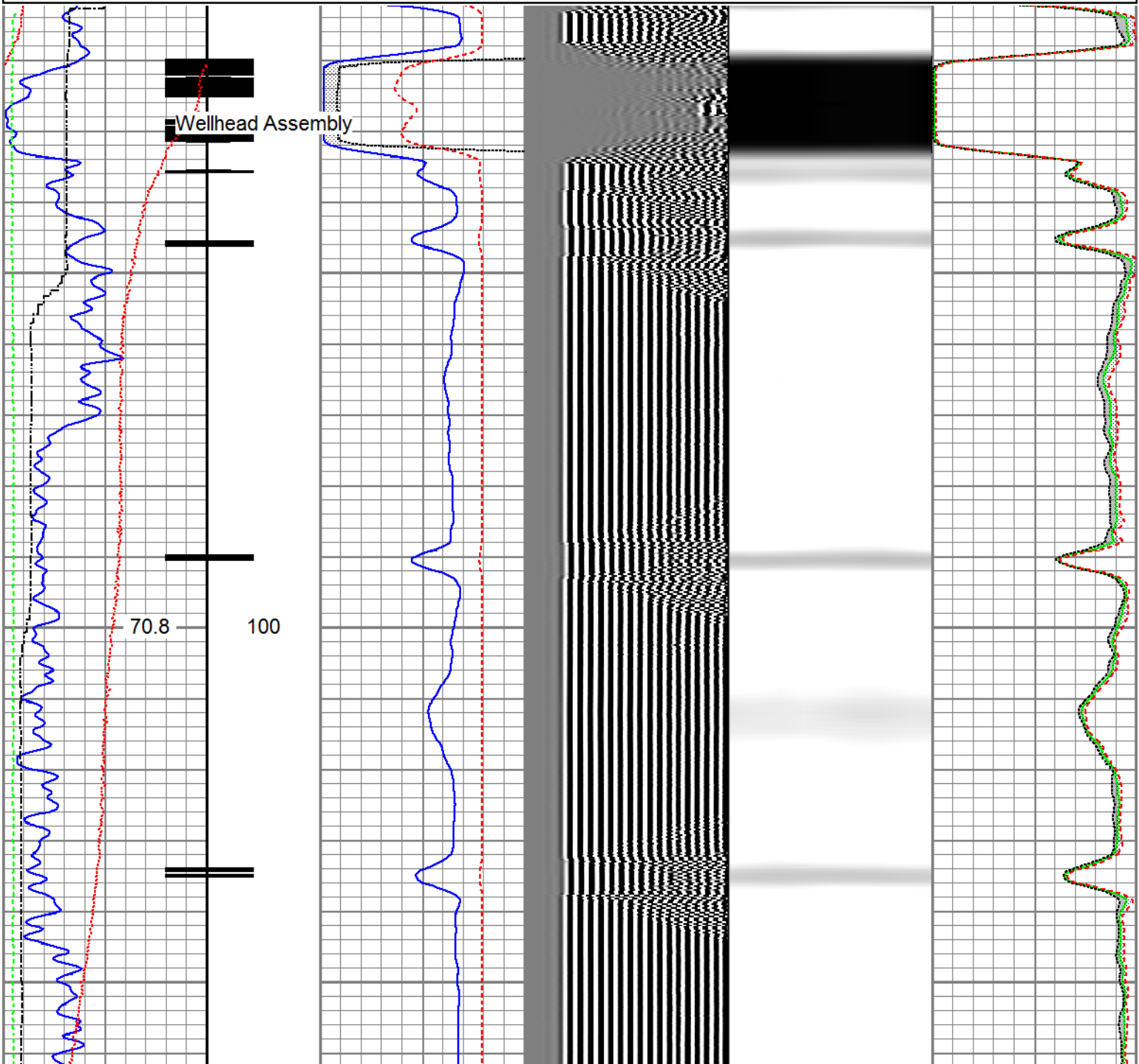


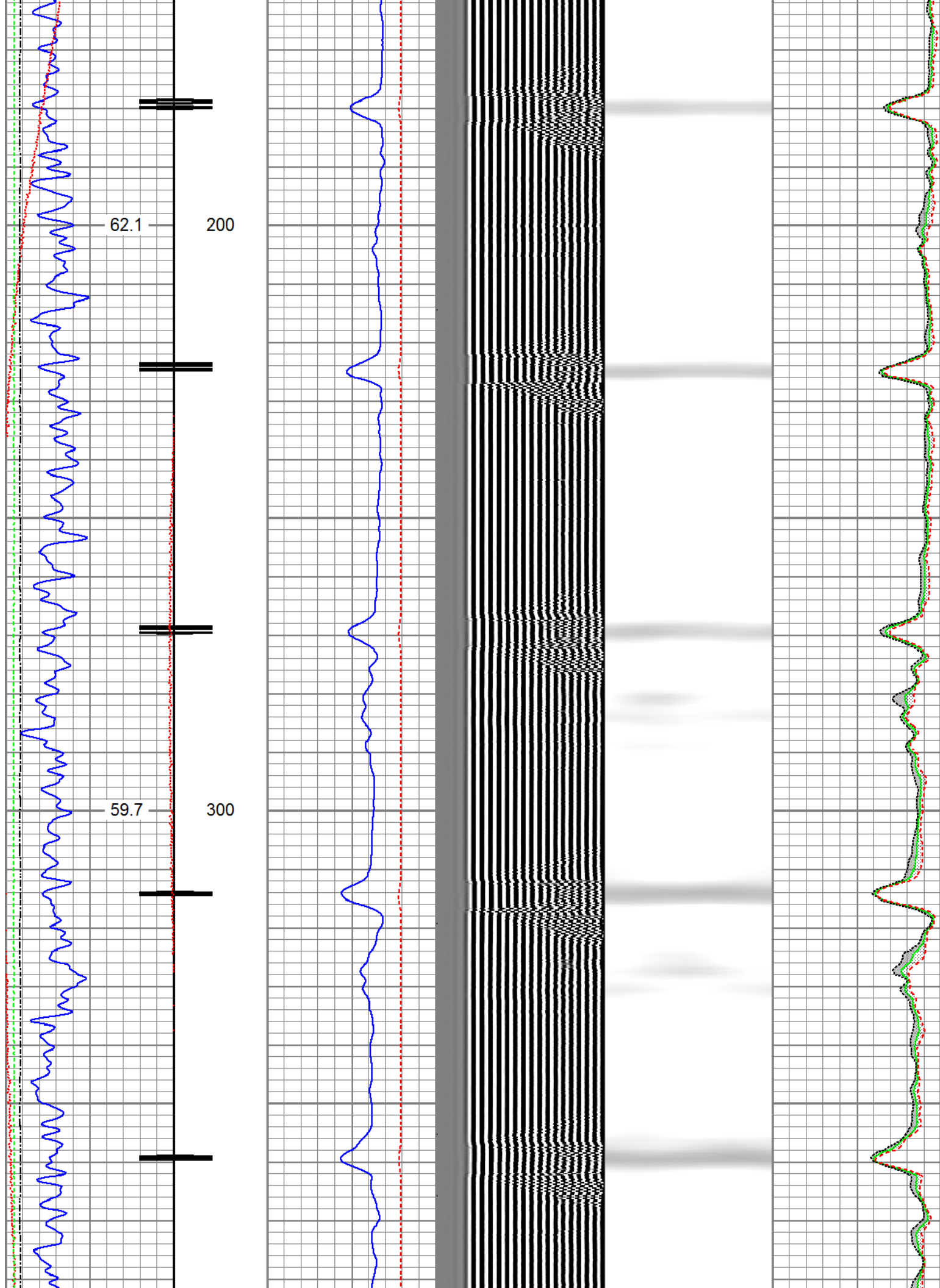


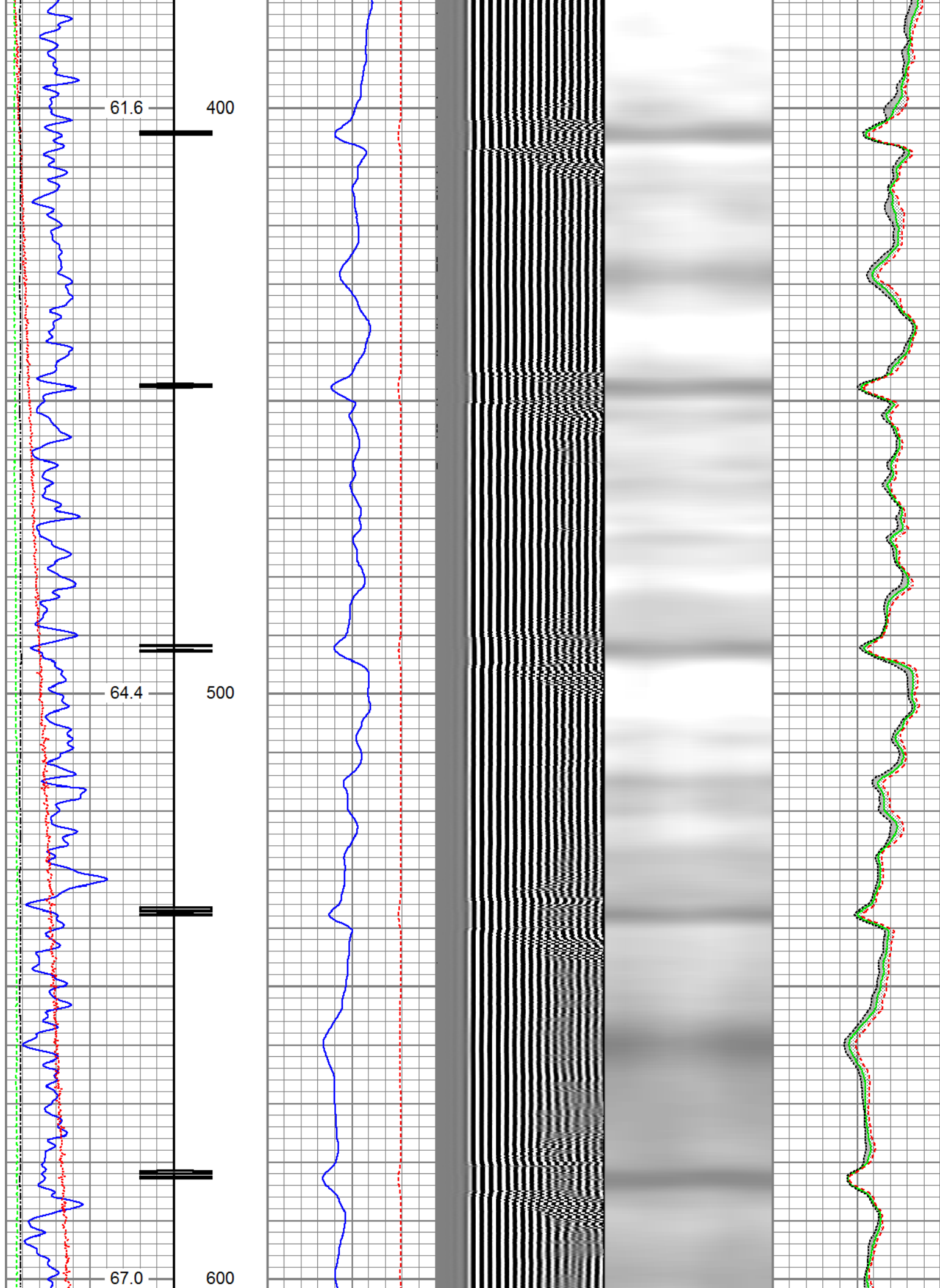
Recorded With 2800 PSI of Surface Induced Pressure

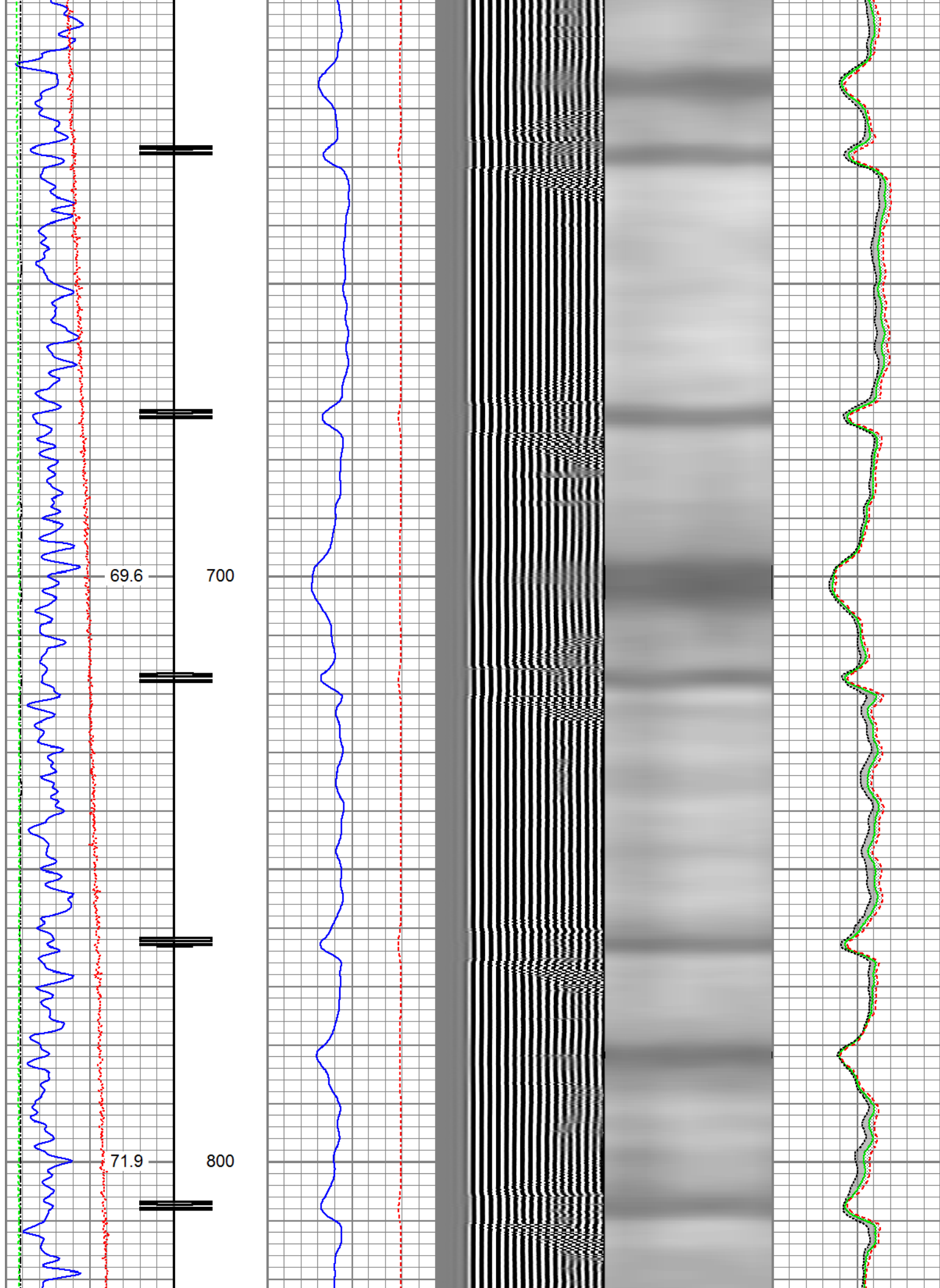
| | |
|---------------------|--|
| Database File | anadarko_puma fed 13c-35hz_15-may-2017_rbl\processed_0512342566_anadarko_puma fed 13c- |
| Dataset Pathname | pass4 |
| Presentation Format | ros_radrii |
| Dataset Creation | Mon May 15 16:35:03 2017 |
| Charted by | Depth in Feet scaled 1:240 |

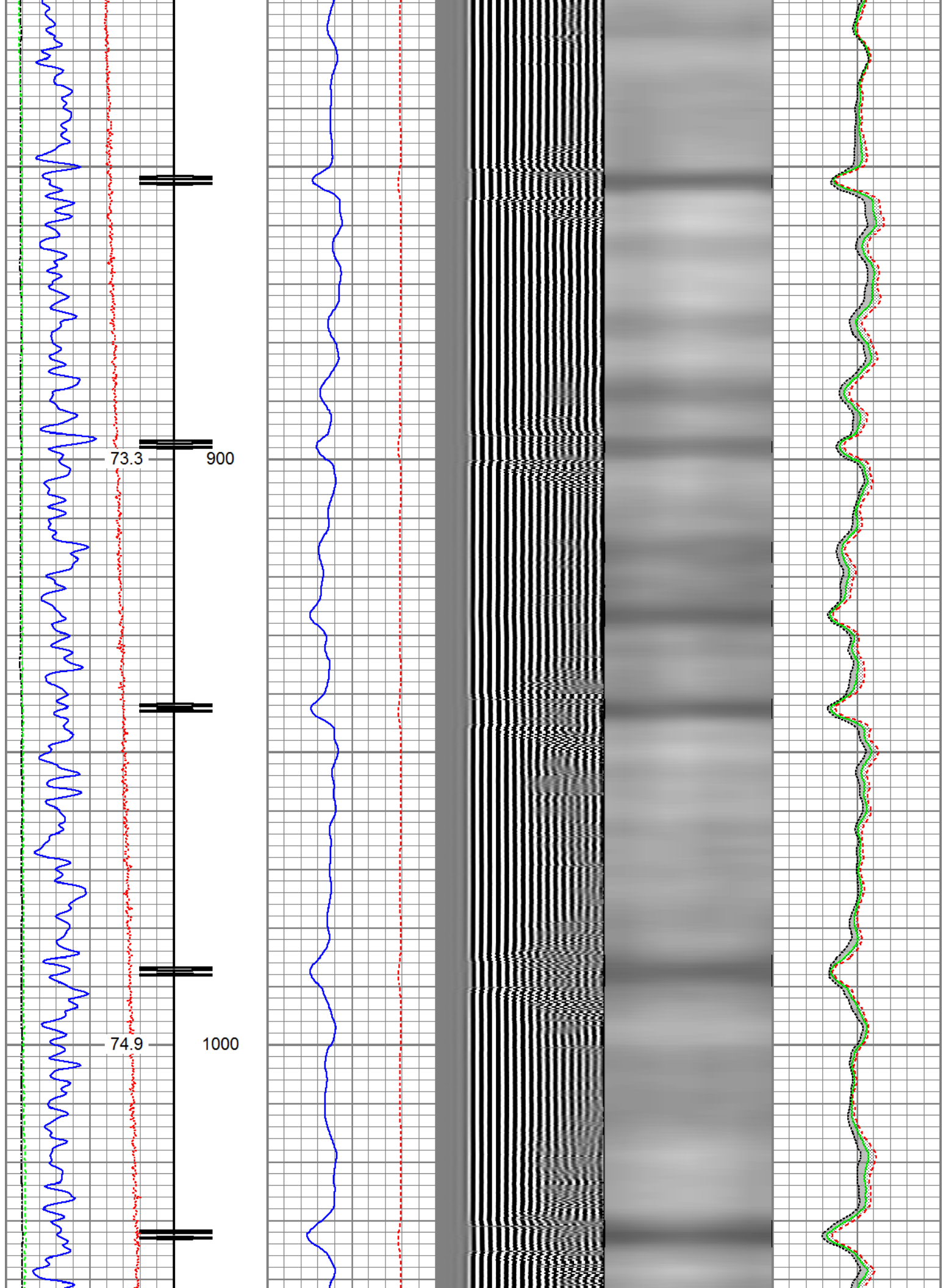
| | | | | |
|-----------------------|------------------|-------------------------|------------|-------------------|
| Gamma Ray | 3' Amplitude | 5' Variable Density Log | Sector Map | Average Amplitude |
| 0 (GAPI) 120 | 0 (mV) 100 | 200 1200 | | 0 100 |
| Casing Collar Locator | 3' Amplitude x 5 | |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

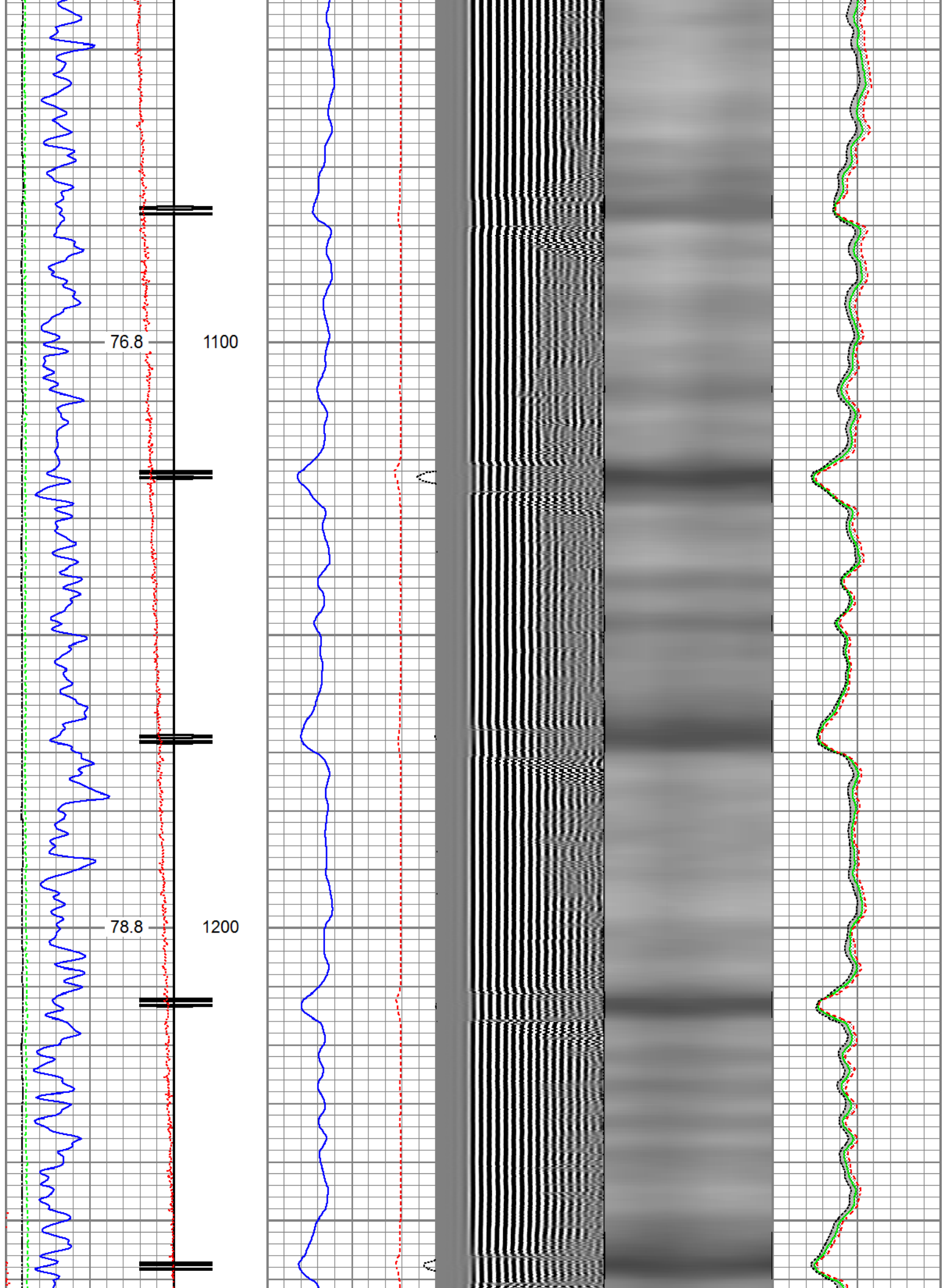


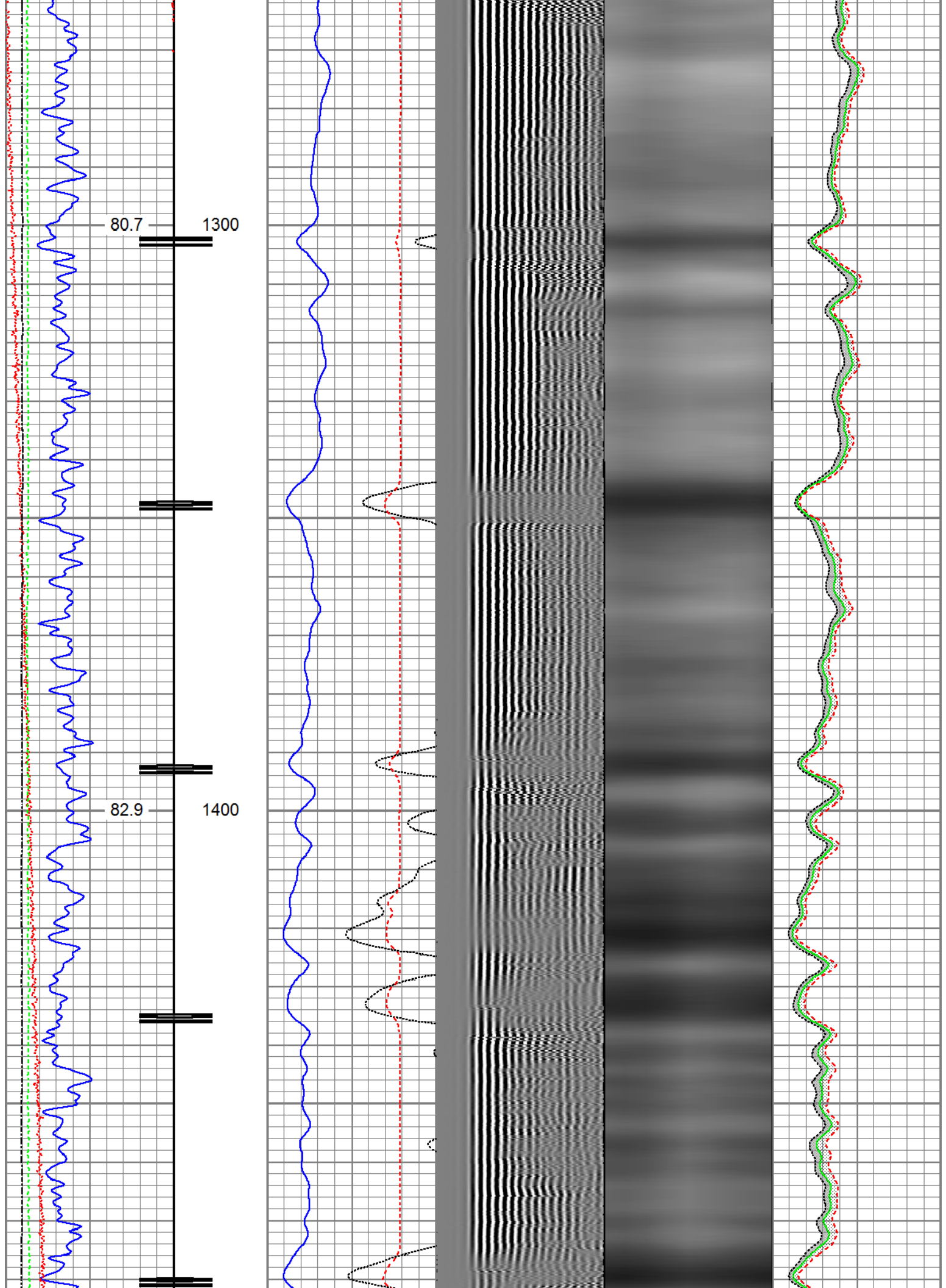


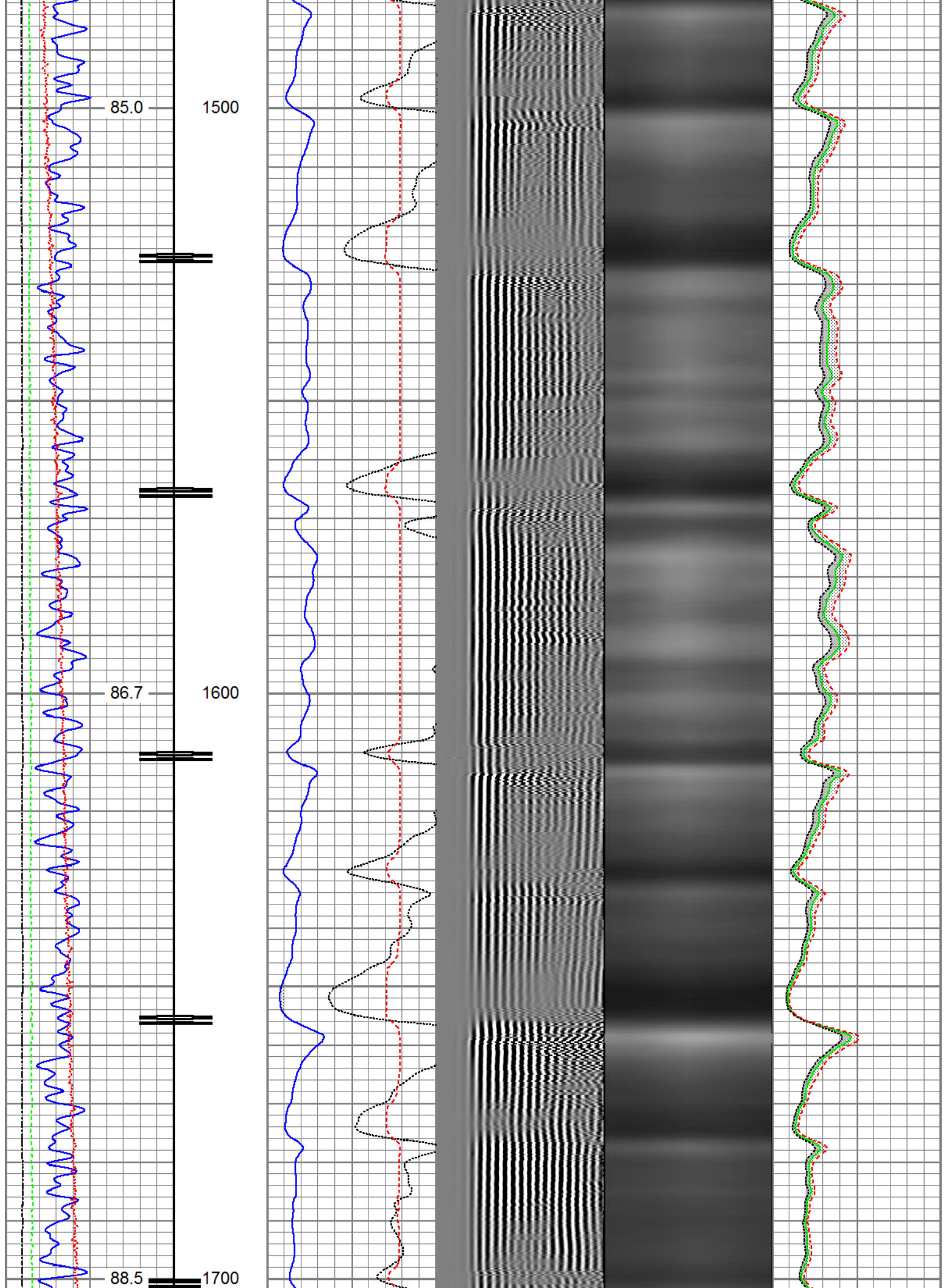


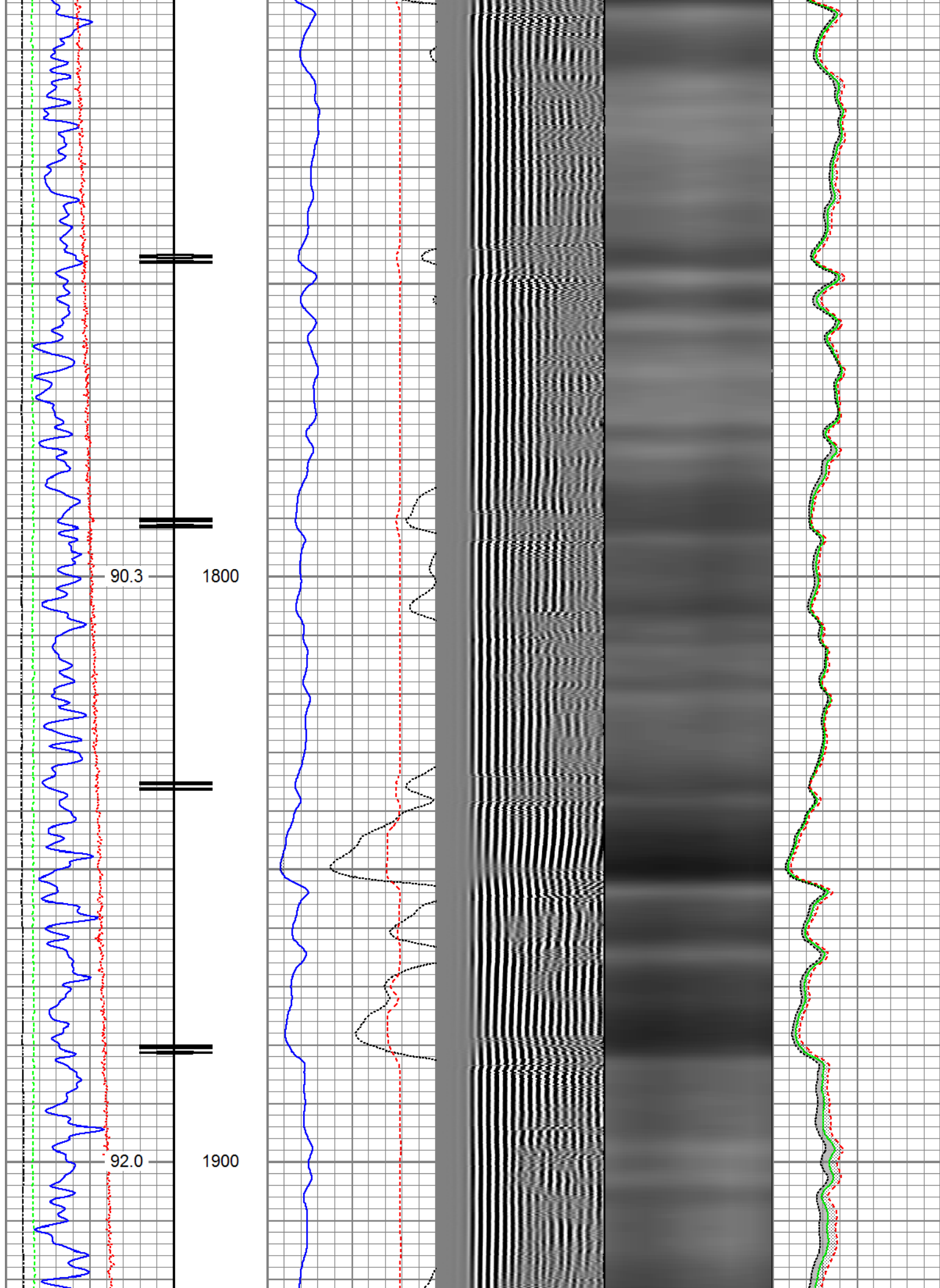


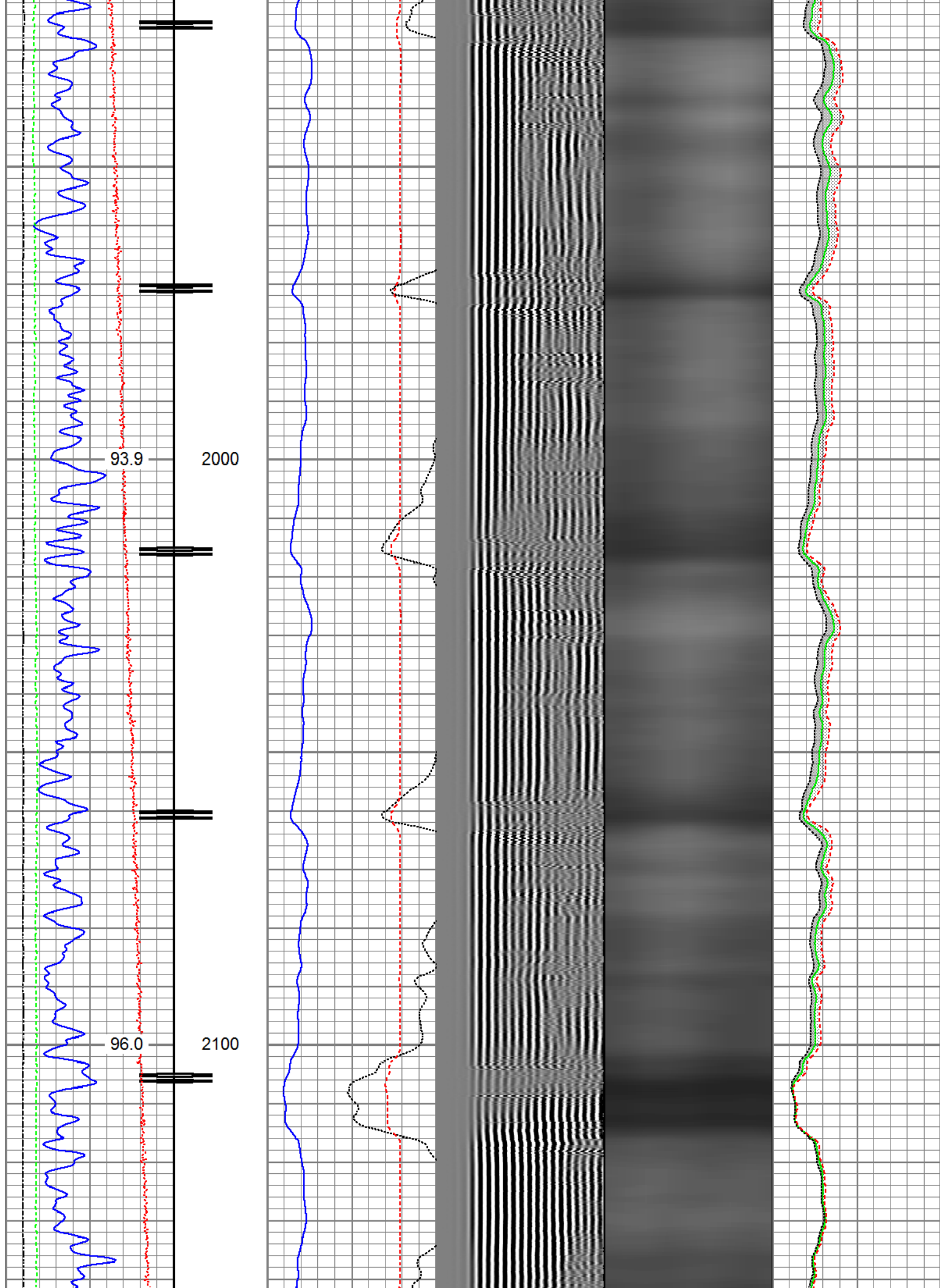


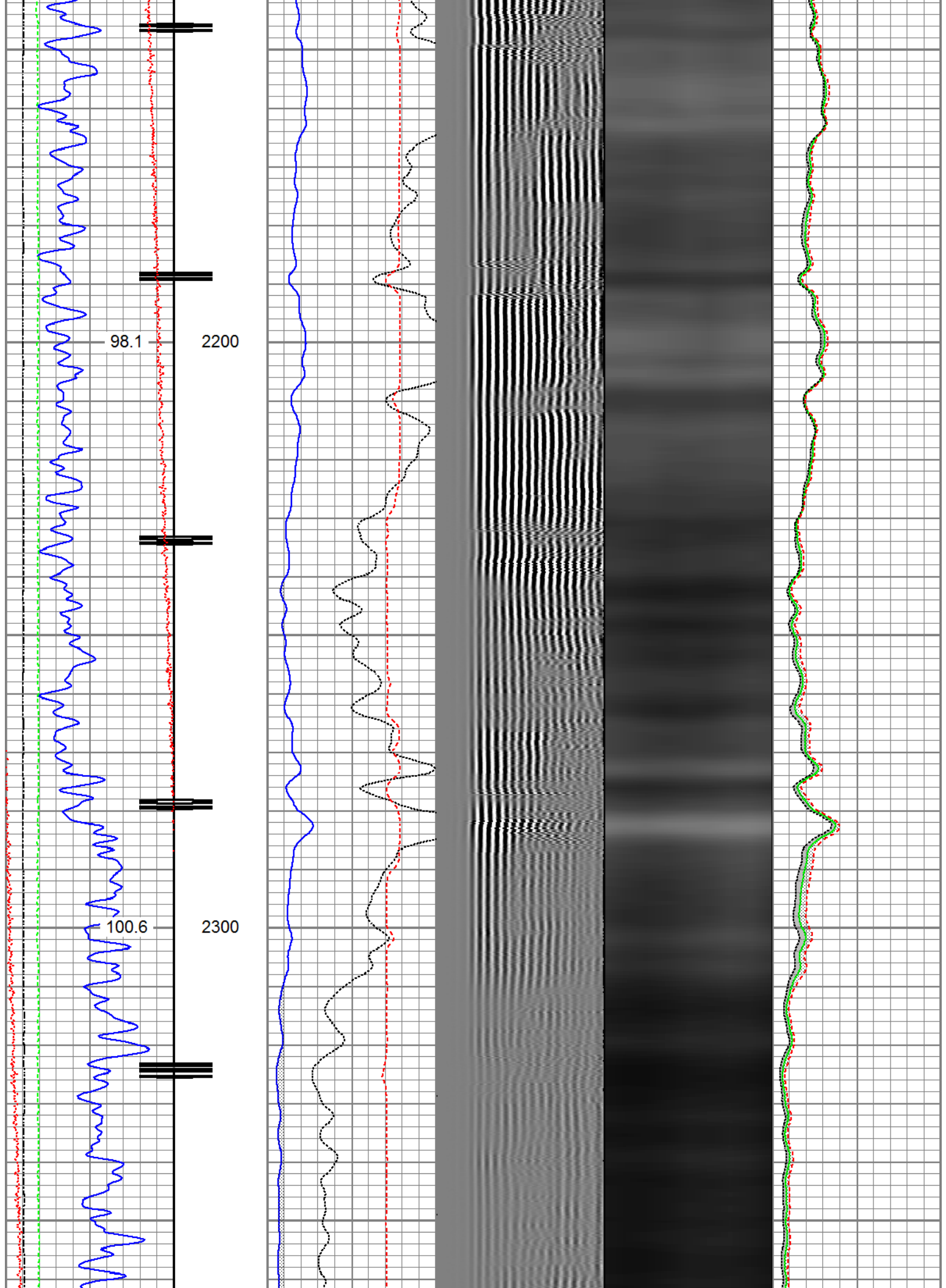


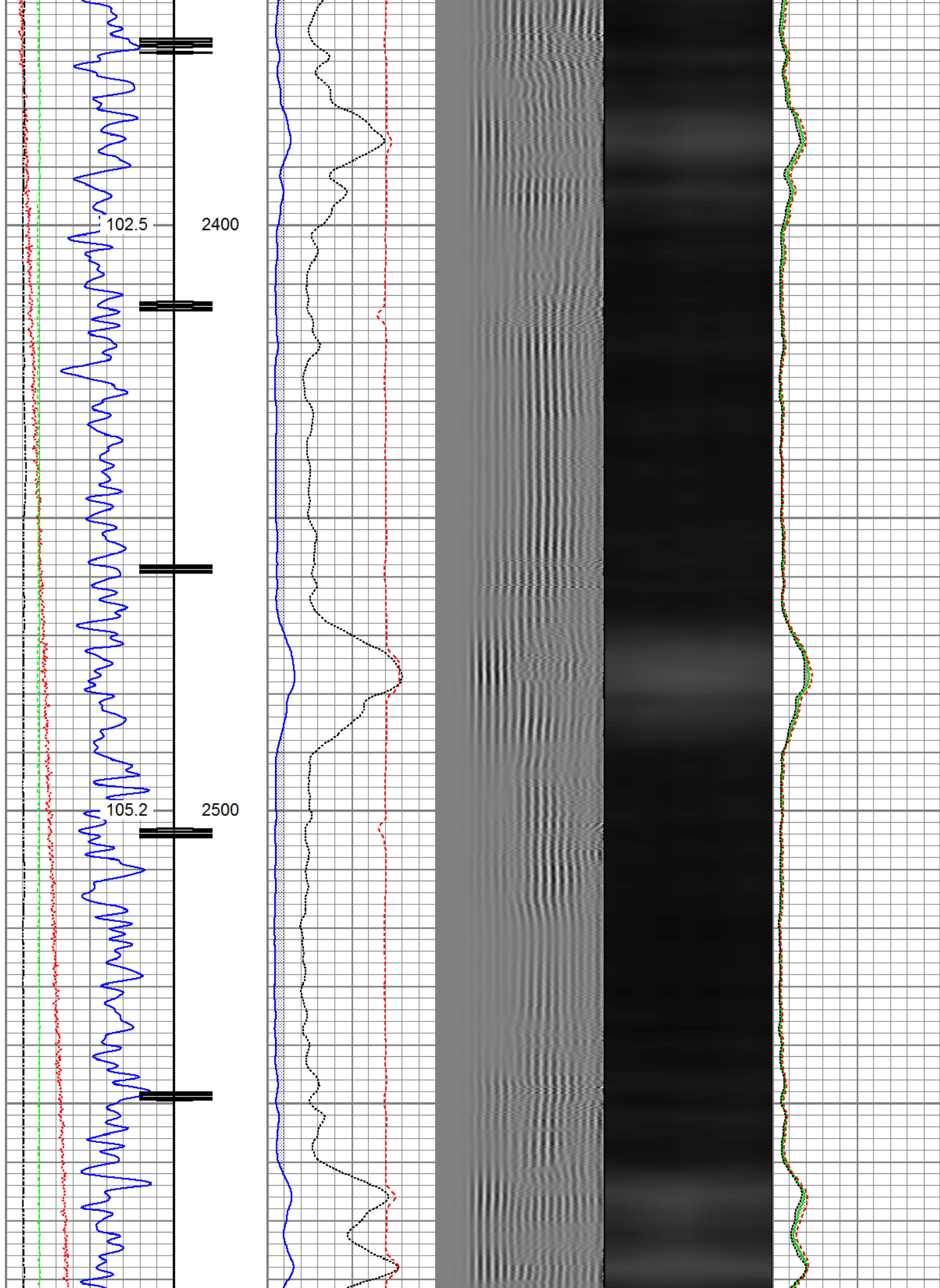


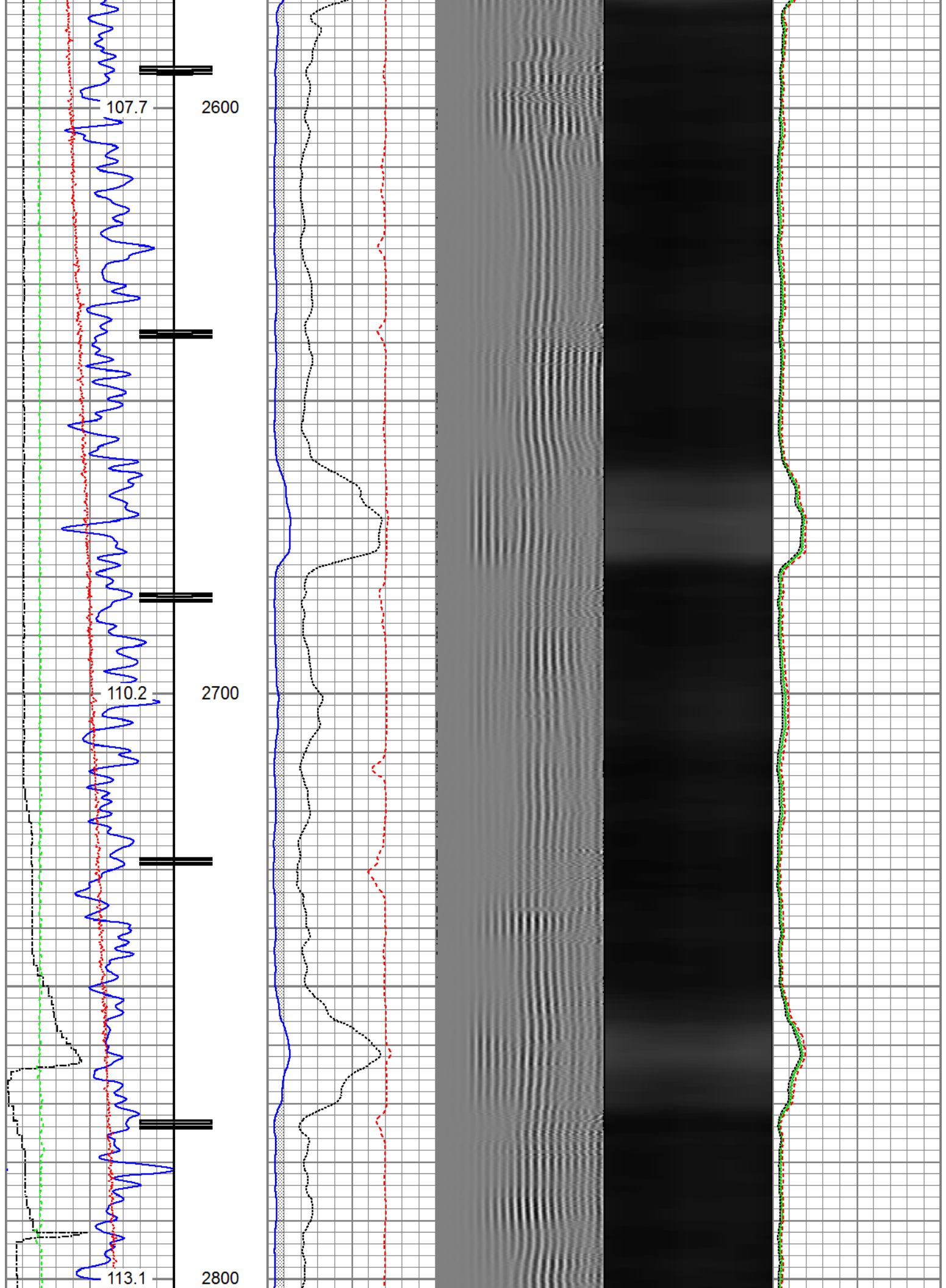


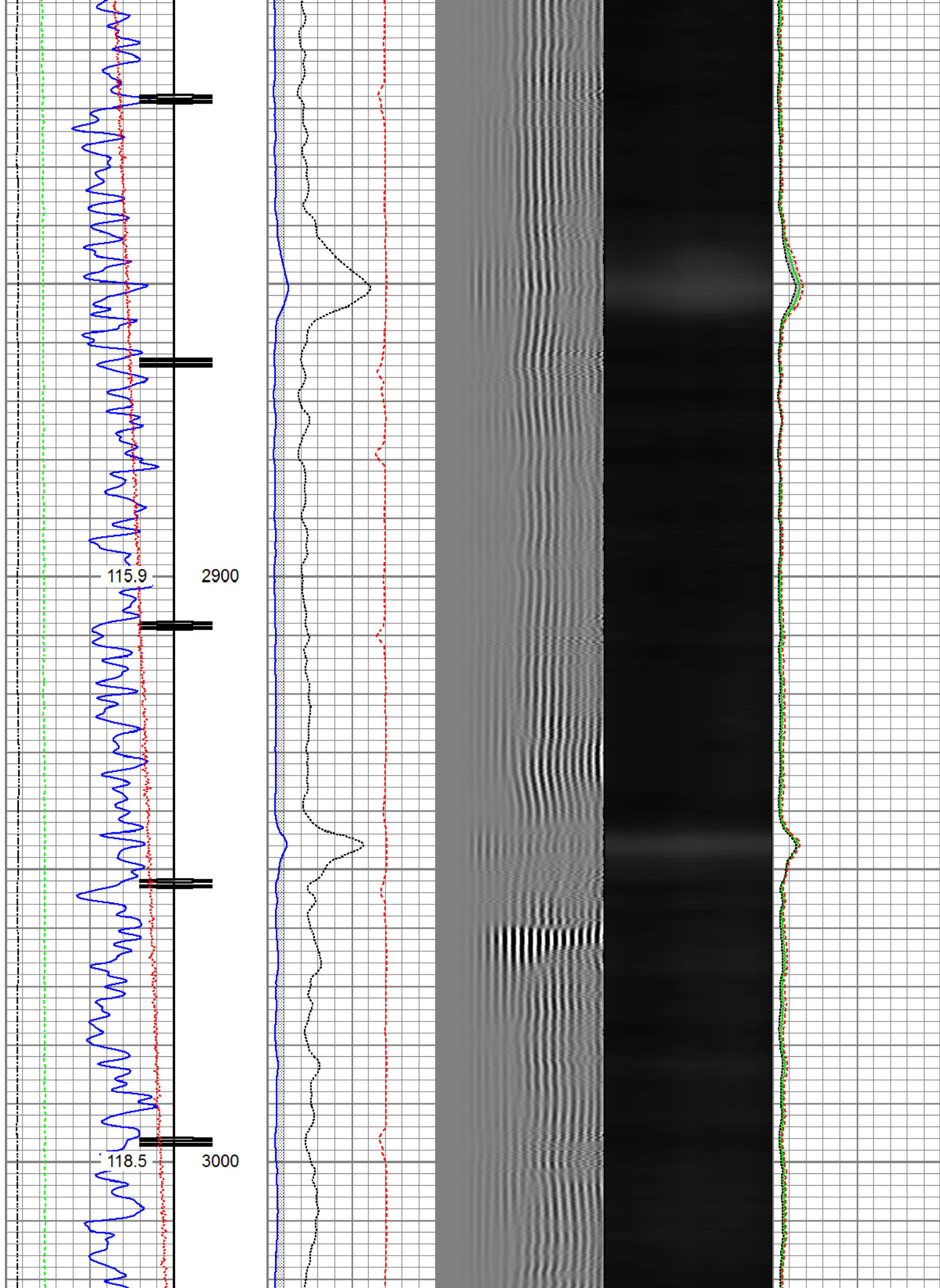


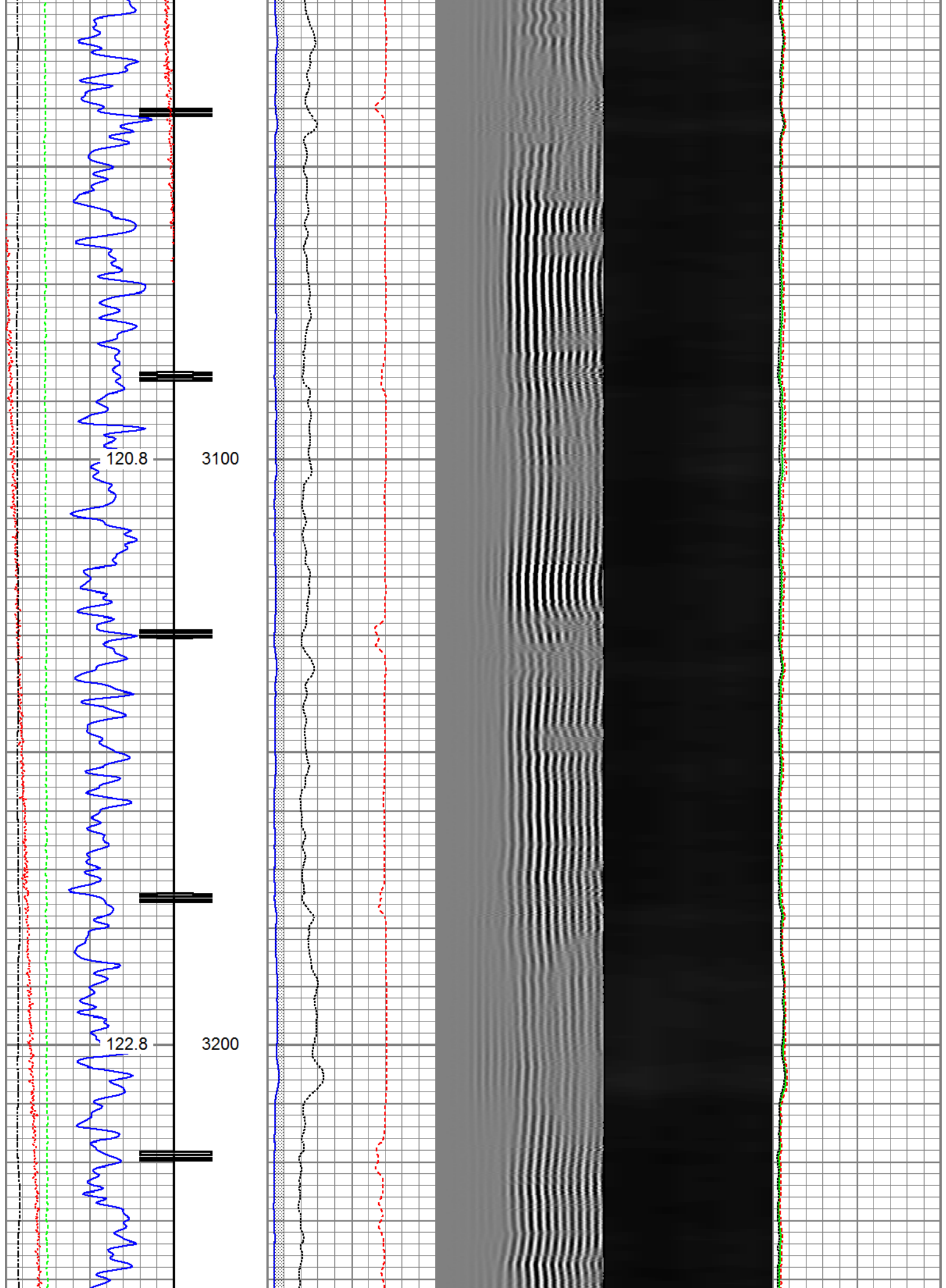


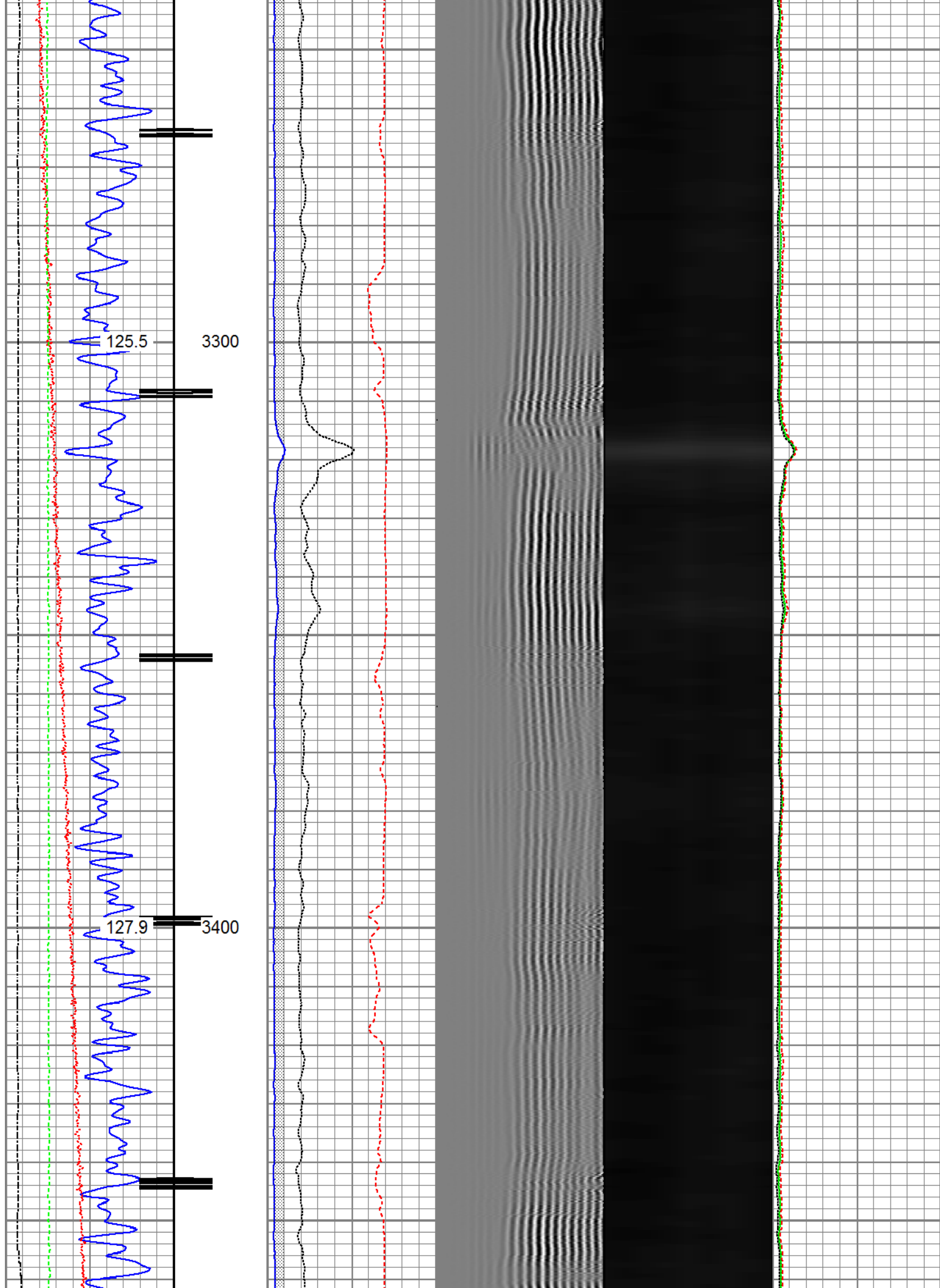


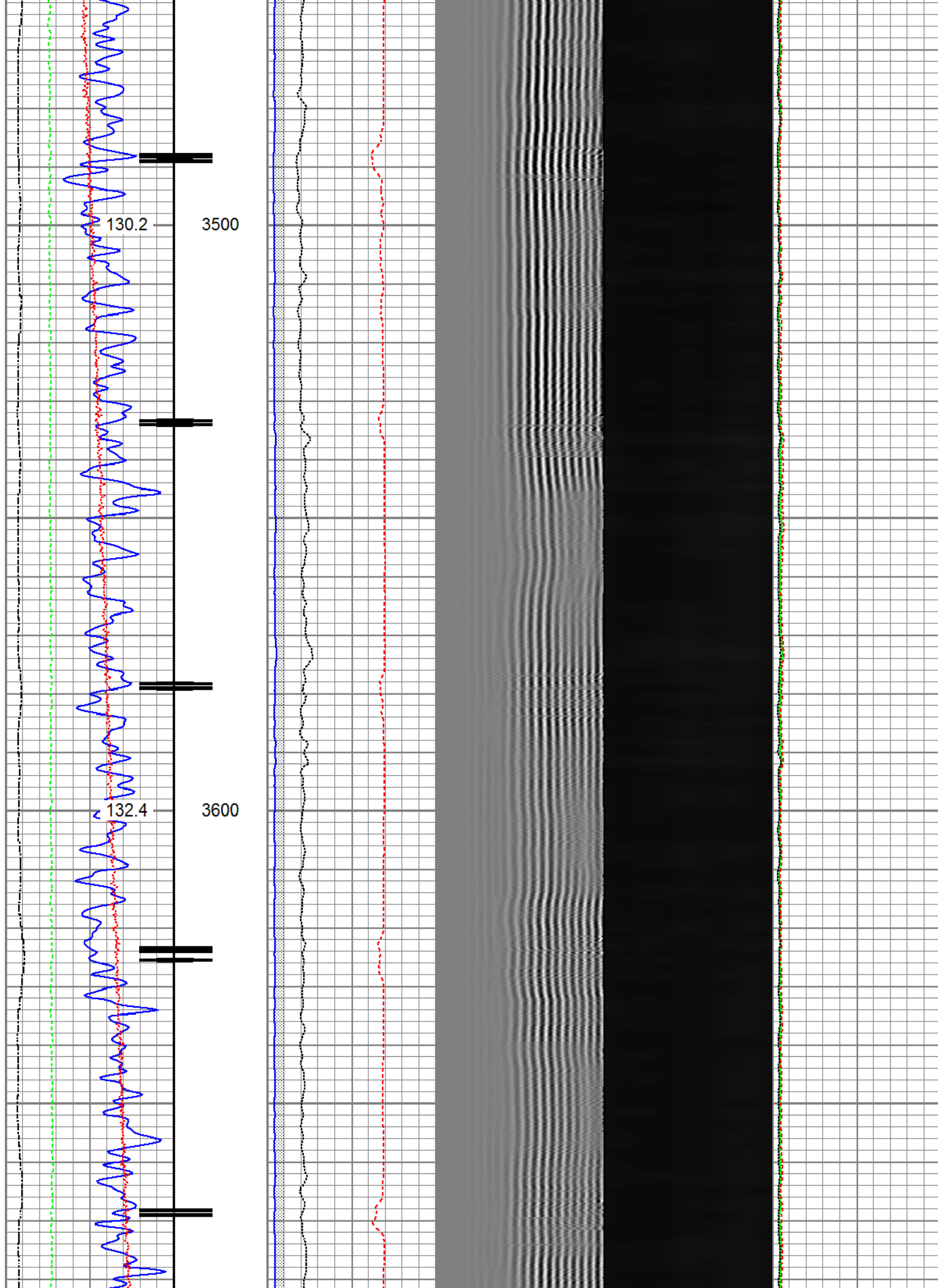


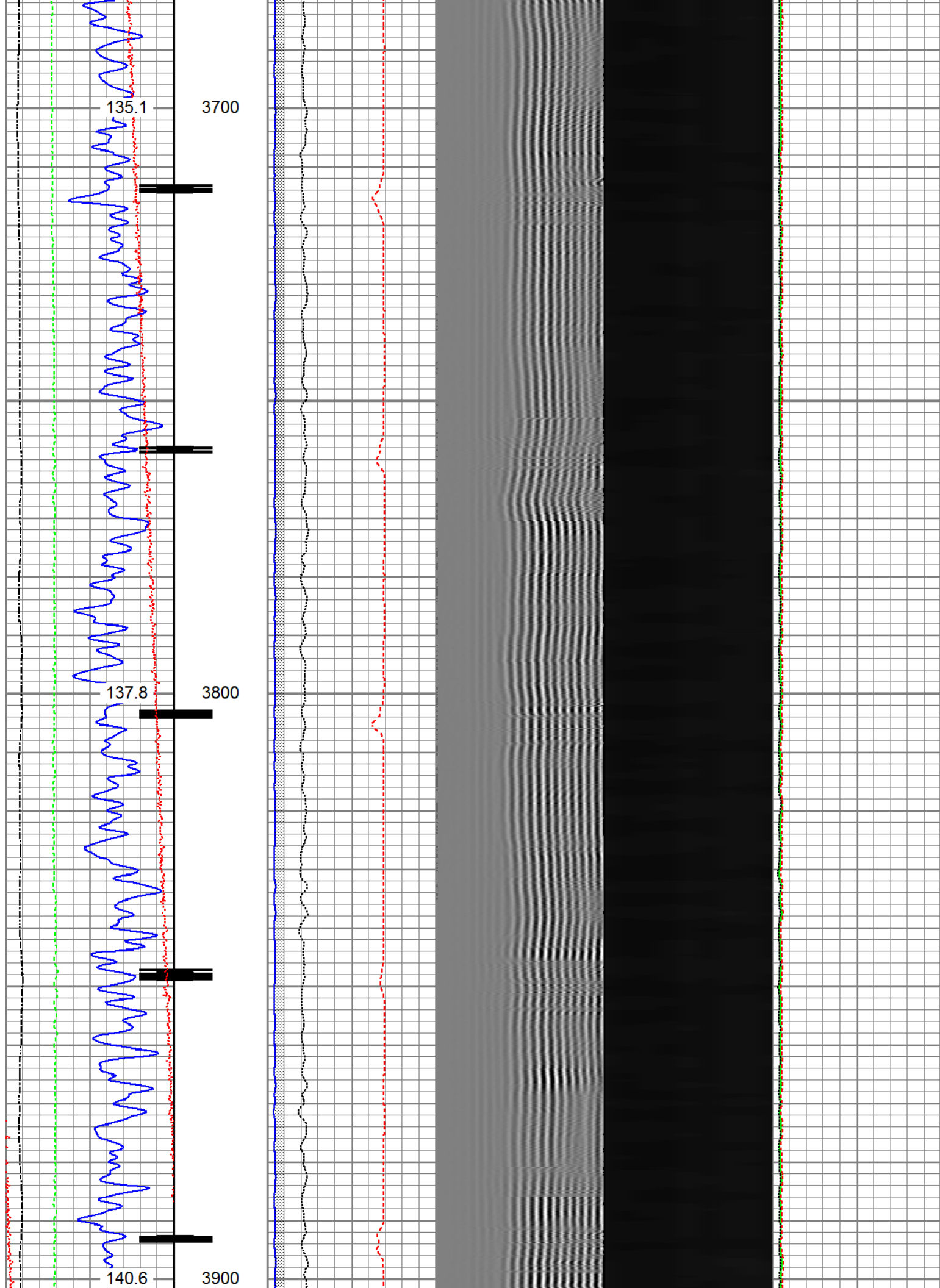


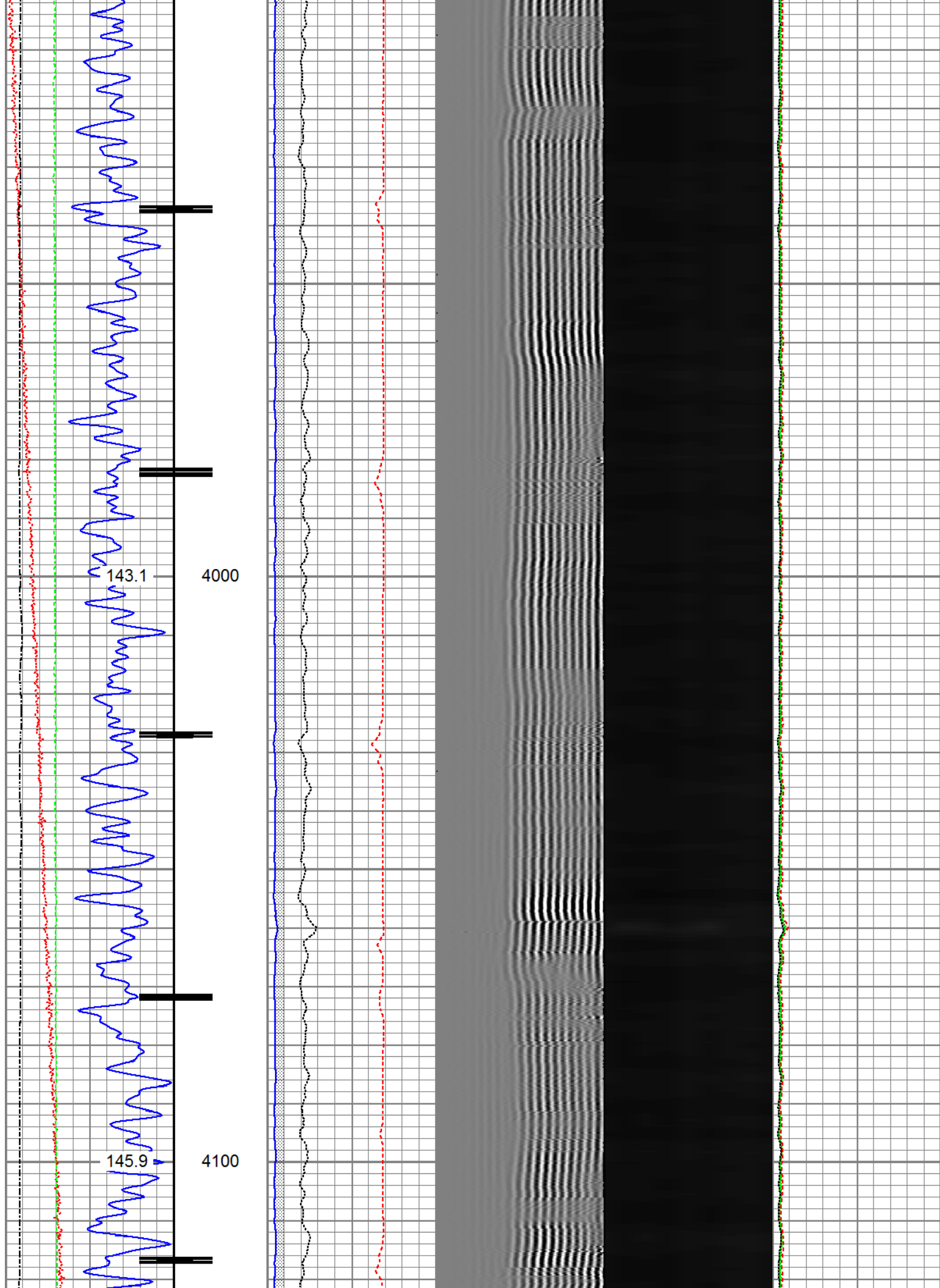


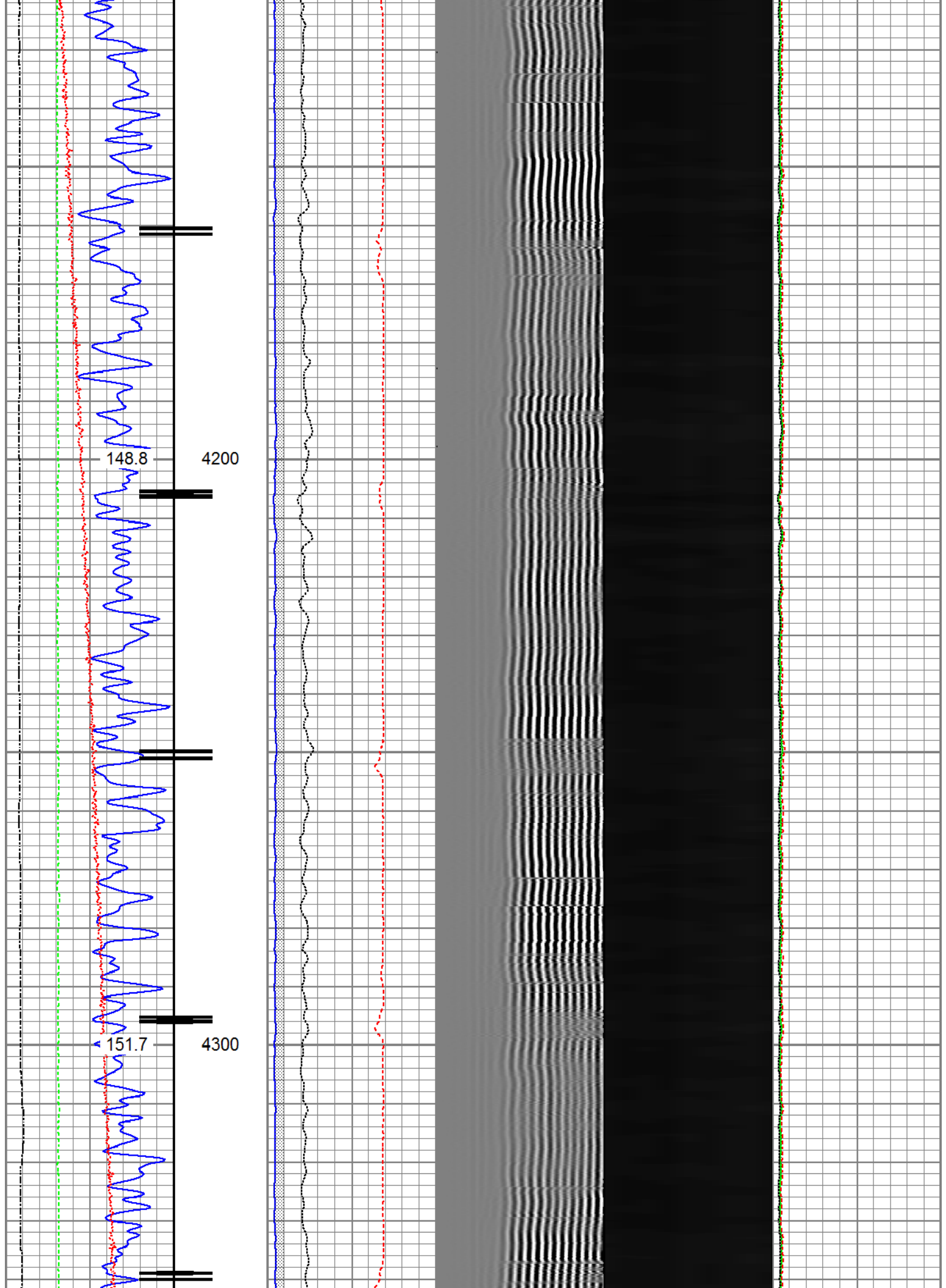


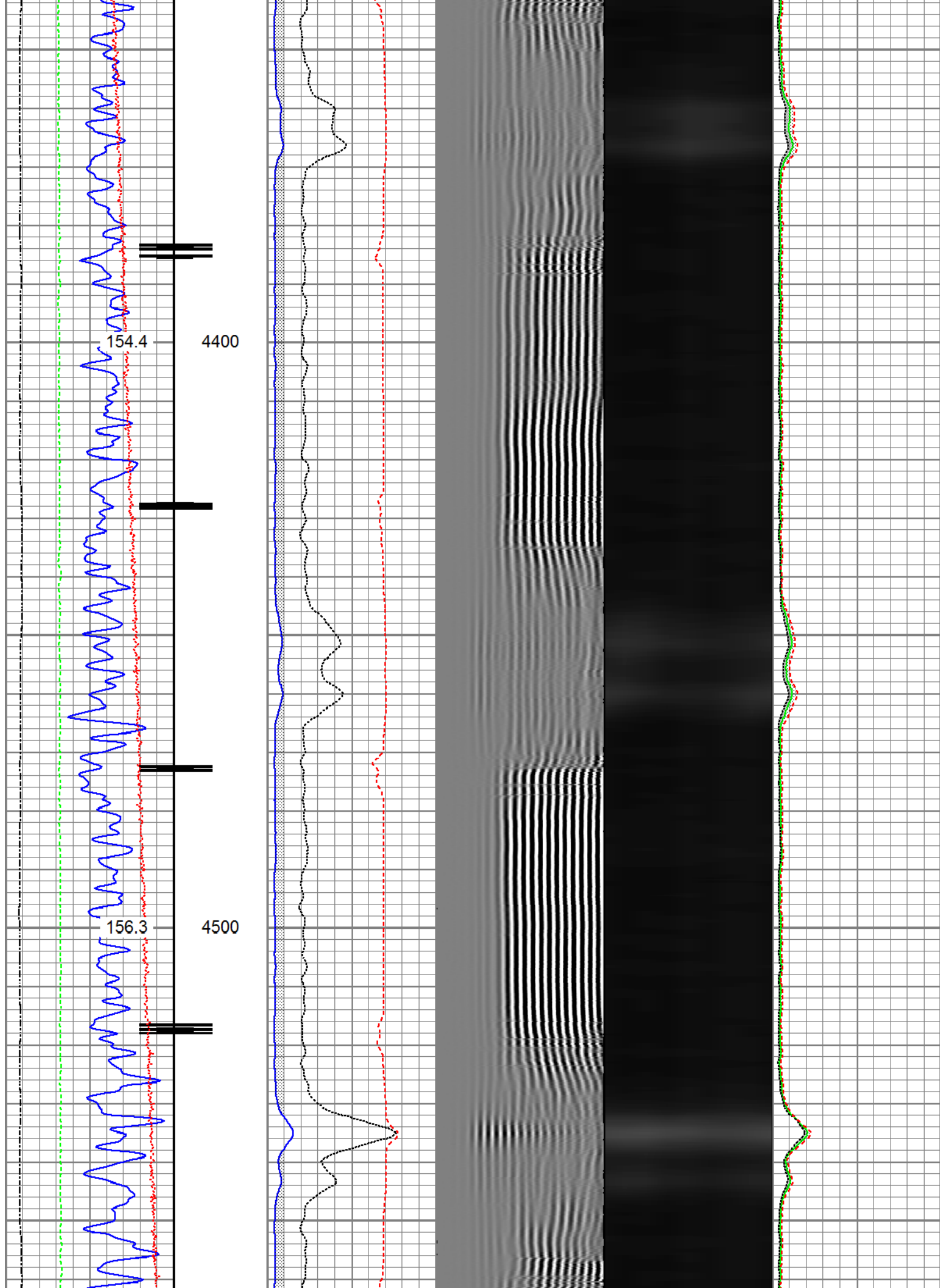


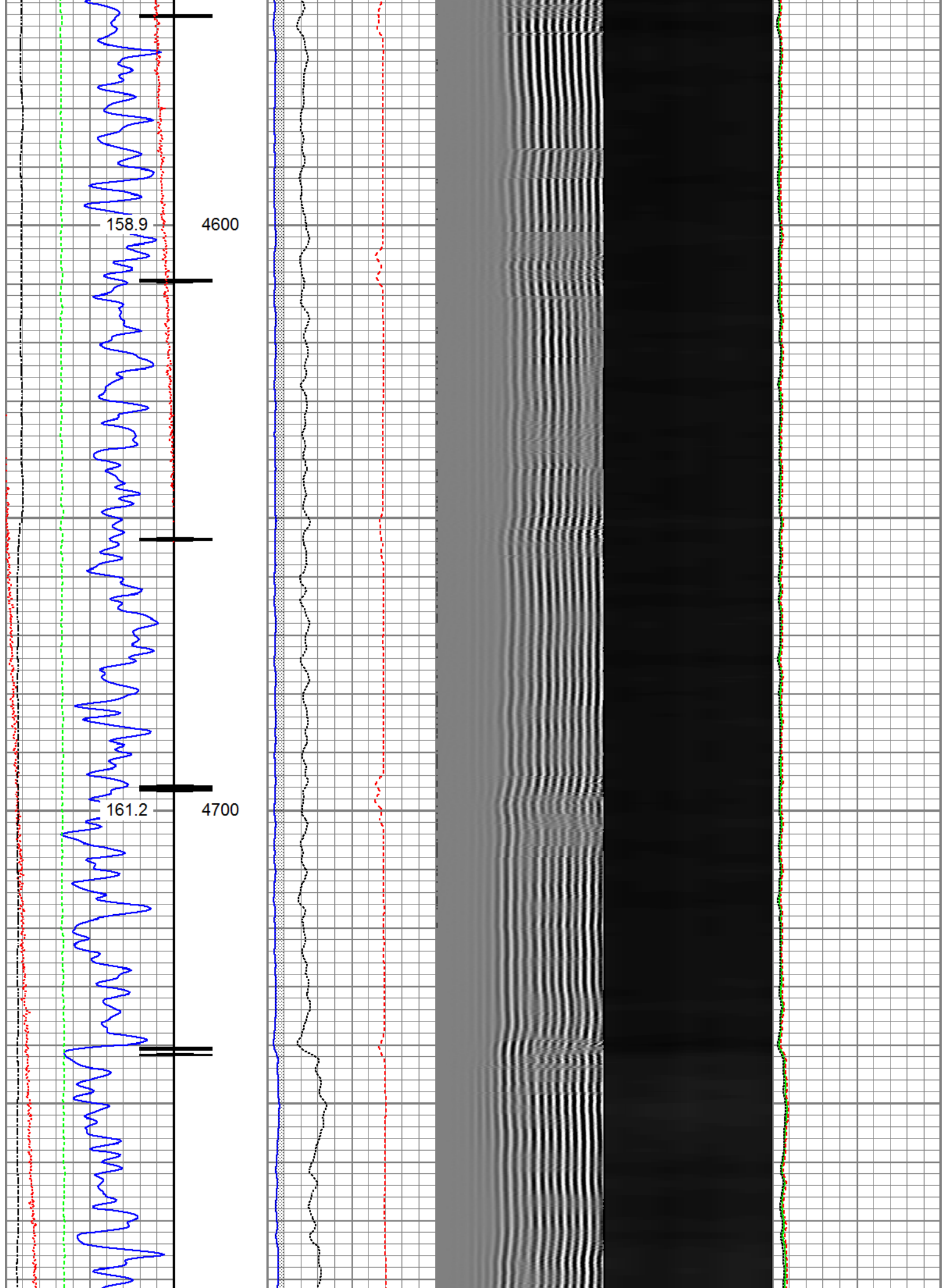


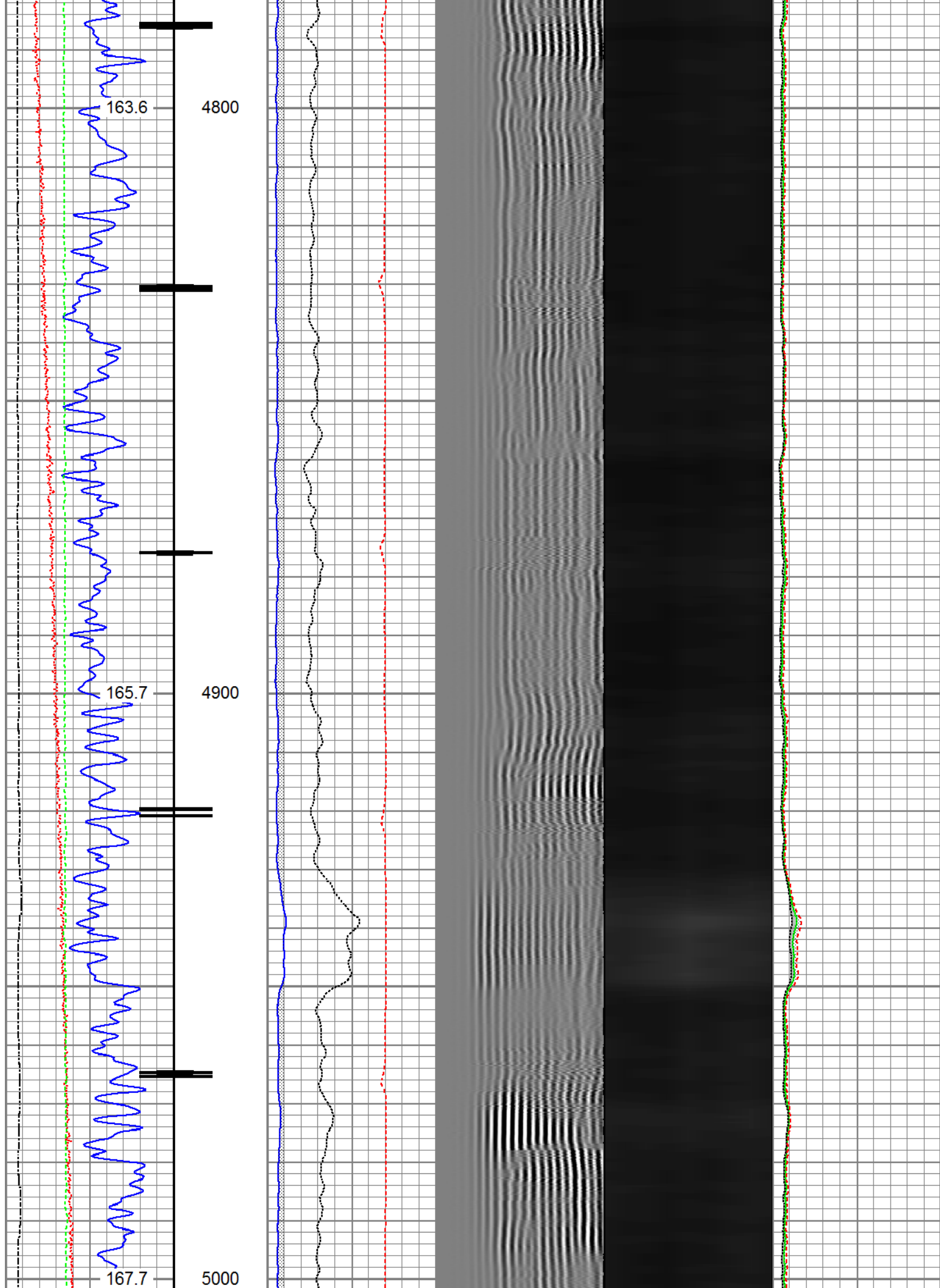


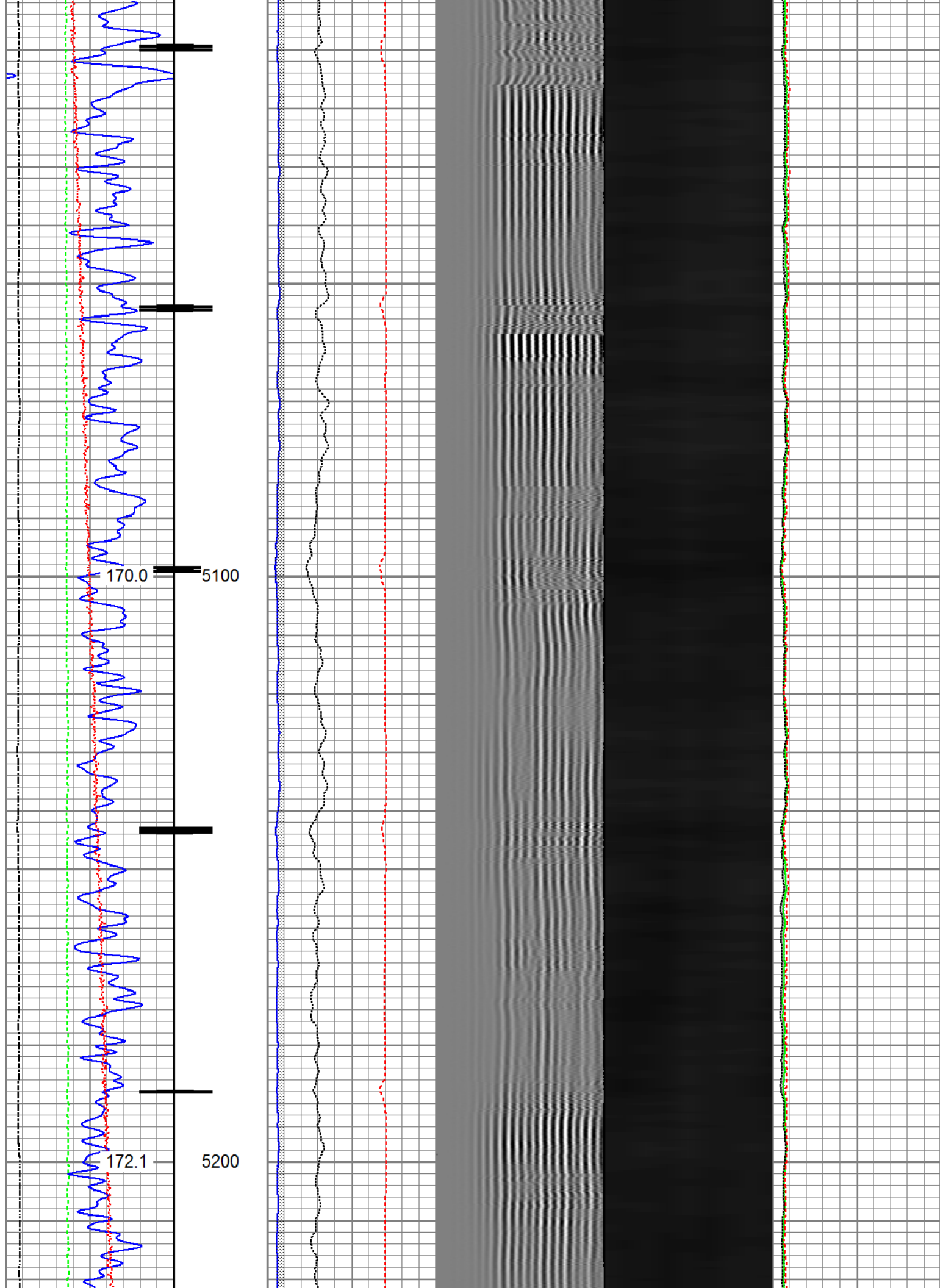


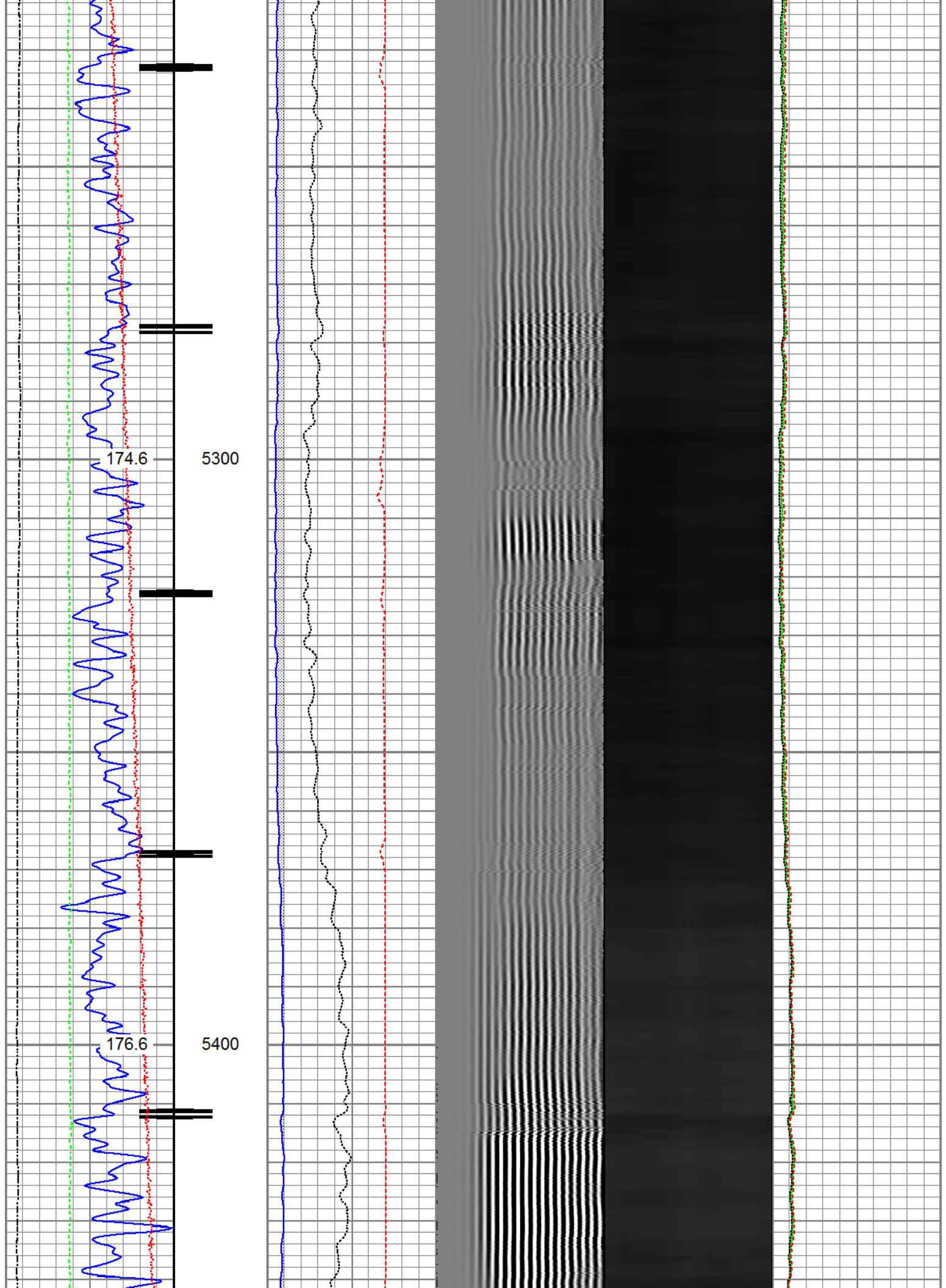


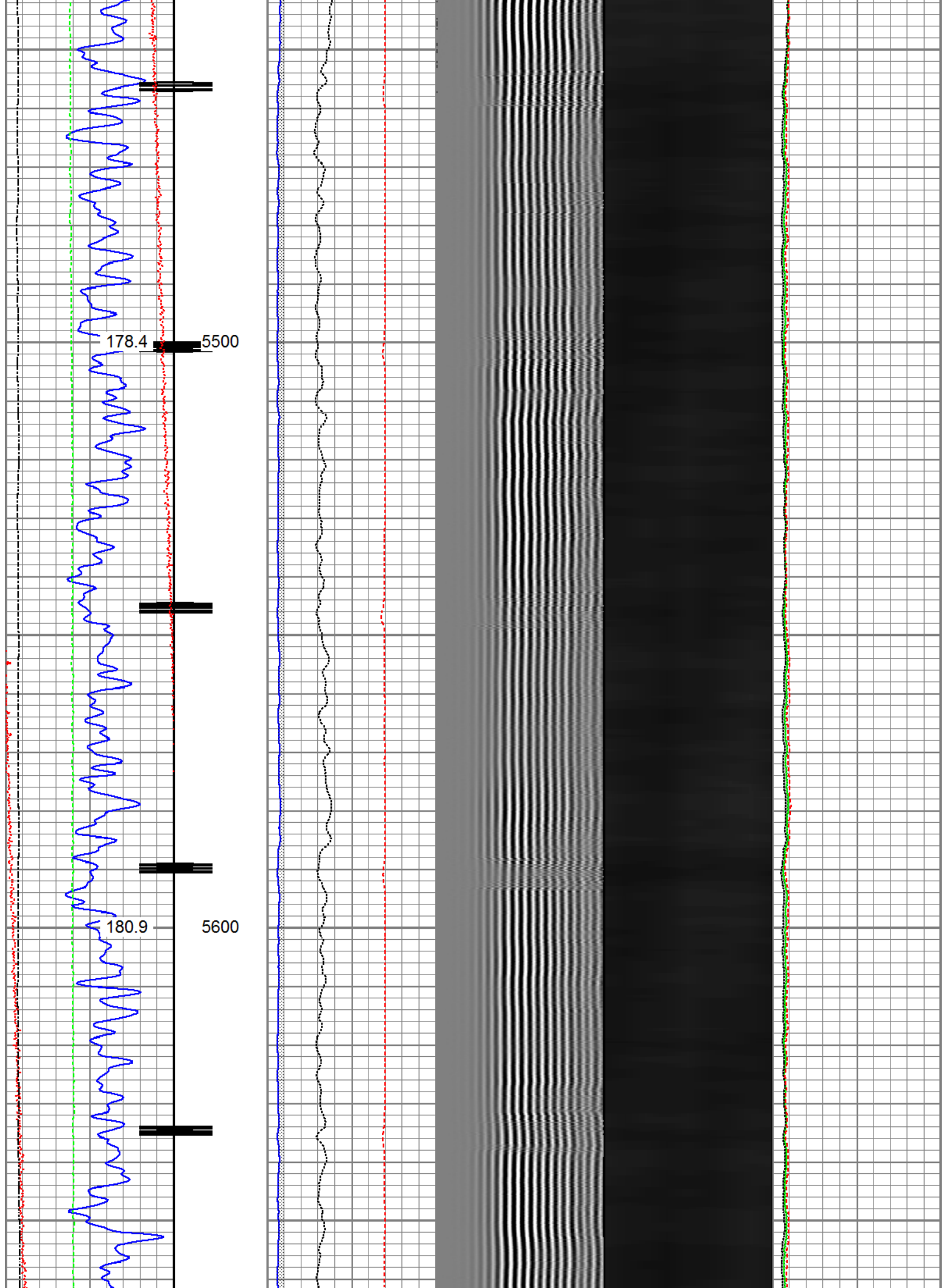


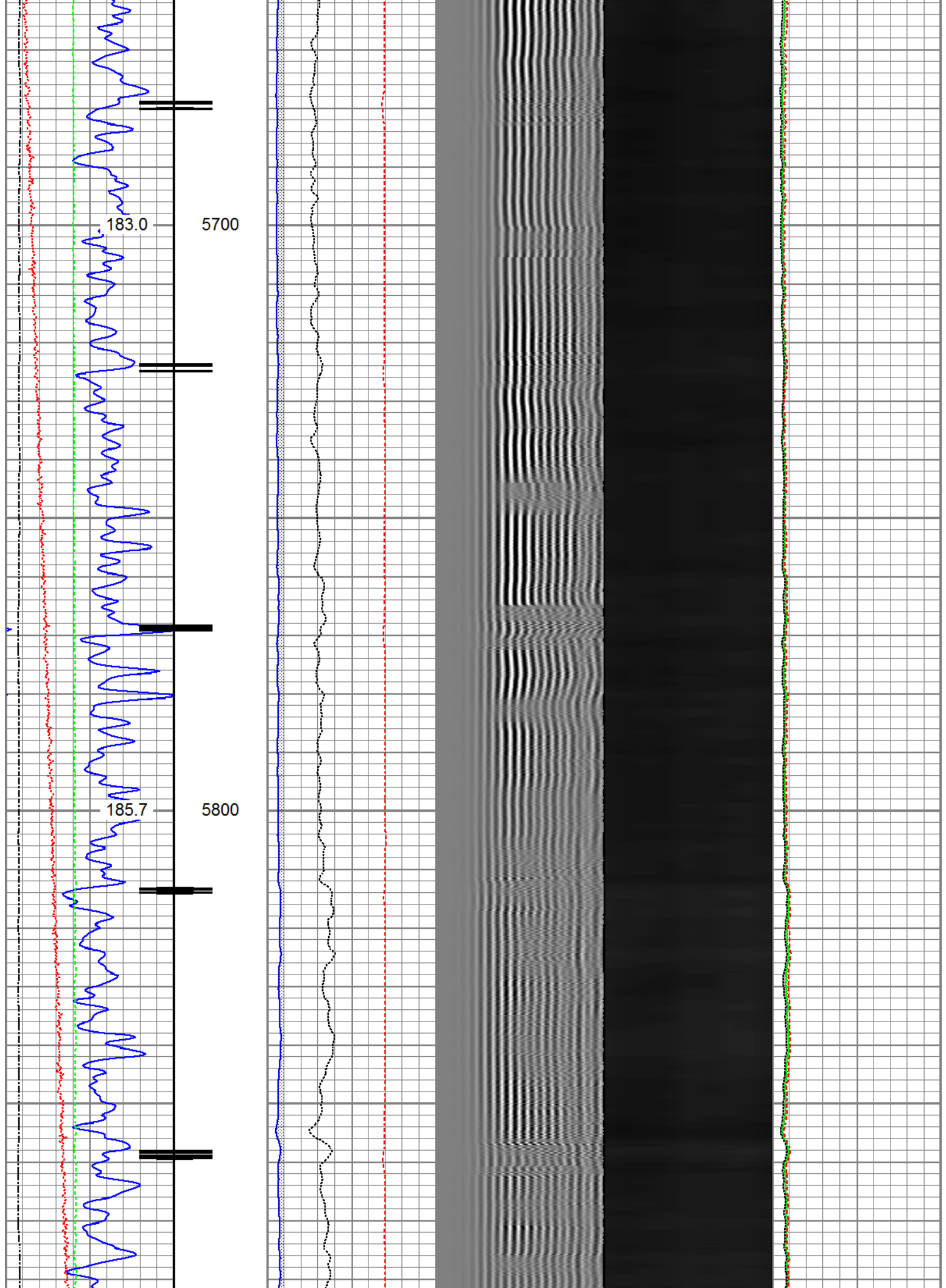


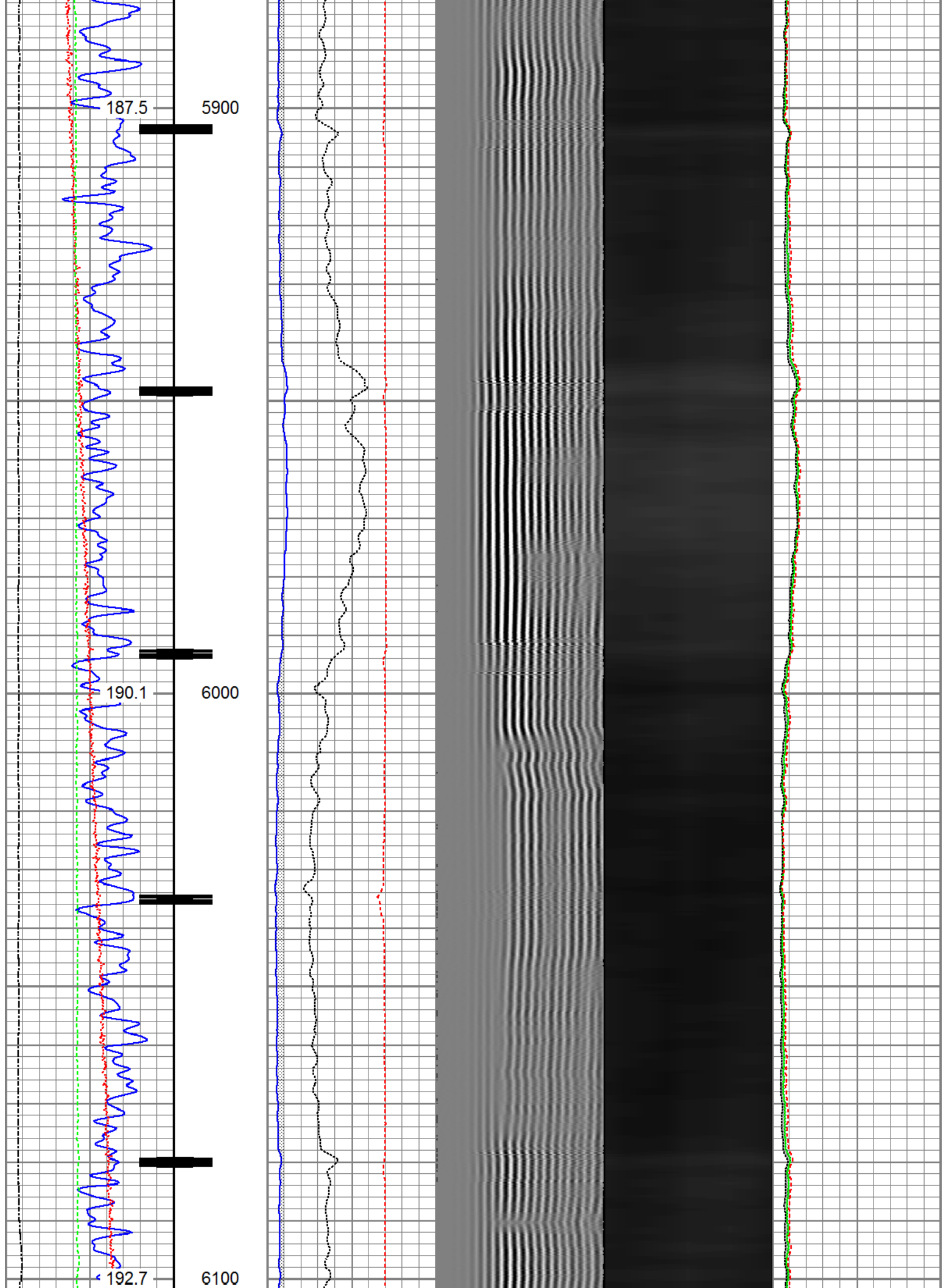


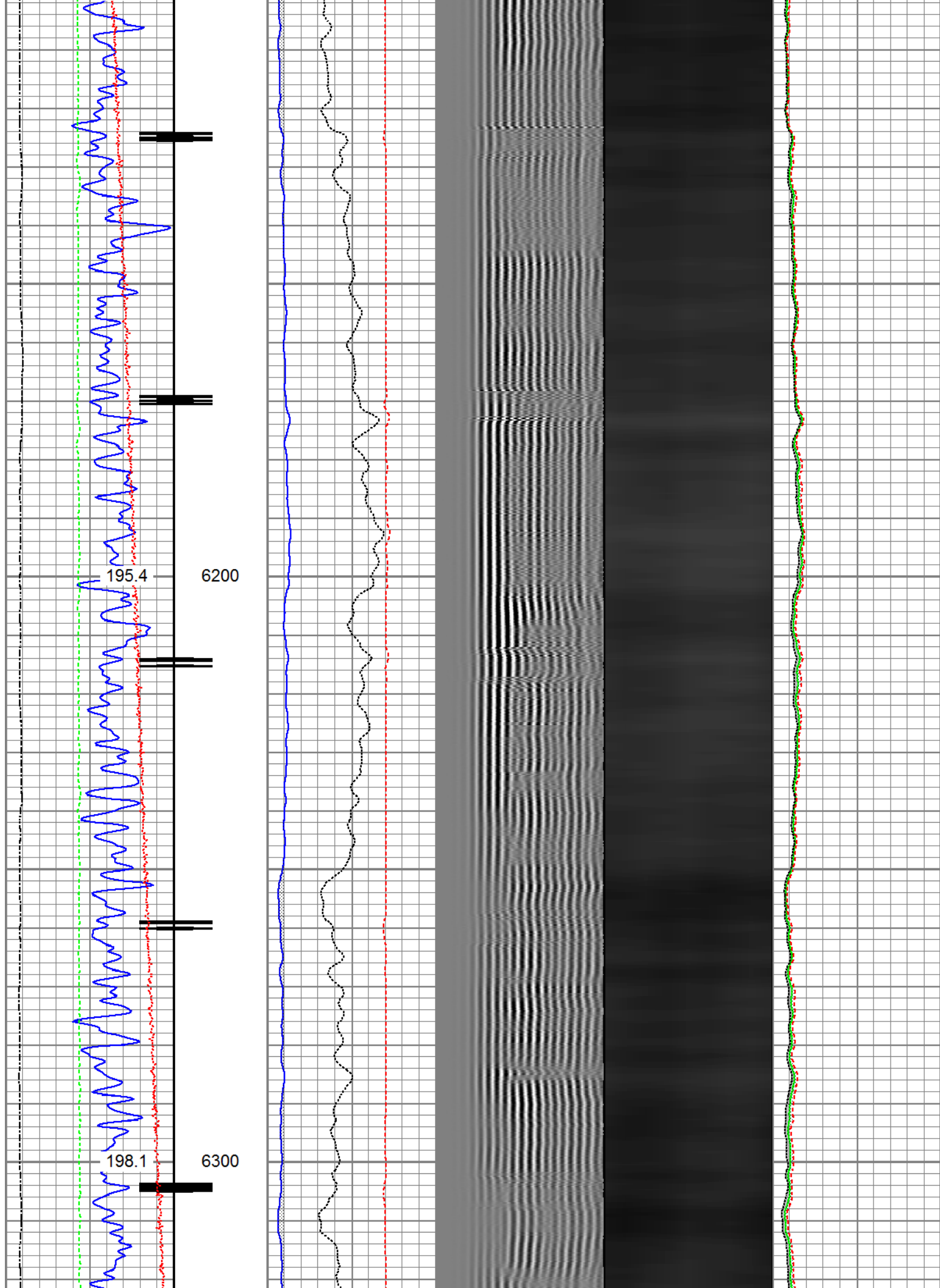


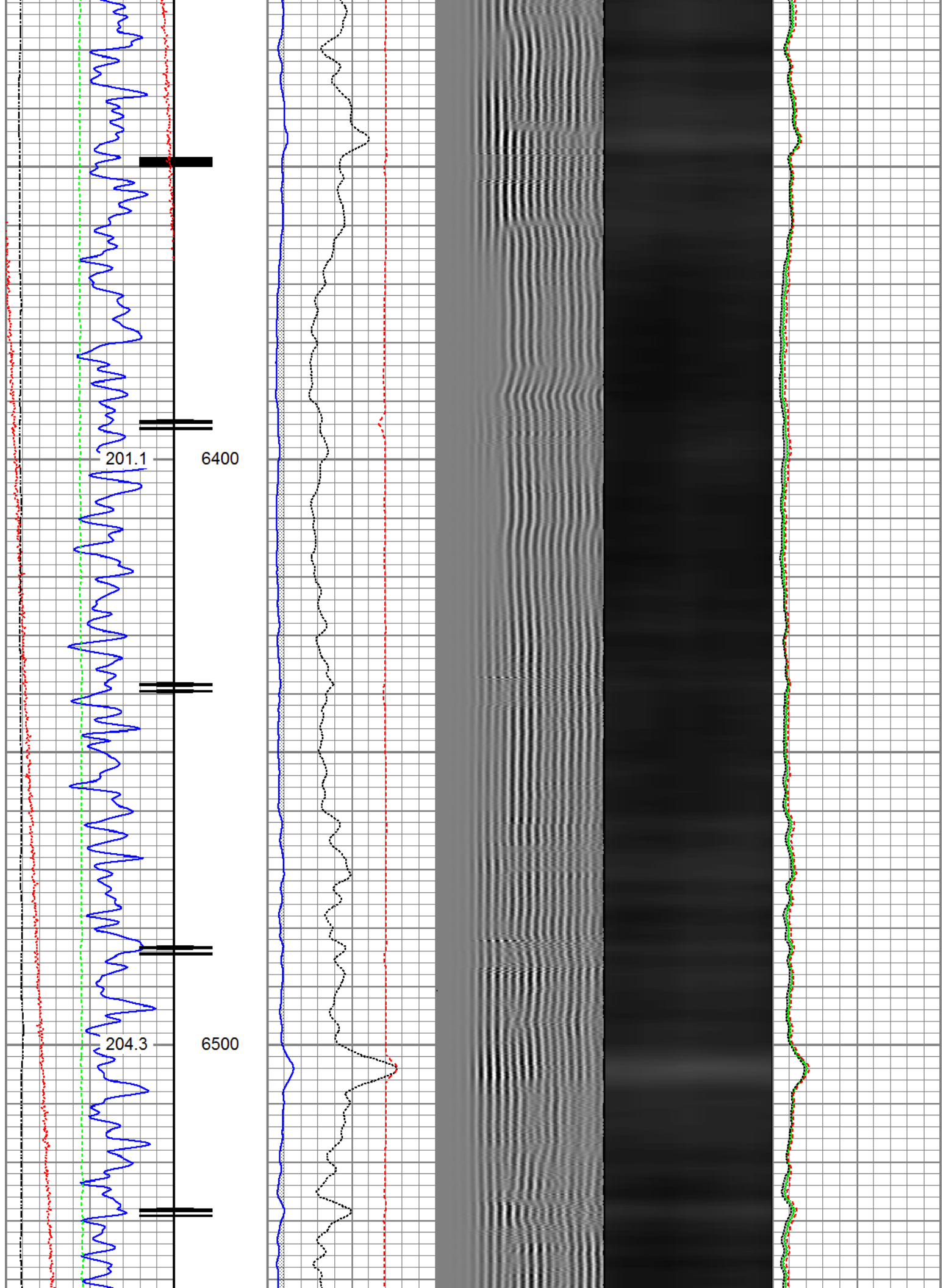


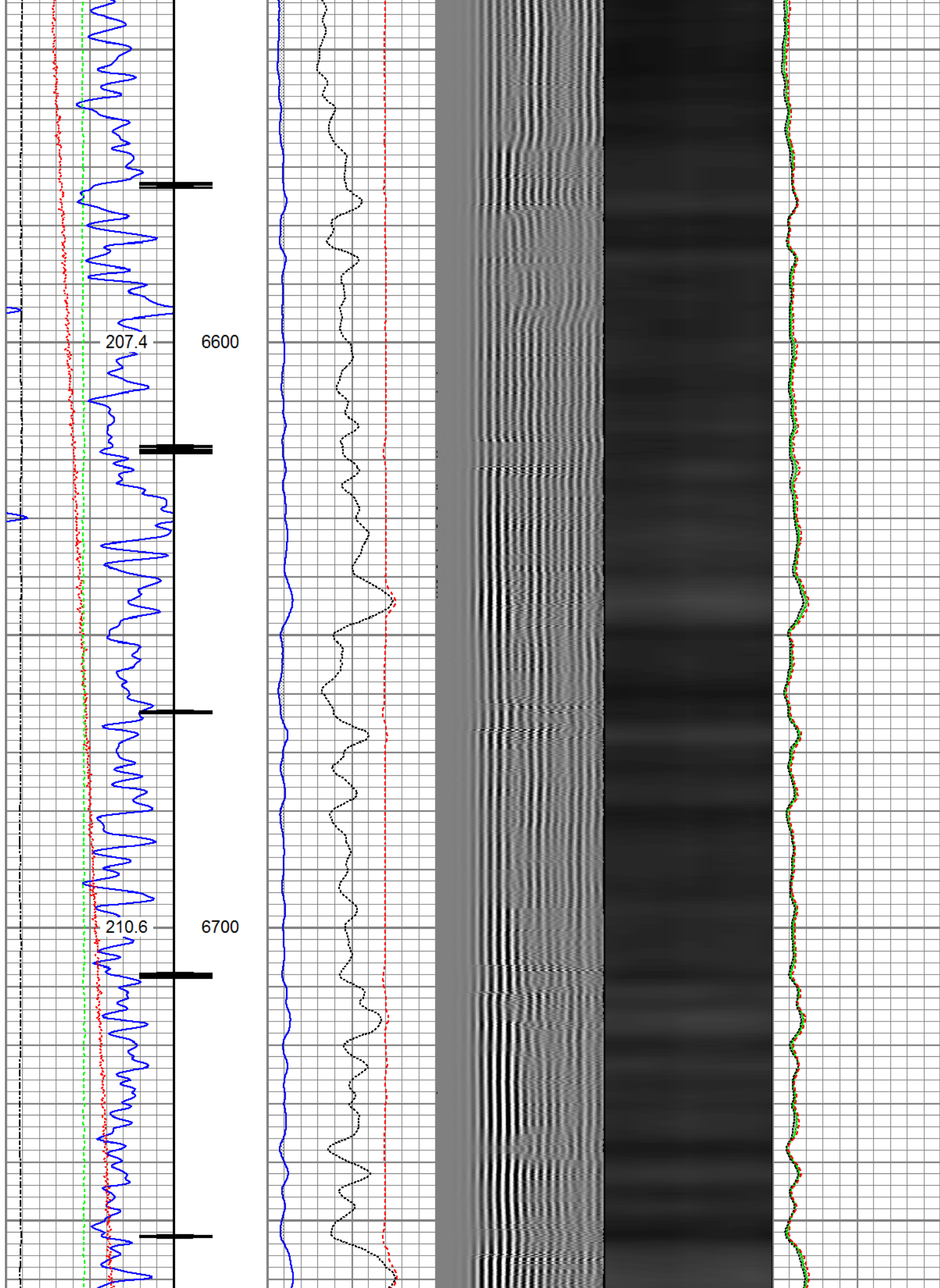


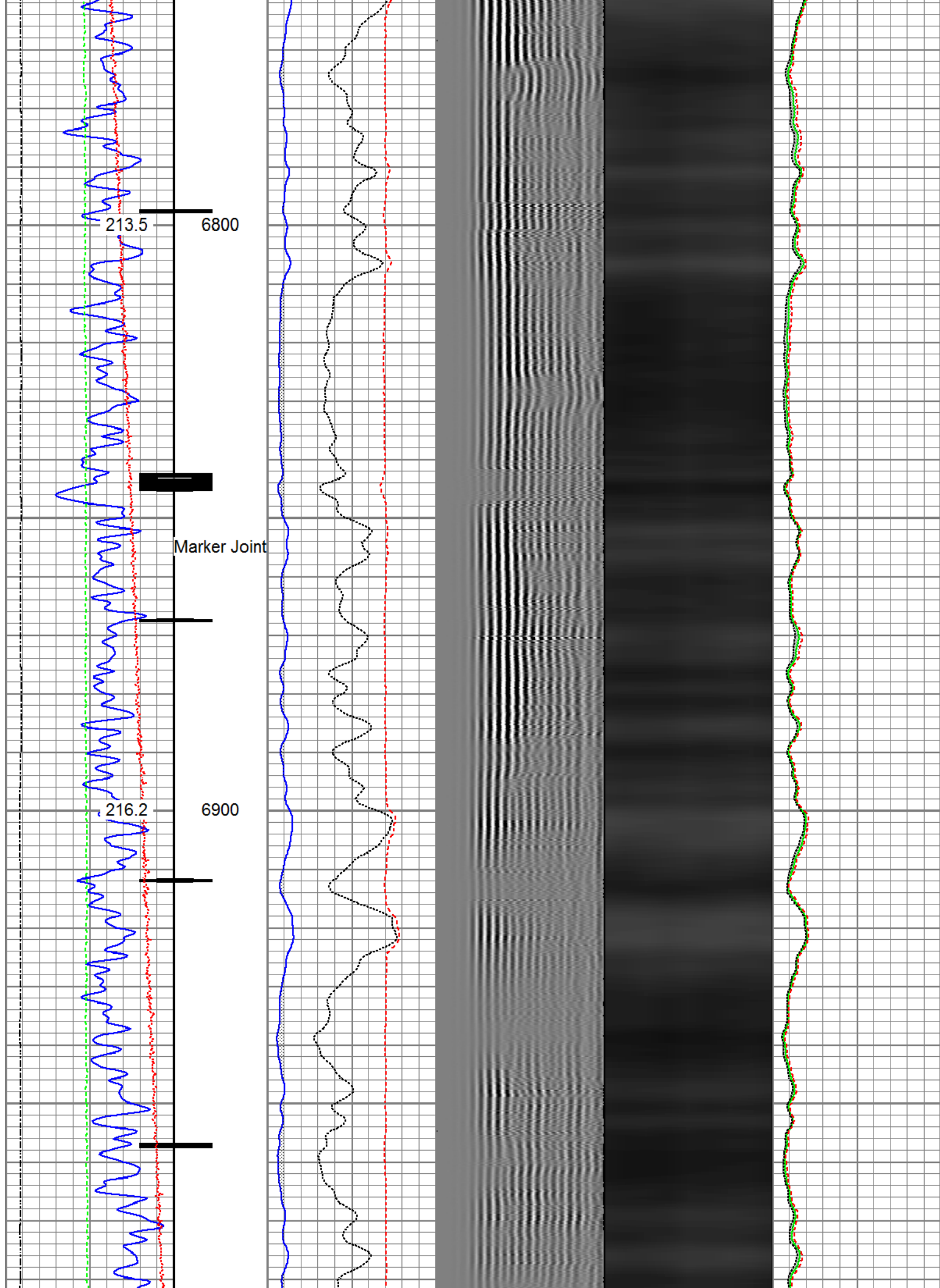


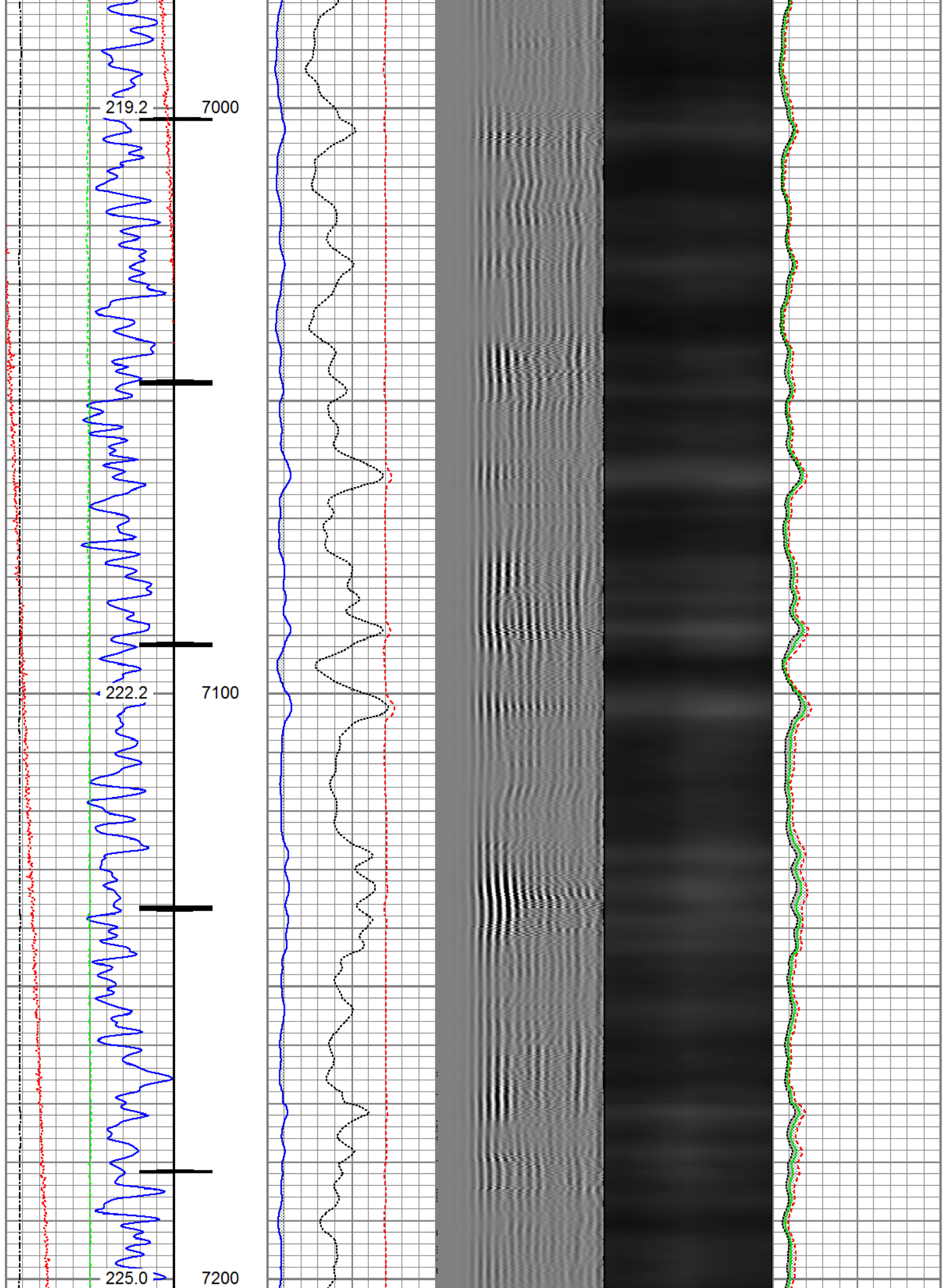


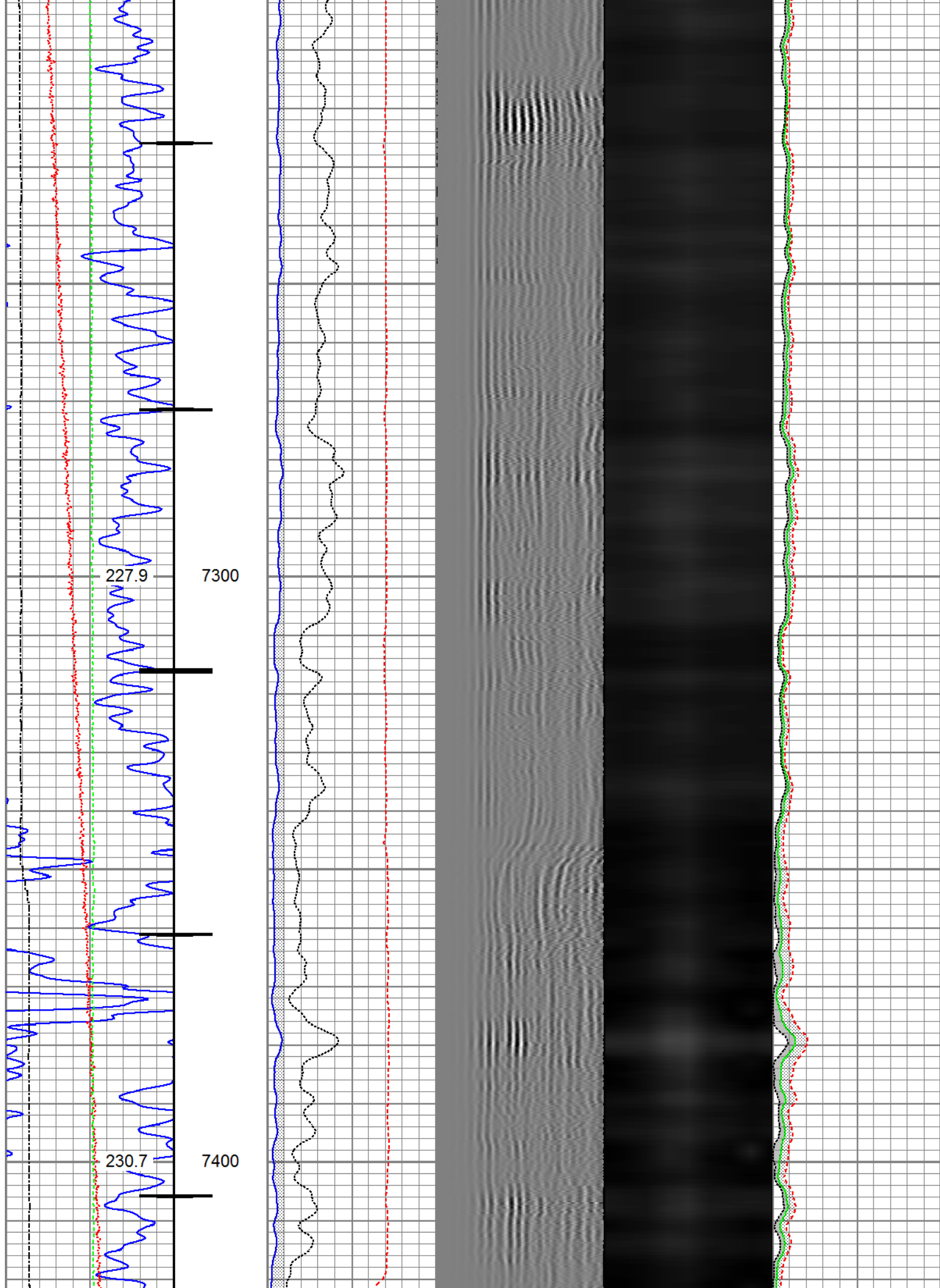


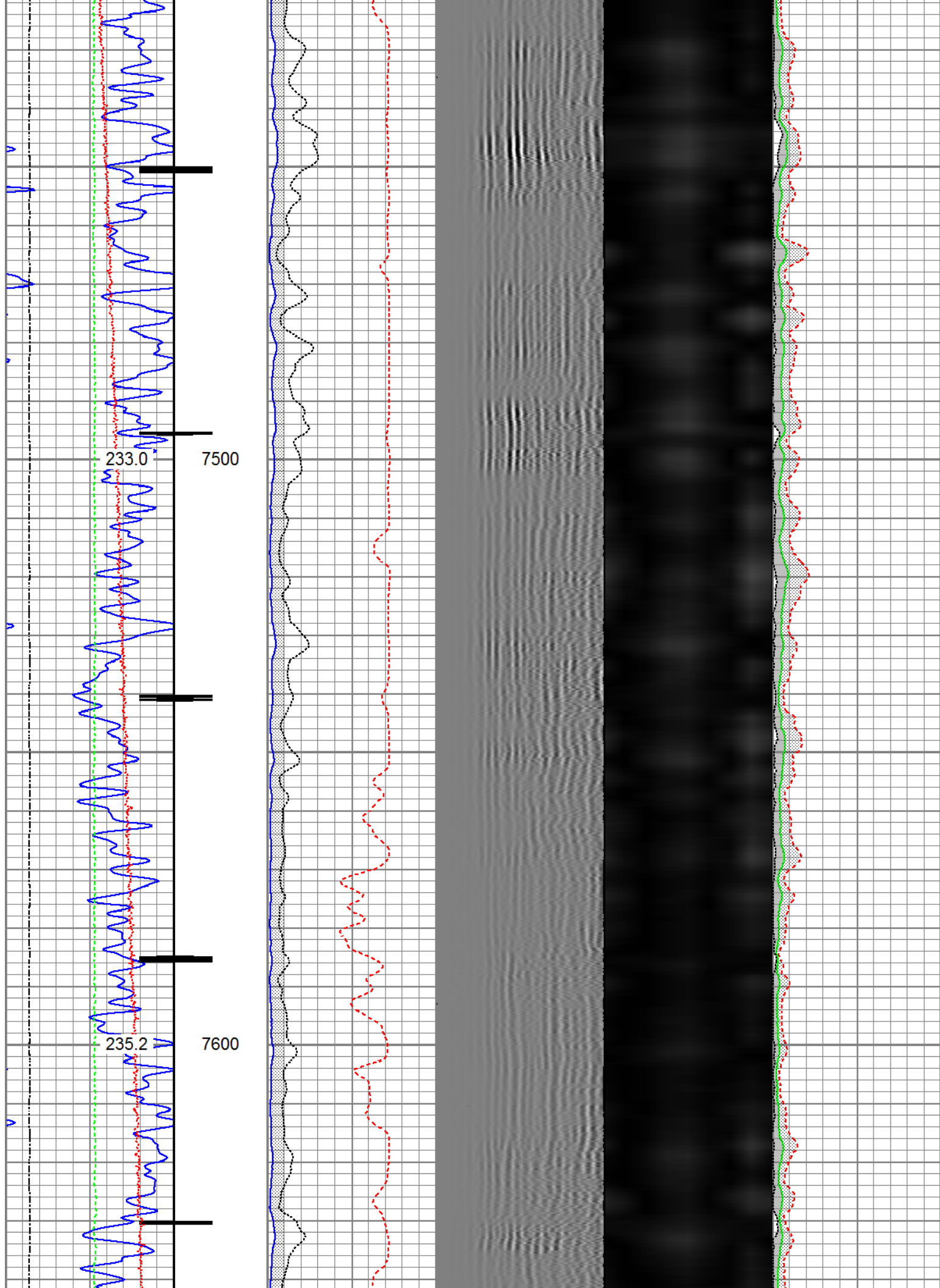


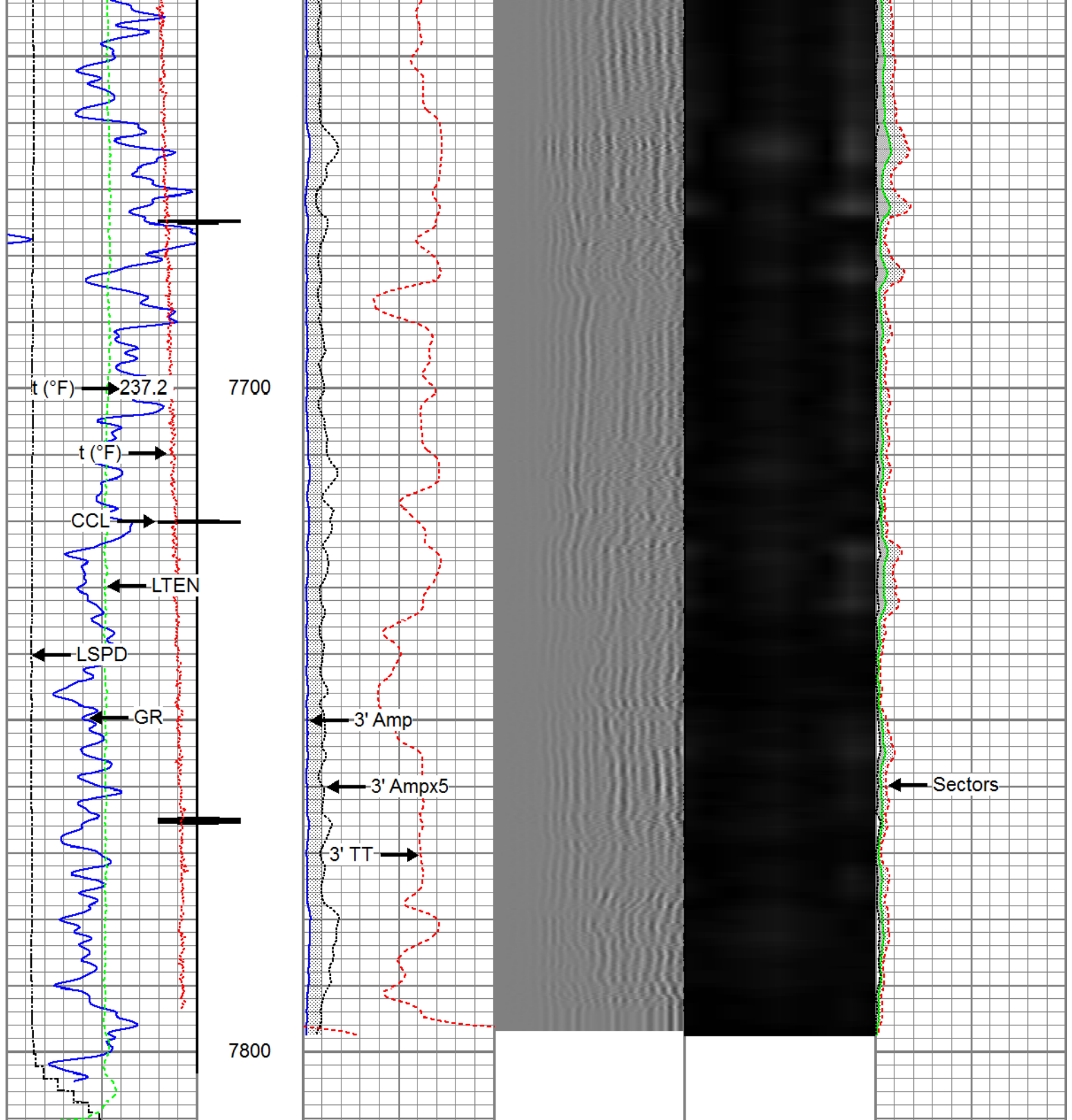












| | | | | |
|---|--|--|-----------------------|---|
| <div>Gamma Ray</div> <div>0 (GAPI) 120</div> <div>Casing Collar Locator</div> | <div>3' Amplitude</div> <div>0 (mV) 100</div> <div>3' Amplitude x 5</div> <div>0 (mV) 20</div> <div>3' Travel Time</div> <div>650 (usec) 150</div> | <div>5' Variable Density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

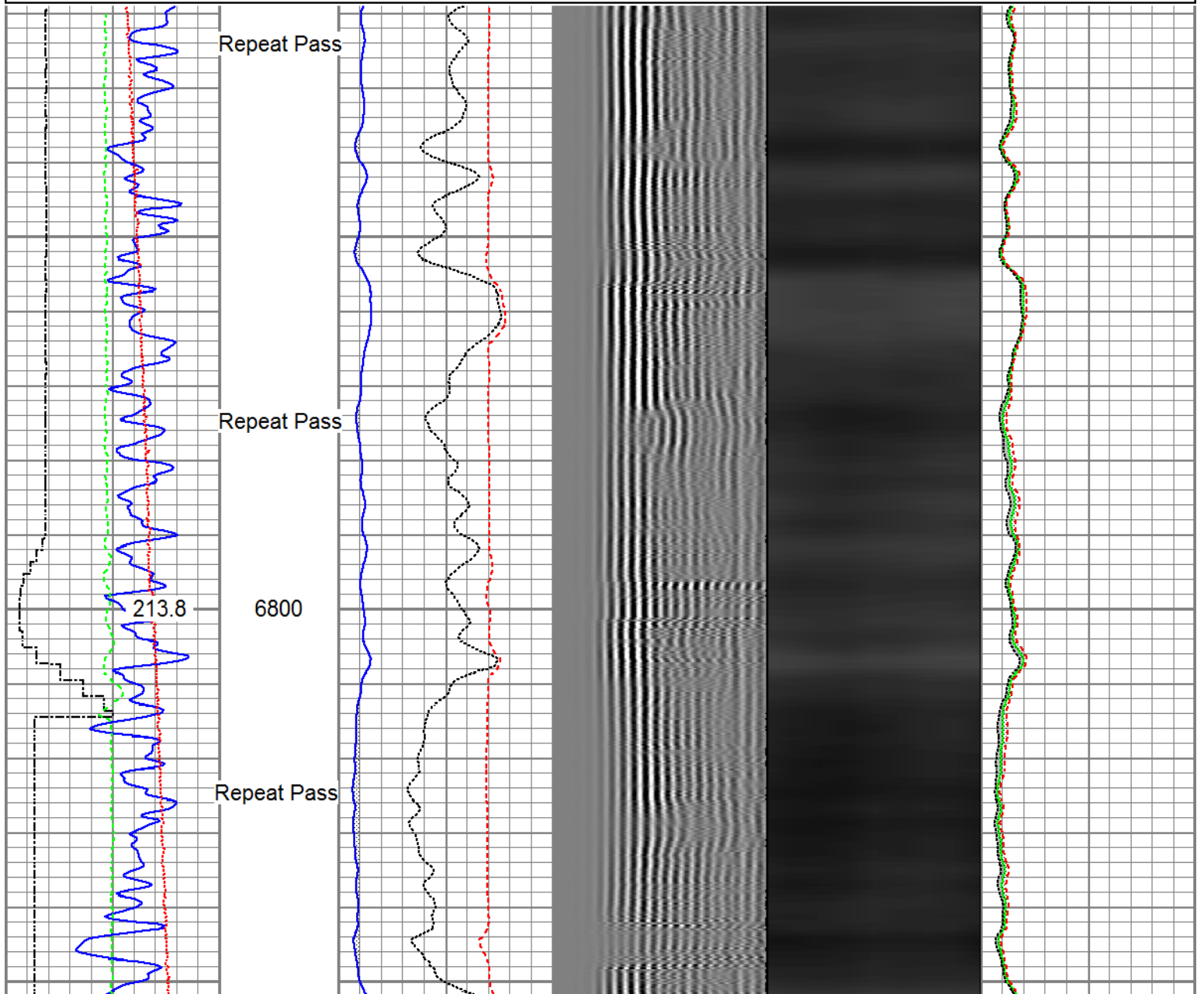


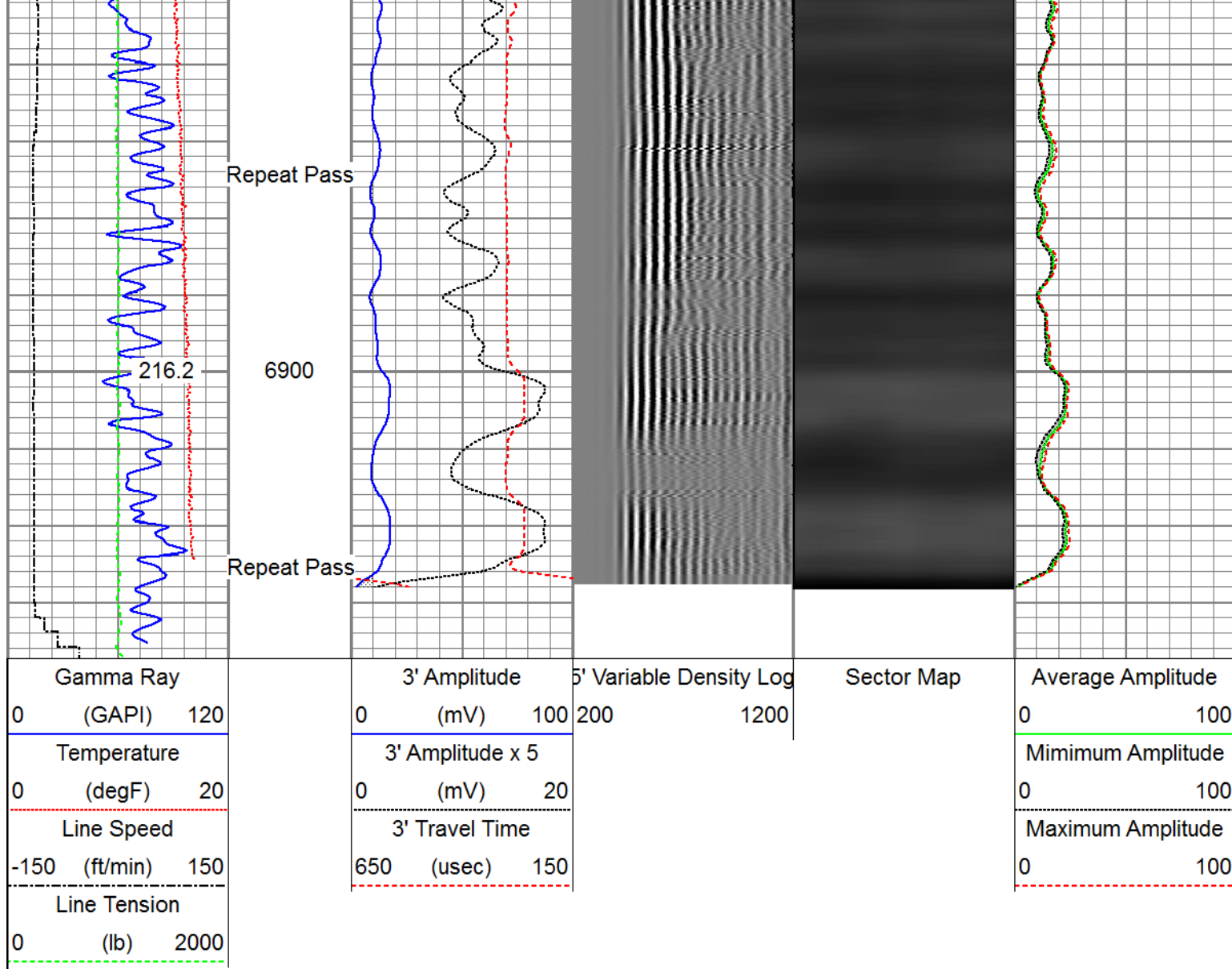
Repeat Pass



Recorded With 2800 PSI of Surface Induced Pressure

| | |
|---------------------|--|
| Database File | anadarko_puma fed 13c-35hz_15-may-2017_rbl\processed_0512342566_anadarko_puma fed 13c- |
| Dataset Pathname | pass2 |
| Presentation Format | ros_radri |
| Dataset Creation | Mon May 15 16:27:06 2017 |
| Charted by | Depth in Feet scaled 1:240 |

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





| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|----------|-------------|---|--|-------------|-----------|-------------|
| HeadVolt | 19.54 |  | Titan_Electric_Cable_Heads-Titan_1-11/16" Electric Cable Head with 1" Fishing Neck | 1.03 | 1.69 | 5.40 |
| | | | Probe_ELine_BowSpring_Centralizer-P_EB Probe 2-3/4" Electric Inline Bowspring Centralizer | 2.8875 | 2.75 | 20.00 |
| | | | Probe_RADII-C-P_RBT_2750 (FW1302-00) Probe 2-3/4" Sector Cement Bond Tool with Temperature Probe | 29.19 | 2.75 | 105.00 |
| Temp | 16.75 |  | | | | |
| WVFS8 | 14.58 | | | | | |
| WVFS7 | 14.58 | | | | | |
| WVFS6 | 14.58 | | | | | |

| Tool Joint # | Tool Joint Description | Length (ft) | Weight (lb) | O.D. (in) |
|---|------------------------|-------------|-------------|-----------|
| WVFS5 | | 14.58 | | |
| WVFS4 | | 14.58 | | |
| WVFS3 | | 14.58 | | |
| WVFS2 | | 14.58 | | |
| WVFS1 | | 14.58 | | |
| WVFCAL | | 14.58 | | |
| WVF3FT | | 14.58 | | |
| WVF5FT | | 13.58 | | |
| HEADVOLT | | 10.33 | | |
| DCCL | | 6.51 | | |
| CCL | | 6.51 | | |
| GR | | 3.77 | | |
| | | | | |
| Probe_ELine_BowSpring_Centralizer-P_EB | | 2.8875 | 2.75 | 20.00 |
| Probe 2-3/4" Electric Inline Bowspring Centralizer | | | | |
| Probe_GR_CCL-P_CGR_2750_S (FW12124.57) | | 2.75 | 55.00 | |
| Probe 2-3/4" Digital CCL / Gamma Ray Combined | | | | |
| Probe_ELine_BowSpring_Centralizer-P_EB | | 2.8875 | 2.75 | 20.00 |
| Probe 2-3/4" Electric Inline Bowspring Centralizer | | | | |
| Dataset: PROCESSED_0512342566_Anadarko_Puma Fed 13C-35HZ_05-15-17_RBL.db: field/well/run1/pass4 Total length: 23.43 ft Total weight: 225.40 lb O.D.: 2.75 in | | | | |

| Segmented Cement Bond Log Calibration Report | | |
|--|------------|----|
| Serial Number: | FW1302-002 | |
| Tool Model: | P_RBT_2750 | |
| Calibration Casing Diameter: | 5.500 | in |
| Calibration Depth: | 15.100 | ft |

Master Calibration, performed Mon May 15 08:07:38 2017:

| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|---------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | -0.006 | 0.728 | 0.800 | 71.921 | 96.867 | 1.399 |
| CAL | 0.002 | 0.821 | | | | |
| 5' | -0.002 | 0.575 | 0.800 | 71.921 | 123.181 | 1.074 |
| SUM | | | | | | |
| S1 | -0.006 | 0.735 | 0.000 | 100.000 | 134.913 | 0.860 |
| S2 | 0.000 | 0.738 | 0.000 | 100.000 | 135.583 | -0.065 |
| S3 | 0.002 | 0.730 | 0.000 | 100.000 | 137.309 | -0.270 |
| S4 | 0.000 | 0.710 | 0.000 | 100.000 | 140.934 | -0.050 |
| S5 | -0.004 | 0.713 | 0.000 | 100.000 | 139.523 | 0.533 |
| S6 | -0.003 | 0.720 | 0.000 | 100.000 | 138.178 | 0.480 |
| S7 | -0.008 | 0.728 | 0.000 | 100.000 | 135.978 | 1.050 |
| S8 | -0.009 | 0.741 | 0.000 | 100.000 | 133.221 | 1.223 |

Internal Reference Calibration, performed Wed Aug 03 10:40:08 2016:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.002 | 0.821 | 1.000 | 0.000 |

Air Zero Calibration, performed Sat May 13 09:53:02 2017:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|--|----------------|--|---------|--|
| | Zero | | Zero | | Offset | |
| 3' | 0.001 | | 0.000 | | 0.000 | |
| 5' | 0.001 | | 0.000 | | -0.000 | |
| SUM | | | | | | |
| S1 | 0.001 | | 0.000 | | -0.001 | |
| S2 | 0.000 | | 0.000 | | 0.000 | |
| S3 | 0.001 | | 0.000 | | 0.001 | |
| S4 | 0.002 | | 0.000 | | -0.000 | |
| S5 | 0.001 | | 0.000 | | -0.000 | |
| S6 | 0.001 | | 0.000 | | -0.000 | |
| S7 | 0.001 | | 0.000 | | 0.000 | |
| S8 | 0.001 | | 0.000 | | 0.000 | |



Company Kerr-McGee Oil & Gas Onshore, L.P.
 Well Puma Fed 13C-35HZ
 Field Wattenberg
 County Weld
 State Colorado