

## Segmented Radial Cement Gamma Ray Casing Collar Log

|                        |       |                         |          |                |        |      |    |
|------------------------|-------|-------------------------|----------|----------------|--------|------|----|
| Company                |       | Chevron USA, Inc.       |          | Country USA    |        |      |    |
| Well                   |       | Rigby A 3X              |          |                |        |      |    |
| Field                  |       | Weber Rangely Sand Unit |          |                |        |      |    |
| County                 |       | Rio Blanco              |          |                |        |      |    |
| State                  |       | Colorado                |          |                |        |      |    |
| Company                |       | Chevron USA, Inc.       |          |                |        |      |    |
| Well                   |       | Rigby A 3X              |          |                |        |      |    |
| Field                  |       | Weber Rangely Sand Unit |          |                |        |      |    |
| County                 |       | Rio Blanco              |          |                |        |      |    |
| State                  |       | Colorado                |          |                |        |      |    |
| Country                |       | USA                     |          |                |        |      |    |
| Location:              |       | API #: 05-103-07910     |          | Other Services |        |      |    |
| Permanent Datum        |       | Ground Level            |          | Elevation      |        |      |    |
| Log Measured From      |       | Kelly Bushing           |          | = 15'          |        |      |    |
| Drilling Measured From |       | Kelly Bushing           |          | G.L. 5,427'    |        |      |    |
| SEC 24 TWP 103WRGE 6   |       | SESW                    |          | MIT            |        |      |    |
| Date                   |       | November 16, 2015       |          |                |        |      |    |
| Run Number             |       | One                     |          |                |        |      |    |
| Depth Driller          |       | 5,780 FT                |          |                |        |      |    |
| Depth Logger           |       | 5,480 FT                |          |                |        |      |    |
| Bottom Logged Interval |       | 5,480 FT                |          |                |        |      |    |
| Top Log Interval       |       | Surface                 |          |                |        |      |    |
| Open Hole Size         |       | 8.75"                   |          |                |        |      |    |
| Type Fluid             |       | Water                   |          |                |        |      |    |
| Density / Viscosity    |       | 8.33 ppG                |          |                |        |      |    |
| Max. Recorded Temp.    |       | ---                     |          |                |        |      |    |
| Estimated Cement Top   |       | 1,620 FT                |          |                |        |      |    |
| Time Well Ready        |       | 08:30                   |          |                |        |      |    |
| Time Logger on Bottom  |       | 09:15                   |          |                |        |      |    |
| Equipment Number       |       | HD-0264                 |          |                |        |      |    |
| Location               |       | Grand Junction, CO      |          |                |        |      |    |
| Recorded By            |       | J. Allemang             |          |                |        |      |    |
| Witnessed By           |       | A. Ward                 |          |                |        |      |    |
| Borehole Record        |       | Tubing Record           |          |                |        |      |    |
| Run Number             | Bit   | From                    | To       | Size           | Weight | From | To |
| Surface                | 13.75 | Surface                 | 776 FT   |                |        |      |    |
| Production             | 8.75  | 776 FT                  | 5,780 FT |                |        |      |    |
| Casing Record          | Size  | Wd/Ft                   | Top      | Bottom         |        |      |    |
| Surface String         | 9.625 | 40#                     | Surface  | 776 FT         |        |      |    |
| Prot. String           |       |                         |          |                |        |      |    |
| Production String      | 7.000 | 23#                     | Surface  | 5,780 FT       |        |      |    |
| Liner                  |       |                         |          |                |        |      |    |


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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

### Comments

Log correlated to Gamma Ray of  
Schlumberger's  
Compensated Neutron Log  
Dated January 13, 1977

Thank you for choosing FMC Technologies Surface Integrated Services.

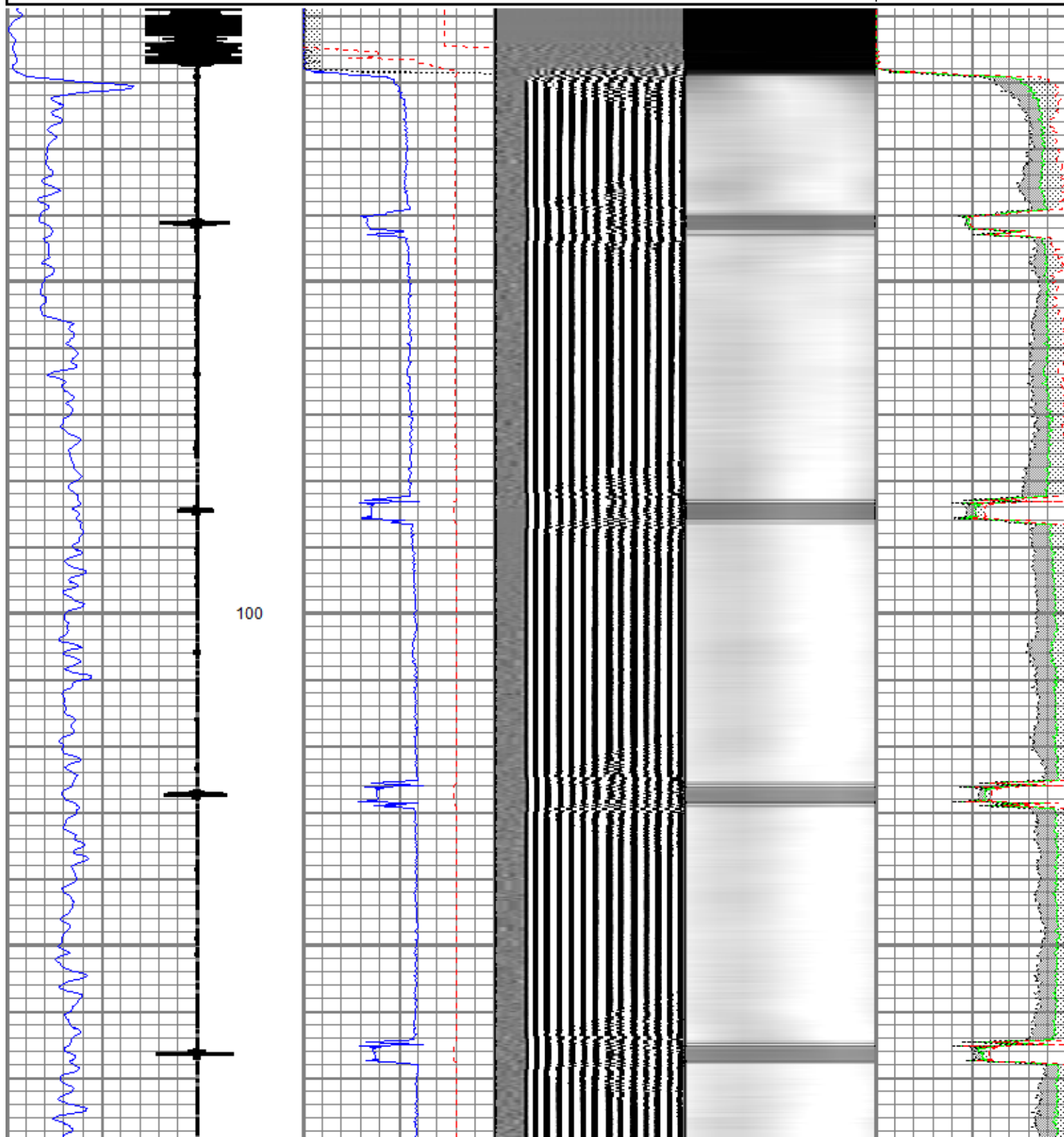
| Sensor         | Offset (ft)  | Schematic   | Description   | Len (ft) | OD (in) | Wt (lb) |
|----------------|--------------|---|---|----------|---------|---------|
| Titan_Electric | C28.05-leads |  | T_CH14375_1_GO<br>Titan 1-7/16" Assembled Electric Cable Head with<br>1" Fishing Neck | 1.03     | 1.44    | 4.00    |
|                |              |   | UW_XTU-UW_XTU_002 (10012277)  | 1.58     | 1.69    | 6.50    |

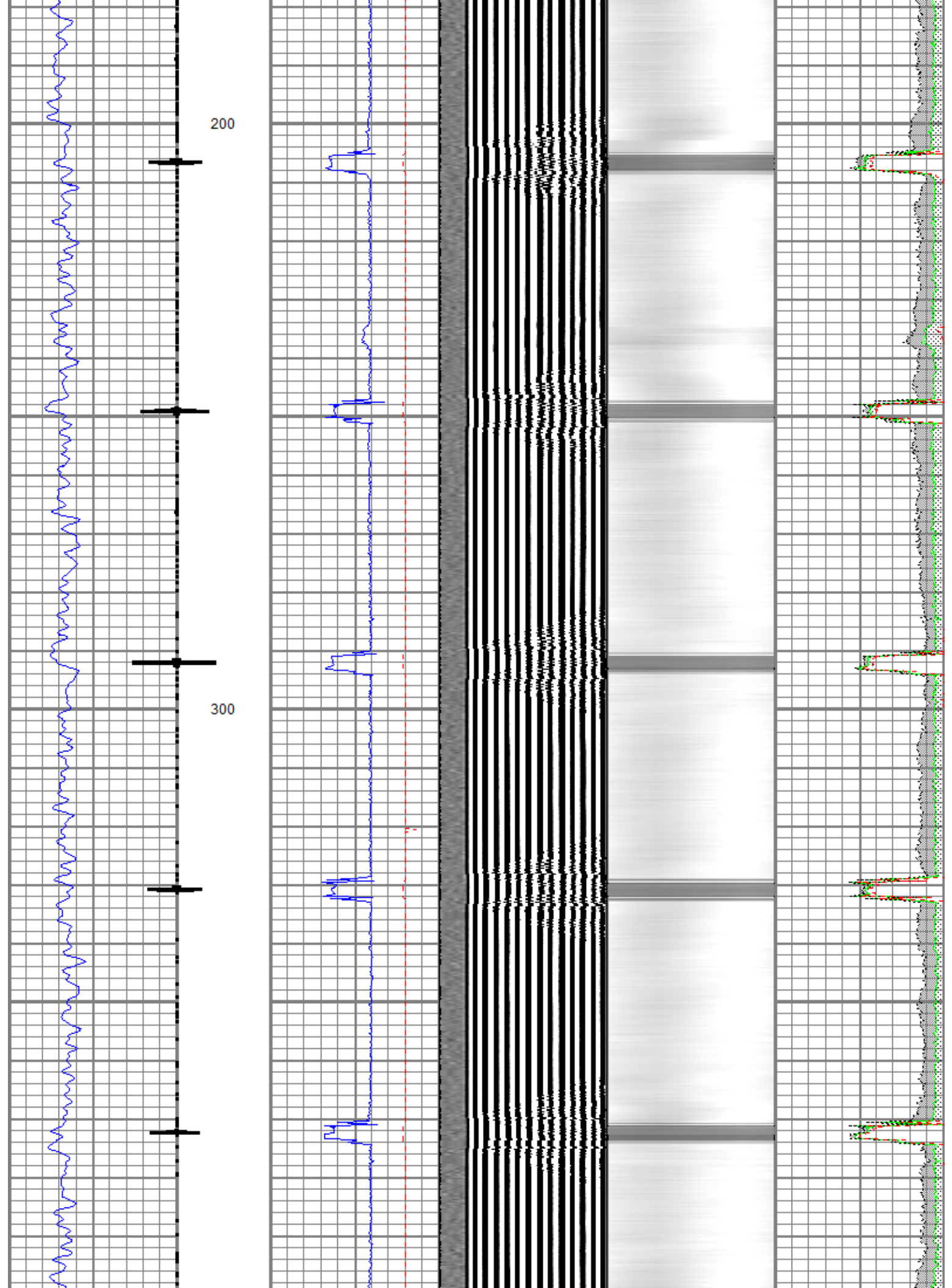
|  |       |  |  |  |      |      |        |
|--|-------|--|--|--|------|------|--------|
|  |       |  |  | Crossover Ultrawire Toolbus to Ultralink                                     |      |      |        |
| GR   | 24.02 |  |  | UW_PGR-UW_PGR_020 (10019371)<br>Production Gamma Ray                         | 1.93 | 1.69 | 9.50   |
| CCL  | 22.43 |  |  | UW_CCL-UW_CCL_3_1_8 (10024819)<br>UW 3-1/8" CCL                              | 1.63 | 3.13 | 25.00  |
| DSS  | 21.89 |  |  |  |      |      |        |
|  |       |  |  | DSS-2-3/4" (RAC.20.085SX)<br>DSS 2-3/4" 5 Arm Centralizer W/ Sondex Ends     | 2.55 | 2.75 |        |
| UW_RBT   | 19.34 |  |  |  |      |      |        |
| WVFS3FT  | 15.00 |  |  |  |      |      |        |
| WVFS1  | 15.00 |  |  | UW_RBT-UW_RBT_004 (10012639)<br>Sondex Ultrawire 3-1/8" Radial Bond Tool     | 9.47 | 3.13 | 140.00 |
| WVFS2  | 15.00 |  |  |  |      |      |        |
| WVFS3  | 15.00 |  |  |  |      |      |        |
| WVFS4  | 15.00 |  |  |  |      |      |        |
| WVFS5  | 15.00 |  |  |  |      |      |        |
| WVFS6  | 15.00 |  |  |  |      |      |        |
| WVFS7  | 15.00 |  |  |  |      |      |        |
| WVFS8  | 15.00 |  |  |  |      |      |        |
| CBLTEMP  | 15.00 |  |  |  |      |      |        |
| CBLROT   | 15.00 |  |  |  |      |      |        |
| WVF5FT   | 14.00 |  |  |  |      |      |        |
| DSS  | 9.86  |  |  | DSS #2 -2-3/4" (RAC.20.086SX)<br>DSS 2-3/4" 5 Arm Centralizer W/ Sondex Ends | 2.55 | 2.75 |        |
|  |       |  |  |  |      |      |        |
| MIT  | 4.98  |  |  | UW_MIT-UW_MIT40_042 (10014703)<br>40 Multifinger Imaging Tool                | 4.54 | 2.75 | 61.10  |
|  |       |  |  |  |      |      |        |
| DSS  | 2.77  |  |  |  |      |      |        |
| UW_BUL   | 0.22  |  |  | DSS #3 -2-3/4" (RAC.20.087SX)<br>DSS 2-3/4" 5 Arm Centralizer W/ Sondex Ends | 2.55 | 2.75 |        |
| TSTAMP   | 0.00  |  |  |  |      |      |        |
| ITEMPX   | 0.00  |  |  | UW_BUL-UW_BUL_006 (10019616)<br>Sondex Ultrawire Bullnose Terminator         | 0.22 | 1.69 | 1.20   |
| HVOLT  | 0.00  |  |  |  |      |      |        |
| Dataset: riga3x.db: field/well/run1/main<br>Total Length: 28.05 ft<br>Total Weight: 247.30 lb<br>O.D.: 3.13 in |       |  |  |  |      |      |        |

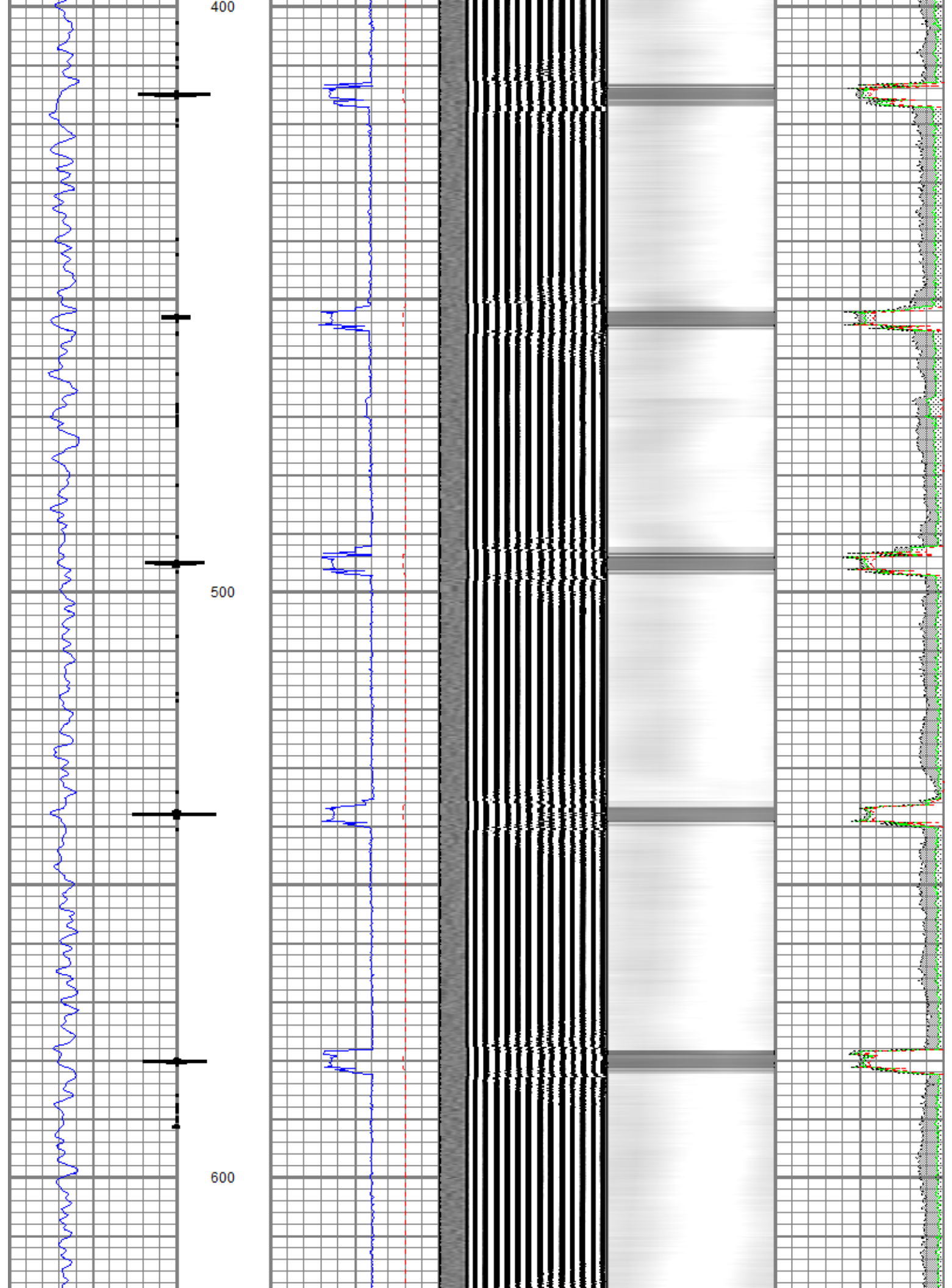
## Main Pass

Database File: riga3x.db  
 Dataset Pathname: merge4.1  
 Presentation Format: rbt007  
 Dataset Creation: Mon Nov 16 14:39:00 2015 by Calc 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

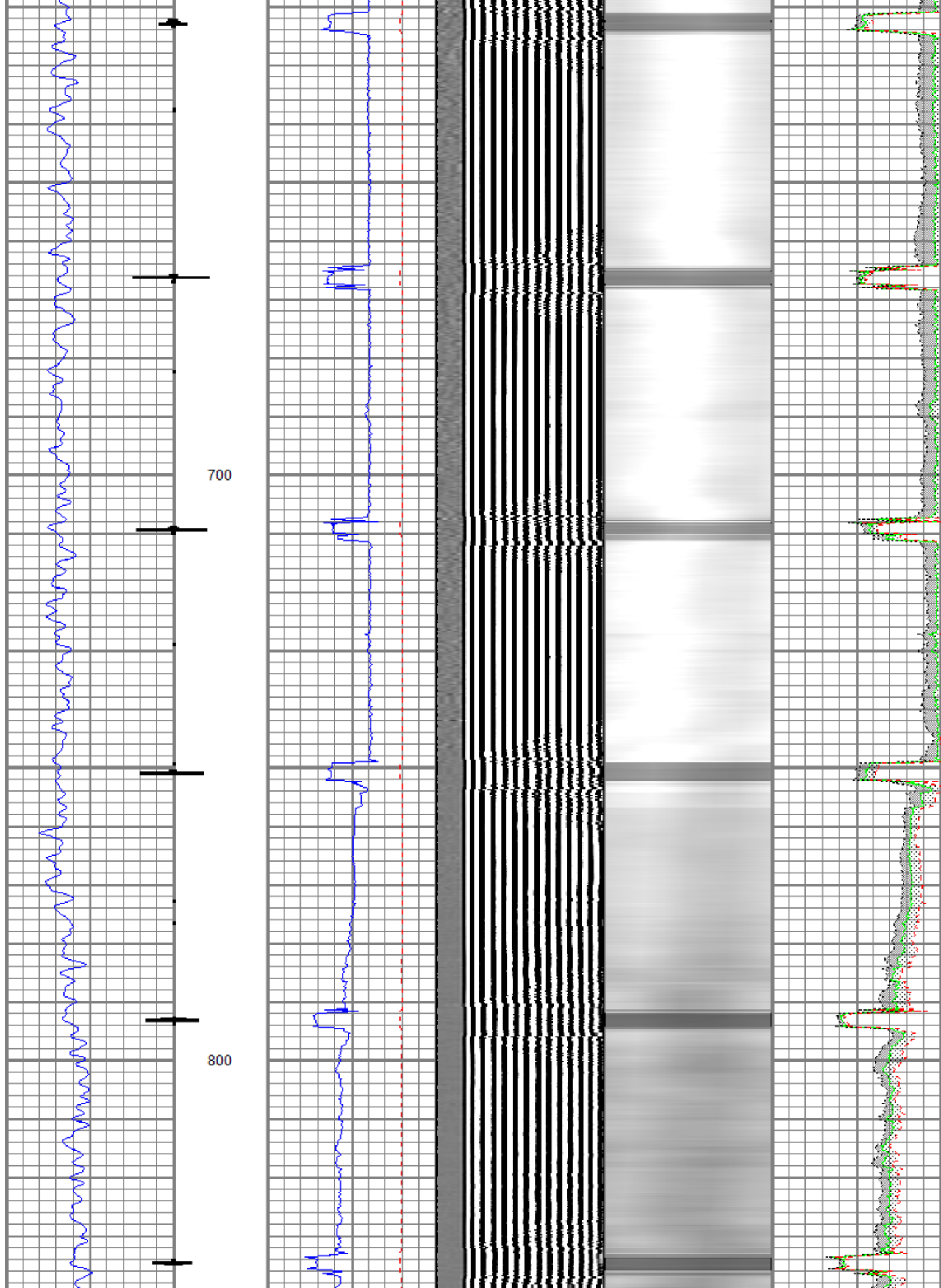
|                |     |                   |     |                         |            |                   |     |
|----------------|-----|-------------------|-----|-------------------------|------------|-------------------|-----|
| Gamma Ray      | 0   | 3' Amplitude (mV) | 100 | 5' Variable Density Log | Sector Map | Average Amplitude |     |
| (GAPI)         | 0   | 3' Amplitude x 5  | 200 | 1200                    |            | 0                 | 100 |
| Collar Locator | 0   | (mV)              | 20  |                         |            | Minimum Amplitude |     |
|                |     | 3' Travel Time    |     |                         |            | 0                 | 100 |
|                | 650 | (usec)            | 150 |                         |            | Maximum Amplitude |     |
|                |     |                   |     |                         |            | 0                 | 100 |

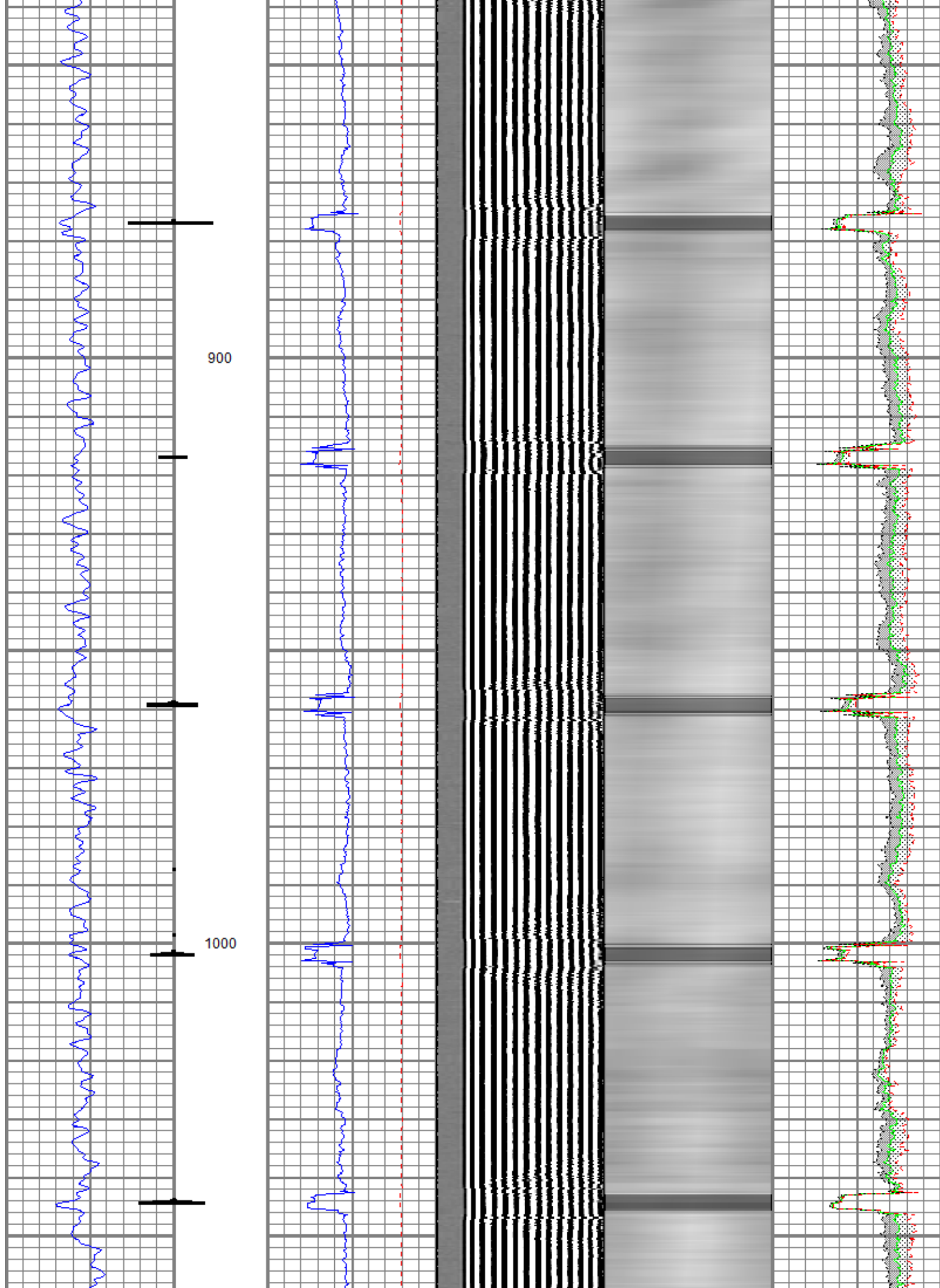


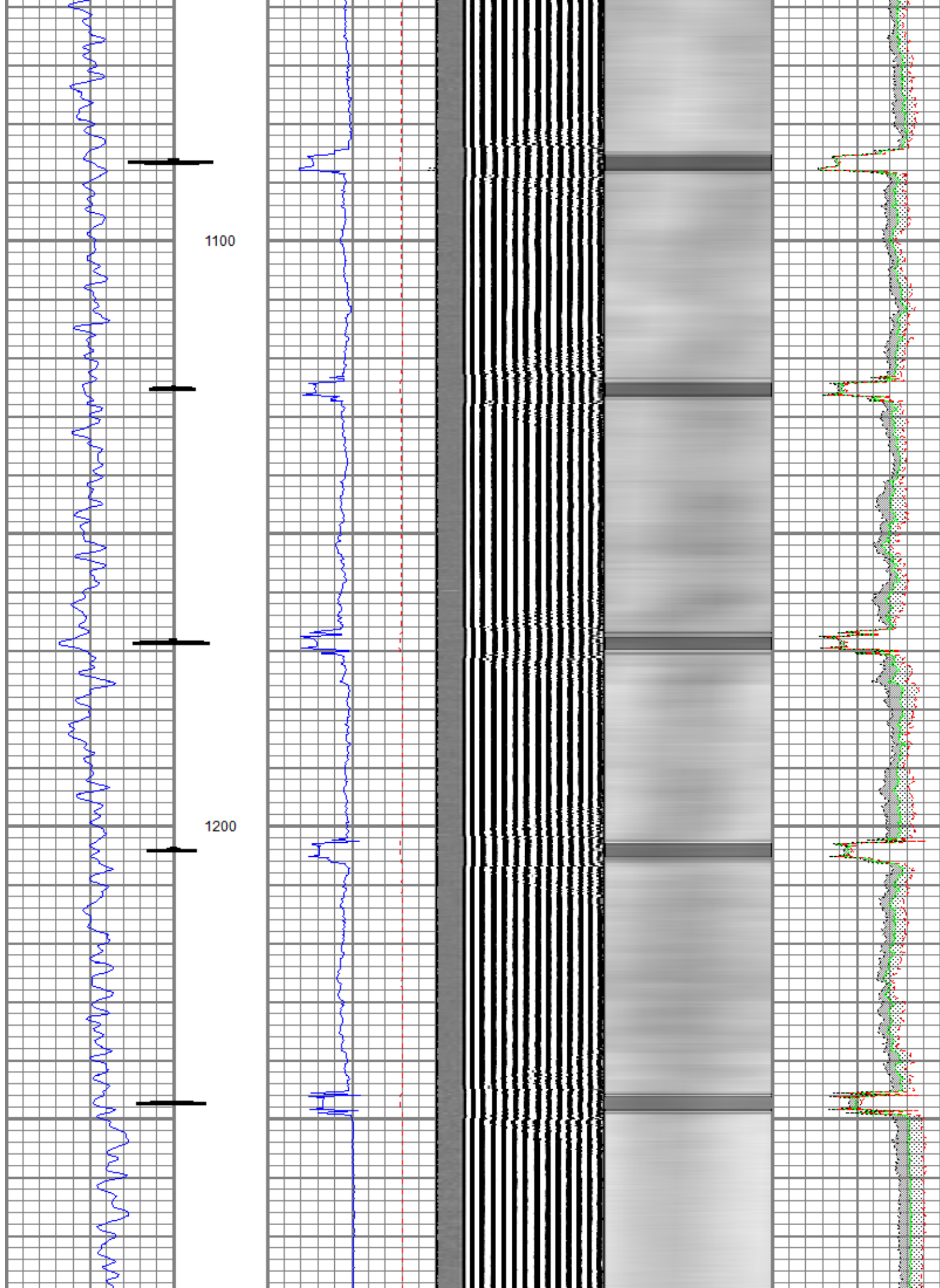




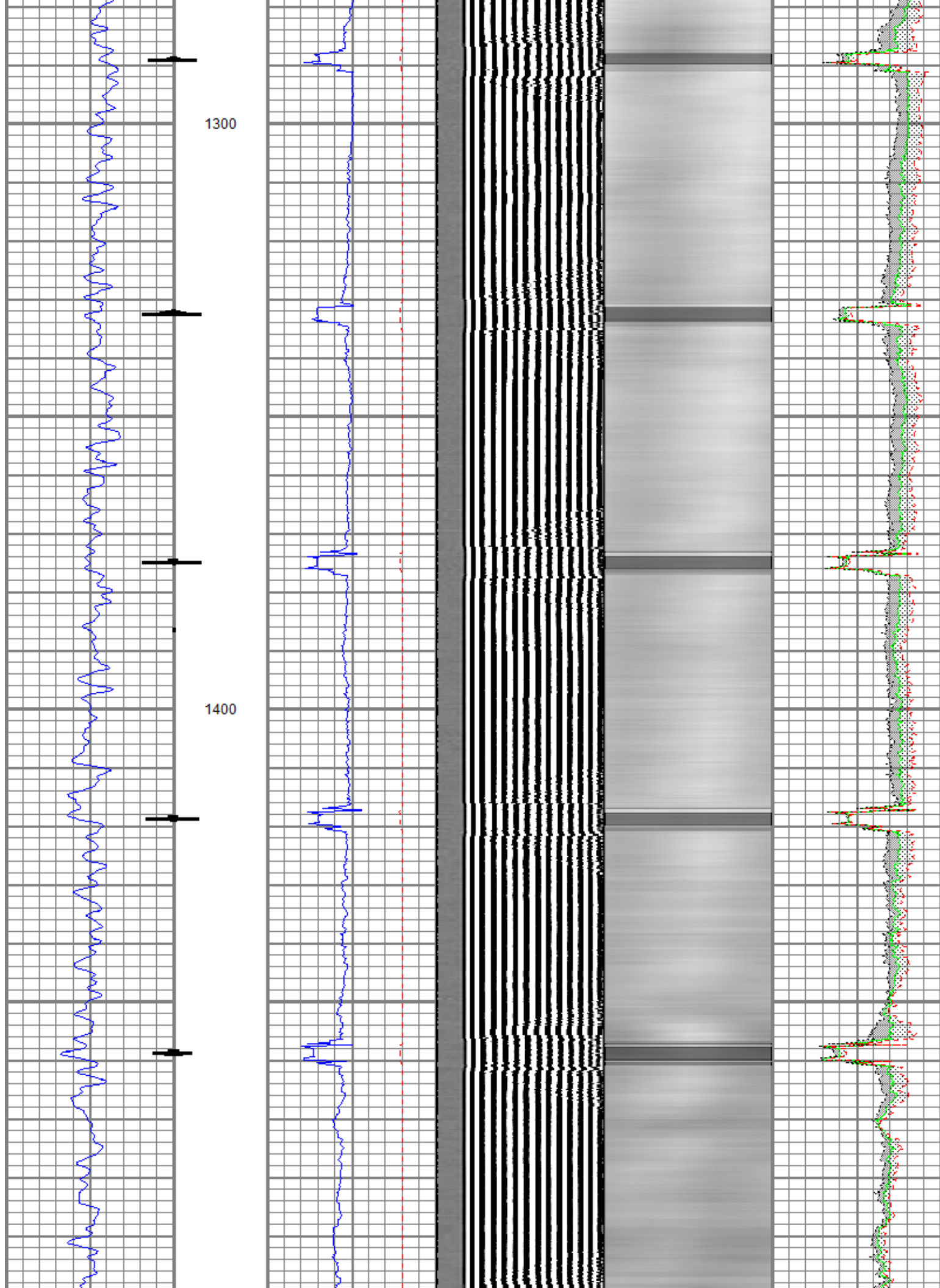


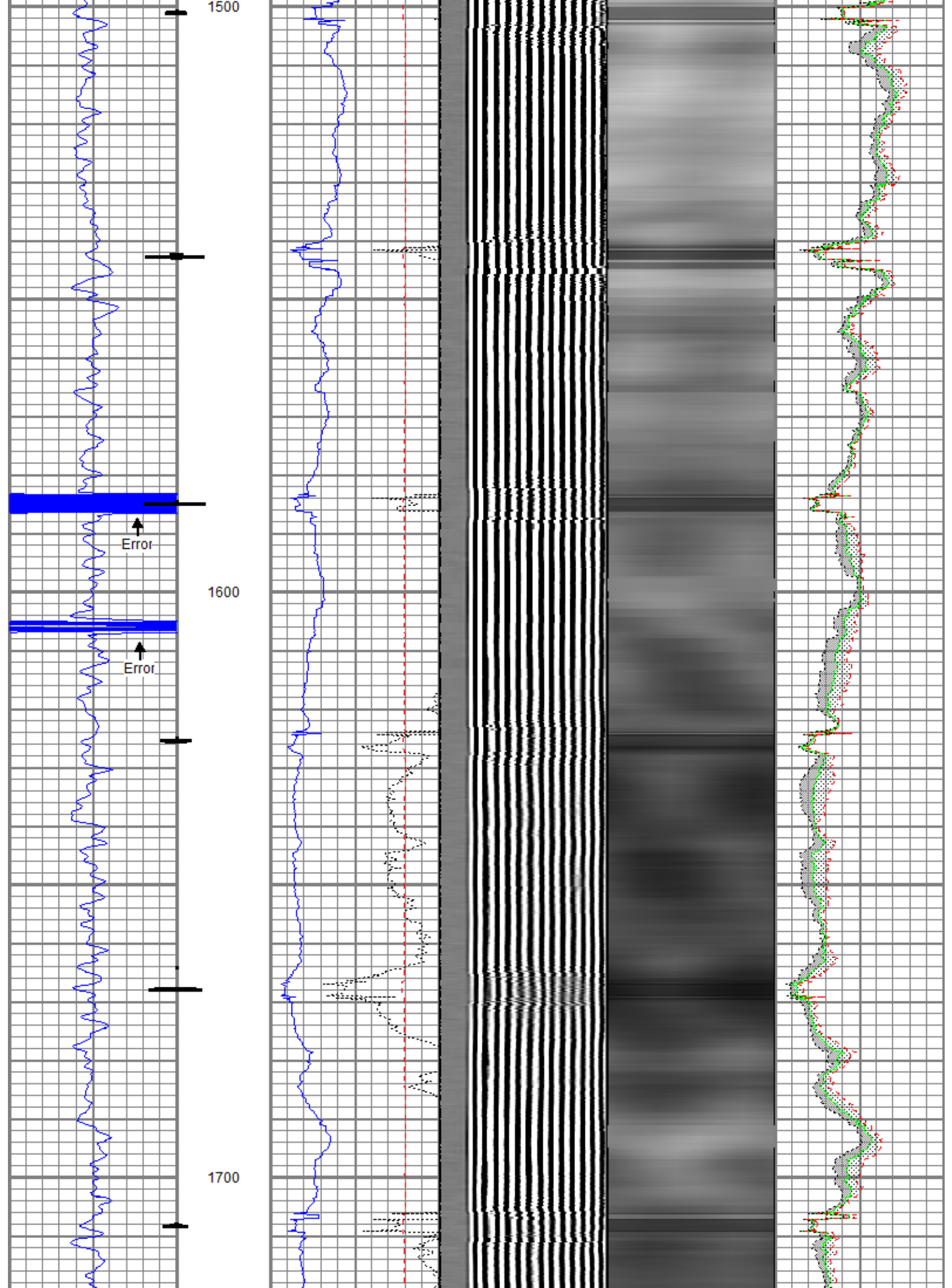


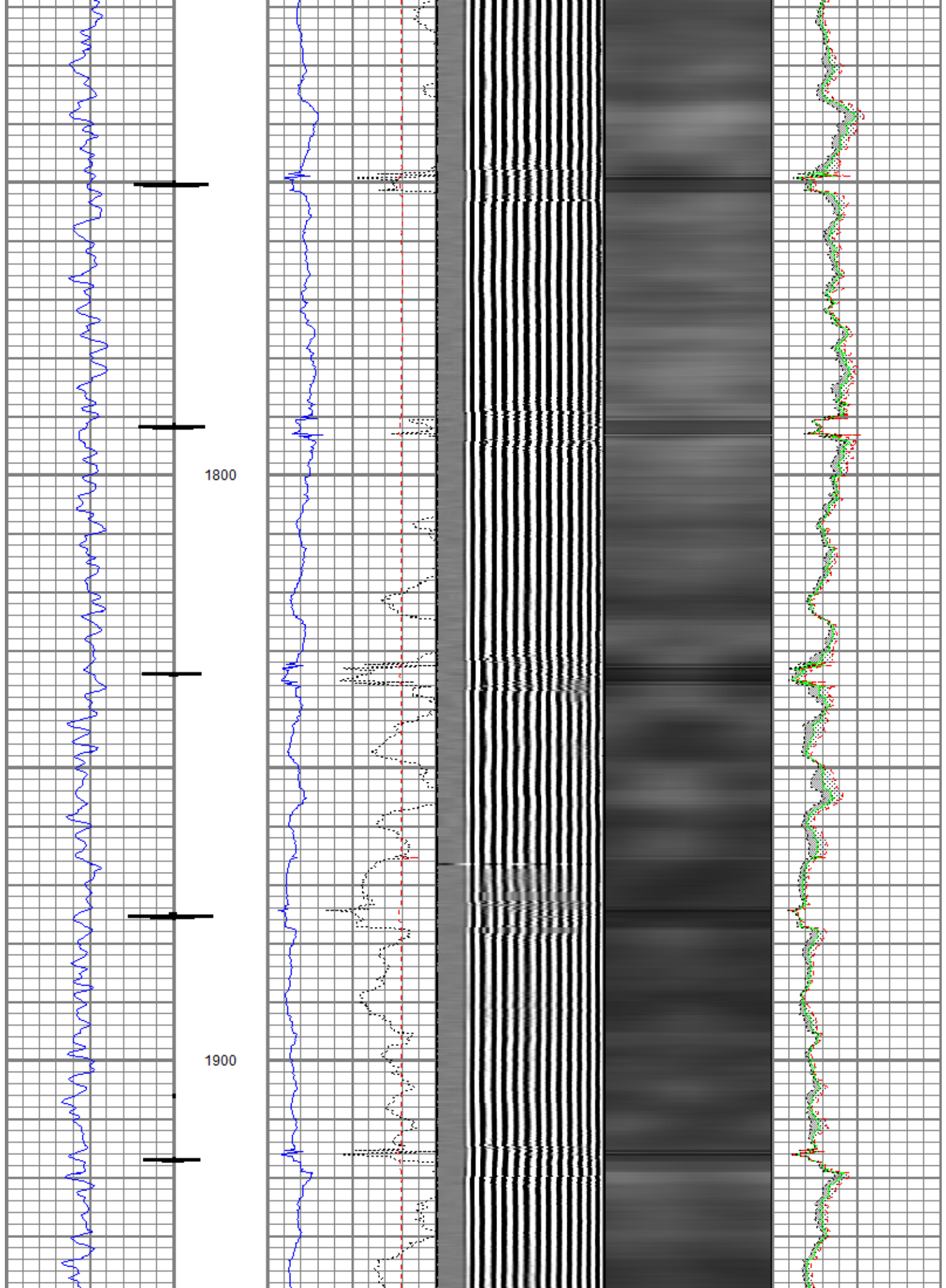


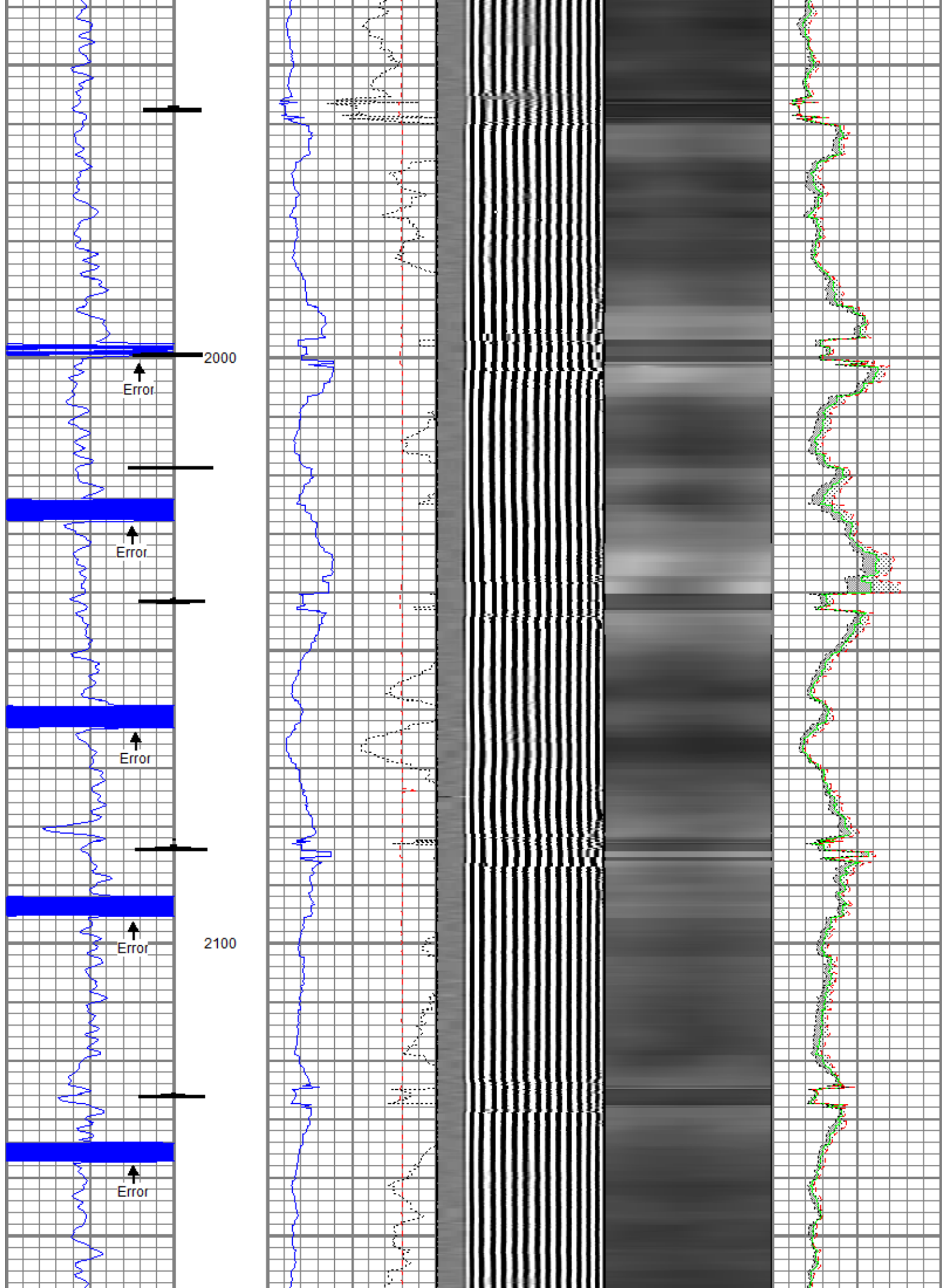




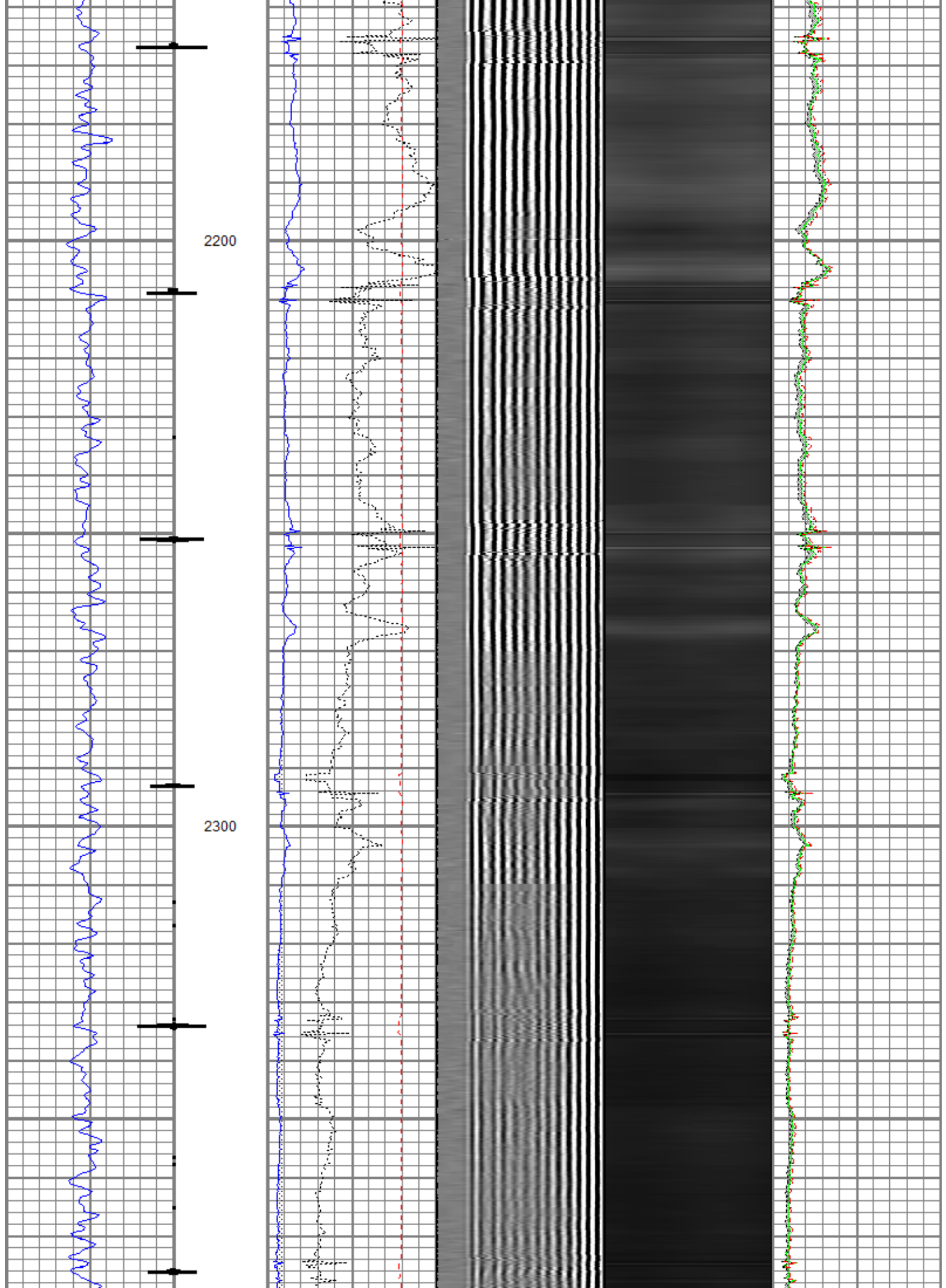


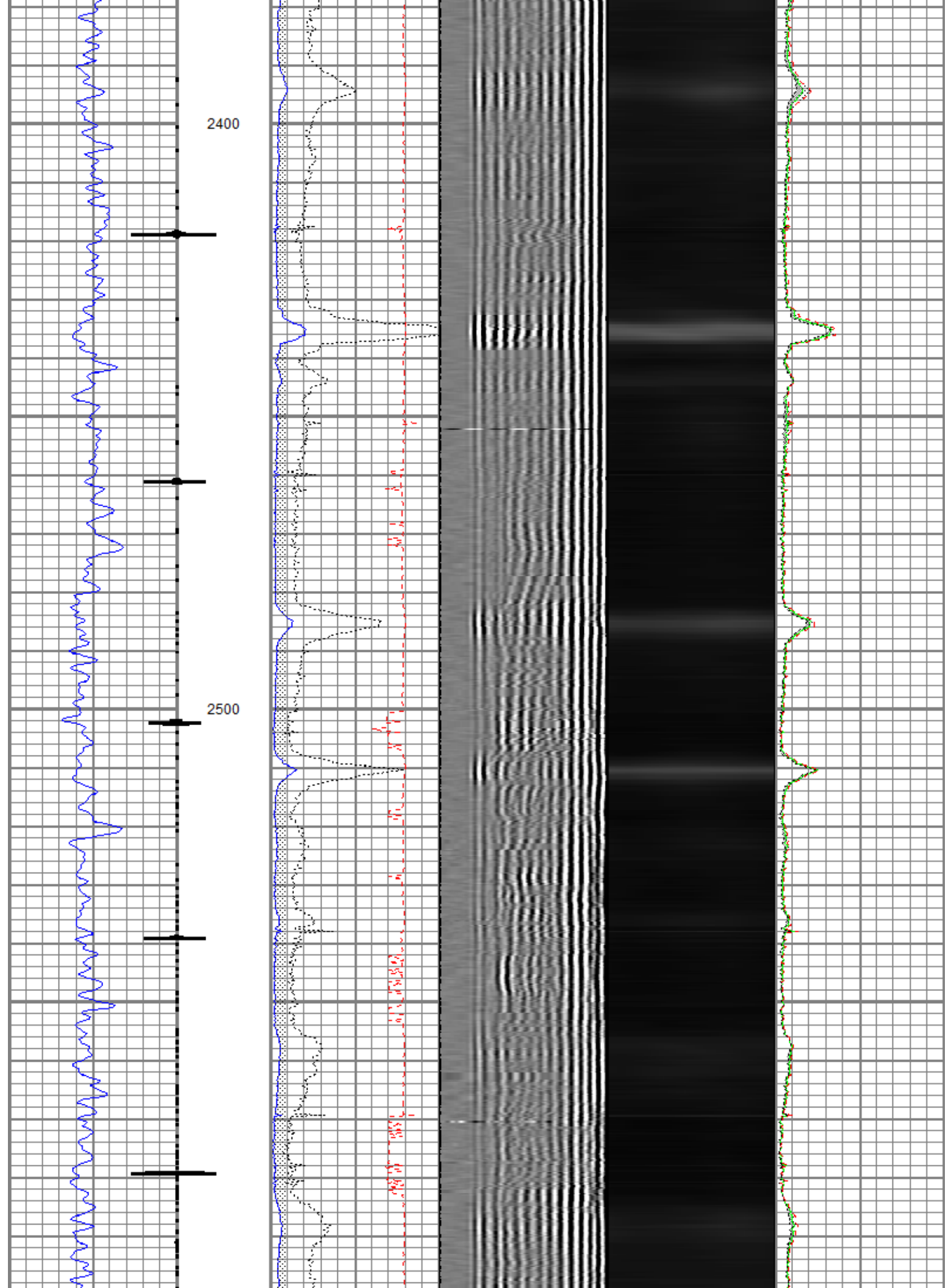


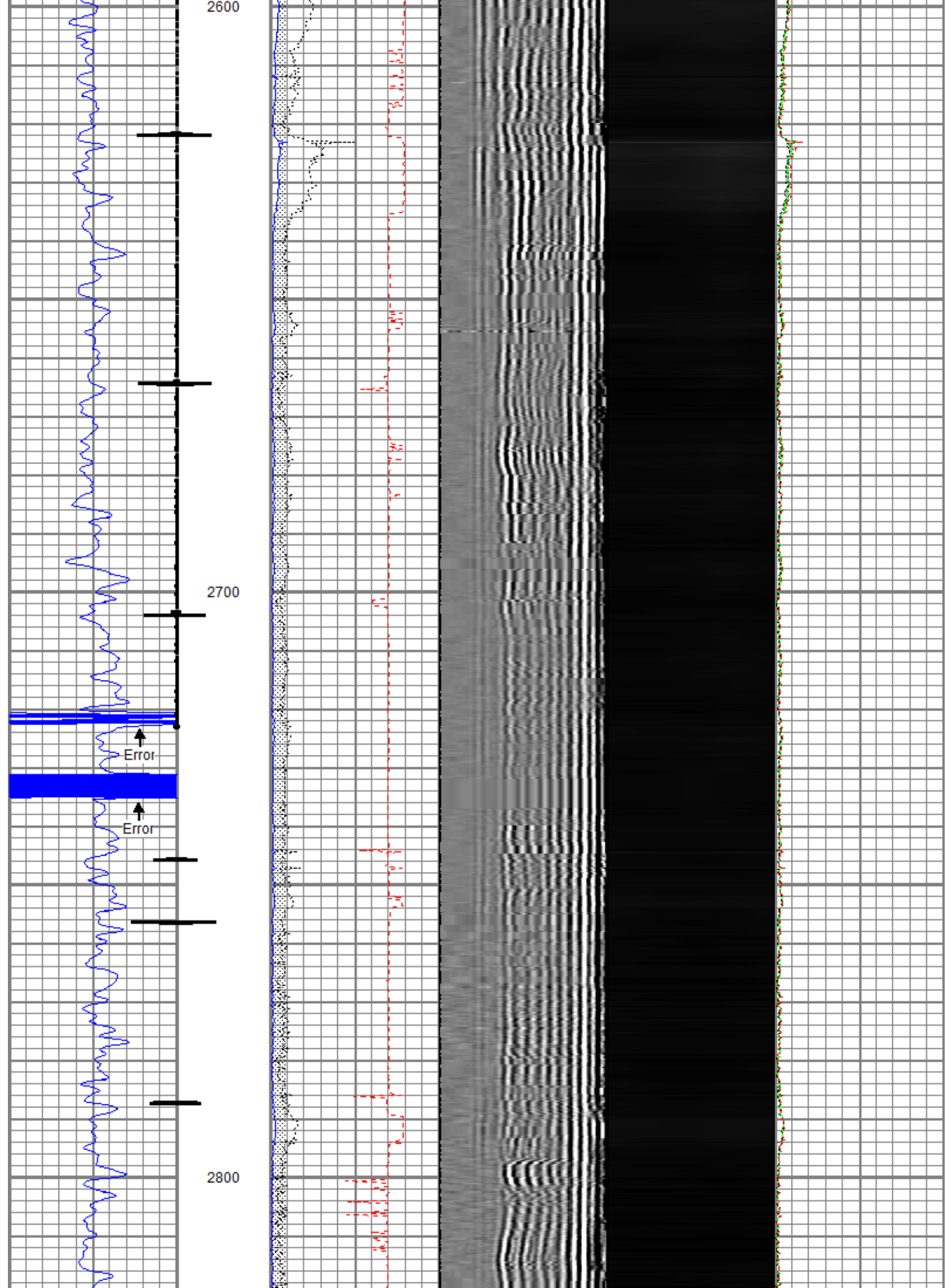


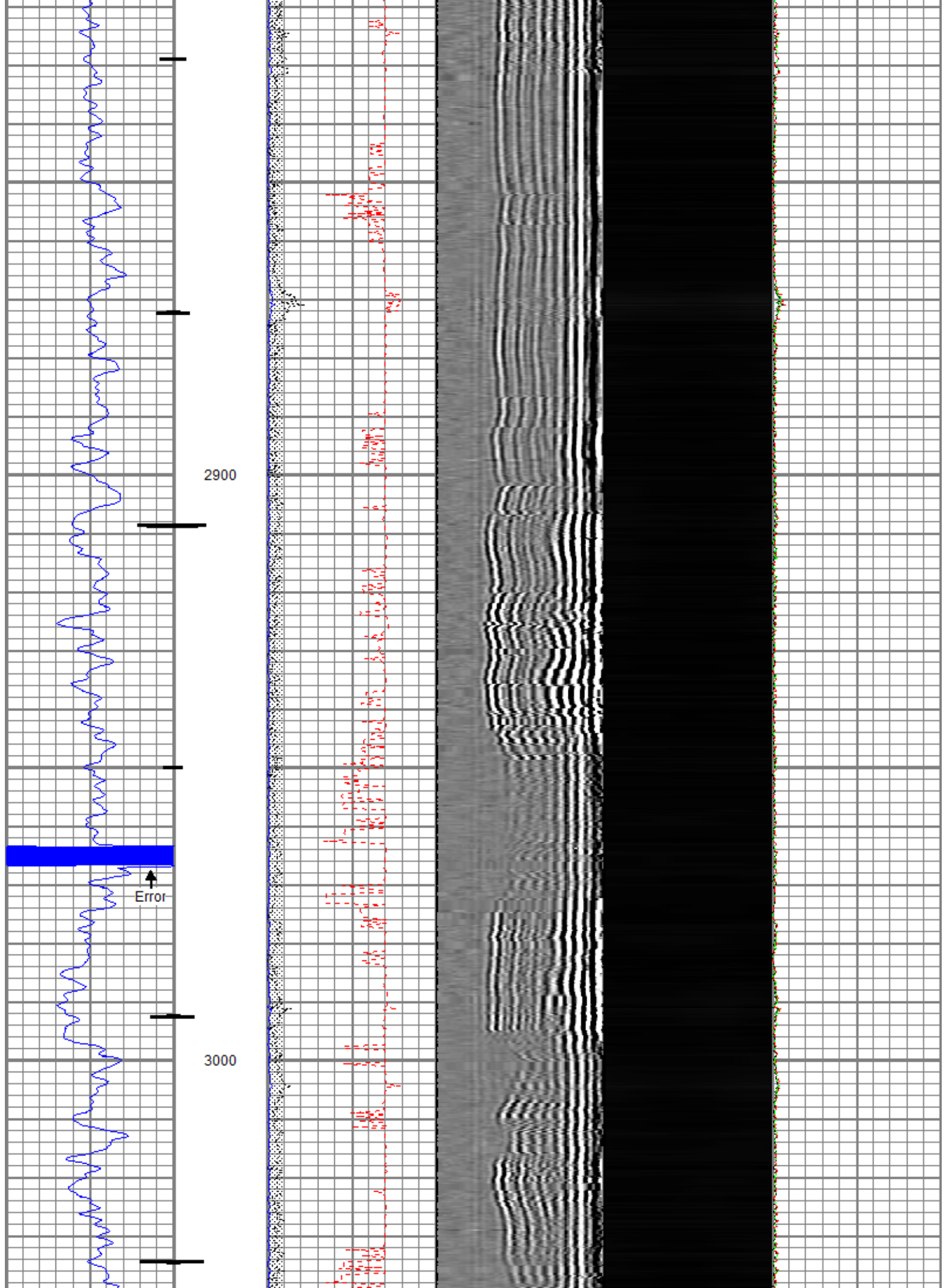




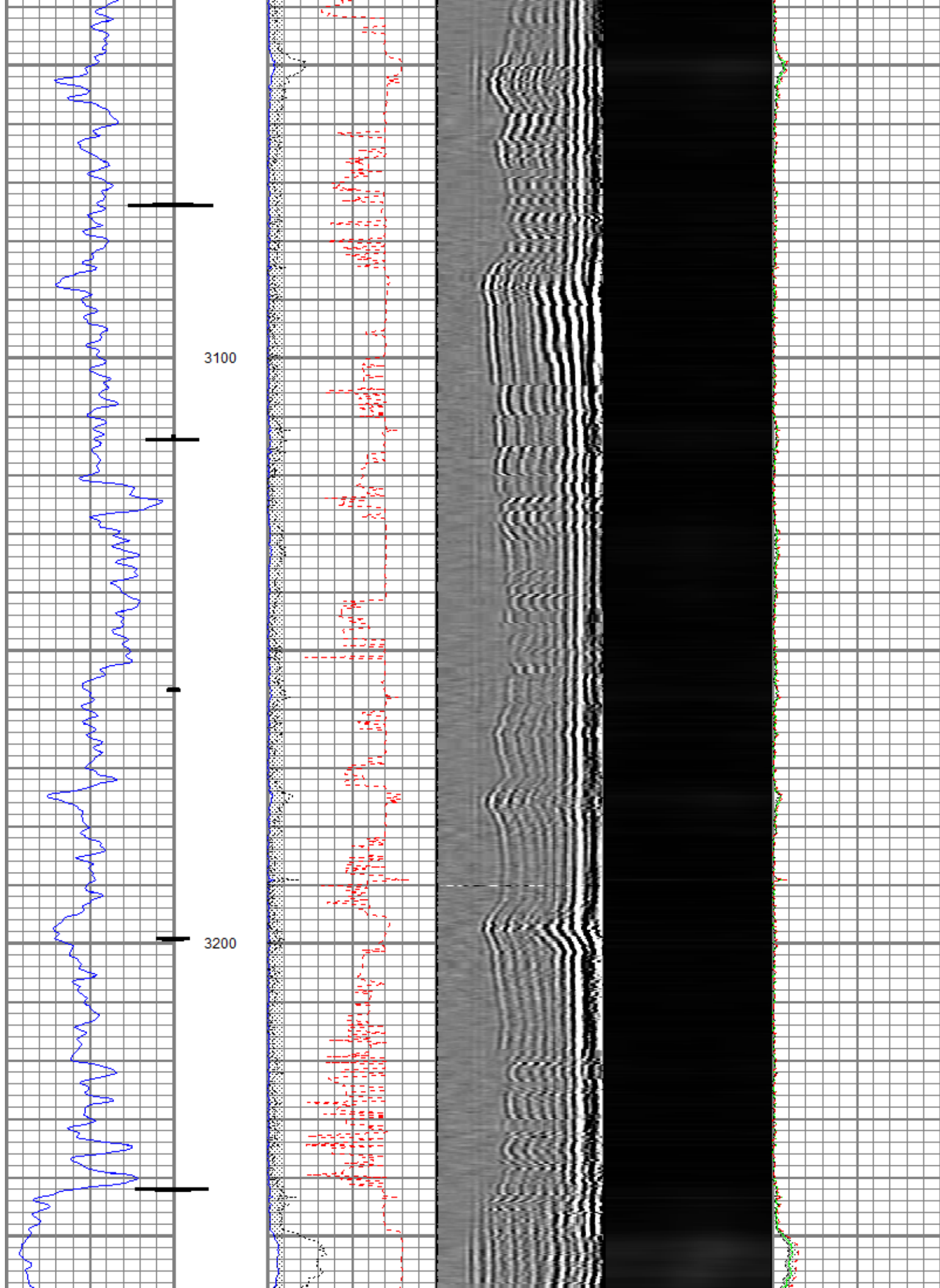


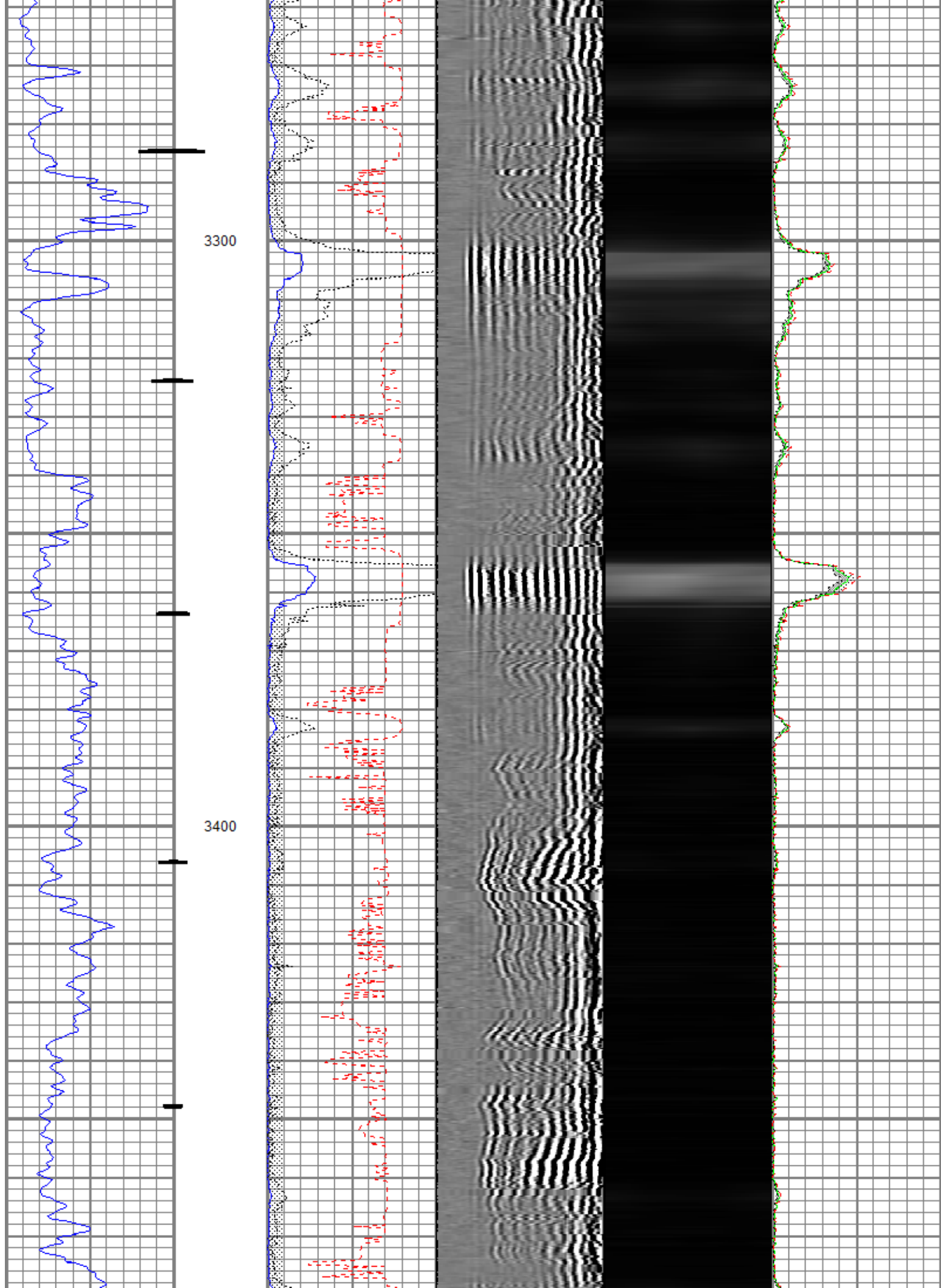


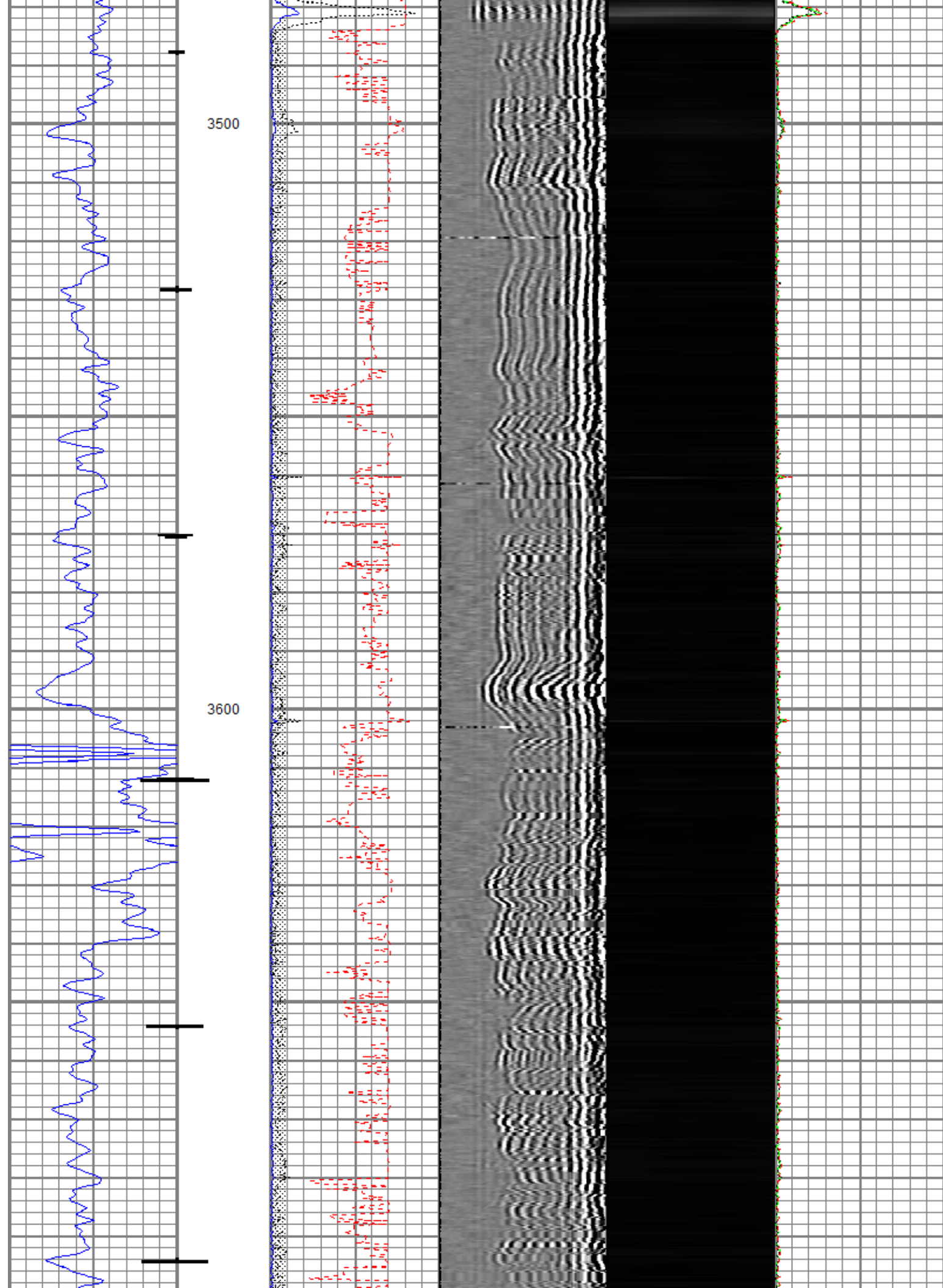




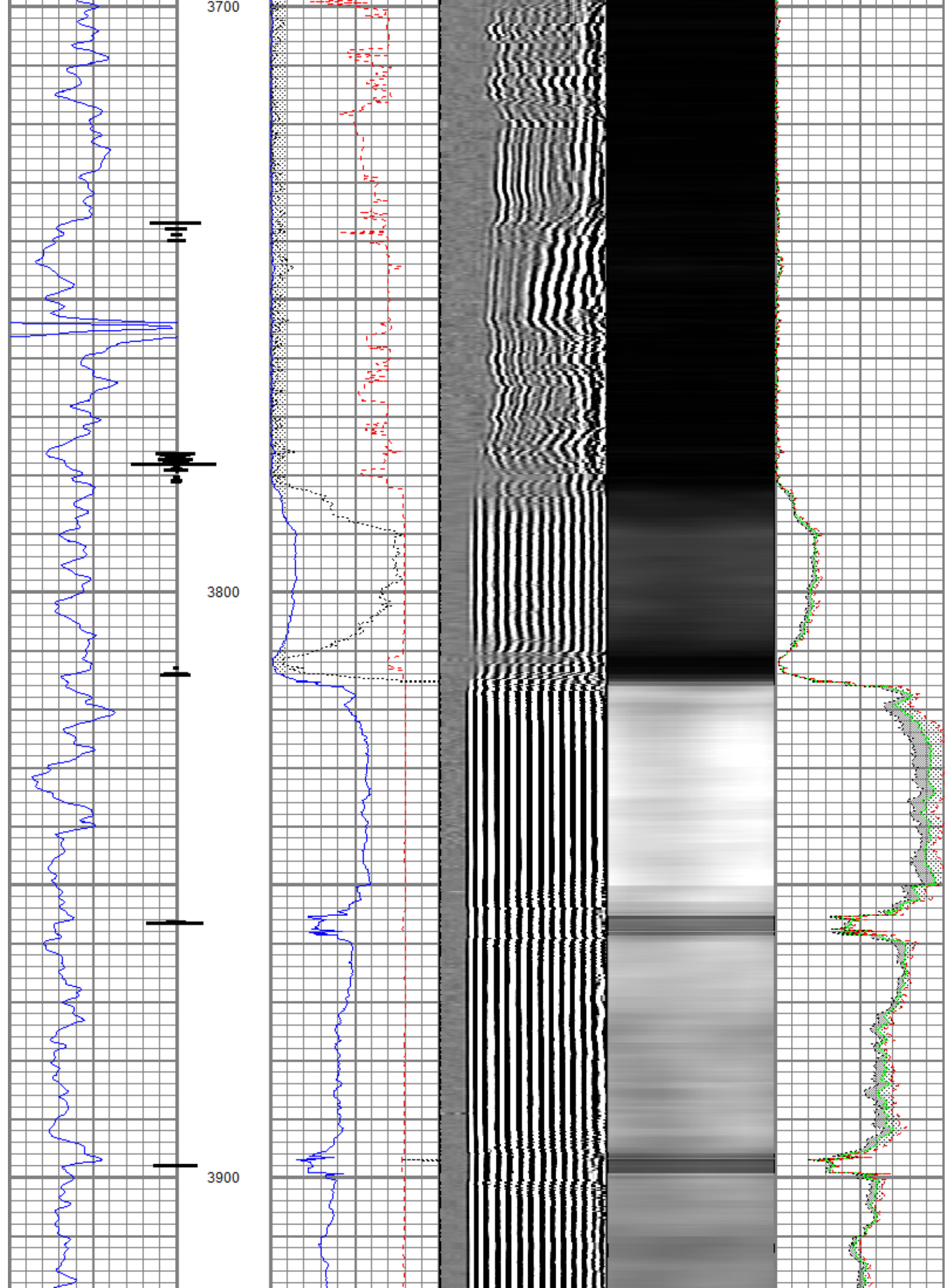




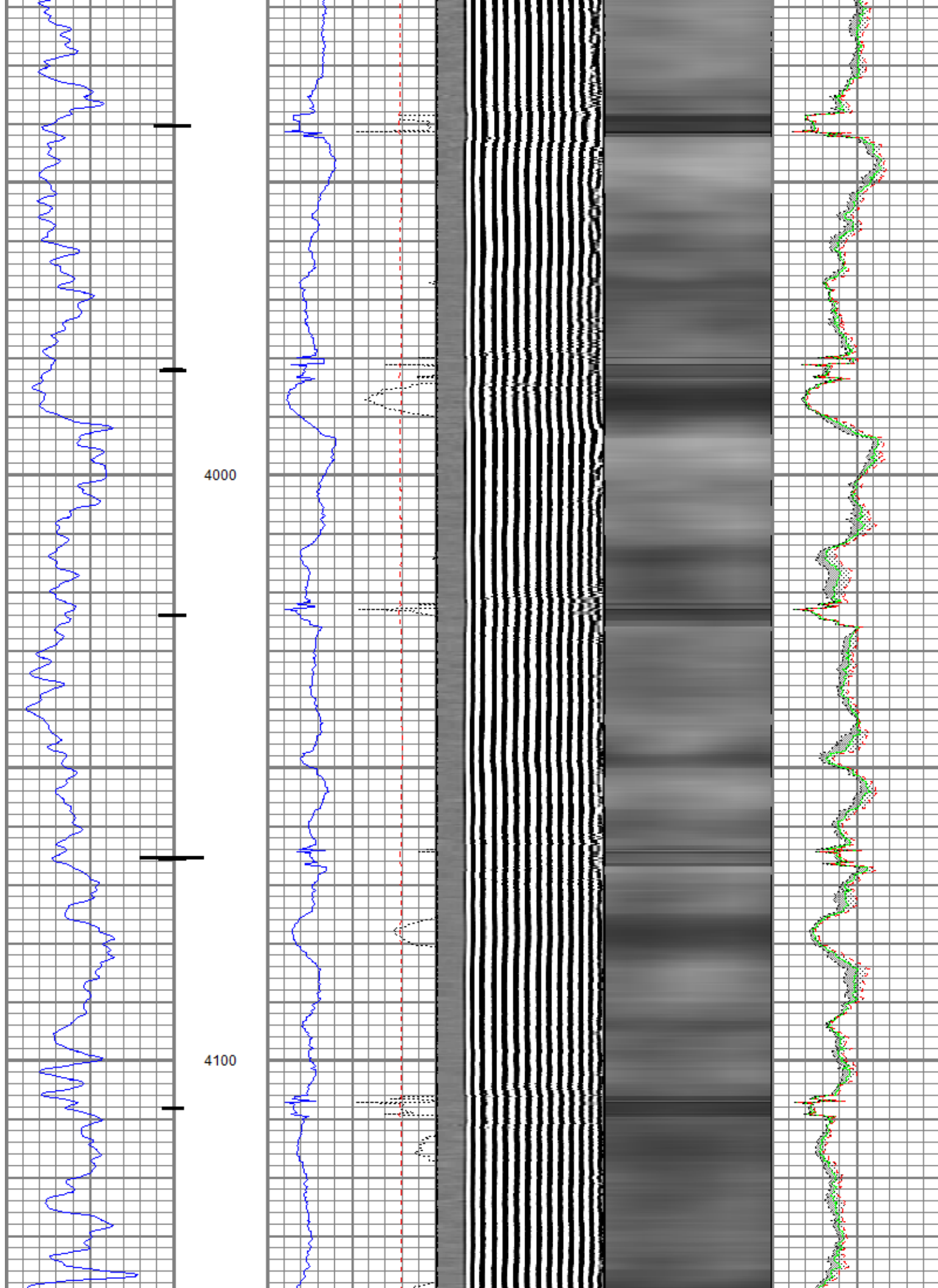


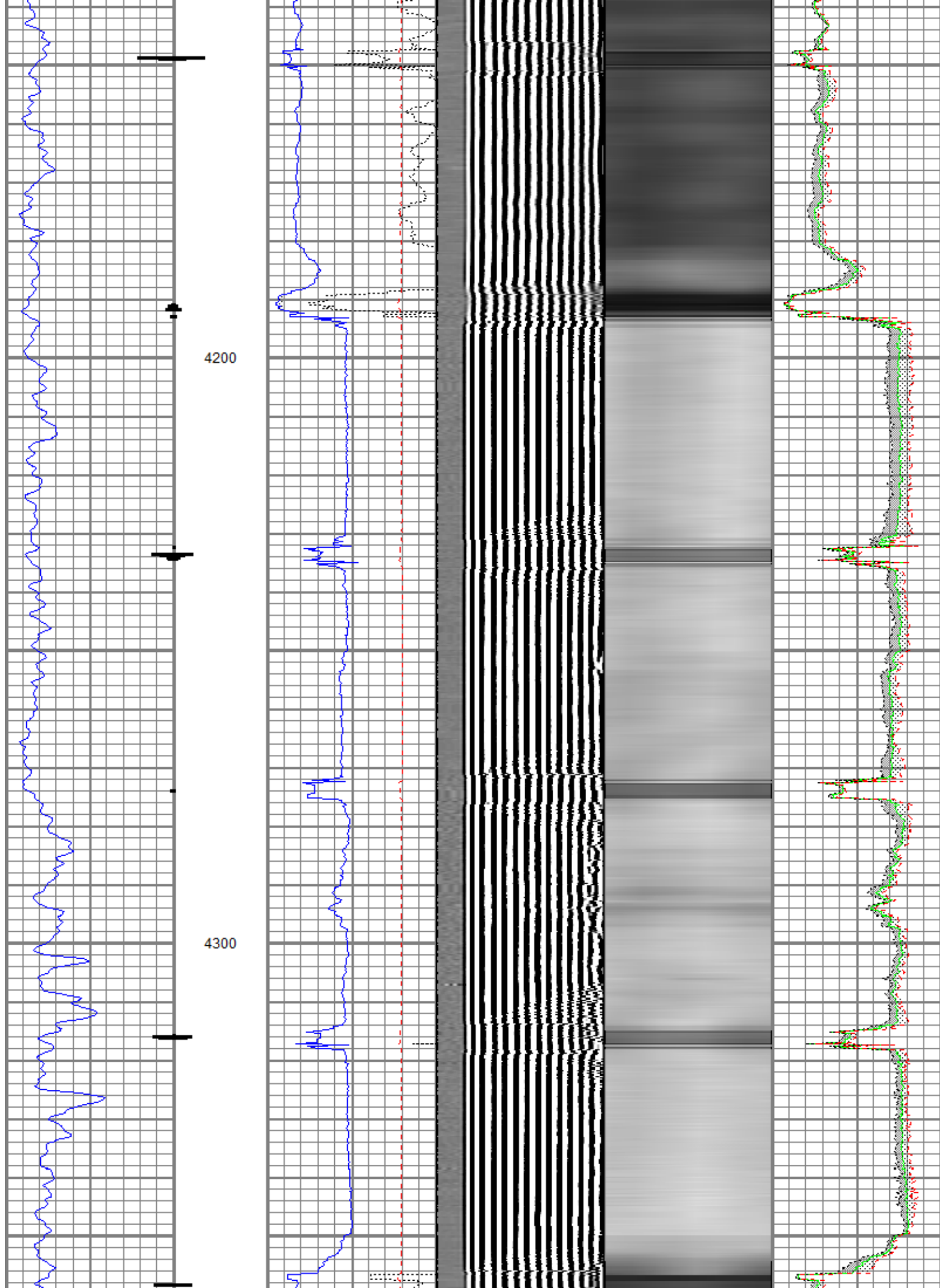


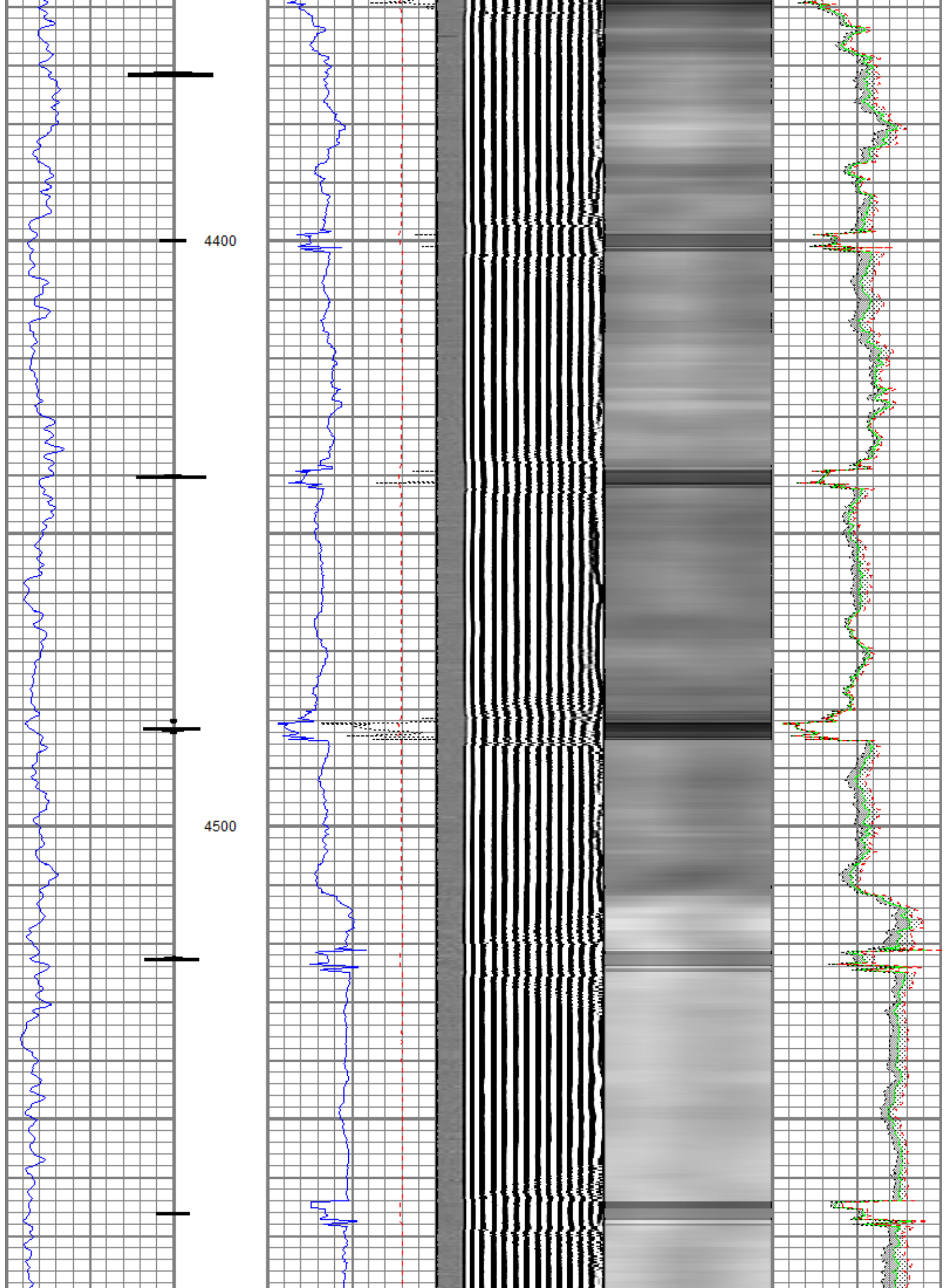


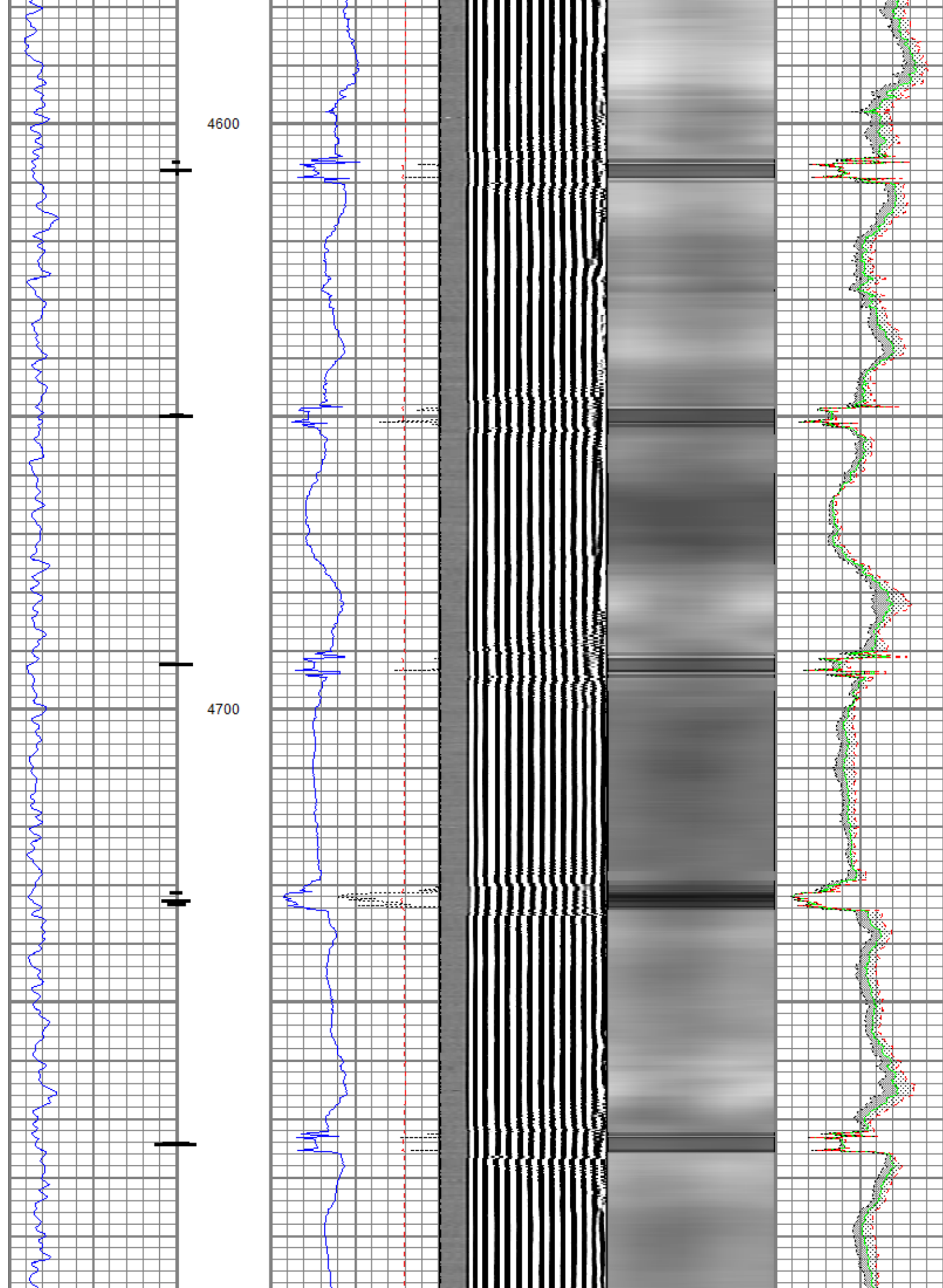




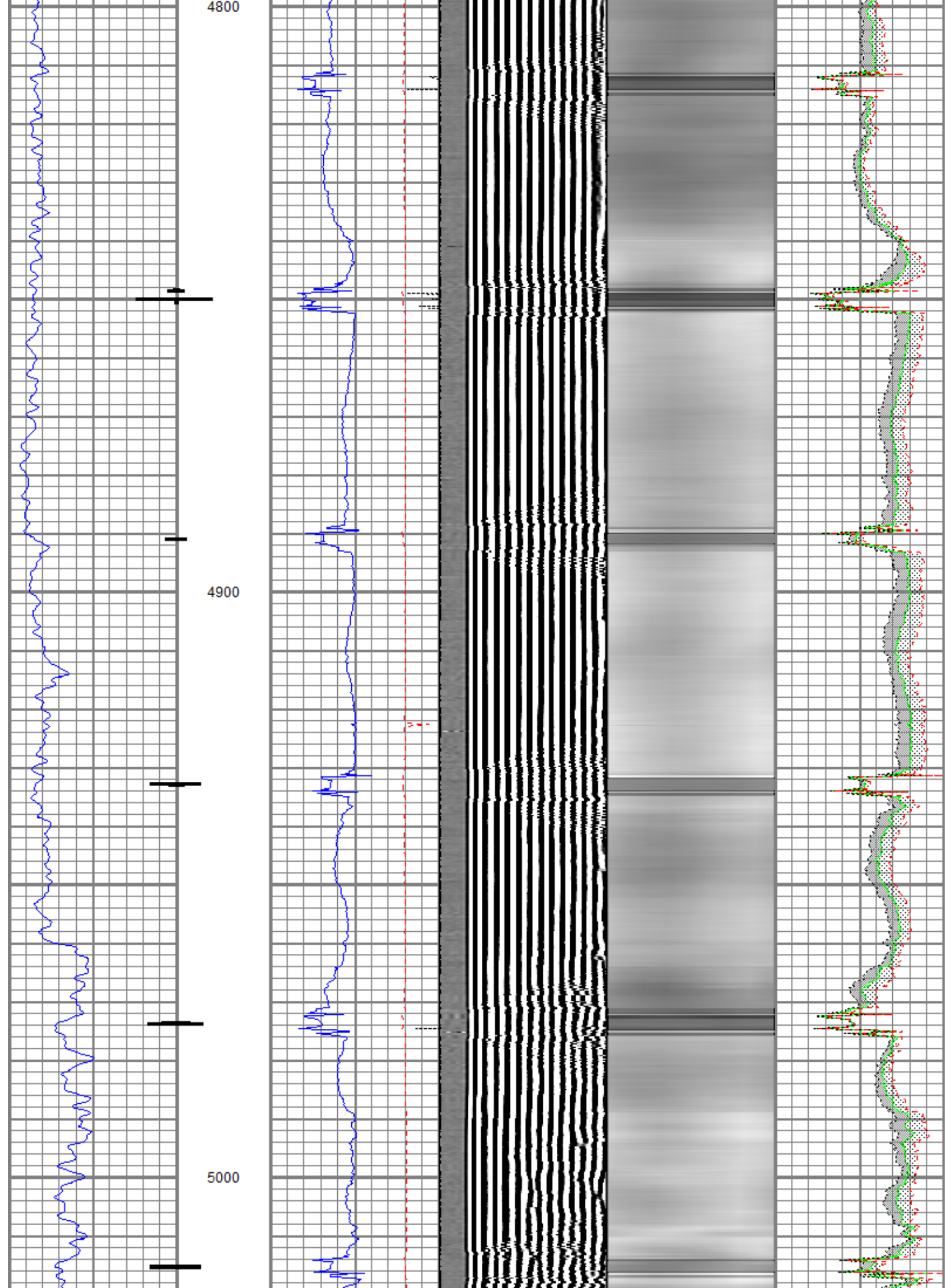


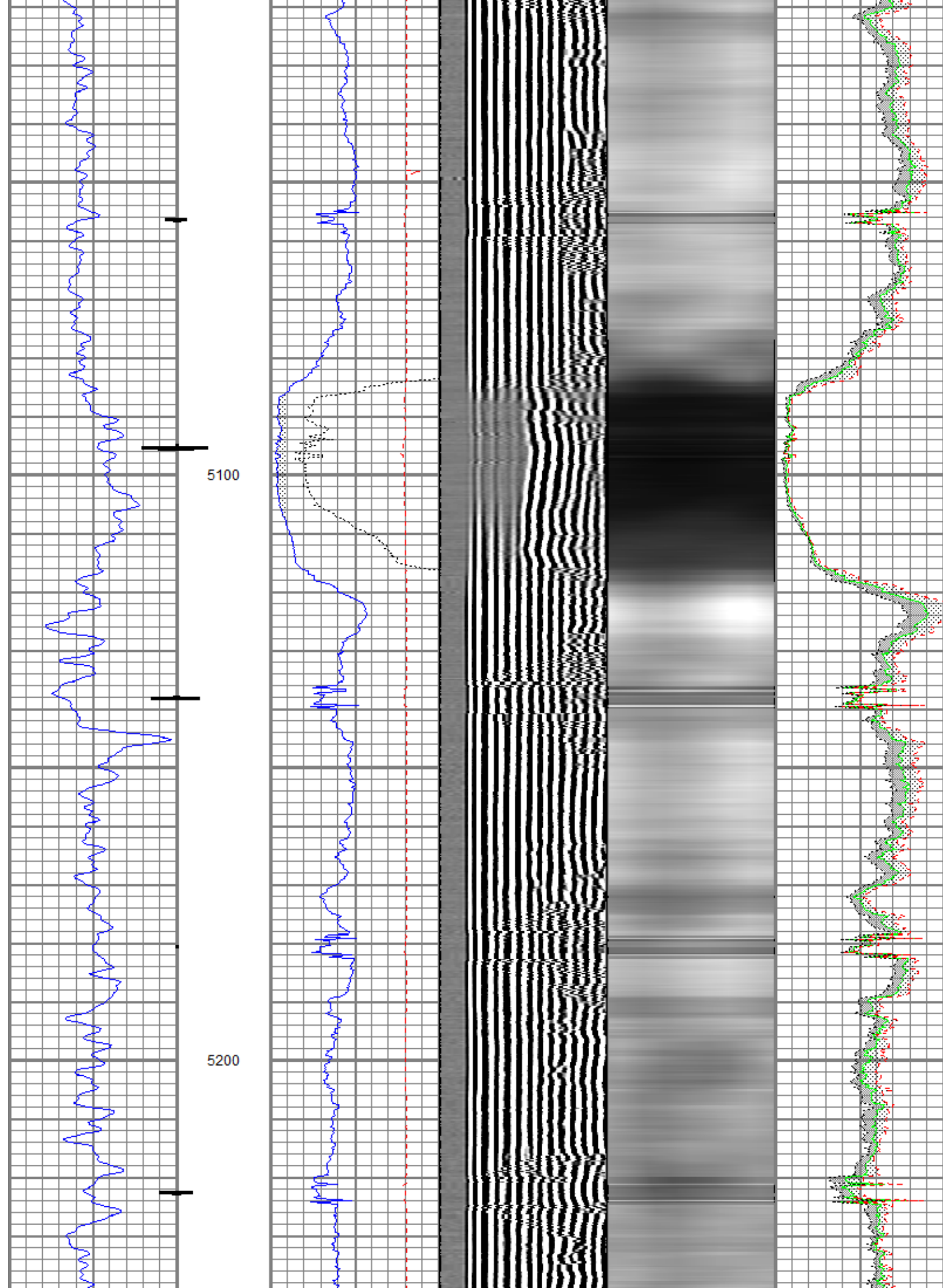


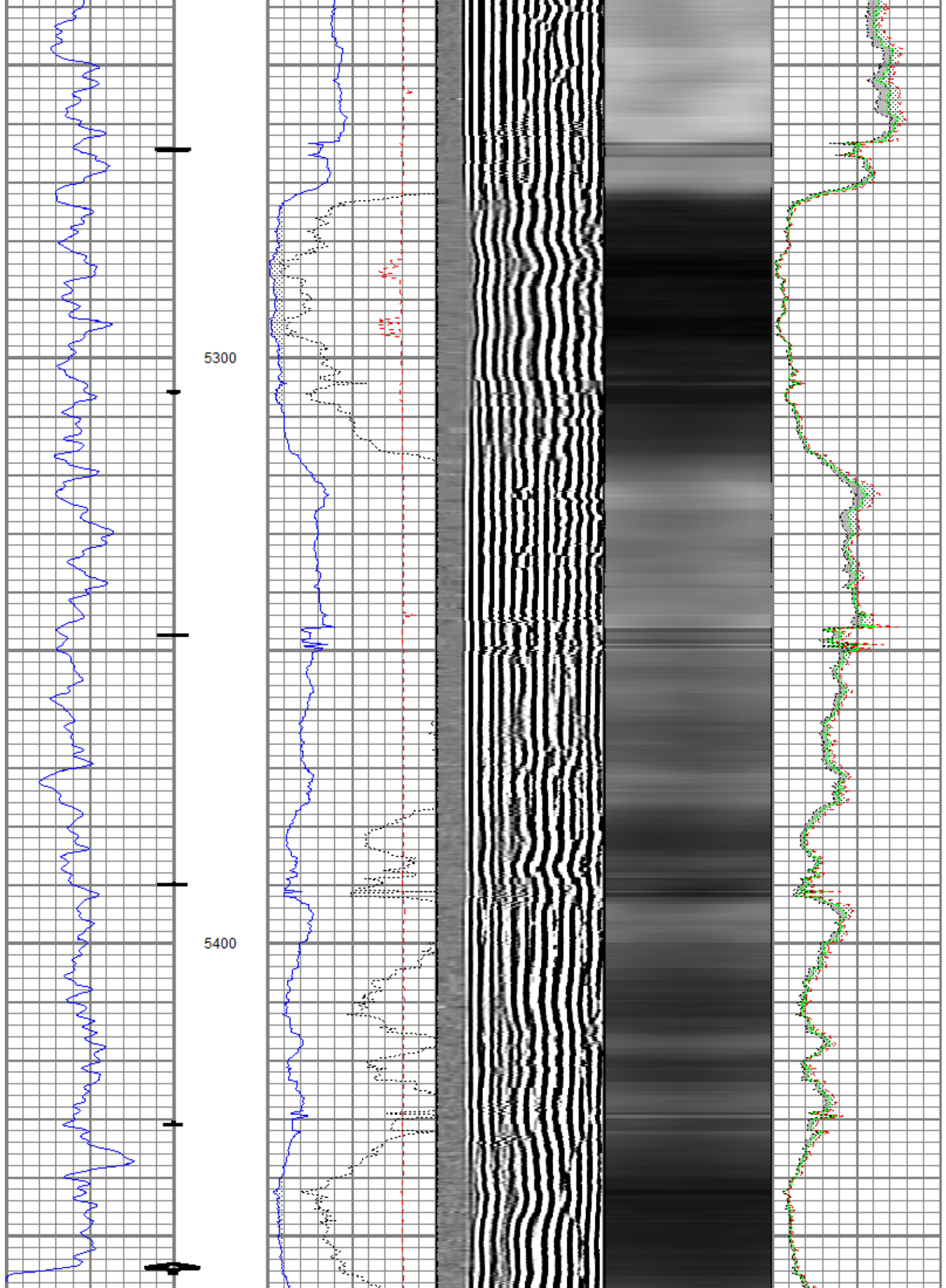


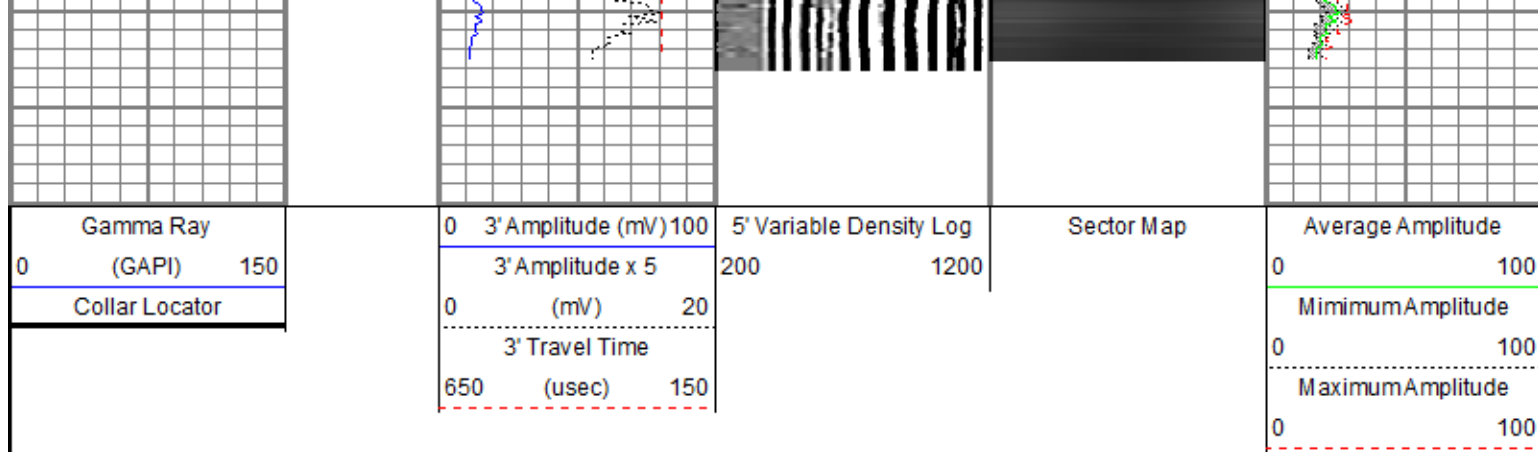








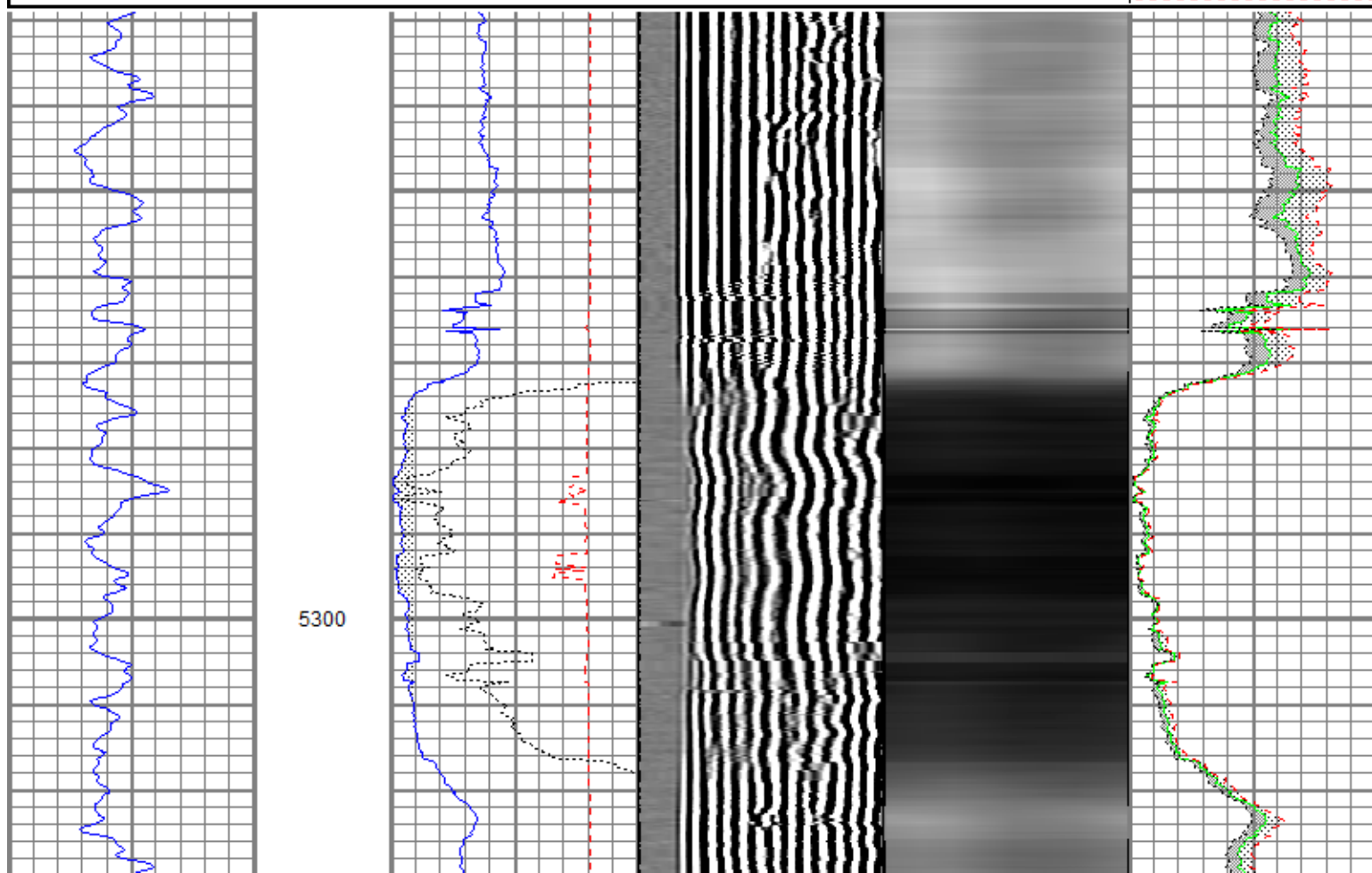
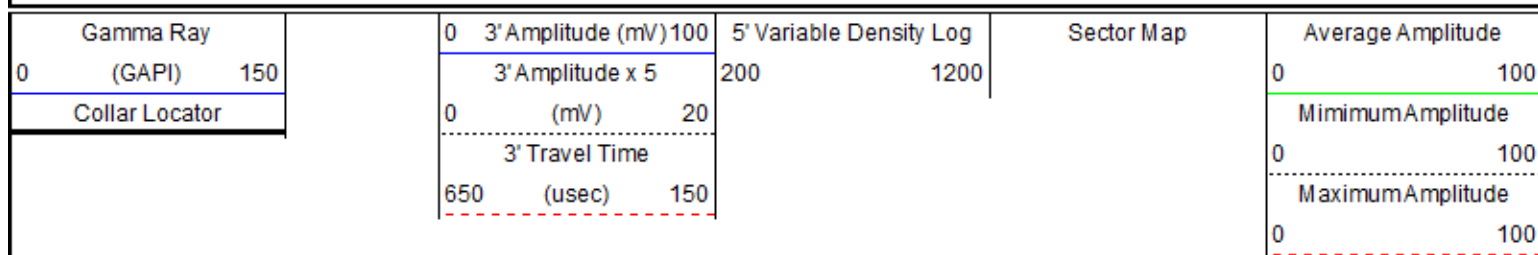




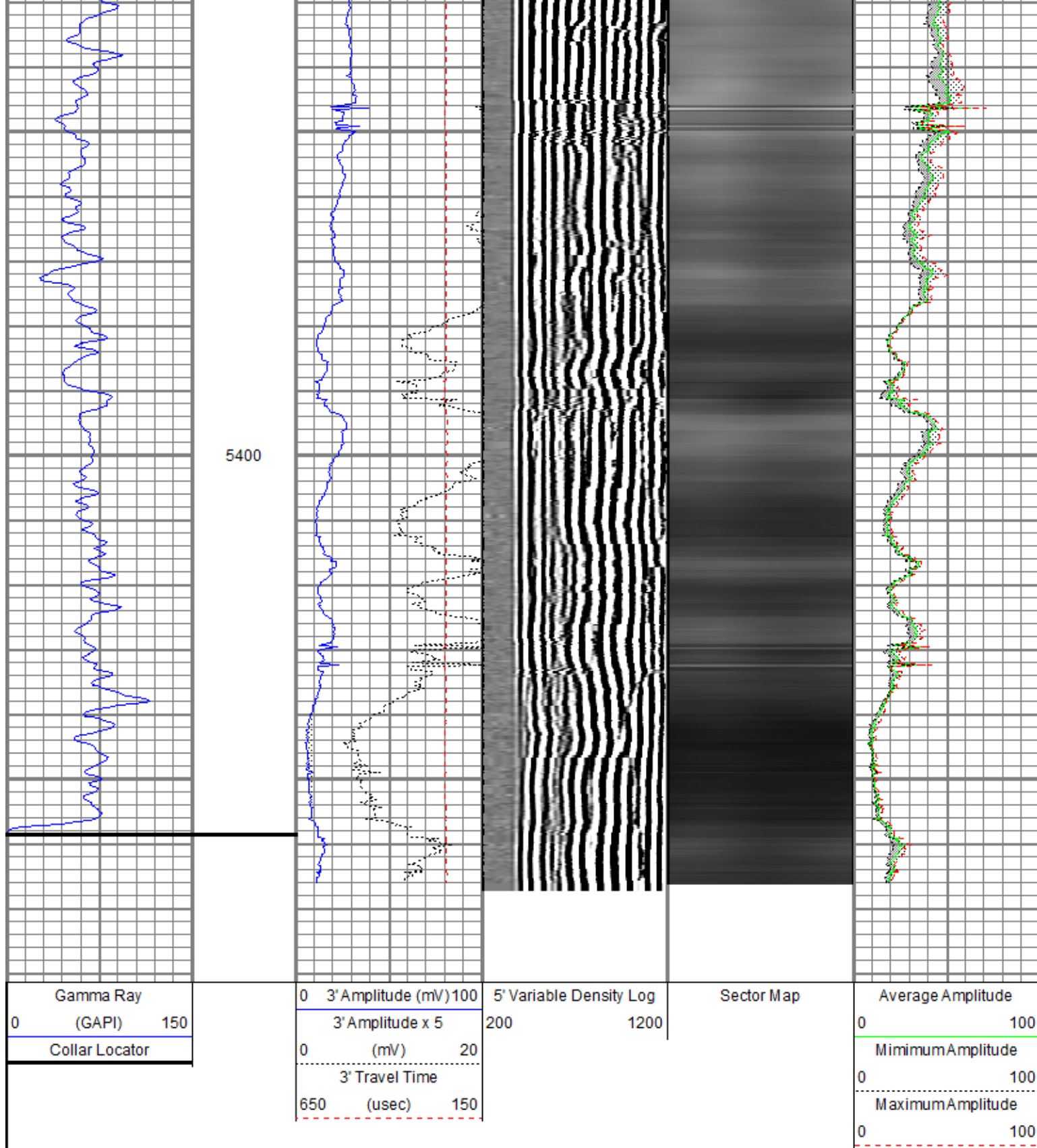
## Repeat Pass

Logged under no surface induced pressure.

Database File: riga3x.db  
 Dataset Pathname: recalr  
 Presentation Format: rbt007  
 Dataset Creation: Mon Nov 16 14:46:34 2015 by Calc 7.0 B1  
 Charted by: Depth in Feet scaled 1:240







### Calibration Report

Database File: riga3x.db  
 Dataset Pathname: merge4.1  
 Dataset Creation: Mon Nov 16 14:39:00 2015 by Calc 7.0 B1

### Multi-finger Imaging Tool Calibration Report

Serial Number: 10014703  
 Number of Fingers: 40  
 Tool Model: UW\_MIT40\_042

### Inclinometer Calibration Report

|                    |         |       |       |
|--------------------|---------|-------|-------|
| Vertical:          |         | Inc X | Inc Y |
| Finger 1 up:       |         | 1972  | 1977  |
| Finger 31 up:      |         | 1714  | 1761  |
| Finger 21 up:      |         | 2241  | 1786  |
| Finger 11 up:      |         | 2216  | 2226  |
|                    |         | 1725  | 2225  |
| Sensitivity ratio: | 1.12575 |       |       |
| X-axis angle:      | 133.782 |       |       |
| Deviation const.:  | 359.951 |       |       |

### Finger Calibration Report

Performed: Sun Nov 15 15:34:06 2015

| Ring size: | 3   |       | 4    |       | 5    |       | 6    |       | 7    |
|------------|-----|-------|------|-------|------|-------|------|-------|------|
| (in)       |     | Sens  |      | Sens  |      | Sens  |      | Sens  |      |
| Finger 01: | 822 | 278.0 | 1100 | 349.0 | 1449 | 411.0 | 1860 | 392.0 | 2252 |
| Finger 02: | 785 | 270.0 | 1055 | 351.0 | 1406 | 429.0 | 1835 | 410.0 | 2245 |
| Finger 03: | 790 | 274.0 | 1064 | 338.0 | 1402 | 421.0 | 1823 | 389.0 | 2212 |
| Finger 04: | 739 | 254.0 | 993  | 348.0 | 1341 | 442.0 | 1783 | 416.0 | 2199 |
| Finger 05: | 755 | 257.0 | 1012 | 331.0 | 1343 | 413.0 | 1756 | 382.0 | 2138 |
| Finger 06: | 742 | 267.0 | 1009 | 341.0 | 1350 | 428.0 | 1778 | 395.0 | 2173 |
| Finger 07: | 727 | 275.0 | 1002 | 342.0 | 1344 | 416.0 | 1760 | 389.0 | 2149 |
| Finger 08: | 716 | 265.0 | 981  | 338.0 | 1319 | 432.0 | 1751 | 404.0 | 2155 |
| Finger 09: | 758 | 290.0 | 1048 | 343.0 | 1391 | 422.0 | 1813 | 379.0 | 2192 |
| Finger 10: | 726 | 277.0 | 1003 | 339.0 | 1342 | 419.0 | 1761 | 383.0 | 2144 |
| Finger 11: | 706 | 281.0 | 987  | 339.0 | 1326 | 420.0 | 1746 | 388.0 | 2134 |
| Finger 12: | 776 | 294.0 | 1070 | 339.0 | 1409 | 392.0 | 1801 | 359.0 | 2160 |
| Finger 13: | 737 | 284.0 | 1021 | 335.0 | 1356 | 401.0 | 1757 | 393.0 | 2150 |
| Finger 14: | 704 | 298.0 | 1002 | 351.0 | 1353 | 412.0 | 1765 | 407.0 | 2172 |
| Finger 15: | 674 | 292.0 | 966  | 350.0 | 1316 | 410.0 | 1726 | 415.0 | 2141 |
| Finger 16: | 718 | 306.0 | 1024 | 345.0 | 1369 | 391.0 | 1760 | 406.0 | 2166 |
| Finger 17: | 759 | 307.0 | 1066 | 345.0 | 1411 | 374.0 | 1785 | 392.0 | 2177 |
| Finger 18: | 783 | 323.0 | 1106 | 346.0 | 1452 | 370.0 | 1822 | 396.0 | 2218 |
| Finger 19: | 749 | 324.0 | 1073 | 356.0 | 1429 | 375.0 | 1804 | 411.0 | 2215 |
| Finger 20: | 690 | 308.0 | 998  | 355.0 | 1353 | 380.0 | 1733 | 430.0 | 2163 |
| Finger 21: | 775 | 328.0 | 1103 | 353.0 | 1456 | 363.0 | 1819 | 418.0 | 2237 |
| Finger 22: | 759 | 333.0 | 1092 | 362.0 | 1454 | 364.0 | 1818 | 425.0 | 2243 |
| Finger 23: | 799 | 341.0 | 1140 | 365.0 | 1505 | 360.0 | 1865 | 428.0 | 2293 |
| Finger 24: | 812 | 302.0 | 1114 | 335.0 | 1449 | 331.0 | 1780 | 404.0 | 2184 |
| Finger 25: | 800 | 333.0 | 1133 | 370.0 | 1503 | 363.0 | 1866 | 436.0 | 2302 |
| Finger 26: | 780 | 314.0 | 1094 | 355.0 | 1449 | 354.0 | 1803 | 438.0 | 2241 |
| Finger 27: | 934 | 355.0 | 1289 | 377.0 | 1666 | 359.0 | 2025 | 429.0 | 2454 |
| Finger 28: | 837 | 310.0 | 1147 | 348.0 | 1495 | 347.0 | 1842 | 431.0 | 2273 |
| Finger 29: | 791 | 305.0 | 1096 | 362.0 | 1458 | 363.0 | 1821 | 446.0 | 2267 |
| Finger 30: | 788 | 296.0 | 1084 | 361.0 | 1445 | 371.0 | 1816 | 453.0 | 2269 |
| Finger 31: | 967 | 343.0 | 1310 | 387.0 | 1697 | 381.0 | 2078 | 445.0 | 2523 |
| Finger 32: | 777 | 295.0 | 1072 | 355.0 | 1427 | 363.0 | 1790 | 429.0 | 2219 |
| Finger 33: | 857 | 316.0 | 1173 | 380.0 | 1553 | 394.0 | 1947 | 455.0 | 2402 |
| Finger 34: | 759 | 277.0 | 1036 | 353.0 | 1389 | 381.0 | 1770 | 436.0 | 2206 |
| Finger 35: | 893 | 306.0 | 1199 | 378.0 | 1577 | 405.0 | 1982 | 440.0 | 2422 |
| Finger 36: | 833 | 269.0 | 1102 | 340.0 | 1442 | 375.0 | 1817 | 407.0 | 2224 |
| Finger 37: | 873 | 300.0 | 1173 | 374.0 | 1547 | 412.0 | 1959 | 434.0 | 2393 |
| Finger 38: | 853 | 274.0 | 1127 | 346.0 | 1473 | 390.0 | 1863 | 407.0 | 2270 |
| Finger 39: | 849 | 264.0 | 1113 | 335.0 | 1448 | 382.0 | 1830 | 394.0 | 2224 |
| Finger 40: | 750 | 265.0 | 1015 | 360.0 | 1375 | 432.0 | 1807 | 439.0 | 2246 |

### Segmented Cement Bond Log Calibration Report

|                              |            |
|------------------------------|------------|
| Serial Number:               | 10012639   |
| Tool Model:                  | UW_RBT_004 |
| Calibration Casing Diameter: | 7.000 in   |
| Calibration Depth:           | 405.120 ft |

Master Calibration, performed Mon Nov 16 08:38:40 2015:

| Raw (v) |     | Calibrated (mv) |     | Results |        |
|---------|-----|-----------------|-----|---------|--------|
| Zero    | Cal | Zero            | Cal | Gain    | Offset |

|     | Zero  | Gain  | Zero  | Gain    | Offset |
|-----|-------|-------|-------|---------|--------|
| 3FT | 0.000 | 1.100 | 0.000 | 62.165  | 56.514 |
| 5FT | 0.000 | 1.100 | 0.000 | 62.165  | 56.514 |
| S1  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S2  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S3  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S4  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S5  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S6  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S7  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |
| S8  | 0.000 | 1.100 | 0.000 | 100.000 | 90.909 |

| Gamma Ray Calibration Report |                          |          |
|------------------------------|--------------------------|----------|
| Serial Number:               | 10019371                 |          |
| Tool Model:                  | UW_PGR_020               |          |
| Performed:                   | Sun Jun 13 13:33:21 1993 |          |
| Calibrator Value:            | 1.0                      | GAPI     |
| Background Reading:          | 0.0                      | cps      |
| Calibrator Reading:          | 1.0                      | cps      |
| Sensitivity:                 | 1.0000                   | GAPI/cps |

|  |         |                         |             |
|--|---------|-------------------------|-------------|
|  | Company | Chevron USA, Inc.       |             |
|  | Well    | Rigby A 3X              |             |
|  | Field   | Weber Rangely Sand Unit |             |
|  | County  | Rio Blanco              |             |
|  | State   | Colorado                | Country USA |