



**RADIAL CEMENT BOND LOG
VARIABLE DENSITY
GAMMA RAY / CCL**

| | | | | | |
|------------------------|--|------------------------------------|--|----------------------|--|
| Company | | BAYSWATER EXPLORATION & PRODUCTION | | | |
| Well | | MATRIX N-29HC | | | |
| Field | | WATTENBERG | | | |
| County | | WELD | | | |
| State | | COLORADO | | | |
| Company | | BAYSWATER EXPLORATION & PRODUCTION | | | |
| Well | | MATRIX N-29HC | | | |
| Field | | WATTENBERG | | | |
| County | | WELD | | | |
| State | | COLORADO | | | |
| Location: | | API # : 05123407940000 | | | |
| Permanent Datum | | SEC 29 TWP 6N RGE 65W | | Other Services | |
| Log Measured From | | GL | | NONE | |
| Drilling Measured From | | KELLY BUSHING | | Elevation 4708' | |
| Date | | 25 MAR 2015 | | K.B. D.F. G.L. 4708' | |
| Run Number | | 1 | | | |
| Depth Driller | | 7006.57' LT | | | |
| Depth Logger | | 7124' | | | |
| Bottom Logged Interval | | 7119' | | | |
| Top Log Interval | | 0' | | | |
| Open Hole Size | | 8.75 | | | |
| Type Fluid | | Water | | | |
| Density / Viscosity | | 8.34 | | | |
| Max. Recorded Temp. | | N/A | | | |
| Estimated Cement Top | | 108' | | | |
| Time Well Ready | | 09:30 | | | |
| Time Logger on Bottom | | 10:00 | | | |
| Equipment Number | | 13034 | | | |
| Location | | Brighton CO | | | |
| Recorded By | | Jon Ostler | | | |
| Witnessed By | | Jack Bruner | | | |
| Run Number | | Bit | | Tubing Record | |
| | | From | | To | |
| | | Size | | Weight | |
| | | | | From | |
| | | | | To | |
| Casing Record | | Size | | Wgt/Ft | |
| Surface String | | 7" | | Top | |
| Prod. String | | | | Bottom | |
| Production String | | | | Surface | |
| Liner | | 4.5" | | 7007' | |

<<< Fold Here >>>

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

Primary Log on Well

Log Measured from Ground Level
Main and Repeat Pass logged w/ 0 PSI
Estimated Top of Cement @ 108'

Thank you for using Allied Horizontal Wireline Service
(303) 659-4609



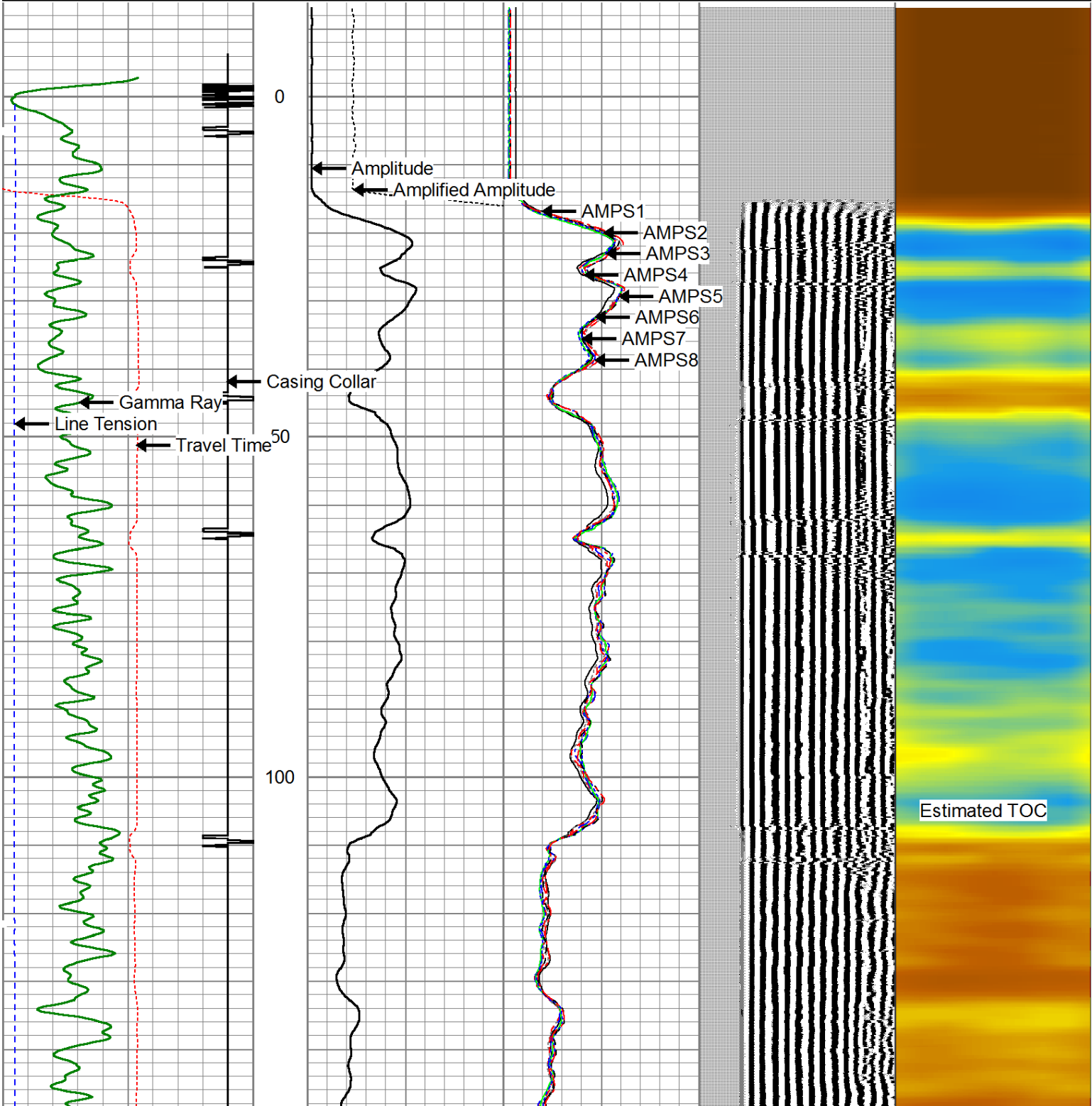
MAIN PASS (0 PSI)

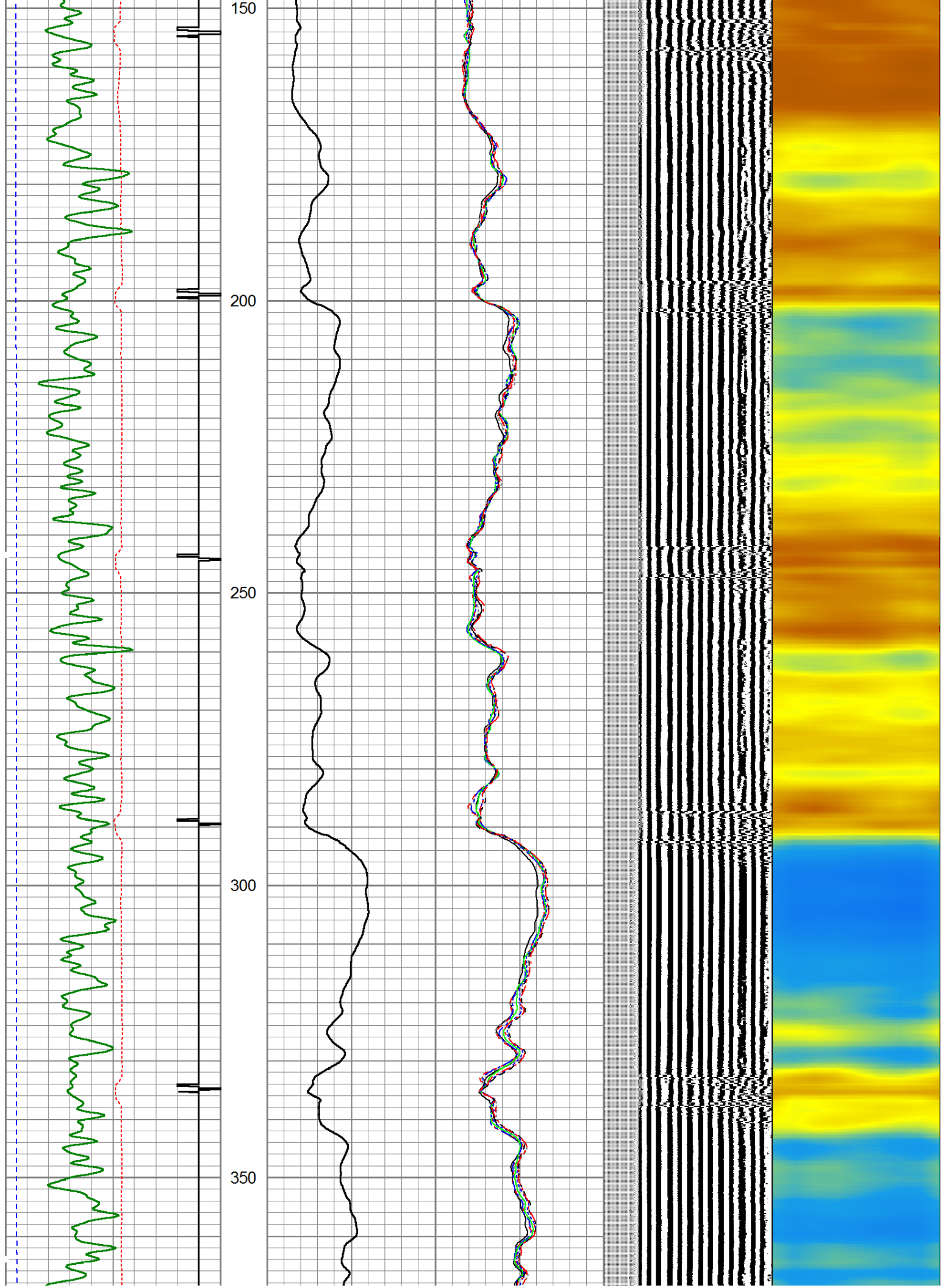
Database File: bayswater_matrix_n-29hc_cbl.db
Dataset Pathname: merge1
Presentation Format: scbl03
Dataset Creation: Wed Mar 25 10:36:19 2015
Charted by: Depth in Feet scaled 1:240

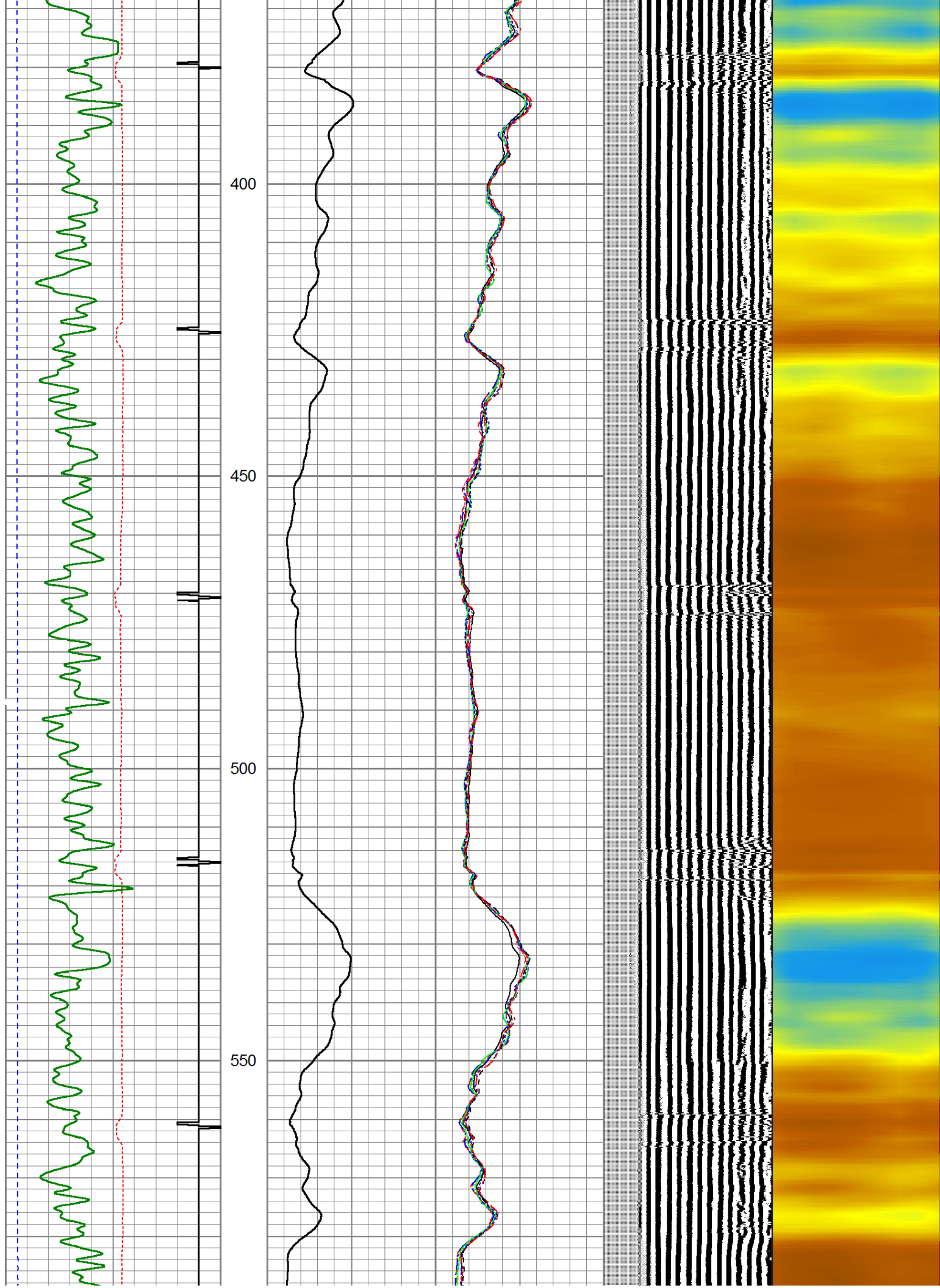
| | | |
|-----|--------------------|------|
| 400 | Travel Time (usec) | 200 |
| 9 | Casing Collar | -1 |
| 0 | Gamma Ray (GAPI) | 150 |
| 0 | Line Tension (lb) | 5000 |

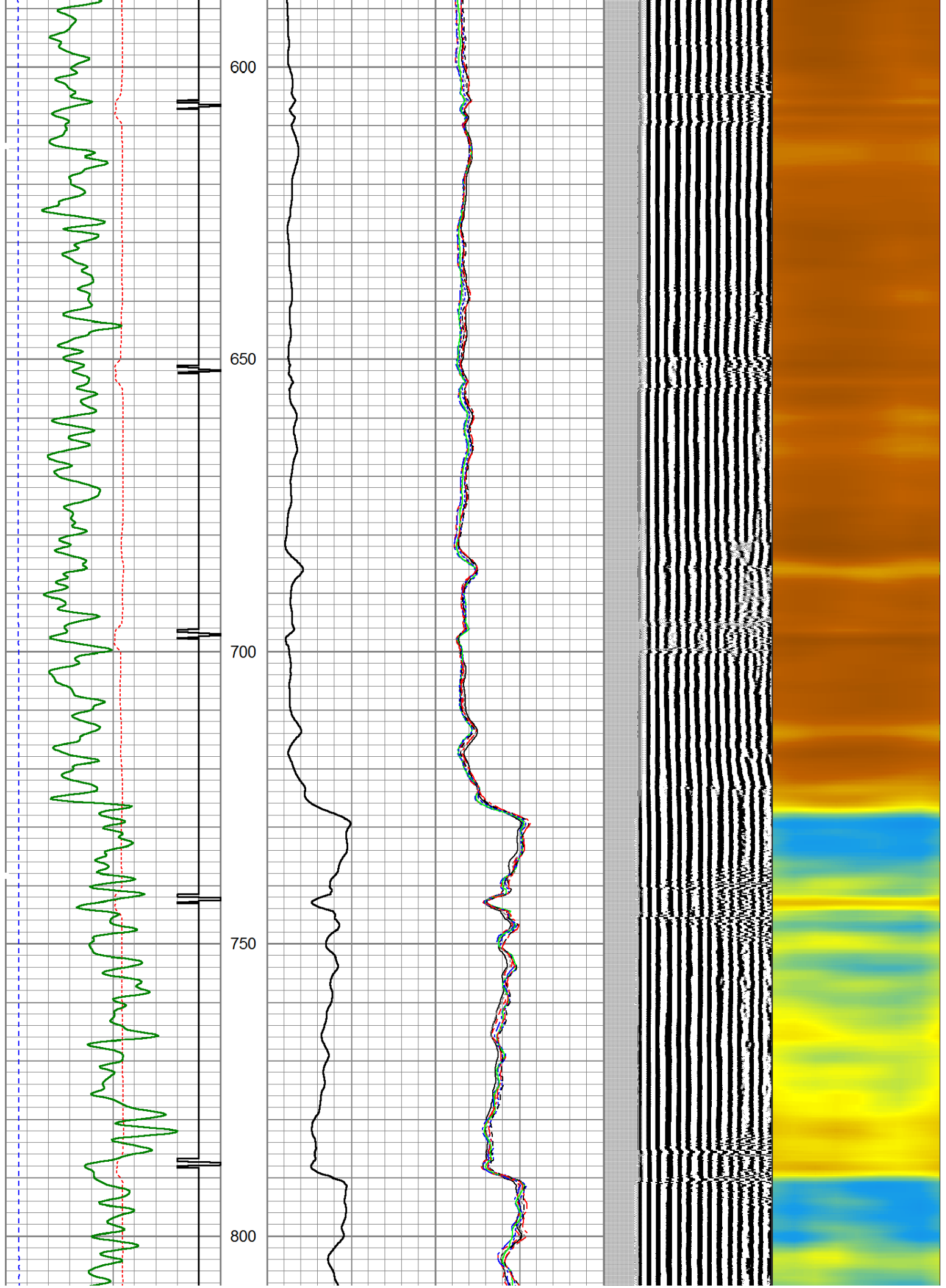
| | | | | | |
|---|---------------------|-----|----|-------|-----|
| 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 |
| | Amplified Amplitude | | -5 | AMPS2 | 150 |
| 0 | (mV) | 10 | -5 | AMPS3 | 150 |
| | | | -5 | AMPS4 | 150 |
| | | | -5 | AMPS5 | 150 |
| | | | -5 | AMPS6 | 150 |
| | | | -5 | AMPS7 | 150 |
| | | | -5 | AMPS8 | 150 |

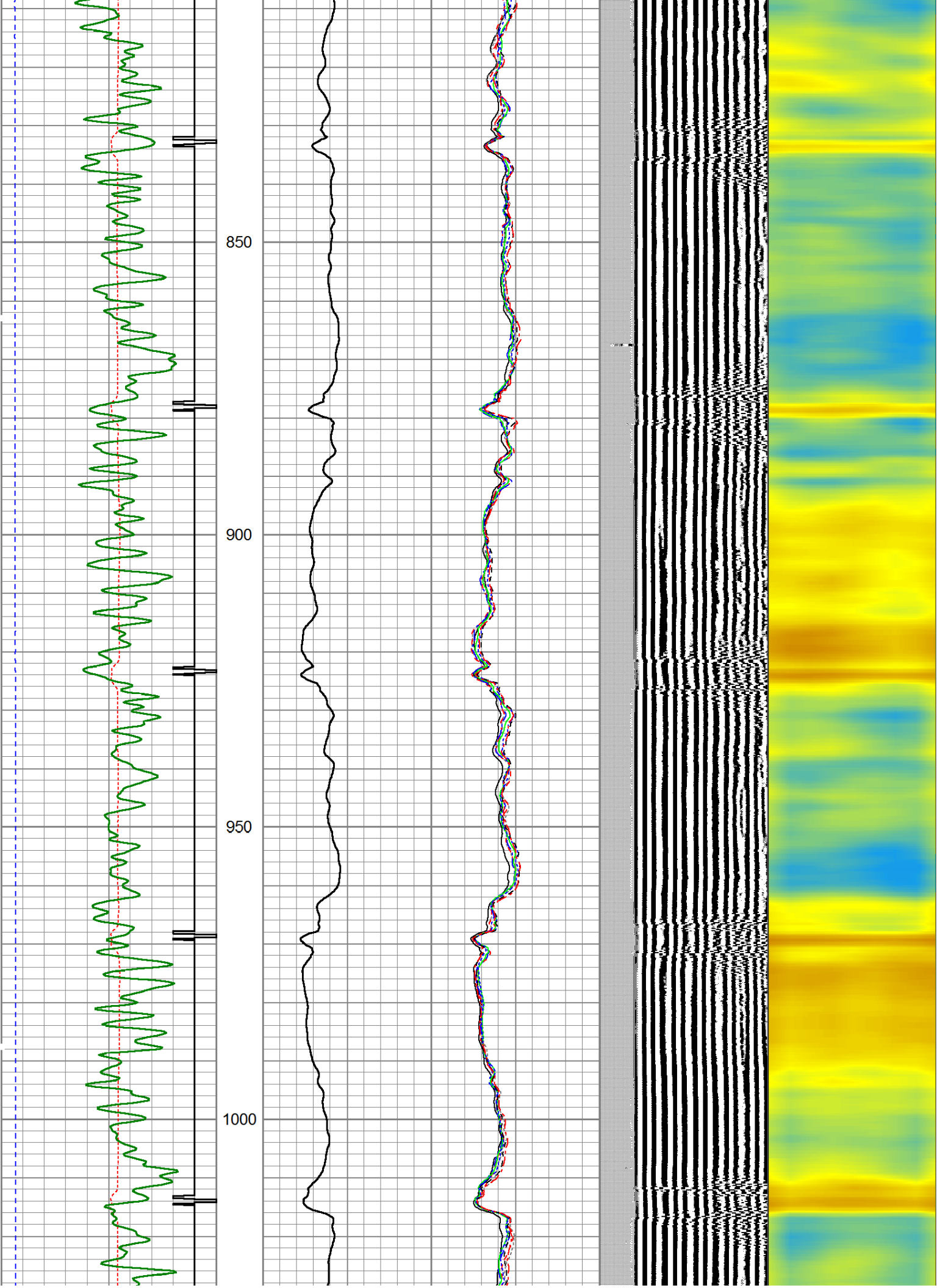
| | | | | |
|------------------|------|---|------------|-----|
| Variable Density | | 1 | Cement Map | 8 |
| 200 | 1200 | 0 | | 100 |

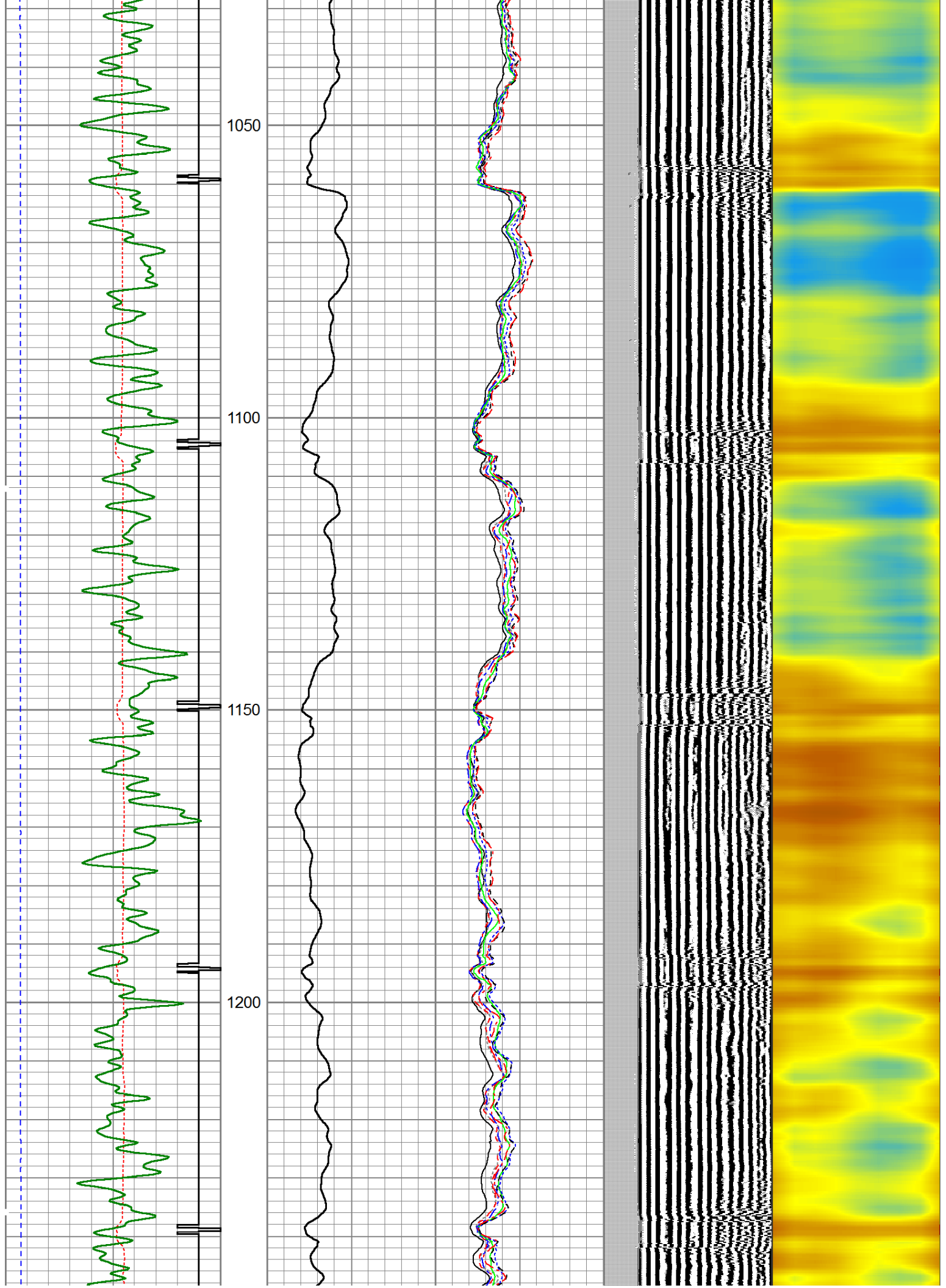


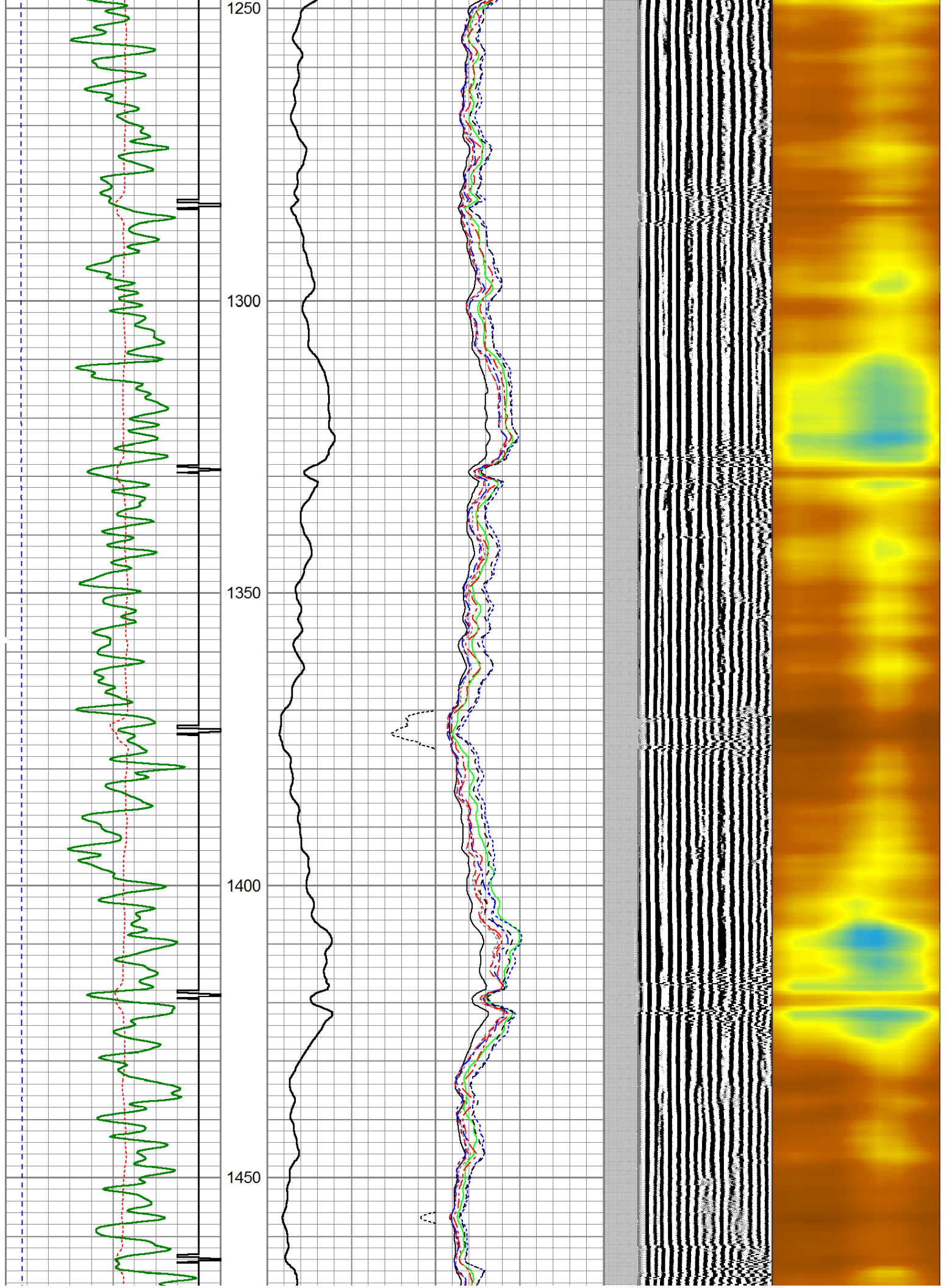


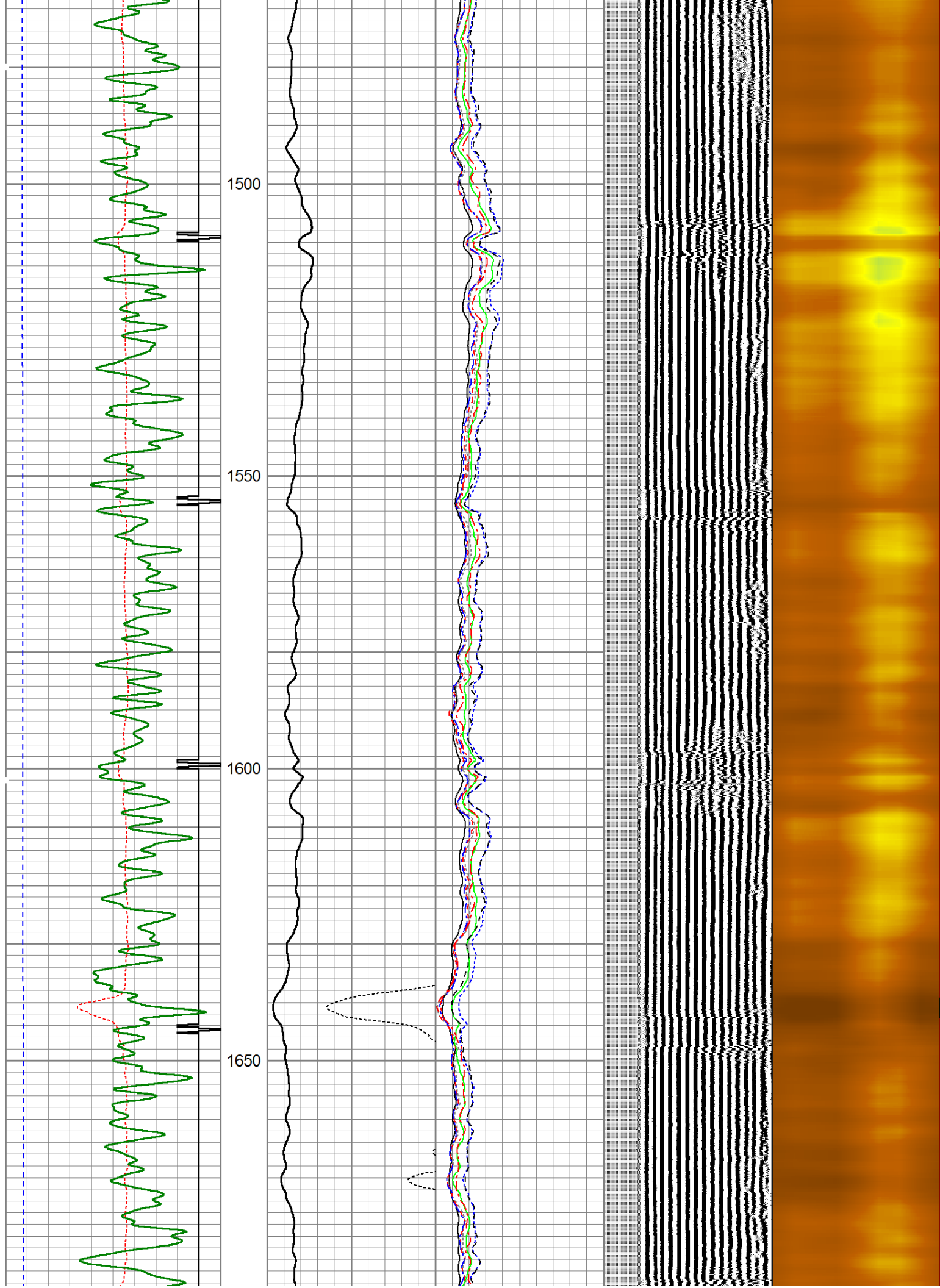


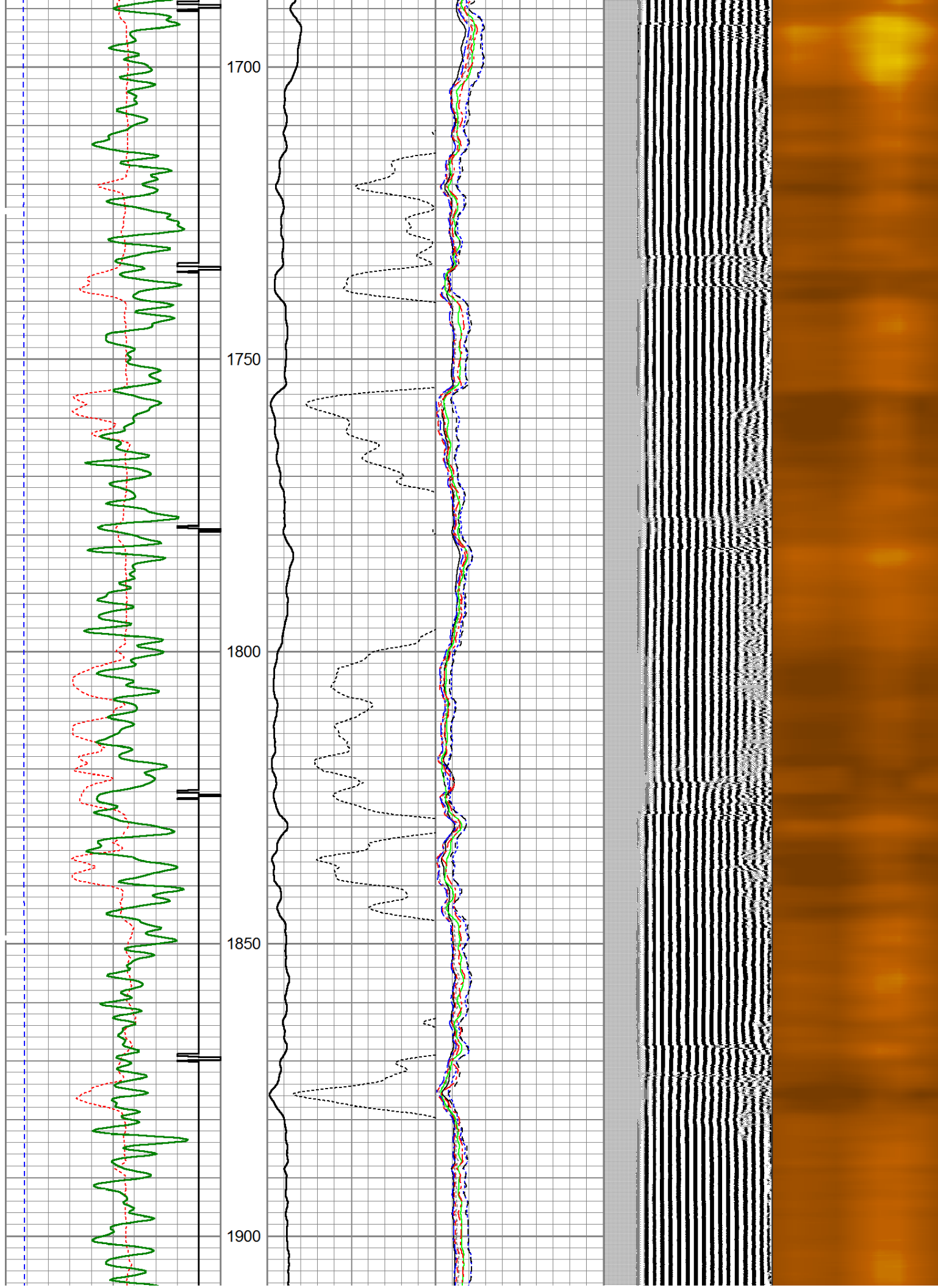


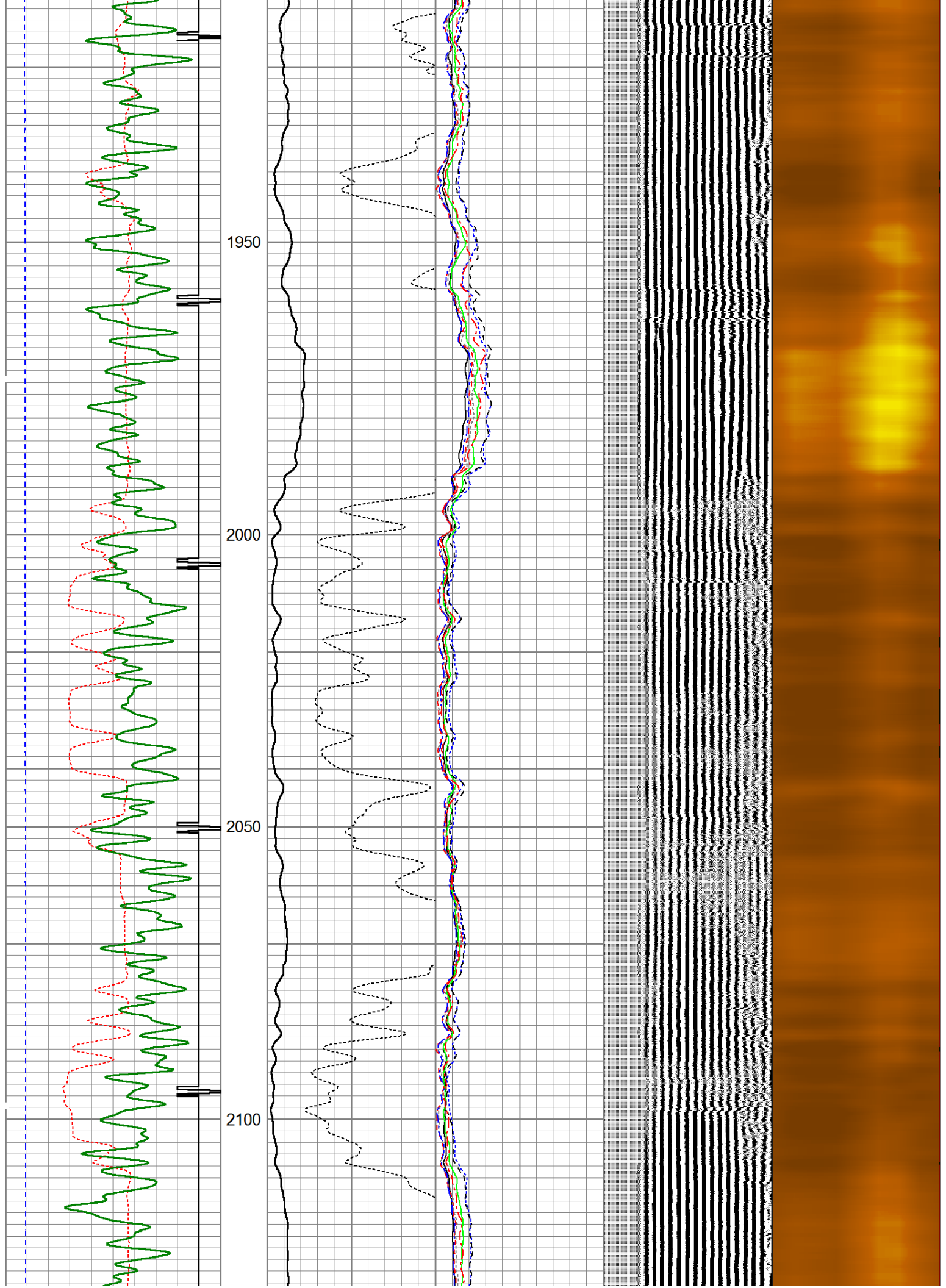


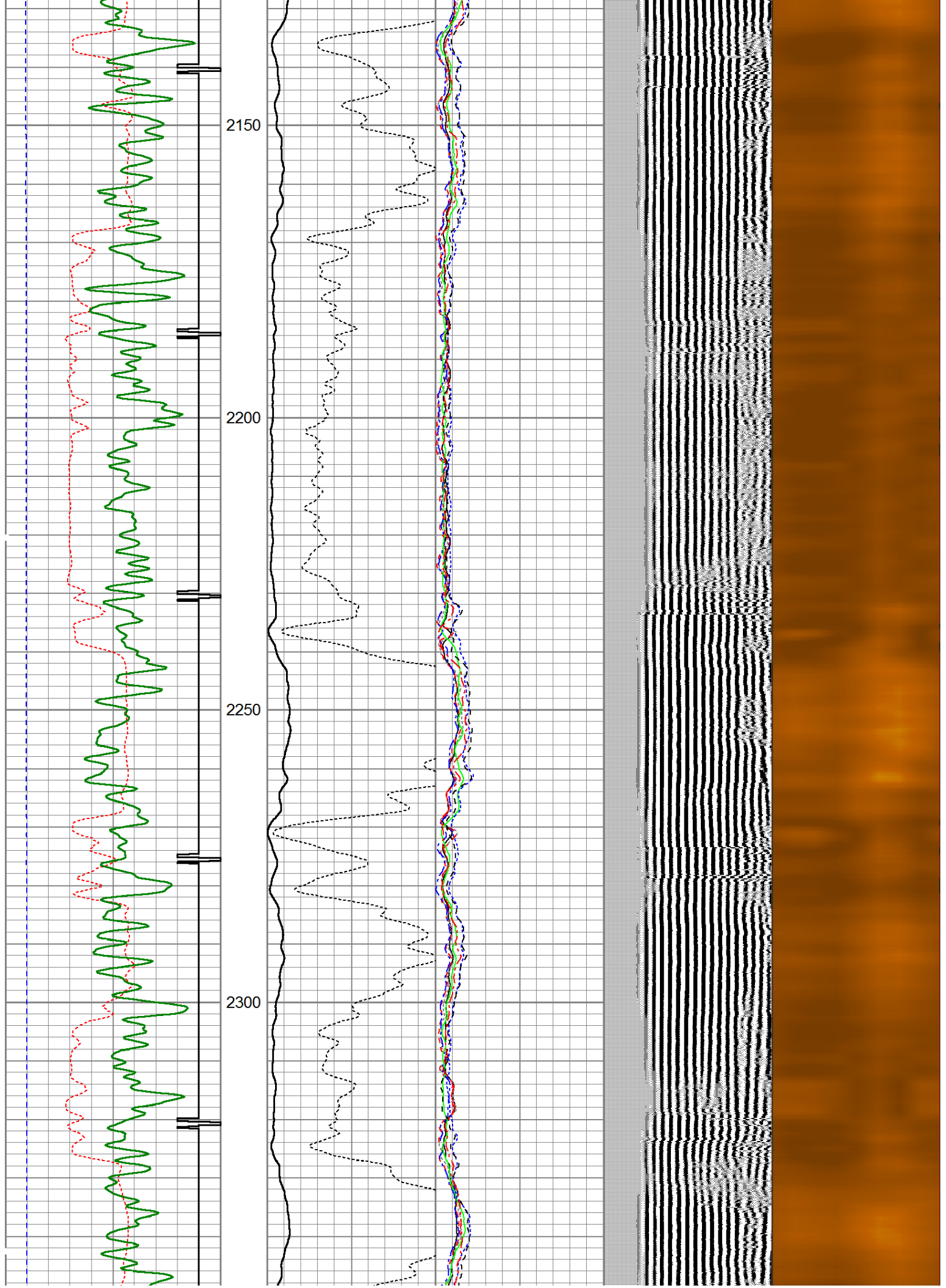


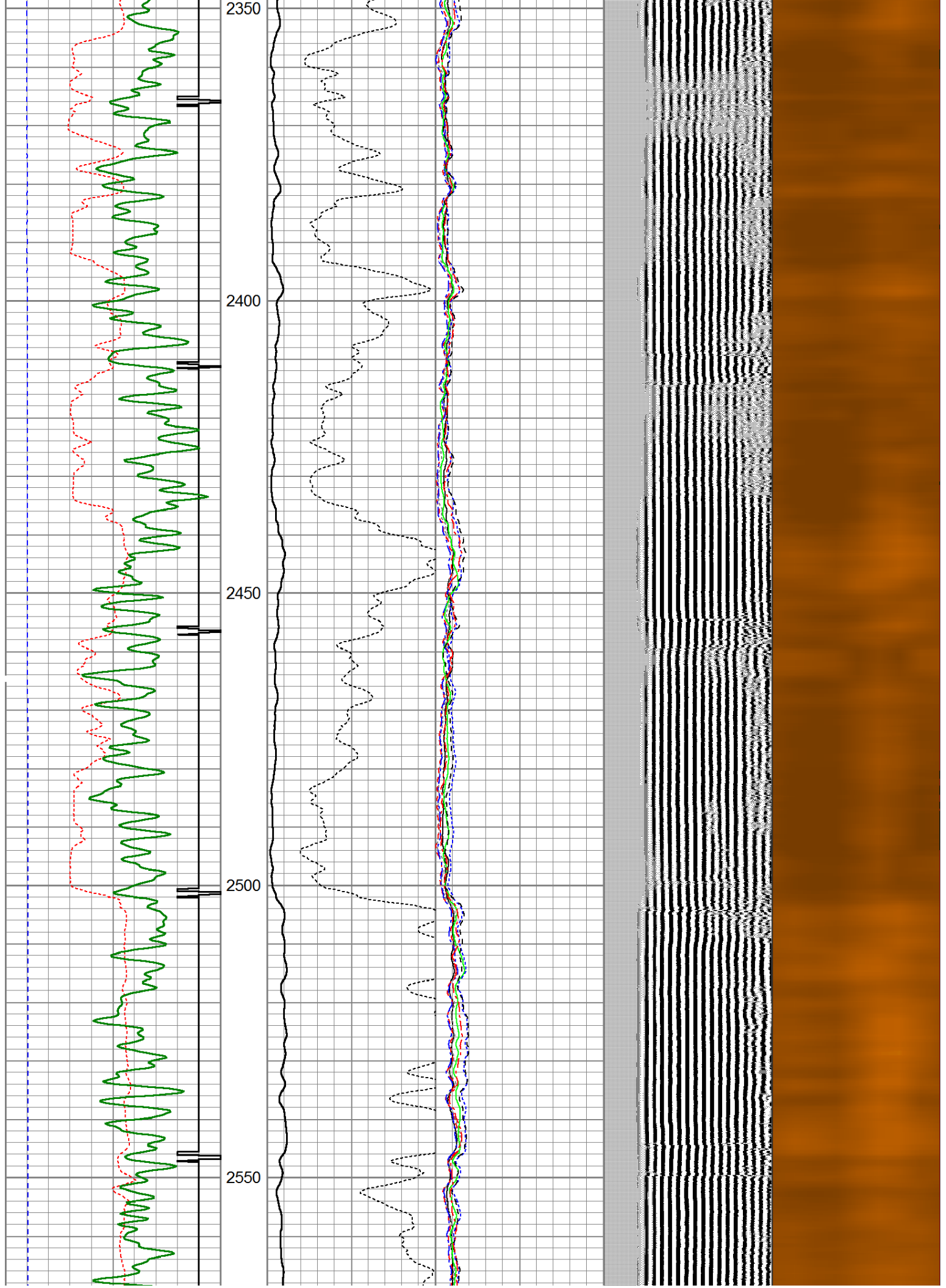


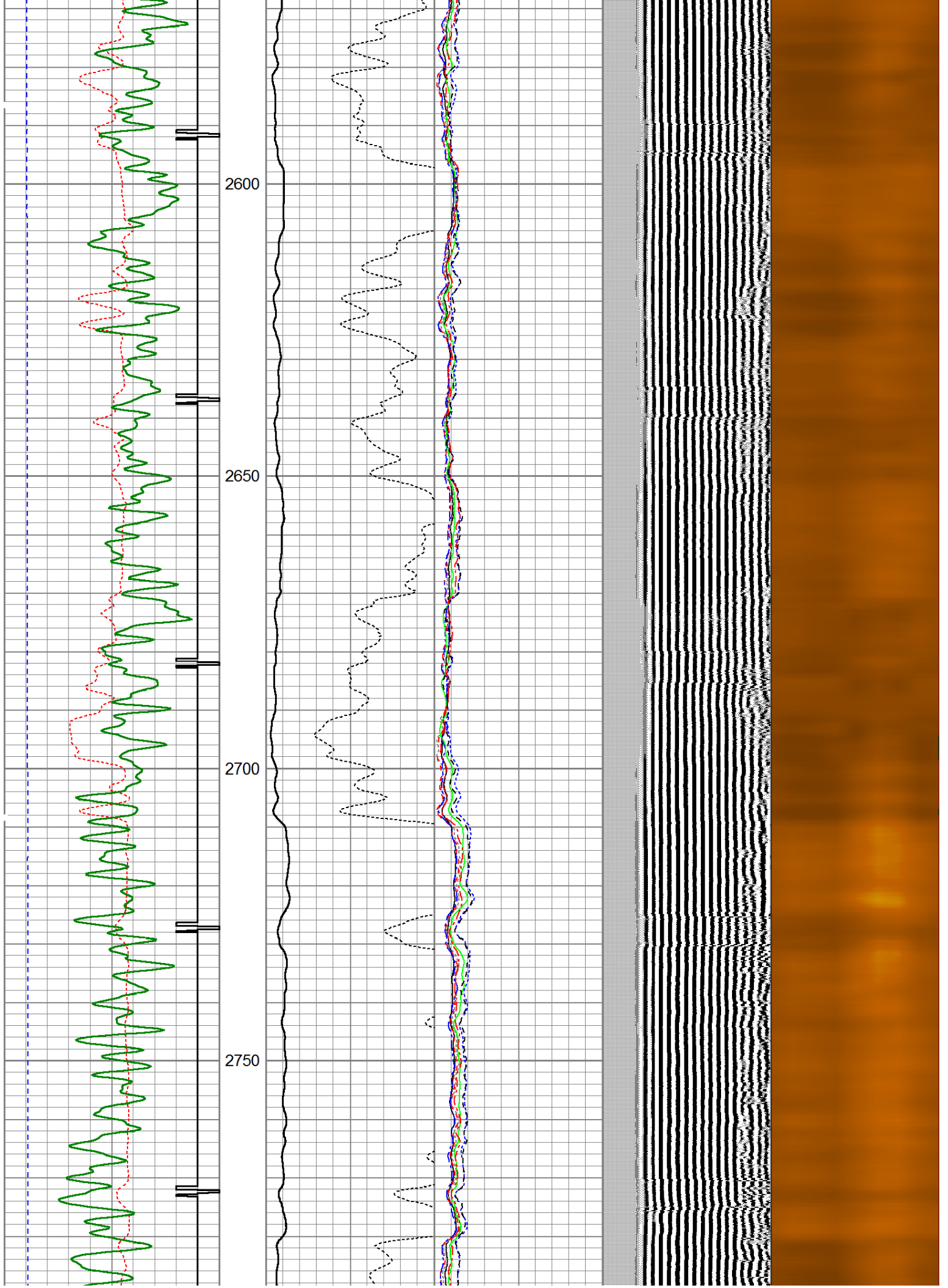


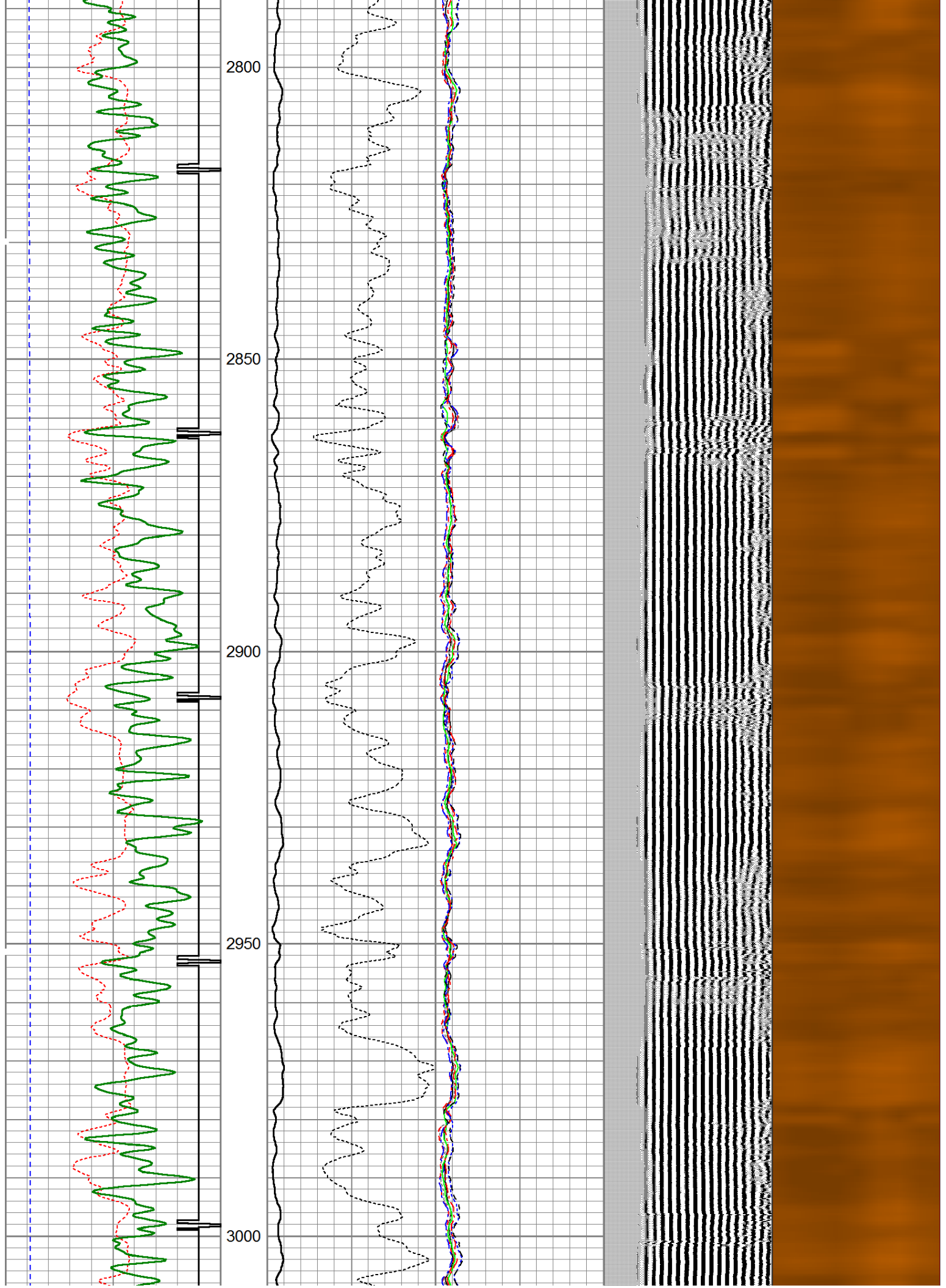


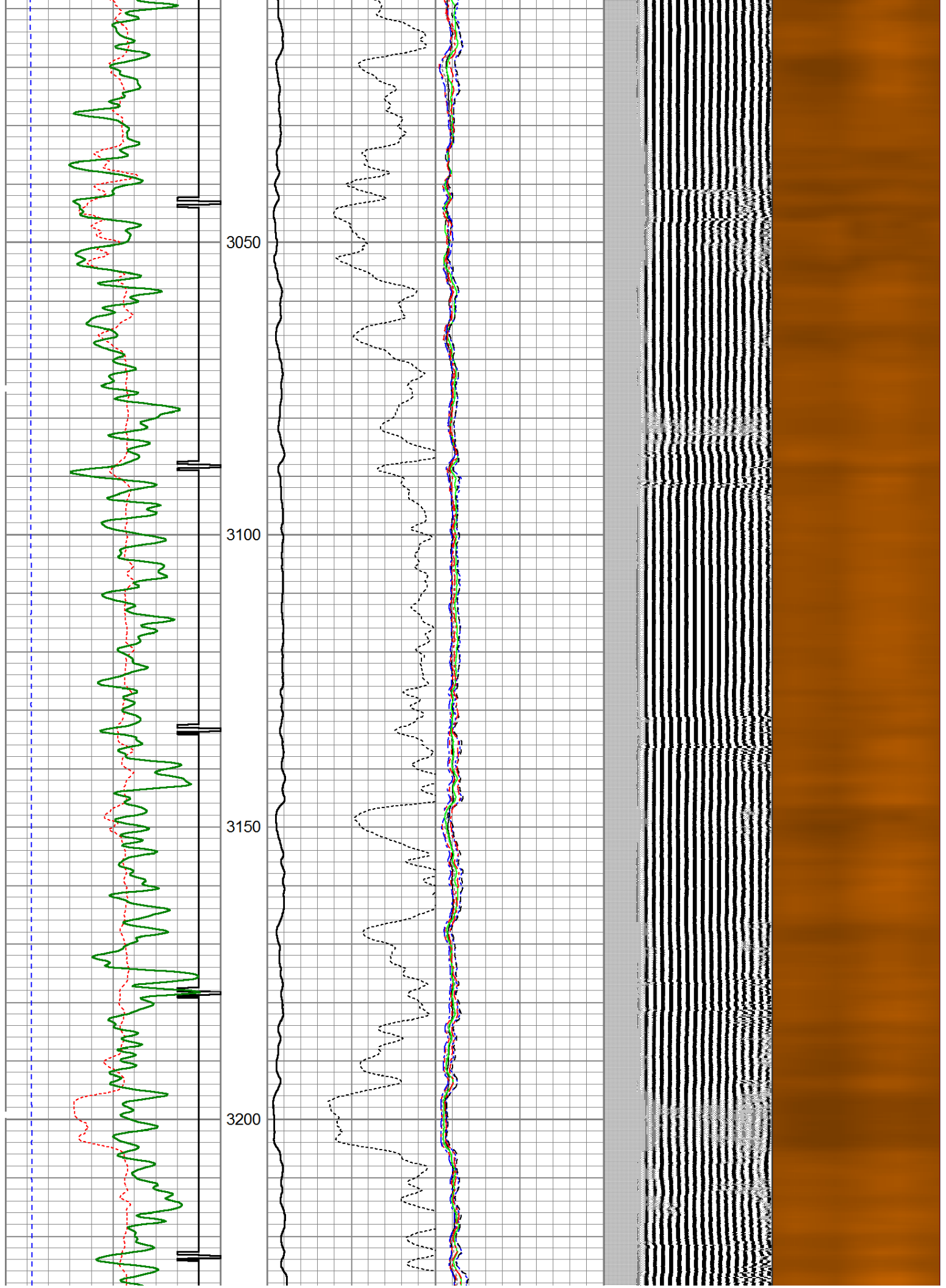


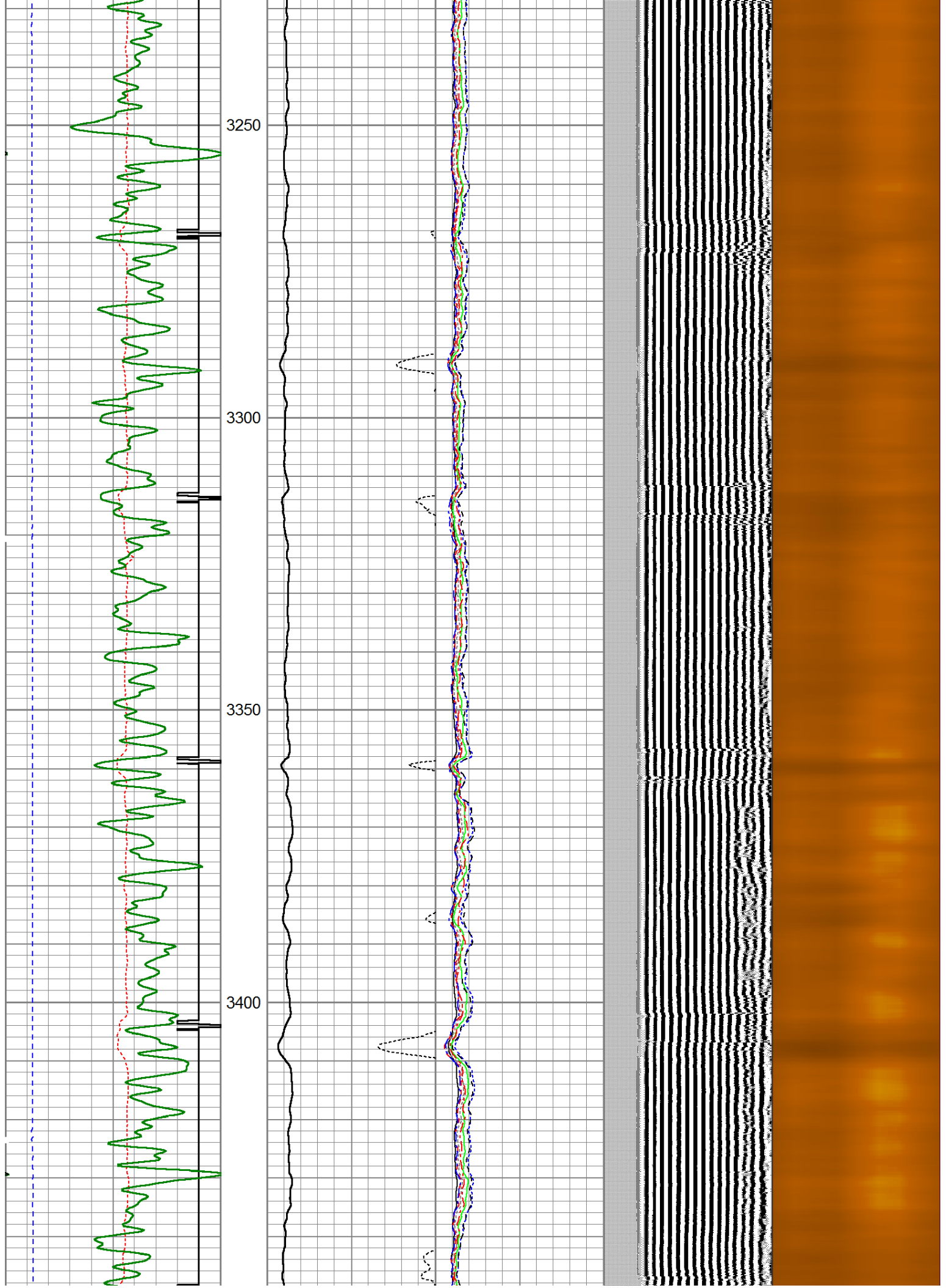


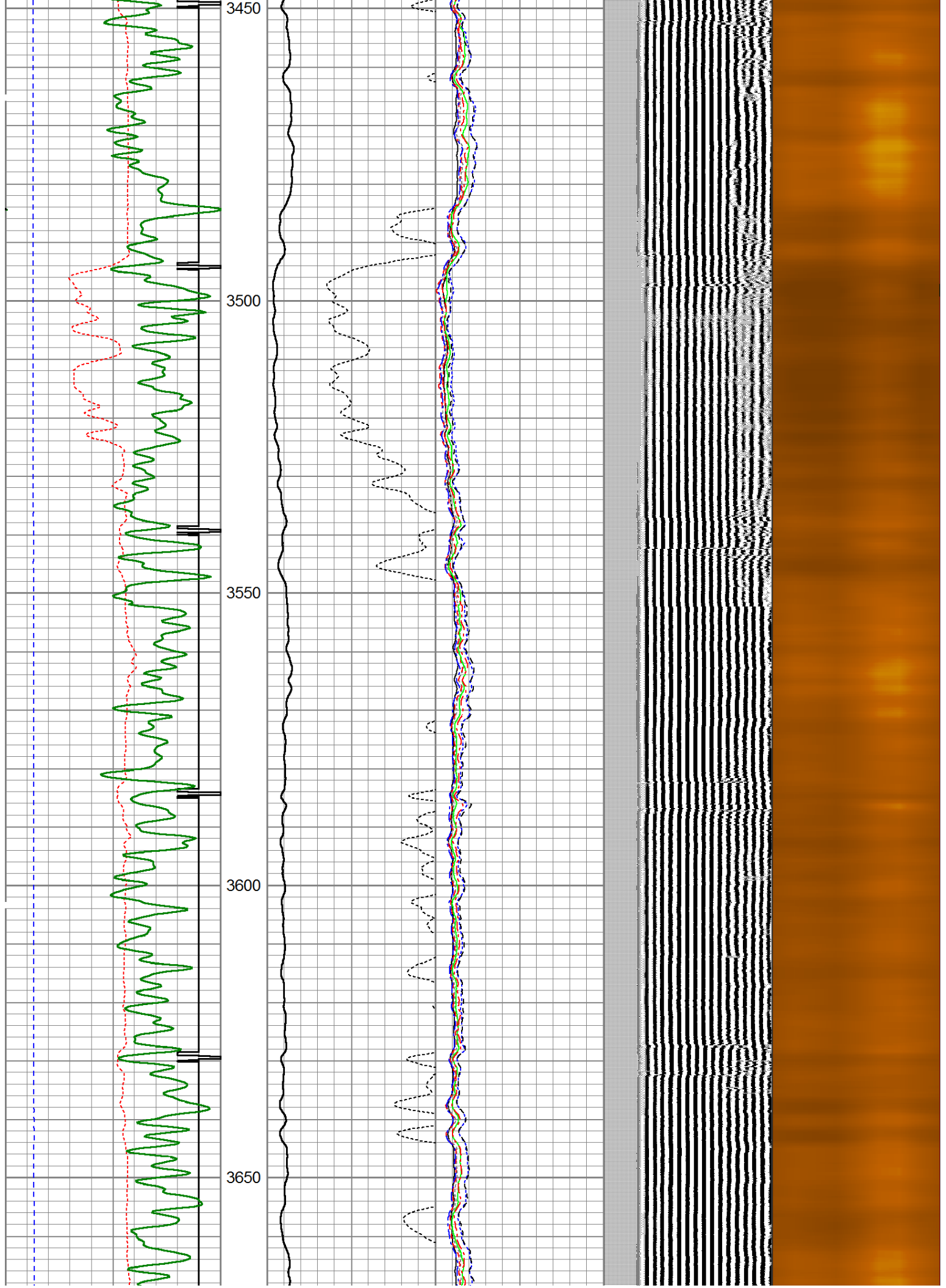


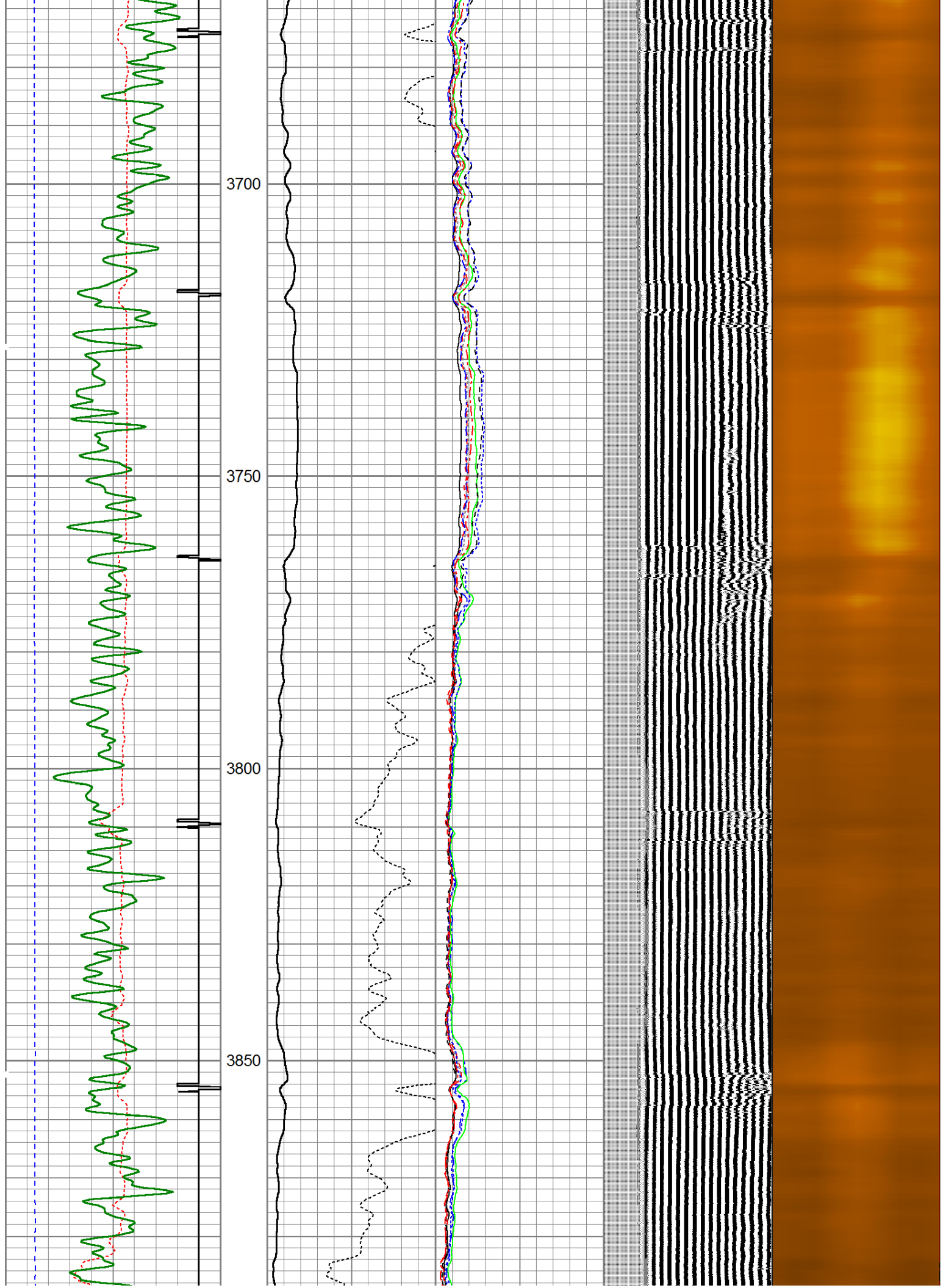


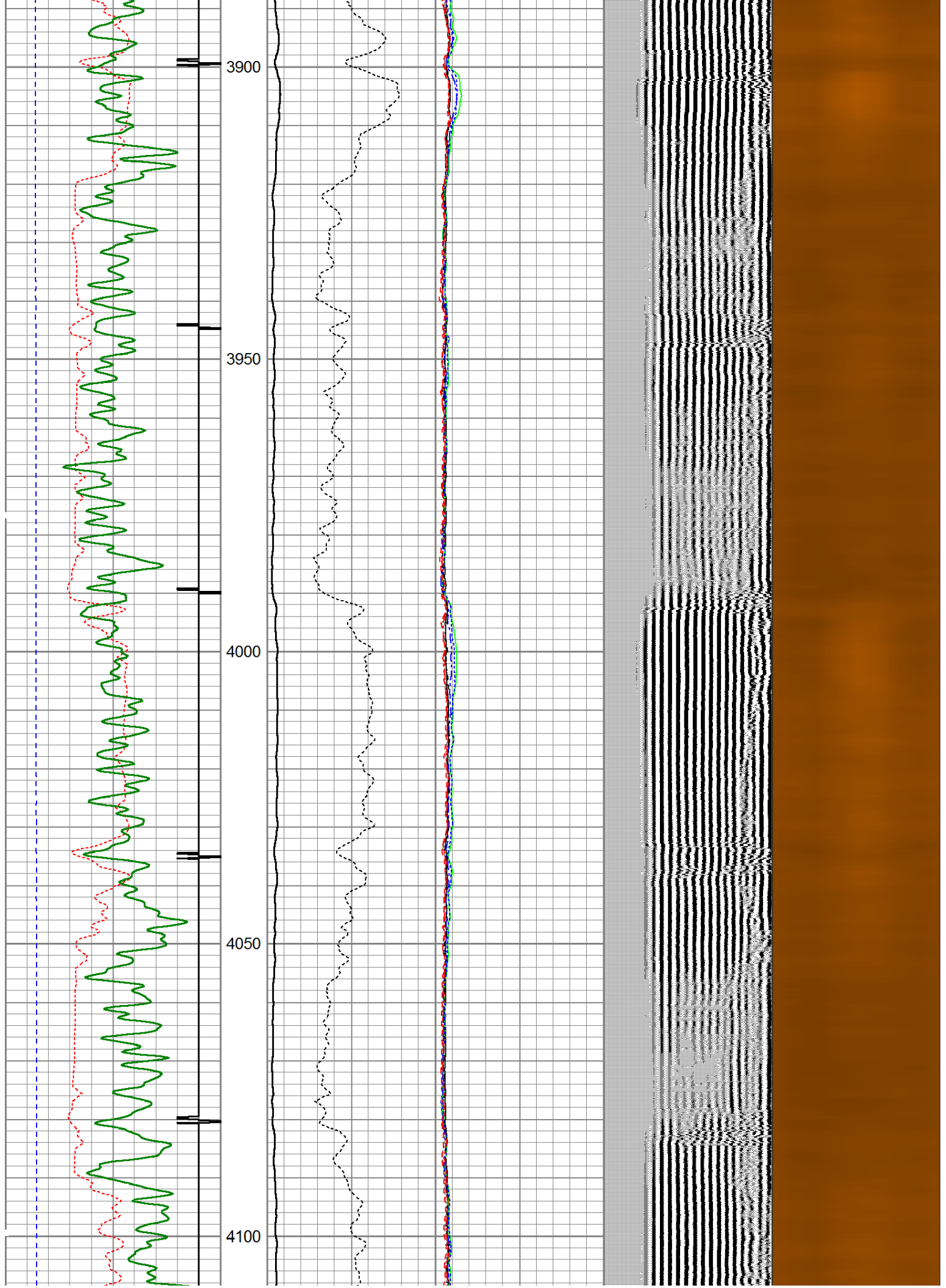


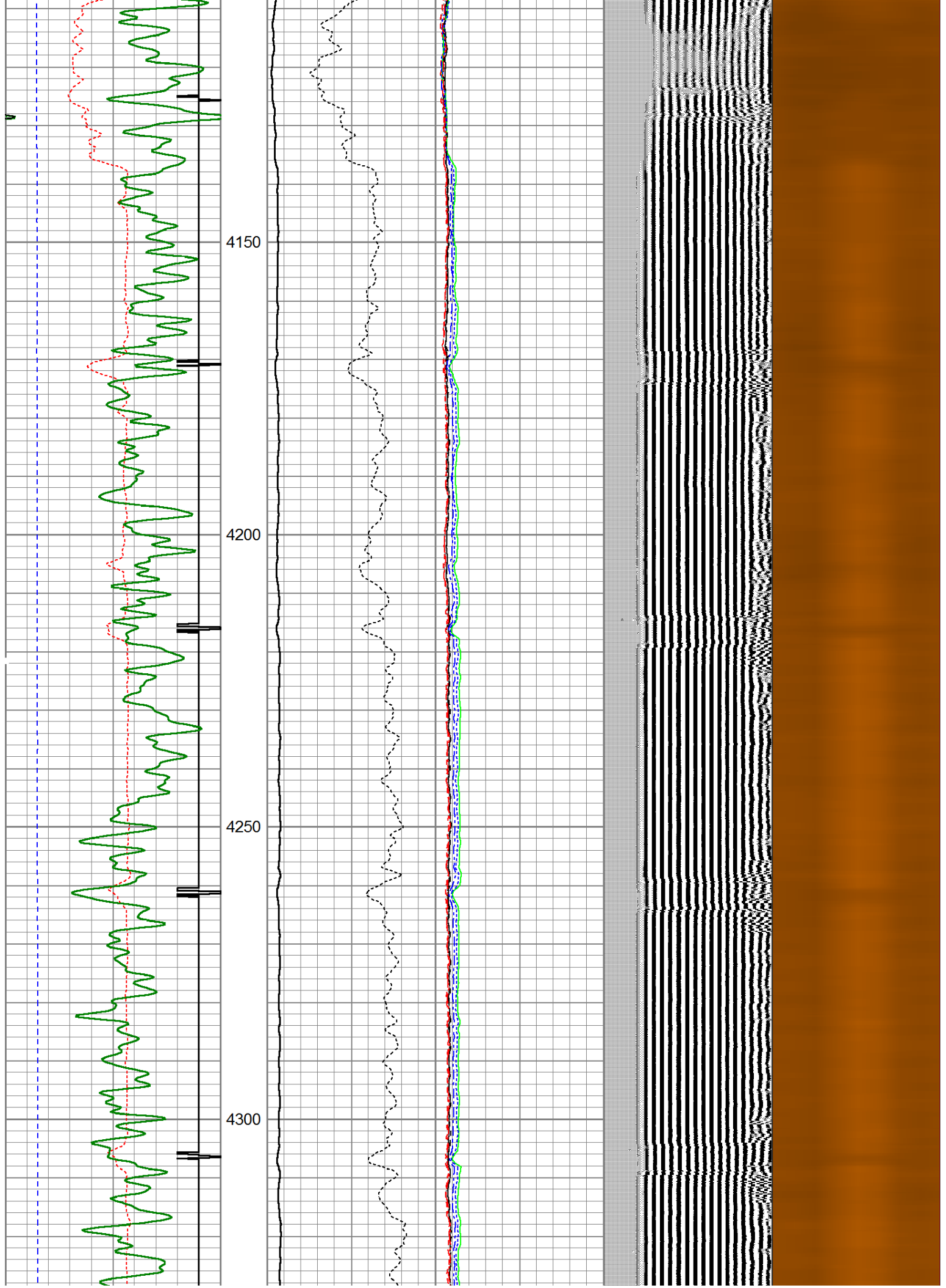


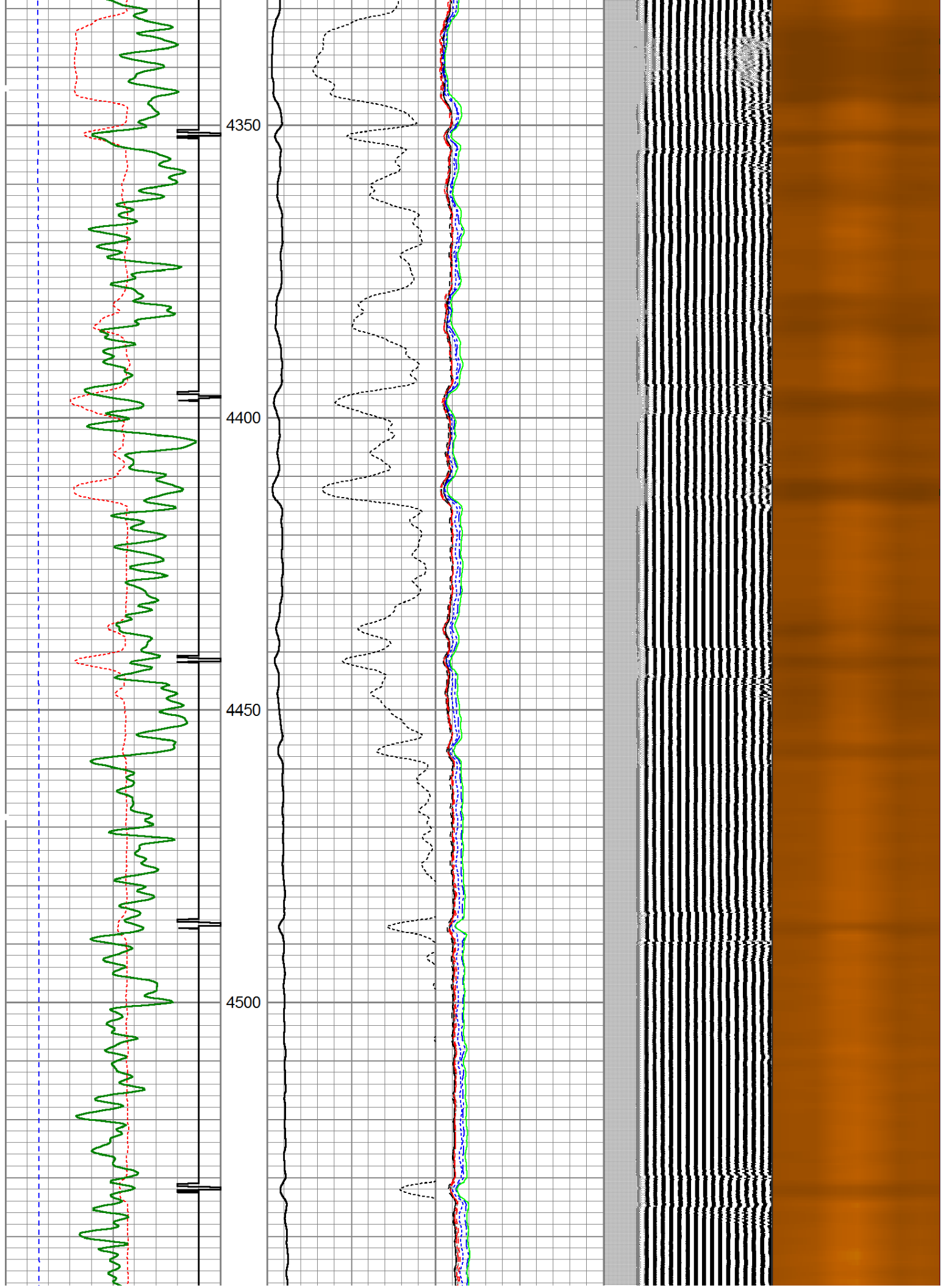


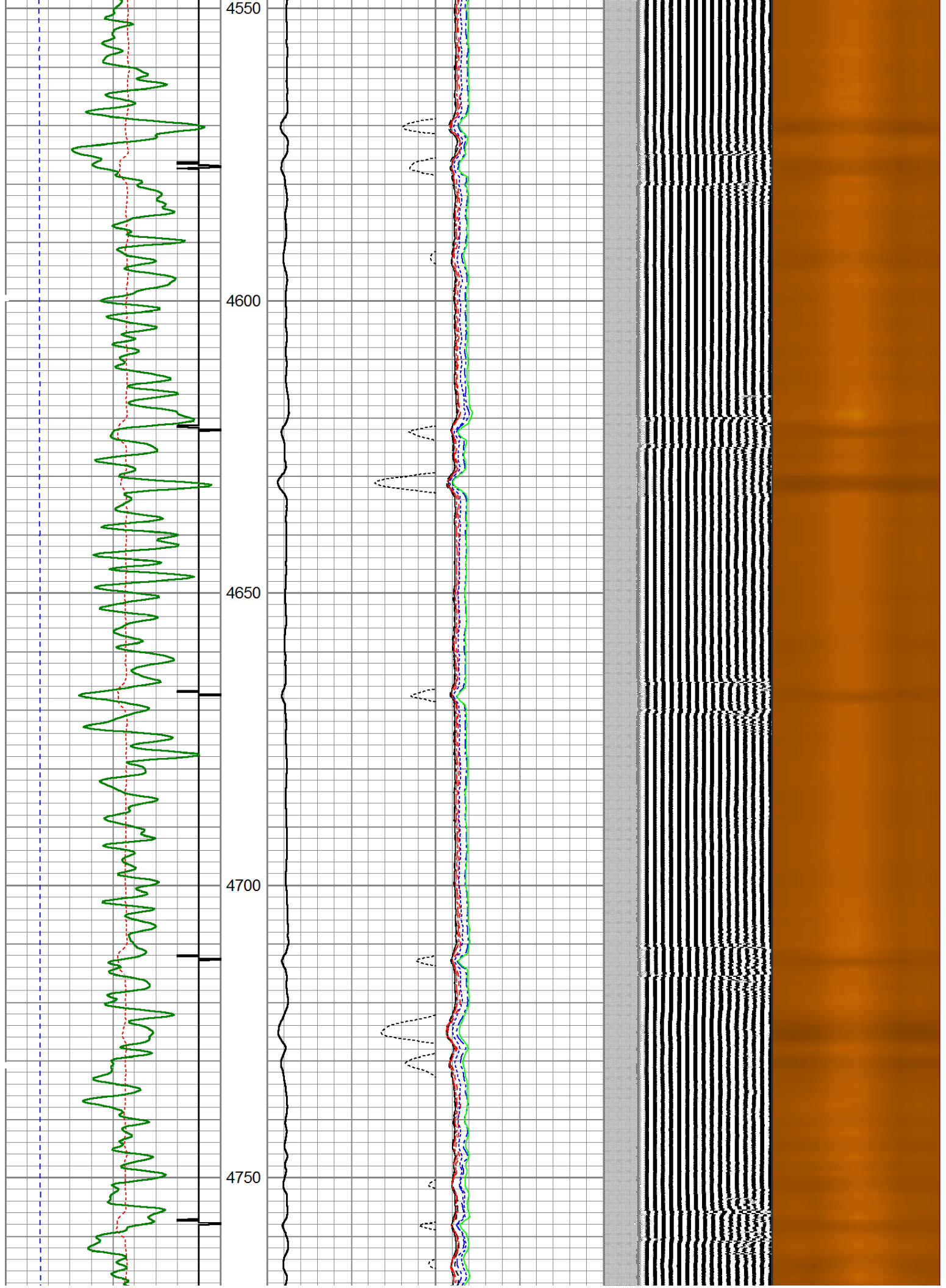


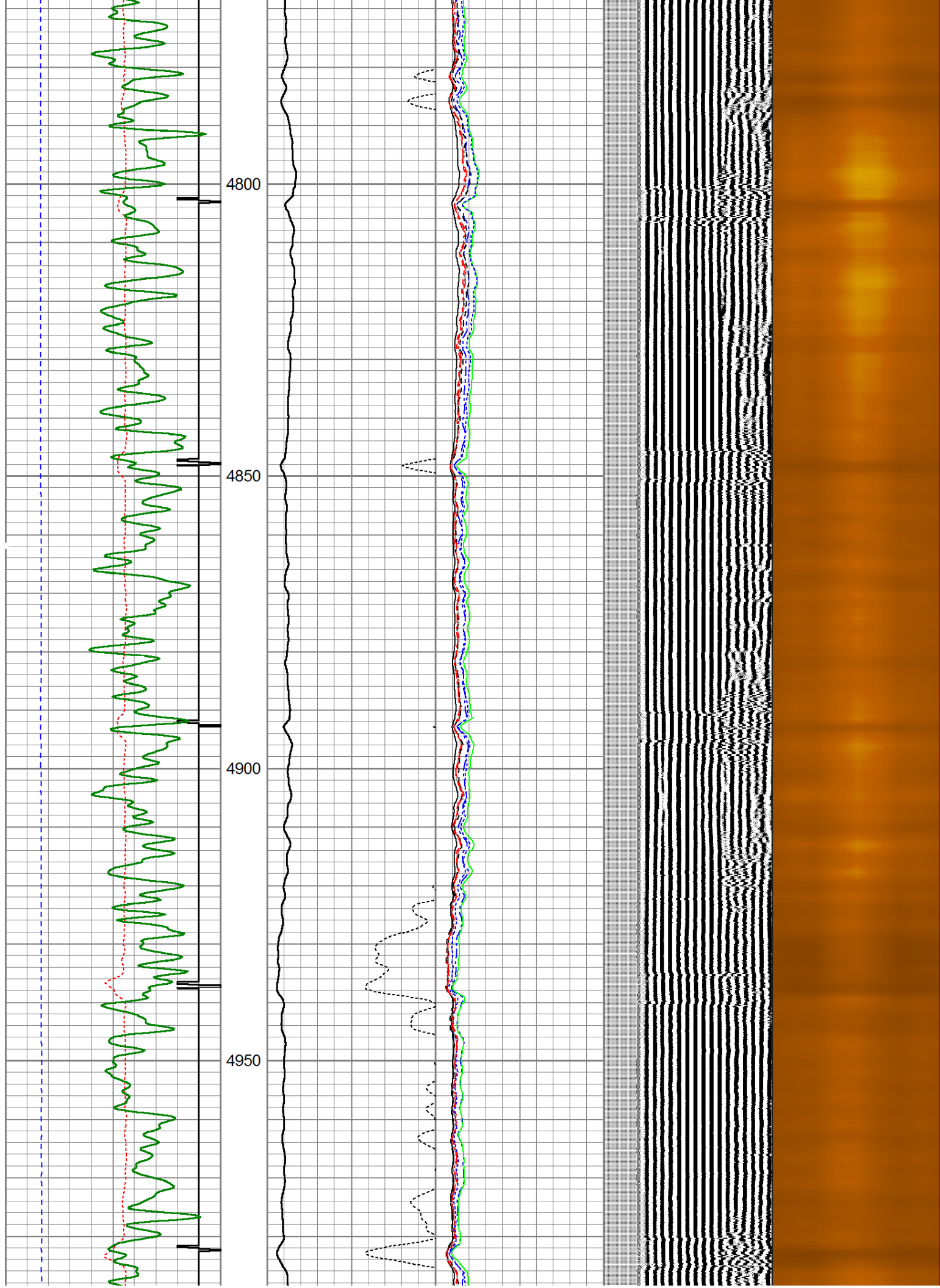


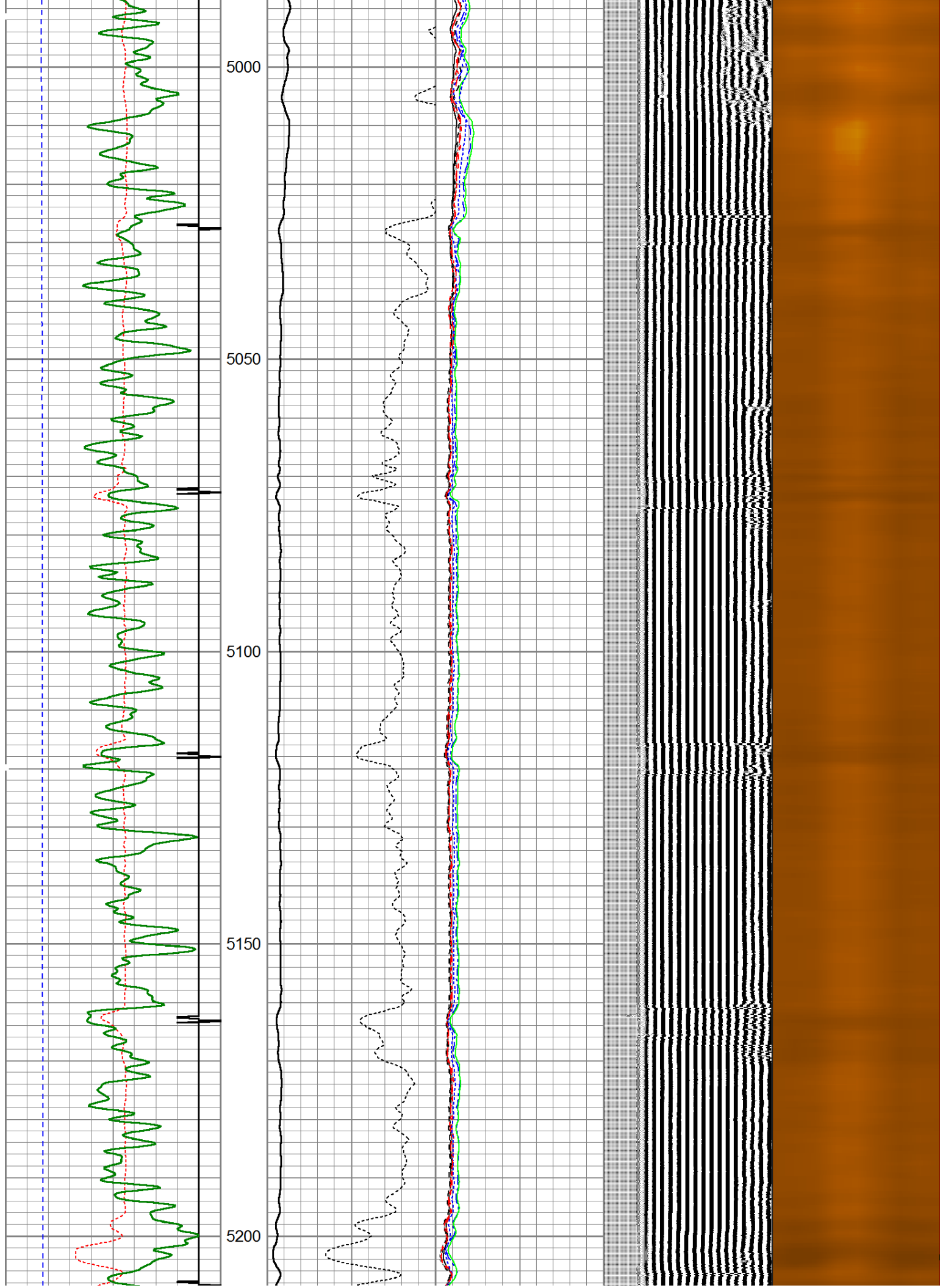


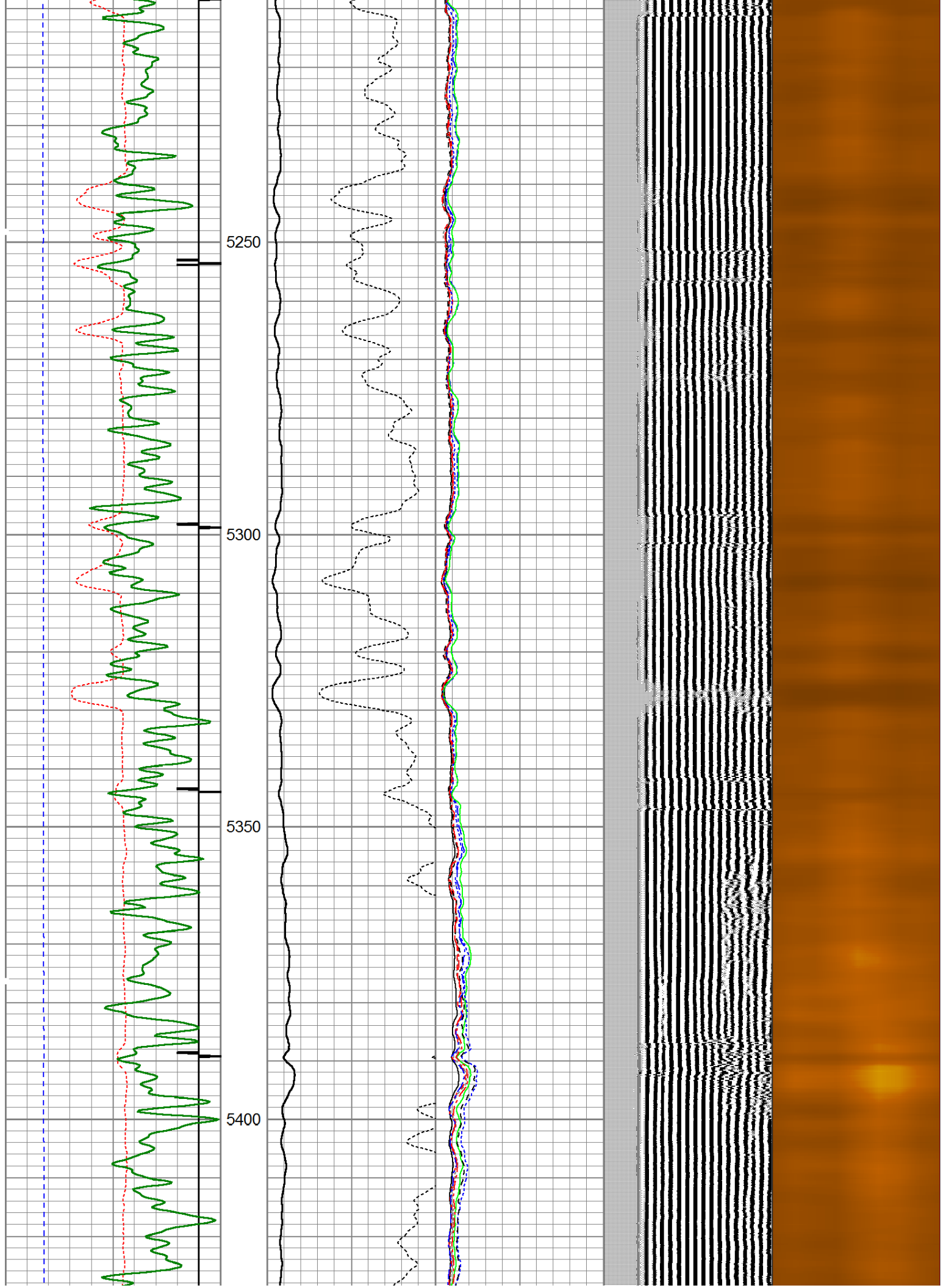


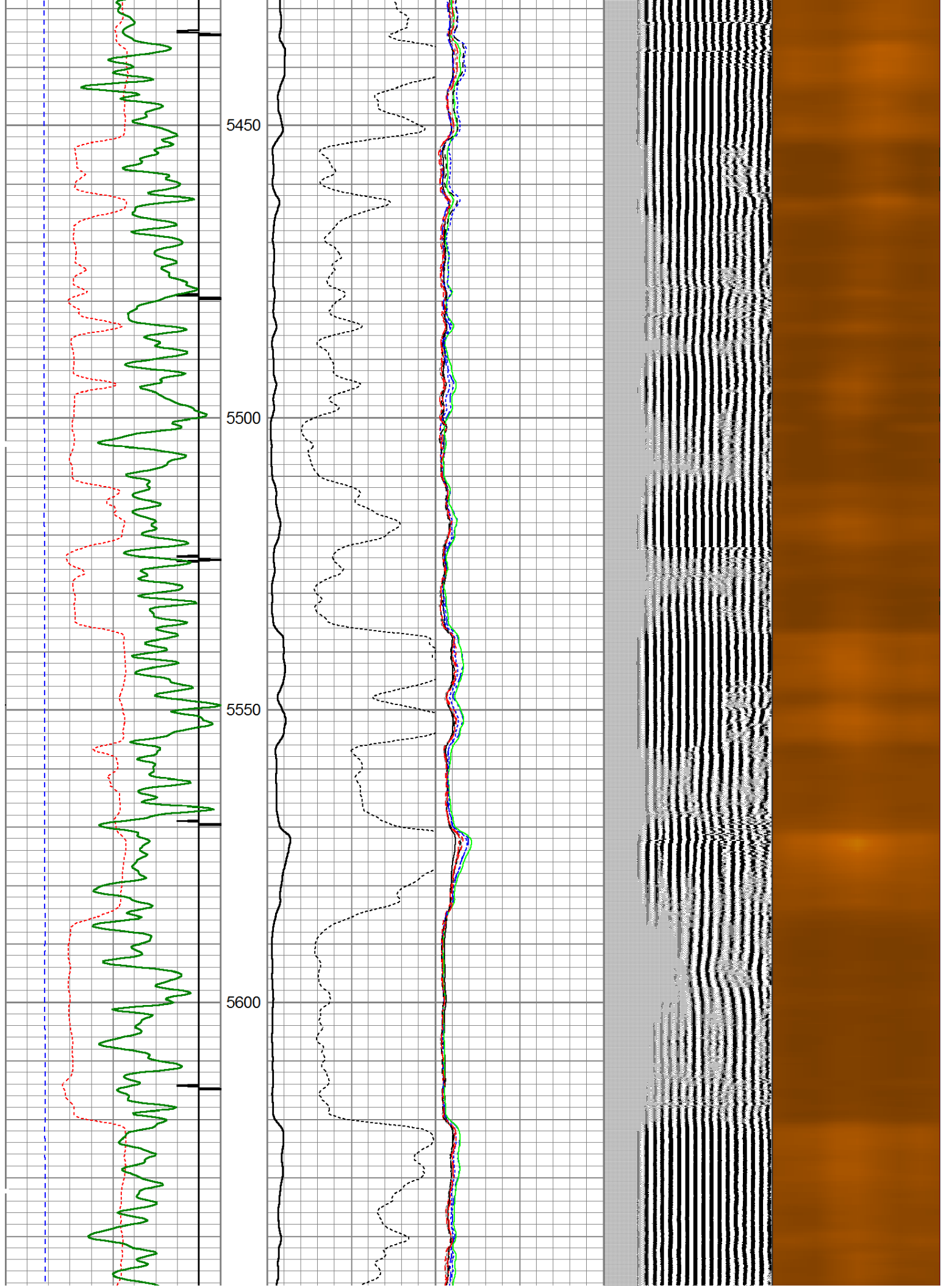


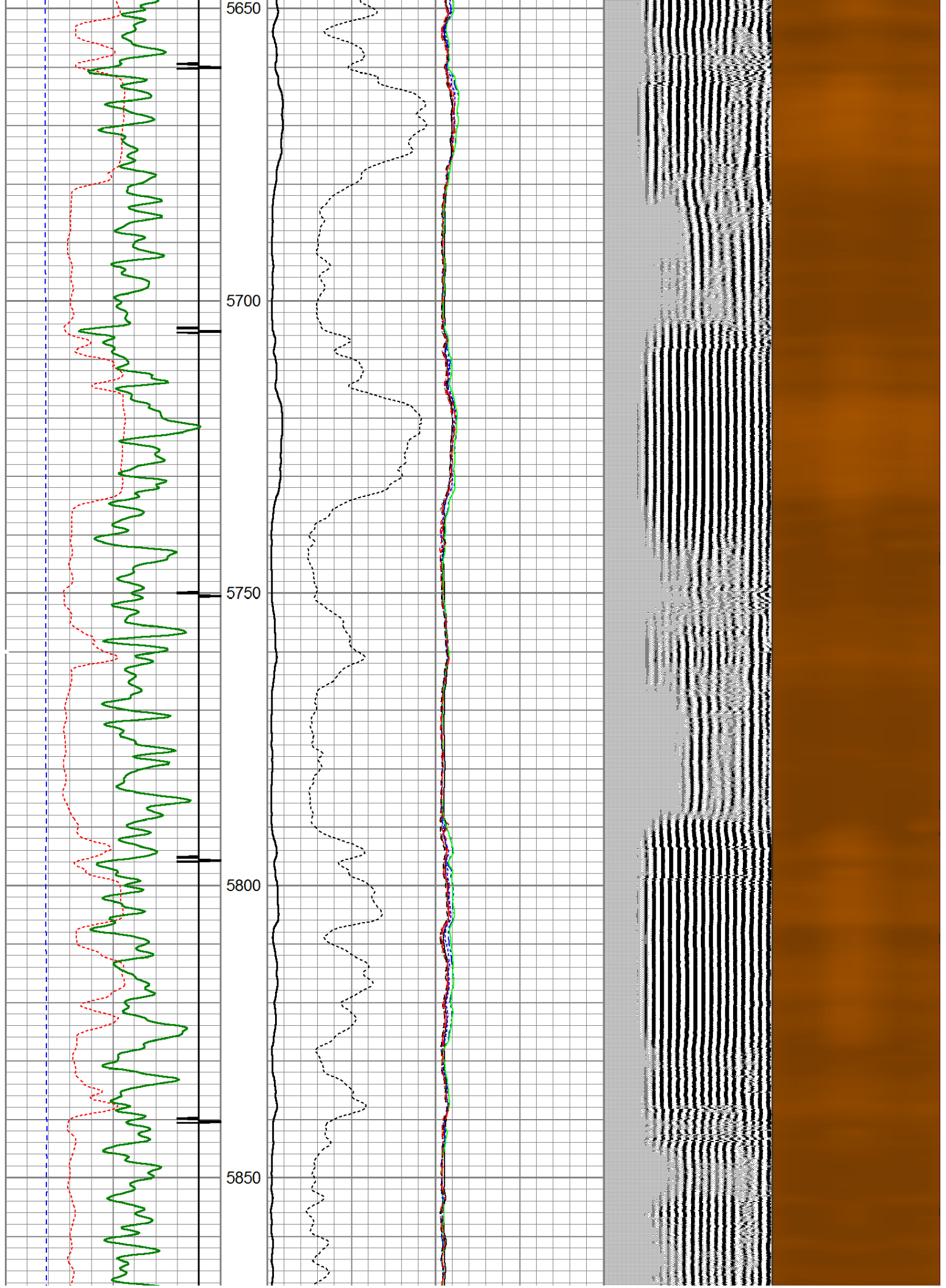


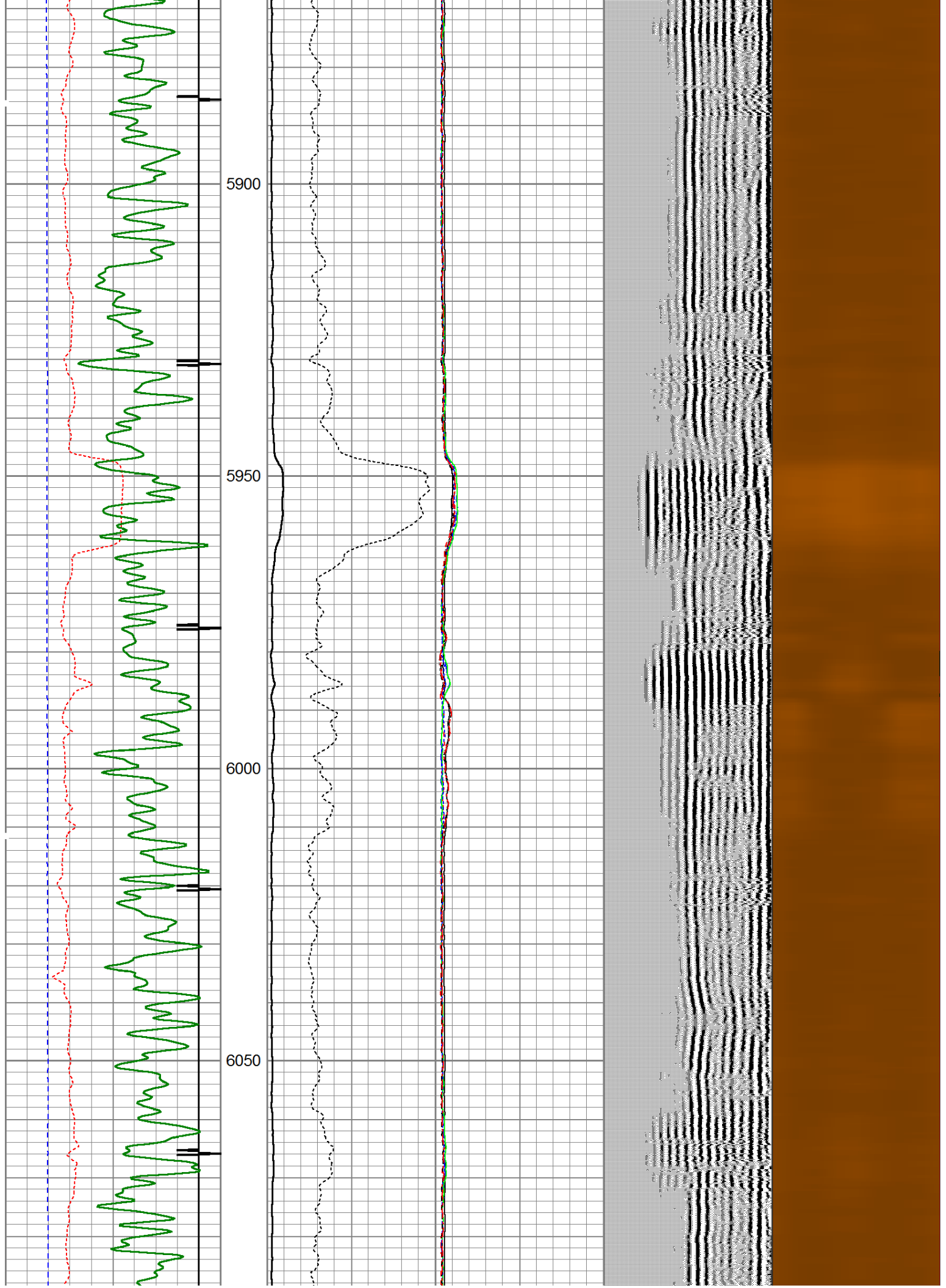


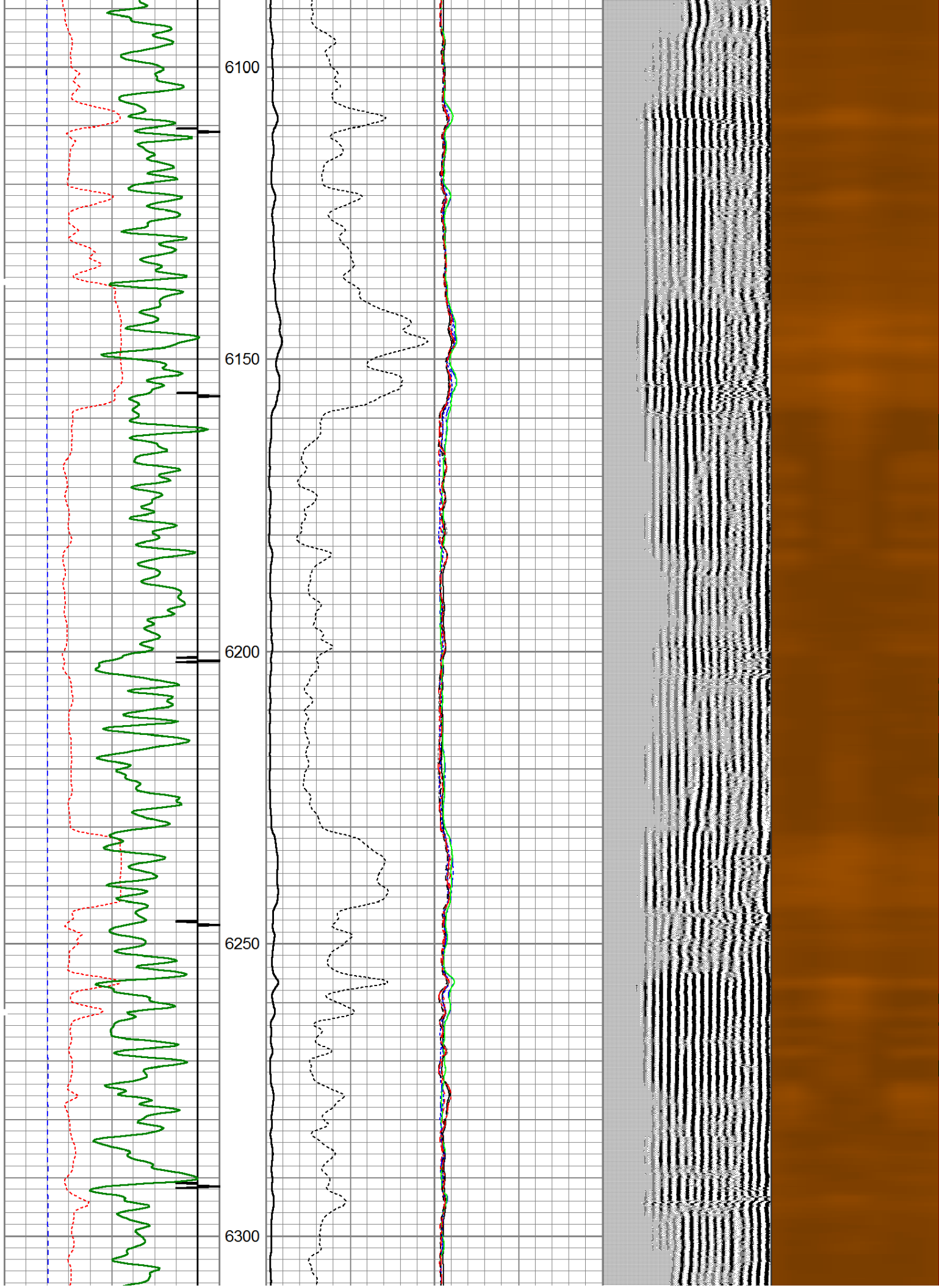


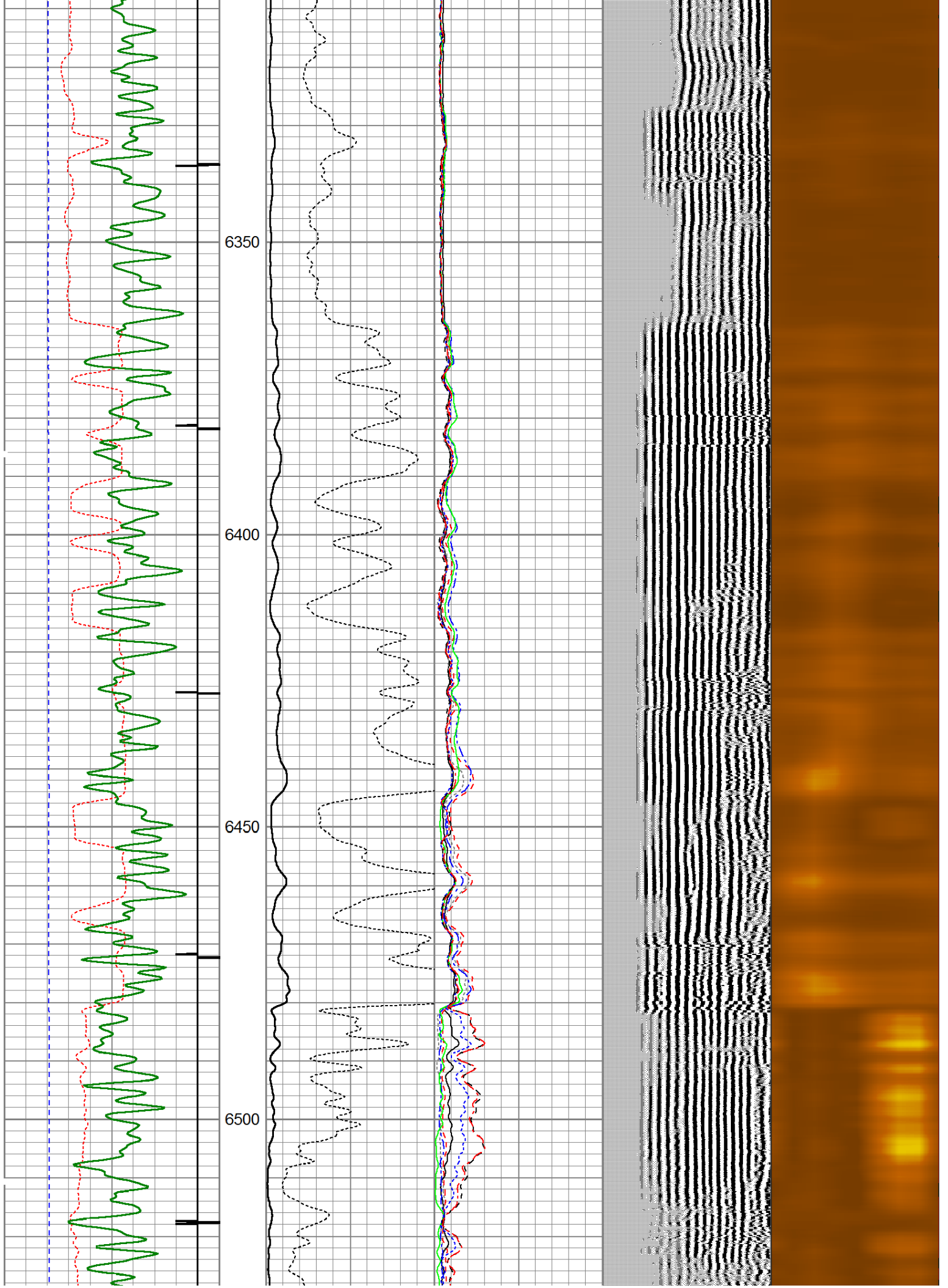


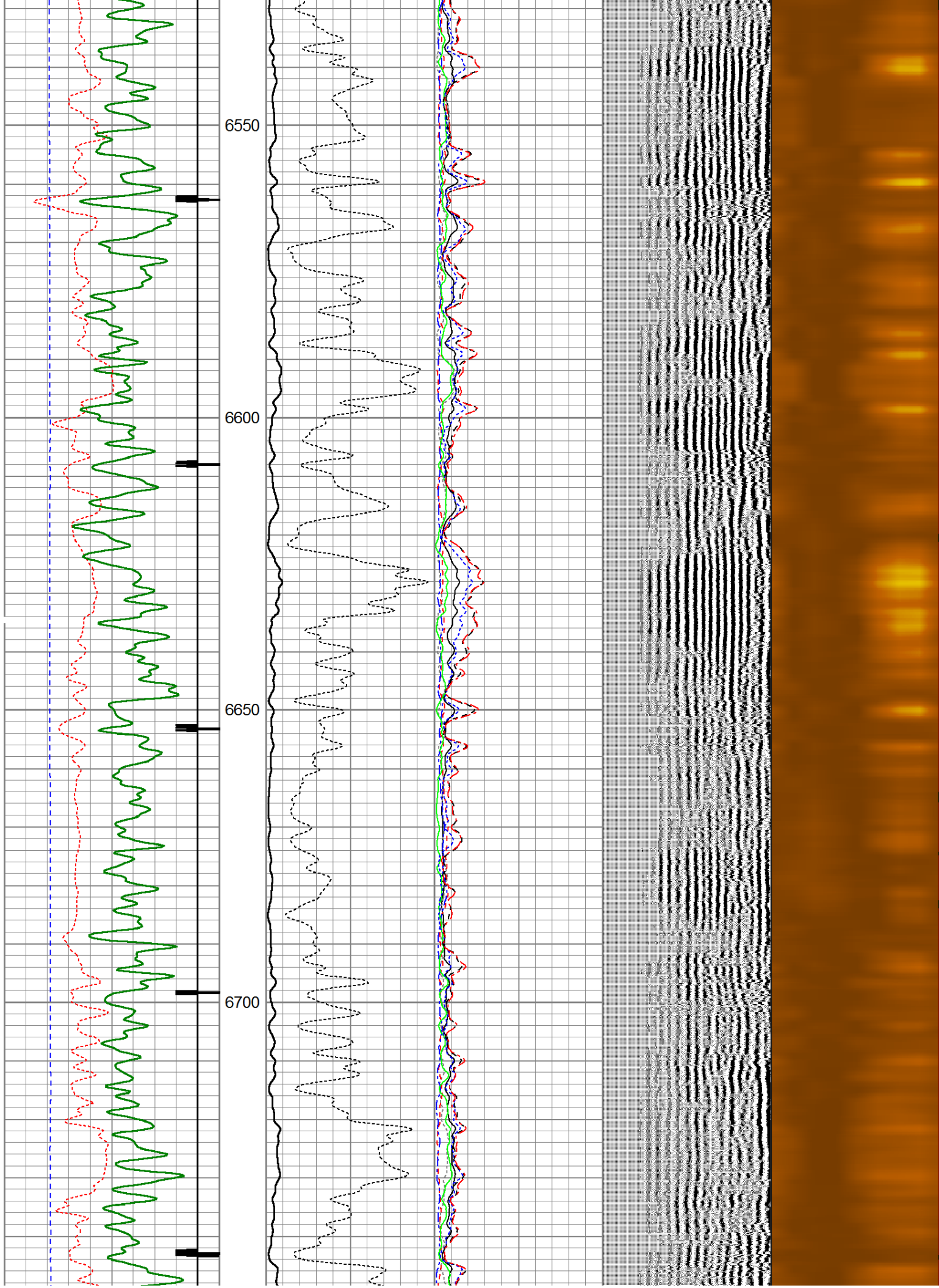


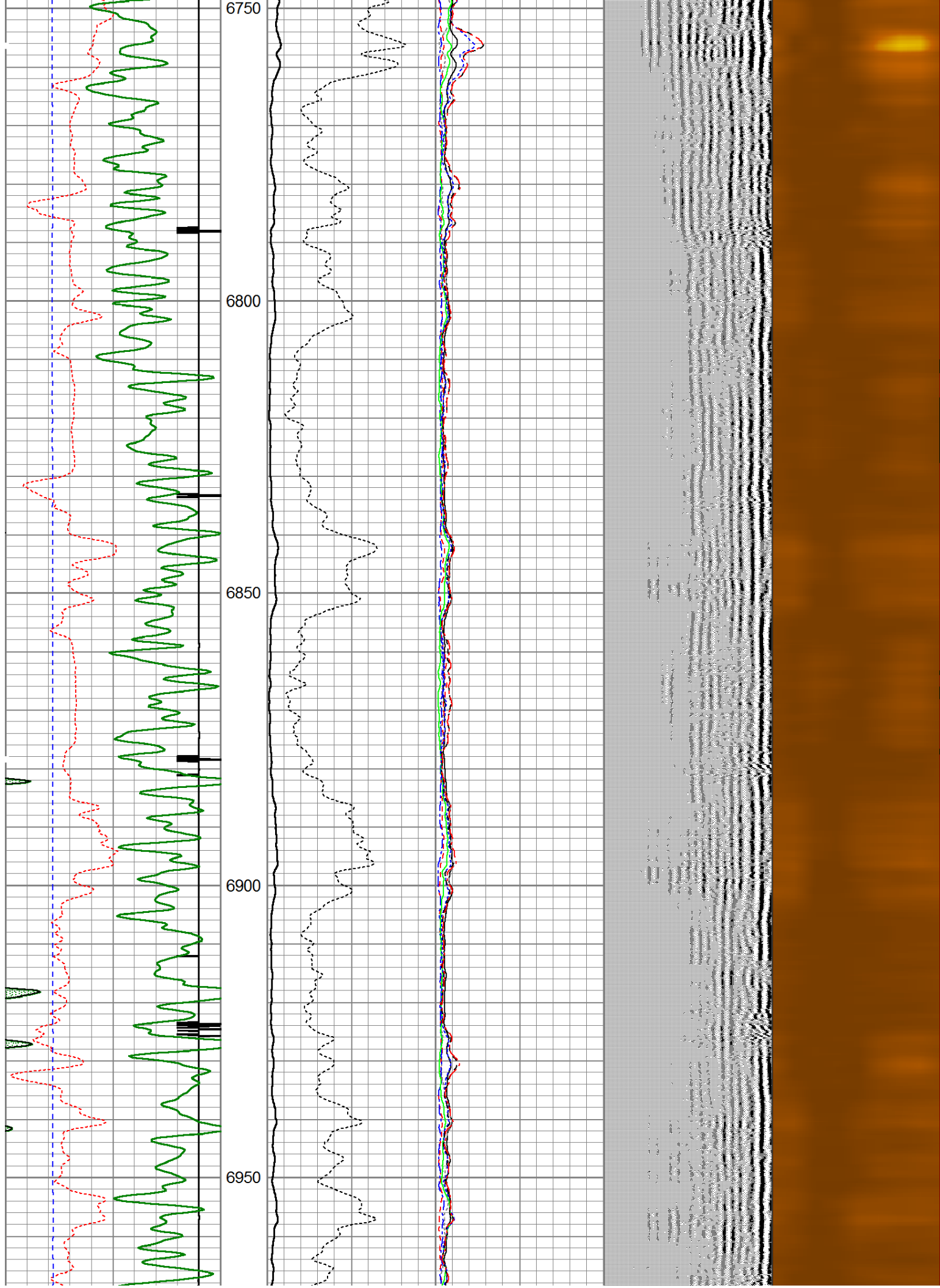


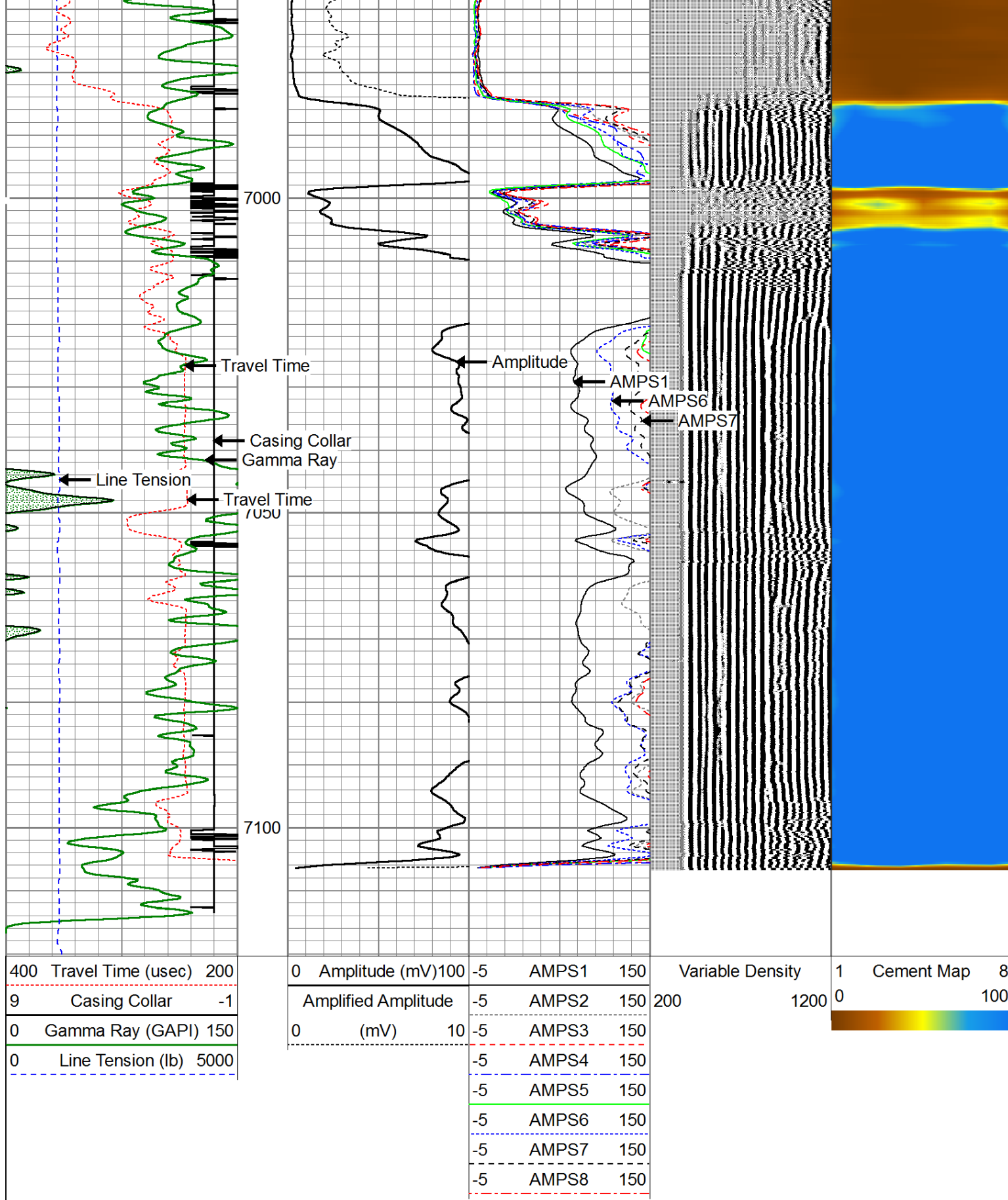







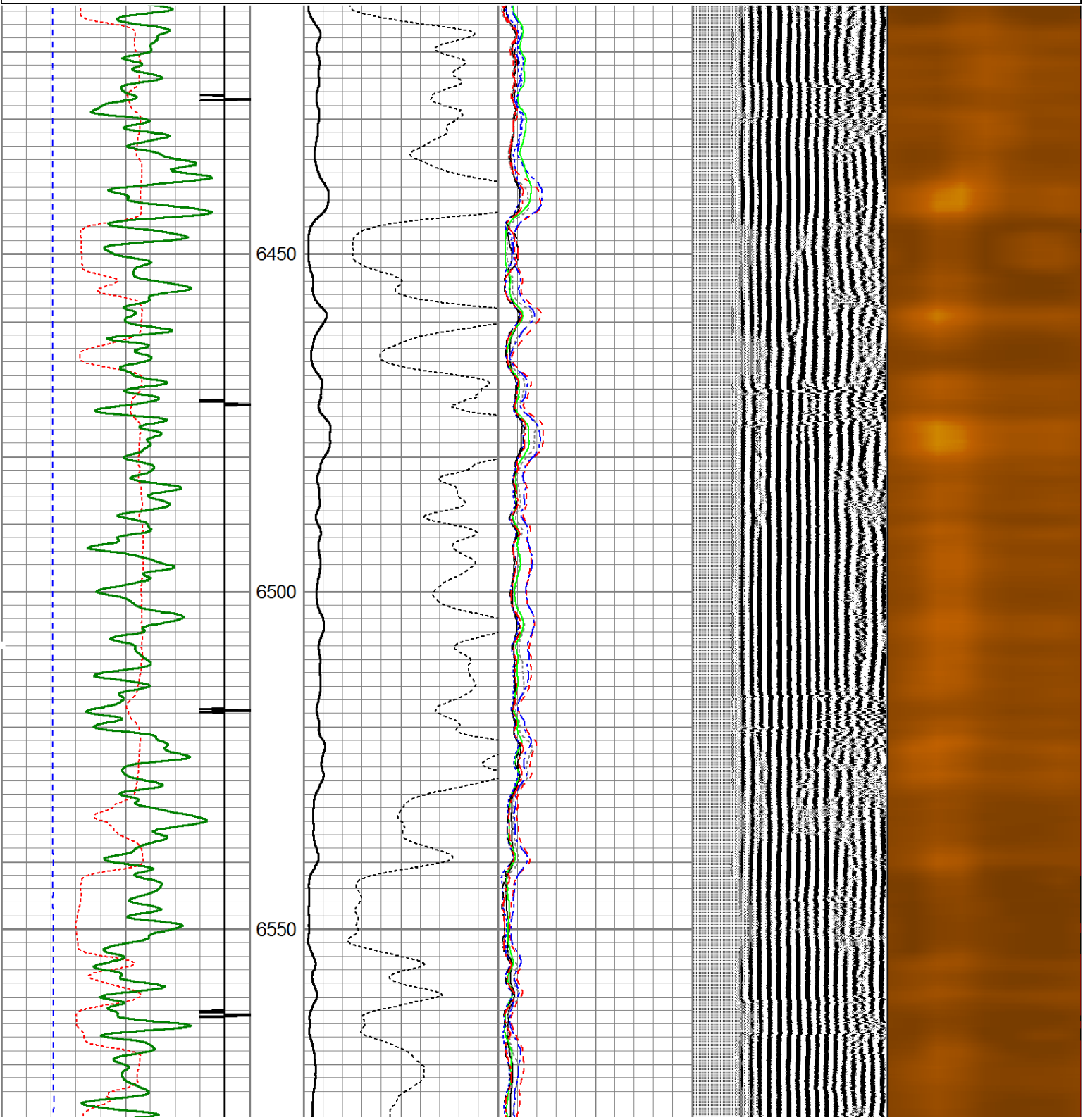


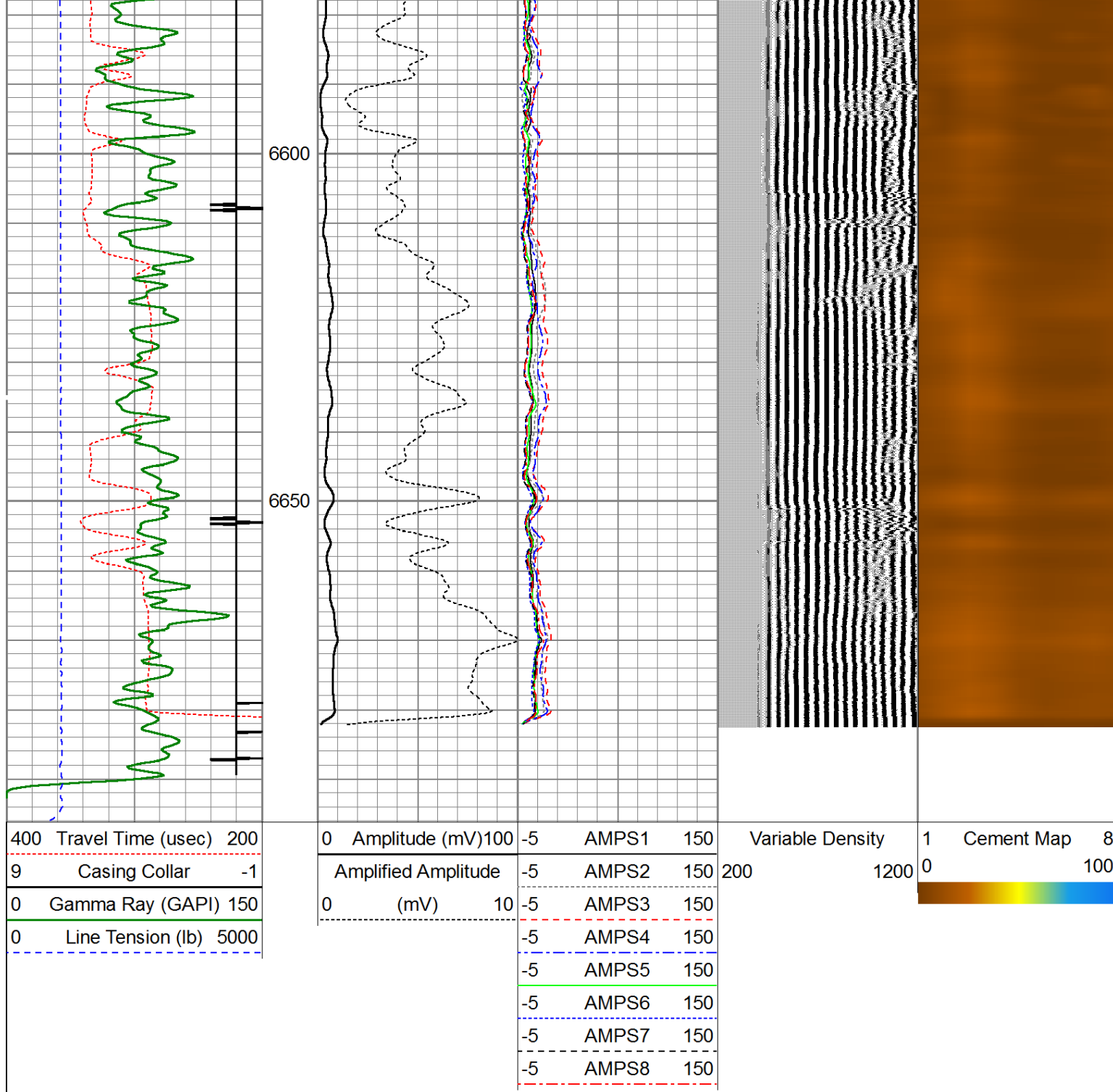




REPEAT PASS (0 PSI)

| | | | | | | | | | | | | | |
|-----|--------------------|------|---------------------|----------------|-----|----|-------|-----|---|------|---|------------|-----|
| 400 | Travel Time (usec) | 200 | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density | | 1 | Cement Map | 8 |
| 9 | Casing Collar | -1 | Amplified Amplitude | | | -5 | AMPS2 | 150 | 200 | 1200 | 0 | | 100 |
| 0 | Gamma Ray (GAPI) | 150 | 0 | (mV) | 10 | -5 | AMPS3 | 150 |  | | | | |
| 0 | Line Tension (lb) | 5000 | | | | -5 | AMPS4 | 150 | | | | | |
| | | | | | | -5 | AMPS5 | 150 | | | | | |
| | | | | | | -5 | AMPS6 | 150 | | | | | |
| | | | | | | -5 | AMPS7 | 150 | | | | | |
| | | | | | | -5 | AMPS8 | 150 | | | | | |





Calibration Report

Database File: bayswater_matrix_n-29hc_cbl.db
 Dataset Pathname: merge1
 Dataset Creation: Wed Mar 25 10:36:19 2015

Gamma Ray Calibration Report

Serial Number: FW1408-35
 Tool Model: Probe275
 Performed: Fri Mar 20 07:45:03 2015

Calibrator Value: 1022.0 GAPI

Background Reading: 109.6 cps
 Calibrator Reading: 1299.5 cps

Sensitivity: 0.8589 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1408-26
 Tool Model: RBTC3
 Calibration Casing Diameter: 7.000 in
 Calibration Depth: 267.367 ft

Master Calibration, performed Tue Mar 24 12:59:30 2015:

| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|---------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.010 | 0.750 | 2.000 | 62.165 | 81.276 | 1.183 |
| CAL | 0.014 | 1.005 | | | | |
| 5' | 0.013 | 0.934 | 2.000 | 62.165 | 65.313 | 1.184 |
| SUM | | | | | | |
| S1 | 0.012 | 0.772 | 0.000 | 100.000 | 120.000 | -1.558 |
| S2 | 0.012 | 0.728 | 0.000 | 100.000 | 139.688 | -1.656 |
| S3 | 0.016 | 0.722 | 0.000 | 100.000 | 141.671 | -2.267 |
| S4 | 0.017 | 0.743 | 0.000 | 100.000 | 137.910 | -2.412 |
| S5 | 0.015 | 0.783 | 0.000 | 100.000 | 130.241 | -1.916 |
| S6 | 0.011 | 0.819 | 0.000 | 100.000 | 123.793 | -1.375 |
| S7 | 0.007 | 0.799 | 0.000 | 100.000 | 126.355 | -0.912 |
| S8 | 0.007 | 0.764 | 0.000 | 100.000 | 132.023 | -0.925 |

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.014 | 1.005 | 1.000 | 0.000 |

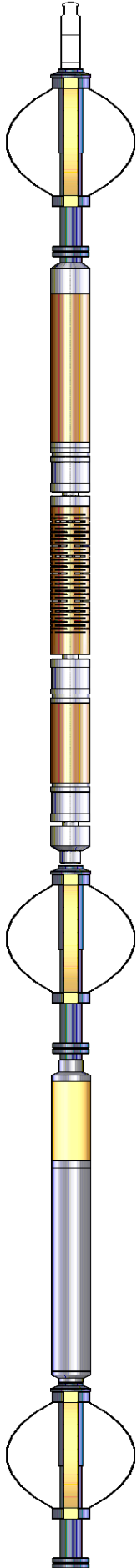
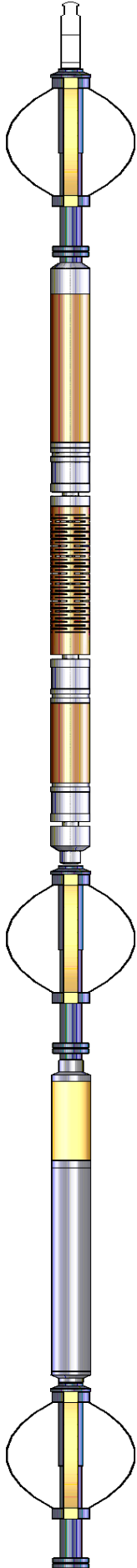
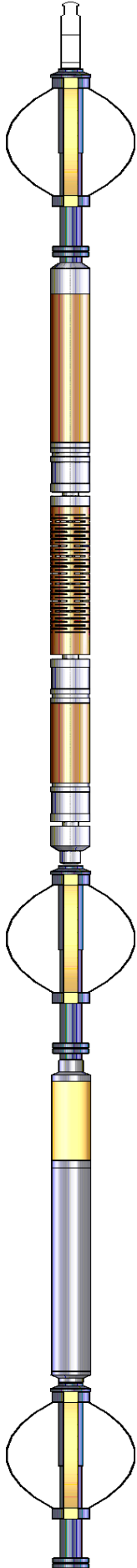
Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

| | 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 |

Temperature Calibration Report

Serial Number: FW1408-26
 Tool Model: RBTC3
 Performed: Sun Jun 13 13:33:21 1993

| | Reference | Reading |
|-----------------|-----------|----------|
| Low Reference: | 0.00 degF | 0.00 cps |
| High Reference: | 1.00 degF | 1.00 cps |
| Gain: | 1.00 | |
| Offset: | 0.00 | |

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|--|--|----------|---------|---------|
| | |  | Titan Cable_head | 1.00 | 1.44 | 10.00 |
| | | | Probe275 2.75\" Centralizer | 2.88 | 2.75 | 20.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| WVF3FT | 14.74 |  | RBT-RBTC3 (FW1408-26) Probe Corrosion RCBL | 8.92 | 2.75 | 90.00 |
| WVFCAL | 14.74 | | | | | |
| WVFS1 | 14.74 | | | | | |
| WVFS2 | 14.74 | | | | | |
| WVFS3 | 14.74 | | | | | |
| WVFS4 | 14.74 | | | | | |
| WVFS5 | 14.74 | | | | | |
| WVFS6 | 14.74 | | | | | |
| WVFS7 | 14.74 | | | | | |
| WVFS8 | 14.74 | | | | | |
| WVF5FT | 13.74 | | | | | |
| TEMP | 11.12 | | | | | |
| | |  | Probe275 2.75\" Centralizer | 2.88 | 2.75 | 20.00 |
| | | | | | | |
| CCL | 6.71 | | | | | |
| | | | | | | |
| GR | 5.38 | | GR-Probe275 (FW1408-35) Probe 2 3/4\" Logging Gamma Ray | 4.78 | 2.75 | 57.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | PTS275 | 2.83 | 2.75 | |
| | | | | | | |

| | |
|---------------|-----------|
| Total Length: | 23.28 ft |
| Total Weight: | 197.00 lb |
| O.D. | 2.75 in |



| | |
|---------|-------------------------------|
| Company | BAYSWATER EXPLORATION & PRODU |
| Well | MATRIX N-29HC |
| Field | WATTENBERG |
| County | WELD |
| State | COLORADO |