

Company: Vecta Oil & Gas Ltd

Well: Snowmass 44-32

Field: Wildcat

County: Cheyenne State: Colorado

| | |
|--|-----------------------|
| Platform Express | |
| Caliper | |
| Cement Volume | |
| County: Cheyenne | |
| Field: Wildcat | |
| Location: Lot 16, Sec. 32, Twn.12S, Rng. 47W | |
| Well: Snowmass 44-32 | |
| Company: Vecta Oil & Gas Ltd | |
| Location: | |
| Lot 16, Sec. 32, Twn. 12S, Rng. 47W | Elev. K.B. 4528.00 ft |
| SHL: 689' FSL & 643' FEL | G.L. 4517.00 ft |
| Lat/Long: 38.955540/-102.688810 | D.F. 4527.00 ft |
| Permanent Datum: | Ground Level |
| Log Measured From: | Kelly Bushing |
| Drilling Measured From: | Kelly Bushing |
| API Serial No. | Section: 32 |
| 05-017-07725-00 | Township: 12S |
| | Range: 47W |

| | |
|-----------------------------|-----------------------|
| Logging Date | 20-Oct-2012 |
| Run Number | Run 1 |
| Depth Driller | 5858.00 ft |
| Schlumberger Depth | 5852.00 ft |
| Bottom Log Interval | 5852.00 ft |
| Top Log Interval | 427.00 ft |
| Casing Driller Size @ Depth | 8.625 in @ 434.00 ft |
| Casing Schlumberger | 427 ft |
| Bit Size | 7.875 in |
| Type Fluid In Hole | Chemical Gel |
| Density | 9.2 lbm/gal |
| Fluid Loss | 7.2 cm3 |
| Source of Sample | Flowline |
| RM @ Meas Temp | 1.6 ohm.m @ 60.6 degF |
| RMF @ Meas Temp | 1.2 ohm.m @ 60.6 degF |
| RMC @ Meas Temp | 2 ohm.m @ 60.6 degF |
| Source RMF | RMC |
| RM @ BHT | 0.71 @ 145 |
| Max Recorded Temperatures | 145 degF |
| Circulation Stopped | 20-Oct-2012 02:00:00 |
| Logger on Bottom | 20-Oct-2012 19:26:42 |
| Unit Number | 3022 |
| Recorded By | Stan, Arvin, Megan |
| Witnessed By | Ryan Scribner |

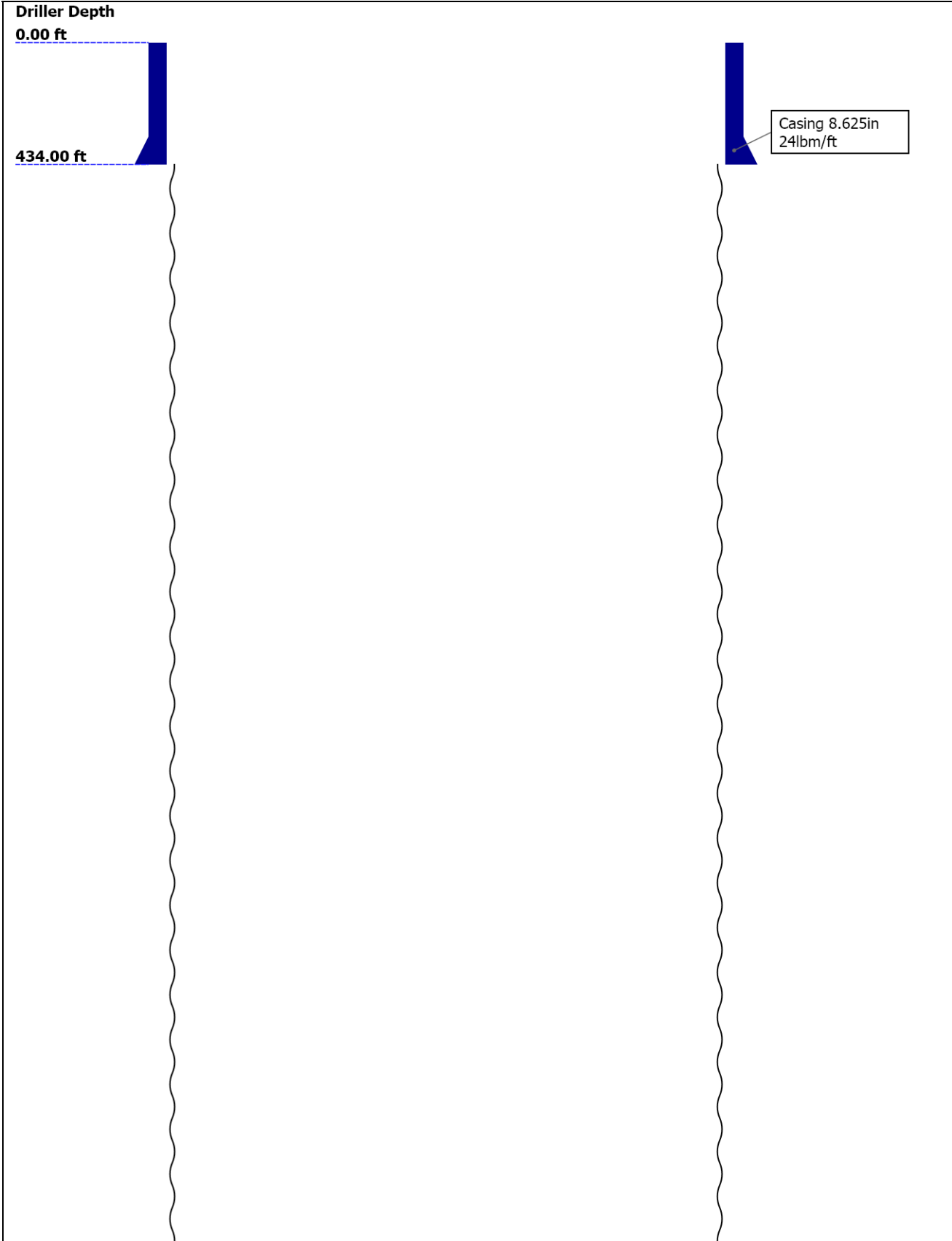
Disclaimer

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Well Sketch





| Borehole Size/Casing/Tubing Record | | | | | | |
|------------------------------------|--|--|--|--|--|--|
|------------------------------------|--|--|--|--|--|--|

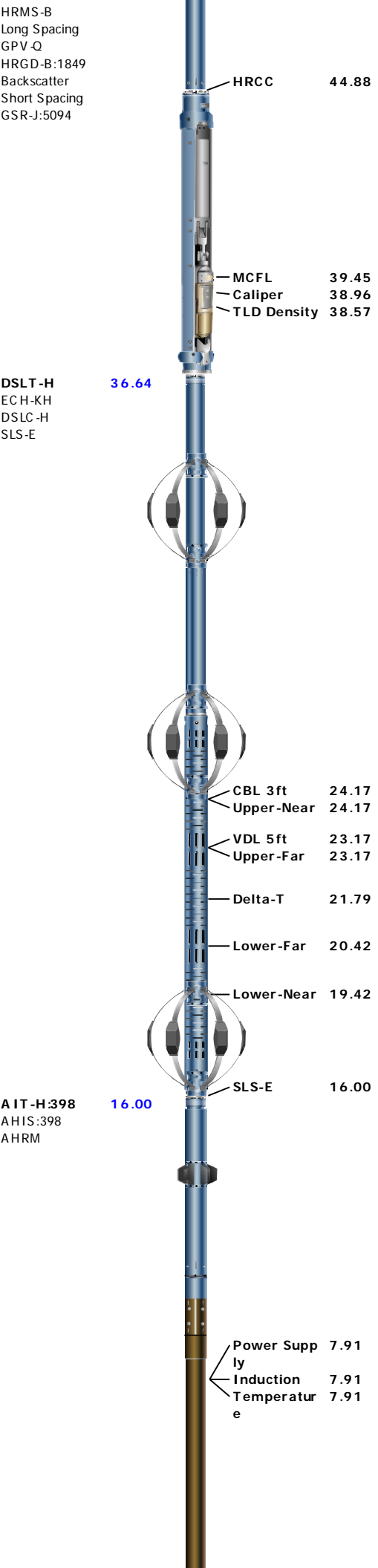
| | | | | | | |
|-----------------------|-------|--|--|--|--|--|
| Bit | | | | | | |
| Bit Size (in) | 7.875 | | | | | |
| Top Driller (ft) | 434 | | | | | |
| Top Logger (ft) | 427 | | | | | |
| Bottom Driller (ft) | 5858 | | | | | |
| Bottom Logger (ft) | 5852 | | | | | |
| Casing | | | | | | |
| Size (in) | 8.625 | | | | | |
| Weight (lbm/ft) | 24 | | | | | |
| Inner Diameter (in) | 8.099 | | | | | |
| Top Driller (ft) | 0 | | | | | |
| Top Logger (ft) | 0 | | | | | |
| Bottom Driller (ft) | 434 | | | | | |
| Bottom Logger (ft) | 427 | | | | | |

| Operational Run Summary | | | | | | |
|-------------------------|--|--|--|--|--|--|
|-------------------------|--|--|--|--|--|--|

| | | | | | | |
|----------------------------------|-----------------------|--|--|--|--|--|
| Parameter (unit) | Run 1 | | | | | |
| Date Log Started | 20-Oct-2012 | | | | | |
| Time Log Started | 08:45:30 | | | | | |
| Date Log Finished | 20-Oct-2012 | | | | | |
| Time Log Finished | 21:22:59 | | | | | |
| | | | | | | |
| Top Log Interval (ft) | 427.00 | | | | | |
| Bottom Log Interval (ft) | 5852.00 | | | | | |
| | | | | | | |
| Total Depth (ft) | 5858.00 | | | | | |
| Max Hole Deviation (deg) | 0.00 | | | | | |
| Azimuth of Max Deviation (deg) | 0.00 | | | | | |
| Bit Size (in) | 7.875 | | | | | |
| | | | | | | |
| Logging Unit Number | 3022 | | | | | |
| Logging Unit Location | Ft. Morgan | | | | | |
| Recorded By | Stan, Arvin, Megan | | | | | |
| Witnessed By | Ryan Scribner | | | | | |
| Service Order Number | C6VJ-00026 | | | | | |

| Borehole Fluids | | | | | | |
|------------------------------------|----------------------|--|--|--|--|--|
| Parameter(unit) | Run 1 | | | | | |
| Fluid Type | Water | | | | | |
| Fluid Name | Chemical Gel | | | | | |
| Max Recorded Temperatures (degF) | 145 | | | | | |
| Source of Sample | Flowline | | | | | |
| Salinity (ppm) | 500 | | | | | |
| Density (lbm/gal) | 9.2 | | | | | |
| Funnel Viscosity (s) | 62 | | | | | |
| Fluid Loss (cm3) | 7.2 | | | | | |
| PH | 8 | | | | | |
| Date/Time Circulation Stopped | 20-Oct-2012 02:00:00 | | | | | |
| Date Logger on Bottom | 20-Oct-2012 | | | | | |
| Time Logger on Bottom | 19:26:42 | | | | | |
| Source RMF | | | | | | |
| RMC | Calculated | | | | | |
| RM @ Meas Temp (ohm.m@degF) | 1.6 @ 60.6 | | | | | |
| RMF @ Meas Temp (ohm.m@degF) | 1.2 @ 60.6 | | | | | |
| RMC @ Meas Temp (ohm.m@degF) | 2 @ 60.6 | | | | | |
| RM @ BHT (ohm.m@degF) | 0.71 @ 145 | | | | | |
| RMF @ BHT (ohm.m@degF) | 0.53 @ 145 | | | | | |
| RMC @ BHT (ohm.m@degF) | 0.89 @ 145 | | | | | |
| Total Solid (%) | | | | | | |
| High Gravity Solids (%) | | | | | | |

| Remarks and Equipment Summary | | | | |
|---|--------|---|----------------------------------|---|
| Run 1: Toolstring | | | | Run 1: Remarks |
| Equip name | Length | MP name | Offset | <div> <div> <div>Toolstring run as per tool sketch.</div> <div></div> </div> </div> |
| LEH-QT LEH-QT | 64.21 | | | |
| DTC-H ECH-KC DTC-H | 61.29 | CTEM HV | 60.39 0.00 | |
| HGNS-B HGNH NPV-N NSR-F :5069 HGNS-B HACCZ-B:749 HMCA-B | 58.29 | TelStatus ToolStatus Temperature GR | 58.29 58.29 58.26 57.55 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| HDRS-B ECH-MEB HRCC-B | 48.88 | CNL Porosity HMCA HGNS Accelerometer | 51.21 48.88 48.88 0.00 | |



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| Depth Summary | | | |
|-----------------------------|---|--|--|
| Depth Control Parameters | Run 1 | | |
| Conveyance Type | Wireline | | |
| Log Sequence | Run 1 | | |
| Depth Remark Parameters | Run 1 | | |
| Depth Remark 1 | All Schlumberger depth procedures followed. | | |
| Depth Remark 2 | IDW as primary depth reference, Z-chart as secondary depth reference. | | |
| Depth Measuring Device | Run 1 | | |
| Type | IDW-B | | |
| Calibration Date | 02-Oct-2012 | | |
| Calibrator Serial Number | 78135a | | |
| Calibration Cable Type | 7-39P LXS | | |
| Wheel Correction 1 | 1 | | |
| Wheel Correction 2 | 0 | | |
| Tension Device | Run 1 | | |
| Type | CMTD-B/A | | |
| Serial Number | 1109 | | |
| Calibration Date | 02-Oct-2012 | | |
| Calibrator Serial Number | 78135a | | |
| Calibration Points | 10 | | |
| Calibration RMS | 6 | | |
| Calibration Peak Error | 10 | | |
| Logging Cable | Run 1 | | |
| Type | 7-39P-LXS | | |
| Serial Number | A711075 | | |
| Logging Cable Length (ft) | 16000.00 | | |

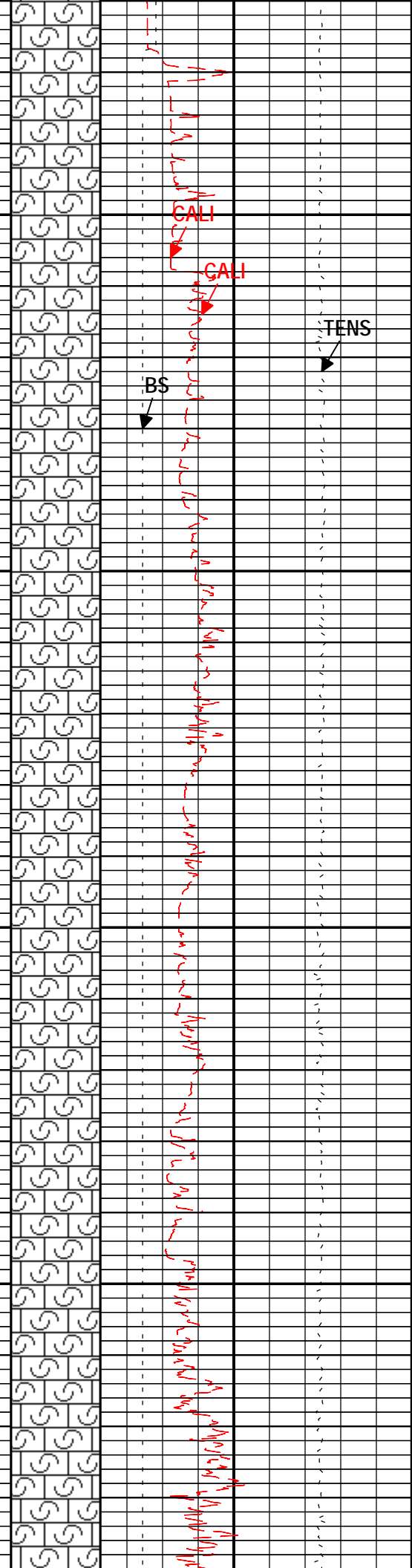
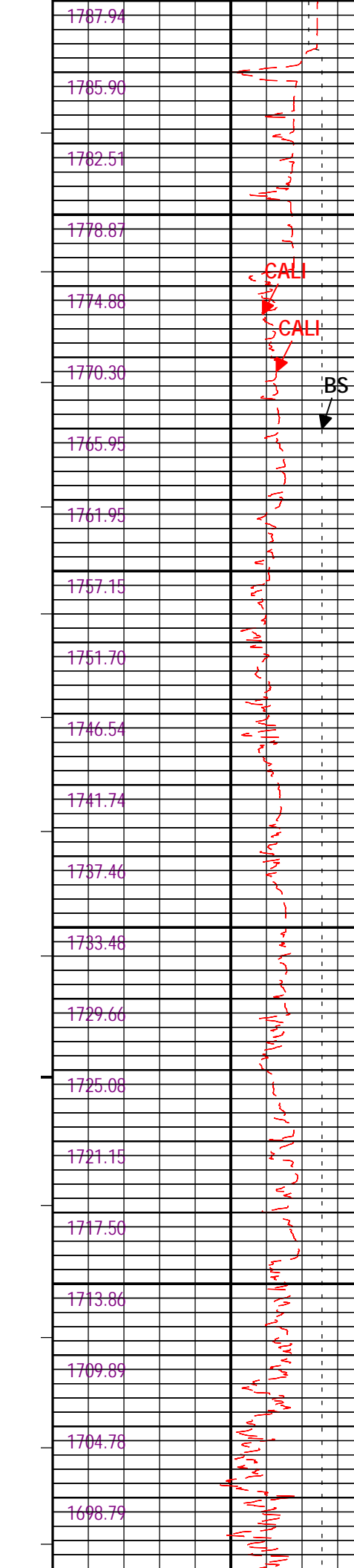
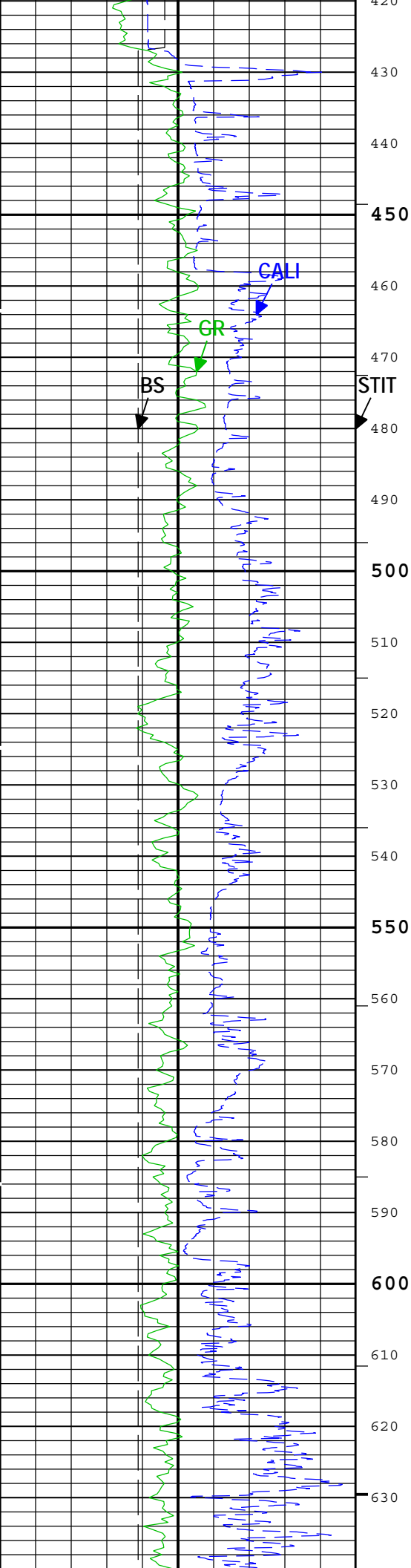
| |
|-------|
| Run 1 |
|-------|

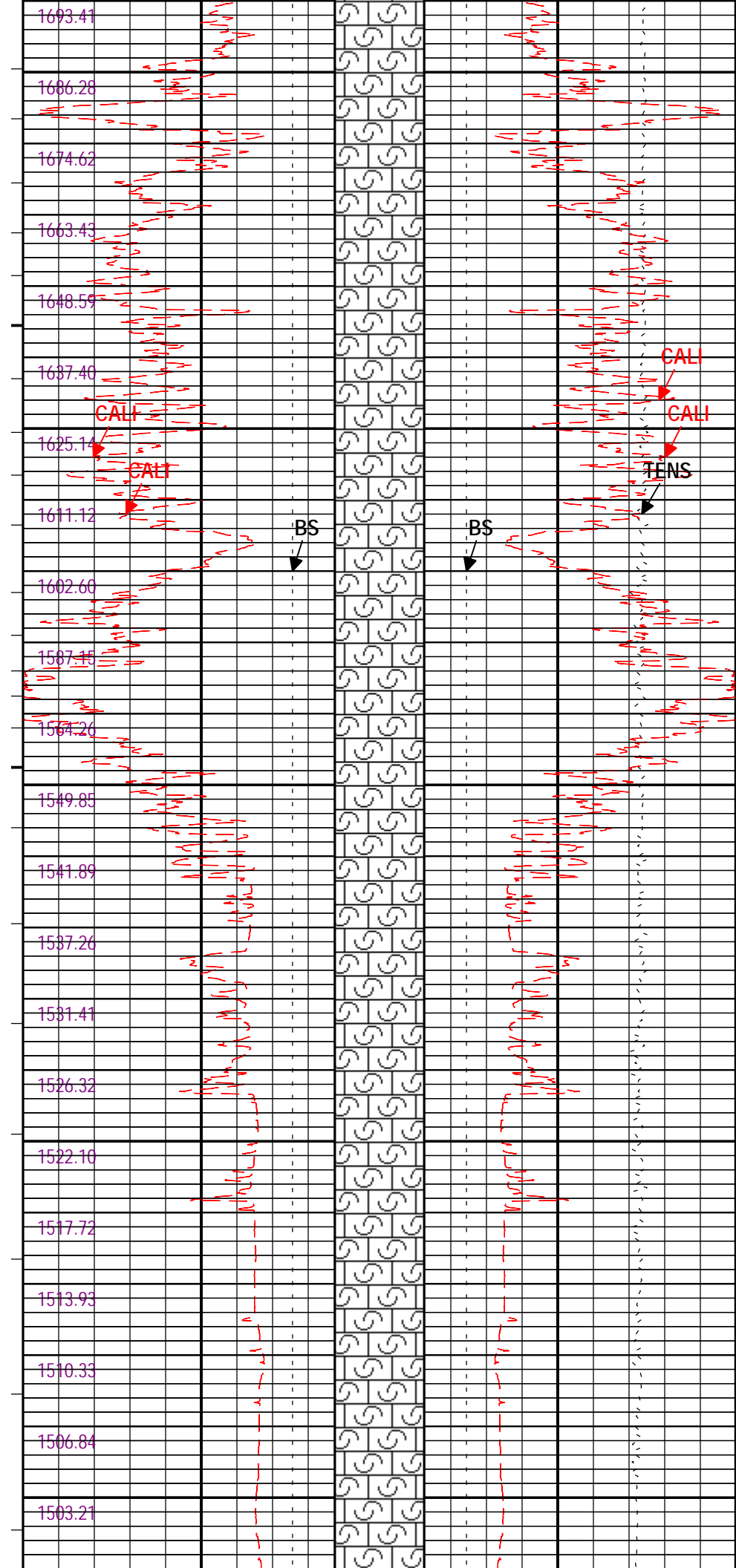
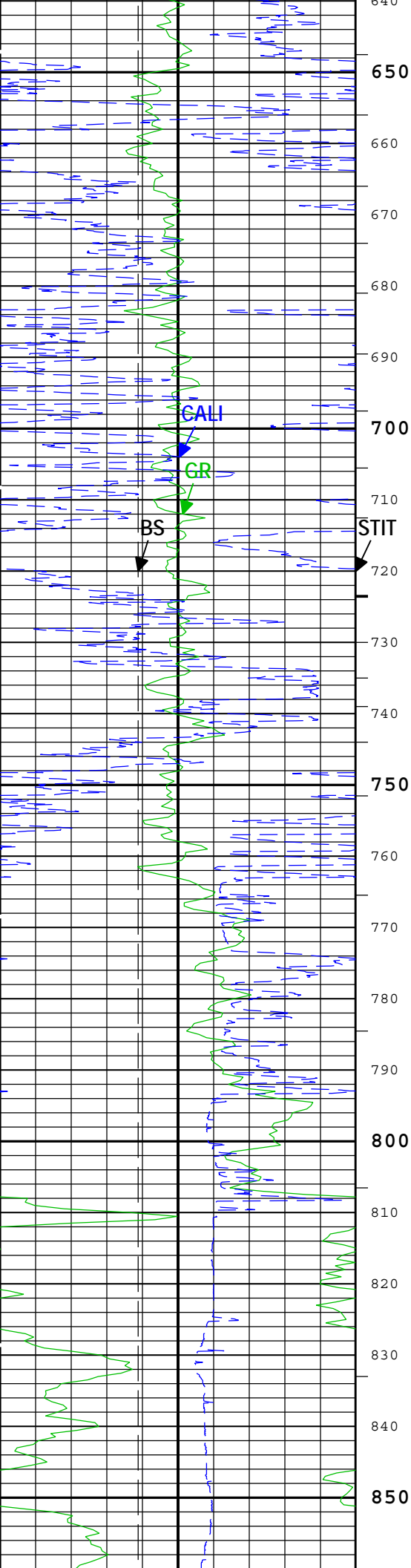
| |
|---------|
| Caliper |
|---------|

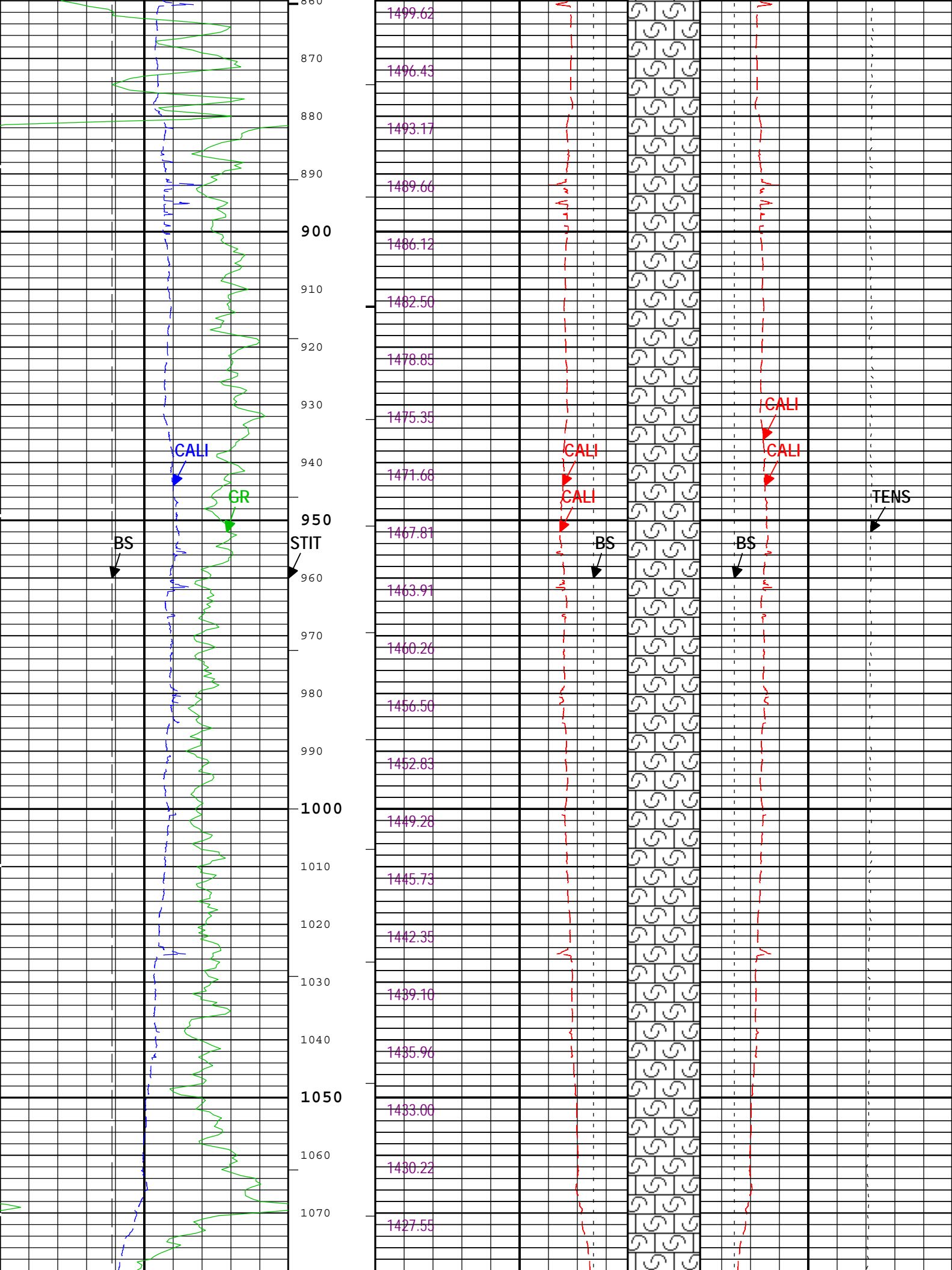
| Integration Summary | | | | |
|---------------------|--------------------------|-------------------|--------------|------|
| Output Channel(s) | Output Description | Input Parameter | Output Value | Unit |
| ICV | Integrated Cement Volume | GCSE_UP_PASS, FCD | 1787.85 | ft3 |
| IHV | Integrated Hole Volume | GCSE_UP_PASS | 2686.08 | ft3 |

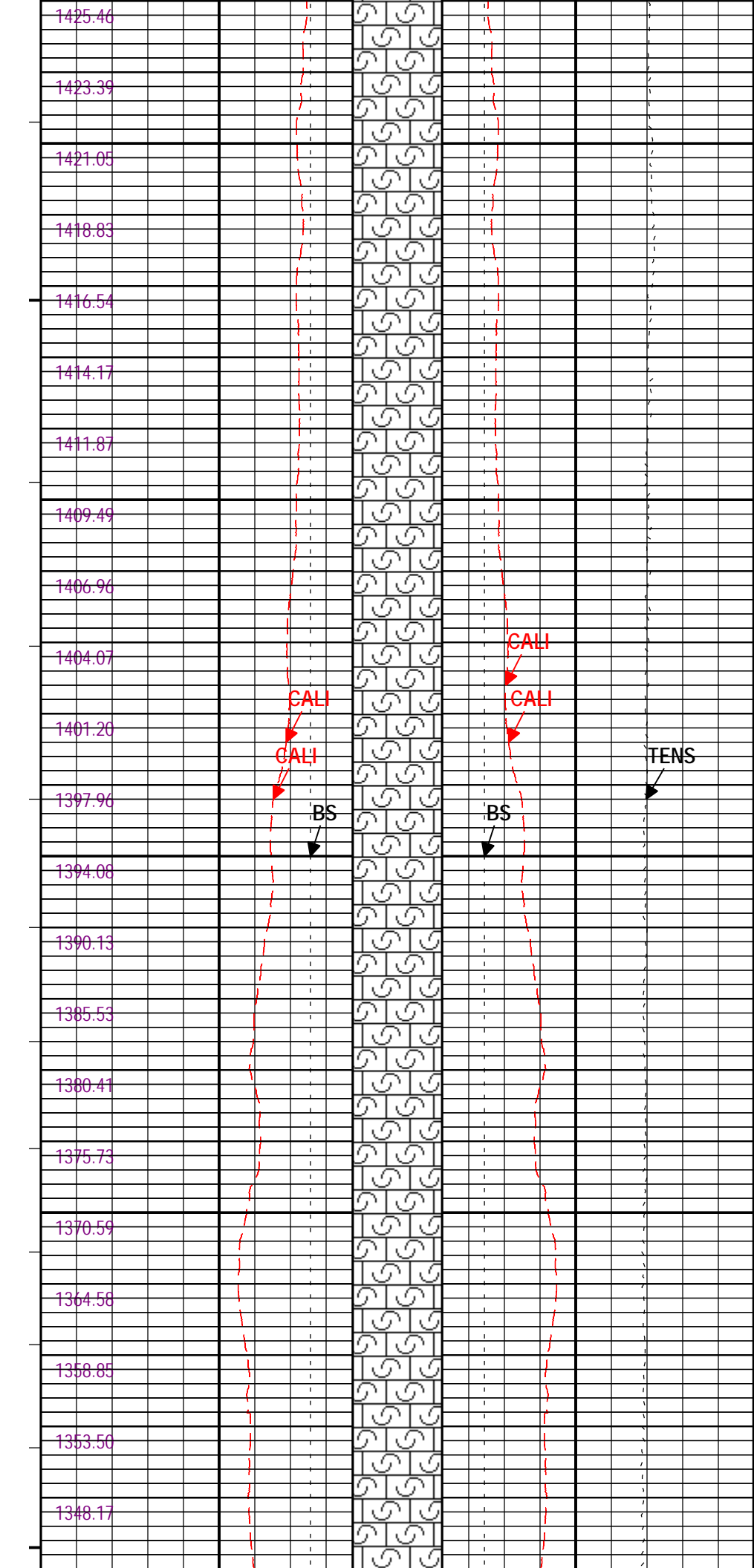
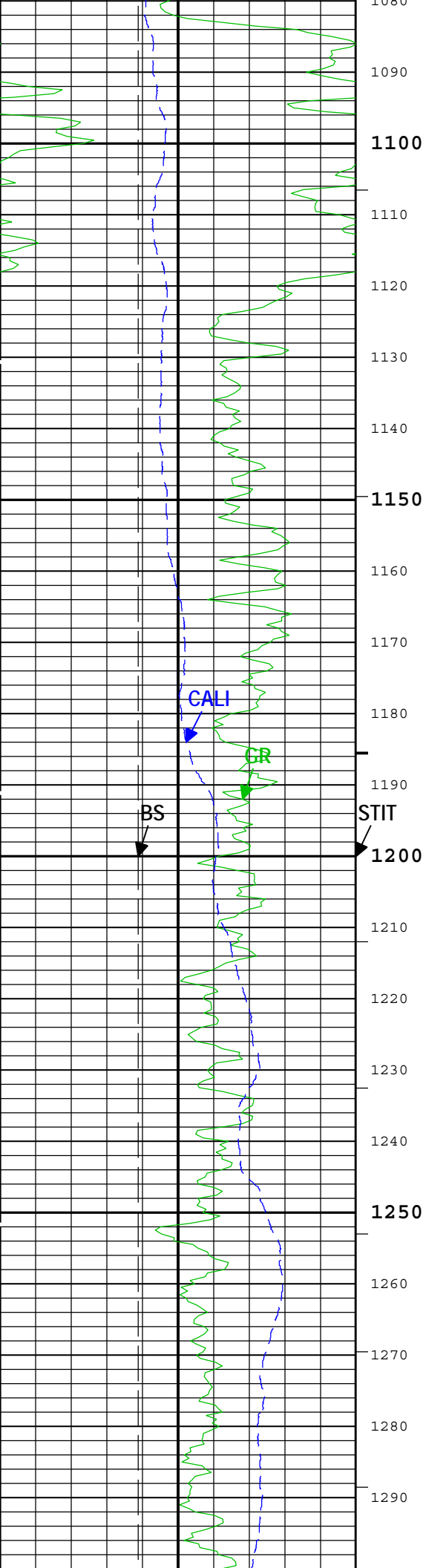
| Software Version | | | |
|--------------------|--|--------------------------------|--|
| Acquisition System | | Version | |
| MaxWell | | 3.1.9755.0 | |
| Application Patch | | SP-20120723-3.1.9755.1112 | |
| | | EXP_APL-MASTAXIS-3.1.9755.1221 | |

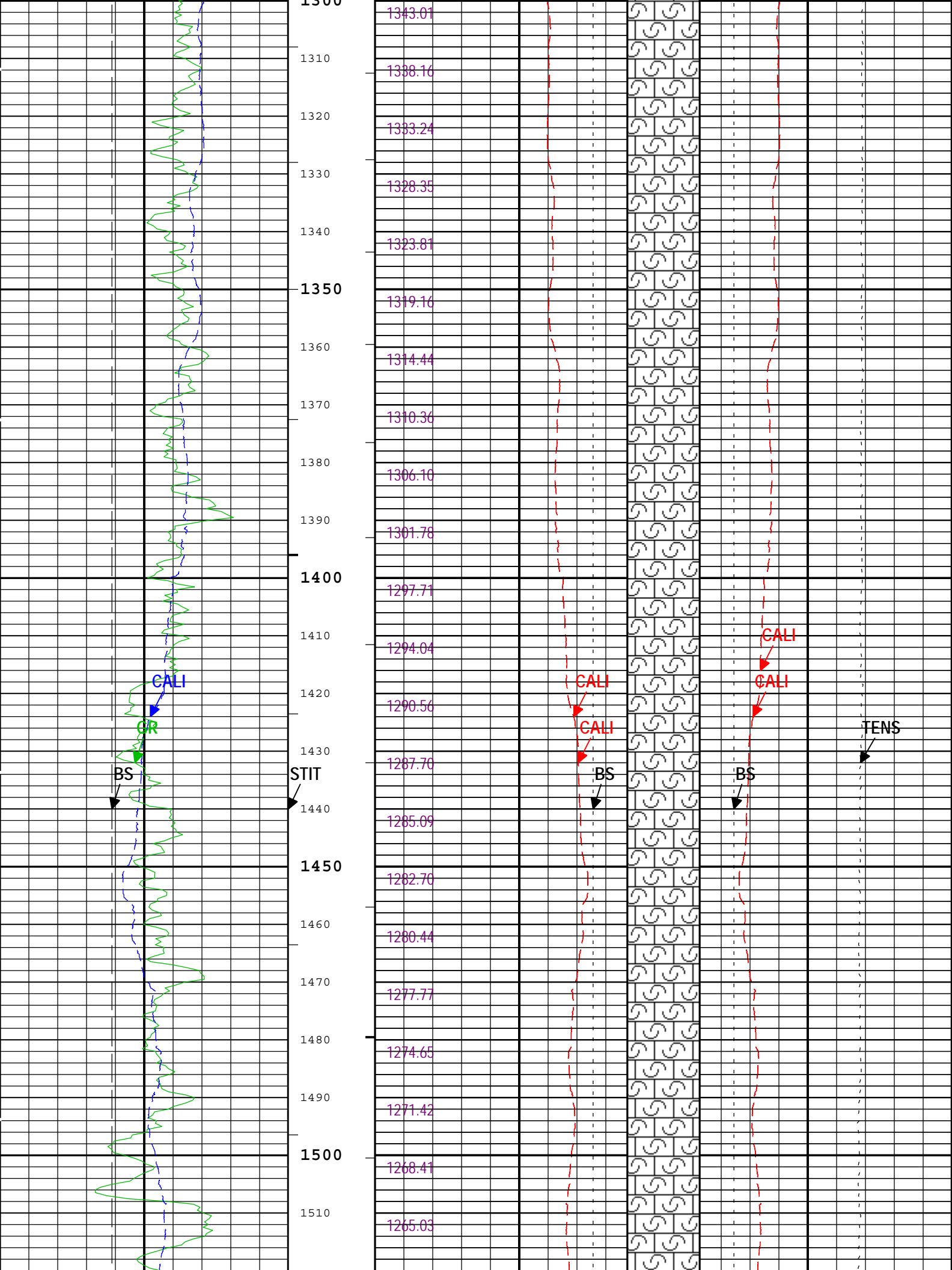
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|-------------|-------------|---------|
| Computation | Description | Version |
|-------------|-------------|---------|

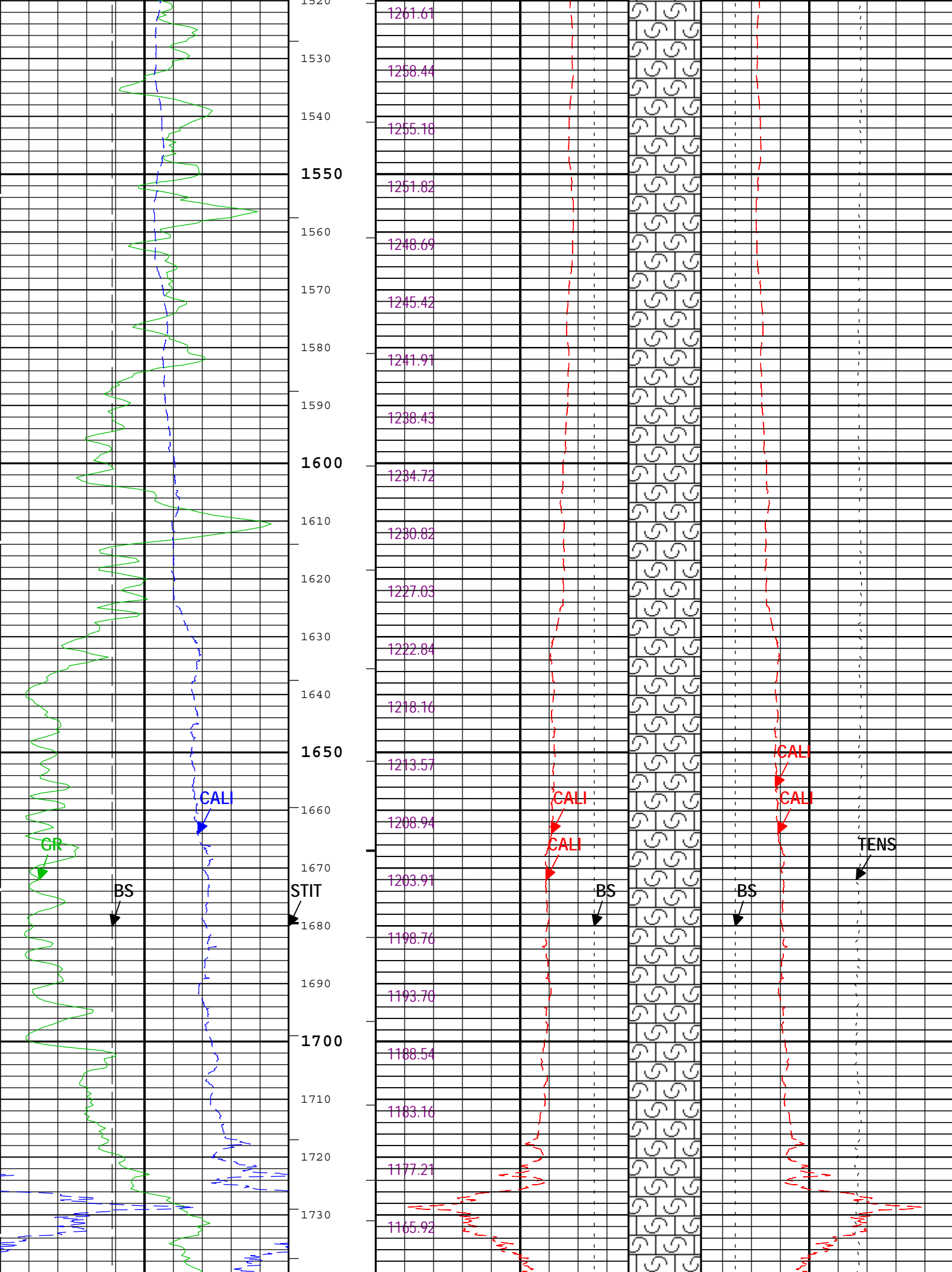


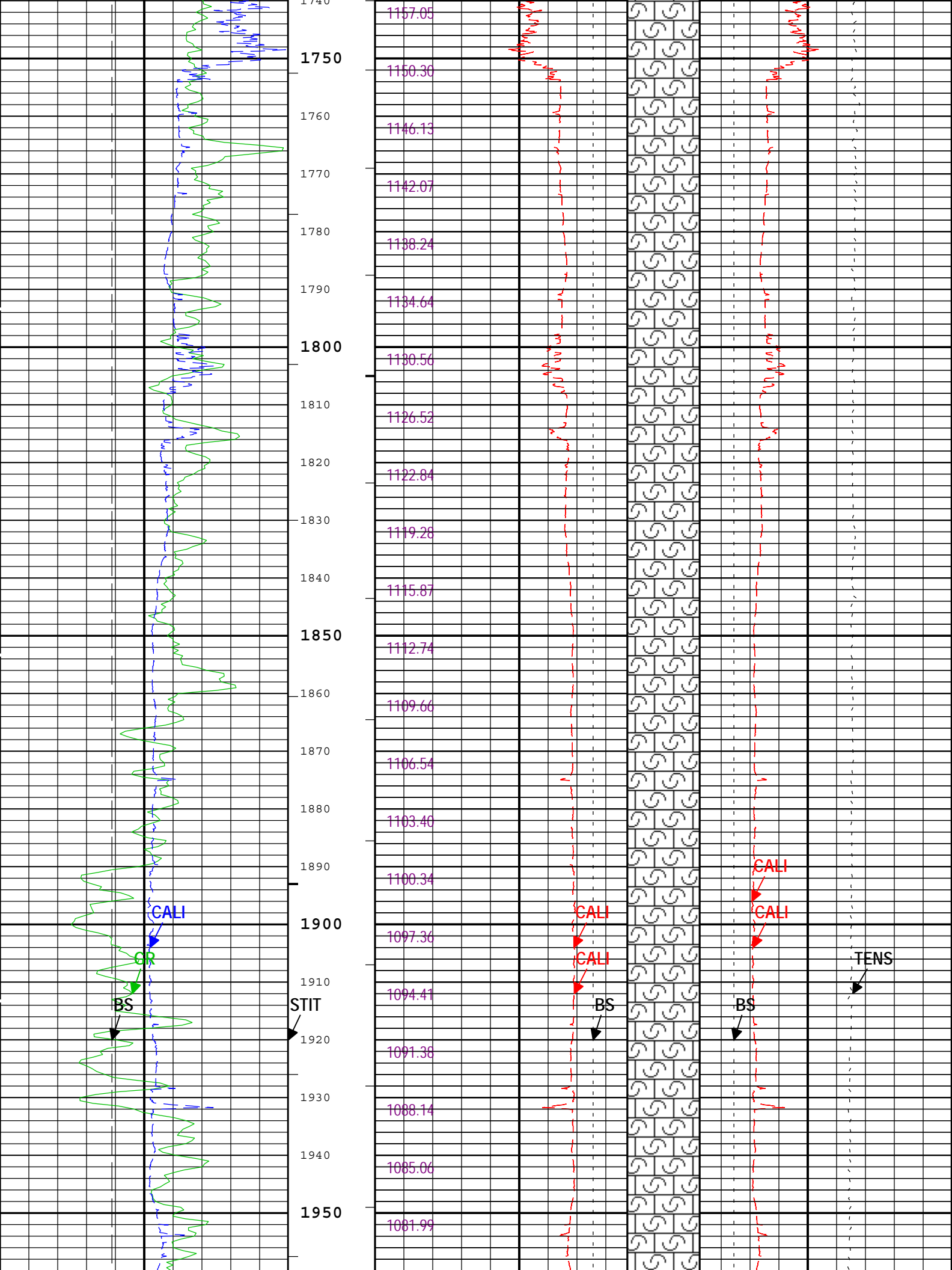


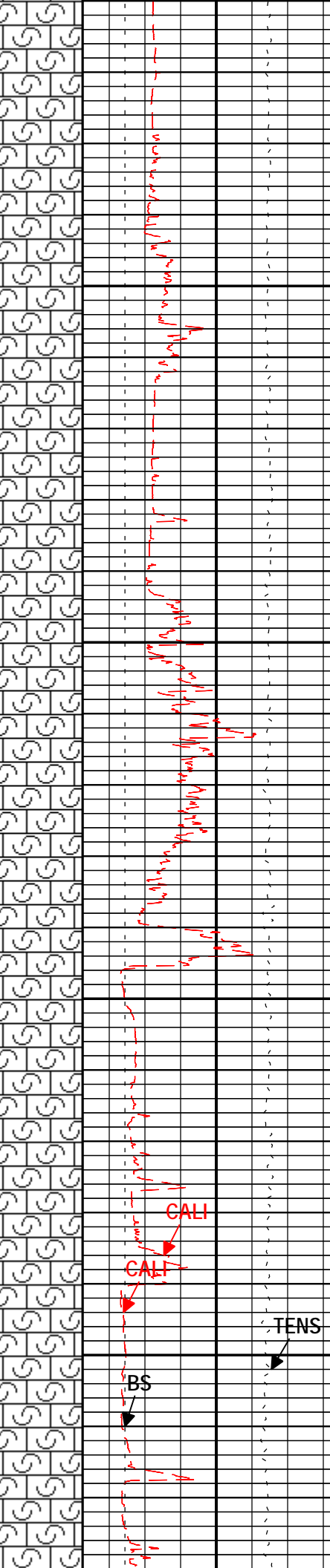
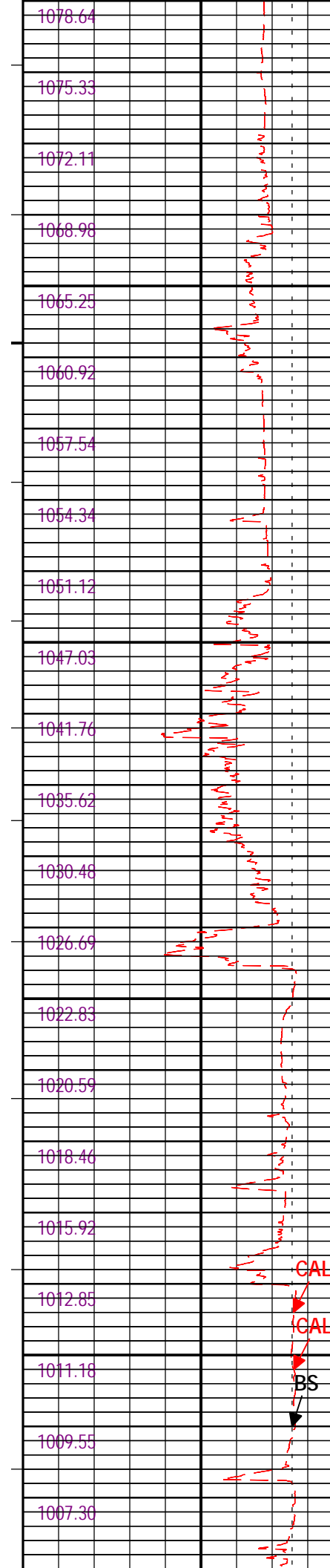
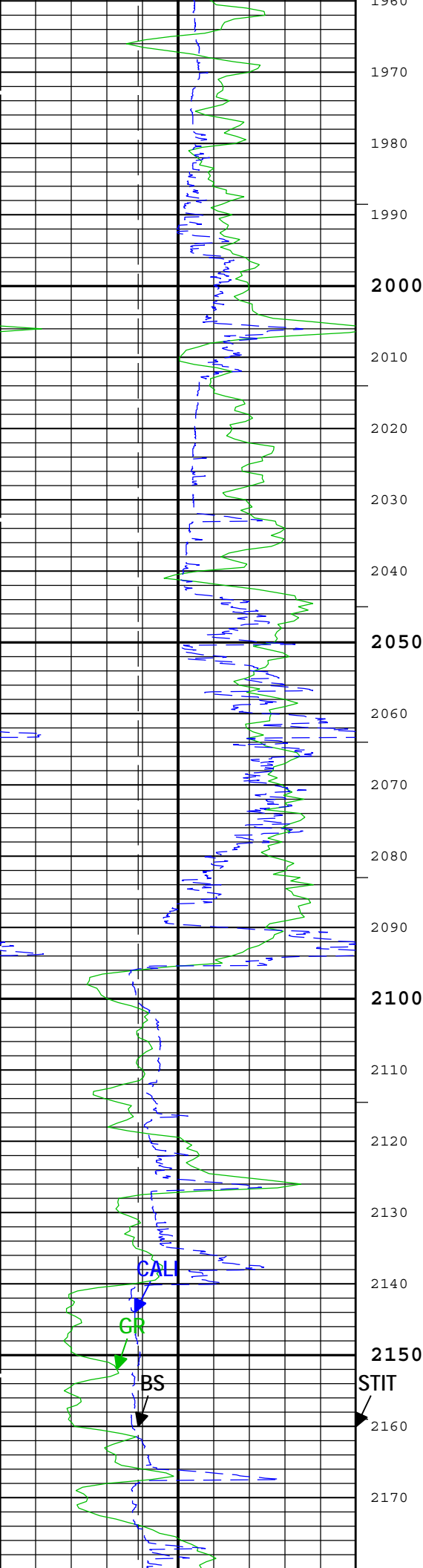


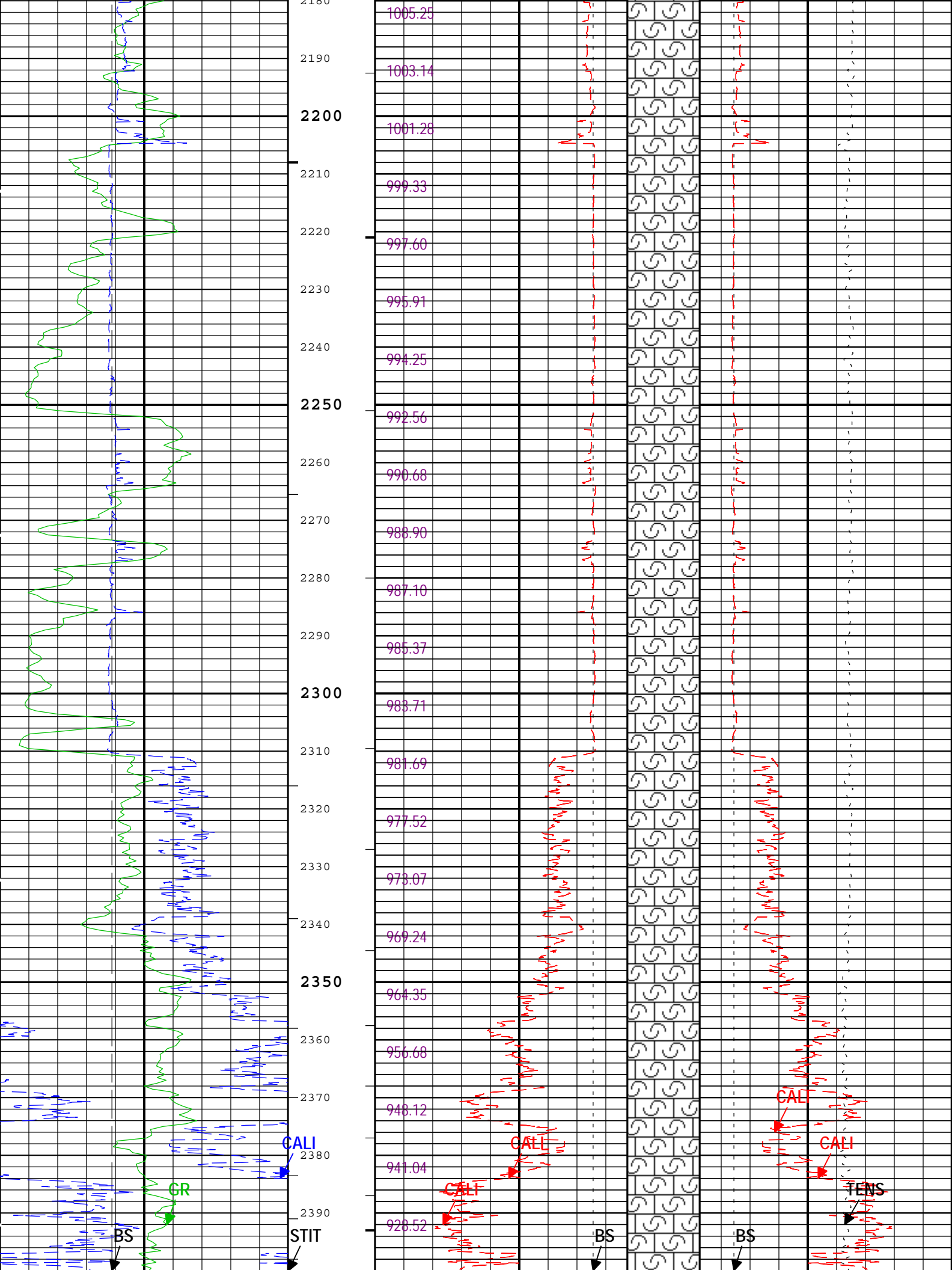


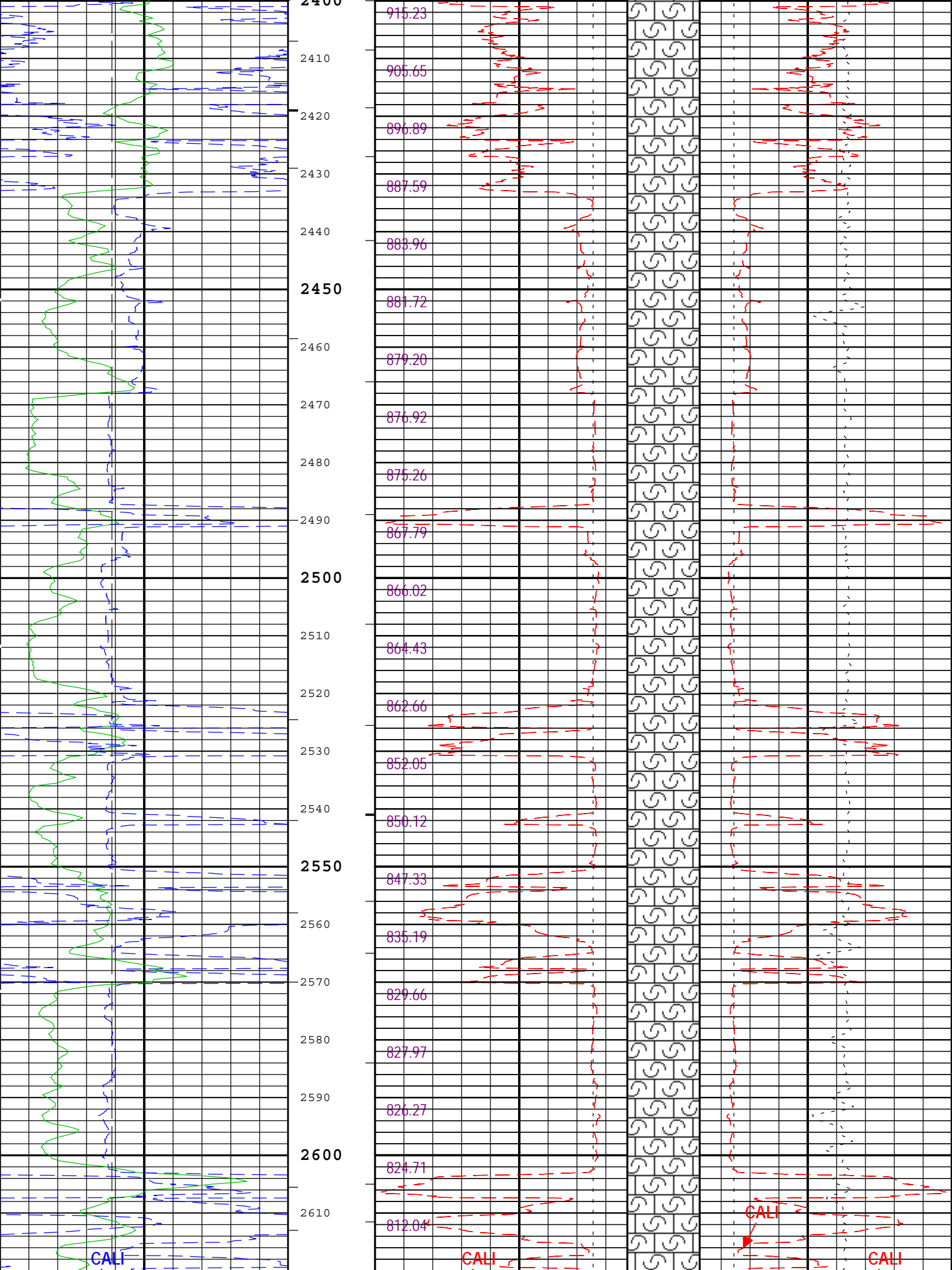


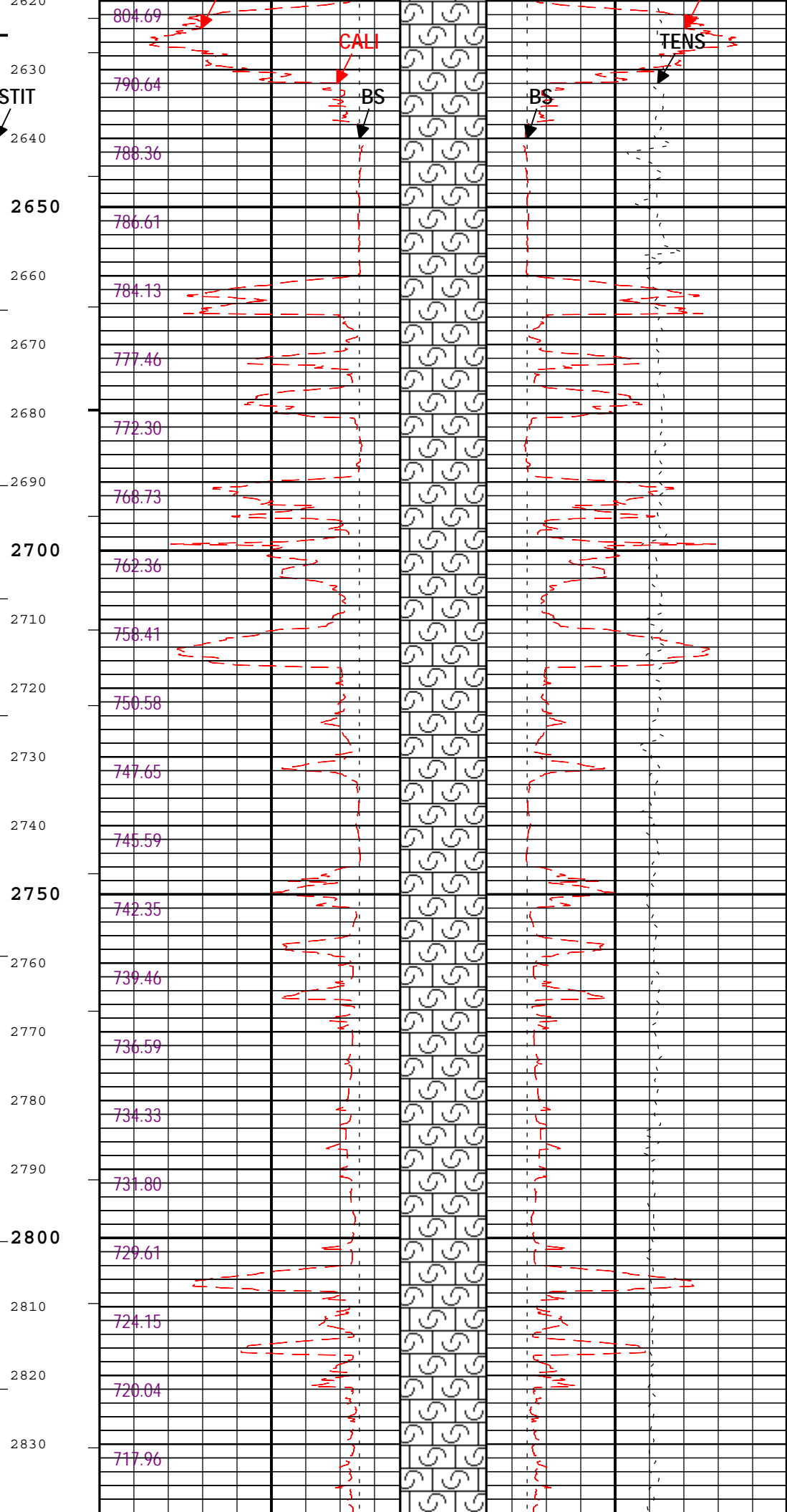
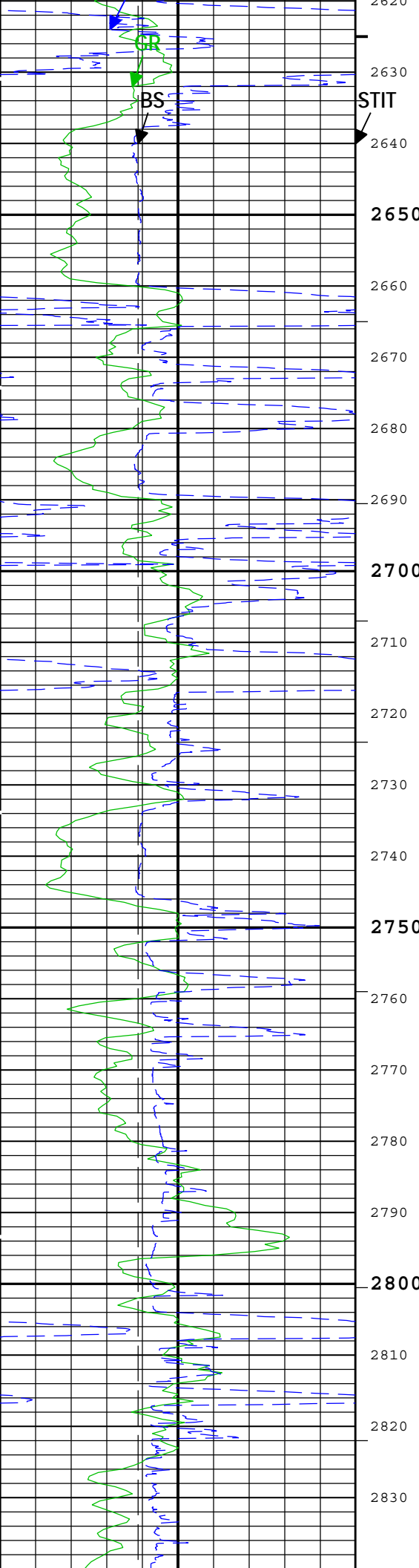


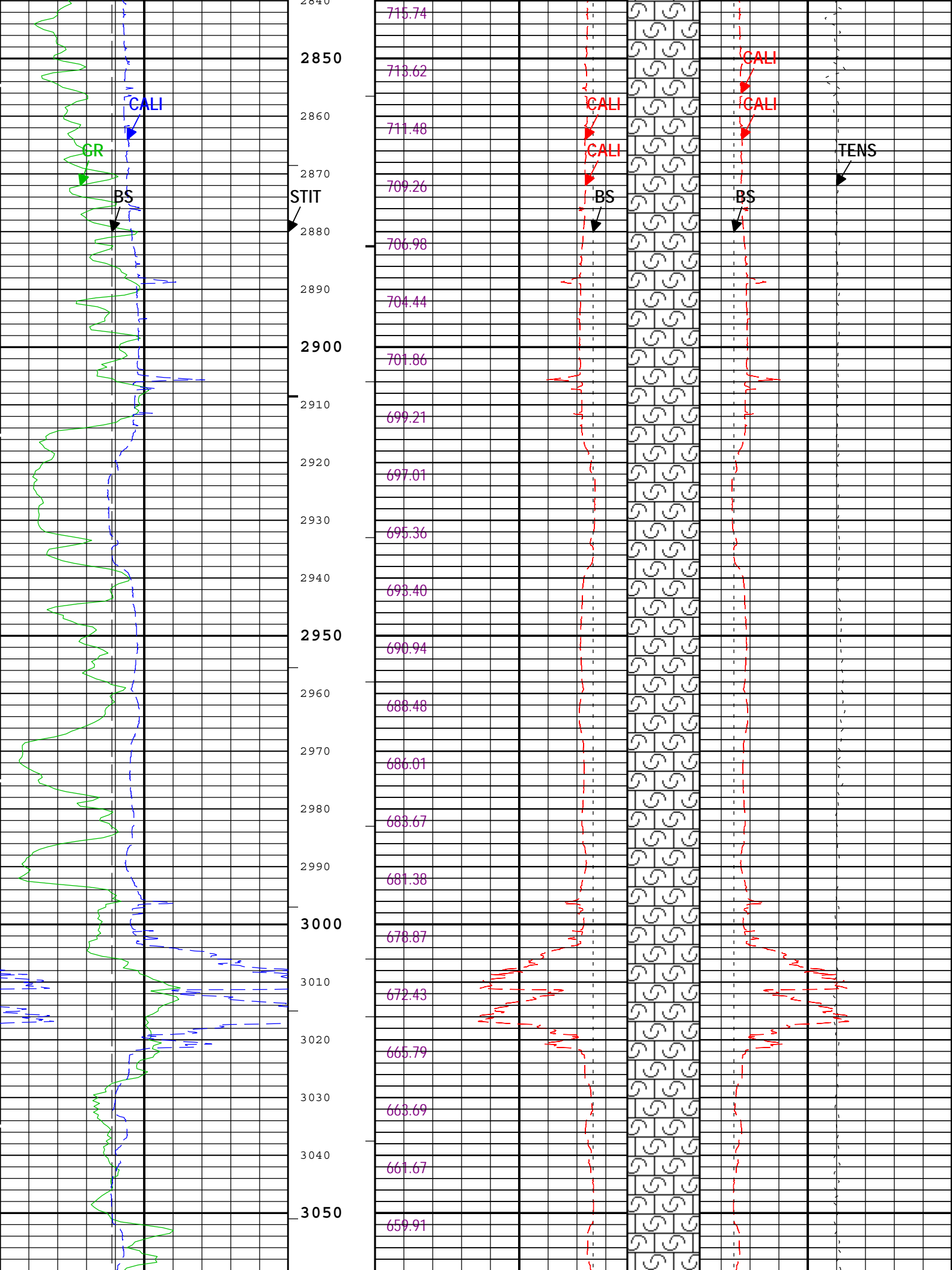


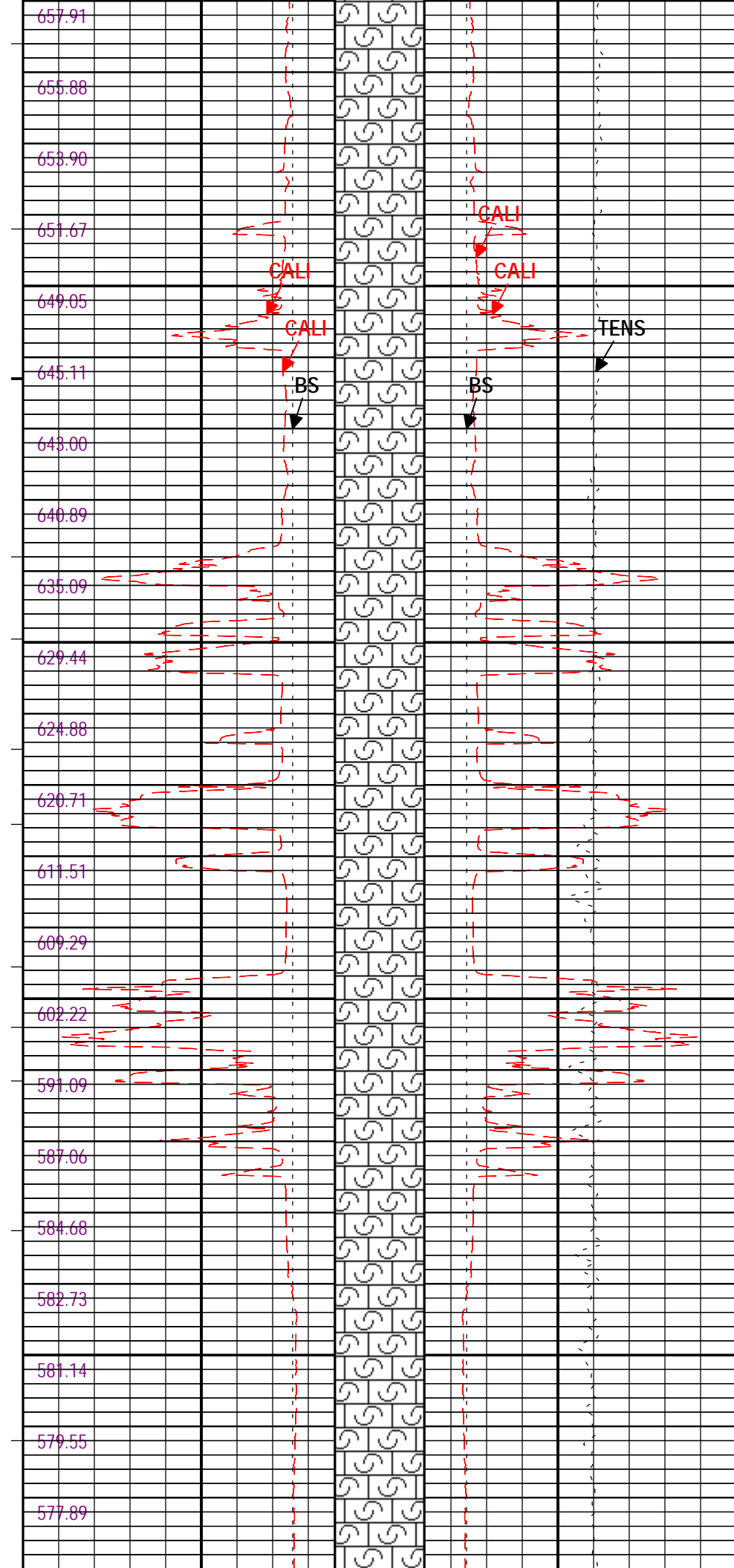
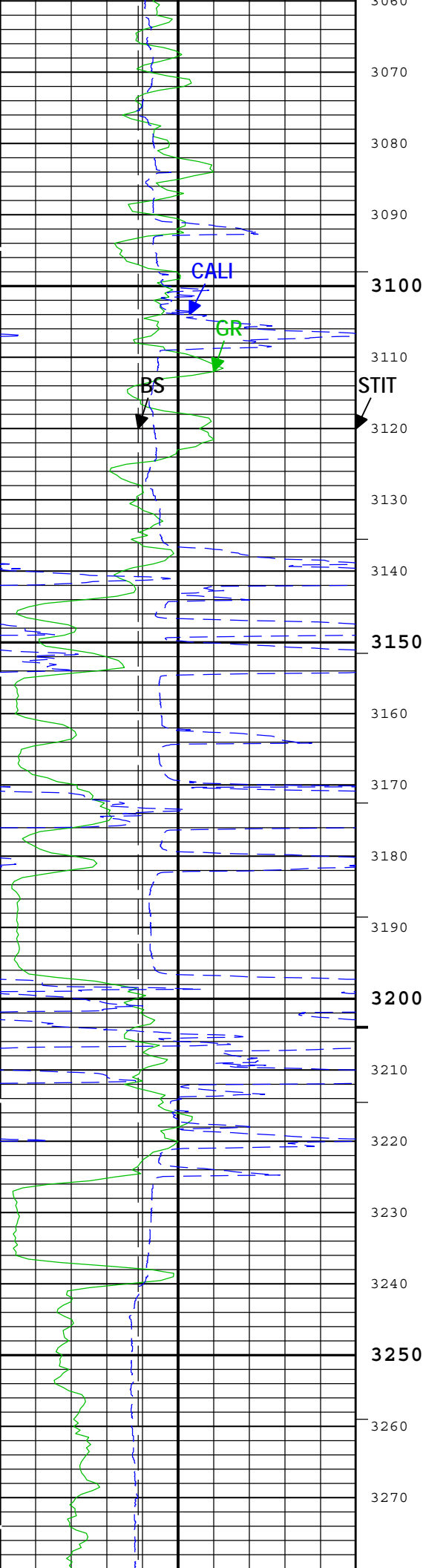


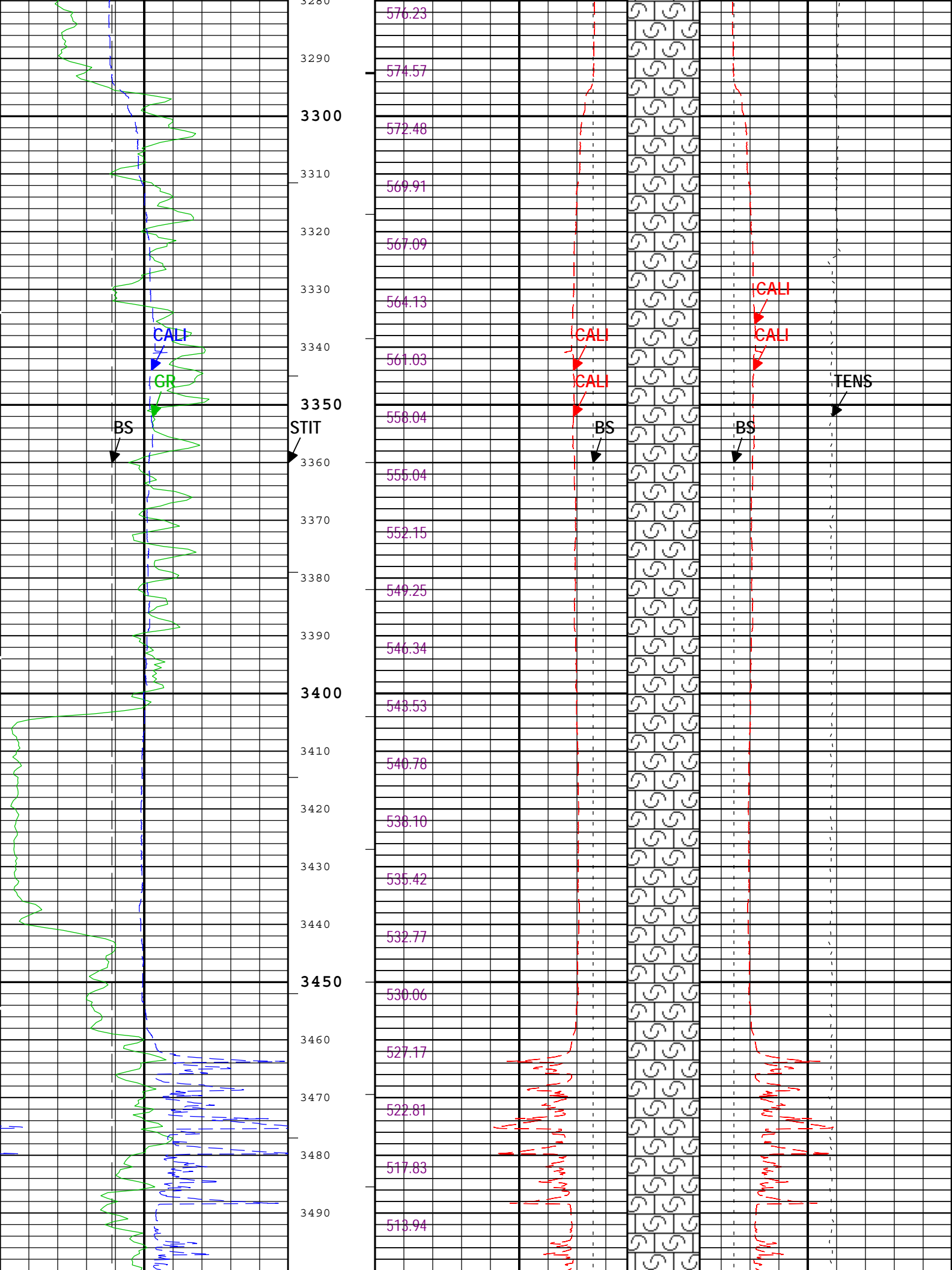


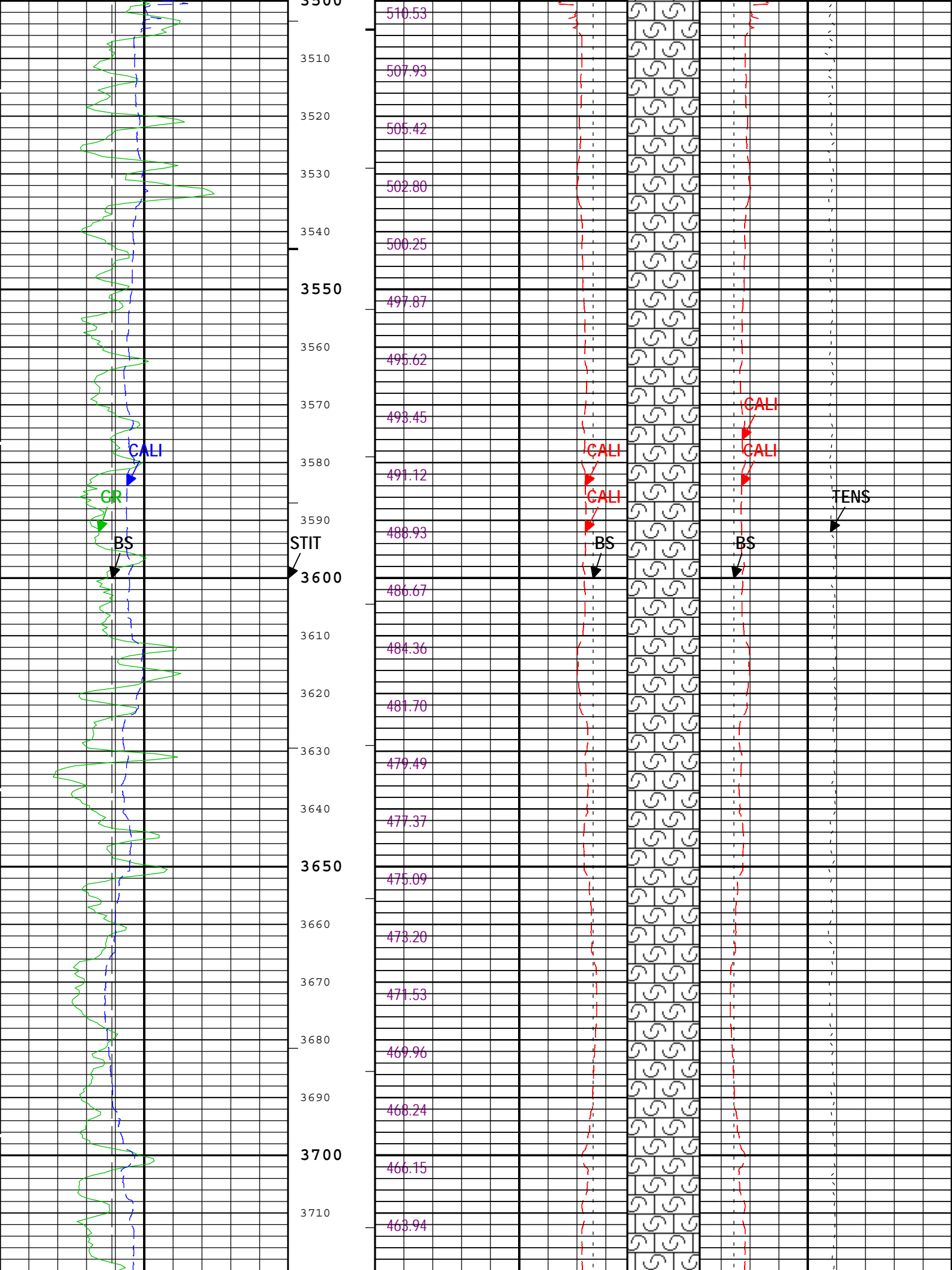


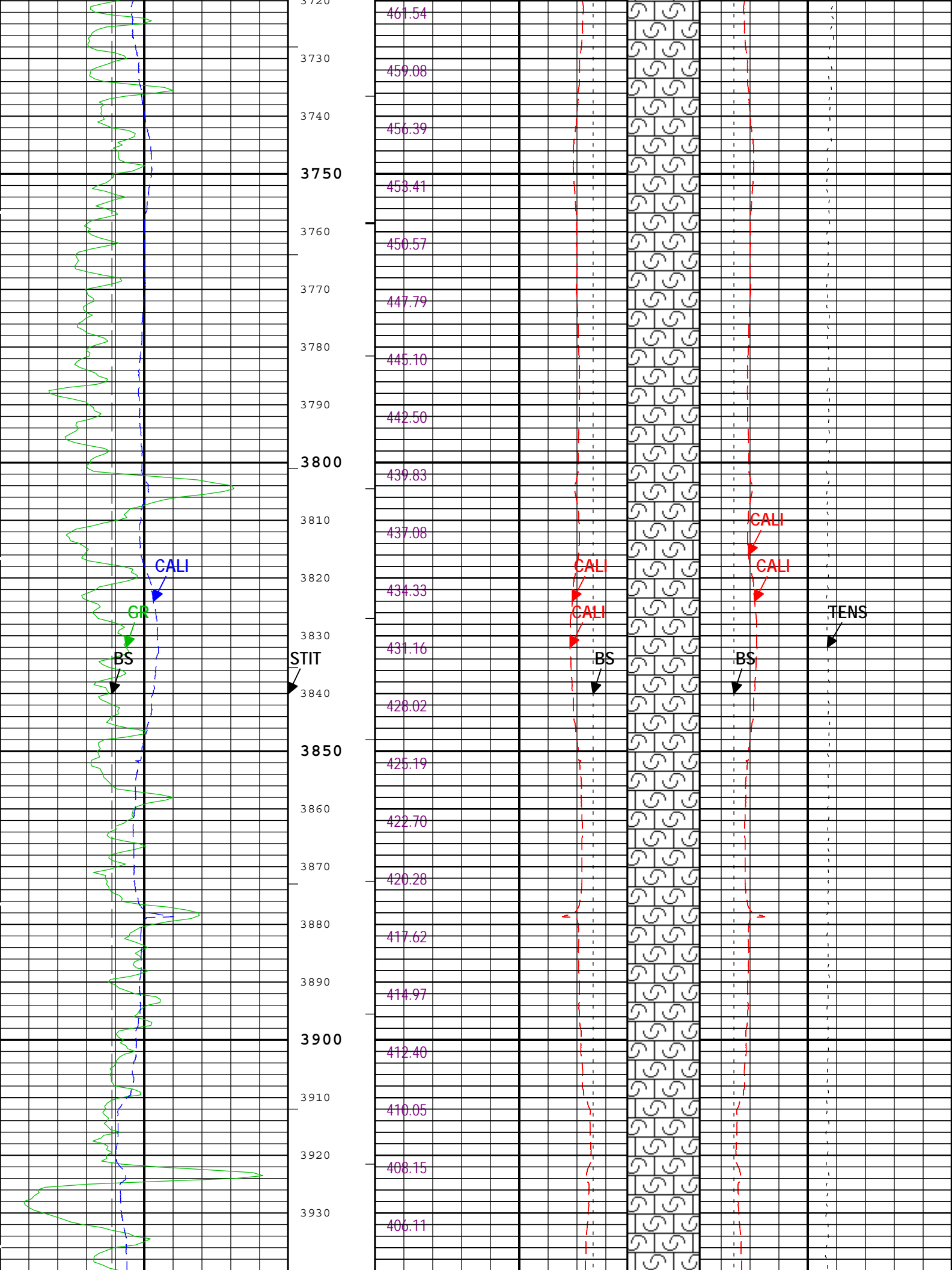


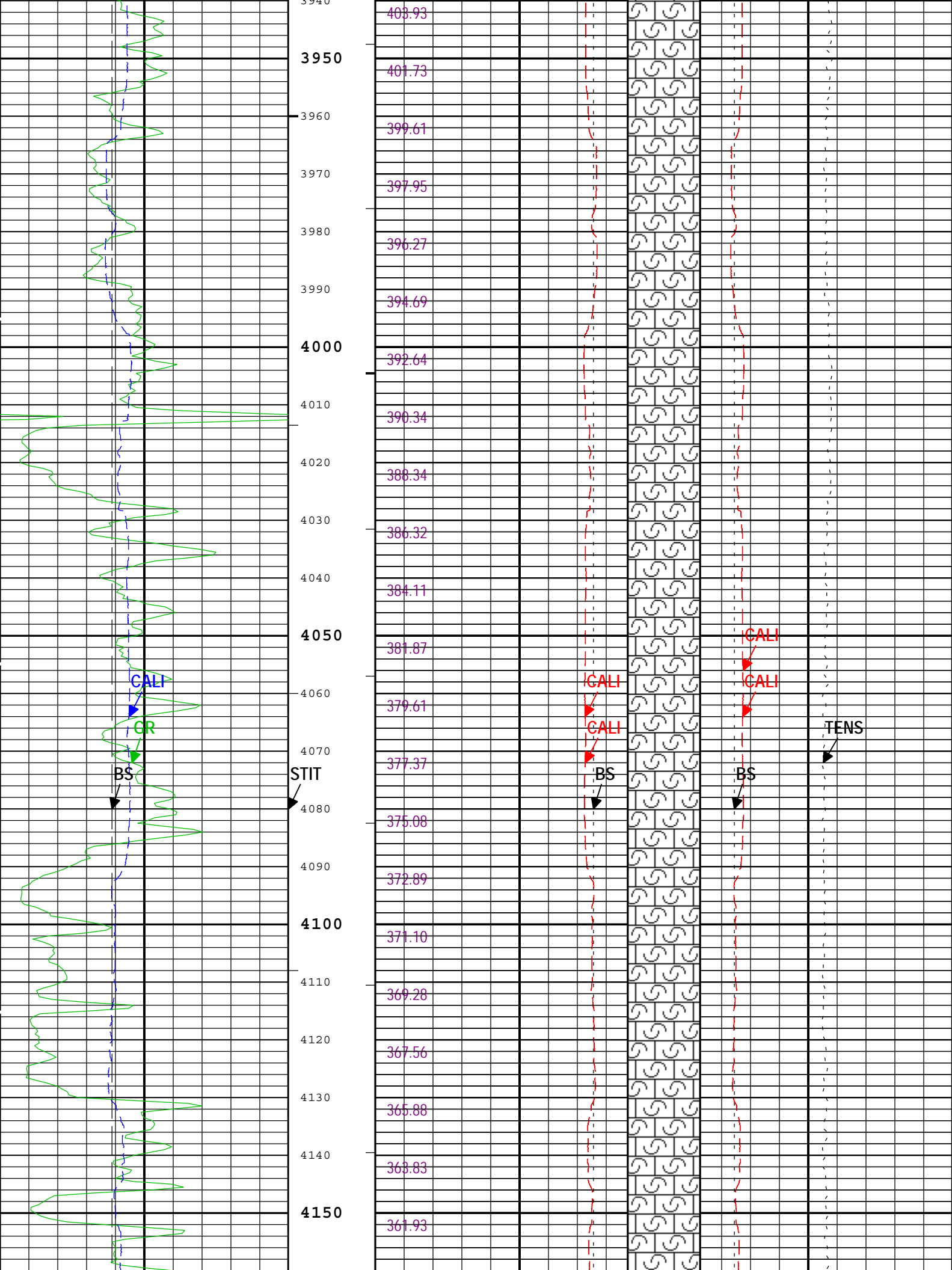


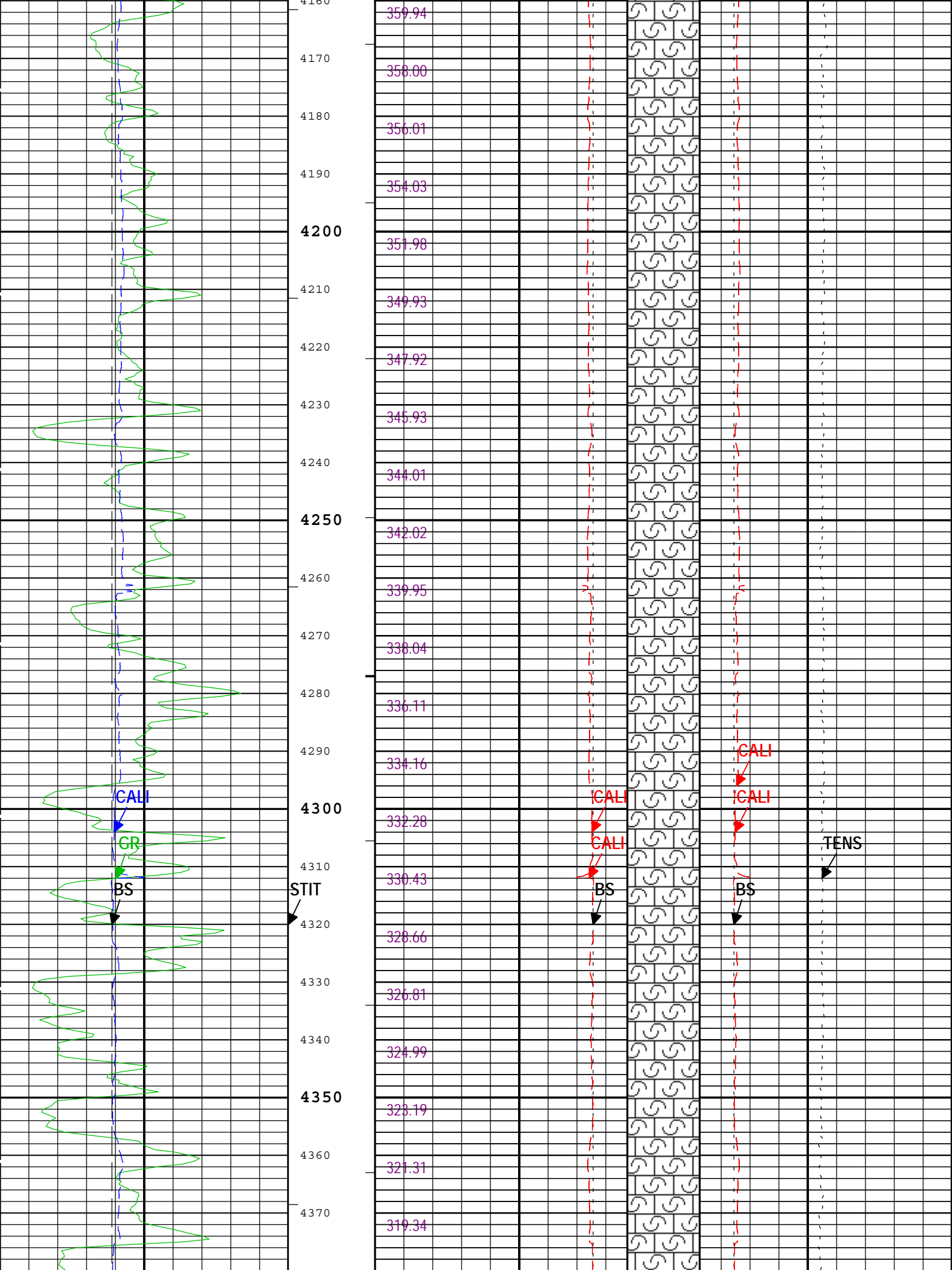


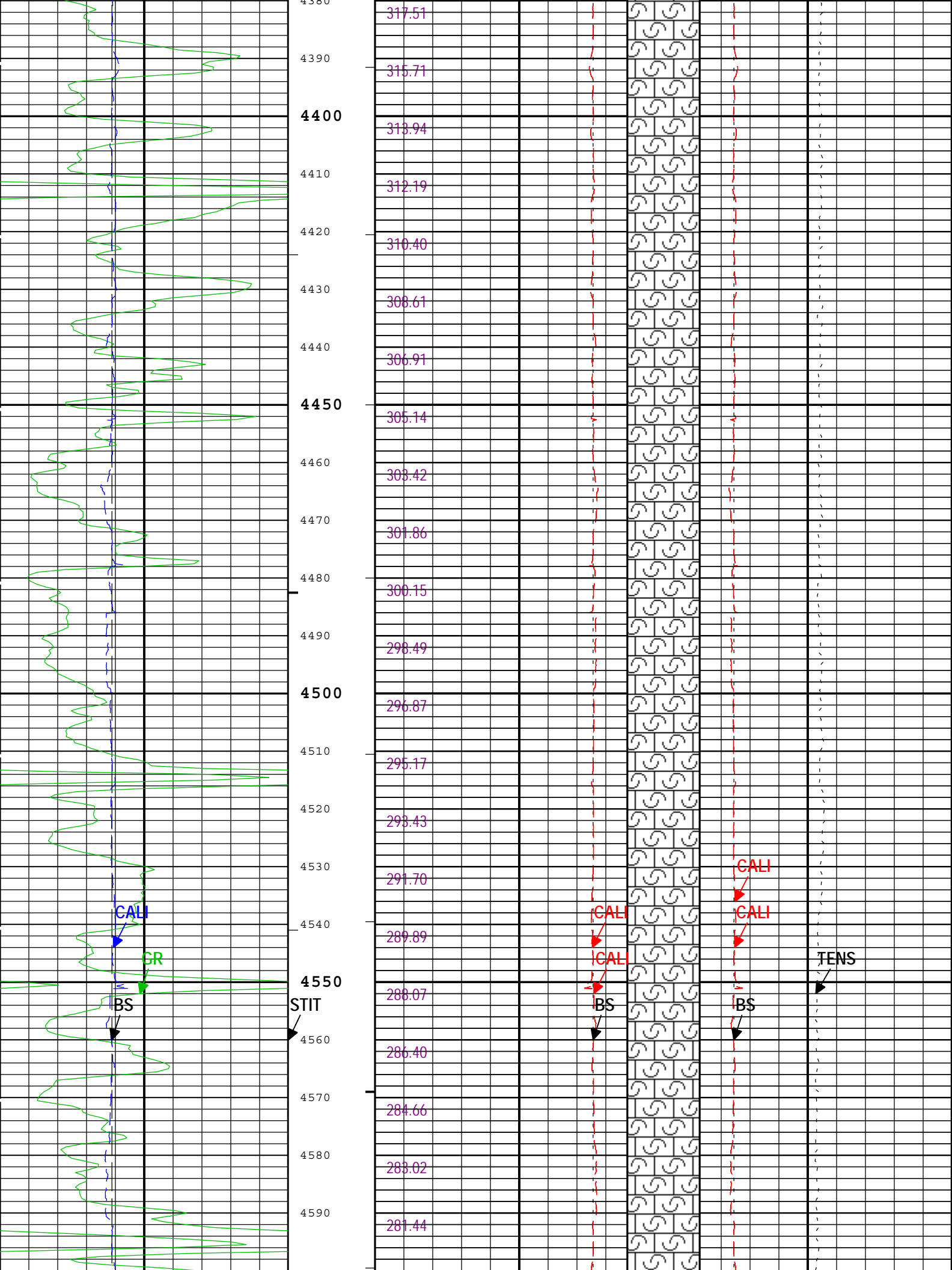


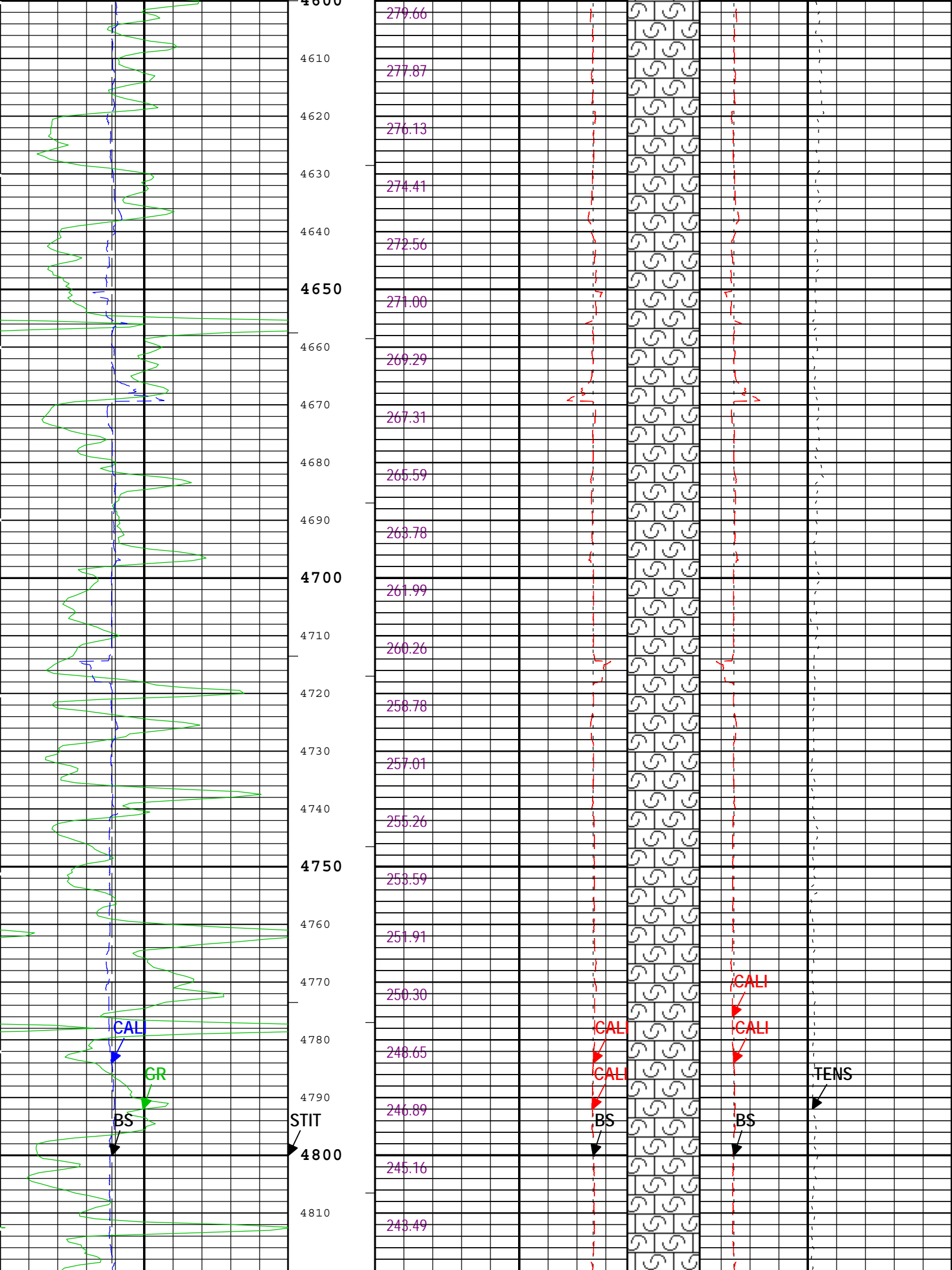


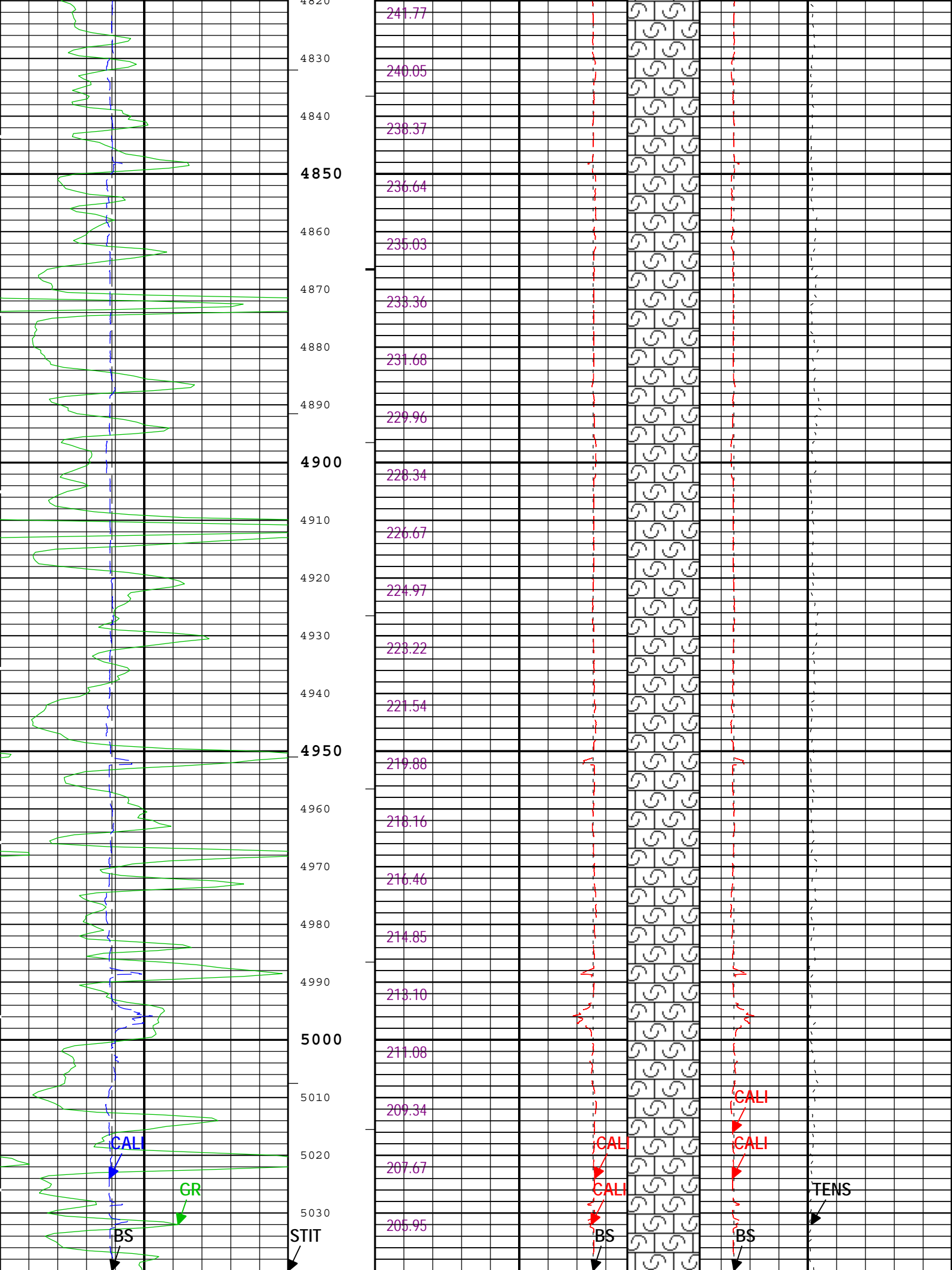


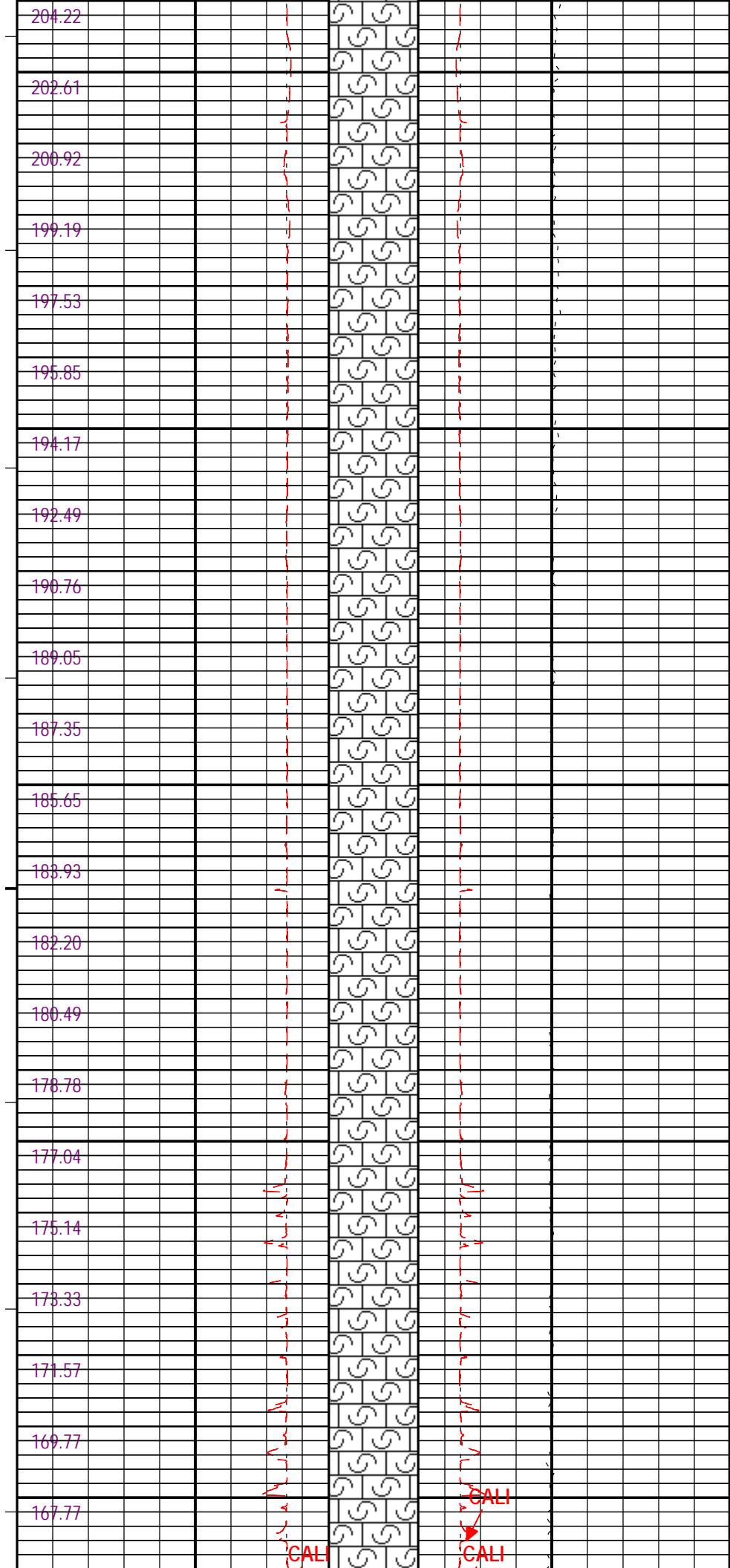
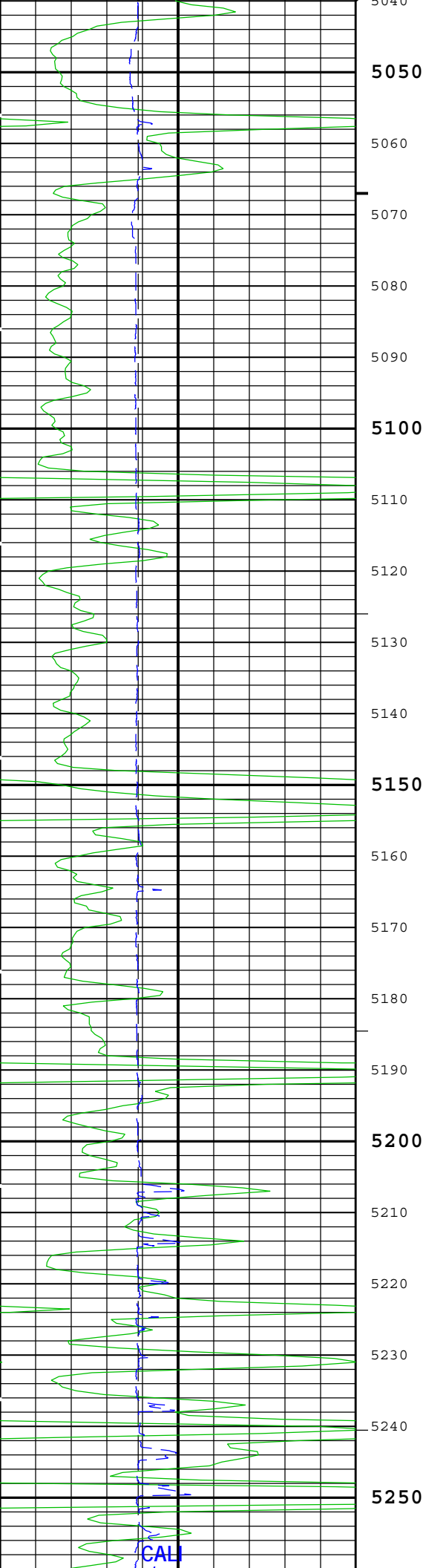


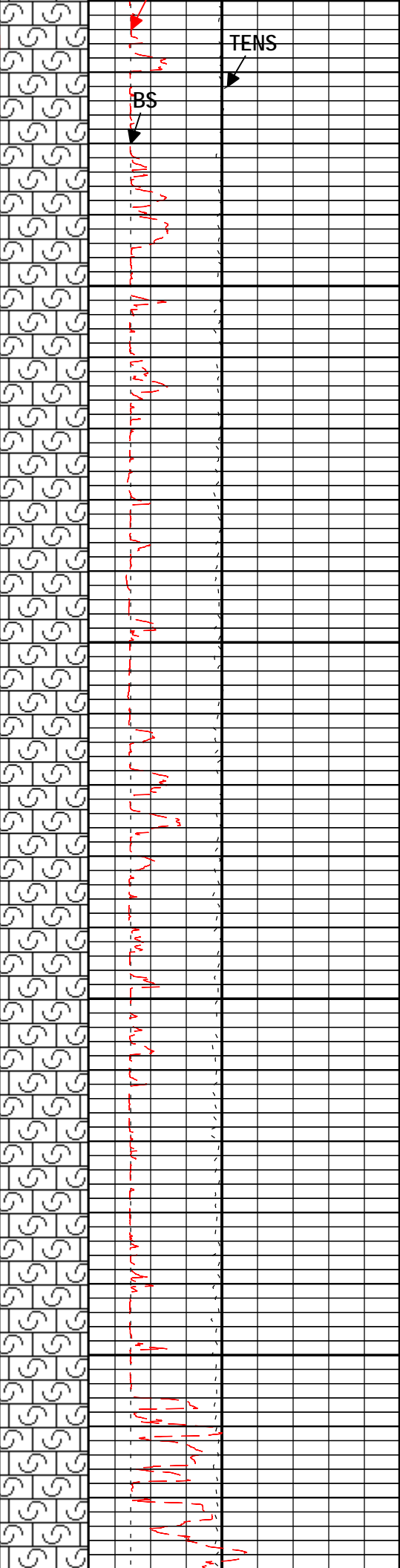
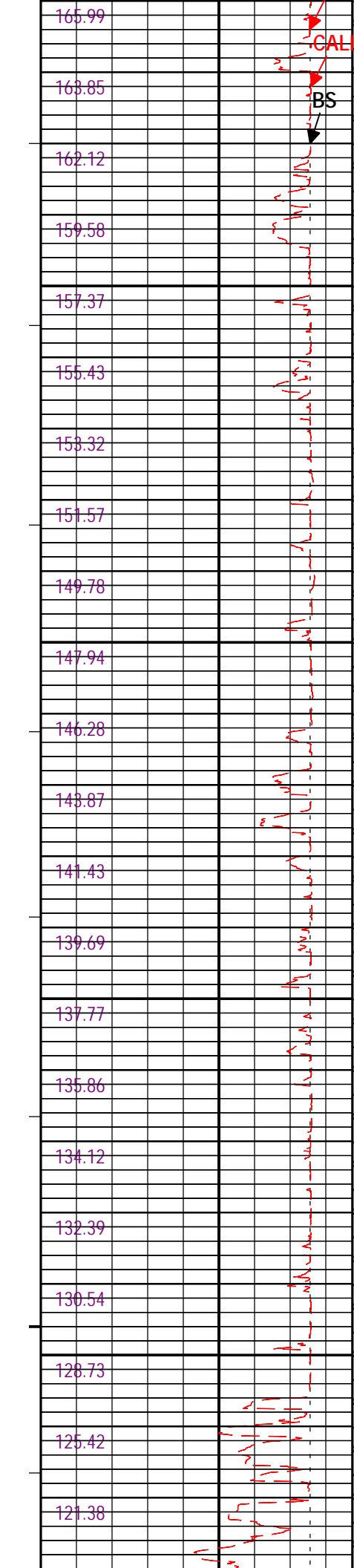
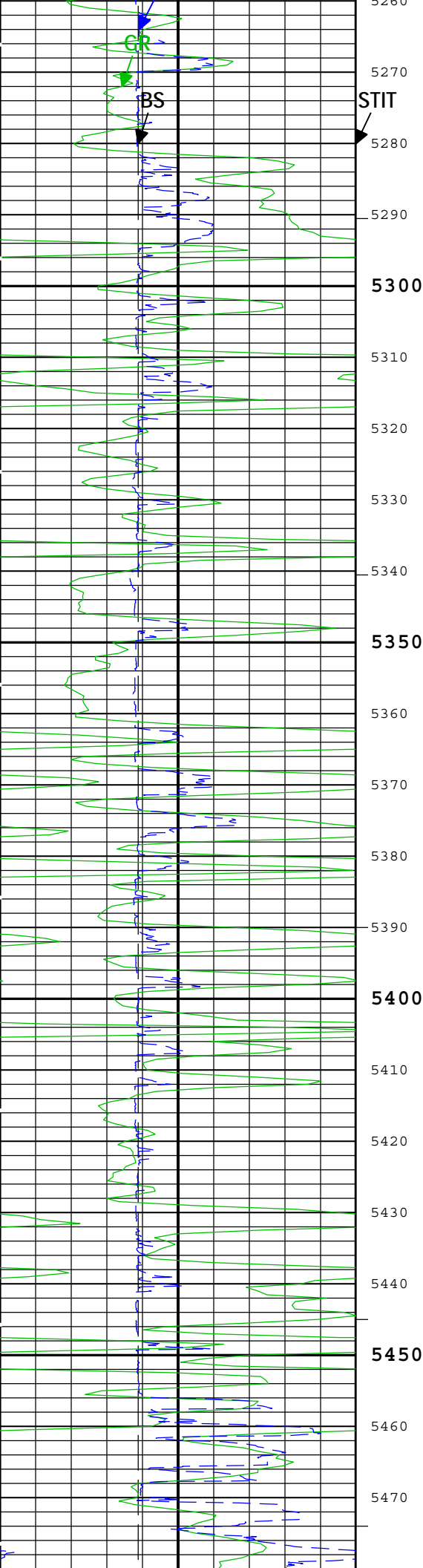


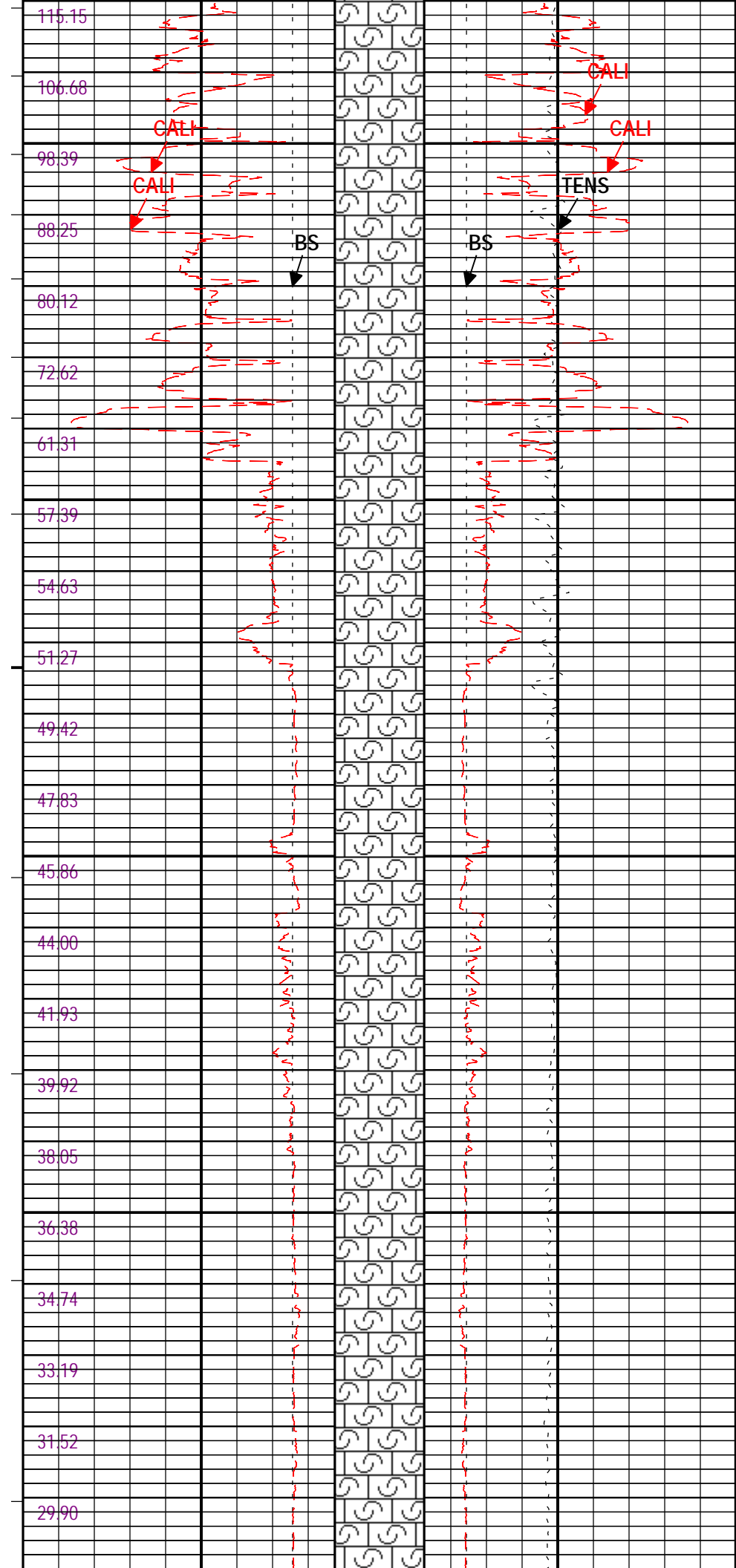
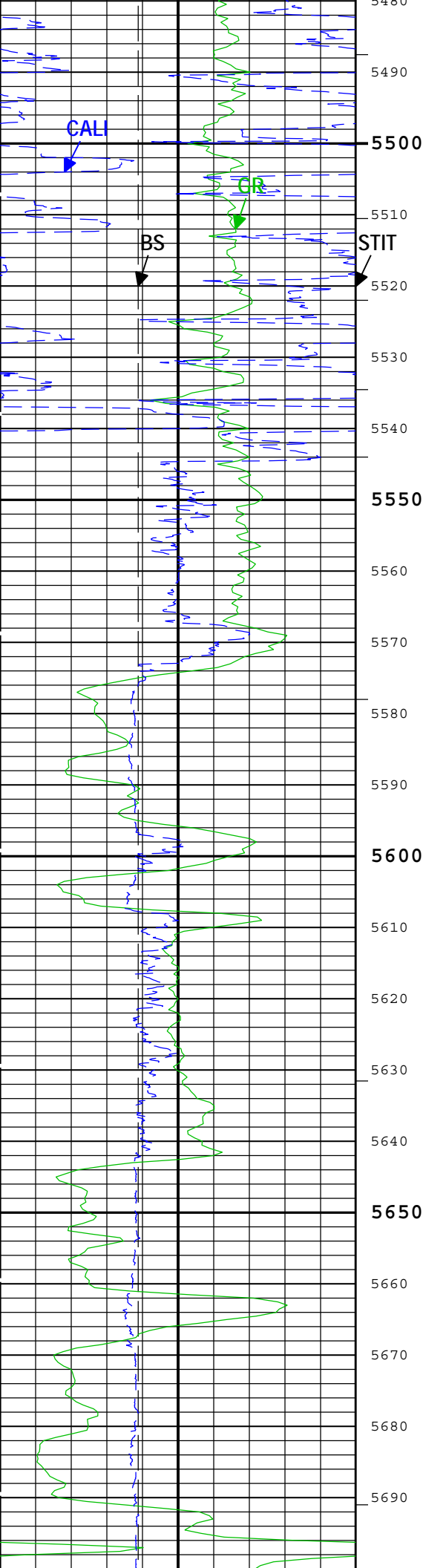


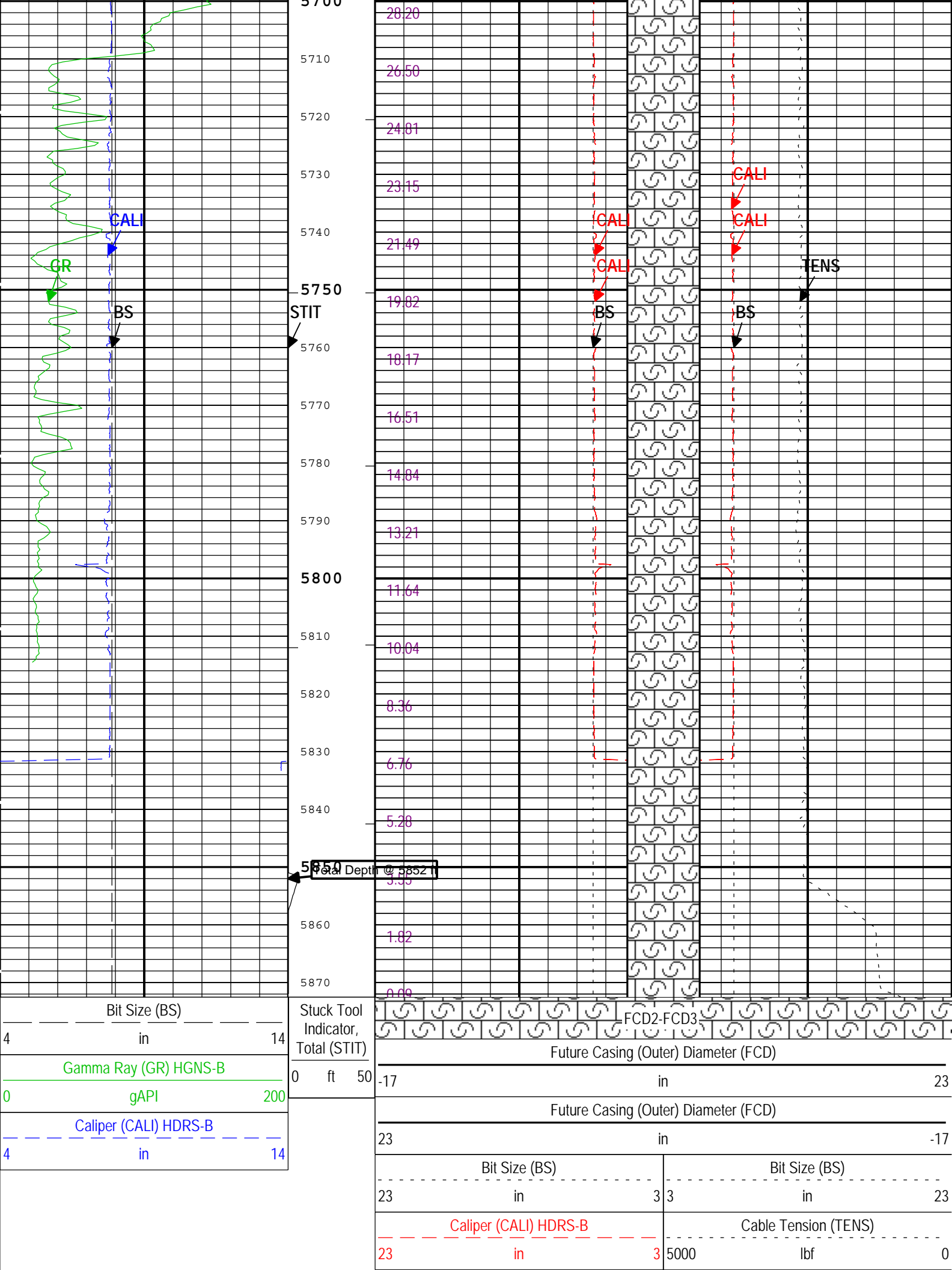












| | | | | | |
|---|----|-----------------------|-----------------------|-----------------------|----|
| | | Caliper (CALI) HDRS-B | | Caliper (CALI) HDRS-B | |
| 23 | in | 3 | 3 | in | 23 |
| Integrated Cement Volume (ICV) ft3 | | | Caliper (CALI) HDRS-B | | |
| | | | 3 | in | 23 |
| <div> <div>ICV - Integrated Cement Volume every 10.00 (ft3)</div> <div> <div>IHV - Integrated Hole Volume every 10.00 (ft3)</div> <div>ICV - Integrated Cement Volume every 100.00 (ft3)</div> </div> <div> <div>TIME_1900 - Time Marked every 60.00 (s)</div> <div>IHV - Integrated Hole Volume every 100.00 (ft3)</div> </div> </div> | | | | | |
| Description: Format: Log (Noble East Caliper) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 20-Oct-2012 22:23:10 | | | | | |

| Channel Processing Parameters | | | | |
|-------------------------------|--|-----------------|-------------|---------|
| Parameter | Description | Tool | Value | Unit |
| BARI | Barite Mud Presence Flag | Borehole | No | |
| BHS | Borehole Status (Open or Cased Hole) | Borehole | Open | |
| BS | Bit Size | WLSESSION | Depth Zoned | in |
| CALI_SHIFT | CALI Supplementary Offset | HDRS-B | 0.177 | in |
| CBLO | Casing Bottom (Logger) | WLSESSION | 427 | ft |
| CDEN | Cement Density | HGNS-B | 2 | g/cm3 |
| CSODDRL | Casing Outer Diameter - Zoned along driller depths | WLSESSION | 8.625 | in |
| DC_MODE | Depth Correction Mode | DepthCorrection | Real-time | |
| DFD | Drilling Fluid Density | Borehole | 9.2 | lbm/gal |
| FCD | Future Casing (Outer) Diameter | WLSESSION | 5.5 | in |
| GCSE_DOWN_PASS | Generalized Caliper Selection for WL Log Down Passes | Borehole | BS | |
| GCSE_UP_PASS | Generalized Caliper Selection for WL Log Up Passes | Borehole | CALI | |
| SOCO | Standoff Correction Option | HGNS-B | Yes | |
| TD | Total Measured Depth | Borehole | 5858 | ft |

| Depth Zone Parameters | | | |
|-----------------------|-------|--------------|-------------|
| Parameter | Value | Start (ft) | Stop (ft) |
| BS | 0 | 400 | 427 |
| BS | 7.875 | 427 | 5872.5 |
| All depth are actual. | | | |

| Tool Control Parameters | | | | |
|-------------------------|----------------------------------|-----------|-------|------|
| Parameter | Description | Tool | Value | Unit |
| MAX_LOG_SPEED | Toolstring Maximum Logging Speed | WLSESSION | 1800 | ft/h |

| | | |
|----------|---------------------|--------------|
| Company: | Vecta Oil & Gas Ltd | Schlumberger |
| Well: | Snowmass 44-32 | |
| Field: | Wildcat | |
| County: | Cheyenne | |
| State: | Colorado | |

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| Platform Express |
|------------------|

| Caliper |
|---------------|
| Cement Volume |