



RADIAL BOND LONG
GAMMA RAY
CCL

| | | | | | | | |
|------------------------|--------|-----------------------|--------|------|---------|------|--------|
| Company | | WARD PETROLEUM CORP. | | | | | |
| Well | | RITCHEY 26-1-19HC | | | | | |
| Field | | WATTENBERG | | | | | |
| County | | WELD | | | | | |
| State | | COLORADO | | | | | |
| Location: | | API # : 05-123-44745 | | | | | |
| Permanent Datum | | SEC 26 TWP 1N RGE 66W | | | | | |
| Log Measured From | | GL KB 20' | | | | | |
| Drilling Measured From | | KB | | | | | |
| Other Services | | Elevation 5154' | | | | | |
| NW/NW | | K.B. 5174' | | | | | |
| | | D.F. 5173' | | | | | |
| | | G.L. 5154' | | | | | |
| Date | | 7-19-2017 | | | | | |
| Run Number | | ONE | | | | | |
| Depth Driller | | 12586' | | | | | |
| Depth Logger | | 7840' | | | | | |
| Bottom Logged Interval | | 7840' | | | | | |
| Top Log Interval | | SURFACE | | | | | |
| Open Hole Size | | | | | | | |
| Type Fluid | | WATER | | | | | |
| Density / Viscosity | | 1 | | | | | |
| Max. Recorded Temp. | | 224' | | | | | |
| Estimated Cement Top | | 284' | | | | | |
| Time Well Ready | | NA | | | | | |
| Time Logger on Bottom | | NA | | | | | |
| Equipment Number | | W-062 | | | | | |
| Location | | WINDSOR, COLORADO | | | | | |
| Recorded By | | A.STEERMAN | | | | | |
| Witnessed By | | | | | | | |
| Borehole Record | | Tubing Record | | | | | |
| Run Number | Bit | From | To | Size | Weight | From | To |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Casing Record | Size | | Wgt/Ft | | Top | | Bottom |
| Surface String | 9.625" | | 36# | | SURFACE | | 1476' |
| Prot. String | | | | | | | |
| Production String | 5.5" | | 20# | | SURFACE | | 12541' |
| Liner | | | | | | | |

<<< 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

RAND CBL TO VERIFY CEMENT BOND
CORRELATED TO MARKER JOINT @7001'

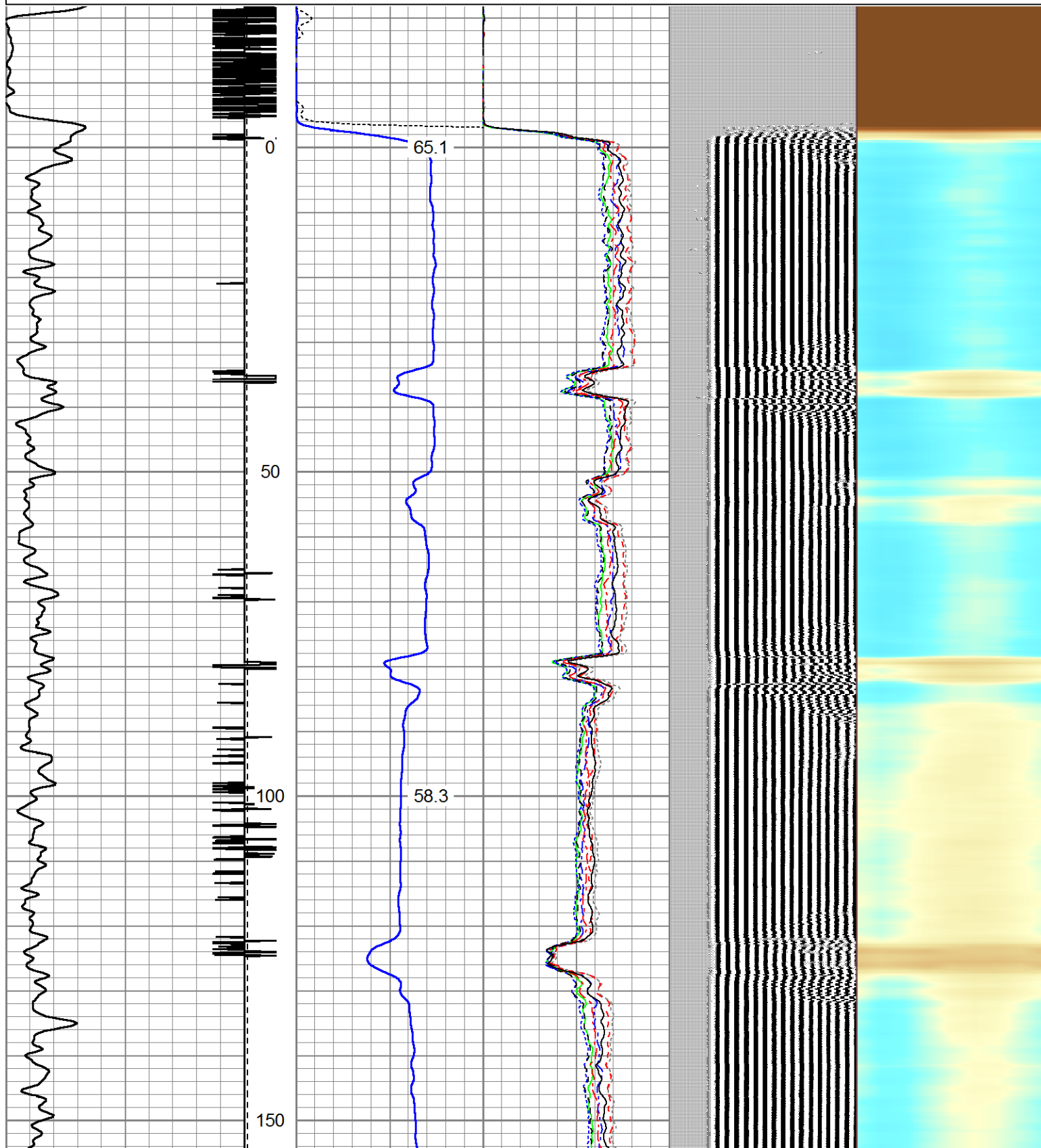
THANK YOU FOR USING CUTTERS WIRELINE

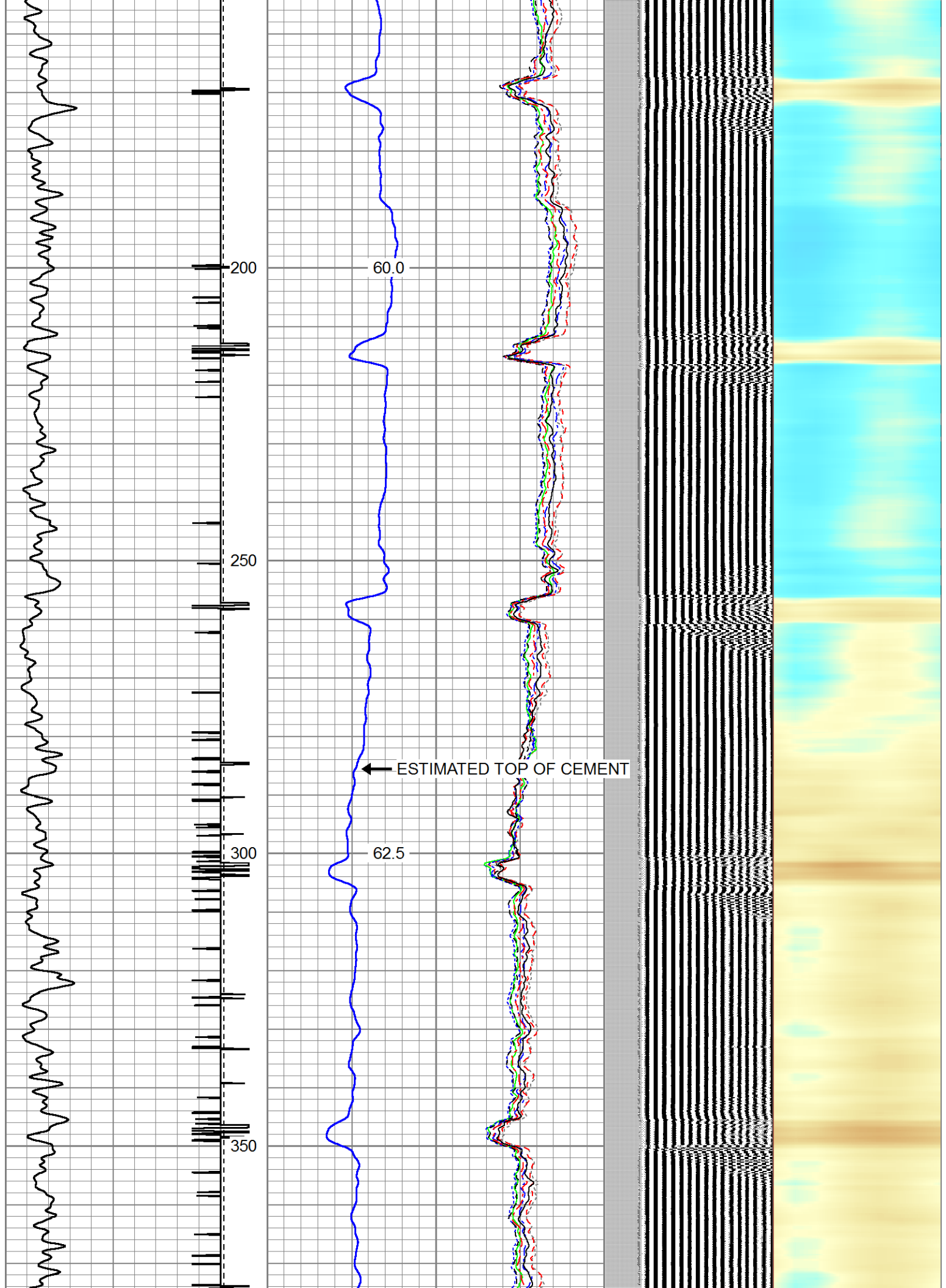
| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|-------------|----------|---------|---------|
| | | | | | | |

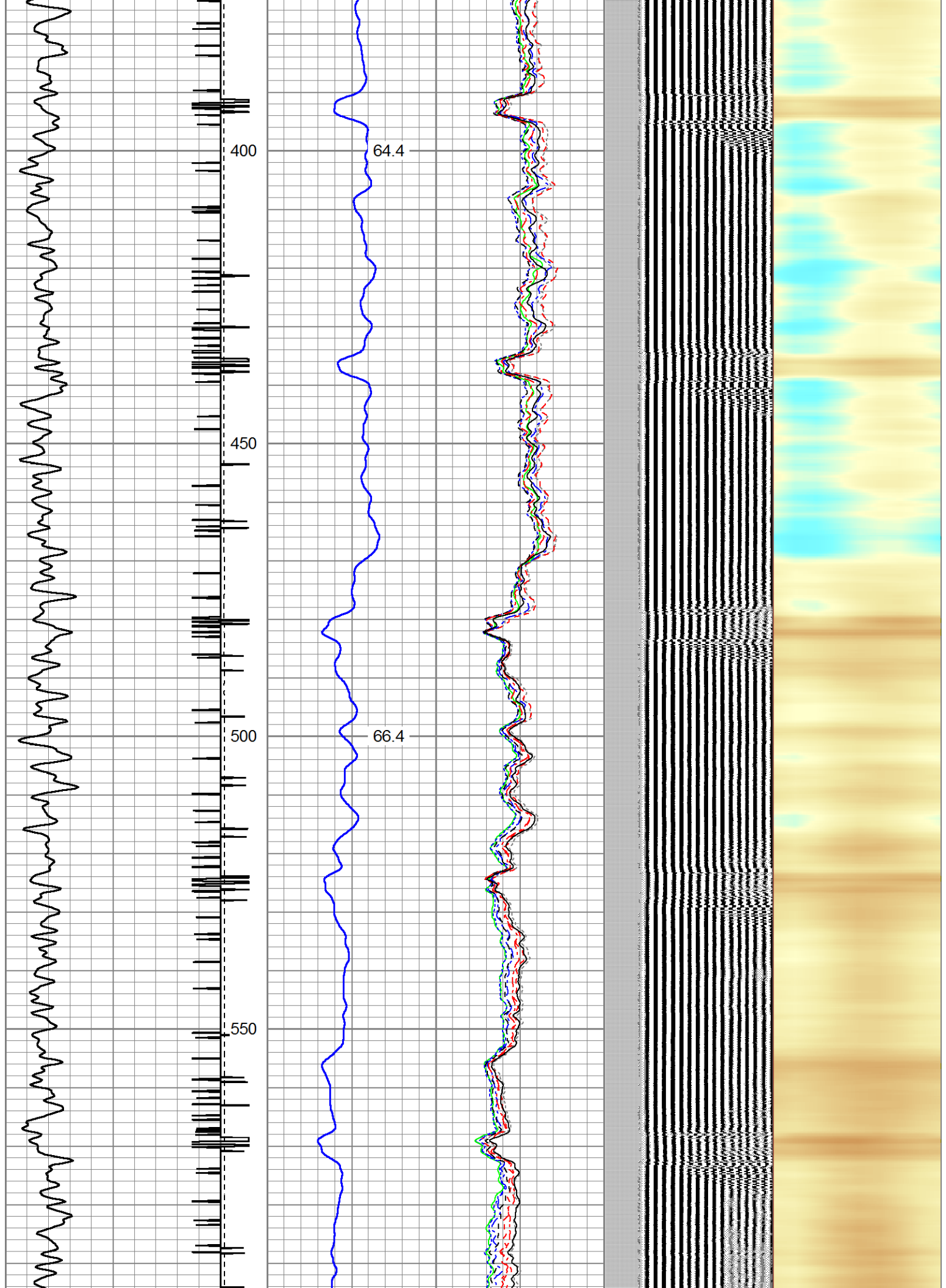
| | | | | | | |
|---|------|--|--|------|------|-------|
| WVF3FT | 9.44 |  | RBT-Probe (060112_55) Probe 2.75" Radii Bond Tool | 8.75 | 2.75 | 90.00 |
| WVFCAL | 9.44 | | | | | |
| WVFS1 | 9.44 | | | | | |
| WVFS2 | 9.44 | | | | | |
| WVFS3 | 9.44 | | | | | |
| WVFS4 | 9.44 | | | | | |
| WVFS5 | 9.44 | | | | | |
| WVFS6 | 9.44 | | | | | |
| WVFS7 | 9.44 | | | | | |
| WVFS8 | 9.44 | | | | | |
| WVF5FT | 8.44 | | | | | |
| CCL | 4.75 | | | | | |
| GR | 2.25 | | GR-Probe (060109) Probe 2.75" 4 Channel Pulse | 4.00 | 2.75 | 30.00 |
| TEMP | 0.08 | | TEMP-1.375TEMP (060110) Temperature Tool | 1.25 | 1.38 | 30.00 |
| Dataset: ritchey 26-1-19hc.db: field/well/run1/pass7.2 Total Length: 14.00 ft Total Weight: 150.00 lb O.D. 2.75 in | | | | | | |

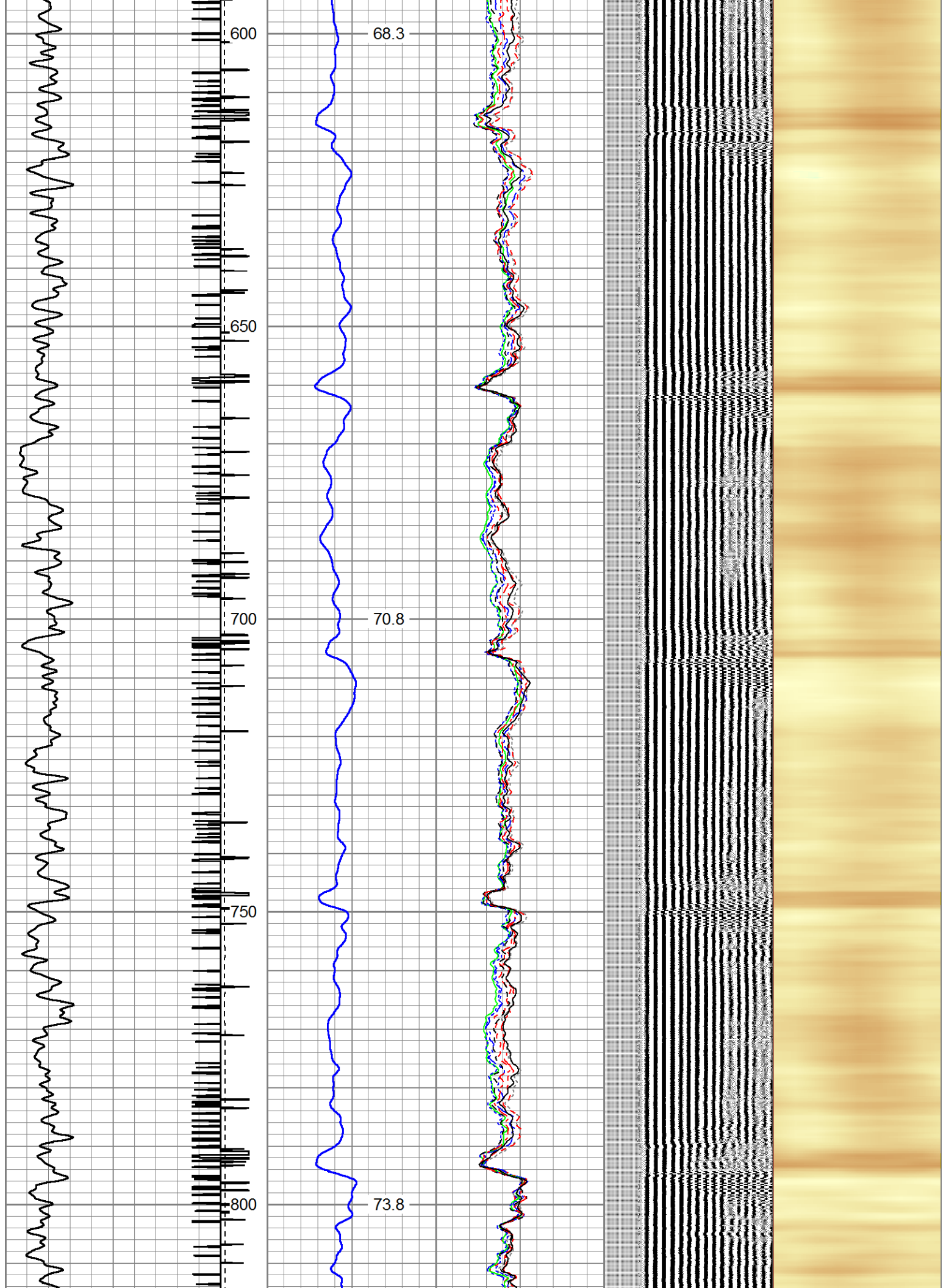
Database File: ritchey 26-1-19hc.db
Dataset Pathname: pass7.2
Presentation Format: rbl55
Dataset Creation: Wed Jul 19 14:13:47 2017 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

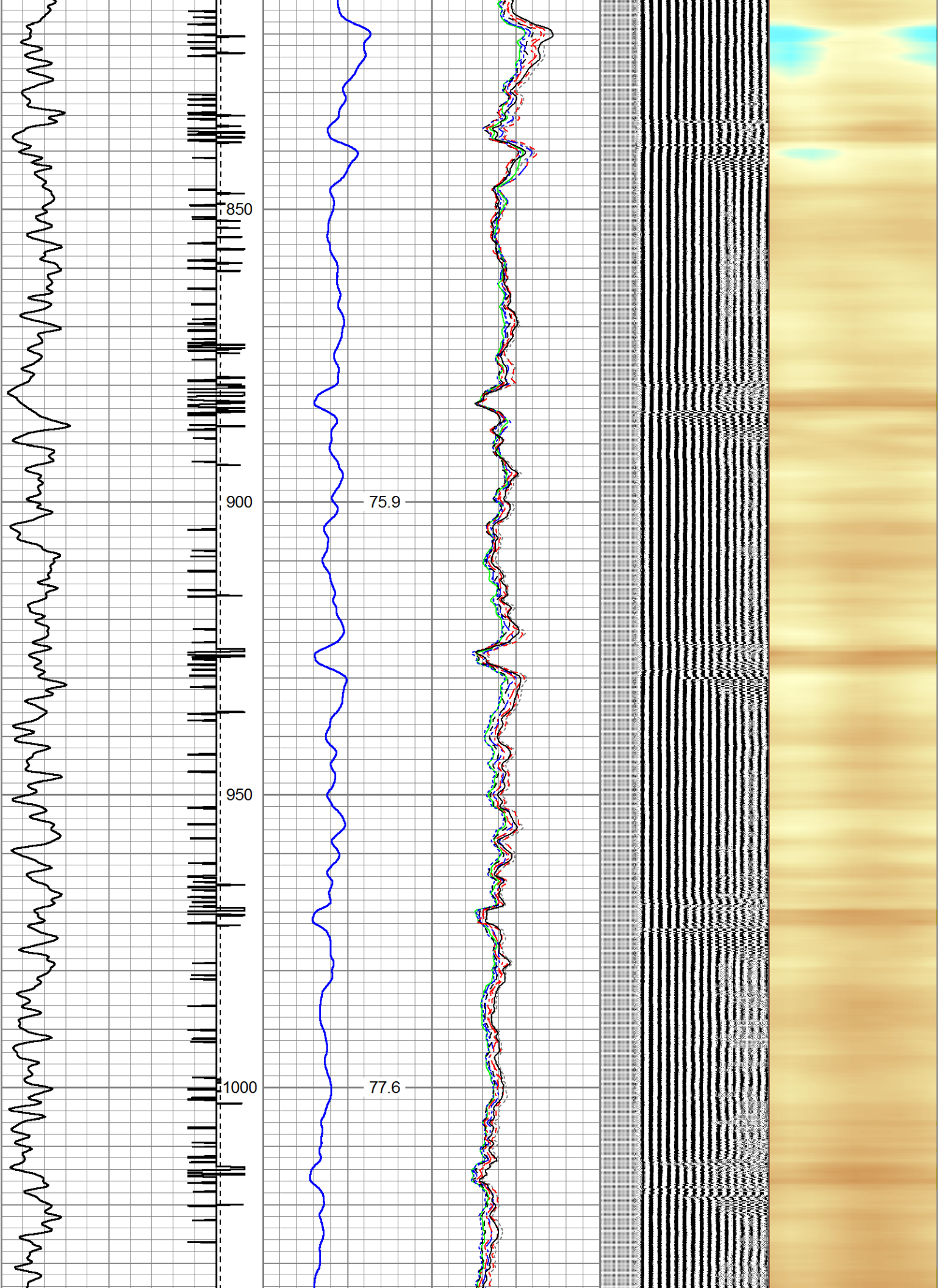
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|-----|-----------|-----|------|-----|---------------------|------|----|-------|-------|-----|-----|------|---|------------|-----|
| 325 | TT (usec) | 225 | LTEN | 0 | Amplitude (mV) | 100 | 0 | AMPS2 | 100 | 200 | VDL | 1200 | | Cement Map | |
| 0 | GR (GAPI) | 250 | (lb) | | Amplified Amplitude | | 0 | AMPS3 | 100 | | | | 1 | | 100 |
| | | | CCL | 000 | 0 | (mV) | 10 | 0 | AMPS4 | 100 | | | | | |
| | | | | | TEMP | | | 0 | AMPS5 | 100 | | | | | |
| | | | | | (degF) | | | 0 | AMPS6 | 100 | | | | | |
| | | | | | | | | 0 | AMPS7 | 100 | | | | | |
| | | | | | | | | 0 | AMPS8 | 100 | | | | | |
| | | | | | | | | 0 | AMPS1 | 100 | | | | | |

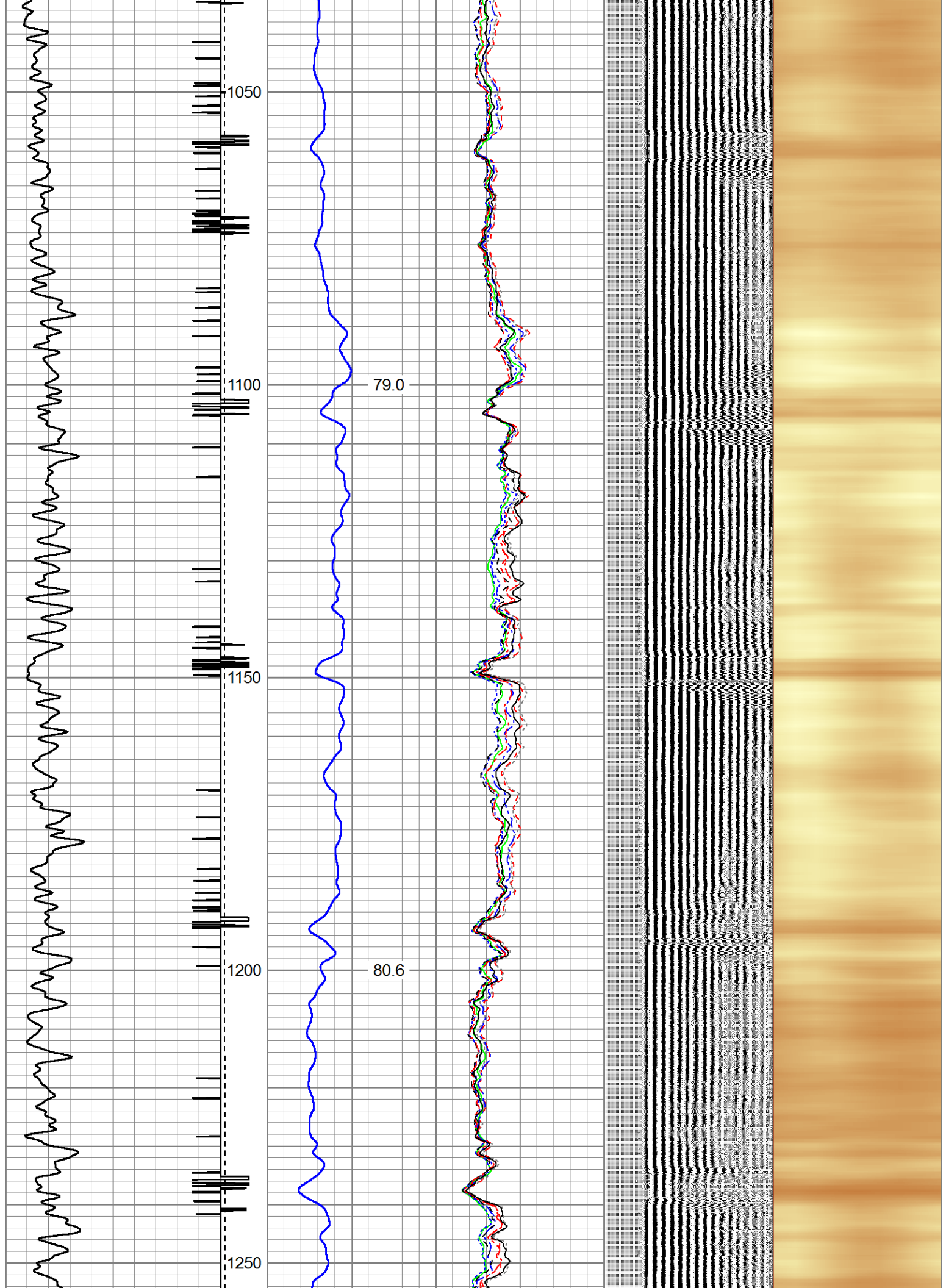


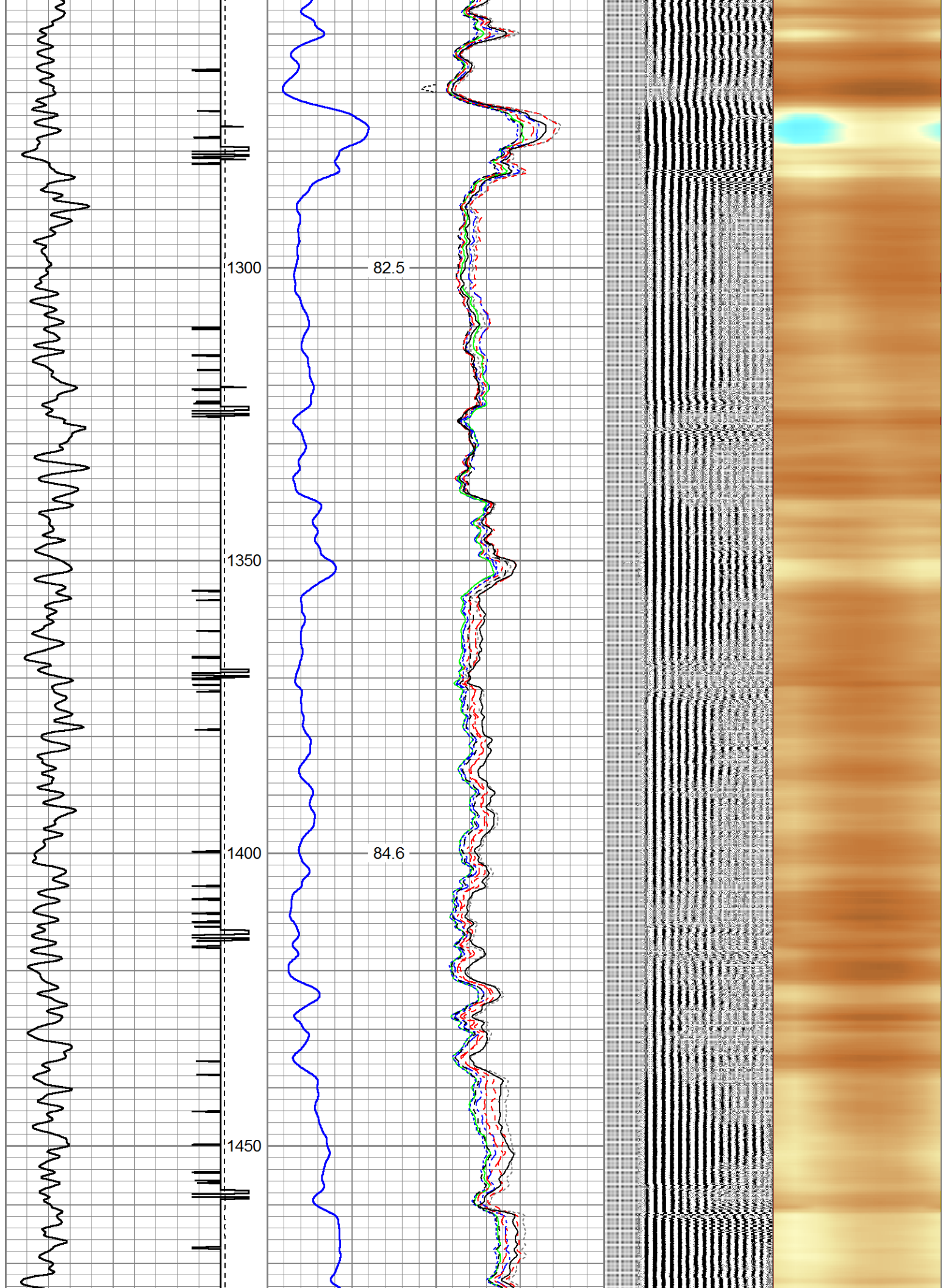


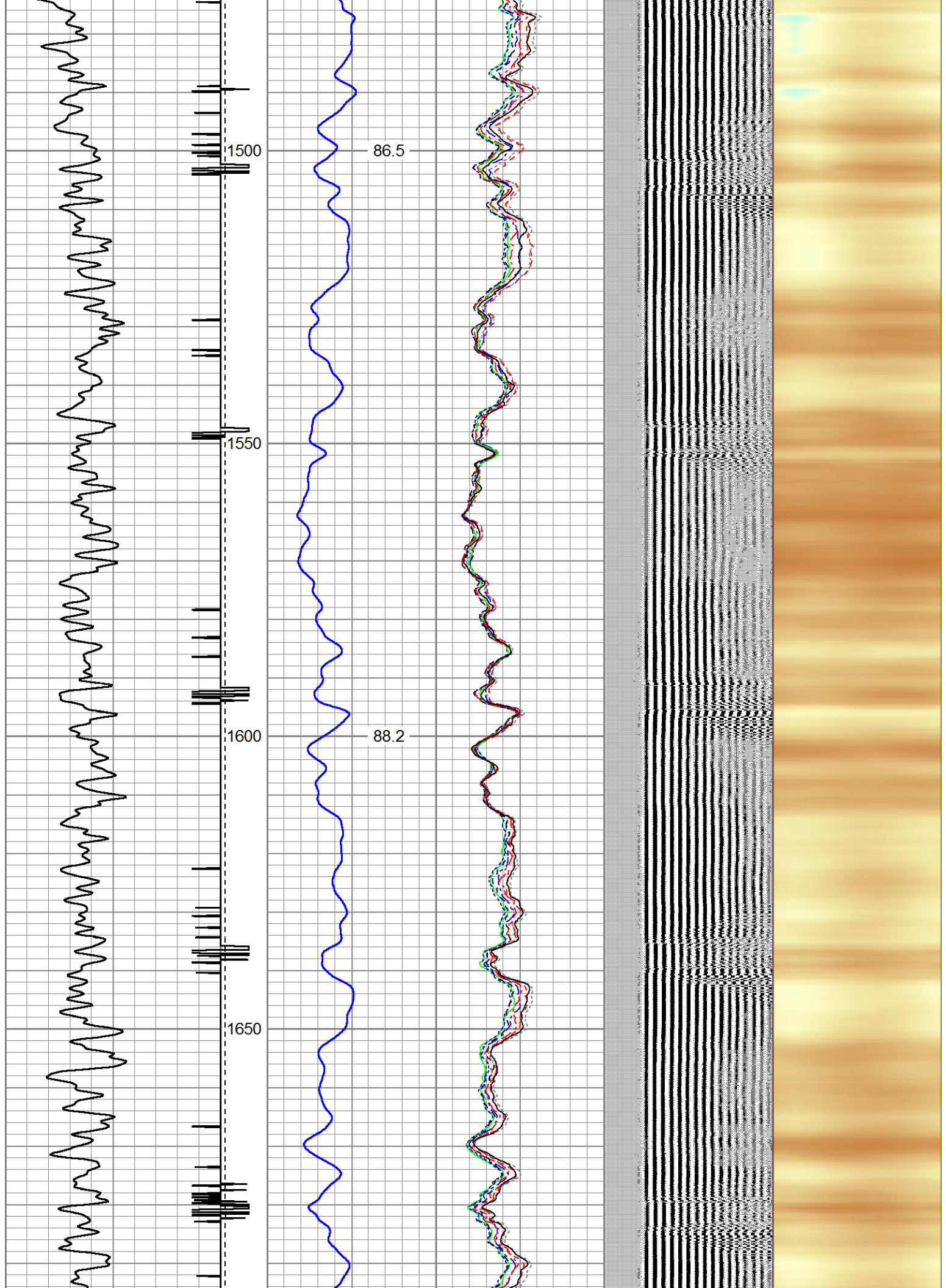


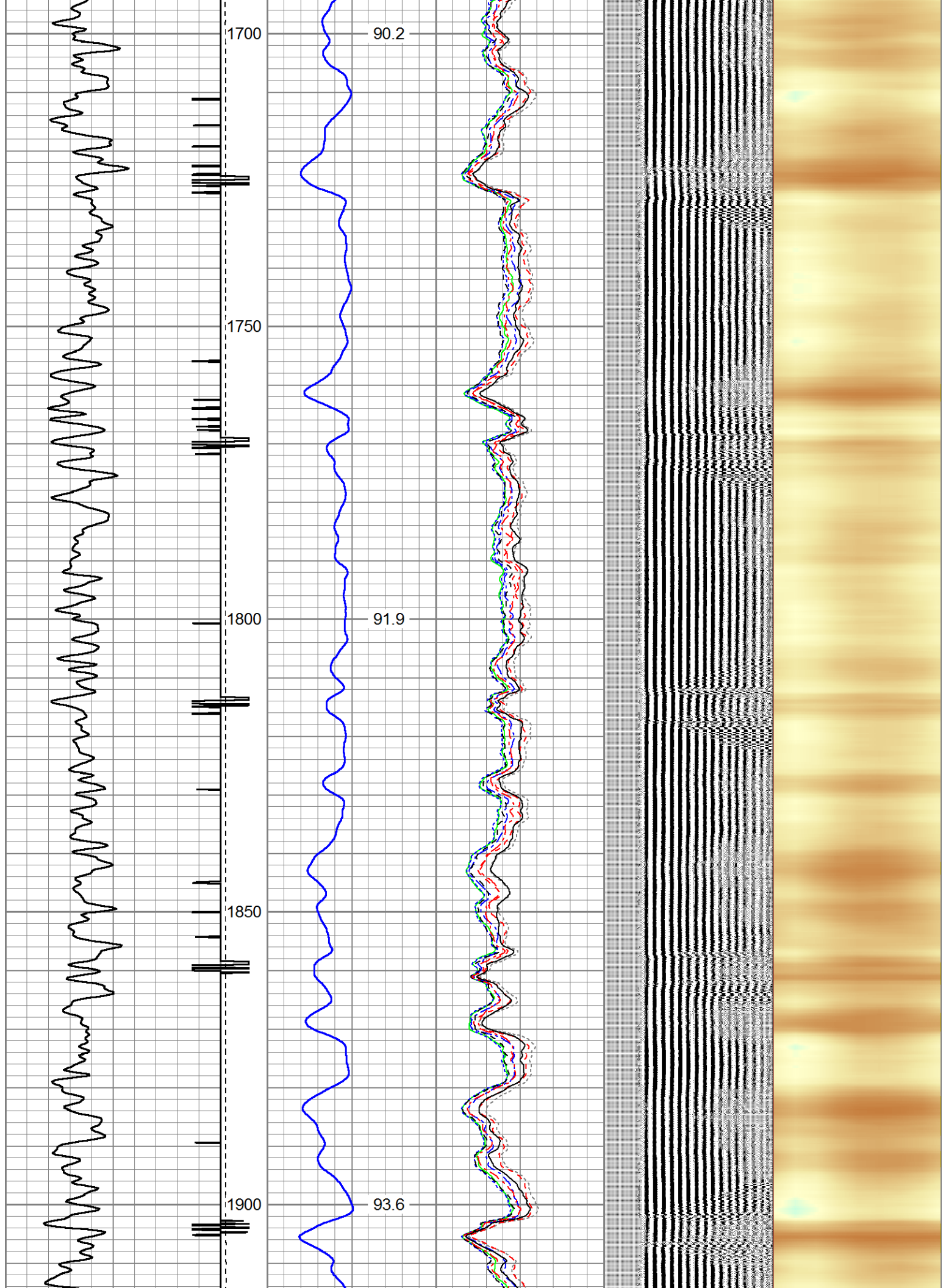


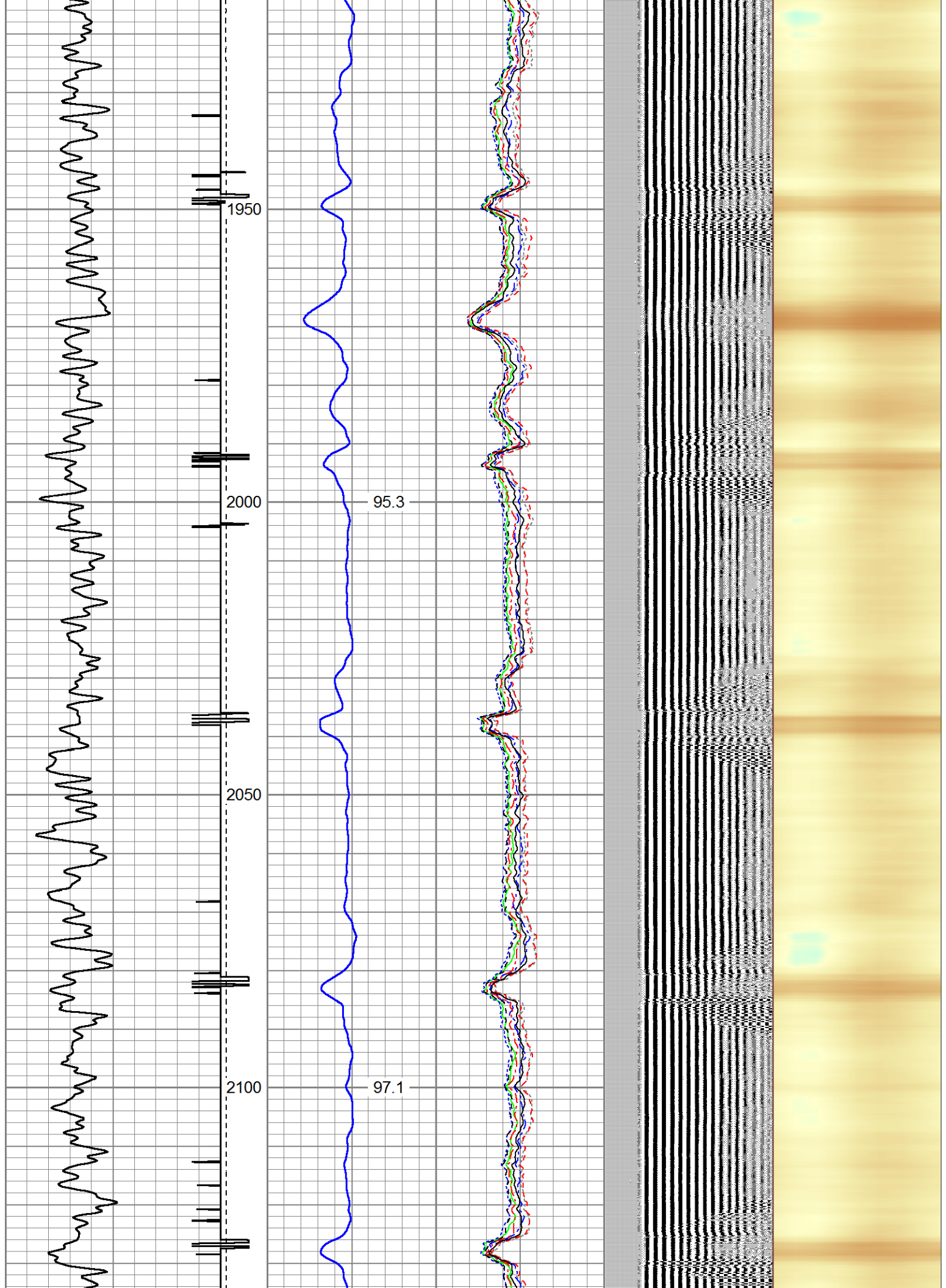


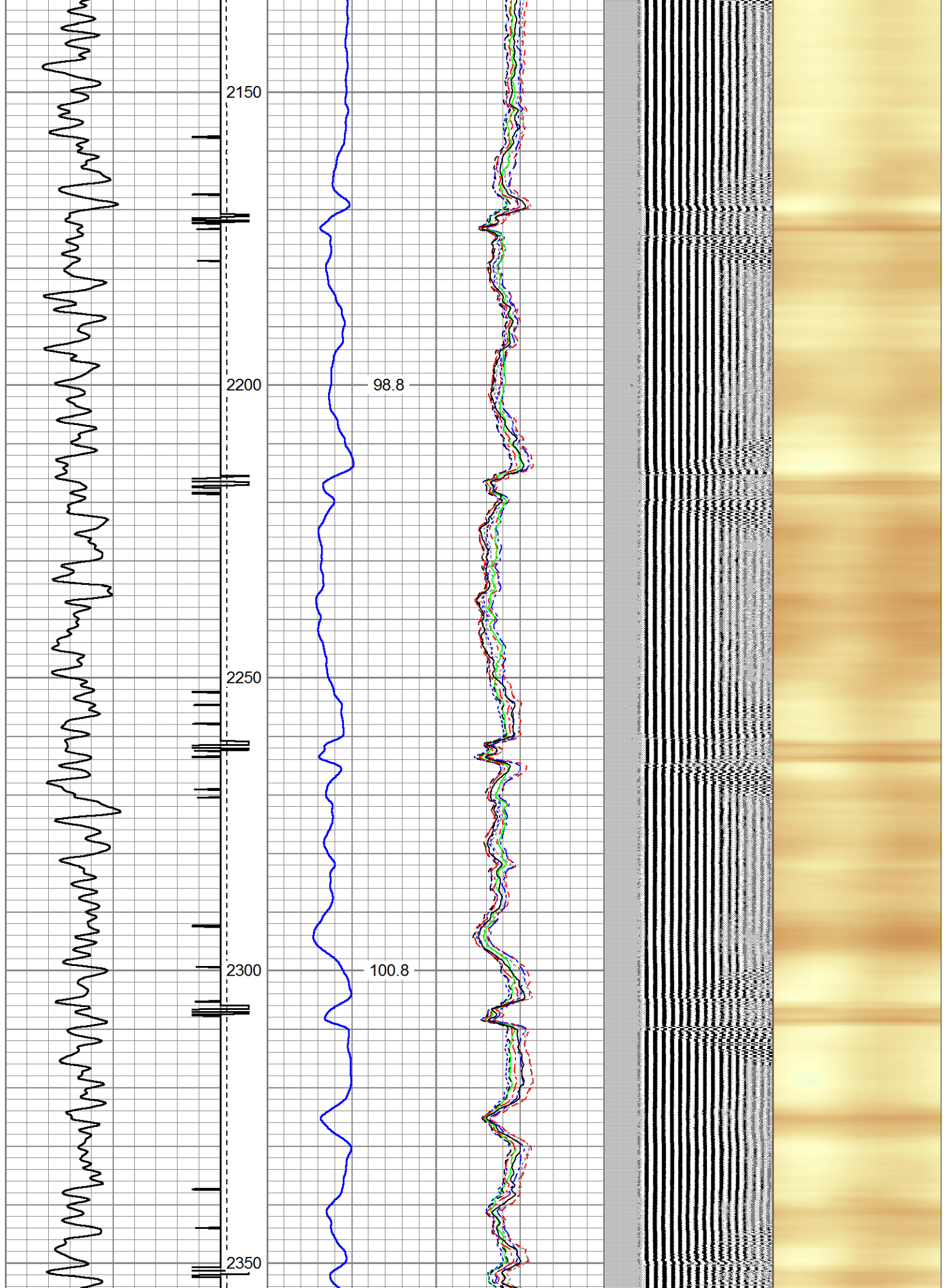


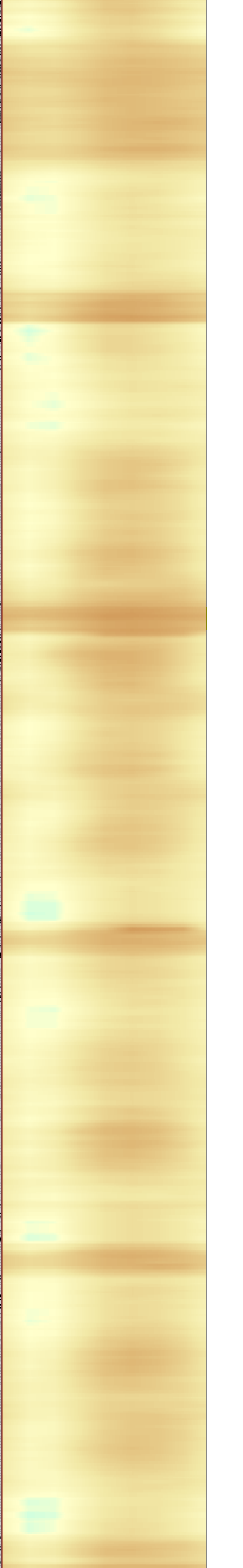
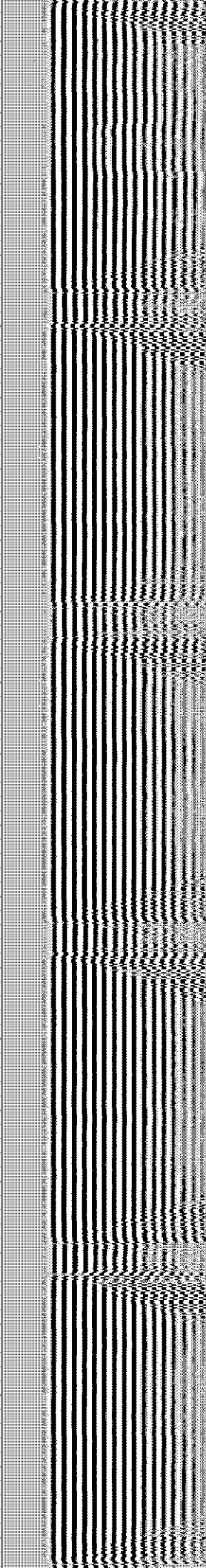
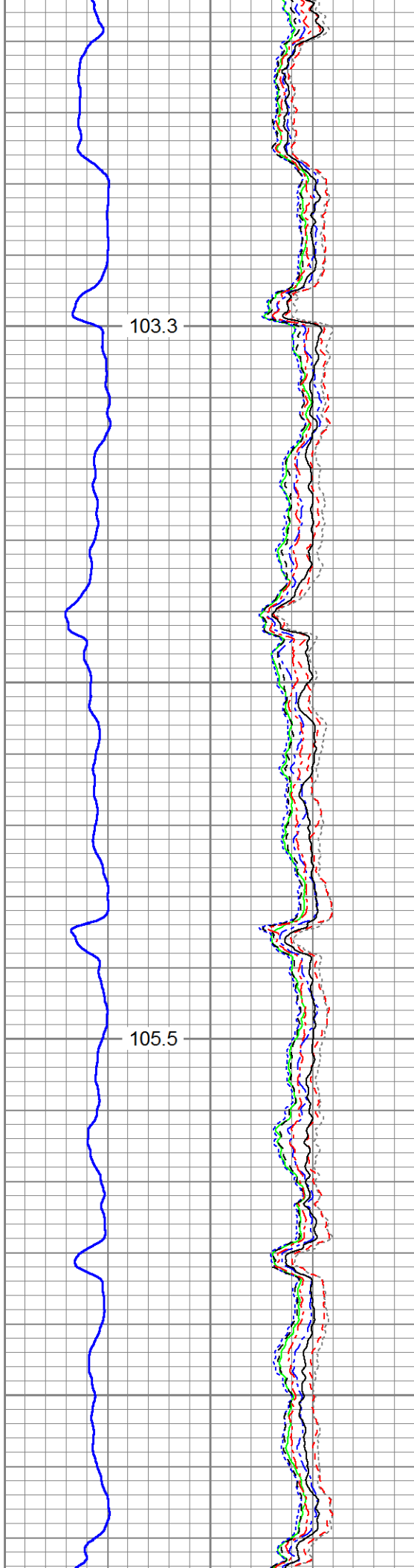
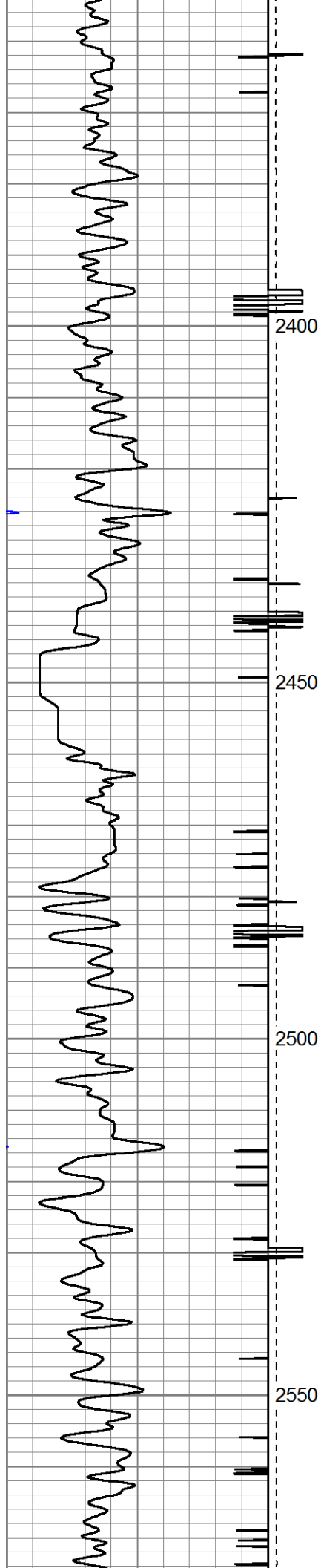


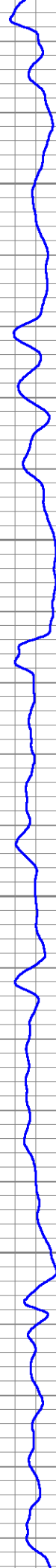
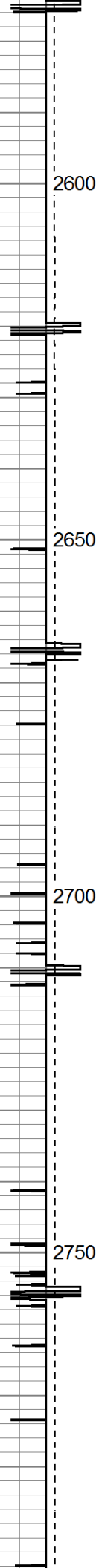






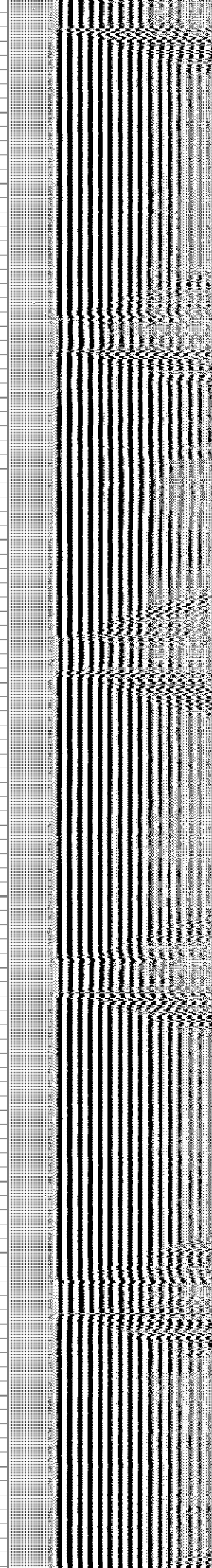
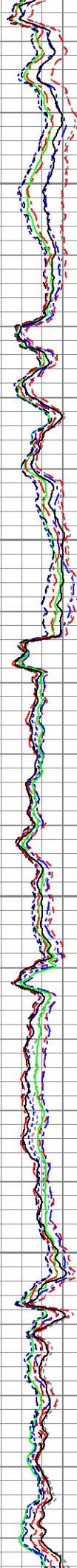


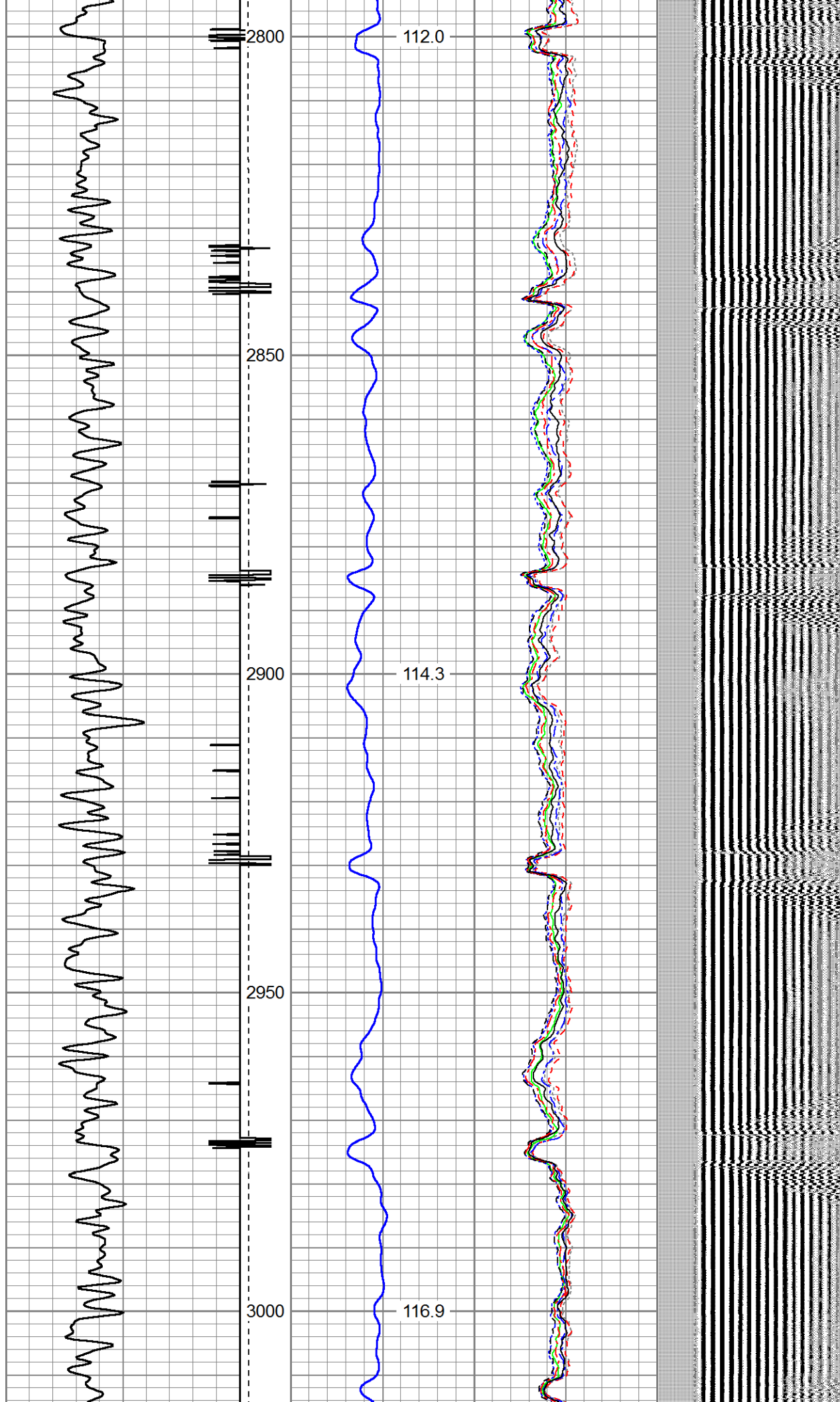


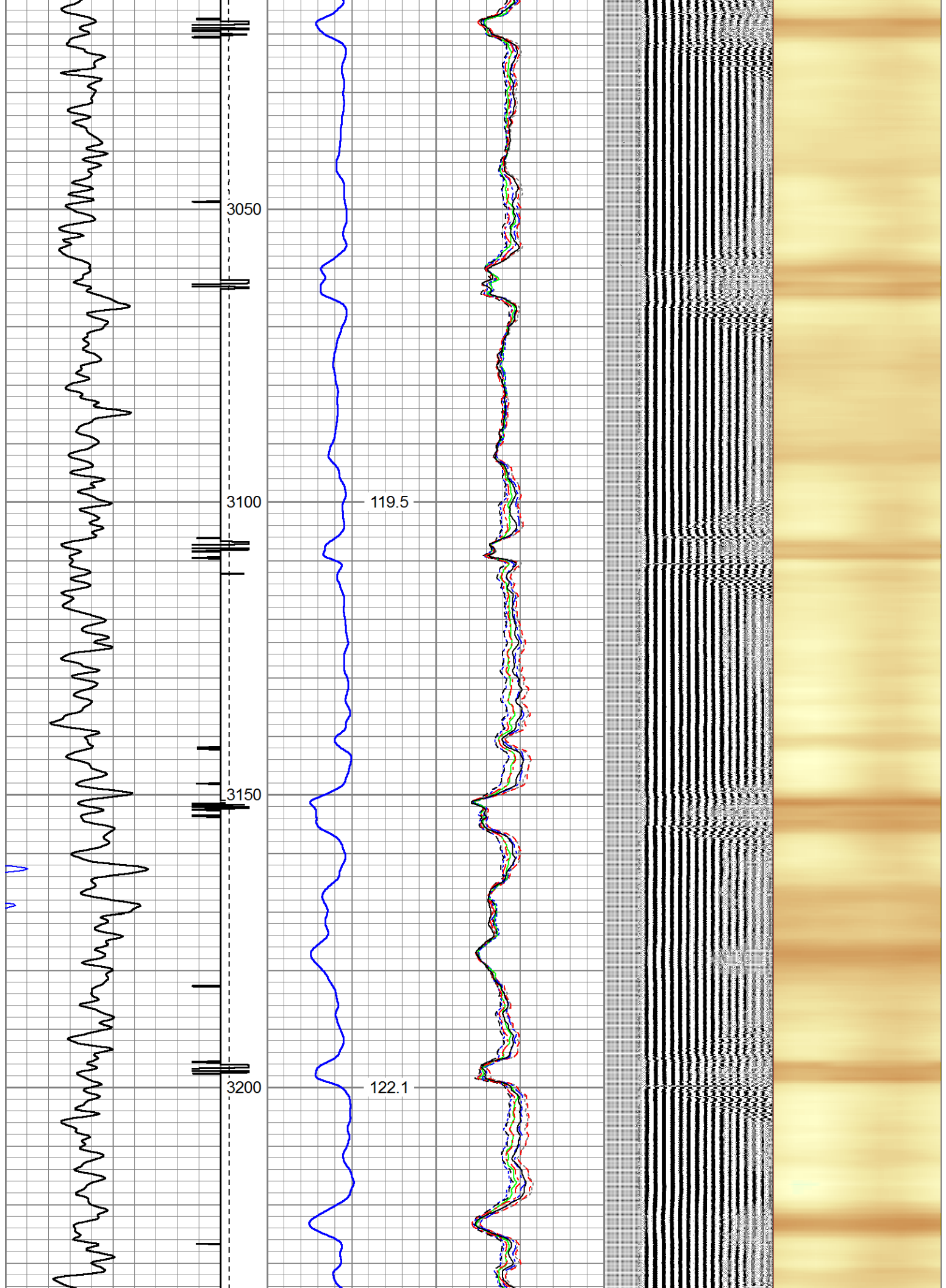


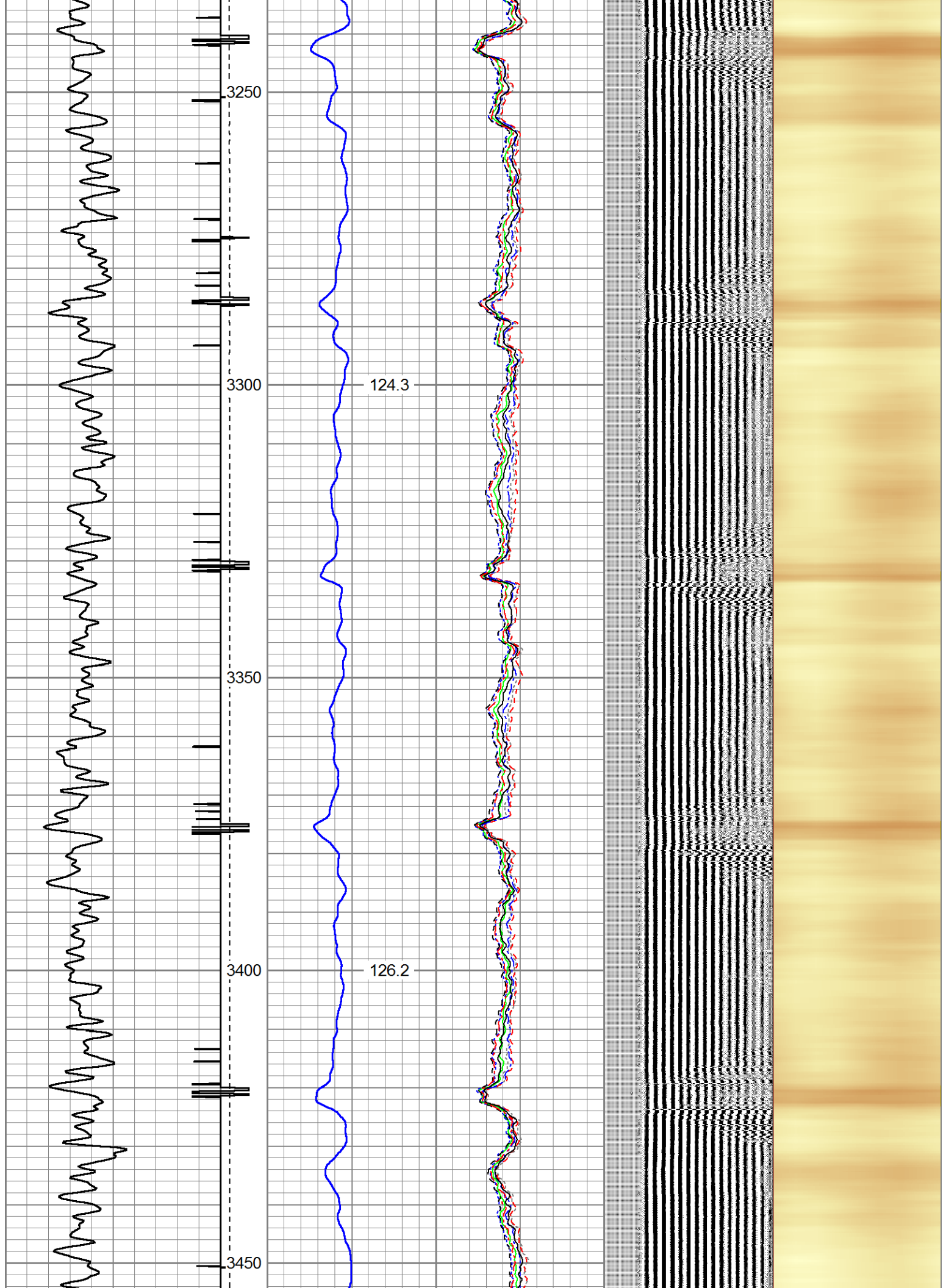
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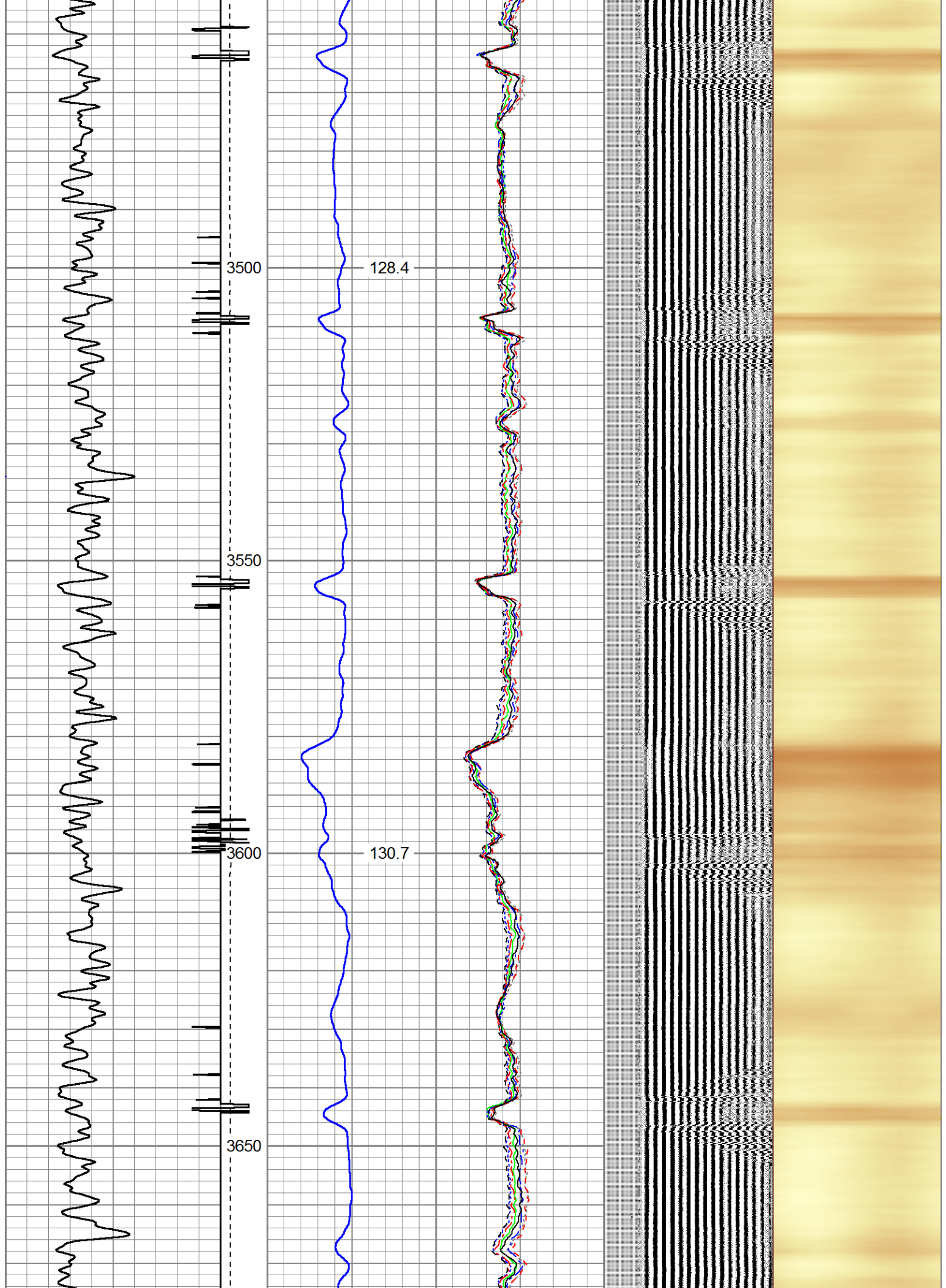
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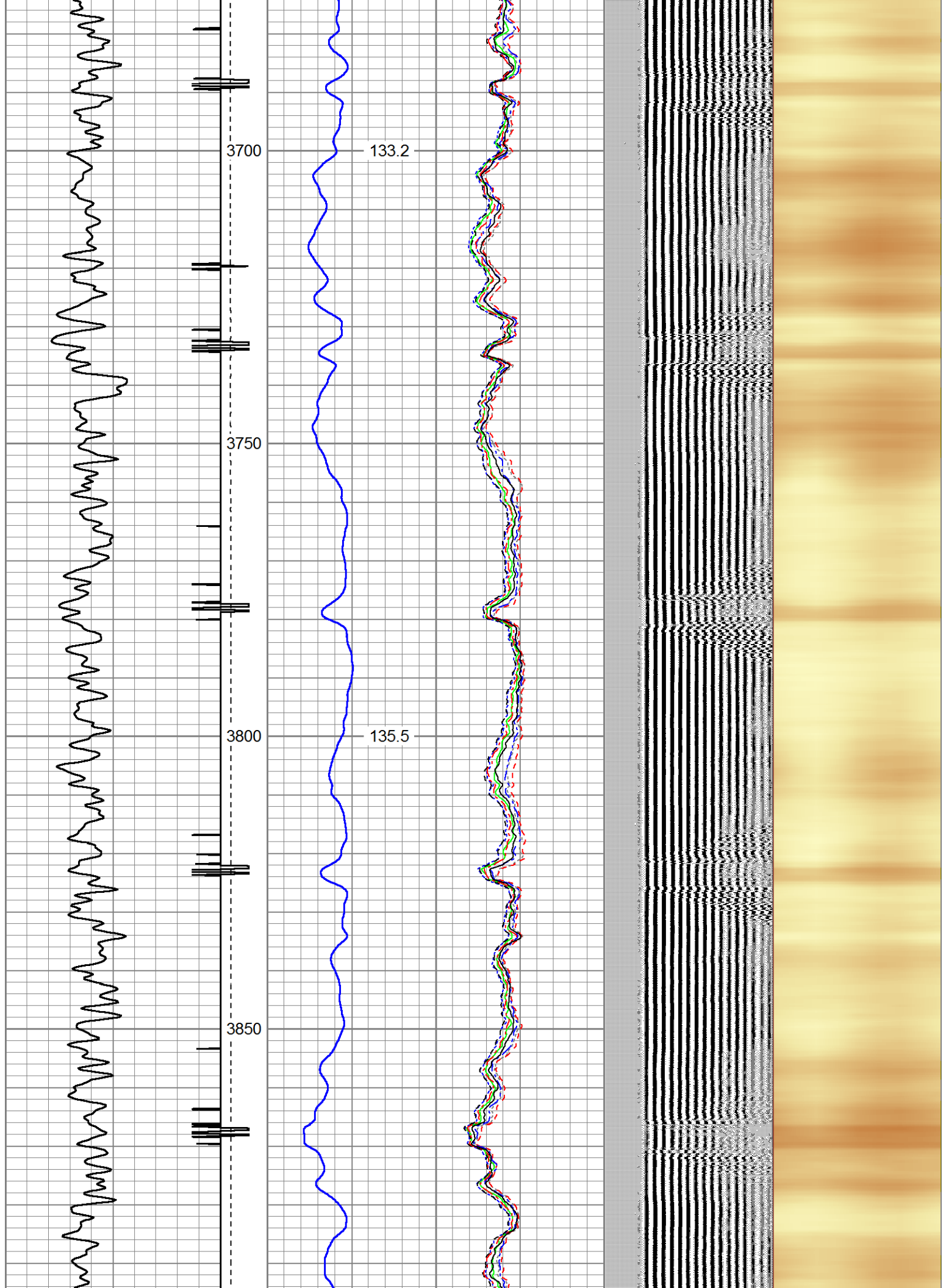


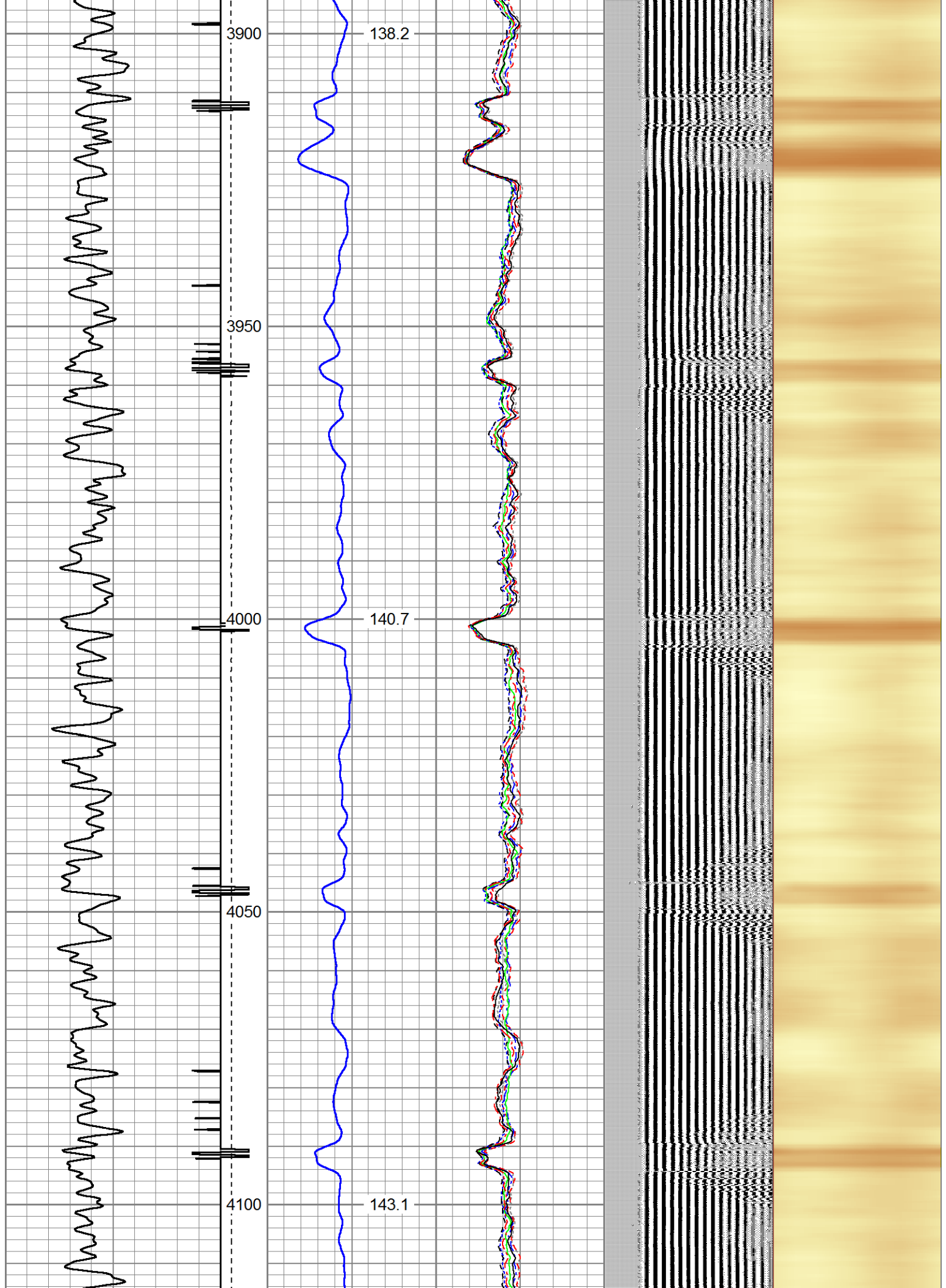


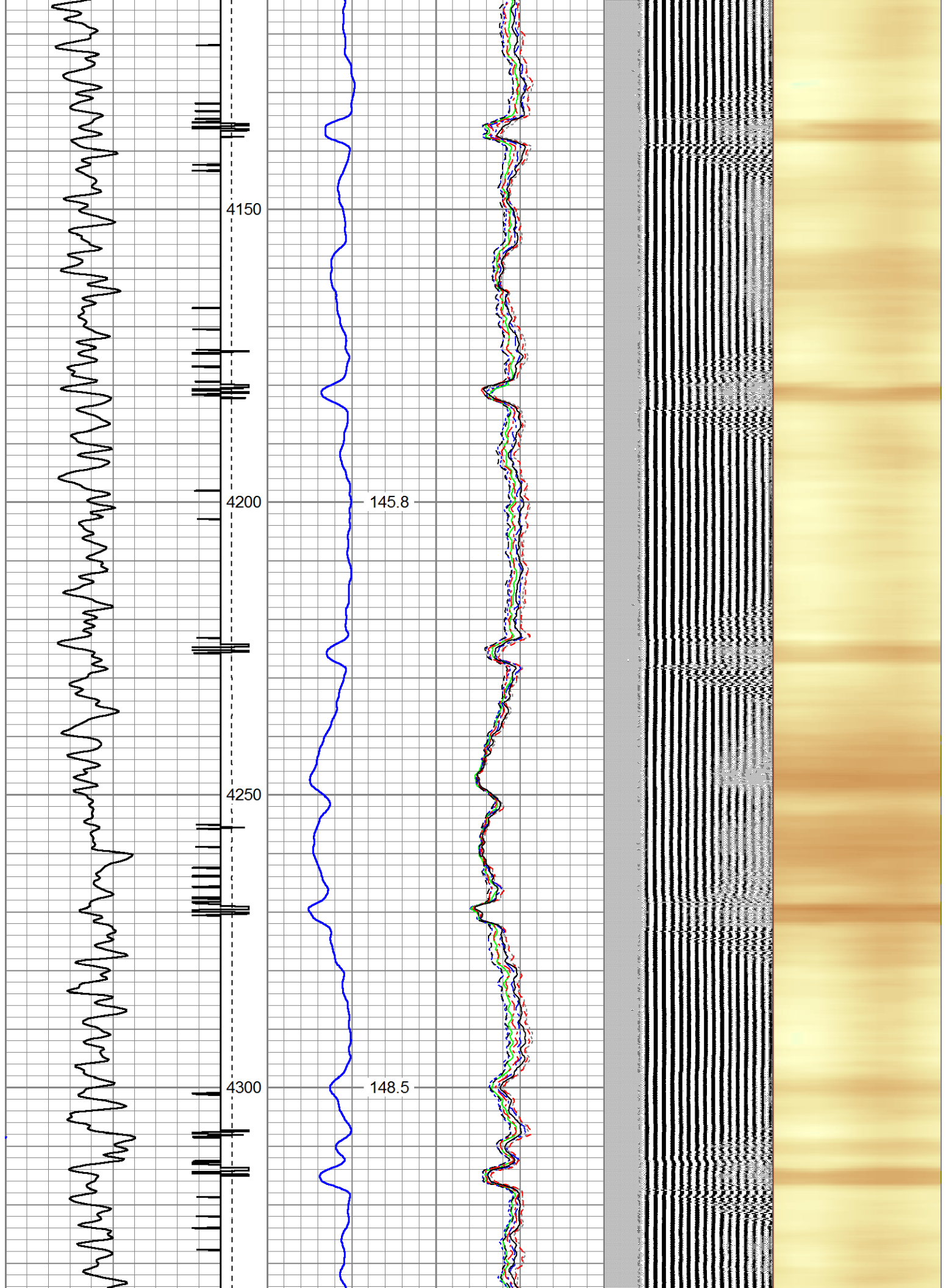


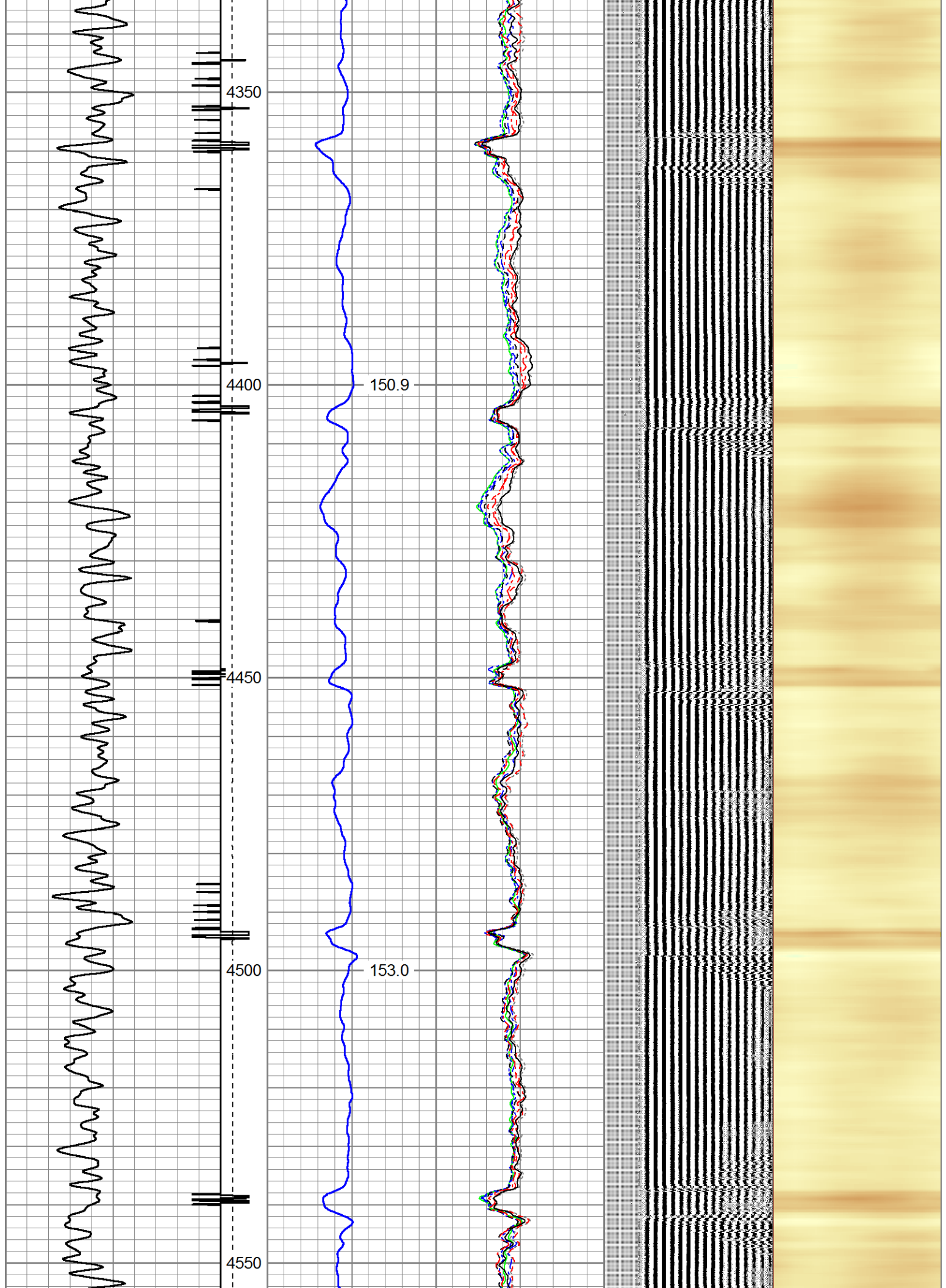


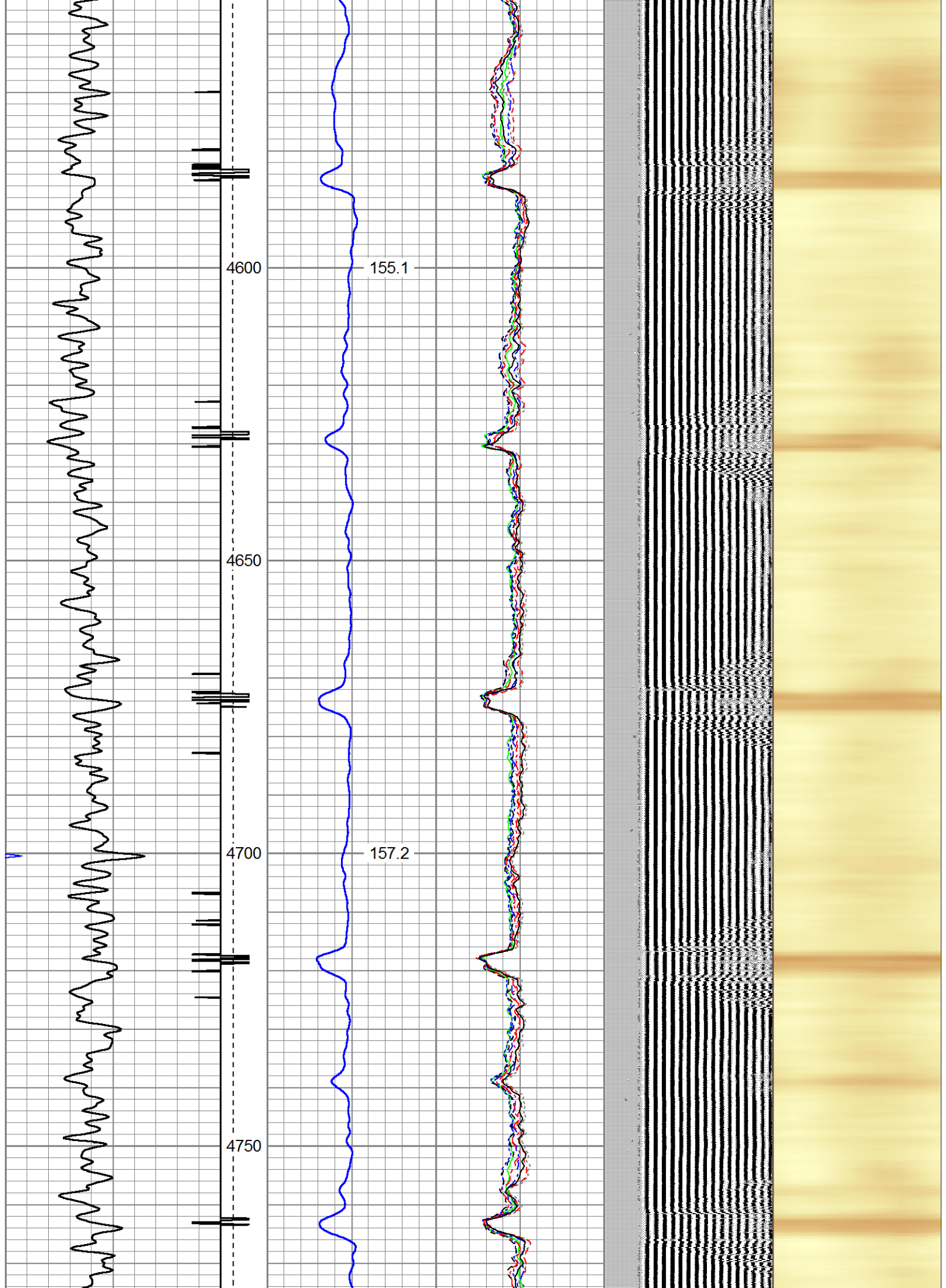


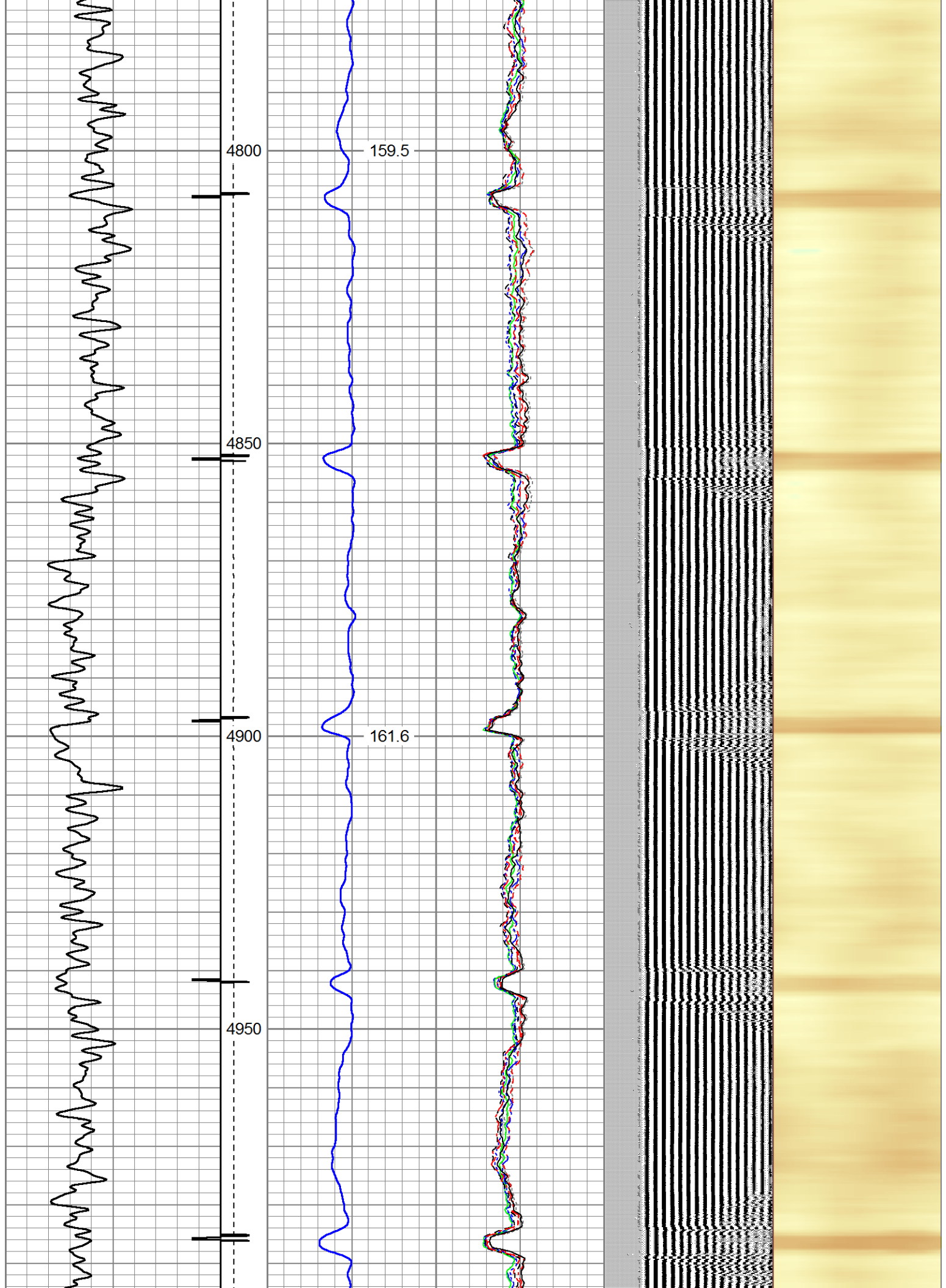


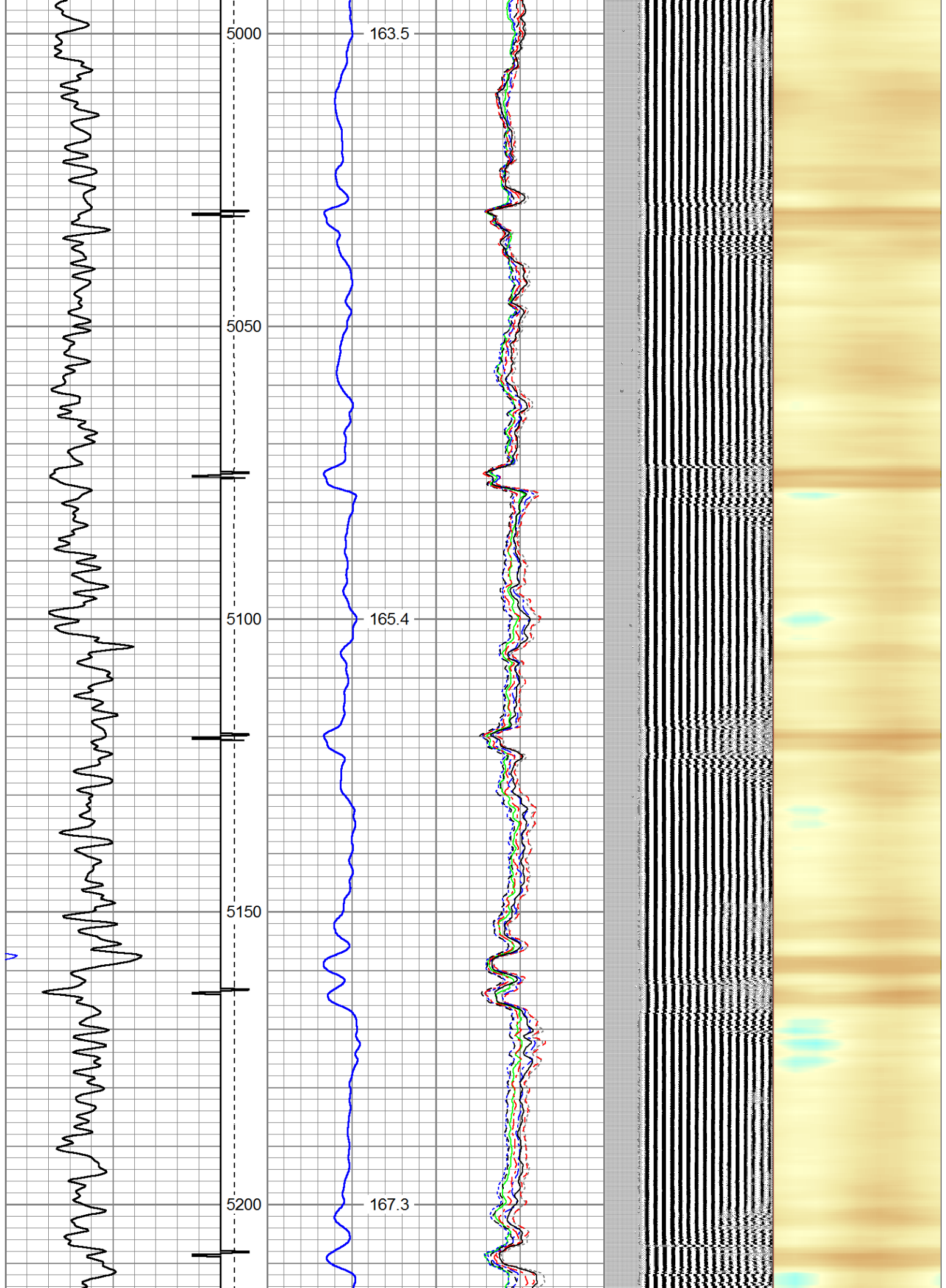


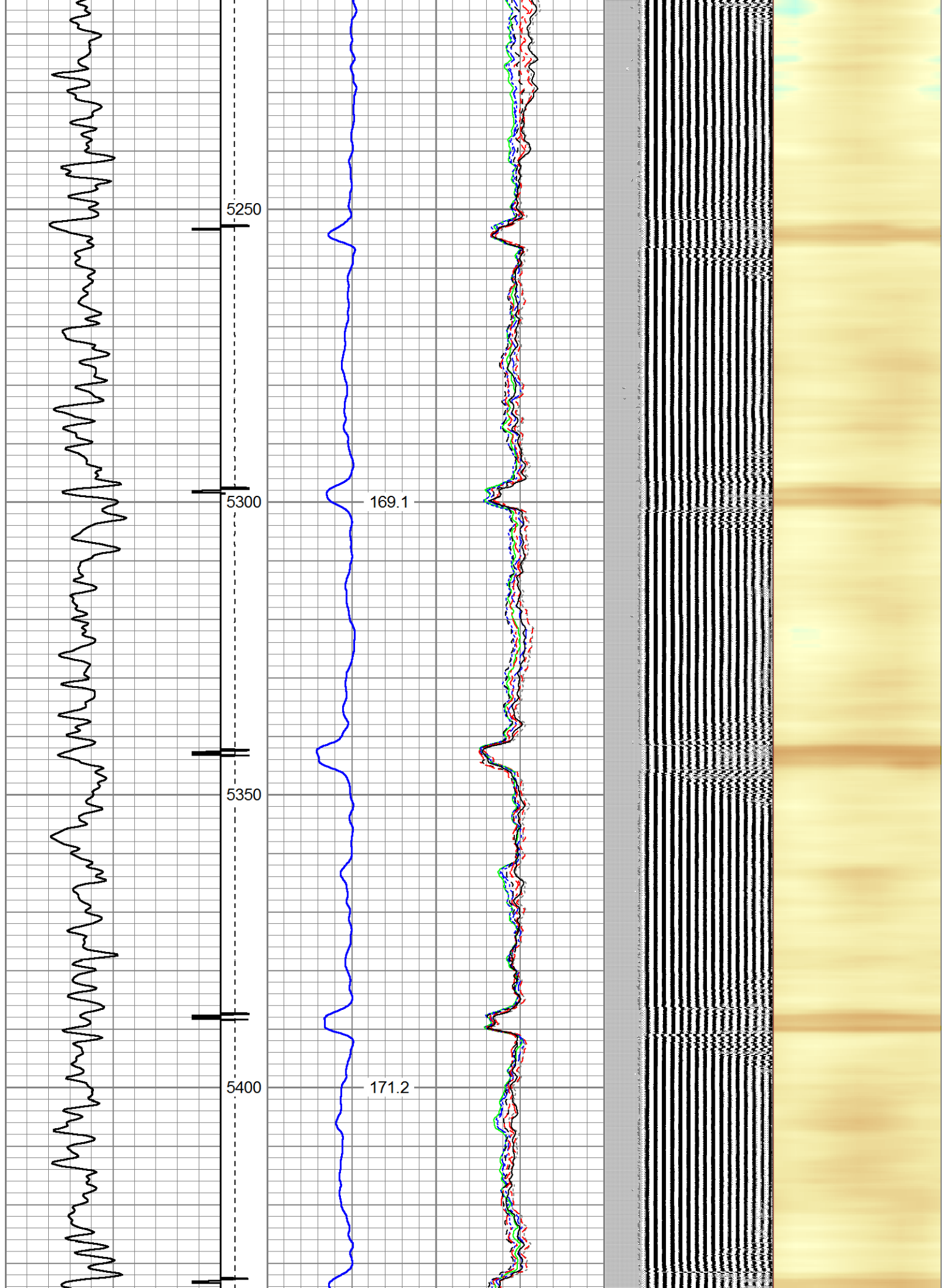


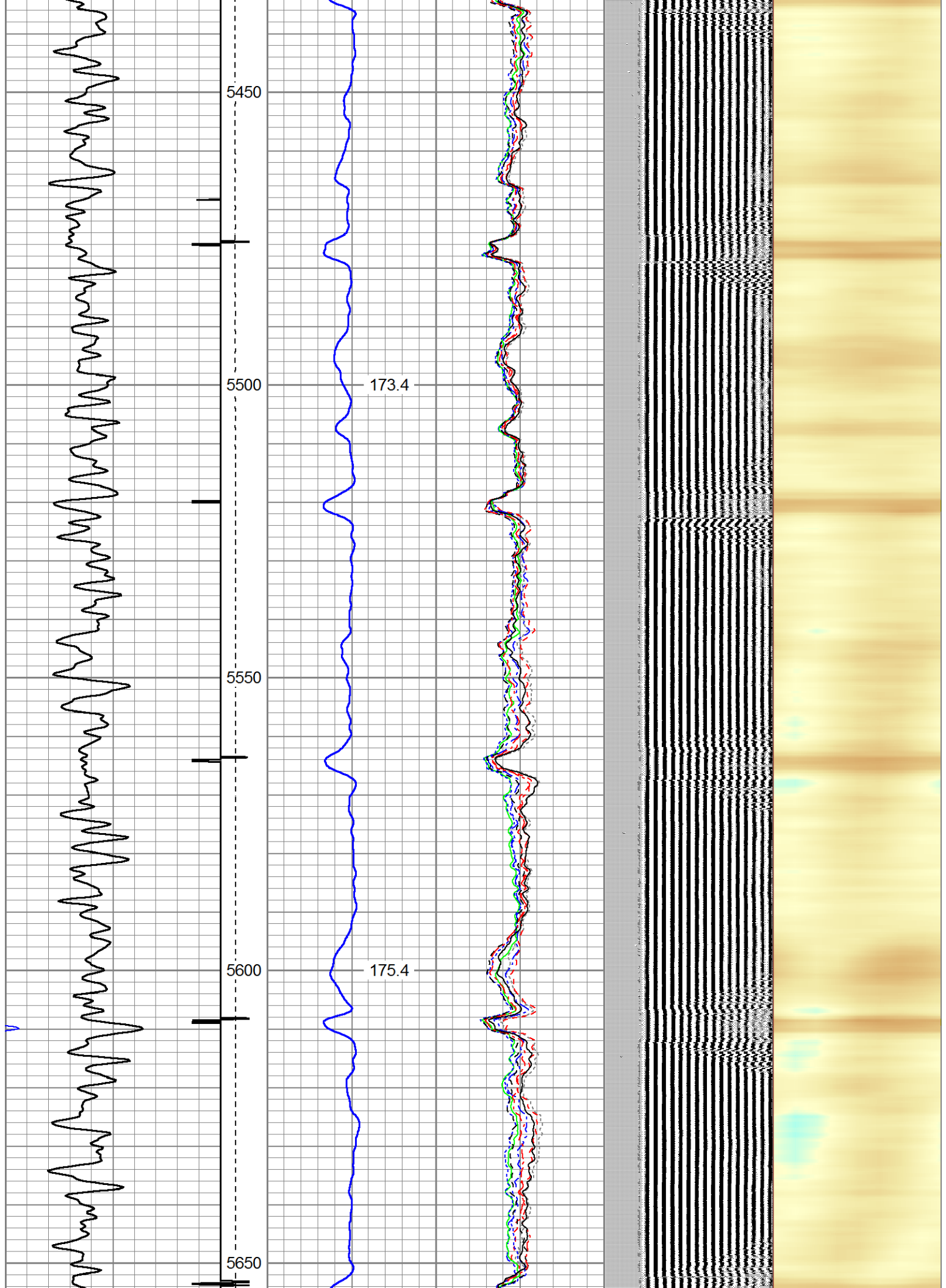


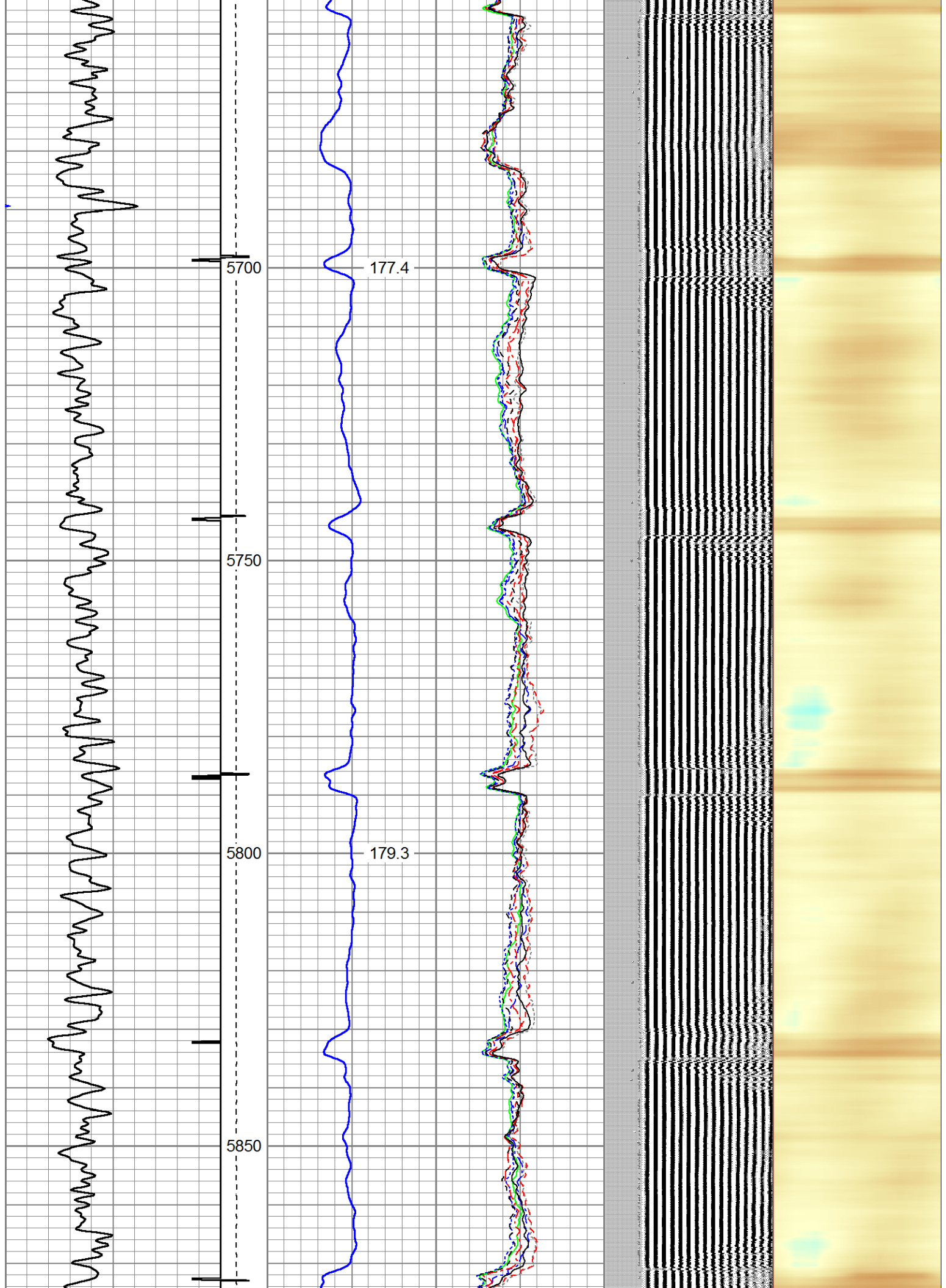


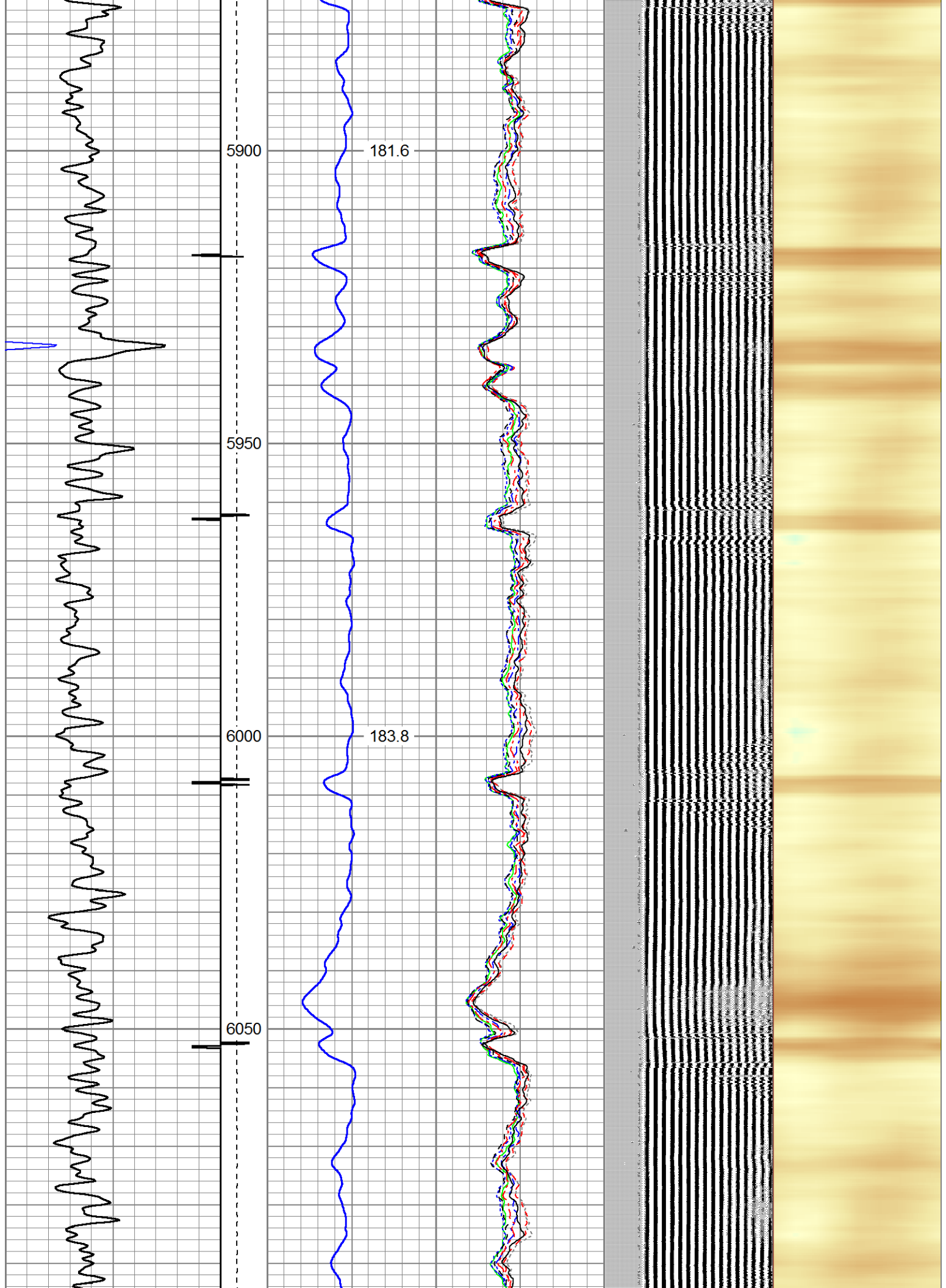


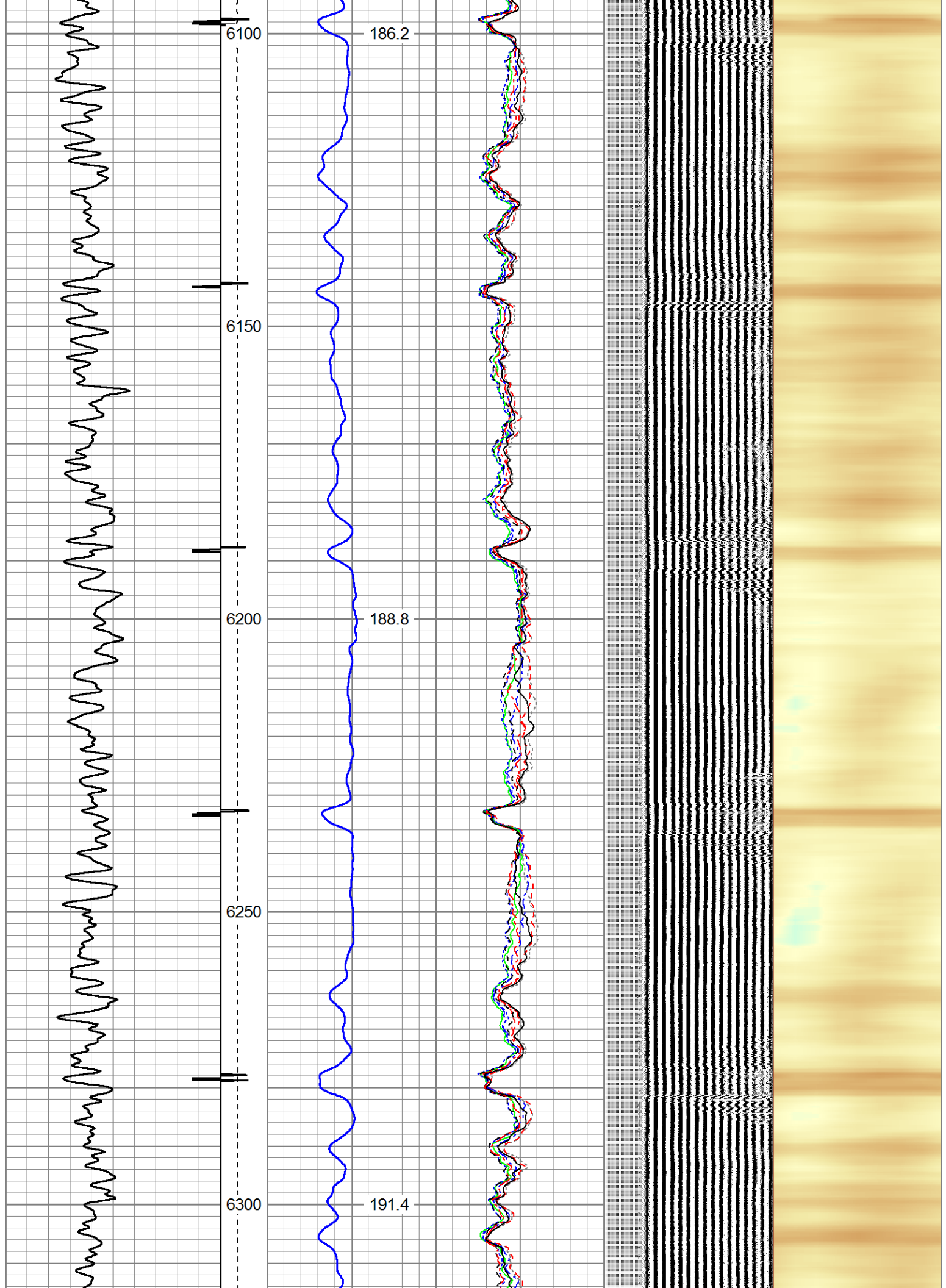


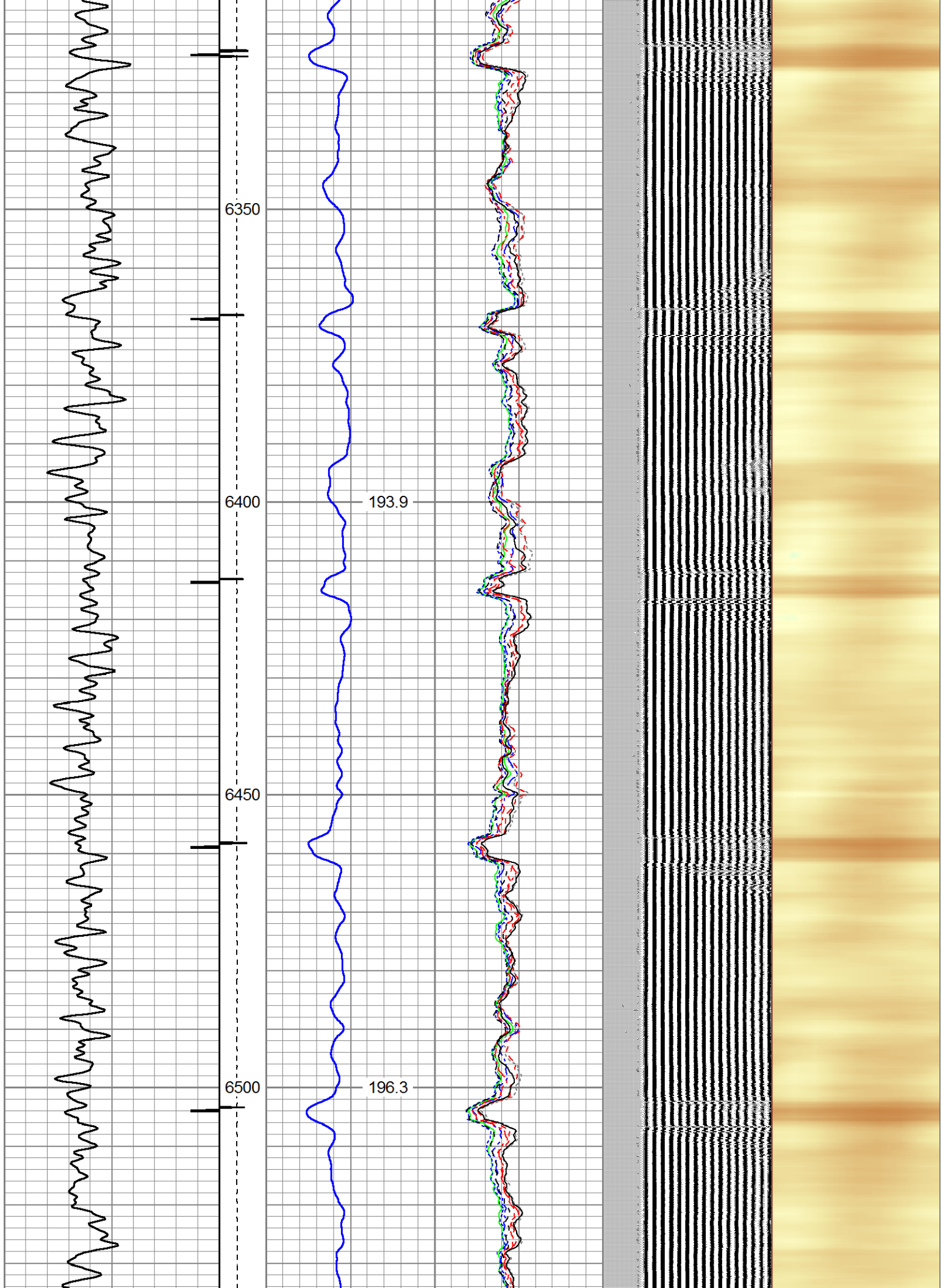


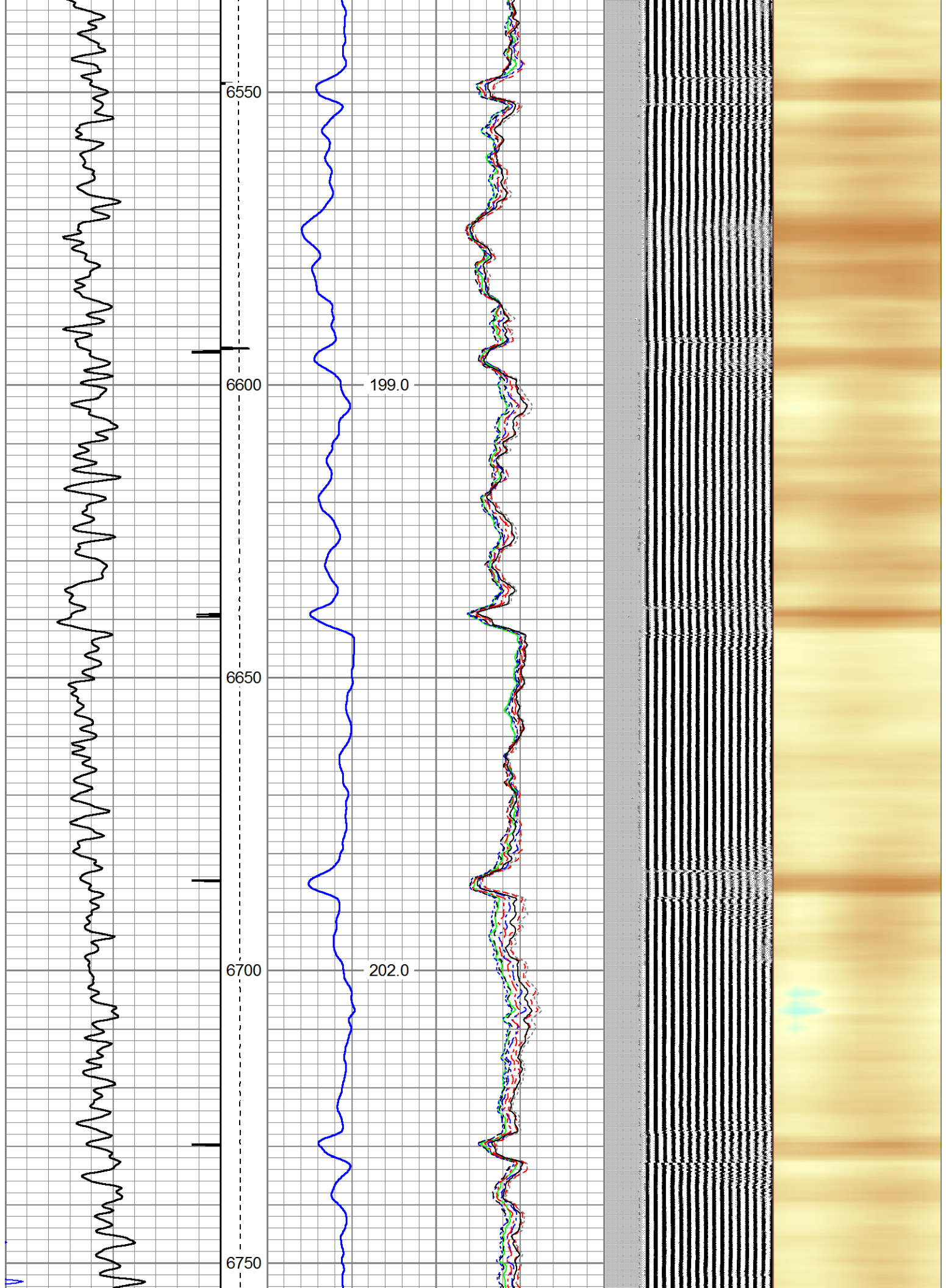


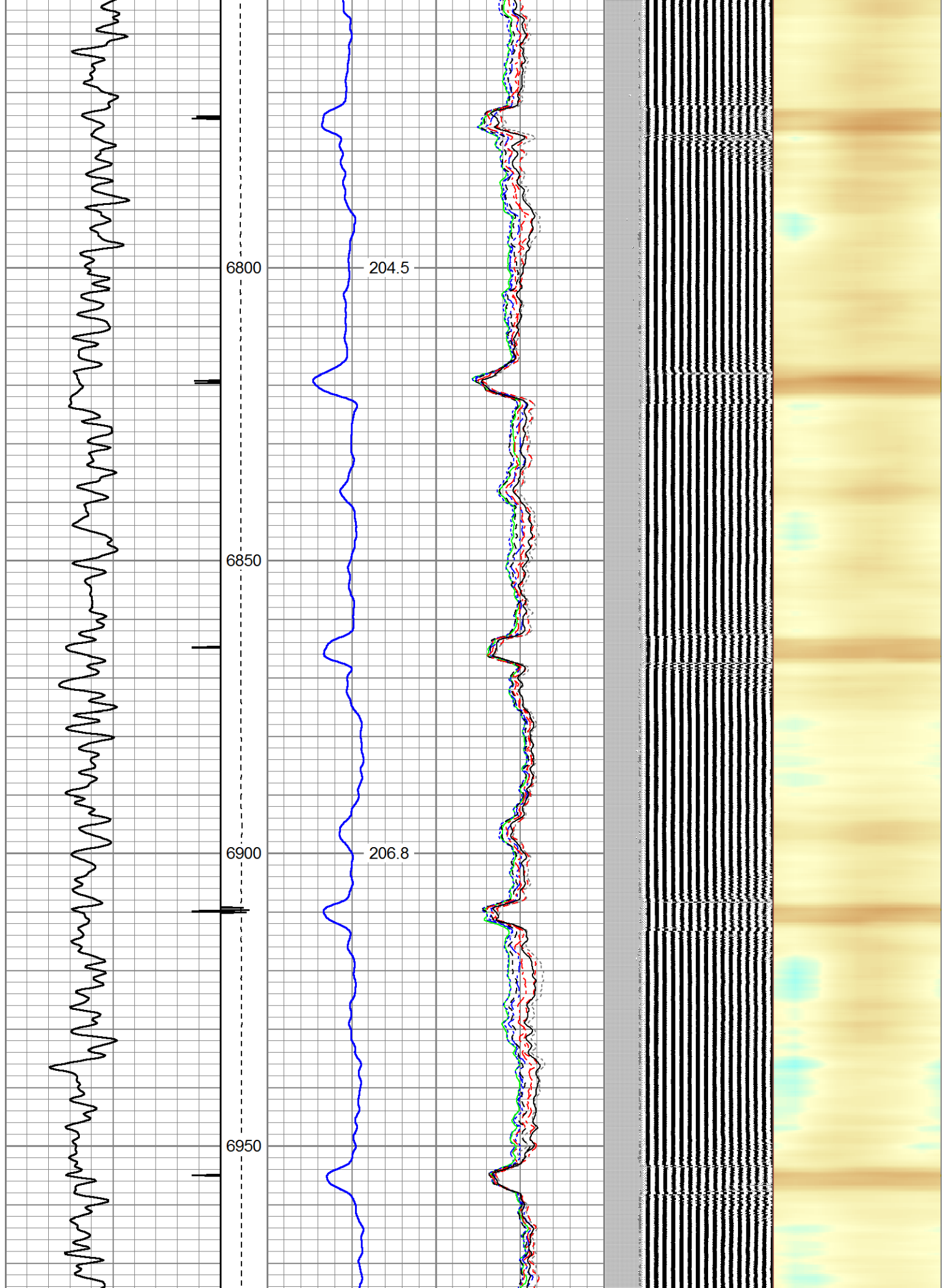


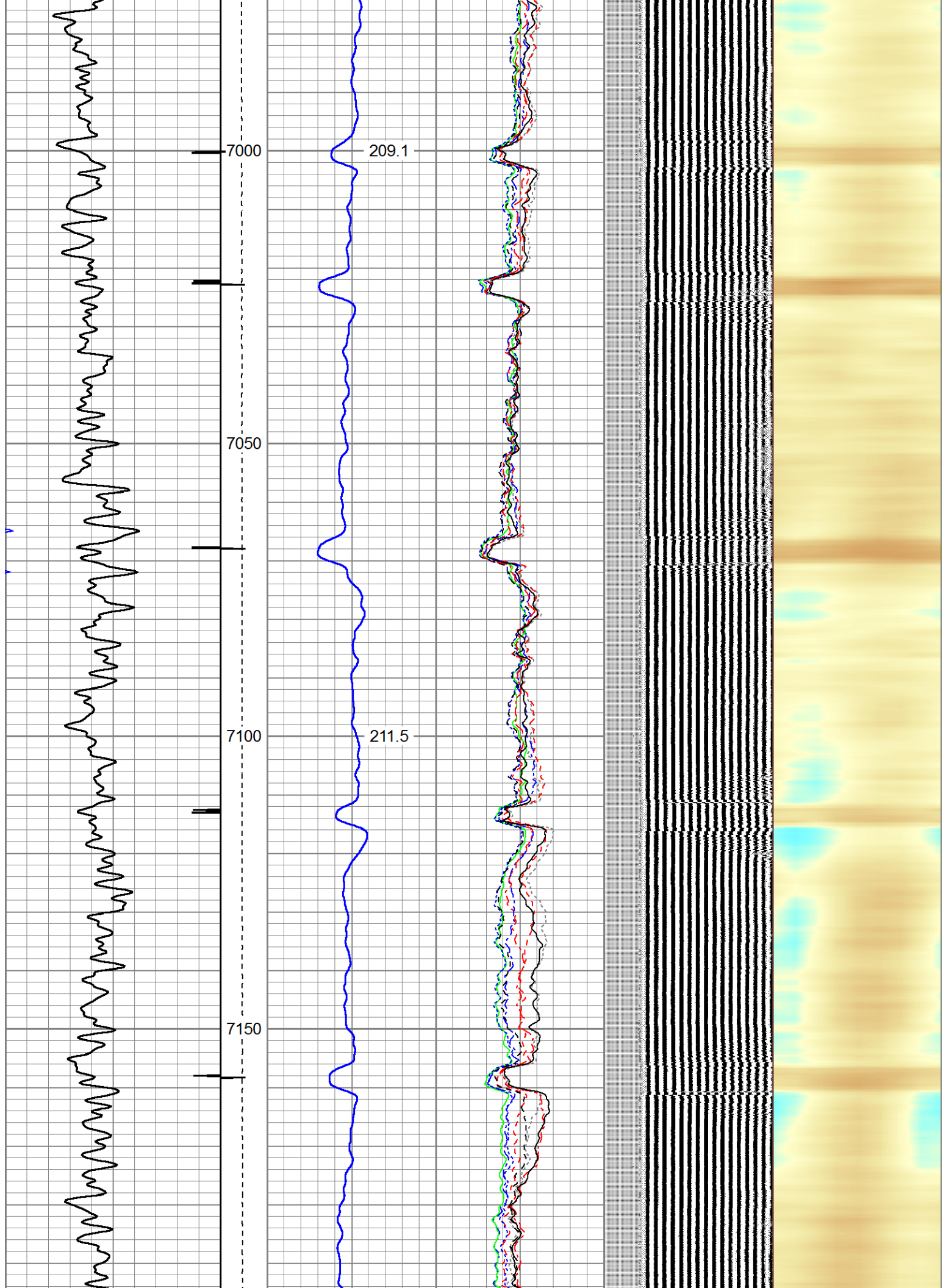


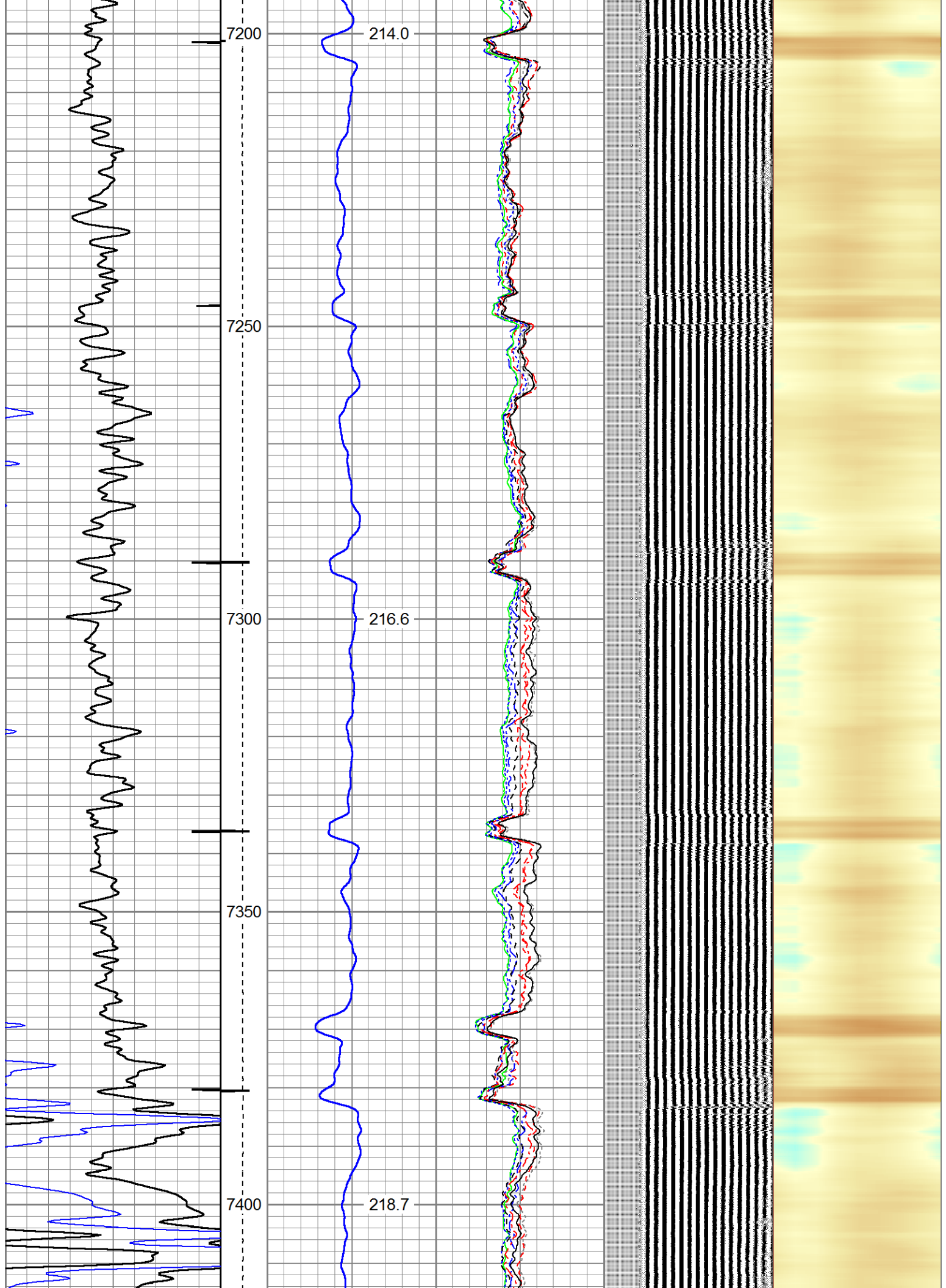


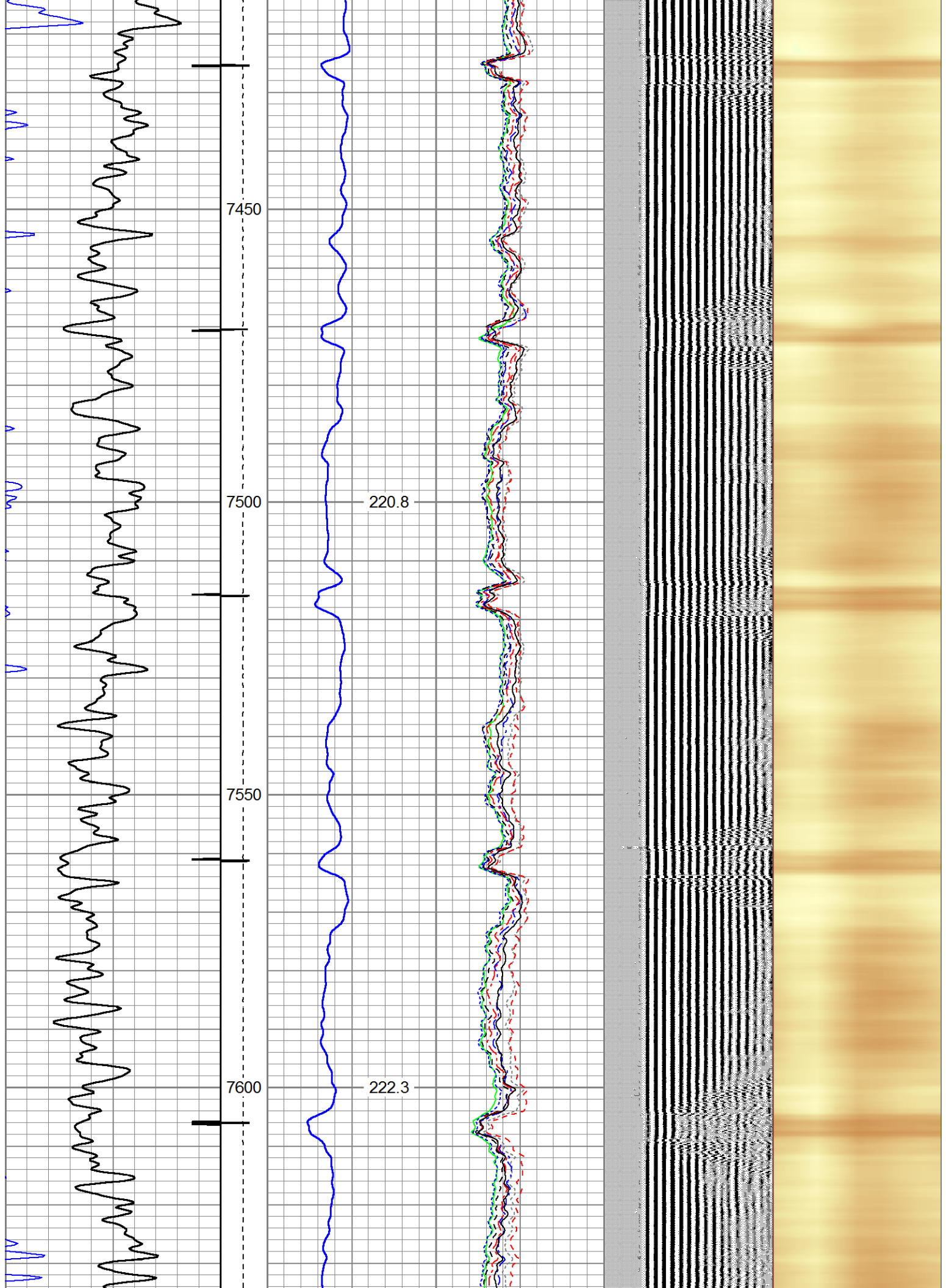


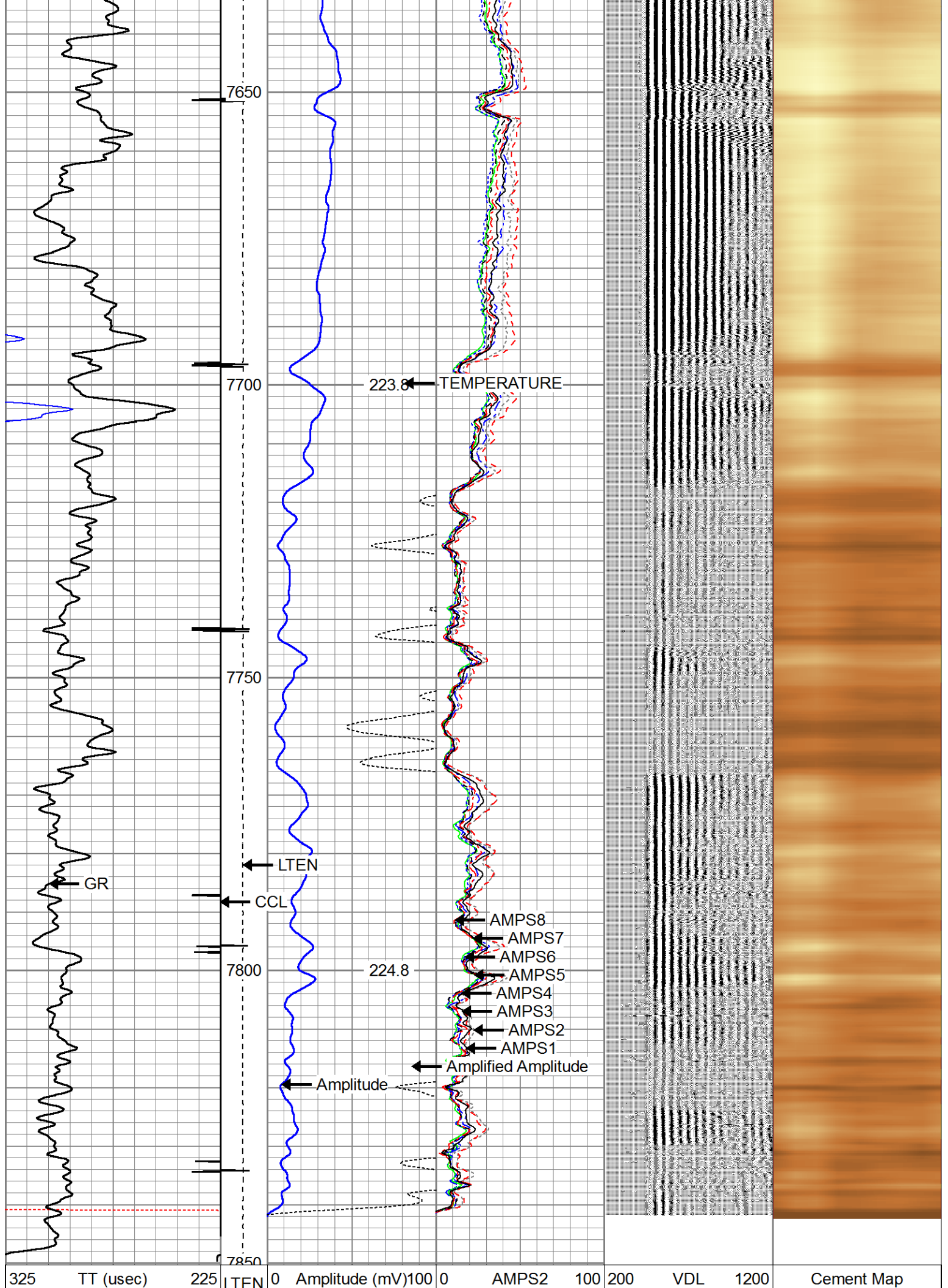












| | | | | | | | |
|---|-----------|-----|------|---------------------|---|-------|-----|
| 0 | GR (GAPI) | 250 | (lb) | Amplified Amplitude | 0 | AMPS3 | 100 |
| | | | | | 0 | AMPS4 | 100 |
| | | | | | 0 | AMPS5 | 100 |
| | | | | | 0 | AMPS6 | 100 |
| | | | | | 0 | AMPS7 | 100 |
| | | | | | 0 | AMPS8 | 100 |
| | | | | | 0 | AMPS1 | 100 |



| | | | | | | | |
|---|--|--|--|---------|----------------------|--|--|
|  | | | | Company | WARD PETROLEUM CORP. | | |
| | | | | Well | RITCHEY 26-1-19JC | | |
| | | | | Field | WATTENBERG | | |
| | | | | County | WELD | | |
| | | | | State | COLORADO | | |