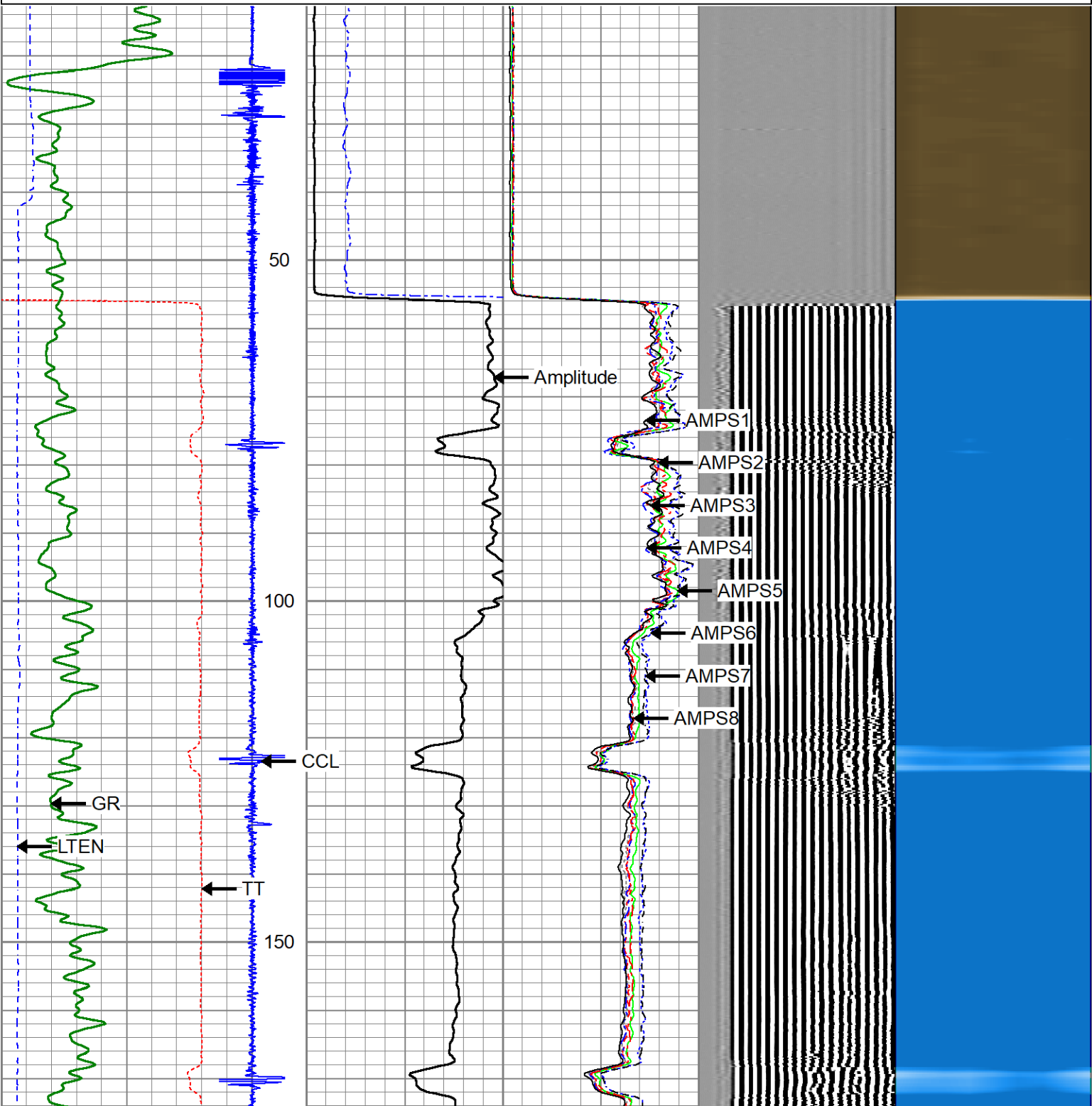
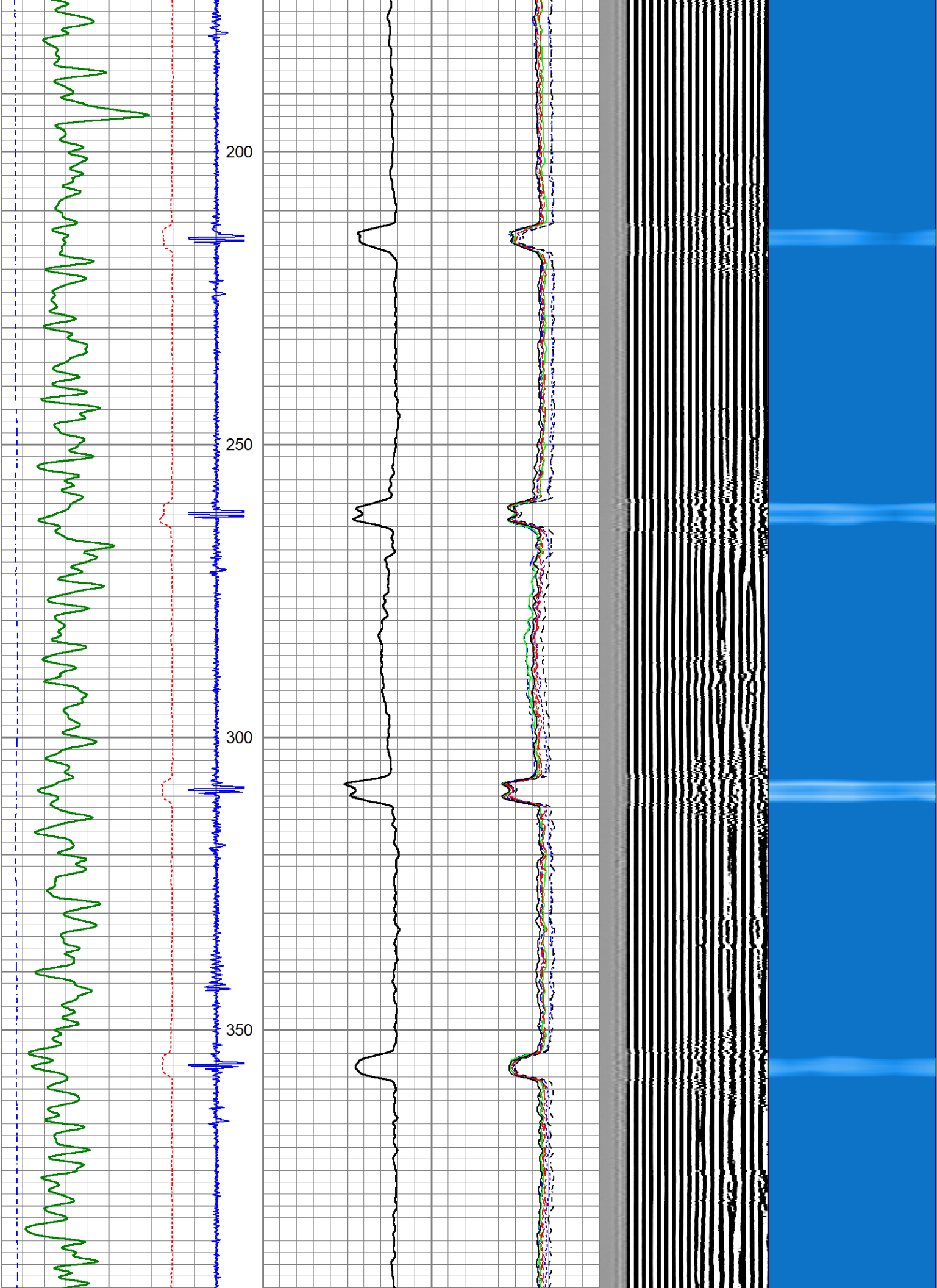
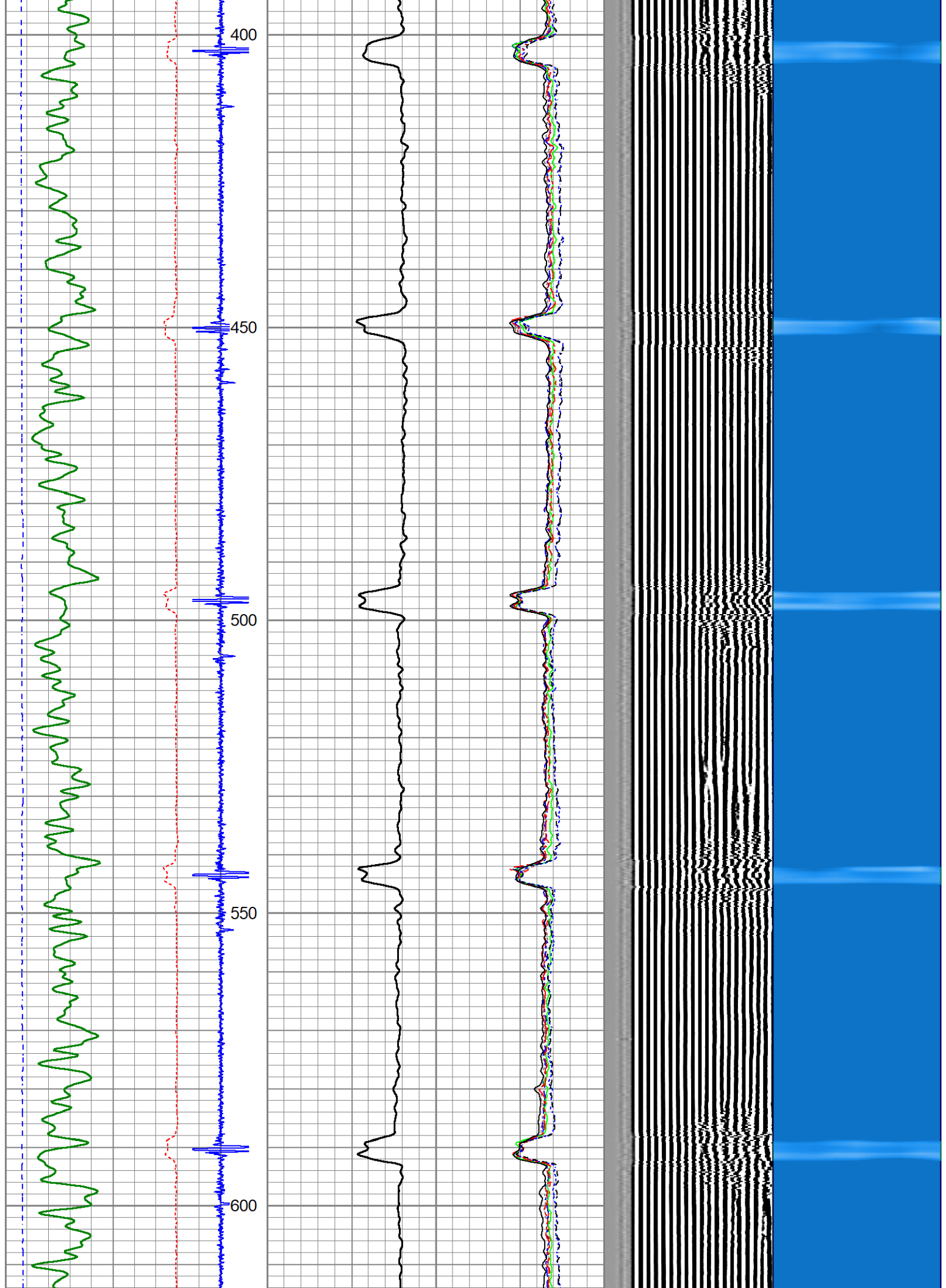
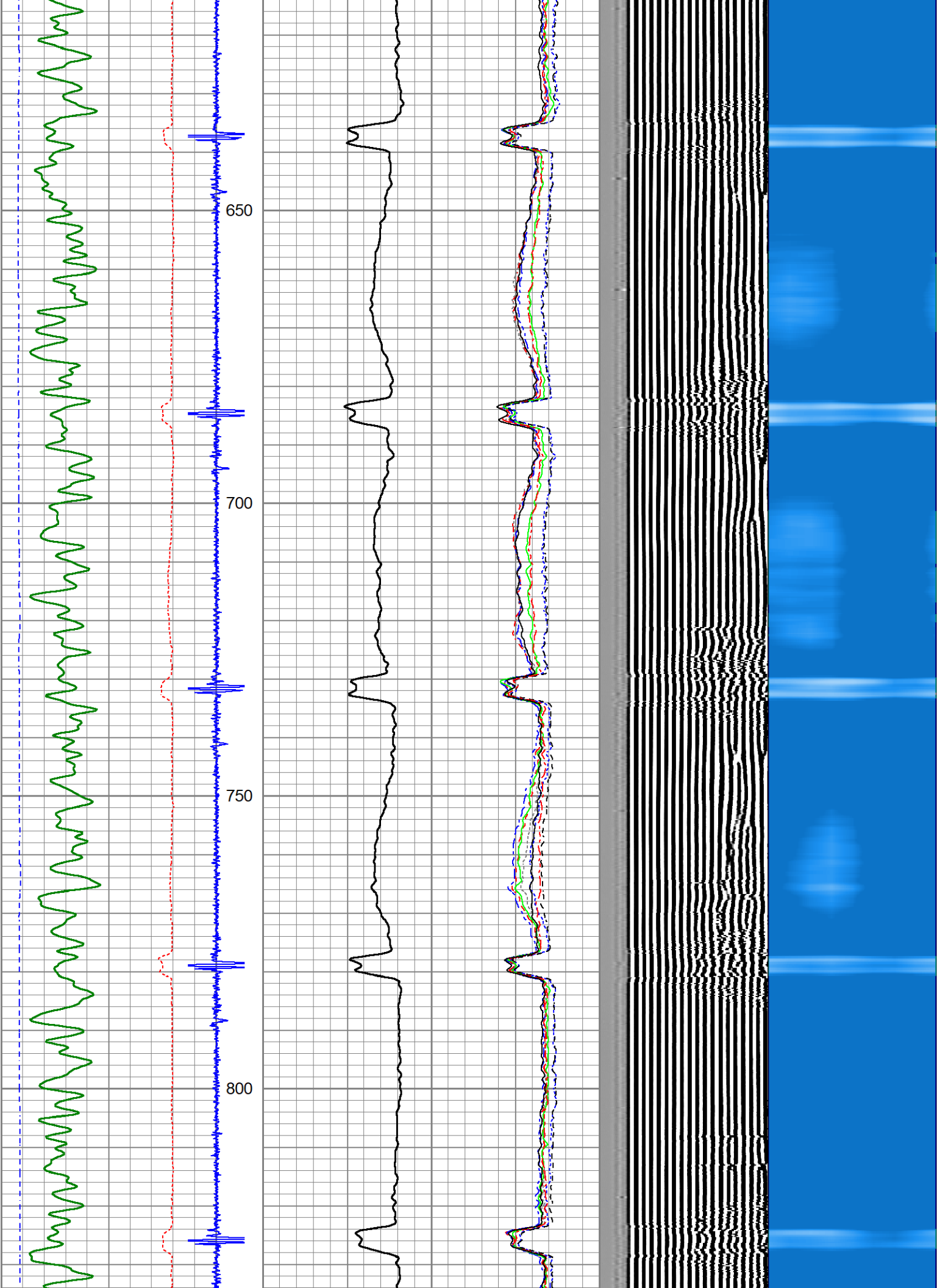


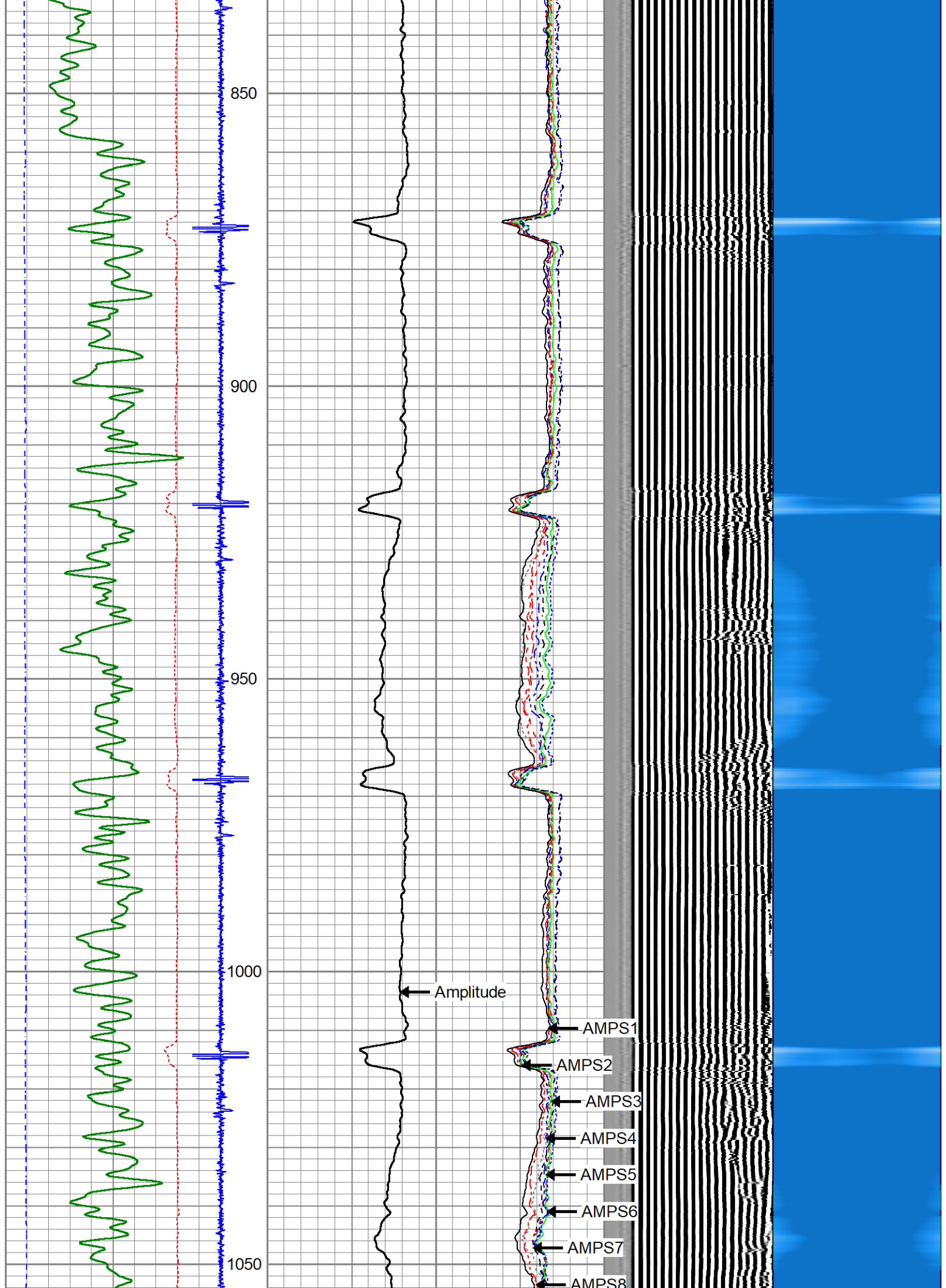
| | | | | | | | | | | | | |
|-----|-----------|------|---|---------------------|-----|----|-------|-----|-----|------------|------|------------|
| 327 | TT (usec) | 227 | 0 | Amplitude (mV) | 100 | -5 | AMPS2 | 150 | 200 | VDL (usec) | 1200 | Cement Map |
| 0 | GR (GAPI) | 150 | | Amplified Amplitude | | -5 | AMPS3 | 150 | | | | |
| 0 | LTEN (lb) | 4000 | 0 | (mV) | 20 | -5 | AMPS4 | 150 | | | | |
| | | | | | | -5 | AMPS5 | 150 | | | | |
| | | | | | | -5 | AMPS6 | 150 | | | | |
| | | | | | | -5 | AMPS7 | 150 | | | | |
| | | | | | | -5 | AMPS8 | 150 | | | | |
| | | | | | | -5 | AMPS1 | 150 | | | | |

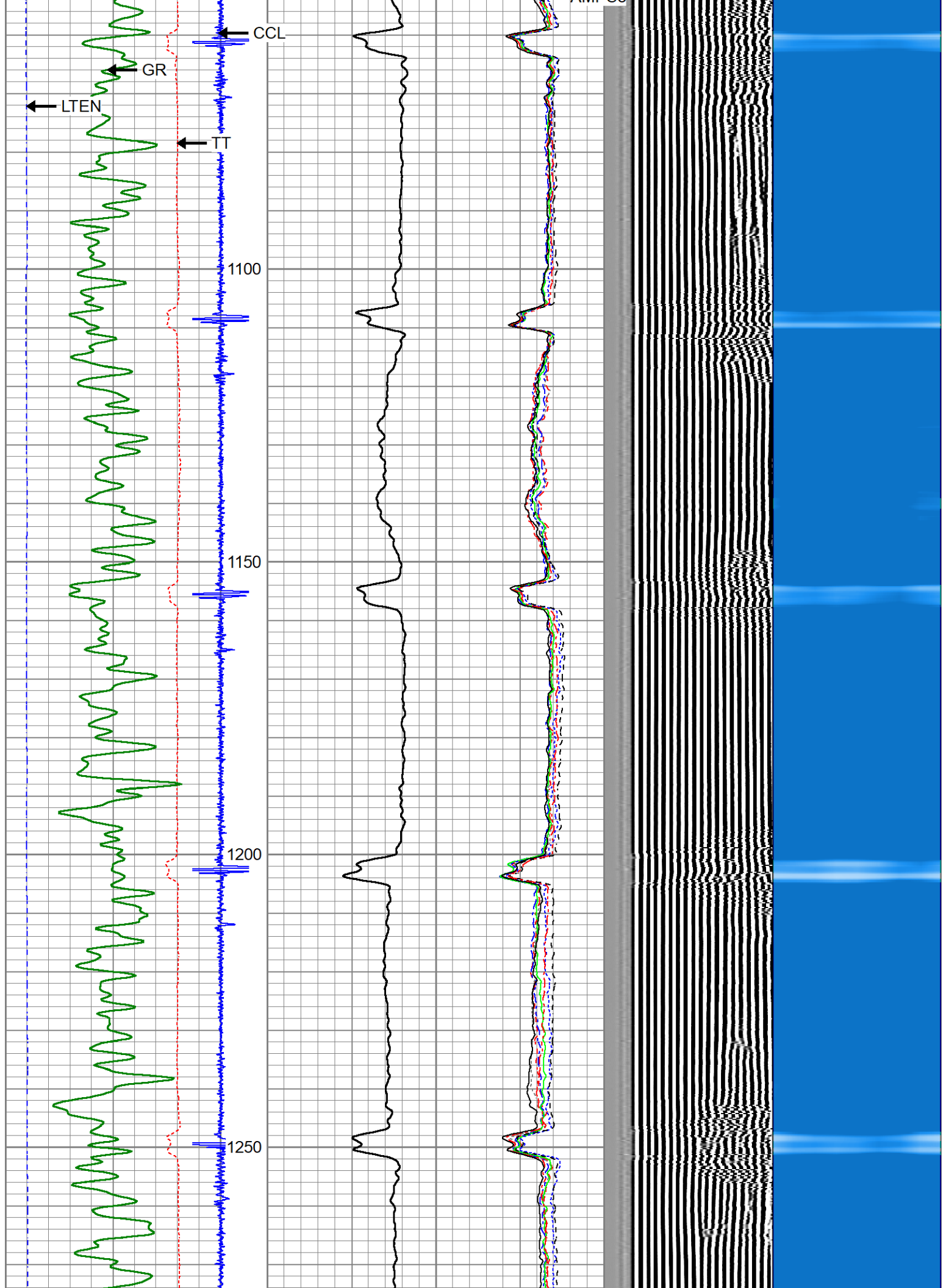


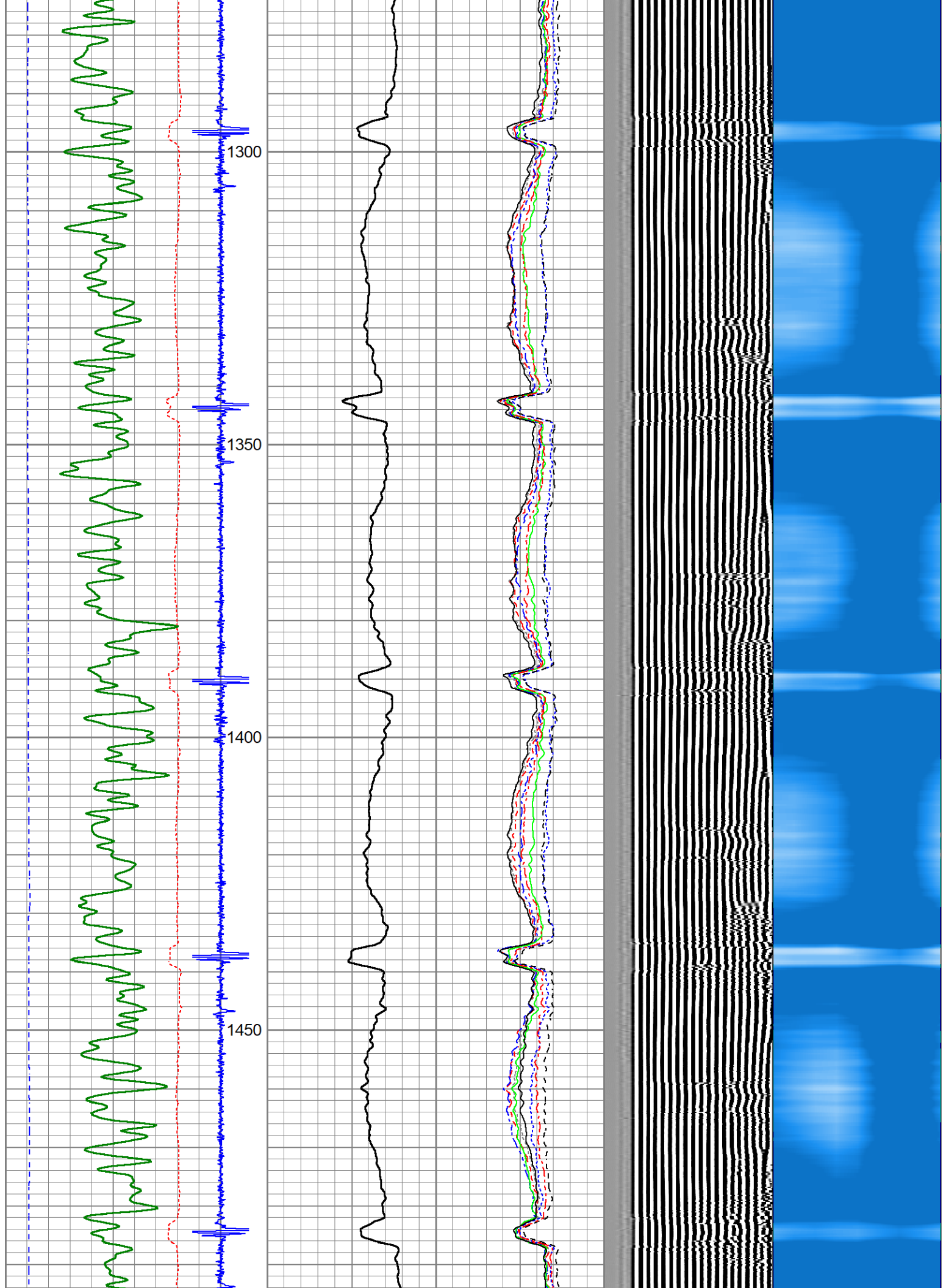


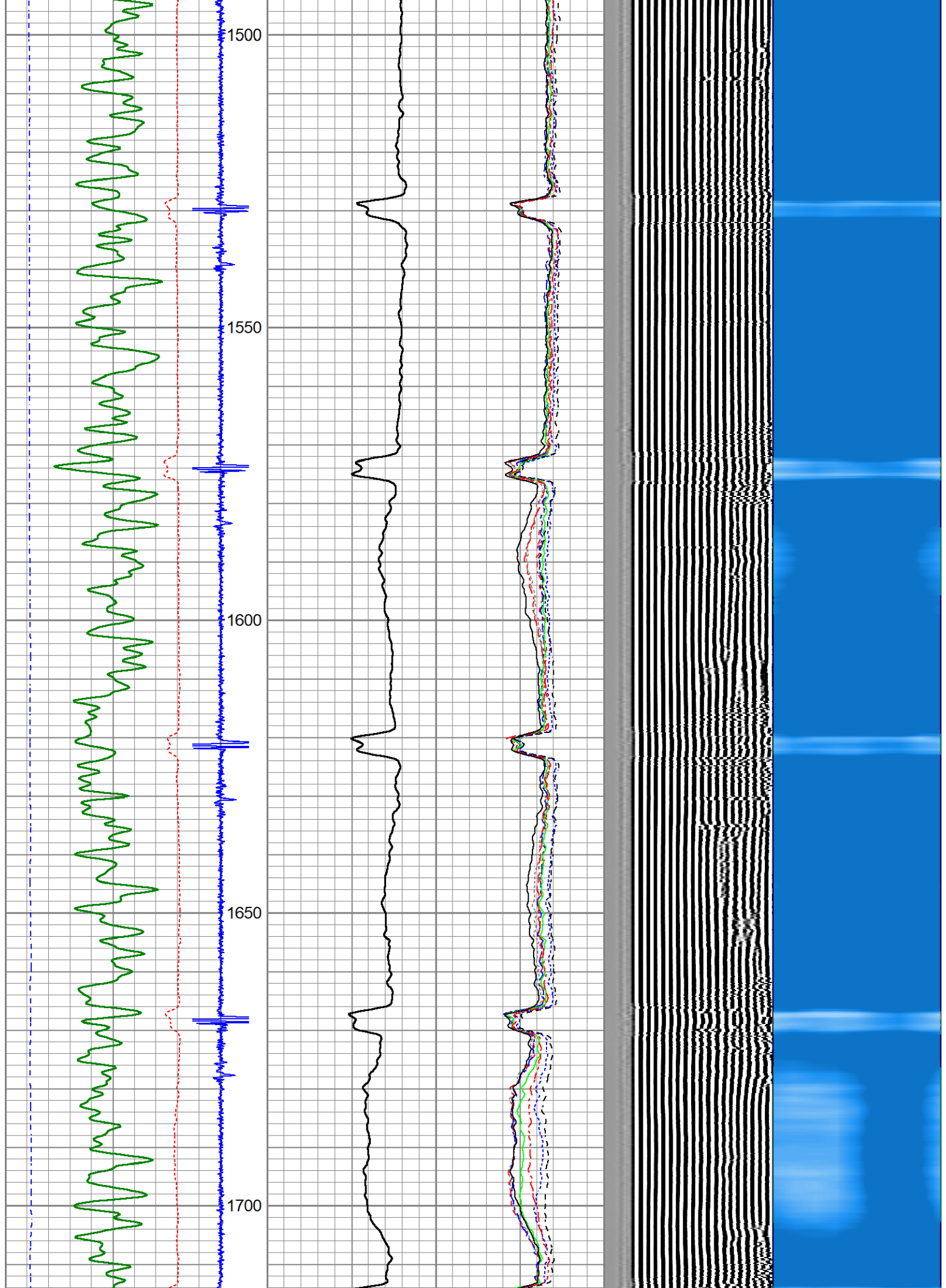


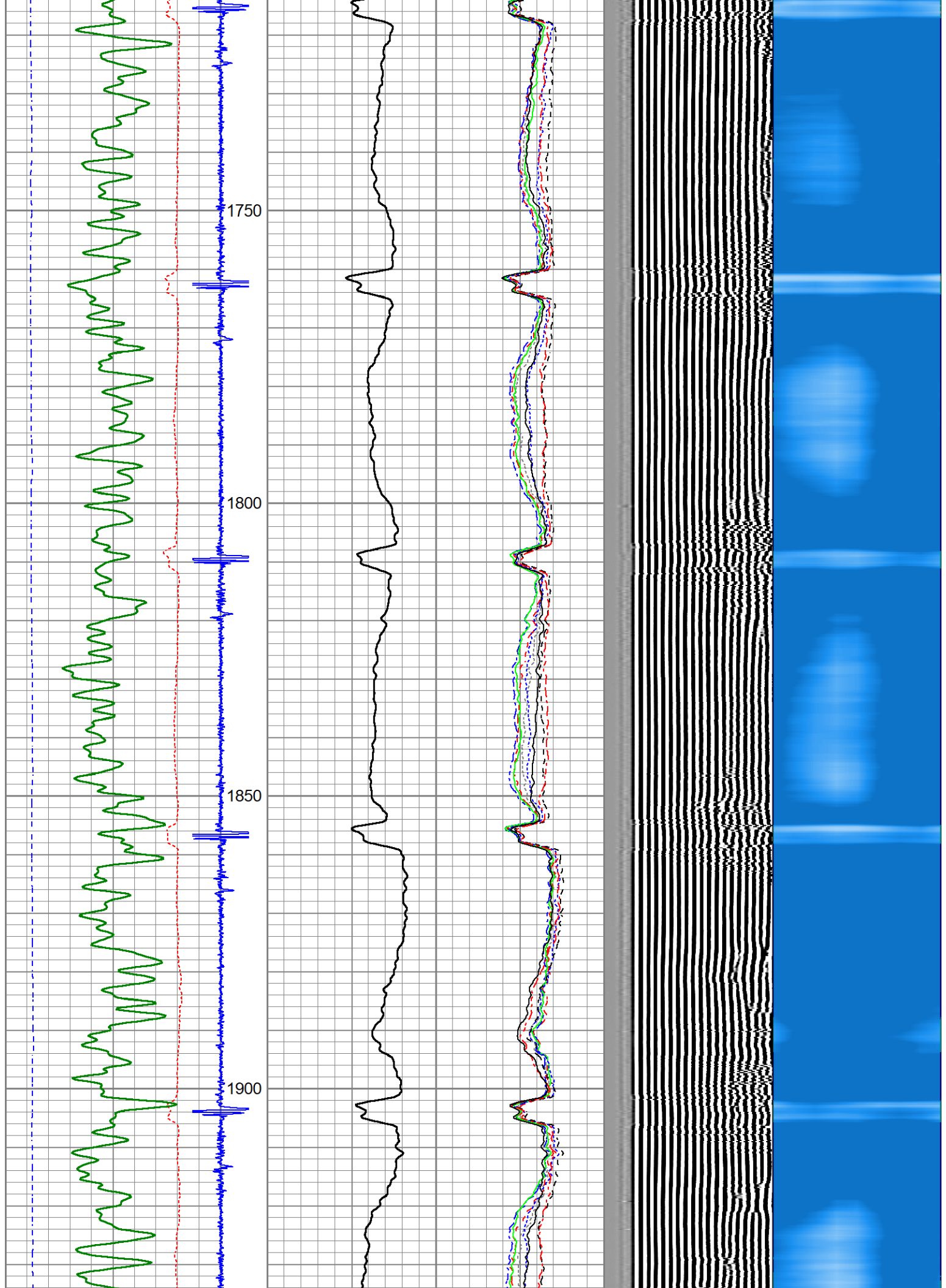


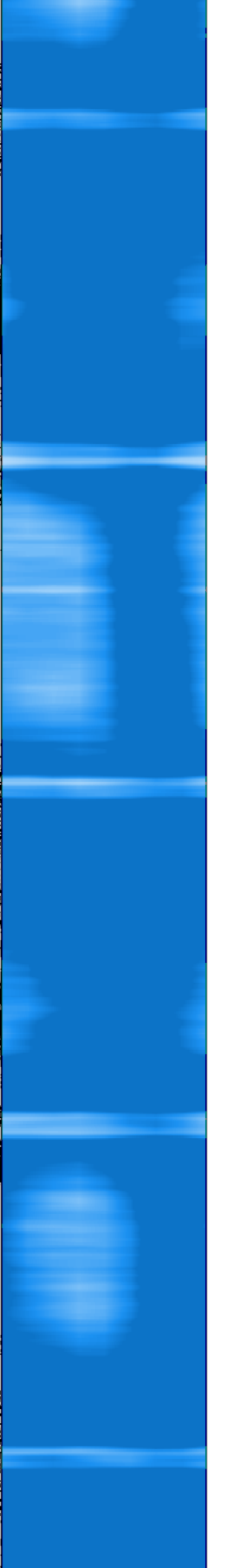
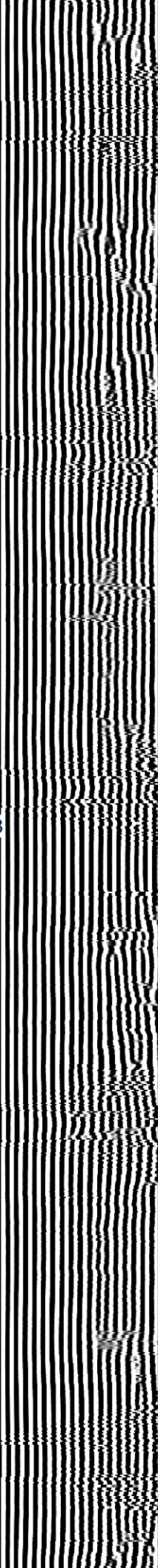
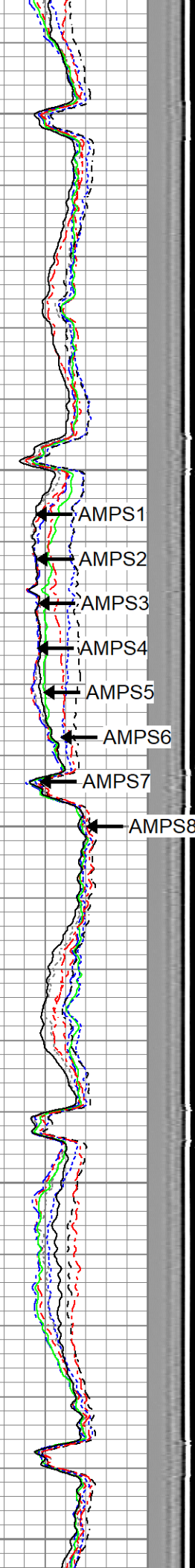
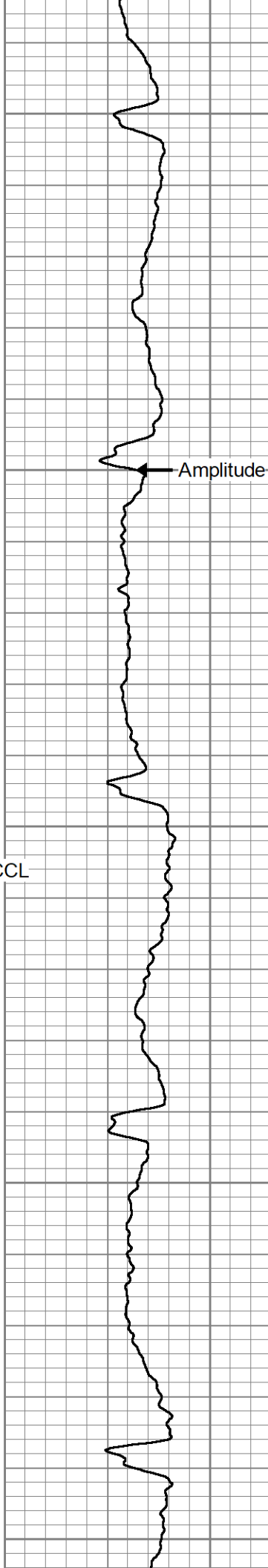
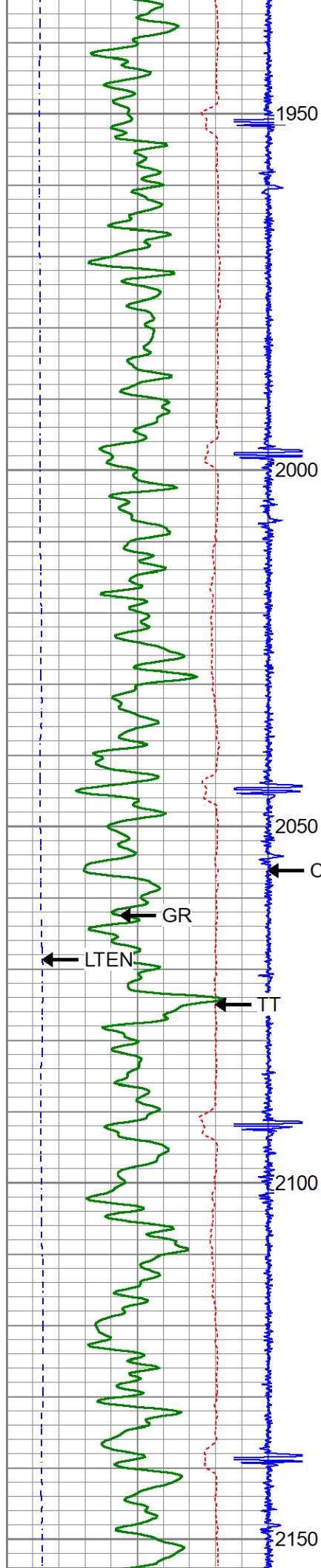


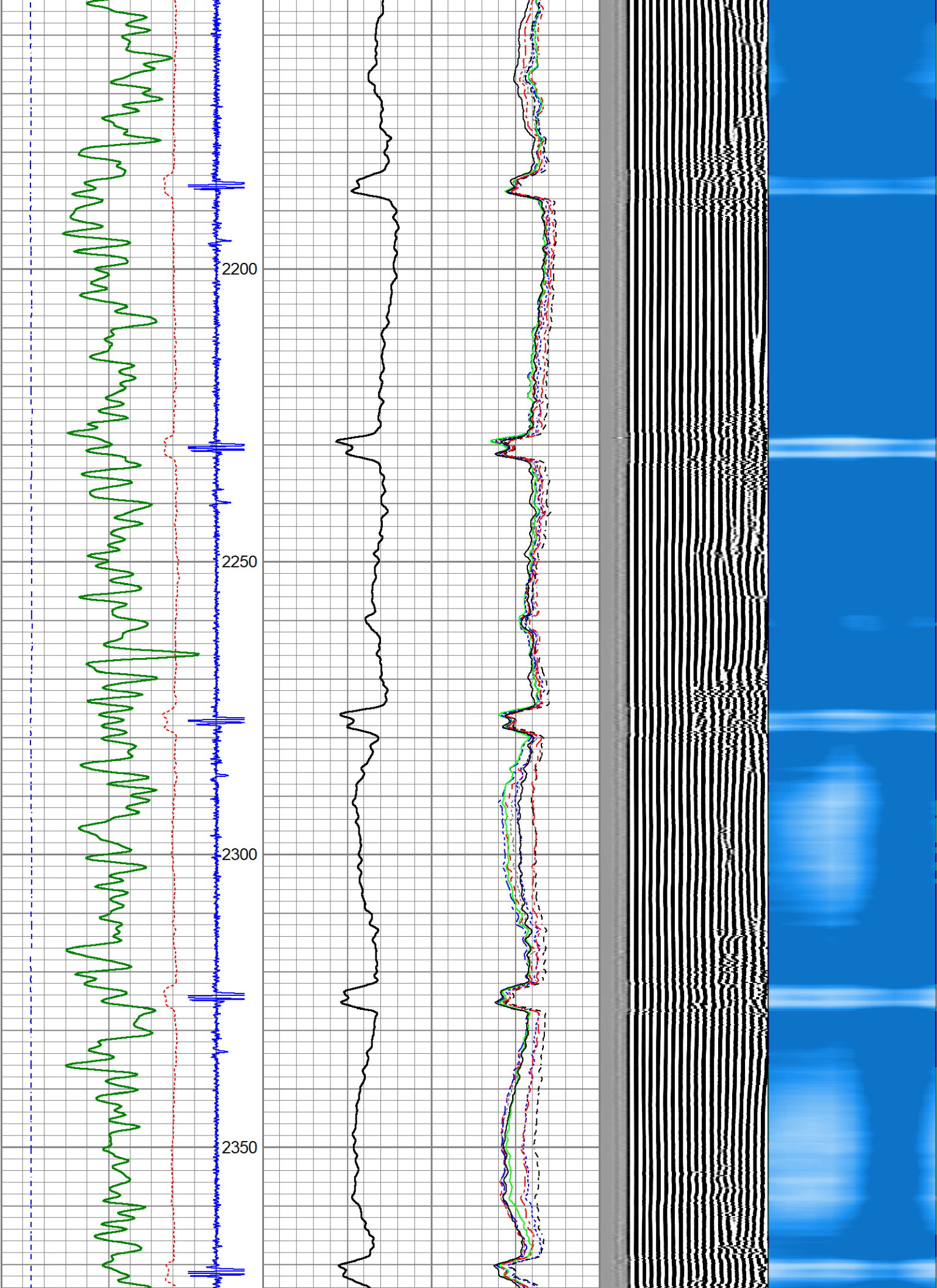


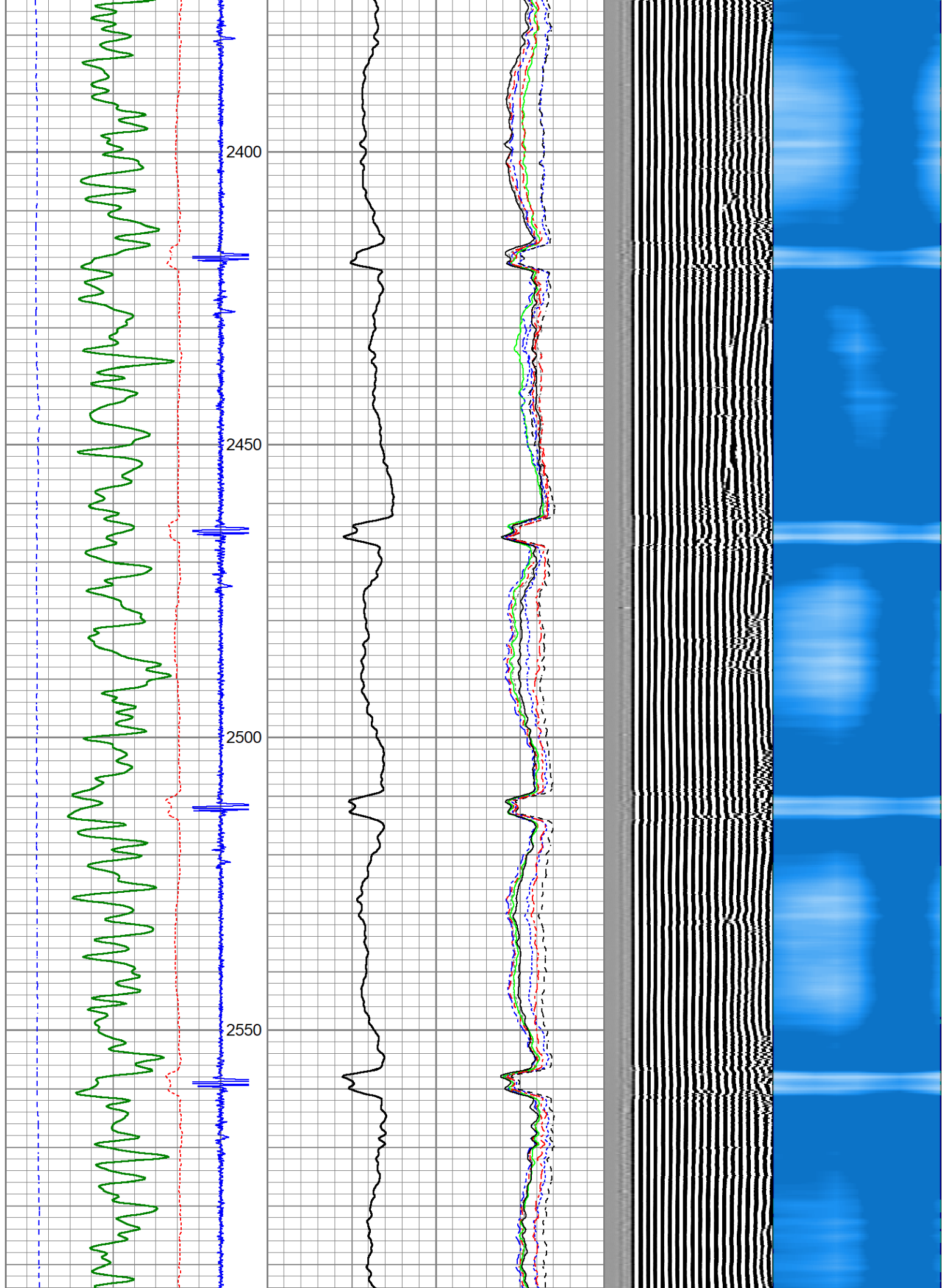


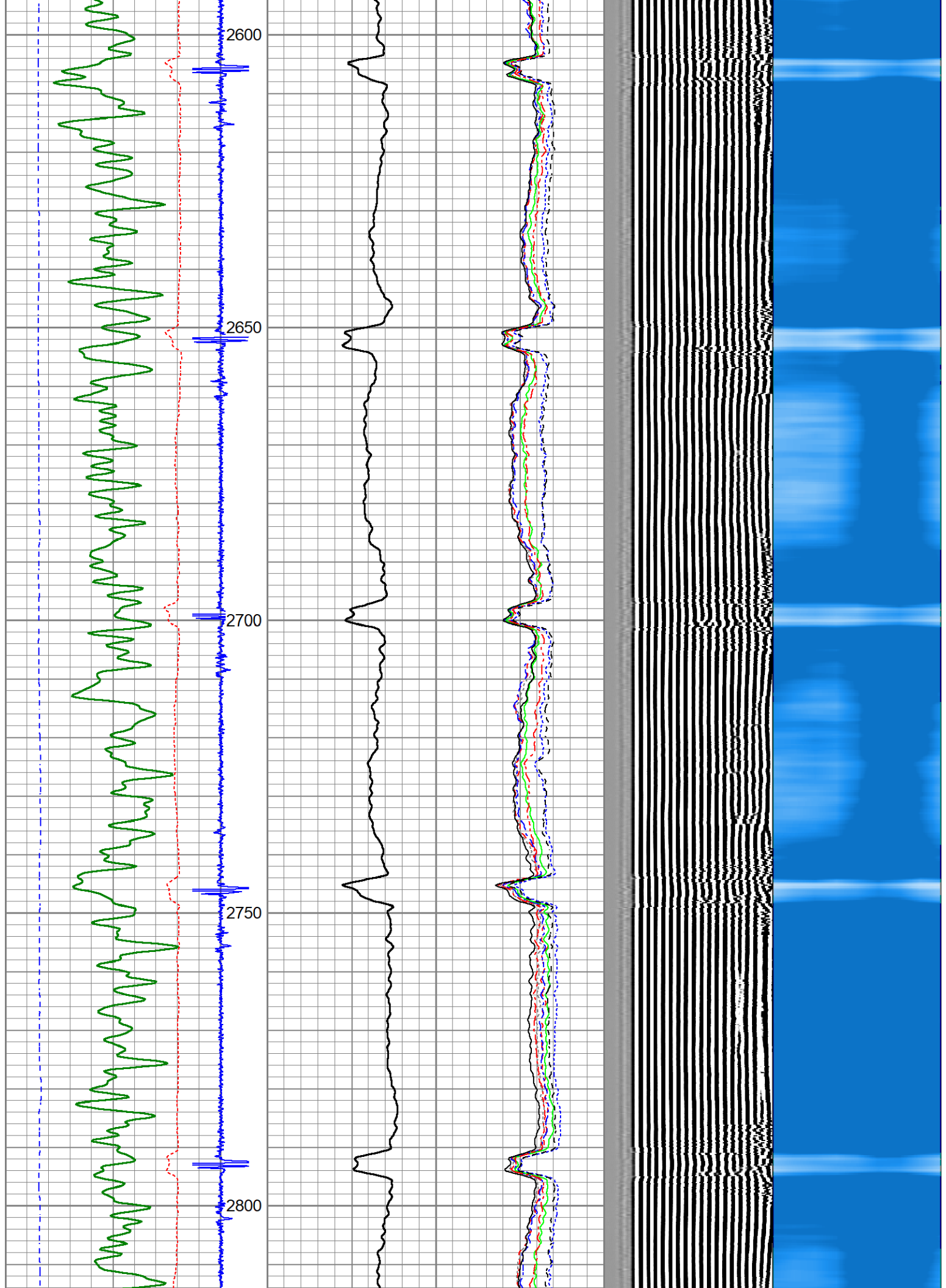


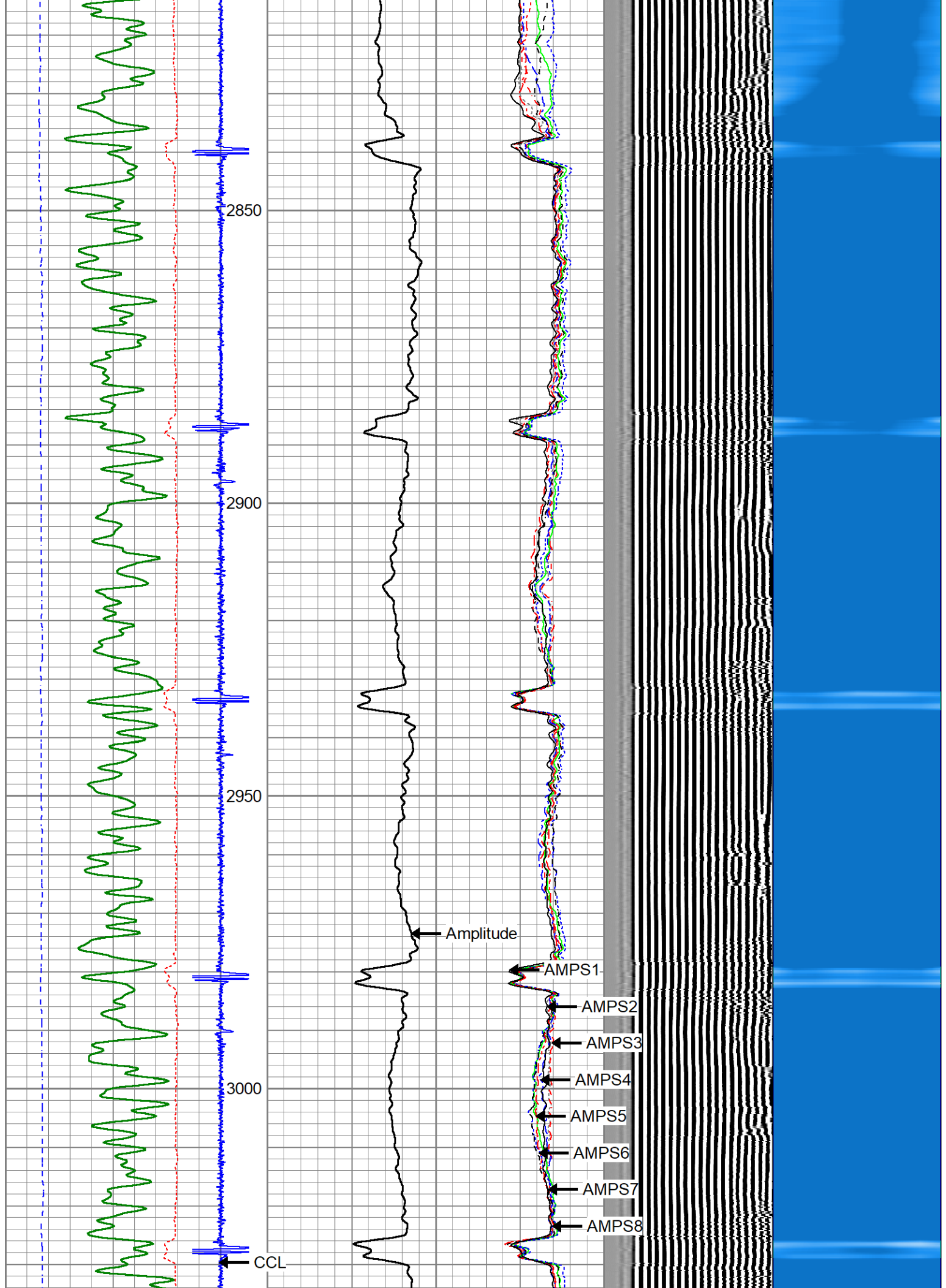


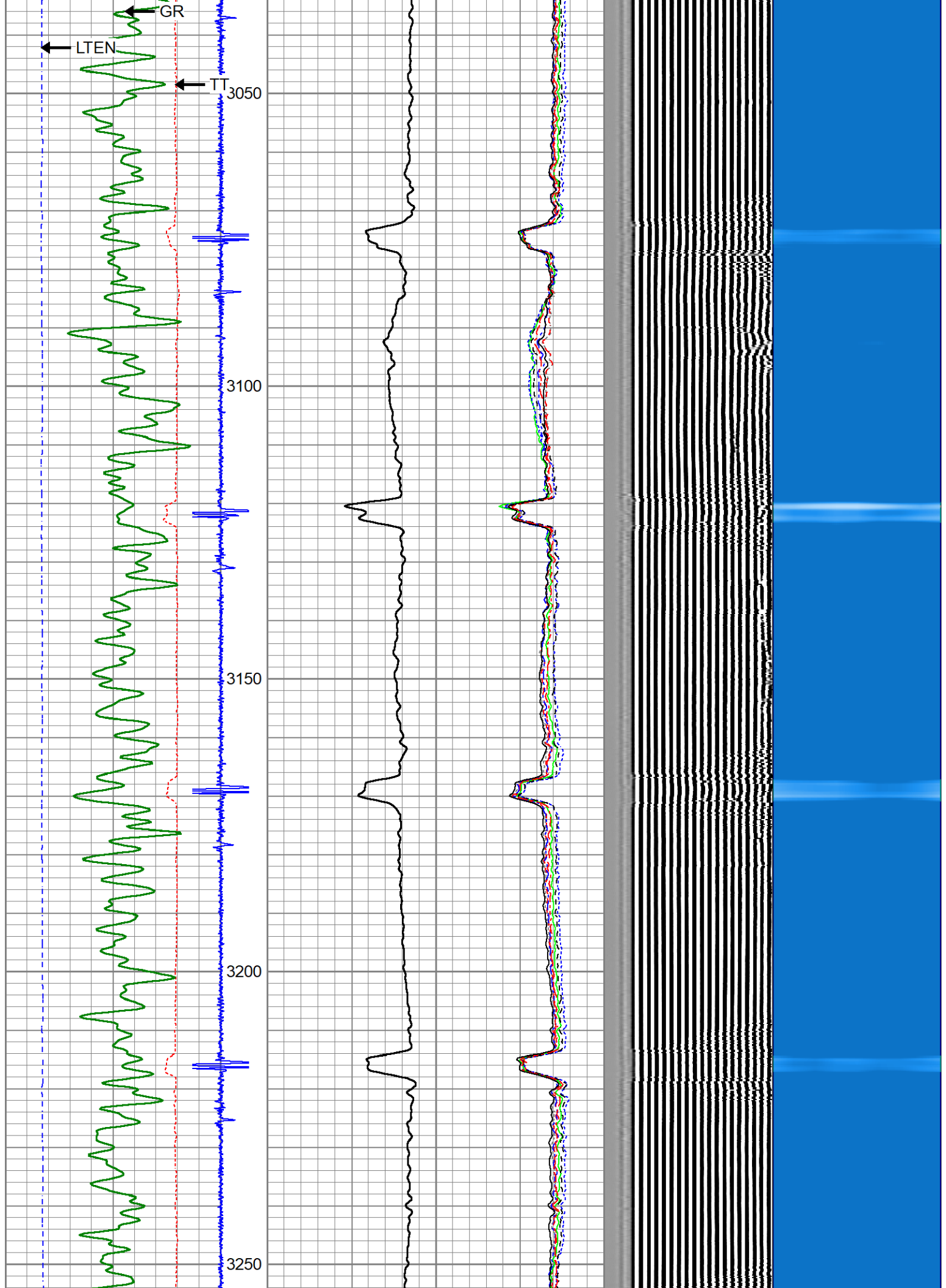


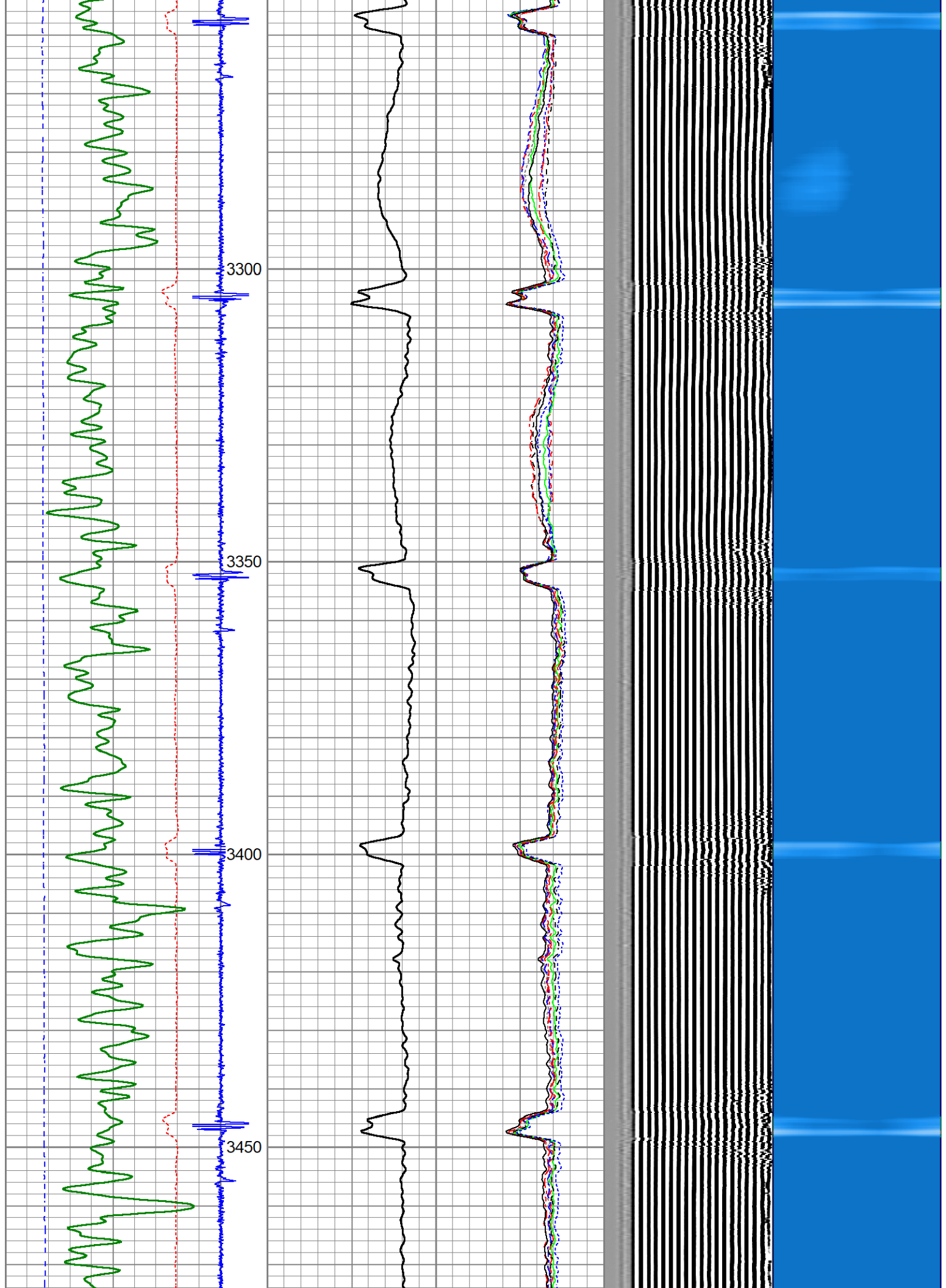


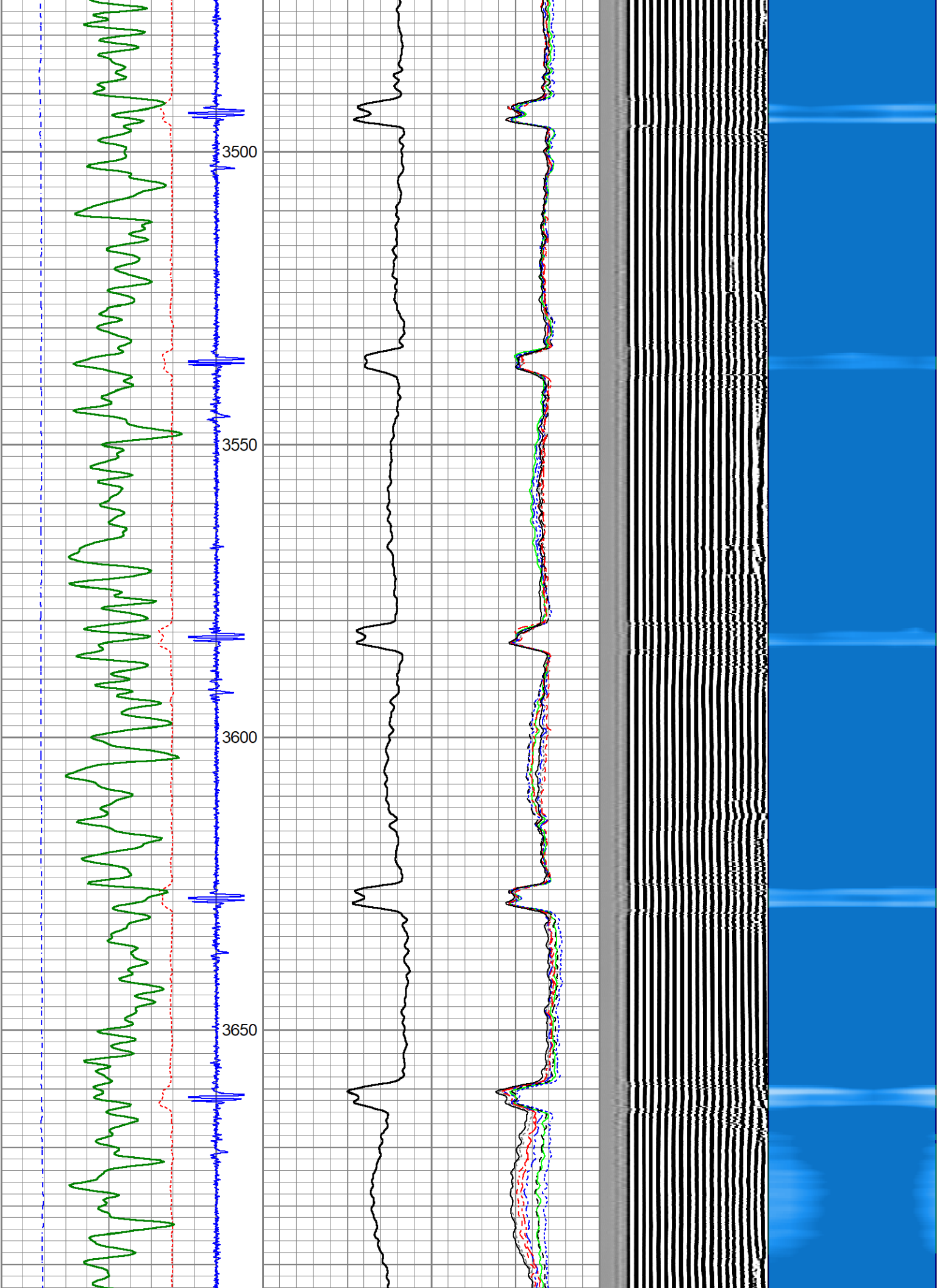


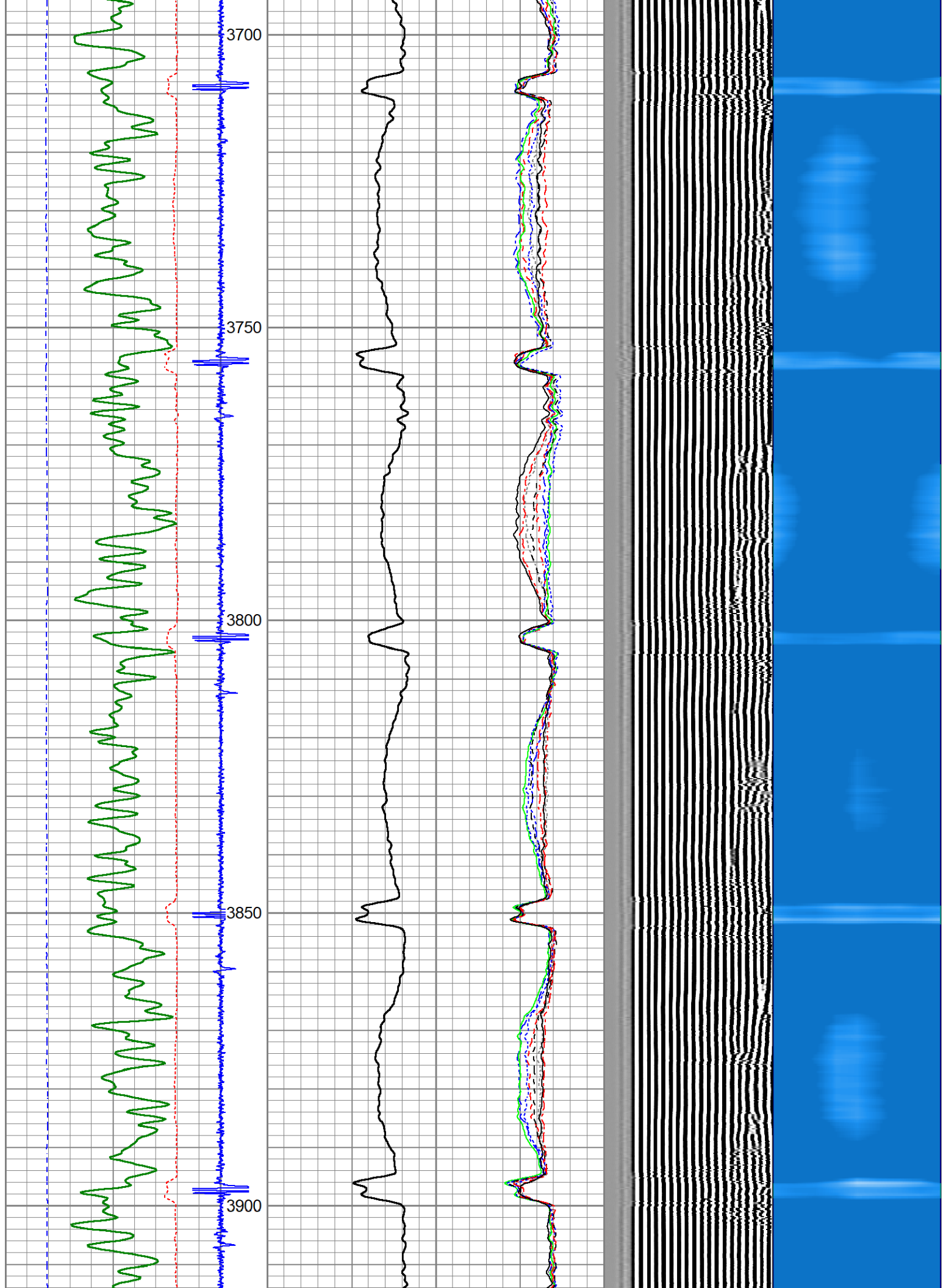


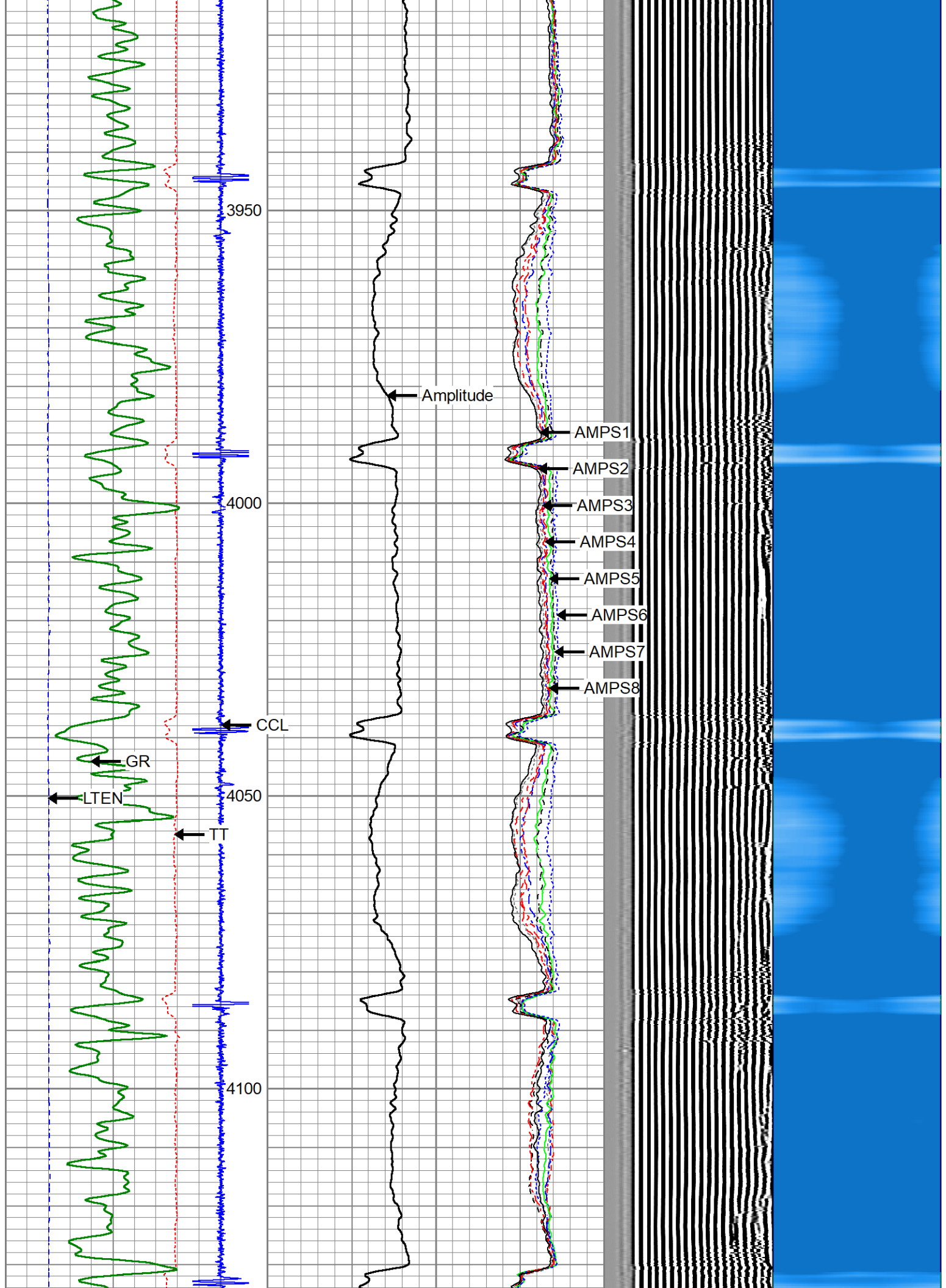


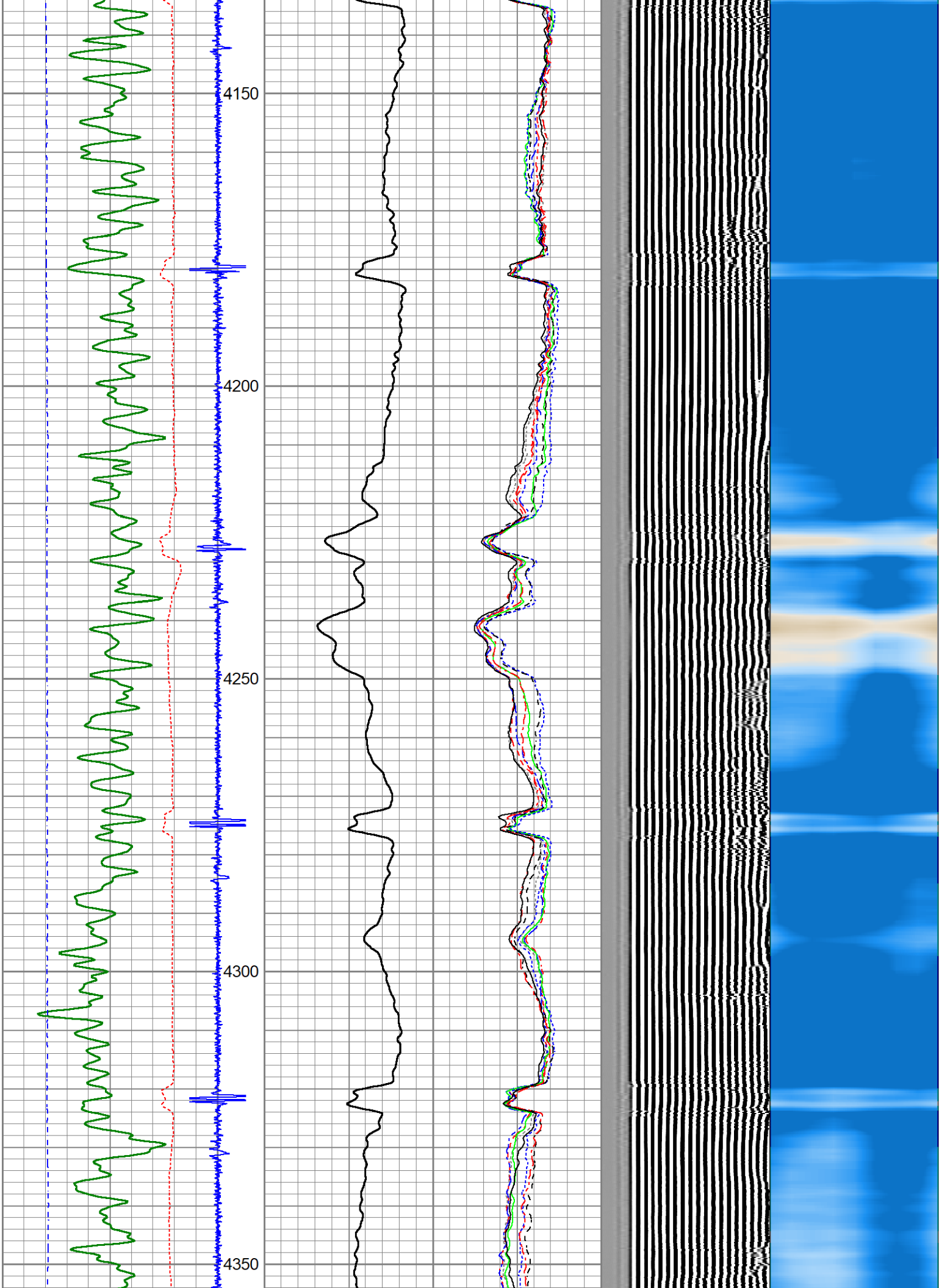


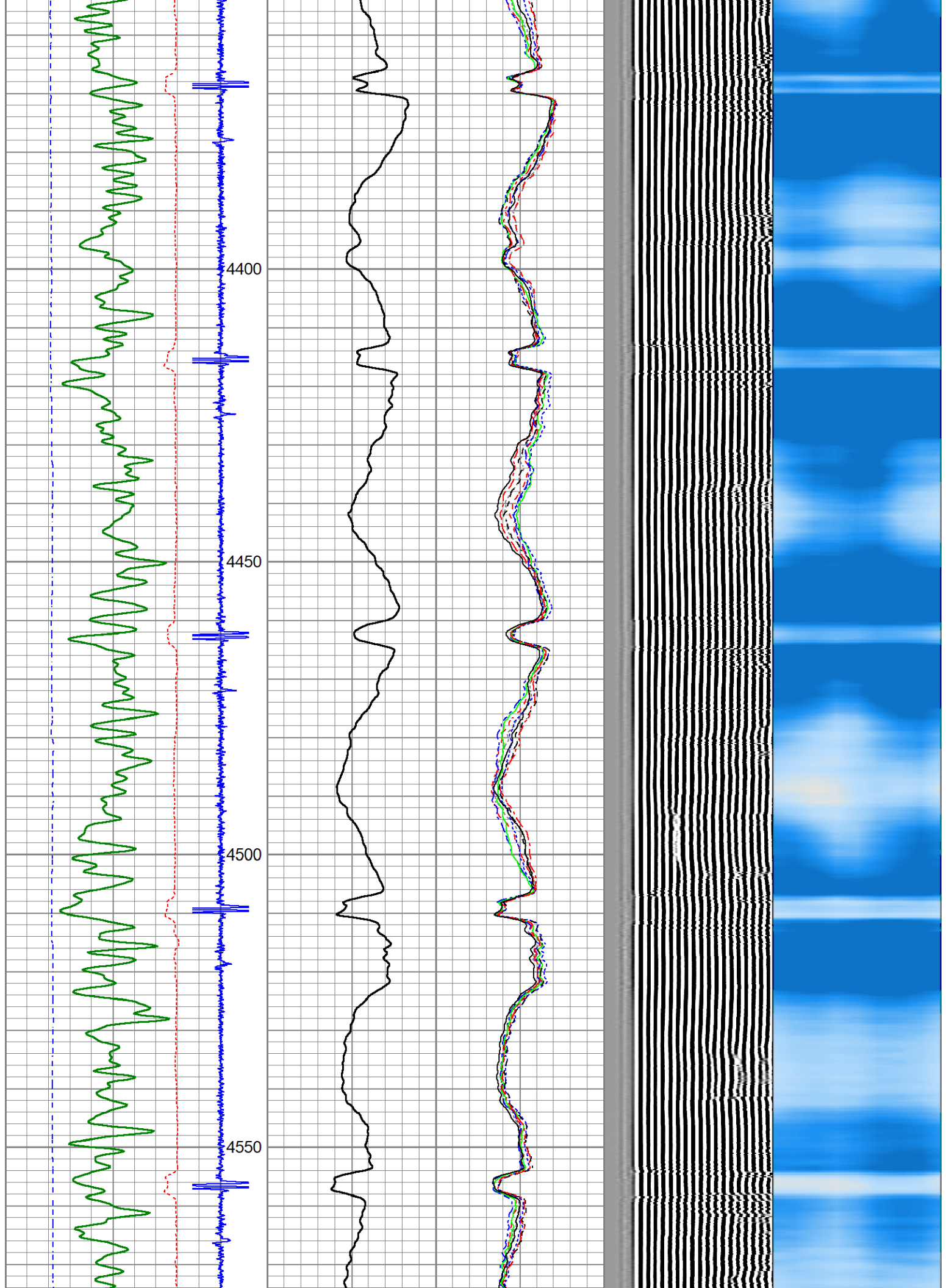


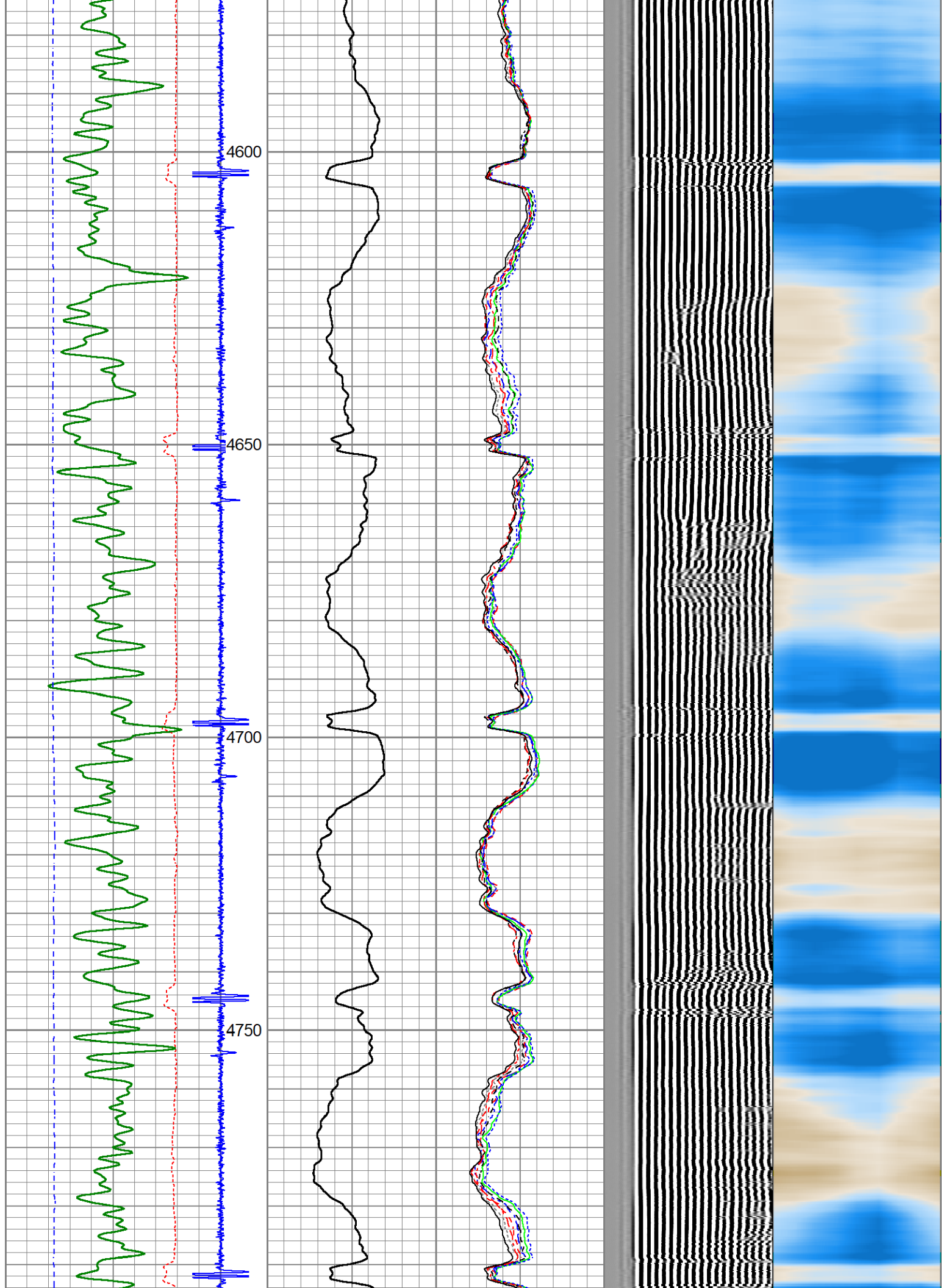


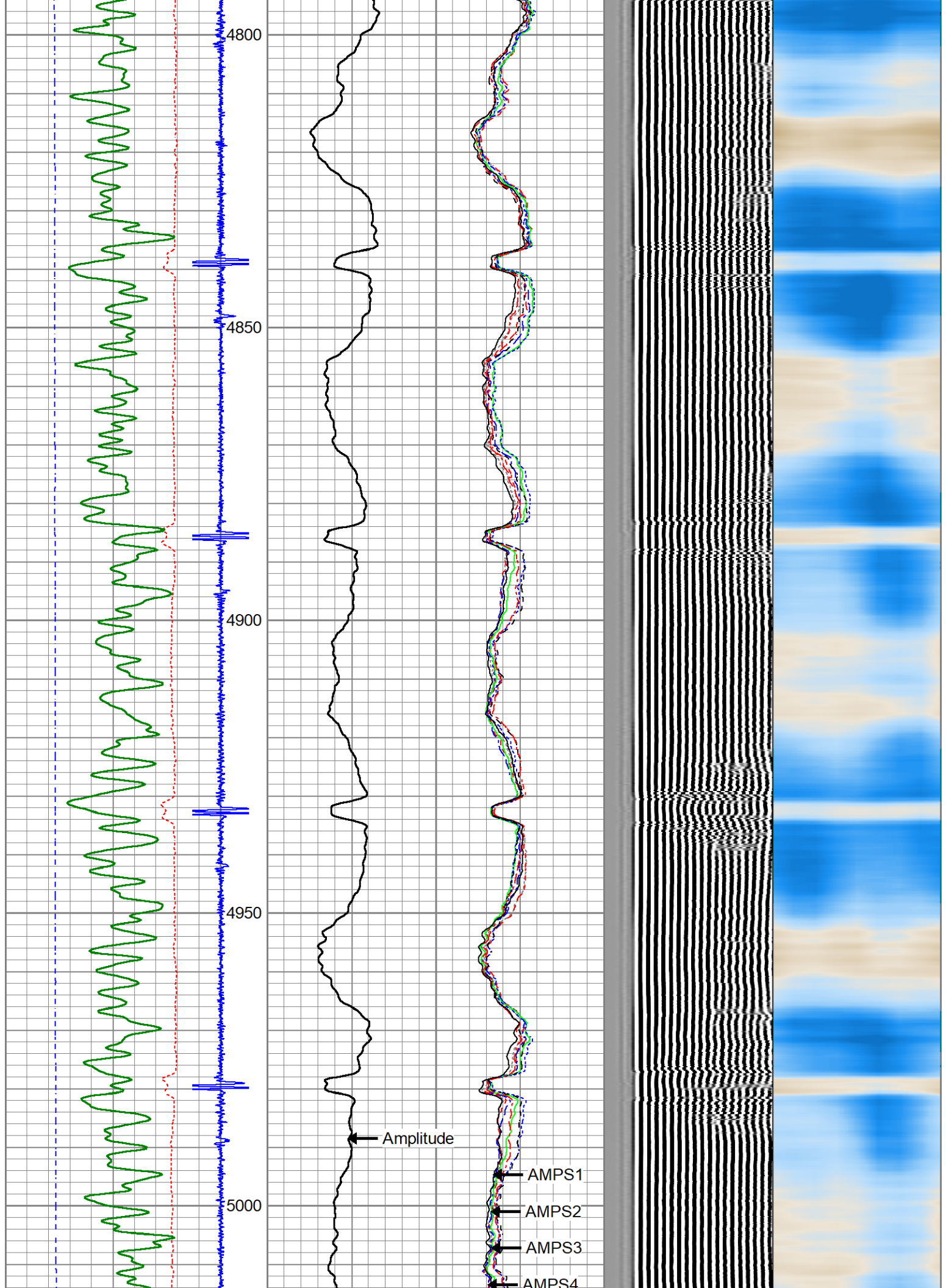


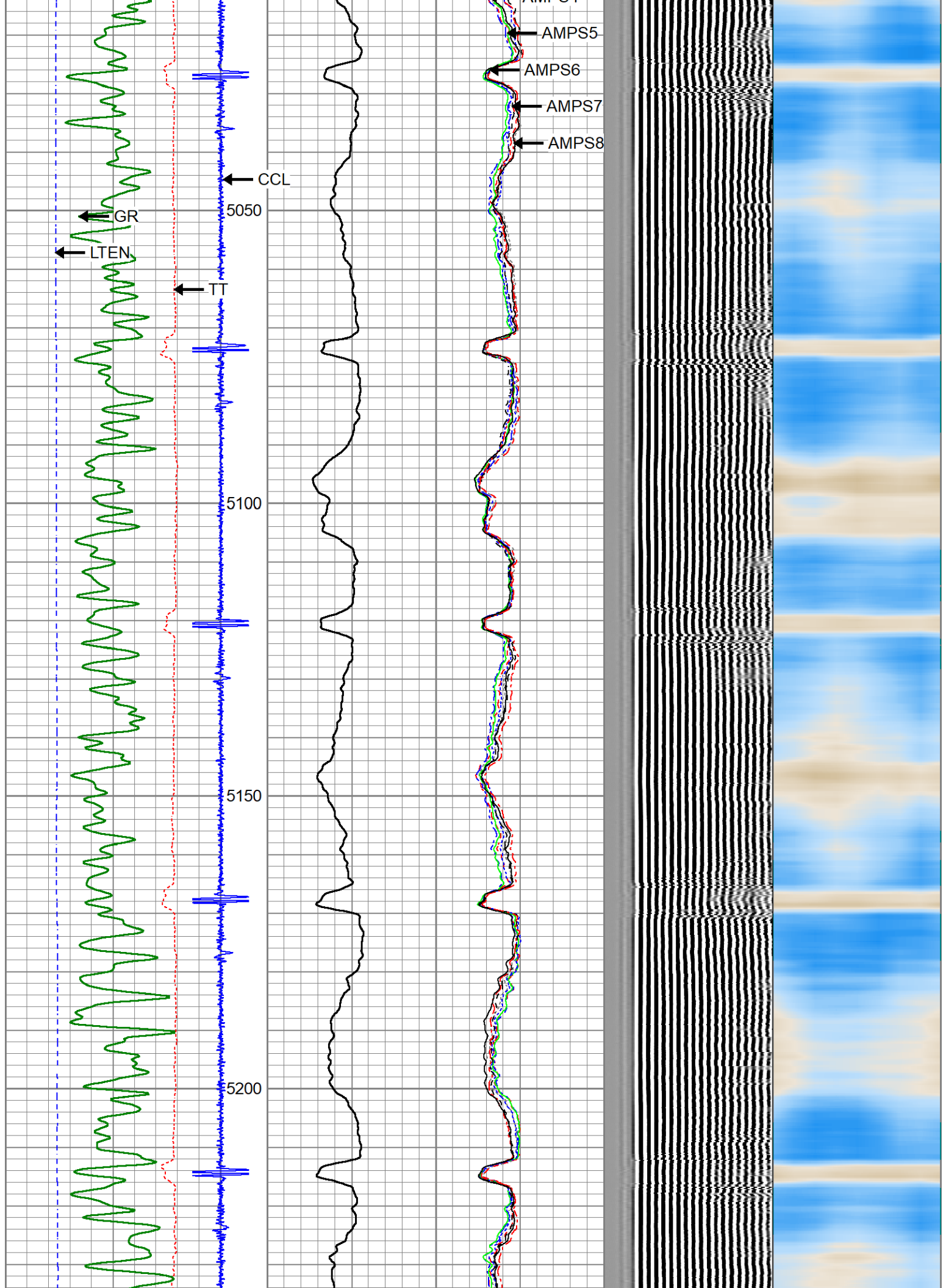


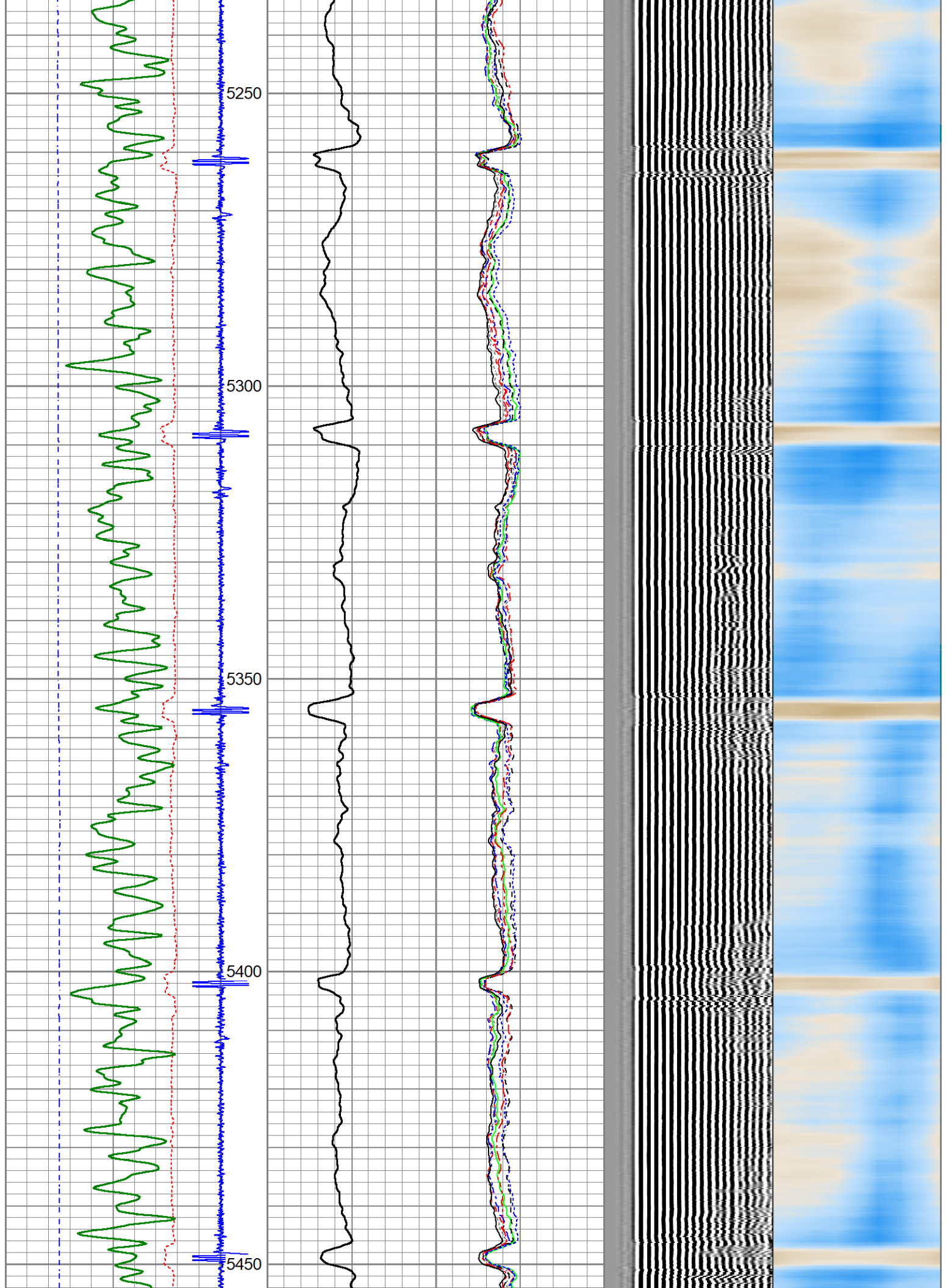


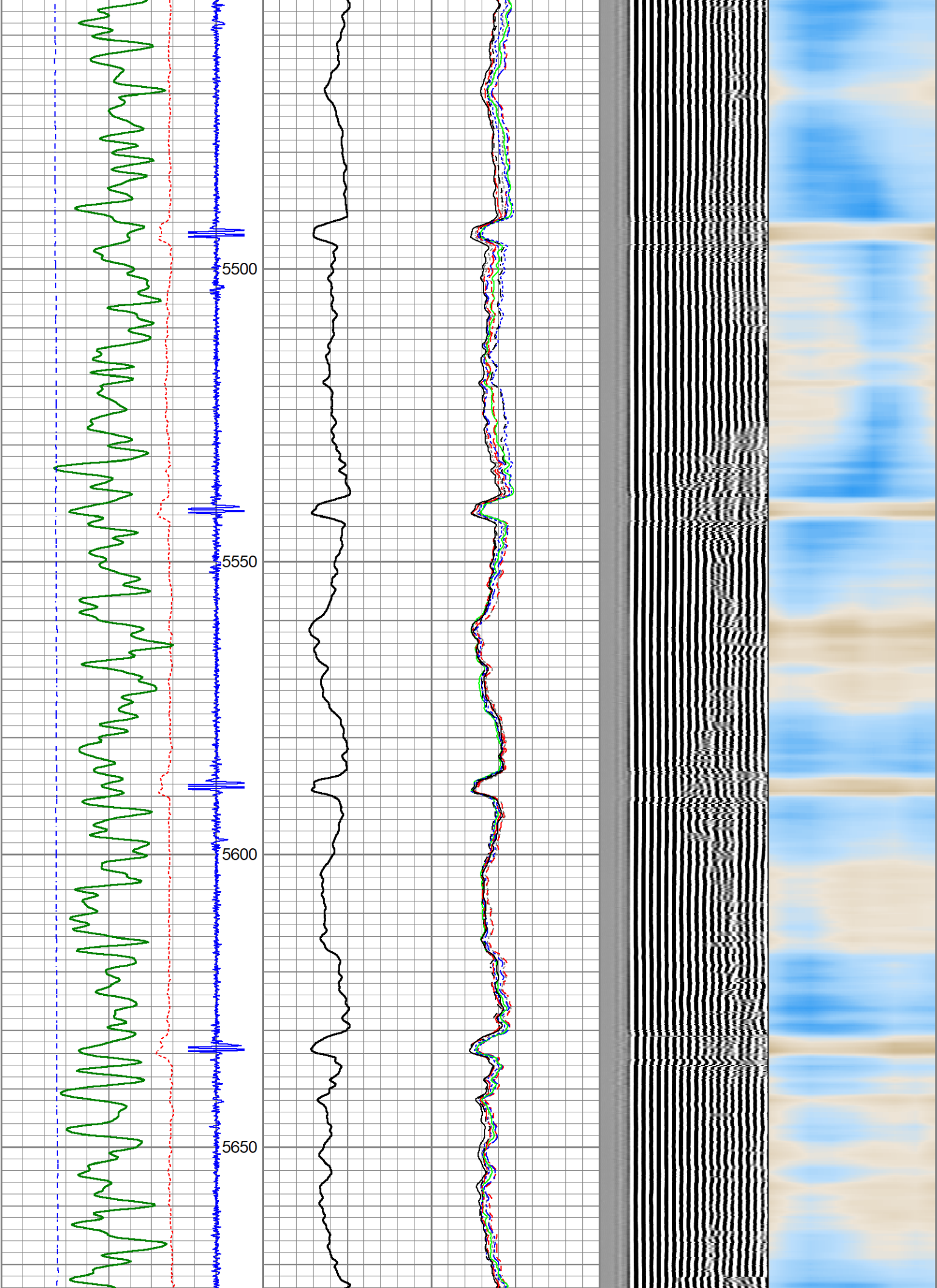


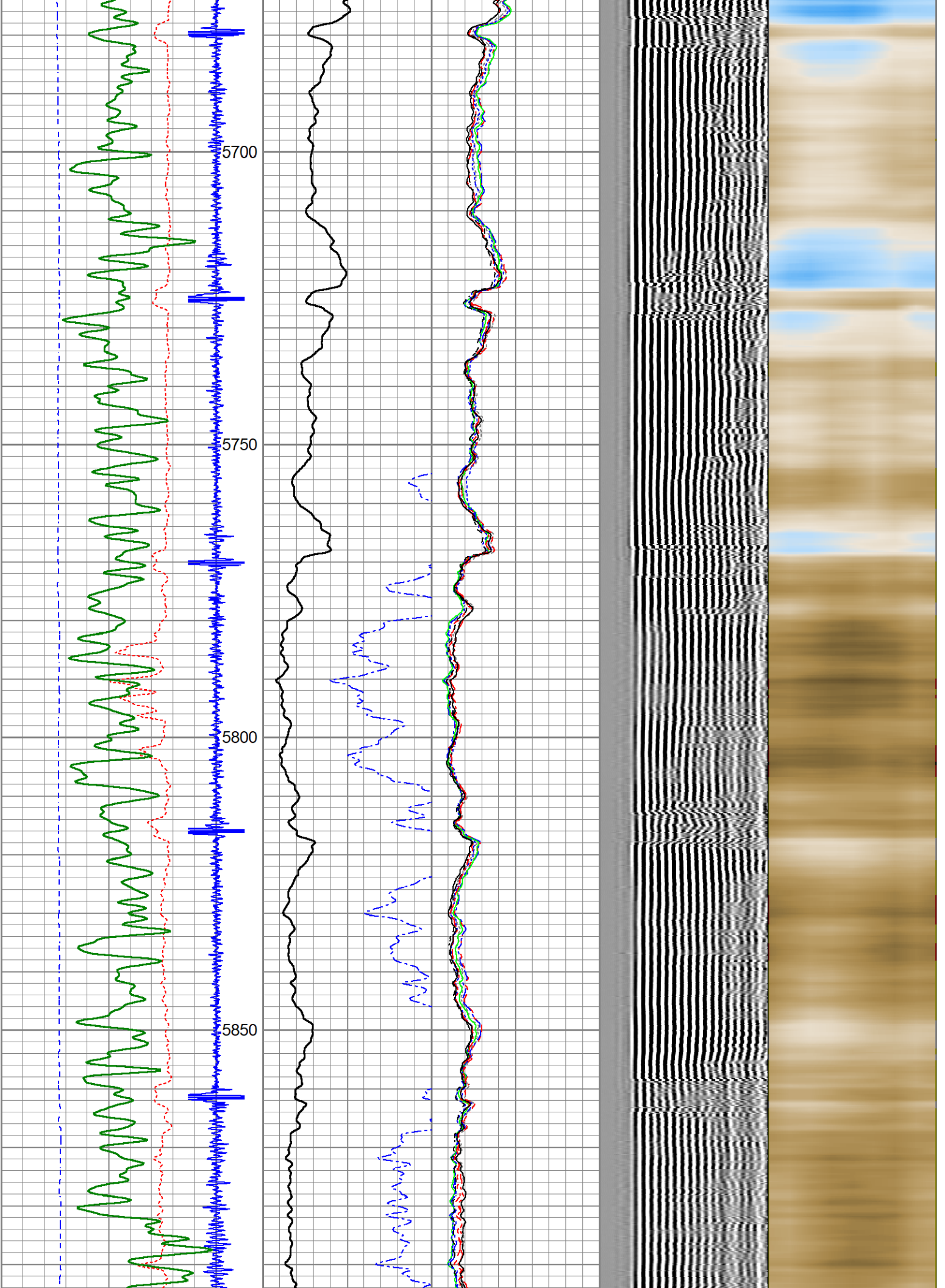


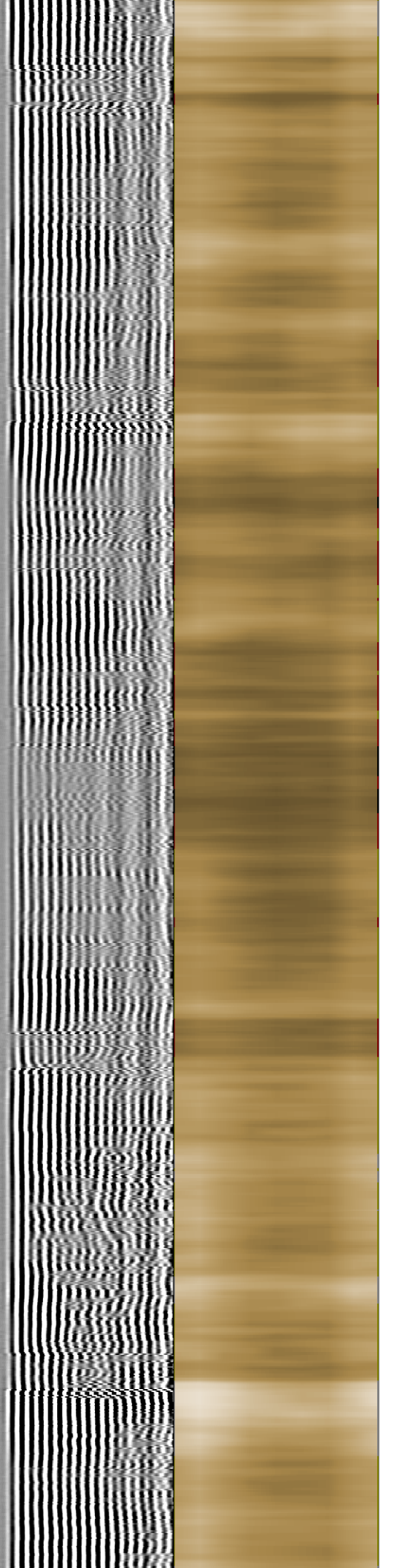
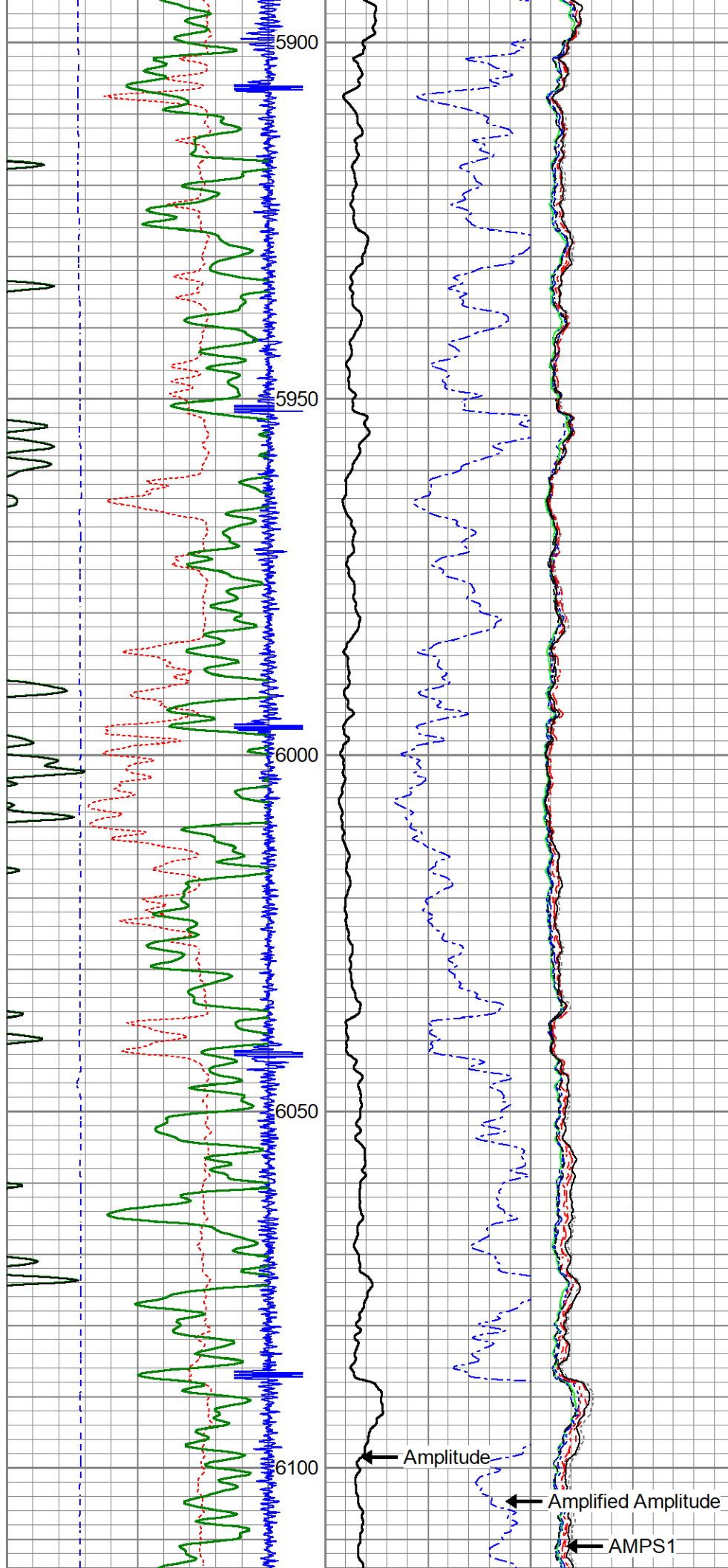


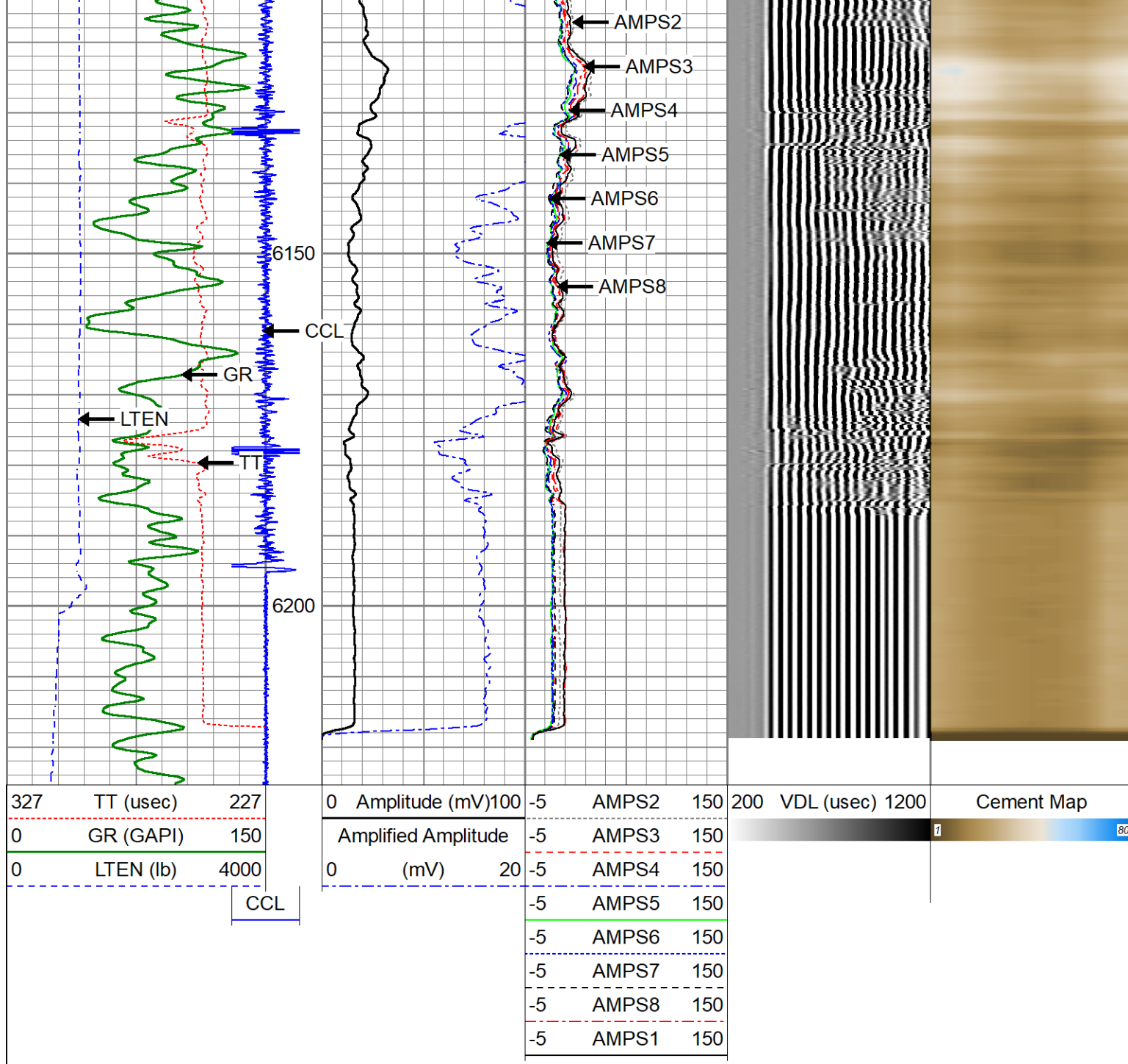






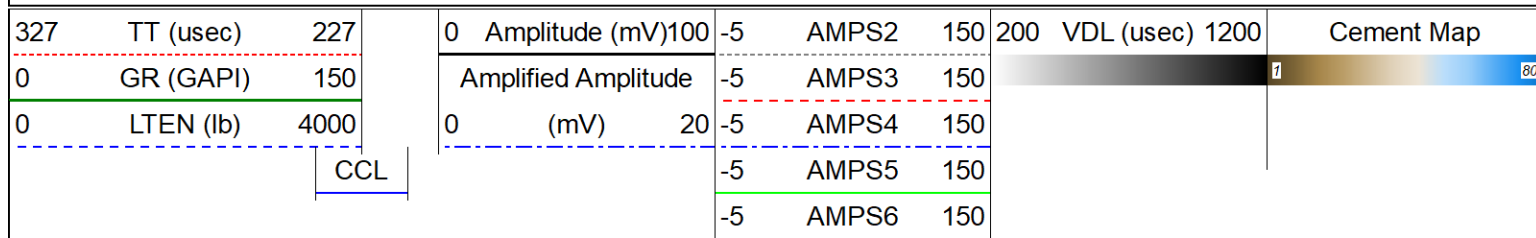




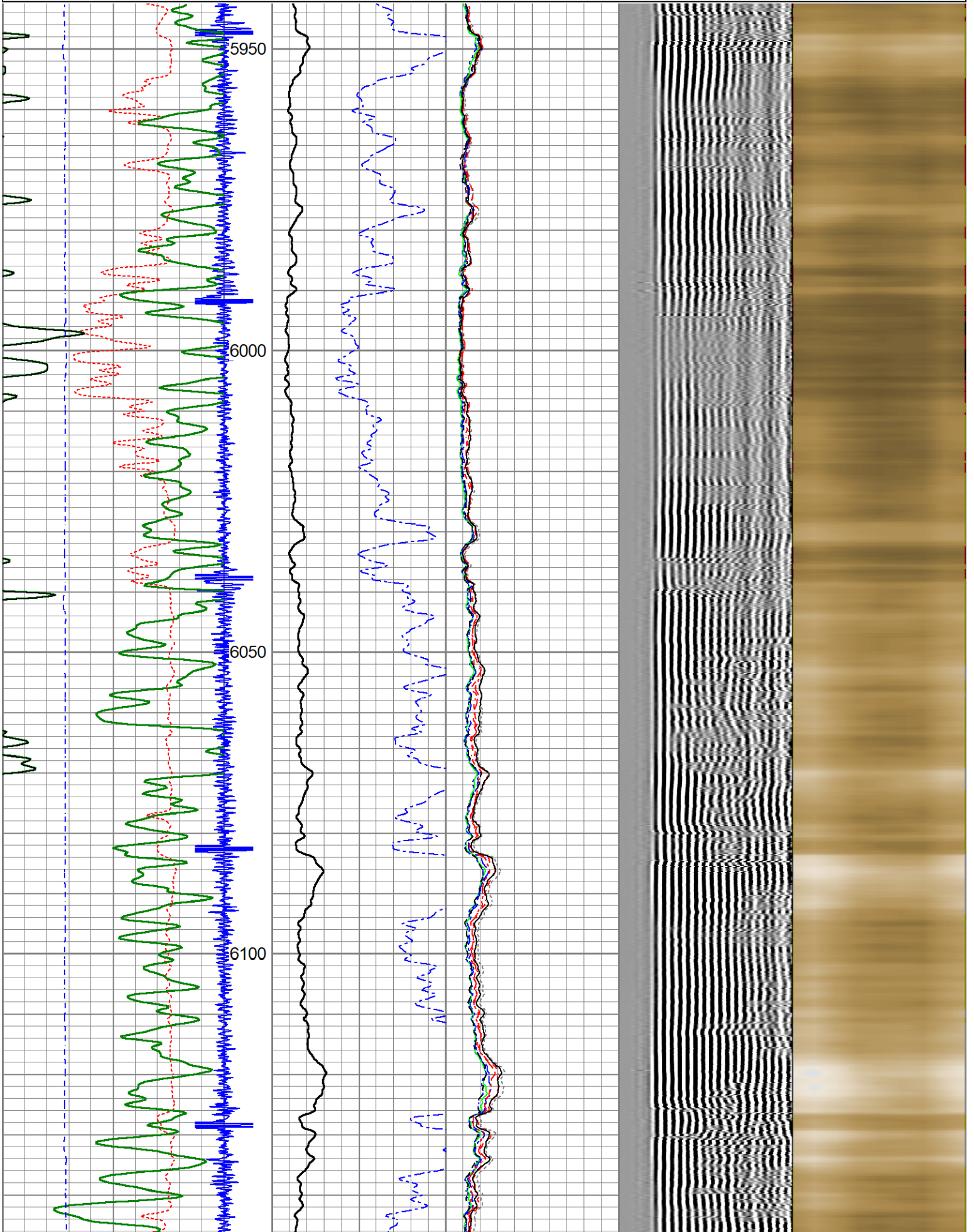


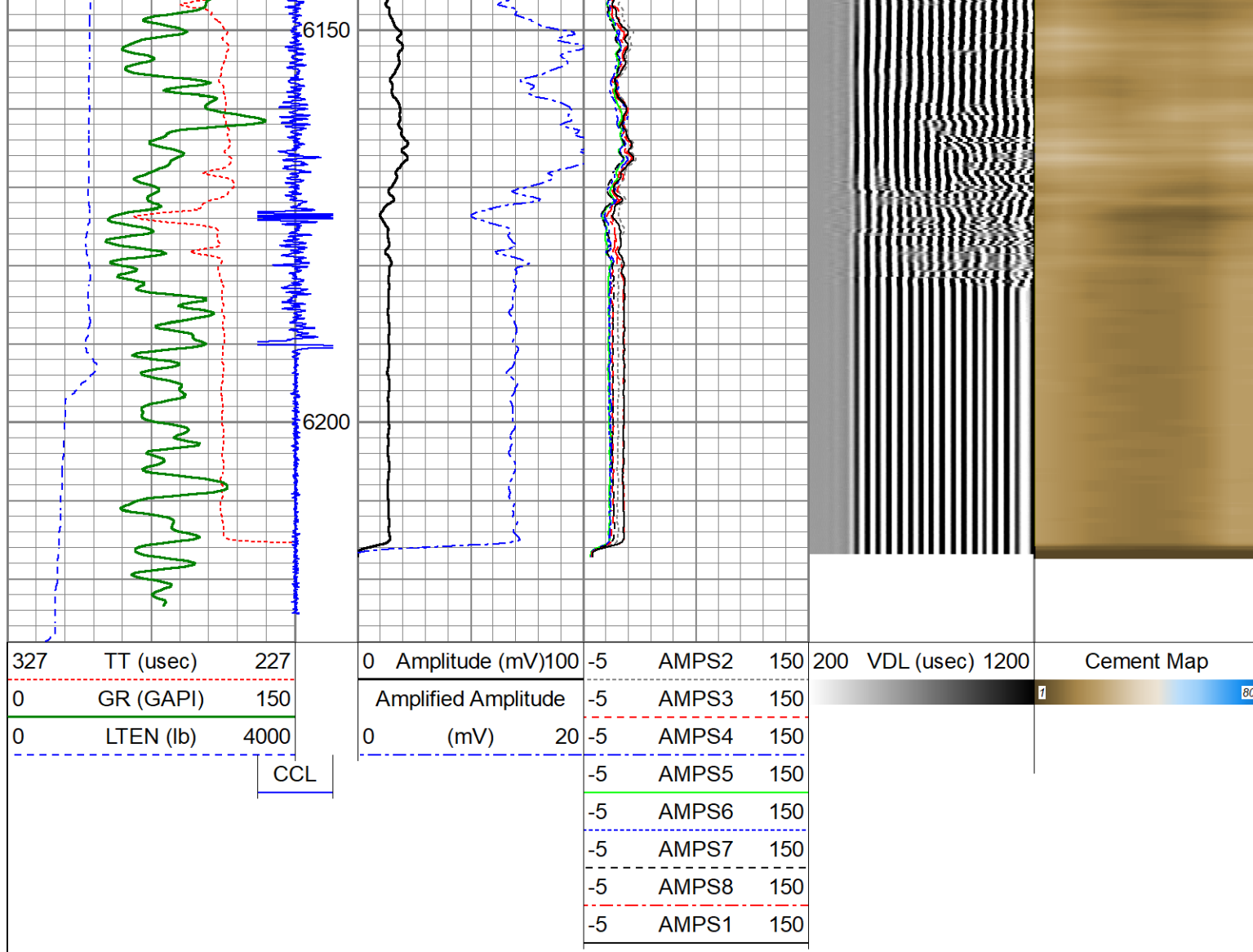
REPEAT PASS

Database File: hp_rsuanfed_04-62-02-6457c_cbl_11oct2018.db
 Dataset Pathname: pass3
 Presentation Format: scbl5_5
 Dataset Creation: Thu Oct 11 15:21:21 2018
 Charted by: Depth in Feet scaled 1:240



| | | |
|----|-------|-----|
| -5 | AMPS7 | 150 |
| -5 | AMPS8 | 150 |
| -5 | AMPS1 | 150 |





| Calibration Report | | |
|--------------------|---|--|
| Database File | hp_rsunsfed_04-62-02-6457c_cbl_11oct2018.db | |
| Dataset Pathname | pass5 | |
| Dataset Creation | Thu Oct 11 15:25:55 2018 | |

| Gamma Ray Calibration Report | | |
|------------------------------|-----------------|----------|
| Serial Number: | FW 1805-028 | |
| Tool Model: | 10227Digital | |
| Performed: | (Not Performed) | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 1.0000 | GAPI/cps |

| Temperature Calibration Report | | |
|--------------------------------|-----------------|-----------|
| Serial Number: | FW 1805-028 | |
| Tool Model: | 10227Digital | |
| Performed: | (Not Performed) | |
| | Reference | Reading |
| Low Reference: | 0.00 degF | 0.00 degF |
| High Reference: | 1.00 degF | 1.00 degF |

Gain: 1.00
Offset: 0.00
Delta Spacing 1

Segmented Cement Bond Log Calibration Report

Serial Number: FW 1804-082
Tool Model: 10627

Calibration Casing Diameter: 4.500 in
Calibration Depth: 2134.192 ft

Master Calibration, performed Thu Oct 11 09:53:16 2018:

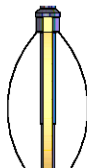
| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|---------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.008 | 0.478 | 1.000 | 81.196 | 170.703 | -0.329 |
| CAL | 0.012 | 0.780 | | | | |
| 5' | 0.021 | 0.398 | 1.000 | 81.196 | 212.315 | -3.354 |
| SUM | | | | | | |
| S1 | 0.004 | 0.487 | 1.800 | 100.000 | 203.350 | 0.944 |
| S2 | 0.007 | 0.471 | 1.800 | 100.000 | 211.643 | 0.389 |
| S3 | 0.007 | 0.456 | 1.800 | 100.000 | 218.846 | 0.272 |
| S4 | 0.007 | 0.451 | 1.800 | 100.000 | 221.162 | 0.245 |
| S5 | 0.009 | 0.452 | 1.800 | 100.000 | 221.998 | -0.246 |
| S6 | 0.007 | 0.488 | 1.800 | 100.000 | 204.259 | 0.366 |
| S7 | 0.005 | 0.529 | 1.800 | 100.000 | 187.335 | 0.821 |
| S8 | 0.007 | 0.543 | 1.800 | 100.000 | 183.218 | 0.447 |

Internal Reference Calibration, performed Fri Jul 20 08:35:42 2018:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.012 | 0.780 | 1.000 | 0.000 |

Air Zero Calibration, performed Thu Jul 26 10:13:44 2018:

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

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|---|-------------|-------------|-----------|-------------|
| | |  | CENT-PTS275 | 2.83 | 2.75 | 24.00 |

| | | |
|--|---------|----------------------------|
|  | Company | HIGHPOINT RESOURCES |
| | Well | RSU ANS FED 04-62-02-6457C |
| | Field | BRIGGSDALE |

3

County
State

WELD
COLORADO

Country