



<<< Fold Here >>>

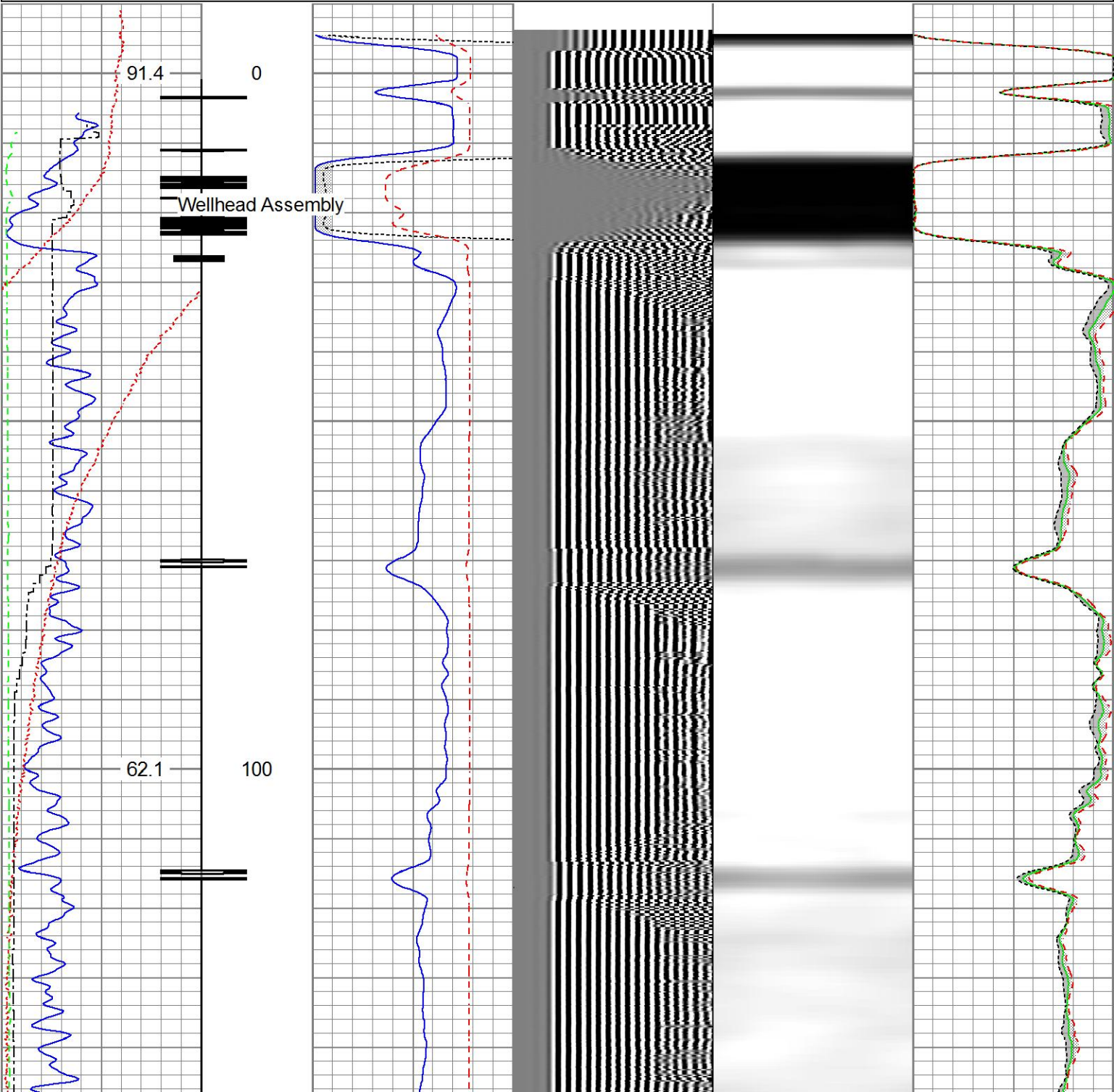
Comments

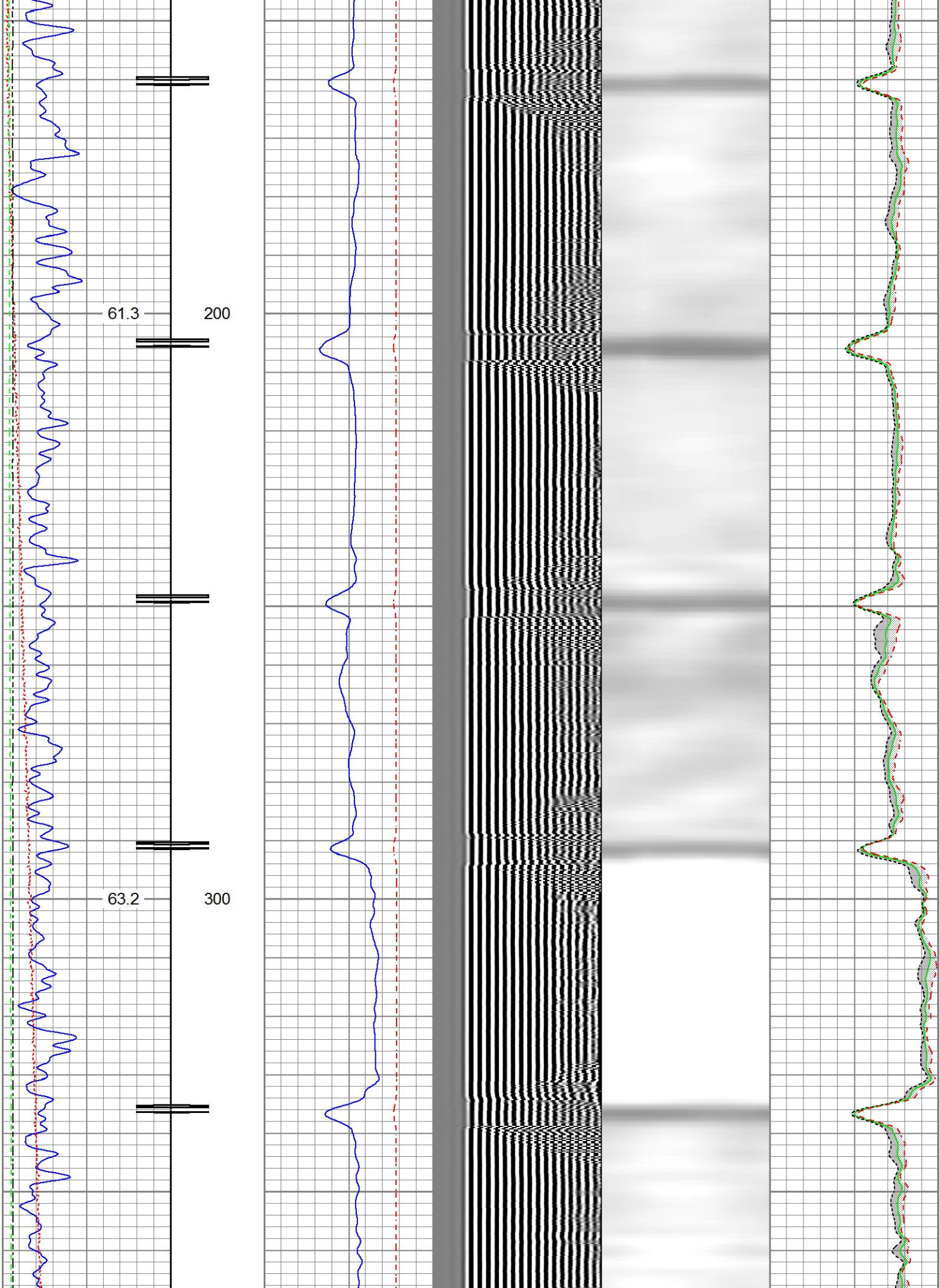


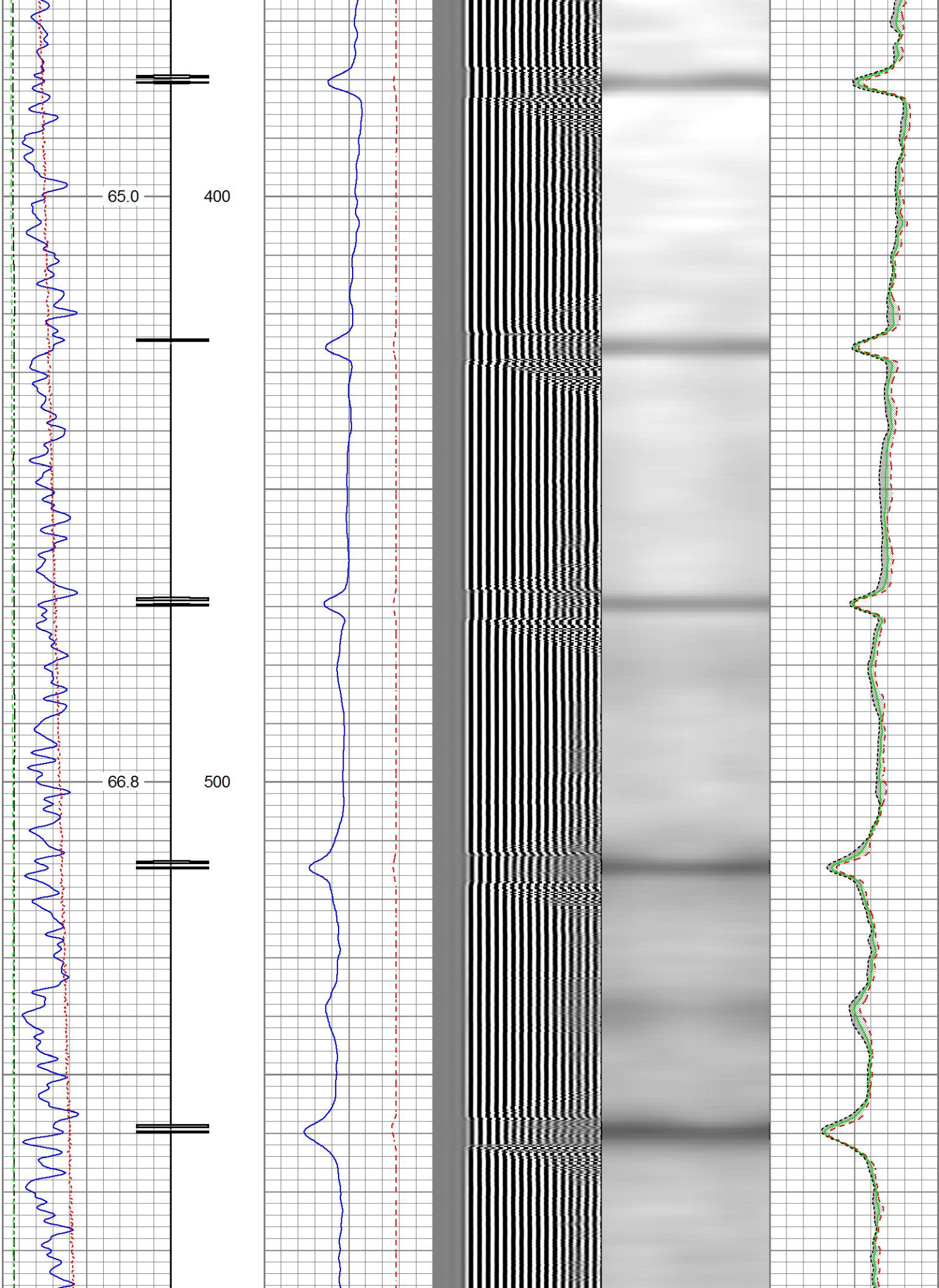
RELIANCE
OILFIELD SERVICES

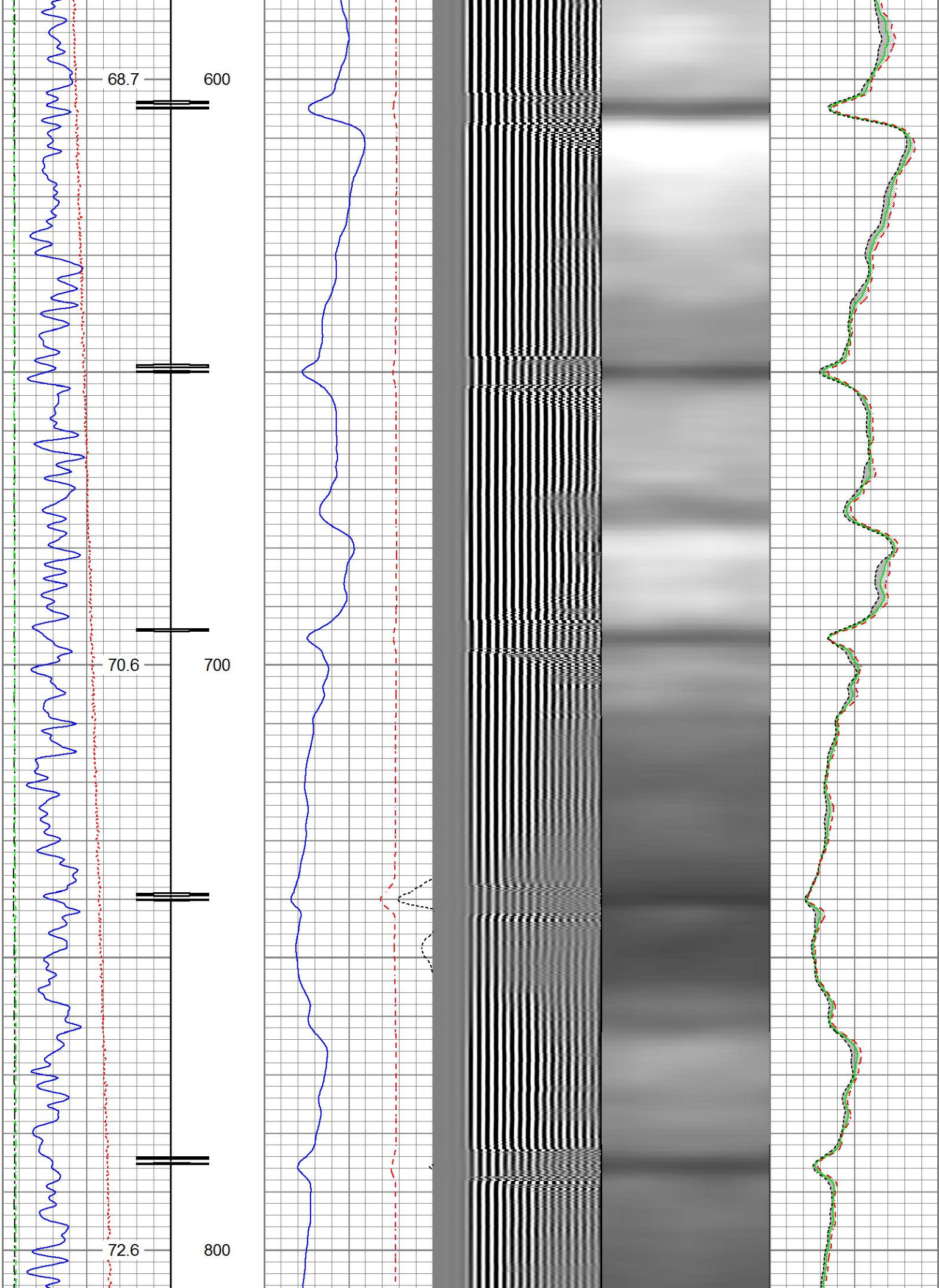
Recorded With 2800 PSI Surface Induced Pressure

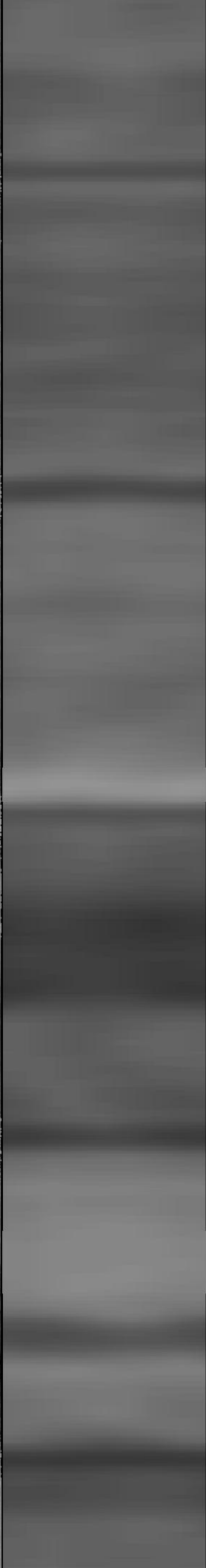
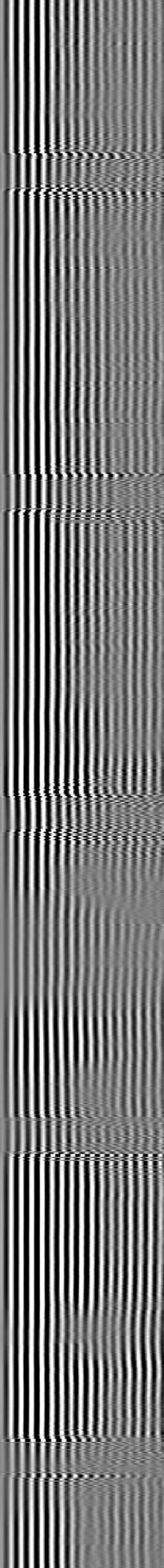
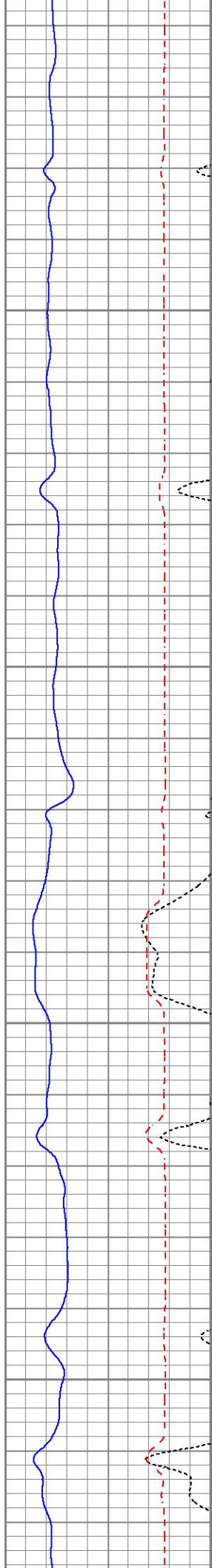
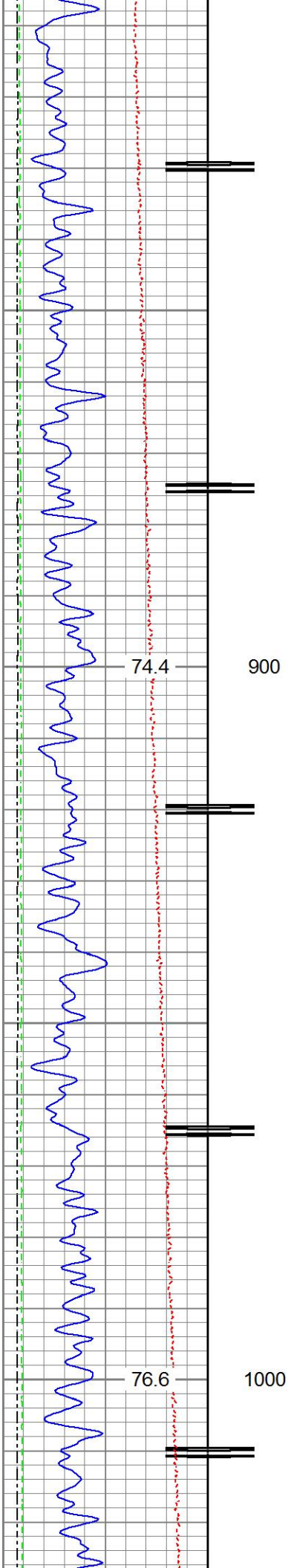
| | | | | | | | | | | |
|-----------------------|--------|-----|------------------|------|-----|-------------------------|------|------------|-------------------|-----|
| Gamma Ray | | | 3' Amplitude | | | 5' Variable Density Log | | Sector Map | Average Amplitude | |
| 0 | (GAPI) | 120 | 0 | (mV) | 100 | 200 | 1200 | | 0 | 100 |
| Casing Collar Locator | | | 3' Amplitude x 5 | | | | | | Minimum Amplitude | |
| Temperature | | | 0 (mV) 20 | | | | | | 0 100 | |
| 0 | (degF) | 20 | 3' Travel Time | | | | | | Maximum Amplitude | |
| Line Speed | | | 650 (usec) 150 | | | | | | 0 100 | |
| -150 (ft/min) 150 | | | | | | | | | | |
| Line Tension | | | | | | | | | | |
| 0 (lb) 2000 | | | | | | | | | | |

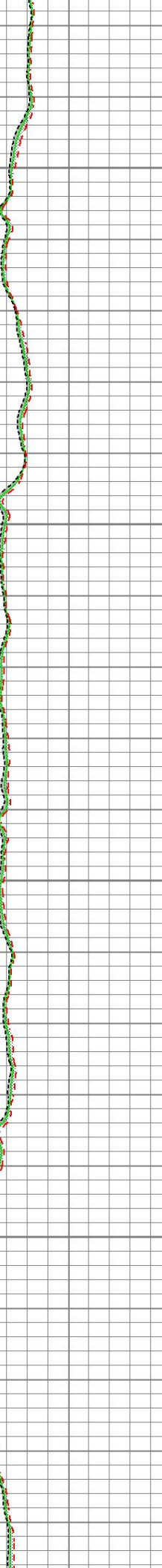
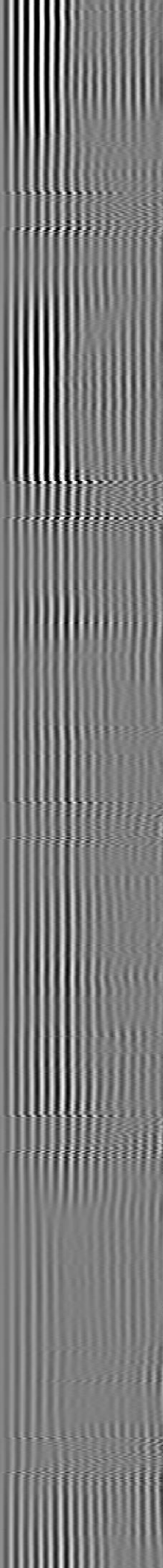
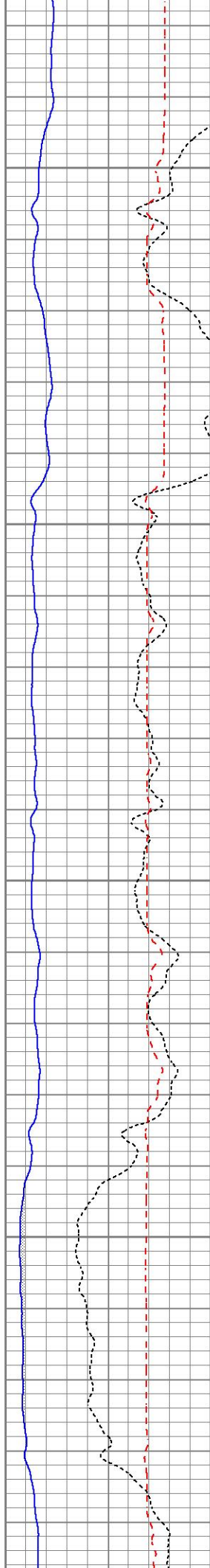
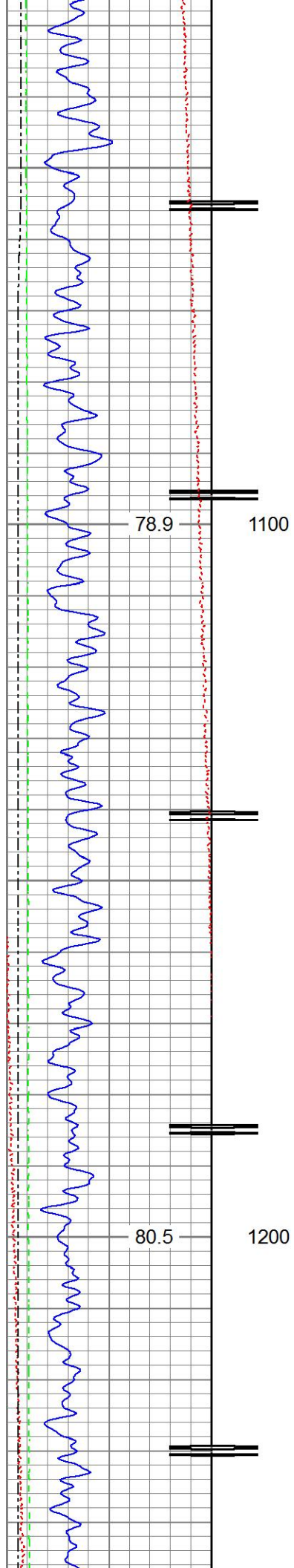


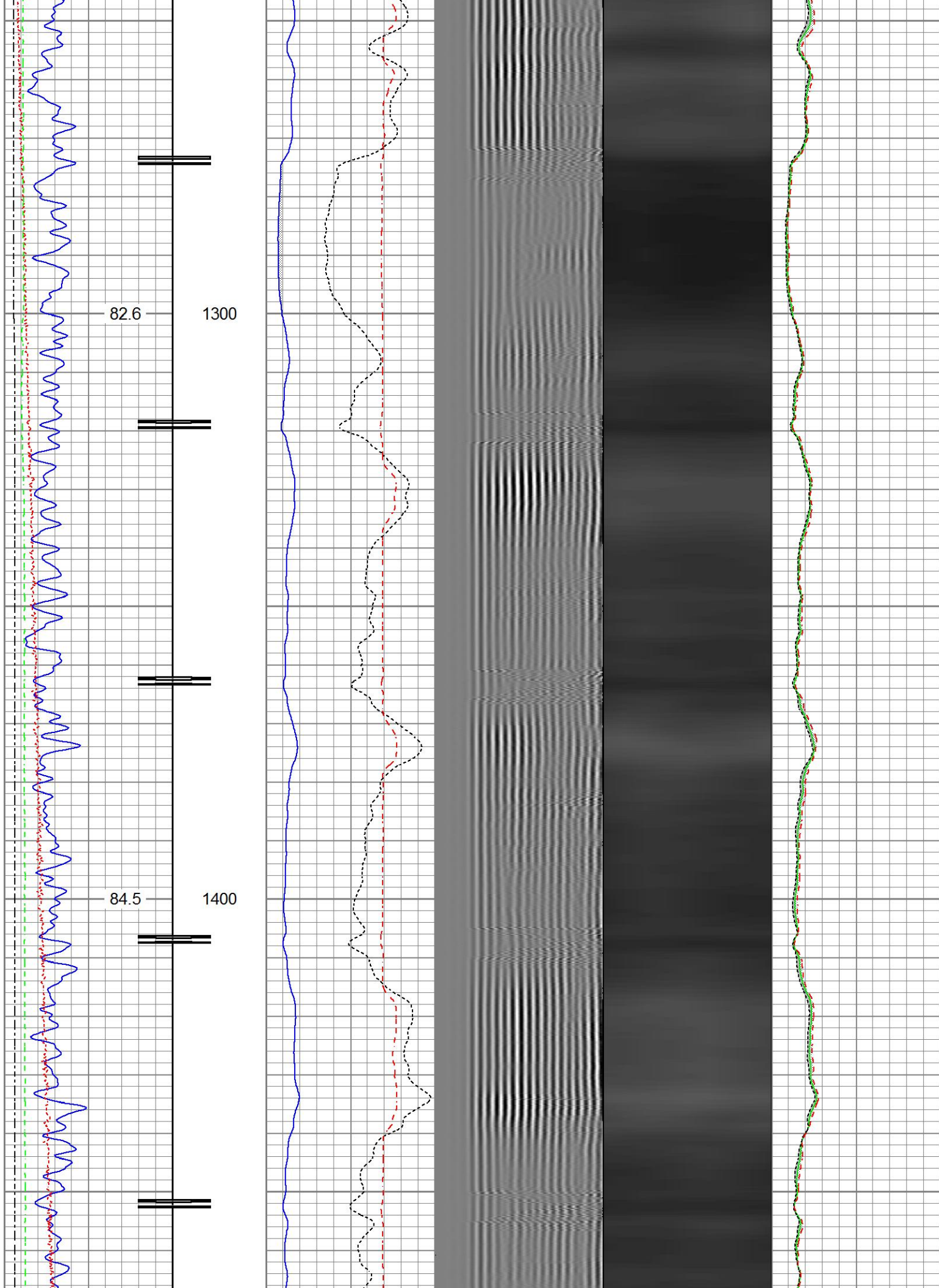


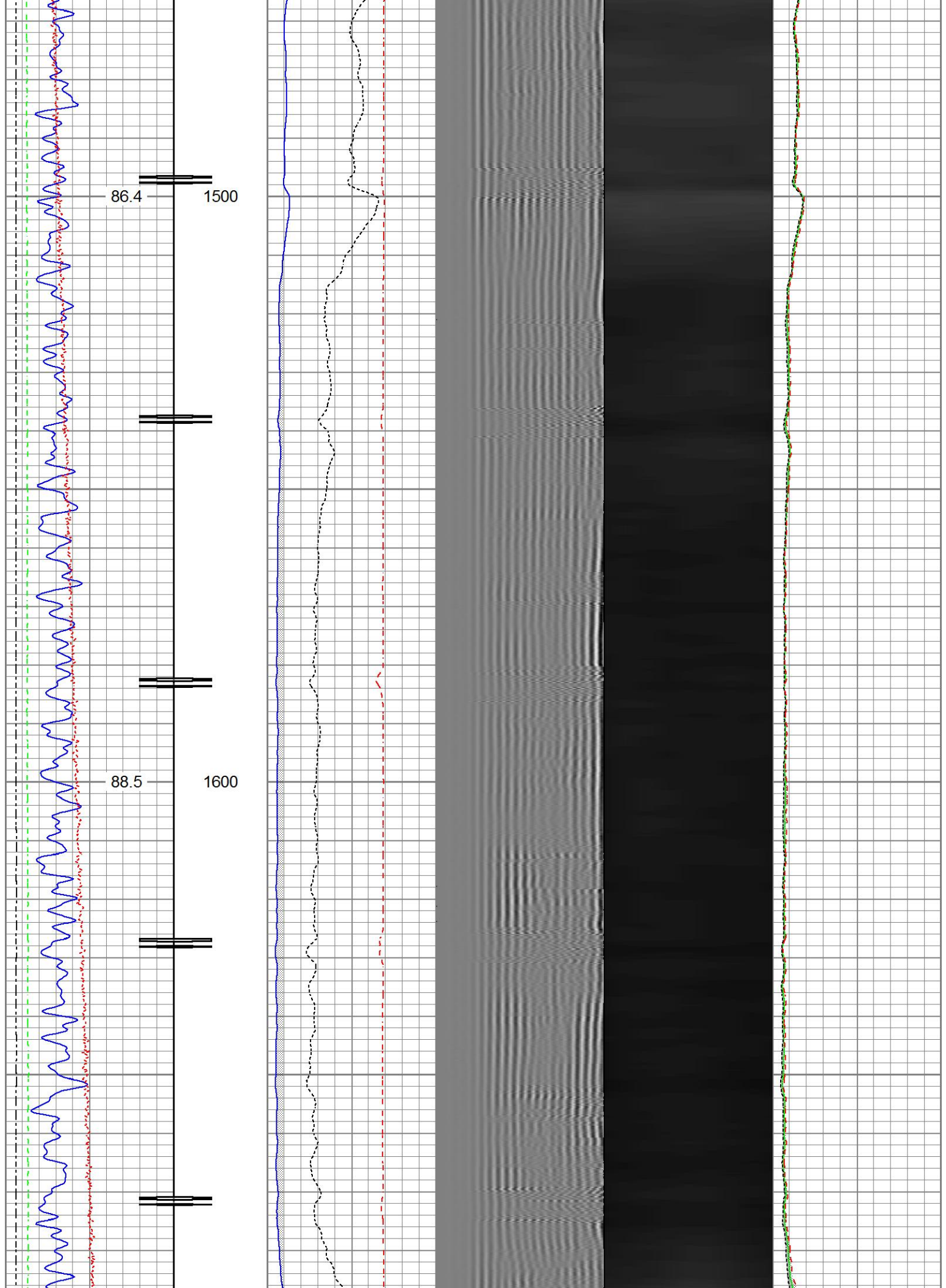


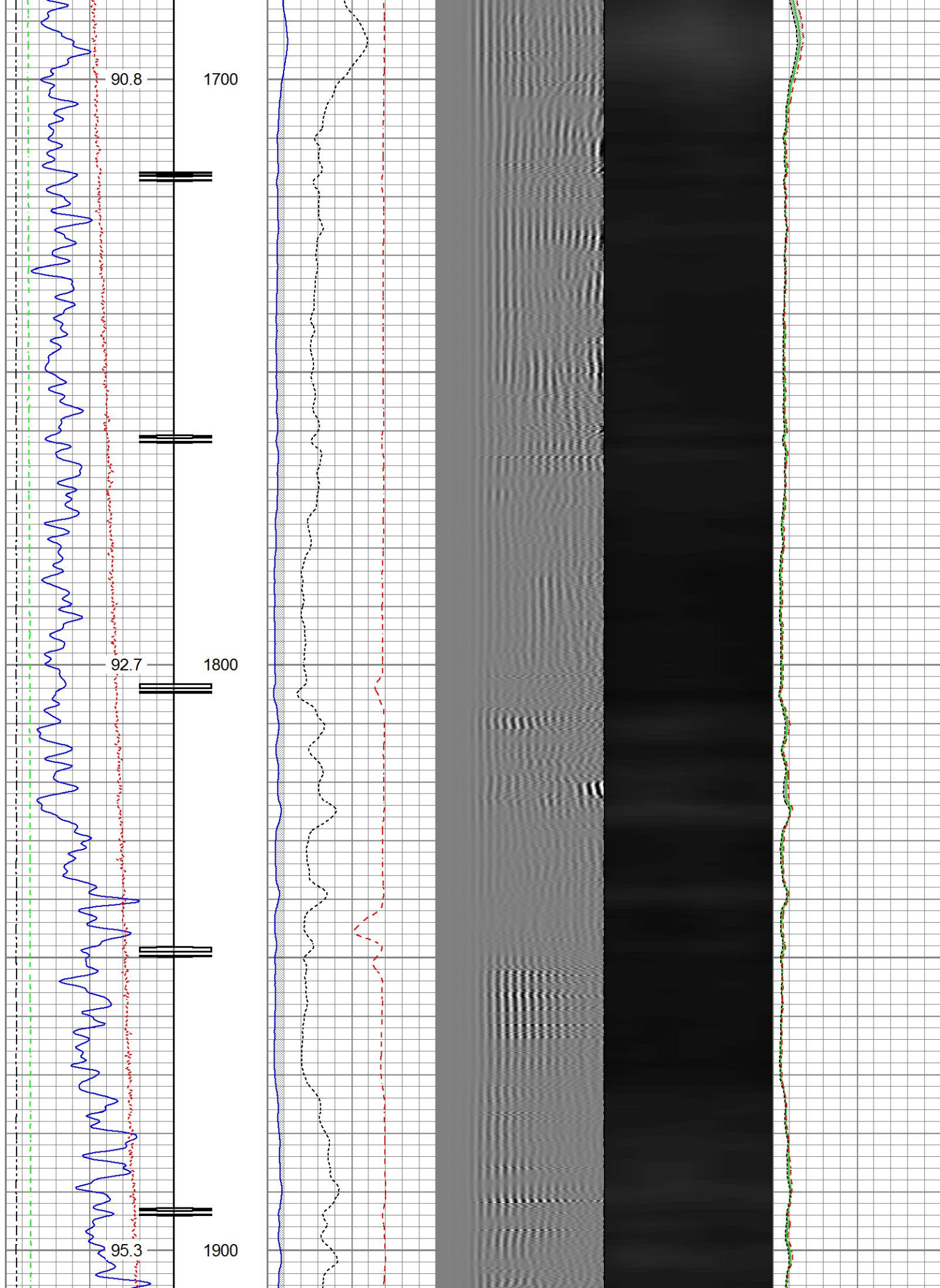


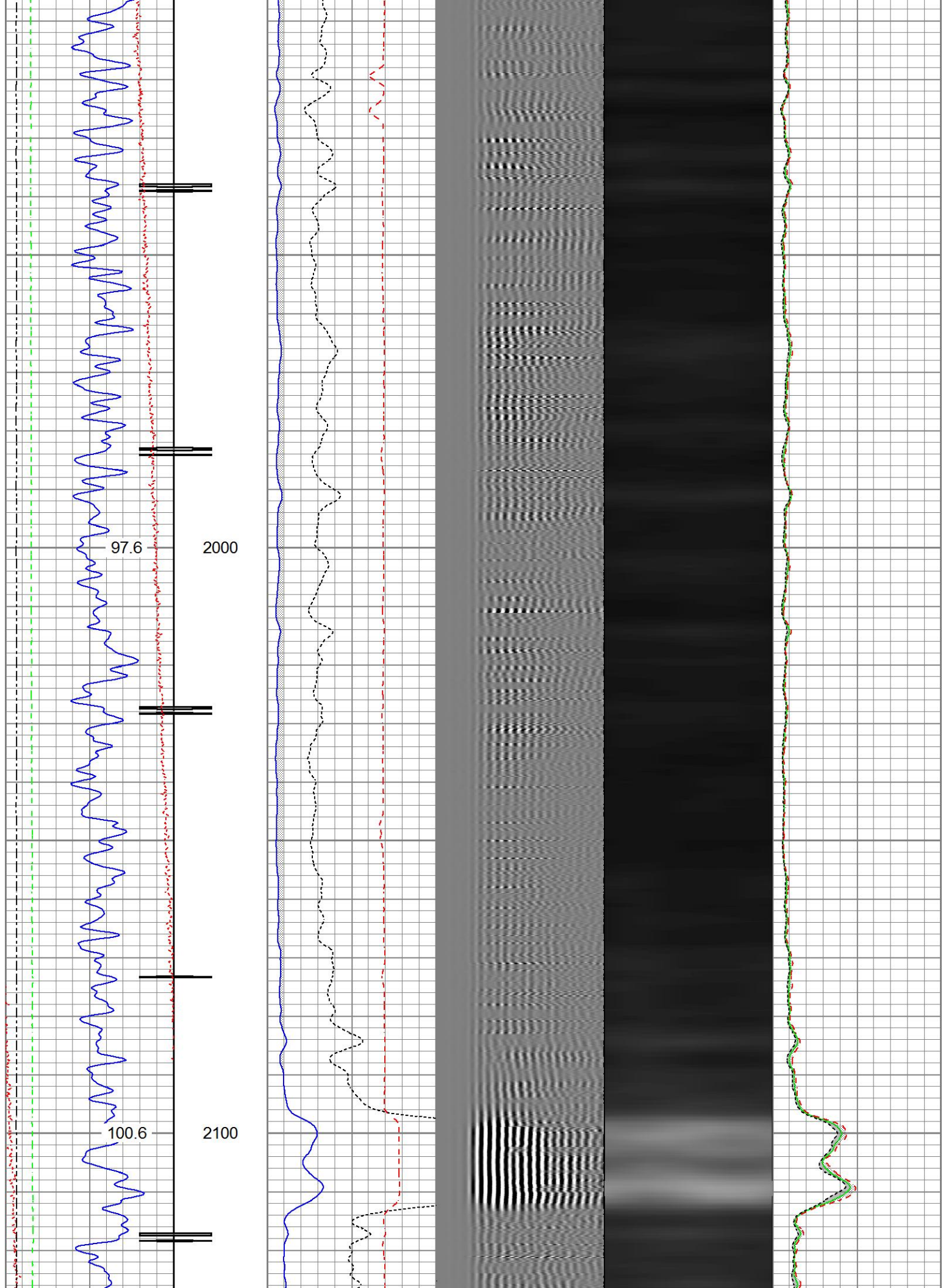


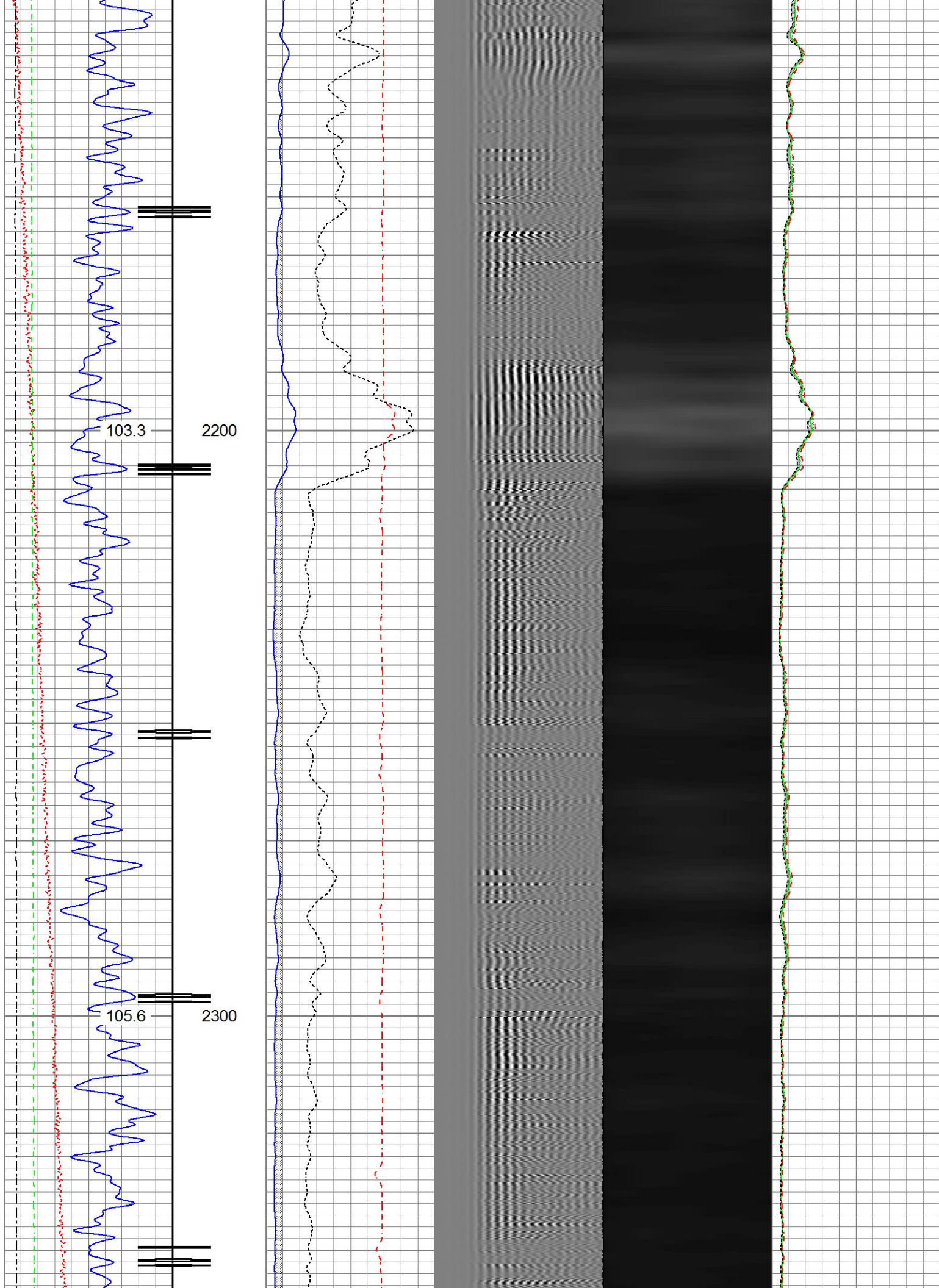


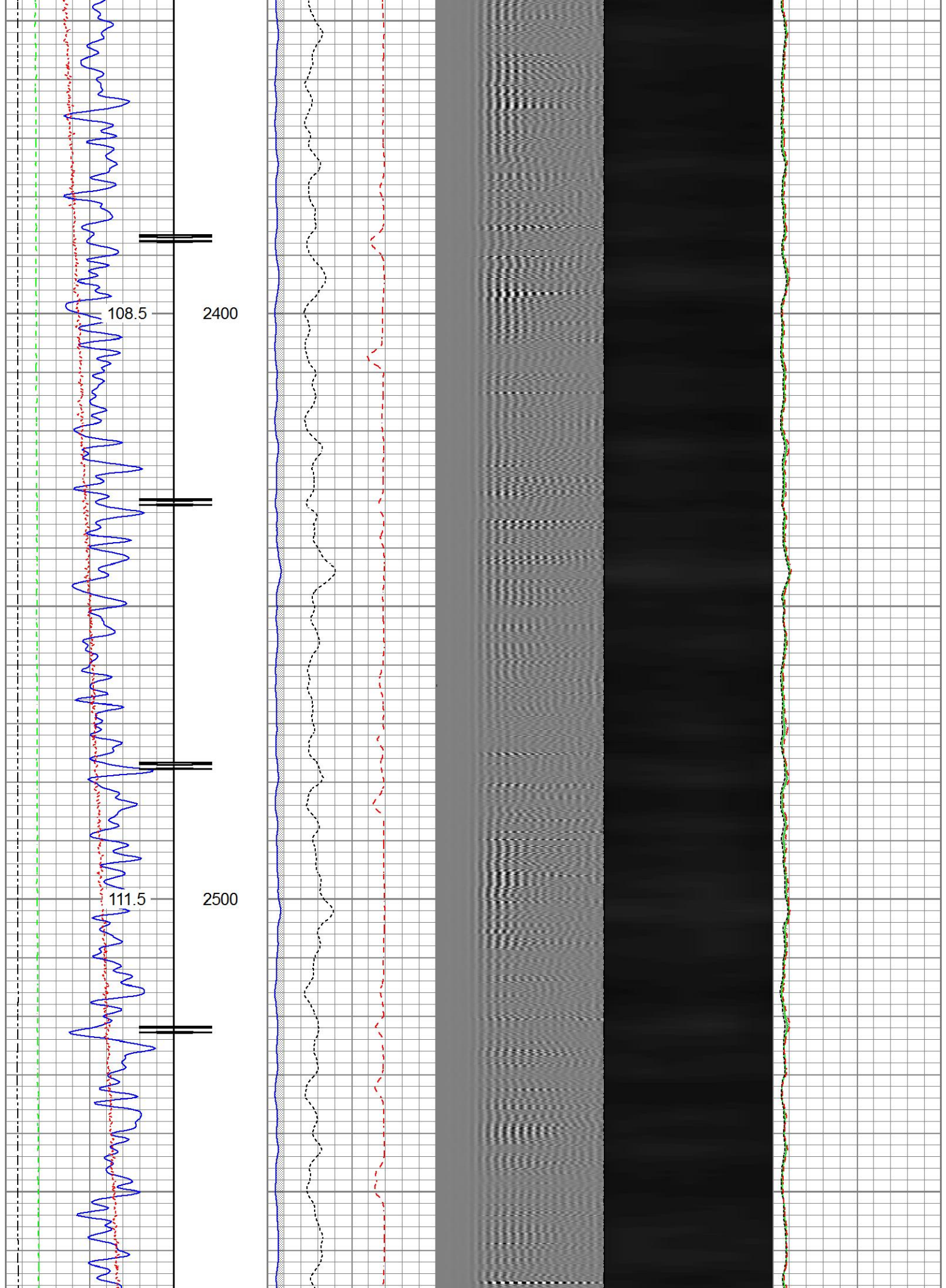


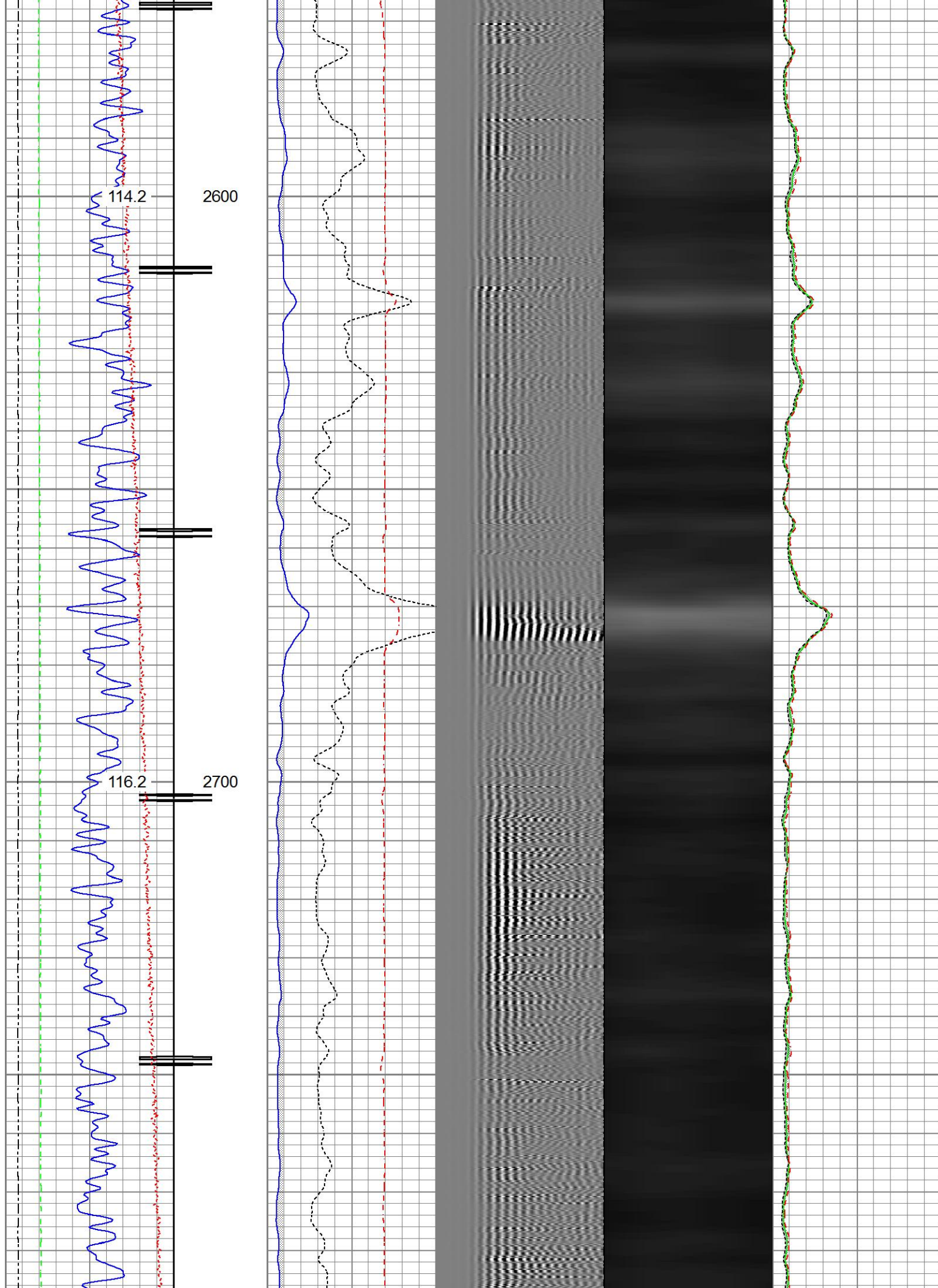


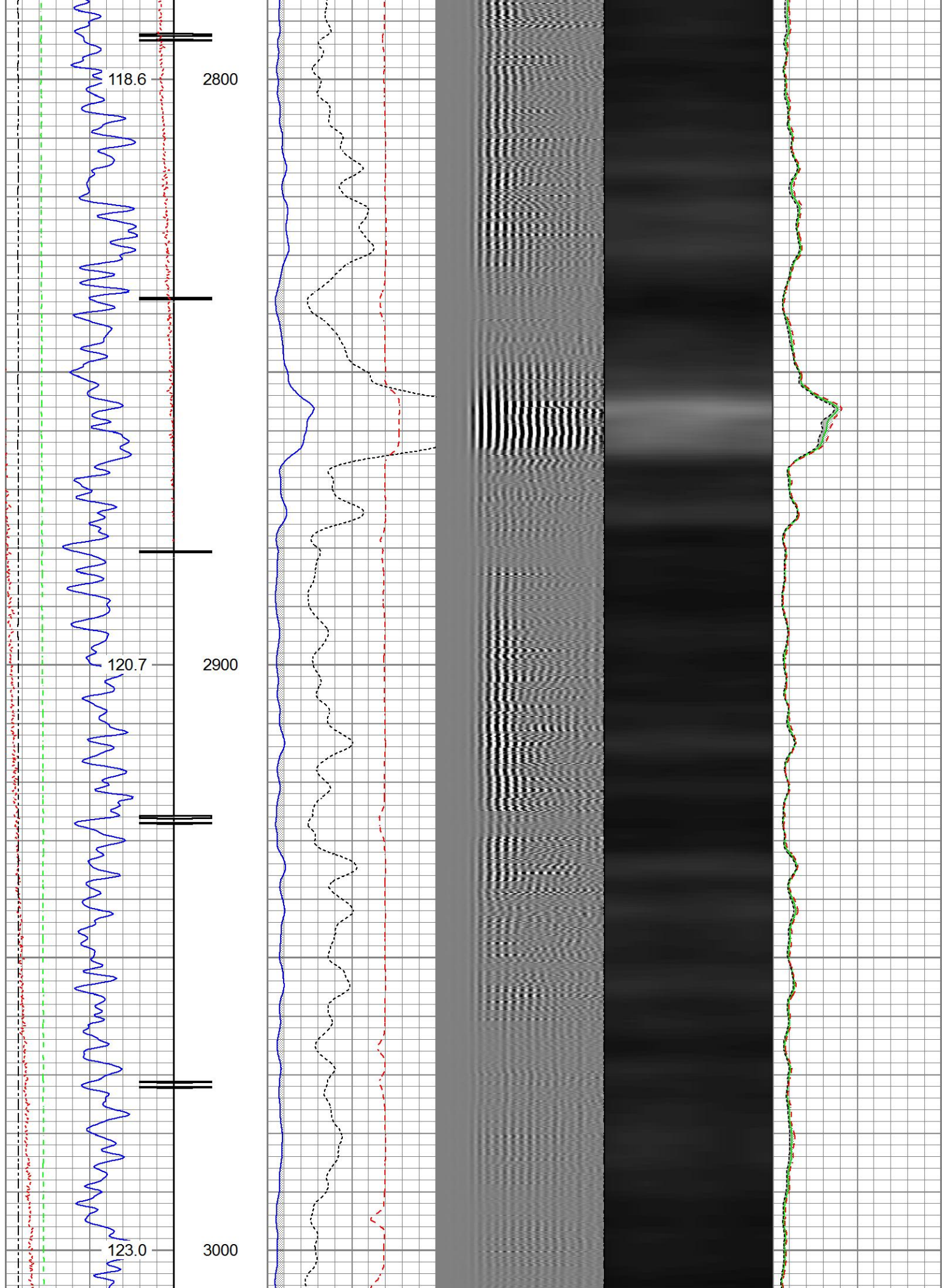


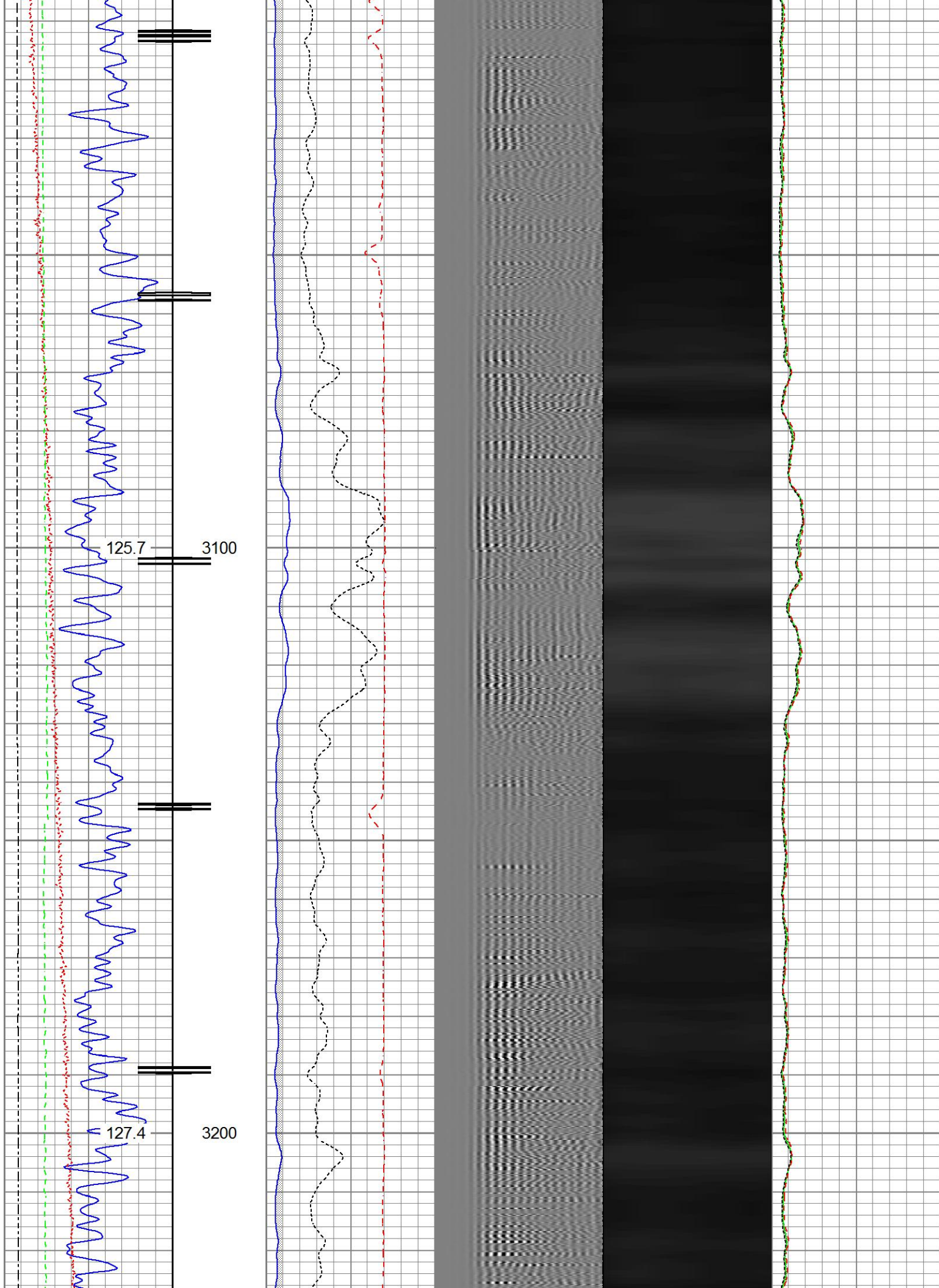


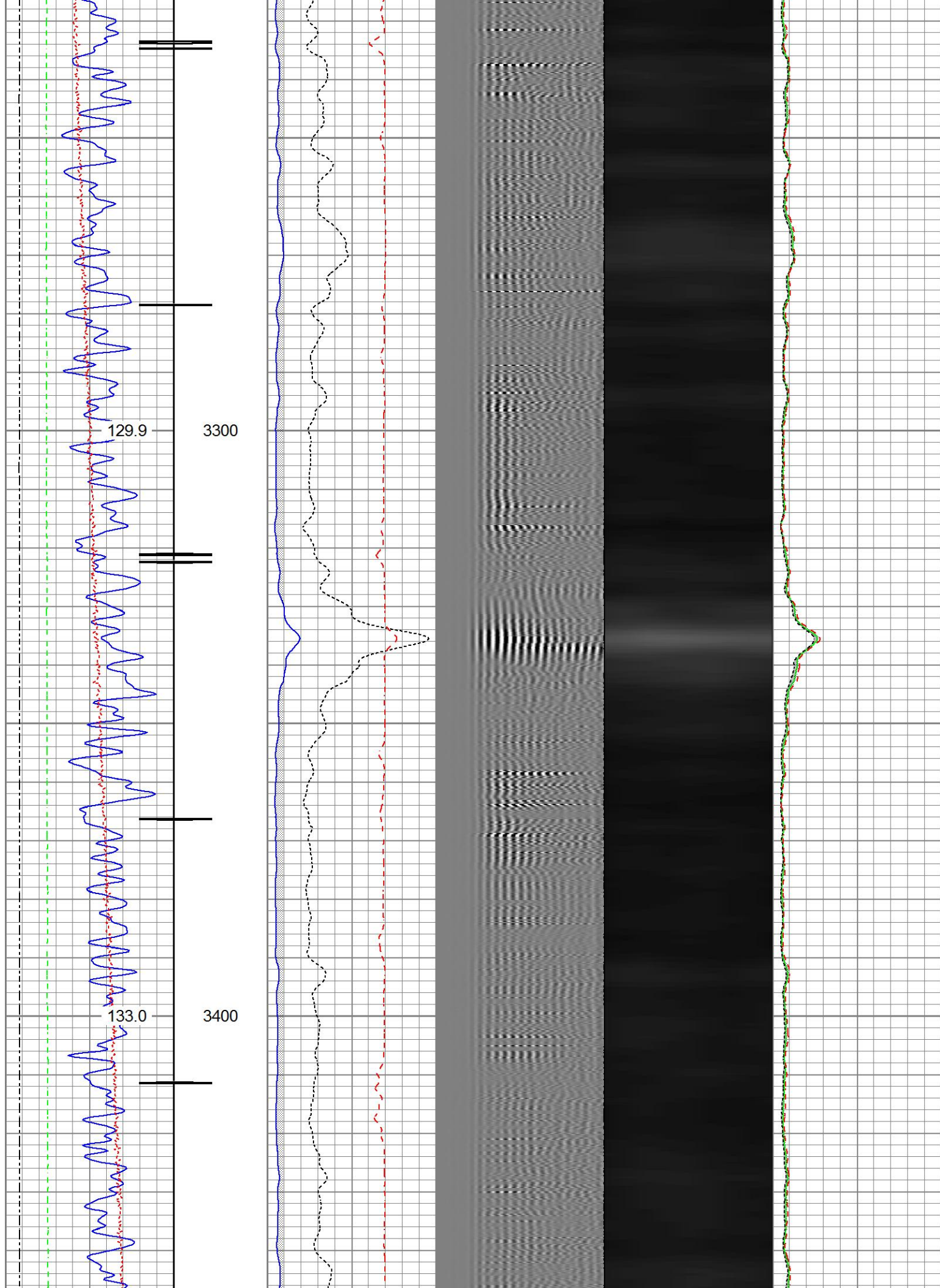


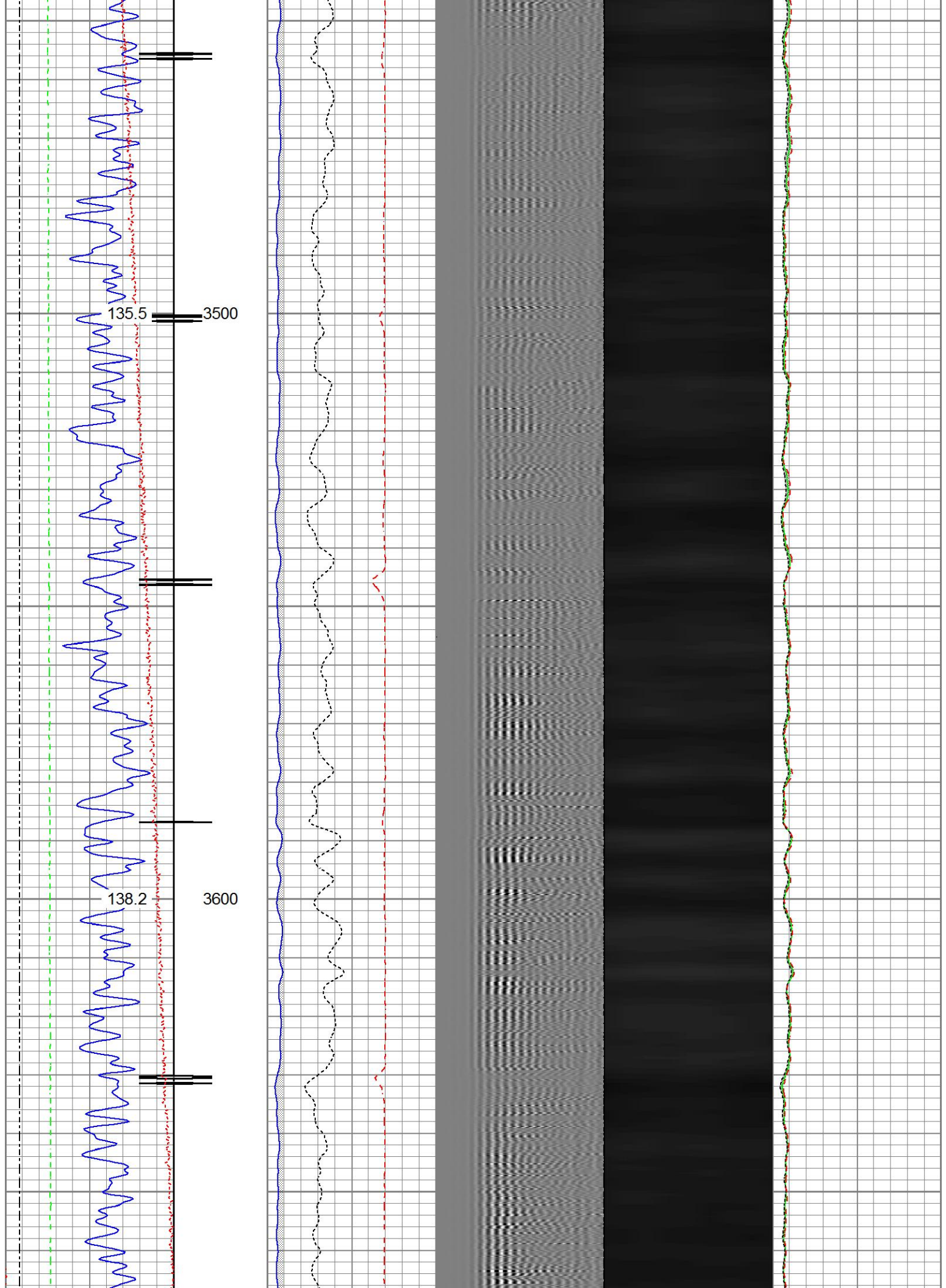


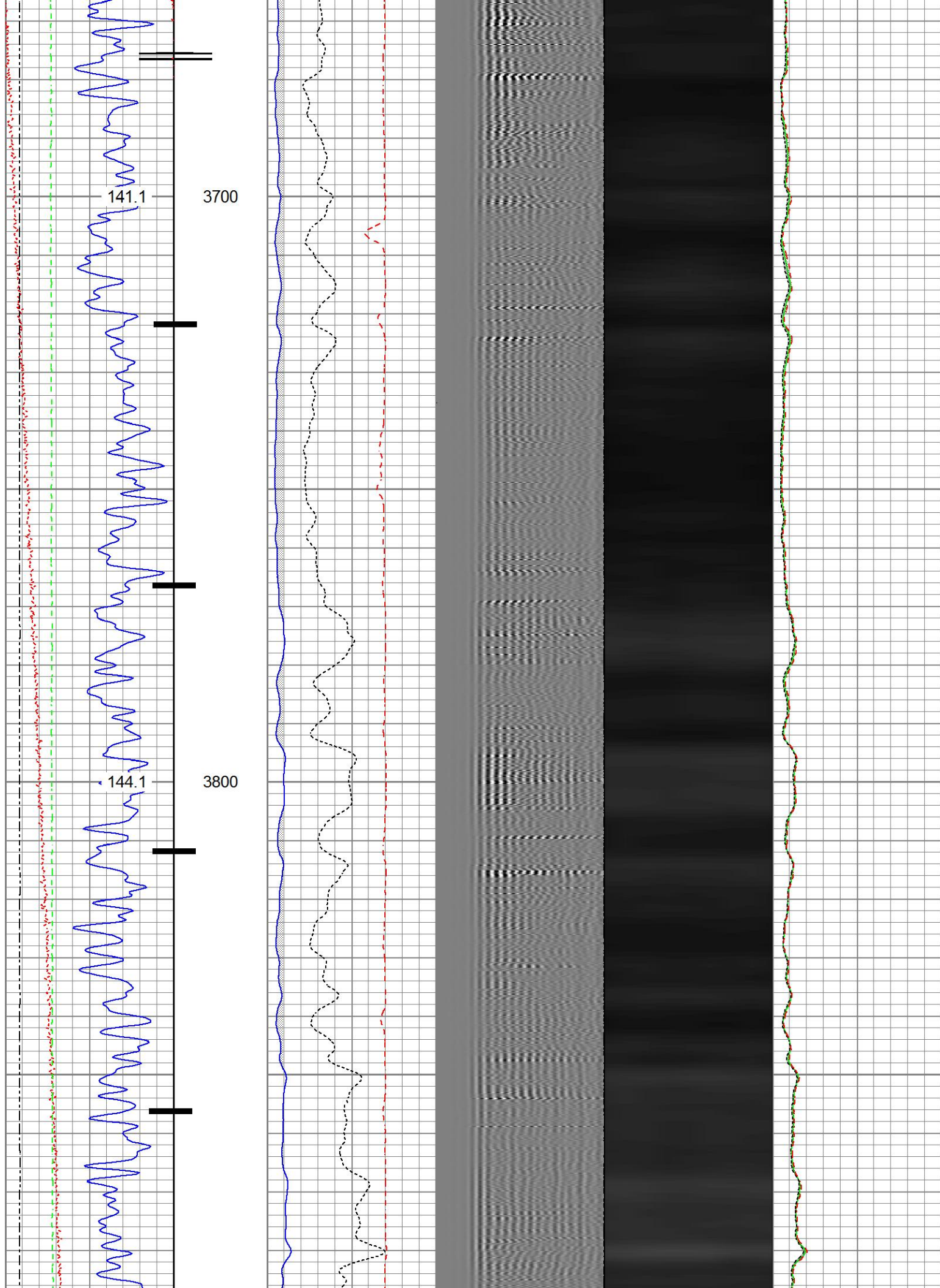


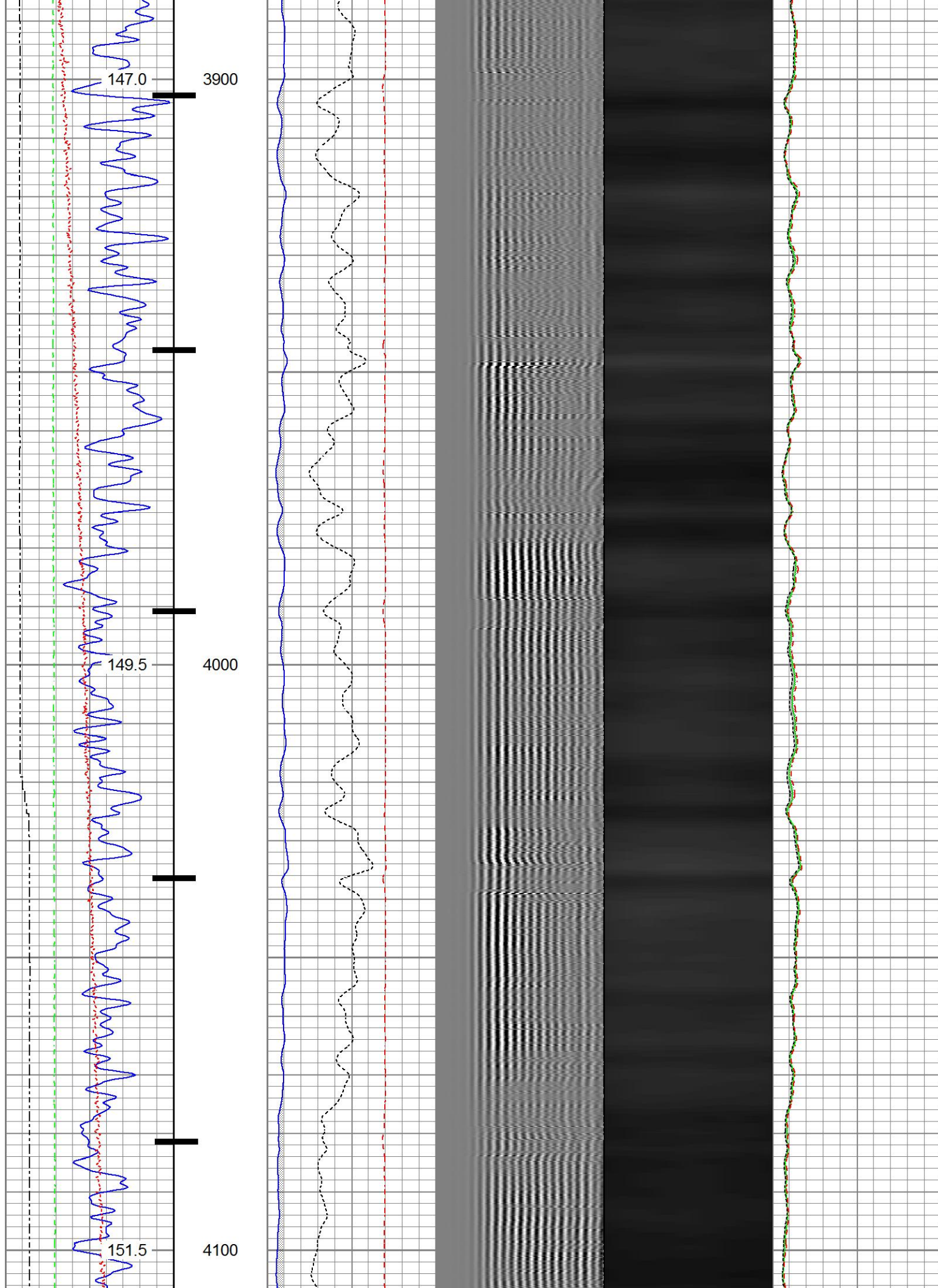


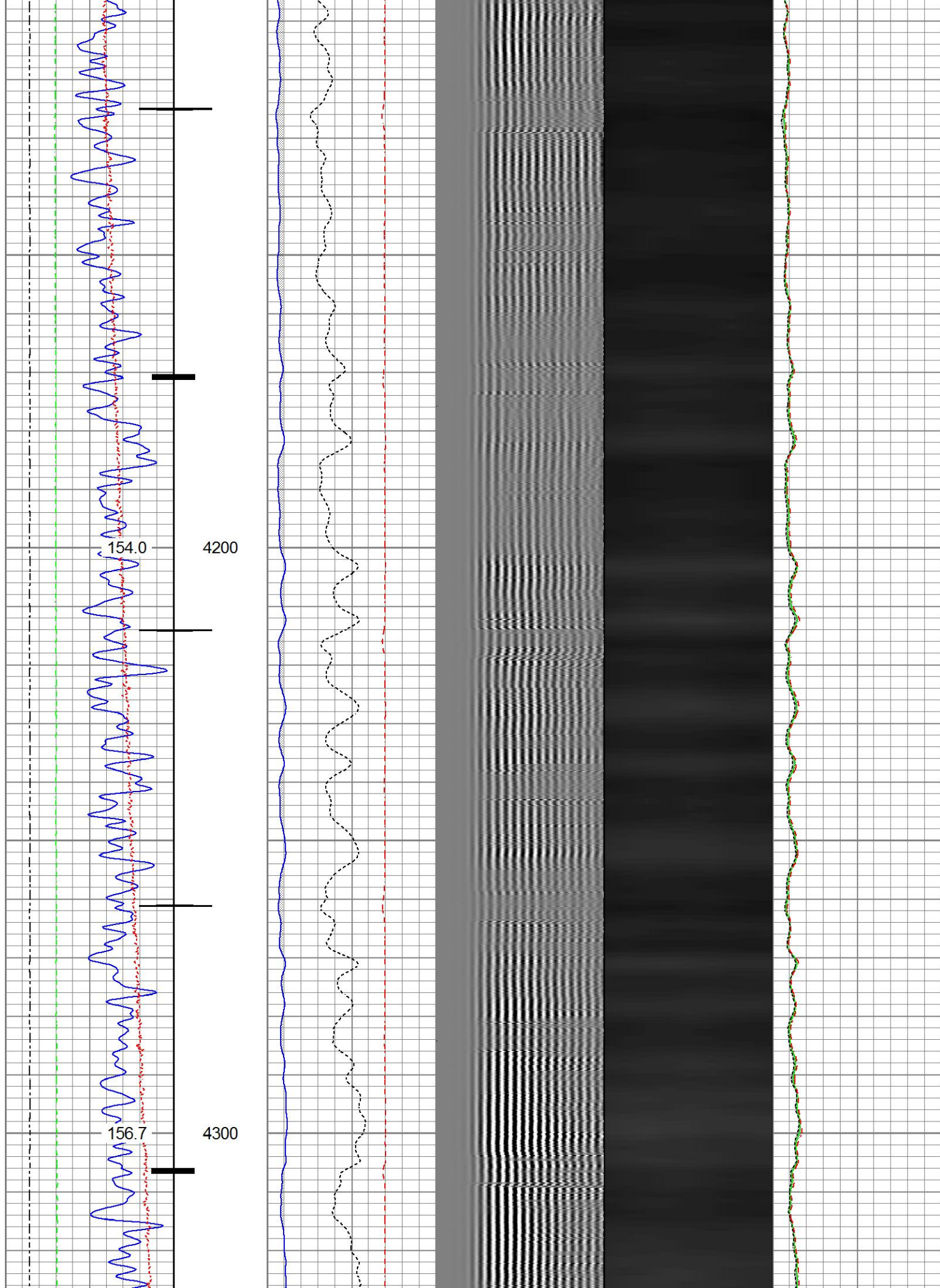


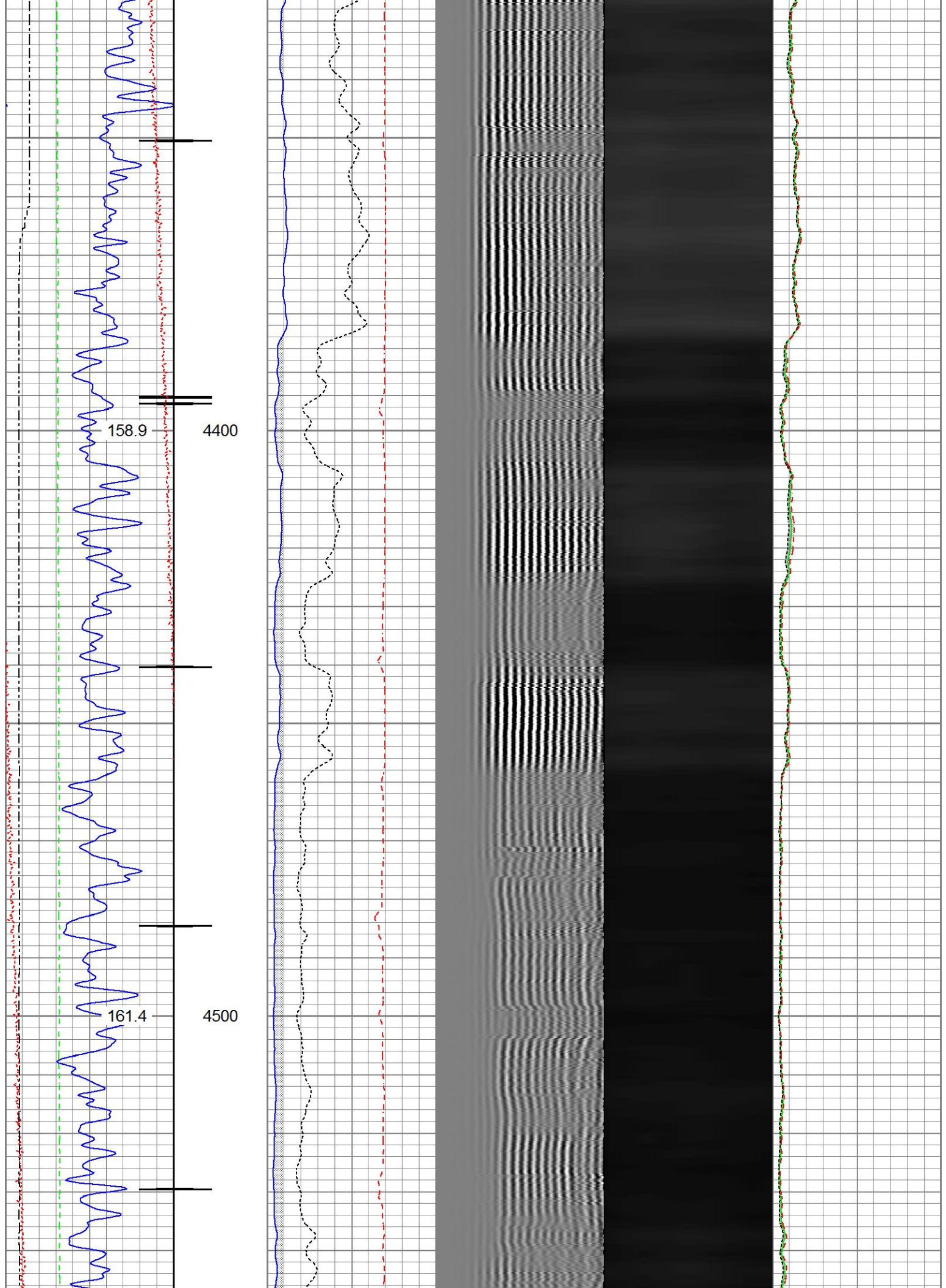


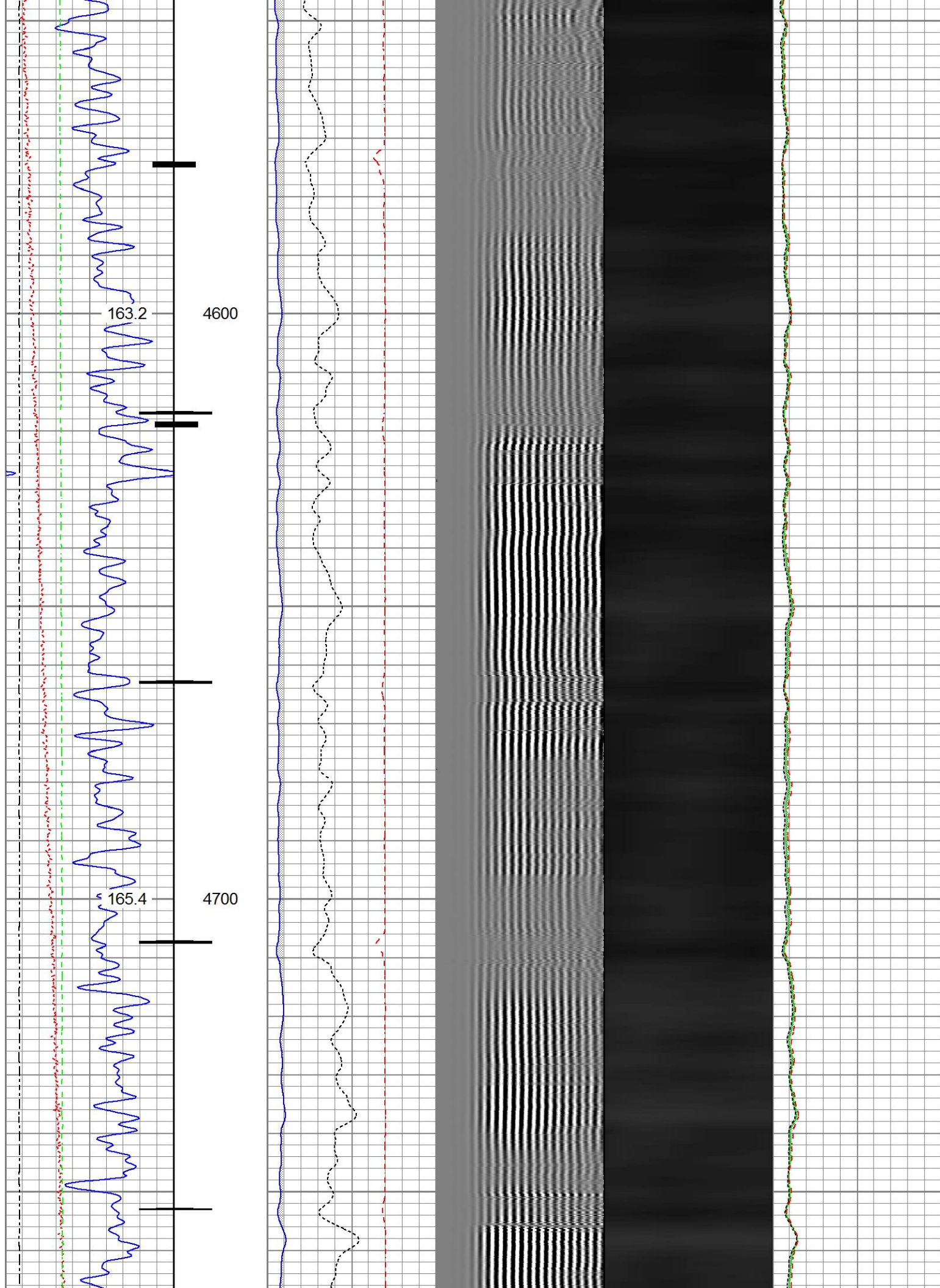


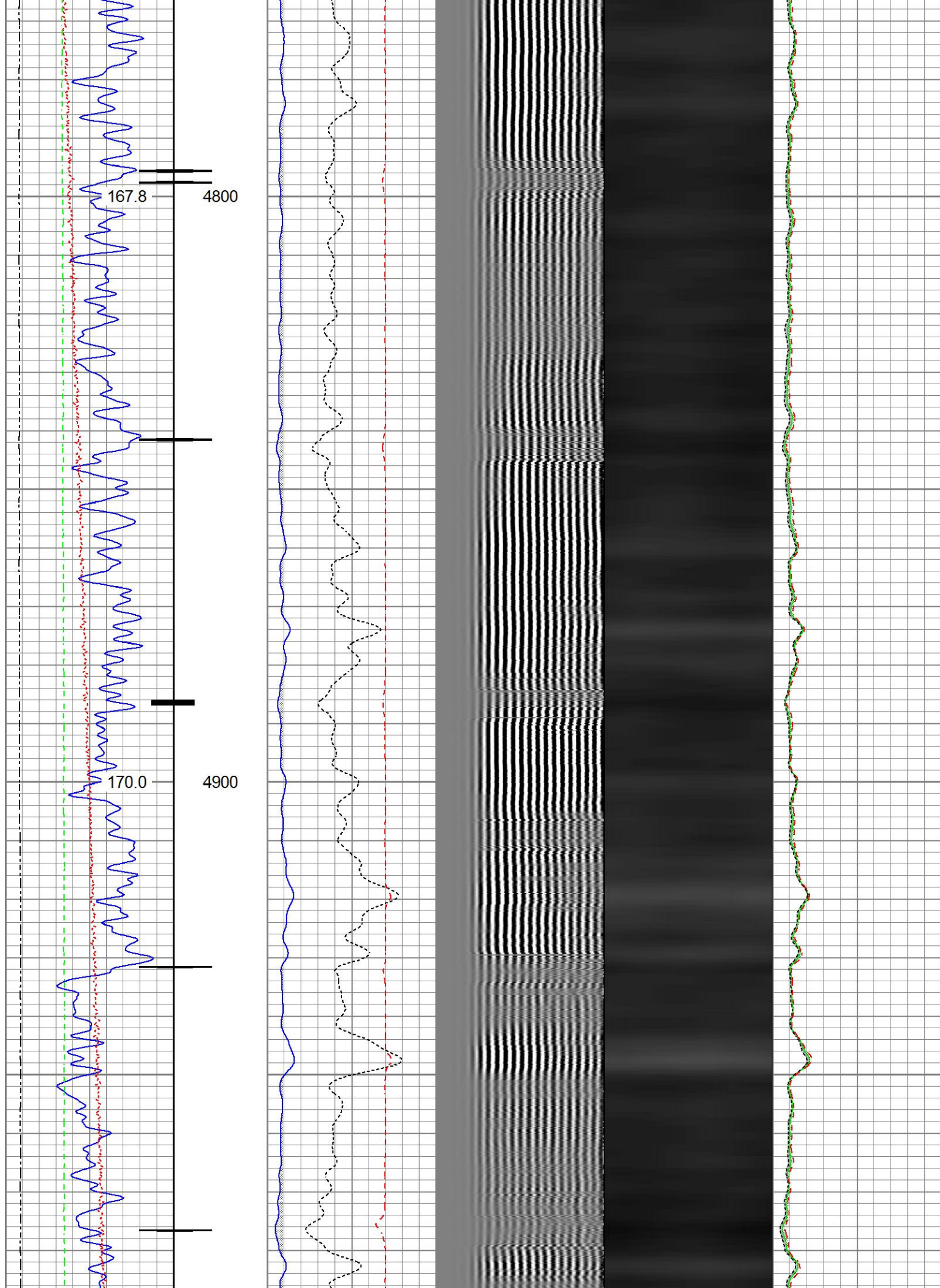


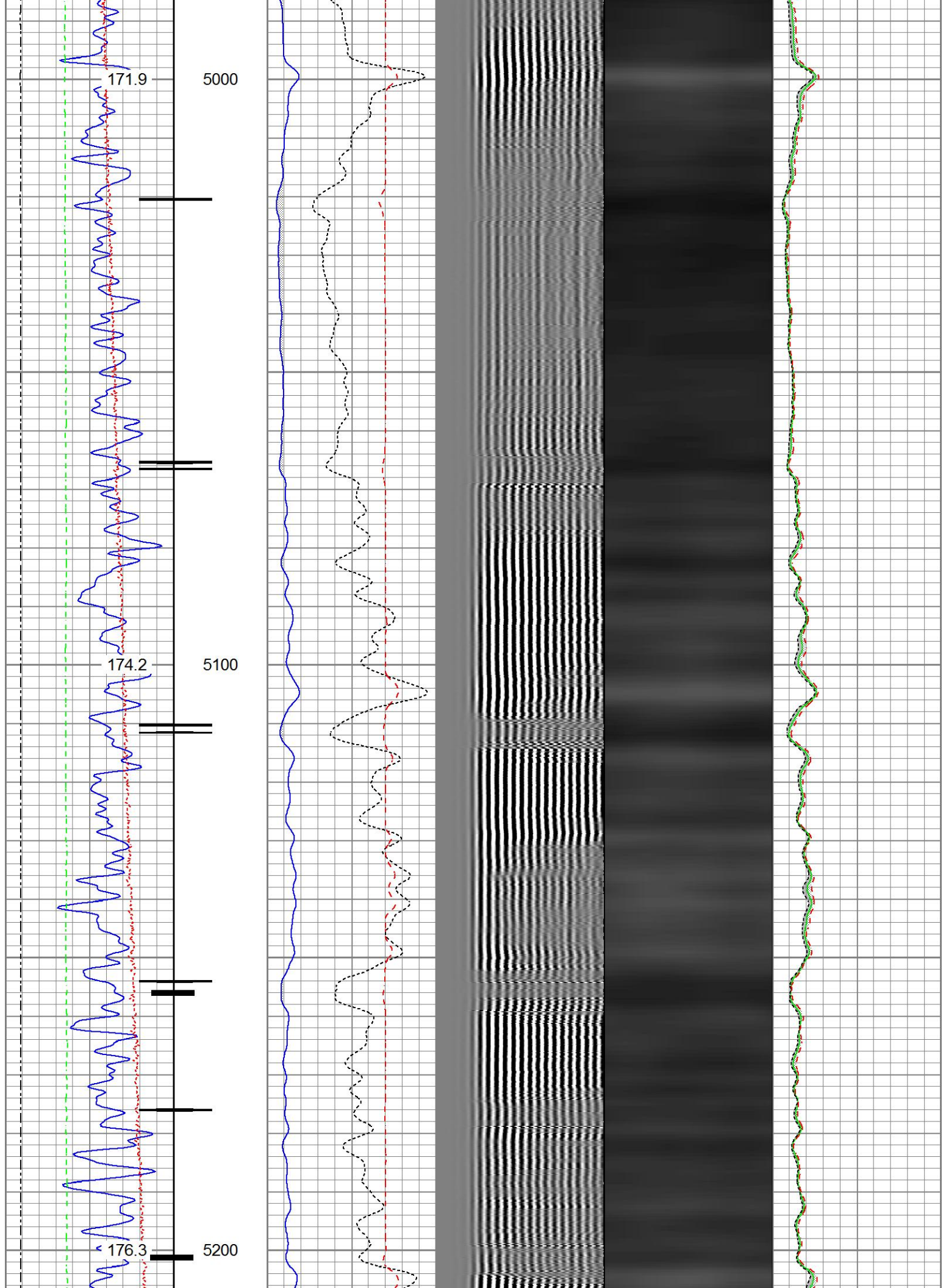


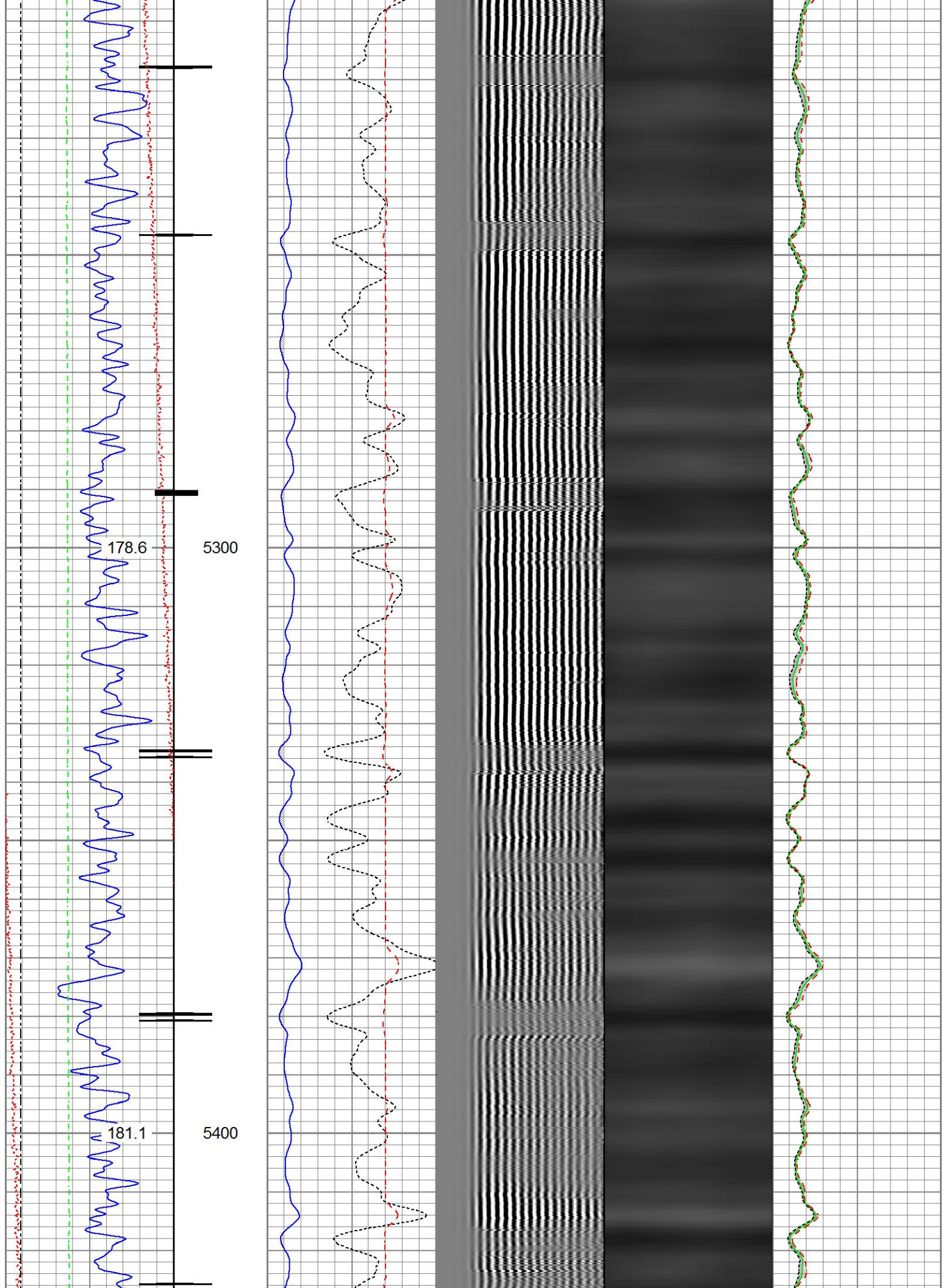


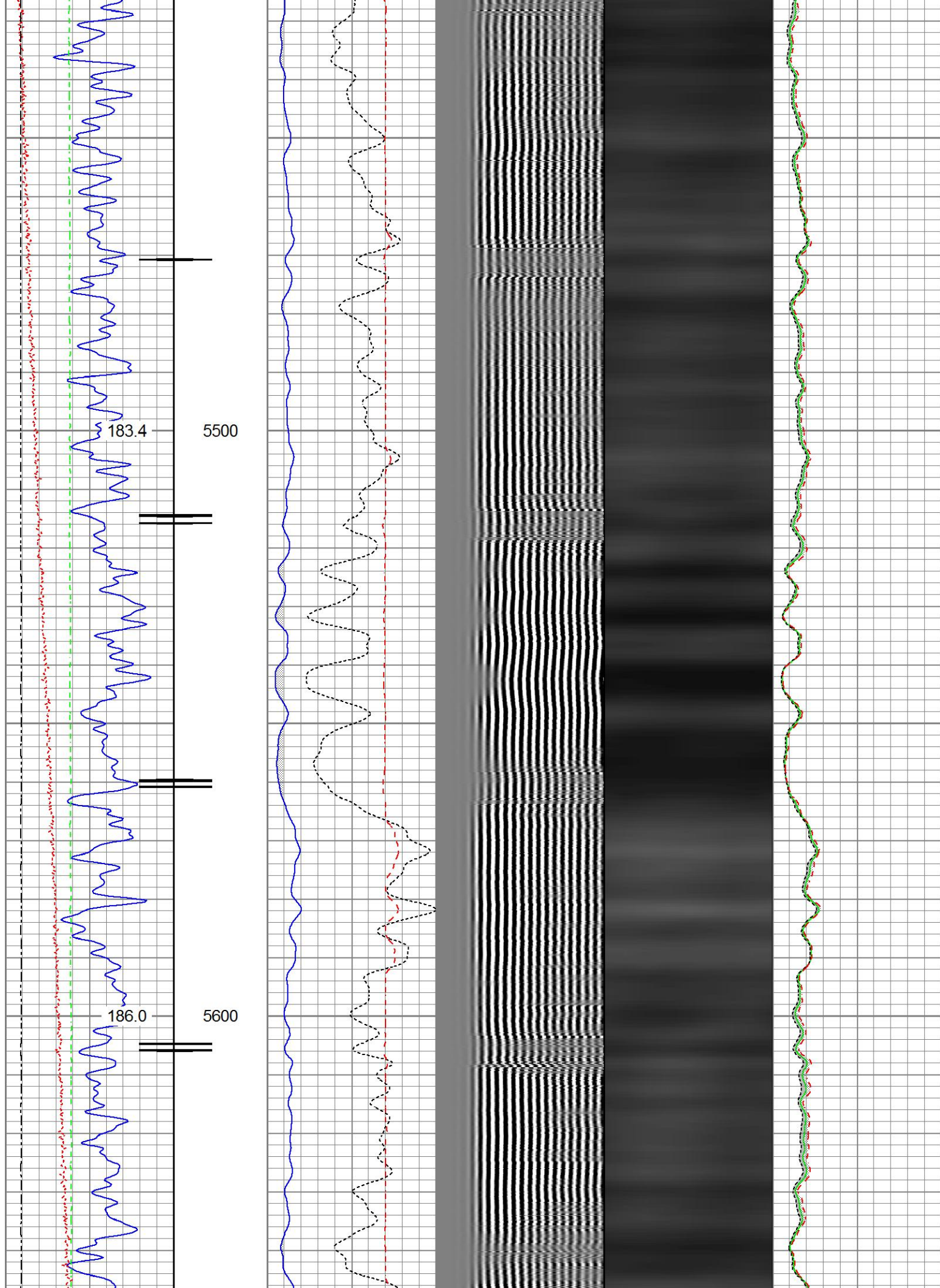


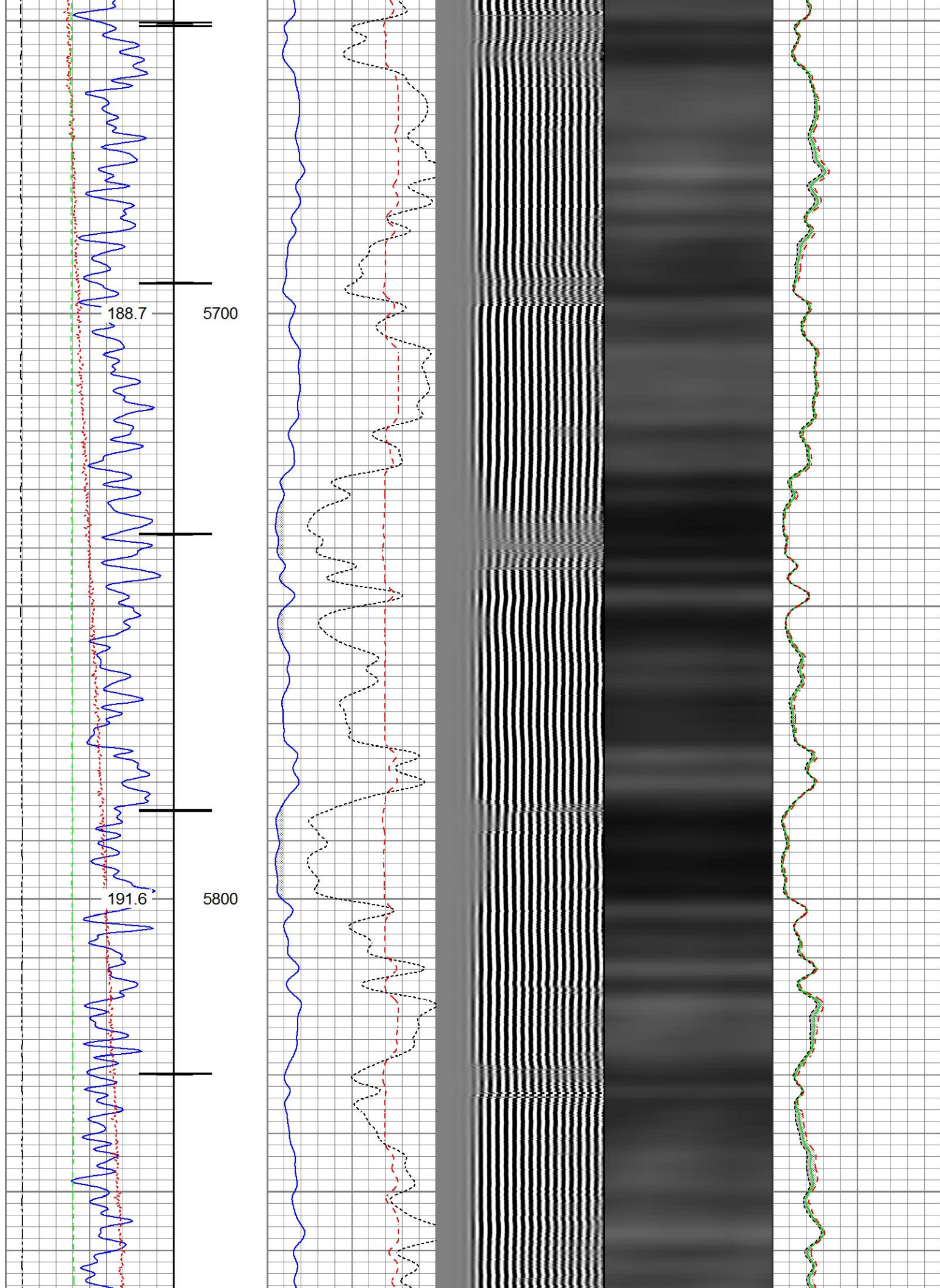


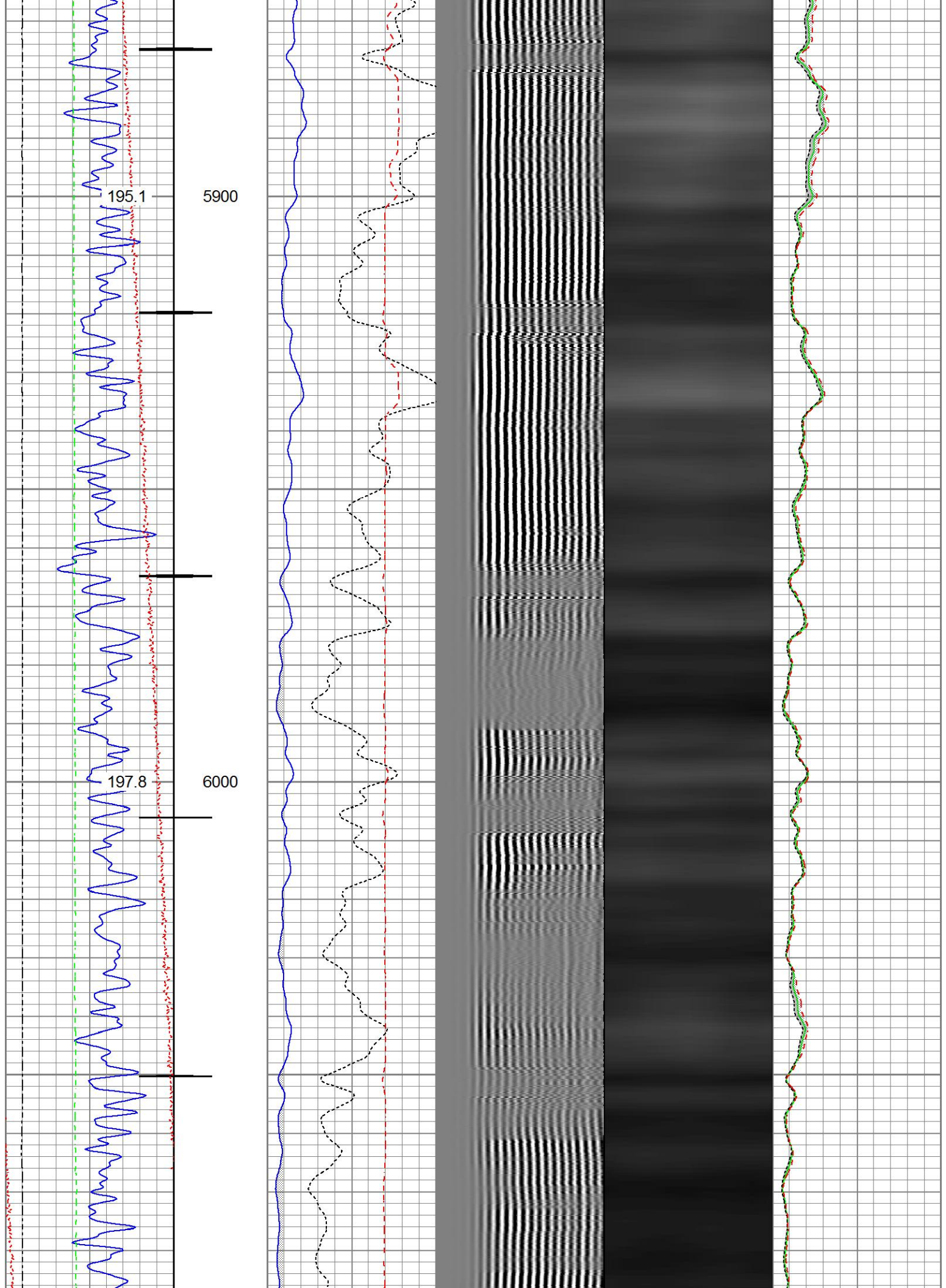


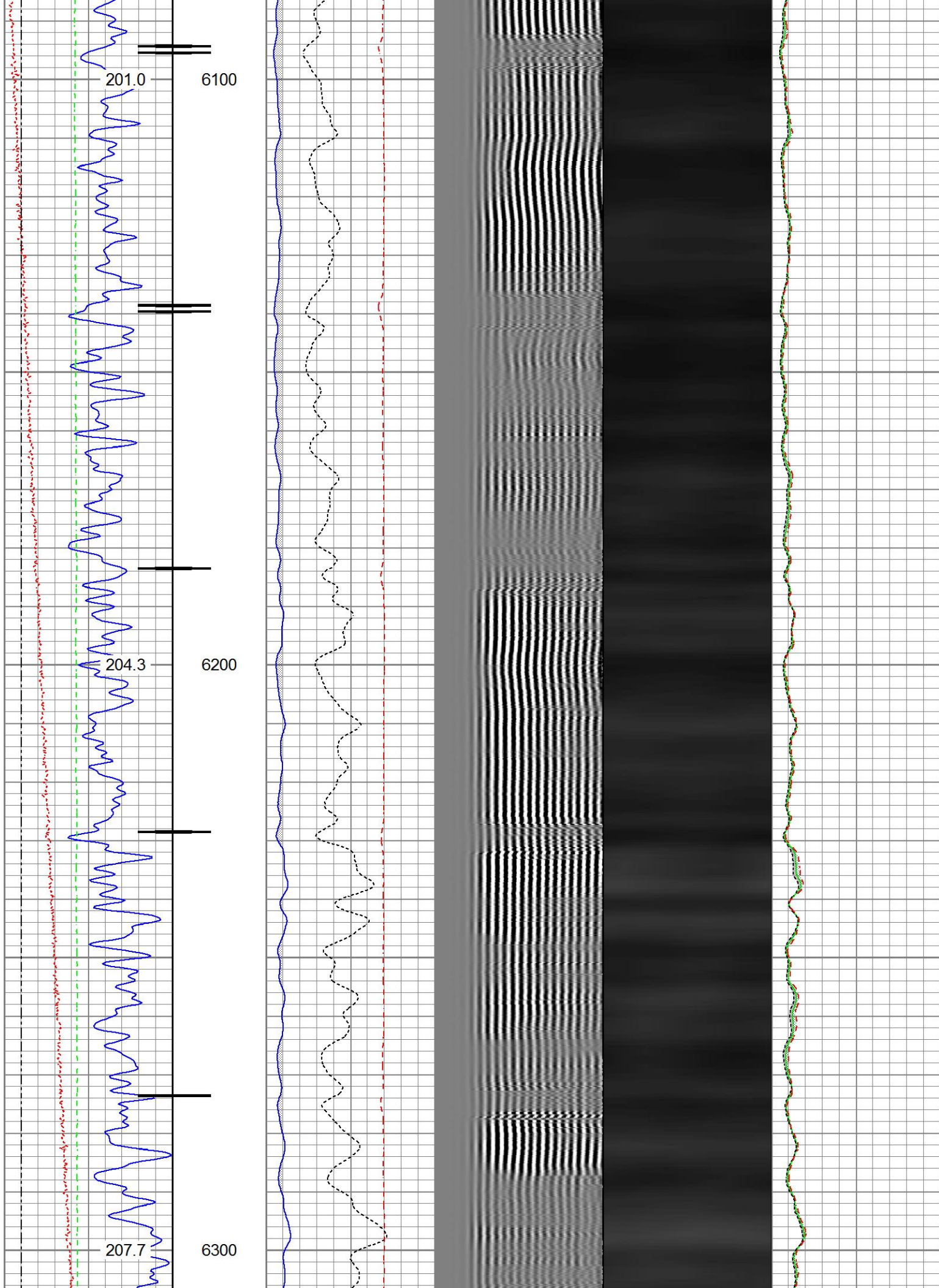


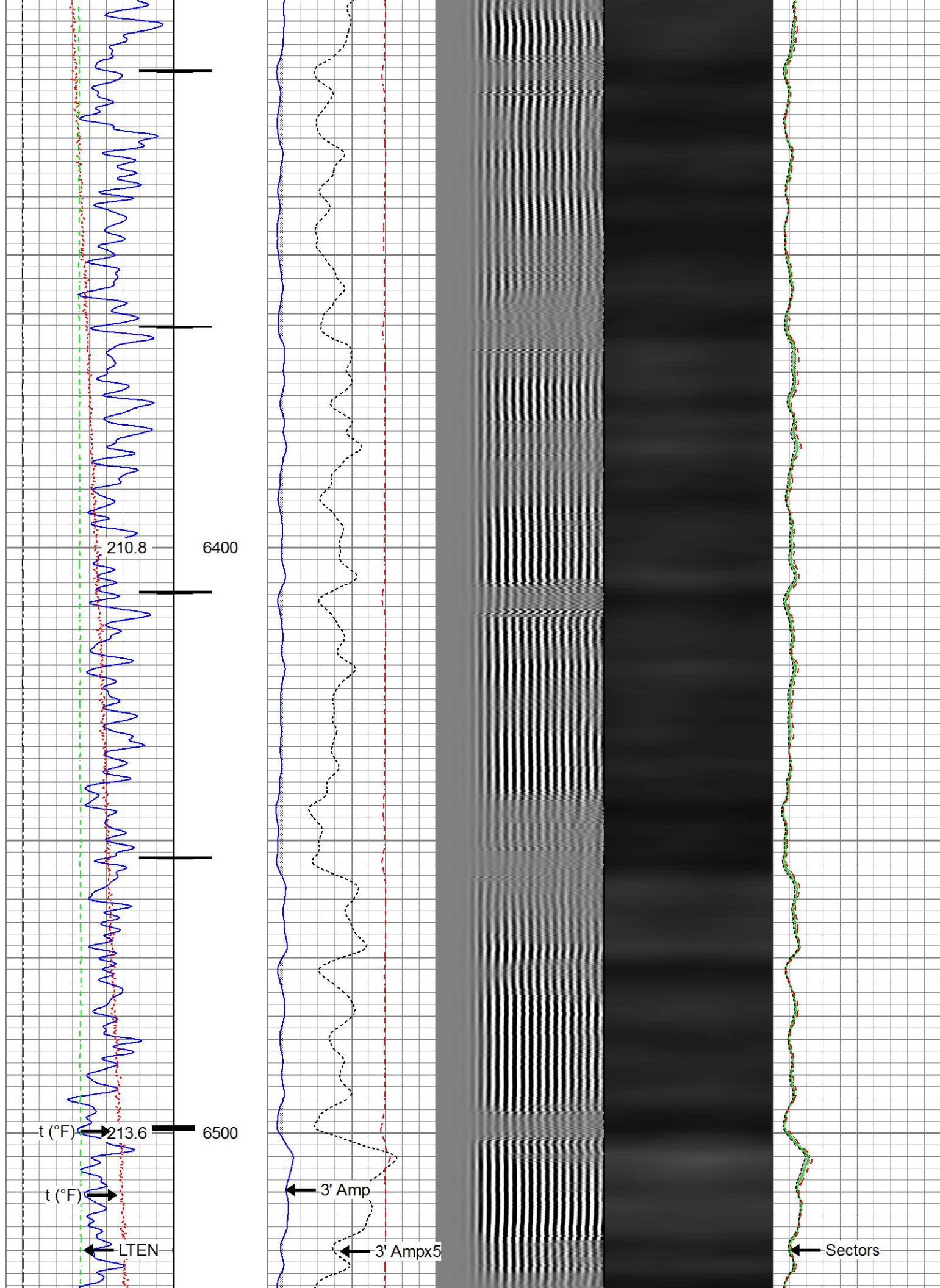


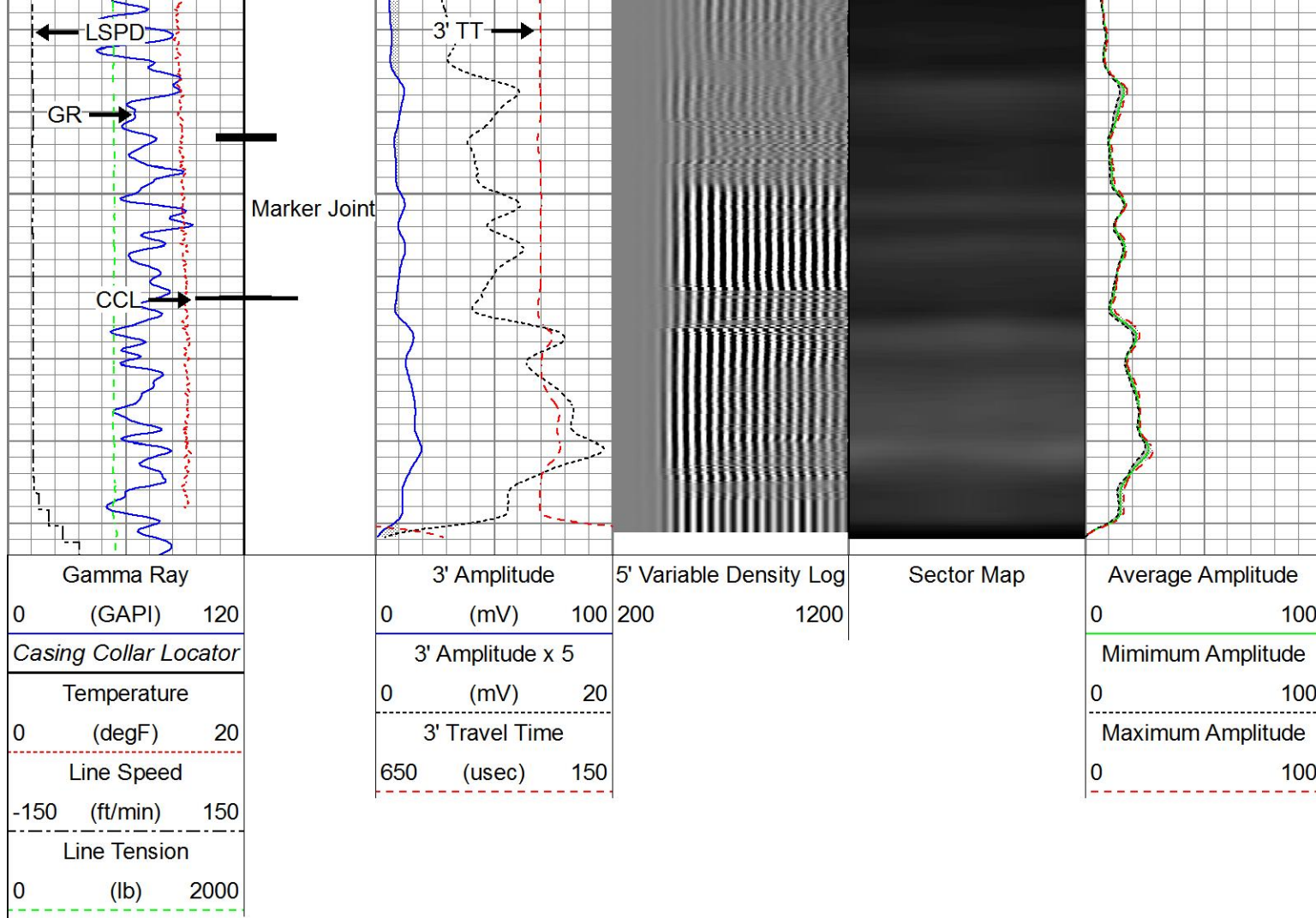






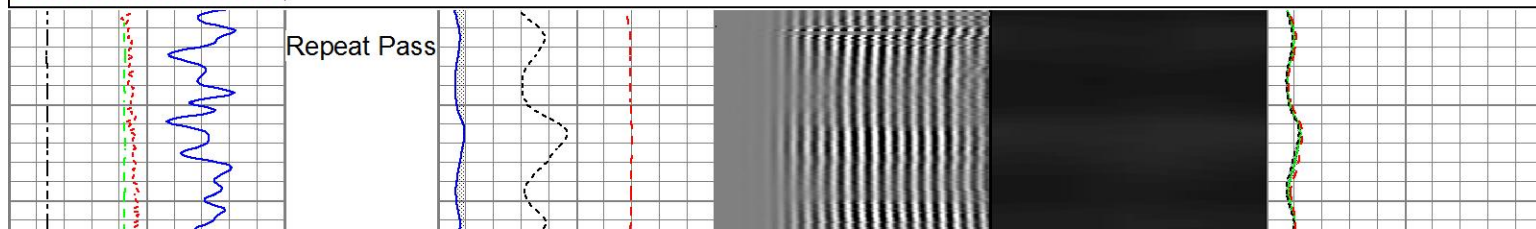
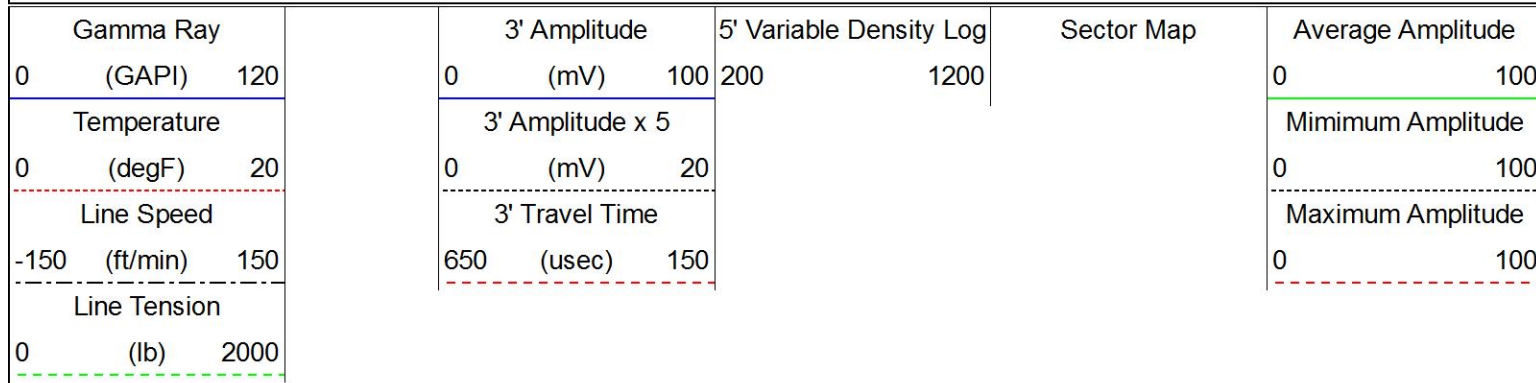


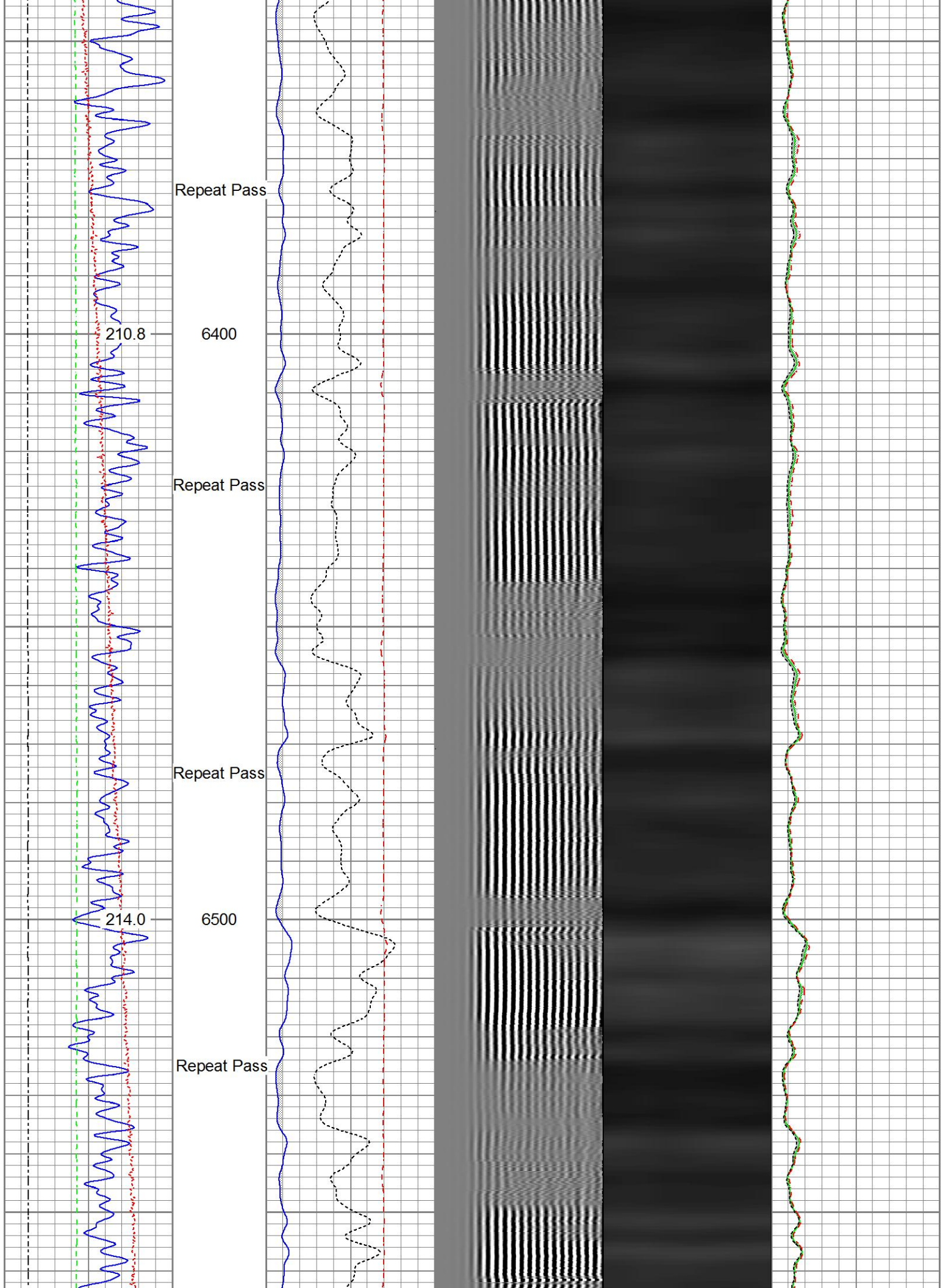


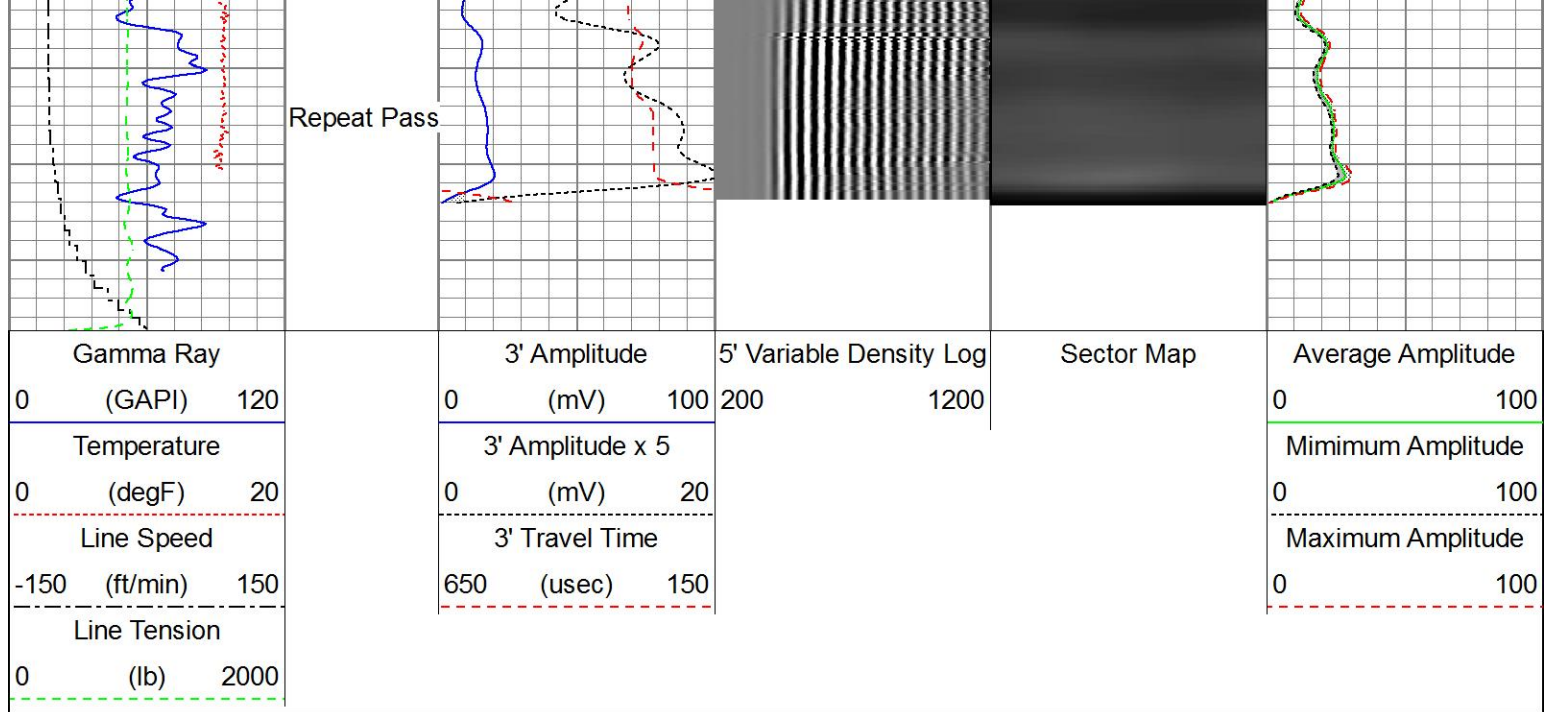




Repeat Pass Recorded With 2800 PSI Surface Induced Pressure

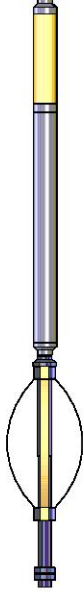
| | |
|---------------------|--|
| Database File | anadarko butterball 9n-34hz\0512344318_anadarko_butterball 9n-34hz_rbl_07-19-17.db |
| Dataset Pathname | pass2 |
| Presentation Format | ros_radri |
| Dataset Creation | Wed Jul 19 10:49:37 2017 |
| Charted by | Depth in Feet scaled 1:240 |







| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|----------|-------------|---|--|-------------|-----------|-------------|
| HeadVolt | 19.51 |  | Titan_Electric_Cable_Heads-Titan_1-11/161.03 Electric Cable Head with 1" Fishing Neck | 1.69 | 1.69 | 5.40 |
| | | | Probe_ELine_BowSpring_Centralizer-P_EE2.88_275 Probe 2-3/4" Electric Inline Bowspring Centralizer | 2.75 | 2.75 | 20.00 |
| Temp | 16.72 |  | | | | |
| WVFS8 | 14.55 | | Probe_RADII-C-P_RBT_2750 (FW1305-099.19 Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe | 2.75 | 2.75 | 105.00 |
| WVFS7 | 14.55 | | | | | |
| WVFS6 | 14.55 | | | | | |
| WVFS5 | 14.55 | | | | | |
| WVFS4 | 14.55 | | | | | |
| WVFS3 | 14.55 | | | | | |
| WVFS2 | 14.55 | | | | | |
| WVFS1 | 14.55 | | | | | |
| WVFCAL | 14.55 | | | | | |
| WVF3FT | 14.55 | | | | | |
| WVF5FT | 13.55 | | | | | |
| HEADVOLT | 10.30 | | Probe_ELine_BowSpring_Centralizer-P_EE2.88_275 Probe 2-3/4" Electric Inline Bowspring Centralizer | 2.75 | 2.75 | 20.00 |

| | | | | | |
|--|------|---|---|------|-------|
| DCCL | 6.51 |  | Probe_GR_CCL-P_CGR_2750_S (FW1304.543) Probe 2-3/4" Digital CCL / Gamma Ray Combined | 2.75 | 55.00 |
| CCL | 6.51 | | | | |
| GR | 3.77 | | | | |
| Dataset: 0512344318_Anadarko_Butterball 9N-34HZ_RBL_07-19-17.db: field/well/run1/pass4 | | | | | |
| Total length: 23.40 ft | | | | | |
| Total weight: 225.40 lb | | | | | |
| O.D.: 2.75 in | | | | | |

| Calibration Report | |
|--------------------|---|
| Database File | D:\Warrior\Data\Anadarko Butterball 9N-34HZ\0512344318_Anadarko_Butterball 9N-34HZ_RBL_07-19-17.c |
| Dataset Pathname | pass4 |
| Dataset Creation | Wed Jul 19 10:56:52 2017 |

| Gamma Ray Calibration Report | | |
|------------------------------|--------------------------|----------|
| Serial Number: | FW1307-038 | |
| Tool Model: | P_CGR_2750_S | |
| Performed: | Sat Feb 06 11:43:09 2016 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.6 | cps |
| Sensitivity: | 0.6061 | GAPI/cps |

| Segmented Cement Bond Log Calibration Report | | |
|--|------------|----|
| Serial Number: | FW1305-096 | |
| Tool Model: | P_RBT_2750 | |
| Calibration Casing Diameter: | 5.500 | in |
| Calibration Depth: | 93.089 | ft |

| Master Calibration, performed Wed Jul 19 08:16:22 2017: | | | | | | |
|---|---------|-------|-----------------|---------|---------|--------|
| | Raw (v) | | Calibrated (mv) | | Results | |
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.002 | 0.604 | 0.800 | 71.921 | 118.194 | 0.514 |
| CAL | 0.002 | 0.631 | | | | |
| 5' | 0.002 | 0.581 | 0.800 | 71.921 | 122.852 | 0.526 |
| SUM | | | | | | |
| S1 | 0.002 | 0.599 | 0.000 | 100.000 | 167.341 | -0.292 |
| S2 | 0.002 | 0.596 | 0.000 | 100.000 | 168.490 | -0.339 |
| S3 | 0.002 | 0.591 | 0.000 | 100.000 | 170.011 | -0.392 |
| S4 | 0.002 | 0.591 | 0.000 | 100.000 | 169.800 | -0.400 |
| S5 | 0.002 | 0.600 | 0.000 | 100.000 | 167.327 | -0.388 |

| | | | | | | |
|----|-------|-------|-------|---------|---------|--------|
| S5 | 0.002 | 0.605 | 0.000 | 100.000 | 165.927 | -0.393 |
| S6 | 0.002 | 0.605 | 0.000 | 100.000 | 165.917 | -0.393 |
| S7 | 0.002 | 0.608 | 0.000 | 100.000 | 165.171 | -0.397 |
| S8 | 0.002 | 0.608 | 0.000 | 100.000 | 165.201 | -0.397 |

Internal Reference Calibration, performed (Not Performed):

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.002 | 0.631 | 1.000 | 0.000 |

Air Zero Calibration, performed Wed Jul 19 08:16:43 2017:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|--|----------------|--|---------|--|
| | Zero | | Zero | | Offset | |
| 3' | 0.002 | | 0.000 | | 0.000 | |
| 5' | 0.002 | | 0.000 | | -0.000 | |
| SUM | | | | | | |
| S1 | 0.002 | | 0.000 | | 0.000 | |
| S2 | 0.002 | | 0.000 | | 0.000 | |
| S3 | 0.002 | | 0.000 | | 0.000 | |
| S4 | 0.002 | | 0.000 | | 0.000 | |
| S5 | 0.002 | | 0.000 | | 0.000 | |
| S6 | 0.002 | | 0.000 | | 0.000 | |
| S7 | 0.002 | | 0.000 | | 0.000 | |
| S8 | 0.002 | | 0.000 | | 0.000 | |



Company Kerr-McGee Oil & Gas Onshore, L.P.
 Well Butterball 9N-34HZ
 Field Wattenberg
 County Weld
 State Colorado