

Company: Noble Energy, Inc.

Well: Wells Ranch State AA33-790

Field: Wattenberg

County: Weld State: Colorado

Cased Hole Neutron Porosity

Gamma Ray

|              |                            |  |               |           |                  |
|--------------|----------------------------|--|---------------|-----------|------------------|
| County:      | Weld                       |  |               |           |                  |
| Field:       | Wattenberg                 |  |               |           |                  |
| Location:    | SWSW Sec 21 T6N R63W       |  |               |           |                  |
| Well:        | Wells Ranch State AA33-790 |  |               |           |                  |
| Company:     | Noble Energy, Inc.         |  |               |           |                  |
|              |                            | Location:                                |               |           |                  |
|              |                            | SWSW Sec 21 T6N R63W                     | Elev.:        | K.B.      | 4738.00 ft       |
|              |                            | SHL: 255 FSL 847 FWL                     |               | G.L.      | 4708.00 ft       |
|              |                            | Latitude: 40.46553 Longitude: -104.44816 |               | D.F.      | 4737.00 ft       |
|              |                            | Permanent Datum:                         | Ground Level  | Elev.:    | 4708.00 f        |
|              |                            | Log Measured From:                       | Kelly Bushing | 30.00 ft  | above Perm.Datum |
|              |                            | Drilling Measured From:                  | Kelly Bushing |           |                  |
|              |                            | API Serial No.                           | Section:      | Township: | Range:           |
|              |                            | 05-123-43876                             | 21            | 6N        | 63W              |
| Logging Date | 09-Apr-2017                |  |               |           |                  |

|                           |                |             |
|---------------------------|----------------|-------------|
| Run Number                | One            |             |
| Depth Driller             | 16763.00 ft    |             |
| Schlumberger Depth        | 16763.00 ft    |             |
| Bottom Log Interval       | 6500.00 ft     |             |
| Top Log Interval          | 0.00 ft        |             |
| Casing Fluid Type         | Brine          |             |
| Salinity                  |                |             |
| Density                   | 9.3 lbm/gal    |             |
| Fluid Level               | 8.00 ft        |             |
| BIT/CASING/TUBING STRING  |                |             |
| Bit Size                  | 8.50 in        |             |
| From                      | 1930.00 ft     |             |
| To                        | 16763.00 ft    |             |
| Casing/Tubing Size        | 5.5 in         |             |
| Weight                    | 20 lbm/ft      |             |
| Grade                     | N/A            |             |
| From                      | 0.00 ft        |             |
| To                        | 16753.90 ft    |             |
| Max Recorded Temperatures | 218 degF       |             |
| Logger on Bottom          | 09-Apr-2017    | 16:16:00    |
| Unit Number               | 9115           | Fort Morgan |
| Recorded By               | Stephen Tang   |             |
| Witnessed By              | Bill Mansfield |             |

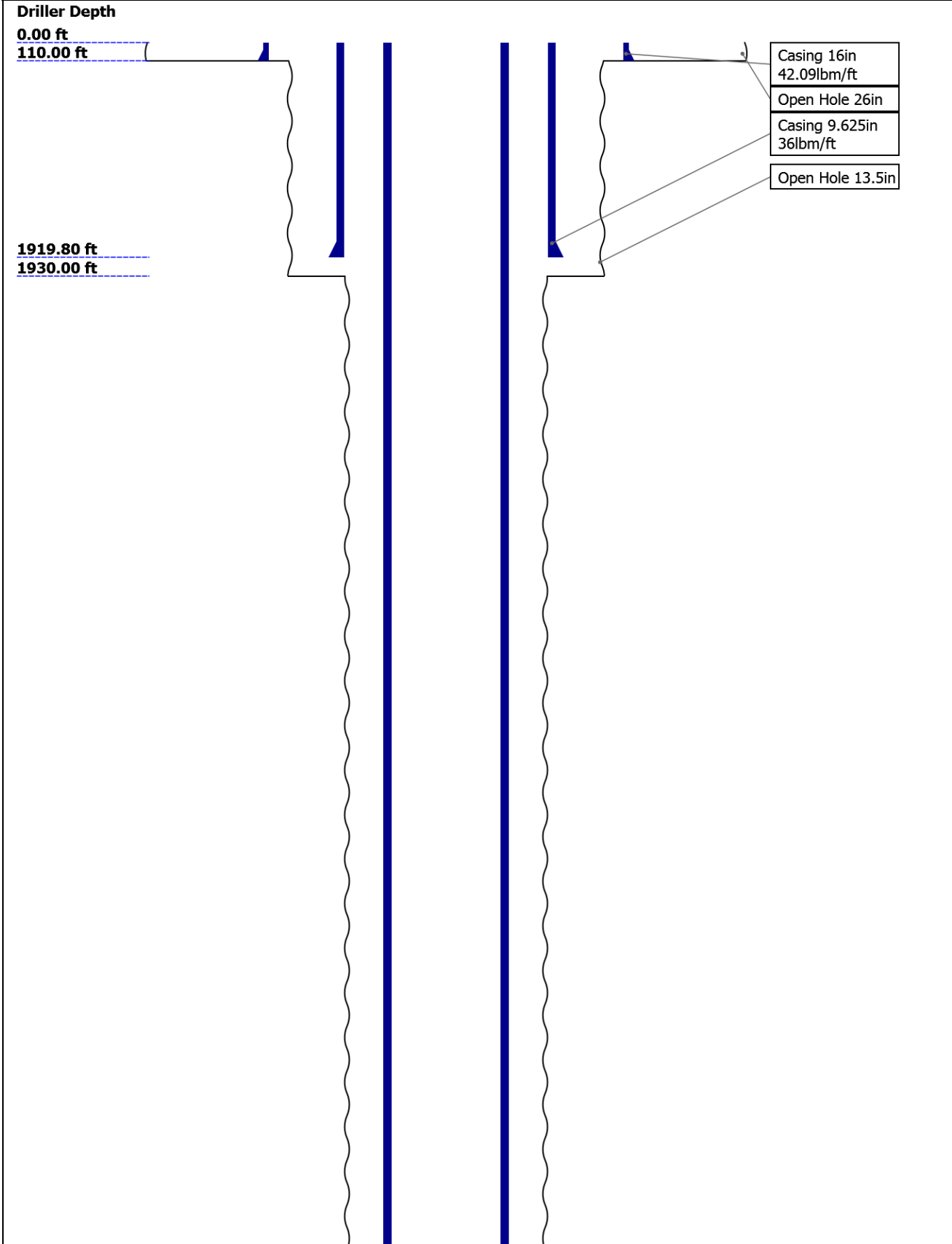
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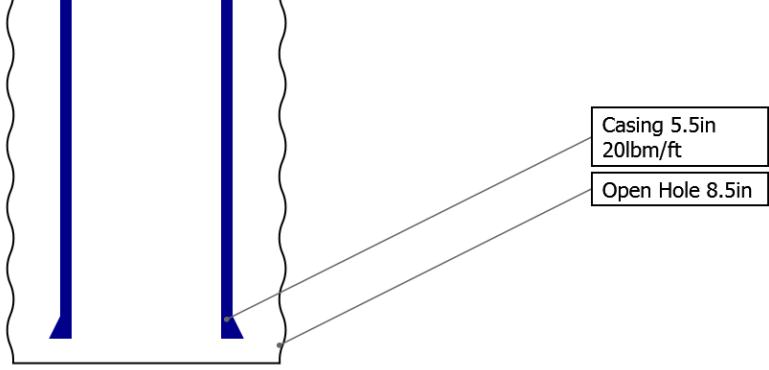
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Well Sketch



16753.90 ft

16763.00 ft

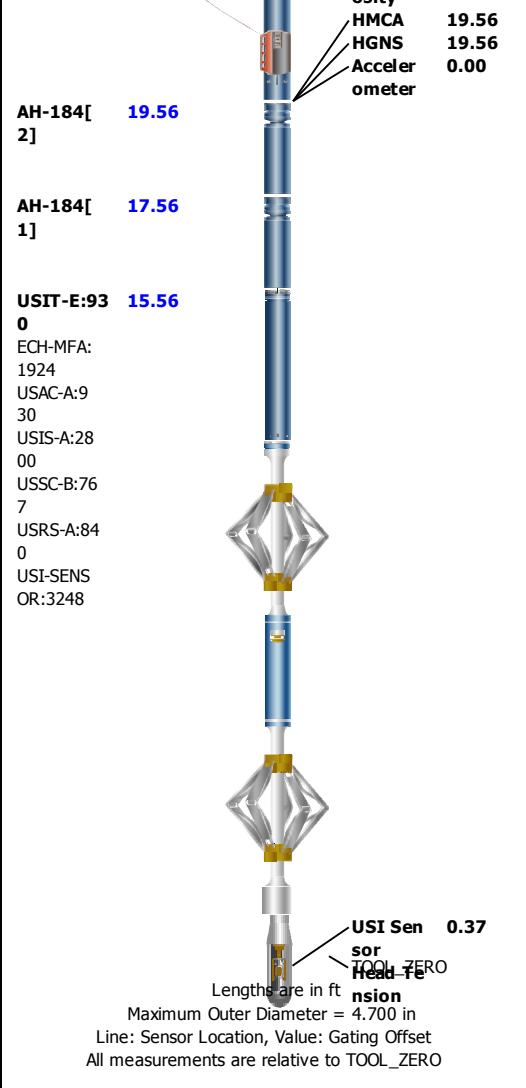


## Borehole Size/Casing/Tubing Record

|                       |        |        |         |  |  |  |
|-----------------------|--------|--------|---------|--|--|--|
| Bit                   |        |        |         |  |  |  |
| Bit Size ( in )       | 26     | 13.5   | 8.5     |  |  |  |
| Top Driller ( ft )    | 0      | 110    | 1930    |  |  |  |
| Top Logger ( ft )     | 0      | 110    | 1930    |  |  |  |
| Bottom Driller ( ft ) | 110    | 1930   | 16763   |  |  |  |
| Bottom Logger ( ft )  | 110    | 1930   | 16763   |  |  |  |
| Casing                |        |        |         |  |  |  |
| Size ( in )           | 16     | 9.625  | 5.5     |  |  |  |
| Weight ( lbm/ft )     | 42.09  | 36     | 20      |  |  |  |
| Inner Diameter ( in ) | 15.511 | 8.921  | 4.778   |  |  |  |
| Grade                 | N/A    | N/A    | N/A     |  |  |  |
| Top Driller ( ft )    | 0      | 0      | 0       |  |  |  |
| Top Logger ( ft )     | 0      | 0      | 0       |  |  |  |
| Bottom Driller ( ft ) | 110    | 1919.8 | 16753.9 |  |  |  |
| Bottom Logger ( ft )  | 110    | 1919.8 | 16753.9 |  |  |  |

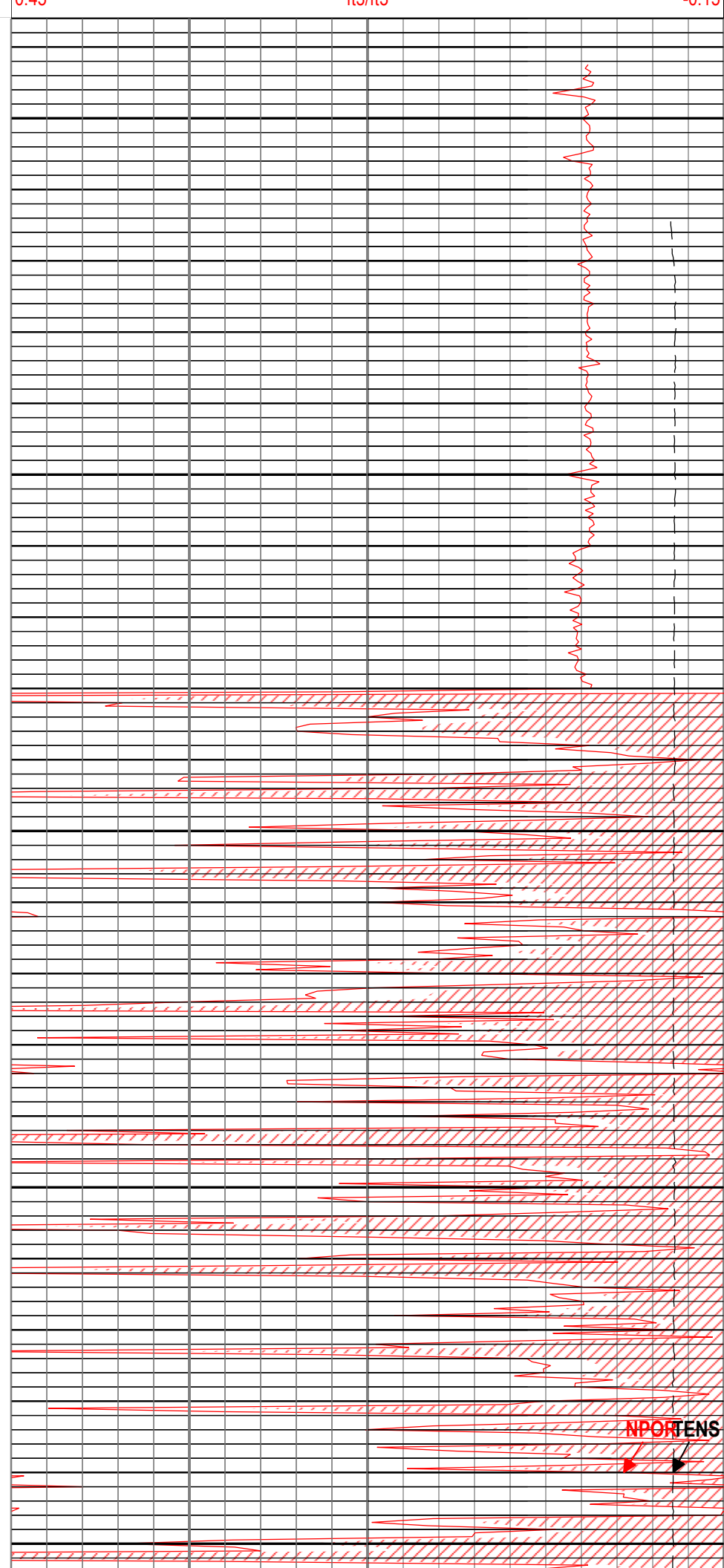
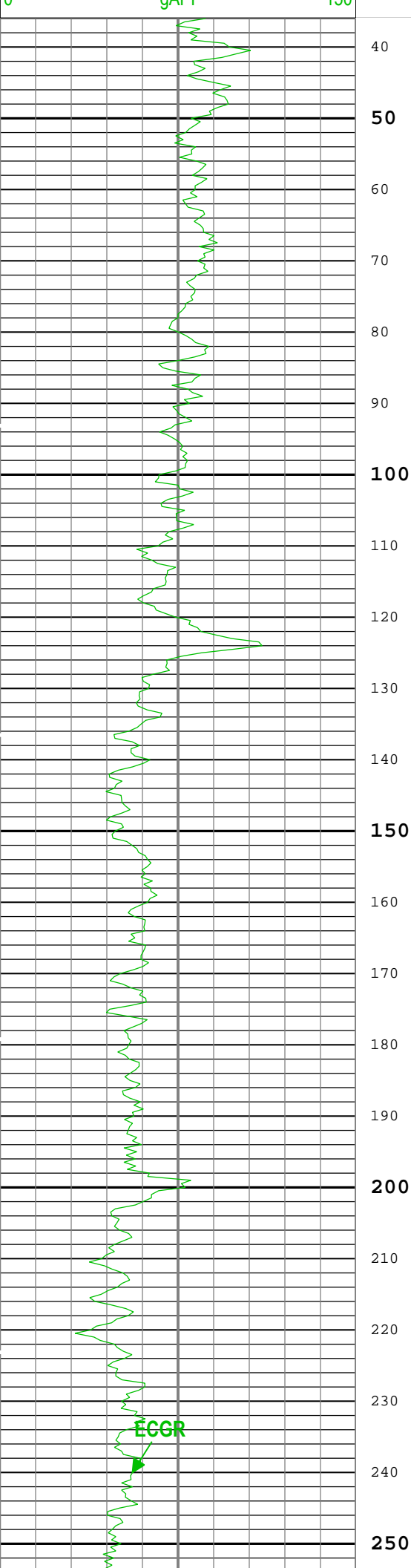
## Remarks and Equipment Summary

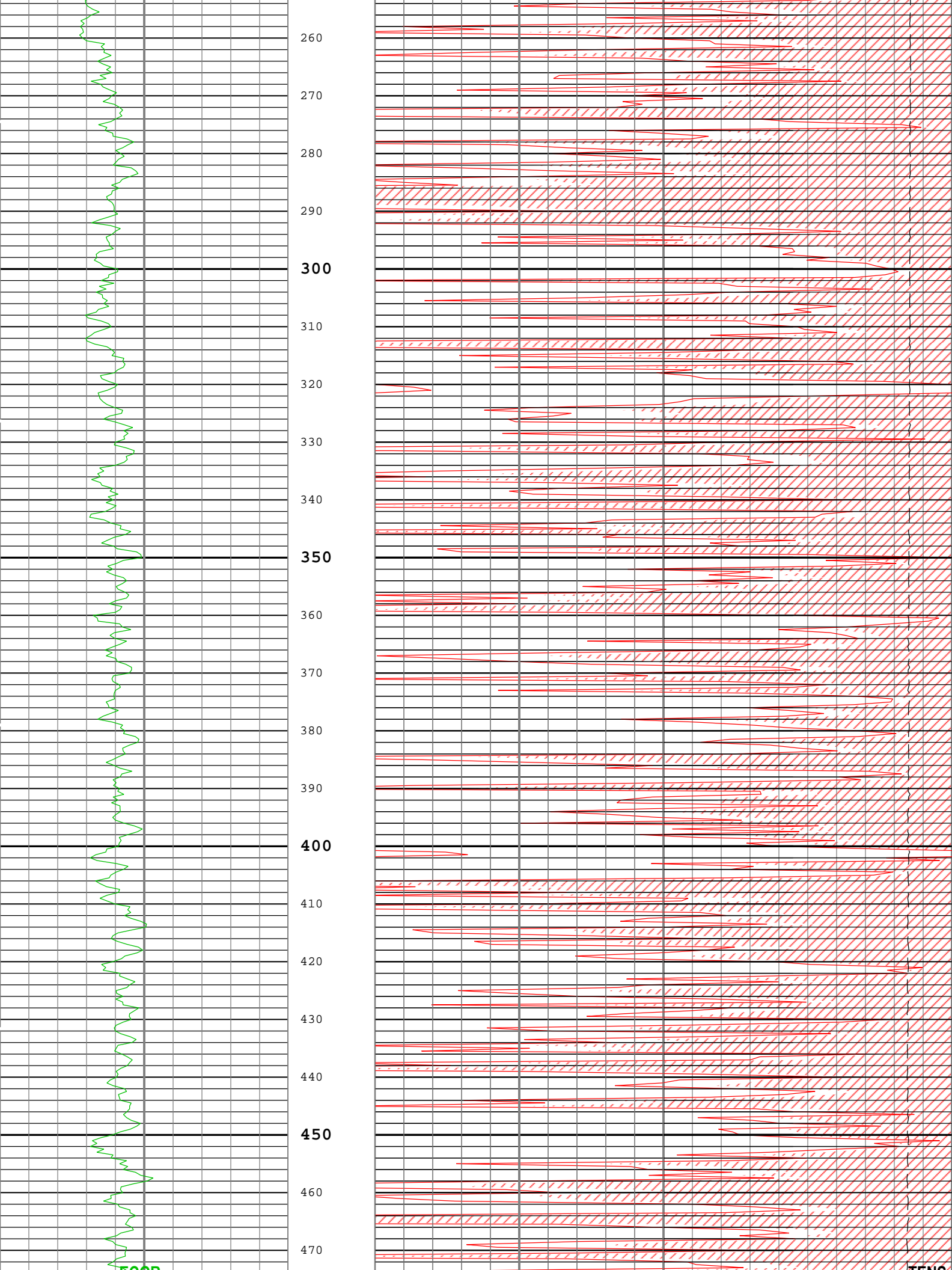
| One: Toolstring  |                                      |  |  | One: Remarks |  |
|--|--------------------------------------|--|--|--------------|--|
| <div><div><div>Equip nameLengthMP nameOffset</div><div>LEH-QT38.38LEH-QT</div><div>EDTC-B35.47EDTH-BEDTG-AEDTC-B</div><div>HGNS-H28.97HGNHNSR-F:5068NPV-NHGNS-HHACCZ-H:5736HMCA-H</div></div><div><div>CTEM31.97ACCZ0.00HV0.00Gamma30.1RayTelStatu s28.97Temper ature28.94GR28.23</div><div>CNL Por osity21.89</div></div></div> | Toolstring ran as per tool sketch.   |  |  |              |  |
|  | Well logged at 10 degree 6 inch.     |  |  |              |  |
|  | Main pass logged with 2500 psi.      |  |  |              |  |
|  | Repeat pass logged with 0 psi.       |  |  |              |  |
|  | Thank you for choosing Schlumberger! |  |  |              |  |
|  |                                      |  |  |              |  |

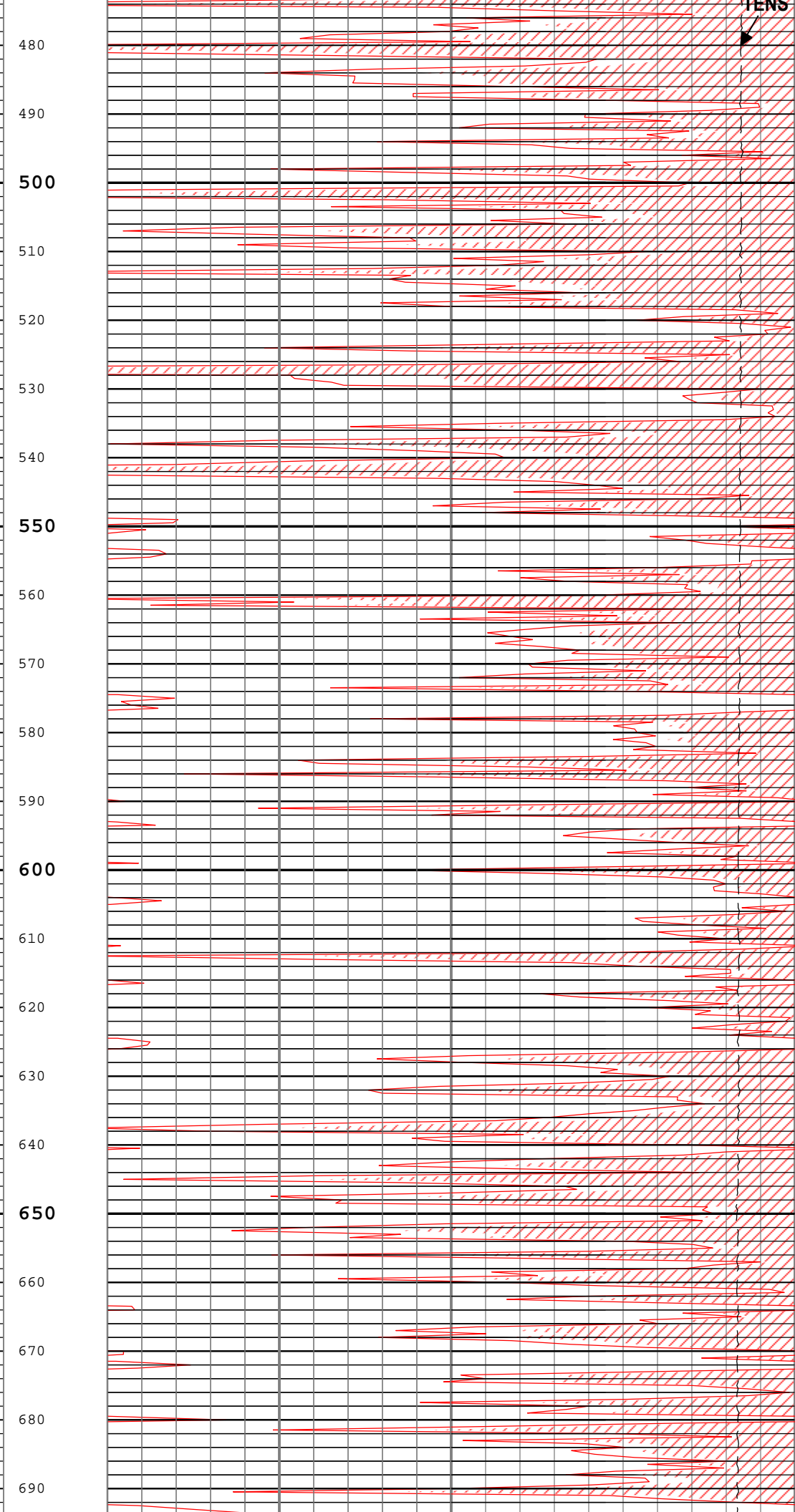
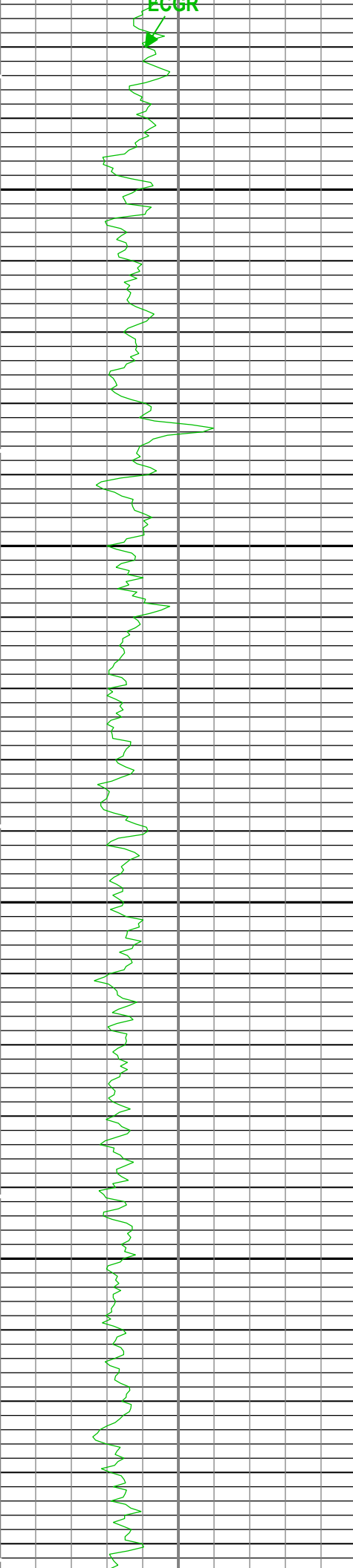


| Depth Summary                |             |  |  |
|------------------------------|-------------|--|--|
|                              | One         |  |  |
| Depth Measuring Device       |             |  |  |
| Type                         | IDW-B       |  |  |
| Serial Number                |             |  |  |
| 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                         | 7-46NT-XS   |  |  |
| Serial Number                |             |  |  |
| Length                       | 24000.00 ft |  |  |
| Conveyance Type              | Wireline    |  |  |

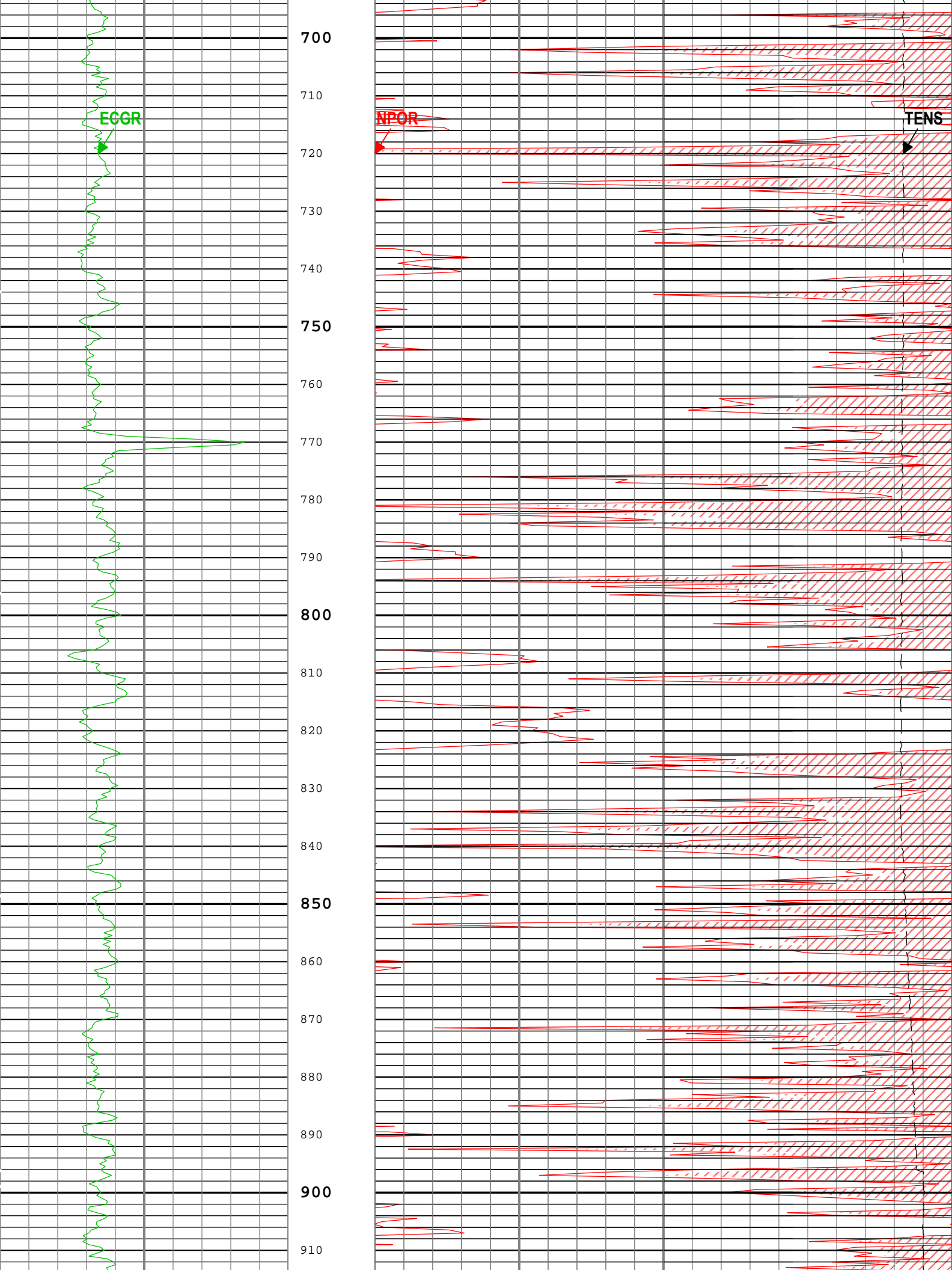


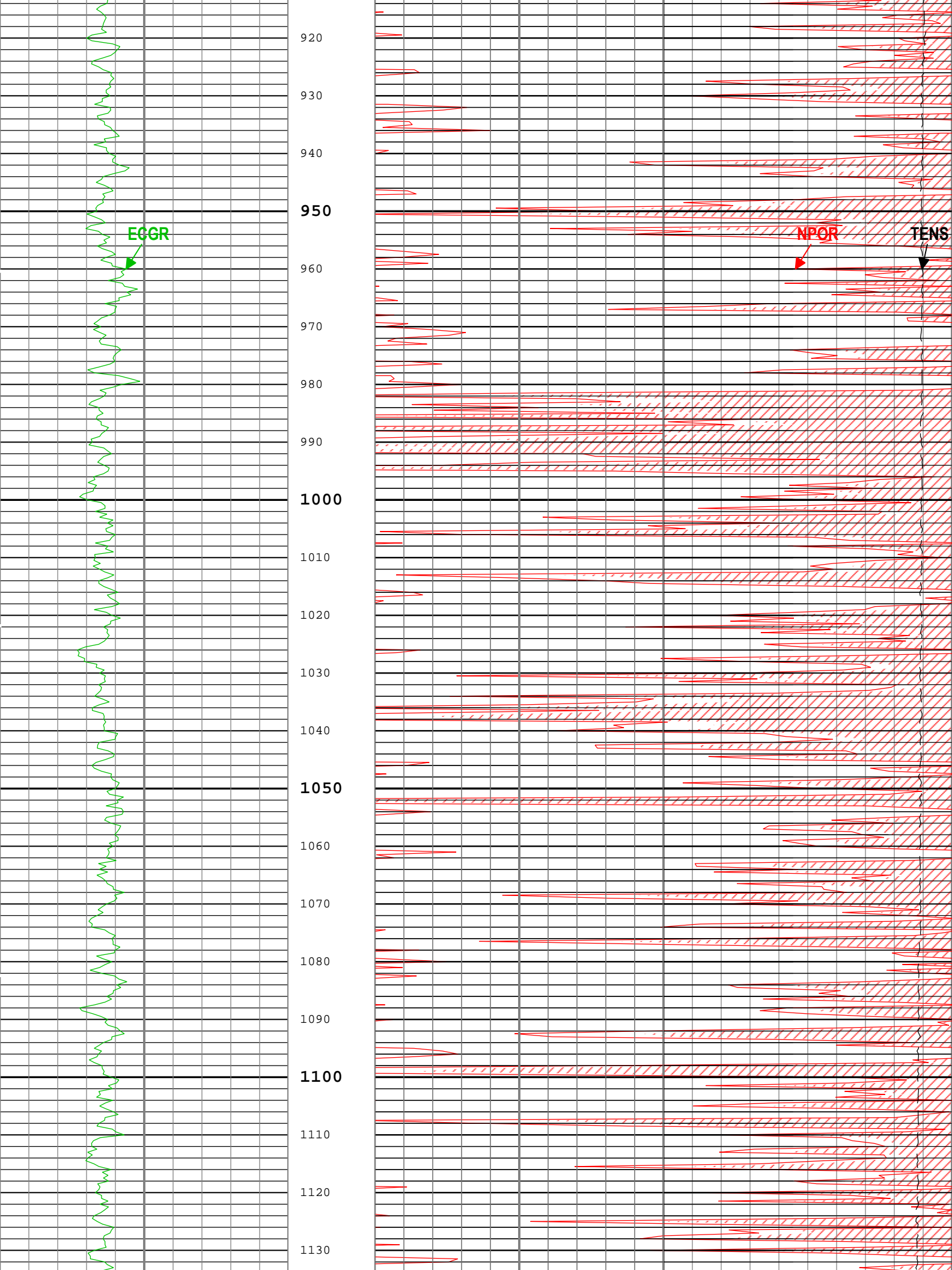


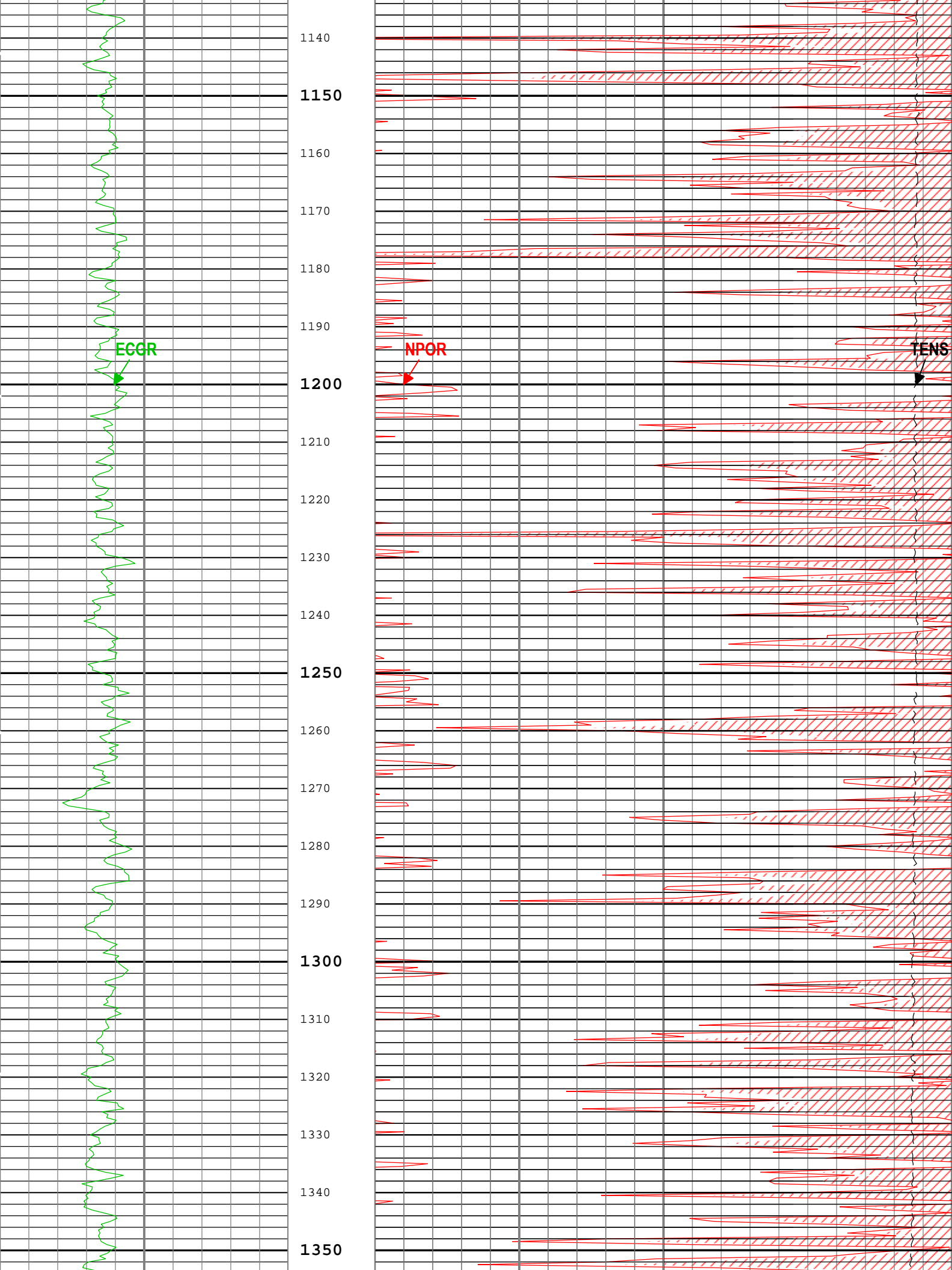


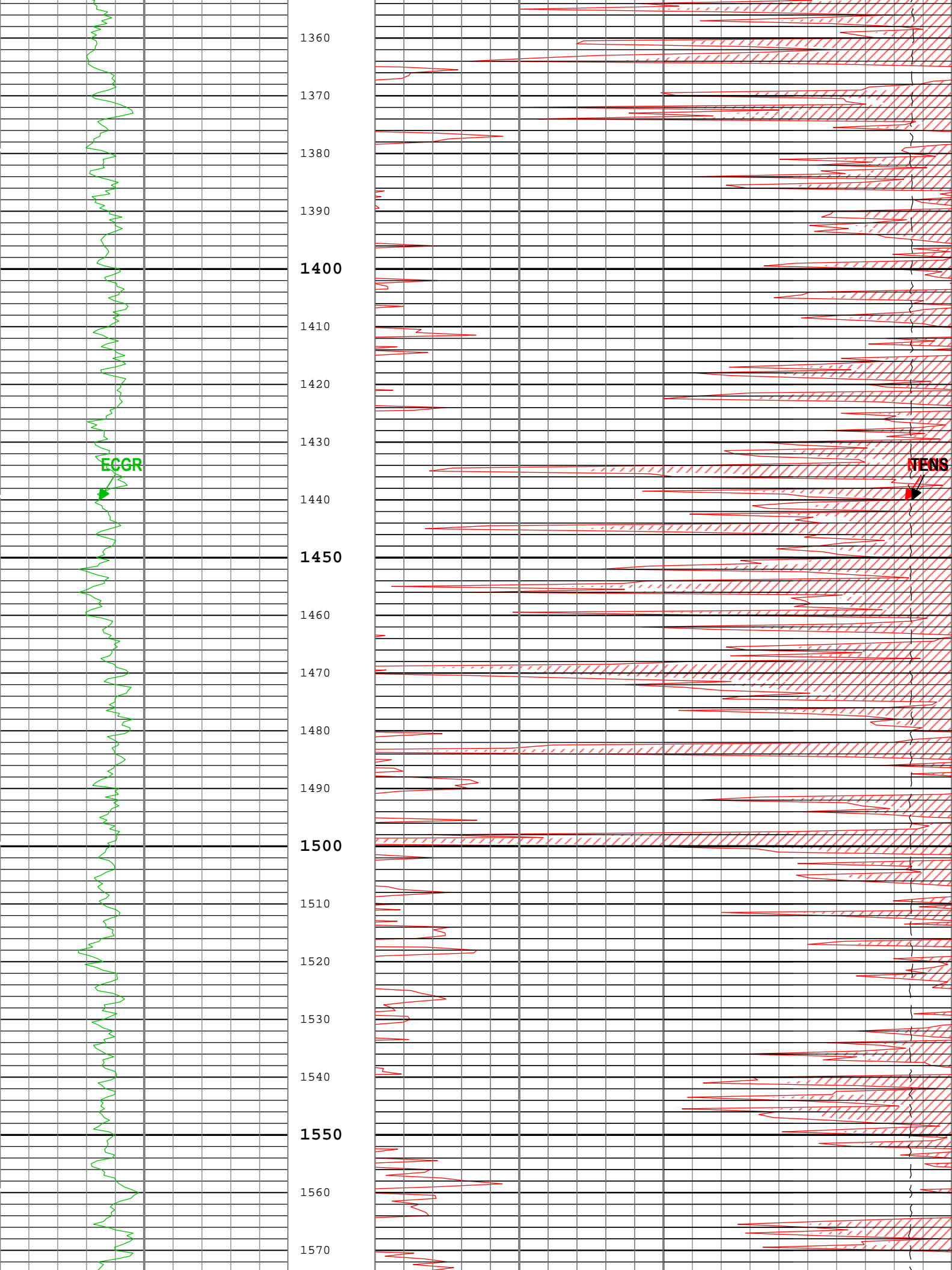


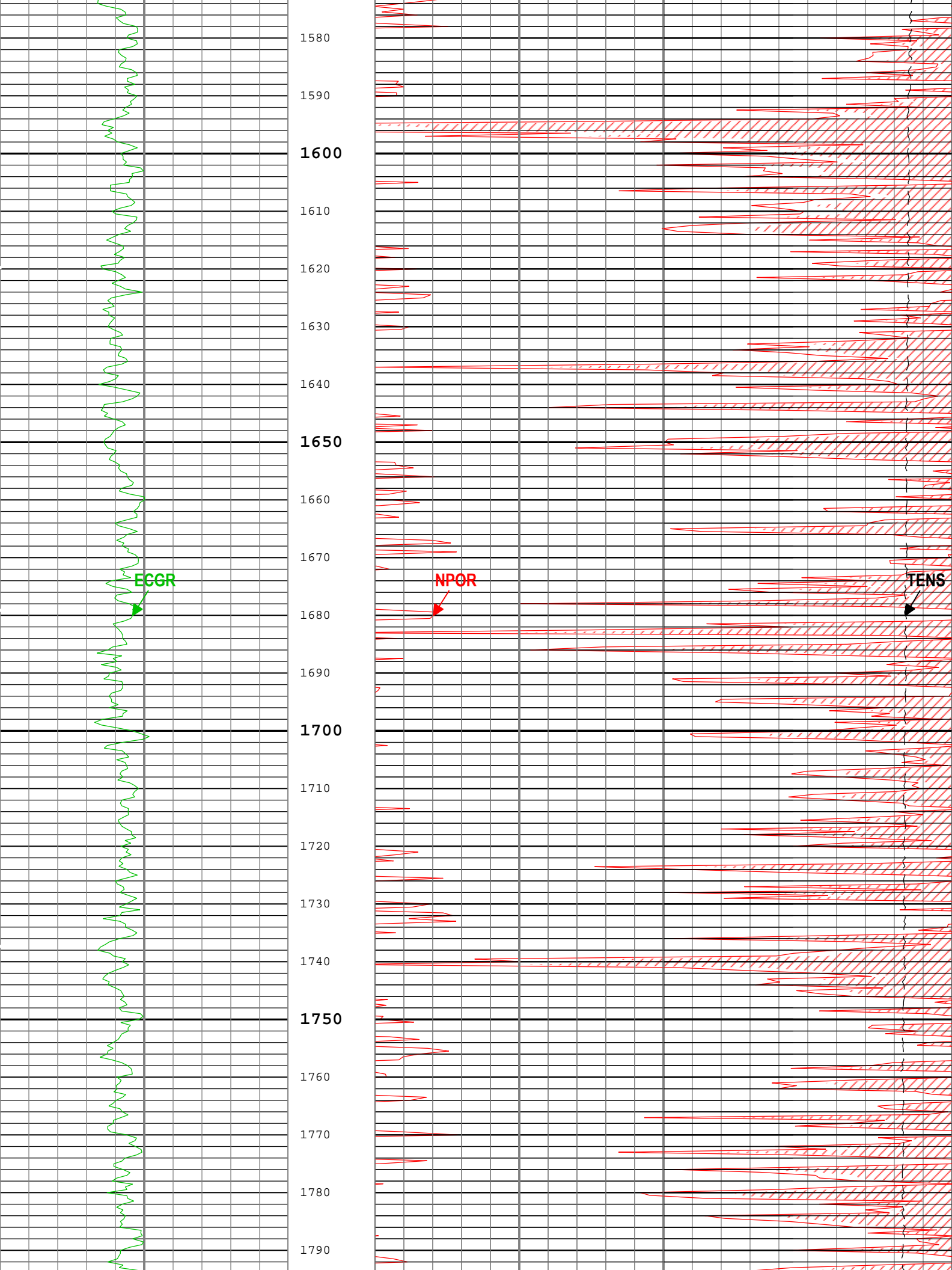


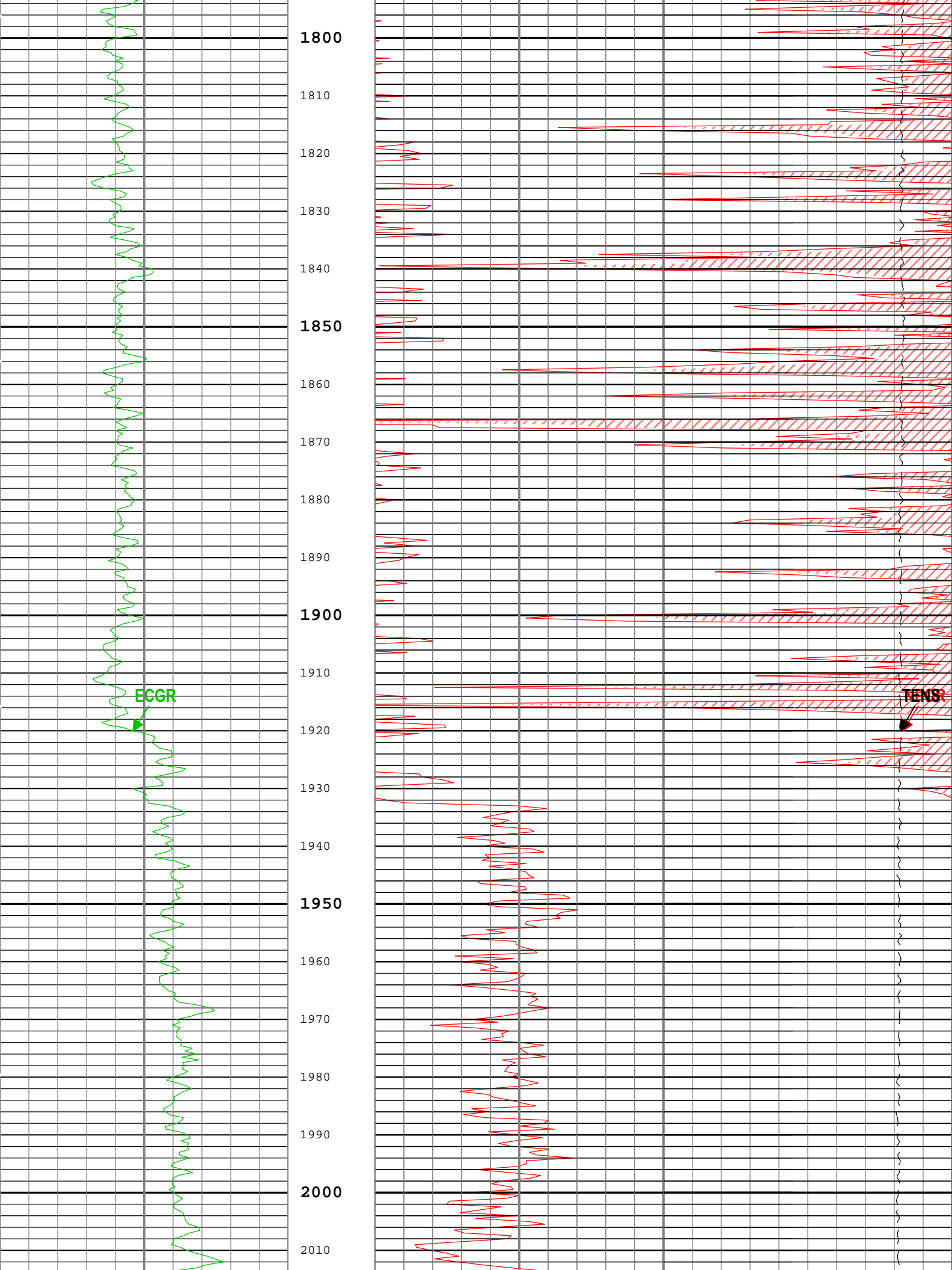


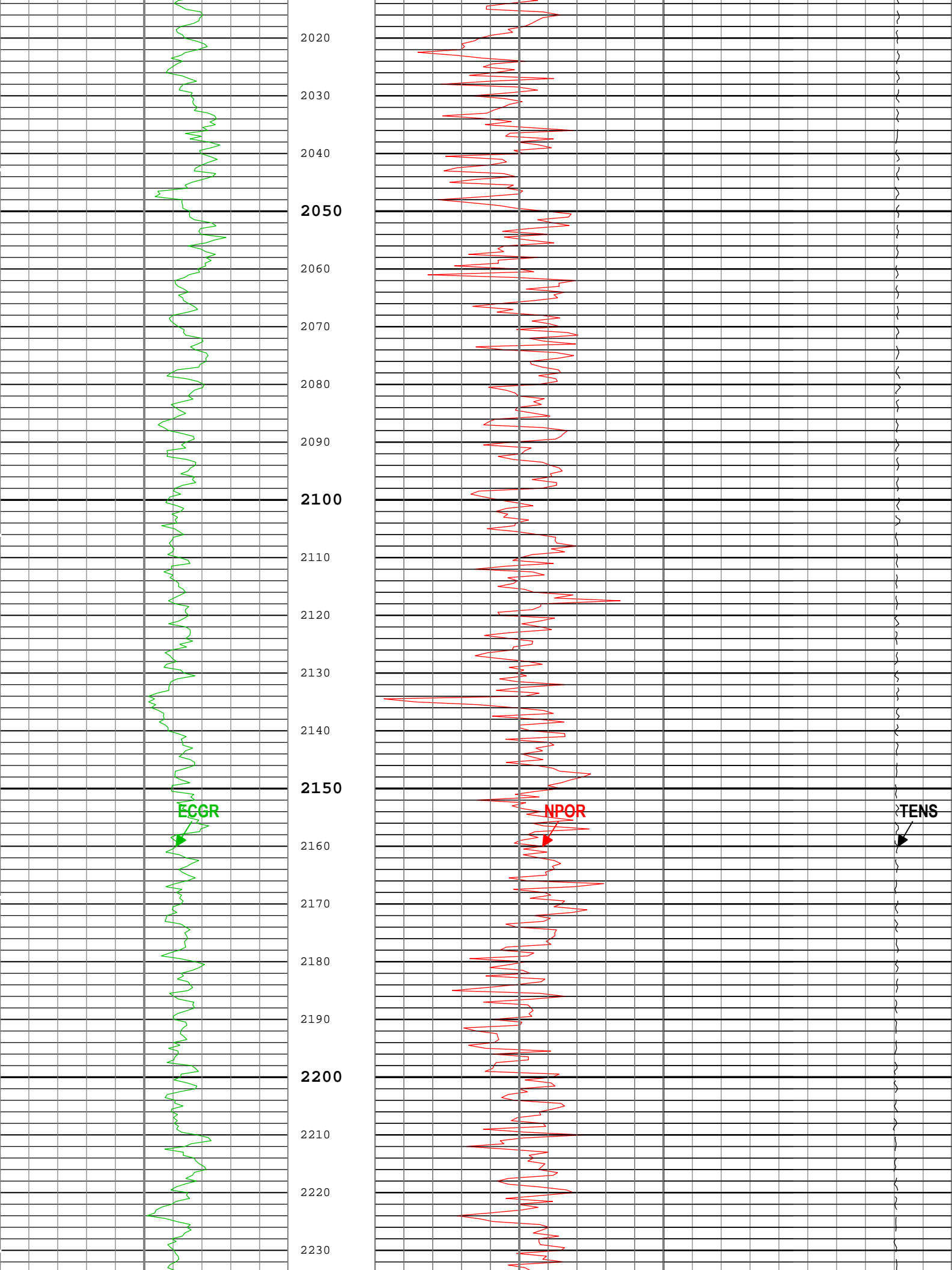


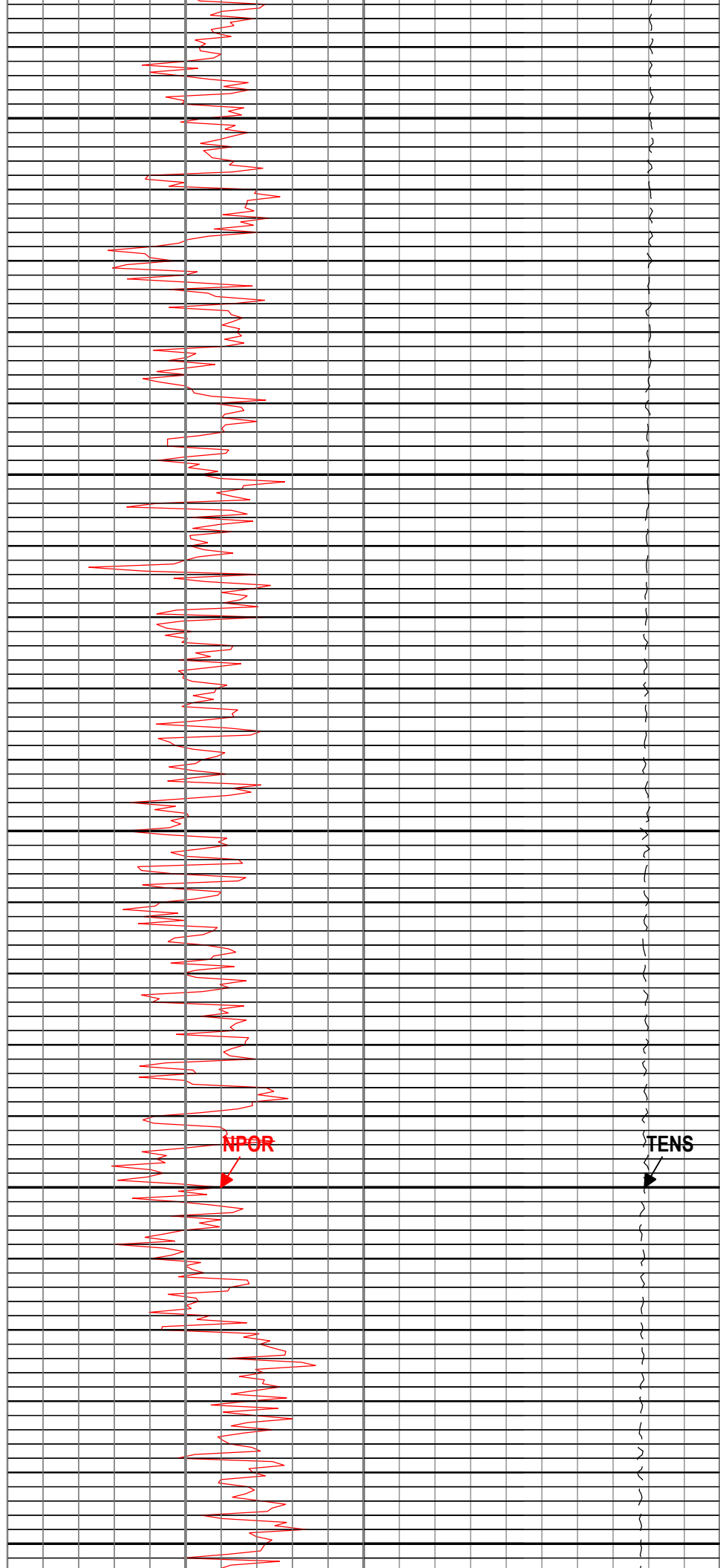
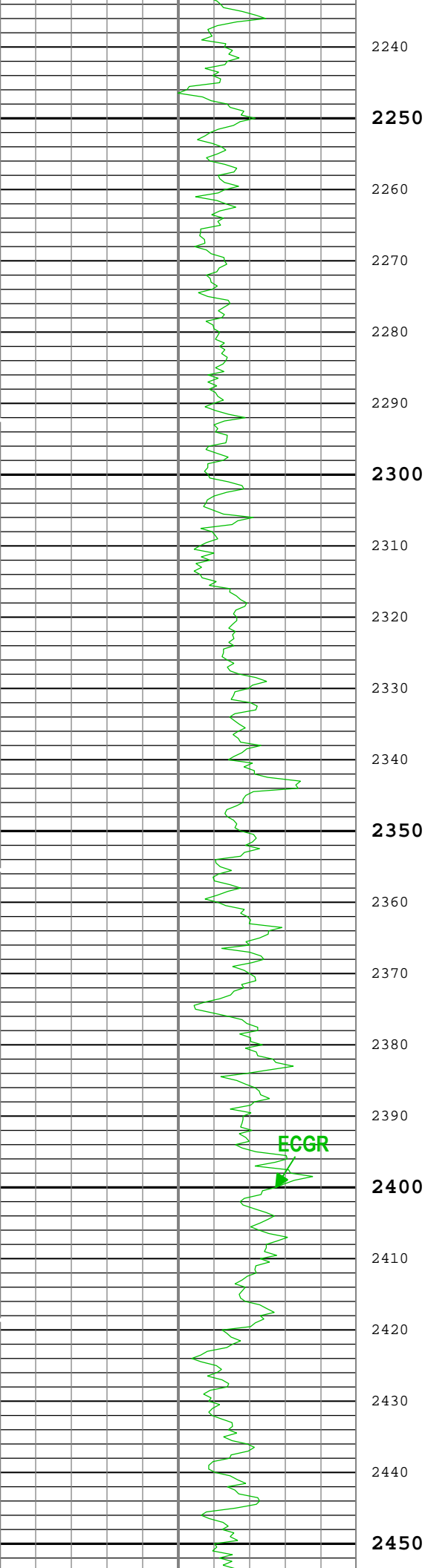




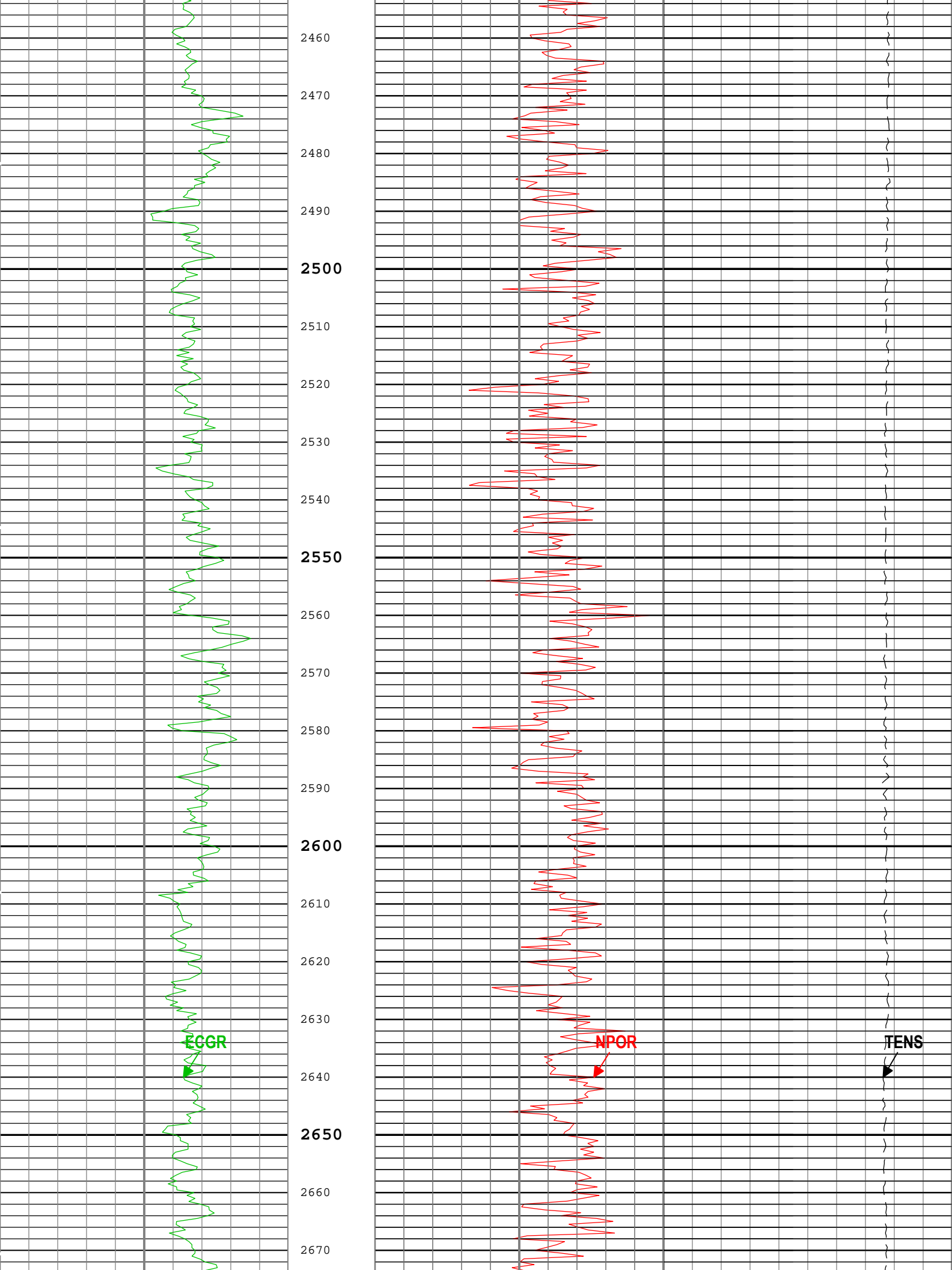


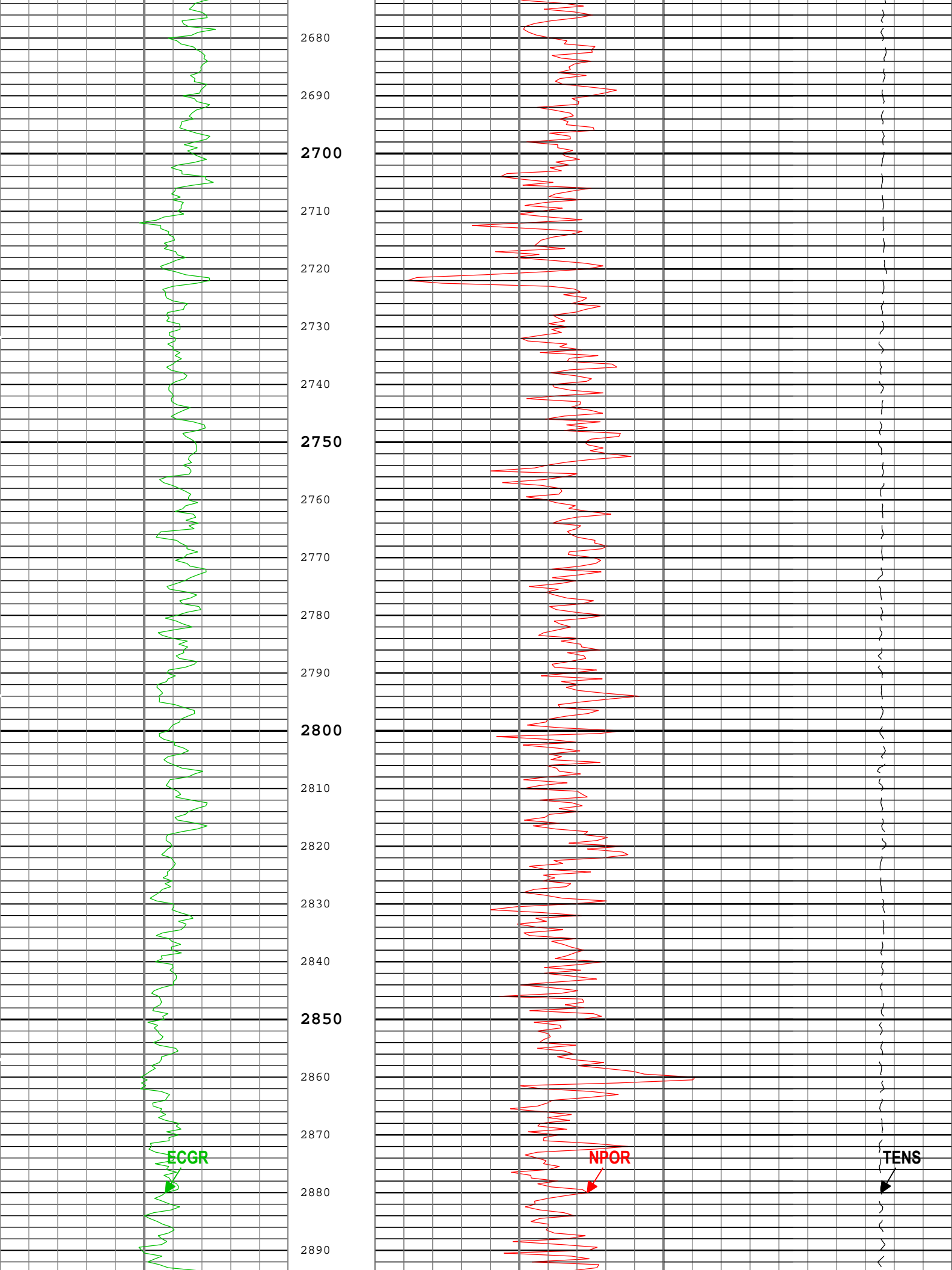


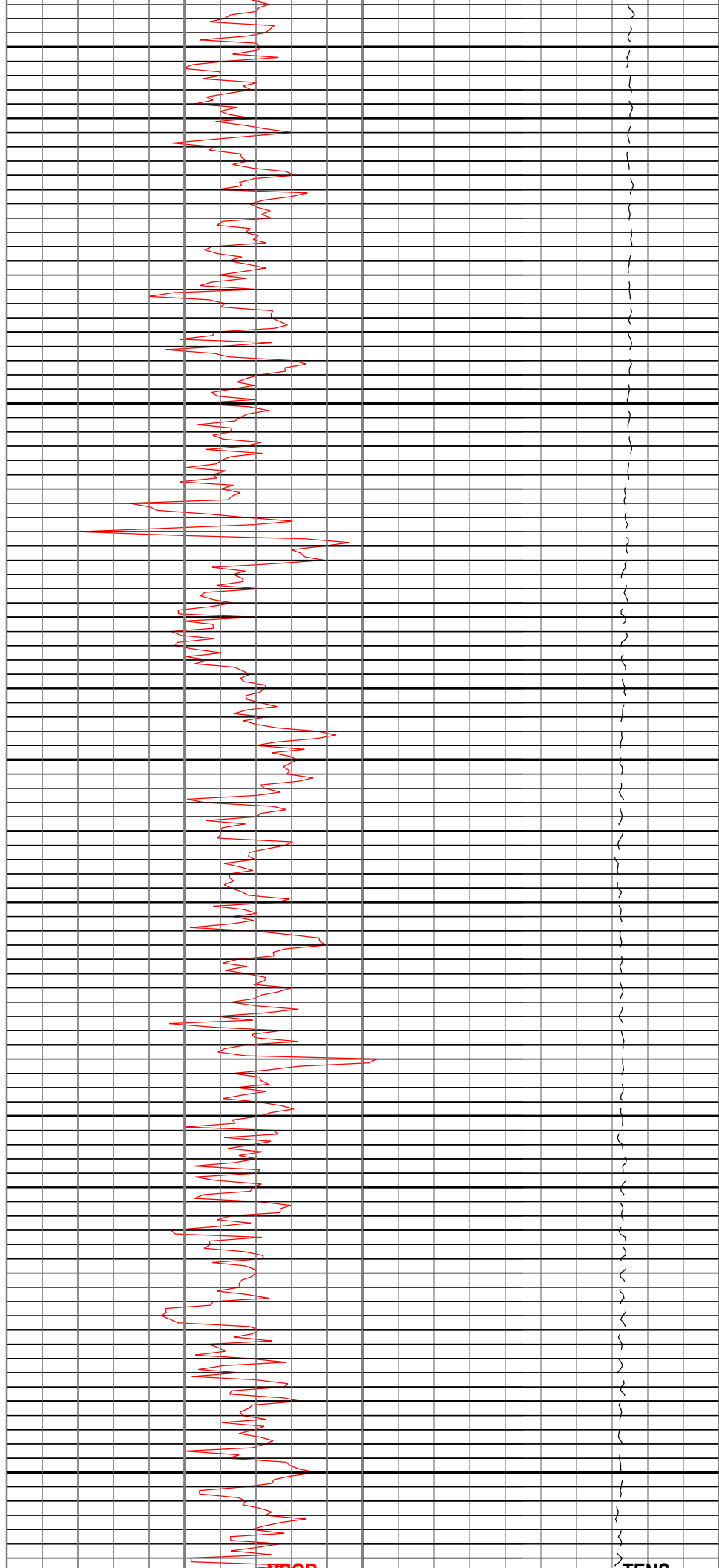
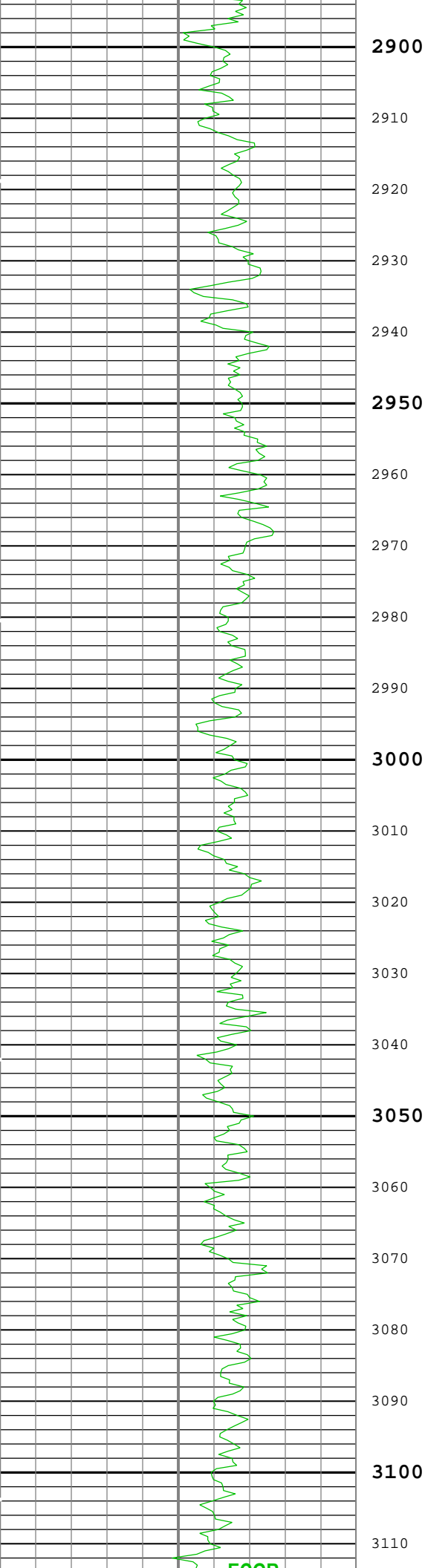


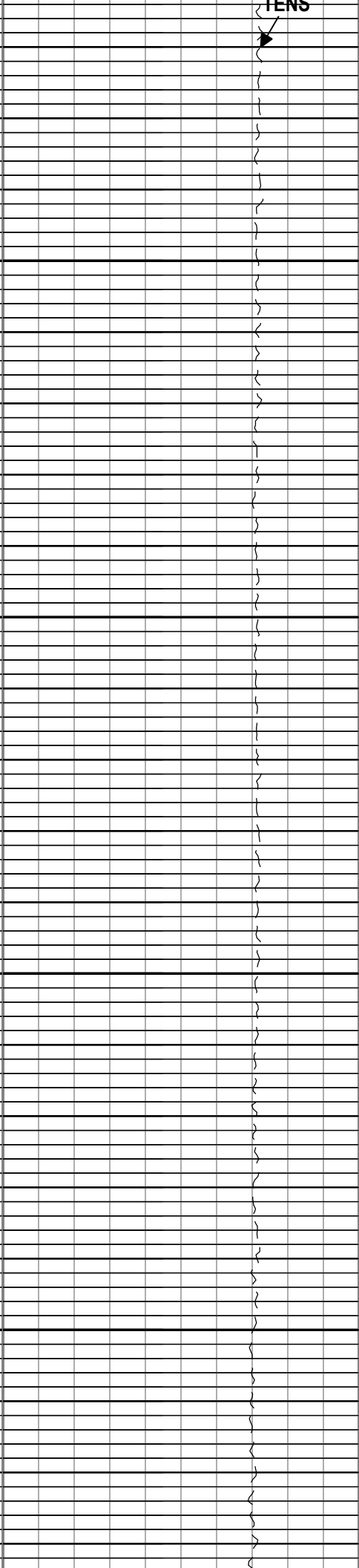
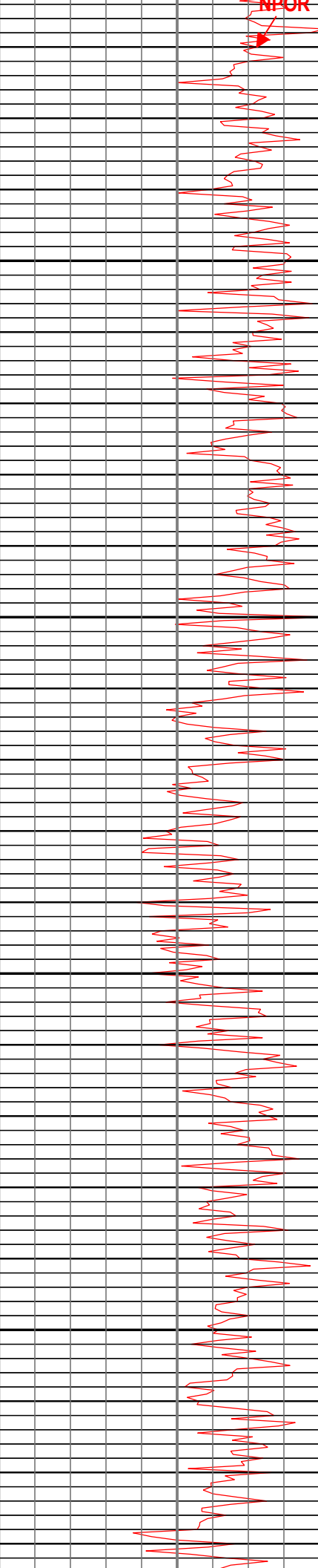
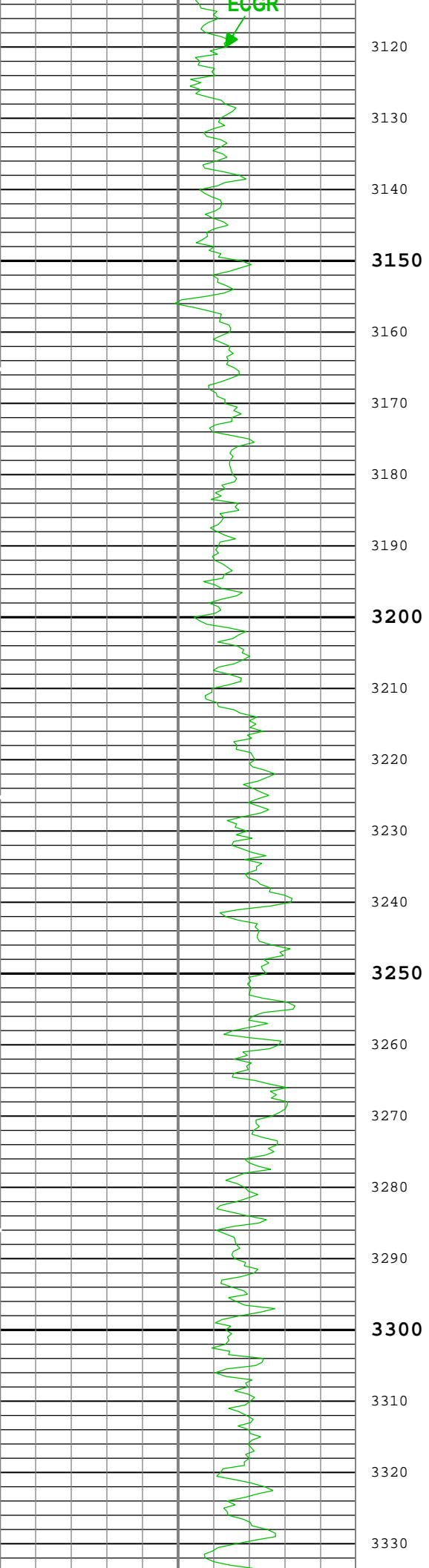


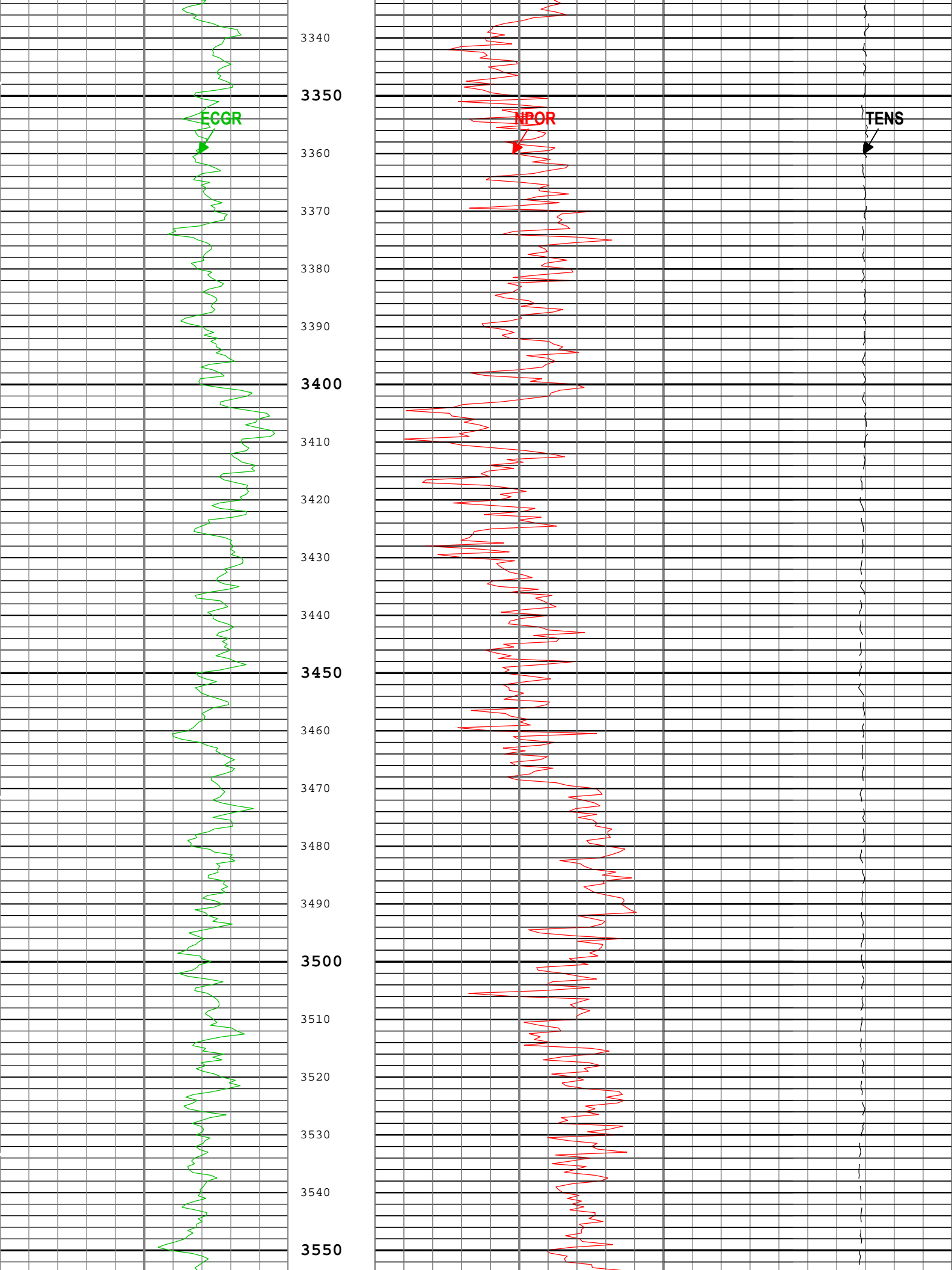


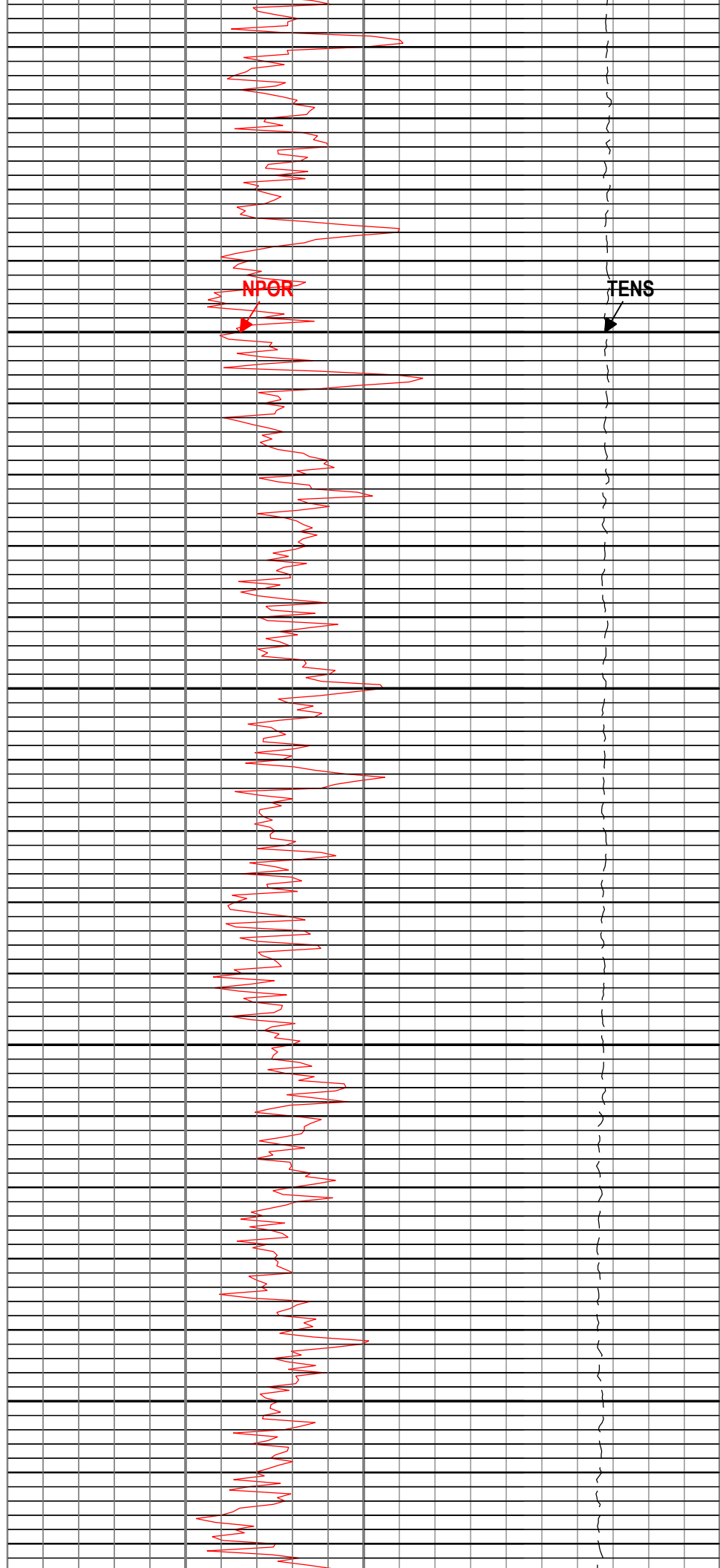
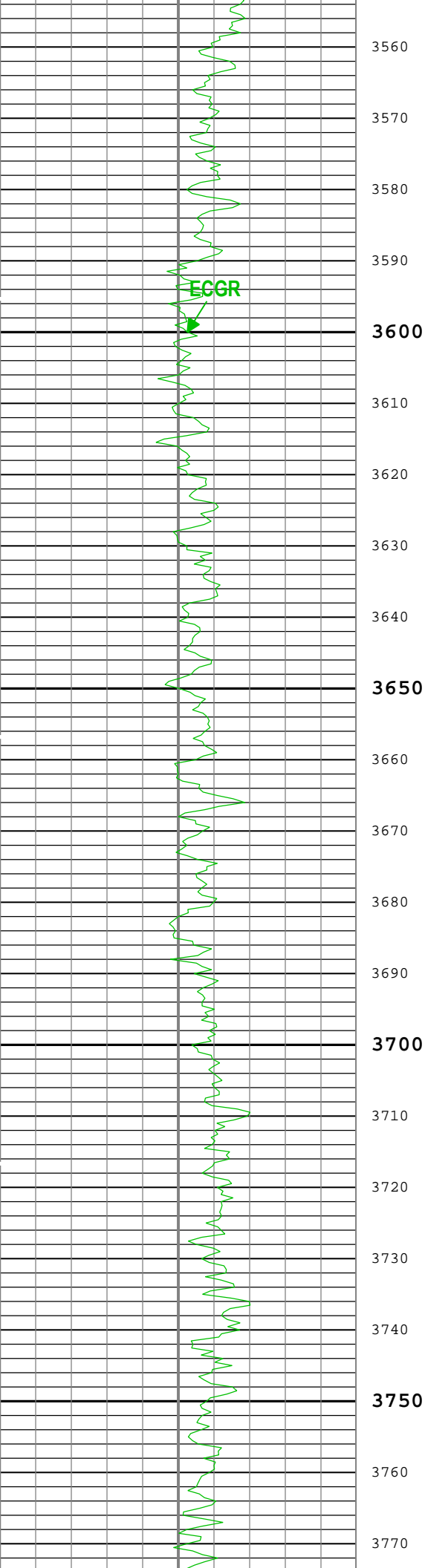


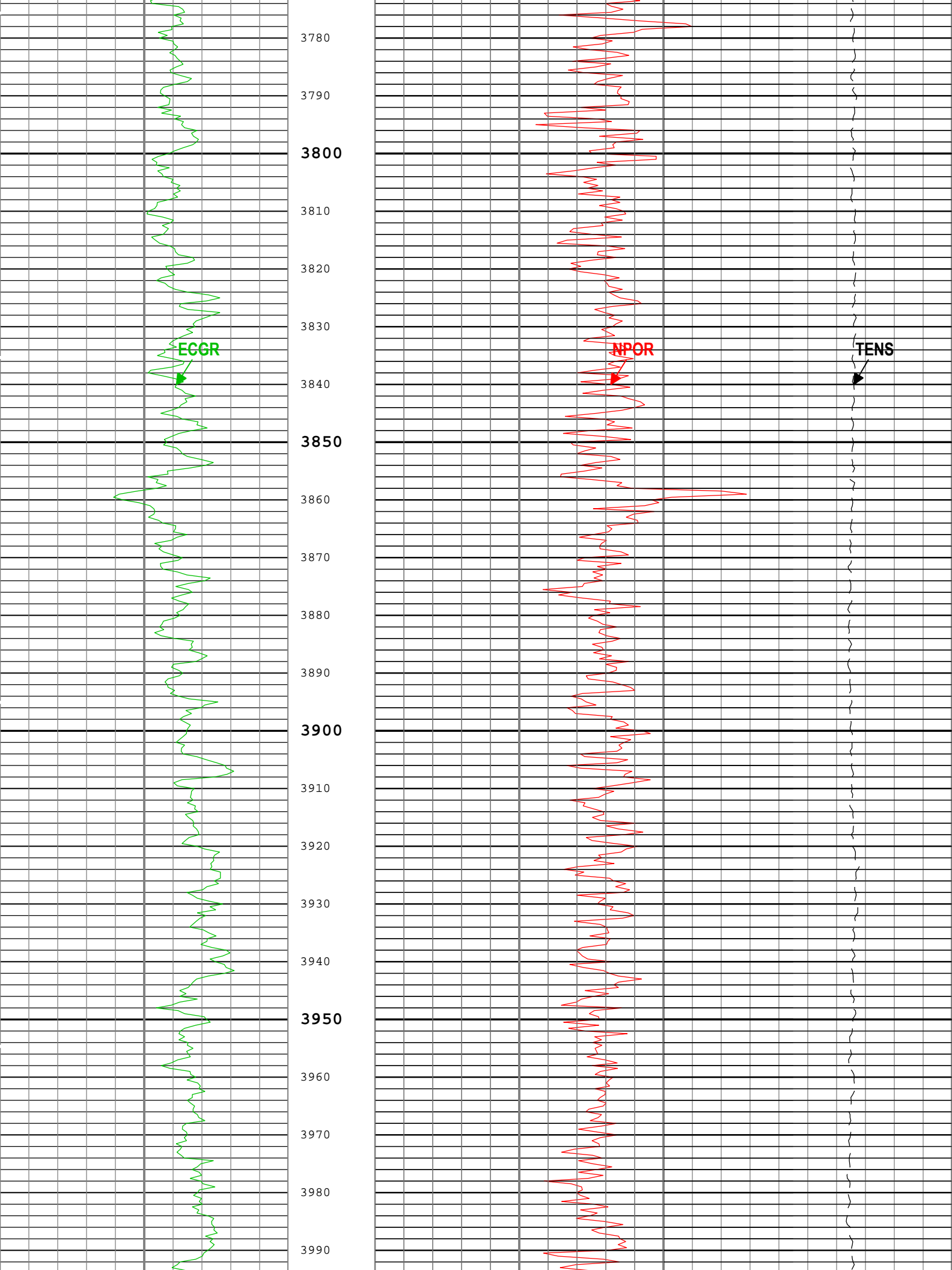


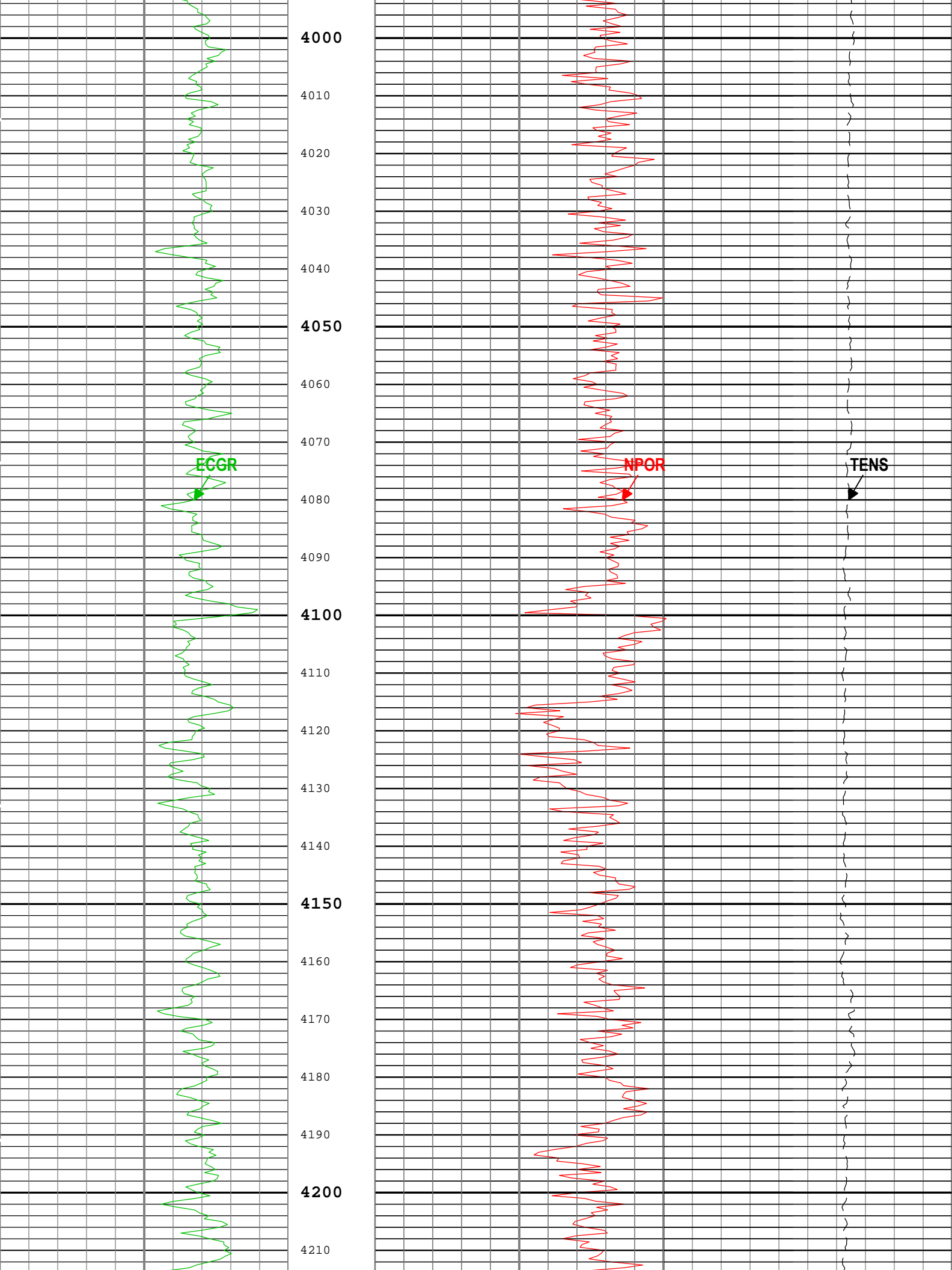




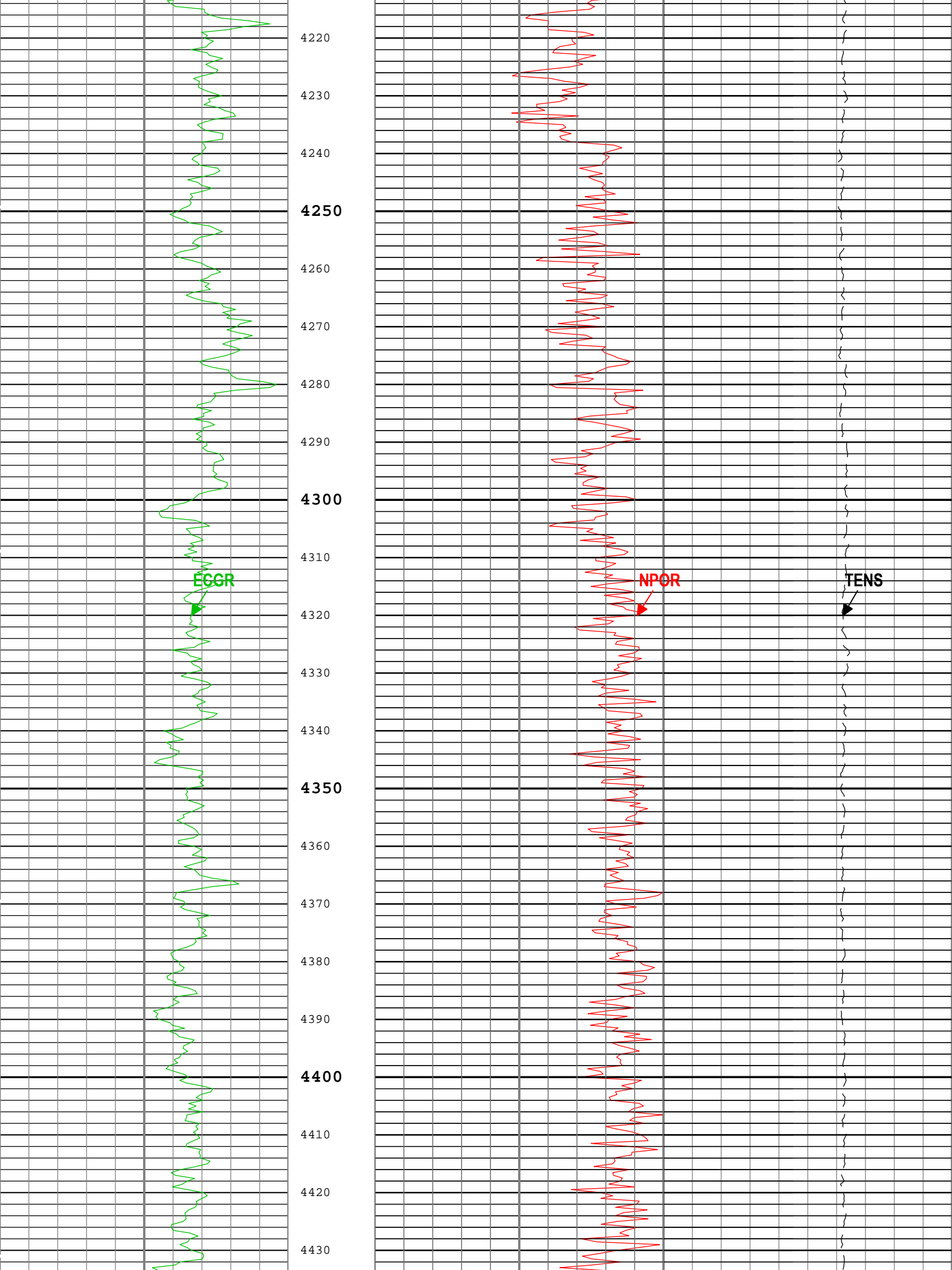


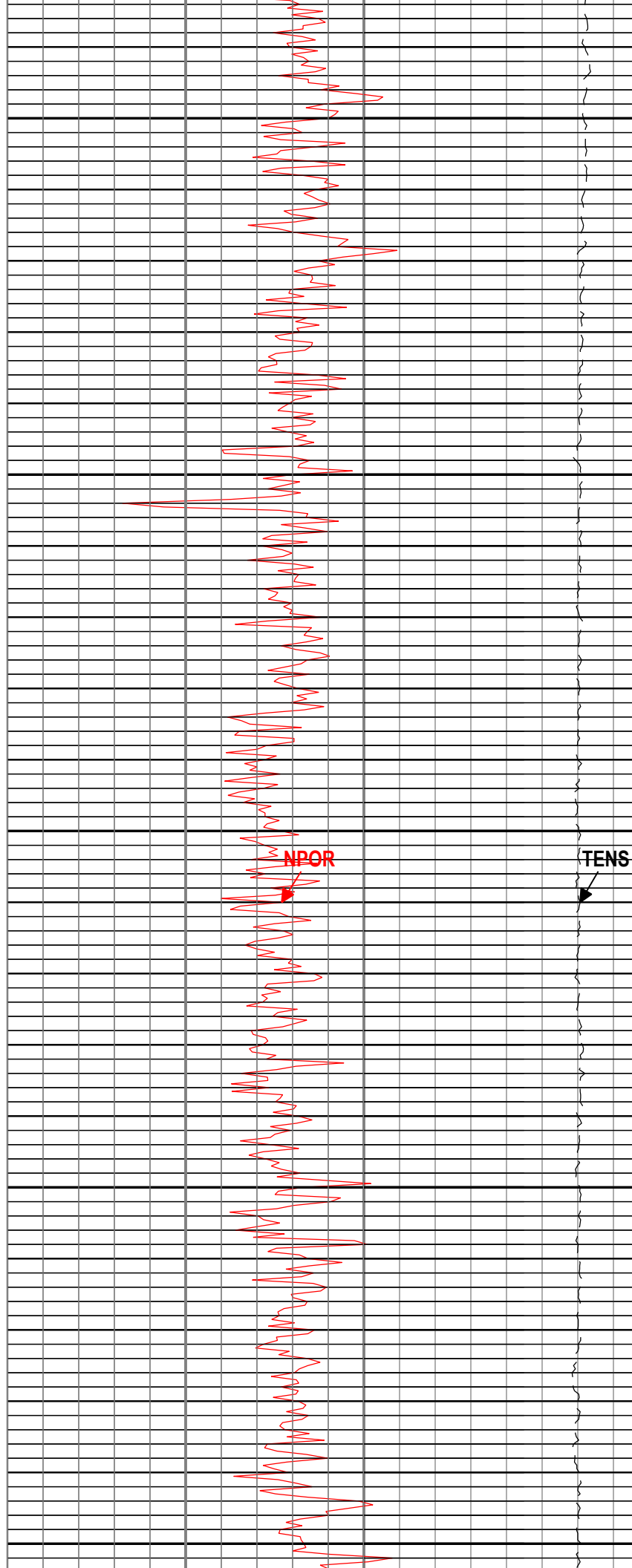
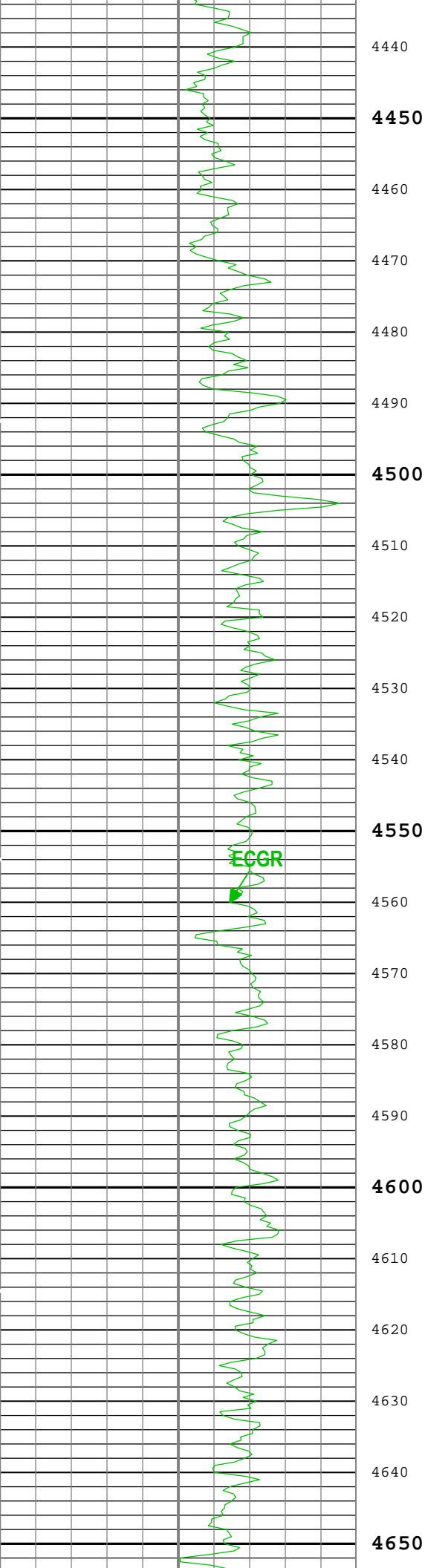


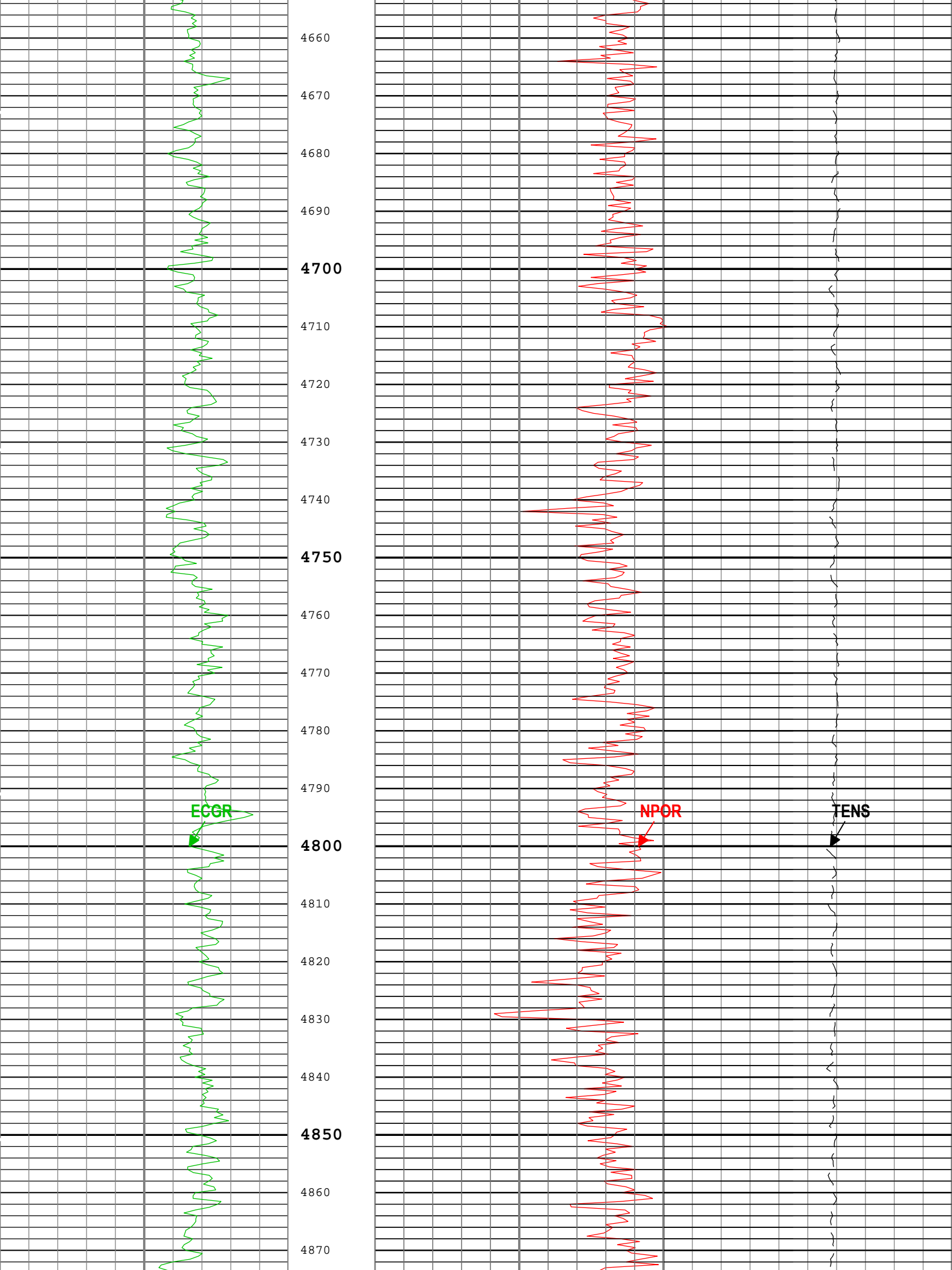


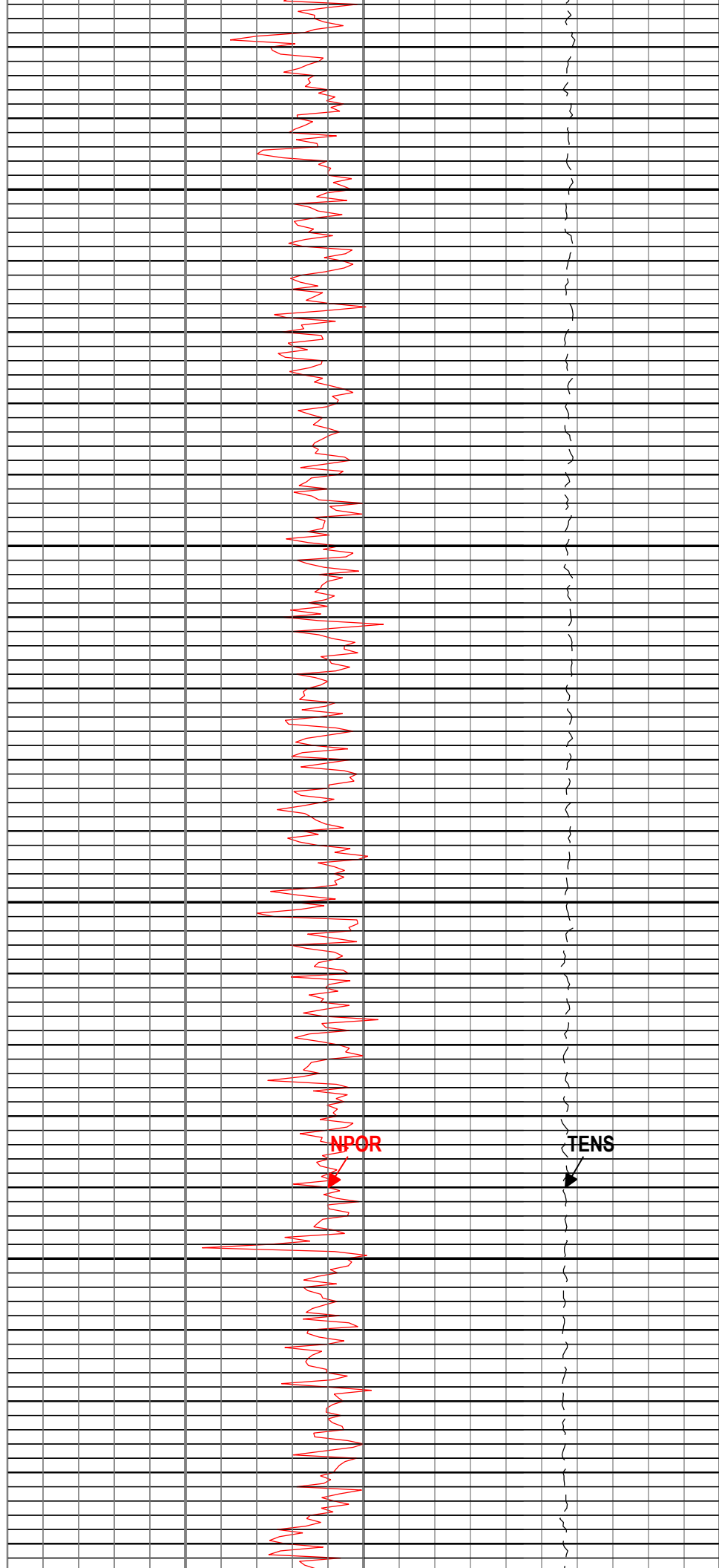
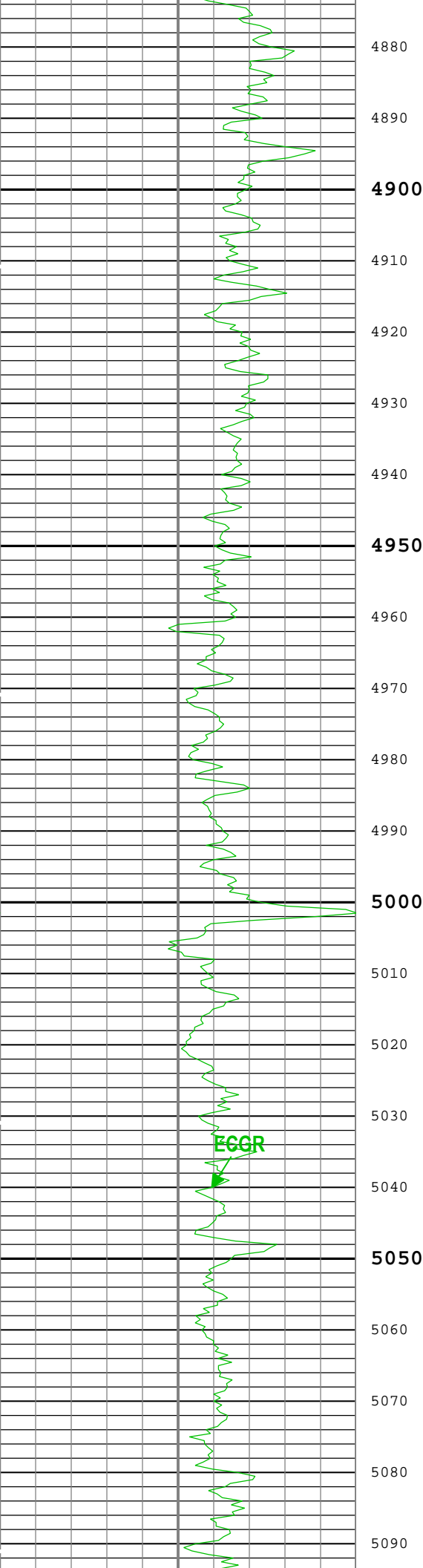


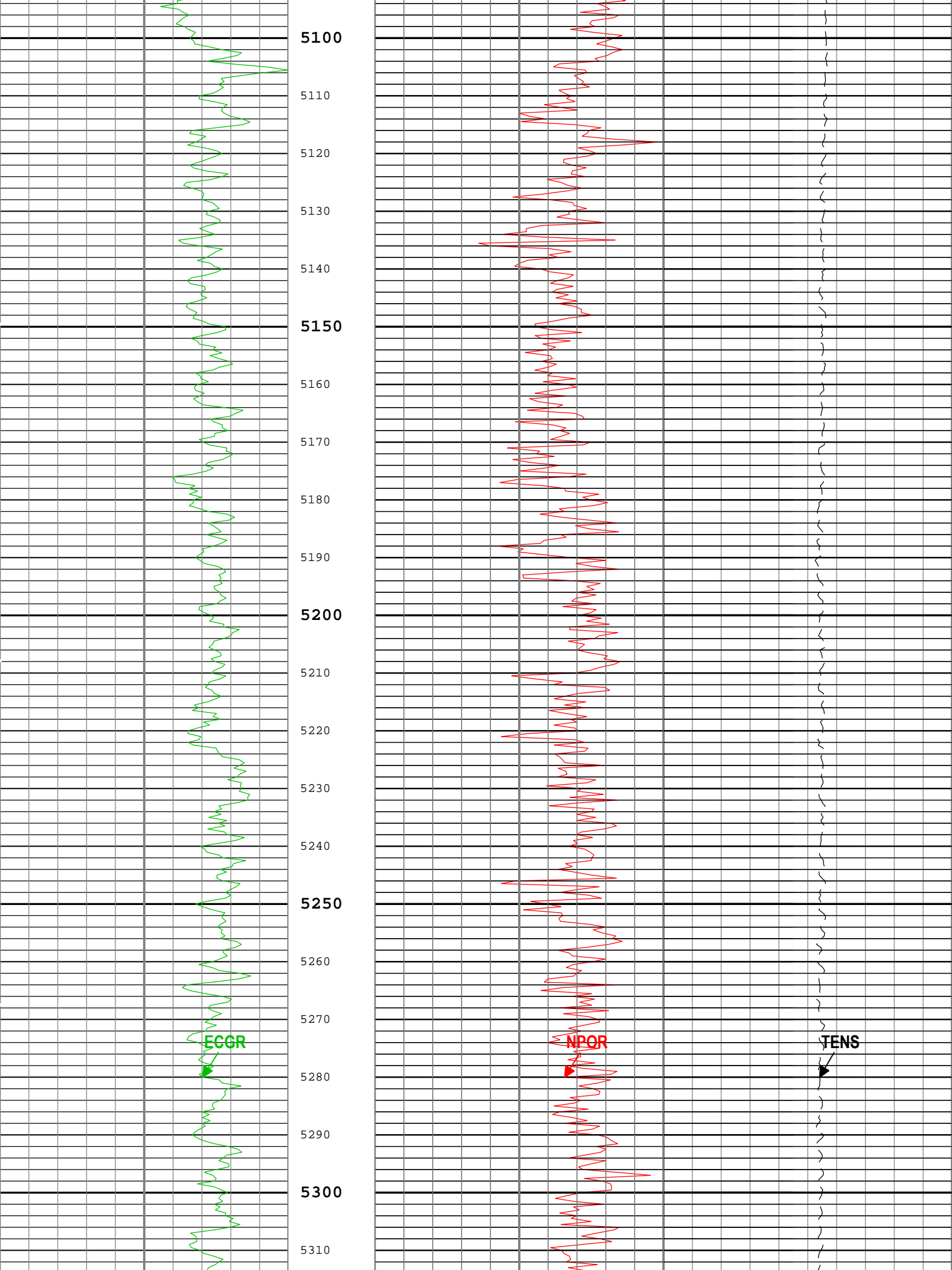


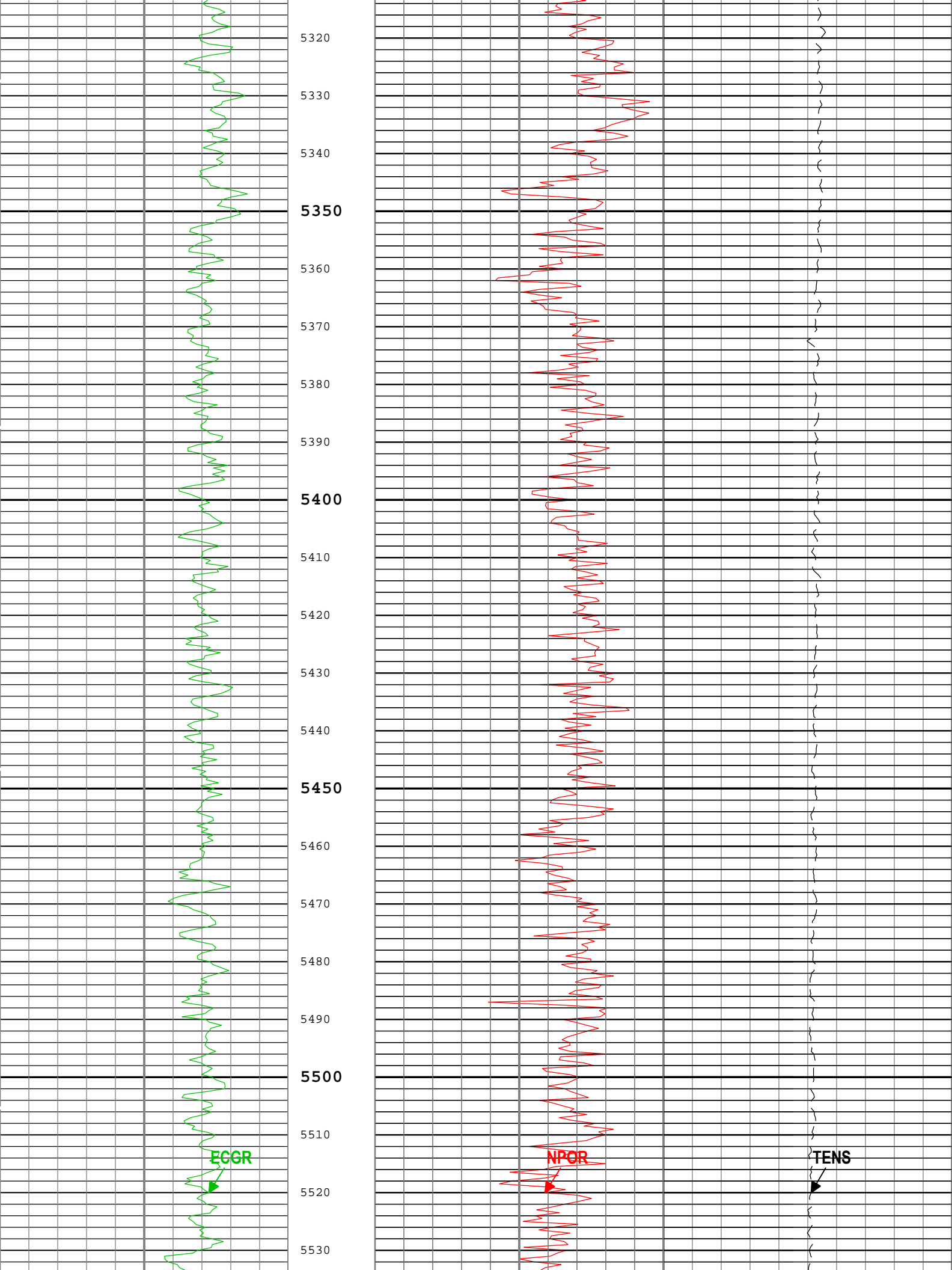


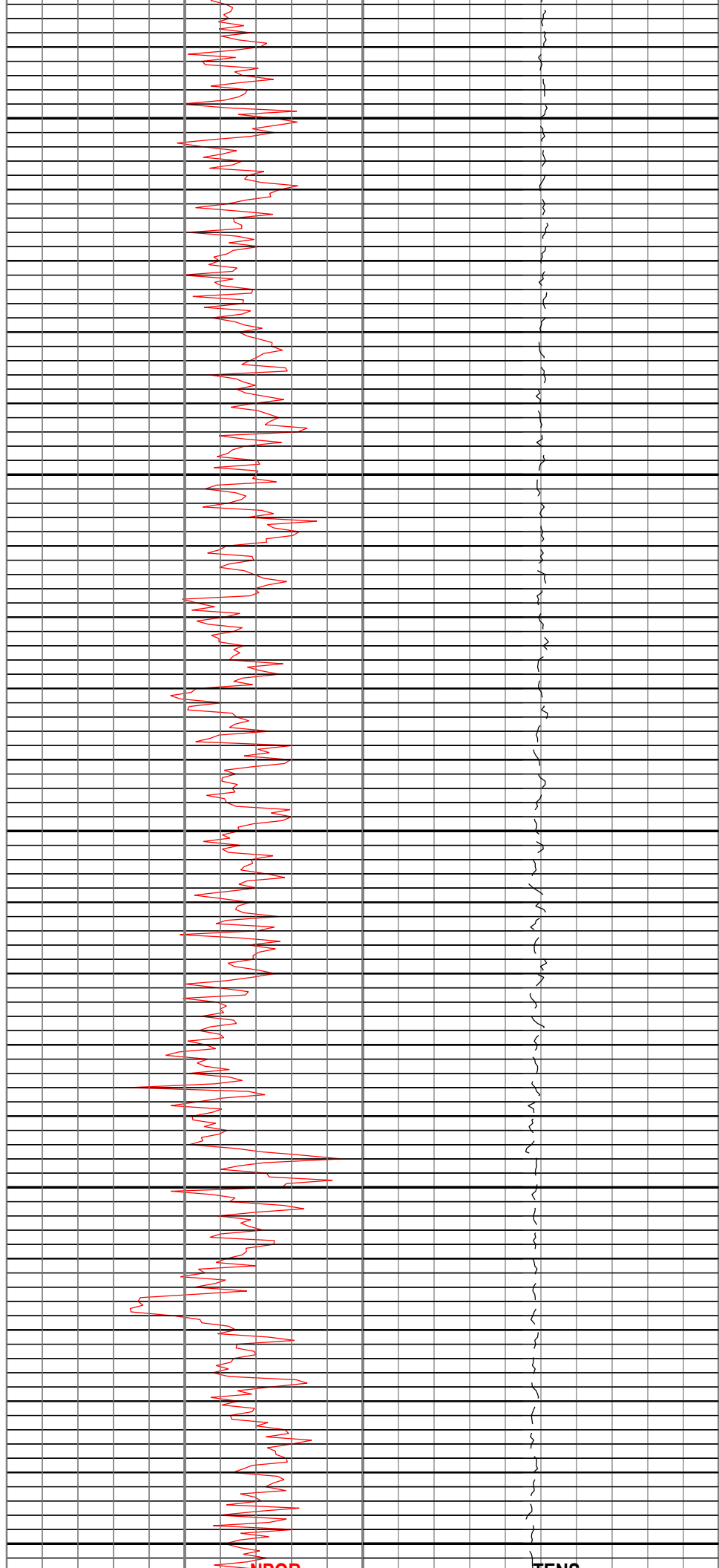
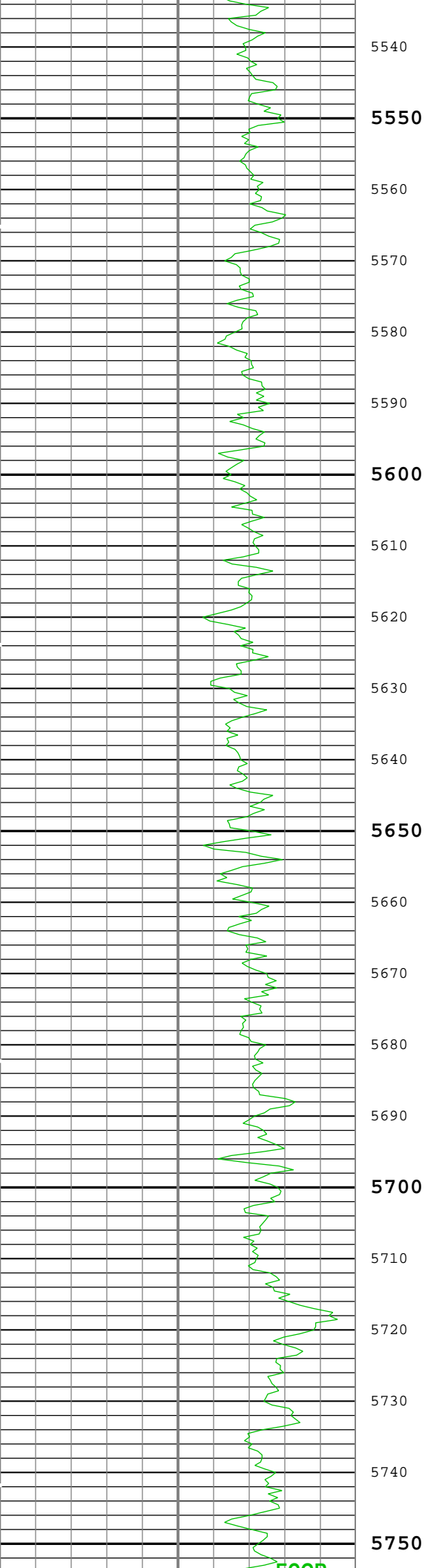


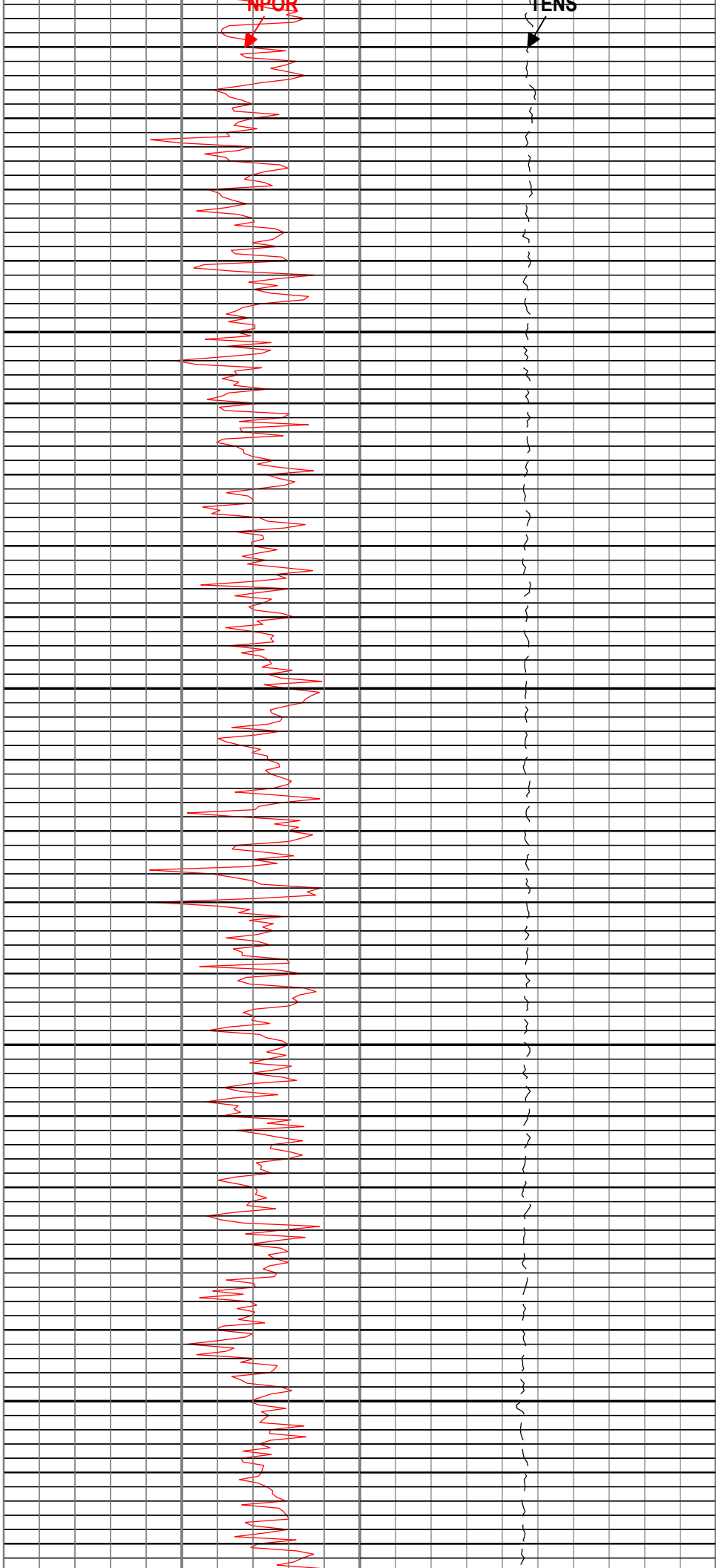
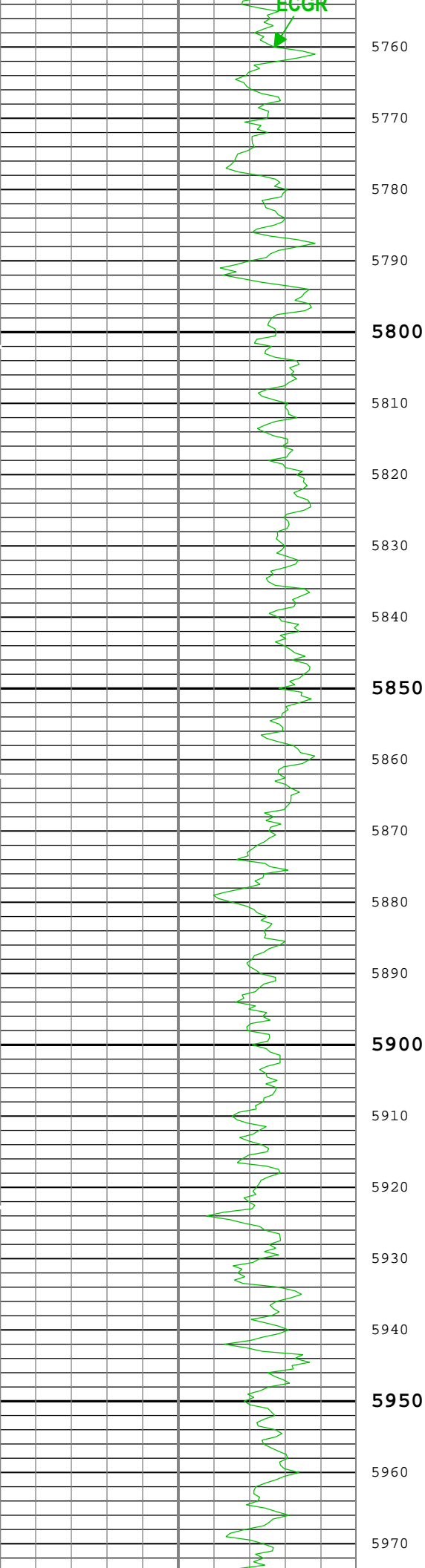




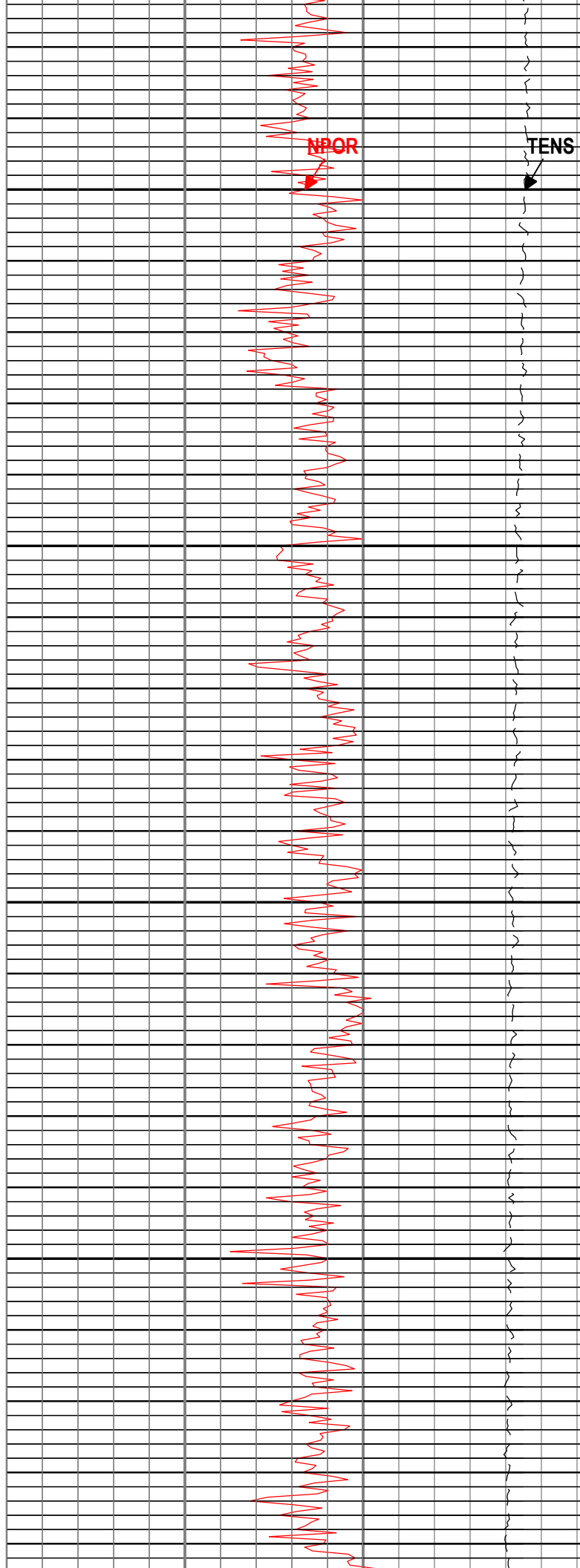
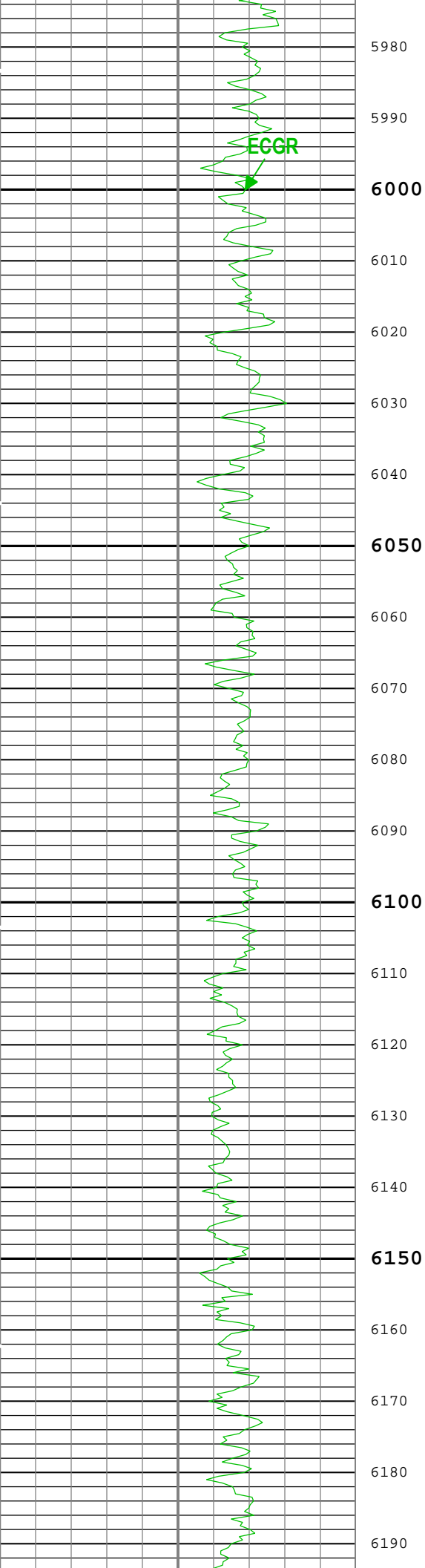


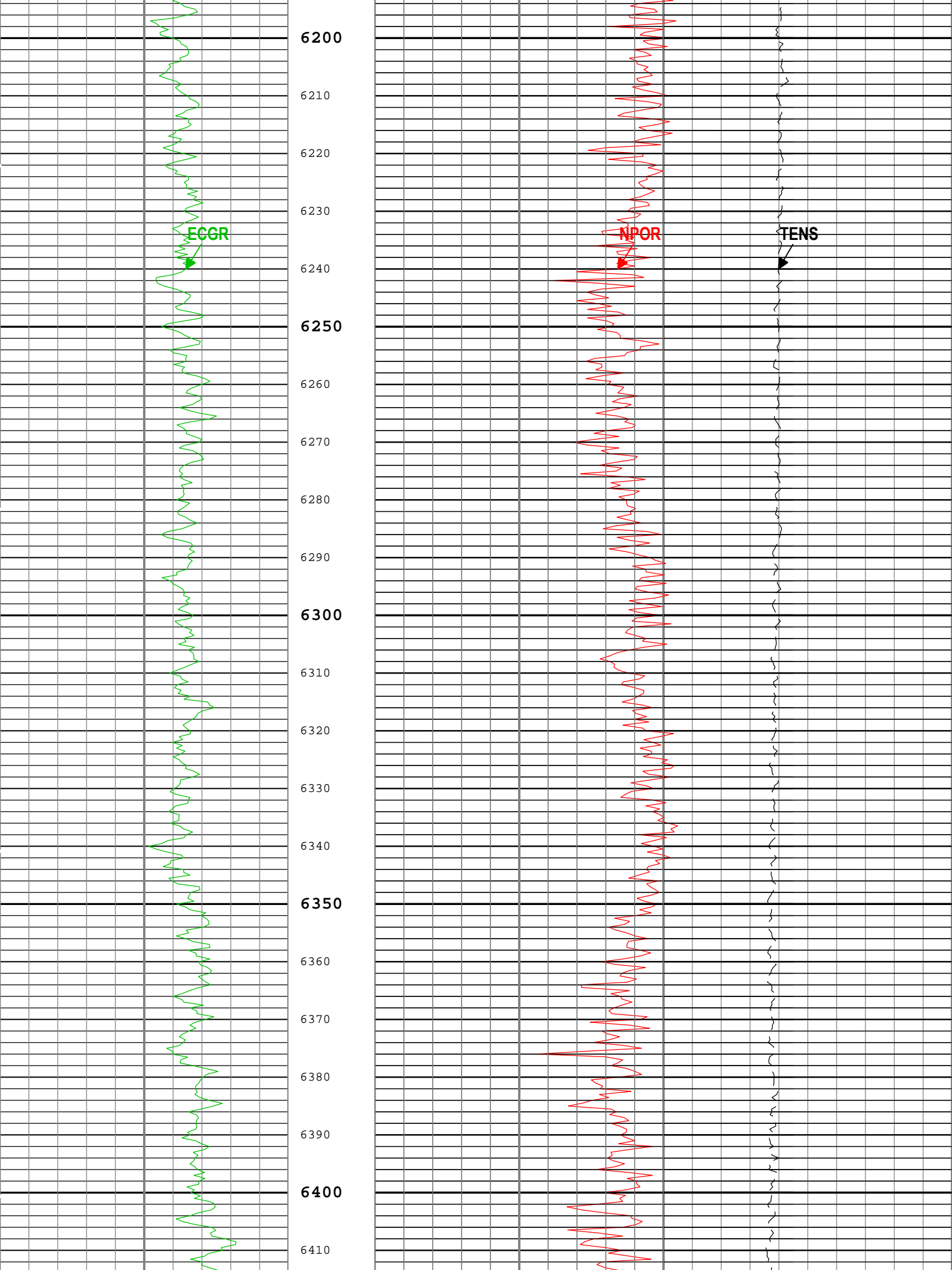


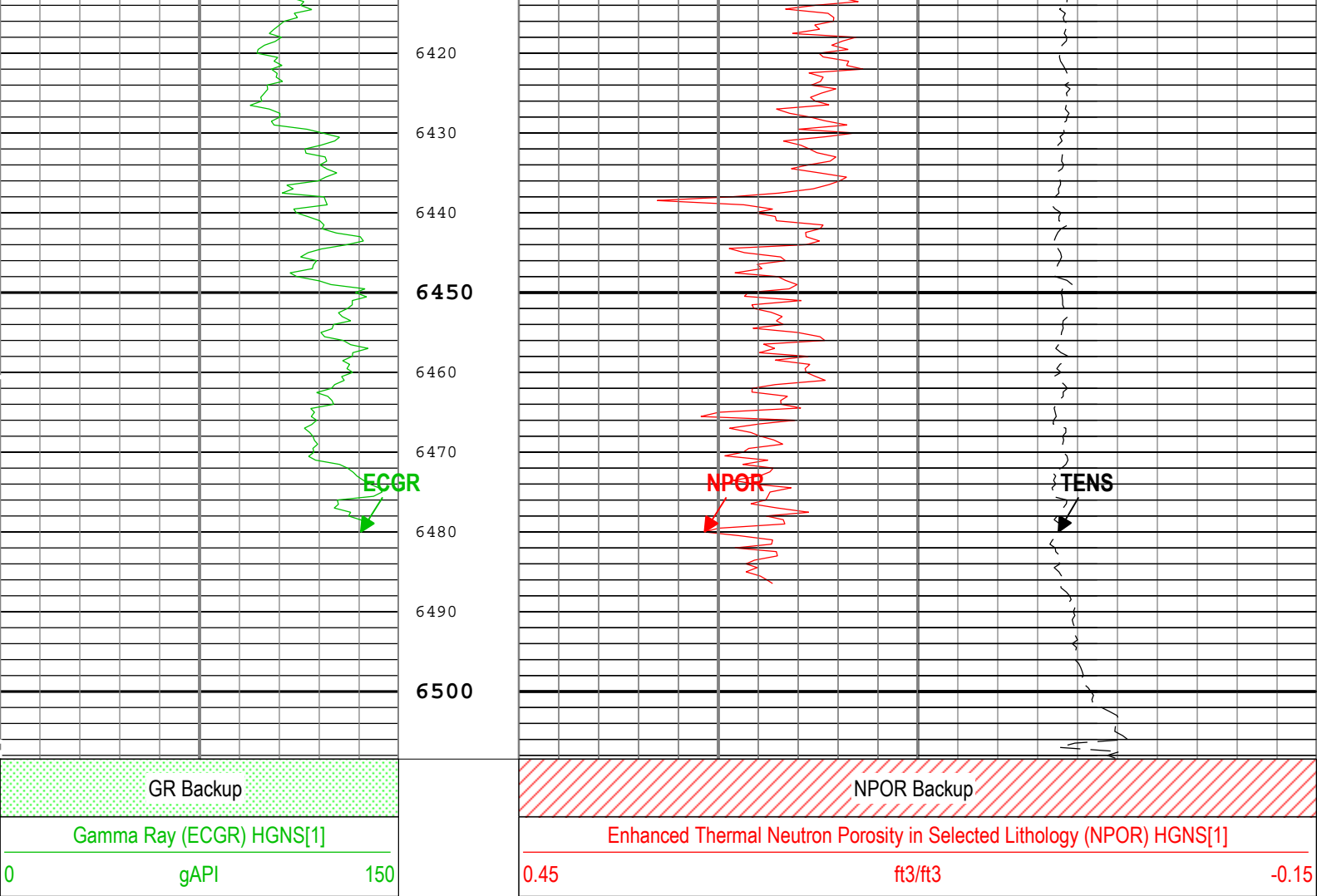












— ICV - Integrated Cement Volume every 100.00 (ft3)  
— ICV - Integrated Cement Volume every 10.00 (ft3)  
TIME\_1900 - Time Marked every 60.00 (s)  
— IHV - Integrated Hole Volume every 100.00 (ft3)  
— IHV - Integrated Hole Volume every 10.00 (ft3)

Description: AIT Basic Log Two    Format: Log ( Noble Nuclear )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 10-Apr-2017 05:43:04

## Channel Processing Parameters

### One: Parameters

| Parameter         | Description  | Tool            | Value          | Unit    |
|-------------------|--|-----------------|----------------|---------|
| ISSBAR            | Barite Mud Presence Flag                           | Borehole        | No             |         |
| BHS               | Borehole Status (Open or Cased Hole)               | Borehole        | Cased          |         |
| BHT               | Bottom Hole Temperature                            | Borehole        | 218            | degF    |
| BS                | Bit Size   | WLSESSION       | Depth Zoned    | in      |
| BSAL              | Borehole Salinity                                  | Borehole        | 0              | ppm     |
| CBLO              | Casing Bottom (Logger)                             | WLSESSION       | 16753.9        | ft      |
| CDEN              | Cement Density                                     | HGNS-H          | 2              | g/cm3   |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E          | Regular Cement |         |
| CSODDRL           | Casing Outer Diameter - Zoned along driller depths | WLSESSION       | 5.5            | in      |
| DC_MODE           | Depth Correction Mode                              | DepthCorrection | Real-time      |         |
| DFD               | Drilling Fluid Density                             | Borehole        | 9.3            | lbm/gal |

|                |  |           |                 |              |
|----------------|--|-----------|-----------------|--------------|
| DFT            | Drilling Fluid Type  | Borehole  | Water           |              |
| DFT_WATER      | Drilling Fluid Water Type  | Borehole  | Brine           |              |
| EDF            | Elevation of Derrick Floor Above Permanent Datum                                 | WLSESSION | 29              | ft           |
| EPD            | Elevation of Permanent Datum (PDAT) above Mean Sea Level                         | WLSESSION | 4708            | ft           |
| FSAL           | Formation Salinity   | Borehole  | 0               | ppm          |
| 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)          |              |
| GGRD           | Geothermal Gradient  | Borehole  | 1               | 0.01 degF/ft |
| GRSE           | Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity | Borehole  | REMS(RT)        |              |
| GTSE           | Generalized Temperature Selection, from Measured or Computed Temperature         | Borehole  | GTEM_LINEST(RT) |              |
| HSCO           | Hole Size Correction Option  | HGNS-H    | Yes             |              |
| IMAR           | Image Rotation   | USIT-E    | Off             |              |
| MATR           | Rock Matrix for Neutron Porosity Corrections                                     | Borehole  | LIMESTONE       |              |
| MFST           | Mud Filtrate Sample Temperature  | Borehole  | 68              | degF         |
| MST            | Mud Sample Temperature   | Borehole  | 68              | degF         |
| PDAT           | Permanent Datum  | WLSESSION | GL              |              |
| RMFS           | Resistivity of Mud Filtrate Sample   | Borehole  | 0.15            | ohm.m        |
| RMS            | Resistivity of Mud Sample  | Borehole  | 0.2             | ohm.m        |
| SHT            | Surface Hole Temperature   | Borehole  | 68              | degF         |
| U-USIT_DFSZ    | Drilling Fluid Specific Acoustic Impedance                                       | USIT-E    | 0.1             | Mrayl        |
| UFGDE          | Fiberglass Density   | USIT-E    | 1.95            | g/cm3        |
| UFGPS          | Fiberglass Processing Selection  | USIT-E    | No              |              |
| UFGVL          | Fiberglass Velocity  | USIT-E    | 9678.48         | ft/s         |
| USI_FSOD       | USIT USI Fluid Slowness Fits Casing Outer Diameter                               | USIT-E    | 0_OFF           |              |
| USI_FVEL_SEL   | USI Fluid Velocity Selection   | USIT-E    | Automatic       |              |
| USI_ZMUD_SEL   | USI Mud Impedance Selection  | USIT-E    | FreePipe Norm.  |              |

OneDepth Zoned Parameters

| Parameter | Value | Start ( ft ) | Stop ( ft ) |
|-----------|-------|--------------|-------------|
| BS        | 26    | 36           | 110         |
| BS        | 13.5  | 110          | 1930        |
| BS        | 8.5   | 1930         | 6508.5      |

All depth are actual.

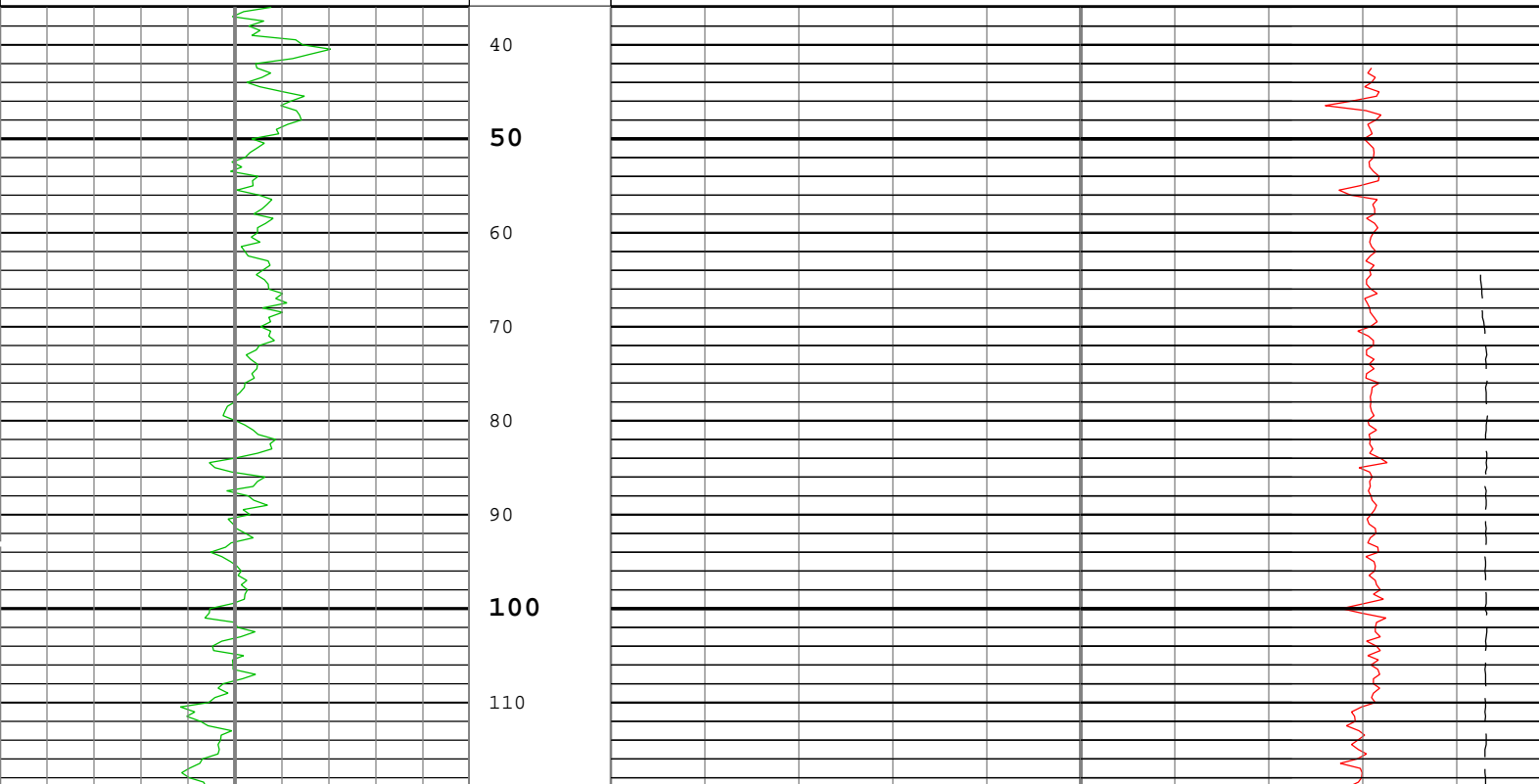
Tool Control Parameters

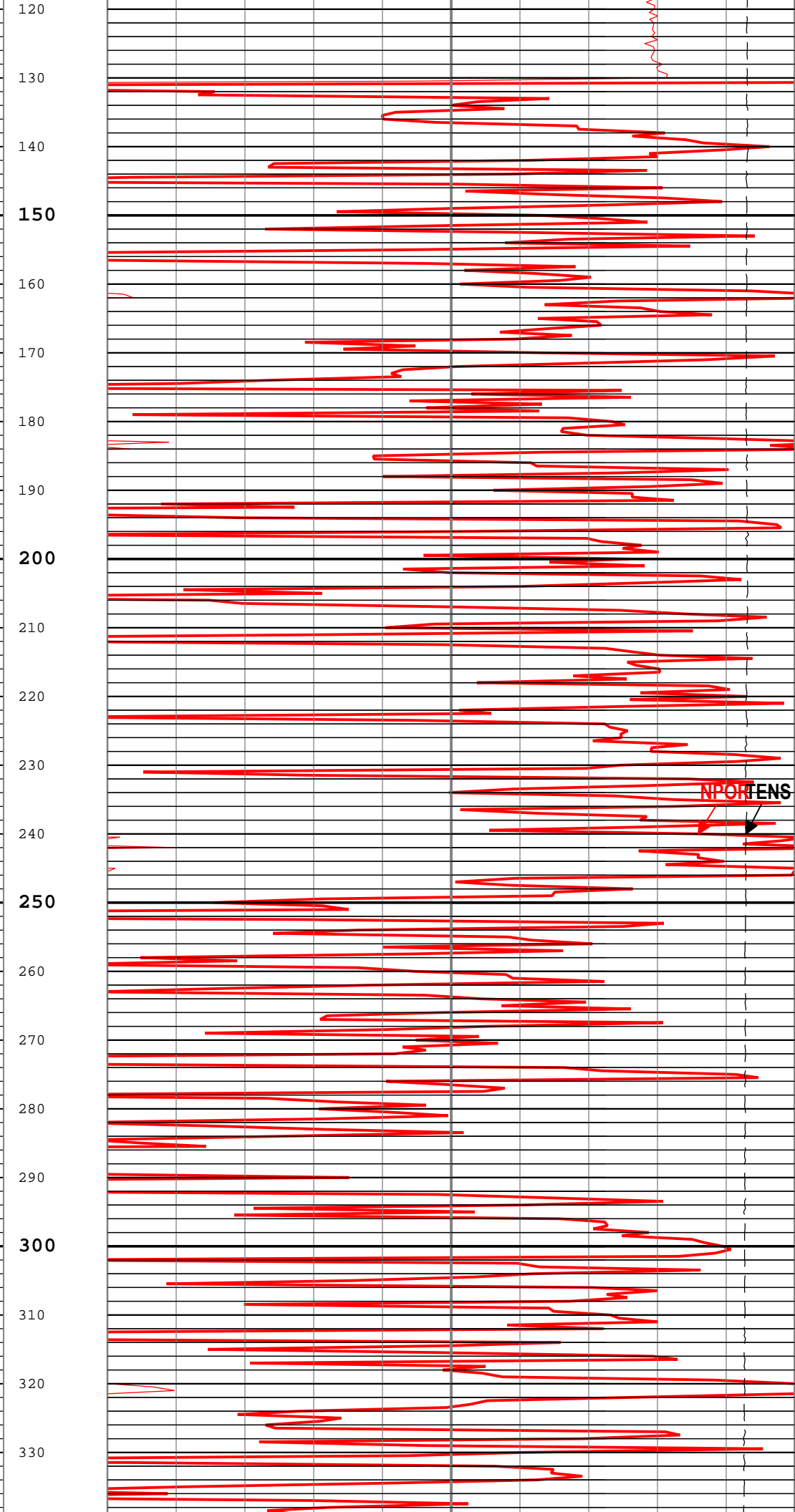
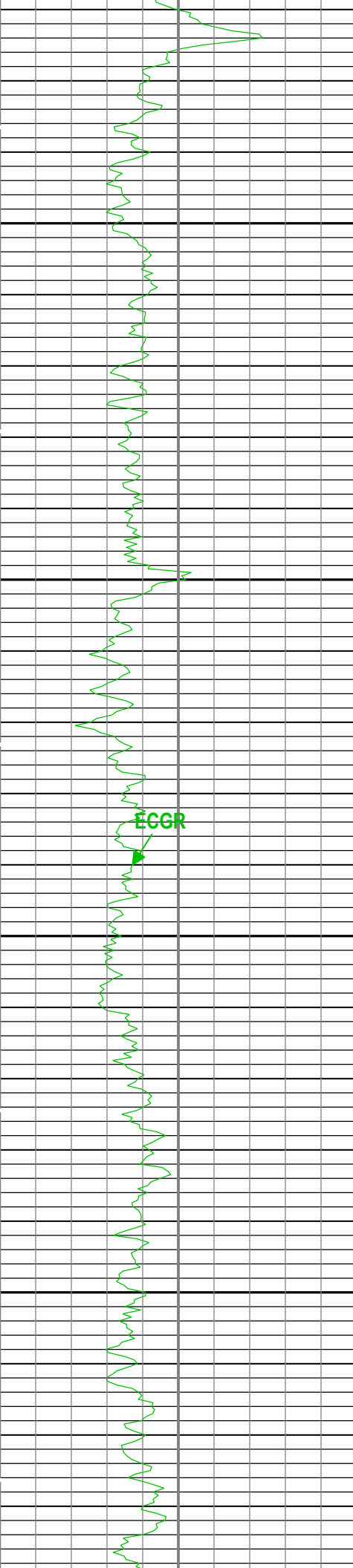
One: Parameters

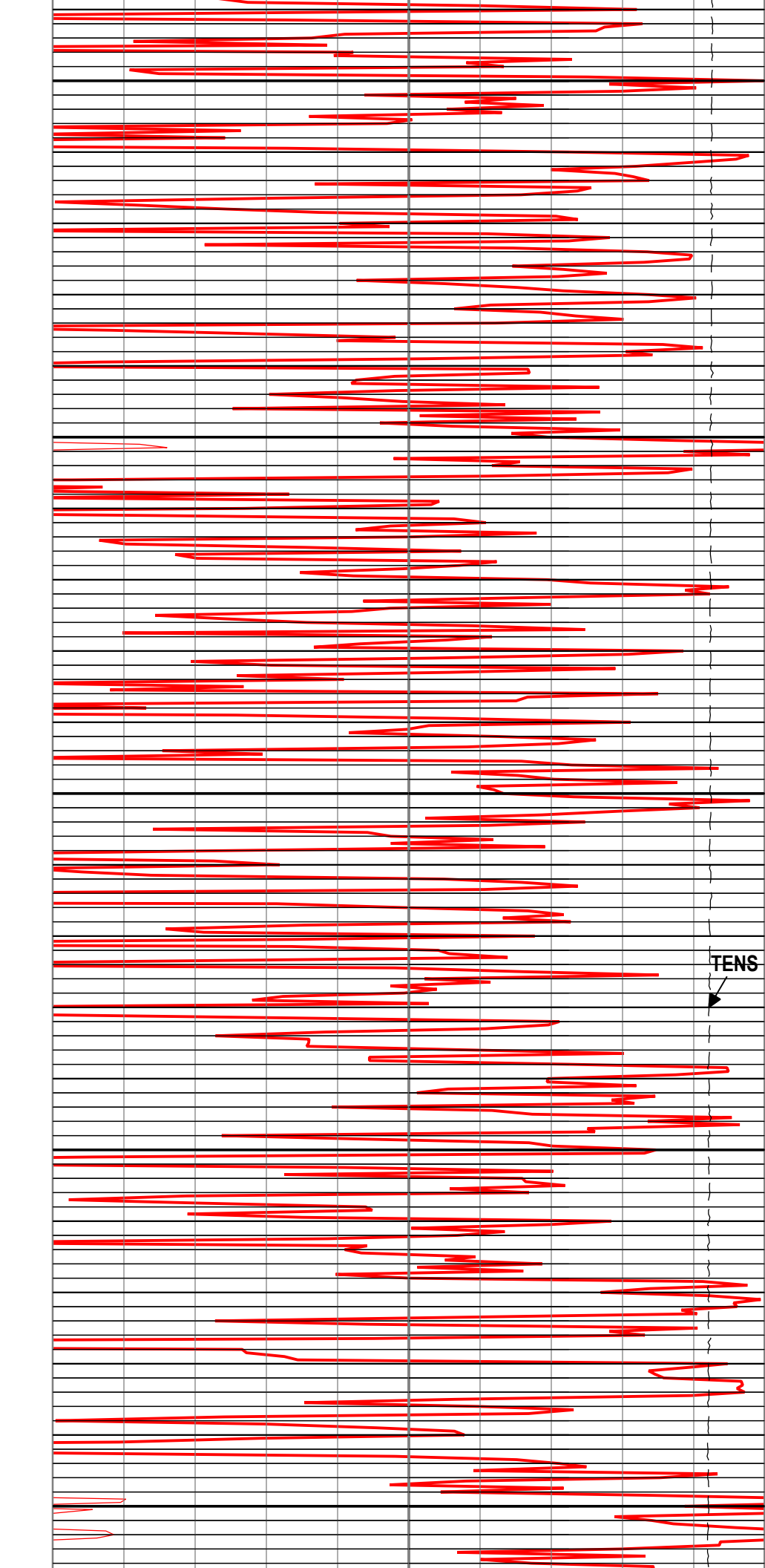
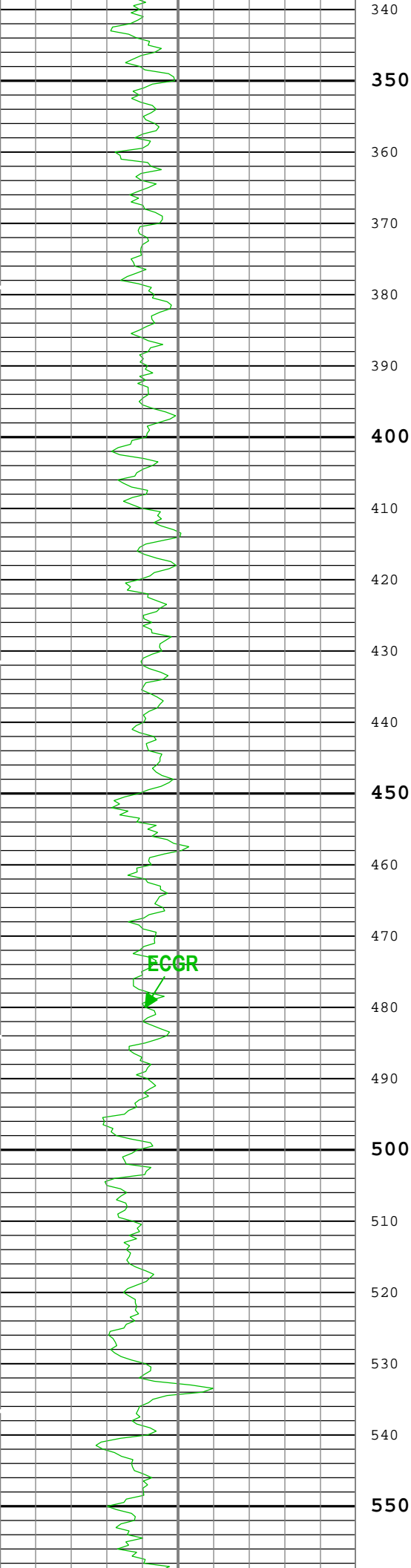
| Parameter     | Description                        | Tool      | Value                            | Unit |
|---------------|------------------------------------|-----------|----------------------------------|------|
| MAX_LOG_SPEED | Toolstring Maximum Logging Speed   | WLSESSION | 3600                             | ft/h |
| ULOG          | Logging Objective                  | USIT-E    | MEASUREMENT                      |      |
| UMFR          | Modulation Frequency               | USIT-E    | 333333                           | Hz   |
| UPAT          | USIT Emission Pattern              | USIT-E    | Pattern 375 KHz                  |      |
| UWKM          | USIT Working Mode                  | USIT-E    | Uncompressed 10 deg at 6.0 in LF |      |
| USIT_DEPTHLOG | Starting Depth Log for Ultrasonics | USIT-E    | 6500                             | ft   |
| WINB          | Window Begin Time                  | USIT-E    | 31.88                            | us   |
| WINE          | Window End Time                    | USIT-E    | 71.88                            | us   |

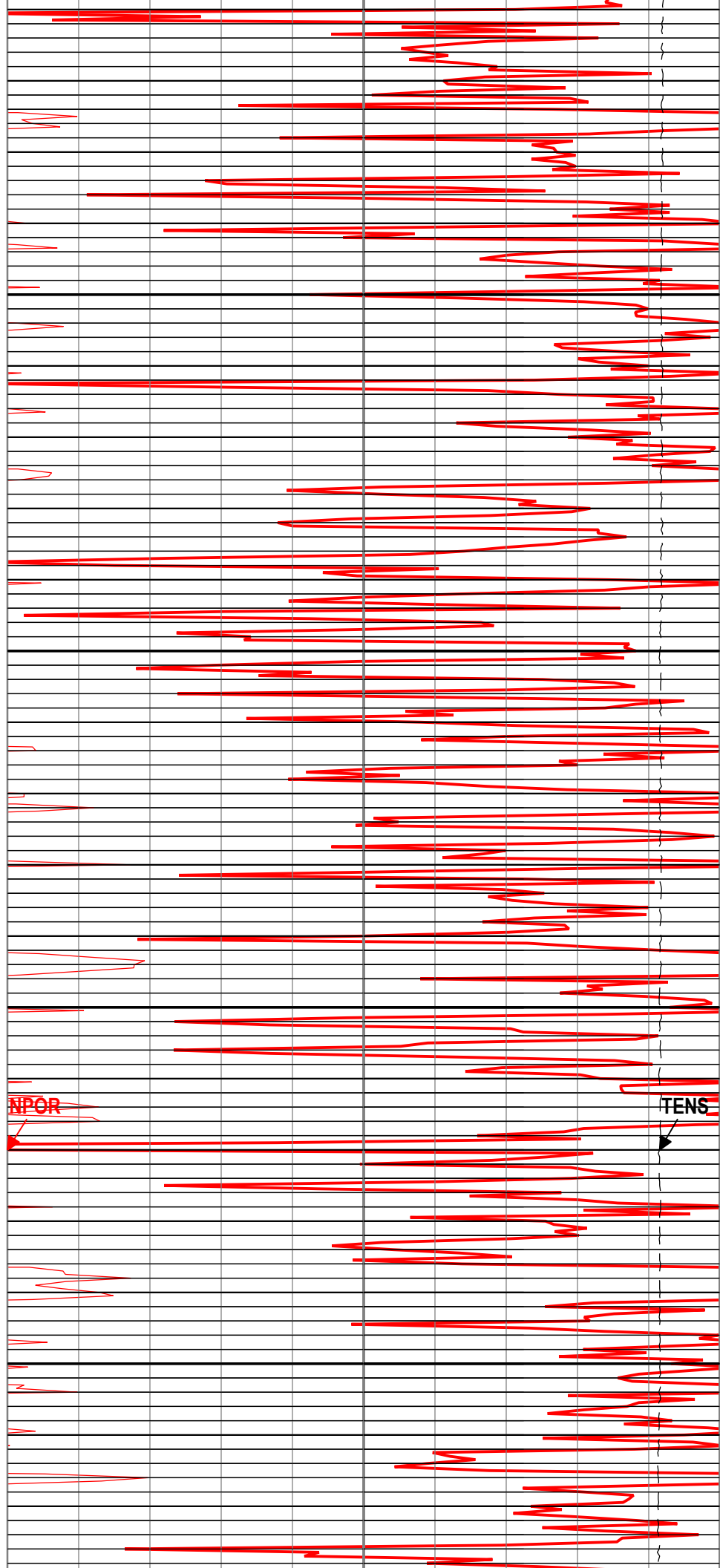
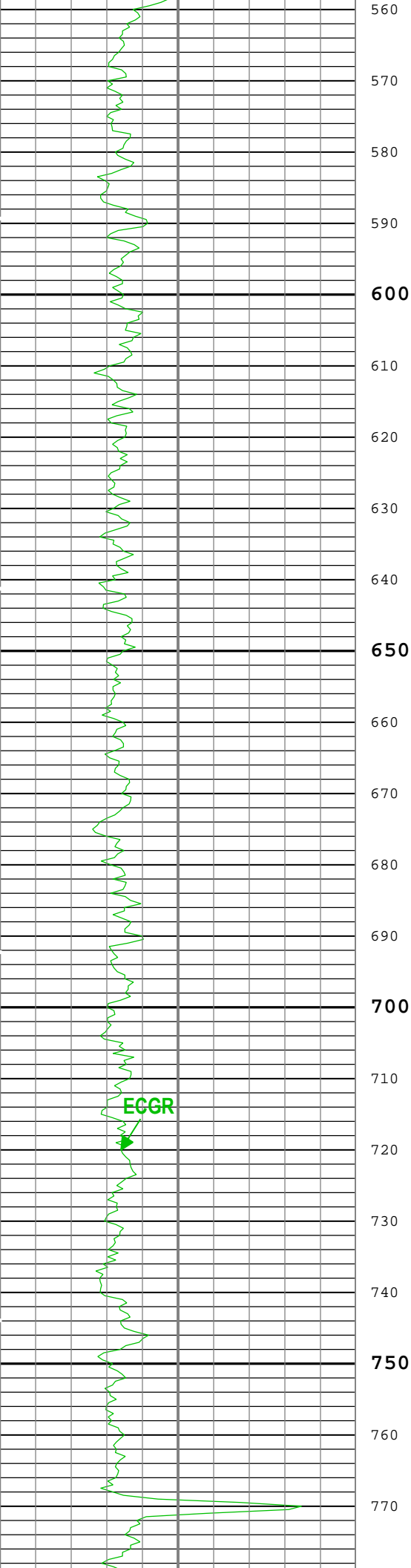
Composite 1

Software Version

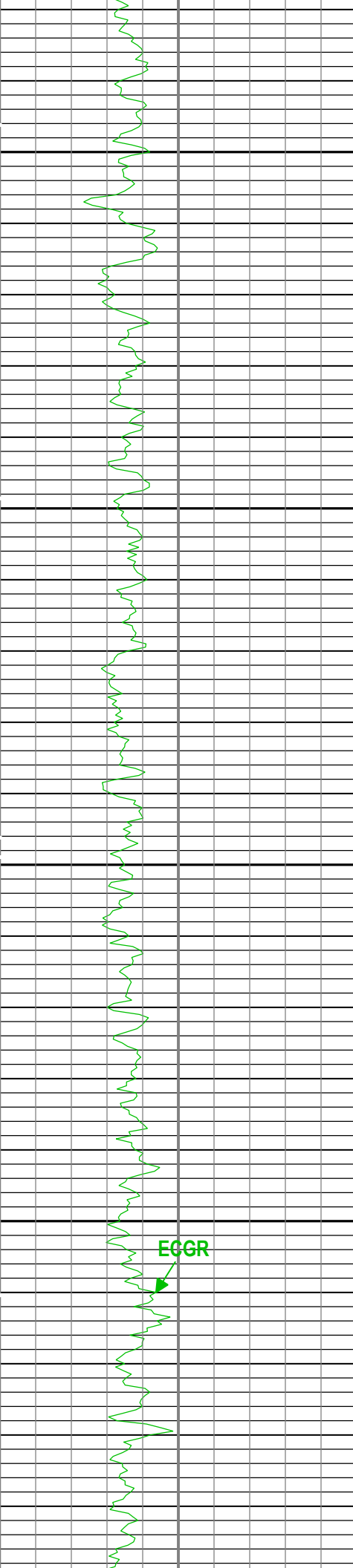




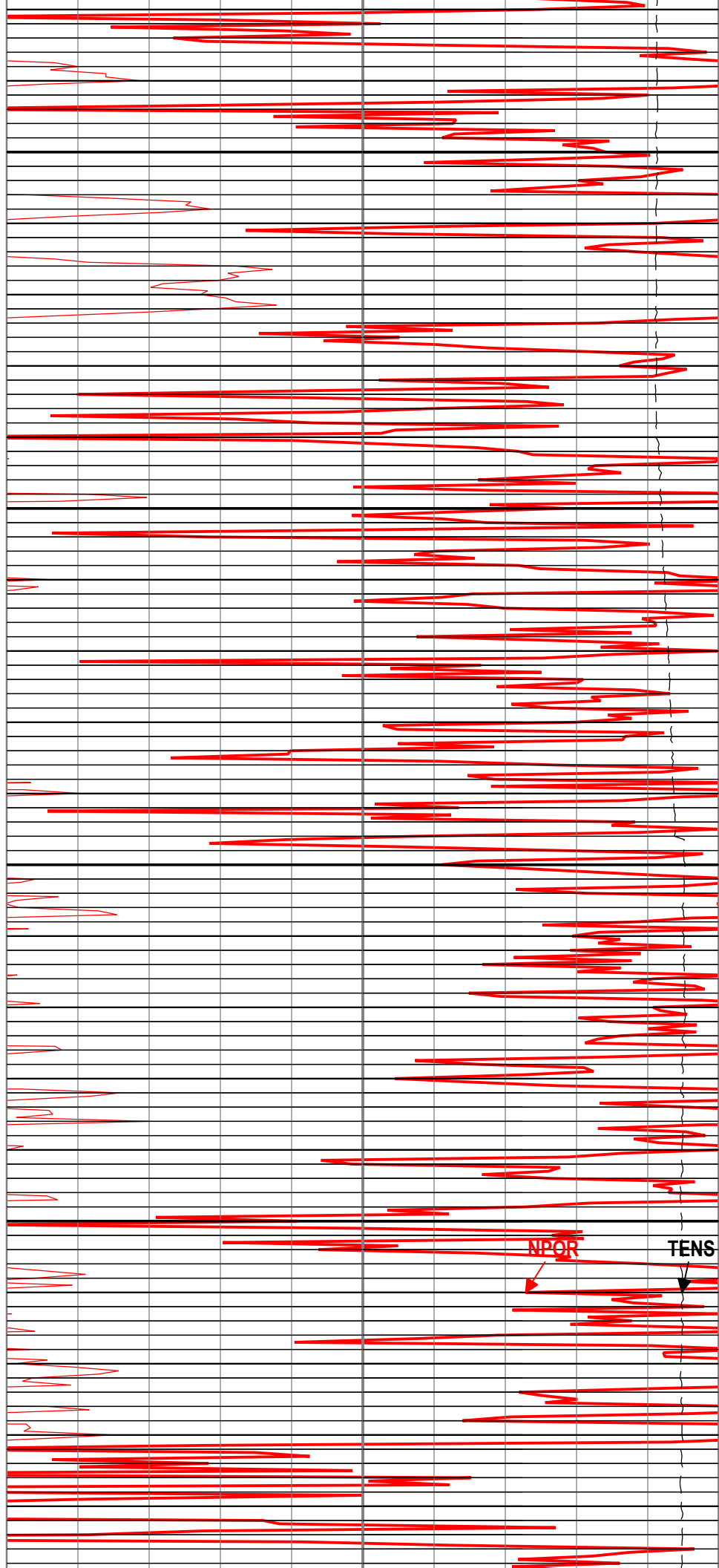


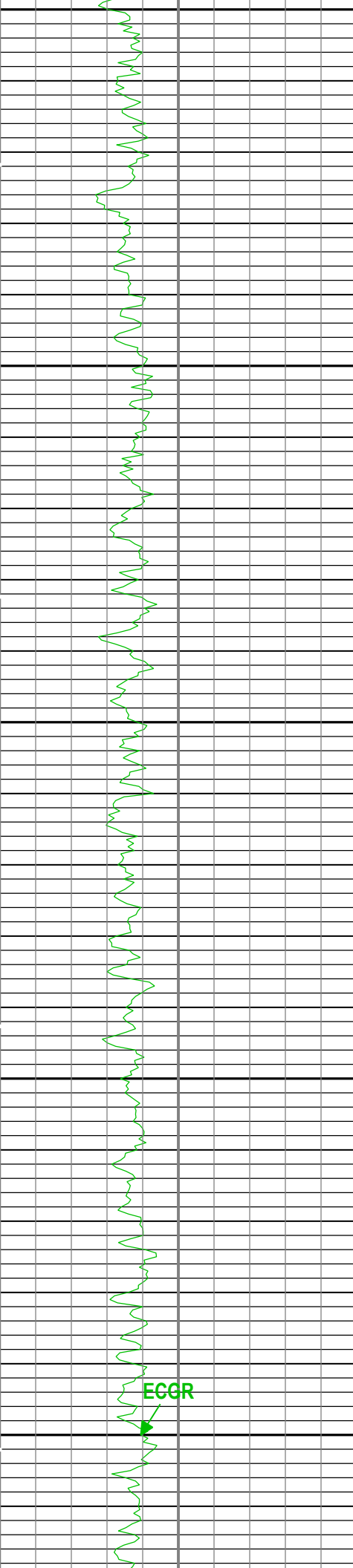




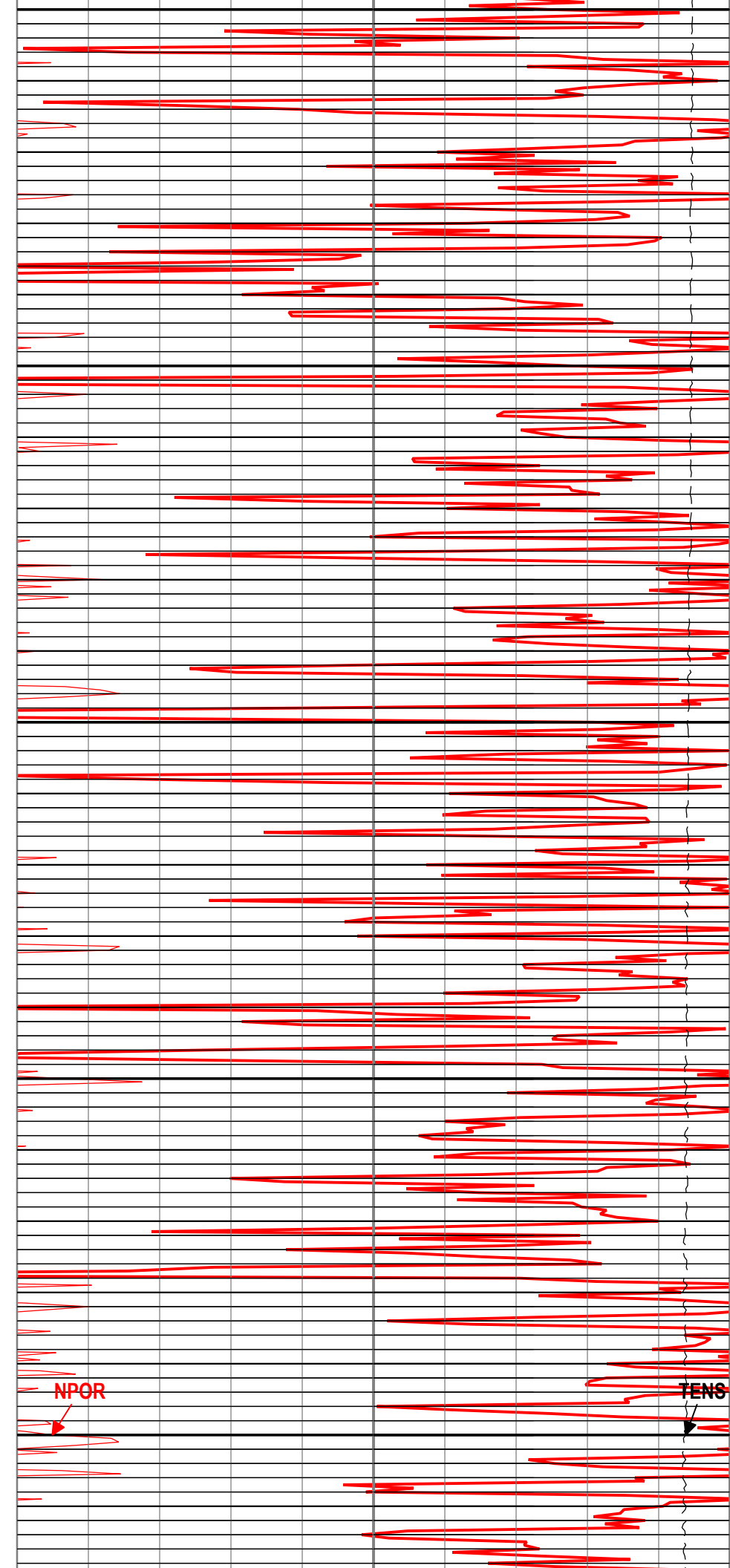


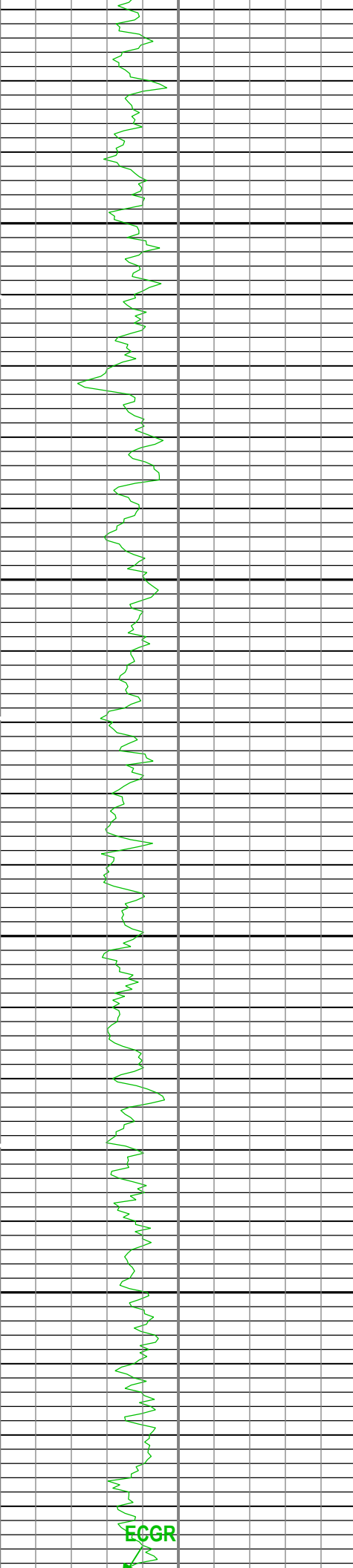
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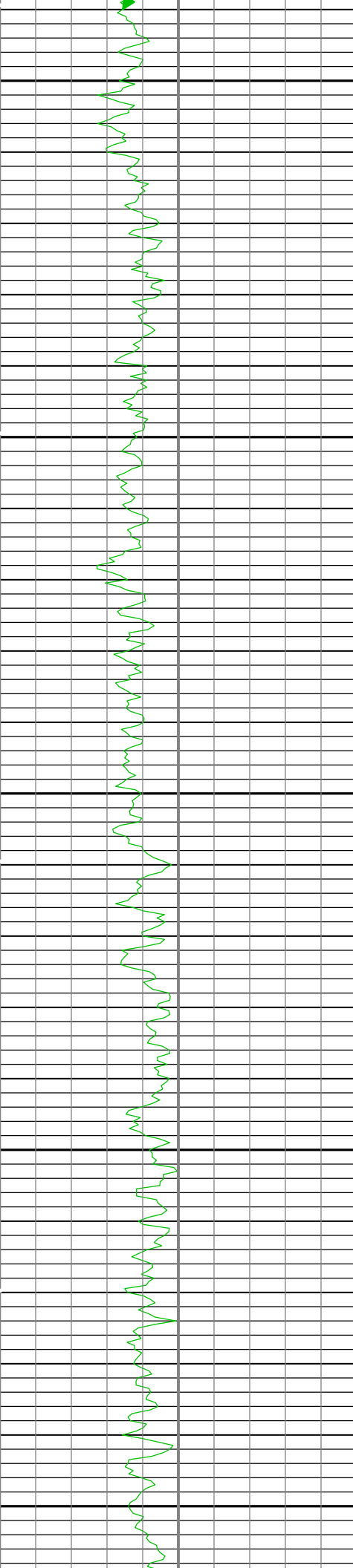
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1200  
1210



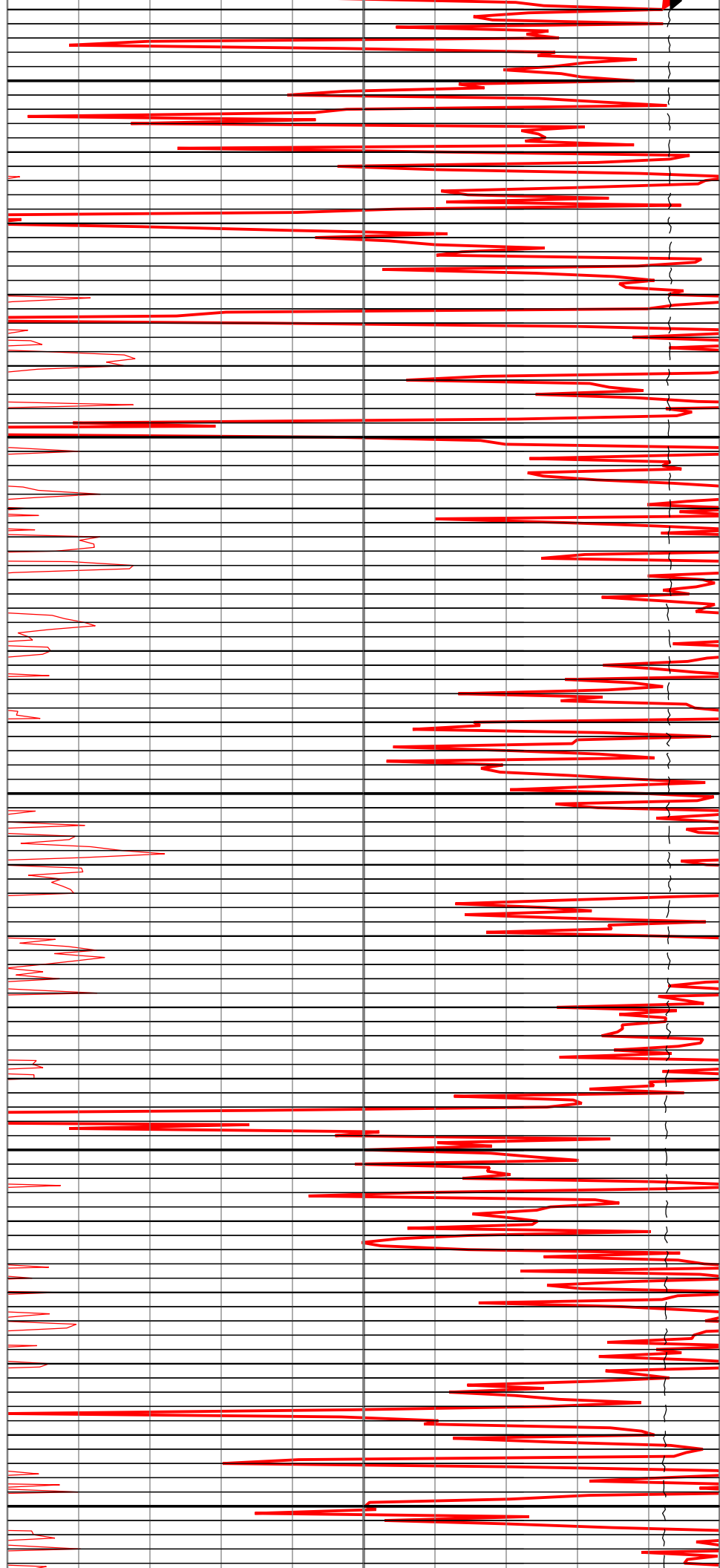


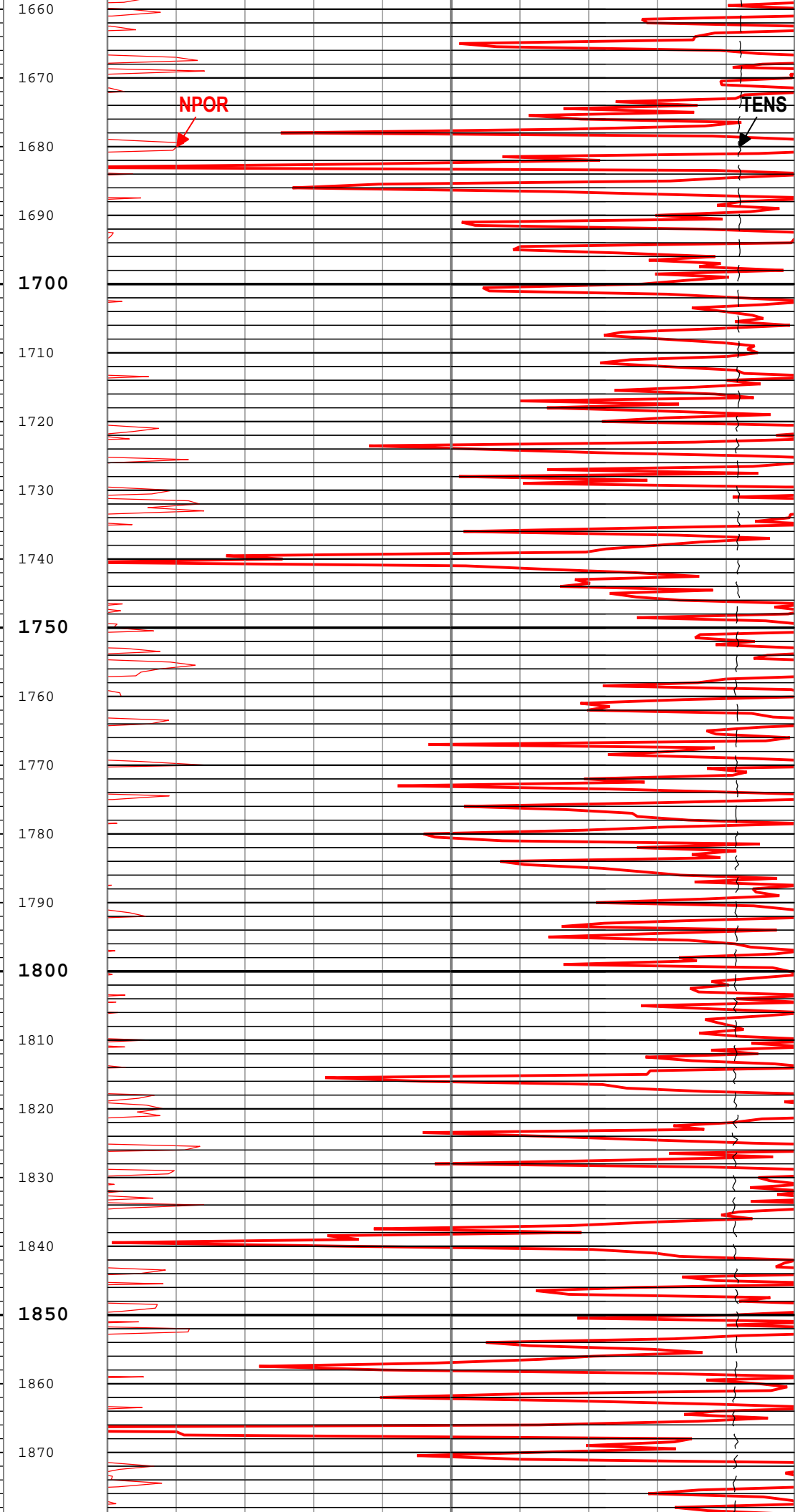
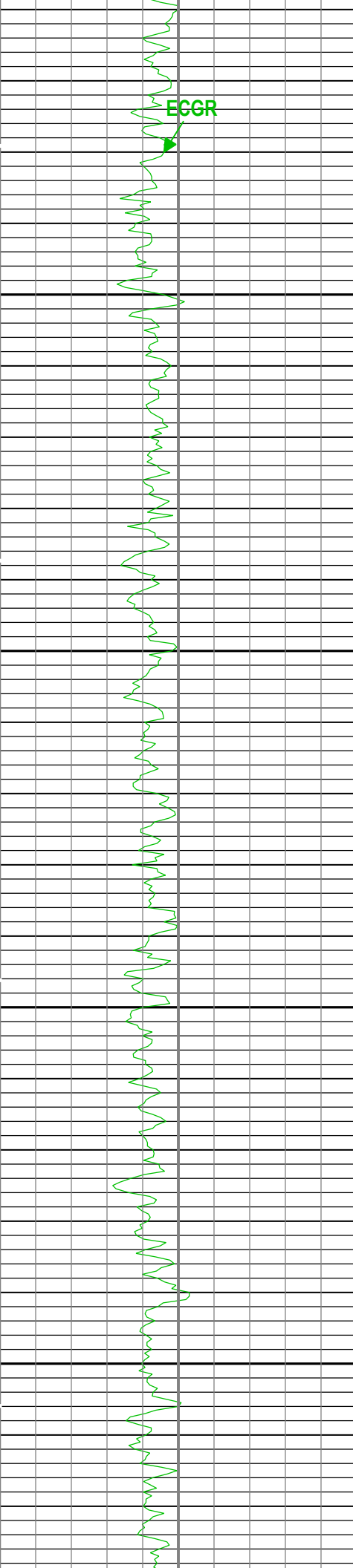
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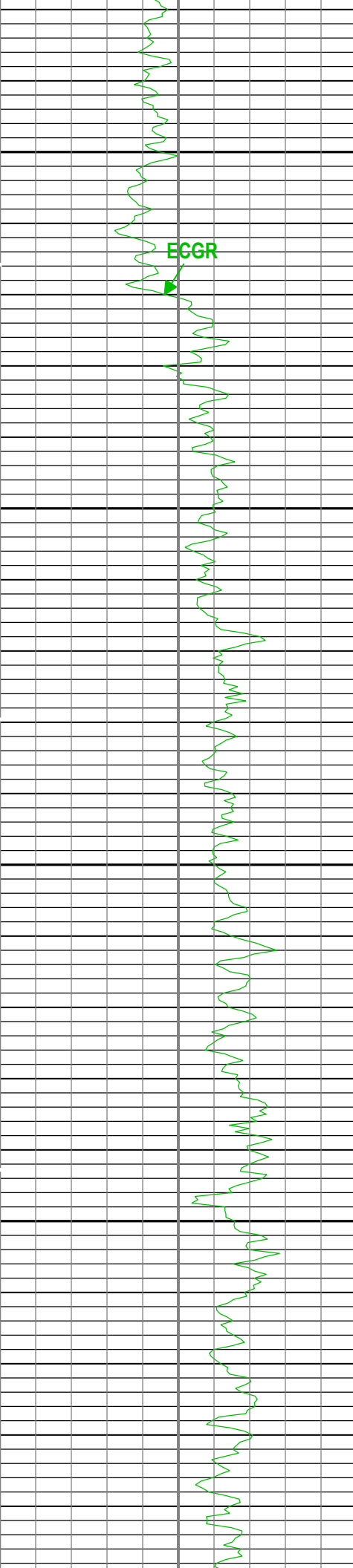




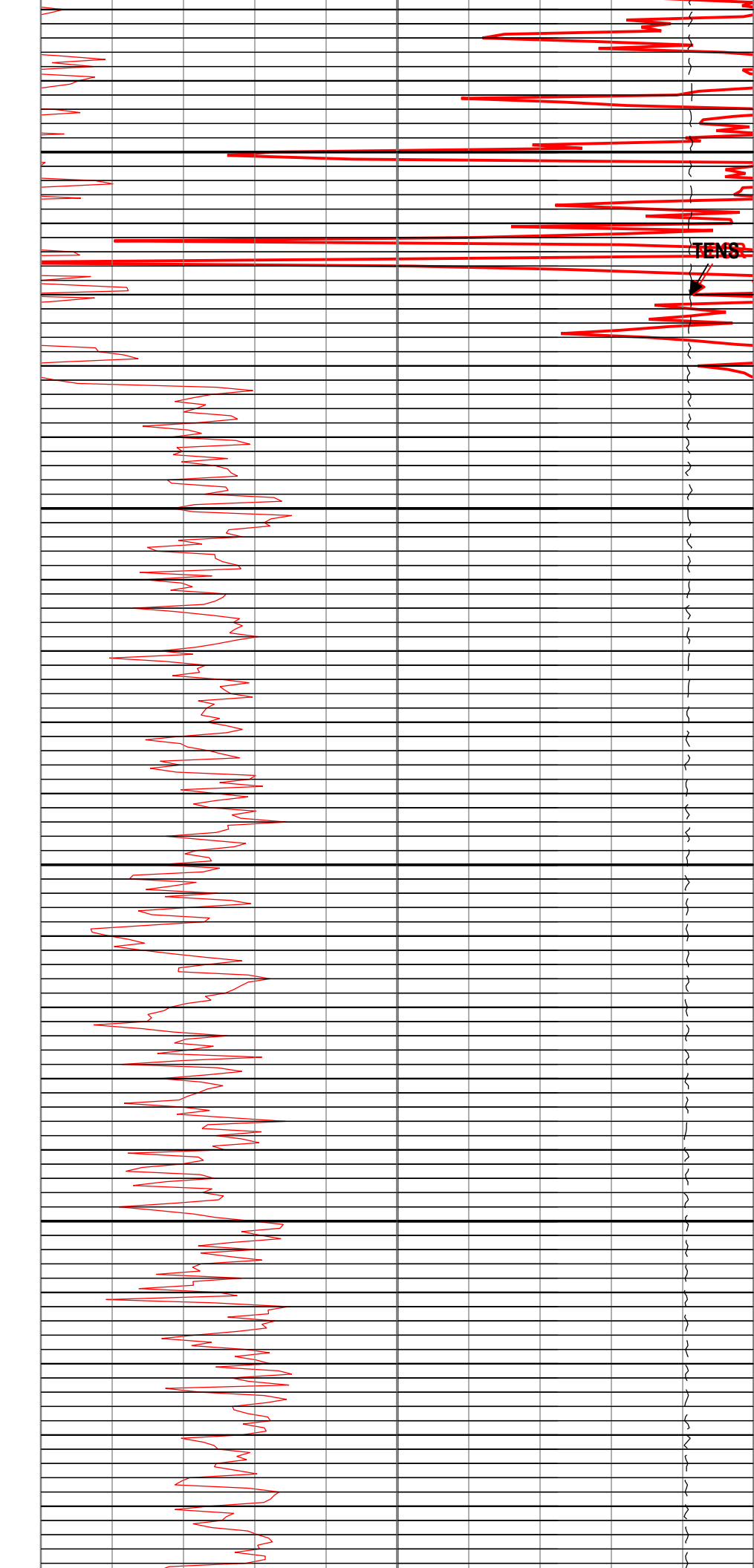
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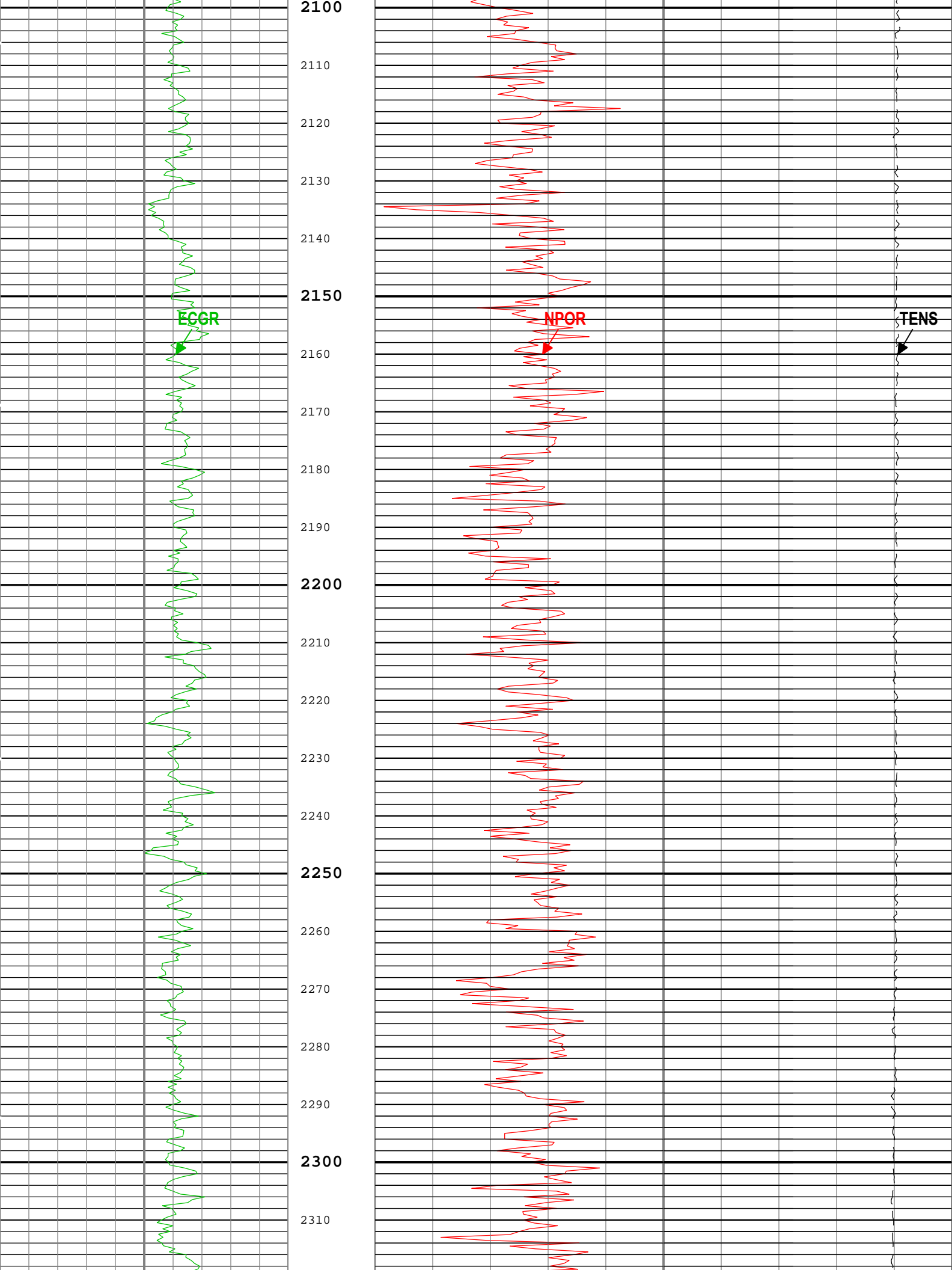


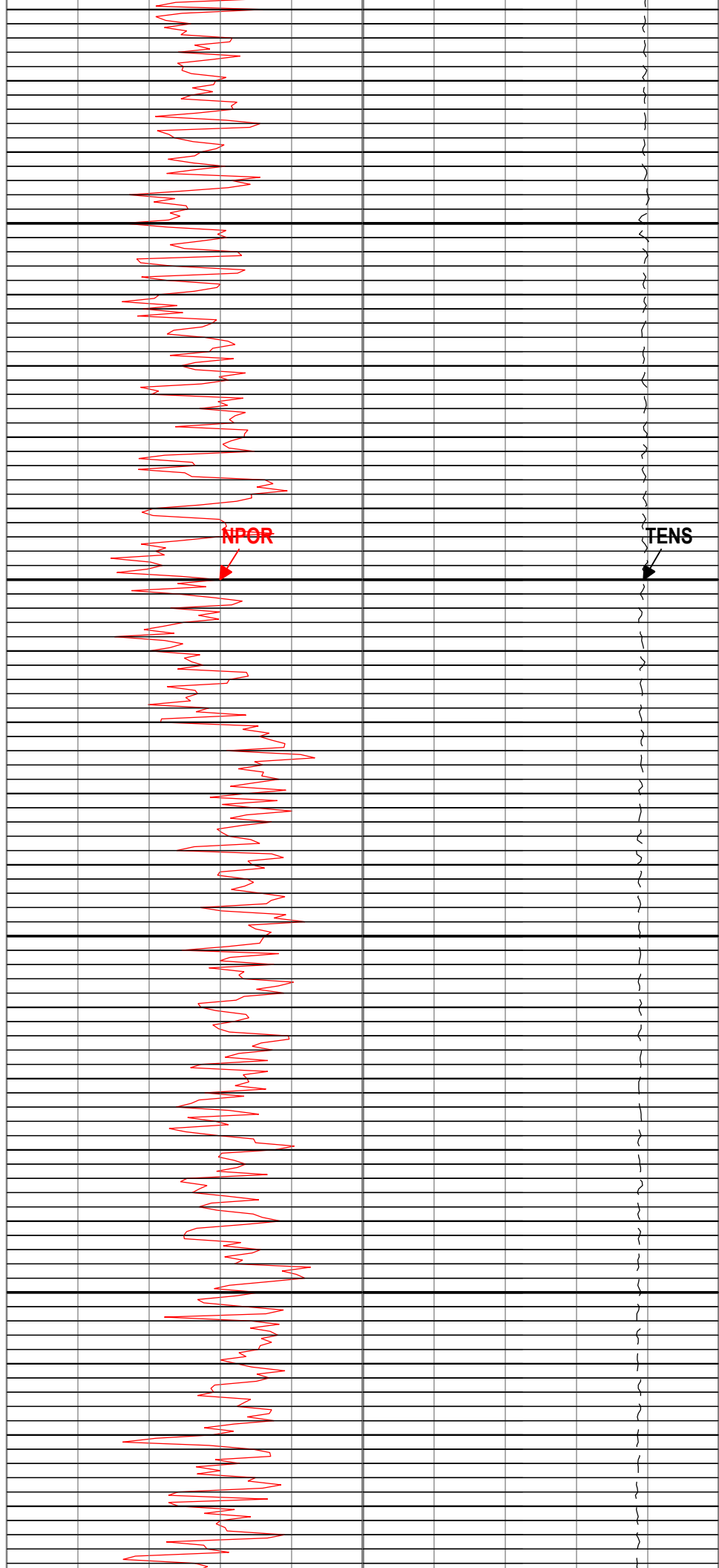
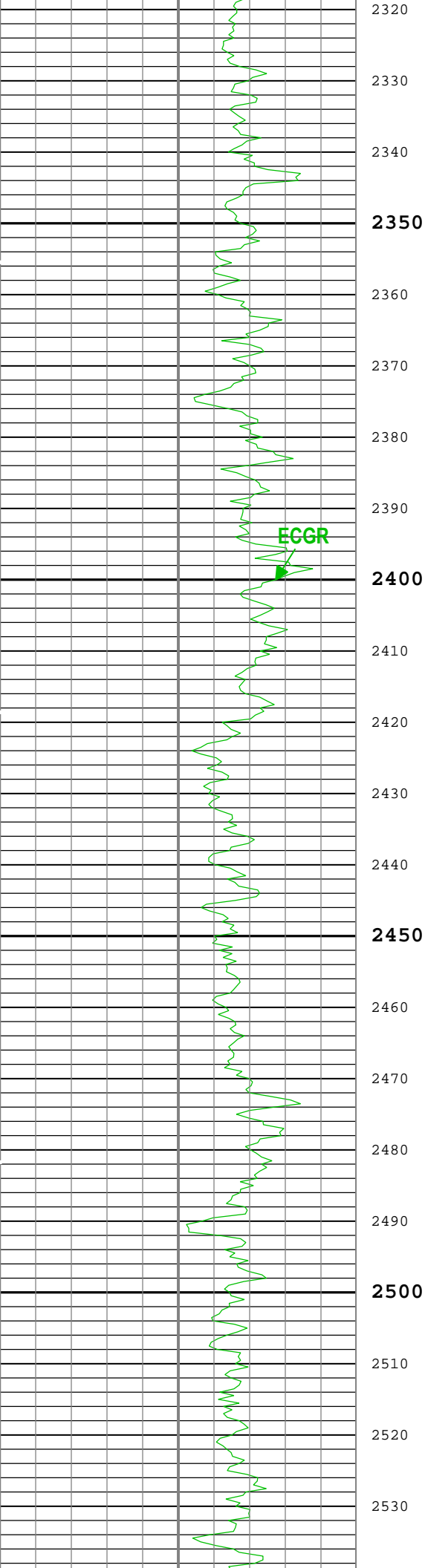




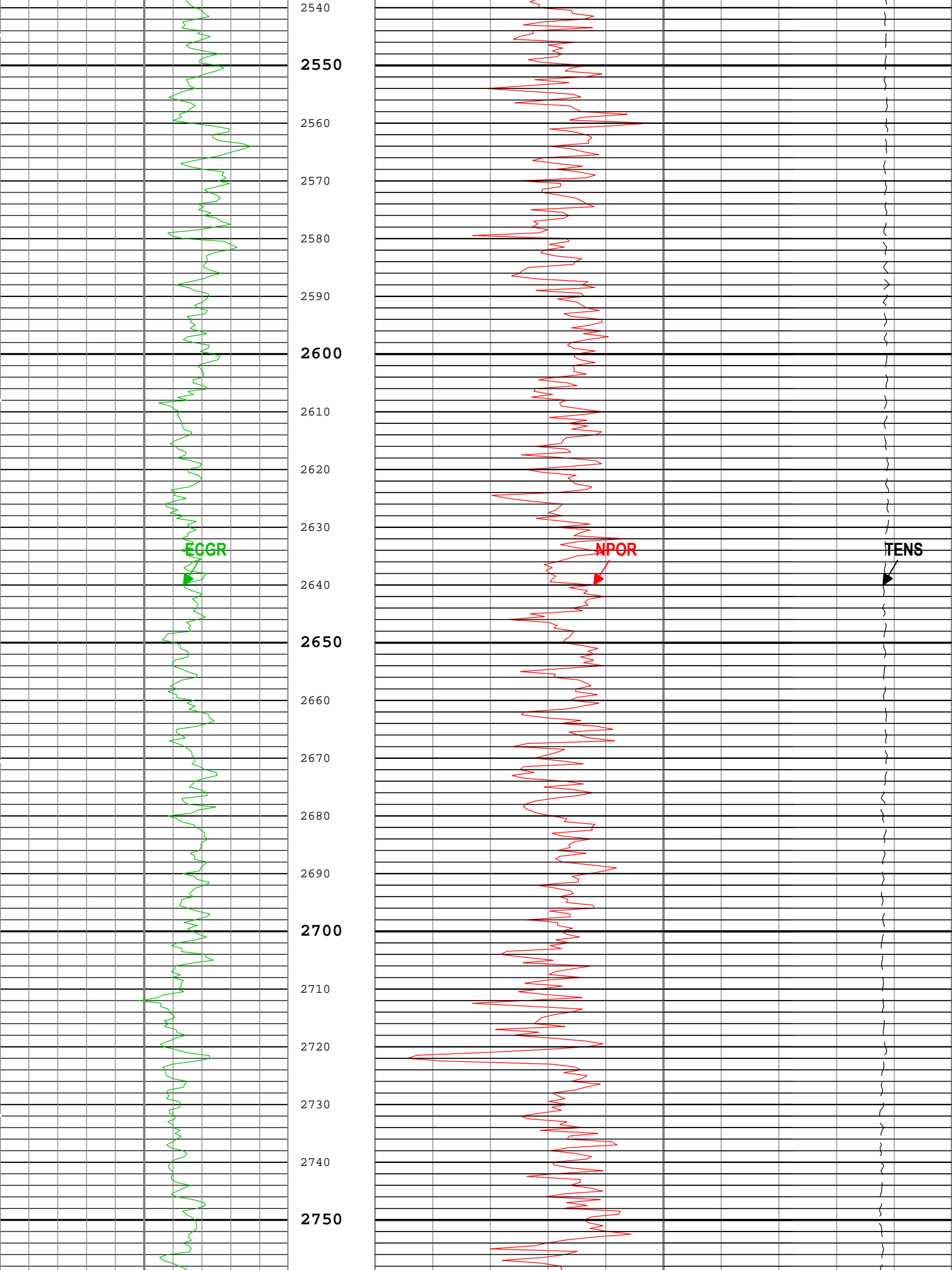
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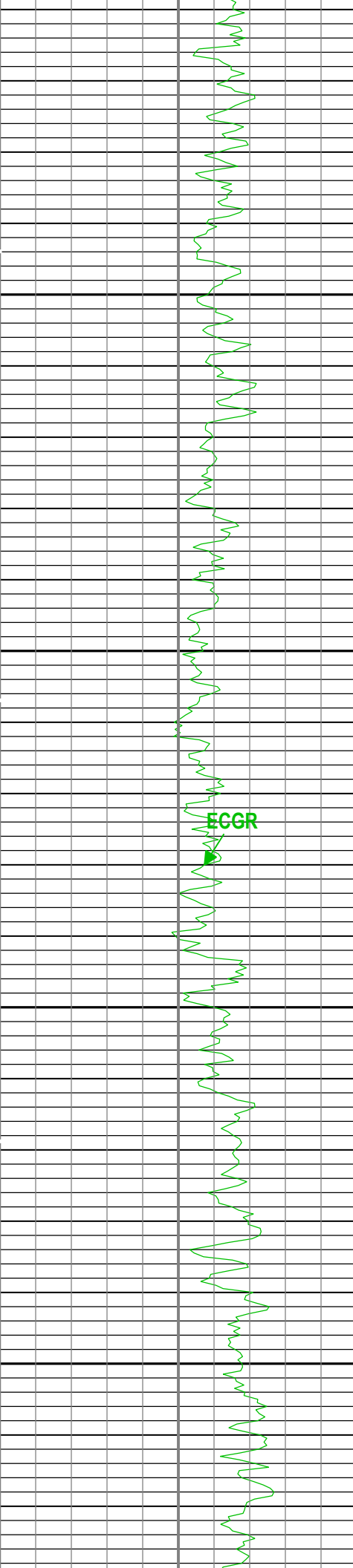




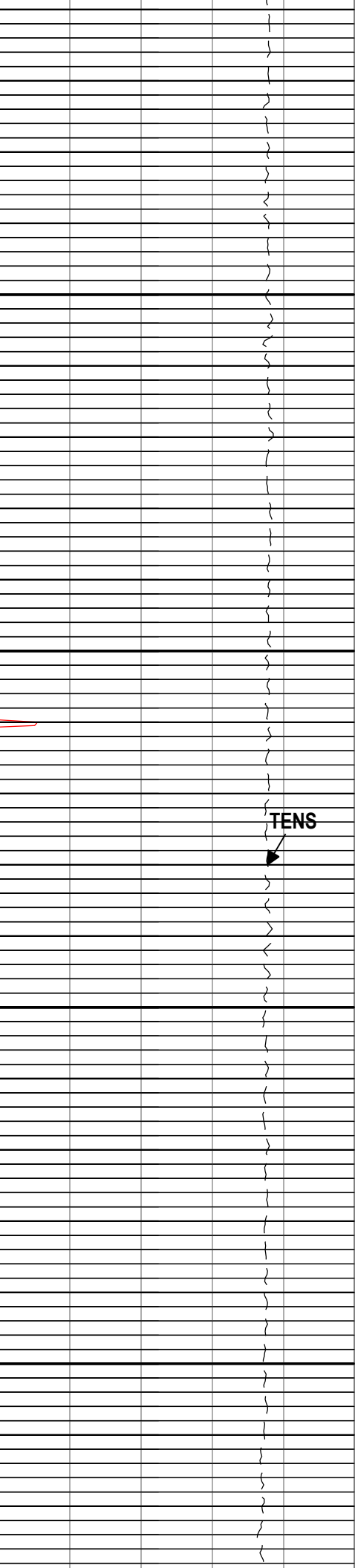
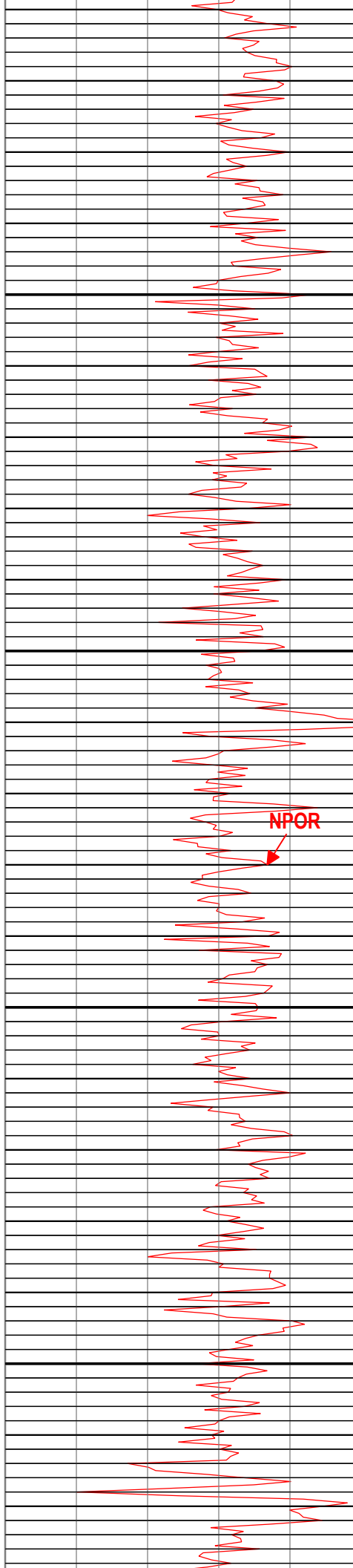








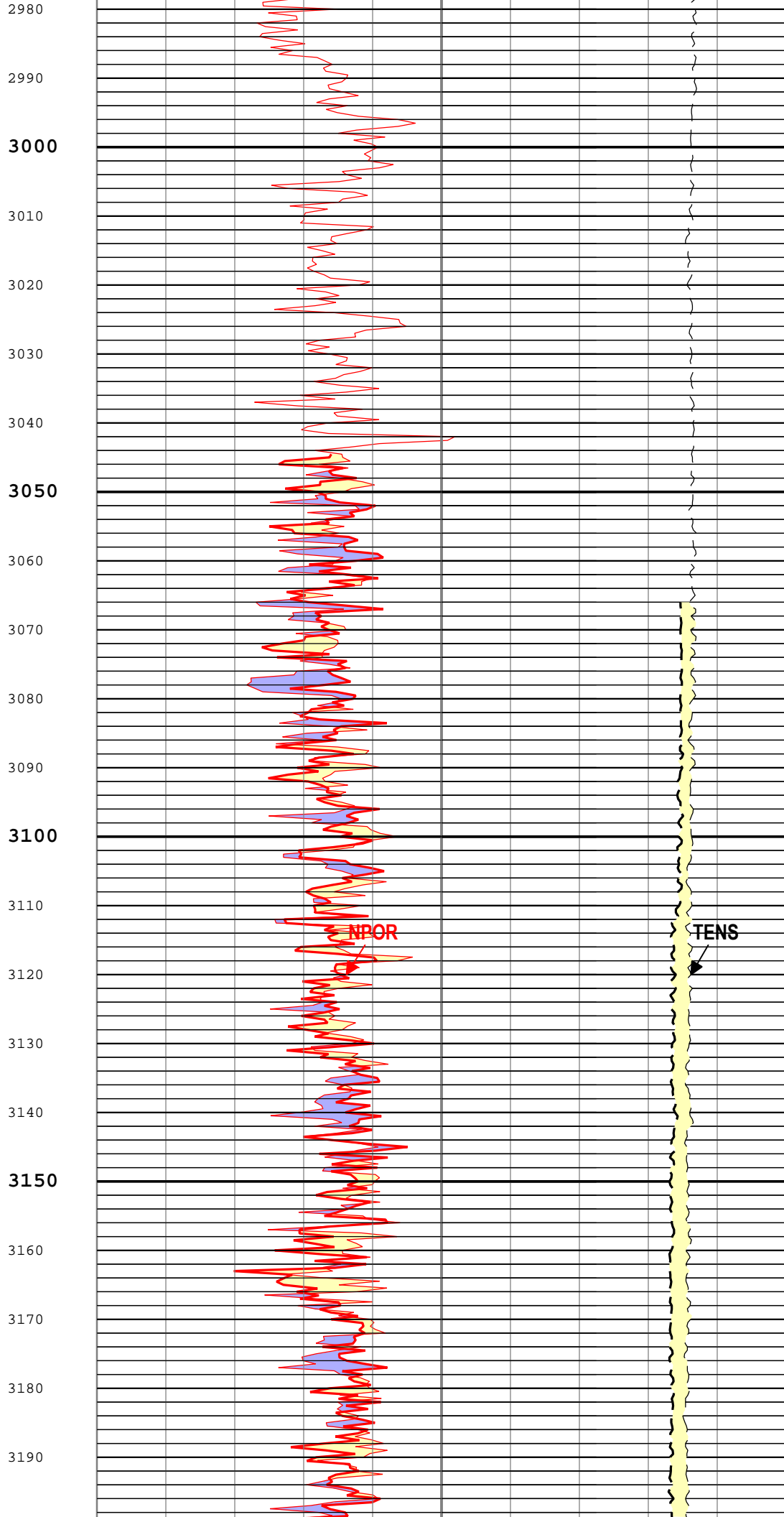
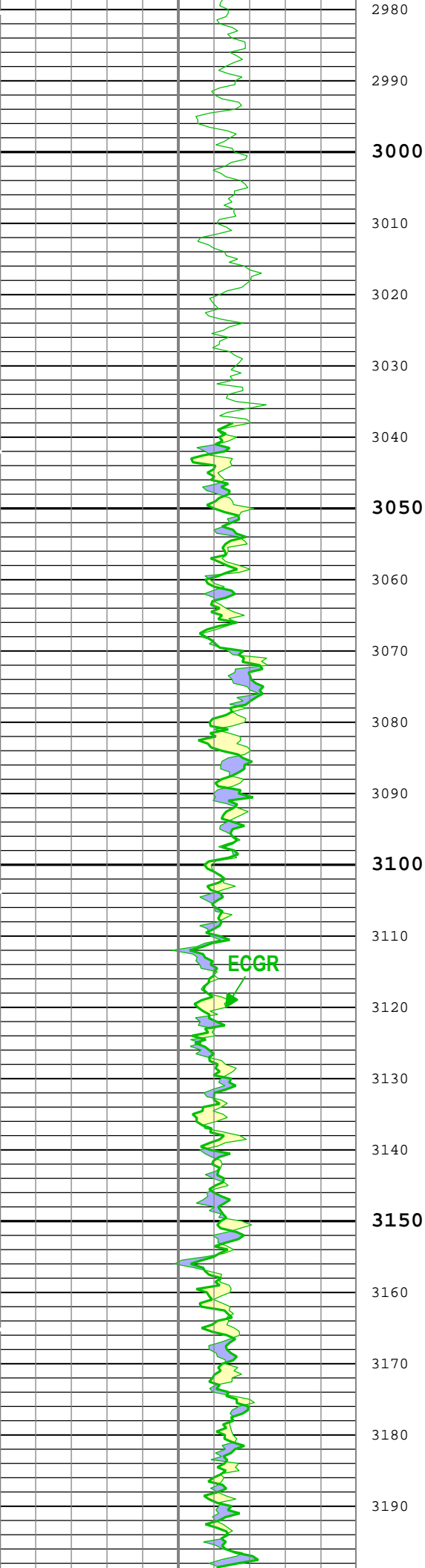
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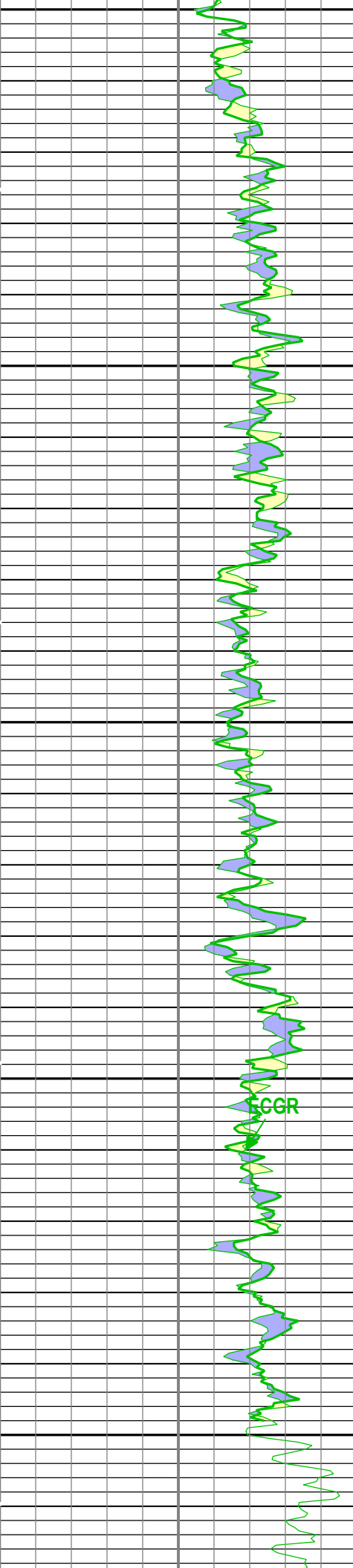


ECGR

NPOR

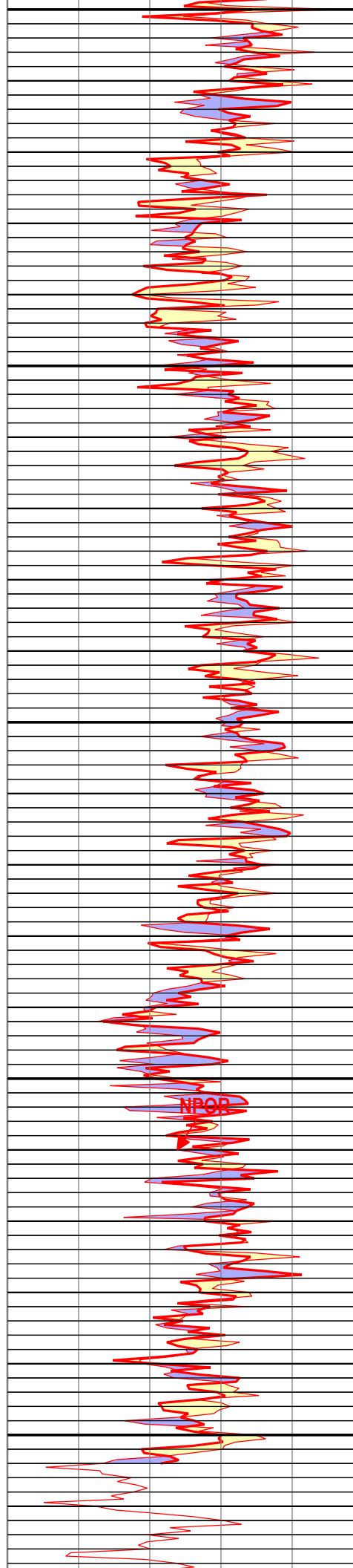
TENS



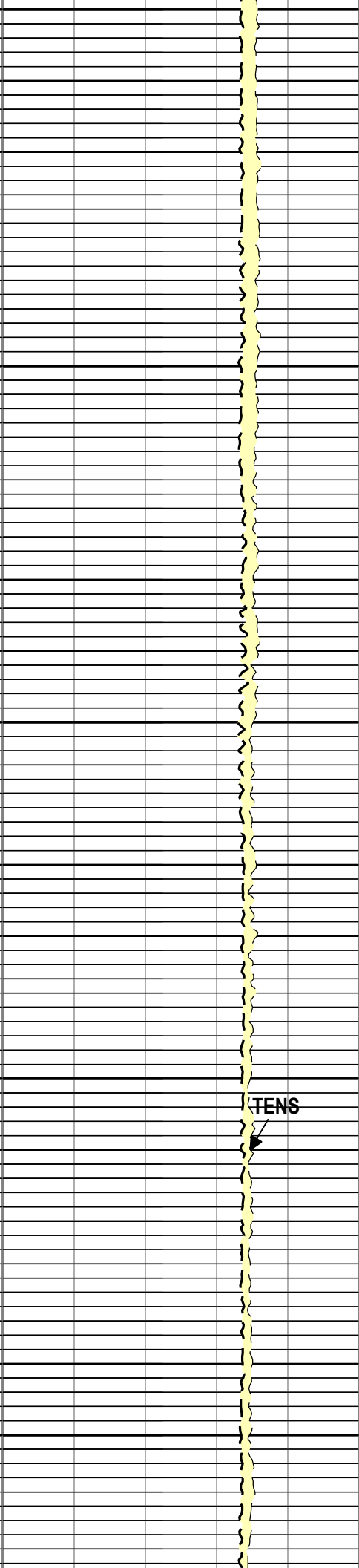


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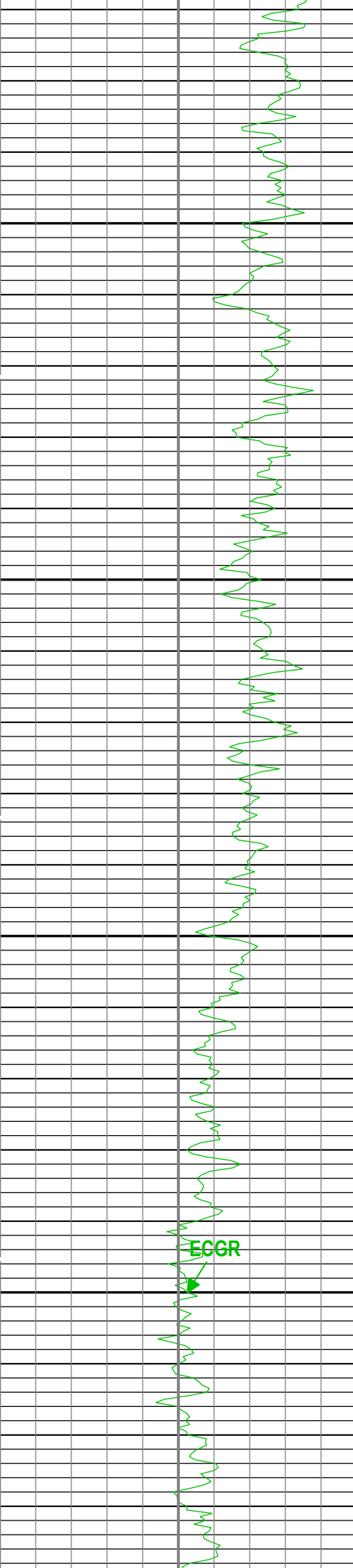
ECGR



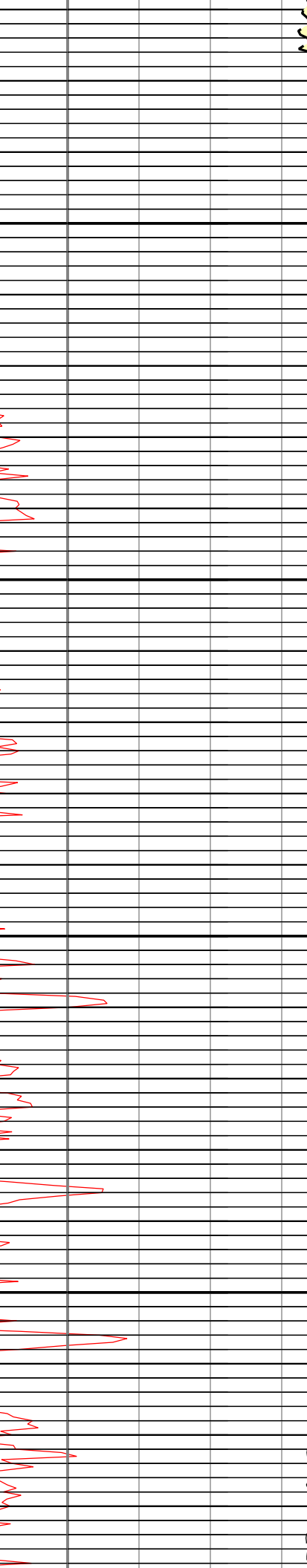
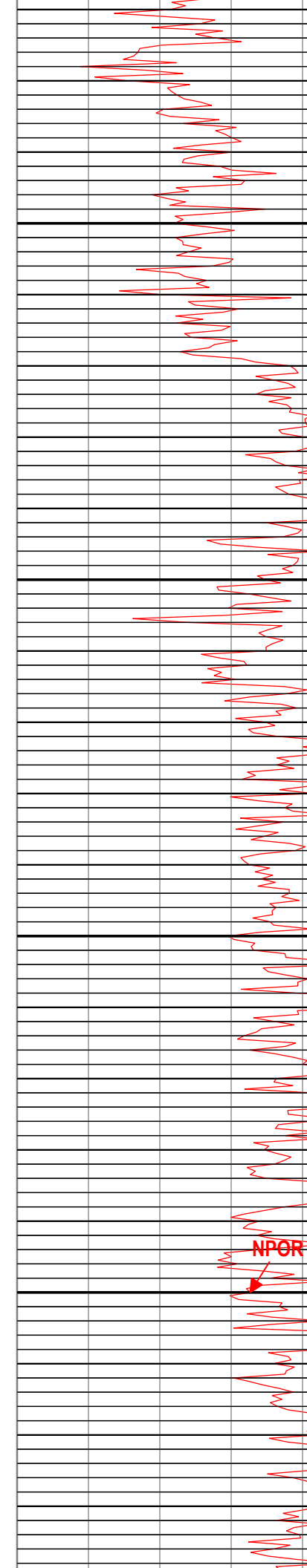
NPOR



TENS



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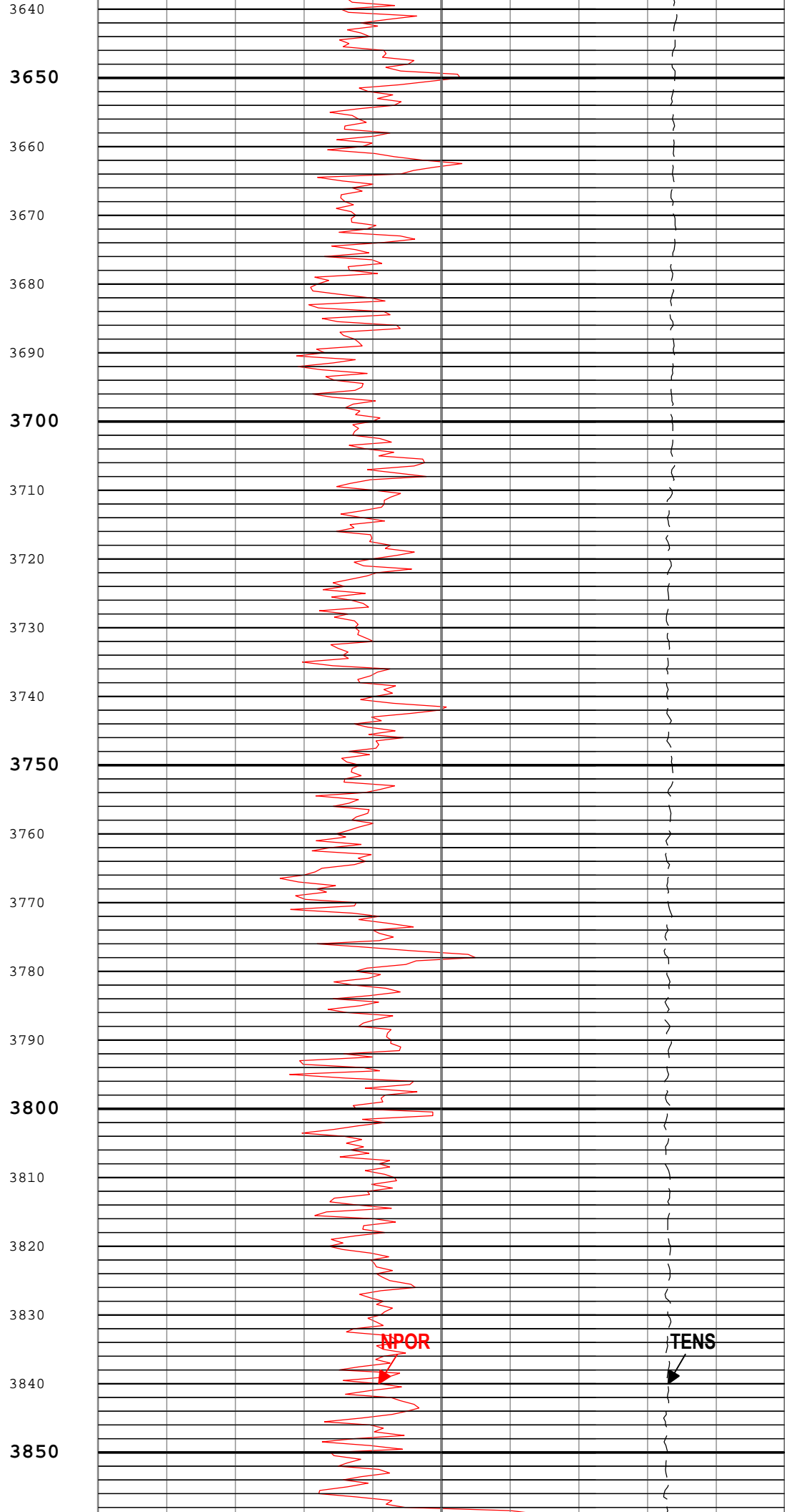
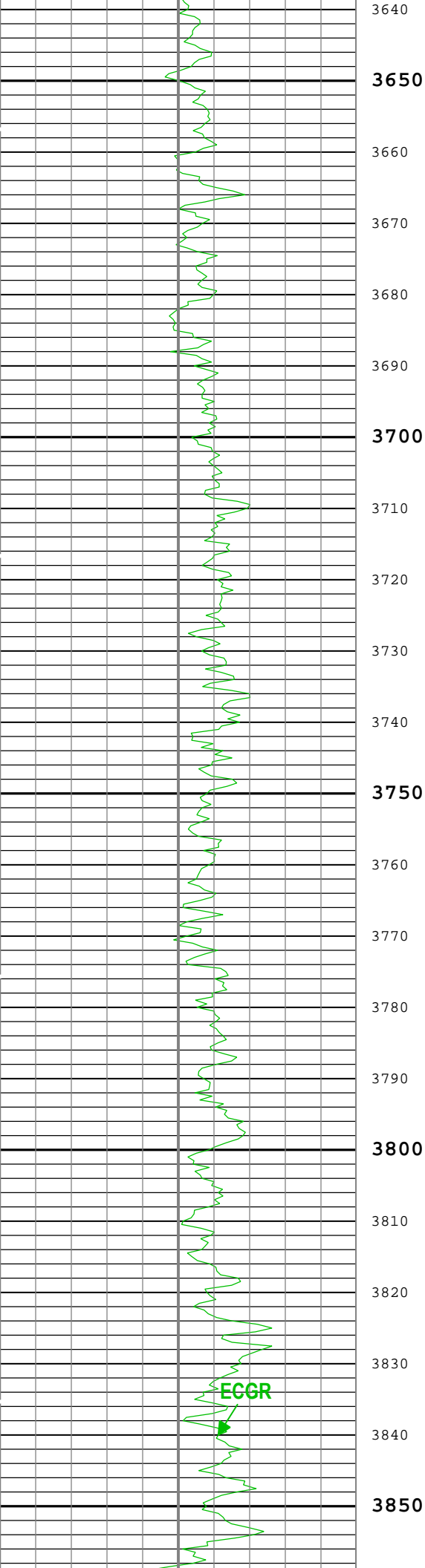


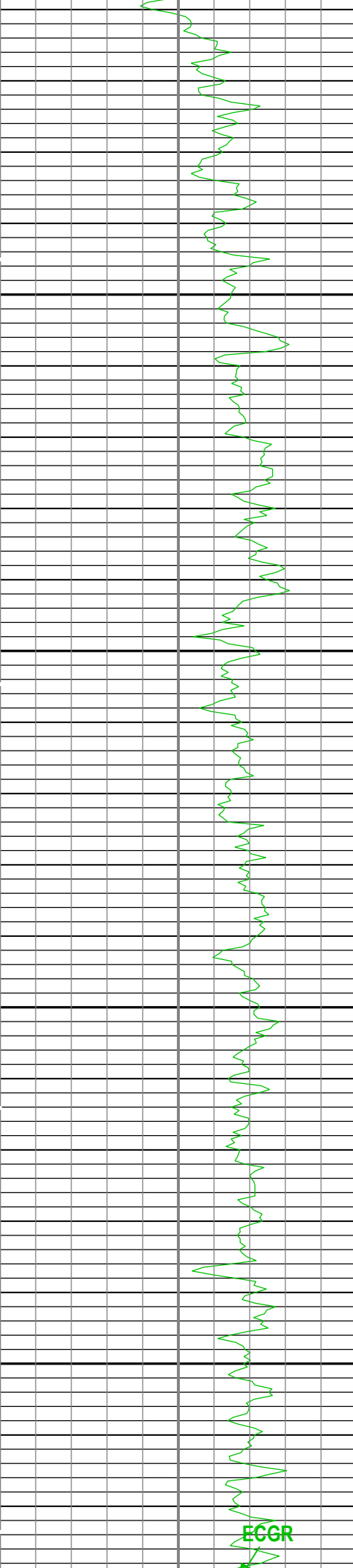
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ECGR

NPOR

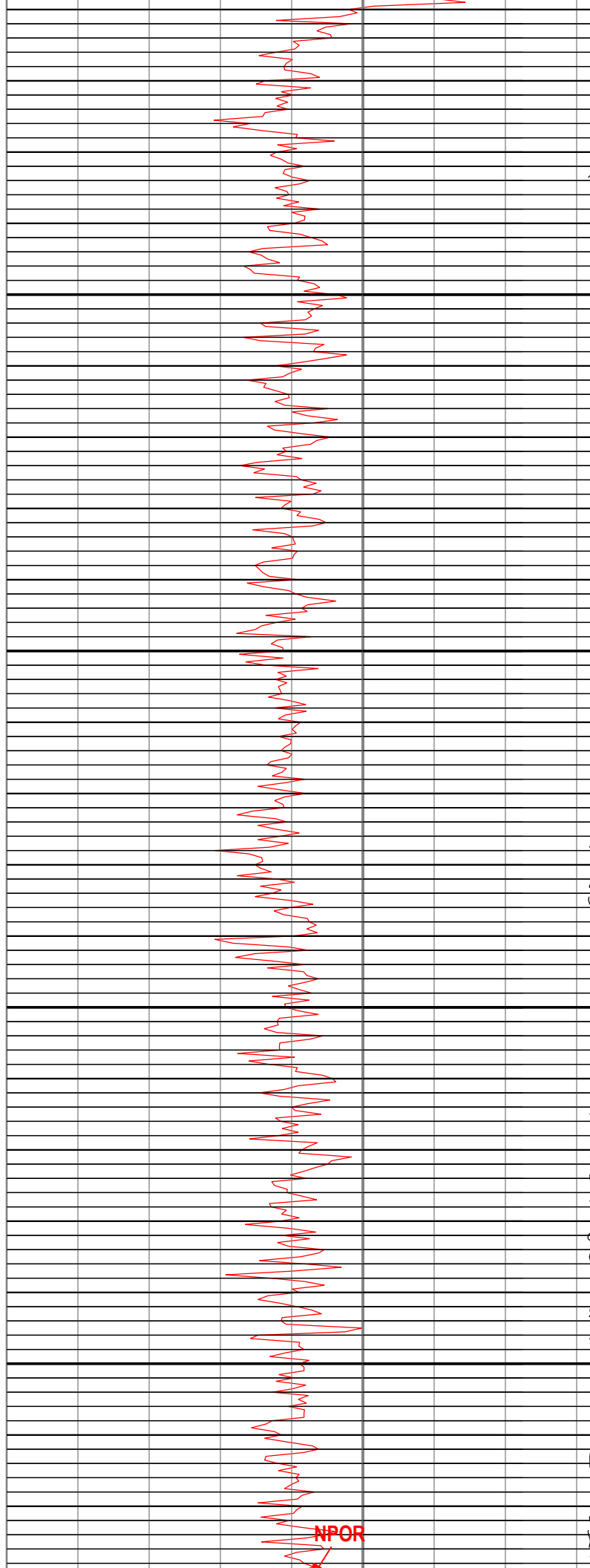
TENS





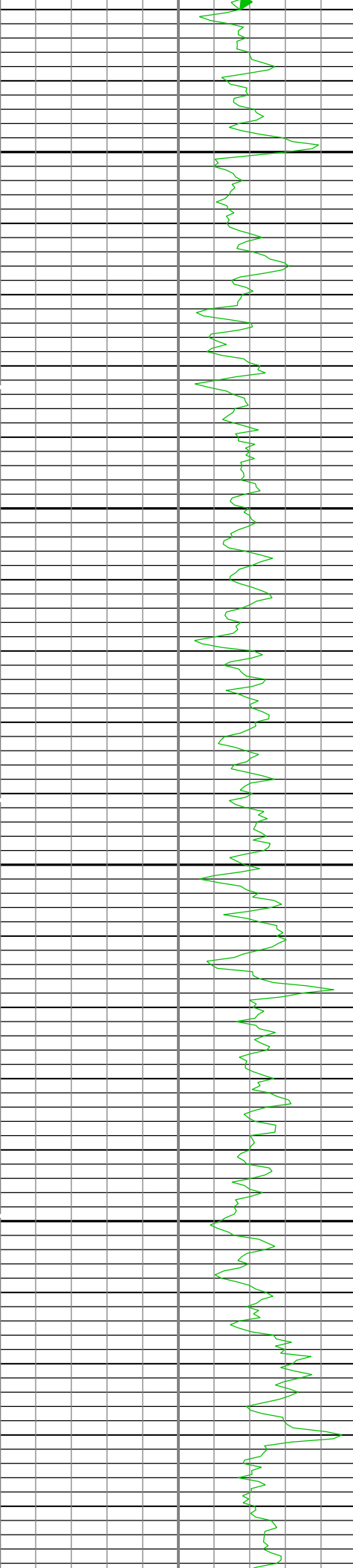
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ECGR

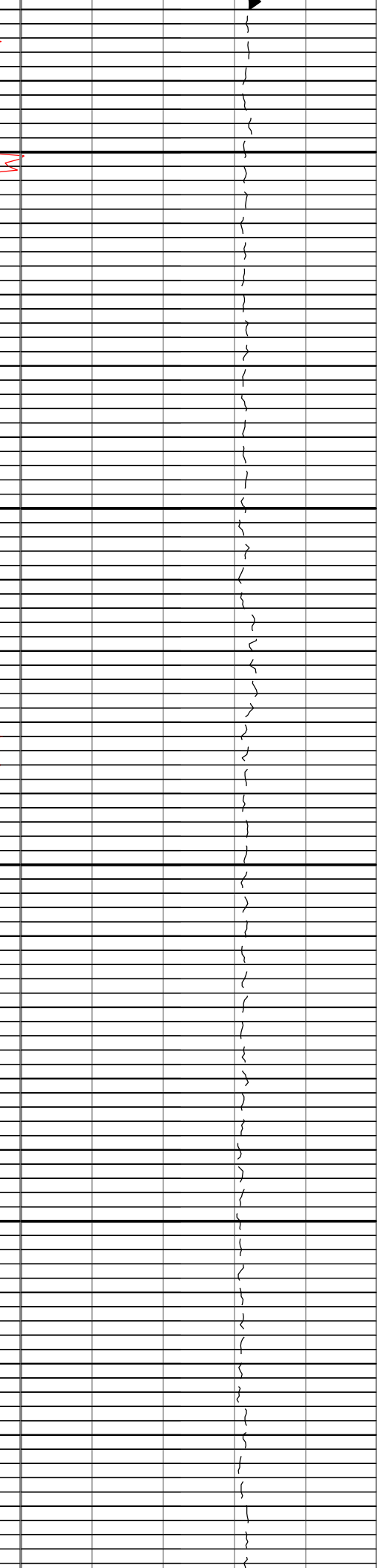


NPOR

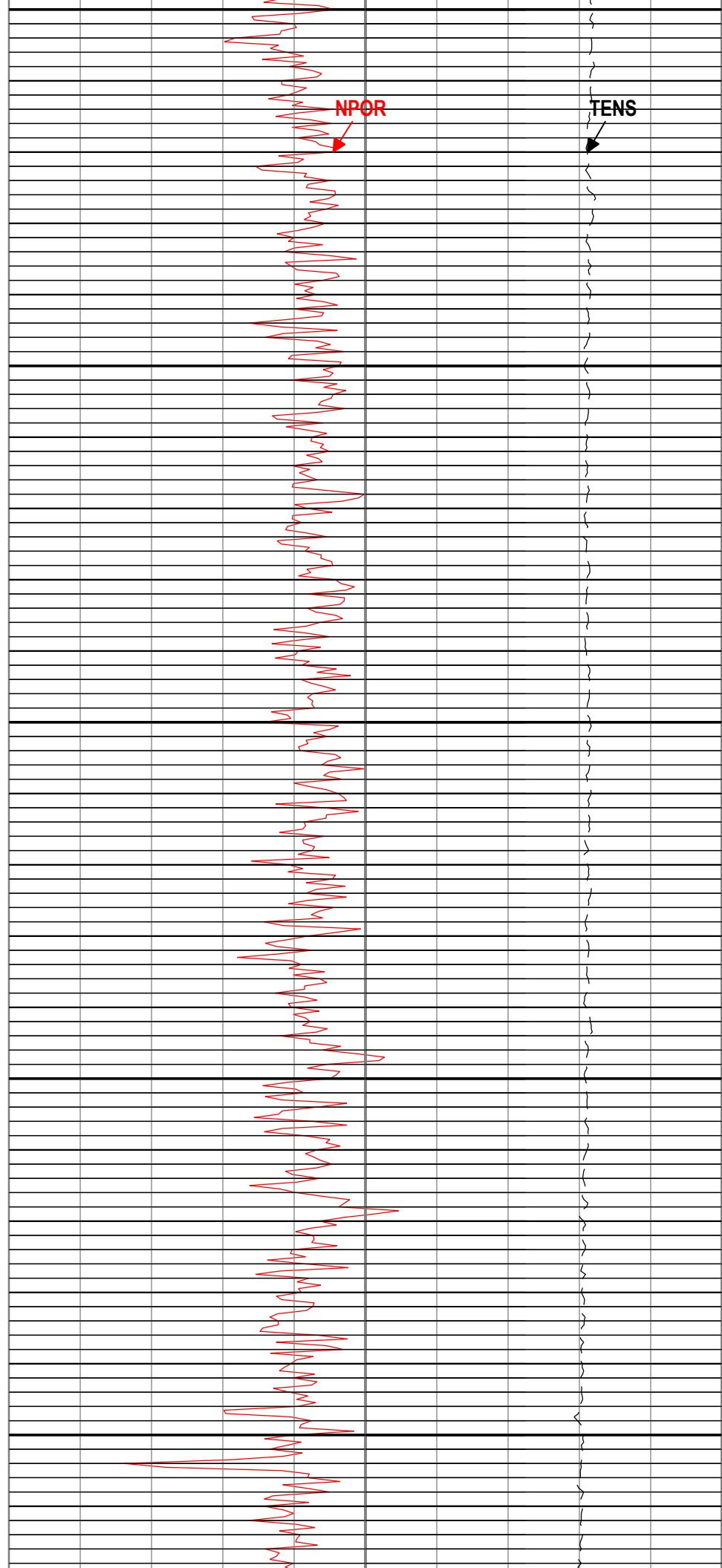
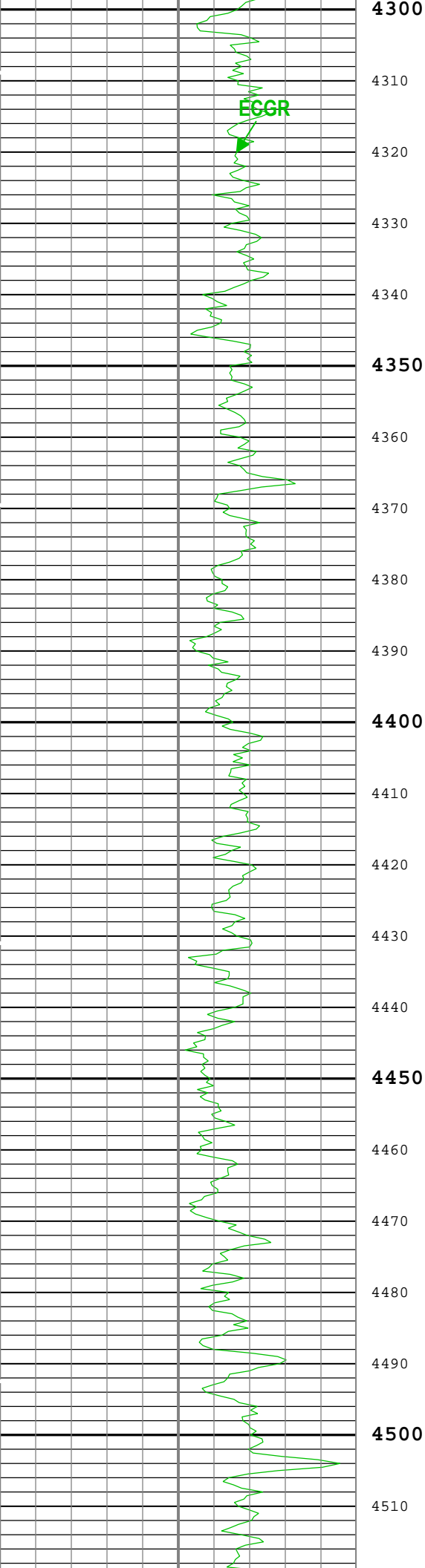
TENS

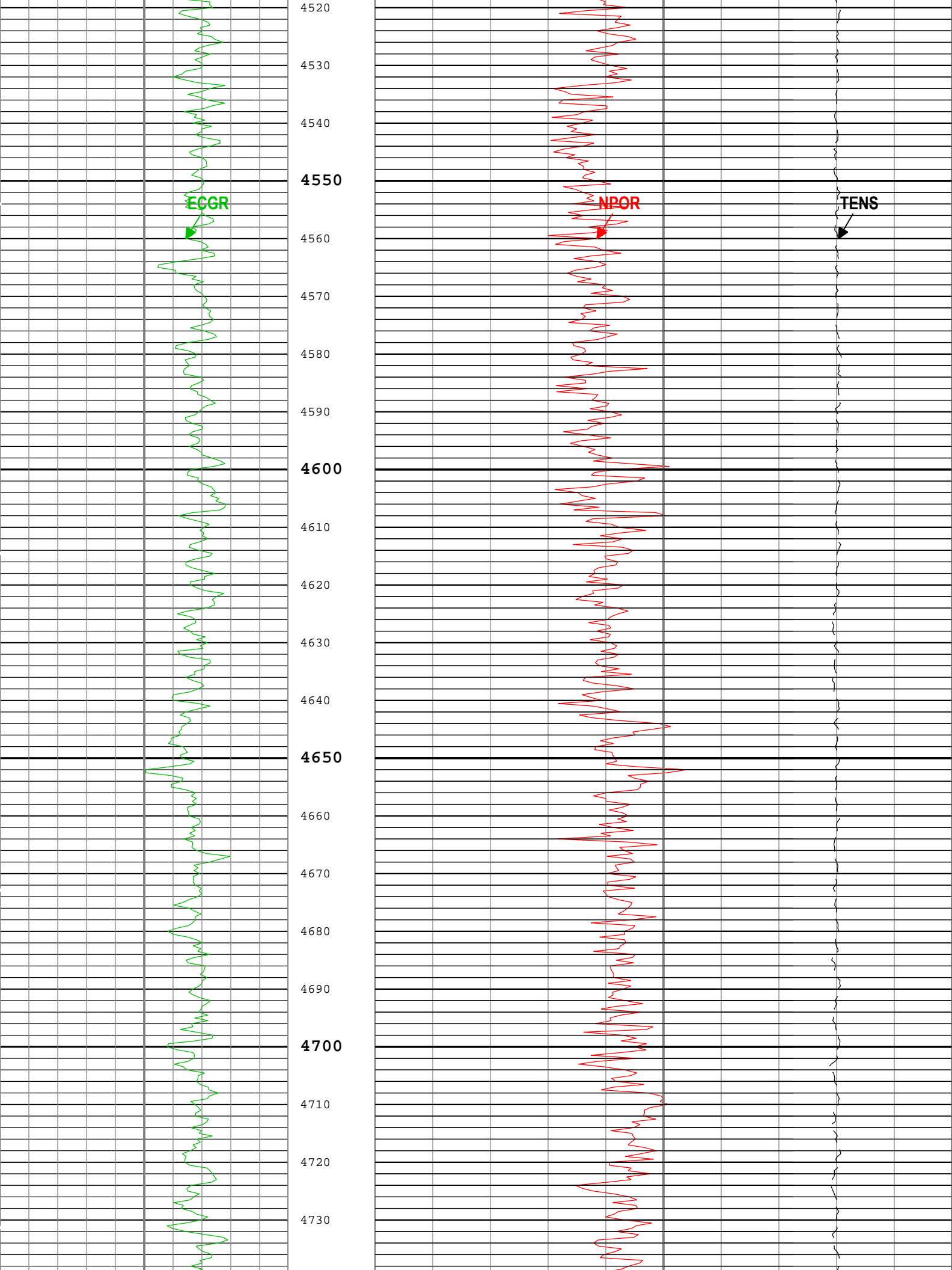


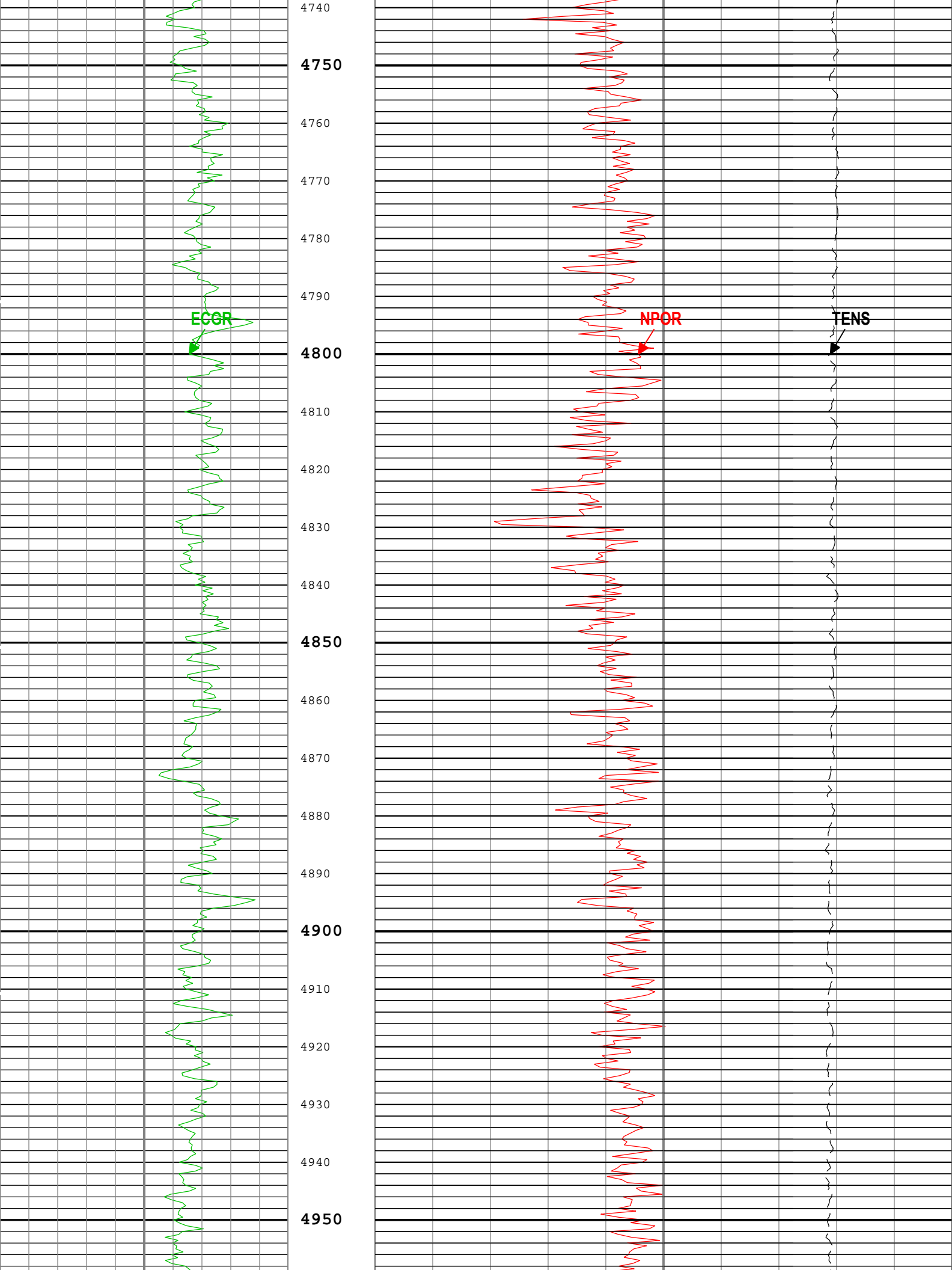
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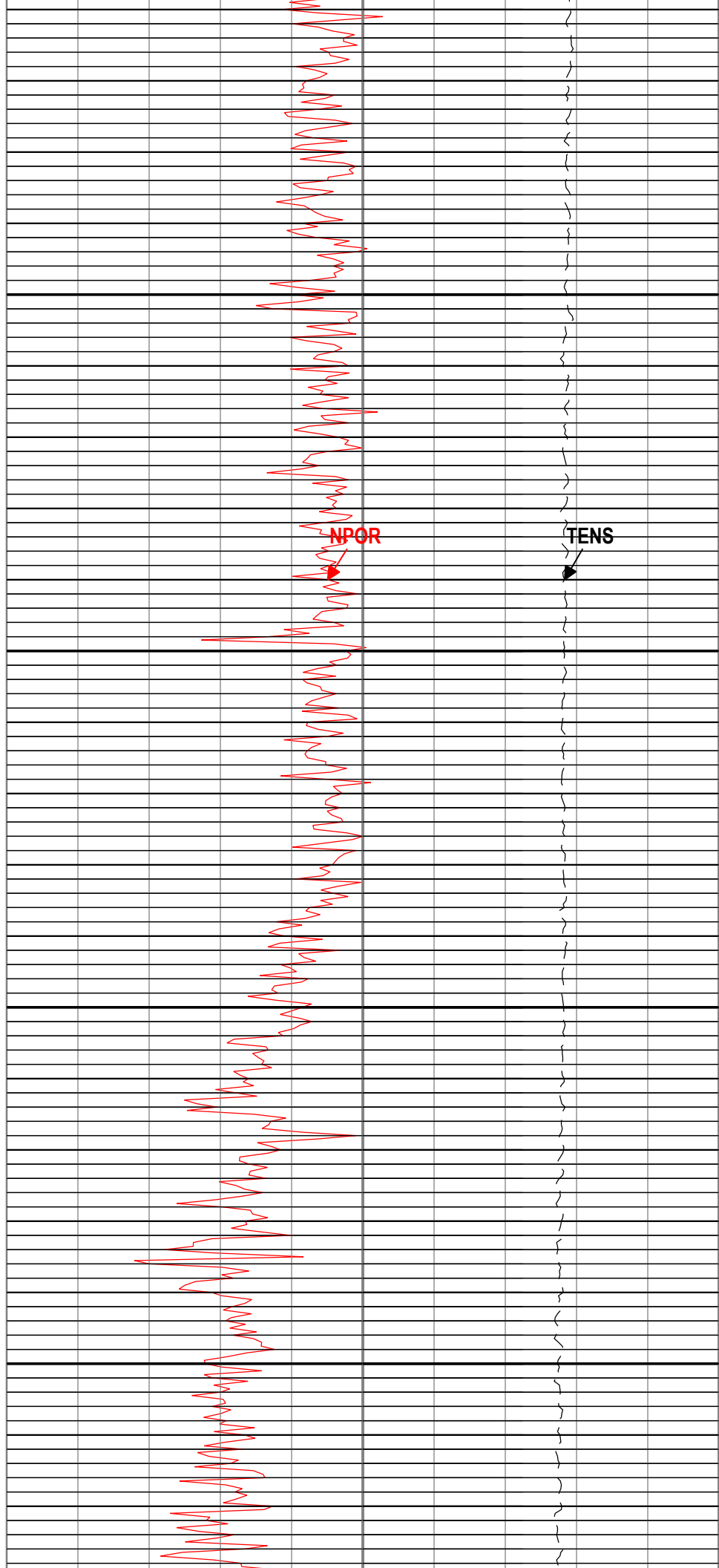
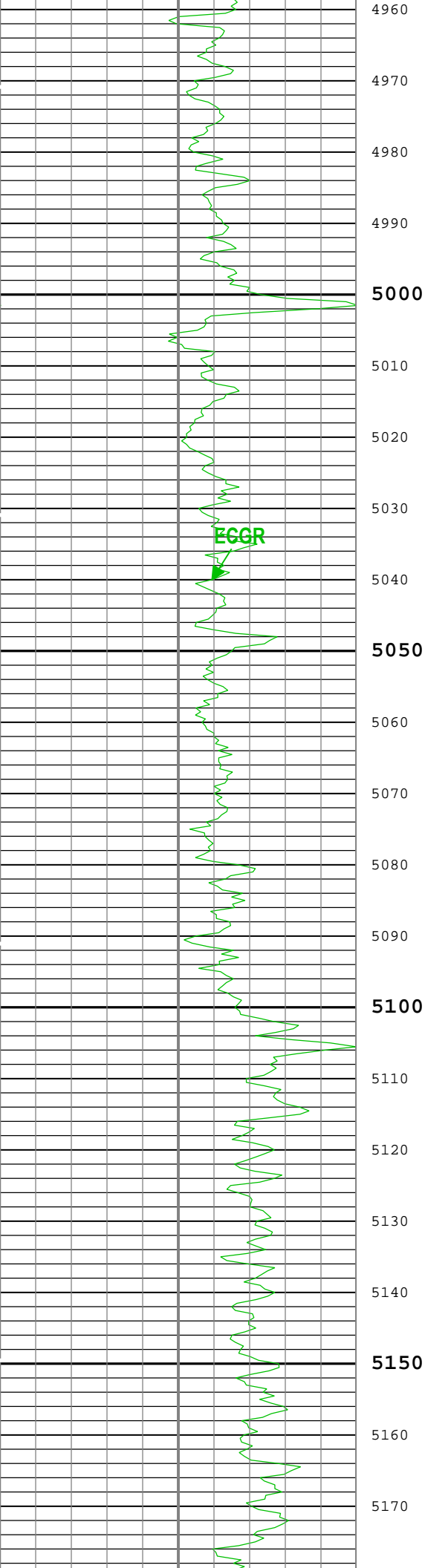


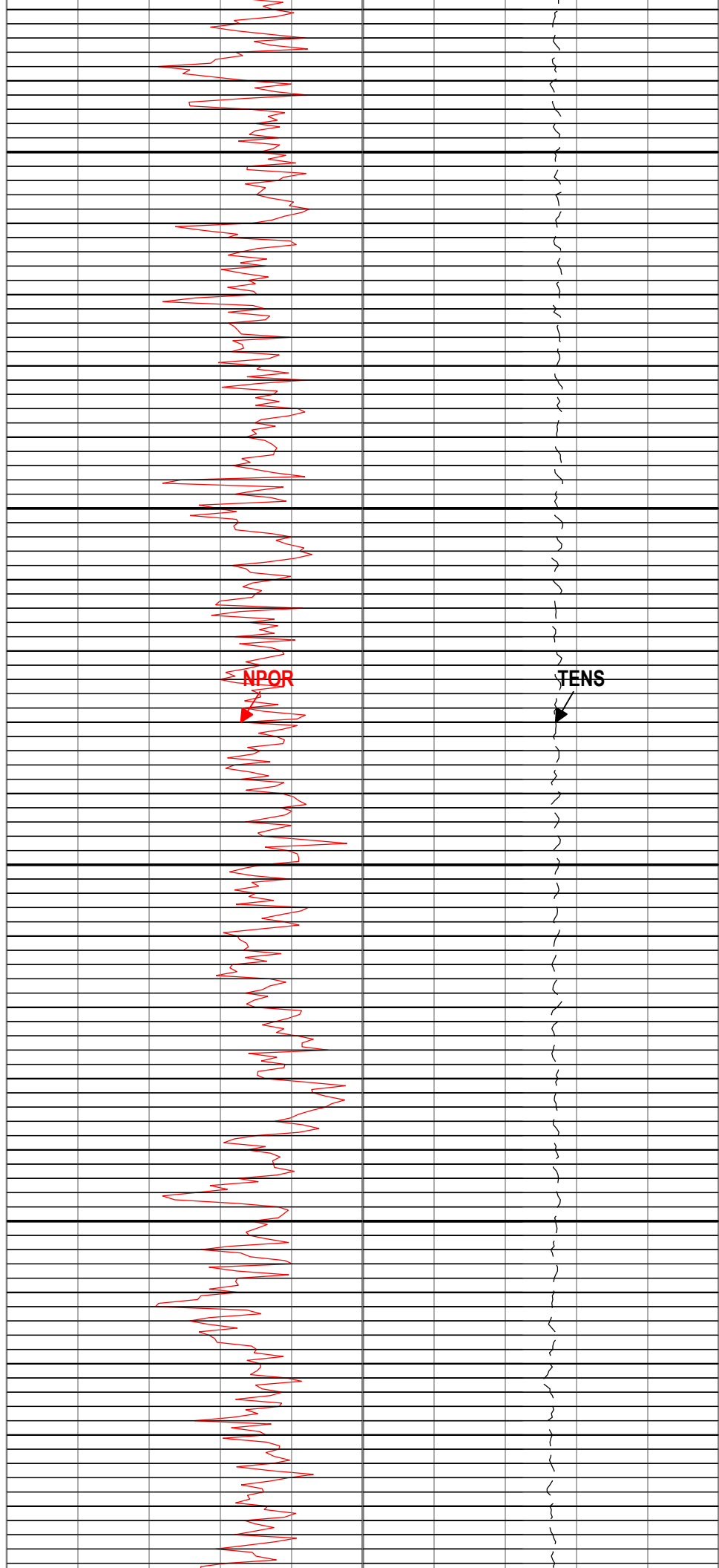
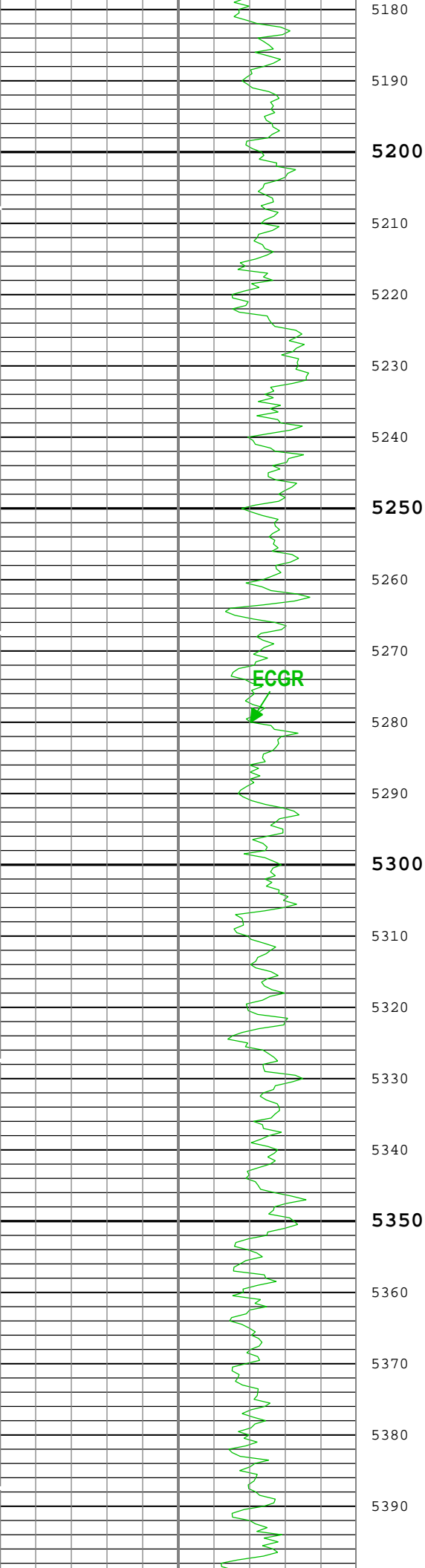


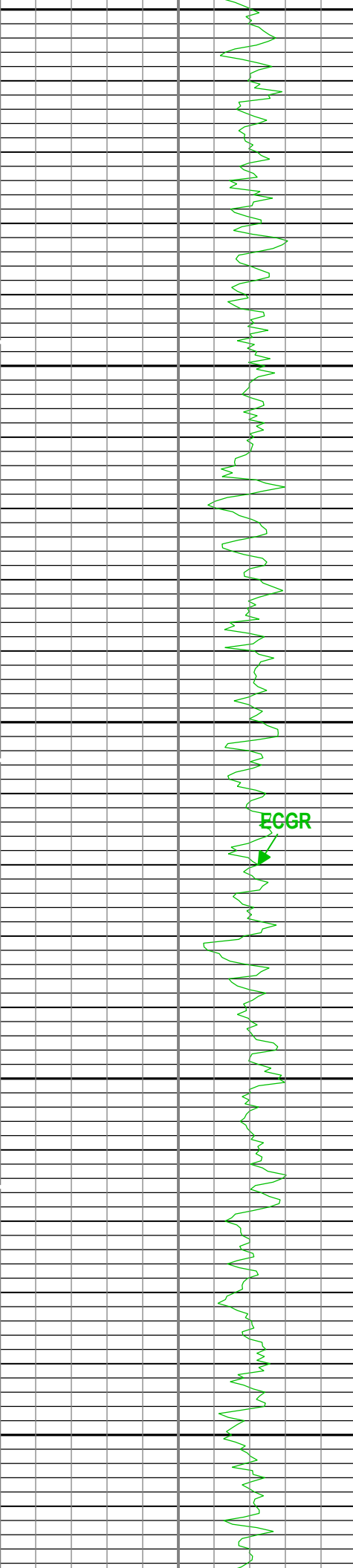






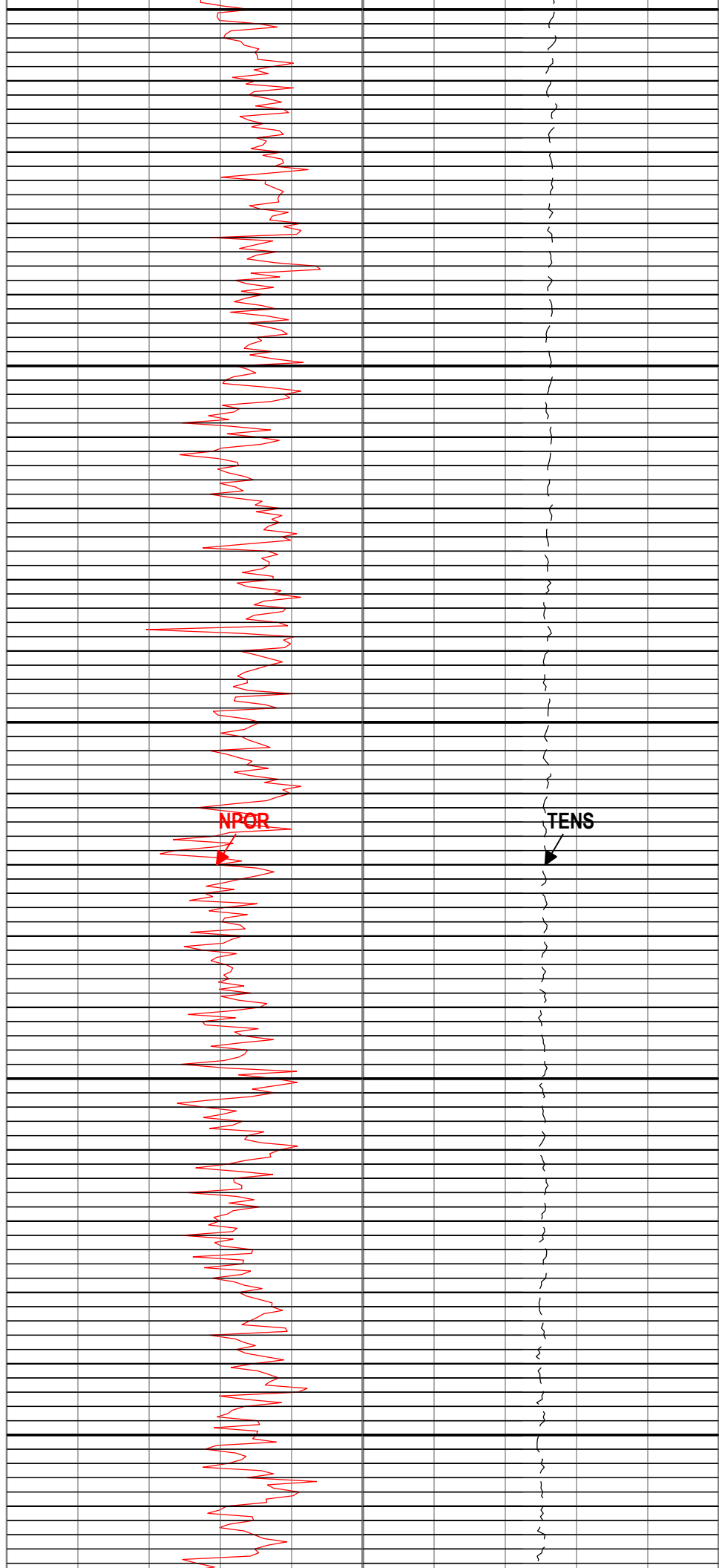






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5610

ECGR

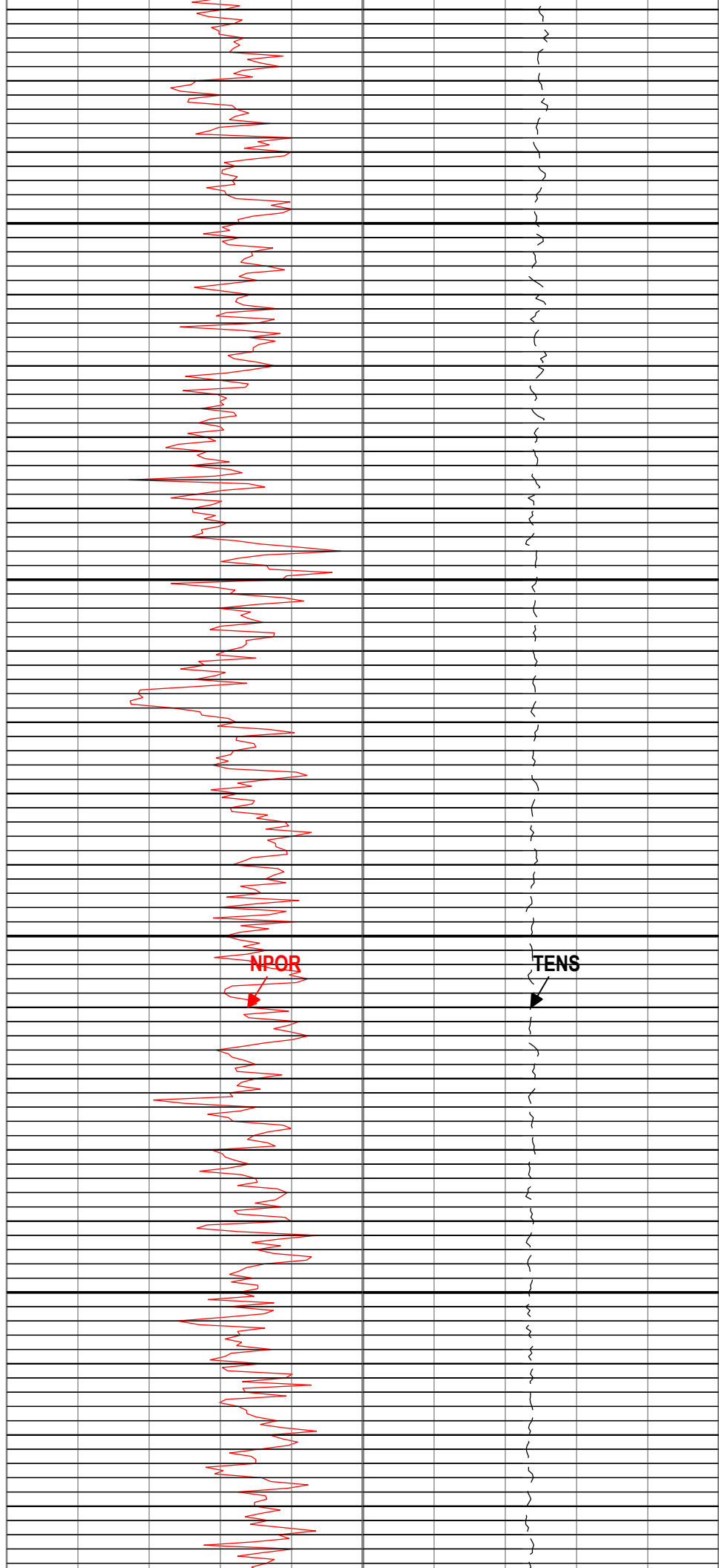
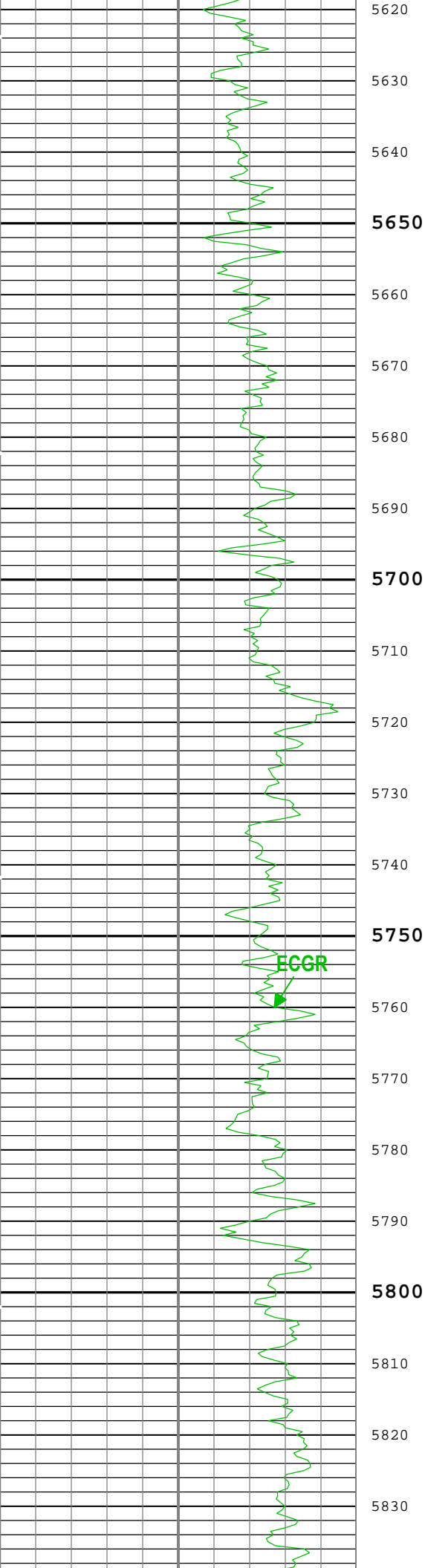


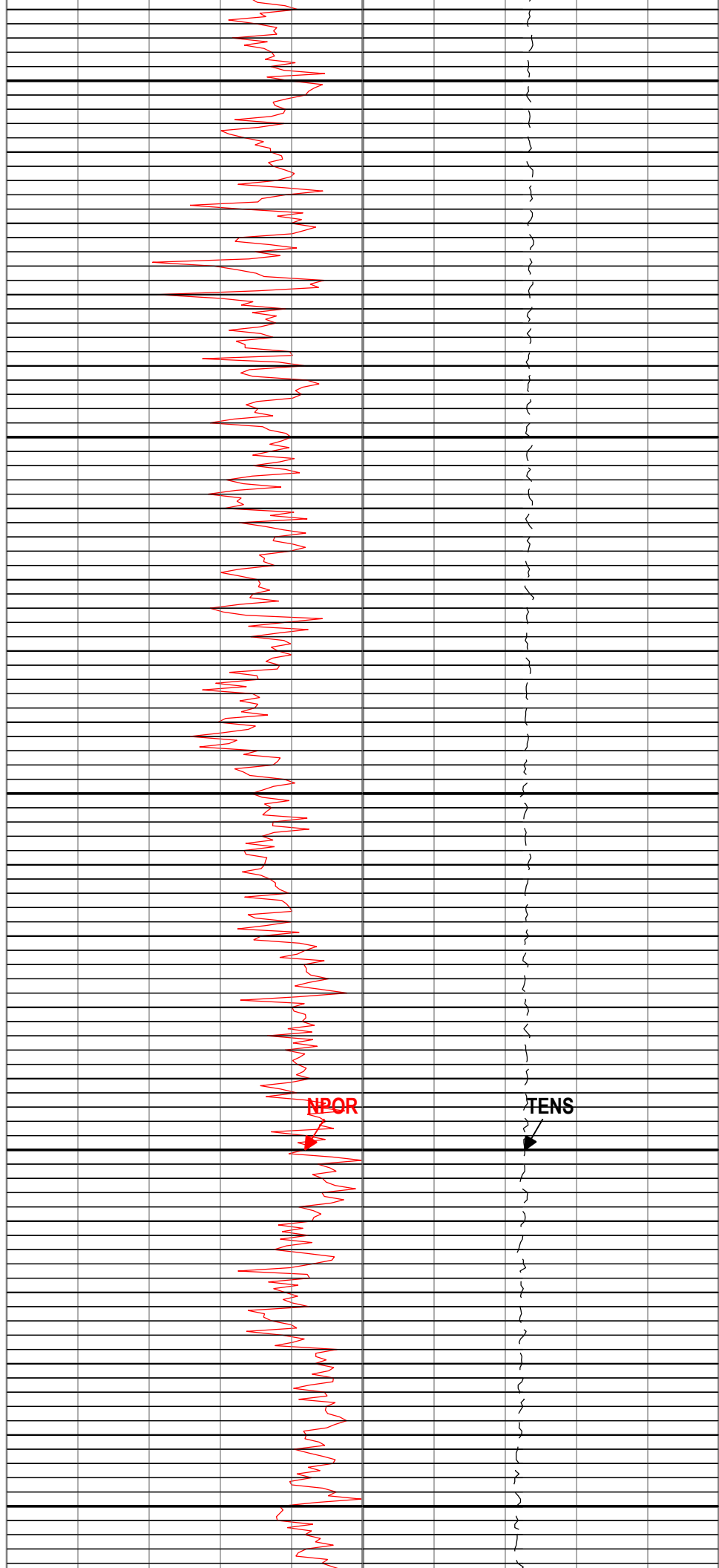
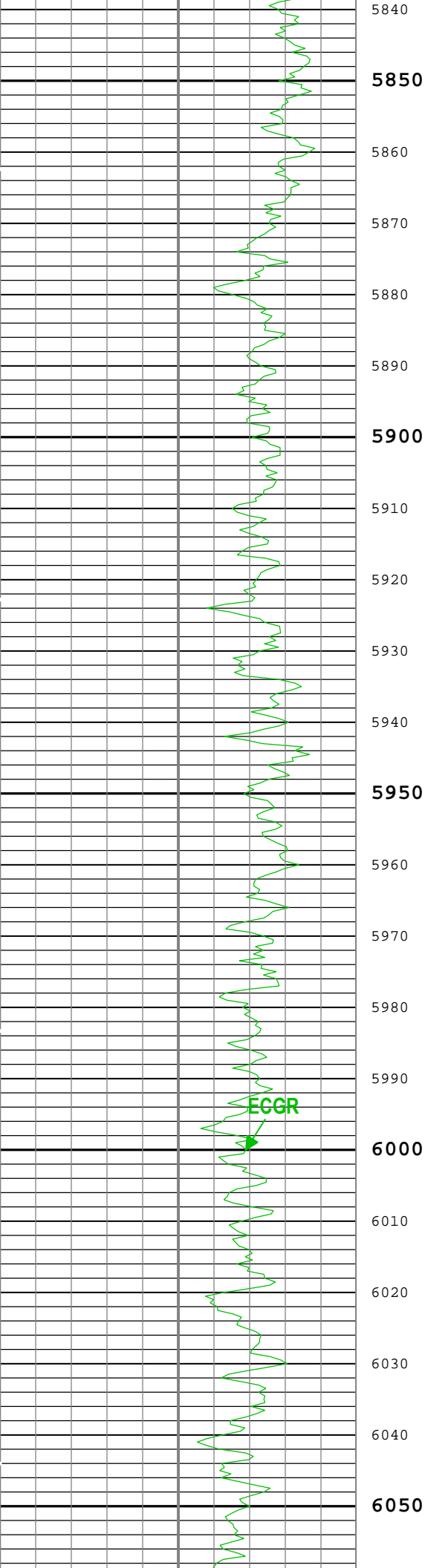
NPOR



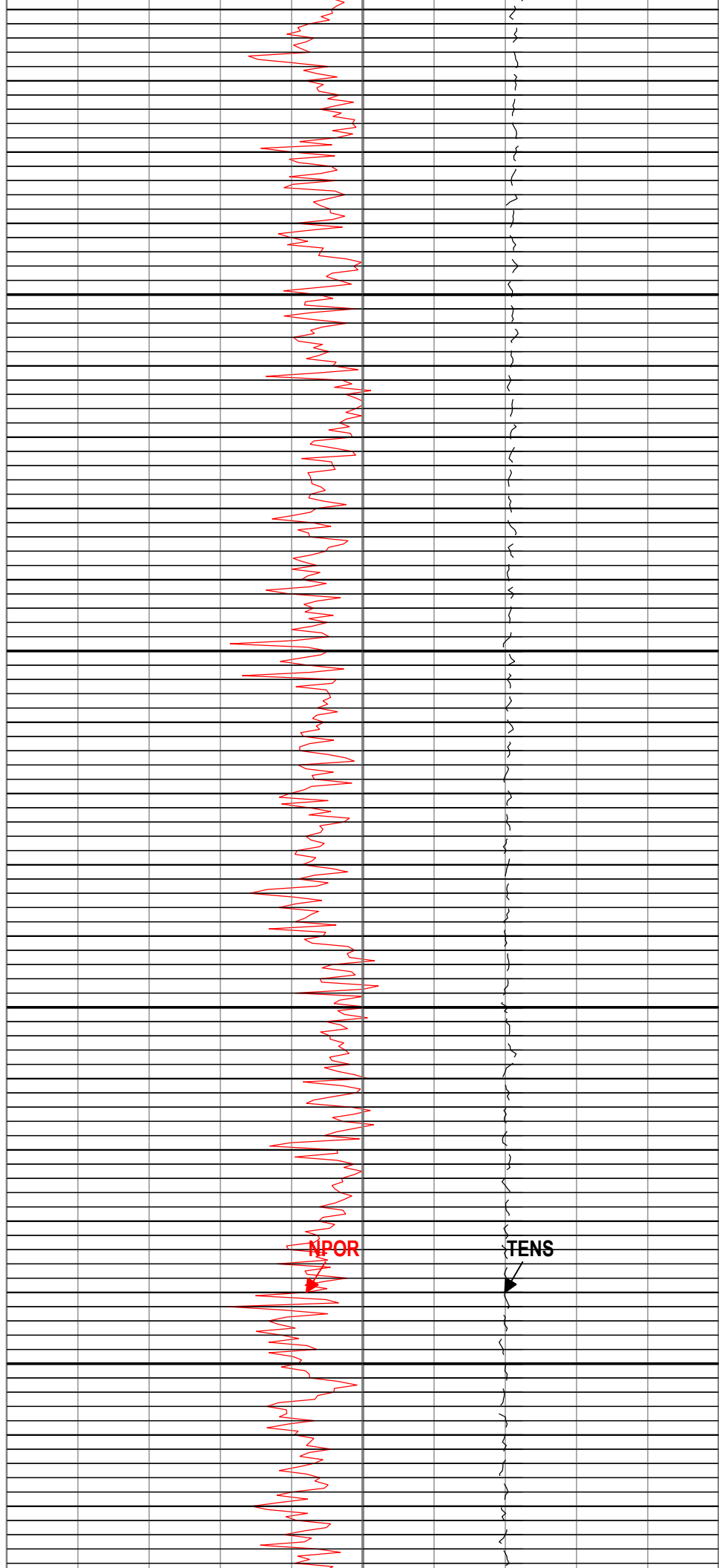
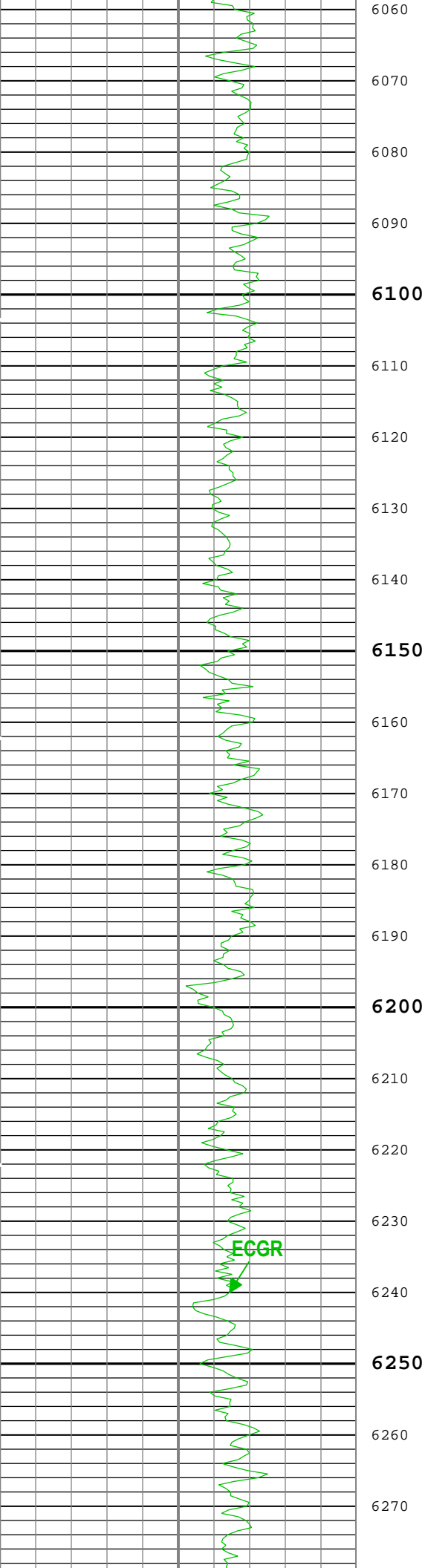
TENS

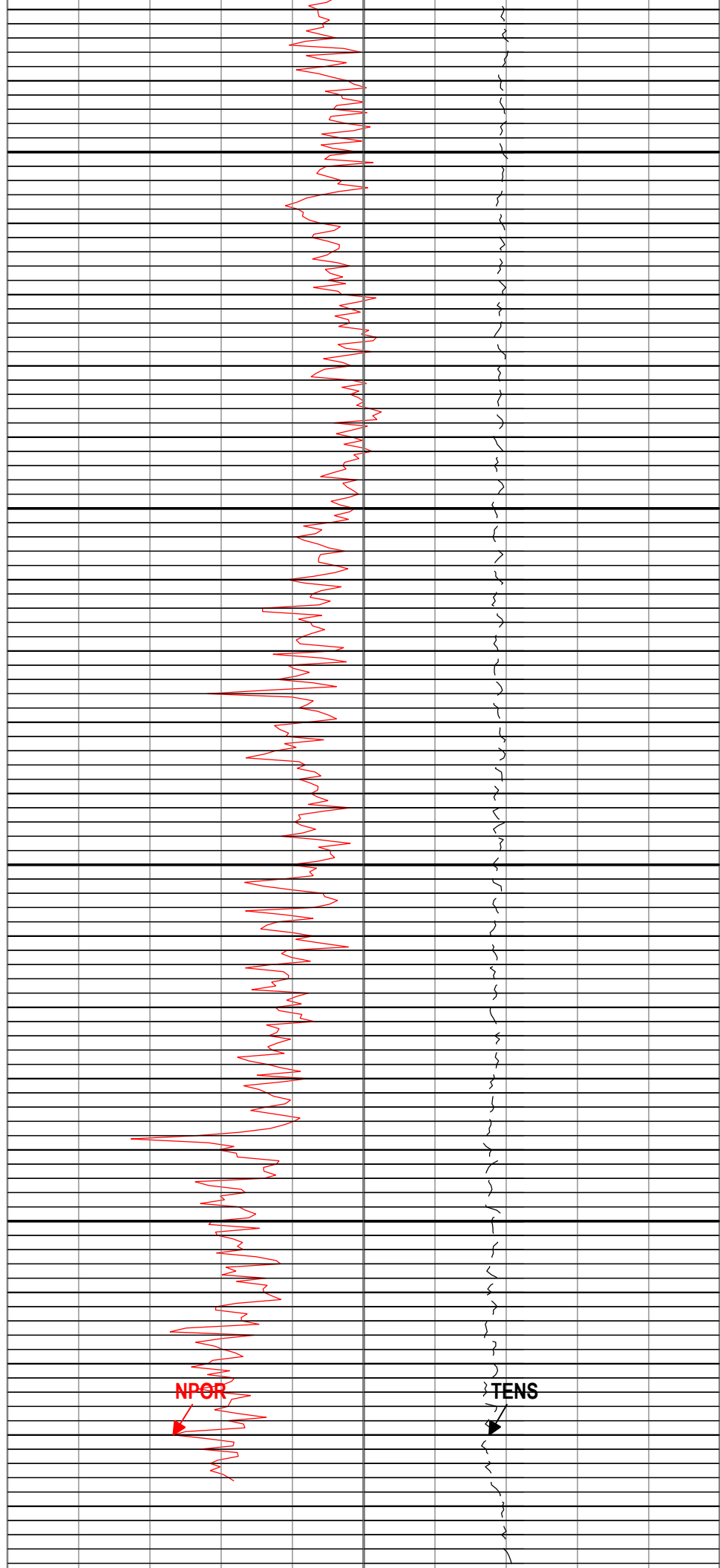
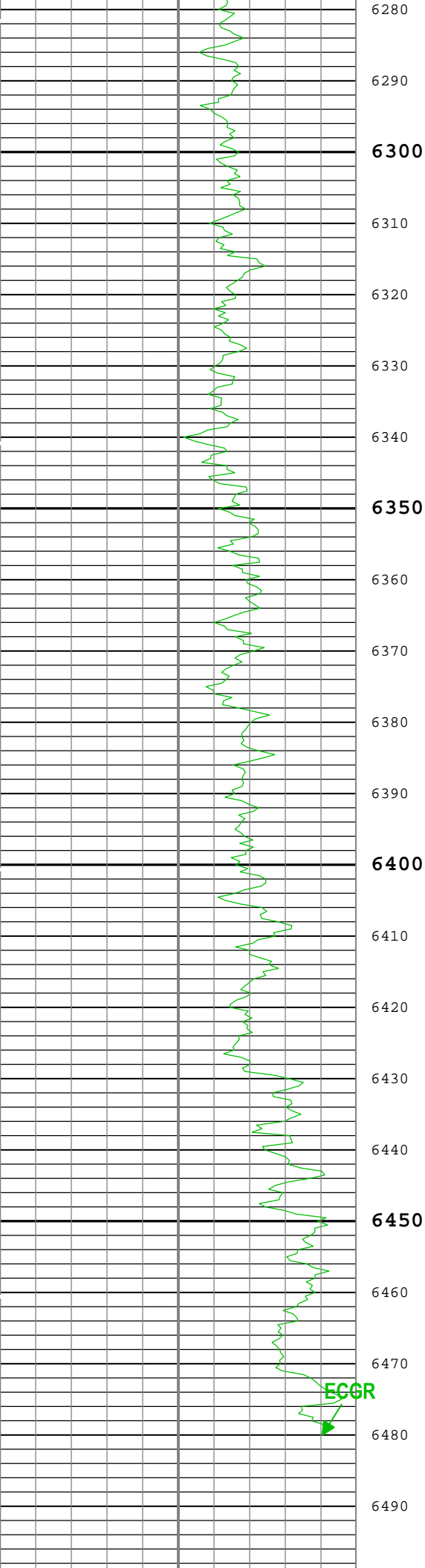












6500

A horizontal bar chart illustrating the distribution of gAPI values across three categories. The x-axis is labeled 'gAPI' and ranges from 0 to 150. The categories are represented by colored bars: blue for 'Main To Repeat' (0 to 50), yellow for 'Repeat To Main' (50 to 100), and green for 'Gamma Ray (ECGR) HGNS[1]' (100 to 150).

[illegible]

Diagram illustrating the scale for Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS[1]. The scale ranges from 0.45 to -0.15. The top section is labeled "Main To Repeat" and the bottom section is labeled "Repeat To Main".

The diagram shows a horizontal bar representing cable tension. The bar is divided into two colored sections: a purple section on the left labeled 'Main To Repeat' and a yellow section on the right labeled 'Repeat To Main'. Below the bar, a horizontal axis is labeled 'Cable Tension (TENS)' with units 'lbf'. The axis has tick marks at 5000 on the left and 0 on the right, indicating a decreasing scale from left to right.

— ICV - Integrated Cement Volume every 100.00 (ft3)

└ ICV - Integrated Cement Volume every 10.00 (ft3)

TIME\_1900 - Time Marked every 60.00 (s)

—IHV - Integrated Hole Volume every 100.00 (ft3)

—IHV - Integrated Hole Volume every 10.00 (ft3)

|                                |                          |                              |                |                            |                                     |
|--------------------------------|--------------------------|------------------------------|----------------|----------------------------|-------------------------------------|
| Description: AIT Basic Log Two | Format: Noble Nuclear RA | Index Scale: 5 in per 100 ft | Index Unit: ft | Index Type: Measured Depth | Creation Date: 10-Apr-2017 05:43:15 |
|--------------------------------|--------------------------|------------------------------|----------------|----------------------------|-------------------------------------|

## Channel Processing Parameters

## One: Parameters

| Parameter         | Description  | Tool            | Value           | Unit         |
|-------------------|--|-----------------|-----------------|--------------|
| ISSBAR            | Barite Mud Presence Flag   | Borehole        | No              |              |
| BHS               | Borehole Status (Open or Cased Hole)   | Borehole        | Cased           |              |
| BHT               | Bottom Hole Temperature  | Borehole        | 218             | degF         |
| BS                | Bit Size   | WLSESSION       | Depth Zoned     | in           |
| BSAL              | Borehole Salinity  | Borehole        | 0               | ppm          |
| CBLO              | Casing Bottom (Logger)   | WLSESSION       | 16753.9         | ft           |
| CDEN              | Cement Density   | HGNS-H          | 2               | g/cm3        |
| CMTY(U-USIT_CEMT) | Cement Type  | USIT-E          | Regular Cement  |              |
| CSODDRL           | Casing Outer Diameter - Zoned along driller depths                               | WLSESSION       | 5.5             | in           |
| DC_MODE           | Depth Correction Mode  | DepthCorrection | Real-time       |              |
| DFD               | Drilling Fluid Density   | Borehole        | 9.3             | lbm/gal      |
| DFT               | Drilling Fluid Type  | Borehole        | Water           |              |
| DFT_WATER         | Drilling Fluid Water Type  | Borehole        | Brine           |              |
| EDF               | Elevation of Derrick Floor Above Permanent Datum                                 | WLSESSION       | 29              | ft           |
| EPD               | Elevation of Permanent Datum (PDAT) above Mean Sea Level                         | WLSESSION       | 4708            | ft           |
| FSAL              | Formation Salinity   | Borehole        | 0               | ppm          |
| 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)          |              |
| GGRD              | Geothermal Gradient  | Borehole        | 1               | 0.01 degF/ft |
| GRSE              | Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity | Borehole        | REMS(RT)        |              |
| GTSE              | Generalized Temperature Selection, from Measured or Computed Temperature         | Borehole        | GTEM_LINEST(RT) |              |
| HSCO              | Hole Size Correction Option  | HGNS-H          | Yes             |              |
| IMAR              | Image Rotation   | USIT-E          | Off             |              |
| MATR              | Rock Matrix for Neutron Porosity Corrections                                     | Borehole        | LIMESTONE       |              |
| MFST              | Mud Filtrate Sample Temperature  | Borehole        | 68              | degF         |

|              |  |           |                |       |
|--------------|--|-----------|----------------|-------|
| MST          | Mud Sample Temperature                             | Borehole  | 68             | degF  |
| PDAT         | Permanent Datum                                    | WLSESSION | GL             |       |
| RMFS         | Resistivity of Mud Filtrate Sample                 | Borehole  | 0.15           | ohm.m |
| RMS          | Resistivity of Mud Sample                          | Borehole  | 0.2            | ohm.m |
| SHT          | Surface Hole Temperature                           | Borehole  | 68             | degF  |
| U-USIT_DFSZ  | Drilling Fluid Specific Acoustic Impedance         | USIT-E    | 0.1            | Mrayl |
| UFGDE        | Fiberglass Density                                 | USIT-E    | 1.95           | g/cm3 |
| UFGPS        | Fiberglass Processing Selection                    | USIT-E    | No             |       |
| UFGVL        | Fiberglass Velocity                                | USIT-E    | 9678.48        | ft/s  |
| USI_FSOD     | USIT USI Fluid Slowness Fits Casing Outer Diameter | USIT-E    | 0_OFF          |       |
| USI_FVEL_SEL | USI Fluid Velocity Selection                       | USIT-E    | Automatic      |       |
| USI_ZMUD_SEL | USI Mud Impedance Selection                        | USIT-E    | FreePipe Norm. |       |

| OneDepth Zoned Parameters |       |              |             |
|---------------------------|-------|--------------|-------------|
| Parameter                 | Value | Start ( ft ) | Stop ( ft ) |
| BS                        | 26    | 36           | 110         |
| BS                        | 13.5  | 110          | 1930        |
| BS                        | 8.5   | 1930         | 6508.5      |
| All depth are actual.     |       |              |             |

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

| One: Parameters |                                    |           |                                  |      |
|-----------------|------------------------------------|-----------|----------------------------------|------|
| Parameter       | Description                        | Tool      | Value                            | Unit |
| MAX_LOG_SPEED   | Toolstring Maximum Logging Speed   | WLSESSION | 3600                             | ft/h |
| ULOG            | Logging Objective                  | USIT-E    | MEASUREMENT                      |      |
| UMFR            | Modulation Frequency               | USIT-E    | 333333                           | Hz   |
| UPAT            | USIT Emission Pattern              | USIT-E    | Pattern 375 KHz                  |      |
| UWKM            | USIT Working Mode                  | USIT-E    | Uncompressed 10 deg at 6.0 in LF |      |
| USIT_DEPTHLOG   | Starting Depth Log for Ultrasonics | USIT-E    | 6500                             | ft   |
| WINB            | Window Begin Time                  | USIT-E    | 31.88                            | us   |
| WINE            | Window End Time                    | USIT-E    | 71.88                            | us   |

|          |                            |              |
|----------|----------------------------|--------------|
| Company: | Noble Energy, Inc.         | Schlumberger |
| Well:    | Wells Ranch State AA33-790 |              |
| Field:   | Wattenberg                 |              |

|  |          |
|--|----------|
| County:                                  | Weld     |
| State:                                   | Colorado |
| Cased Hole Neutron Porosity<br>Gamma Ray |          |