

Company: Anadarko Petroleum Corporation

Well: Verde 13-7HZ

Field: Wildcat

County: Weld State: Colorado

Cement Bond Log

Variable Density Log

|                                 |                                |
|---------------------------------|--------------------------------|
| Well:                           | Weld                           |
| Field:                          | Wildcat                        |
| Location:                       | NENW Sec. 13, T1N, R66W        |
| Well:                           | Verde 13-7HZ                   |
| Company:                        | Anadarko Petroleum Corporation |
| Location:                       |                                |
| NENW Sec. 13, T1N, R66W         | Elev.: K.B. 5097.00 ft         |
| 902' FNL, 2527' FWL             | G.L. 5071.00 ft                |
| Lat/Long: 40.056074/-104.725886 | D.F. 5097.00 ft                |
| Permanent Datum:                | Ground Level                   |
| Log Measured From:              | Kelly Bushing                  |
| Drilling Measured From:         | Kelly Bushing                  |
| API Serial No.                  | Section: 13                    |
| 05-123-46247                    | Township: 1N                   |
|                                 | Range: 66W                     |

|                           |                      |
|---------------------------|----------------------|
| Logging Date              | 22-Jun-2018          |
| Run Number                | ONE                  |
| Depth Driller             | 18855.00 ft          |
| Schlumberger Depth        | 18855.00 ft          |
| Bottom Log Interval       | 6815.00 ft           |
| Top Log Interval          | 100.00 ft            |
| Casing Fluid Type         | Water                |
| Salinity                  |                      |
| Density                   | 8.4 lbm/gal          |
| Fluid Level               | 8.00 ft              |
| BIT/CASING/TUBING STRING  |                      |
| Bit Size                  | 7.88 in              |
| From                      | 1895.00 ft           |
| To                        | 18855.00 ft          |
| Casing/Tubing Size        | 5.5 in               |
| Weight                    | 17 lbm/ft            |
| Grade                     | P110                 |
| From                      | 0.00 ft              |
| To                        | 18844.00 ft          |
| Max Recorded Temperatures | 216 degF             |
| Logger on Bottom          | 22-Jun-2018 15:09:00 |
| Unit Number               | 9108                 |
| Recorded By               | Ashley Rosacker      |
| Witnessed By              | Kyle Carver          |

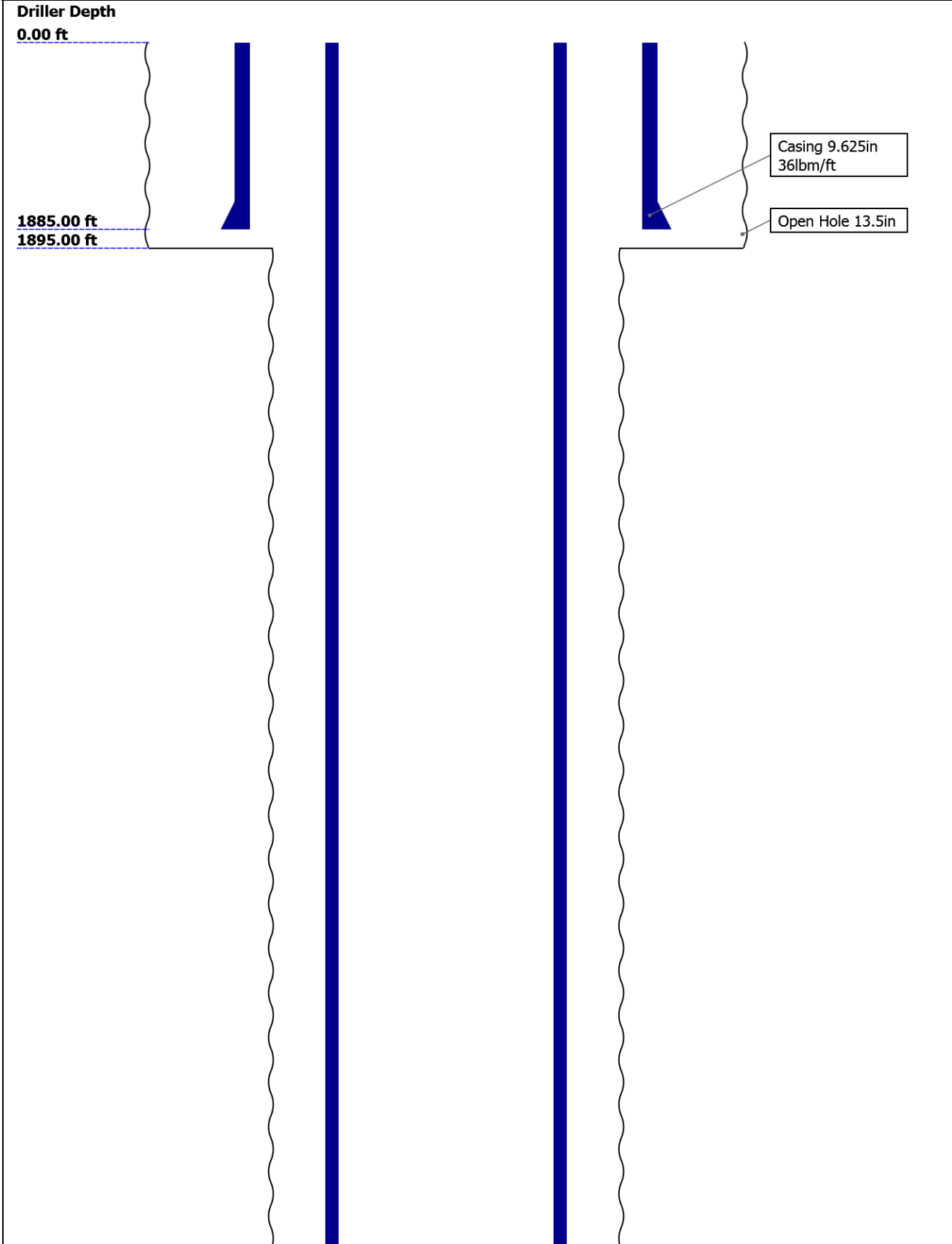
Disclaimer

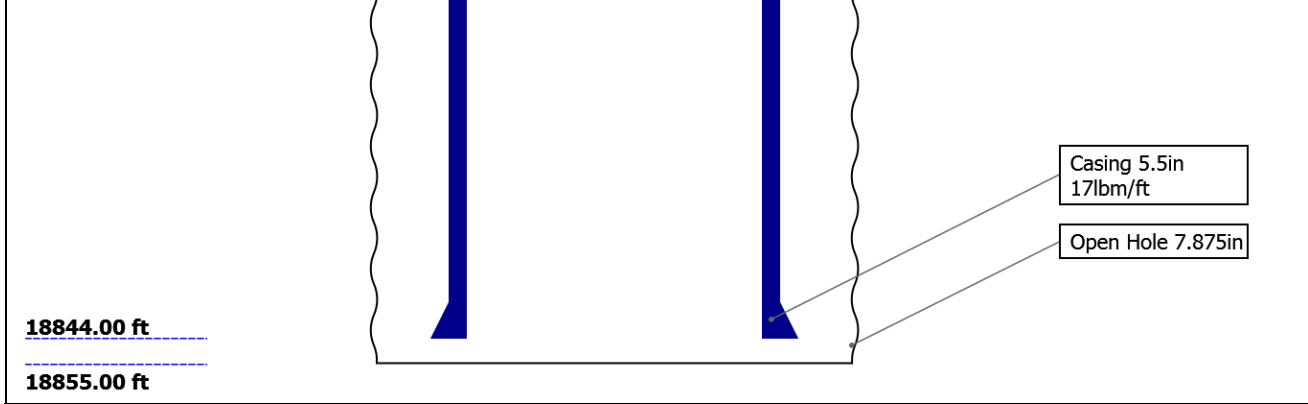
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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Well Sketch






Borehole Size/Casing/Tubing Record

|                       |       |       |  |  |  |  |
|-----------------------|-------|-------|--|--|--|--|
| Bit                   |       |       |  |  |  |  |
| Bit Size ( in )       | 13.5  | 7.875 |  |  |  |  |
| Top Driller ( ft )    | 0     | 1895  |  |  |  |  |
| Top Logger ( ft )     | 0     | 1895  |  |  |  |  |
| Bottom Driller ( ft ) | 1895  | 18855 |  |  |  |  |
| Bottom Logger ( ft )  | 1895  | 18855 |  |  |  |  |
| Casing                |       |       |  |  |  |  |
| Size ( in )           | 9.625 | 5.5   |  |  |  |  |
| Weight ( lbm/ft )     | 36    | 17    |  |  |  |  |
| Inner Diameter ( in ) | 8.921 | 4.892 |  |  |  |  |
| Grade                 | J55   | P110  |  |  |  |  |
| Top Driller ( ft )    | 0     | 0     |  |  |  |  |
| Top Logger ( ft )     | 0     | 0     |  |  |  |  |
| Bottom Driller ( ft ) | 1885  | 18844 |  |  |  |  |
| Bottom Logger ( ft )  | 1885  | 18844 |  |  |  |  |

Remarks and Equipment Summary

| ONE: Toolstring   |  |  | ONE: Remarks |  |  |
|---|--|--|--------------|--|--|
| <div><div><div>Equip nameLength</div><div>LEH-QT:2 68.77</div><div>109</div><div>LEH-QT:21</div><div>09</div><div>EDTC-B:9 65.29</div><div>274</div><div>EDTH-B:93</div><div>09</div><div>EDTG-A:7</div><div>9445</div><div>EDTC-B:92</div><div>74</div><div>EQF-48 58.79</div></div><div></div><div><div>MP name</div><div>Offset</div><div>61.79</div><div>0.00</div><div>0.00</div><div>59.92</div><div>58.79</div></div></div> | Toolstring run as per tool sketch.                             |  |              |  |  |
|   | Cement: 12 ppg lead, 13.5 ppg tail.                            |  |              |  |  |
|   | Isolation scanner resolution 10 deg, 6" for cement evaluation. |  |              |  |  |
|   | IBC CBL run at 0 PSI and 7500 PSI.                             |  |              |  |  |
|   | Log correlated to short joint top at 6766 ft.                  |  |              |  |  |

HGNH  
NSR-F:520  
3  
NPV-N  
HMCA-H  
HACCZ-H:  
5118  
HGNS-H

|             |       |
|-------------|-------|
| Temperature | 50.76 |
| GR          | 50.05 |

|               |       |
|---------------|-------|
| CNL Porosity  | 43.71 |
| HGNS          | 41.38 |
| HMCA          | 41.38 |
| Accelerometer | 0.00  |


ECH-KH:8  
652  
DSLCH-H:82  
86  
SLS-E:801  
6

|               |       |
|---------------|-------|
| ✓ CBL 3ft     | 28.91 |
| ✓ Upper-N ear | 28.91 |
| ✓ VDL 5ft     | 27.91 |
| ✓ Upper-F ar  | 27.91 |
| ✓ Delta-T     | 26.53 |
| ✓ Lower-F ar  | 25.16 |
| ✓ Lower-N ear | 24.16 |

**SLS-E**      **20.74**  
4880

5965

ECH-MFA:  
1924  
USAC-A:9  
30  
USIS-A:18  
20  
USSC-B:79  
9  
IBCS-A:77  
4  
FAR-SENS  
OR:3415  
IBC-TX  
NEAR-SEN  
SOR:2088  
IBC-TX  
USI-SENS

|  |                       |   |  |
|--|-----------------------|---|--|
| <div>OR:2097</div> <div>IBC-TX</div> <div>EMITTER-SENSOR:2</div> <div>346</div> <div>IBC-TX</div> <div></div> <div>Lengths are in ft</div> <div>Maximum Outer Diameter = 6.250 in</div> <div>Line: Sensor Location, Value: Gating Offset</div> <div>All measurements are relative to TOOL_ZERO</div> |                       |   |  |
| Depth Summary  |                       |   |  |
|  | ONE                   |   |  |
| 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   |                       |   |  |
| Calibrator Serial Number   |                       |   |  |
| Number of Calibration Points   | 0                     |   |  |
| Logging Cable  |                       |   |  |
| Type   | 7-39AI-XXS            |   |  |
| Serial Number  |                       |   |  |
| Length   | 24000.00 ft           |   |  |
| Conveyance Type  | Wireline              |   |  |
| Rig Type   | Crane                 |   |  |
| ONE:Depth Control Parameters   |                       | Depth Control Remarks                               |  |
| Log Sequence   | First Log In the Well | All Schlumberger depth control procedures followed. |  |
| Rig Up Length At Surface   |                       |   |  |
| Rig Up Length At Bottom  |                       |   |  |
| Rig Up Length Correction   |                       |   |  |
| Stretch Correction   |                       |   |  |
| Tool Zero Check At Surface   |                       |   |  |
| ONE  |                       |   |  |
| CBL 0 PSI  |                       |   |  |
| Software Version   |                       |   |  |
| Acquisition System   |                       | Version   |  |
| Maxwell 2018 SP1   |                       | 8.1.99839.3100                                      |  |

# Pass Summary

| Run Name | Pass Objective | Direction | Top      | Bottom     | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| ONE      | Log[1]:Up      | Up        | 83.37 ft | 6822.14 ft | 22-Jun-2018 3:09:38 PM | 22-Jun-2018 4:46:46 PM | ON       | 6.92 ft     | No                    |

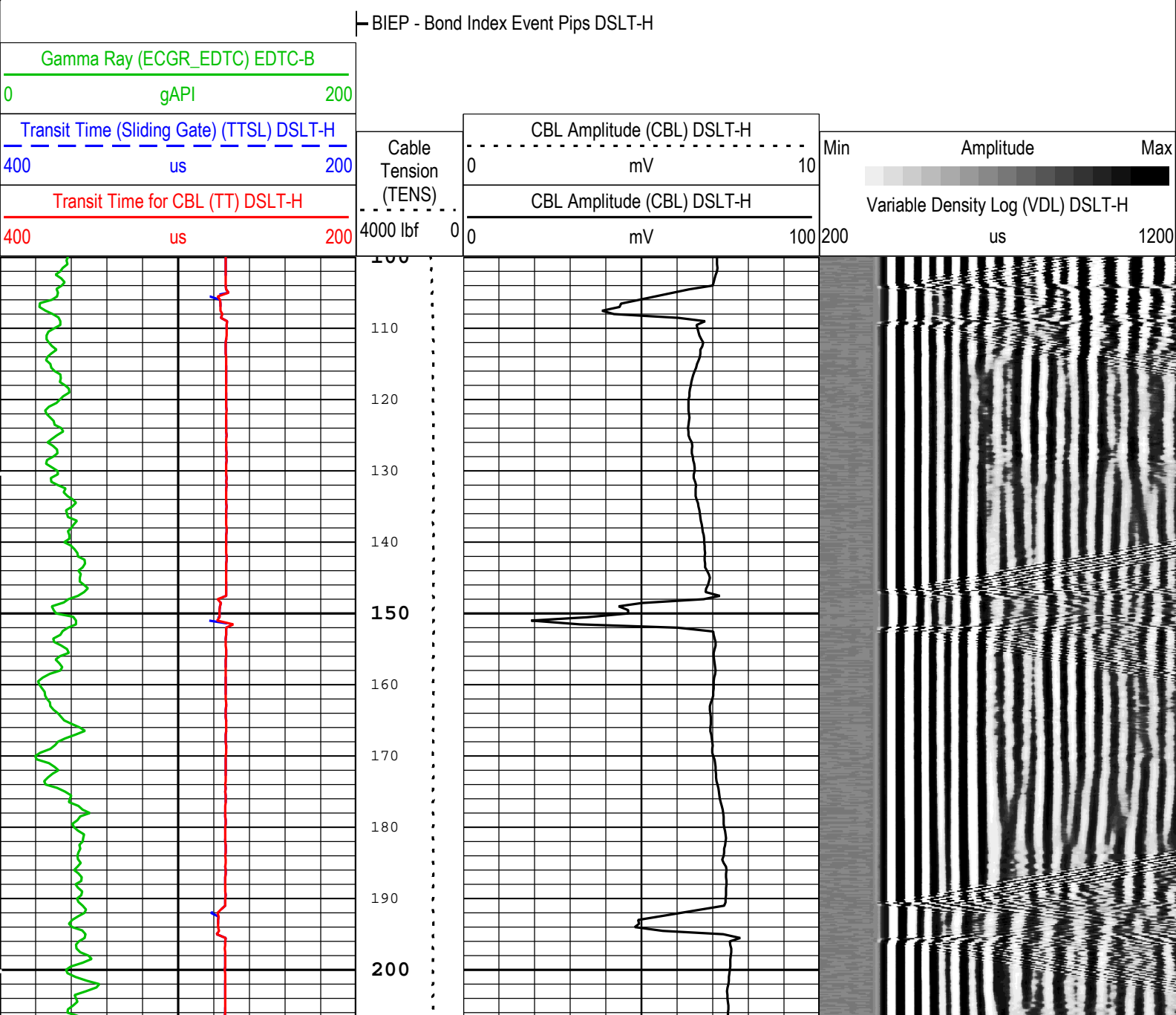
All depths are referenced to toolstring zero

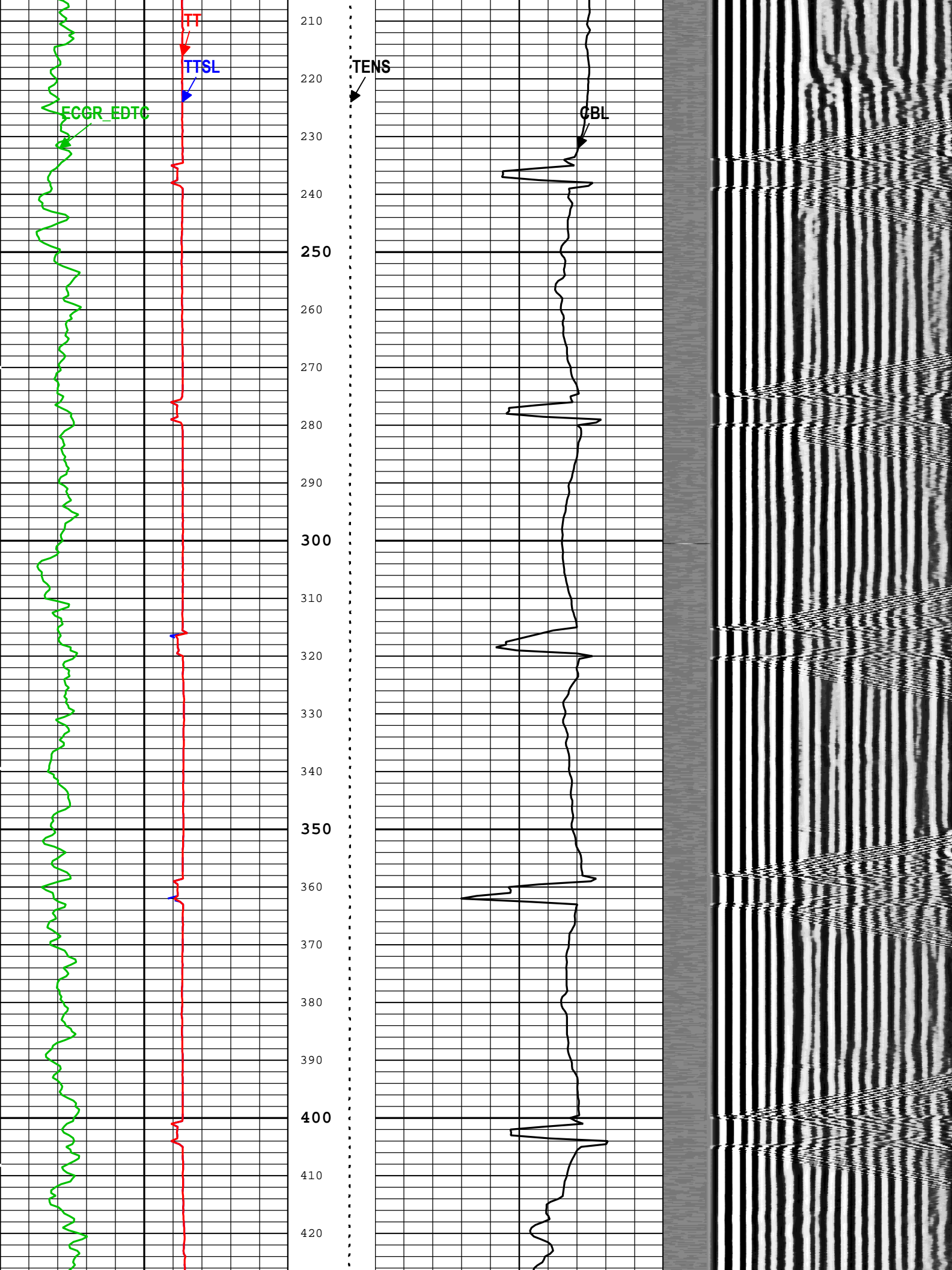
|            |  |                     |
|------------|--|---------------------|
| <b>Log</b> | Company:Anadarko Petroleum Corporation | Well:Verde 13-7HZ   |
|            |  | ONE: Log[1]:Up:S006 |

Description: CBL\_Dual\_Gate Format: Log ( CBL ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 23-Jun-2018 10:44:15

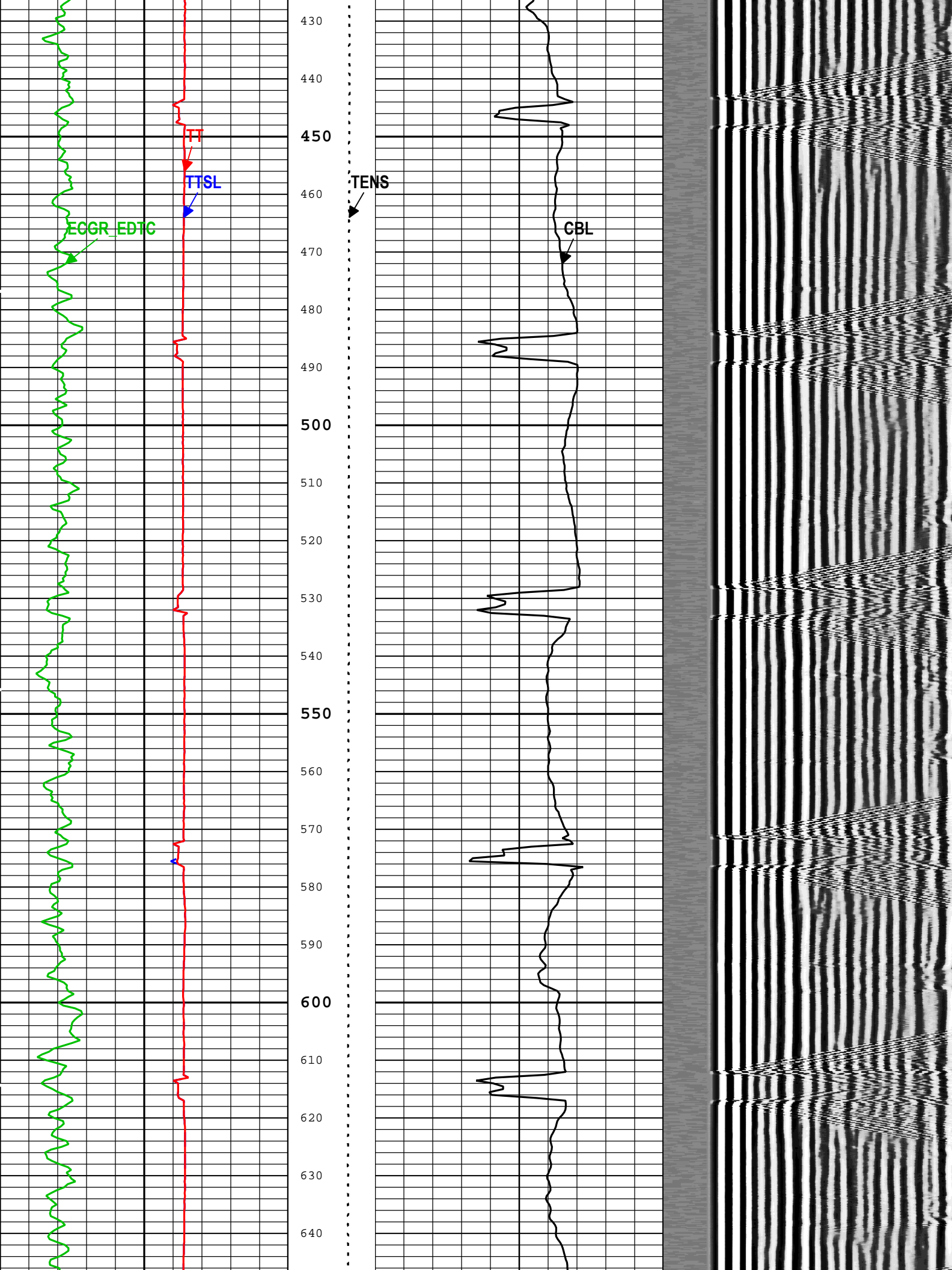
| Channel   | Source               | Sampling |
|-----------|----------------------|----------|
| TT        | DSLT-H:SLS-E:SLS-E   | 6in      |
| BIEP      | DSLT-H:SLS-E:SLS-E   | 6in      |
| CBL       | DSLT-H:SLS-E:SLS-E   | 6in      |
| GR        | EDTC-B:EDTC-B:EDTC-B | 6in      |
| TENS      | WLWorkflow           | 1in      |
| TIME_1900 | WLWorkflow           | 0.1in    |
| TTSL      | DSLT-H:SLS-E:SLS-E   | 6in      |

TIME\_1900 - Time Marked every 60.00 (s)

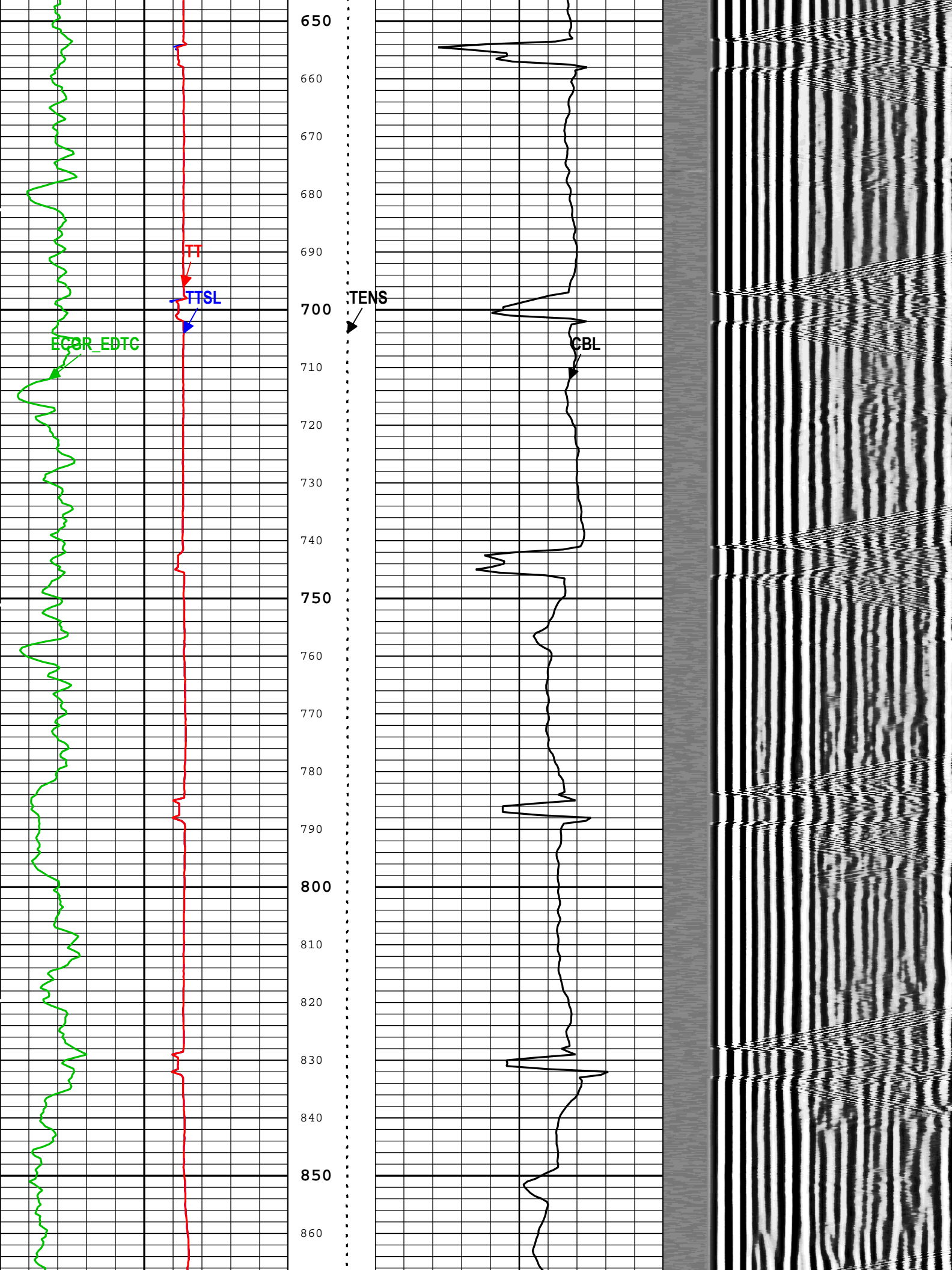


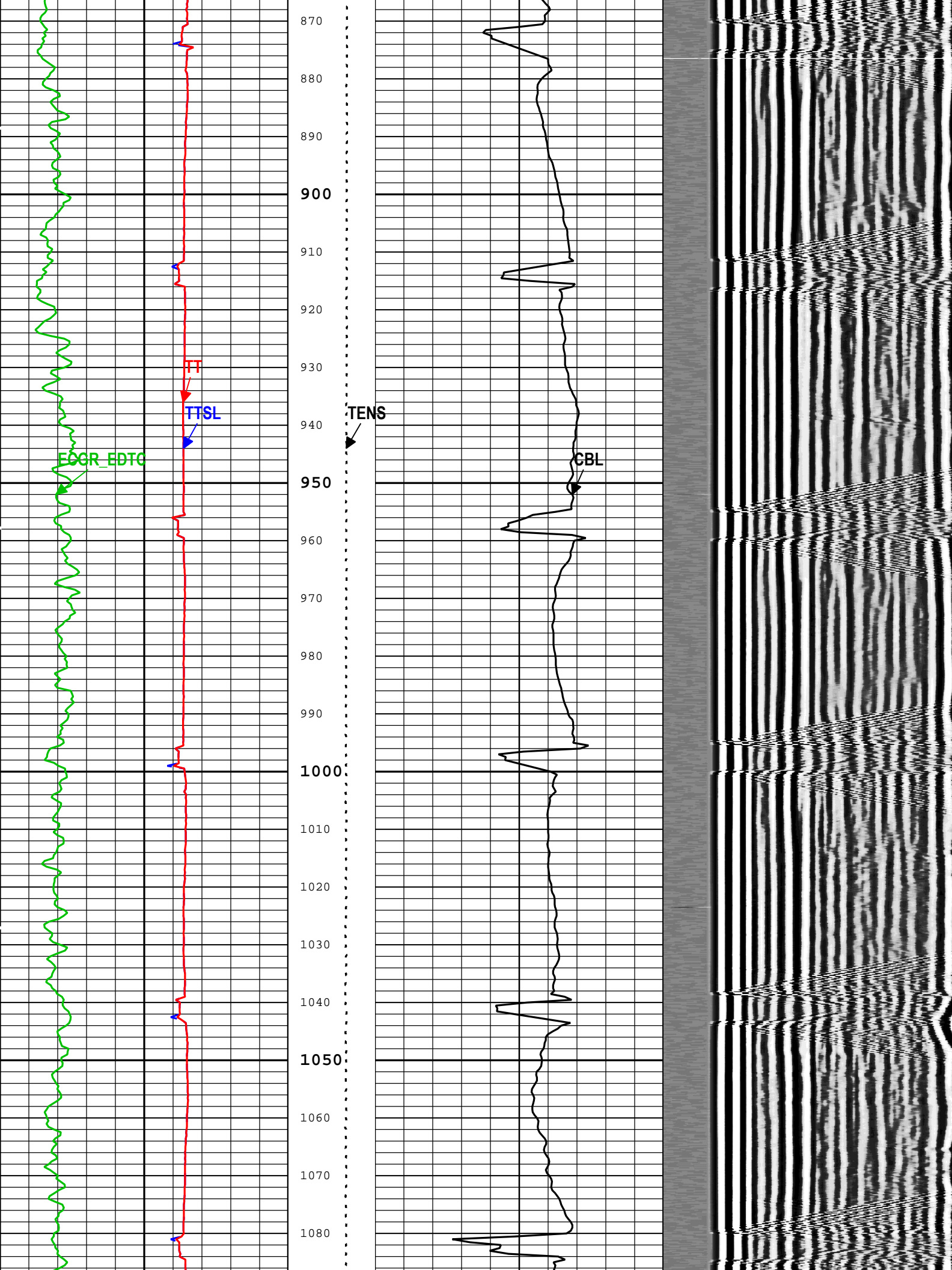


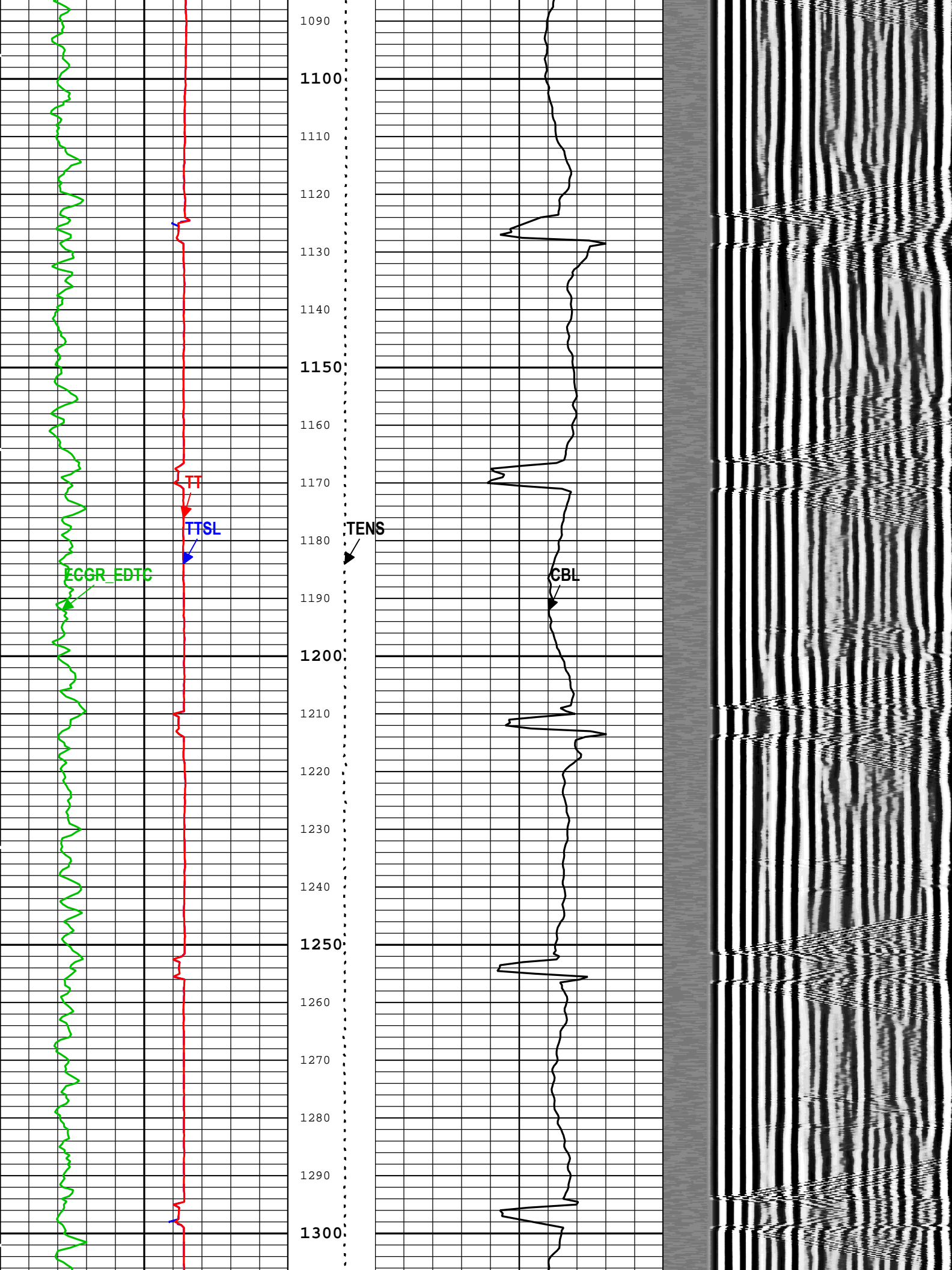




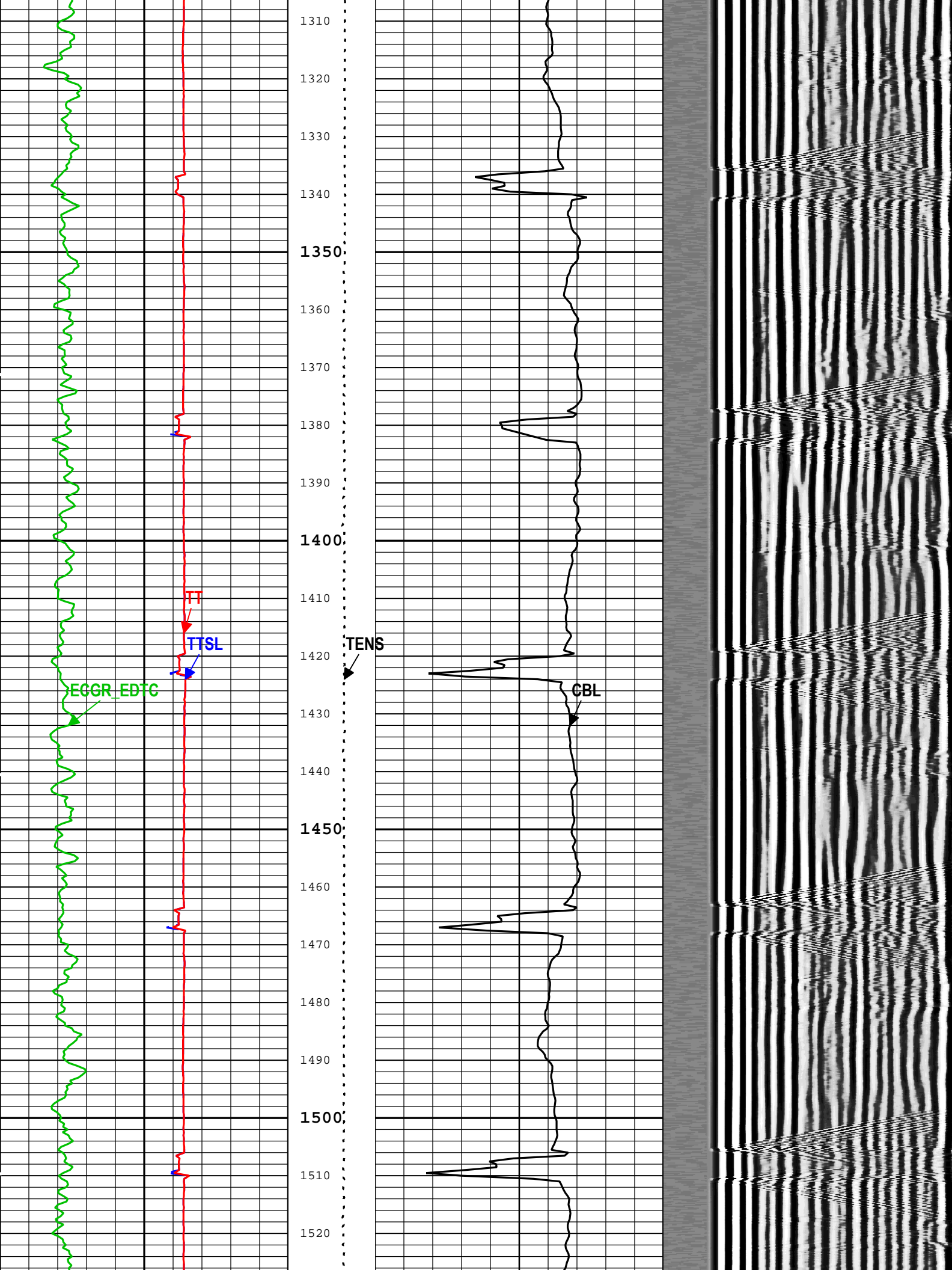


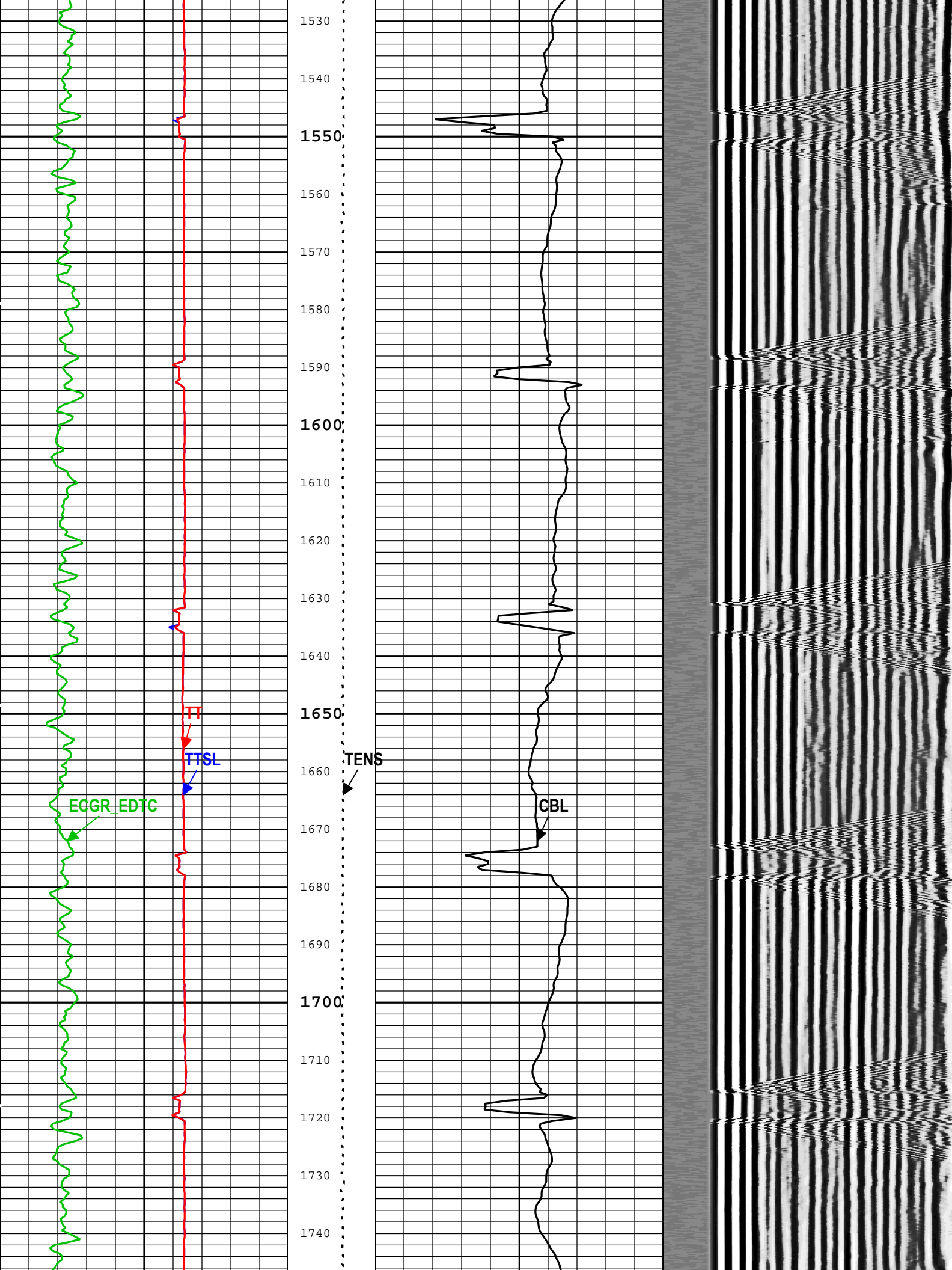


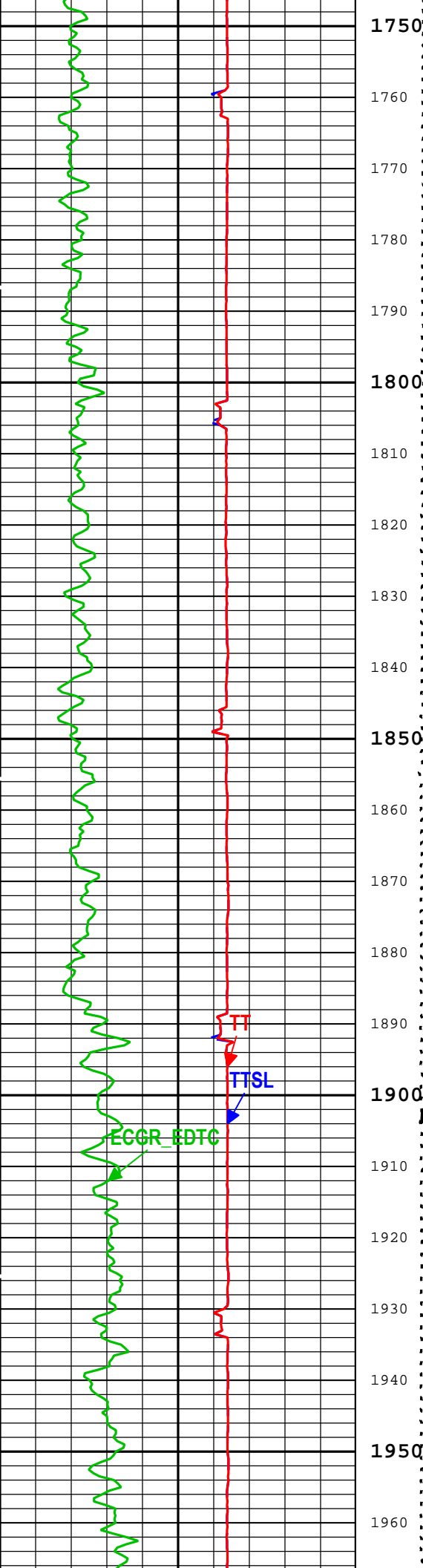




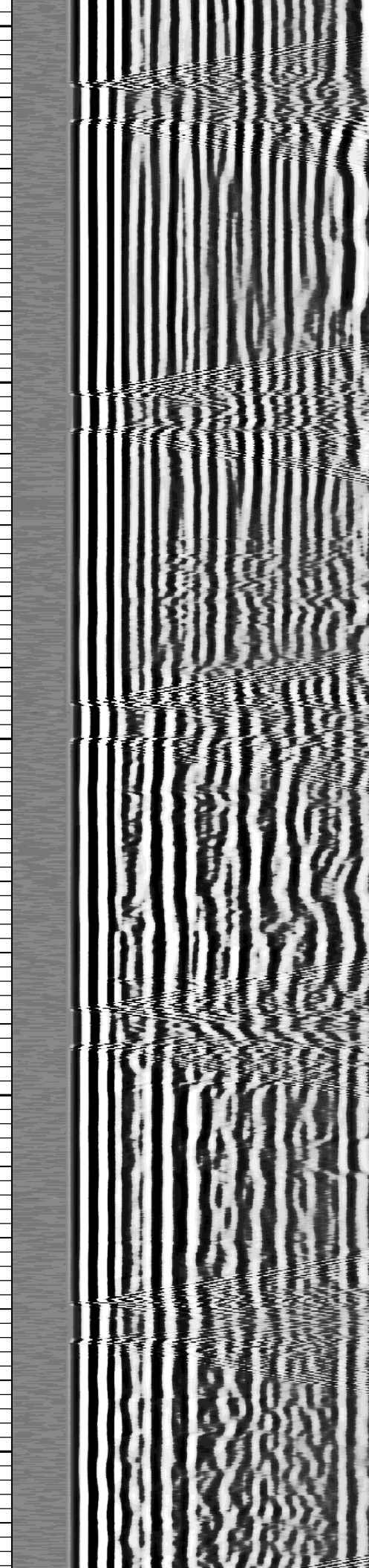
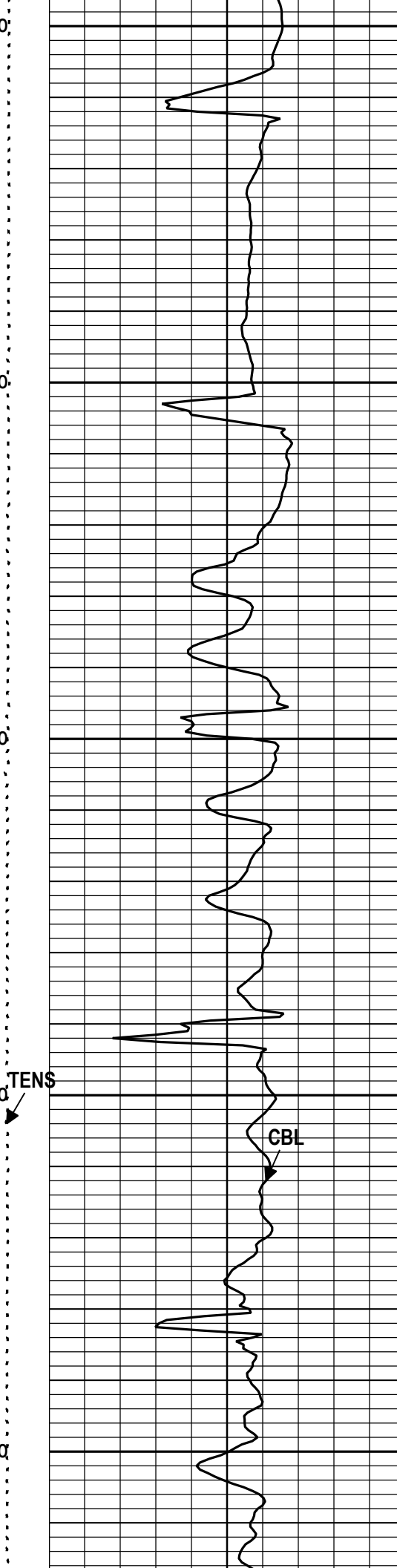




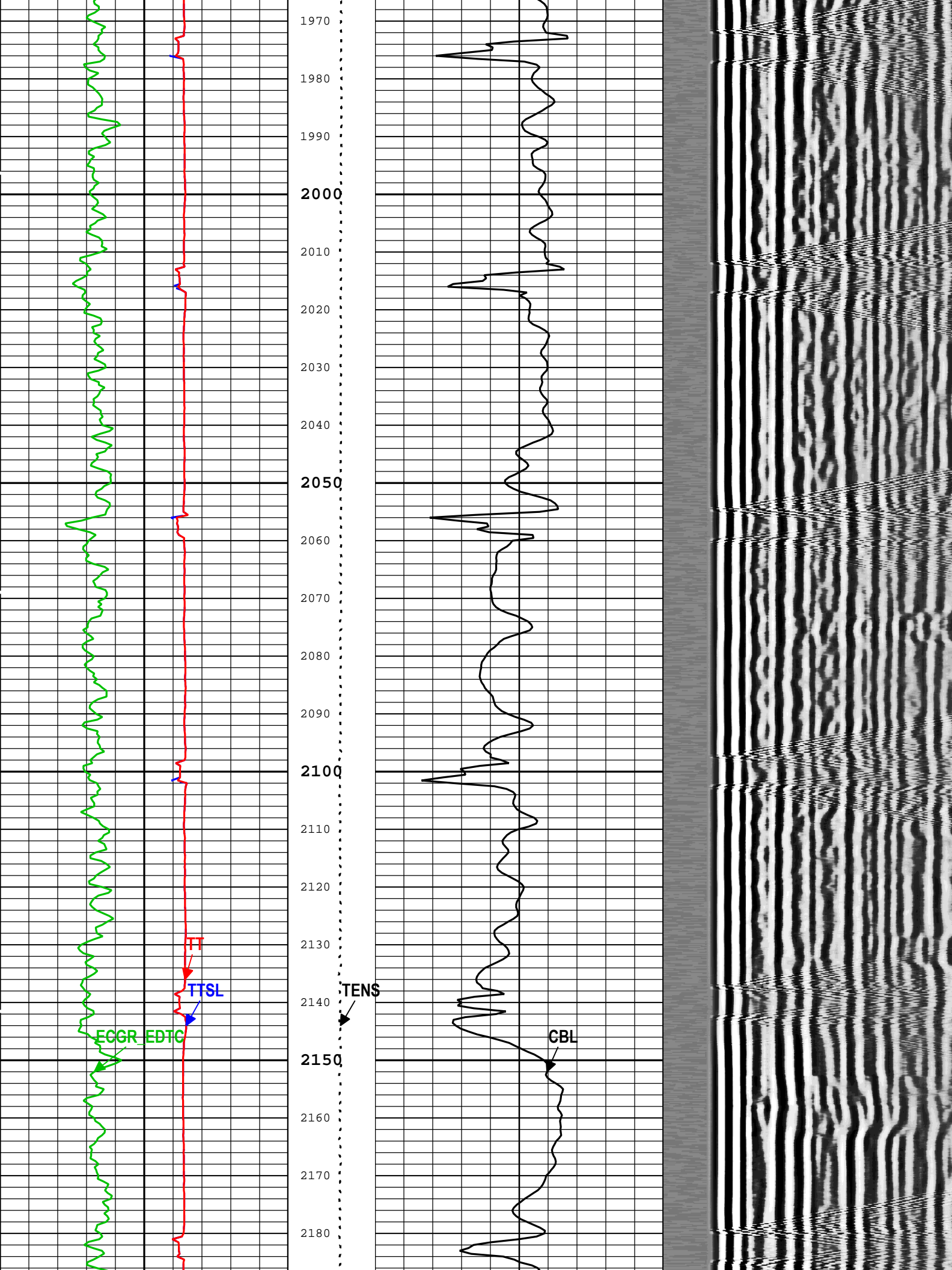




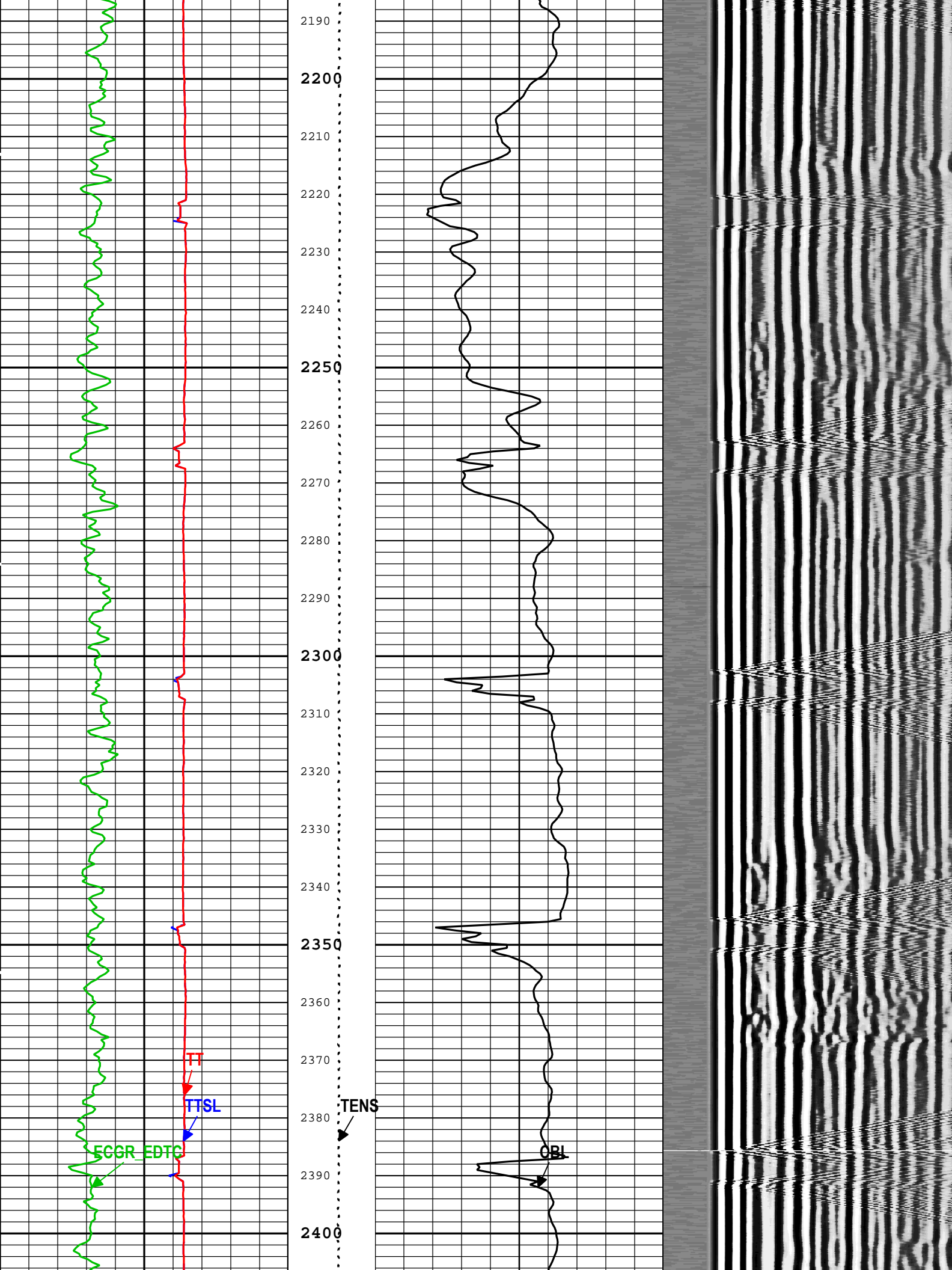
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1930  
1940  
1950  
1960

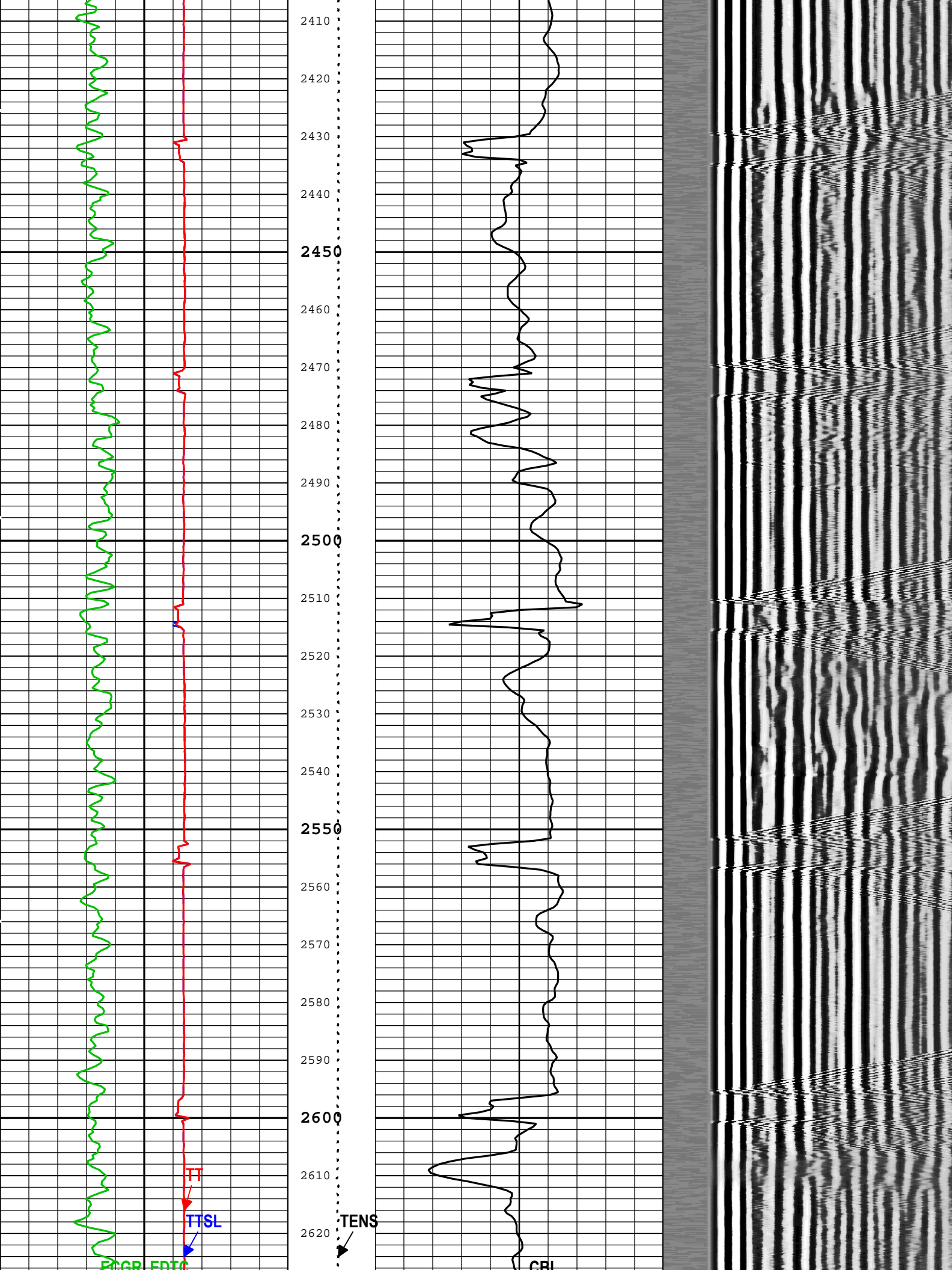


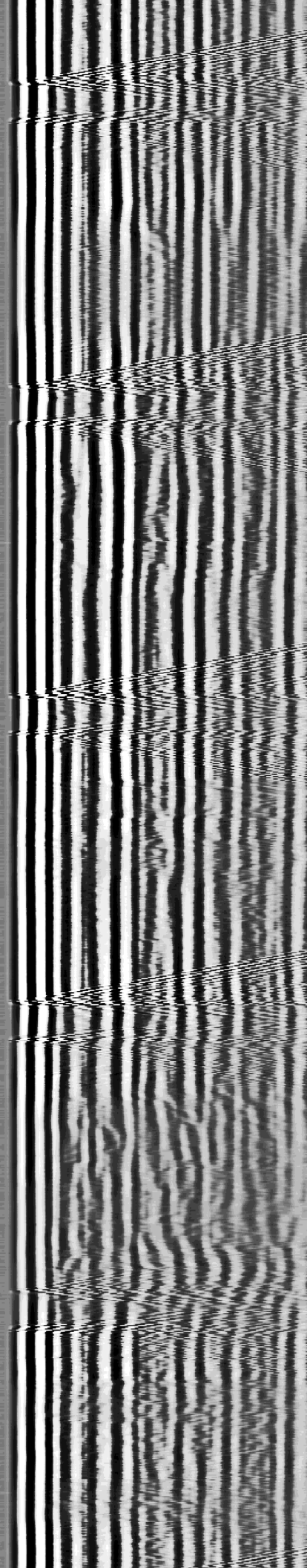
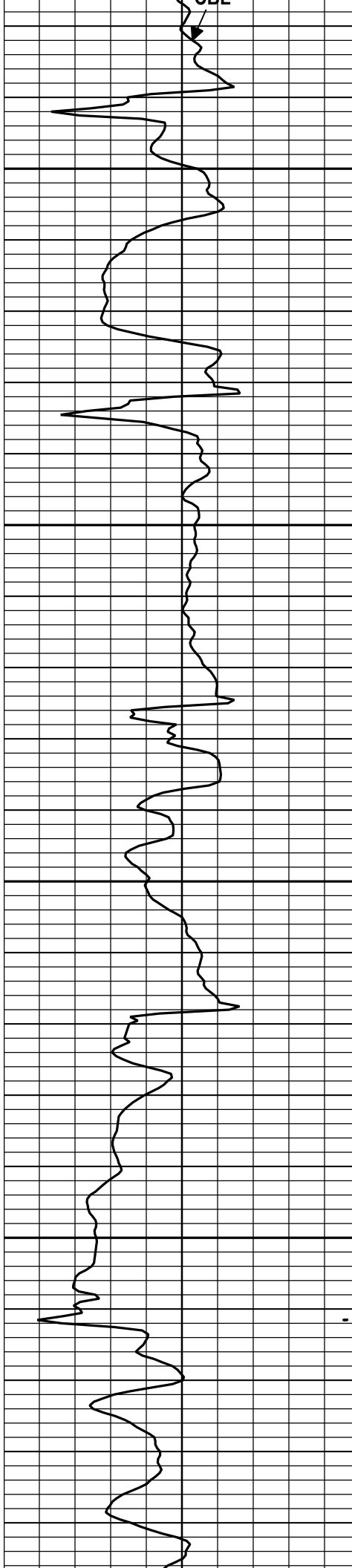
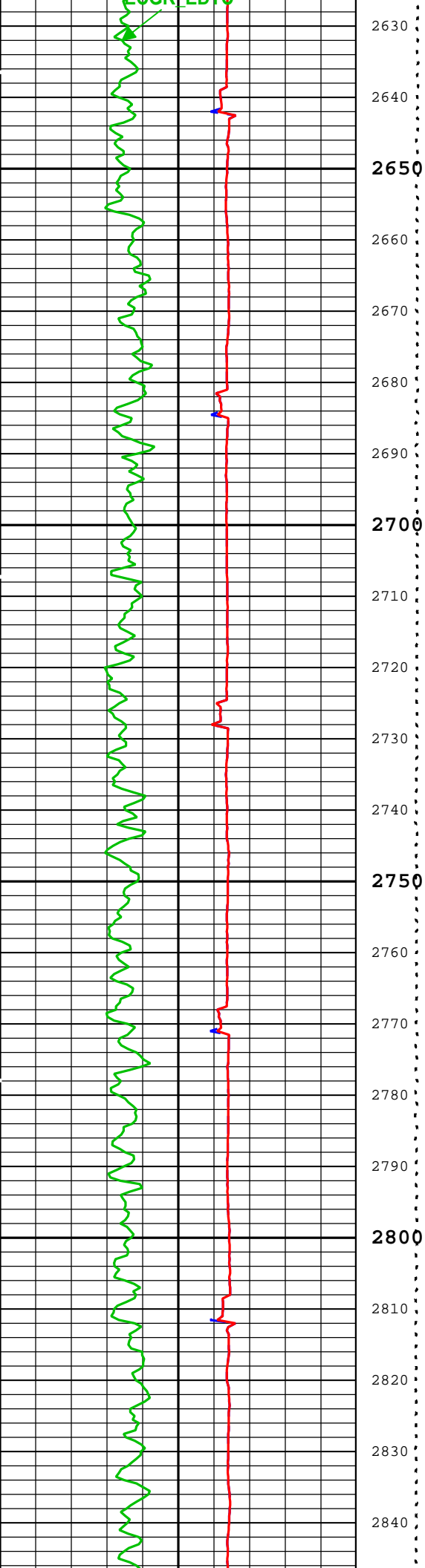




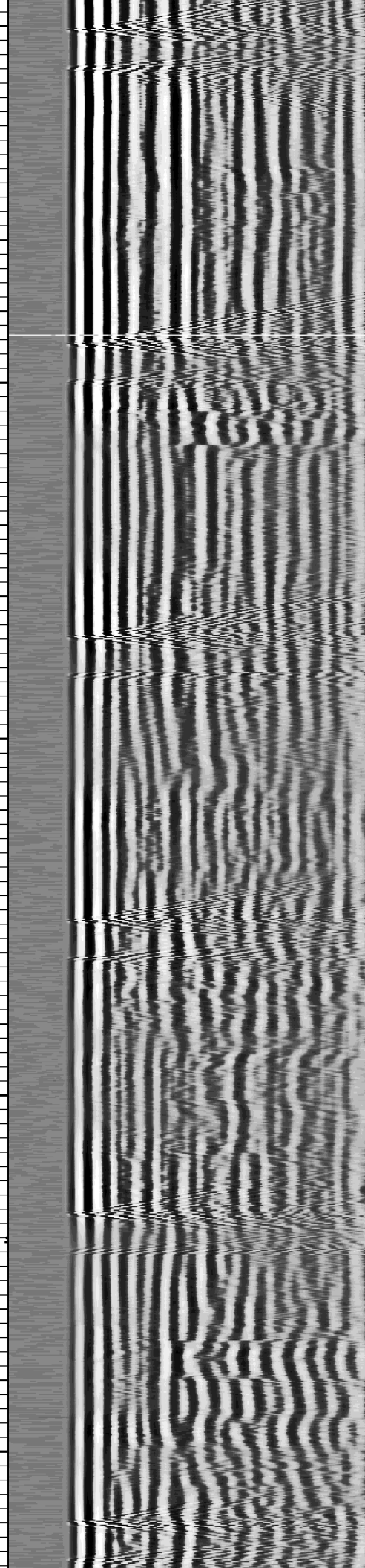
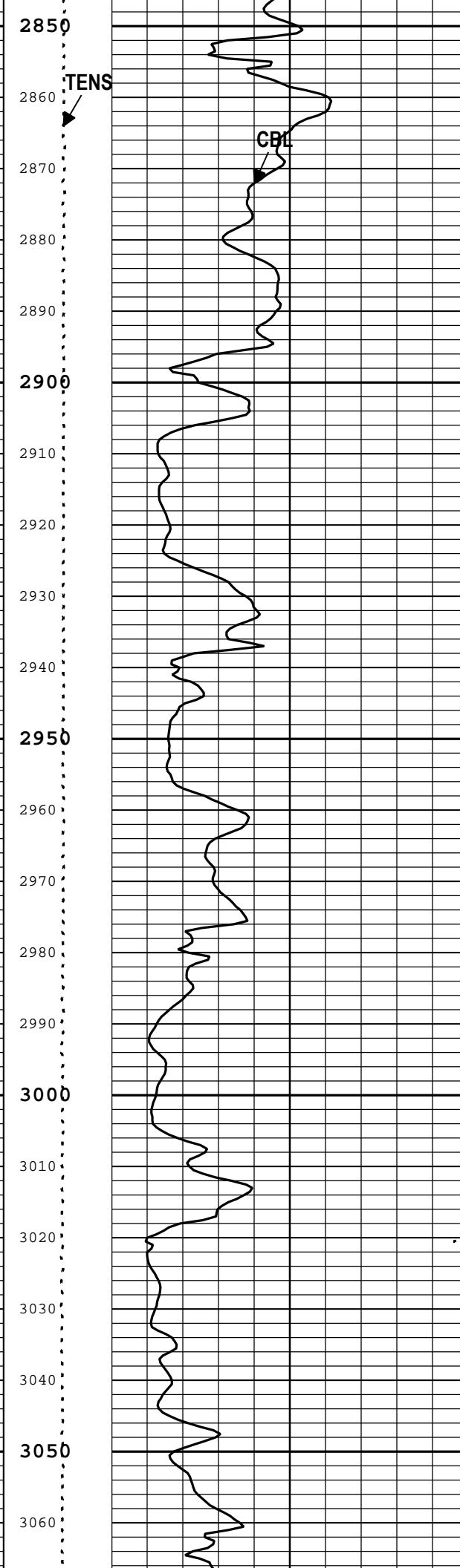
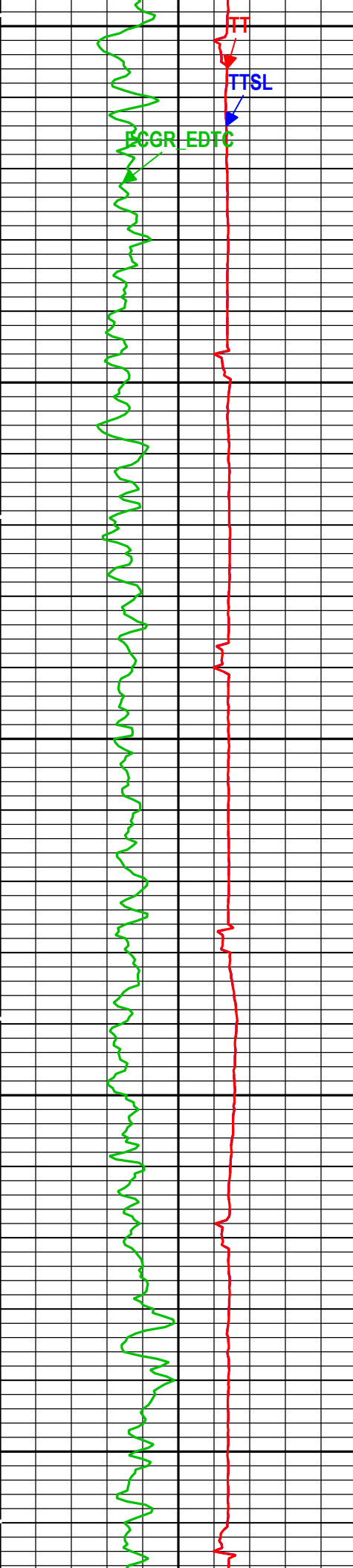


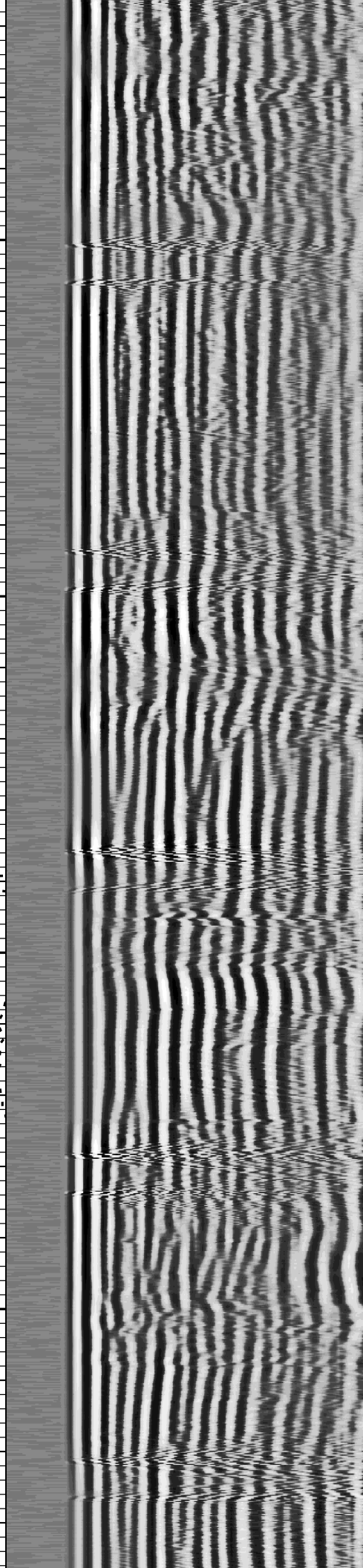
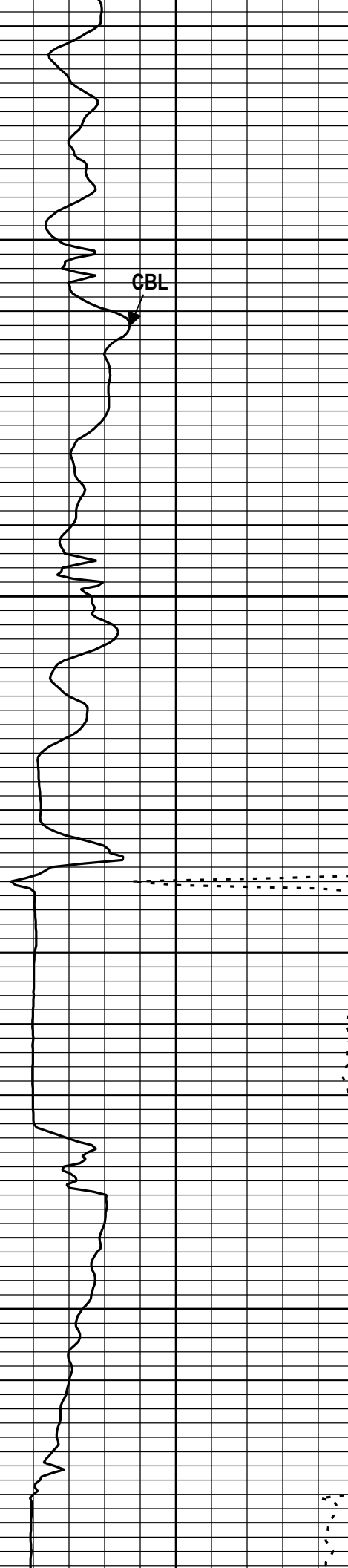
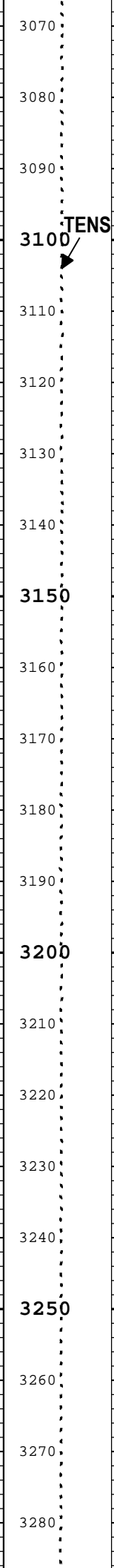
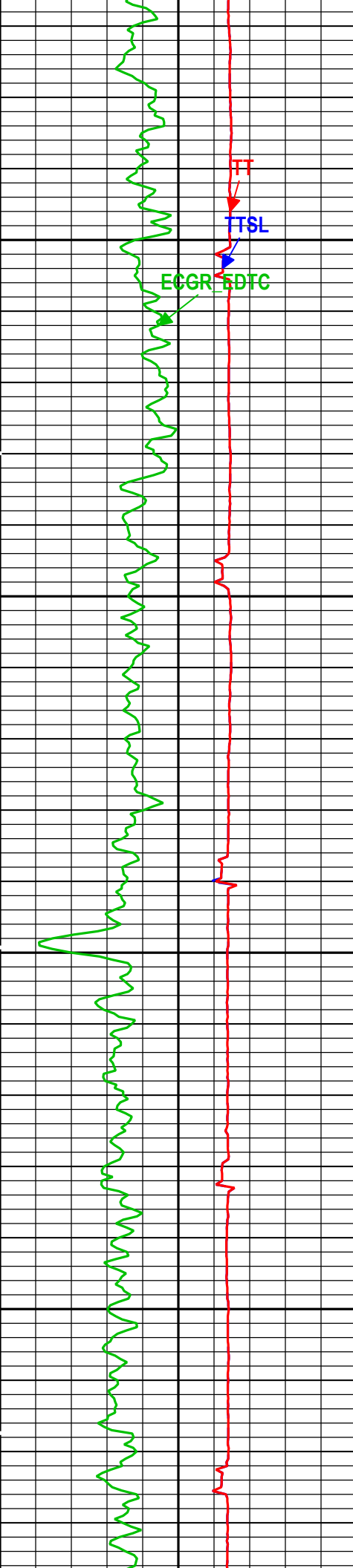


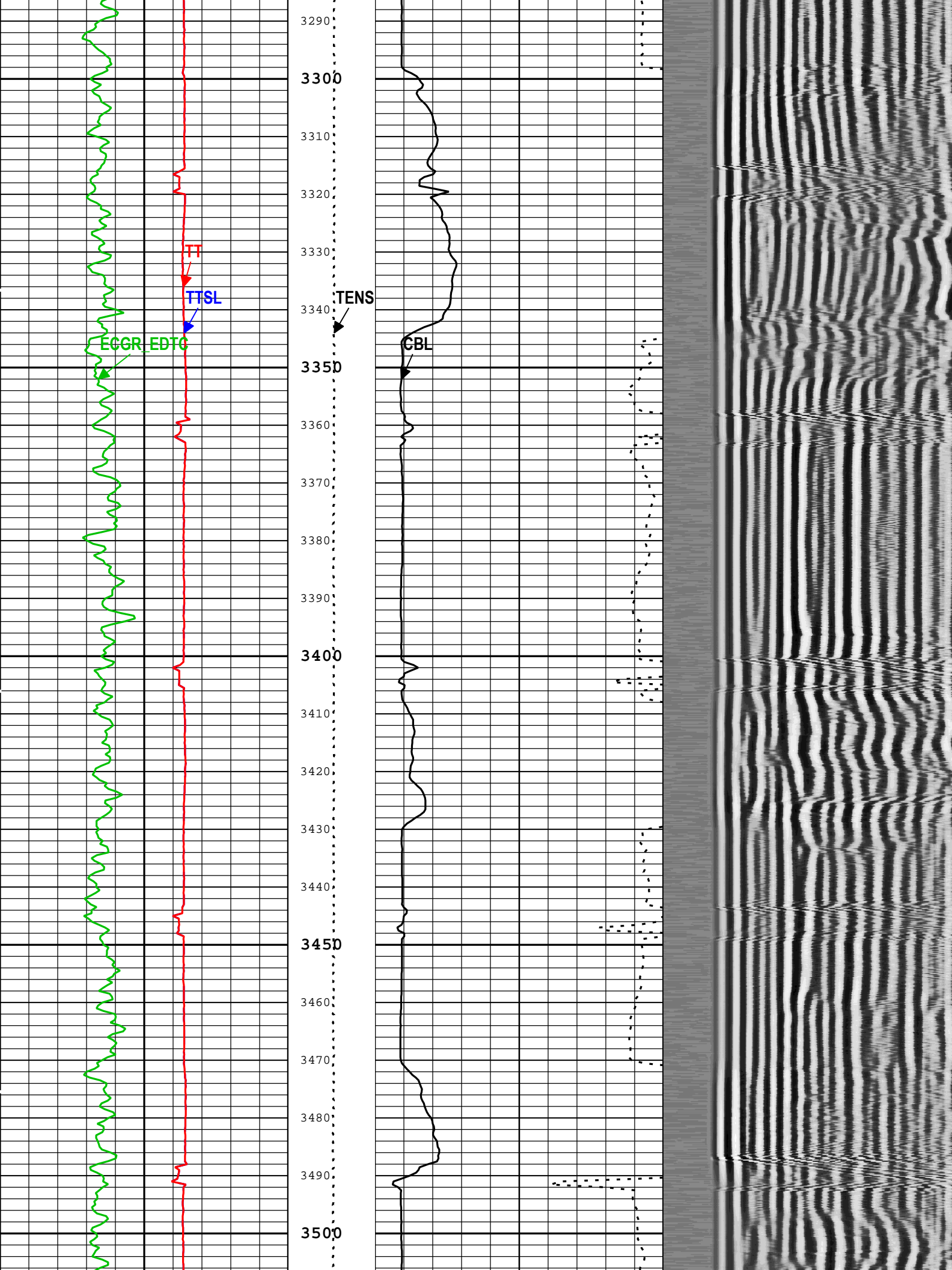




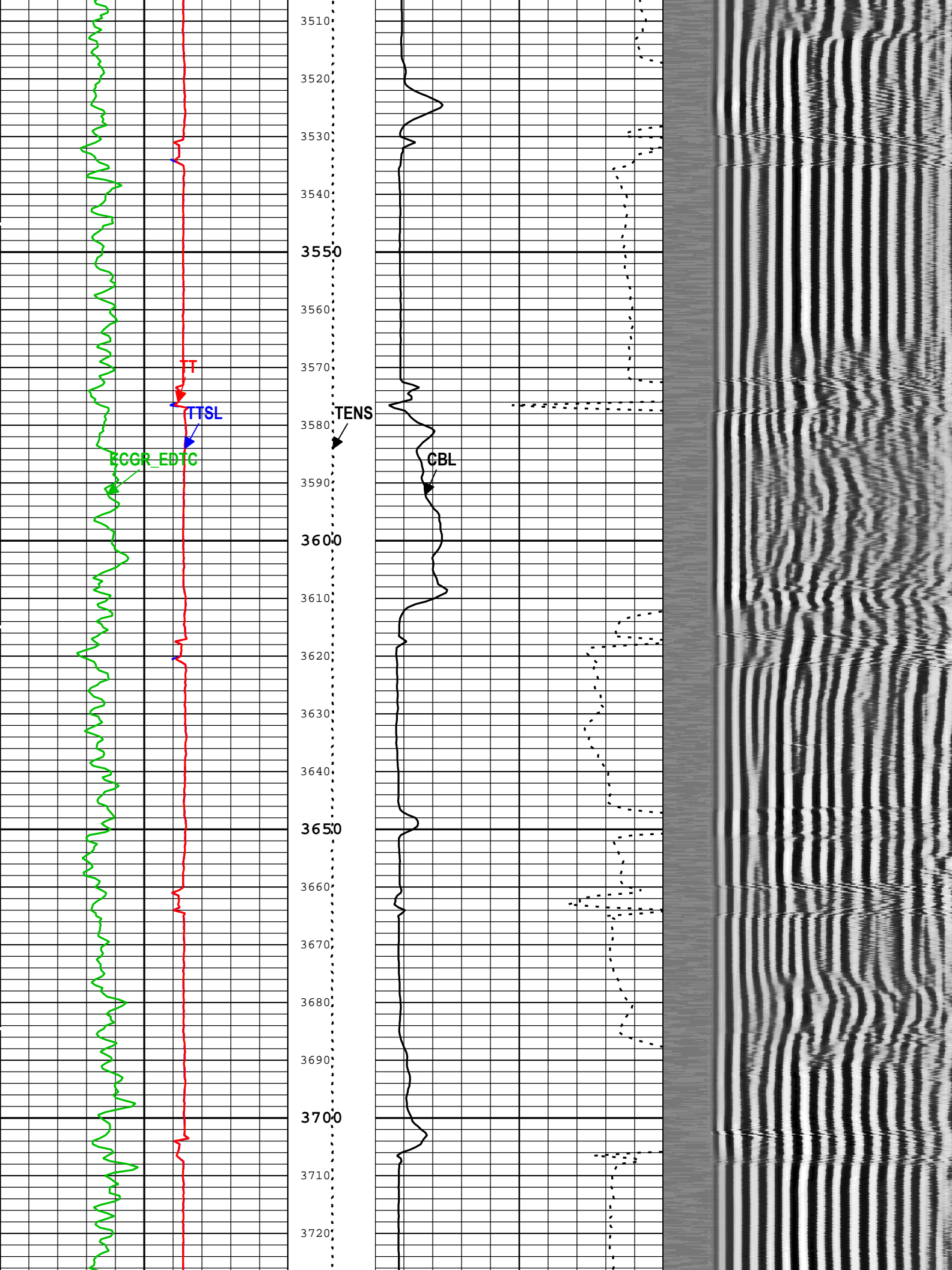




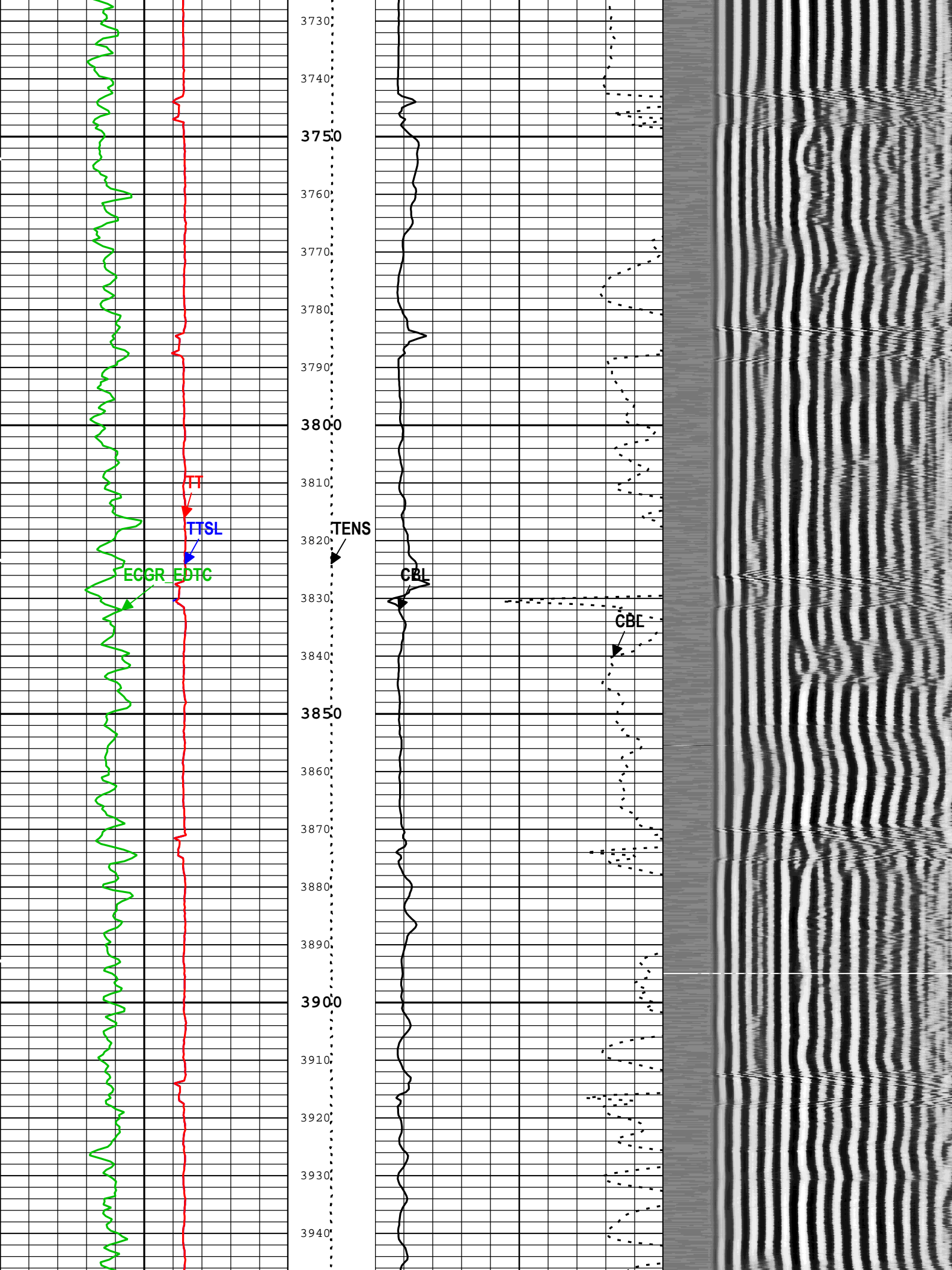


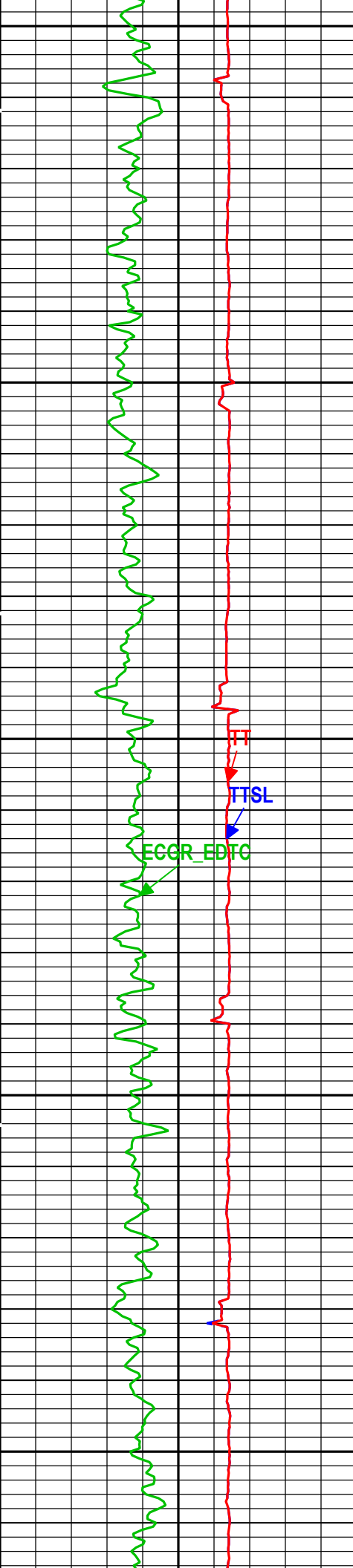












3950

3960

3970

3980

3990

4000

4010

4020

4030

4040

4050

4060 TENS

4070

4080

4090

4100

4110

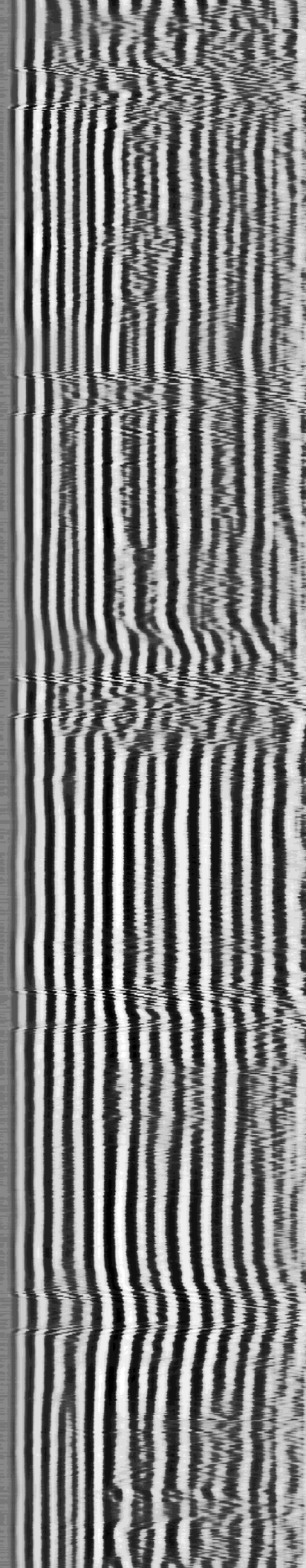
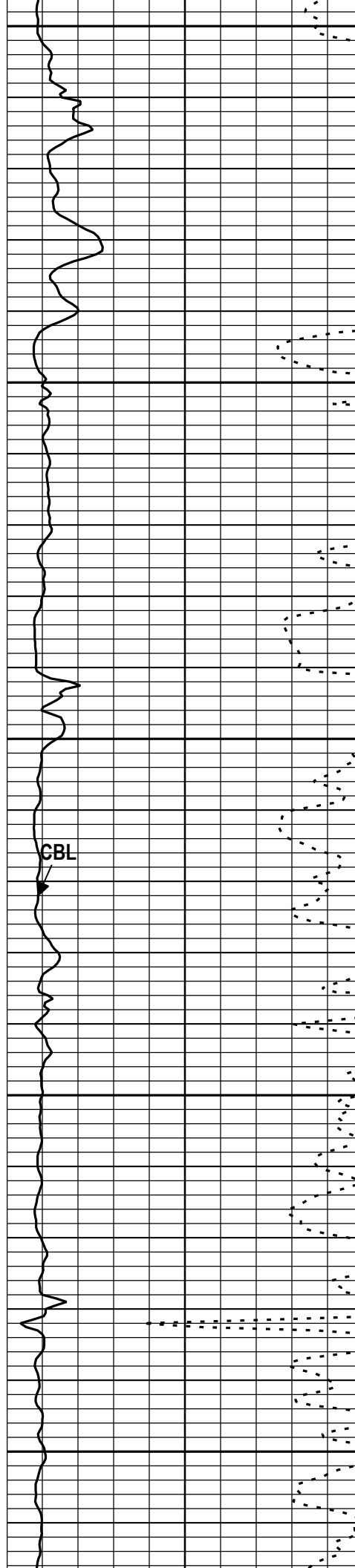
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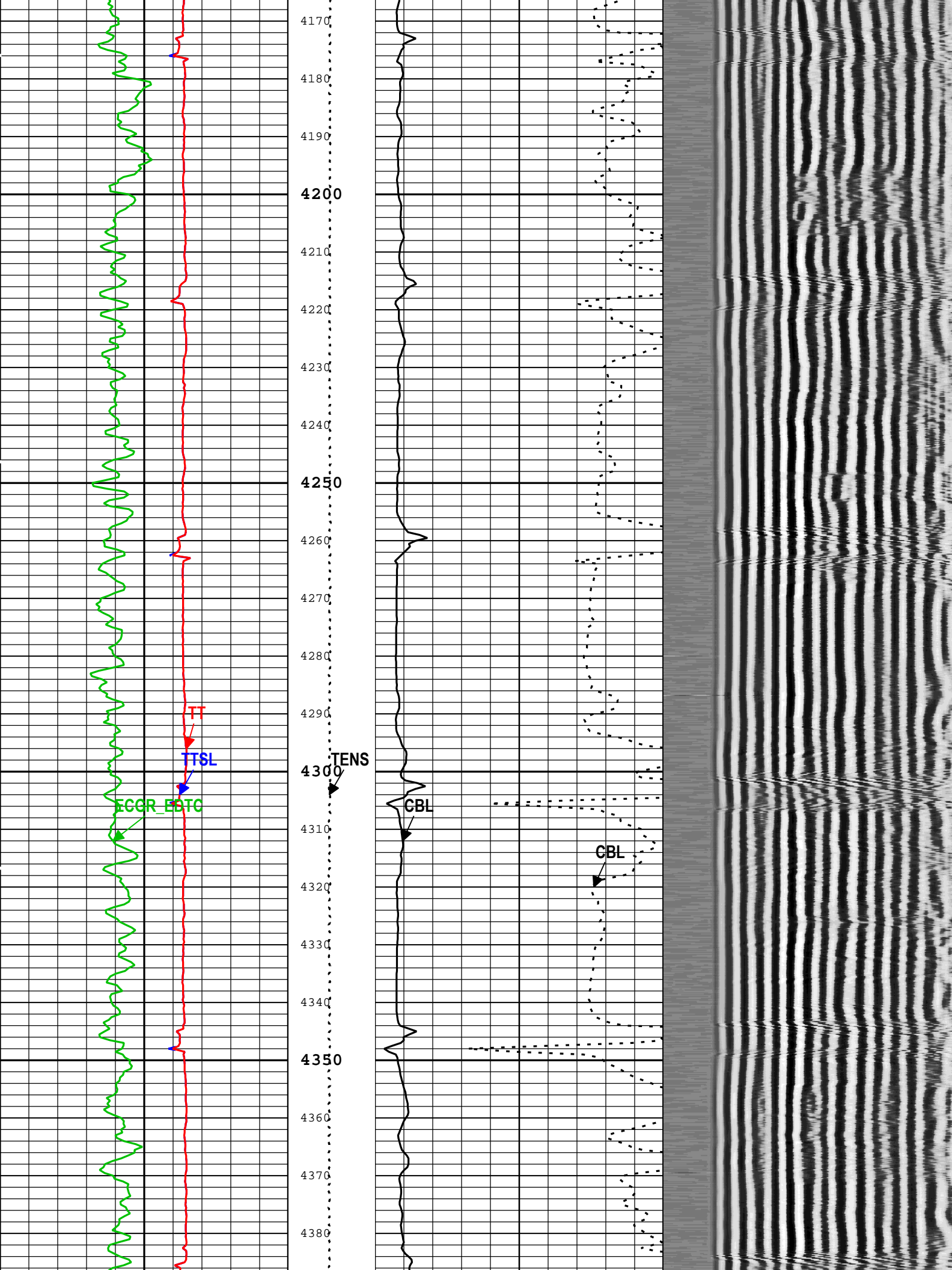
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4140

4150

4160

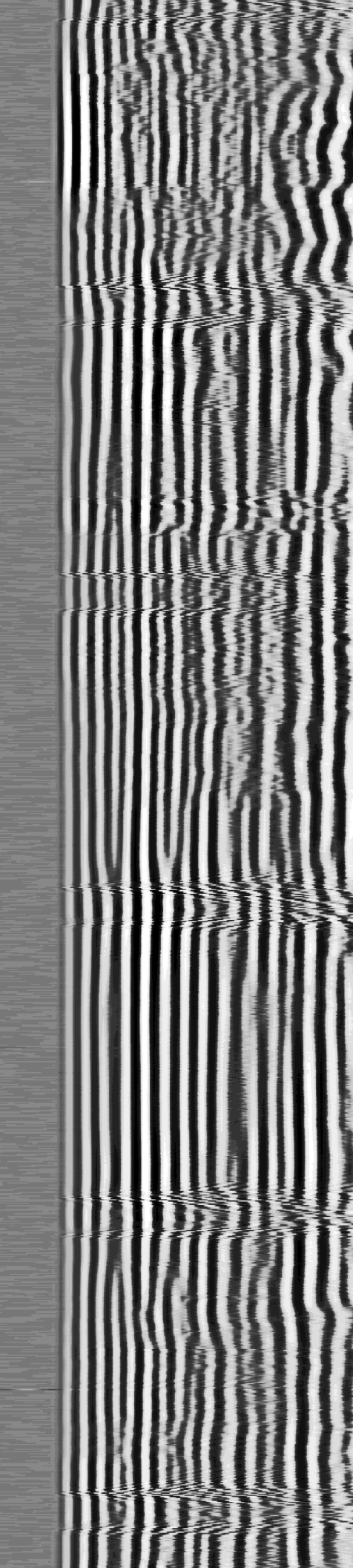
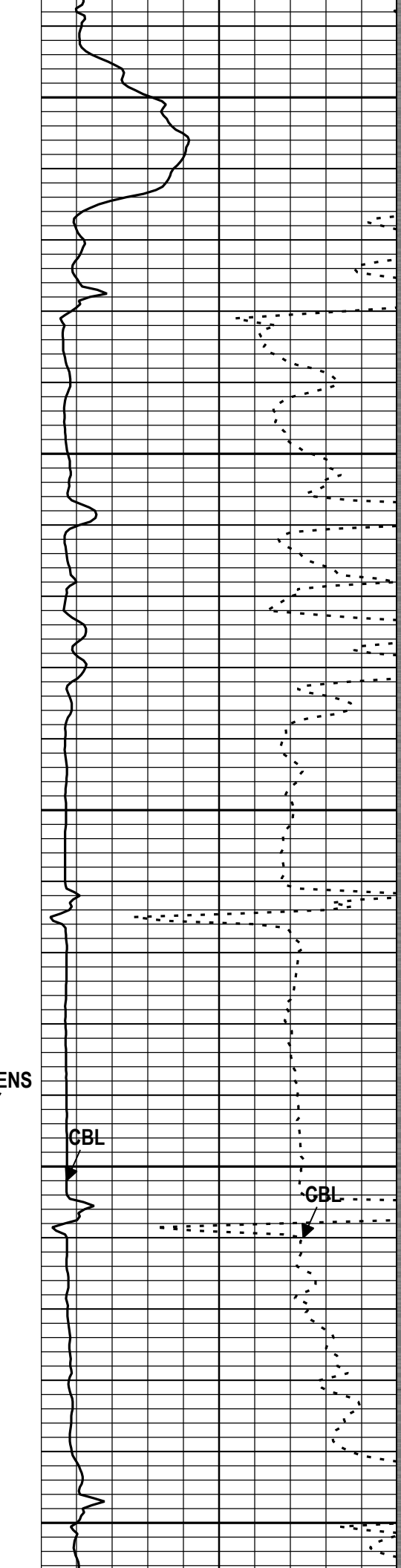








4390  
4400  
4410  
4420  
4430  
4440  
4450  
4460  
4470  
4480  
4490  
4500  
4510  
4520  
4530  
4540  
4550  
4560  
4570  
4580  
4590  
4600



TT

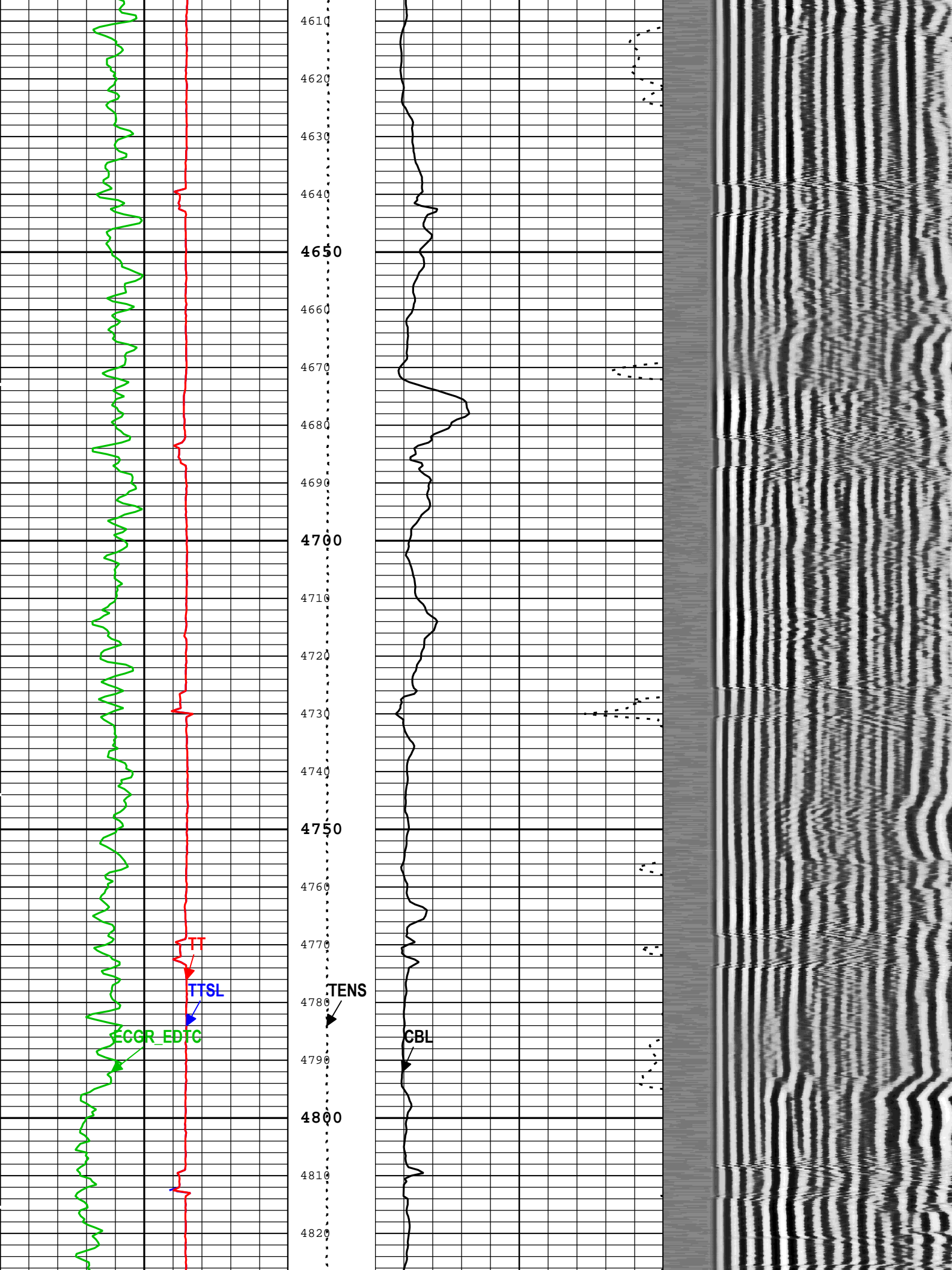
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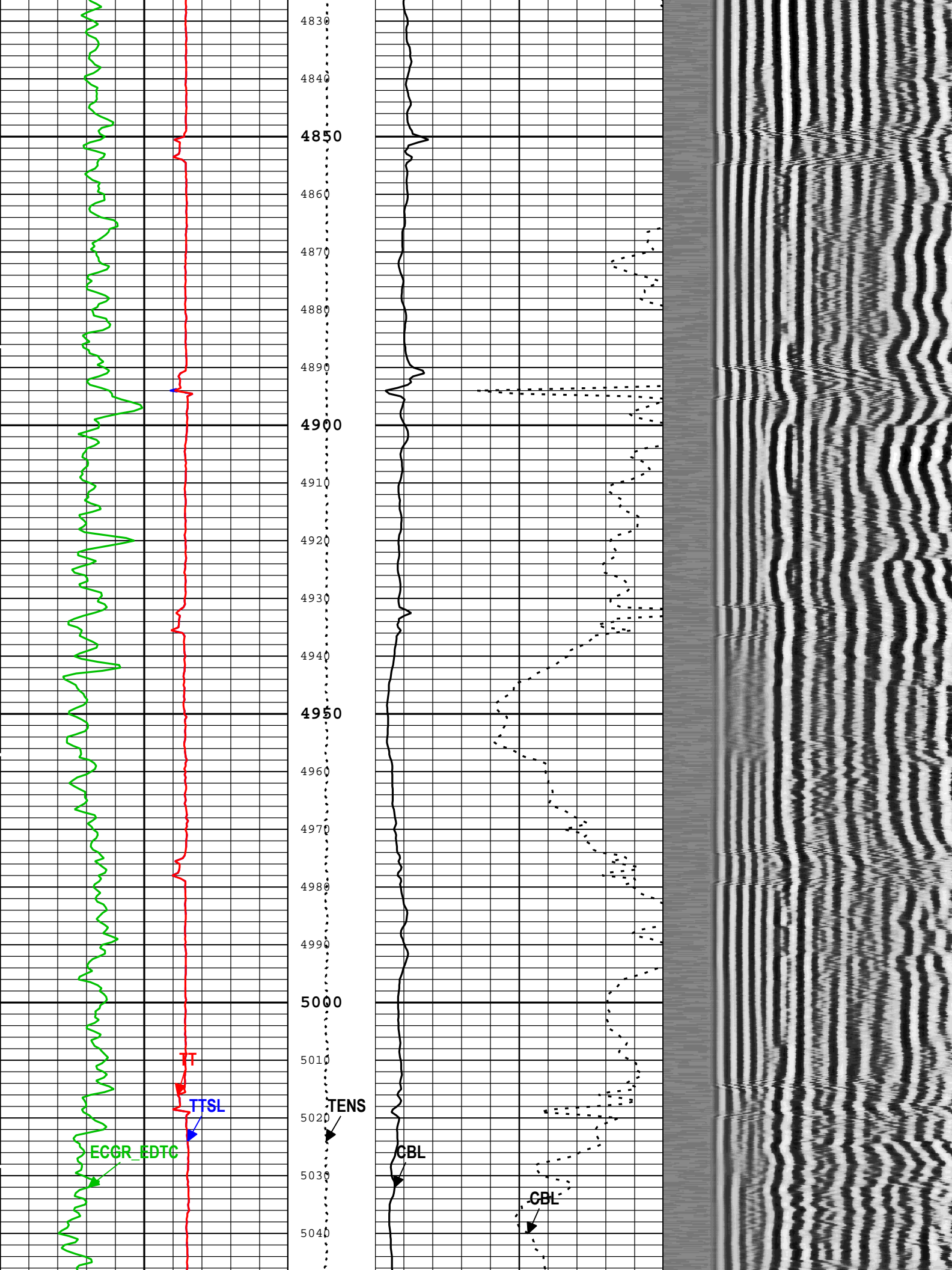
ECGR EDTC

TENS

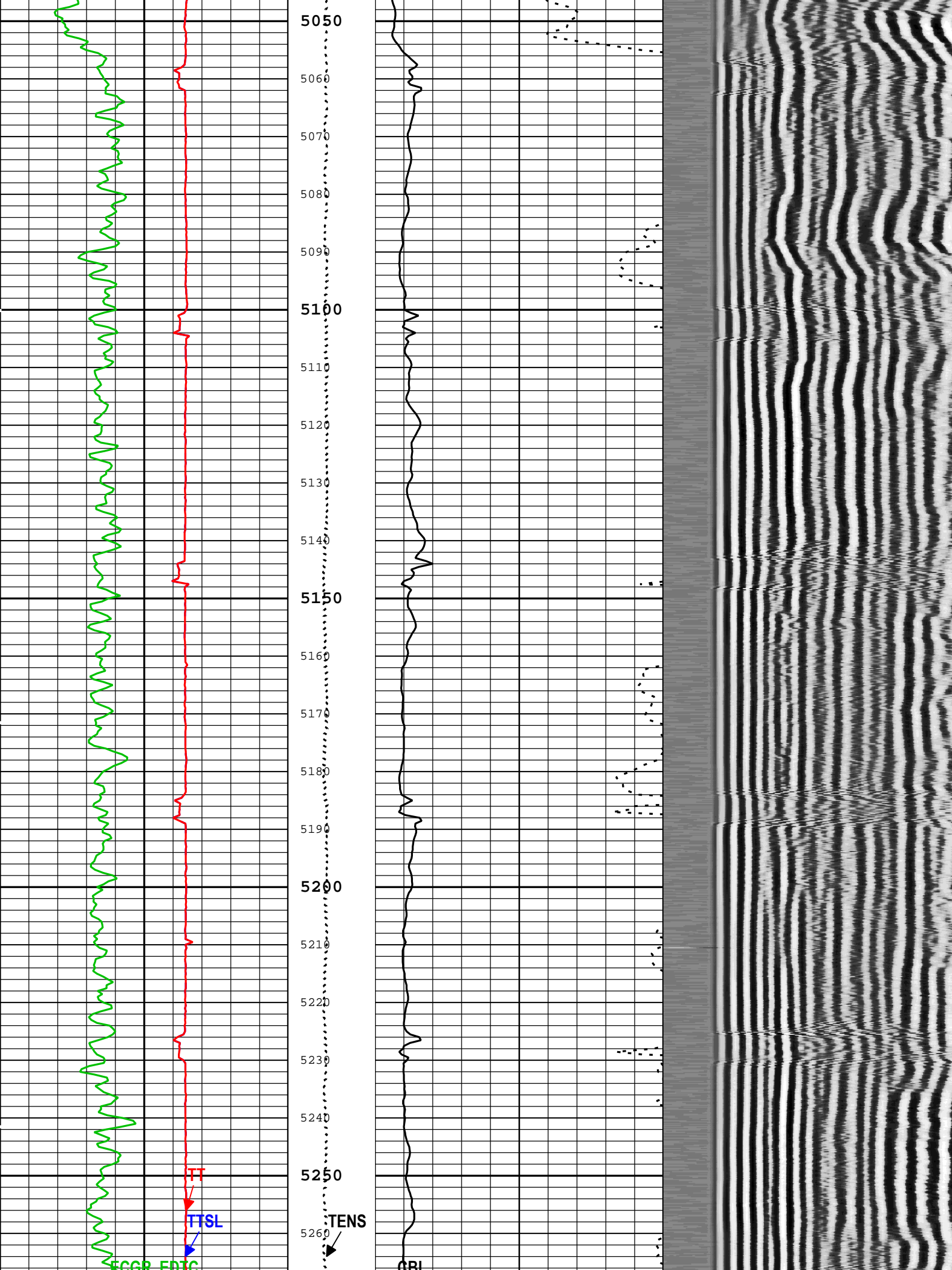
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GBL

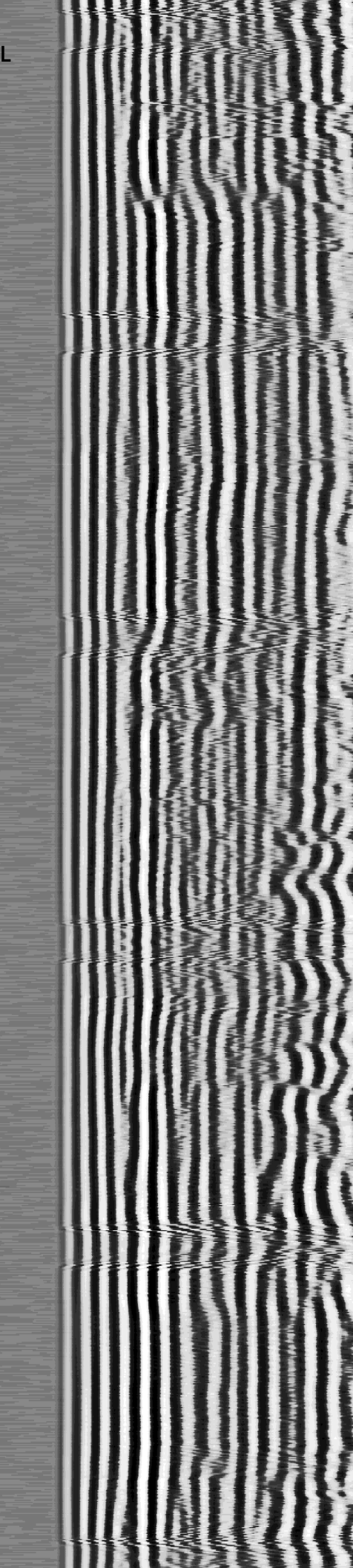
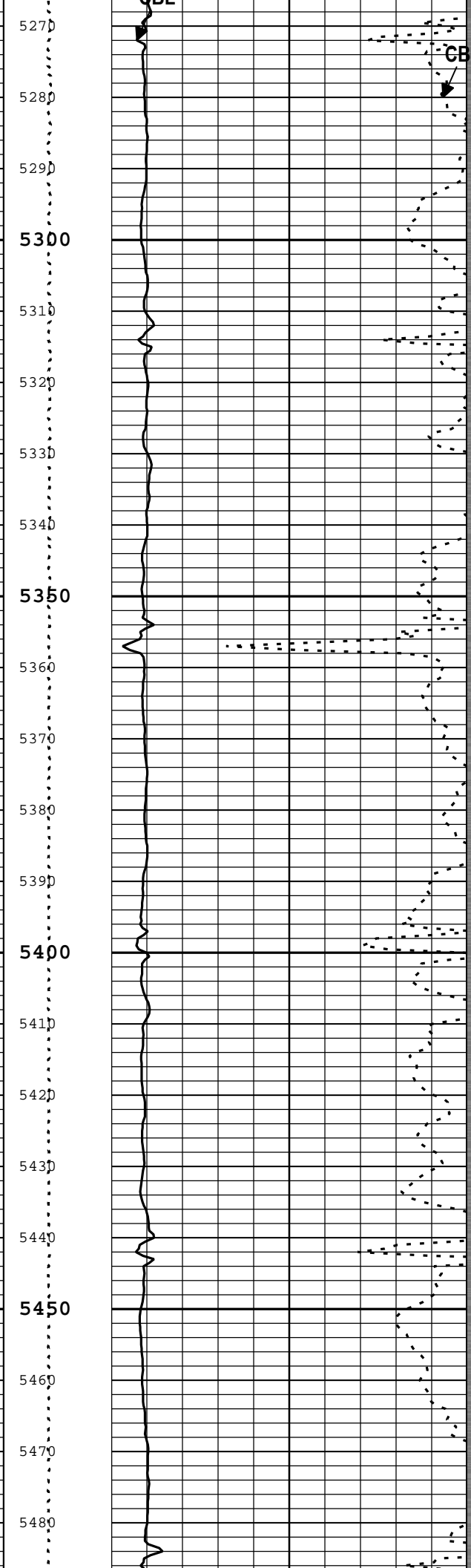
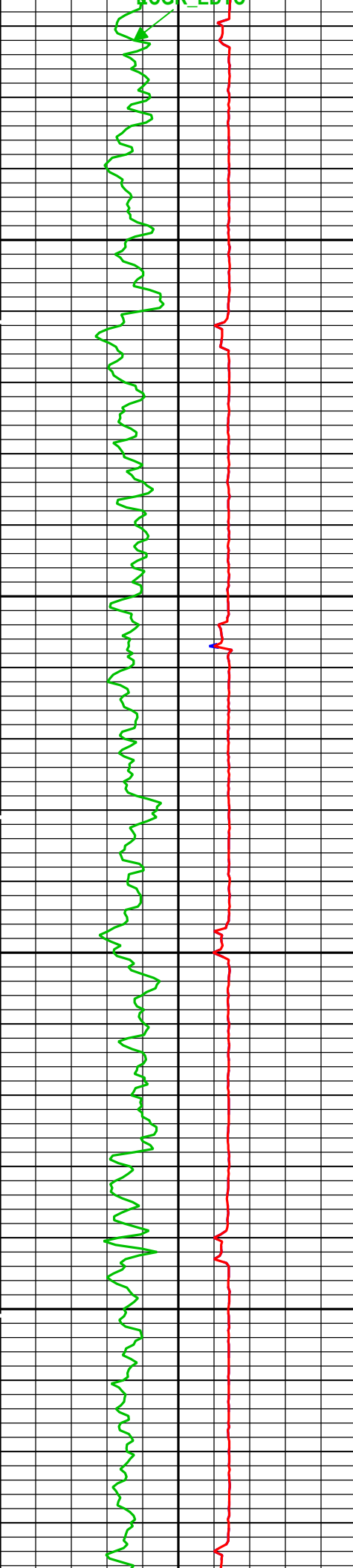


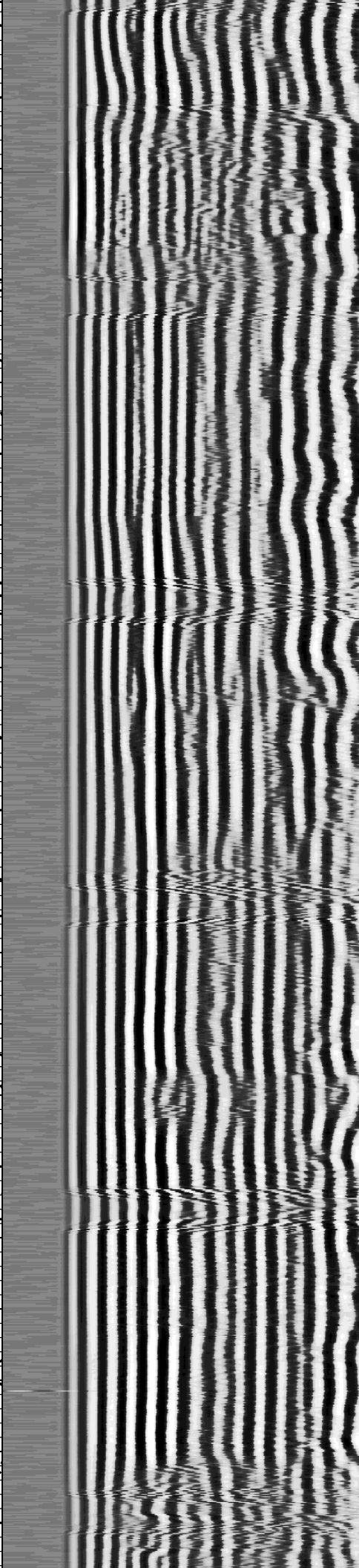
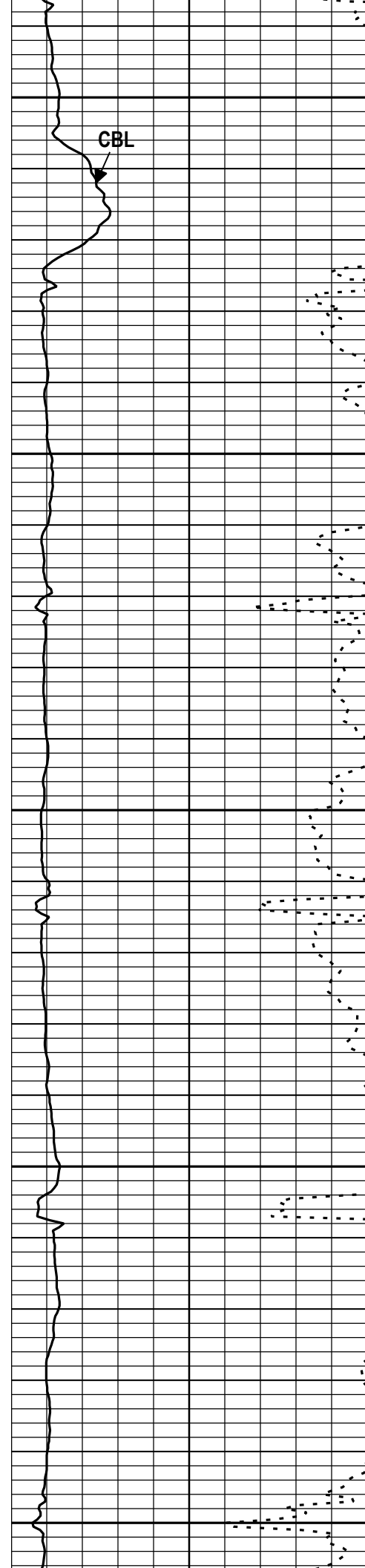
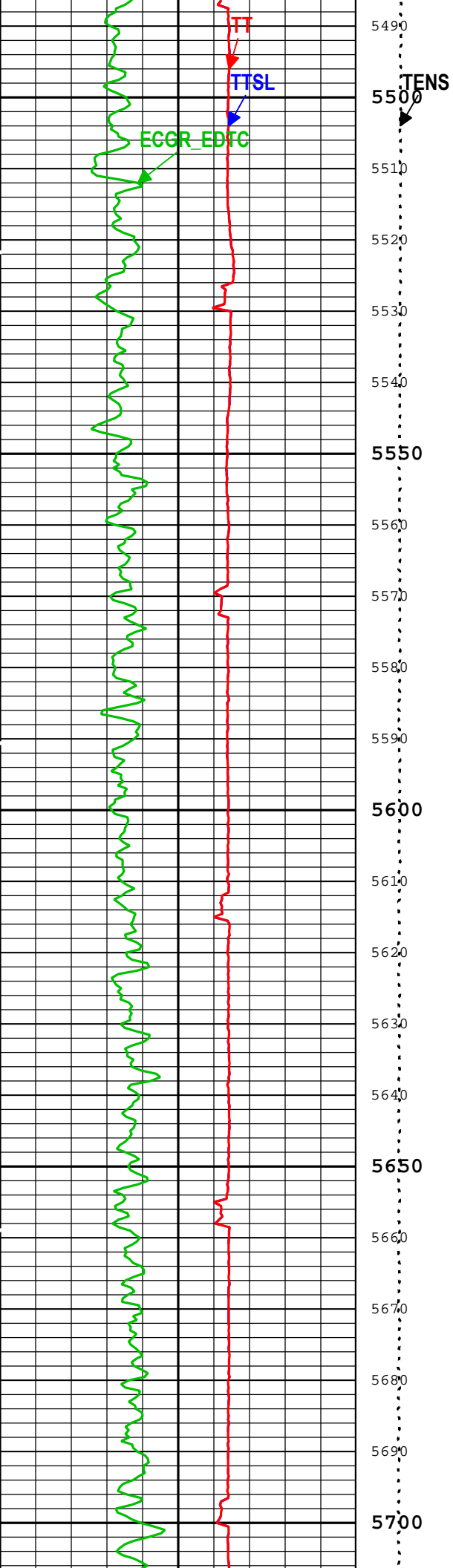


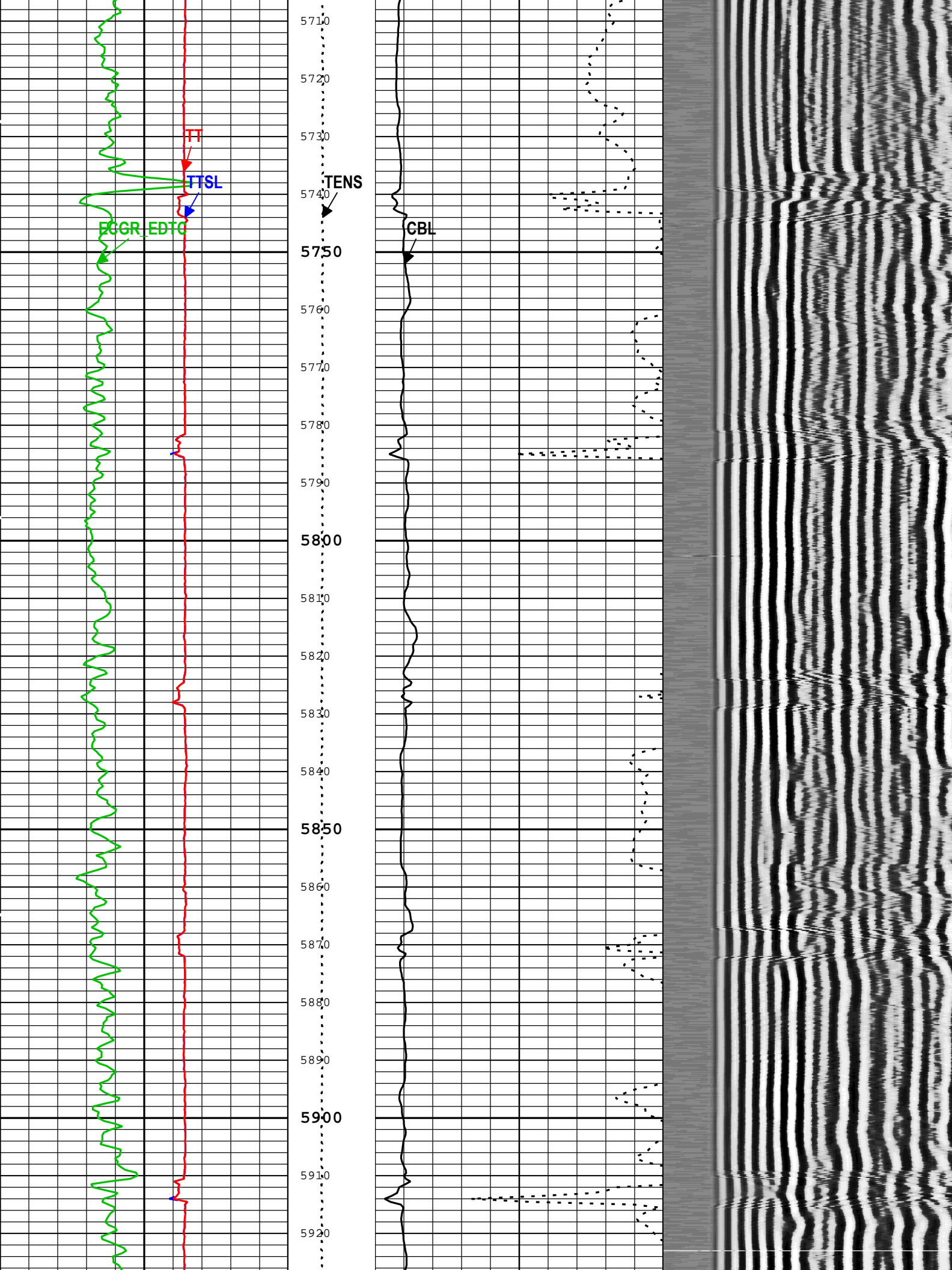








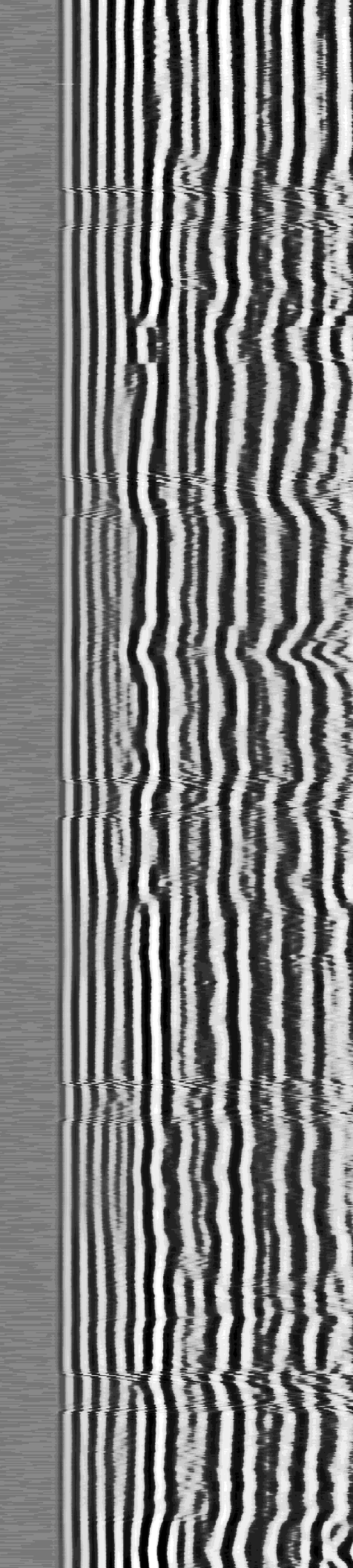
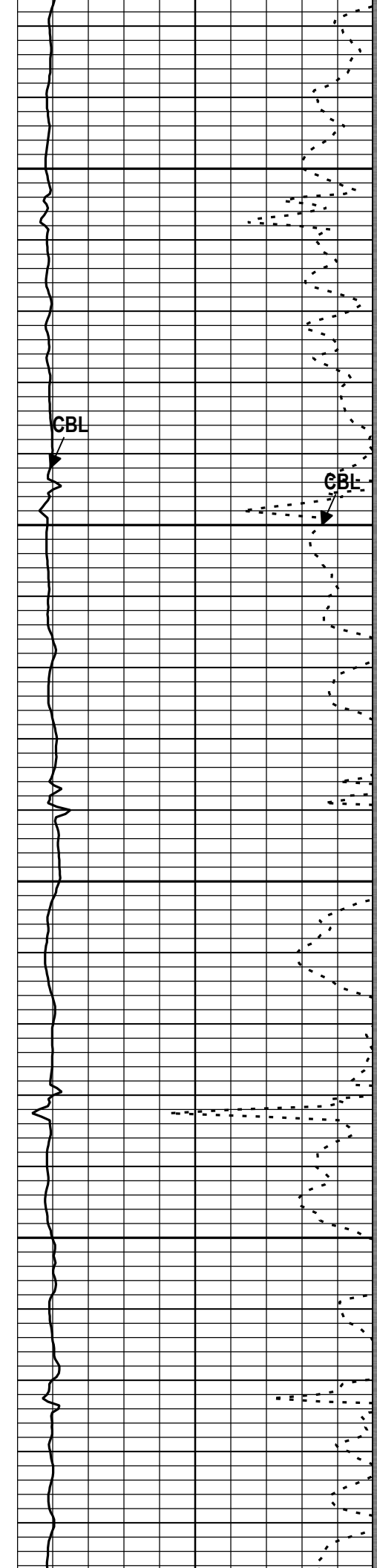


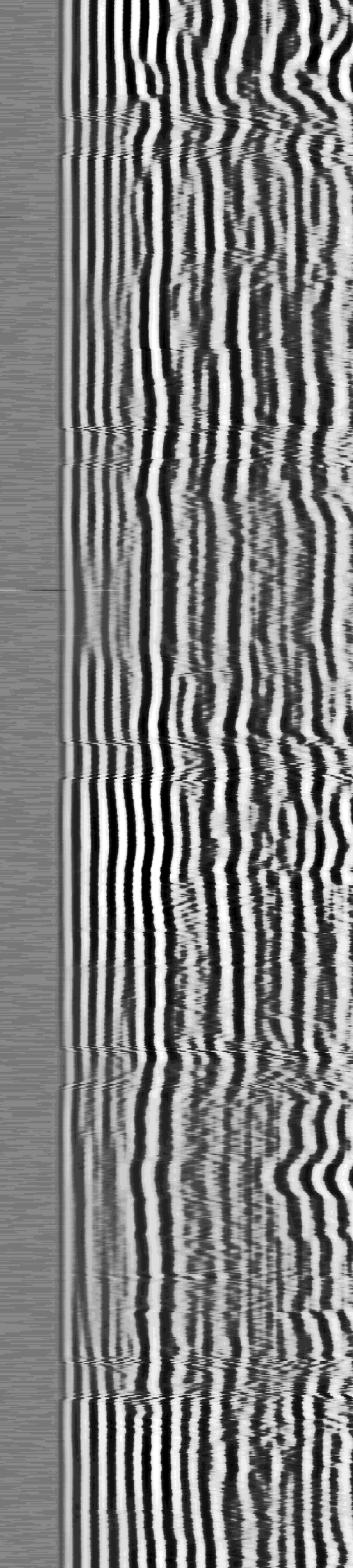
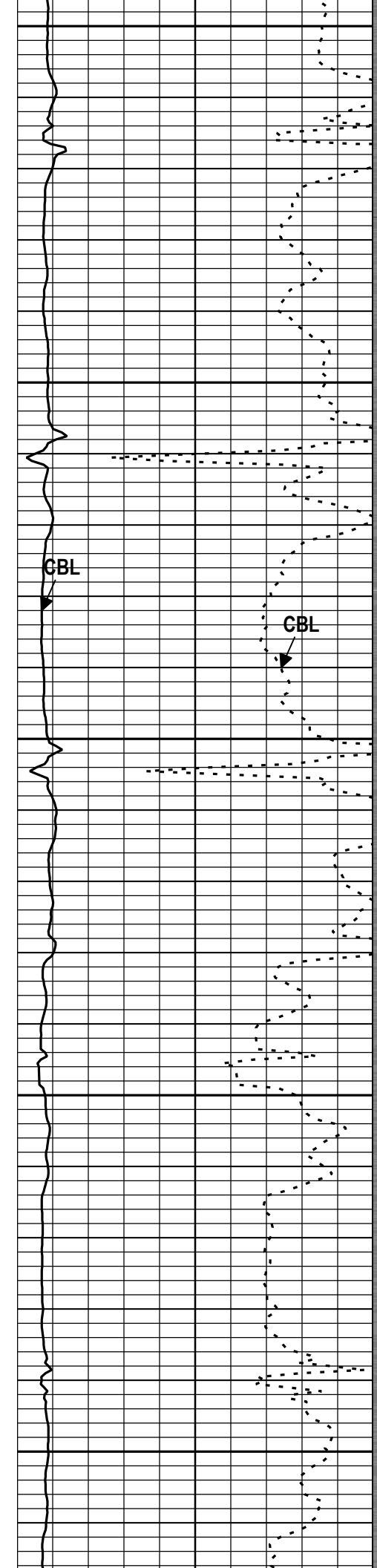
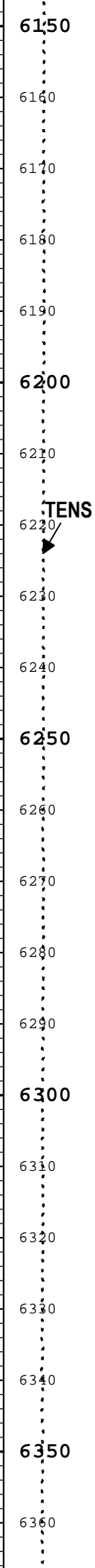
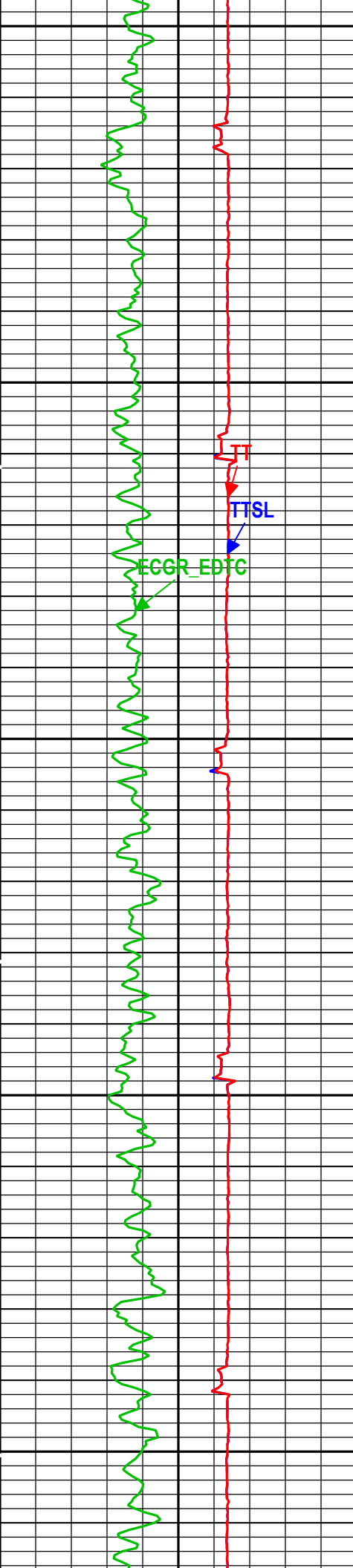


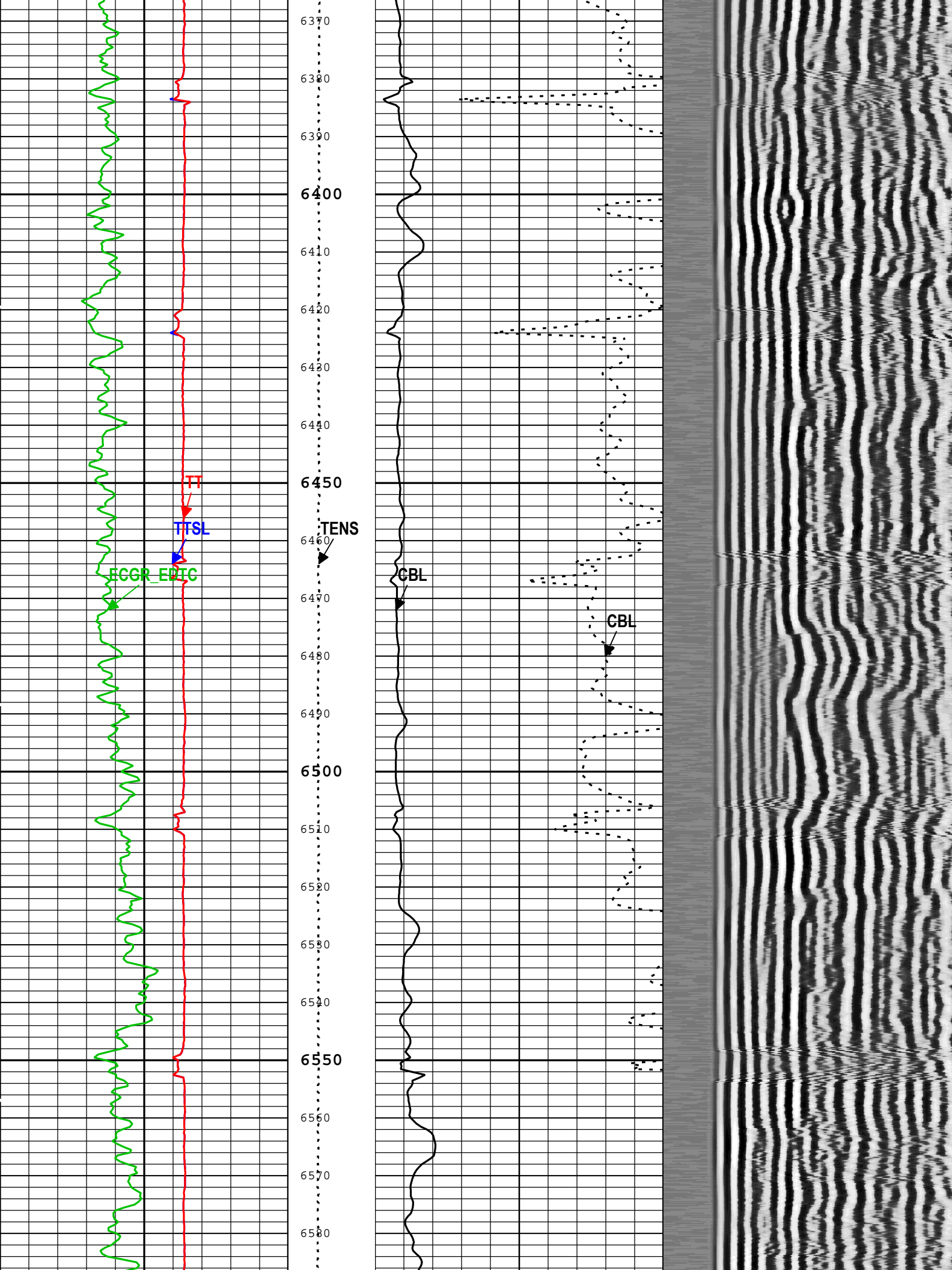




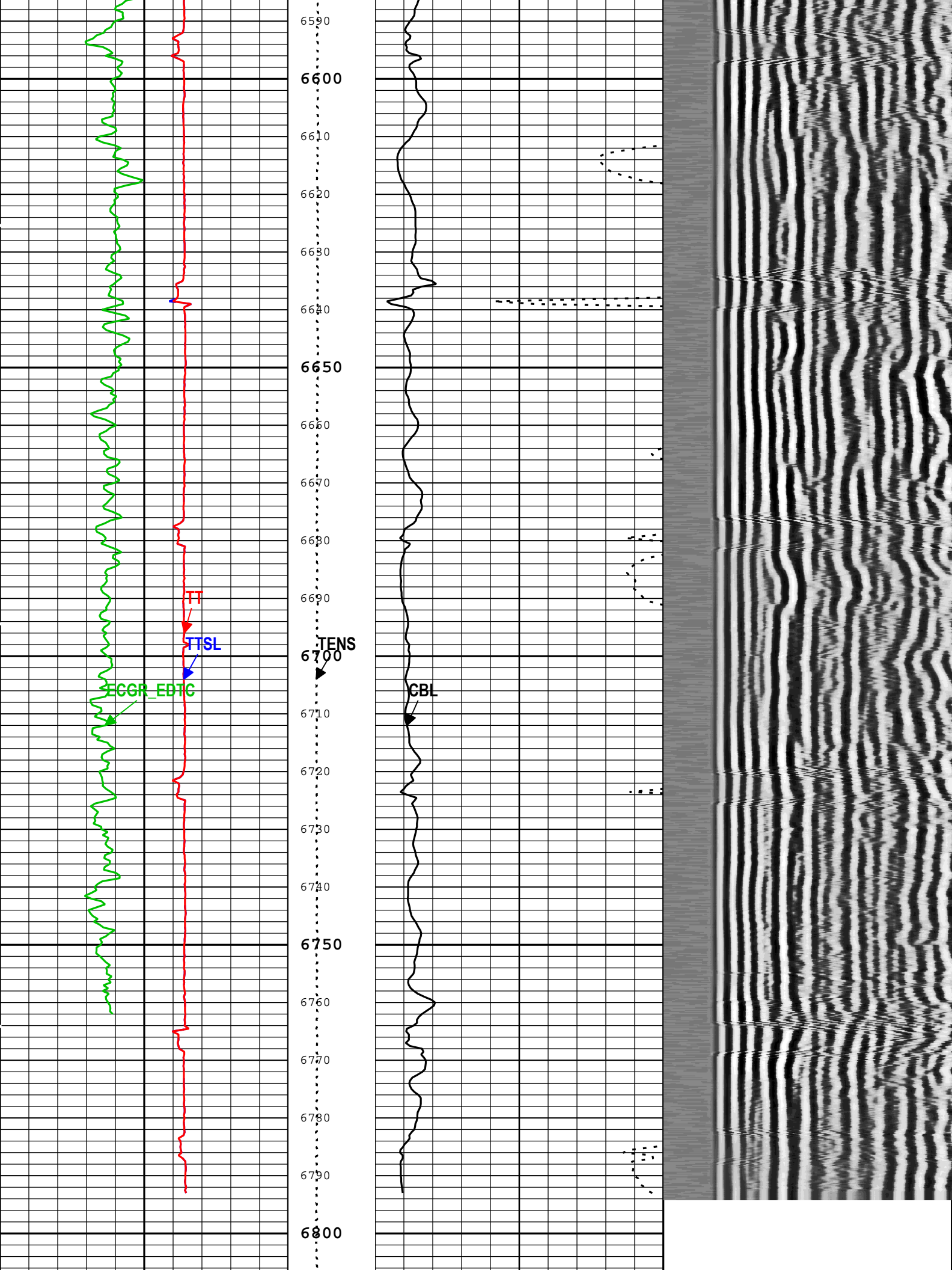
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59:40  
59:50  
59:60  
59:70  
59:80  
59:90  
60:00  
60:10  
60:20  
60:30  
60:40  
60:50  
60:60  
60:70  
60:80  
60:90  
61:00  
61:10  
61:20  
61:30  
61:40















| Parameter | Value | Start (ft) | Stop (ft) |
|-----------|-------|------------|-----------|
| BS        | 13.5  | 100        | 1895      |
| BS        | 7.875 | 1895       | 6822.17   |
| MCI       | 14.81 | 100        | 1885      |
| MCI       | 4.75  | 1885       | 6822.17   |

All depth are actual.

Tool Control Parameters

| ONE: Parameters |                                  |           |                  |      |
|-----------------|----------------------------------|-----------|------------------|------|
| Parameter       | Description                      | Tool      | Value            | Unit |
| MODE            | DSLT Acquisition Mode            | DSLT-H    | CBL              |      |
| RATE            | DSLT Firing Rate                 | DSLT-H    | 15 Hz            |      |
| DTFS            | DSLT Telemetry Frame Size        | DSLT-H    | 536              |      |
| MAX_LOG_SPEED   | Toolstring Maximum Logging Speed | WLSESSION | 3600             | ft/h |
| SGAI            | Selectable Acquisition Gain      | DSLT-H    | x1               |      |
| U-USIT_UFWB     | Far Receiver Window Begin Time   | USIT-E    | 138              | us   |
| U-USIT_UFWE     | Far Receiver Window End Time     | USIT-E    | 178              | us   |
| U-USIT_UNWB     | Near Receiver Window Begin Time  | USIT-E    | 107              | us   |
| U-USIT_UNWE     | Near Receiver Window End Time    | USIT-E    | 147              | us   |
| UPAT            | USIT Emission Pattern            | USIT-E    | Pattern 500 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           |      |

|                      |                                |              |
|----------------------|--------------------------------|--------------|
| Company:             | Anadarko Petroleum Corporation | Schlumberger |
| Well:                | Verde 13-7HZ                   |              |
| Field:               | Wildcat                        |              |
| County:              | Weld                           |              |
| State:               | Colorado                       |              |
| Cement Bond Log      |                                |              |
| Variable Density Log |                                |              |