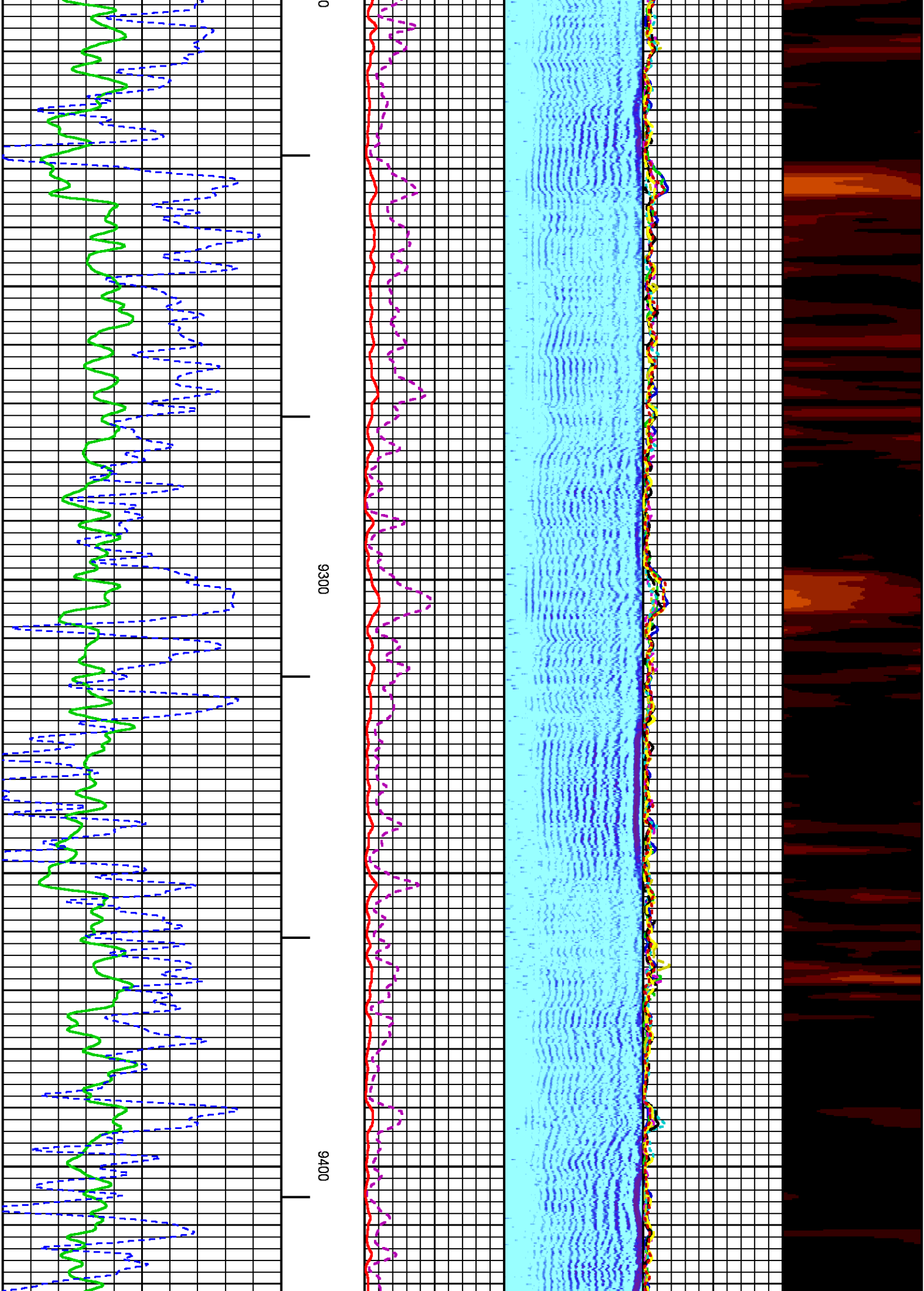


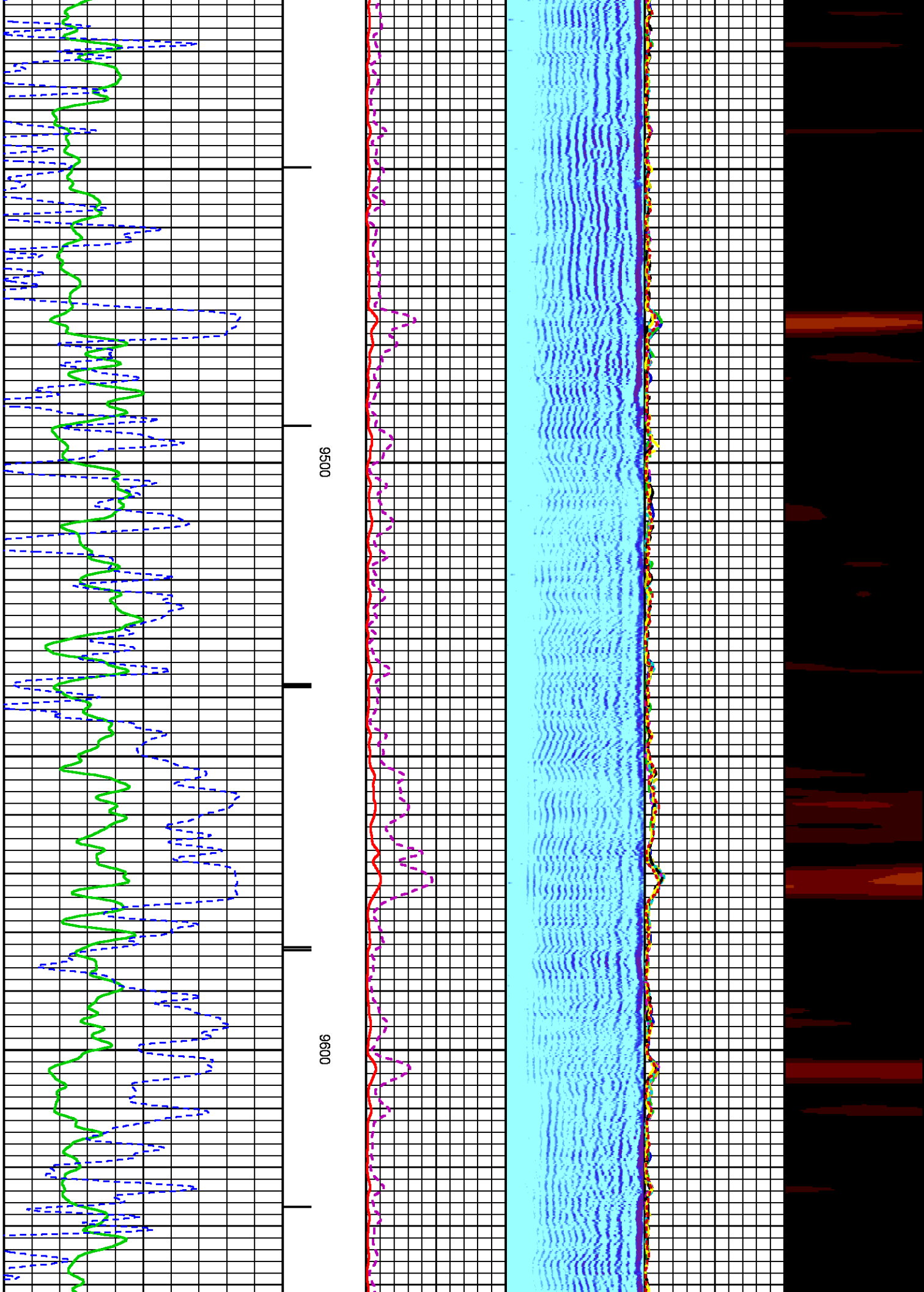


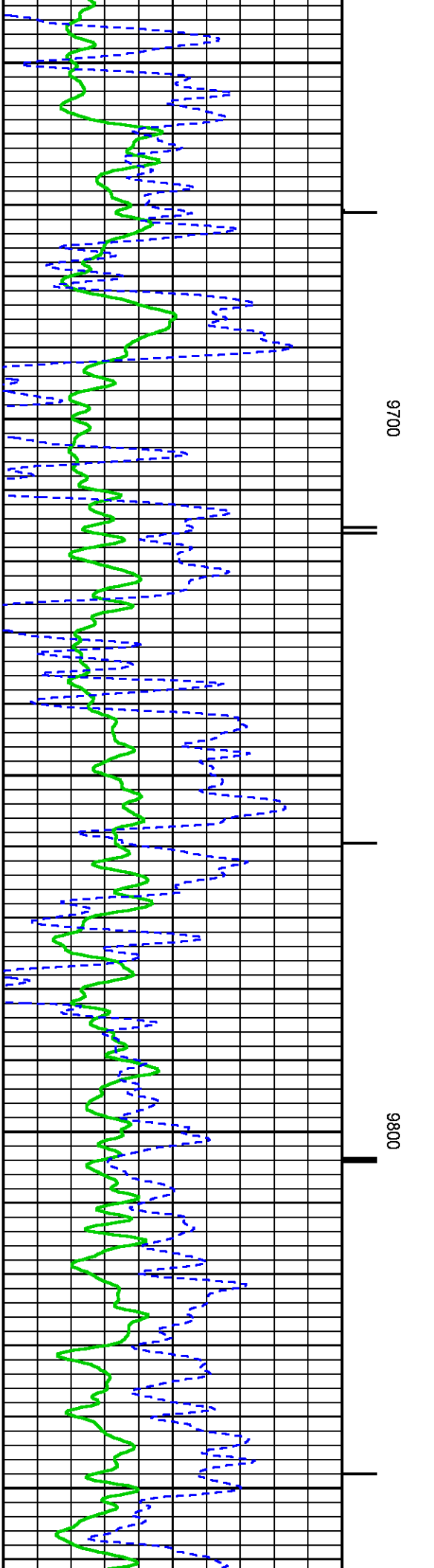
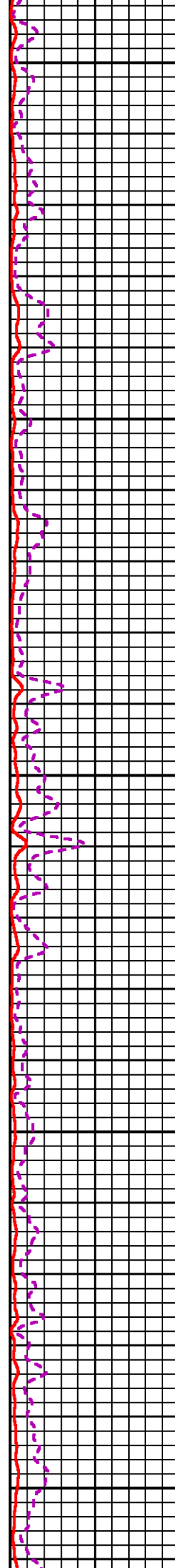
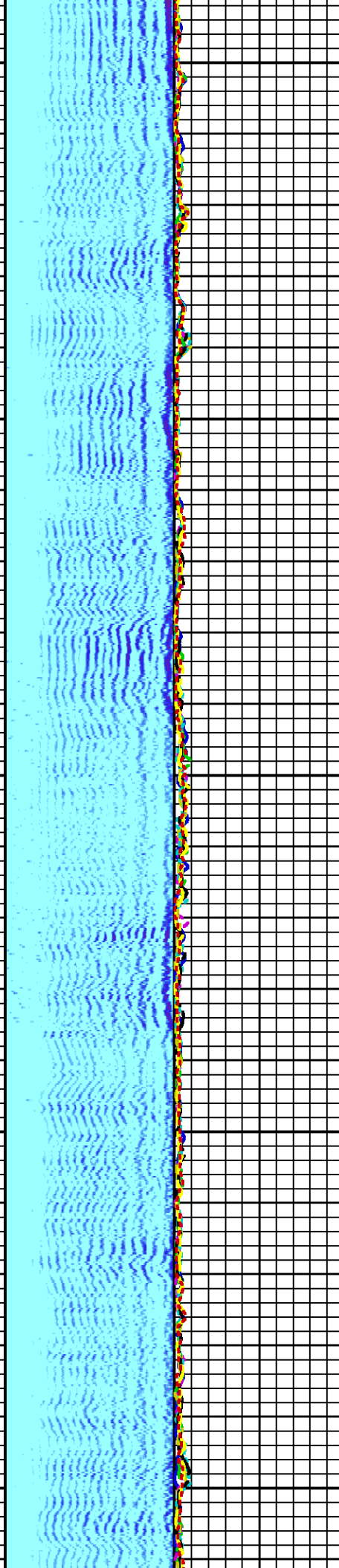
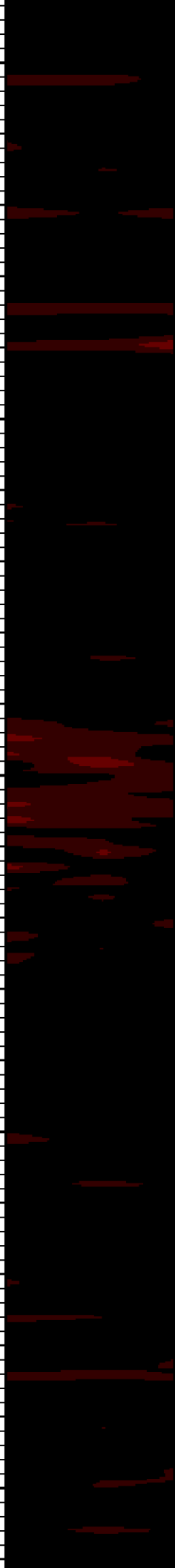


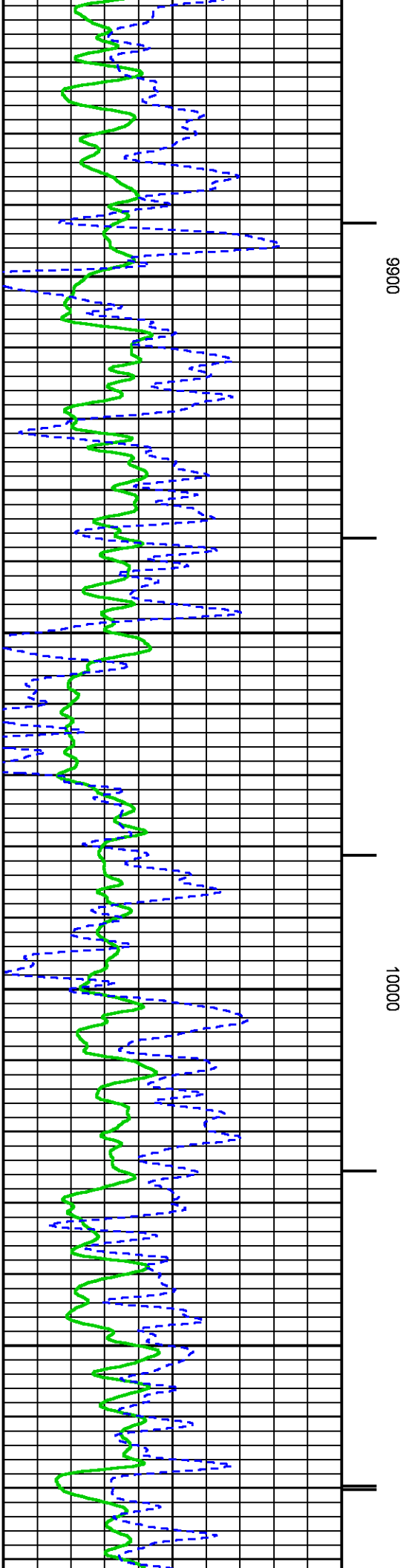
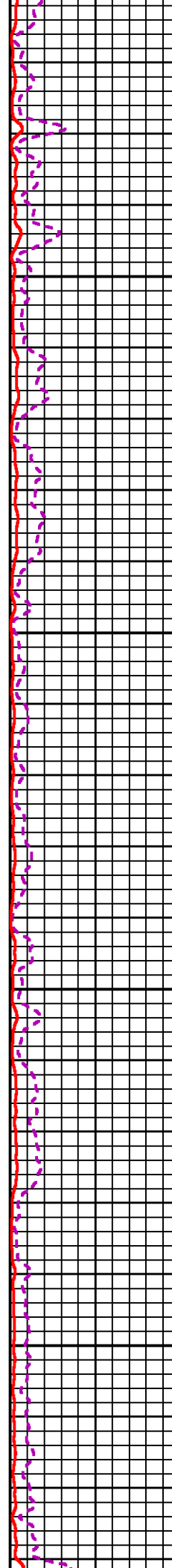
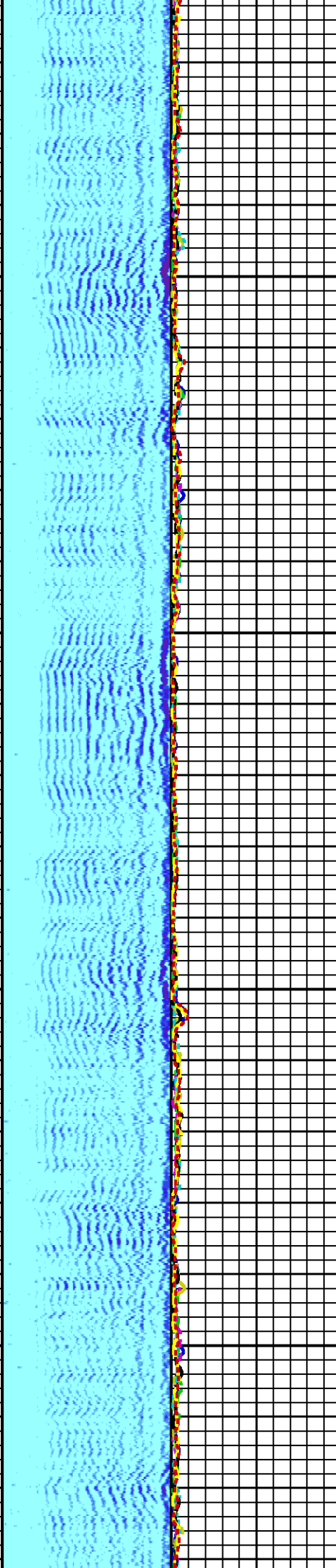
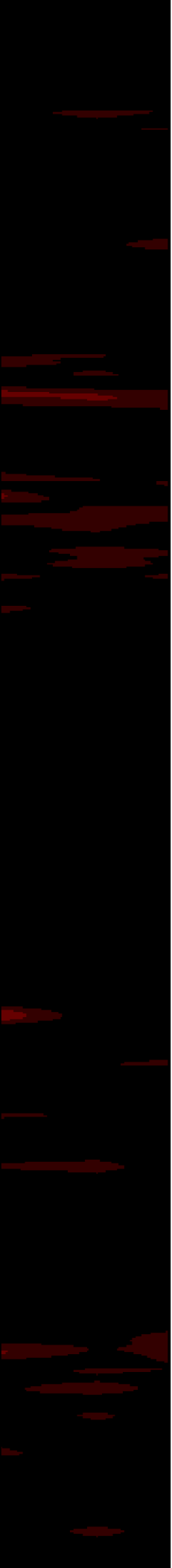


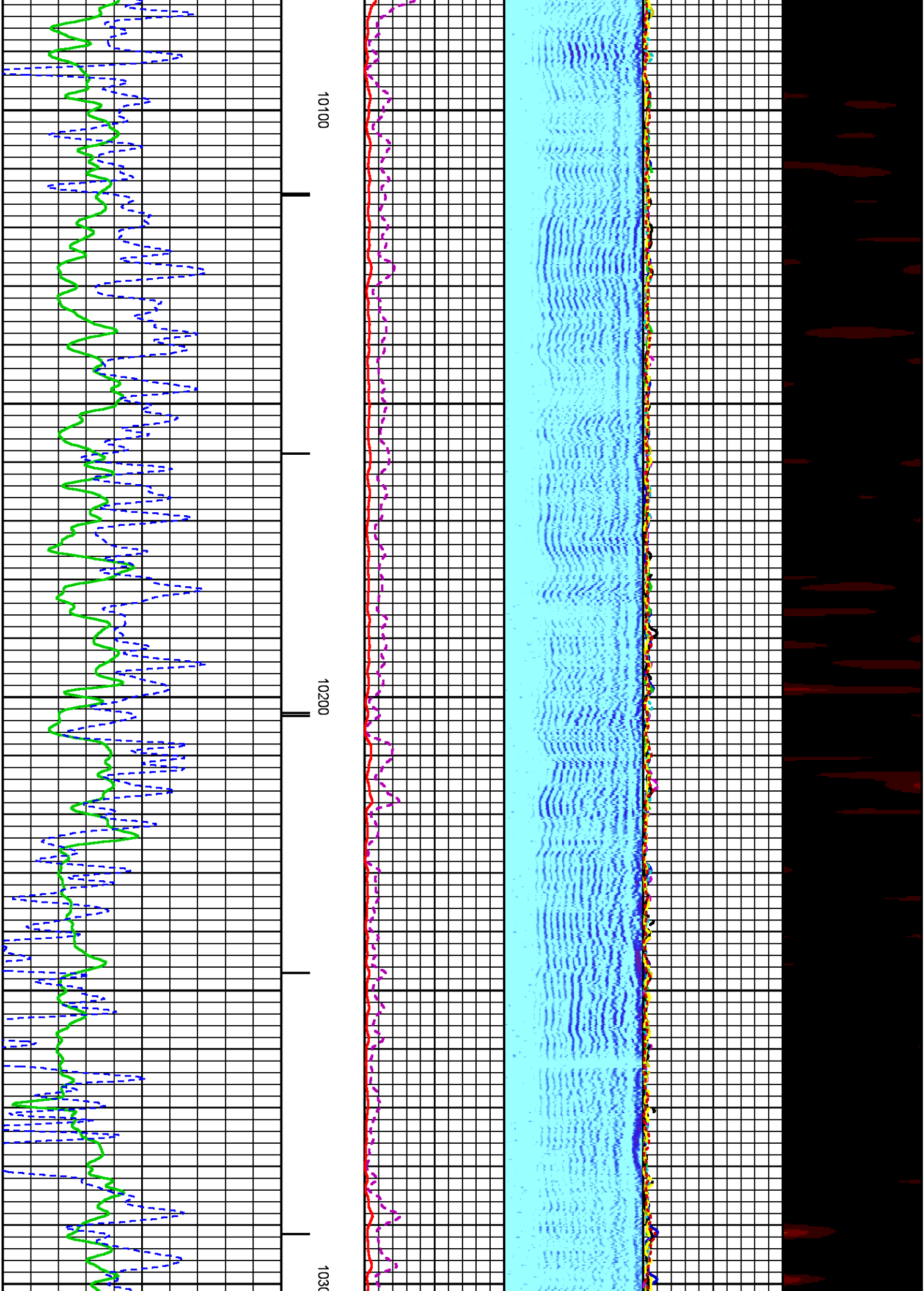


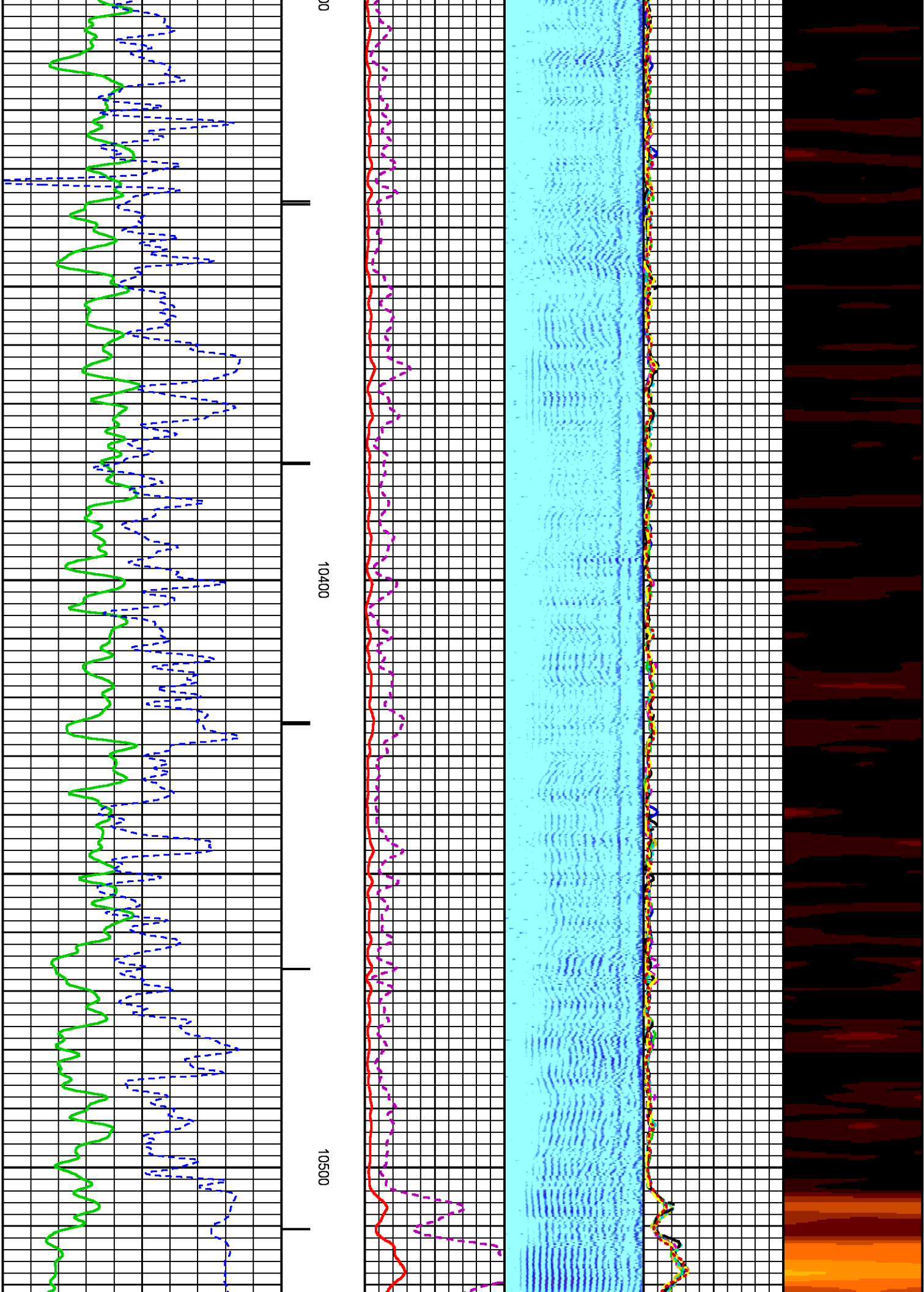


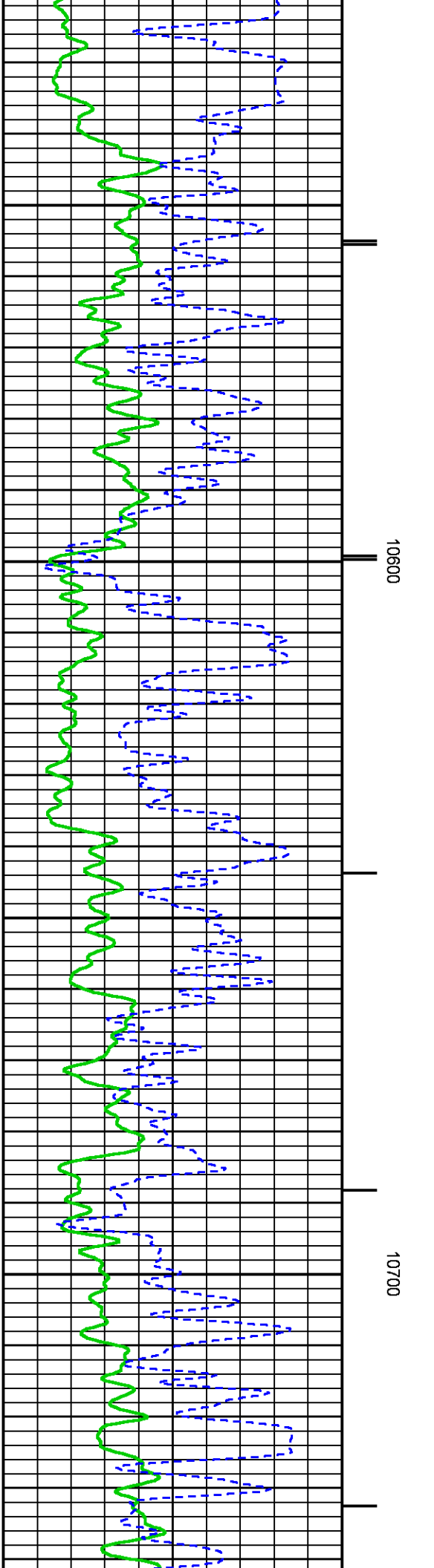
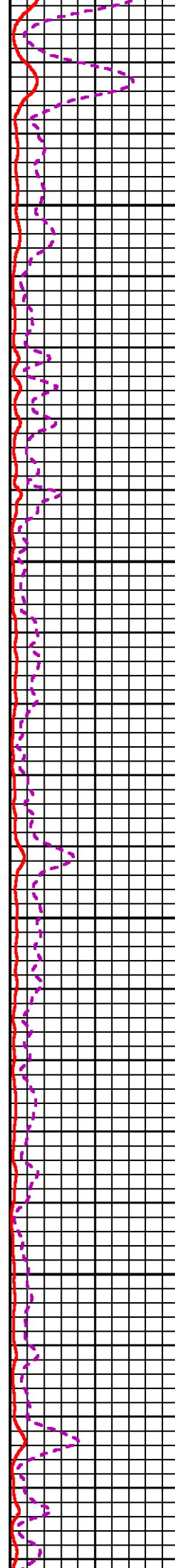
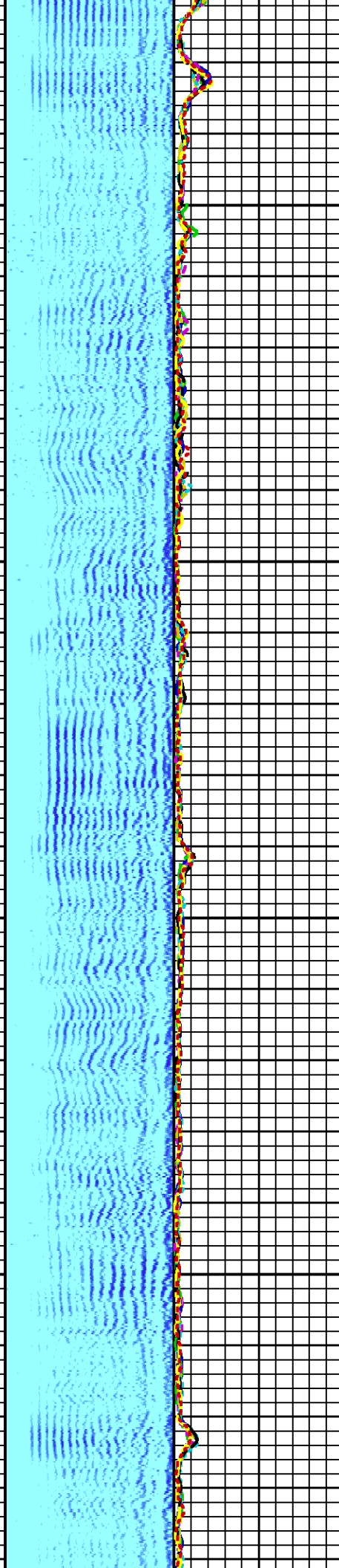
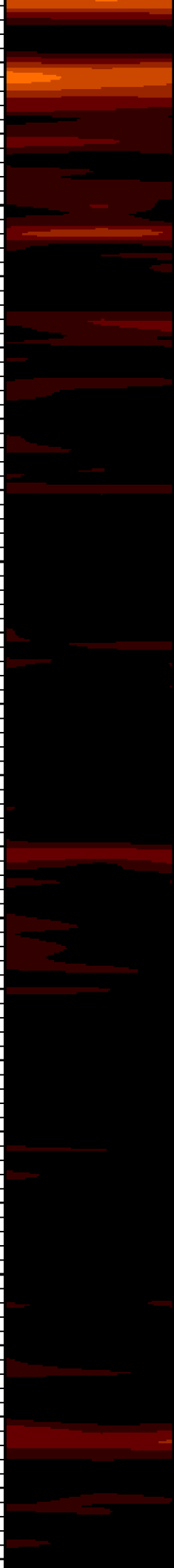


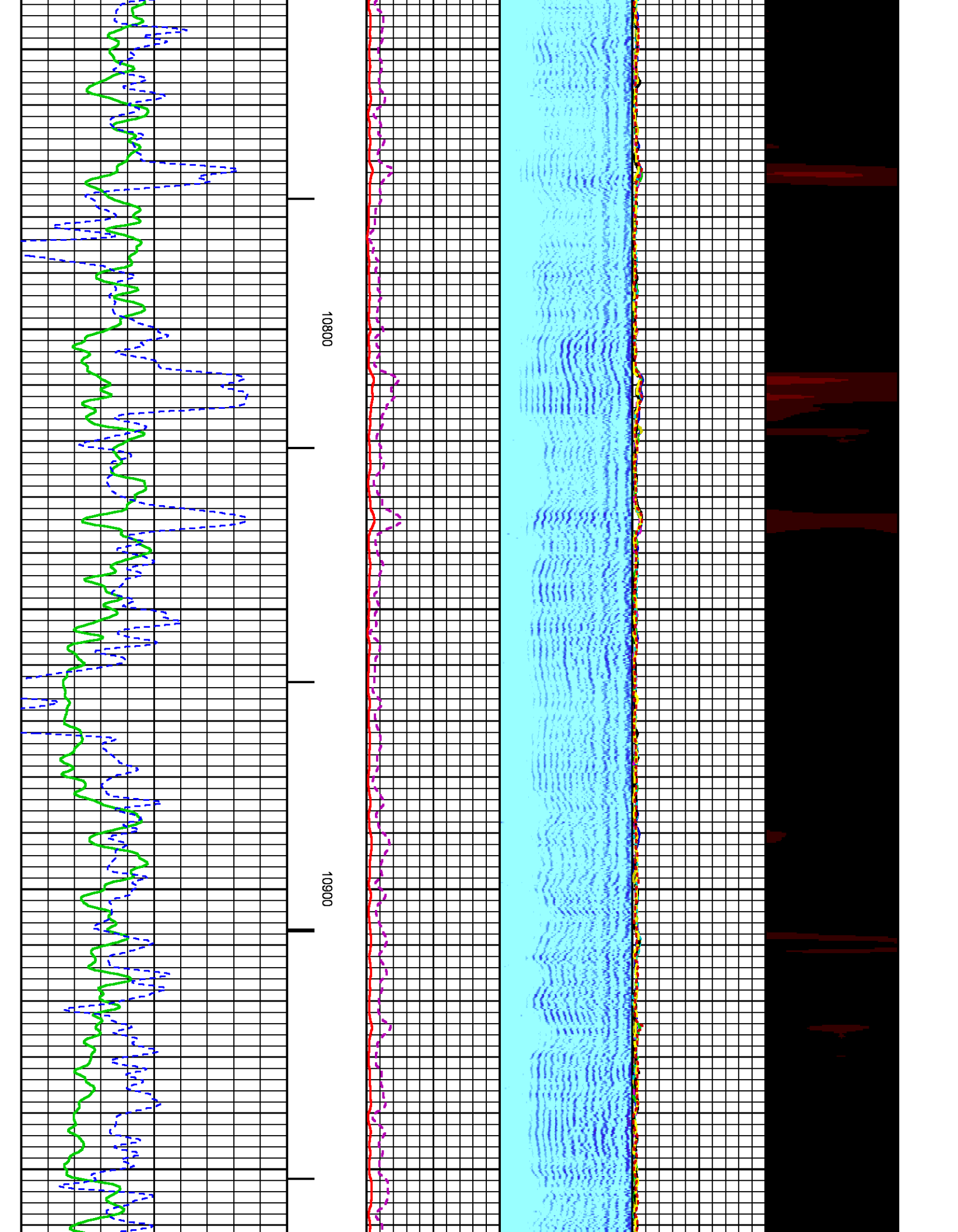


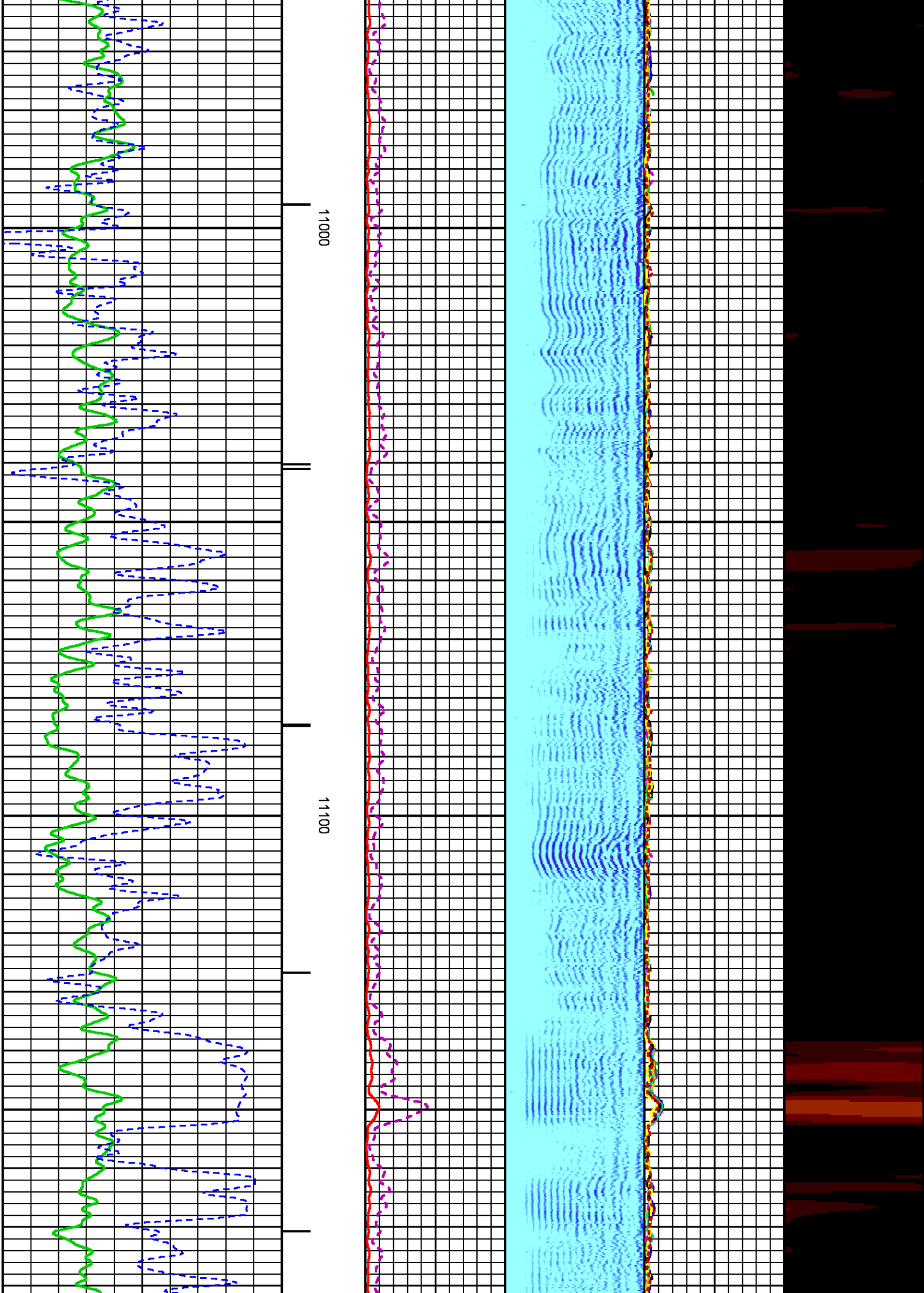


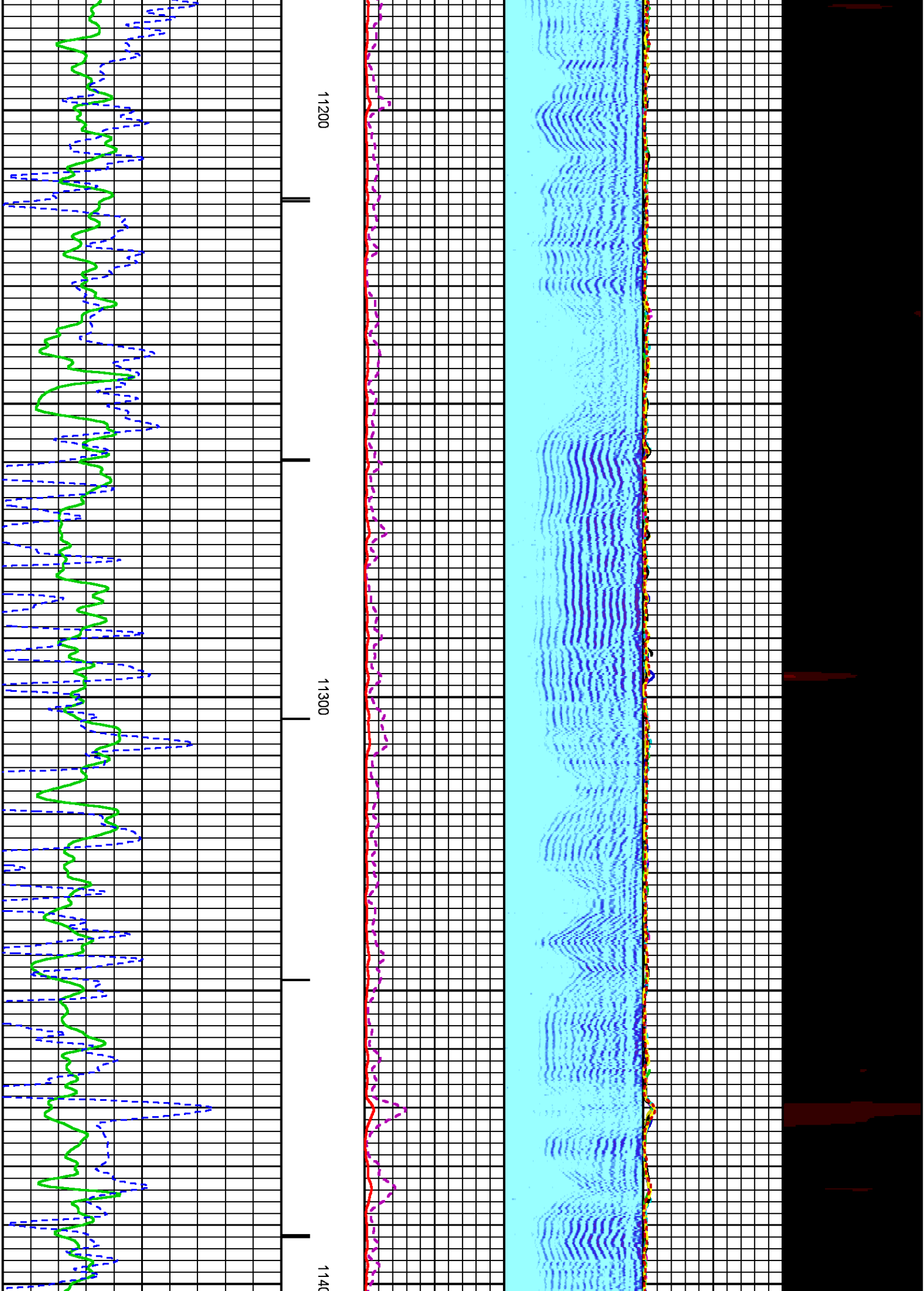


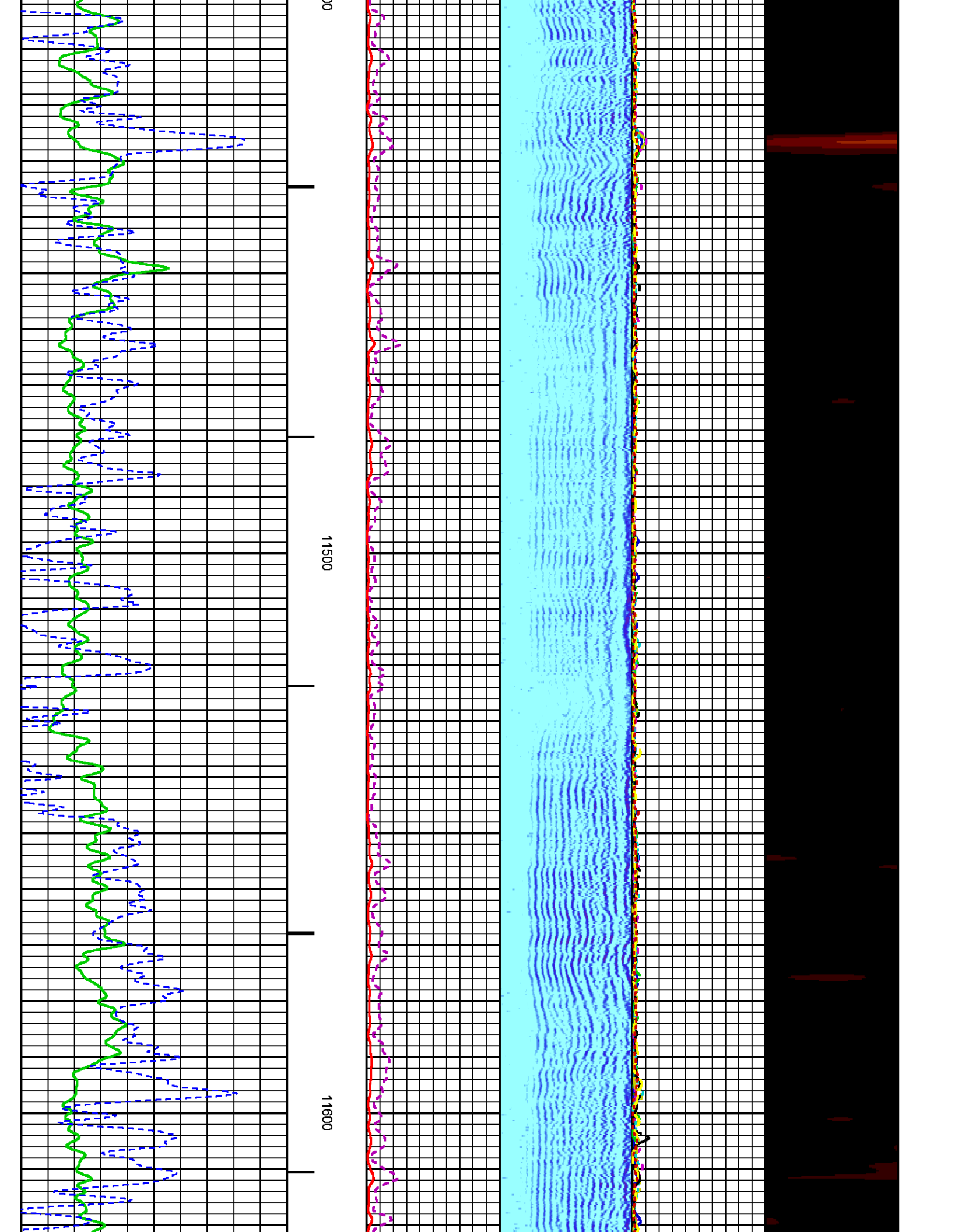


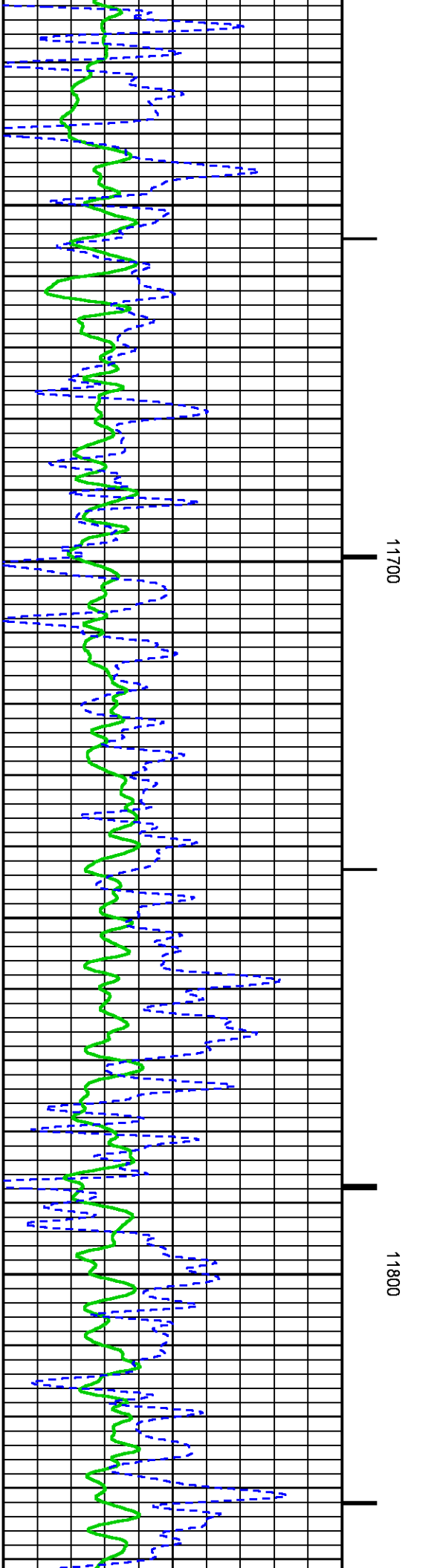
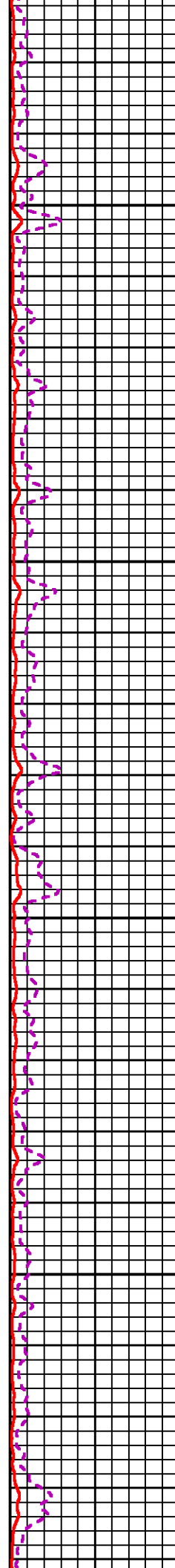
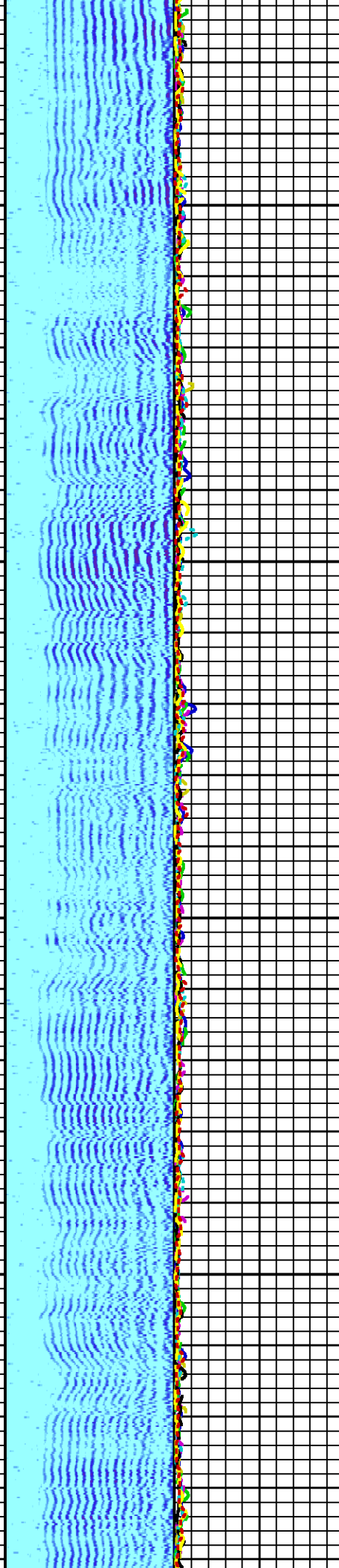
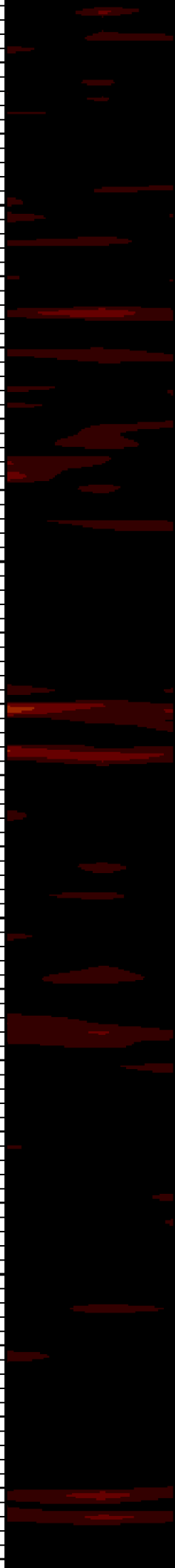


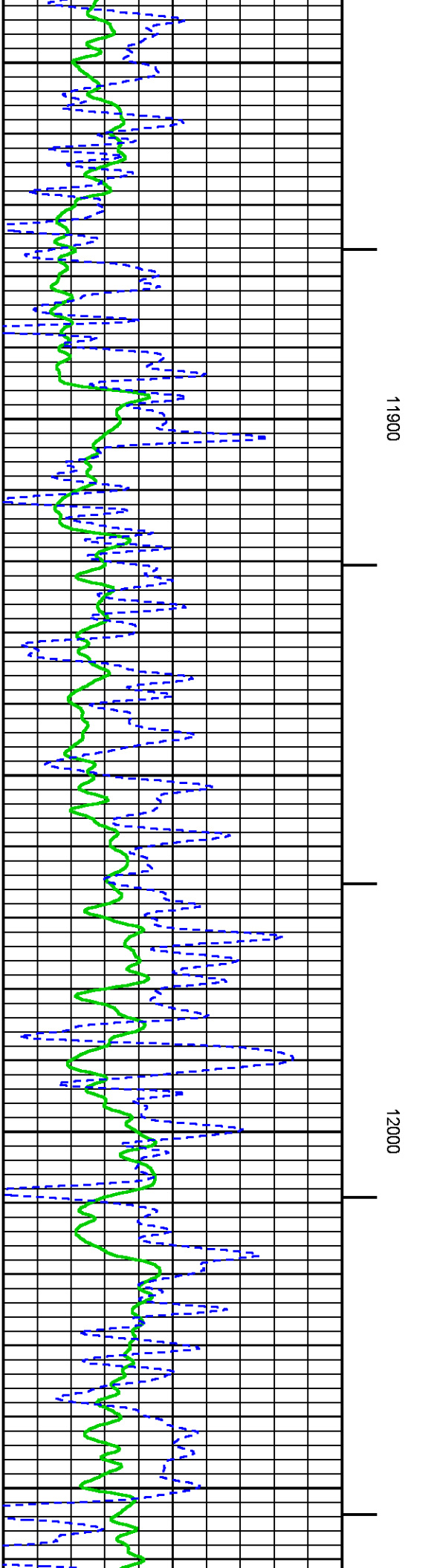
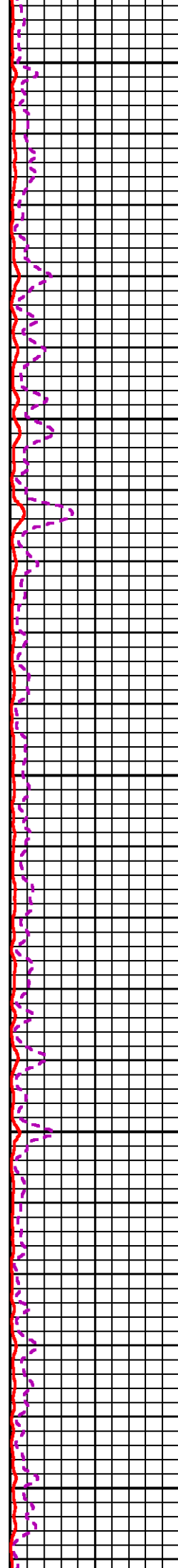
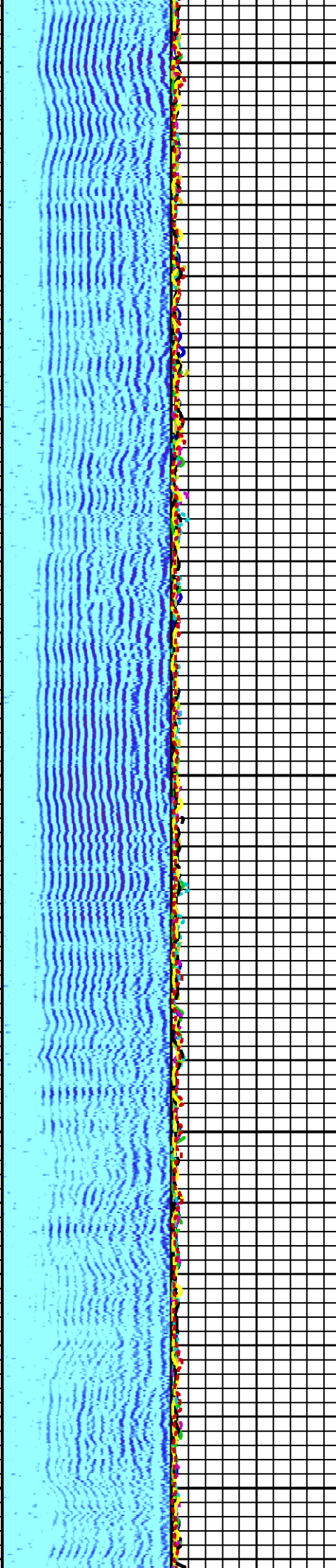
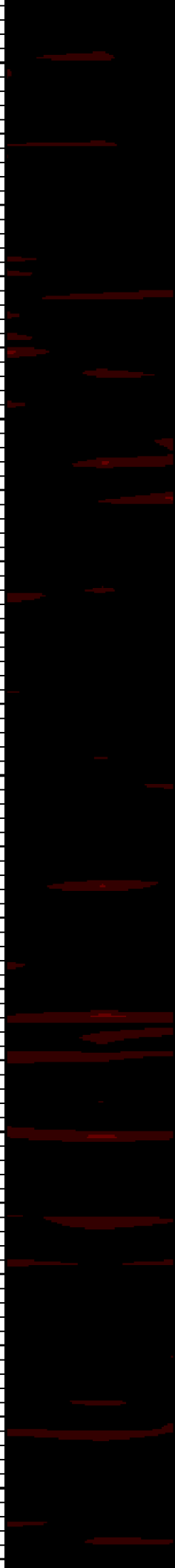






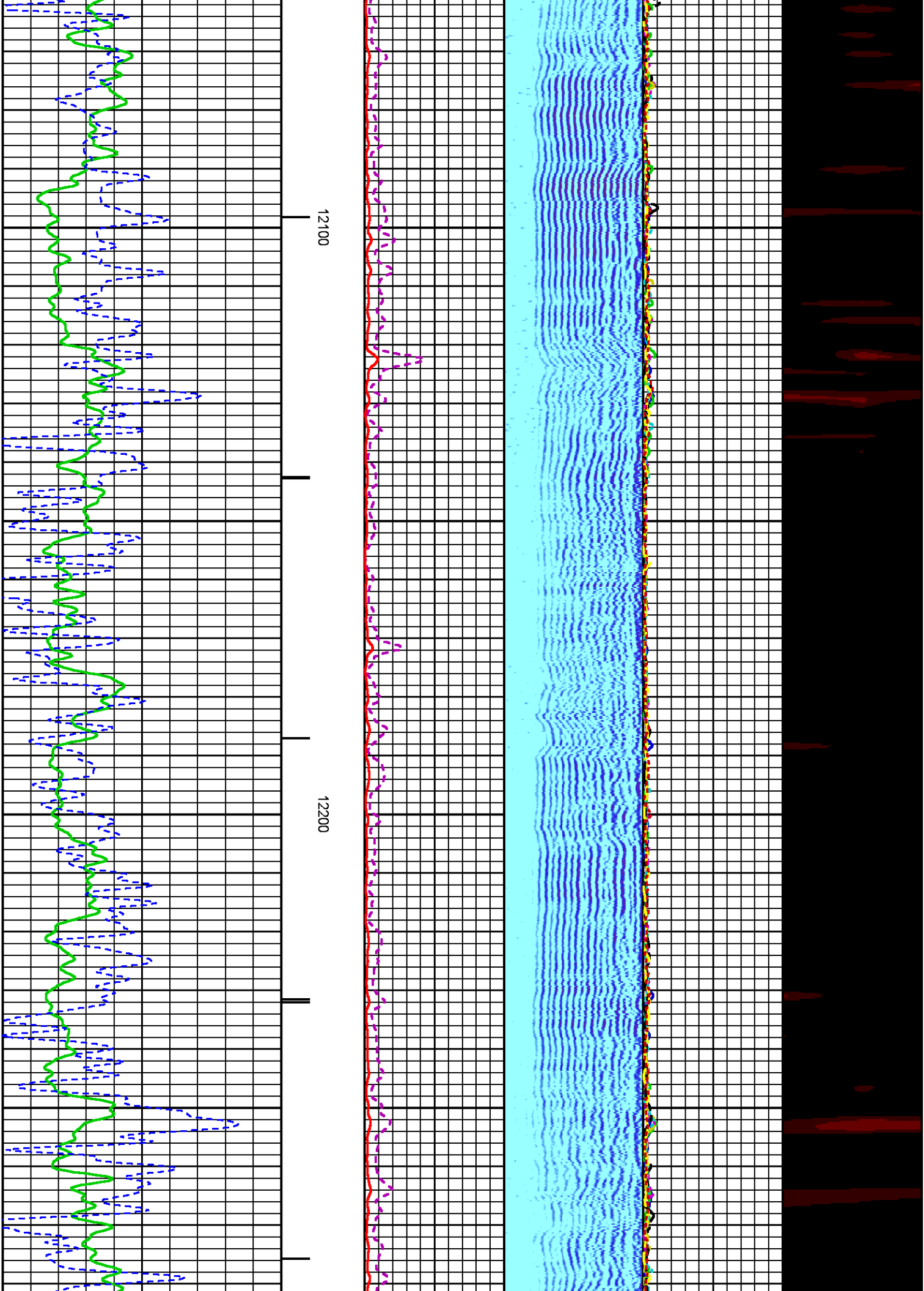


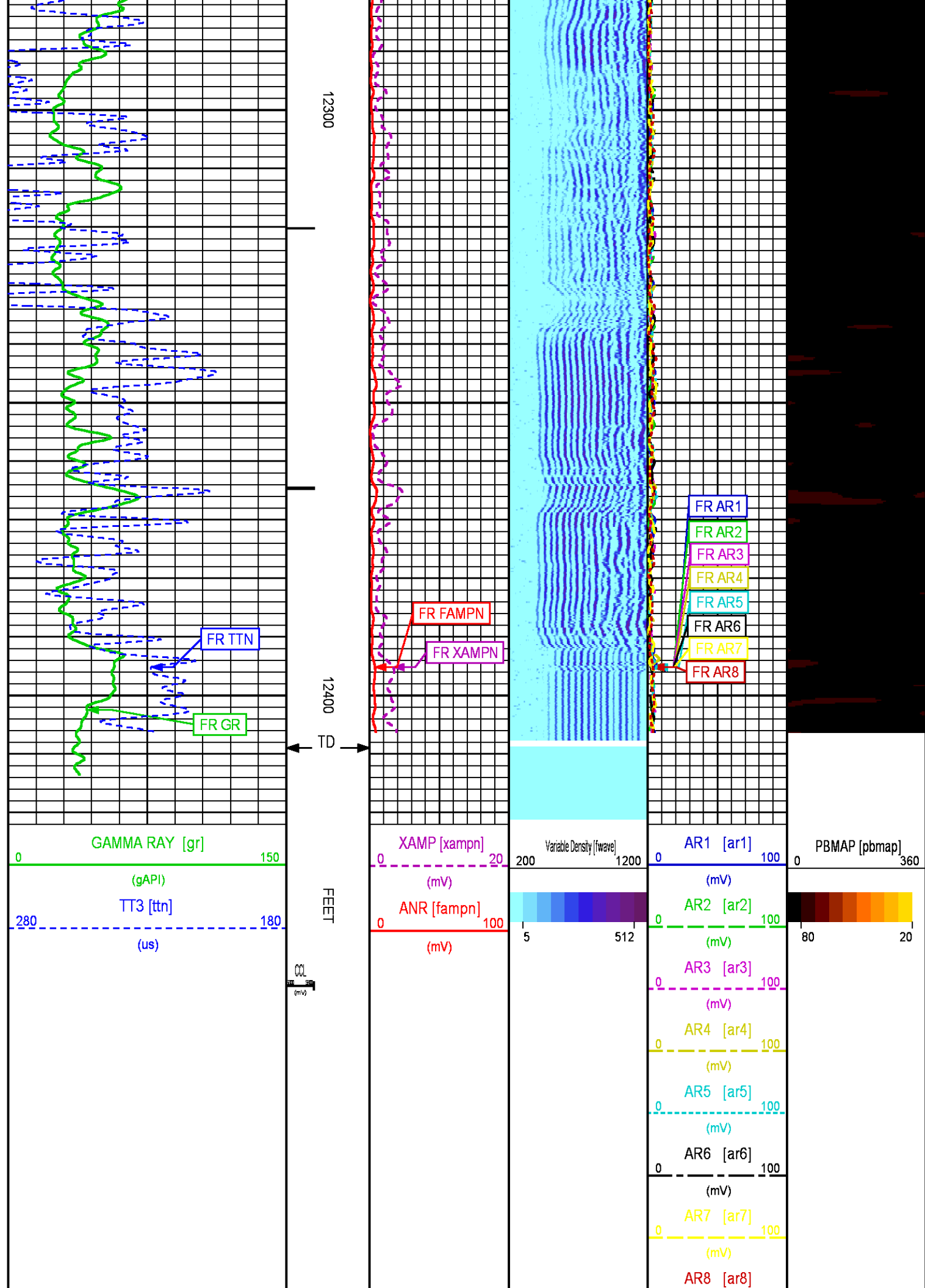




11900

12000





0
(mV)

100

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: Fri May 22 15:01:55 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n012e01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 12122.750 ft BOTTOM DEPTH: 12421.250 ft

SYMMETRIC FILTER

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|------------|-------|---------------|-----------|
| GR | FILTER () | medium (1) | | TOP | BOTTOM |
| AMPLITUDE | FILTER () | medium (1) | | TOP | 12153.500 |
| | | light (2a) | | 12153.500 | 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*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 200.391 | us | " | " |
| RAL TOOL DELAY | TOOL DELAY (strn*) | -68 | 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 22 09:51:35 2015 | CASING COLLAR LOCATOR |
| F1:FAMPN | May 22 09:51:35 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER |
| F1:FWAVE | May 22 09:51:35 2015 | FAR WAVE FORM |
| F1:GR | May 22 09:51:35 2015 | GAMMA RAY |
| F1:TTN | May 22 09:51:35 2015 | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER |
| F1:XAMPN | May 22 09:51:35 2015 | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

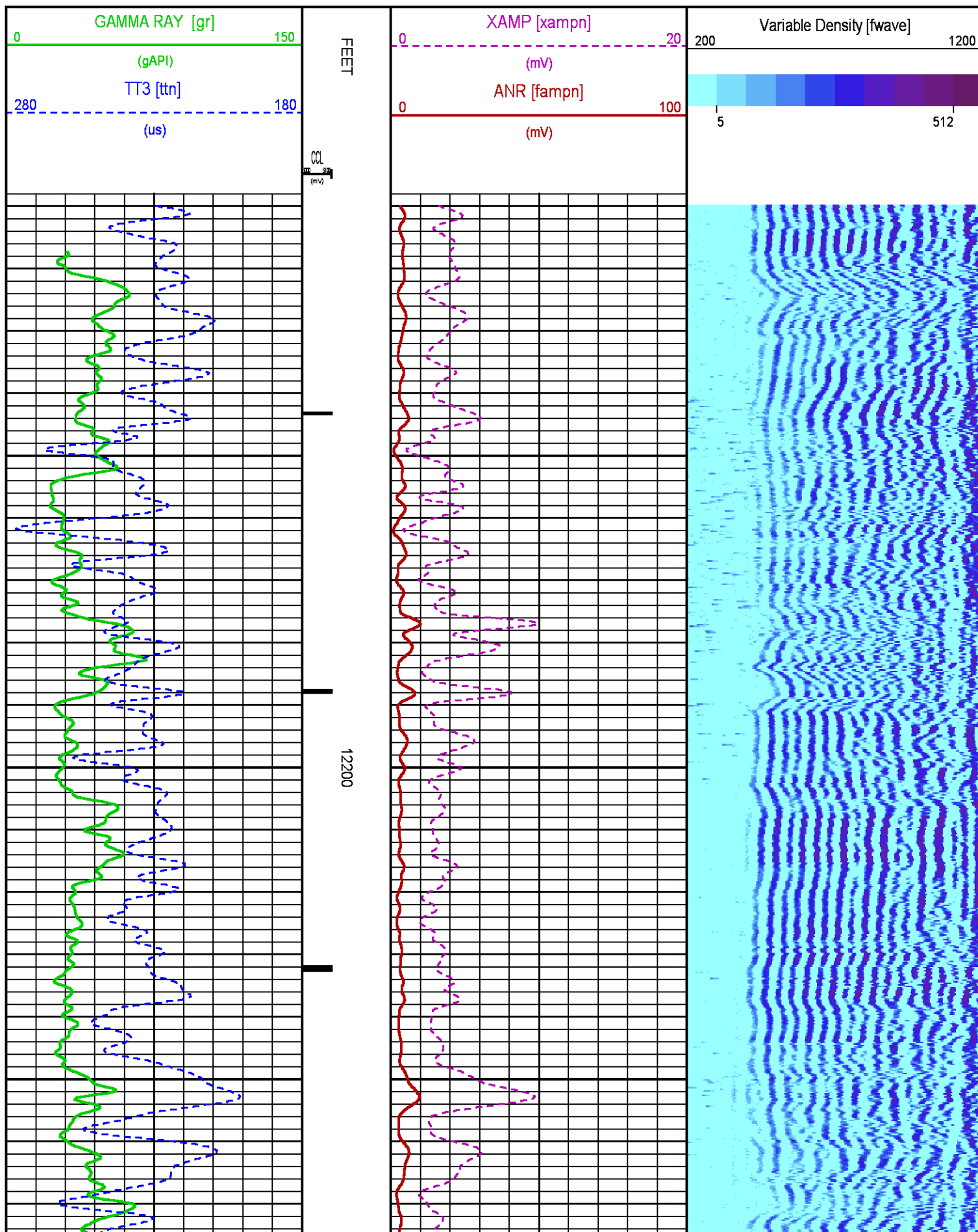
CURVE MEASURE POINT OFFSET

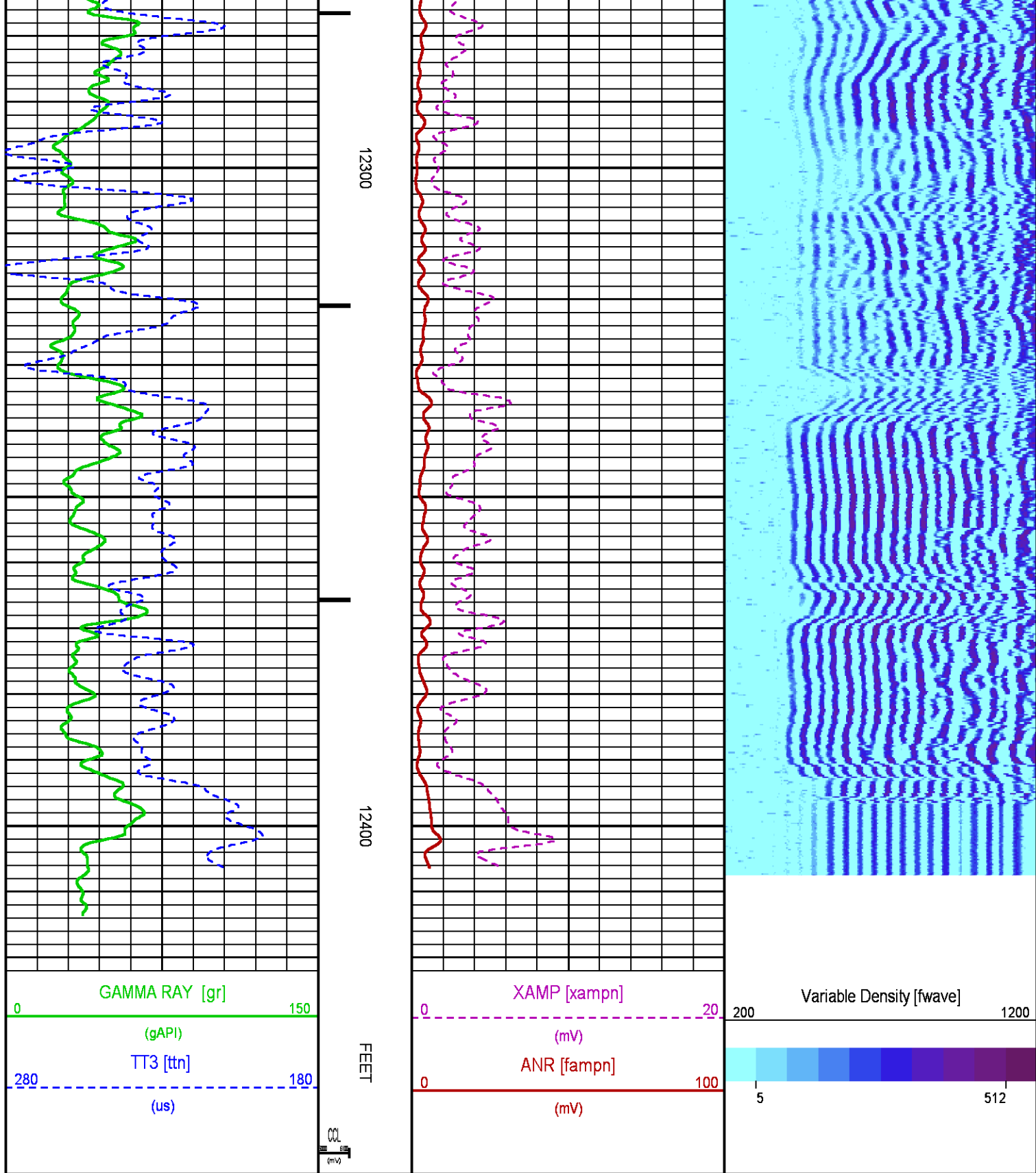
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL | 8.50 | GR | 6.50 | XAMPN | 13.75 | | |
| FAMPN | 13.75 | TTN | 13.75 | | | | |

Presentation : cas6685:/dat1a/CH096699/ral_cbl_REPEAT.fvpdf [5"/100' Scale]

Plot Interval : 12109.8 - 12419.8 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096699/n012e01_REPEAT.xtf
Created On : May 22 09:51:35 2015
Company : WPX ENERGY
Well : FEDERAL RGU 43-26-198
Field : SULPHUR CREEK
File Interval : 12108.8 - 12421.2 Feet
OCT : n012e





CALIBRATION / VERIFICATION SUMMARY

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Fri May 22 12:17:52 2015

UNIT #: 3885TC 6685

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

| | NEAR | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | FAR | CAL |
|----------------|-------|------|------|-------|------|-------|-------|-------|------|-------|-------|
| ZERO (mV) | -0.07 | 0.06 | 0.11 | -0.02 | 0.07 | -0.05 | -0.03 | -0.00 | 0.02 | -0.12 | -0.04 |
| AMP FLUID (mV) | 81 | 81 | 81 | 81 | 81 | 81 | 80 | 80 | 81 | 114 | 79 |
| TT (us) | 219 | 219 | 219 | 219 | 219 | 218 | 217 | 216 | 219 | 332 | 218 |
| M FACTOR | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.23 | 1.32 | 1.26 |

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Fri May 22 08:58:28 2015

DAYS SINCE CAL: 0

UNIT #: 3885TC 6685

CABLE #: 6685LG 53420-C1

| | NEAR (mV) | R1 (mV) | R2 (mV) | R3 (mV) | R4 (mV) | R5 (mV) | R6 (mV) | R7 (mV) | R8 (mV) | FAR (mV) | CAL (mV) |
|---------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| ZERO | 0.28 | 0.28 | 0.13 | 0.04 | 0.28 | -0.27 | 0.26 | -0.05 | -0.01 | 0.24 | -0.02 |
| AMP AIR | 2.09 | 1.33 | 2.29 | 2.06 | 2.06 | 3.23 | 2.19 | 2.86 | 2.59 | 2.50 | 99.80 |

| SHOP M FACTOR | SHOP A FACTOR | WIRELINE FACTOR |
|------------------|------------------|--------------------|
| 1.89 | 0.00 | 1.00 |

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2459XA 10218503

DATE/TIME PERFORMED: Mon May 18 15:14:30 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK VBA-905

| | BACKGROUND (cts) | CALBTR ON (cts) | CR DIFF (cts/s) | MULT | BACKGROUND (gAPI) | CALBTR ON (gAPI) | CALBTR (gAPI) |
|----|---------------------|--------------------|--------------------|-------|----------------------|---------------------|------------------|
| GR | 91.47 | 335.56 | 244.1 | 0.410 | 37.47 | 137.47 | 100 |

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2459XA 10218503

DATE/TIME PERFORMED: Mon May 18 15:16:52 2015

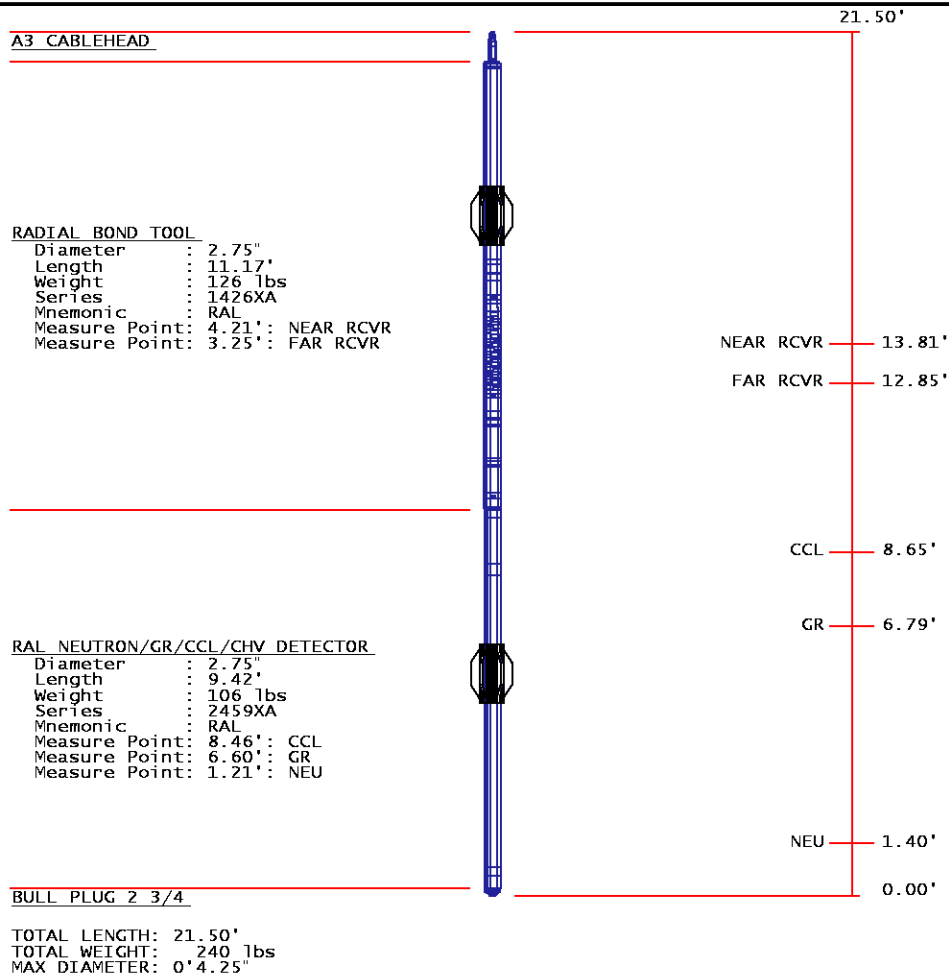
UNIT #: 3885TC 6685

VERI JIG #: 4702NK VBA-905

| | BACKGROUND CALBRTR ON (cts) | MULT | BACKGROUND CALBRTR ON (gAPI) | DIFF. (gAPI) |
|----|--------------------------------|-------|---------------------------------|-----------------|
| GR | 86.49 | 0.410 | 35.43 | 104.93 |
| | | | | 90.00 110.00 |

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH096699/n012e~ldg



**BAKER
HUGHES**

**COMPANY
WELL
FIELD
COUNTY**


**WPX ENERGY
FEDERAL RGU 43-26-198
SULPHUR CREEK
RIO BLANCO STATE COLORADO**

FILE NO:

CH096699

API NO:

05103119910000

| | | | |
|--|--|--------------------------------|---|
|  | LOCATION: | ELEVATIONS: | |
| | SHL: 2447' FNL 897' FEL BHL: 2393' FSL 8' FEL | KB 6646 FT DF GL 6622 FT | SEC 26 T1S R98W RGU 42-26-198 H&P 318 |
| | SEC 26 TWP 1S RGE 98W | DATE 22-May-2015 | |