



# RADIAL ANALYSIS BOND LOG

Baker Atlas

|   |  |  |
|---|--|--|
| File No:<br>CH091512  | Company<br>Well<br>SAVAGE RW/ 34-25  | WPX ENERGY                                   |
| API No:<br>05045219950000                                   | Field<br>County<br>GARFIELD  | RULISON<br>STATE<br>COLORADO                 |
| 25 6S 94W<br>RW/ 43-23<br>NABORS 677                        | Location<br>SHL: 1124' FSL x 1391' FEL<br>BHL: 918' FSL x 2196' FEL (SWSE)<br>SEC 25 TWP 6 S RGE 94W | Other Services<br>RPM                        |
| Permanent Datum<br>Log Measured From<br>Drill Measured From | GROUND LEVEL<br>KB 26 ft<br>KB<br>Above P. D.  | Elevations<br>KB 6260 ft<br>DF<br>GL 6234 ft |

|                              |                            |            |
|------------------------------|----------------------------|------------|
| Date                         | 13OCT2014                  |            |
| Run                          | 1                          |            |
| Service Order                | US091512                   |            |
| Depth Driller                | 8866 ft                    |            |
| Depth Logger                 | 8760 ft                    |            |
| Bottom Logged Interval       | 8760 ft                    |            |
| Top Logged Interval          | 26 ft                      |            |
| Time Started                 | 11:00                      |            |
| Time Finished                | 14:30                      |            |
| Operator Rig Time            | 3.5 HOURS                  |            |
| Type of Fluid in Hole        | WATER                      |            |
| Fluid Density                | NA                         |            |
| Salinity                     | NA                         |            |
| Fluid Level                  | NA                         |            |
| Logged Cement Top            | NA                         |            |
| Wellhead Pressure            | 0 PSI                      |            |
| Maximum Hole Deviation       | NA                         |            |
| Nominal Logging Speed        | 65 fpm                     |            |
| Maximum Recorded Temperature | NA                         |            |
| Reference Log                | BAKER HUGHES OPEN HOLE LOG |            |
| Reference Log Date           | 16-SEPT-2014               |            |
| Equipment No.                | 44271                      | GRAND JCT. |
| Recorded By                  | P. EDWARDS                 |            |
| Witnessed By                 | BOB CADY                   |            |

- FOLD HERE

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   | 1109 ft |
| 8.75 in         | 1109 ft | 8866 ft |

| Casing Record |             |       |       |         |
|---------------|-------------|-------|-------|---------|
| Size          | Weight      | Grade | From  | To      |
| 9.625 in      |             |       | 26 ft | 1109 ft |
| 4.5 in        | 11.6 lbm/ft | I-80  | 26 ft | 8866 ft |

Remarks

All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 16-SEPT-2014 at the clients request.

The amount of linear shift is 6 feet.

The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray reference.

Logged with zero PSI at wellhead.

| Equipment Data |      |      |               |               |             |
|----------------|------|------|---------------|---------------|-------------|
| Run            | Trip | Tool | Series Number | Serial Number | Position    |
| 1              | 1    | RAL  | 1426XA        | 10421495      | CENTRALIZED |
| 1              | 1    | GR   | 2459XA        | 10218503      | CENTRALIZED |

PRIMARY PRESENTATION

0 PSI

| MEASUREMENT TYPE | PARAMETER             | VALUE   | UNITS   | TOP    | BOTTOM   |
|------------------|-----------------------|---------|---------|--------|----------|
| RAL              | Amp Gate Start Far    | 305.000 | usec    | 32.037 | 8747.600 |
| RAL              | Amp Gate Start Near   | 195.000 | usec    | 32.037 | 8747.600 |
| RAL              | Amp Gate Start Radial | 195.000 | usec    | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Far    | 25.000  | usec    | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Near   | 25.000  | usec    | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Radial | 25.000  | usec    | 32.037 | 8747.600 |
| RAL              | casing od             | 4.500   | inches  | 32.037 | 8747.600 |
| RAL              | casing wt             | 11.600  | lbm/ft  | 32.037 | 8747.600 |
| RAL              | FB Start Far          | 291.900 | usec    | 32.037 | 8747.600 |
| RAL              | FB Start Near         | 180.000 | usec    | 32.037 | 8747.600 |
| RAL              | FB Start Radial       | 180.000 | usec    | 32.037 | 8747.600 |
| RAL              | FB Thresh Far         | 15.000  | mv      | 32.037 | 8747.600 |
| RAL              | FB Thresh Near        | 4.000   | mv      | 32.037 | 8747.600 |
| RAL              | FB Thresh Radial      | 4.000   | mv      | 32.037 | 8747.600 |
| RAL              | Fluid Travel Time     | 200.000 | usec/ft | 32.037 | 8747.600 |

DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES |     |     |     |     |      |
|--------|--------------|-----------------|-----|-----|-----|-----|------|
| 1426XA | -12.360      | ACAL            | ANR | AR1 | AR2 | AR3 | AR4  |
|        |              | AR5             | AR6 | AR7 | AR8 | CHV | FPR2 |

1426XA -11.360  
2459XA -7.250  
2459XA -5.390  
2459XA 0.000

FPR3 FPR5 TT3 TTR1 TTR2 TTR3  
TTR4 TTR5 TTR6 TTR7 TTR8 XAMP  
AFAR SIG TT5  
CCL  
GR  
NEU

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

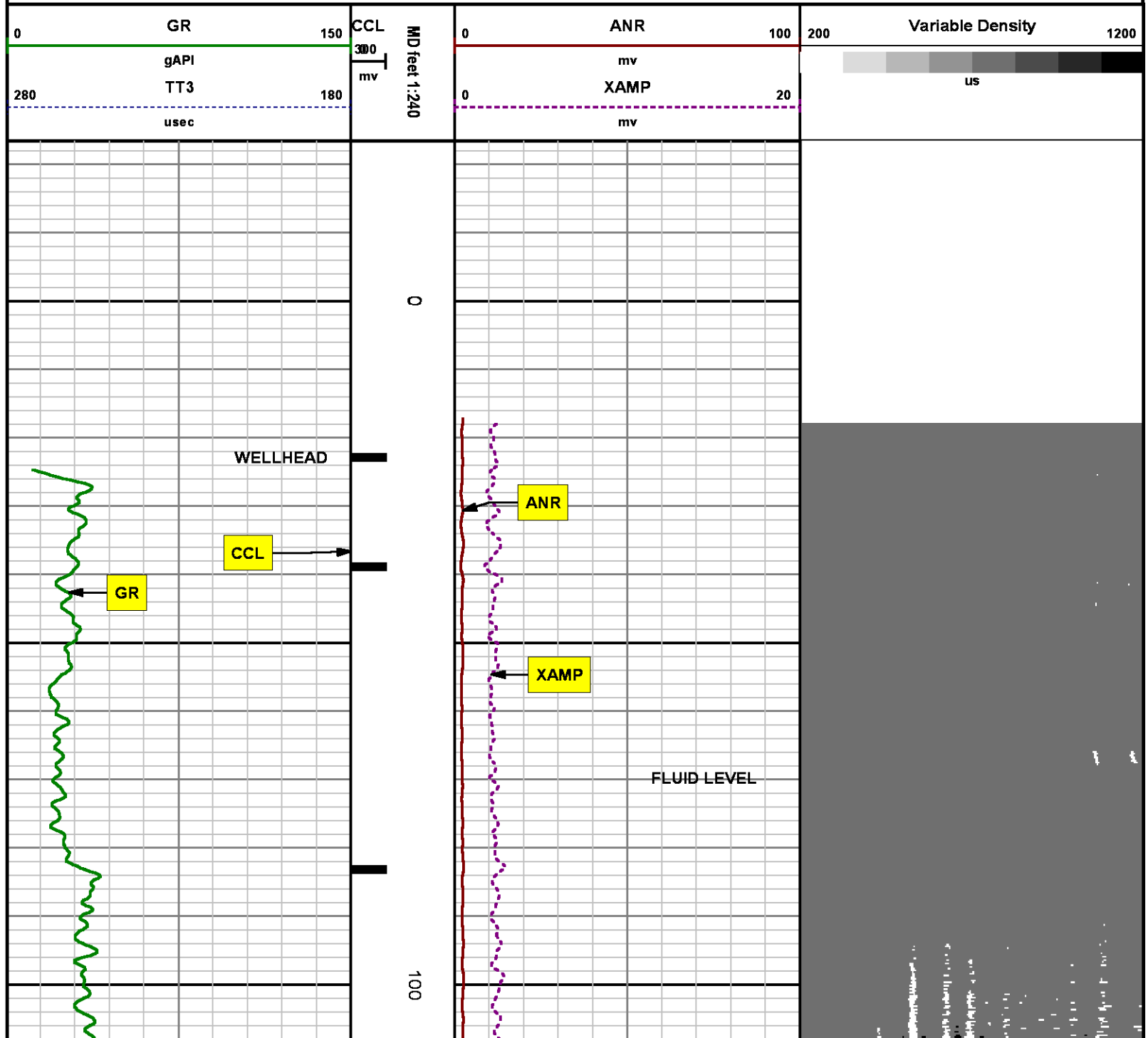
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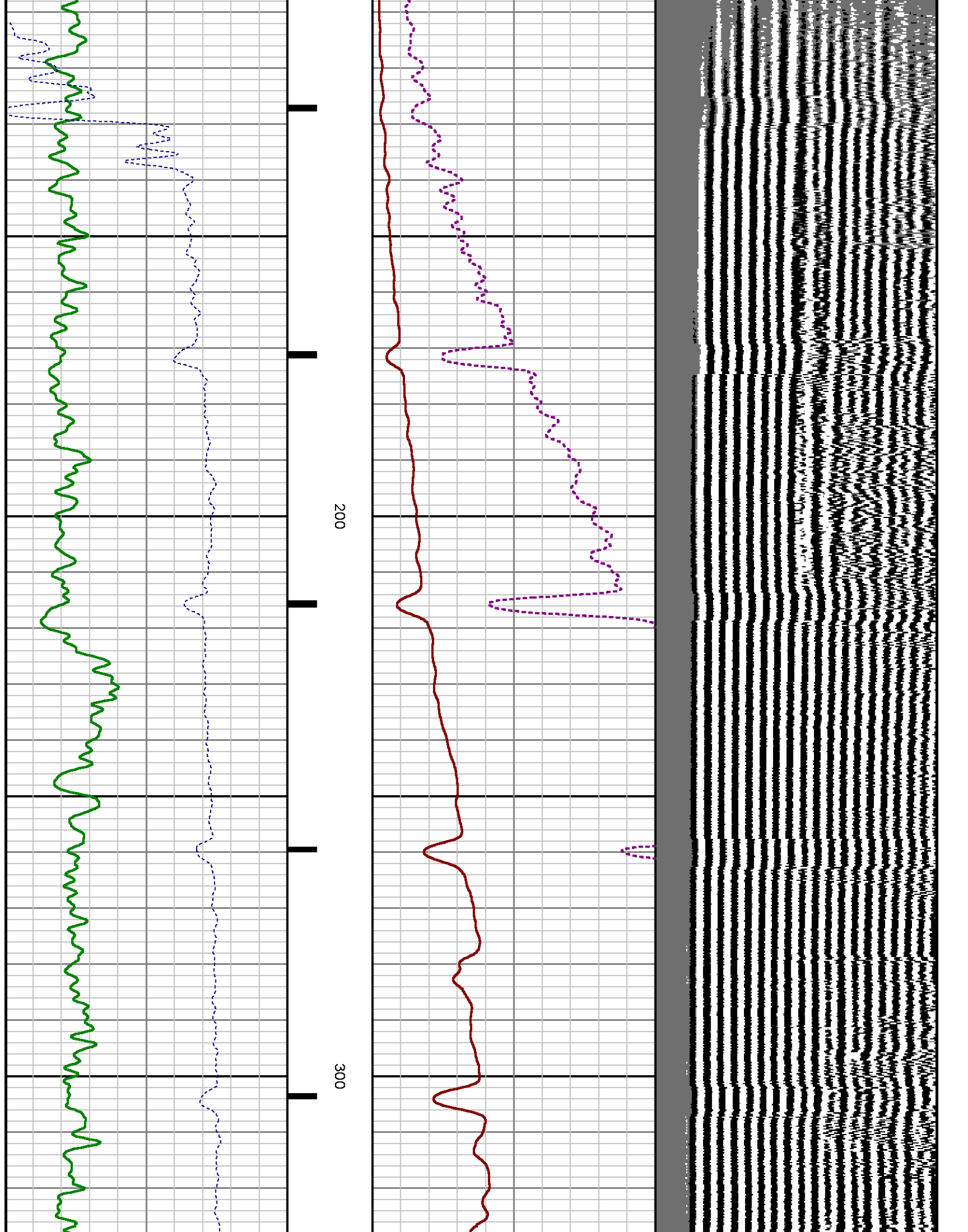
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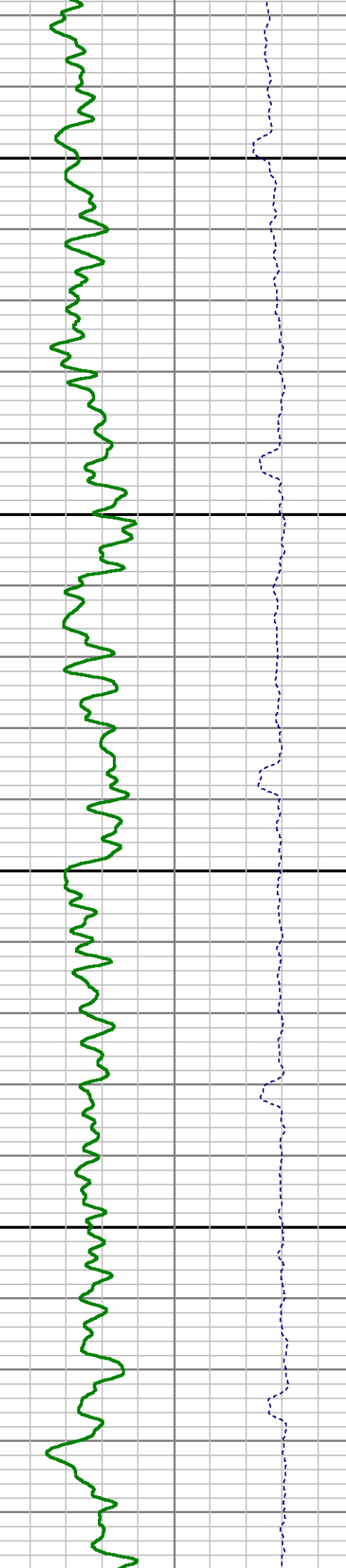
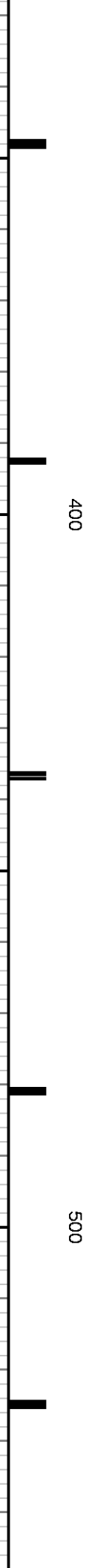
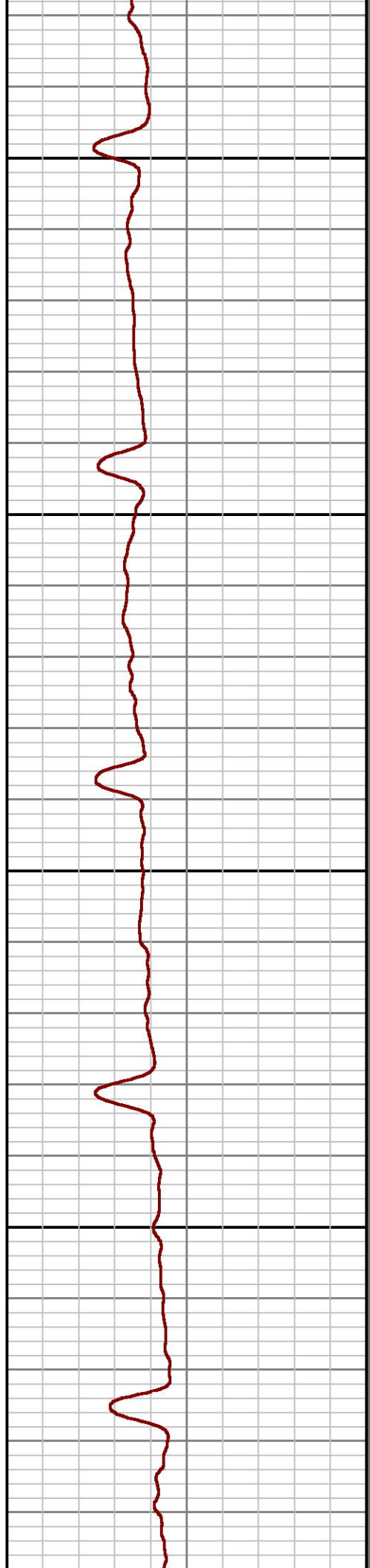
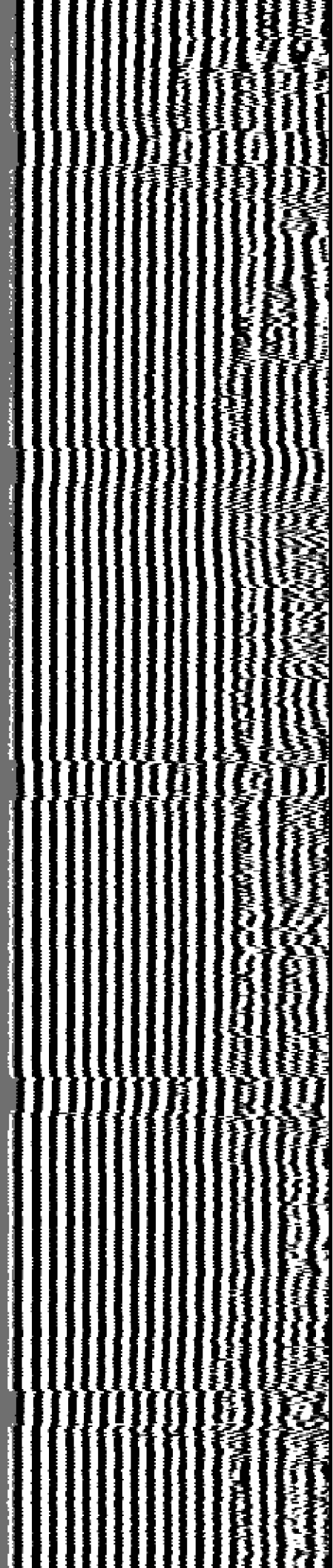
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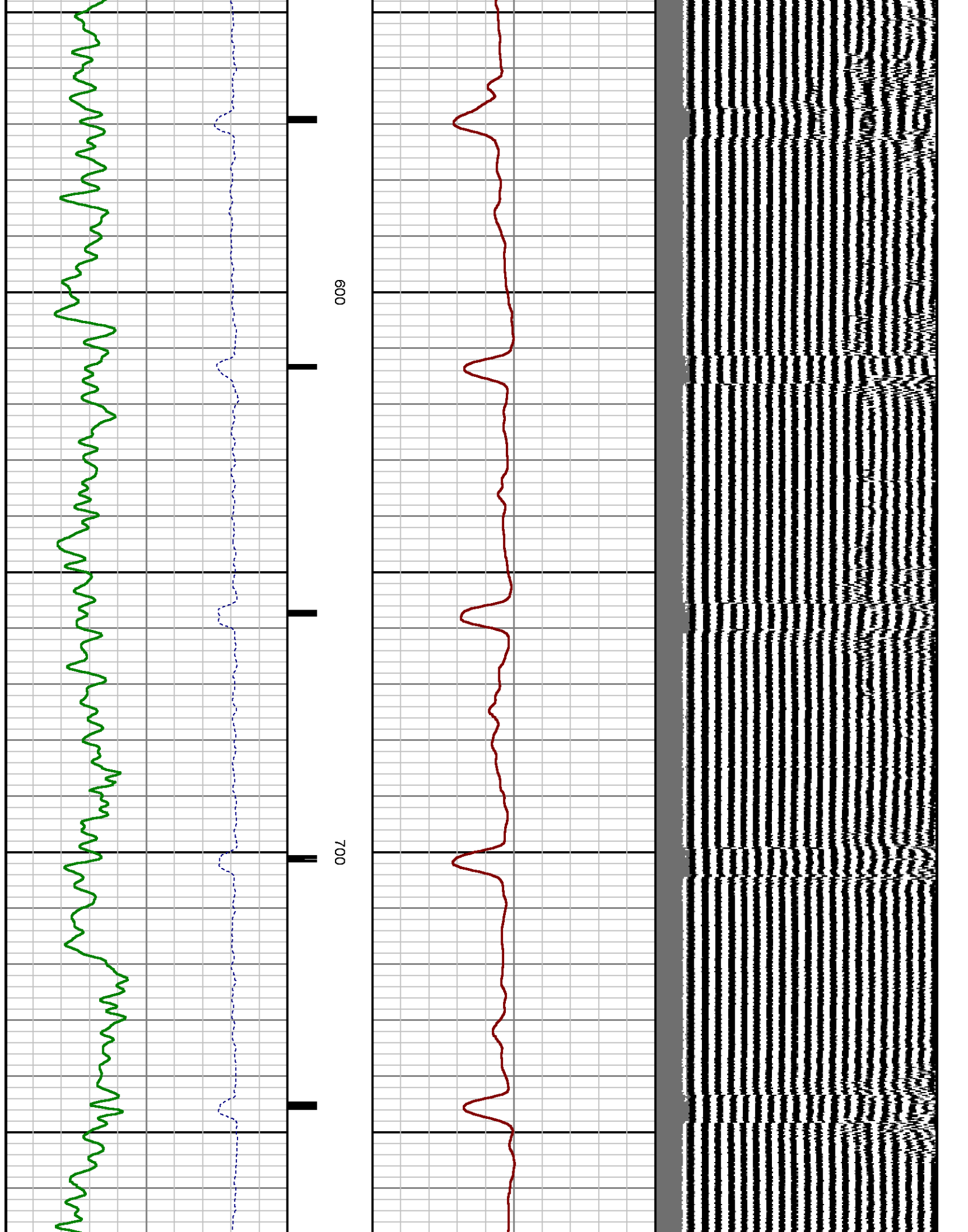
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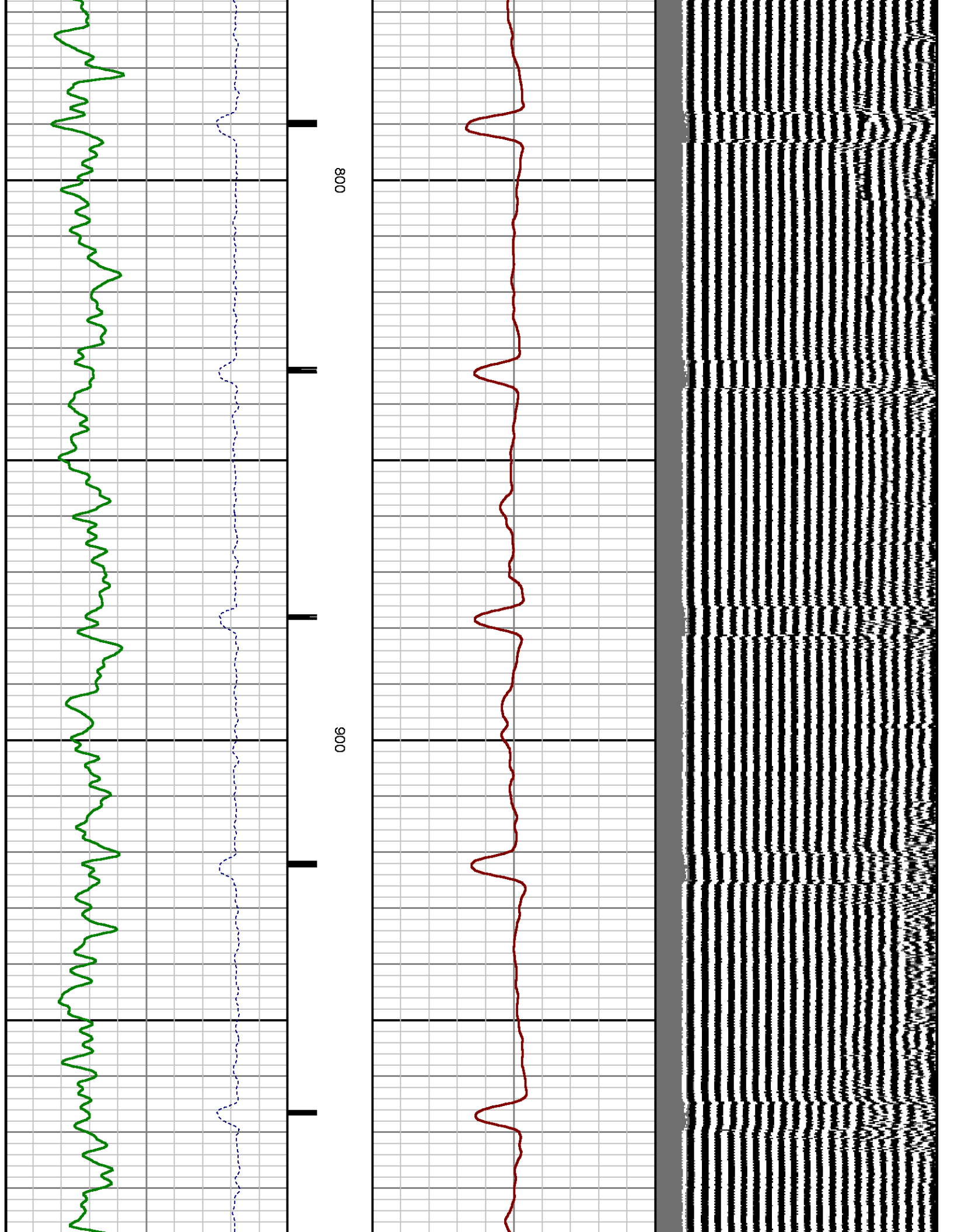
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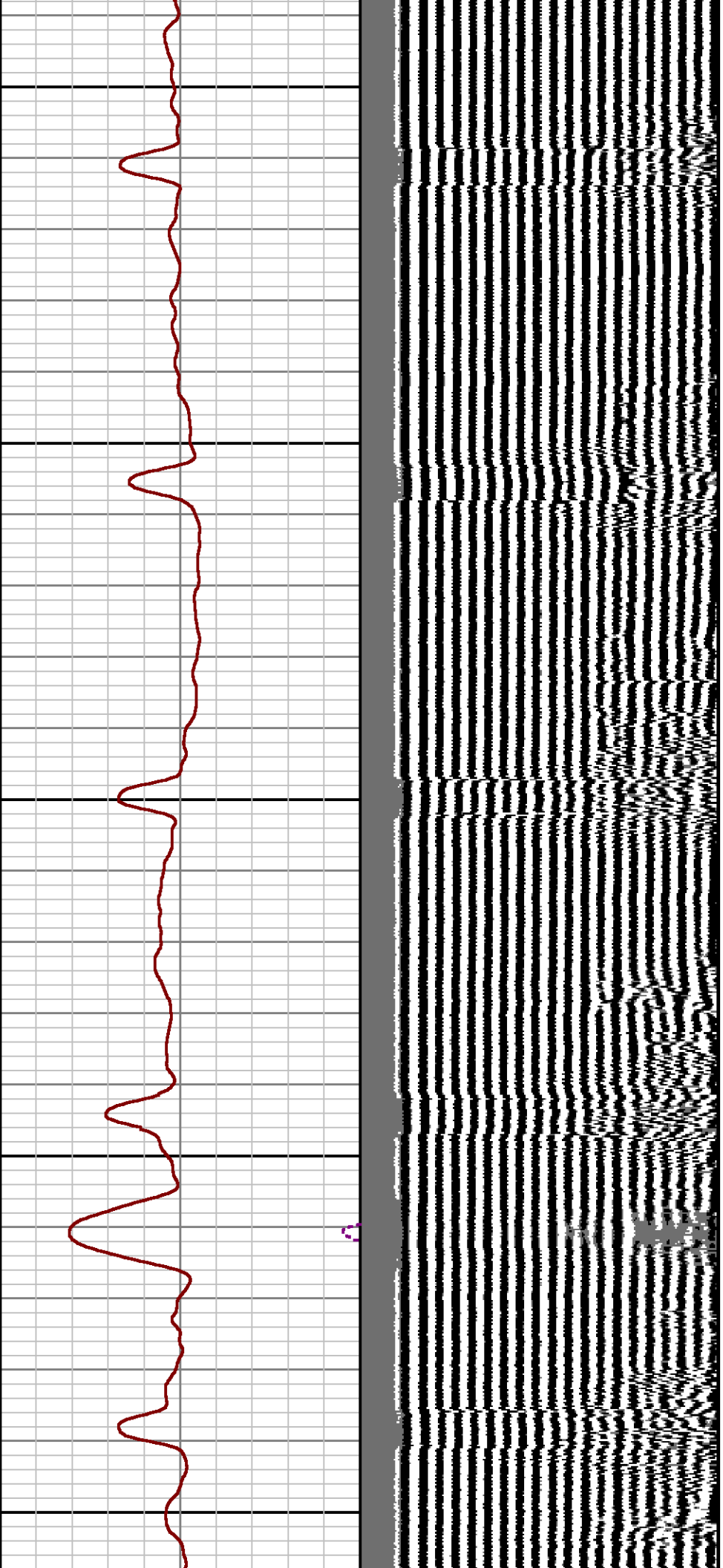








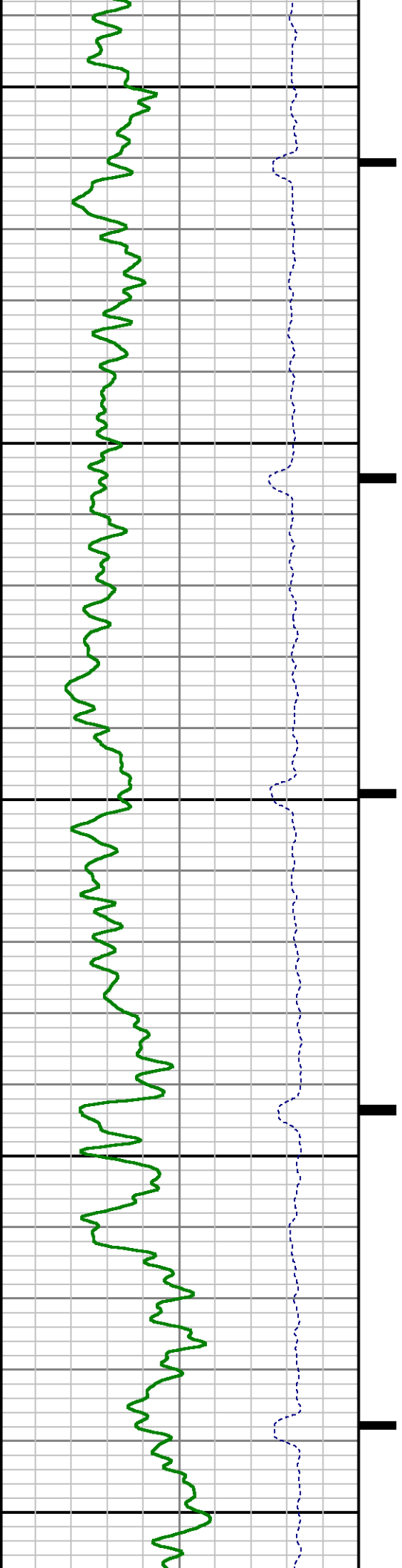




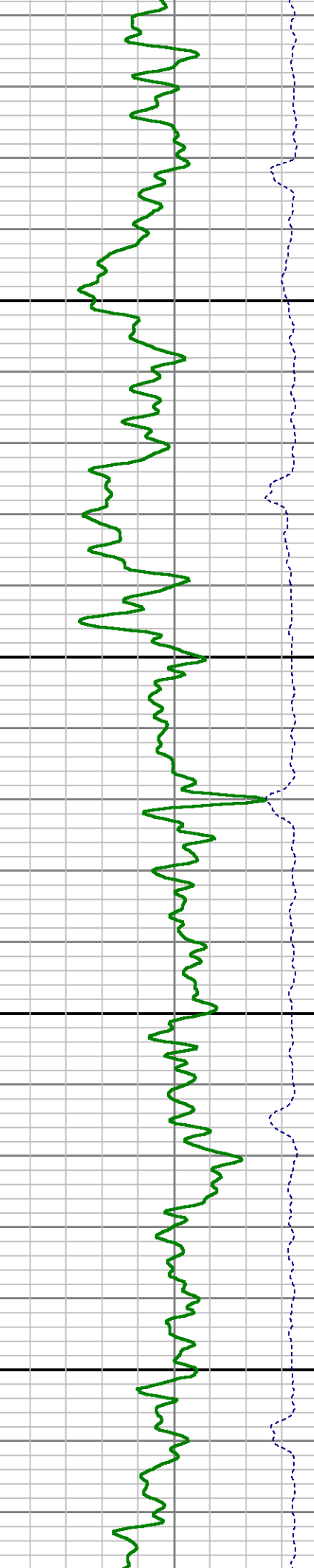
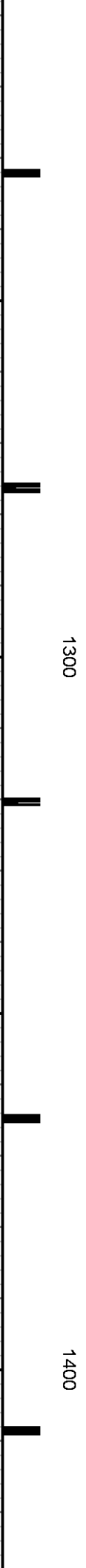
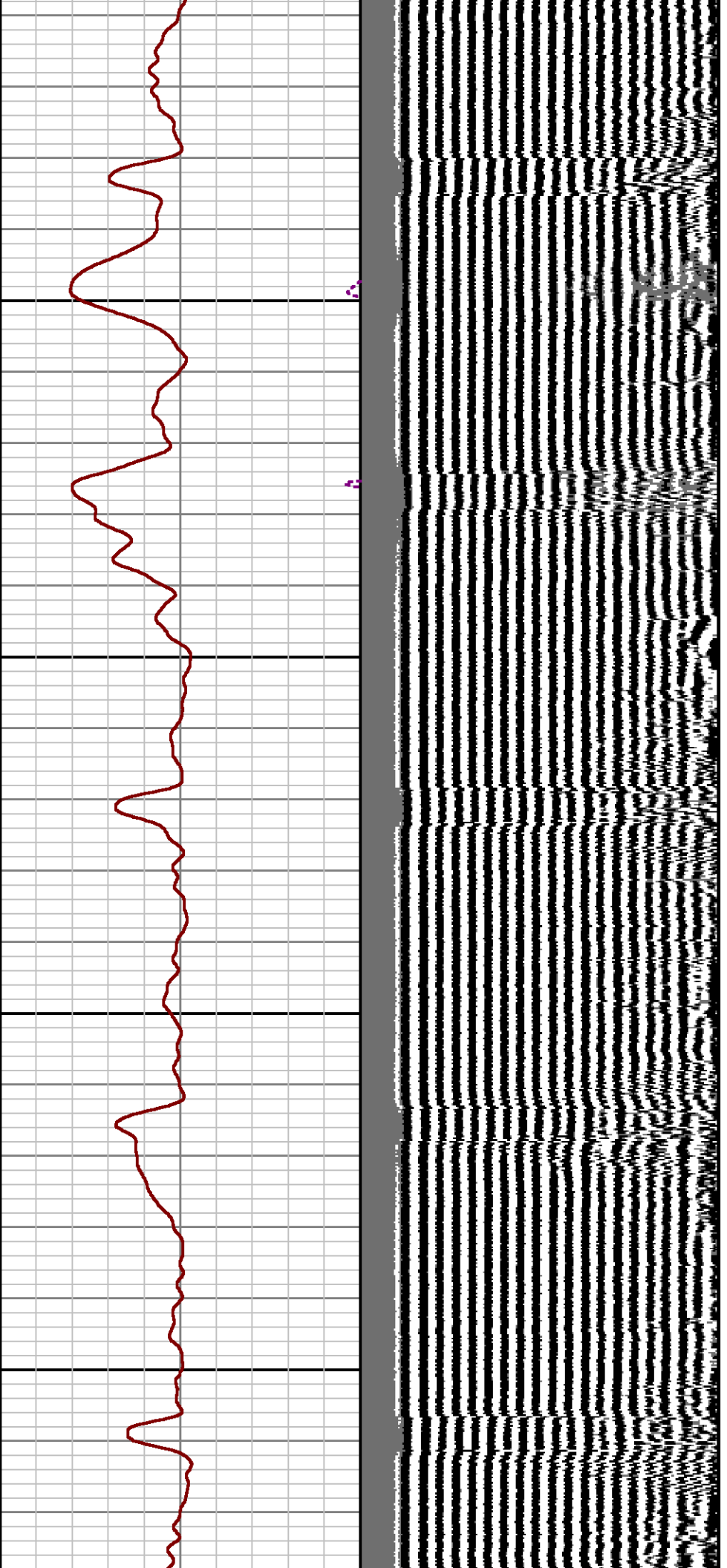
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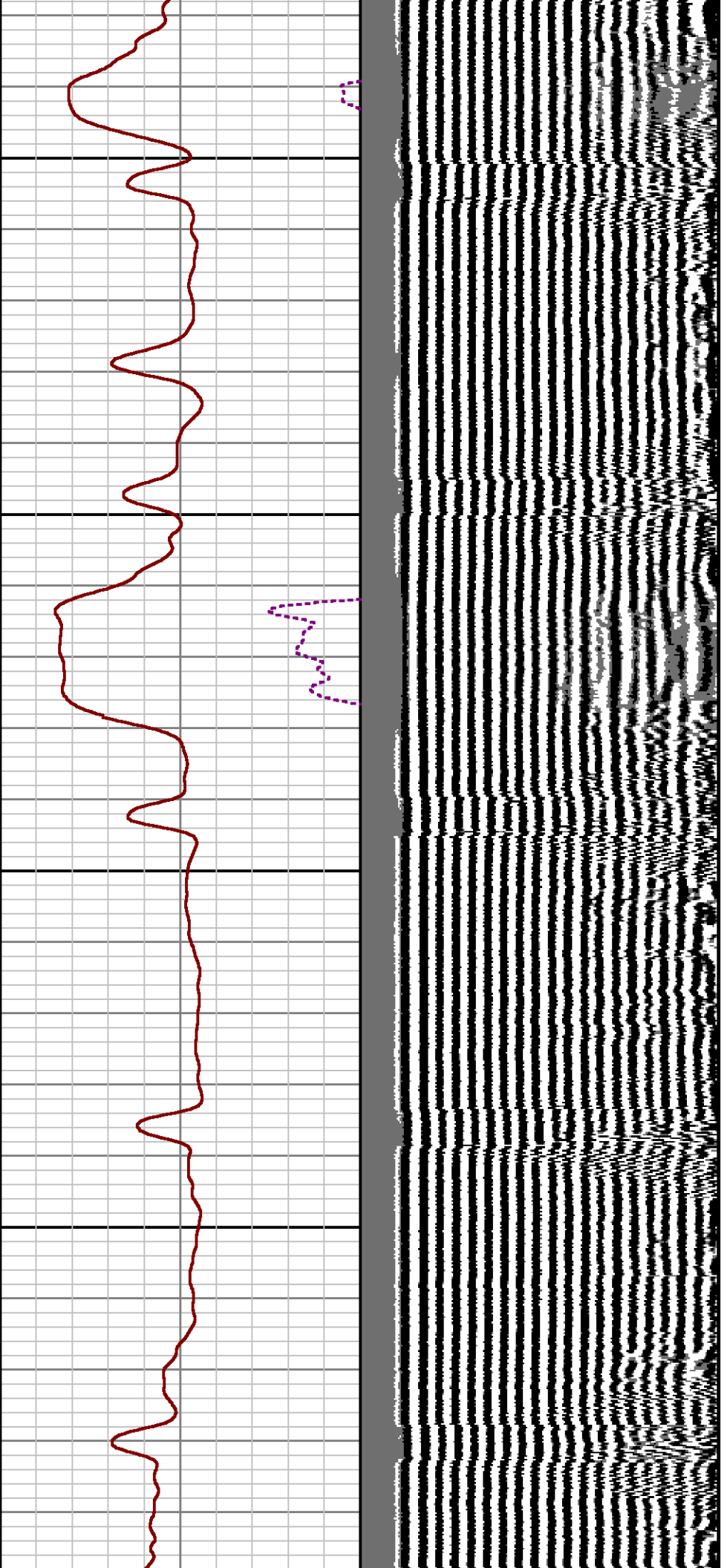
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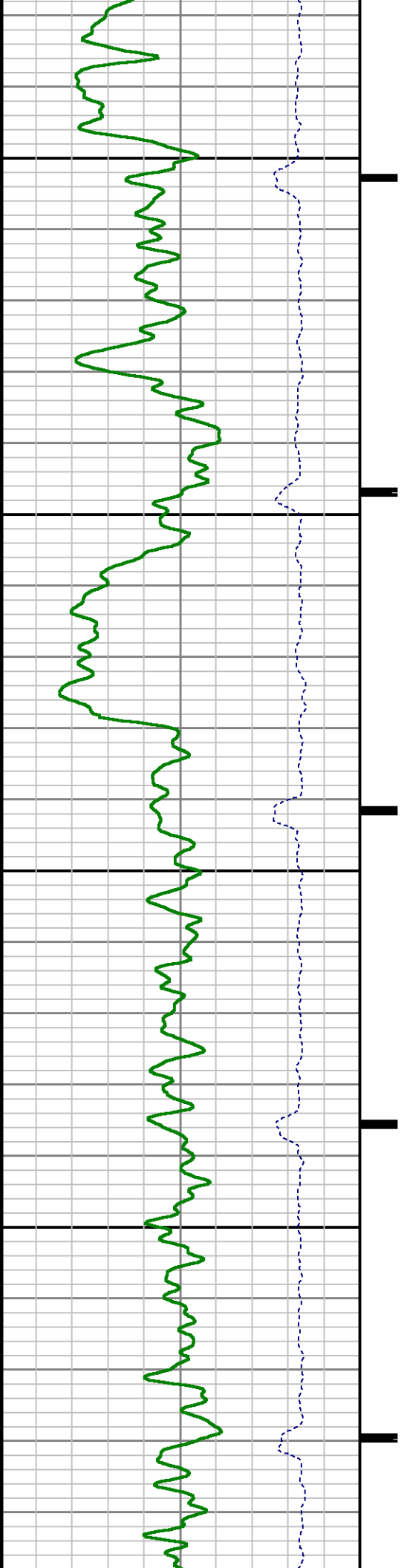


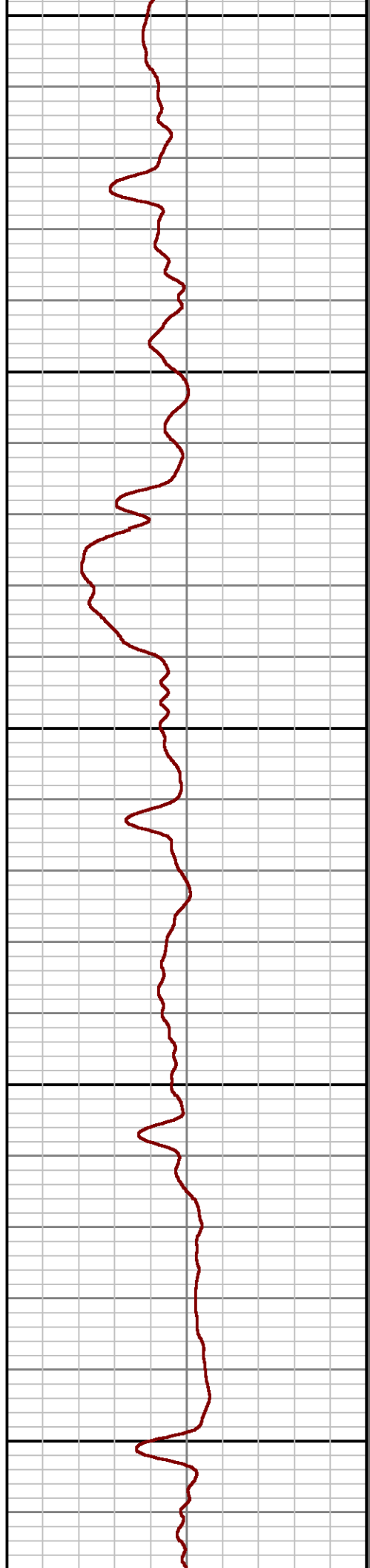
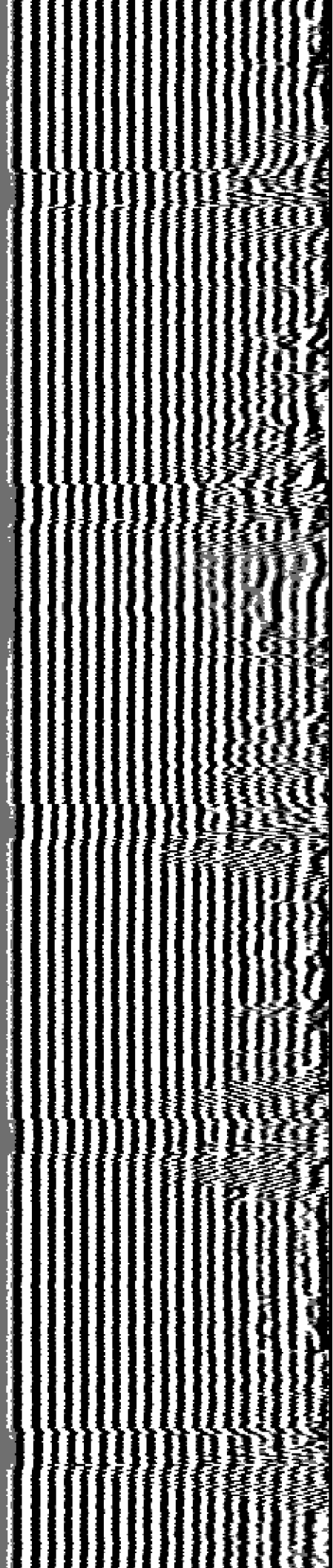




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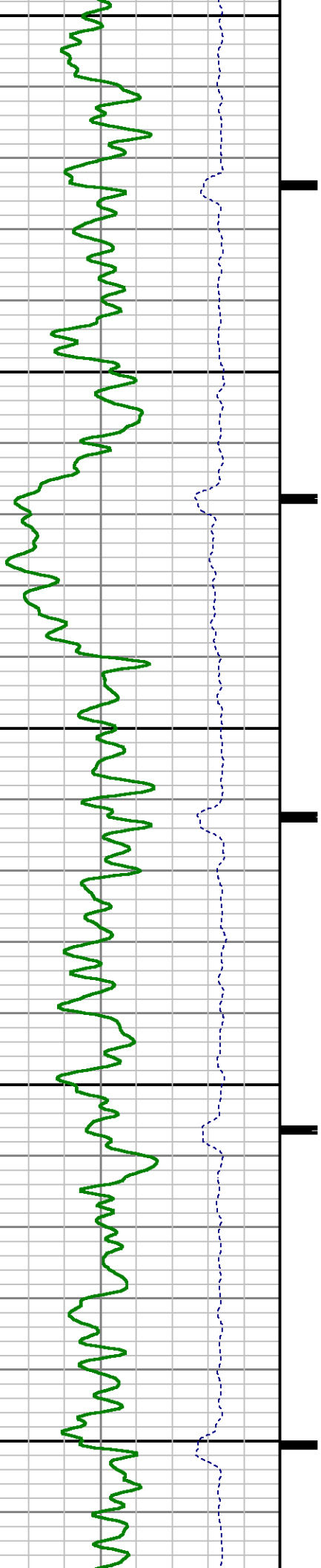
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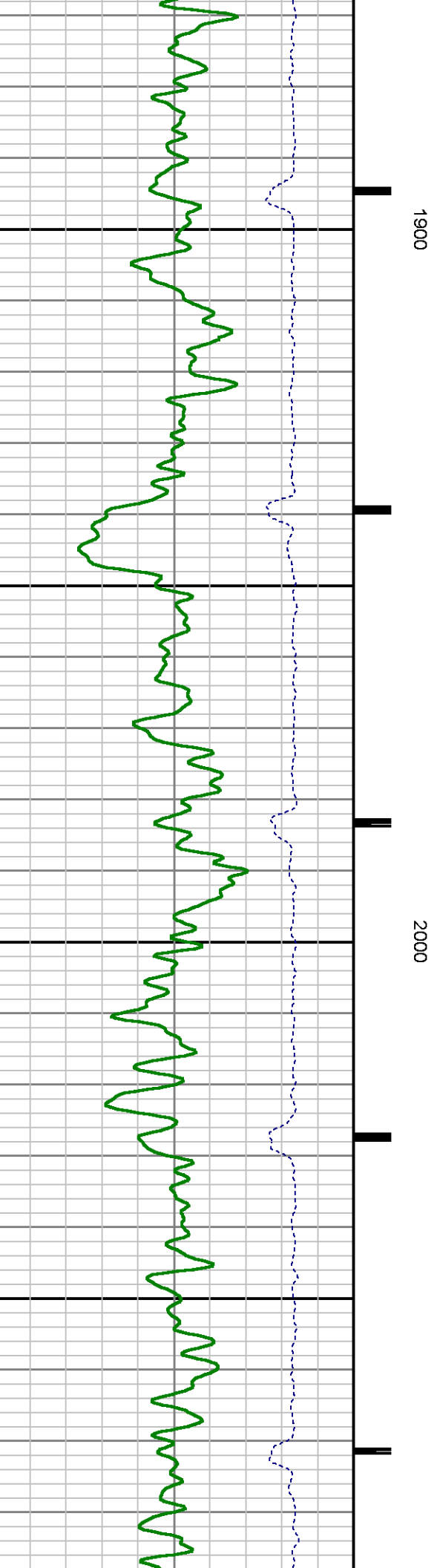
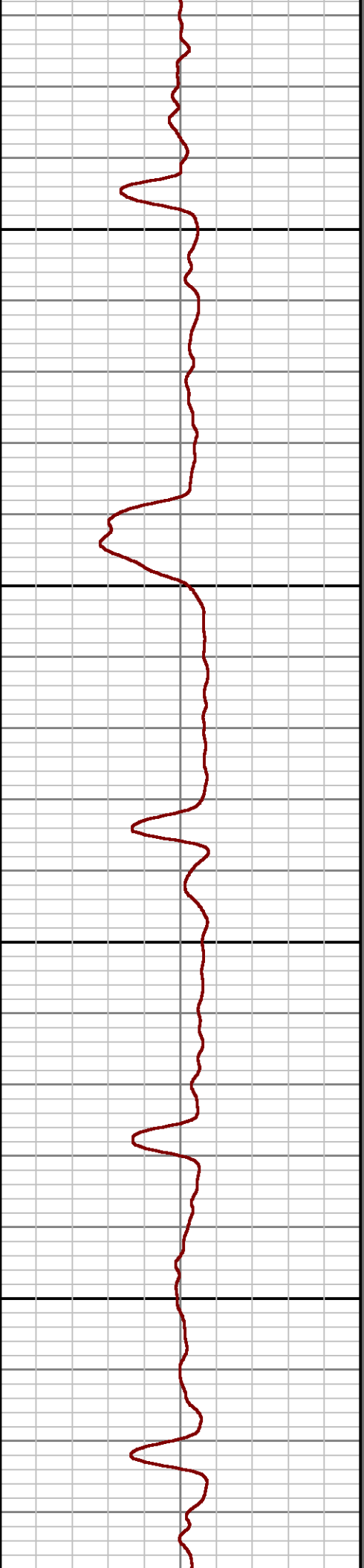
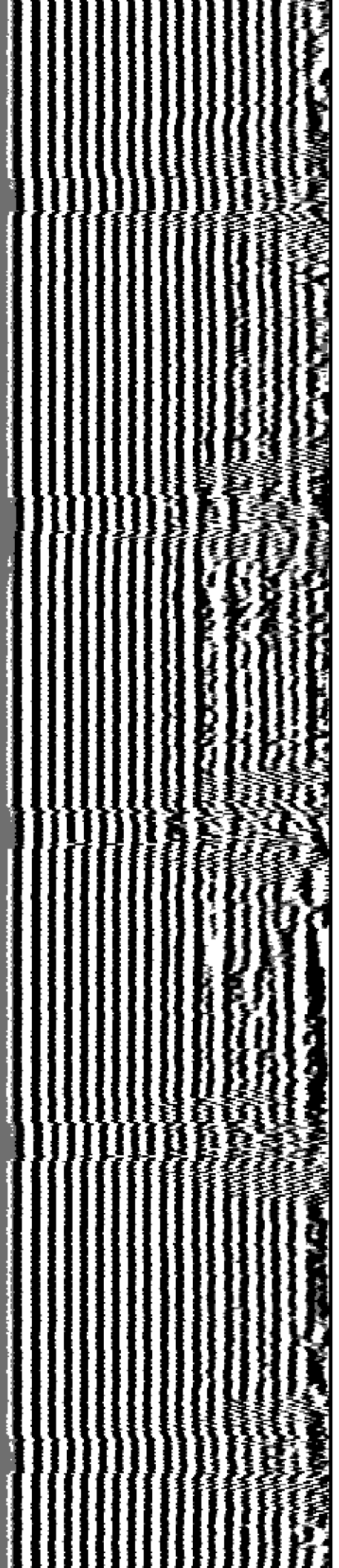


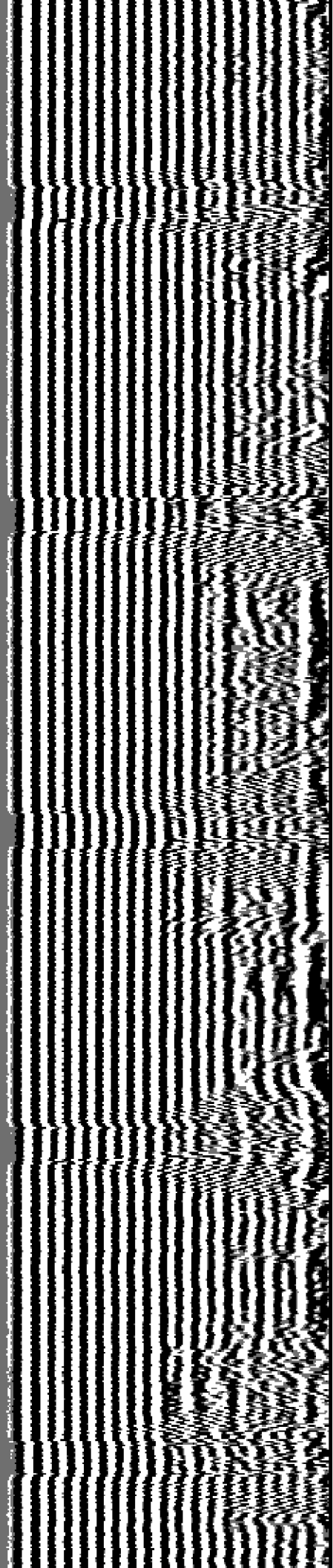


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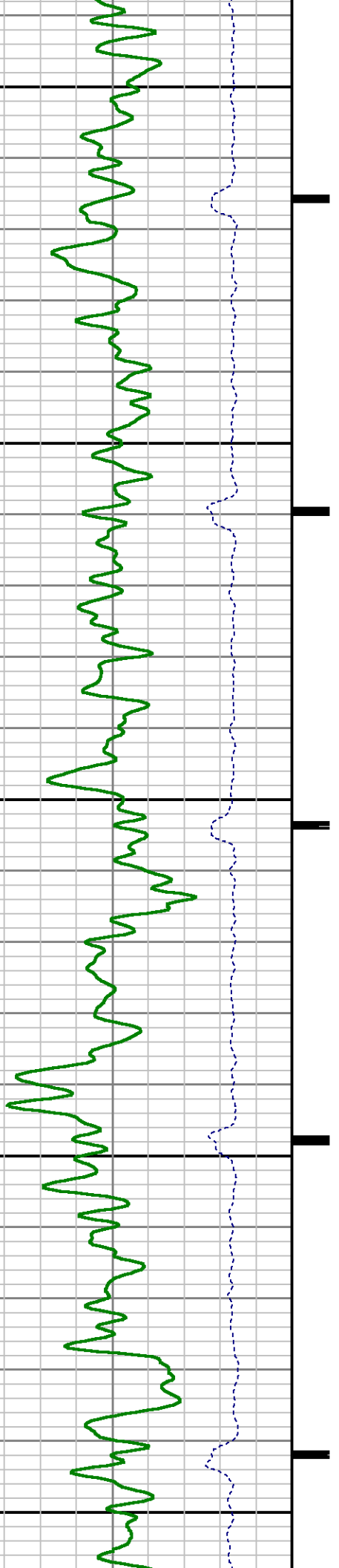




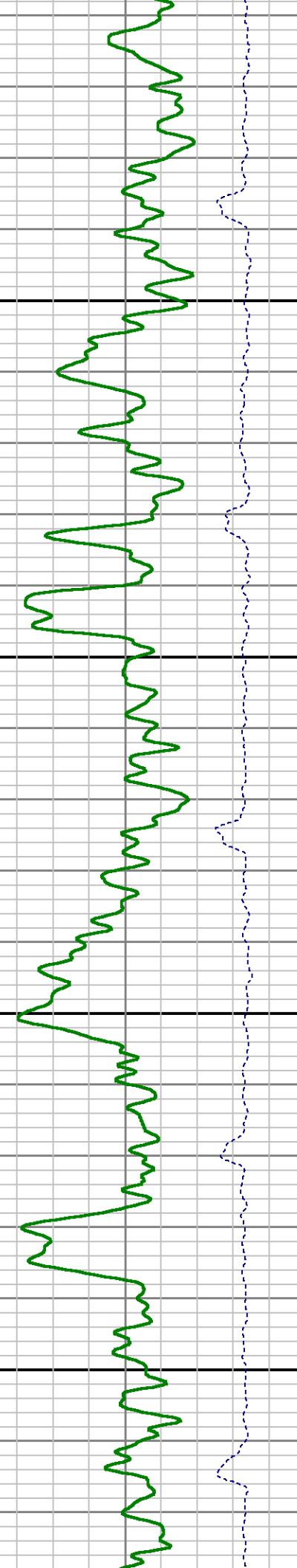
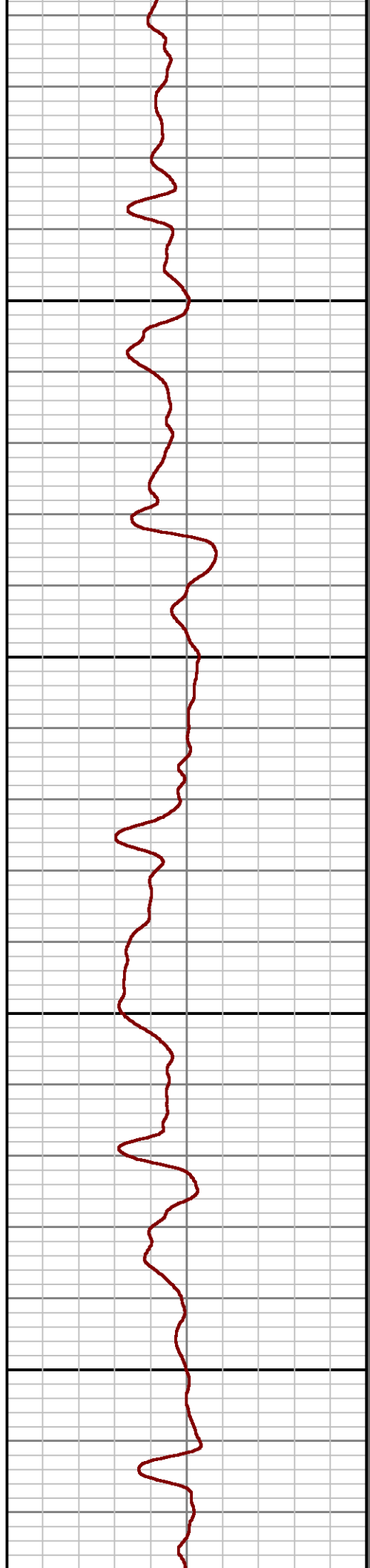
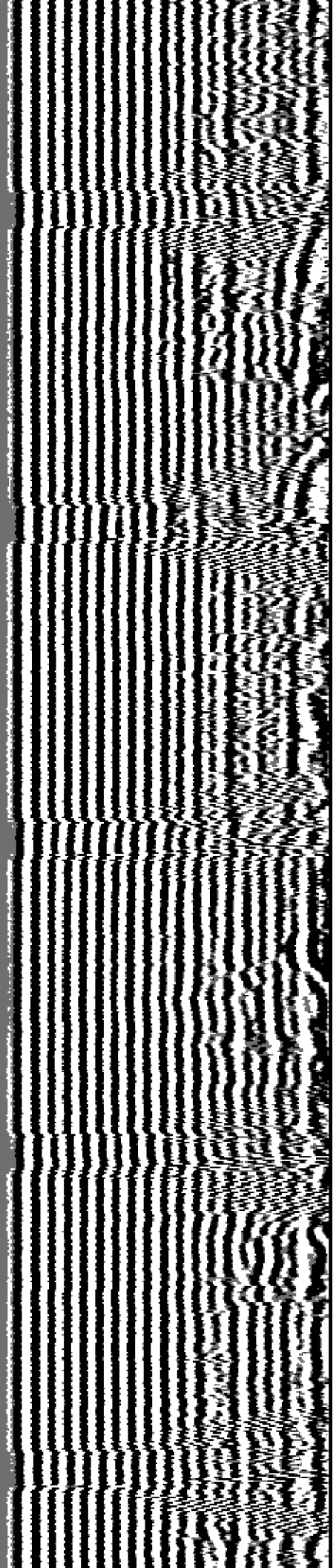
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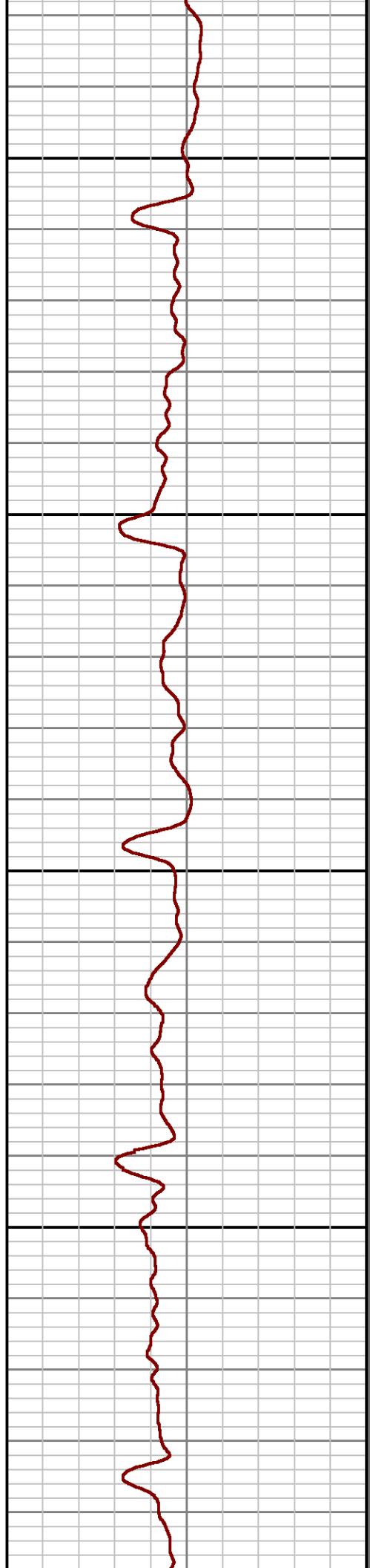
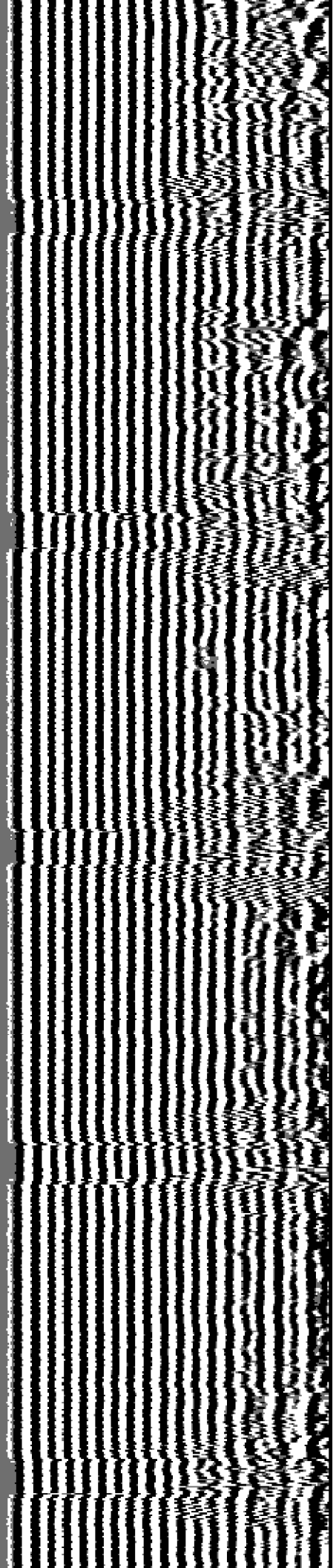
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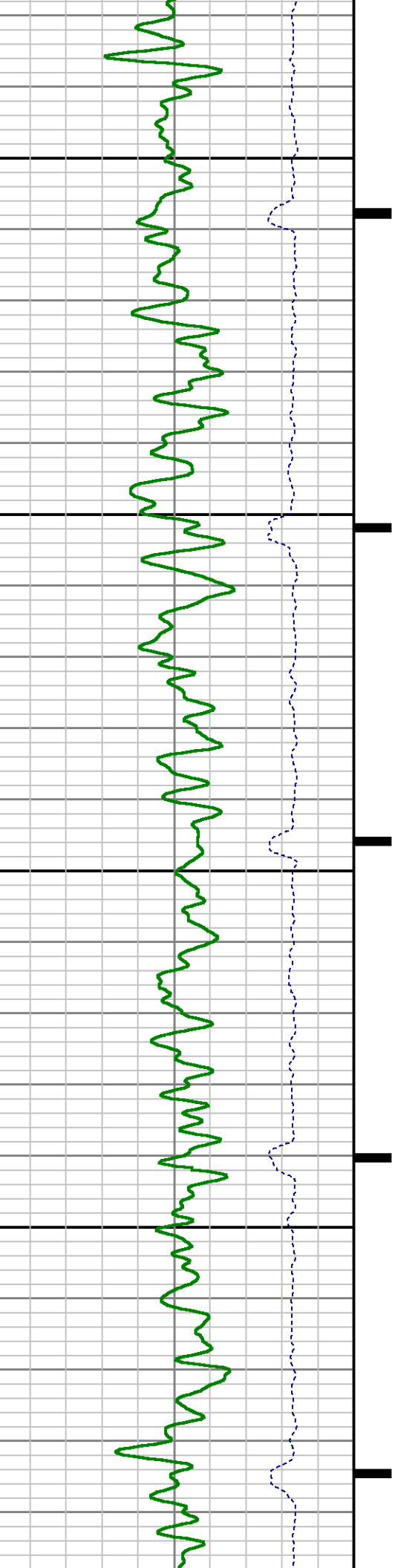




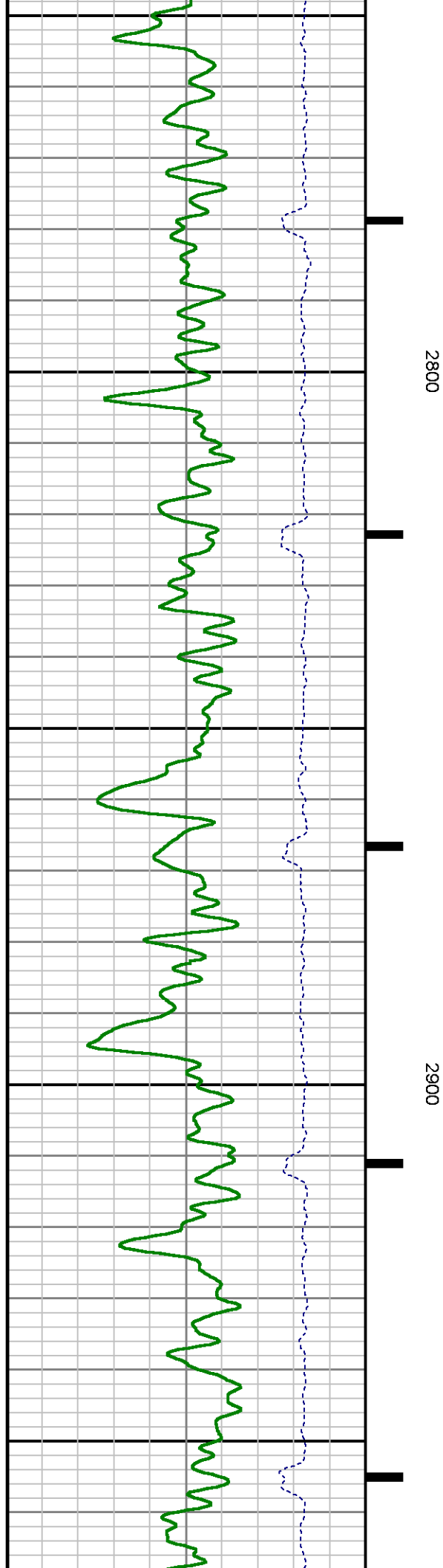
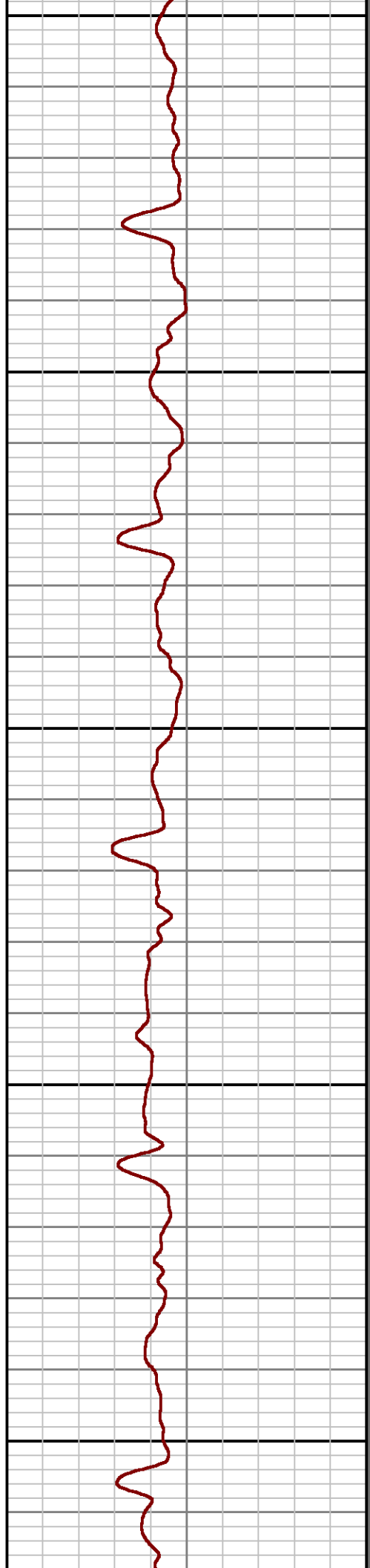
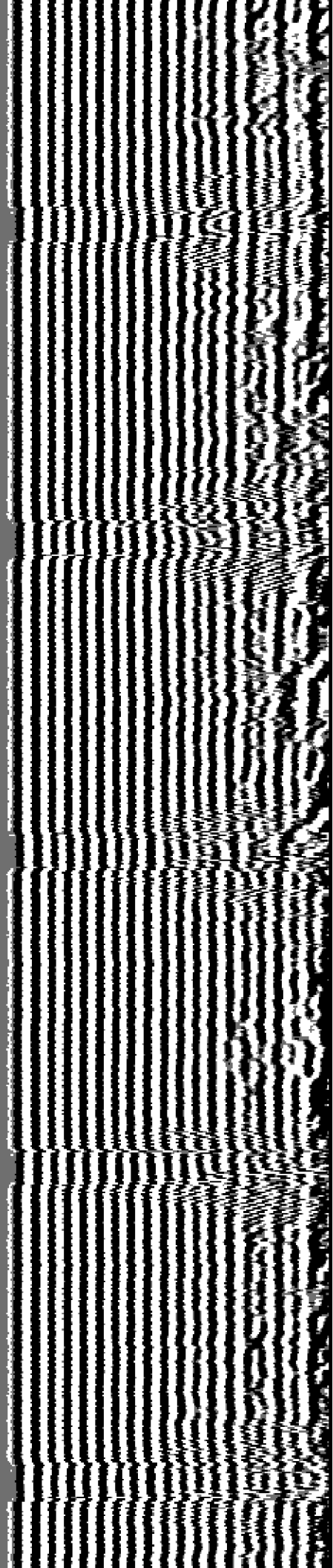


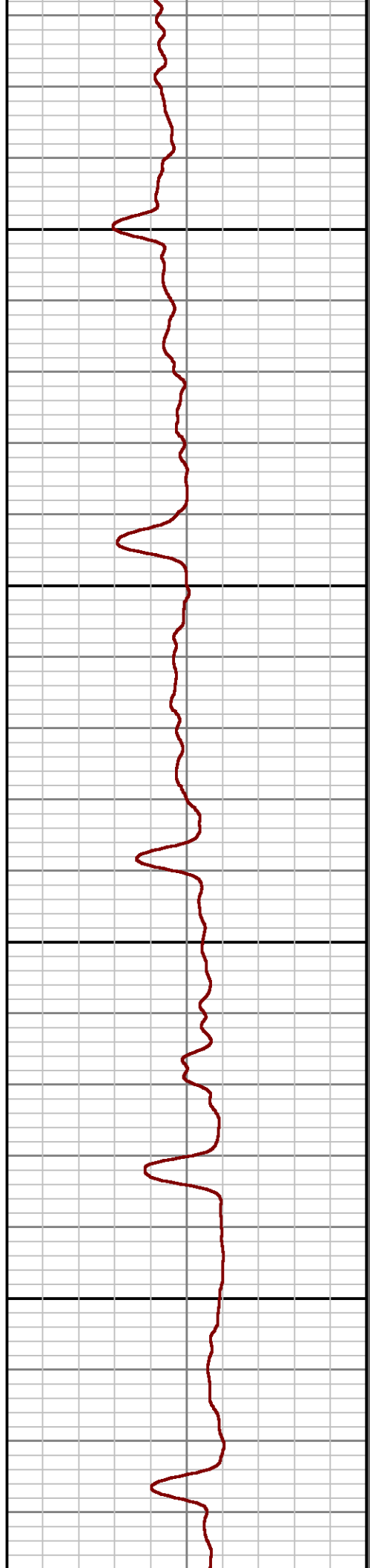
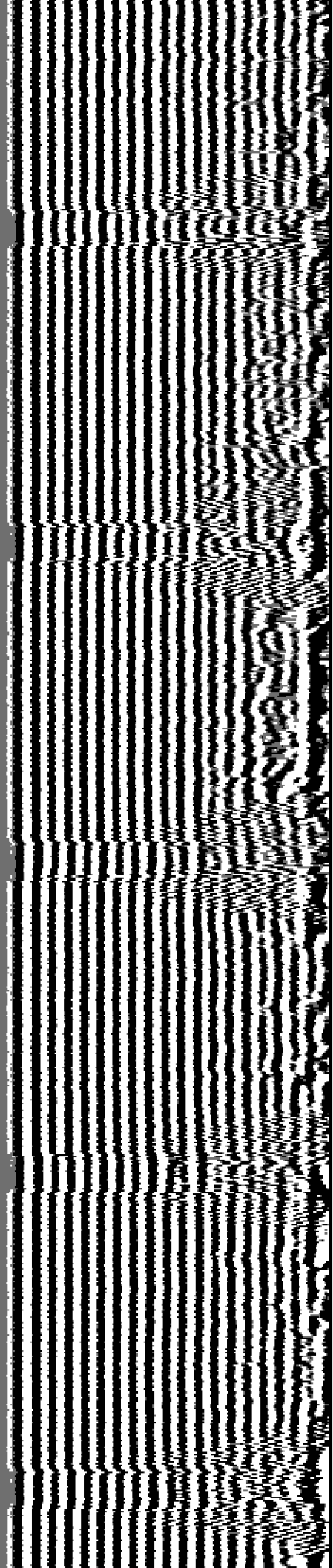
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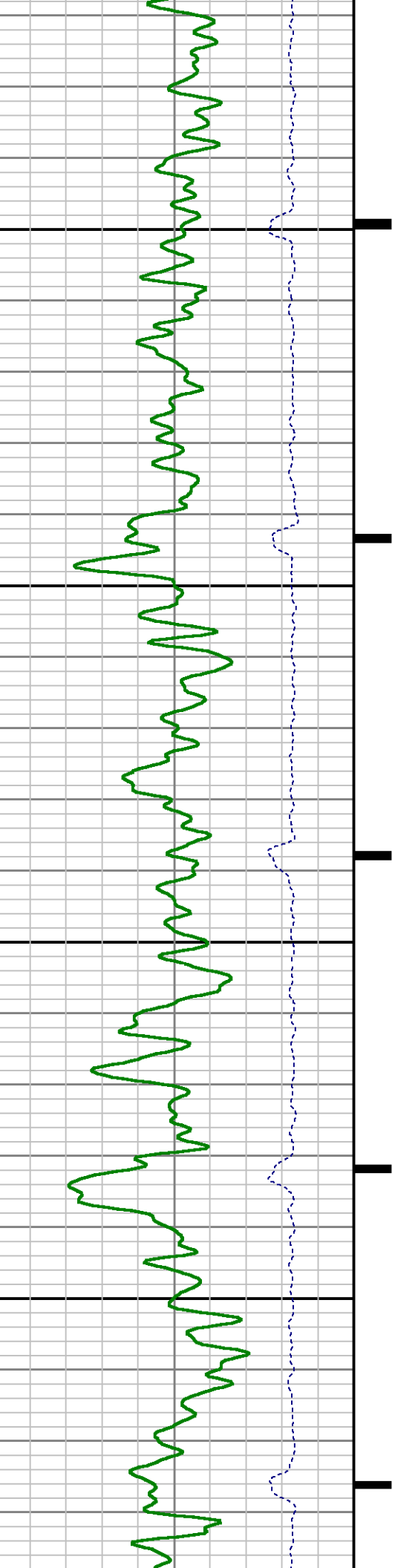


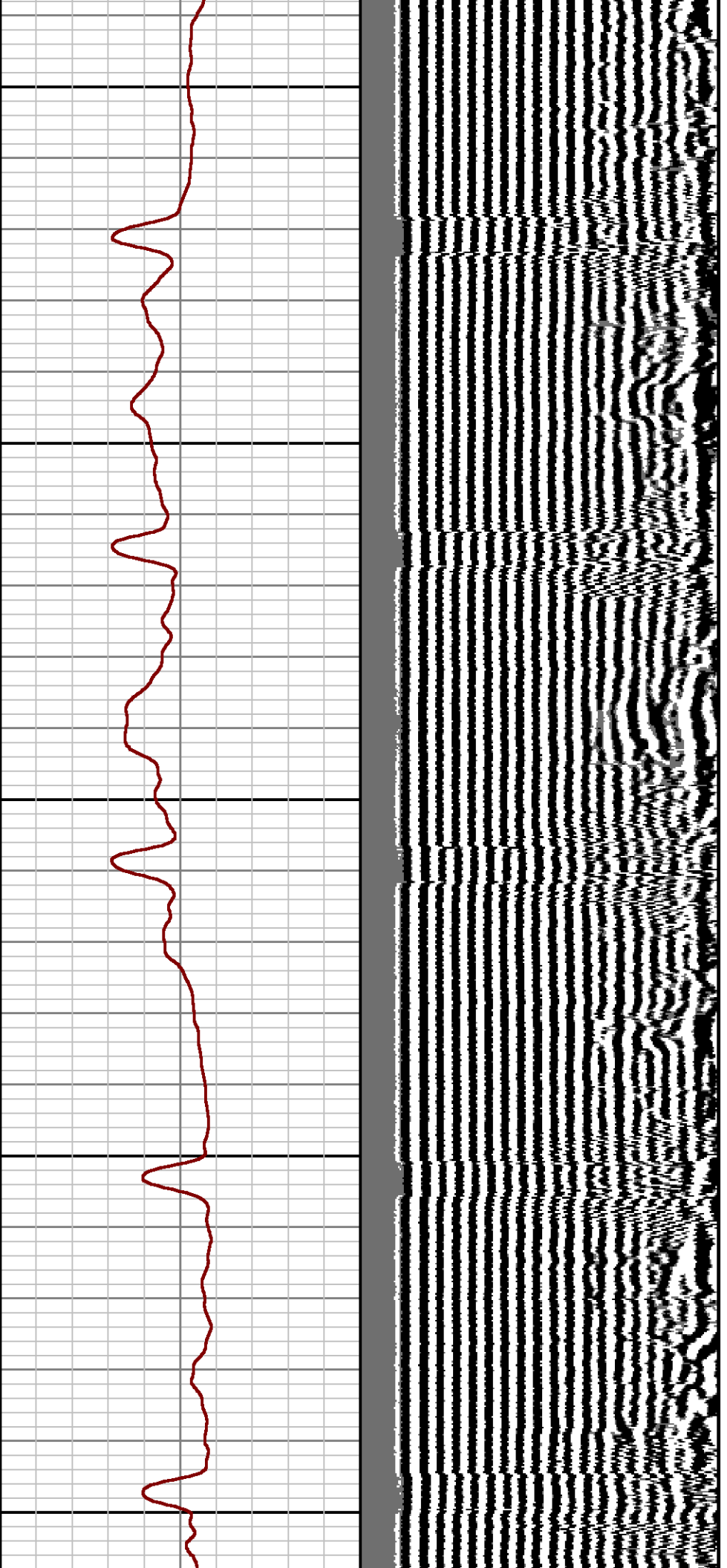




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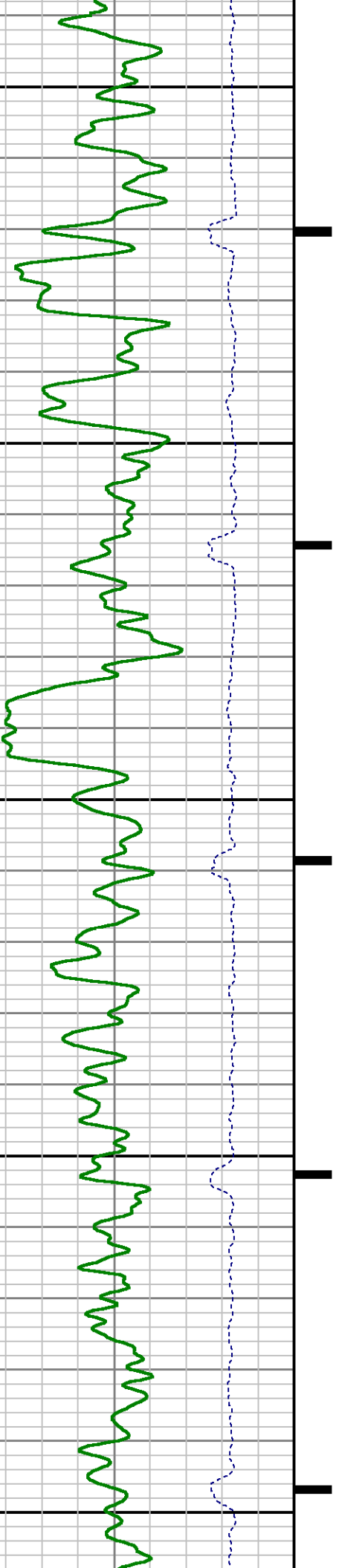


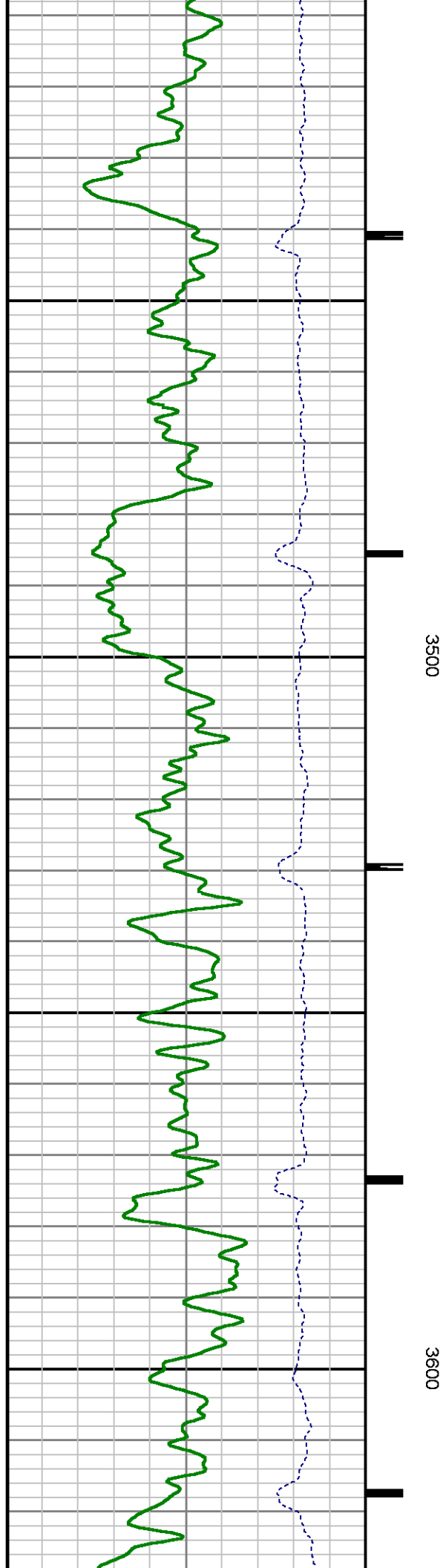
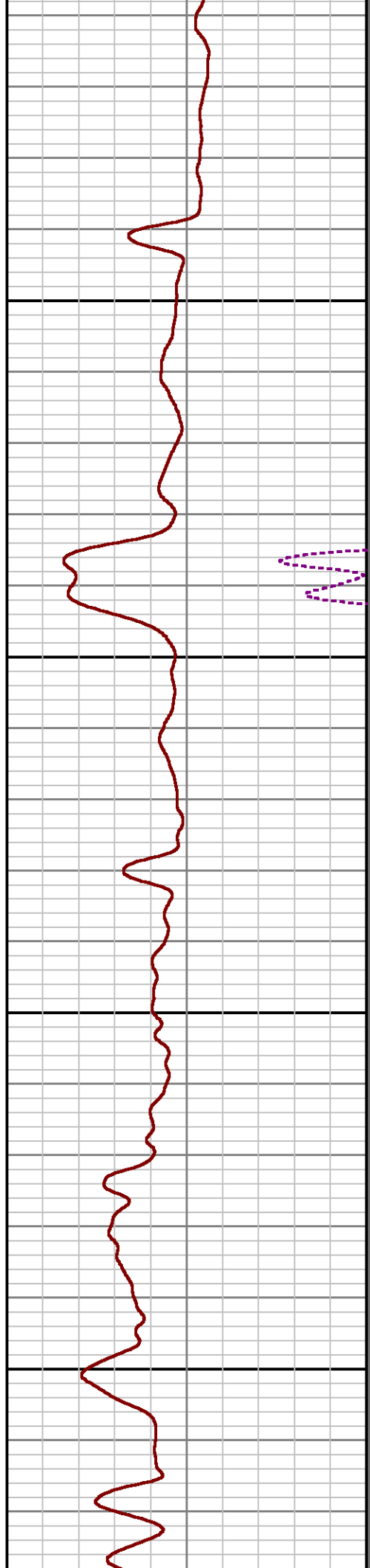
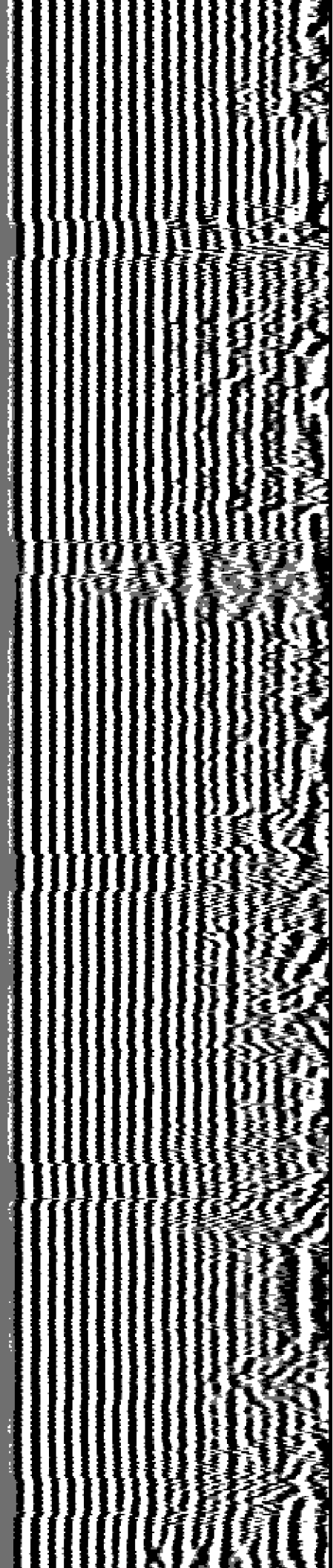


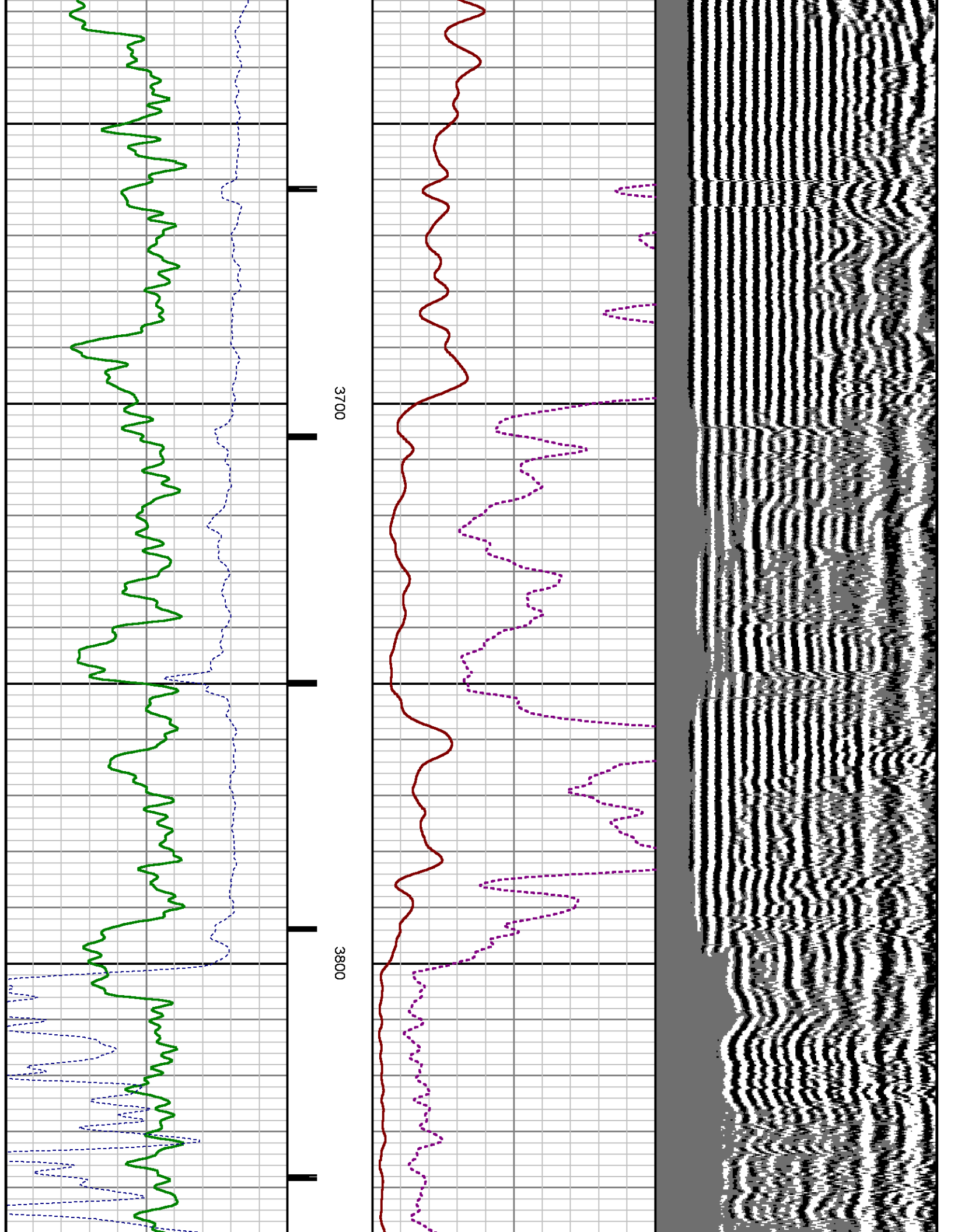
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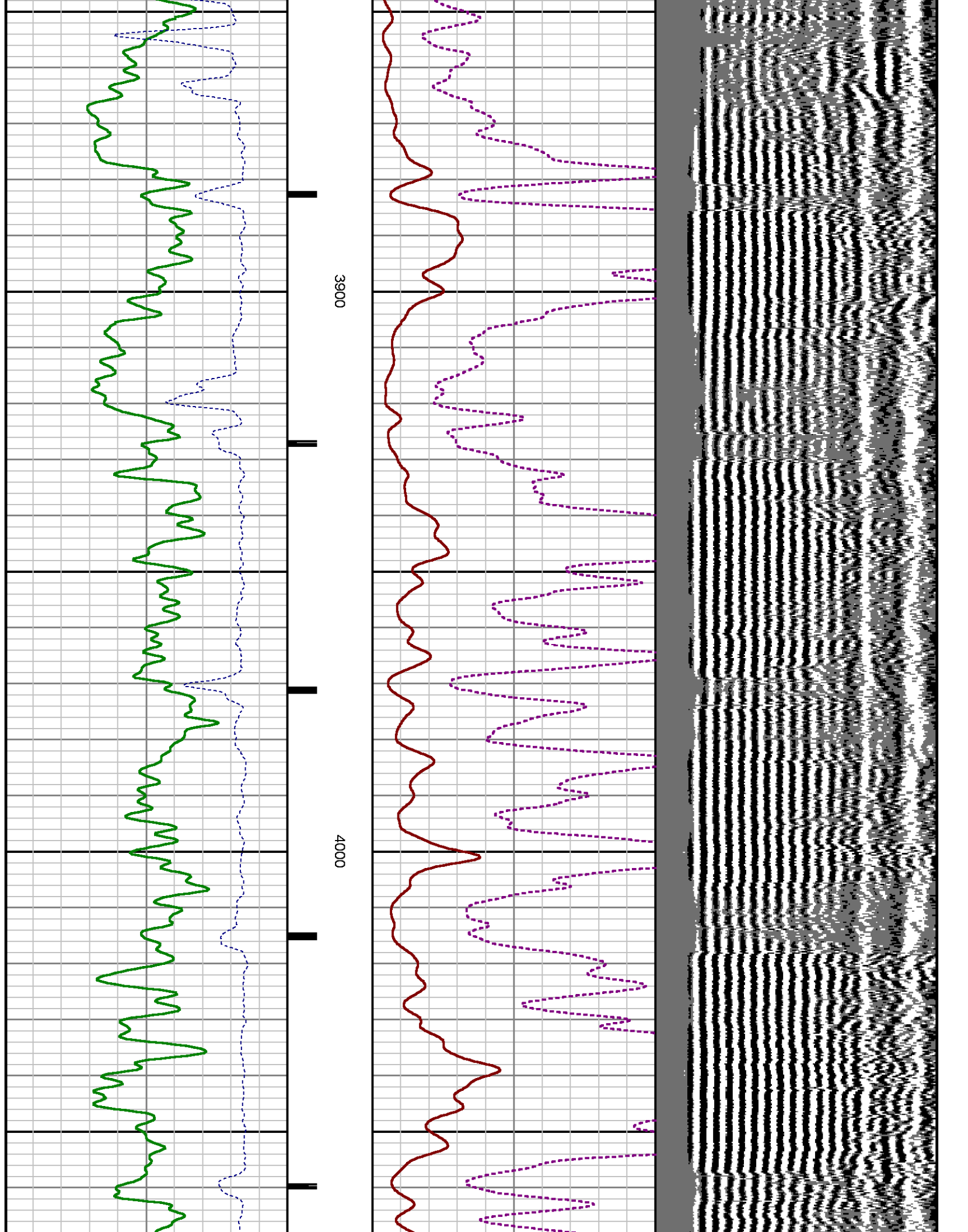
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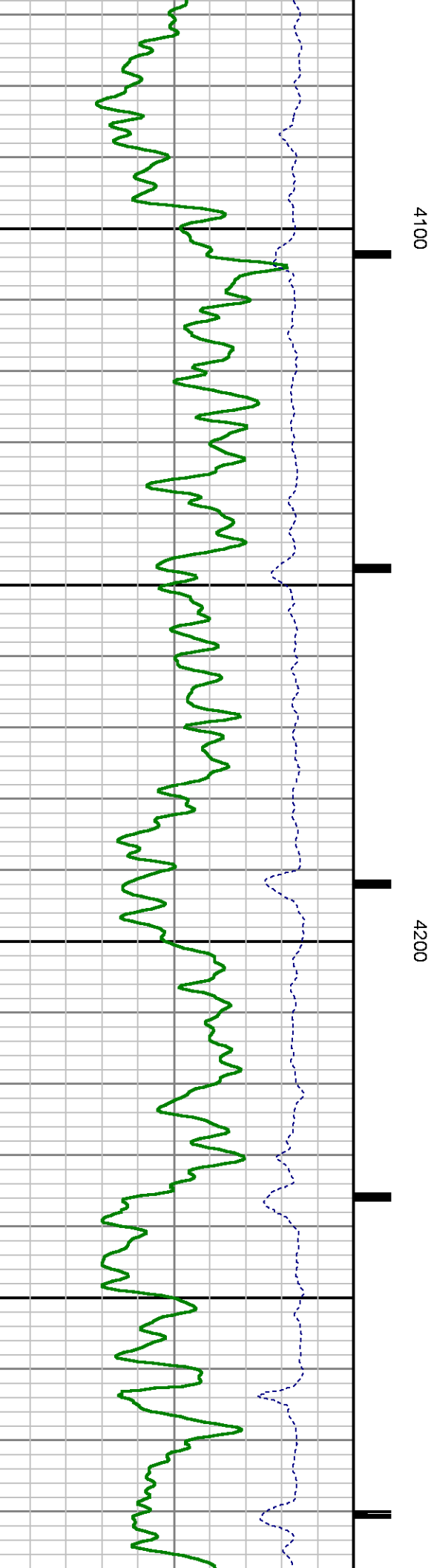
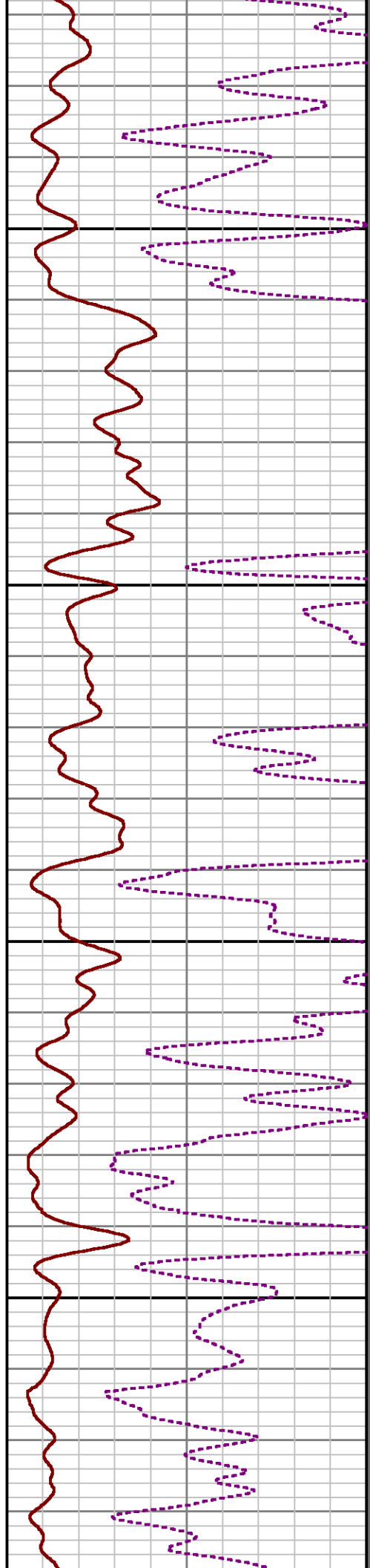
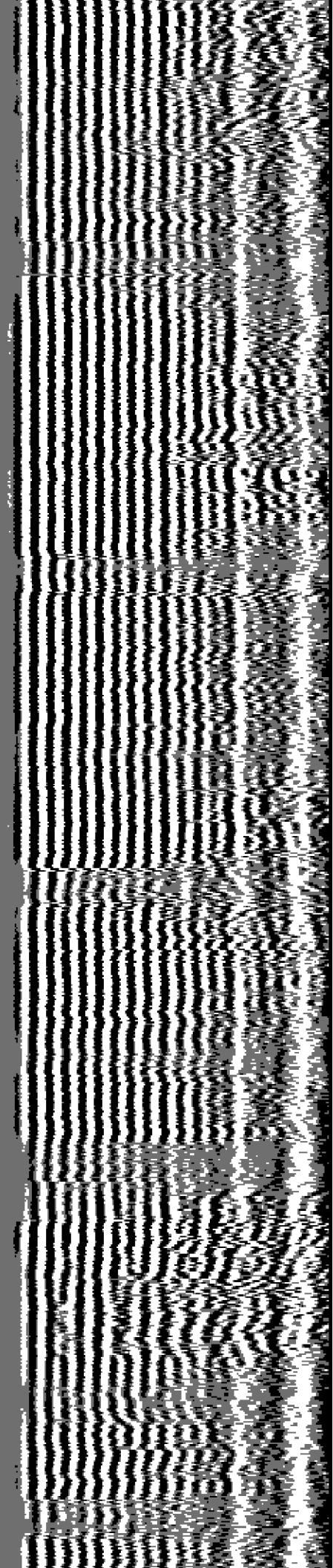




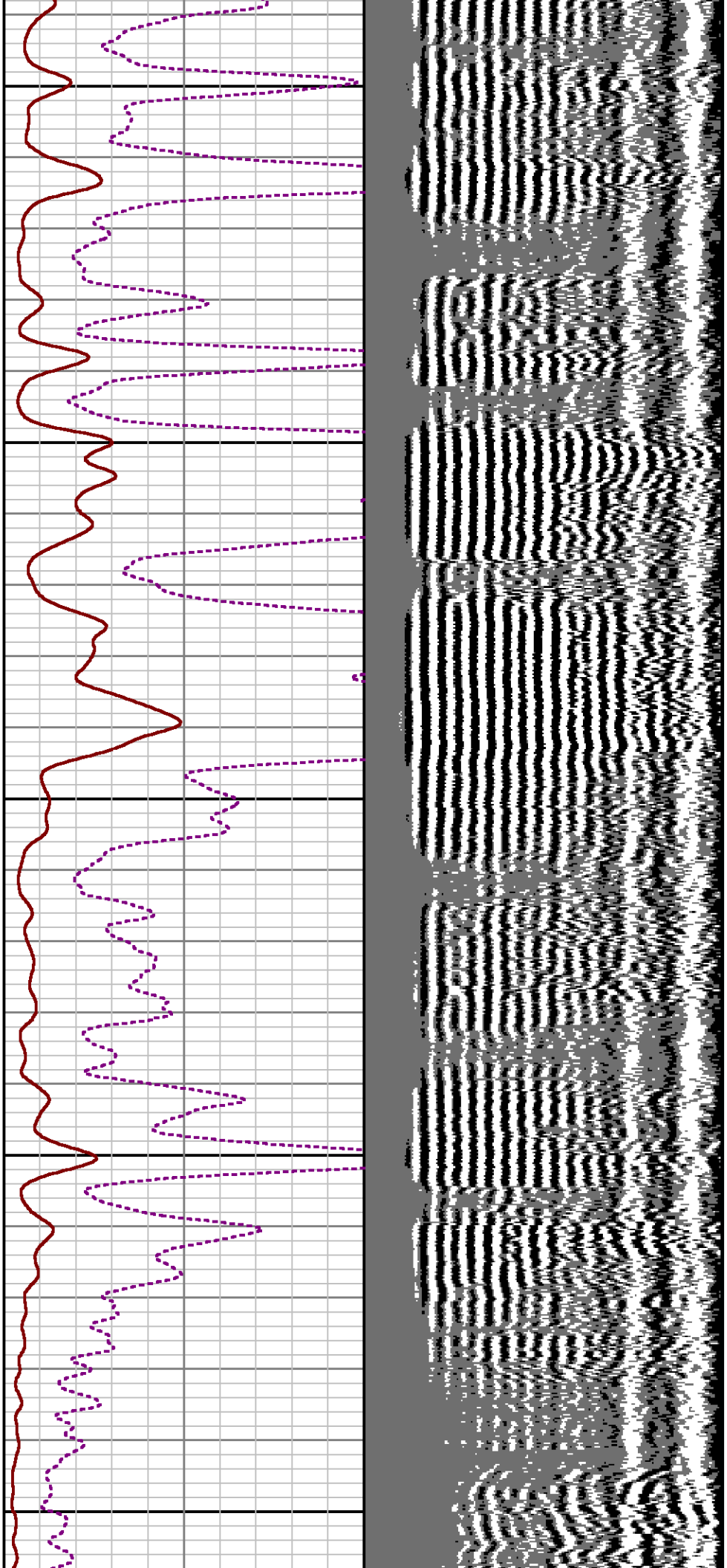








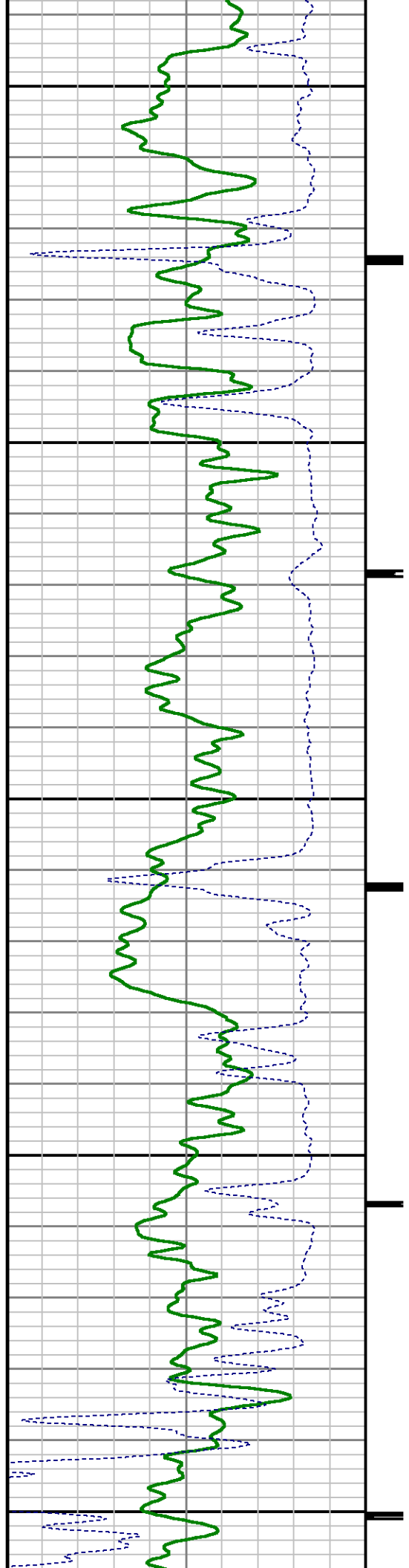


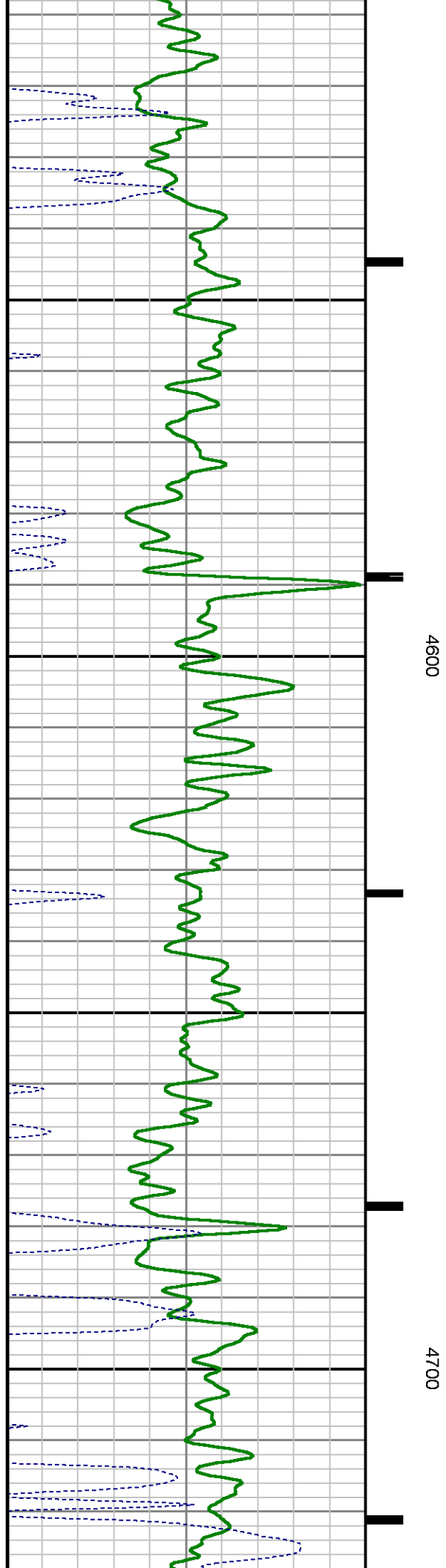
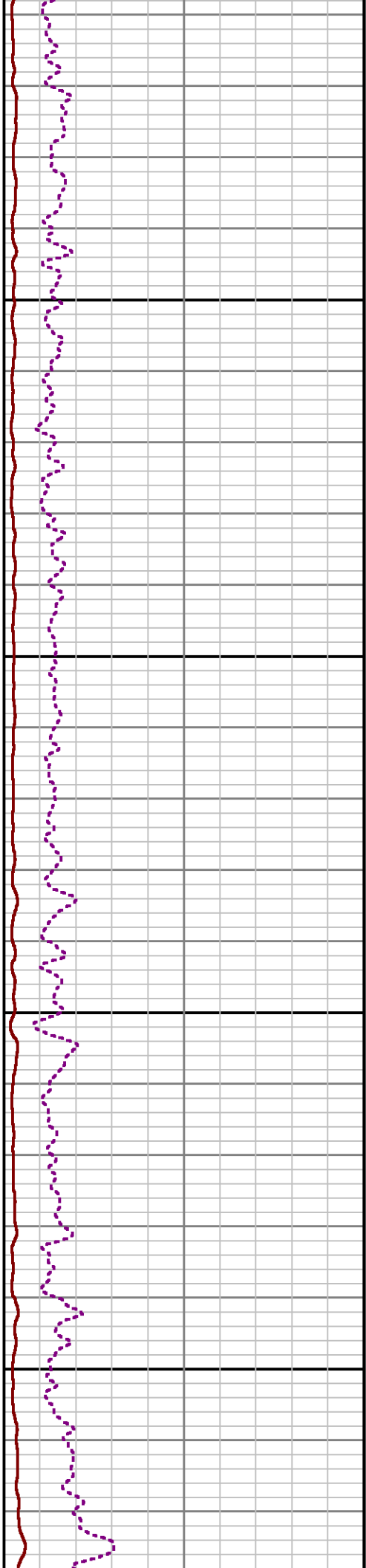
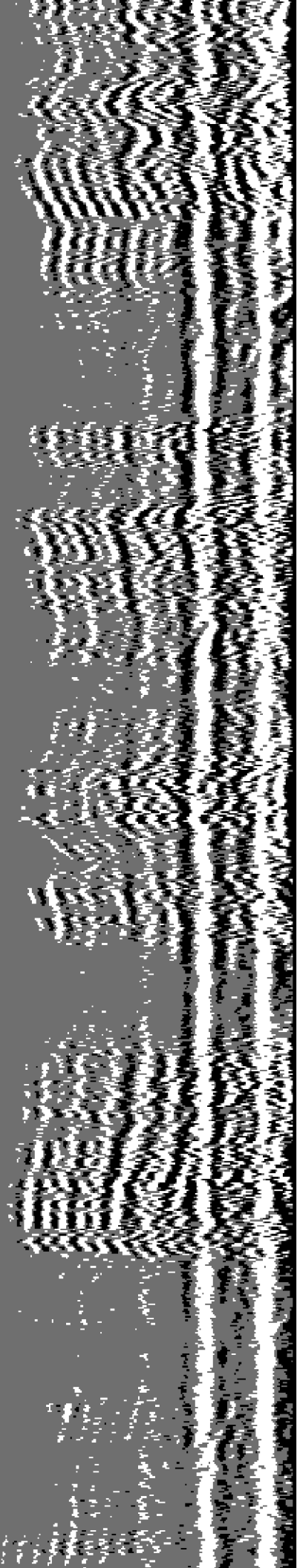


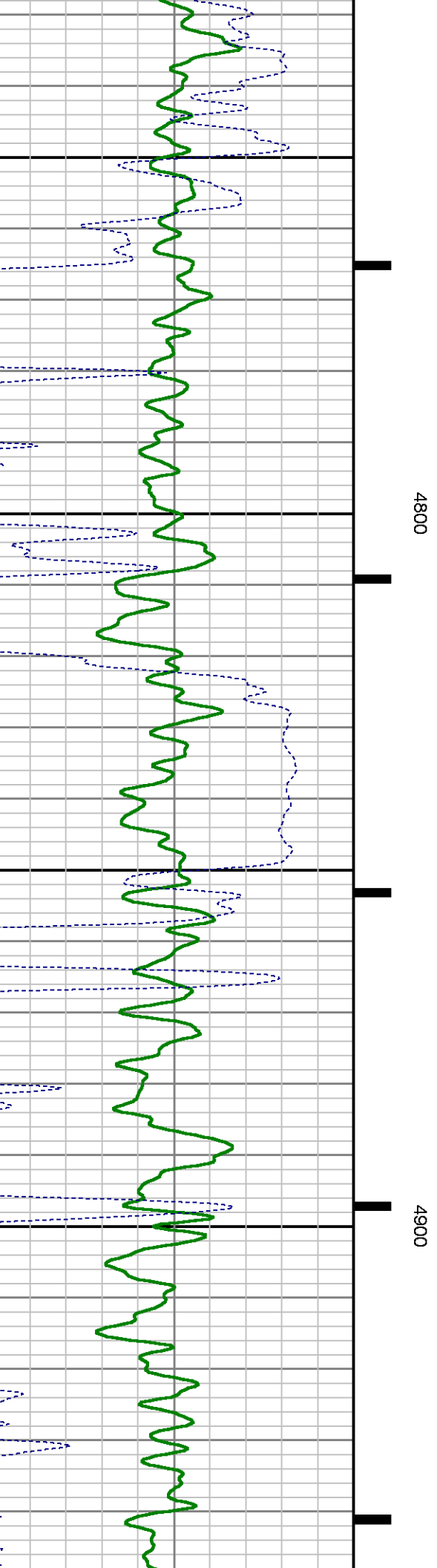
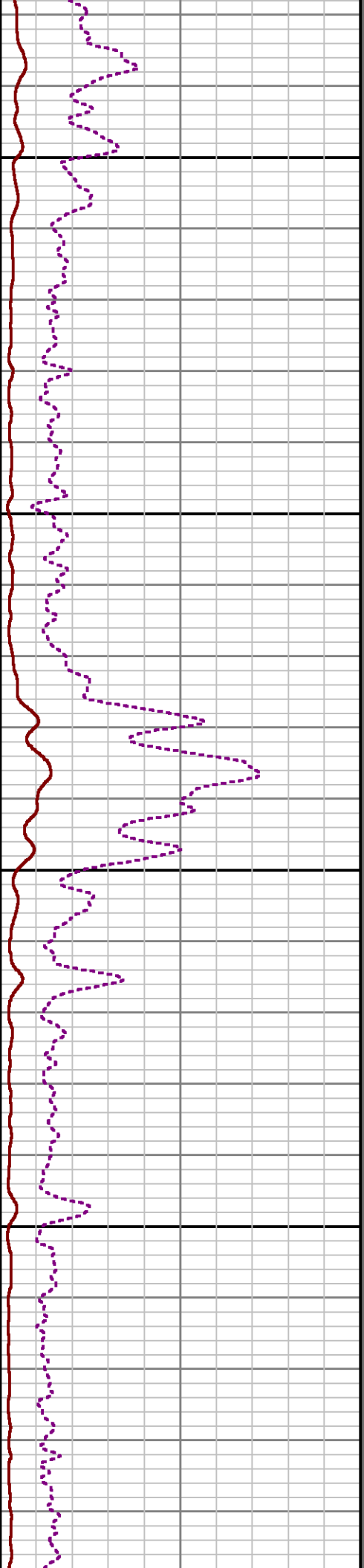
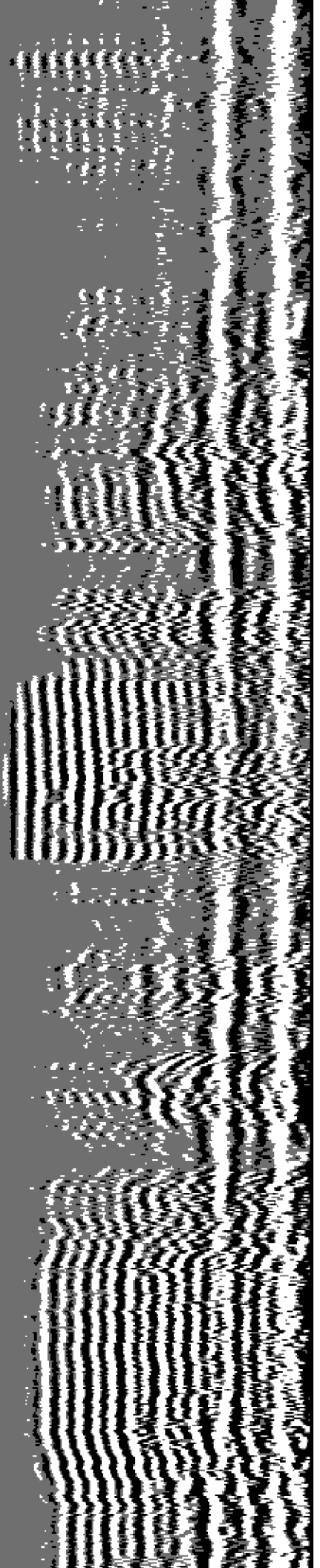
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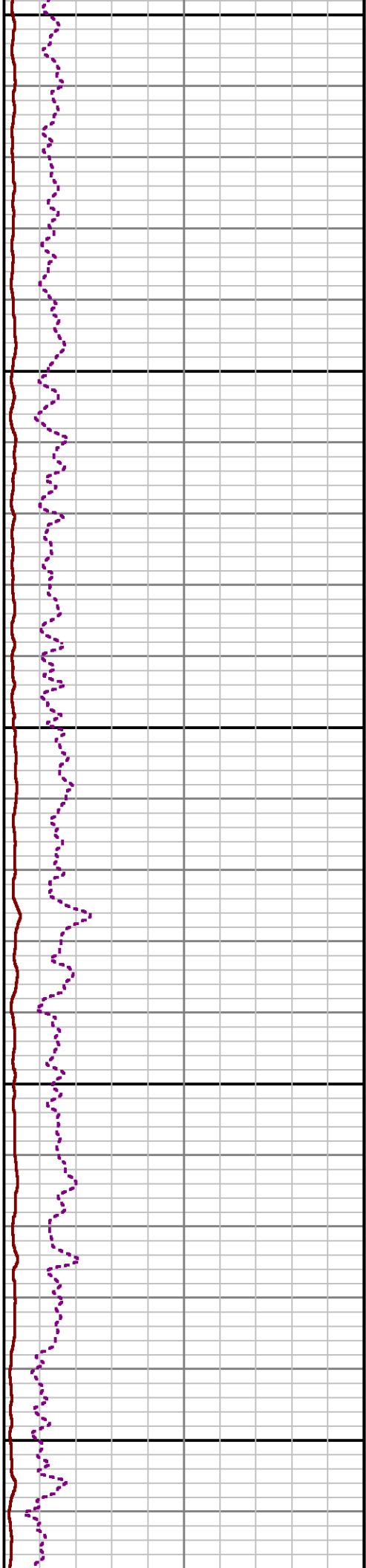
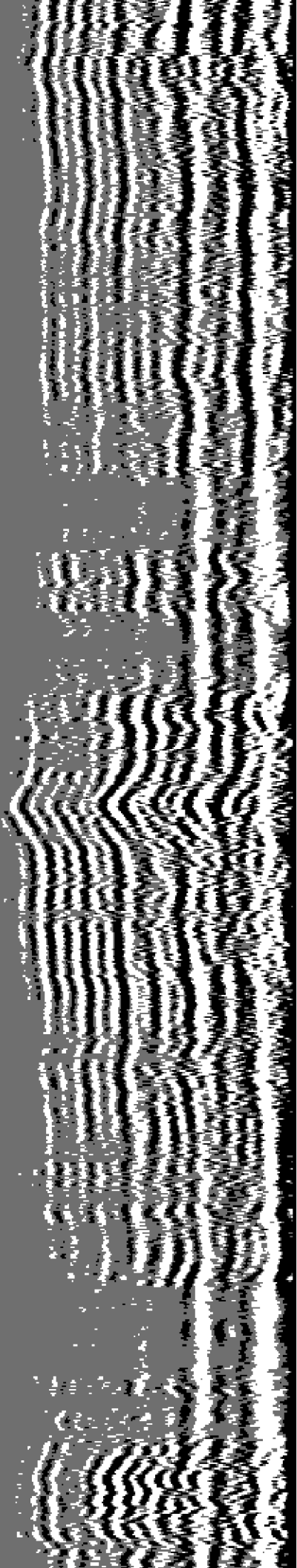
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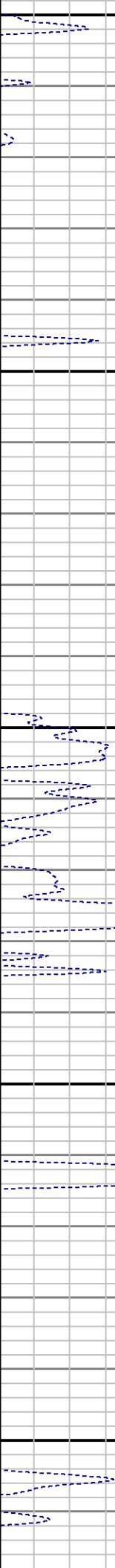
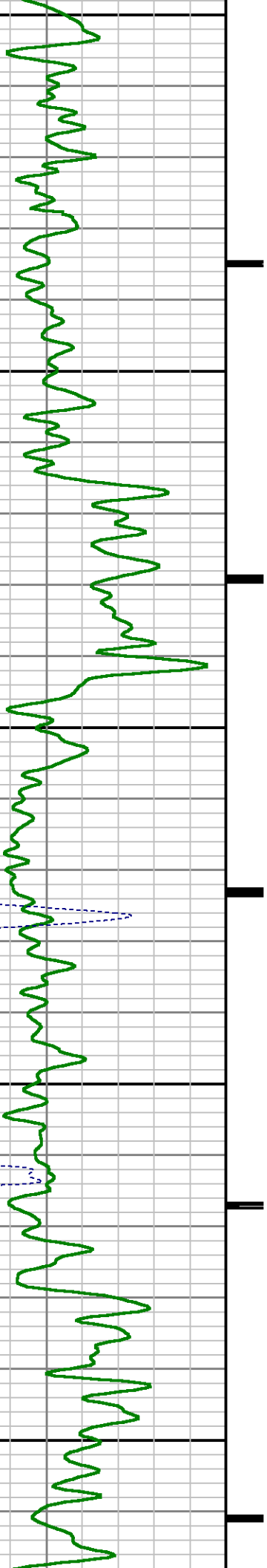


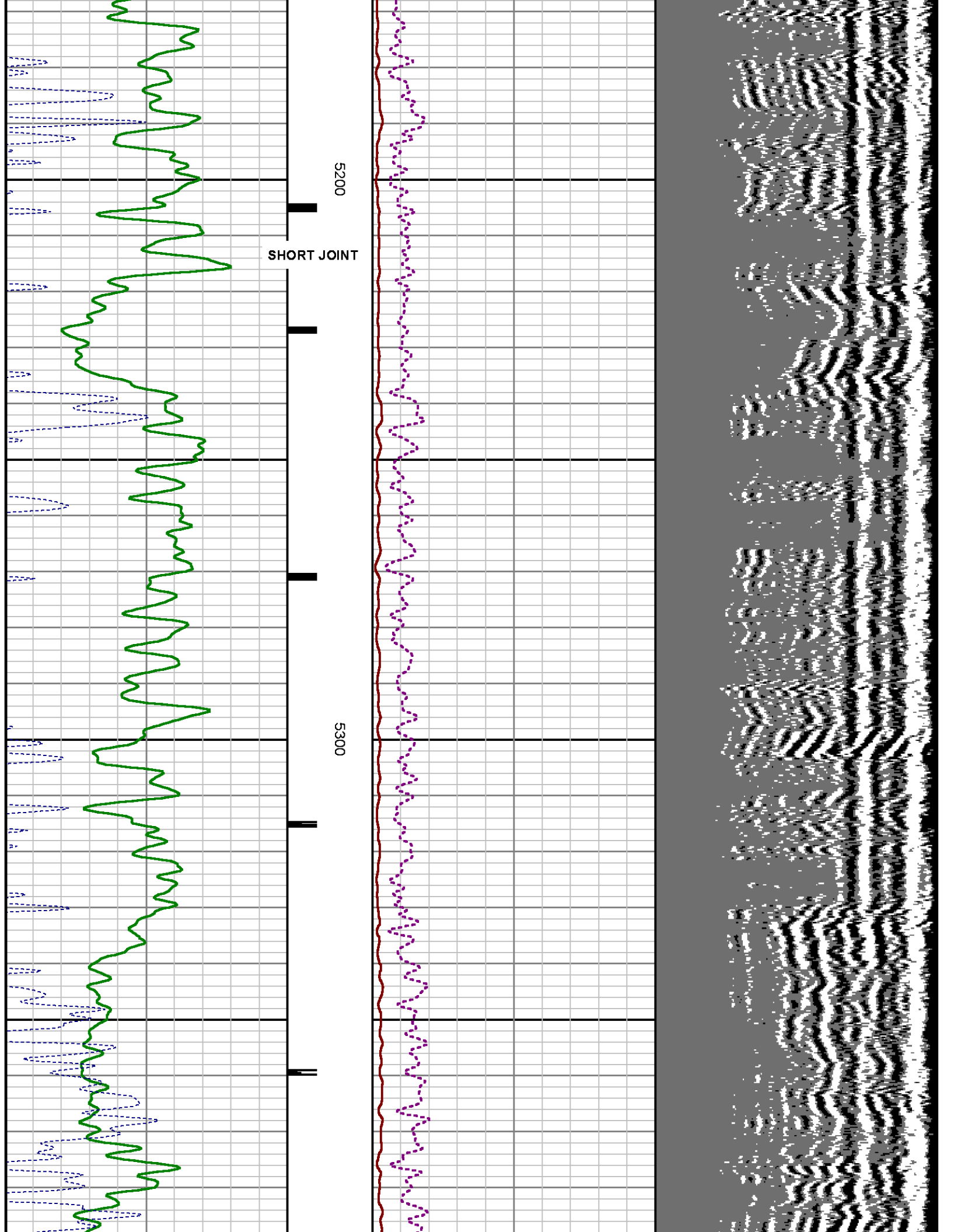




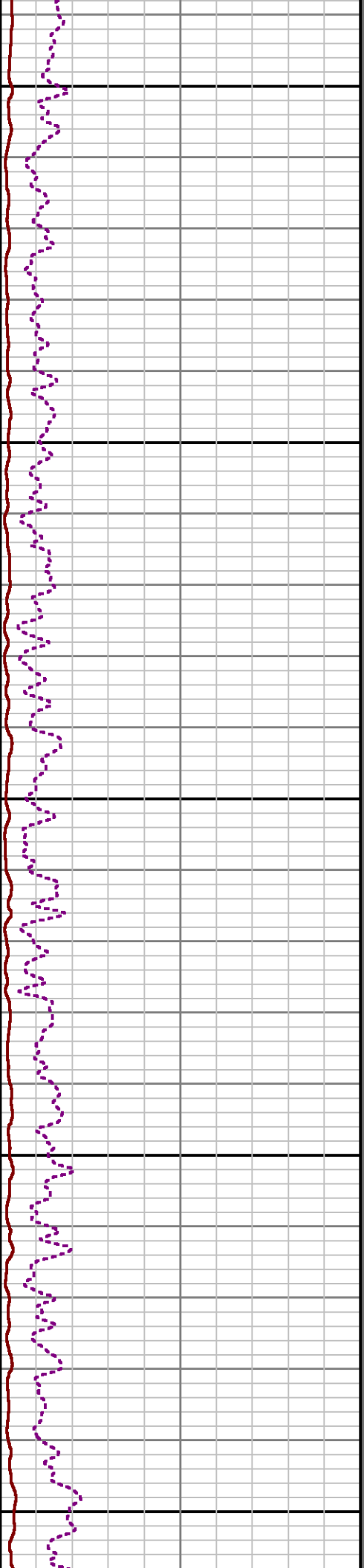
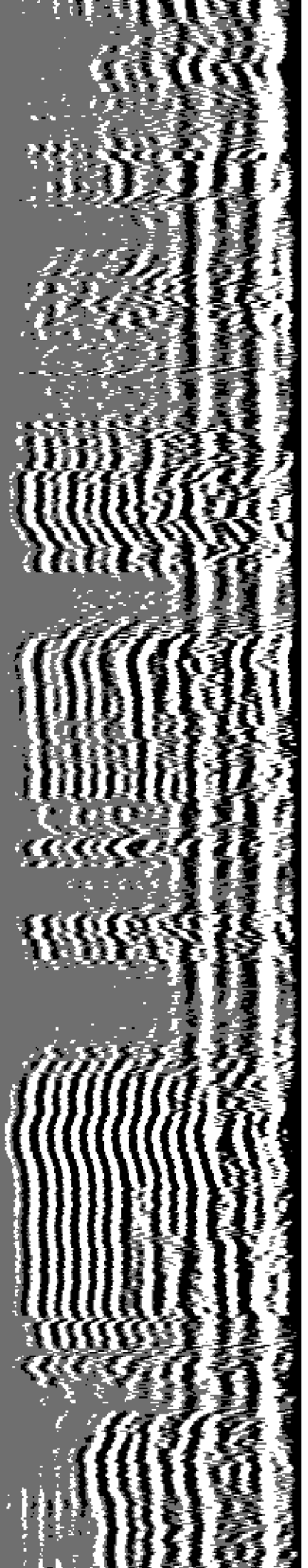
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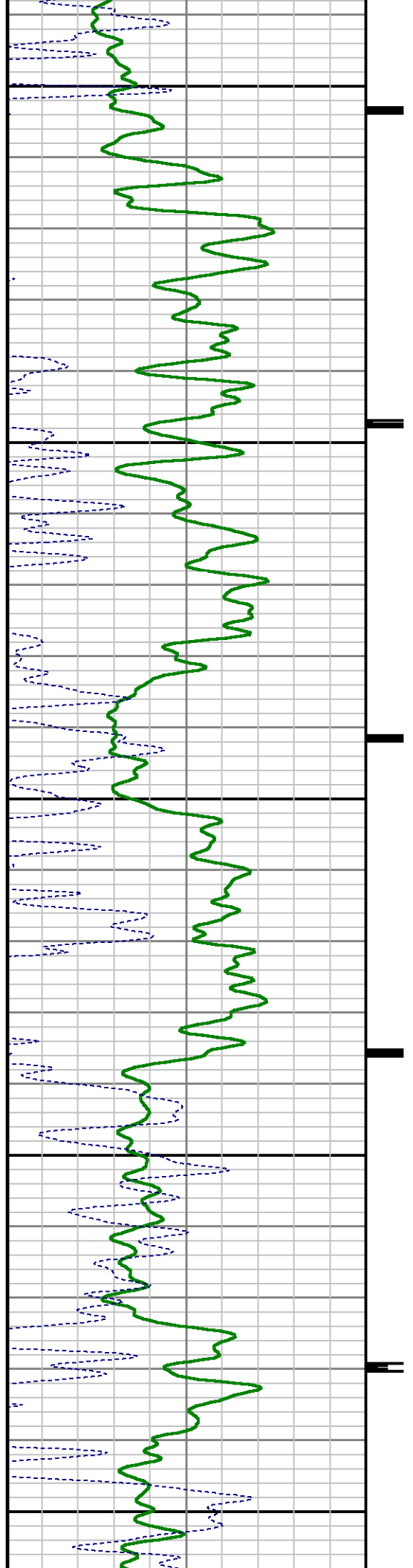


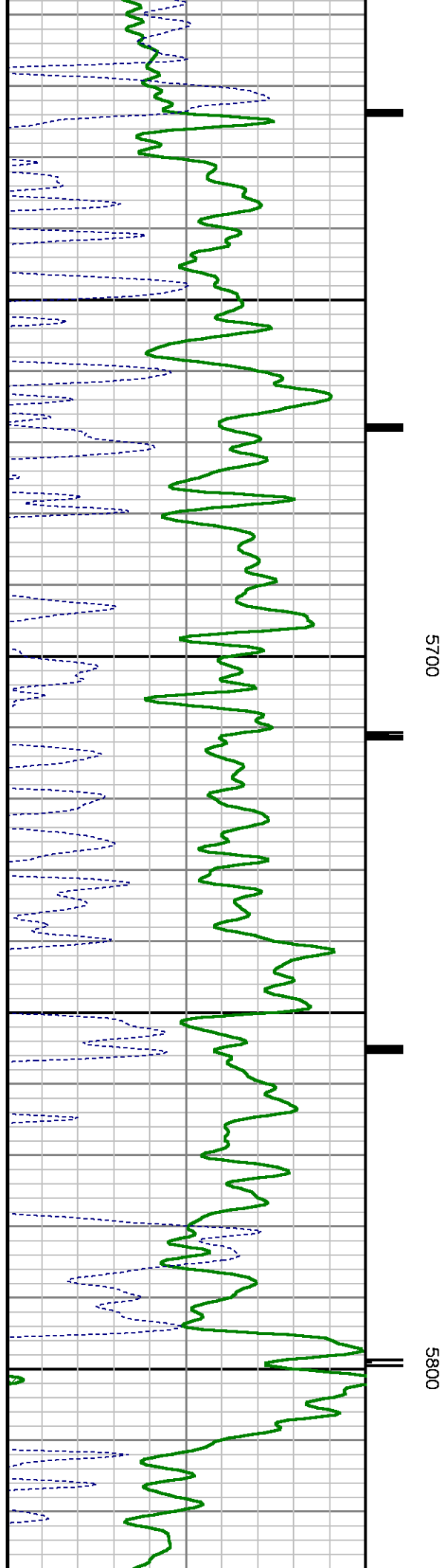
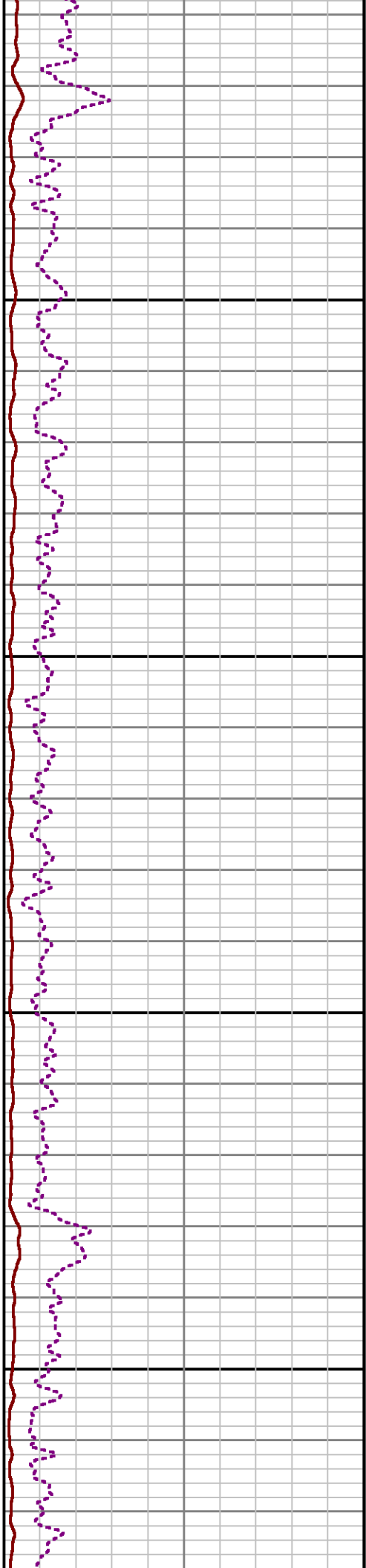
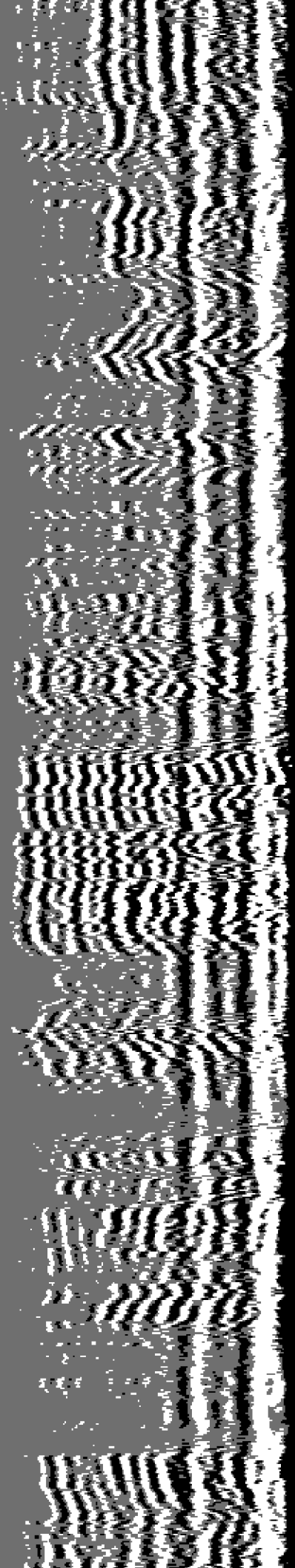


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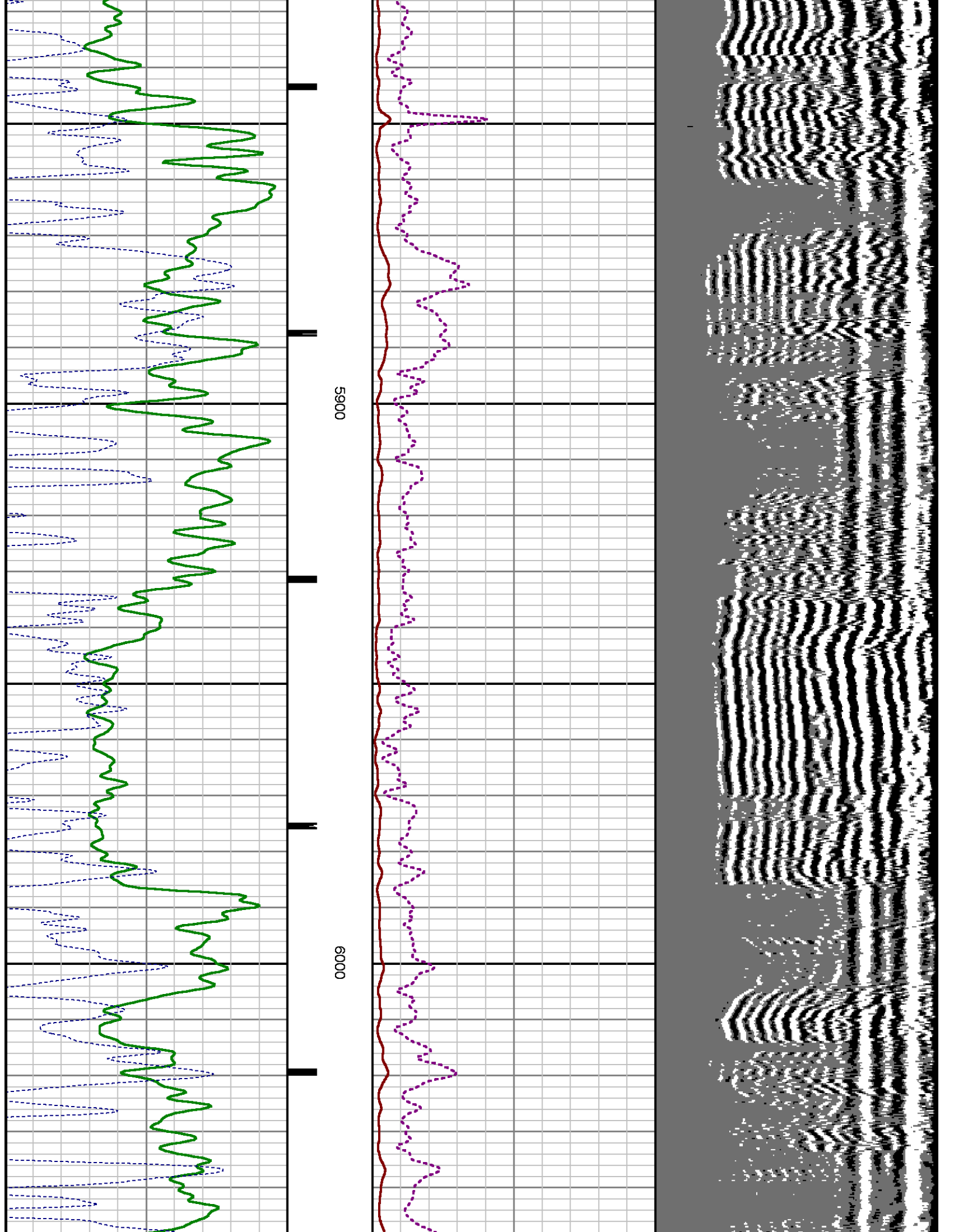
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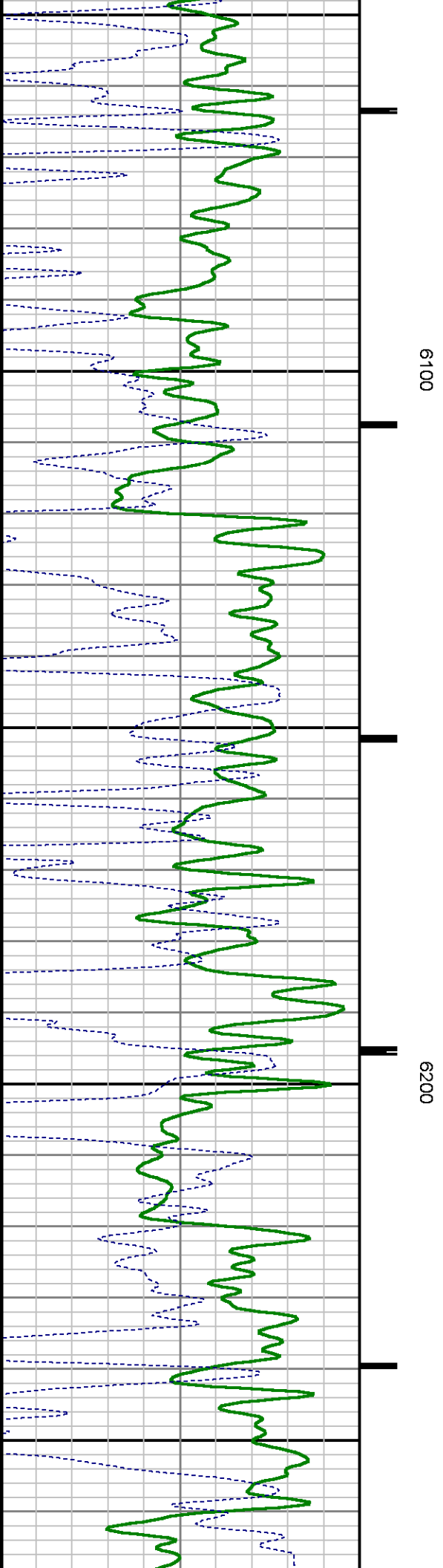
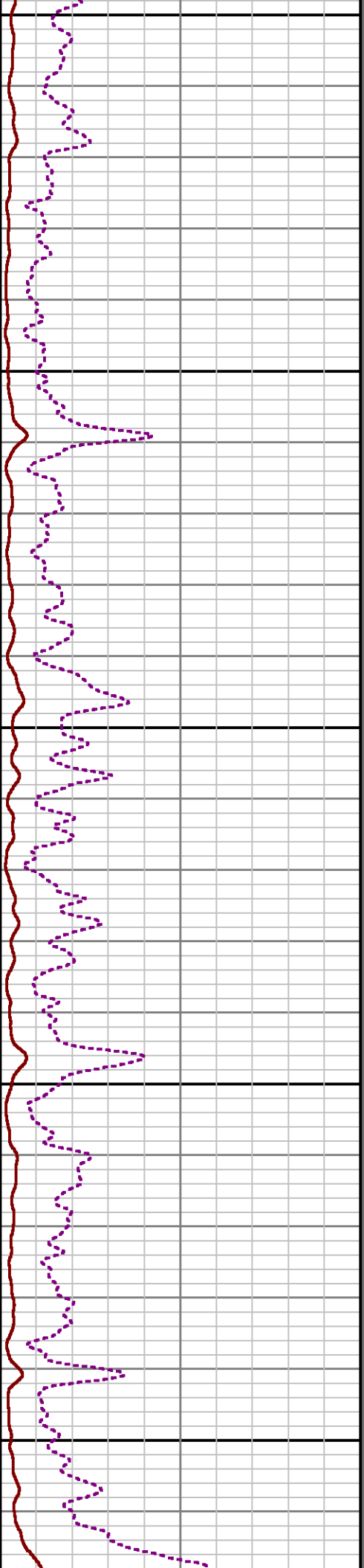
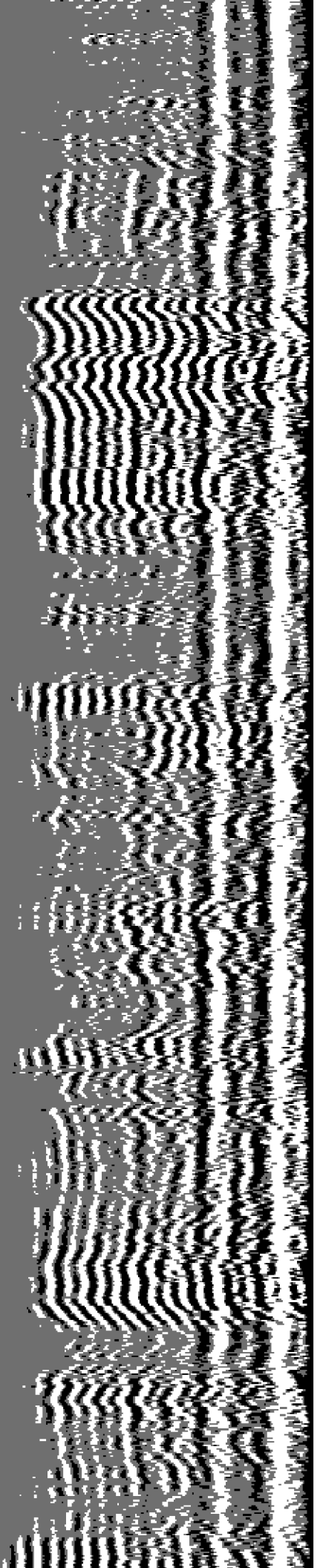
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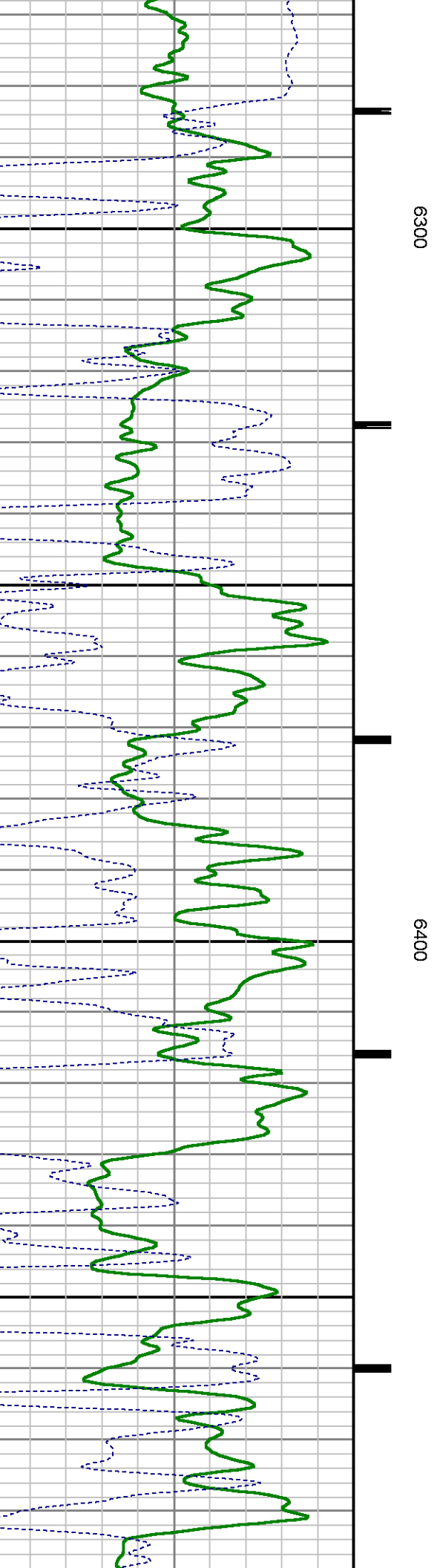
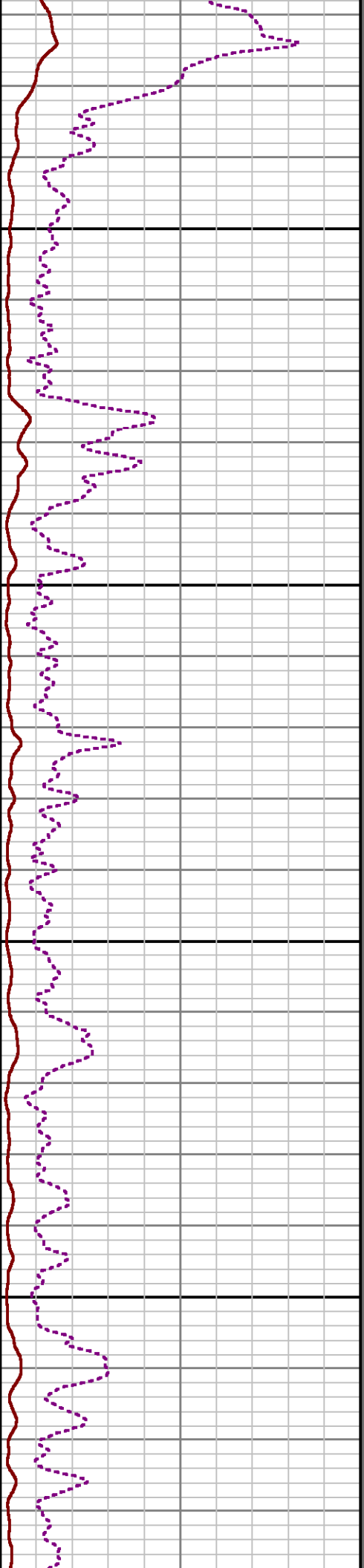
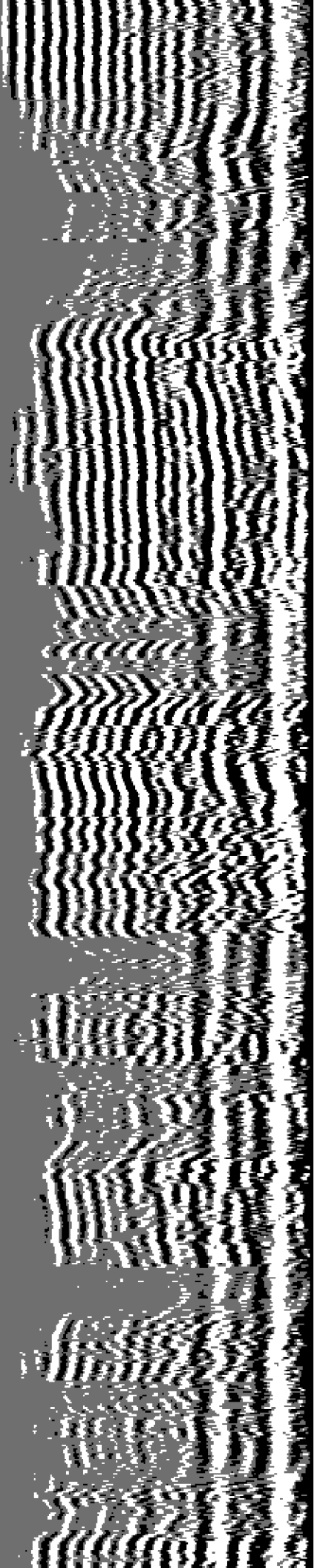


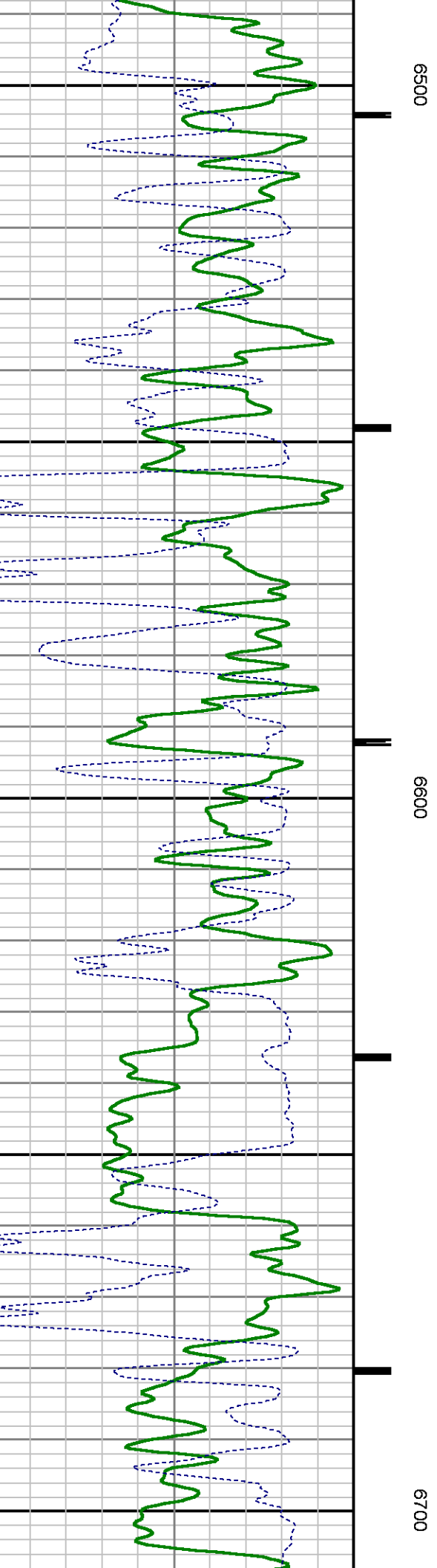
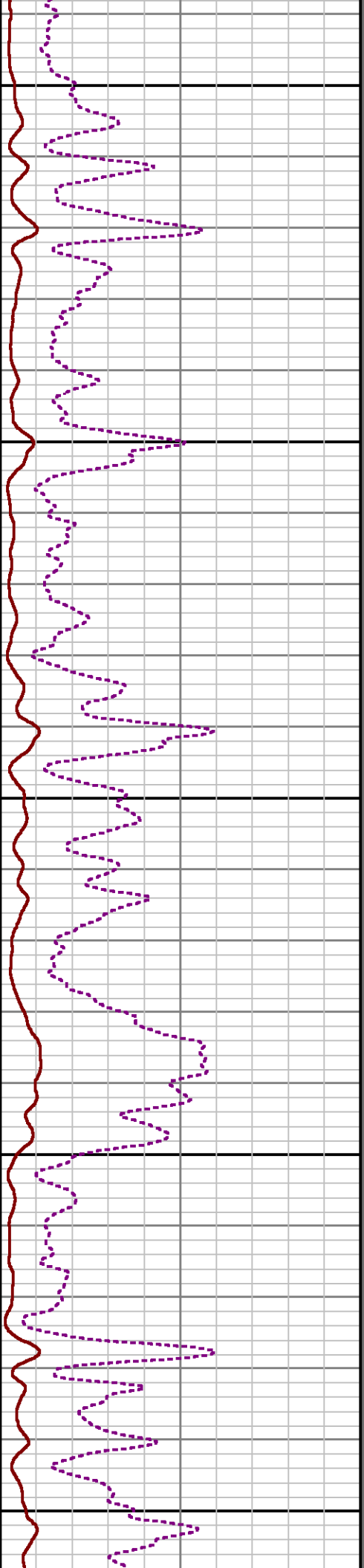
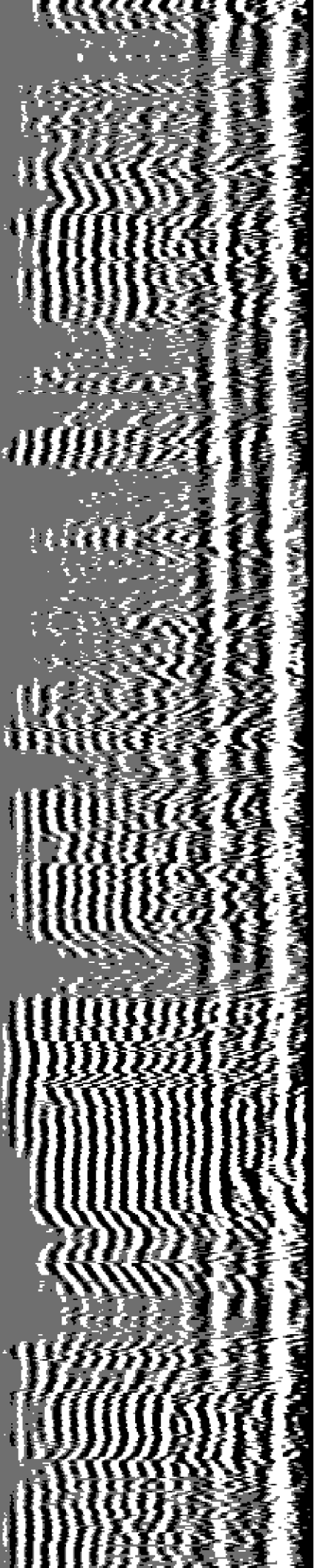


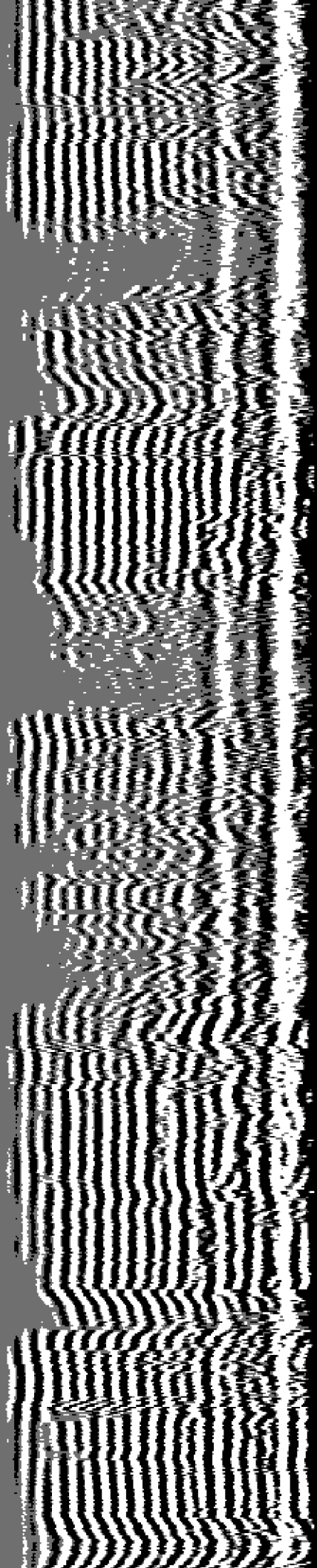
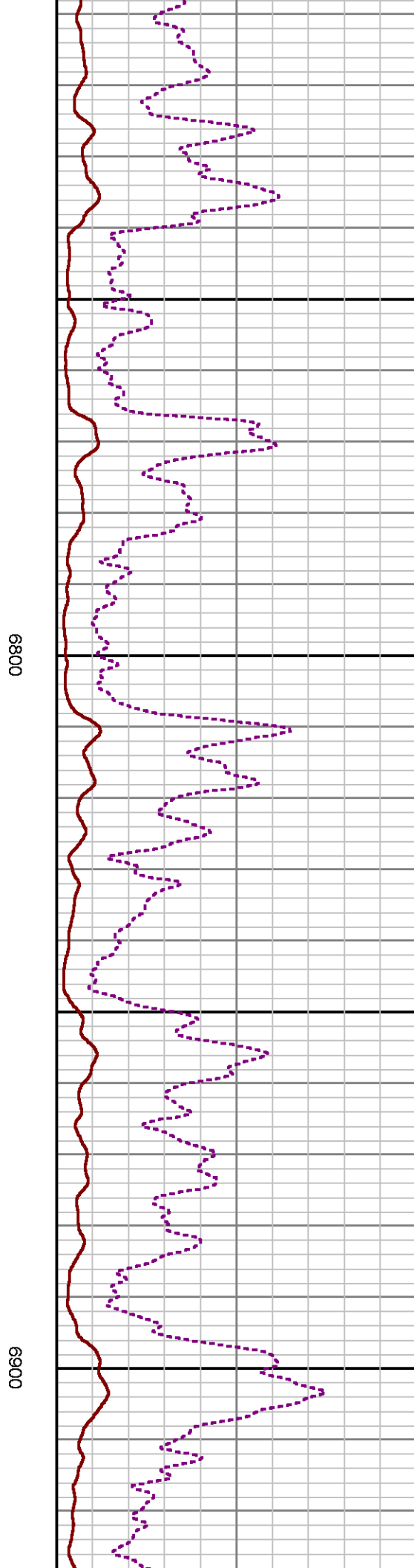
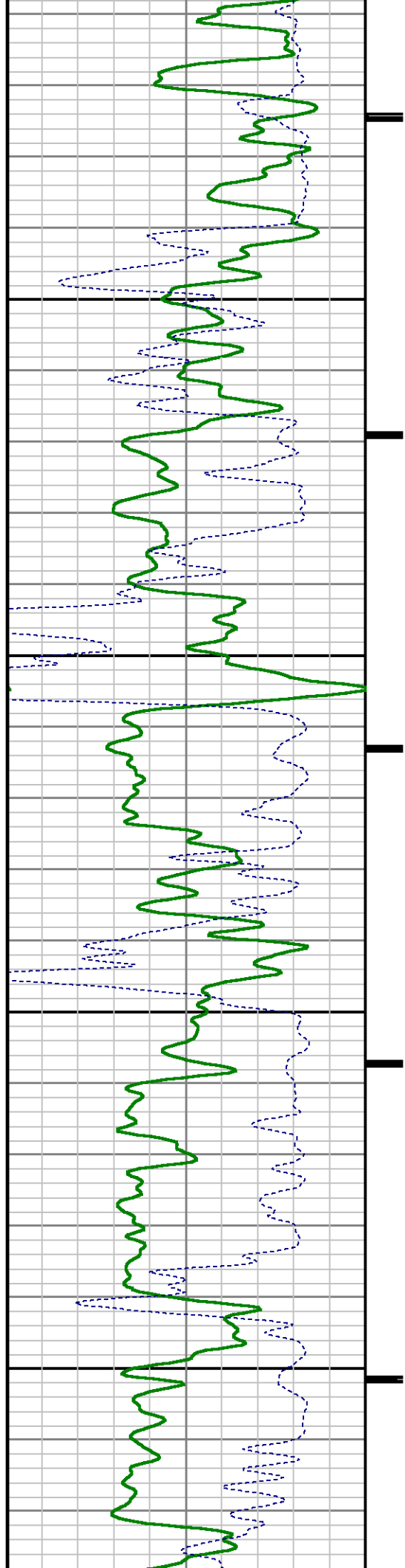




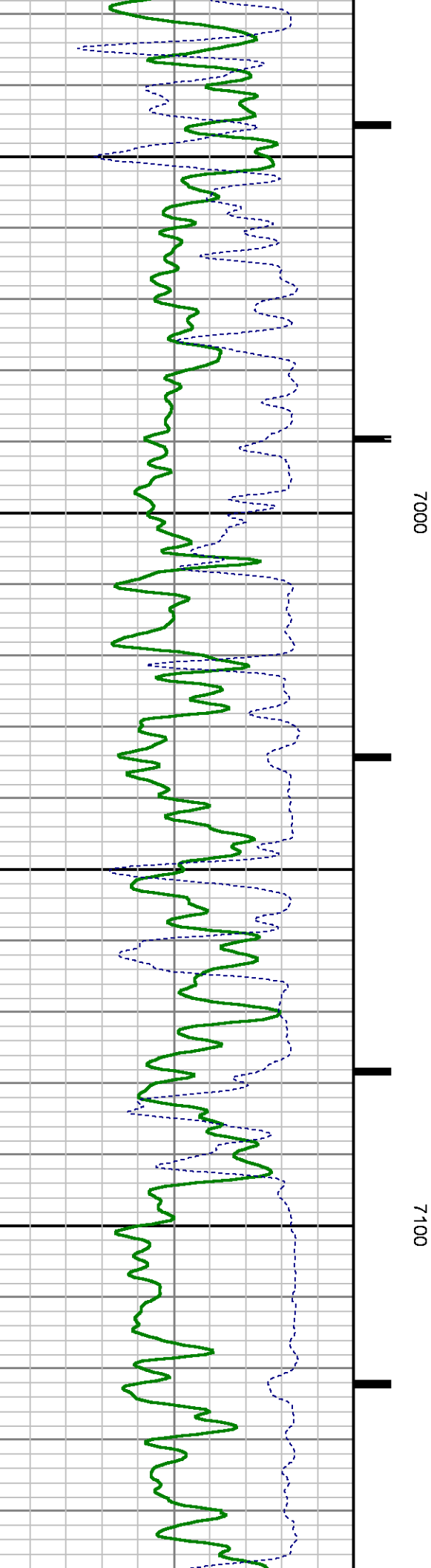
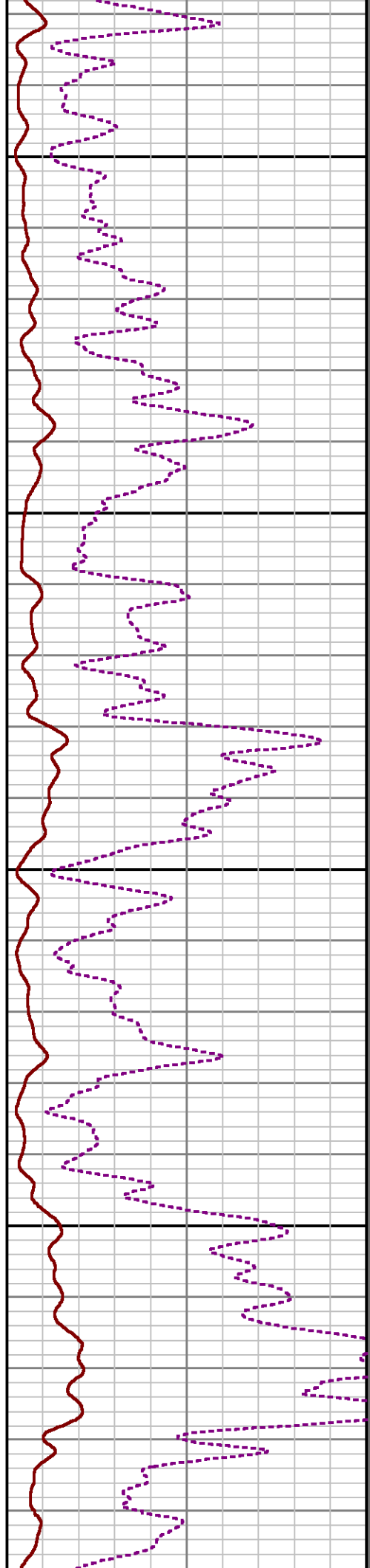
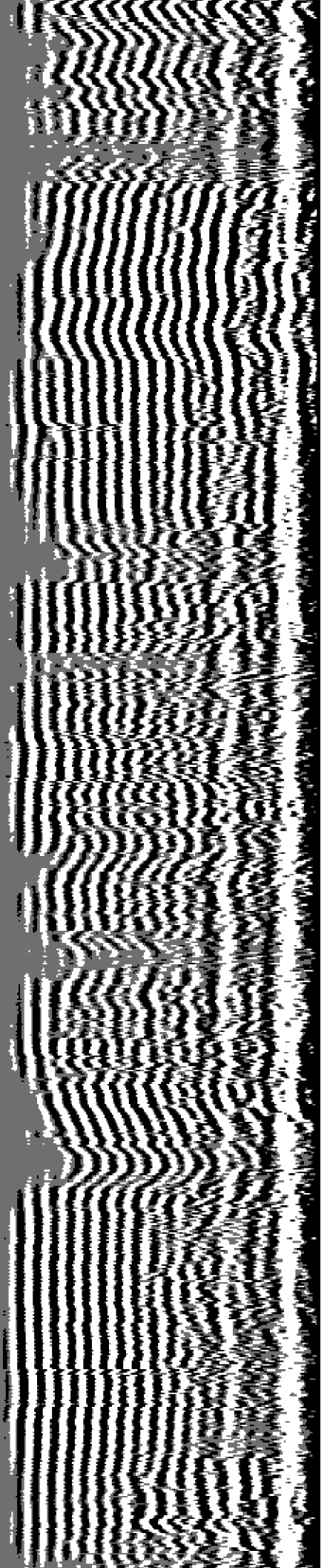


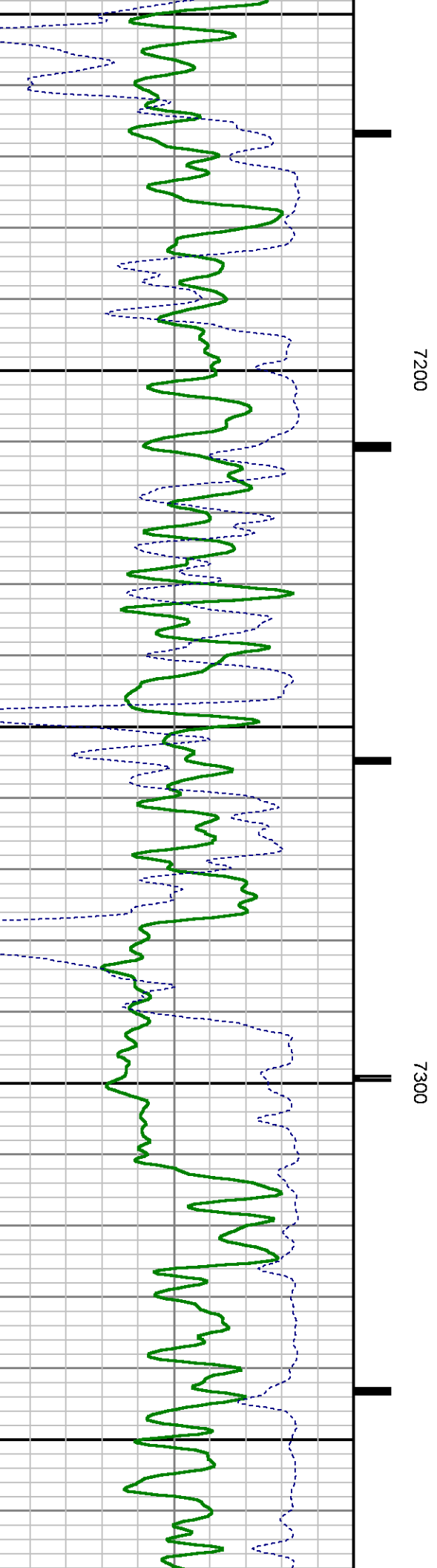
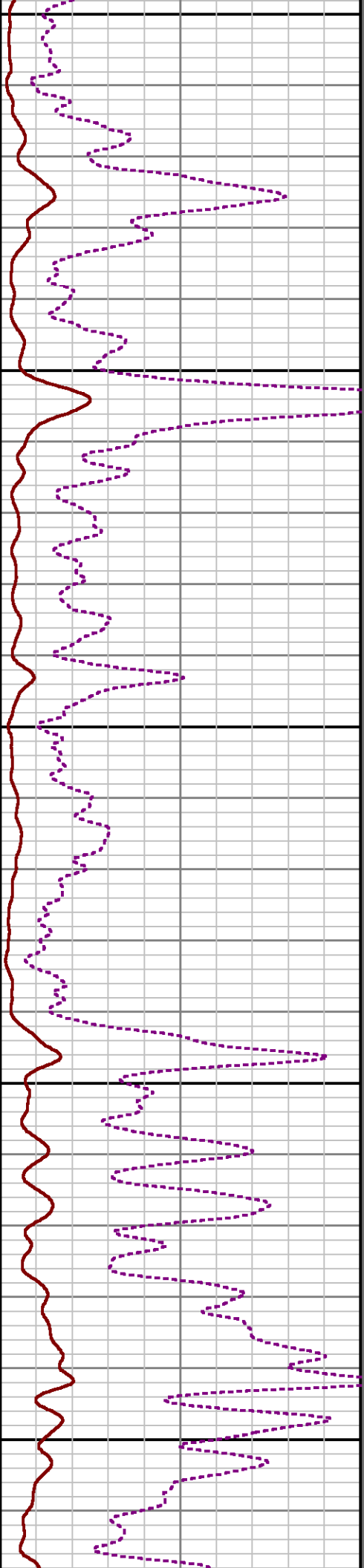
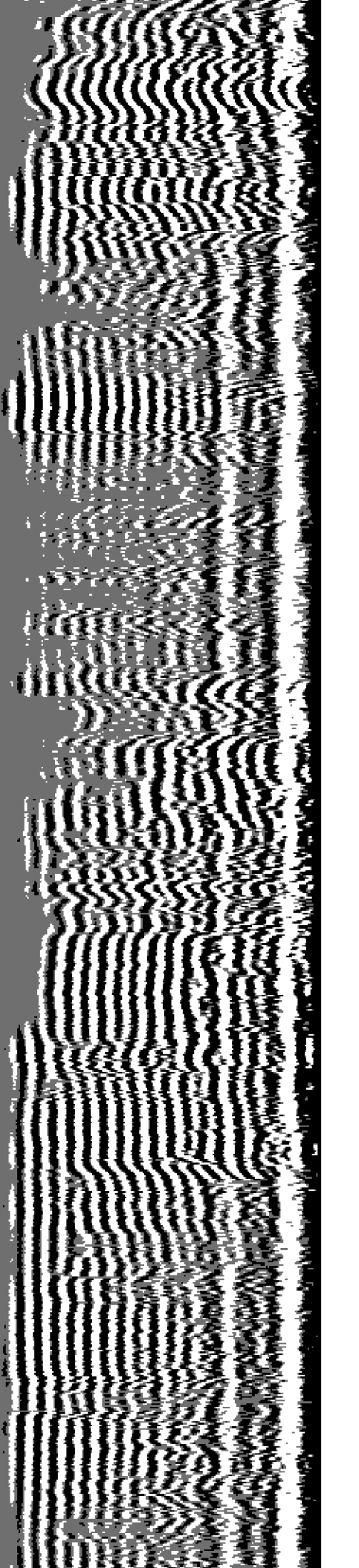




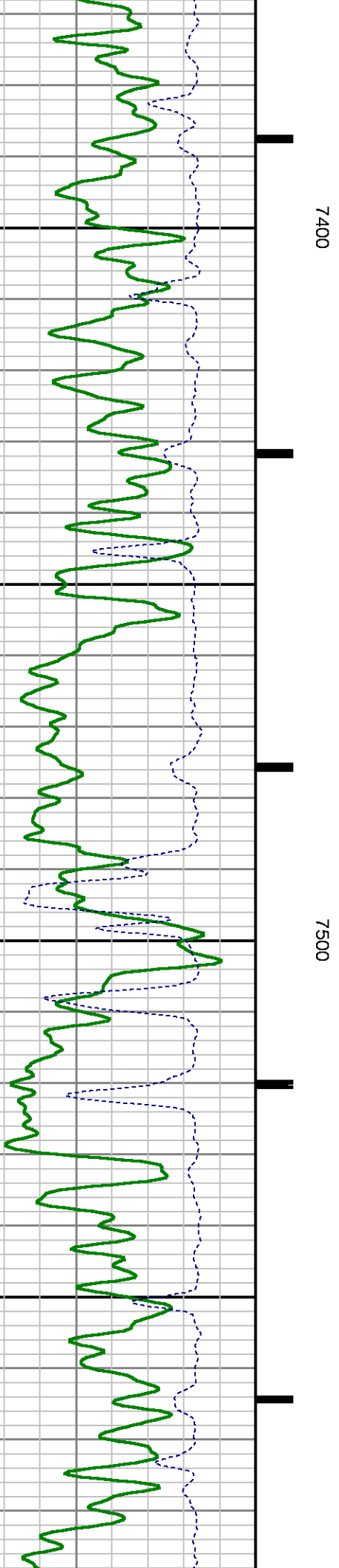
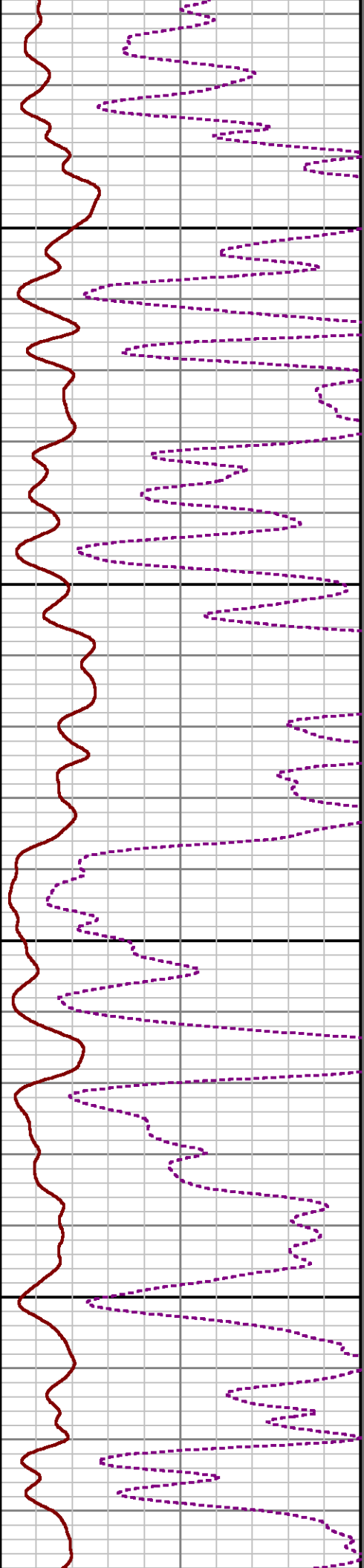
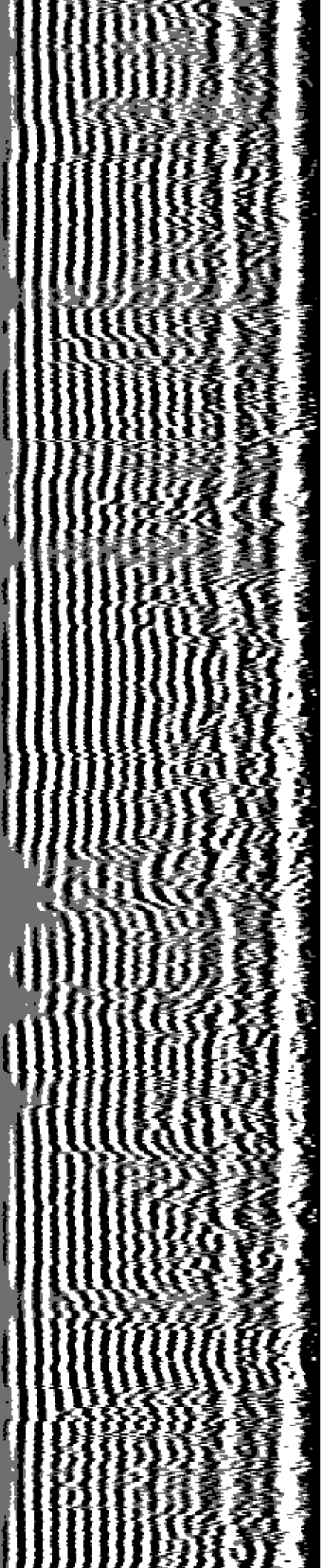


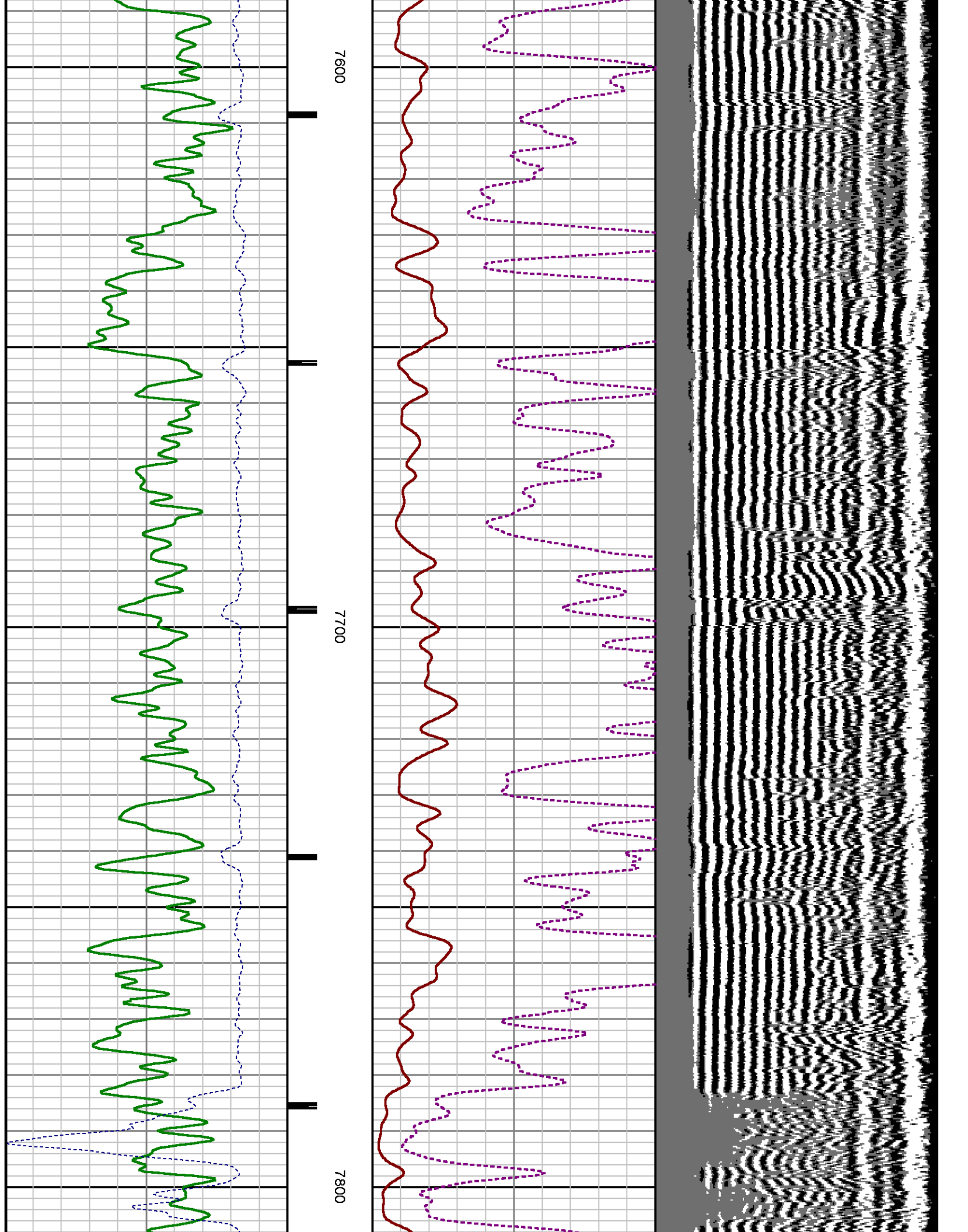


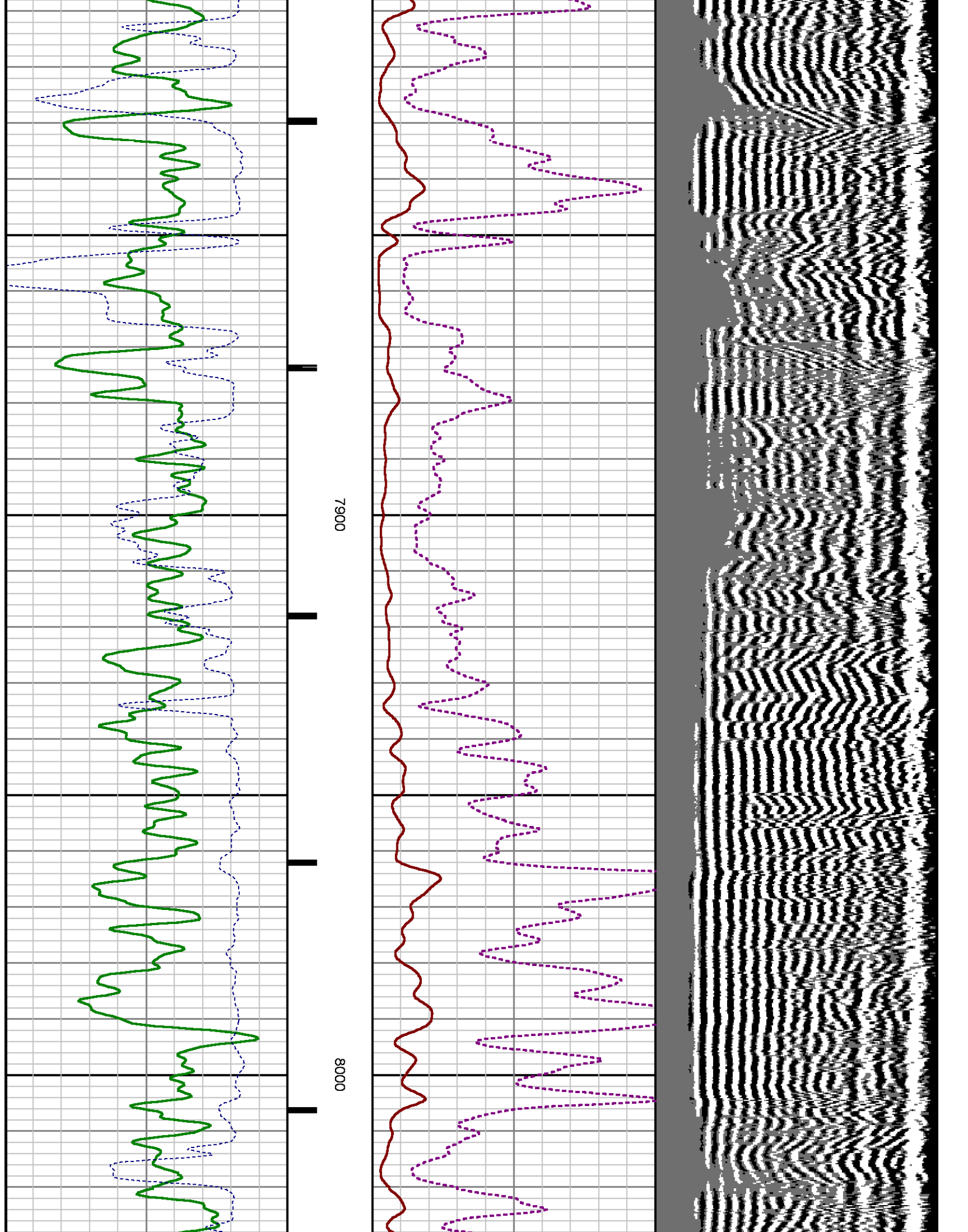


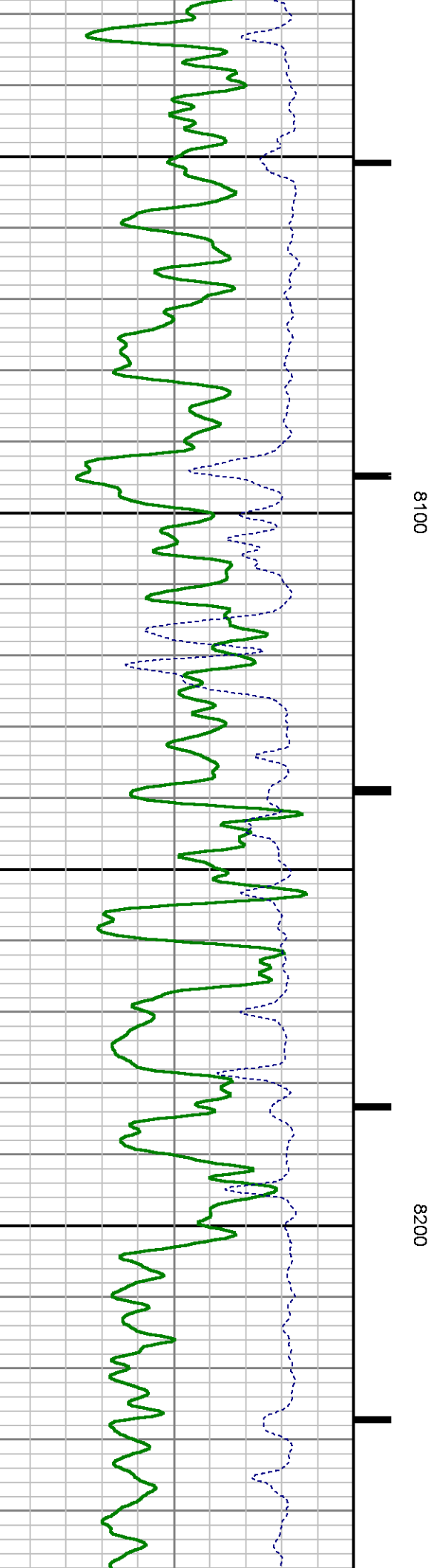
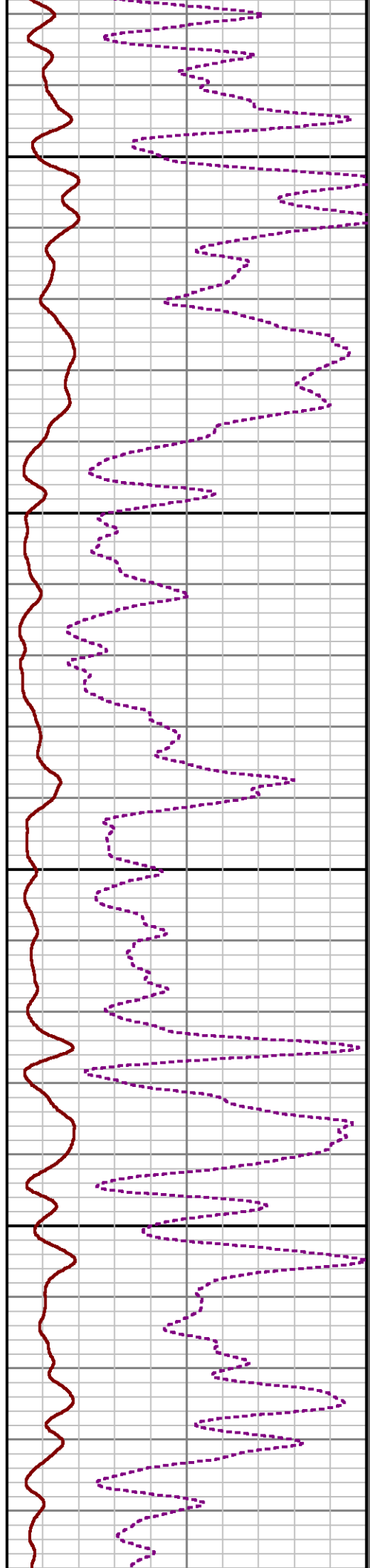
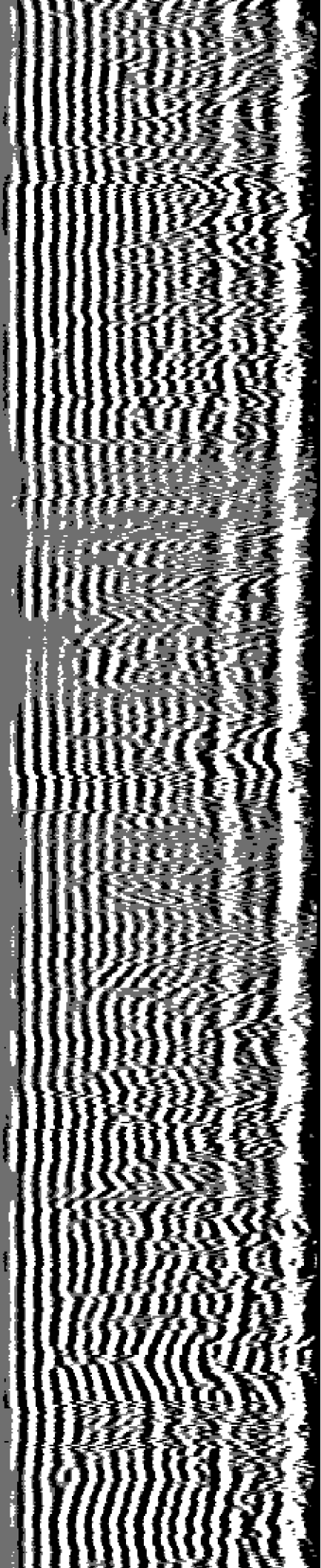




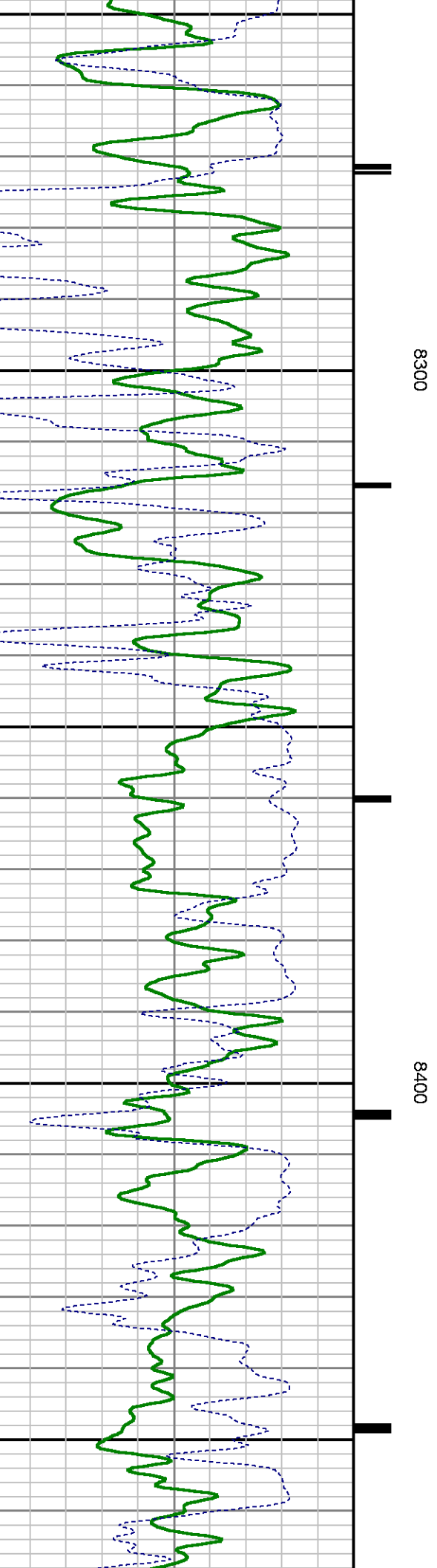
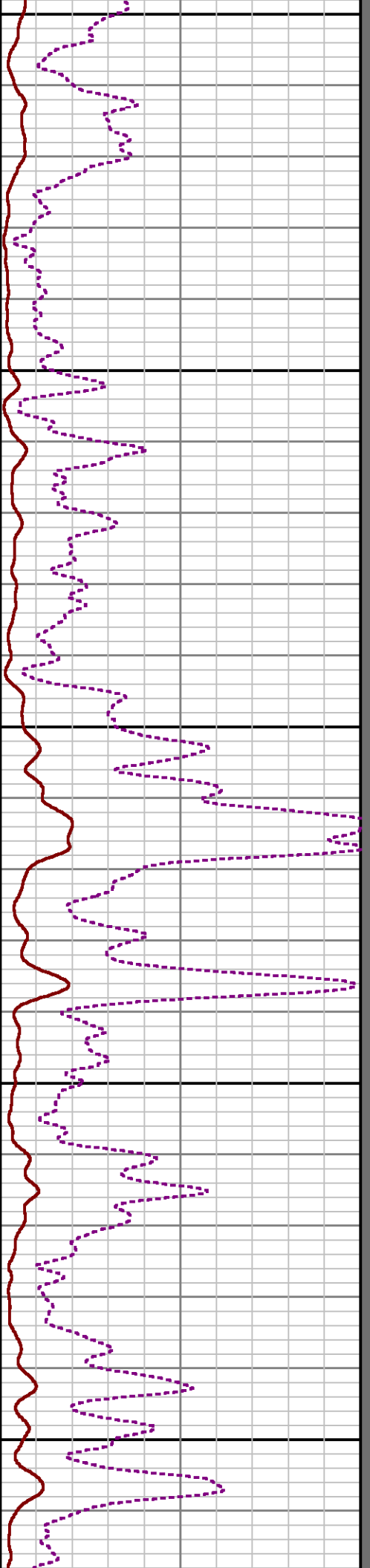
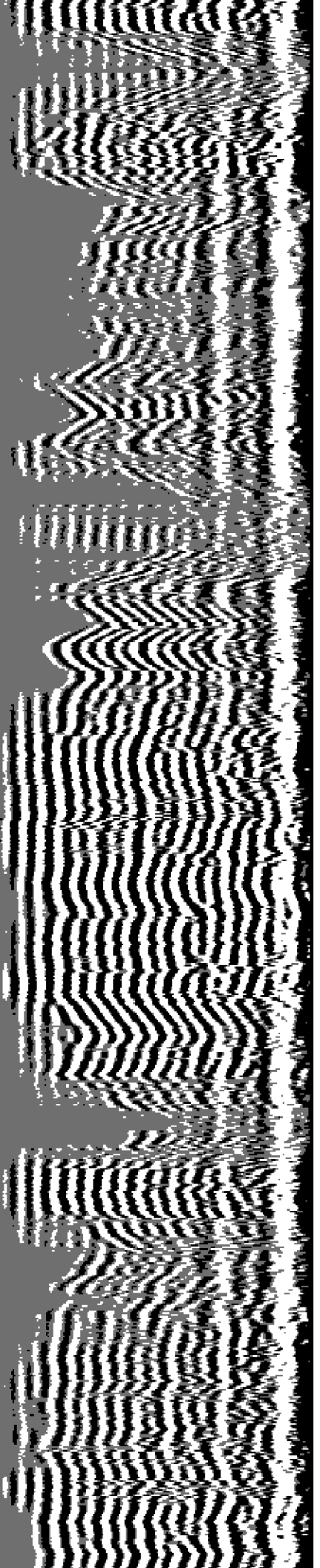




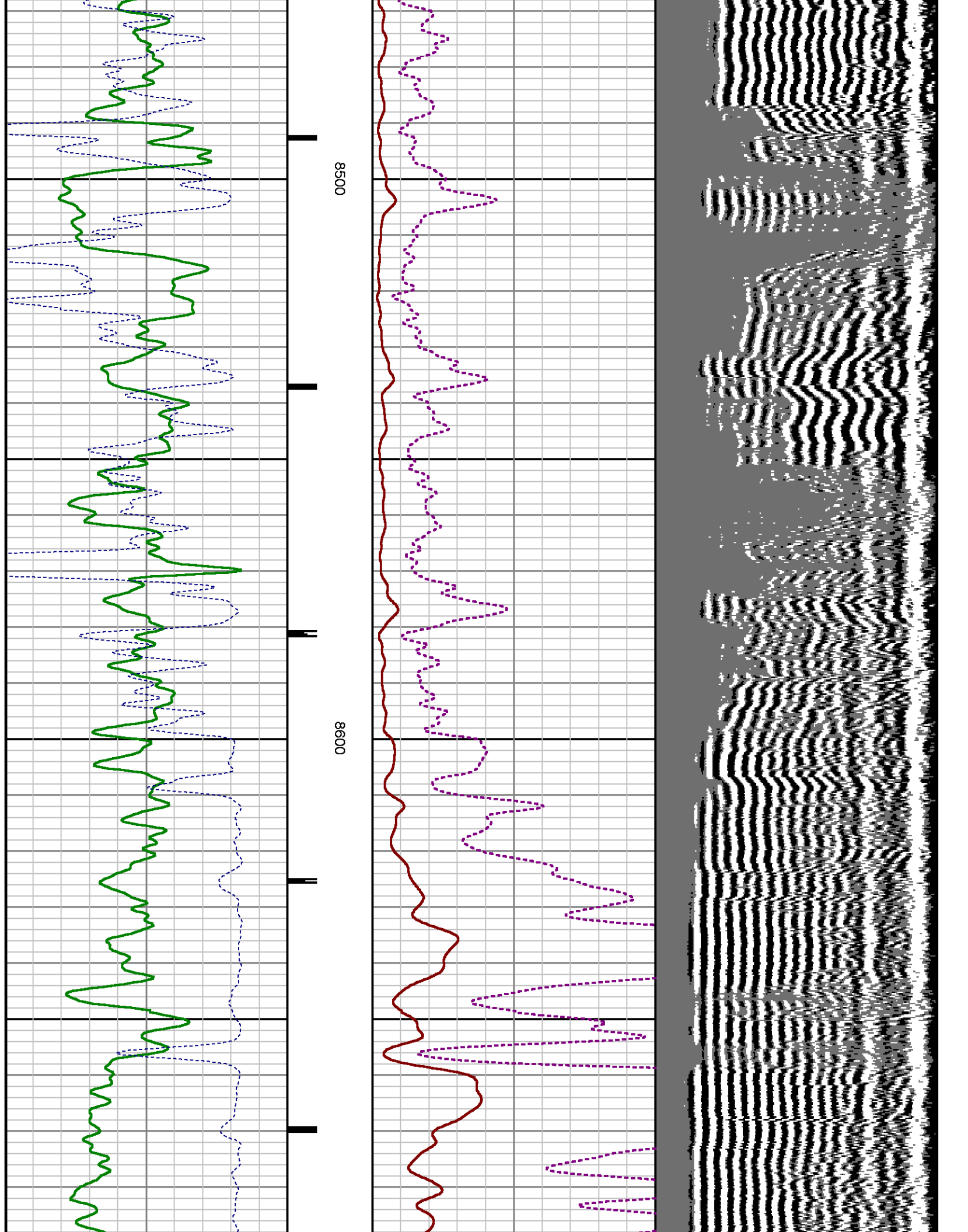


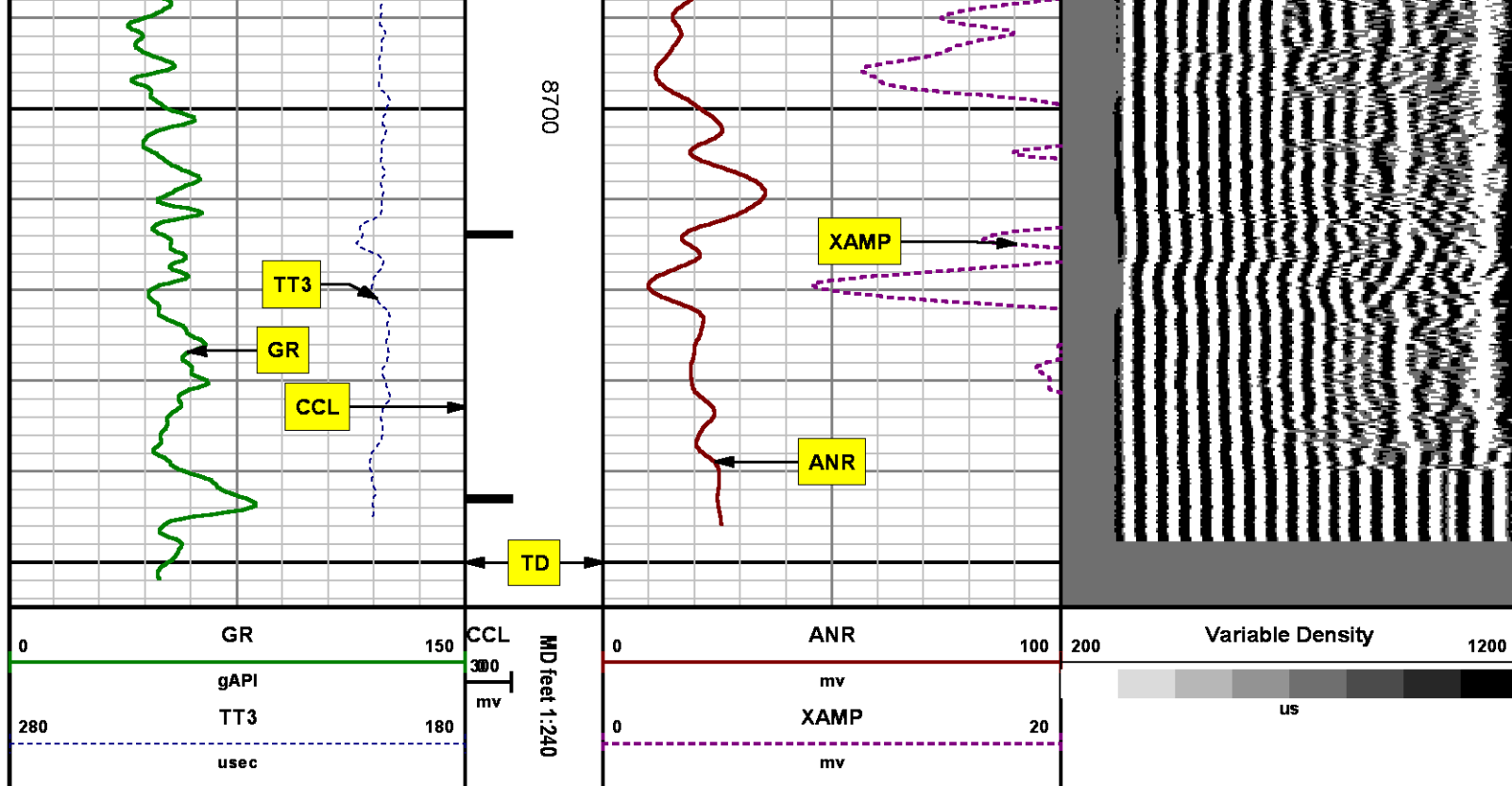












## SECONDARY PRESENTATION 0 PSI

| MEASUREMENT TYPE | PARAMETER             | VALUE   | UNITS  | TOP    | BOTTOM   |
|------------------|-----------------------|---------|--------|--------|----------|
| RAL              | Amp Gate Start Far    | 305.000 | u sec  | 32.037 | 8747.600 |
| RAL              | Amp Gate Start Near   | 195.000 | u sec  | 32.037 | 8747.600 |
| RAL              | Amp Gate Start Radial | 195.000 | u sec  | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Far    | 25.000  | u sec  | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Near   | 25.000  | u sec  | 32.037 | 8747.600 |
| RAL              | Amp Gate Width Radial | 25.000  | u sec  | 32.037 | 8747.600 |
| RAL              | casing od             | 4.500   | inches | 32.037 | 8747.600 |
| RAL              | casing wt             | 11.600  | lbm/ft | 32.037 | 8747.600 |
| RAL              | FB Start Far          | 291.900 | u sec  | 32.037 | 8747.600 |
| RAL              | FB Start Near         | 180.000 | u sec  | 32.037 | 8747.600 |
| RAL              | FB Start Radial       | 180.000 | u sec  | 32.037 | 8747.600 |
| RAL              | FB Thresh Far         | 15.000  | mv     | 32.037 | 8747.600 |
| RAL              | FB Thresh Near        | 4.000   | mv     | 32.037 | 8747.600 |
| RAL              | FB Thresh Radial      | 4.000   | mv     | 32.037 | 8747.600 |

## DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES |      |      |      |      |      |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -12.360      | ACAL            | ANR  | AR1  | AR2  | AR3  | AR4  |
|        |              | AR5             | AR6  | AR7  | AR8  | CHV  | FPR2 |
|        |              | FPR3            | FPR5 | TT3  | TTR1 | TTR2 | TTR3 |
|        |              | TTR4            | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -11.360      | AFAR            | SIG  | TT5  |      |      |      |
| 2459XA | -7.250       | CCL             |      |      |      |      |      |
| 2459XA | -5.390       | GR              |      |      |      |      |      |
| 2459XA | 0.000        | NEU             |      |      |      |      |      |

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : WPX ENERGY

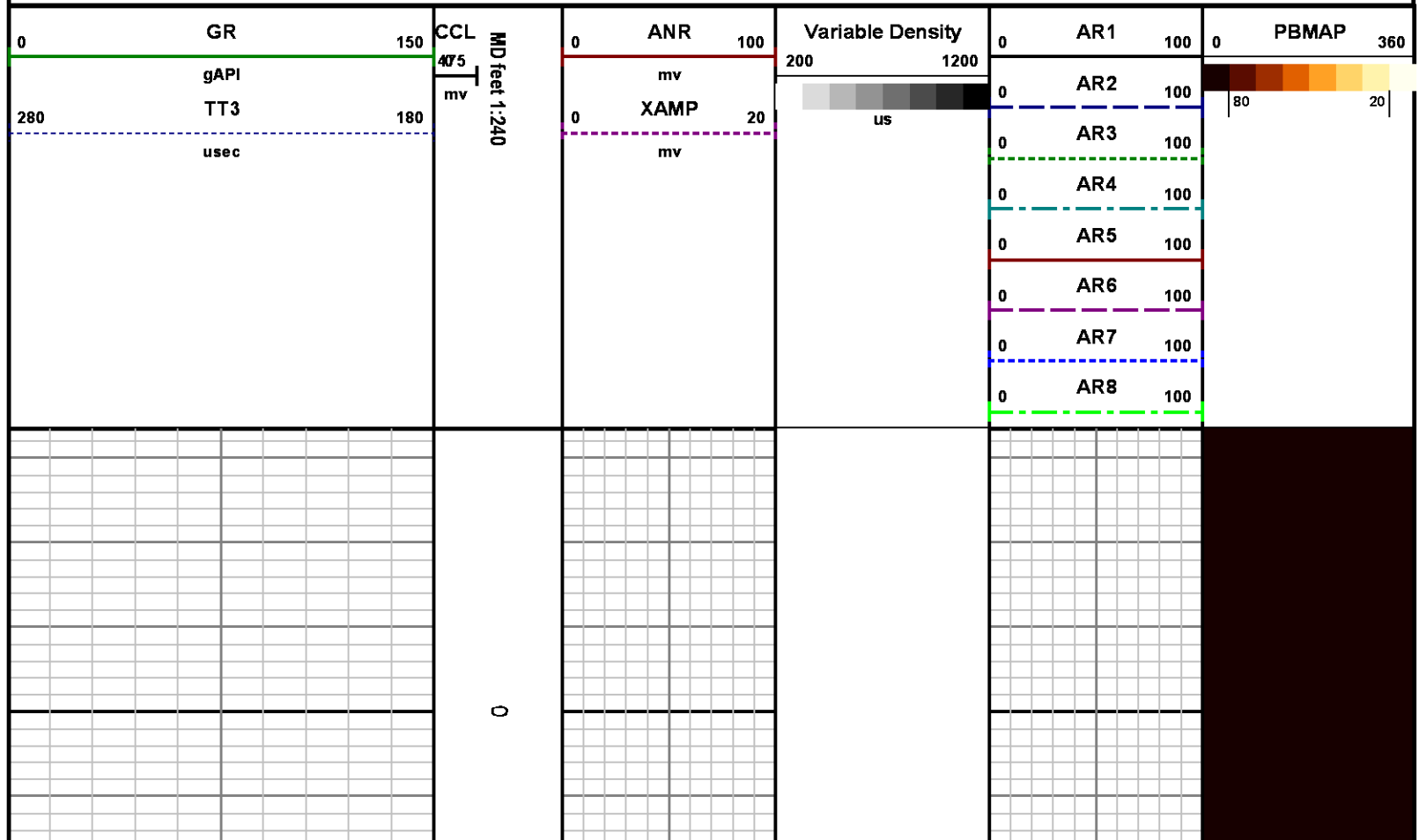
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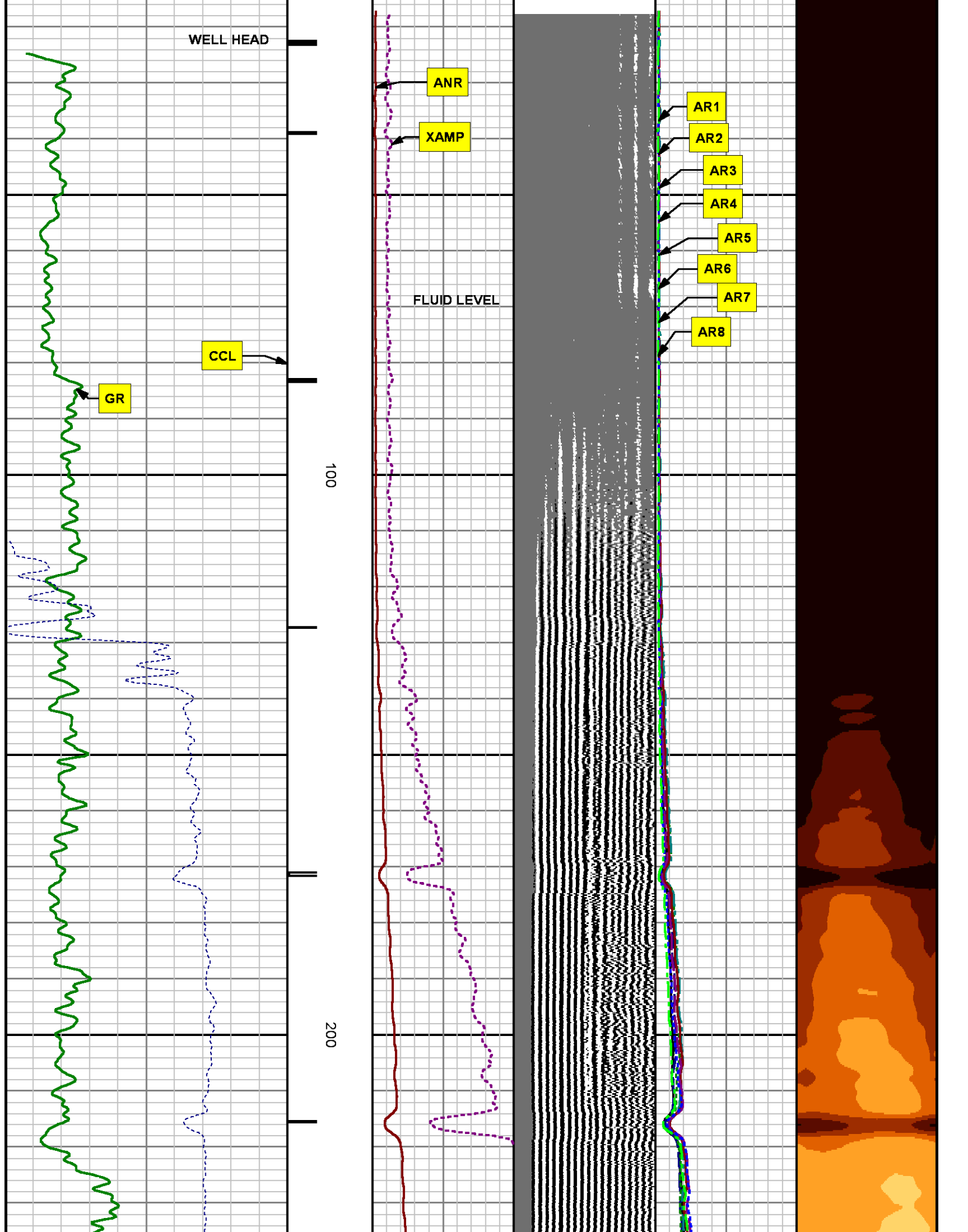
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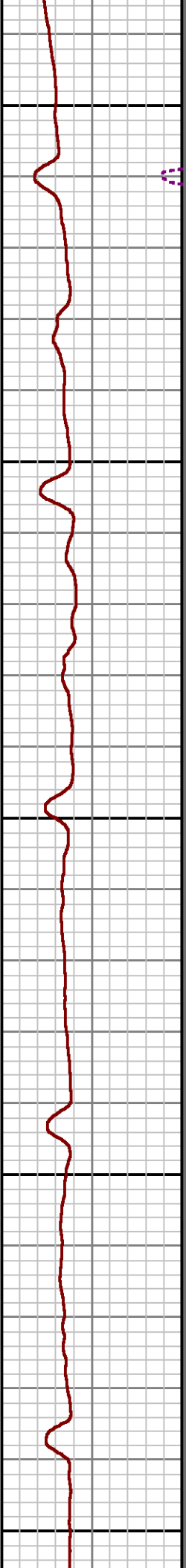
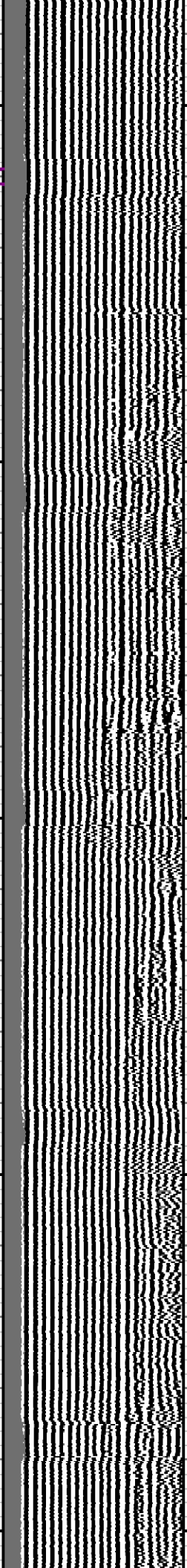
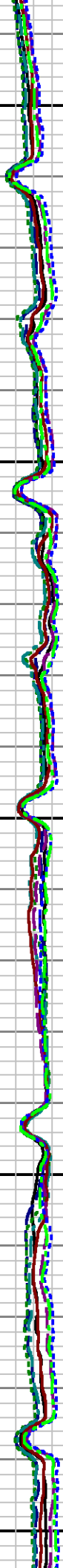
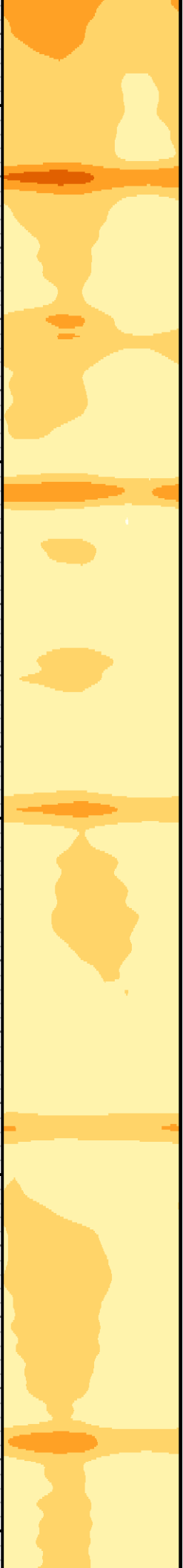
Mode : PlotMgr 5.4.504

Interval : -33.50 - 8758.50 feet UP

Created : 10/13/2014 12:10:28 PM

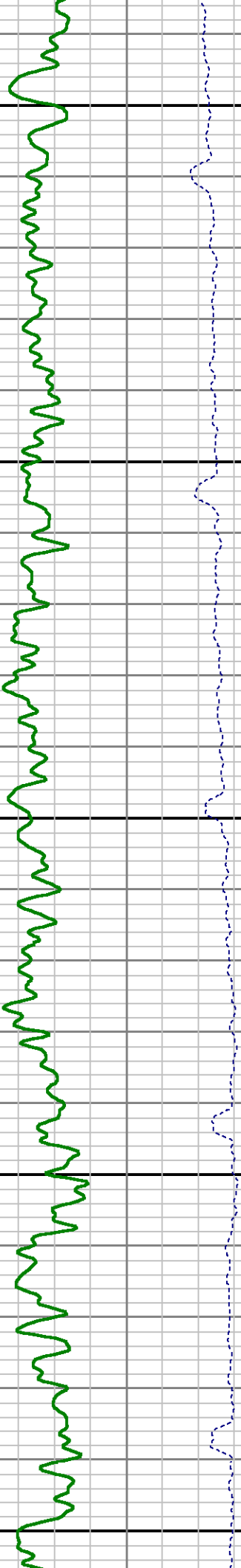




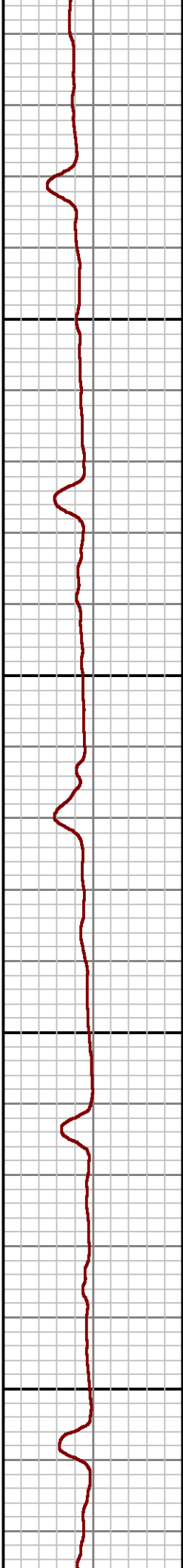
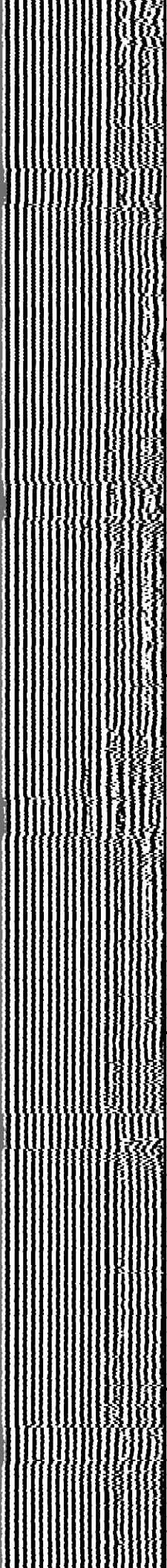
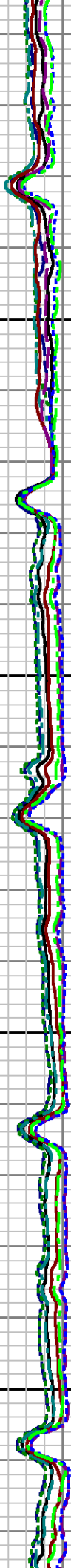
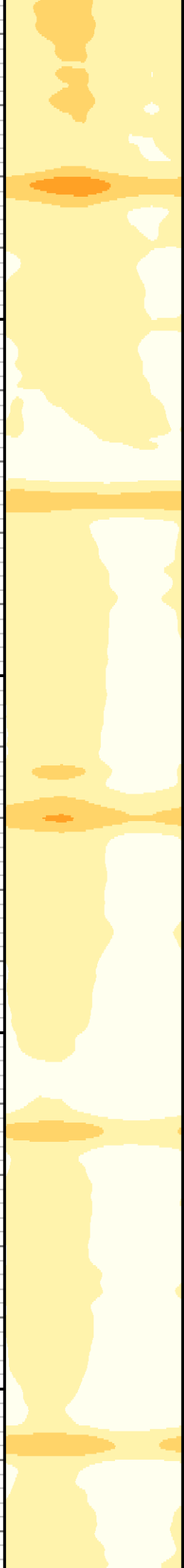


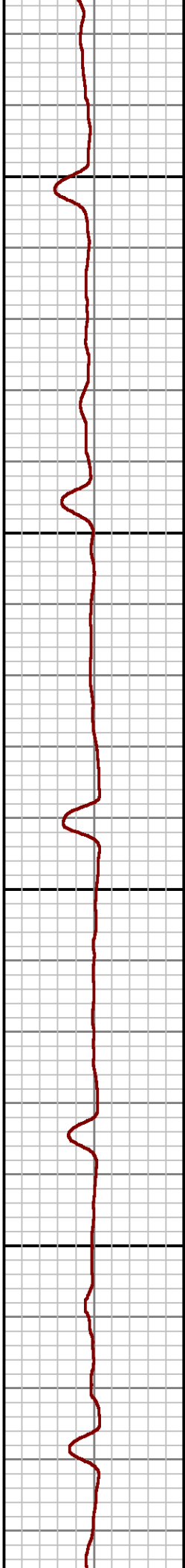
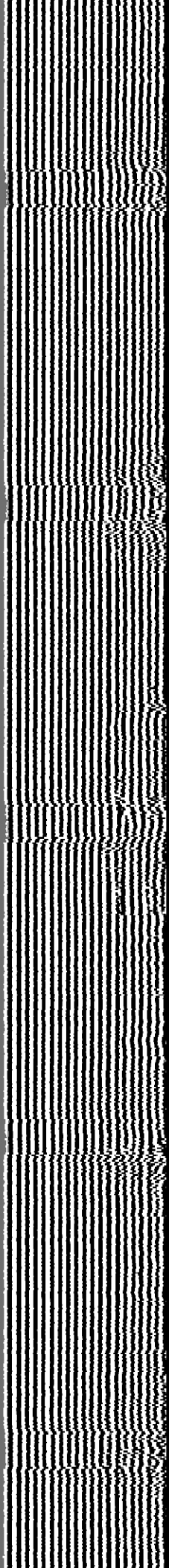
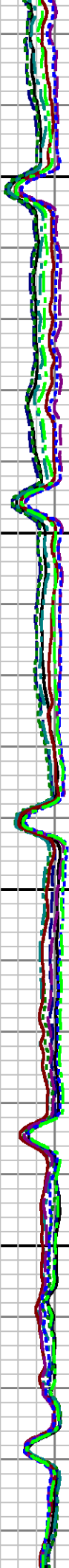
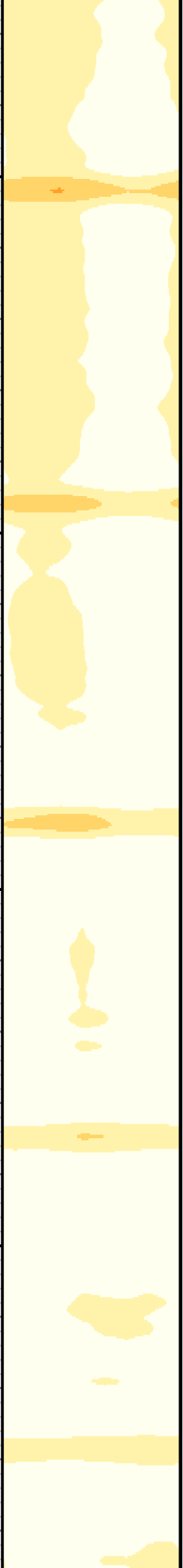
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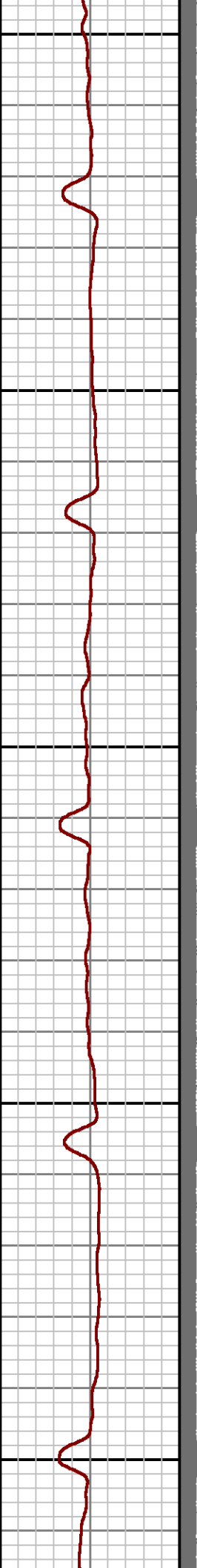
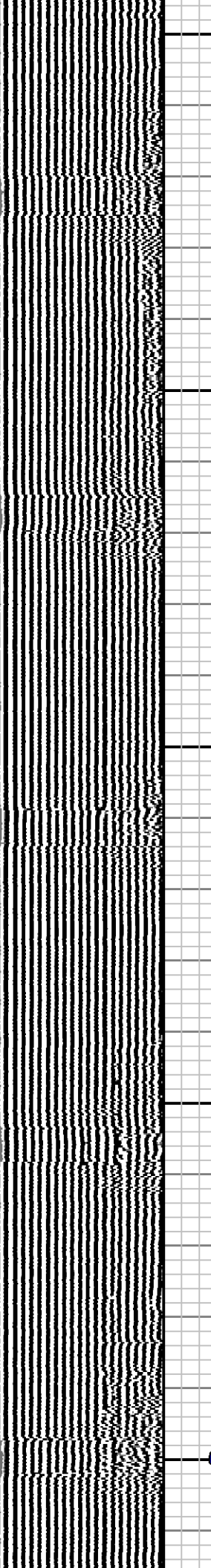
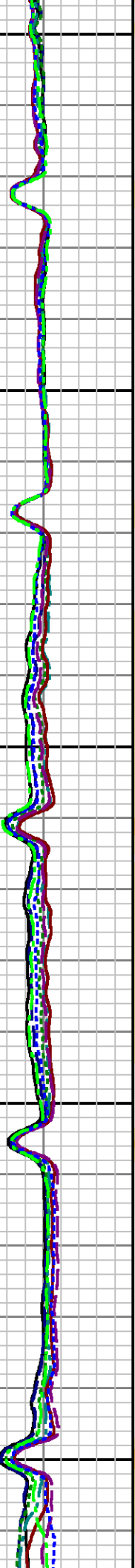
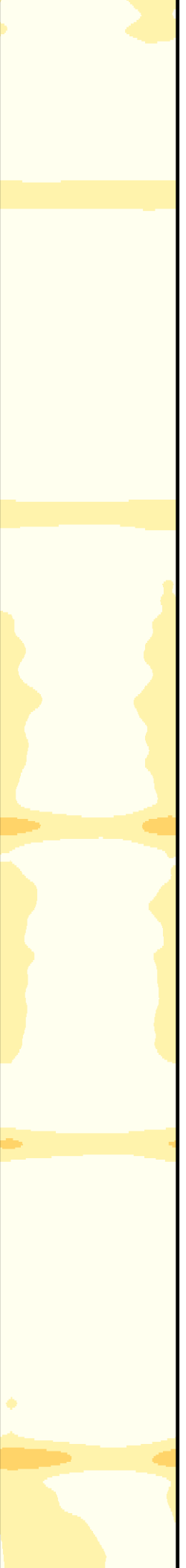
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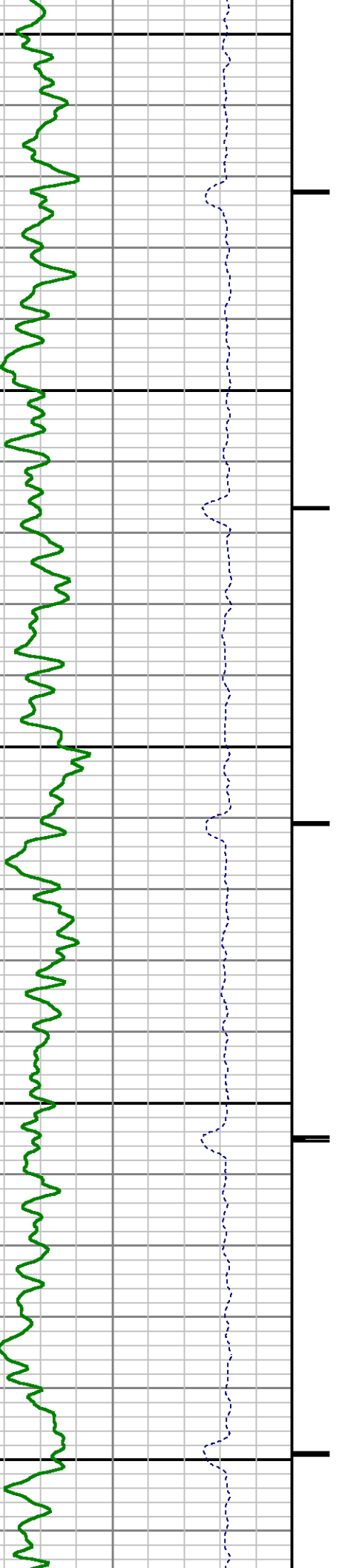


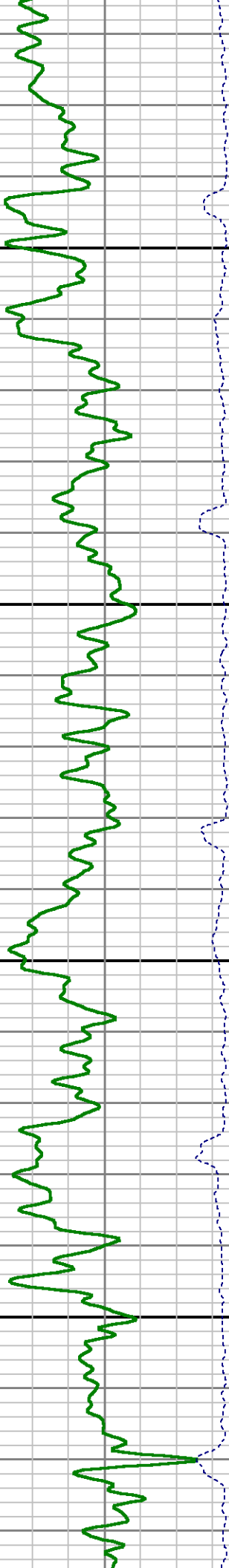
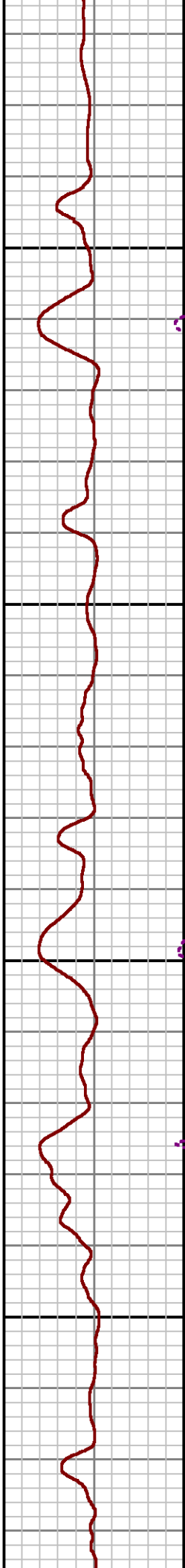
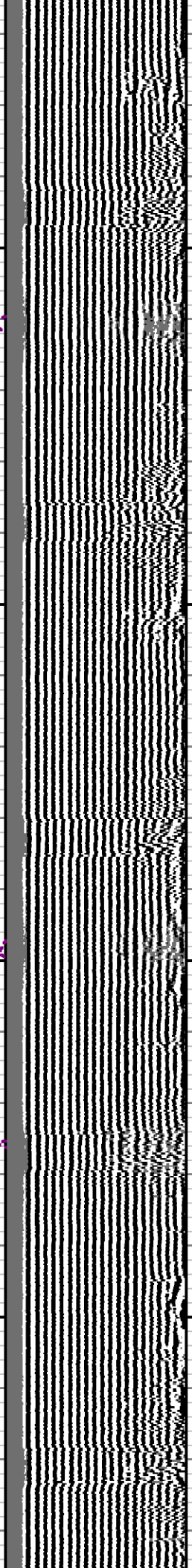
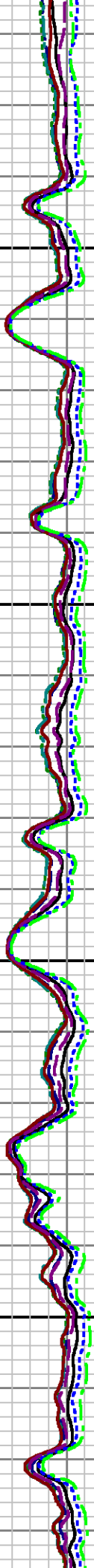
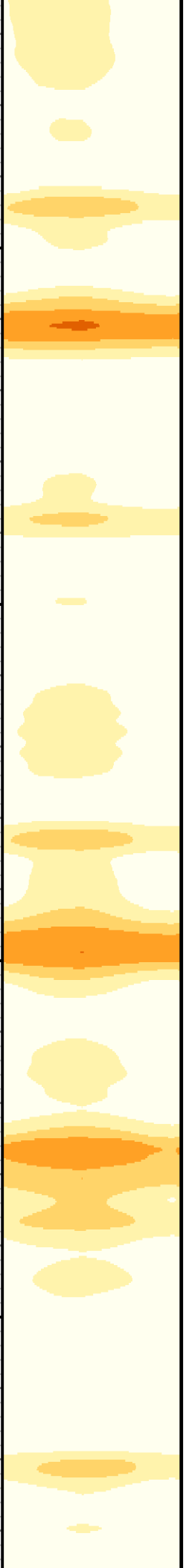


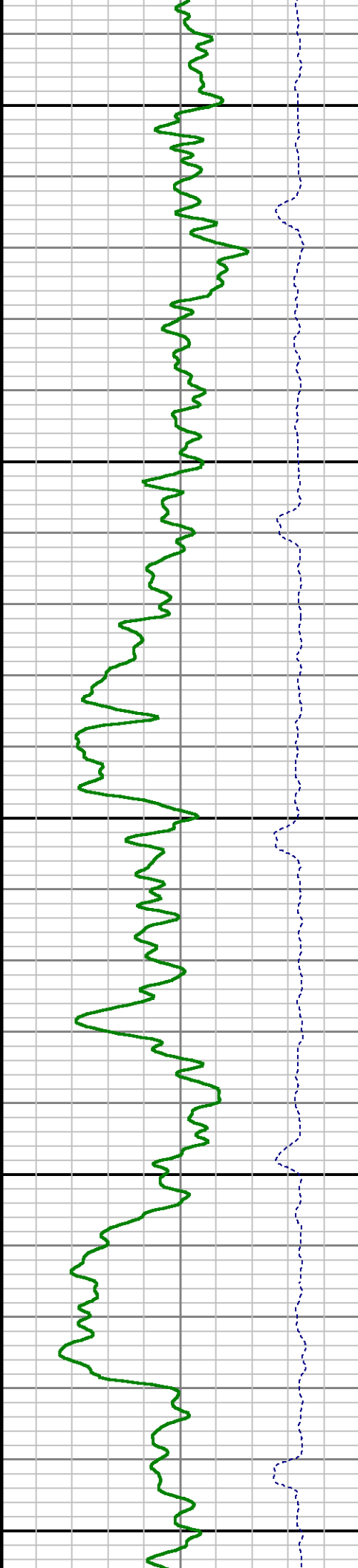
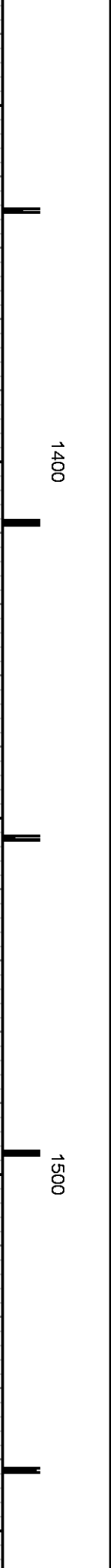
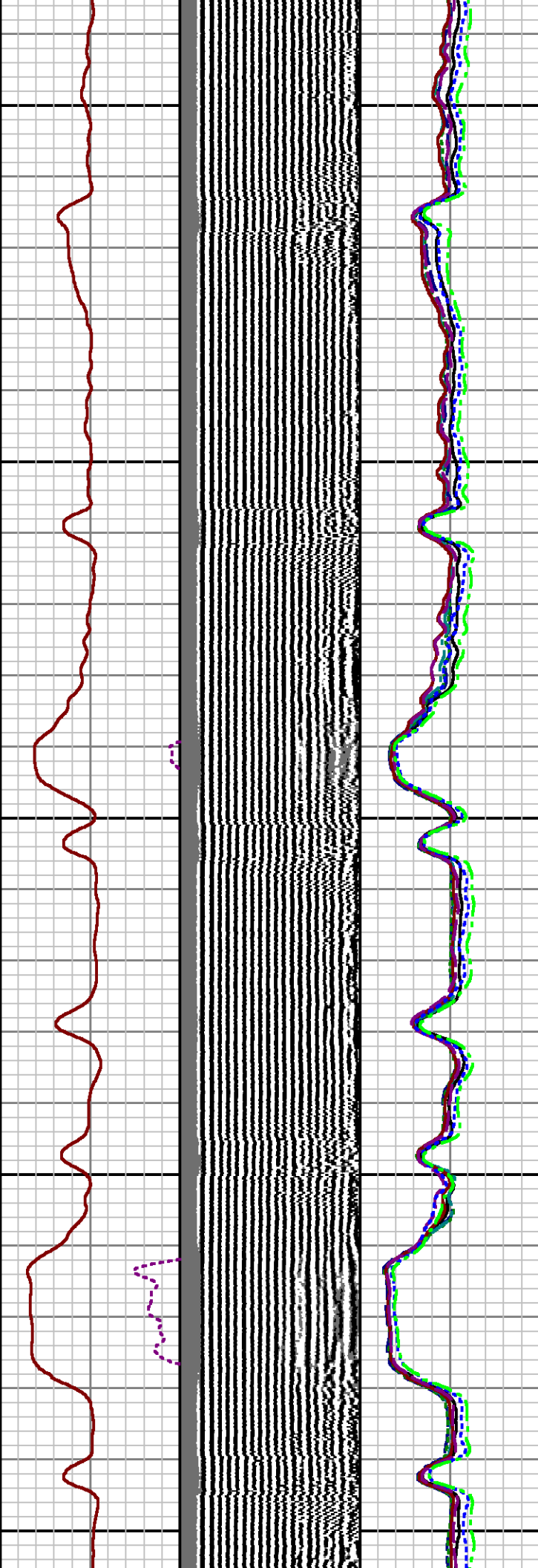
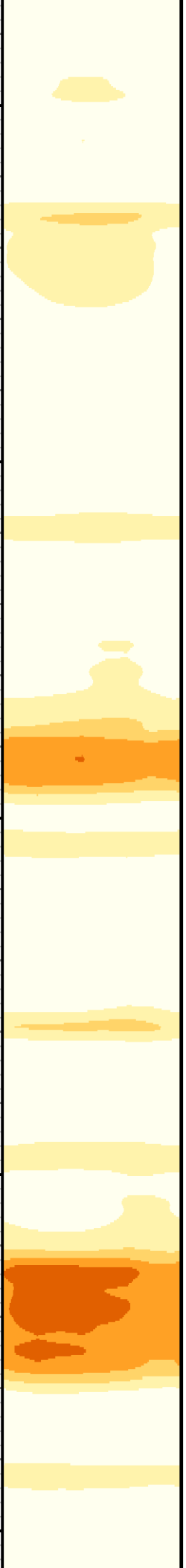
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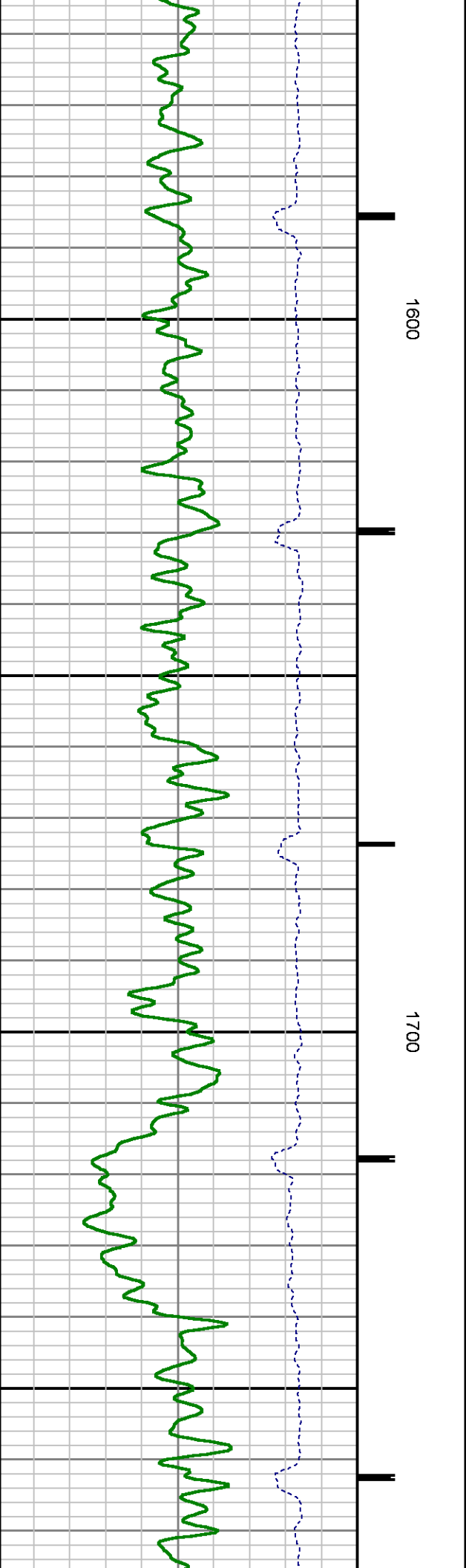
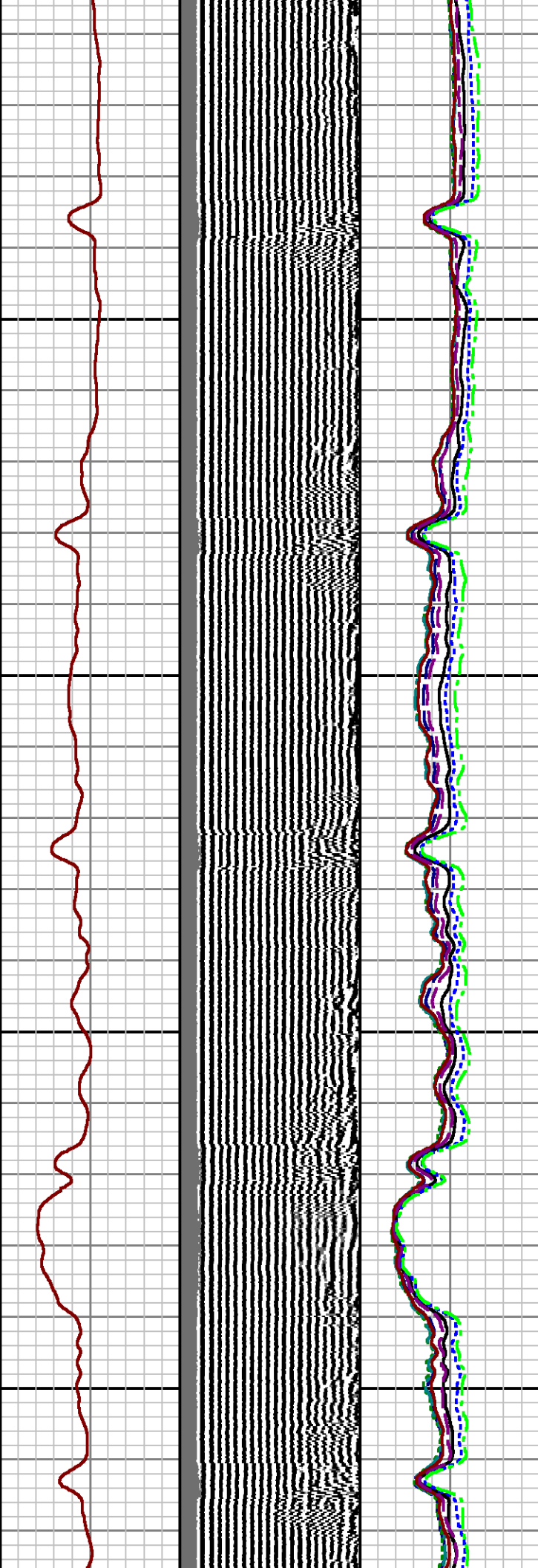
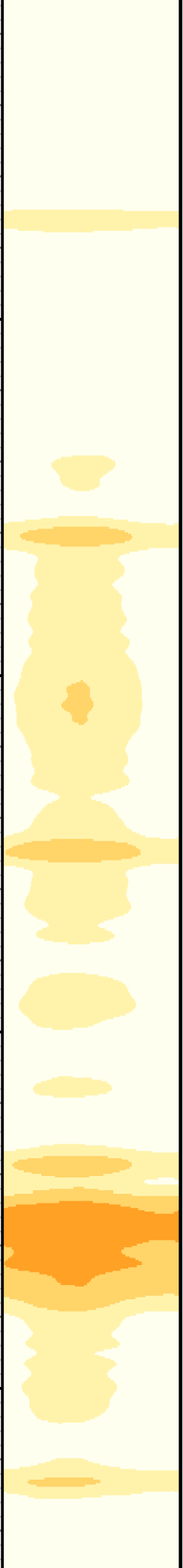
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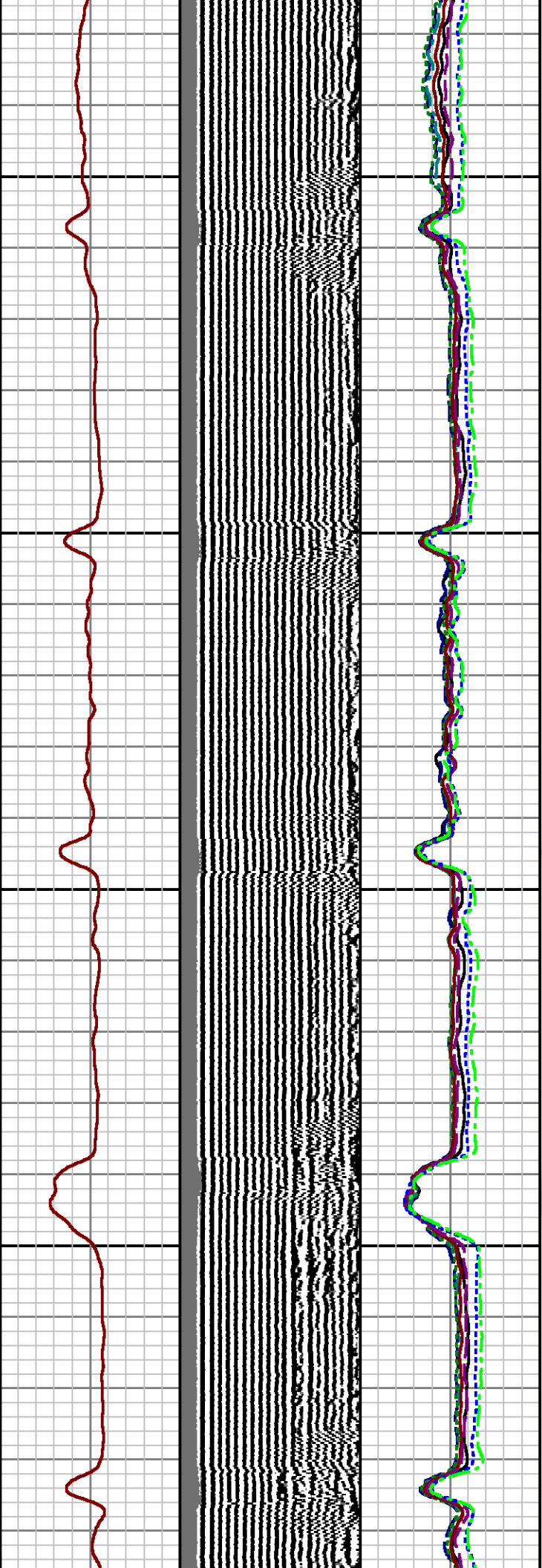
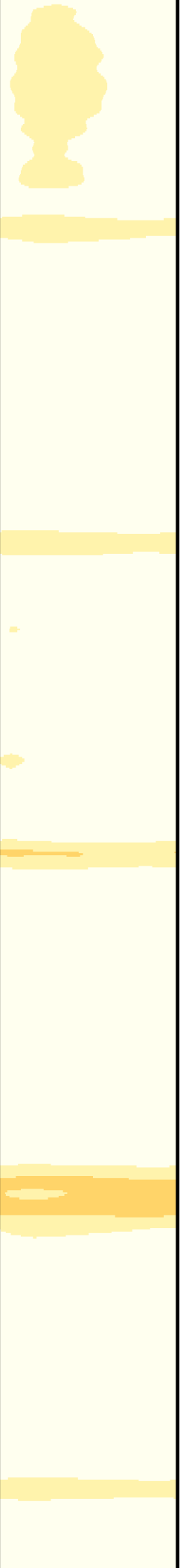






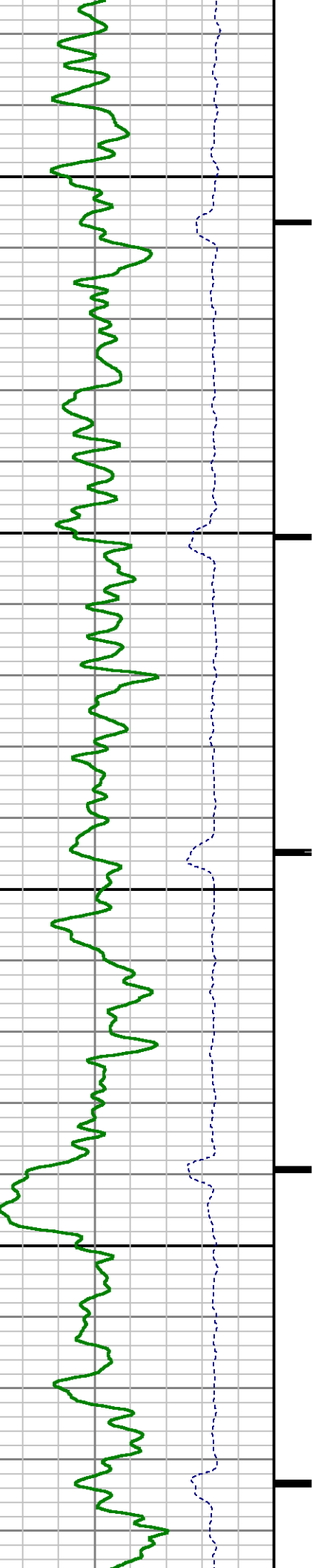


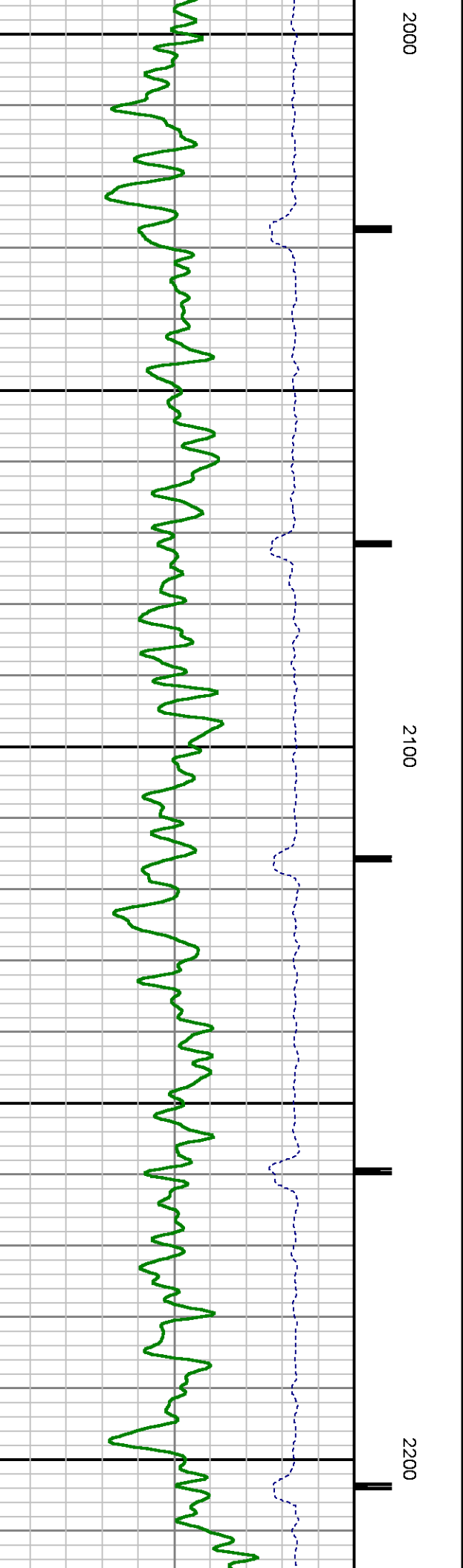
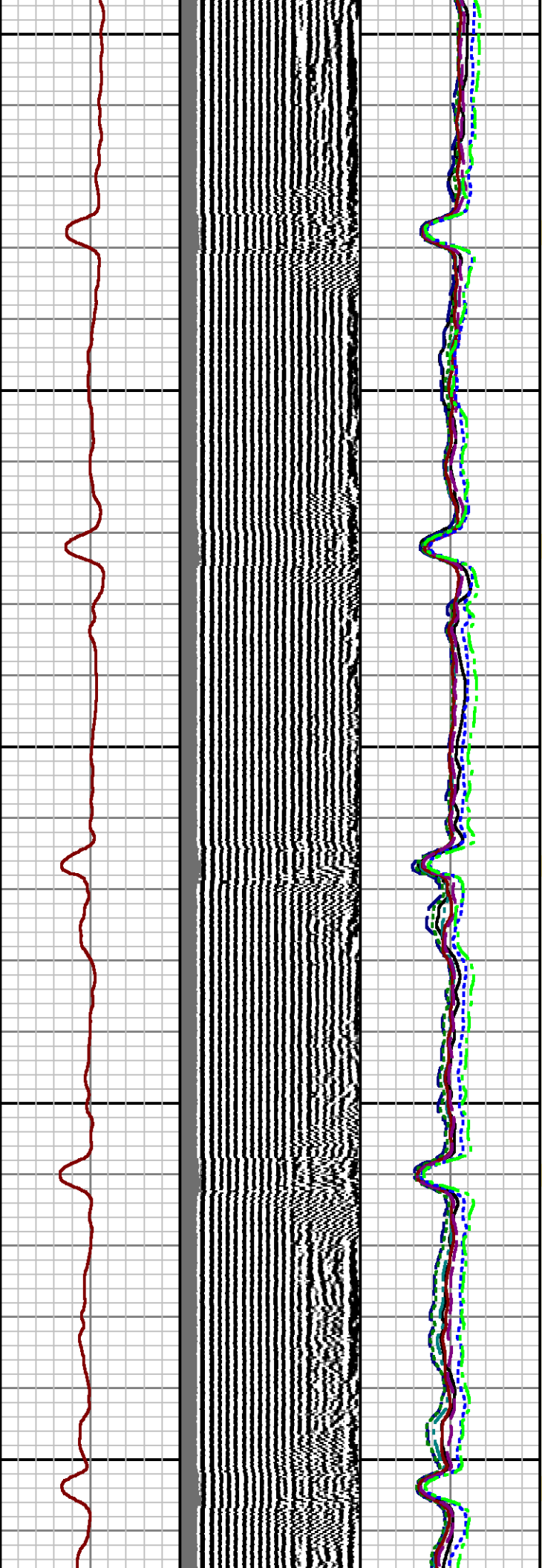
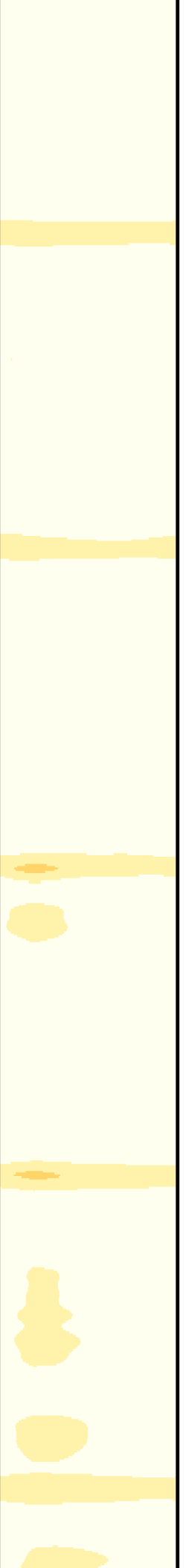


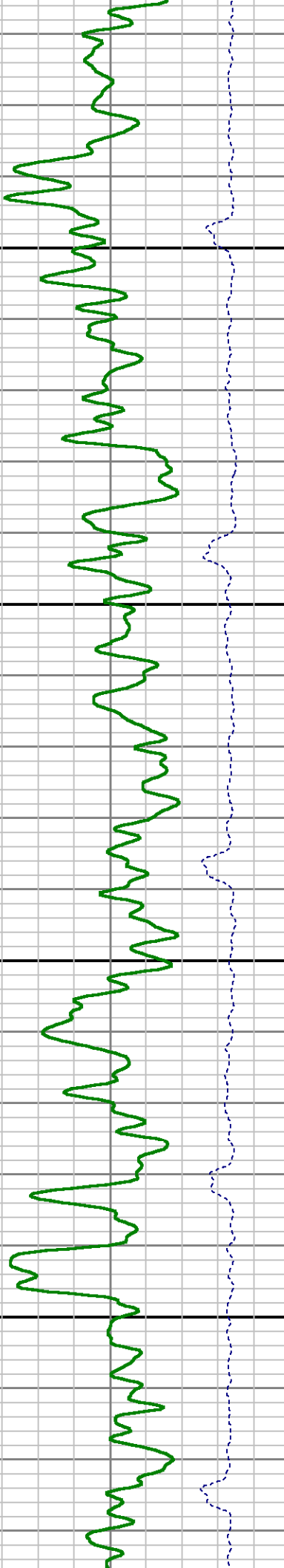
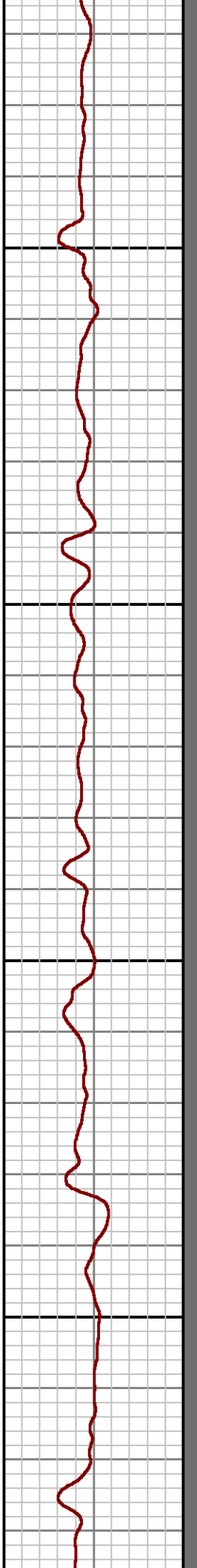
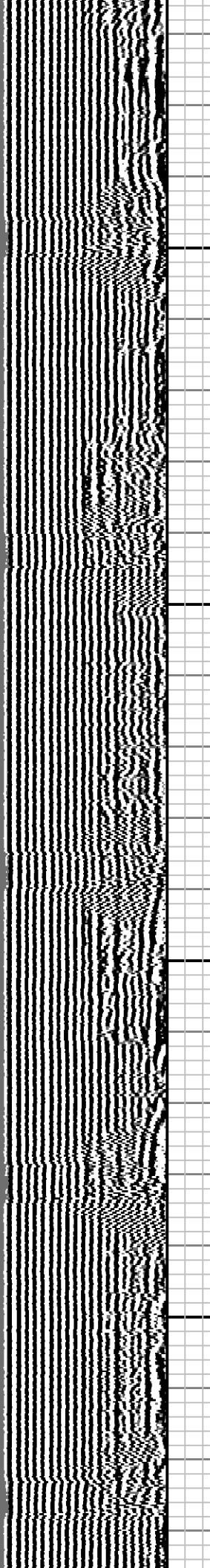
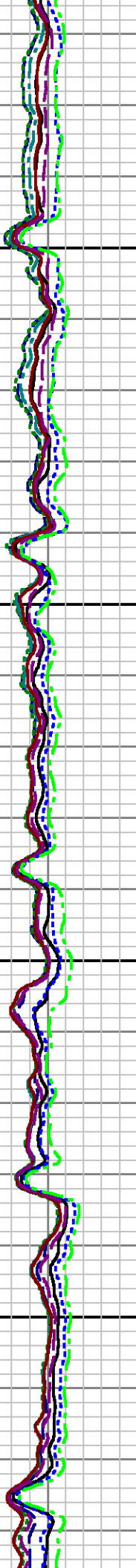
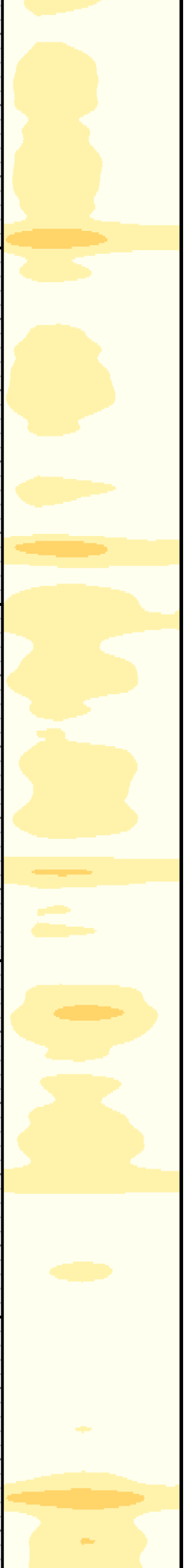


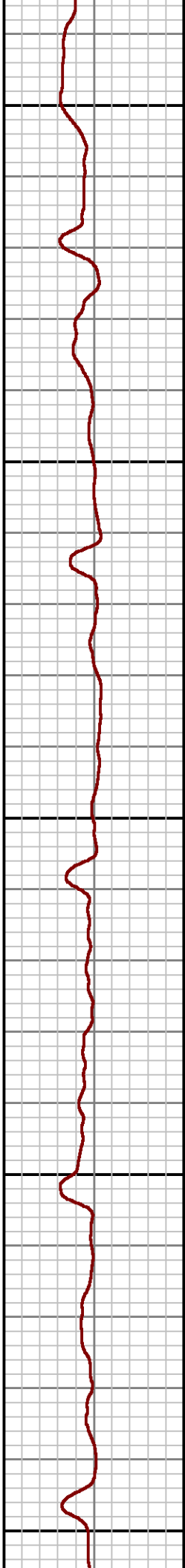
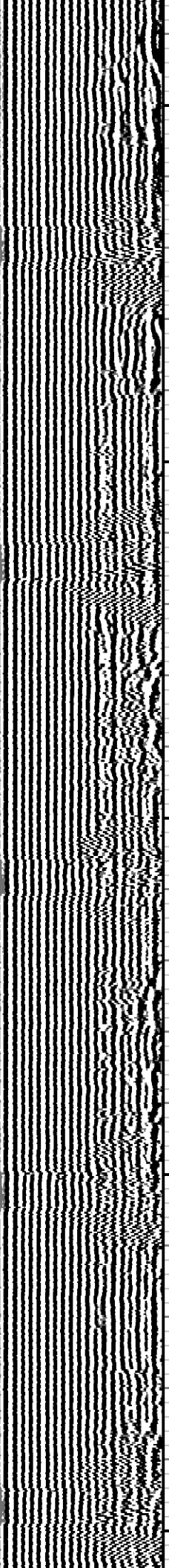
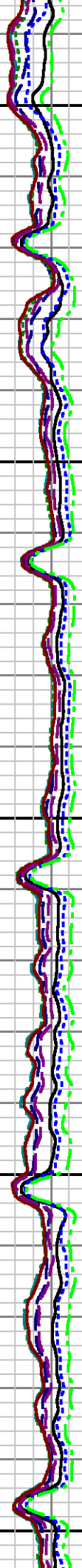
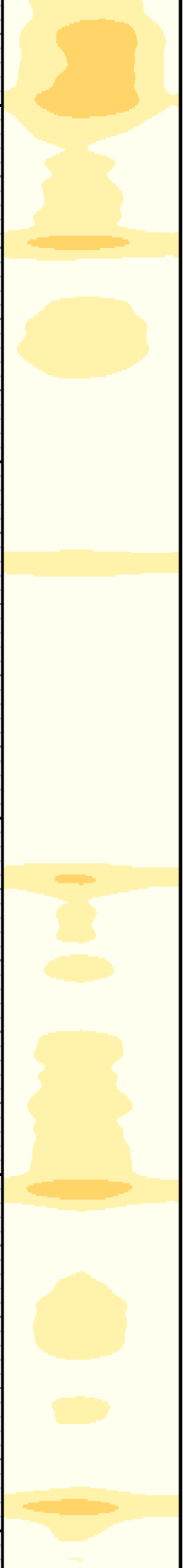
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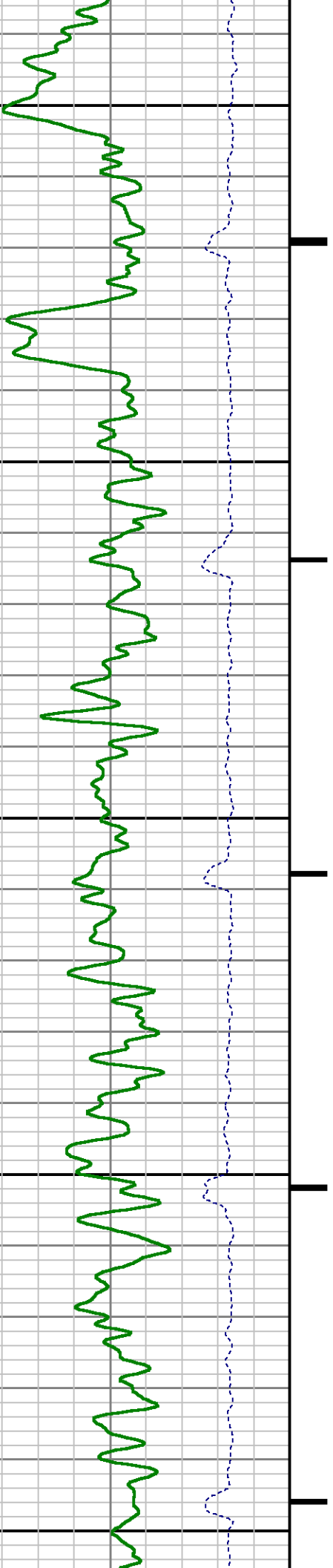




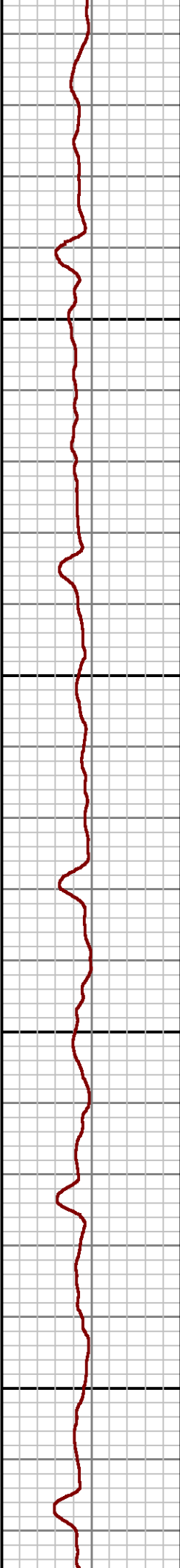
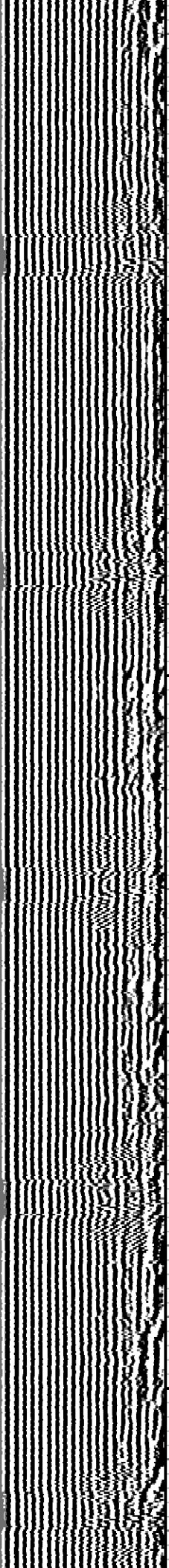
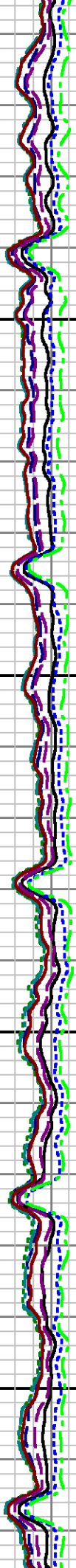
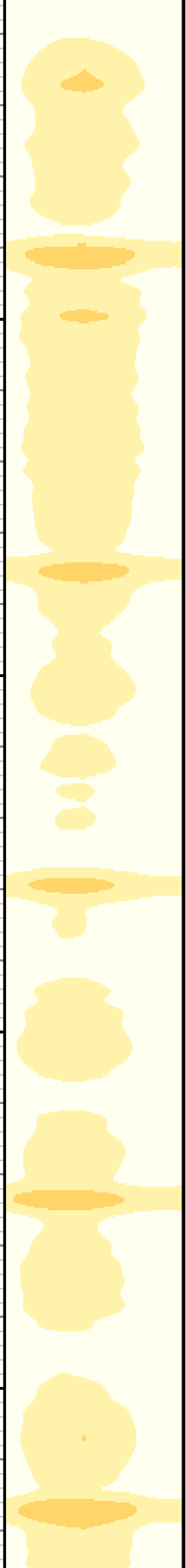


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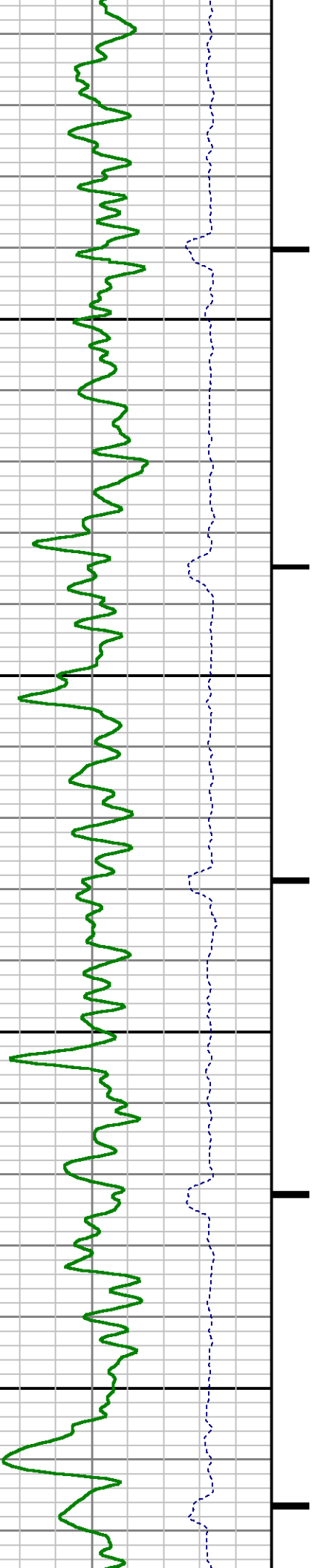


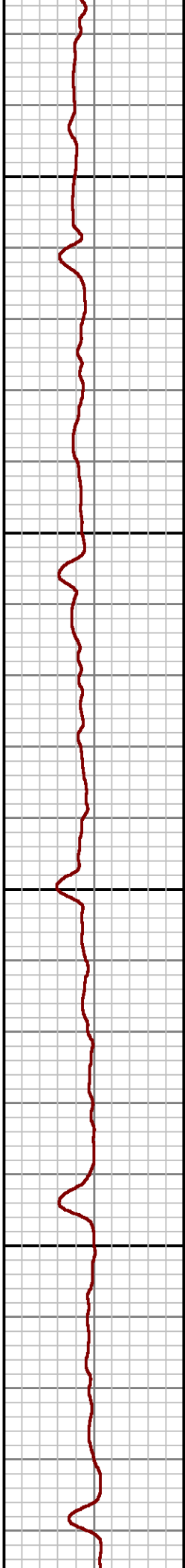
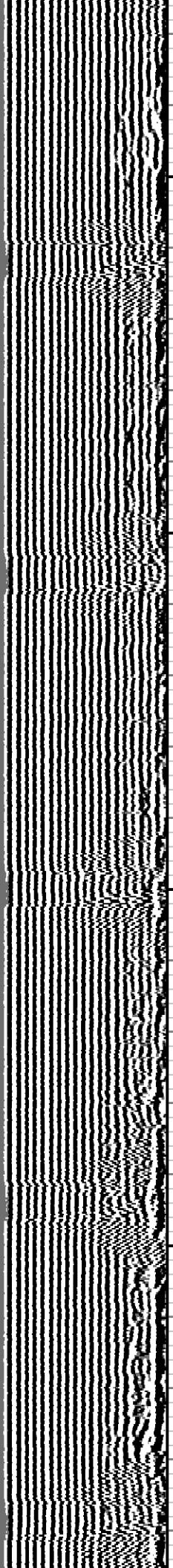
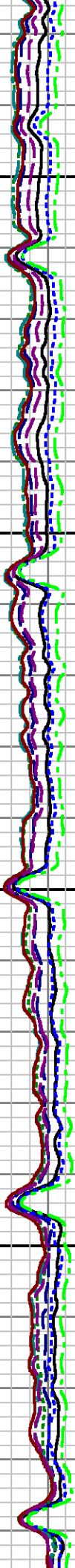
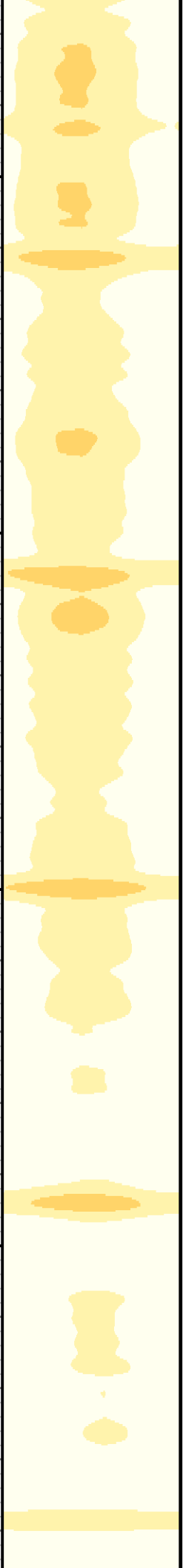




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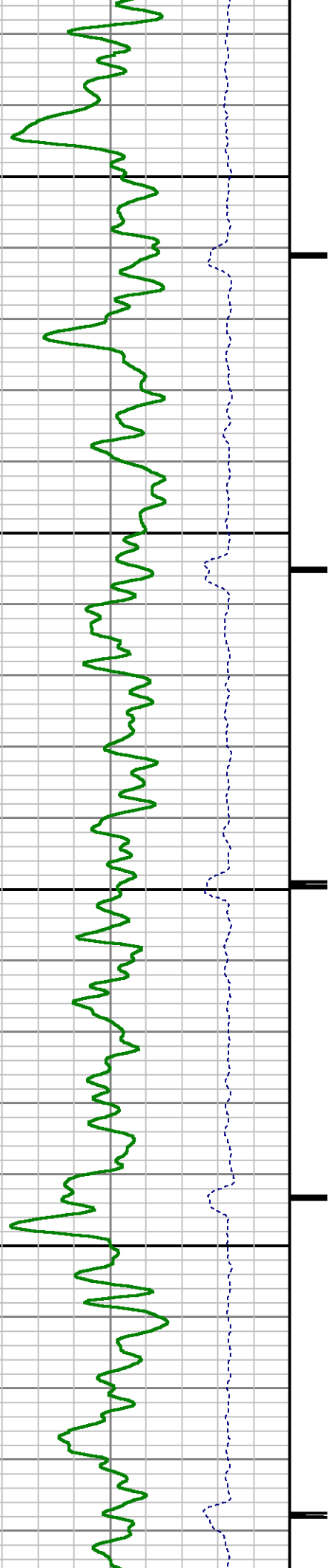
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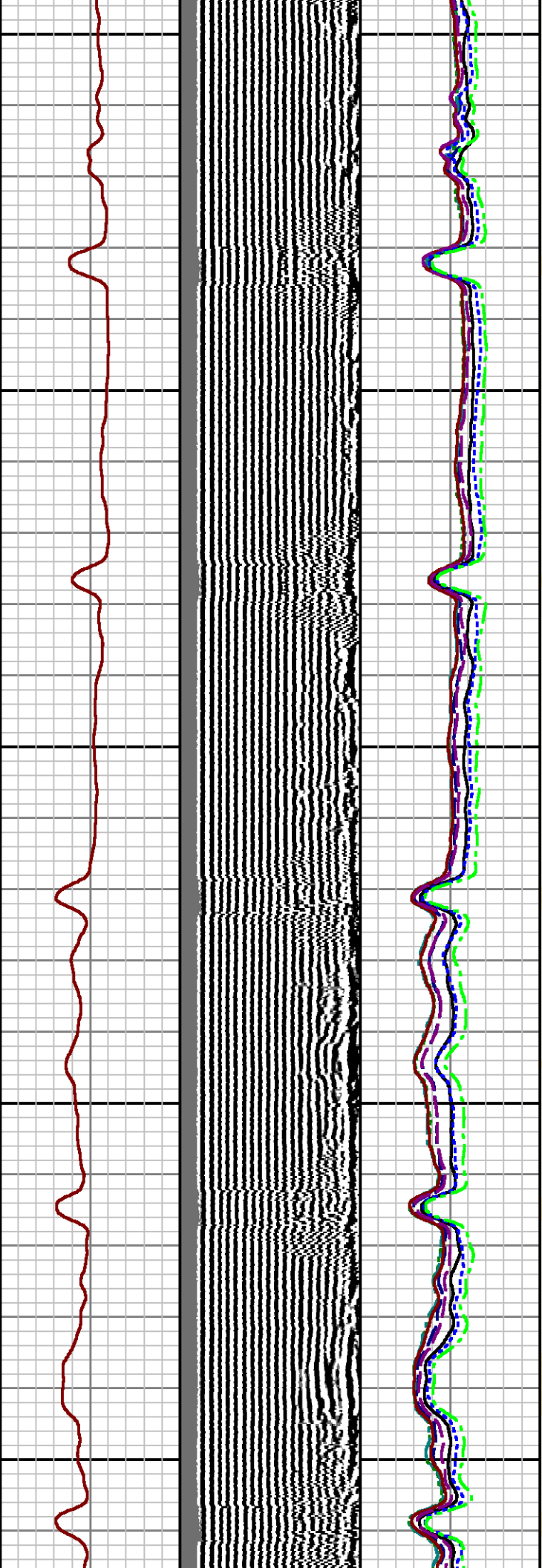
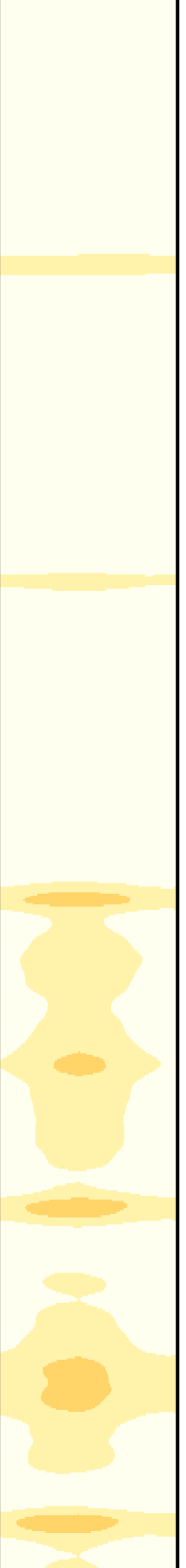




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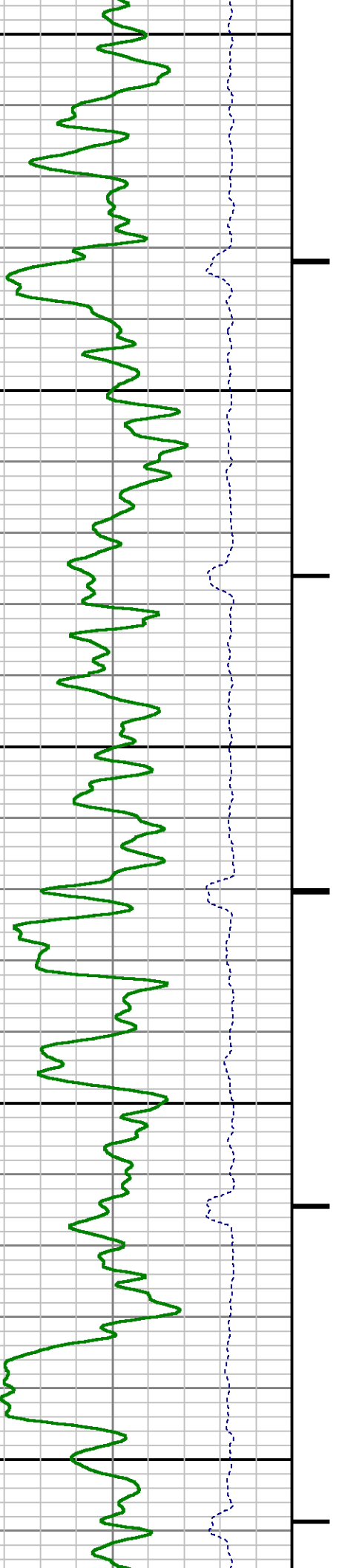


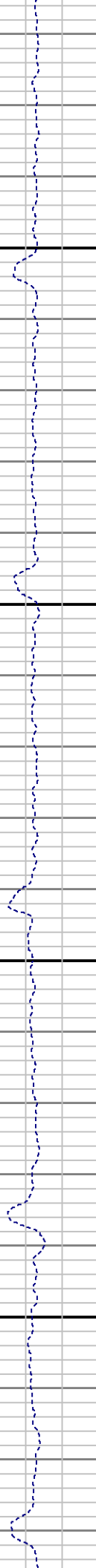
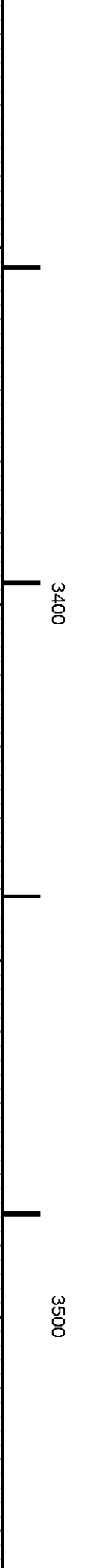
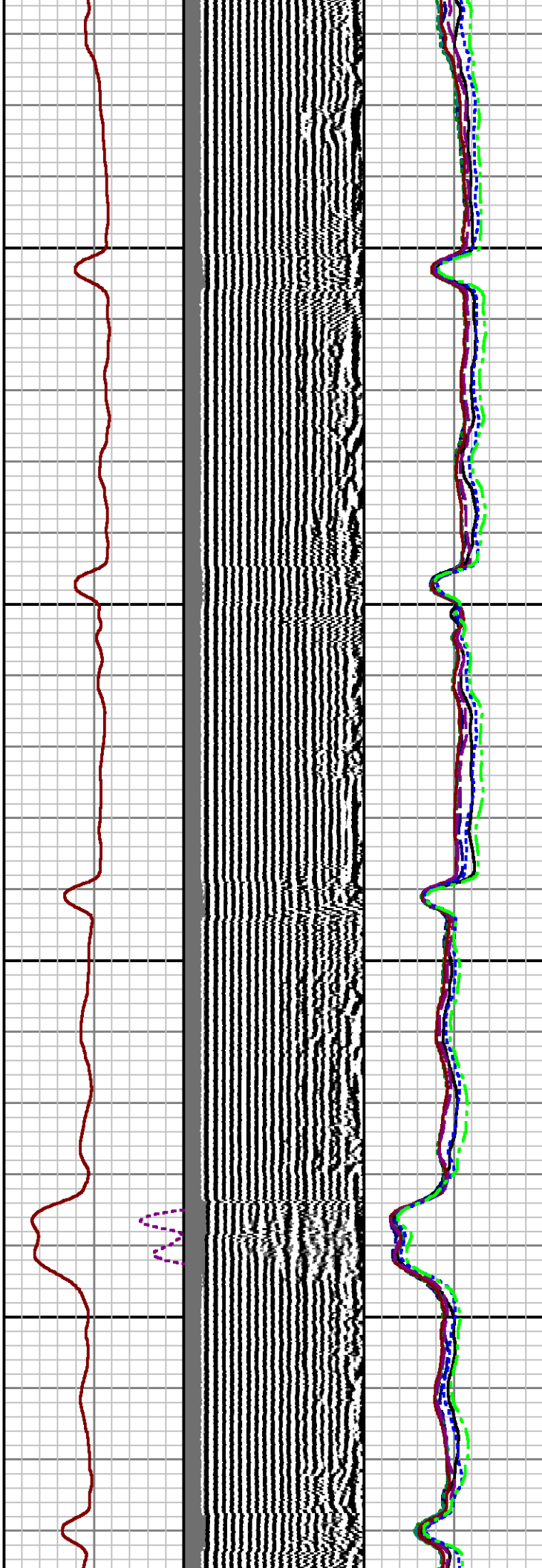
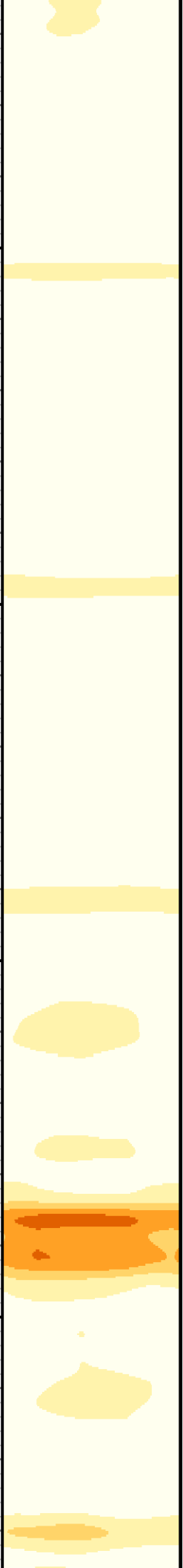


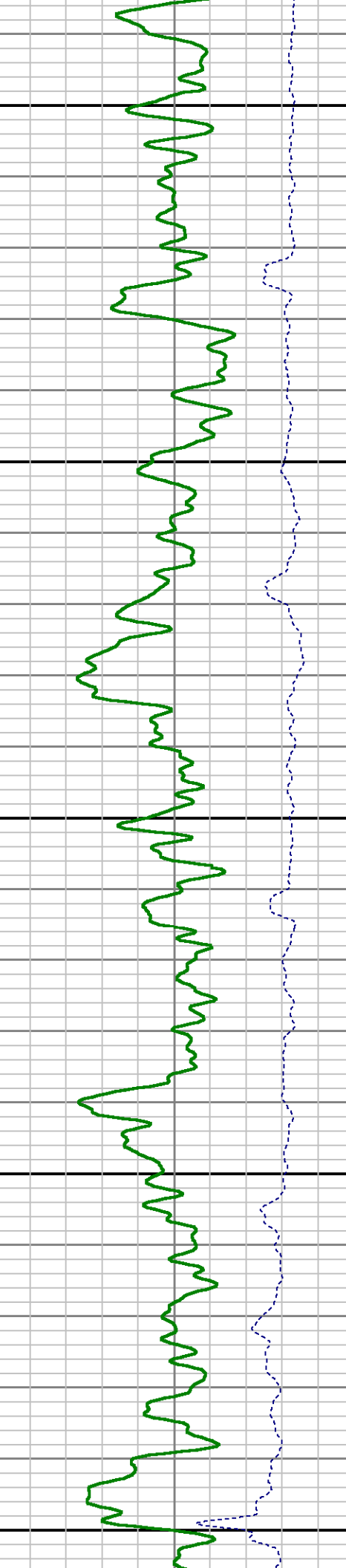
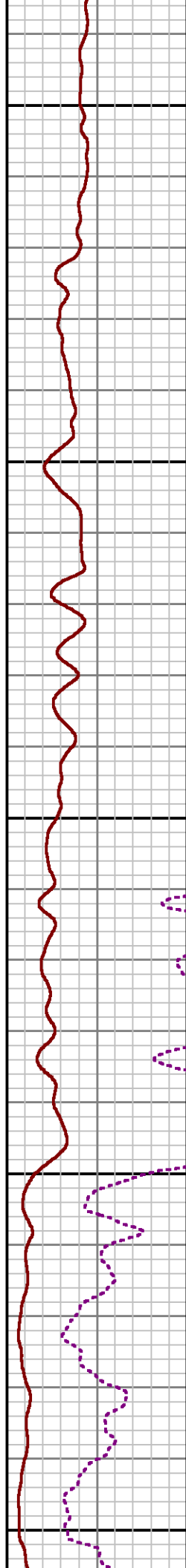
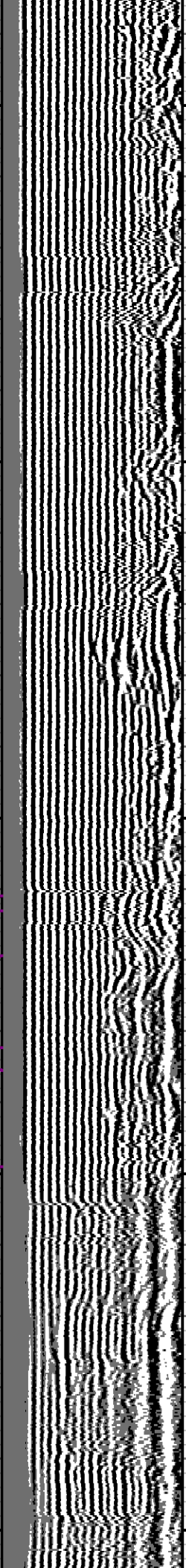
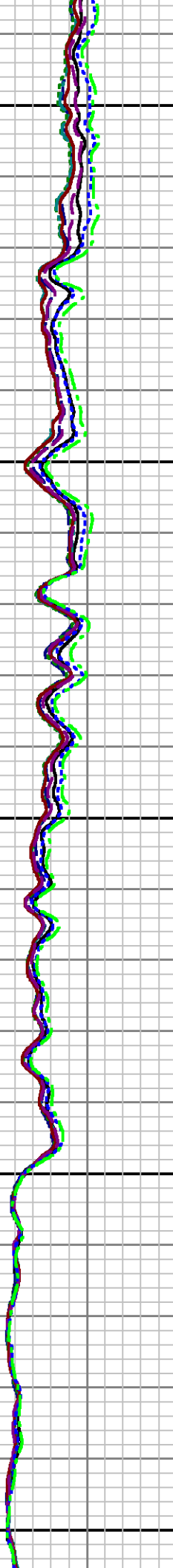
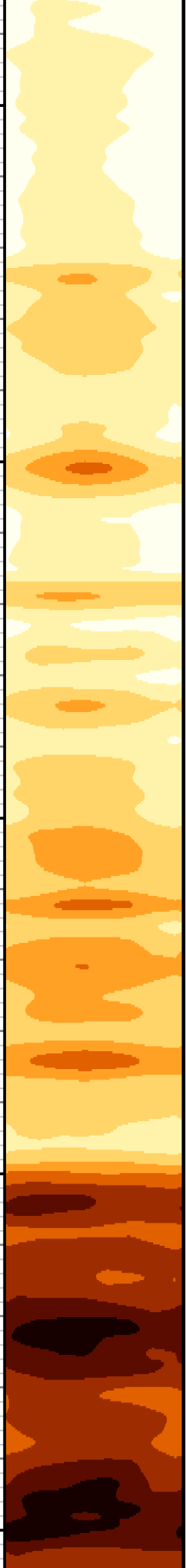
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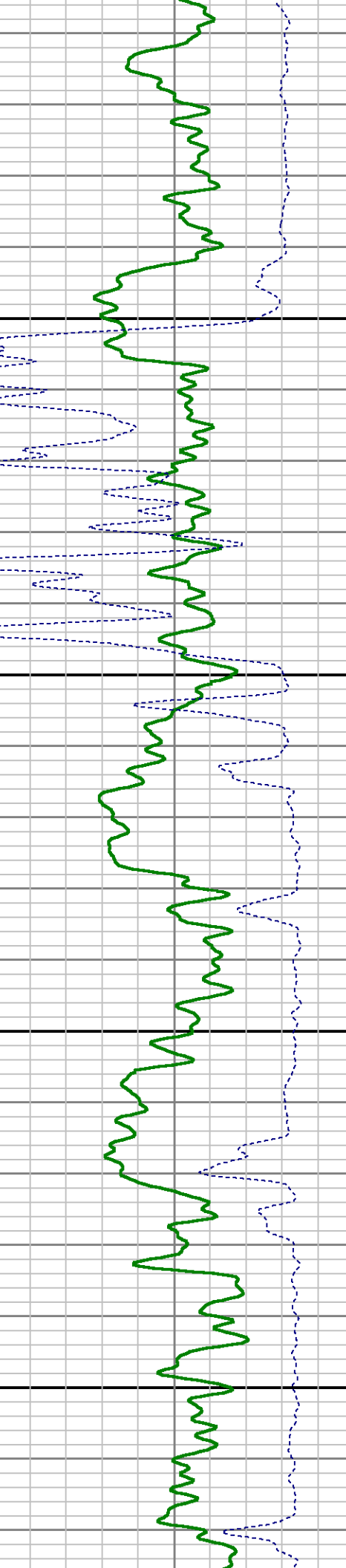
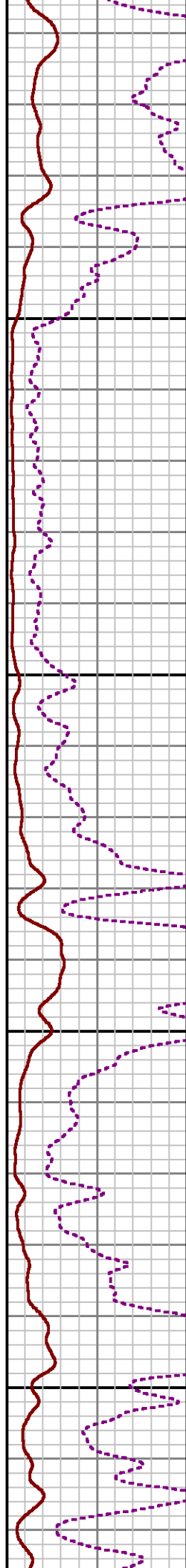
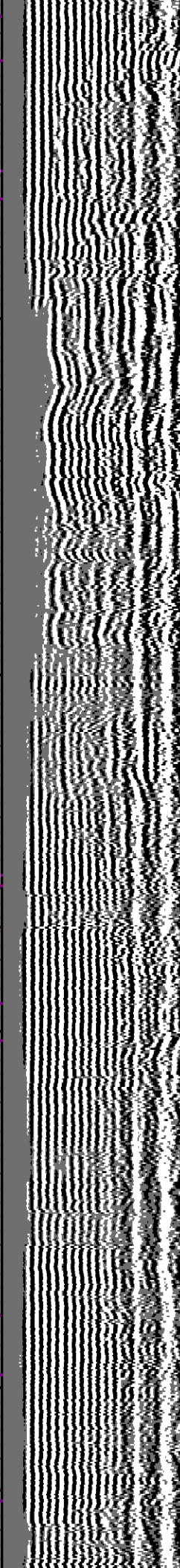
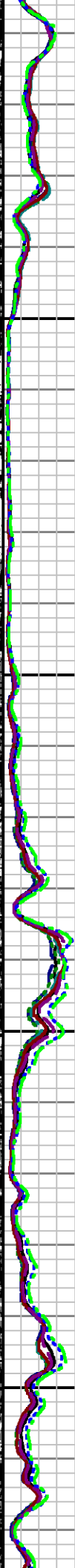
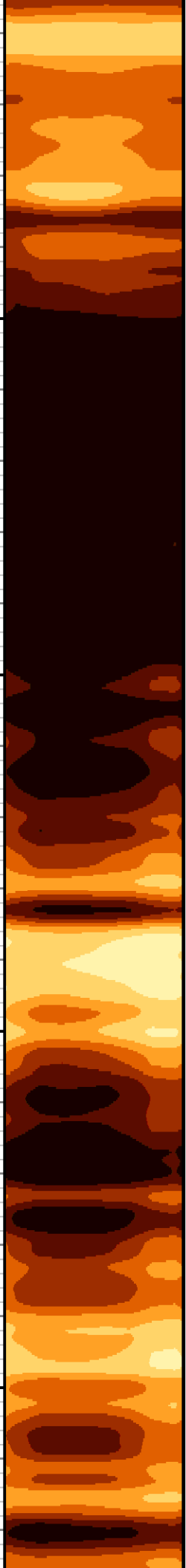
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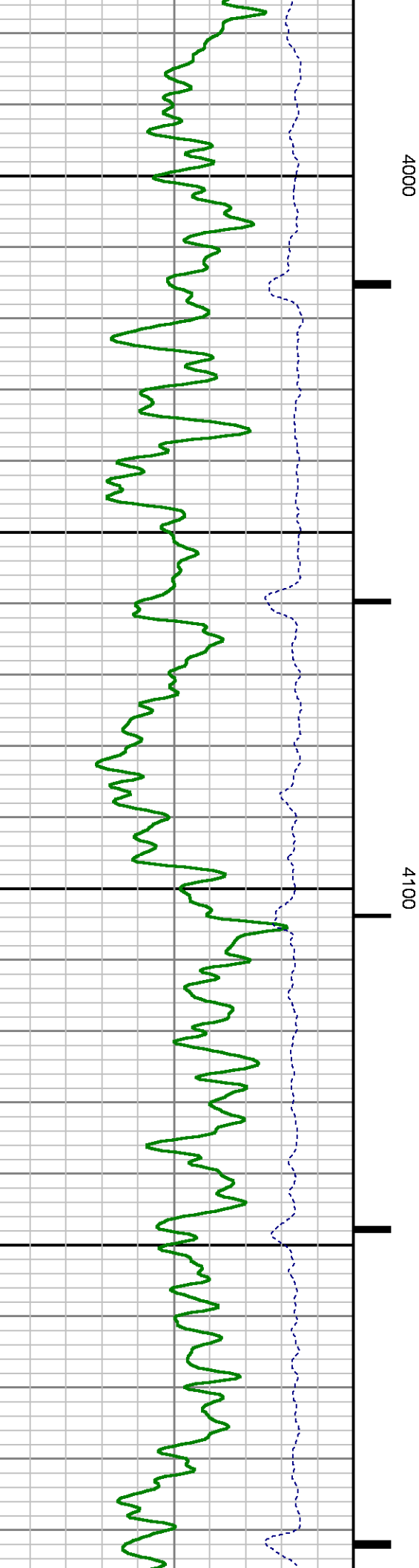
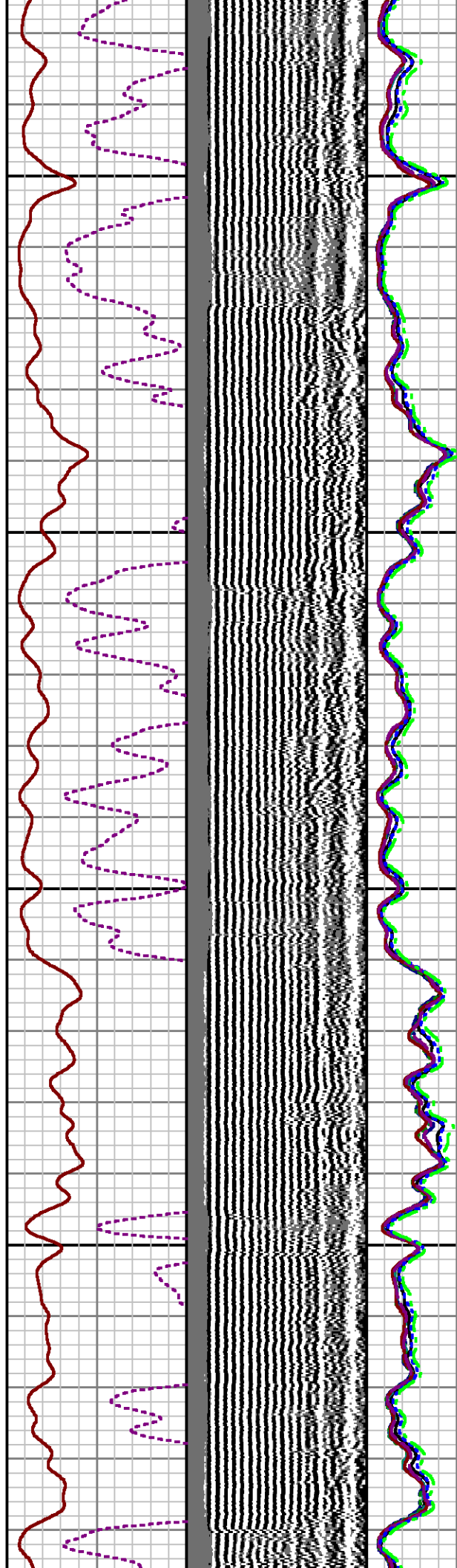
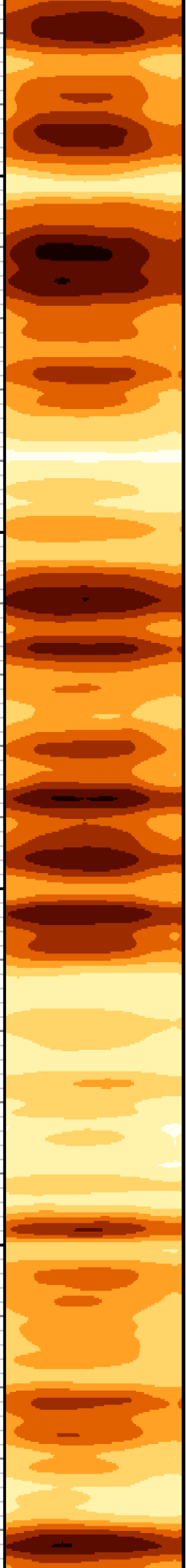


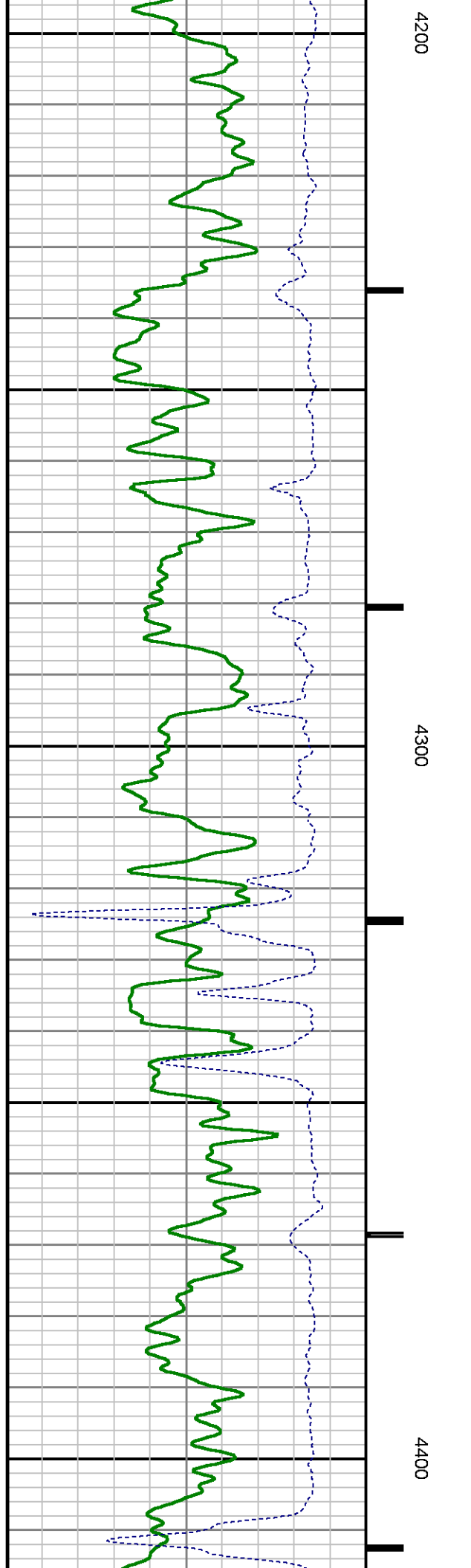
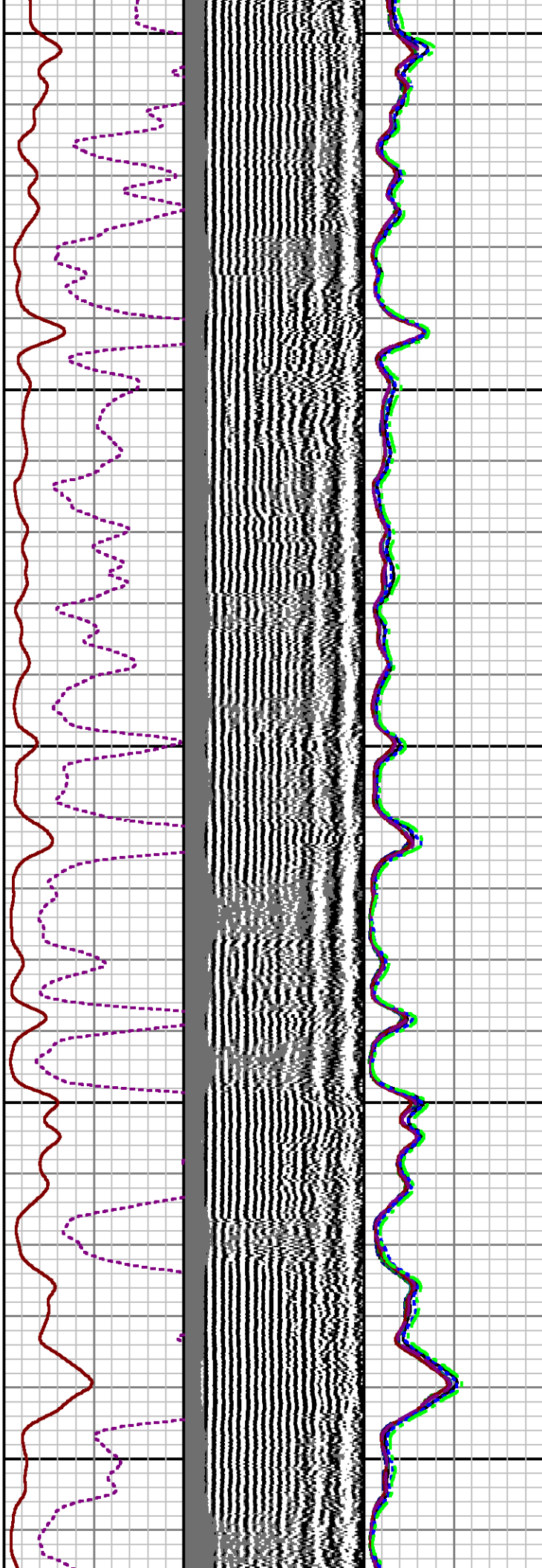


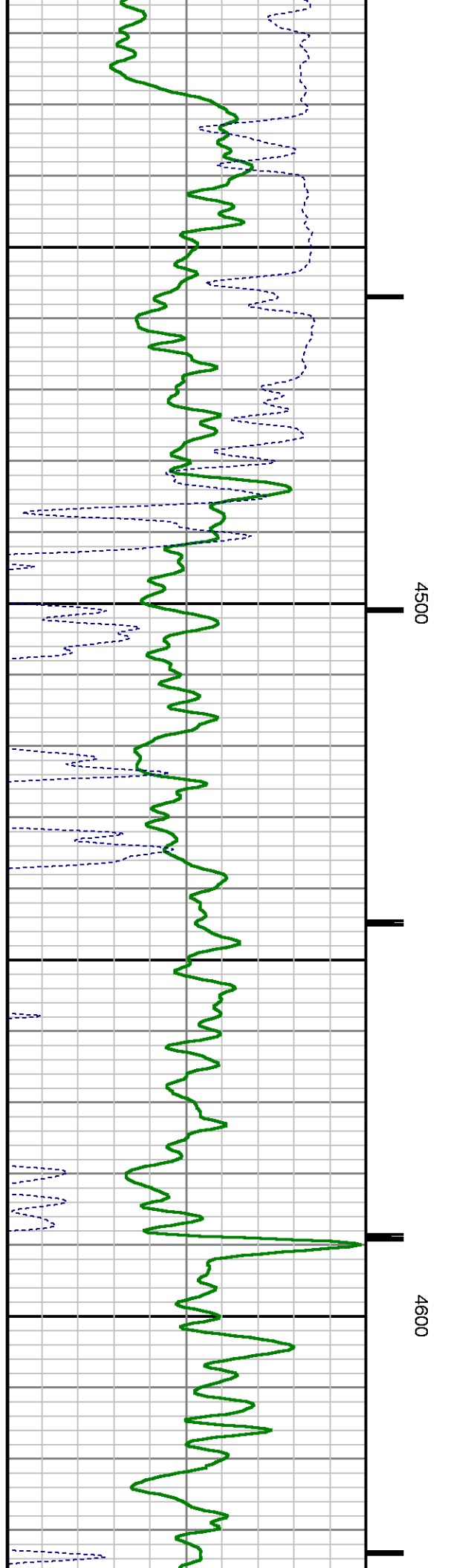
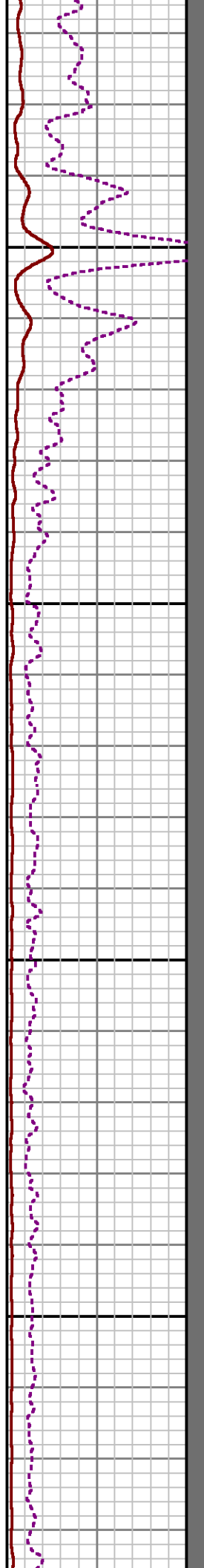
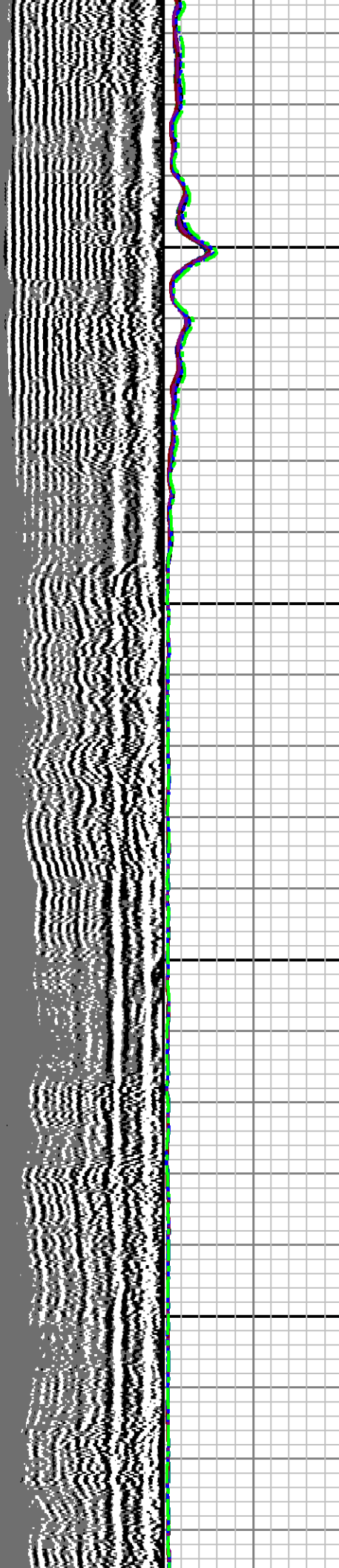


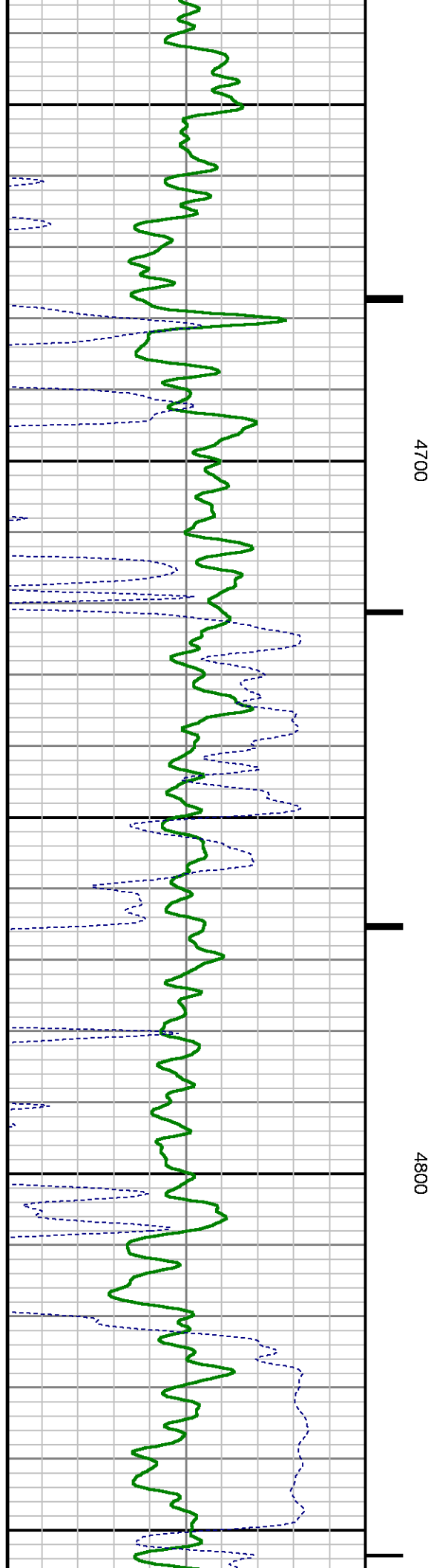
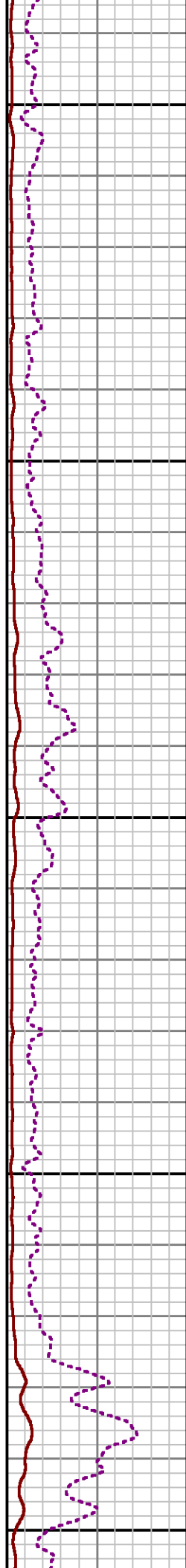
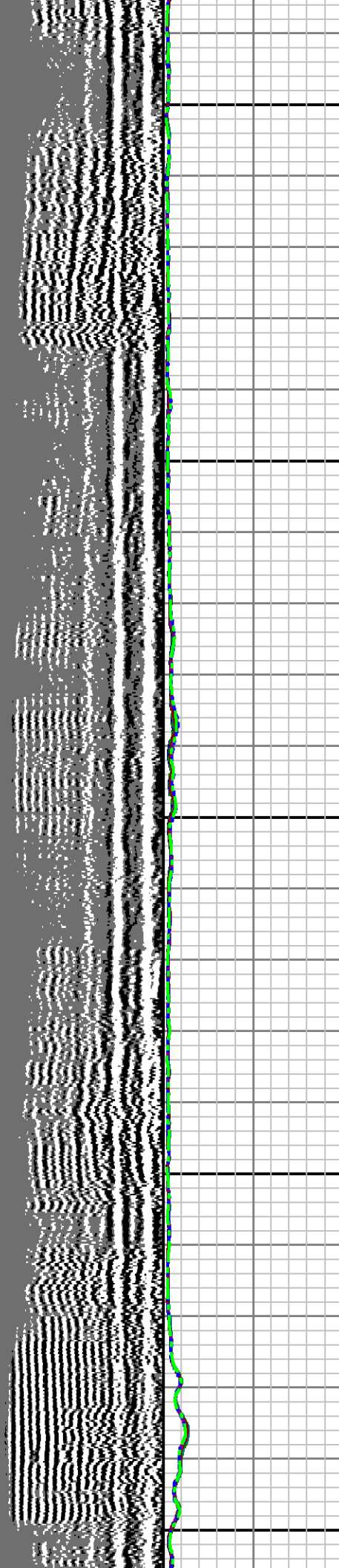
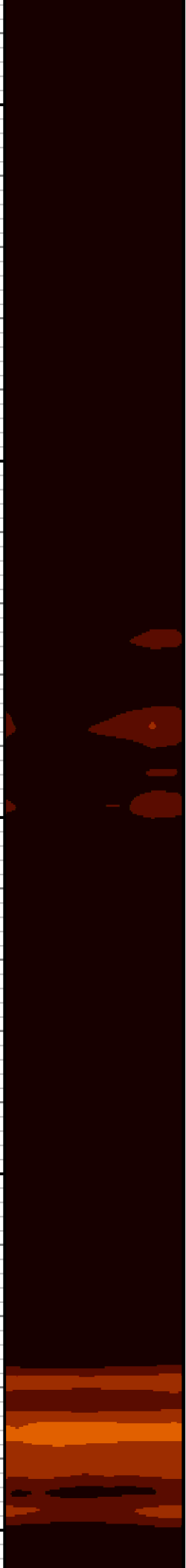




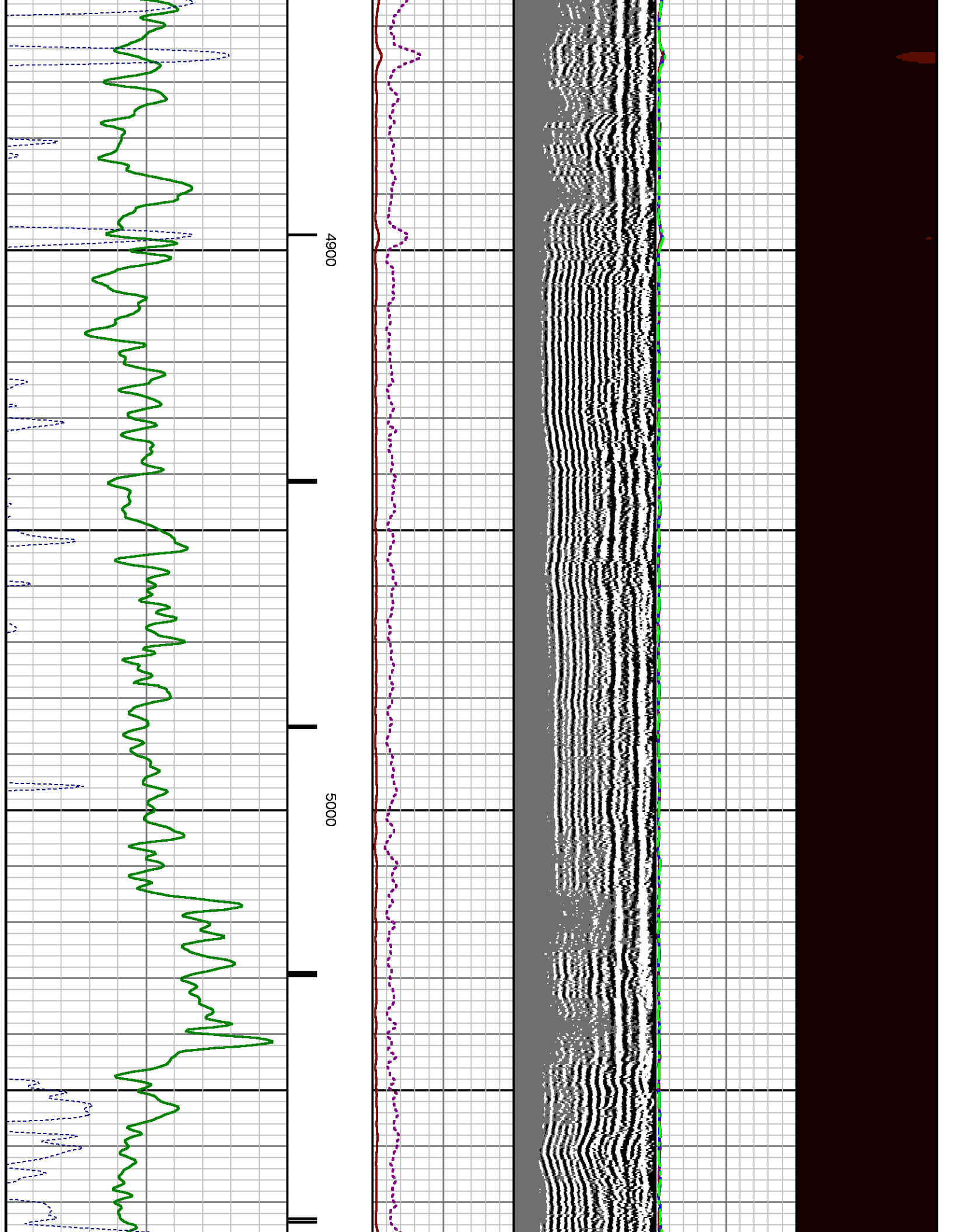


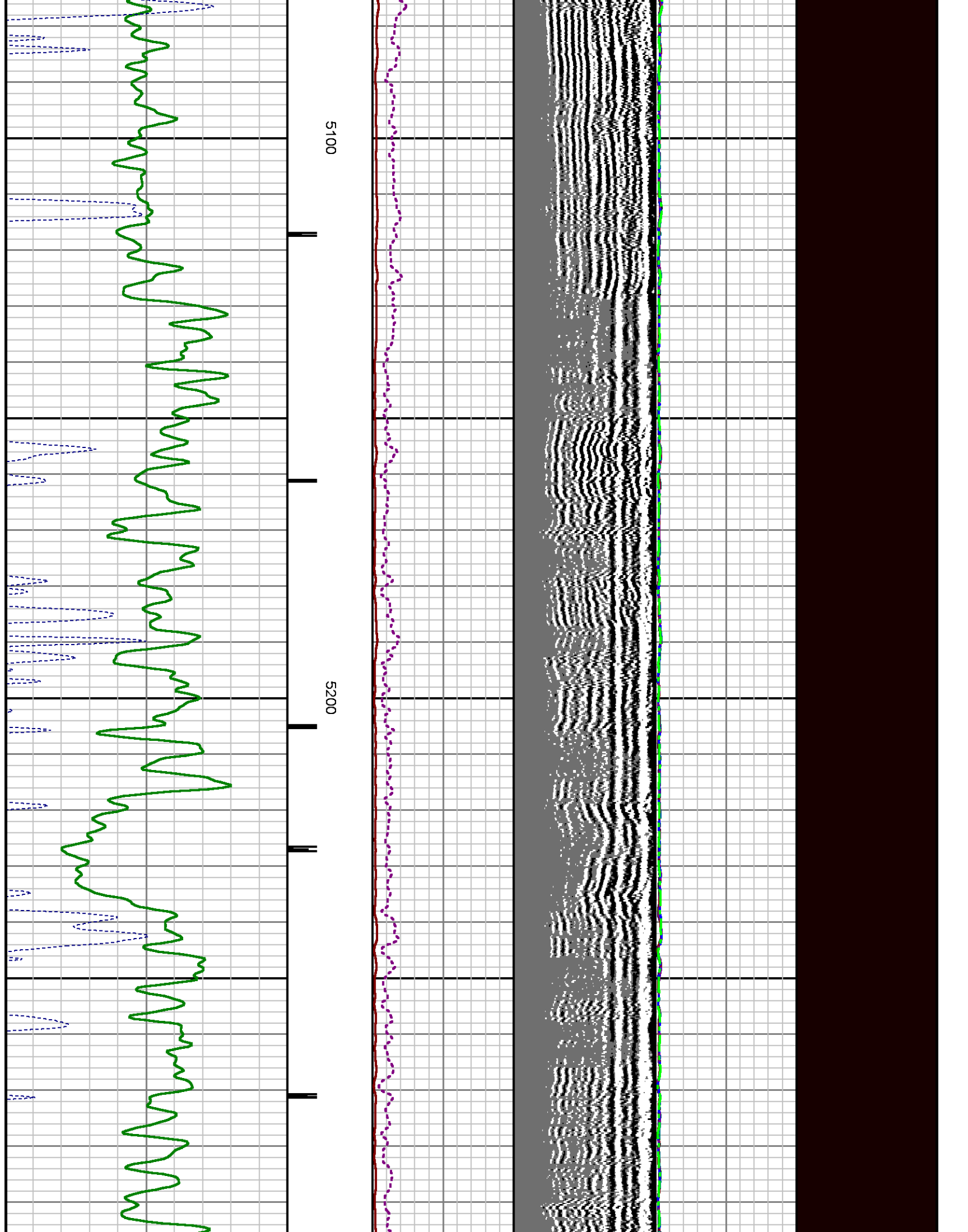


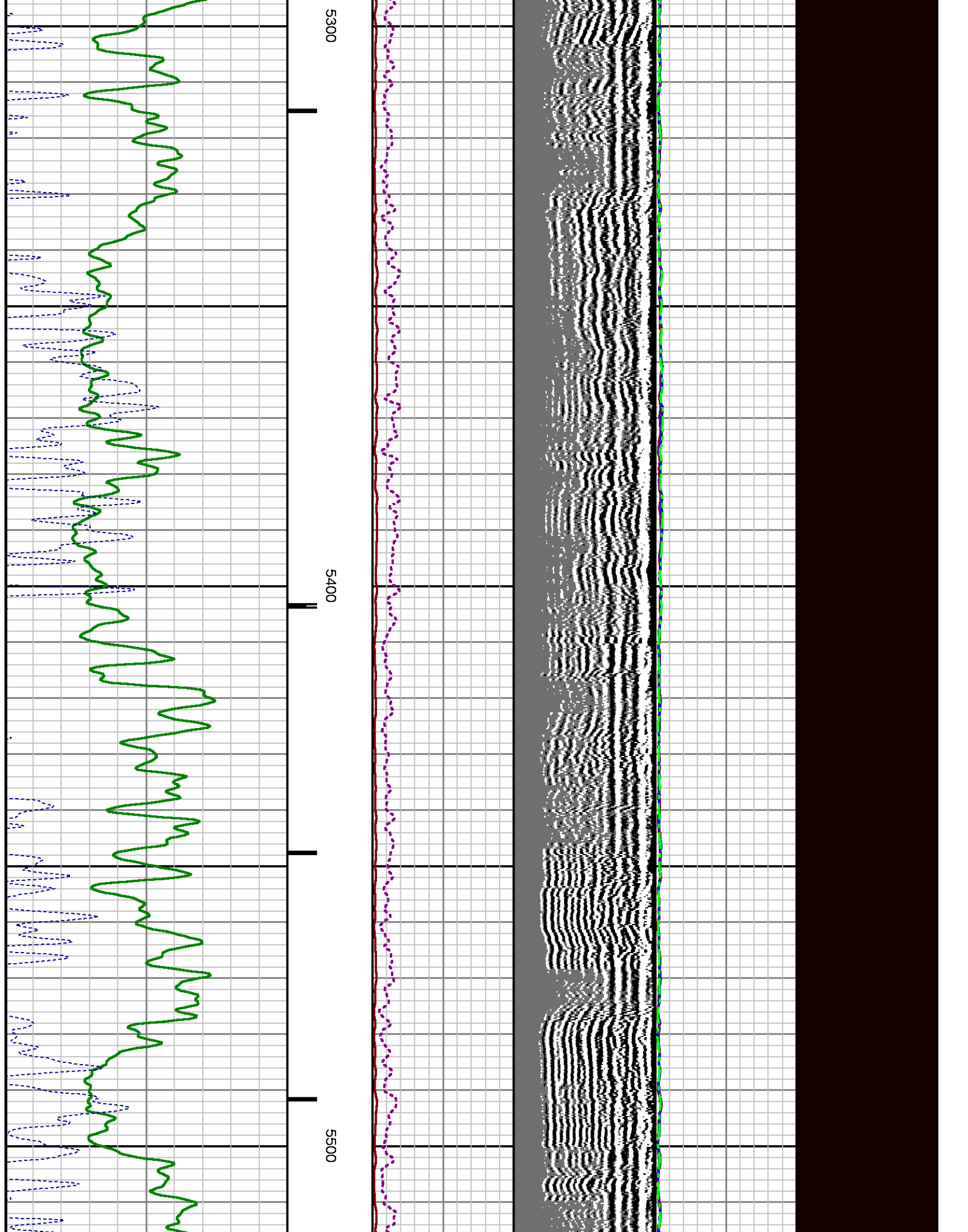


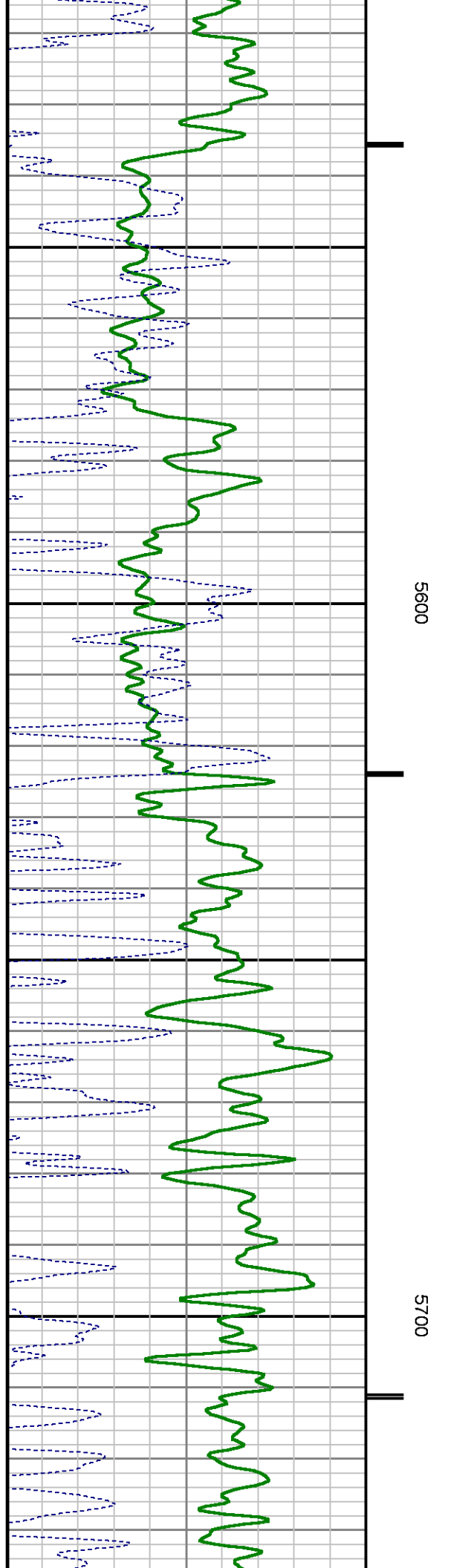
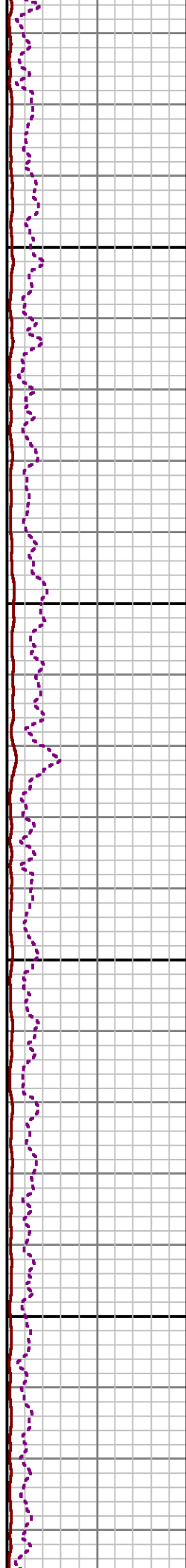
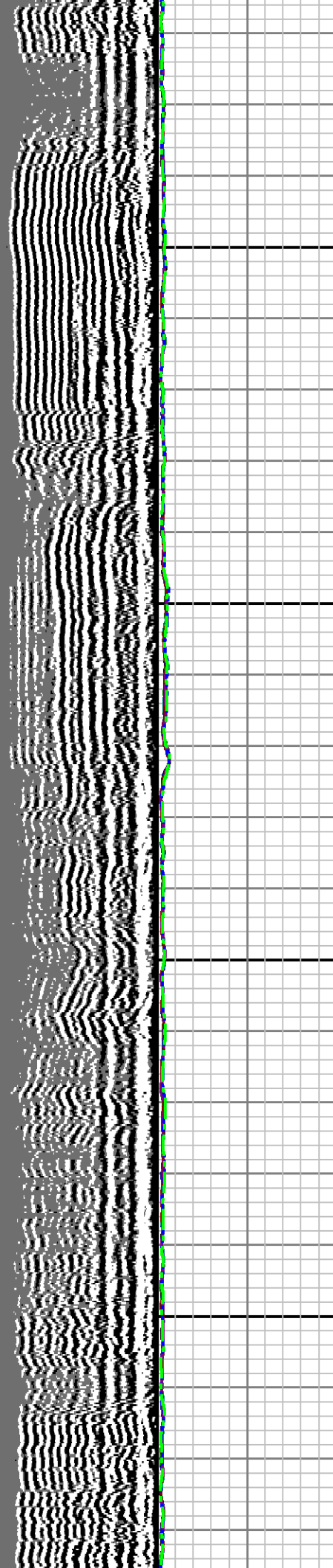
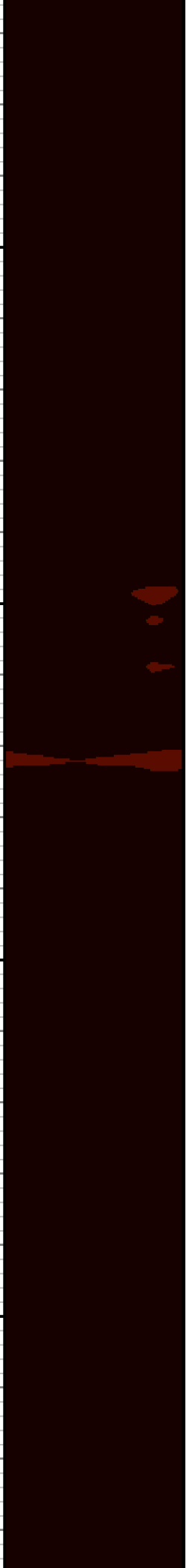


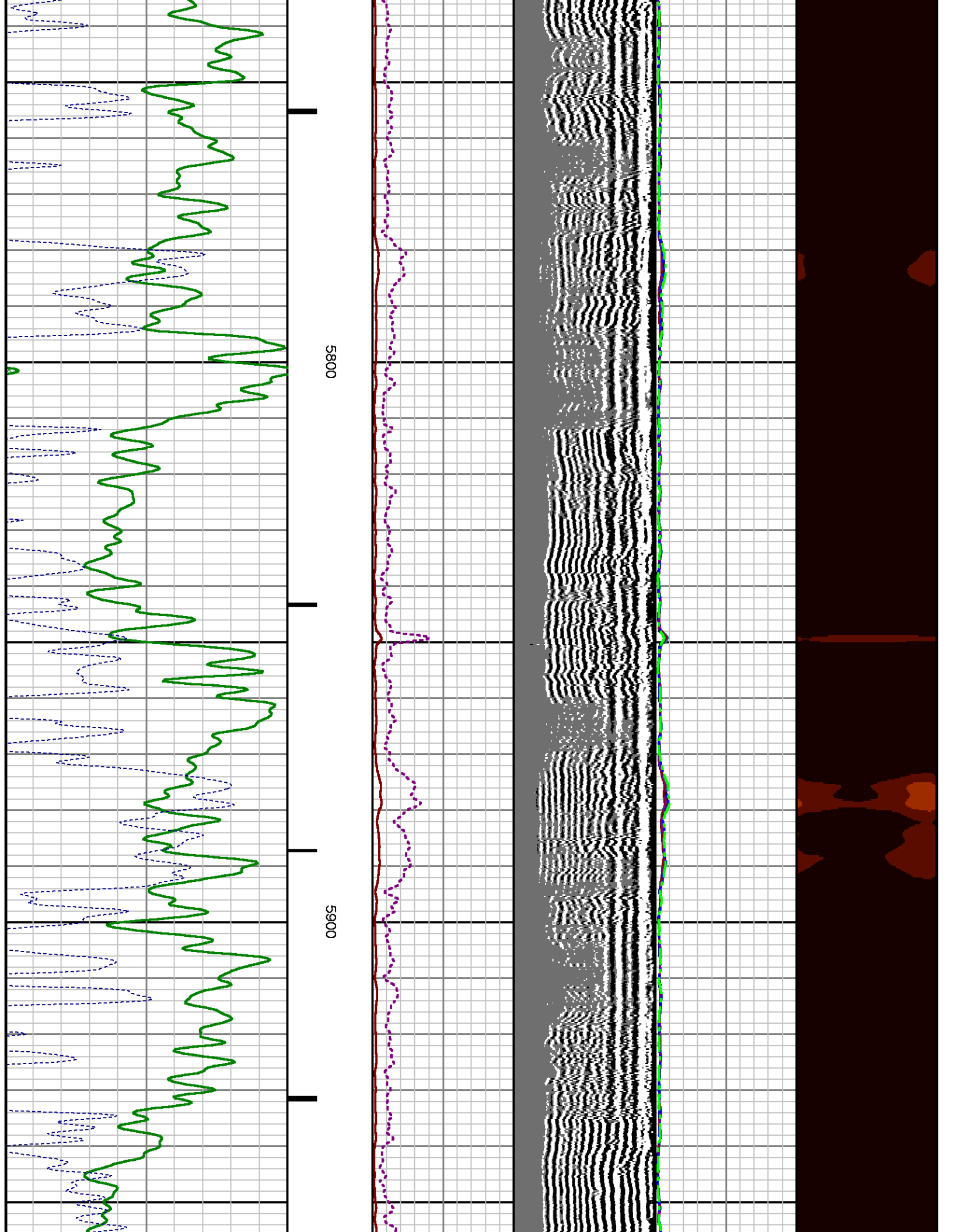




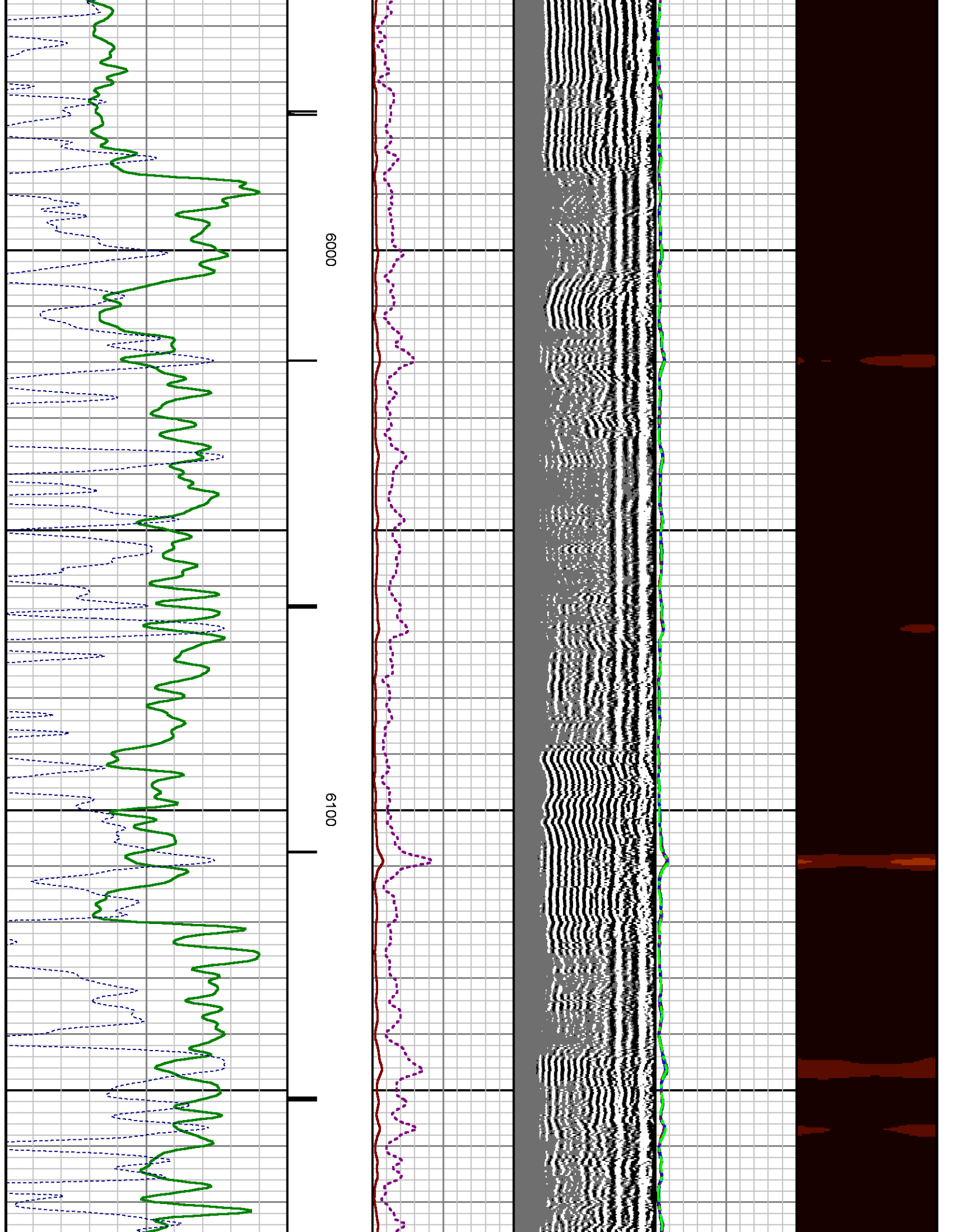


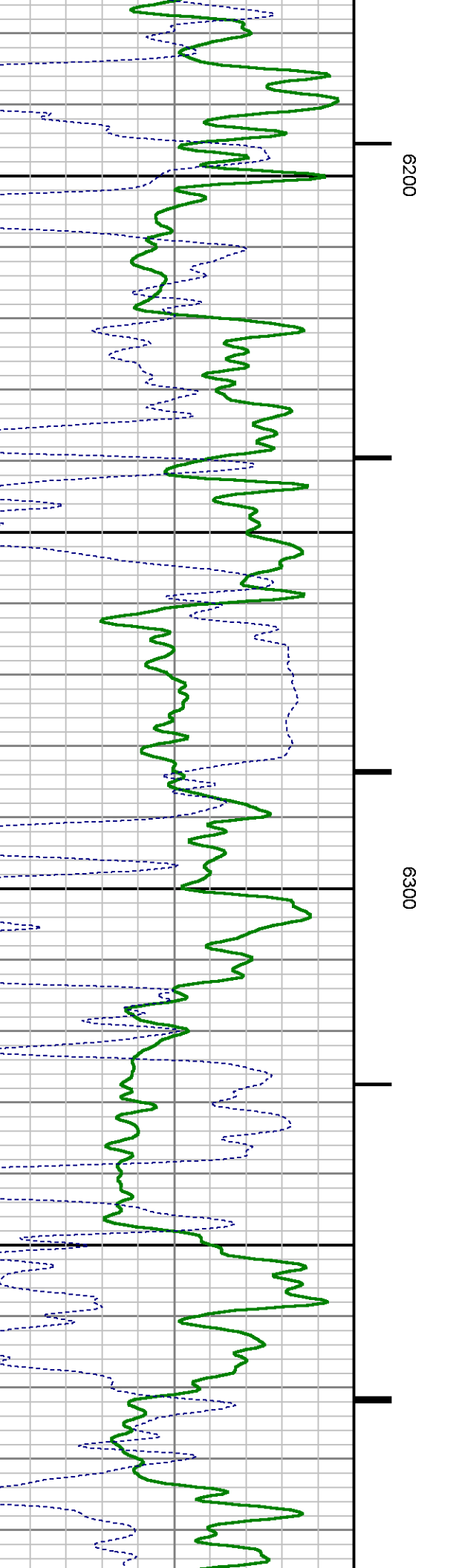
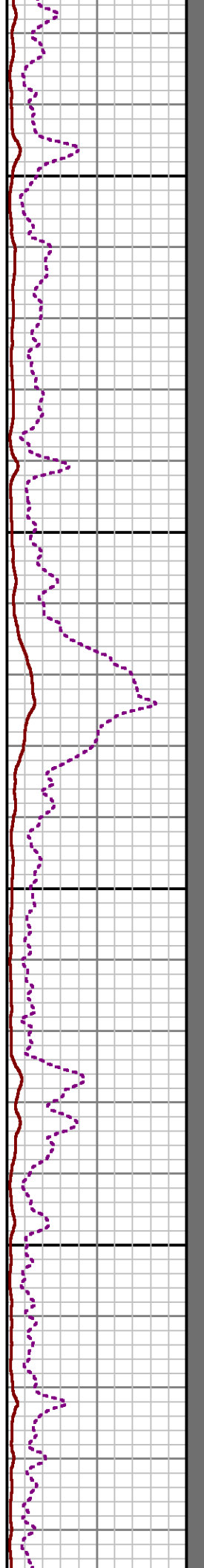
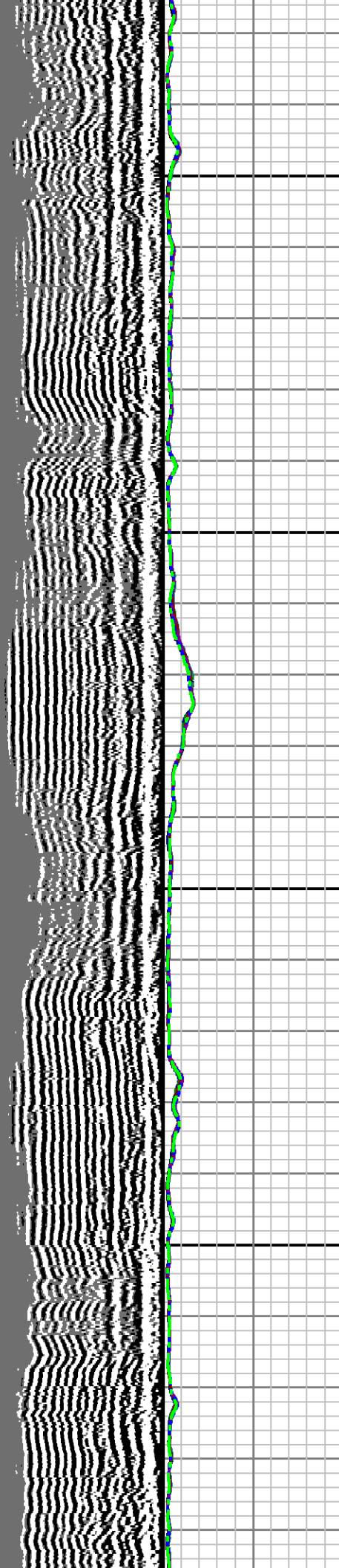
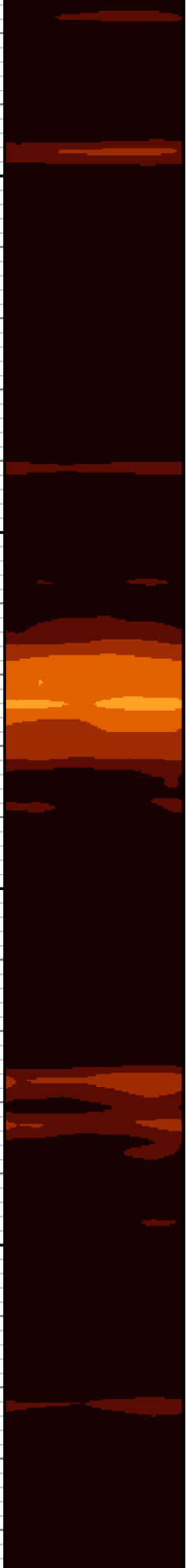


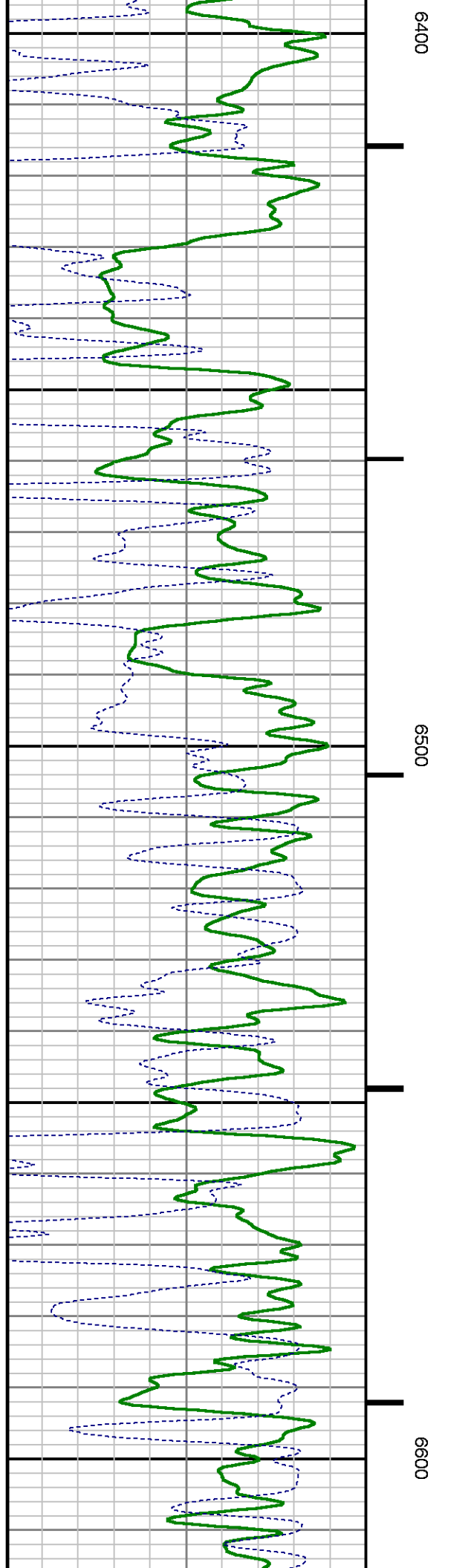
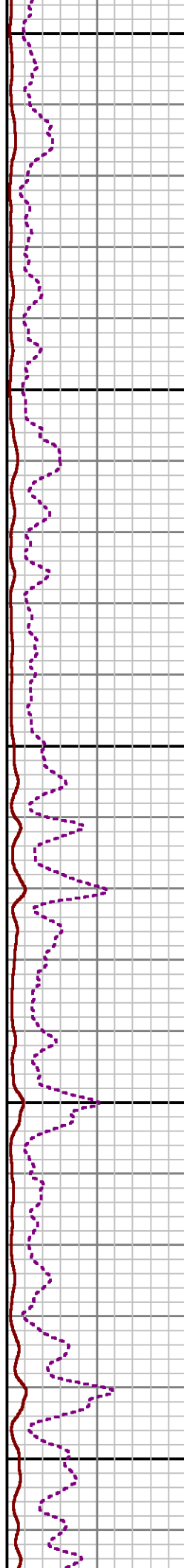
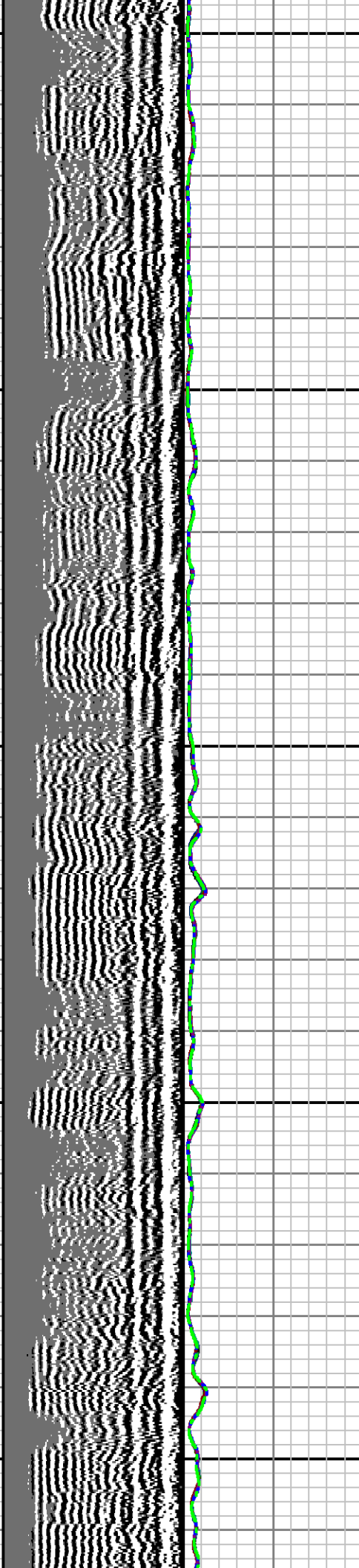
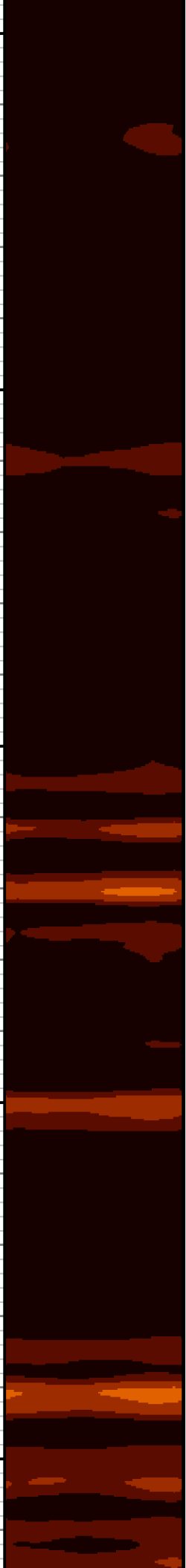


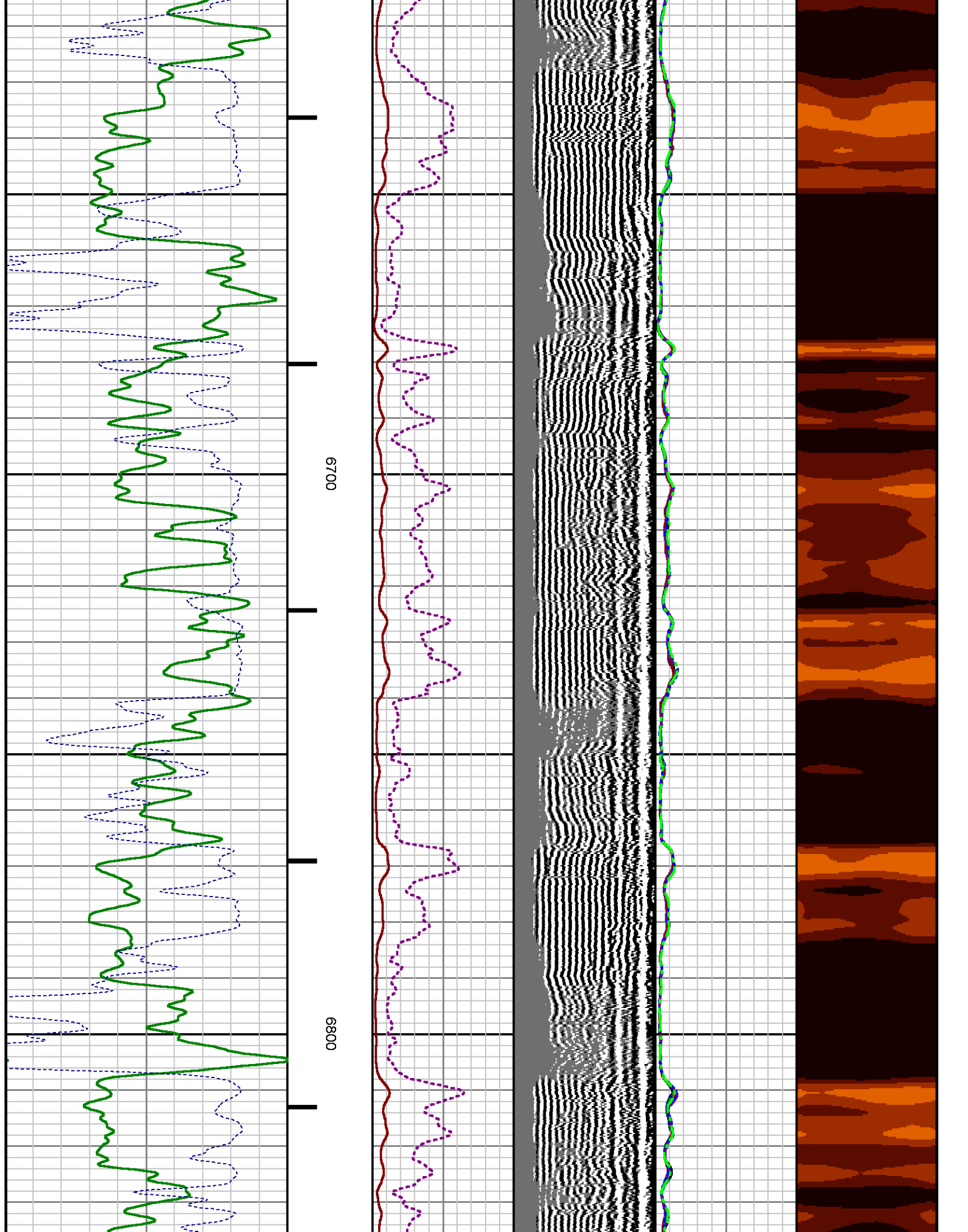


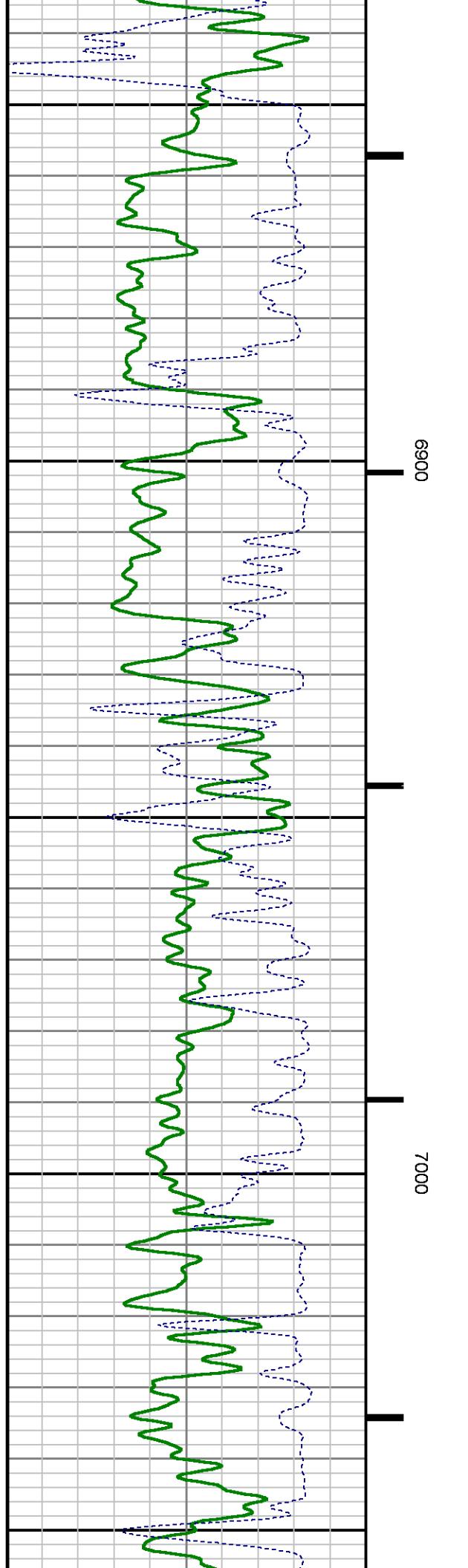
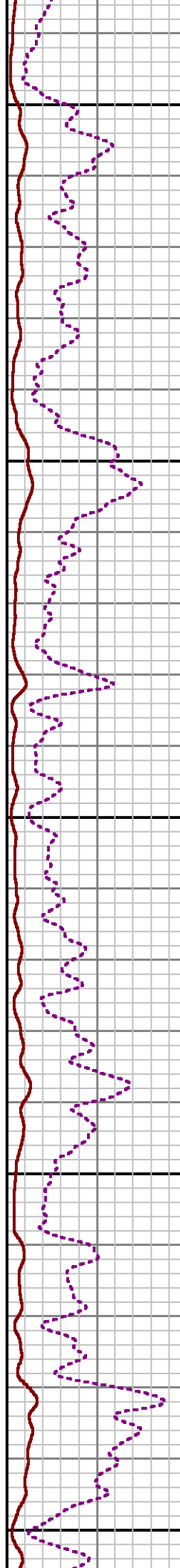
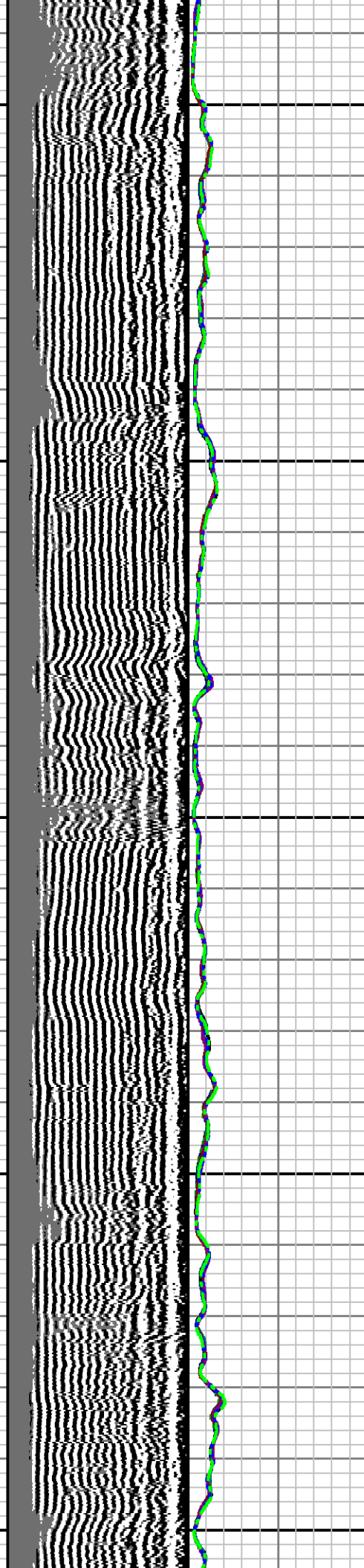
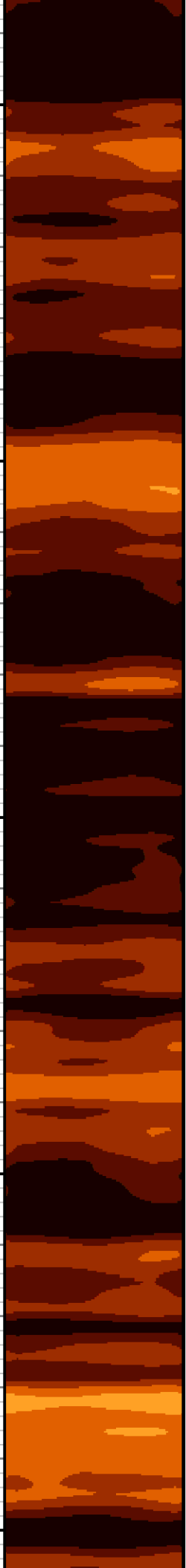




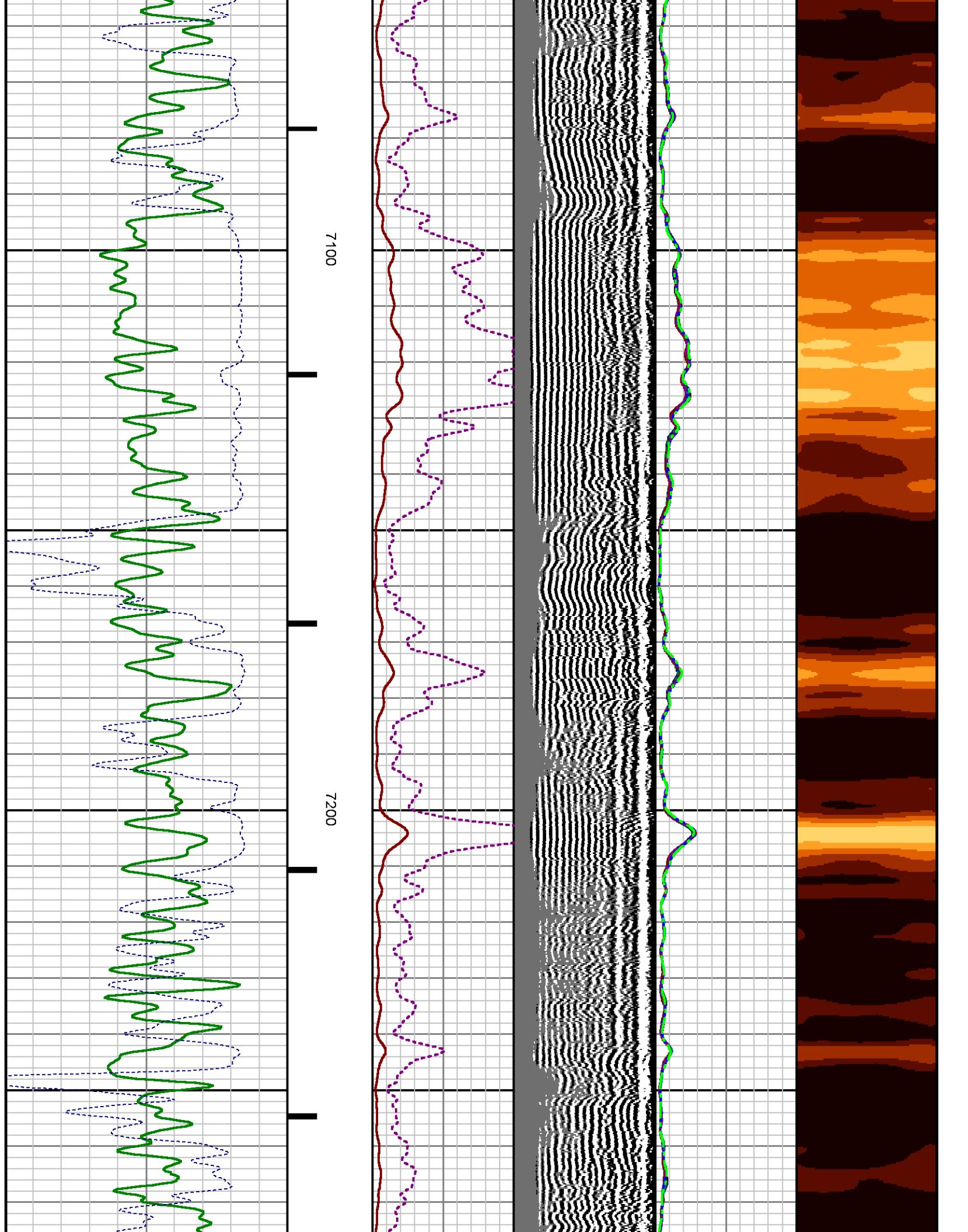


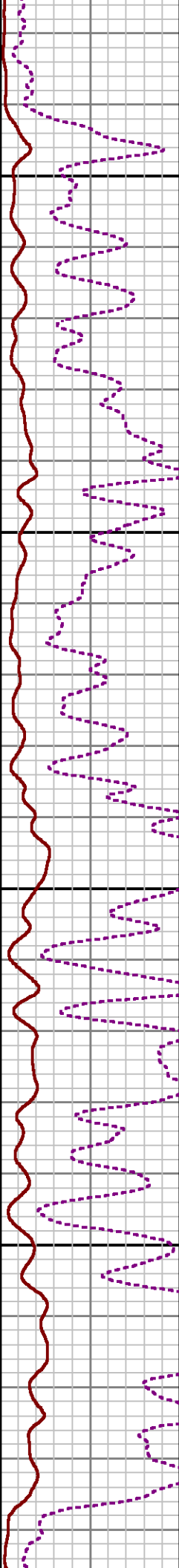
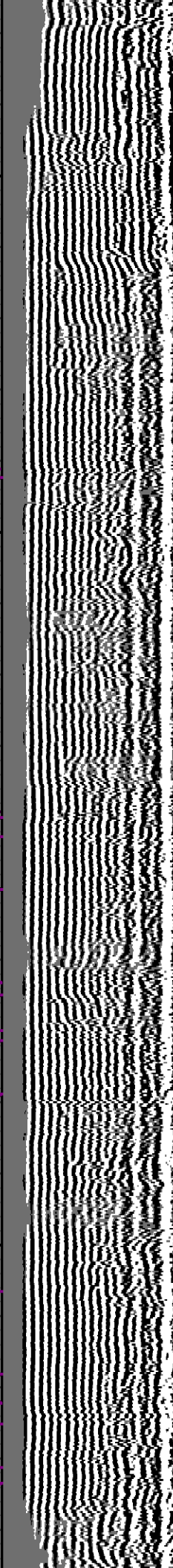
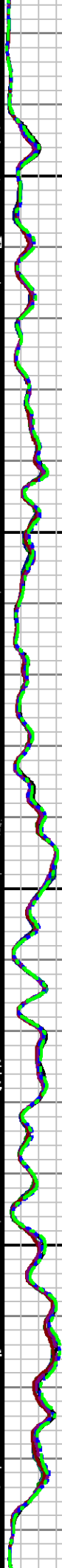
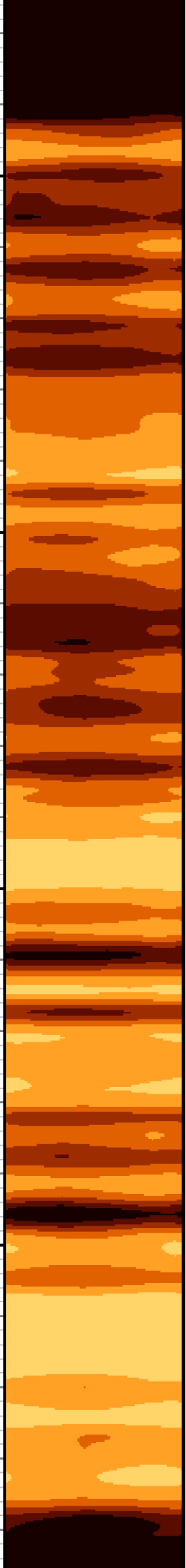






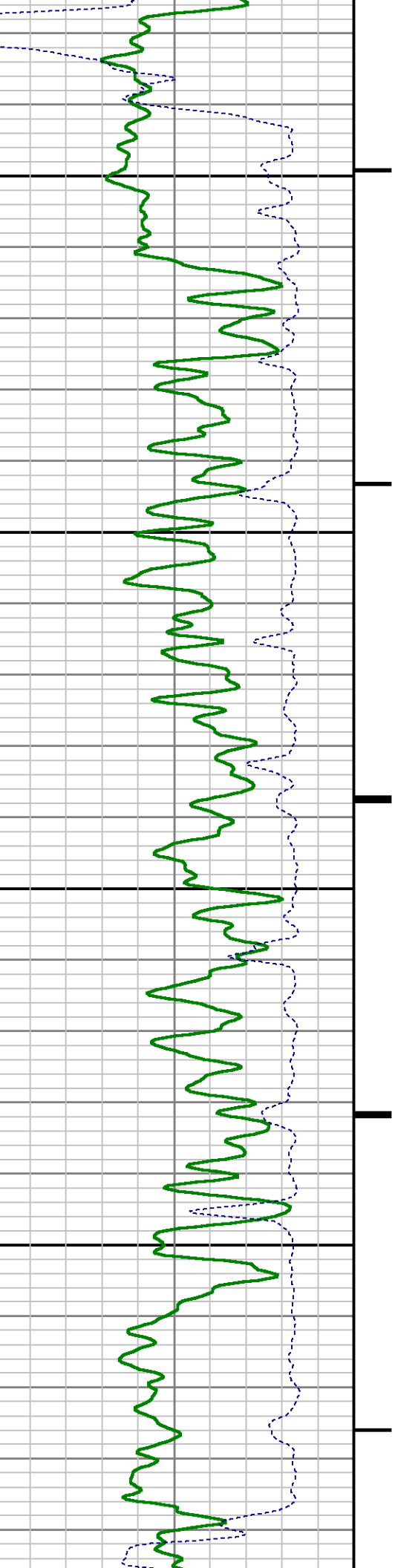


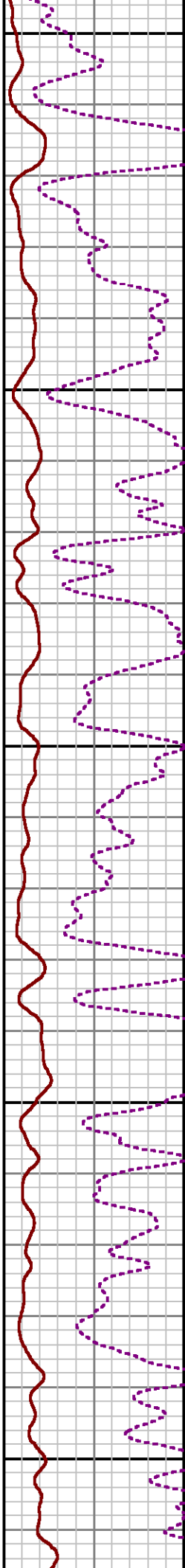
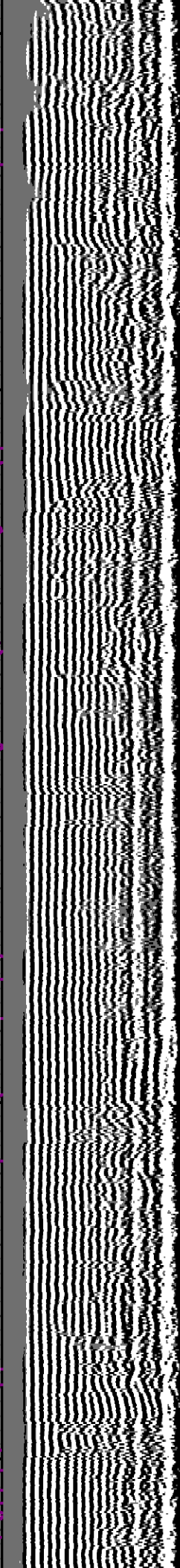
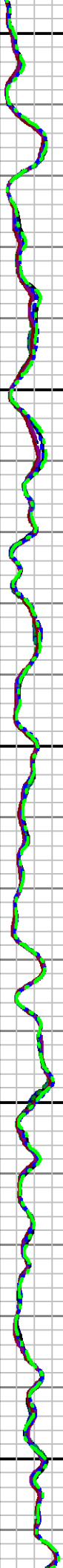
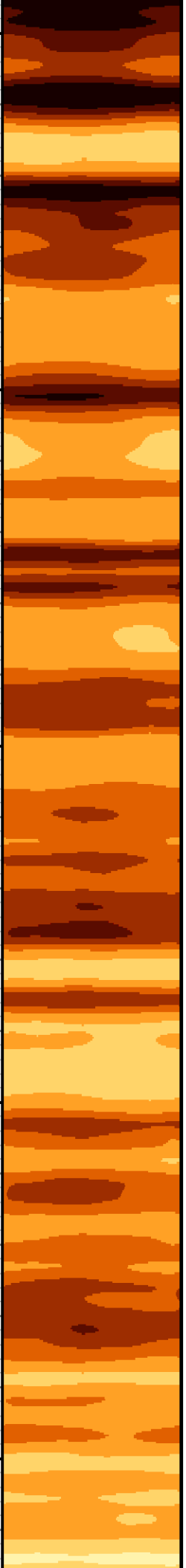




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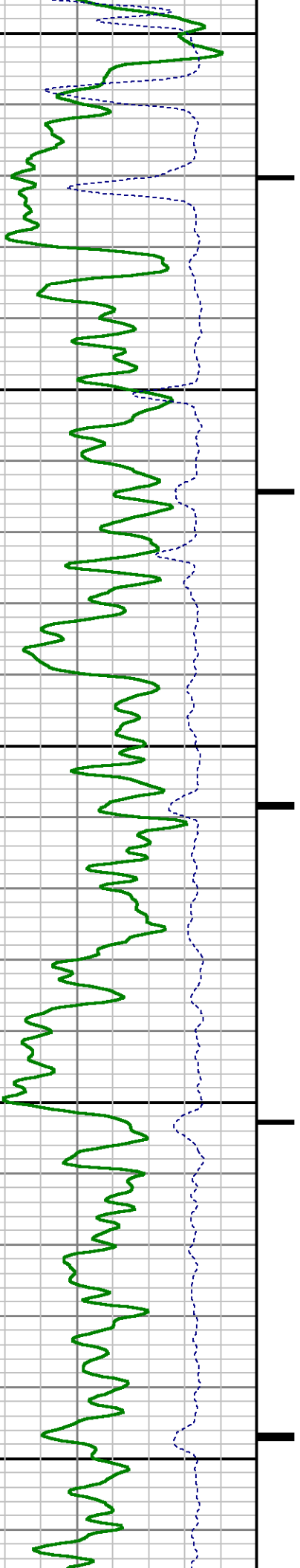


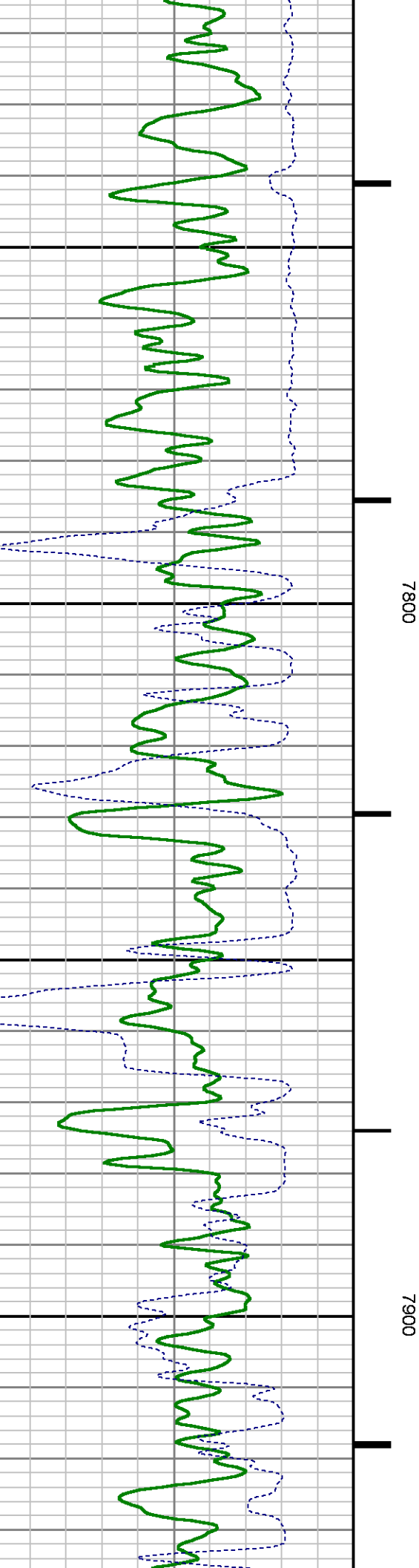
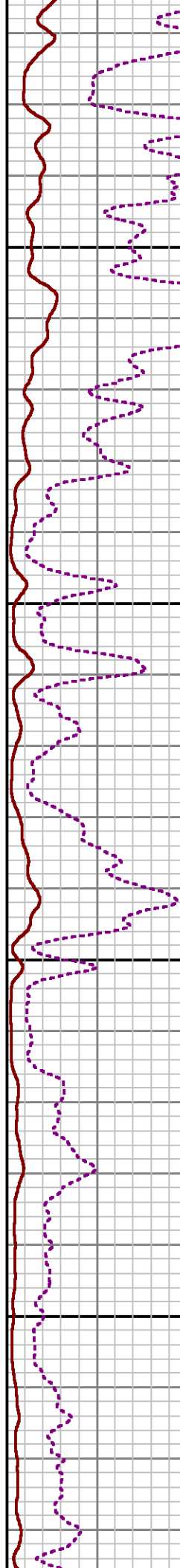
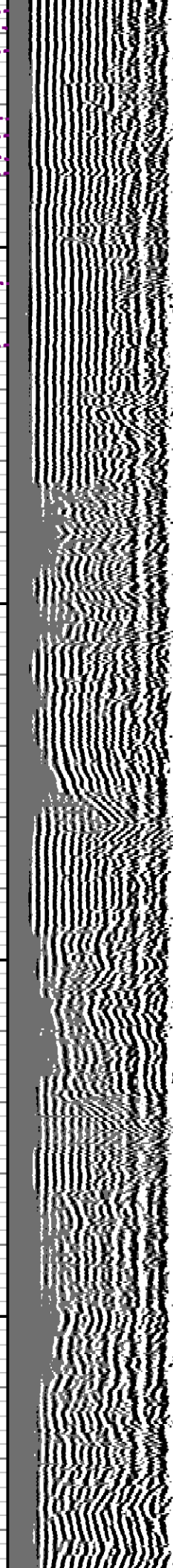
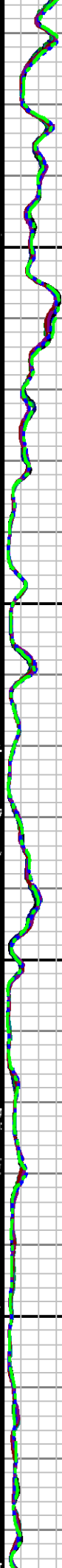
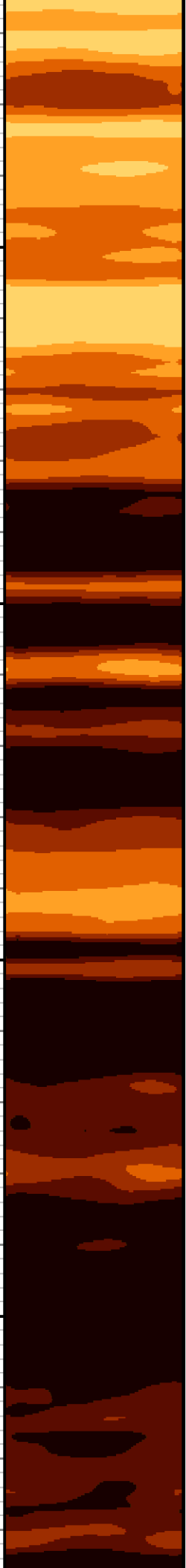


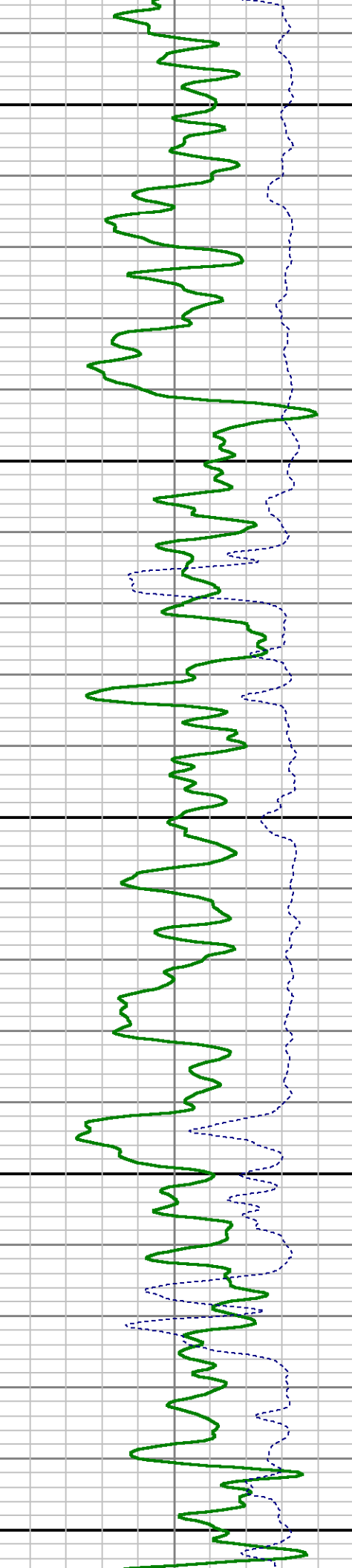
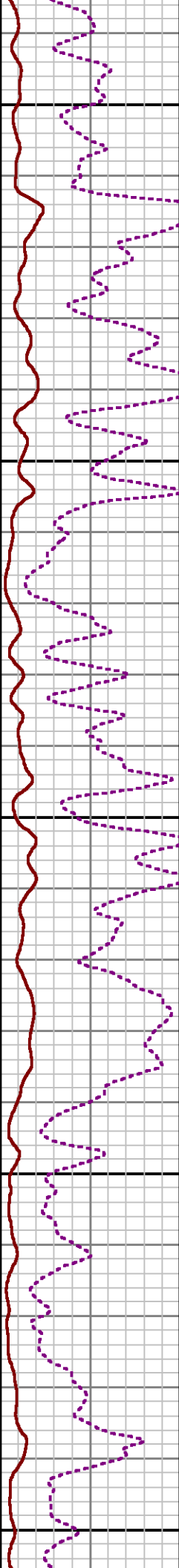
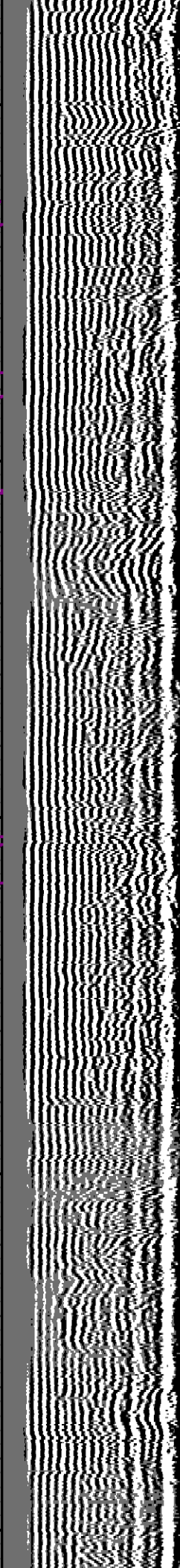
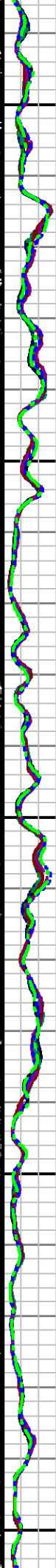
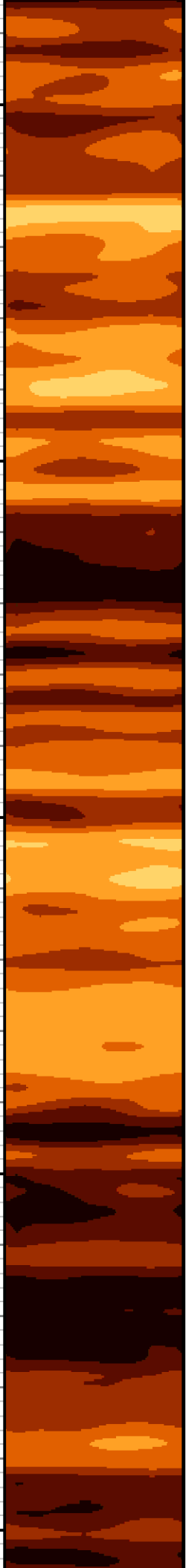
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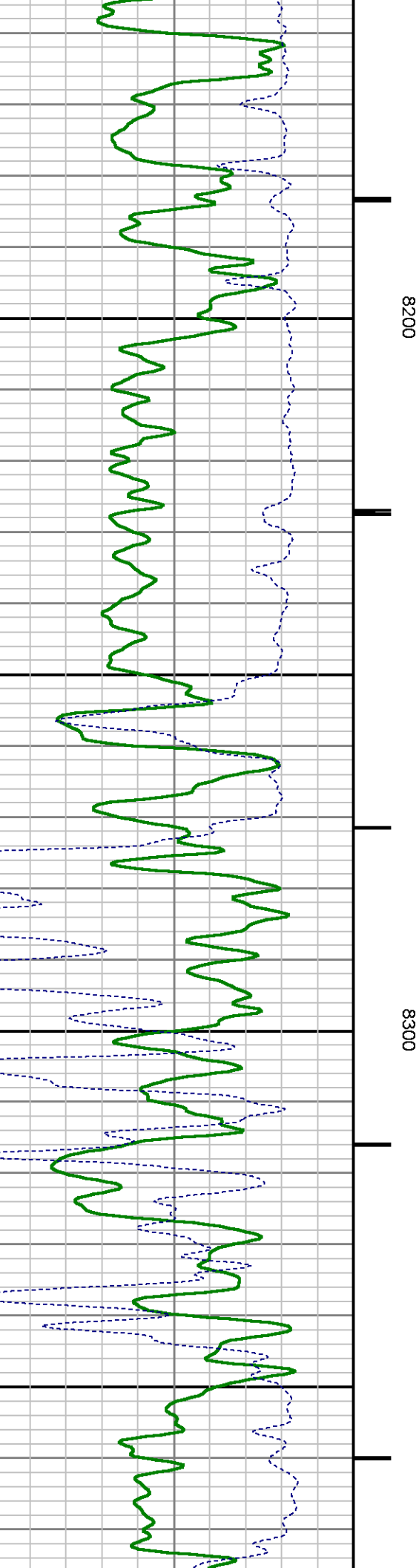
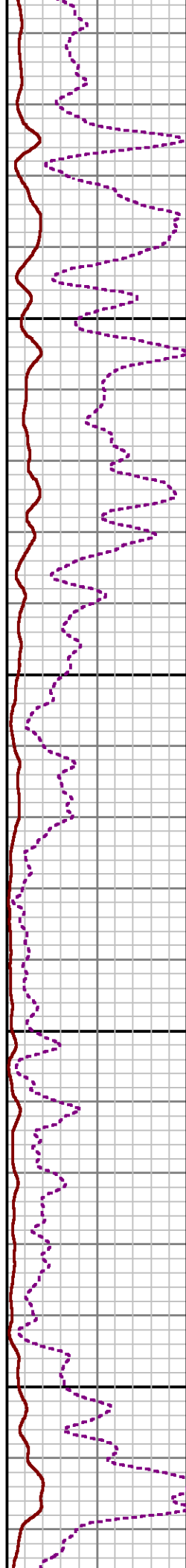
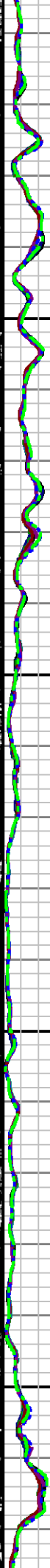
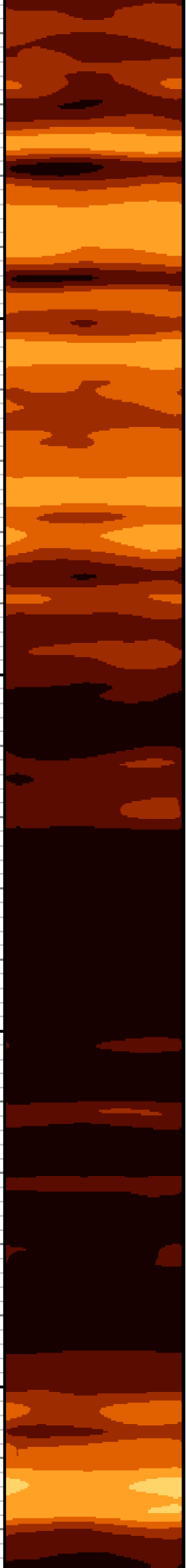
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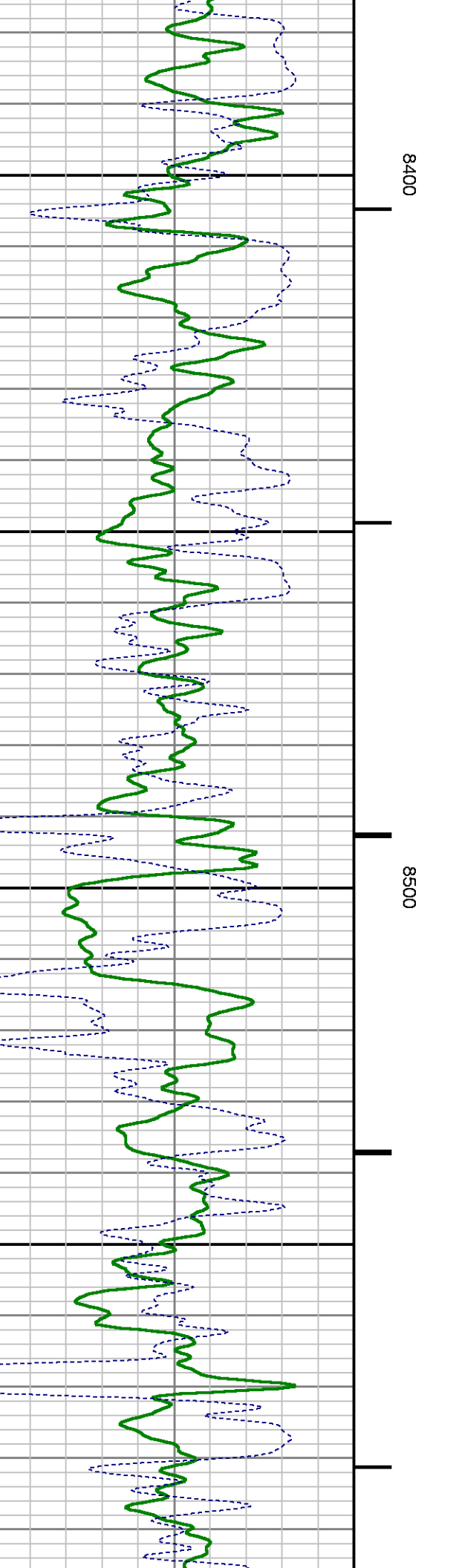
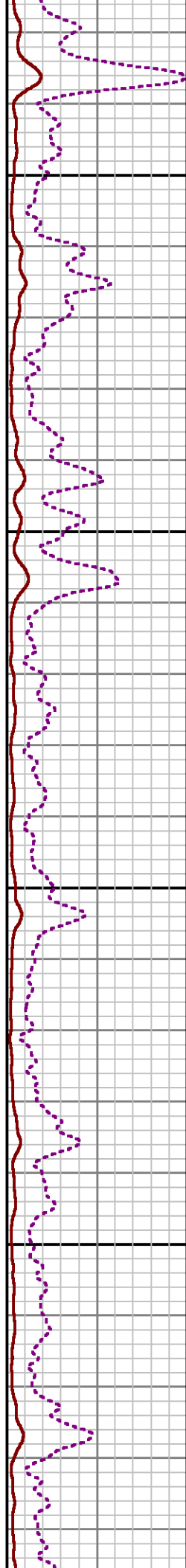
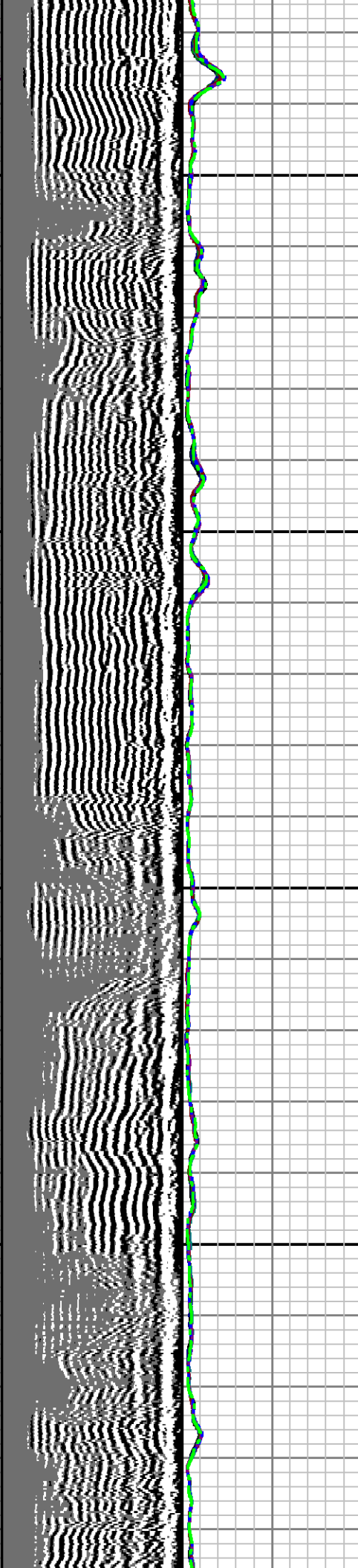
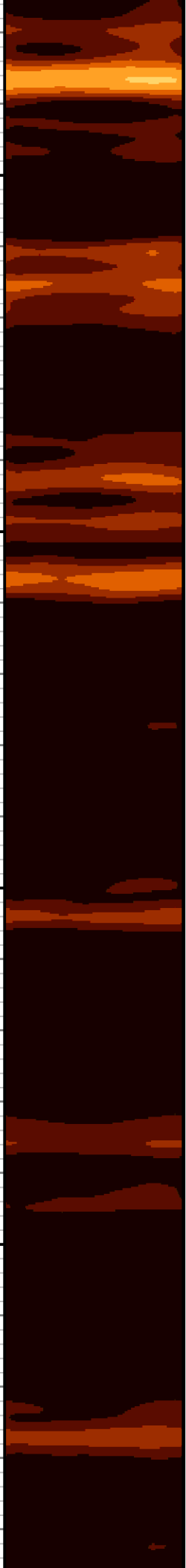


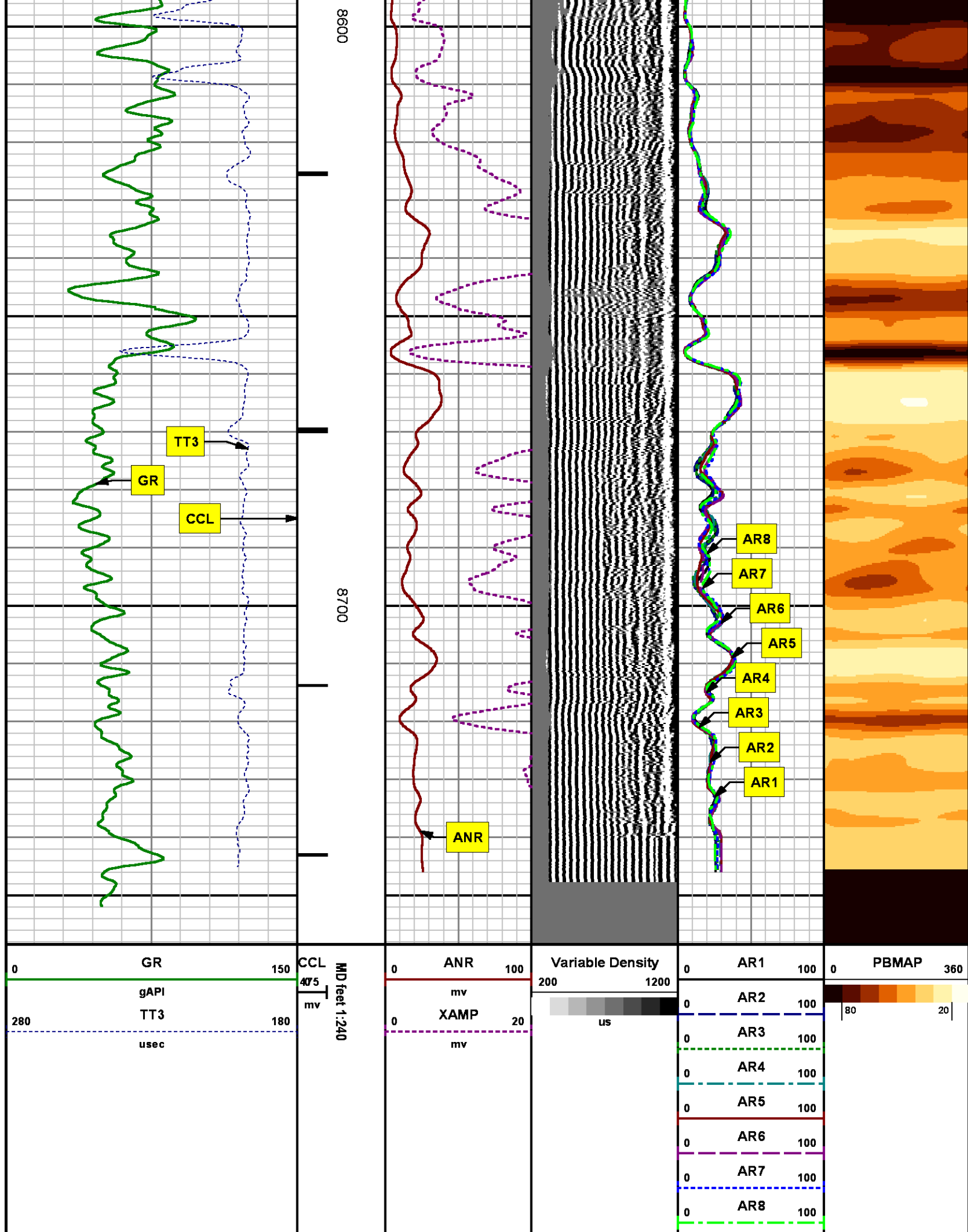












# REPEAT SECTION

## 0 PSI

| MEASUREMENT TYPE | PARAMETER             | VALUE   | UNITS   | TOP      | BOTTOM   |
|------------------|-----------------------|---------|---------|----------|----------|
| RAL              | Amp Gate Start Far    | 305.000 | usec    | 8426.950 | 8750.200 |
| RAL              | Amp Gate Start Near   | 195.000 | usec    | 8426.950 | 8750.200 |
| RAL              | Amp Gate Start Radial | 195.000 | usec    | 8426.950 | 8750.200 |
| RAL              | Amp Gate Width Far    | 25.000  | usec    | 8426.950 | 8750.200 |
| RAL              | Amp Gate Width Near   | 25.000  | usec    | 8426.950 | 8750.200 |
| RAL              | Amp Gate Width Radial | 25.000  | usec    | 8426.950 | 8750.200 |
| RAL              | casing od             | 4.500   | inches  | 8426.950 | 8750.200 |
| RAL              | casing wt             | 11.600  | lbm/ft  | 8426.950 | 8750.200 |
| RAL              | FB Start Far          | 291.900 | usec    | 8426.950 | 8750.200 |
| RAL              | FB Start Near         | 180.000 | usec    | 8426.950 | 8750.200 |
| RAL              | FB Start Radial       | 180.000 | usec    | 8426.950 | 8750.200 |
| RAL              | FB Thresh Far         | 15.000  | mv      | 8426.950 | 8750.200 |
| RAL              | FB Thresh Near        | 4.000   | mv      | 8426.950 | 8750.200 |
| RAL              | FB Thresh Radial      | 4.000   | mv      | 8426.950 | 8750.200 |
| RAL              | Fluid Travel Time     | 200.000 | usec/ft | 8426.950 | 8749.887 |

### DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES |      |      |      |      |      |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -12.360      | ACAL            | ANR  | AR1  | AR2  | AR3  | AR4  |
|        |              | AR5             | AR6  | AR7  | AR8  | CHV  | FPR2 |
|        |              | FPR3            | FPR5 | TT3  | TTR1 | TTR2 | TTR3 |
|        |              | TTR4            | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -11.360      | AFAR            | SIG  | TT5  |      |      |      |
| 2459XA | -7.250       | CCL             |      |      |      |      |      |
| 2459XA | -5.390       | GR              |      |      |      |      |      |
| 2459XA | 0.000        | NEU             |      |      |      |      |      |

Company : WPX ENERGY

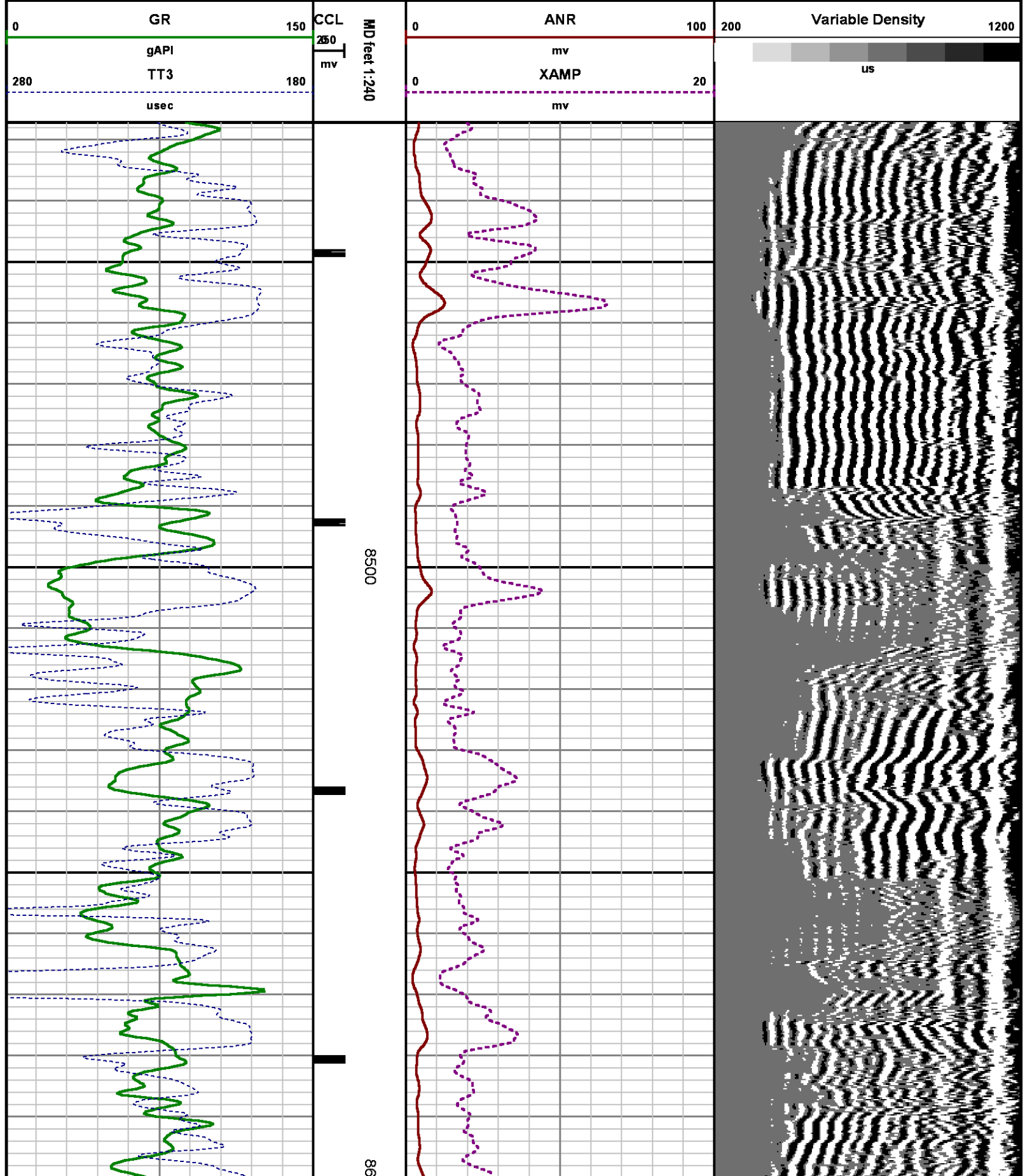
Well : SAVAGE RWF 34-25

File Name : D:\WELLDATA\WPX\RWF 34-25\34ra\REPEAT.XTF

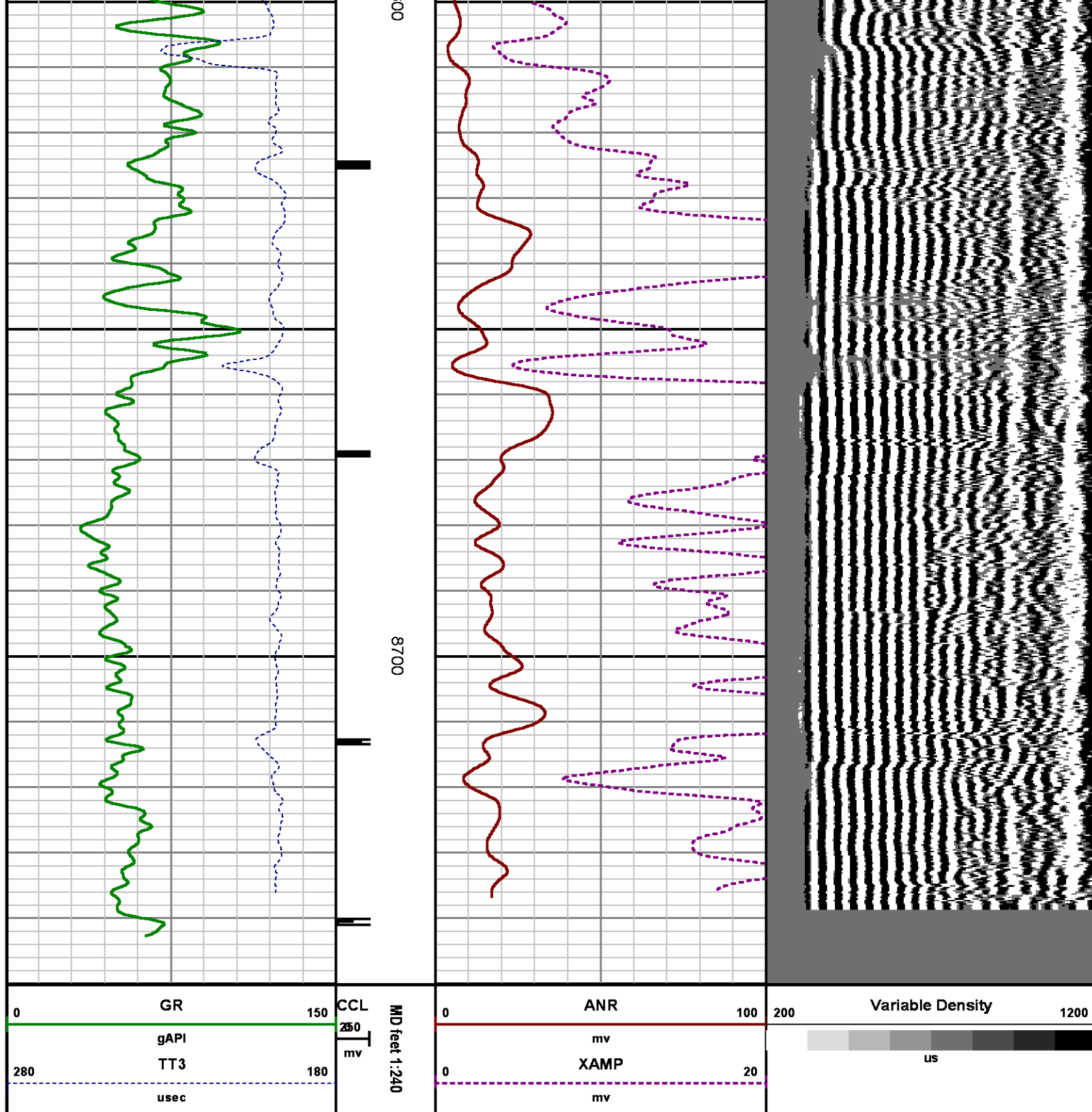
Mode : PlotMgr 5.4.504

Interval : 8427.20 - 8750.20 feet UP

Created : 10/13/2014 11:58:51 AM







## CALIBRATION SUMMARY

RAI SHP

Shop Calibration: C:\case\calver\RALSHPV49512\_shp.cal

## SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sun Oct 12 06:19:24 2014 TOOL SERIES: 1426XA ASSET: 495 SEQ: 12

|                      |        |               |      |                   |       |               |      |
|----------------------|--------|---------------|------|-------------------|-------|---------------|------|
| Tool Delay<br>[usec] | -52.00 | Tank OD<br>in | 5.50 | Tank Wt<br>lbm/ft | 15.50 | Tank ID<br>in | 4.95 |
|----------------------|--------|---------------|------|-------------------|-------|---------------|------|

| RECEIVER       | Travel Time<br>[usec] | Amp. Gate<br>Start<br>[usec] | Amp. Gate<br>Width<br>[usec] | Zero Gate<br>Start<br>[usec] | Zero Gate<br>Width<br>[usec] | Zero Amp.<br>[mV] | Amp Ref.<br>[mV] | Shop Factor |
|----------------|-----------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------|------------------|-------------|
| CAL Pulse      | 217                   | 216                          | 30                           | 166                          | 25                           | -0.441            | 100.00           | 0.26        |
| 3 Ft. Receiver | 217                   | 216                          | 30                           | 166                          | 15                           | -0.086            | 100.00           | 0.26        |
| 5 Ft. Receiver | 327                   | 325                          | 30                           | 257                          | 42                           | 4.275             | 150.00           | 0.29        |
| Radial #1      | 218                   | 216                          | 30                           | 166                          | 17                           | 0.856             | 100.00           | 0.26        |
| Radial #2      | 216                   | 216                          | 30                           | 166                          | 17                           | 0.475             | 100.00           | 0.26        |
| Radial #3      | 216                   | 216                          | 30                           | 166                          | 17                           | 0.682             | 100.00           | 0.26        |
| Radial #4      | 215                   | 216                          | 30                           | 166                          | 17                           | 0.481             | 100.00           | 0.26        |
| Radial #5      | 216                   | 216                          | 30                           | 166                          | 17                           | 0.518             | 100.00           | 0.26        |
| Radial #6      | 215                   | 216                          | 30                           | 166                          | 17                           | 0.236             | 100.00           | 0.26        |
| Radial #7      | 216                   | 216                          | 30                           | 166                          | 17                           | 0.336             | 100.00           | 0.26        |
| Radial #8      | 218                   | 216                          | 30                           | 166                          | 17                           | 0.694             | 100.00           | 0.26        |

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\49513\_fld.cal

## WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Mon Oct 13 02:44:41 2014 TOOL SERIES: 1426XA ASSET: 495 SEQ: 13

|                      |        |                 |      |                     |       |                 |      |
|----------------------|--------|-----------------|------|---------------------|-------|-----------------|------|
| Tool Delay<br>[usec] | -52.00 | Casing OD<br>in | 4.50 | Casing Wt<br>lbm/ft | 11.60 | Casing ID<br>in | 4.00 |
|----------------------|--------|-----------------|------|---------------------|-------|-----------------|------|

| RECEIVER       | Zero Gate<br>Start<br>[usec] | Zero Gate<br>Width<br>[usec] | Zero Amp.<br>[mV] | Full Amp.<br>[mV] | Wellsite Factor | Amp. Ref<br>[mV] |
|----------------|------------------------------|------------------------------|-------------------|-------------------|-----------------|------------------|
| CAL Pulse      | 166                          | 25                           | -0.024            | 0.000             | 0.99            | 100.000          |
| 3 Ft. Receiver | 195                          | 25                           | 0.982             |                   |                 |                  |
| 5 Ft. Receiver | 305                          | 25                           | 2.803             |                   |                 |                  |
| Radial #1      | 195                          | 25                           | 0.610             |                   |                 |                  |
| Radial #2      | 195                          | 25                           | 0.695             |                   |                 |                  |
| Radial #3      | 195                          | 25                           | 0.597             |                   |                 |                  |
| Radial #4      | 195                          | 25                           | 0.283             |                   |                 |                  |
| Radial #5      | 195                          | 25                           | 0.474             |                   |                 |                  |
| Radial #6      | 195                          | 25                           | 0.600             |                   |                 |                  |
| Radial #7      | 195                          | 25                           | 0.662             |                   |                 |                  |
| Radial #8      | 195                          | 25                           | 0.568             |                   |                 |                  |

# GAMMA RAY

Calibration File: C:\case\calver\GR\503O8.cal

## CALIBRATION SUMMARY

DATE/TIME PERFORMED: Wed Oct 08 09:03:02 2014      TOOL SERIES: 2459XA      ASSET: 503      SEQ: 08

| Calibrator # | Background<br>[cps] | Calibrator On<br>[cps] | Multiplicative | Background<br>[api] | Calibrator On<br>[api] | Differential<br>[api] |
|--------------|---------------------|------------------------|----------------|---------------------|------------------------|-----------------------|
| S2K    WA612 | 110.22              | 393.29                 | 0.654          | 72.04               | 257.04                 | 185.00                |

Verification File: C:\case\calver\GR\503O8.VP

## PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Wed Oct 08 09:04:12 2014      TOOL SERIES: 2459XA      ASSET: 503      SEQ: 08

| Calibrator # | Background<br>[cps] | Calibrator On<br>[cps] | Multiplicative | Background<br>[api] | Calibrator On<br>[api] | Differential<br>[api] |
|--------------|---------------------|------------------------|----------------|---------------------|------------------------|-----------------------|
| S2K    WA612 | 101.07              | 384.62                 | 0.654          | 66.05               | 251.37                 | 185.32                |

# TOOL DIAGRAM

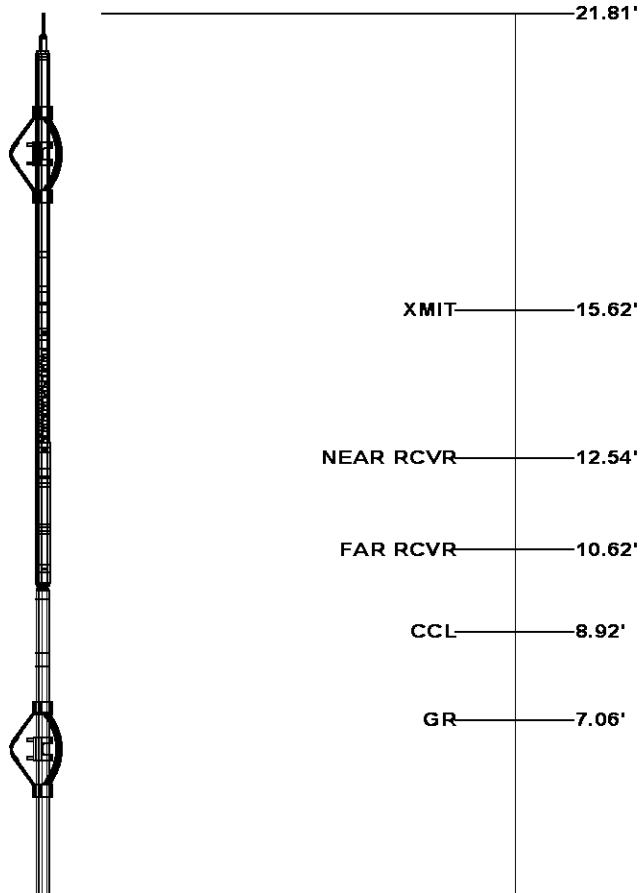
### OTA SHORT CABLE HEAD

### PROBE 2 3/4 DUAL RECEIVER RADII

|               |                 |
|---------------|-----------------|
| Series        | 1426XA          |
| Mnemonic      | PROB            |
| Diameter      | 2.75"           |
| Length        | 11.17'          |
| Measure Point | 0.75' FAR RCVR  |
| Measure Point | 2.67' NEAR RCVR |
| Measure Point | 5.75' XMIT      |
| Temp Rating   | 350.00 °F       |
| Press Rating  | 18000.00 PSI    |

### Probe GR/CCL/NEU

|               |           |
|---------------|-----------|
| Series        | 2459XA    |
| Mnemonic      | PROB      |
| Diameter      | 2.75"     |
| Length        | 9.42'     |
| Measure Point | 1.21' NEU |
| Measure Point | 6.60' GR  |
| Measure Point | 8.46' CCL |



NEU 1.67'

0.00'

Total Length: 21.81'  
Total Weight: Not Available  
Max Diameter: 0' 2.75"



Baker Atlas

CASE

Company

WPX ENERGY

Well

SAVAGE RWF 34-25

Field

RULISON

County

GARFIELD

State

COLORADO

File No:

CH091512

API No:

05045219950000

Location

SHL: 1124' FSL x 1391' FEL

BHL: 918' FSL x 2196' FEL (SWSE)

Elevations

KB 6260 ft

DF

GL 6234 ft

25 6S 94W

RWF 43-23

NABORS 577

SEC 25 TWP 6 S RGE 94W