



Radial Cement Bond
Gamma Ray
Casing Collar Log

| | | | |
|------------------------|------------------------|----------------|--|
| Company | Caerus Piceance LLC. | Country | USA |
| Well | BJU B26 FED 11A-26-496 | | |
| Field | Grand Valley | | |
| County | Garfield | | |
| State | Colorado | | |
| Company | Caerus Piceance LLC. | Country | USA |
| Well | BJU B26 FED 11A-26-496 | | |
| Field | Grand Valley | | |
| County | Garfield | | |
| State | Colorado | | |
| Location: | API # : 05-045-24437 | Other Services | CNL |
| SEC 26 TWP 4S RGE 96W | | | |
| Permanent Datum | Ground Level | Elevation | 8211' |
| Log Measured From | Kelly Bushing | | |
| Drilling Measured From | Kelly Bushing | | |
| Elevation | | | K.B. 8241' D.F. 8240' G.L. 8211' |
| Date | 11-AUG-2022 | | |
| Run Number | One | | |
| Depth Driller | 12098 FT | | |
| Depth Logger | 11984 FT | | |
| Bottom Logged Interval | 11971 FT | | |
| Top Log Interval | Surface | | |
| Open Hole Size | 8.750" | | |
| Type Fluid | Fresh Water | | |
| Density / Viscosity | 8.34 lb/gal | | |
| Max. Recorded Temp. | 300° F | | |
| Estimated Cement Top | See Log | | |
| Time Well Ready | ROA | | |
| Time Logger on Bottom | 10:50 | | |
| Equipment Number | 8093 | | |
| Location | Grand Junction, Co. | | |
| Recorded By | P. Edwards | | |
| Witnessed By | R. Tompkins | | |
| Borehole Record | | | |
| Run Number | Bit | From | To |
| | 8.75" | Surface | 12098' |
| Tubing Record | | | |
| | Size | Weight | From |
| | | | To |
| Casing Record | Size | Wgt/Ft | Top |
| Surface String | 9.625" | 36 | Surface |
| Prot. String | 4.5" | 11.6 | Surface |
| Production String | | | Bottom |
| Liner | | | 3003 FT |
| | | | 12082 FT |

<<<< 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 ran as per customer request.
Depth referenced to Kelly Bushing @ 30FT
Marker Joint from 8011 FT - 8021 FT
Log ran from 11984 FT to Surface
Log ran with 0 PSI surface induced pressure.

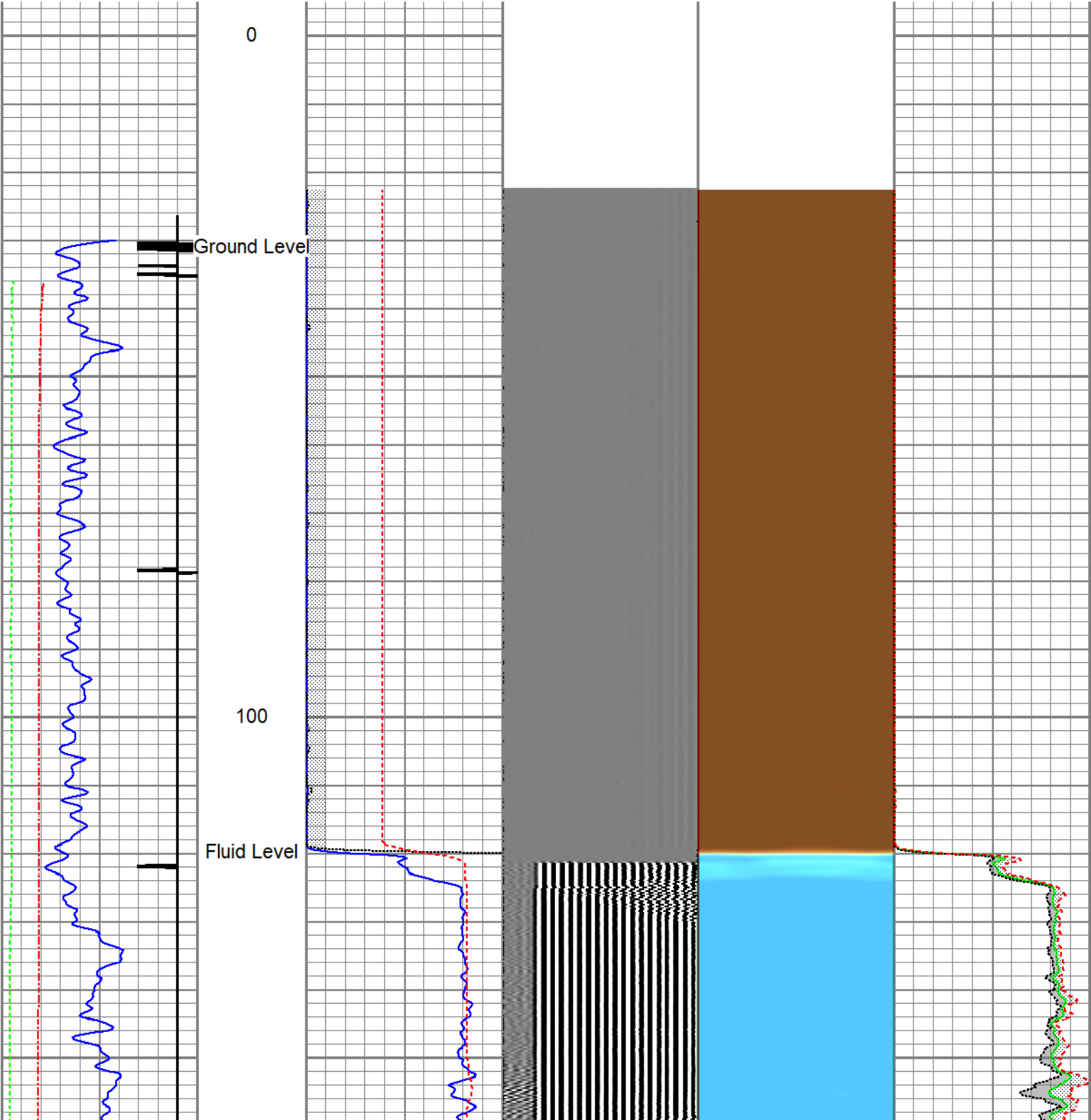
Thank you for choosing The Wireline Group!!!

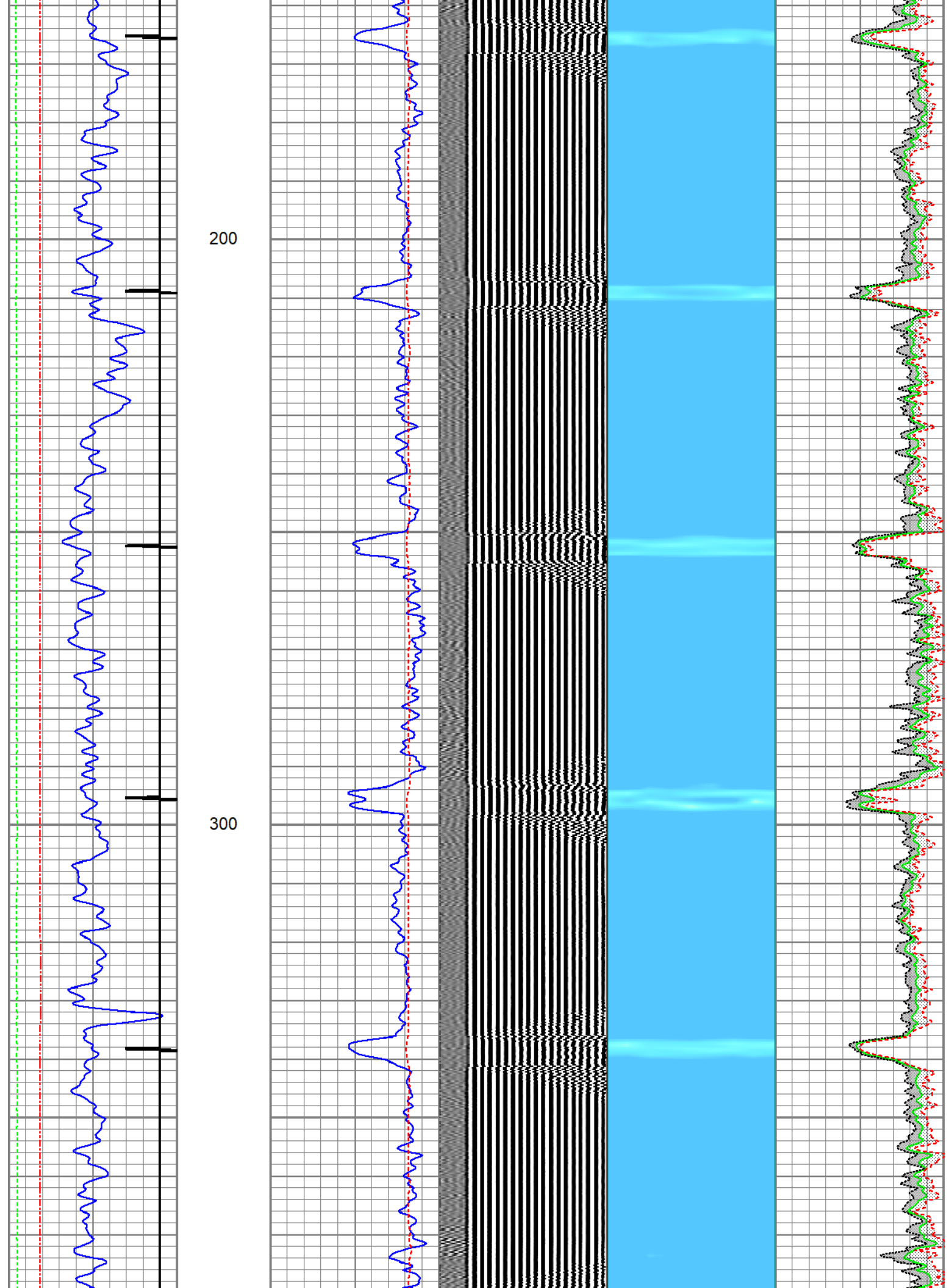


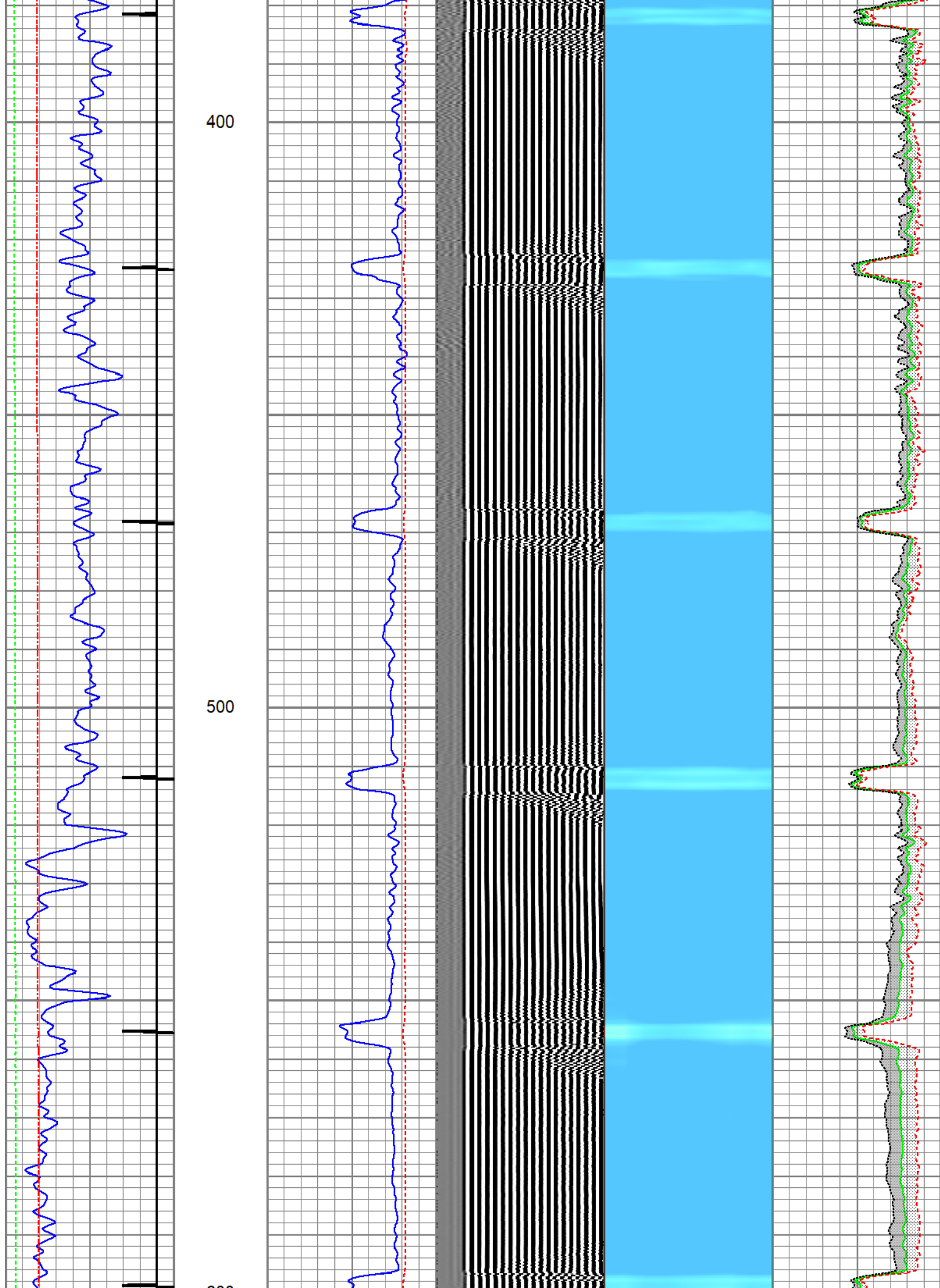
Main Pass 5" = 100'

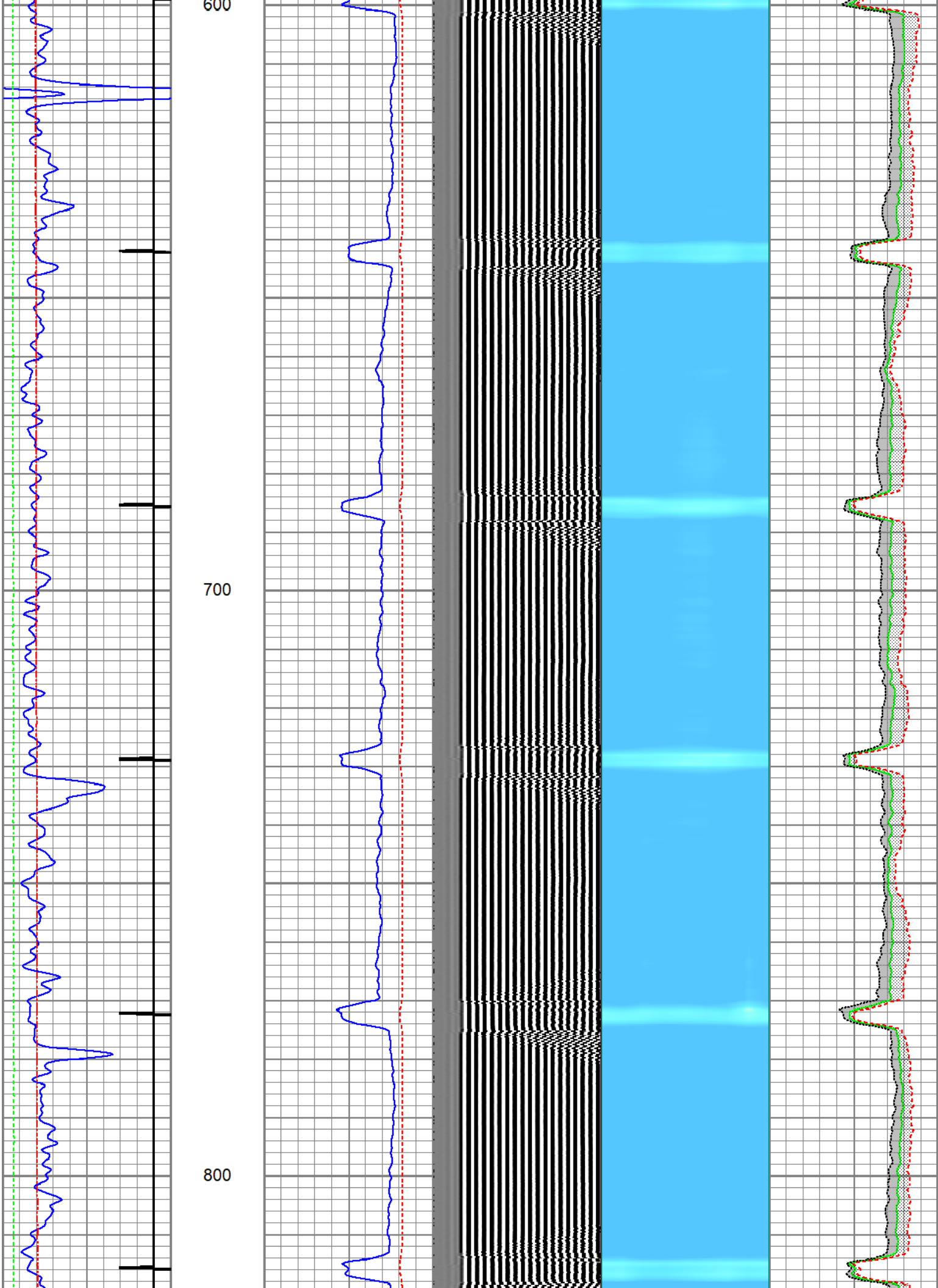
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Dataset Pathname main
Presentation Format twgrcbl
Dataset Creation Thu Aug 11 10:50:55 2022
Charted by Depth in Feet scaled 1:240

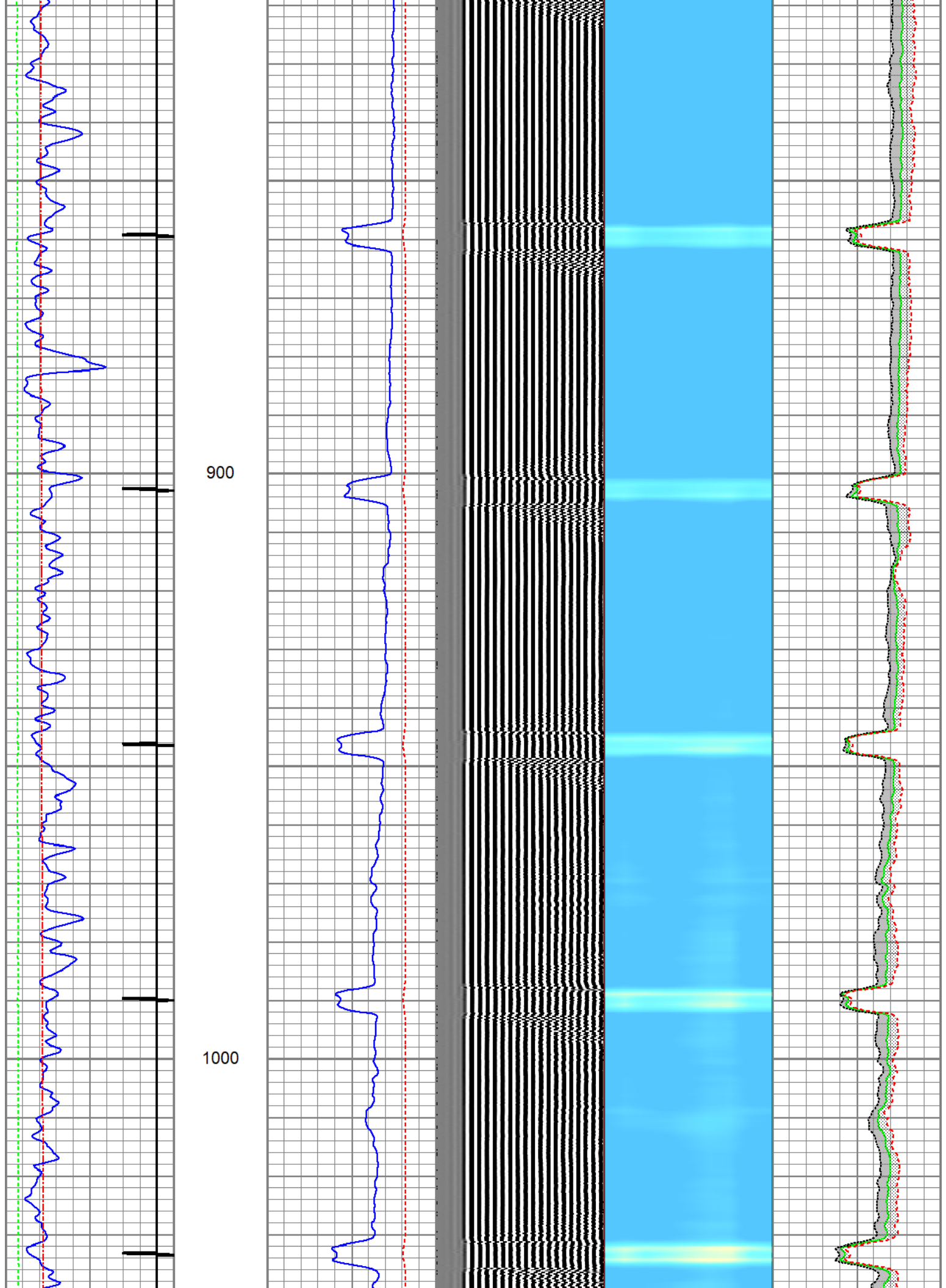
| Gamma Ray | | | 3' Amplitude | | | 5' Variable Density Log | | | Sector Map | | | Average Amplitude | | |
|--------------|-------------|------|------------------|--------|-----|--|--------|------|---|--|--|-------------------|--|-----|
| 0 | (GAPI) | 200 | 0 | (mV) | 100 | 200 | (usec) | 1200 |  | | | 0 | | 120 |
| Line Tension | | | 3' Amplitude x 5 | | | | | | | | | Minimum Amplitude | | |
| 0 | (lb) | 4000 | 0 | (mV) | 20 |  | | | | | | 0 | | 120 |
| 0 | Temp (degF) | 310 | 3' Travel Time | | | | | | | | | Maximum Amplitude | | |
| -9 | CCL | 1 | 650 | (usec) | 150 | | | | | | | 0 | | 120 |

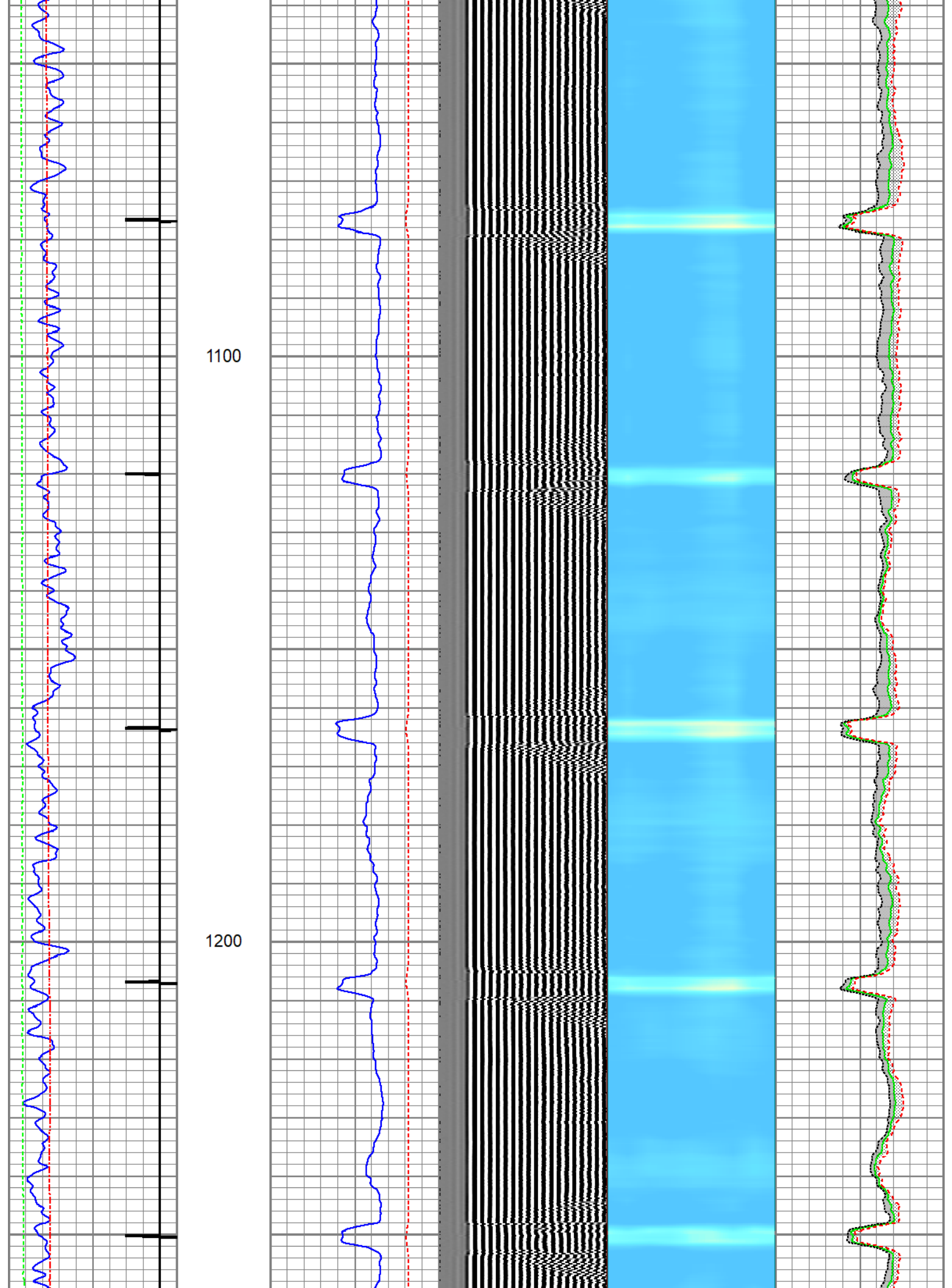


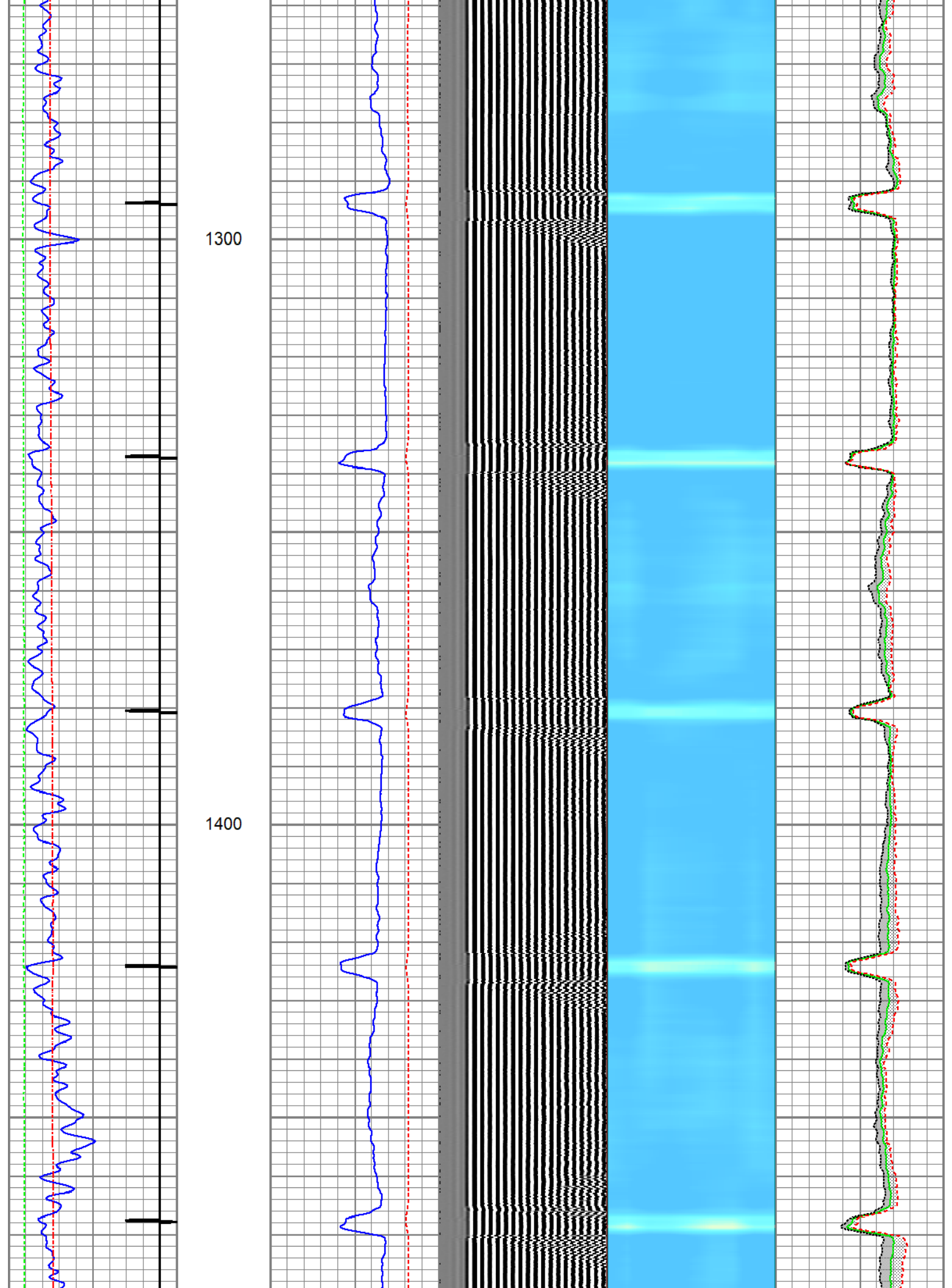


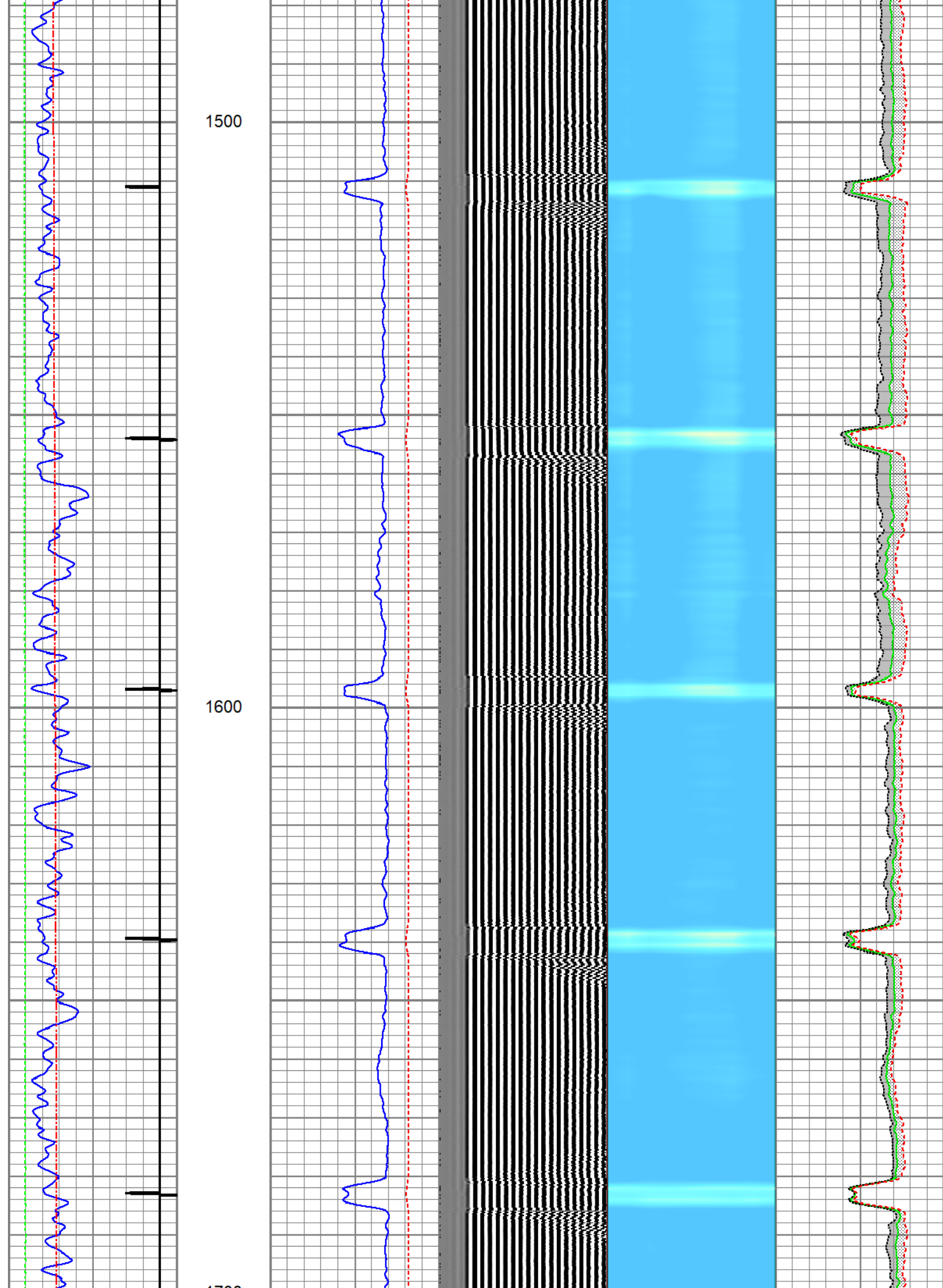


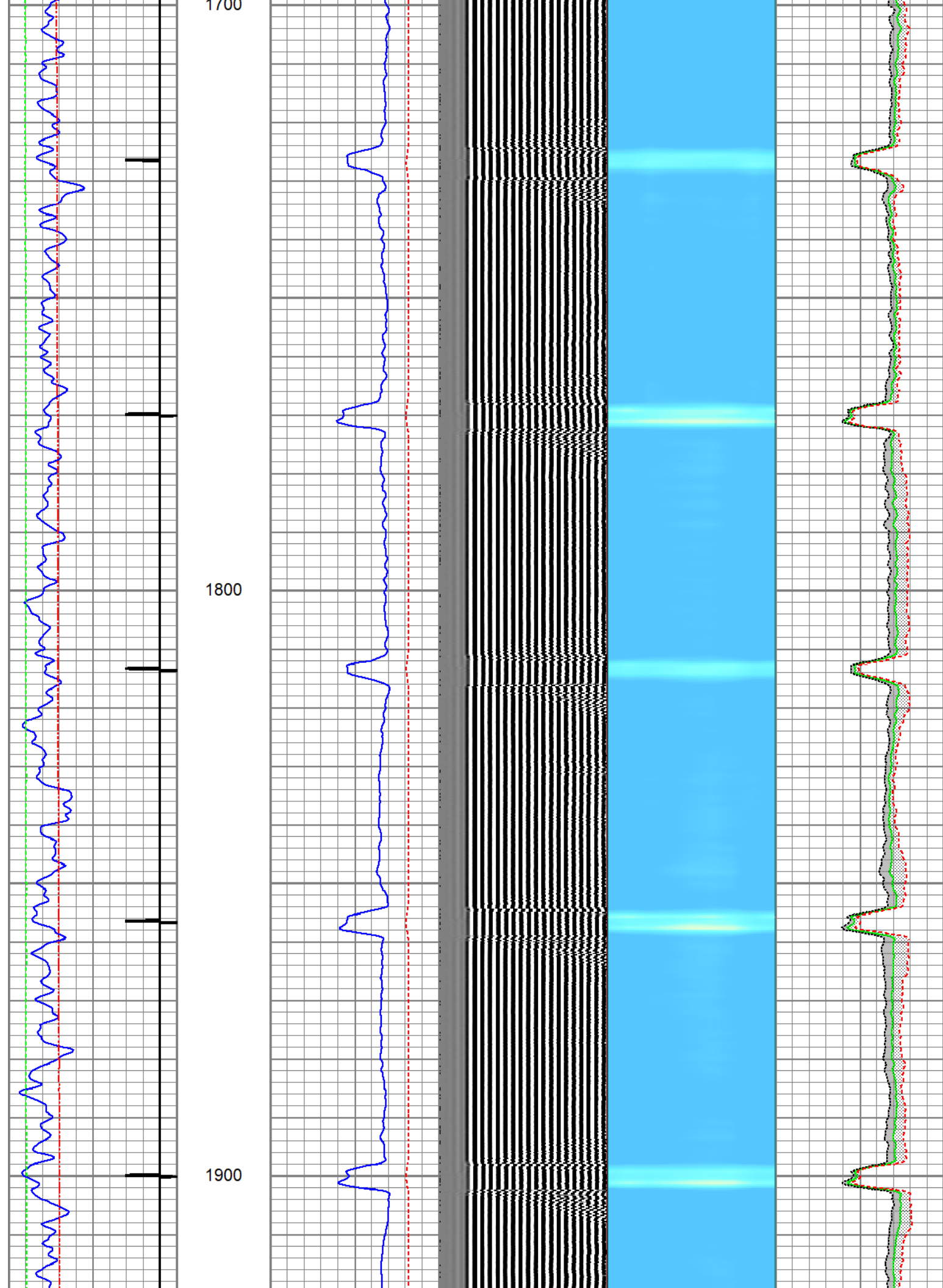


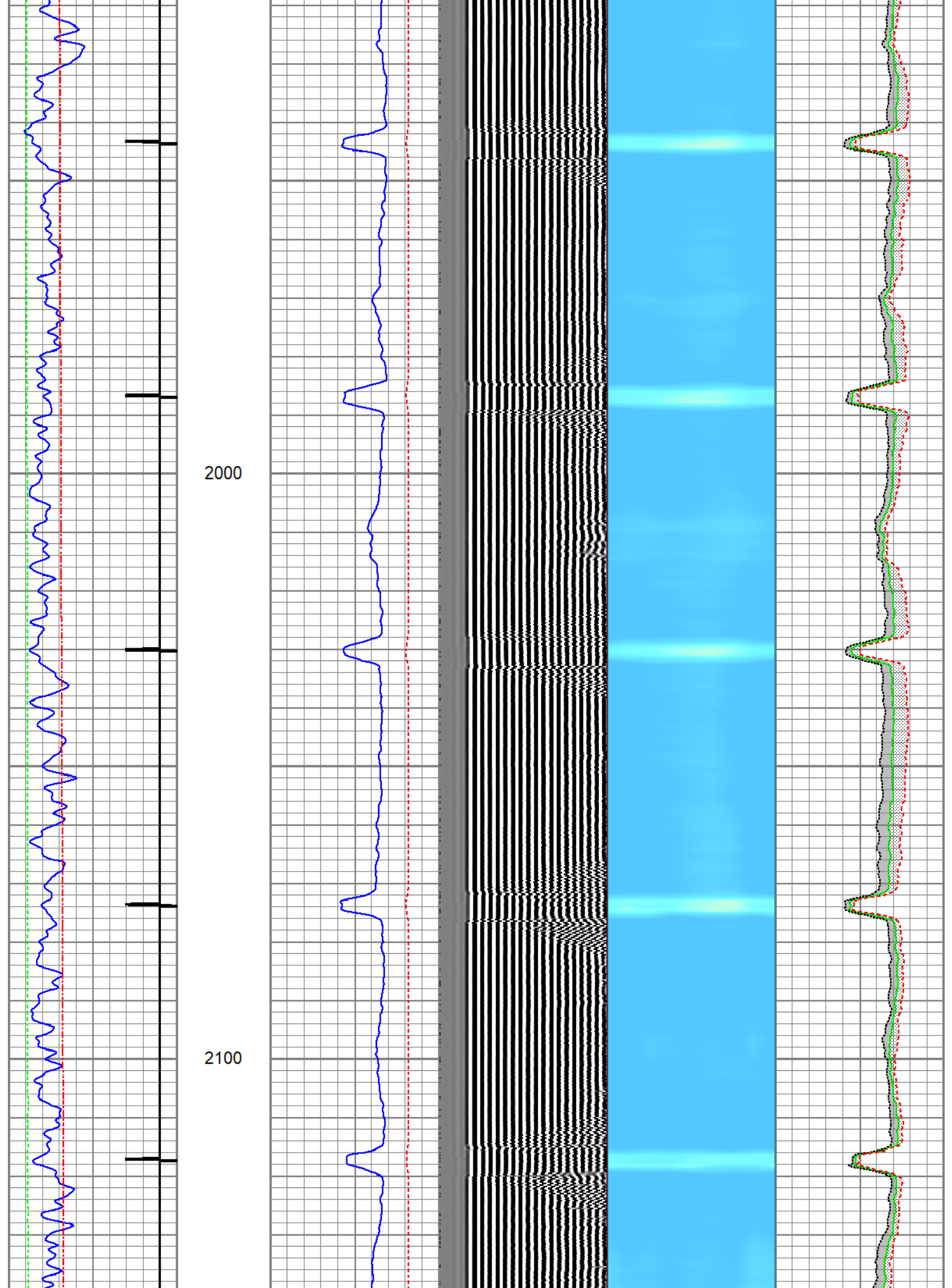


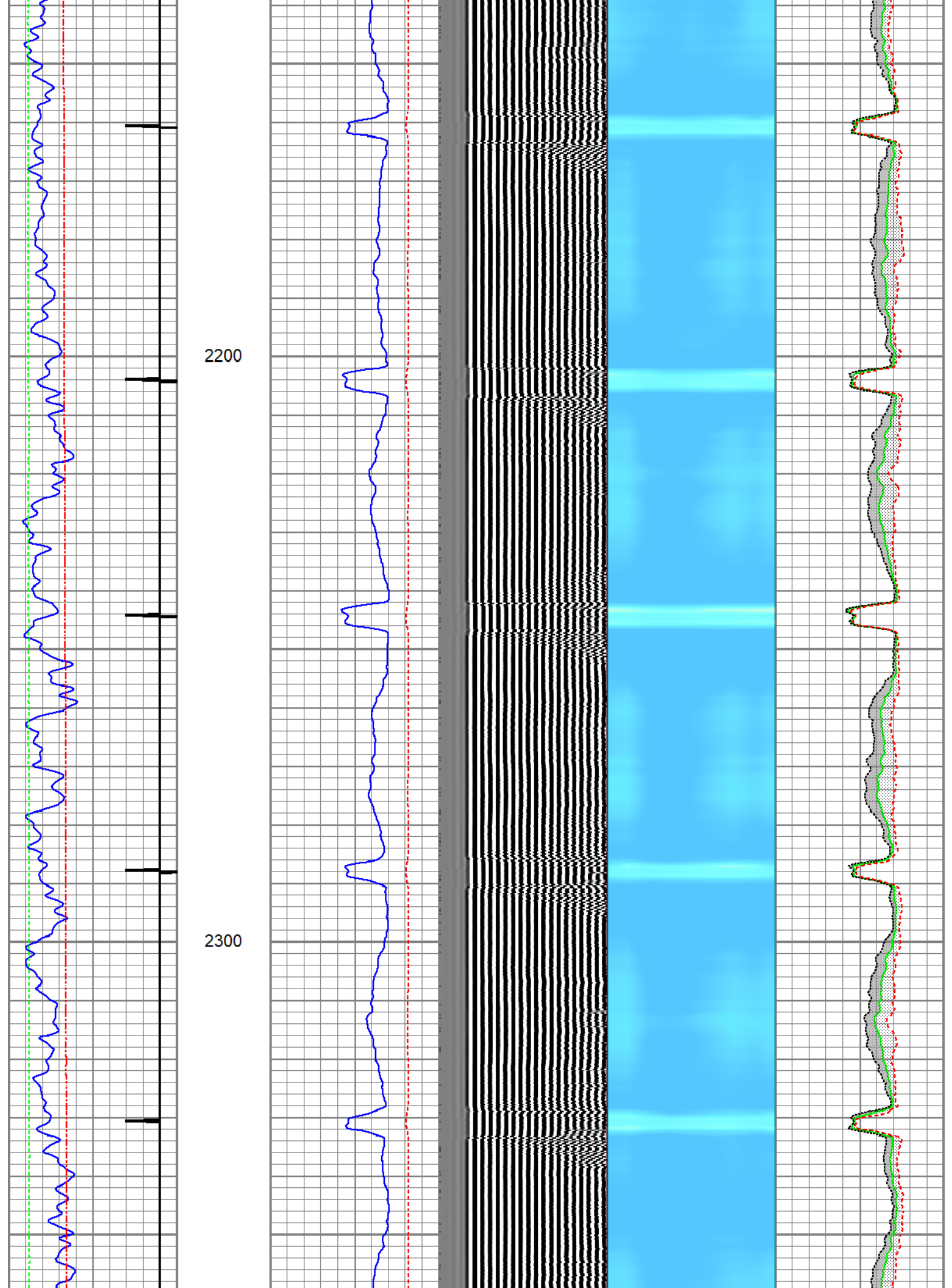


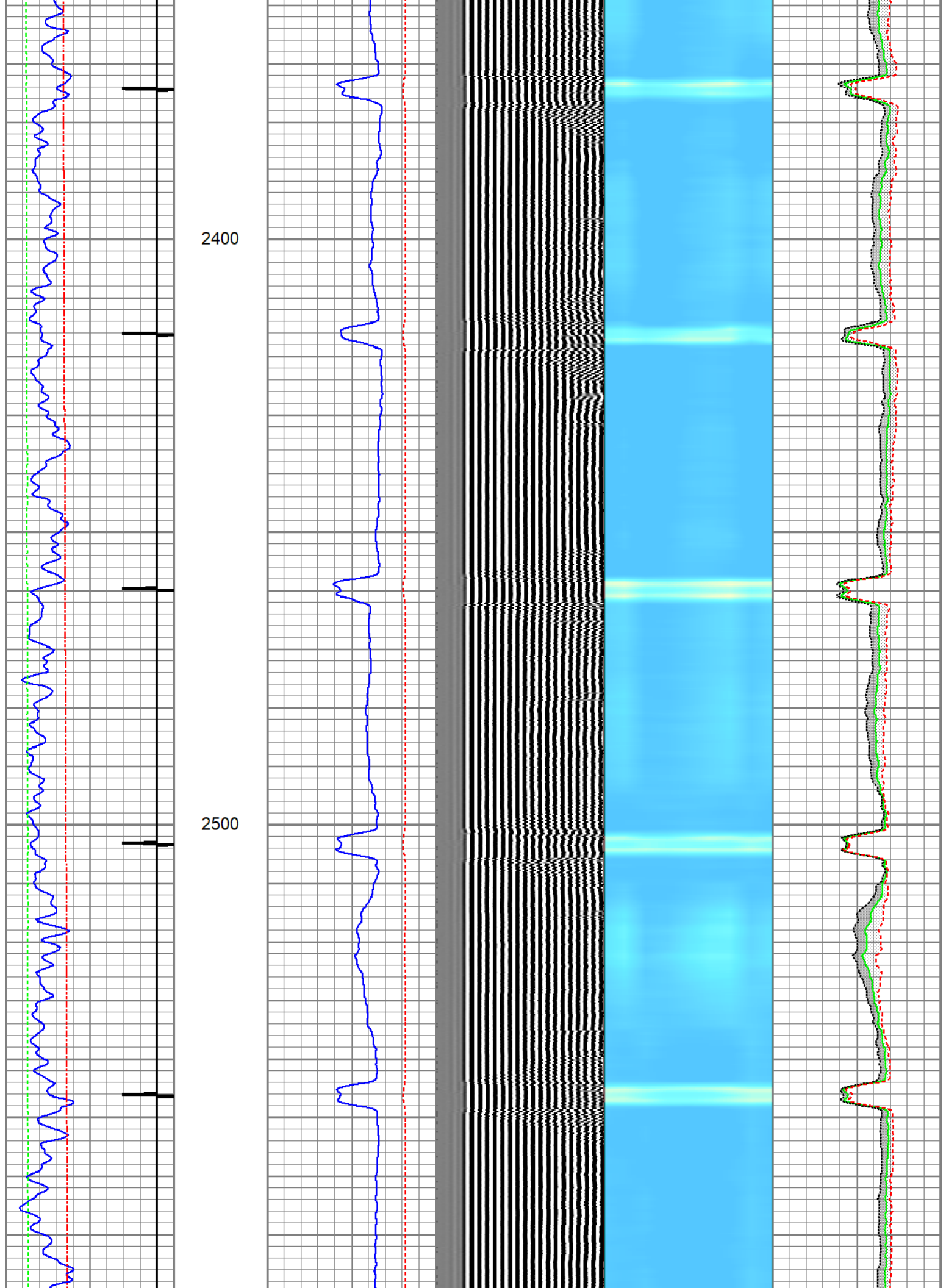


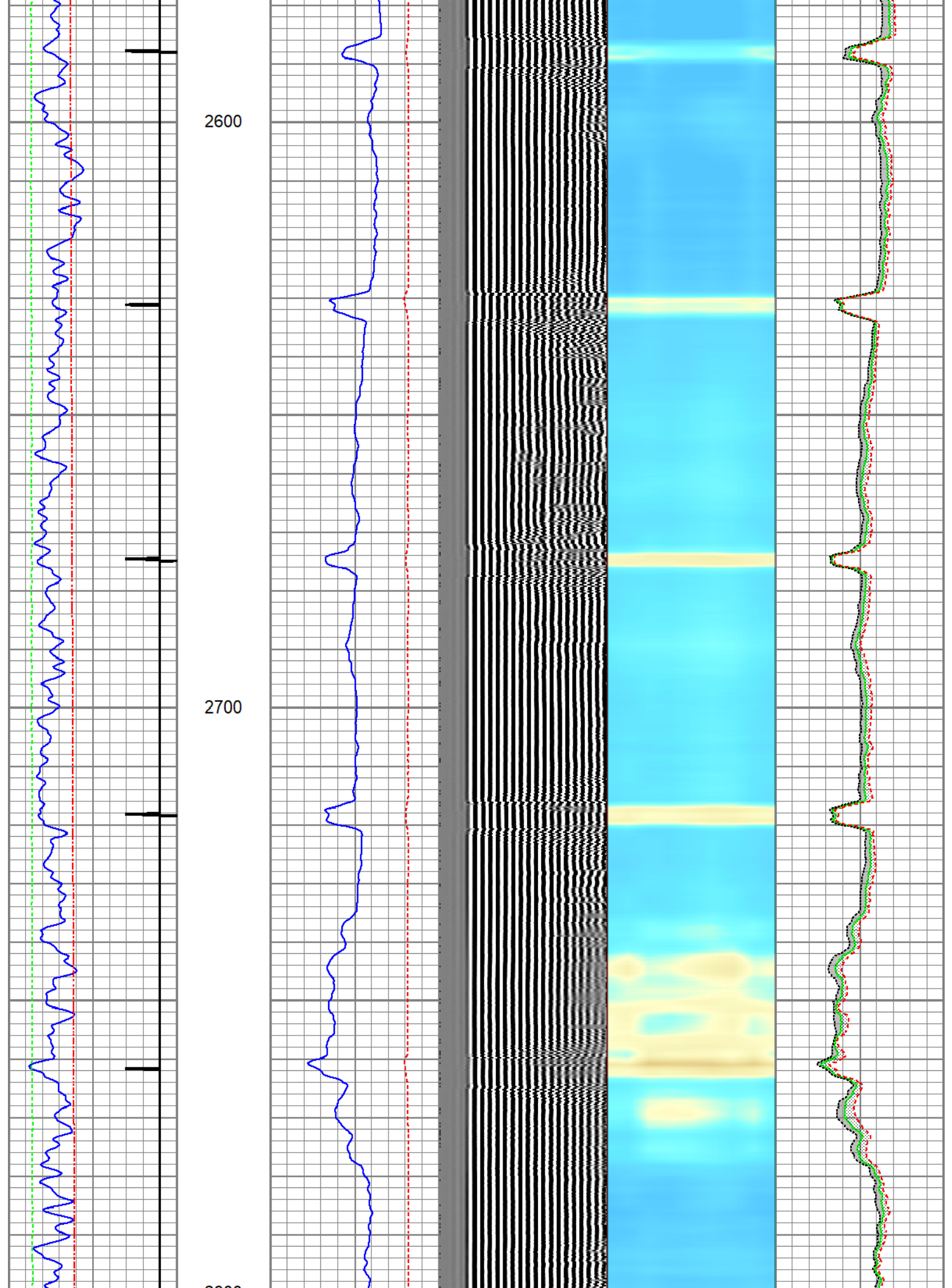


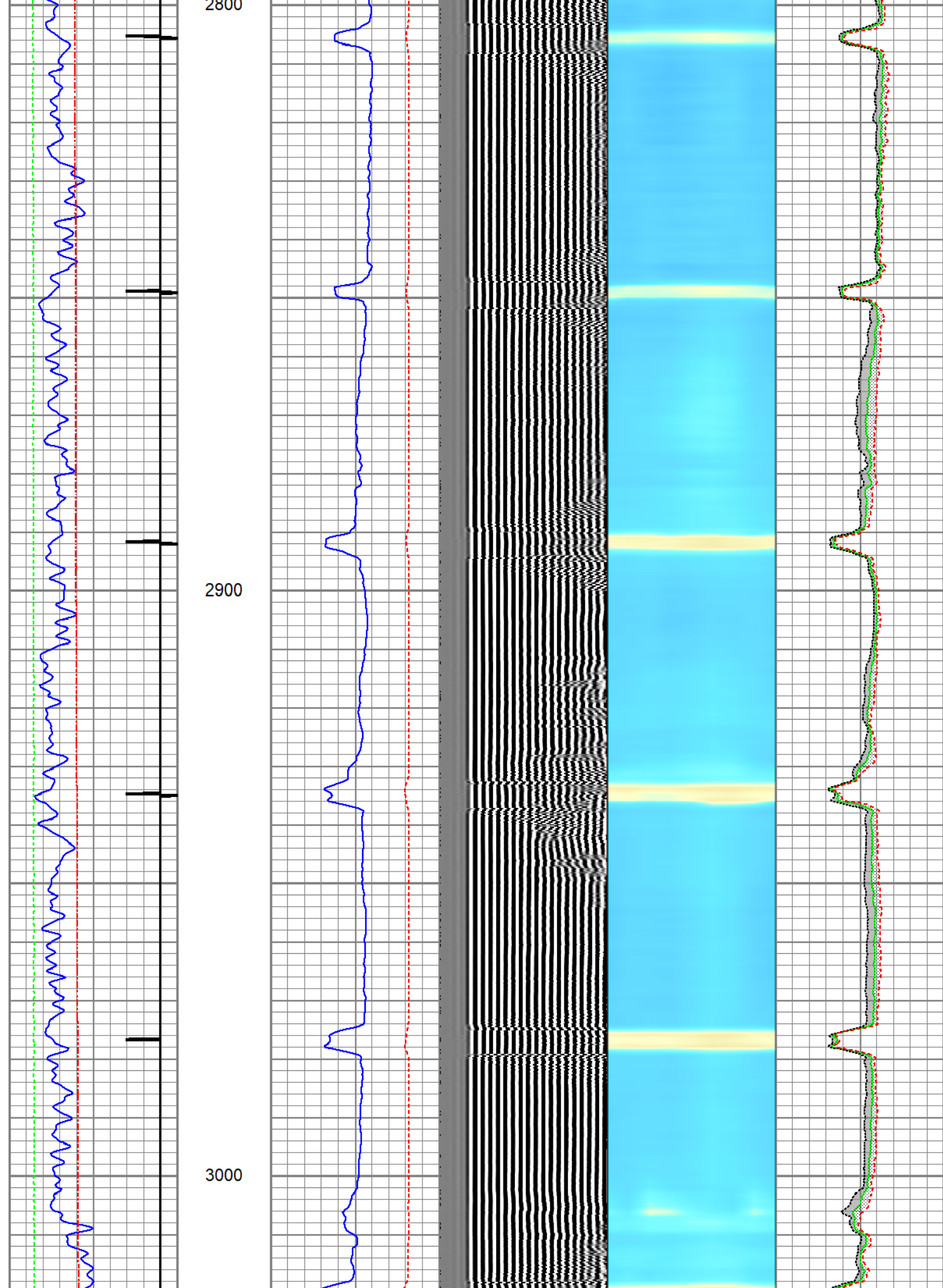


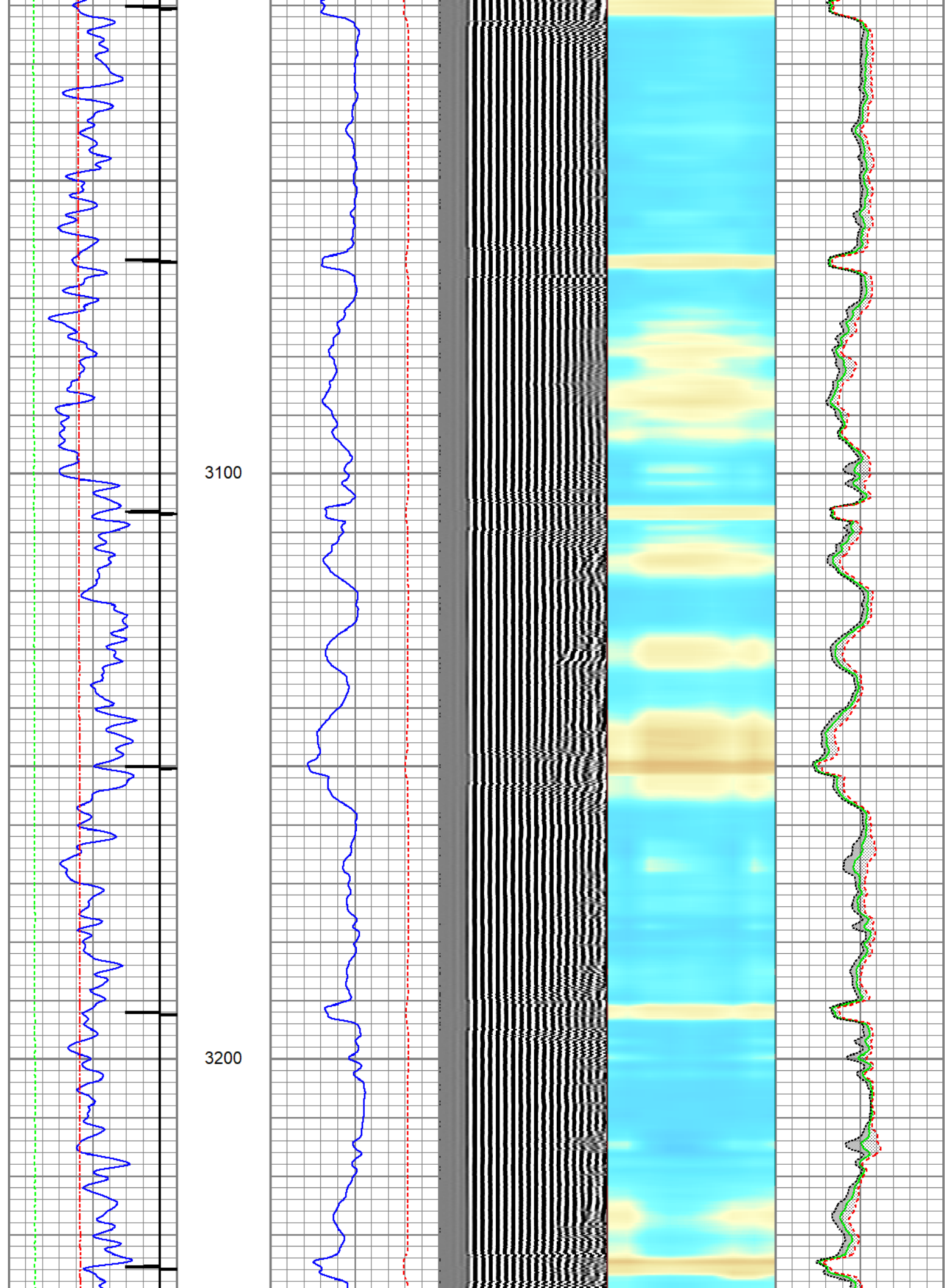


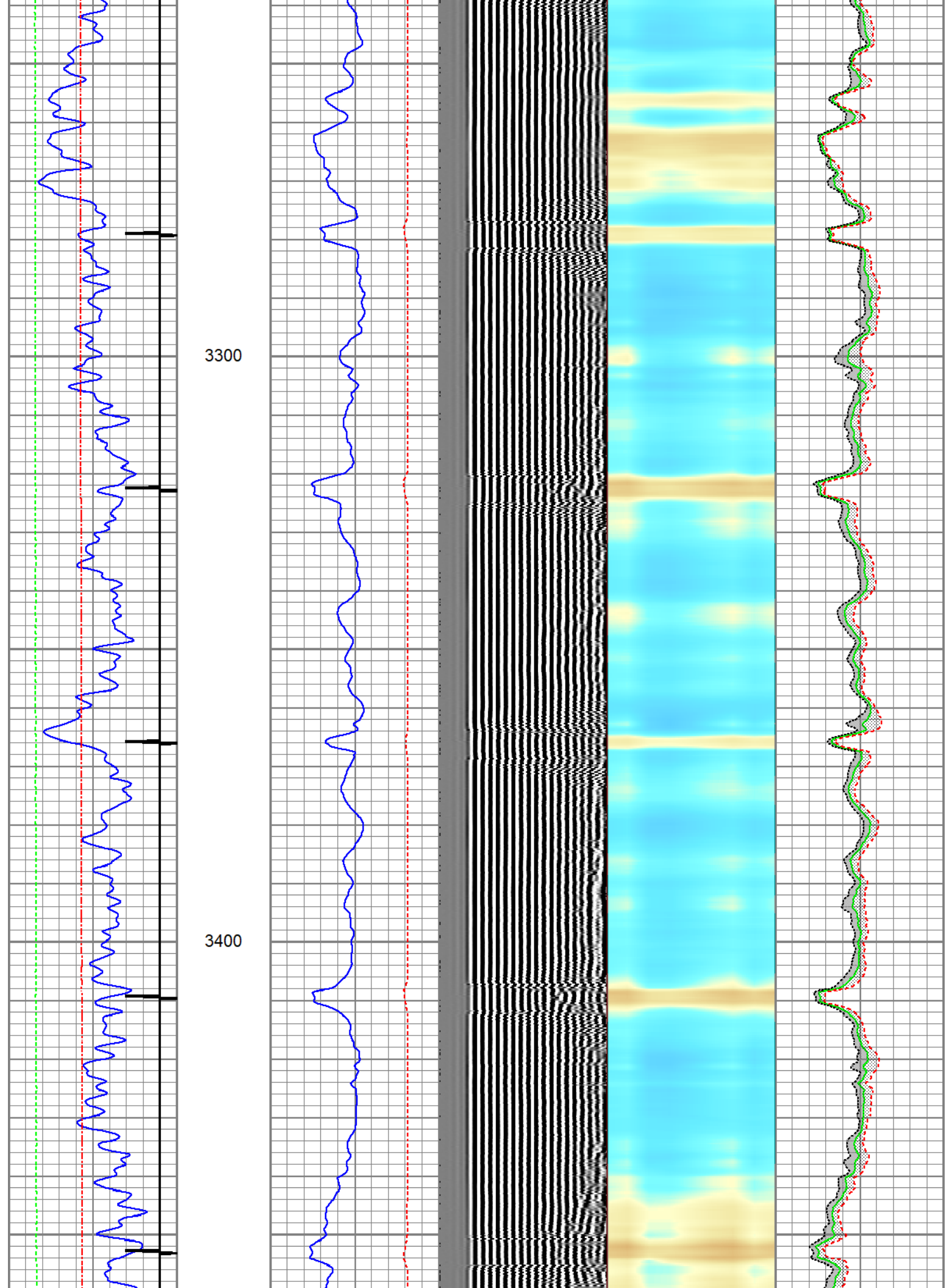


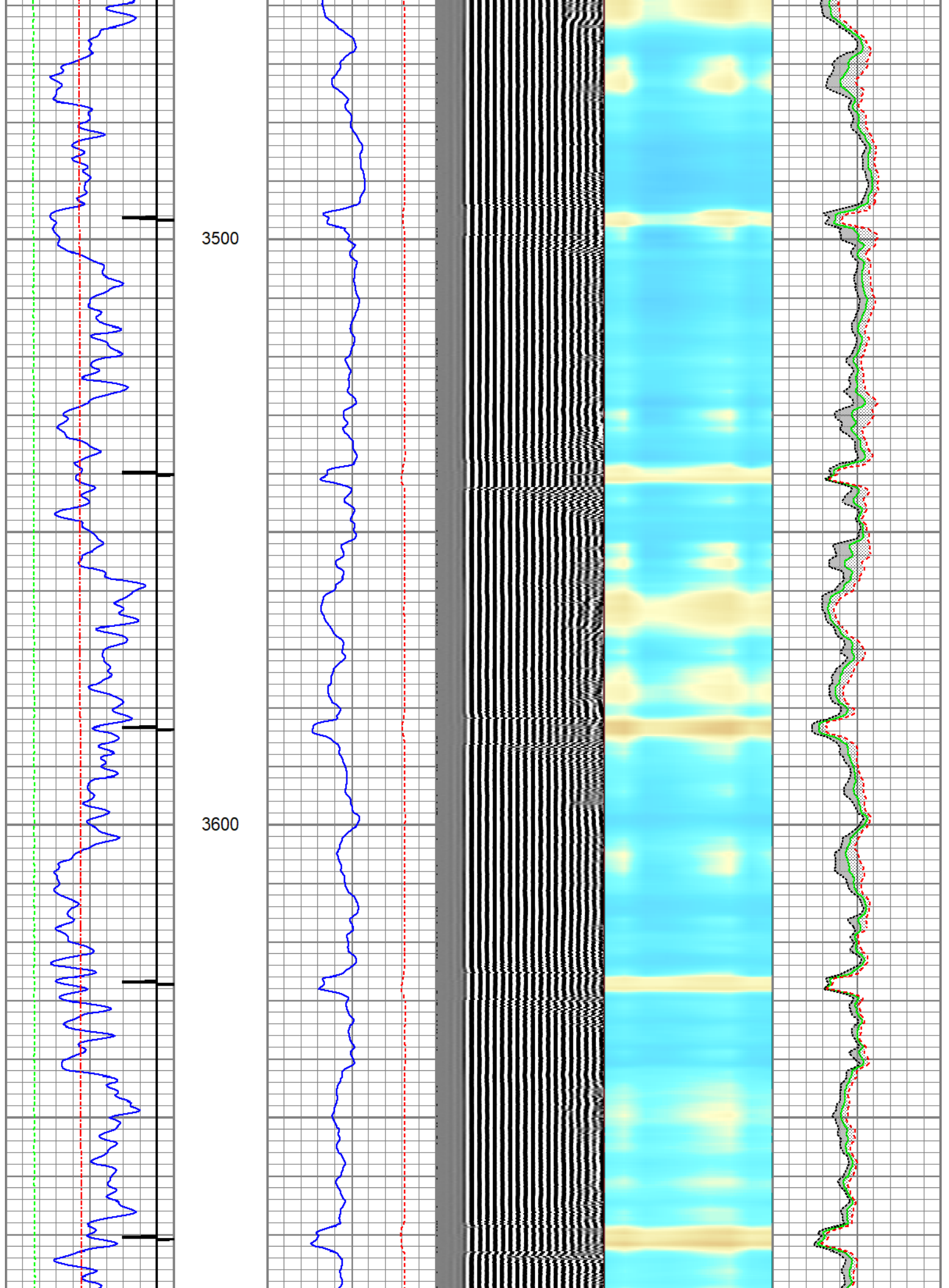


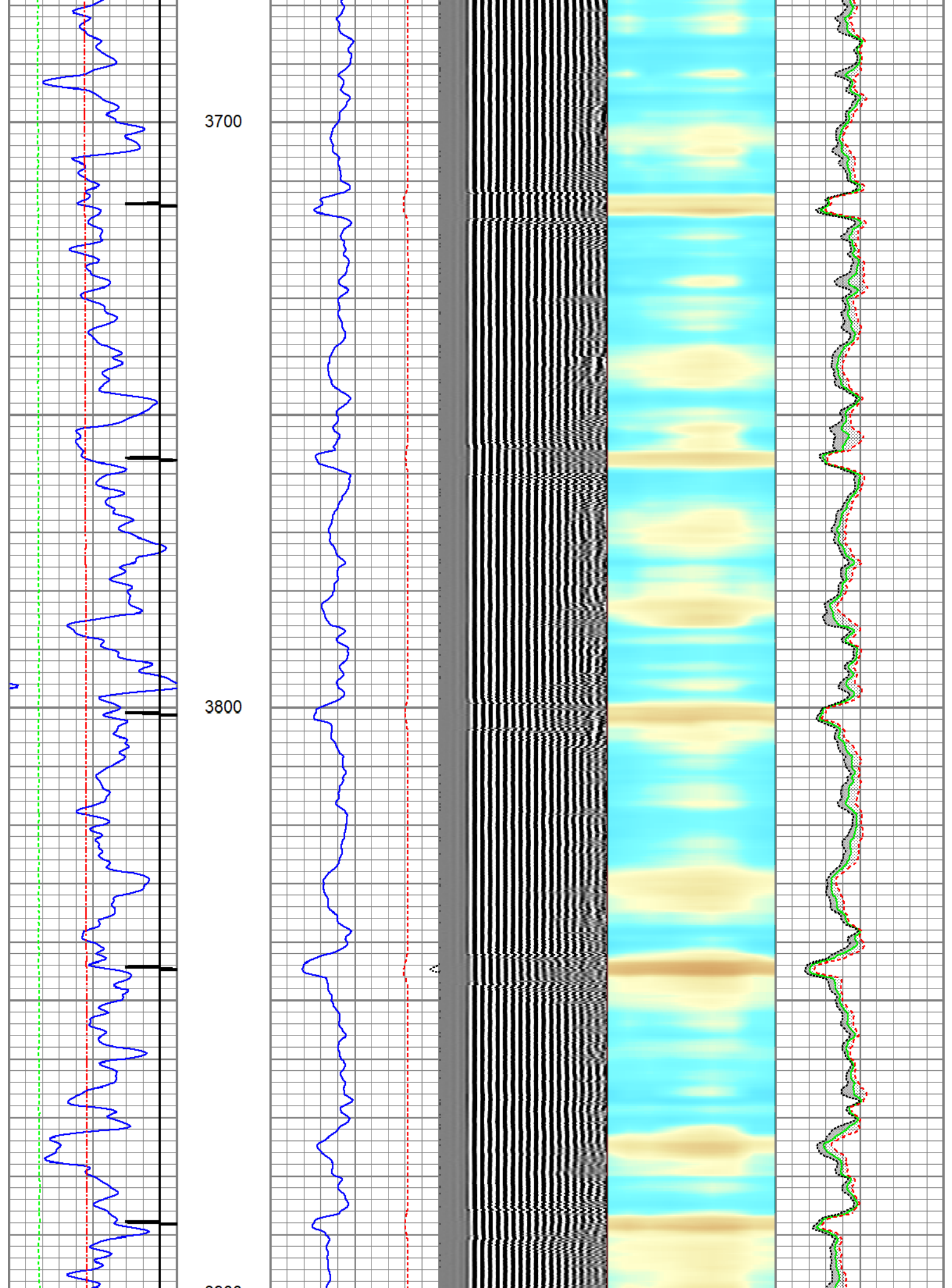


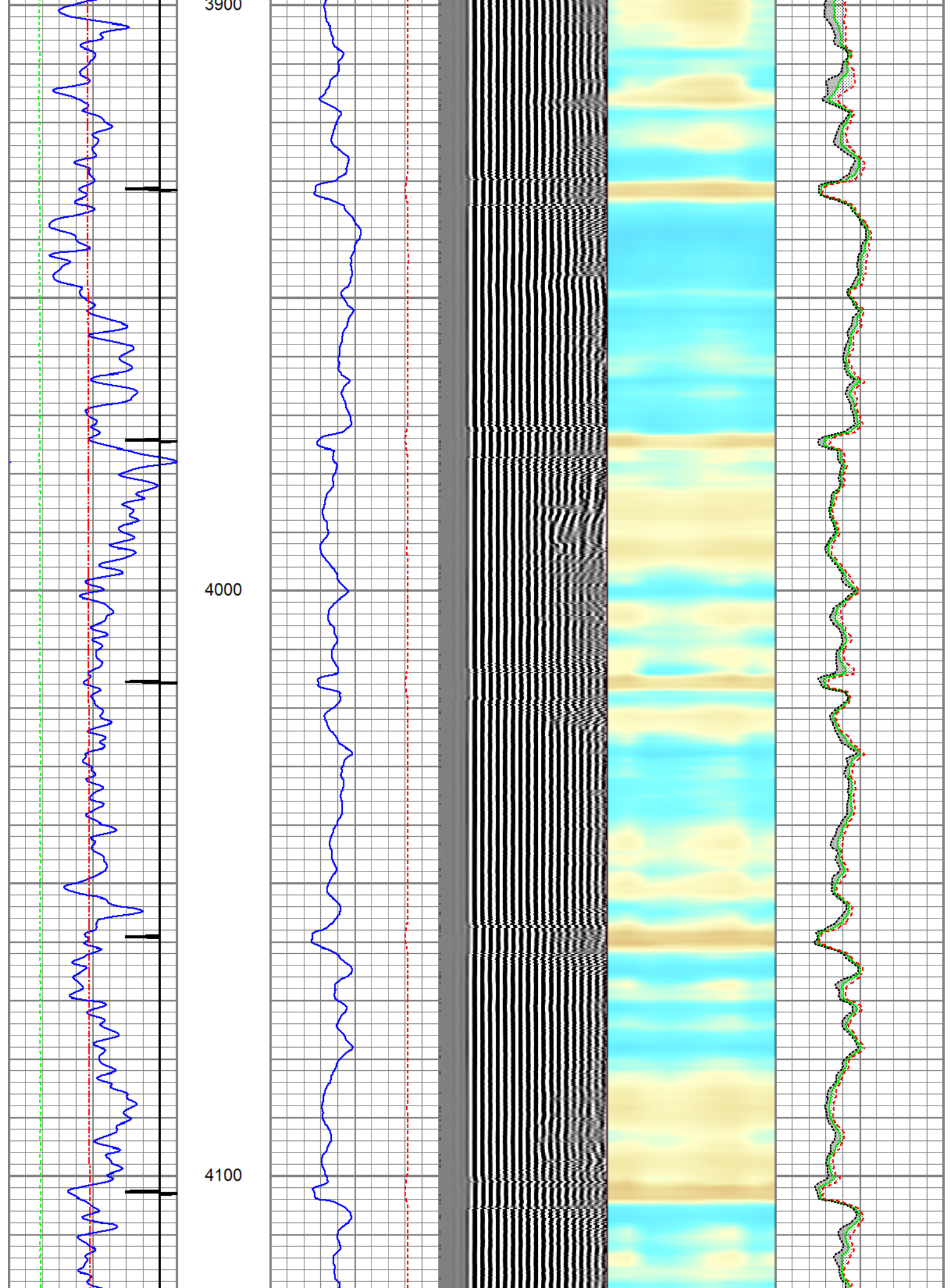


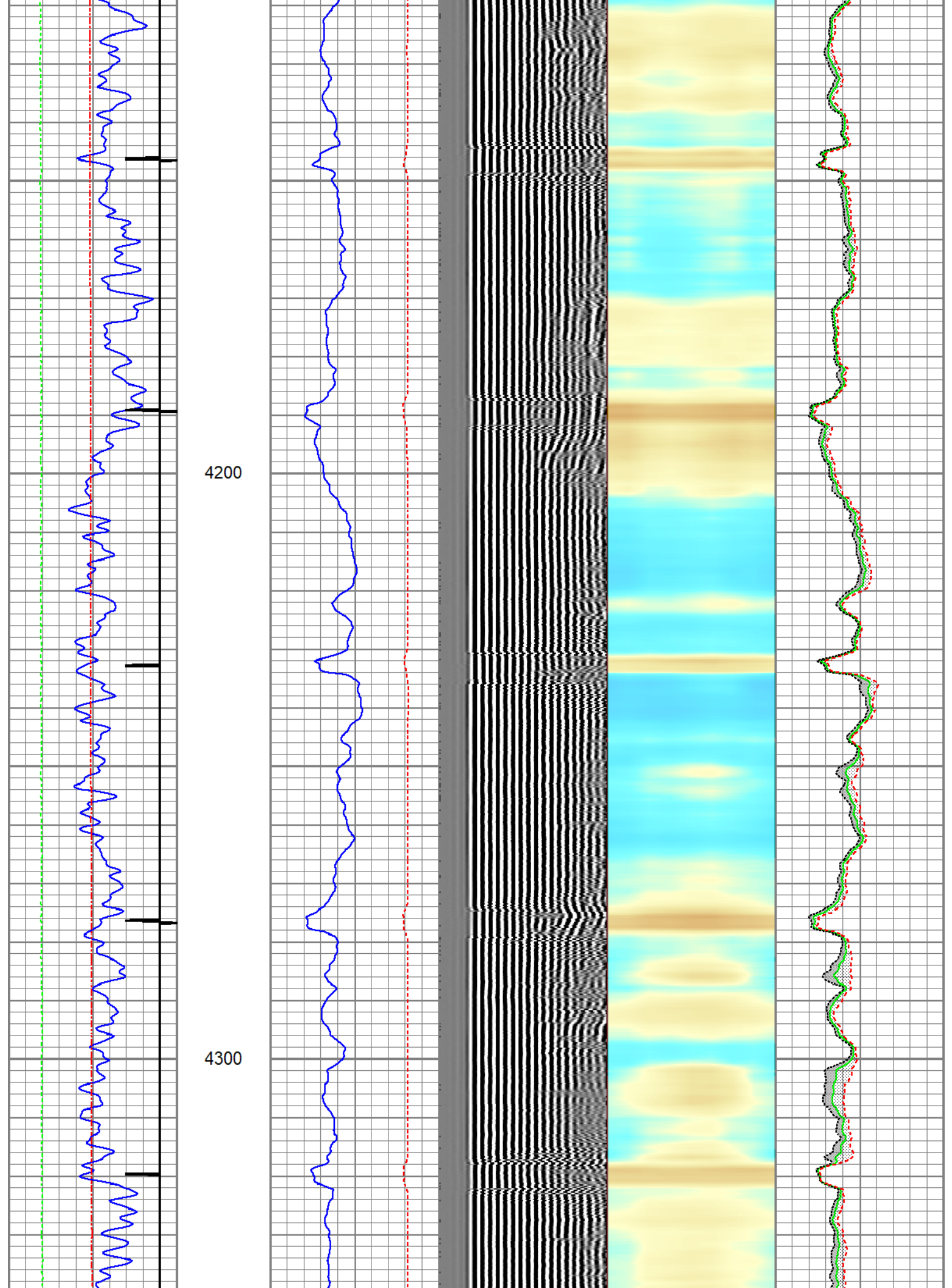


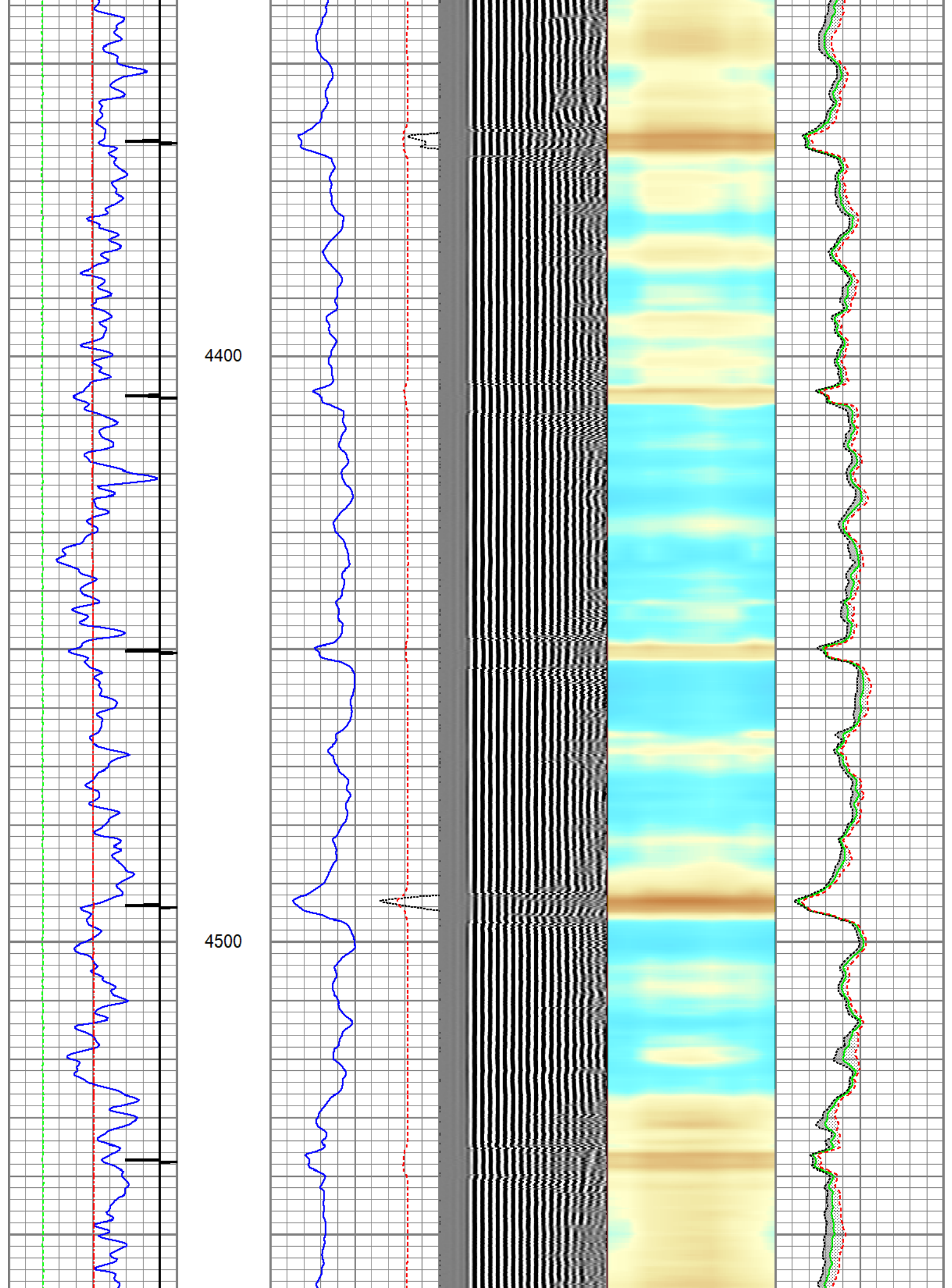


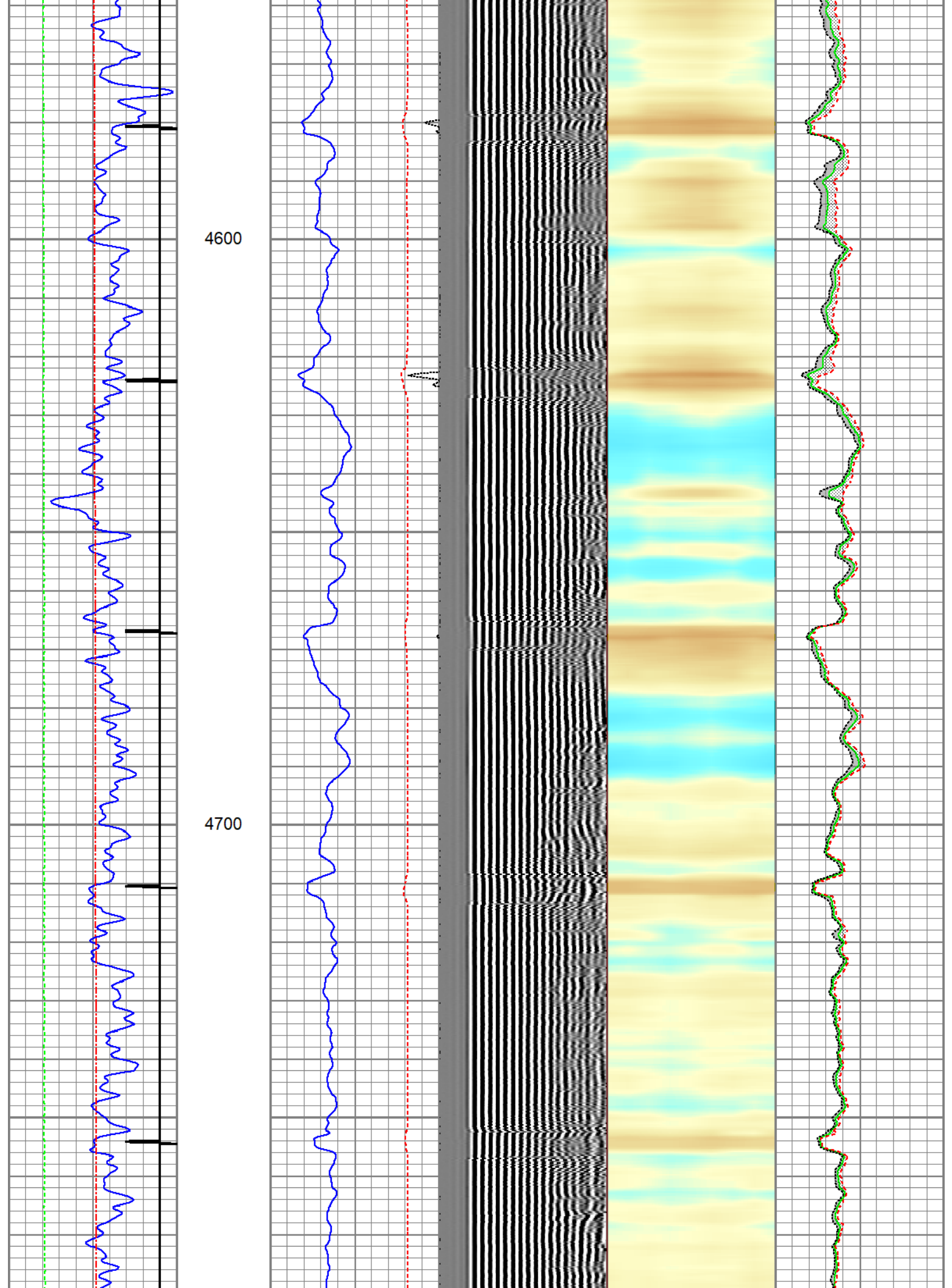


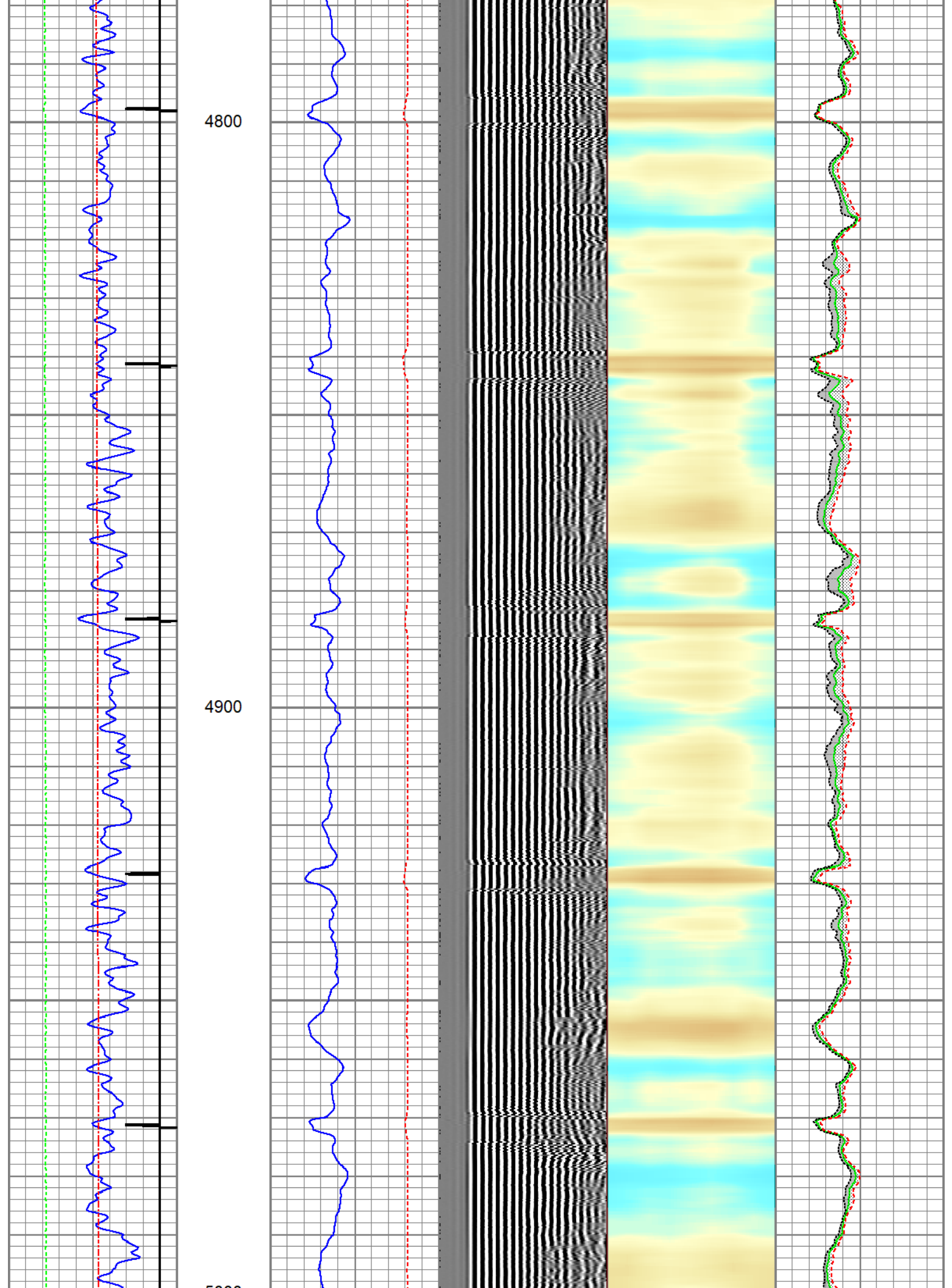








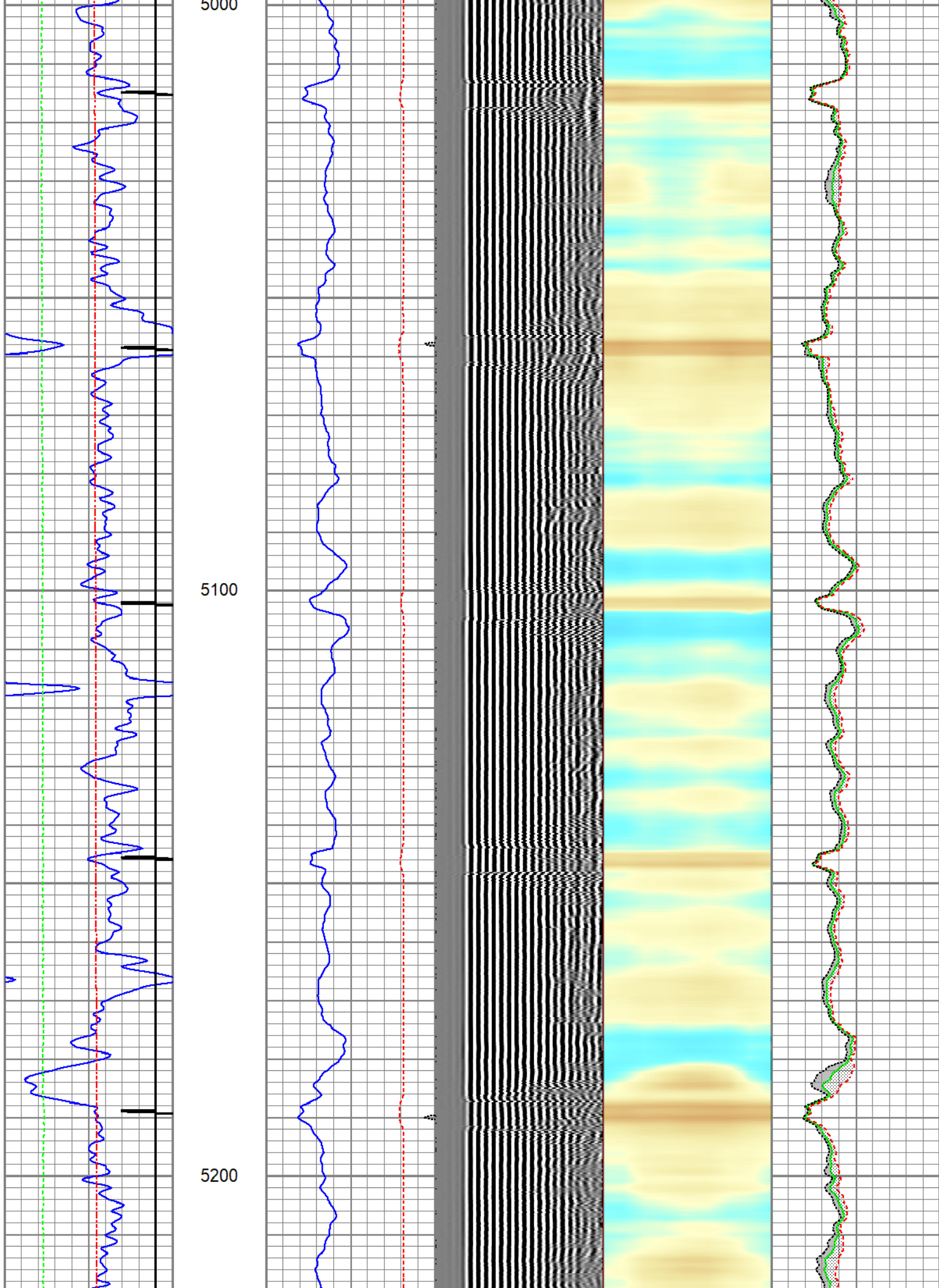


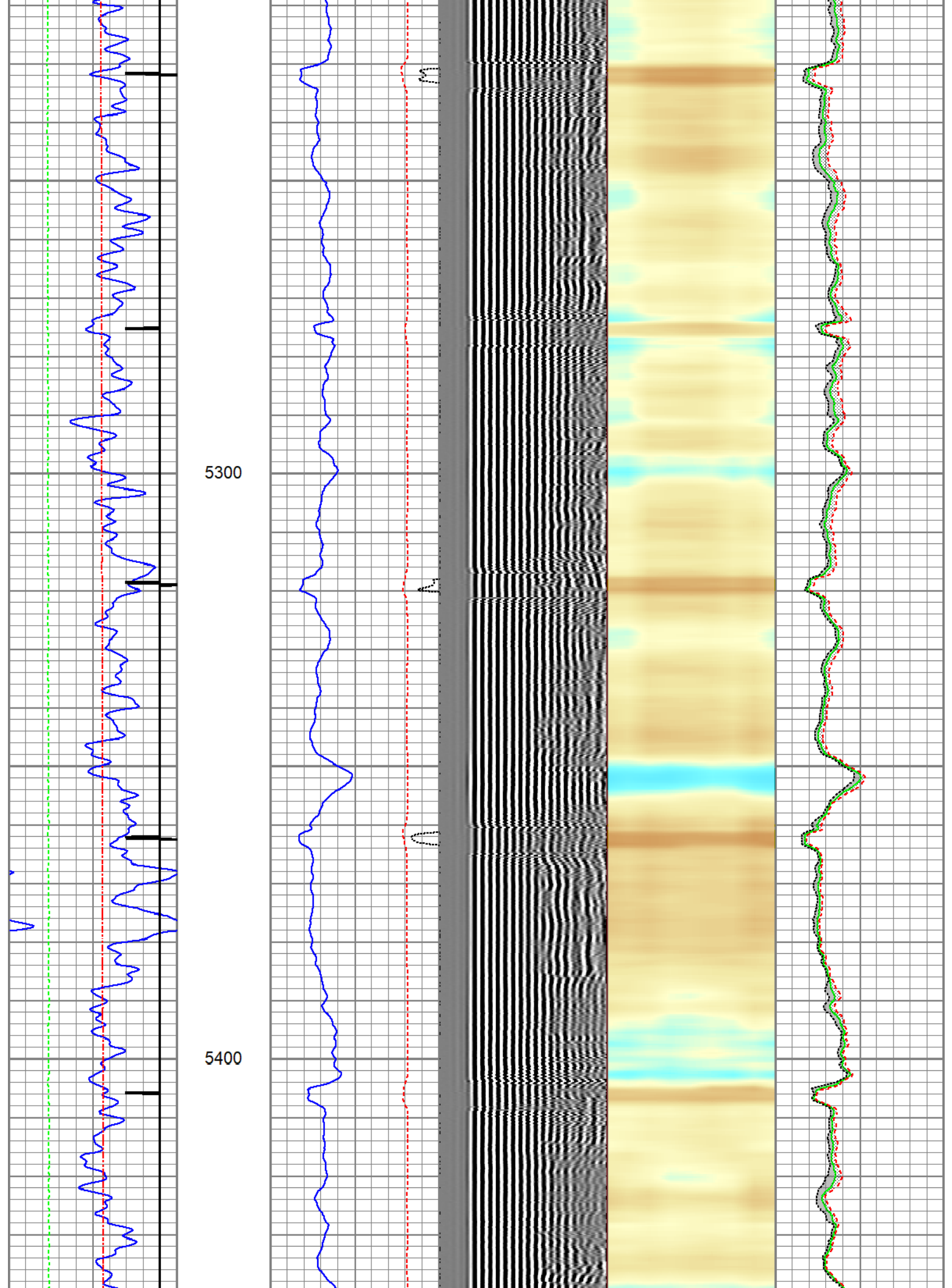


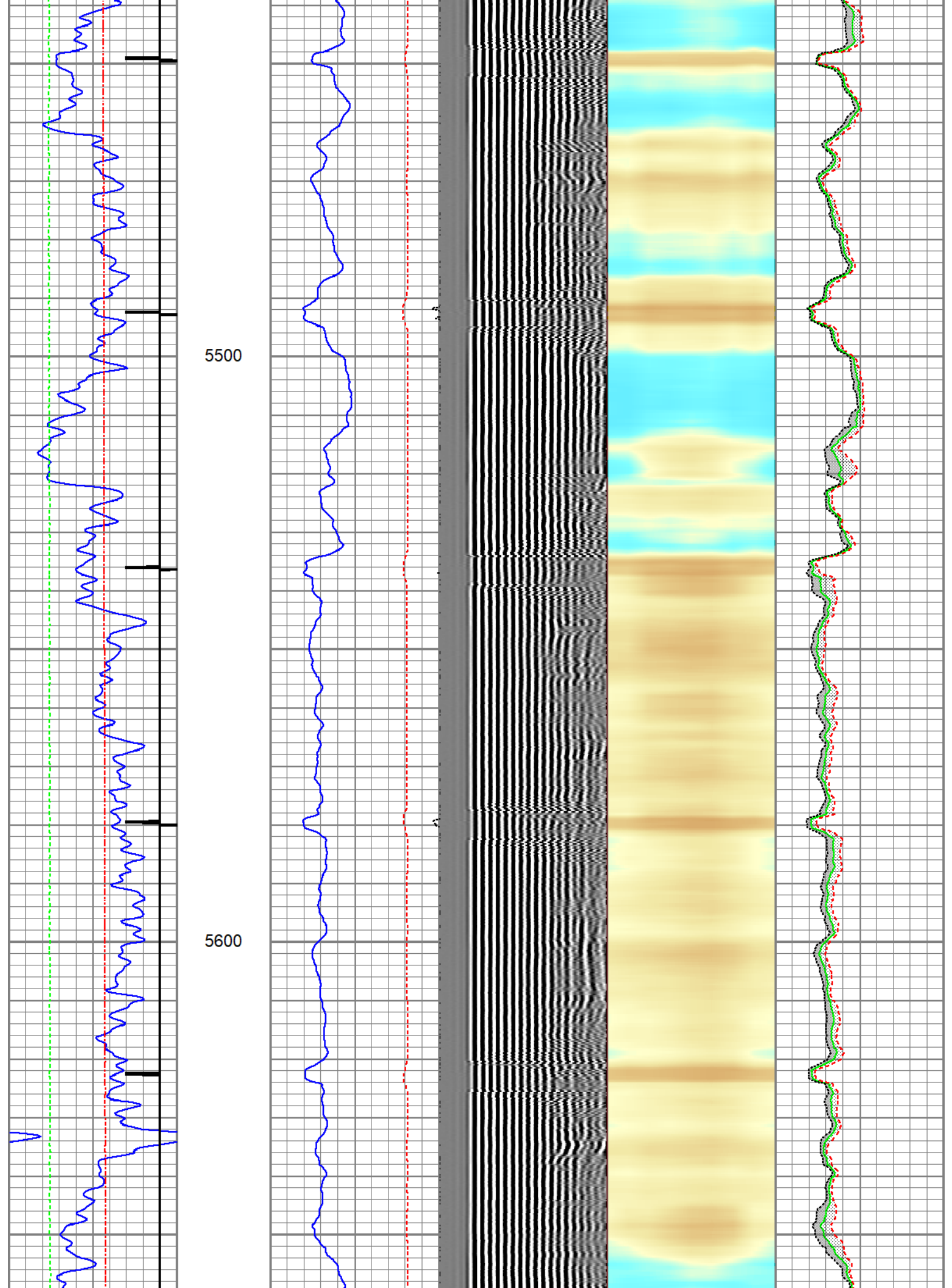
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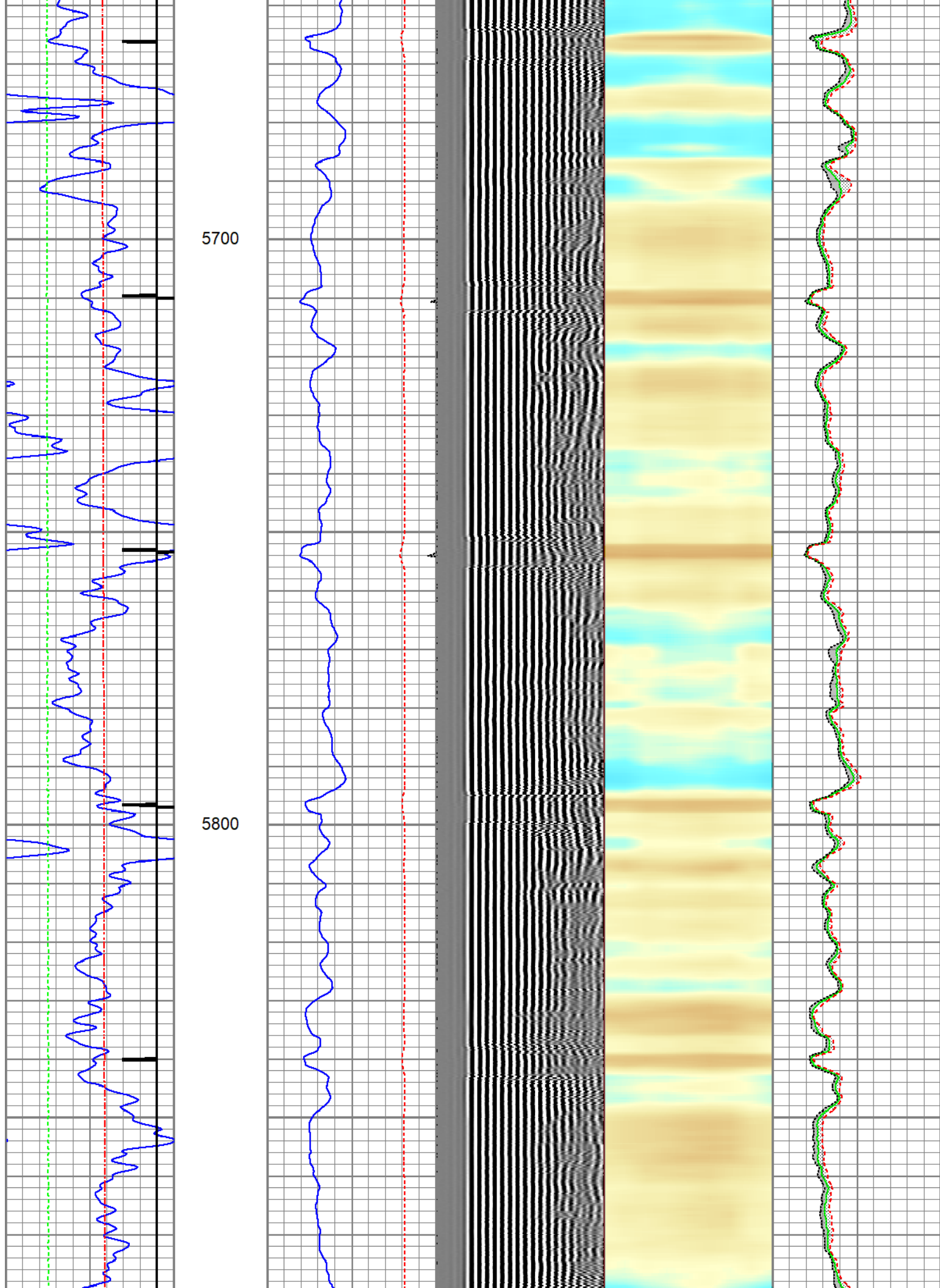


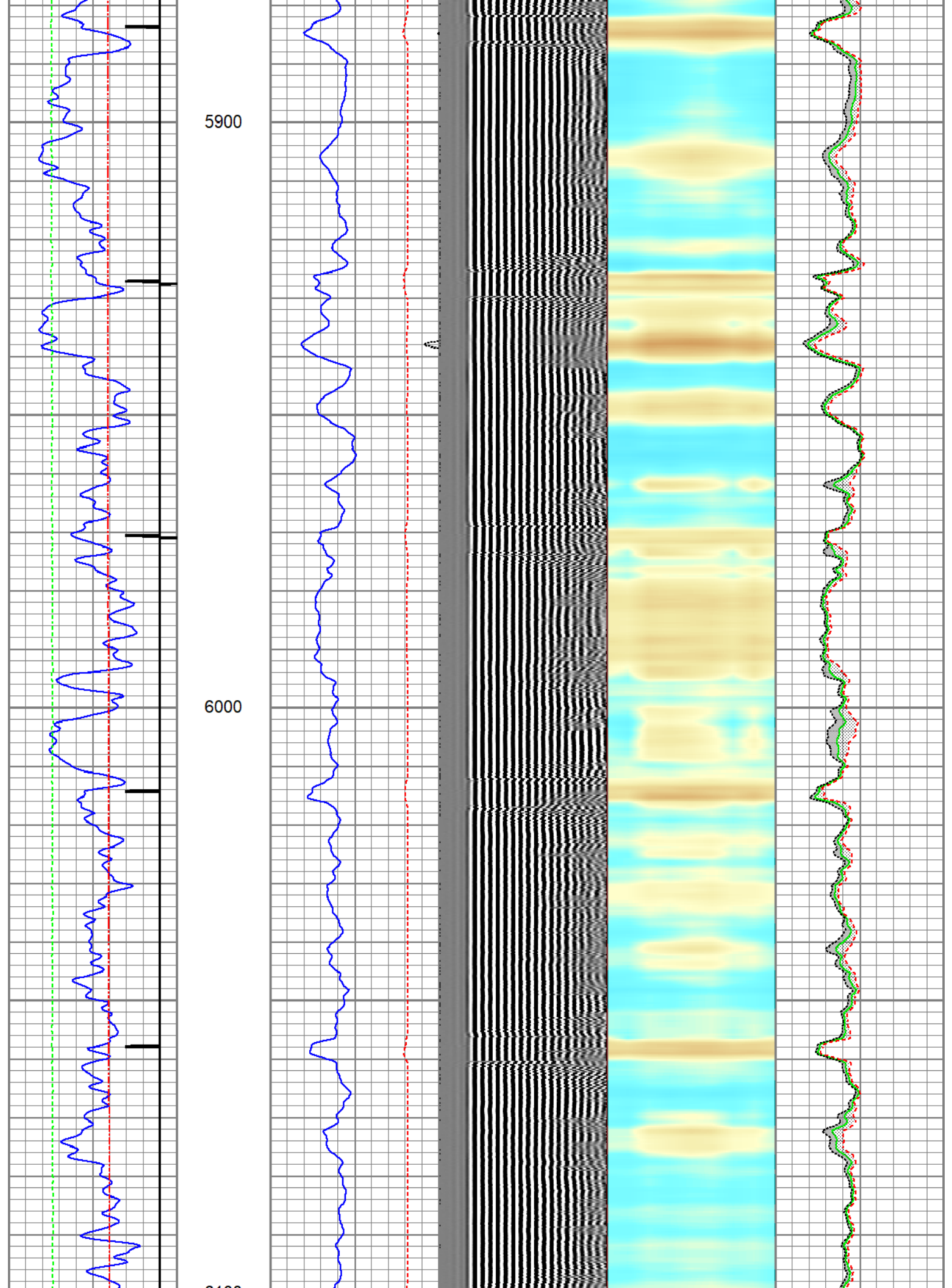




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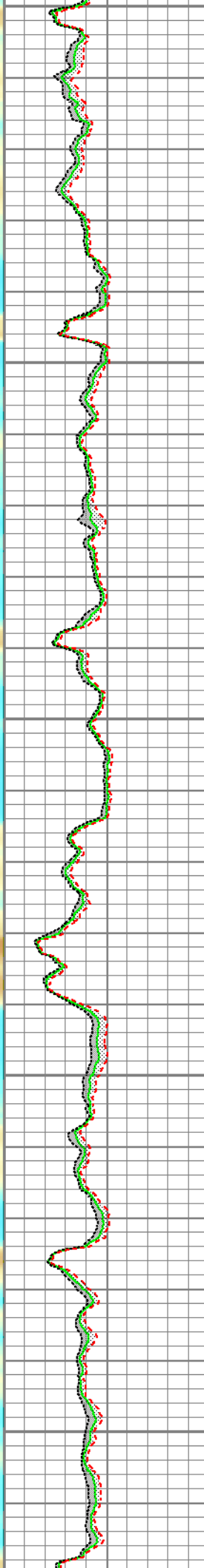
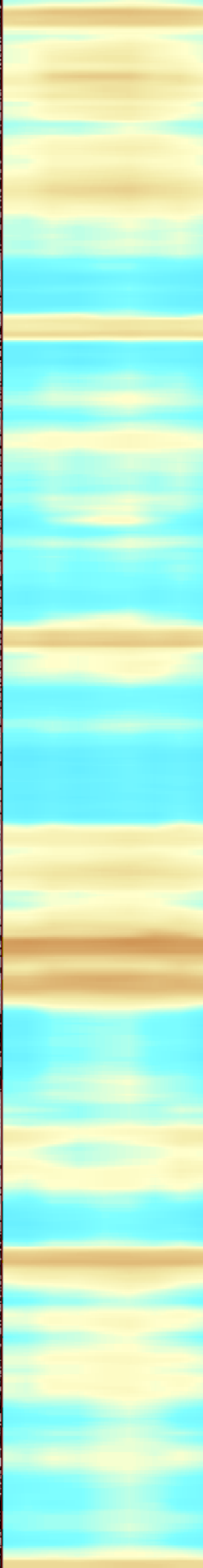
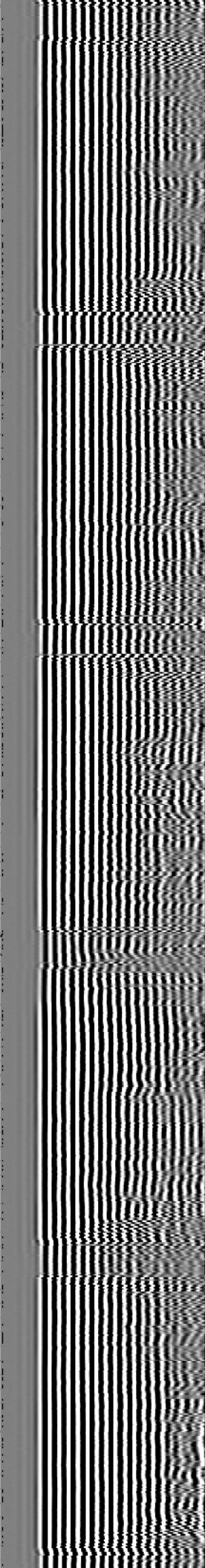
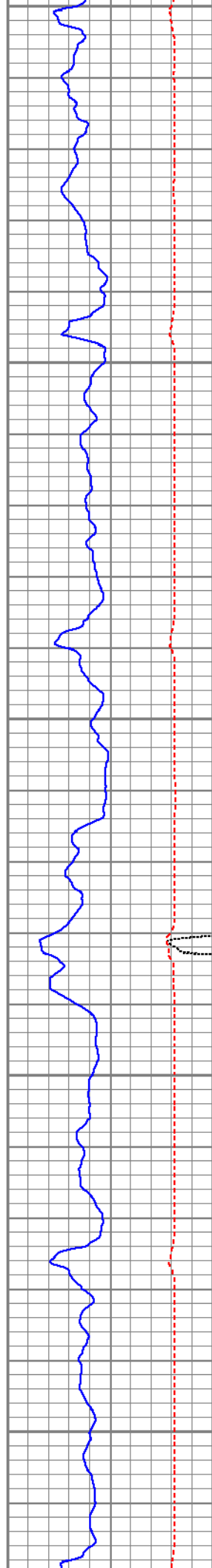
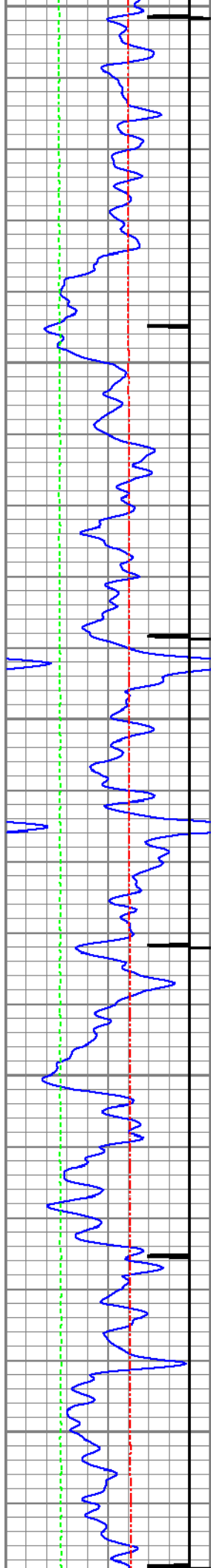


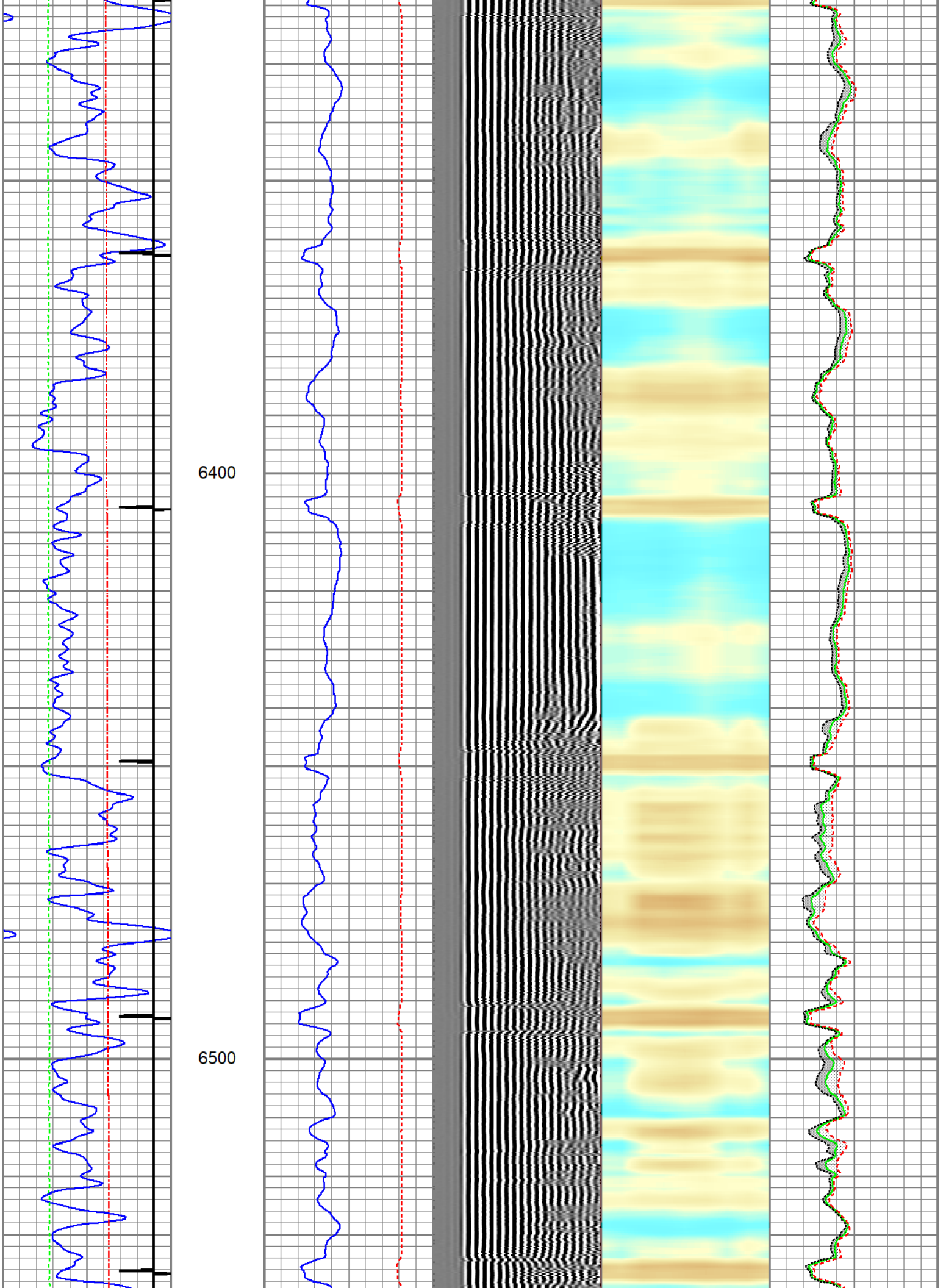


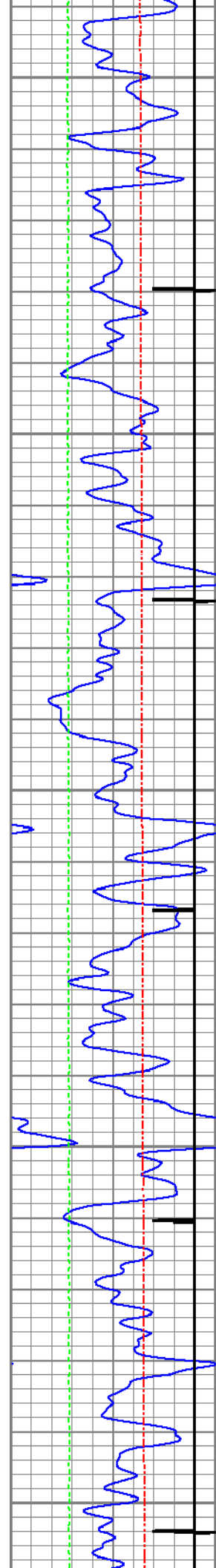
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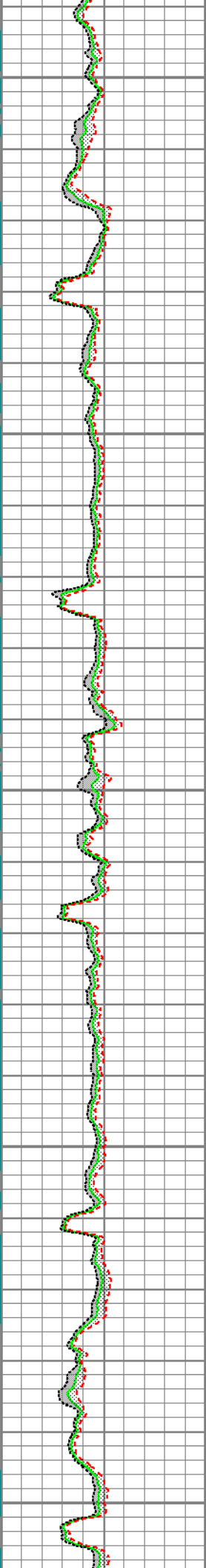
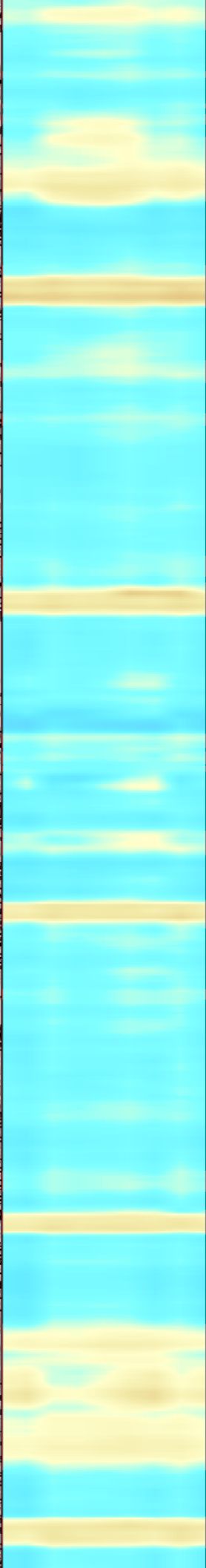
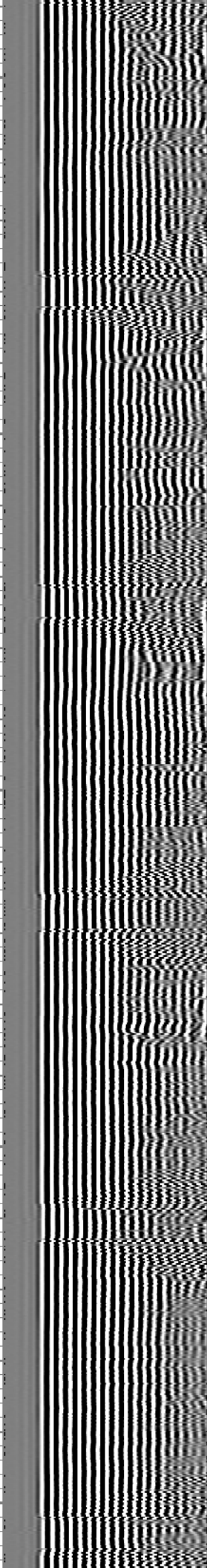
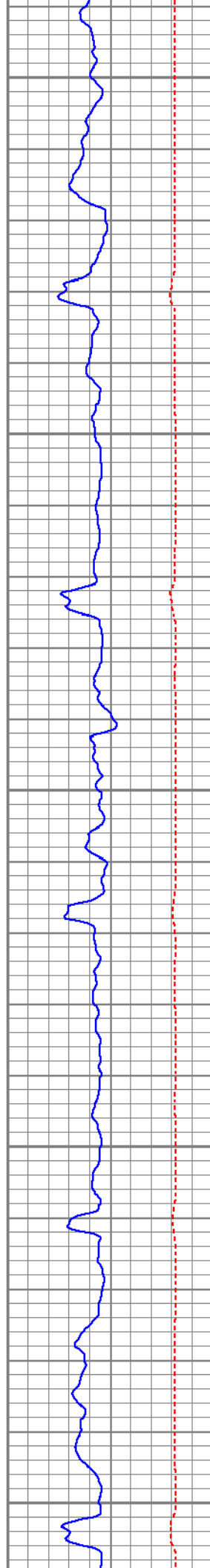


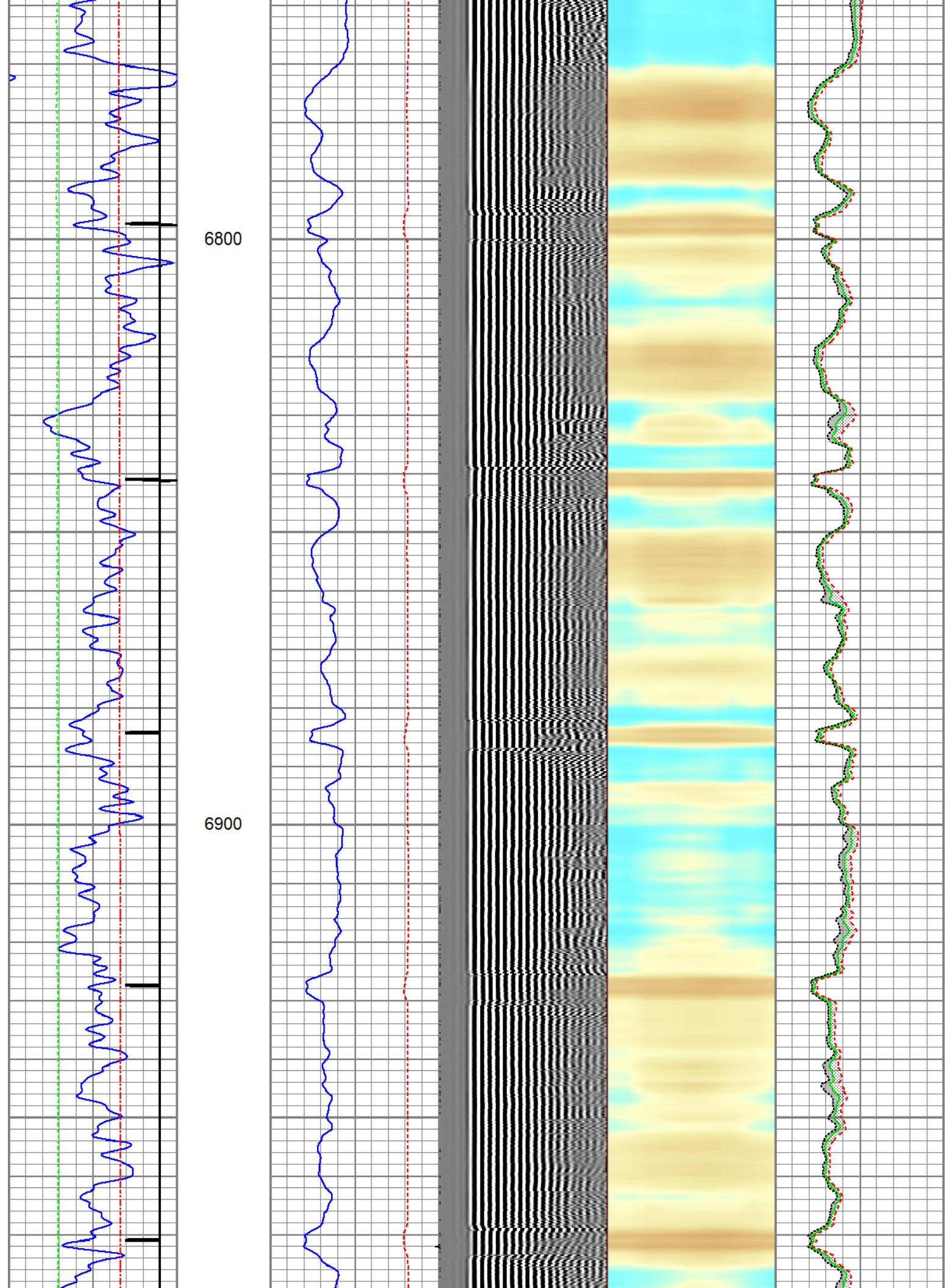


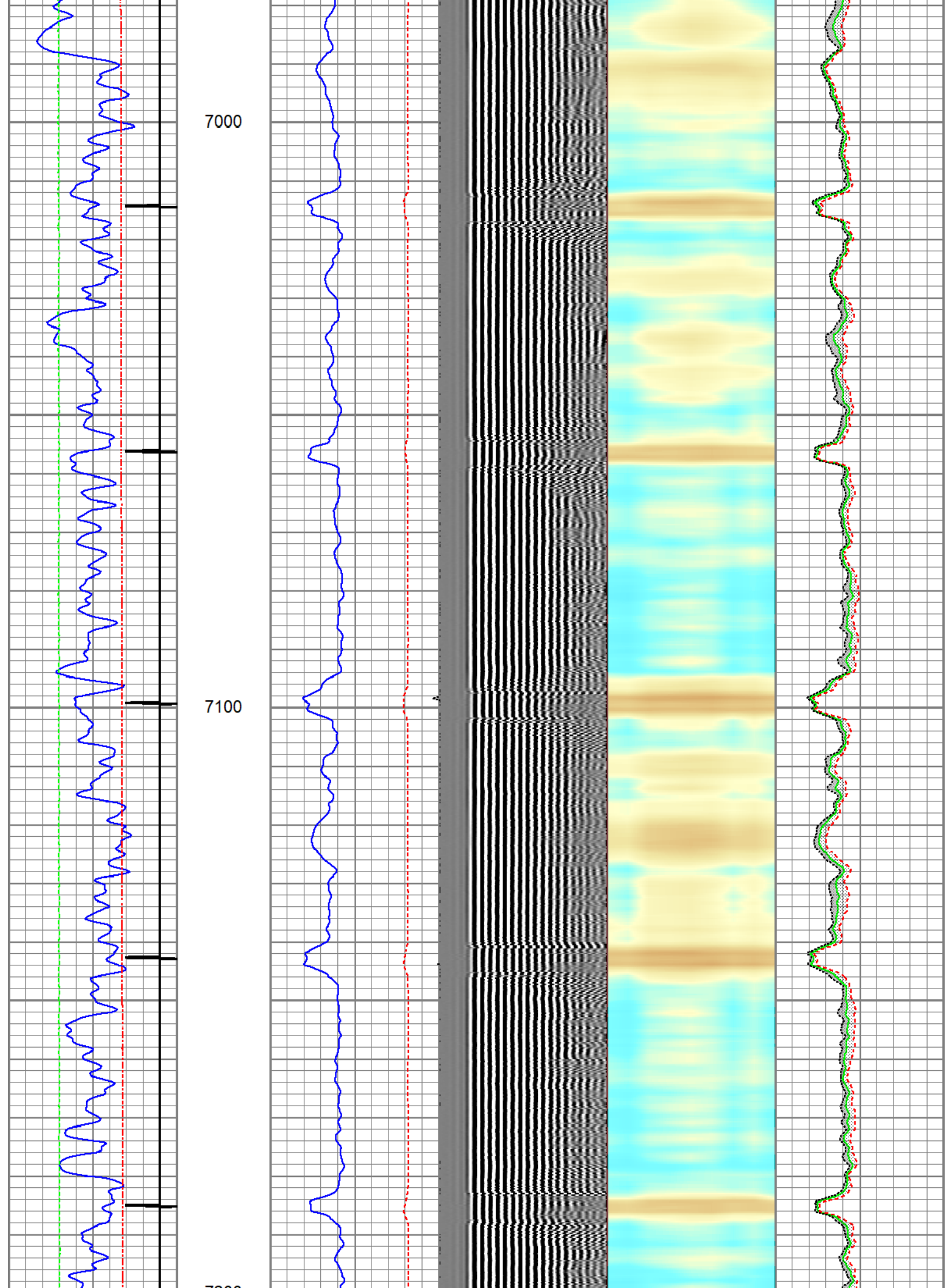


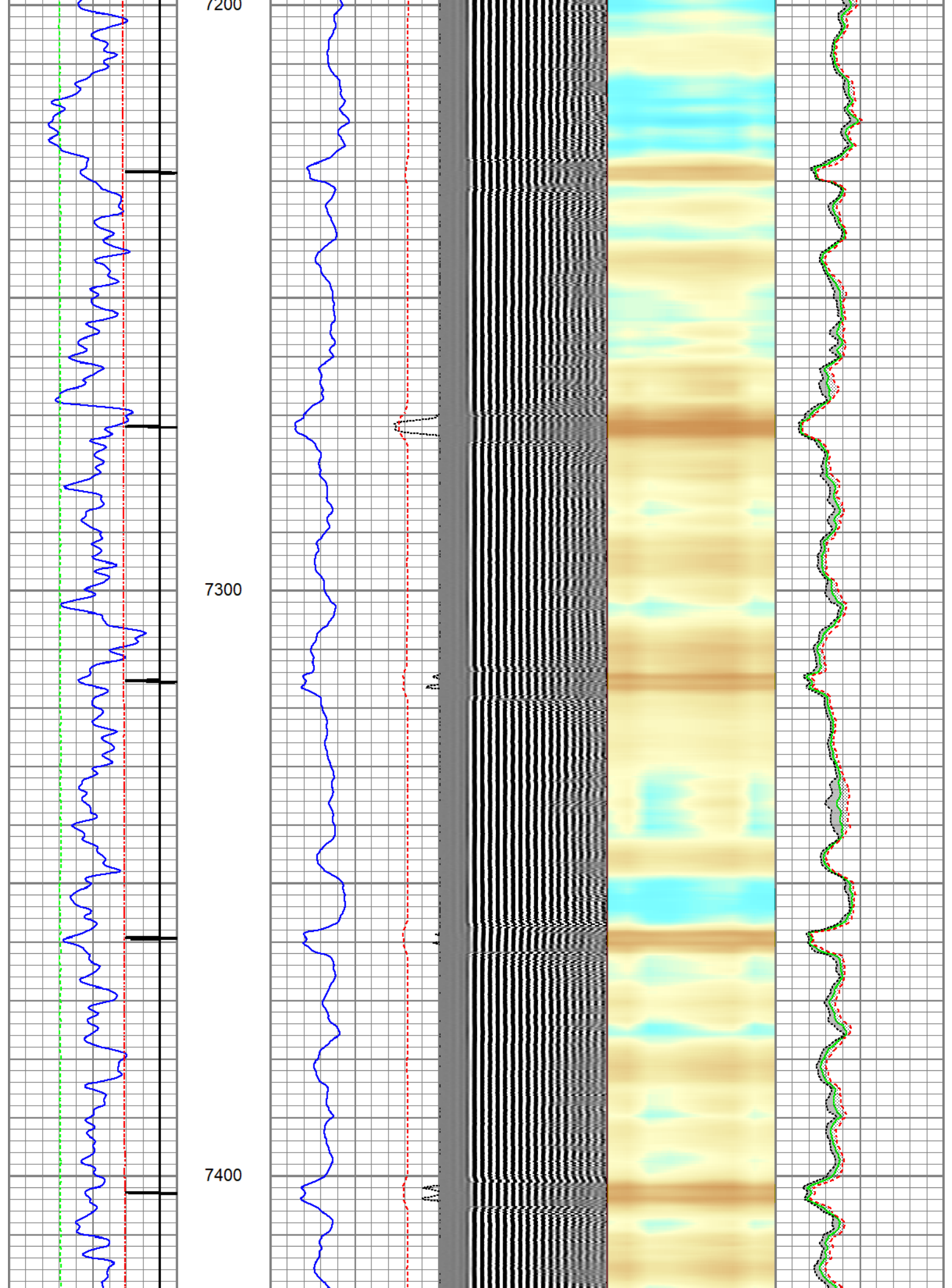
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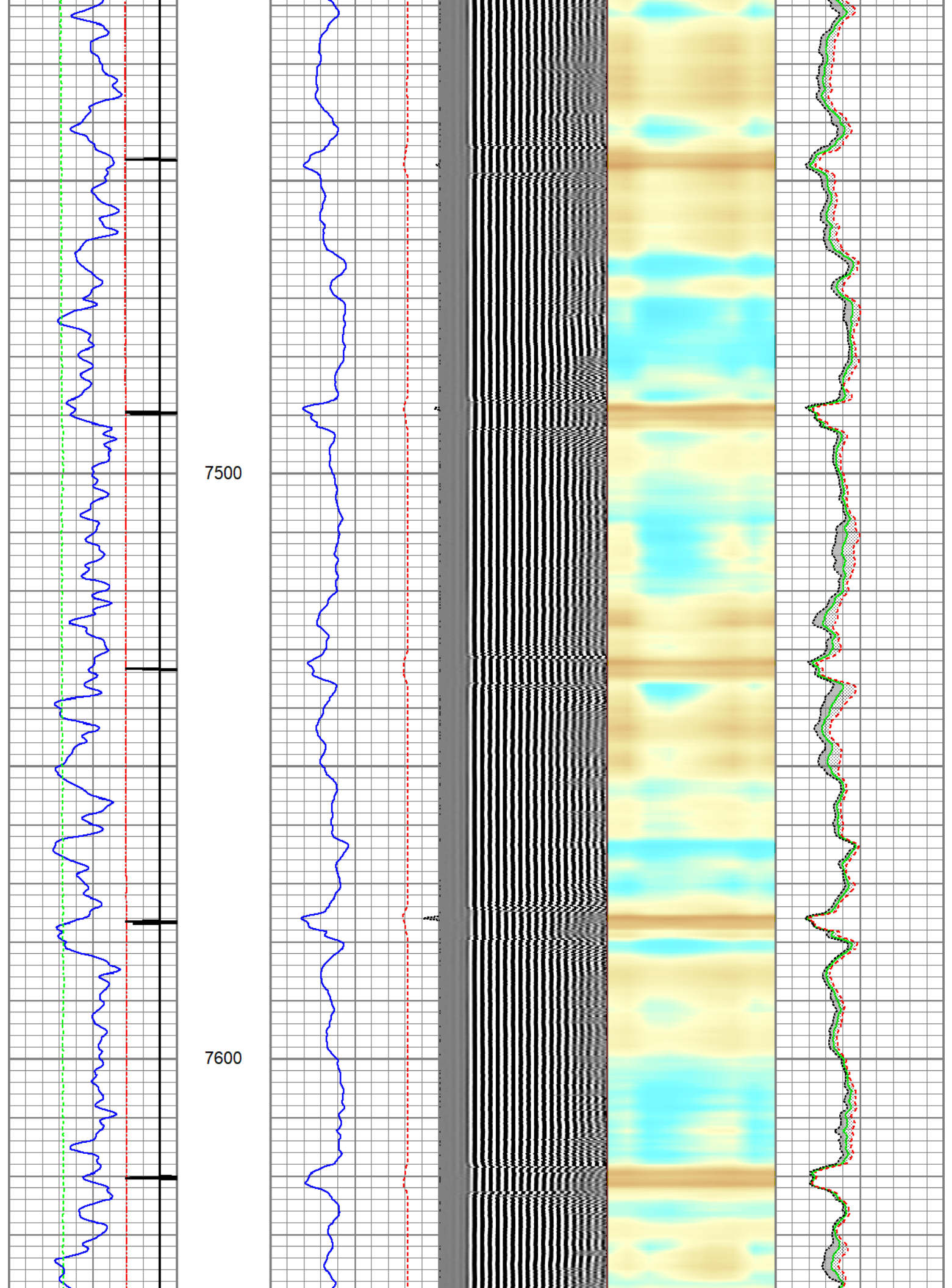
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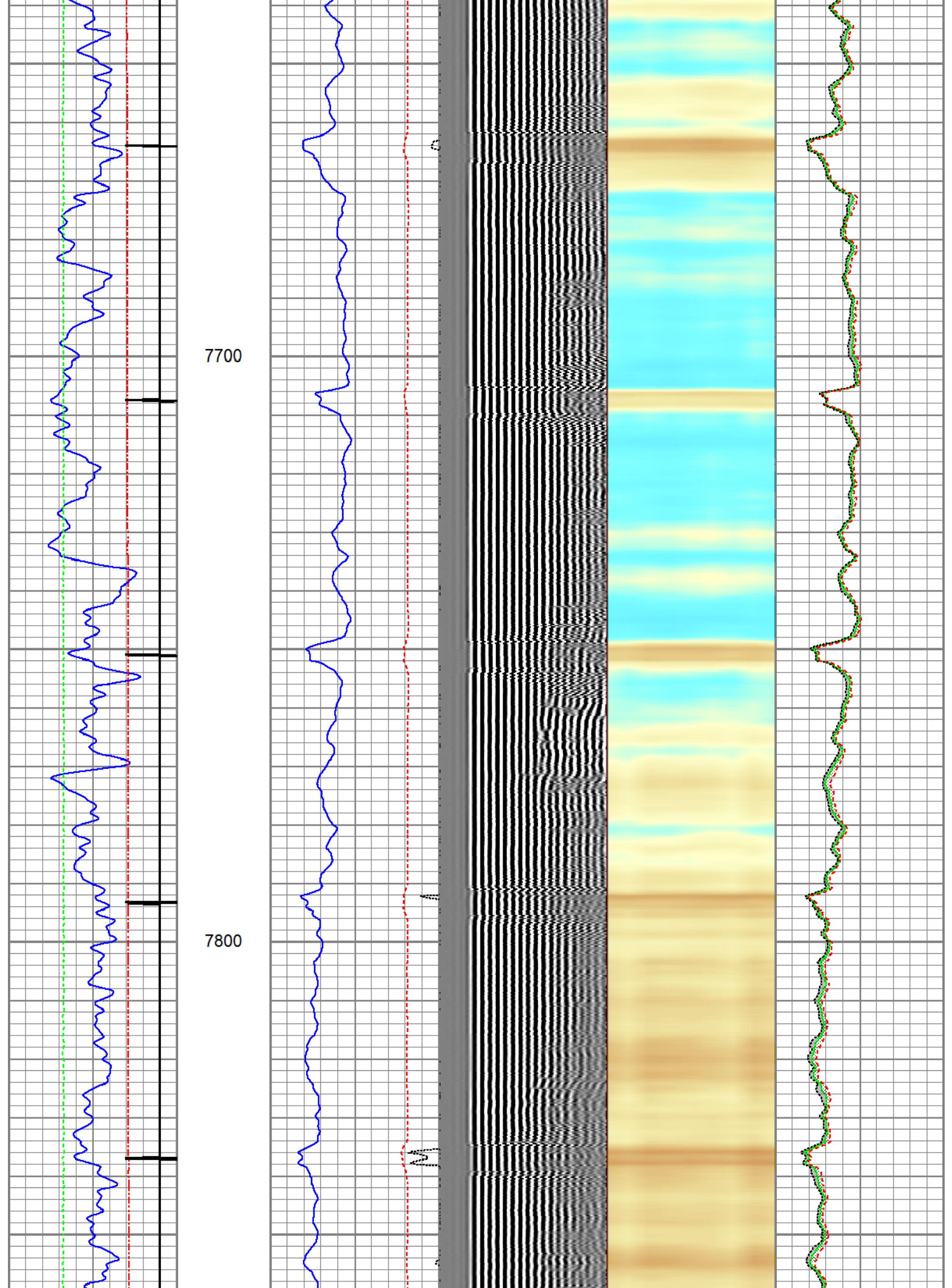


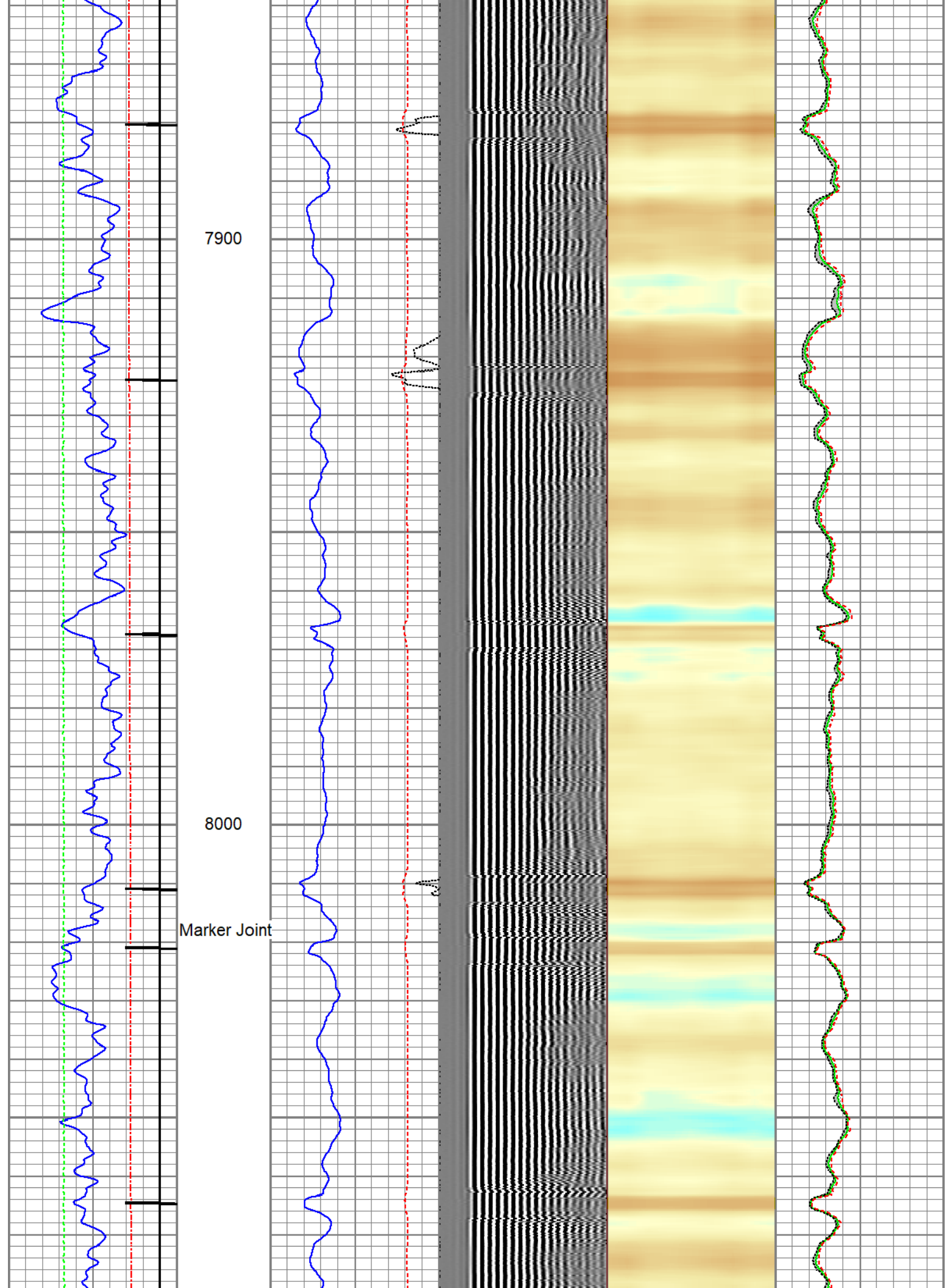


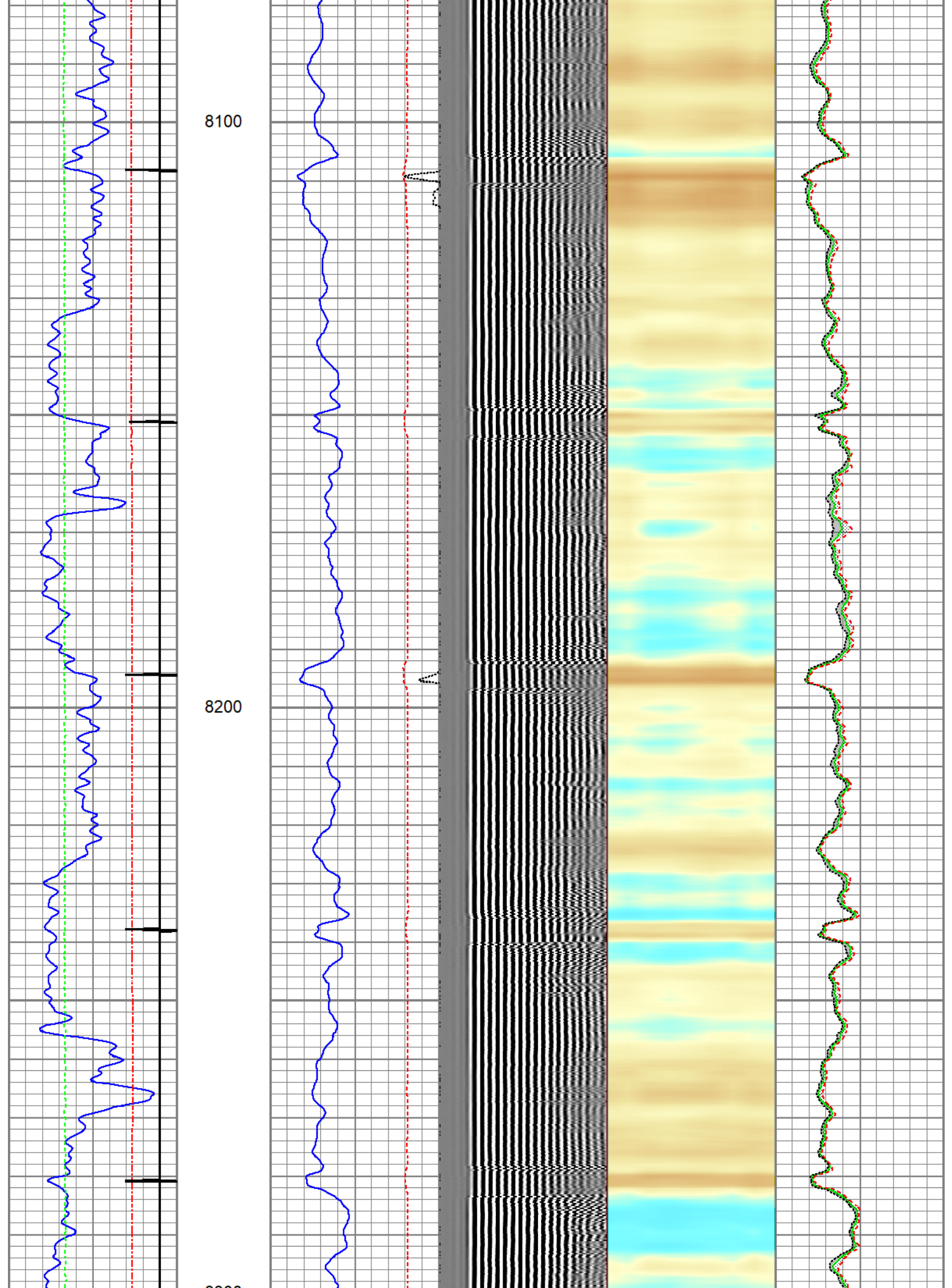








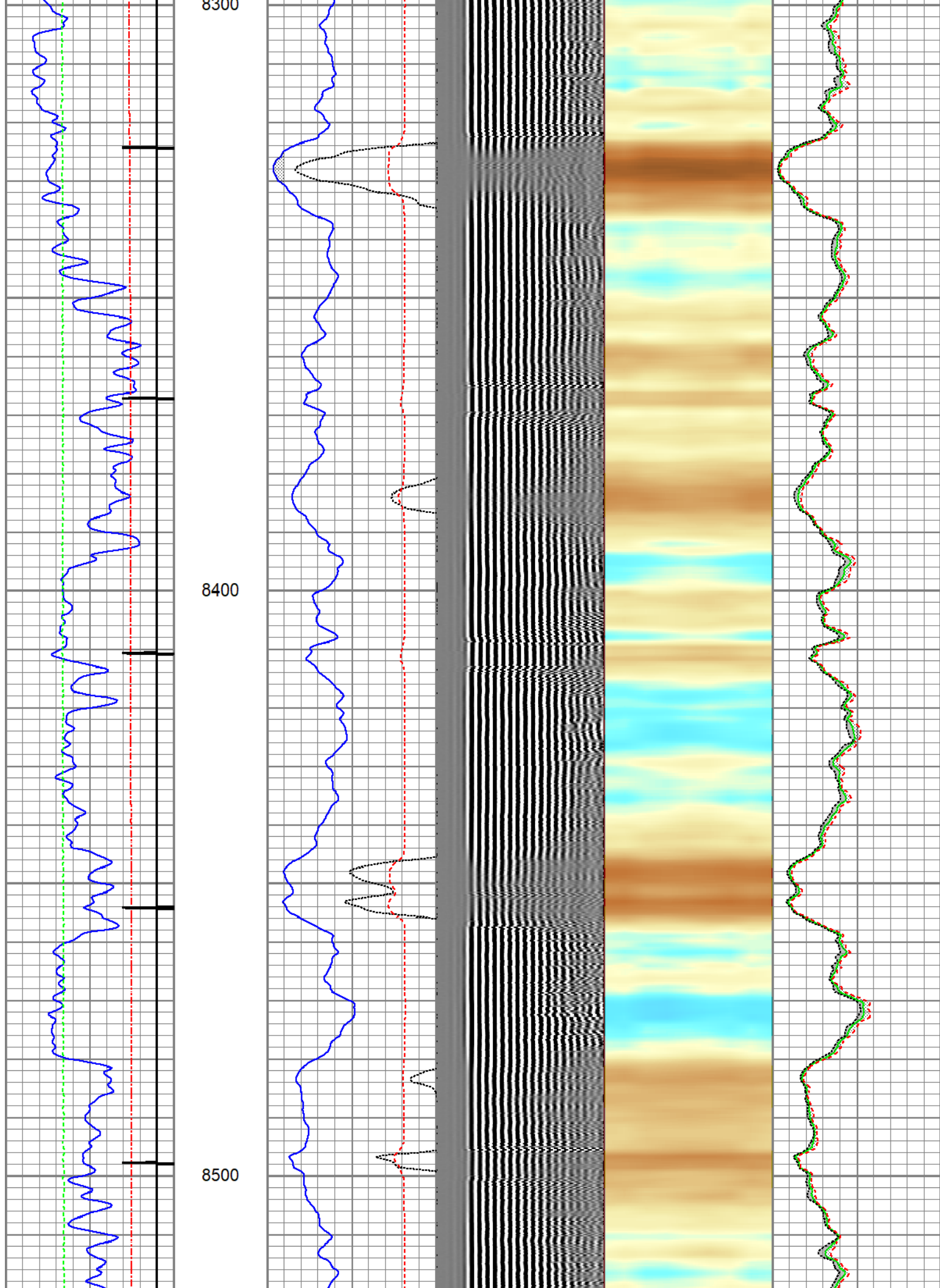


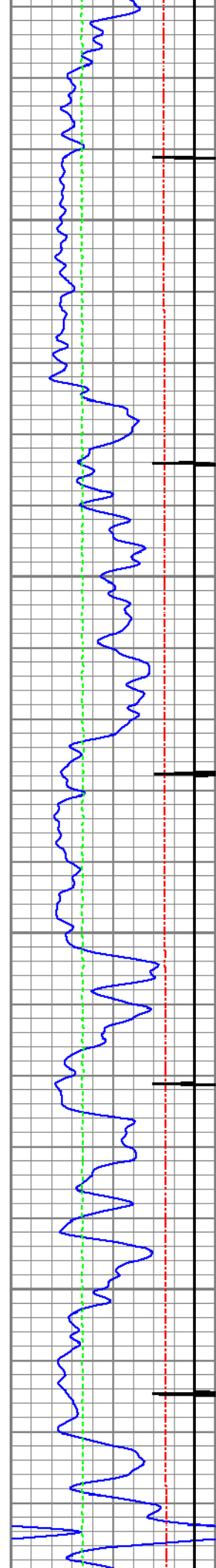


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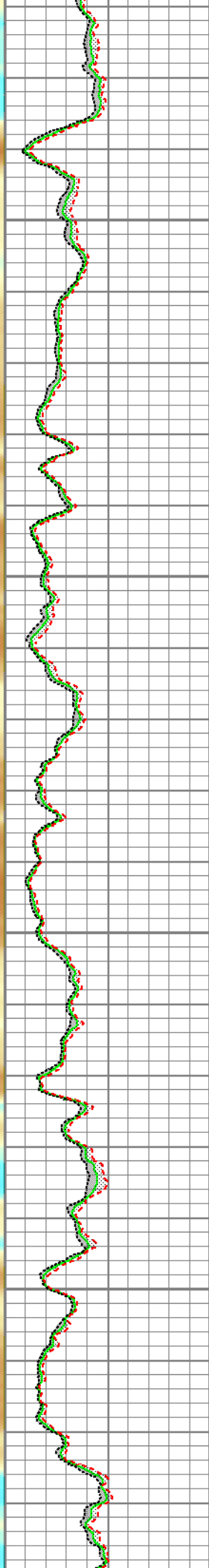
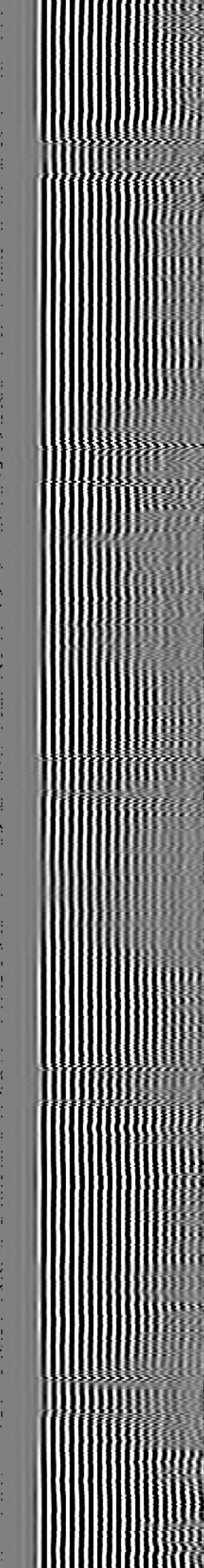
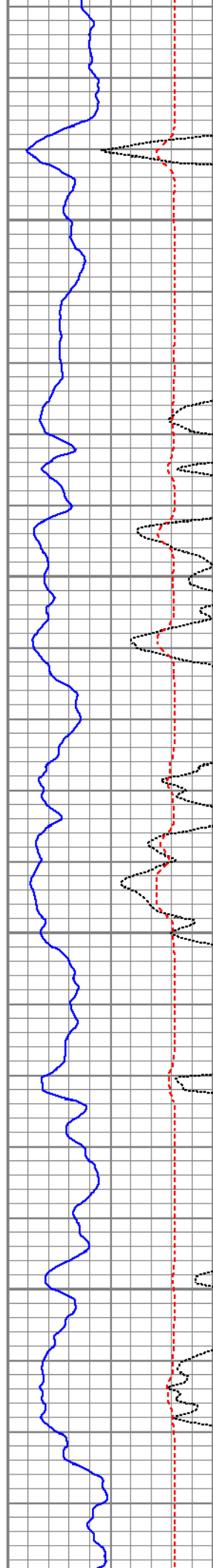
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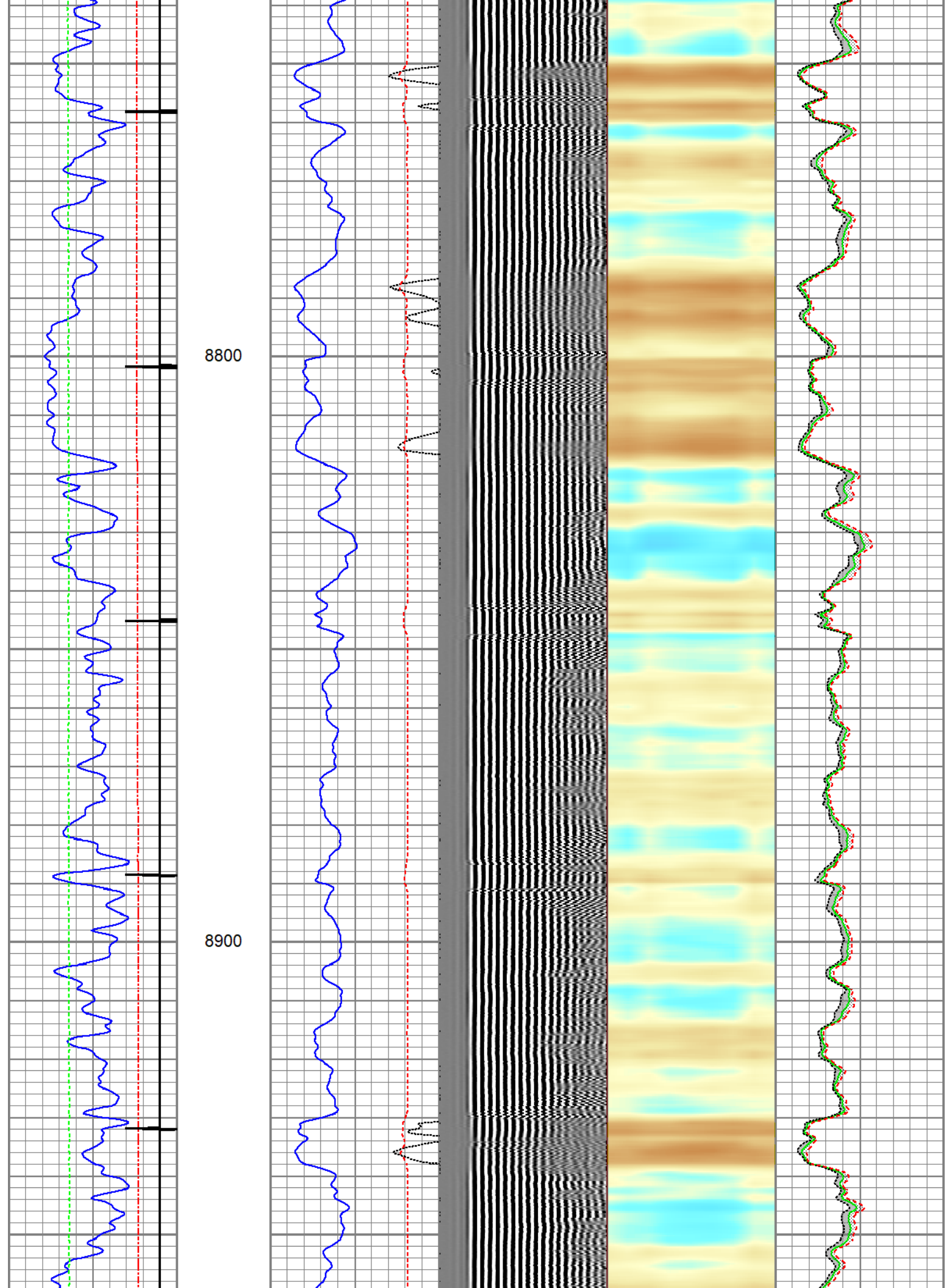


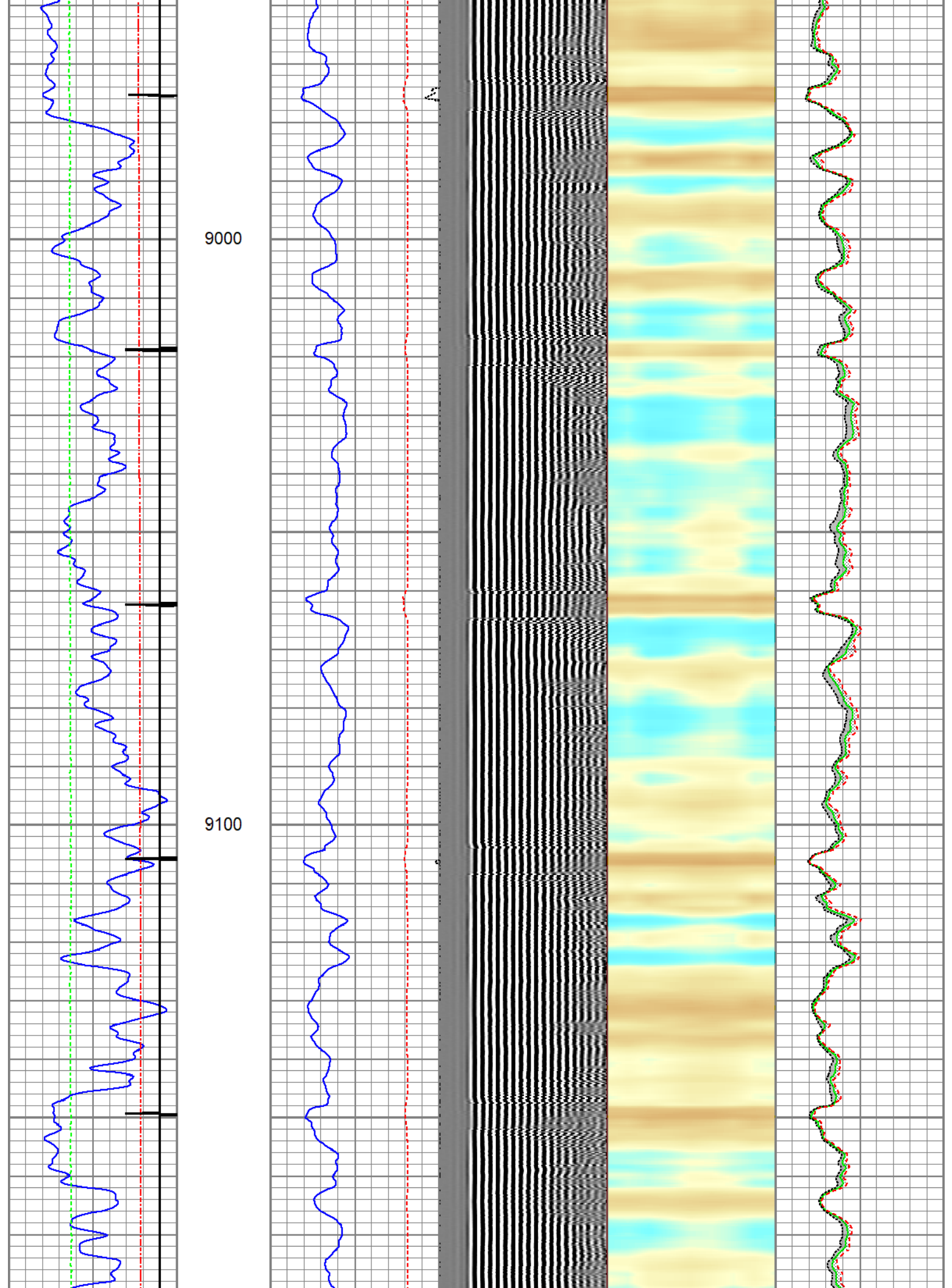


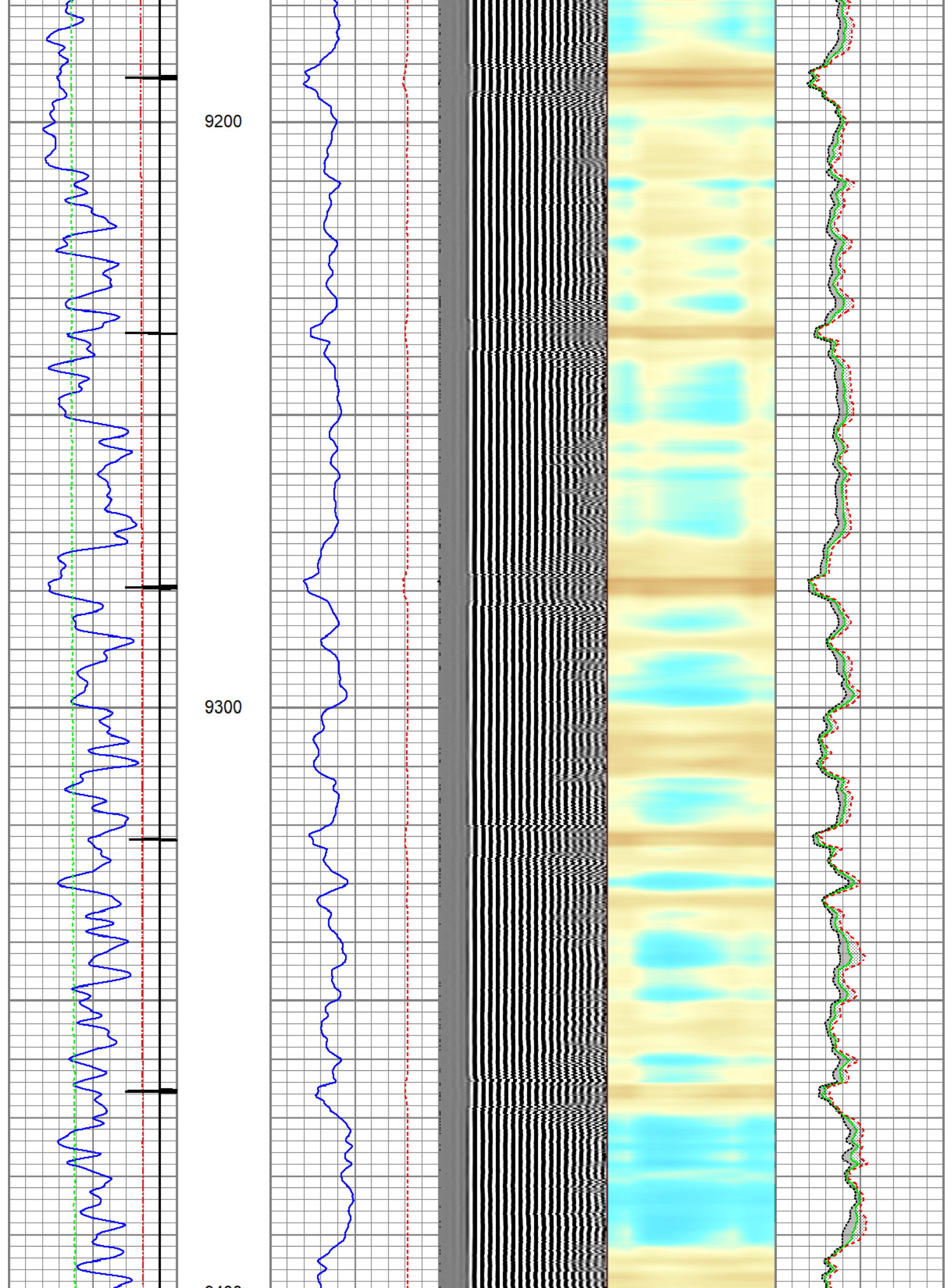
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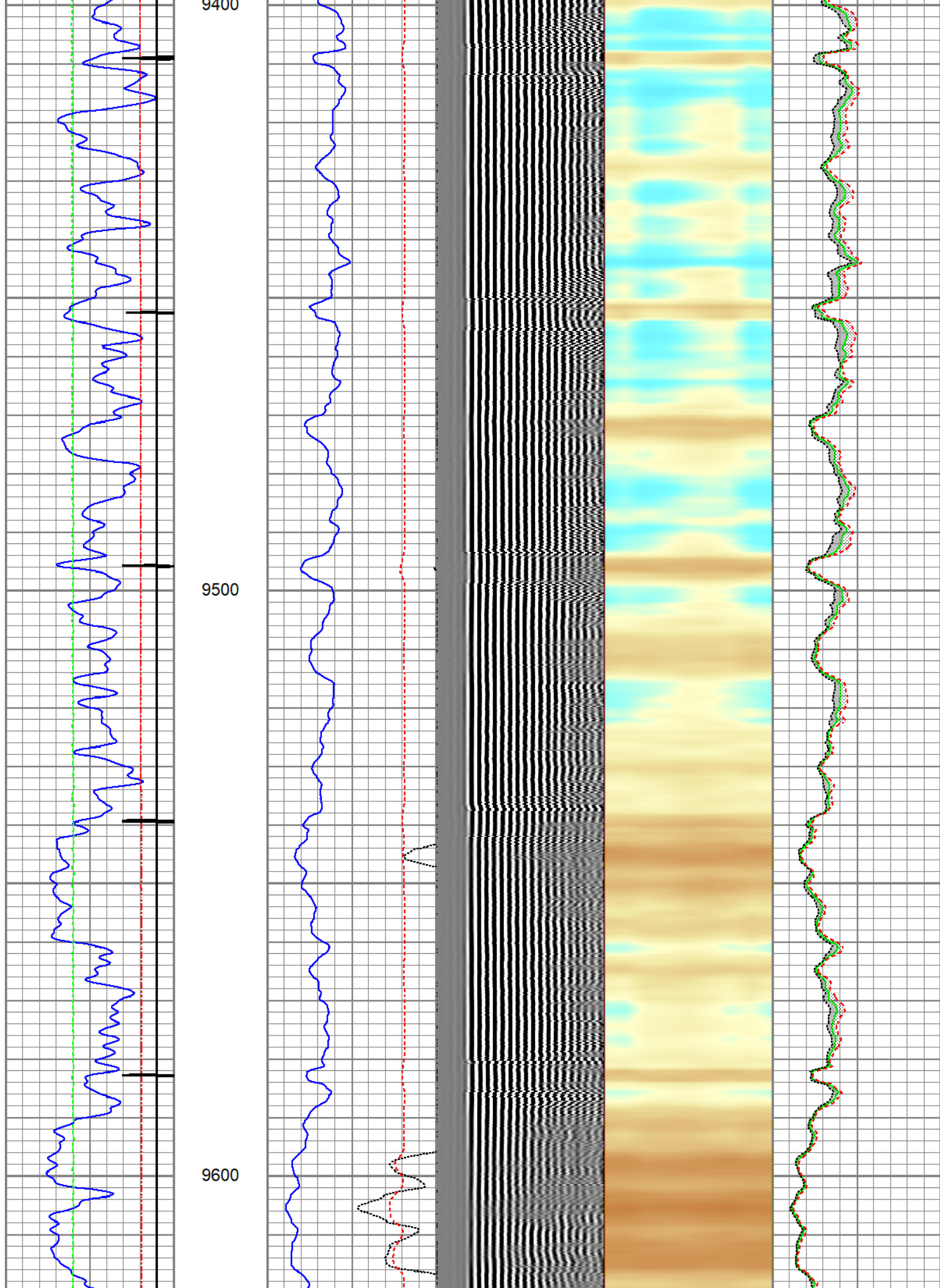




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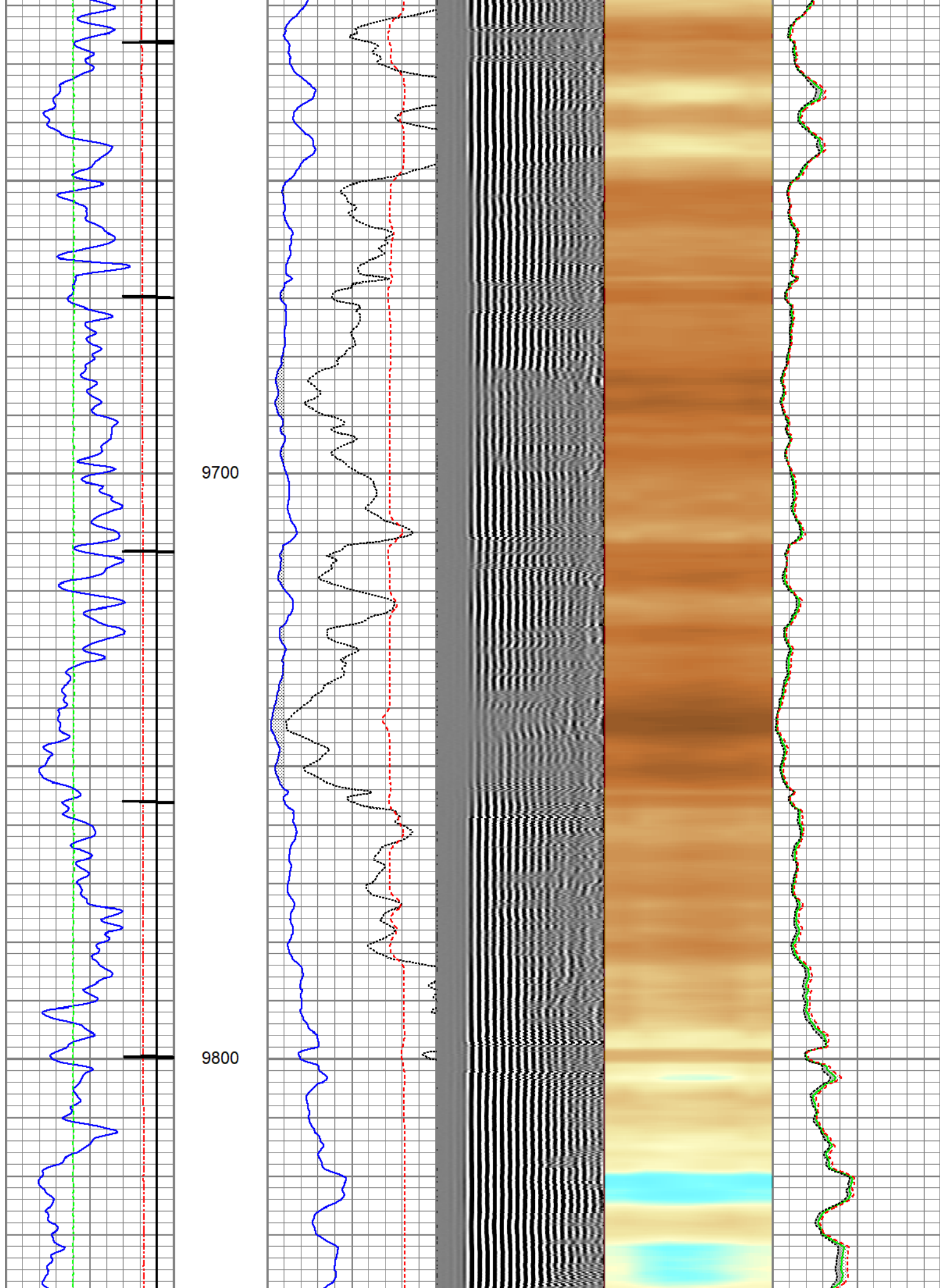
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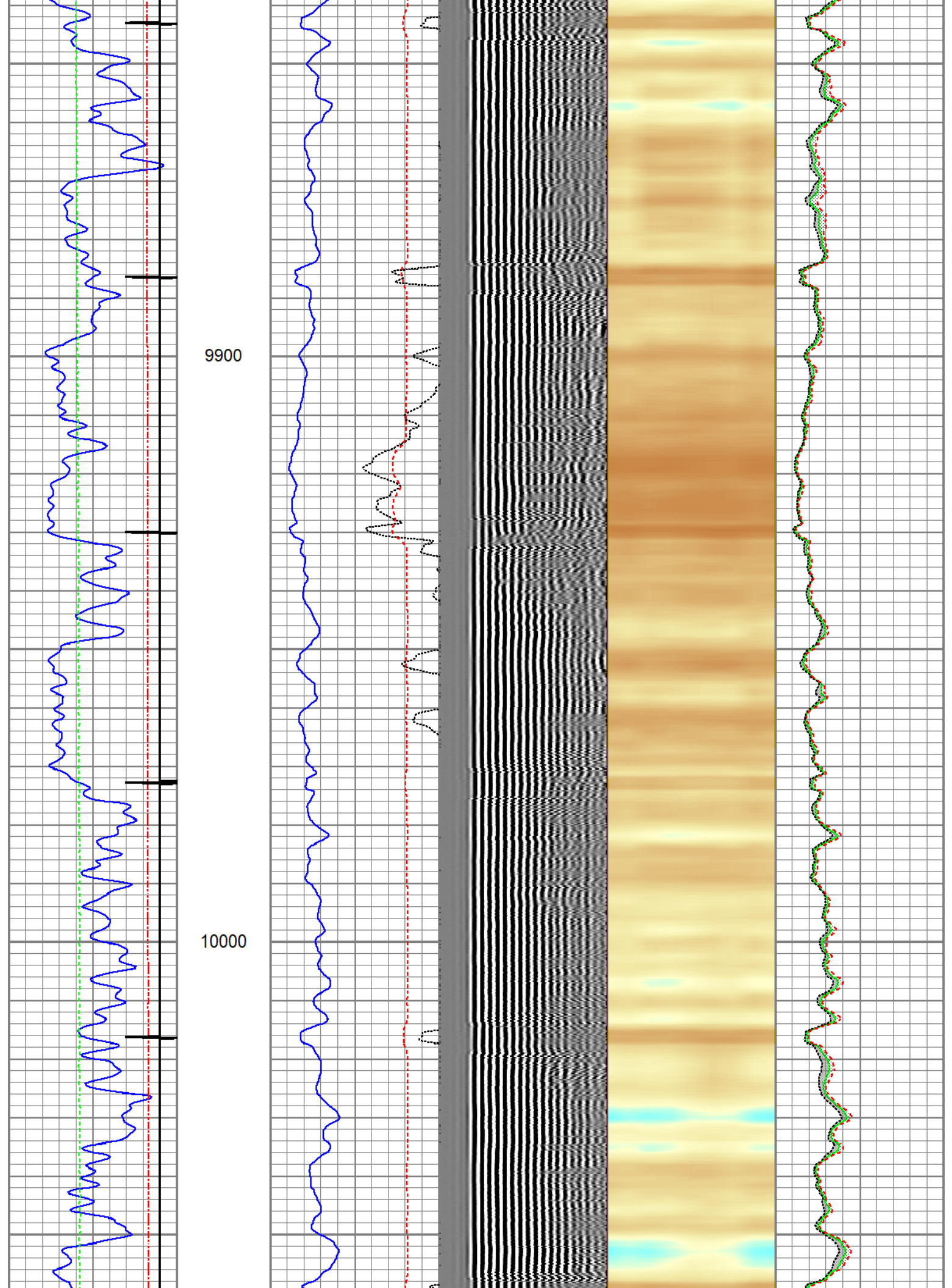
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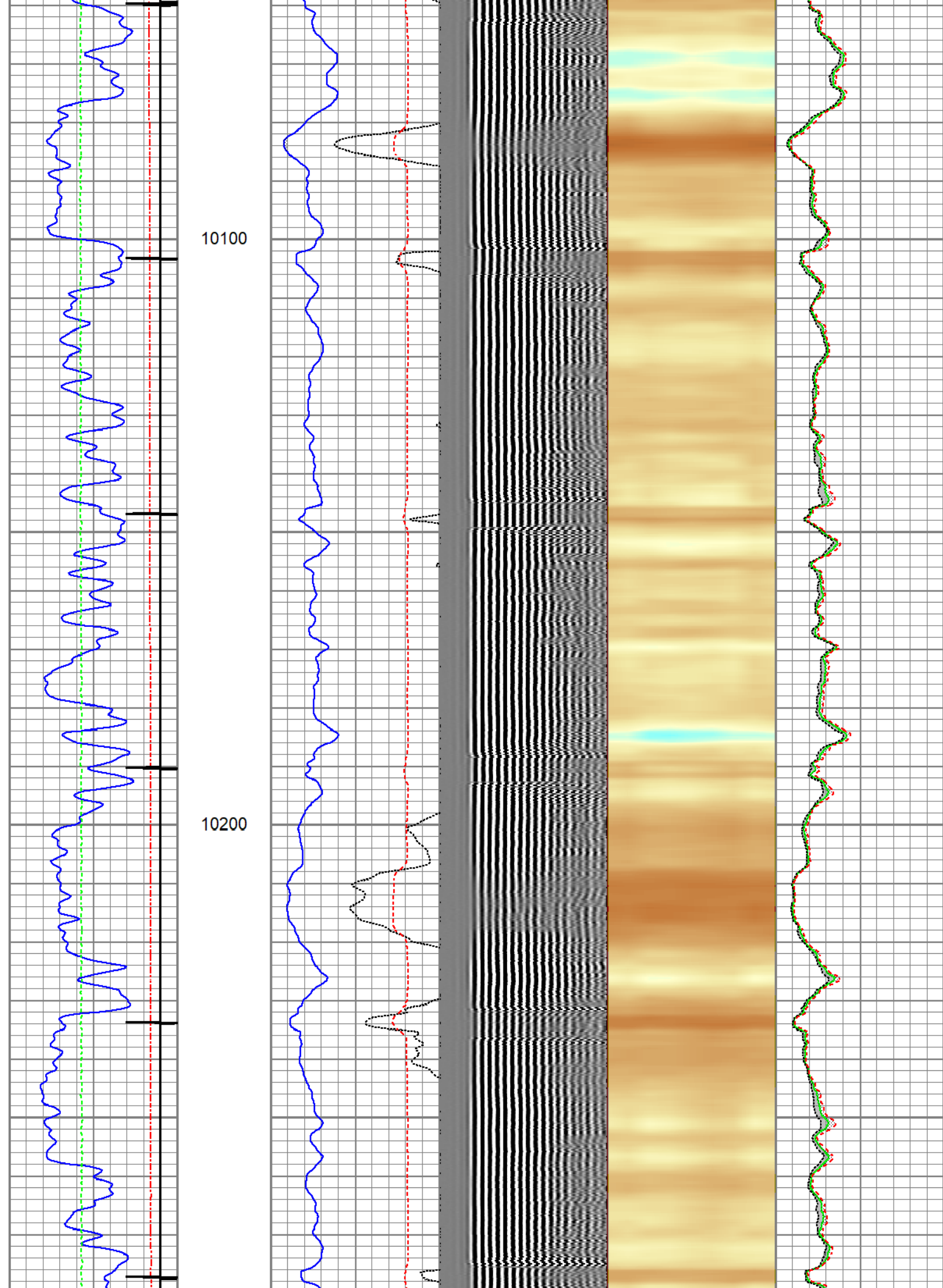


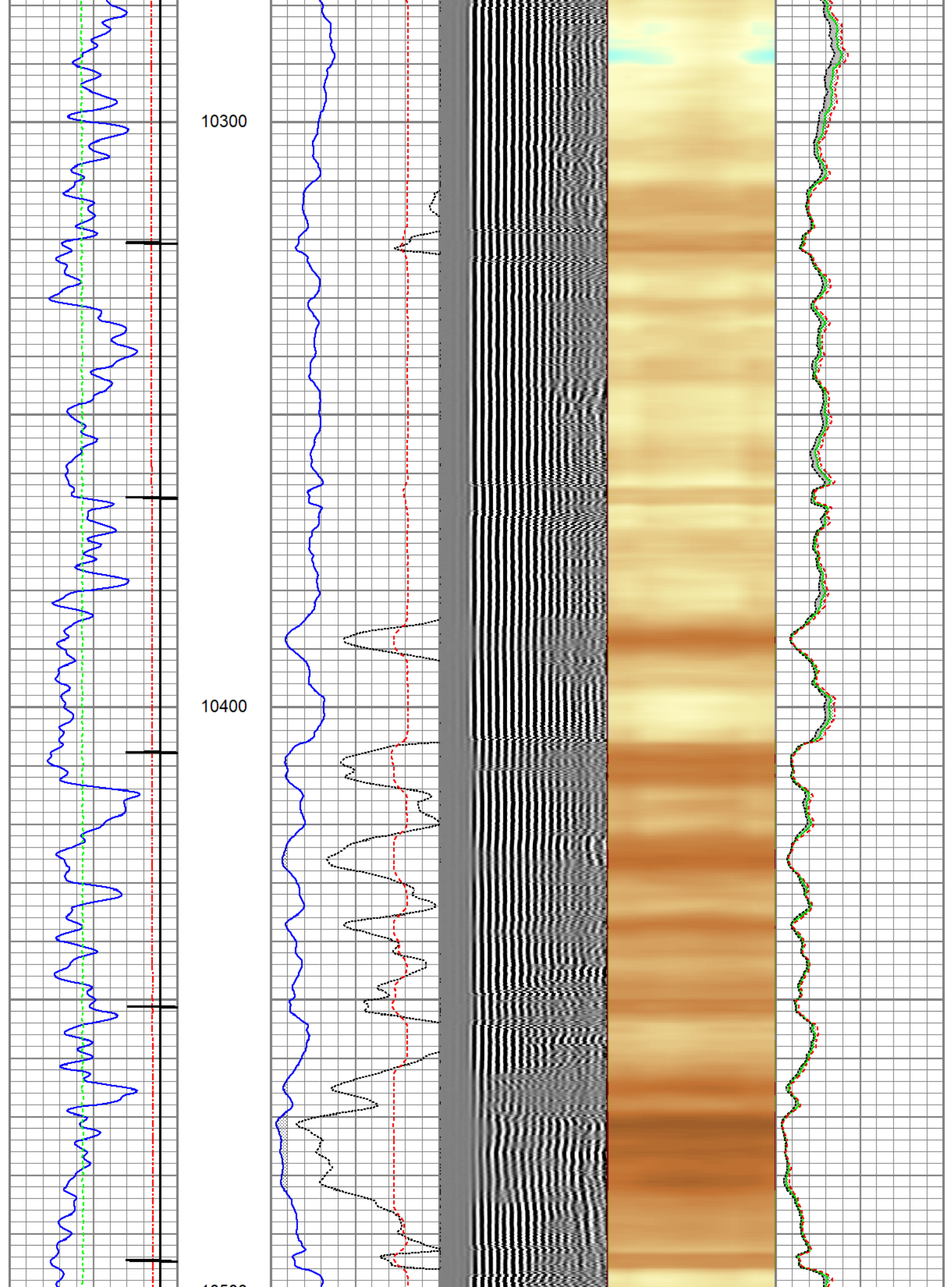
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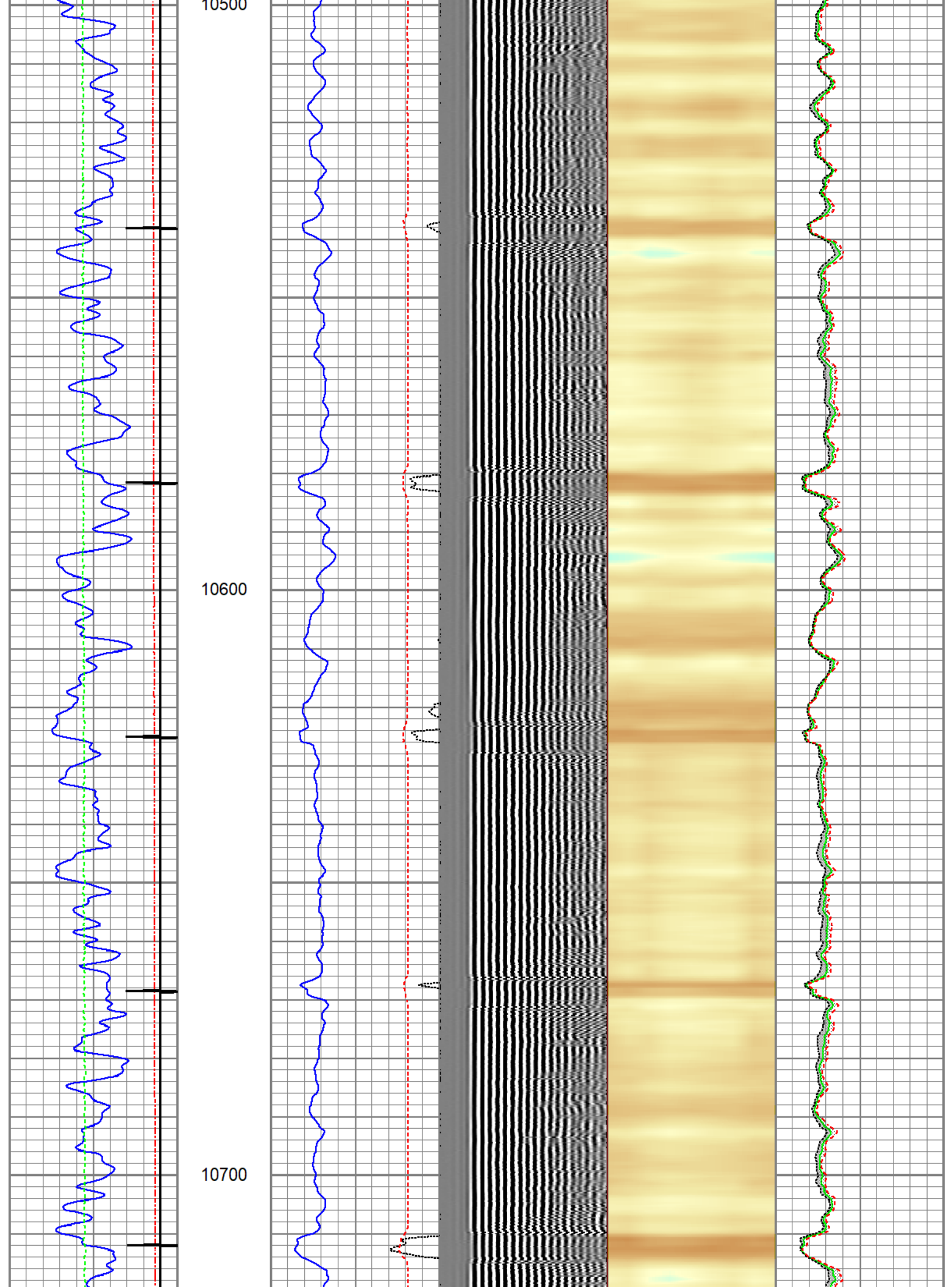
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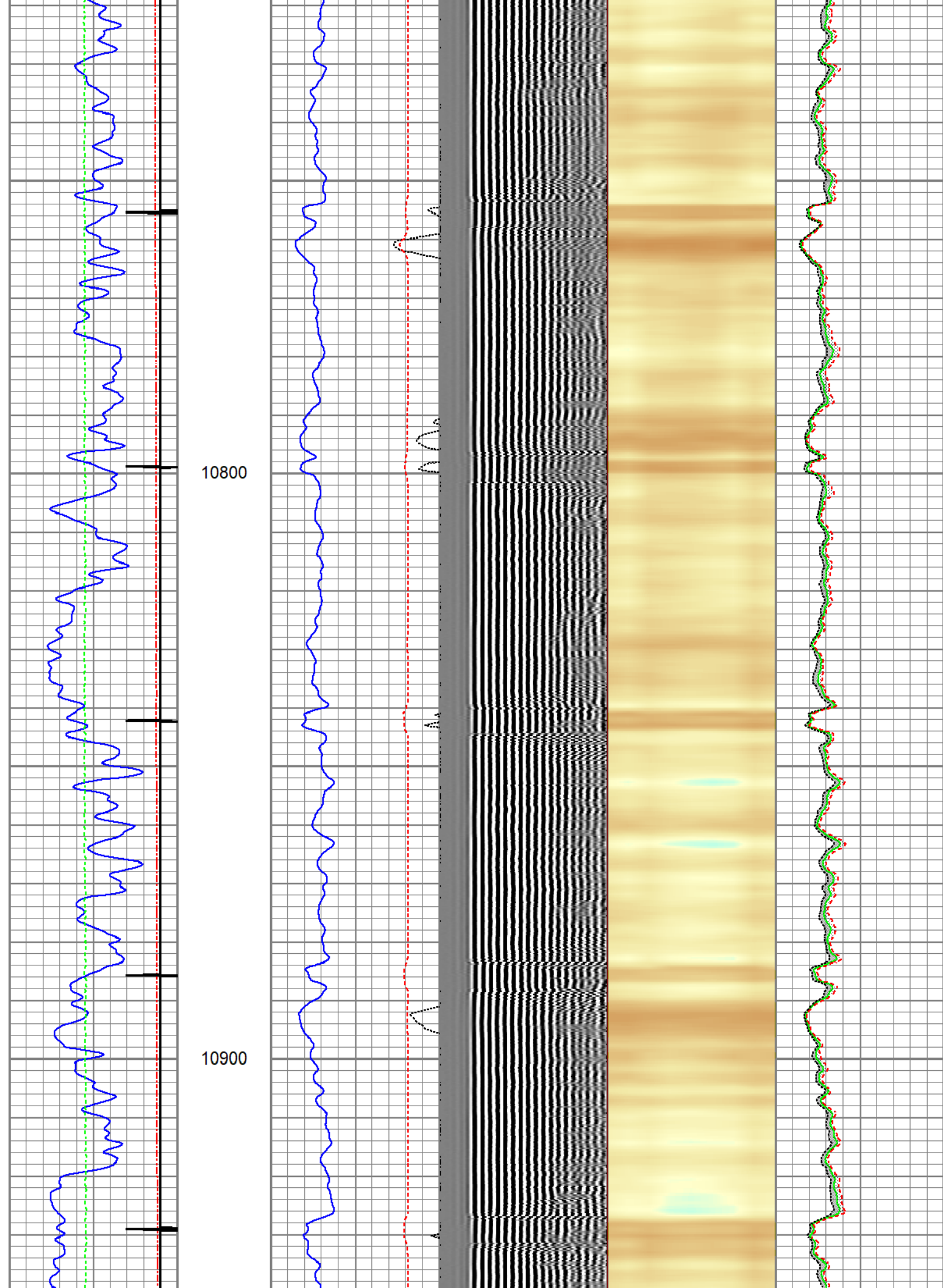






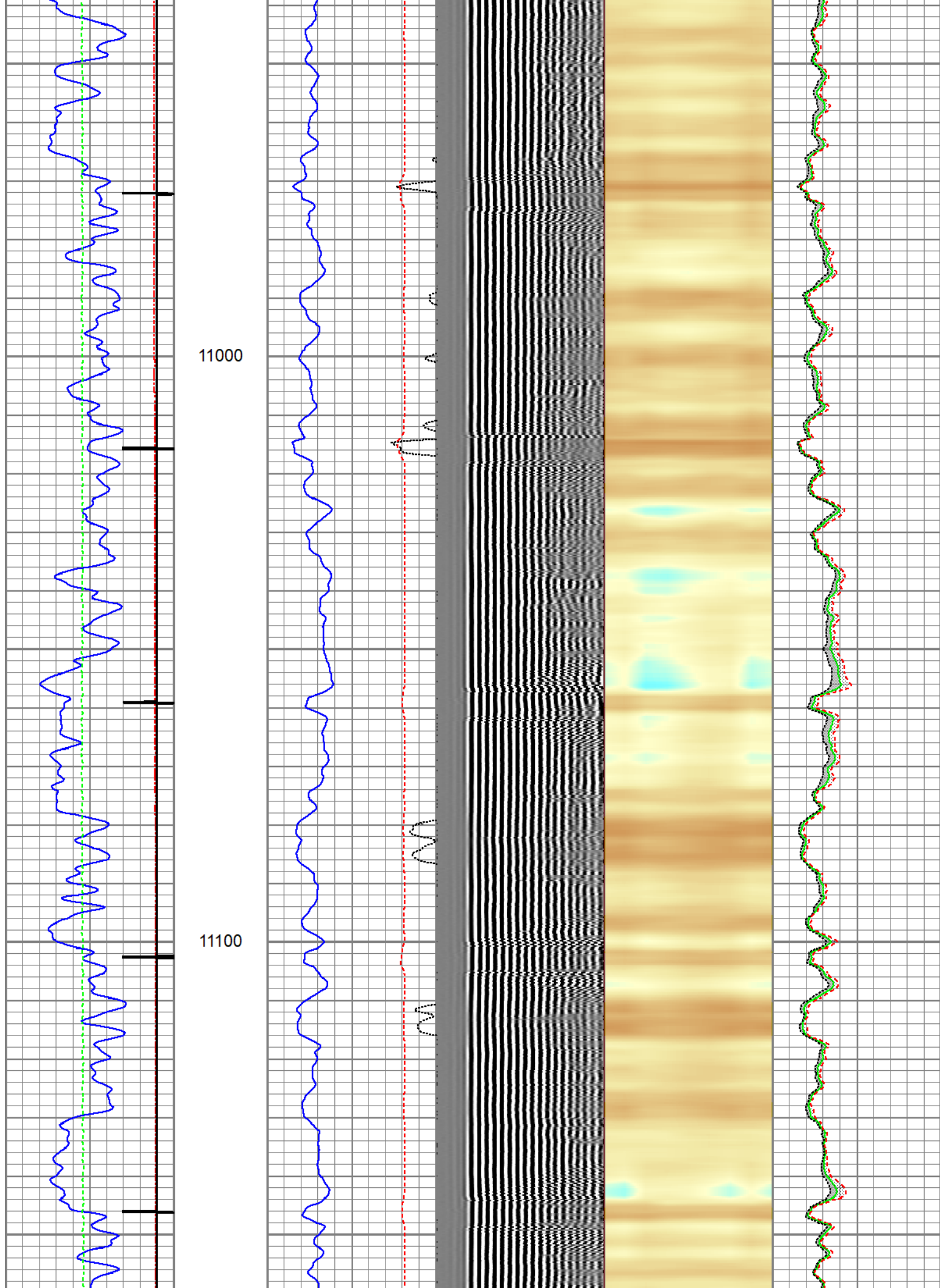






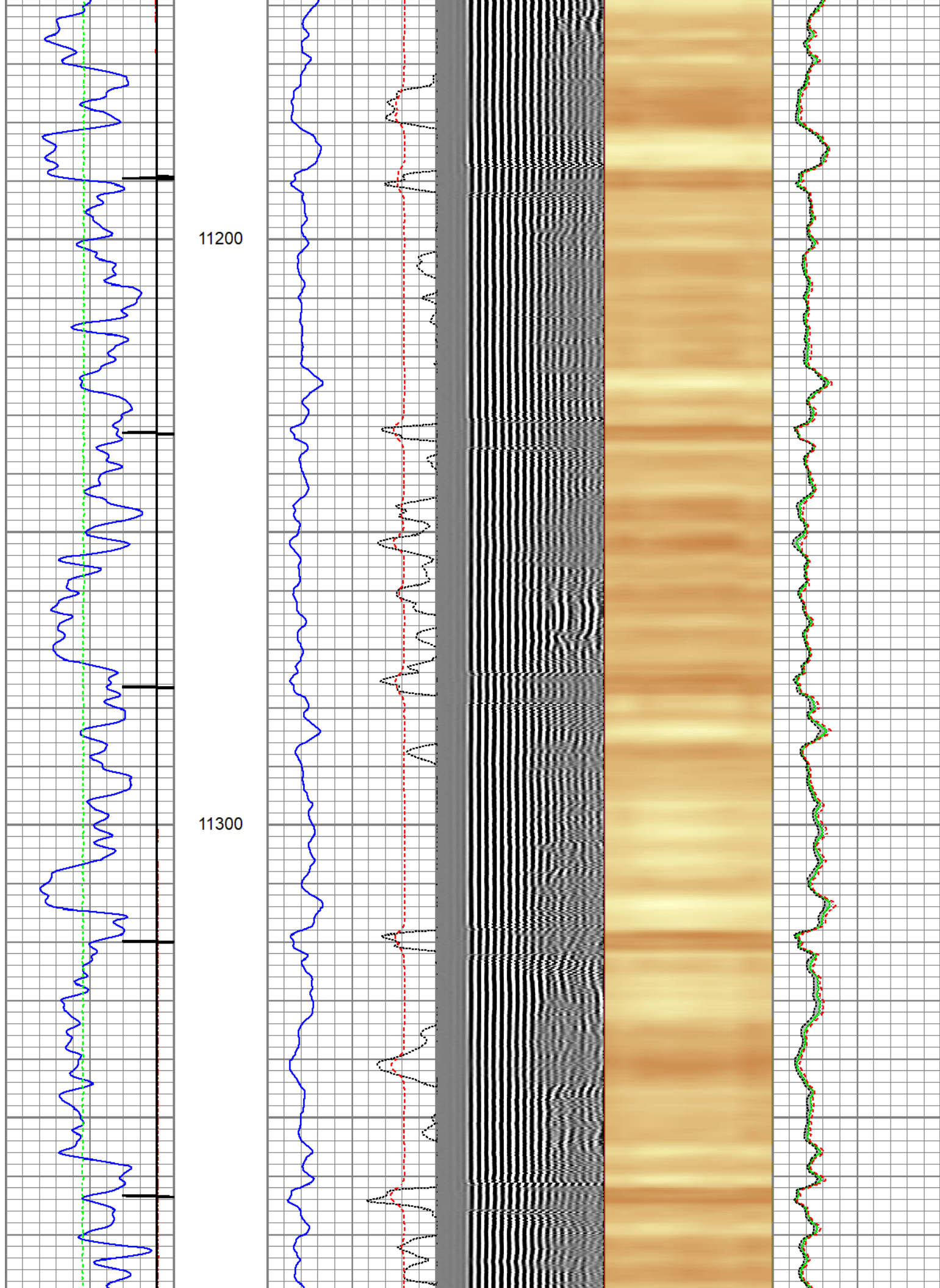
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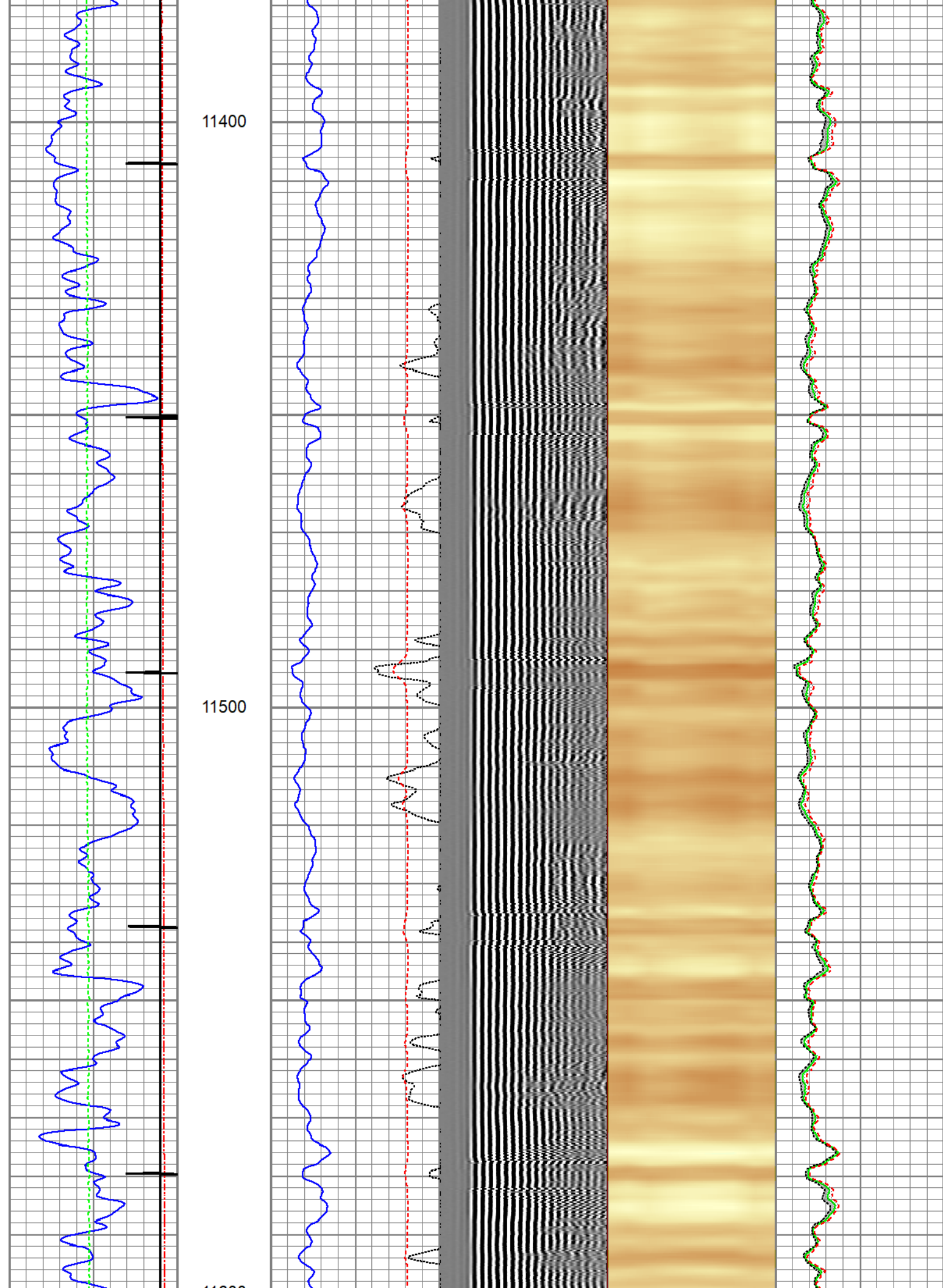
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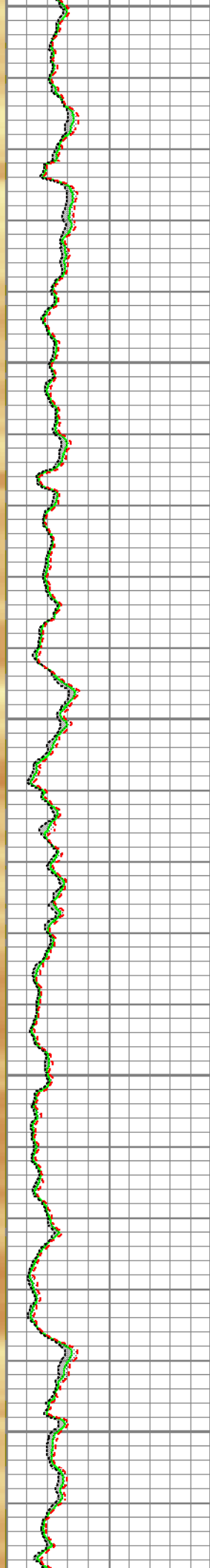
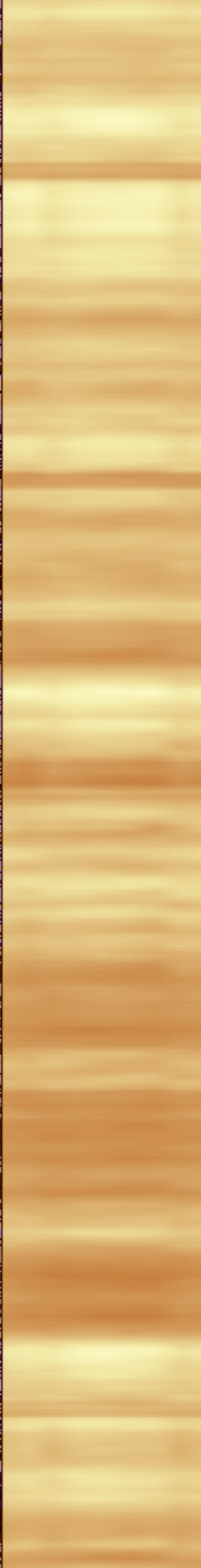
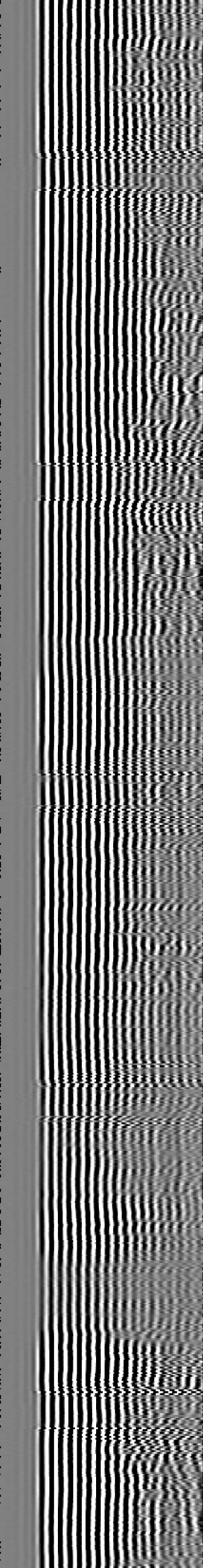
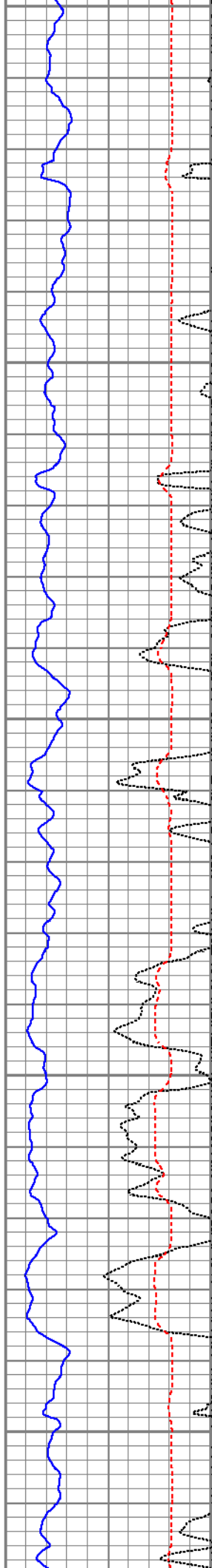
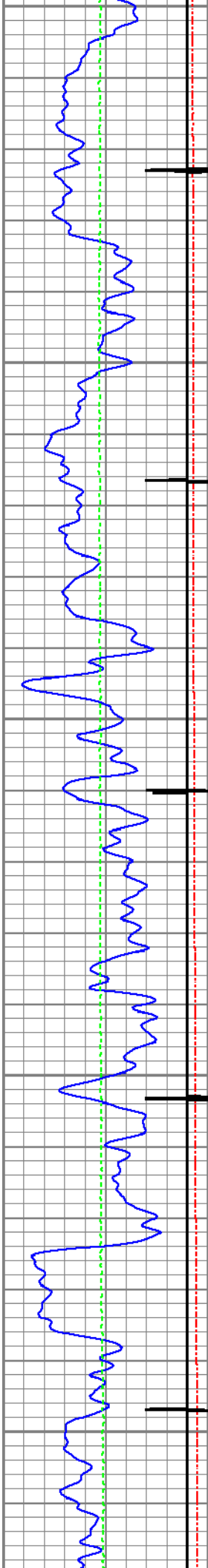


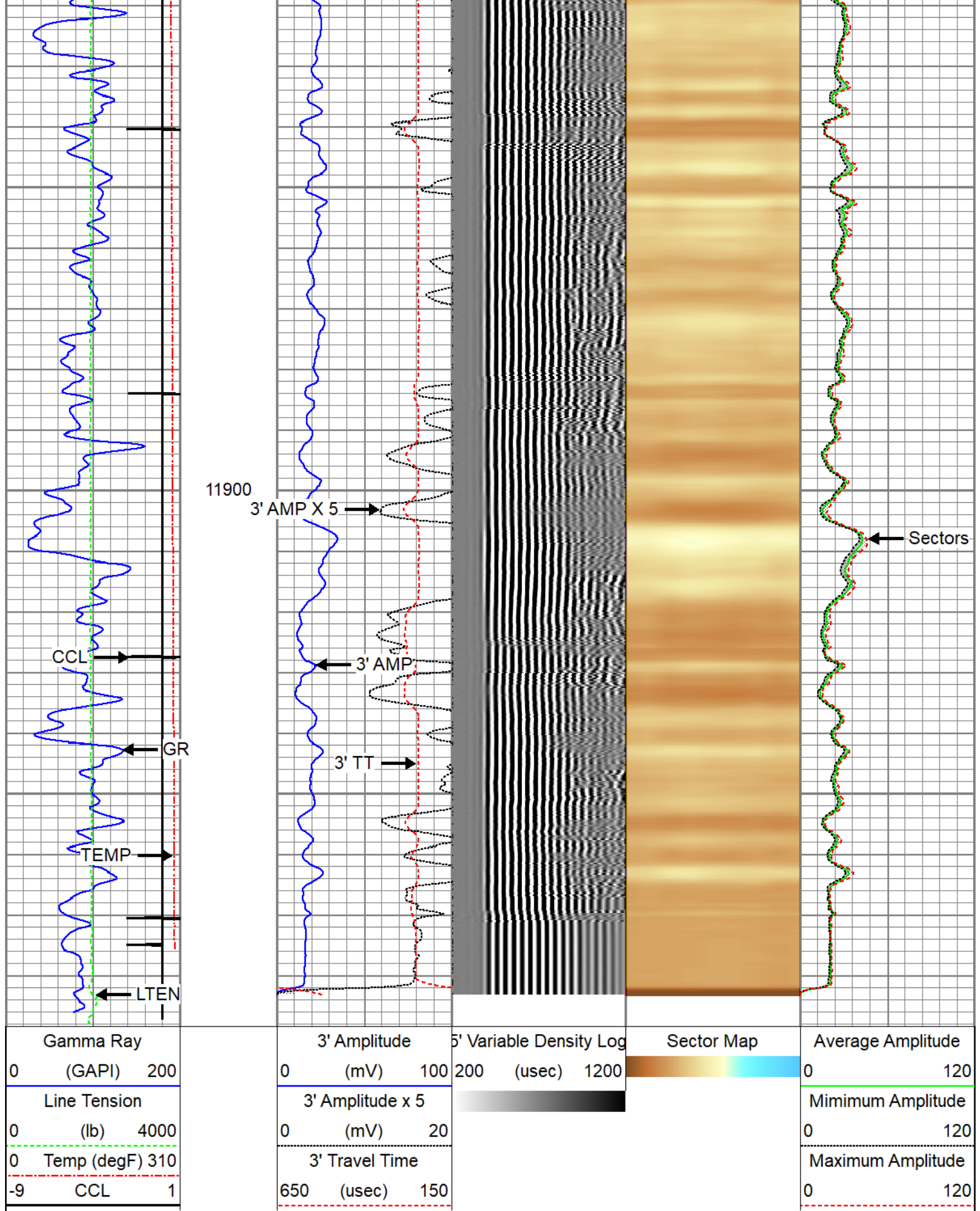


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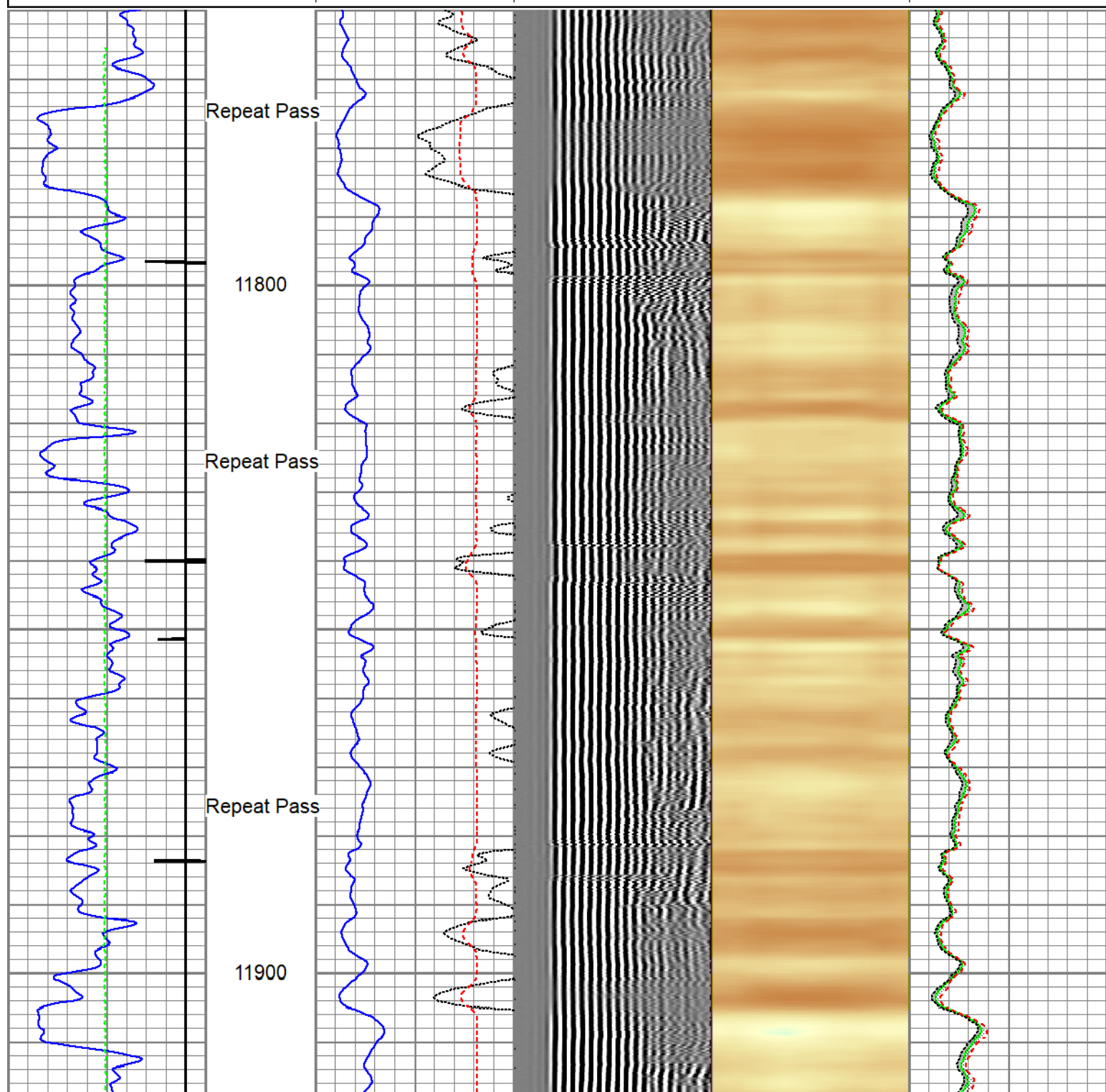
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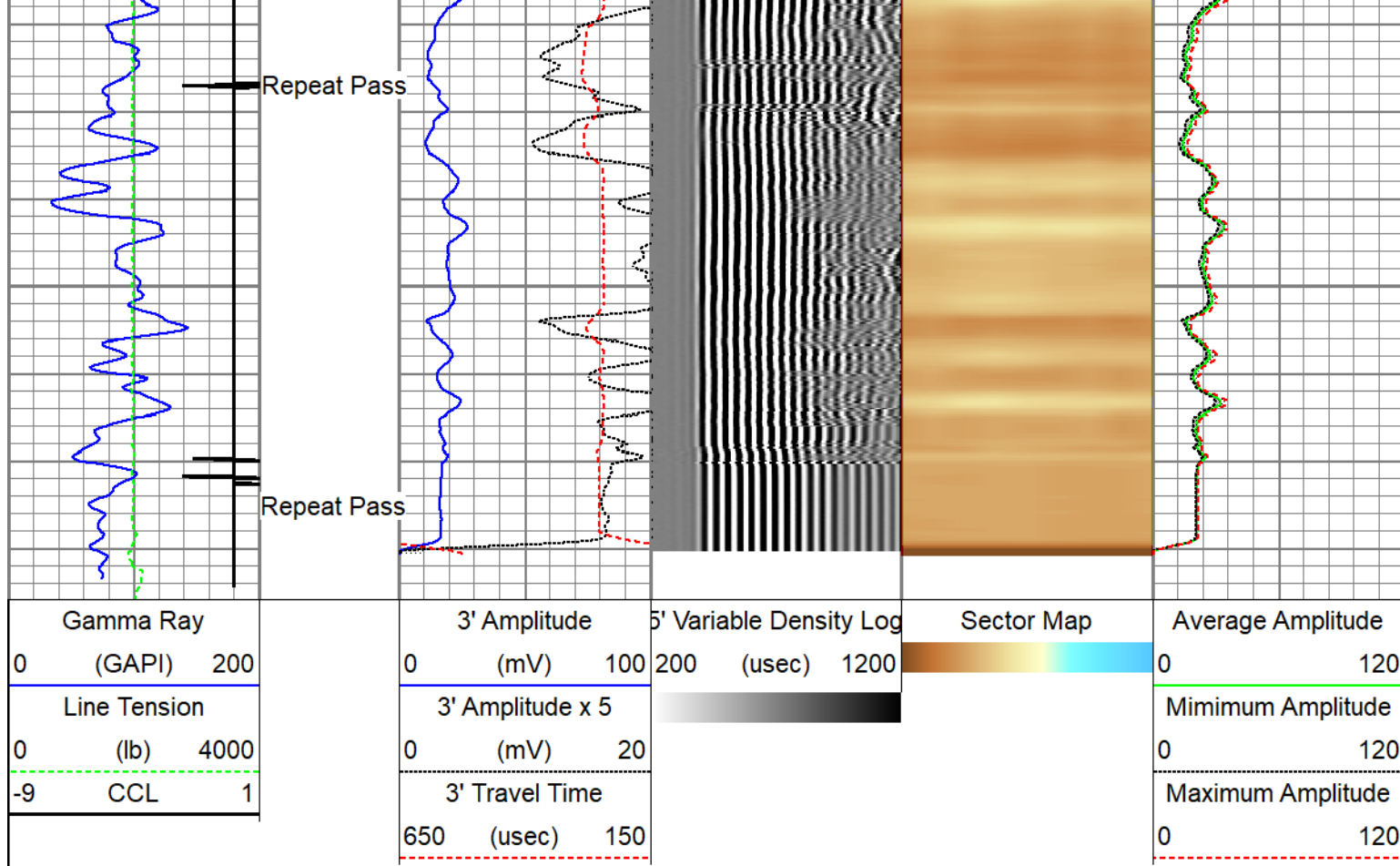




Database File caerus_bju b26 fed 11a-26-496_rcbl_cnl_8-11-2022.db
Dataset Pathname repeat
Presentation Format twgrcbl
Dataset Creation Thu Aug 11 10:44:55 2022
Charted by Depth in Feet scaled 1:240

| Gamma Ray | | | 3' Amplitude | | | 5' Variable Density Log | | | Sector Map | | | Average Amplitude | | |
|--------------|--------|------|------------------|--------|-----|-------------------------|--------|------|------------|--|--|-------------------|--|-----|
| 0 | (GAPI) | 200 | 0 | (mV) | 100 | 200 | (usec) | 1200 | | | | 0 | | 120 |
| Line Tension | | | 3' Amplitude x 5 | | | | | | | | | Minimum Amplitude | | |
| 0 | (lb) | 4000 | 0 | (mV) | 20 | | | | | | | 0 | | 120 |
| -9 | CCL | 1 | 3' Travel Time | | | | | | | | | Maximum Amplitude | | |
| | | | 650 | (usec) | 150 | | | | | | | 0 | | 120 |






| | | | | |
|---|---|--------------|-----------------|---------------|
| Calibration Report | | | | |
| Database File | caerus_bju b26 fed 11a-26-496_rcbl_cnl_8-11-2022.db | | | |
| Dataset Pathname | main | | | |
| Dataset Creation | Thu Aug 11 10:50:55 2022 | | | |
| Compensated Neutron Calibration Report | | | | |
| Model: | | CNT - 275Dig | | |
| Serial Number: | | FW1409-35 | | |
| SHOP CALIBRATION Thu Mar 31 15:47:13 2022 | | | | |
| | Cal Tube | Units | | |
| Tank Ratio | 11.6940 | SS/LS | | |
| LS Detector | 68.71 | cps | | |
| SS Detector | 748.49 | cps | | |
| Tool Ratio | 10.8929 | SS/LS | | |
| Tool Gain | 1.0735 | ---- | | |
| PRE-SURVEY VERIFICATION | | | | |
| | SS Detector | LS Detector | Measured (p.u.) | Target (p.u.) |
| POST-SURVEY VERIFICATION | | | | |
| | SS Detector | LS Detector | Measured (p.u.) | Target (p.u.) |



| Gamma Ray Calibration Report | | | | | |
|------------------------------|-------------|--------------------------|--------|-----|----------|
| Type / Serial: | | Probe275dig / FW1403-107 | | | |
| SHOP CALIBRATION | | (Not Performed) | | | |
| | Counts/Sec. | Gain | Offset | Jig | Units |
| Background | 0.0 | | | | cps |
| Calibrator | 1.0 | 1.0000 | | | cps |
| | | | | | GAPI/cps |
| PRIMARY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | | 0.0 | GAPI |
| BEFORE SURVEY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | | 0.0 | GAPI |
| AFTER SURVEY VERIFICATION | | | | | |
| Background | 0.0 | | | | cps |
| Calibrator | 0.0 | | | | cps |
| Difference | | | | 0.0 | GAPI |


| Segmented Cement Bond Log Calibration Report | | | | | | |
|--|---------|-------------|-----------------|---------|---------|--------|
| Serial Number: | | FW1312-30 | | | | |
| Tool Model: | | Probe275acc | | | | |
| Calibration Casing Diameter: | | 4.500 | in | | | |
| Calibration Depth: | | 38.050 | ft | | | |
| Master Calibration, performed Wed Aug 10 13:22:25 2022: | | | | | | |
| | Raw (v) | | Calibrated (mv) | | Results | |
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | 0.003 | 0.662 | 0.000 | 81.196 | 123.155 | -0.316 |
| CAL | 0.004 | 0.667 | | | | |
| 5' | 0.001 | 0.652 | 0.000 | 81.196 | 124.660 | -0.079 |
| SUM | | | | | | |
| S1 | 0.003 | 0.671 | 0.000 | 100.000 | 149.645 | -0.471 |
| S2 | 0.003 | 0.679 | 0.000 | 100.000 | 147.905 | -0.413 |
| S3 | 0.003 | 0.667 | 0.000 | 100.000 | 150.439 | -0.382 |
| S4 | 0.002 | 0.663 | 0.000 | 100.000 | 151.228 | -0.338 |
| S5 | 0.003 | 0.671 | 0.000 | 100.000 | 149.579 | -0.424 |
| S6 | 0.003 | 0.672 | 0.000 | 100.000 | 149.391 | -0.425 |
| S7 | 0.002 | 0.670 | 0.000 | 100.000 | 149.784 | -0.368 |
| S8 | 0.003 | 0.669 | 0.000 | 100.000 | 149.993 | -0.410 |
| Internal Reference Calibration, performed (Not Performed): | | | | | | |
| | Raw (v) | | Calibrated (v) | | Results | |
| | Zero | Cal | Zero | Cal | Gain | Offset |

| | | | | | | |
|---|---------|-------|----------------|-------|---------|-------|
| CAL | 0.000 | 0.000 | 0.004 | 0.667 | 1.000 | 0.000 |
| Air Zero Calibration, performed Wed Aug 10 13:22:44 2022: | | | | | | |
| | Raw (v) | | Calibrated (v) | | Results | |
| | Zero | | Zero | | Offset | |
| 3' | 0.003 | | 0.000 | | 0.000 | |
| 5' | 0.002 | | 0.000 | | -0.001 | |
| SUM | | | | | | |
| S1 | 0.003 | | 0.000 | | 0.001 | |
| S2 | 0.002 | | 0.000 | | 0.000 | |
| S3 | 0.002 | | 0.000 | | 0.000 | |
| S4 | 0.002 | | 0.000 | | -0.000 | |
| S5 | 0.003 | | 0.000 | | 0.000 | |
| S6 | 0.003 | | 0.000 | | 0.000 | |
| S7 | 0.002 | | 0.000 | | 0.000 | |
| S8 | 0.003 | | 0.000 | | -0.000 | |

| | | | | | | |
|---------------------------------|--------------------------|------------|----------|-----------|-----|--|
| Inclinometer Calibration Report | | | | | | |
| Performed: | Thu Jul 28 15:46:49 2022 | | | | | |
| | Low Read. | High Read. | Low Ref. | High Ref. | | |
| X Accelerometer | -931.00 | 904.00 | -1.00 | 1.00 | gee | |
| Y Accelerometer | -899.00 | 884.00 | -1.00 | 1.00 | gee | |
| Z Accelerometer | 1.47 | 886.18 | 0.00 | 1.00 | gee | |

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|---|--|-------------|-----------|-------------|
| | |  | | | | |
| | | | SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer | 1.33 | 3.25 | 10.00 |
| WVFS8 | 14.27 | | RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer | 8.75 | 2.75 | 110.00 |
| WVFS7 | 14.27 | | | | | |
| WVFS6 | 14.27 | | | | | |
| WVFS5 | 14.27 | | | | | |
| WVFS4 | 14.27 | | | | | |
| WVFS3 | 14.27 | | | | | |
| WVFS2 | 14.27 | | | | | |
| WVFS1 | 14.27 | | | | | |
| WVF3FT | 14.27 | | | | | |
| WVF5FT | 13.27 | | | | | |

| | | | | | | | | | | | |
|---------------|-------|--|--|------|------|-------|--|--|--|--|--|
| RBT_ACCZ | 10.02 |  | SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer | 1.33 | 3.25 | 10.00 | | | | | |
| RBT_ACCY | 10.02 | | | | | | | | | | |
| RBT_ACCX | 10.02 | | | | | | | | | | |
| WVFSYNC | 10.02 | | | | | | | | | | |
| WVFCAL | 10.02 | | | | | | | | | | |
| DCCL | 9.11 | | | | | | | | | | |
| CCL | 9.11 |  | GR-Probe275dig (FW1403-107) Probe Digital Gamma CCL | 4.78 | 2.75 | 57.00 | | | | | |
| GR | 7.78 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| CNLSC | 1.91 | | CNT-275Dig (FW1409-35) Probe Digital CNL | 5.24 | 2.75 | 40.00 | | | | | |
| CNSSC | 1.48 | | | | | | | | | | |
| | | | SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer | 1.33 | 3.25 | 10.00 | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Dataset: | | caerus_bju b26 fed 11a-26-496_rcbl_cnl_8-11-2022.db: field/well/run1/main1 | | | | | | | | | |
| Total length: | | 18.77 ft | | | | | | | | | |
| Total weight: | | 237.00 lb | | | | | | | | | |
| O.D.: | | 3.25 in | | | | | | | | | |

| | | | | | |
|--|------------------------|--------------------|----------|--|--|
| Company | Caerus Piceance LLC. | | | | |
| Well | BJU B26 FED 11A-26-496 | | | | |
| Field | Grand Valley | | | | |
| County | Garfield | State | Colorado | | |
|  | | Radial Cement Bond | | | |
| | | Gamma Ray | | | |
| | | Casing Collar Log | | | |
| | | | | | |