

Company: Crestone Peak Resources Operating LLC

Well: Sam 3J-25H-M166

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner  
Cement Evaluation

Cement Evaluation

|                                   |                        |
|-----------------------------------|------------------------|
| Location:                         |                        |
| NWSW Sec. 25, T1N, R66W           | Elev.: K.B. 5104.00 ft |
| SHL: 1323 FSL & 310' FWL          | G.L. 5081.00 ft        |
| Lat/Long: 40.018648 / -104.733855 | D.F. 5104.00 ft        |
| Permanent Datum:                  | Ground Level           |
| Log Measured From:                | Kelly Bushing          |
| Drilling Measured From:           | Kelly Bushing          |
| API Serial No.                    | Section:               |
| 05-123-46129                      | 25                     |
|                                   | Township:              |
|                                   | 1N                     |
|                                   | Range:                 |
|                                   | 66W                    |

|              |             |             |
|--------------|-------------|-------------|
| Logging Date | 18-Oct-2018 | 18-Oct-2018 |
|--------------|-------------|-------------|

|            |    |    |
|------------|----|----|
| Run Number | 1A | 1B |
|------------|----|----|

|               |             |             |
|---------------|-------------|-------------|
| Depth Driller | 11890.00 ft | 11890.00 ft |
|---------------|-------------|-------------|

|                    |             |             |
|--------------------|-------------|-------------|
| Schlumberger Depth | 11890.00 ft | 11890.00 ft |
|--------------------|-------------|-------------|

|                     |            |            |
|---------------------|------------|------------|
| Bottom Log Interval | 6605.00 ft | 6605.00 ft |
|---------------------|------------|------------|

|                  |          |          |
|------------------|----------|----------|
| Top Log Interval | 50.00 ft | 50.00 ft |
|------------------|----------|----------|

|                   |             |             |
|-------------------|-------------|-------------|
| Casing Fluid Type | Fresh Water | Fresh Water |
|-------------------|-------------|-------------|

|          |  |  |
|----------|--|--|
| Salinity |  |  |
|----------|--|--|

|         |             |             |
|---------|-------------|-------------|
| Density | 8.4 lbm/gal | 8.4 lbm/gal |
|---------|-------------|-------------|

|             |         |         |
|-------------|---------|---------|
| Fluid Level | 8.00 ft | 8.00 ft |
|-------------|---------|---------|

|                          |  |  |
|--------------------------|--|--|
| BIT/CASING/TUBING STRING |  |  |
|--------------------------|--|--|

|          |         |         |
|----------|---------|---------|
| Bit Size | 8.50 in | 8.50 in |
|----------|---------|---------|

|      |            |            |
|------|------------|------------|
| From | 2426.00 ft | 2426.00 ft |
|------|------------|------------|

|    |             |             |
|----|-------------|-------------|
| To | 11890.00 ft | 11890.00 ft |
|----|-------------|-------------|

|                    |        |        |
|--------------------|--------|--------|
| Casing/Tubing Size | 5.5 in | 5.5 in |
|--------------------|--------|--------|

|        |           |           |
|--------|-----------|-----------|
| Weight | 20 lbm/ft | 20 lbm/ft |
|--------|-----------|-----------|

|       |     |     |
|-------|-----|-----|
| Grade | J55 | J55 |
|-------|-----|-----|

|      |         |         |
|------|---------|---------|
| From | 0.00 ft | 0.00 ft |
|------|---------|---------|

|    |             |             |
|----|-------------|-------------|
| To | 11878.00 ft | 11878.00 ft |
|----|-------------|-------------|

|                           |          |          |
|---------------------------|----------|----------|
| Max Recorded Temperatures | 175 degF | 175 degF |
|---------------------------|----------|----------|

|                  |             |          |             |          |
|------------------|-------------|----------|-------------|----------|
| Logger on Bottom | 18-Oct-2018 | 11:00:00 | 18-Oct-2018 | 12:00:00 |
|------------------|-------------|----------|-------------|----------|

|             |           |      |      |                 |      |                 |
|-------------|-----------|------|------|-----------------|------|-----------------|
| Unit Number | Location: | Time | 9108 | Fort Morgan, CO | 9108 | Fort Morgan, CO |
|-------------|-----------|------|------|-----------------|------|-----------------|

|             |               |               |
|-------------|---------------|---------------|
| Recorded By | Richard Woods | Richard Woods |
|-------------|---------------|---------------|

|              |                |                |
|--------------|----------------|----------------|
| Witnessed By | Keith Kershnik | Keith Kershnik |
|--------------|----------------|----------------|

Disclaimer

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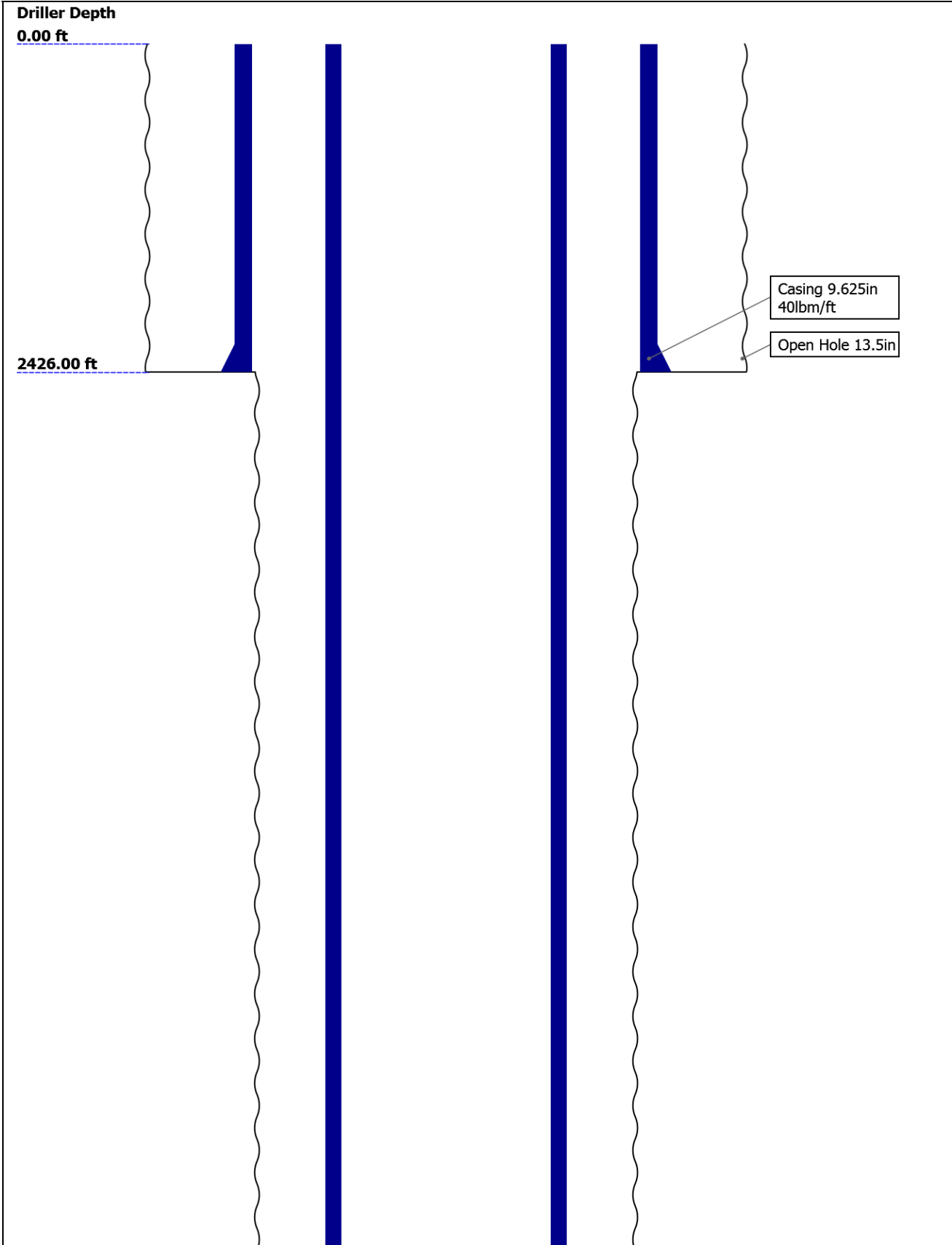
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Well Sketch



**11878.00 ft**

**11890.00 ft**

Casing 5.5in  
20lbm/ft

Open Hole 8.5in

## Borehole Size/Casing/Tubing Record

|                       |       |       |  |  |  |  |
|-----------------------|-------|-------|--|--|--|--|
| Bit                   |       |       |  |  |  |  |
| Bit Size ( in )       | 13.5  | 8.5   |  |  |  |  |
| Top Driller ( ft )    | 0     | 2426  |  |  |  |  |
| Top Logger ( ft )     | 0     | 2426  |  |  |  |  |
| Bottom Driller ( ft ) | 2426  | 11890 |  |  |  |  |
| Bottom Logger ( ft )  | 2426  | 11890 |  |  |  |  |
| Casing                |       |       |  |  |  |  |
| Size ( in )           | 9.625 | 5.5   |  |  |  |  |
| Weight ( lbm/ft )     | 40    | 20    |  |  |  |  |
| Inner Diameter ( in ) | 8.835 | 4.778 |  |  |  |  |
| Grade                 | J55   | J55   |  |  |  |  |
| Top Driller ( ft )    | 0     | 0     |  |  |  |  |
| Top Logger ( ft )     | 0     | 0     |  |  |  |  |
| Bottom Driller ( ft ) | 2426  | 11878 |  |  |  |  |
| Bottom Logger ( ft )  | 2426  | 11878 |  |  |  |  |

## Remarks and Equipment Summary

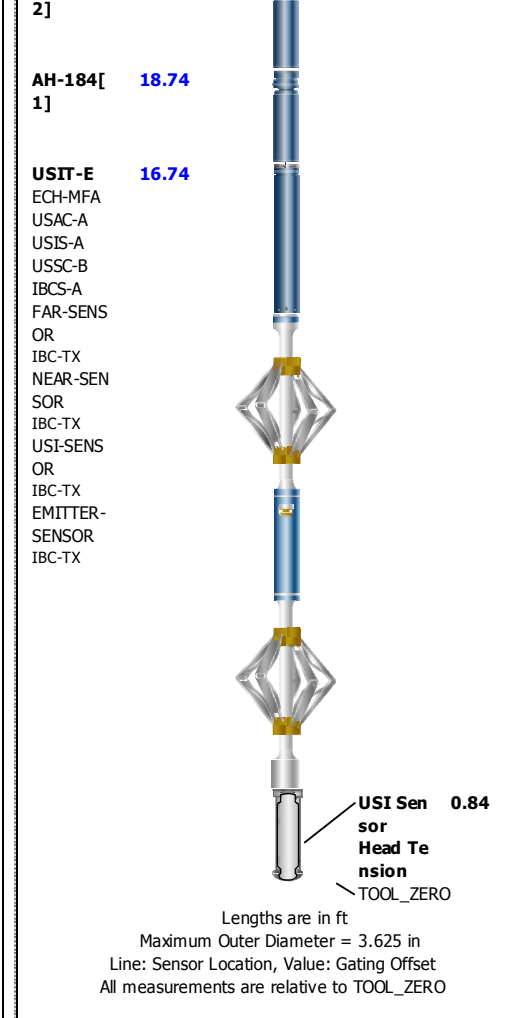
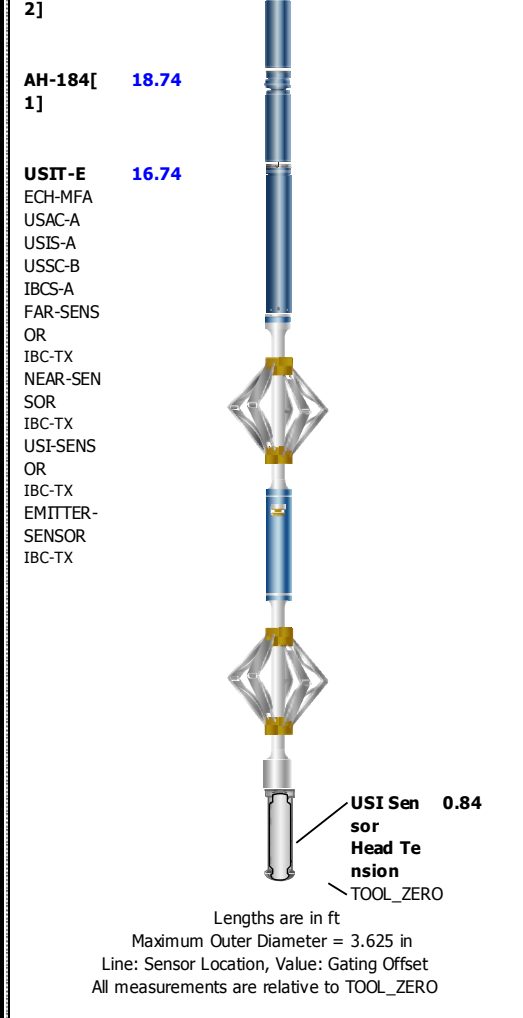
|   |             |
|---|-------------|
| Thank you for choosing Schlumberger!  |             |
| Tool string run as per tool sketch and client logging program.                  |             |
| 5" Gemcos and in-line centralizers with small hole kit used for centralization. |             |
| All passes run under 0 PSI.   |             |
| Lead: 12.5 ppg<br>Tail: 13.5 ppg<br>Spacer: 12 ppg                              |             |
| 1A: Remarks   | 1B: Remarks |

### 1A: Toolstring

| Equip name | Length | MP name  | Offset |
|------------|--------|----------|--------|
| LEH-QT     | 30.73  |          |        |
| LEH-QT     |        |          |        |
| EDTC-B     | 27.24  |          |        |
| EDTH-B     |        |          |        |
| EDTG-A     |        |          |        |
| EDTC-B     |        |          |        |
|            |        | CTEM     | 23.74  |
|            |        | ACCZ     | 0.00   |
|            |        | HV       | 0.00   |
|            |        | Gamma    | 21.87  |
|            |        | Ray      |        |
|            |        | TelStatu | 20.74  |
|            |        | s        |        |
| AH-184[    | 20.74  |          |        |

### 1B: Toolstring

| Equip name | Length | MP name  | Offset |
|------------|--------|----------|--------|
| LEH-QT     | 30.73  |          |        |
| LEH-QT     |        |          |        |
| EDTC-B     | 27.24  |          |        |
| EDTH-B     |        |          |        |
| EDTG-A     |        |          |        |
| EDTC-B     |        |          |        |
|            |        | CTEM     | 23.74  |
|            |        | ACCZ     | 0.00   |
|            |        | HV       | 0.00   |
|            |        | Gamma    | 21.87  |
|            |        | Ray      |        |
|            |        | TelStatu | 20.74  |
|            |        | s        |        |
| AH-184[    | 20.74  |          |        |

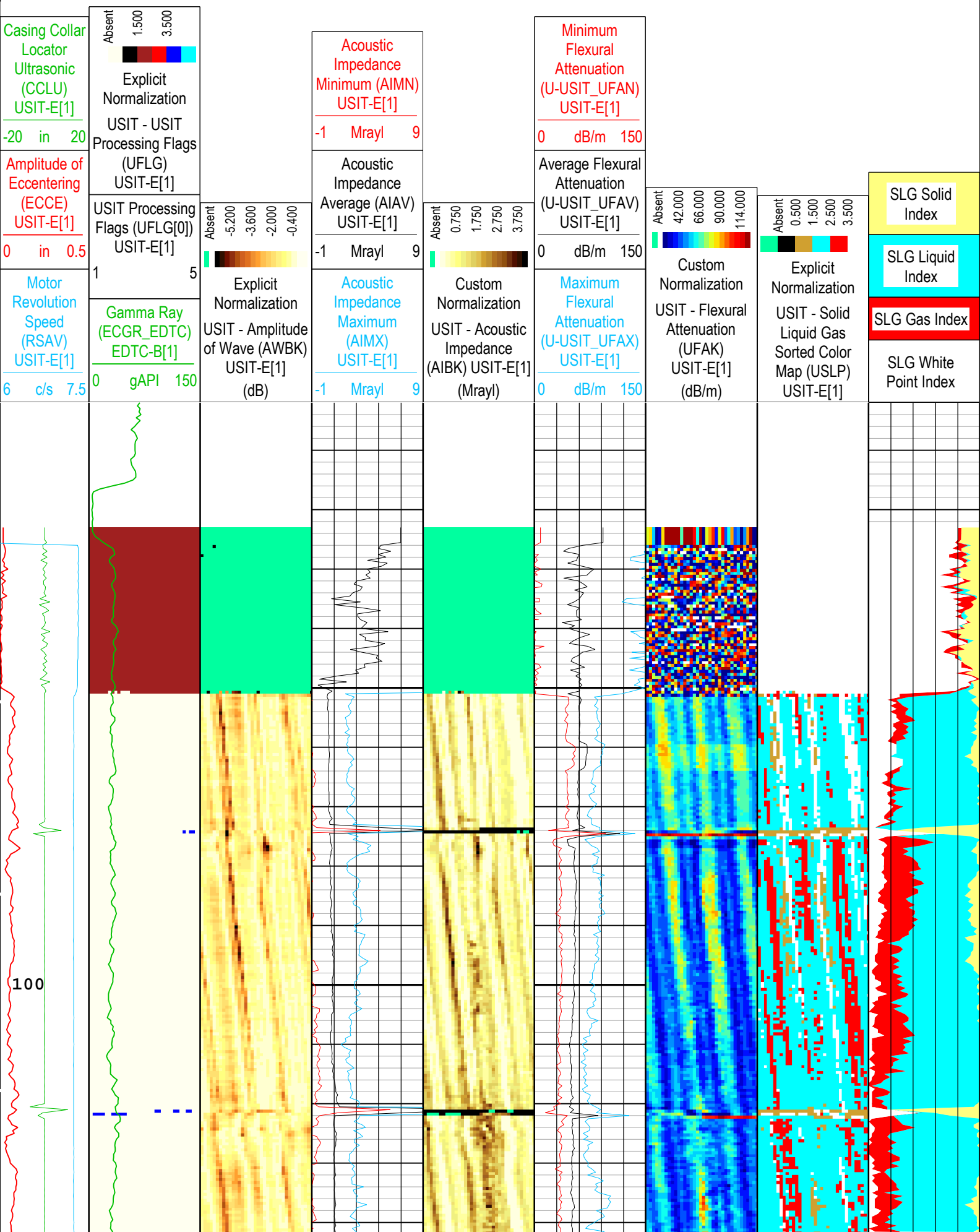


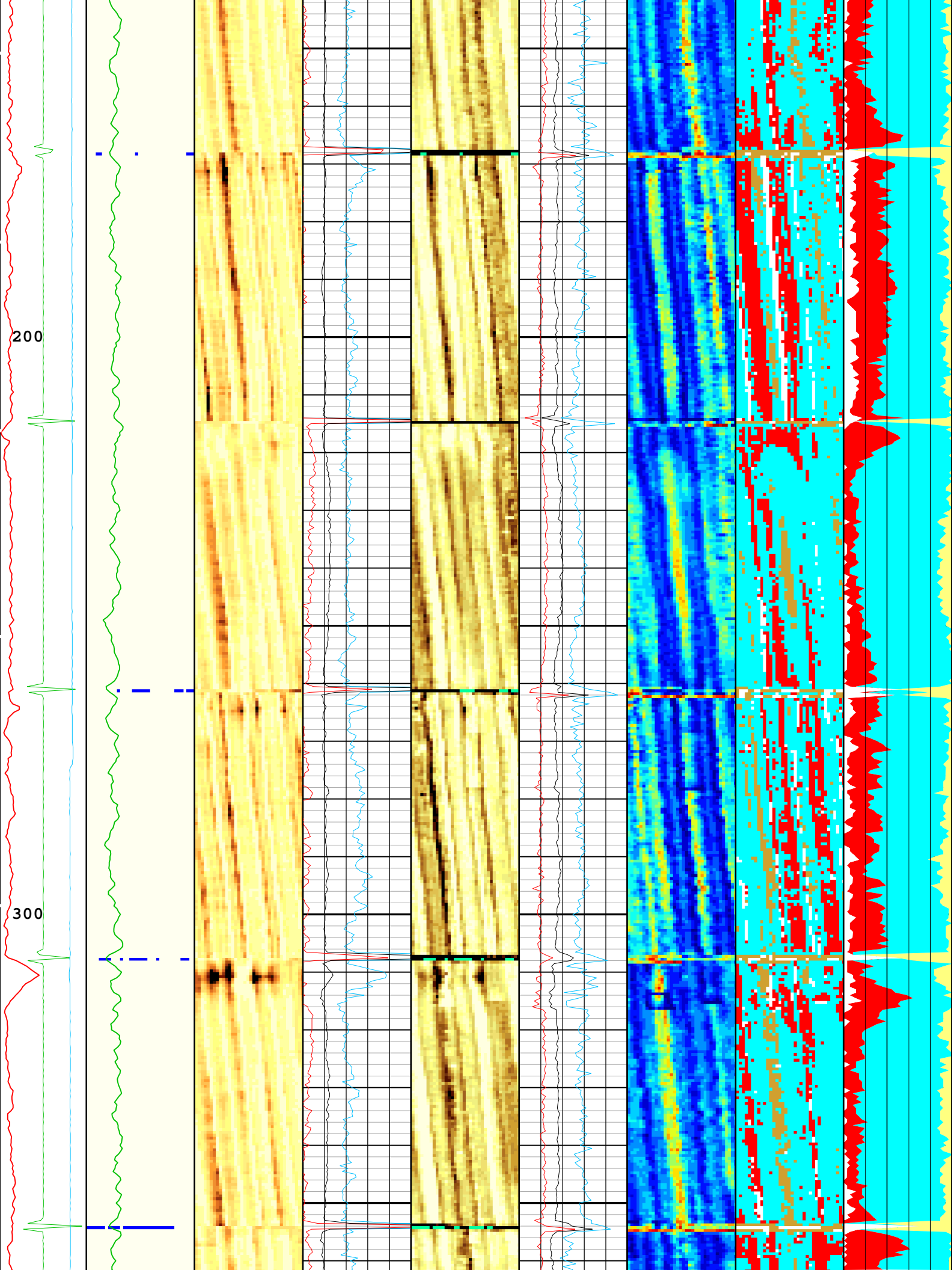
| Depth Summary                      |             |             |  |
|------------------------------------|-------------|-------------|--|
|                                    | 1A          | 1B          |  |
| Depth Measuring Device             |             |             |  |
| Type                               | IDW-B       | IDW-B       |  |
| Serial Number                      | 6455        | 6455        |  |
| Calibration Date                   | 27-Jul-2018 | 27-Jul-2018 |  |
| Calibrator Serial Number           | 57          | 57          |  |
| Calibration Cable Type             | 7-32ASXS    | 7-32ASXS    |  |
| Wheel Correction 1                 | -1          | -1          |  |
| Wheel Correction 2                 | 1           | 1           |  |
| Tension Device                     |             |             |  |
| Type                               | CMTD-B/A    | CMTD-B/A    |  |
| Serial Number                      | 1703        | 1703        |  |
| Calibration Date                   | 29-Jul-2018 | 29-Jul-2018 |  |
| Calibrator Serial Number           | 88310A      | 88310A      |  |
| Number of Calibration Points       | 10          | 10          |  |
| Calibration Root Mean Square Error | 6           | 6           |  |
| Calibration Peak Error             | 9           | 9           |  |
| Logging Cable                      |             |             |  |
| Type                               | 7-32AS-XS   | 7-32AS-XS   |  |
| Serial Number                      |             |             |  |
| Length                             | 21111.00 ft | 21111.00 ft |  |

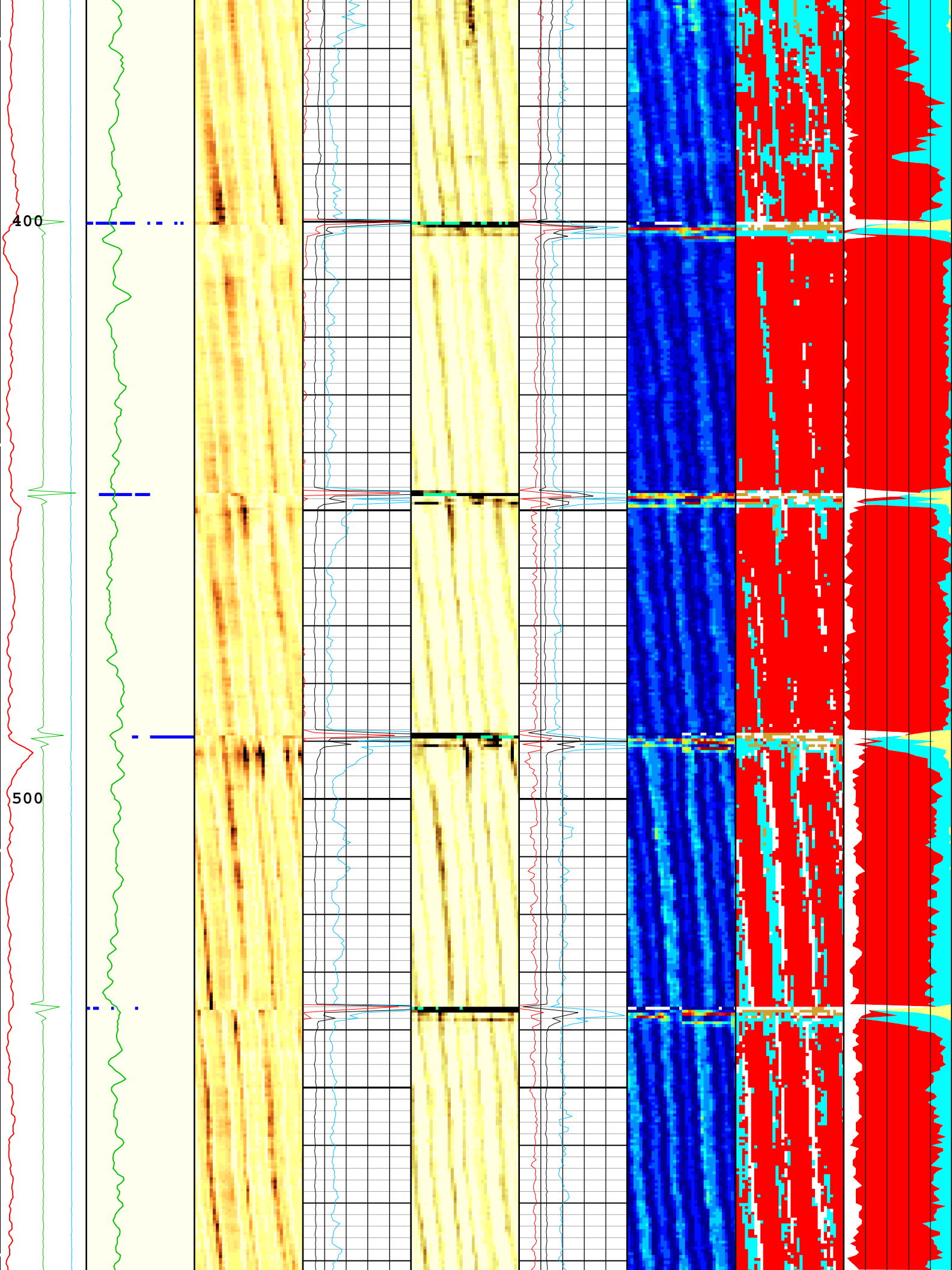
|   |                |  |            |   |                         |                         |          |             |                       |
|---|----------------|--|------------|---|-------------------------|-------------------------|----------|-------------|-----------------------|
| Conveyance Type   |                | Wireline   |            | Wireline  |                         |                         |          |             |                       |
| Rig Type  |                | Crane USA  |            | Crane USA   |                         |                         |          |             |                       |
| 1A:Depth Control Parameters   |                |  |            | Depth Control Remarks   |                         |                         |          |             |                       |
| Log Sequence  |                | First Log In the Well  |            |   |                         |                         |          |             |                       |
| Rig Up Length At Surface  |                |  |            |   |                         |                         |          |             |                       |
| Rig Up Length At Bottom   |                |  |            |   |                         |                         |          |             |                       |
| Rig Up Length Correction  |                |  |            |   |                         |                         |          |             |                       |
| Stretch Correction  |                |  |            |   |                         |                         |          |             |                       |
| Tool Zero Check At Surface  |                |  |            |   |                         |                         |          |             |                       |
| 1B:Depth Control Parameters   |                |  |            | Depth Control Remarks   |                         |                         |          |             |                       |
| Log Sequence  |                | First Log In the Well  |            | All Schumberger depth control procedures followed.<br><br>IDW used for primary depth control.<br><br>Zchart used for secondary depth control.<br><br>Logs correlated to down log. |                         |                         |          |             |                       |
| Rig Up Length At Surface  |                |  |            |   |                         |                         |          |             |                       |
| Rig Up Length At Bottom   |                |  |            |   |                         |                         |          |             |                       |
| Rig Up Length Correction  |                |  |            |   |                         |                         |          |             |                       |
| Stretch Correction  |                |  |            |   |                         |                         |          |             |                       |
| Tool Zero Check At Surface  |                |  |            |   |                         |                         |          |             |                       |
| USIT - Fluid Properties Measurement   |                |  |            |   |                         |                         |          |             |                       |
| Run Name  |                | Pass Name  |            | Start Depth(ft)   |                         | Stop Depth(ft)          |          |             |                       |
| Run 2   |                | Log[2]:Up  |            | 6606.03   |                         | 4937.78                 |          |             |                       |
| Fluid Velocity = "Automatic".<br>CFVL equals DFSL channel   |                |  |            |   |                         |                         |          |             |                       |
| Start Depth(ft)   |                | Stop Depth(ft)   |            | Start Value(us/ft)  |                         | End Value(us/ft)        |          |             |                       |
| Mud Impedance = "FreePipe Norm".<br>Free Pipe normalization zone is : 1632.36m(5355.53ft) to 1635.73m(5366.57ft)<br>MUD_N_FRP = 1.17<br>DFD = 1.01g/cm3(8.40lbm/gal)<br>CZMD median computed in free pipe normalization interval = 1.77 MRayl |                |  |            |   |                         |                         |          |             |                       |
| Start Depth(ft)   |                | Stop Depth(ft)   |            | Start Value(Mrayl)  |                         | End Value(Mrayl)        |          |             |                       |
| main  |                |  |            |   |                         |                         |          |             |                       |
| IBC SLG 0 PSI   |                |  |            |   |                         |                         |          |             |                       |
| Software Version  |                |  |            |   |                         |                         |          |             |                       |
| Acquisition System  |                |  |            | Version   |                         |                         |          |             |                       |
| Maxwell 2018 SP2  |                |  |            | 8.2.102758.3100   |                         |                         |          |             |                       |
| Composite Summary   |                |  |            |   |                         |                         |          |             |                       |
| Run Name  | Pass Objective | Direction  | Top        | Bottom  | Start                   | Stop                    | DSC Mode | Depth Shift | Include Parallel Data |
| 1A  | Log[3]:Up      | Up   | 23.56 ft   | 6751.53 ft  | 18-Oct-2018 9:34:10 AM  | 18-Oct-2018 11:16:16 AM | ON       | 5.11 ft     | Yes                   |
| 1B  | Log[2]:Up      | Up   | 4937.78 ft | 6606.03 ft  | 18-Oct-2018 12:36:52 PM | 18-Oct-2018 1:00:38 PM  | ON       | 5.11 ft     | Yes                   |
| All depths are referenced to toolstring zero  |                |  |            |   |                         |                         |          |             |                       |
| Log   |                | Company:Crestone Peak Resources Operating LLC      Well:Sam 3J-25H-M166<br>main:S004 |            |   |                         |                         |          |             |                       |
| Description: USI IBC SLG    Format: Log ( IBC SLG )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 18-Oct-2018 18:49:34  |                |  |            |   |                         |                         |          |             |                       |
| USIT Processing Flags (UFLG[0]) USIT-E[1]   |                |  |            |   |                         |                         |          |             |                       |
| 1 - UFLG 1 Value within [0.0 - 1.5] - :   |                |  |            | ■ UTIM Error  |                         |                         |          |             |                       |
| 2 - UFLG 2 Value within [1.5 - 2.5] - :   |                |  |            | ■ Pulse Origin Not Detected   |                         |                         |          |             |                       |
| 3 - UFLG 3 Value within [2.5 - 3.5] - :   |                |  |            | ■ WINLEN Error  |                         |                         |          |             |                       |
| 4 - UFLG 4 Value within [3.5 - 4.5] - :   |                |  |            | ■ Gain Error  |                         |                         |          |             |                       |

4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : Casing Thickness Error  
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - : Loop Processing Error

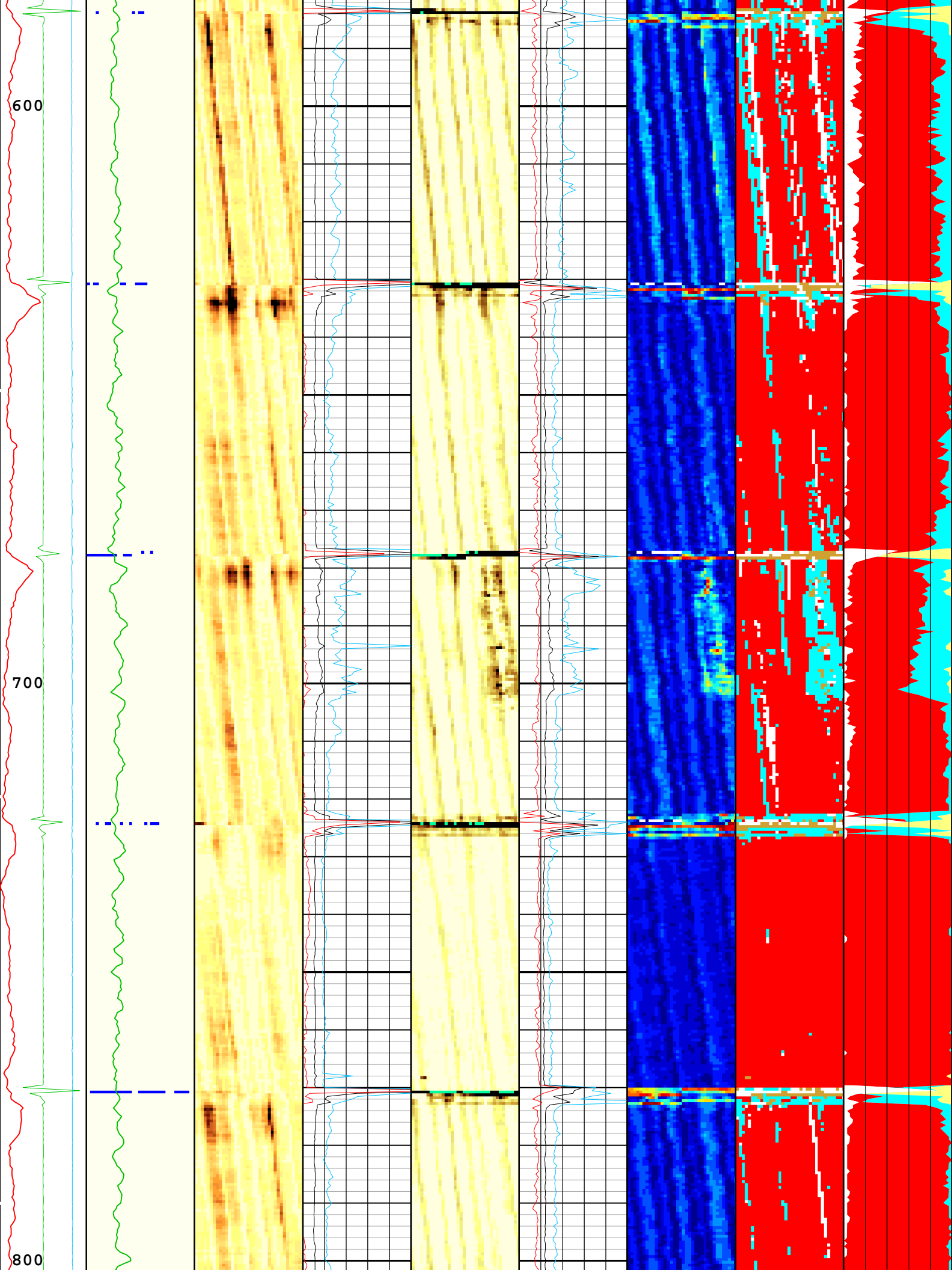
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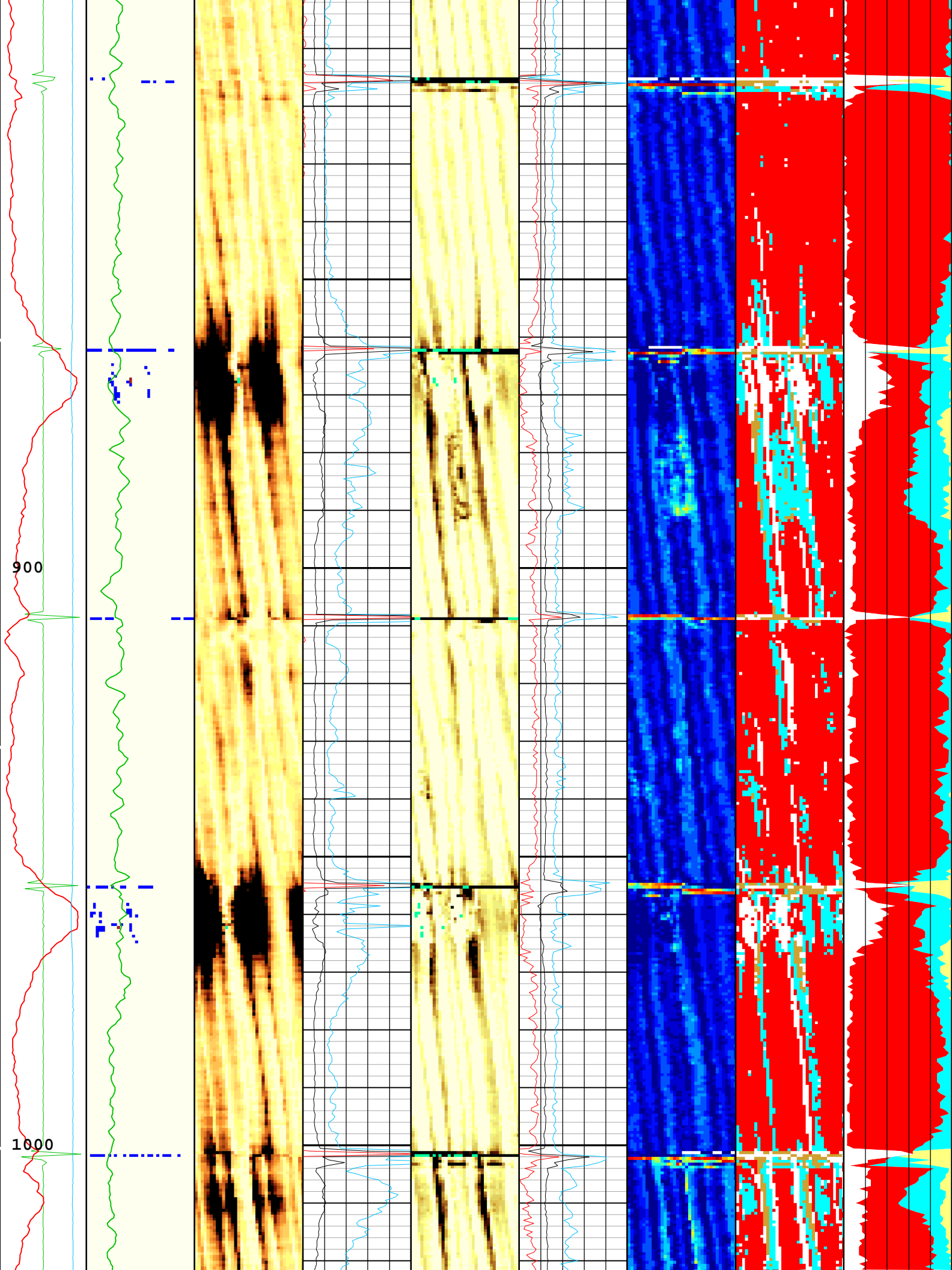


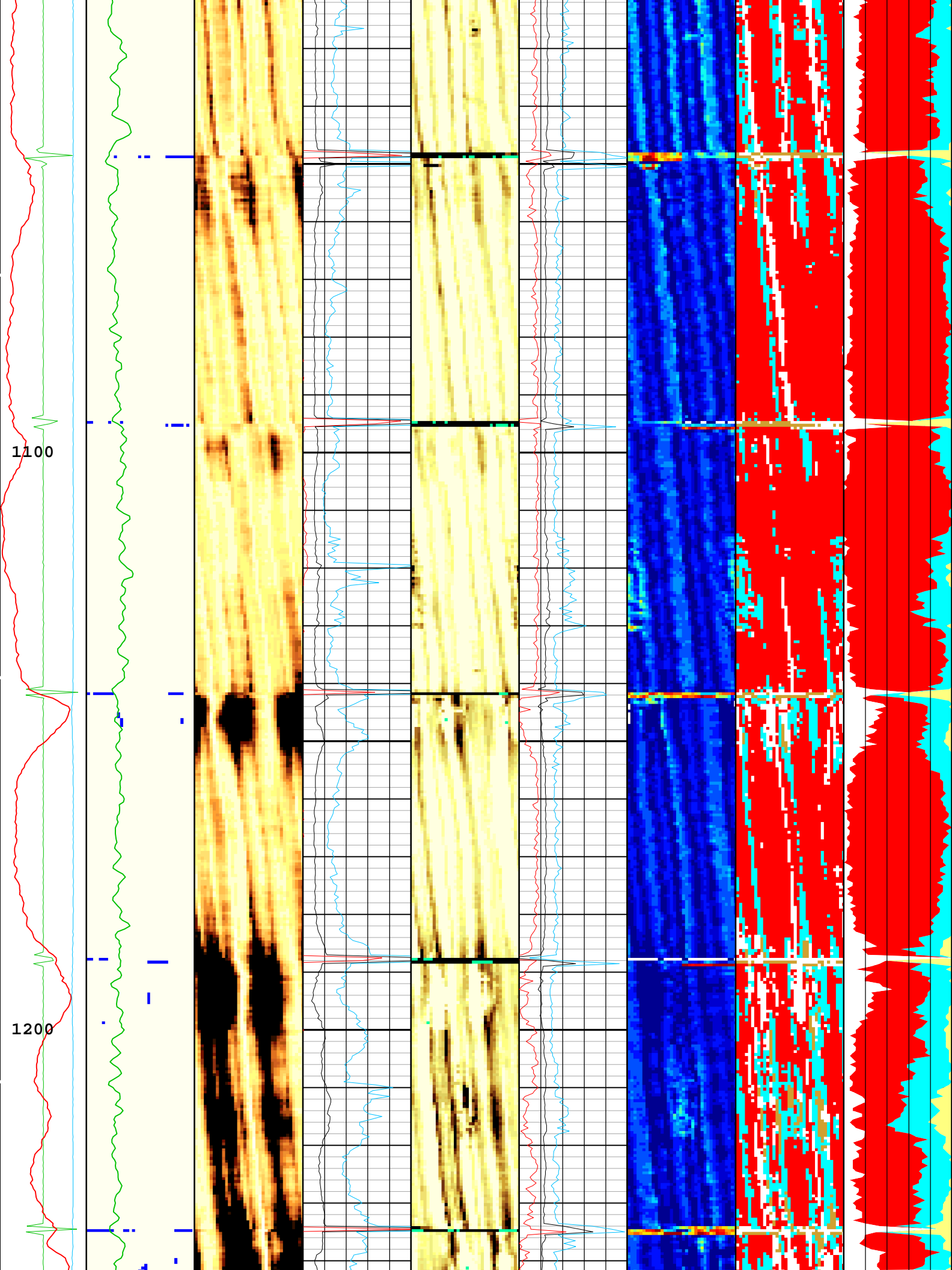


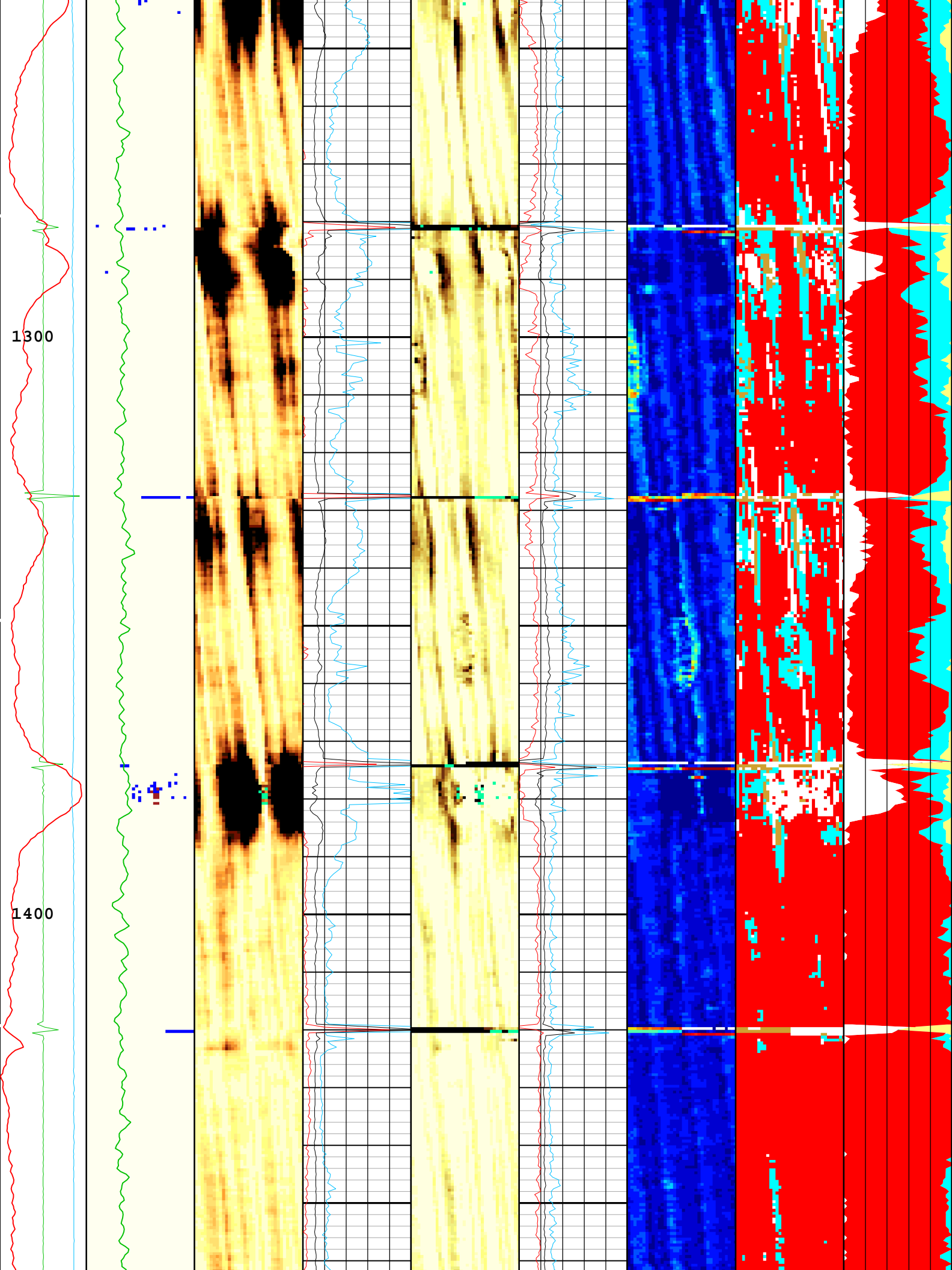


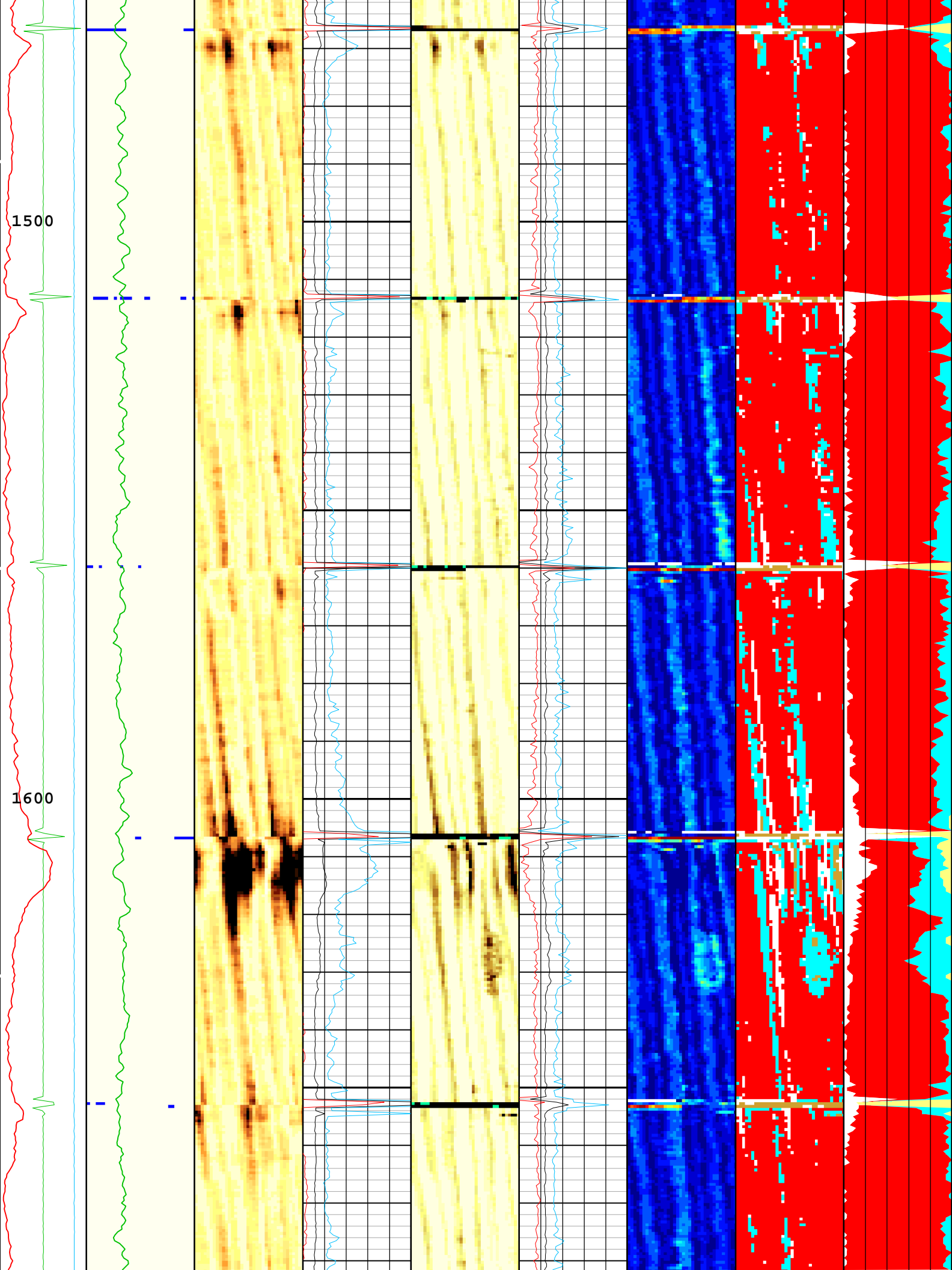


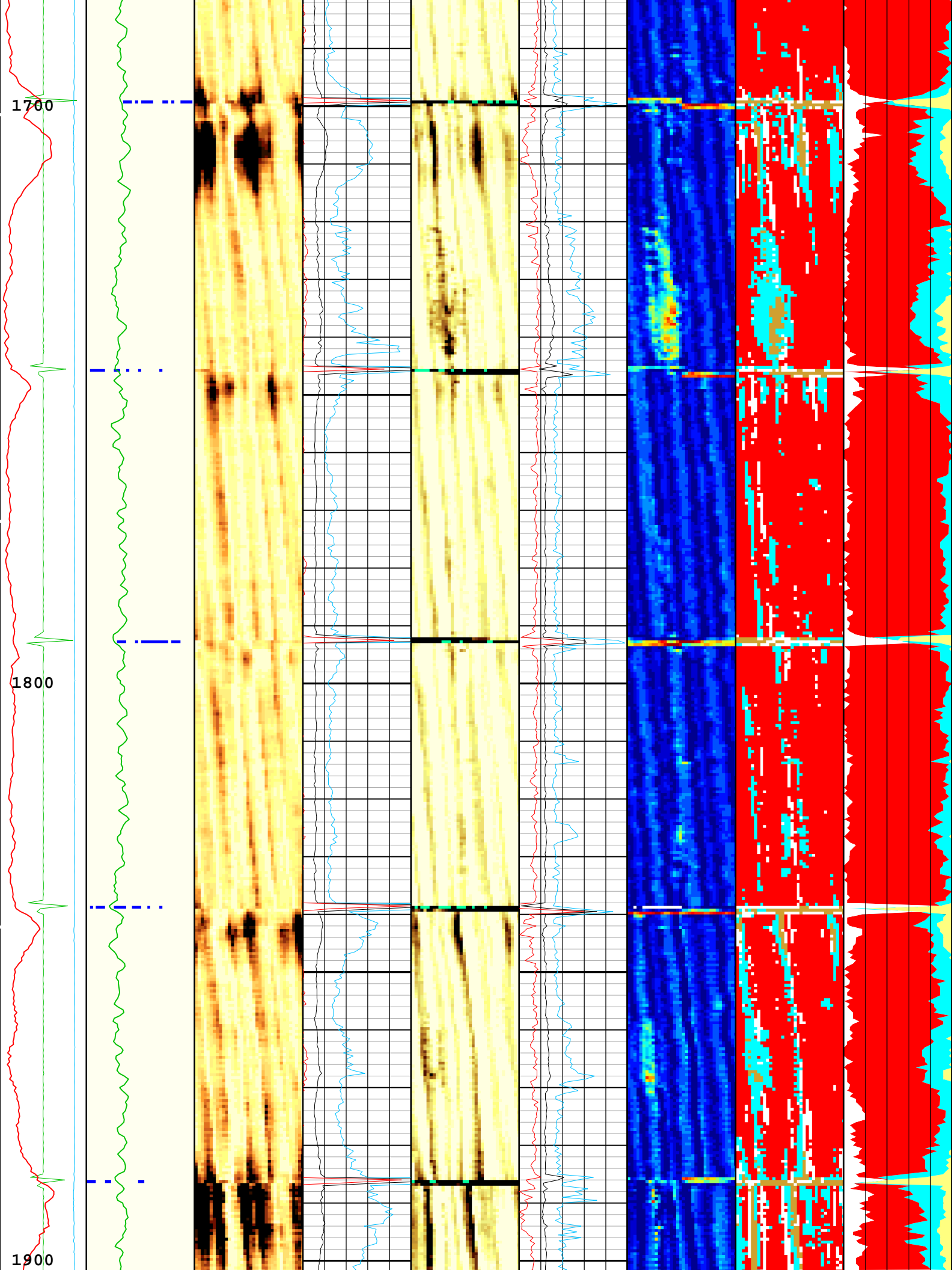


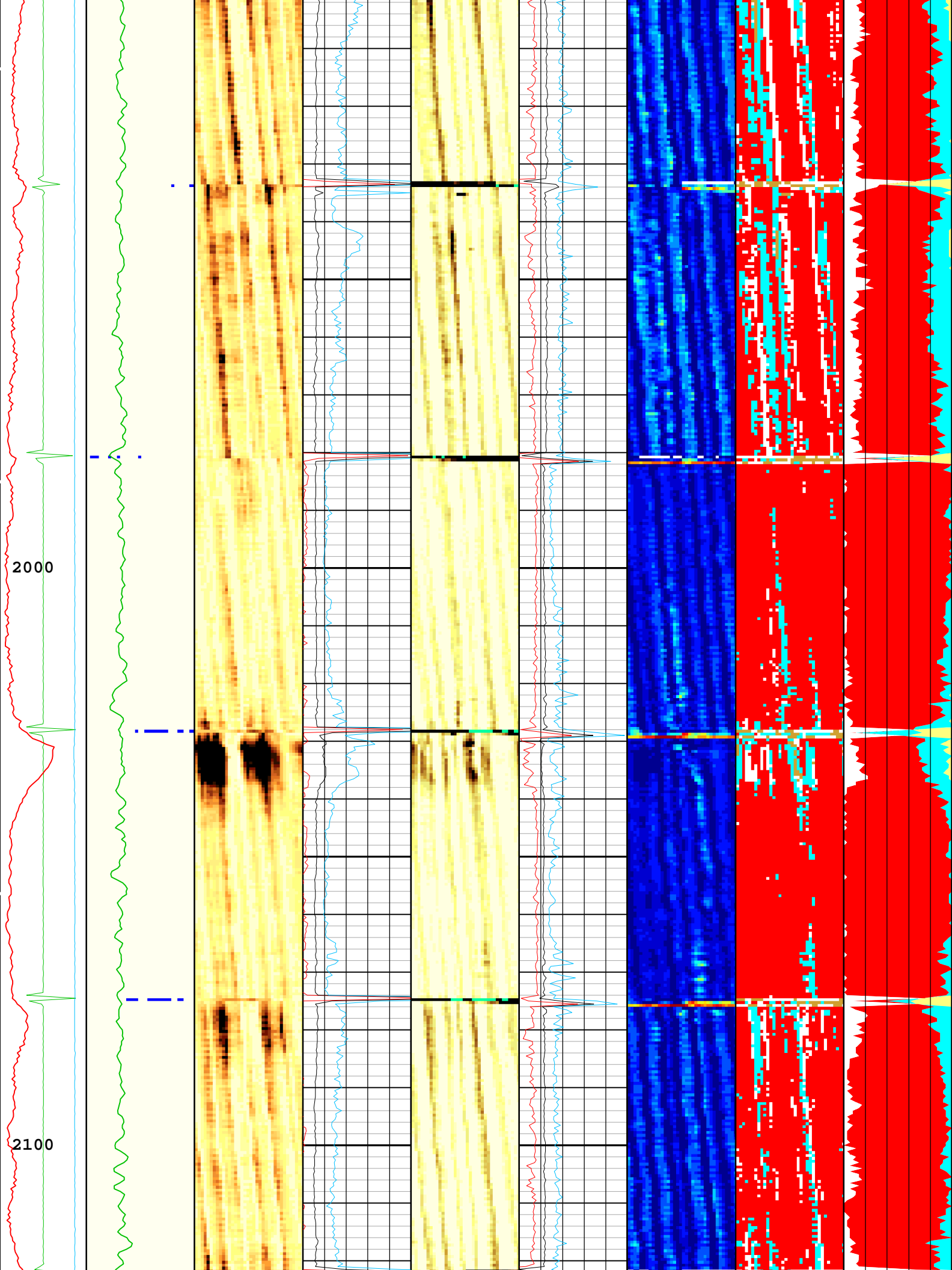




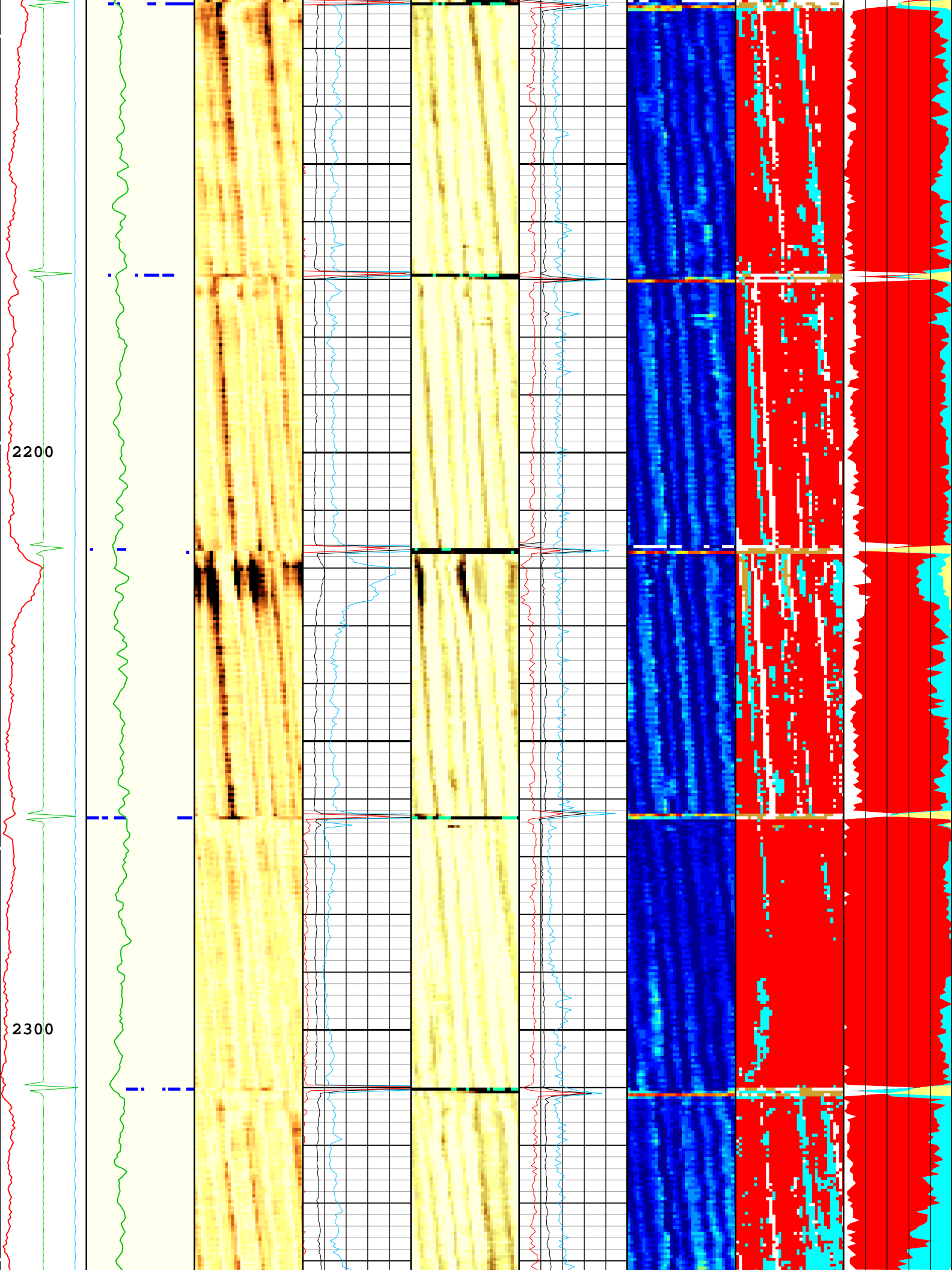




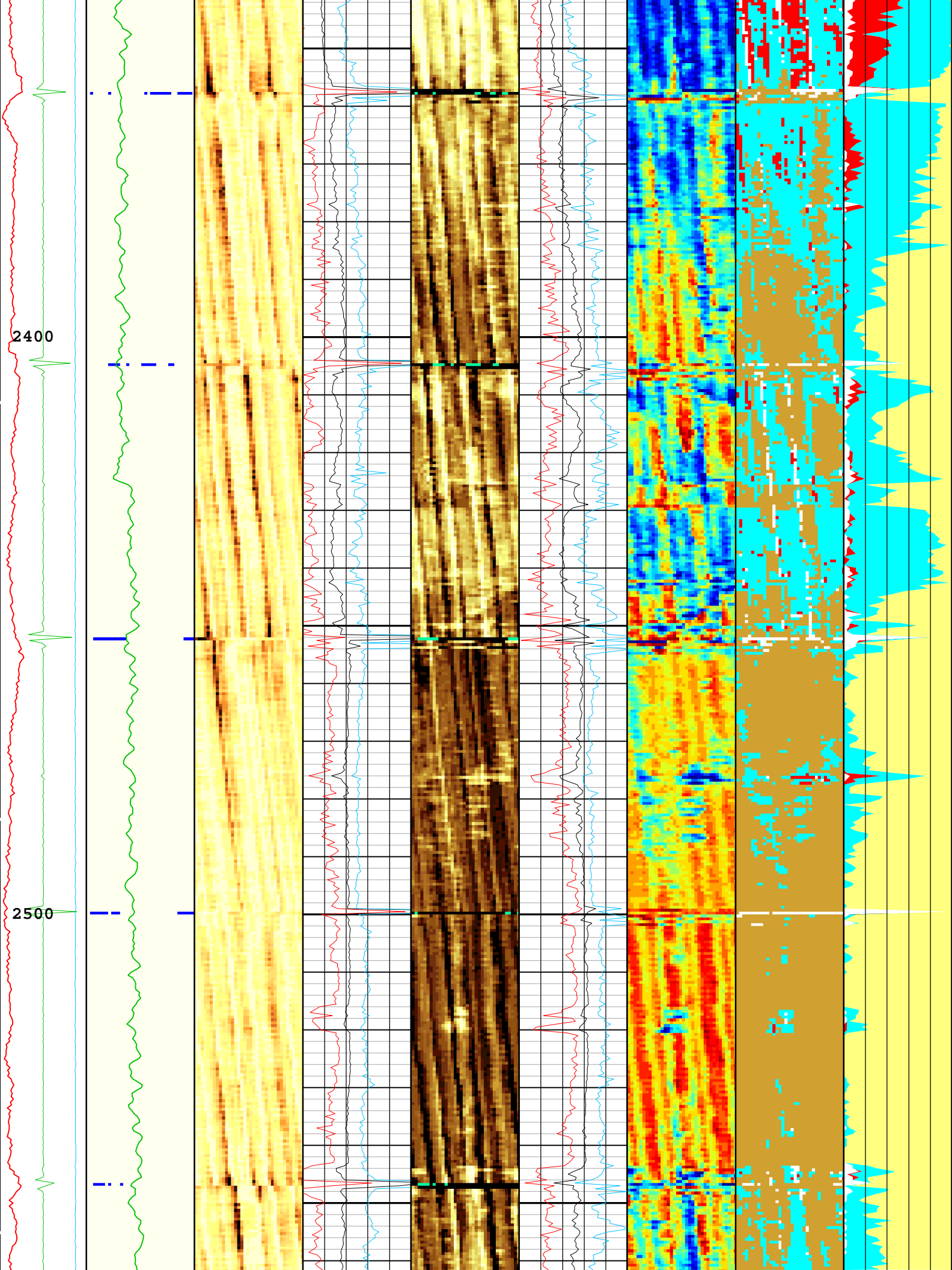


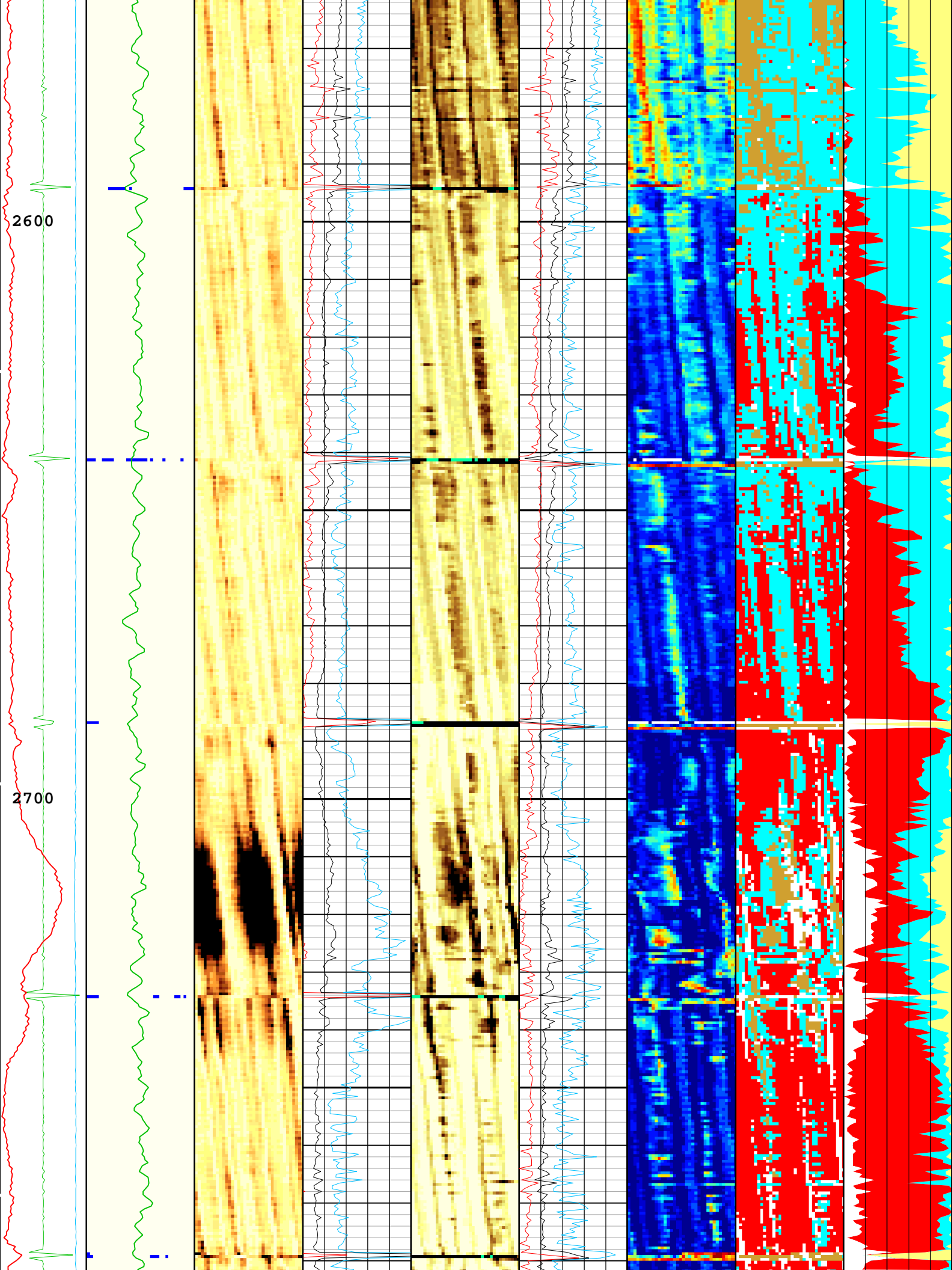


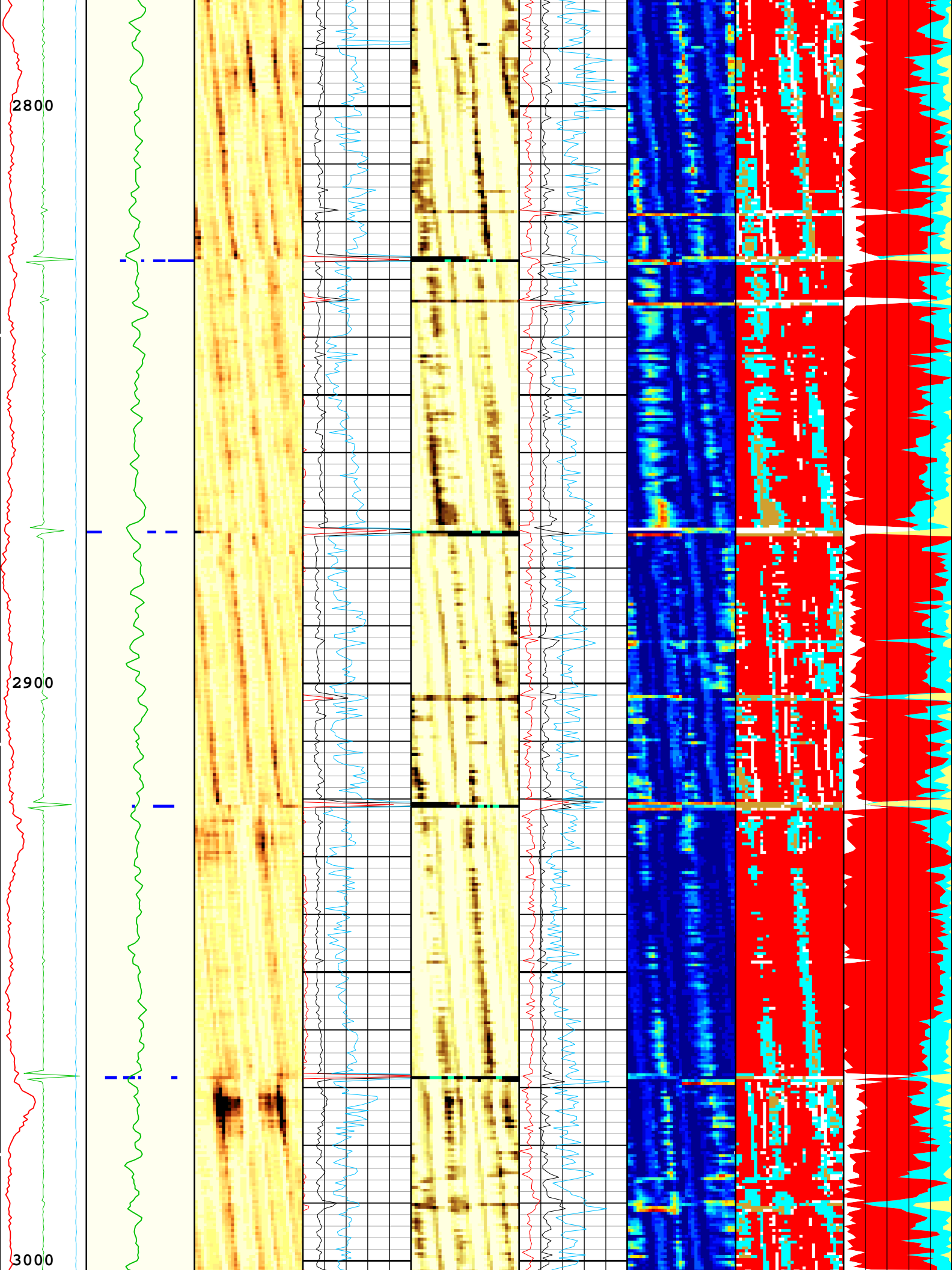


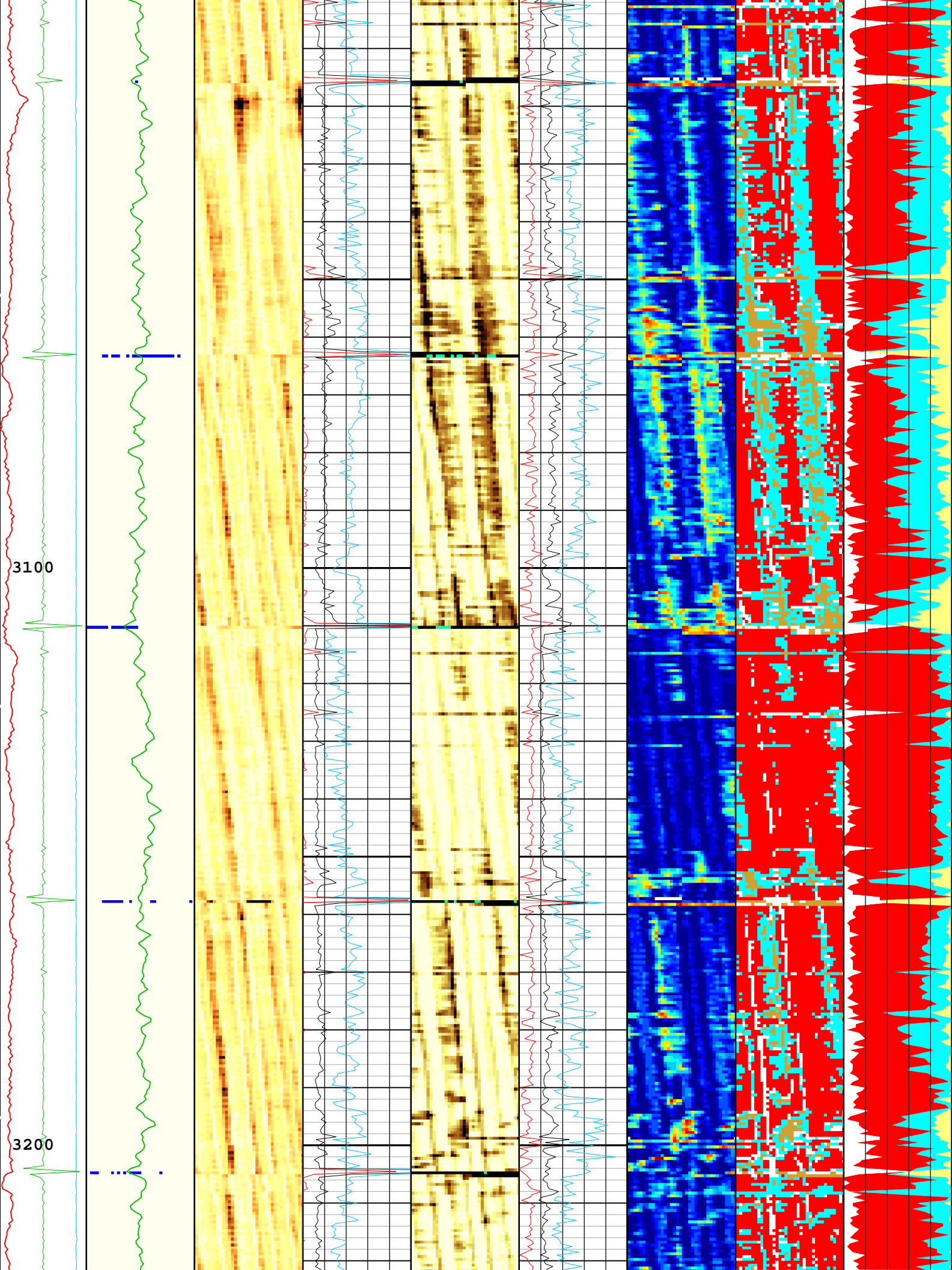


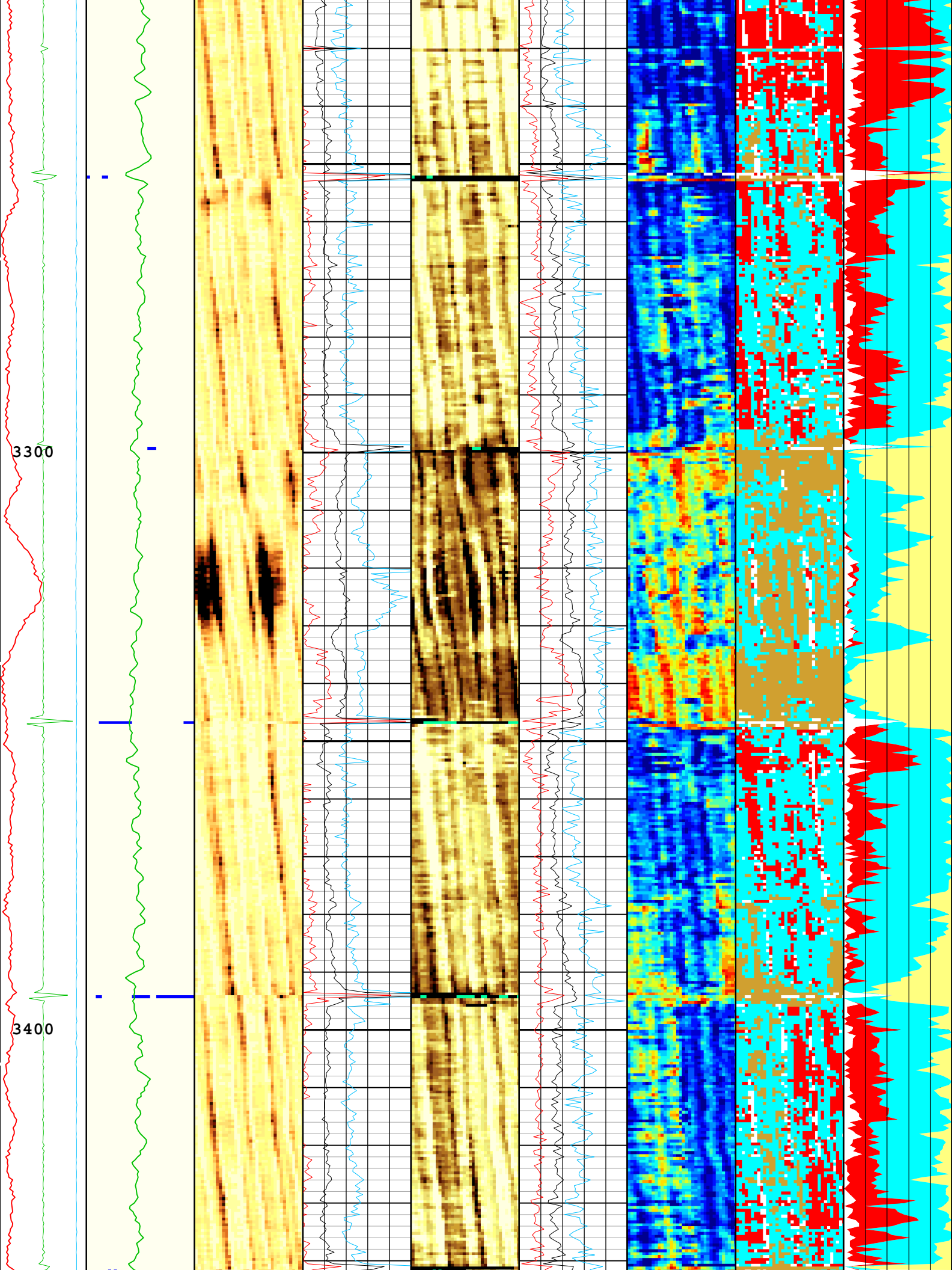




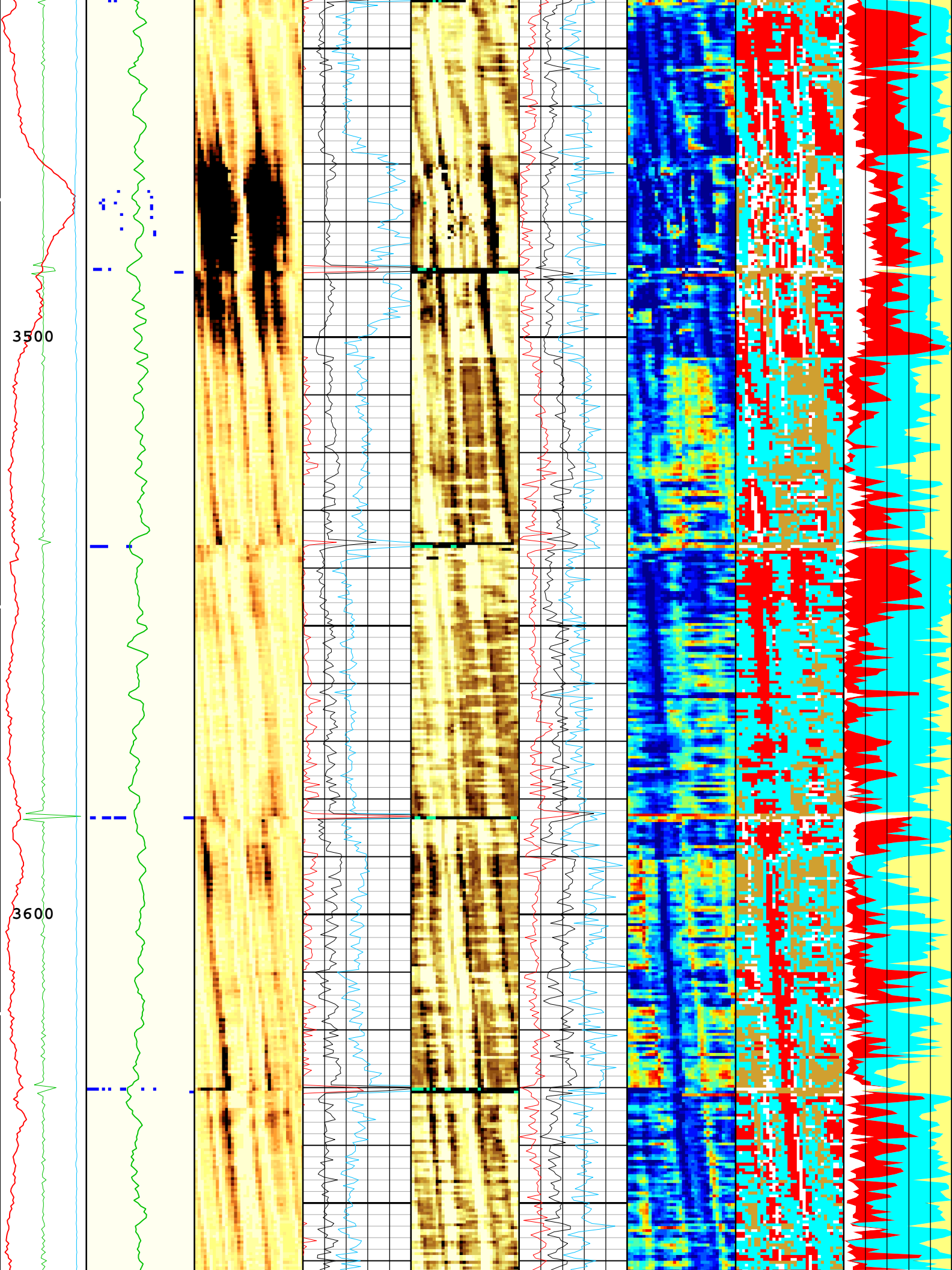


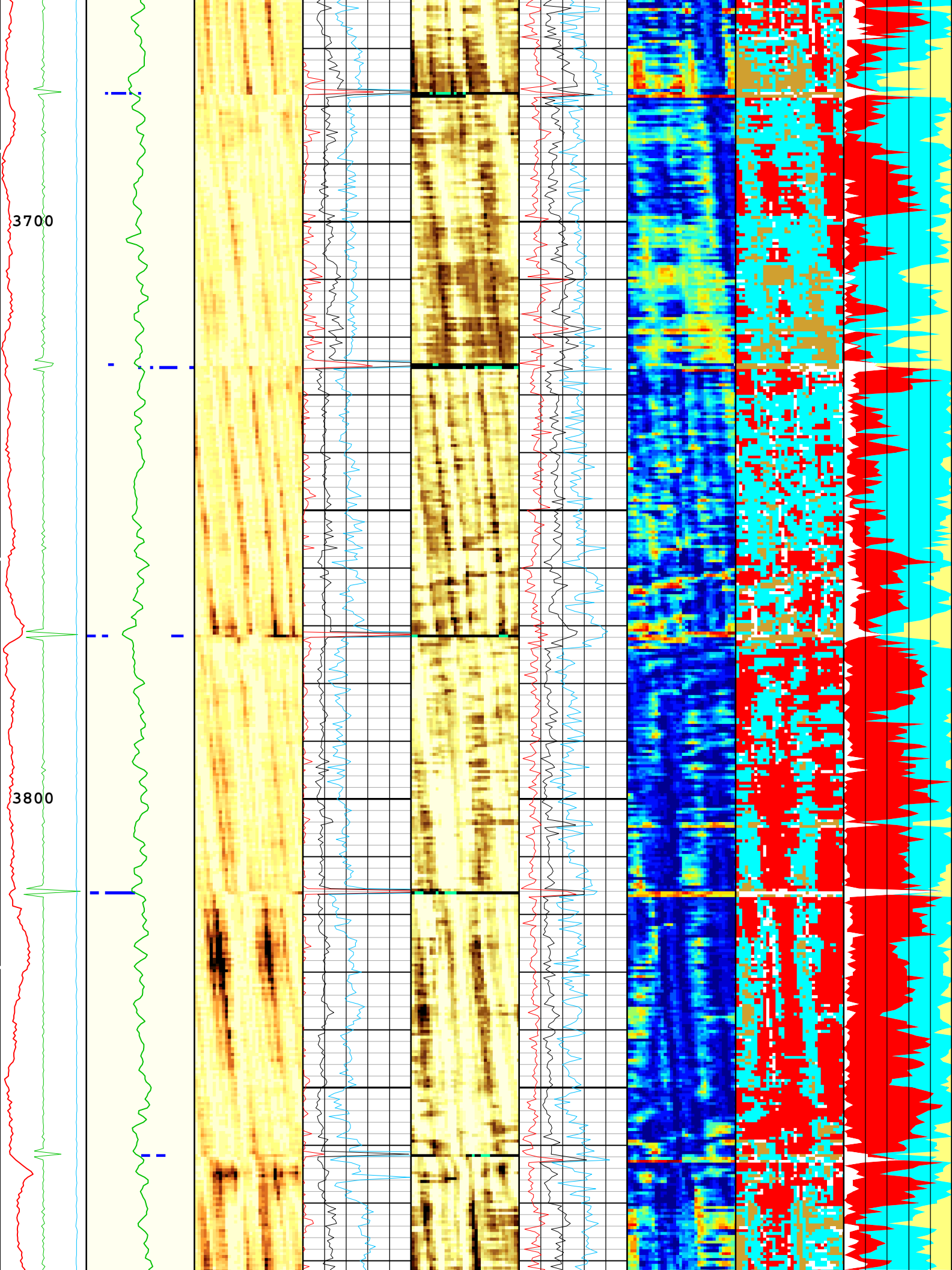


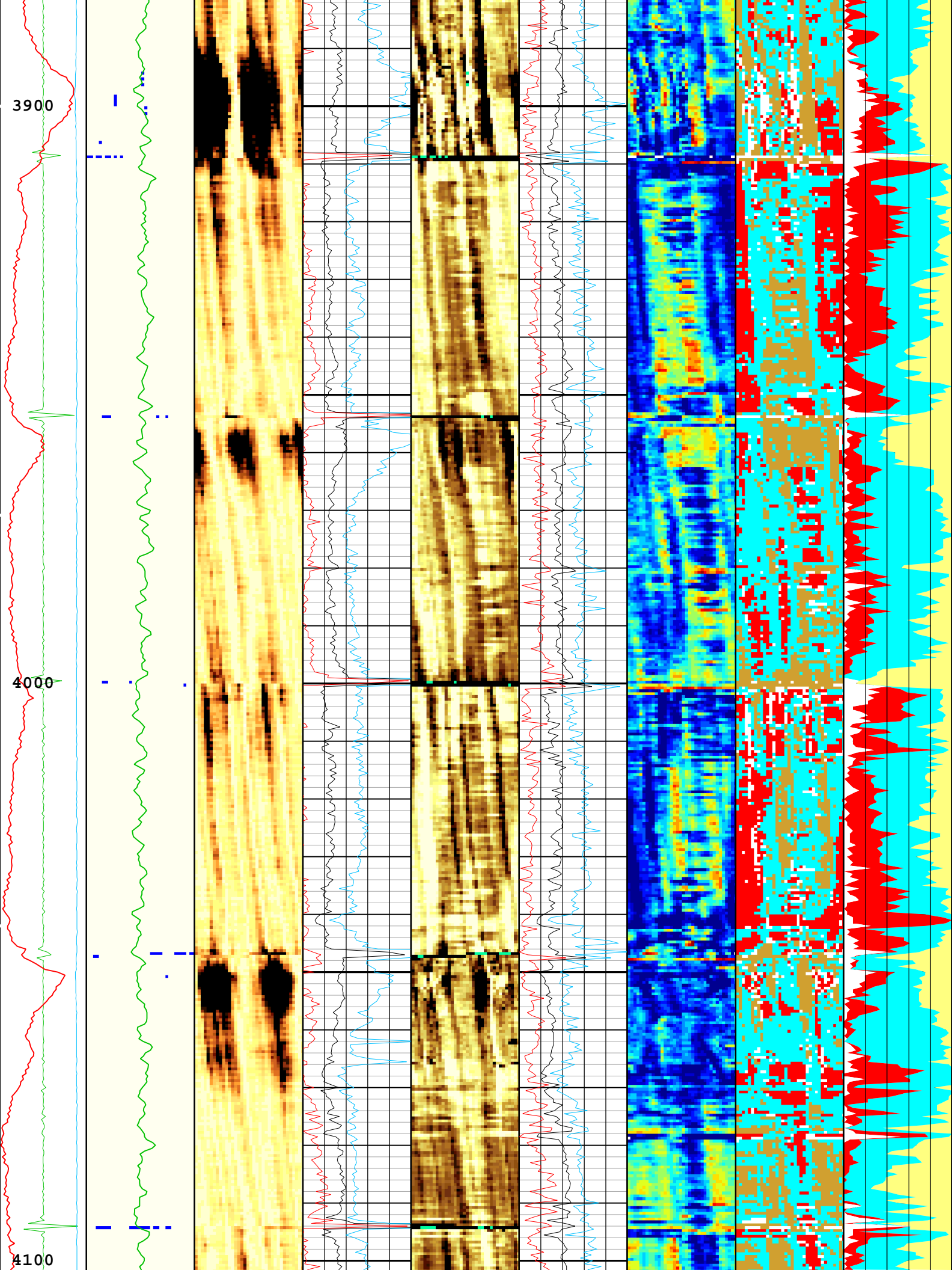




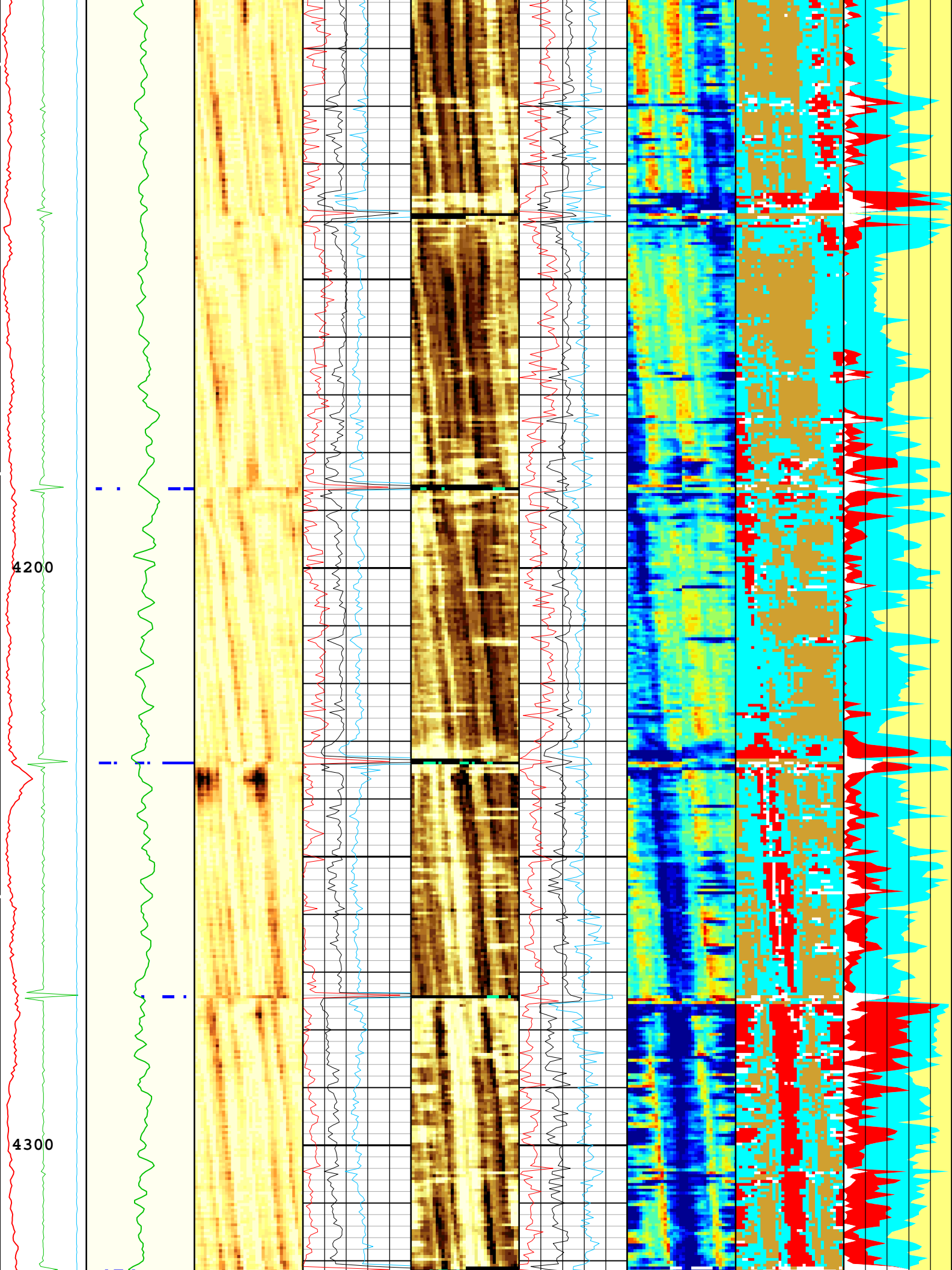


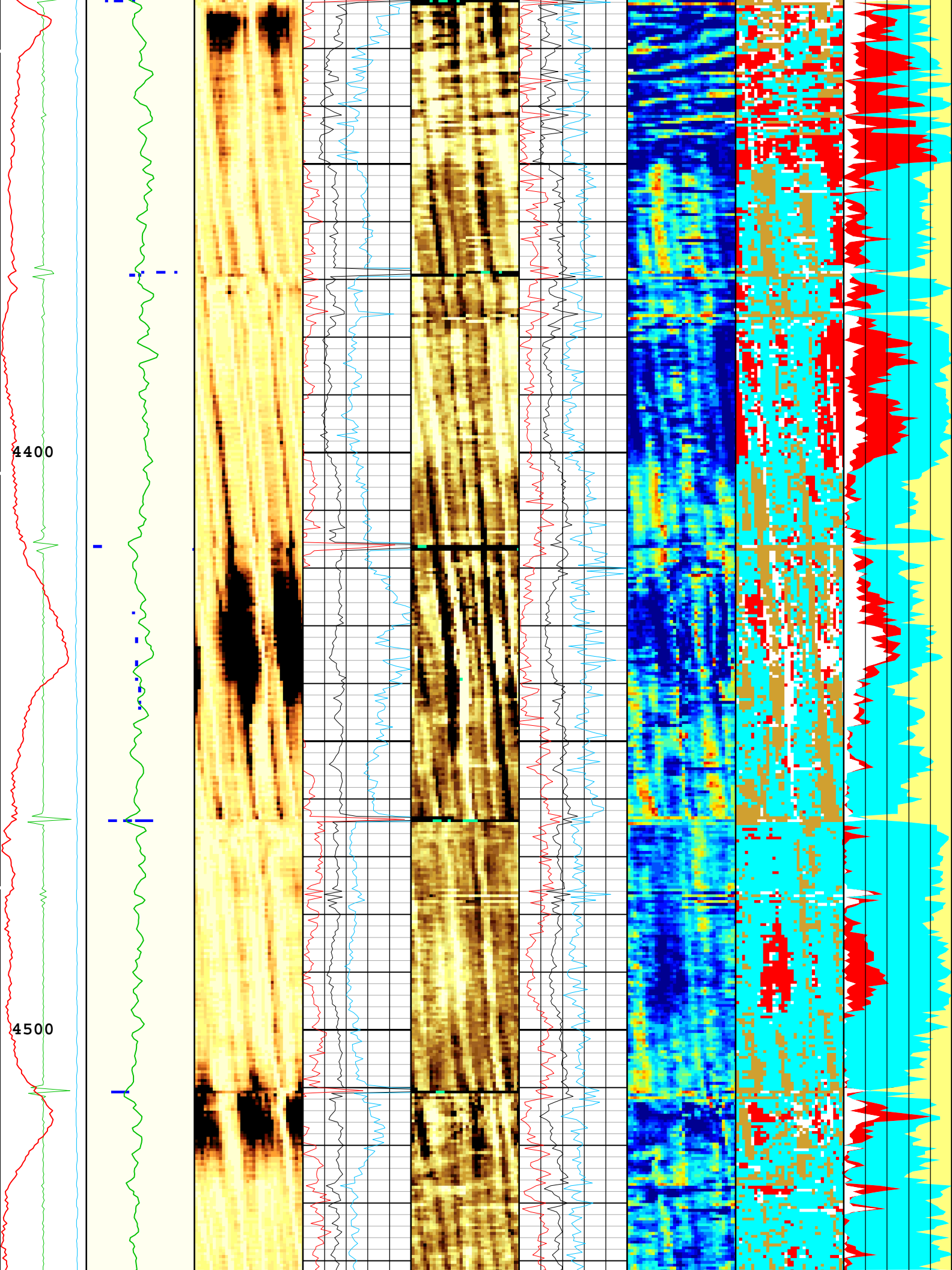


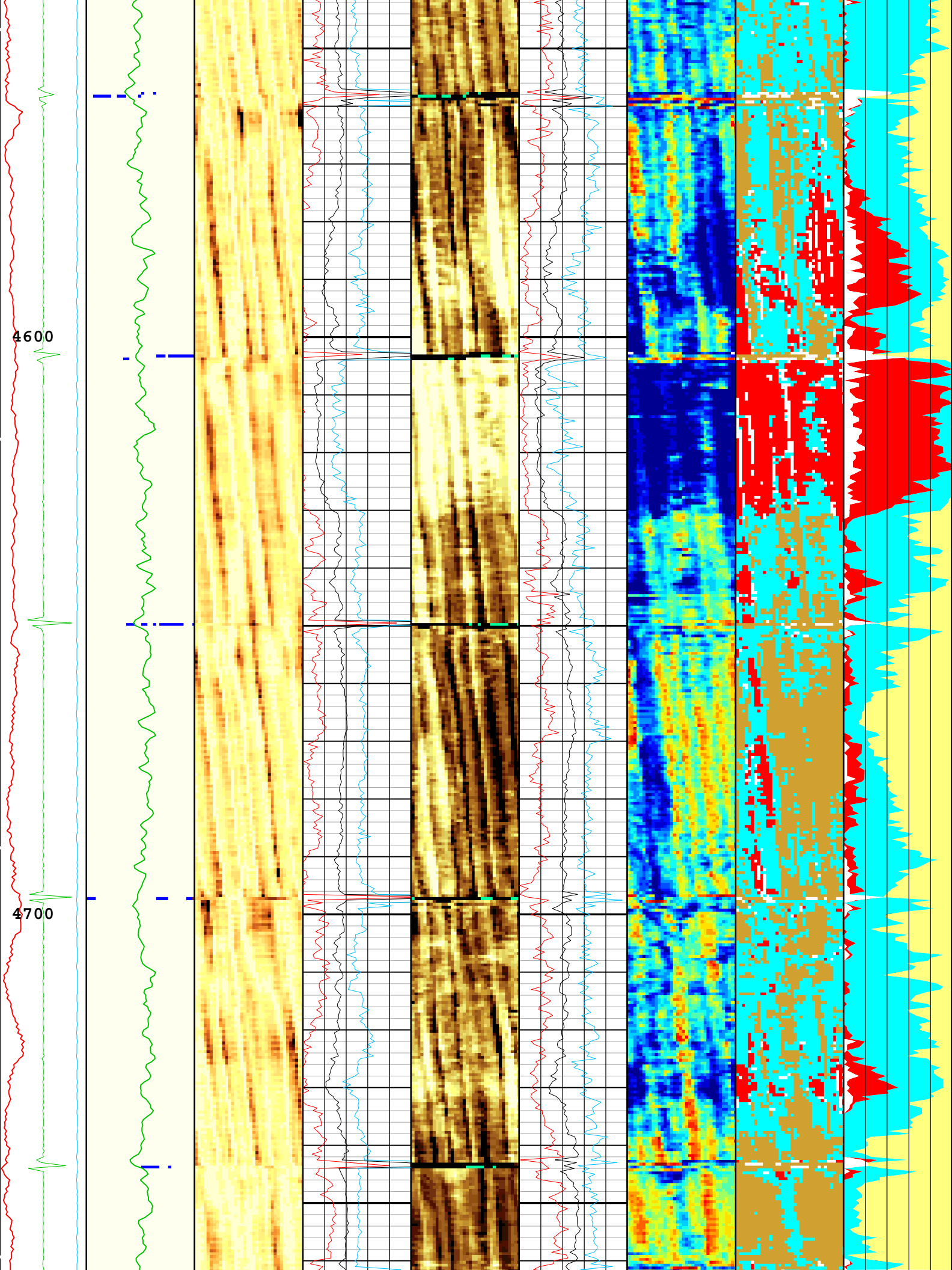


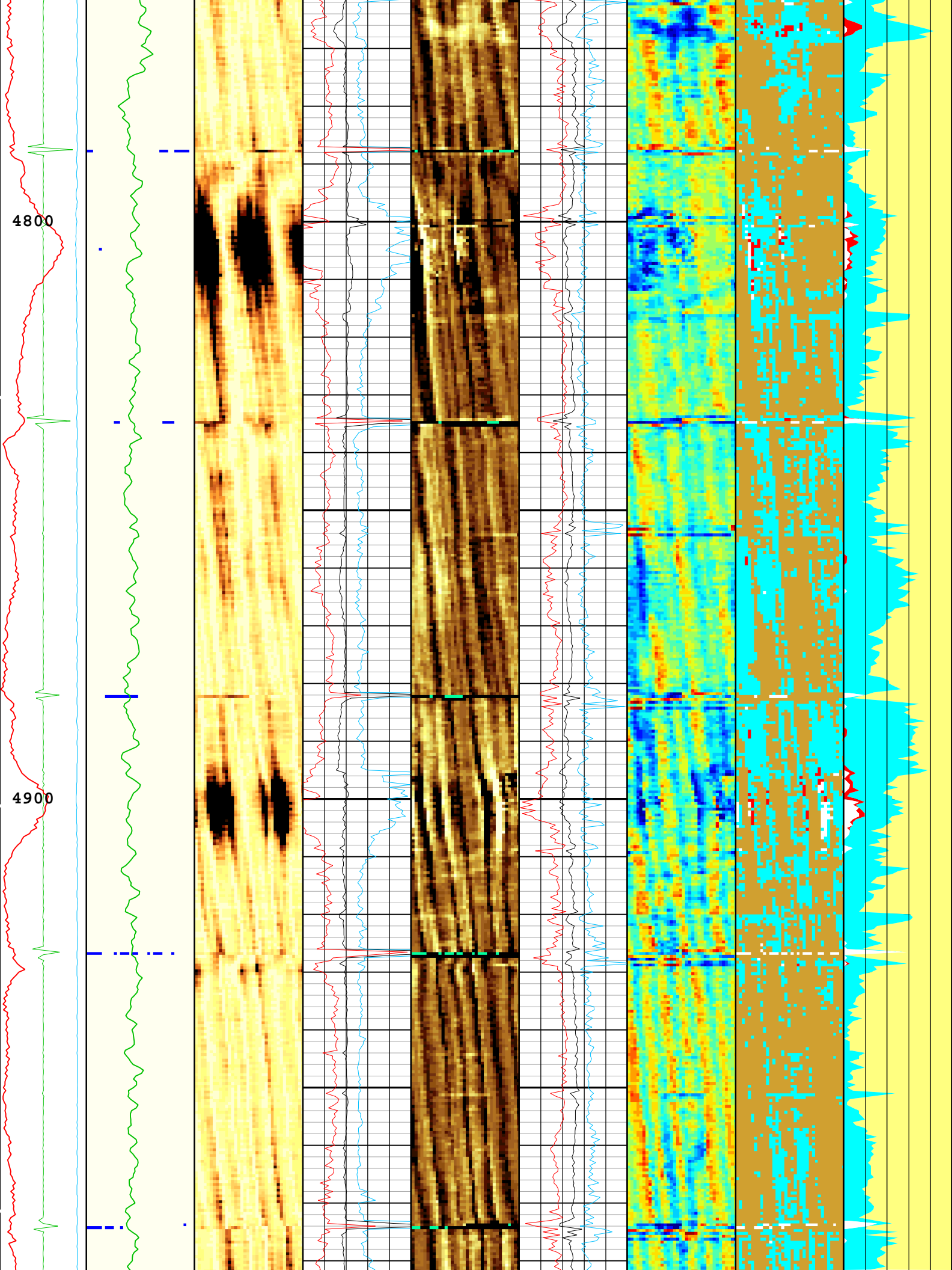




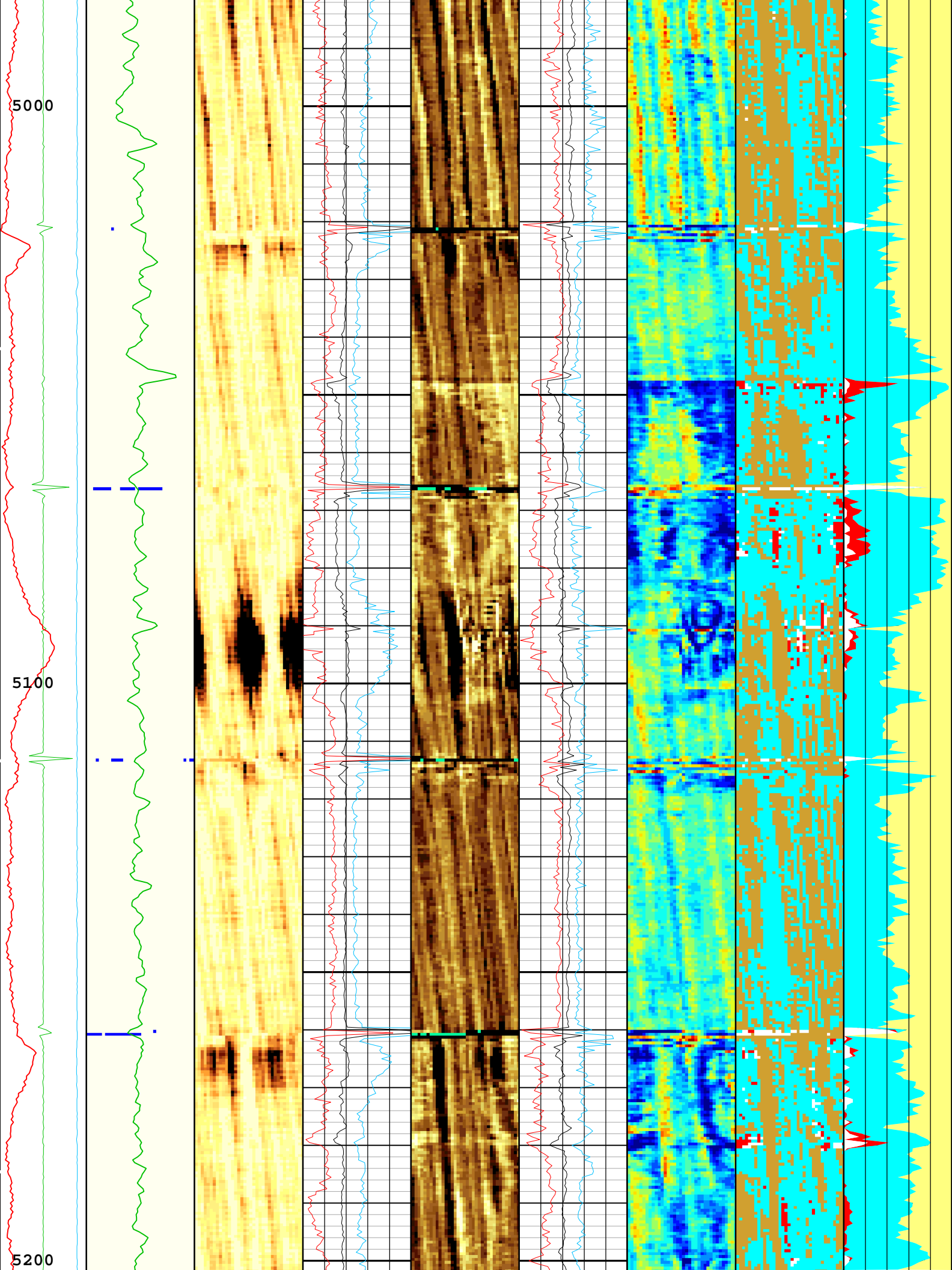


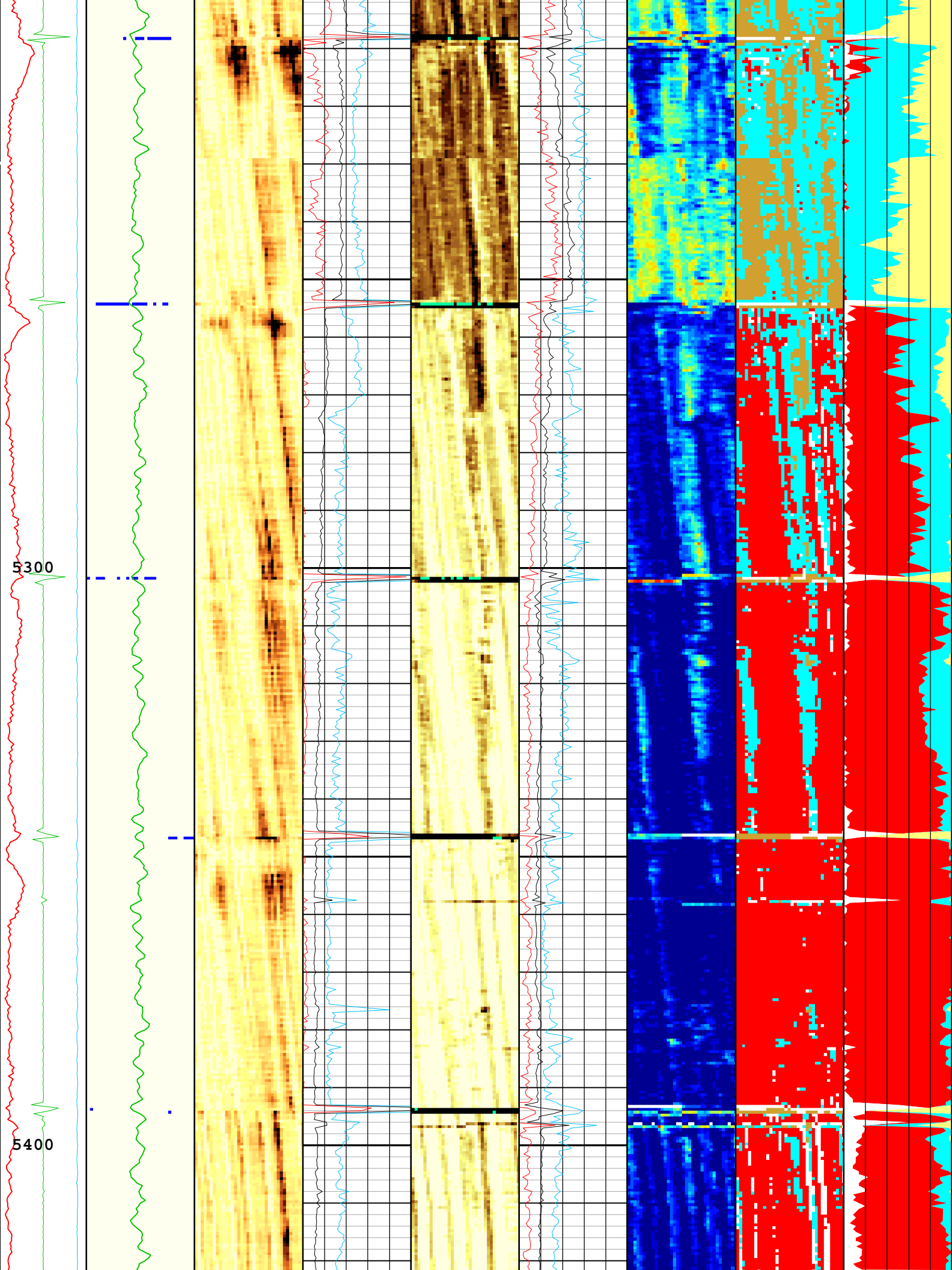


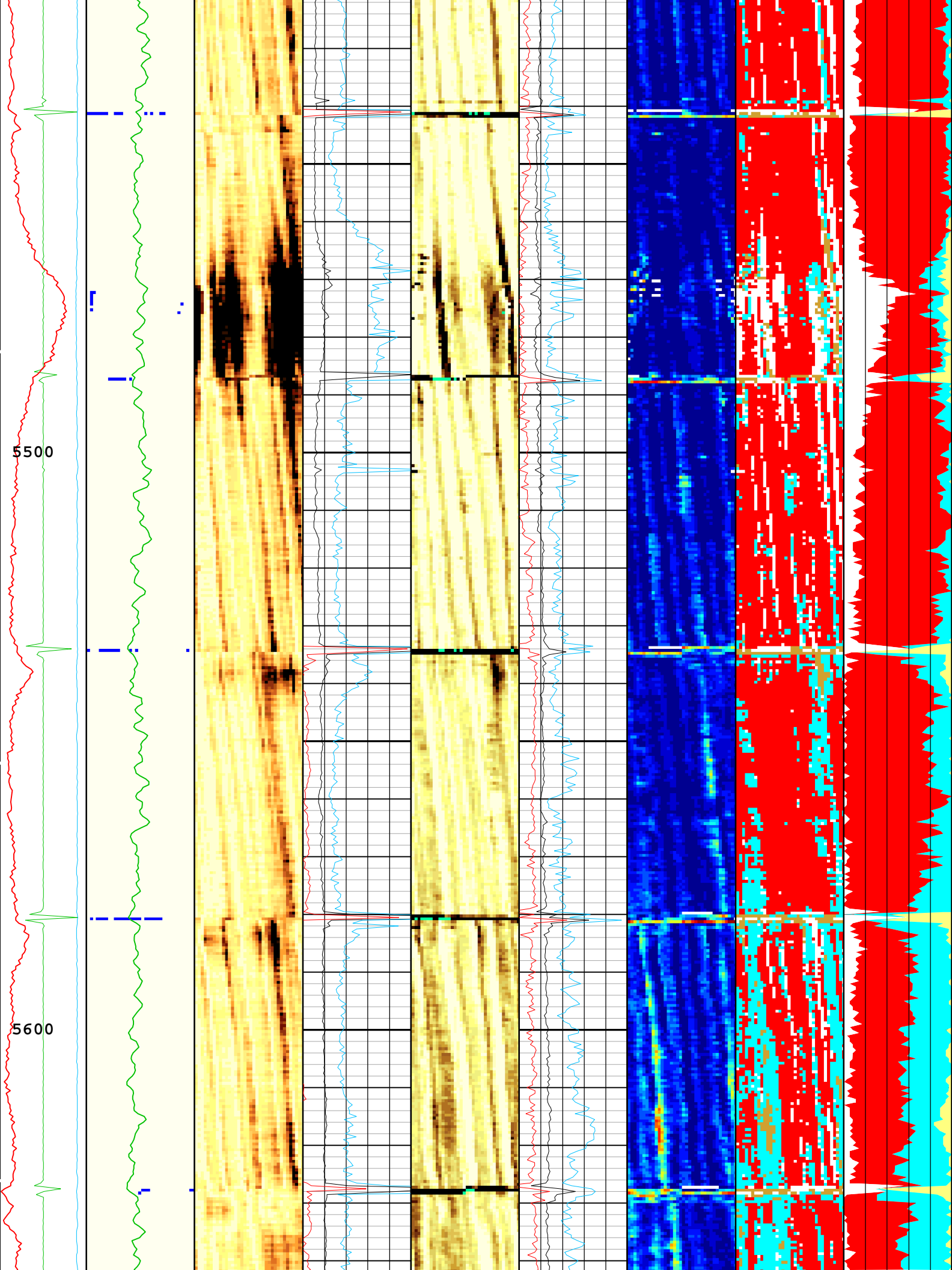


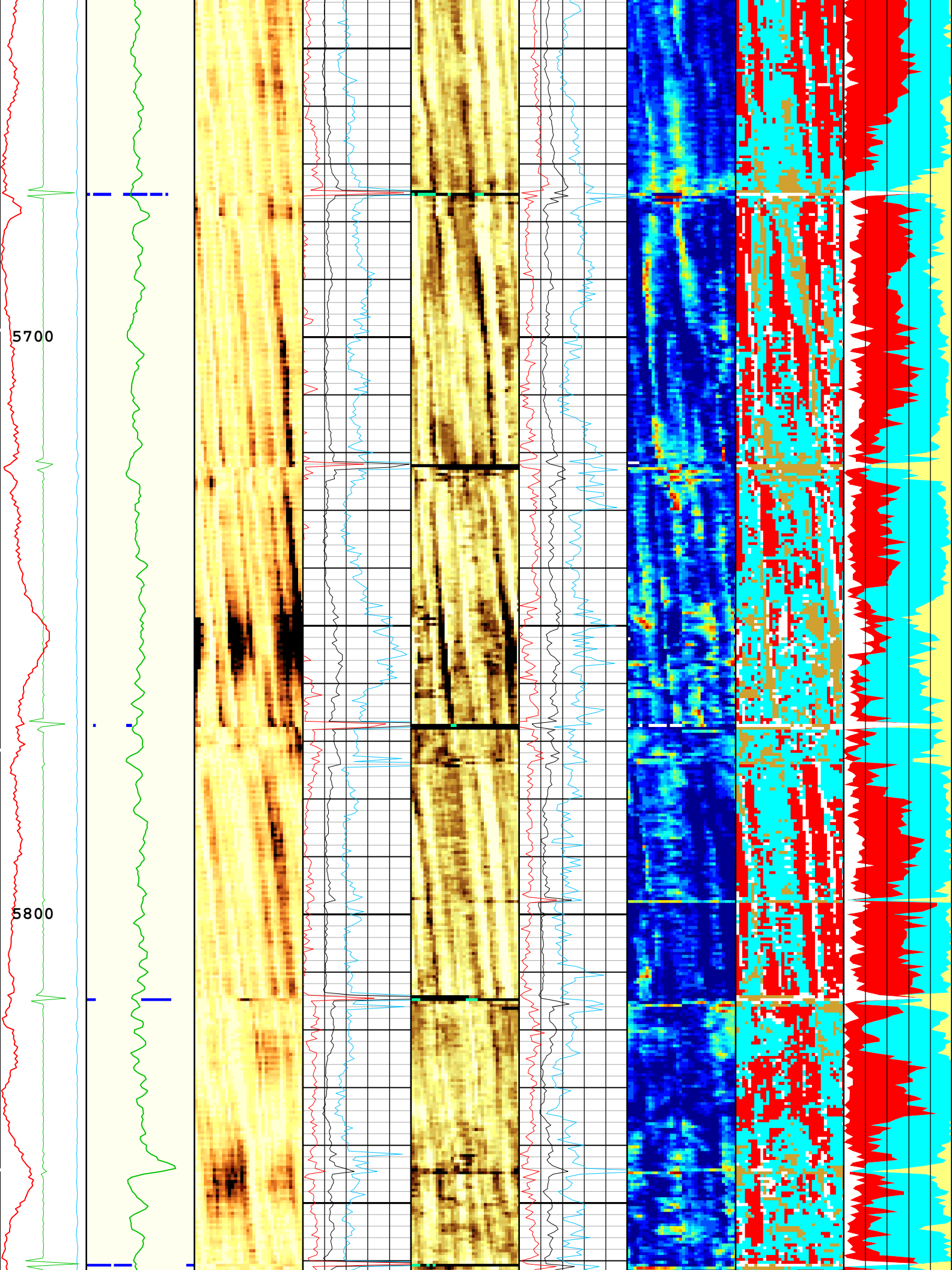




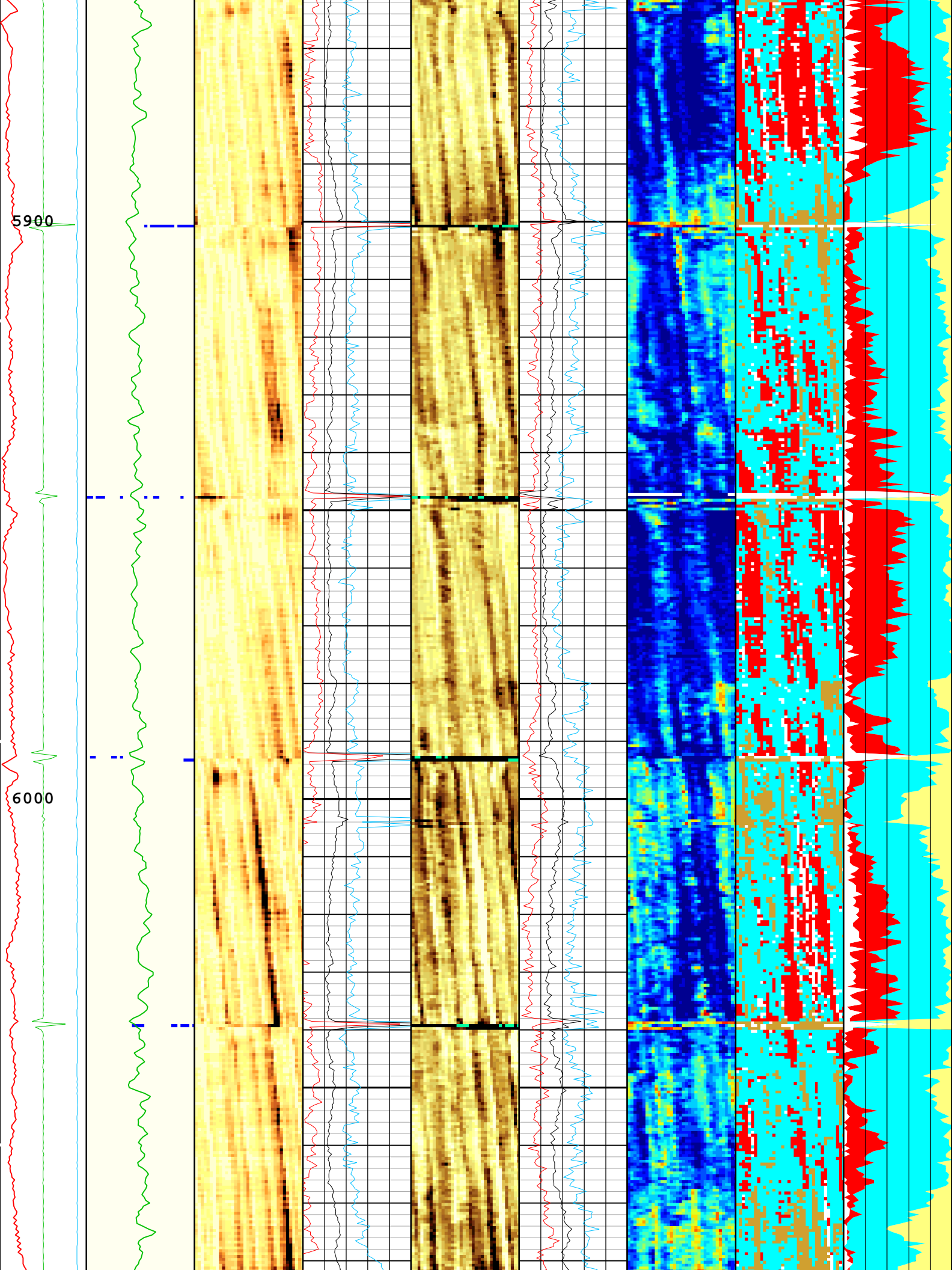


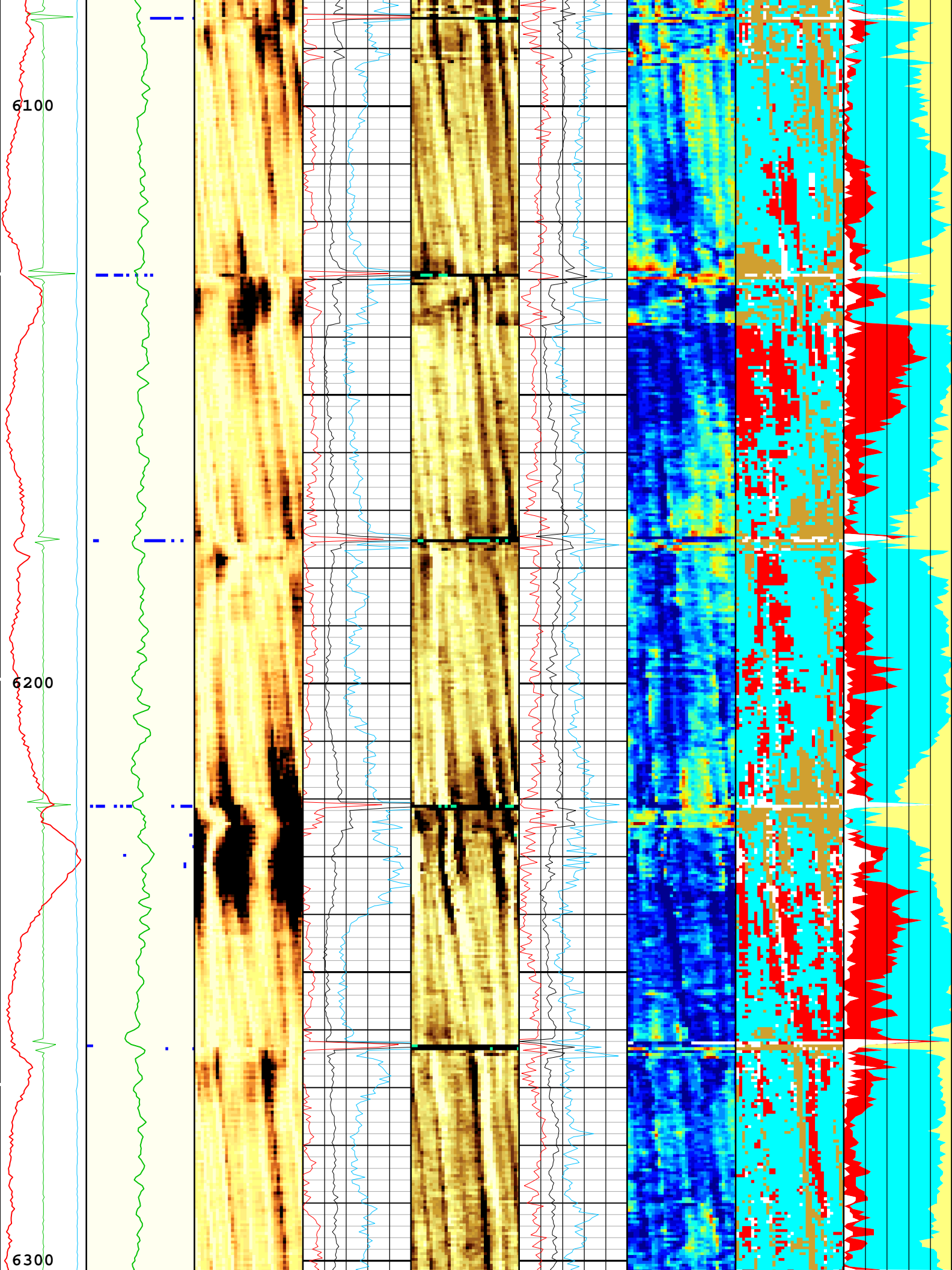


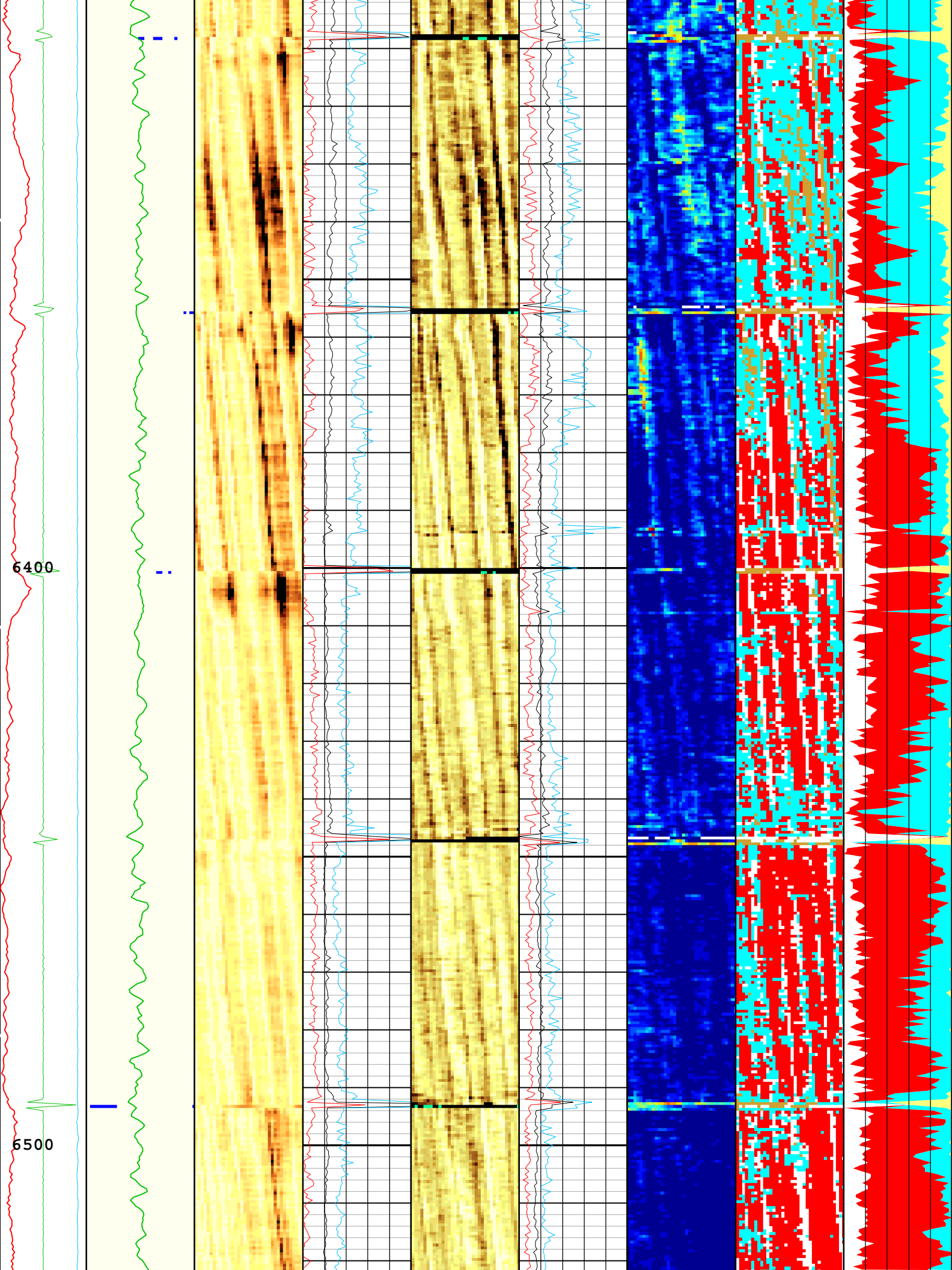


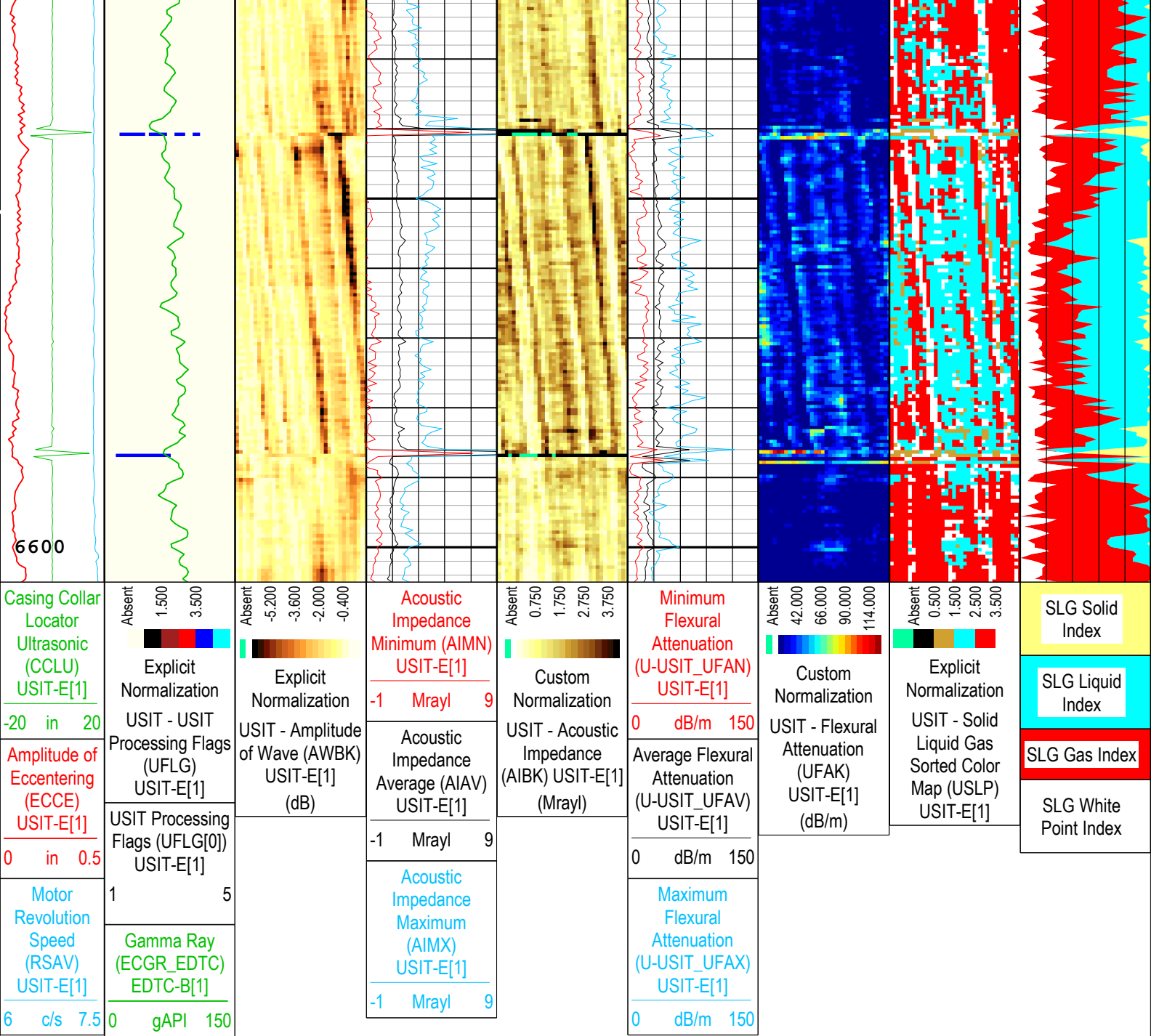












TIME\_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0] to UFLG[9]) USIT-E[1]

- |   |                           |
|---|---------------------------|
| 1 - UFLG 1 Value within [0.0 - 1.5] - :               | UTIM Error                |
| 2 - UFLG 2 Value within [1.5 - 2.5] - :               | Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - :               | WINLEN Error              |
| 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - : | Casing Thickness Error    |
| 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :  | Loop Processing Error     |

Description: USI IBC SLG    Format: Log ( IBC SLG )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 18-Oct-2018 18:49:34

| Channel Processing Parameters |                                      |          |       |      |
|-------------------------------|--------------------------------------|----------|-------|------|
| 1A: Parameters                |                                      |          |       |      |
| Parameter                     | Description                          | Tool     | Value | Unit |
| BARI(ISSBAR)                  | Barite Mud Presence Flag             | Borehole | No    |      |
| BERJ                          | Bad Echo Rejection                   | USIT-E   | On    |      |
| BHS                           | Borehole Status (Open or Cased Hole) | Borehole | Cased |      |

|                   |  |           |                        |         |
|-------------------|--|-----------|------------------------|---------|
| BS                | Bit Size   | WLSESSION | Depth Zoned            | in      |
| CASING_PRATIO     | Casing Poisson Ratio                                 | USIT-E    | Standard Poisson Ratio |         |
| CBLO              | Casing Bottom (Logger)                               | WLSESSION | 11878                  | ft      |
| CDEN              | Cement Density                                       | USIT-E    | 12.52                  | lbm/gal |
| CDEN              | Cement Density                                       | EDTC-B    | 16.69                  | lbm/gal |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E    | Light Cement           |         |
| DFD               | Drilling Fluid Density                               | Borehole  | 8.4                    | lbm/gal |
| DFT_CATEGORY      | Drilling Fluid Type                                  | Borehole  | Water                  |         |
| DTMD              | Borehole Fluid Slowness                              | Borehole  | 206                    | us/ft   |
| FD                | Fluid Density  | USIT-E    | 10                     | lbm/gal |
| FDII              | FPM Data Interpolation Interval                      | USIT-E    | 0                      | ft      |
| GCSE_DOWN_PASS    | Generalized Caliper Selection for WL Log Down Passes | Borehole  | BS(RT)                 |         |
| GCSE_UP_PASS      | Generalized Caliper Selection for WL Log Up Passes   | Borehole  | BS(RT)                 |         |
| GR_MULTIPLIER     | Gamma Ray Multiplier                                 | EDTC-B    | 1                      |         |
| HEMA              | Hematite Presence Flag                               | Borehole  | No                     |         |
| IBC_FRP_OFFSET    | IBC Flexural Offset from Free Pipe                   | USIT-E    | 4.54                   | dB/m    |
| IBC_FVEL_SEL      | IBC Fluid Velocity Selection                         | USIT-E    | Automatic              |         |
| IBC_OFFSET_SEL    | IBC Flexural Offset Selector                         | USIT-E    | UFAO                   |         |
| IBC_ZMUD_SEL      | IBC Mud Impedance Selection                          | USIT-E    | FreePipe Norm.         |         |
| ICE_PROCESS       | ICE Processing                                       | USIT-E    | Yes                    |         |
| IMAR              | Image Rotation                                       | USIT-E    | Off                    |         |
| MEAS_WLEN         | Tcube Processing Window Length in Measurement Mode   | USIT-E    | 22.44                  | us      |
| MUD_N_FRP         | Free Pipe Mud Normalization Factor                   | USIT-E    | 1.23                   |         |
| MUD_N_THE         | Theoretical Mud Normalization Factor                 | USIT-E    | 1.15                   |         |
| RCOD              | Reference Calibrator Outer Diameter                  | USIT-E    | 4.5                    | in      |
| RCSO              | Reference Calibrator Standoff                        | USIT-E    | 0.842                  | in      |
| RCTH              | Reference Calibrator Thickness                       | USIT-E    | 0.216                  | in      |
| SOCN              | Standoff Distance                                    | EDTC-B    | 0.125                  | in      |
| SOCO              | Standoff Correction Option                           | EDTC-B    | No                     |         |
| THDH              | Maximum Search Thickness (percentage of nominal)     | USIT-E    | 130                    | %       |
| THDL              | Minimum Search Thickness (percentage of nominal)     | USIT-E    | 70                     | %       |
| TPOS_EDTC         | Tool Position: Centered or Eccentered                | EDTC-B    | Eccentered             |         |
| U-USIT_DFSZ       | Drilling Fluid Specific Acoustic Impedance           | USIT-E    | 1.75                   | Mrayl   |
| U-USIT_UFAO       | SIT Flexural Attenuation Offset                      | USIT-E    | 7                      | dB/m    |
| U-USIT_UIAP       | IBC Answer Product Enabled                           | USIT-E    | SolidLiquidGasMap      |         |
| USI_RPLUS         | Ultrasonic R+ Processing                             | USIT-E    | No                     |         |
| THDP              | Thickness Detection Policy                           | USIT-E    | Fundamental            |         |
| VCAS              | Ultrasonic Transversal Velocity in Casing            | USIT-E    | 51.4                   | us/ft   |
| ZCAS              | Acoustic Impedance of Casing                         | USIT-E    | 46.25                  | Mrayl   |
| ZINI              | Initial Estimate of Cement Impedance                 | USIT-E    | -1                     | Mrayl   |
| ZMUD              | Acoustic Impedance of Mud                            | Borehole  | 1.75                   | Mrayl   |
| ZTCM              | Acoustic Impedance Threshold for Cement              | USIT-E    | 2.2                    | Mrayl   |
| ZTGS              | Acoustic Impedance Threshold for Gas                 | USIT-E    | 0.3                    | Mrayl   |

| 1ADepth Zoned Parameters |       |              |             |
|--------------------------|-------|--------------|-------------|
| Parameter                | Value | Start ( ft ) | Stop ( ft ) |
| BS                       | 13.5  | 2            | 2426        |
| BS                       | 8.5   | 2426         | 6605        |
| All depth are actual.    |       |              |             |

| 1B: Parameters |  |  |  |  |
|----------------|--|--|--|--|
|                |  |  |  |  |

| Parameter         | Description  | Tool      | Value                  | Unit    |
|-------------------|--|-----------|------------------------|---------|
| BARI(ISSBAR)      | Barite Mud Presence Flag                             | Borehole  | No                     |         |
| BERJ              | Bad Echo Rejection                                   | USIT-E    | On                     |         |
| BHS               | Borehole Status (Open or Cased Hole)                 | Borehole  | Cased                  |         |
| BS                | Bit Size   | WLSESSION | 8.5                    | in      |
| CASING_PRATIO     | Casing Poisson Ratio                                 | USIT-E    | Standard Poisson Ratio |         |
| CBLO              | Casing Bottom (Logger)                               | WLSESSION | 11878                  | ft      |
| CDEN              | Cement Density                                       | USIT-E    | 0                      | lbm/gal |
| CDEN              | Cement Density                                       | EDTC-B    | 16.69                  | lbm/gal |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E    | Light Cement           |         |
| DFD               | Drilling Fluid Density                               | Borehole  | 8.4                    | lbm/gal |
| DFT_CATEGORY      | Drilling Fluid Type                                  | Borehole  | Water                  |         |
| DTMD              | Borehole Fluid Slowness                              | Borehole  | 206                    | us/ft   |
| FD                | Fluid Density  | USIT-E    | 10                     | lbm/gal |
| FDII              | FPM Data Interpolation Interval                      | USIT-E    | 0                      | ft      |
| GCSE_DOWN_PASS    | Generalized Caliper Selection for WL Log Down Passes | Borehole  | BS(RT)                 |         |
| GCSE_UP_PASS      | Generalized Caliper Selection for WL Log Up Passes   | Borehole  | BS(RT)                 |         |
| GR_MULTIPLIER     | Gamma Ray Multiplier                                 | EDTC-B    | 1                      |         |
| HEMA              | Hematite Presence Flag                               | Borehole  | No                     |         |
| IBC_FRP_OFFSET    | IBC Flexural Offset from Free Pipe                   | USIT-E    | -23.64                 | dB/m    |
| IBC_FVEL_SEL      | IBC Fluid Velocity Selection                         | USIT-E    | Automatic              |         |
| IBC_OFFSET_SEL    | IBC Flexural Offset Selector                         | USIT-E    | UFAO                   |         |
| IBC_ZMUD_SEL      | IBC Mud Impedance Selection                          | USIT-E    | FreePipe Norm.         |         |
| ICE_PROCESS       | ICE Processing                                       | USIT-E    | Yes                    |         |
| IMAR              | Image Rotation                                       | USIT-E    | Off                    |         |
| MEAS_WLEN         | Tcube Processing Window Length in Measurement Mode   | USIT-E    | 22.44                  | us      |
| MUD_N_FRP         | Free Pipe Mud Normalization Factor                   | USIT-E    | 1.17                   |         |
| MUD_N_THE         | Theoretical Mud Normalization Factor                 | USIT-E    | 1.15                   |         |
| RCOD              | Reference Calibrator Outer Diameter                  | USIT-E    | 4.5                    | in      |
| RCSO              | Reference Calibrator Standoff                        | USIT-E    | 0.842                  | in      |
| RCTH              | Reference Calibrator Thickness                       | USIT-E    | 0.216                  | in      |
| SOCN              | Standoff Distance                                    | EDTC-B    | 0.125                  | in      |
| SOCO              | Standoff Correction Option                           | EDTC-B    | No                     |         |
| THDH              | Maximum Search Thickness (percentage of nominal)     | USIT-E    | 130                    | %       |
| THDL              | Minimum Search Thickness (percentage of nominal)     | USIT-E    | 70                     | %       |
| TPOS_EDTC         | Tool Position: Centered or Eccentered                | EDTC-B    | Eccentered             |         |
| U-USIT_DFSZ       | Drilling Fluid Specific Acoustic Impedance           | USIT-E    | 1.75                   | Mrayl   |
| U-USIT_UFAO       | SIT Flexural Attenuation Offset                      | USIT-E    | -33.39                 | dB/m    |
| U-USIT_UIAP       | IBC Answer Product Enabled                           | USIT-E    | SolidLiquidGasMap      |         |
| USI_RPLUS         | Ultrasonic R+ Processing                             | USIT-E    | No                     |         |
| THDP              | Thickness Detection Policy                           | USIT-E    | Fundamental            |         |
| VCAS              | Ultrasonic Transversal Velocity in Casing            | USIT-E    | 51.4                   | us/ft   |
| ZCAS              | Acoustic Impedance of Casing                         | USIT-E    | 46.25                  | Mrayl   |
| ZINI              | Initial Estimate of Cement Impedance                 | USIT-E    | -1                     | Mrayl   |
| ZMUD              | Acoustic Impedance of Mud                            | Borehole  | 1.75                   | Mrayl   |
| ZTCM              | Acoustic Impedance Threshold for Cement              | USIT-E    | 2.2                    | Mrayl   |
| ZTGS              | Acoustic Impedance Threshold for Gas                 | USIT-E    | 0.3                    | Mrayl   |

Tool Control Parameters

1A: Parameters

|           |             |      |       |      |
|-----------|-------------|------|-------|------|
| Parameter | Description | Tool | Value | Unit |
|-----------|-------------|------|-------|------|



| Parameter     | Description                                | Tool   | Value            | Unit |
|---------------|--|--------|------------------|------|
| AGMN          | Minimum Gain of Cartridge                  | USIT-E | -12              | dB   |
| AGMX          | Maximum Gain of Cartridge                  | USIT-E | 20               | dB   |
| U-USIT_DDT5   | USIC Downhole Decimation for T5 only       | USIT-E | 0_NONE           |      |
| DOT(DOS)      | Distance between Opposite Transducer Faces | USIT-E | 1.756            | in   |
| EMXV          | EMEX Voltage                               | USIT-E | 50               | V    |
| HRES          | Horizontal Resolution                      | USIT-E | 10 deg           |      |
| IBC_ACQTYPE   | IBC Acquisition type                       | USIT-E | 1 MHz            |      |
| IBC_FLEXDBP   | IBC Flex Duration Before Peak              | USIT-E | 30               | us   |
| ICE2_ACQ      | Ultrasonic ICE2 Acquisition                | USIT-E | Yes              |      |
| MOTOR_PROTECT | Motor Protection                           | USIT-E | On               |      |
| UACLV_PERM    | Ultrasonic ACLV Permanent                  | USIT-E | Yes              |      |
| U-USIT_UFWB   | Far Receiver Window Begin Time             | USIT-E | Time Zoned       | us   |
| U-USIT_UFWE   | Far Receiver Window End Time               | USIT-E | Time Zoned       | us   |
| U-USIT_UNWB   | Near Receiver Window Begin Time            | USIT-E | Time Zoned       | us   |
| U-USIT_UNWE   | Near Receiver Window End Time              | USIT-E | Time Zoned       | us   |
| USFR          | Ultrasonic Sampling Frequency              | USIT-E | 666667           | Hz   |
| UPAT          | USIT Emission Pattern                      | USIT-E | Pattern 375 KHz  |      |
| UWKM          | USIT Working Mode                          | USIT-E | 10 deg at 6.0 in |      |
| USSP          | Ultrasonic Service                         | USIT-E | IBC              |      |
| U-USIT_UTAN   | Transducer Angles                          | USIT-E | 33_DEG           |      |
| VRES          | Vertical Resolution                        | USIT-E | 6.0 in           |      |
| WINB          | Window Begin Time                          | USIT-E | 31.88            | us   |
| WINE          | Window End Time                            | USIT-E | 71.88            | us   |

## 1A Time Zoned Parameters

### Pass Log[3]:Up

| Parameter   | Value  | Start Time           | Stop Time            | Start Depth ( ft ) | Stop Depth ( ft ) |
|-------------|--------|----------------------|----------------------|--------------------|-------------------|
| U-USIT_UFWB | 137    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:42:07 | 6751.53            | 6368.52           |
| U-USIT_UFWB | 132.55 | 18-Oct-2018 09:42:07 | 18-Oct-2018 11:16:16 | 6368.52            | 23.56             |
| U-USIT_UFWE | 177    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:42:11 | 6751.53            | 6363.22           |
| U-USIT_UFWE | 170.61 | 18-Oct-2018 09:42:11 | 18-Oct-2018 11:16:16 | 6363.22            | 23.56             |
| U-USIT_UNWB | 106    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:40:52 | 6751.53            | 6455.47           |
| U-USIT_UNWB | 99.26  | 18-Oct-2018 09:40:52 | 18-Oct-2018 11:16:16 | 6455.47            | 23.56             |
| U-USIT_UNWE | 146    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:41:01 | 6751.53            | 6444.95           |
| U-USIT_UNWE | 141.12 | 18-Oct-2018 09:41:01 | 18-Oct-2018 11:16:16 | 6444.95            | 23.56             |

All depth are at tool zero.

## 1B: Parameters

| Parameter     | Description                                | Tool   | Value      | Unit |
|---------------|--|--------|------------|------|
| AGMN          | Minimum Gain of Cartridge                  | USIT-E | -12        | dB   |
| AGMX          | Maximum Gain of Cartridge                  | USIT-E | 48         | dB   |
| U-USIT_DDT5   | USIC Downhole Decimation for T5 only       | USIT-E | 0_NONE     |      |
| DOT(DOS)      | Distance between Opposite Transducer Faces | USIT-E | 1.756      | in   |
| EMXV          | EMEX Voltage                               | USIT-E | Time Zoned | V    |
| HRES          | Horizontal Resolution                      | USIT-E | 10 deg     |      |
| IBC_ACQTYPE   | IBC Acquisition type                       | USIT-E | 1 MHz      |      |
| IBC_FLEXDBP   | IBC Flex Duration Before Peak              | USIT-E | 30         | us   |
| ICE2_ACQ      | Ultrasonic ICE2 Acquisition                | USIT-E | Yes        |      |
| MOTOR_PROTECT | Motor Protection                           | USIT-E | On         |      |

|             |                                 |        |                  |    |
|-------------|---------------------------------|--------|------------------|----|
| UACLV_PERM  | Ultrasonic ACLV Permanent       | USIT-E | Yes              |    |
| U-USIT_UFWB | Far Receiver Window Begin Time  | USIT-E | 137              | us |
| U-USIT_UFWE | Far Receiver Window End Time    | USIT-E | 177              | us |
| U-USIT_UNWB | Near Receiver Window Begin Time | USIT-E | 106              | us |
| U-USIT_UNWE | Near Receiver Window End Time   | USIT-E | 146              | us |
| USFR        | Ultrasonic Sampling Frequency   | USIT-E | 666667           | Hz |
| UPAT        | USIT Emission Pattern           | USIT-E | Pattern 375 KHz  |    |
| UWKM        | USIT Working Mode               | USIT-E | 10 deg at 6.0 in |    |
| USSP        | Ultrasonic Service              | USIT-E | IBC              |    |
| U-USIT_UTAN | Transducer Angles               | USIT-E | 33_DEG           |    |
| VRES        | Vertical Resolution             | USIT-E | 6.0 in           |    |
| WINB        | Window Begin Time               | USIT-E | 31.88            | us |
| WINE        | Window End Time                 | USIT-E | 71.88            | us |

1BTime Zoned Parameters

| Pass Log[2]:Up              |       |                      |                      |                    |                   |
|-----------------------------|-------|----------------------|----------------------|--------------------|-------------------|
| Parameter                   | Value | Start Time           | Stop Time            | Start Depth ( ft ) | Stop Depth ( ft ) |
| EMXV                        | 60    | 18-Oct-2018 12:36:52 | 18-Oct-2018 12:37:32 | 6605.87            | 6584.79           |
| EMXV                        | 70    | 18-Oct-2018 12:37:32 | 18-Oct-2018 12:44:11 | 6584.79            | 6115.98           |
| EMXV                        | 75    | 18-Oct-2018 12:44:11 | 18-Oct-2018 12:46:27 | 6115.98            | 5956.64           |
| EMXV                        | 70    | 18-Oct-2018 12:46:27 | 18-Oct-2018 12:55:00 | 5956.64            | 5340.68           |
| EMXV                        | 65    | 18-Oct-2018 12:55:00 | 18-Oct-2018 13:00:38 | 5340.68            | 5229.87           |
| All depth are at tool zero. |       |                      |                      |                    |                   |

main

IBC SLG Composite 0 PSI

| Composite Summary                            |                |           |            |            |                         |                         |          |             |                       |
|--|----------------|-----------|------------|------------|-------------------------|-------------------------|----------|-------------|-----------------------|
| Run Name                                     | Pass Objective | Direction | Top        | Bottom     | Start                   | Stop                    | DSC Mode | Depth Shift | Include Parallel Data |
| 1A   | Log[3]:Up      | Up        | 23.56 ft   | 6751.53 ft | 18-Oct-2018 9:34:10 AM  | 18-Oct-2018 11:16:16 AM | ON       | 5.11 ft     | Yes                   |
| 1B   | Log[2]:Up      | Up        | 4937.78 ft | 6606.03 ft | 18-Oct-2018 12:36:52 PM | 18-Oct-2018 1:00:38 PM  | ON       | 5.11 ft     | Yes                   |
| All depths are referenced to toolstring zero |                |           |            |            |                         |                         |          |             |                       |

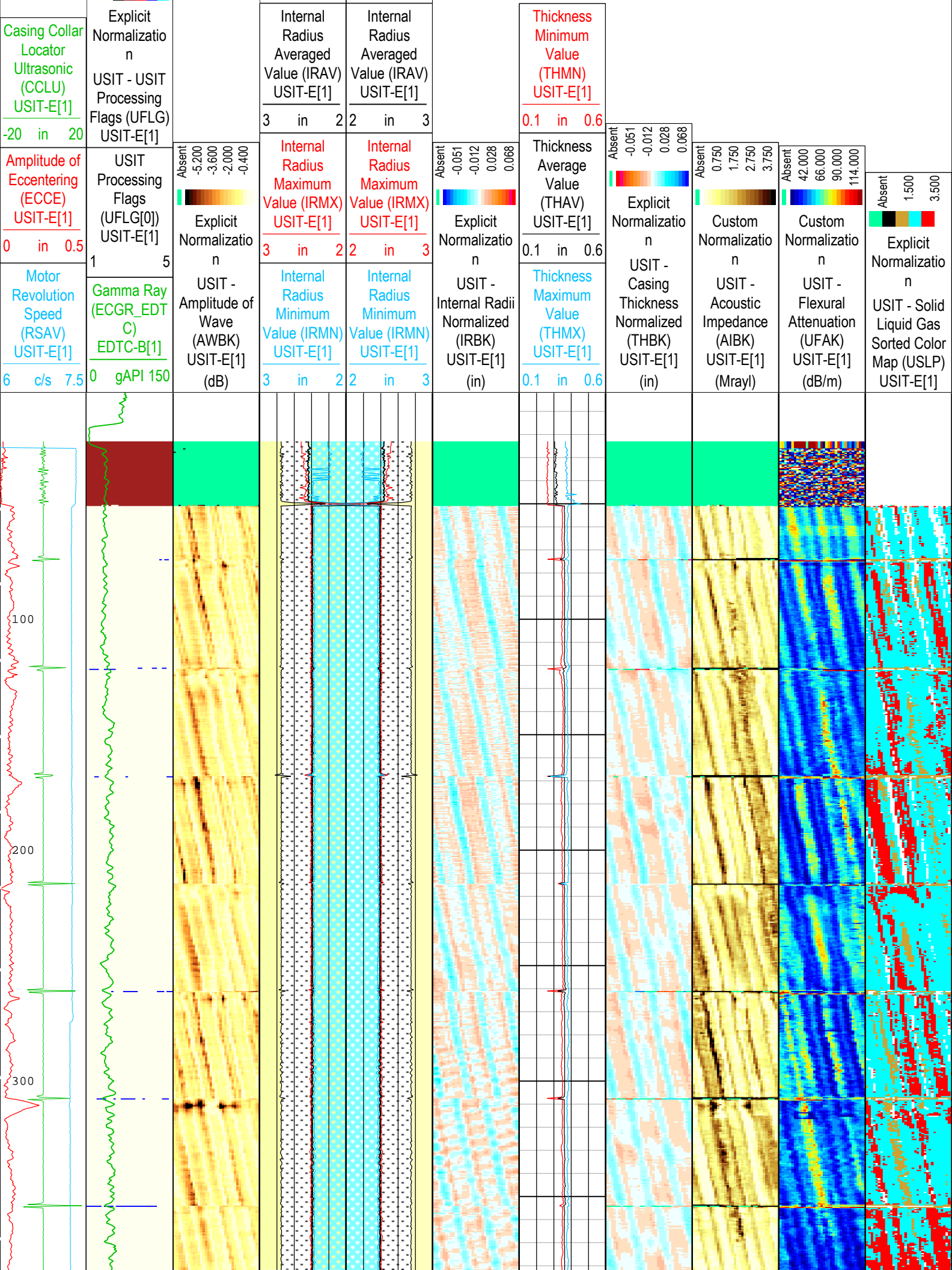
|     |   |                      |
|-----|---|----------------------|
| Log | Company:Crestone Peak Resources Operating LLC | Well:Sam 3J-25H-M166 |
|     |   | main:S004            |

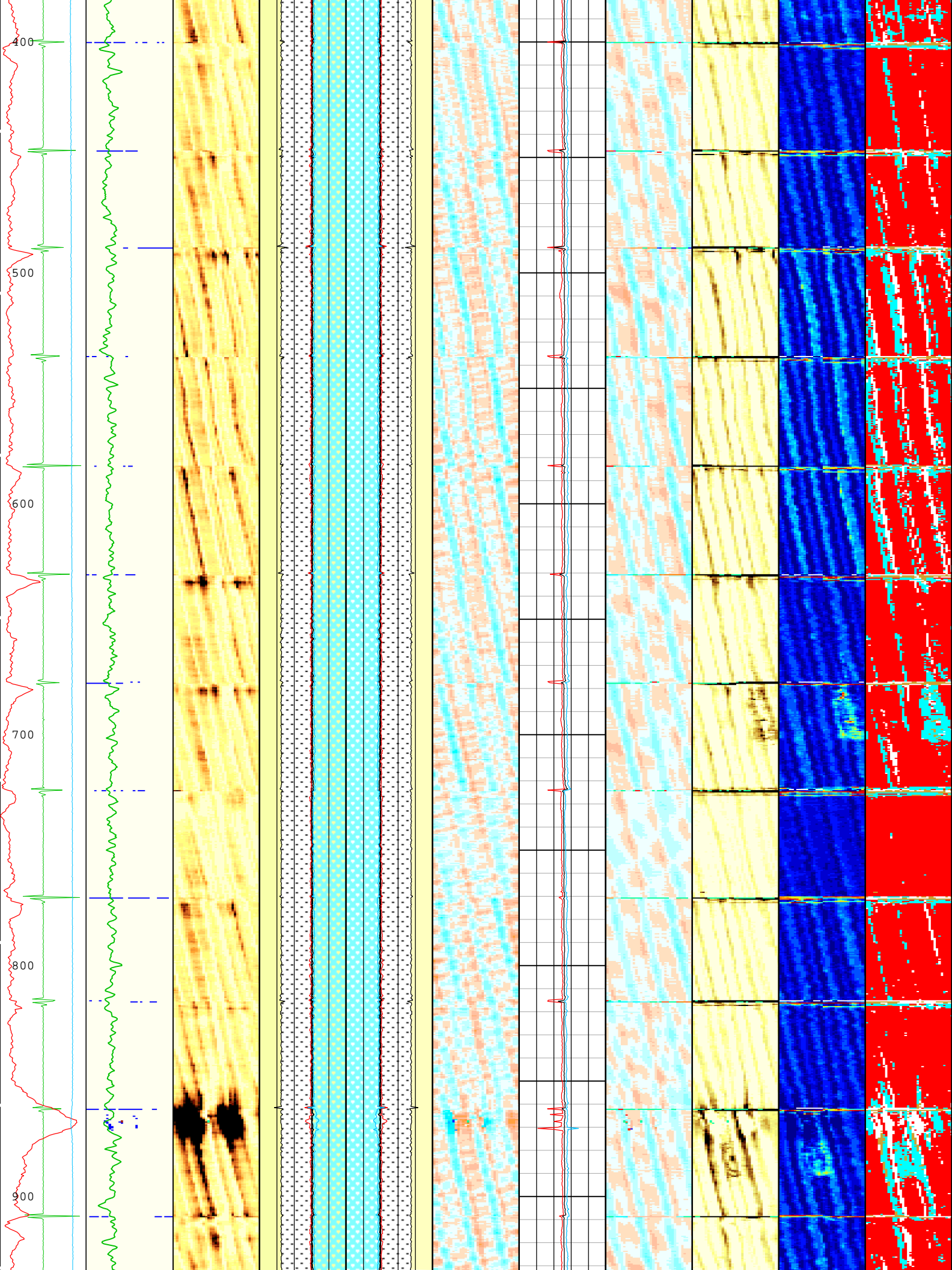
Description: USI IBC SLG Composite
Format: Log ( IBC SLG Composite )
Index Scale: 2 in per 100 ft
Index Unit: ft
Index Type: Measured Depth
Creation Date: 18-Oct-2018 18:50:25

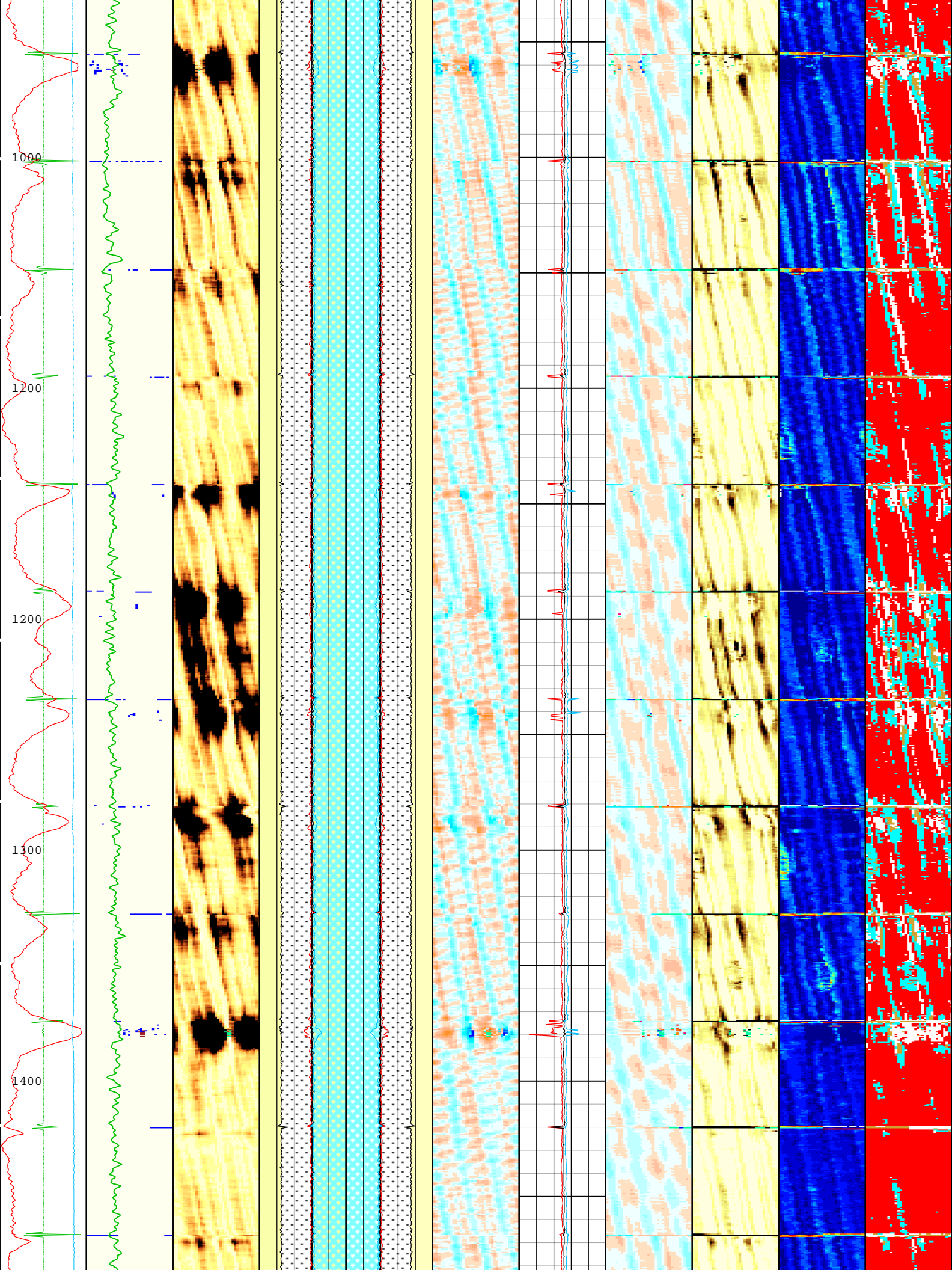
|  |                                       |
|--|---------------------------------------|
| USIT Processing Flags (UFLG[0]) USIT-E[1]                      |                                       |
| 1 - UFLG 1 Value within [0.0 - 1.5] - :                        | <div></div> UTIM Error                |
| 2 - UFLG 2 Value within [1.5 - 2.5] - :                        | <div></div> Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - :                        | <div></div> WINLEN Error              |
| 4 - UFLG 4    UFLG 5    UFLG 6    Value within [3.5 - 6.5] - : | <div></div> Casing Thickness Error    |
| 5 - UFLG 7    UFLG 8    UFLG 9    Value within [6.5 - 10 ] - : | <div></div> Loop Processing Error     |

|  |  |   |   |                  |                  |
|--|--|---|---|------------------|------------------|
| TIME_1900 - Time Marked every 60.00 (s)  |  |   |   |                  |                  |
| <div> <div> <div>Absent</div> <div>1.500</div> <div>3.500</div> <div></div> </div> <div> <div></div> <div></div> <div></div> <div></div> </div> </div> | <table> <tr> <td>External Radii Average (ERAV) USIT-E[1]</td><td>External Radii Average (ERAV) USIT-E[1]</td></tr> <tr> <td>3        in    2</td><td>2        in    3</td></tr> </table> | External Radii Average (ERAV) USIT-E[1] | External Radii Average (ERAV) USIT-E[1] | 3        in    2 | 2        in    3 |
| External Radii Average (ERAV) USIT-E[1]  | External Radii Average (ERAV) USIT-E[1]  |   |   |                  |                  |
| 3        in    2   | 2        in    3   |   |   |                  |                  |

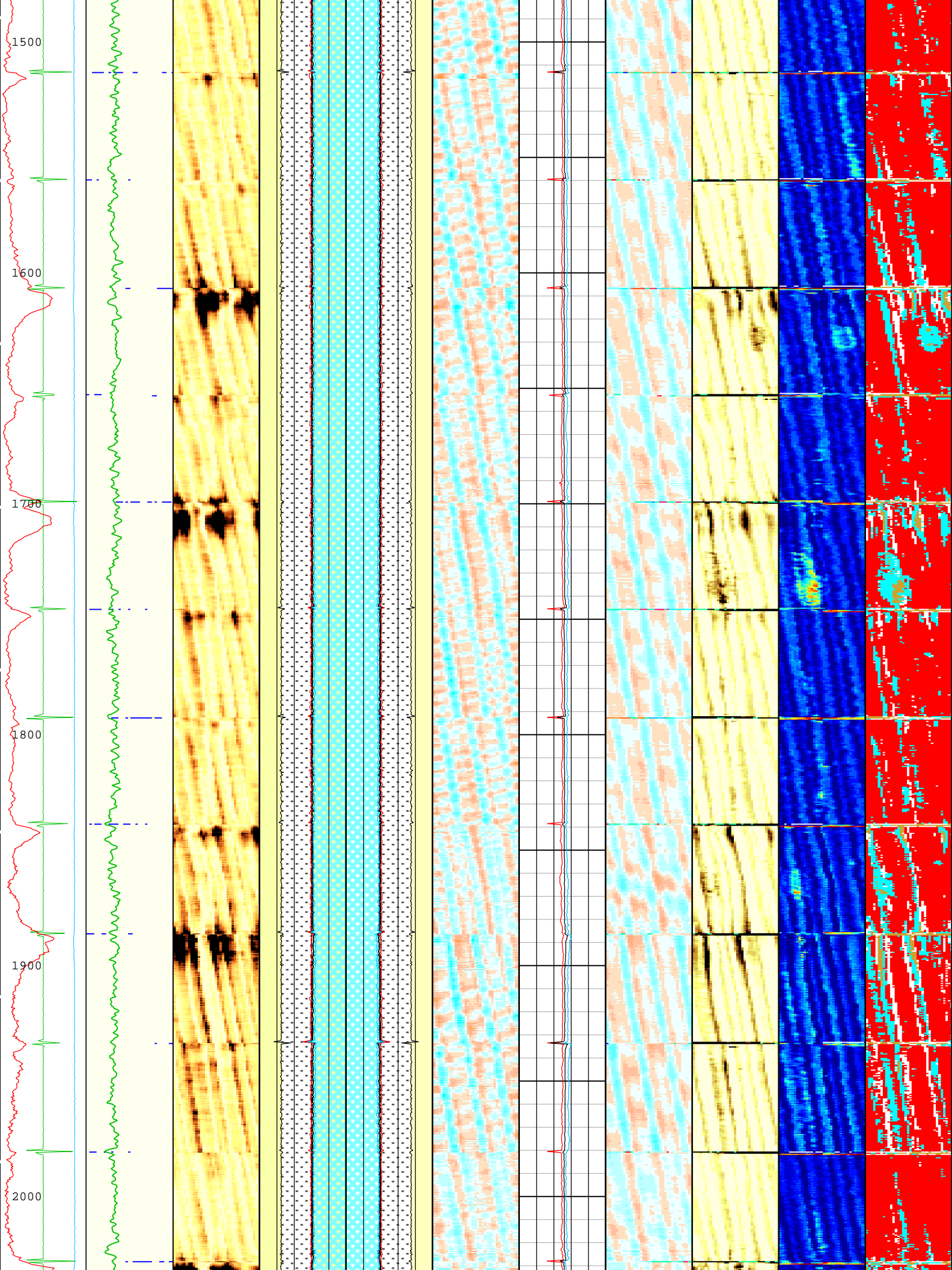


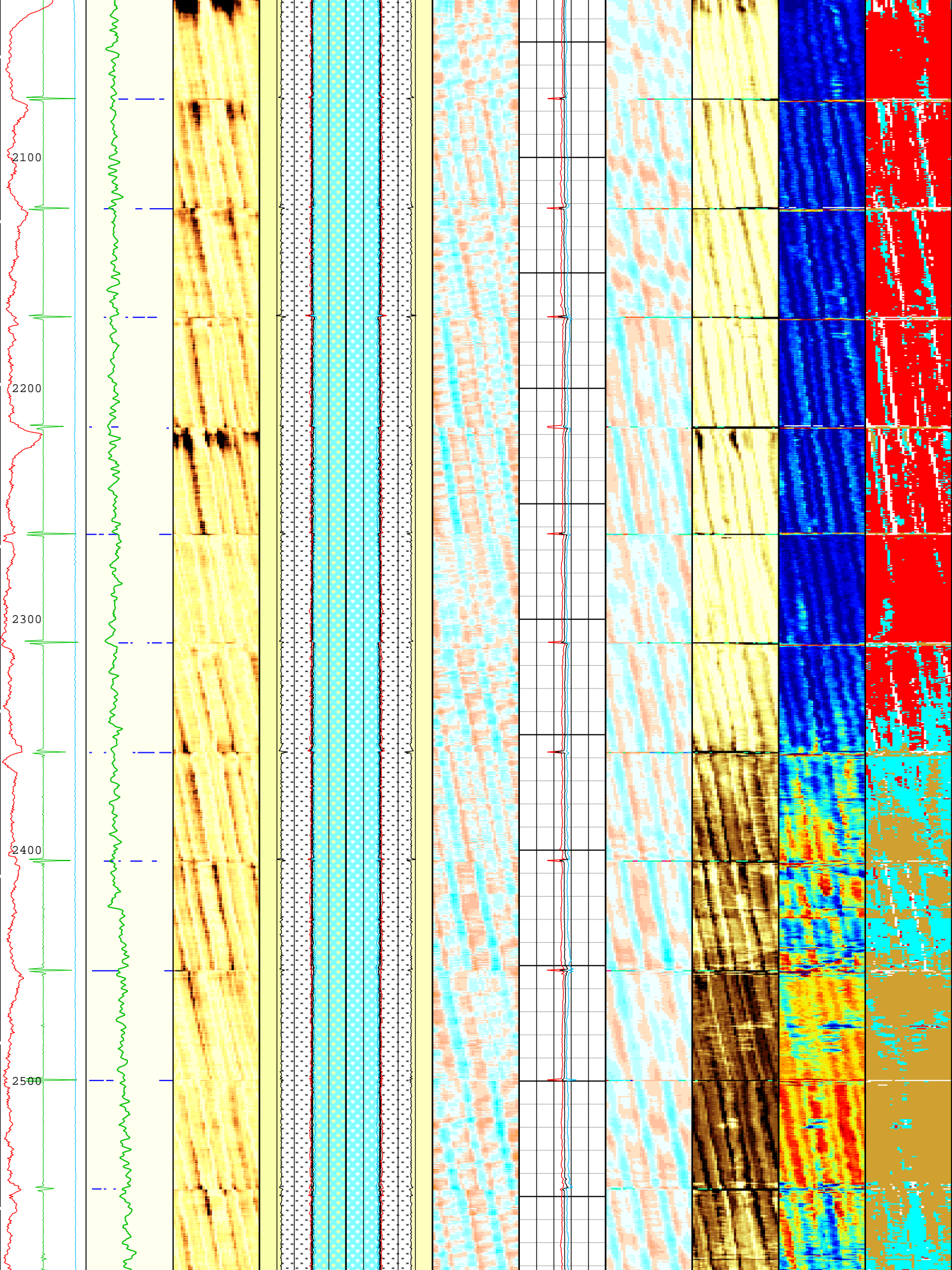




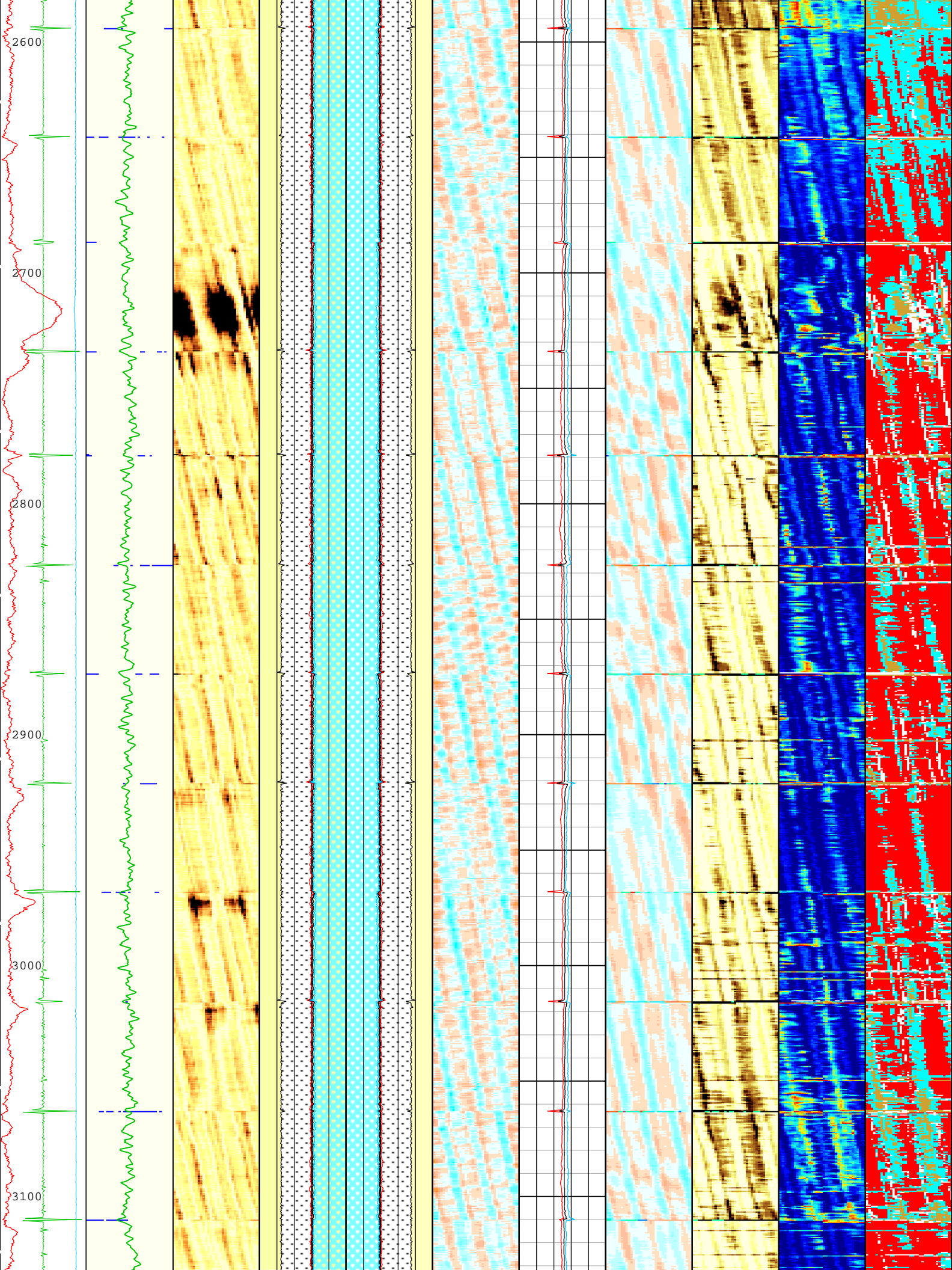




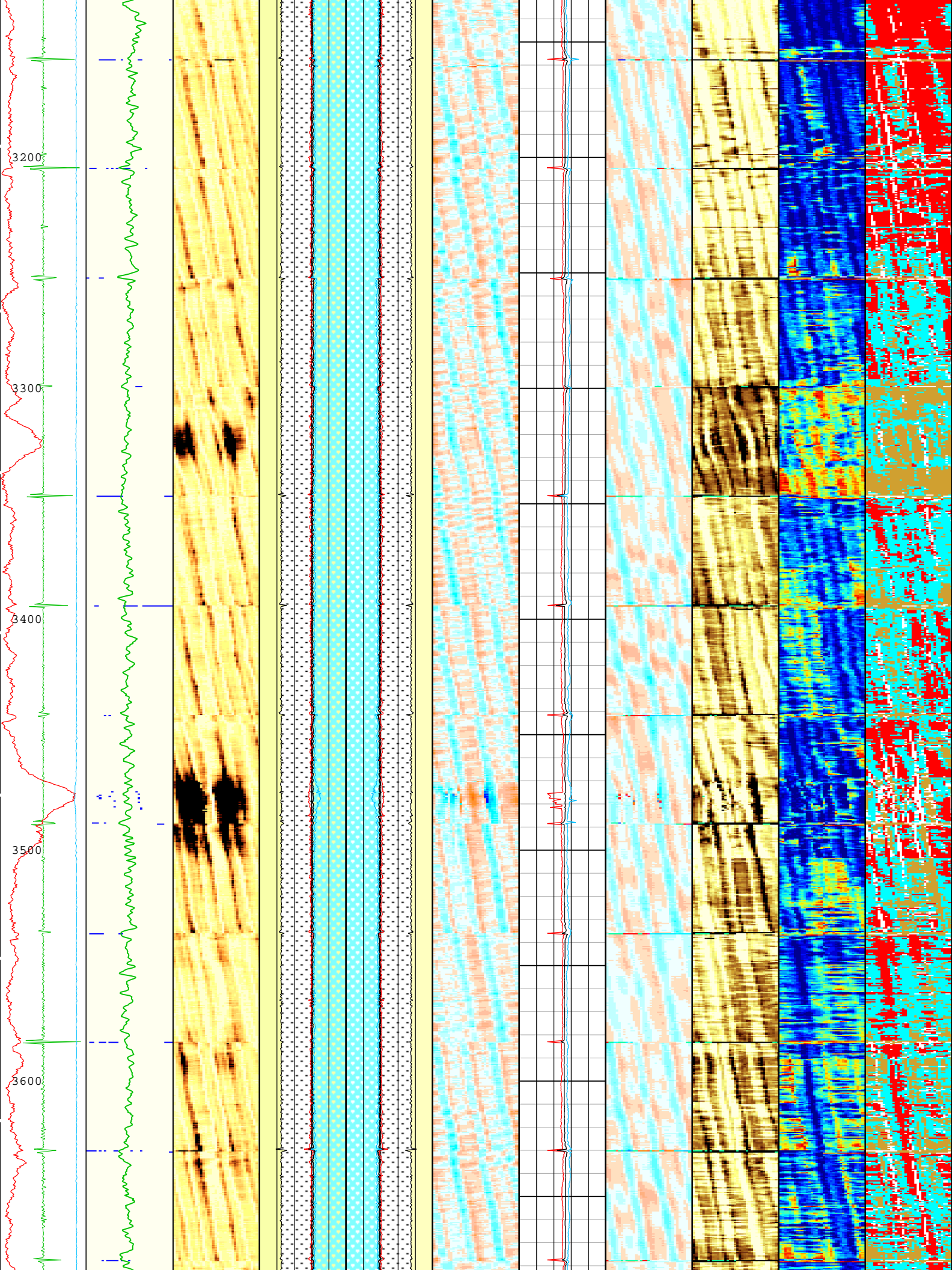


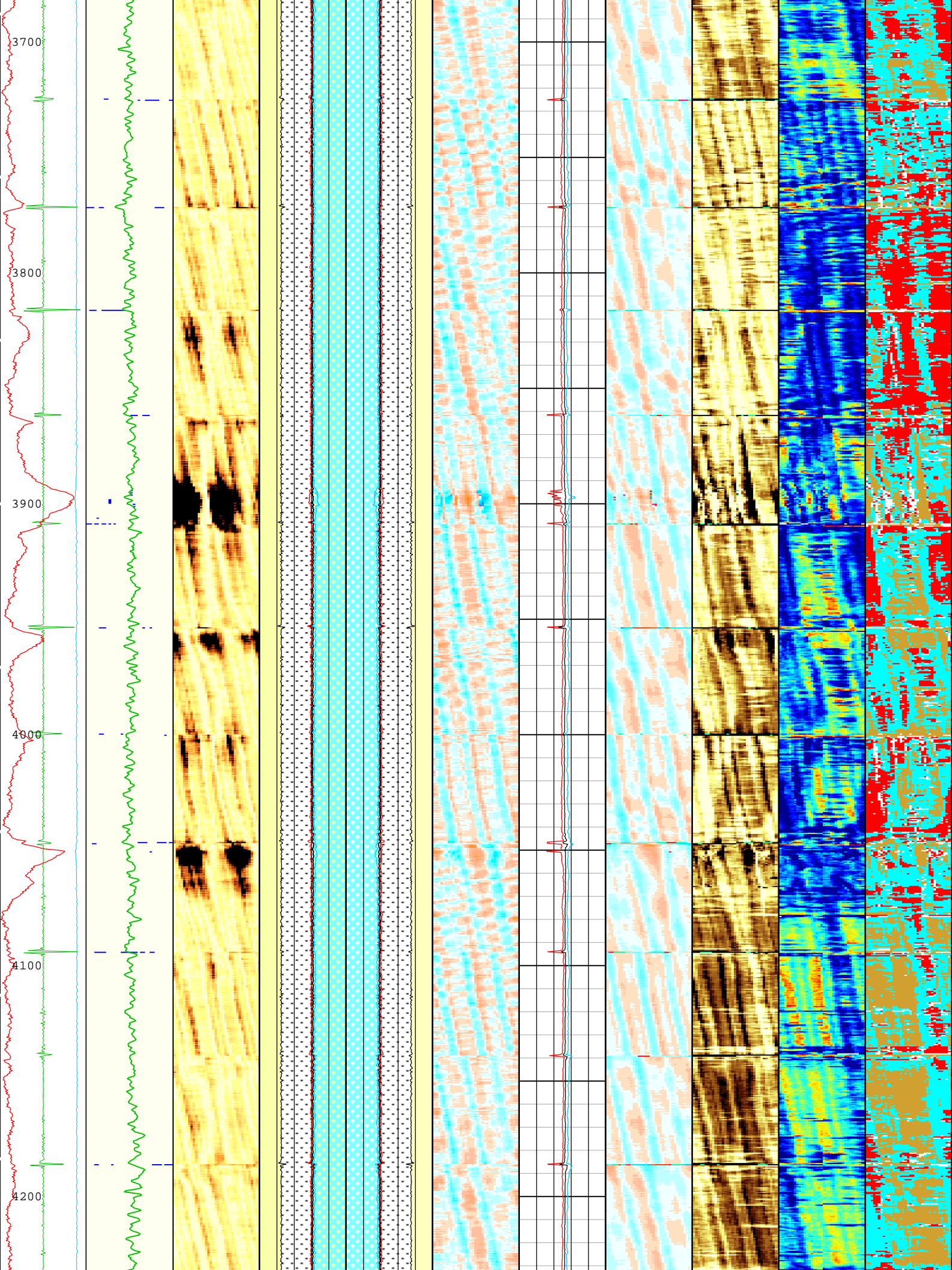




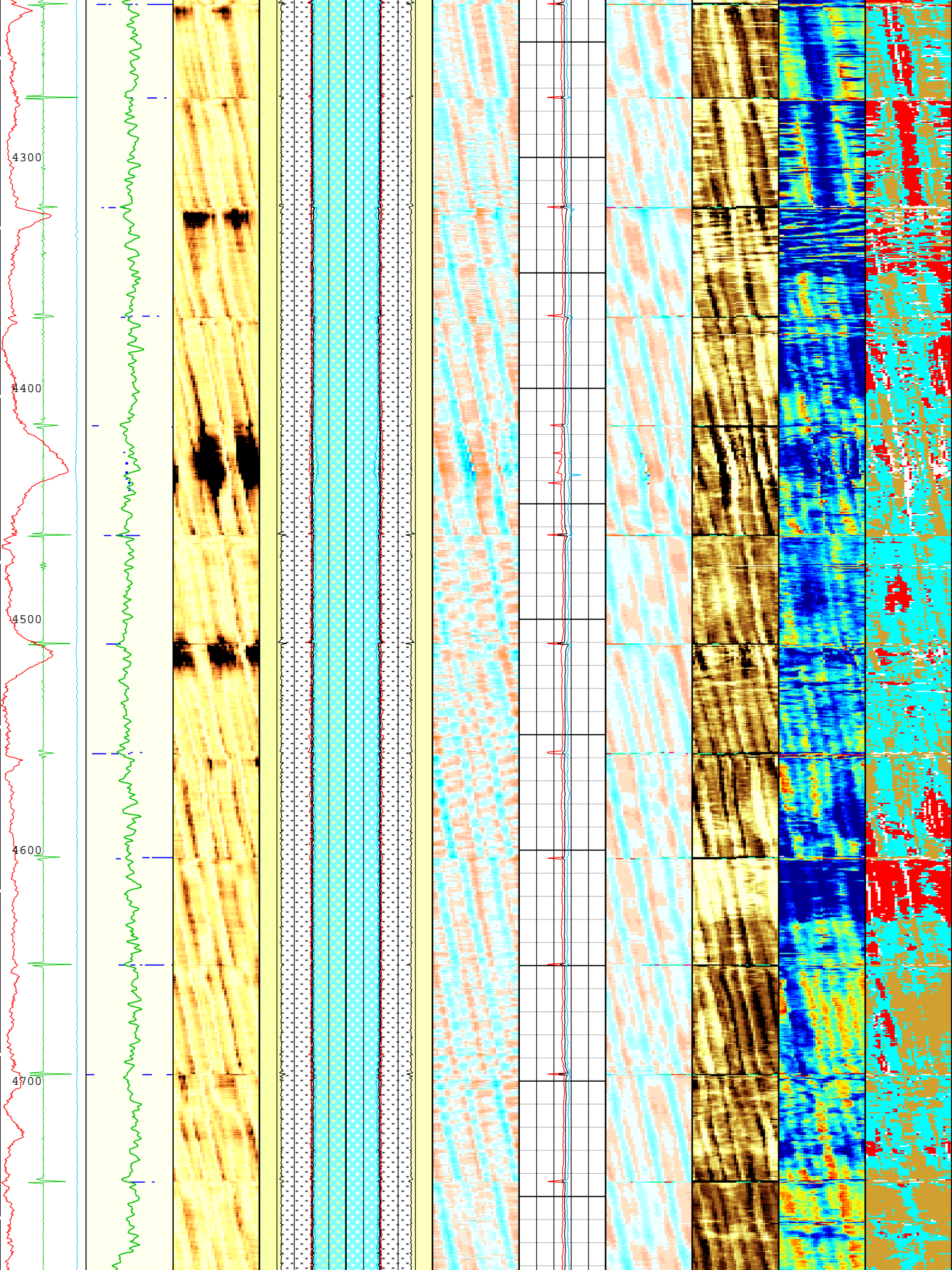


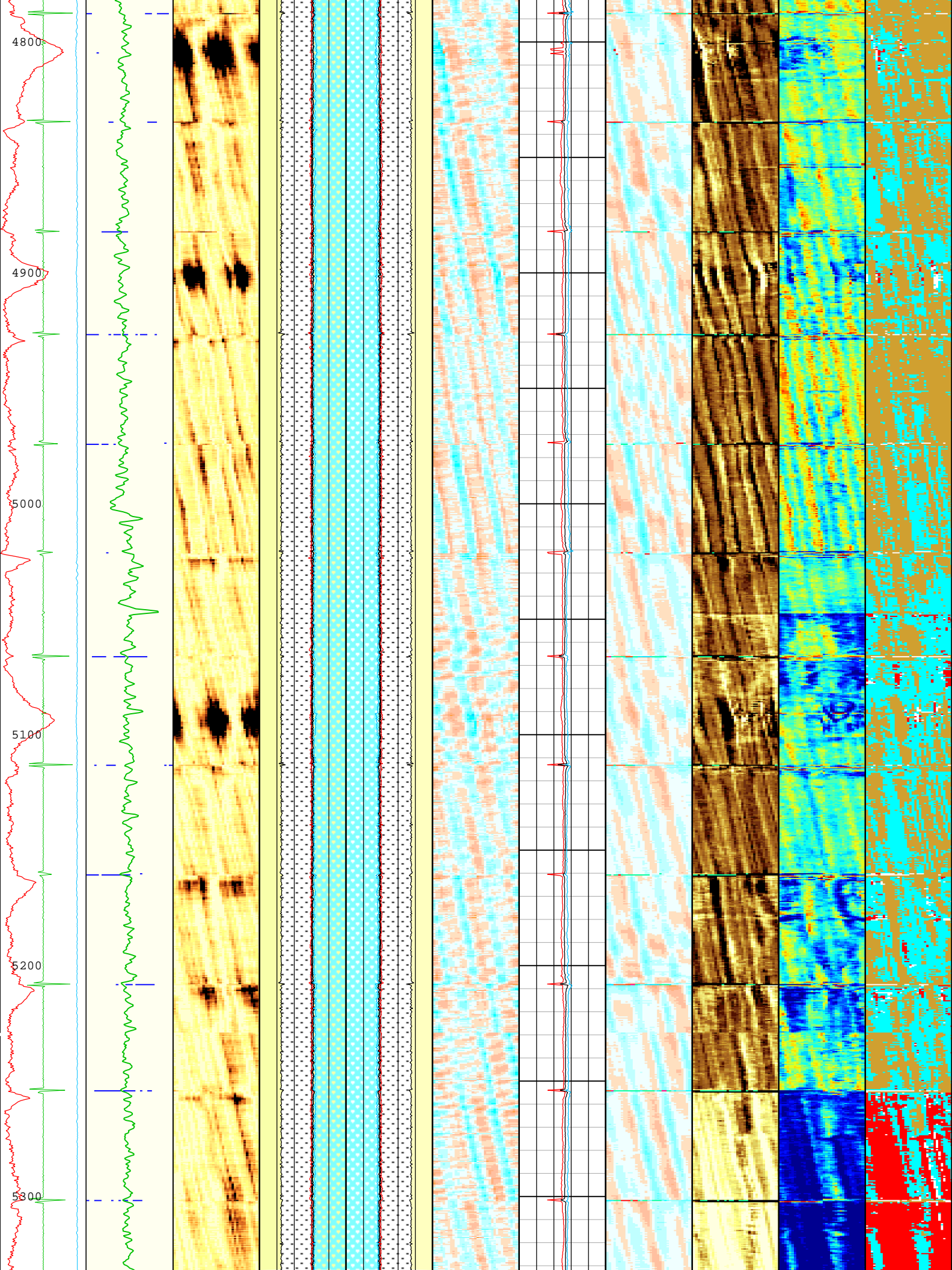




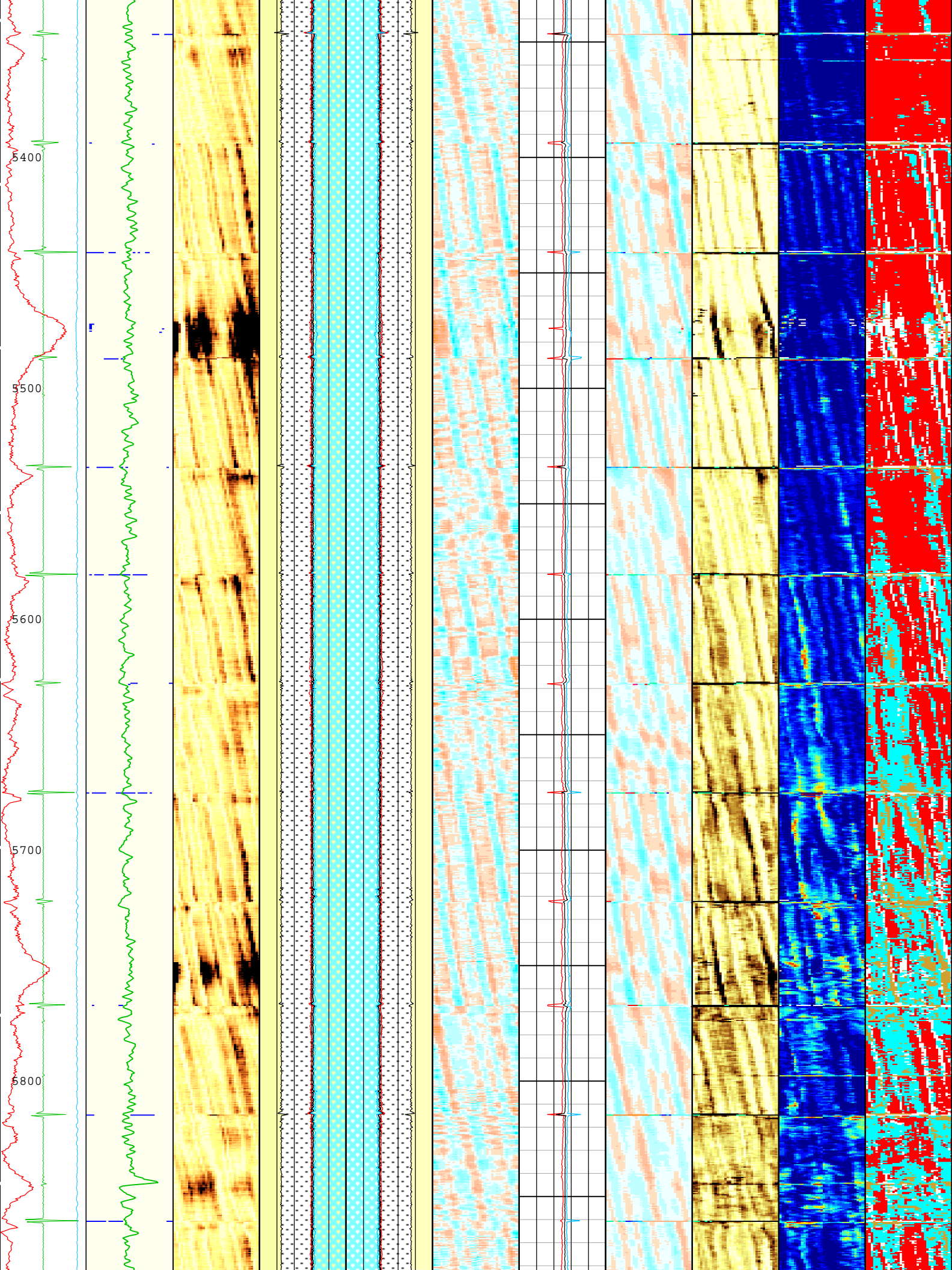


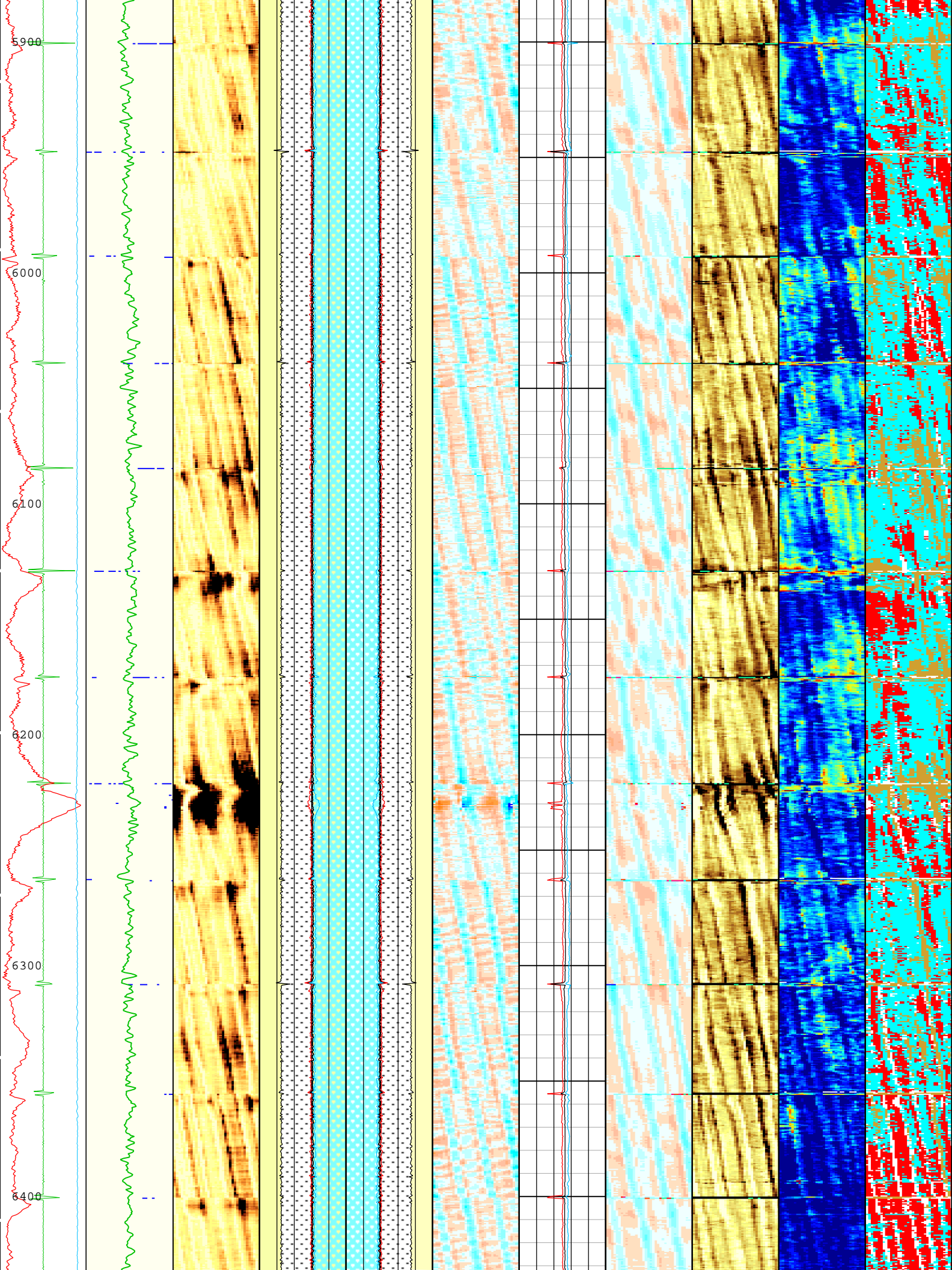




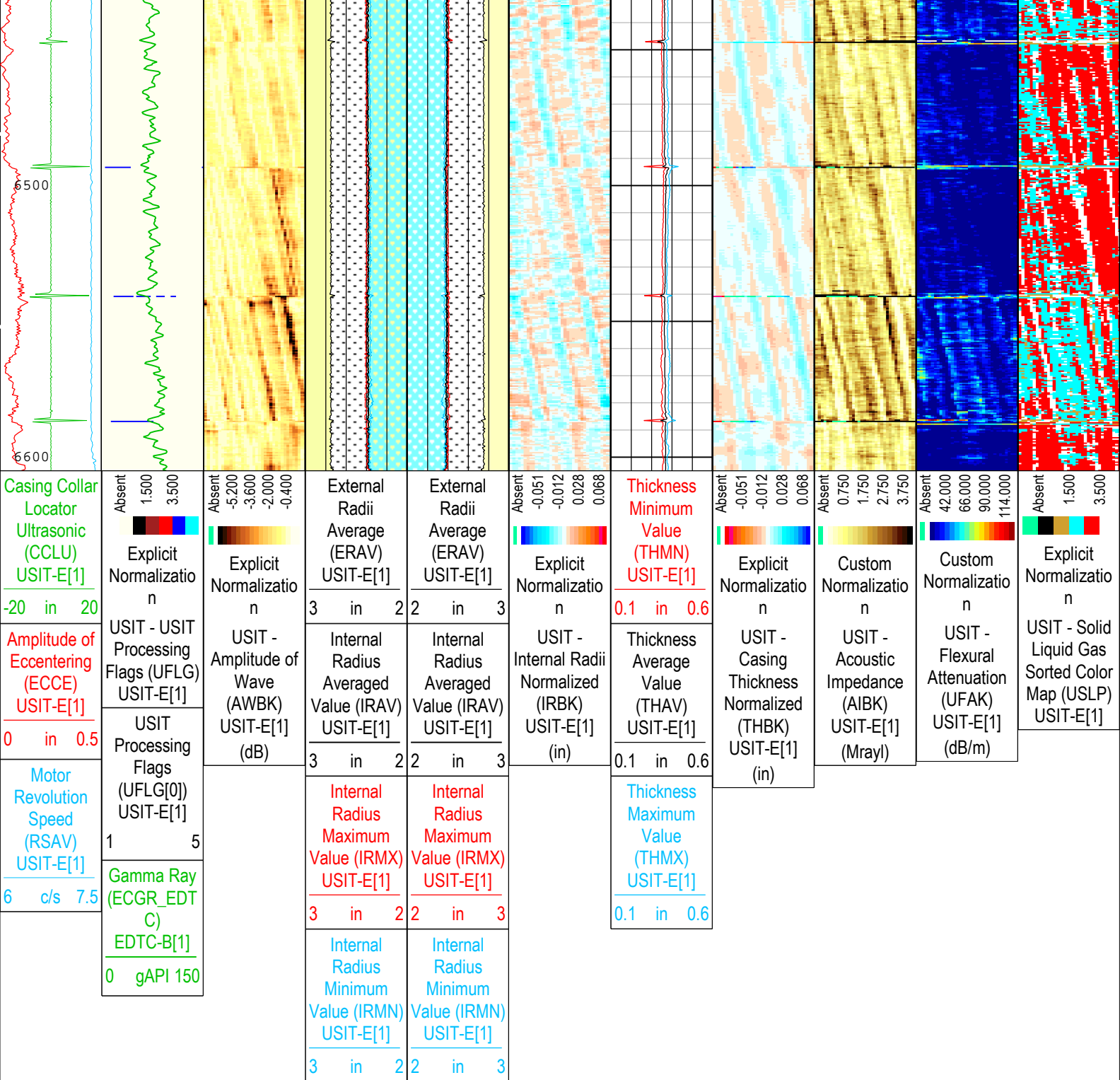












TIME\_1900 - Time Marked every 60.00 (s)

USIT Processing Flags (UFLG[0]) USIT-E[1]

- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :  Loop Processing Error

Description: USI IBC SLG Composite Format: Log ( IBC SLG Composite ) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth  
Creation Date: 18-Oct-2018 18:50:25

| Channel Processing Parameters |                          |          |       |      |
|-------------------------------|--------------------------|----------|-------|------|
| 1A: Parameters                |                          |          |       |      |
| Parameter                     | Description              | Tool     | Value | Unit |
| BARI(ISSBAR)                  | Barite Mud Presence Flag | Borehole | No    |      |

|                   |  |           |                   |         |
|-------------------|--|-----------|-------------------|---------|
| BHS               | Borehole Status (Open or Cased Hole)                 | Borehole  | Cased             |         |
| BS                | Bit Size   | WLSESSION | Depth Zoned       | in      |
| CBLO              | Casing Bottom (Logger)                               | WLSESSION | 11878             | ft      |
| CDEN              | Cement Density                                       | USIT-E    | 12.52             | lbm/gal |
| CDEN              | Cement Density                                       | EDTC-B    | 16.69             | lbm/gal |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E    | Light Cement      |         |
| DFD               | Drilling Fluid Density                               | Borehole  | 8.4               | lbm/gal |
| DFT_CATEGORY      | Drilling Fluid Type                                  | Borehole  | Water             |         |
| DTMD              | Borehole Fluid Slowness                              | Borehole  | 206               | us/ft   |
| FD                | Fluid Density  | USIT-E    | 10                | lbm/gal |
| GCSE_DOWN_PASS    | Generalized Caliper Selection for WL Log Down Passes | Borehole  | BS(RT)            |         |
| GCSE_UP_PASS      | Generalized Caliper Selection for WL Log Up Passes   | Borehole  | BS(RT)            |         |
| HEMA              | Hematite Presence Flag                               | Borehole  | No                |         |
| IBC_FRP_OFFSET    | IBC Flexural Offset from Free Pipe                   | USIT-E    | 4.54              | dB/m    |
| IBC_FVEL_SEL      | IBC Fluid Velocity Selection                         | USIT-E    | Automatic         |         |
| IBC_OFFSET_SEL    | IBC Flexural Offset Selector                         | USIT-E    | UFAO              |         |
| IBC_ZMUD_SEL      | IBC Mud Impedance Selection                          | USIT-E    | FreePipe Norm.    |         |
| ICE_PROCESS       | ICE Processing                                       | USIT-E    | Yes               |         |
| IMAR              | Image Rotation                                       | USIT-E    | Off               |         |
| MEAS_WLEN         | Tcube Processing Window Length in Measurement Mode   | USIT-E    | 22.44             | us      |
| MUD_N_FRP         | Free Pipe Mud Normalization Factor                   | USIT-E    | 1.23              |         |
| MUD_N_THE         | Theoretical Mud Normalization Factor                 | USIT-E    | 1.15              |         |
| U-USIT_DFSZ       | Drilling Fluid Specific Acoustic Impedance           | USIT-E    | 1.75              | Mrayl   |
| U-USIT_UFAO       | SIT Flexural Attenuation Offset                      | USIT-E    | 7                 | dB/m    |
| U-USIT_UIAP       | IBC Answer Product Enabled                           | USIT-E    | SolidLiquidGasMap |         |
| ZMUD              | Acoustic Impedance of Mud                            | Borehole  | 1.75              | Mrayl   |
| ZTCM              | Acoustic Impedance Threshold for Cement              | USIT-E    | 2.2               | Mrayl   |
| ZTGS              | Acoustic Impedance Threshold for Gas                 | USIT-E    | 0.3               | Mrayl   |

1A

Depth Zoned Parameters

| Parameter | Value | Start ( ft ) | Stop ( ft ) |
|-----------|-------|--------------|-------------|
| BS        | 13.5  | 2            | 2426        |
| BS        | 8.5   | 2426         | 6605        |

All depth are actual.

1B: Parameters

| Parameter         | Description  | Tool      | Value        | Unit    |
|-------------------|--|-----------|--------------|---------|
| BAR(ISSBAR)       | Barite Mud Presence Flag                             | Borehole  | No           |         |
| BHS               | Borehole Status (Open or Cased Hole)                 | Borehole  | Cased        |         |
| BS                | Bit Size   | WLSESSION | 8.5          | in      |
| CBLO              | Casing Bottom (Logger)                               | WLSESSION | 11878        | ft      |
| CDEN              | Cement Density                                       | USIT-E    | 0            | lbm/gal |
| CDEN              | Cement Density                                       | EDTC-B    | 16.69        | lbm/gal |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E    | Light Cement |         |
| DFD               | Drilling Fluid Density                               | Borehole  | 8.4          | lbm/gal |
| DFT_CATEGORY      | Drilling Fluid Type                                  | Borehole  | Water        |         |
| DTMD              | Borehole Fluid Slowness                              | Borehole  | 206          | us/ft   |
| FD                | Fluid Density  | USIT-E    | 10           | lbm/gal |
| GCSE_DOWN_PASS    | Generalized Caliper Selection for WL Log Down Passes | Borehole  | BS(RT)       |         |
| GCSE_UP_PASS      | Generalized Caliper Selection for WL Log Up Passes   | Borehole  | BS(RT)       |         |
| HEMA              | Hematite Presence Flag                               | Borehole  | No           |         |

|                |  |          |                   |       |
|----------------|--|----------|-------------------|-------|
| IBC_FRP_OFFSET | IBC Flexural Offset from Free Pipe                 | USIT-E   | -23.64            | dB/m  |
| IBC_FVEL_SEL   | IBC Fluid Velocity Selection                       | USIT-E   | Automatic         |       |
| IBC_OFFSET_SEL | IBC Flexural Offset Selector                       | USIT-E   | UFAO              |       |
| IBC_ZMUD_SEL   | IBC Mud Impedance Selection                        | USIT-E   | FreePipe Norm.    |       |
| ICE_PROCESS    | ICE Processing                                     | USIT-E   | Yes               |       |
| IMAR           | Image Rotation                                     | USIT-E   | Off               |       |
| MEAS_WLEN      | Tcube Processing Window Length in Measurement Mode | USIT-E   | 22.44             | us    |
| MUD_N_FRP      | Free Pipe Mud Normalization Factor                 | USIT-E   | 1.17              |       |
| MUD_N_THE      | Theoretical Mud Normalization Factor               | USIT-E   | 1.15              |       |
| U-USIT_DFSZ    | Drilling Fluid Specific Acoustic Impedance         | USIT-E   | 1.75              | Mrayl |
| U-USIT_UFAO    | SIT Flexural Attenuation Offset                    | USIT-E   | -33.39            | dB/m  |
| U-USIT_UIAP    | IBC Answer Product Enabled                         | USIT-E   | SolidLiquidGasMap |       |
| ZMUD           | Acoustic Impedance of Mud                          | Borehole | 1.75              | Mrayl |
| ZTCM           | Acoustic Impedance Threshold for Cement            | USIT-E   | 2.2               | Mrayl |
| ZTGS           | Acoustic Impedance Threshold for Gas               | USIT-E   | 0.3               | Mrayl |

## Tool Control Parameters

### 1A: Parameters

| Parameter   | Description                     | Tool   | Value            | Unit |
|-------------|---------------------------------|--------|------------------|------|
| AGMN        | Minimum Gain of Cartridge       | USIT-E | -12              | dB   |
| AGMX        | Maximum Gain of Cartridge       | USIT-E | 20               | dB   |
| EMXV        | EMEX Voltage                    | USIT-E | 50               | V    |
| IBC_ACQTYPE | IBC Acquisition type            | USIT-E | 1 MHz            |      |
| IBC_FLEXDBP | IBC Flex Duration Before Peak   | USIT-E | 30               | us   |
| ICE2_ACQ    | Ultrasonic ICE2 Acquisition     | USIT-E | Yes              |      |
| U-USIT_UFWB | Far Receiver Window Begin Time  | USIT-E | Time Zoned       | us   |
| U-USIT_UFWE | Far Receiver Window End Time    | USIT-E | Time Zoned       | us   |
| U-USIT_UNWB | Near Receiver Window Begin Time | USIT-E | Time Zoned       | us   |
| U-USIT_UNWE | Near Receiver Window End Time   | USIT-E | Time Zoned       | us   |
| UPAT        | USIT Emission Pattern           | USIT-E | Pattern 375 KHz  |      |
| UWKM        | USIT Working Mode               | USIT-E | 10 deg at 6.0 in |      |
| U-USIT_UTAN | Transducer Angles               | USIT-E | 33_DEG           |      |
| VRES        | Vertical Resolution             | USIT-E | 6.0 in           |      |
| WINB        | Window Begin Time               | USIT-E | 31.88            | us   |
| WINE        | Window End Time                 | USIT-E | 71.88            | us   |

### 1A Time Zoned Parameters

### Pass Log[3]:Up

| Parameter   | Value  | Start Time           | Stop Time            | Start Depth ( ft ) | Stop Depth ( ft ) |
|-------------|--------|----------------------|----------------------|--------------------|-------------------|
| U-USIT_UFWB | 137    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:42:07 | 6751.53            | 6368.52           |
| U-USIT_UFWB | 132.55 | 18-Oct-2018 09:42:07 | 18-Oct-2018 11:16:16 | 6368.52            | 23.56             |
| U-USIT_UFWE | 177    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:42:11 | 6751.53            | 6363.22           |
| U-USIT_UFWE | 170.61 | 18-Oct-2018 09:42:11 | 18-Oct-2018 11:16:16 | 6363.22            | 23.56             |
| U-USIT_UNWB | 106    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:40:52 | 6751.53            | 6455.47           |
| U-USIT_UNWB | 99.26  | 18-Oct-2018 09:40:52 | 18-Oct-2018 11:16:16 | 6455.47            | 23.56             |
| U-USIT_UNWE | 146    | 18-Oct-2018 09:34:10 | 18-Oct-2018 09:41:01 | 6751.53            | 6444.95           |
| U-USIT_UNWE | 141.12 | 18-Oct-2018 09:41:01 | 18-Oct-2018 11:16:16 | 6444.95            | 23.56             |

All depth are at tool zero.

### 1B: Parameters

| Parameter   | Description                     | Tool   | Value            | Unit |
|-------------|---------------------------------|--------|------------------|------|
| AGMN        | Minimum Gain of Cartridge       | USIT-E | -12              | dB   |
| AGMX        | Maximum Gain of Cartridge       | USIT-E | 48               | dB   |
| EMXV        | EMEX Voltage                    | USIT-E | Time Zoned       | V    |
| IBC_ACQTYPE | IBC Acquisition type            | USIT-E | 1 MHz            |      |
| IBC_FLEXDBP | IBC Flex Duration Before Peak   | USIT-E | 30               | us   |
| ICE2_ACQ    | Ultrasonic ICE2 Acquisition     | USIT-E | Yes              |      |
| U-USIT_UFWB | Far Receiver Window Begin Time  | USIT-E | 137              | us   |
| U-USIT_UFWE | Far Receiver Window End Time    | USIT-E | 177              | us   |
| U-USIT_UNWB | Near Receiver Window Begin Time | USIT-E | 106              | us   |
| U-USIT_UNWE | Near Receiver Window End Time   | USIT-E | 146              | us   |
| UPAT        | USIT Emission Pattern           | USIT-E | Pattern 375 KHz  |      |
| UWKM        | USIT Working Mode               | USIT-E | 10 deg at 6.0 in |      |
| U-USIT_UTAN | Transducer Angles               | USIT-E | 33_DEG           |      |
| VRES        | Vertical Resolution             | USIT-E | 6.0 in           |      |
| WINB        | Window Begin Time               | USIT-E | 31.88            | us   |
| WINE        | Window End Time                 | USIT-E | 71.88            | us   |

1BTime Zoned Parameters

Pass Log[2]:Up

| Parameter | Value | Start Time           | Stop Time            | Start Depth ( ft ) | Stop Depth ( ft ) |
|-----------|-------|----------------------|----------------------|--------------------|-------------------|
| EMXV      | 60    | 18-Oct-2018 12:36:52 | 18-Oct-2018 12:37:32 | 6605.87            | 6584.79           |
| EMXV      | 70    | 18-Oct-2018 12:37:32 | 18-Oct-2018 12:44:11 | 6584.79            | 6115.98           |
| EMXV      | 75    | 18-Oct-2018 12:44:11 | 18-Oct-2018 12:46:27 | 6115.98            | 5956.64           |
| EMXV      | 70    | 18-Oct-2018 12:46:27 | 18-Oct-2018 12:55:00 | 5956.64            | 5340.68           |
| EMXV      | 65    | 18-Oct-2018 12:55:00 | 18-Oct-2018 13:00:38 | 5340.68            | 5229.87           |

All depth are at tool zero.

main

IBC Goodwin Compressed 0 PSI

Composite Summary

| Run Name | Pass Objective | Direction | Top        | Bottom     | Start                   | Stop                    | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|------------|------------|-------------------------|-------------------------|----------|-------------|-----------------------|
| 1A       | Log[3]:Up      | Up        | 23.56 ft   | 6751.53 ft | 18-Oct-2018 9:34:10 AM  | 18-Oct-2018 11:16:16 AM | ON       | 5.11 ft     | Yes                   |
| 1B       | Log[2]:Up      | Up        | 4937.78 ft | 6606.03 ft | 18-Oct-2018 12:36:52 PM | 18-Oct-2018 1:00:38 PM  | ON       | 5.11 ft     | Yes                   |

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC

Well:Sam 3J-25H-M166

main:S004

Description: USI Goodwin    Format: Log ( IBC Goodwin )    Index Scale: 0.1 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 18-Oct-2018 18:50:59

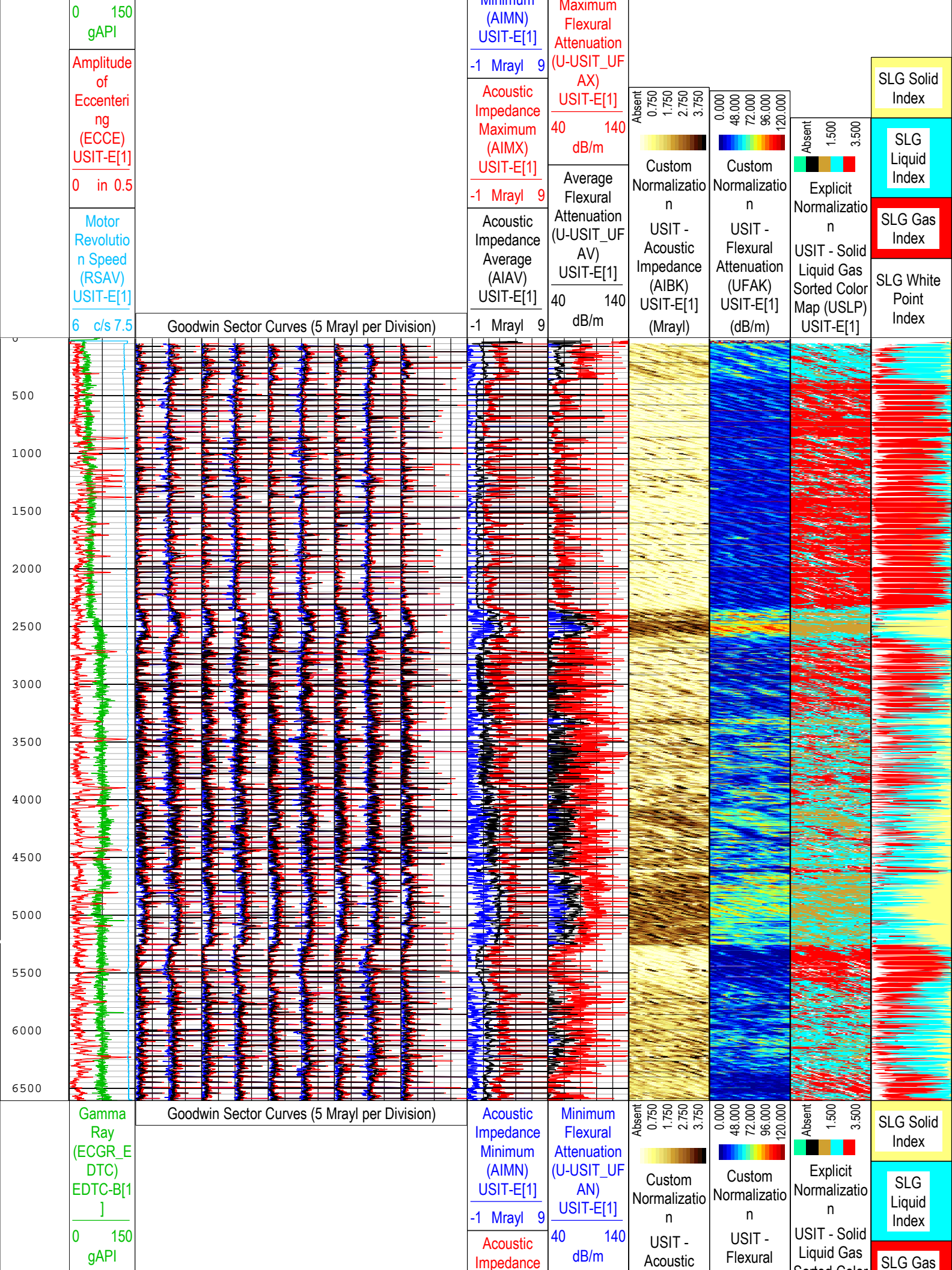
TIME\_1900 - Time Marked every 60.00 (s)

Gamma Ray (ECGR\_EDTC-B[1])

Minimum Flexural Attenuation (U-USIT\_UFAN) USIT-E[1]

Acoustic Impedance Minimum

40 140 dB/m





Amplitude  
of  
Eccentering  
(ECCE)  
USIT-E[1]  
0 in 0.5

Motor  
Revolution  
Speed  
(RSAV)  
USIT-E[1]  
6 c/s 7.5

Maximum  
(AIMX)  
USIT-E[1]  
-1 Mrayl 9

Acoustic  
Impedance  
Average  
(AIAV)  
USIT-E[1]  
-1 Mrayl 9

Maximum  
Flexural  
Attenuation  
(U-USIT\_UF  
AX)  
USIT-E[1]  
40 140  
dB/m

Average  
Flexural  
Attenuation  
(U-USIT\_UF  
AV)  
USIT-E[1]  
40 140  
dB/m

Impedance  
(AIBK)  
USIT-E[1]  
(Mrayl)

Attenuation  
(UFAK)  
USIT-E[1]  
(dB/m)

Sorted Color  
Map (USLP)  
USIT-E[1]

Index  
SLG White  
Point  
Index

TIME\_1900 - Time Marked every 60.00 (s)

Description: USI Goodwin   Format: Log ( IBC Goodwin )   Index Scale: 0.1 in per 100 ft   Index Unit: ft   Index Type: Measured Depth   Creation Date:  
18-Oct-2018 18:50:59

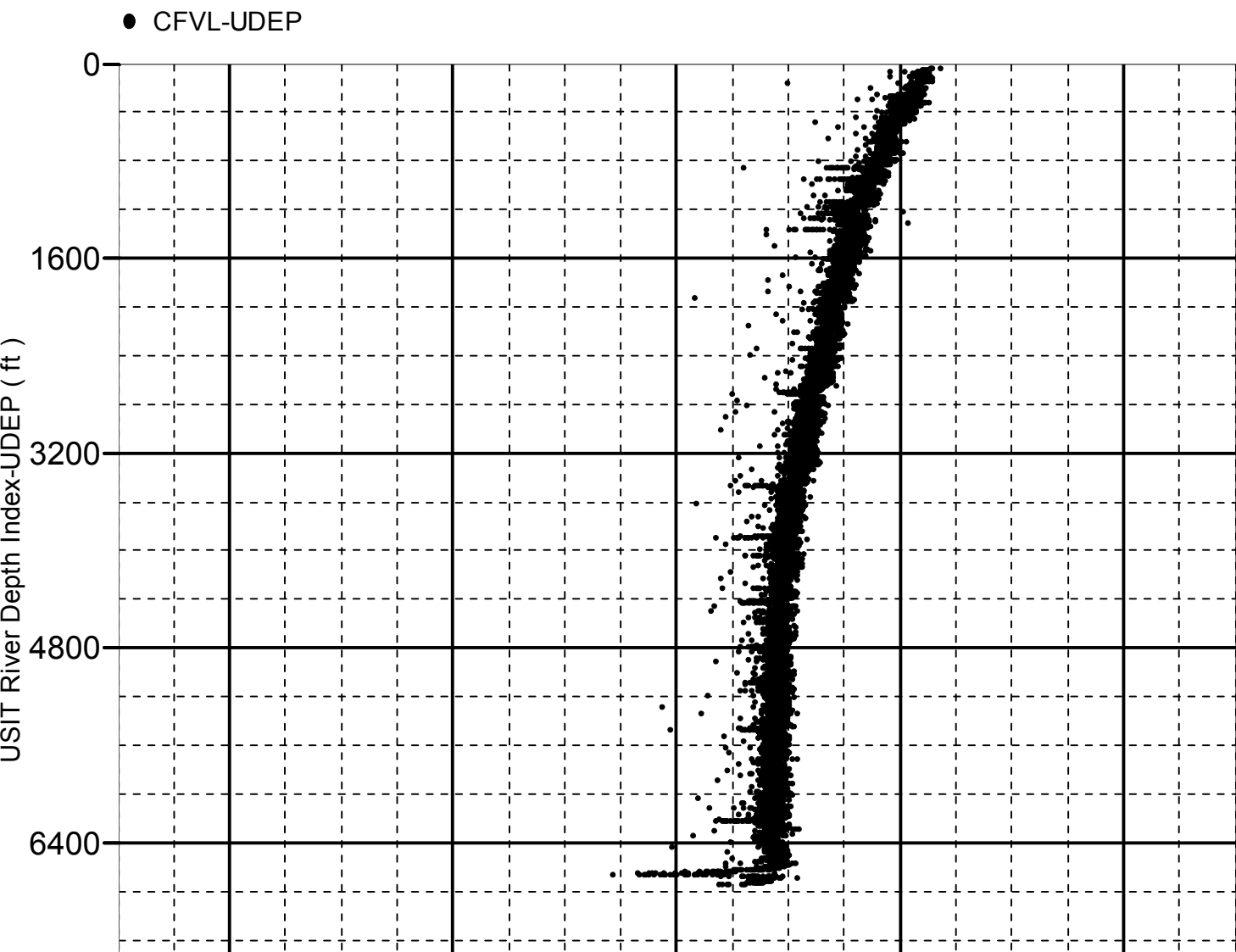
XYZ

Company:Crestone Peak Resources Operating LLC Well:Sam 3J-25H-M166  
1A: Log[3]:Up:S004

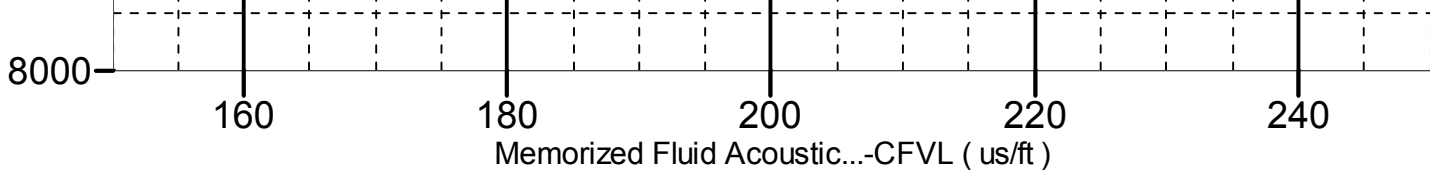
# Fluid Acoustic Slowness vs Depth

## 2D Cross Plot

Index Range: From 6750.50 to 23.00 ft







XYZ

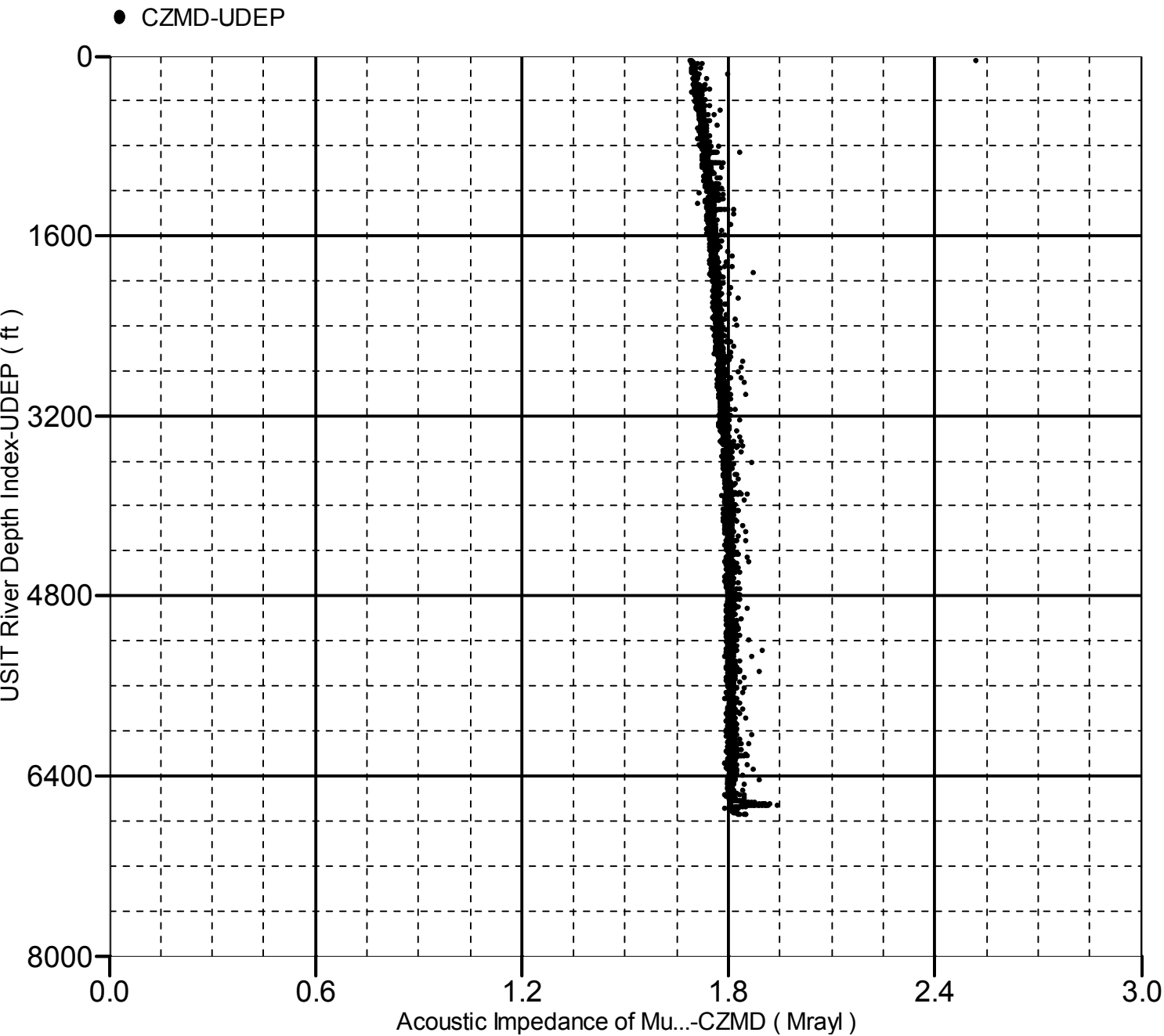
Company:Crestone Peak Resources Operating LLC Well:Sam 3J-25H-M166

1A: Log[3]:Up:S004

# Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6750.50 to 23.00 ft



Company: Crestone Peak Resources Operating LLC

**Schlumberger**

Well: Sam 3J-25H-M166

|         |            |
|---------|------------|
| Field:  | Wattenberg |
| County: | Weld       |
| State:  | Colorado   |

Isolation Scanner  
Cement Evaluation