

Company: Caerus Piceance LLC

Well: Puckett SWD H2-797

Field: Wildcat

County: Garfield State: Colorado

Slim Cement Mapping Tool

CBL-VDL

|                         |                     |                           |                  |
|-------------------------|---------------------|---------------------------|------------------|
| County:                 | Garfield            |                           |                  |
| Field:                  | Wildcat             |                           |                  |
| Location:               | Sec. 2, T7S, R97W   |                           |                  |
| Well:                   | Puckett SWD H2-797  |                           |                  |
| Company:                | Caerus Piceance LLC |                           |                  |
|                         |                     | Location:                 |                  |
|                         |                     | Sec. 2, T7S, R97W         | Elev.:           |
|                         |                     | SHL: 2229' FNL x 625' FEL | K.B. 8509.00 ft  |
|                         |                     |                           | G.L. 8479.00 ft  |
|                         |                     |                           | D.F. 8508.00 ft  |
| Permanent Datum:        | Ground Level        | Elev.:                    | 8479.00 f        |
| Log Measured From:      | Kelly Bushing       | 30.00 ft                  | above Perm.Datum |
| Drilling Measured From: | Kelly Bushing       |                           |                  |
| API Serial No.          | Section:            | Township:                 | Range:           |
| 05-045-22631-00         | 2                   | 7S                        | 97W              |

|                           |               |                |  |
|---------------------------|---------------|----------------|--|
| Logging Date              | 21-Jul-2015   |                |  |
| Run Number                | Run 1         |                |  |
| Depth Driller             | 6300.00 ft    |                |  |
| Schlumberger Depth        | 6300.00 ft    |                |  |
| Bottom Log Interval       | 6249.00 ft    |                |  |
| Top Log Interval          | 500.00 ft     |                |  |
| Casing Fluid Type         | 3% KCl        |                |  |
| Salinity                  |               |                |  |
| Density                   | 8.7 lbm/gal   |                |  |
| Fluid Level               | 0.00 ft       |                |  |
| BIT/CASING/TUBING STRING  |               |                |  |
| Bit Size                  | 8.75 in       |                |  |
| From                      | 2493.00 ft    |                |  |
| To                        | 6300.00 ft    |                |  |
| Casing/Tubing Size        | 5.5 in        |                |  |
| Weight                    | 17 lbm/ft     |                |  |
| Grade                     | N80           |                |  |
| From                      | 0.00 ft       |                |  |
| To                        | 6300.00 ft    |                |  |
| Max Recorded Temperatures |               |                |  |
| Logger on Bottom          |               |                |  |
| Unit Number               | Time          |                |  |
| 9115                      | 21-Jul-2015   | 21:05:00       |  |
| Recorded By               | Location:     | Ft. Morgan, CO |  |
| Aleksei Bekhterev         |               |                |  |
| Witnessed By              | Natalie Naeve |                |  |

Disclaimer

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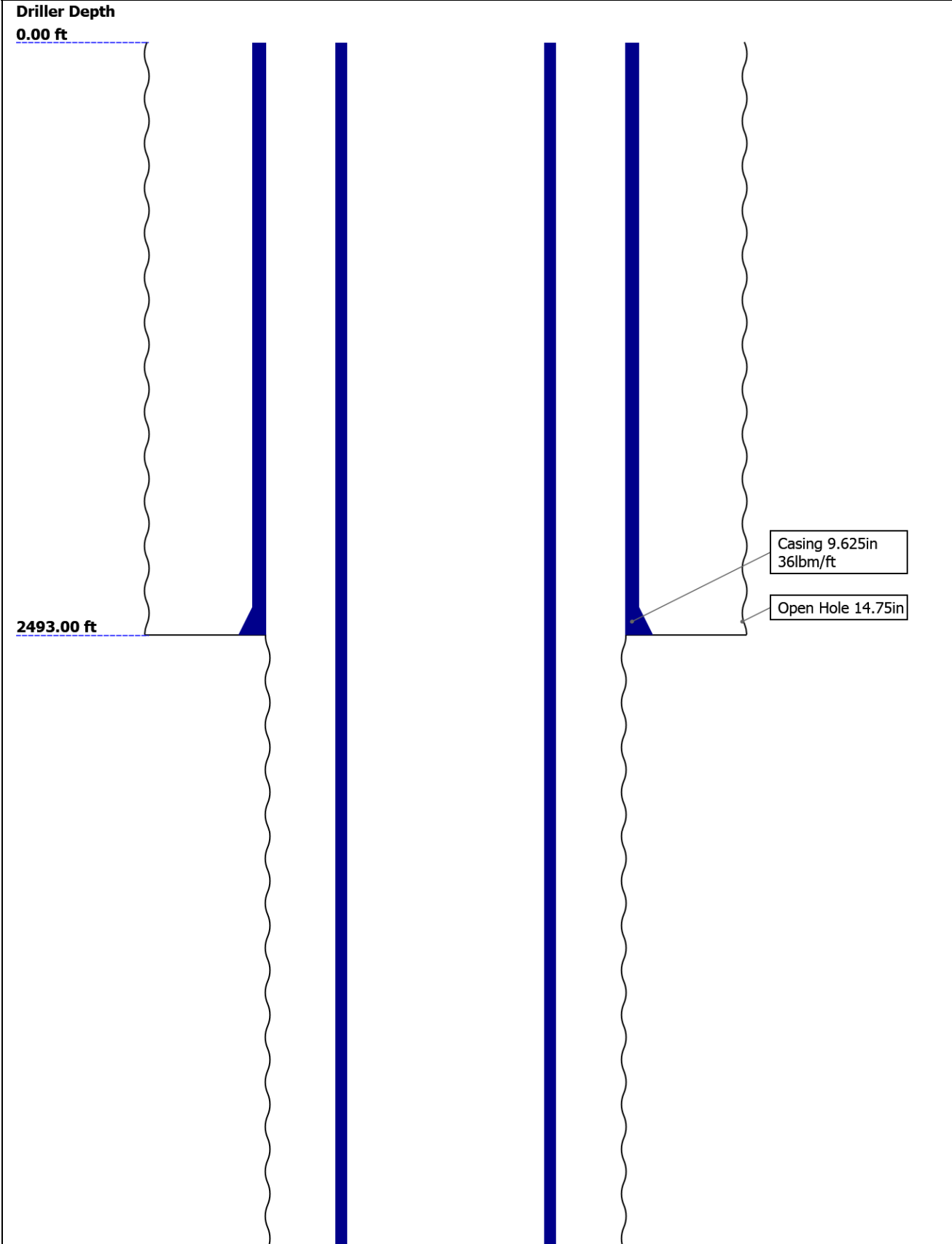
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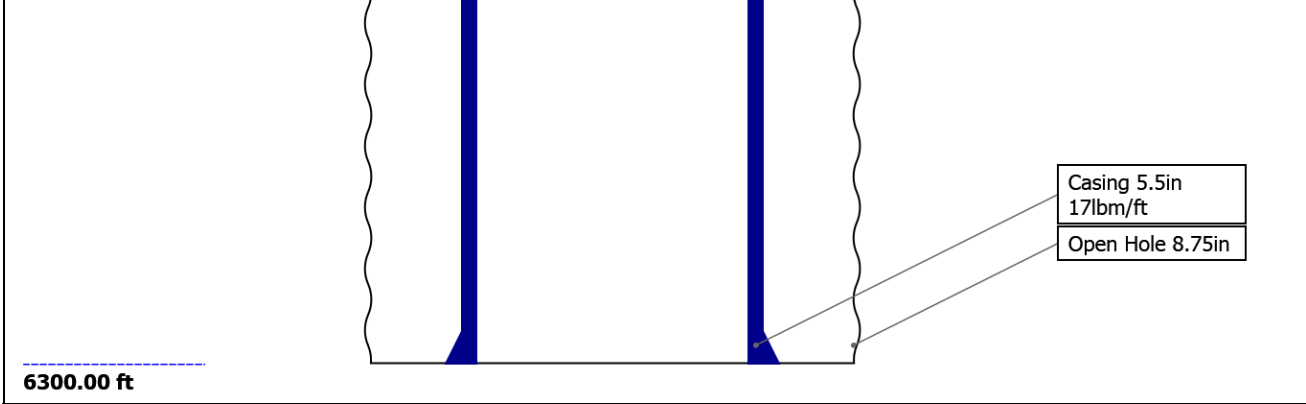
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Well Sketch





Borehole Size/Casing/Tubing Record

|                       |       |       |  |  |  |  |
|-----------------------|-------|-------|--|--|--|--|
| Bit                   |       |       |  |  |  |  |
| Bit Size ( in )       | 14.75 | 8.75  |  |  |  |  |
| Top Driller ( ft )    | 0     | 2493  |  |  |  |  |
| Top Logger ( ft )     | 0     | 2493  |  |  |  |  |
| Bottom Driller ( ft ) | 2493  | 6300  |  |  |  |  |
| Bottom Logger ( ft )  | 2493  | 6300  |  |  |  |  |
| Casing                |       |       |  |  |  |  |
| Size ( in )           | 9.625 | 5.5   |  |  |  |  |
| Weight ( lbm/ft )     | 36    | 17    |  |  |  |  |
| Inner Diameter ( in ) | 8.921 | 4.892 |  |  |  |  |
| Grade                 | J55   | N80   |  |  |  |  |
| Top Driller ( ft )    | 0     | 0     |  |  |  |  |
| Top Logger ( ft )     | 0     | 0     |  |  |  |  |
| Bottom Driller ( ft ) | 2493  | 6300  |  |  |  |  |
| Bottom Logger ( ft )  | 2493  | 6300  |  |  |  |  |

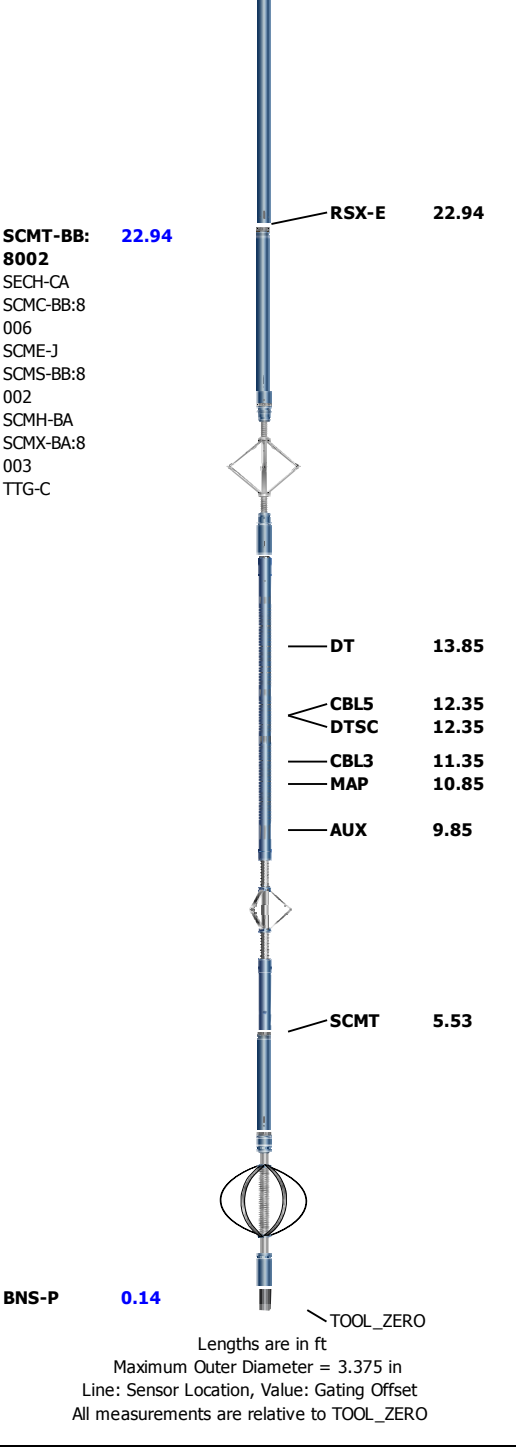
Operational Run Summary

|                                  |                   |  |  |  |  |  |
|----------------------------------|-------------------|--|--|--|--|--|
| Parameter ( unit )               | Run 1             |  |  |  |  |  |
| Date Log Started                 | 21-Jul-2015       |  |  |  |  |  |
| Time Log Started                 | 18:47:04          |  |  |  |  |  |
| Date Log Finished                | 22-Jul-2015       |  |  |  |  |  |
| Time Log Finished                | 01:04:49          |  |  |  |  |  |
|                                  |                   |  |  |  |  |  |
| Top Log Interval ( ft )          | 500.00            |  |  |  |  |  |
| Bottom Log Interval ( ft )       | 6249.00           |  |  |  |  |  |
|                                  |                   |  |  |  |  |  |
| Total Depth ( ft )               | 6300.00           |  |  |  |  |  |
| Max Hole Deviation ( deg )       | 0.00              |  |  |  |  |  |
| Azimuth of Max Deviation ( deg ) | 0.00              |  |  |  |  |  |
| Bit Size ( in )                  | 8.750             |  |  |  |  |  |
|                                  |                   |  |  |  |  |  |
| Logging Unit Number              | 9115              |  |  |  |  |  |
| Logging Unit Location            | Ft. Morgan, CO    |  |  |  |  |  |
| Recorded By                      | Aleksei Bekhterev |  |  |  |  |  |

| Borehole Fluids                    |             |  |  |  |  |  |
|------------------------------------|-------------|--|--|--|--|--|
| Parameter( unit )                  | Run 1       |  |  |  |  |  |
| Fluid Type                         | Water       |  |  |  |  |  |
| Fluid Name                         | 3% KCl      |  |  |  |  |  |
| Max Recorded Temperatures ( degF ) | 168.1       |  |  |  |  |  |
| Salinity ( ppm )                   | 0           |  |  |  |  |  |
| Density ( lbm/gal )                | 8.7         |  |  |  |  |  |
| Date Logger on Bottom              | 21-Jul-2015 |  |  |  |  |  |
| Time Logger on Bottom              | 21:05:00    |  |  |  |  |  |
| Total Solid ( % )                  |             |  |  |  |  |  |
| High Gravity Solids ( % )          |             |  |  |  |  |  |

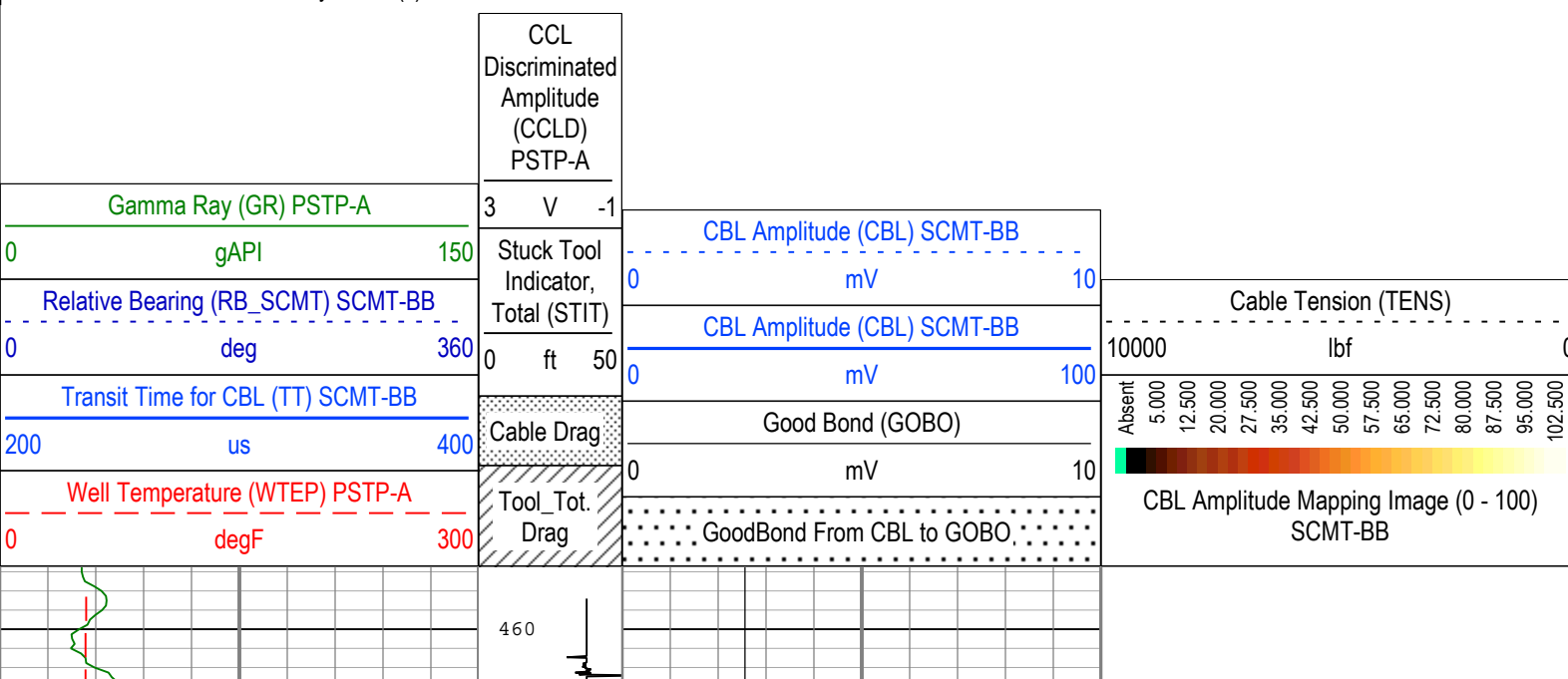
|                   |                |  |
|-------------------|----------------|--|
| Run 1: Toolstring | Run 1: Remarks |  |
|-------------------|----------------|--|

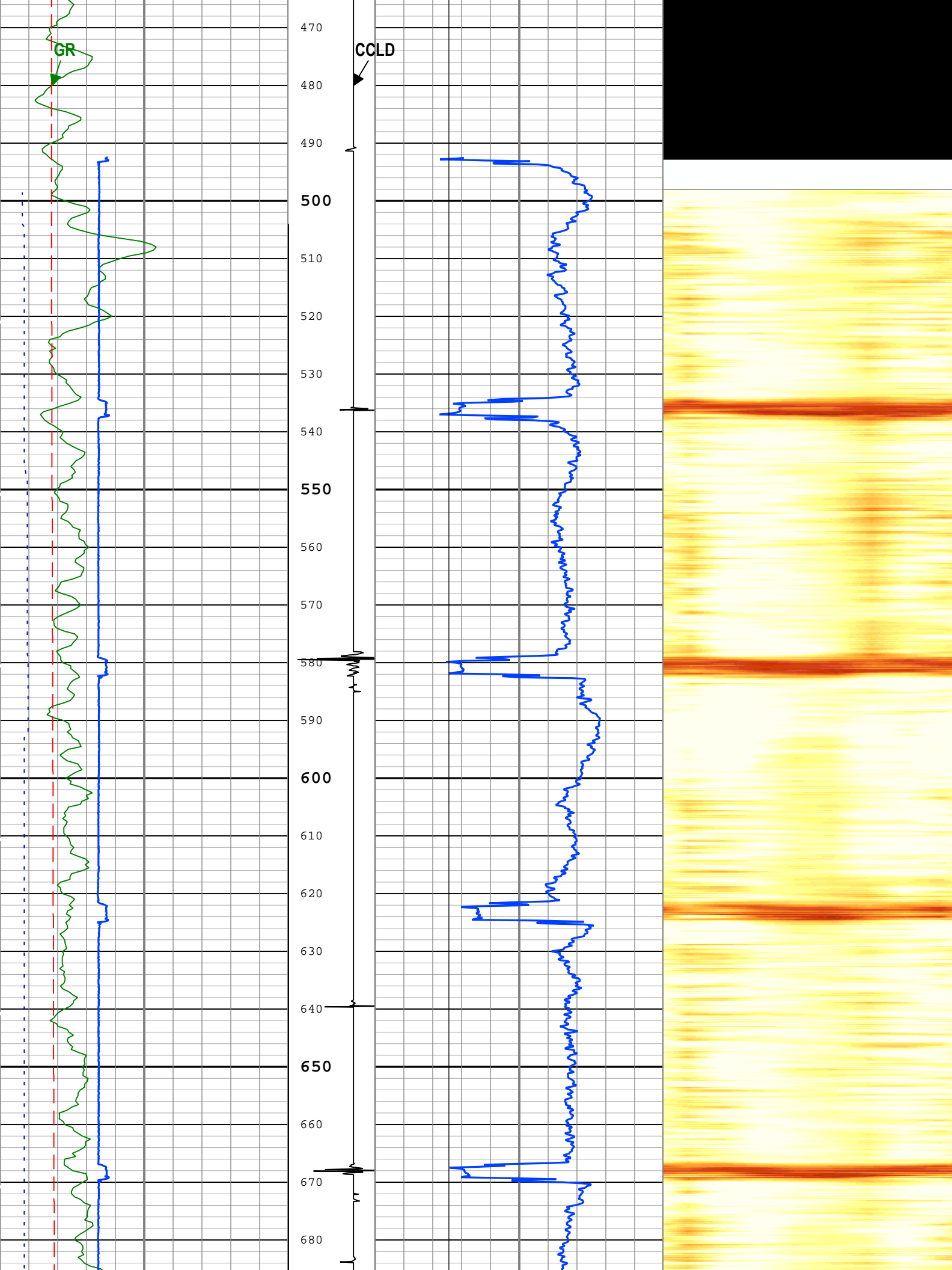
| Run 1: Toolstring |               |                  |               | Run 1: Remarks   |
|-------------------|---------------|------------------|---------------|--|
| <b>Equip name</b> | <b>Length</b> | <b>MP name</b>   | <b>Offset</b> | Toolstring ran as per tool sketch  |
| LEH-QT            | 58.3          |                  |               | This is first run in hole  |
| LEH-QT            |               |                  |               | Main and repeat passes are correlated to downlog as per client's request |
| AH-63             | 55.38         |                  |               | RST ran in Sigma mode  |
| AH-79             | 55.06         |                  |               | Matrix: Sandstone, 2.68 g/cc   |
| PSTP-A:19         | 54.23         | GR               | 50.53         | Tagged float collar at 6249 ft   |
| 63                |               | PSTC             | 50.23         | Repeat pass is done with 0 psi   |
| PSC-A             |               | PSTC Tool String | 0.00          | Main pass is done with 2200 psi  |
| PSTC-A            |               | Bottom           |               | Log stopped at 500 ft as per client's request                            |
| PBMS-A:19         |               | Temperature      | 47.44         | Crew: Jay Musgrave, Jake Jump  |
| 63                |               | Sapphire         | 47.33         | Thank you for choosing Schlumberger Wireline!                            |
| Sapphire 10       |               | Pressure         |               |  |
| kPSI              |               | CCL              | 46.72         |  |
|                   |               | PBMS             | 45.97         |  |
| RST-C:282         | 45.97         |                  |               |  |
| RSCH-A            |               |                  |               |  |
| RSC-E:381         |               |                  |               |  |
| RSS-A:253         |               |                  |               |  |
| MNTR-F:1          |               |                  |               |  |
| RSXH-A:27         |               |                  |               |  |
| 5                 |               |                  |               |  |
| RSX-E:282         |               |                  |               |  |
|                   |               | RSC-E            | 39.61         |  |
|                   |               |                  |               |  |
|                   |               | Far              | 36.85         |  |
|                   |               | Near             | 36.35         |  |

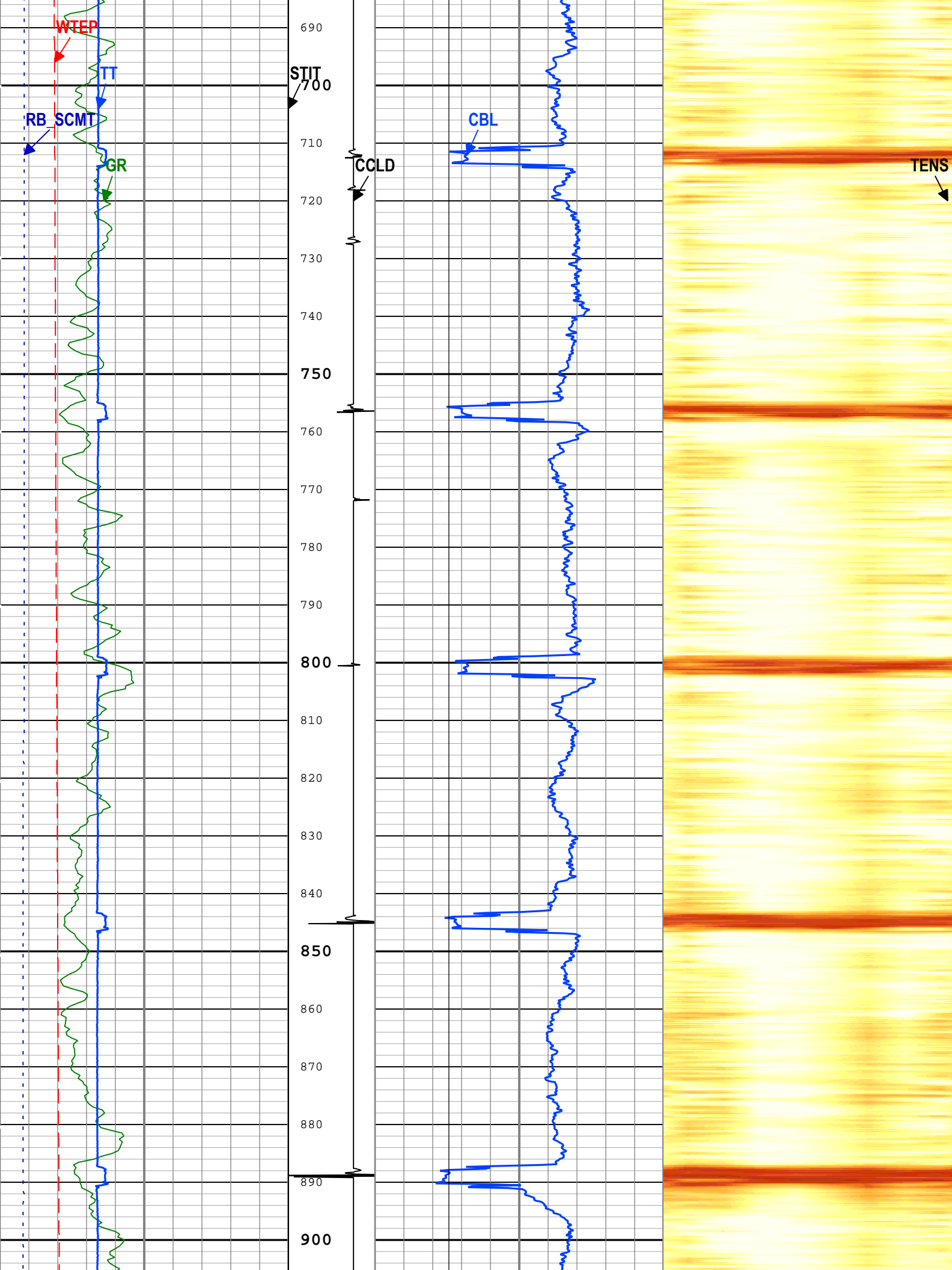


## Depth Summary

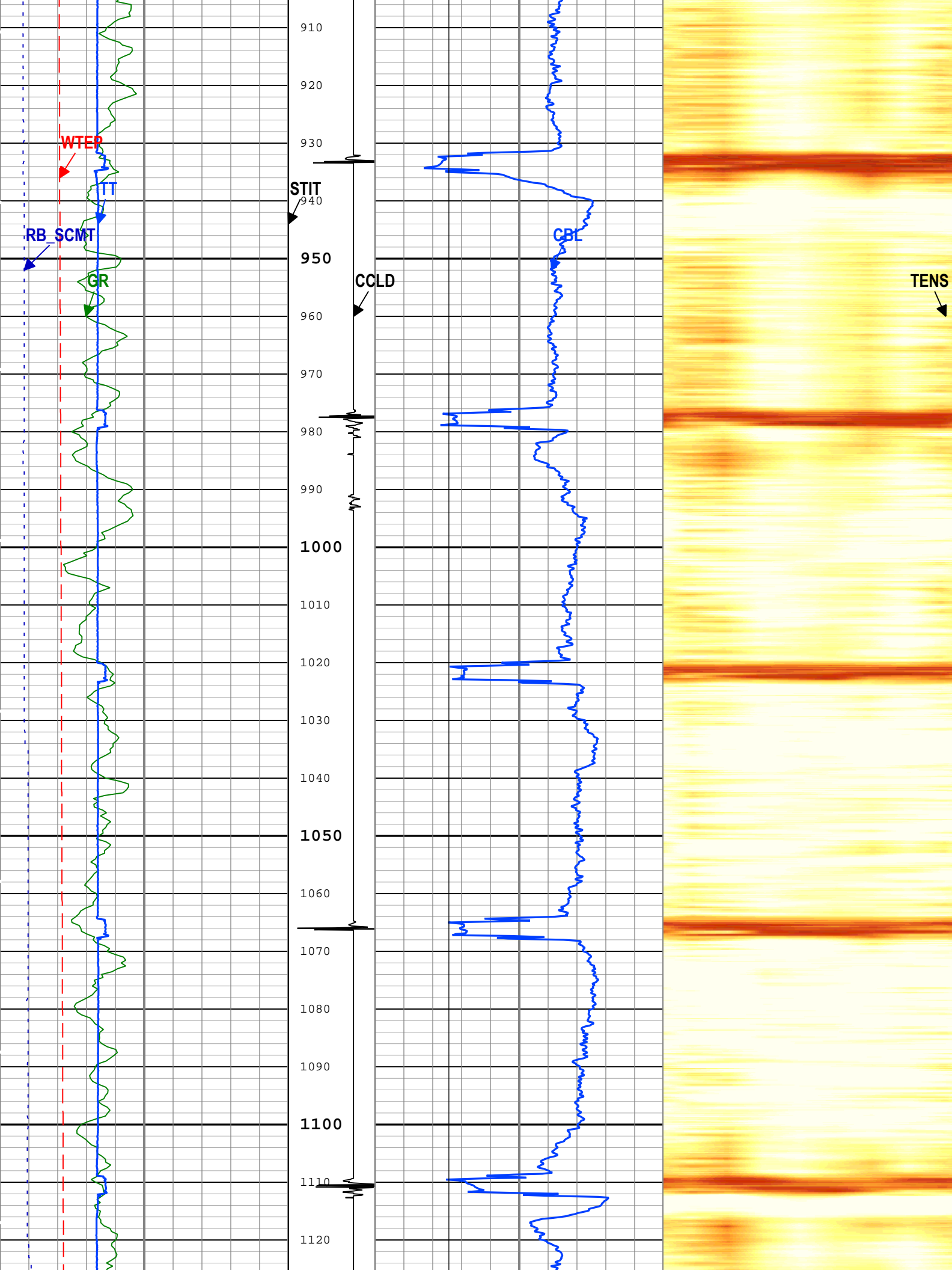
|                          |          |  |  |
|--------------------------|----------|--|--|
| Run 1                    |          |  |  |
| Depth Measuring Device   |          |  |  |
| Type                     | IDW-B    |  |  |
| Serial Number            |          |  |  |
| Calibration Date         |          |  |  |
| Calibrator Serial Number |          |  |  |
| Calibration Cable Type   |          |  |  |
| Wheel Correction 1       | 0        |  |  |
| Wheel Correction 2       | 0        |  |  |
| Tension Device           |          |  |  |
| Type                     | CMTD-B/A |  |  |
| Serial Number            |          |  |  |
| Calibration Date         |          |  |  |

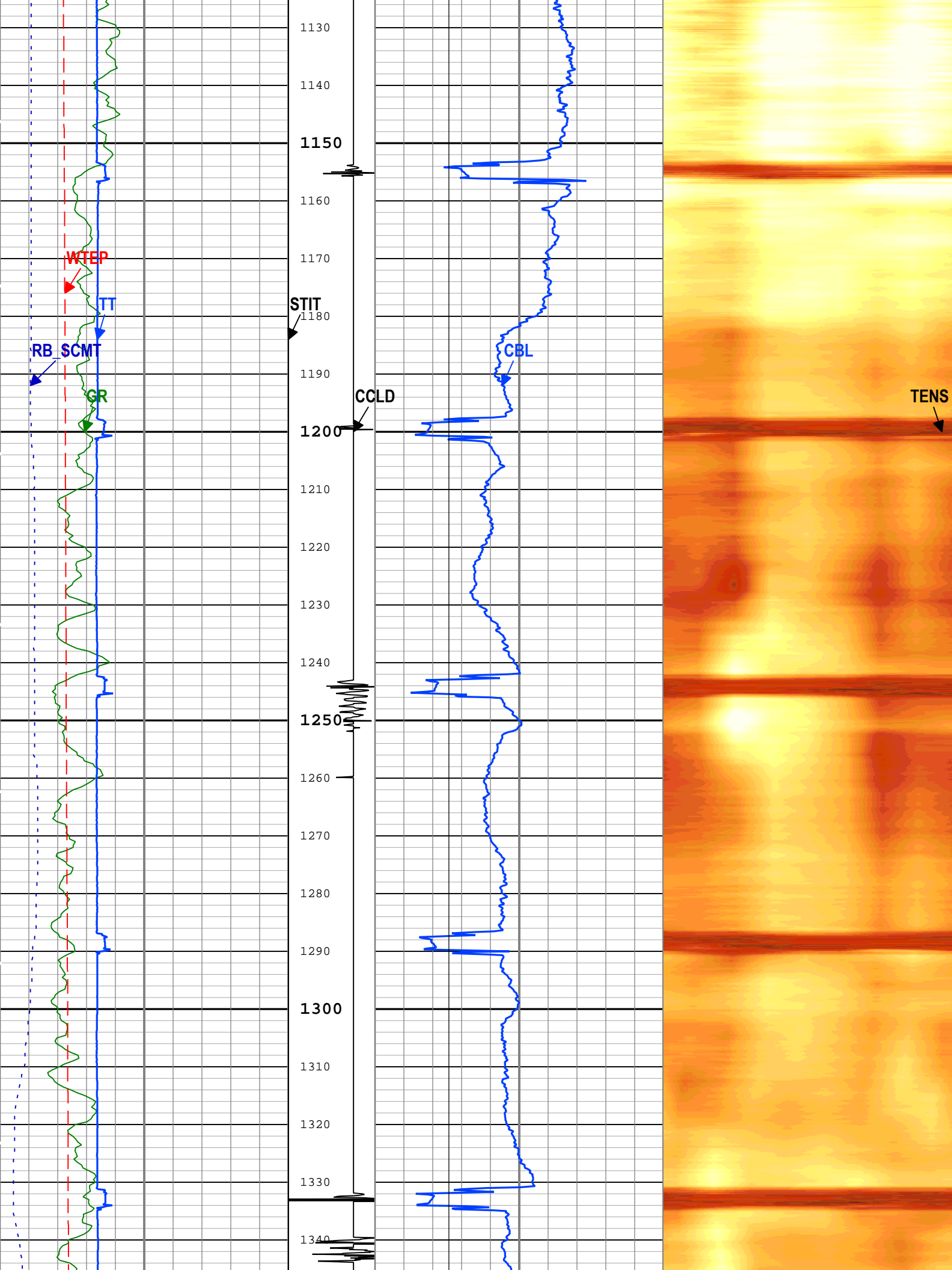


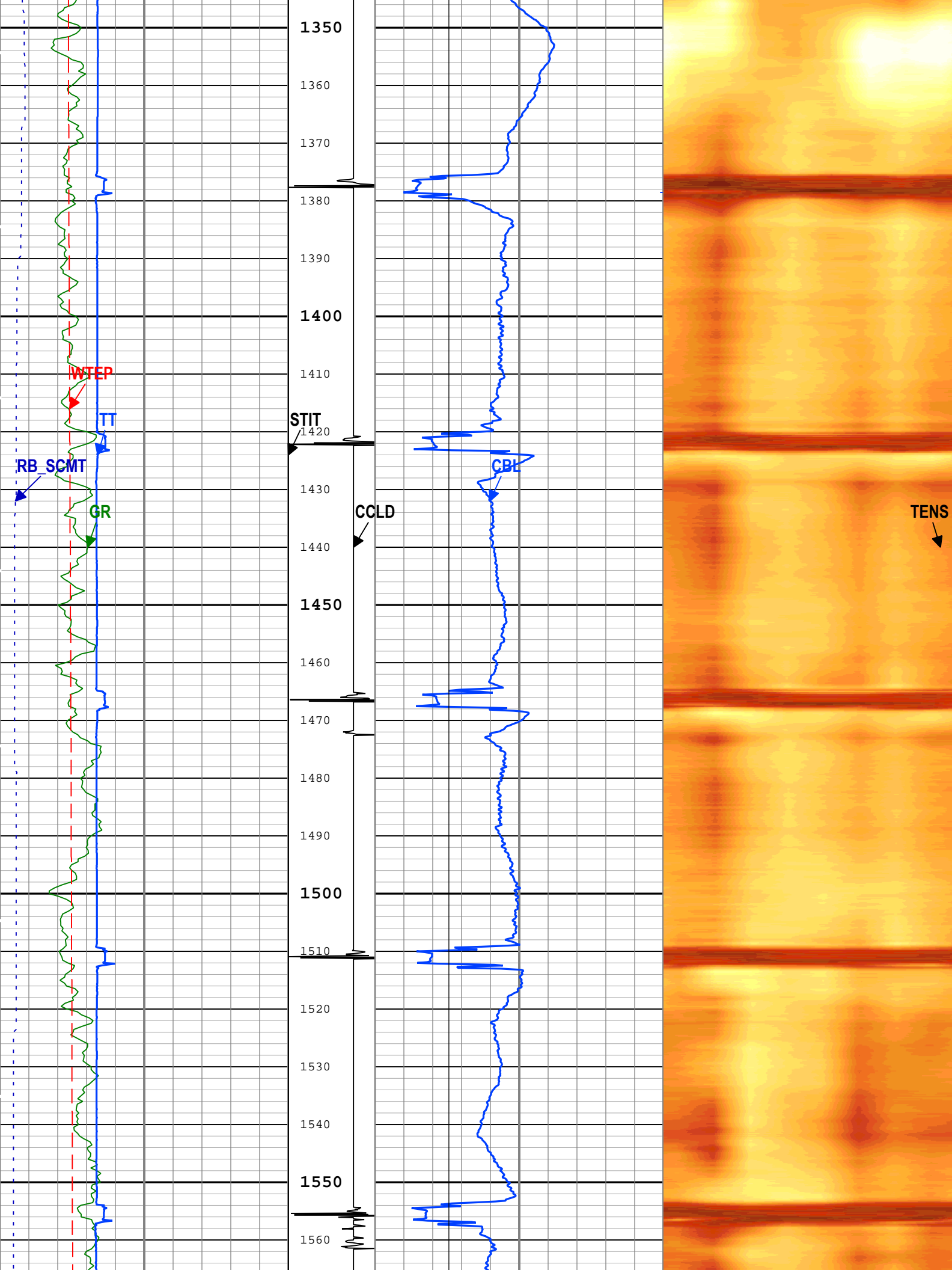


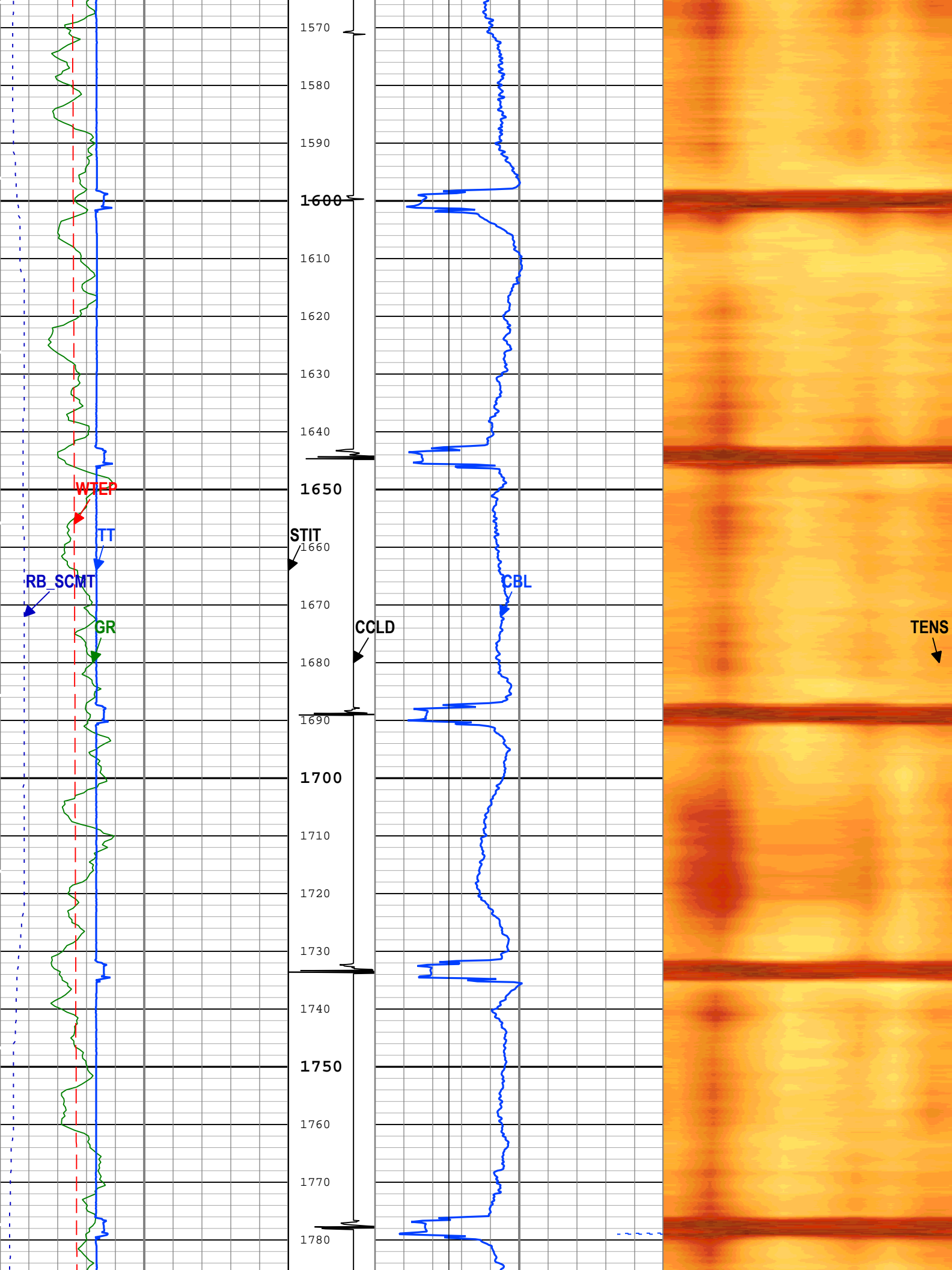


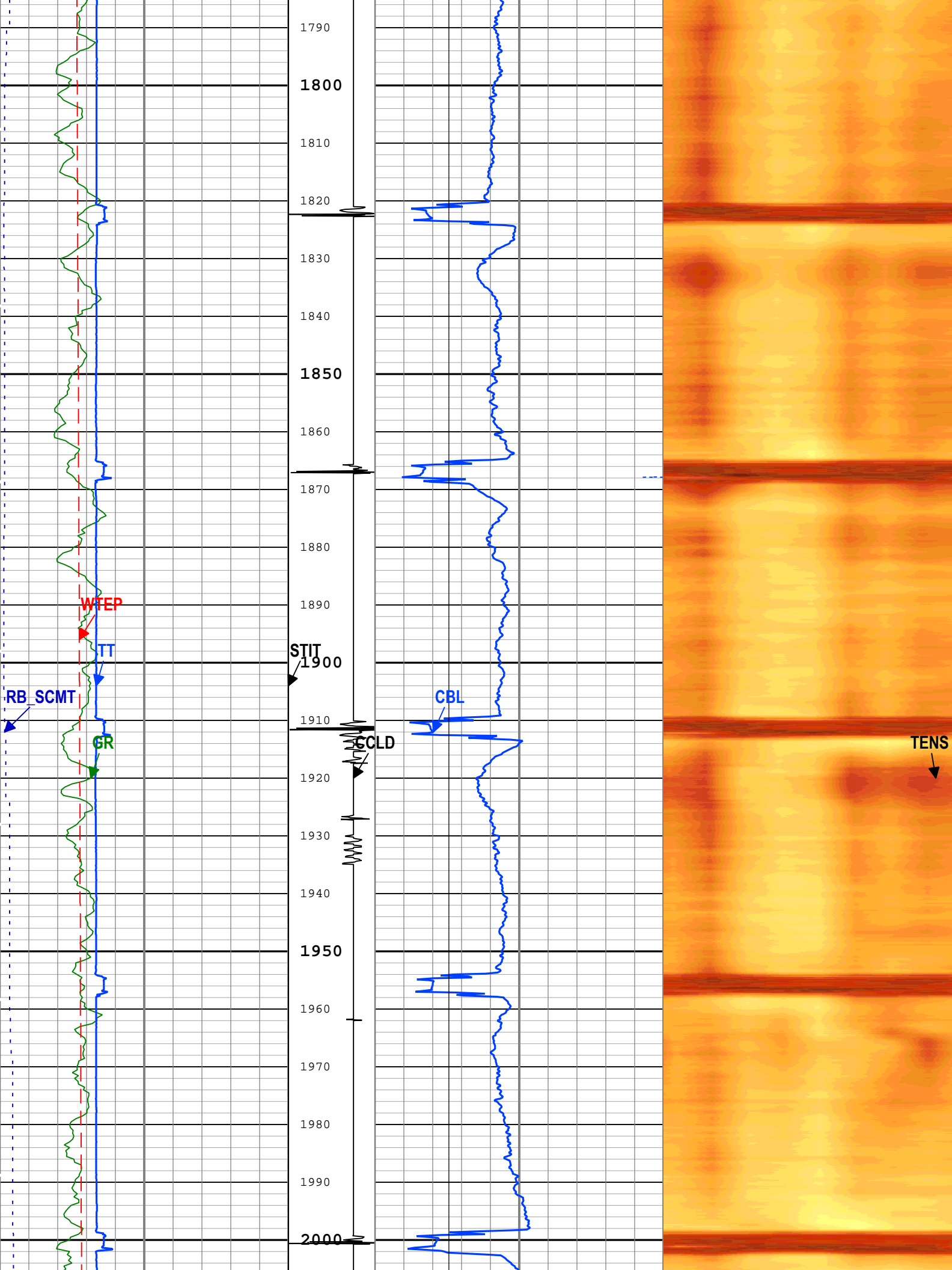


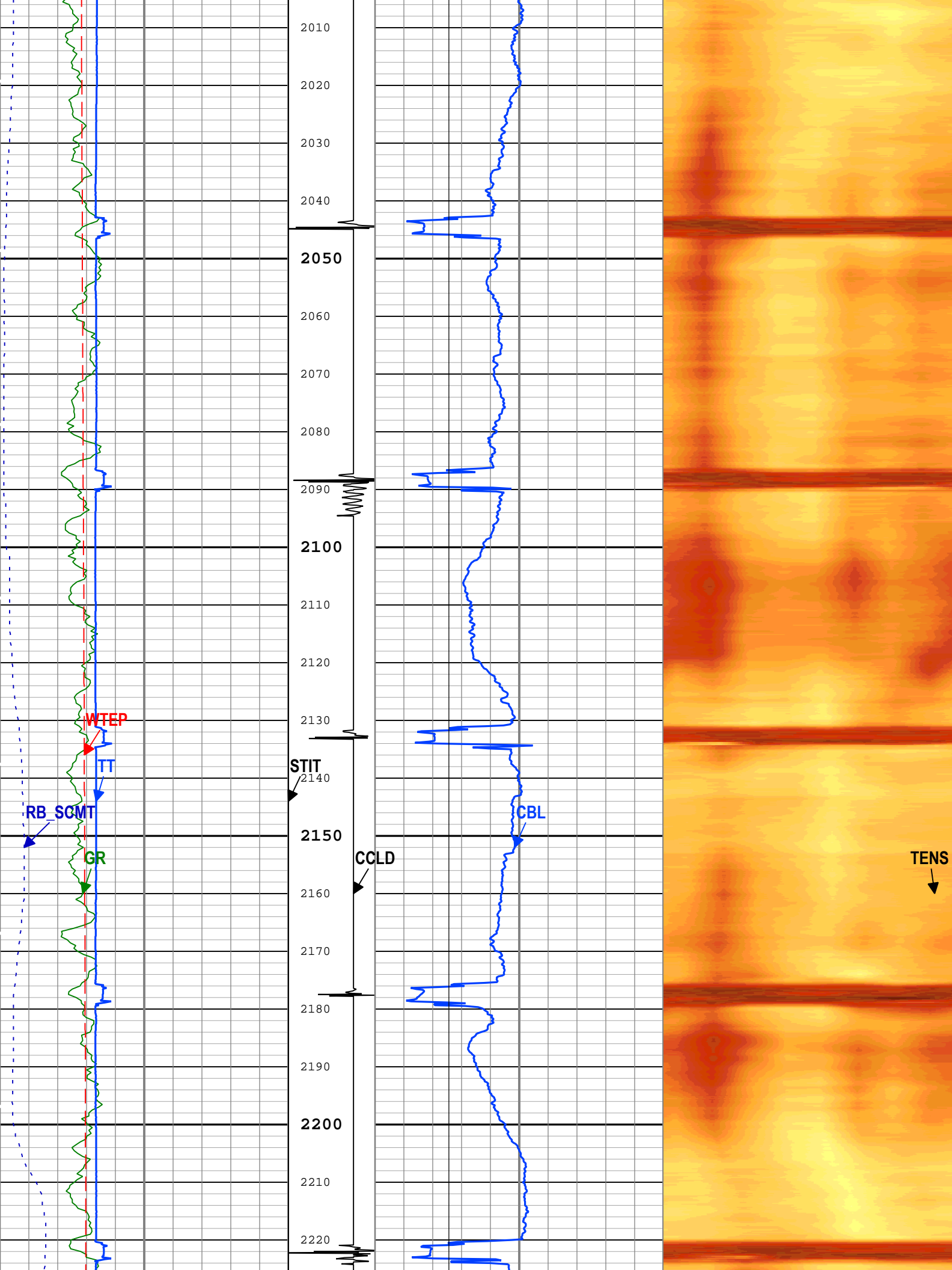


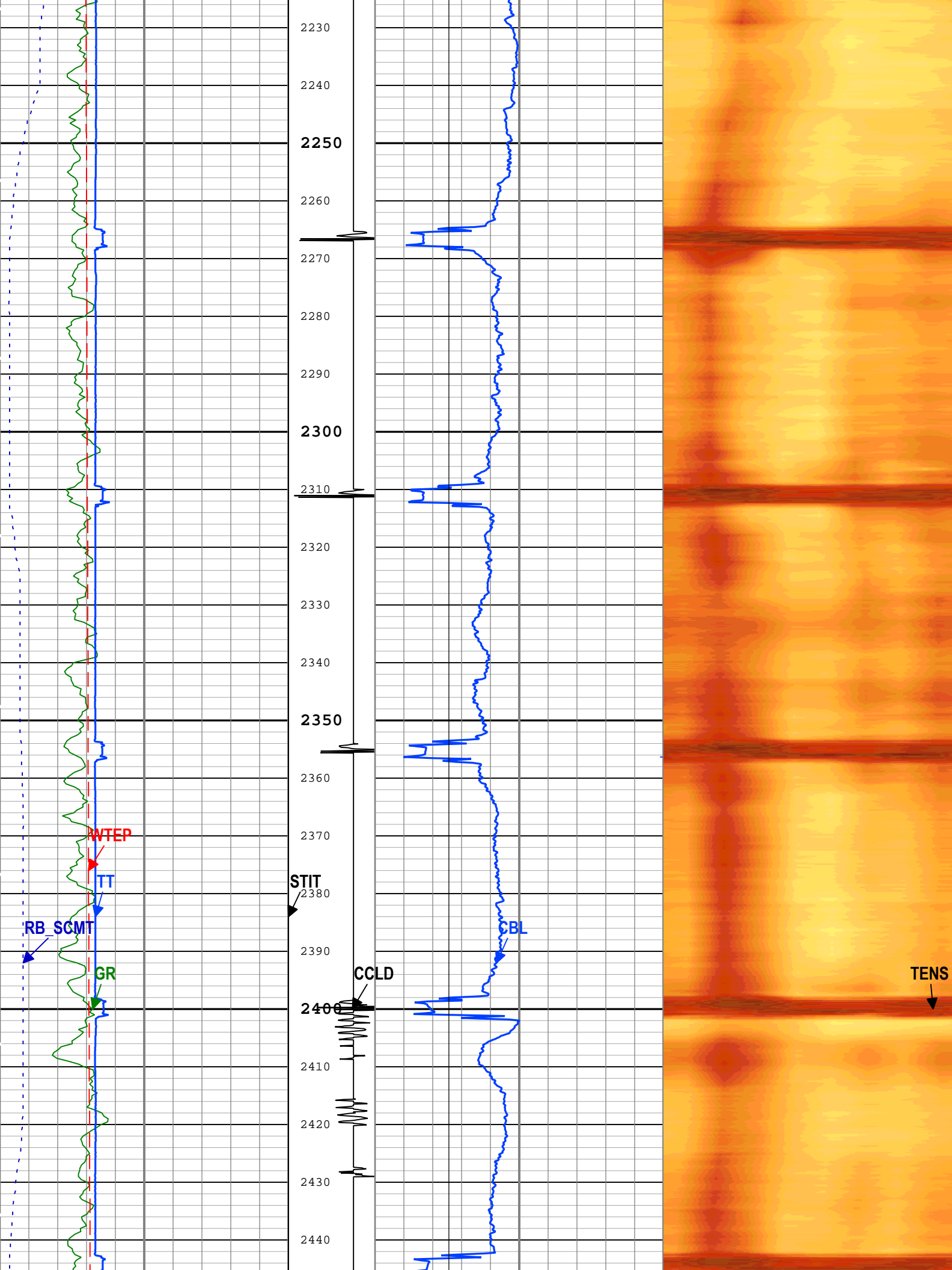


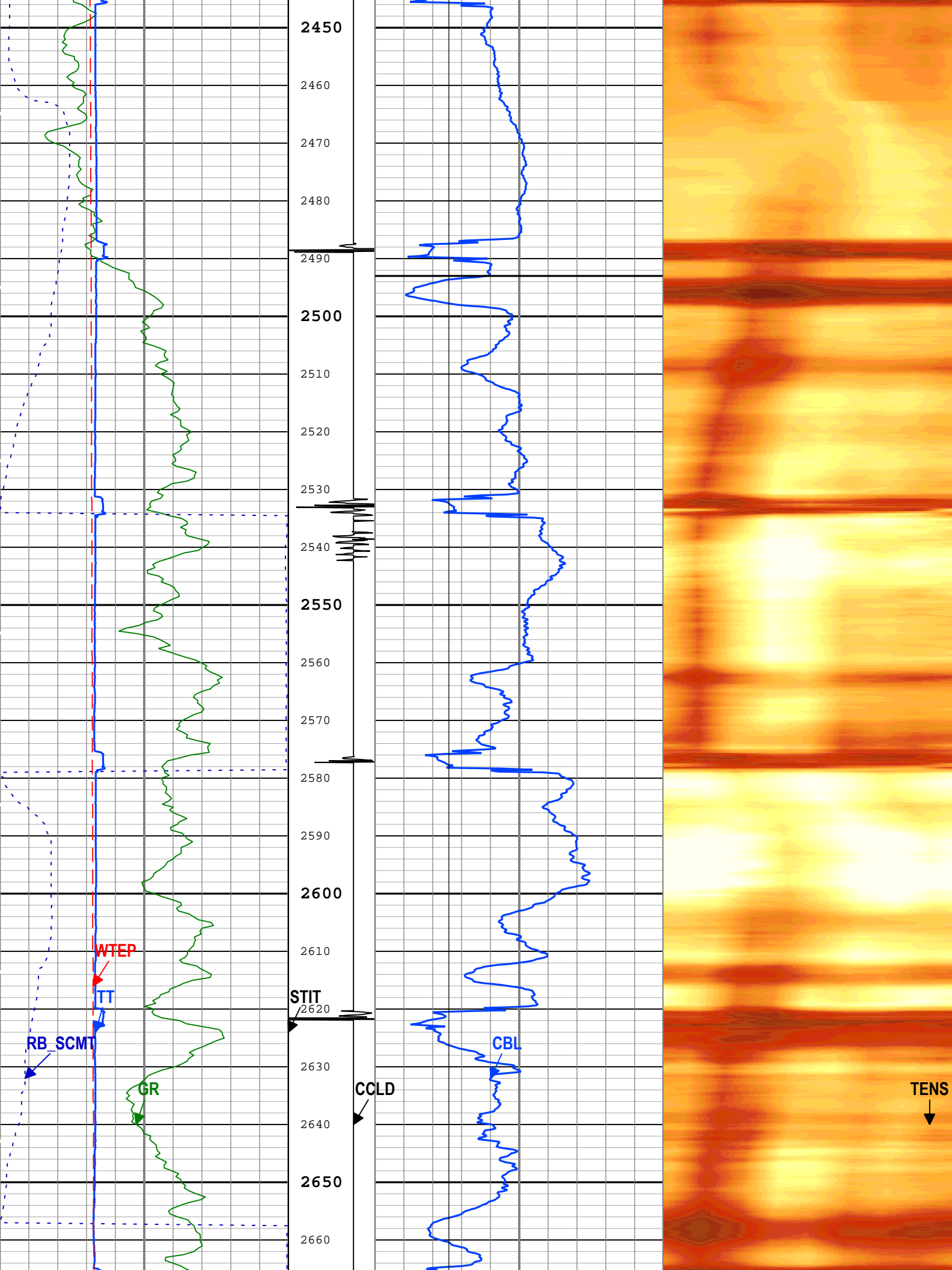




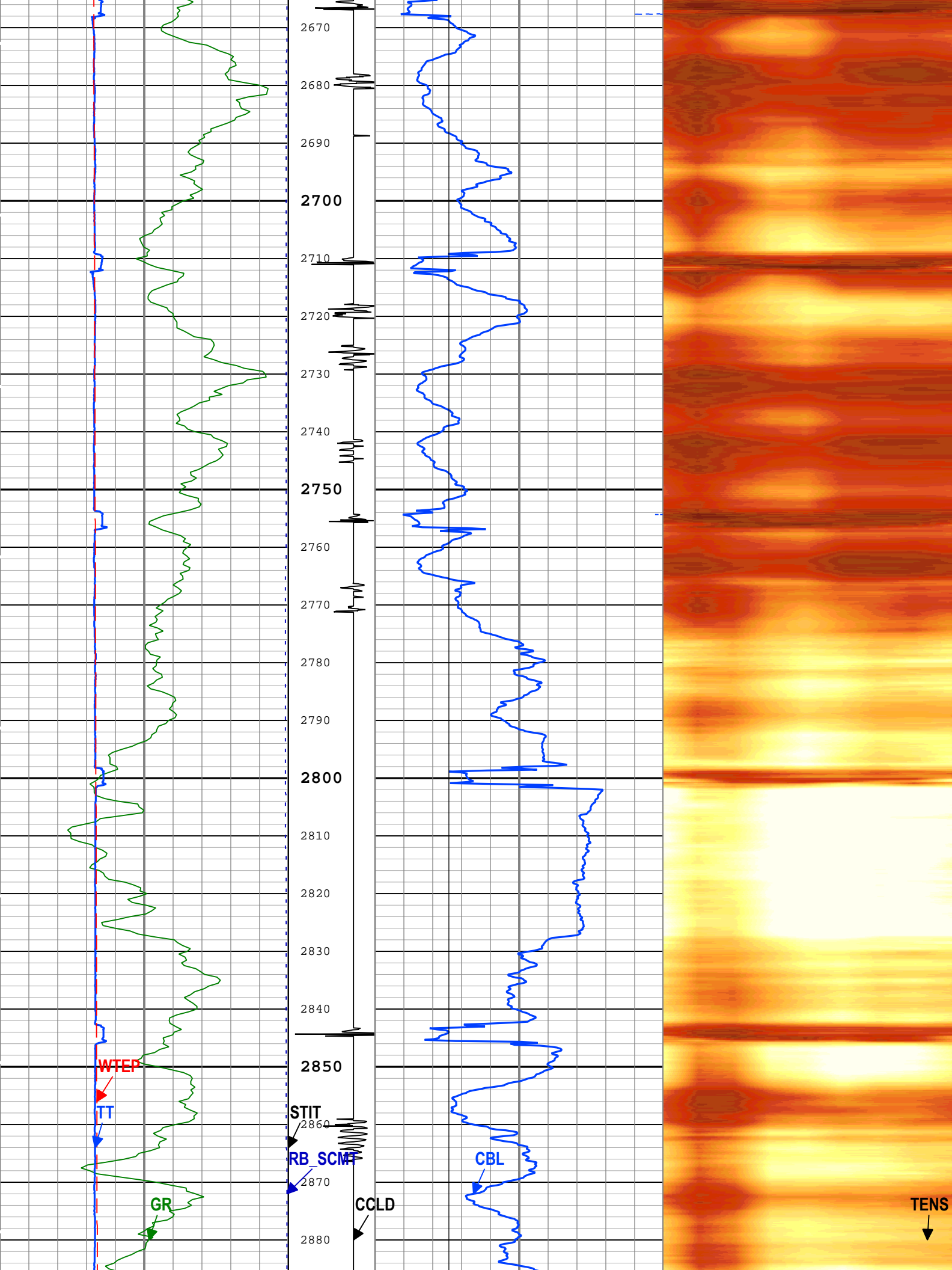


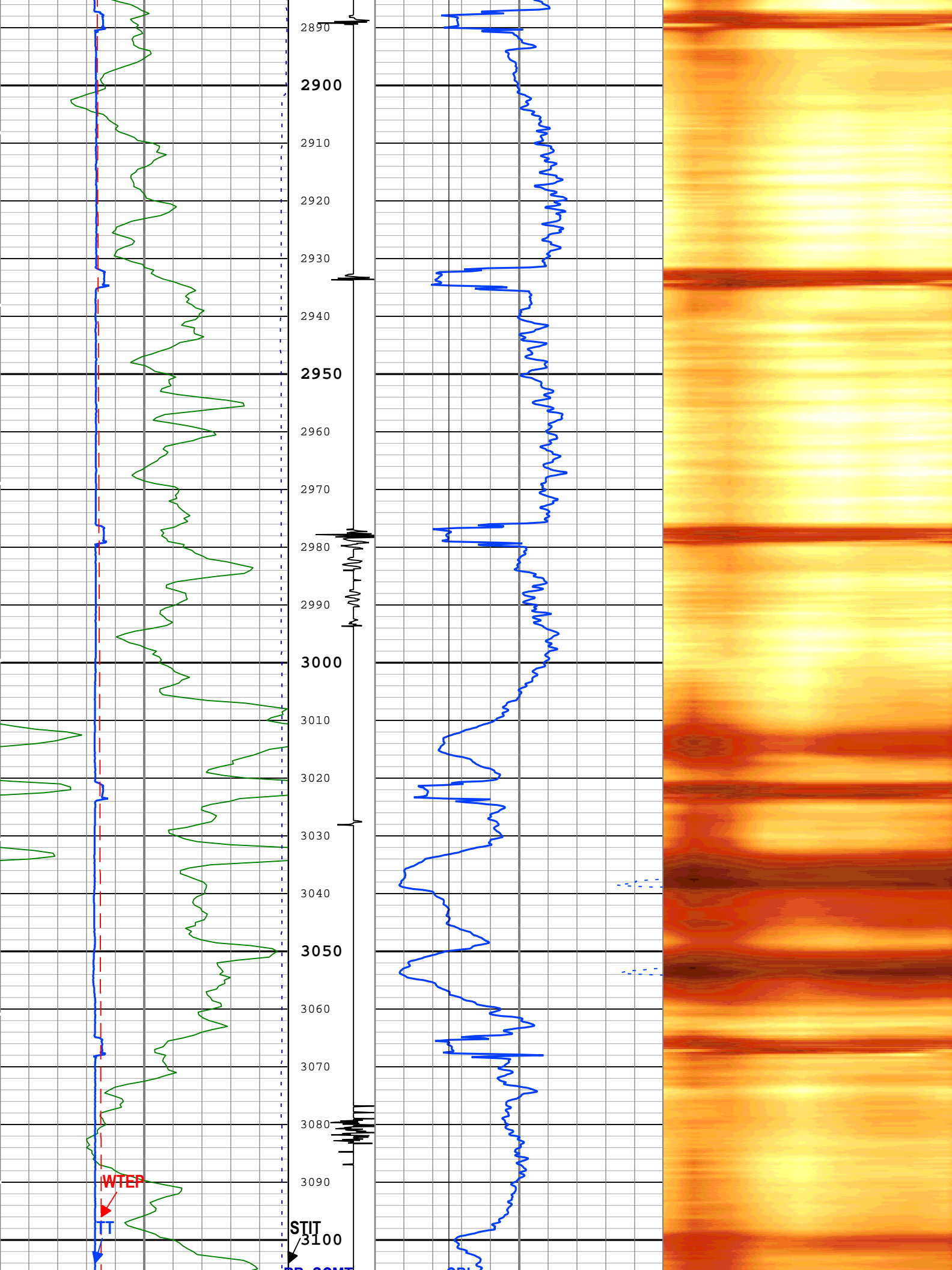


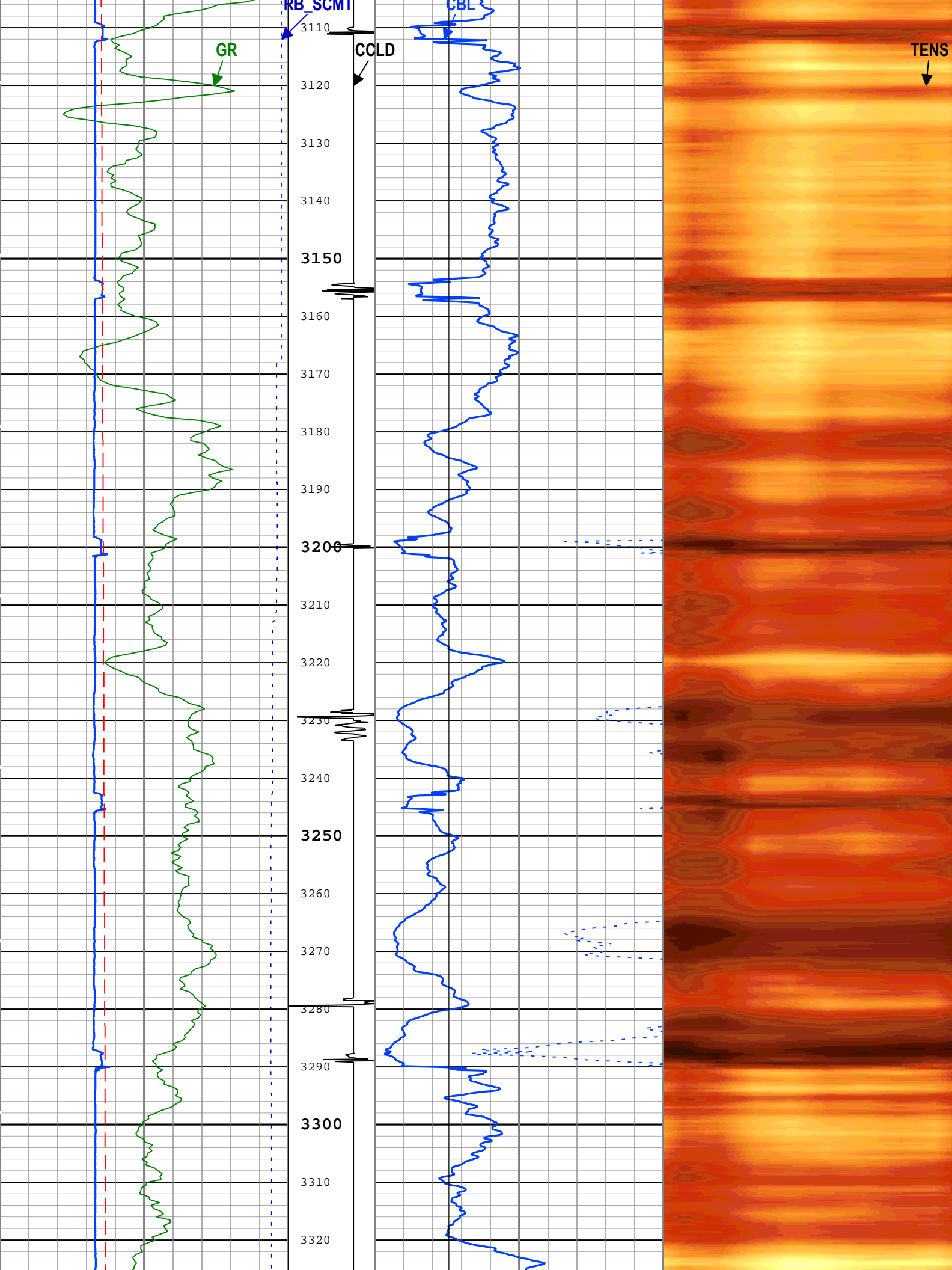


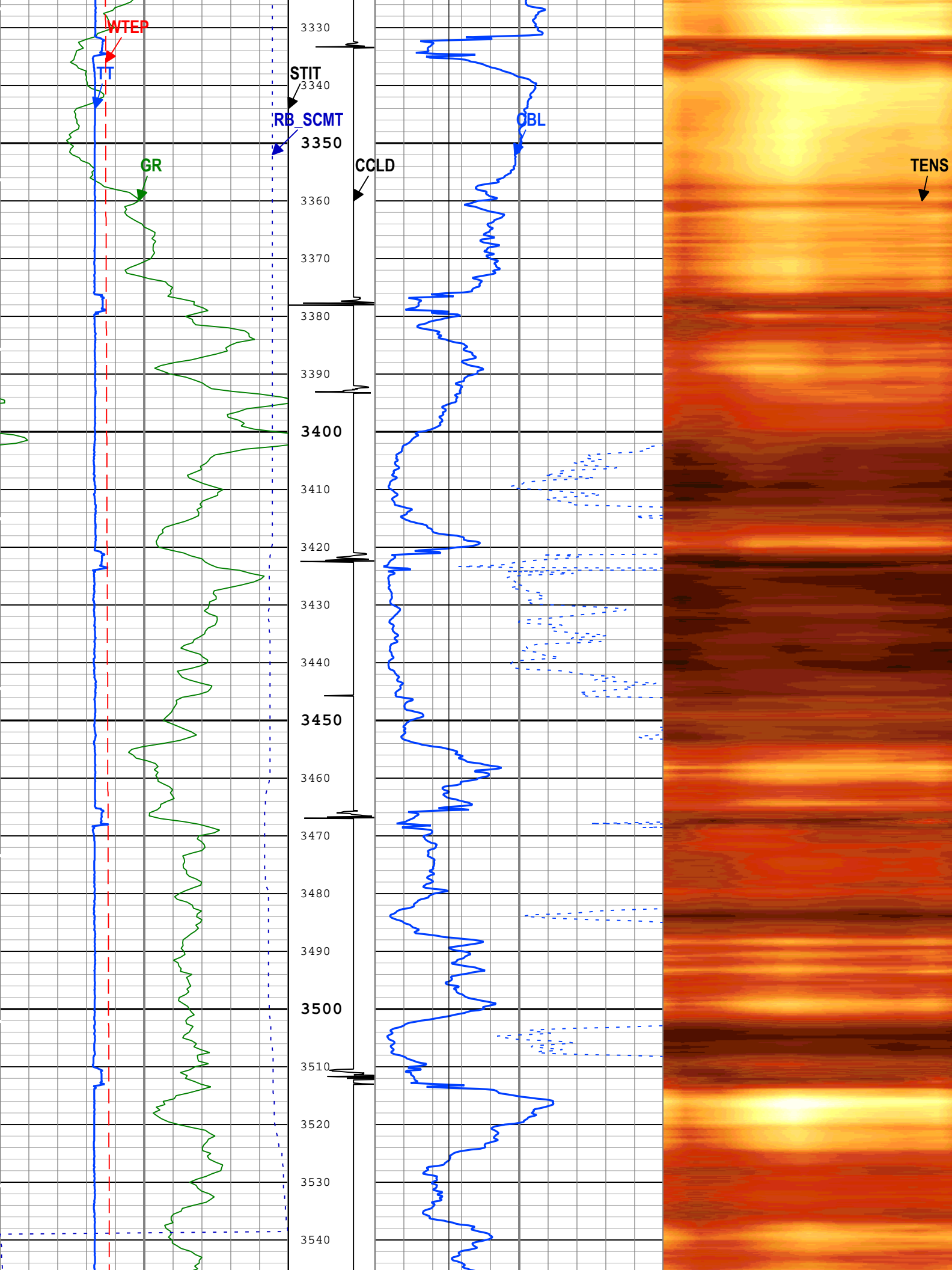


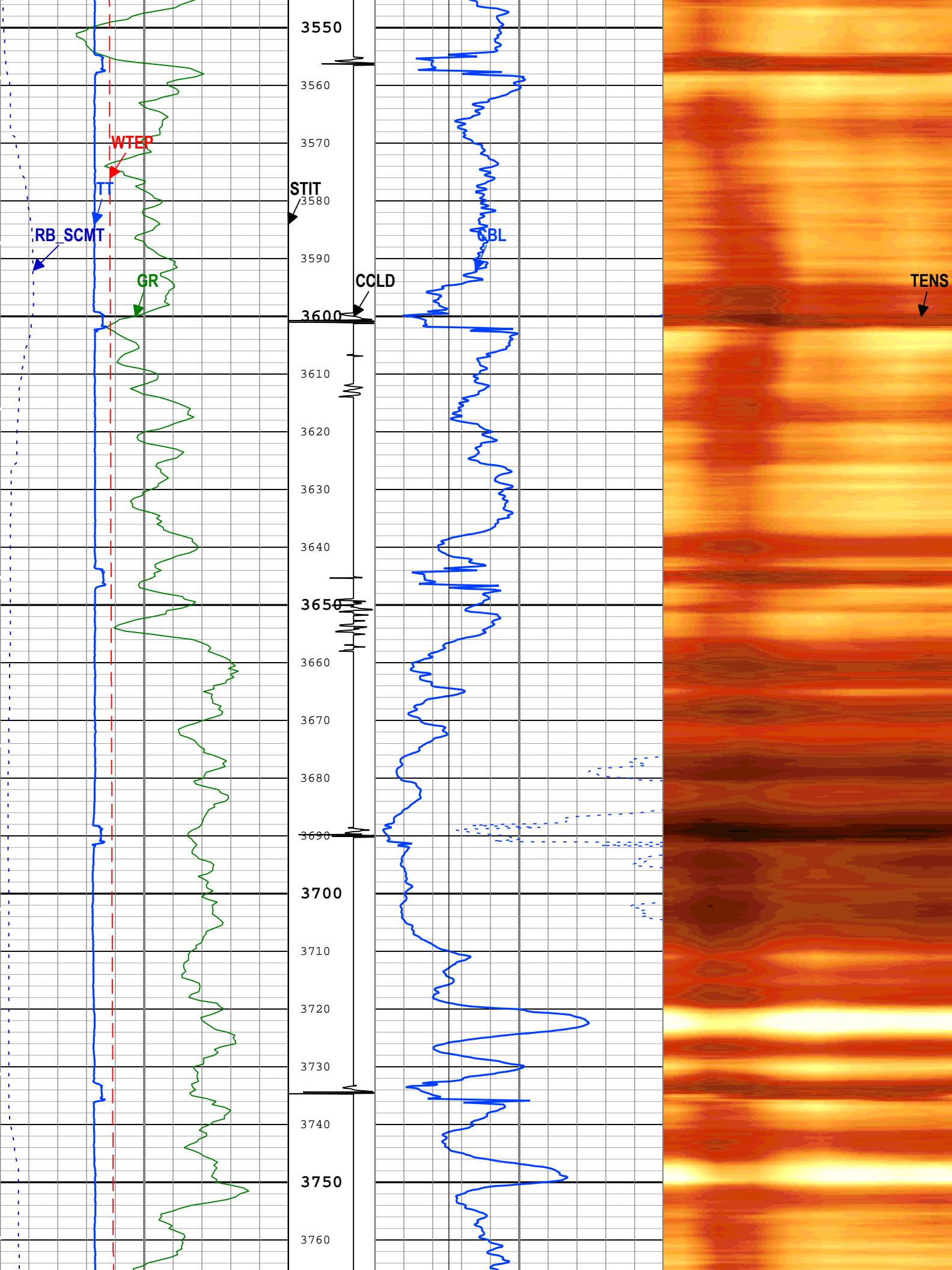


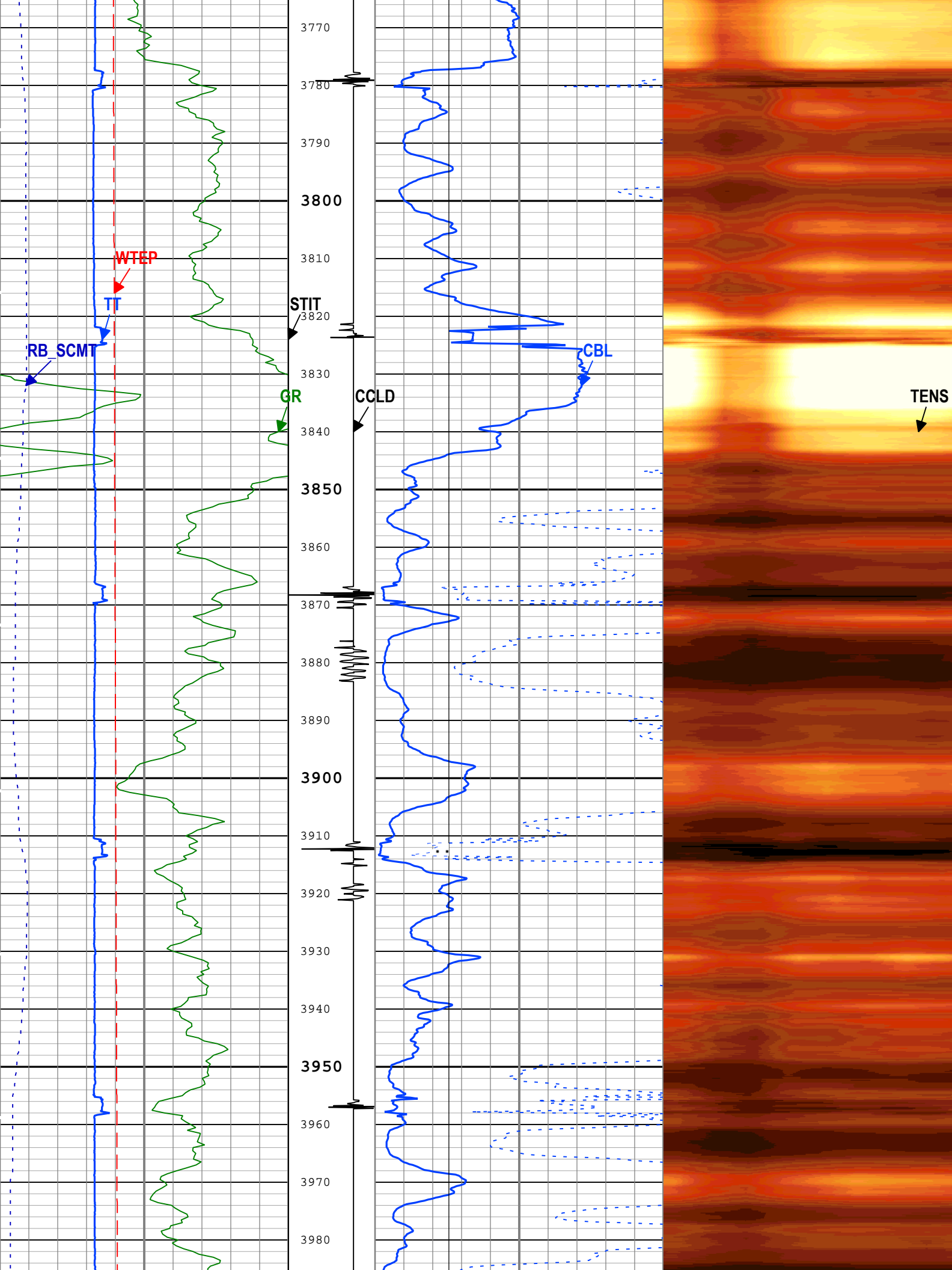


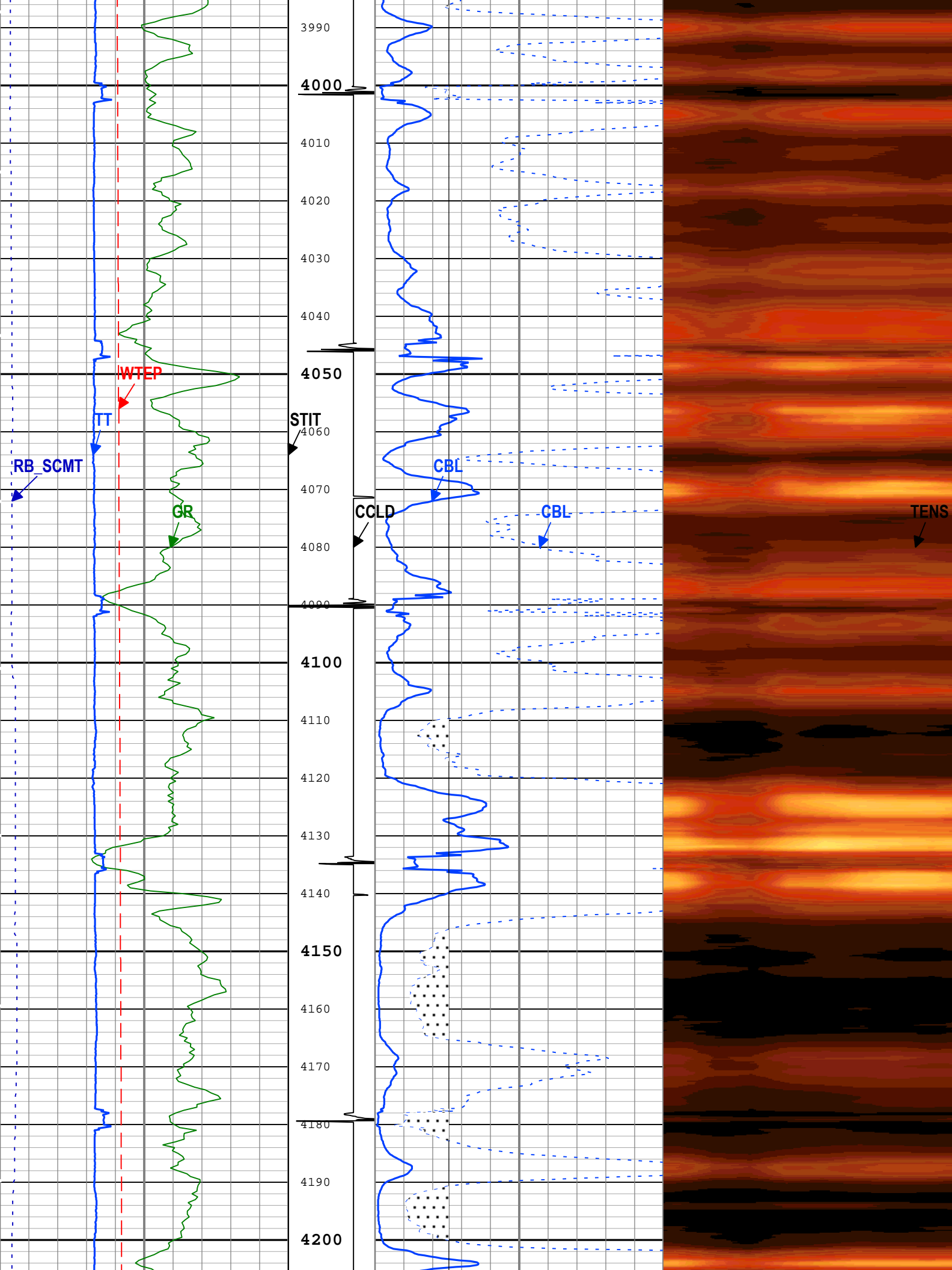


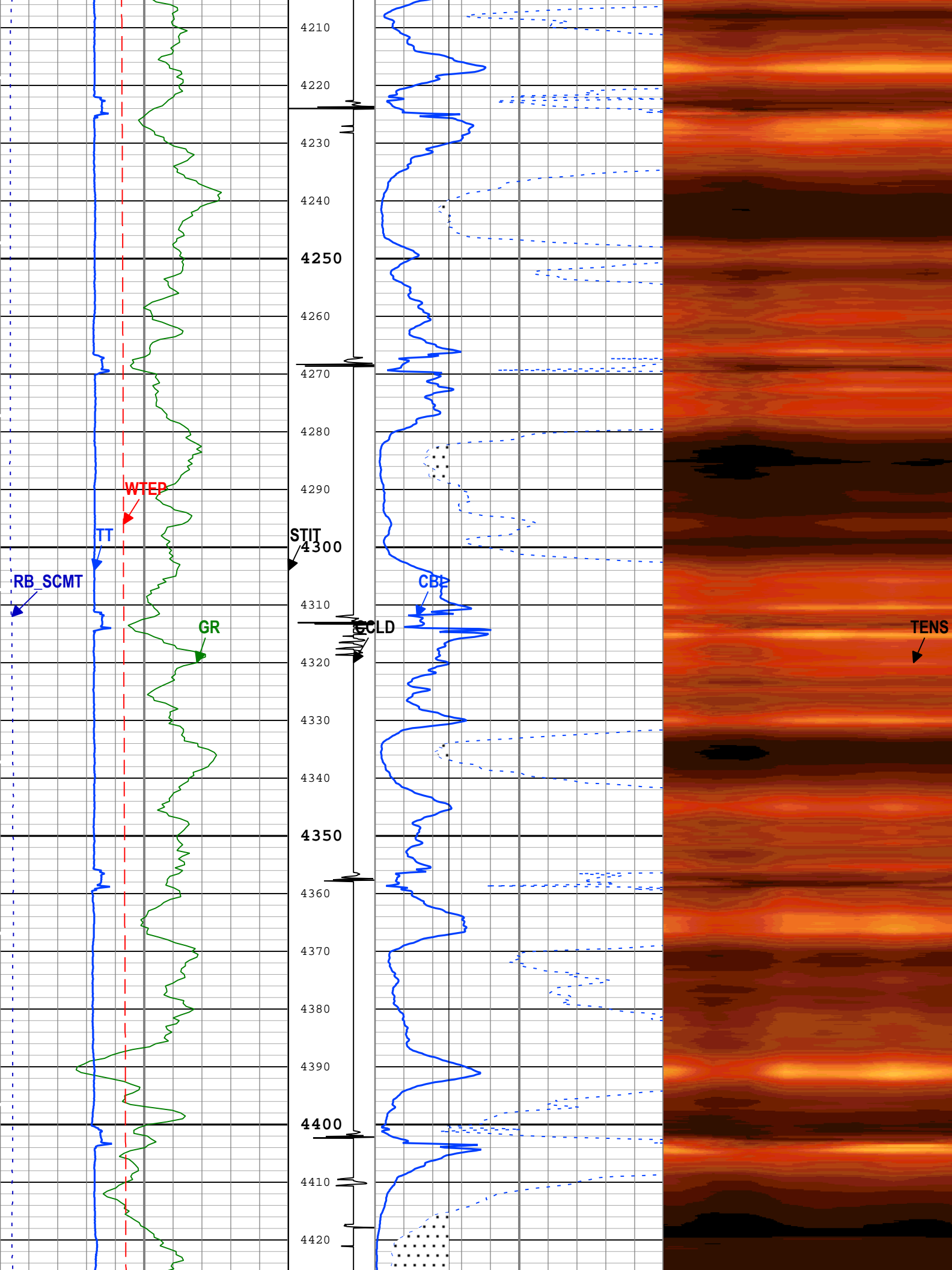




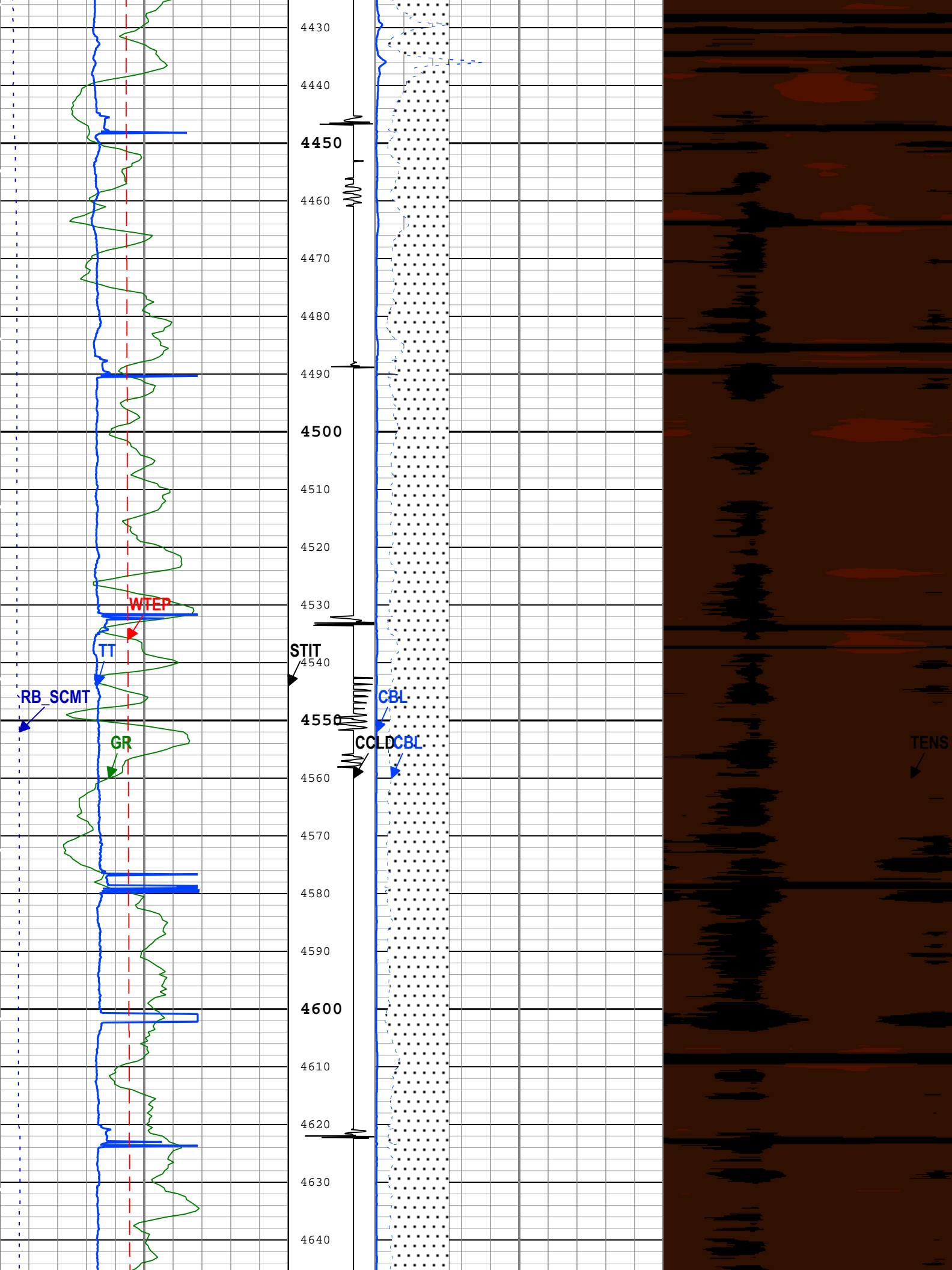


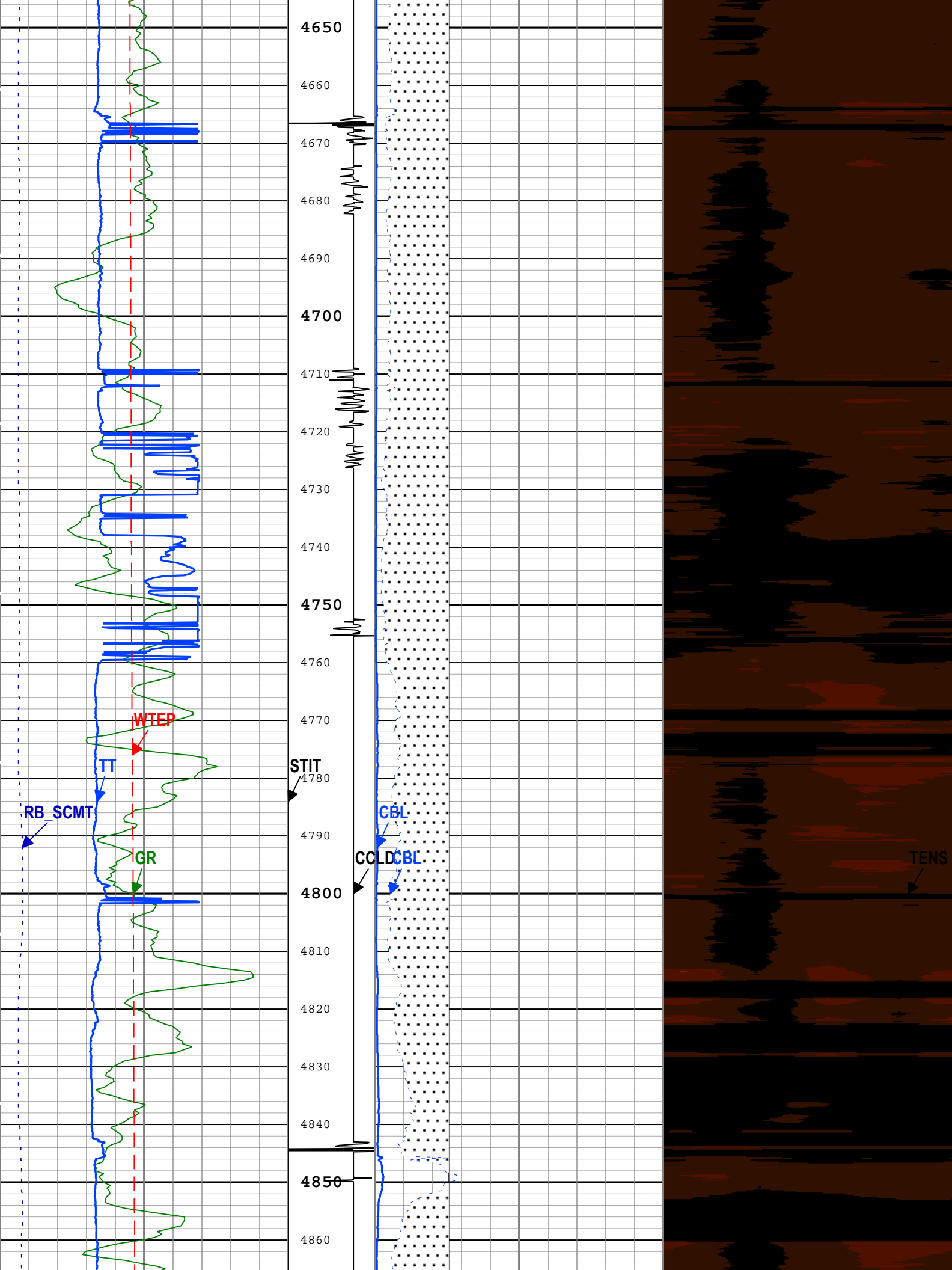


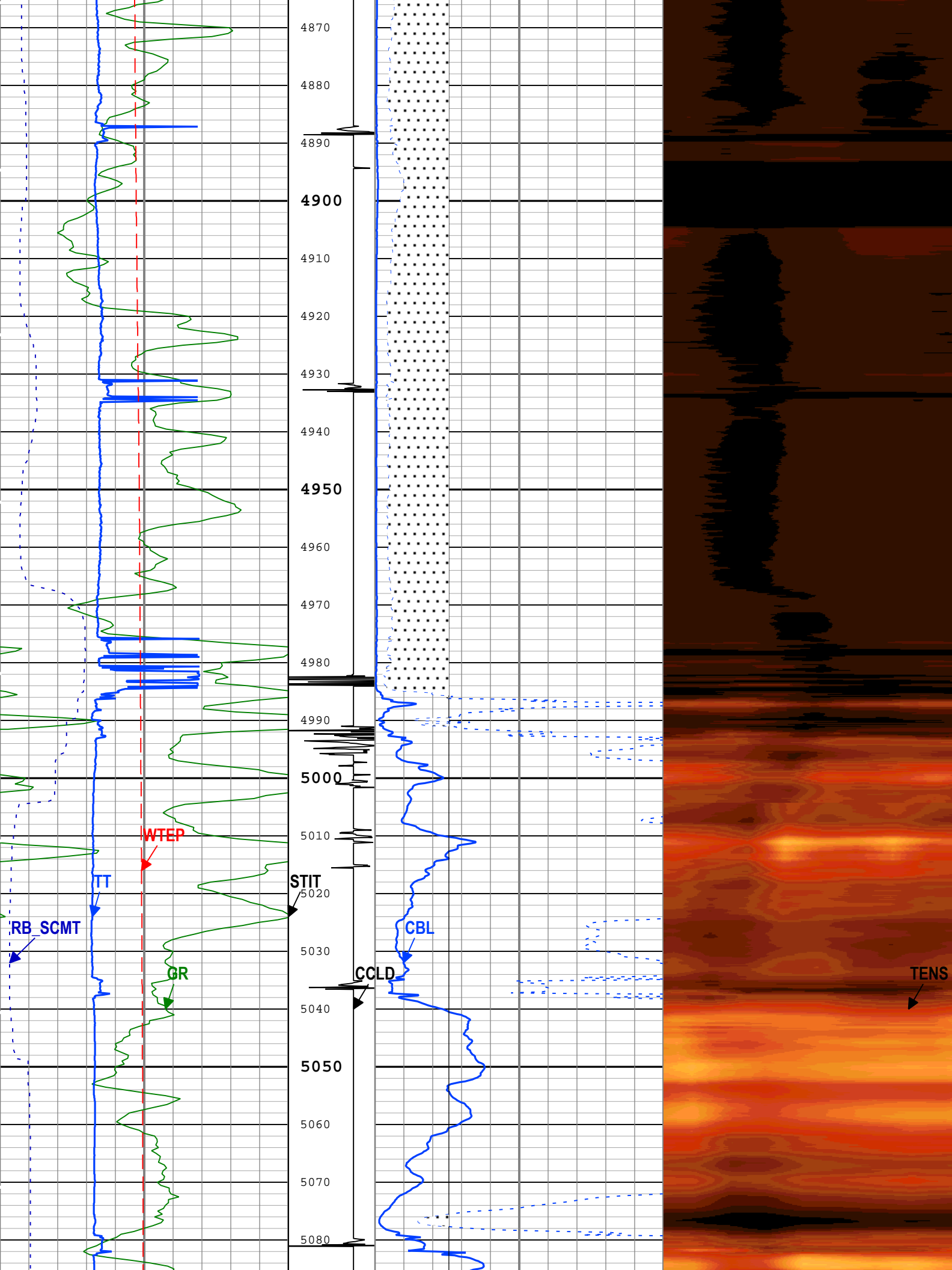


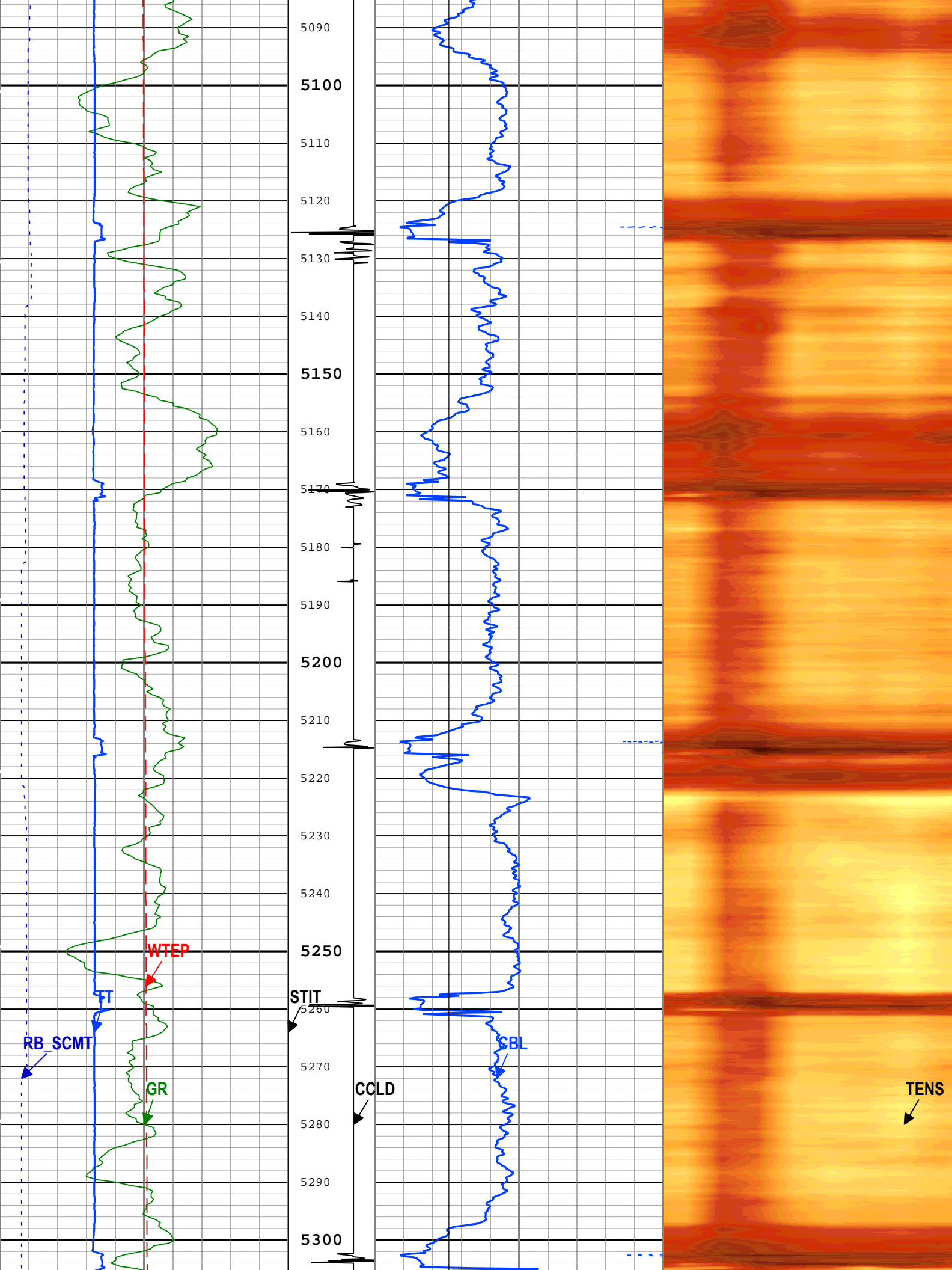


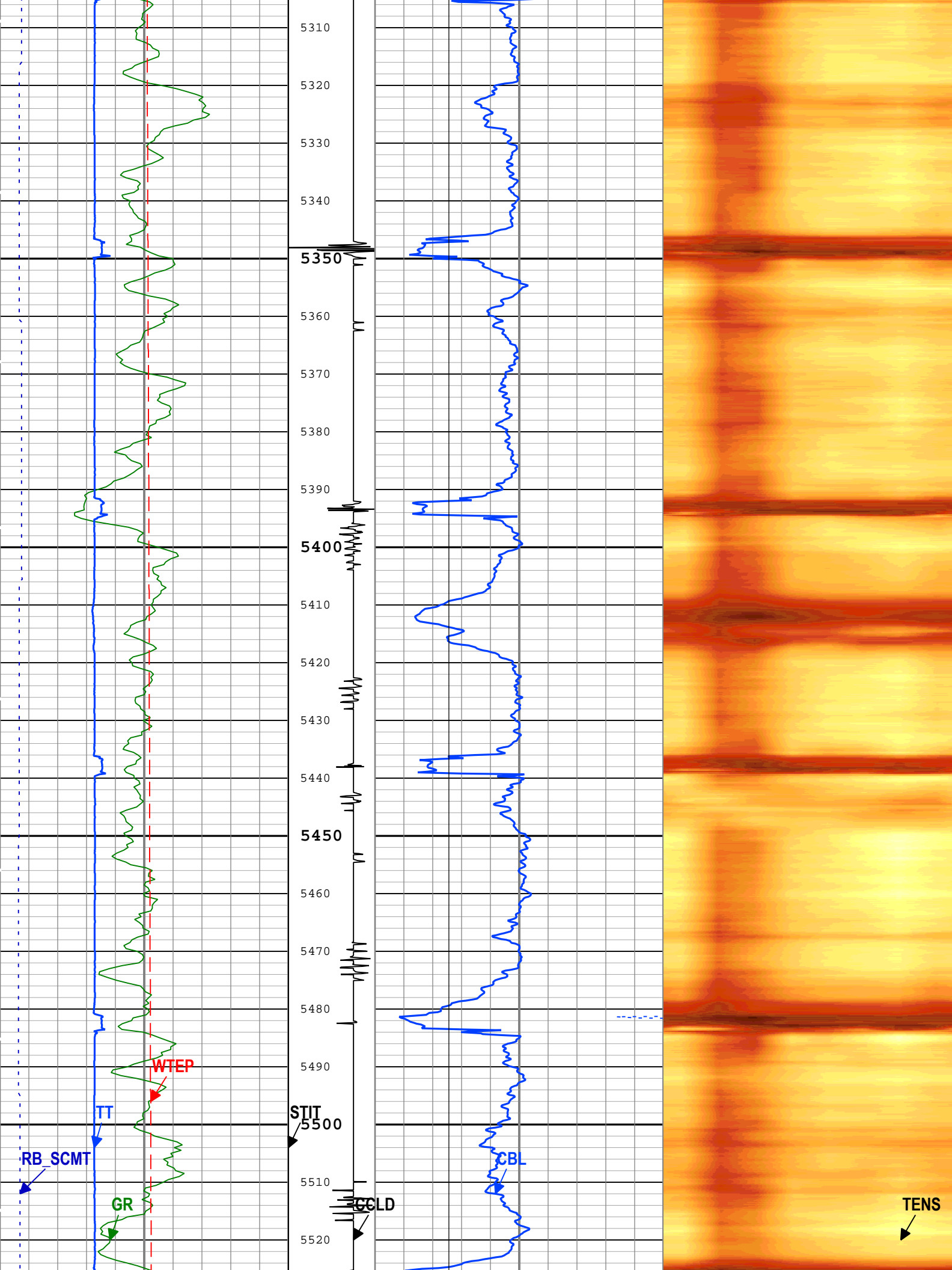


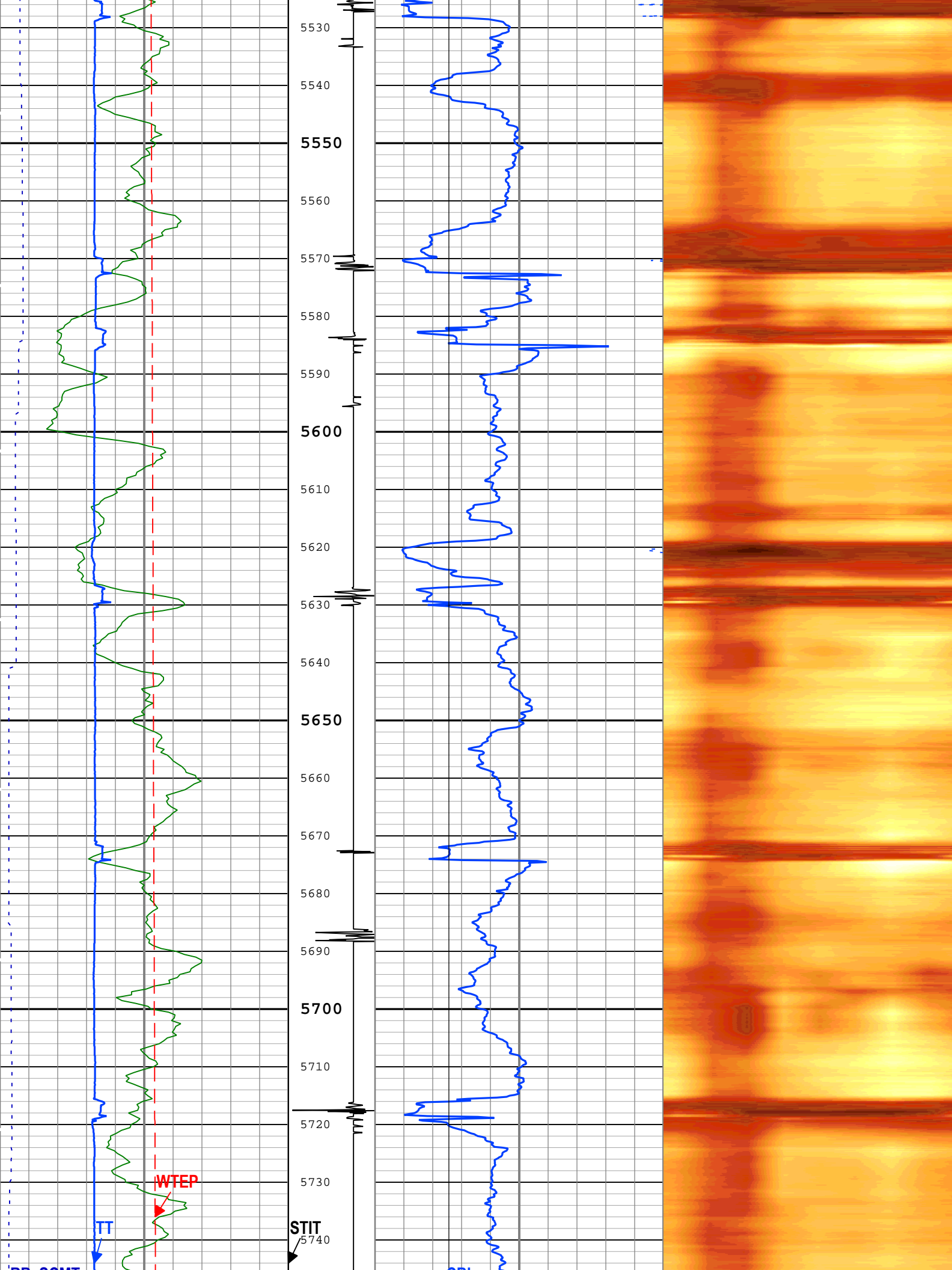


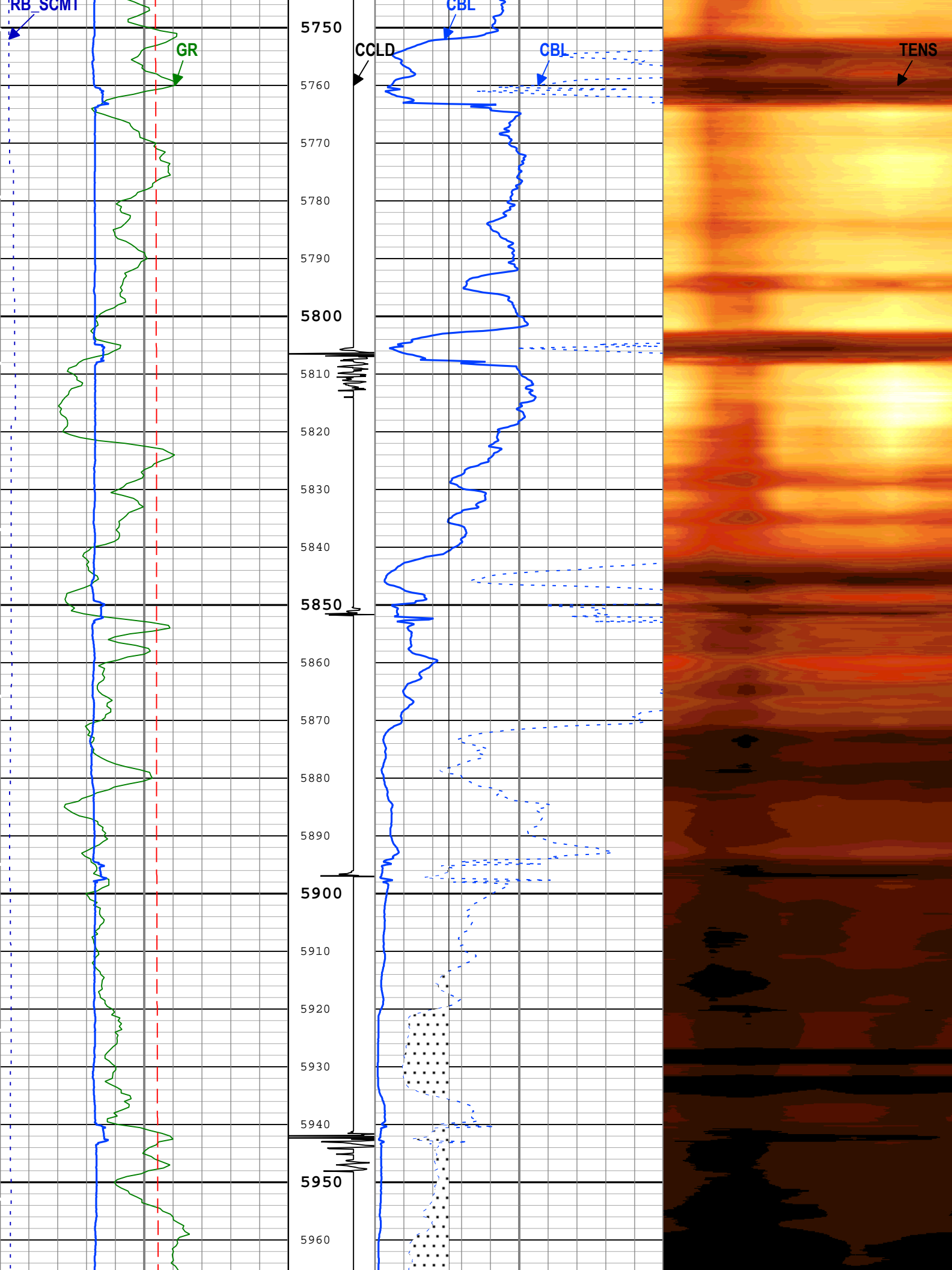


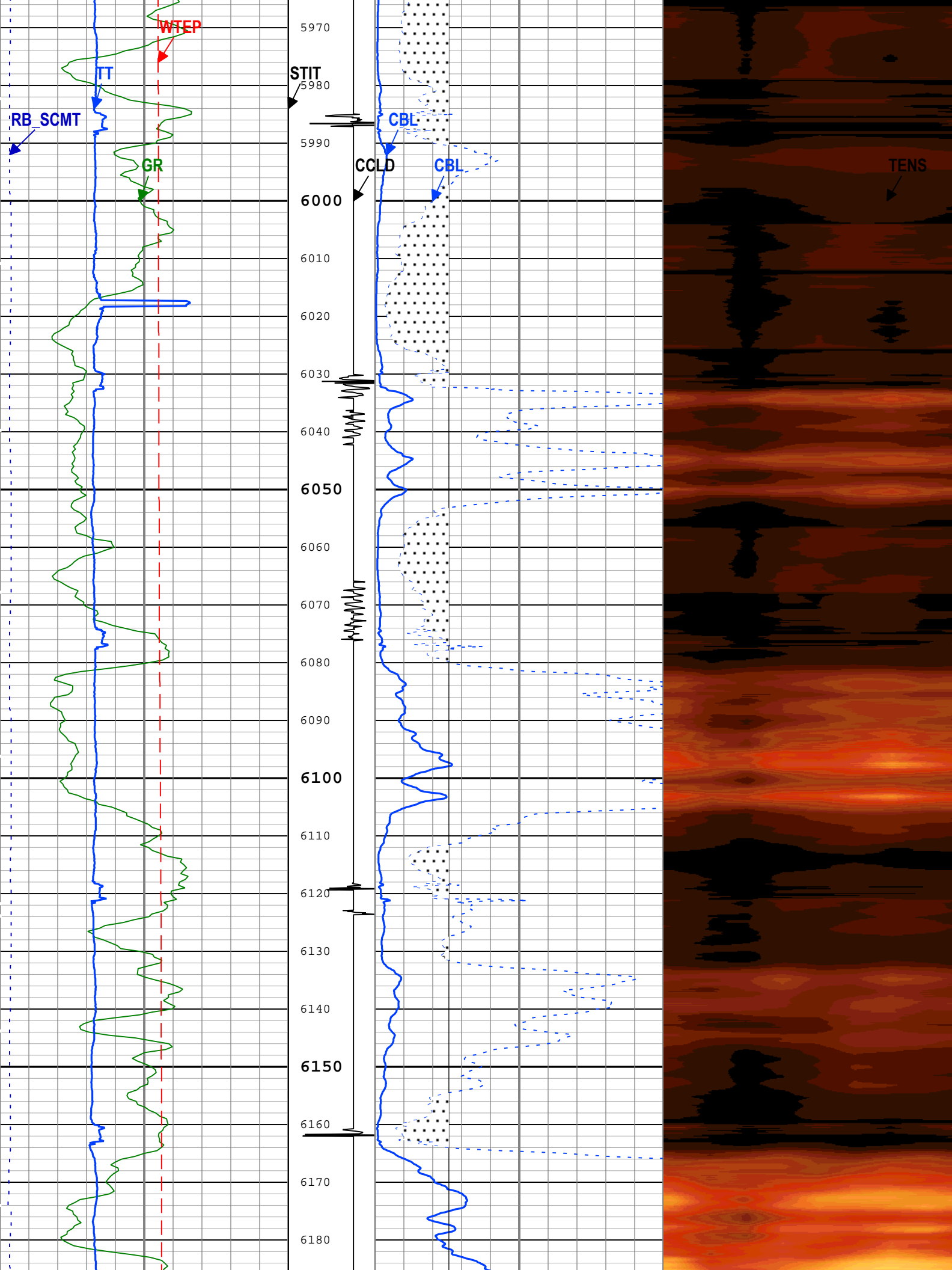




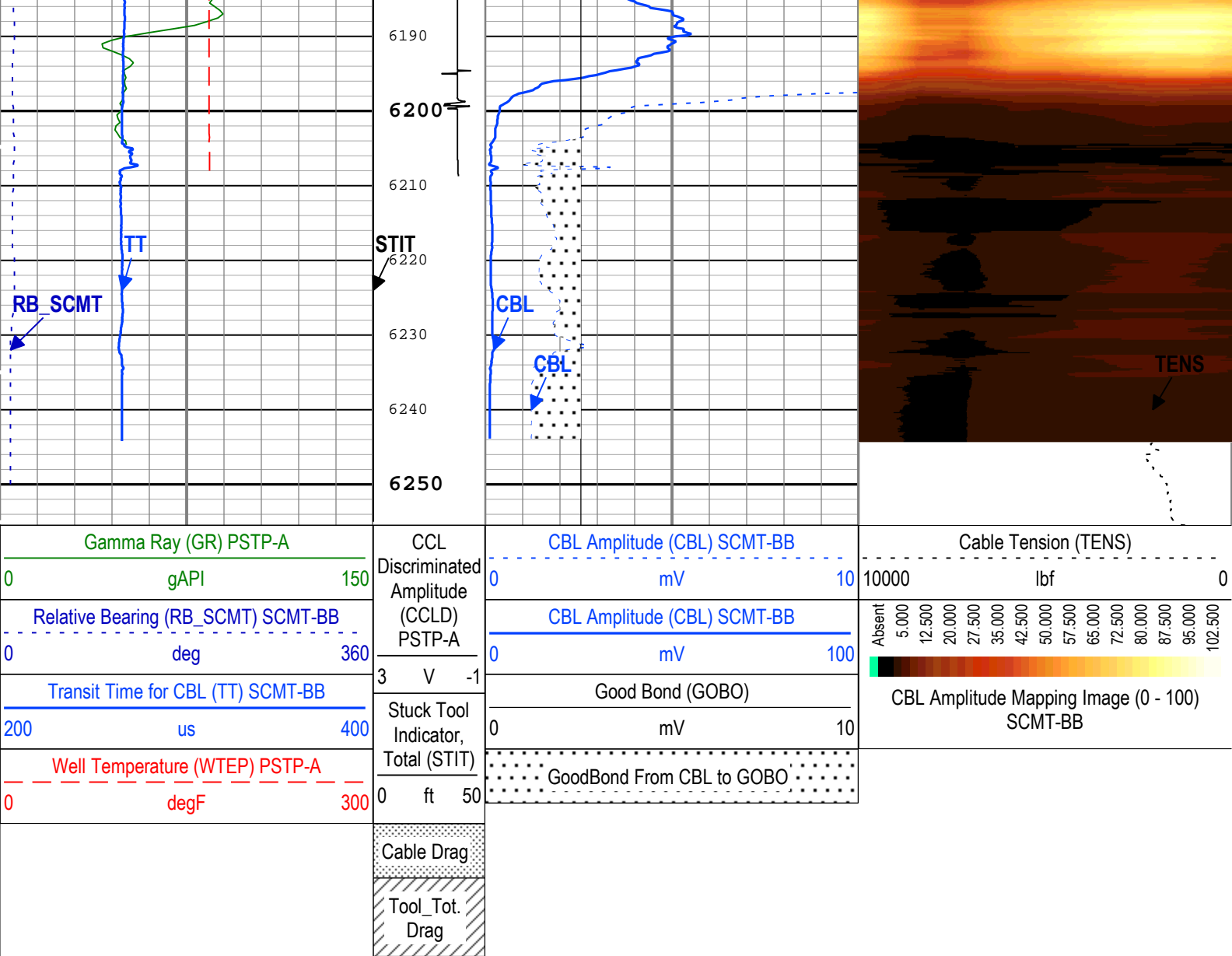












TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT Amplitudes and MAP Image    Format: Log ( SCMT\_Amp\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured  
Depth    Creation Date: 03-Aug-2015 14:53:30

## Channel Processing Parameters

### Run 1: Parameters

| Parameter | Description  | Tool            | Value     | Unit    |
|-----------|--|-----------------|-----------|---------|
| BHT       | Bottom Hole Temperature                              | Borehole        | 168.1     | degF    |
| BILI      | Bond Index Level for Zone Isolation                  | SCMT-BB         | 0.8       |         |
| CB3D      | SCMT CBL 3 ft Peak Detection Mode                    | SCMT-BB         | Peak      |         |
| CB3G      | SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate | SCMT-BB         | 237.4     | us      |
| CB3T      | SCMT CBL 3 ft Fixed Threshold Level                  | SCMT-BB         | 20        | mV      |
| CBLG      | CBL Gate Width                                       | SCMT-BB         | 59        | us      |
| CBRA      | CBL LQC Reference Amplitude in Free Pipe             | SCMT-BB         | 71        | mV      |
| CMCF      | CBL Cement Type Compensation Factor                  | SCMT-BB         | 0.2       |         |
| THNO      | Nominal Casing Thickness - Zoned along logger depths | WLSESSION       | 0.304     | in      |
| DC_MODE   | Depth Correction Mode                                | DepthCorrection | Real-time |         |
| DFD       | Drilling Fluid Density                               | Borehole        | 8.7       | lbm/gal |
| DFT       | Drilling Fluid Type                                  | Borehole        | Water     |         |
| DTMD      | Borehole Fluid Slowness                              | Borehole        | 196       | us/ft   |
| ETEM      | HP Estimated Temperature                             | PSTP-A          | 212       | degF    |
| ECF       | CBL Fluid Compensation Factor                        | SCMT-BB         | 0.22      |         |

|           |  |          |                   |       |
|-----------|--|----------|-------------------|-------|
| C-CF      | CBL Fluid Compensation Factor  | SCMT-BB  | 0.93              |       |
| GOBO_CURR | Good Bond in Arbitrary Cement  | SCMT-BB  | 9.48              | mV    |
| GTSE      | Generalized Temperature Selection, from Measured or Computed Temperature | Borehole | WTEP              |       |
| MAPD      | SCMT MAP Peak Detection Mode   | SCMT-BB  | Peak              |       |
| MAPG      | SCMT MAP Peak Detection T0_Delay and Noise Gate                          | SCMT-BB  | 167               | us    |
| MAPT      | SCMT MAP Fixed Threshold Level   | SCMT-BB  | 30                | mV    |
| MATT_CURR | Maximum Attenuation in Arbitrary Cement                                  | SCMT-BB  | 8.76              | dB/ft |
| MCCF      | MAP Cement Type Compensation Factor                                      | SCMT-BB  | 0.35              |       |
| MCI       | Minimum Cemented Interval for Isolation                                  | SCMT-BB  | Depth Zoned       | ft    |
| MMSA      | MAP Minimum Sonic Amplitude  | SCMT-BB  | 7.17              | mV    |
| MSA       | Minimum Sonic Amplitude  | SCMT-BB  | 1.12              | mV    |
| MSA_CURR  | Minimum Sonic Amplitude in Arbitrary Cement                              | SCMT-BB  | 5.73              | mV    |
| PTCO      | PBMS Pressure Temperature Correction Option                              | PSTP-A   | Gauge Temperature |       |
| RBC       | Relative Bearing Correction Allow/Disallow                               | SCMT-BB  | Allow             |       |
| RUN_SNUM  | Run Sequence Number  | WSDRUN   | 1                 |       |
| TD        | Total Measured Depth   | Borehole | 6300              | ft    |
| ZCMT      | Acoustic Impedance of Cement   | SCMT-BB  | 3.7               | Mrayl |
| ZCMT_NEAT | Acoustic Impedance of Cement in Neat Cement                              | SCMT-BB  | 6.8               | Mrayl |

| Depth Zone Parameters |       |              |             |
|-----------------------|-------|--------------|-------------|
| Parameter             | Value | Start ( ft ) | Stop ( ft ) |
| MCI                   | 14.81 | 453.5        | 2493        |
| MCI                   | 4.75  | 2493         | 6255.5      |
| All depth are actual. |       |              |             |

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

| Run 1: Parameters |                                  |           |       |      |
|-------------------|----------------------------------|-----------|-------|------|
| Parameter         | Description                      | Tool      | Value | Unit |
| CMTM              | SCMT Operating Mode              | SCMT-BB   | Log   |      |
| MAX_LOG_SPEED     | Toolstring Maximum Logging Speed | WLSESSION | 150   | ft/h |
| PCCG              | PSP Downhole CCL Gain            | PSTP-A    | 36 dB |      |

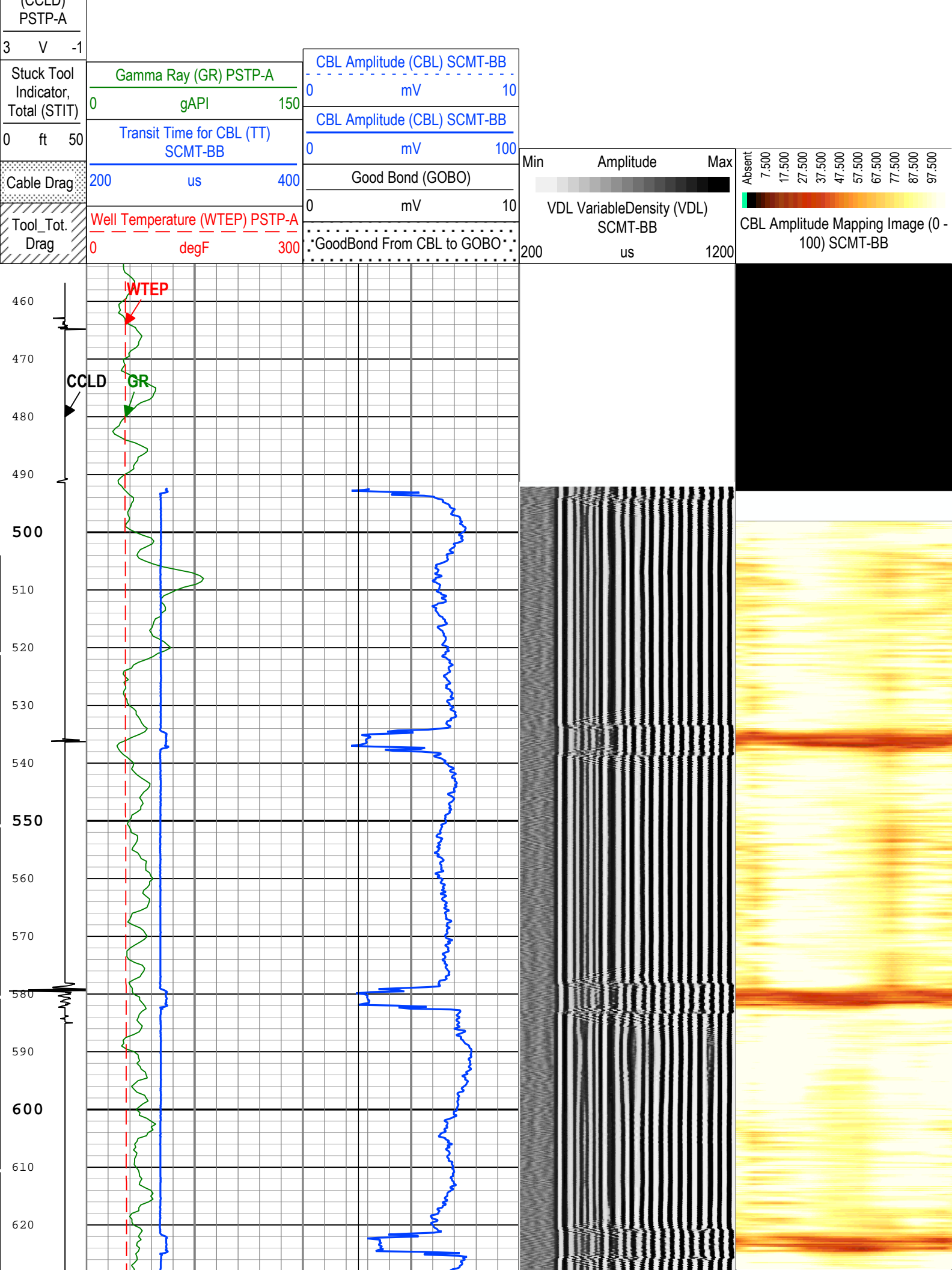
| Run 1 |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|
|       |  |  |  |  |  |  |  |  |  |
|       |  |  |  |  |  |  |  |  |  |

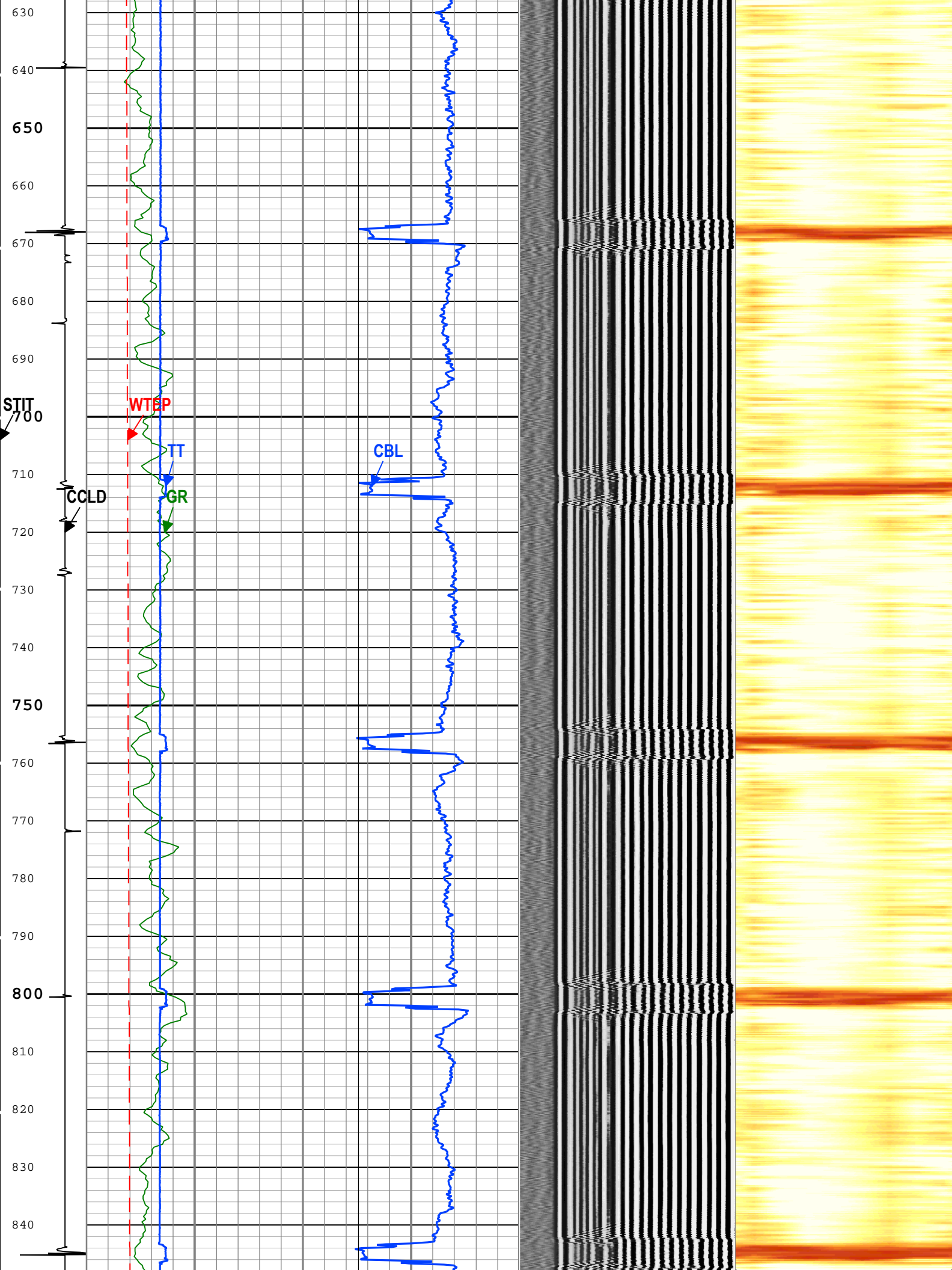
| Software Version   |                |
|--------------------|----------------|
| Acquisition System | Version        |
| Maxwell 2016       | 6.0.47569.3100 |

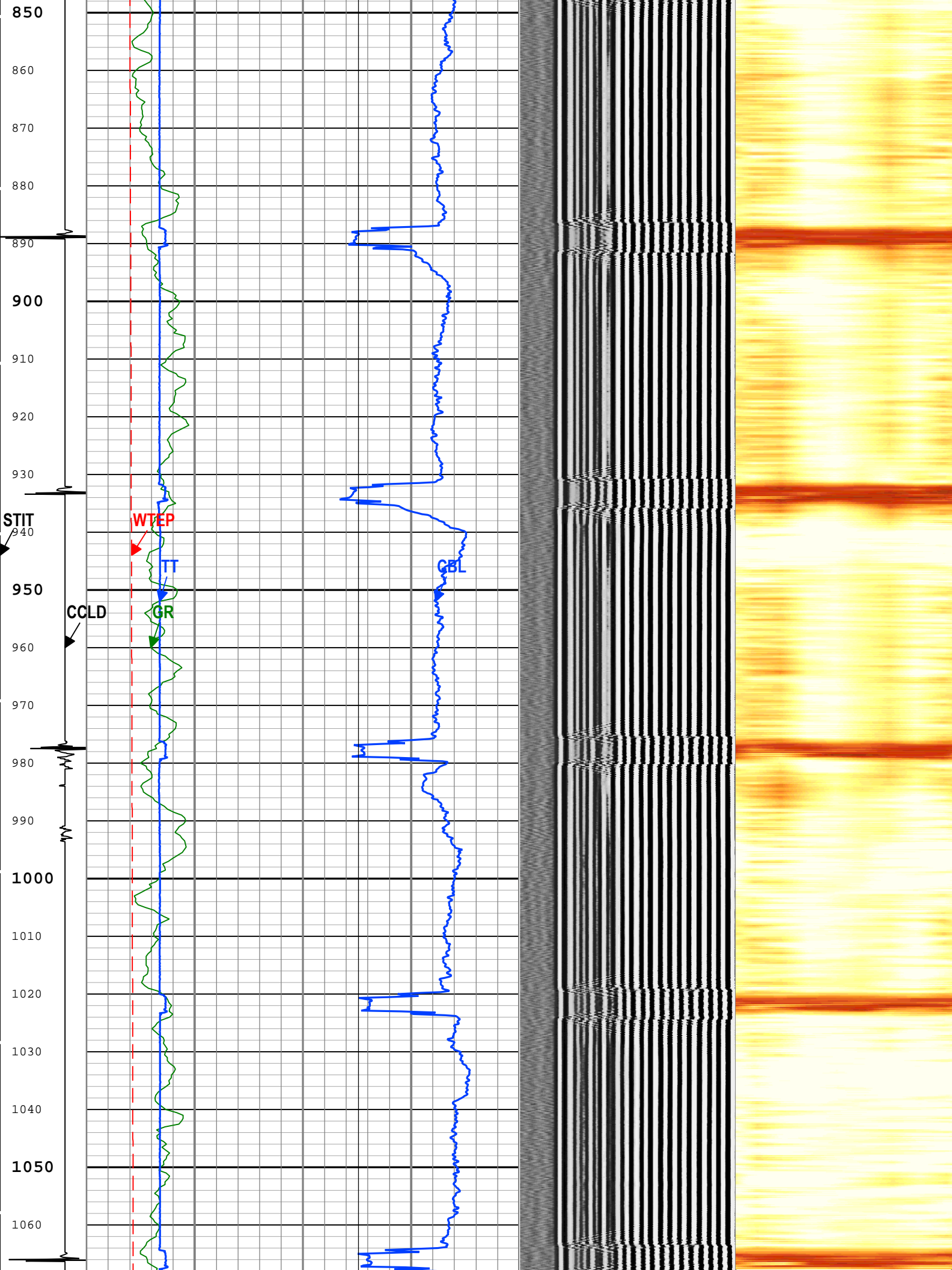
| Pass Summary                                 |                |           |           |            |                        |                        |          |             |                       |
|--|----------------|-----------|-----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| Run Name                                     | Pass Objective | Direction | Top       | Bottom     | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
| Run 1  | Main[3]:Up     | Up        | 503.53 ft | 6255.49 ft | 21-Jul-2015 9:45:48 PM | 22-Jul-2015 1:04:12 AM | ON       | 3.53 ft     | Yes                   |
| All depths are referenced to toolstring zero |                |           |           |            |                        |                        |          |             |                       |

| Log   | Company:Caerus Piceance LLC      Well:Puckett SWD H2-797<br>Run 1: Main[3]:Up:S008 |
|---|--|
| Description: SCMT VDL Image   Format: Log ( SCMT_VDL_Image_1 )   Index Scale: 5 in per 100 ft   Index Unit: ft   Index Type: Measured Depth   Creation Date: 03-Aug-2015 14:53:36 |  |

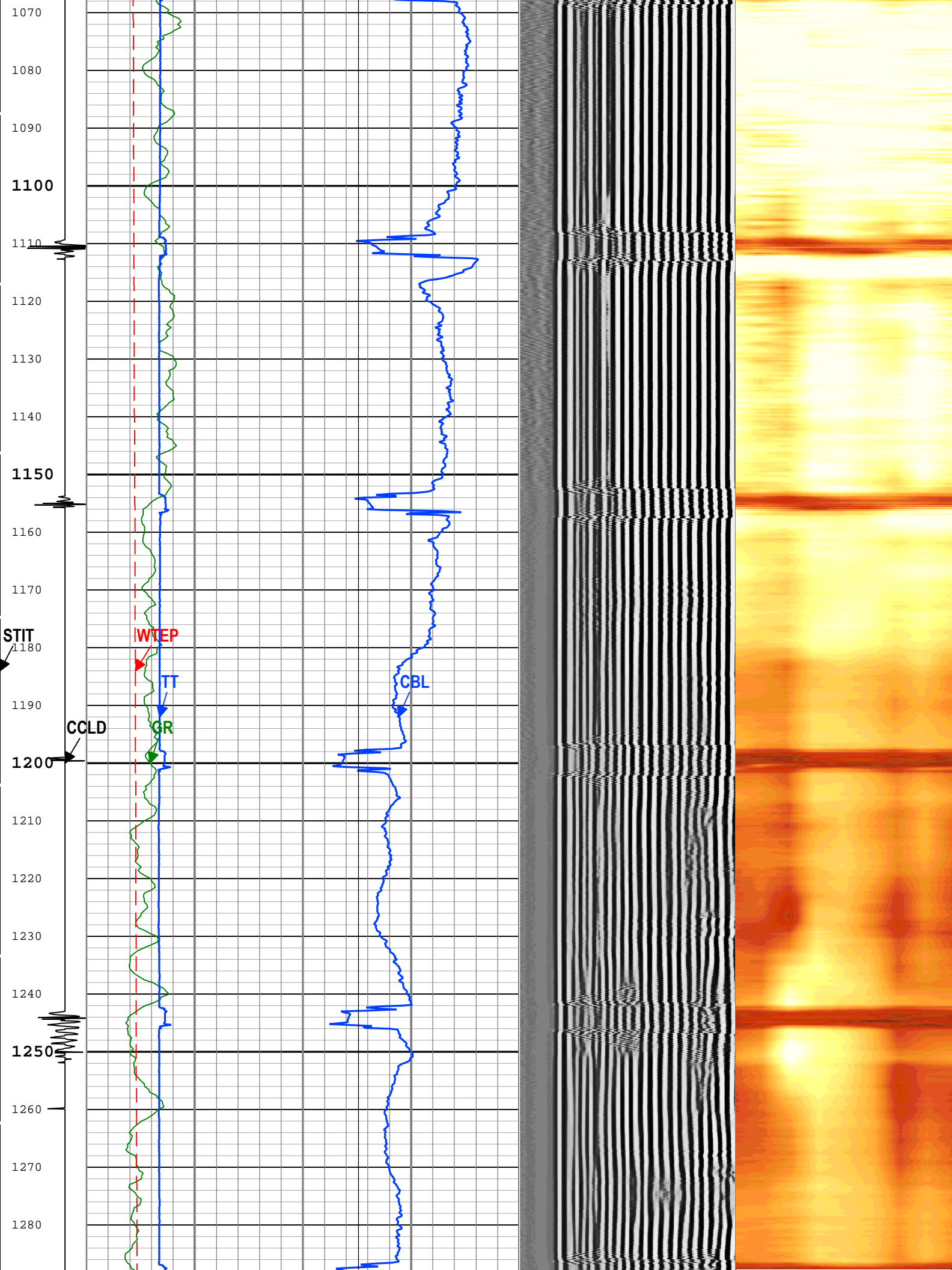
|   |  |
|---|--|
| TIME_1900 - Time Marked every 60.00 (s) |  |
| CCL Discriminated Amplitude (CCLD)      |  |

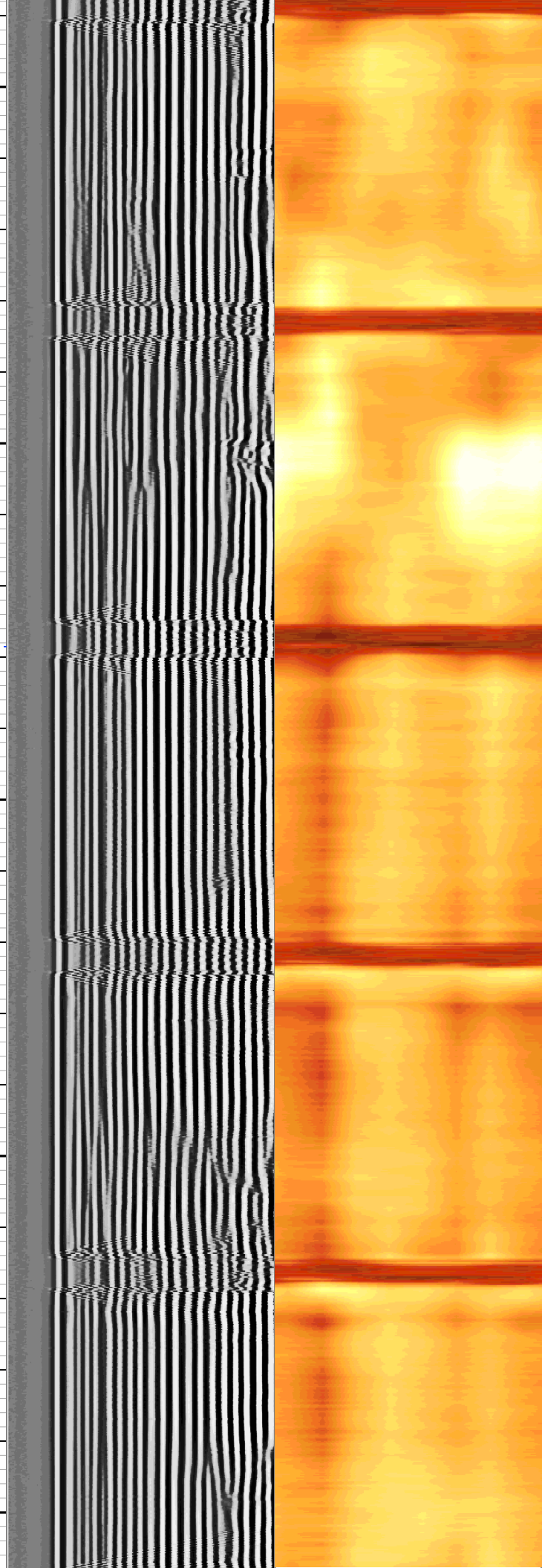
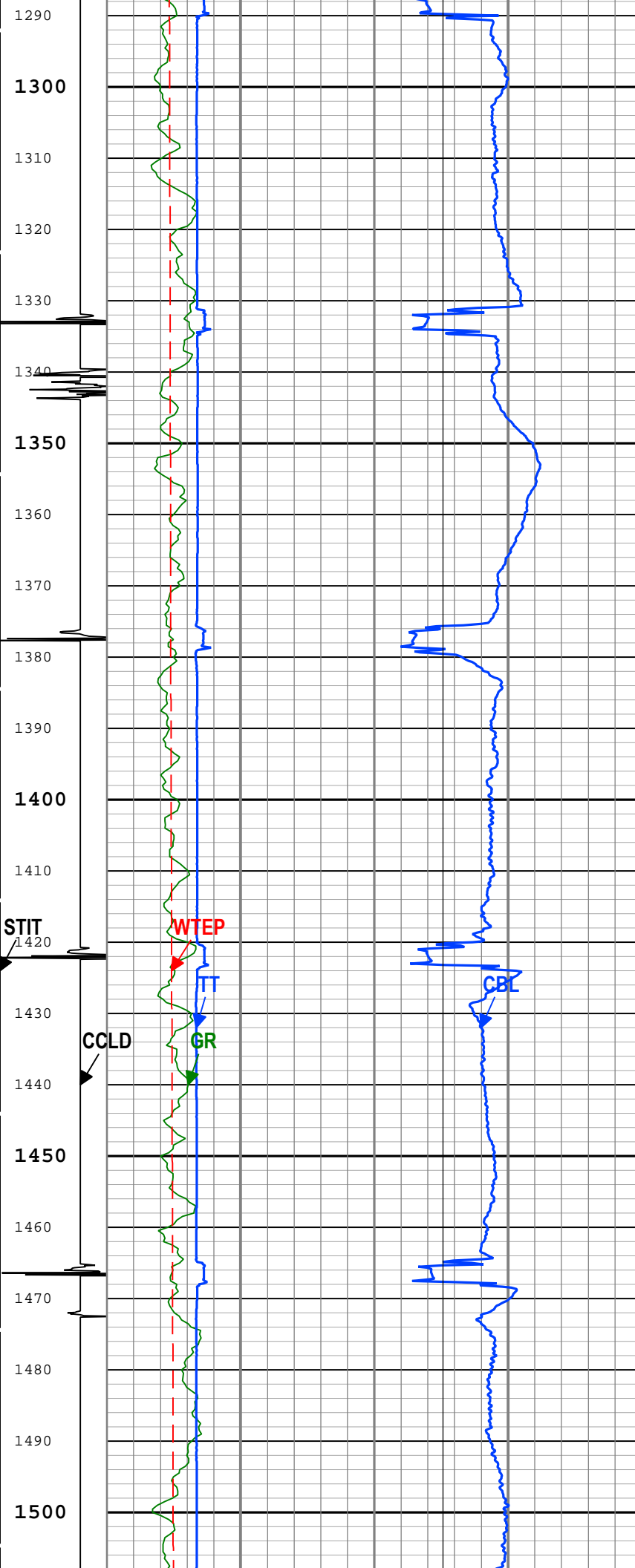


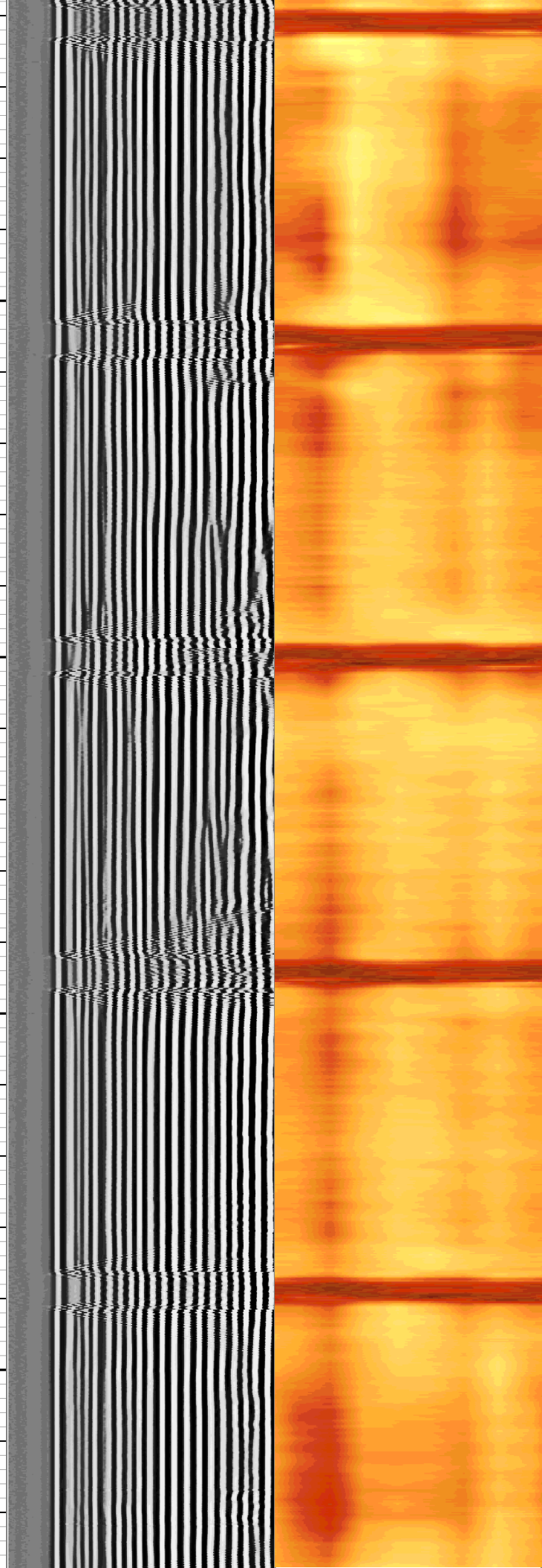
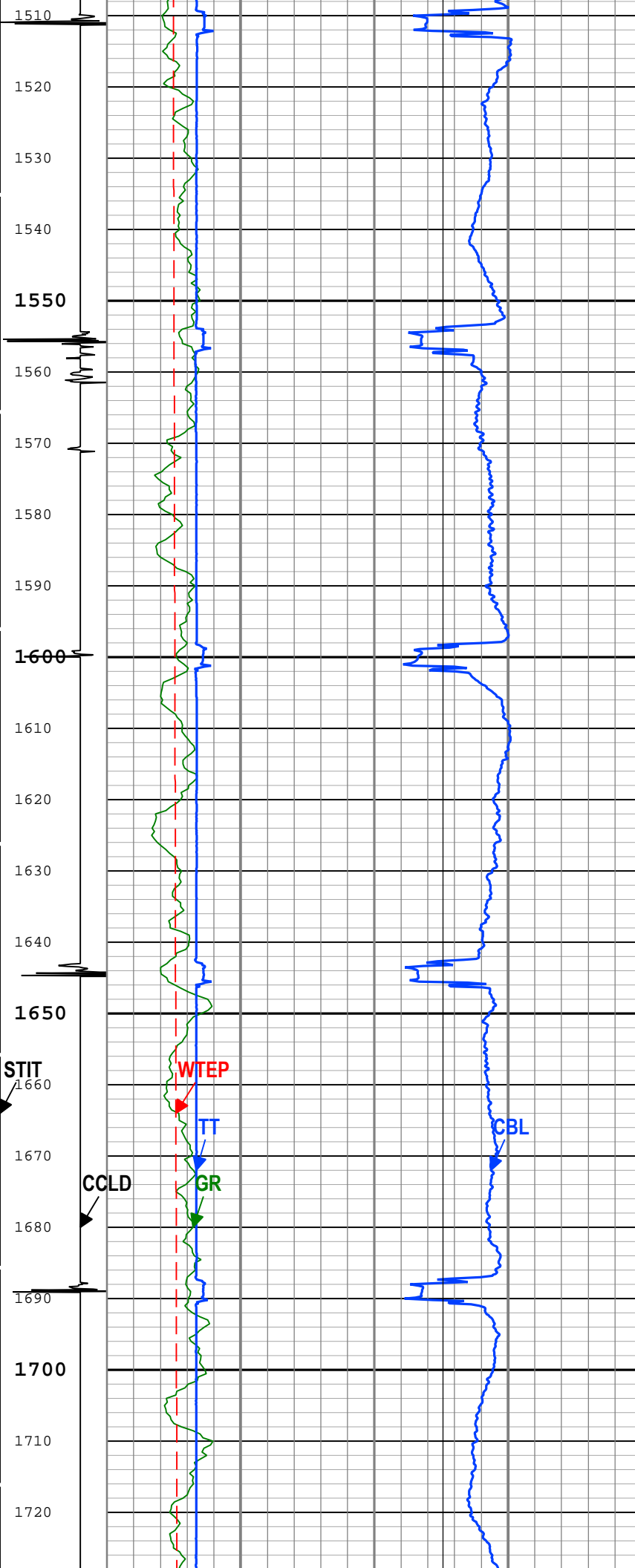




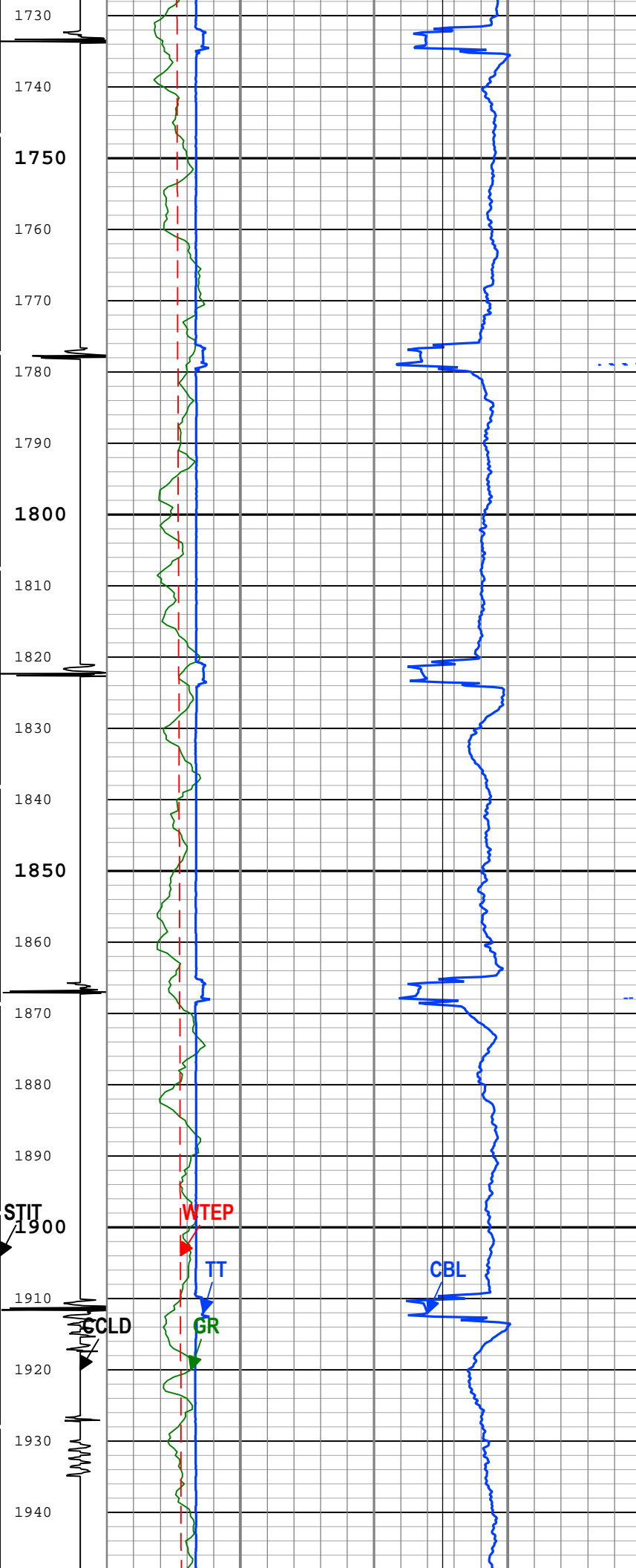


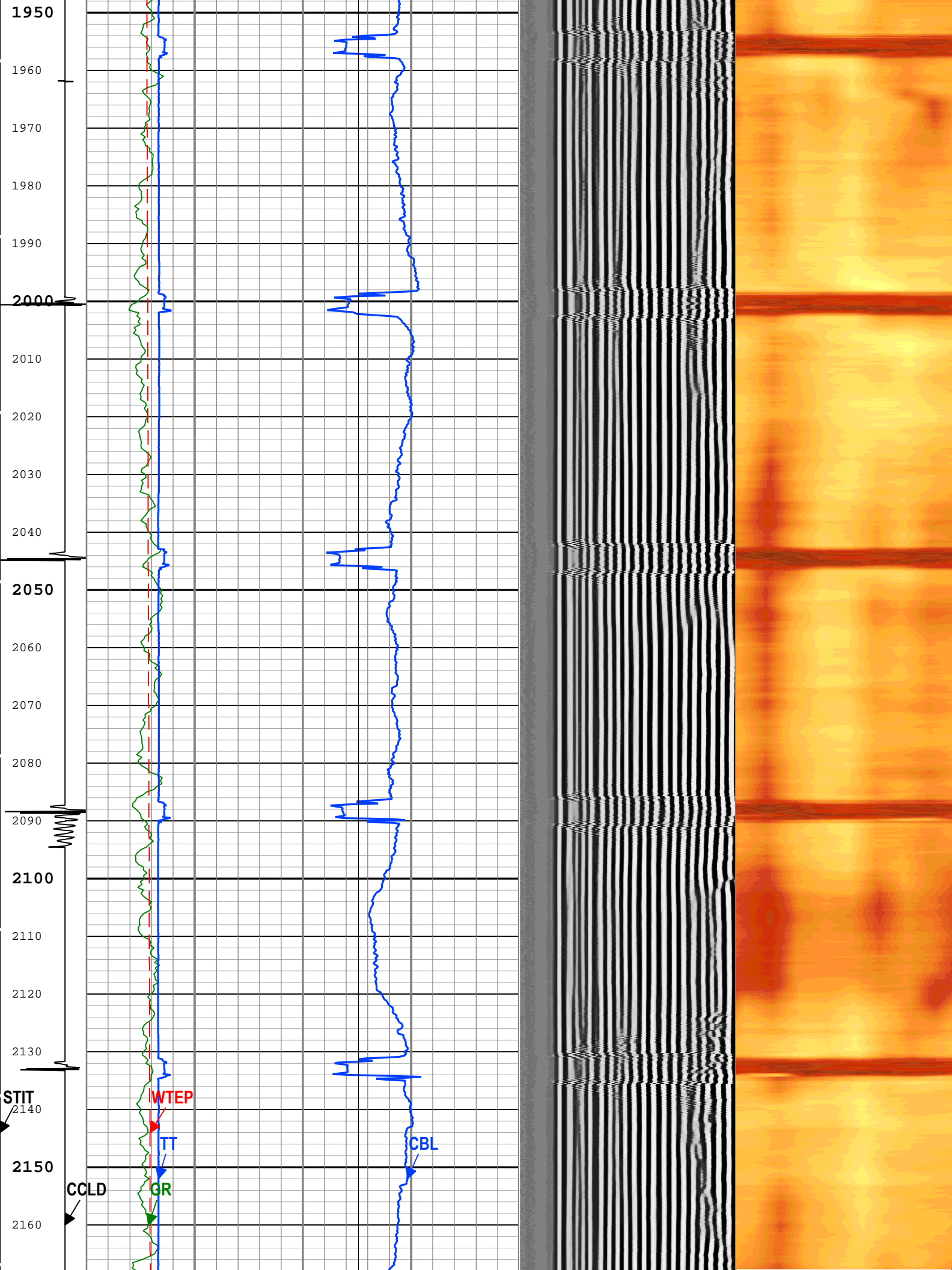


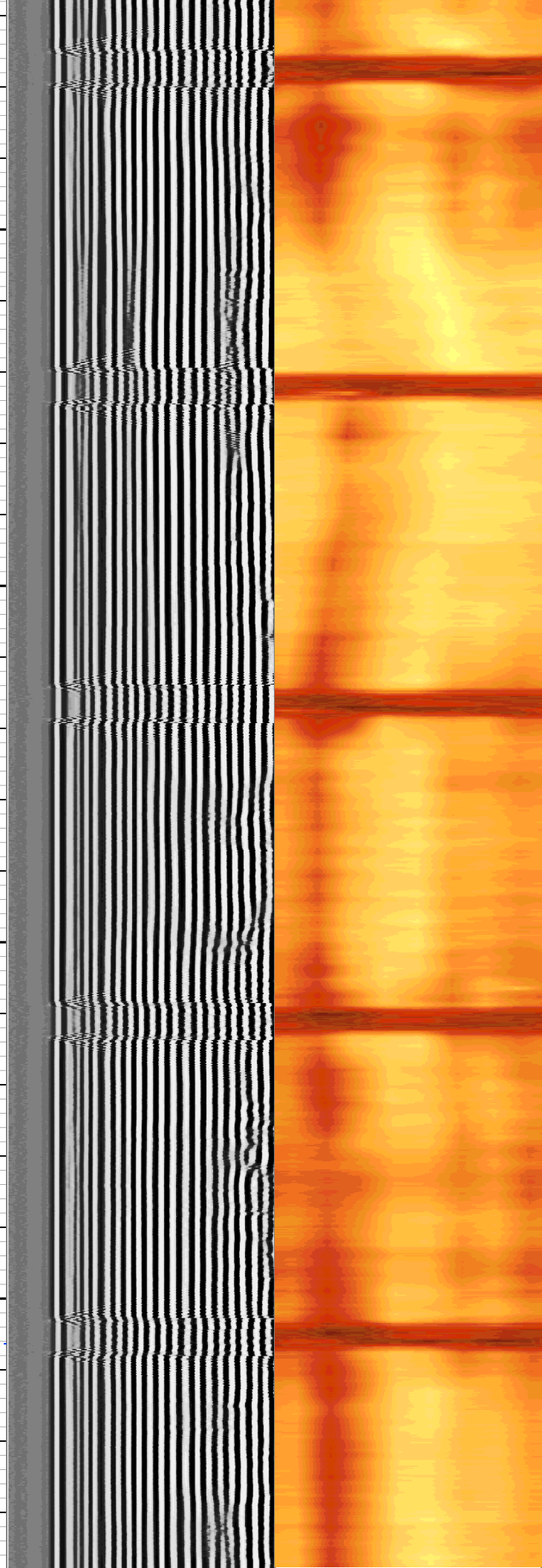
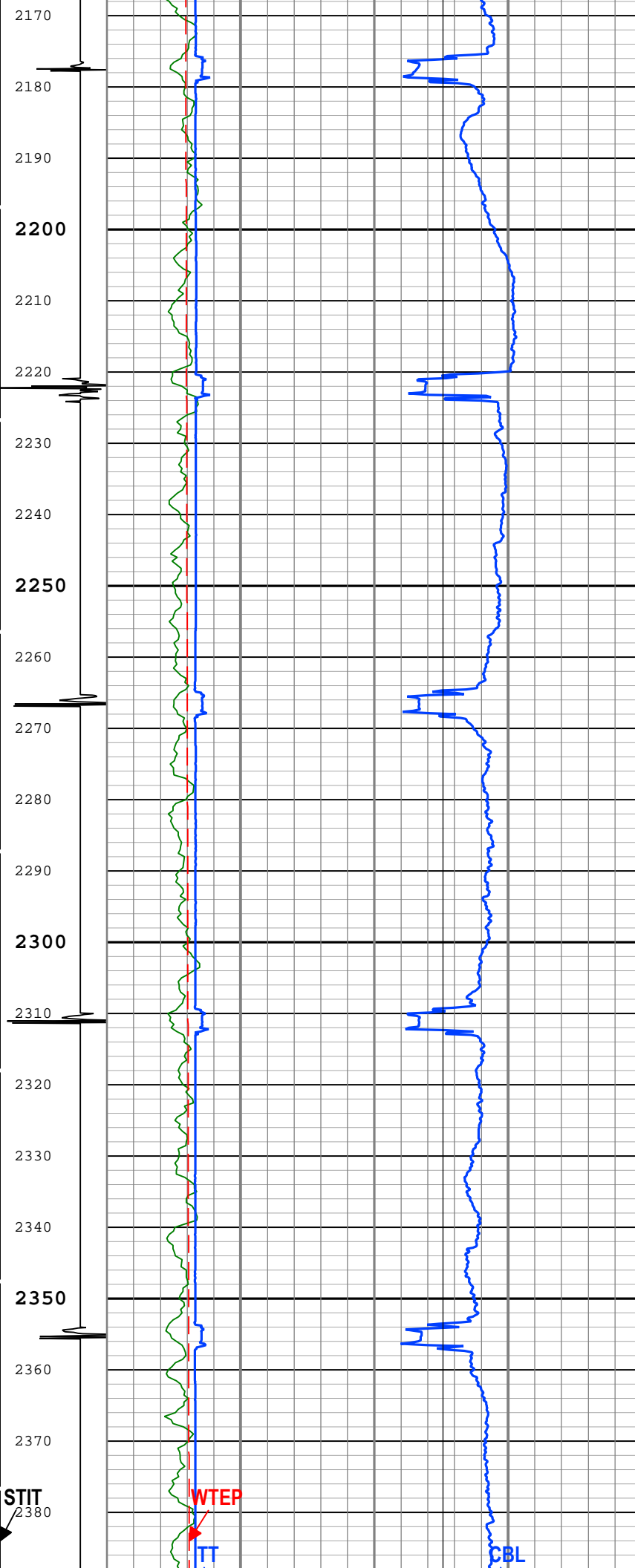




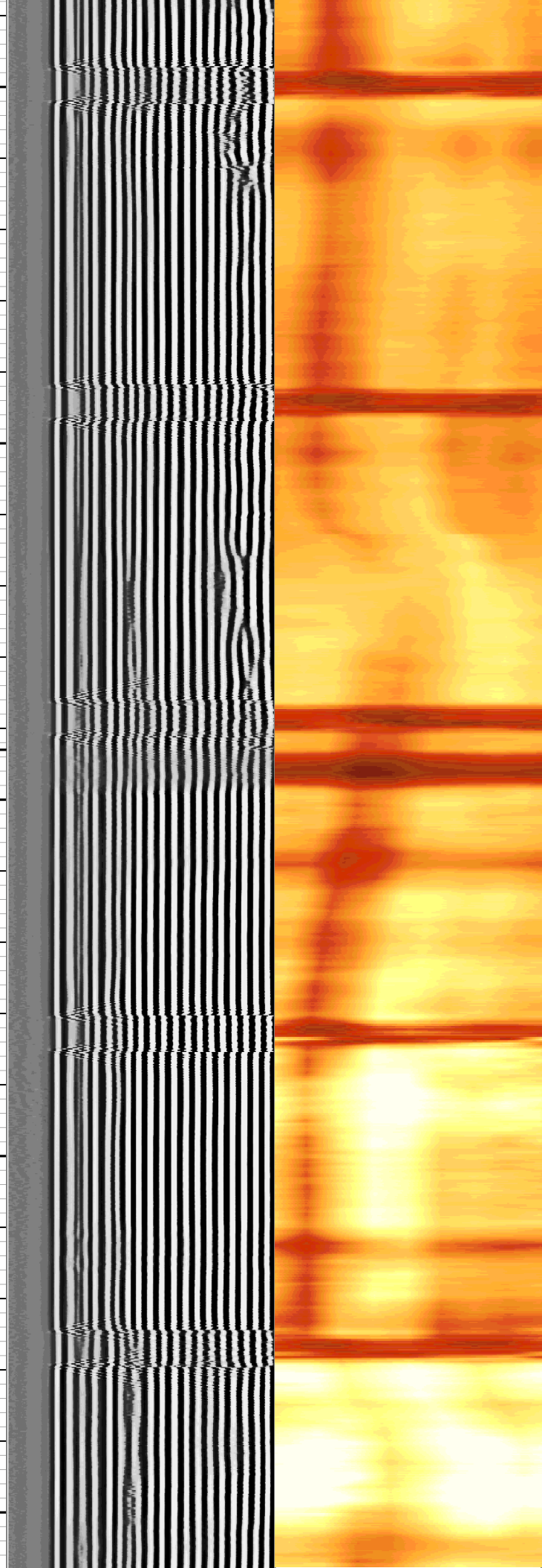
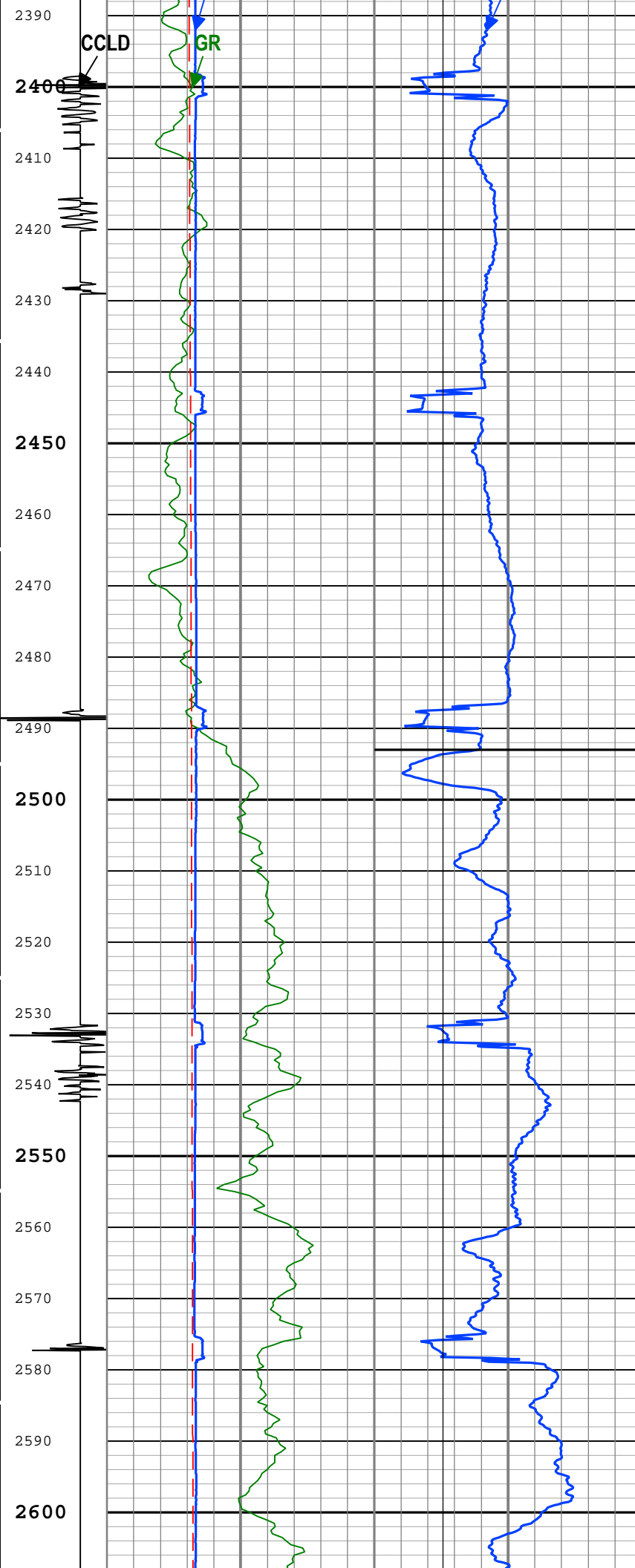


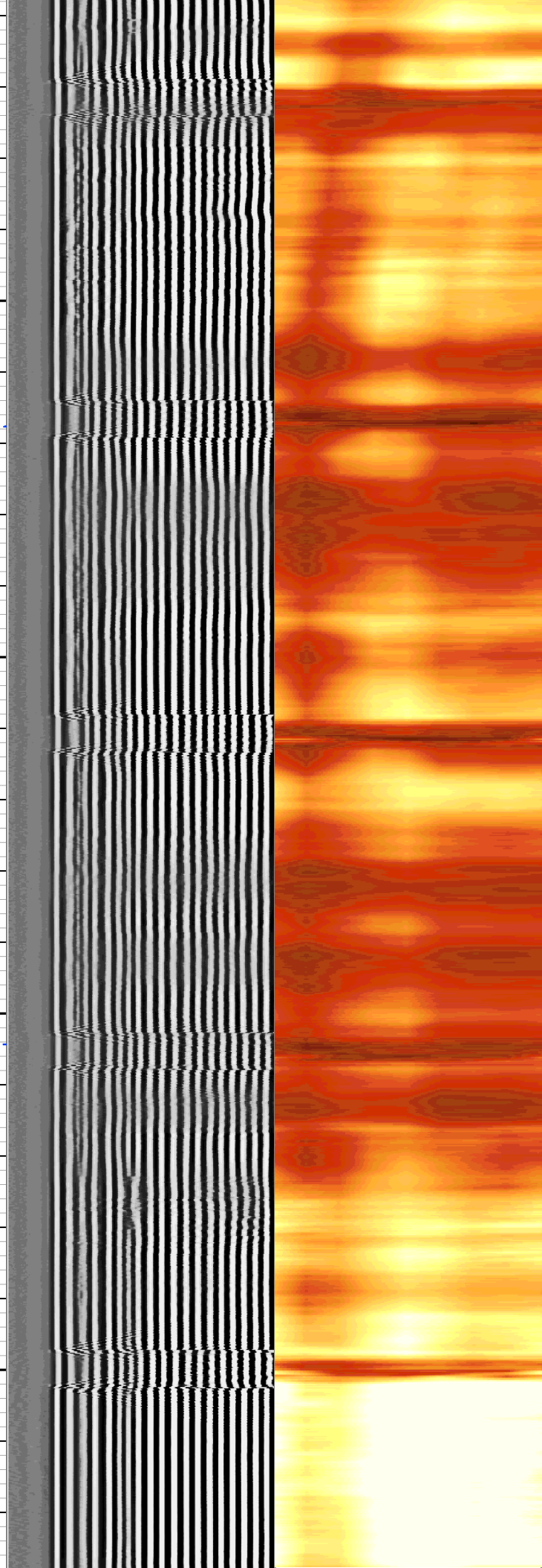
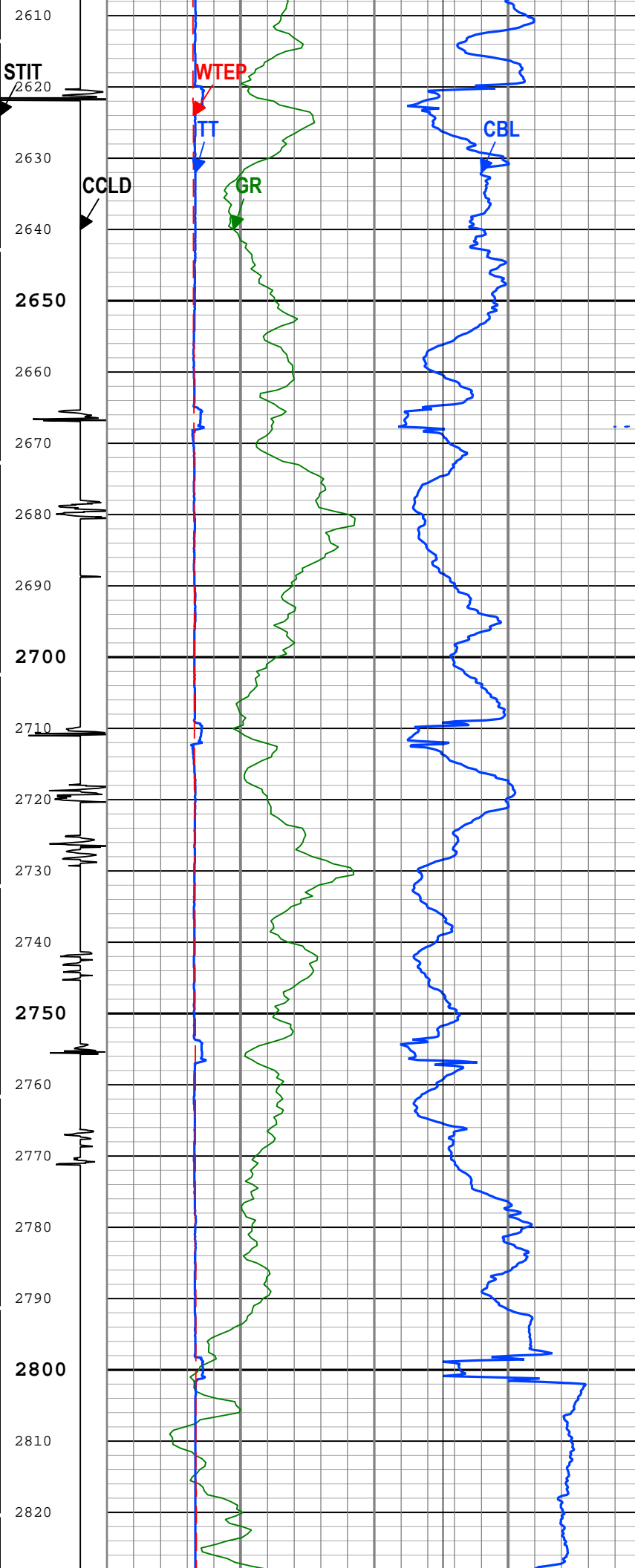


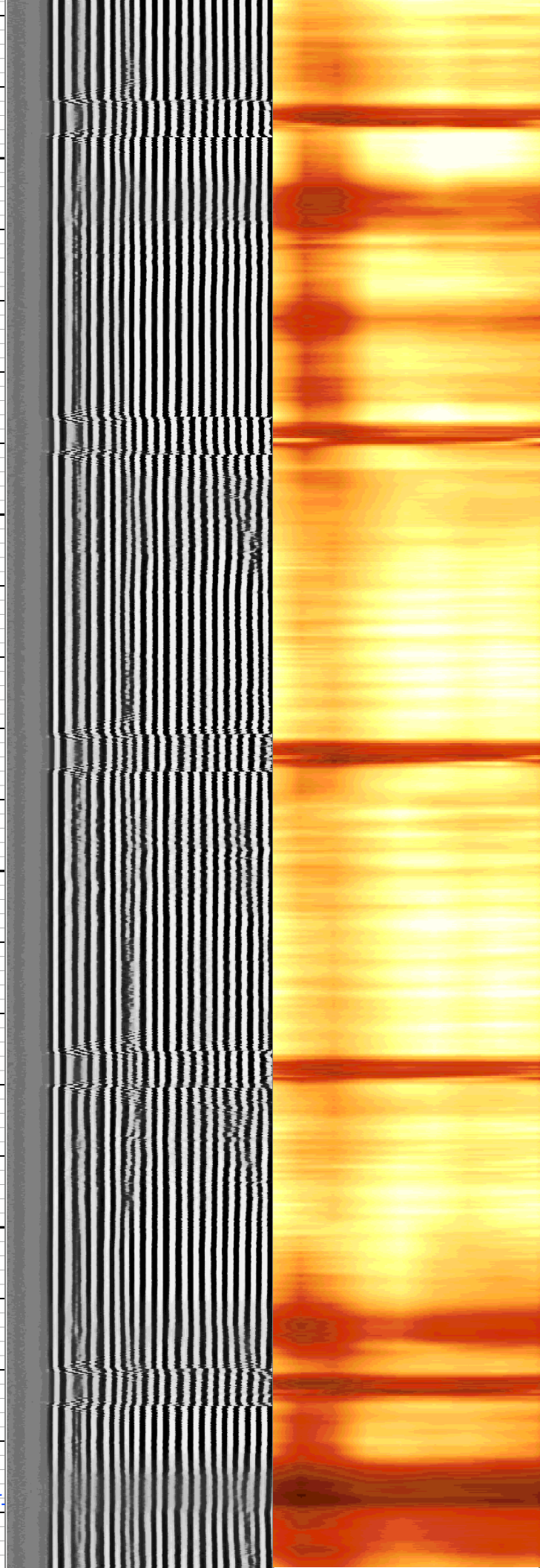
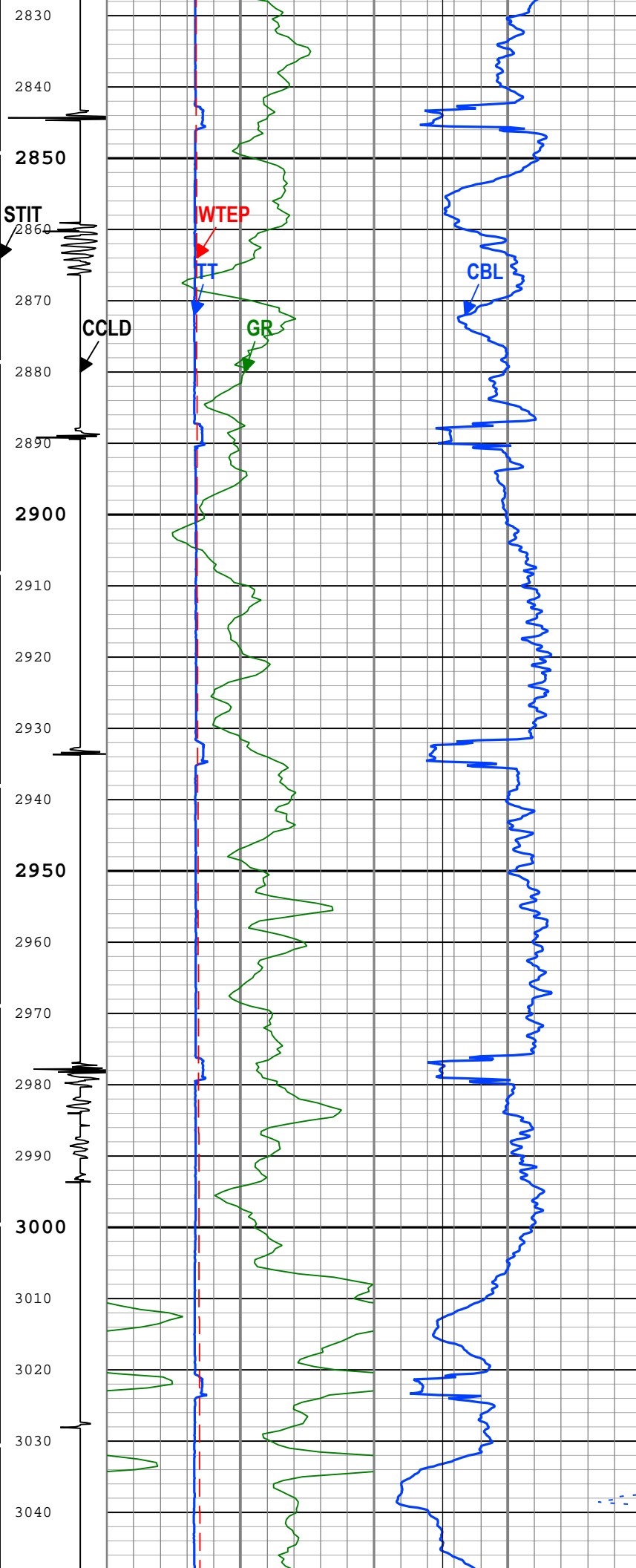




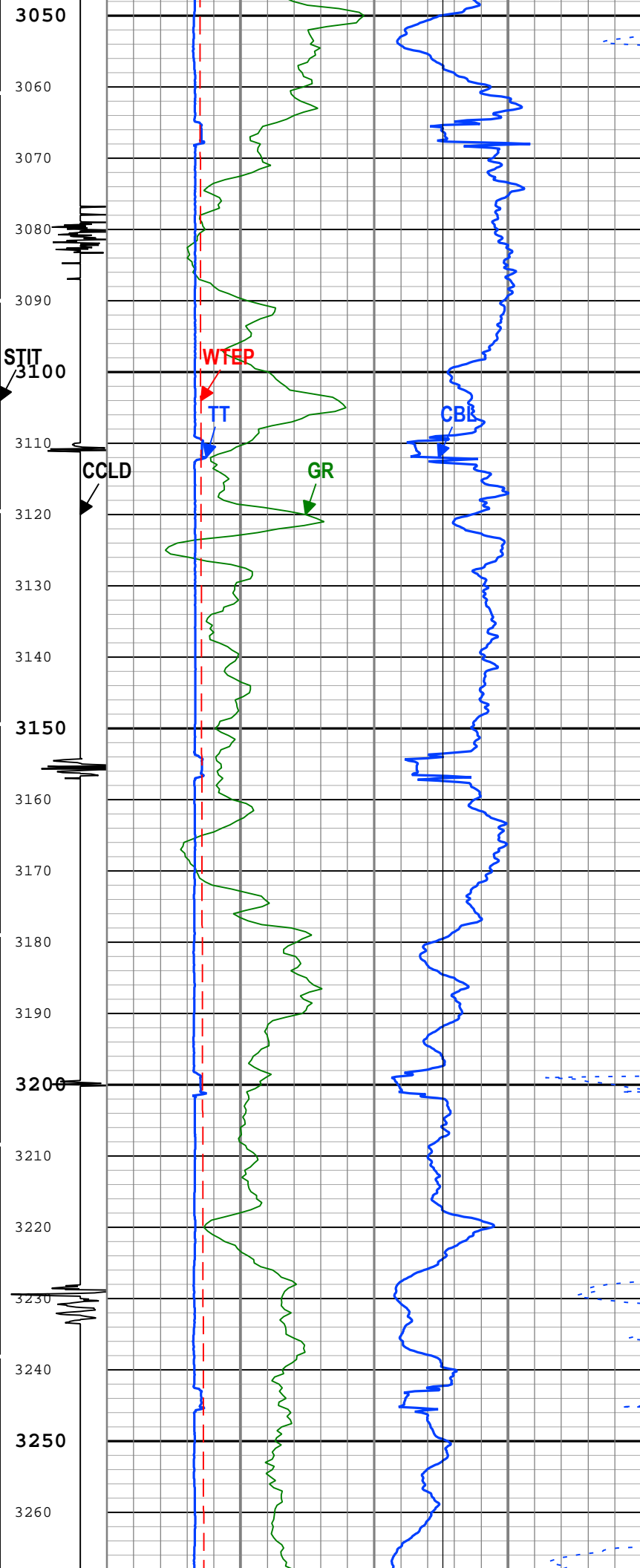


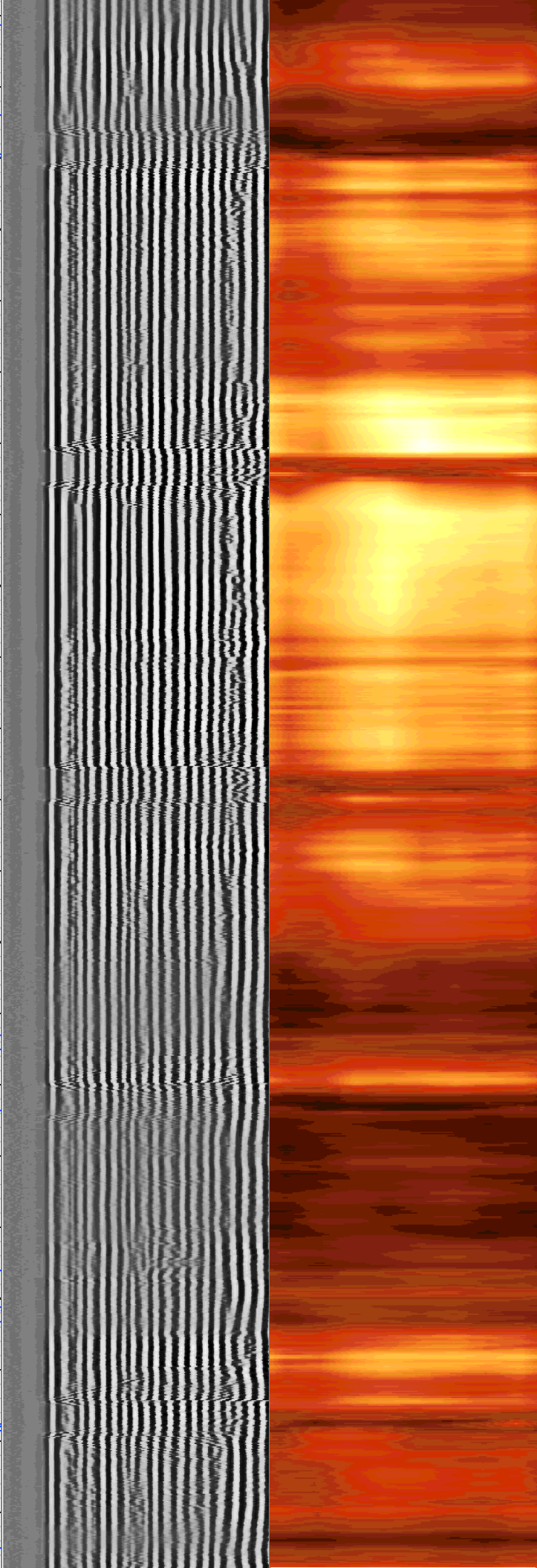
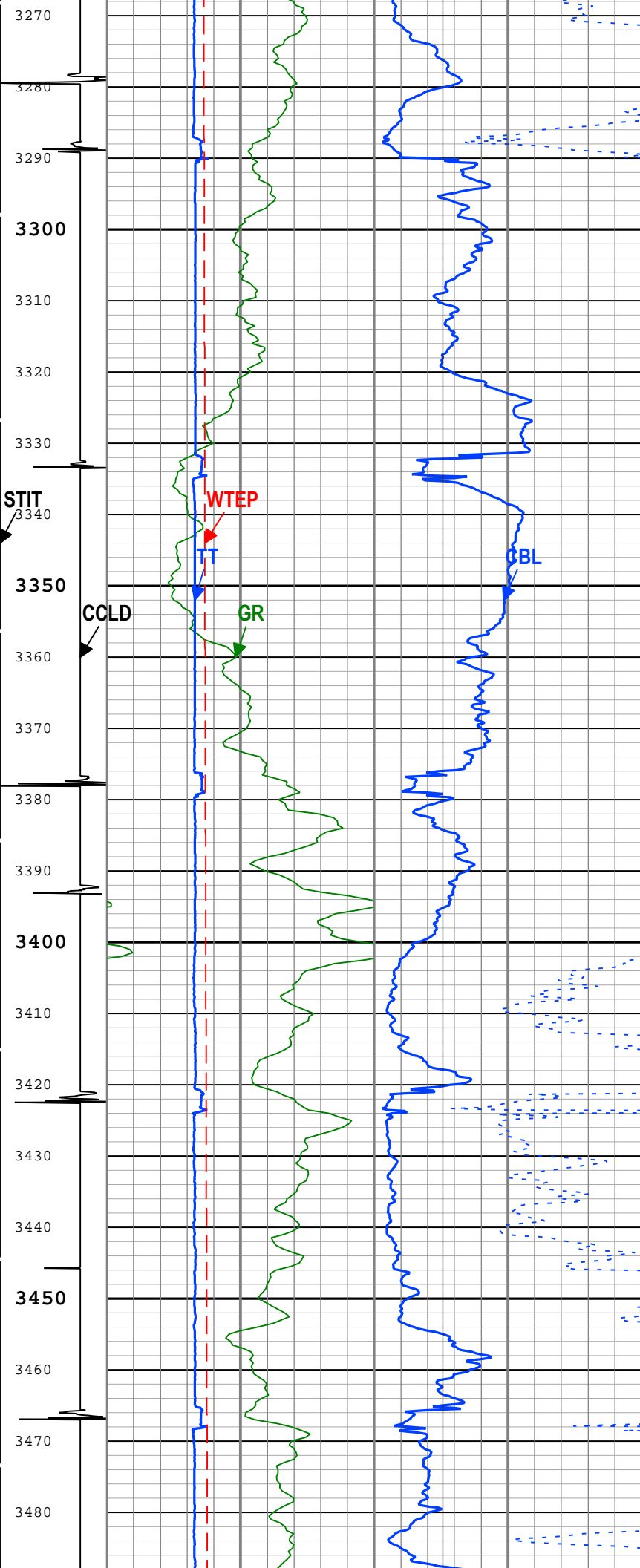




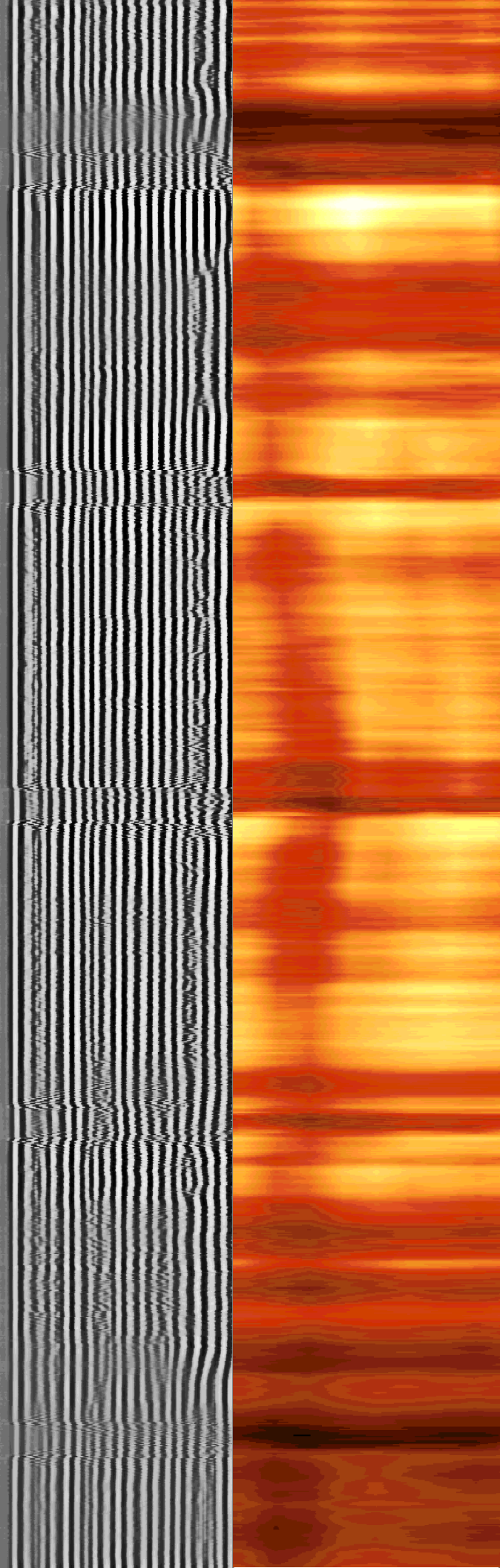
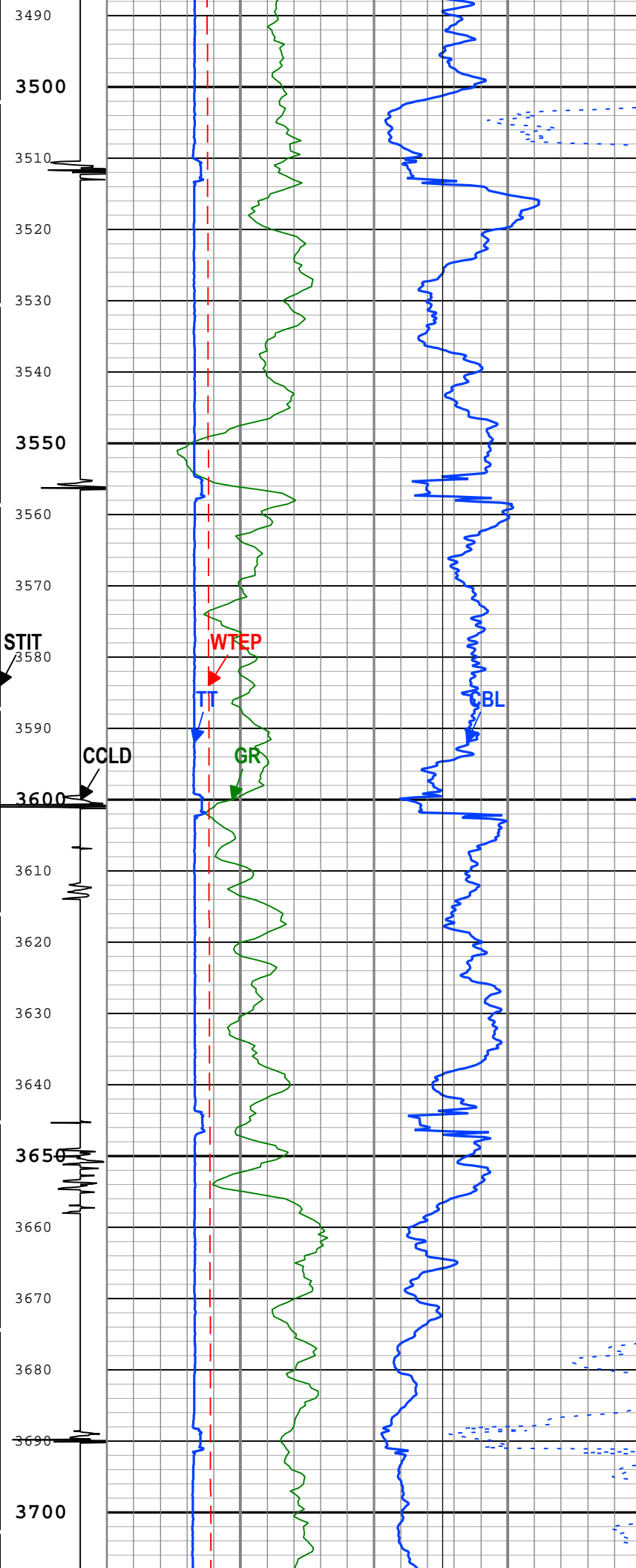


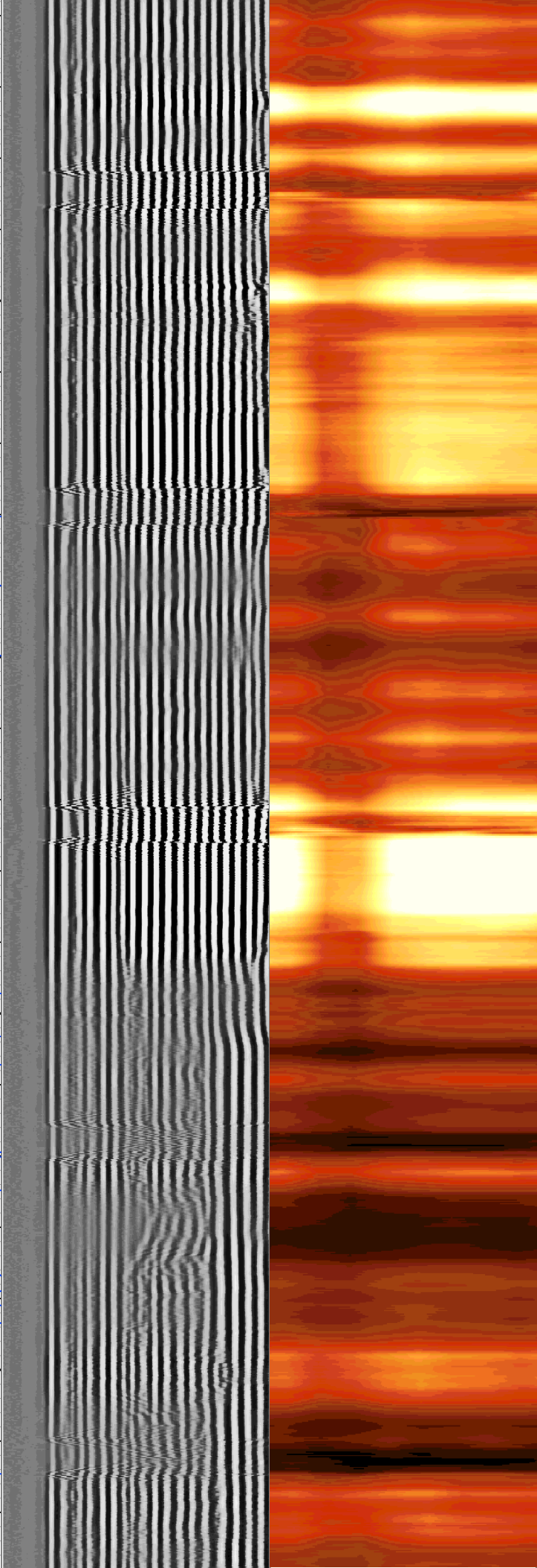
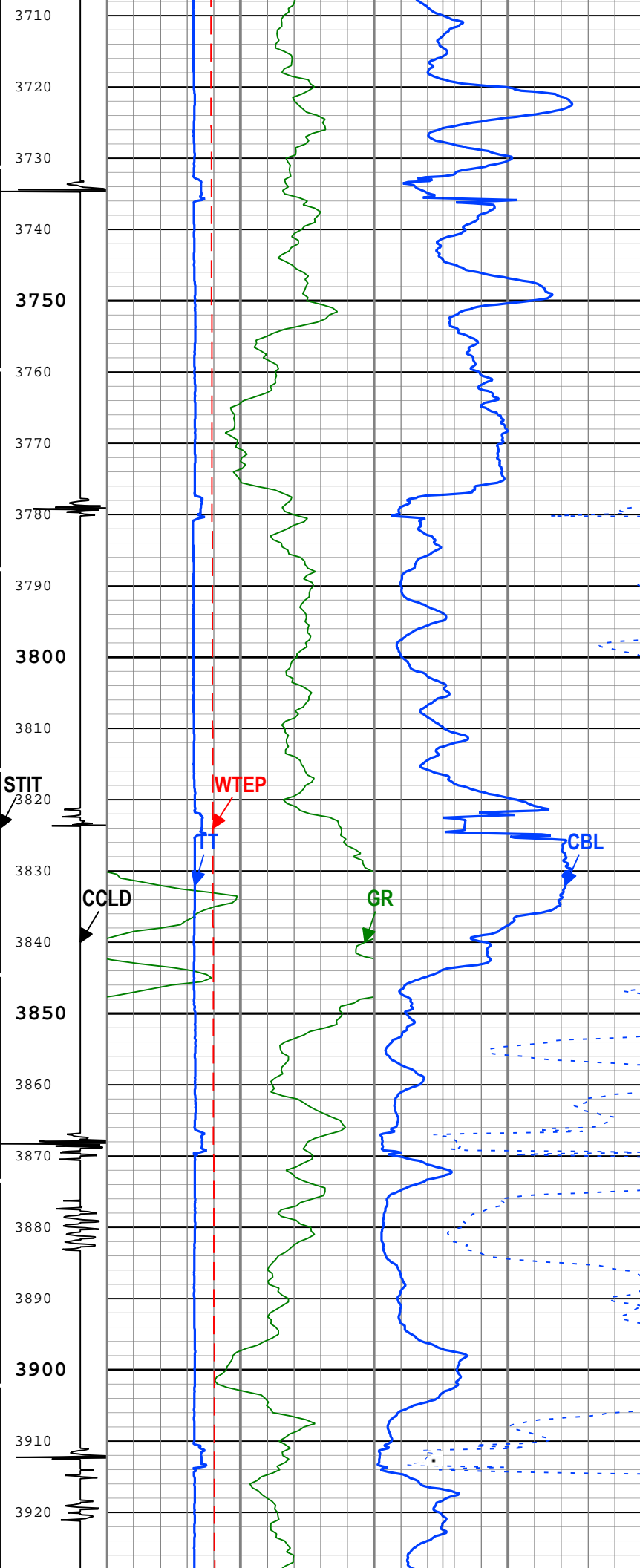


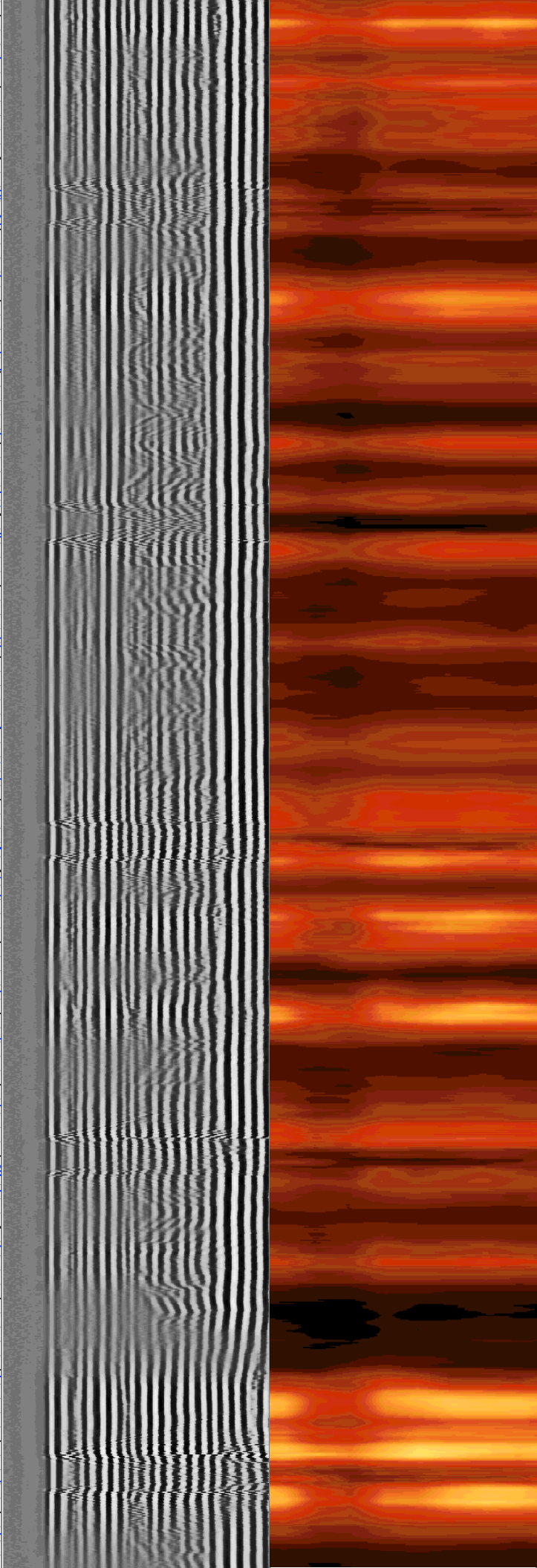
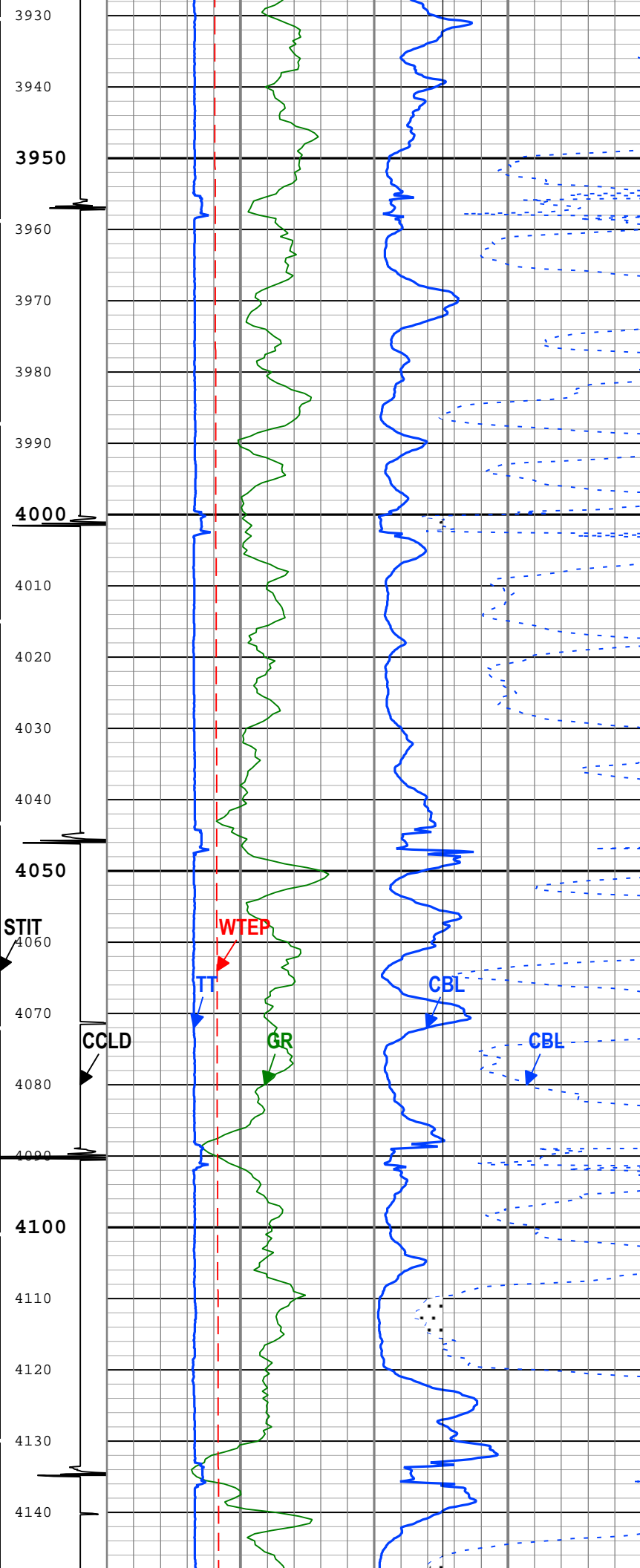




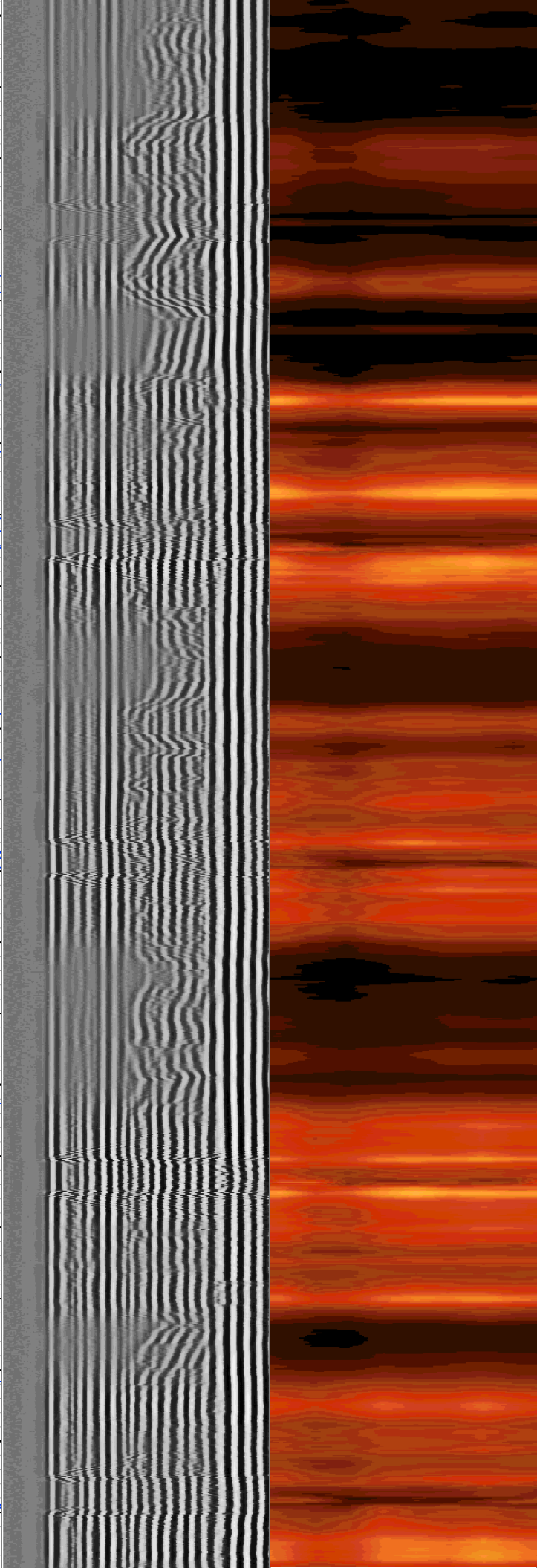
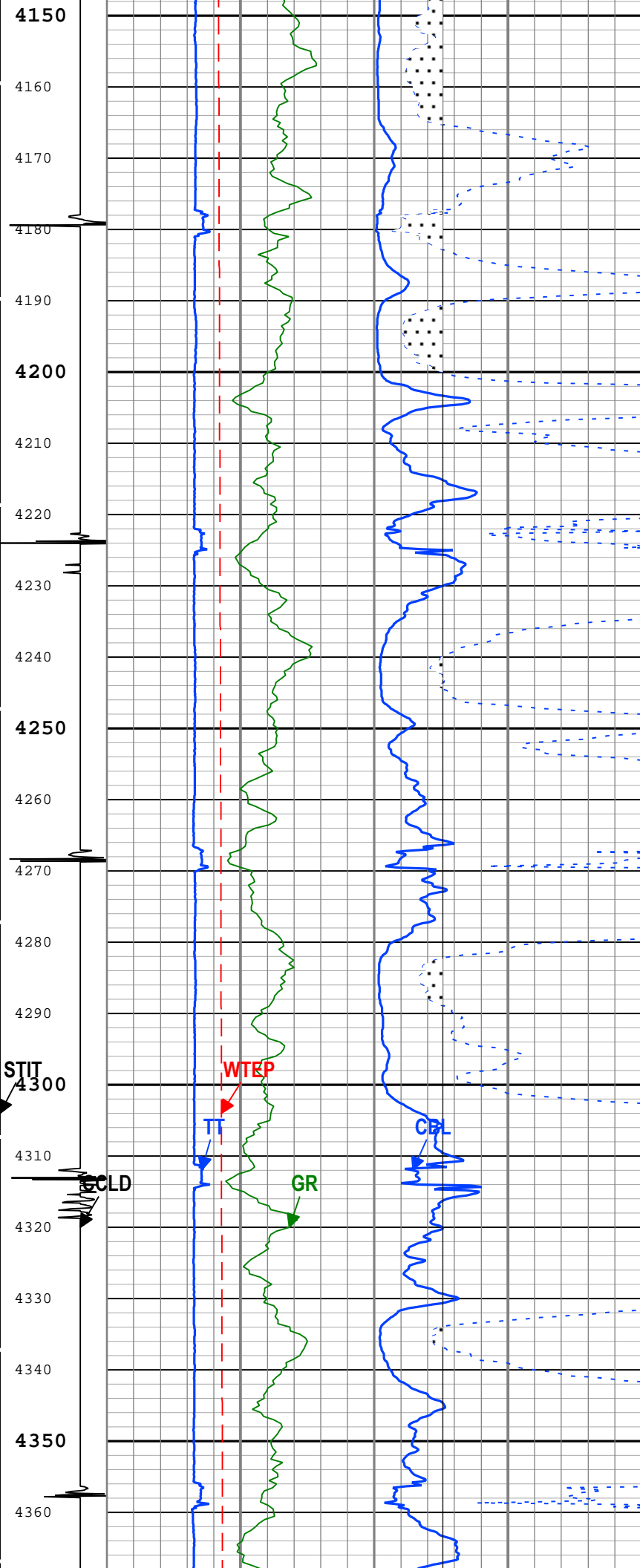


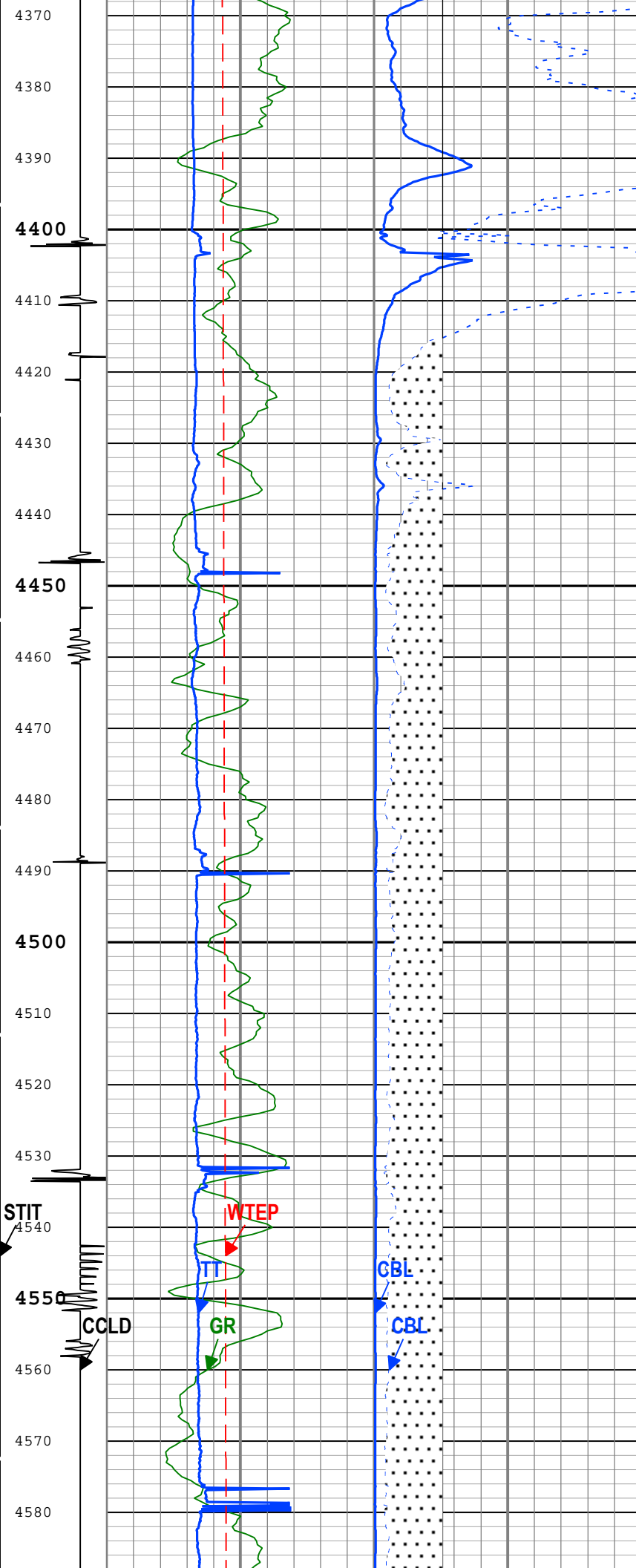


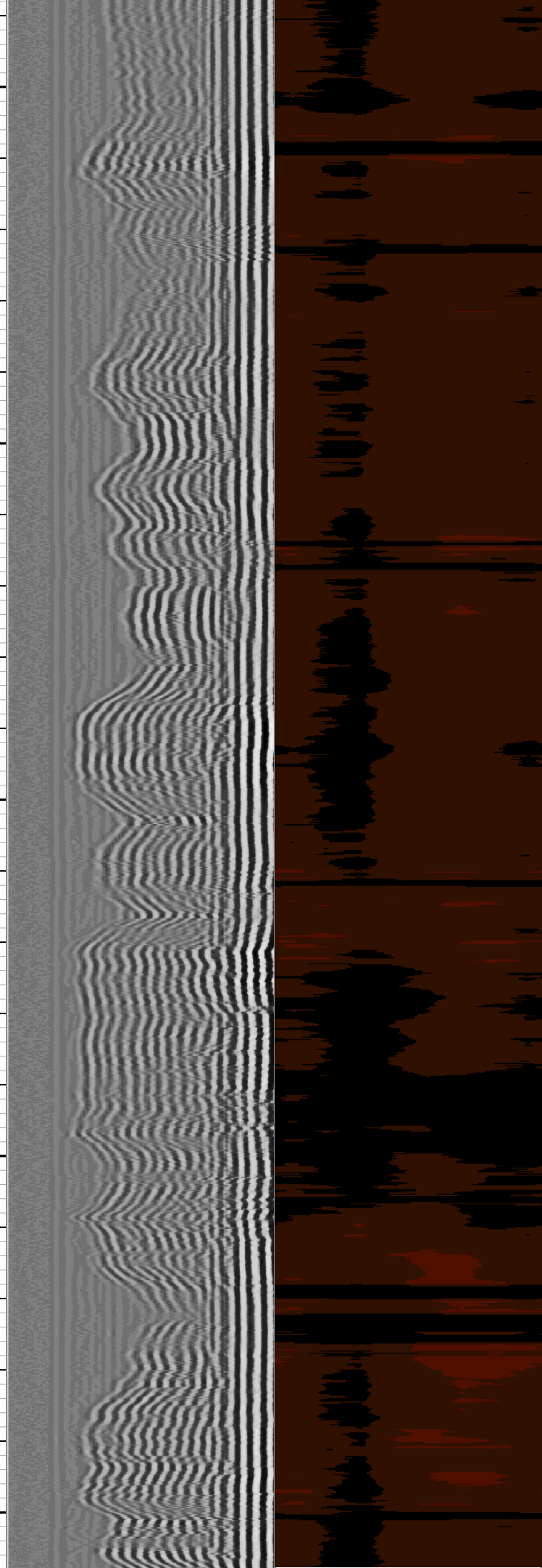
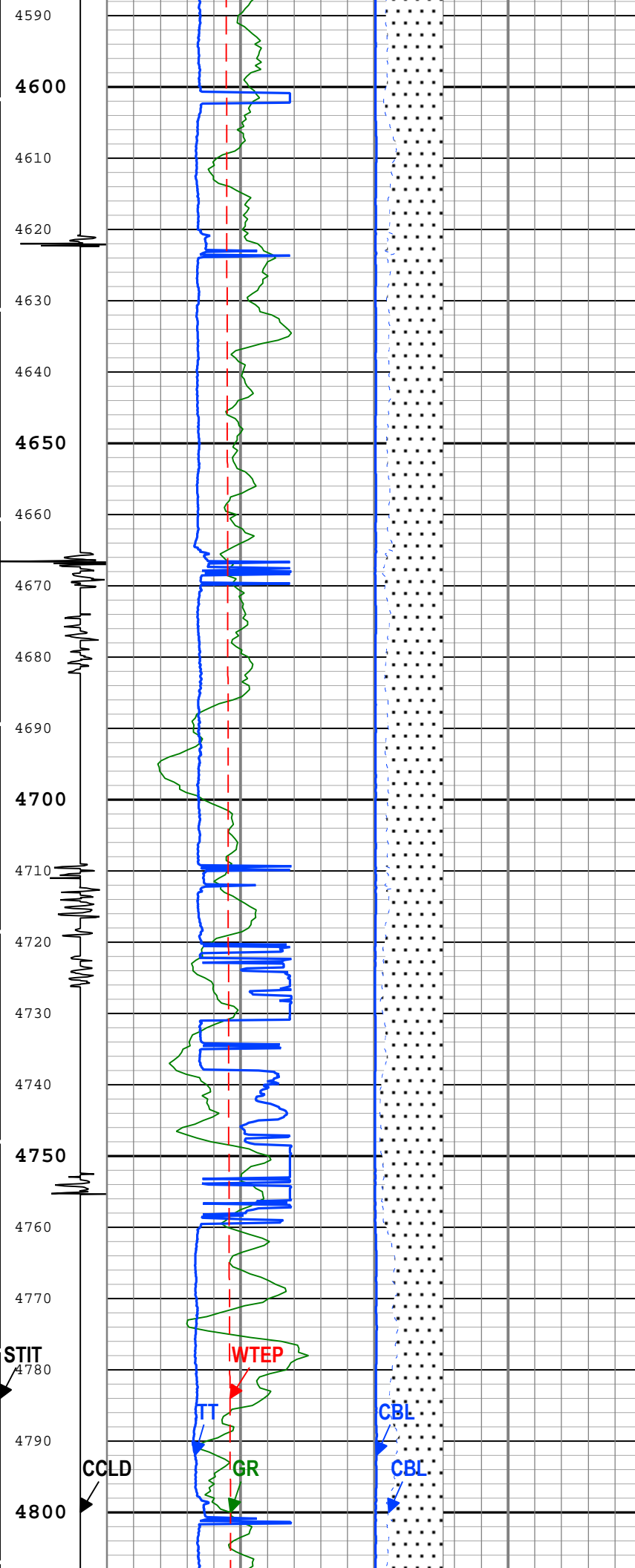




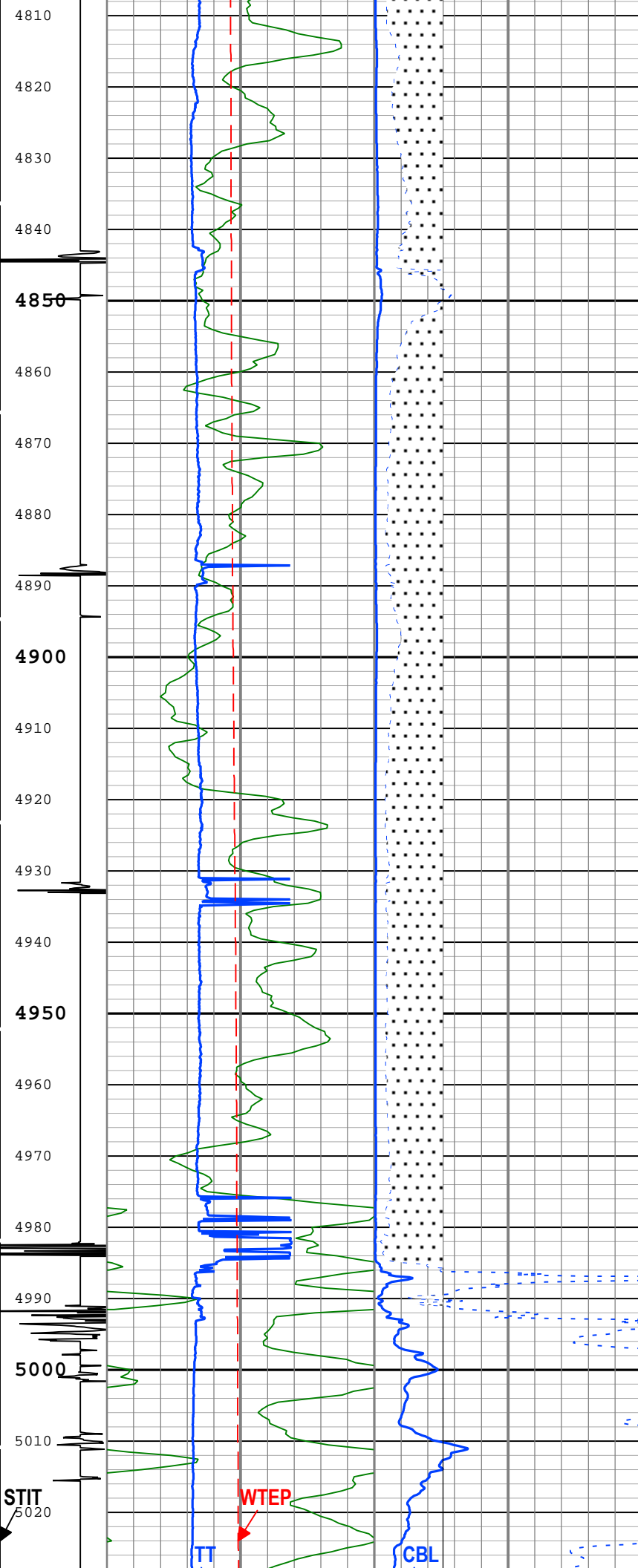


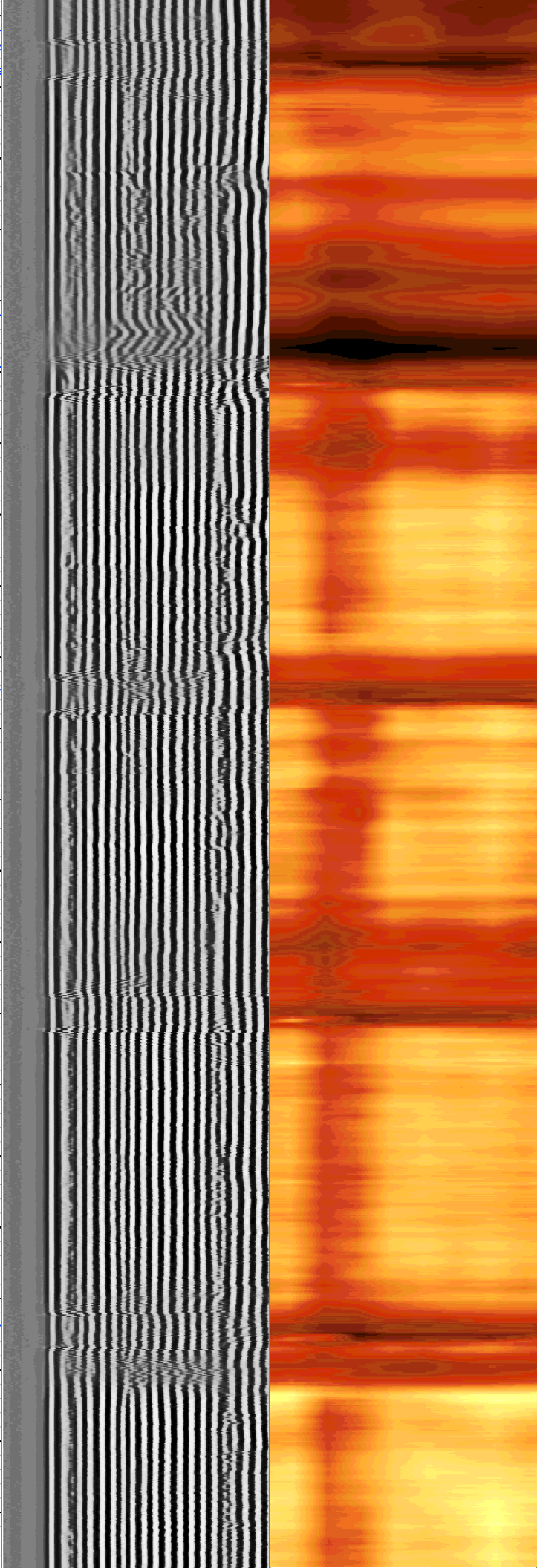
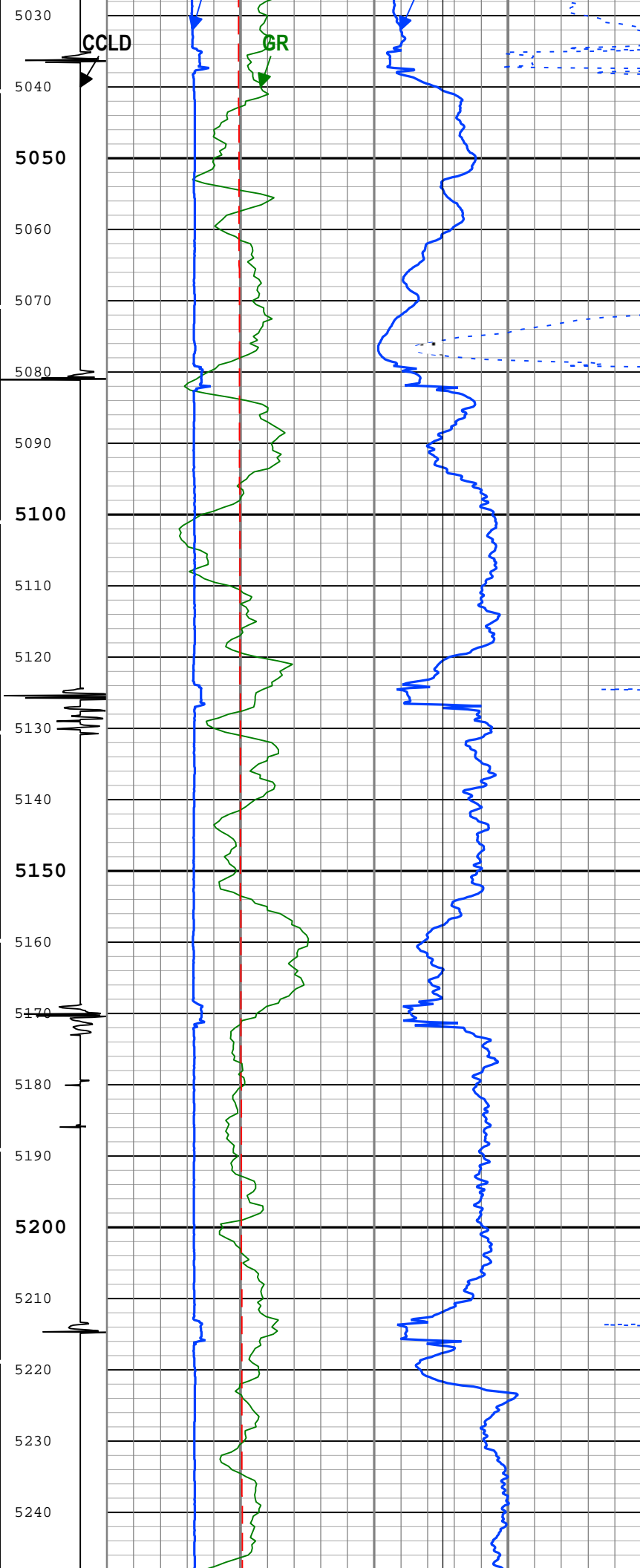




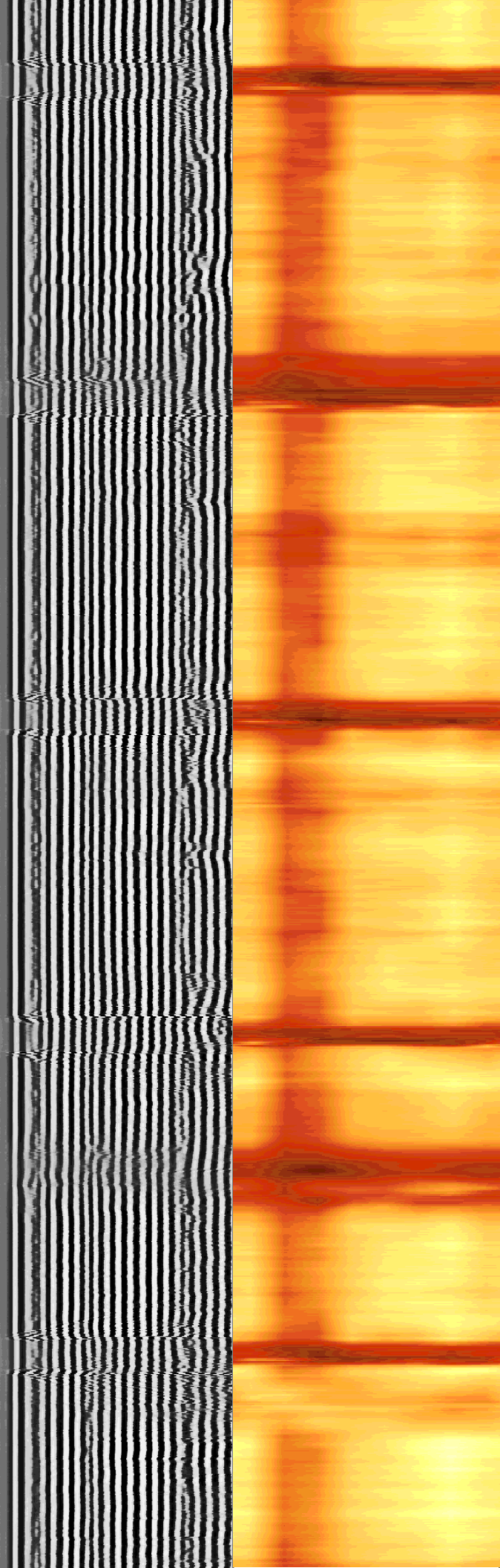
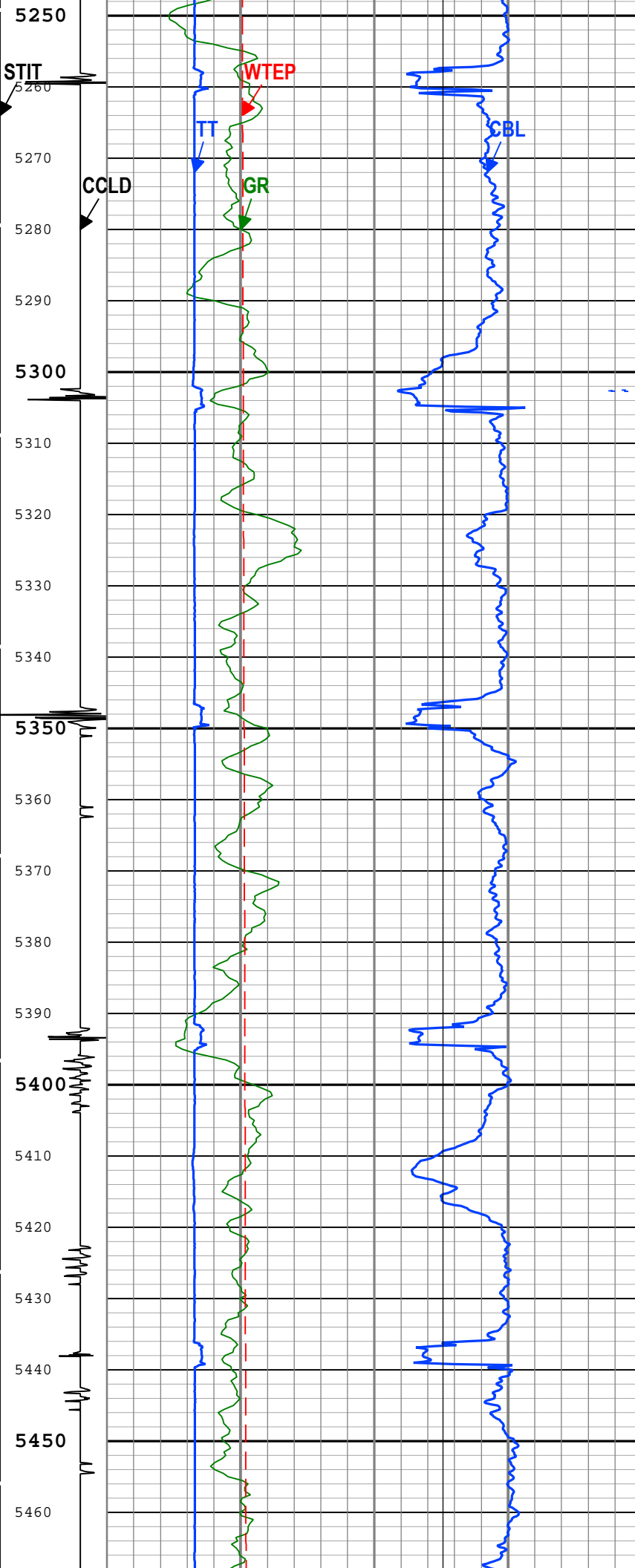


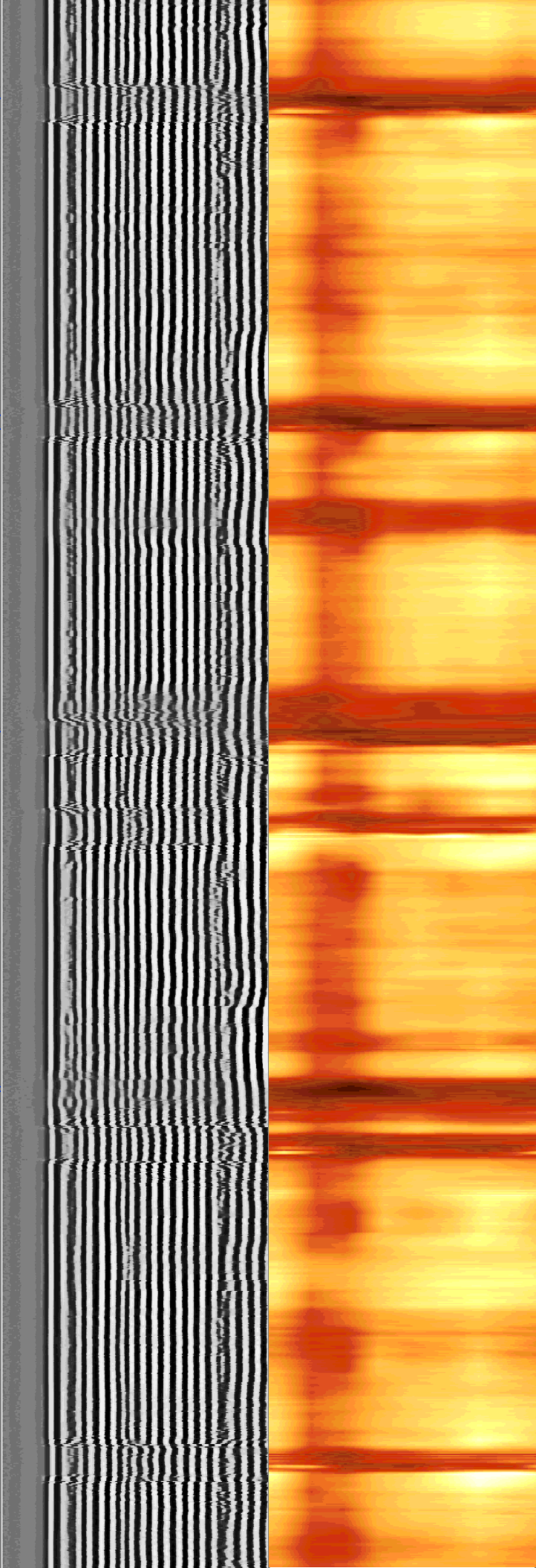
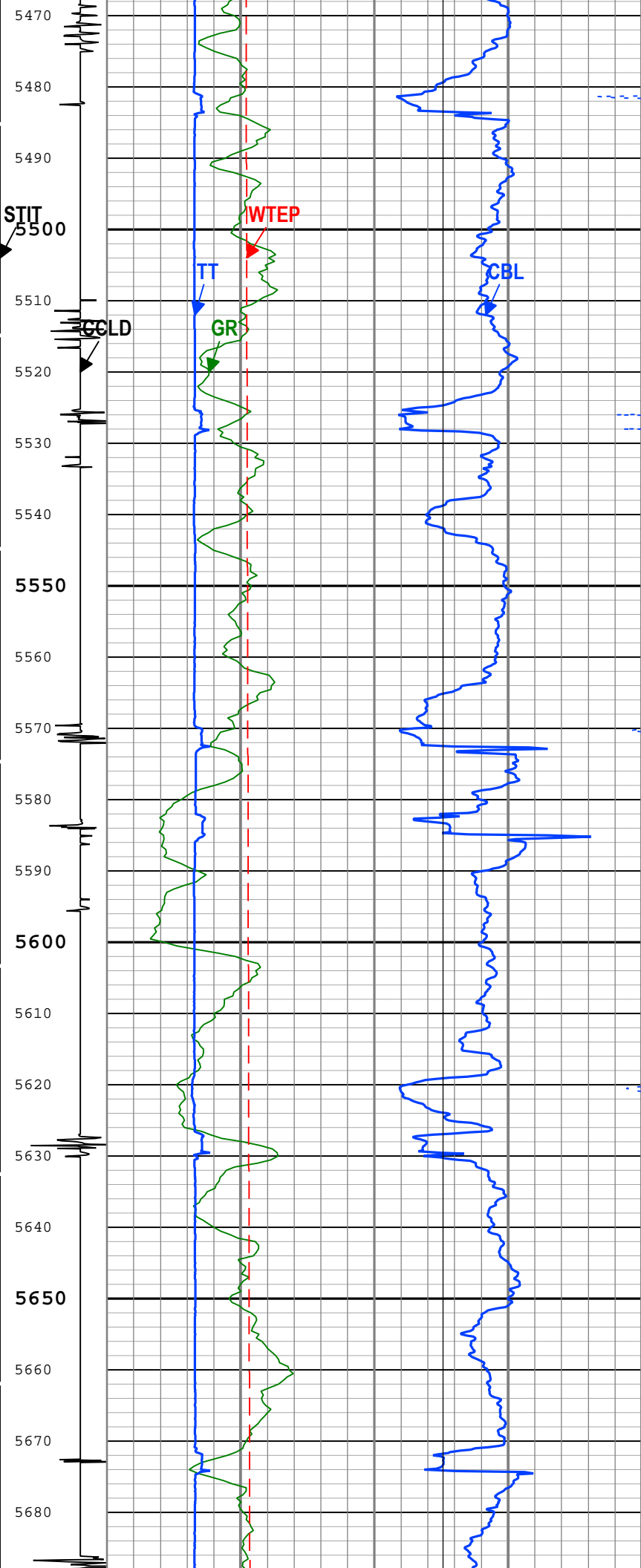


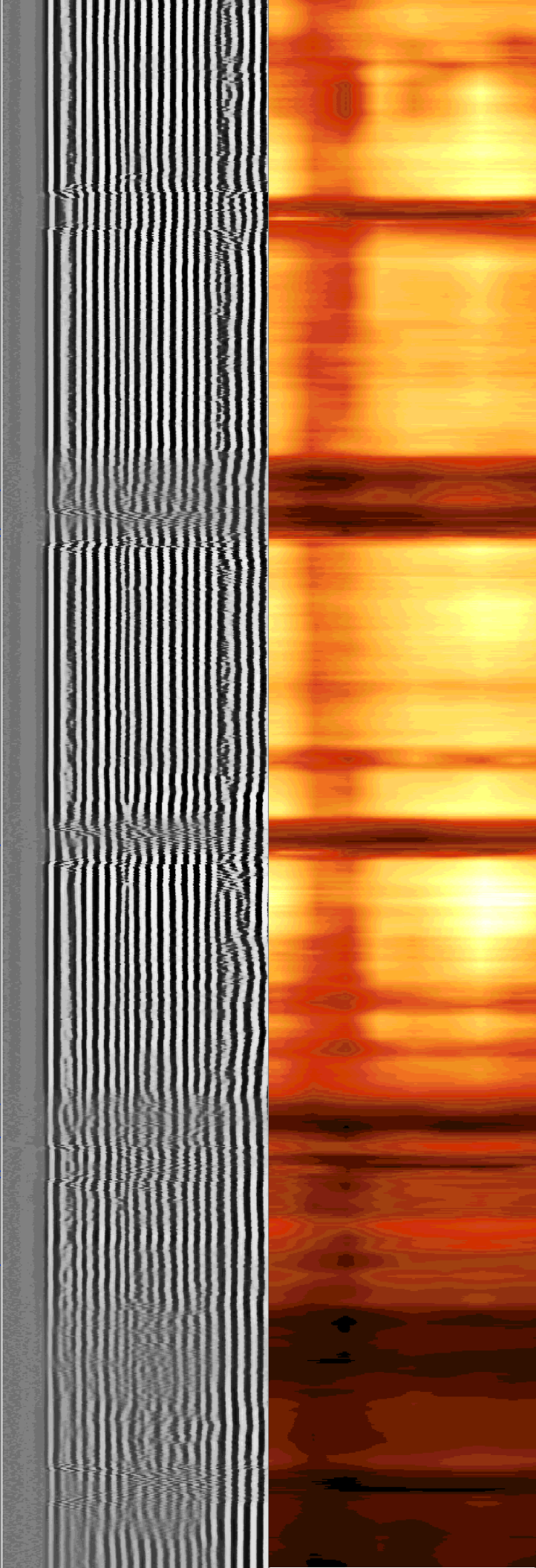
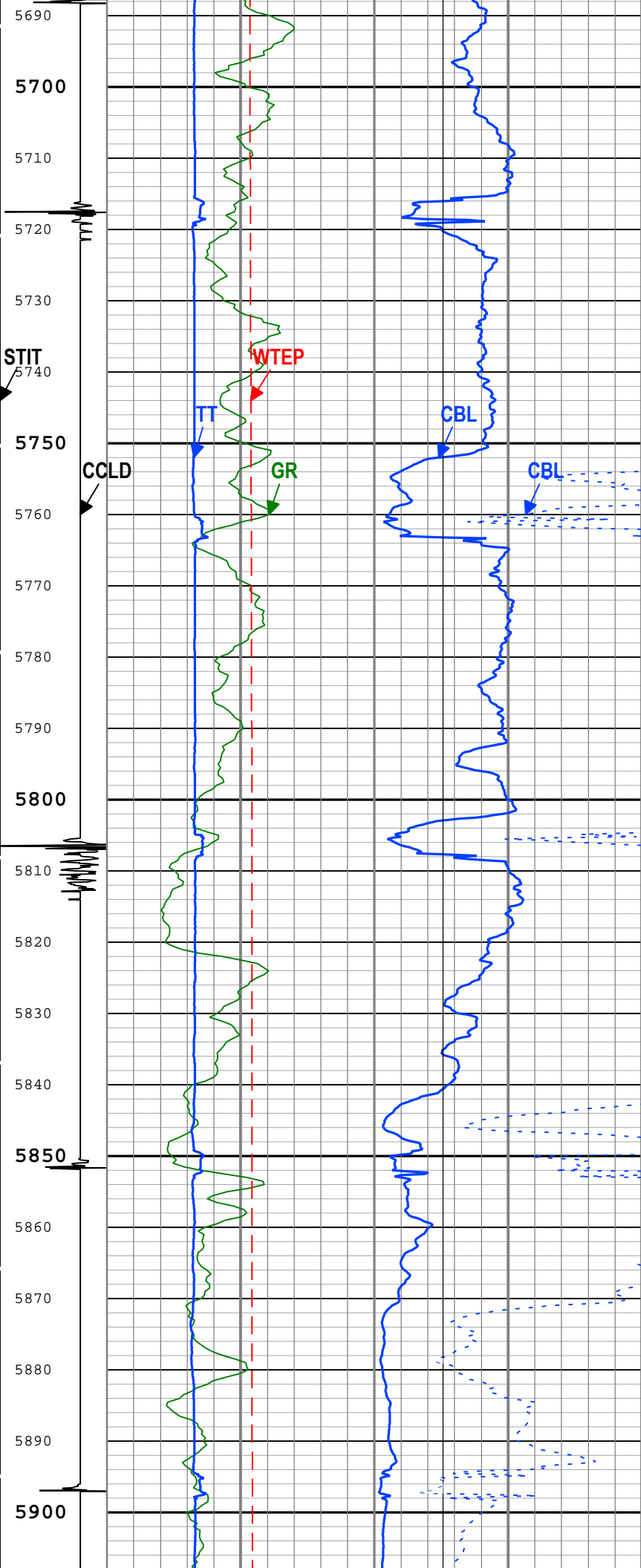




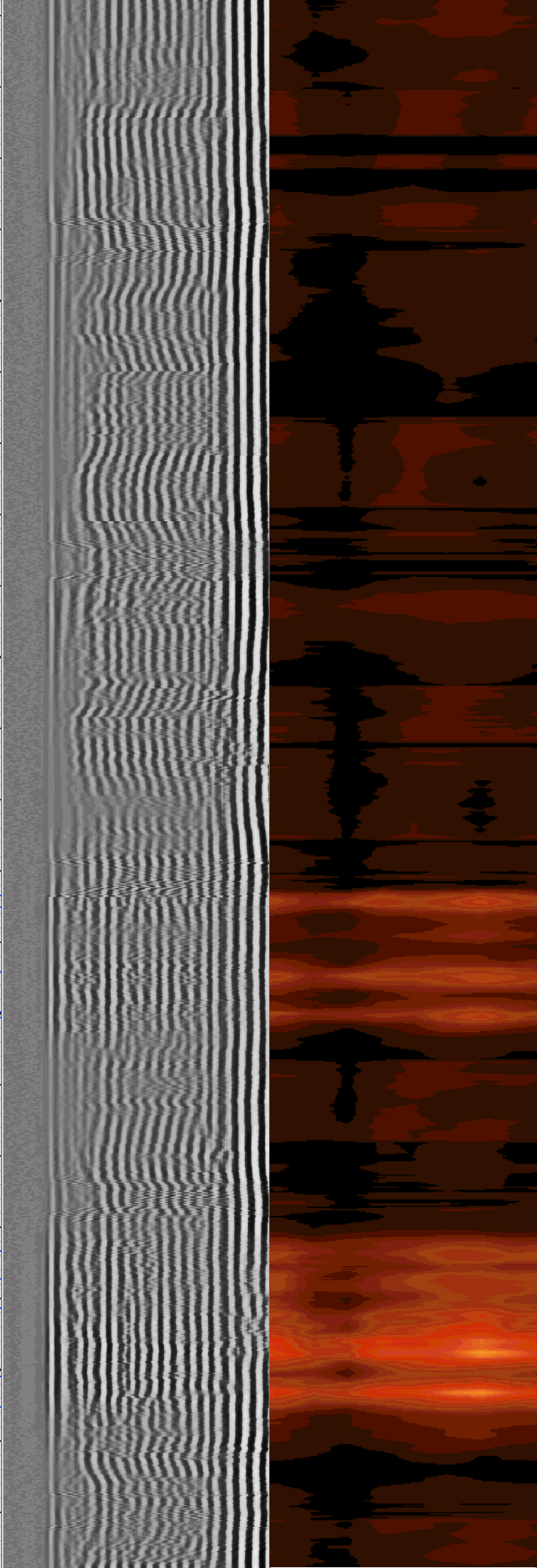
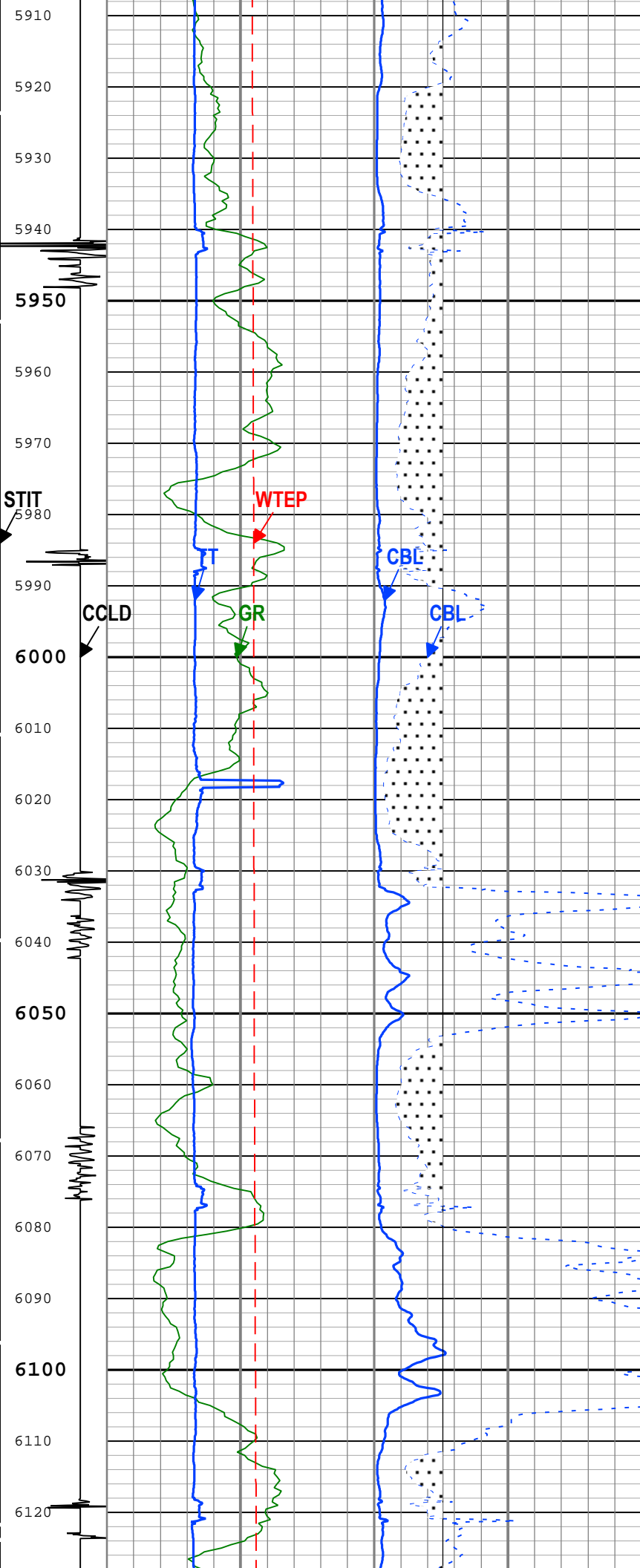


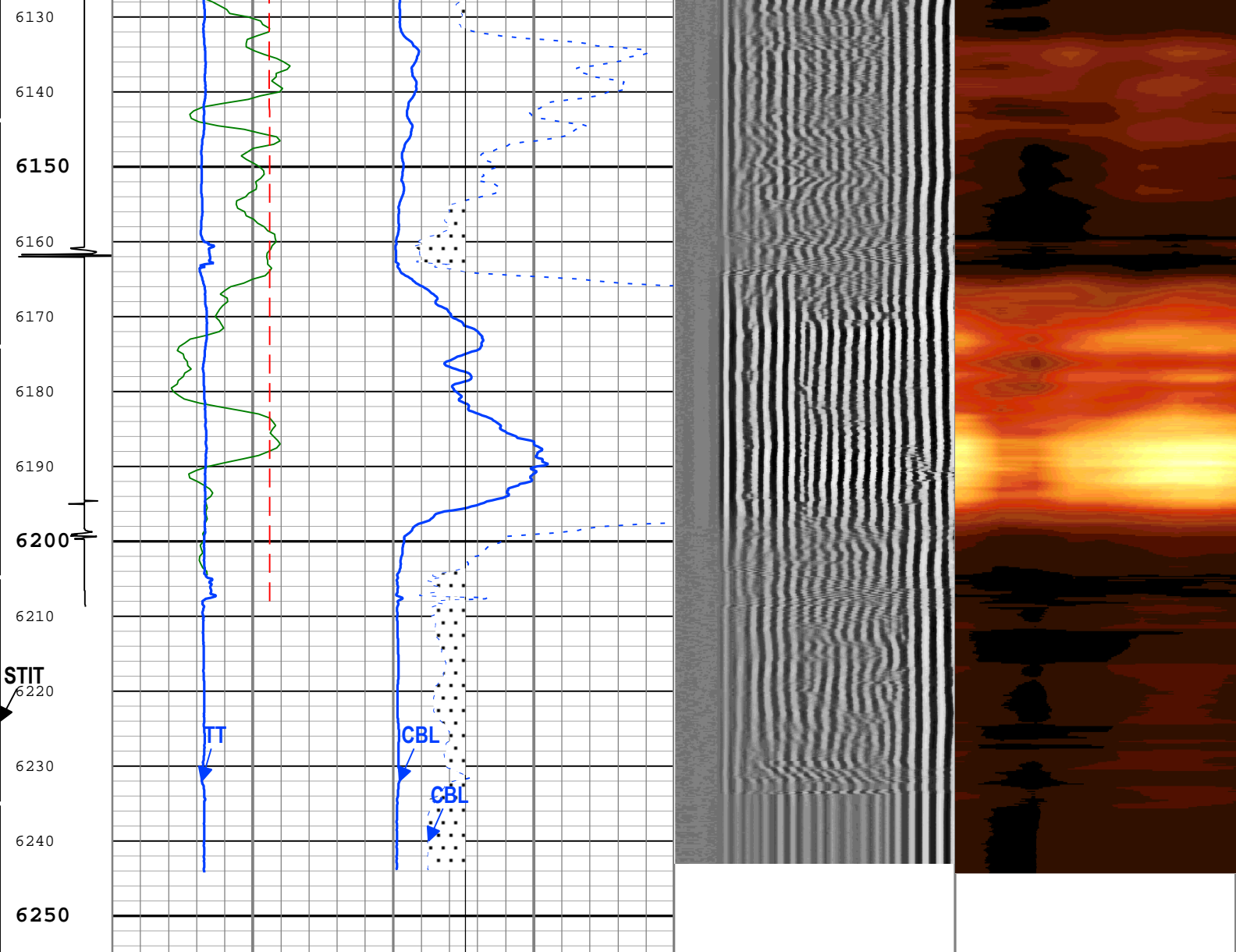












|                                       |                                   |                             |     |                                   |      |
|---------------------------------------|-----------------------------------|-----------------------------|-----|-----------------------------------|------|
| CCL                                   | Gamma Ray (GR) PSTP-A             | CBL Amplitude (CBL) SCMT-BB | Min | Amplitude                         | Max  |
| Discriminated Amplitude (CCLD) PSTP-A | 0 gAPI 150                        | 0 mV 10                     |     |                                   |      |
|                                       | Transit Time for CBL (TT) SCMT-BB | CBL Amplitude (CBL) SCMT-BB |     | VDL VariableDensity (VDL) SCMT-BB |      |
| 3 V -1                                | 200 us 400                        | 0 mV 100                    | 200 | us                                | 1200 |
| Stuck Tool Indicator, Total (STIT)    | Well Temperature (WTEP) PSTP-A    | Good Bond (GOBO)            |     |                                   |      |
| 0 ft 50                               | 0 degF 300                        | 0 mV 10                     |     |                                   |      |
|                                       |                                   | GoodBond From CBL to GOBO   |     |                                   |      |

|                |
|----------------|
| Cable Drag     |
| Tool_Tot. Drag |

TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT VDL Image Format: Log ( SCMT\_VDL\_Image\_1 ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 03-Aug-2015 14:53:36

| Channel Processing Parameters |  |          |       |      |
|-------------------------------|--|----------|-------|------|
| Run 1: Parameters             |  |          |       |      |
| Parameter                     | Description  | Tool     | Value | Unit |
| BHT                           | Bottom Hole Temperature                              | Borehole | 168.1 | degF |
| CR2G                          | SCMT CBL 2 & Back Detection T0, Delay and Noise Gate | SCMT BB  | 237.4 | us   |

|           |  |                 |             |         |
|-----------|--|-----------------|-------------|---------|
| CB3G      | SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate                     | SCMT-BB         | 237.4       | us      |
| CBLG      | CBL Gate Width   | SCMT-BB         | 59          | us      |
| CBRA      | CBL LQC Reference Amplitude in Free Pipe                                 | SCMT-BB         | 71          | mV      |
| CMCF      | CBL Cement Type Compensation Factor                                      | SCMT-BB         | 0.2         |         |
| THNO      | Nominal Casing Thickness - Zoned along logger depths                     | WLSESSION       | 0.304       | in      |
| DC_MODE   | Depth Correction Mode  | DepthCorrection | Real-time   |         |
| DFD       | Drilling Fluid Density   | Borehole        | 8.7         | lbm/gal |
| DFT       | Drilling Fluid Type  | Borehole        | Water       |         |
| DTMD      | Borehole Fluid Slowness  | Borehole        | 196         | us/ft   |
| FCF       | CBL Fluid Compensation Factor  | SCMT-BB         | 0.93        |         |
| GOBO_CURR | Good Bond in Arbitrary Cement  | SCMT-BB         | 9.48        | mV      |
| GTSE      | Generalized Temperature Selection, from Measured or Computed Temperature | Borehole        | WTEP        |         |
| MAPG      | SCMT MAP Peak Detection T0_Delay and Noise Gate                          | SCMT-BB         | 167         | us      |
| MATT_CURR | Maximum Attenuation in Arbitrary Cement                                  | SCMT-BB         | 8.76        | dB/ft   |
| MCCF      | MAP Cement Type Compensation Factor                                      | SCMT-BB         | 0.35        |         |
| MCI       | Minimum Cemented Interval for Isolation                                  | SCMT-BB         | Depth Zoned | ft      |
| MMSA      | MAP Minimum Sonic Amplitude  | SCMT-BB         | 7.17        | mV      |
| MSA       | Minimum Sonic Amplitude  | SCMT-BB         | 1.12        | mV      |
| MSA_CURR  | Minimum Sonic Amplitude in Arbitrary Cement                              | SCMT-BB         | 5.73        | mV      |
| RUN_SNUM  | Run Sequence Number  | WSDRUN          | 1           |         |
| TD        | Total Measured Depth   | Borehole        | 6300        | ft      |
| ZCMT      | Acoustic Impedance of Cement   | SCMT-BB         | 3.7         | Mrayl   |

| Depth Zone Parameters |       |              |             |
|-----------------------|-------|--------------|-------------|
| Parameter             | Value | Start ( ft ) | Stop ( ft ) |
| MCI                   | 14.81 | 453.5        | 2493        |
| MCI                   | 4.75  | 2493         | 6255        |

All depth are actual.

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

| Run 1: Parameters |                                  |           |       |      |
|-------------------|----------------------------------|-----------|-------|------|
| Parameter         | Description                      | Tool      | Value | Unit |
| CMTM              | SCMT Operating Mode              | SCMT-BB   | Log   |      |
| MAX_LOG_SPEED     | Toolstring Maximum Logging Speed | WLSESSION | 150   | ft/h |

| Run 1 |  |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|--|
|       |  |  |  |  |  |  |  |  |  |
|       |  |  |  |  |  |  |  |  |  |

| Software Version   |                |
|--------------------|----------------|
| Acquisition System | Version        |
| Maxwell 2016       | 6.0.47569.3100 |

| Pass Summary |                |           |            |            |                        |                        |          |             |                       |
|--------------|----------------|-----------|------------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| Run Name     | Pass Objective | Direction | Top        | Bottom     | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
| Run 1        | Repeat[2]:Up   | Up        | 5939.88 ft | 6252.58 ft | 21-Jul-2015 8:34:26 PM | 21-Jul-2015 8:45:21 PM | ON       | 2.12 ft     | Yes                   |

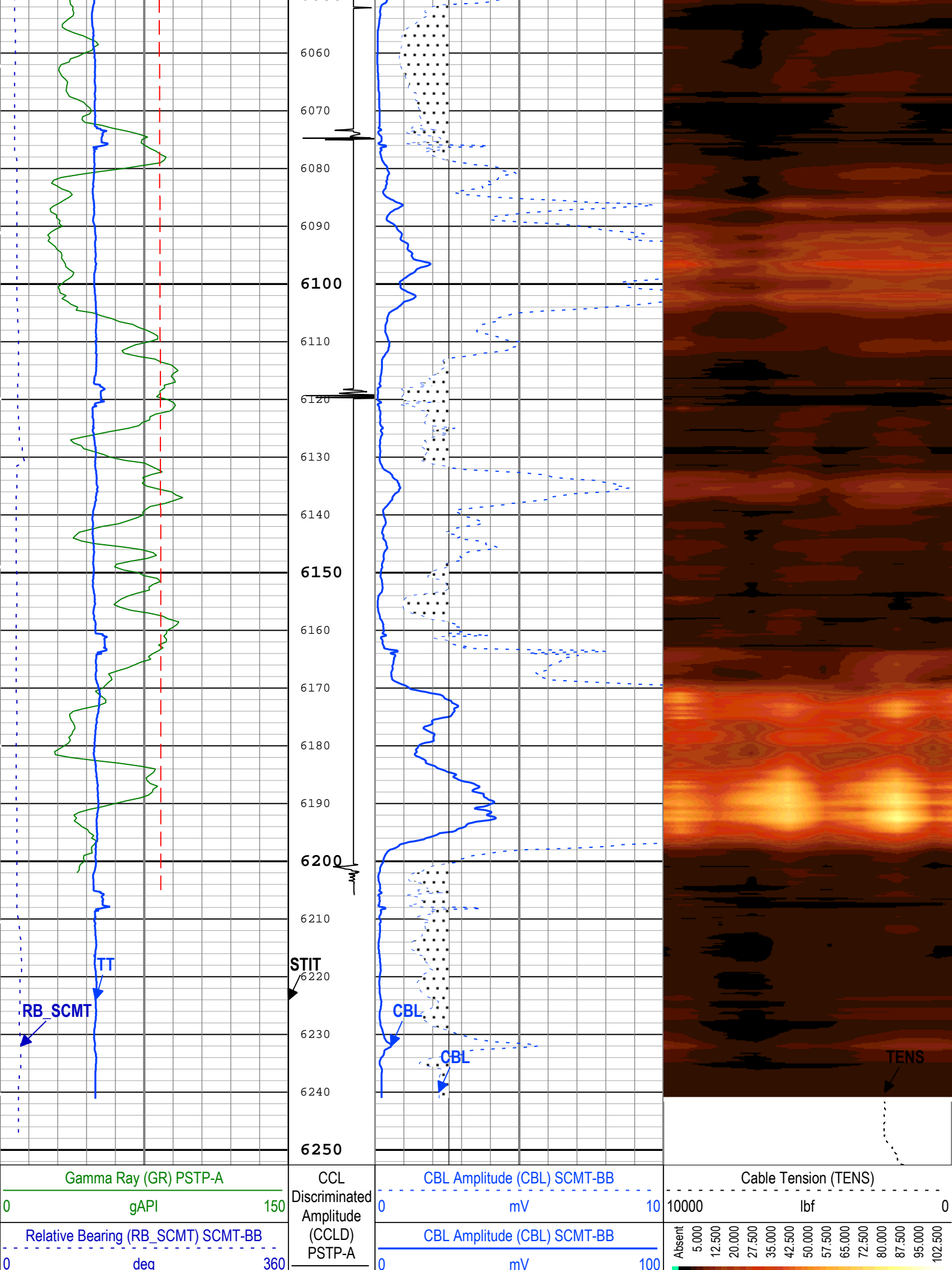
All depths are referenced to toolstring zero

| Log | <div> <div>Company:Caerus Piceance LLC</div> <div>Well:Puckett SWD H2-797</div> <div>Run 1: Repeat[2]:Up:S008</div> </div> |
|-----|--|
|-----|--|

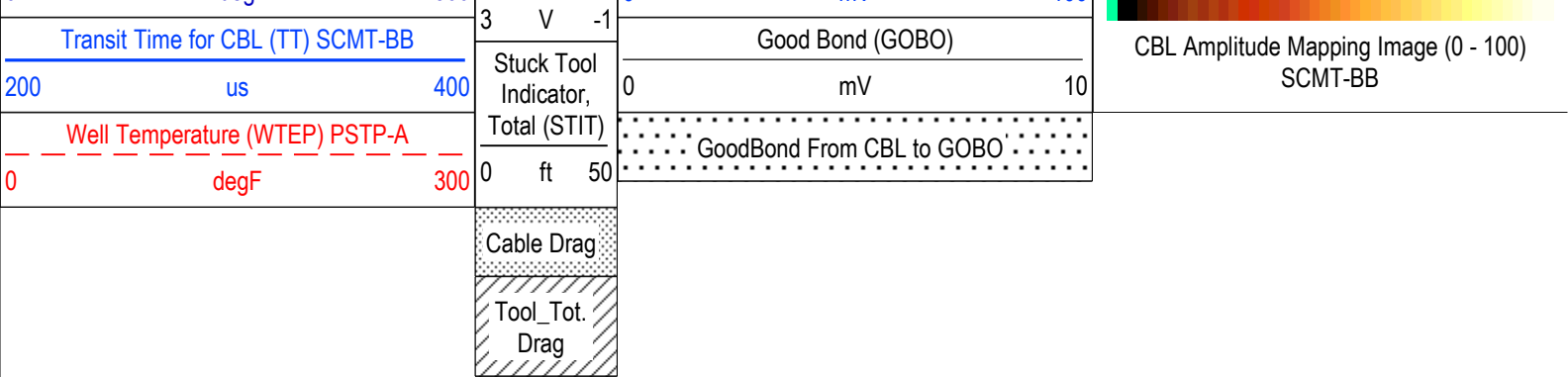
Description: SCMT Amplitudes and MAP Image    Format: Log ( SCMT\_Amp\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 03-Aug-2015 14:53:43

TIME\_1900 - Time Marked every 60.00 (s)

| Gamma Ray (GR) PSTP-A              |     | CCL Discriminated Amplitude (CCLD) PSTP-A |      | CBL Amplitude (CBL) SCMT-BB |    | Cable Tension (TENS)   |   |
|------------------------------------|-----|---|------|-----------------------------|----|--|---|
| 0                                  | 150 | 3   | V -1 | 0                           | 10 | 10000  | 0 |
| gAPI                               |     | Stuck Tool Indicator, Total (STIT)        |      | mV                          |    | lb   |   |
| 0 360                              |     | 0 ft 50                                   |      | 0 100                       |    | 10000 0  |   |
| Relative Bearing (RB_SCMT) SCMT-BB |     | Cable Drag                                |      | Good Bond (GOBO)            |    | CBL Amplitude Mapping Image (0 - 100) SCMT-BB  |   |
| 0 360                              |     | 0 10                                      |      | 0 10                        |    | Absent 5,000 12,500 20,000 27,500 35,000 42,500 50,000 57,500 65,000 72,500 80,000 87,500 95,000 102,500 |   |
| Transit Time for CBL (TT) SCMT-BB  |     | Tool_Tot. Drag                            |      | GoodBond From CBL to GOBO   |    |  |   |
| 200 400                            |     | 0 10                                      |      | 0 10                        |    |  |   |
| Well Temperature (WTEP) PSTP-A     |     |   |      |                             |    |  |   |
| 0 300                              |     |   |      |                             |    |  |   |
| degF                               |     |   |      |                             |    |  |   |







TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT Amplitudes and MAP Image    Format: Log ( SCMT\_Amp\_Image\_1 )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured

Depth    Creation Date: 03-Aug-2015 14:53:43

| Channel Processing Parameters |  |                 |           |         |
|-------------------------------|--|-----------------|-----------|---------|
| Run 1: Parameters             |  |                 |           |         |
| Parameter                     | Description  | Tool            | Value     | Unit    |
| BHT                           | Bottom Hole Temperature  | Borehole        | 168.1     | degF    |
| CB3G                          | SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate                     | SCMT-BB         | 237.4     | us      |
| CBLG                          | CBL Gate Width   | SCMT-BB         | 59        | us      |
| CBRA                          | CBL LQC Reference Amplitude in Free Pipe                                 | SCMT-BB         | 71        | mV      |
| CMCF                          | CBL Cement Type Compensation Factor                                      | SCMT-BB         | 0.2       |         |
| THNO                          | Nominal Casing Thickness - Zoned along logger depths                     | WLSESSION       | 0.304     | in      |
| DC_MODE                       | Depth Correction Mode  | DepthCorrection | Real-time |         |
| DFD                           | Drilling Fluid Density   | Borehole        | 8.7       | lbm/gal |
| DFT                           | Drilling Fluid Type  | Borehole        | Water     |         |
| DTMD                          | Borehole Fluid Slowness  | Borehole        | 196       | us/ft   |
| FCF                           | CBL Fluid Compensation Factor  | SCMT-BB         | 0.93      |         |
| GOBO_CURR                     | Good Bond in Arbitrary Cement  | SCMT-BB         | 9.48      | mV      |
| GTSE                          | Generalized Temperature Selection, from Measured or Computed Temperature | Borehole        | WTEP      |         |
| MAPG                          | SCMT MAP Peak Detection T0_Delay and Noise Gate                          | SCMT-BB         | 167       | us      |
| MATT_CURR                     | Maximum Attenuation in Arbitrary Cement                                  | SCMT-BB         | 8.76      | dB/ft   |
| MCCF                          | MAP Cement Type Compensation Factor                                      | SCMT-BB         | 0.35      |         |
| MCI                           | Minimum Cemented Interval for Isolation                                  | SCMT-BB         | 4.75      | ft      |
| MMSA                          | MAP Minimum Sonic Amplitude  | SCMT-BB         | 7.17      | mV      |
| MSA                           | Minimum Sonic Amplitude  | SCMT-BB         | 1.12      | mV      |
| MSA_CURR                      | Minimum Sonic Amplitude in Arbitrary Cement                              | SCMT-BB         | 5.73      | mV      |
| RUN_SNUM                      | Run Sequence Number  | WSDRUN          | 1         |         |
| TD                            | Total Measured Depth   | Borehole        | 6300      | ft      |
| ZCMT                          | Acoustic Impedance of Cement   | SCMT-BB         | 3.7       | Mrayl   |

| Tool Control Parameters |                                  |           |       |      |
|-------------------------|----------------------------------|-----------|-------|------|
| Run 1: Parameters       |                                  |           |       |      |
| Parameter               | Description                      | Tool      | Value | Unit |
| CMTM                    | SCMT Operating Mode              | SCMT-BB   | Log   |      |
| MAX_LOG_SPEED           | Toolstring Maximum Logging Speed | WLSESSION | 150   | ft/h |
| Run 1                   |                                  |           |       |      |
|                         |                                  |           |       |      |
|                         |                                  |           |       |      |
| Software Version        |                                  |           |       |      |
| Acquisition System      |                                  | Version   |       |      |

## Pass Summary

| Run Name | Pass Objective | Direction | Top        | Bottom     | Start                     | Stop                      | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|------------|------------|---------------------------|---------------------------|----------|-------------|-----------------------|
| Run 1    | Repeat[2]:Up   | Up        | 5939.88 ft | 6252.58 ft | 21-Jul-2015<br>8:34:26 PM | 21-Jul-2015<br>8:45:21 PM | ON       | 2.12 ft     | Yes                   |

All depths are referenced to toolstring zero

## Log

Company:Caerus Piceance LLC

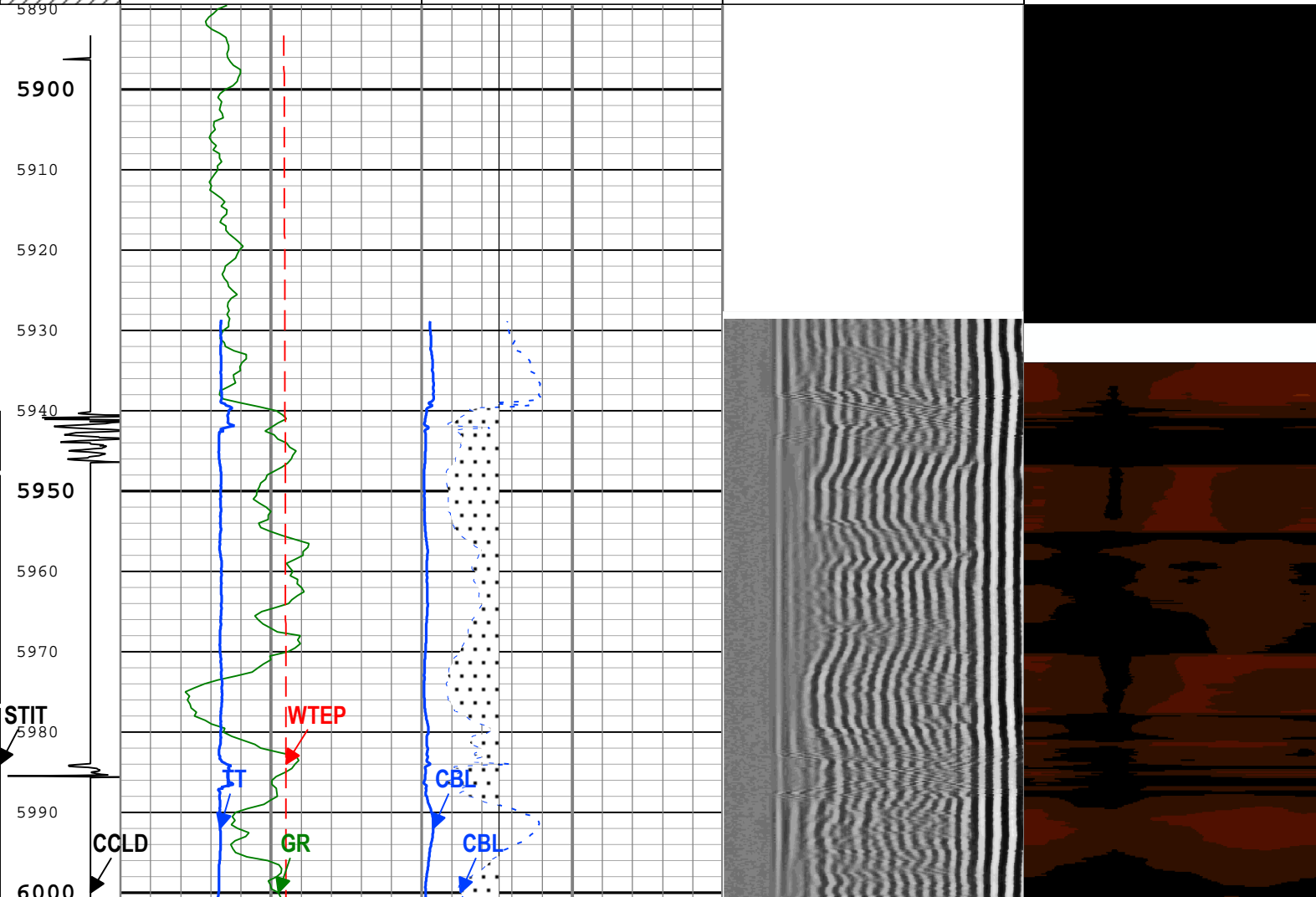
Well:Puckett SWD H2-797

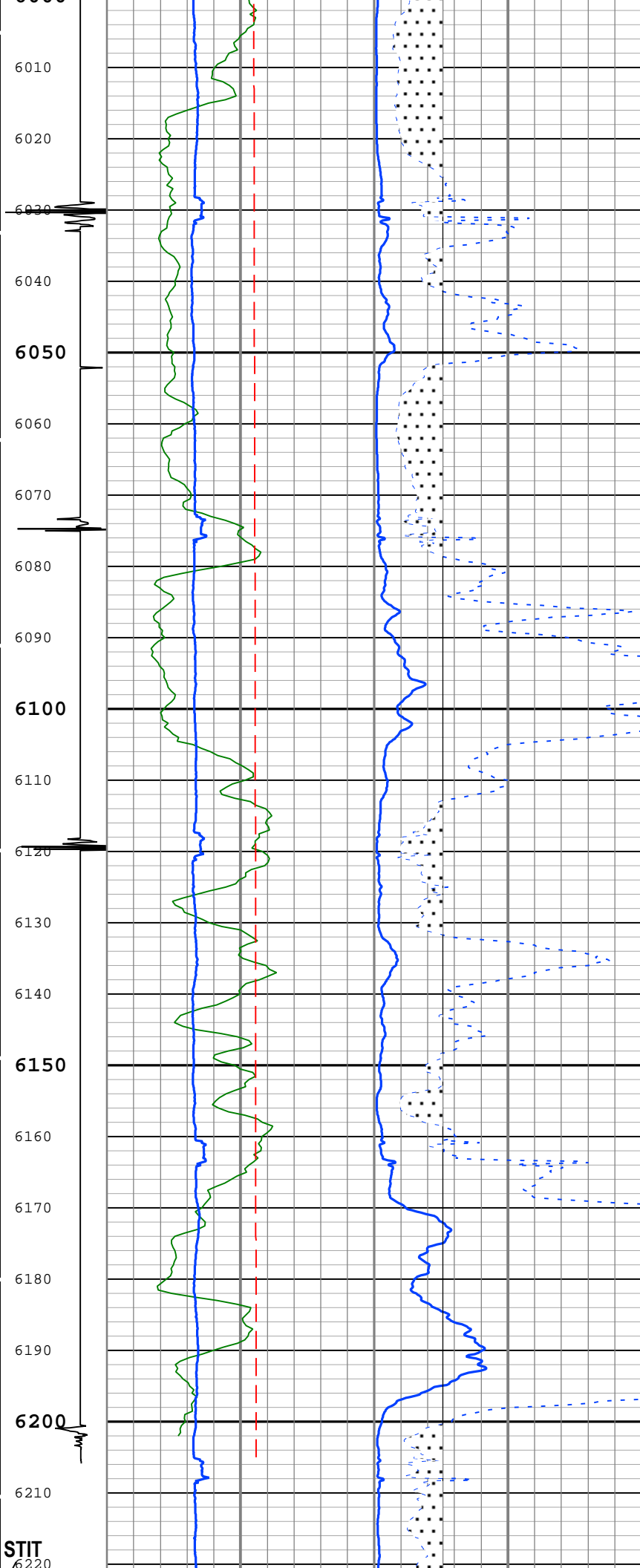
Run 1: Repeat[2]:Up:S008

|                             |                                  |                              |                |                            |                                     |
|-----------------------------|----------------------------------|------------------------------|----------------|----------------------------|-------------------------------------|
| Description: SCMT VDL Image | Format: Log ( SCMT_VDL_Image_1 ) | Index Scale: 5 in per 100 ft | Index Unit: ft | Index Type: Measured Depth | Creation Date: 03-Aug-2015 14:53:45 |
|-----------------------------|----------------------------------|------------------------------|----------------|----------------------------|-------------------------------------|

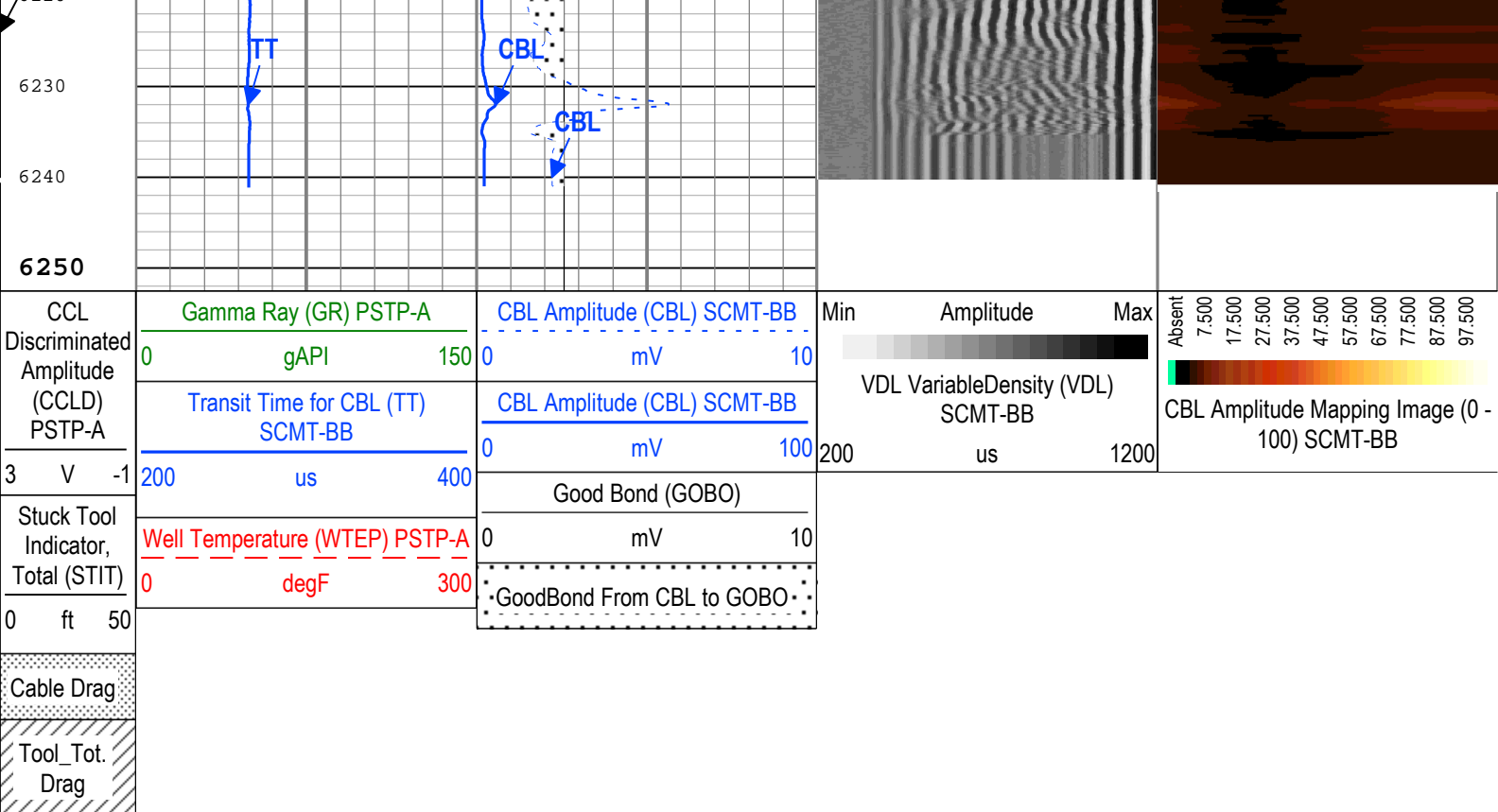
TIME\_1900 - Time Marked every 60.00 (s)

|   |                                   |          |                             |  |  |  |  |  |
|---|-----------------------------------|----------|-----------------------------|--|--|--|--|--|
| CCL Discriminated Amplitude (CCLD) PSTP-A |                                   |          |                             |  |  |  |  |  |
| 3   | V                                 | -1       |                             |  |  |  |  |  |
| Stuck Tool Indicator, Total (STIT)        | Gamma Ray (GR) PSTP-A             |          | CBL Amplitude (CBL) SCMT-BB |  |  |  |  |  |
|   | 0                                 | gAPI 150 | 0 mV 10                     |  |  |  |  |  |
| 0 ft 50                                   | Transit Time for CBL (TT) SCMT-BB |          | CBL Amplitude (CBL) SCMT-BB |  |  |  |  |  |
|   |                                   |          | 0 mV 100                    |  |  |  |  |  |
| Cable Drag                                | 200 us 400                        |          | Good Bond (GOBO)            |  |  |  |  |  |
|   |                                   |          | 0 mV 10                     |  |  |  |  |  |
| Tool_Tot. Drag                            | Well Temperature (WTEP) PSTP-A    |          | GoodBond From CBL to GOBO   |  |  |  |  |  |
|   | 0 degF 300                        |          | 200 us 1200                 |  |  |  |  |  |





STIT  
6220



TIME\_1900 - Time Marked every 60.00 (s)

Description: SCMT VDL Image Format: Log ( SCMT\_VDL\_Image\_1 ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 03-Aug-2015 14:53:45

## Channel Processing Parameters

### Run 1: Parameters

| Parameter | Description  | Tool            | Value     | Unit    |
|-----------|--|-----------------|-----------|---------|
| BHT       | Bottom Hole Temperature  | Borehole        | 168.1     | degF    |
| CB3G      | SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate                     | SCMT-BB         | 237.4     | us      |
| CBLG      | CBL Gate Width   | SCMT-BB         | 59        | us      |
| CBRA      | CBL LQC Reference Amplitude in Free Pipe                                 | SCMT-BB         | 71        | mV      |
| CMCF      | CBL Cement Type Compensation Factor                                      | SCMT-BB         | 0.2       |         |
| THNO      | Nominal Casing Thickness - Zoned along logger depths                     | WLSESSION       | 0.304     | in      |
| DC_MODE   | Depth Correction Mode  | DepthCorrection | Real-time |         |
| DFD       | Drilling Fluid Density   | Borehole        | 8.7       | lbm/gal |
| DFT       | Drilling Fluid Type  | Borehole        | Water     |         |
| DTMD      | Borehole Fluid Slowness  | Borehole        | 196       | us/ft   |
| FCF       | CBL Fluid Compensation Factor  | SCMT-BB         | 0.93      |         |
| GOBO_CURR | Good Bond in Arbitrary Cement  | SCMT-BB         | 9.48      | mV      |
| GTSE      | Generalized Temperature Selection, from Measured or Computed Temperature | Borehole        | WTEP      |         |
| MAPG      | SCMT MAP Peak Detection T0_Delay and Noise Gate                          | SCMT-BB         | 167       | us      |
| MATT_CURR | Maximum Attenuation in Arbitrary Cement                                  | SCMT-BB         | 8.76      | dB/ft   |
| MCCF      | MAP Cement Type Compensation Factor                                      | SCMT-BB         | 0.35      |         |
| MCI       | Minimum Cemented Interval for Isolation                                  | SCMT-BB         | 4.75      | ft      |
| MMSA      | MAP Minimum Sonic Amplitude  | SCMT-BB         | 7.17      | mV      |
| MSA       | Minimum Sonic Amplitude  | SCMT-BB         | 1.12      | mV      |
| MSA_CURR  | Minimum Sonic Amplitude in Arbitrary Cement                              | SCMT-BB         | 5.73      | mV      |
| RUN_SNUM  | Run Sequence Number  | WSDRUN          | 1         |         |
| TD        | Total Measured Depth   | Borehole        | 6300      | ft      |
| ZCMT      | Acoustic Impedance of Cement   | SCMT-BB         | 3.7       | Mrayl   |

Tool Control Parameters

Run 1: Parameters

| Parameter     | Description                      | Tool      | Value | Unit |
|---------------|----------------------------------|-----------|-------|------|
| CMTM          | SCMT Operating Mode              | SCMT-BB   | Log   |      |
| MAX_LOG_SPEED | Toolstring Maximum Logging Speed | WLSESSION | 150   | ft/h |

Calibration Report

SCMT-BB (Slim Cement Mapping Tool, 1-11/16 OD) Calibration - Run 1

|                     |                           |         |      |
|---------------------|---------------------------|---------|------|
| Primary Equipment : | Slim Cement Mapping Sonde | SCMS-BB | 8002 |
|---------------------|---------------------------|---------|------|

CBL and MAP Amplitude Adjustment - Measurements

| Before (Measured):                        | 15:07:38 20-Jul-2015 |        |         |           |         |            |  |
|---|----------------------|--------|---------|-----------|---------|------------|--|
| Measurement                               | Unit                 | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
| CBL Amplitude                             | mV                   | Before |         |           | 86.34   |            |  |
| Average MAP Amplitude (Fluid Compensated) | mV                   | Before |         |           | 121.92  |            |  |
| Measurement Depth                         | ft                   | Before |         |           | 1110.17 |            |  |

CBL and MAP Amplitude Adjustment - Coefficients

| Before (Measured):                       | 15:07:38 20-Jul-2015 |        |         |           |         |            |  |
|--|----------------------|--------|---------|-----------|---------|------------|--|
| Measurement                              | Unit                 | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
| CBL Adjustment Factor                    |                      | Before |         |           | 0.927   |            |  |
| CBL LQC Reference Amplitude in Free Pipe | mV                   | Before |         |           | 80.00   |            |  |
| MAP Adjustment Factor                    |                      | Before |         |           | 0.820   |            |  |
| Depth of Before Calibration              | ft                   | Before |         |           | 1110.17 |            |  |

PSTP-A (PSP Telemetry Platform A - Sapphire) Calibration - Run 1

|                         |   |        |      |
|-------------------------|---|--------|------|
| Primary Equipment :     | PBMS-A                                    | PBMS-A | 1963 |
| Calibration Parameter : | JIG-BKGD (Jig minus background reference) | 160    |      |

PBMS Gamma Ray Check - PBMSA Gamma Ray Accumulations

| Before (Measured):         | 18:51:55 21-Jul-2015 |        |         |           |          |            |  |
|----------------------------|----------------------|--------|---------|-----------|----------|------------|--|
| Measurement                | Unit                 | Phase  | Nominal | Low Limit | Actual   | High Limit |  |
| GR Zero Average            | gAPI                 | Before | 30      | 0         | 78.13891 | 120        |  |
| GR Zero Standard Deviation | gAPI                 | Before |         |           | 30.56431 |            |  |
| GR Zero Max Deviation      | gAPI                 | Before |         |           | 140.6766 |            |  |
| GR Plus Average            | gAPI                 | Before |         |           | 224.6834 |            |  |
| GR Plus Standard Deviation | gAPI                 | Before |         |           | 55.97226 |            |  |
| GR Plus Max Deviation      | gAPI                 | Before |         |           | 187.2046 |            |  |
| Jig-Background             | gAPI                 | Before | 160     | 145       | 154.2119 | 175        |  |

PBMS Well Temp Master Calibration

|                         |                      |          |           |          |           |       |
|-------------------------|----------------------|----------|-----------|----------|-----------|-------|
| Master (EEPROM):        | 00:00:00 12-May-2005 |          |           |          |           |       |
| PBMS_RTD_THERM (Master) | RTD Coefficients     |          |           |          |           |       |
|                         | Tt**0                | Tt**1    | Tt**2     | Tt**3    | Tt**4     | Tt**5 |
| Tt**0                   | -1418.501            | 1118.407 | -362.1241 | 56.89739 | -3.317989 | 0     |

PBMS Gamma Ray Master Calibration

|                        |                      |       |  |  |  |  |
|------------------------|----------------------|-------|--|--|--|--|
| Master (EEPROM):       | 00:00:00 01-Dec-2003 |       |  |  |  |  |
| PBMS_GR_MODEL (Master) | GR Coefficients      |       |  |  |  |  |
|                        | Rt**0                | Rt**1 |  |  |  |  |

|       |      |      |
|-------|------|------|
| Rt**0 | 2000 | 4740 |
|-------|------|------|

| PBMS A Reference Clock Master Calibration         |         |           |             |              |              |         |
|---|---------|-----------|-------------|--------------|--------------|---------|
| Master (EEPROM): 00:00:00 12-May-2005             |         |           |             |              |              |         |
| PBMS_REF_CLOCK PBMS A Clock Coefficients (Master) |         |           |             |              |              |         |
|   | Temp**0 | Temp**1   | Temp**2     | Temp**3      | Temp**4      | Temp**5 |
| Temp**0   | 45.0069 | -9.445683 | -0.02744274 | 0.0002354008 | 3.654205E-06 | 0       |

| PBMS A Sapphire Master Calibration                                 |           |             |             |            |            |       |
|--|-----------|-------------|-------------|------------|------------|-------|
| Master (EEPROM): 00:00:00 12-May-2005                              |           |             |             |            |            |       |
| PBMS_P_GAUGE_PRES Sapphire Pressure Model Coefficients (Master)    |           |             |             |            |            |       |
|  | Tt**0     | Tt**1       | Tt**2       | Tt**3      | Tt**4      | Tt**5 |
| Tp**0  | 4187.029  | -3429.79    | 773.3541    | -119.1729  | 7.244876   | 0     |
| Tp**1  | 698.9312  | 545.2234    | 21.97955    | -3.948855  | 0.2235462  | 0     |
| Tp**2  | -6.430802 | 9.633142    | -3.005254   | 0          | 0          | 0     |
| Tp**3  | -2.550163 | 0.6971294   | 0           | 0          | 0          | 0     |
| Tp**4  | 0         | 0           | 0           | 0          | 0          | 0     |
| Tp**5  | 0         | 0           | 0           | 0          | 0          | 0     |
| PBMS_P_GAUGE_TEMP Sapphire Temperature Model Coefficients (Master) |           |             |             |            |            |       |
|  | Tp**0     | Tp**1       | Tp**2       | Tp**3      | Tp**4      | Tp**5 |
| Tt**0  | -293.9637 | 10.31608    | -5.693609   | 1.308318   | -0.1107738 | 0     |
| Tt**1  | 63.53009  | -2.347224   | 1.230874    | -0.2610083 | 0.02165993 | 0     |
| Tt**2  | 8.593975  | 0.03386374  | -0.01621674 | 0          | 0          | 0     |
| Tt**3  | -0.487141 | 0.005250175 | 0           | 0          | 0          | 0     |
| Tt**4  | 0         | 0           | 0           | 0          | 0          | 0     |
| Tt**5  | 0         | 0           | 0           | 0          | 0          | 0     |

|                          |                     |              |
|--------------------------|---------------------|--------------|
| Company:                 | Caerus Piceance LLC | Schlumberger |
| Well:                    | Puckett SWD H2-797  |              |
| Field:                   | Wildcat             |              |
| County:                  | Garfield            |              |
| State:                   | Colorado            |              |
| Slim Cement Mapping Tool |                     |              |
| CBL-VDL                  |                     |              |