Schlumberger

Company: Mississippi Power Company

Well: MPC 26-5 #1

Field: Wildcat

County: Kemper State: Mississippi

***500 psi*** Isolation Scanner - CBL VDL

Cement Evaluation

Gamma Ray - CCL Log

County: Kemper
Field: Wildcat
Location: 1783' FNL & 816' FWL
Well: MPC 26-5 #1
Company: Mississippi Power Company

Location: 1783' FNL & 816' FWL

Elev.: K.B. 397.00 ft
G.L. 385.00 ft
D.F. 396.00 ft

Permanent Datum: Ground Level Elev.: 385.00 ft
Log Measured From: Kelly Bushing 12.00 ft above Perm.Datum
Drilling Measured From: Kelly Bushing

| API Serial No. | Section: | Township: | Range: |
|---|---|---|---|
| 23-069-20013 | 26 | 9S | 14E |

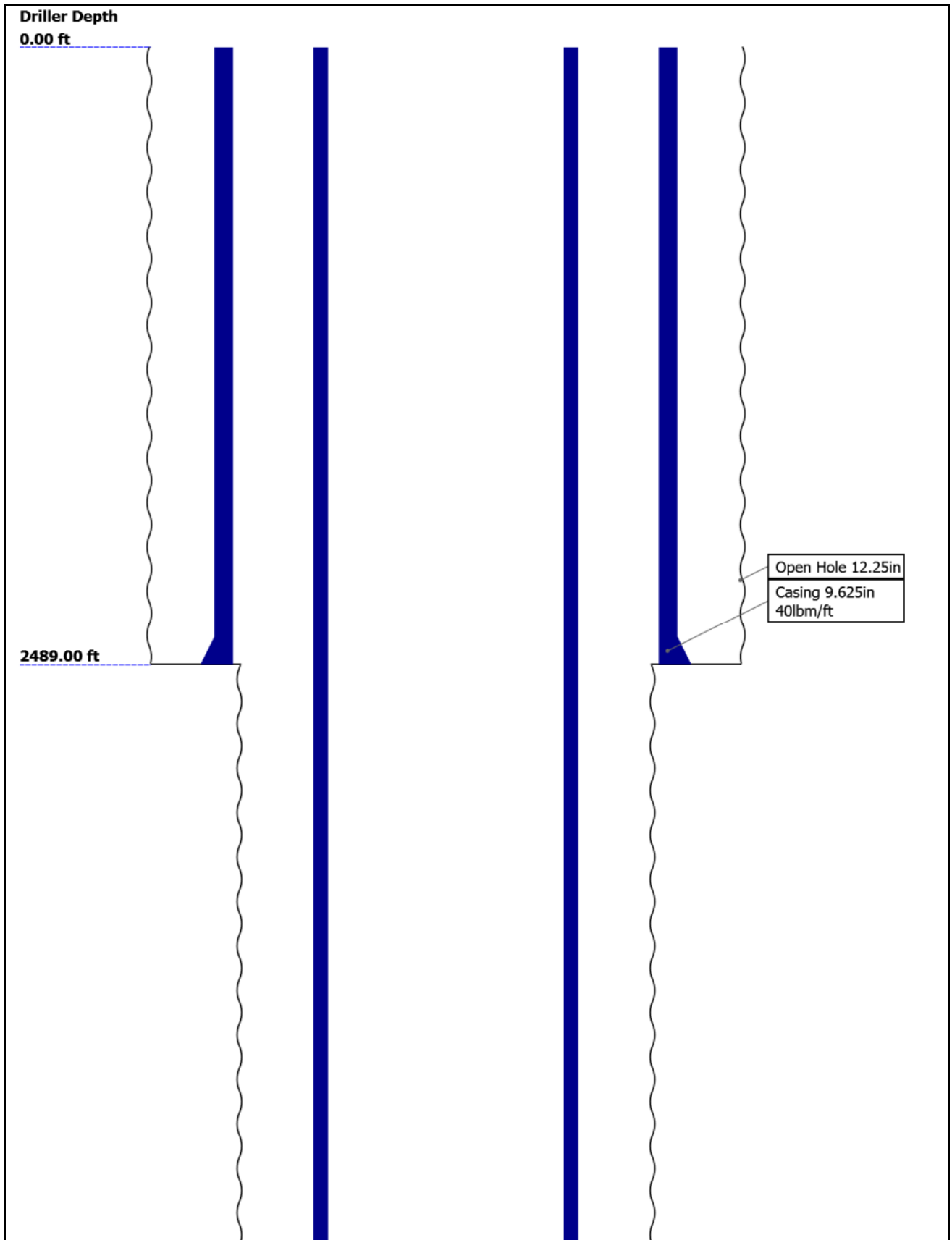
| | | | | | |
|---|---|---|---|---|---|
| Logging Date | | 04-Aug-2017 | | | |
| Run Number | | Trip 3 Run 1 | | | |
| Depth Driller | | 5877.00 ft | | | |
| Schlumberger Depth | | 5877.00 ft | | | |
| Bottom Log Interval | | 5740.00 ft | | | |
| Top Log Interval | | 100.00 ft | | | |
| Casing Fluid Type | | Water | | | |
| Salinity | | | | | |
| Density | | 8.34 lbm/gal | | | |
| Fluid Level | | 8.00 ft | | | |
| BIT/CASING/TUBING STRING | | | | | |
| Bit Size | | 8.50 in | | | |
| From | | 2489.00 ft | | | |
| To | | 5877.00 ft | | | |
| Casing/Tubing Size | | 5.5 in | | | |
| Weight | | 17 lbm/ft | | | |
| Grade | | N/A | | | |
| From | | 0.00 ft | | | |
| To | | 5871.00 ft | | | |
| Max Recorded Temperatures | | | | | |
| Logger on Bottom | Time | 04-Aug-2017 | 12:15:00 | | |
| Unit Number | Location: | 2365 | Laurel, MS | | |
| Recorded By | | Mark Butler | | | |
| Witnessed By | | | | | |

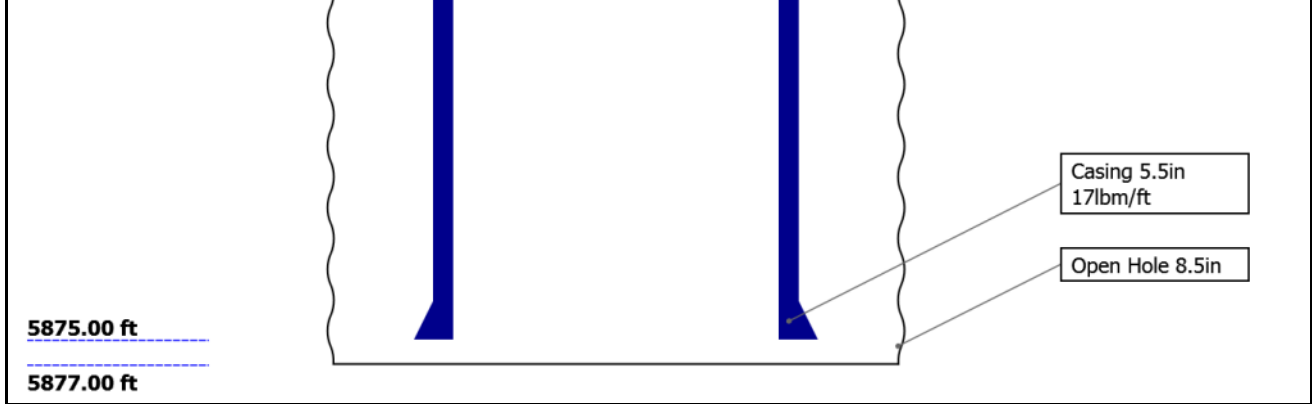
## Disclaimer



## Contents

## Well Sketch






## Borehole Size/Casing/Tubing Record

| | | | | | | |
|---|---|---|---|---|---|---|
| **Bit** | | | | | | |
| Bit Size ( in ) | 12.25 | 8.5 | | | | |
| Top Driller ( ft ) | 0 | 2489 | | | | |
| Top Logger ( ft ) | 0 | 2489 | | | | |
| Bottom Driller ( ft ) | 2489 | 5877 | | | | |
| Bottom Logger ( ft ) | 2489 | 5877 | | | | |
| **Casing** | | | | | | |
| Size ( in ) | 9.625 | 5.5 | | | | |
| Weight ( lbm/ft ) | 40 | 17 | | | | |
| Inner Diameter ( in ) | 8.835 | 4.892 | | | | |
| Grade | N/A | N/A | | | | |
| Top Driller ( ft ) | 0 | 0 | | | | |
| Top Logger ( ft ) | 0 | 0 | | | | |
| Bottom Driller ( ft ) | 2489 | 5875 | | | | |
| Bottom Logger ( ft ) | 2489 | 5871 | | | | |

## Operational Run Summary

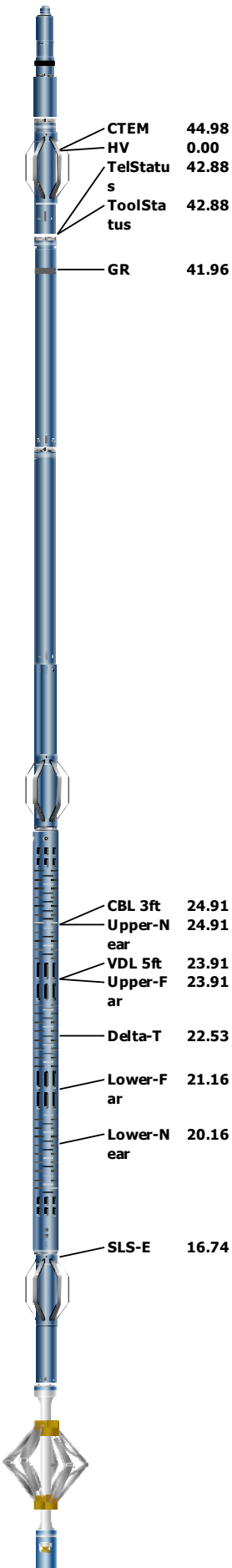
| **Parameter ( unit )** | **Trip 3 Run 1** | | | | | |
|---|---|---|---|---|---|---|
| Date Log Started | 04-Aug-2017 | | | | | |
| Time Log Started | 11:28:35 | | | | | |
| Date Log Finished | 04-Aug-2017 | | | | | |
| Time Log Finished | 15:11:11 | | | | | |
| | | | | | | |
| Top Log Interval ( ft ) | 100.00 | | | | | |
| Bottom Log Interval ( ft ) | 5740.00 | | | | | |
| | | | | | | |
| Total Depth ( ft ) | | | | | | |
| Max Hole Deviation ( deg ) | 0.00 | | | | | |
| Azimuth of Max Deviation ( deg ) | 0.00 | | | | | |
| Bit Size ( in ) | 8.500 | | | | | |
| | | | | | | |
| Logging Unit Number | 2365 | | | | | |
| Logging Unit Location | Laurel, MS | | | | | |
| Recorded By | Mark Butler | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Witnessed By | | | | | | |
| Service Order Number | C8W0-00275 | | | | | |

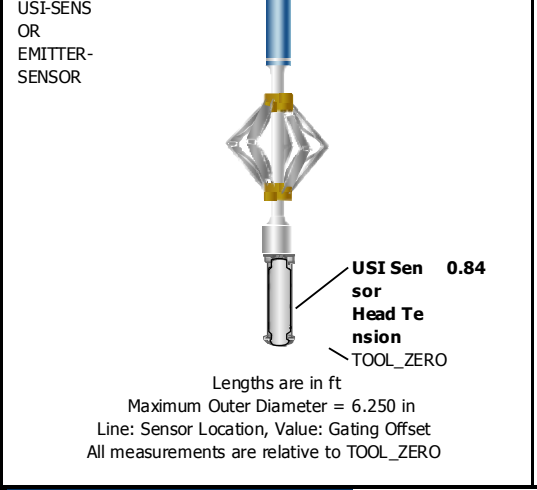
# Remarks and Equipment Summary

## Trip 3 Run 1: Toolstring

| Equip name | Length | MP name | Offset |
|---|---|---|---|
| **LEH-QT** | **48.8** | | |
| LEH-QT | | | |
| **DTC-H:8487** | **45.88** | **CTEM** | **44.98** |
| ECH-KC | | **HV** | **0.00** |
| DTC-H:8487 | | **TelStatus** | **42.88** |
| | | **ToolStatus** | **42.88** |
| **SGT-N:9535** | **42.88** | **GR** | **41.96** |
| SGH-K:2392 | | | |
| SGD-TAA:21049 | | | |
| SGC-TB:9535 | | | |
| **DSLT-H:8279** | **37.38** | **CBL 3ft** | **24.91** |
| ECH-KH:8331 | | **Upper-Near** | **24.91** |
| DSLC-H:8279 | | **VDL 5ft** | **23.91** |
| SLS-E:175 | | **Upper-Far** | **23.91** |
| | | **Delta-T** | **22.53** |
| | | **Lower-Far** | **21.16** |
| | | **Lower-Near** | **20.16** |
| | | **SLS-E** | **16.74** |
| **USIT-E:943** | **16.74** | | |
| ECH-MFA:1928 | | | |
| USAC-A:943 | | | |
| USIS-A:2739 | | | |
| USSC-B:1707 | | | |
| IBCS-A:870 | | | |
| FAR-SENSOR | | | |
| NEAR-SENSOR | | | |



## Trip 3 Run 1: Remarks




Lengths are in ft
Maximum Outer Diameter = 6.250 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

## Depth Summary

| | Trip 3 Run 1 | | |
|---|---|---|---|
| **Depth Measuring Device** | | | |
| Type | IDW-JA | | |
| Serial Number | 6228 | | |
| Calibration Date | 17-May-2016 | | |
| Calibrator Serial Number | | | |
| Calibration Cable Type | 7-46-AXS | | |
| Wheel Correction 1 | -6 | | |
| Wheel Correction 2 | -6 | | |
| **Tension Device** | | | |
| Type | CMTD-B/A | | |
| Serial Number | 3015 | | |
| Calibration Date | 18-Jul-2017 | | |
| Calibrator Serial Number | 1241 | | |
| Number of Calibration Points | 10 | | |
| Calibration Root Mean Square Error | 6 | | |
| Calibration Peak Error | 10 | | |
| **Logging Cable** | | | |
| Type | 7-46A-XS | | |
| Serial Number | | | |
| Length | 26000.00 ft | | |
| Conveyance Type | Wireline | | |
| Rig Type | Crane | | |

| Trip 3 Run 1:Depth Control Parameters | | Depth Control Remarks |
|---|---|---|
| Log Sequence | Subsequent Trip To the Well | |
| Reference Log Name | | |
| Reference Log Run Number | | |
| Reference Log Date | | |
| Subsequent Trip Down Log Correction | | |

## USIT - Fluid Properties Measurement

| Run Name | Pass Name | Start Depth(ft) | Stop Depth(ft) |
|---|---|---|---|
| Run 2 | Log[4]:Up | 5738.87 | 39.35 |

**Fluid Velocity = "Automatic"**

CFVL equals DFSL channel

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

Mud Impedance = "FreePipe Norm.".
Free Pipe normalization zone is : 13.67m(44.85ft) to 16.34m(53.60ft)
MUD_N_FRP = 1.20
DFD = 1.00g/cm3(8.34lbm/gal)
CZMD median computed in free pipe normalization interval = 1.67 MRayl

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

# Trip 3 Run 1

# IBC SLG CBL VDL

## Software Version

| Acquisition System | Version |
|---|---|
| Maxwell 2017 SP2 | 7.2.87778.3100 |

## Pass Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
|---|---|---|---|---|---|---|---|---|---|
| Trip 3 Run 1 | Log[4]:Up | Up | 39.35 ft | 5738.87 ft | 04-Aug-2017 12:47:11 PM | 04-Aug-2017 3:10:50 PM | ON | 1.00 ft | Yes |

All depths are referenced to toolstring zero

## Log

Company:Mississippi Power Company Well:MPC 26-5 #1
Trip 3 Run 1: Log[4]:Up:S010

Description: USI IBC SLG Format: Log ( IBC SLG VDLCBL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 07-Aug-2017 16:39:17

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)

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

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR) SGT-N
0 gAPI 150

Absent -4.799 -2.799 -0.800
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

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

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

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

Absent 1.000 2.250 3.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

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

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
40 dB/m 140

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
40 dB/m 140

Absent 48.000 78.000 108.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

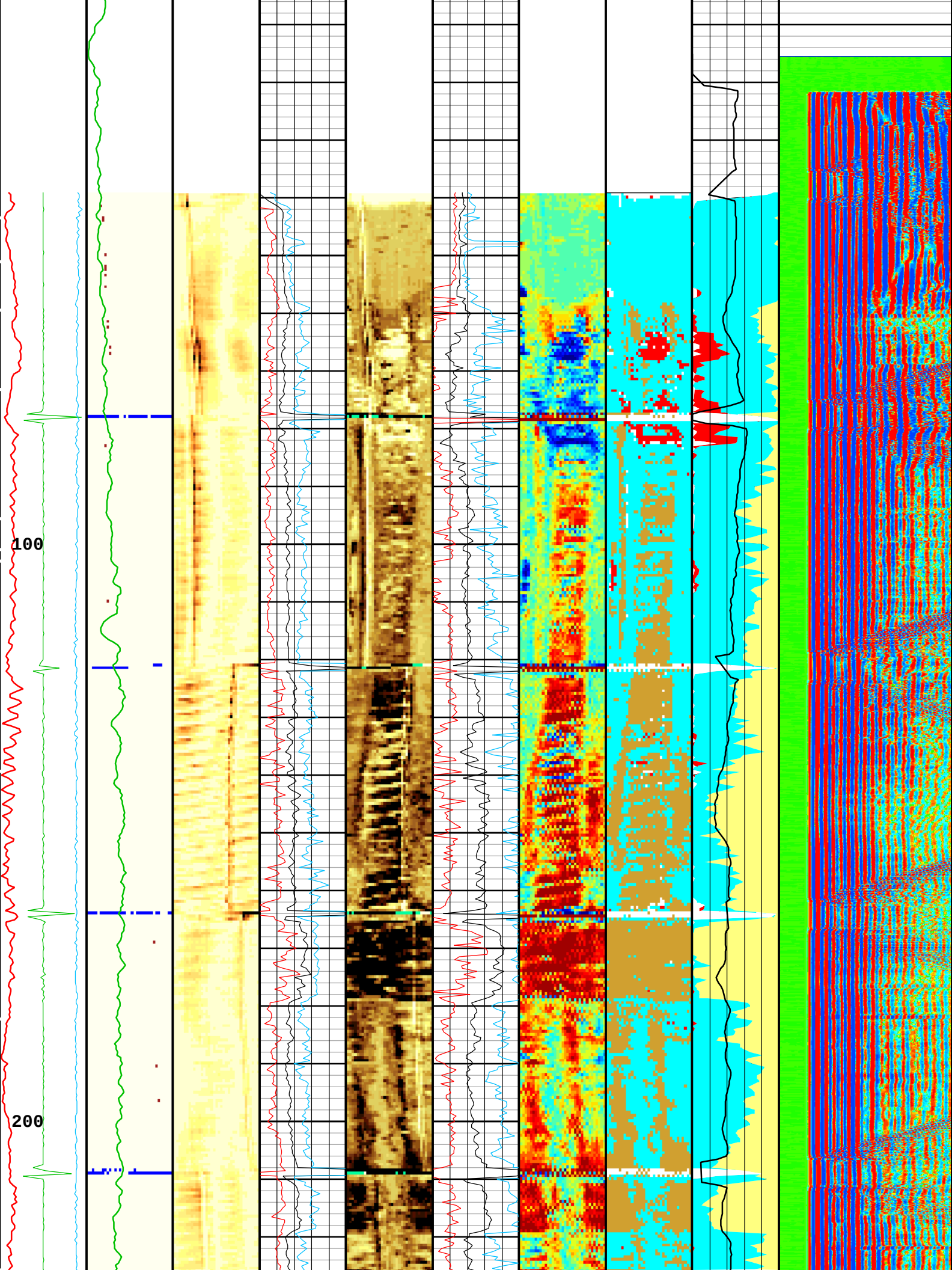
Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

SLG Solid Index
SLG Liquid Index
SLG Gas Index
SLG White Point Index

CBL Amplitude (CBL) DSLT-H
0 mV 100

Min Amplitude Max
Sonic VDL Curve DSLT-H
200 us 1200

0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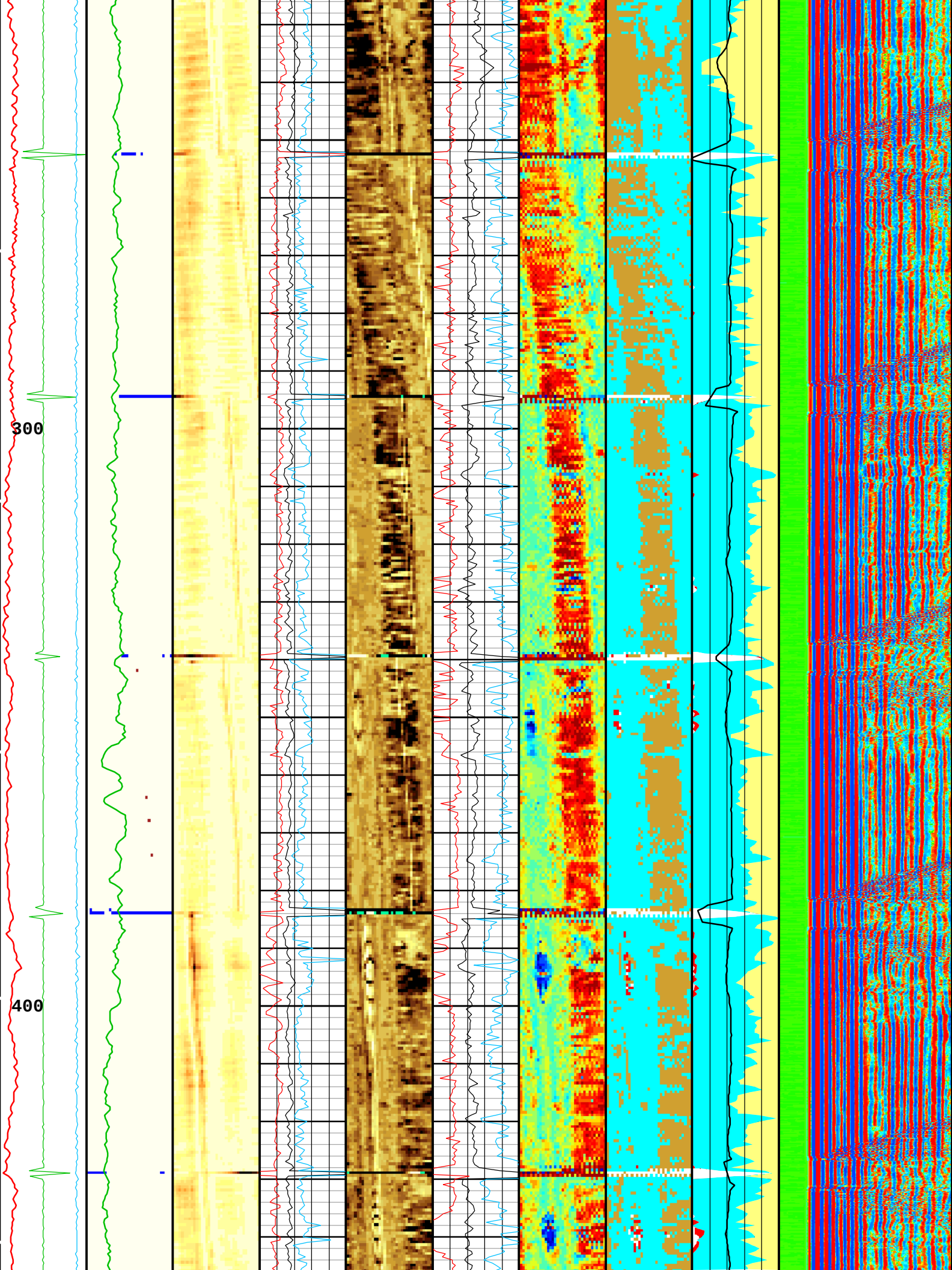
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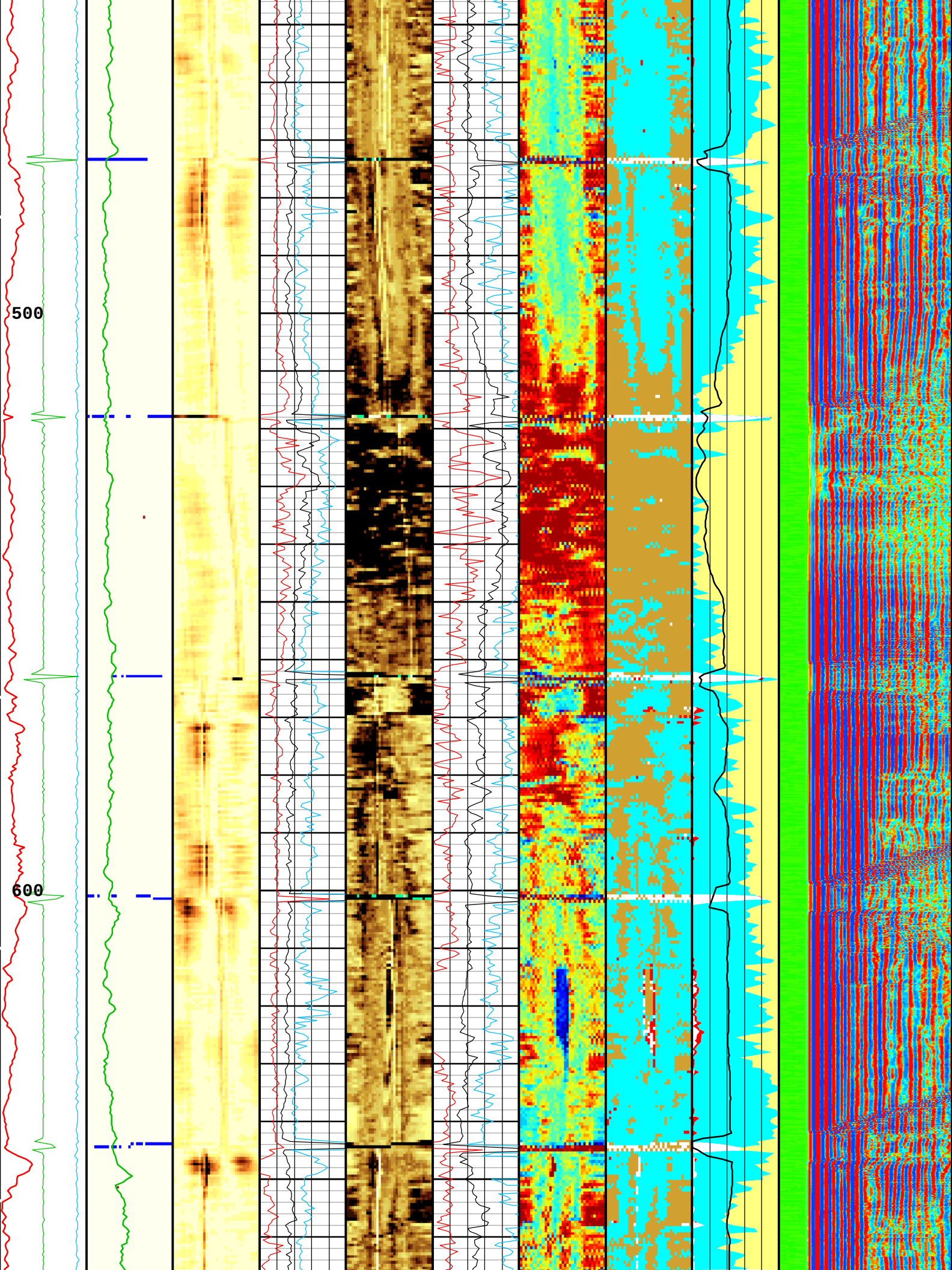
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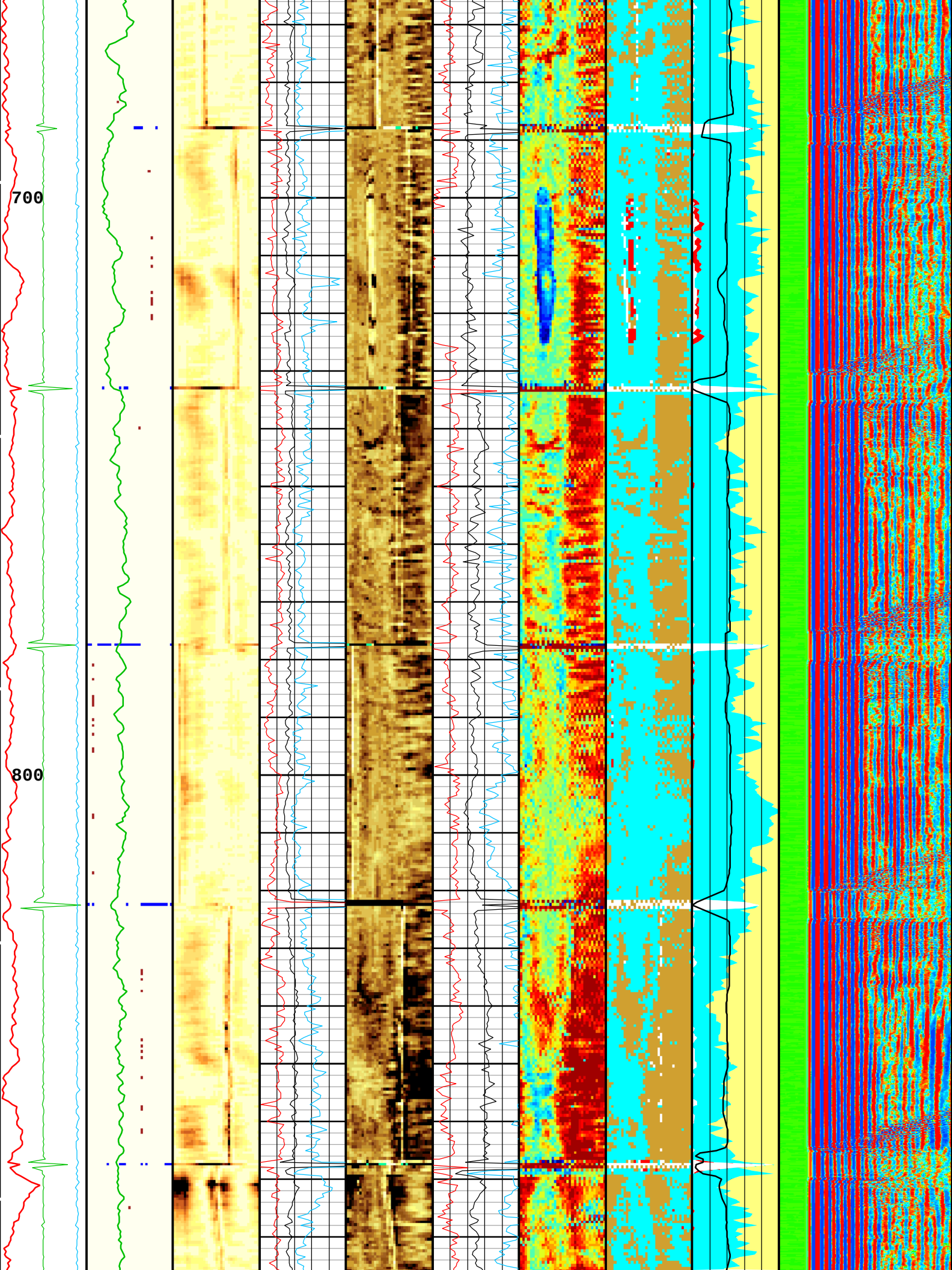
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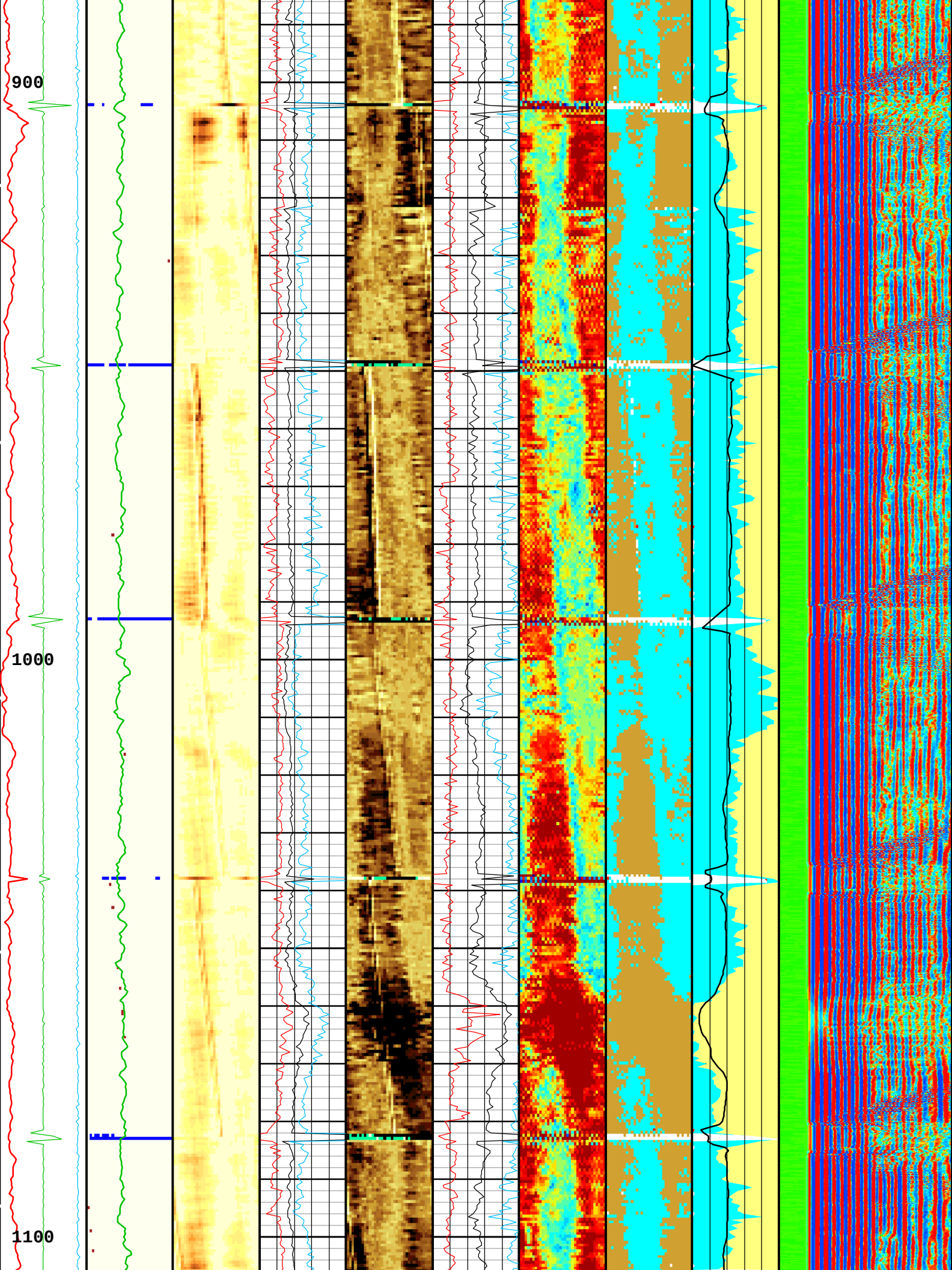
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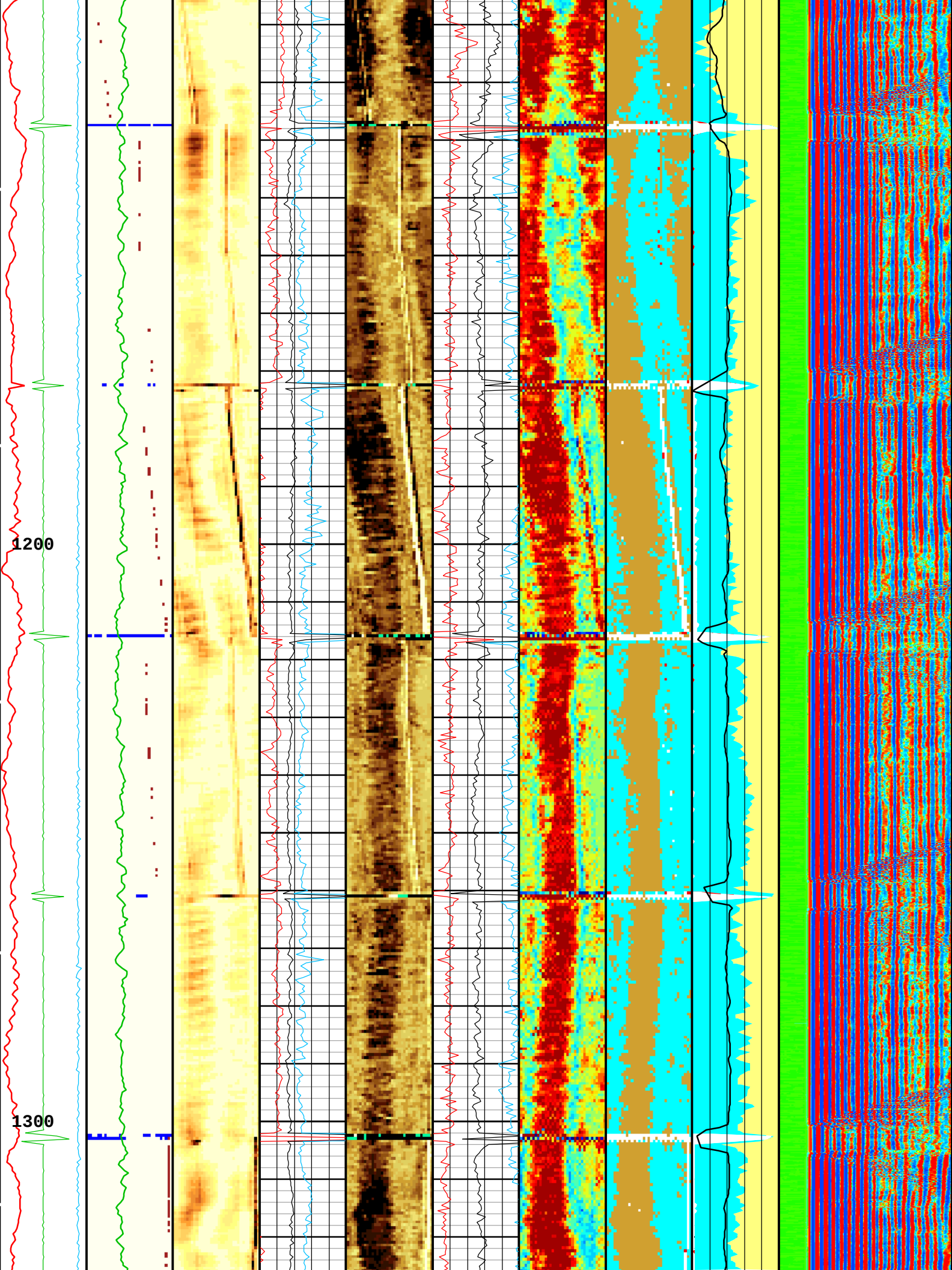
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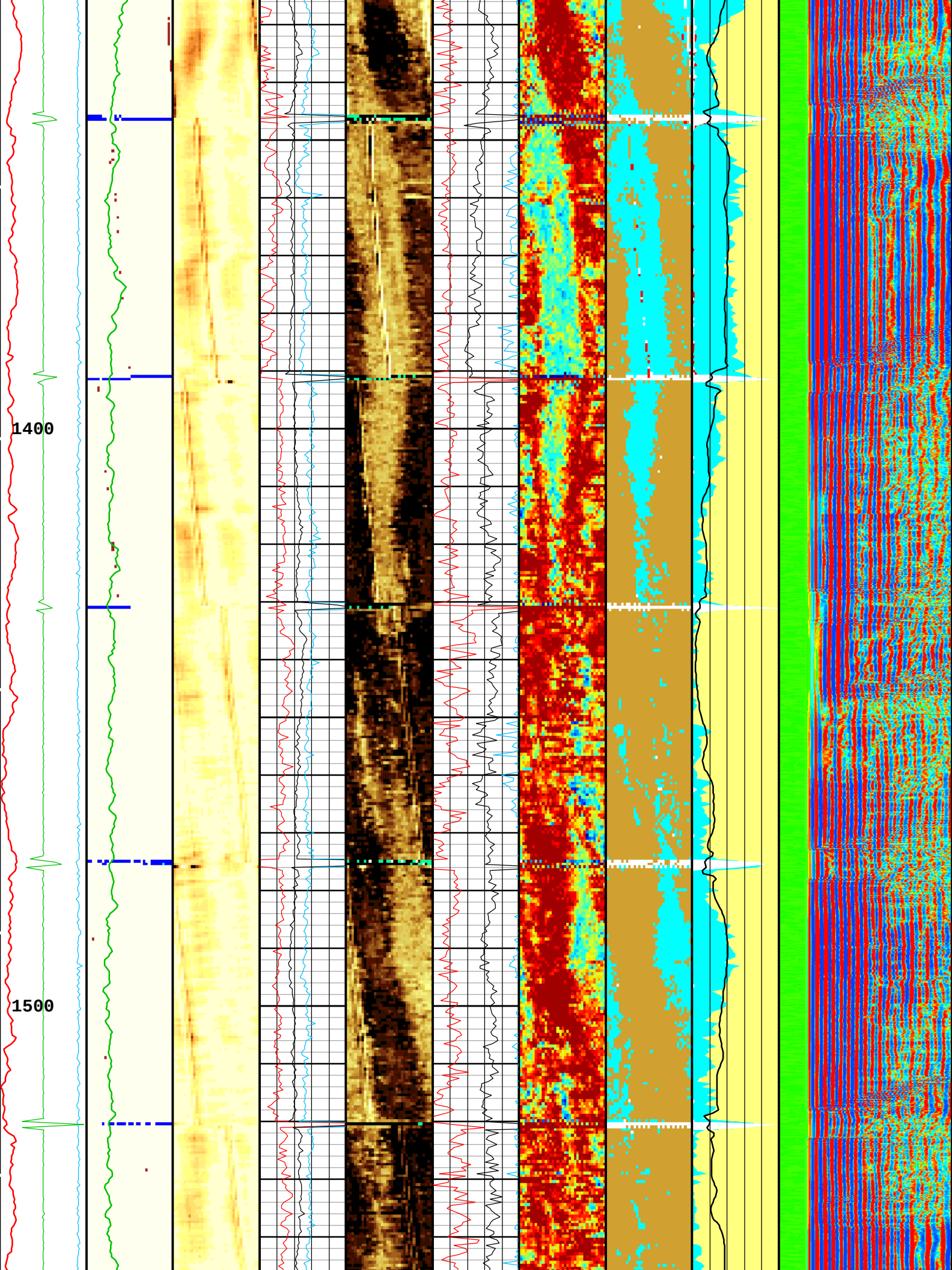
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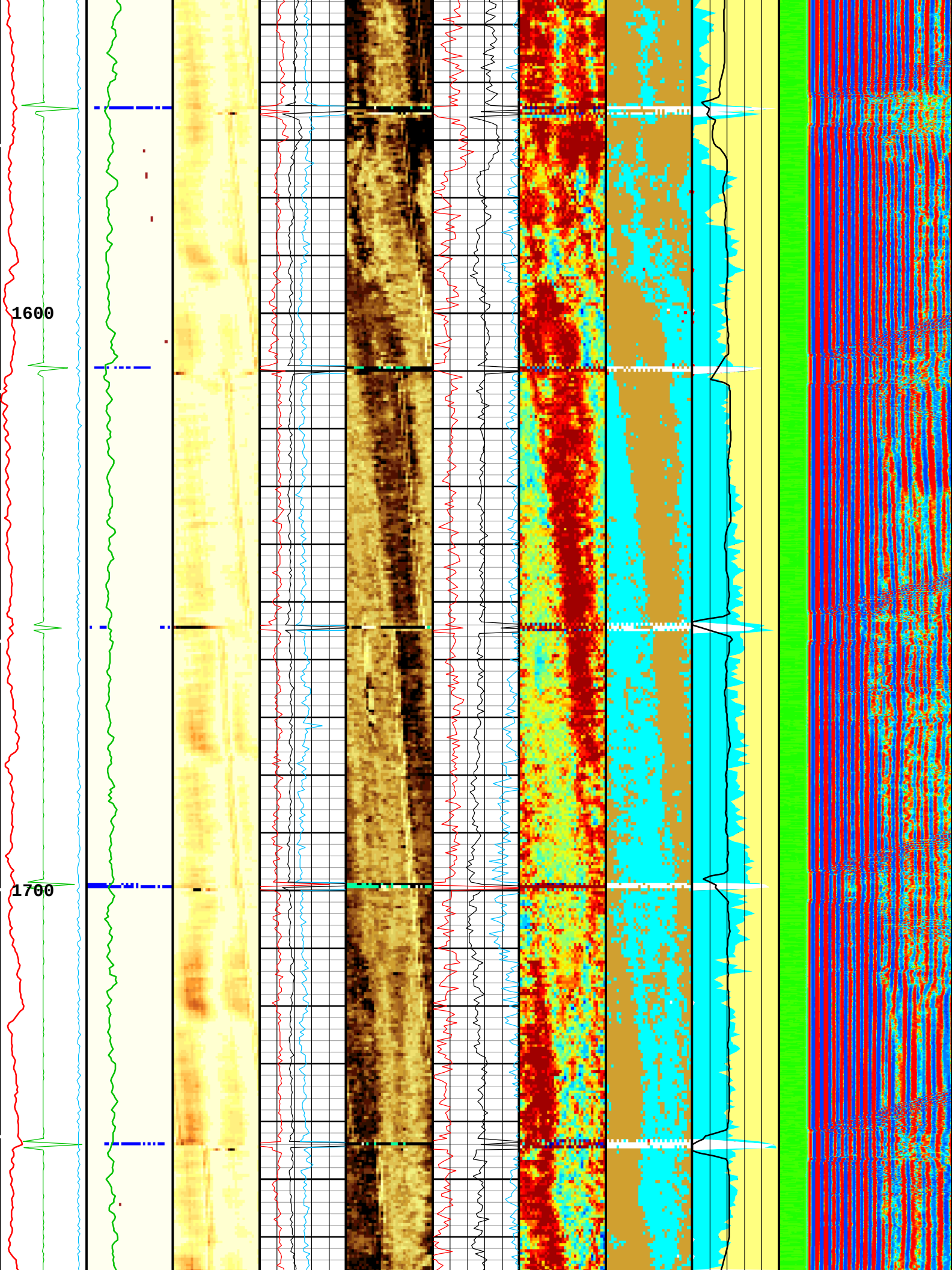
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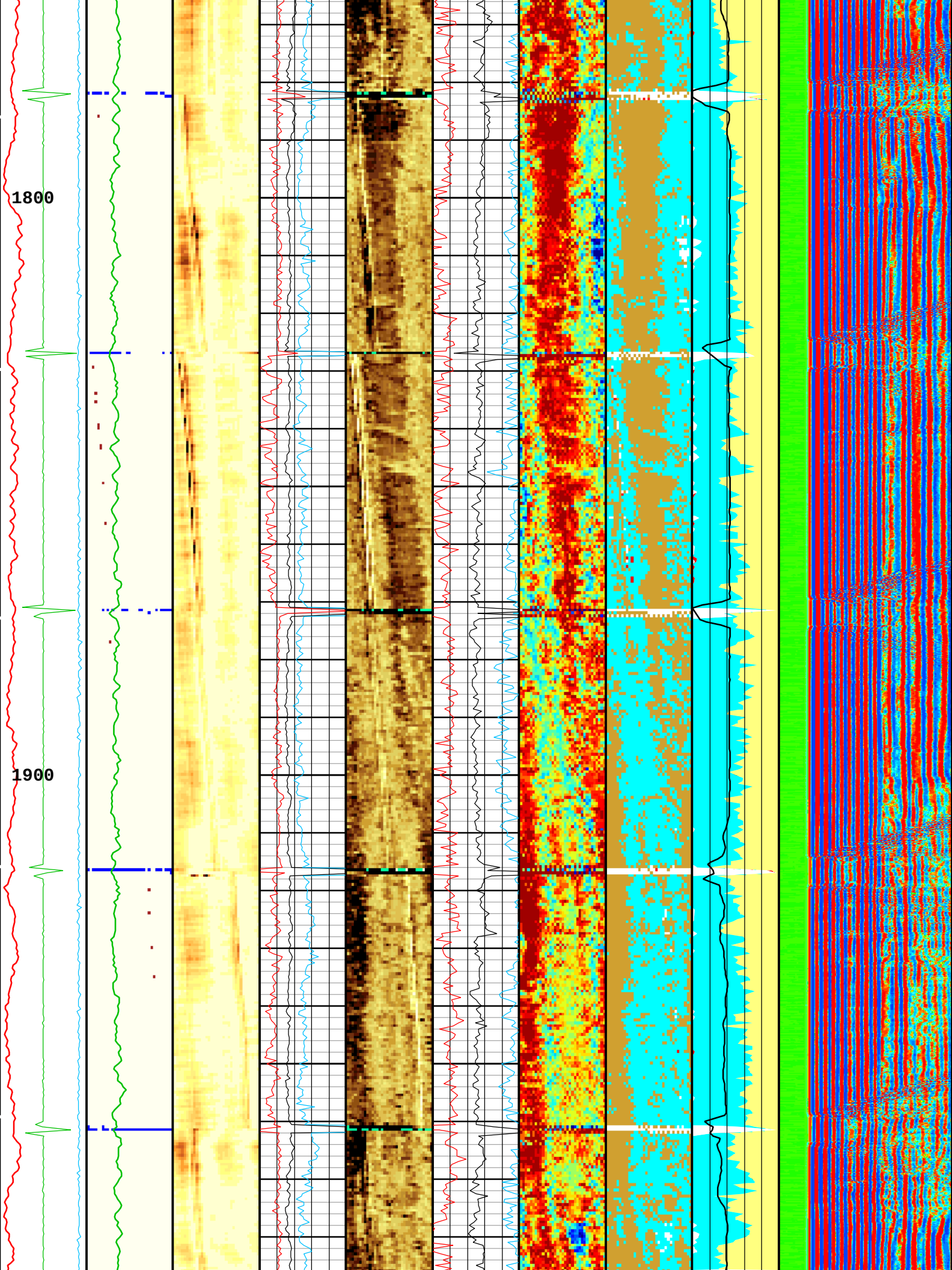
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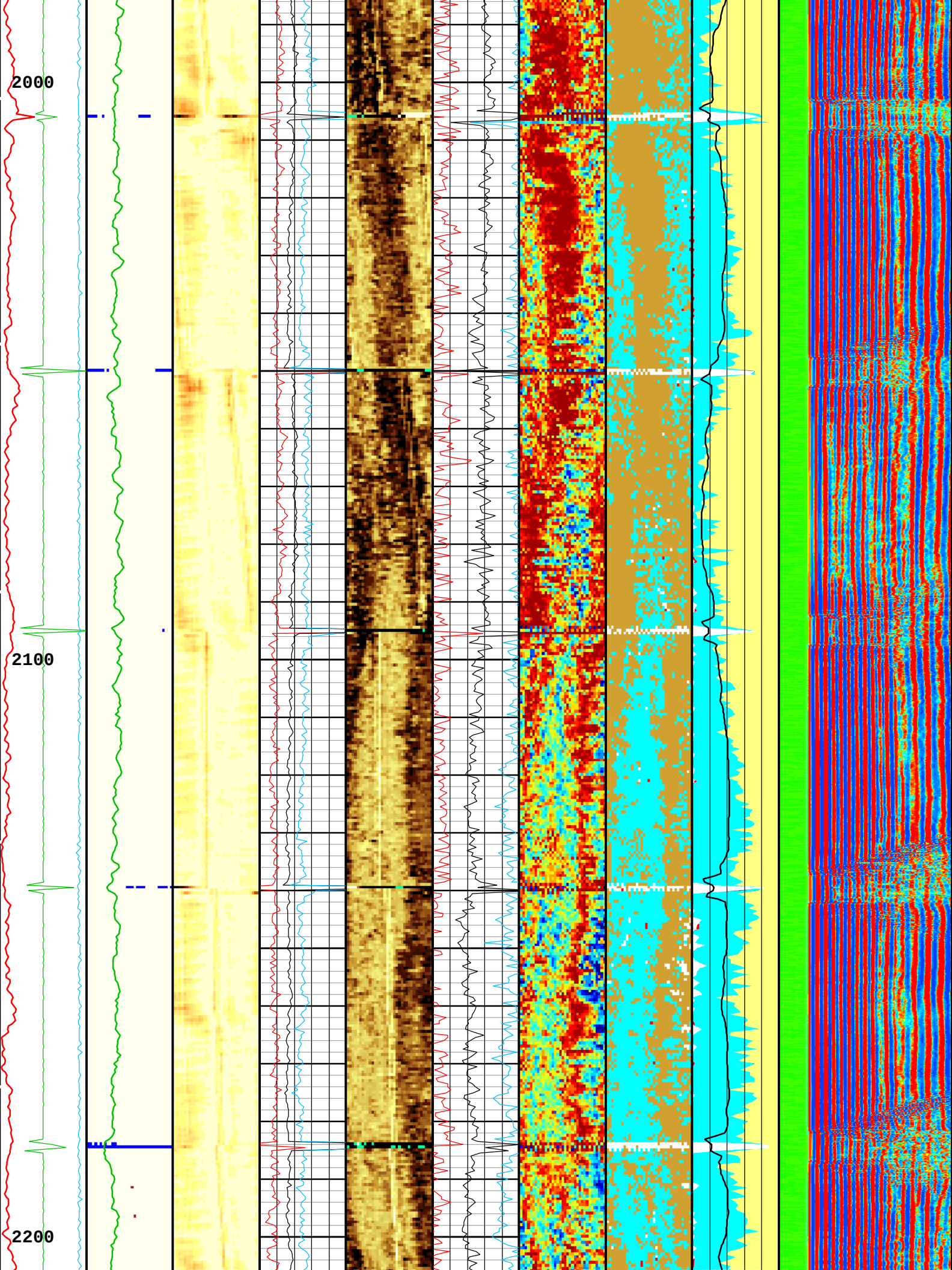
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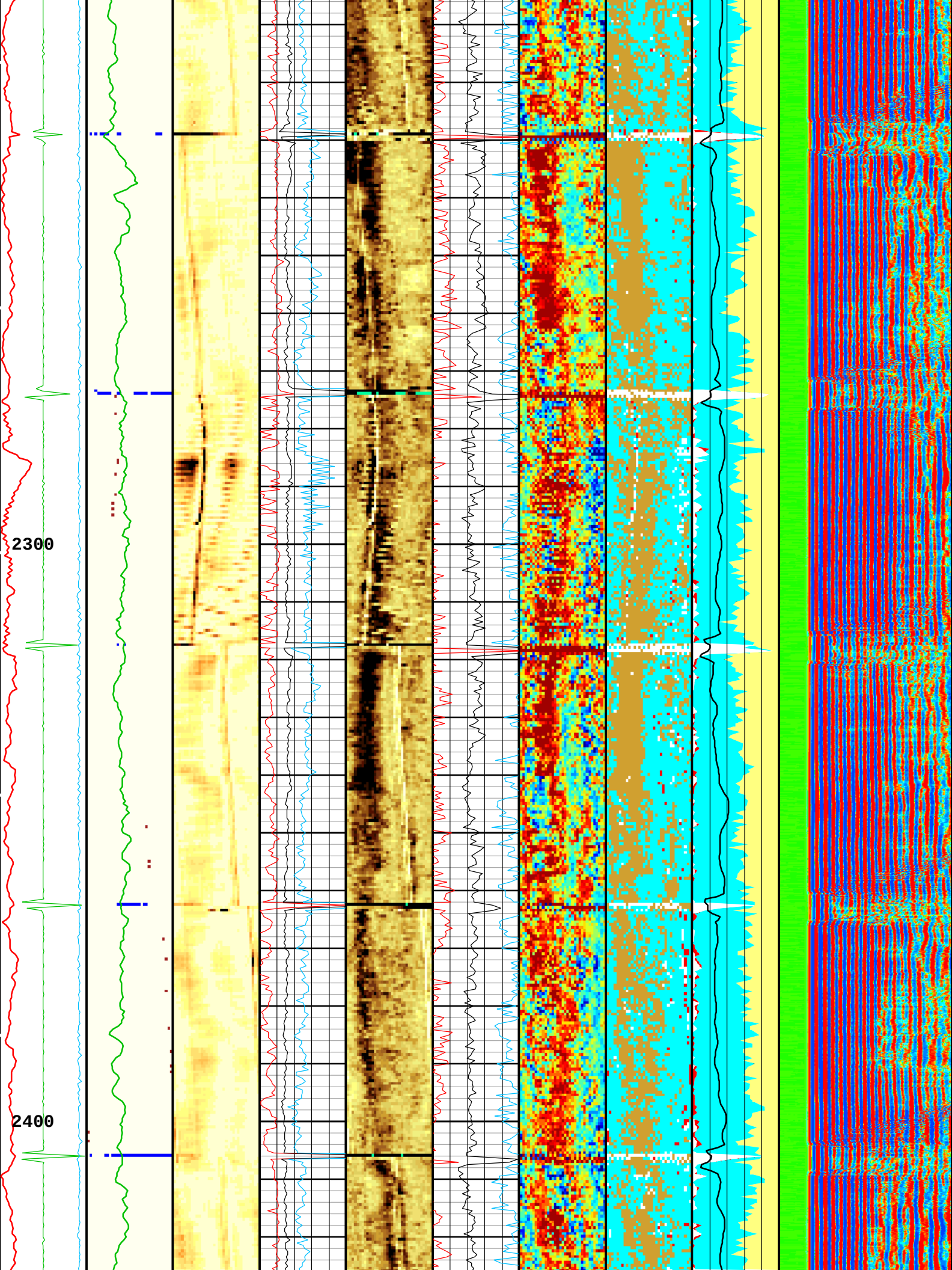
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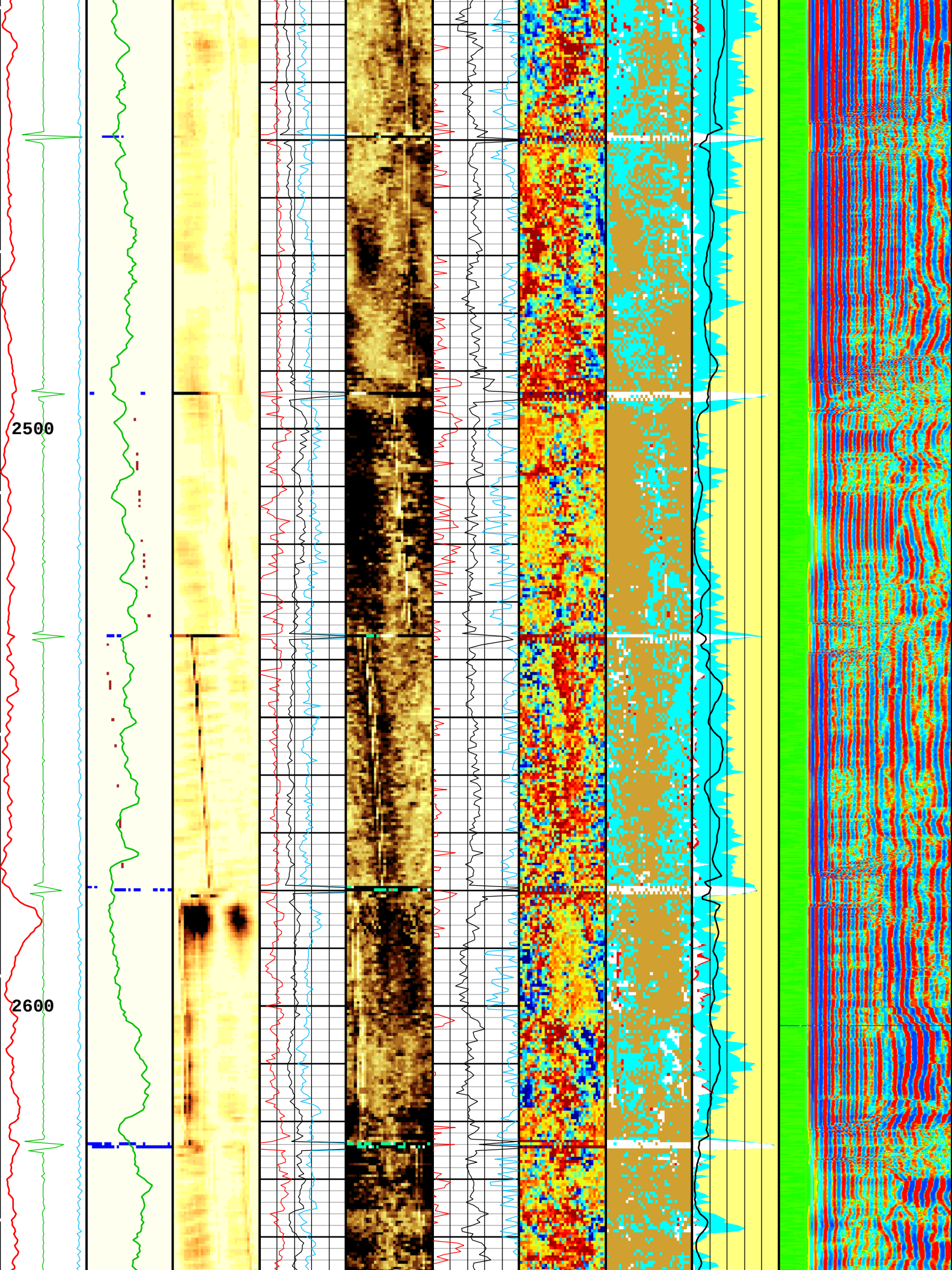
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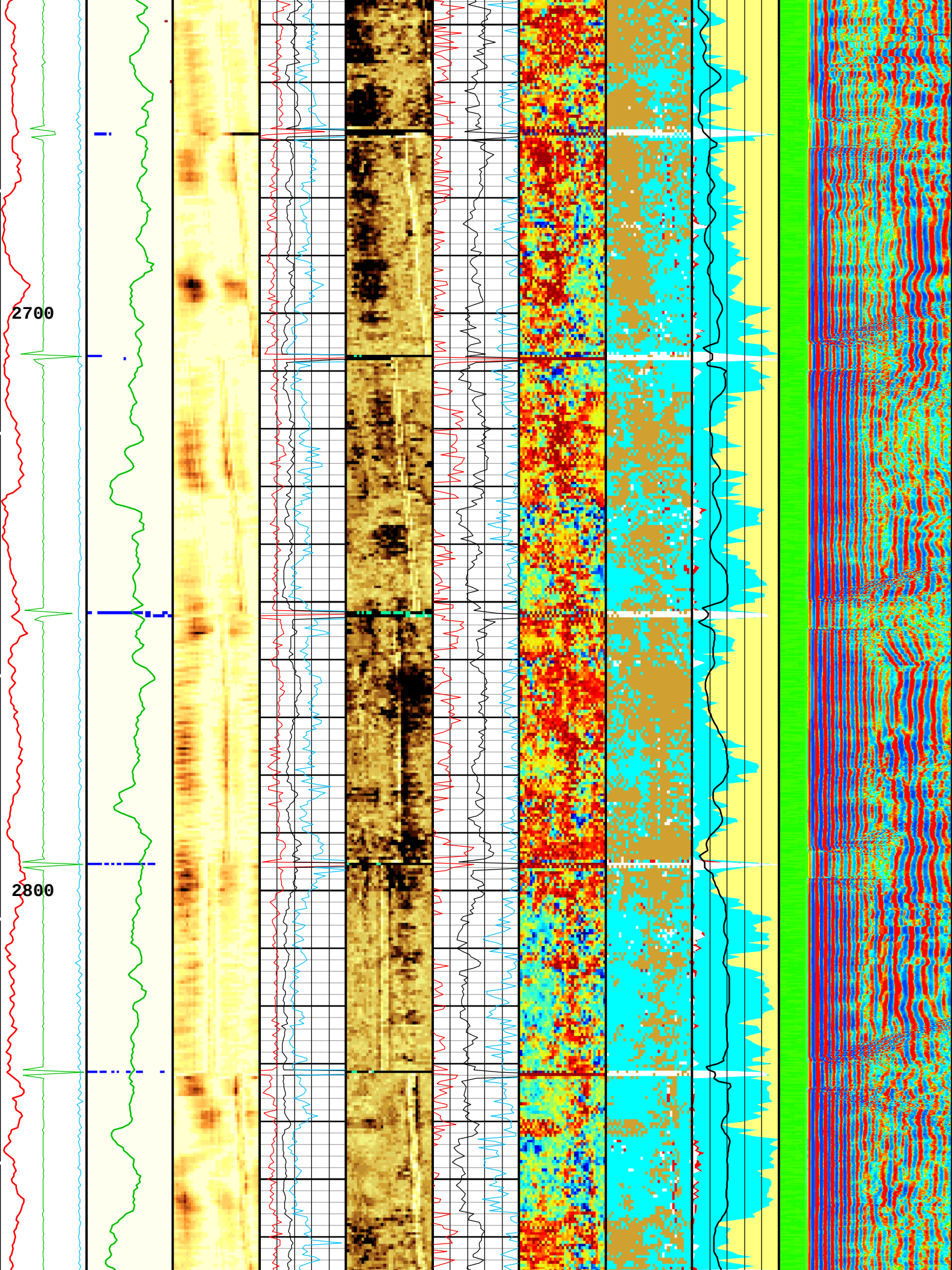
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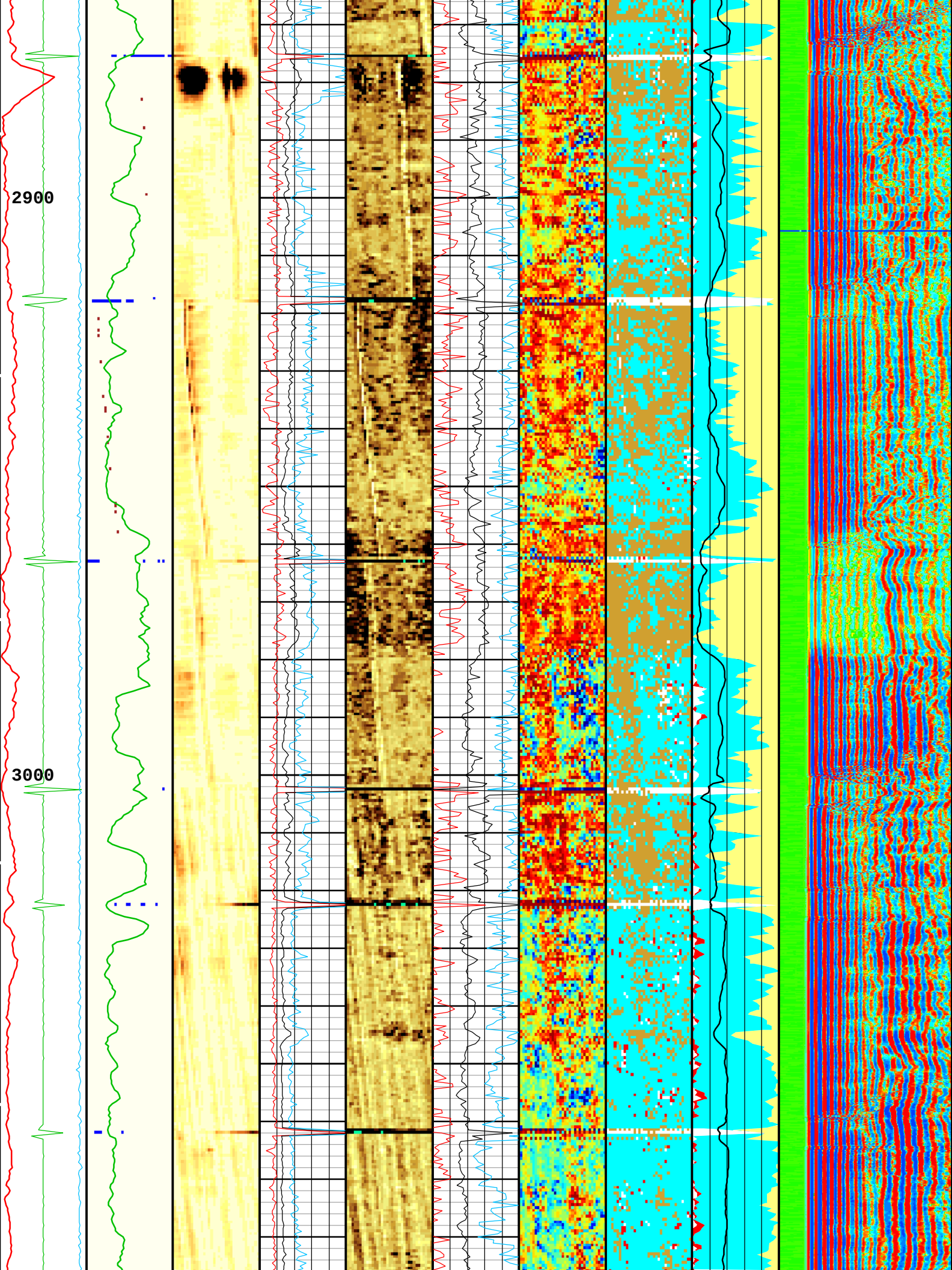
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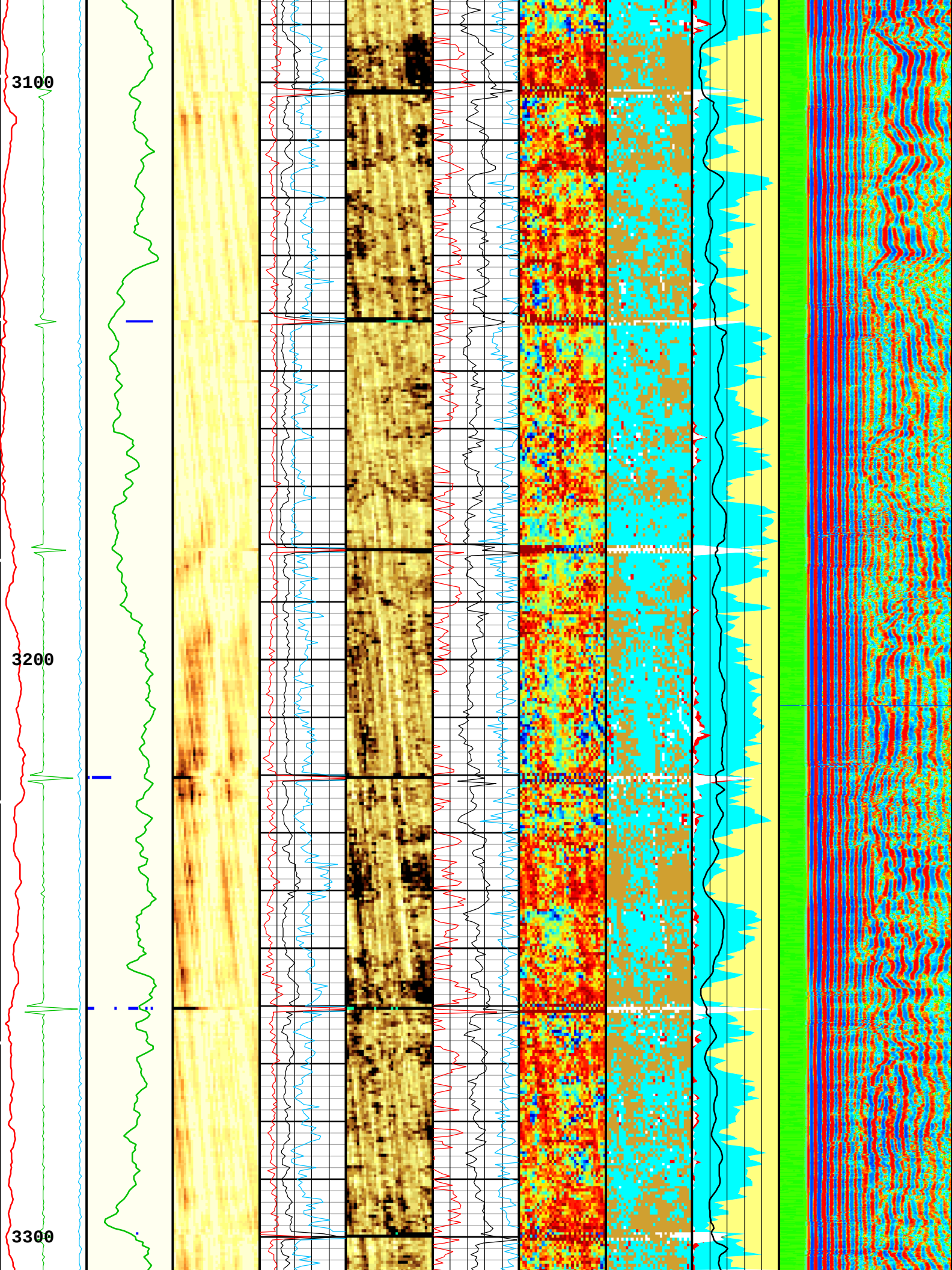
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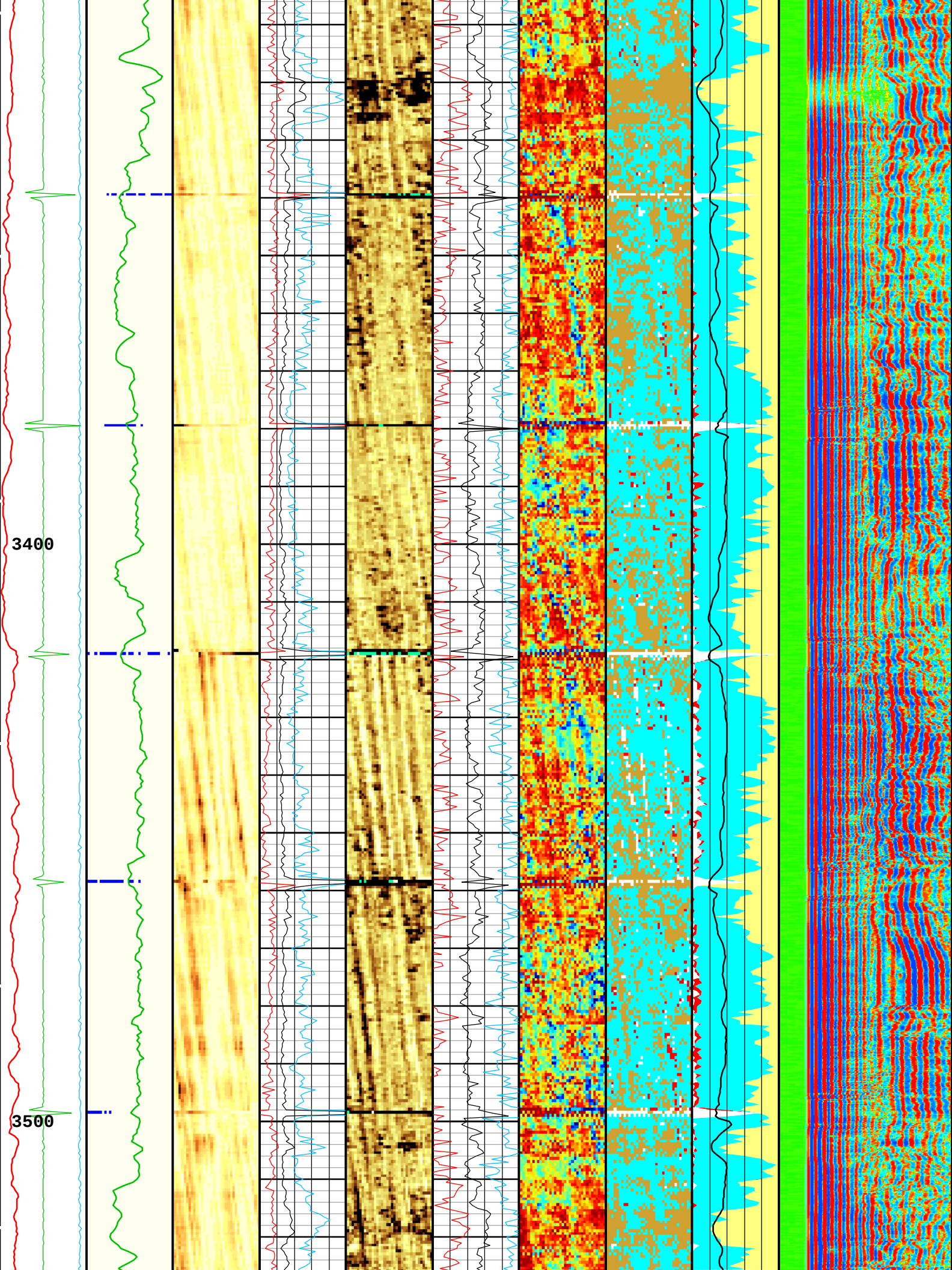
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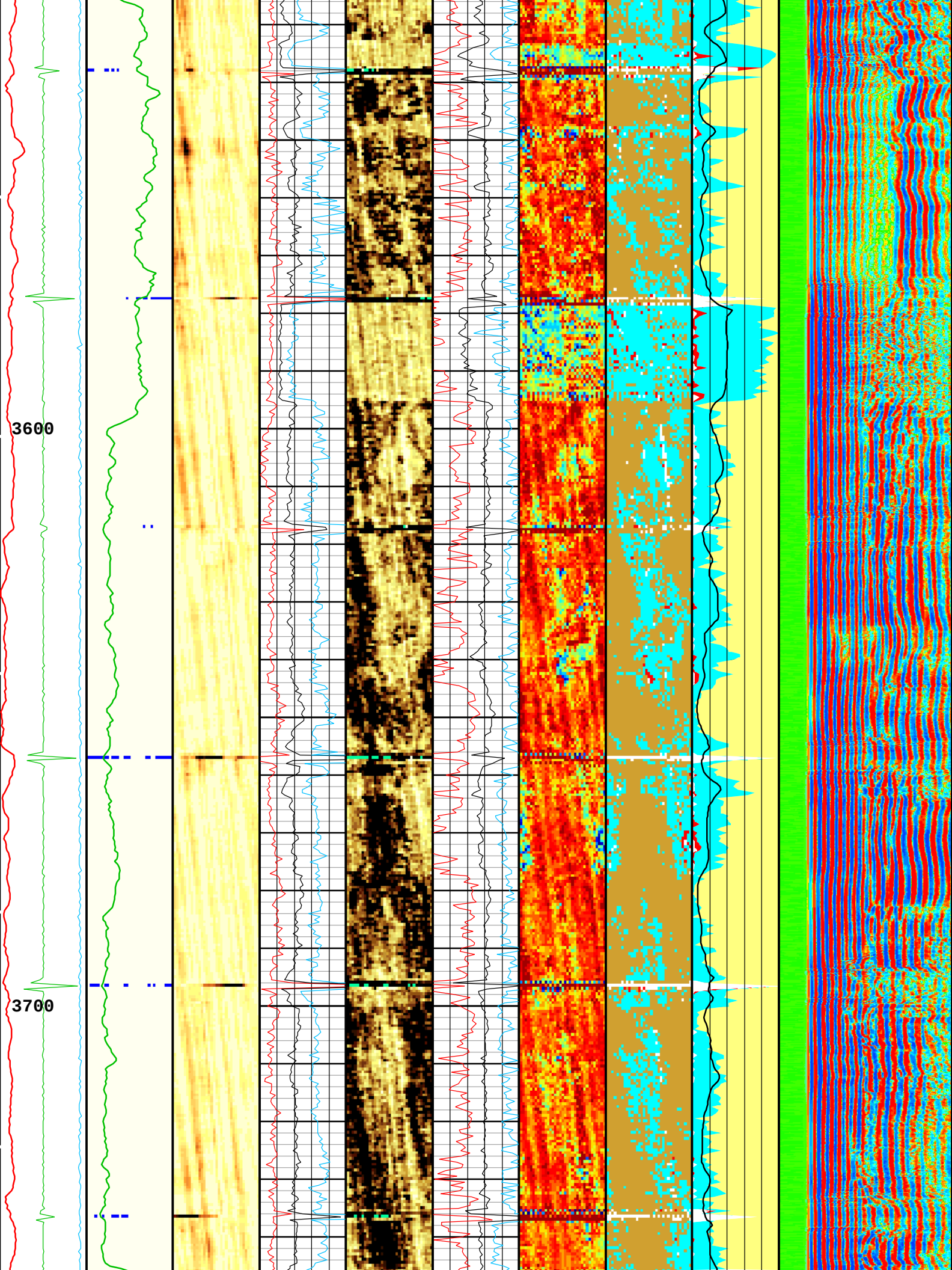
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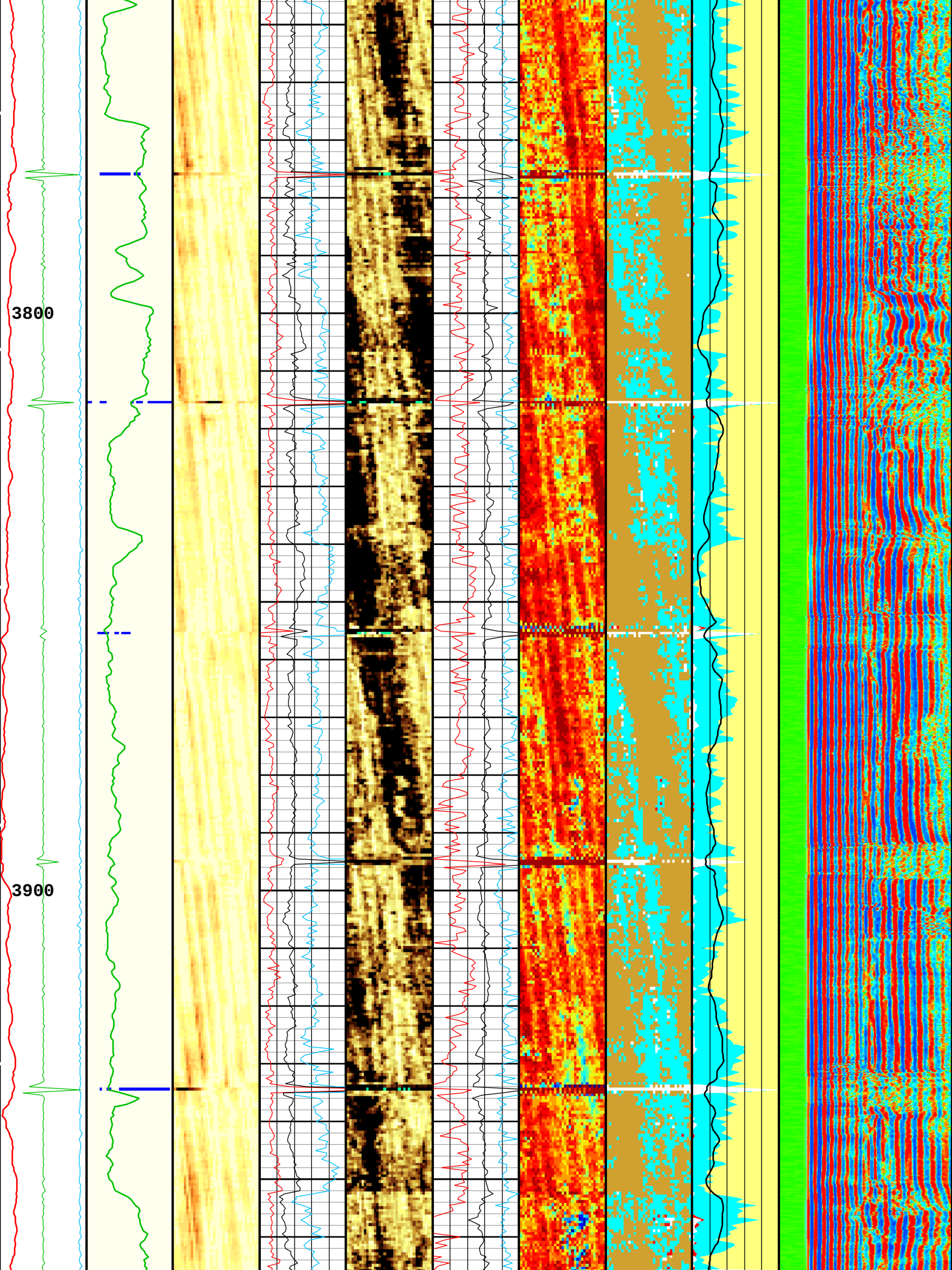
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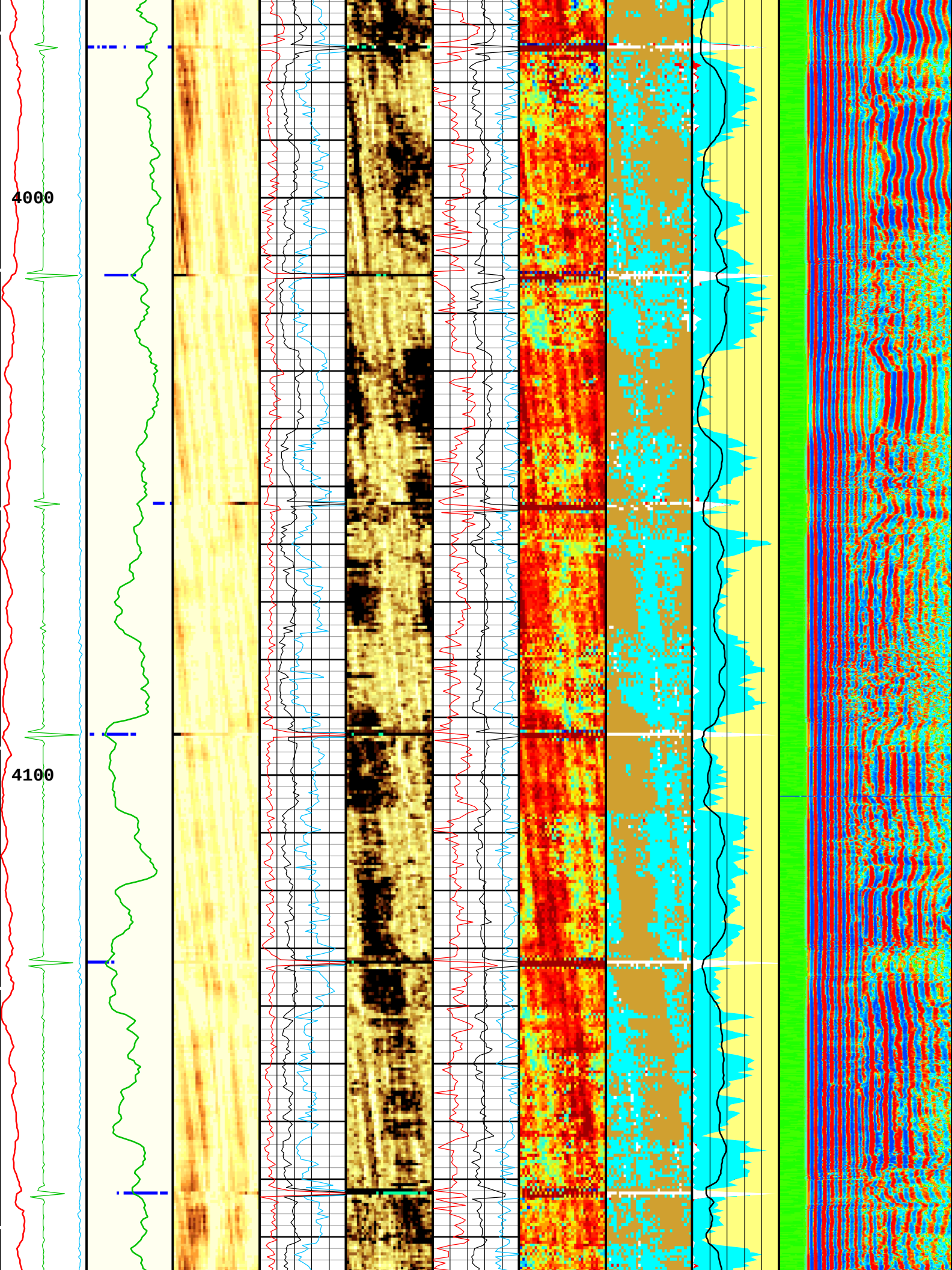
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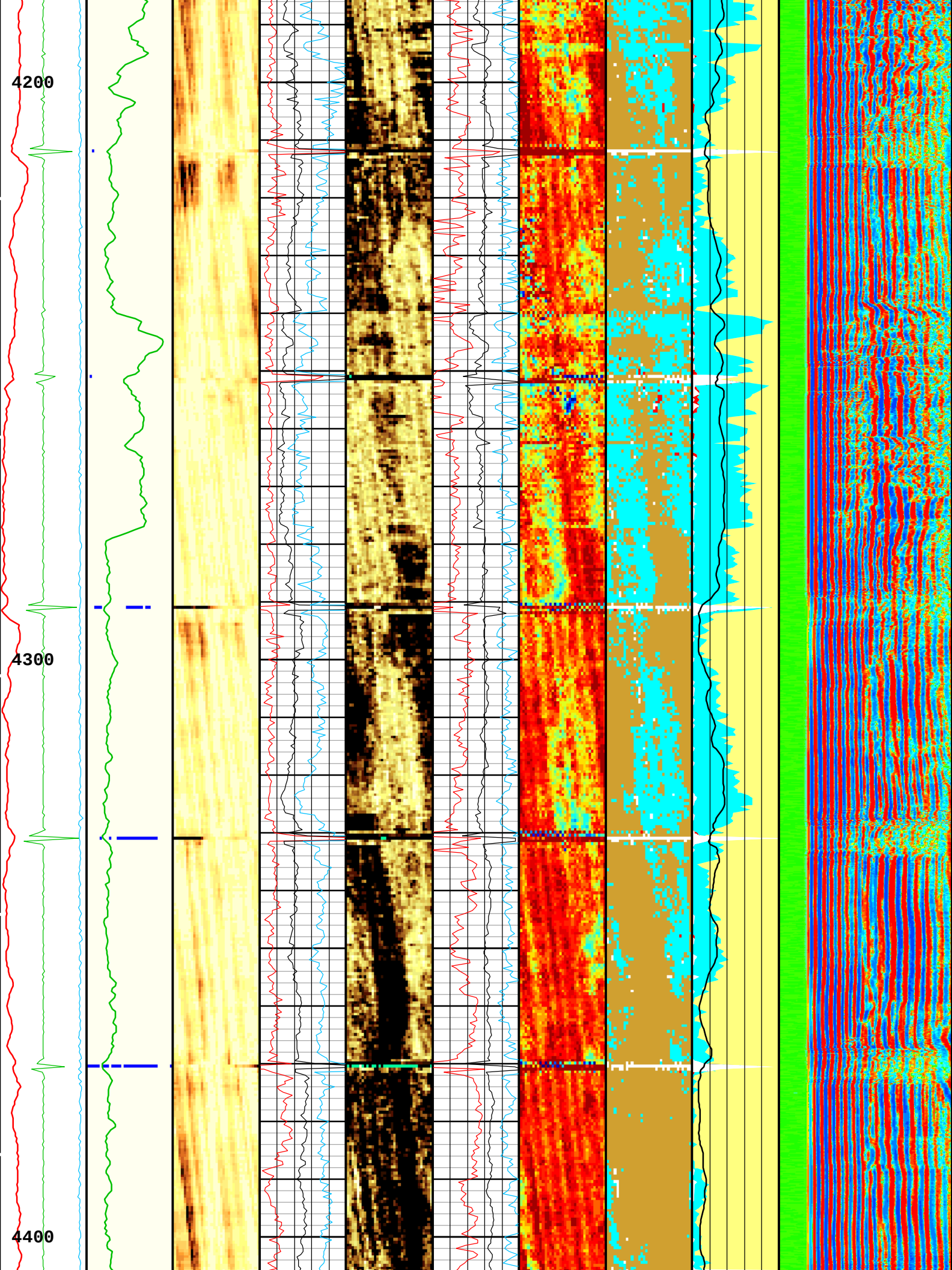
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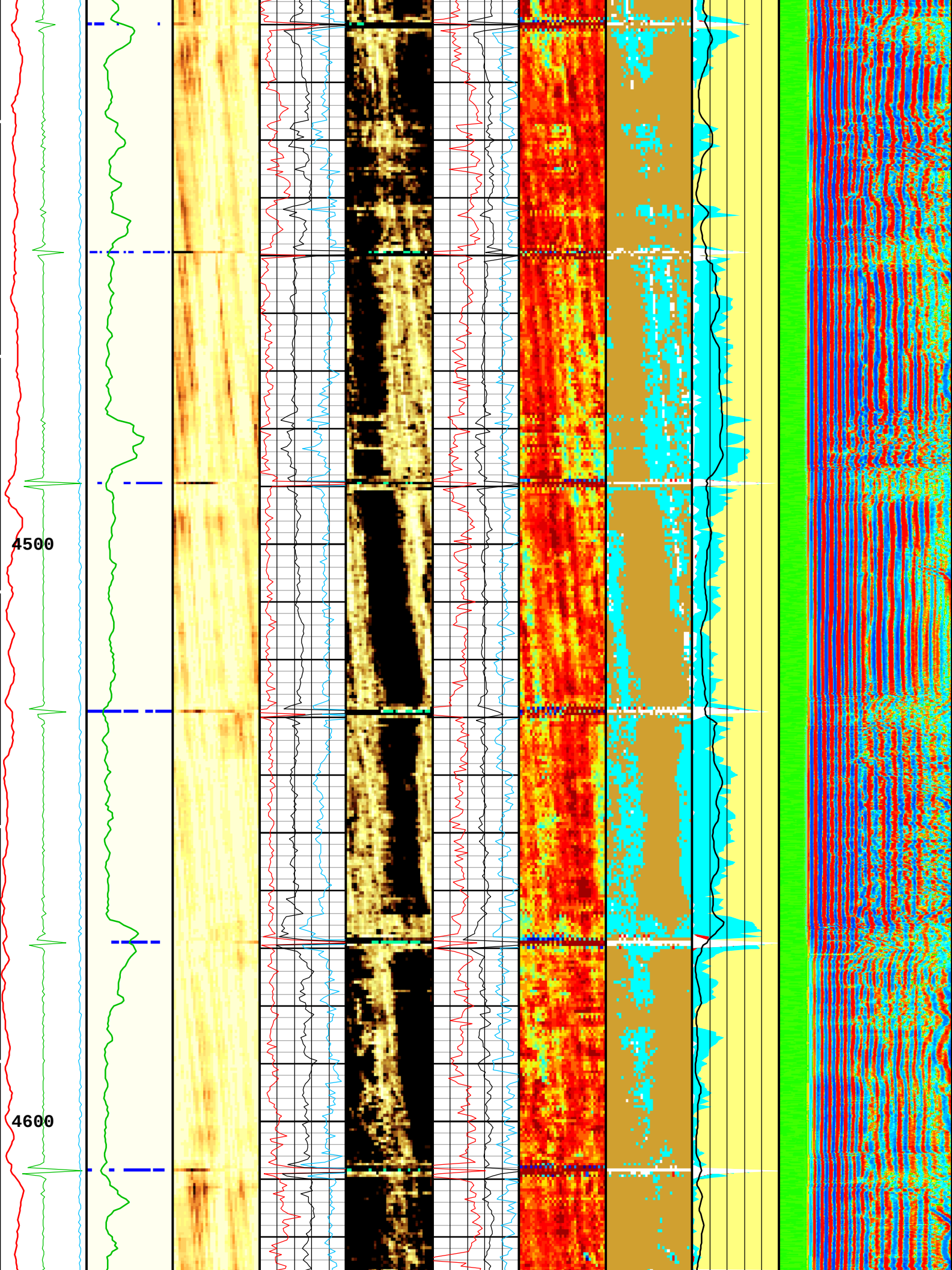
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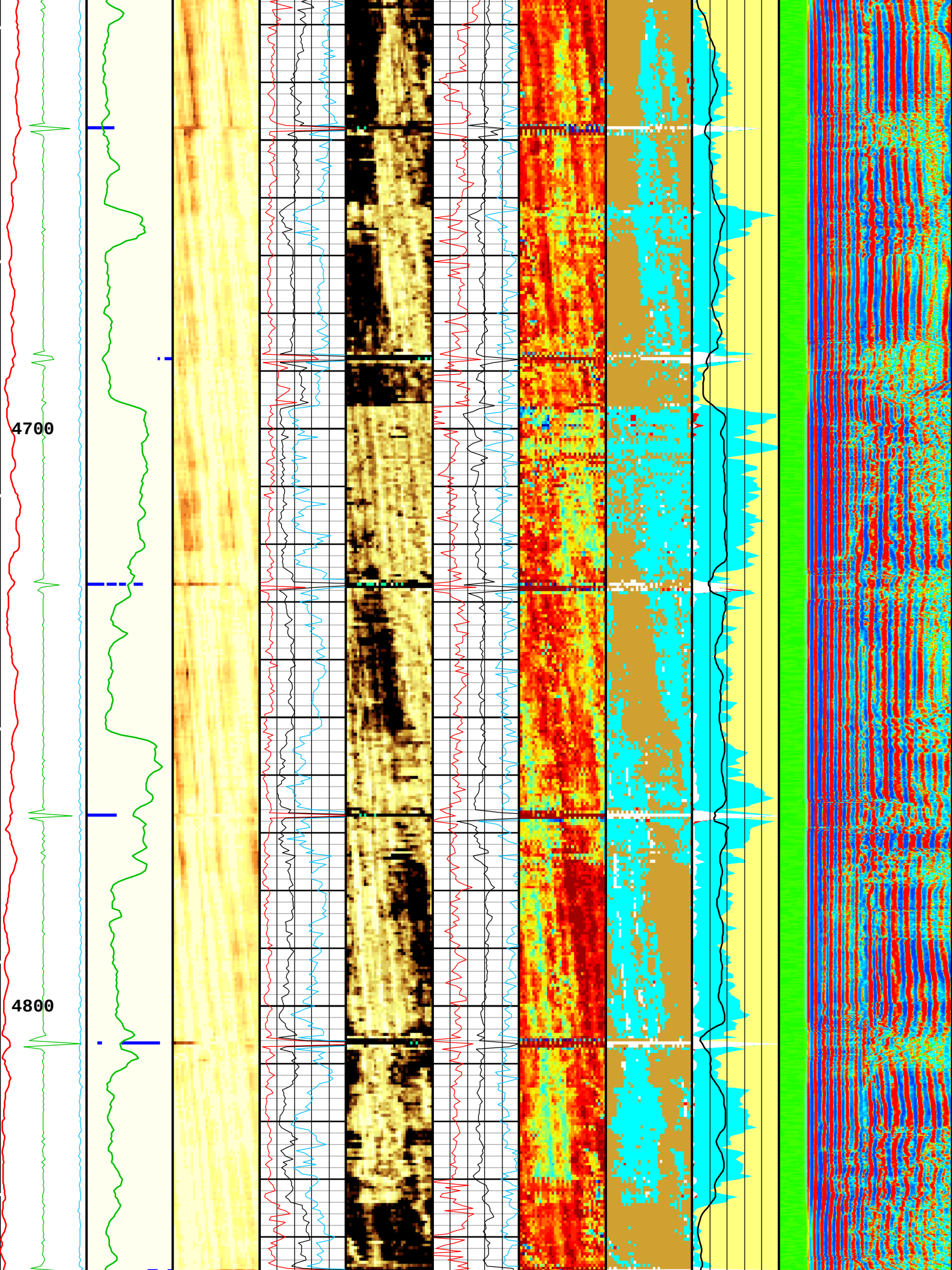
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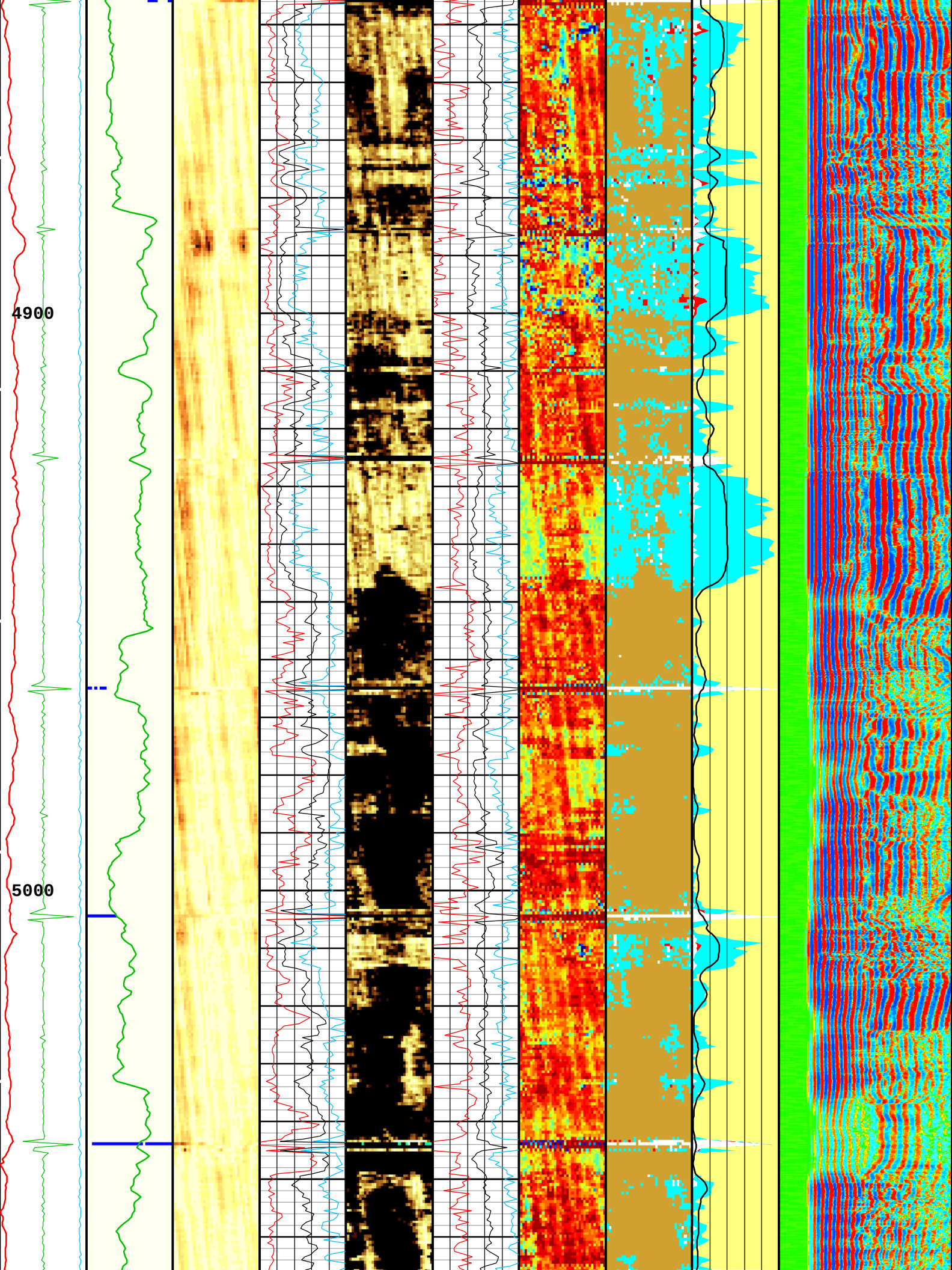
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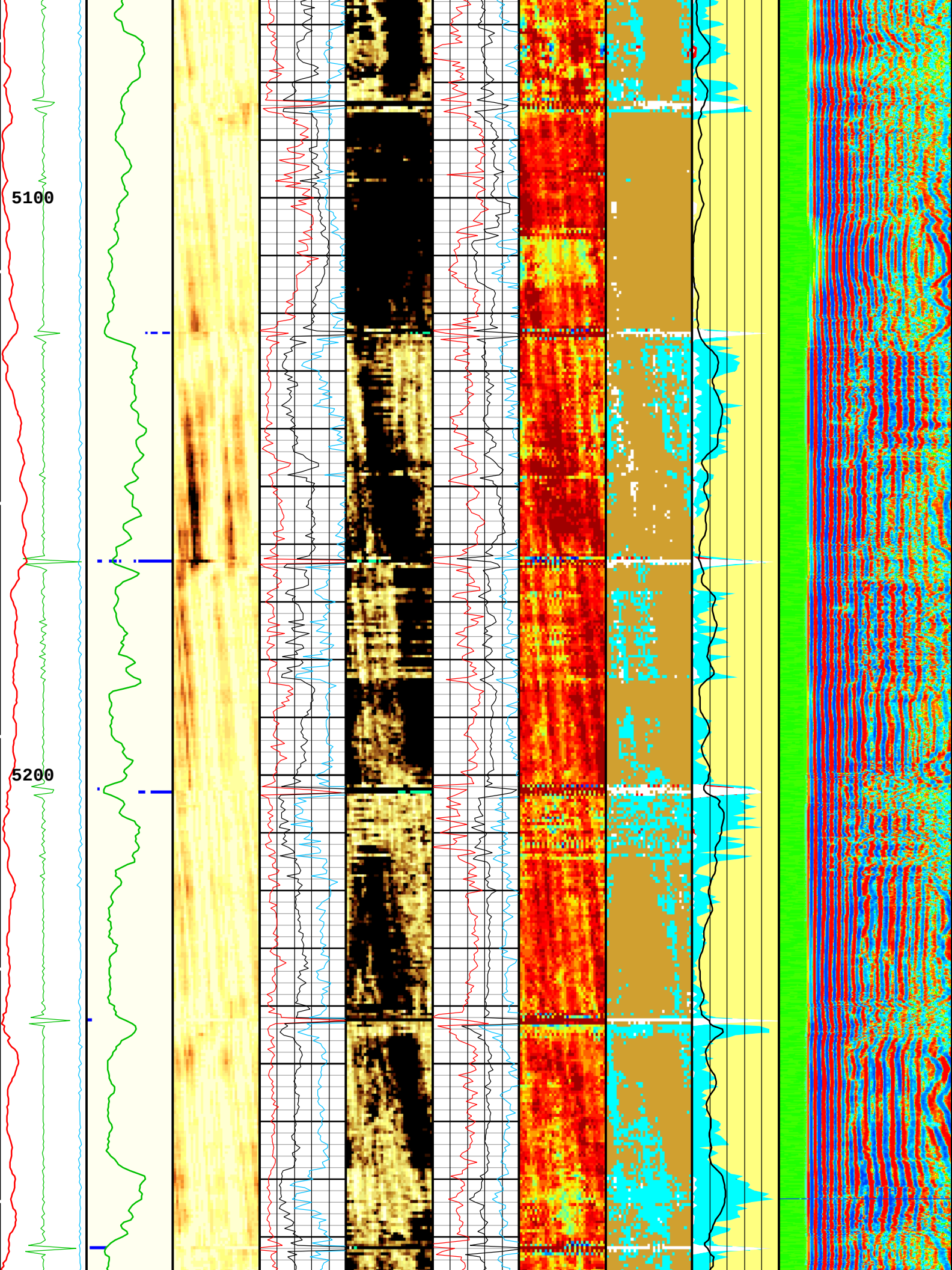
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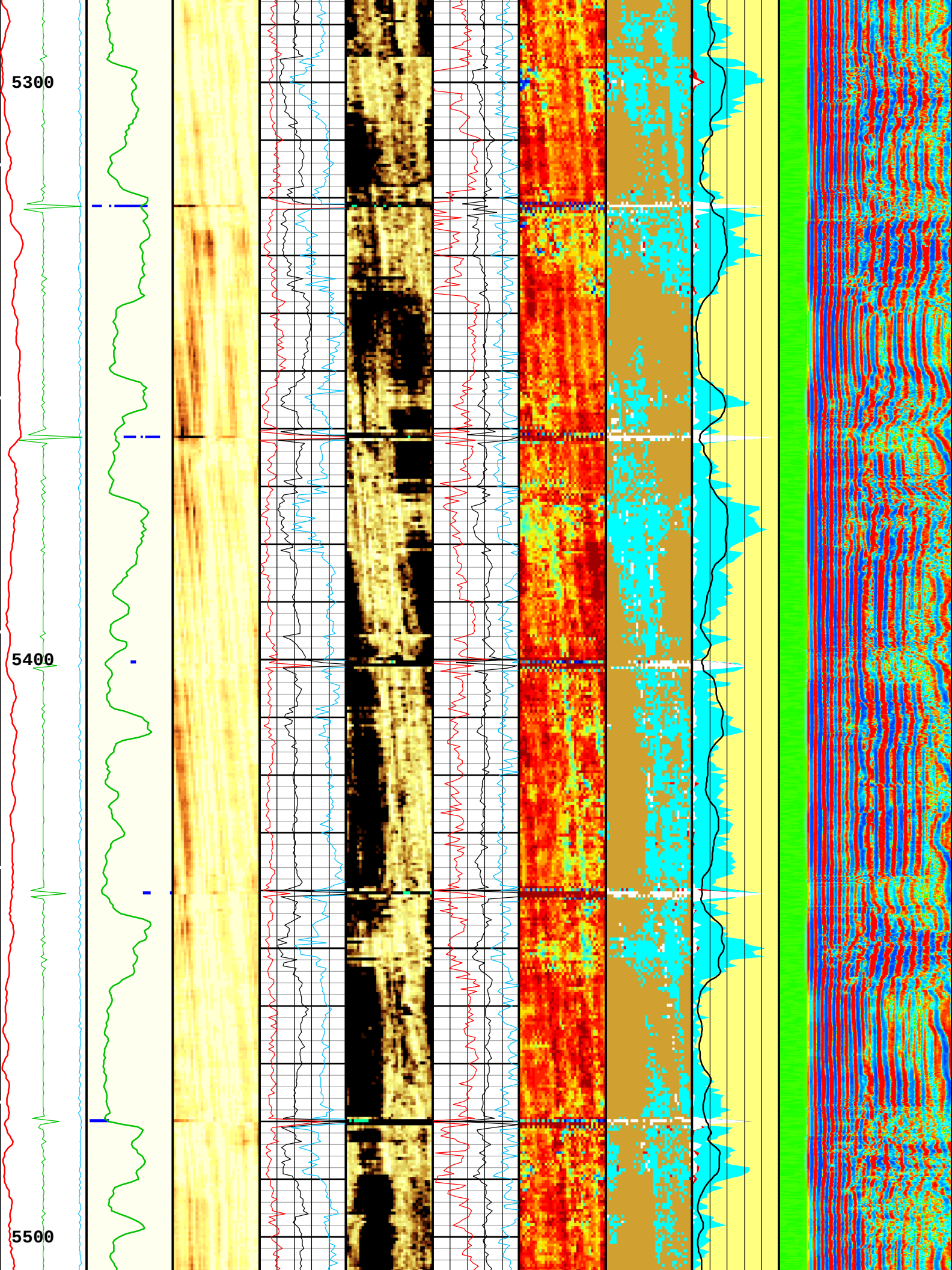
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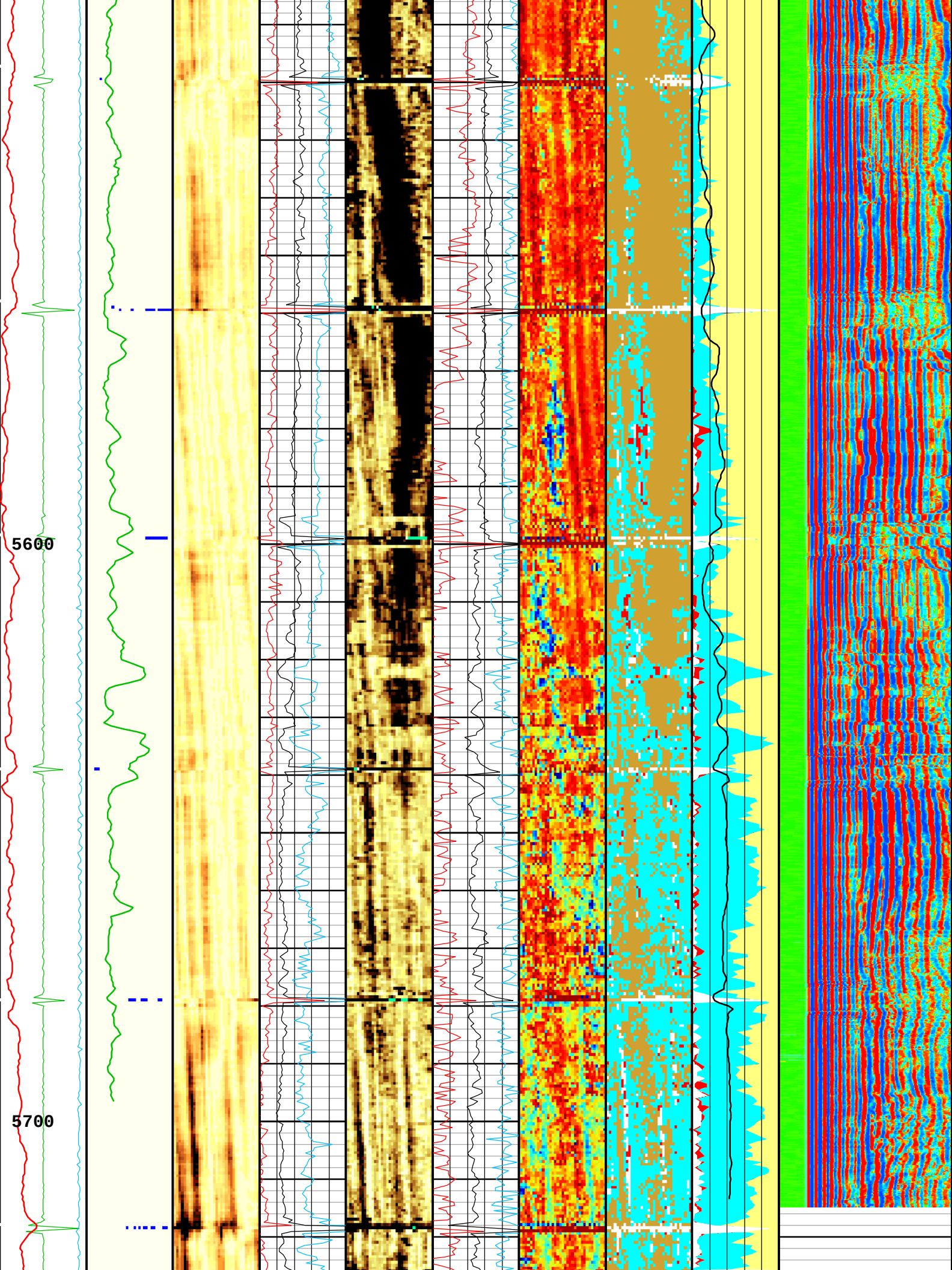
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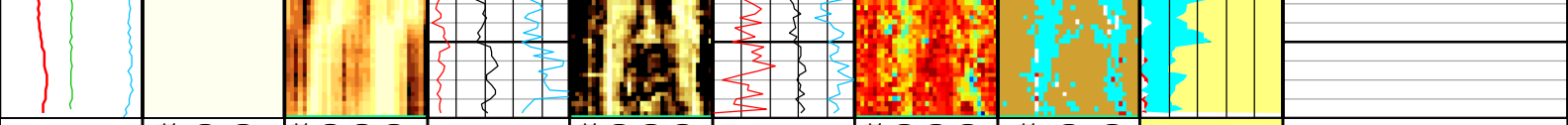


Casing Collar Locator Ultrasonic (CCLU) USIT-E
-20 in 20

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

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

Absent 1.500 3.500
Explicit Normalization
USIT - USIT Processing Flags (UFLG) USIT-E

USIT Processing Flags (UFLG[0]) USIT-E
1 5

Gamma Ray (ECGR) SGT-N
0 gAPI 150

Absent -4.799 -2.799 -0.800
Explicit Normalization
USIT - Amplitude of Wave (AWBK) USIT-E (dB)

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

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

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

Absent 1.000 2.250 3.500
Custom Normalization
USIT - Acoustic Impedance (AIBK) USIT-E (Mrayl)

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

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
40 dB/m 140

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
40 dB/m 140

Absent 48.000 78.000 108.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

SLG Solid Index

SLG Liquid Index

SLG Gas Index

SLG White Point Index

CBL Amplitude (CBL) DSLT-H
0 mV 100

Min Amplitude Max
Sonic VDL Curve DSLT-H
200 us 1200

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

Description: USI IBC SLG Format: Log ( IBC SLG VDLCBL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 07-Aug-2017 16:39:17

# Channel Processing Parameters

## Trip 3 Run 1: Parameters

| Parameter | Description | Tool | Value | Unit |
|---|---|---|---|---|
| AMSG | Auxiliary Minimum Sliding Gate | DSLT-H | 140 | us |
| ISSBAR | Barite Mud Presence Flag | Borehole | No | |
| BERJ | Bad Echo Rejection | USIT-E | On | |
| BHS | Borehole Status (Open or Cased Hole) | Borehole | Cased | |
| BILI | Bond Index Level for Zone Isolation | DSLT-H | 0.8 | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CASING_PRATIO | Casing Poisson Ratio | USIT-E | Standard Poisson Ratio | |
| CBLG | CBL Gate Width | DSLT-H | 45 | us |
| CBLO | Casing Bottom (Logger) | WLSESSION | 5871 | ft |
| CBRA | CBL LQC Reference Amplitude in Free Pipe | DSLT-H | 71 | mV |
| CDEN | Cement Density | USIT-E | 12.69 | lbm/gal |
| CDEN | Cement Density | SGT-N | 16.69 | lbm/gal |
| CMCF | CBL Cement Type Compensation Factor | DSLT-H | 1 | |
| CMTY(U-USIT_CEMT) | Cement Type | USIT-E | Light Cement | |
| DETE | Delta-T Detection | DSLT-H | E1 | |
| DFD | Drilling Fluid Density | Borehole | 8.34 | lbm/gal |
| DFT_CATEGORY | Drilling Fluid Type | Borehole | Water | |

| | | | | |
|---|---|---|---|---|
| DFT_CATEGORY | Drilling Fluid Type | Borehole | Water | |
| DFT_OIL | Drilling Fluid Oil Type | Borehole | Fresh Water | |
| DTMD | Borehole Fluid Slowness | Borehole | 203 | us/ft |
| FCF | CBL Fluid Compensation Factor | DSLT-H | 1 | |
| FD | Fluid Density | USIT-E | 9.43 | 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) | |
| GOBO_CURR | Good Bond in Arbitrary Cement | DSLT-H | 1.89 | mV |
| GR_MULTIPLIER | Gamma Ray Multiplier | SGT-N | 1 | |
| HEMA | Hematite Presence Flag | Borehole | No | |
| IBC_FRP_OFFSET | IBC Flexural Offset from Free Pipe | USIT-E | -29.29 | dB/m |
| FSOD | USIT IBC Fluid Slowness Fits Casing Outer Diameter | USIT-E | 0_OFF | |
| 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 | |
| MAHTR | Manual High Threshold Reference for first arrival detection | DSLT-H | 120 | |
| MATT_CURR | Maximum Attenuation in Arbitrary Cement | DSLT-H | 45.74 | dB/m |
| MCI | Minimum Cemented Interval for Isolation | DSLT-H | Depth Zoned | ft |
| MEAS_WLEN | Tcube Processing Window Length in Measurement Mode | USIT-E | 18.79 | us |
| MNHTR | Minimum High Threshold Reference for first arrival detection | DSLT-H | 100 | |
| MSA | Minimum Sonic Amplitude | DSLT-H | 0.76 | mV |
| MSA_CURR | Minimum Sonic Amplitude in Arbitrary Cement | DSLT-H | 0.76 | mV |
| MUD_N_FRP | Free Pipe Mud Normalization Factor | USIT-E | 1.2 | |
| MUD_N_THE | Theoretical Mud Normalization Factor | USIT-E | 1 | |
| NMSG | Near Minimum Sliding Gate | DSLT-H | 245 | us |
| NMXG | Near Maximum Sliding Gate | DSLT-H | 950 | us |
| NUMP | Number of Detection Passes | DSLT-H | 2 | |
| U-USIT_OCDI | Outer Casing Diameter | USIT-E | 0 | in |
| U-USIT_OCSH | Outer Casing Shoe | USIT-E | 0 | ft |
| U-USIT_OCWE | Outer Casing Weight | USIT-E | 0 | lbm/ft |
| 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 |
| SFAF | Sonic Formation Attenuation Factor | DSLT-H | 10.66 | dB/m |
| SGAD | Sliding Gate Status | DSLT-H | Off | |
| SGCL | Sliding Gate Closing Delta-T | DSLT-H | 130 | us/ft |
| SGCW | Sliding Gate Closing Width | DSLT-H | 25 | us |
| SGDT | Sliding Gate Delta-T | DSLT-H | 57 | us/ft |
| SGW | Sliding Gate Width | DSLT-H | 110 | us |
| SLEV | Signal Level for AGC | DSLT-H | 5000 | mV |
| SOGR | Standoff Distance of the Gamma Ray Tool | SGT-N | 0 | in |
| TCUB | T^3 Processing Level | USIT-E | Loop | |
| THDH | Maximum Search Thickness (percentage of nominal) | USIT-E | 130 | % |
| THDL | Minimum Search Thickness (percentage of nominal) | USIT-E | 70 | % |
| TPOS | Tool Position: Centered or Eccentered | SGT-N | Eccentered | |
| U-USIT_DFSZ | Drilling Fluid Specific Acoustic Impedance | USIT-E | 1.69 | Mrayl |
| U-USIT_UFAO | SIT Flexural Attenuation Offset | USIT-E | -29.8 | dB/m |
| UFGDE | Fiberglass Density | USIT-E | 16.27 | lbm/gal |

| | | | | |
|---|---|---|---|---|
| UFGDE | Fiberglass Density | USIT-E | 16.27 | lbm/gal |
| UFGPS | Fiberglass Processing Selection | USIT-E | No | |
| UFGVL | Fiberglass Velocity | USIT-E | 9678.48 | ft/s |
| U-USIT_UIAP | IBC Answer Product Enabled | USIT-E | SolidLiquidGasMap | |
| THDP | Thickness Detection Policy | USIT-E | Fundamental | |
| VCAS | Ultrasonic Transversal Velocity in Casing | USIT-E | 51.4 | us/ft |
| VDLG | VDL Manual Gain | DSLT-H | 5 | |
| ZCAS | Acoustic Impedance of Casing | USIT-E | 46.25 | Mrayl |
| ZCMT | Acoustic Impedance of Cement | DSLT-H | 6.8 | Mrayl |
| ZCMT_NEAT | Acoustic Impedance of Cement in Neat Cement | DSLT-H | 6.8 | Mrayl |
| ZINI | Initial Estimate of Cement Impedance | USIT-E | -1 | Mrayl |
| ZMUD | Acoustic Impedance of Mud | Borehole | 1.5 | 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 | 12.25 | 0 | 2489 |
| BS | 8.5 | 2489 | 5738 |
| MCI | 14.81 | 0 | 2489 |
| MCI | 4.75 | 2489 | 5738 |

All depth are actual.

# Tool Control Parameters

## Trip 3 Run 1: Parameters

| Parameter | Description | Tool | Value | Unit |
|---|---|---|---|---|
| AGMN | Minimum Gain of Cartridge | USIT-E | -12 | dB |
| AGMX | Maximum Gain of Cartridge | USIT-E | 18 | dB |
| DDEL | Digitizing Delay | DSLT-H | 0 | us |
| 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 |
| MODE | DSLT Acquisition Mode | DSLT-H | CBL | |
| RATE | DSLT Firing Rate | DSLT-H | 15 Hz | |
| DTFS | DSLT Telemetry Frame Size | DSLT-H | 536 | |
| DWCO | Digitizer Word Count | DSLT-H | 250 | |
| EMXV | EMEX Voltage | USIT-E | 40 | V |
| HRES | Horizontal Resolution | USIT-E | 10 deg | |
| MOTOR_PROTECT | Motor Protection | USIT-E | On | |
| SDTH | Switch Down Threshold | DSLT-H | 20000 | |
| SGAI | Selectable Acquisition Gain | DSLT-H | x1 | |
| SUTH | Switch Up Threshold | DSLT-H | 1000 | |
| TMUC | Type of Mud | USIT-E | BRI | |
| UACLV_PERM | Ultrasonic ACLV Permanent | USIT-E | No | |
| U-USIT_UFWB | Far Receiver Window Begin Time | USIT-E | 137 | us |
| U-USIT_UFWE | Far Receiver Window End Time | USIT-E | 177 | us |
| ULOG | Logging Objective | USIT-E | MEASUREMENT | |
| UMFR | Modulation Frequency | USIT-E | 333333 | Hz |
| 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 | 500000 | Hz |
| UPAT | USIT Emission Pattern | USIT-E | Pattern 500 KHz | |

| | | | | |
|---|---|---|---|---|
| UWKM | USIT Working Mode | USIT-E | 10 deg at 6.0 in LF | |
| USIT_DEPTHLOG | Starting Depth Log for Ultrasonics | USIT-E | 5742 | ft |
| 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 | 33.1 | us |
| WINE | Window End Time | USIT-E | 73.1 | us |
| WMOD | Waveform Firing Mode | DSLT-H | Full | |

# Trip 3 Run 1

## IBC Goodwin Compressed

### Pass Summary

| Run Name | Pass Objective | Direction | Top | Bottom | Start | Stop | DSC Mode | Depth Shift | Include Parallel Data |
|---|---|---|---|---|---|---|---|---|---|
| Trip 3 Run 1 | Log[4]:Up | Up | 39.35 ft | 5738.87 ft | 04-Aug-2017 12:47:11 PM | 04-Aug-2017 3:10:50 PM | ON | 1.00 ft | Yes |

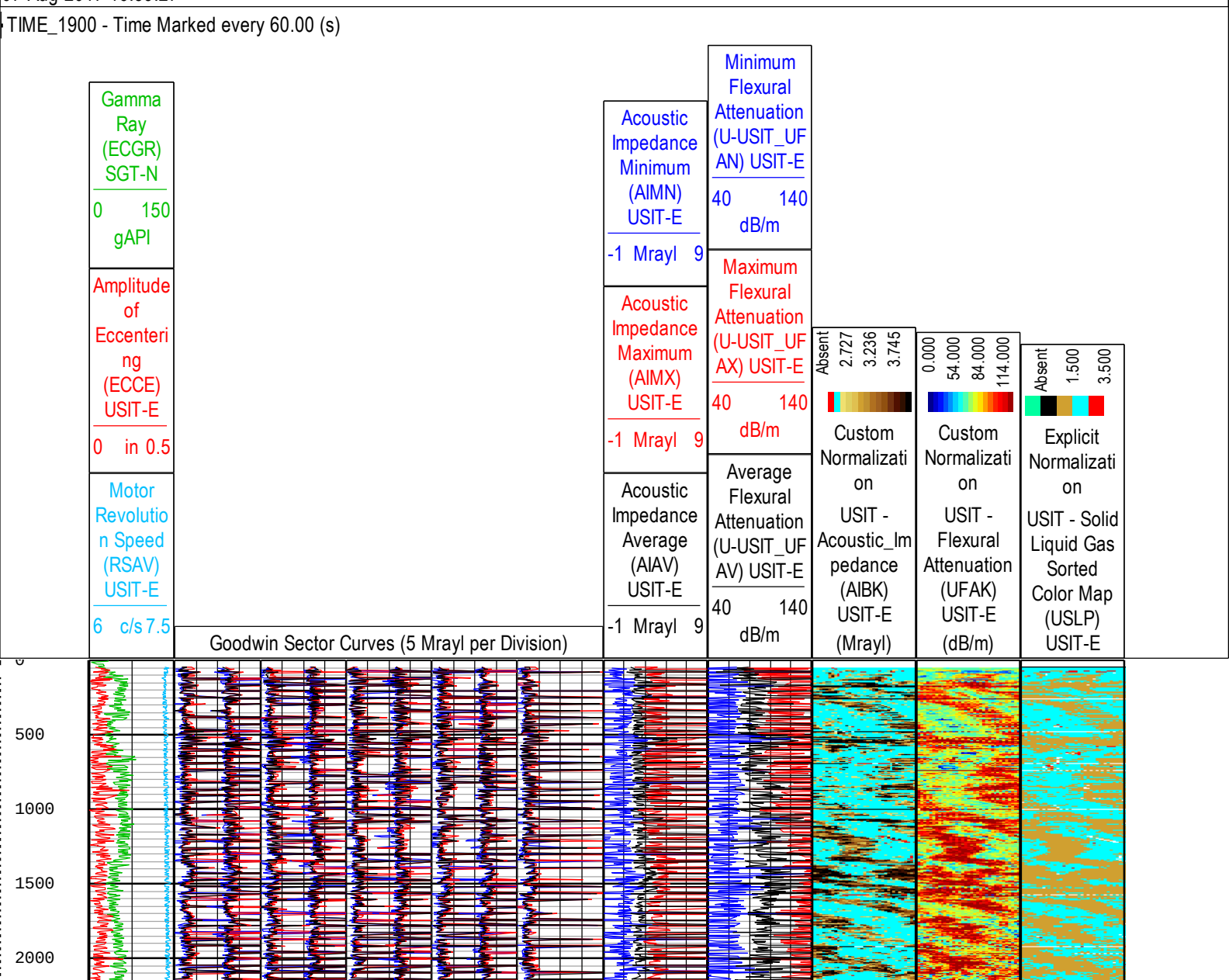
All depths are referenced to toolstring zero

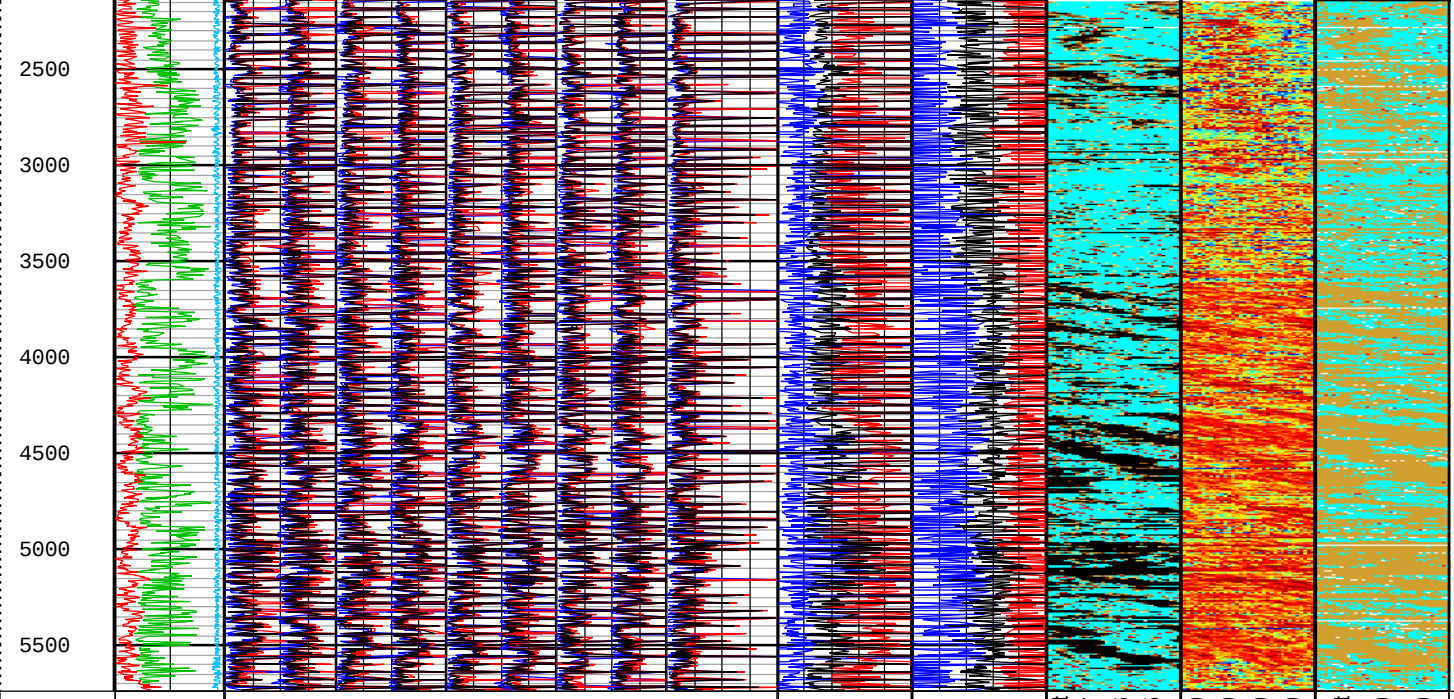
### Log

Company:Mississippi Power Company Well:MPC 26-5 #1

Trip 3 Run 1: Log[4]:Up:S010

Description: USI Goodwin Format: Log ( IBC Goodwin ) Index Scale: 0.1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 07-Aug-2017 16:39:27






Gamma Ray (ECGR) SGT-N
0 150 gAPI

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

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

Goodwin Sector Curves (5 Mrayl per Division)

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

Acoustic Impedance Maximum (AIMX) USIT-E
-1 Mrayl 9

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

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

Maximum Flexural Attenuation (U-USIT_UFAX) USIT-E
40 140 dB/m

Average Flexural Attenuation (U-USIT_UFAV) USIT-E
40 140 dB/m

Absent 2.727 3.236 3.745
Custom Normalization
USIT - Acoustic_Impedance (AIBK) USIT-E (Mrayl)

0.000 54.000 84.000 114.000
Custom Normalization
USIT - Flexural Attenuation (UFAK) USIT-E (dB/m)

Absent 1.500 3.500
Explicit Normalization
USIT - Solid Liquid Gas Sorted Color Map (USLP) USIT-E

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: 07-Aug-2017 16:39:27

XYZ

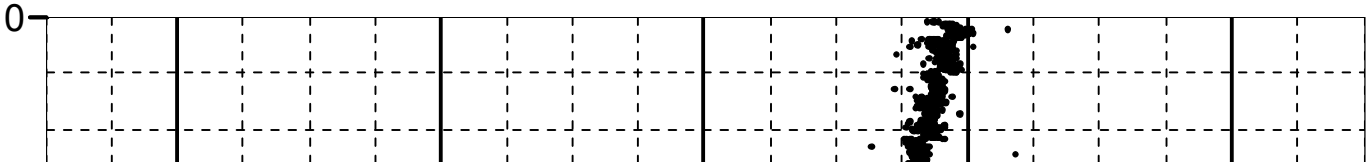
Company:Mississippi Power Company Well:MPC 26-5 #1
Trip 3 Run 1: Log[4]:Up:S010

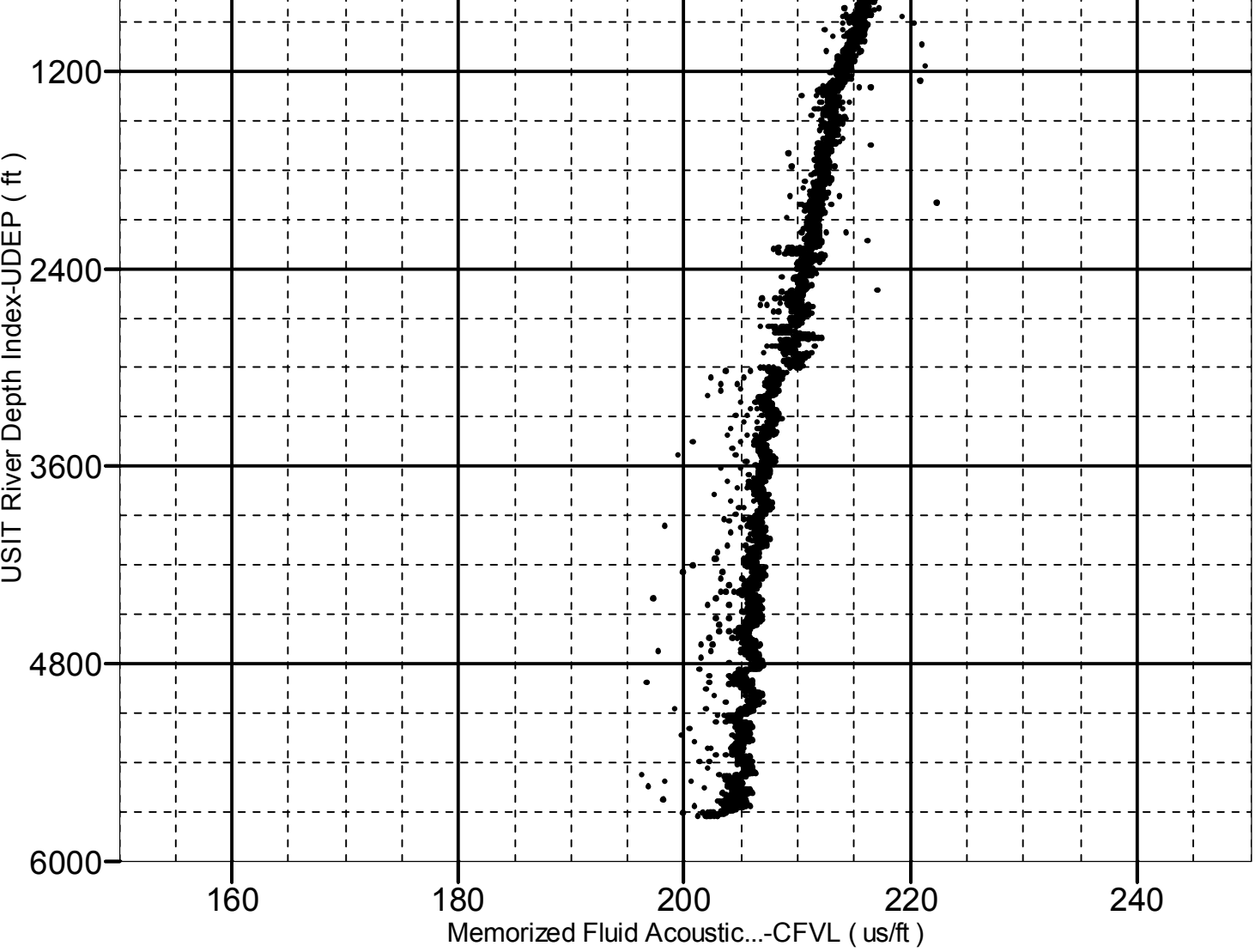
# Fluid Acoustic Slowness vs Depth

## 2D Cross Plot

Index Range: From 5738.00 to 39.00 ft

● CFVL-UDEP





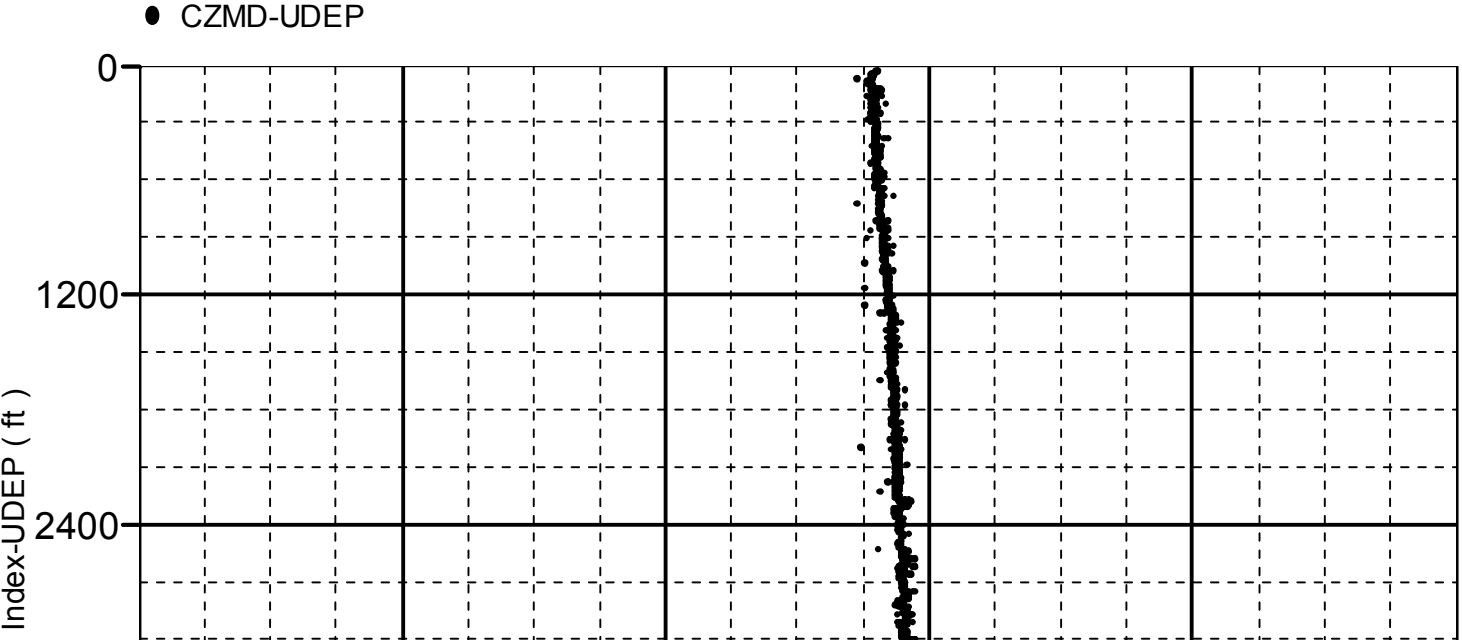

XYZ

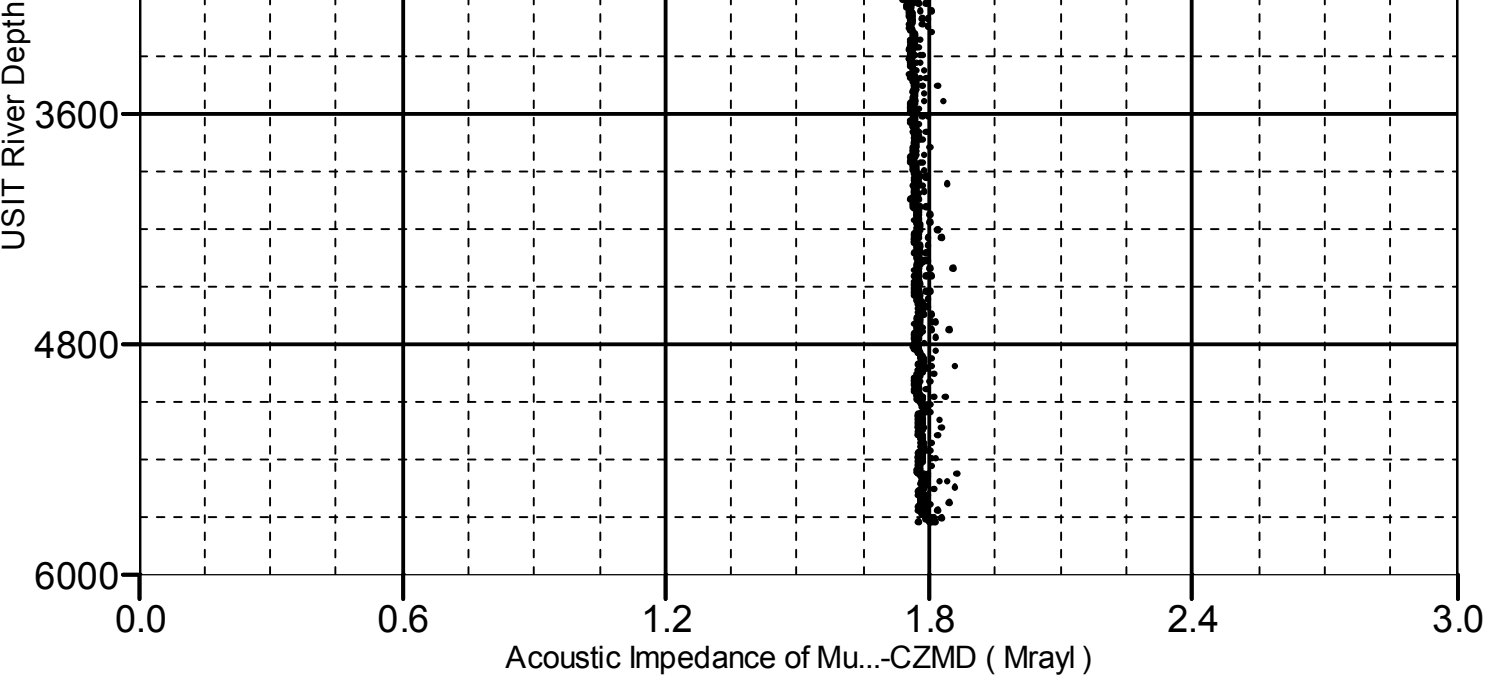
Company:Mississippi Power Company Well:MPC 26-5 #1
Trip 3 Run 1: Log[4]:Up:S010

# Acoustic Impedance of Mud vs Depth

## 2D Cross Plot

Index Range: From 5738.00 to 39.00 ft




USIT River Depth
3600
4800
6000
0.0
0.6
1.2
1.8
2.4
3.0
Acoustic Impedance of Mu...-CZMD ( Mrayl )

| | |
|---|---|
| Company: | Mississippi Power Company |
| Well: | MPC 26-5 #1 |
| Field: | Wildcat |
| County: | Kemper |
| State: | Mississippi |

Schlumberger

***500 psi*** Isolation Scanner - CBL VDL

Cement Evaluation

Gamma Ray - CCL Log