

Company: Crestone Peak Resources Operating LLC

Well: Davis 1E-9H-G266

Field: Wattenberg

County: Weld State: Colorado

Isolation Scanner
Cement Evaluation
Gamma Ray - CCL Log

County: Weld
Field: Wattenberg
Location: SWSE Sec. 9, T2N, R66W
Well: Davis 1E-9H-G266
Company: Crestone Peak Resources Operating LLC

| | | | |
|--------------------------------|---------------|--|--|
| Location: | | SWSE Sec. 9, T2N, R66W SHL: 1917' FSL & 1397' FEL Lat/Long: 40.154559, -104.777804 | Elev.: K.B. 1940.00 ft G.L. 1917.00 ft D.F. 1940.00 ft |
| Permanent Datum: | Ground Level | Kelly Bushing | Elev.: 23.00 ft above Perm.Datum |
| Log Measured From: | Kelly Bushing | | |
| Drilling Measured From: | Kelly Bushing | | |
| API Serial No. 05-123-46510 | Section: 9 | Township: 2N | Range: 66W |

Logging Date 19-Sep-2018

Run Number ONE

Depth Driller 14665.00 ft

Schlumberger Depth 14665.00 ft

Bottom Log Interval 6663.00 ft

Top Log Interval 60.00 ft

Casing Fluid Type Water

Salinity

Density 8.4 lbm/gal

Fluid Level 0.00 ft

BIT/CASING/TUBING STRING

Bit Size 8.50 in

From 2155.00 ft

To 14665.00 ft

Casing/Tubing Size 5.5 in

Weight 20 lbm/ft

Grade P110

From 0.00 ft

To 14655.00 ft

Max Recorded Temperatures 195.2 degF

Logger on Bottom 19-Sep-2018 15:13:00

Unit Number 9108 Location: Fort Morgan, CO

Recorded By A.BLOCHOWICZ

Witnessed By TRACY KERN

Disclaimer

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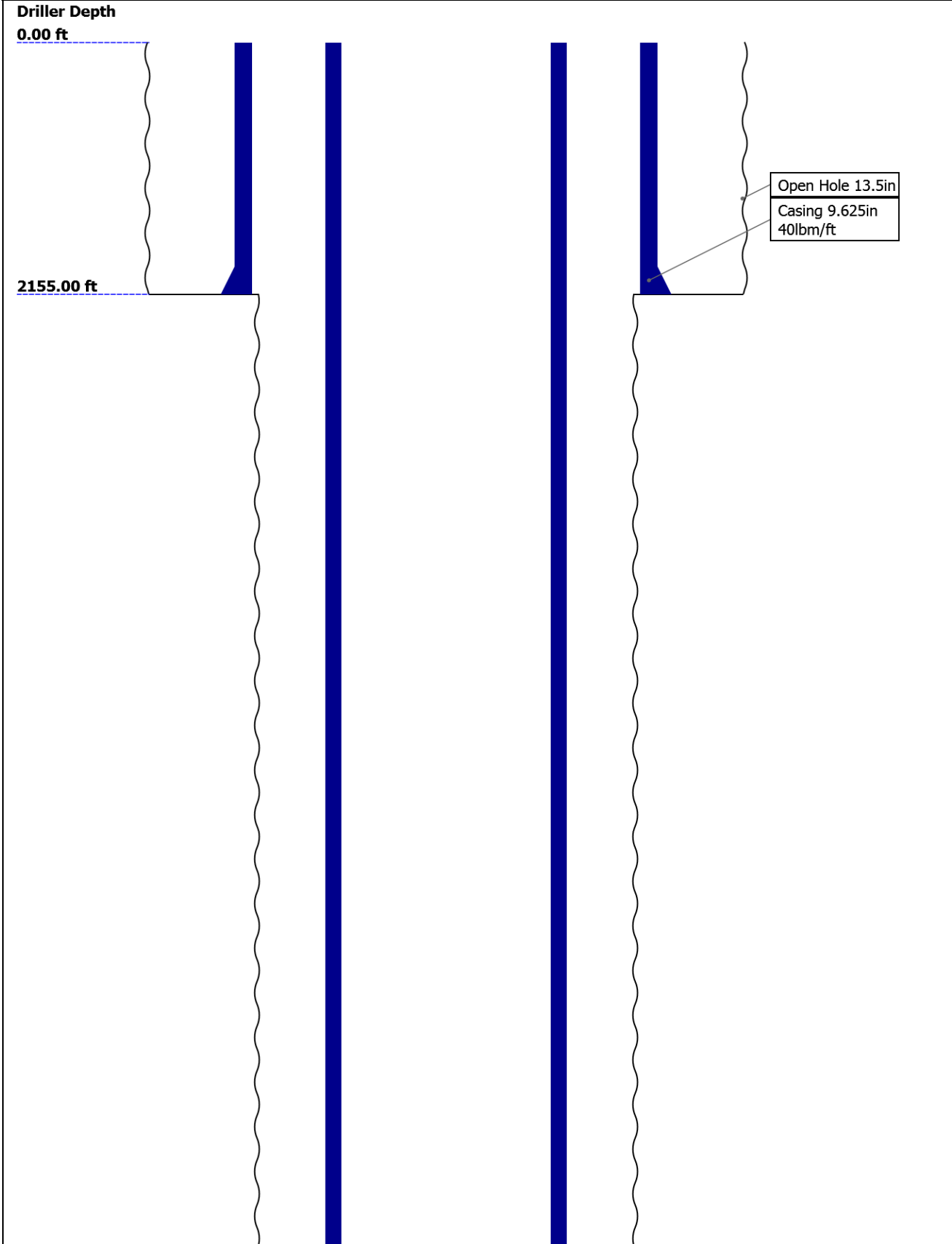
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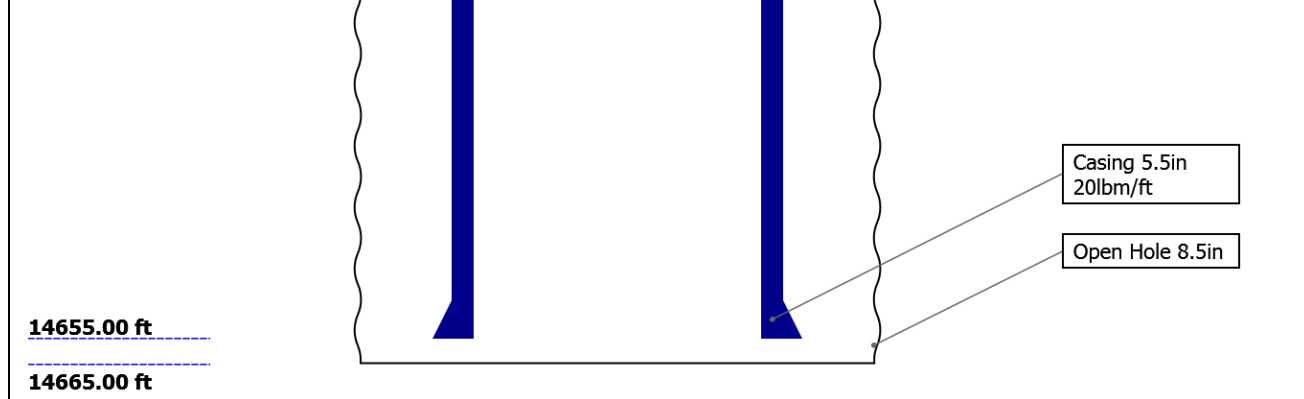
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Well Sketch



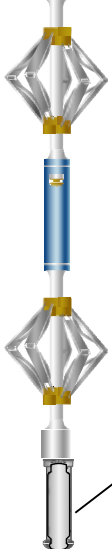


Borehole Size/Casing/Tubing Record

| | | | | | | |
|-----------------------|-------|-------|--|--|--|--|
| Bit | | | | | | |
| Bit Size (in) | 13.5 | 8.5 | | | | |
| Top Driller (ft) | 0 | 2155 | | | | |
| Top Logger (ft) | 0 | 2155 | | | | |
| Bottom Driller (ft) | 2155 | 14665 | | | | |
| Bottom Logger (ft) | 2155 | 14665 | | | | |
| Casing | | | | | | |
| Size (in) | 9.625 | 5.5 | | | | |
| Weight (lbm/ft) | 40 | 20 | | | | |
| Inner Diameter (in) | 8.835 | 4.778 | | | | |
| Grade | J55 | P110 | | | | |
| Top Driller (ft) | 0 | 0 | | | | |
| Top Logger (ft) | 0 | 0 | | | | |
| Bottom Driller (ft) | 2155 | 14655 | | | | |
| Bottom Logger (ft) | 2155 | 14655 | | | | |

Remarks and Equipment Summary

| ONE: Toolstring | | | | ONE: Remarks | |
|-------------------|---------------|----------------|---------------|---|--|
| Equip name | Length | MP name | Offset | Thank you for choosing Schlumberger! | |
| LEH-QT | 30.73 | | | Tool string run as per tool sketch and client logging program. | |
| LEH-QT | | | | 5" Gemcos and in-line centralizers with small hole kit used for centralization. | |
| EDTC-B:8 | 27.24 | | | All passes run under 0 PSI | |
| 473M | | | | Lead: 12.5 ppg | |
| EDTH-B:86 | | | | Tail: 13.5 ppg | |
| 24 | | | | Spacer: 12 ppg | |
| EDTG-A:7 | | | | | |
| 7434 | | | | | |
| EDTC-B:84 | | | | | |
| 73M | | | | | |
| AH-184[| 20.74 | | | | |
| 2]:5941 | | | | | |
| AH-184[| 18.74 | | | | |
| 1]:5965 | | | | | |
| USIT-E:17 | 16.74 | | | | |
| 25 | | | | | |
| ECH-MFA: | | | | | |
| 1991 | | | | | |
| USAC-A:1 | | | | | |
| 725 | | | | | |
| USAC-A:10 | | | | | |

| | | |
|---|--|--|
| USIS-A:18 32 USSC-B:17 78 IBCS-A:76 3 FAR-SENS OR:4690 IBC-TX NEAR-SEN SOR:4722 IBC-TX USI-SENS OR:4687 IBC-TX EMITTER- SENSOR:4 684 IBC-TX |  <p>USI Sen 0.84 sor Head Te nsion</p> <p>TOOL_ZERO</p> <p>Lengths are in ft Maximum Outer Diameter = 5.000 in Line: Sensor Location, Value: Gating Offset All measurements are relative to TOOL_ZERO</p> | |
|---|--|--|

| Depth Summary | | | |
|------------------------------------|-----------------------|---|--|
| ONE | | | |
| Depth Measuring Device | | | |
| Type | IDW-JA | | |
| Serial Number | 6455 | | |
| Calibration Date | 26-JUL-2018 | | |
| Calibrator Serial Number | IDWC-C-57 | | |
| Calibration Cable Type | 7-32 ASXS | | |
| Wheel Correction 1 | -1 | | |
| Wheel Correction 2 | 1 | | |
| Tension Device | | | |
| Type | CMTD-B/A | | |
| Serial Number | 1703 | | |
| Calibration Date | 29-Jul-2018 | | |
| Calibrator Serial Number | 88310A | | |
| Number of Calibration Points | 10 | | |
| Calibration Root Mean Square Error | 6 | | |
| Calibration Peak Error | 9 | | |
| Logging Cable | | | |
| Type | 7-32AS-XS | | |
| Serial Number | U718001 | | |
| Length | 20000.00 ft | | |
| Conveyance Type | Wireline | | |
| Rig Type | Crane USA | | |
| ONE:Depth Control Parameters | | Depth Control Remarks | |
| Log Sequence | First Log In the Well | All Schlumberger depth control policies followed. | |
| Rig Up Length At Surface | | IDW used as primary depth reference. | |
| Rig Up Length At Bottom | | Z-chart used as secondary depth reference. | |
| 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 1 | Log[4]:Up | 6667.15 | 54.61 |

Fluid Velocity = "Automatic".
CFVL equals DFSL channel

| Start Depth(ft) | Stop Depth(ft) | Start Value(us/ft) | End Value(us/ft) |
|-----------------|----------------|--------------------|------------------|
|-----------------|----------------|--------------------|------------------|

Mud Impedance = "Inversion Norm."
IBC Inversion normalization zone is : 312.19m(1024.24ft) to 317.78m(1042.58ft)
MUD_N_INV = 1.19
DFD = 1.01g/cm3(8.40lbm/gal)
CZMD median computed in inversion normalization interval = 1.69 MRayl

| Start Depth(ft) | Stop Depth(ft) | Start Value(Mrayl) | End Value(Mrayl) |
|-----------------|----------------|--------------------|------------------|
|-----------------|----------------|--------------------|------------------|

ONE

IBC SLG

Software Version

| Acquisition System | Version |
|--------------------|-----------------|
| Maxwell 2018 SP2 | 8.2.104493.3100 |

Pass Summary






| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| ONE | Log[4]:Up | Up | 54.61 ft | 6667.15 ft | 19-Sep-2018 3:13:20 PM | 19-Sep-2018 4:50:42 PM | ON | 5.43 ft | Yes |

All depths are referenced to toolstring zero

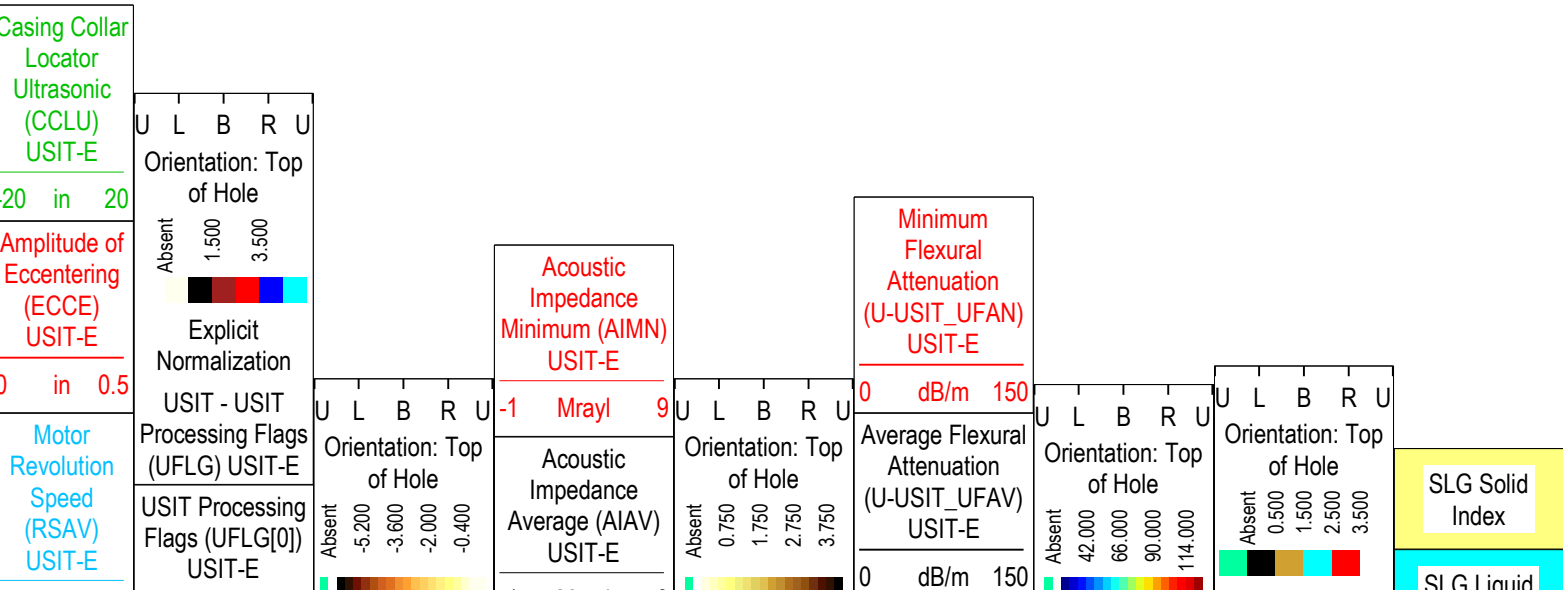
| Log | Company:Crestone Peak Resources Operating LLC Well:Davis 1E-9H-G266 ONE: Log[4]:Up:S007 |
|-----|---|
|-----|---|

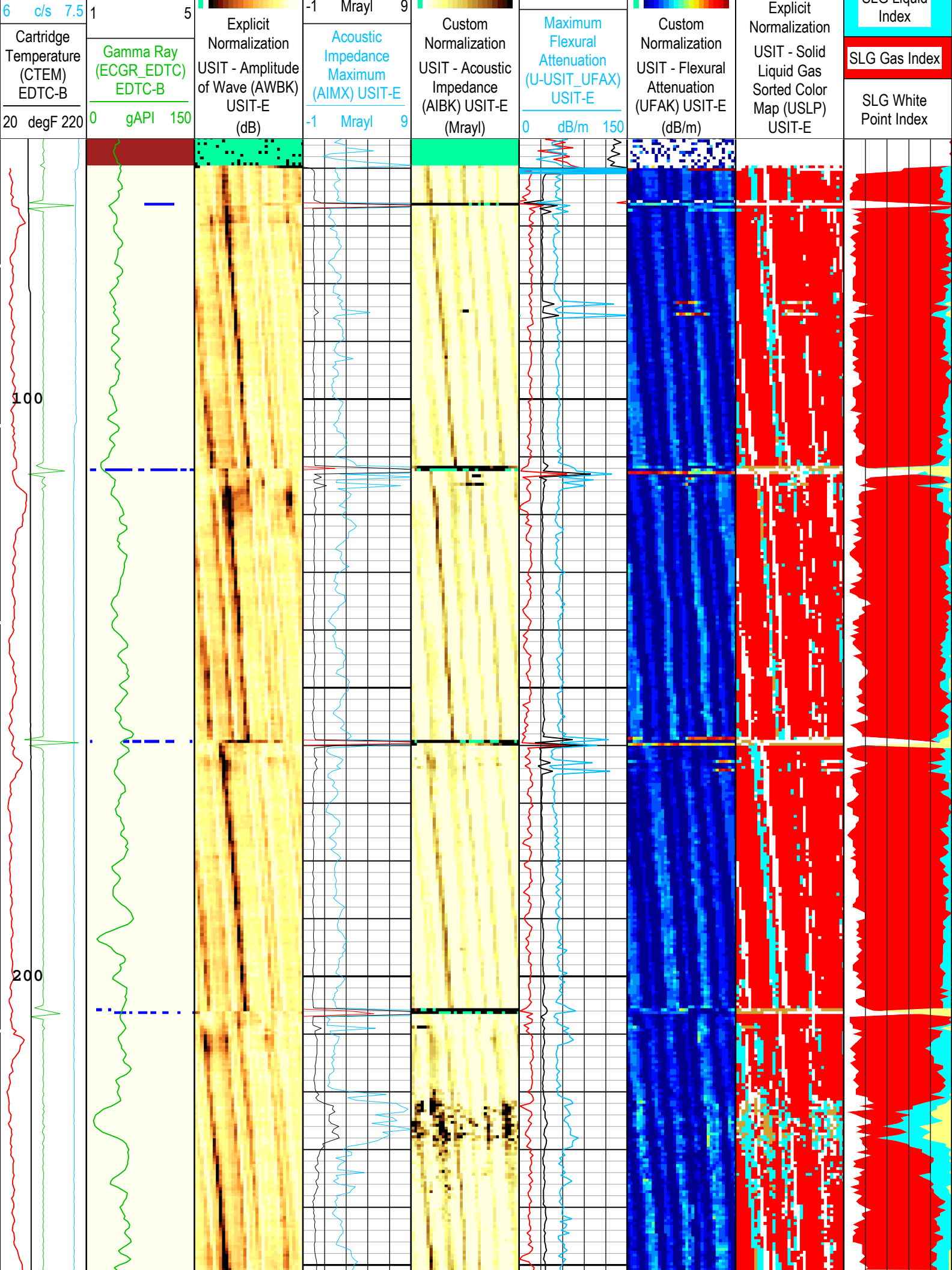
Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 21:24:07

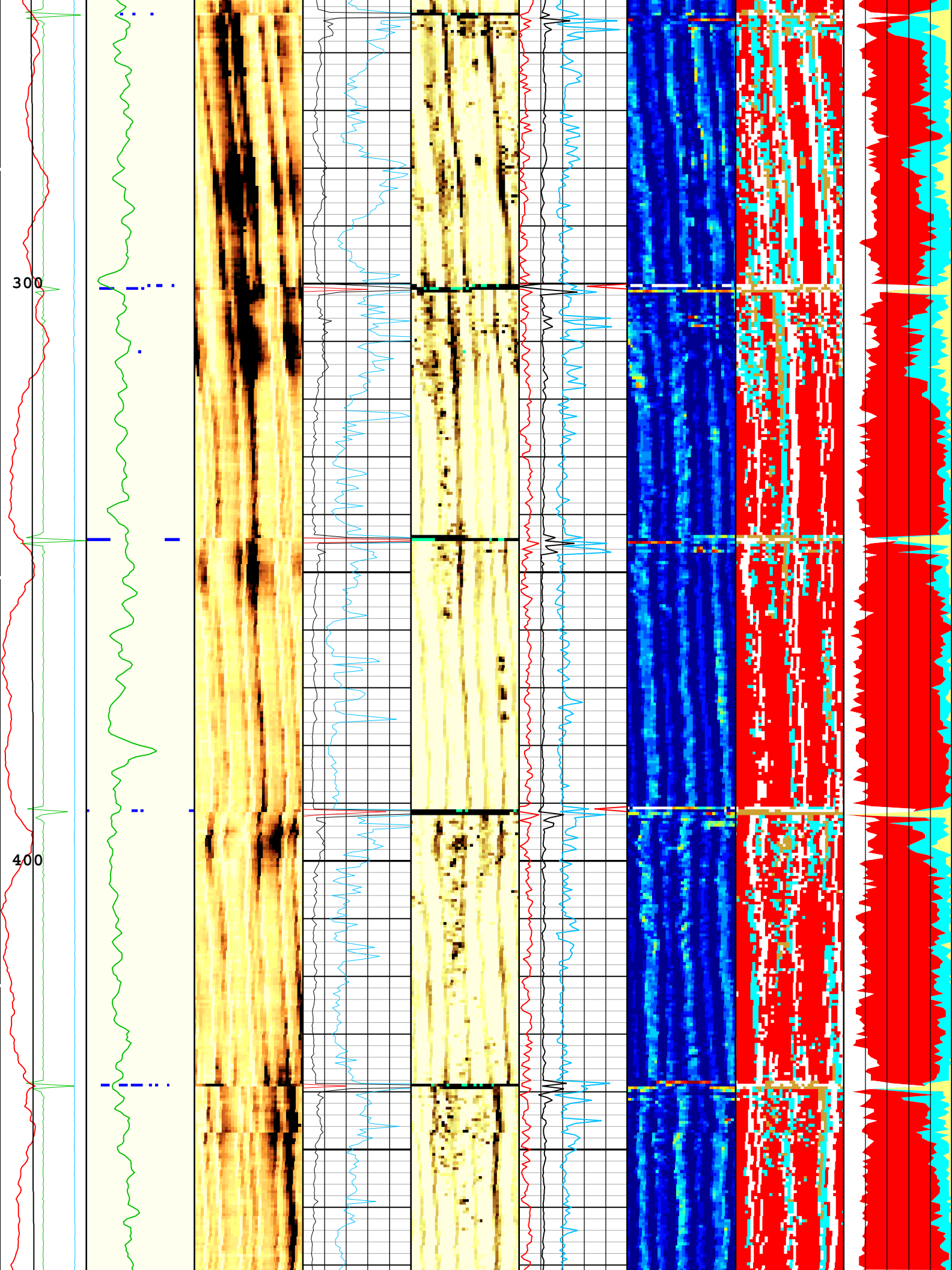
USIT Processing Flags (UFLG[0]) USIT-E

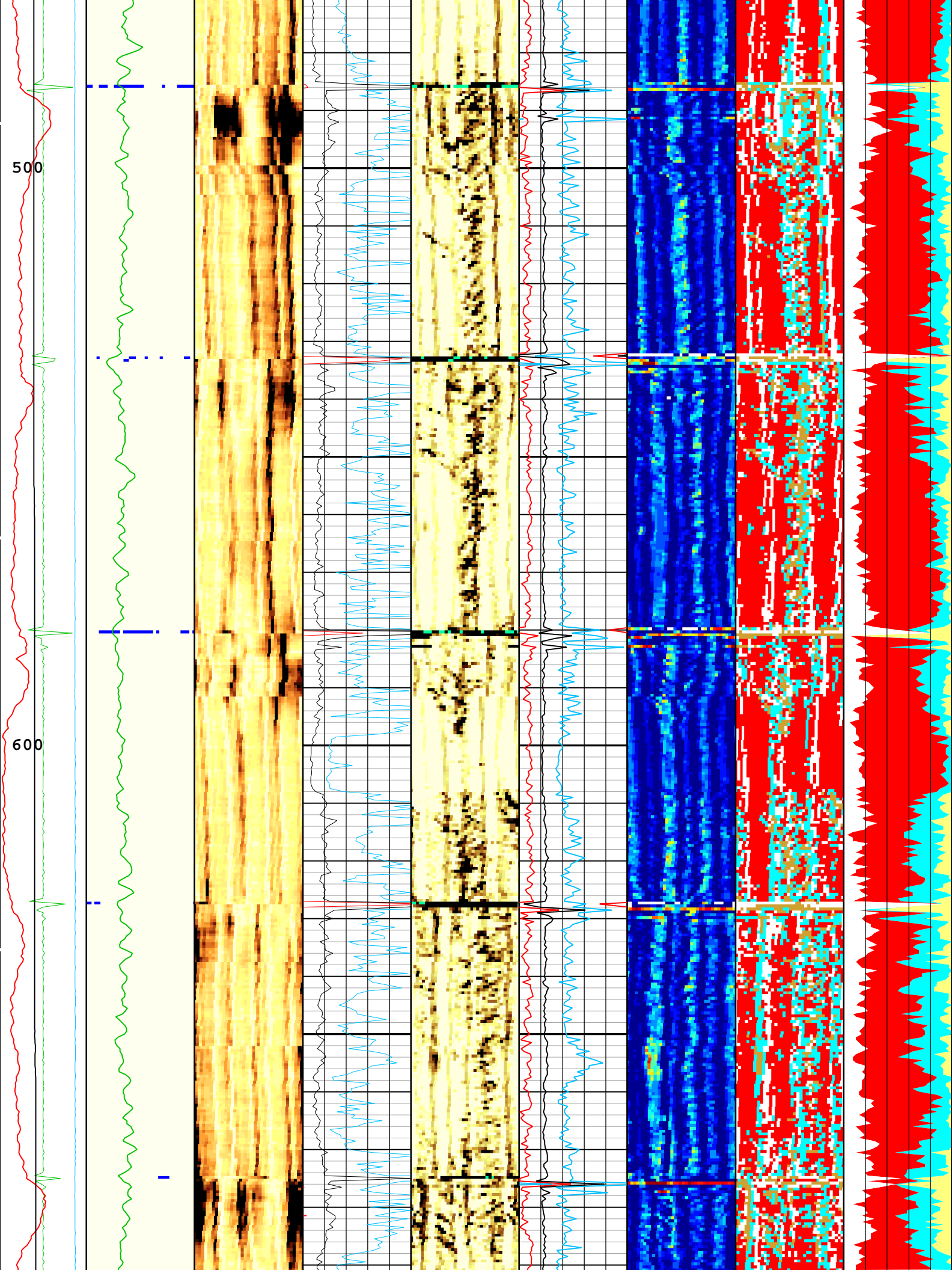
- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
- 2 - UFLG 2 Value within [1.5 - 2.5] - :  Pulse Origin Not Detected
- 3 - UFLG 3 Value within [2.5 - 3.5] - :  WINLEN Error
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5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

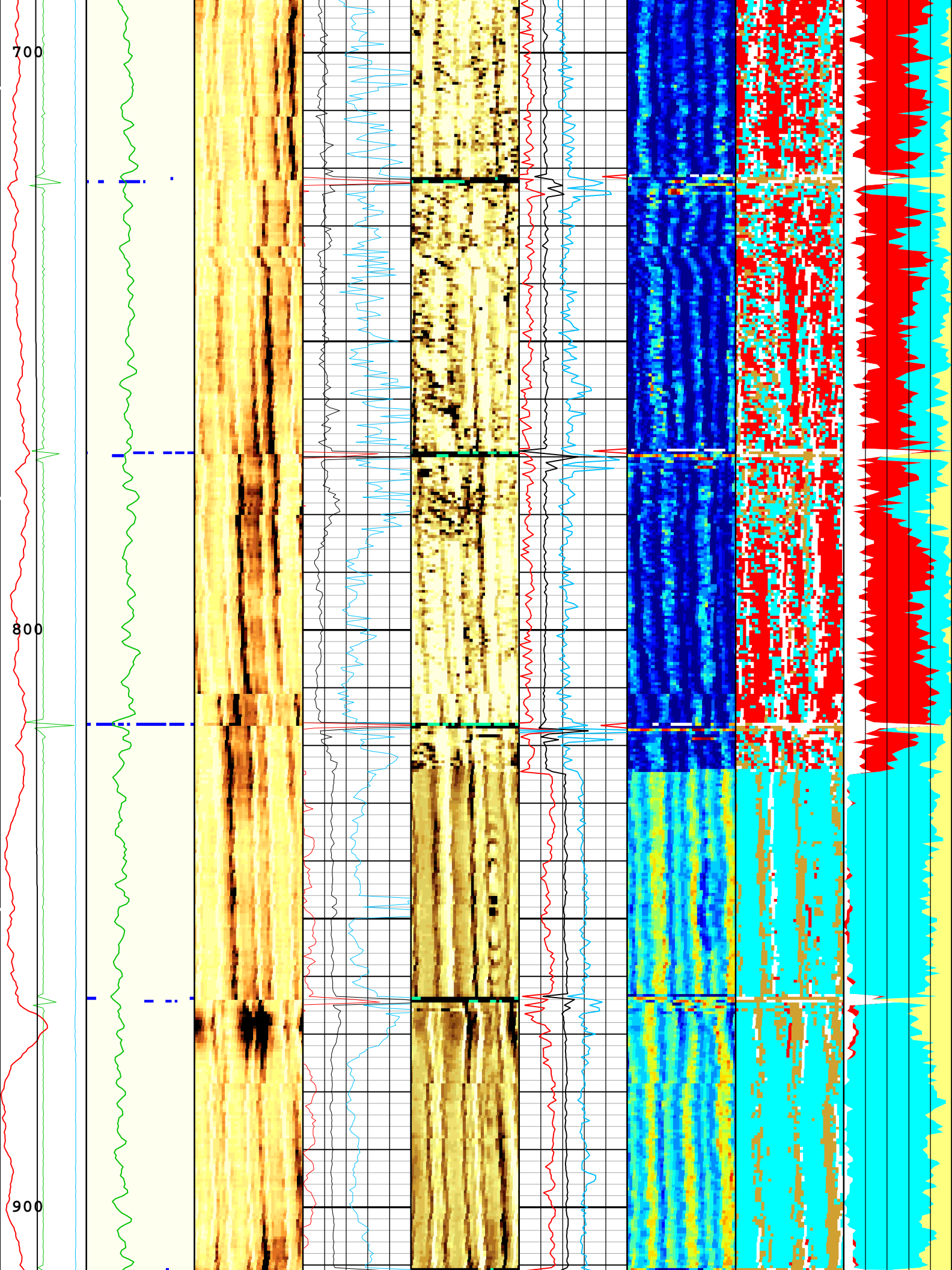
TIME_1900 - Time Marked every 60.00 (s)

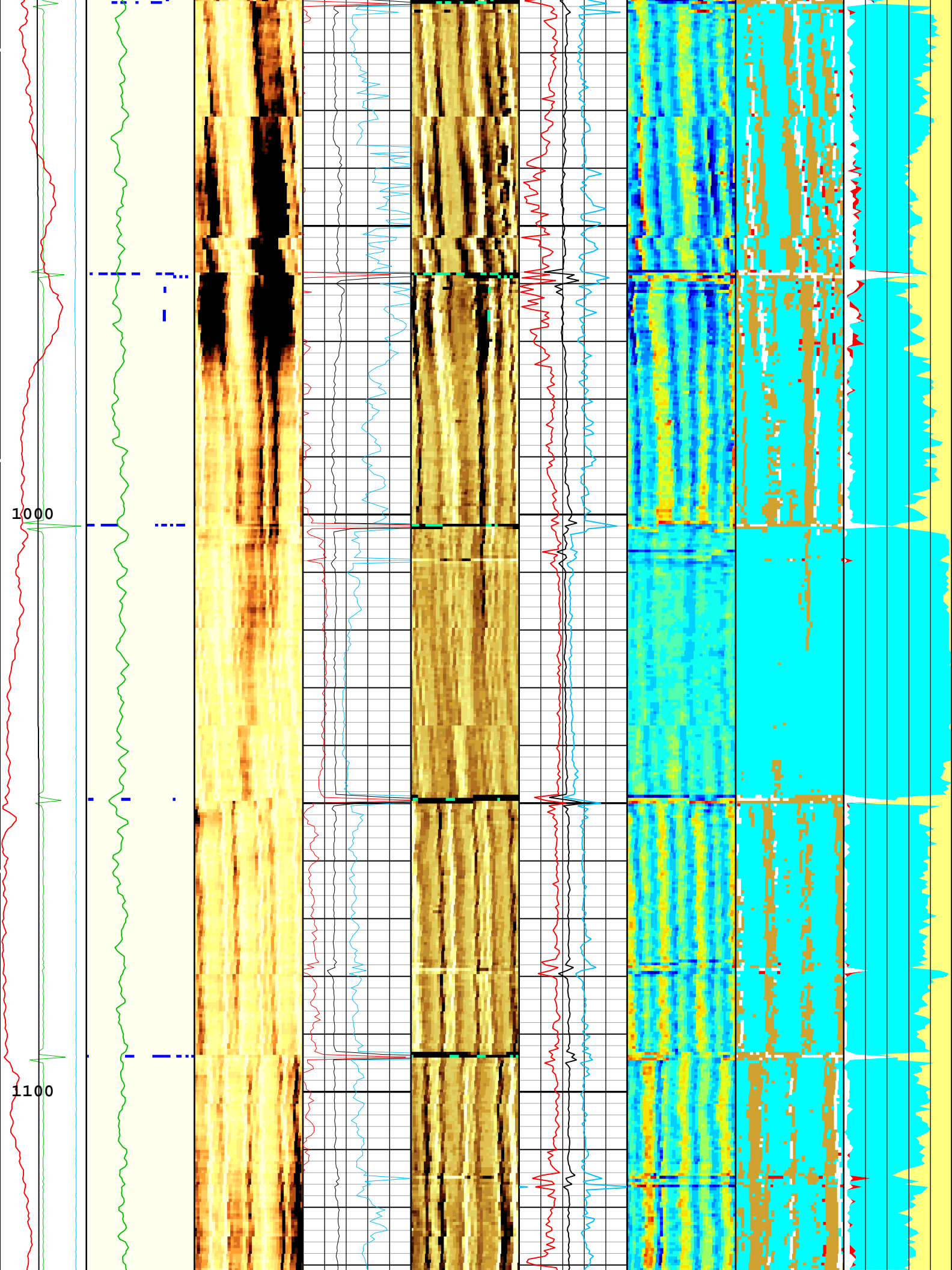


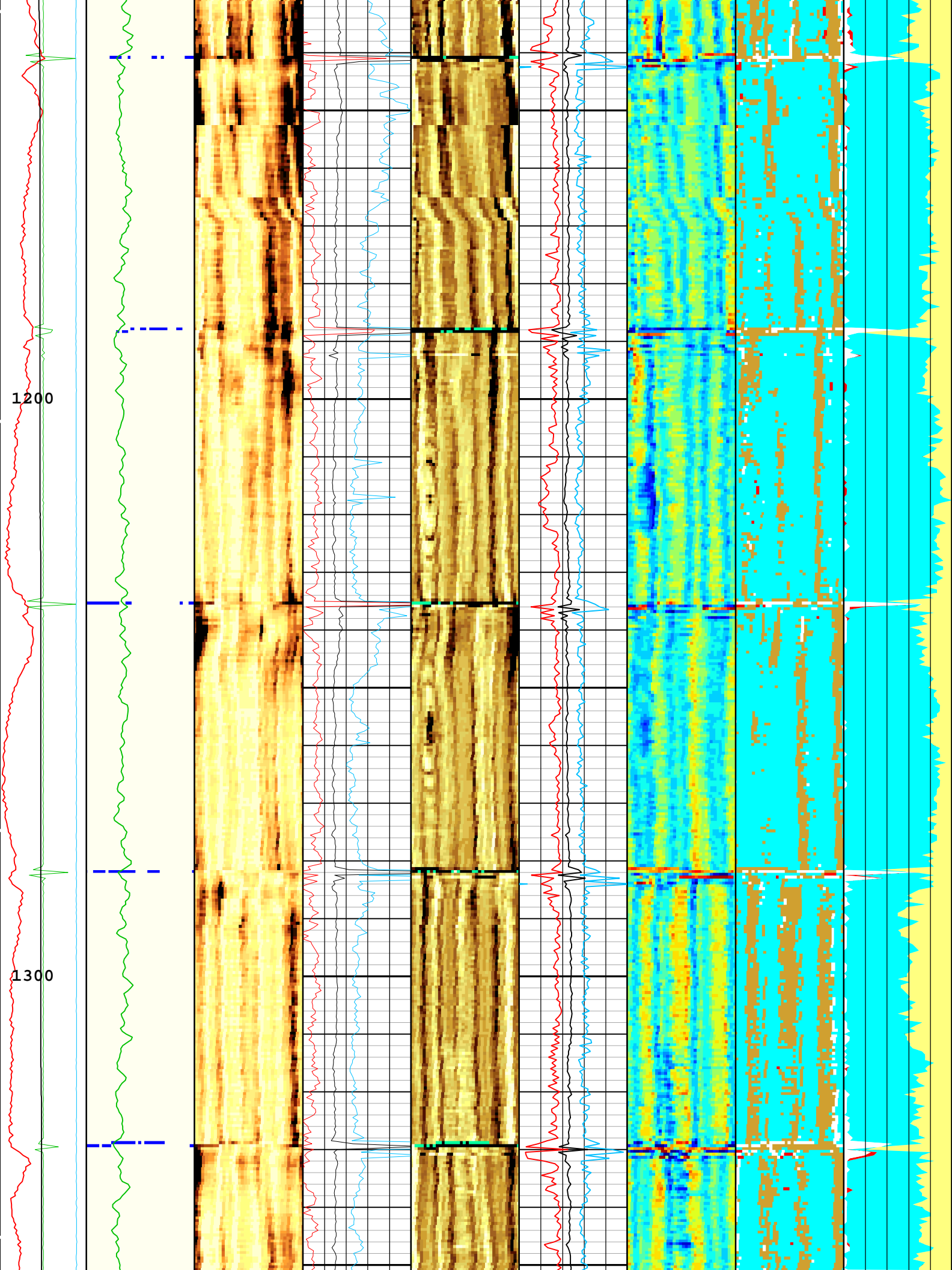


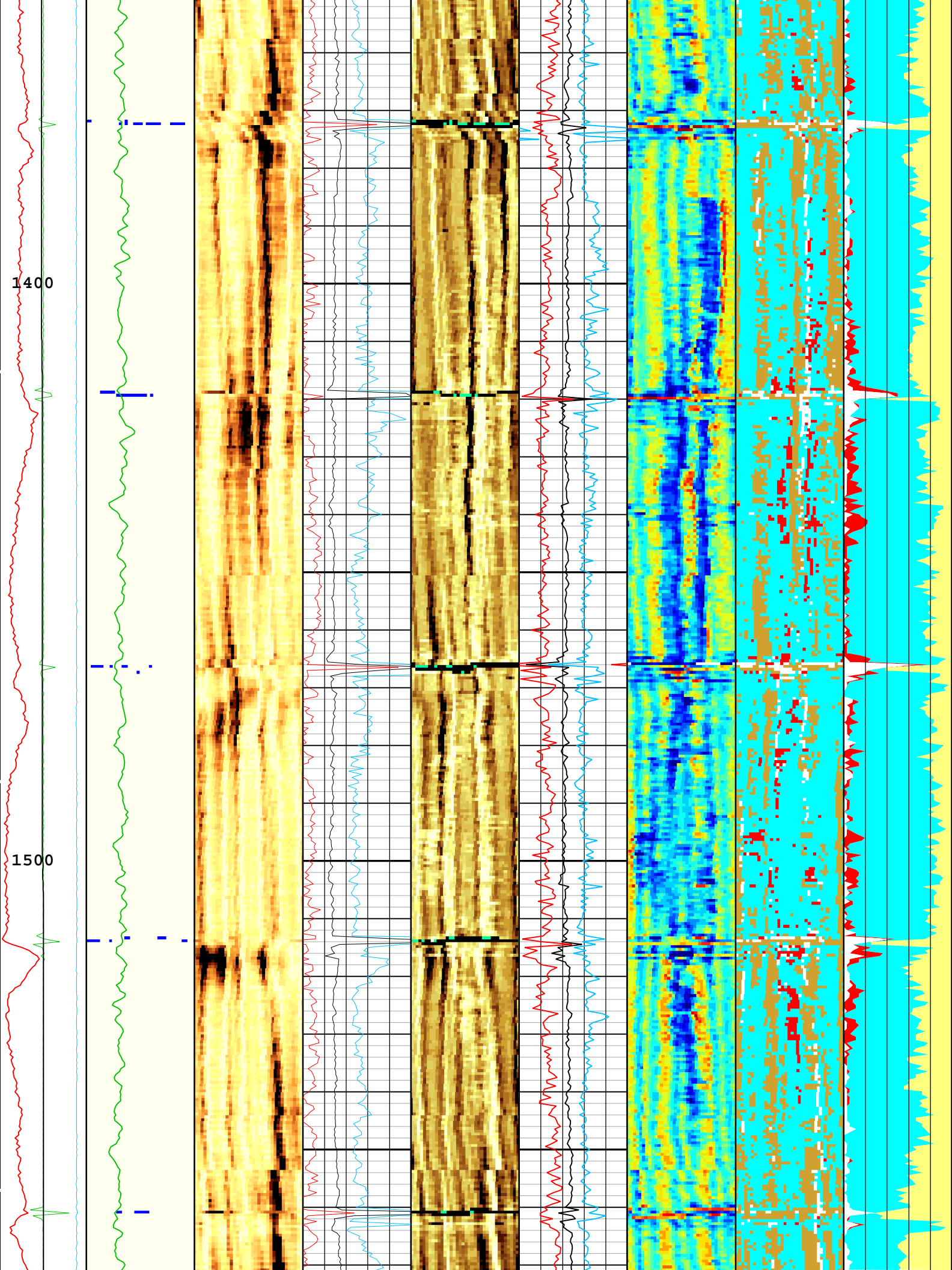


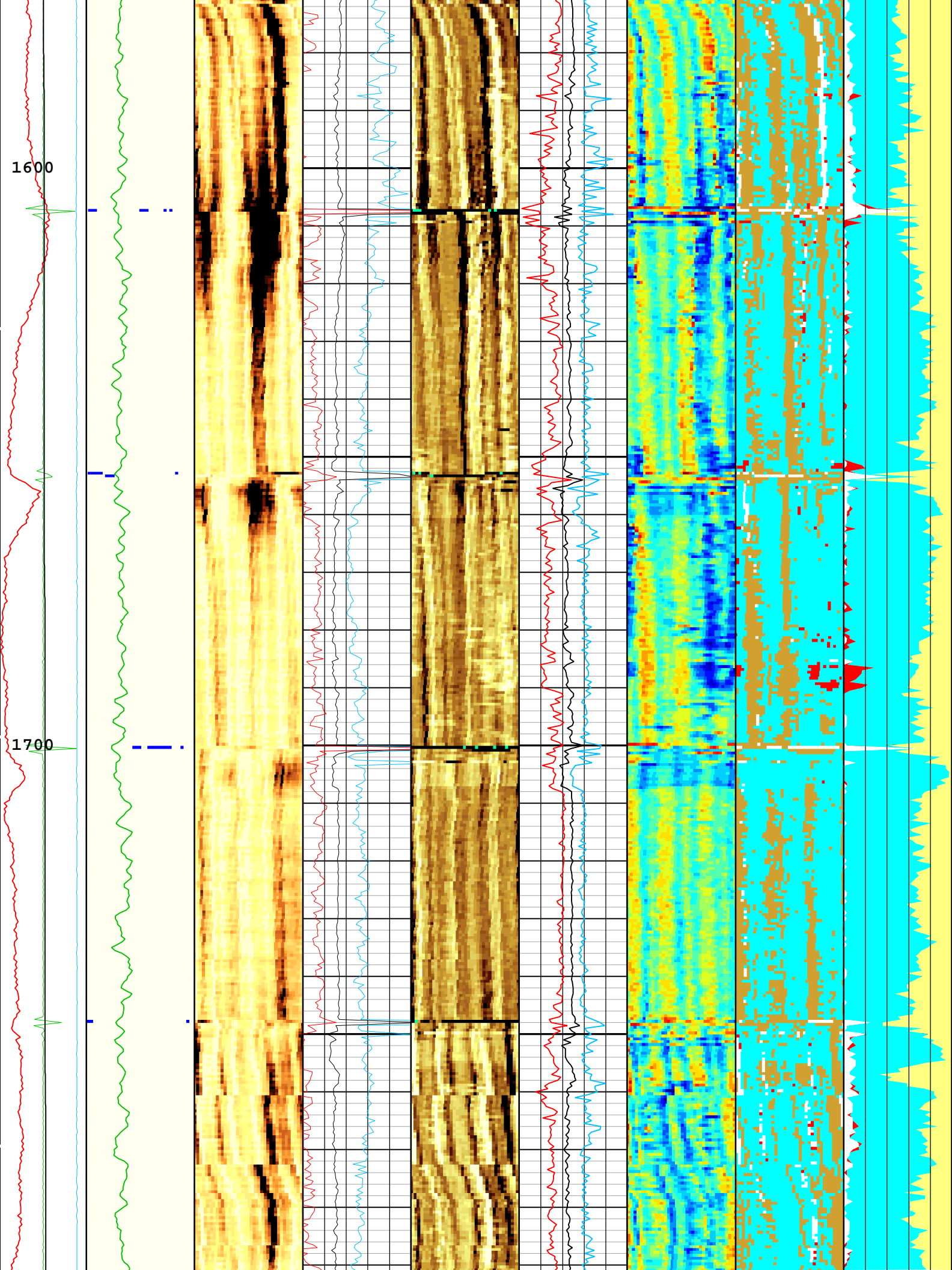


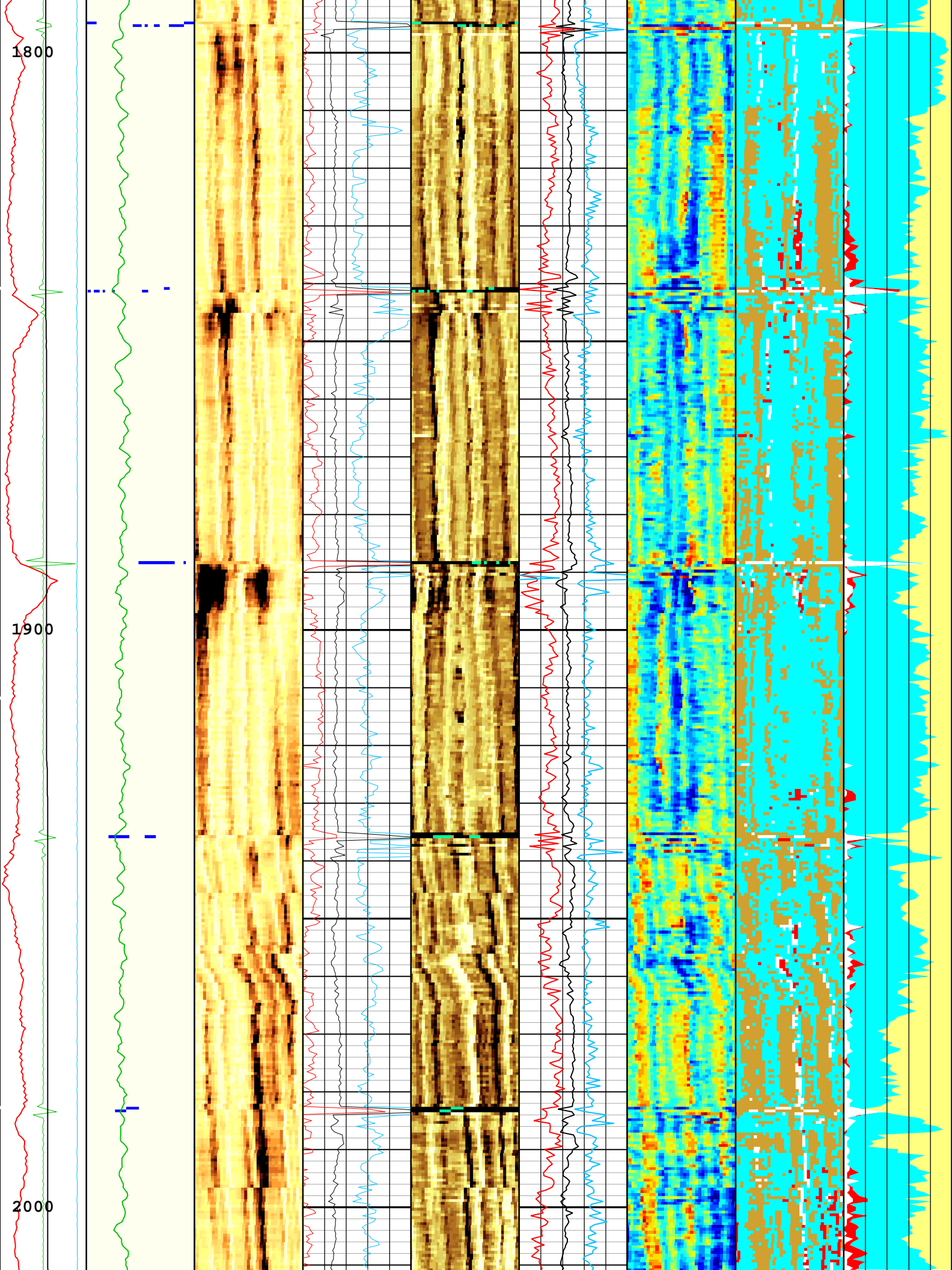


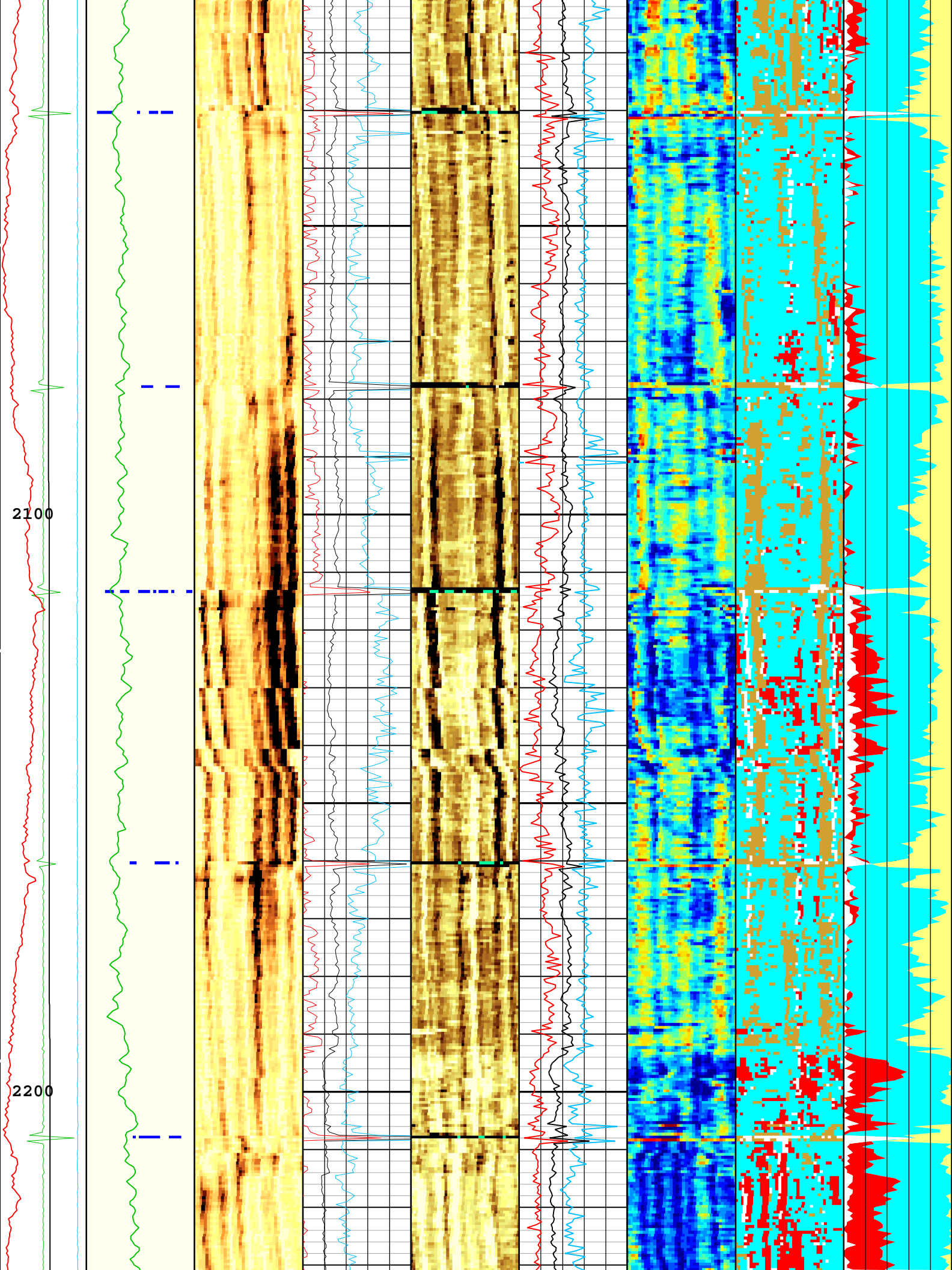


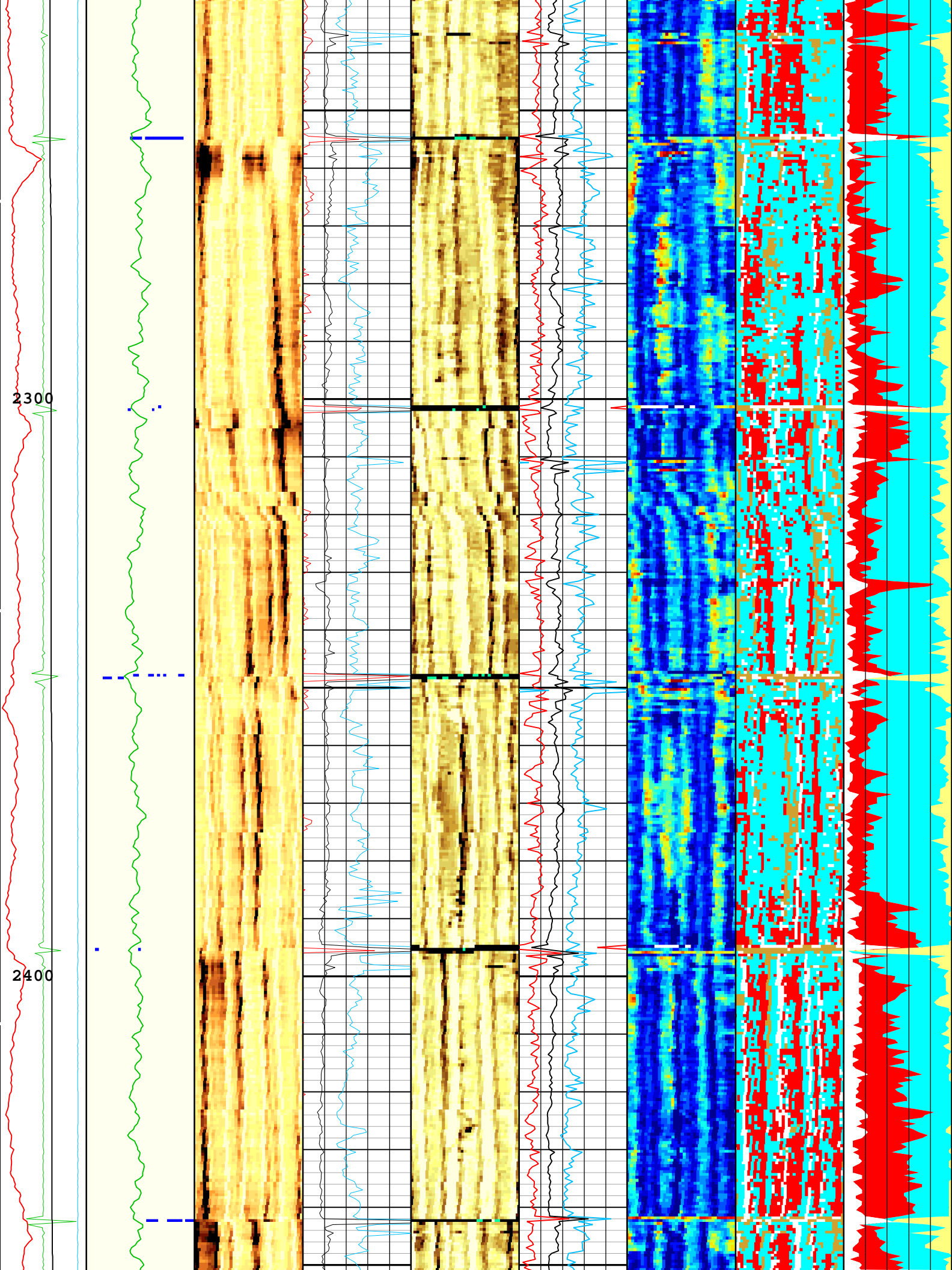


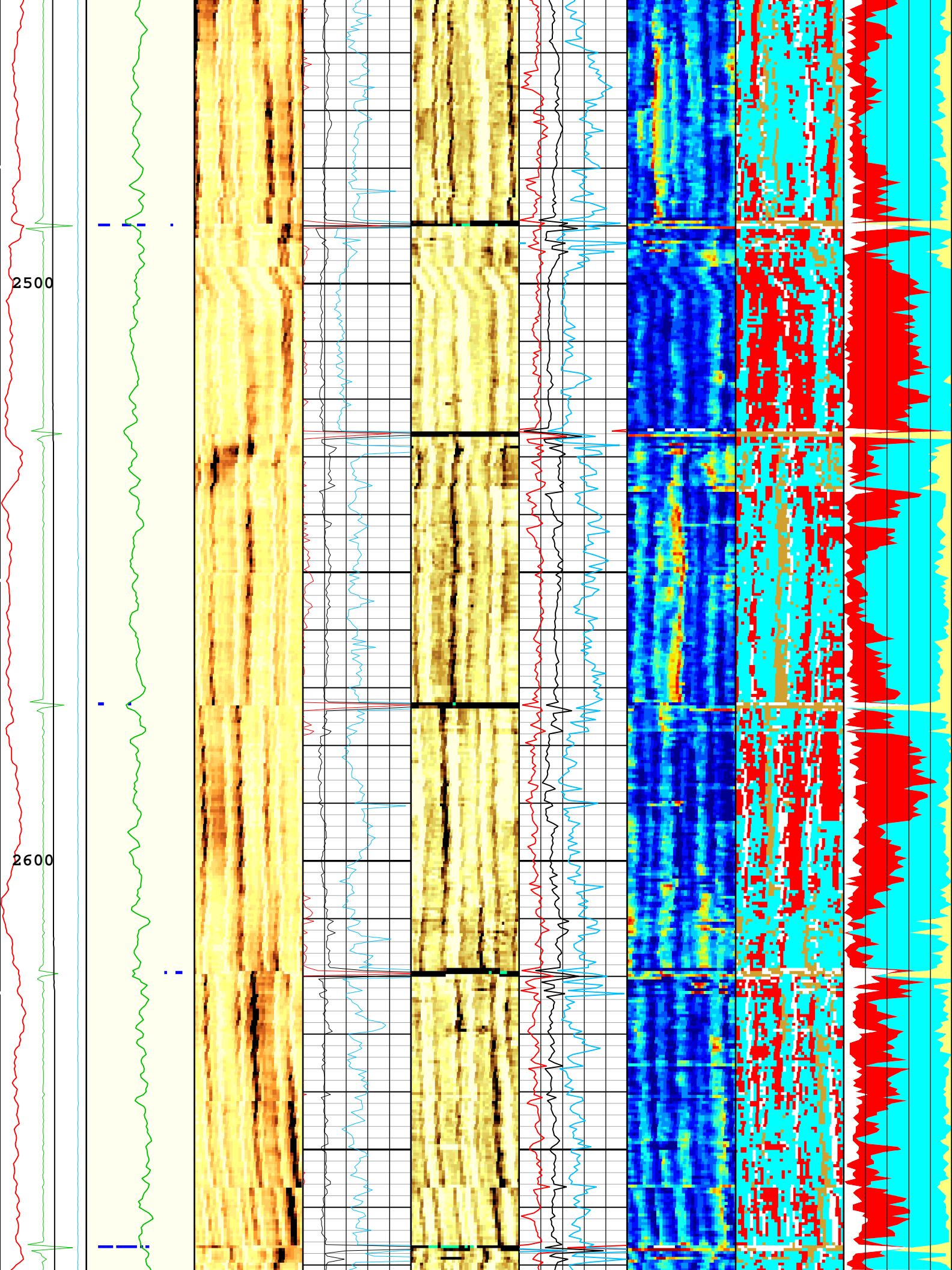


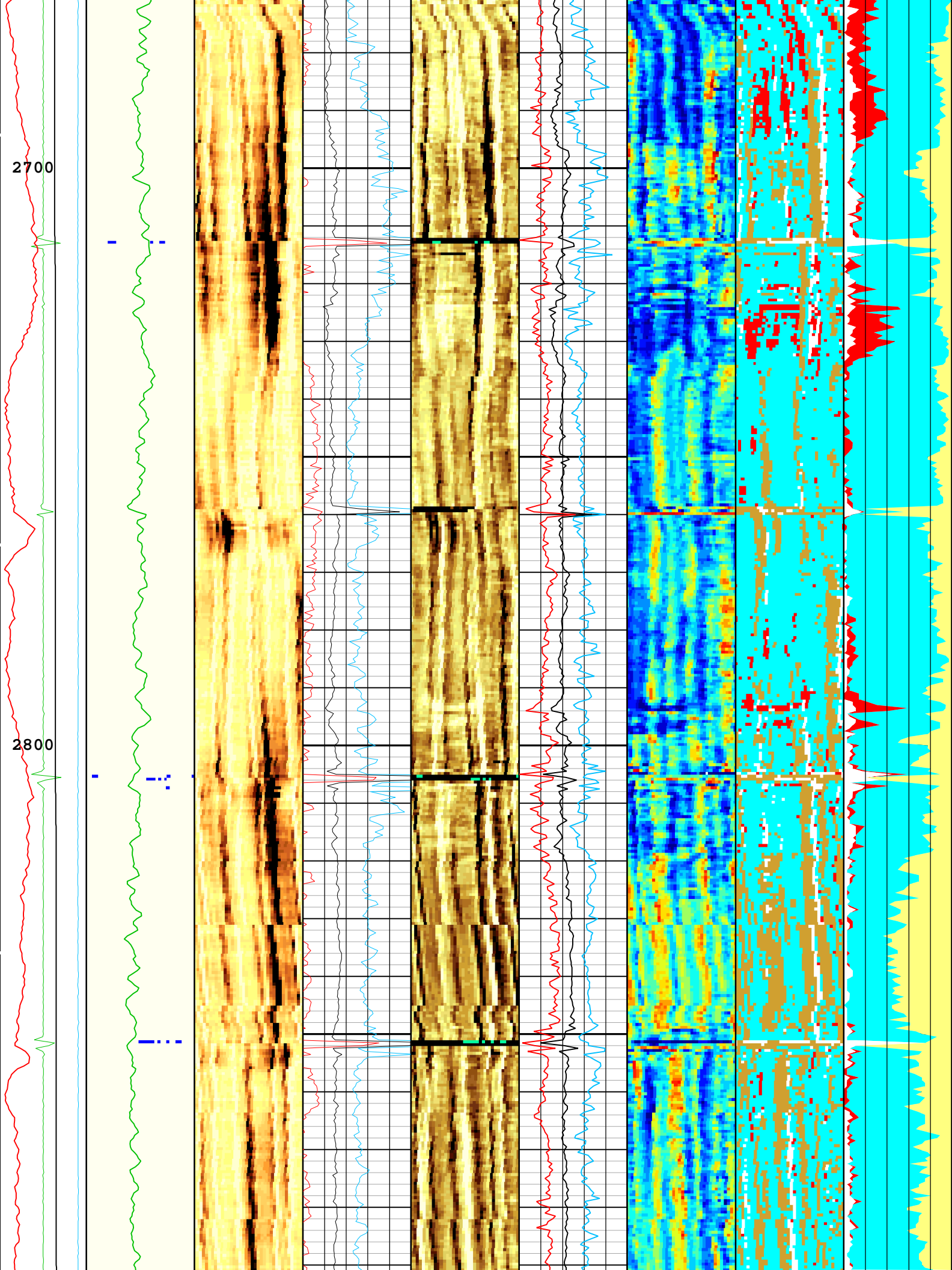


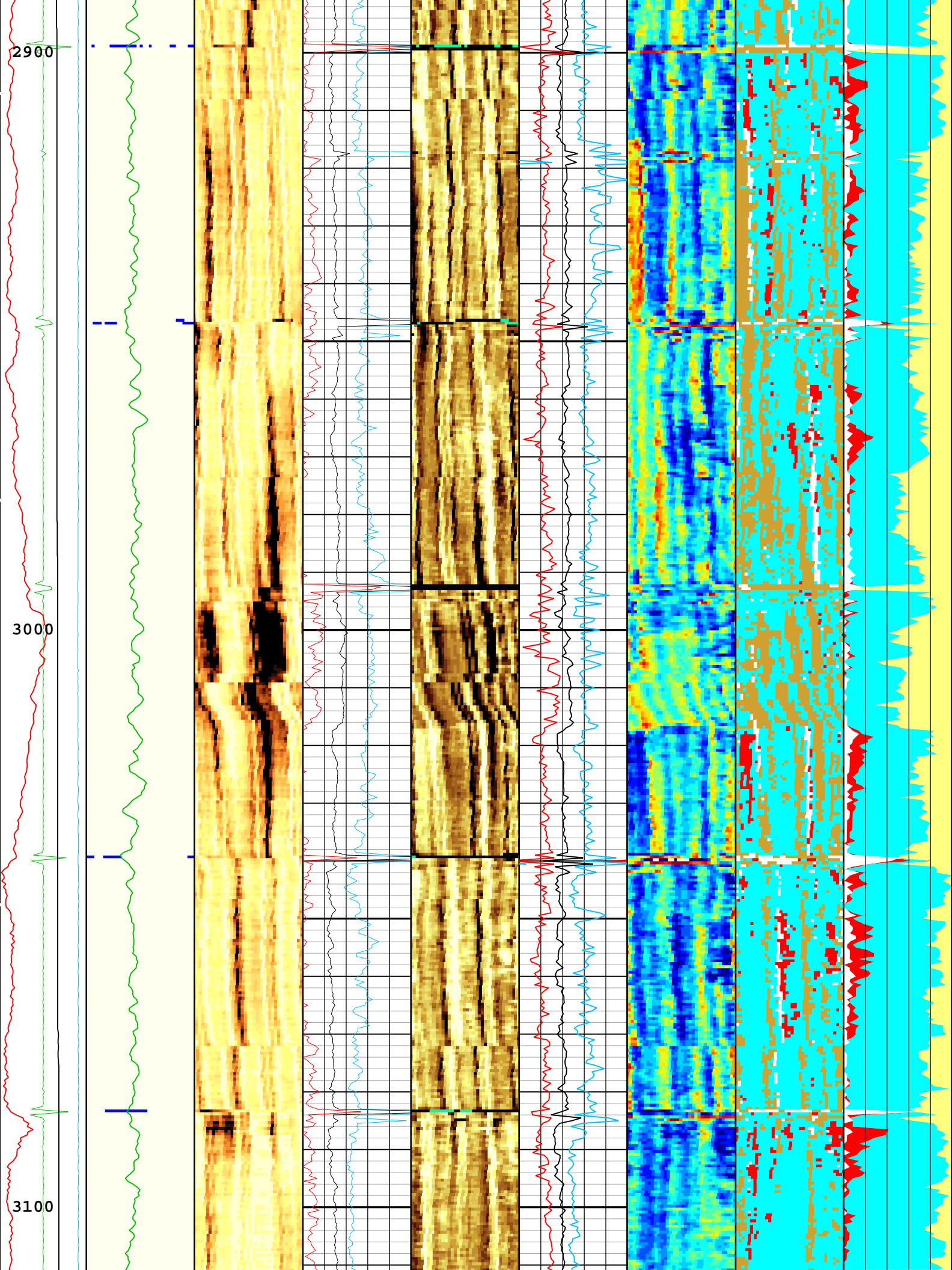


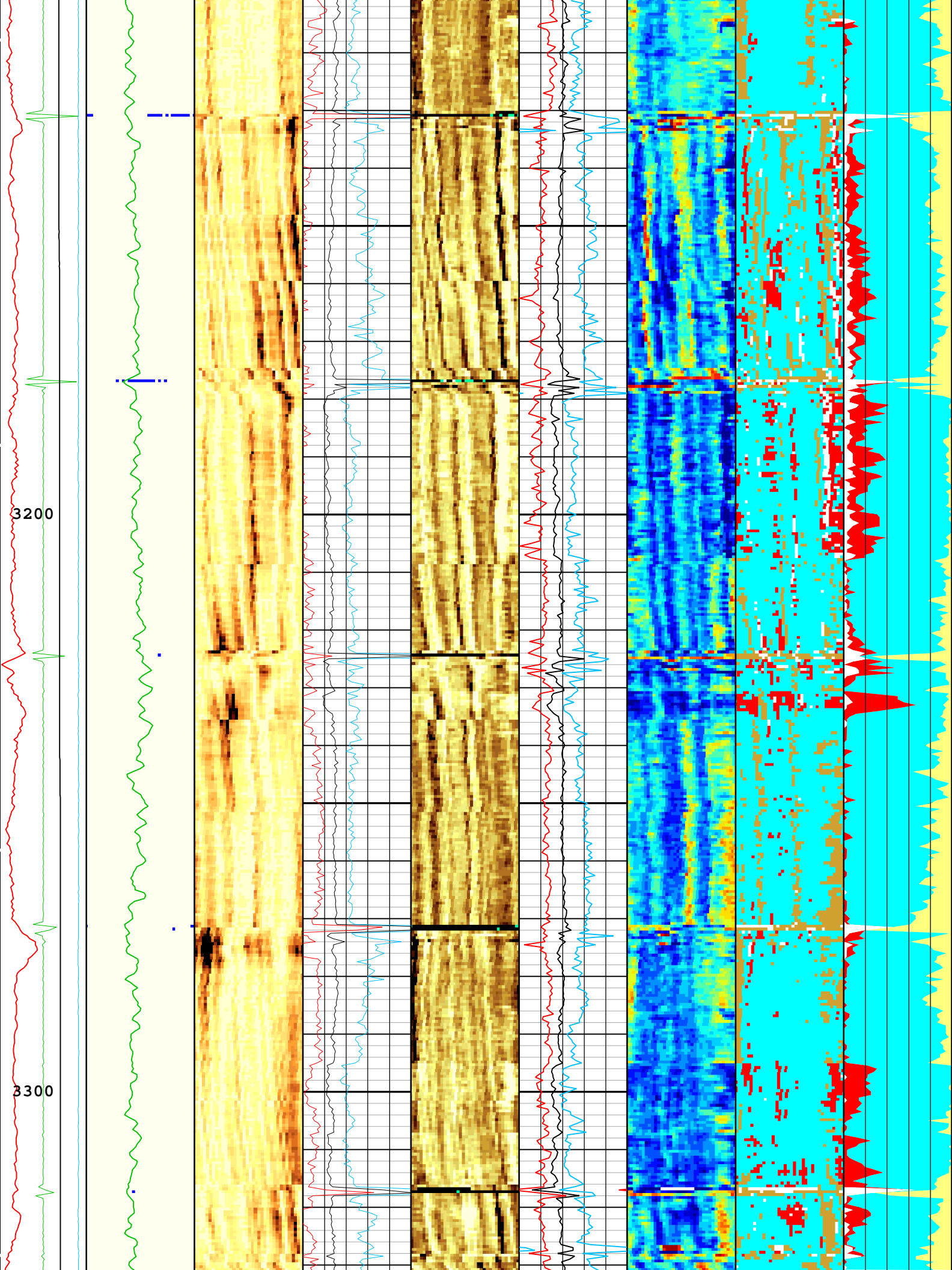


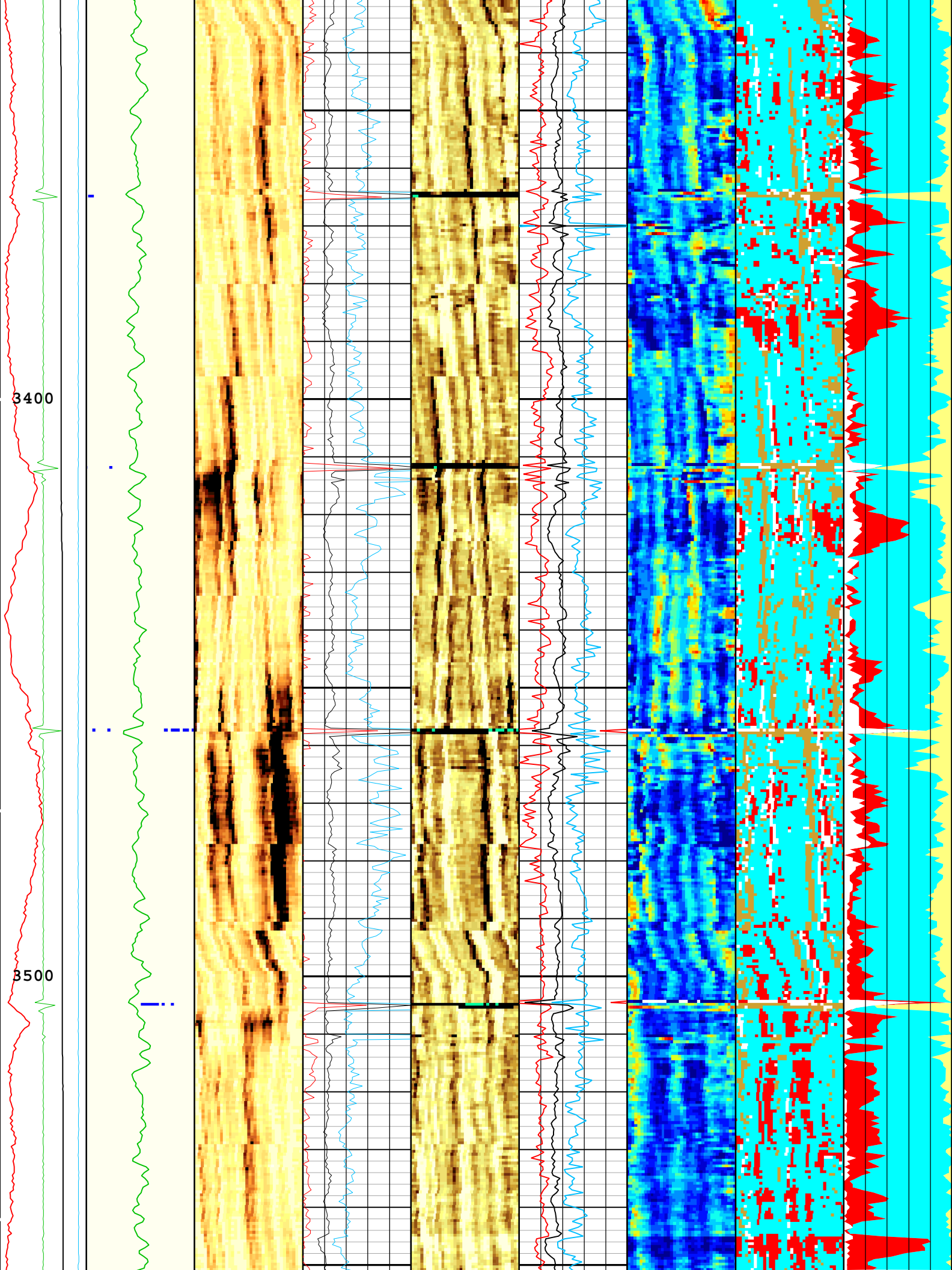


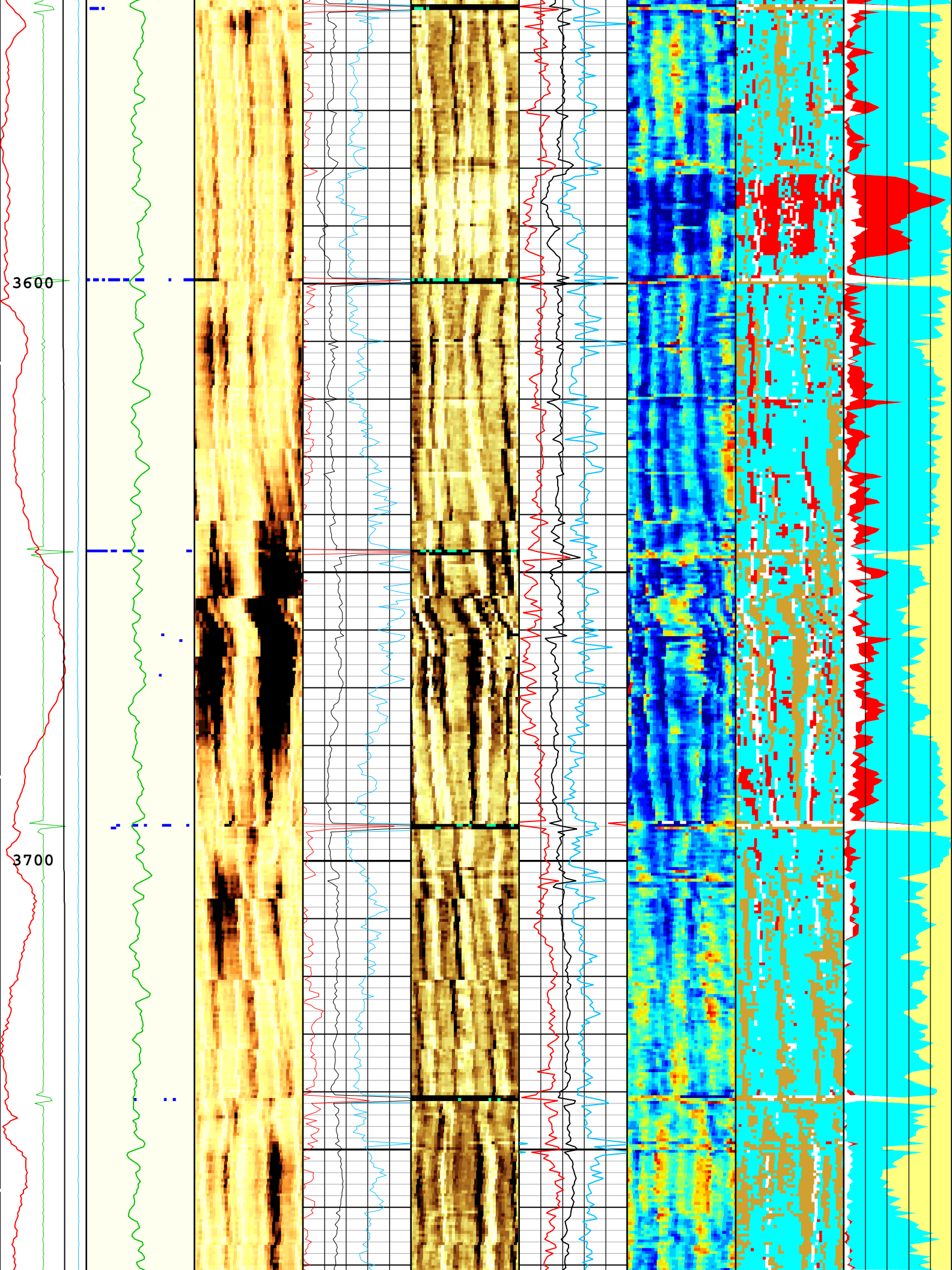


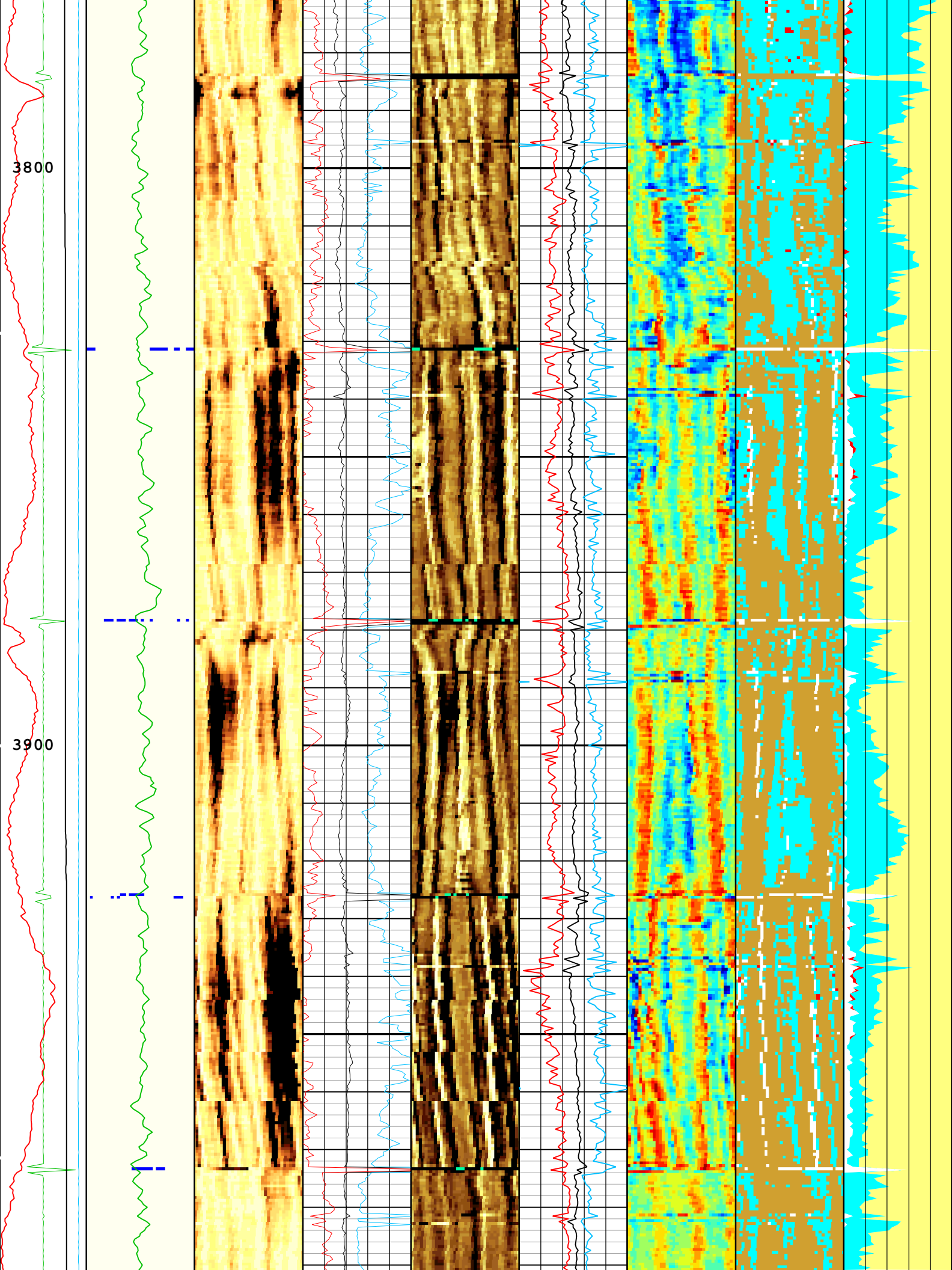


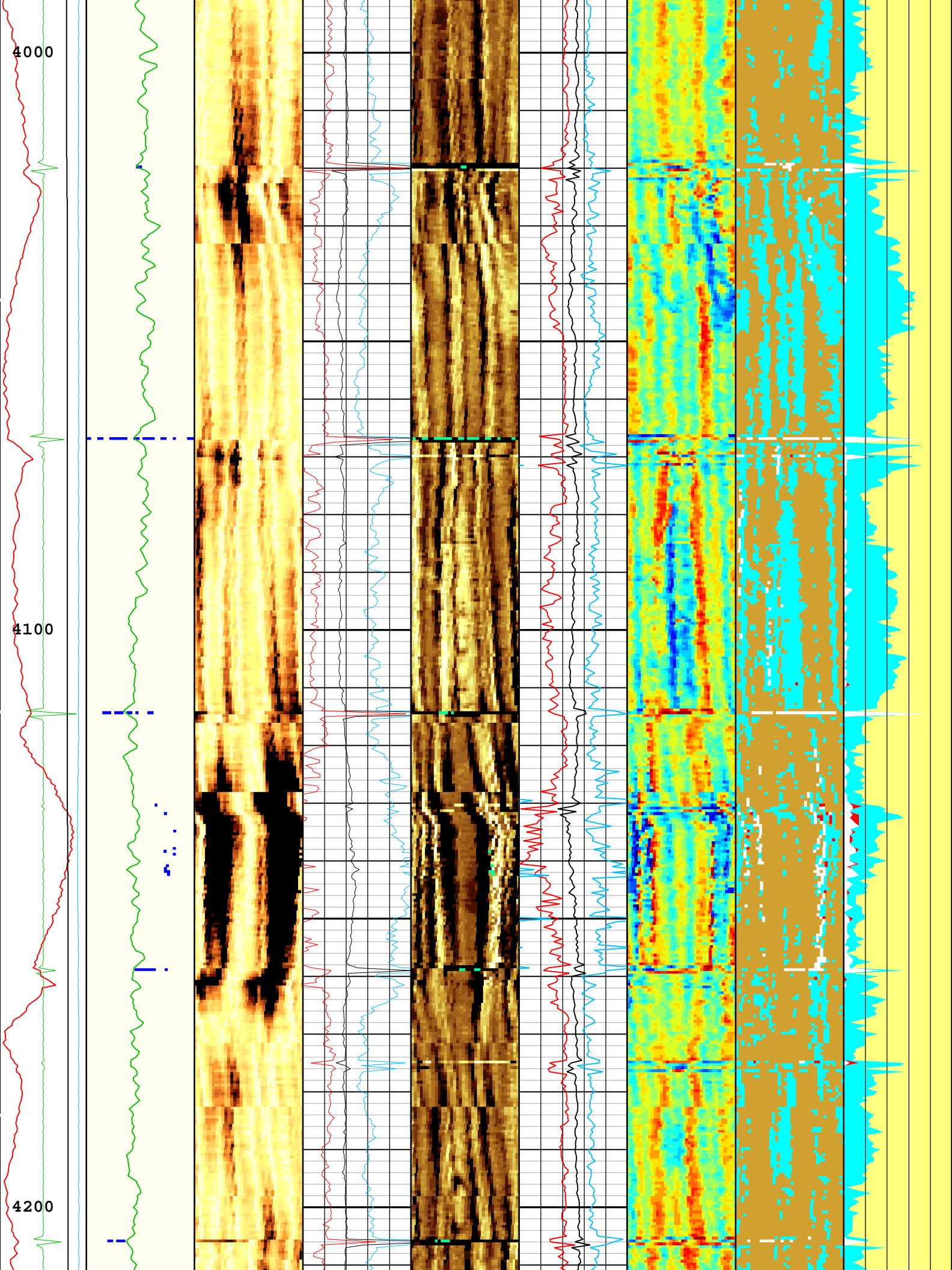


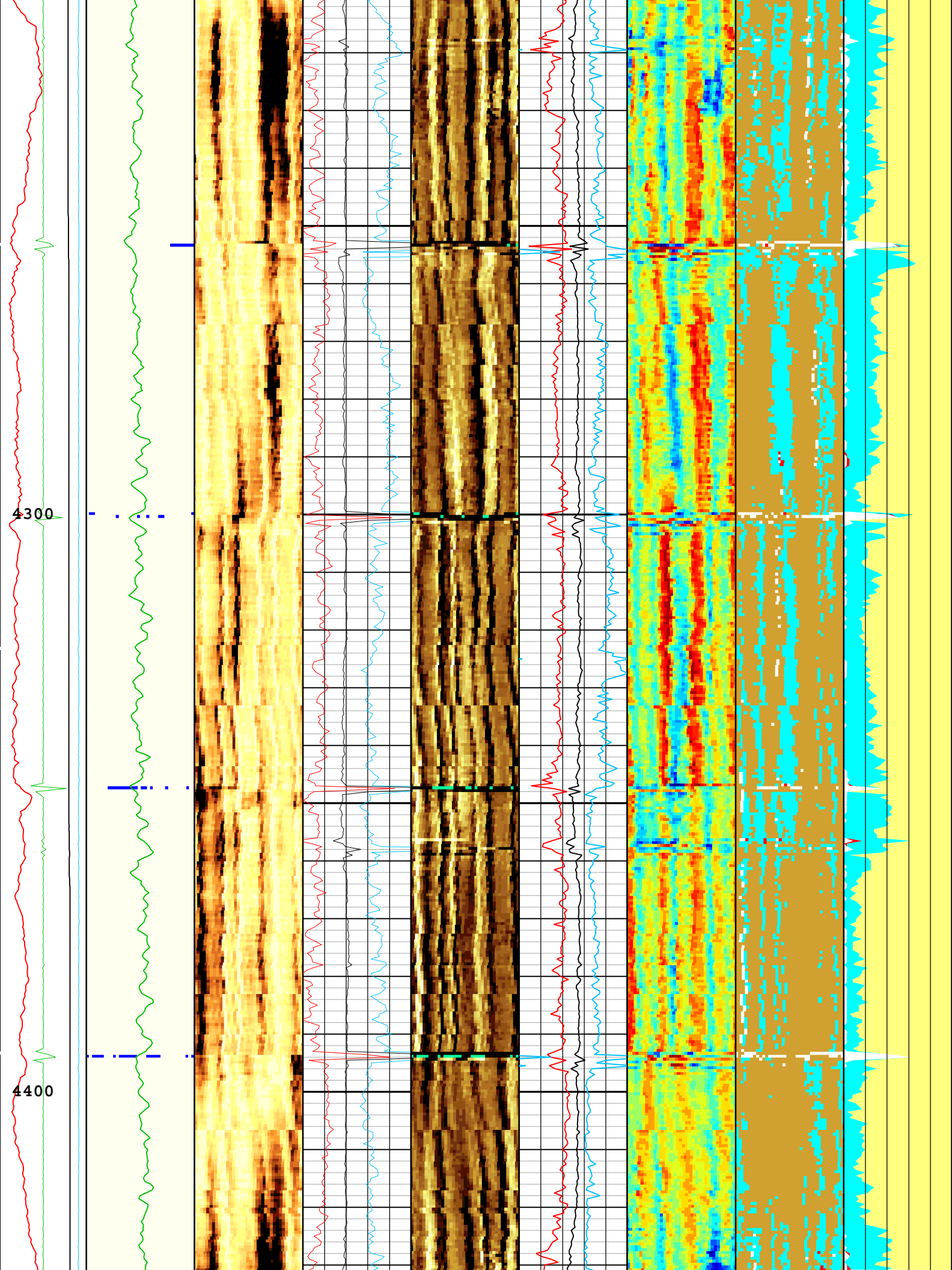


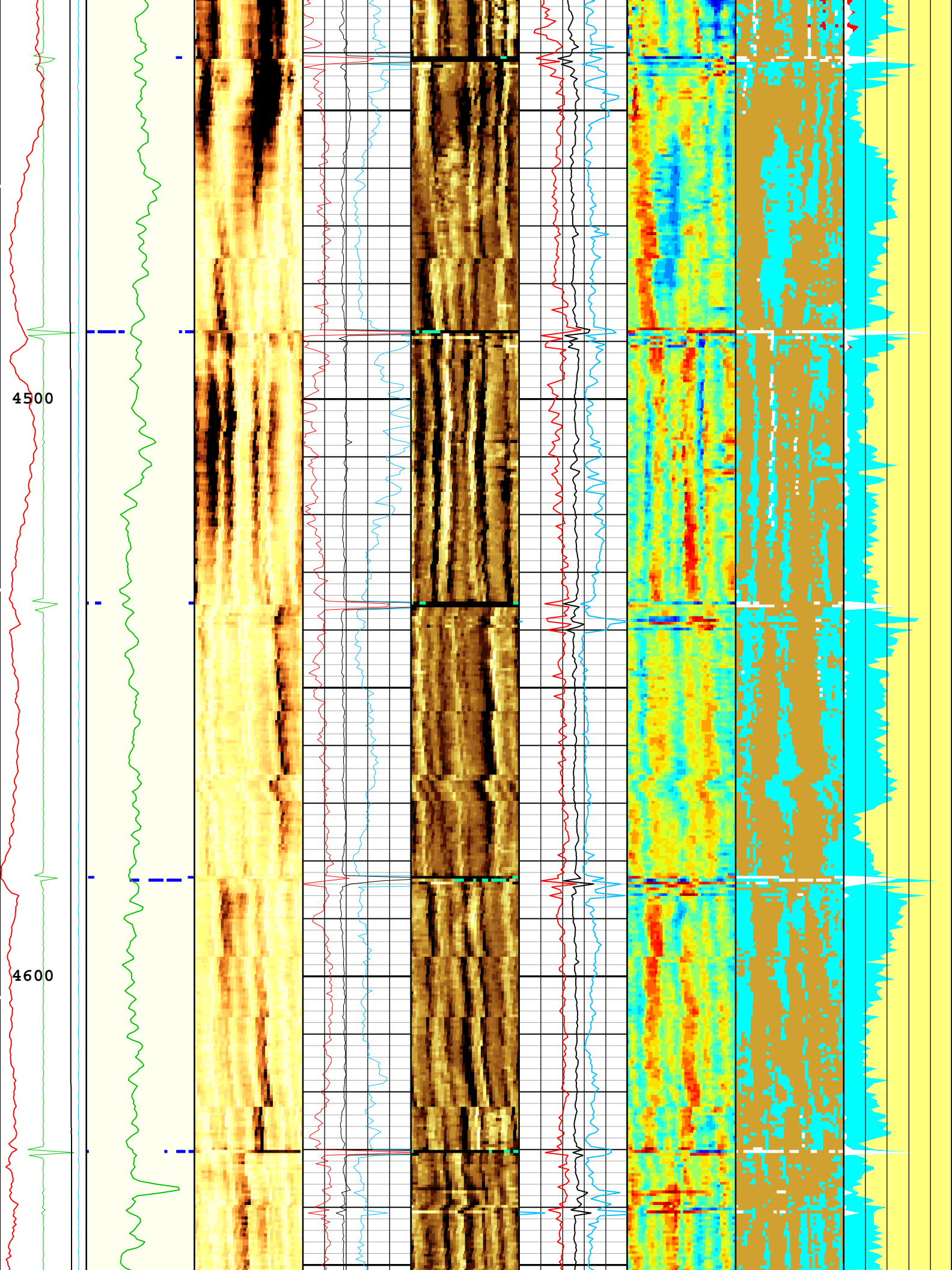


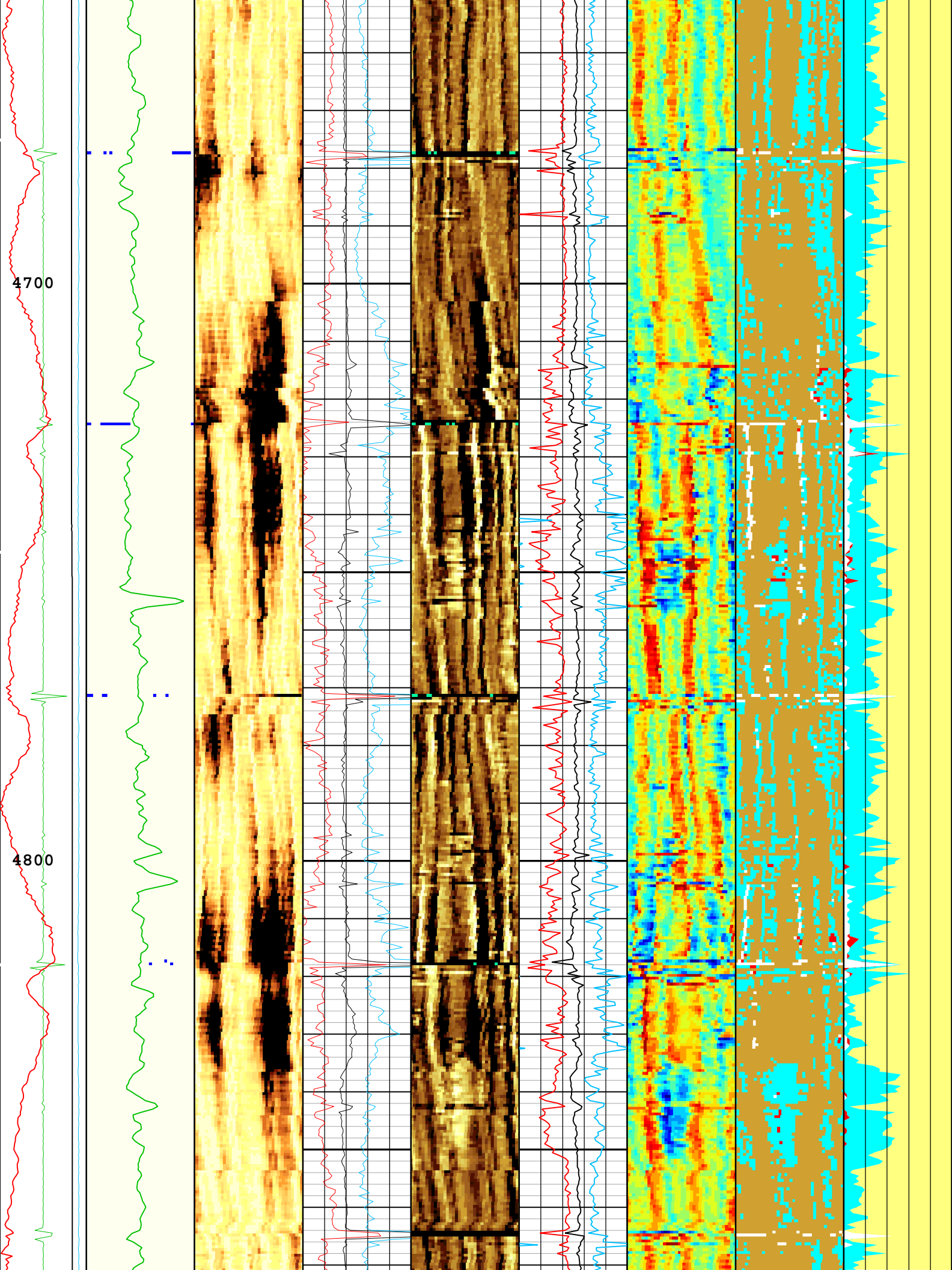


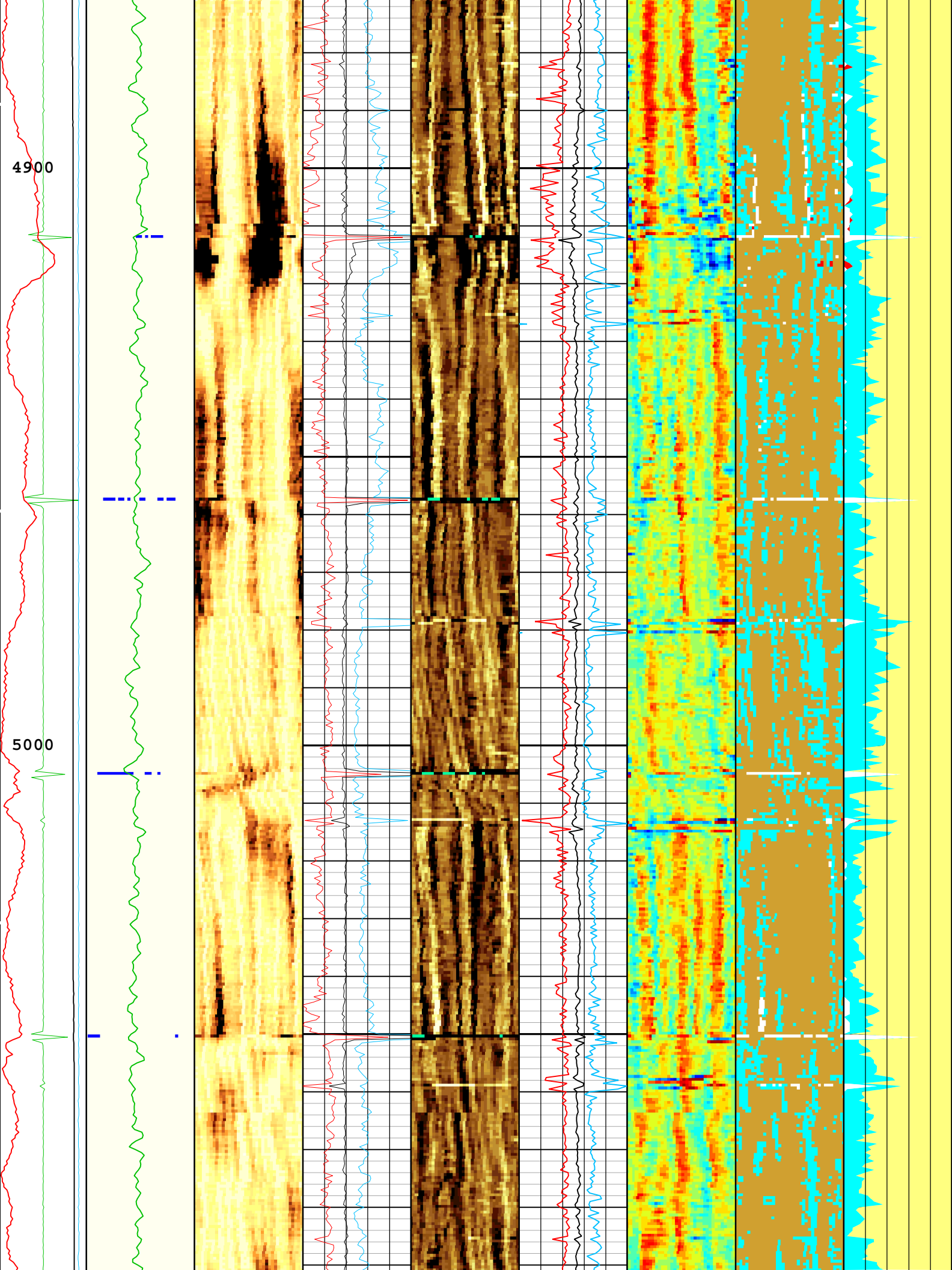


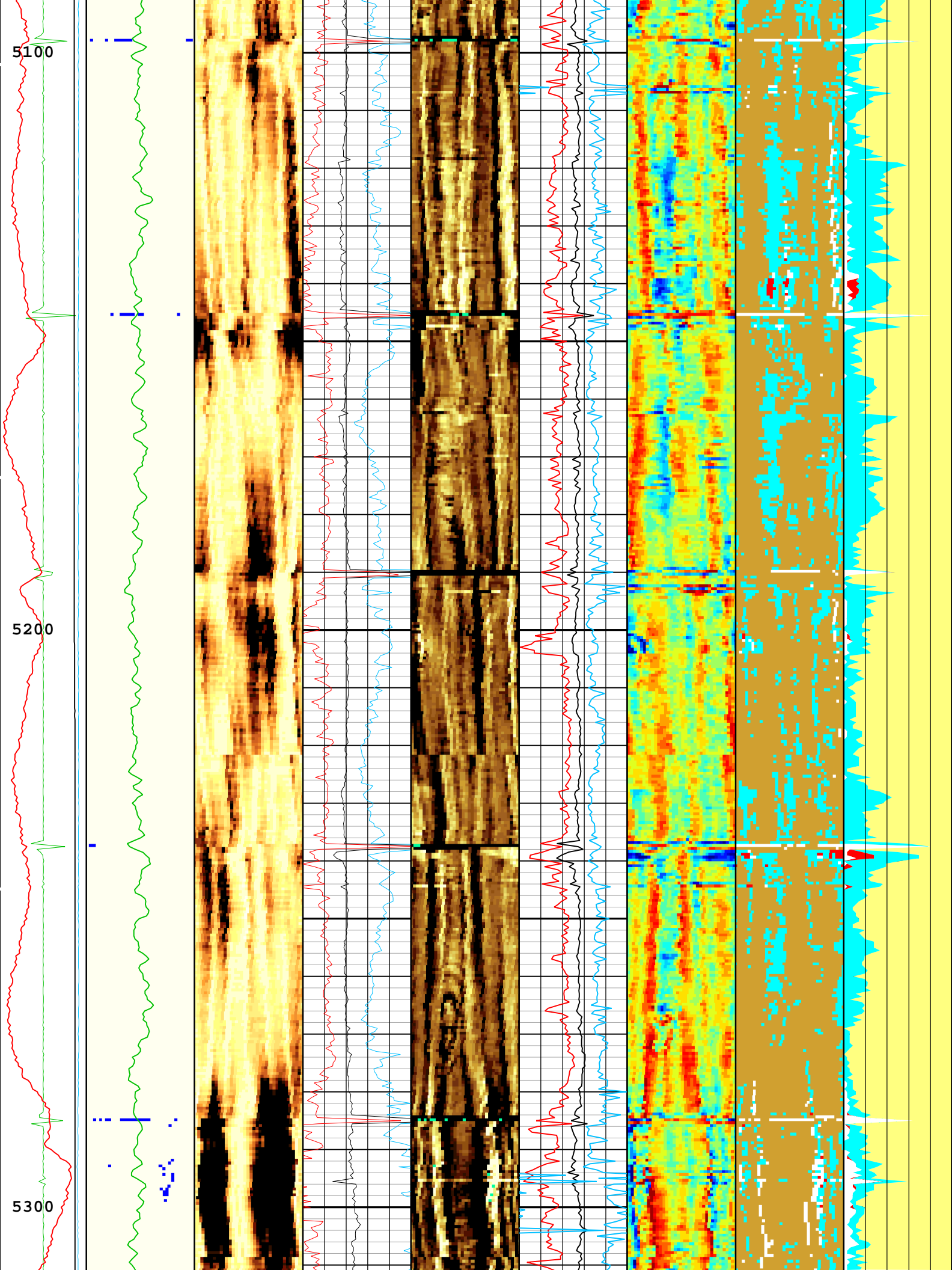


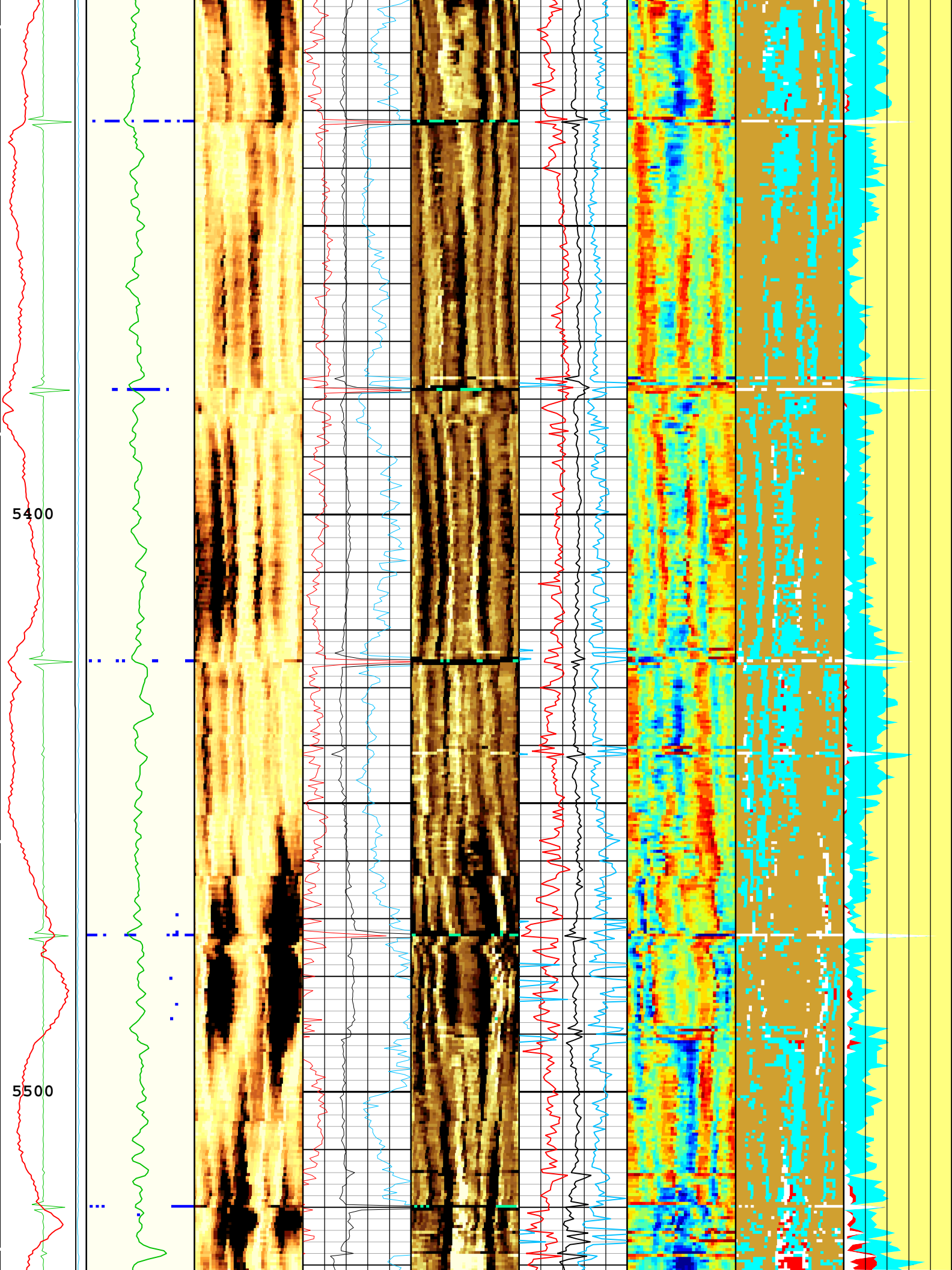


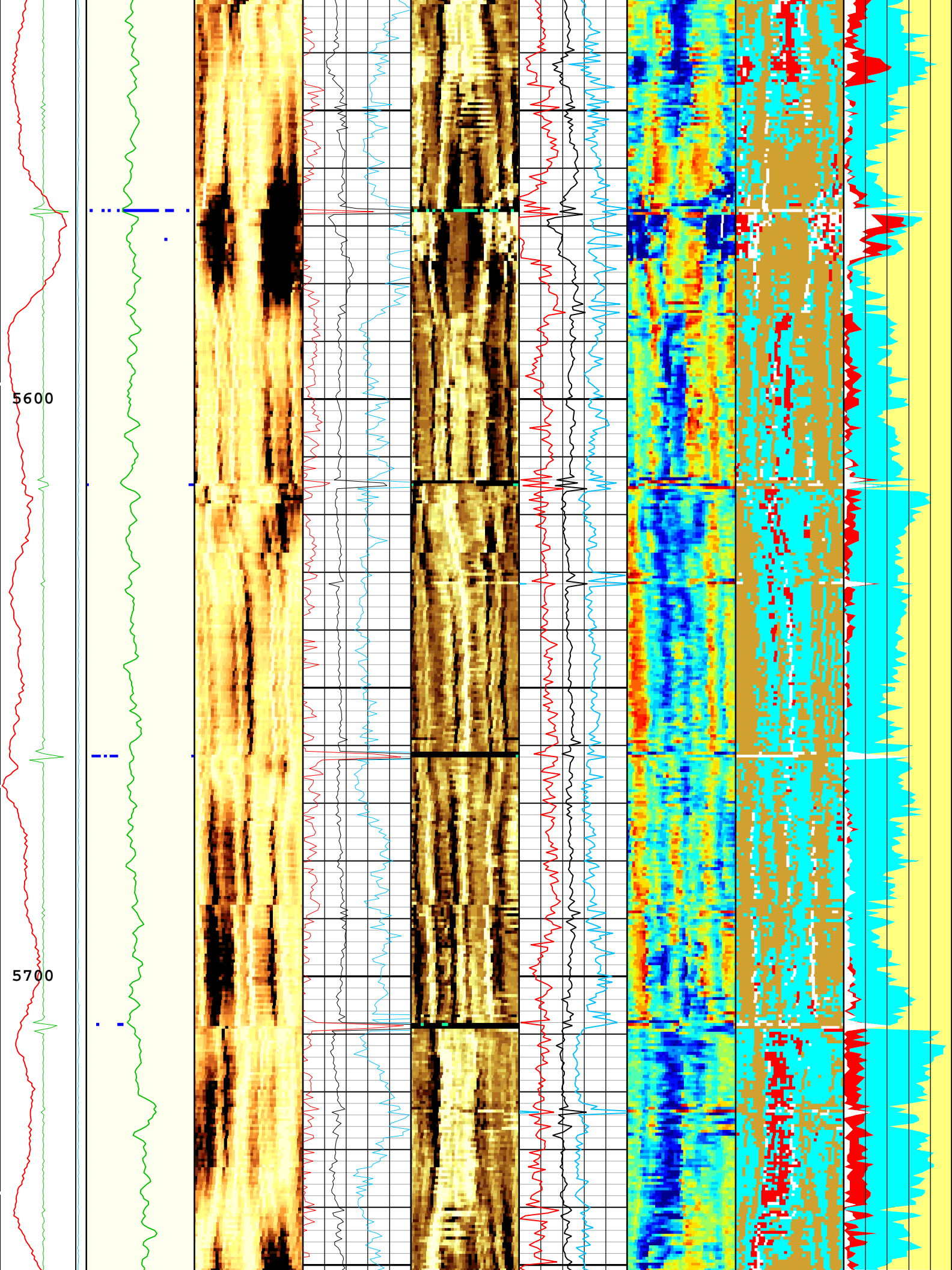


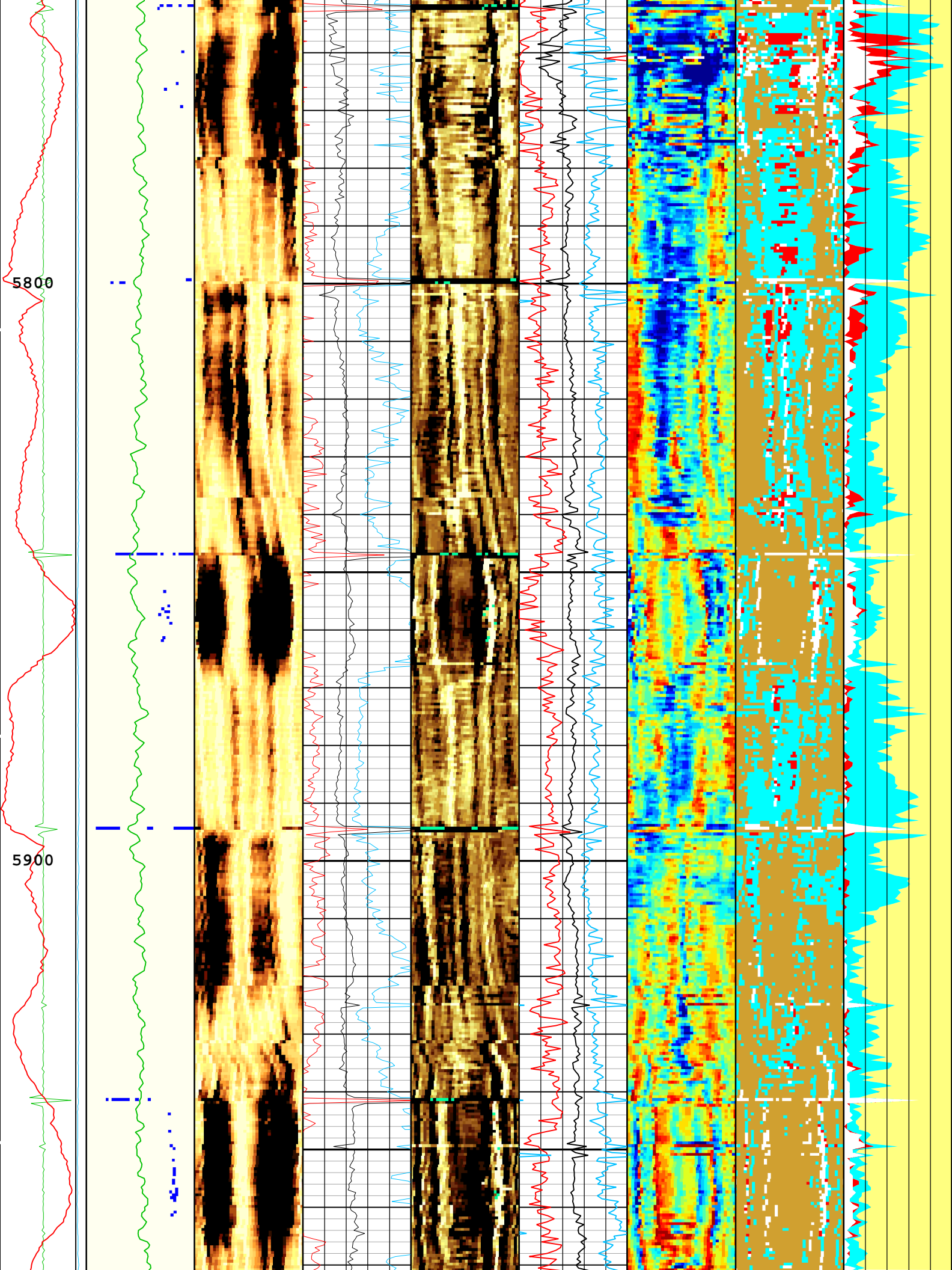


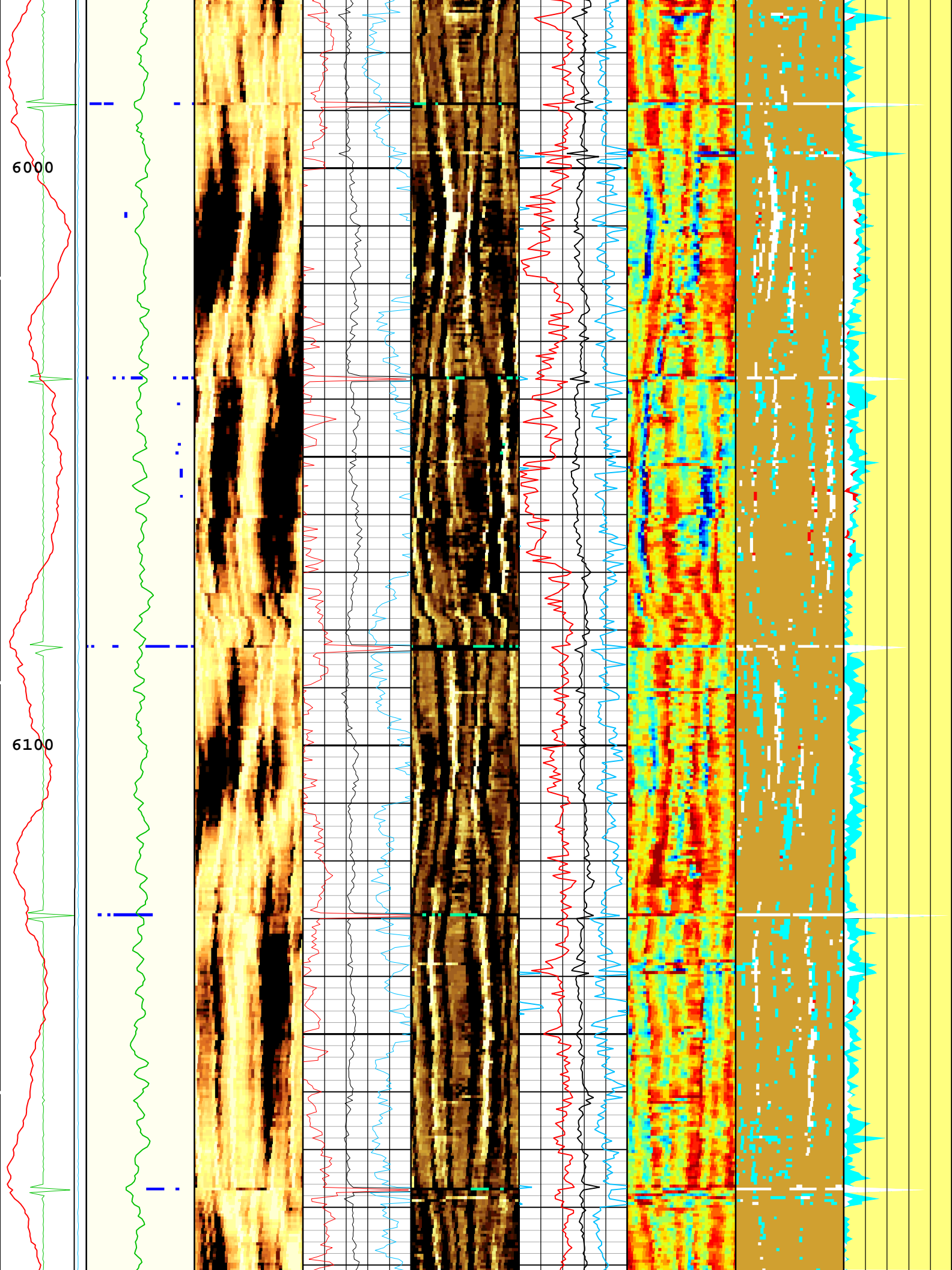


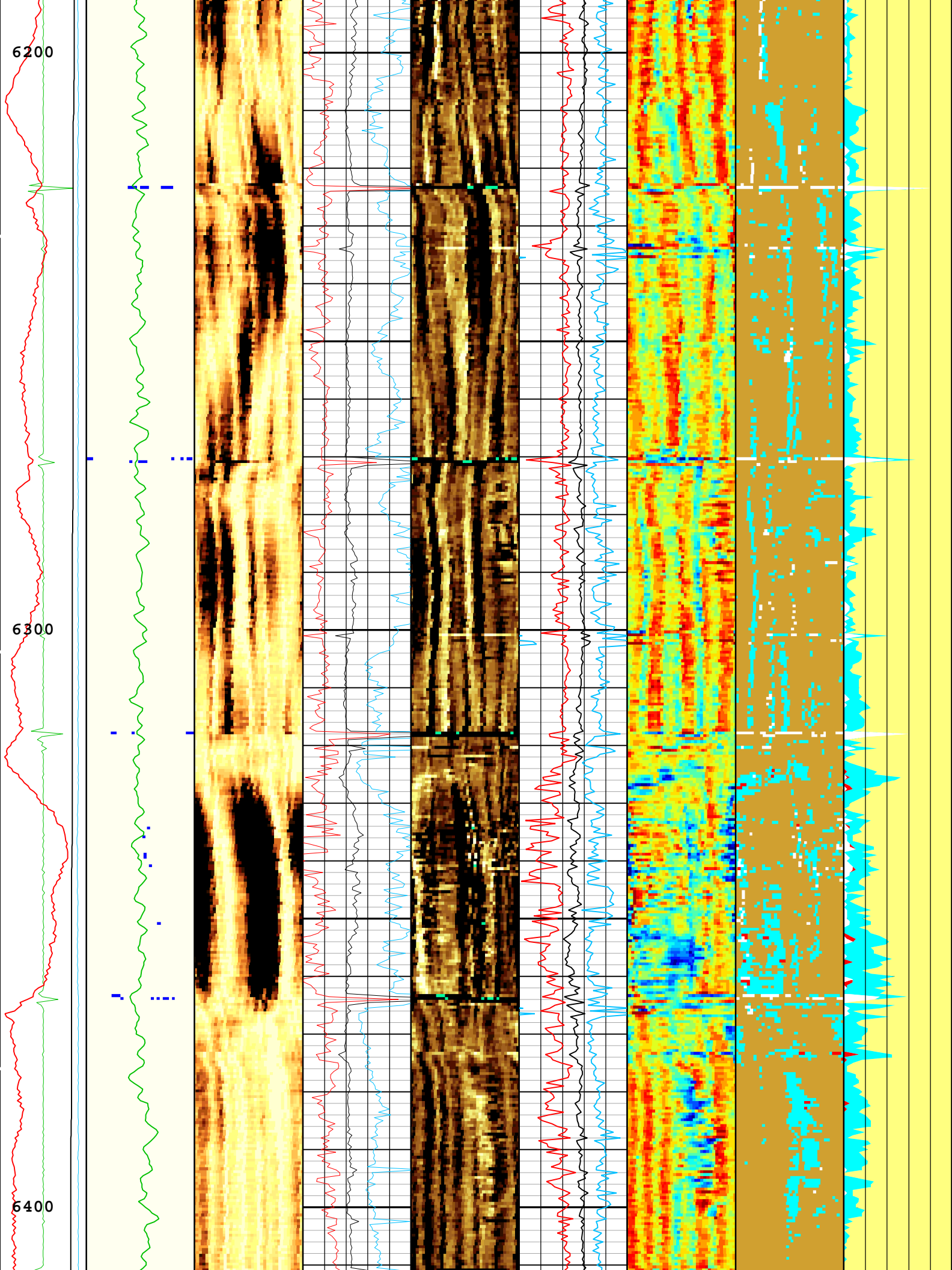


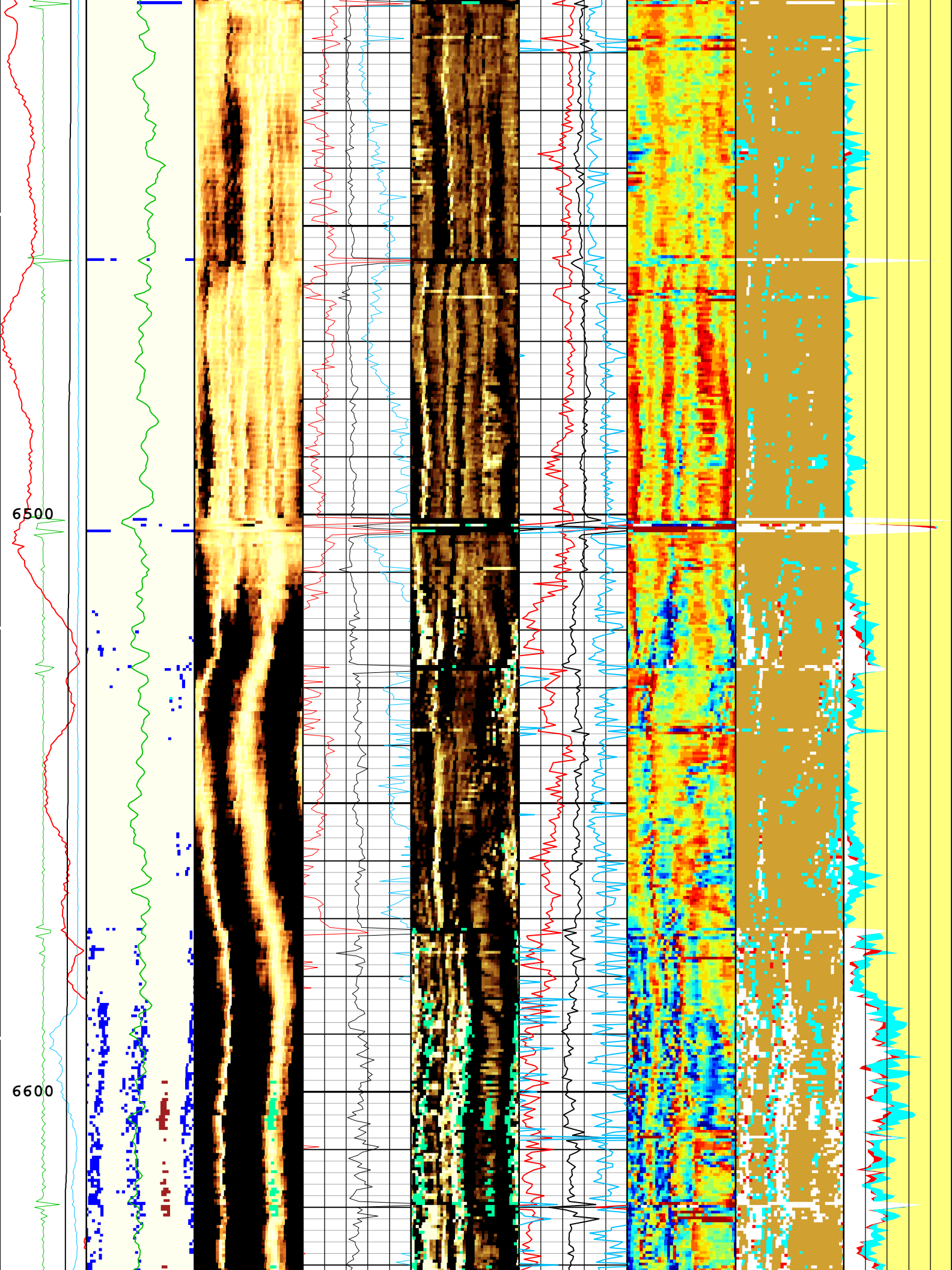


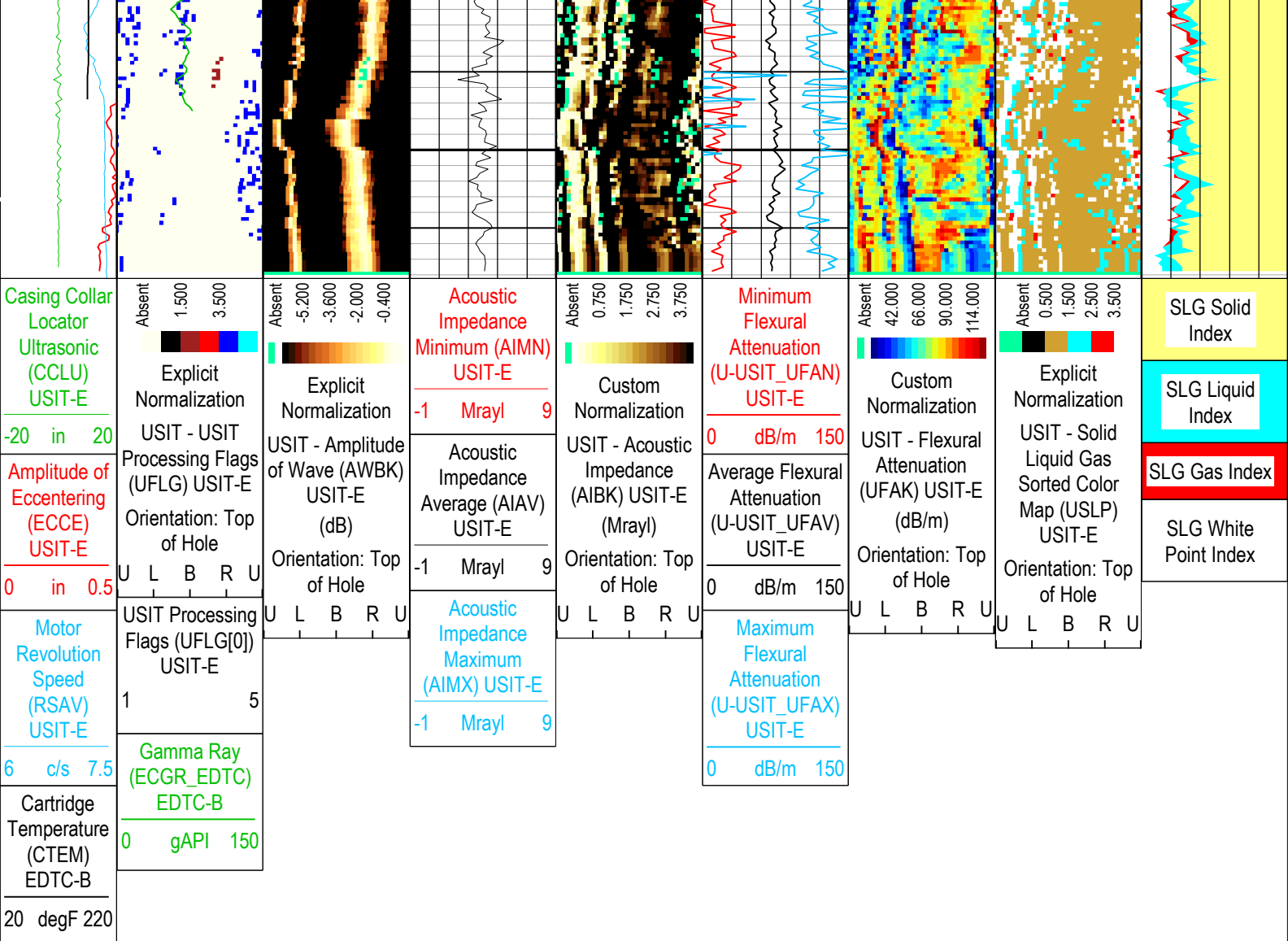

















TIME_1900 - Time Marked every 60.00 (s)

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

- 1 - UFLG 1 Value within [0.0 - 1.5] - :  UTIM Error
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- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :  Casing Thickness Error
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Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 21:24:07

Channel Processing Parameters

ONE: 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 | Open | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CASING_PRATIO | Casing Poisson Ratio | USIT-E | Standard Poisson Ratio | |
| CBLO | Casing Bottom (Logger) | WLSESSION | 14655 | ft |
| CDEN | Cement Density | USIT-E | 12.5 | 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 | 8.4 | 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 | -35.96 | 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 | Inversion Norm. | |
| ICE_PROCESS | ICE Processing | USIT-E | Yes | |
| IMAR | Image Rotation | USIT-E | RB | |
| MEAS_WLEN | Tcube Processing Window Length in Measurement Mode | USIT-E | 22.44 | us |
| MUD_N_FRP | Free Pipe Mud Normalization Factor | USIT-E | 1.21 | |
| MUD_N_INV | IBC Inversion Mud Normalization Factor | USIT-E | 1.19 | |
| 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 | 1.68 | Mrayl |
| U-USIT_UFAO | SIT Flexural Attenuation Offset | USIT-E | -35.5 | 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 | 1.74 | Mrayl |
| ZTCM | Acoustic Impedance Threshold for Cement | USIT-E | 2.6 | Mrayl |
| ZTGS | Acoustic Impedance Threshold for Gas | USIT-E | 0.3 | Mrayl |

Depth Zone Parameters

| Parameter | Value | Start (ft) | Stop (ft) |
|-----------------------|-------|--------------|-------------|
| BS | 13.5 | 55 | 2155 |
| BS | 8.5 | 2155 | 6666.5 |
| All depth are actual. | | | |

Tool Control Parameters

ONE: 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 | |
| DQT(DQS) | Distance between Opposite Transducer Faces | USIT-E | 1.756 | in |

| | | | | |
|---------------|--|--------|------------------|----|
| DOT(DOS) | Distance between Opposite Transducer Faces | USIT-E | 1.730 | in |
| EMXV | EMEX Voltage | USIT-E | 60 | 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 | 177 | 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 | 75.23 | us |

| Time Zone Parameters | | | | | |
|-----------------------------|--------|----------------------|----------------------|--------------------|-------------------|
| Parameter | Value | Start Time | Stop Time | Start Depth (ft) | Stop Depth (ft) |
| U-USIT_UFWB | 137 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:14:43 | 6667.15 | 6609.37 |
| U-USIT_UFWB | 126.32 | 19-Sep-2018 15:14:43 | 19-Sep-2018 15:29:29 | 6609.37 | 5563.11 |
| U-USIT_UFWB | 133.37 | 19-Sep-2018 15:29:29 | 19-Sep-2018 16:50:42 | 5563.11 | 54.61 |
| U-USIT_UNWB | 106 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:14:49 | 6667.15 | 6603.38 |
| U-USIT_UNWB | 100.51 | 19-Sep-2018 15:14:49 | 19-Sep-2018 15:29:34 | 6603.38 | 5557.19 |
| U-USIT_UNWB | 102.86 | 19-Sep-2018 15:29:34 | 19-Sep-2018 16:50:42 | 5557.19 | 54.61 |
| U-USIT_UNWE | 146 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:30:34 | 6667.15 | 5486.45 |
| U-USIT_UNWE | 142.75 | 19-Sep-2018 15:30:34 | 19-Sep-2018 16:50:42 | 5486.45 | 54.61 |
| All depth are at tool zero. | | | | | |

| |
|-----|
| ONE |
|-----|

| |
|-------------------|
| IBC SLG Composite |
|-------------------|

| Pass Summary | | | | | | | | | |
|--------------|----------------|-----------|----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
| ONE | Log[4]:Up | Up | 54.61 ft | 6667.15 ft | 19-Sep-2018 3:13:20 PM | 19-Sep-2018 4:50:42 PM | ON | 5.43 ft | Yes |

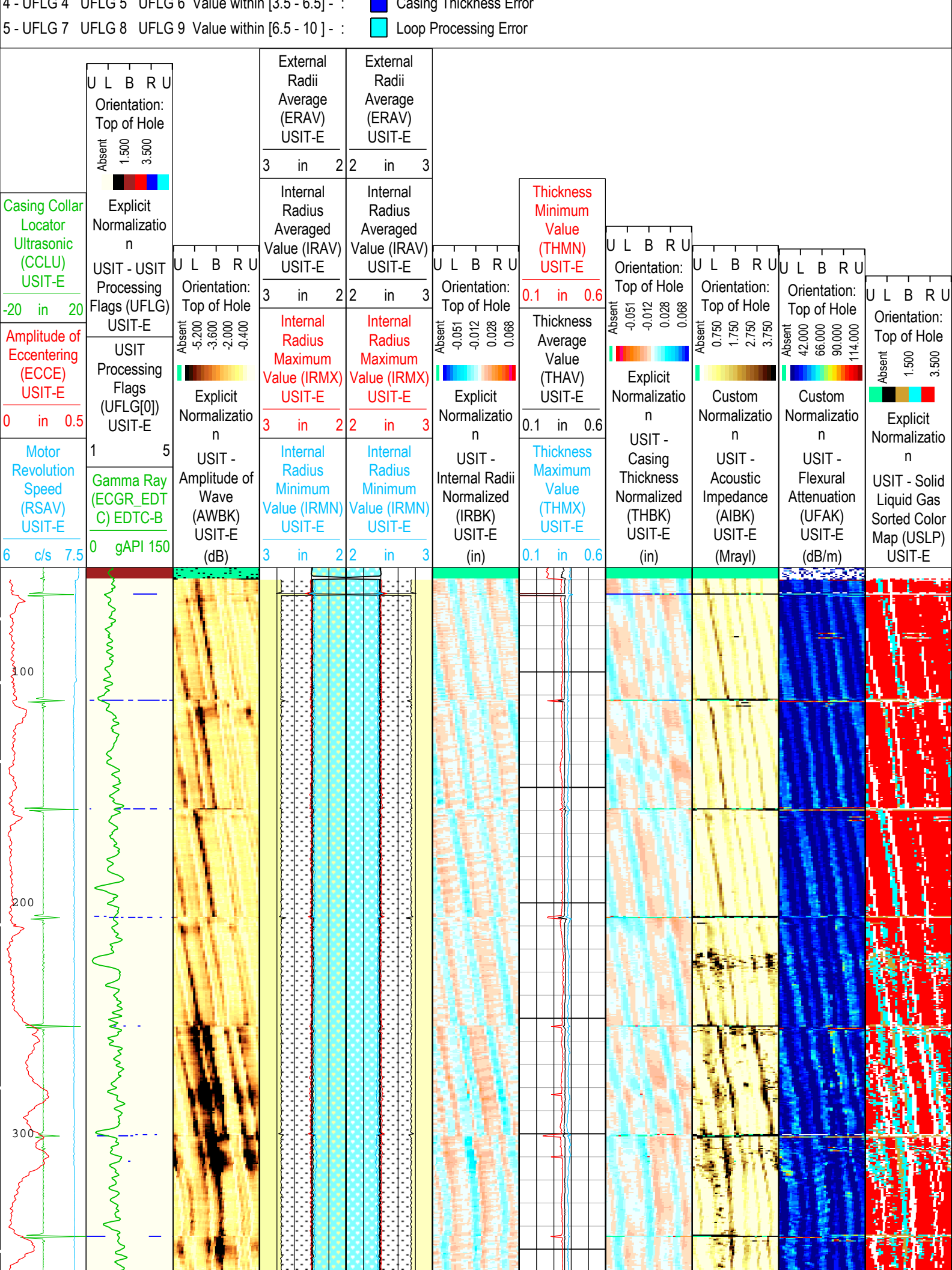
| |
|--|
| All depths are referenced to toolstring zero |
|--|

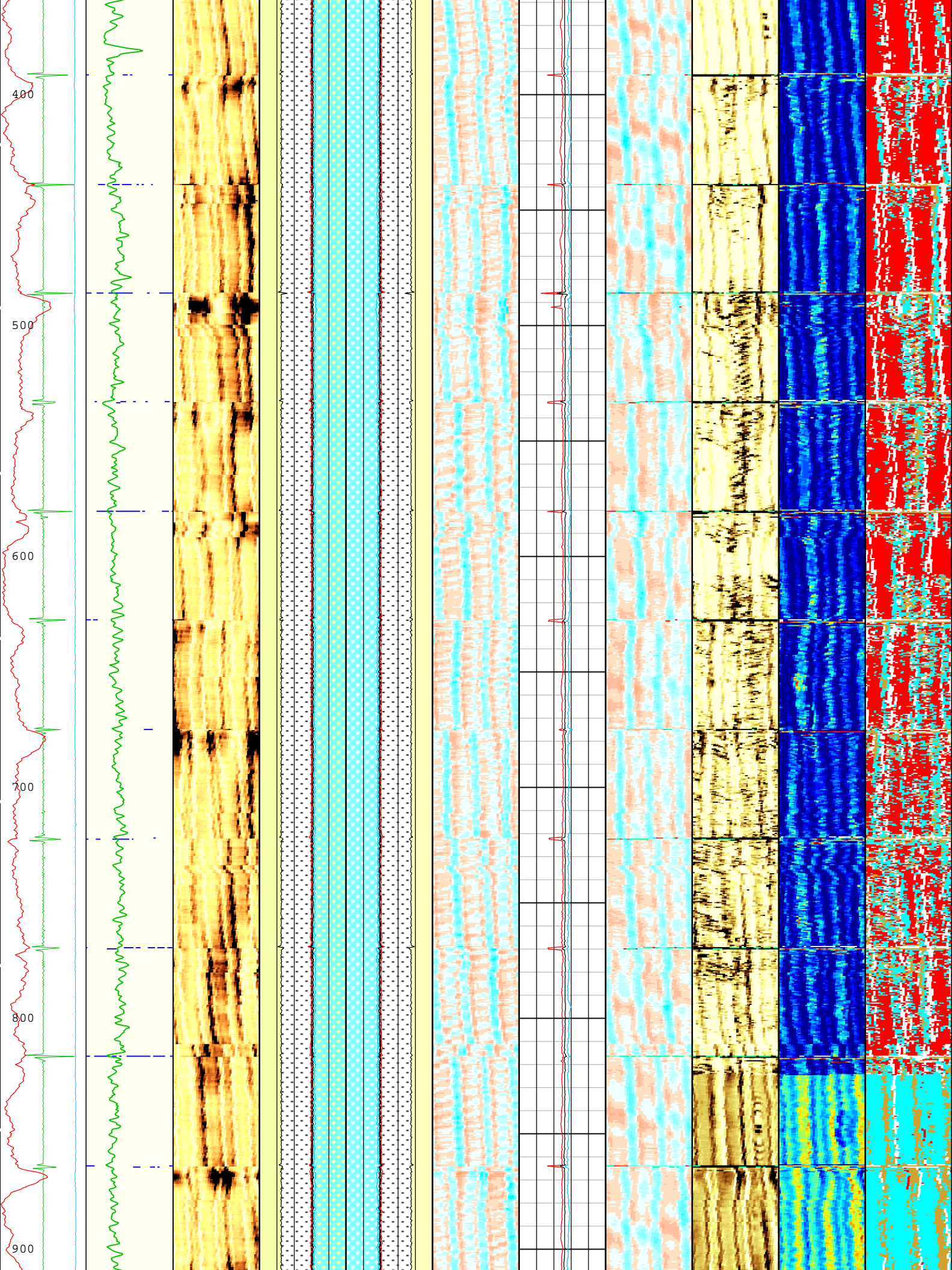
| | | |
|-----|---|-----------------------|
| Log | Company:Crestone Peak Resources Operating LLC | Well:Davis 1E-9H-G266 |
| | | ONE: Log[4]:Up:S007 |

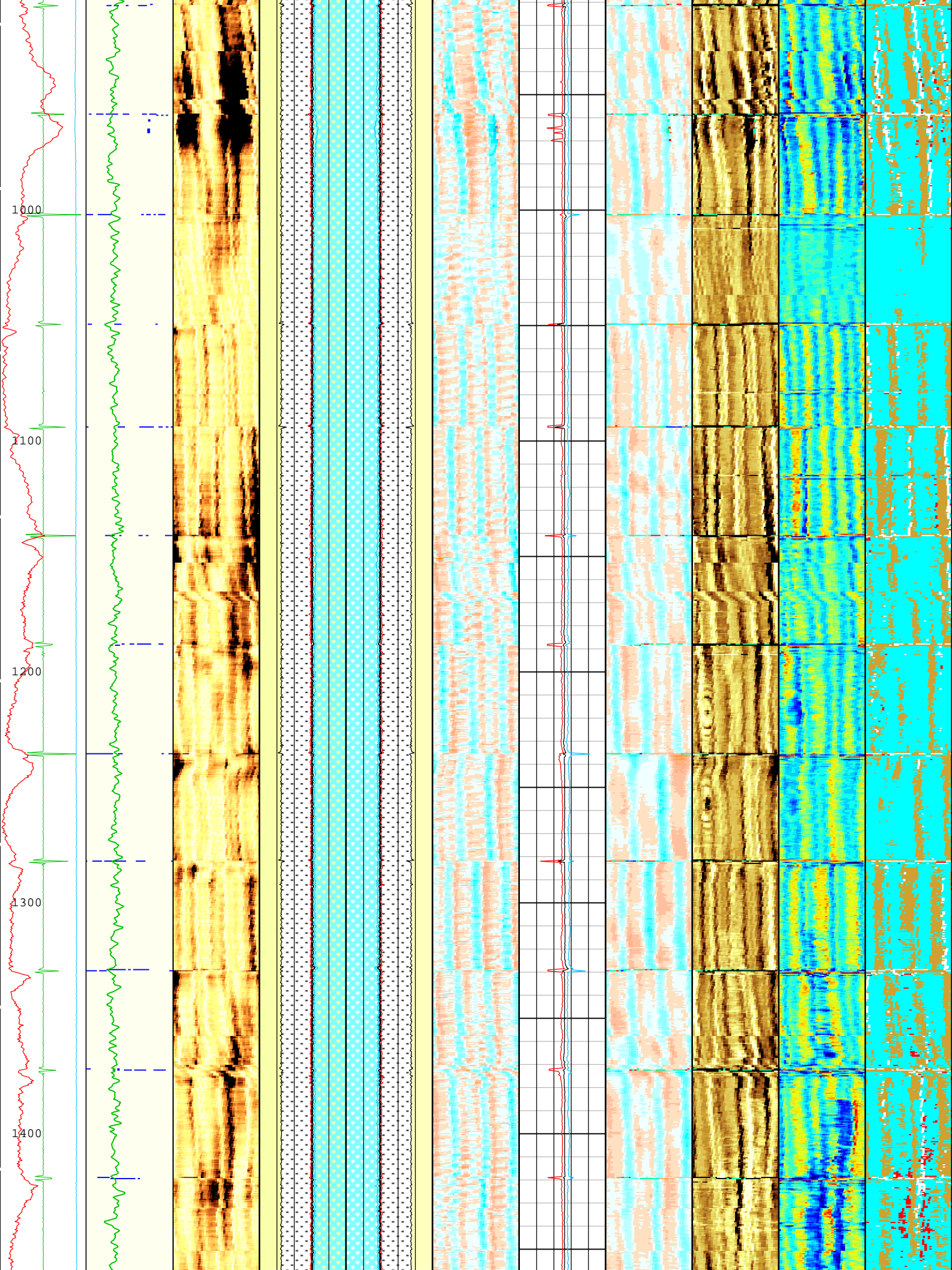
| | | | | |
|-------------------------------------|-----------------------------------|------------------------------|----------------|----------------------------|
| Description: USI IBC SLG Composite | Format: Log (IBC SLG Composite) | Index Scale: 2 in per 100 ft | Index Unit: ft | Index Type: Measured Depth |
| Creation Date: 19-Sep-2018 21:24:55 | | | | |

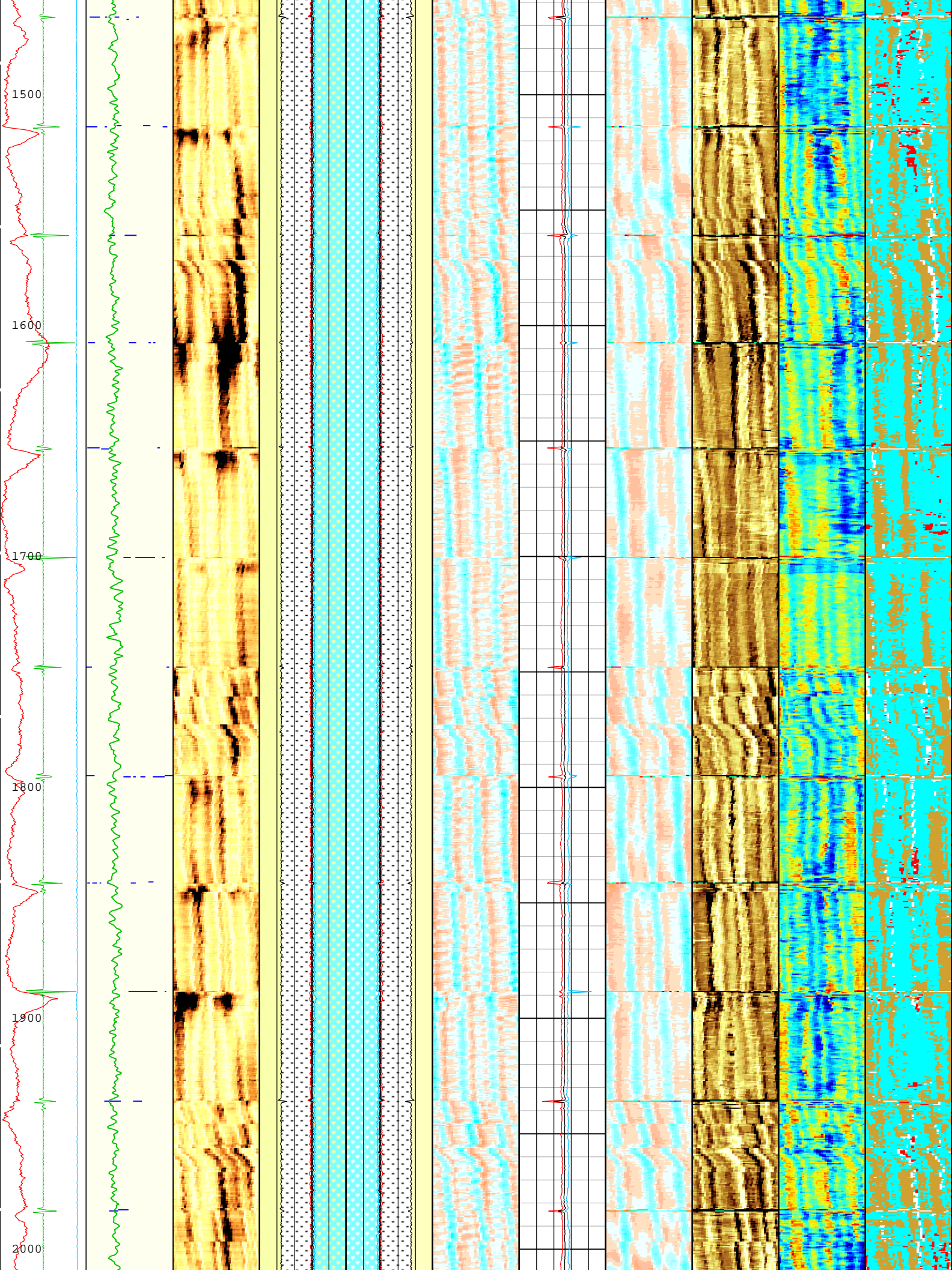
| |
|---|
| TIME_1900 - Time Marked every 60.00 (s) |
|---|

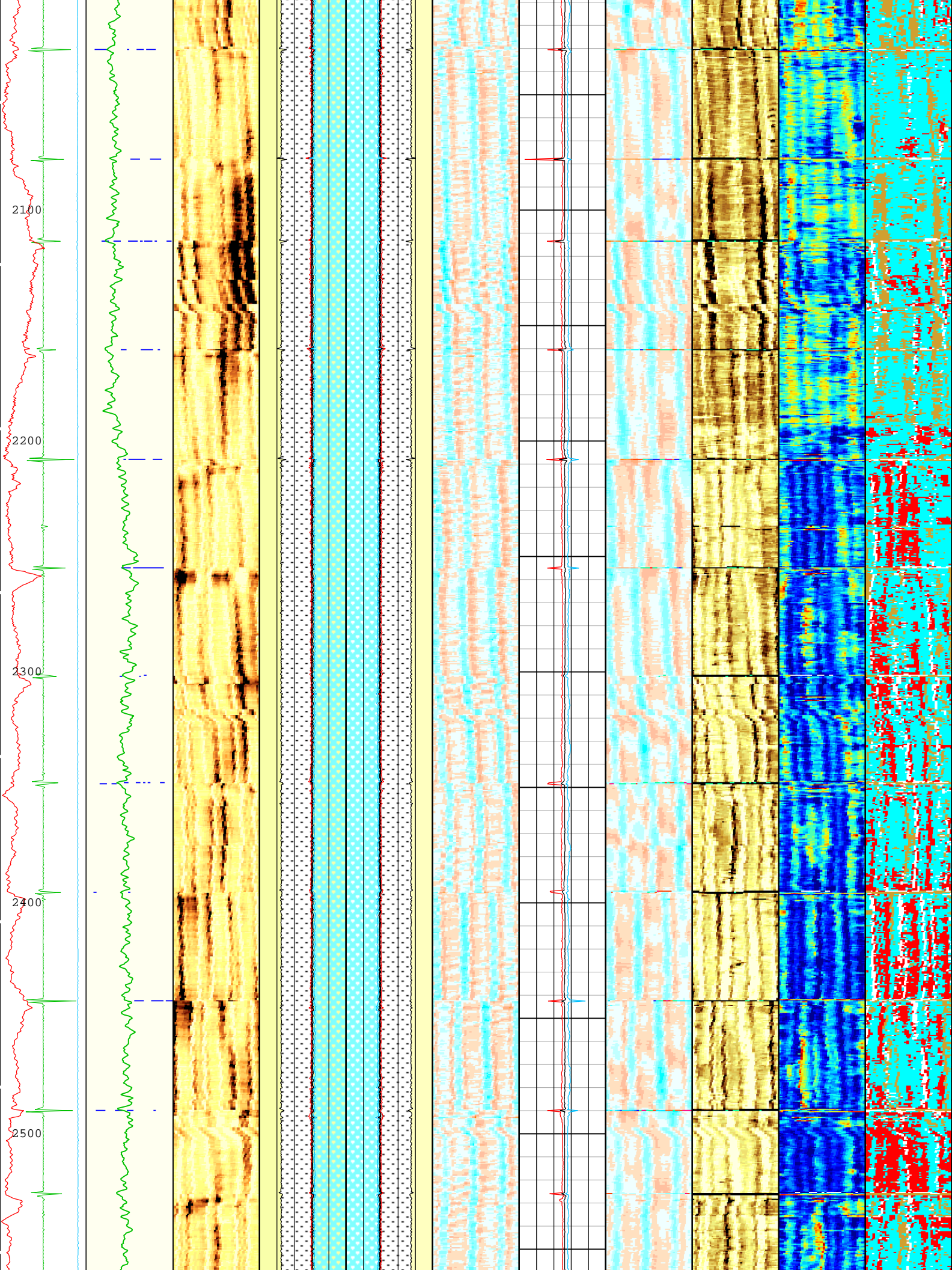
| | |
|---|---------------------------|
| USIT Processing Flags (UFLG[0]) USIT-E | |
| 1 - UFLG 1 Value within [0.0 - 1.5] - : | UTIM Error |
| 2 - UFLG 2 Value within [1.5 - 2.5] - : | Pulse Origin Not Detected |
| 3 - UFLG 3 Value within [2.5 - 3.5] - : | WINLEN Error |
| 4 - UFLG 4 - UFLG 5 - UFLG 6 Value within [3.5 - 6.5] - : | Casing Thickness Error |

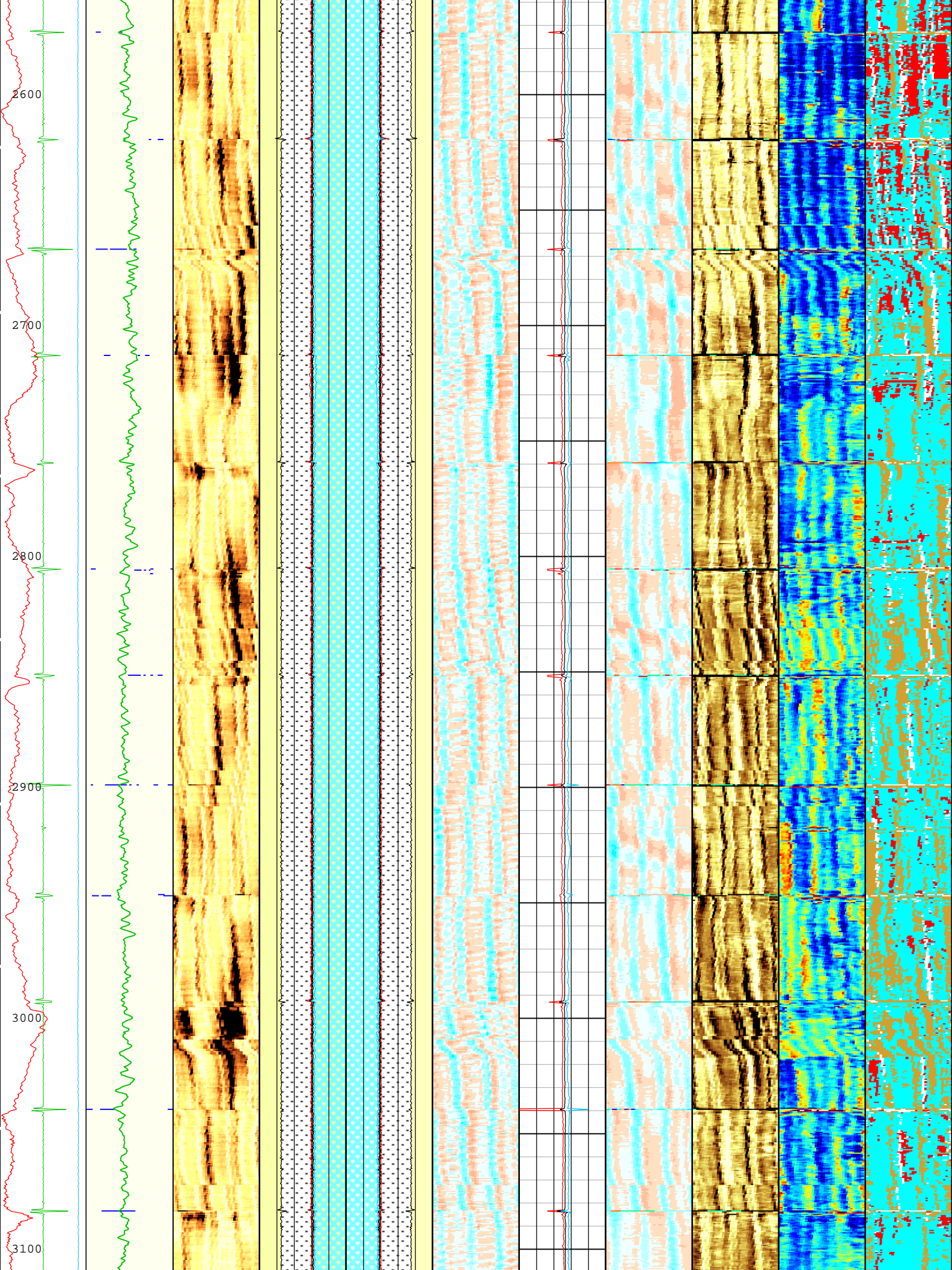


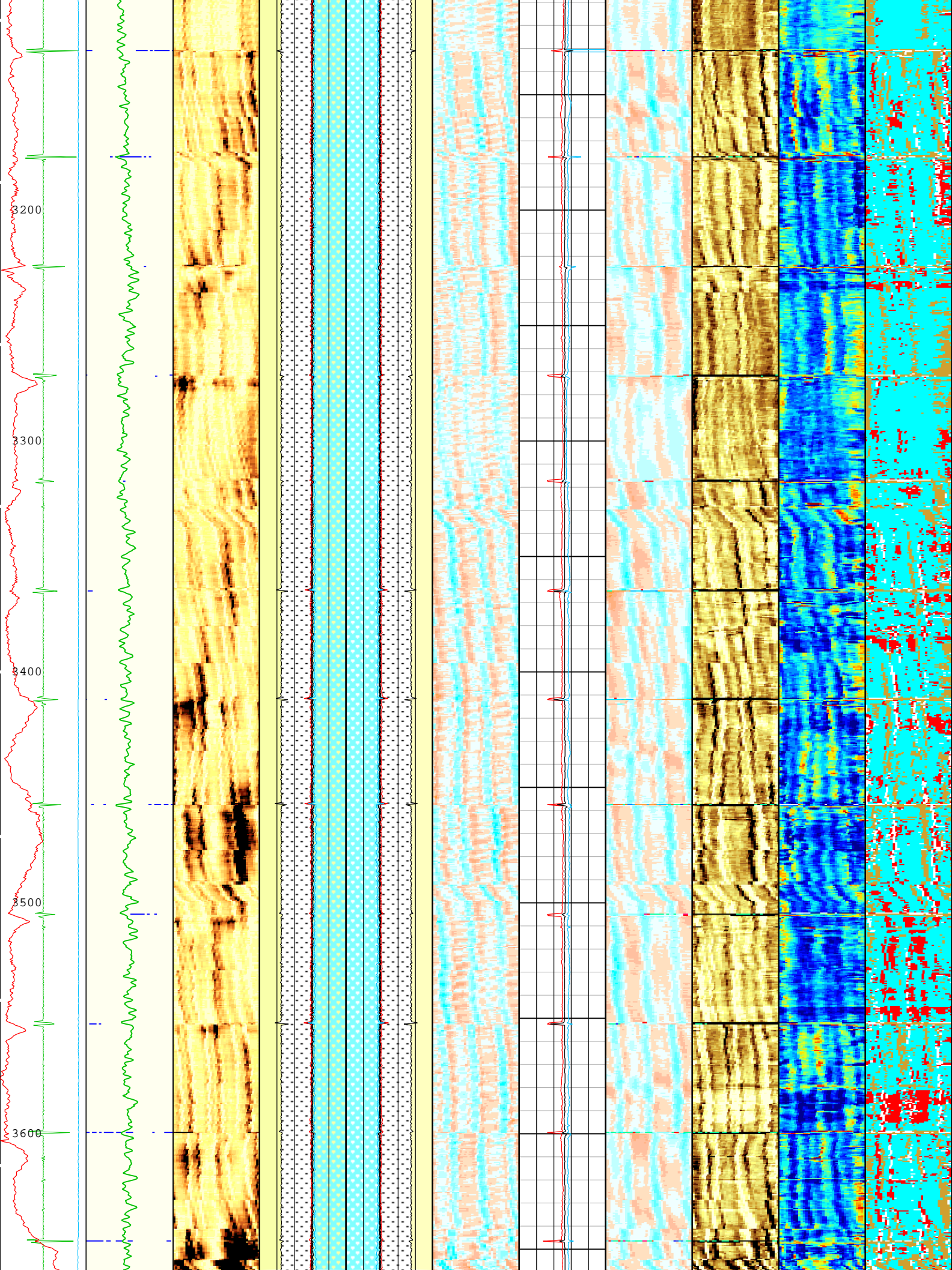


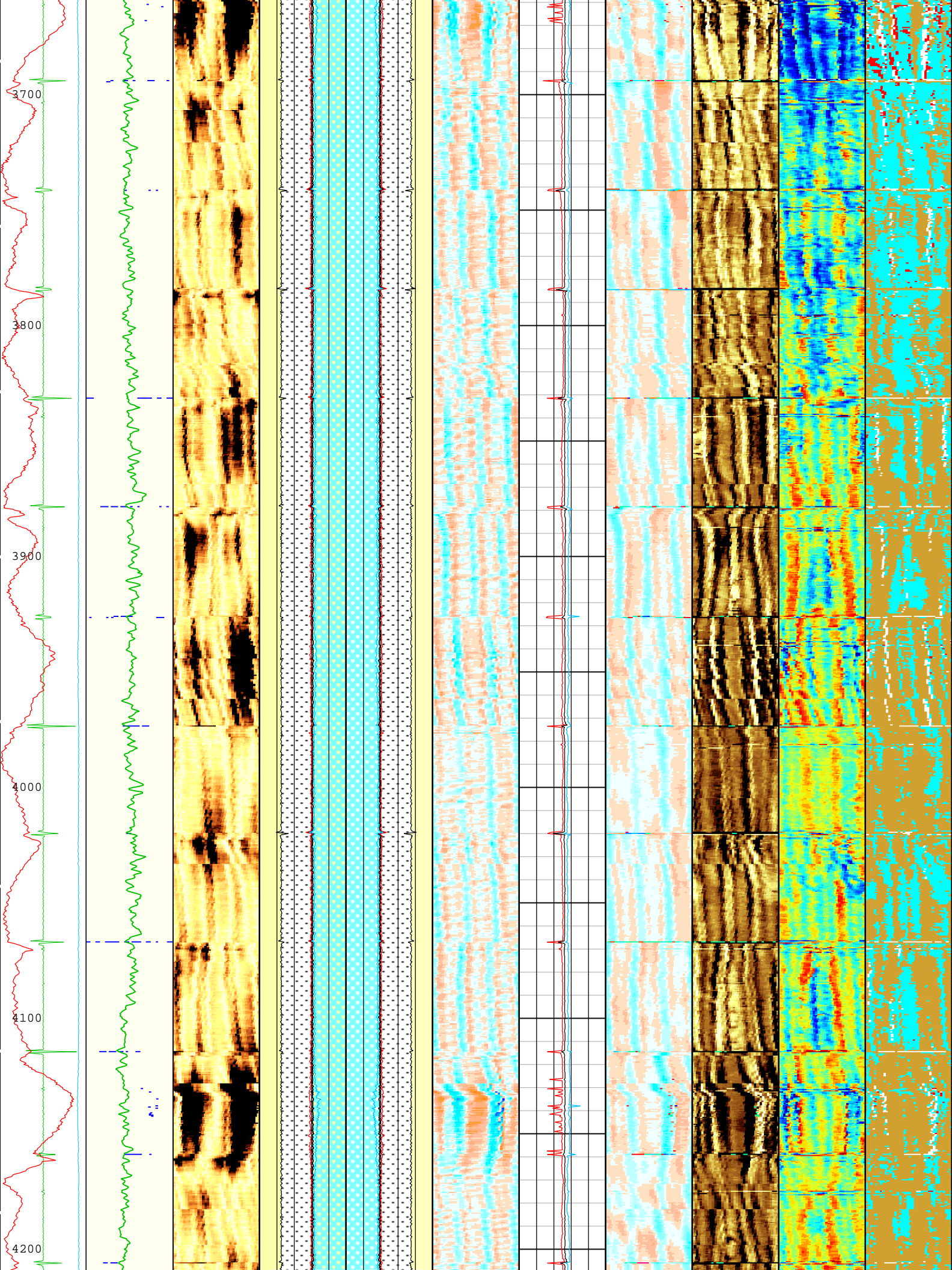


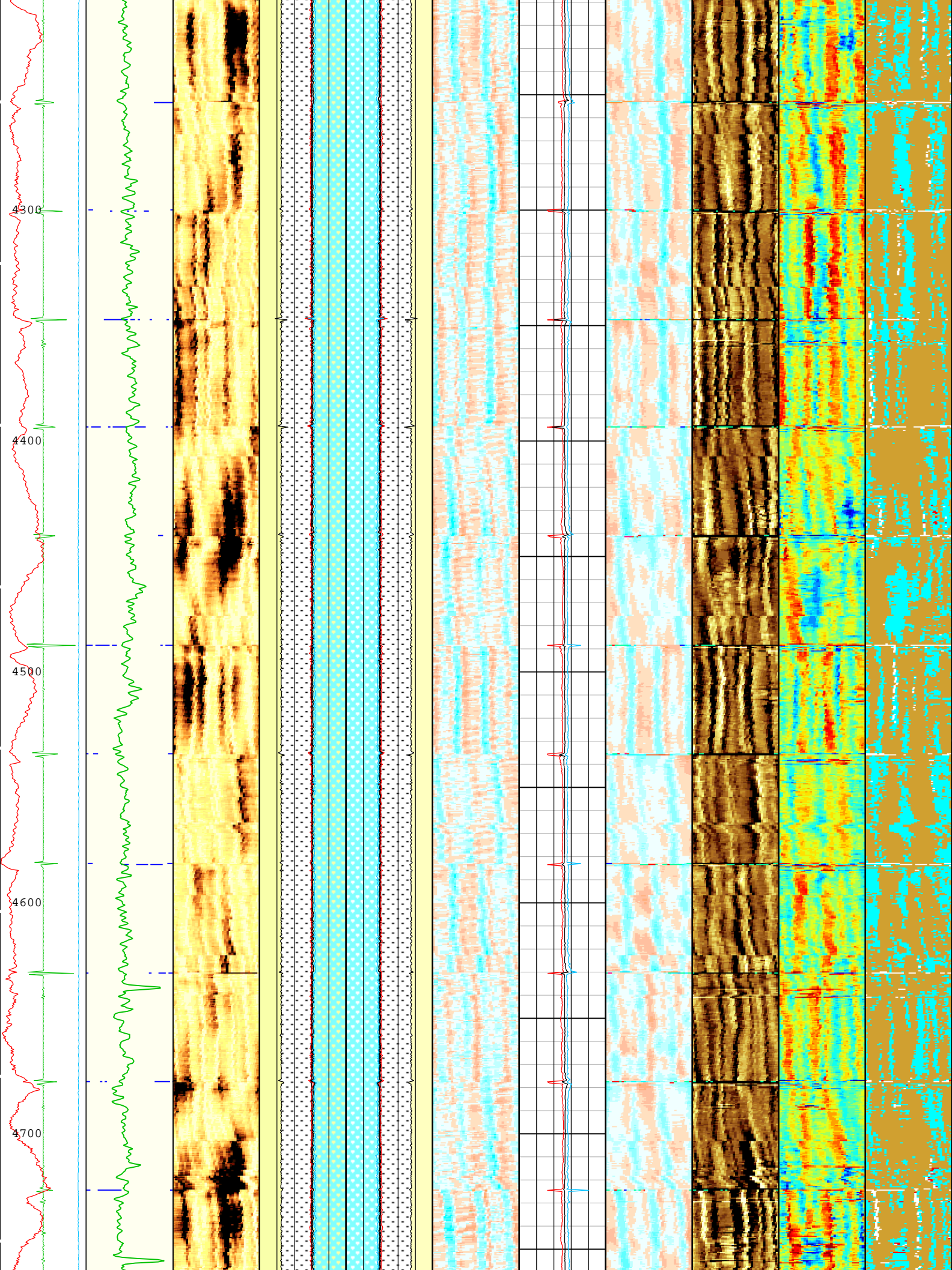


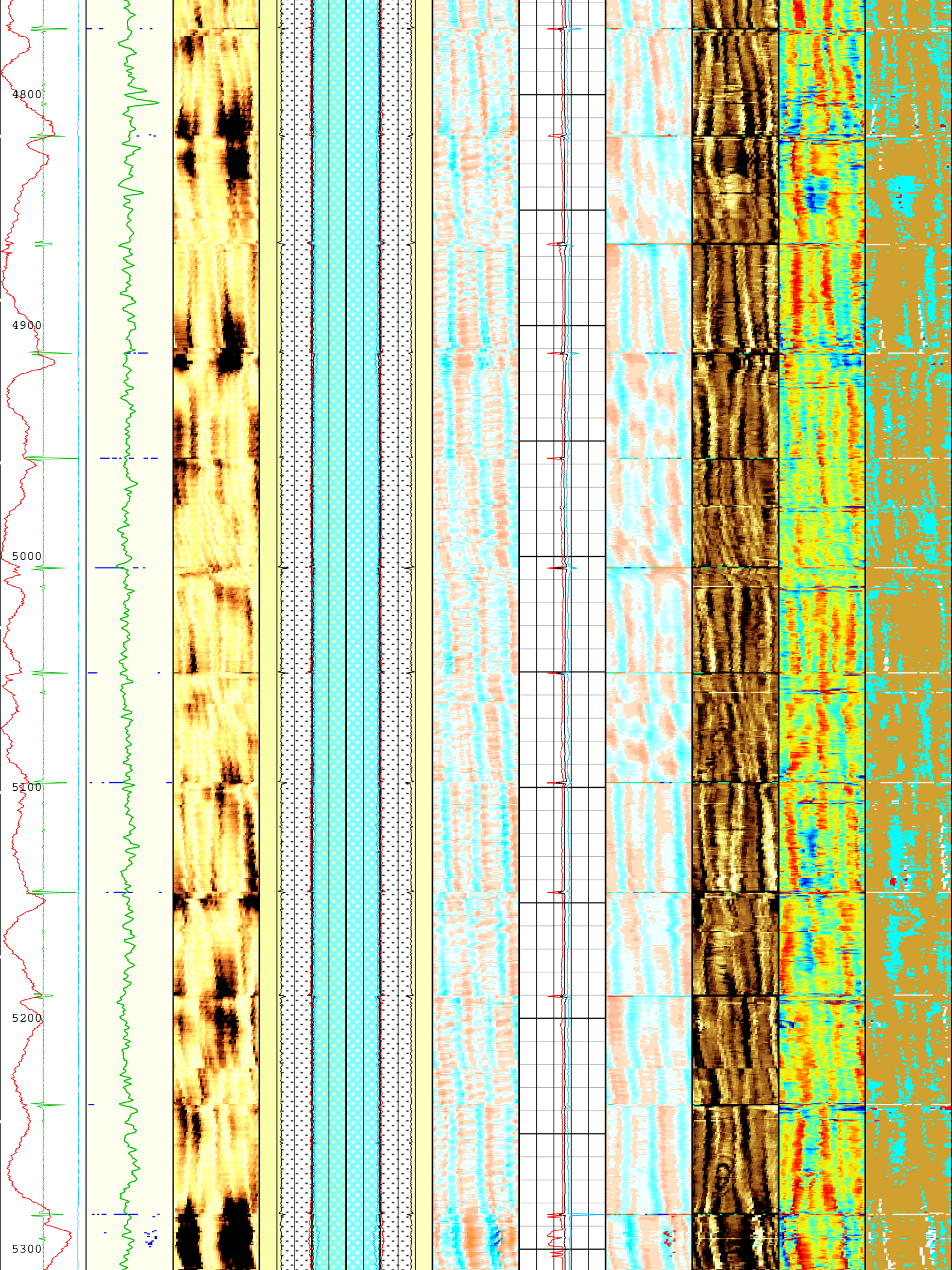


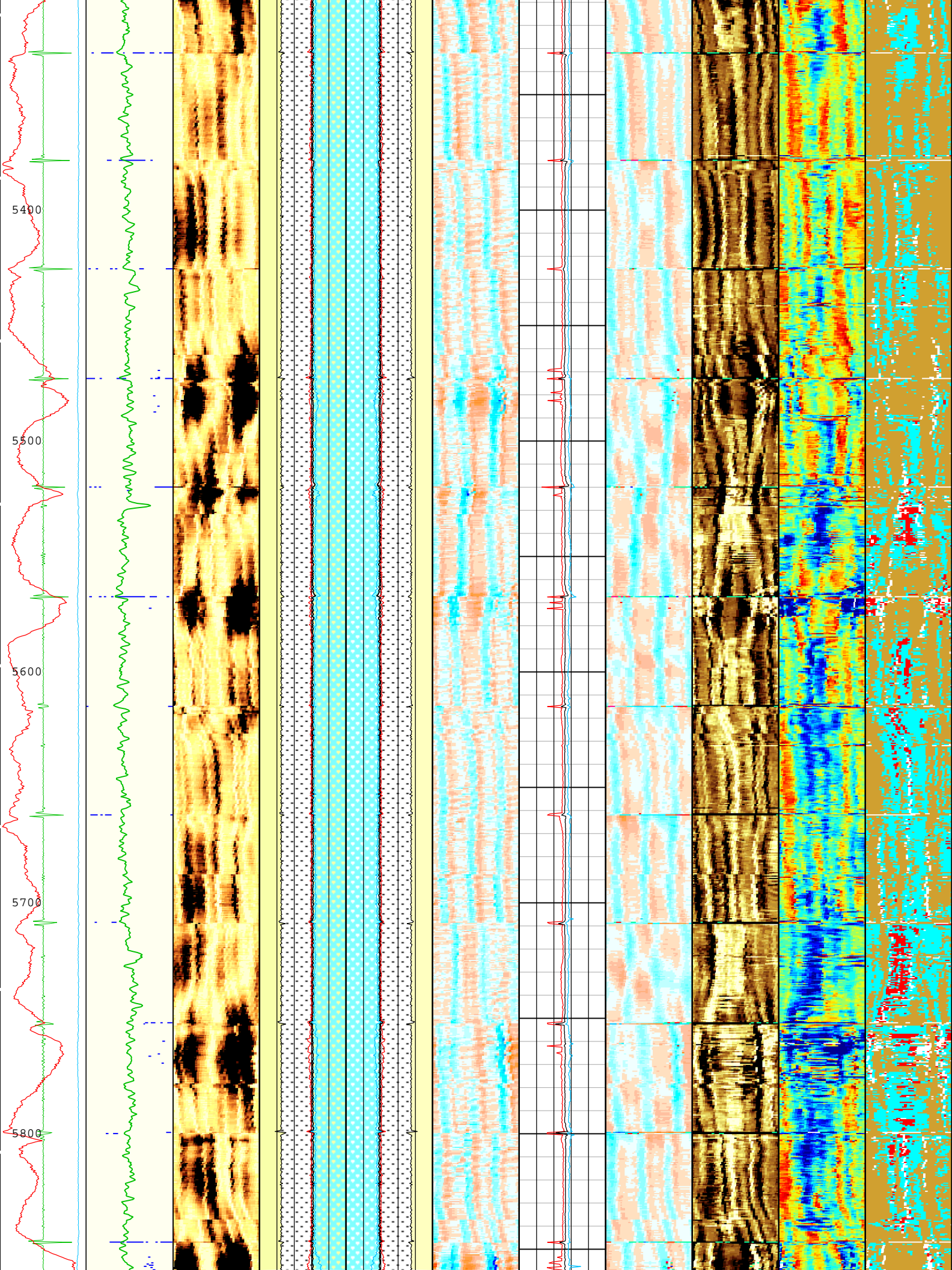


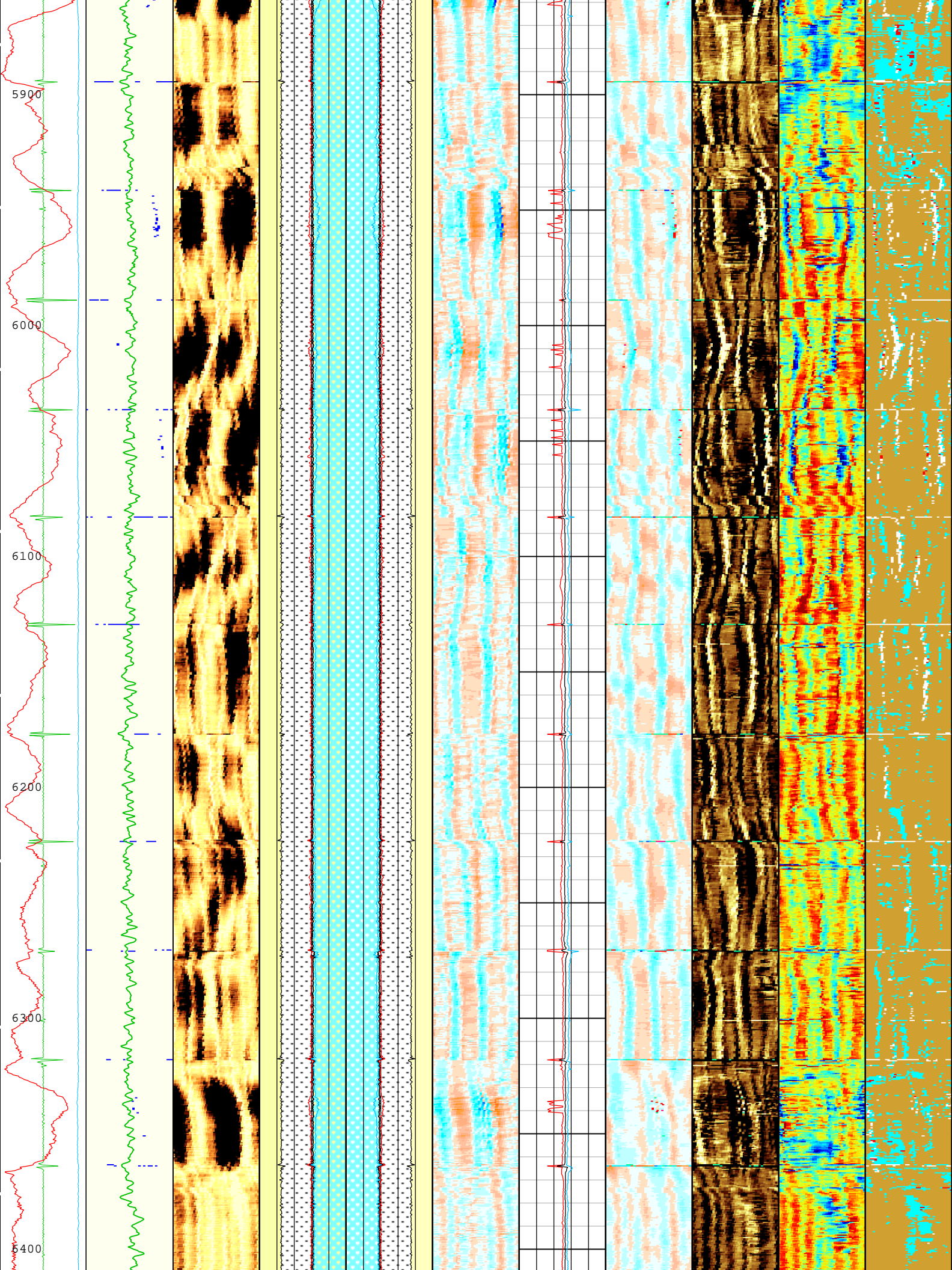


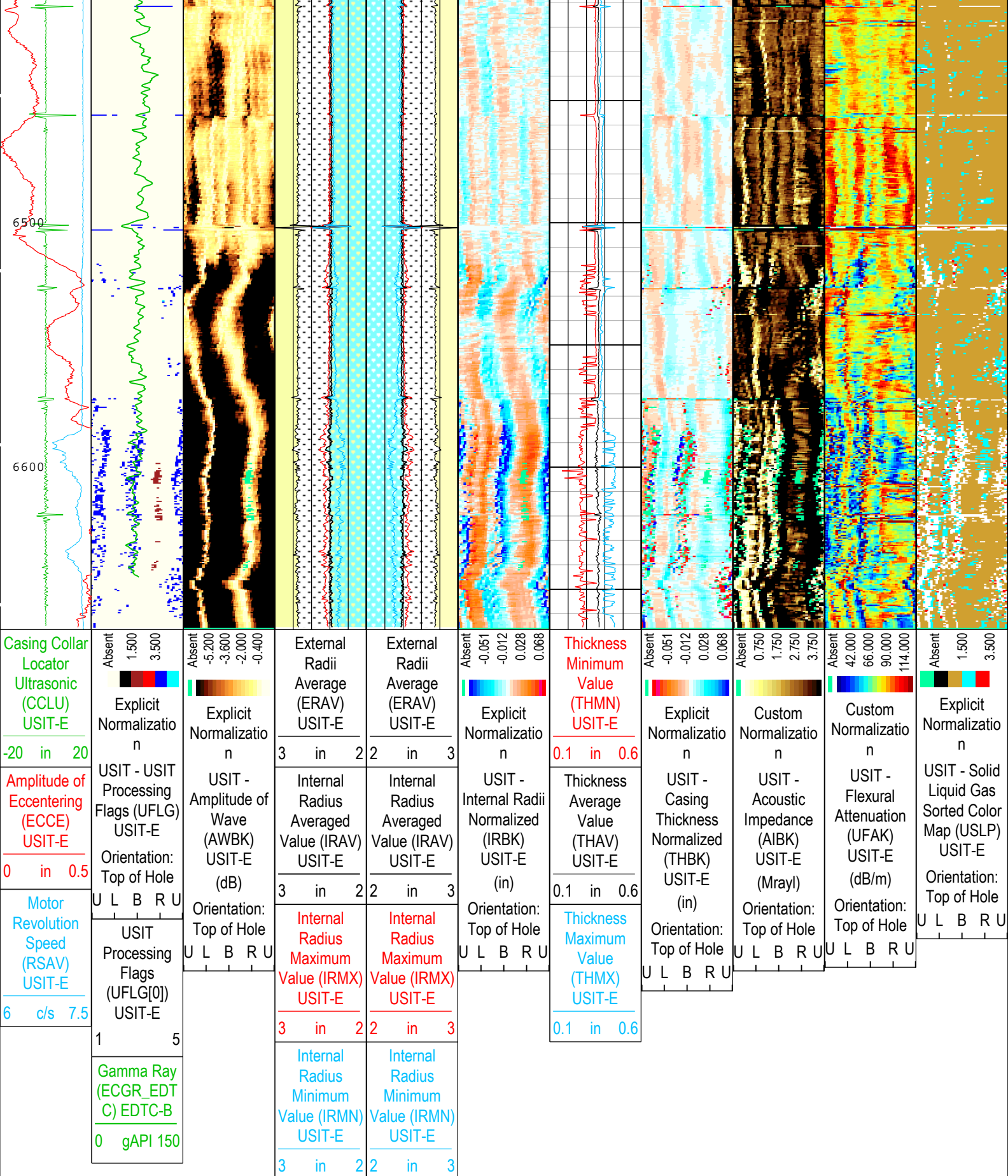












USIT Processing Flags (UFLG[0]) USIT-E

- 1 - UFLG 1 Value within [0.0 - 1.5] - :
- 2 - UFLG 2 Value within [1.5 - 2.5] - :
- 3 - UFLG 3 Value within [2.5 - 3.5] - :
- 4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
- 5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

- UTIM Error
- Pulse Origin Not Detected
- WINLEN Error
- Casing Thickness Error
- Loop Processing Error

Channel Processing Parameters

ONE: Parameters

| Parameter | Description | Tool | Value | Unit |
|-------------------|--|-----------|-------------------|---------|
| BARI(ISSBAR) | Barite Mud Presence Flag | Borehole | No | |
| BHS | Borehole Status (Open or Cased Hole) | Borehole | Open | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CBLO | Casing Bottom (Logger) | WLSESSION | 14655 | ft |
| CDEN | Cement Density | USIT-E | 12.5 | 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 | 8.4 | 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 | -35.96 | 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 | Inversion Norm. | |
| ICE_PROCESS | ICE Processing | USIT-E | Yes | |
| IMAR | Image Rotation | USIT-E | RB | |
| MEAS_WLEN | Tcube Processing Window Length in Measurement Mode | USIT-E | 22.44 | us |
| MUD_N_FRP | Free Pipe Mud Normalization Factor | USIT-E | 1.21 | |
| MUD_N_INV | IBC Inversion Mud Normalization Factor | USIT-E | 1.19 | |
| MUD_N_THE | Theoretical Mud Normalization Factor | USIT-E | 1.15 | |
| U-USIT_DFSZ | Drilling Fluid Specific Acoustic Impedance | USIT-E | 1.68 | Mrayl |
| U-USIT_UFAO | SIT Flexural Attenuation Offset | USIT-E | -35.5 | dB/m |
| U-USIT_UIAP | IBC Answer Product Enabled | USIT-E | SolidLiquidGasMap | |
| ZMUD | Acoustic Impedance of Mud | Borehole | 1.74 | Mrayl |
| ZTCM | Acoustic Impedance Threshold for Cement | USIT-E | 2.6 | Mrayl |
| ZTGS | Acoustic Impedance Threshold for Gas | USIT-E | 0.3 | Mrayl |

Depth Zone Parameters

| Parameter | Value | Start (ft) | Stop (ft) |
|-----------|-------|--------------|-------------|
| BS | 13.5 | 55 | 2155 |
| BS | 8.5 | 2155 | 6666.5 |

All depth are actual.

Tool Control Parameters

ONE: Parameters

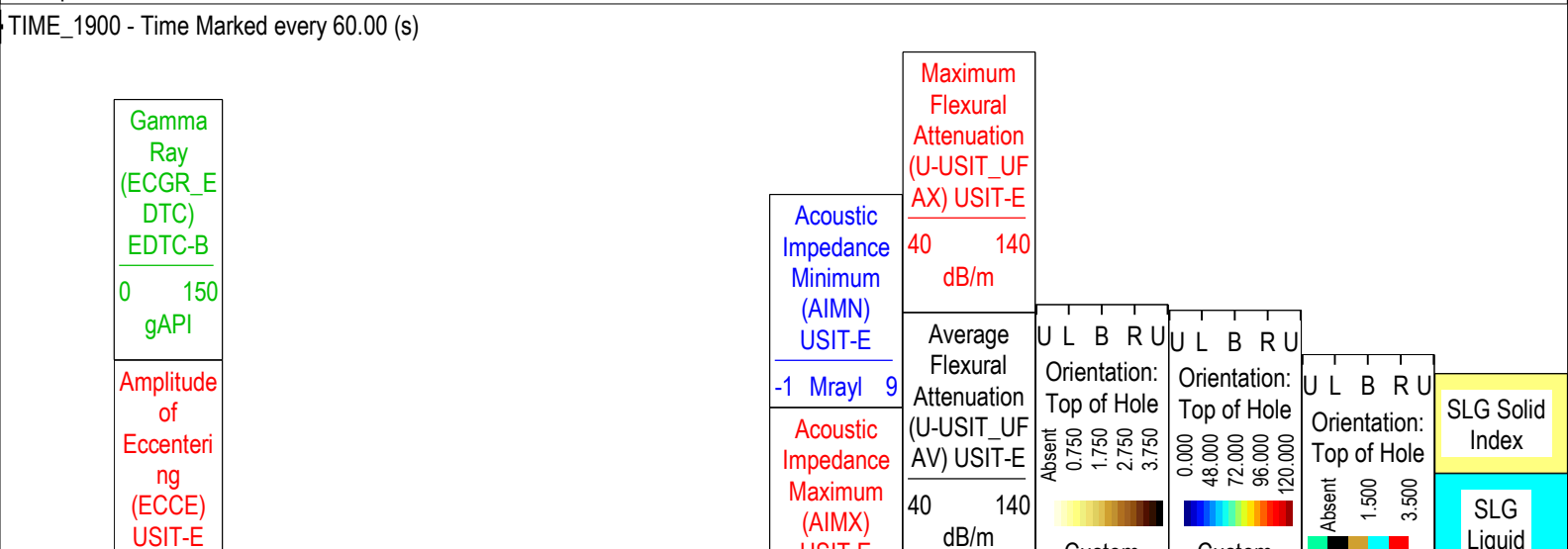
| Parameter | Description | Tool | Value | Unit |
|-------------|---------------------------|--------|-------|------|
| AGMN | Minimum Gain of Cartridge | USIT-E | -12 | dB |
| AGMX | Maximum Gain of Cartridge | USIT-E | 48 | dB |
| EMXV | EMEX Voltage | USIT-E | 60 | V |
| IBC_ACQTYPE | IBC Acquisition 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 | 177 | 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 | 75.23 | us |

| Time Zone Parameters | | | | | |
|-----------------------------|--------|----------------------|----------------------|--------------------|-------------------|
| Parameter | Value | Start Time | Stop Time | Start Depth (ft) | Stop Depth (ft) |
| U-USIT_UFWB | 137 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:14:43 | 6667.15 | 6609.37 |
| U-USIT_UFWB | 126.32 | 19-Sep-2018 15:14:43 | 19-Sep-2018 15:29:29 | 6609.37 | 5563.11 |
| U-USIT_UFWB | 133.37 | 19-Sep-2018 15:29:29 | 19-Sep-2018 16:50:42 | 5563.11 | 54.61 |
| U-USIT_UNWB | 106 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:14:49 | 6667.15 | 6603.38 |
| U-USIT_UNWB | 100.51 | 19-Sep-2018 15:14:49 | 19-Sep-2018 15:29:34 | 6603.38 | 5557.19 |
| U-USIT_UNWB | 102.86 | 19-Sep-2018 15:29:34 | 19-Sep-2018 16:50:42 | 5557.19 | 54.61 |
| U-USIT_UNWE | 146 | 19-Sep-2018 15:13:20 | 19-Sep-2018 15:30:34 | 6667.15 | 5486.45 |
| U-USIT_UNWE | 142.75 | 19-Sep-2018 15:30:34 | 19-Sep-2018 16:50:42 | 5486.45 | 54.61 |
| All depth are at tool zero. | | | | | |

| ONE | | | | | | | | | |
|--|----------------|-----------|----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| IBC Goodwin Compressed | | | | | | | | | |
| Pass Summary | | | | | | | | | |
| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
| ONE | Log[4]:Up | Up | 54.61 ft | 6667.15 ft | 19-Sep-2018 3:13:20 PM | 19-Sep-2018 4:50:42 PM | ON | 5.43 ft | Yes |
| All depths are referenced to toolstring zero | | | | | | | | | |

| | | | | | | |
|---|---|--|--|--|-----------------------|--|
| Log | Company:Crestone Peak Resources Operating LLC | | | | Well:Davis 1E-9H-G266 | |
| | ONE: Log[4]:Up:S007 | | | | | |
| Description: USI Goodwin Format: Log (IBC Goodwin) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 21:25:34 | | | | | | |



| | 0 in 0.5 | Goodwin Sector Curves (5 Mrayl per Division) | USIT-E | Minimum Flexural Attenuation (U-USIT_UFAN) USIT-E | Custom Normalization | Custom Normalization | Explicit Normalization | Index |
|------|--|--|--|--|---|--|--|-----------------------|
| | Motor Revolution Speed (RSAV) USIT-E | | Acoustic Impedance Average (AIAV) USIT-E | 40 140 dB/m | USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) | USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) | USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E | SLG Gas Index |
| | 6 c/s 7.5 | | -1 Mrayl 9 | | | | | SLG White Point Index |
| | | | | | | | | |
| 500 | | | | | | | | |
| 1000 | | | | | | | | |
| 1500 | | | | | | | | |
| 2000 | | | | | | | | |
| 2500 | | | | | | | | |
| 3000 | | | | | | | | |
| 3500 | | | | | | | | |
| 4000 | | | | | | | | |
| 4500 | | | | | | | | |
| 5000 | | | | | | | | |
| 5500 | | | | | | | | |
| 6000 | | | | | | | | |
| 6500 | | | | | | | | |
| | Gamma Ray (ECGR_E DTC) EDTC-B | Goodwin Sector Curves (5 Mrayl per Division) | Acoustic Impedance Minimum (AIMN) USIT-E | Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E | Absent 0.750 1.750 2.750 3.750 | 0.000 48.000 72.000 96.000 120.000 | Absent 1.500 3.500 | SLG Solid Index |
| | 0 150 gAPI | | -1 Mrayl 9 | 40 140 dB/m | Custom Normalization | Custom Normalization | Explicit Normalization | SLG Liquid Index |
| | Amplitude of Eccentering (ECCE) USIT-E | | Acoustic Impedance Maximum (AIMX) USIT-E | Average Flexural Attenuation (U-USIT_UF AV) USIT-E | USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl) | USIT - Flexural Attenuation (UFAK) USIT-E (dB/m) | USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E | SLG Gas Index |
| | 0 in 0.5 | | -1 Mrayl 9 | 40 140 dB/m | Orientation: Top of Hole U L B R U | Orientation: Top of Hole U L B R U | Orientation: Top of Hole U L B R U | SLG White Point Index |
| | Motor | | Acoustic Impedance Average (AIAV) | Minimum | | | | |

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

(AI/V)
USIT-E
-1 Mrayl 9

Minimum
Flexural
Attenuation
(U-USIT_UF
AN) USIT-E
40 140
dB/m

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: 19-Sep-2018 21:25:34

ONE

IBC SLG

Software Version

Acquisition SystemVersionMaxwell 2018 SP28.2.104493.3100

Pass Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|------------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| ONE | Log[2]:Up | Up | 1980.64 ft | 2311.67 ft | 19-Sep-2018 2:43:50 PM | 19-Sep-2018 2:49:06 PM | ON | -0.73 ft | Yes |

All depths are referenced to toolstring zero

Log

Company:Crestone Peak Resources Operating LLC Well:Davis 1E-9H-G266
ONE: Log[2]:Up:S007

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 21:25:57

TIME_1900 - Time Marked every 60.00 (s)

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

1 - UFLG 1 Value within [0.0 - 1.5] - :
2 - UFLG 2 Value within [1.5 - 2.5] - :
3 - UFLG 3 Value within [2.5 - 3.5] - :
4 - UFLG 4 UFLG 5 UFLG 6 Value within [3.5 - 6.5] - :
5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

UTIM Error

Pulse Origin Not Detected

WINLEN Error

Casing Thickness Error

Loop Processing Error

Casing Collar
Locator
Ultrasonic
(CCLU)
USIT-E
-20 in 20

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

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

Cartridge
Temperature
(CTEM)
EDTC-B

U L B R U
Orientation: Top
of Hole
Absent 1.500 3.500
Explicit
Normalization
USIT - USIT
Processing Flags
(UFLG) USIT-E
USIT Processing
Flags (UFLG[0])
USIT-E

U L B R U
Orientation: Top
of Hole
Absent -5.200 -3.600 -2.000 -0.400
Explicit
Normalization
USIT - Amplitude
of Wave (AWBK)
USIT-E

Gamma Ray
(ECGR_EDTC)
EDTC-B

Acoustic
Impedance
Minimum (AIMN)
USIT-E
-1 Mrayl 9

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

Acoustic
Impedance
Maximum (AIMX)
USIT-E

U L B R U
Orientation: Top
of Hole
Absent 0.750 1.750 2.750 3.750
Custom
Normalization
USIT - Acoustic
Impedance
(AIBK) USIT-E

Average Flexural
Attenuation
(U-USIT_UFAV)
USIT-E
0 dB/m 150

Maximum
Flexural
Attenuation
(U-USIT_UFAX)
USIT-E

U L B R U
Orientation: Top
of Hole
Absent 42.000 66.000 90.000 114.000
Custom
Normalization
USIT - Flexural
Attenuation
(UFAK) USIT-E

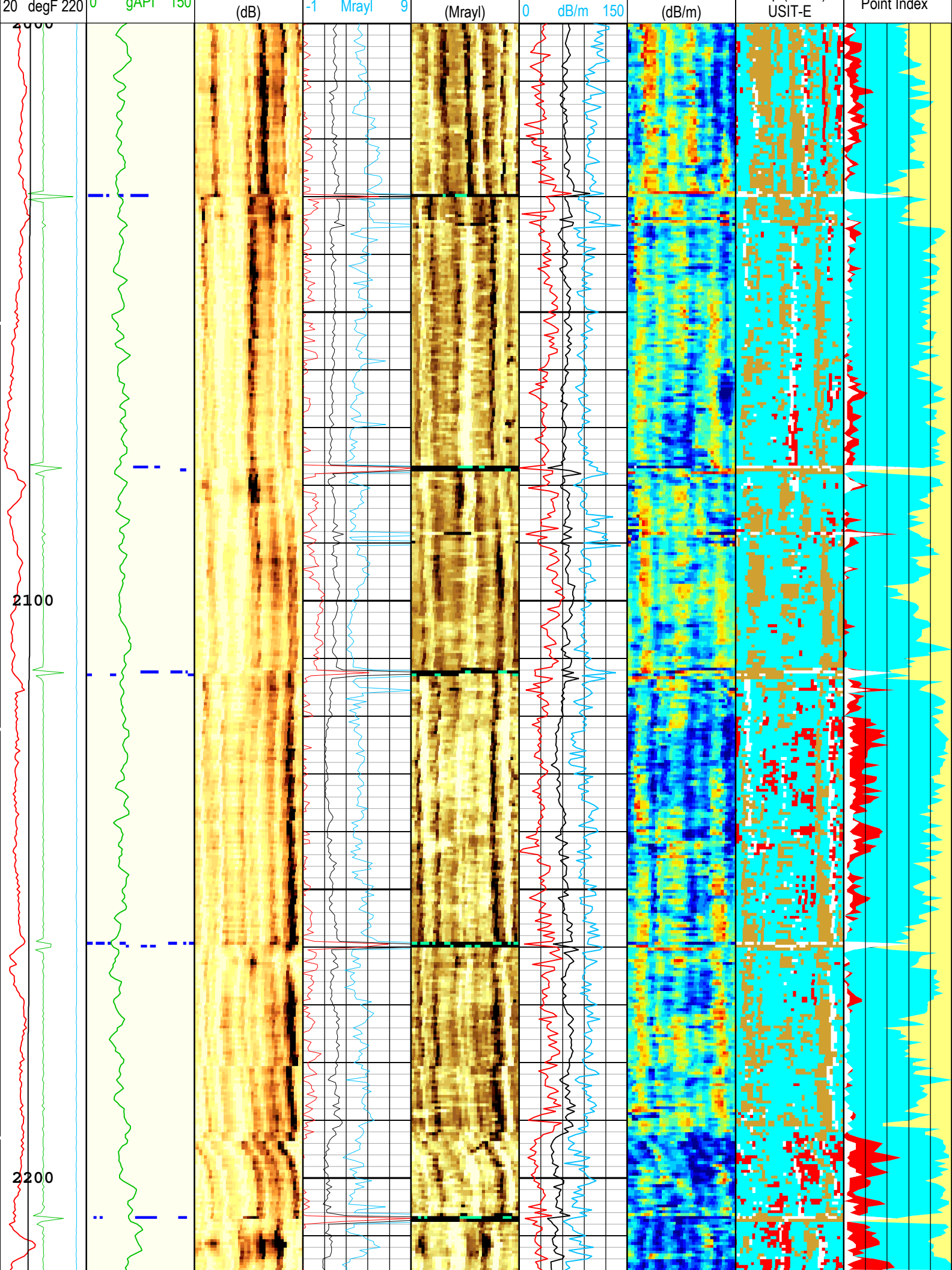
U L B R U
Orientation: Top
of Hole
Absent 0.500 1.500 2.500 3.500
Explicit
Normalization
USIT - Solid
Liquid Gas
Sorted Color
Map (USLP)

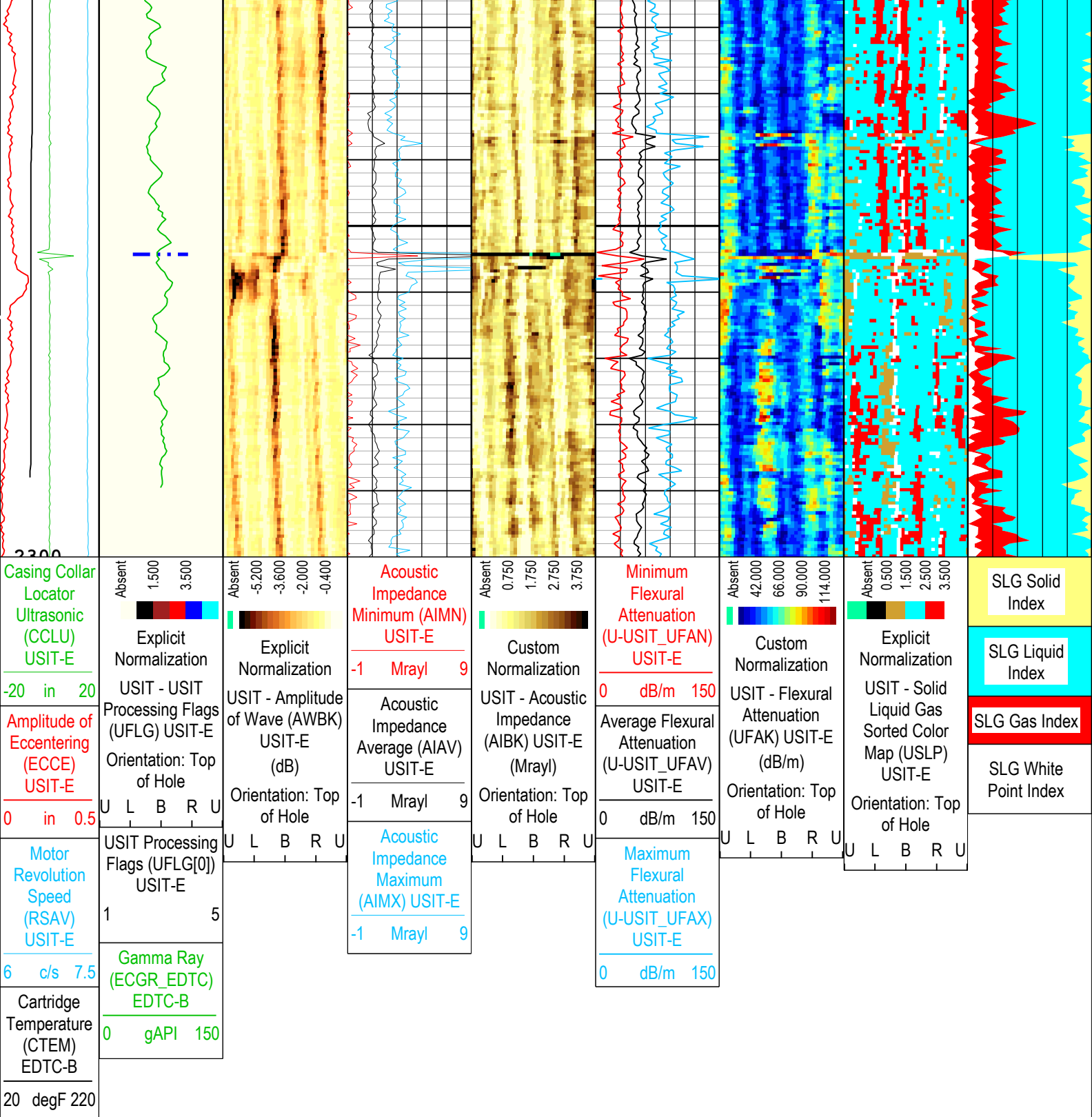
SLG Solid
Index

SLG Liquid
Index

SLG Gas Index

SLG White
Print Index





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

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

TIME_1900 - Time Marked every 60.00 (s)

Description: USI IBC SLG Format: Log (IBC SLG) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 19-Sep-2018 21:25:57

Channel Processing Parameters

ONE: 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 | Open | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CASING_PRATIO | Casing Poisson Ratio | USIT-E | Standard Poisson Ratio | |
| CBLO | Casing Bottom (Logger) | WLSESSION | 14655 | ft |
| CDEN | Cement Density | USIT-E | 12.5 | 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 | 8.4 | 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 | -35.96 | 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 | Inversion Norm. | |
| ICE_PROCESS | ICE Processing | USIT-E | Yes | |
| IMAR | Image Rotation | USIT-E | RB | |
| MEAS_WLEN | Tcube Processing Window Length in Measurement Mode | USIT-E | 22.44 | us |
| MUD_N_FRP | Free Pipe Mud Normalization Factor | USIT-E | 1.21 | |
| MUD_N_INV | IBC Inversion Mud Normalization Factor | USIT-E | 1.19 | |
| 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 | 1.68 | Mrayl |
| U-USIT_UFAO | SIT Flexural Attenuation Offset | USIT-E | -35.5 | 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 | 1.74 | Mrayl |
| ZTCM | Acoustic Impedance Threshold for Cement | USIT-E | 2.6 | Mrayl |
| ZTGS | Acoustic Impedance Threshold for Gas | USIT-E | 0.3 | Mrayl |

| Depth Zone Parameters | | | | |
|-----------------------|-------|------------|-----------|--|
| Parameter | Value | Start (ft) | Stop (ft) | |

| Parameter | Value | Start (ft) | Stop (ft) |
|-----------|-------|--------------|-------------|
| BS | 13.5 | 2000 | 2155 |
| BS | 8.5 | 2155 | 2300 |

All depth are actual.

Tool Control Parameters

ONE: 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 | 60 | 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 | Time Zoned | us |

Time Zone Parameters

| Parameter | Value | Start Time | Stop Time | Start Depth (ft) | Stop Depth (ft) |
|-----------|-------|----------------------|----------------------|--------------------|-------------------|
| WINE | 71.88 | 19-Sep-2018 14:43:50 | 19-Sep-2018 14:44:53 | 2311.67 | 2271.02 |
| WINE | 75.23 | 19-Sep-2018 14:44:53 | 19-Sep-2018 14:49:06 | 2271.02 | 1980.64 |

All depth are at tool zero.

ONE

IBC SLG Composite

Pass Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|------------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| ONE | Log[2]:Up | Up | 1980.64 ft | 2311.67 ft | 19-Sep-2018 2:43:50 PM | 19-Sep-2018 2:49:06 PM | ON | -0.73 ft | Yes |

All depths are referenced to toolstring zero

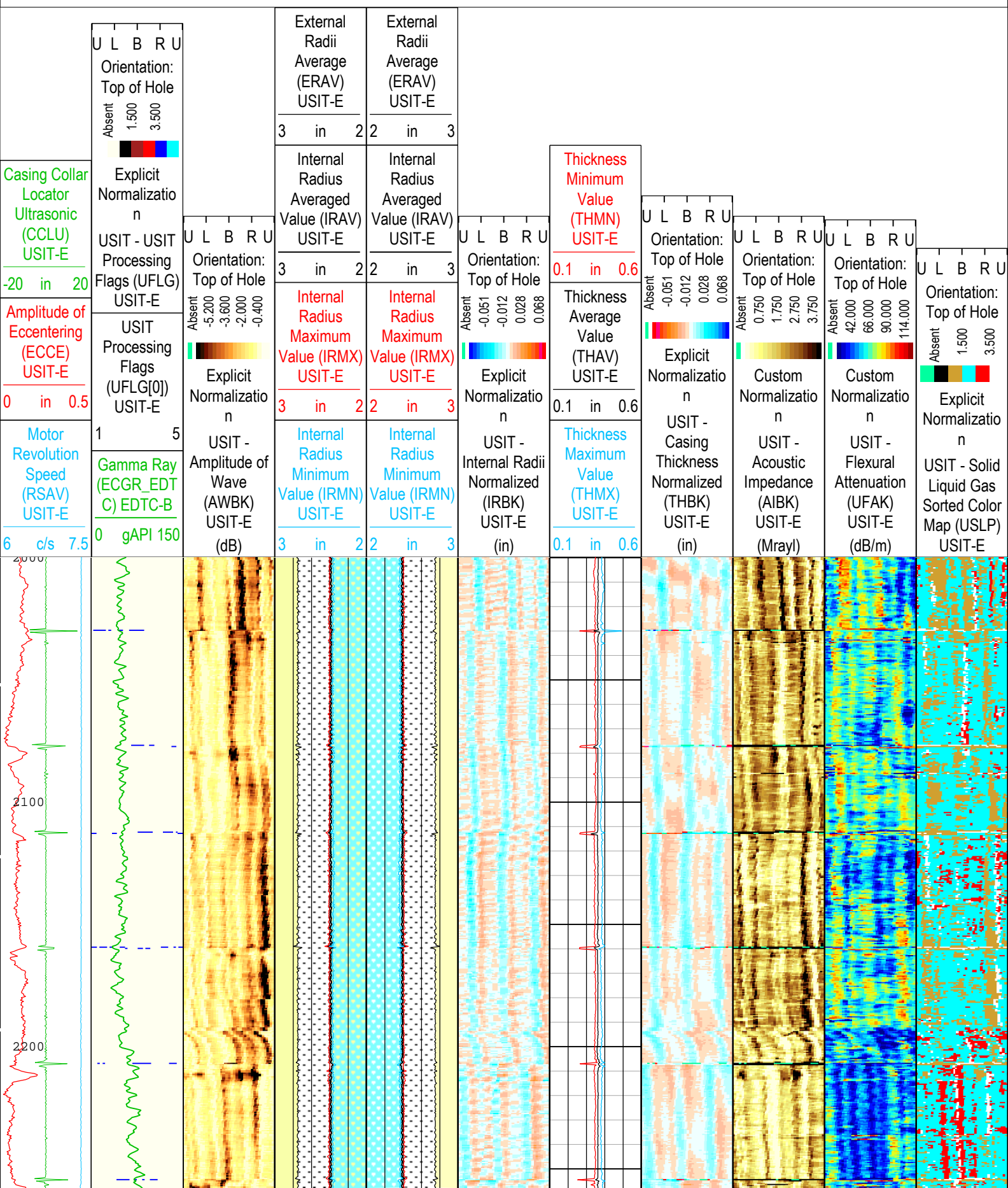
| | | |
|-----|---|-----------------------|
| Log | Company:Crestone Peak Resources Operating LLC | Well:Davis 1E-9H-G266 |
| | | ONE: Log[2]:Up:S007 |

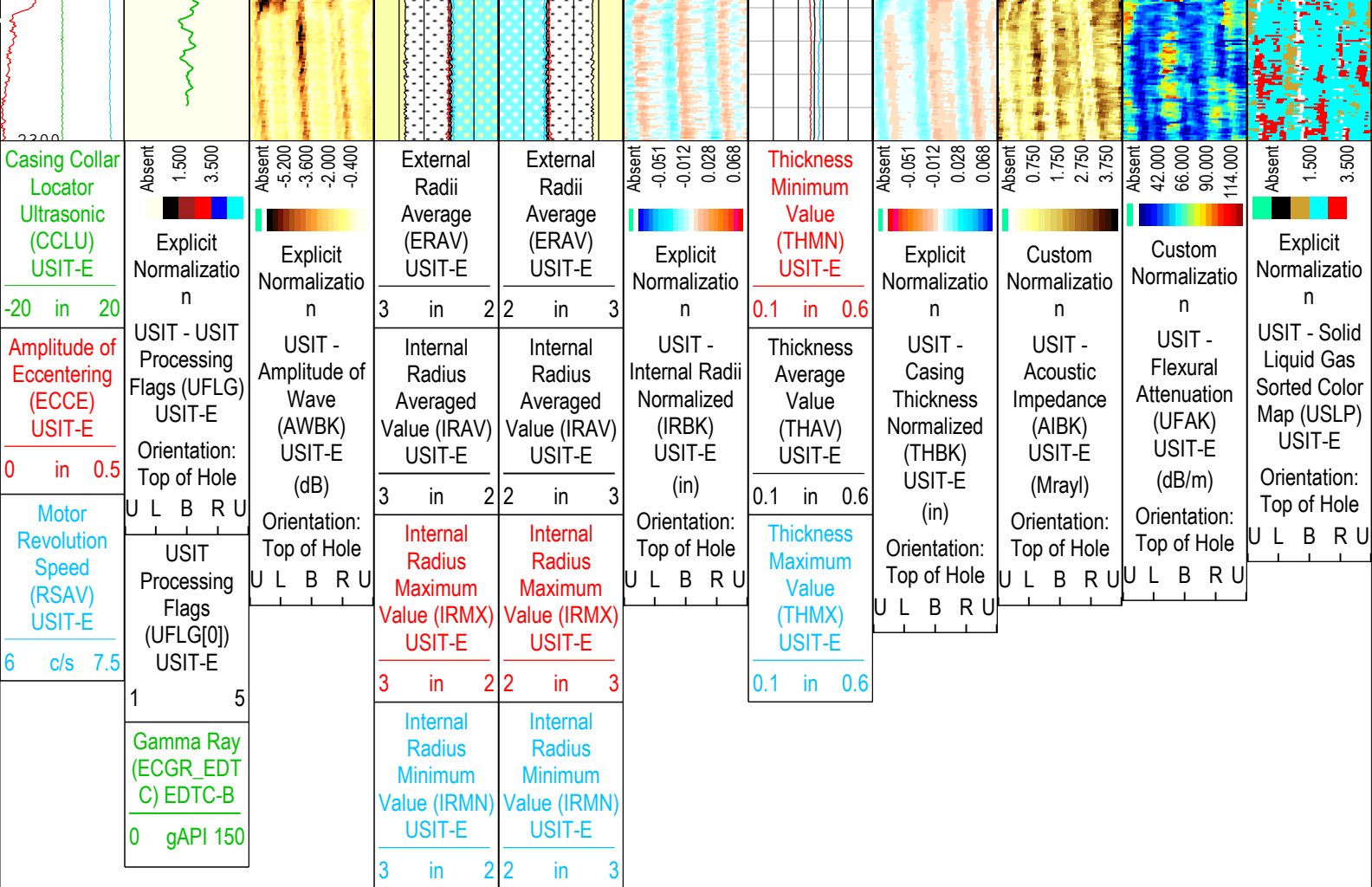
Description: USI IBC SLG Composite Format: Log (IBC SLG Composite) Index Scale: 2 in per 100 ft Index Unit: ft Index Type: Measured Depth
Creation Date: 19-Sep-2018 21:26:18






TIME_1900 - Time Marked every 60.00 (s)

5 - UFLG 7 UFLG 8 UFLG 9 Value within [6.5 - 10] - :

■ Loop Processing Error





| | | | | |
|---|---|---------------------------|--|--|
| USIT Processing Flags (UFLG[0]) USIT-E | | | | |
| 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 | | |
| TIME_1900 - Time Marked every 60.00 (s) | | | | |
| 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: 19-Sep-2018 21:26:18 | | | | |

| Channel Processing Parameters | | | | |
|-------------------------------|--|-----------|--------------|---------|
| ONE: Parameters | | | | |
| Parameter | Description | Tool | Value | Unit |
| BAR(ISSBAR) | Barite Mud Presence Flag | Borehole | No | |
| BHS | Borehole Status (Open or Cased Hole) | Borehole | Open | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CBLO | Casing Bottom (Logger) | WLSESSION | 14655 | ft |
| CDEN | Cement Density | USIT-E | 12.5 | 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 | 8.4 | 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 | -35.96 | 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 | Inversion Norm. | |
| ICE_PROCESS | ICE Processing | USIT-E | Yes | |
| IMAR | Image Rotation | USIT-E | RB | |
| MEAS_WLEN | Tcube Processing Window Length in Measurement Mode | USIT-E | 22.44 | us |
| MUD_N_FRP | Free Pipe Mud Normalization Factor | USIT-E | 1.21 | |
| MUD_N_INV | IBC Inversion Mud Normalization Factor | USIT-E | 1.19 | |
| MUD_N_THE | Theoretical Mud Normalization Factor | USIT-E | 1.15 | |
| U-USIT_DFSZ | Drilling Fluid Specific Acoustic Impedance | USIT-E | 1.68 | Mrayl |
| U-USIT_UFAO | SIT Flexural Attenuation Offset | USIT-E | -35.5 | dB/m |
| U-USIT_UIAP | IBC Answer Product Enabled | USIT-E | SolidLiquidGasMap | |
| ZMUD | Acoustic Impedance of Mud | Borehole | 1.74 | Mrayl |
| ZTCM | Acoustic Impedance Threshold for Cement | USIT-E | 2.6 | Mrayl |
| ZTGS | Acoustic Impedance Threshold for Gas | USIT-E | 0.3 | Mrayl |

| Depth Zone Parameters | | | |
|-----------------------|-------|--------------|-------------|
| Parameter | Value | Start (ft) | Stop (ft) |
| BS | 13.5 | 2000 | 2155 |
| BS | 8.5 | 2155 | 2300 |
| All depth are actual. | | | |

| Tool Control Parameters | |
|-------------------------|--|
|-------------------------|--|

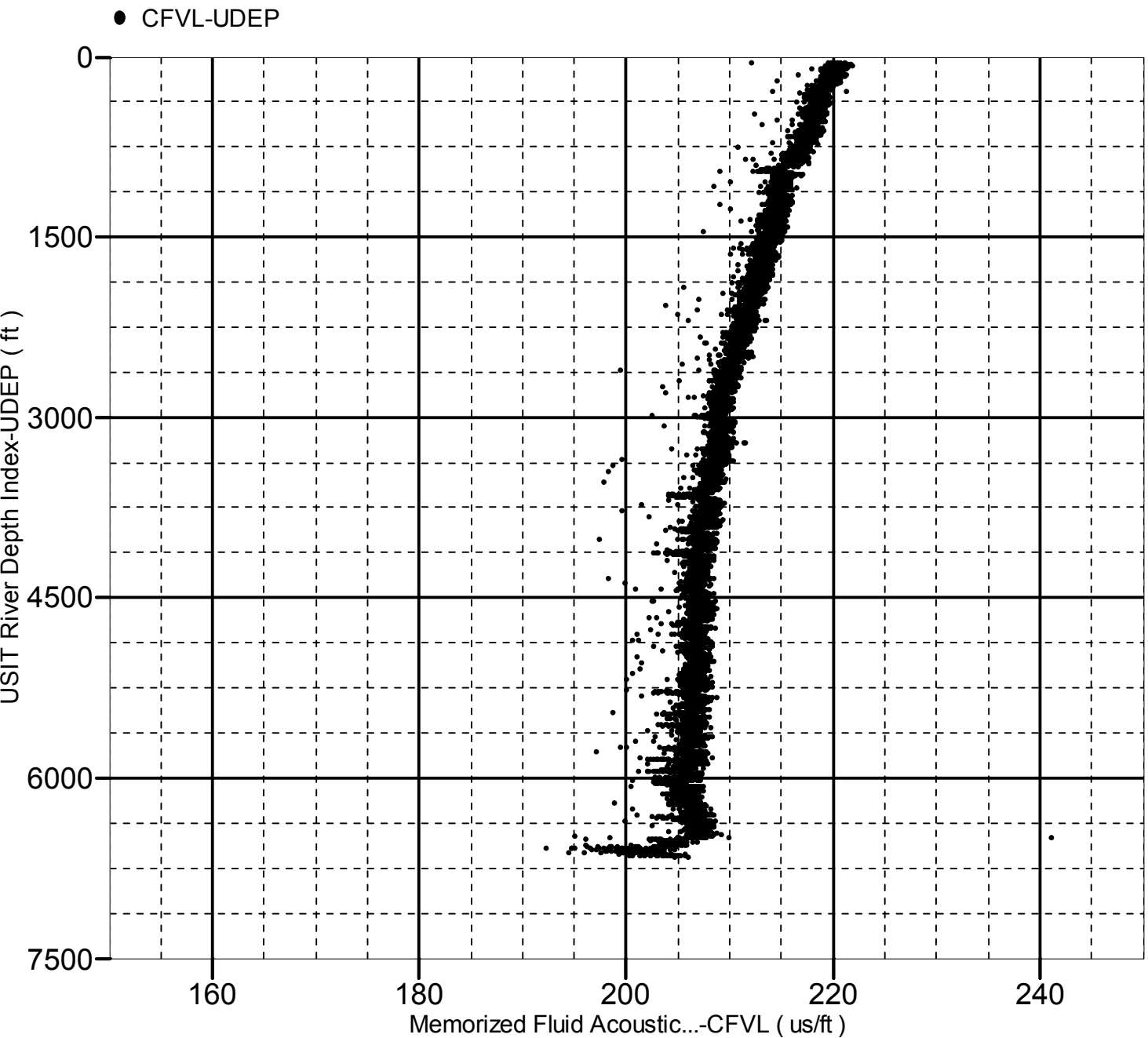
| ONE: Parameters | | | | |
|-----------------|---------------------------------|--------|------------------|------|
| Parameter | Description | Tool | Value | Unit |
| AGMN | Minimum Gain of Cartridge | USIT-E | -12 | dB |
| AGMX | Maximum Gain of Cartridge | USIT-E | 48 | dB |
| EMXV | EMEX Voltage | USIT-E | 60 | 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 | Time Zoned | us |

| Time Zone Parameters | | | | | |
|-----------------------------|-------|----------------------|----------------------|--------------------|-------------------|
| Parameter | Value | Start Time | Stop Time | Start Depth (ft) | Stop Depth (ft) |
| WINE | 71.88 | 19-Sep-2018 14:43:50 | 19-Sep-2018 14:44:53 | 2311.67 | 2271.02 |
| WINE | 75.23 | 19-Sep-2018 14:44:53 | 19-Sep-2018 14:49:06 | 2271.02 | 1980.64 |
| All depth are at tool zero. | | | | | |

Fluid Acoustic Slowness vs Depth

2D Cross Plot

Index Range: From 6666.50 to 54.00 ft



XYZ

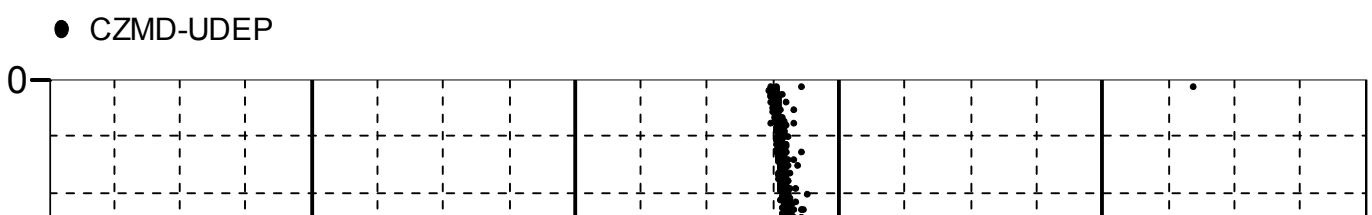
Company:Crestone Peak Resources Operating LLC Well:Davis 1E-9H-G266

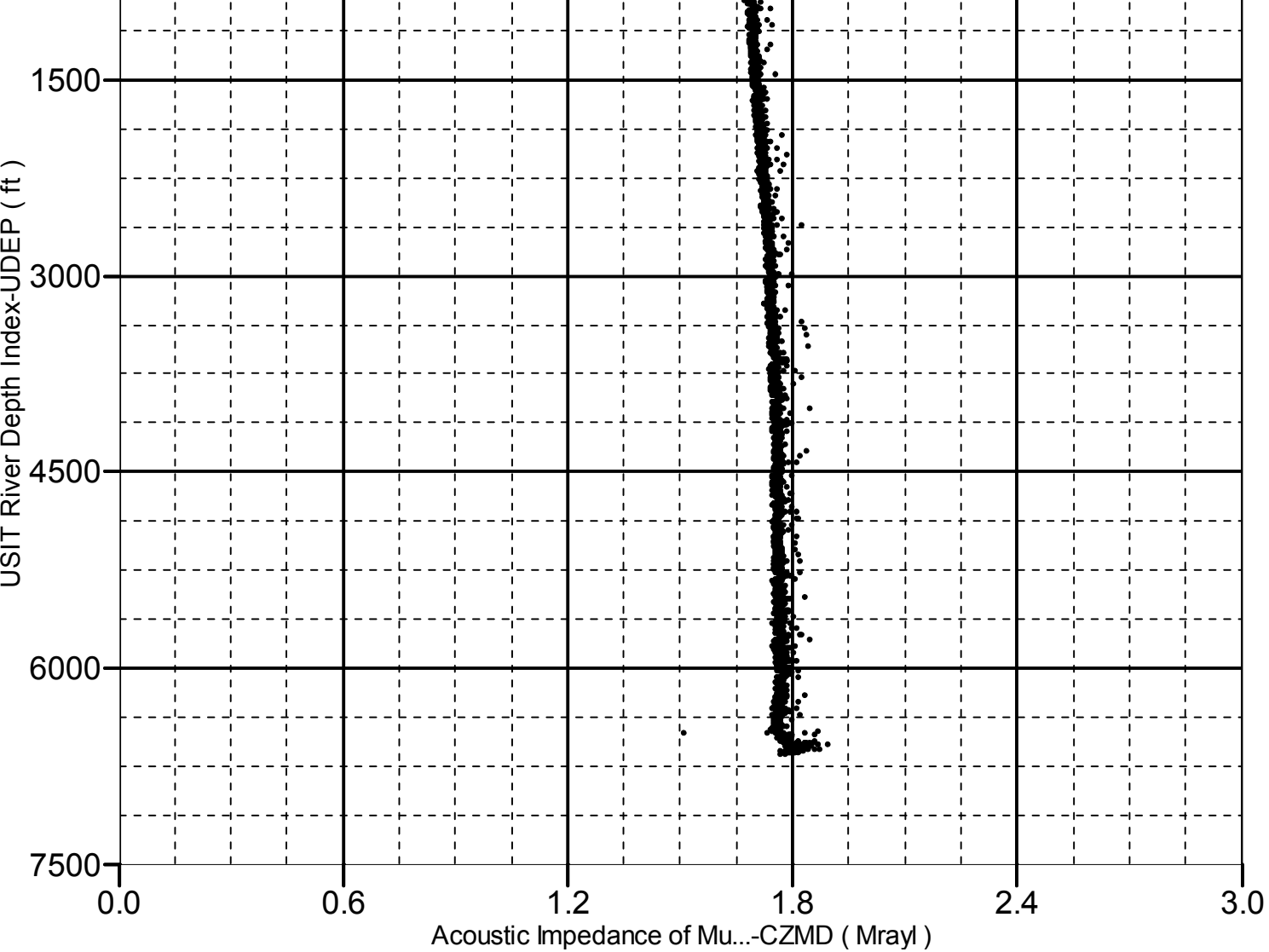
ONE: Log[4]:Up:S007

Acoustic Impedance of Mud vs Depth

2D Cross Plot

Index Range: From 6666.50 to 54.00 ft





| | | |
|---------------------|---------------------------------------|--------------|
| Company: | Crestone Peak Resources Operating LLC | Schlumberger |
| Well: | Davis 1E-9H-G266 | |
| Field: | Wattenberg | |
| County: | Weld | |
| State: | Colorado | |
| Isolation Scanner | | |
| Cement Evaluation | | |
| Gamma Ray - CCL Log | | |