



RADIAL CEMENT BOND  
GAMMA RAY  
CCL

|         |                                |
|---------|--------------------------------|
| Company | BILL BARRETT CORP              |
| Well    | KUNSMILLER NW21 5-61-20-0801B2 |
| Field   | WATTENBERG                     |
| County  | WELD                           |
| State   | COLORADO                       |

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|                                  |                     |                |
|----------------------------------|---------------------|----------------|
| Location:                        | API #: 05-123-44298 | Other Services |
| SHL: 1021' FNL 300' FWL<br>NE/NW |                     |                |
| SEC 21 TWP 5N RGE 61W            |                     |                |
| Permanent Datum                  | GL                  | Elevation      |
| Log Measured From                | KB 16.5'            | K.B. 4621'     |
| Drilling Measured From           | KB                  | D.F. 4620'     |
|                                  |                     | G.L. 4637      |

|      |           |
|------|-----------|
| Date | 8-19-2017 |
|------|-----------|

|               |  |
|---------------|--|
| Depth Driller |  |
|---------------|--|

|                        |       |
|------------------------|-------|
| Bottom Logged Interval | 5762' |
|------------------------|-------|

| Open Hole Size   | NA      |
|------------------|---------|
| Top Log Interval | 30KFACE |

| Type Fluid | WATER |
|------------|-------|
|------------|-------|

|                     |    |
|---------------------|----|
| Max. Recorded Temp. | NA |
|---------------------|----|

|                 |    |
|-----------------|----|
| Time Well Ready | NA |
|-----------------|----|

|                  |       |
|------------------|-------|
| Equipment Number | W-142 |
|------------------|-------|

|             |          |
|-------------|----------|
| Recorded By | A STEEBM |
| Location    | WINDSOR, |

Witnessed By R. BEHREN

| Run Number | Bit | From | To |
|------------|-----|------|----|
|------------|-----|------|----|

[illegible][illegible]

| Surface String |  |  |
|----------------|--|--|
|                |  |  |


|                   |  |  |
|-------------------|--|--|
| Production String |  |  |
|-------------------|--|--|


[illegible]

Comments

RAN CEMENT BOND LOG TO VERIFY CEMENT  
CORRELATED TO LINER TOP @ 5608'  
SHIFTED UP HOLE 37'

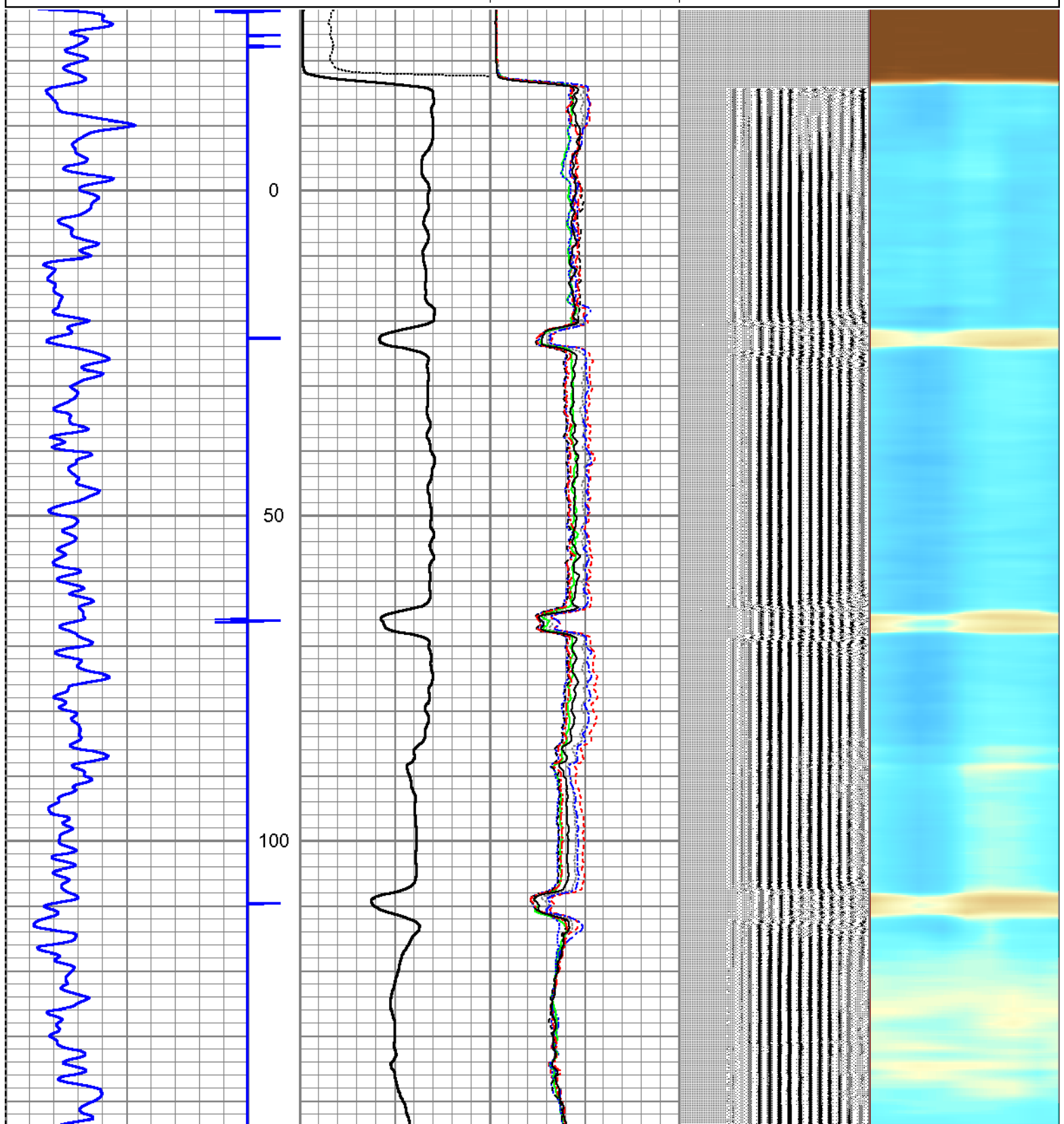
THANK YOU FOR USING CUTTERS WIRELINE!

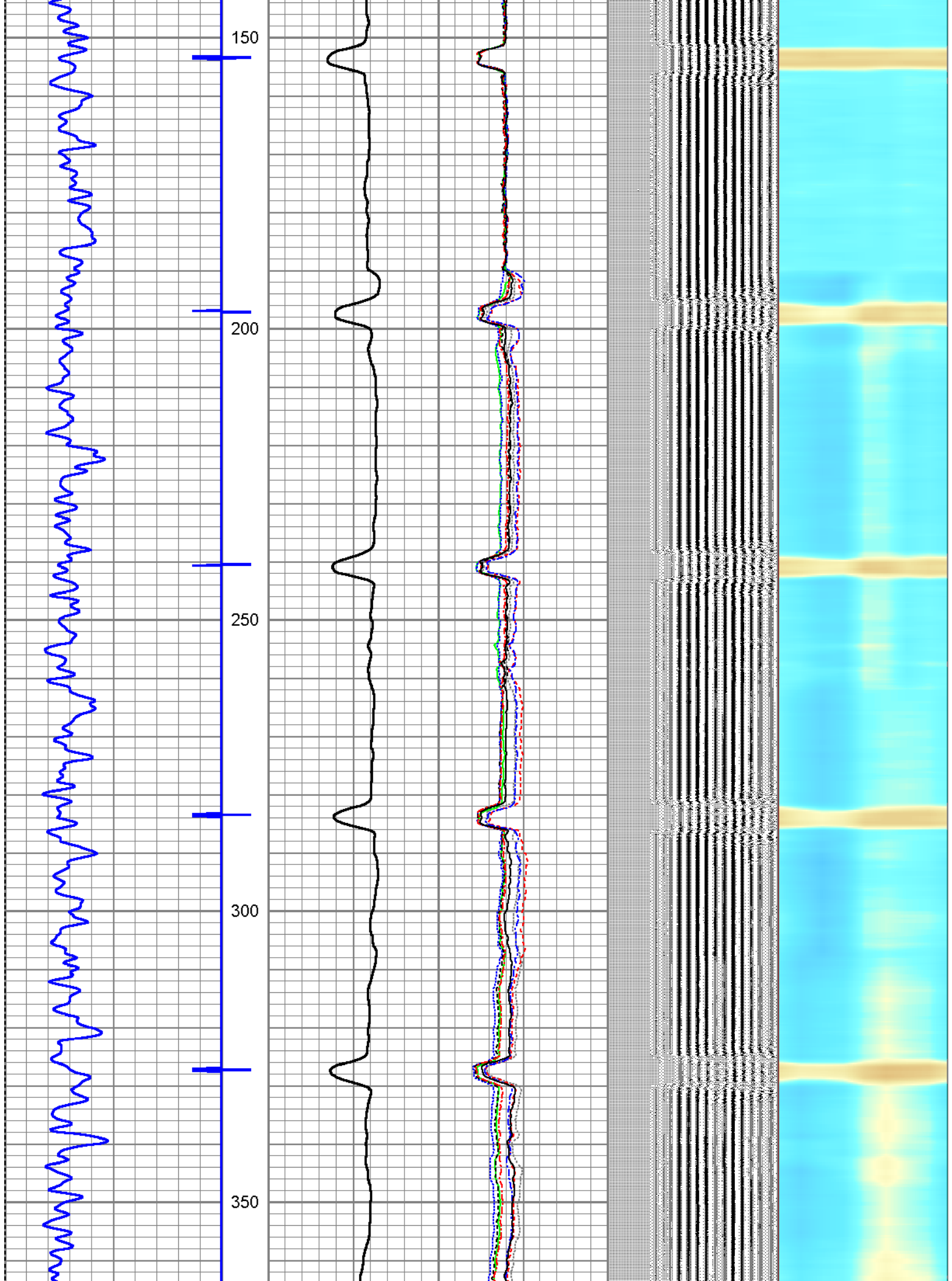
| Sensor | Offset (ft) | Schematic                                                                           | Description                          | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-------------------------------------------------------------------------------------|--------------------------------------|----------|---------|---------|
|        |             |  | 1.4375CHD<br>Titan Cable Head 1 7/16 | 1.00     | 1.44    | 10.00   |

|                                                                                                                                         |       |                                                                                  |                                                                           |      |      |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------|------|-------|
| WVF3FT                                                                                                                                  | 11.17 |  | <b>RBT-Probe (Pro101111)</b><br>Probe 2.75" Radii Bond Tool               | 7.00 | 2.75 | 90.00 |
| WVFCAL                                                                                                                                  | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS1                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS2                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS3                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS4                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS5                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS6                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS7                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVFS8                                                                                                                                   | 11.17 |                                                                                  |                                                                           |      |      |       |
| WVF5FT                                                                                                                                  | 10.17 |                                                                                  |                                                                           |      |      |       |
| CCL                                                                                                                                     | 6.02  |                                                                                  | <b>GR-Probe275 (275_080526)</b><br>Probe Gamma Ray CCL Analog Bottom Det. | 4.58 | 2.75 | 57.00 |
| GR                                                                                                                                      | 3.23  |                                                                                  |                                                                           |      |      |       |
|                                                                                                                                         |       |                                                                                  | <b>TEMP-1.375TEMP (0001)</b><br>Temperature Tool                          | 2.40 | 1.38 | 30.00 |
| TEMP                                                                                                                                    | 0.17  |                                                                                  |                                                                           |      |      |       |
| Dataset: kunsmiller nw21 5-61-20-0801b2.db: field/well/run1/pass10<br>Total Length: 14.98 ft<br>Total Weight: 187.00 lb<br>O.D. 2.75 in |       |                                                                                  |                                                                           |      |      |       |

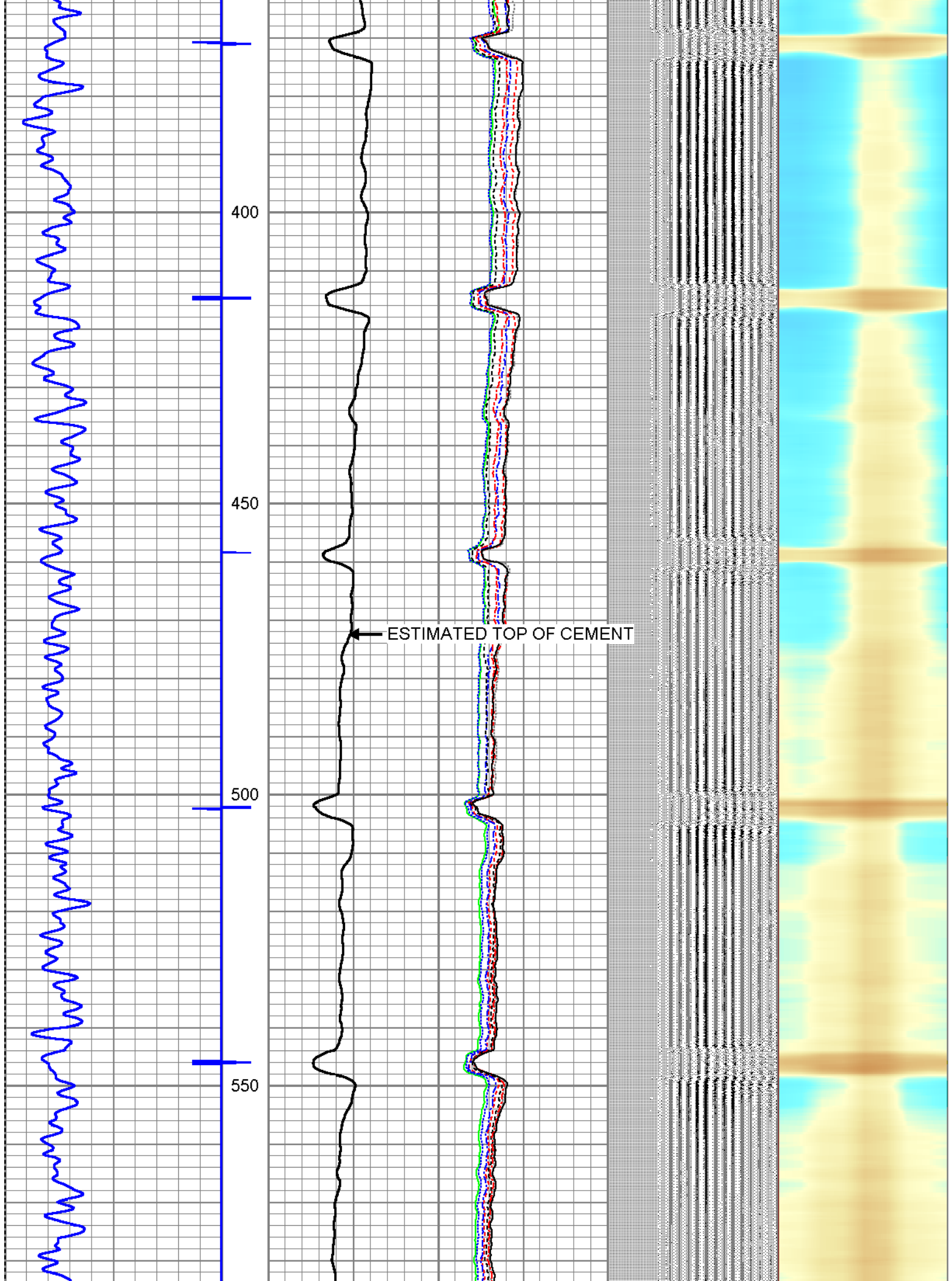
Database File: kunsmiller nw21 5-61-20-0801b2.db  
 Dataset Pathname: pass10  
 Presentation Format: rbl55  
 Dataset Creation: Sat Aug 19 12:15:16 2017 by Log Std Casedhole 09061

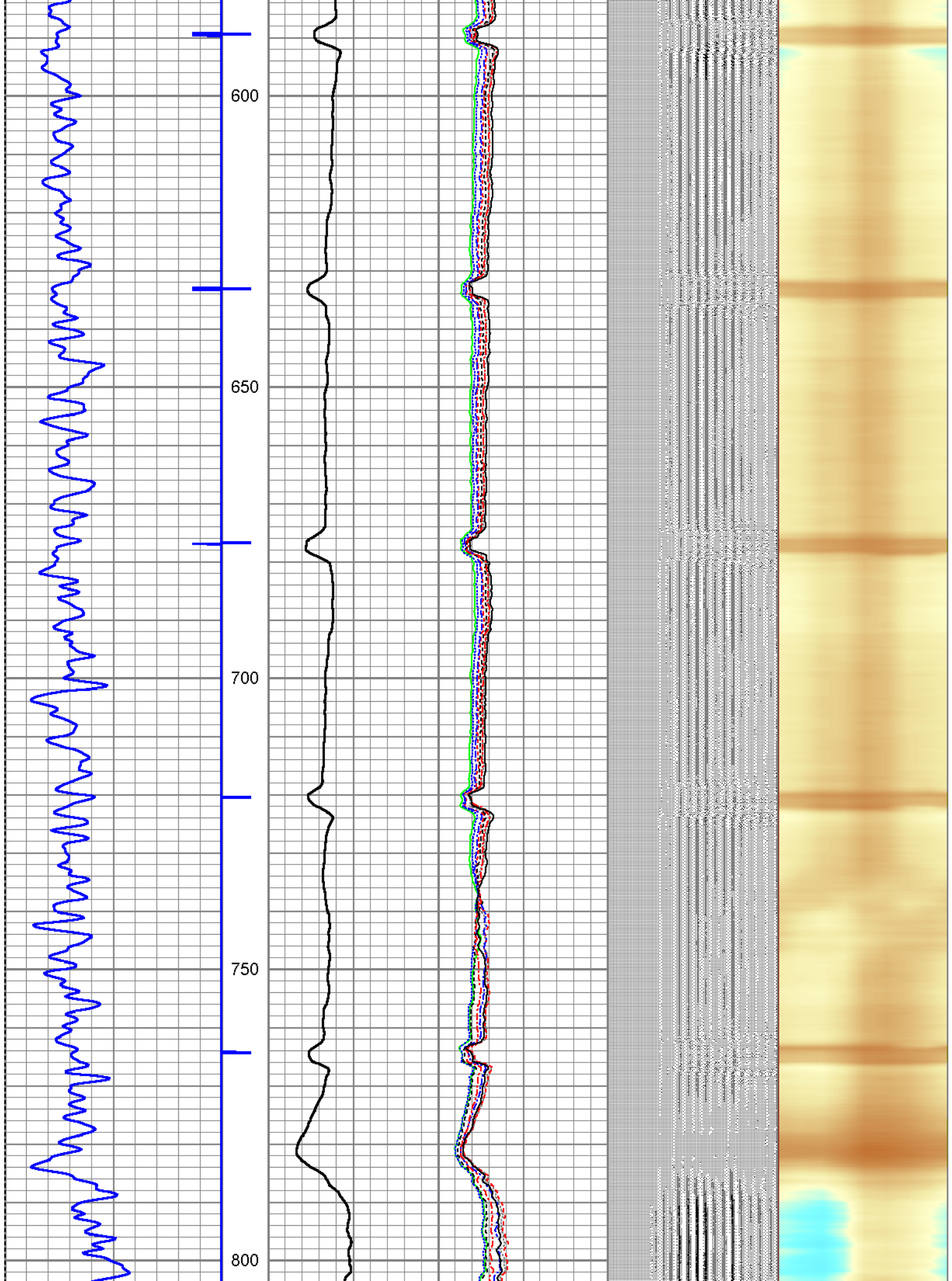
|     |           |      |                     |     |       |       |     |     |      |            |    |
|-----|-----------|------|---------------------|-----|-------|-------|-----|-----|------|------------|----|
| 343 | TT (usec) | 243  | Amplitude           | -5  | AMPS2 | 150   | 200 | VDL | 1200 | Cement Map |    |
| 0   | GR (GAPI) | 150  | (mV)                | 100 | -5    | AMPS3 | 150 |     |      | 1          | 80 |
| 0   | LTEN (lb) | 4000 | Amplified Amplitude | -5  | AMPS4 | 150   |     |     |      |            |    |
|     |           |      | (mV)                | 10  | -5    | AMPS5 | 150 |     |      |            |    |
|     |           |      |                     |     | -5    | AMPS6 | 150 |     |      |            |    |
|     |           |      |                     |     | -5    | AMPS7 | 150 |     |      |            |    |
|     |           |      |                     |     | -5    | AMPS8 | 150 |     |      |            |    |
|     |           |      |                     |     | -5    | AMPS1 | 150 |     |      |            |    |
|     |           |      |                     |     |       |       |     |     |      |            |    |



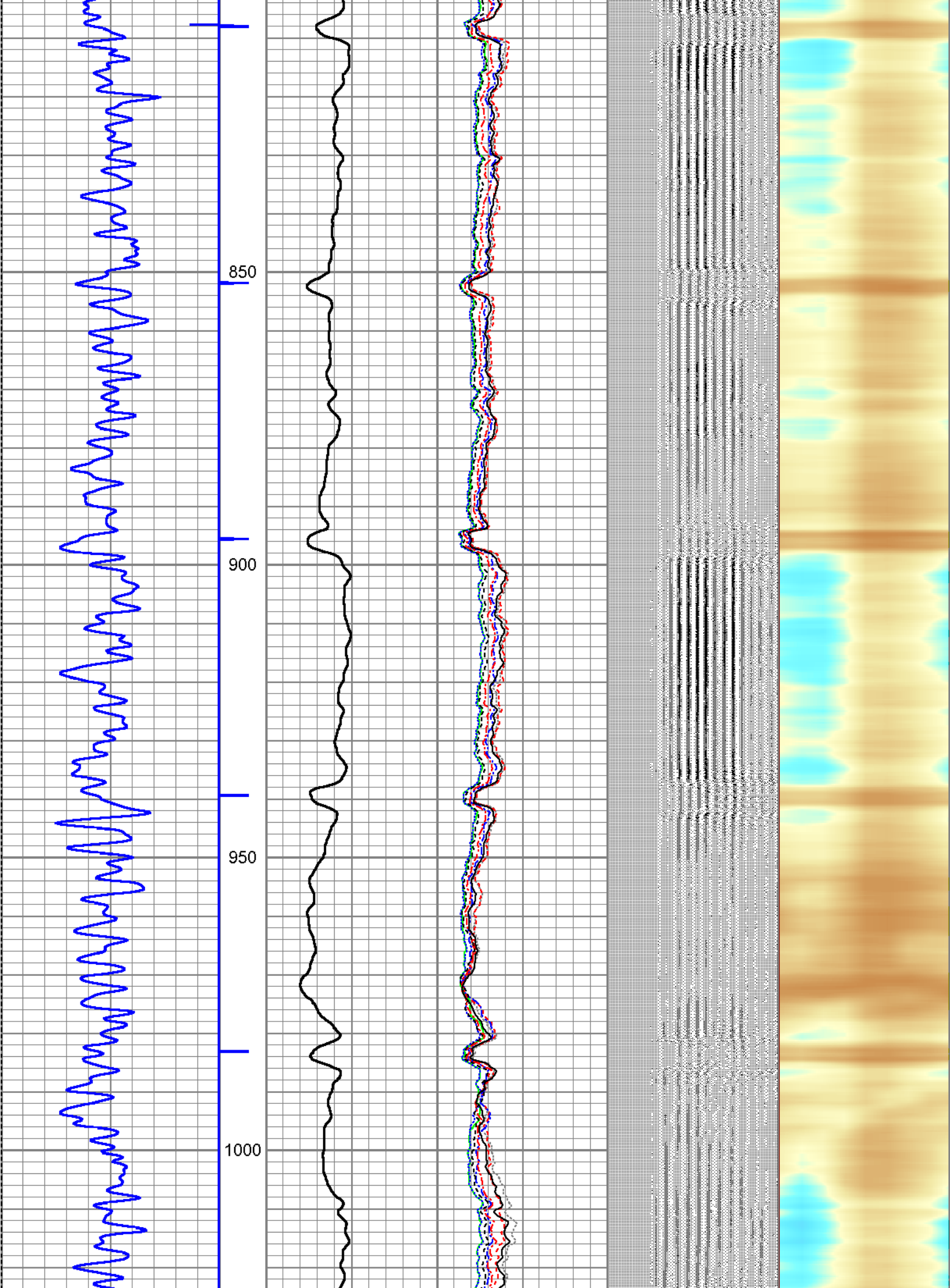


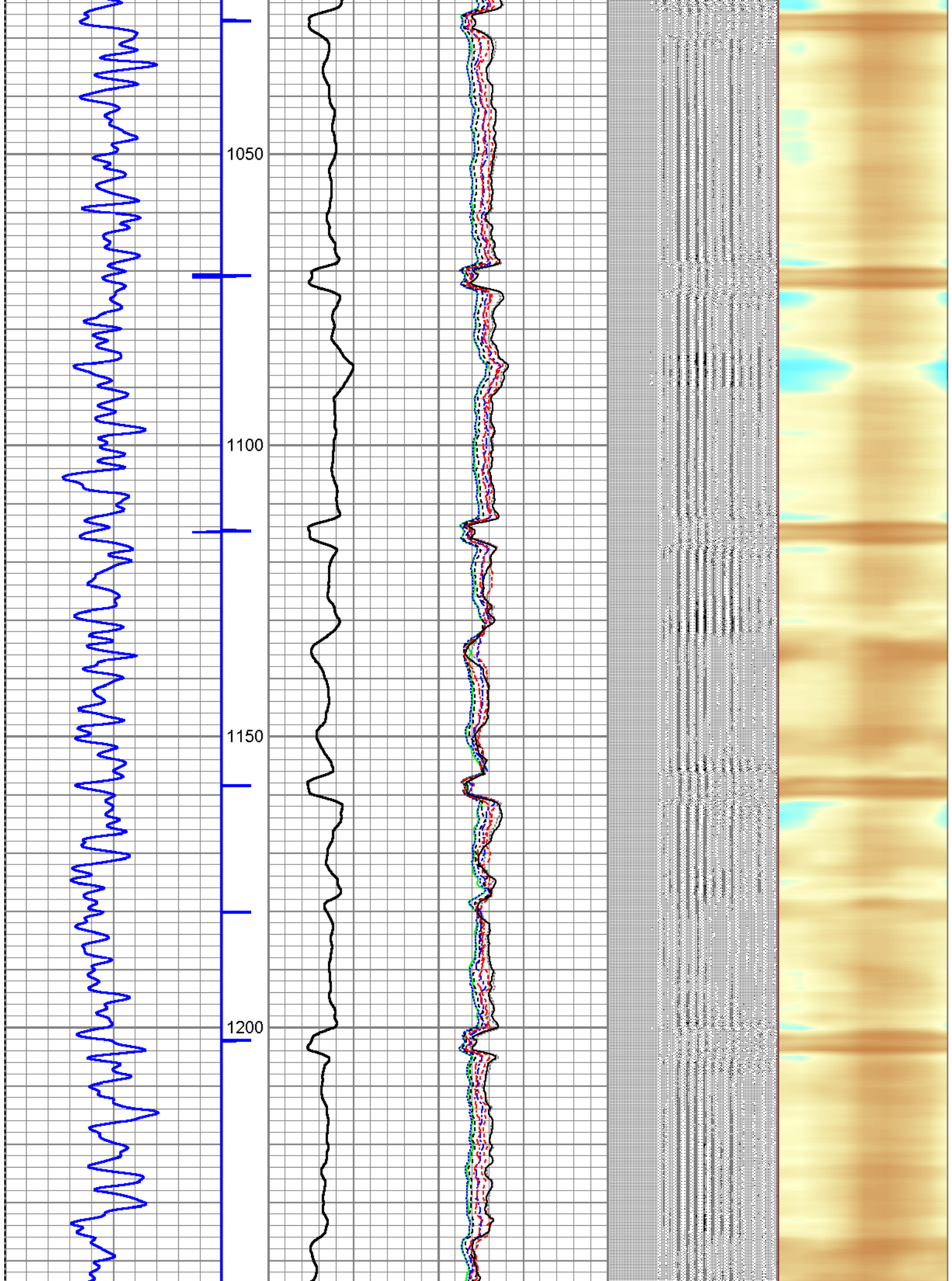




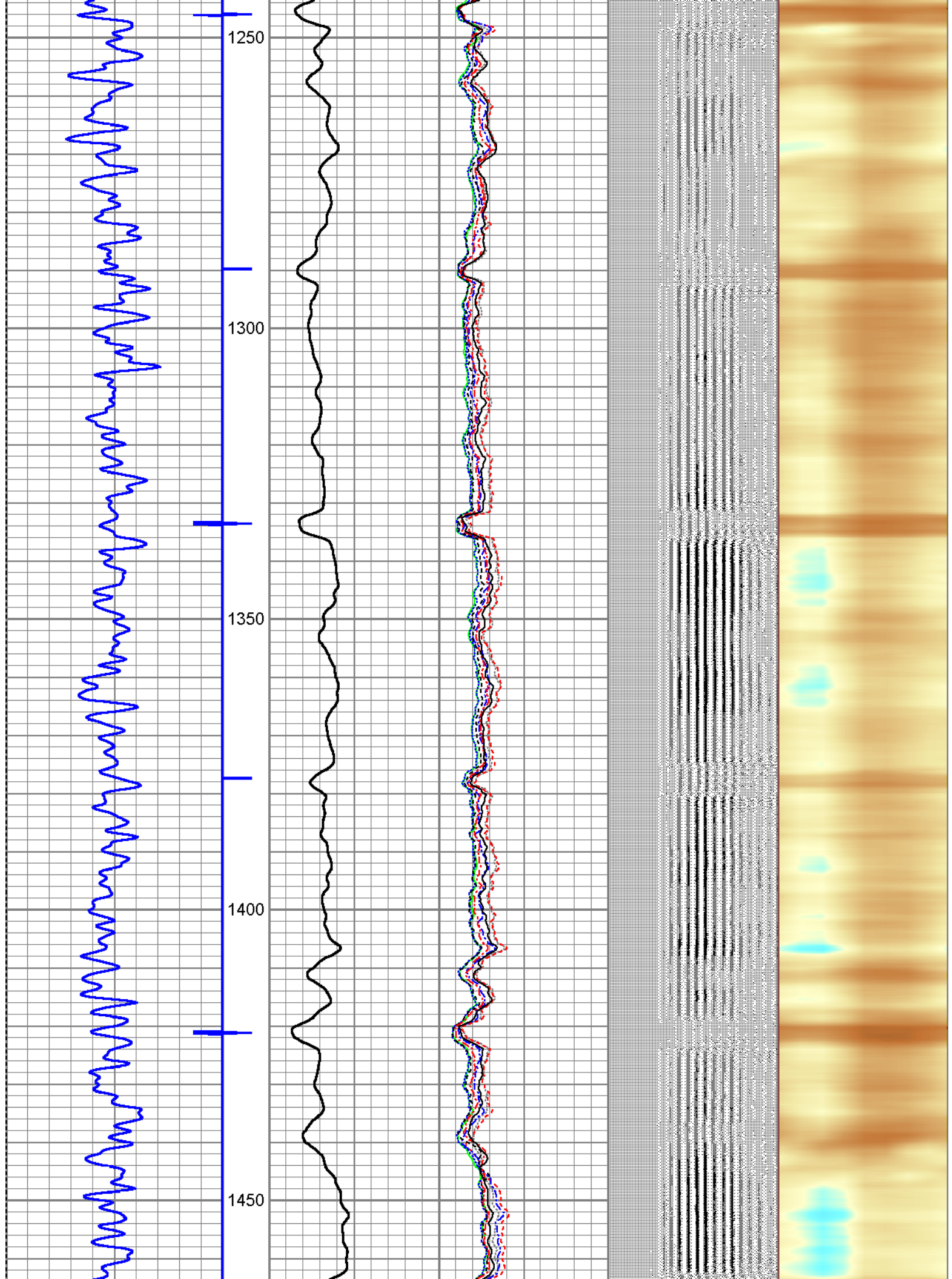


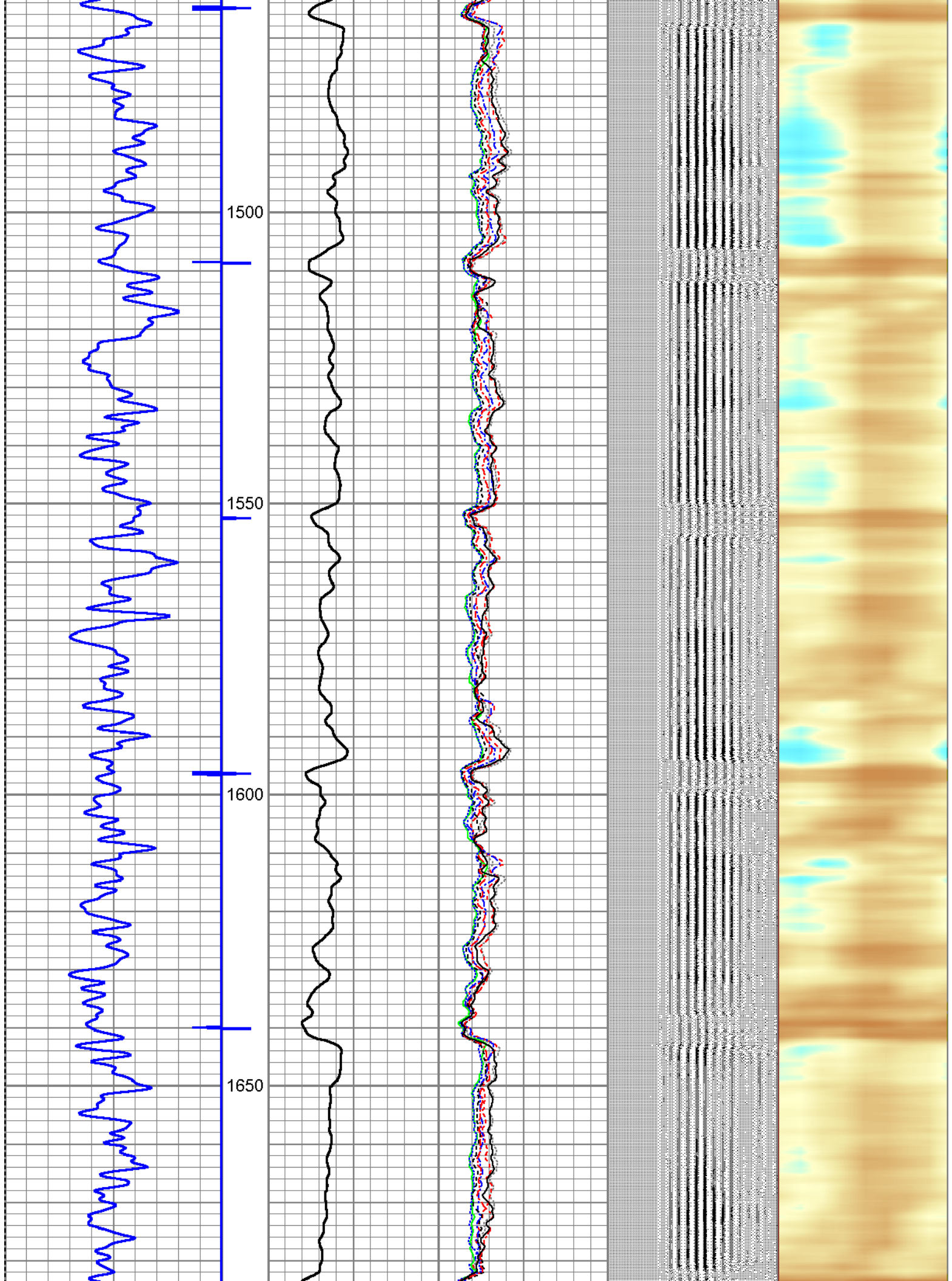




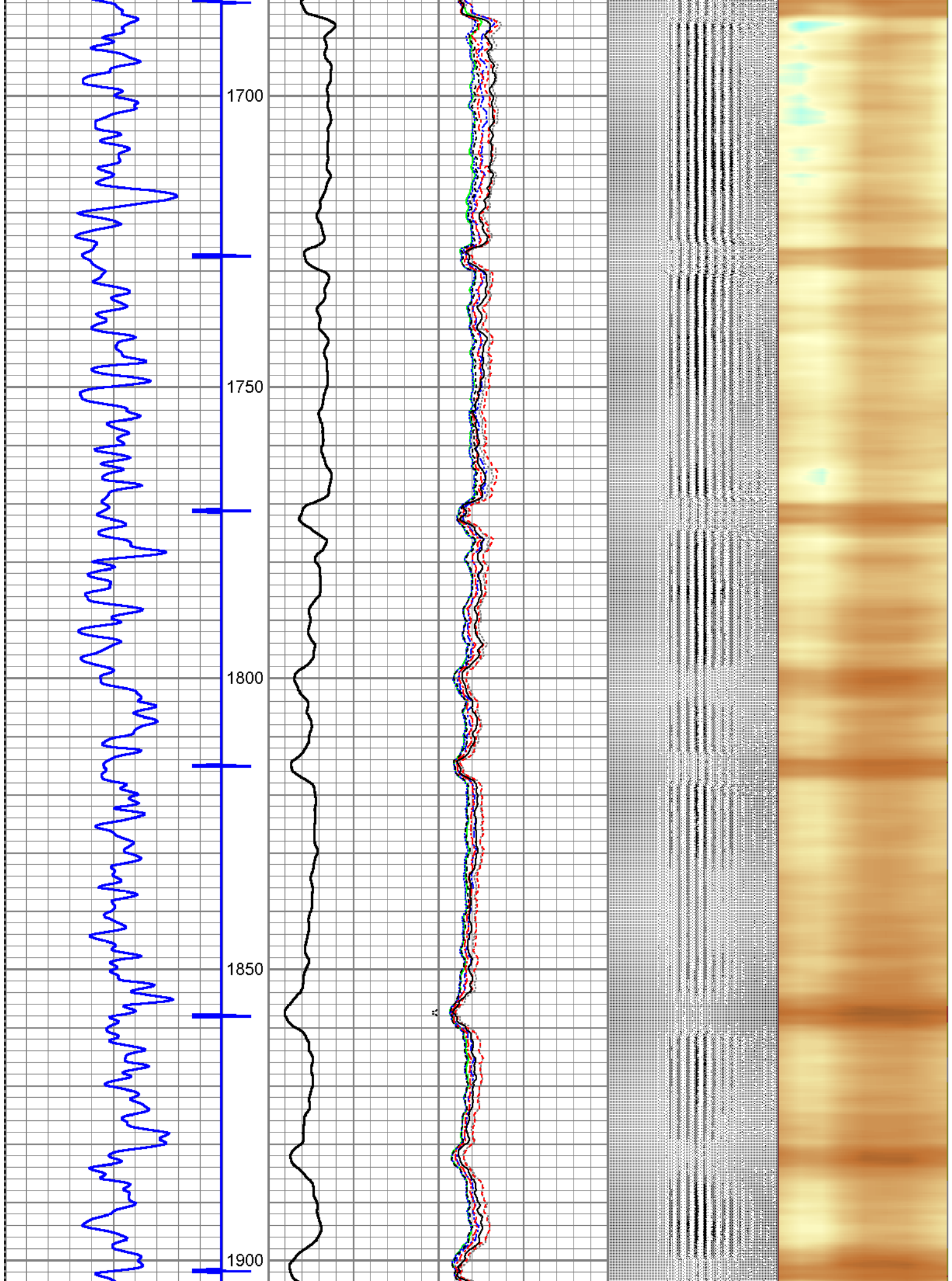


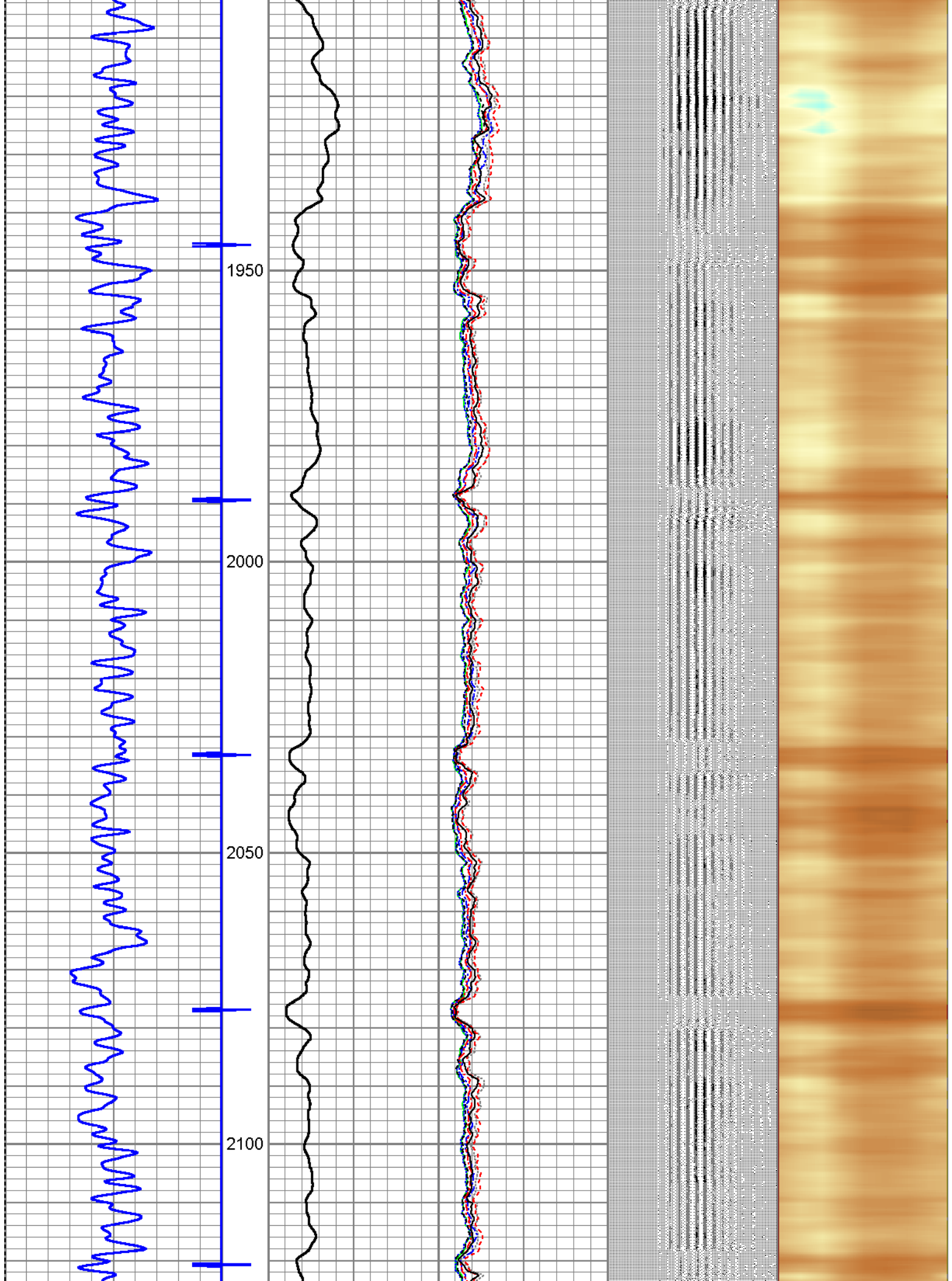




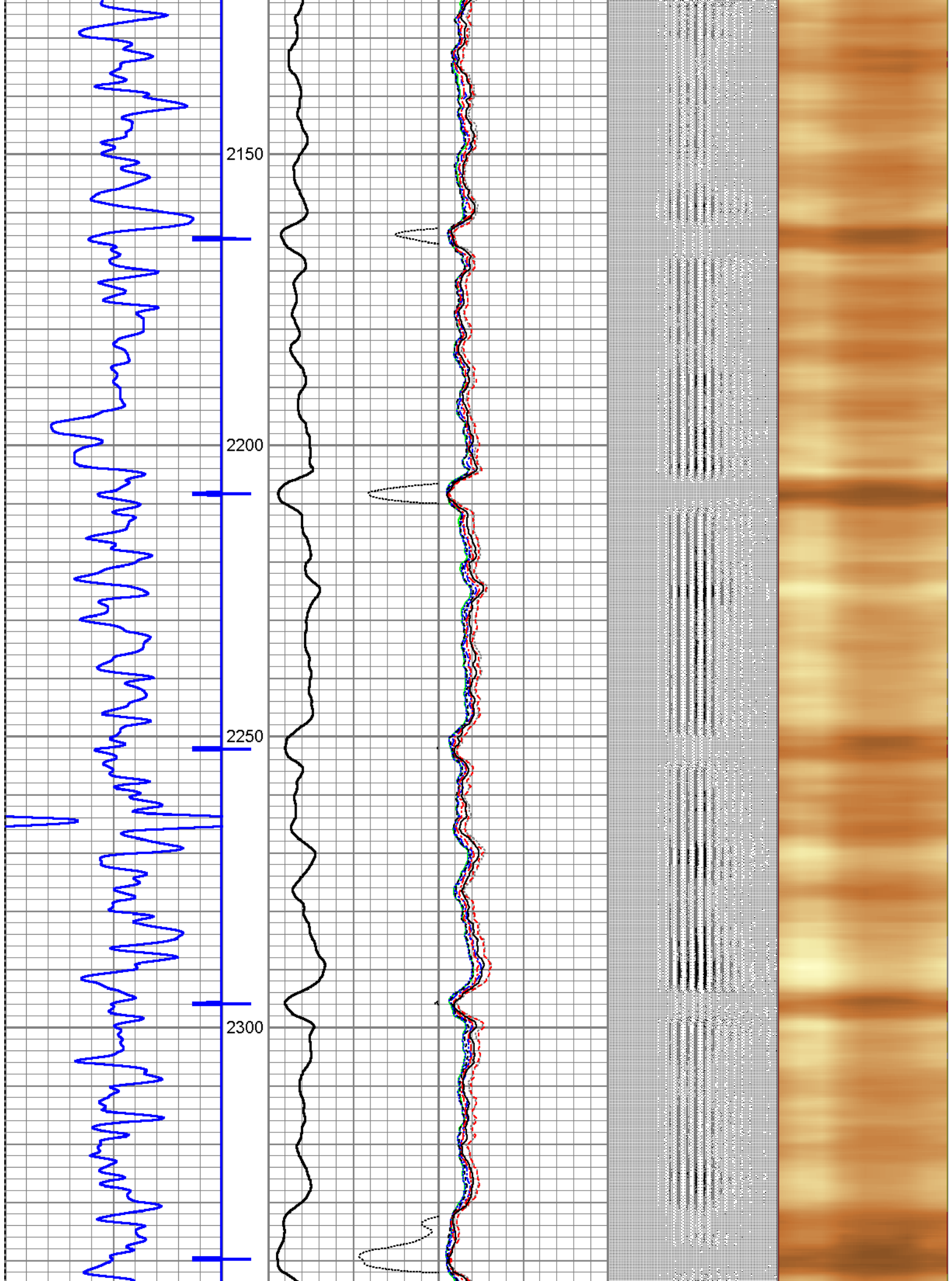


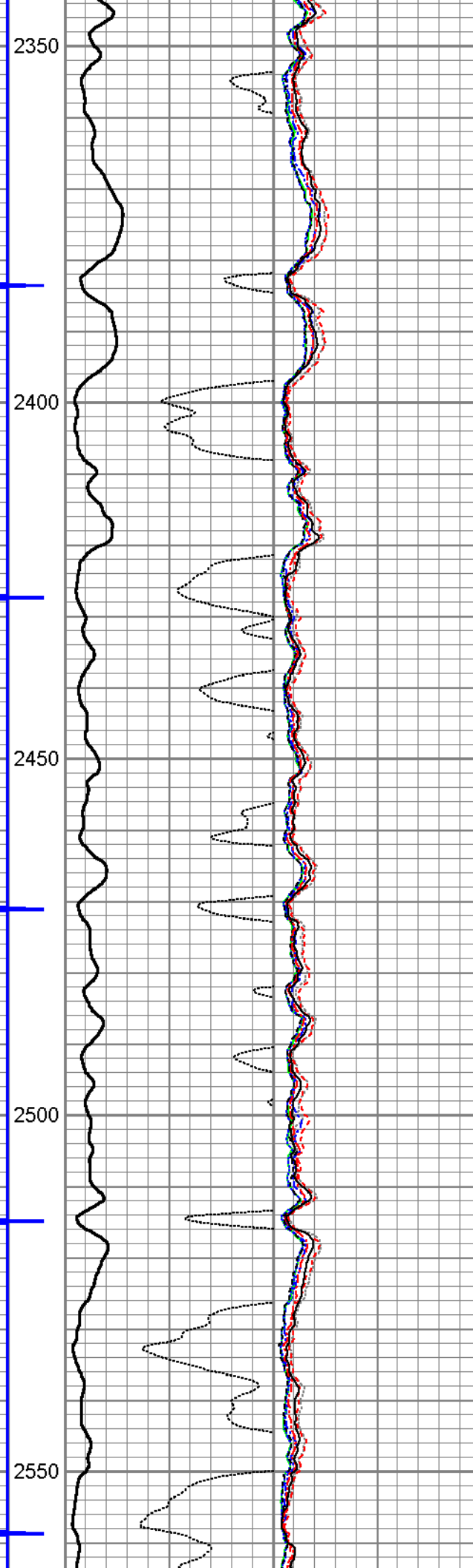
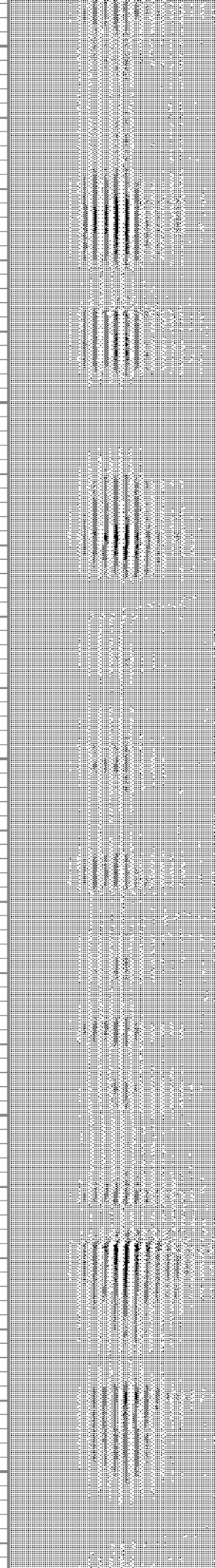




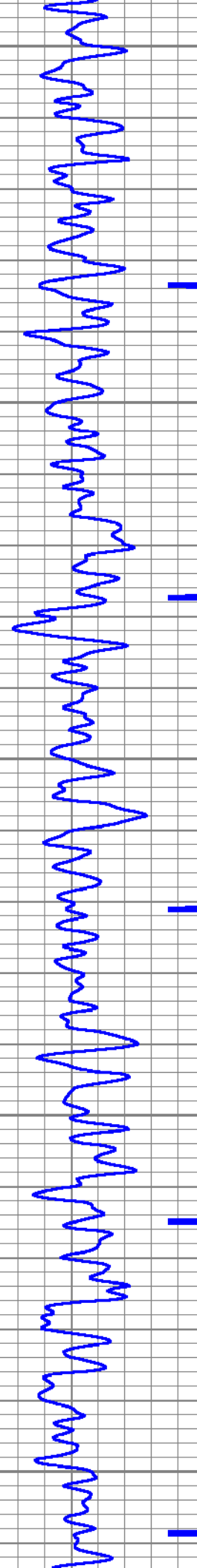




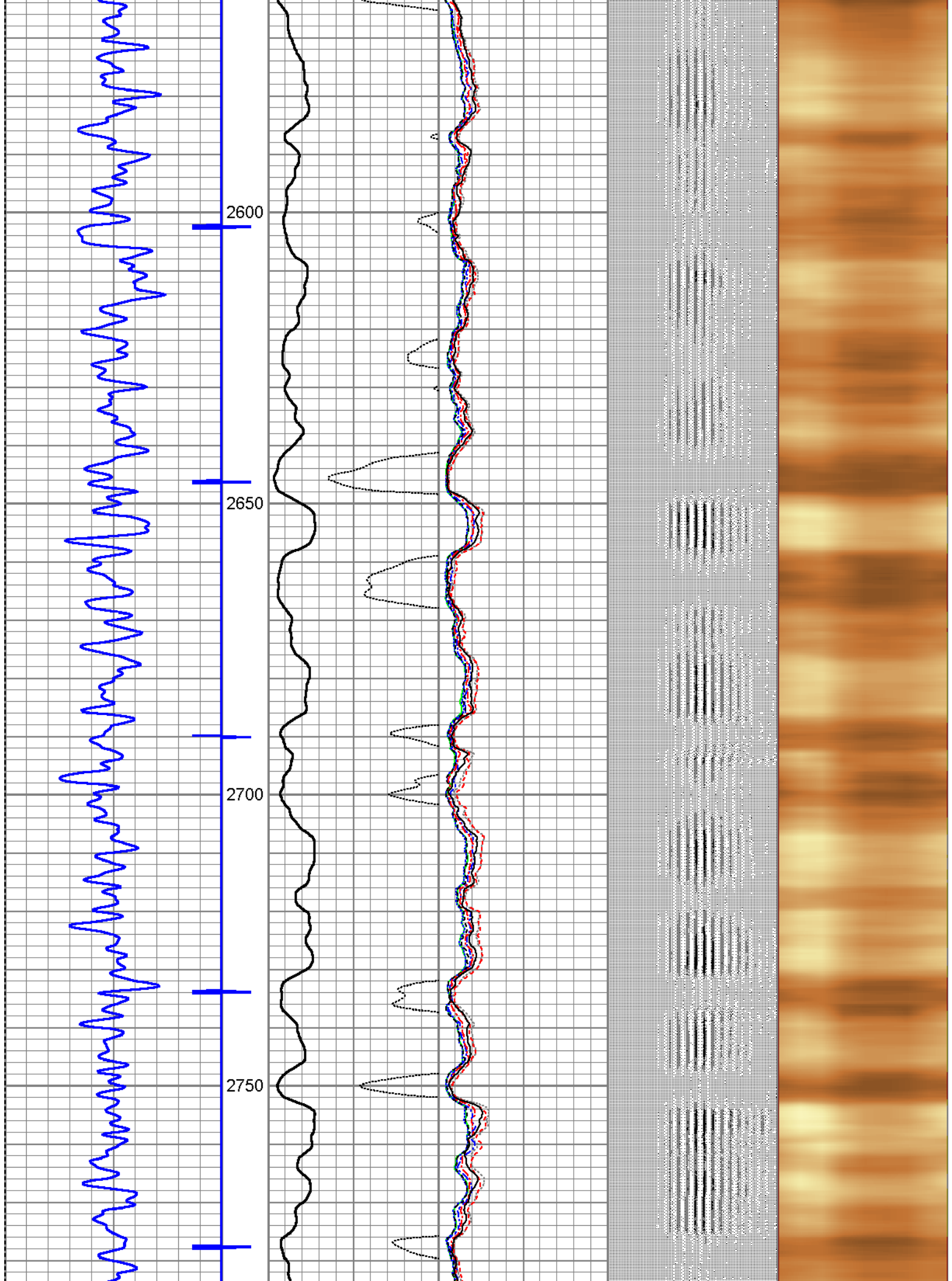


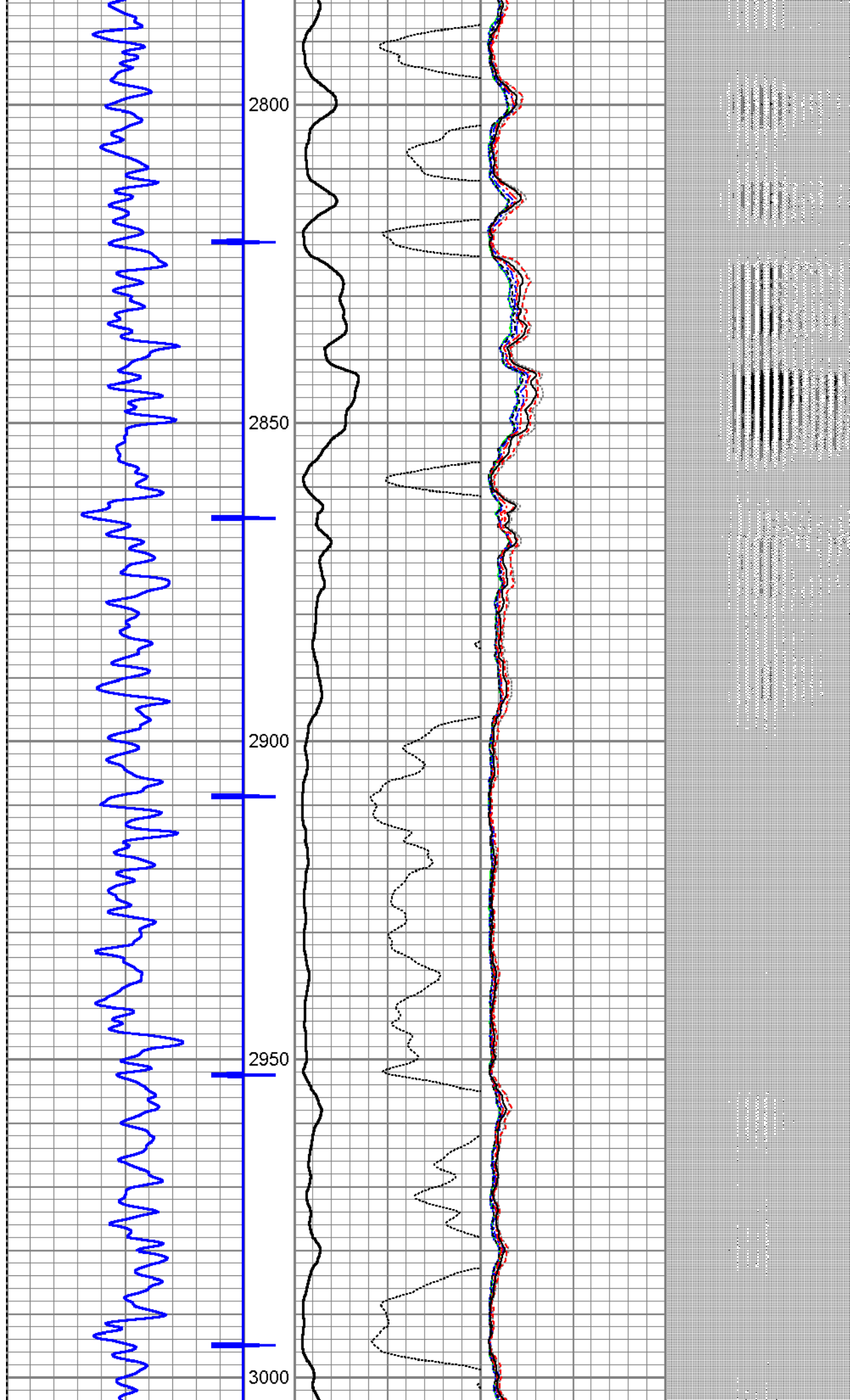


2350  
2400  
2450  
2500  
2550

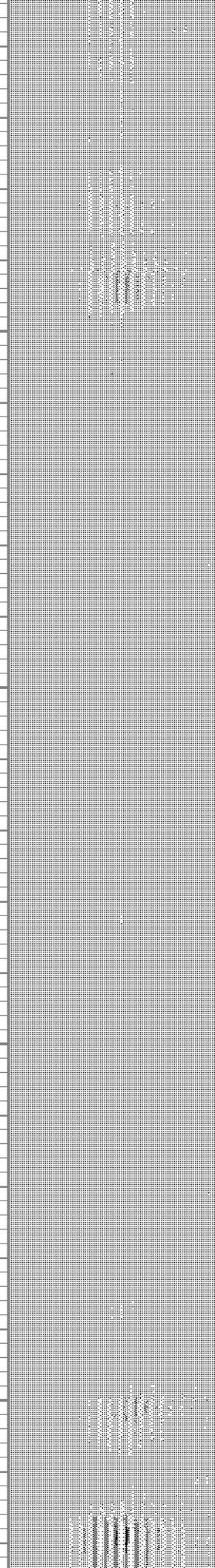
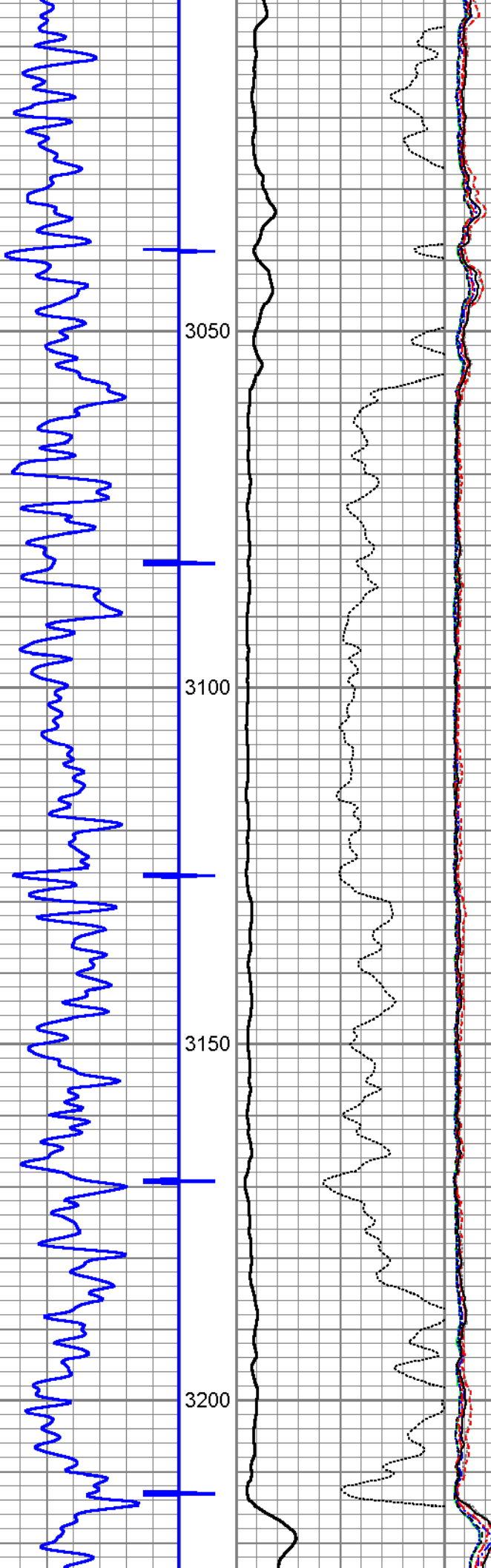


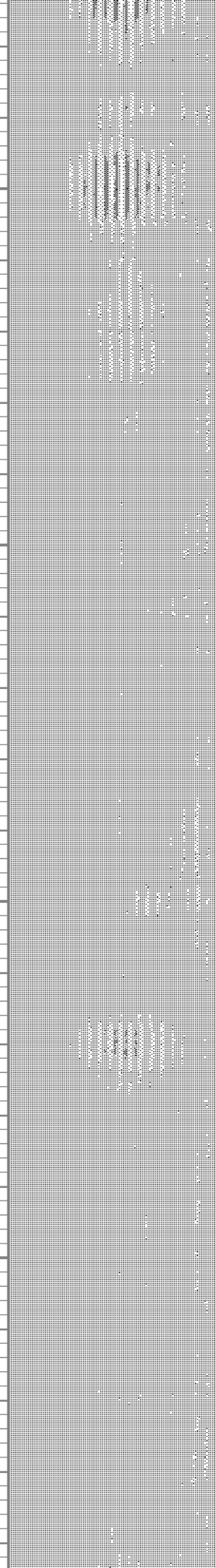
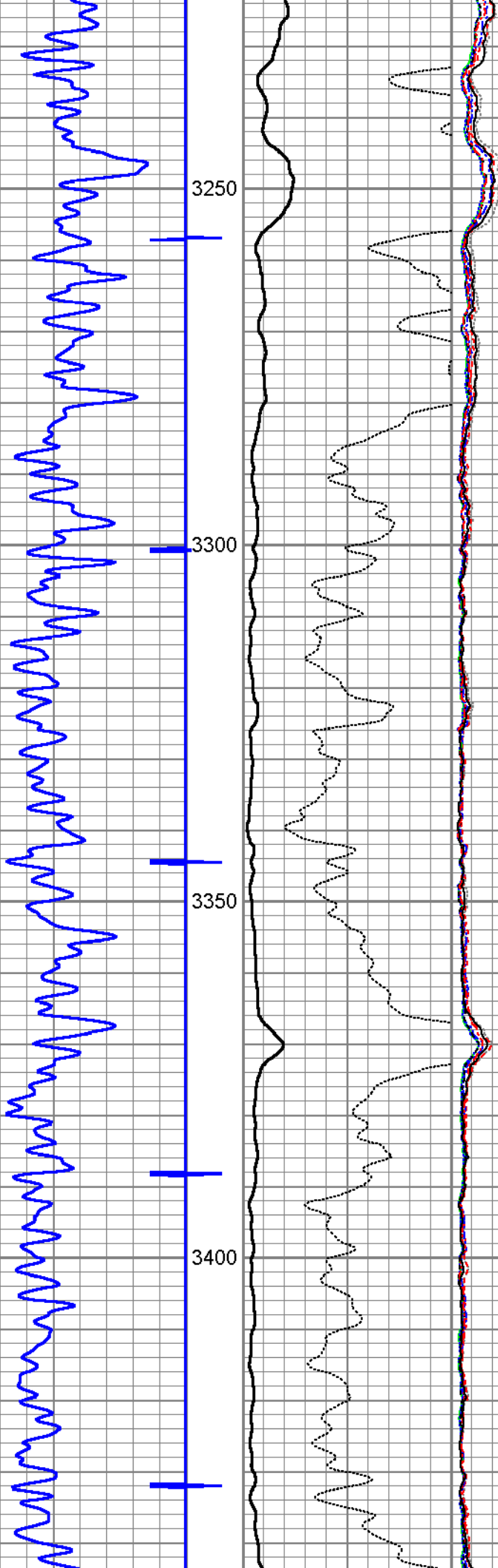




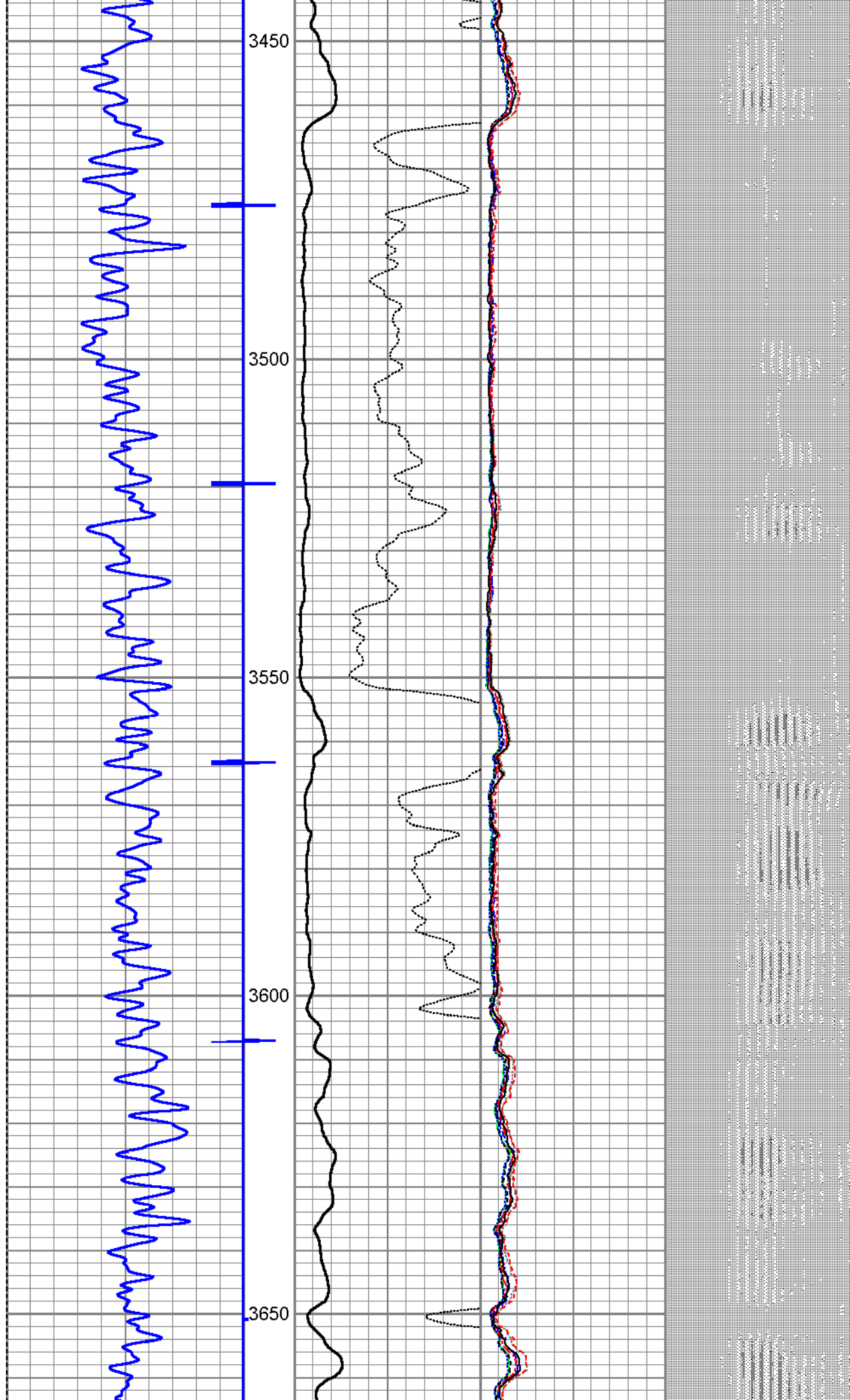


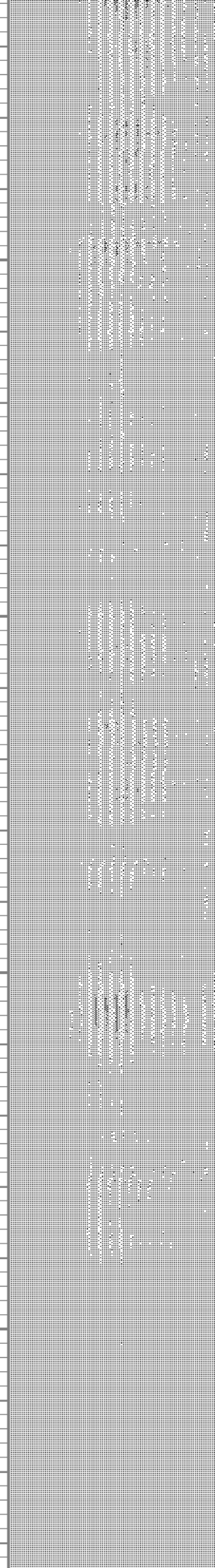
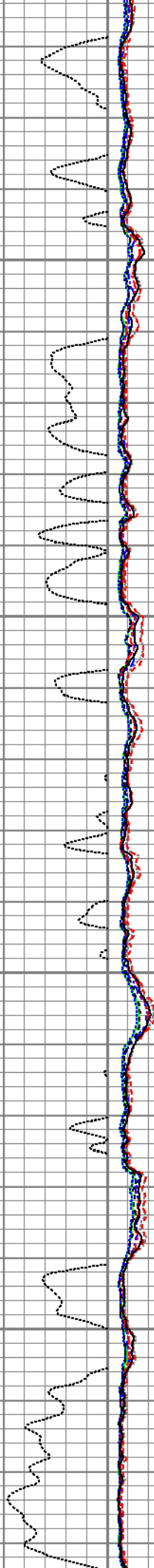
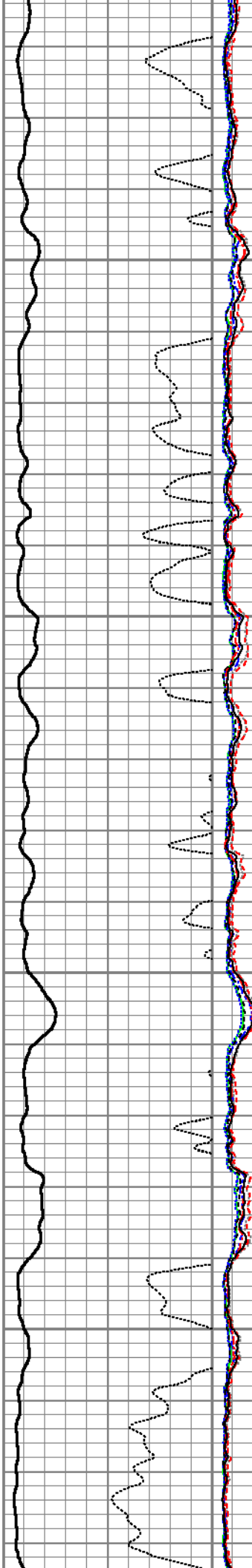
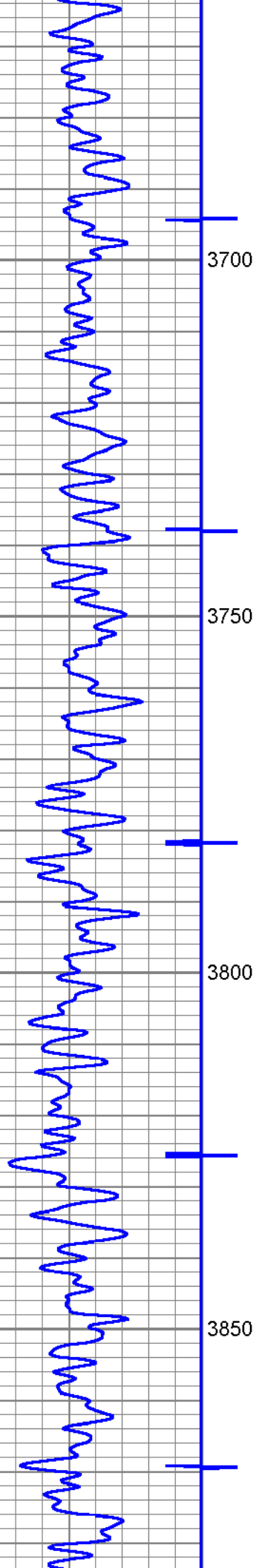




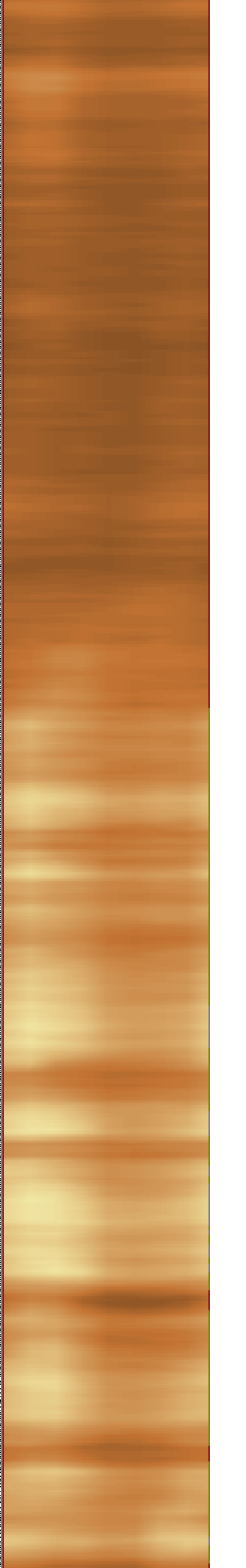
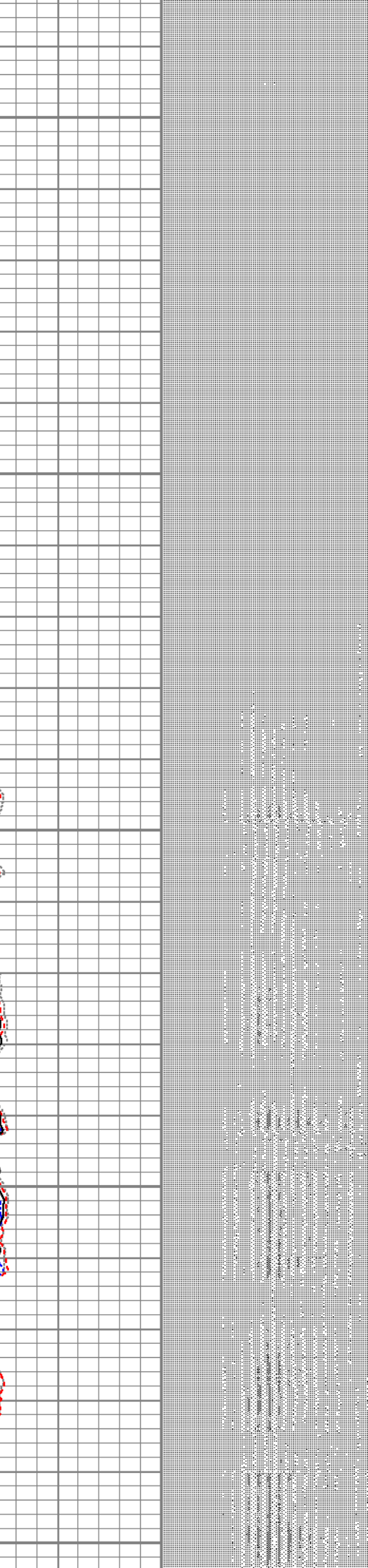
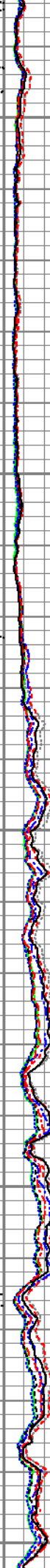
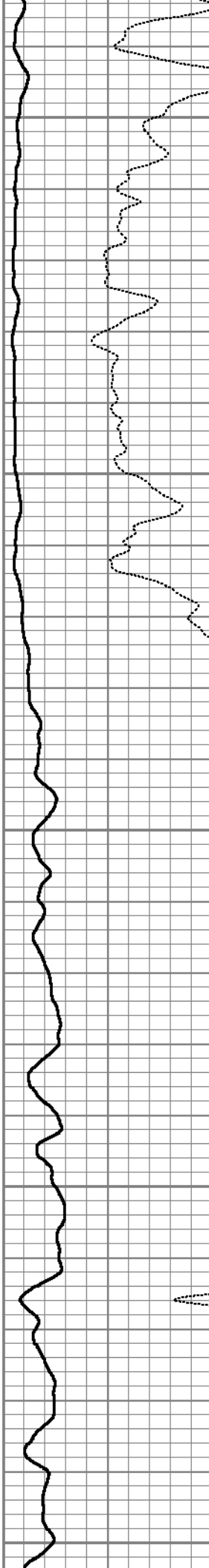
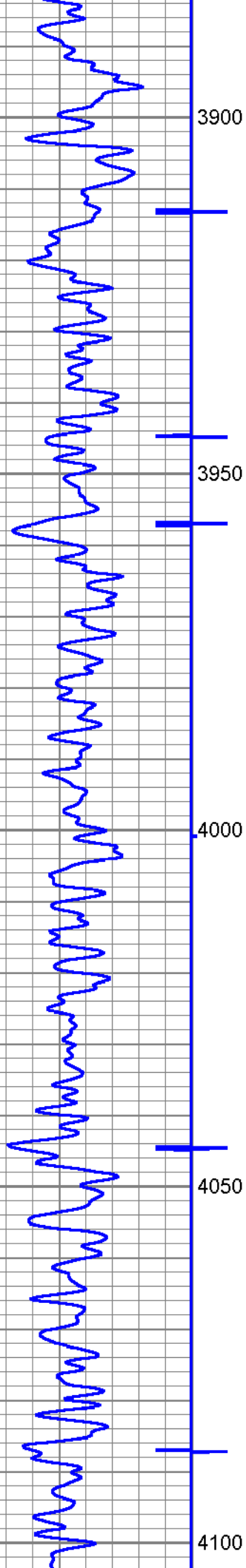


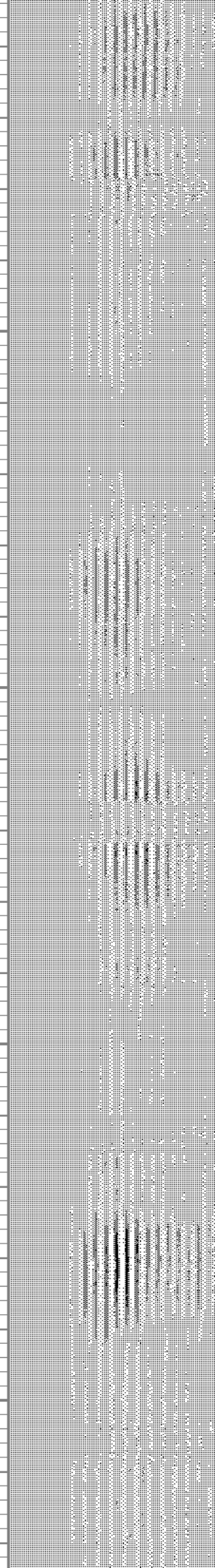
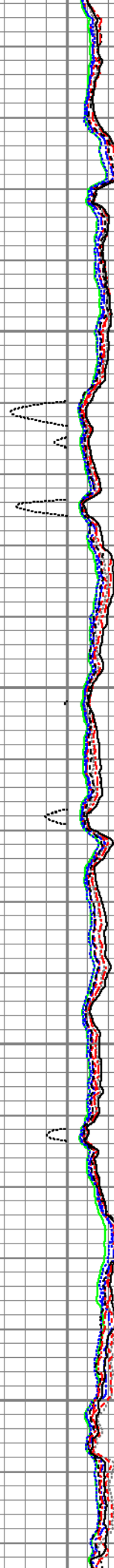
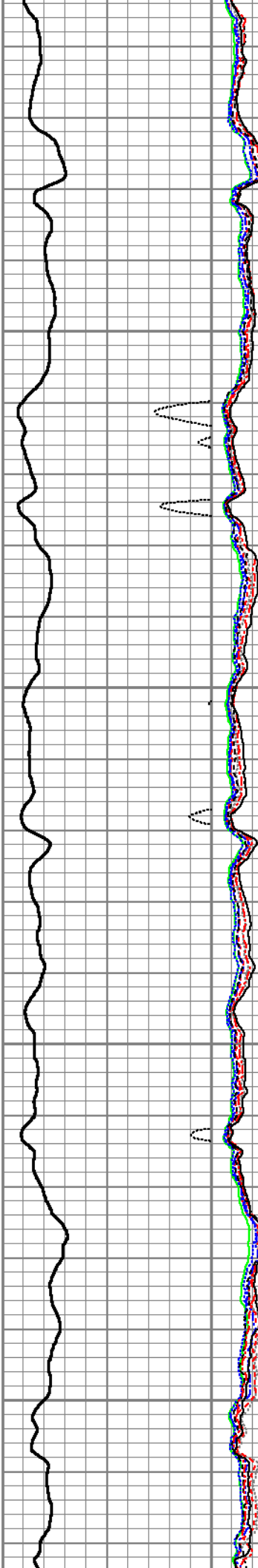
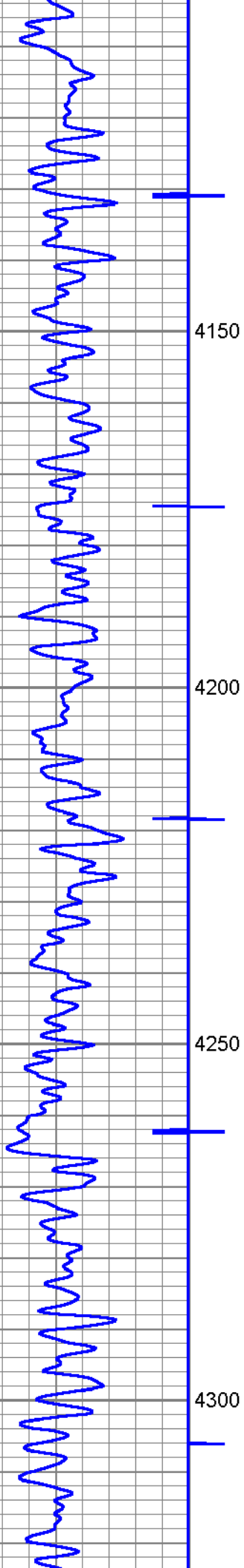




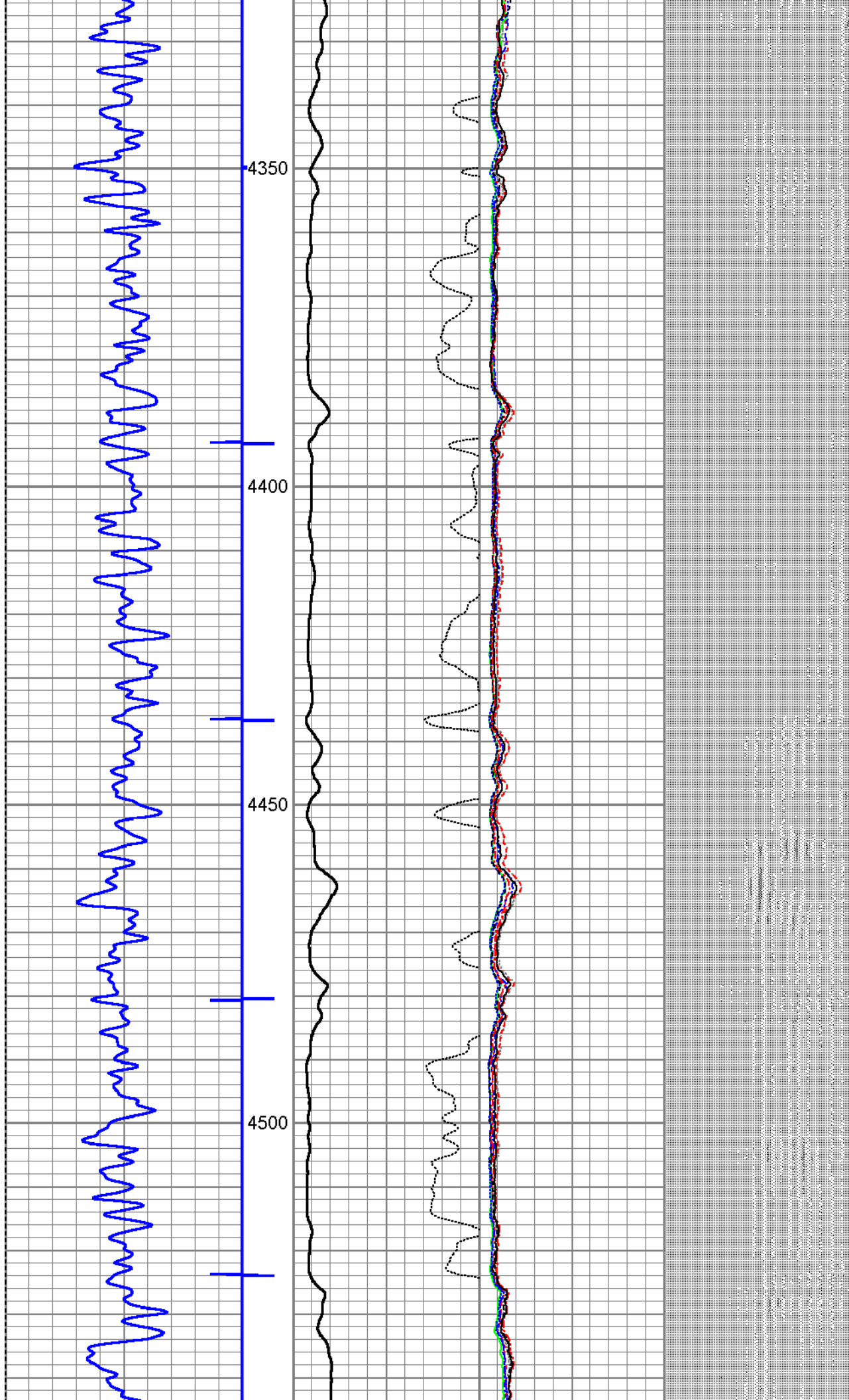


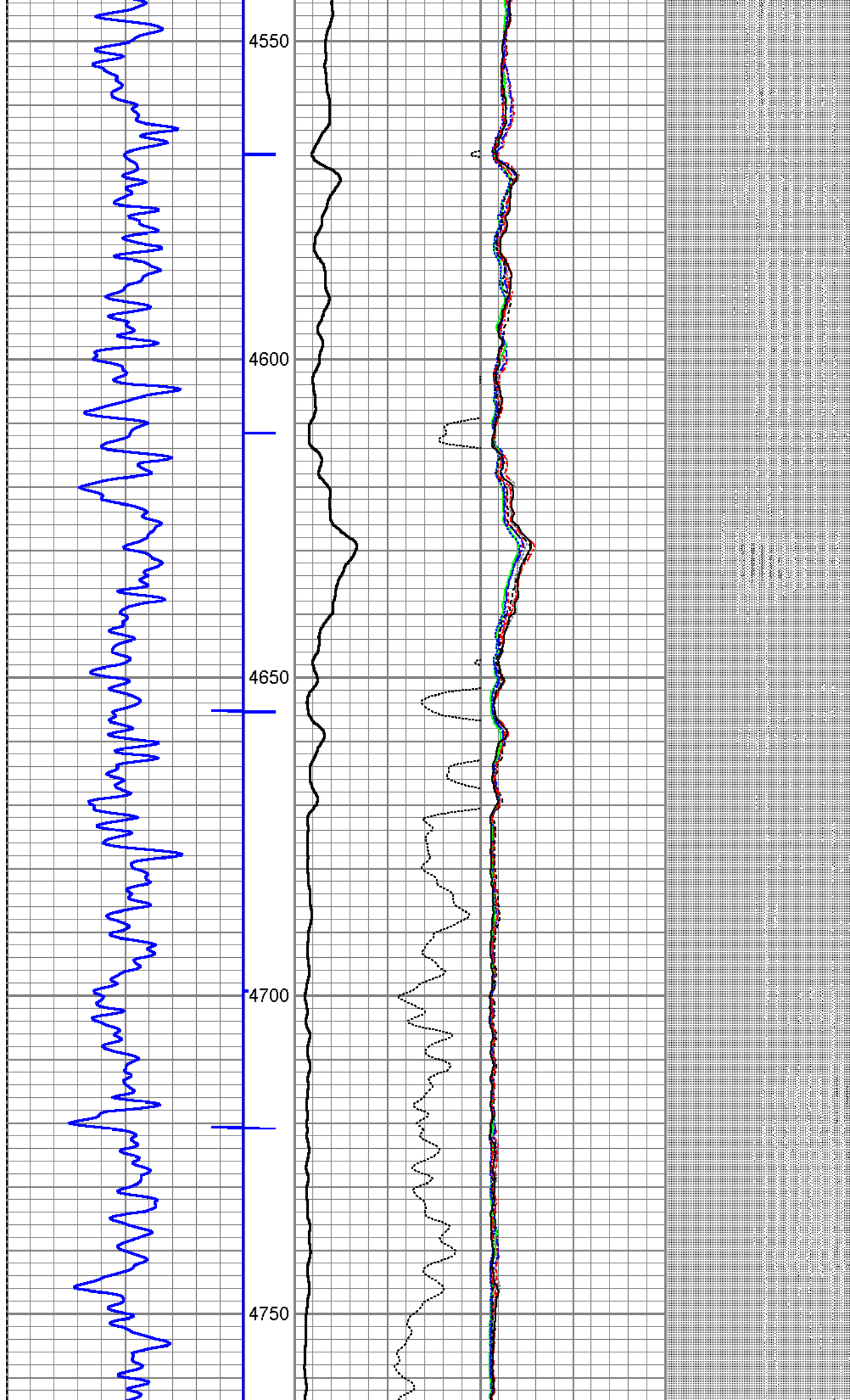




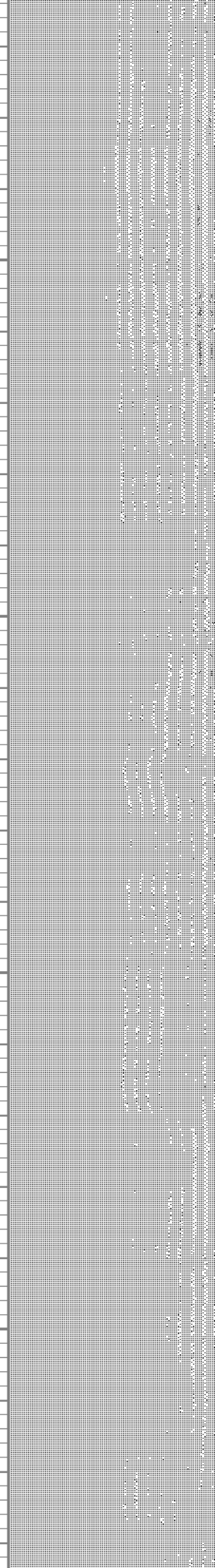
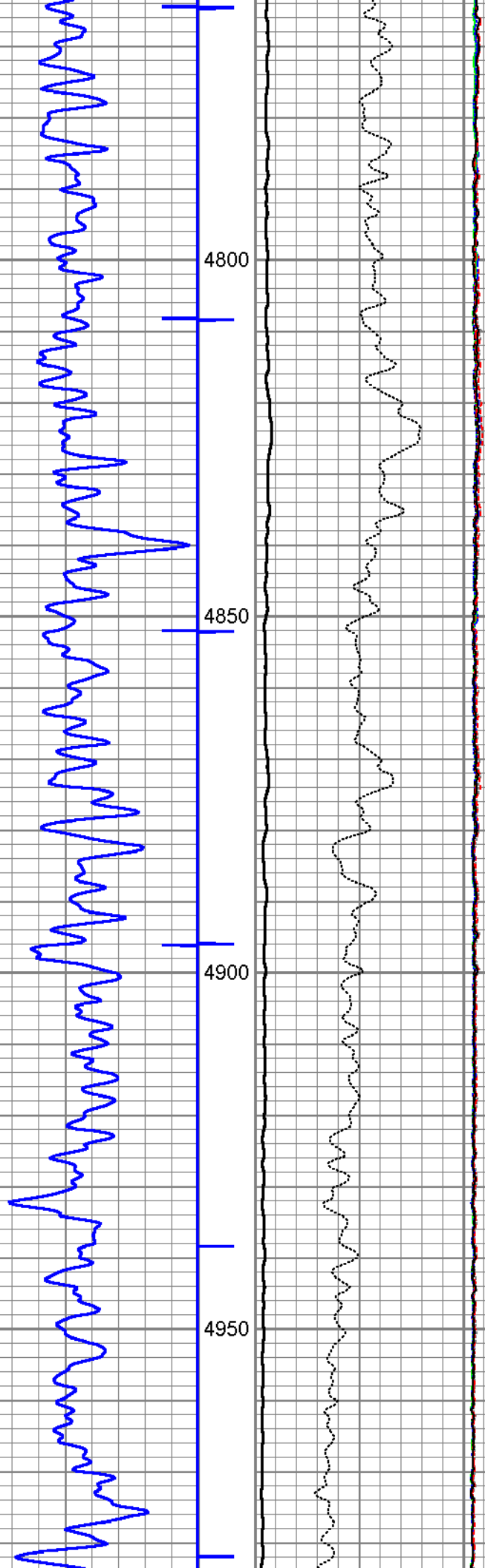


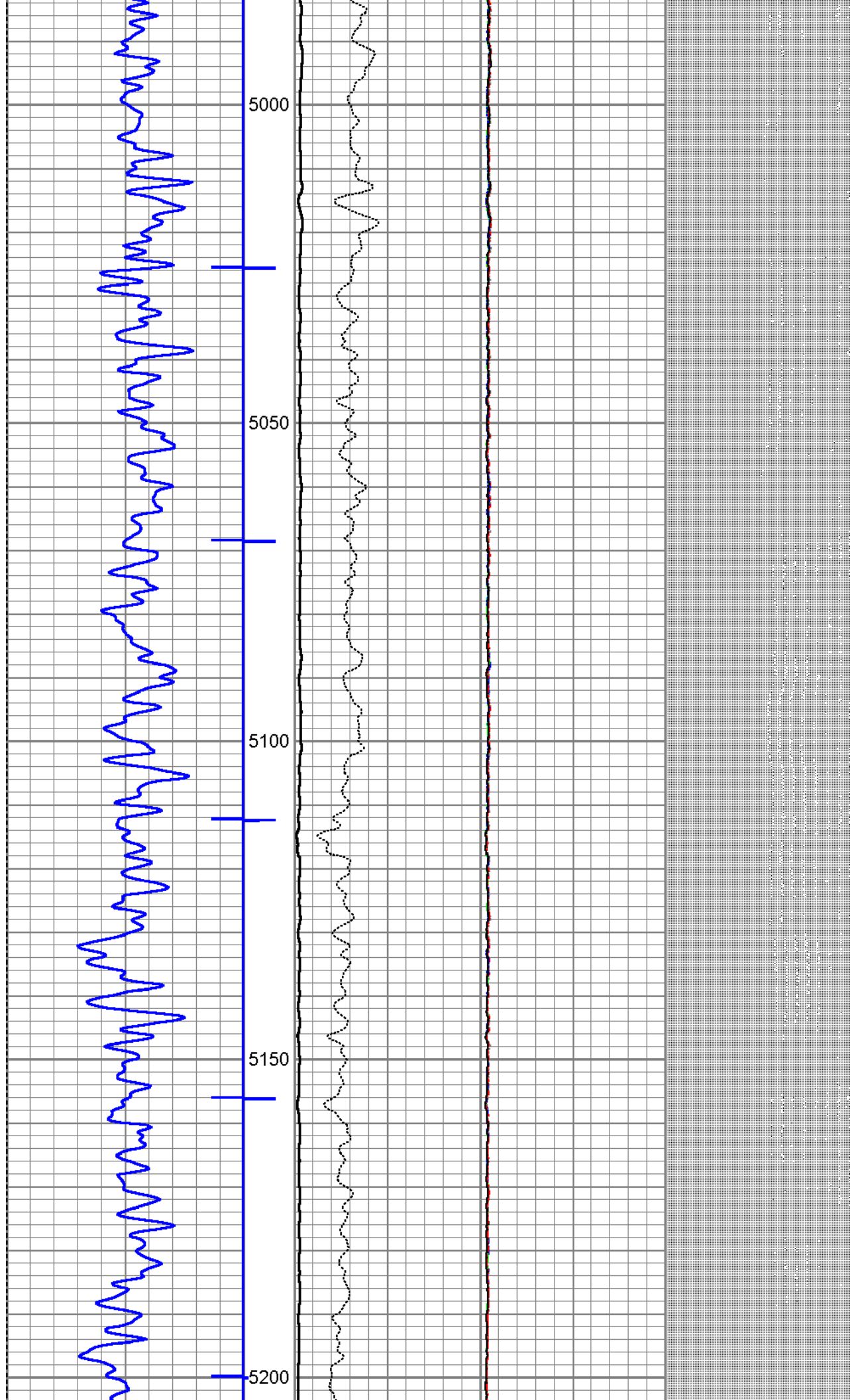




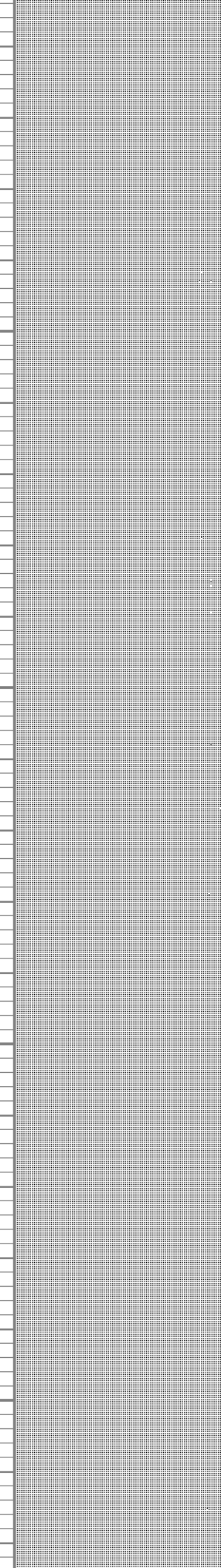
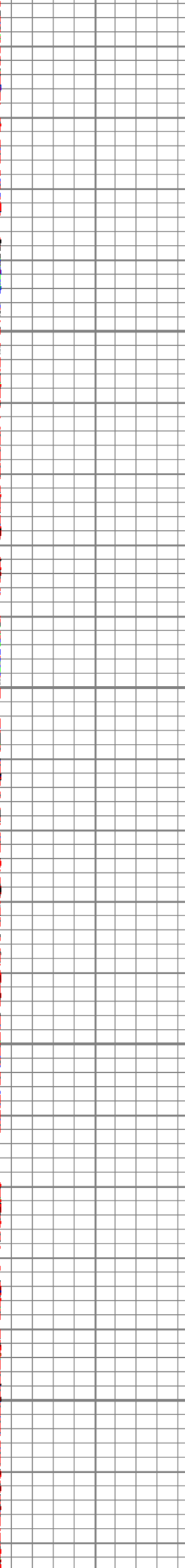
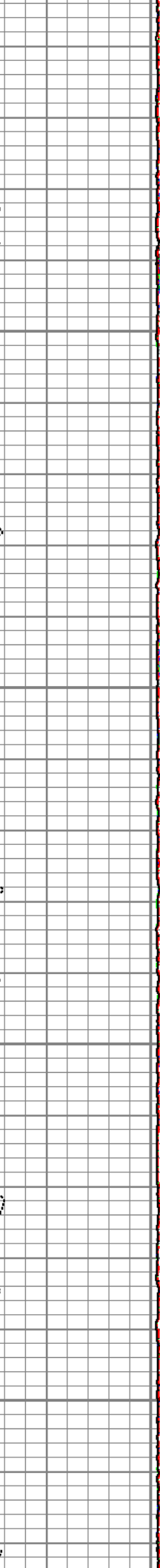
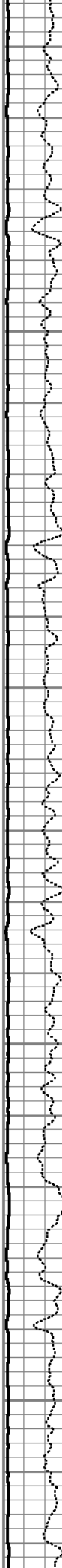
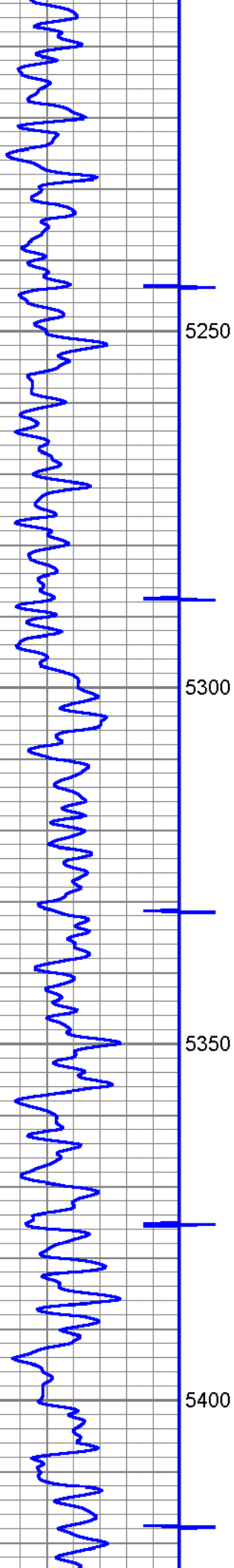


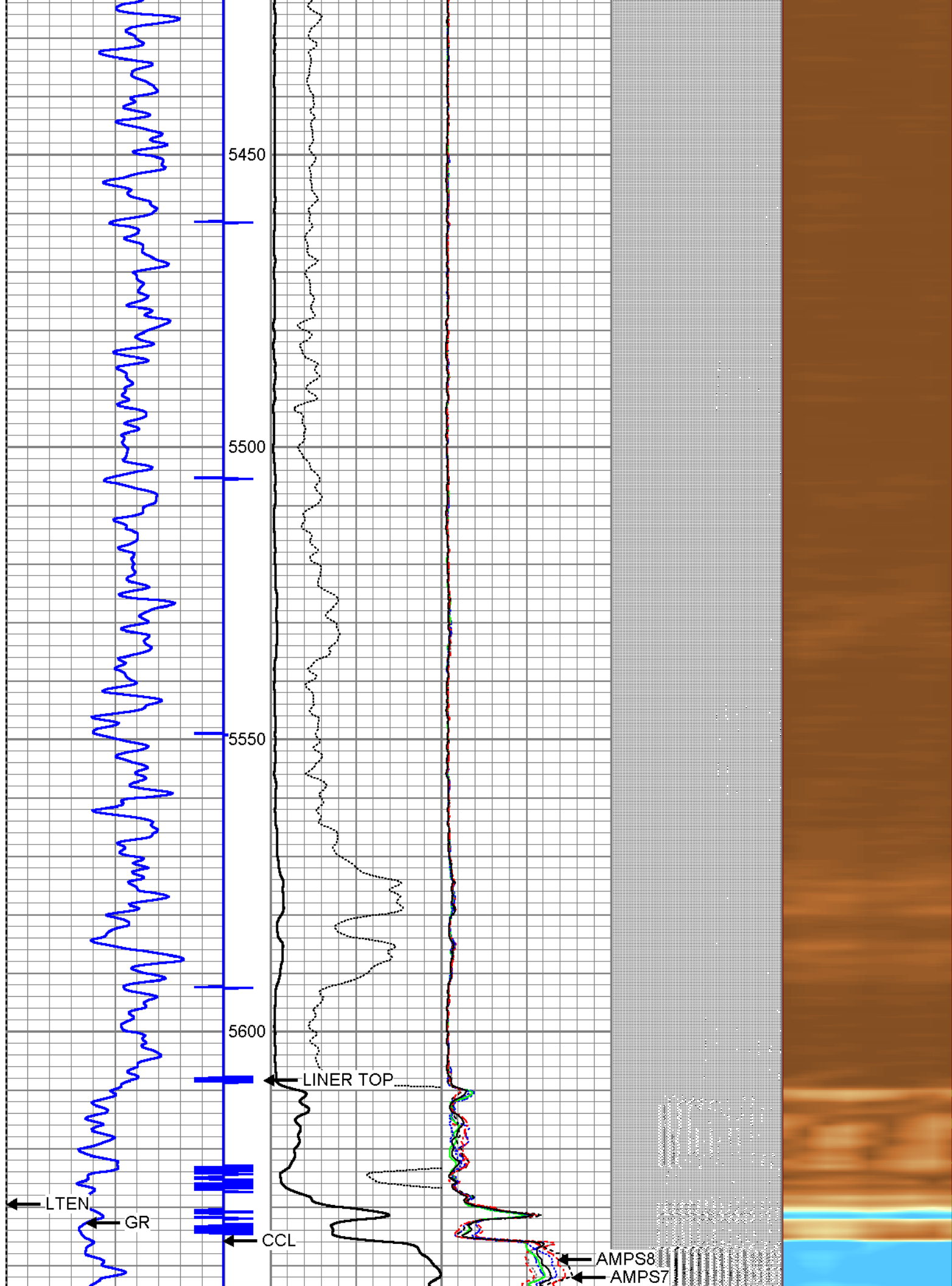




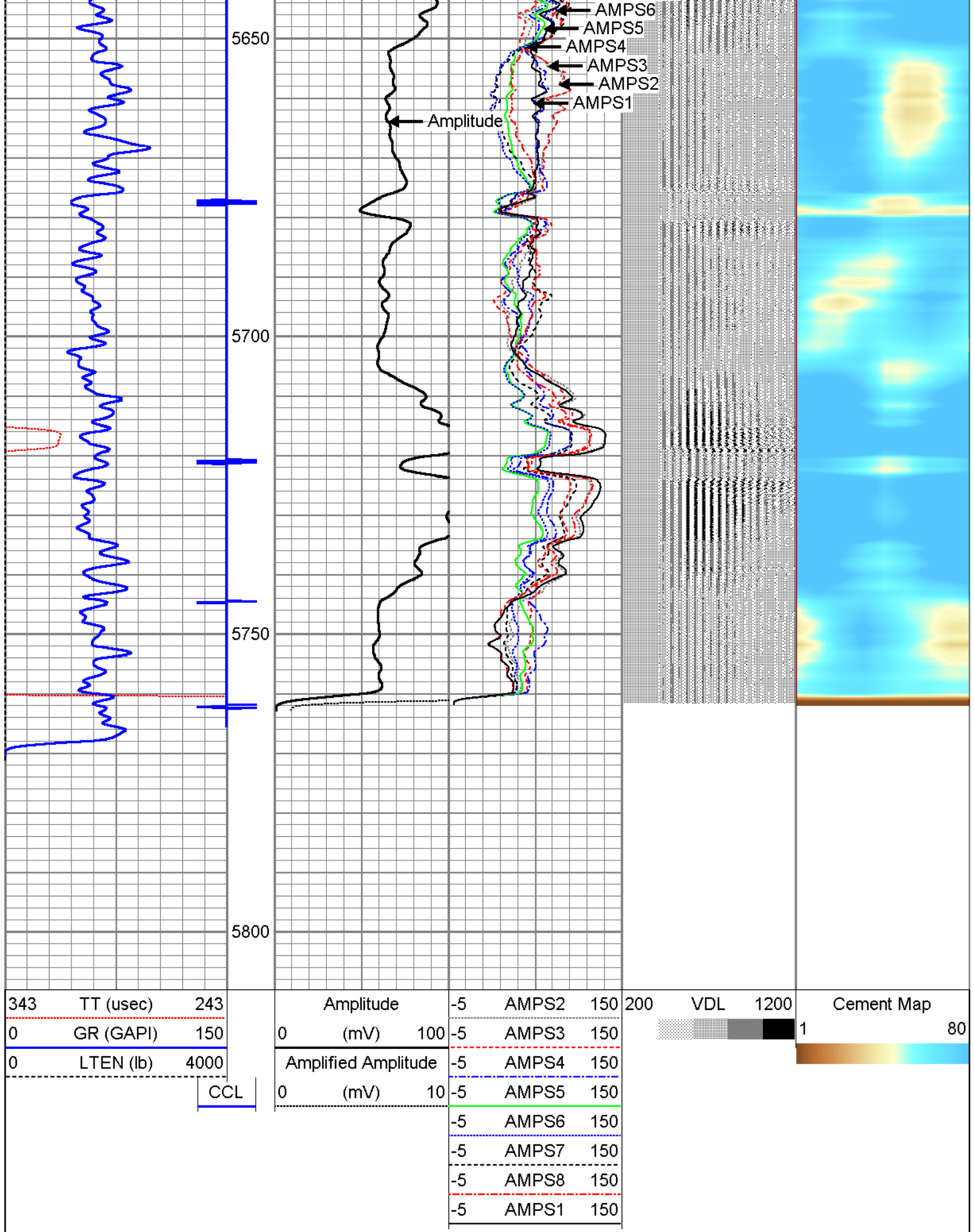














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