



Radial Bond Log
Gamma Ray/CCL

Company Bayswater Exploration
Well Arellano S-10-9HN
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-41111

NE 1/4 & SE 1/4

N/A

SEC 10 TWP 5N RGE 65W

Permanent Datum Ground Level Elevation 4,616'
Log Measured From Ground Level
Drilling Measured From 23' Above Permanent Datum

Elevation
K.B. 4,593'
D.F. 4,592'
G.L. 4,616'

Date 17-July-2015

| | | | |
|------------------------|-------------------|--|--|
| Run Number | One | | |
| Depth Driller | 14,037' | | |
| Depth Logger | 6,575' | | |
| Bottom Logged Interval | 6,565' | | |
| Top Log Interval | Surface | | |
| Open Hole Size | N/A | | |
| Type Fluid | Water | | |
| Density / Viscosity | N/A | | |
| Max. Recorded Temp. | N/A | | |
| Estimated Cement Top | 49' | | |
| Time Well Ready | Upon Arrival | | |
| Time Logger on Bottom | 202 | | |
| Equipment Number | | | |
| Location | Ault, CO | | |
| Recorded By | Chris Blankenhorn | | |
| Witnessed By | Caleb Brewer | | |

| Borehole Record | | | | Tubing Record | | | |
|-----------------|-----|------|----|---------------|--------|------|----|
| Run Number | Bit | From | To | Size | Weight | From | To |

| | | | | |
|-------------------|--------|--------|---------|---------|
| Casing Record | Size | Mgt/Ft | Top | Bottom |
| Surface String | 9 5/8" | 36# | Surface | 790' |
| Prot. String | 7" | 29# | Surface | 7,361' |
| Production String | | | | |
| Liner | 4 1/2" | 13.5# | 6,475' | 14,037' |

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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

Thank you for using Cutters Wireline Services.
Your crew today: C. Blankenhorn, D. Morrow, J. Wilson, J. Rodriguez

720-289-8668

Calibration Report

Database File: bayswater arellano s-10-9hn.db
Dataset Pathname: pass7
Dataset Creation: Fri Jul 17 11:06:23 2015 by Log 7.0 B1

| | | |
|---------------------|--------------------------|----------|
| Serial Number: | 275D_with_INC | |
| Tool Model: | 275D_INC | |
| Performed: | Tue Jan 15 11:42:10 2013 | |
| Calibrator Value: | 300.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 400.0 | cps |
| Sensitivity: | 0.7375 | GAPI/cps |

Inclinometer Calibration Report

| | | | | | |
|-----------------|--------------------------|------------|----------|-----------|-----|
| Performed: | Fri Apr 04 16:42:15 2008 | | | | |
| | Low Read. | High Read. | Low Ref. | High Ref. | |
| X Accelerometer | -3579.00 | 3617.00 | -1.00 | 1.00 | gee |
| Y Accelerometer | -3671.40 | 3529.80 | -1.00 | 1.00 | gee |
| Z Accelerometer | -20.40 | 3584.00 | 0.00 | 1.00 | gee |

Segmented Cement Bond Log Calibration Report

| | | |
|------------------------------|---------|----|
| Serial Number: | 110217 | |
| Tool Model: | Probe | |
| Calibration Casing Diameter: | 7.000 | in |
| Calibration Depth: | 229.012 | ft |

Master Calibration, performed Fri Jul 17 07:30:24 2015:

| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|---------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.007 | 0.498 | 1.000 | 62.165 | 124.550 | 0.168 |
| CAL | 0.540 | 0.558 | | | | |
| 5' | 0.011 | 0.599 | 1.000 | 62.165 | 104.165 | -0.191 |
| SUM | | | | | | |
| S1 | 0.006 | 0.430 | 0.250 | 100.000 | 235.274 | -1.255 |
| S2 | 0.009 | 0.484 | 0.250 | 100.000 | 209.908 | -1.597 |
| S3 | 0.007 | 0.535 | 0.250 | 100.000 | 189.037 | -1.065 |
| S4 | 0.007 | 0.544 | 0.250 | 100.000 | 185.797 | -1.065 |
| S5 | 0.008 | 0.544 | 0.250 | 100.000 | 186.105 | -1.270 |
| S6 | 0.009 | 0.526 | 0.250 | 100.000 | 192.838 | -1.457 |
| S7 | 0.006 | 0.471 | 0.250 | 100.000 | 214.684 | -1.094 |
| S8 | 0.005 | 0.434 | 0.250 | 100.000 | 232.436 | -0.976 |

Internal Reference Calibration, performed Wed Jul 15 08:33:35 2015:

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | 0.540 | 0.558 | 1.000 | 0.000 |

Air Zero Calibration, performed Fri Jul 17 07:14:29 2015:

| | Raw (v) | Calibrated (v) | Results |
|--|---------|----------------|---------|
|--|---------|----------------|---------|

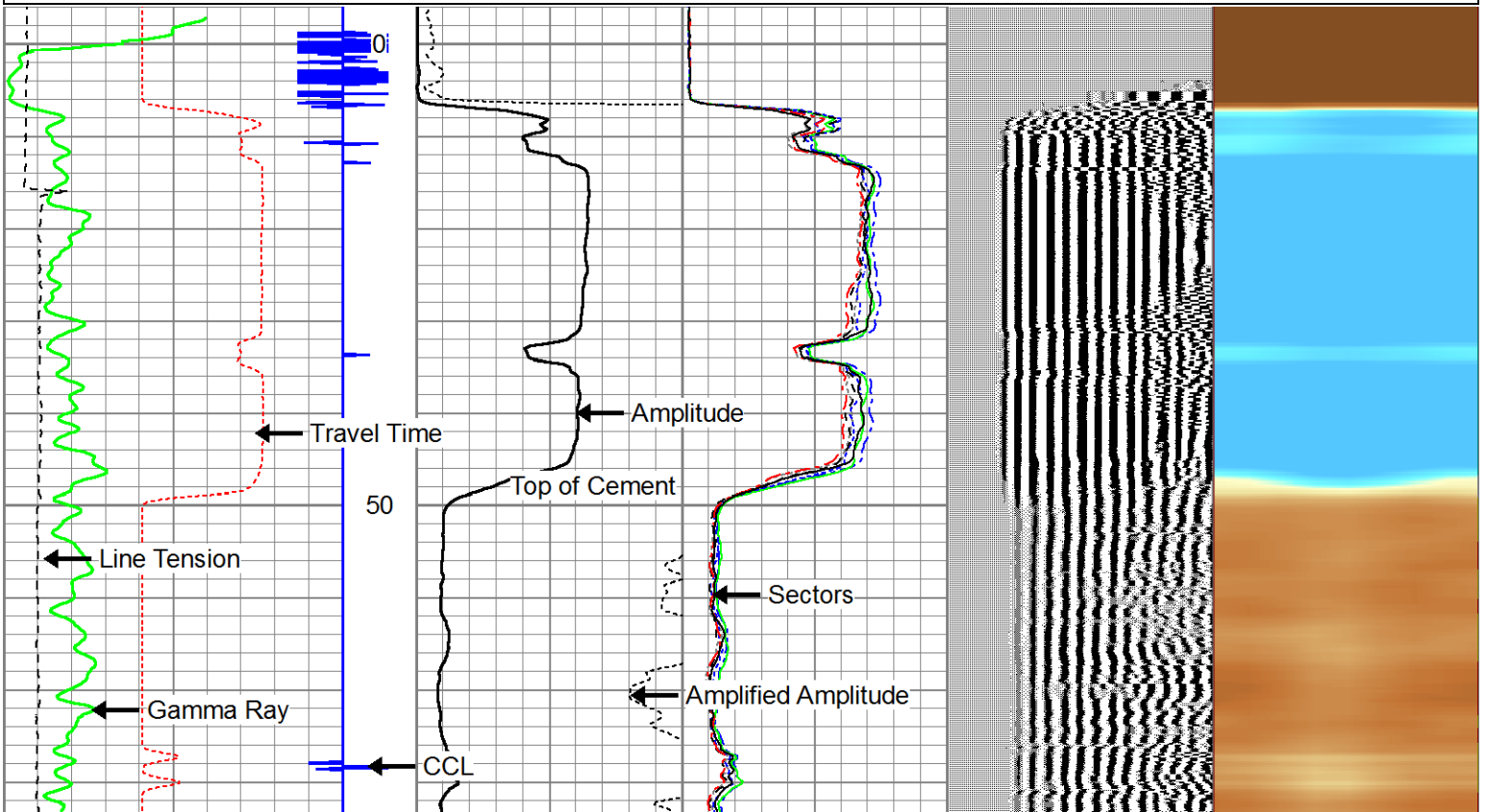
| | Raw (v) | Calibrated (v) | Results |
|-----|---------|----------------|---------|
| | Zero | Zero | Offset |
| 3' | 0.000 | 0.000 | 0.000 |
| 5' | 0.000 | 0.000 | 0.000 |
| SUM | | | |
| S1 | 0.000 | 0.000 | 0.000 |
| S2 | 0.000 | 0.000 | 0.000 |
| S3 | 0.000 | 0.000 | 0.000 |
| S4 | 0.000 | 0.000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

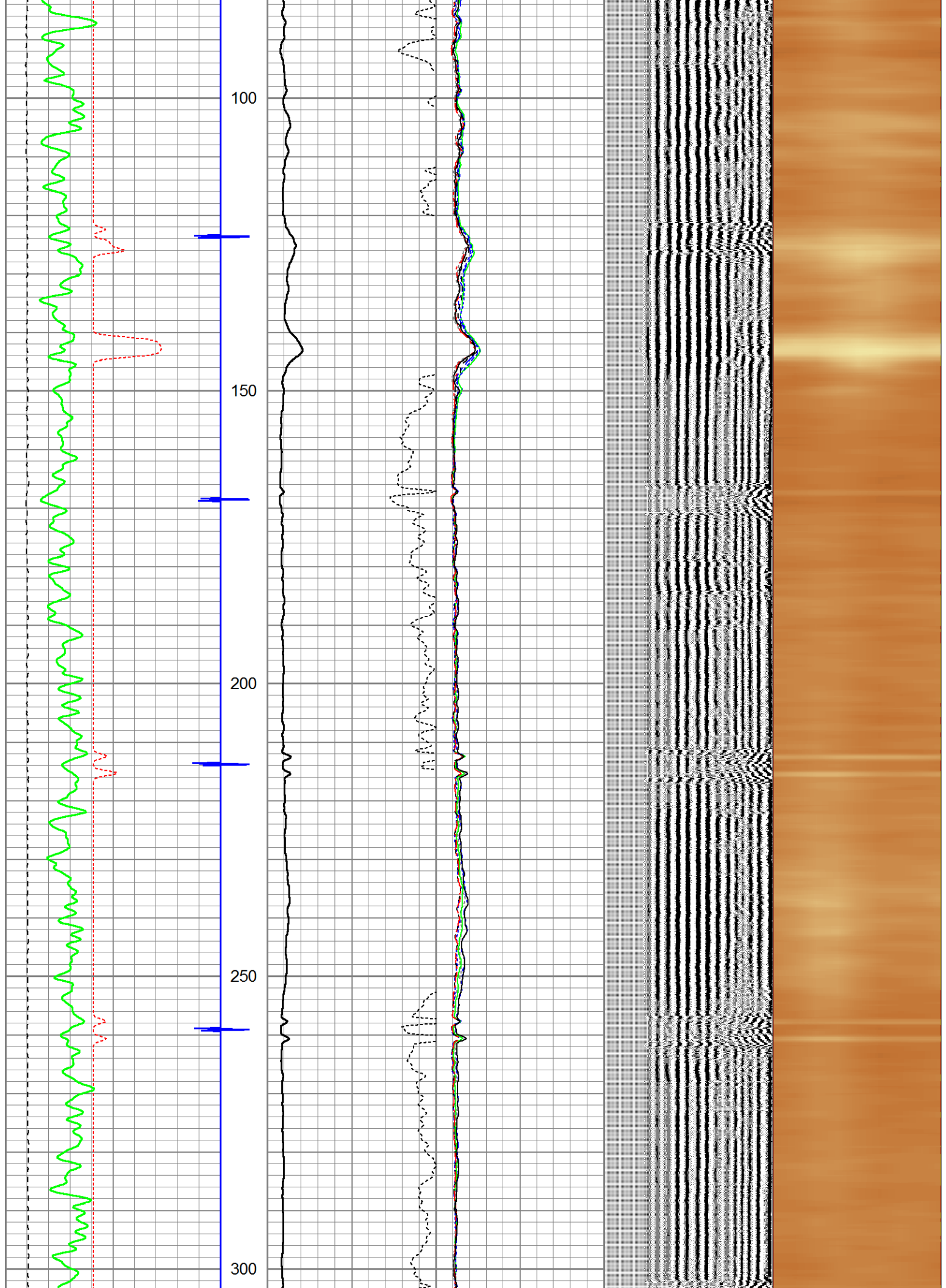


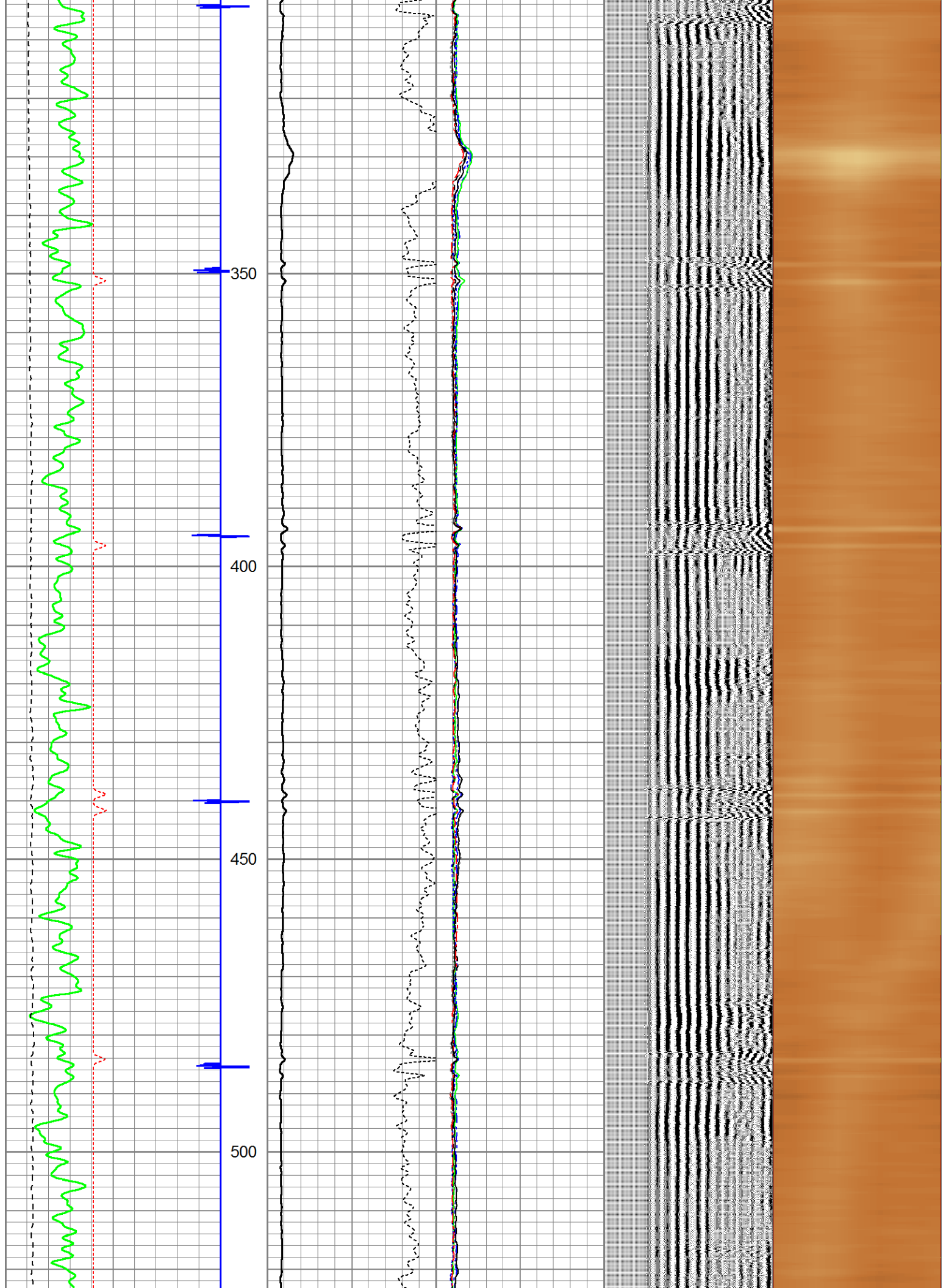
Main Pass @ 1000 PSI

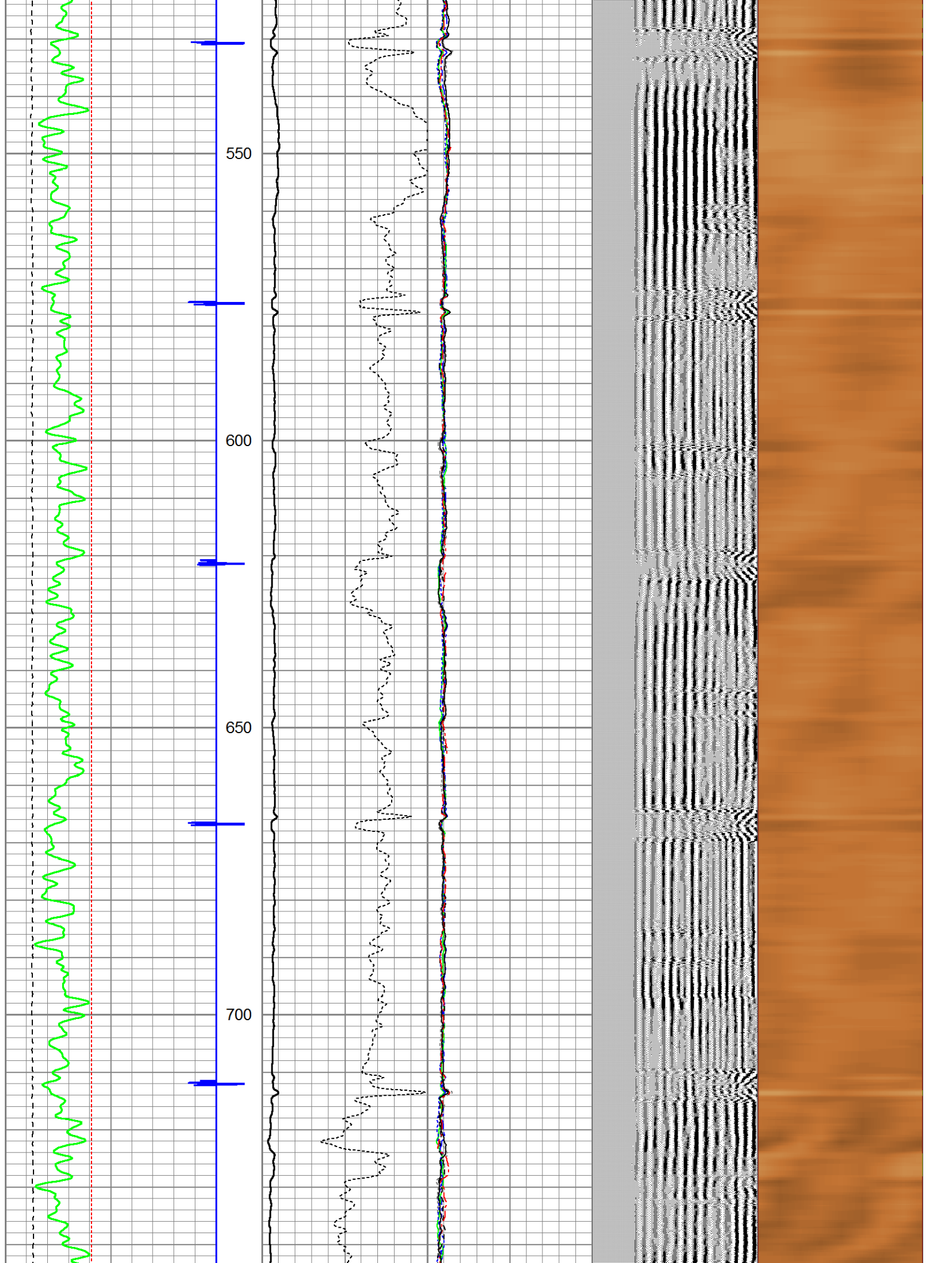
Database File: bayswater arellano s-10-9hn.db
 Dataset Pathname: pass7
 Presentation Format: anadarko
 Dataset Creation: Fri Jul 17 11:06:23 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

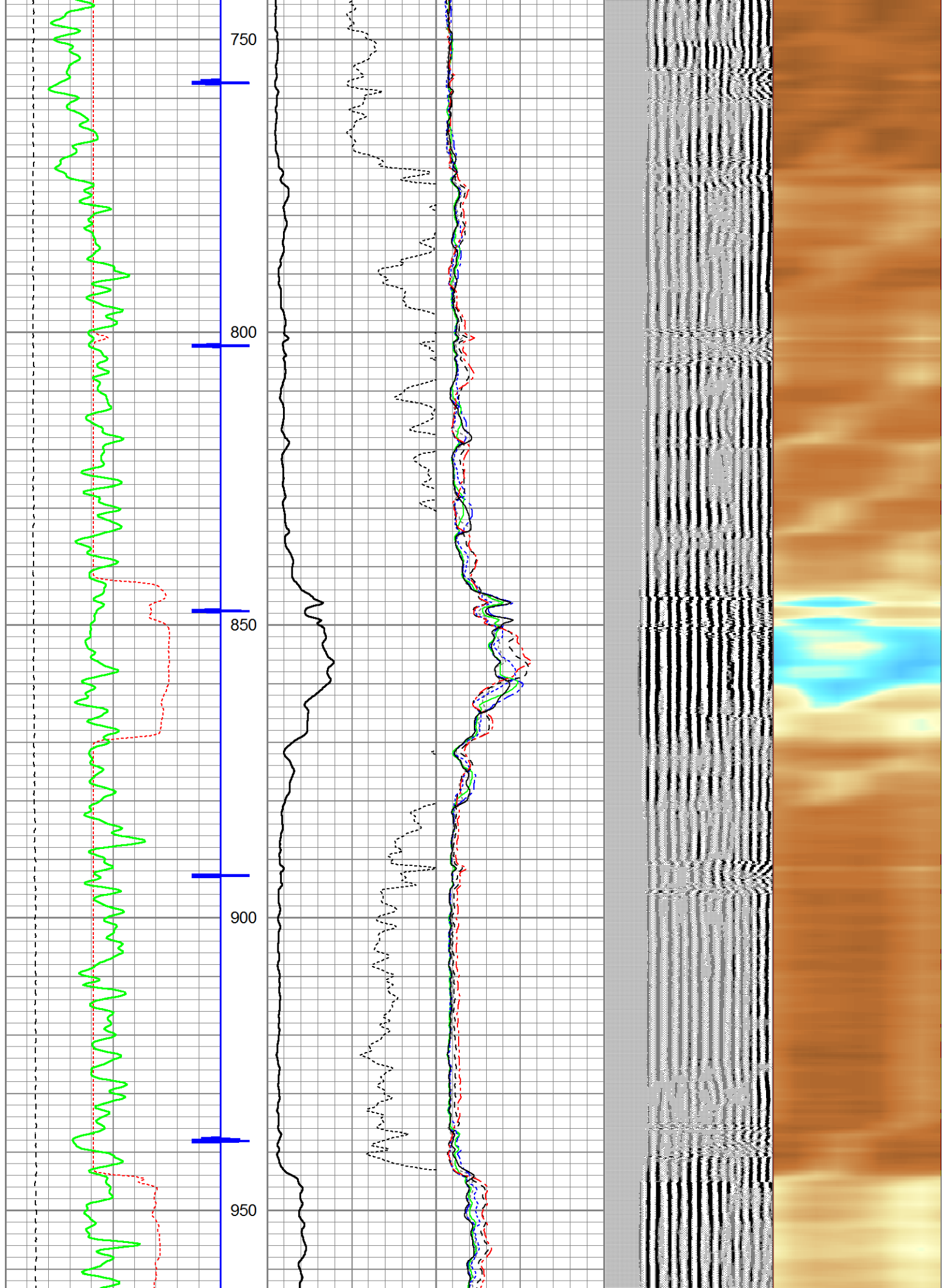
| | | | | | | | | | | | | |
|-----|-----------|------|---|---------------------|-----|----|-------|-----|-----|-----|------|------------|
| 360 | TT (usec) | 260 | 0 | Amplitude (mV) | 100 | -5 | AMPS2 | 150 | 200 | VDL | 1200 | Cement Map |
| 0 | GR (GAPI) | 150 | | Amplified Amplitude | | -5 | AMPS3 | 150 | | | | |
| 0 | LTEN (lb) | 4000 | 0 | (mV) | 10 | -5 | AMPS4 | 150 | | | | |
| | | | | | | -5 | AMPS5 | 150 | | | | |
| | | | | | | -5 | AMPS6 | 150 | | | | |
| | | | | | | -5 | AMPS7 | 150 | | | | |
| | | | | | | -5 | AMPS8 | 150 | | | | |
| | | | | | | -5 | AMPS1 | 150 | | | | |

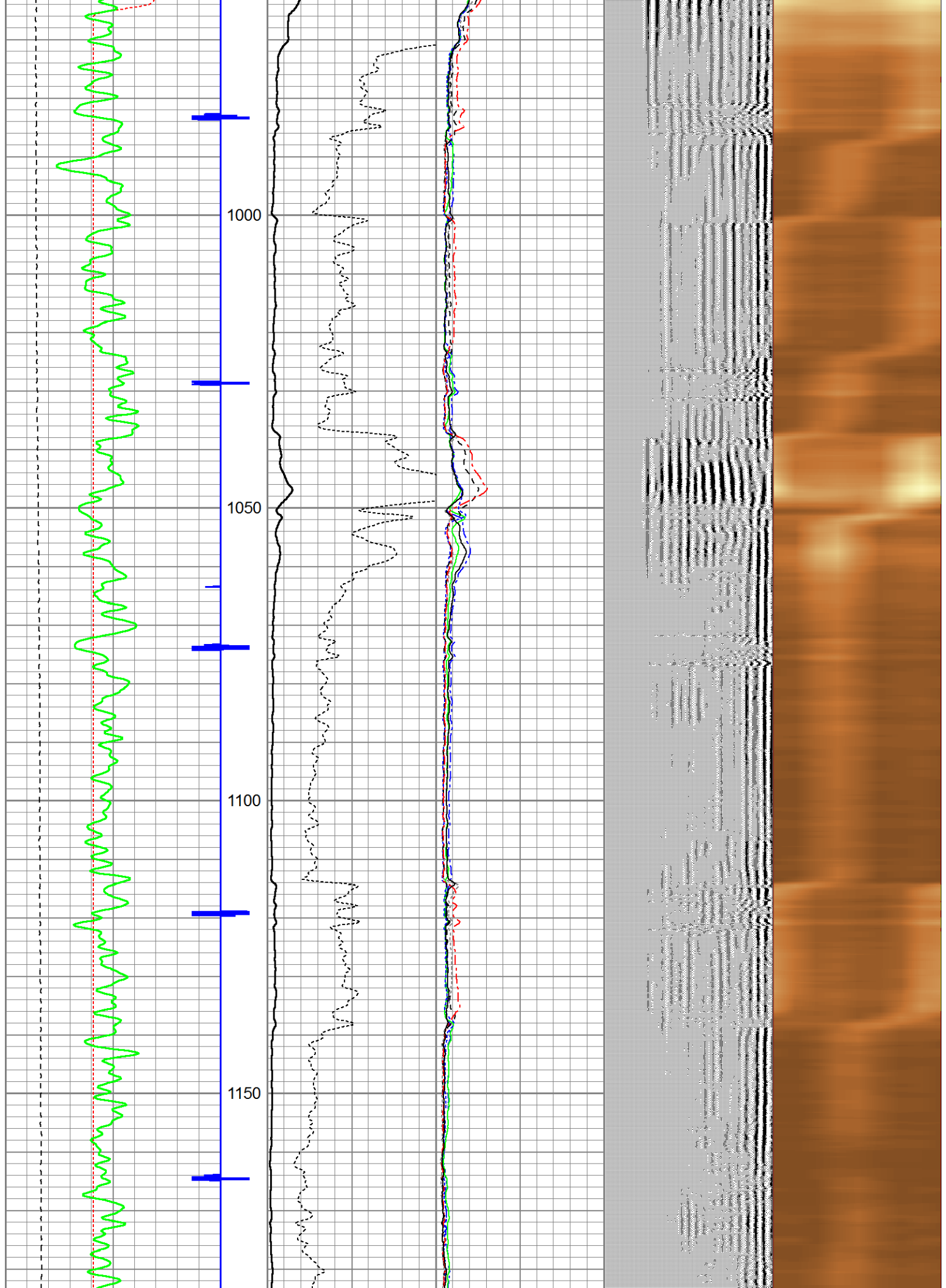


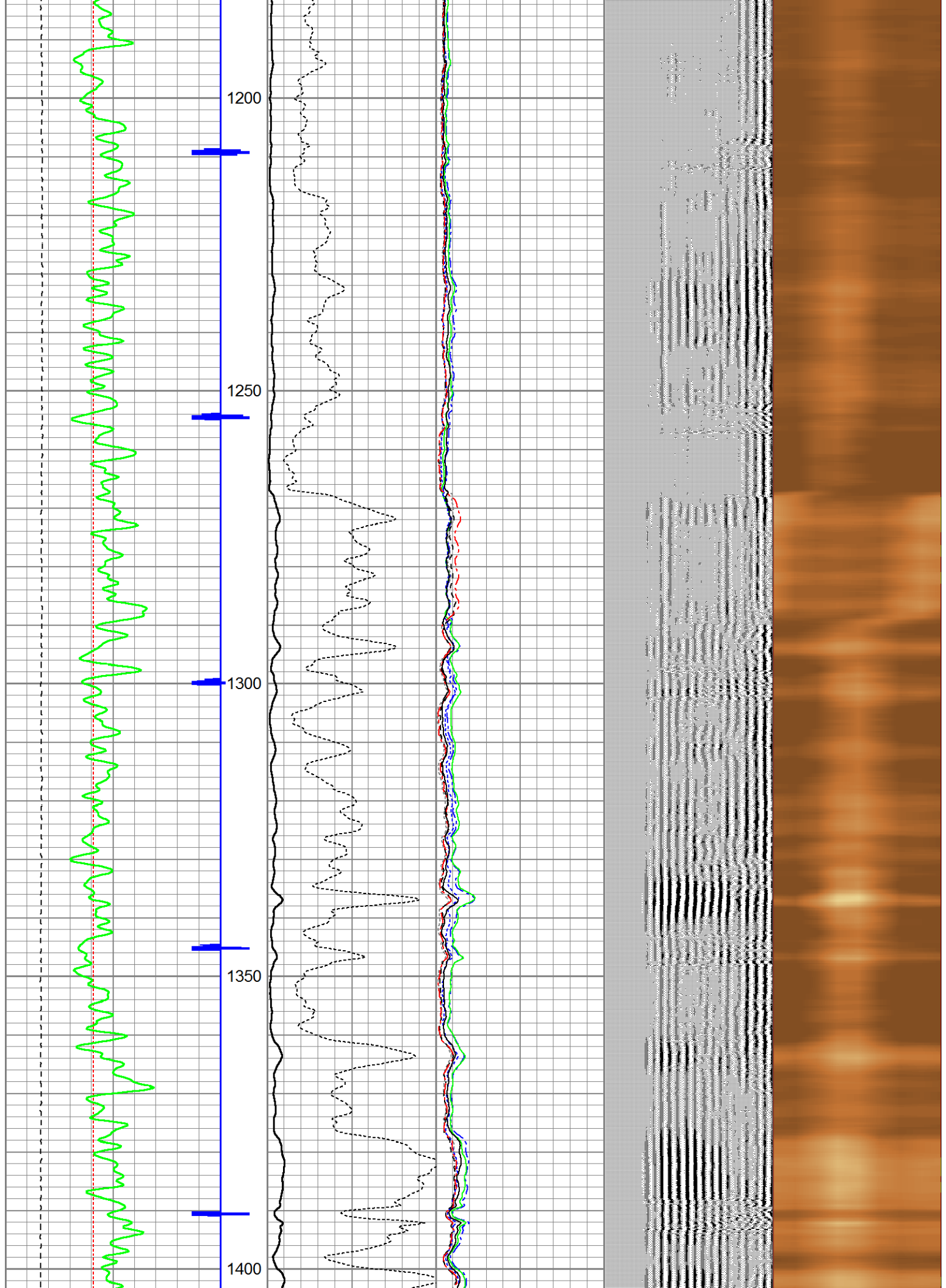


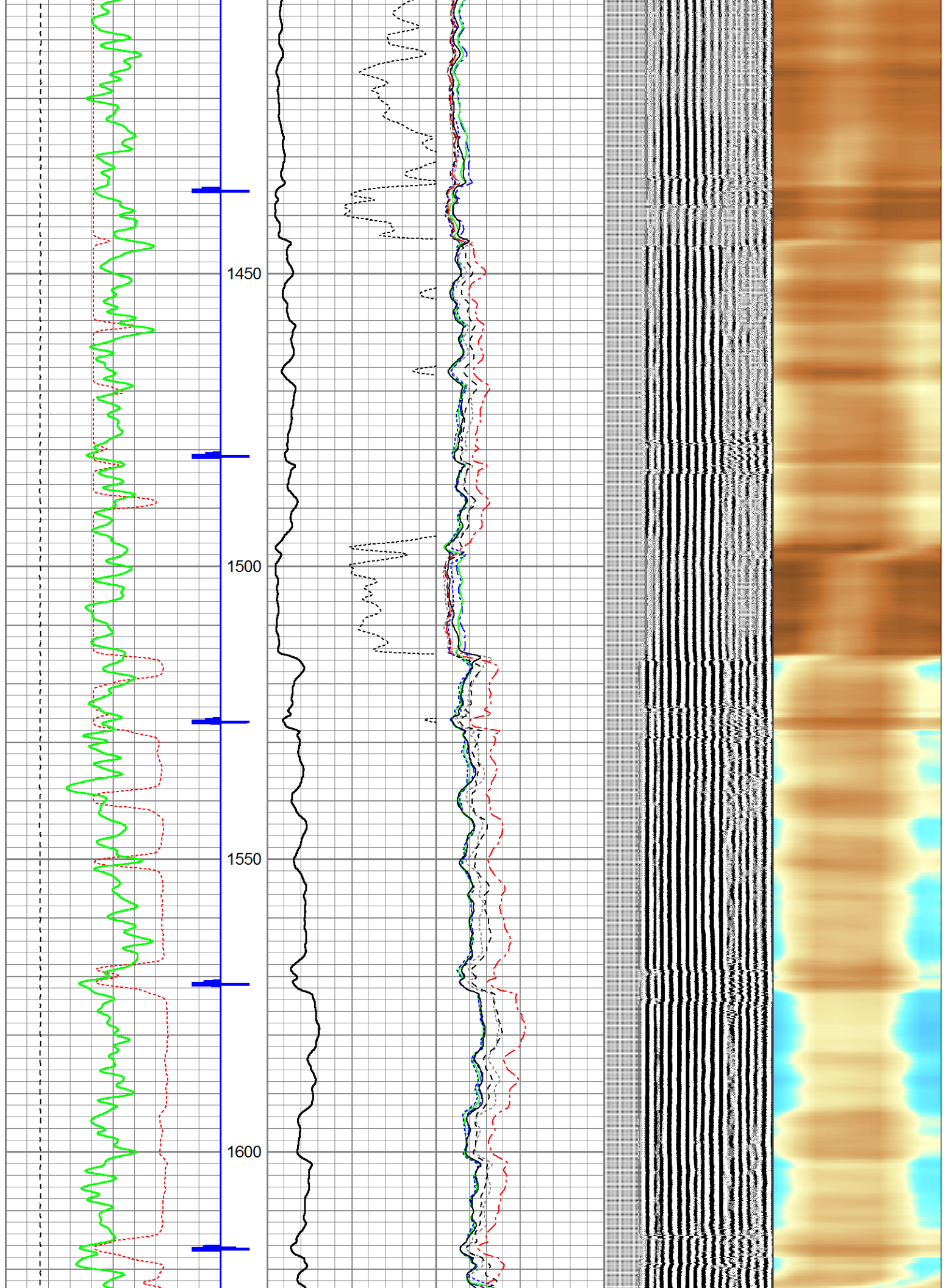


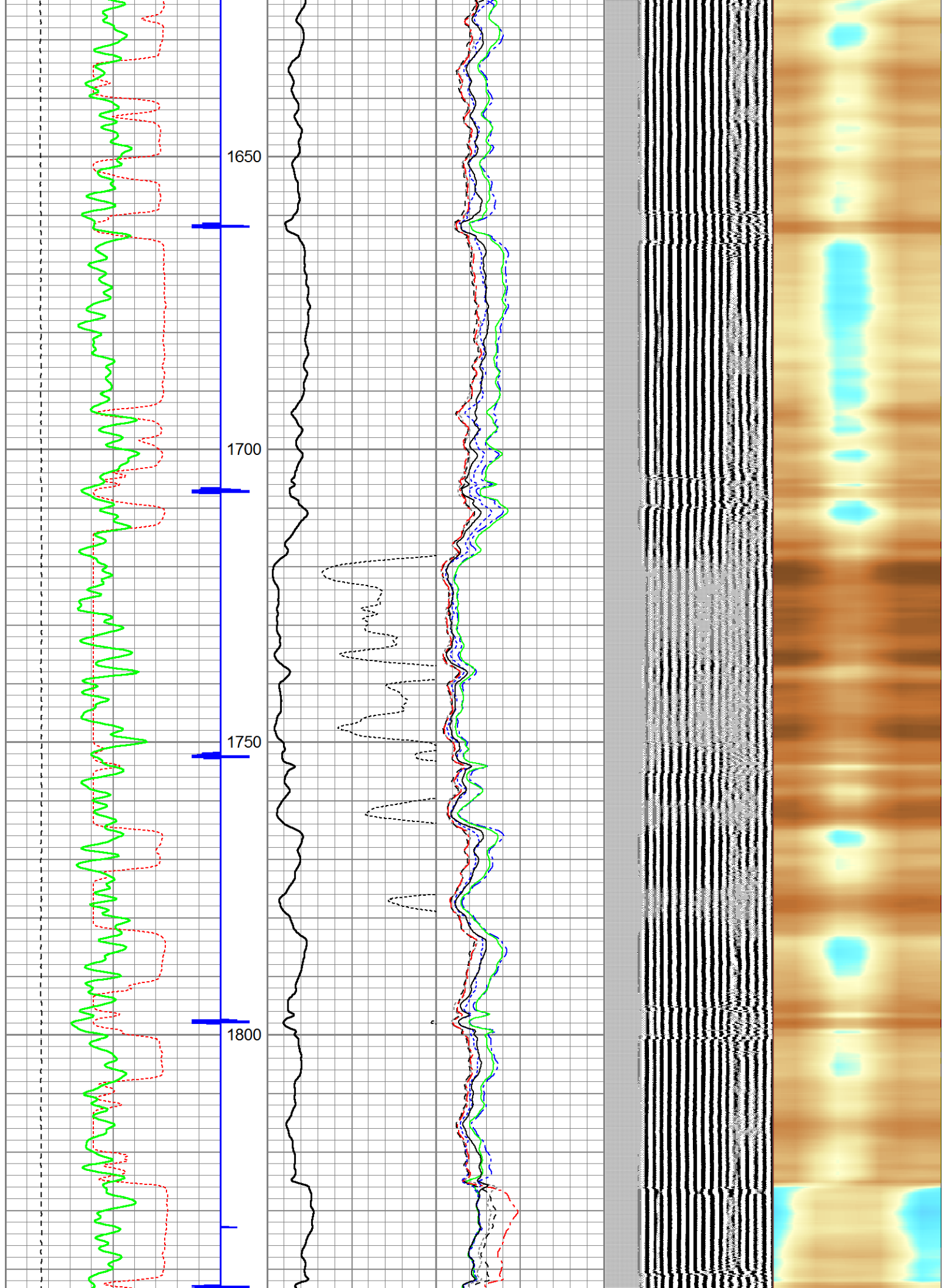


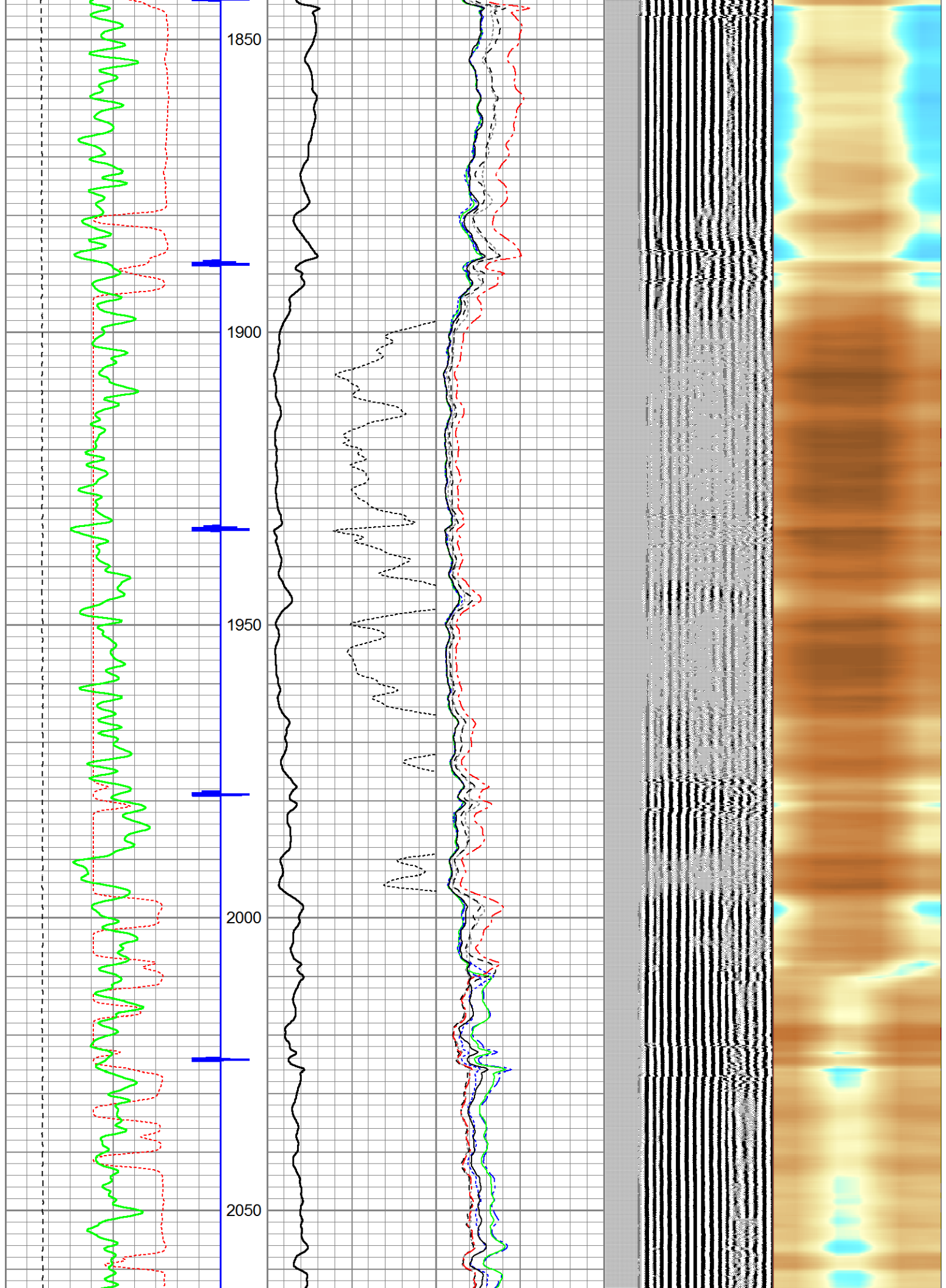


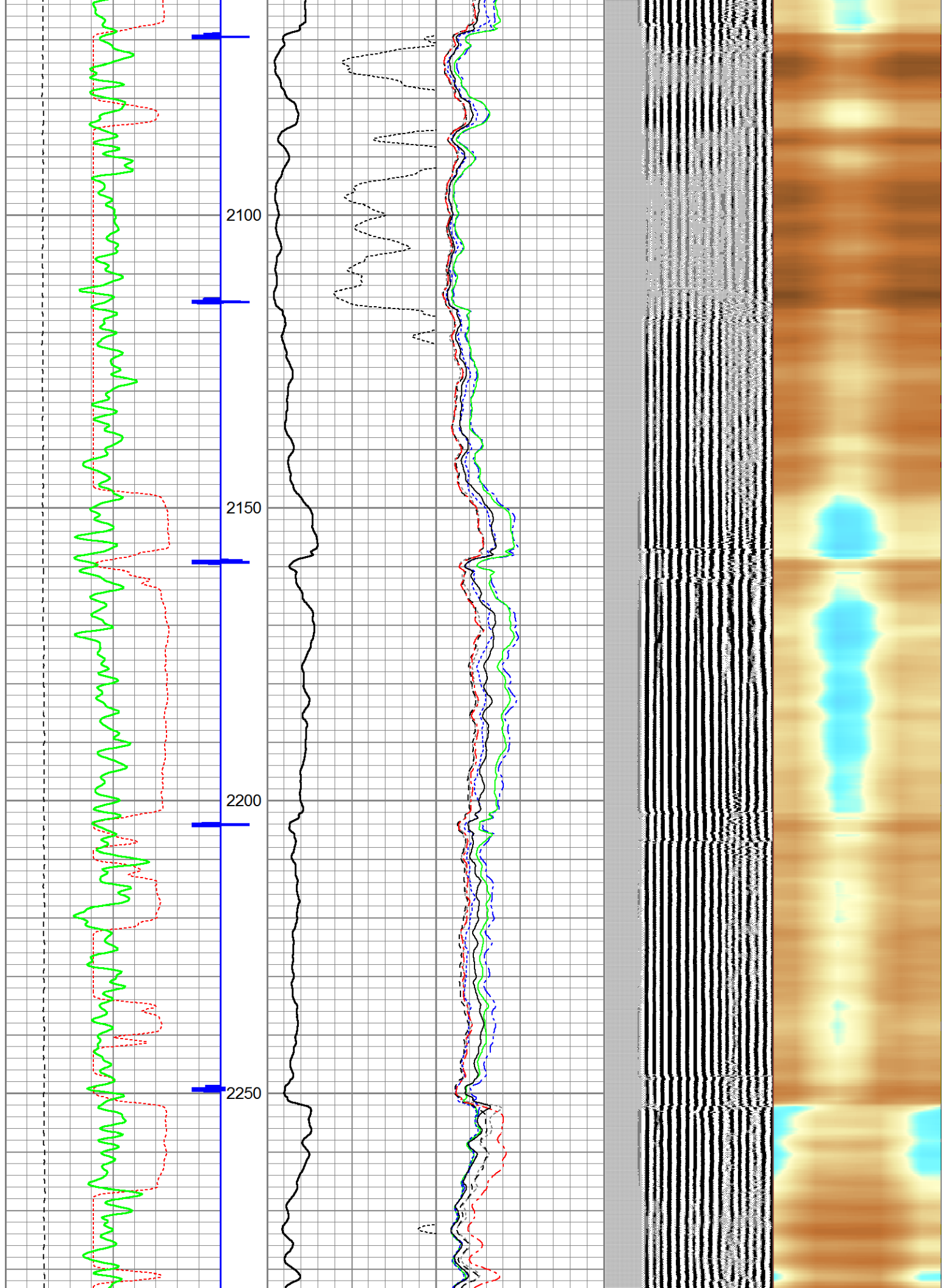


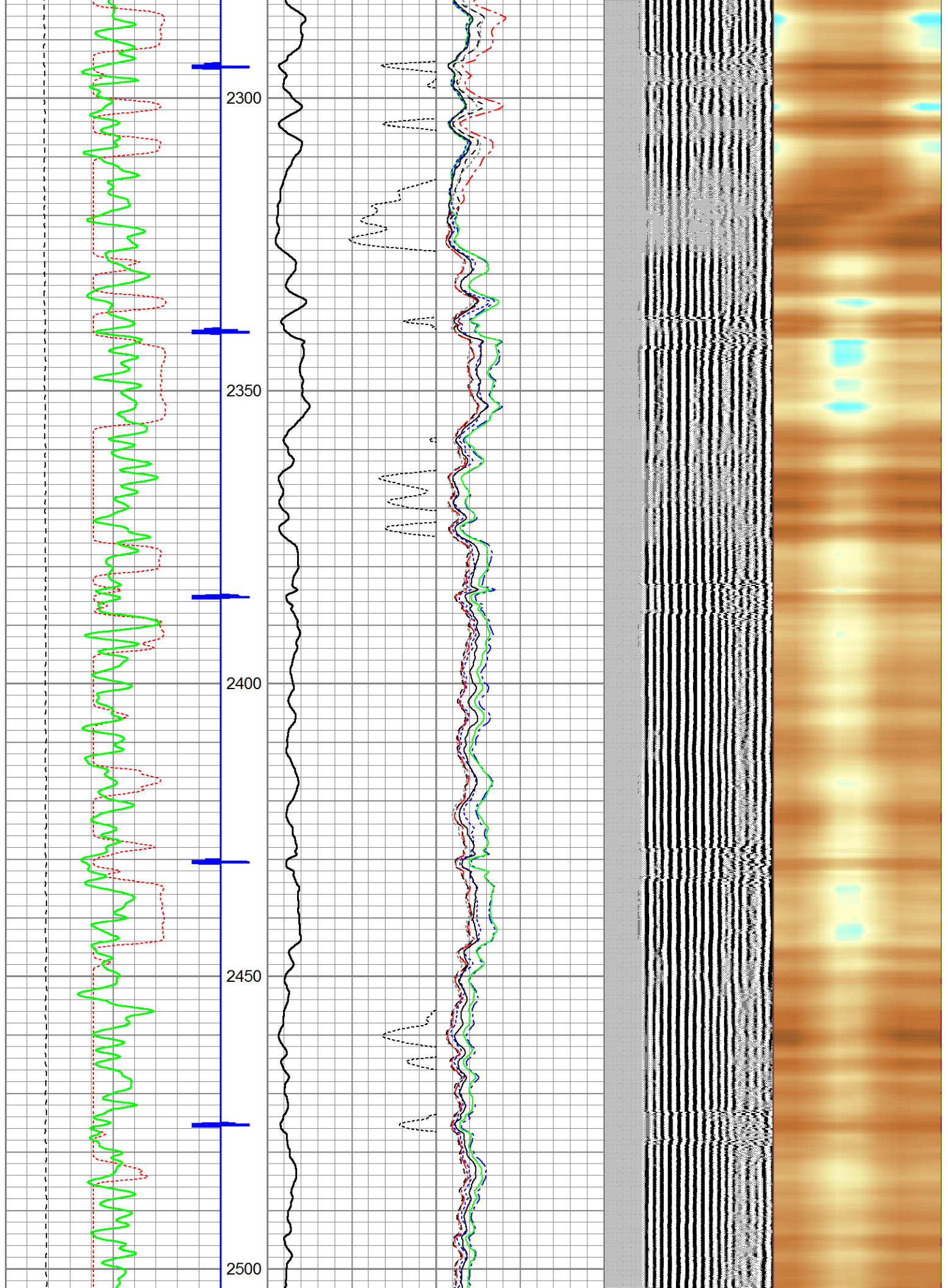


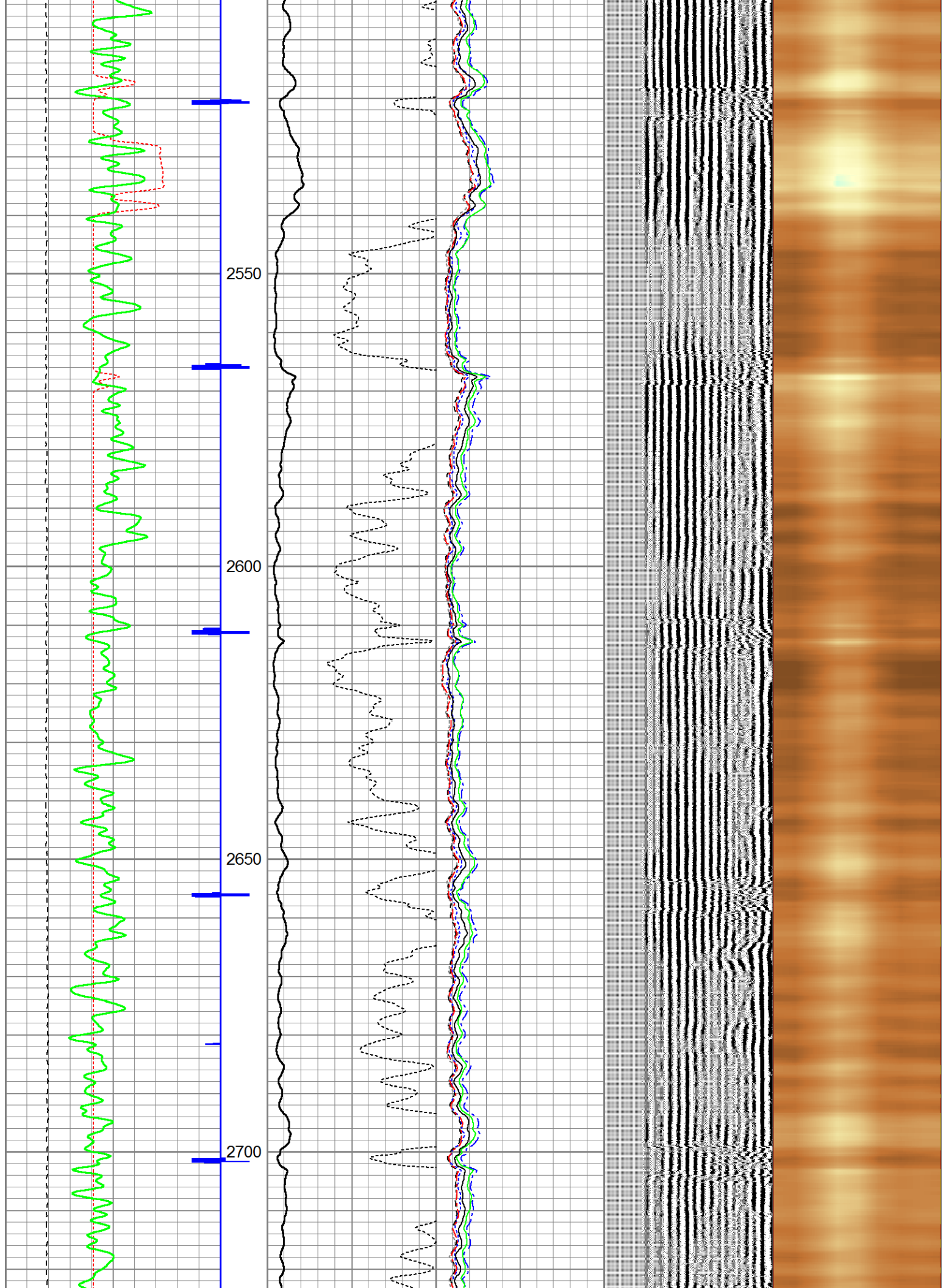


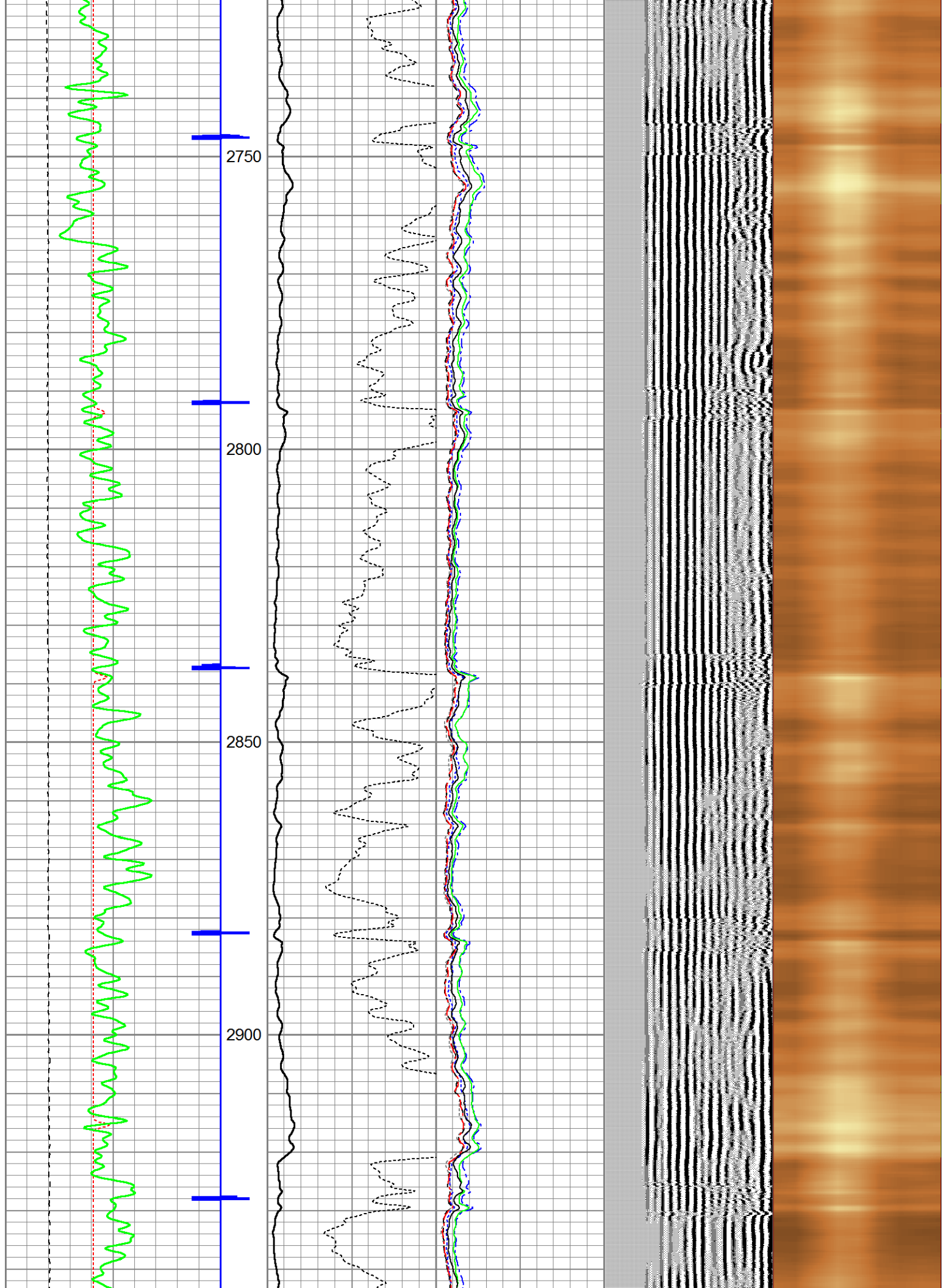


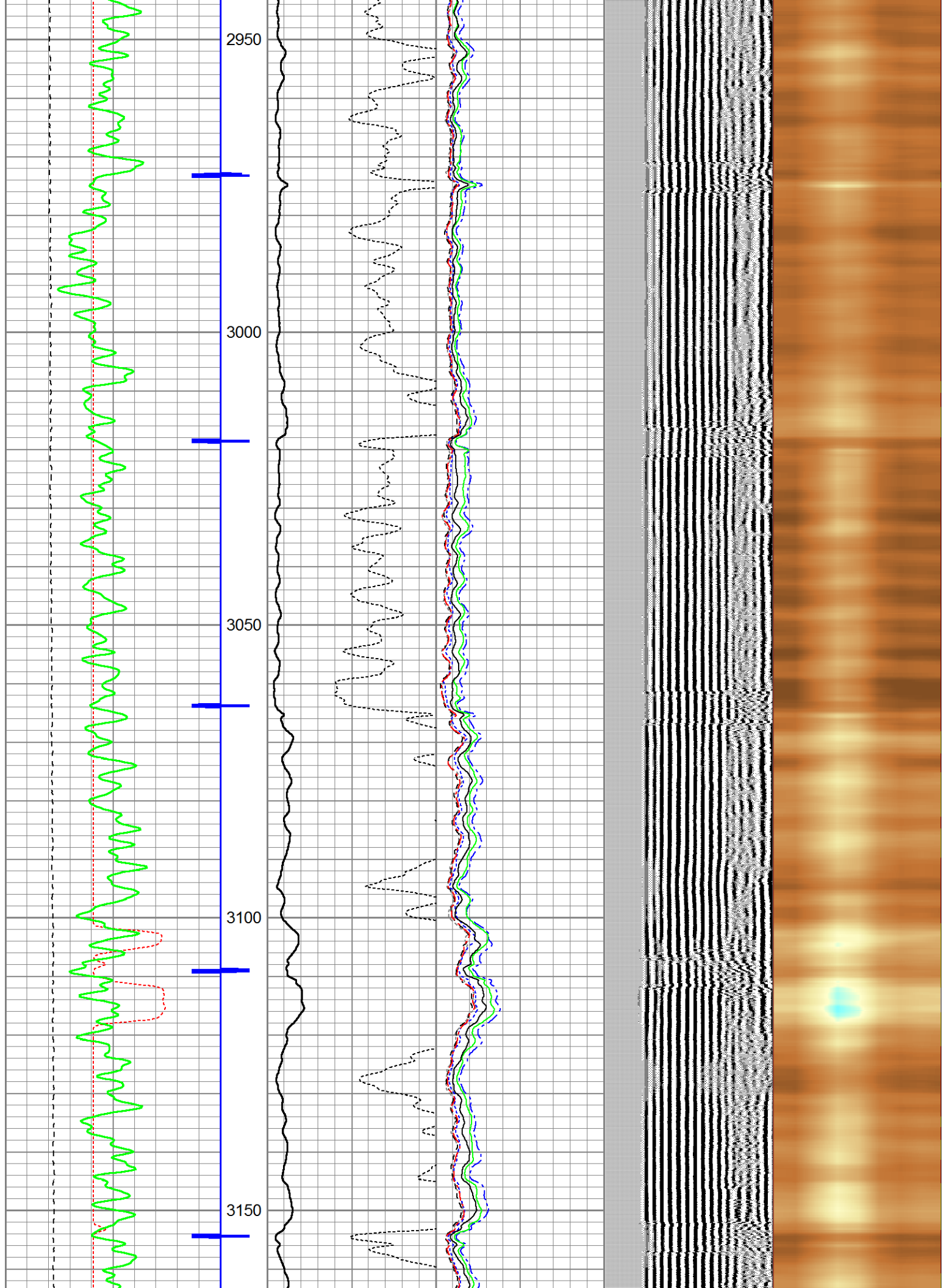


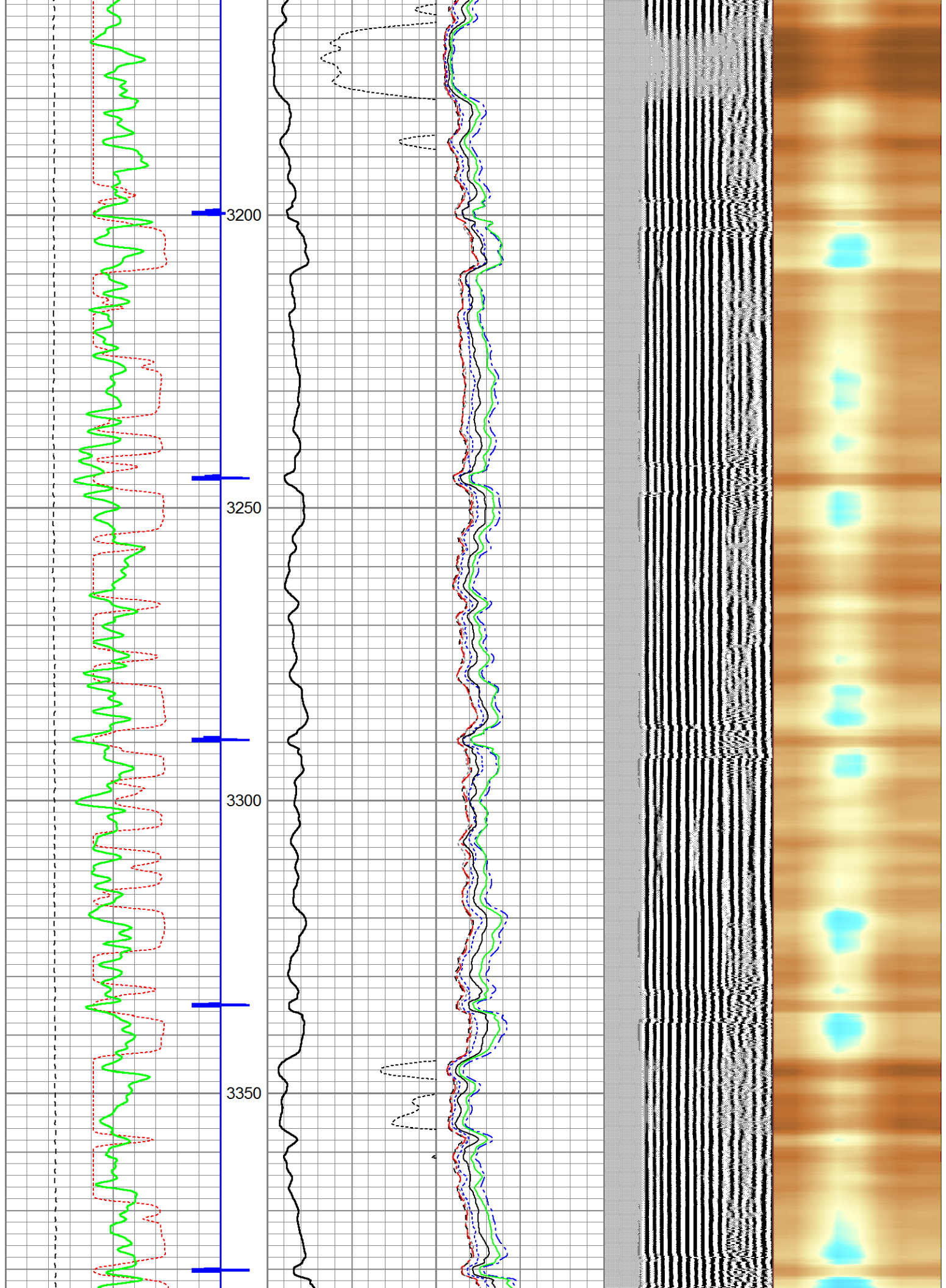


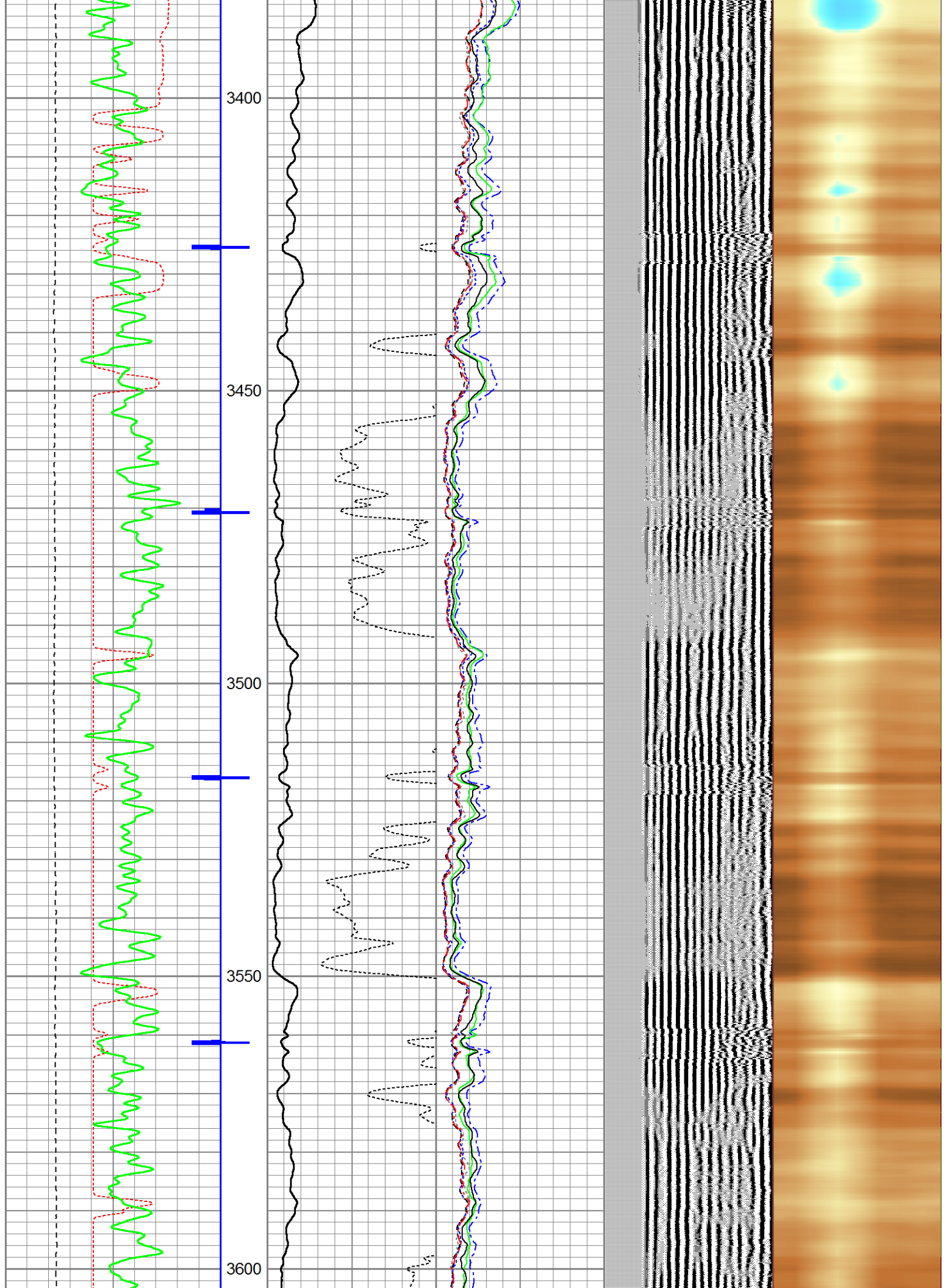


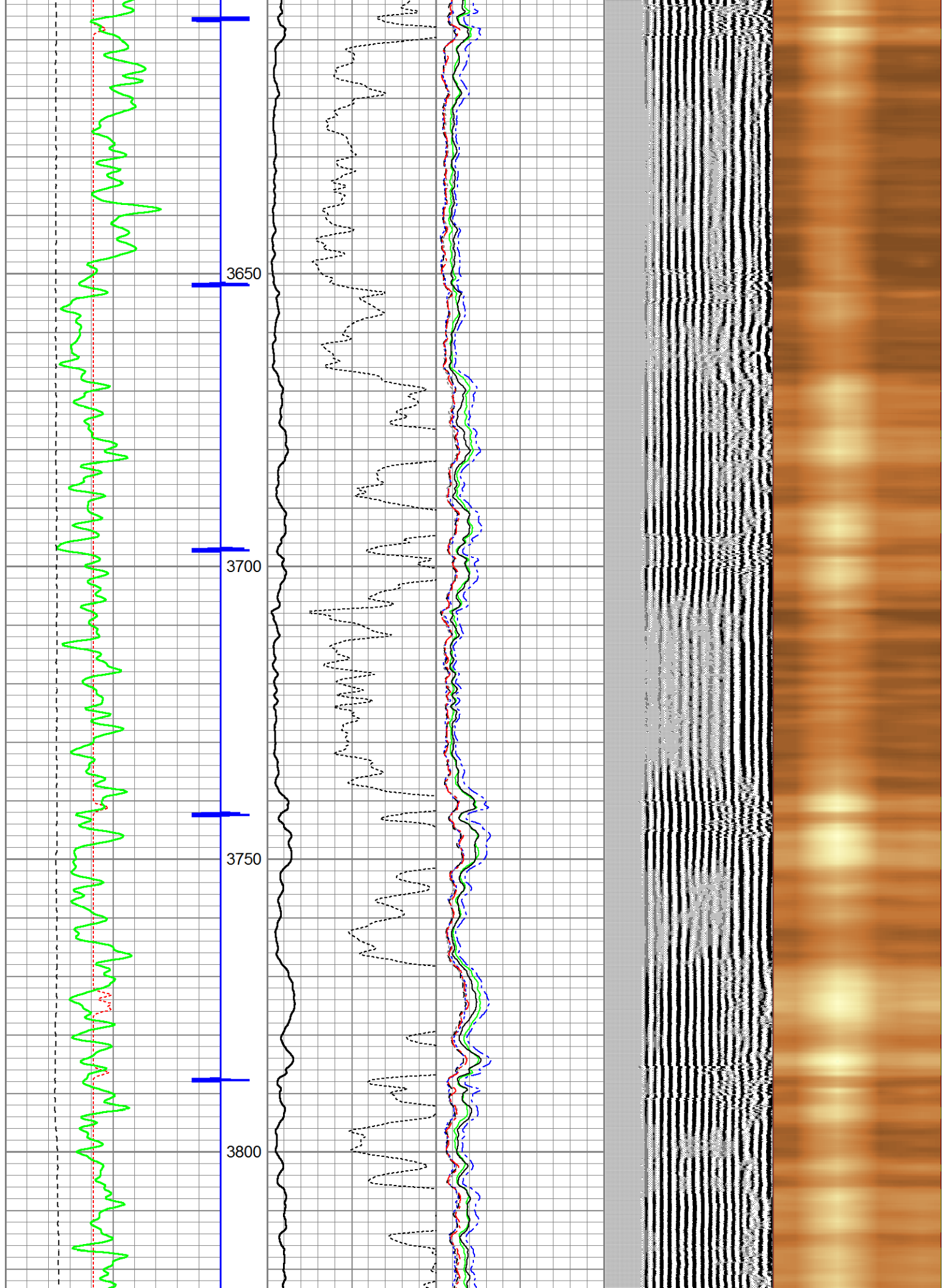


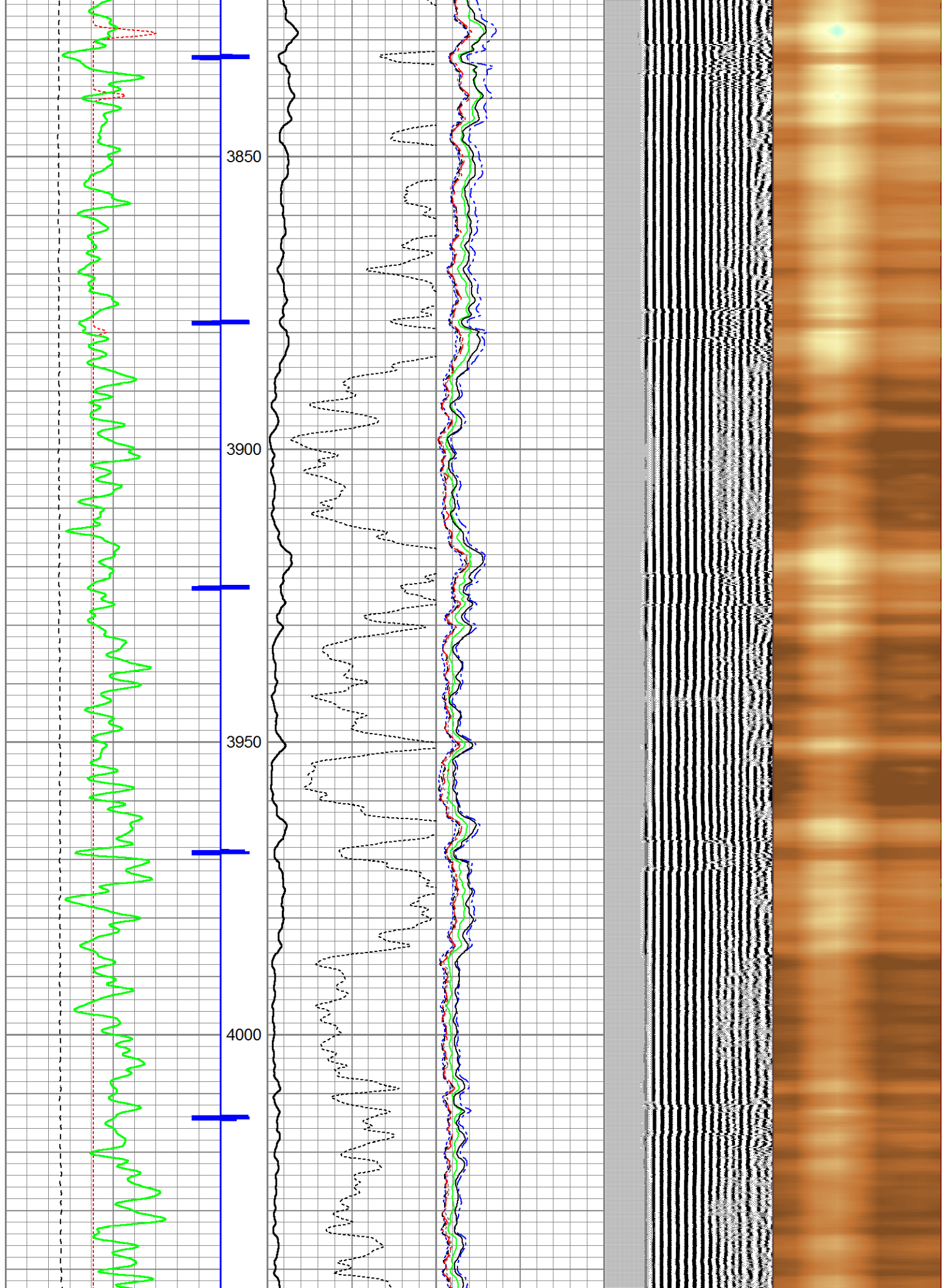


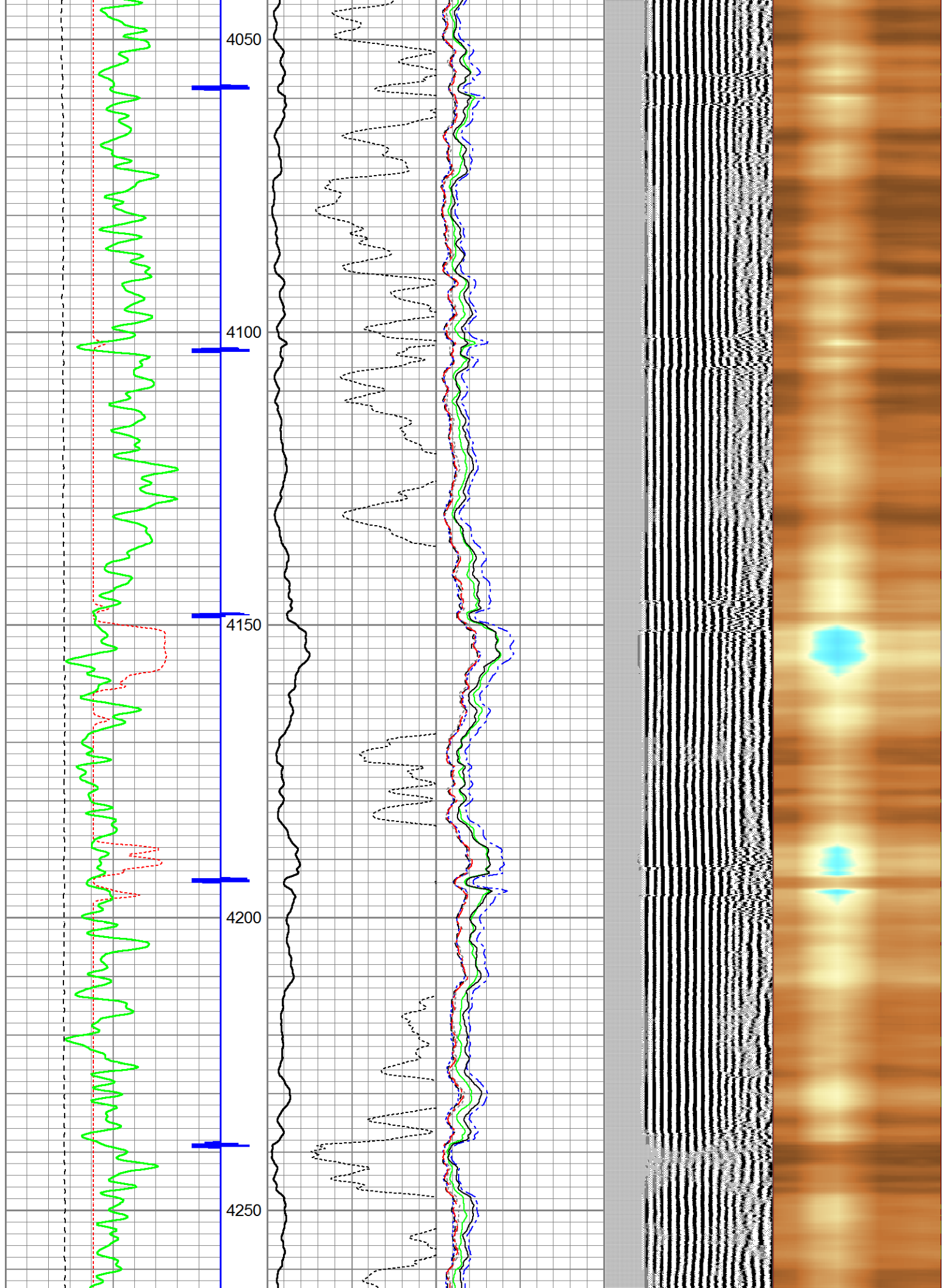


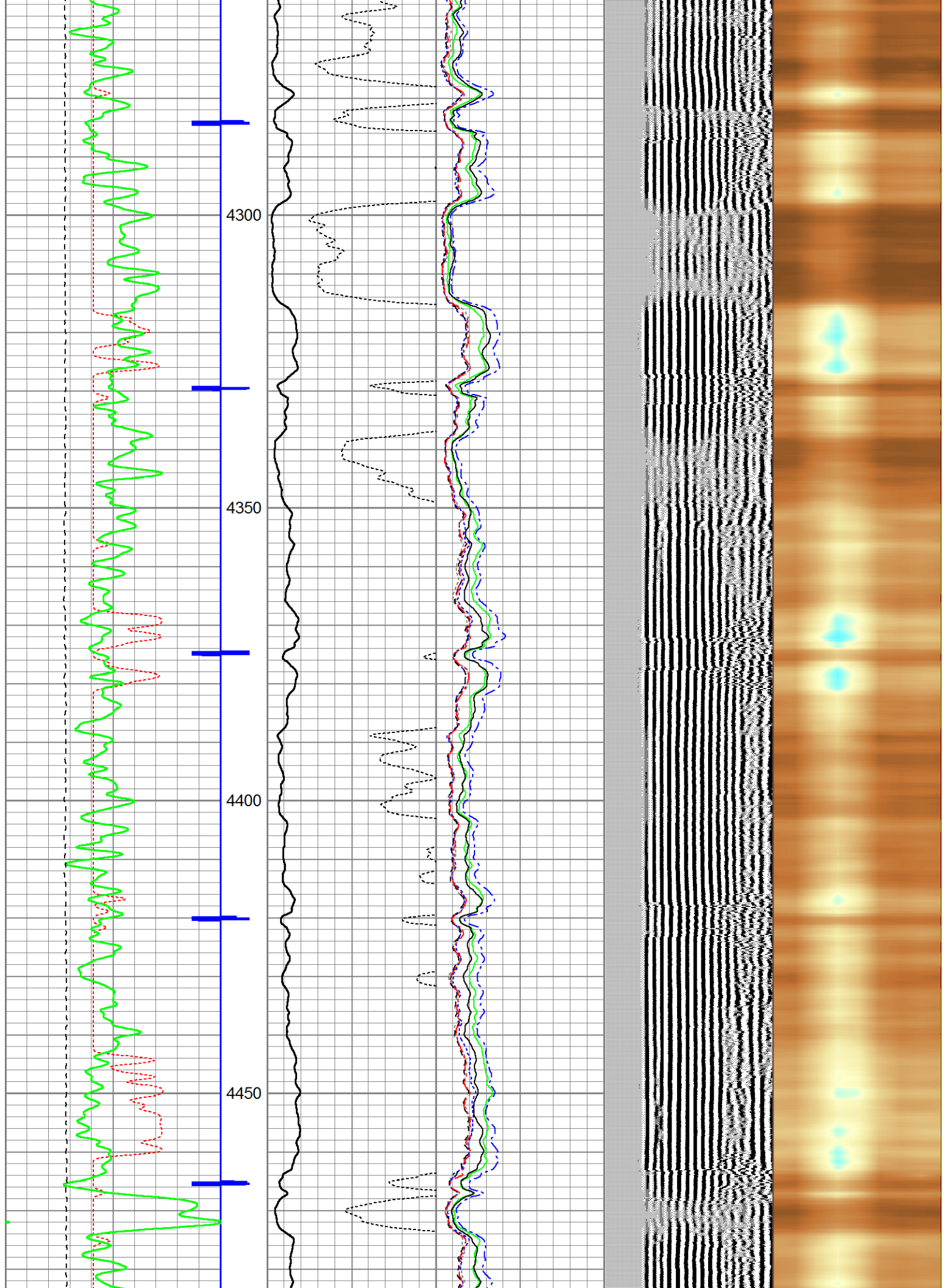


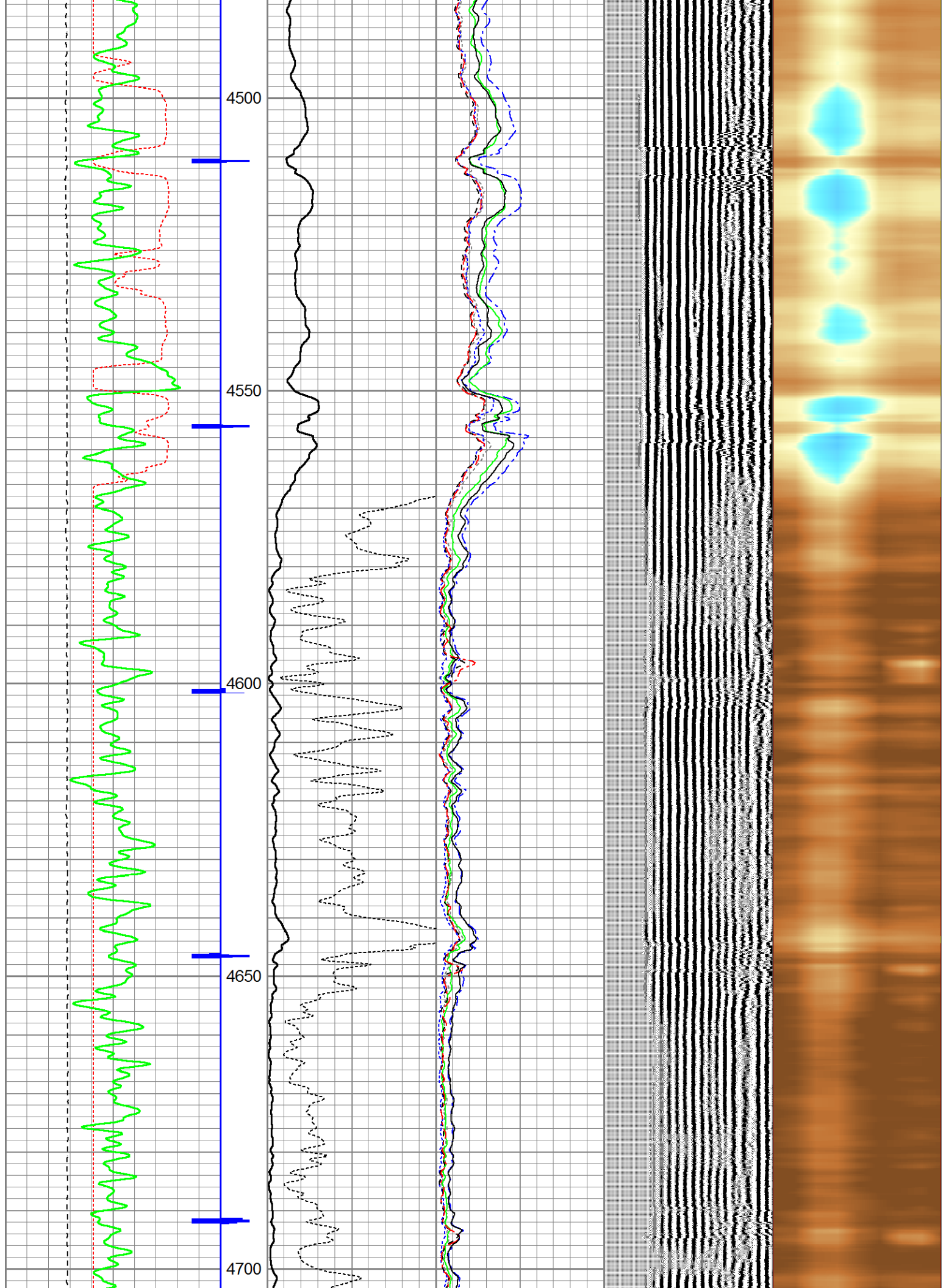


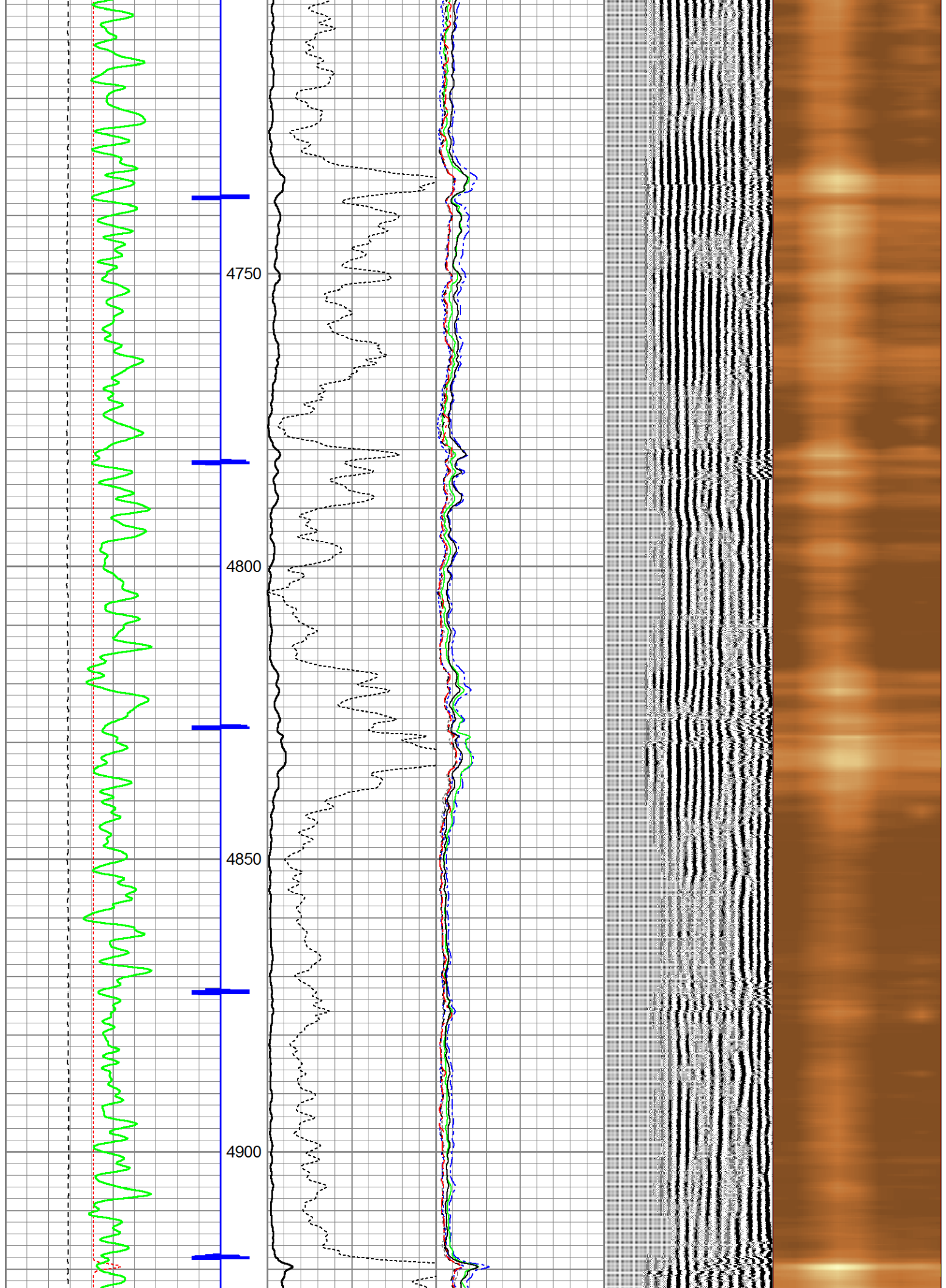


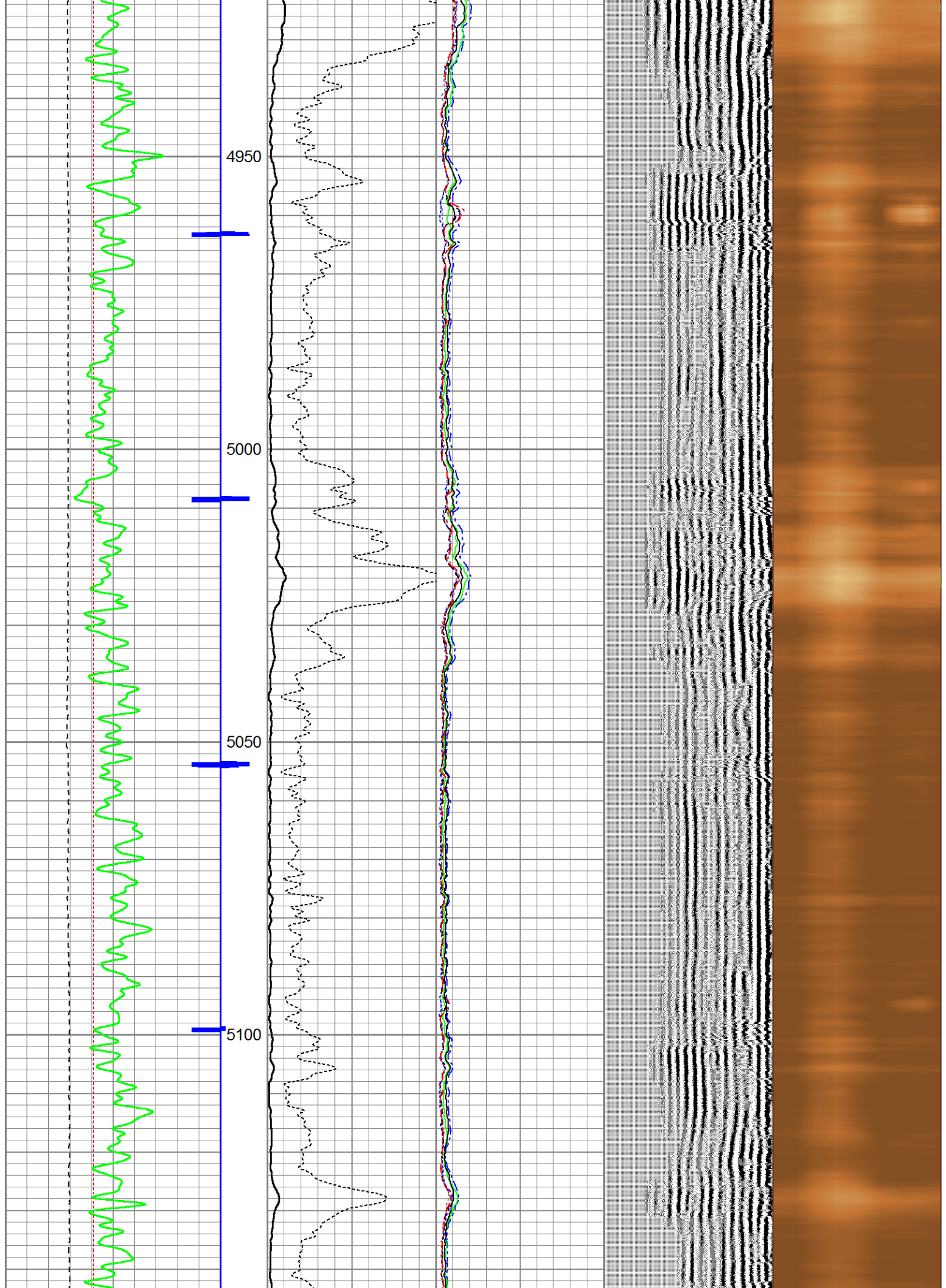


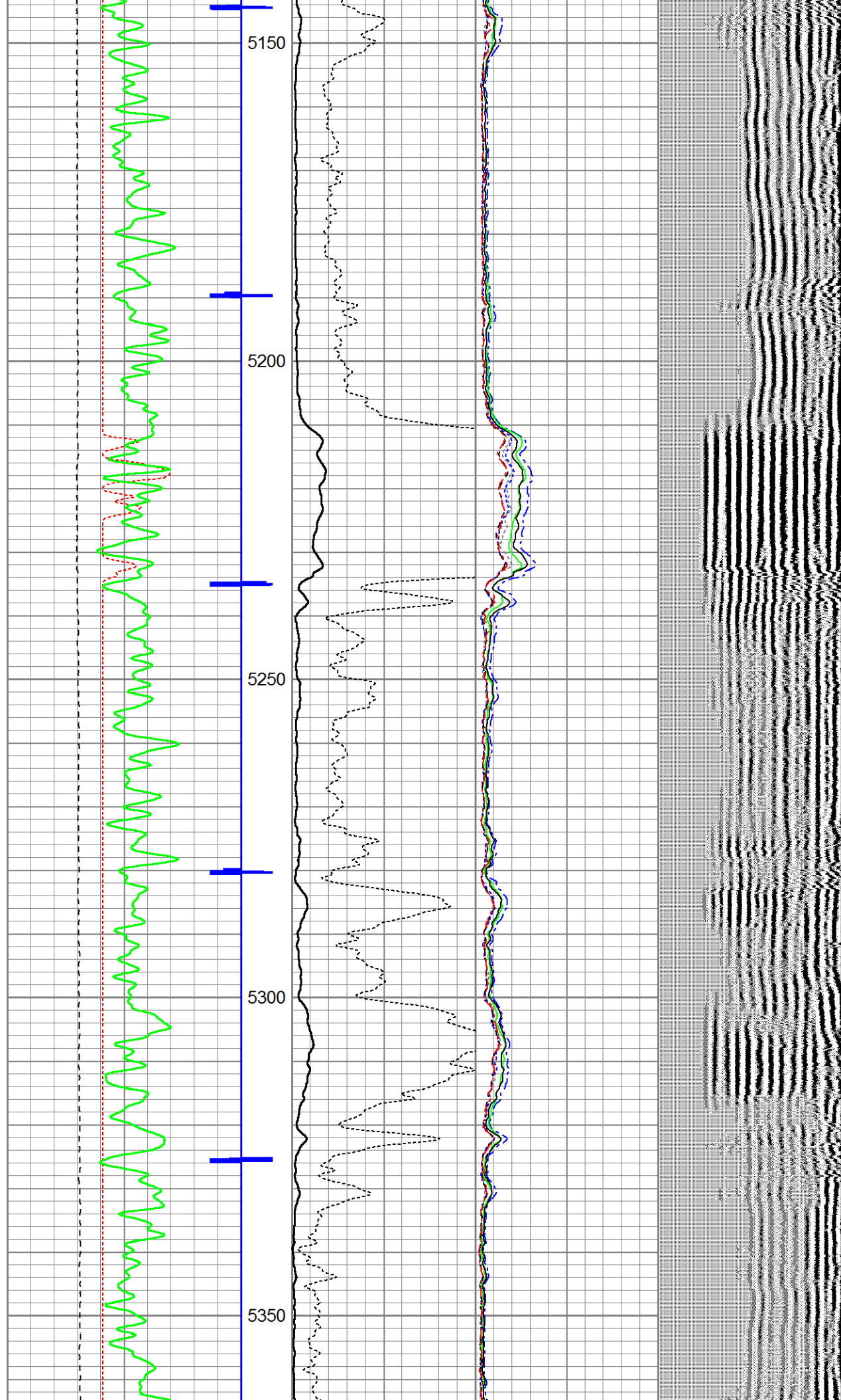


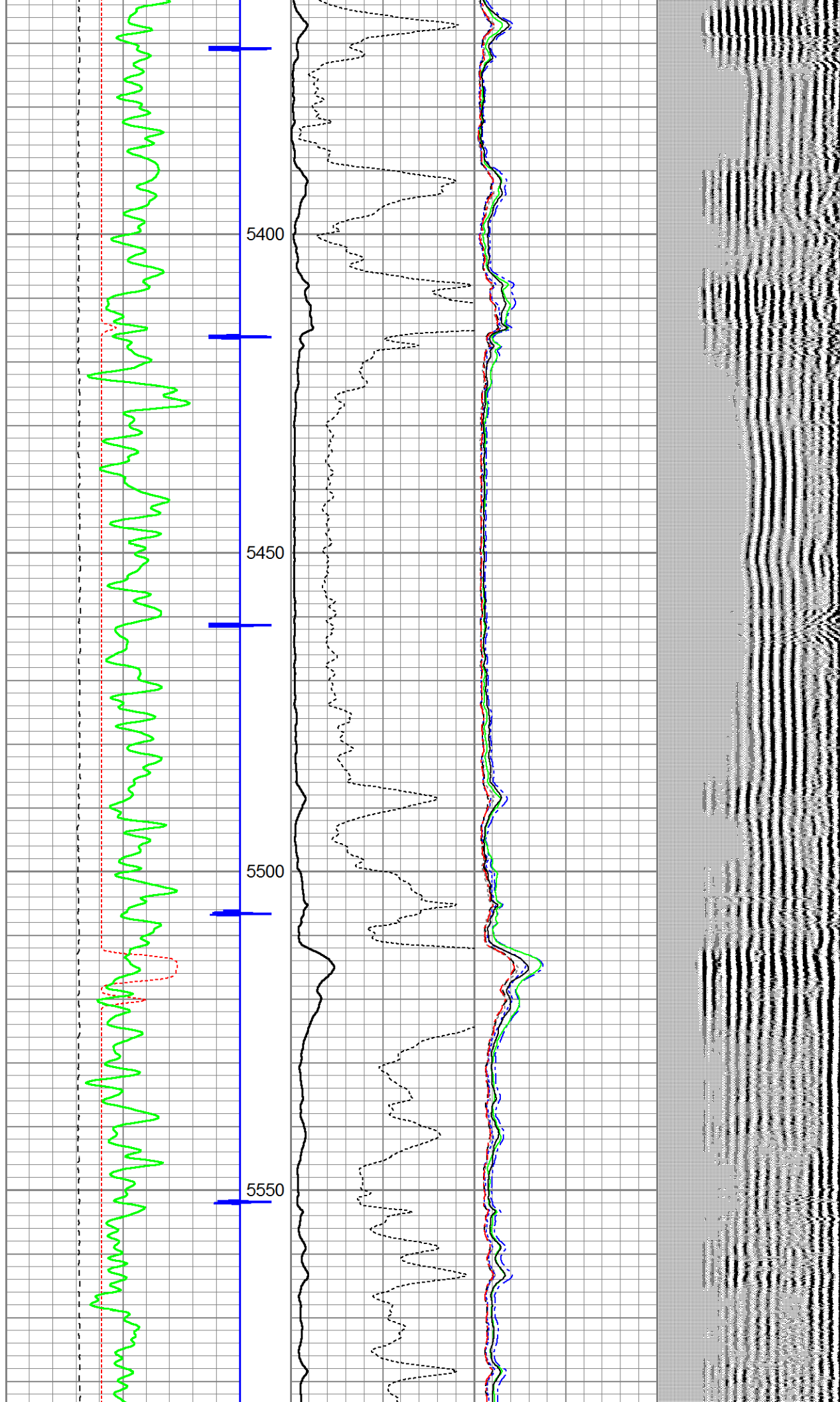


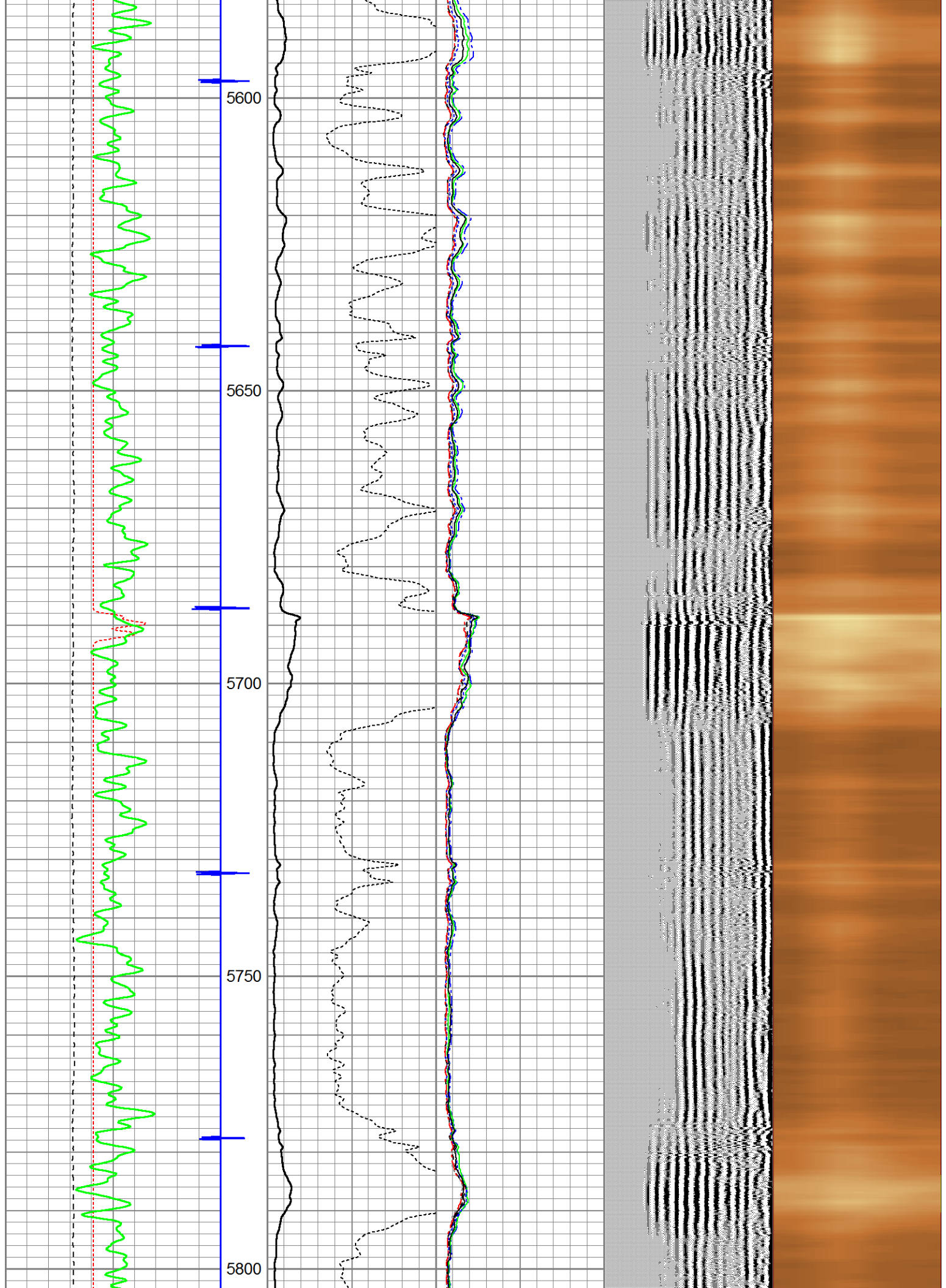


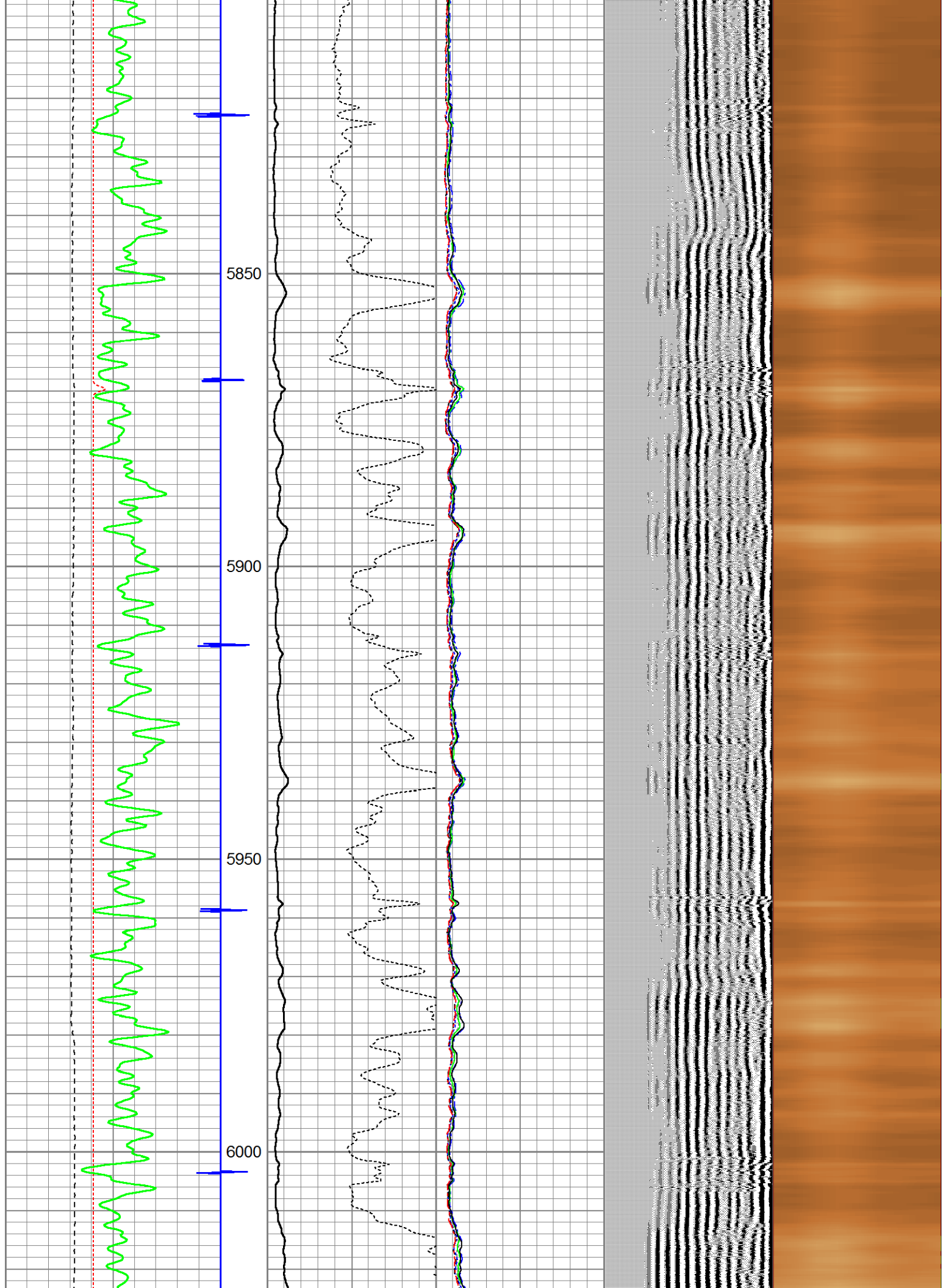


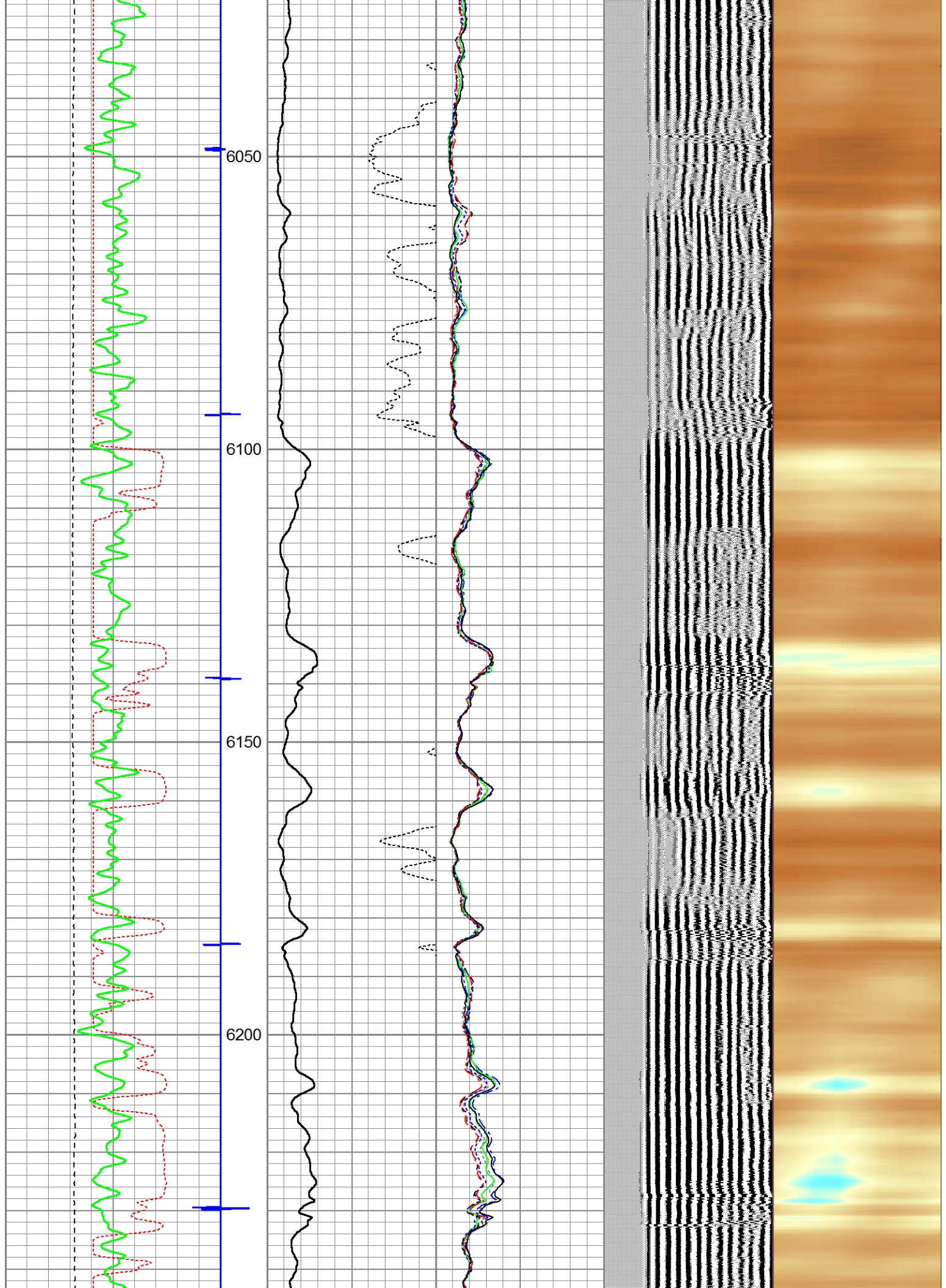


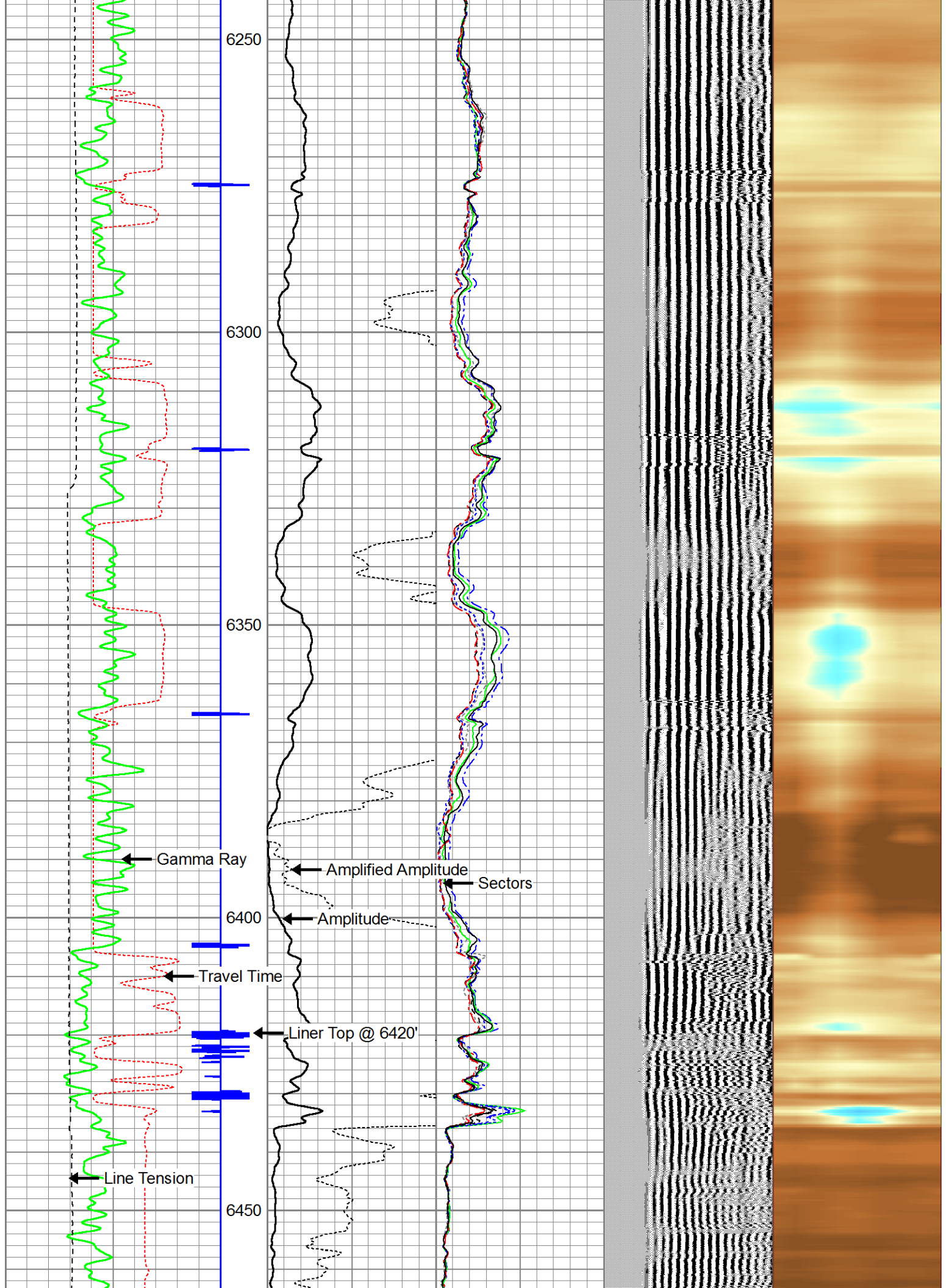


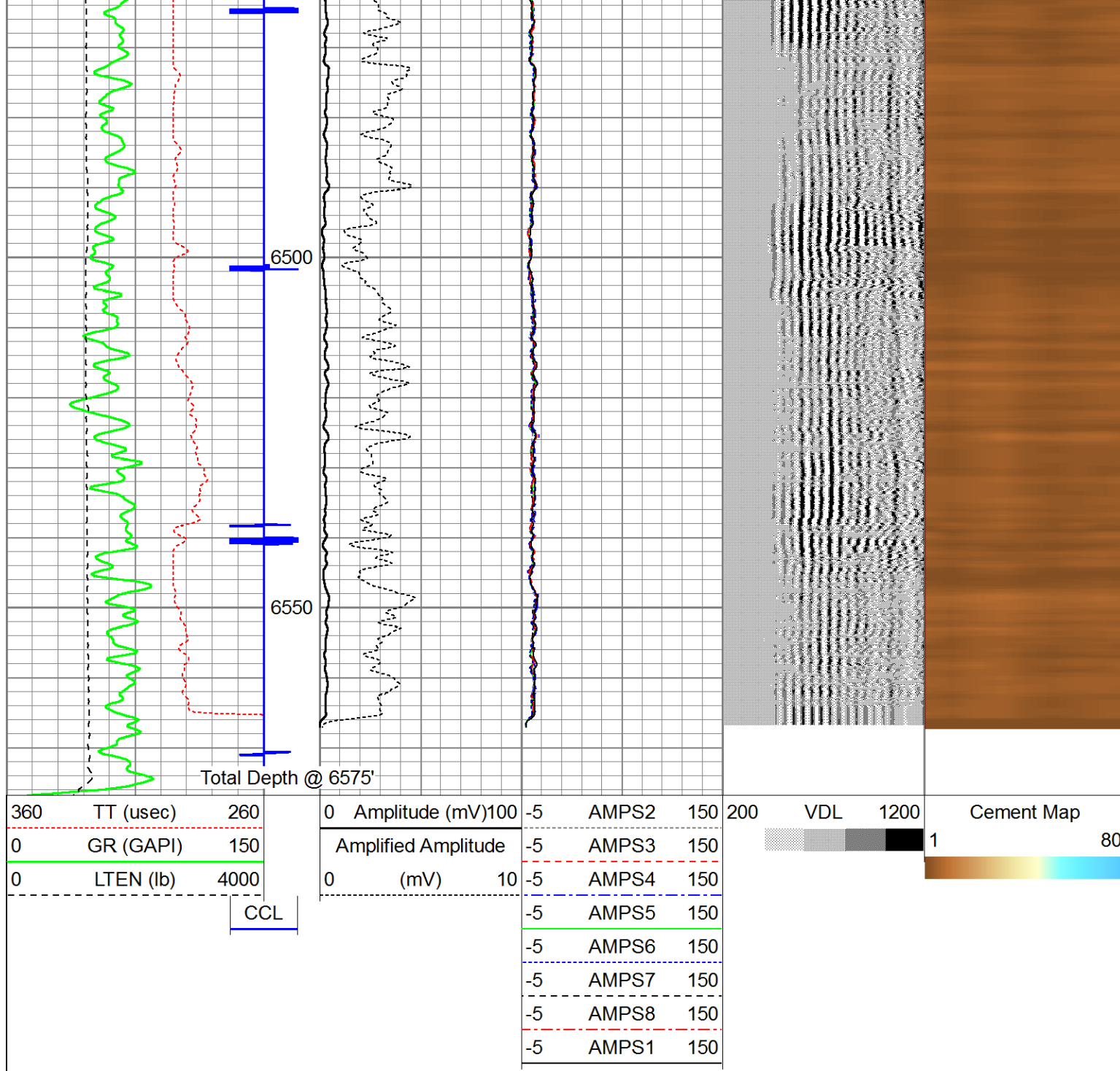






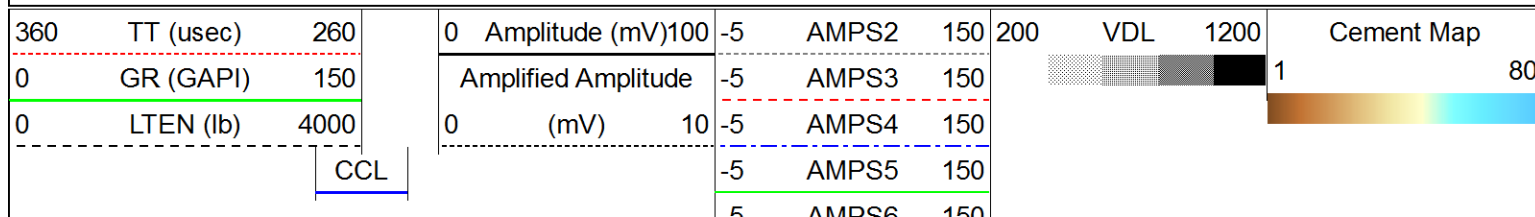




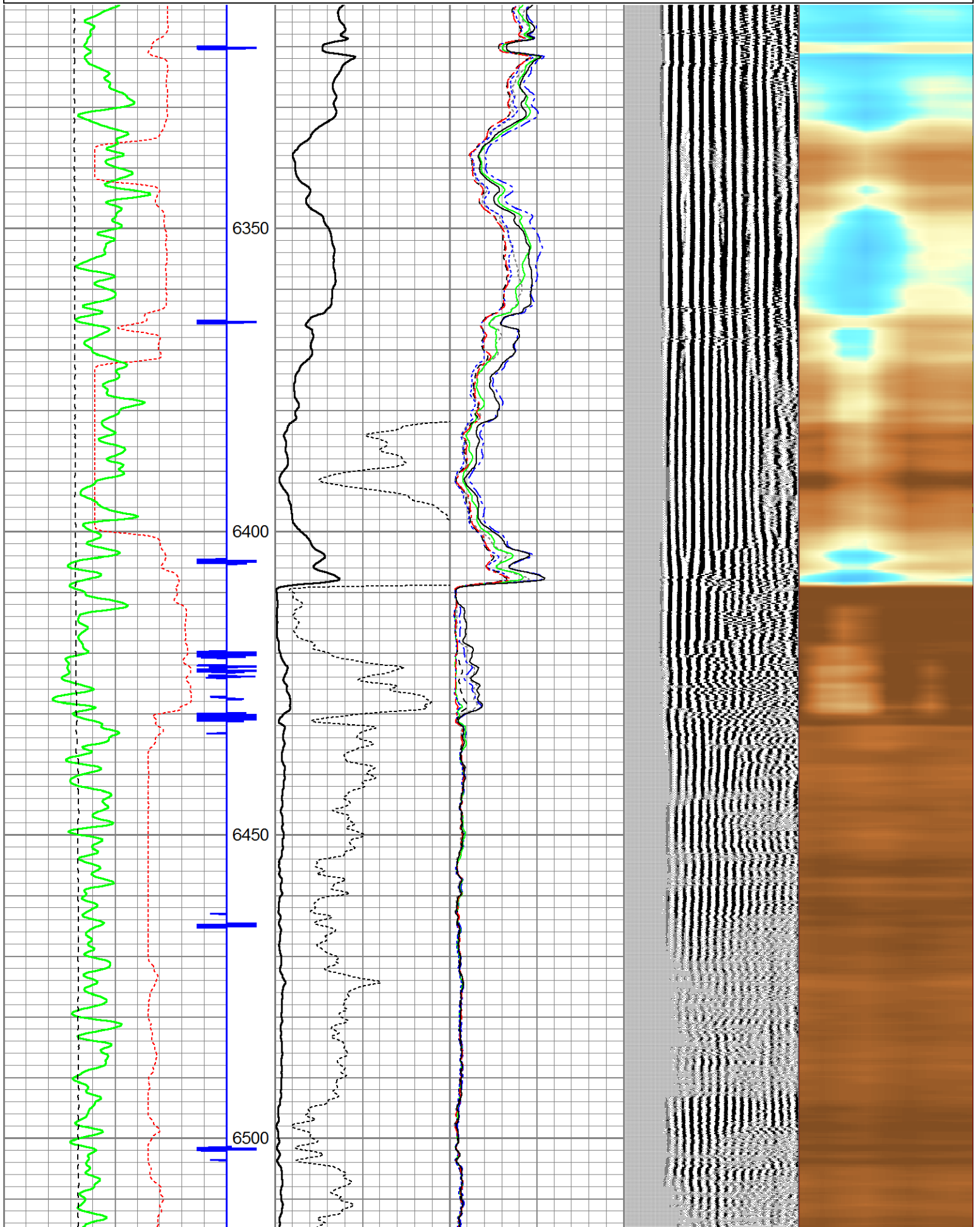


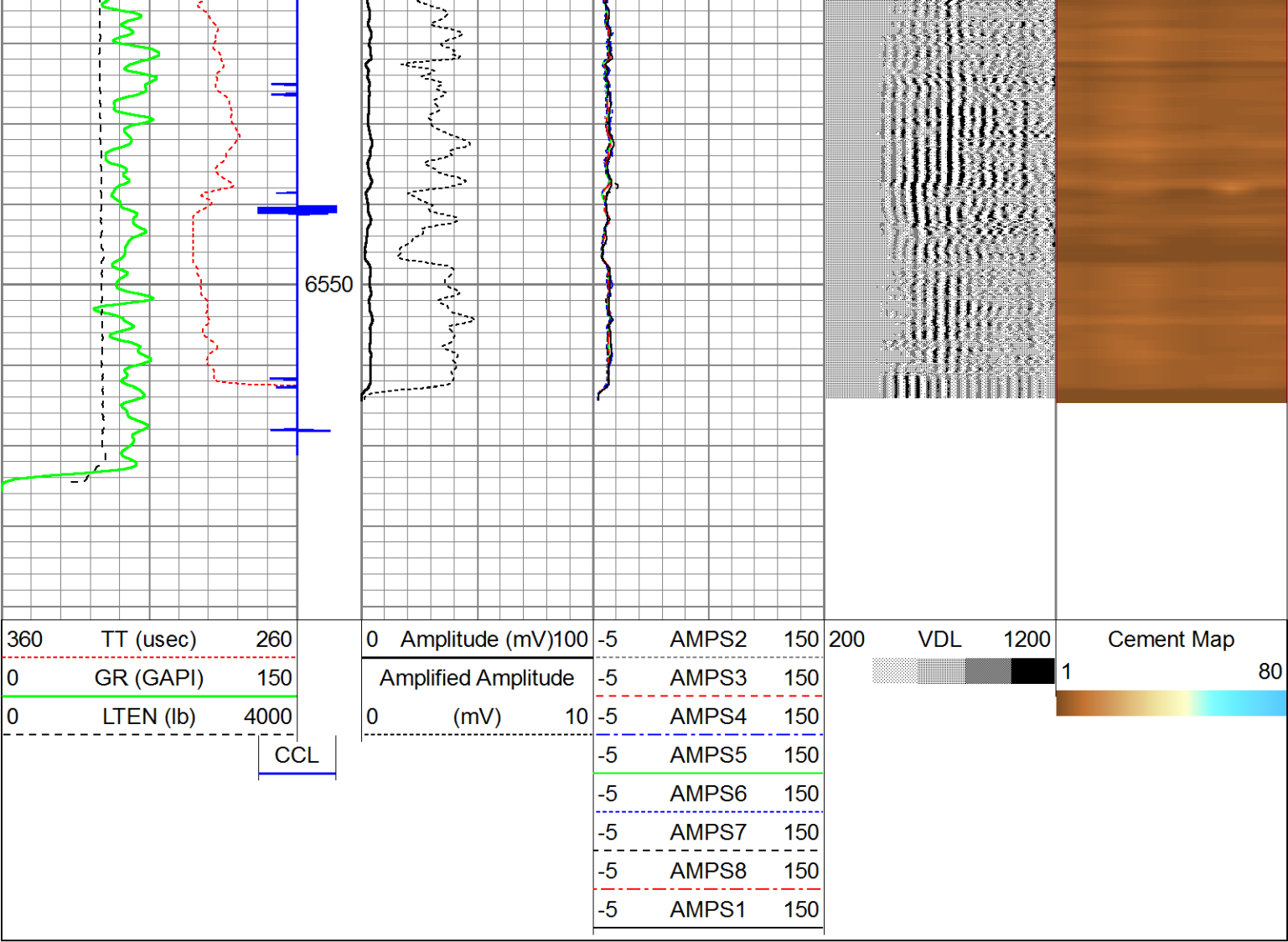
Repeat Pass @ 0 PSI

Database File: bayswater arellano s-10-9hn.db
 Dataset Pathname: pass5
 Presentation Format: anadarko
 Dataset Creation: Fri Jul 17 10:19:21 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240



| | | |
|----|-------|-----|
| -5 | AMPS0 | 150 |
| -5 | AMPS7 | 150 |
| -5 | AMPS8 | 150 |
| -5 | AMPS1 | 150 |





| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|----------|-------------|-----------|--|----------|---------|---------|
| HEADVOLT | 16.25 | | Standard Standard Cable Head | 1.00 | 1.69 | 1.00 |
| | | | PTS275 | 2.83 | 2.75 | |
| | | | RBT-Probe (110217) Probe Radii Bond Tool with Digital Telemetry | 8.92 | 2.75 | 90.00 |
| WVF3FT | 11.58 | | | | | |
| WVFCAL | 11.58 | | | | | |
| WVFS1 | 11.58 | | | | | |

| | | | | | |
|--|-------|--|---|------|------|
| WVFS2 | 11.58 | | | | |
| WVFS3 | 11.58 | | | | |
| WVFS4 | 11.58 | | | | |
| WVFS5 | 11.58 | | | | |
| WVFS6 | 11.58 | | | | |
| WVFS7 | 11.58 | | | | |
| WVFS8 | 11.58 | | | | |
| WVF5FT | 10.58 | | | | |
| | | | PTS275 | 2.83 | 2.75 |
| CCL | 3.50 | | | | |
| | | | GR-275D_INC (275D_with_INC) 2-3/4" GR-CCL with Inclination | 4.50 | 2.75 |
| IntTemp | 2.00 | | | | |
| ACCX | 1.83 | | | | |
| ACCY | 1.83 | | | | |
| ACCZ | 1.83 | | | | |
| GR | 0.83 | | | | |
| Dataset: bayswater arellano s-10-9hn.db: field/well/run1/pass7 Total Length: 20.08 ft Total Weight: 91.00 lb O.D. 2.75 in | | | | | |

| | | |
|--|---------|-----------------------|
| | Company | Bayswater Exploration |
| | Well | Arellano S-10-9HN |
| | Field | Wattenberg |
| | County | Weld |
| | State | Colorado |