



RADIAL CEMENT BOND LOG
GAMMA RAY / CCL

| | | | | | | | |
|--|---------------------------------|---------|----------|------------------------------|---------------|---------|-------|
| Company | WPX ENERGY | | | | | | |
| Well | BOSELY SG 702 - 23 - HN1 | | | | | | |
| Field | GRAND VALLEY | | | | | | |
| County | GARFIELD | State | COLORADO | | | | |
| Location: | API # : 05 - 045 - 21931 - 0000 | | | CHS Notes | | | |
| SHL: 0789' FSL & 0216' FWL SEC: 23 BHL: 0584' FSL & 0710' FWL SEC: 26 | | | | SQUEEZE 9.625" CEM RET | | | |
| Permanent Datum | SEC 26 | TWP 7S | RGE 96W | Elevation | | | |
| Log Measured From | G.L. | | | K.B. 5098' | | | |
| Drilling Measured From | K.B. | | | D.F. 5097' | | | |
| | K.B. | | | G.L. 5071' | | | |
| Date | 08 - 26 - 2013 | | | | | | |
| Run Number | ONE | | | | | | |
| Depth Driller | 14370' | | | | | | |
| Present Depth Driller | NA | | | | | | |
| Depth Logger | 3824' | | | | | | |
| Bottom Logged Interval | 3823' | | | | | | |
| Top Log Interval | 1400' | | | | | | |
| Fluid Level | SURFACE | | | | | | |
| Type Fluid | WATER | | | | | | |
| Max. Recorded Temp. | NA | | | | | | |
| Estimated Cement Top | SEE LOG | | | | | | |
| Equipment Number | 208 | | | | | | |
| Location | GRAND JCT. | | | | | | |
| Recorded By | INGRAM | | | | | | |
| Witnessed By | MR. KYLE KOHL | | | | | | |
| Borehole Record | | | | | | | |
| Run Number | Bit | From | To | Size | Casing Record | | |
| ONE | 30" | SURFACE | 60' | 20" | Weight | From | To |
| TWO | 17.5" | SURFACE | 1555' | 13.375" | | SURFACE | 60' |
| THREE | 12.25" | SURFACE | 9267' | 9.625" | 47# | SURFACE | 1555' |
| | | | | | | SURFACE | 9267' |

<<< 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.

WARRIOR 7.0 SOFTWARE - Comments

NOTE: LOG WAS DEPTH CORRELATED USING BAKER HUGHES SEGMENTED BOND TOOL LOG DATED 7-7-

MAIN PASS 5" = 100'

CSG PSI = STATIC

Calibration Report

Database File: 082613_wpx_sg_702_23_hn1.db
Dataset Pathname: main/pass1.2
Dataset Creation: Mon Aug 26 15:15:42 2013 by Calc SCH 120430

Gamma Ray Calibration Report

| | | |
|---------------------|--------------------------|----------|
| Serial Number: | 10007260 | |
| Tool Model: | 020 | |
| Performed: | Sun Jun 13 13:33:21 1993 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 1.0000 | GAPI/cps |

Segmented Cement Bond Log Calibration Report

| | | |
|------------------------------|----------|----|
| Serial Number: | 10009897 | |
| Tool Model: | 004 | |
| Calibration Casing Diameter: | 9.625 | in |
| Calibration Depth: | 542.471 | ft |

Master Calibration, performed Mon Aug 26 15:14:17 2013:

| | Raw (v) | | Calibrated (mv) | | Results | |
|-----|---------|-------|-----------------|---------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3FT | 0.000 | 0.590 | 0.000 | 51.280 | 86.922 | -0.004 |
| 5FT | 0.000 | 0.665 | 0.000 | 51.280 | 77.107 | -0.004 |
| S1 | 0.000 | 0.571 | 0.000 | 100.000 | 175.011 | -0.007 |
| S2 | 0.000 | 0.608 | 0.000 | 100.000 | 164.399 | -0.007 |
| S3 | 0.000 | 0.629 | 0.000 | 100.000 | 159.046 | -0.007 |
| S4 | 0.000 | 0.613 | 0.000 | 100.000 | 163.018 | -0.008 |
| S5 | 0.000 | 0.668 | 0.000 | 100.000 | 149.799 | -0.008 |
| S6 | 0.000 | 0.694 | 0.000 | 100.000 | 144.105 | -0.007 |
| S7 | 0.000 | 0.645 | 0.000 | 100.000 | 155.031 | -0.007 |
| S8 | 0.000 | 0.594 | 0.000 | 100.000 | 168.427 | -0.007 |

Calibration Report


| | |
|----------------|------------------------|
| Serial Number: | 10009897 |
| Tool Model: | 004 |
| Performed: | |
| Low: | Reference (degF) 0.000 |
| High: | Reading () 1.000 |
| | Gain = 1.000 |
| | Offset= 0.000 |

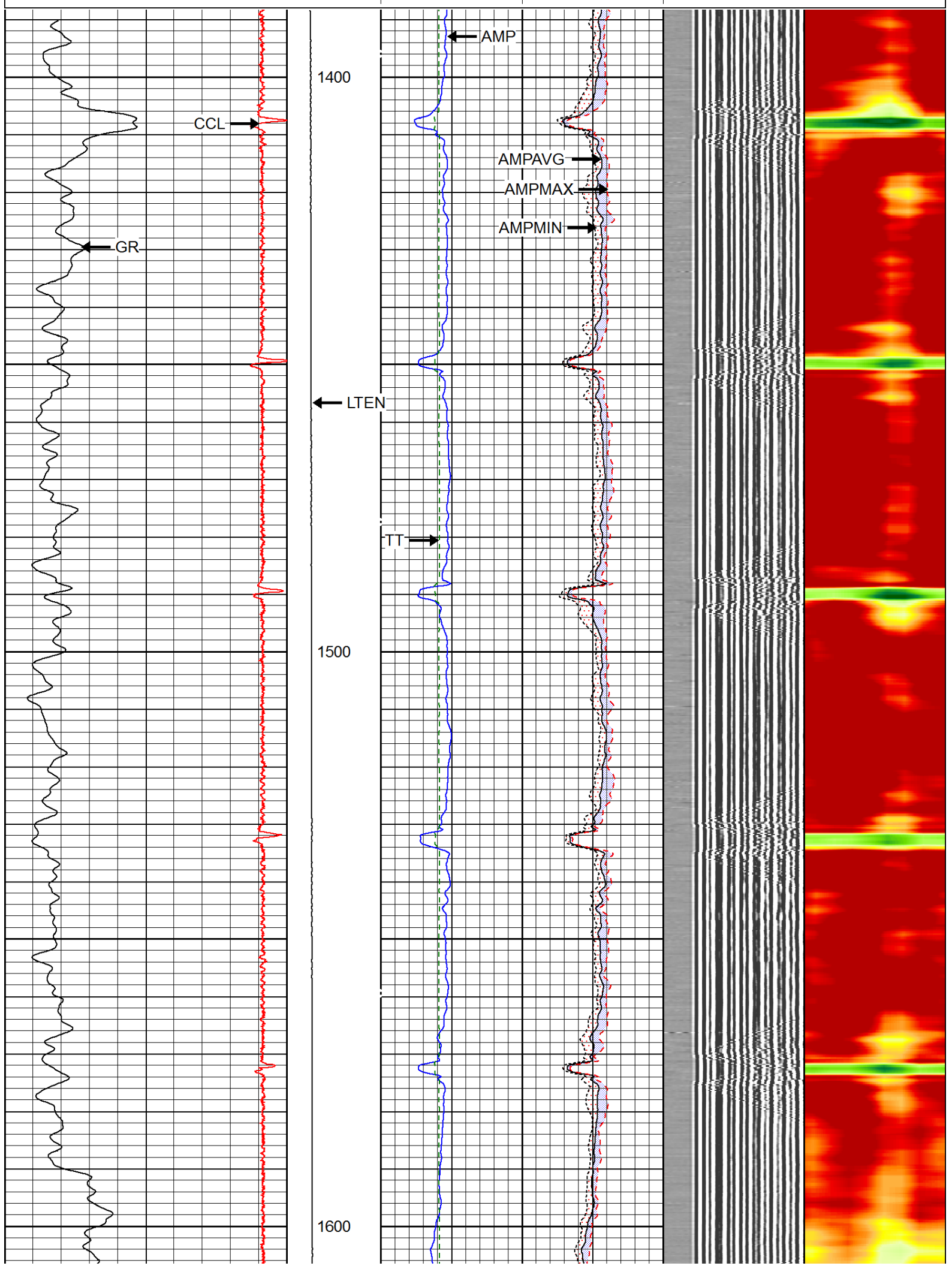


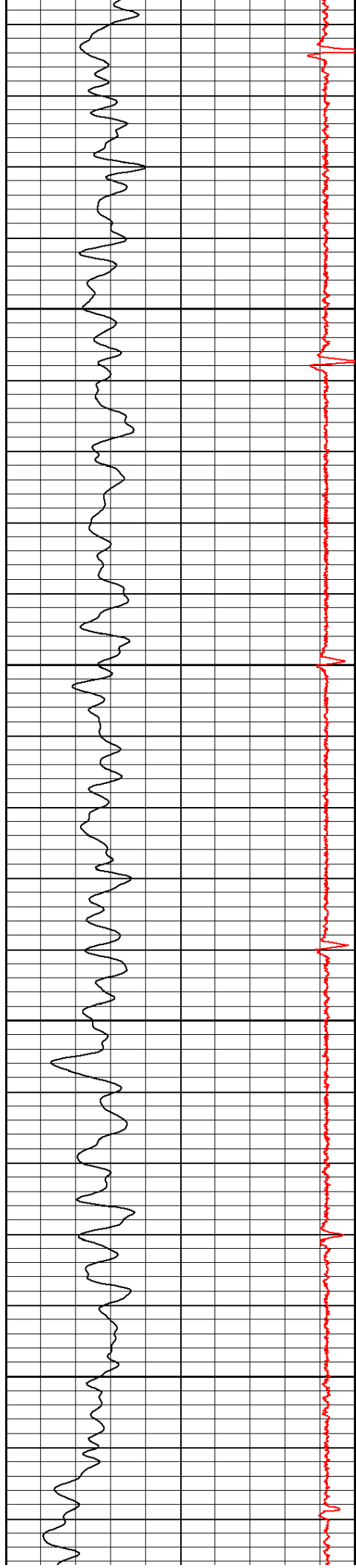
MAIN PASS

| | |
|----------------------|---|
| Database File: | 082613_wpx_sg_702_23_hn1.db |
| Dataset Pathname: | main/pass1.2 |
| Presentation Format: | rmws_rbt |
| Dataset Creation: | Mon Aug 26 15:15:42 2013 by Calc SCH 120430 |
| Charted by: | Depth in Feet scaled 1:240 |

| | | | | | | | | | | | | |
|-------|-----------|-------|------|----------|--------------|---------------|------------|------------|-----|------|---|--------------|
| 15200 | CCL | 18600 | LTEN | 0 | AMP (mV) 100 | 0 | AMPAVG 150 | 200 | VDL | 1200 | 1 | SECTOR MAP 8 |
| 0 | GR (GAPI) | 150 | 0 | (lb)2000 | 0 | AMPx5 (mV) 20 | 0 | AMPMAX 150 | | | 0 | 80 |
| | | | | | 380 | TT (usec) 180 | 0 | AMPMIN 150 | | | | |

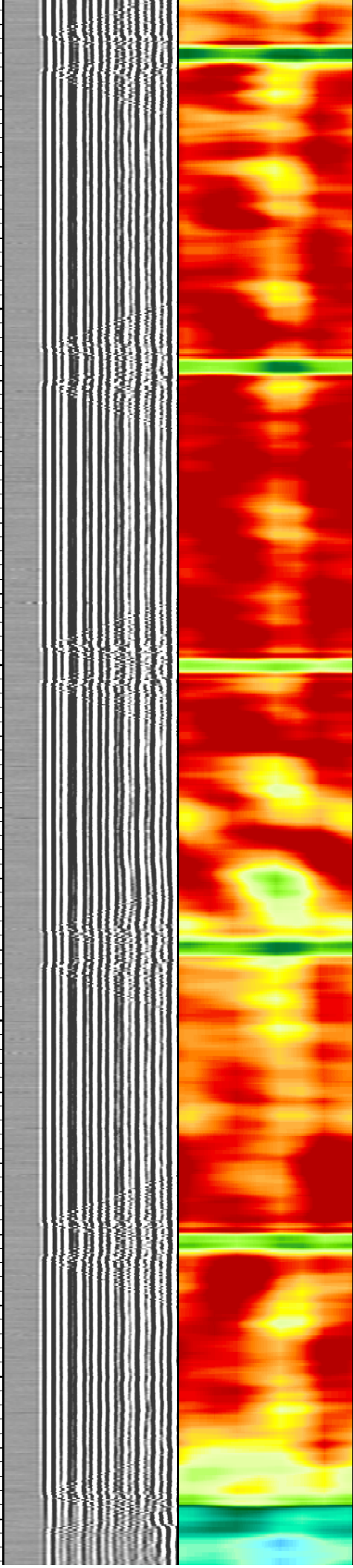
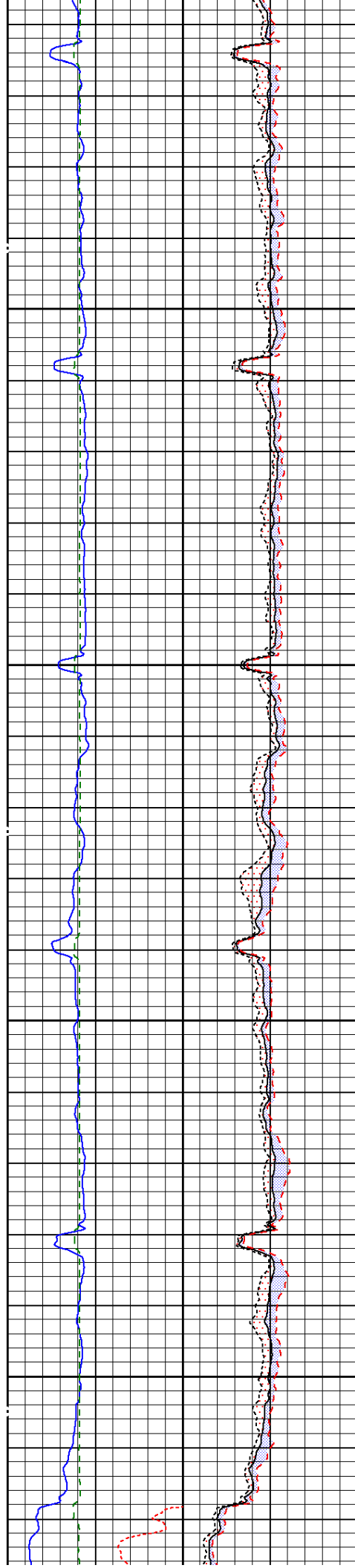
A horizontal color scale bar ranging from blue on the left to red on the right, with a yellow-green center. It is used for depth or amplitude scaling in the log.

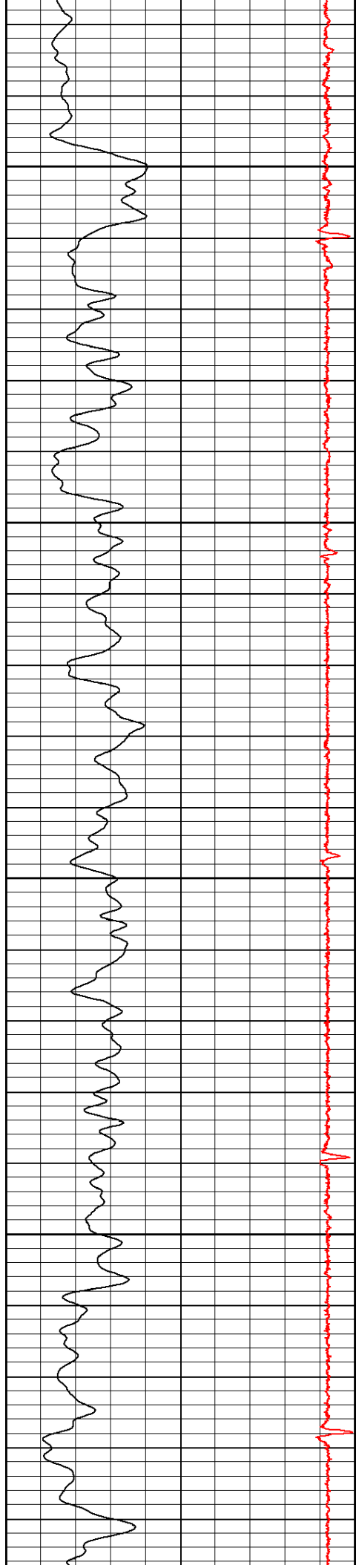




1700

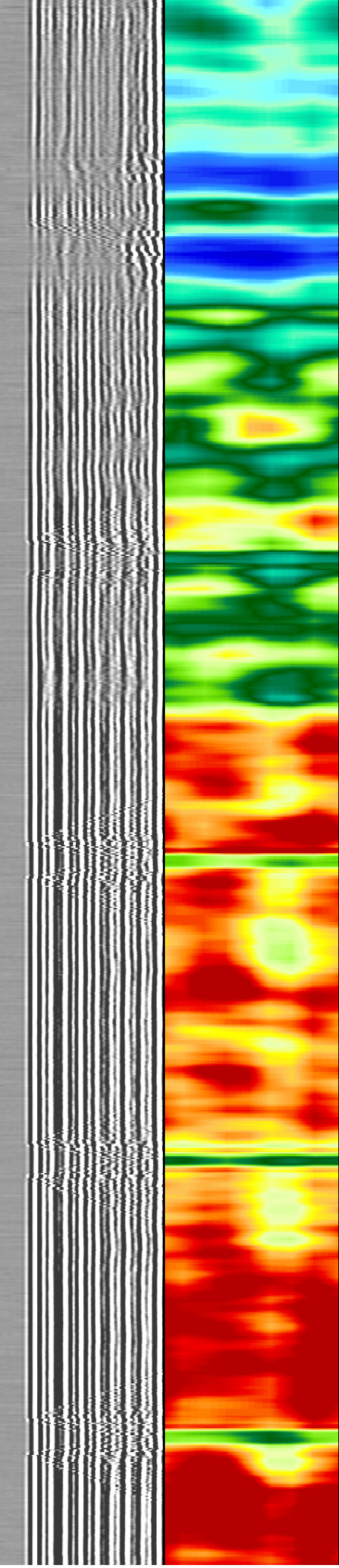
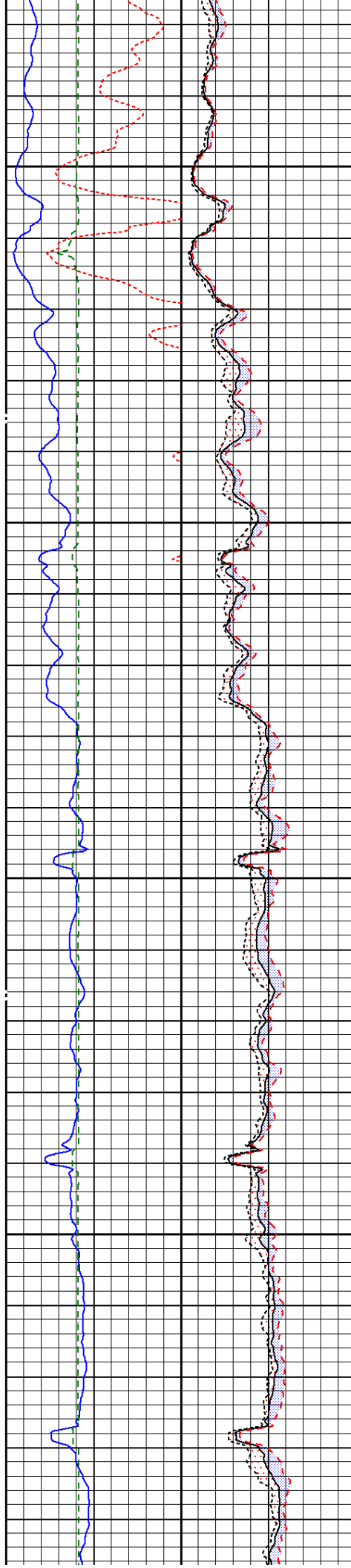
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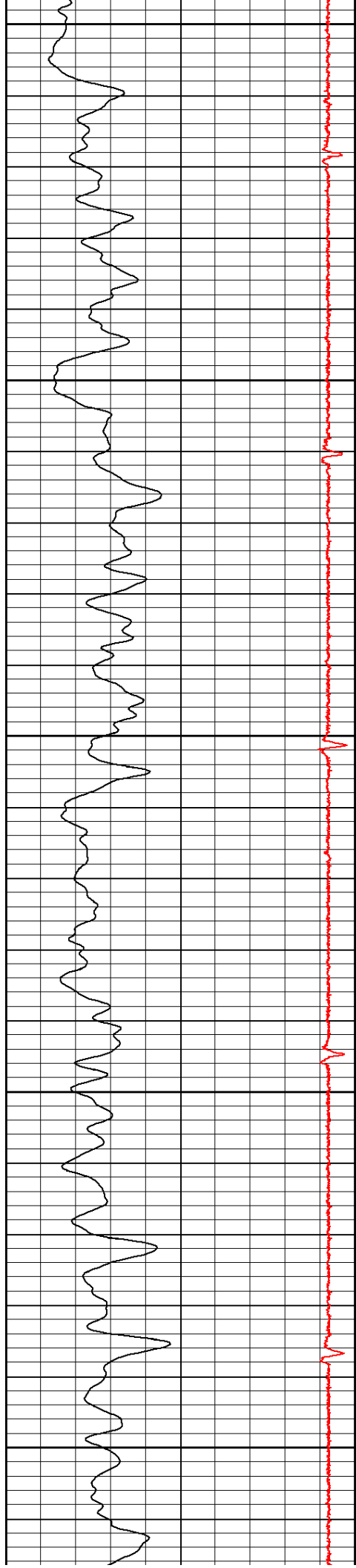




1900

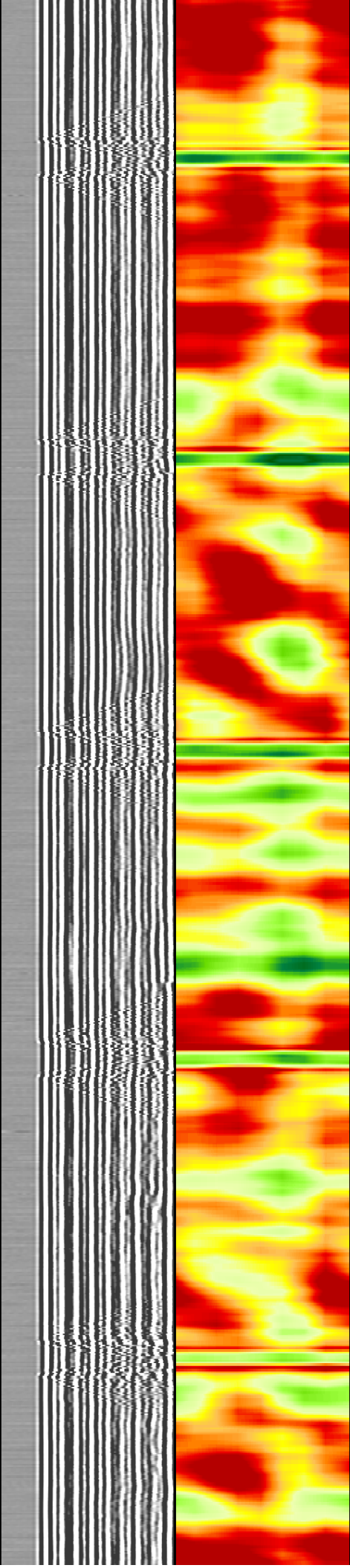
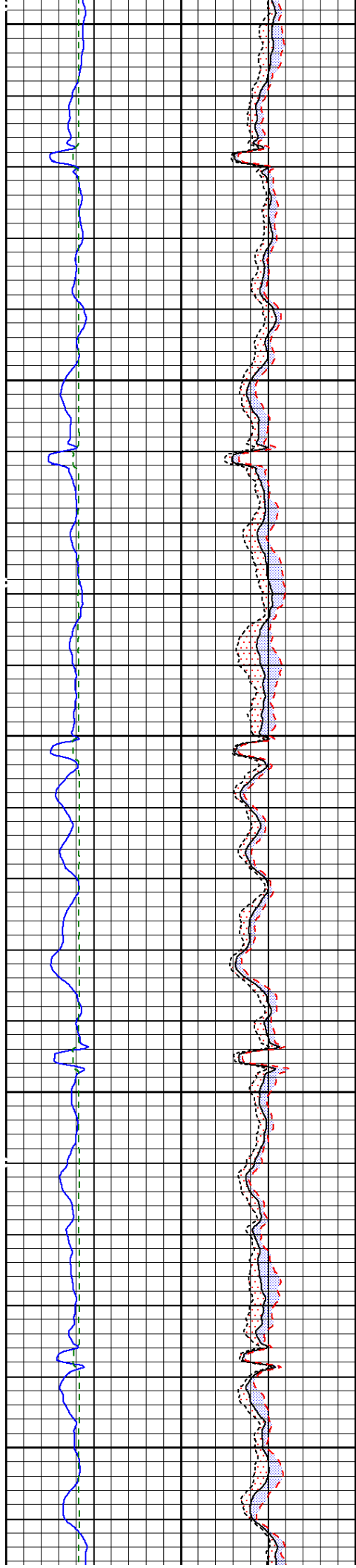
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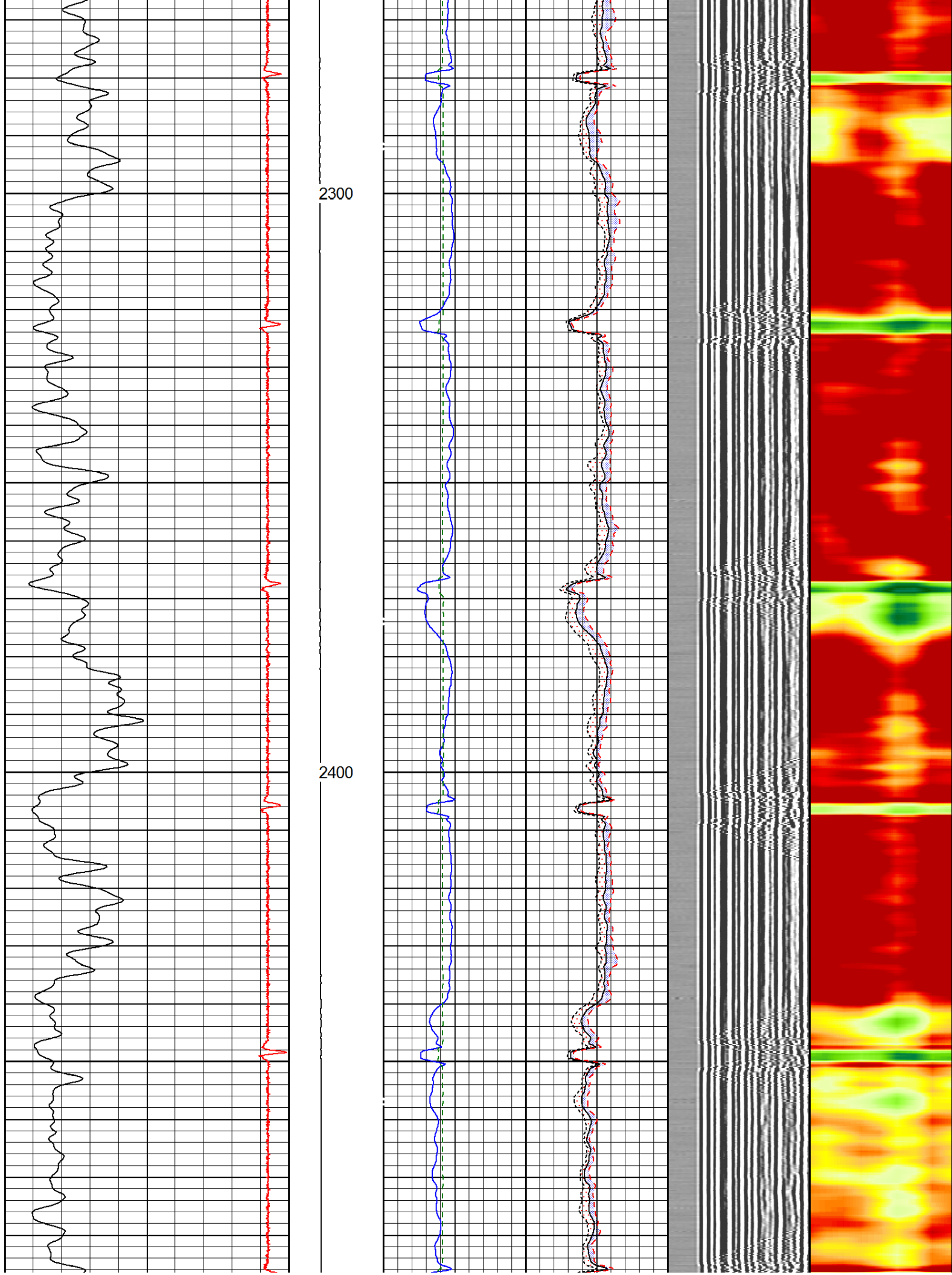


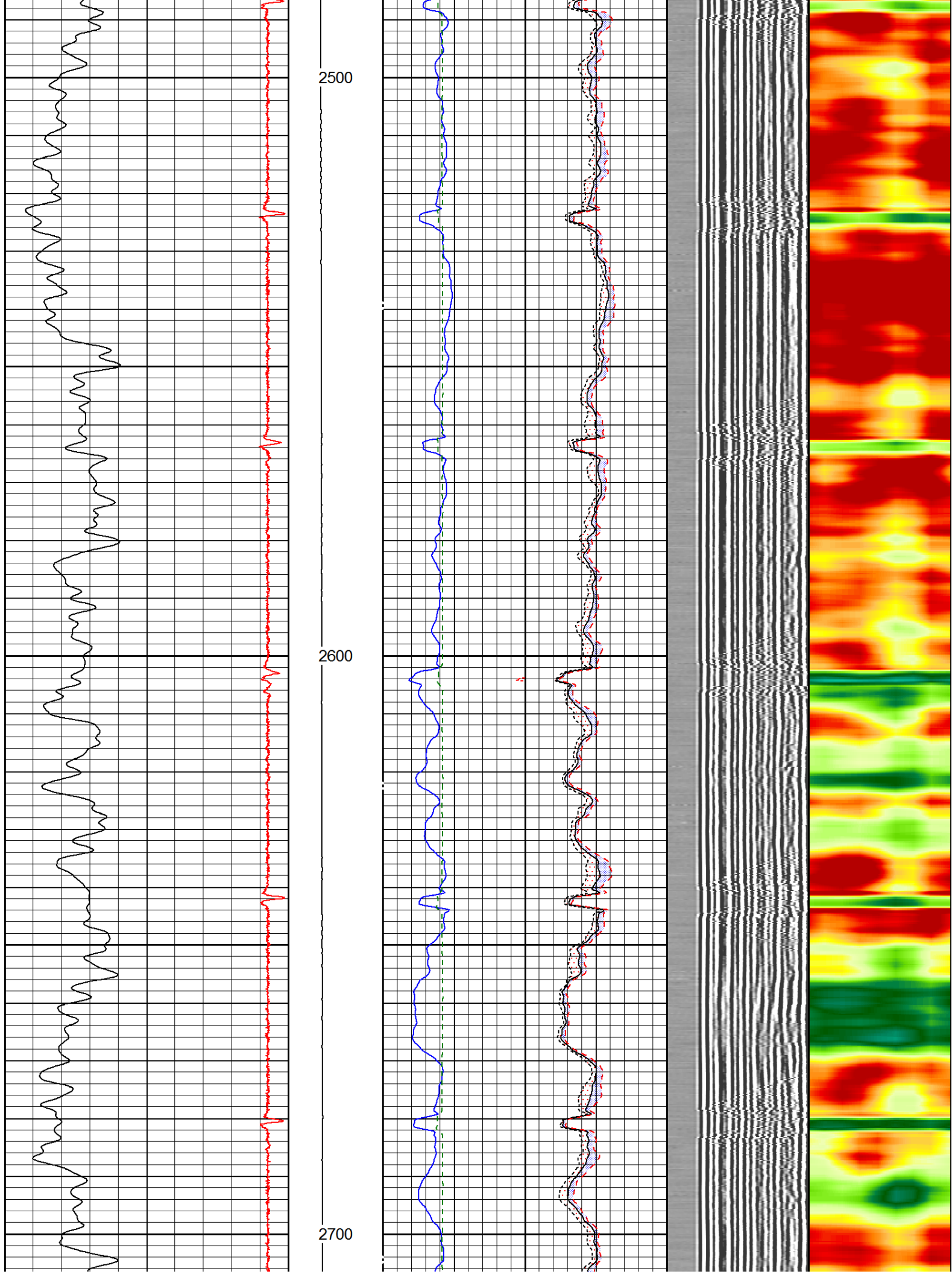


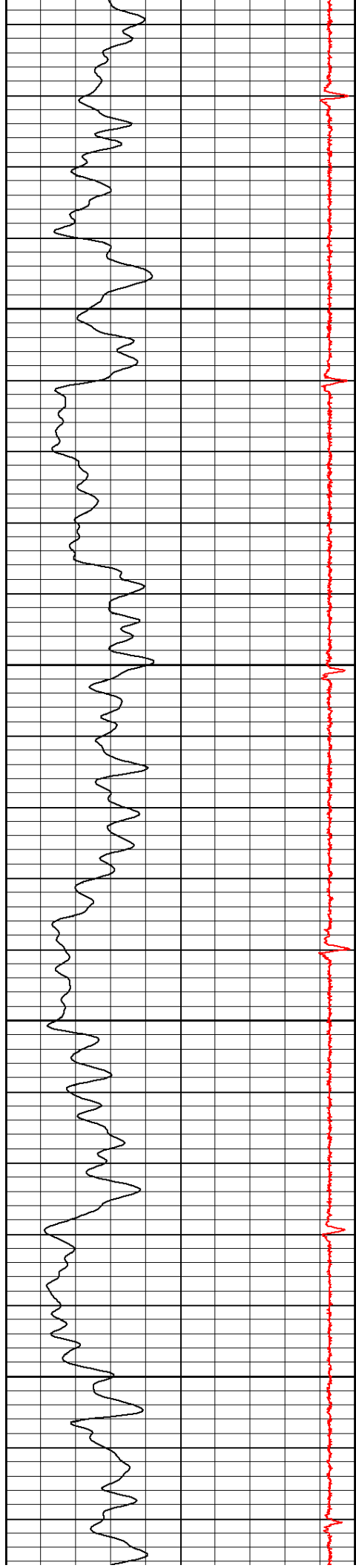
2100

2200



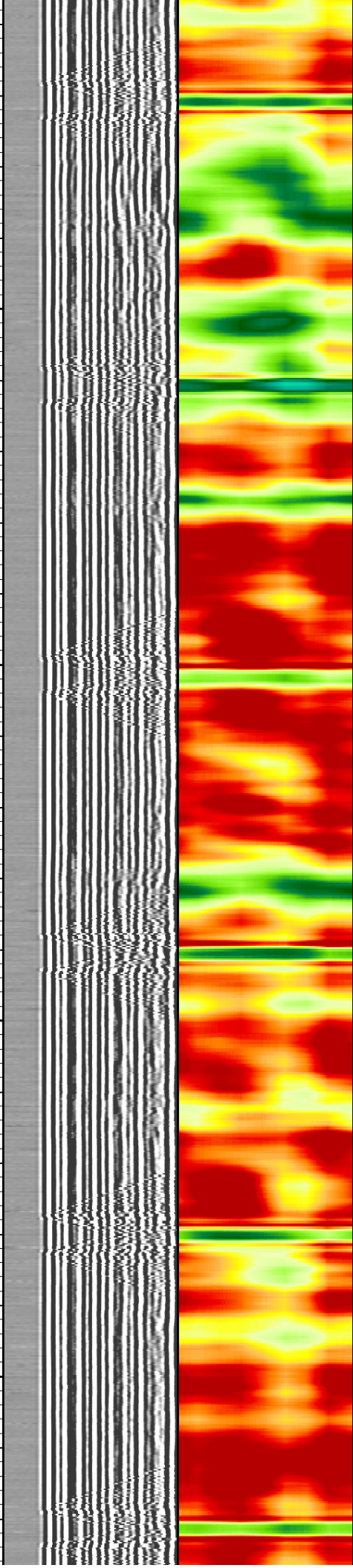
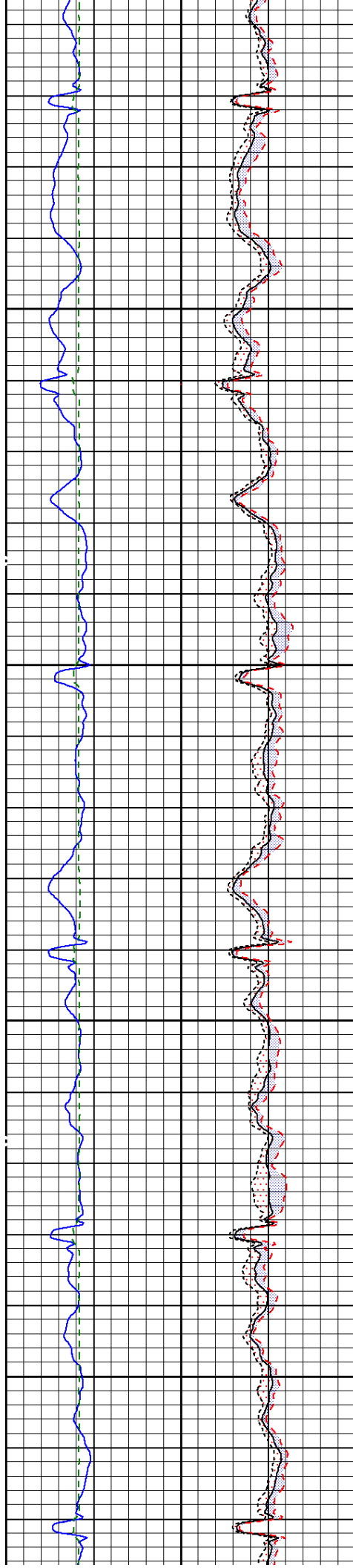


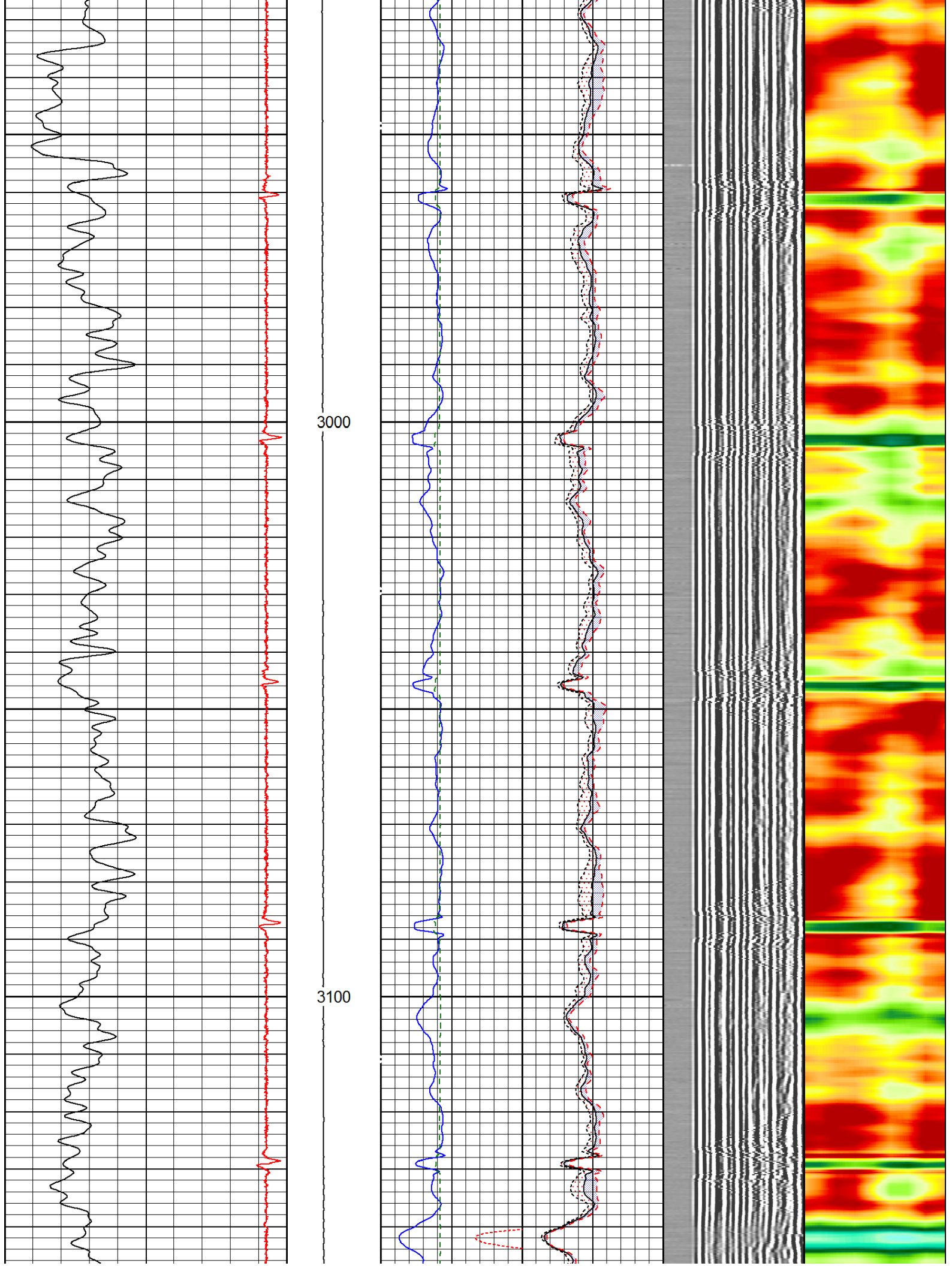


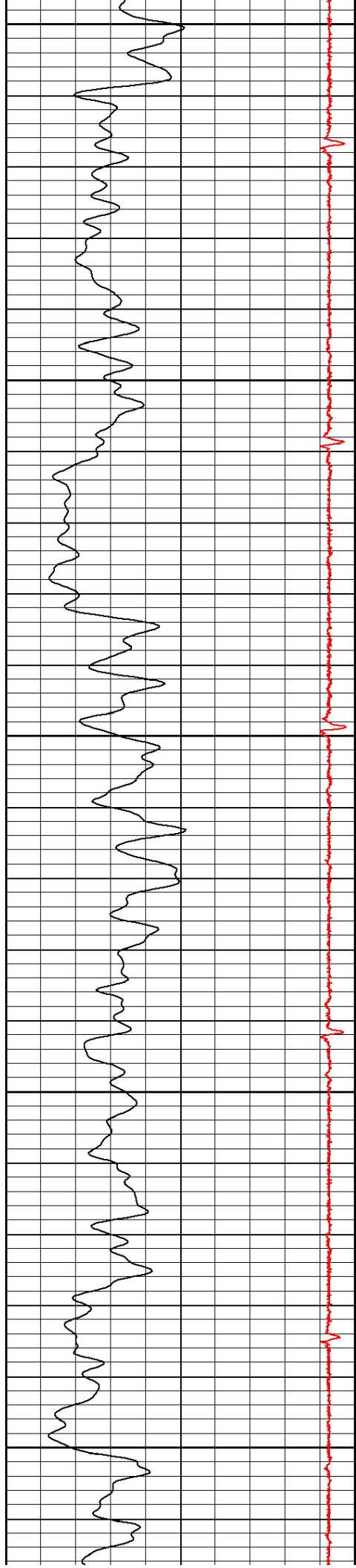


2800

2900

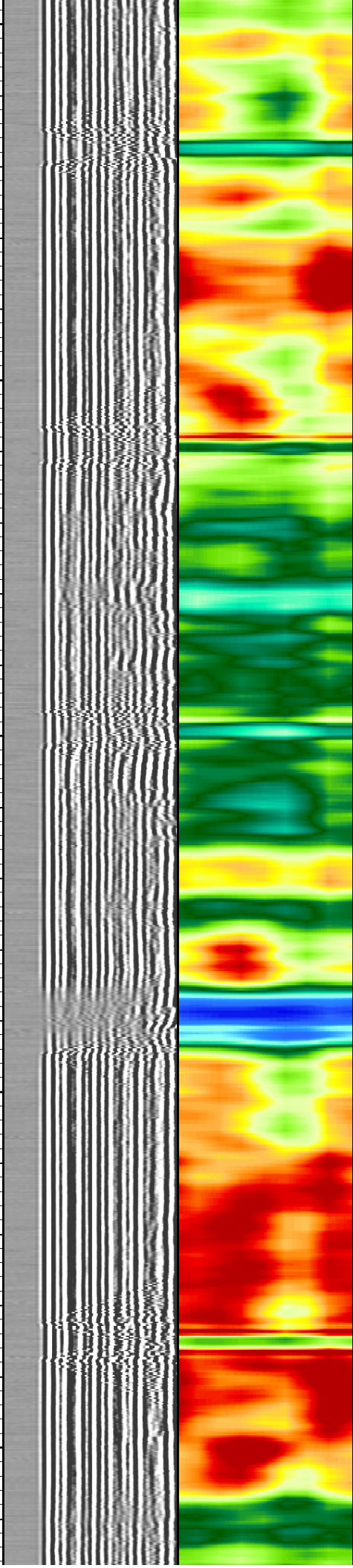
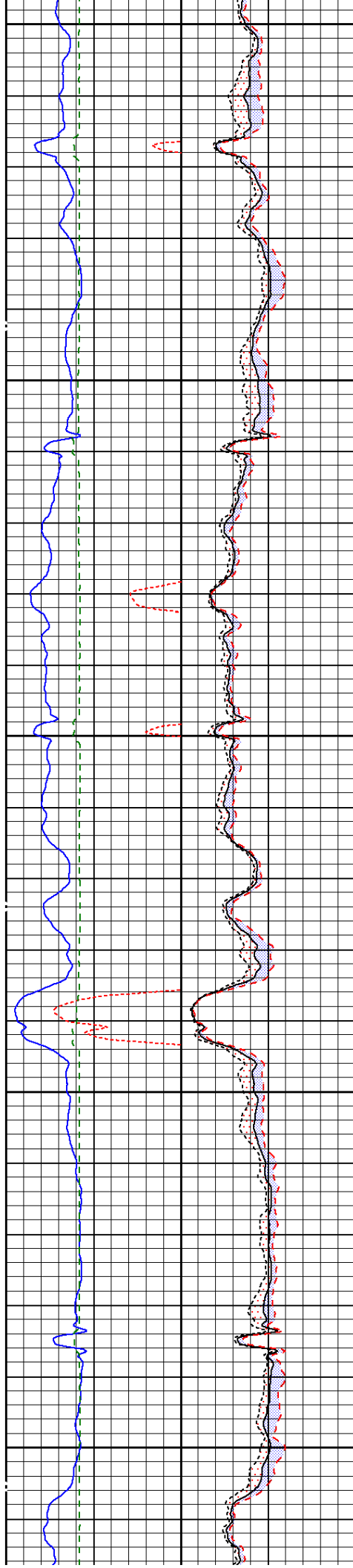


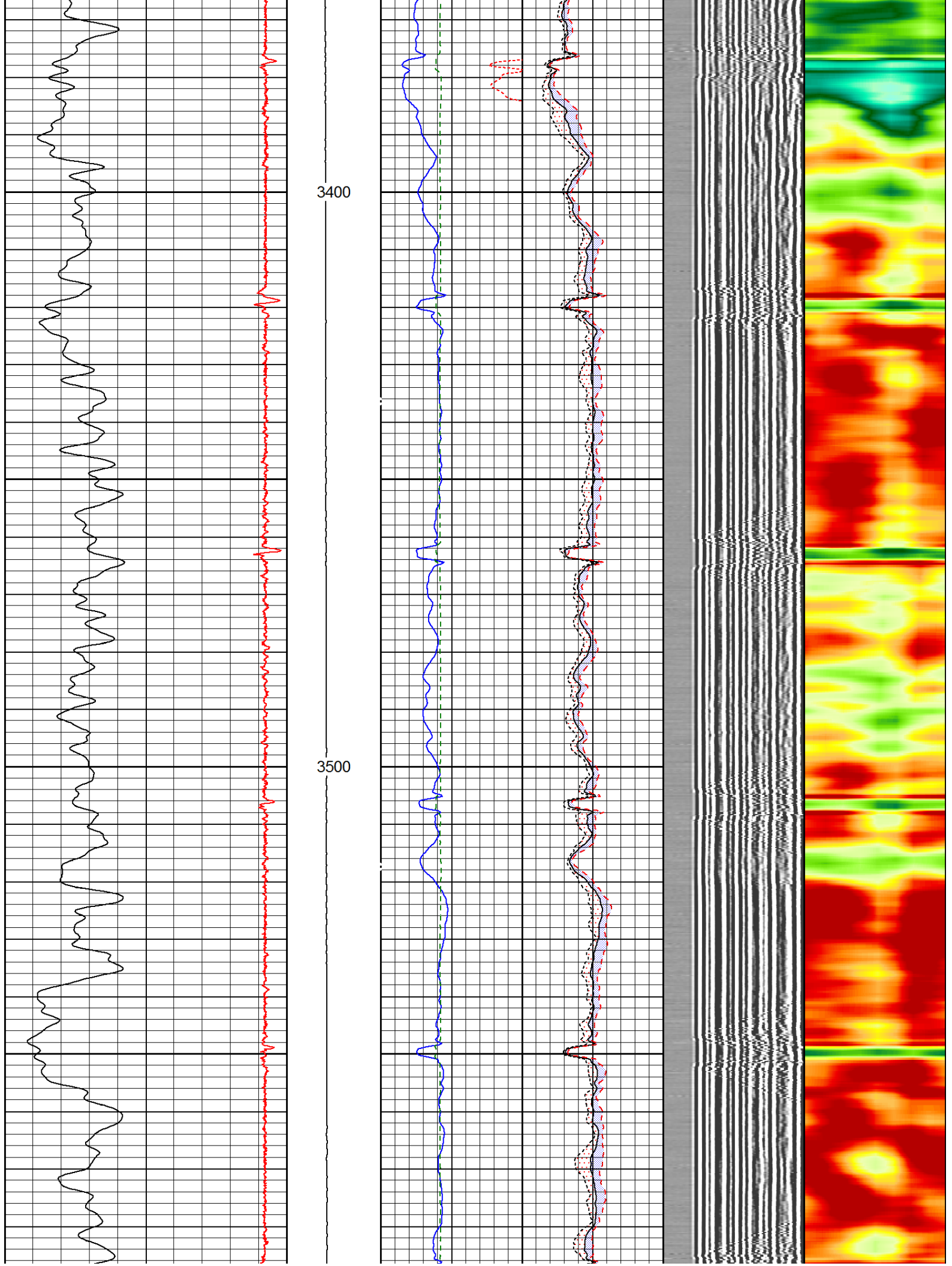


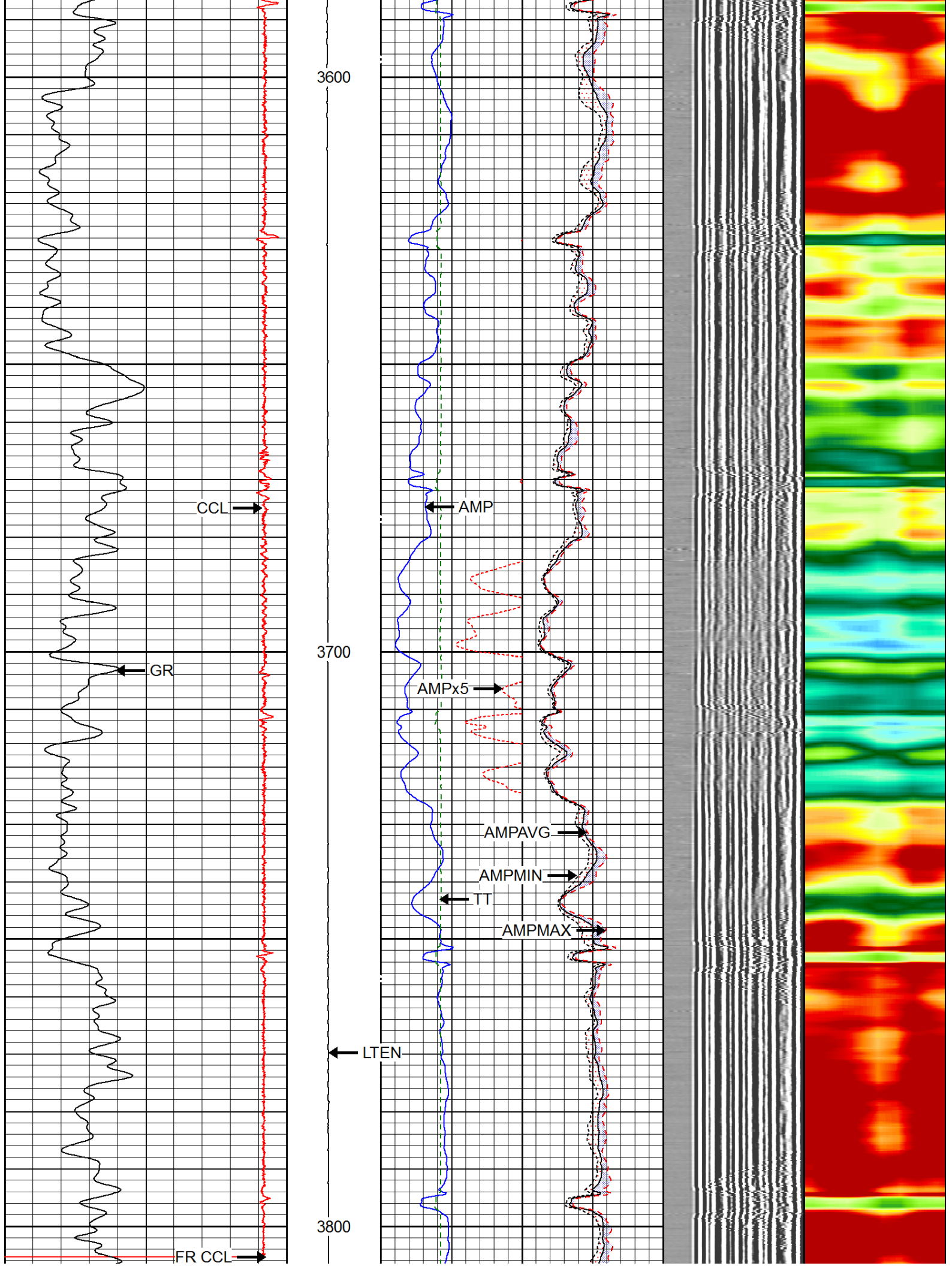


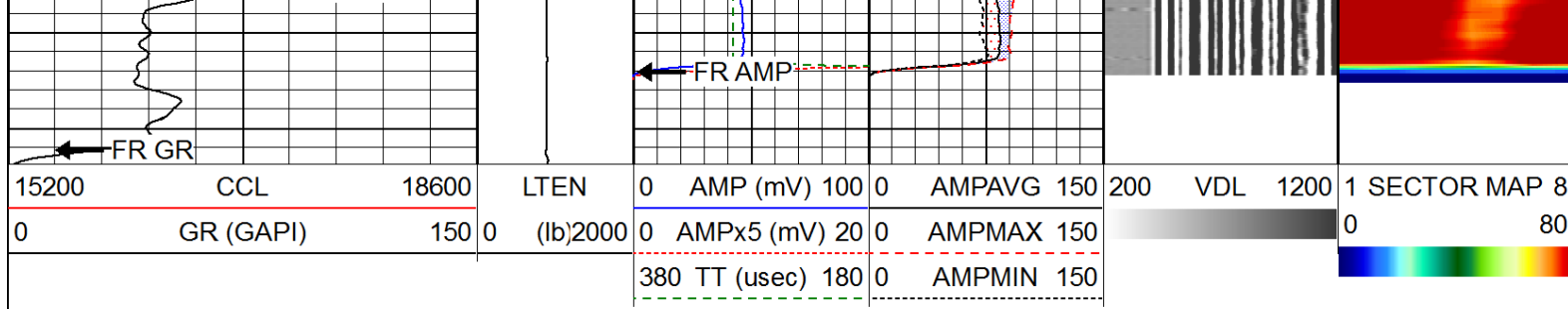
3200

3300



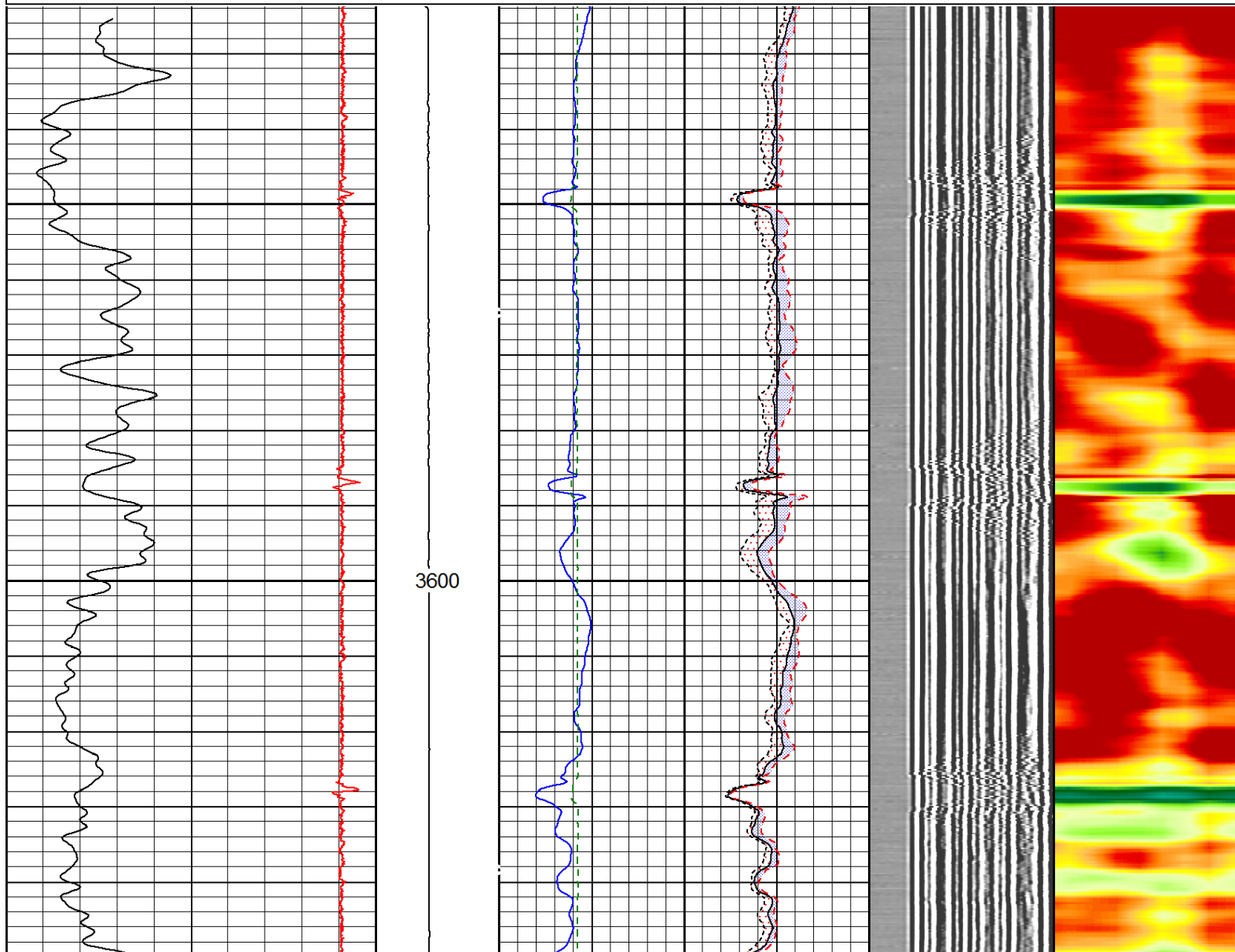
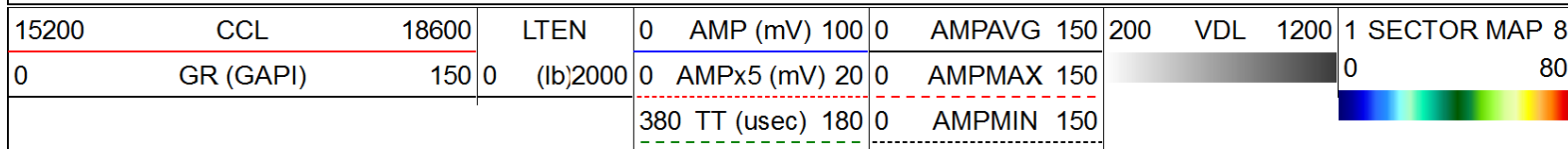


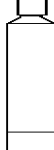
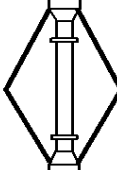
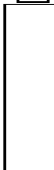





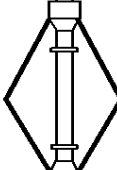









REPEAT PASS

Database File: 082613_wpx_sg_702_23_hn1.db
 Dataset Pathname: repeat/pass1.1
 Presentation Format: rmws_rbt
 Dataset Creation: Mon Aug 26 15:19:18 2013 by Calc SCH 120430
 Charted by: Depth in Feet scaled 1:240



| | | | | | | | | | |
|---|-------|---|---|--|------|------|-------|--|--|
| Crossover Ultrawire Toolbus To Ultralink | | | | | | | | | |
| CCL | 18.13 | |  | CCL-028 (1037) CCL UW 3 1/8" SONDEX | 1.61 | 3.13 | 36.00 | | |
| | | |  | PRC-022 (215770) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX) | 3.00 | 2.38 | 21.40 | | |
| | | |  | | | | | | |
| WVF3FT | 10.28 |  |  | | | | | | |
| WVFS1 | 10.28 |  | | | | | | | |
| WVFS2 | 10.28 |  | | | | | | | |
| WVFS3 | 10.28 | | | | | | | | |
| WVFS4 | 10.28 | | | | | | | | |
| WVFS5 | 10.28 | | | | | | | | |
| WVFS6 | 10.28 | | | | | | | | |
| WVFS7 | 10.28 | | | | | | | | |
| WVFS8 | 10.28 | | | | | | | | |
| CBLTEMP | 10.28 | | | | | | | | |
| CBLROT | 10.28 | | | | | | | | |
| WVF5FT | 9.28 |  | | | | | | | |
| | | |  | PRC-022 (215771) (6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX) | 3.00 | 2.38 | 21.40 | | |
| GR | 0.72 |  |  | PGR-020 (10007260) Production Gamma Ray | 1.93 | 1.69 | 9.50 | | |
| TSTAMP | 0.00 |  | | | | | | | |
| ITEMPX | 0.00 |  | | BUL-006 (212965) Bullnose Terminator | 0.22 | 1.69 | 1.20 | | |
| HVOLTX | 0.00 |  | | | | | | | |
| Dataset: 082613_wpx_sg_702_23_hn1.db: field/well/main/pass1.2 | | | | | | | | | |
| Total Length: 21.85 ft | | | | | | | | | |
| Total Weight: 238.00 lb | | | | | | | | | |
| O.D. 3.13 in | | | | | | | | | |



County
State

GARFIELD
COLORADO