



**RADIAL CEMENT
BOND LOG**

Company VERDAD RESOURCES LLC.
Well BOYD 24-01H
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123-46594

1441' FSL & 2255' FWL

SEC 24 TWP 2N RGE 64W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4923'
Log Measured From KELLY BUSHING = 24'
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4947'
D.F. 4946'
G.L. 4923'

Date 19 MARCH 2019

| | | | |
|------------------------|---------------|--|--|
| Run Number | ONE | | |
| Depth Driller | 17361' | | |
| Depth Logger | 7463' | | |
| Bottom Logged Interval | 7463' | | |
| Top Log Interval | SURFACE | | |
| Open Hole Size | 8.50" | | |
| Type Fluid | WATER | | |
| Density / Viscosity | ~8.3# | | |
| Max. Recorded Temp. | N/A | | |
| Estimated Cement Top | 472' | | |
| Time Well Ready | ROA | | |
| Time Logger on Bottom | 14:00 | | |
| Equipment Number | W-061 / C-045 | | |
| location | WINDSOR, CO | | |
| Recorded By | Z. EMICK | | |
| Witnessed By | J. TURNER | | |

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


| | | | | |
|-------------------|----------------|--------|-----|--------|
| Casing Record | Size | Wgt/Ft | Top | Bottom |
| Surface String | 9-5/8" J-55 | 36# | 0' | 1735' |
| Prot. String | | | | |
| Production String | 5-1/2" HCP-110 | 20# | 0' | 17357' |
| Liner | | | | |

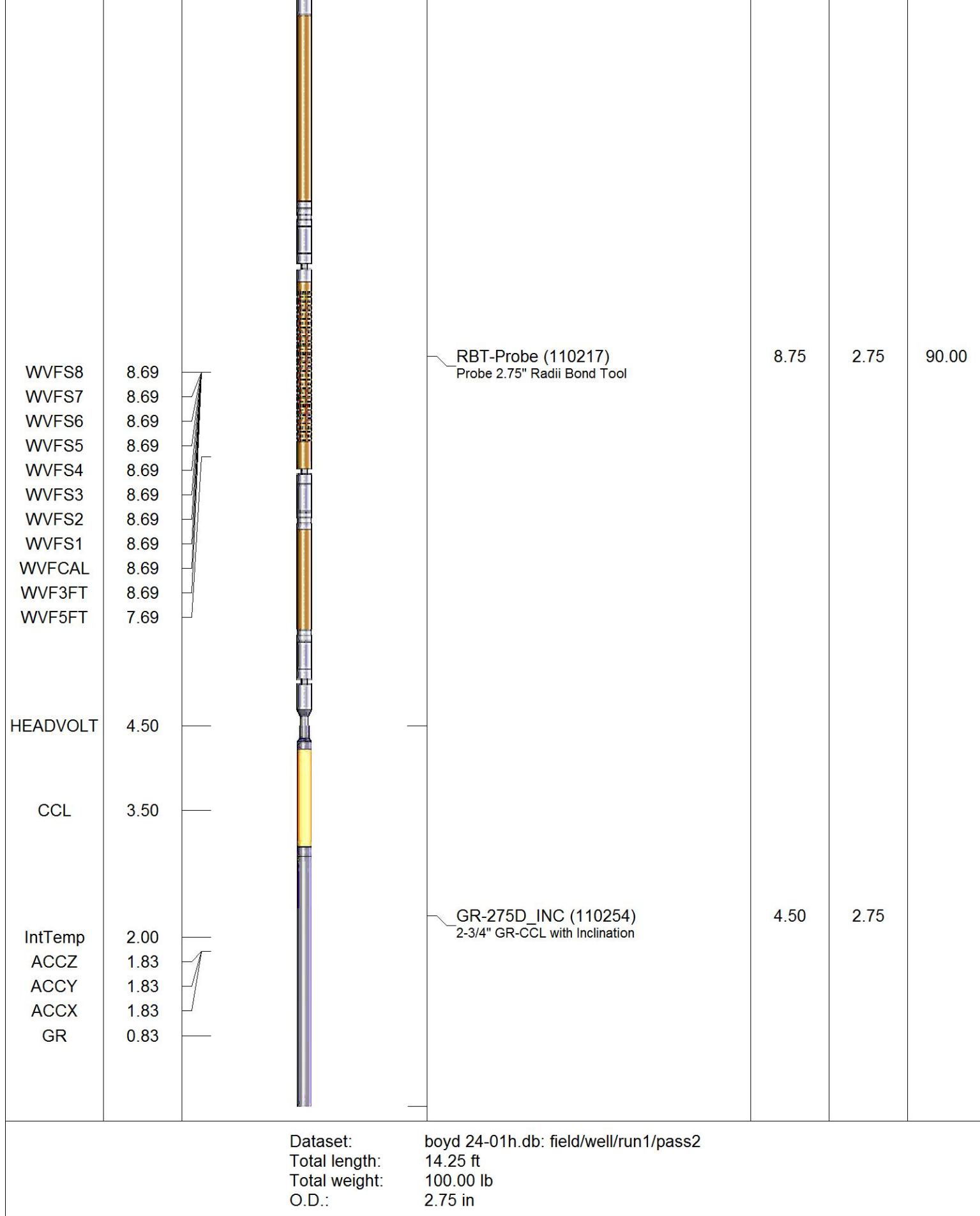
<<< Fold Here >>>

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

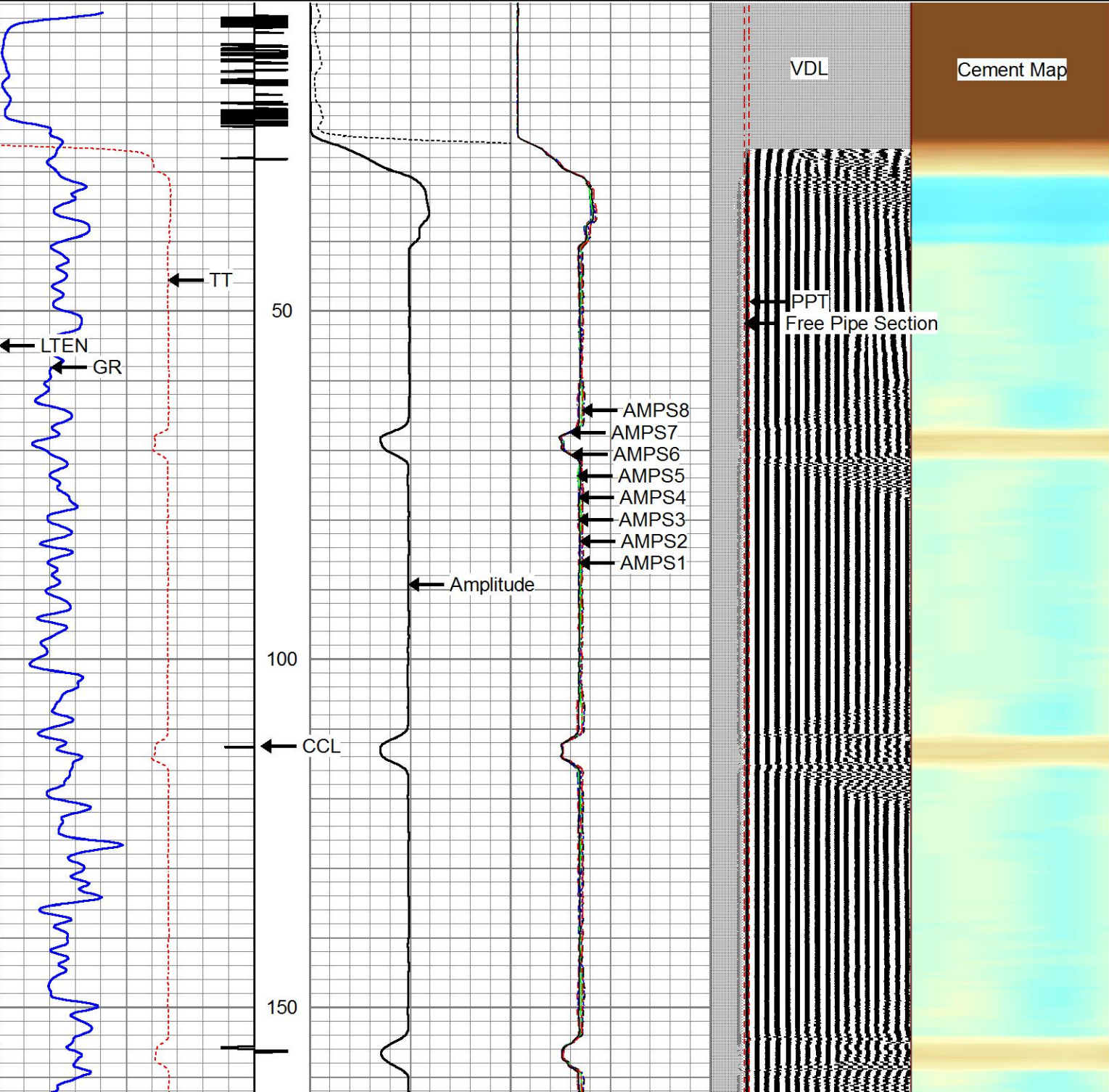
**LOG NOT CORRELATED TO ANY OTHER LOG
LOG RAN WITH 0 PSI @ SURFACE
THANK YOU FOR CHOOSING CUTTERS WIRELINE SERVICE**

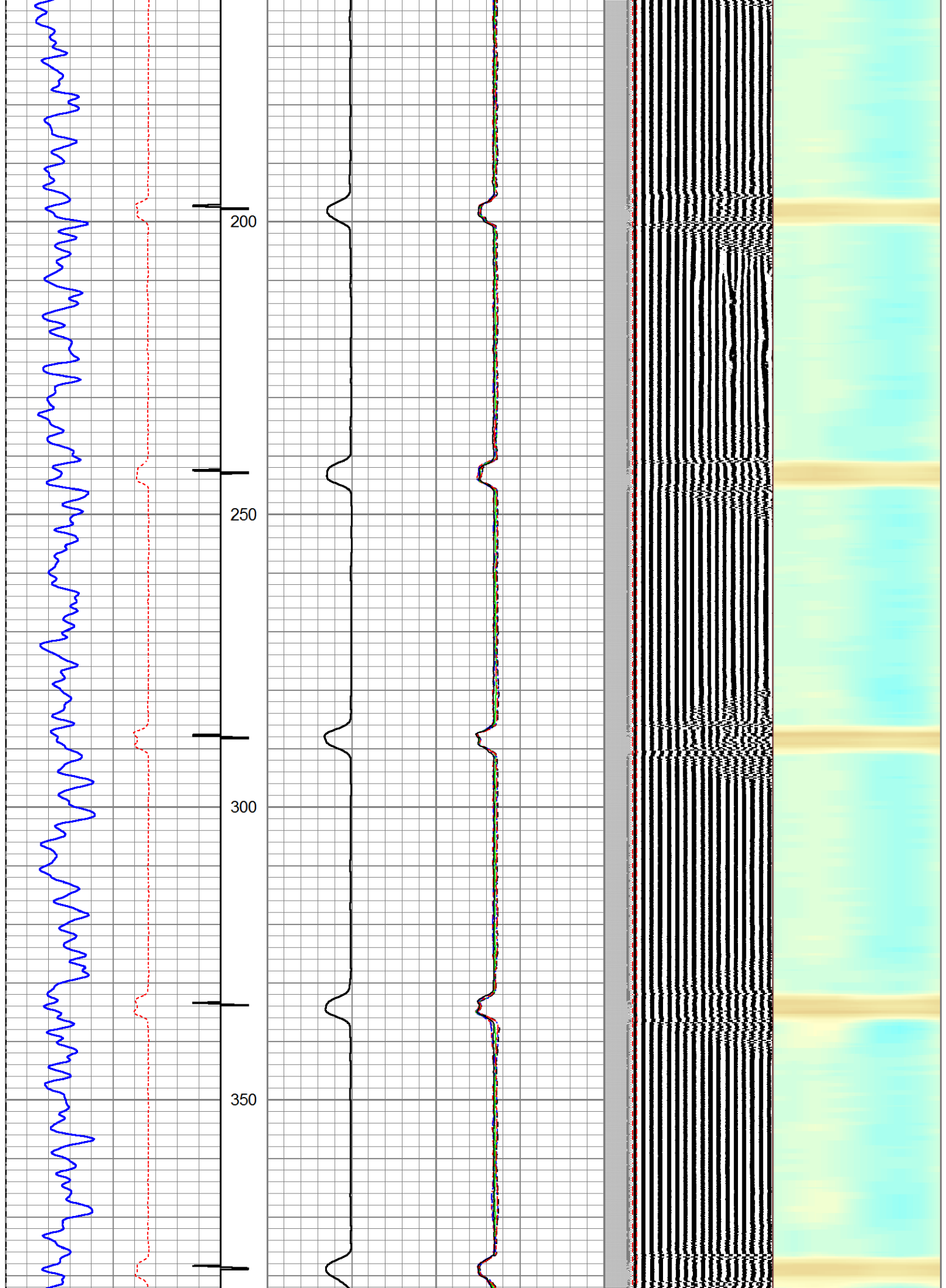
| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|---|--|-------------|-----------|-------------|
| | |  | CHD-1.4375CHD Titan Cable Head 1 7/16 | 1.00 | 1.44 | 10.00 |

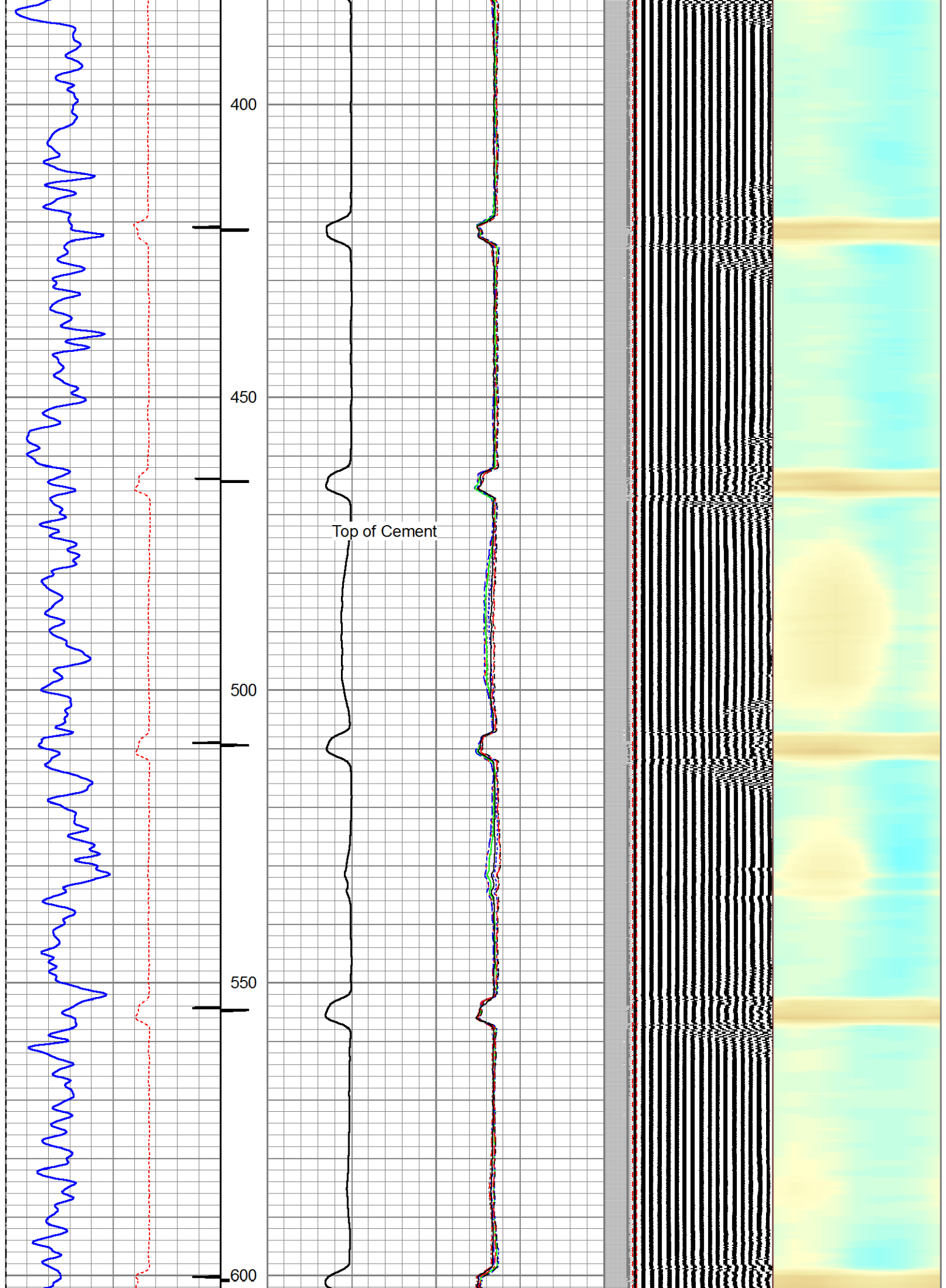


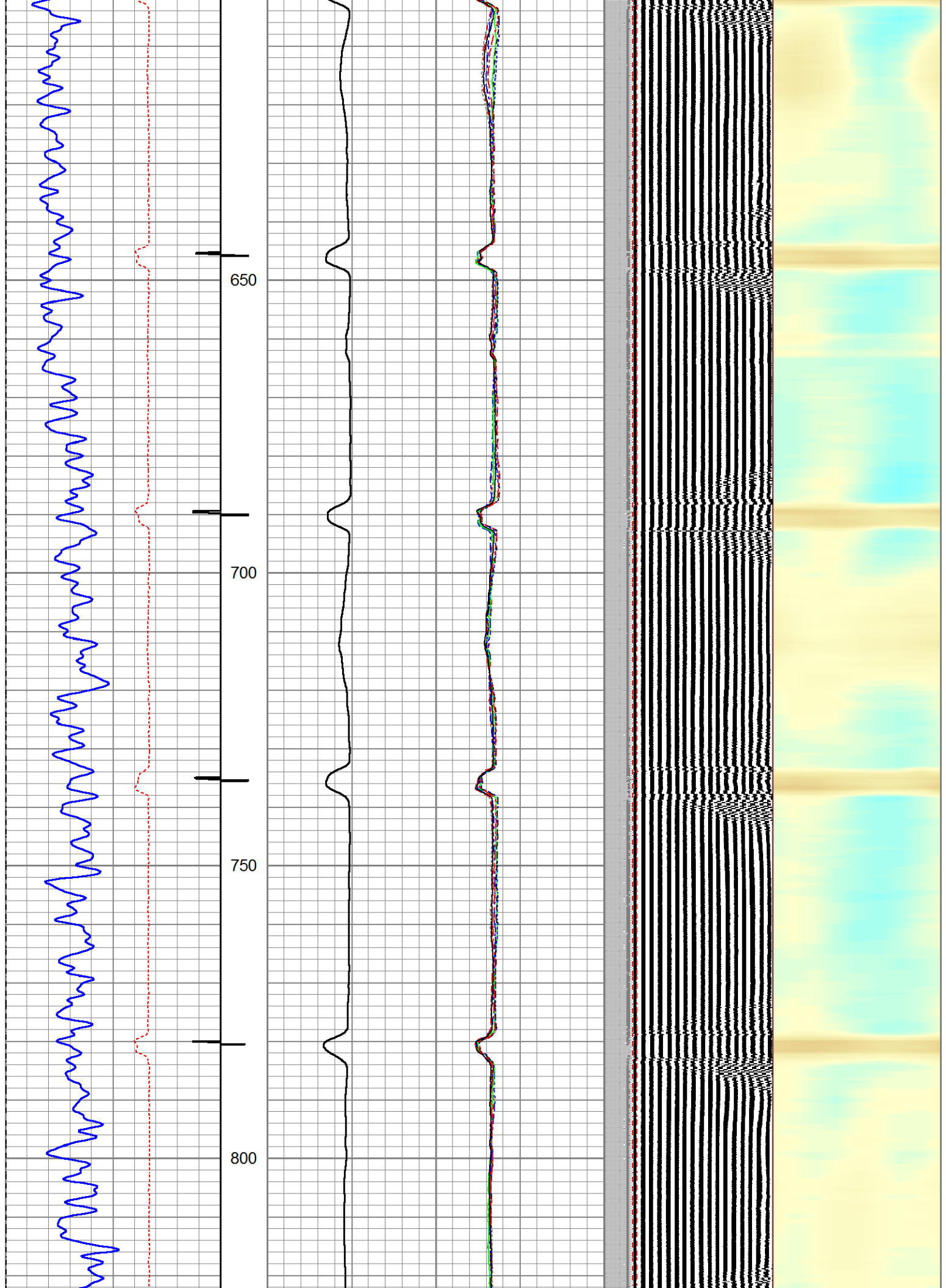
Database File c:\users\user\desktop\boyd 24-01h.db
Dataset Pathname pass2
Presentation Format scbl4_5
Dataset Creation Tue Mar 19 13:32:28 2019
Charted by Depth in Feet scaled 1:240

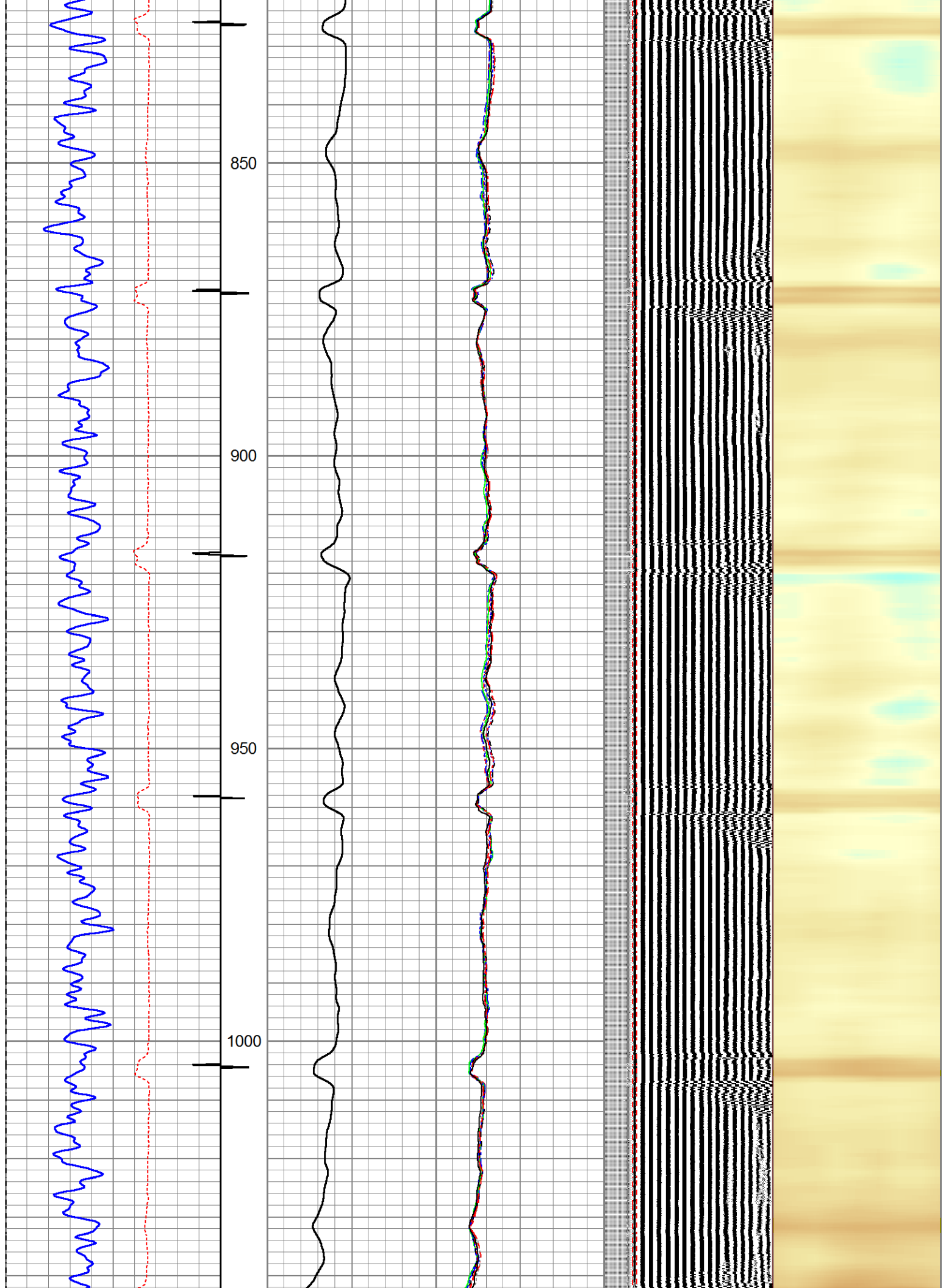
| | | | | | | | | | | | | |
|-----|-----------|------|---------------------|----------------|-----|-------|-------|-----|-------------------|------------|------|------------|
| 325 | TT (usec) | 225 | 0 | Amplitude (mV) | 100 | -5 | AMPS2 | 150 | 200 | VDL (usec) | 1200 | Cement Map |
| 0 | GR (GAPI) | 200 | Amplified Amplitude | | -5 | AMPS3 | 150 | | | | | |
| 0 | LTEN (lb) | 3000 | 0 | (mV) | 10 | -5 | AMPS4 | 150 | Free Pipe Section | | | |
| | | CCL | | | -5 | AMPS5 | 150 | | | | | |
| | | | | | -5 | AMPS6 | 150 | | | | | |
| | | | | | -5 | AMPS7 | 150 | | | | | |
| | | | | | -5 | AMPS8 | 150 | | | | | |
| | | | | | -5 | AMPS1 | 150 | | | | | |

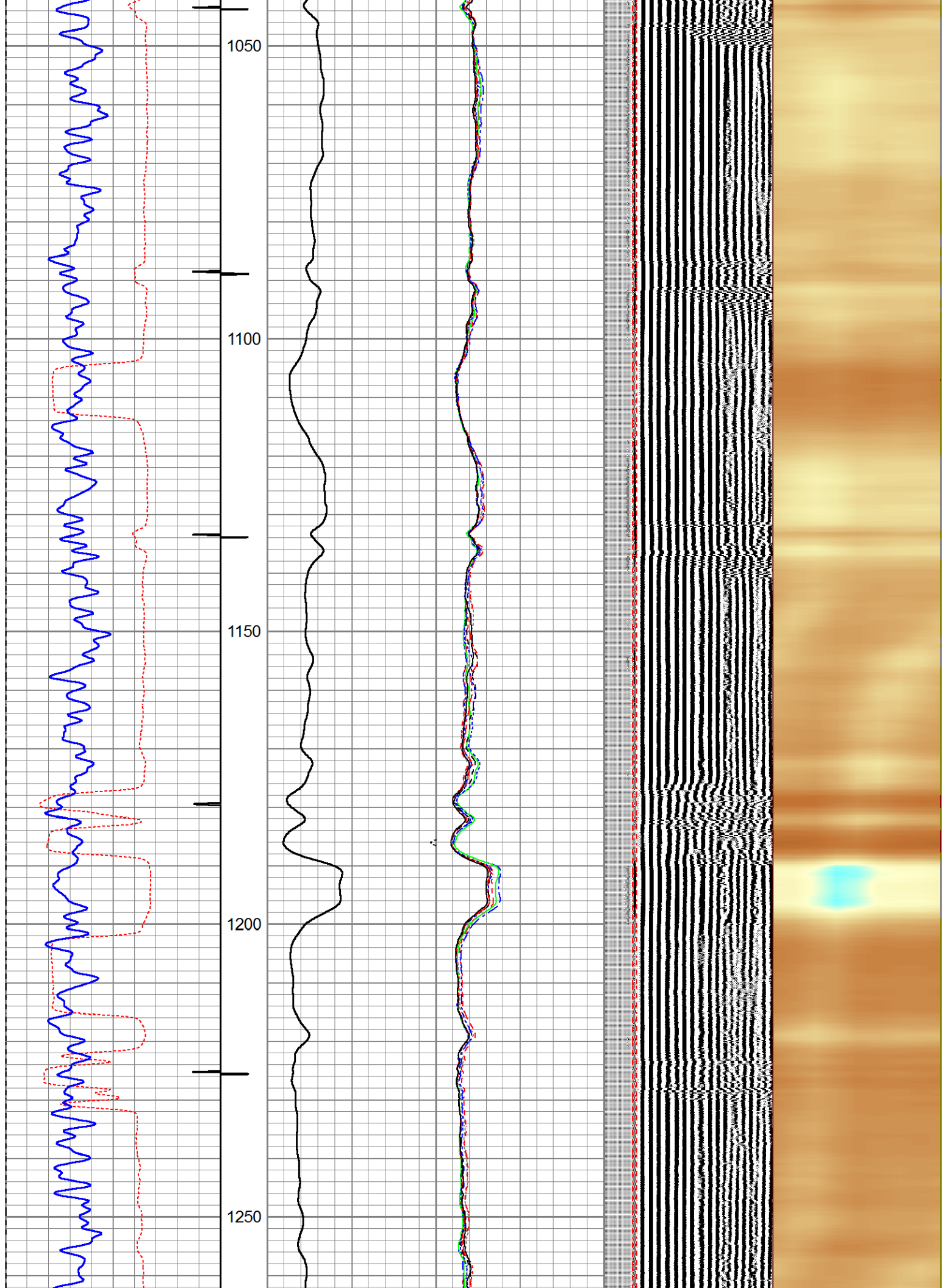


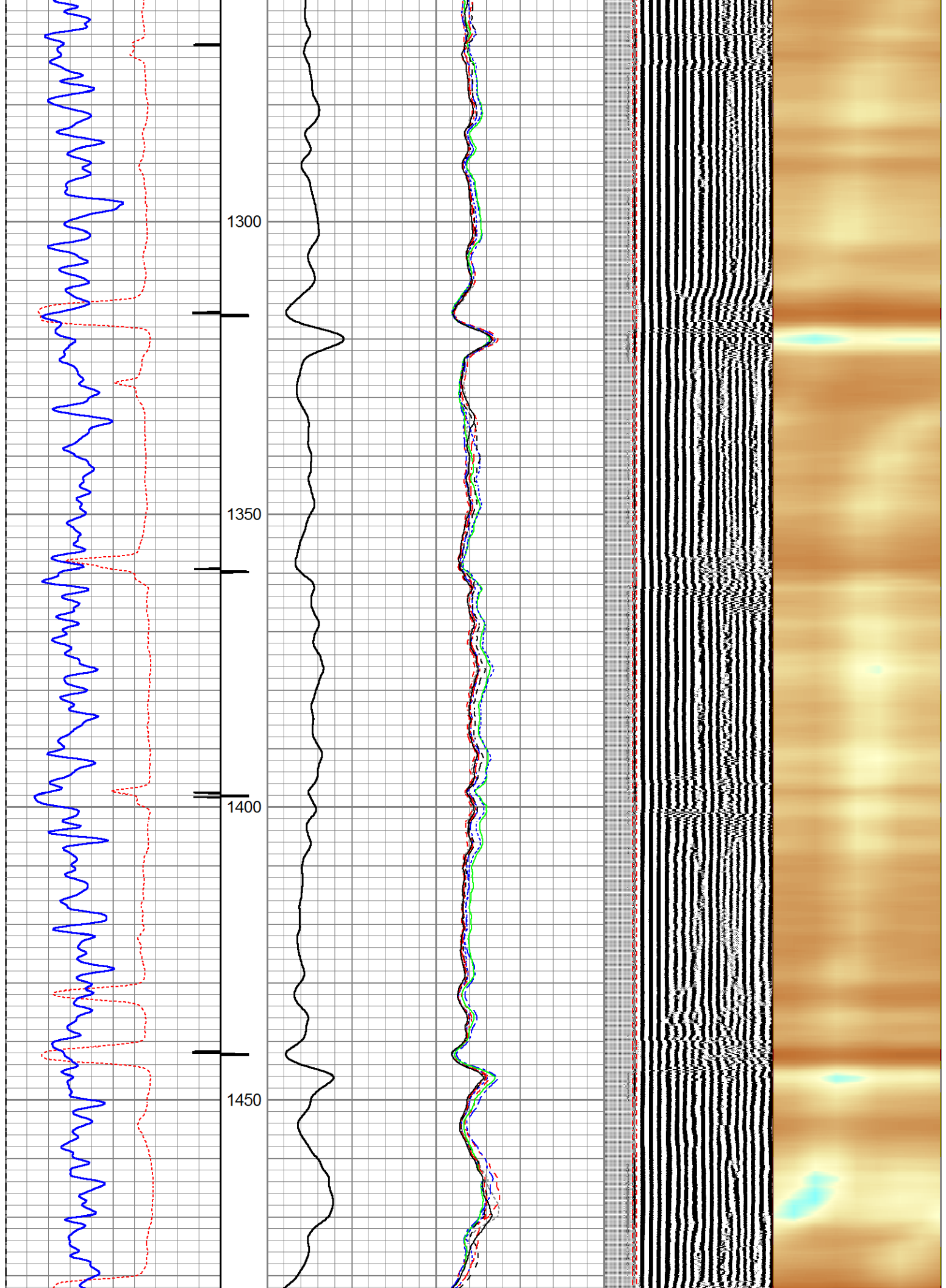


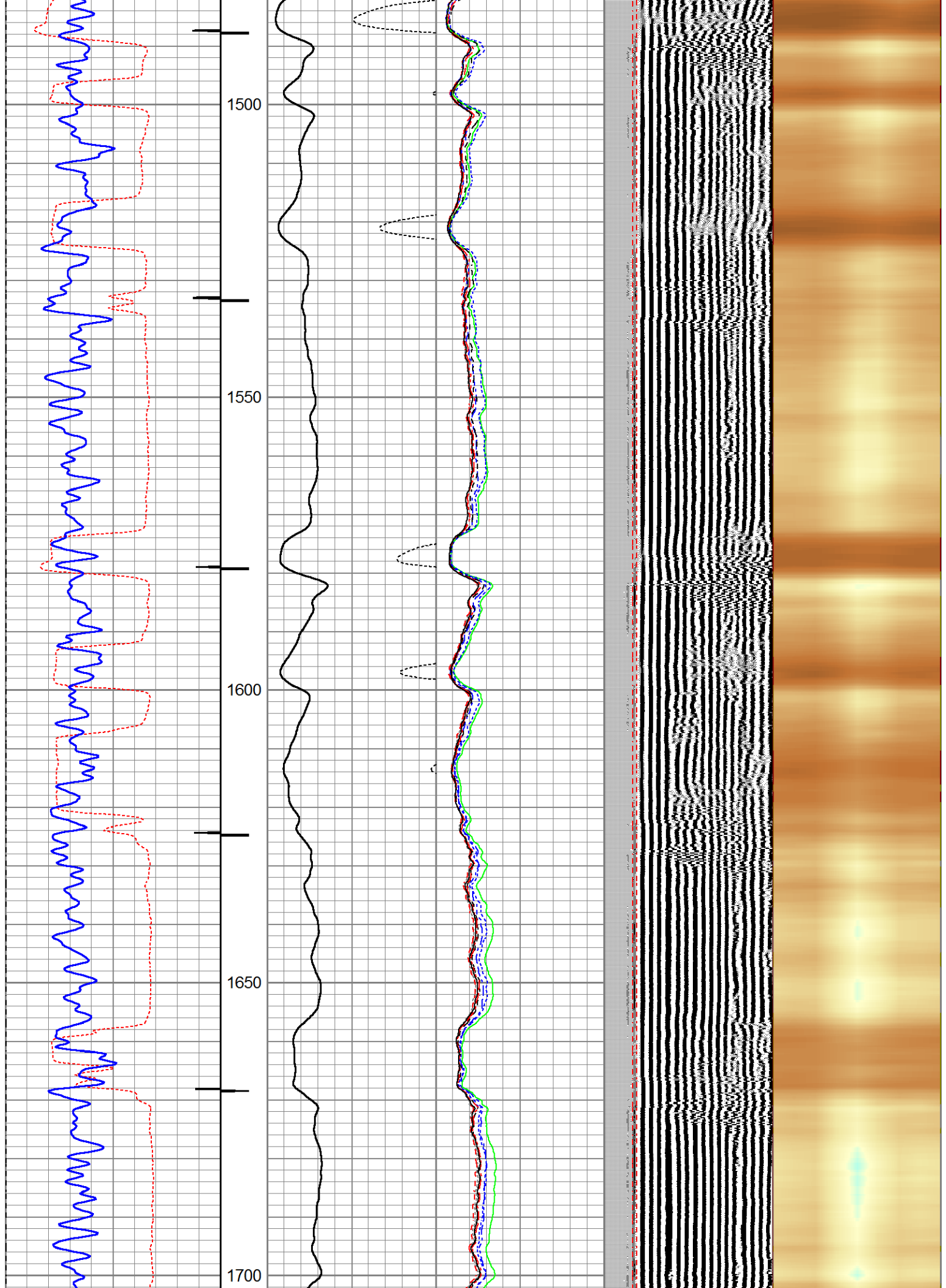


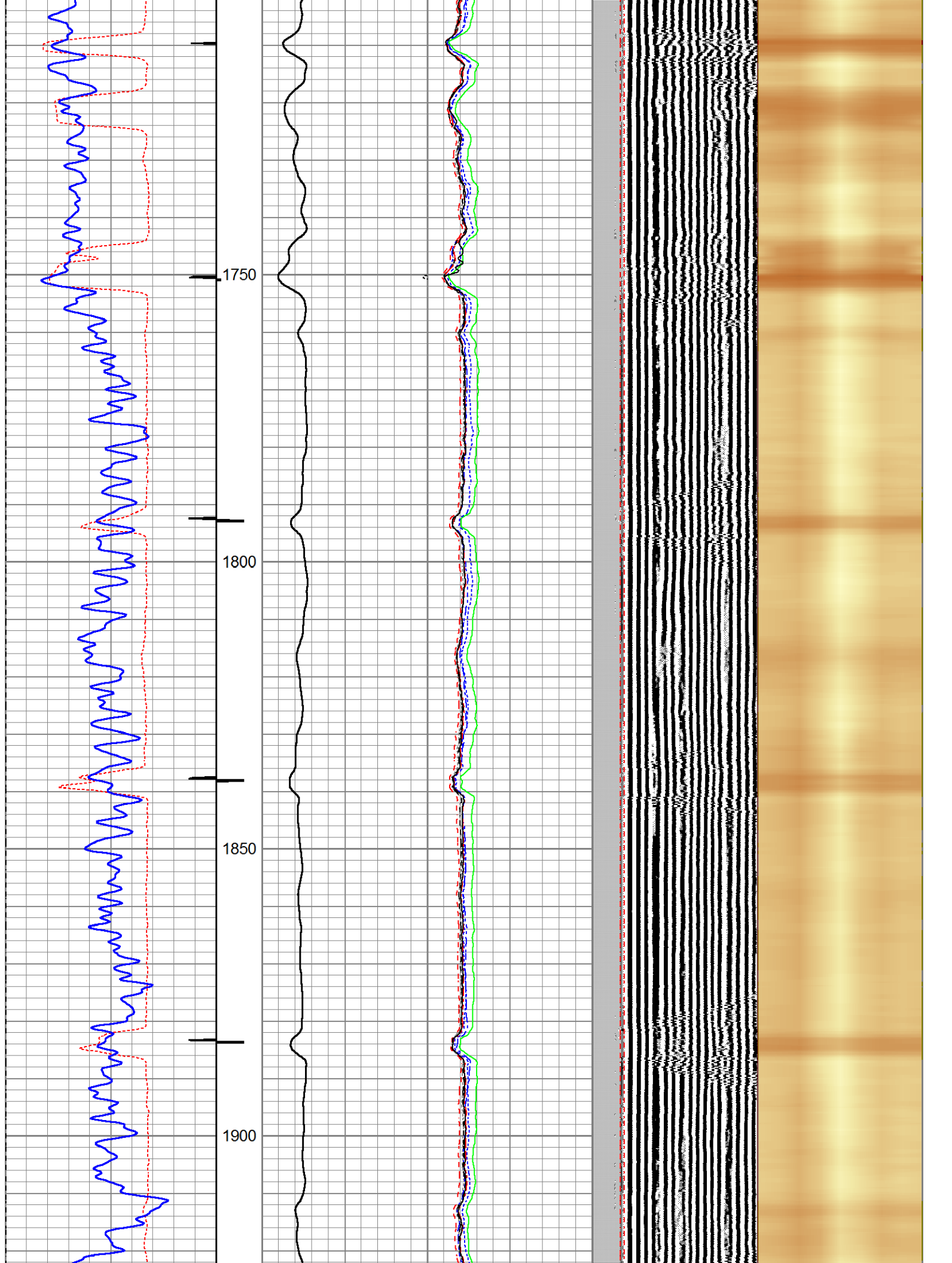


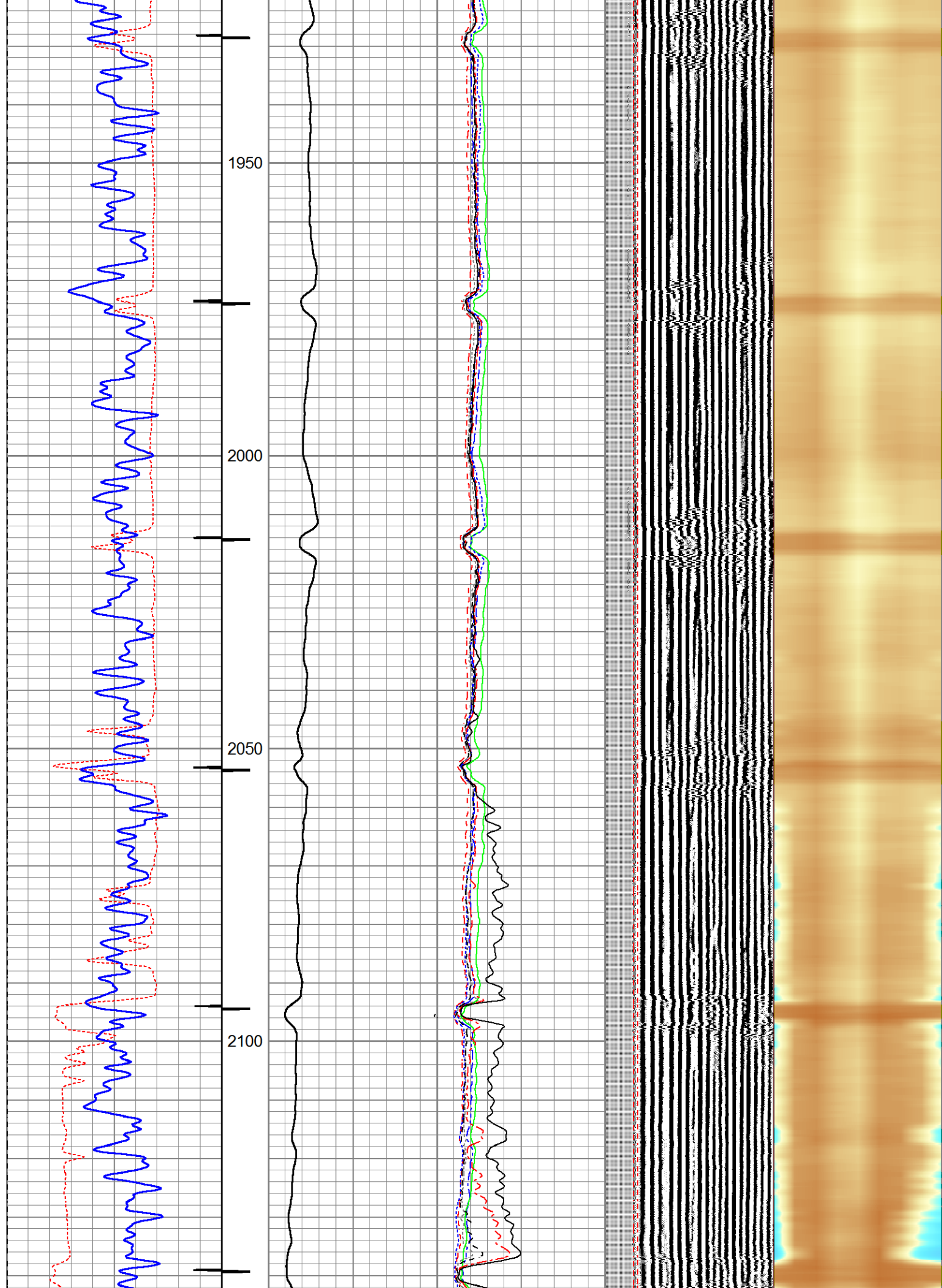


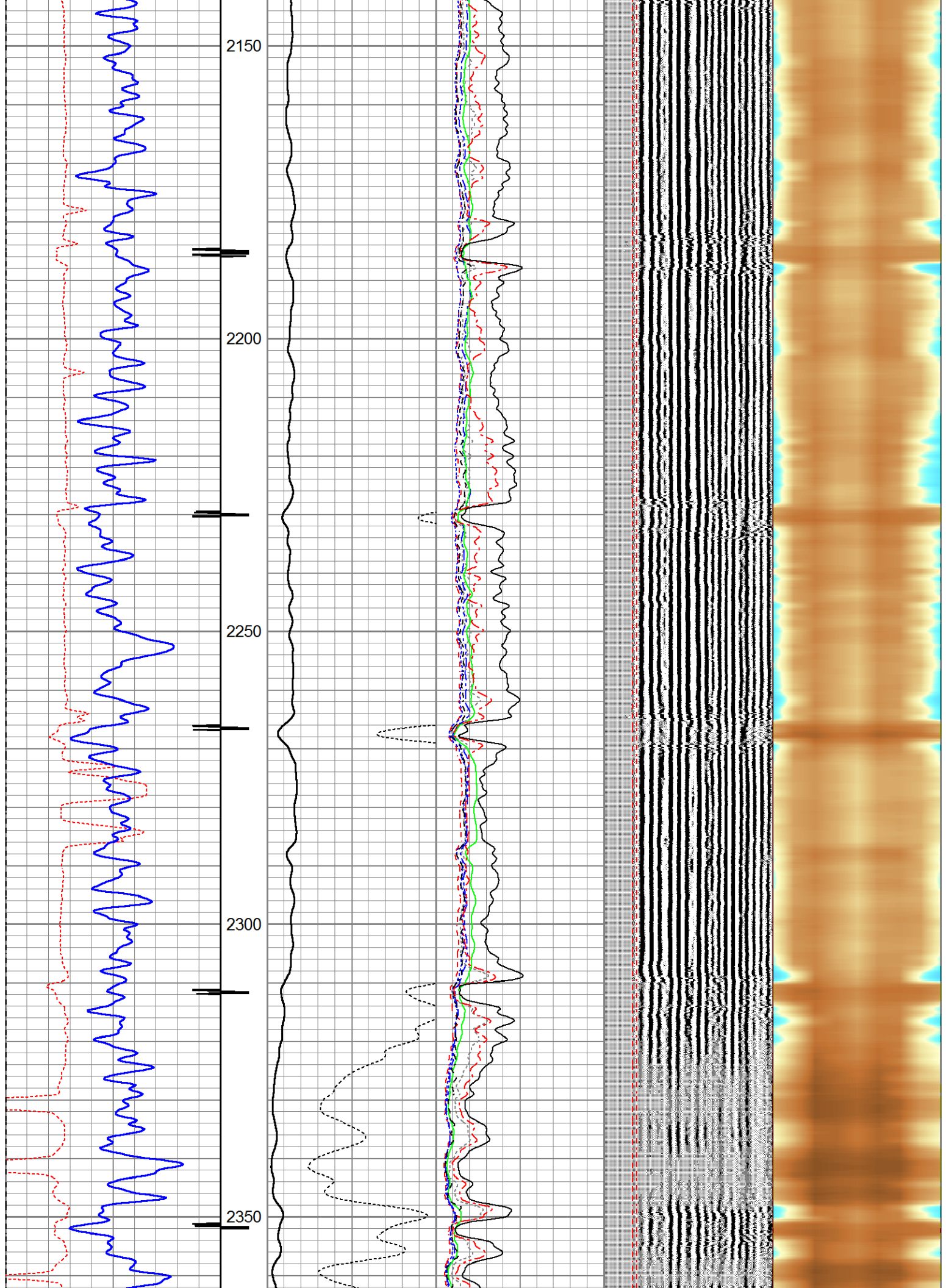


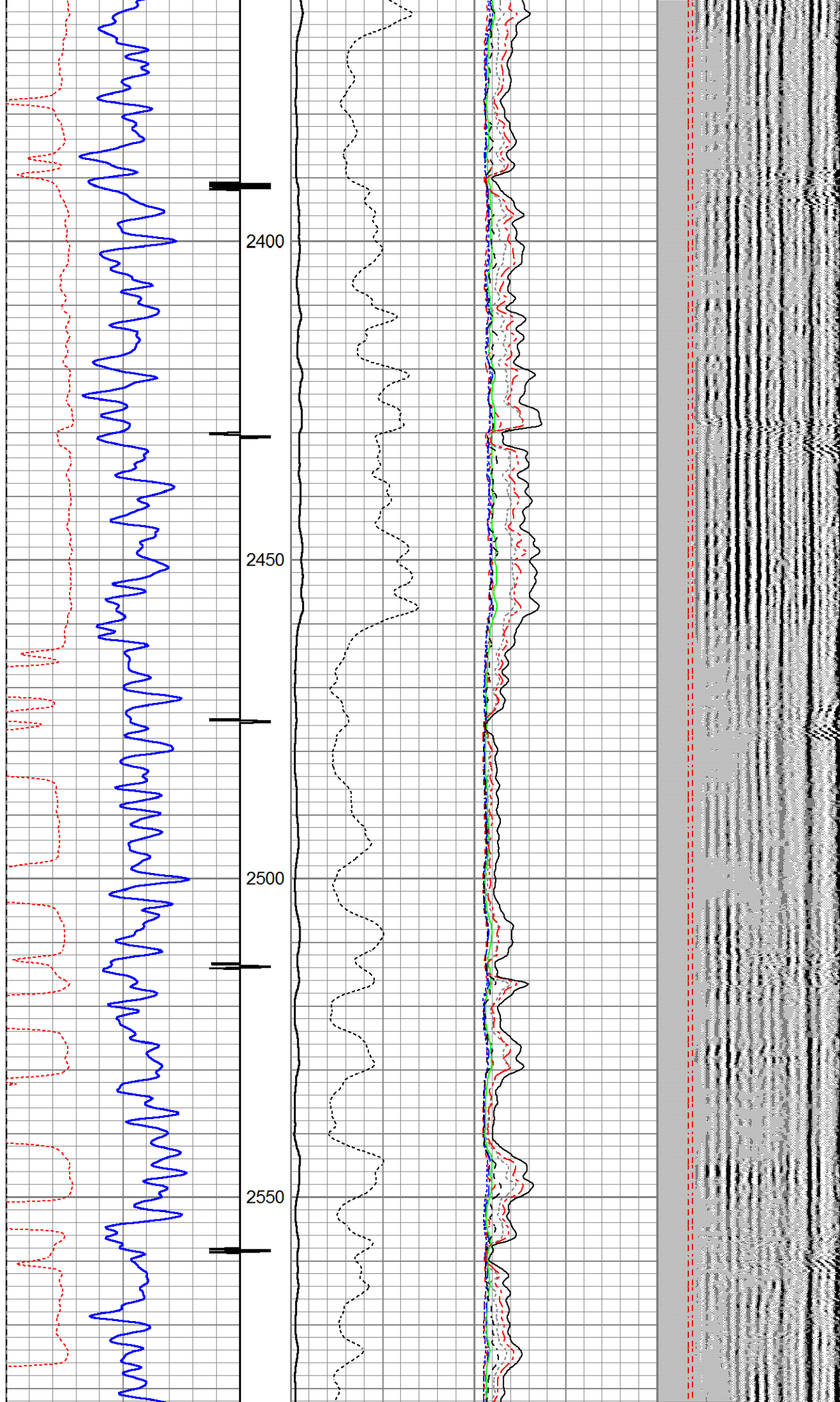


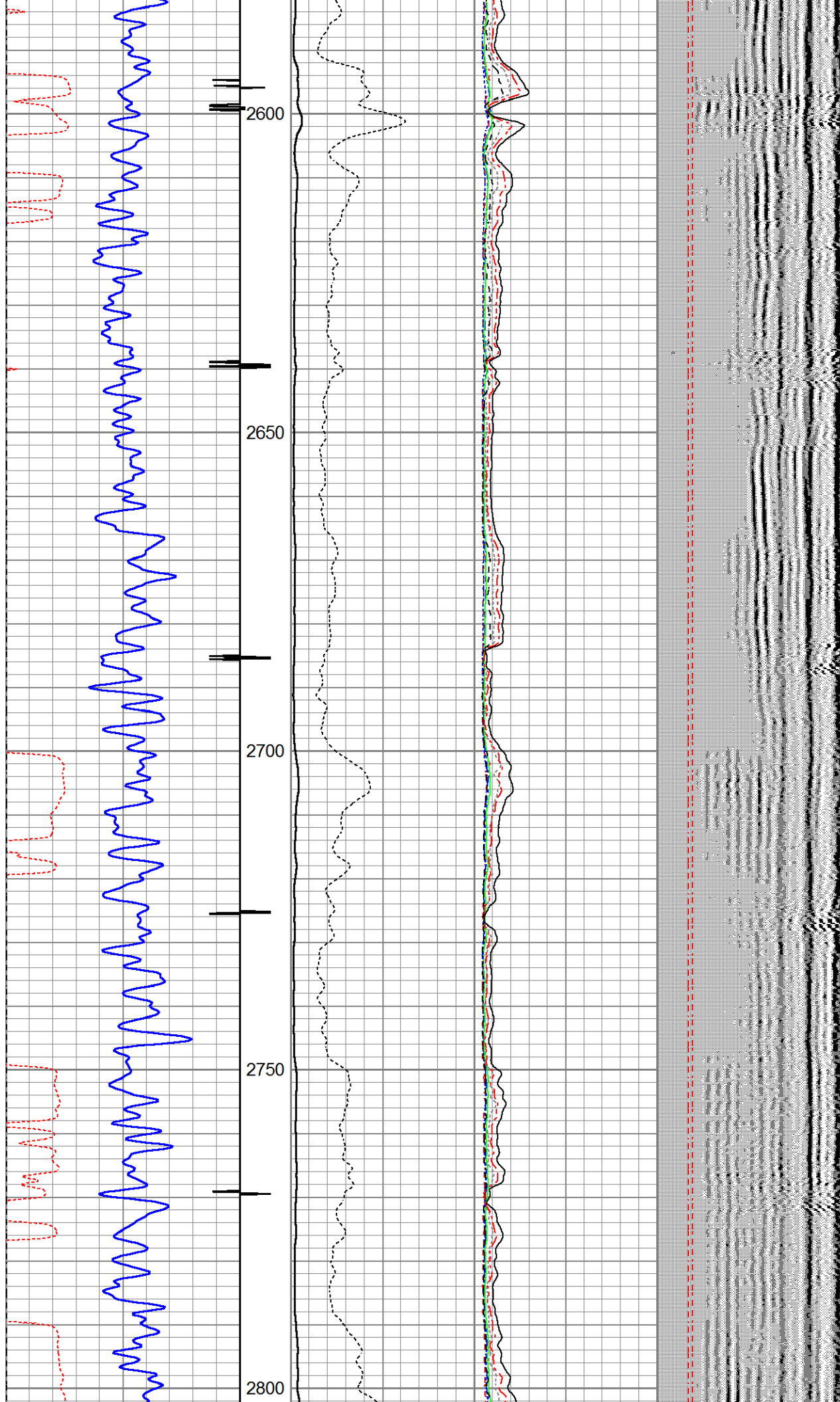


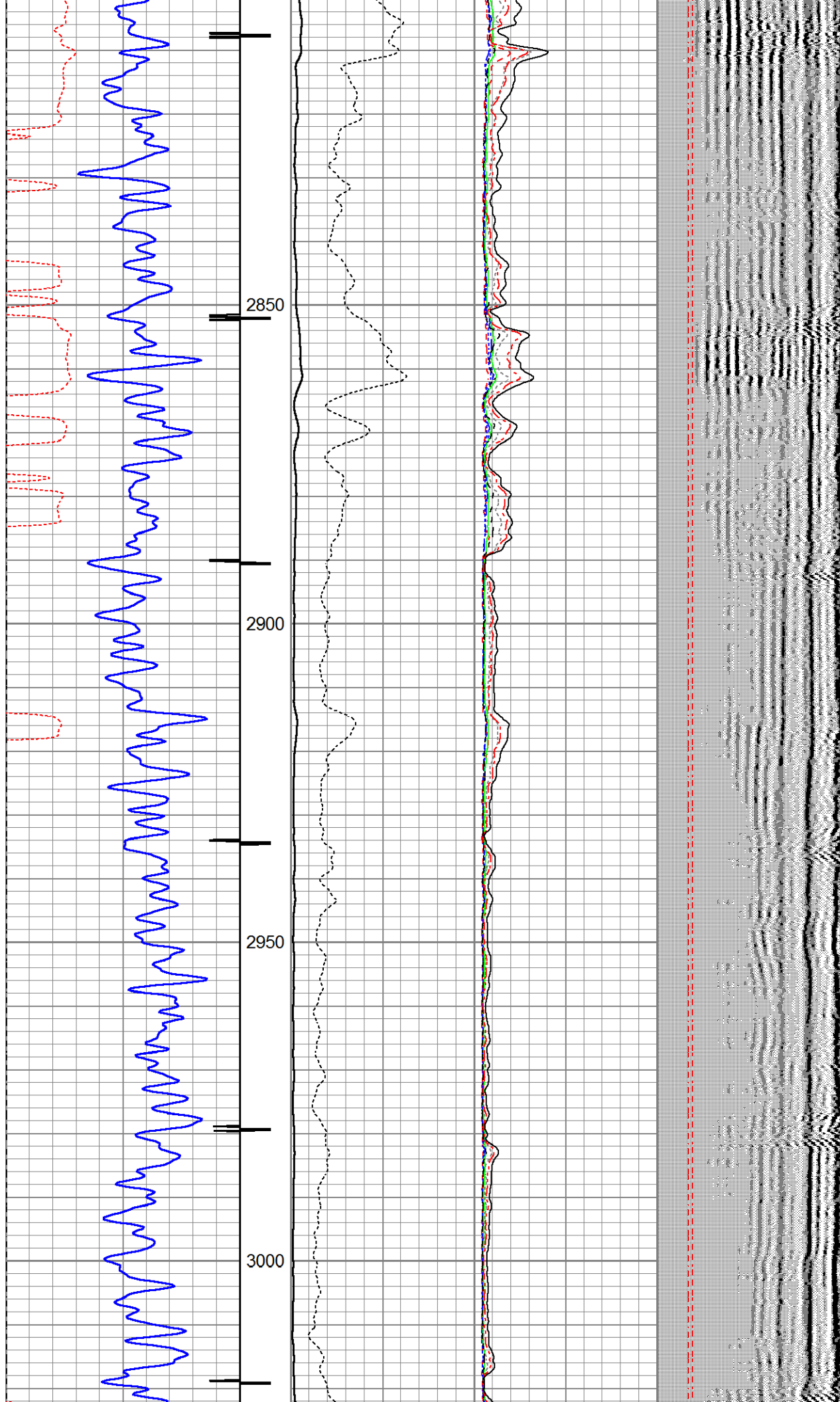


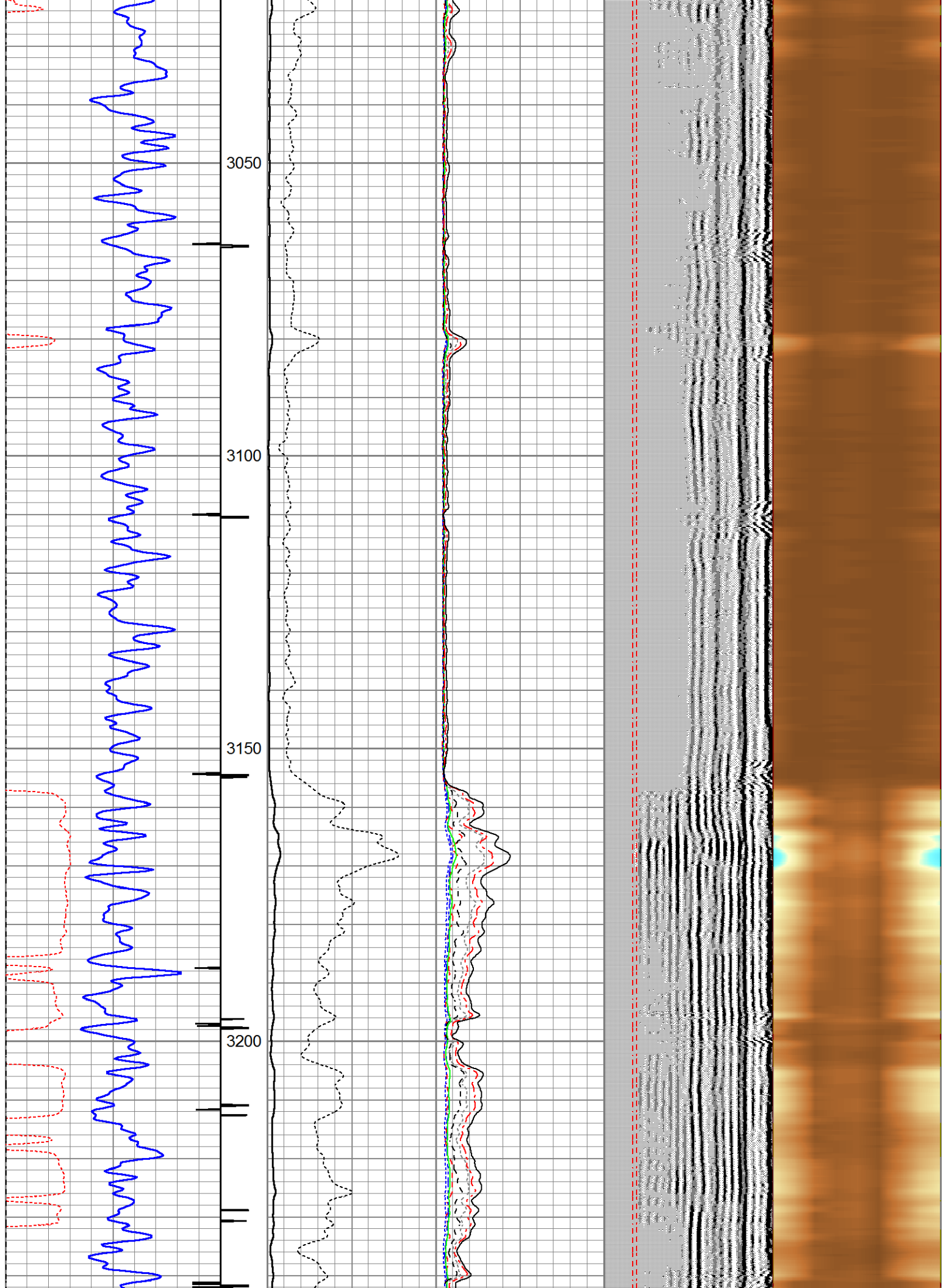


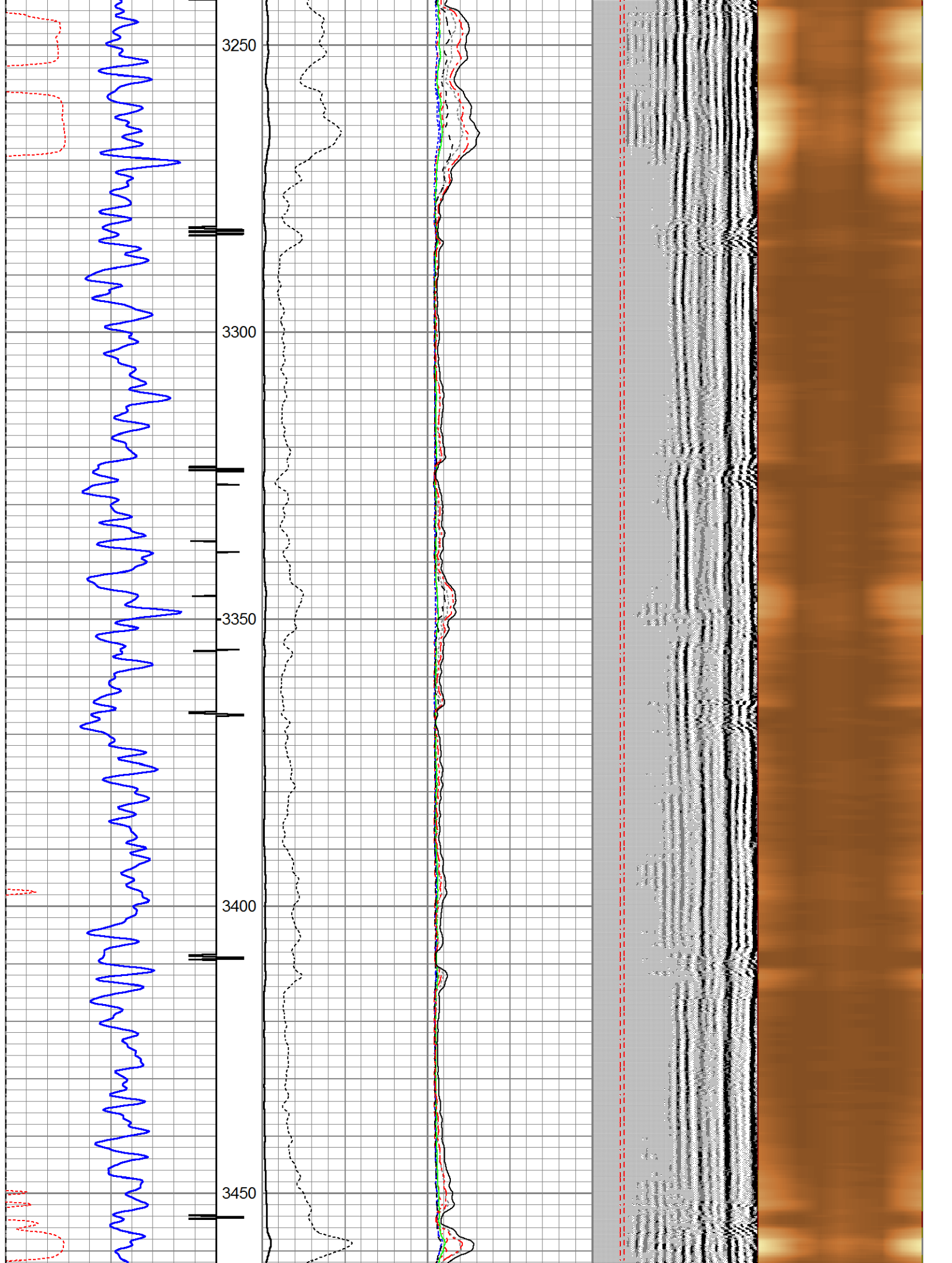


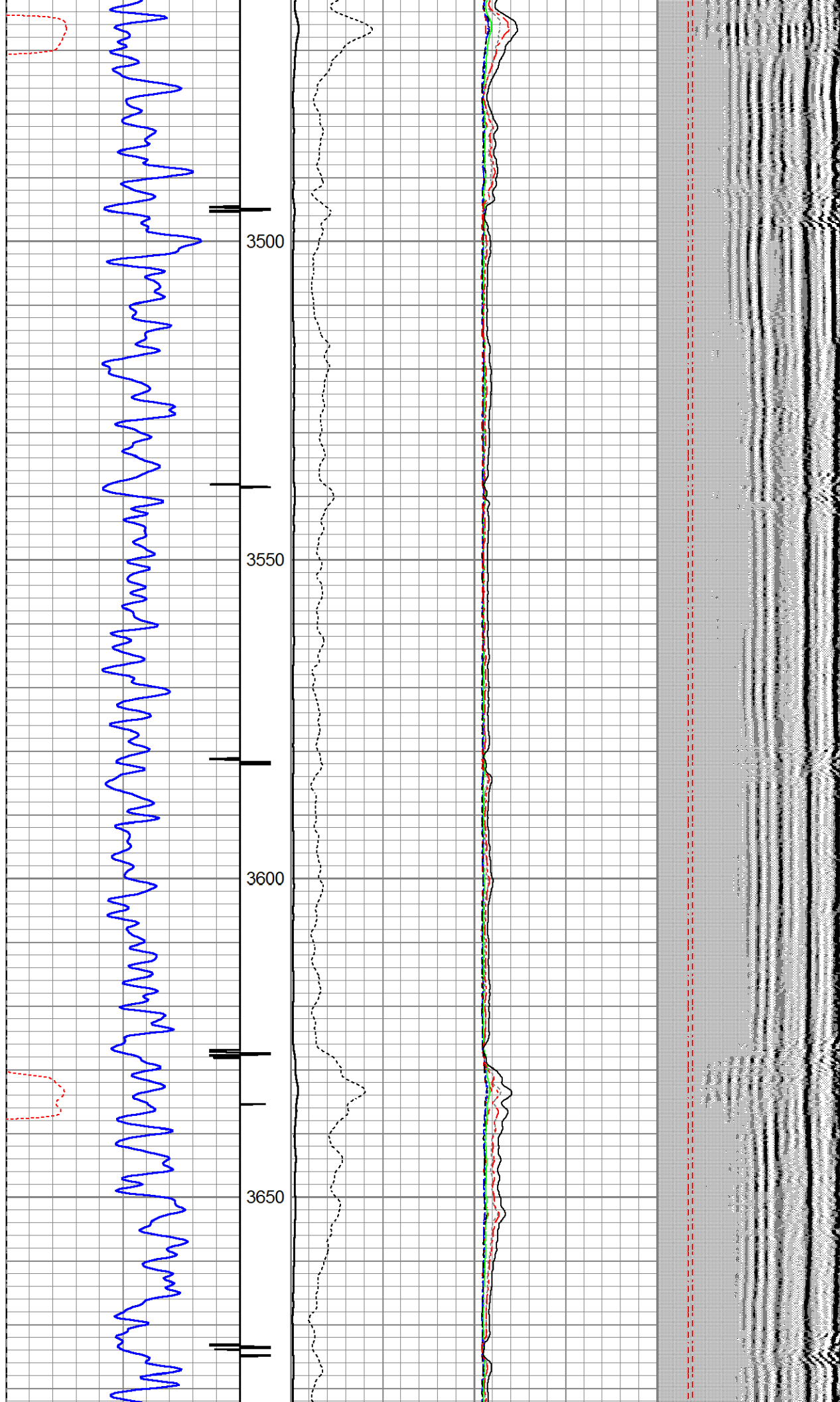


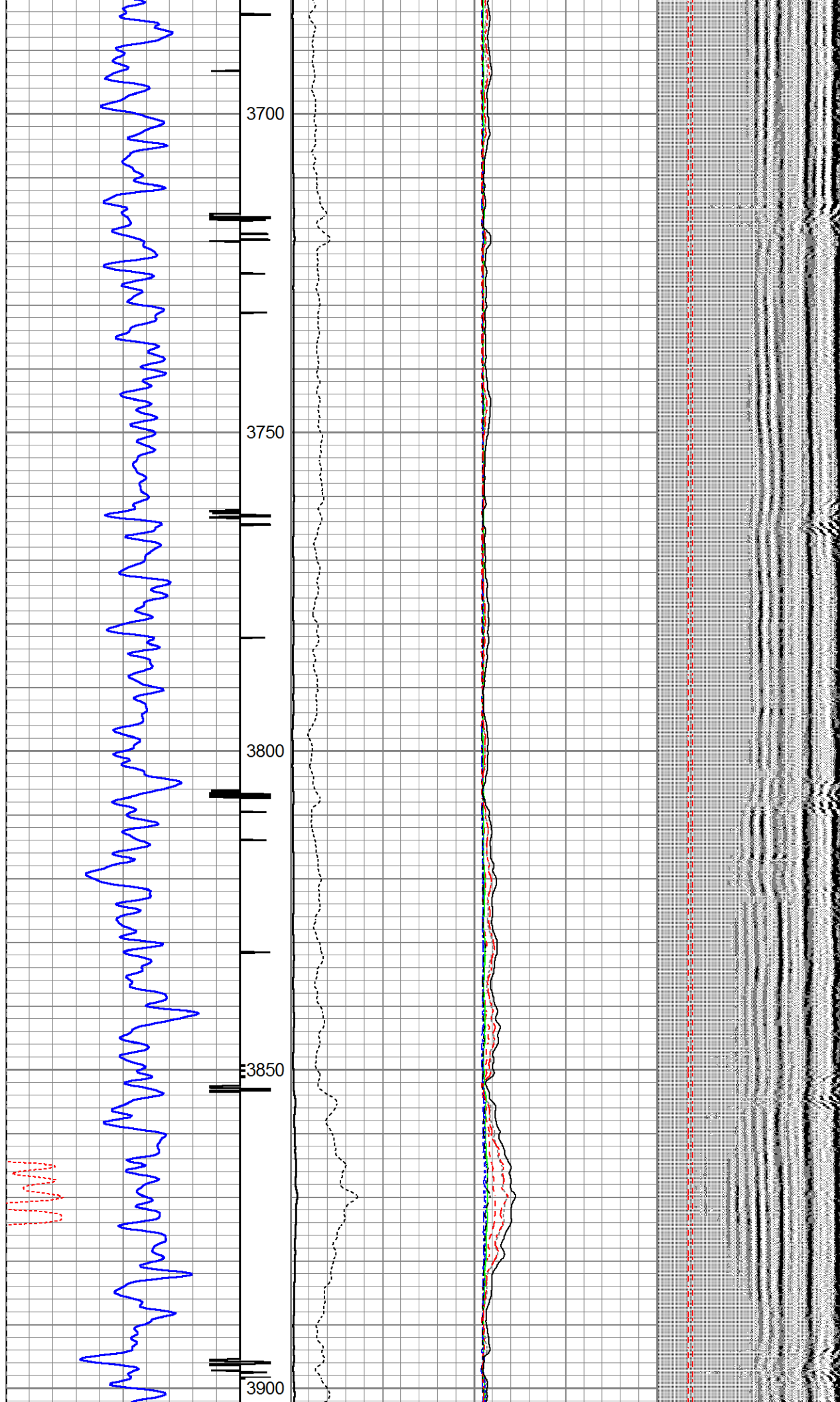


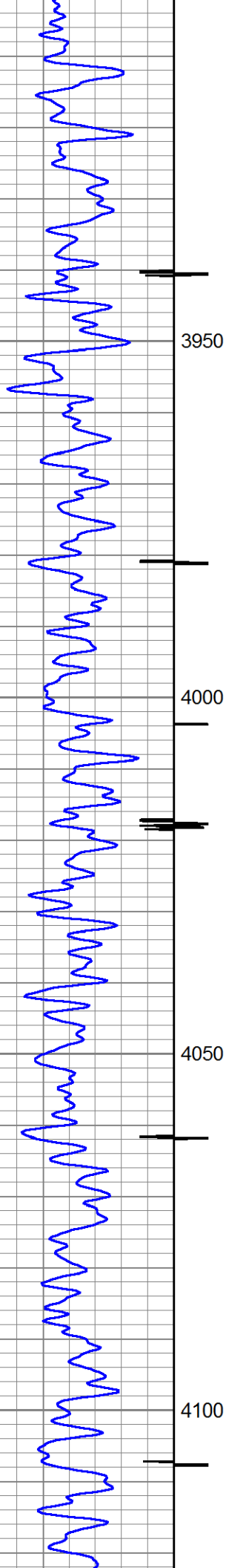










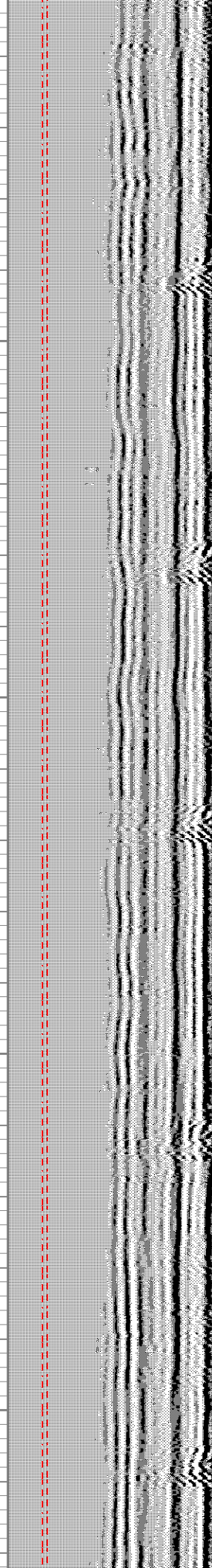
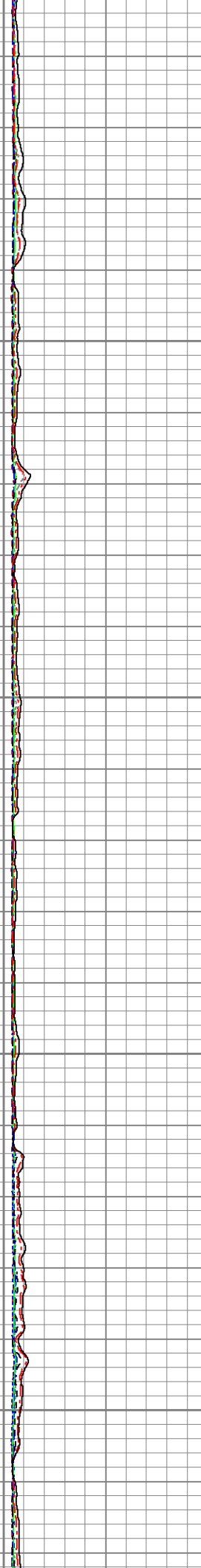
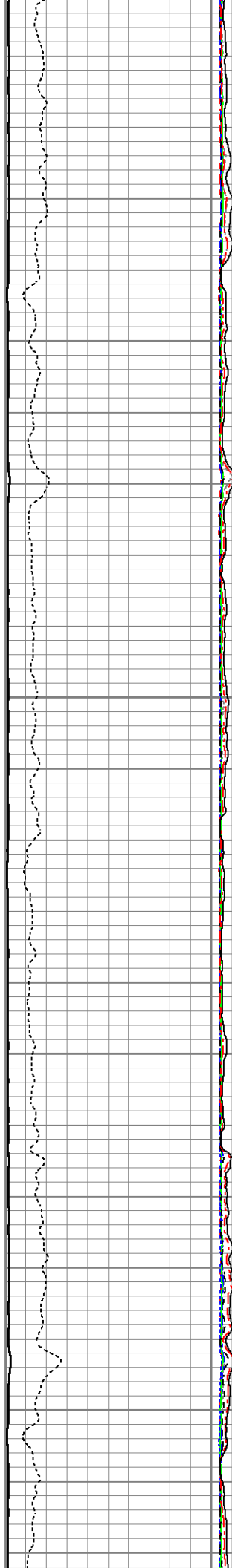


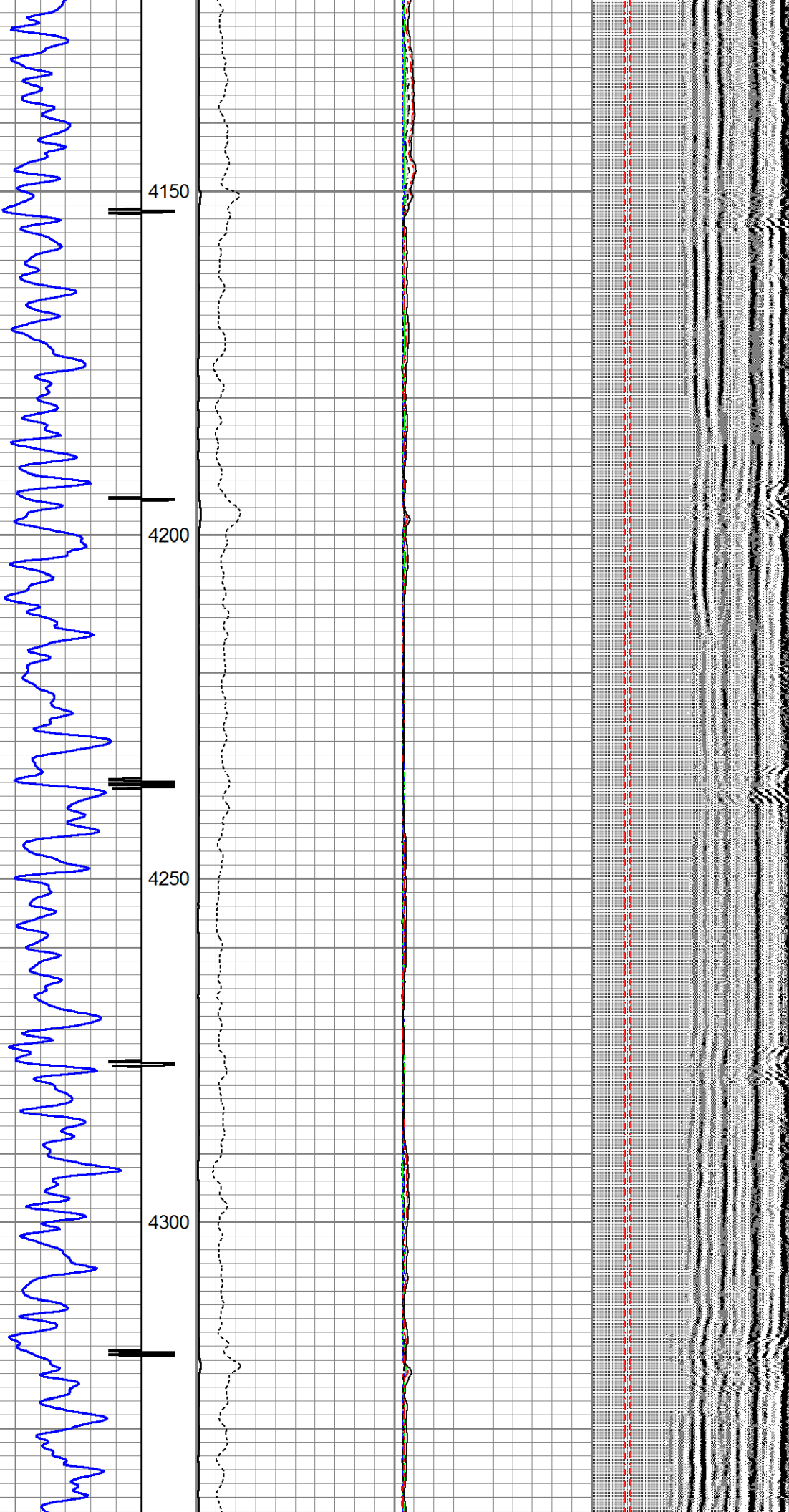
3950

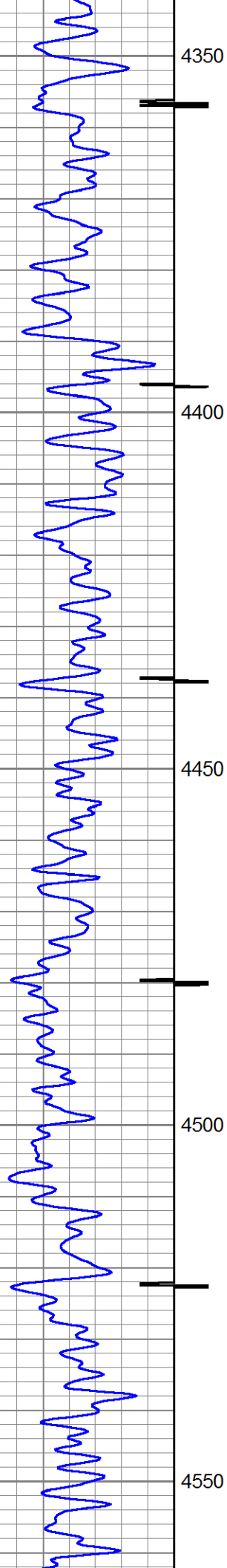
4000

4050

4100







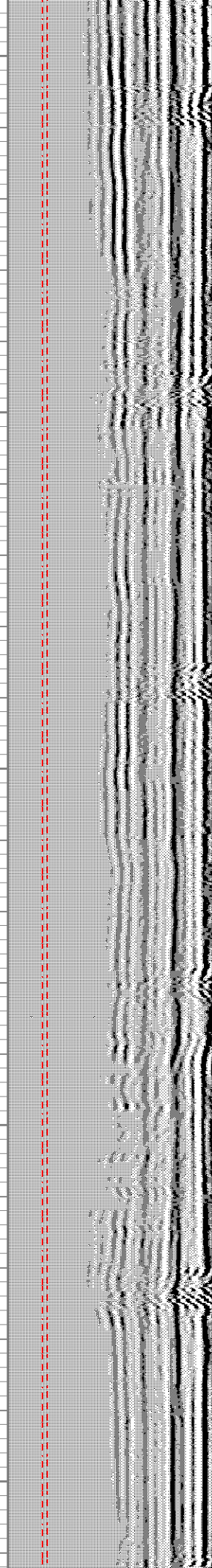
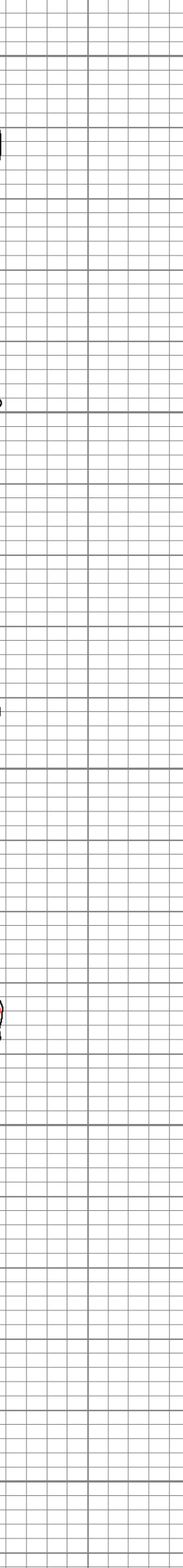
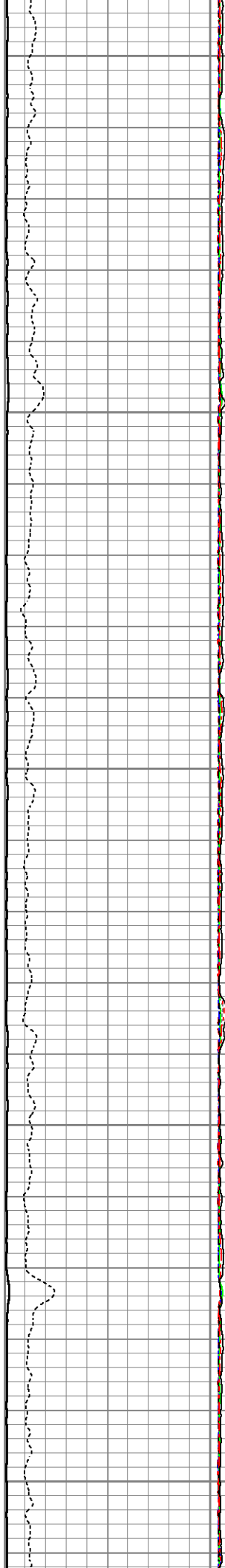
4350

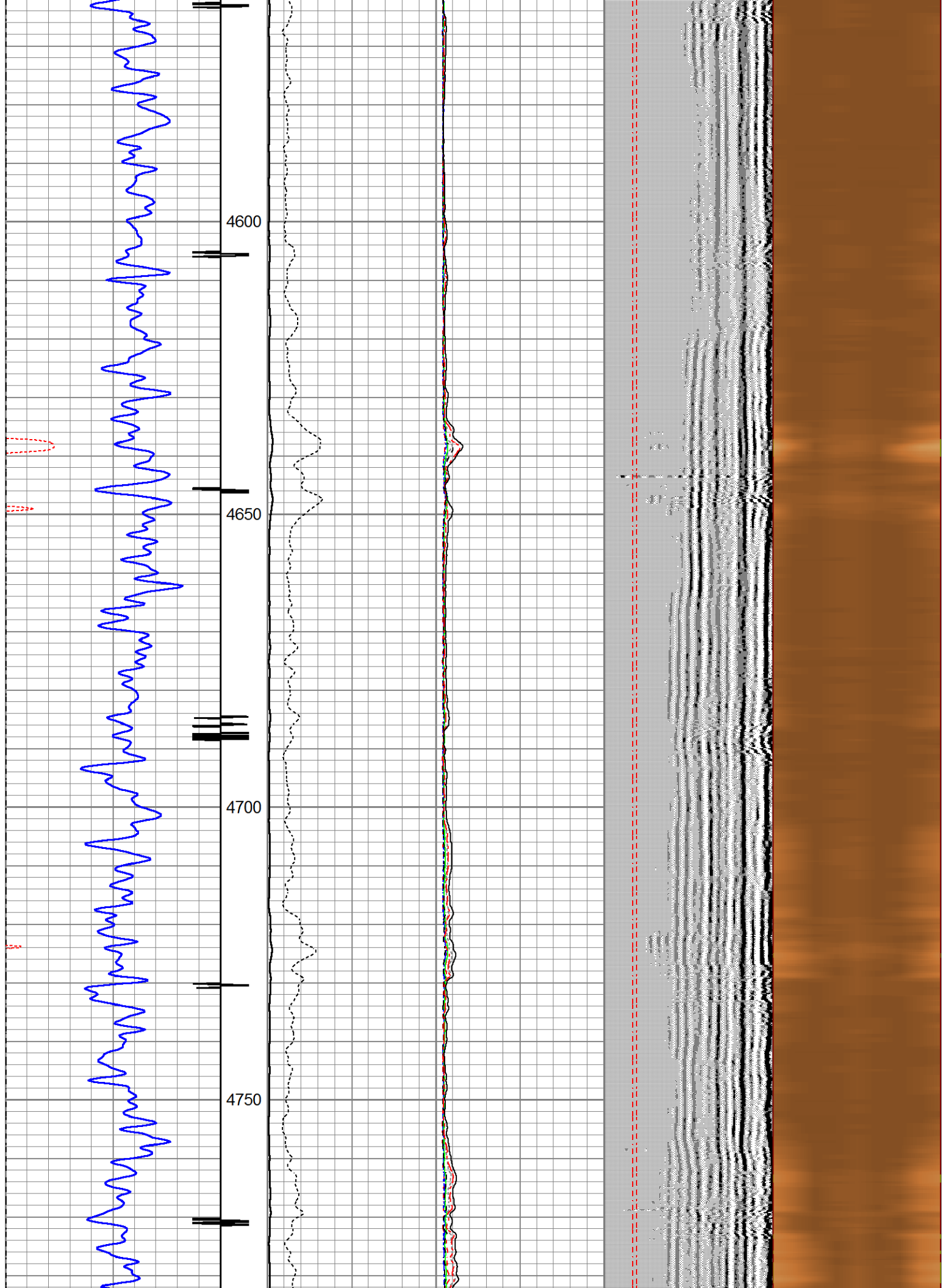
4400

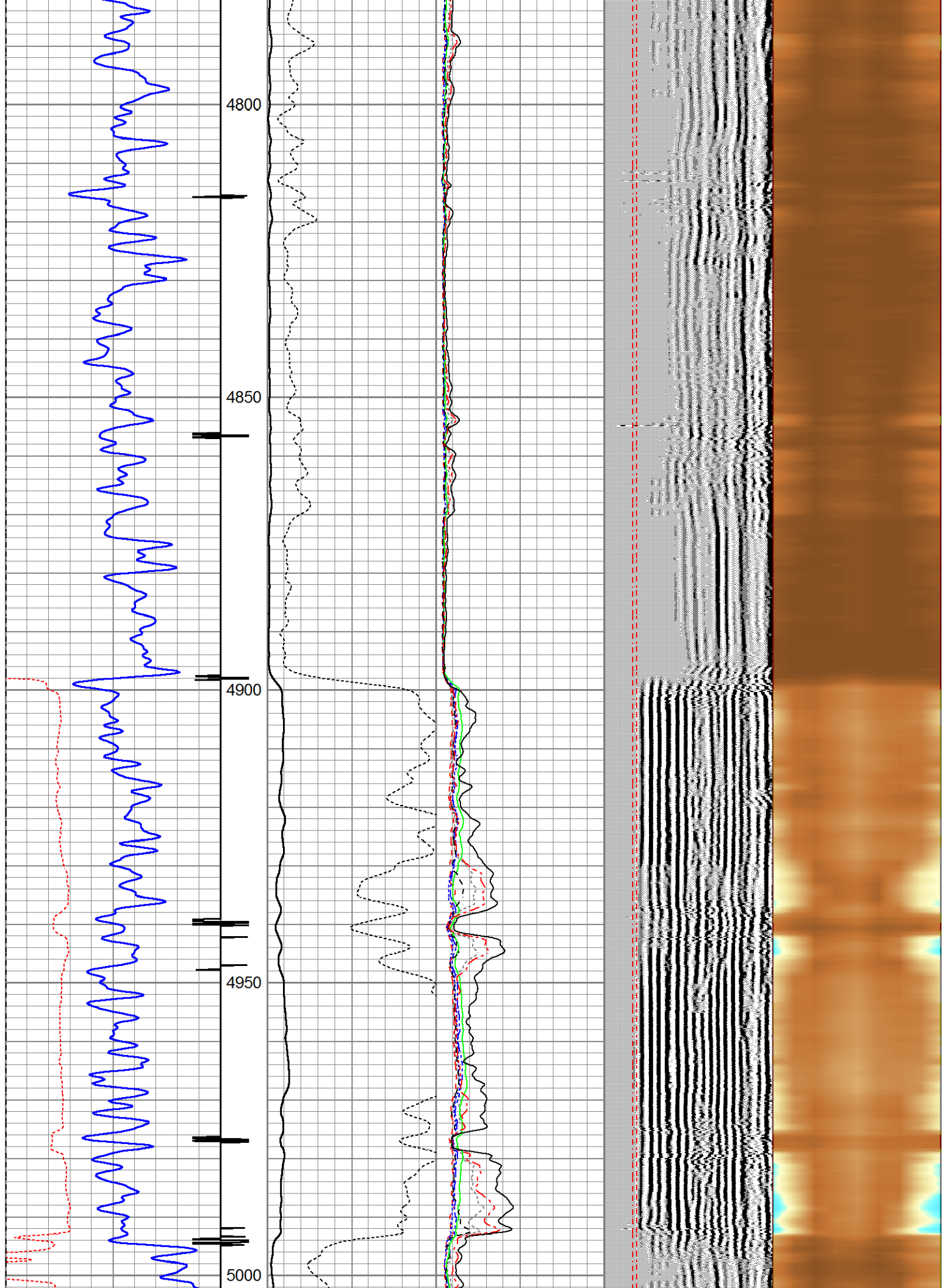
4450

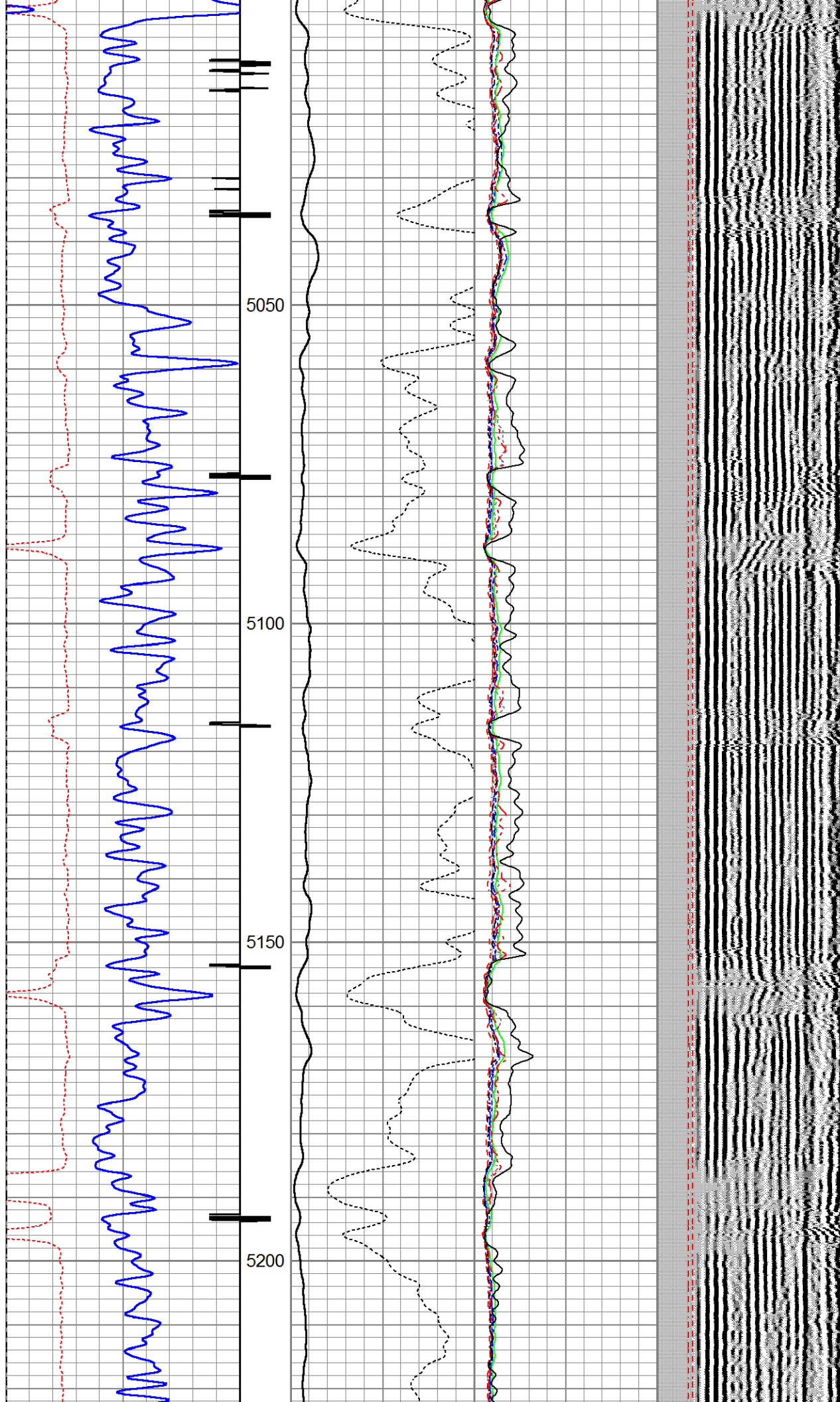
4500

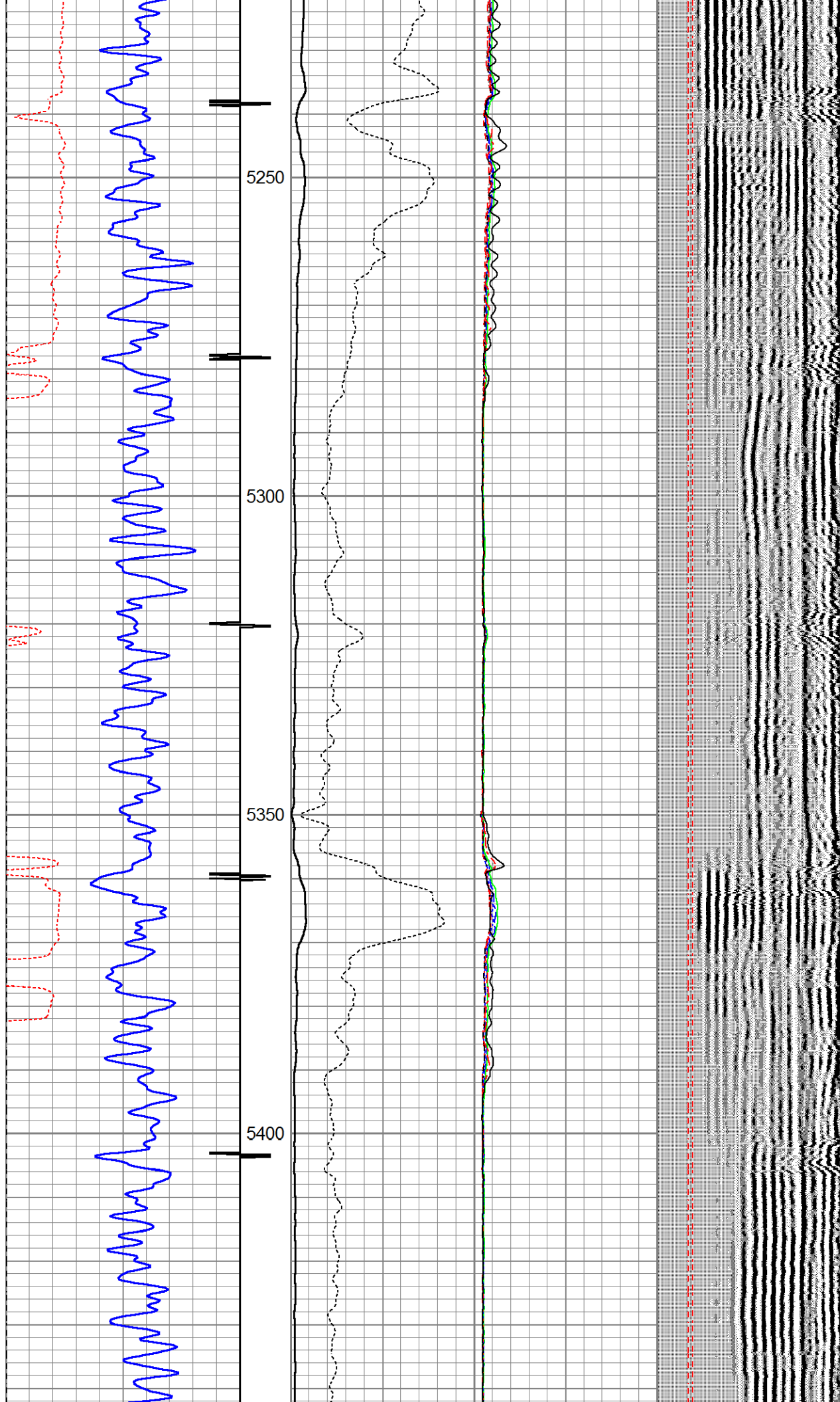
4550

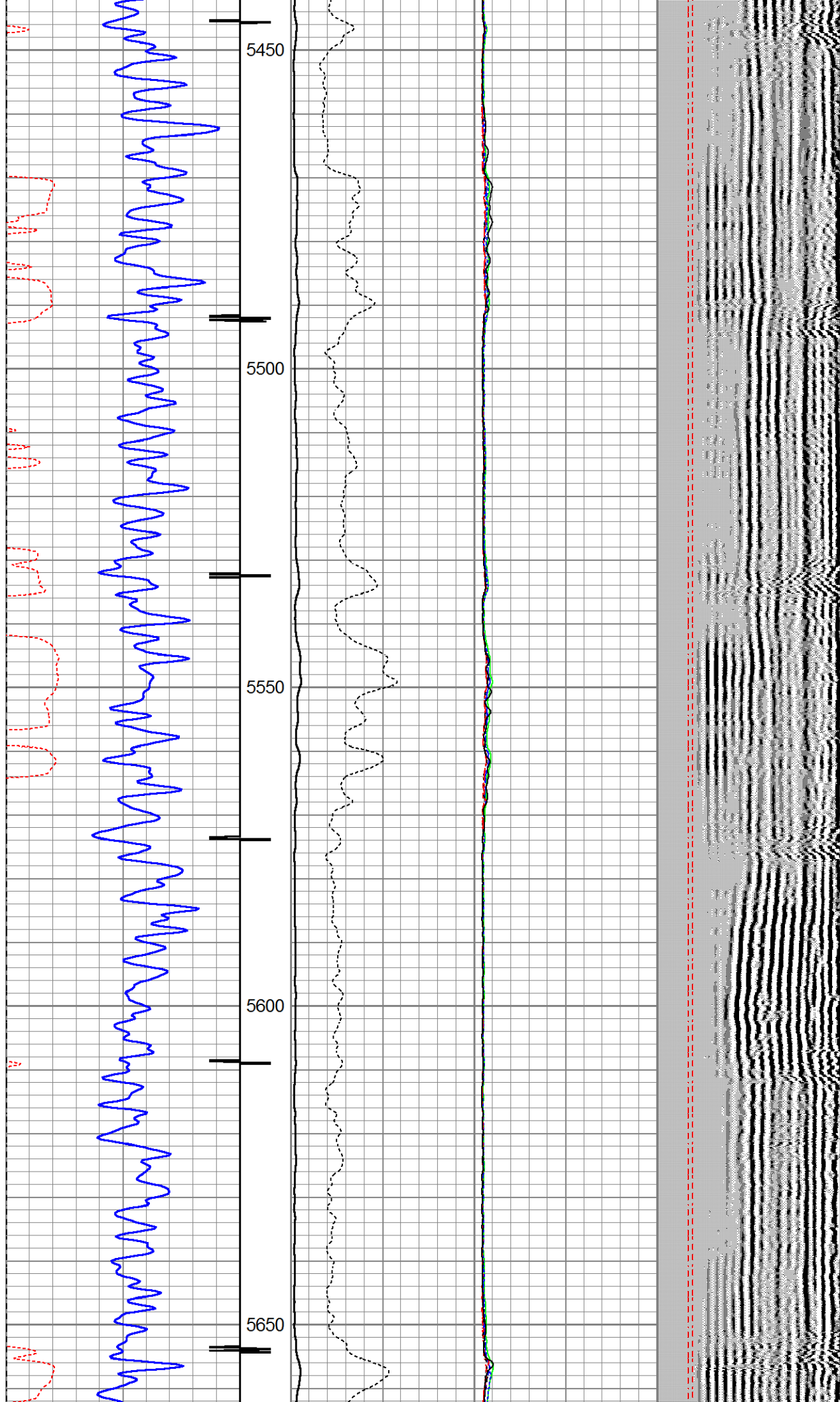


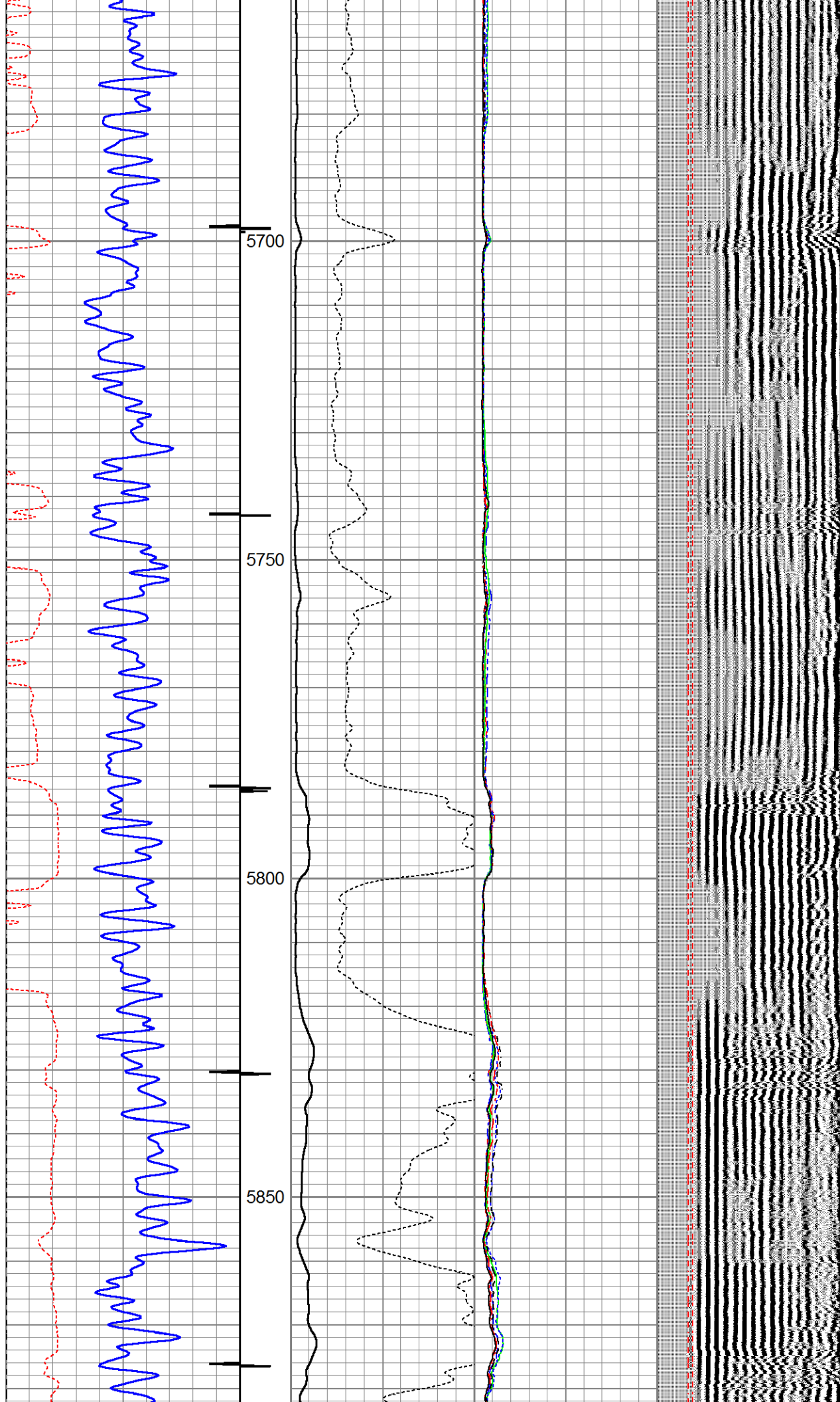


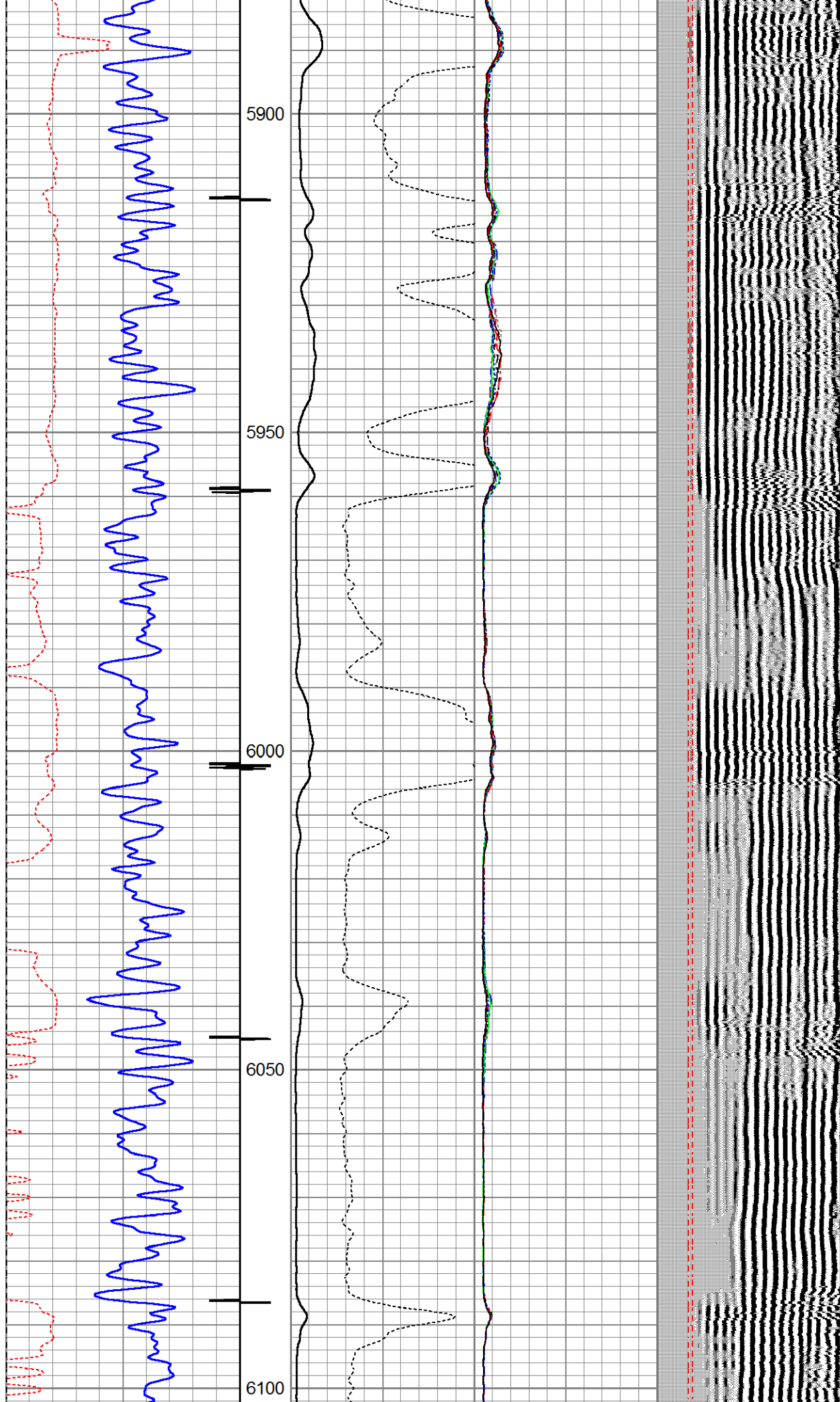


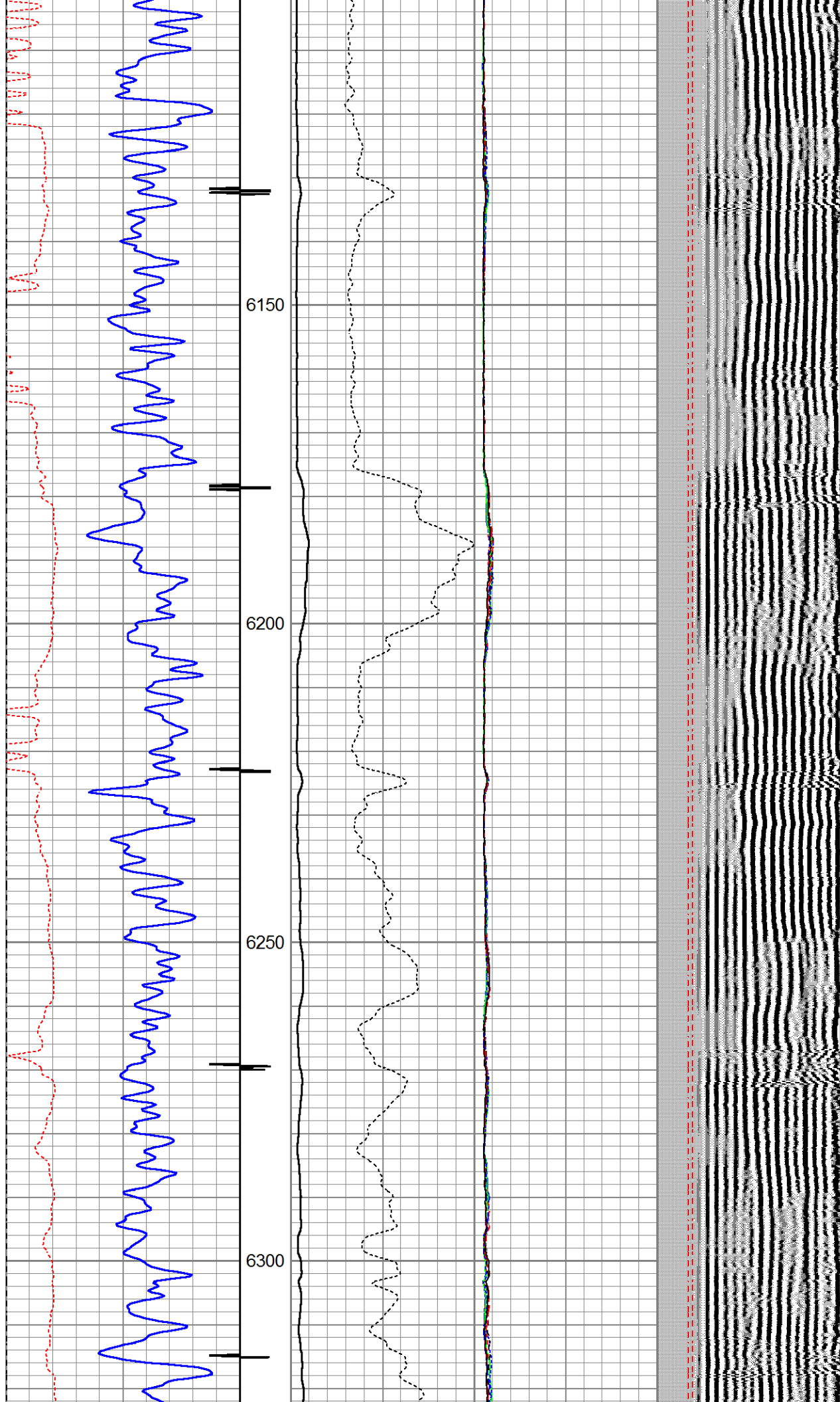


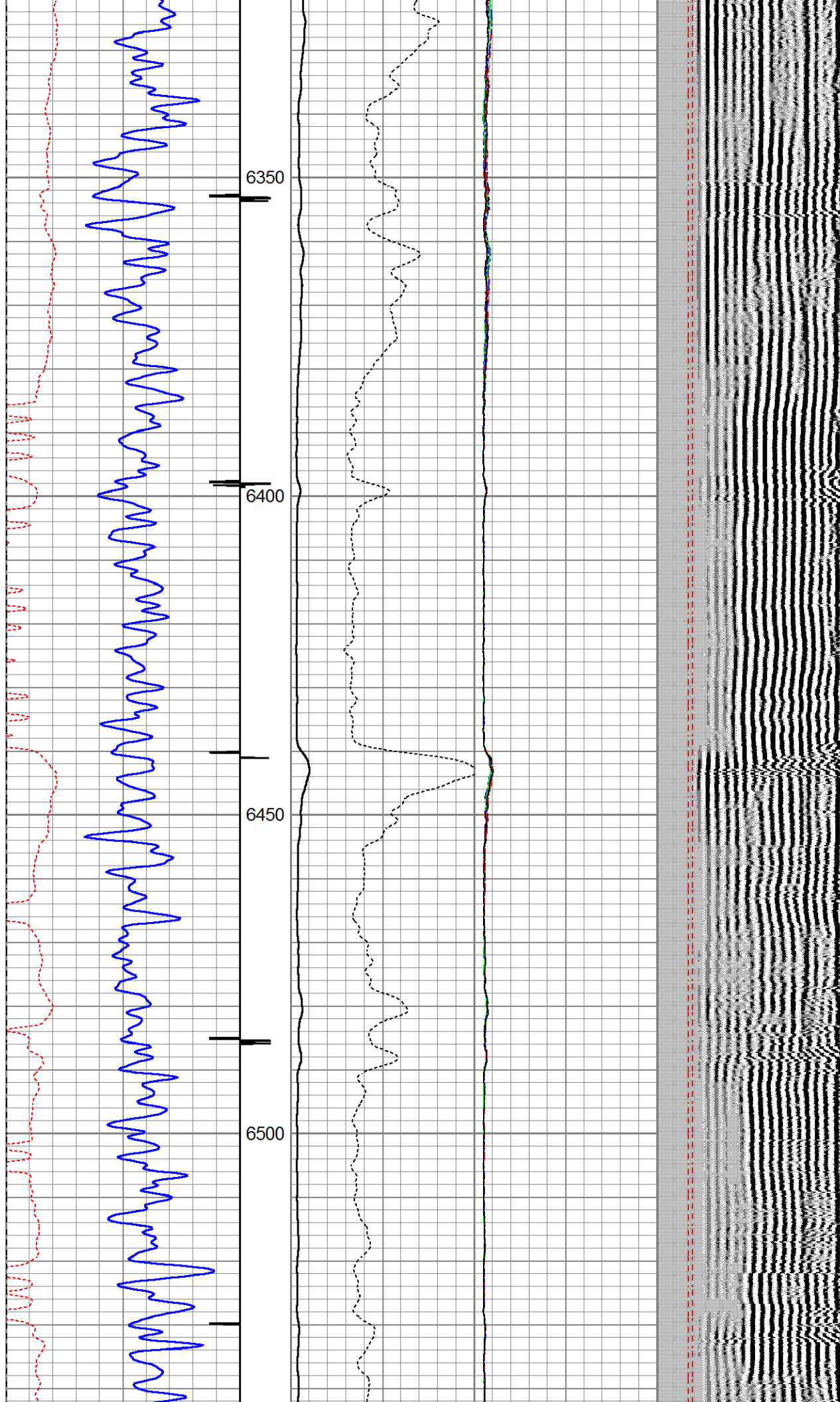


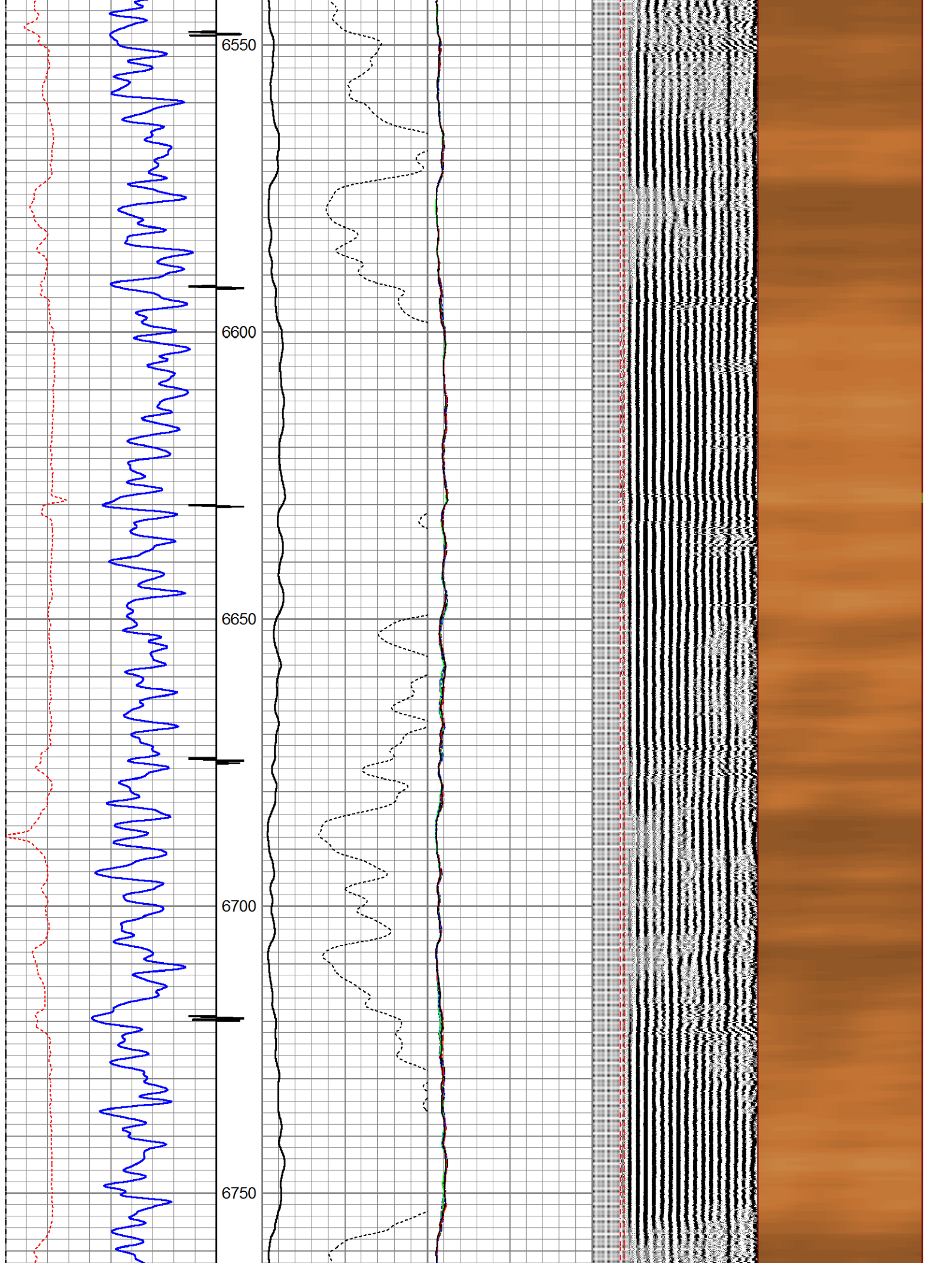


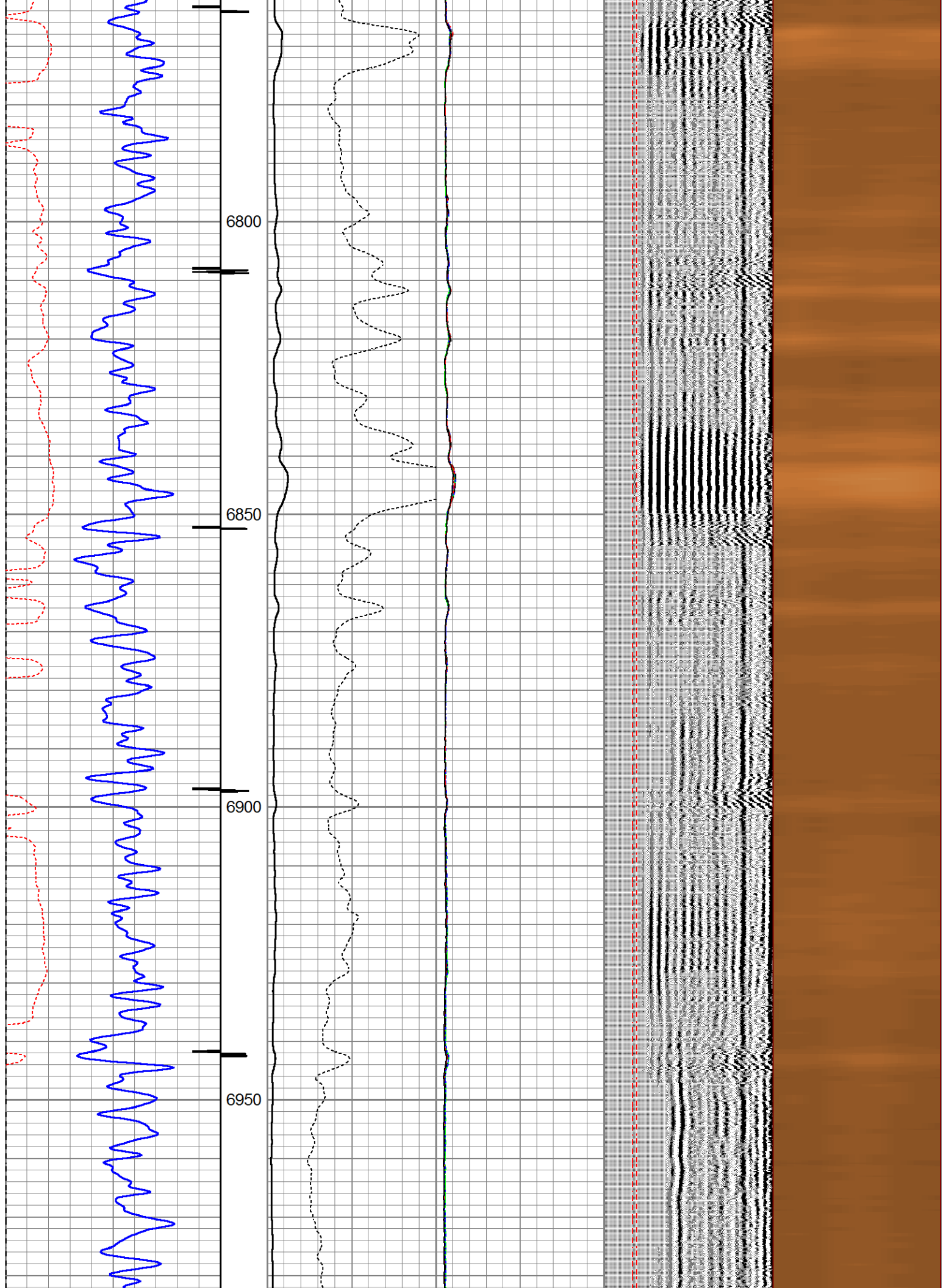


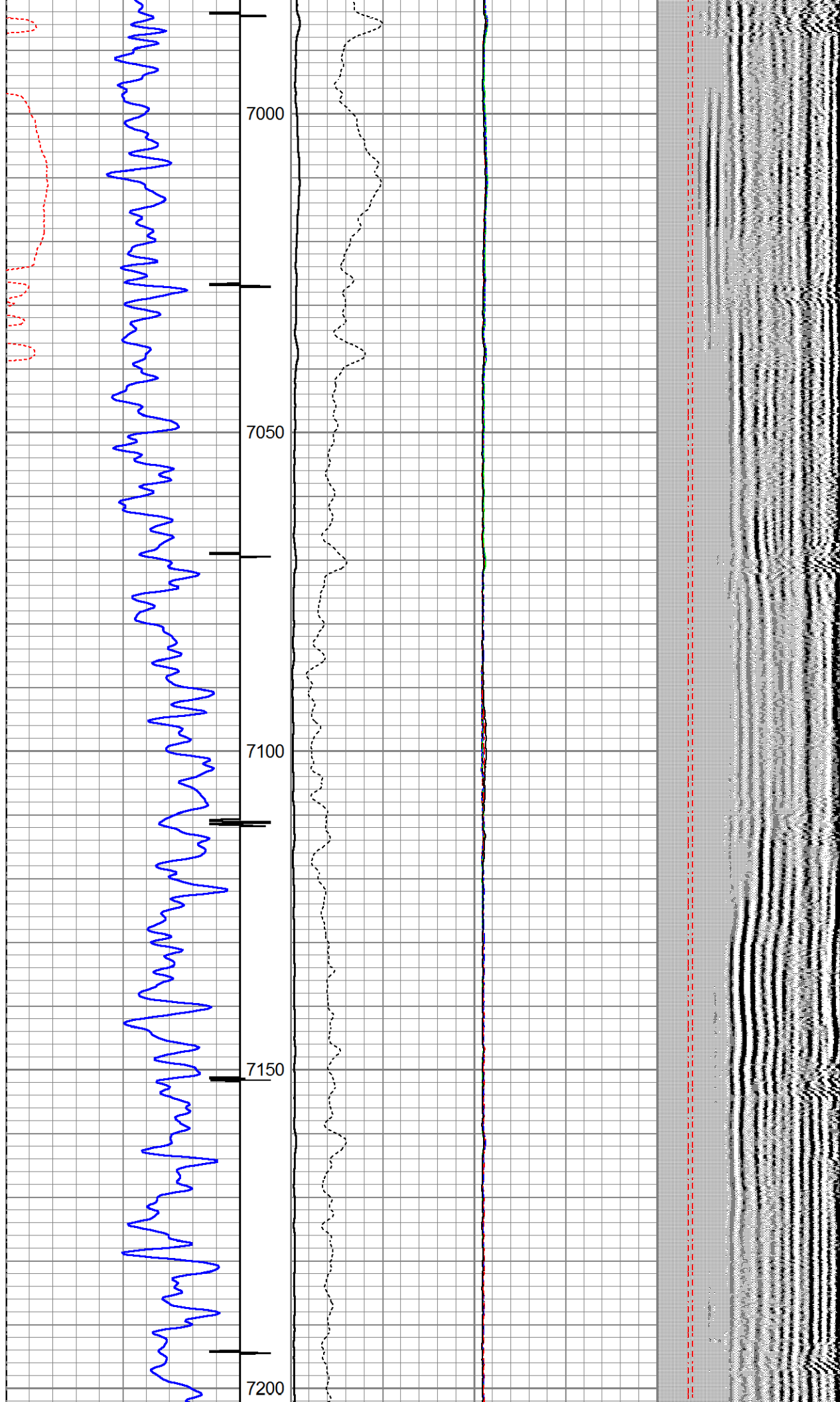


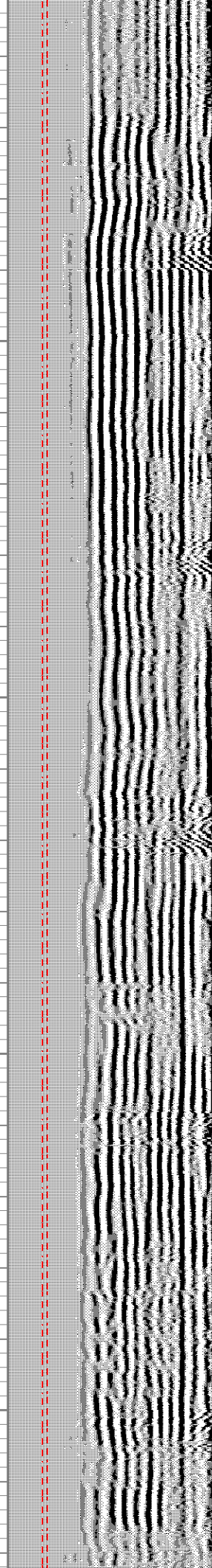
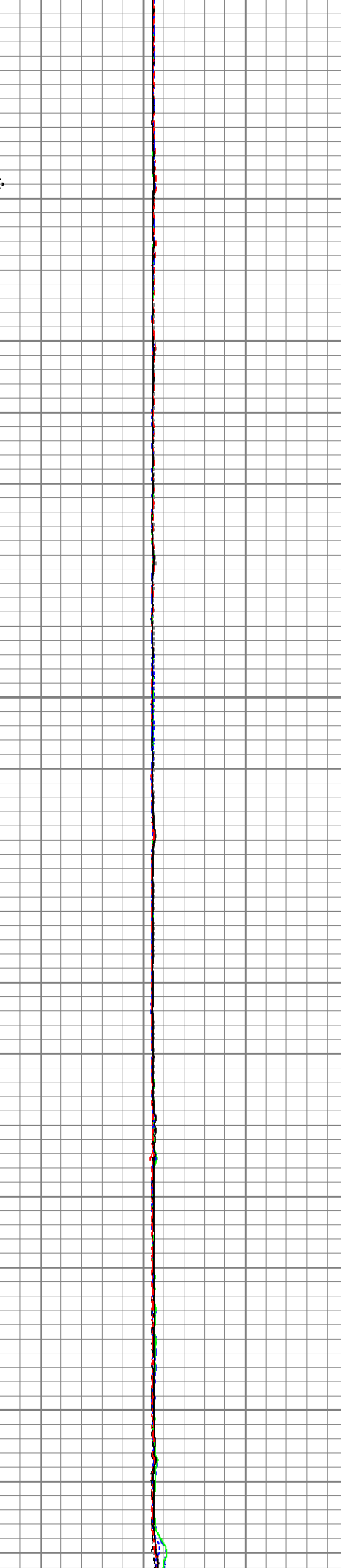
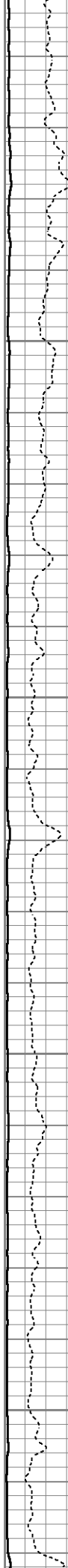
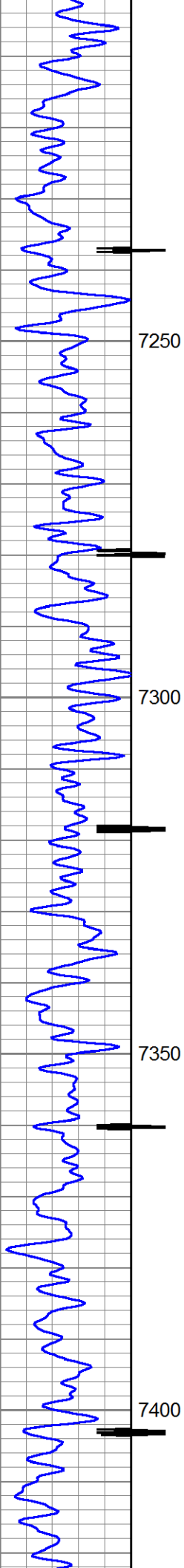


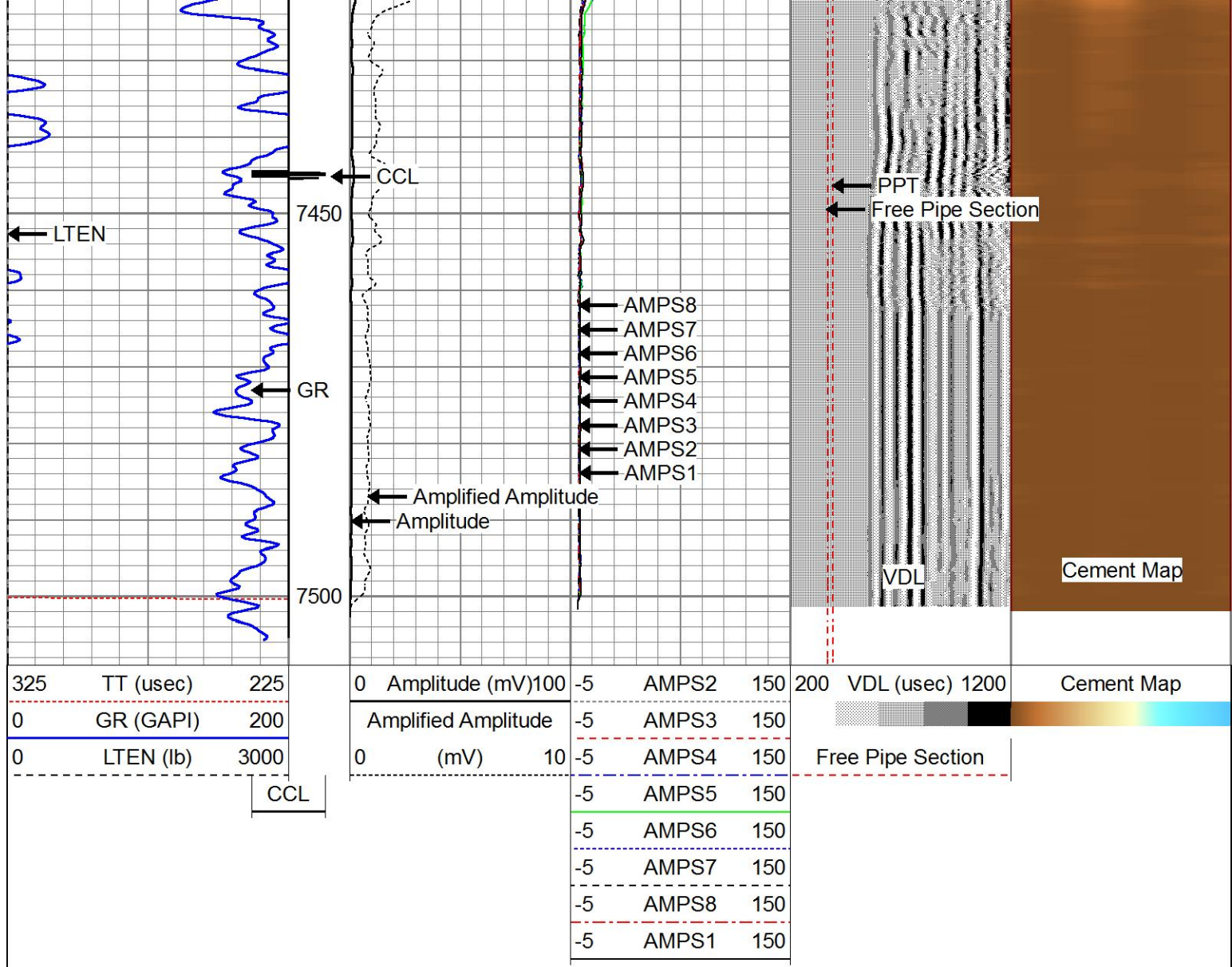












Company VERDAD RESOURCES LLC.
Well BOYD 24-01H
Field WATTENBERG
County WELD
State COLORADO