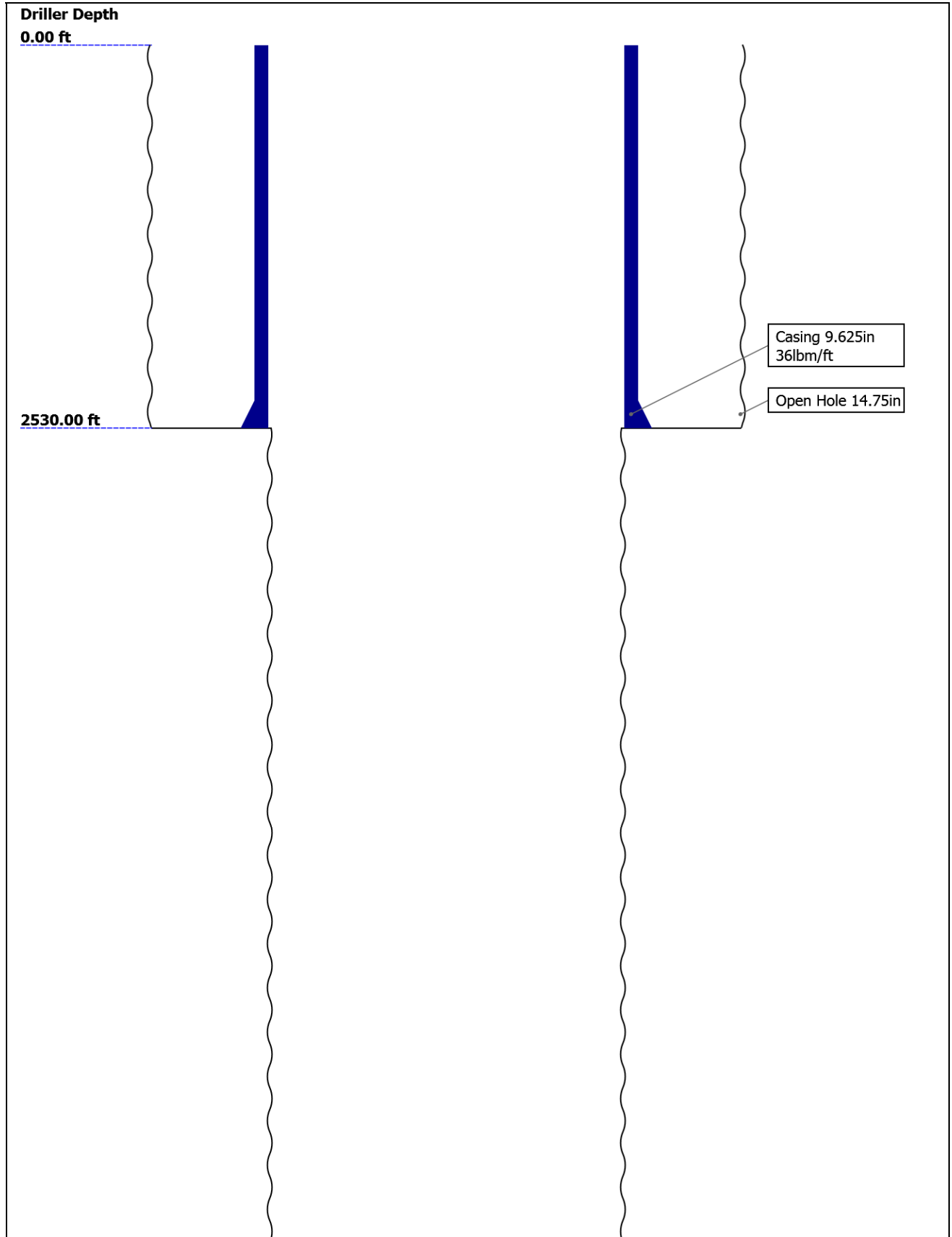




## Well Sketch





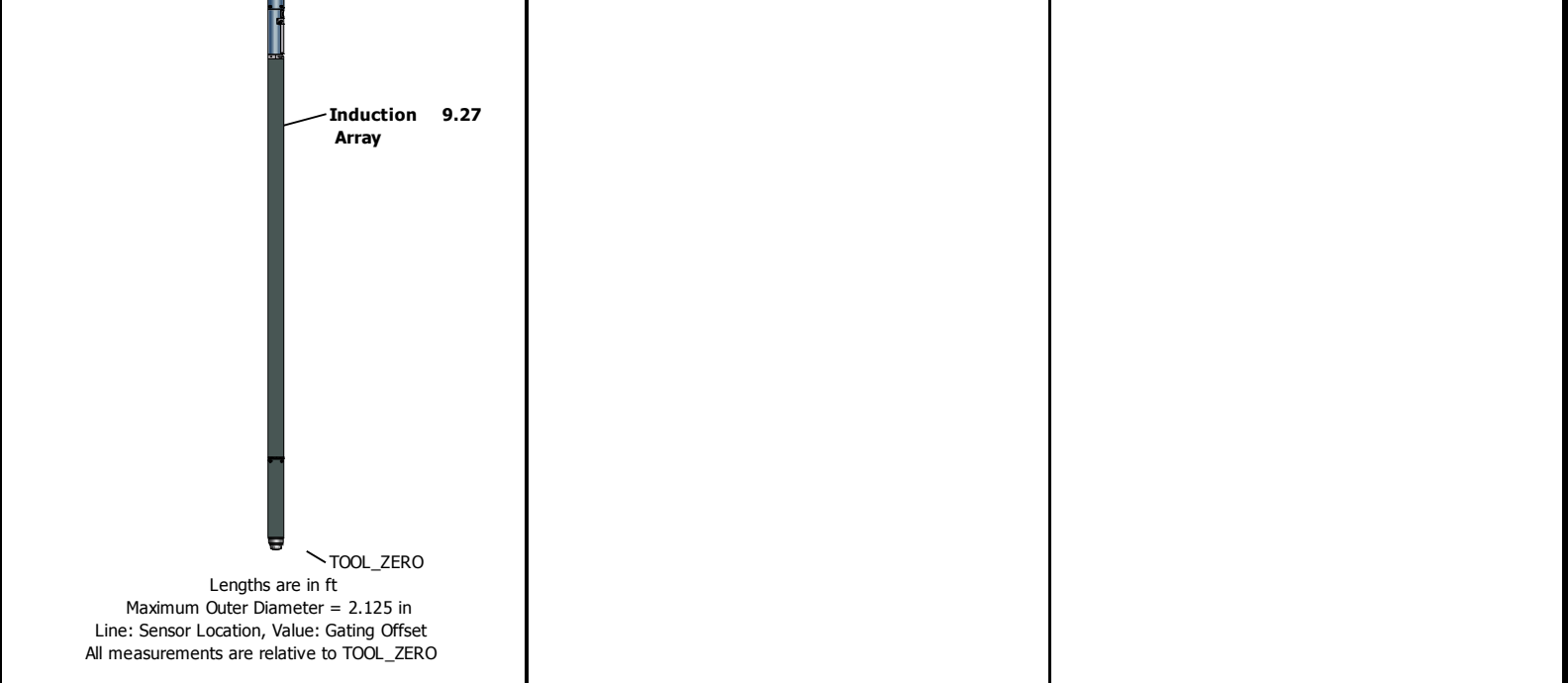
## Borehole Size/Casing/Tubing Record

|                       |       |       |  |  |  |  |
|-----------------------|-------|-------|--|--|--|--|
| Bit                   |       |       |  |  |  |  |
| Bit Size ( in )       | 14.75 | 8.75  |  |  |  |  |
| Top Driller ( ft )    | 0     | 2530  |  |  |  |  |
| Top Logger ( ft )     | 0     | 2530  |  |  |  |  |
| Bottom Driller ( ft ) | 2530  | 10382 |  |  |  |  |
| Bottom Logger ( ft )  | 2530  | 10382 |  |  |  |  |
| Casing                |       |       |  |  |  |  |
| Size ( in )           | 9.625 |       |  |  |  |  |
| Weight ( lbm/ft )     | 36    |       |  |  |  |  |
| Inner Diameter ( in ) | 8.921 |       |  |  |  |  |
| Grade                 | N/A   |       |  |  |  |  |
| Top Driller ( ft )    | 0     |       |  |  |  |  |
| Top Logger ( ft )     | 0     |       |  |  |  |  |
| Bottom Driller ( ft ) | 2530  |       |  |  |  |  |
| Bottom Logger ( ft )  | 2530  |       |  |  |  |  |

## Remarks and Equipment Summary

| TB-TCOM: Toolstring |        |             |        | TB-TCOM: Remarks                     |  |
|---------------------|--------|-------------|--------|--------------------------------------|--|
| Equip name          | Length | MP name     | Offset | Thank you for choosing Schlumberger! |  |
| PEH-EFA             | 71.72  |             |        | Log run for formation evaluation     |  |
|                     |        |             |        | Log run on LS matrix, 2.71g/cc       |  |
| AH-317-TB           | 69.36  |             |        | TB Level 3                           |  |
| TBCCL-A:3           | 68.29  |             |        | Depth Correlated to MWD GR           |  |
| TBCCL-A:33          |        |             |        | Crew: Doug Robinson                  |  |
| TBDOT-A             | 66.58  | CCL<br>PS58 | 66.58  |                                      |  |
|                     |        |             |        |                                      |  |
| TBHO-AA             | 62.9   |             |        |                                      |  |
|                     |        |             |        |                                      |  |
| AH-10               | 57.91  |             |        |                                      |  |

| SAH-TB          | 57.16 | 3   |
|-----------------|-------|---|
| TBSB-BA[2]:PS54 | 54.82 |   |
| TBSB-BA:PS38    | 48.7  | Status 48.7   |
| TMG-A:69        | 42.57 | Status 42.57<br>Gamma-Ray 41.78                     |
| TILE-AB         | 36.44 | Status 35 36.44                                     |
| TBN-B:44        | 31.94 | Neutron Porosity 29.64                              |
| TBD-B:28        | 27.18 |   |
| TBD-B:28        |       |   |
| GGLS-FZ:3398    |       |   |
|                 |       | Density L 18.65<br>Caliper 18.53<br>Density S 18.26 |
| KAH-TB          | 16.7  | 59  |
| TBIT-A:25       | 15.28 |   |
| TBIT-A:25       |       |   |



| Depth Summary                    |                       |                       |  |
|----------------------------------|-----------------------|-----------------------|--|
|                                  |                       | TB-TCOM               |  |
| 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              |                       |  |
| Rig Type                         | H&P                   |                       |  |
| TB-TCOM:Depth Control Parameters |                       | Depth Control Remarks |  |
| Log Sequence                     | First Log In the Well |                       |  |
| Rig Up Length At Surface         |                       |                       |  |
| Rig Up Length At Bottom          |                       |                       |  |
| Rig Up Length Correction         |                       |                       |  |
| Stretch Correction               |                       |                       |  |
| Tool Zero Check At Surface       |                       |                       |  |

## Integration Summary

| Output Channel(s) | Output Description       | Input Parameter   | Output Value | Unit |
|-------------------|--------------------------|-------------------|--------------|------|
| ICV               | Integrated Cement Volume | GCSE_UP_PASS, FCD | 1794.71      | ft3  |
| IHV               | Integrated Hole Volume   | GCSE_UP_PASS      | 2439.79      | ft3  |

## Software Version

| Acquisition System | Version         |
|--------------------|-----------------|
| Maxwell 2018 SP2   | 8.2.104493.3100 |

## Pass Summary

| Run Name | Pass Objective | Direction | Top        | Bottom      | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|------------|-------------|------------------------|------------------------|----------|-------------|-----------------------|
| TB-TCOM  | Log[1]:Up      | Up        | 4389.77 ft | 10343.57 ft | 02-Aug-2018 1:23:17 AM | 02-Aug-2018 6:30:07 AM | ON       | 0.00 ft     | Yes                   |

All depths are referenced to toolstring zero

## Log

Company:LARAMIE ENERGY LLC Well:CC 0697 03 17

TB-TCOM: Log[1]:Up:S031

Description: ThruBit\_TBI\_2ft\_RM Format: Log ( ThruBit\_TBI\_2ft\_RM ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Aug-2018 23:02:40

—IHV\_RM - Integrated Hole Volume every 10.00 (ft3)

—IHV\_RM - Integrated Hole Volume every 100.00 (ft3)

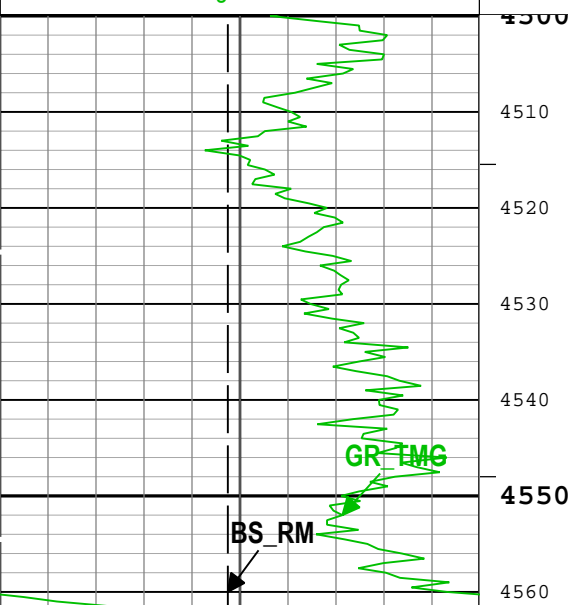
—ICV\_RM - Integrated Cement Volume every 10.00 (ft3)

—ICV\_RM - Integrated Cement Volume every 100.00 (ft3)

TIME\_1900 - Time Marked every 60.00 (s)

Bit Size (BS\_RM) RM  
4 in 14

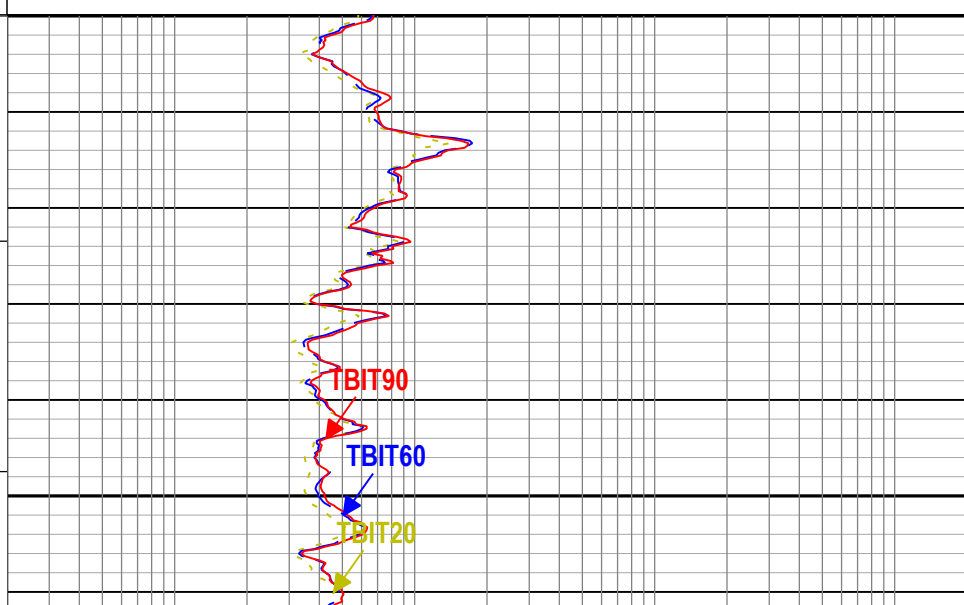
Calibrated Gamma Ray (GR\_TMG) TMG-A RM  
0 gAPI 150

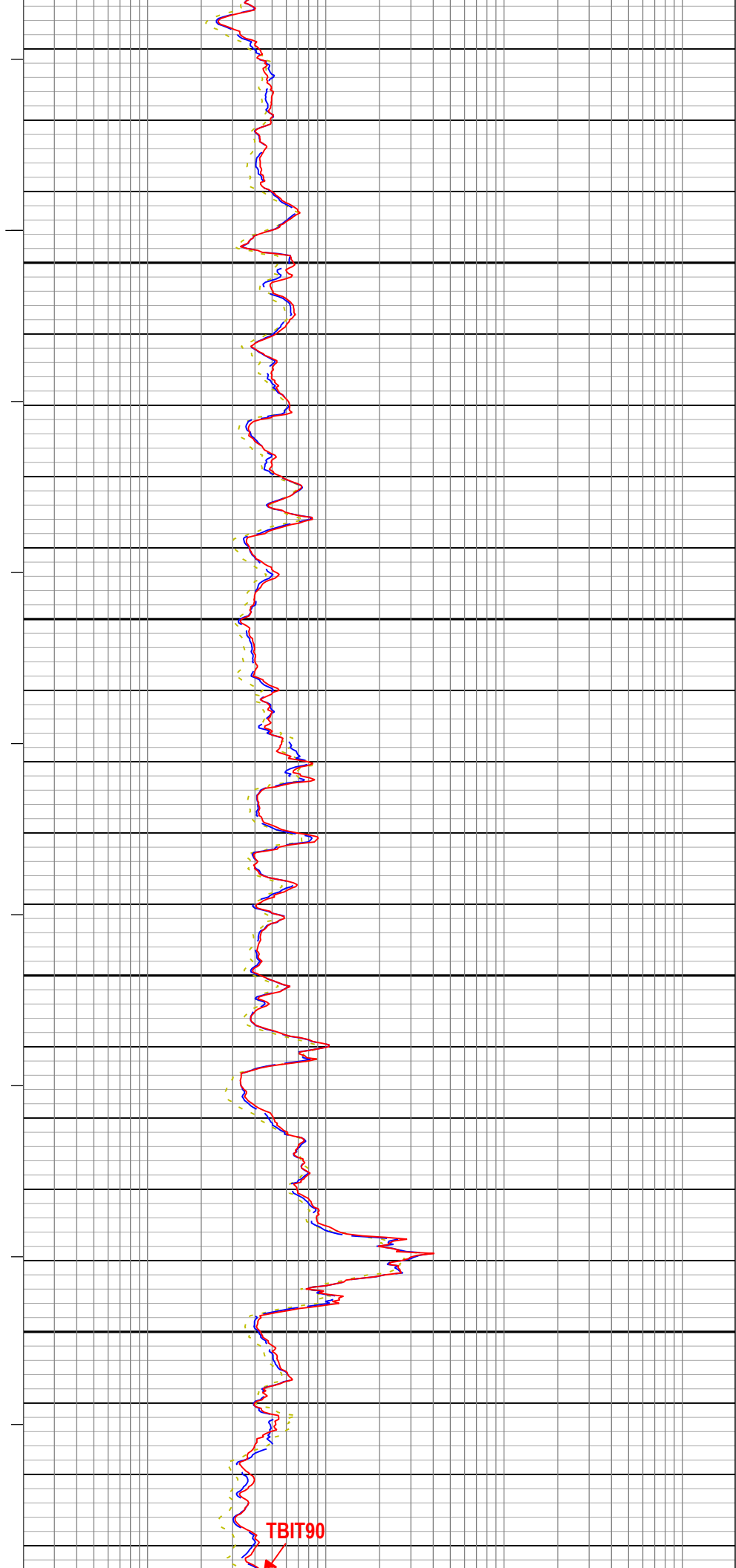
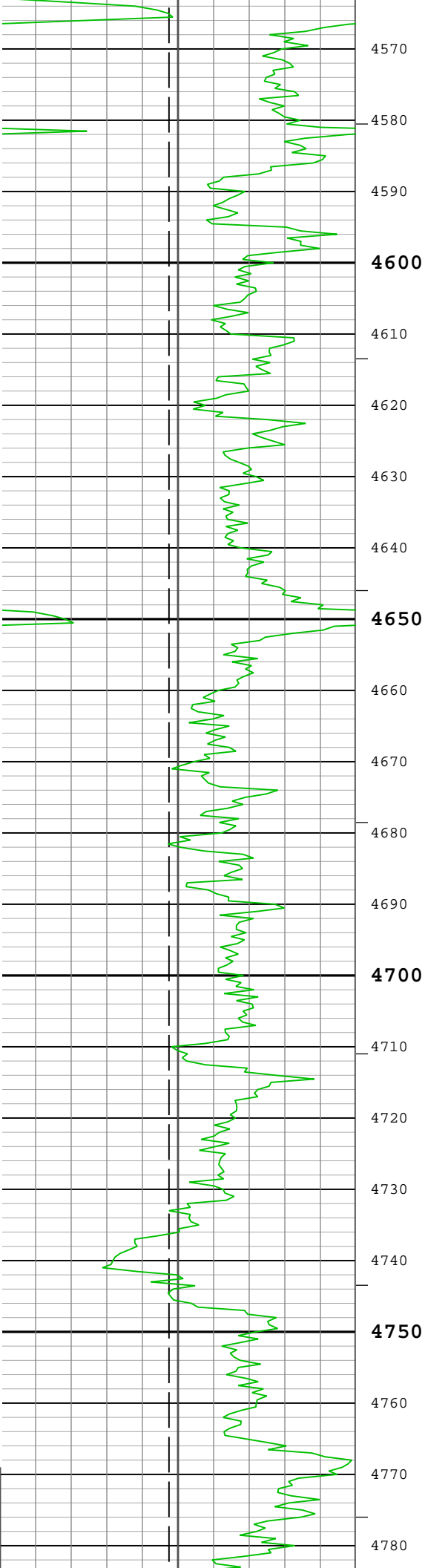


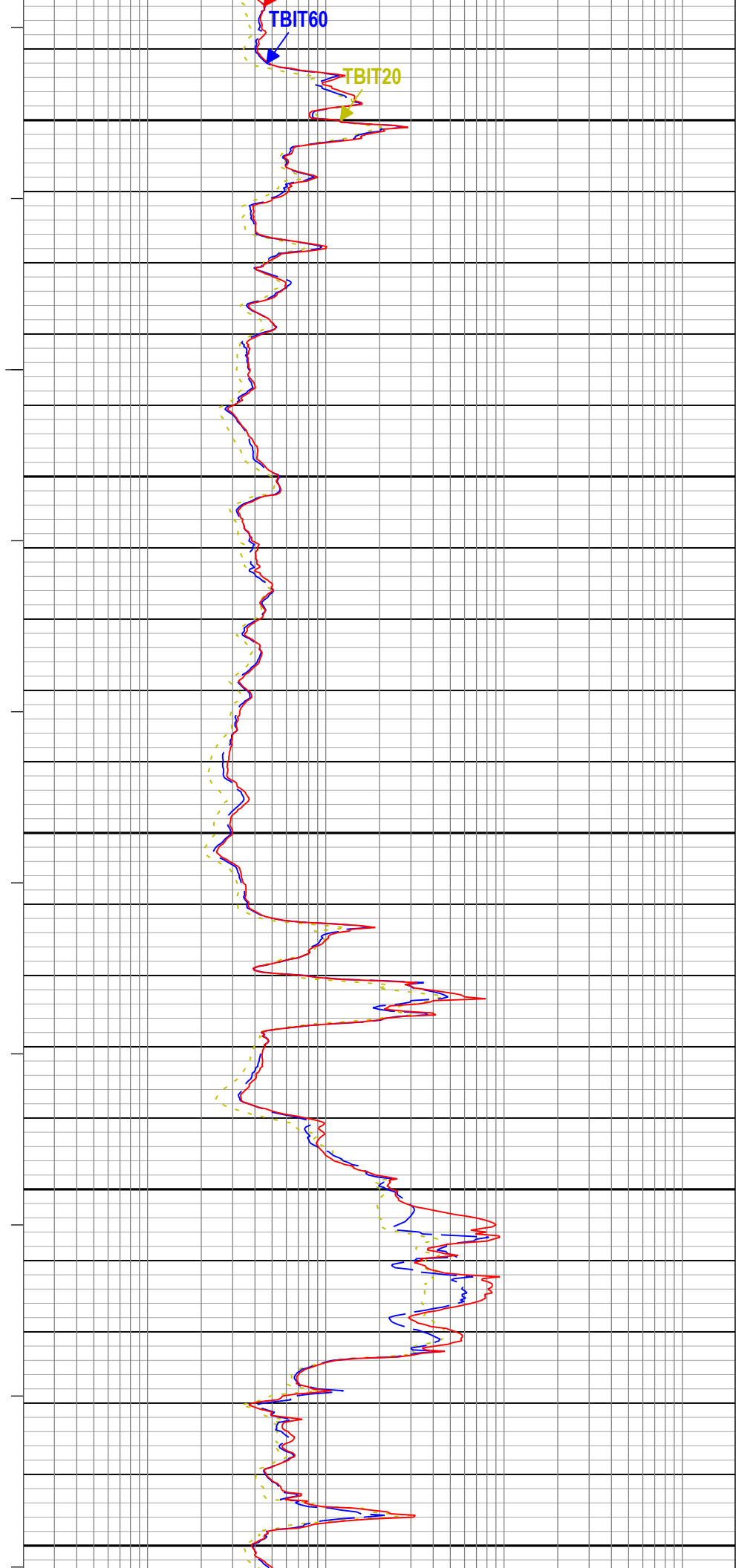
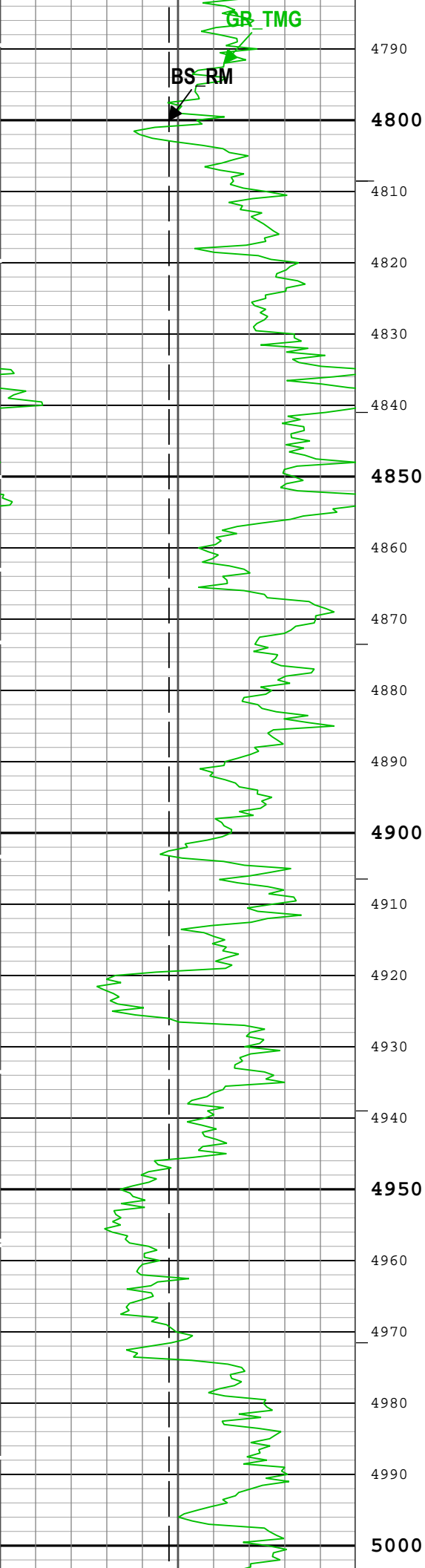
Thrubit Induction Array Two Foot Resistivity at 20 inch depth of investigation (TBIT20) TBIT-A RM  
0.2 ohm.m 2000

Thrubit Induction Array Two Foot Resistivity at 60 inch depth of investigation (TBIT60) TBIT-A RM  
0.2 ohm.m 2000

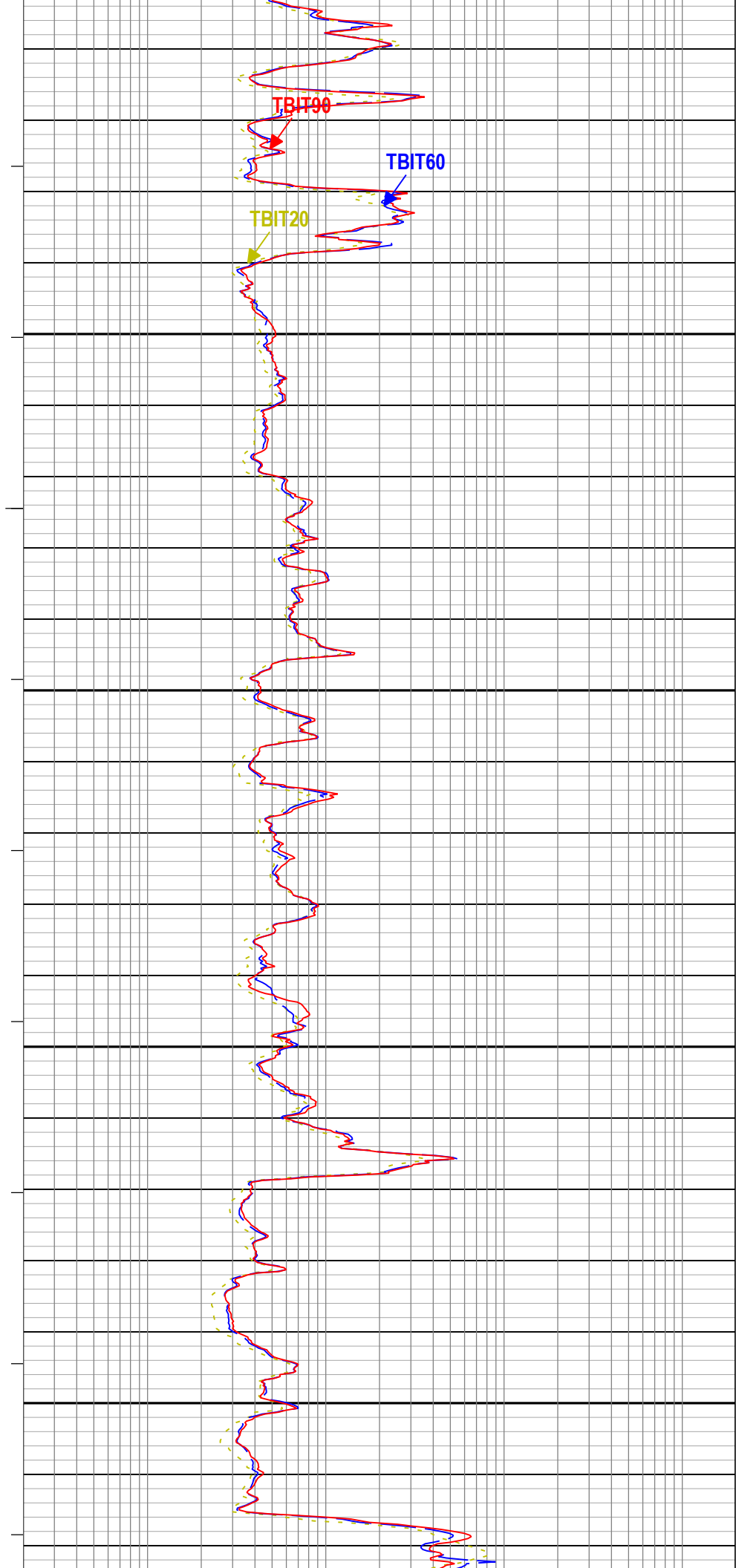
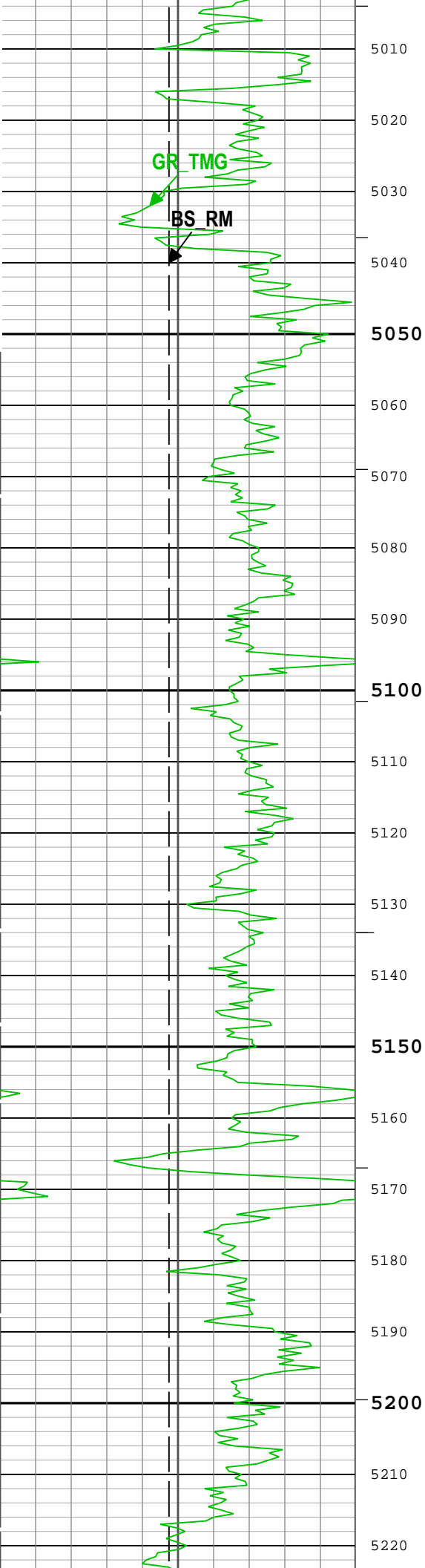
Thrubit Induction Array Two Foot Resistivity at 90 inch depth of investigation (TBIT90) TBIT-A RM  
0.2 ohm.m 2000

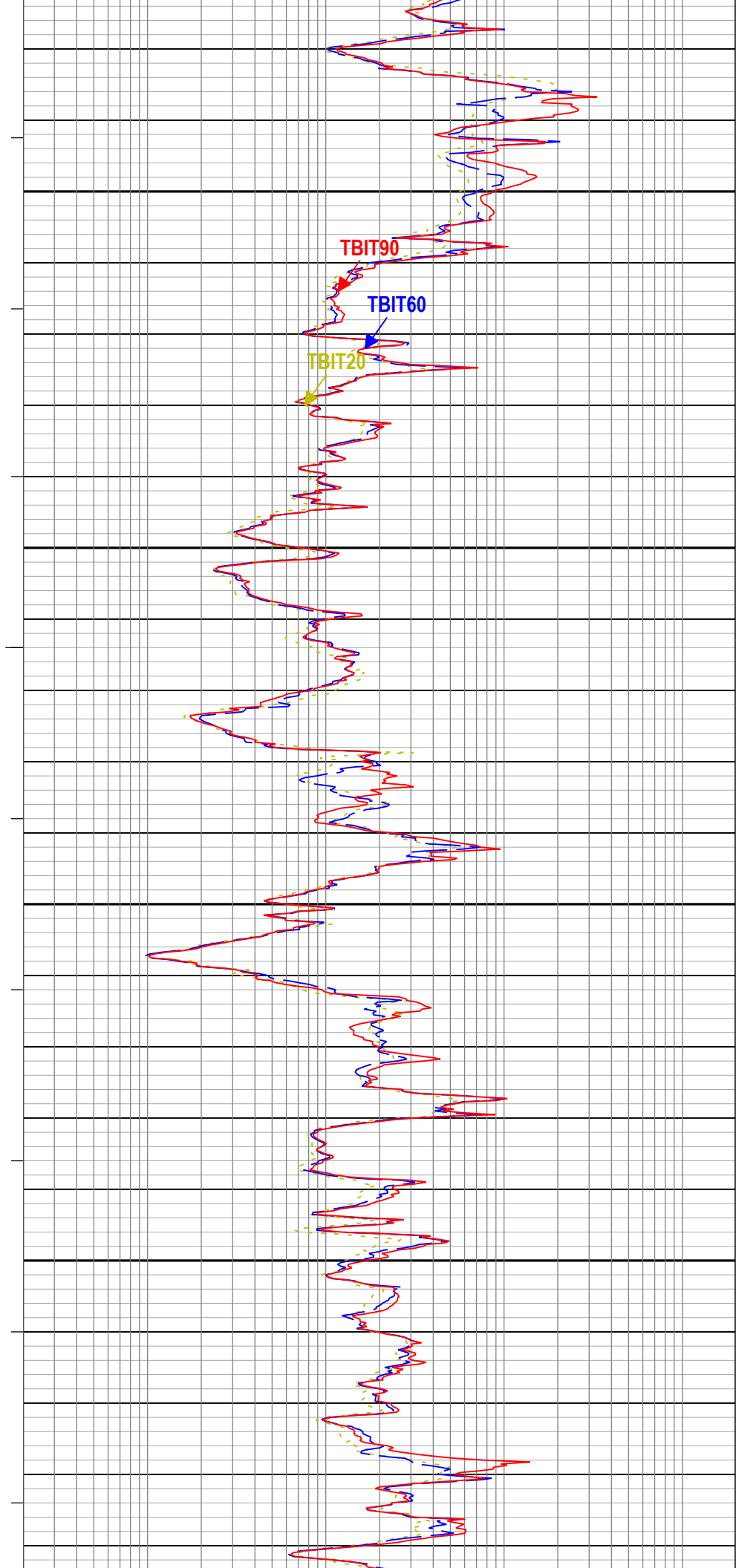
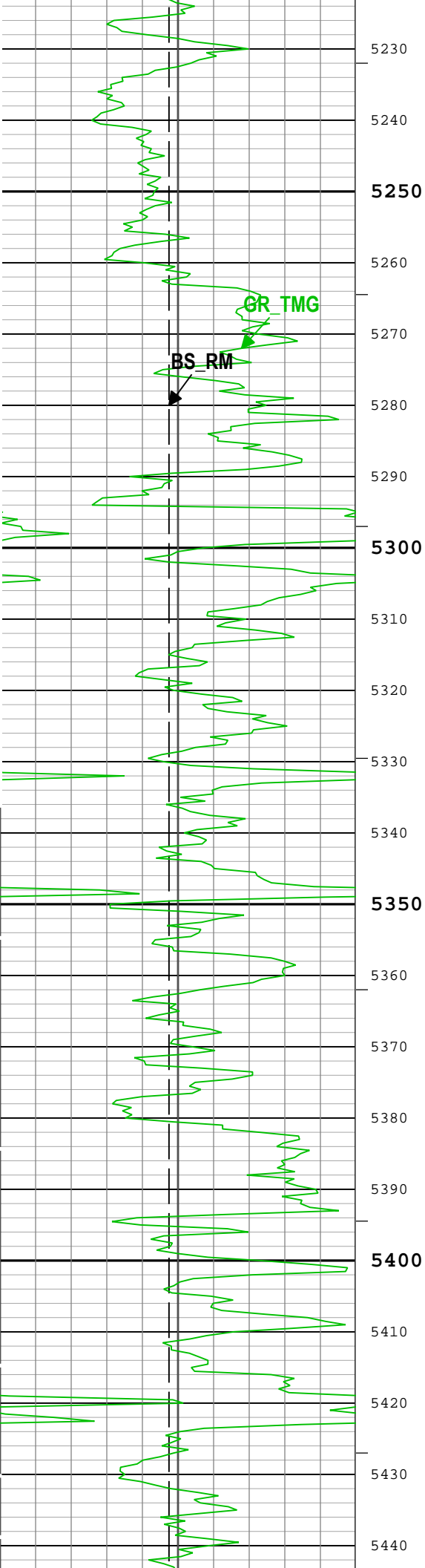


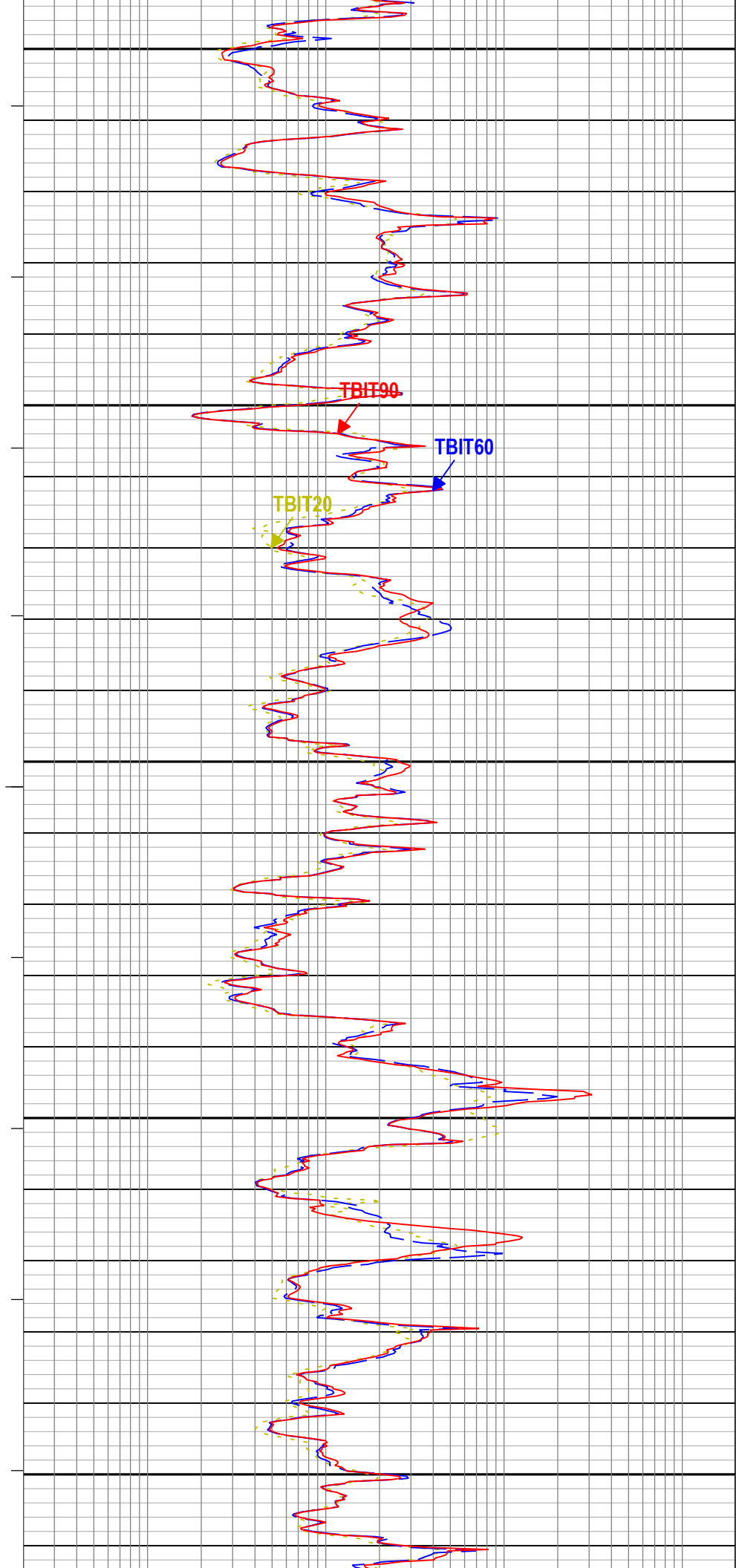
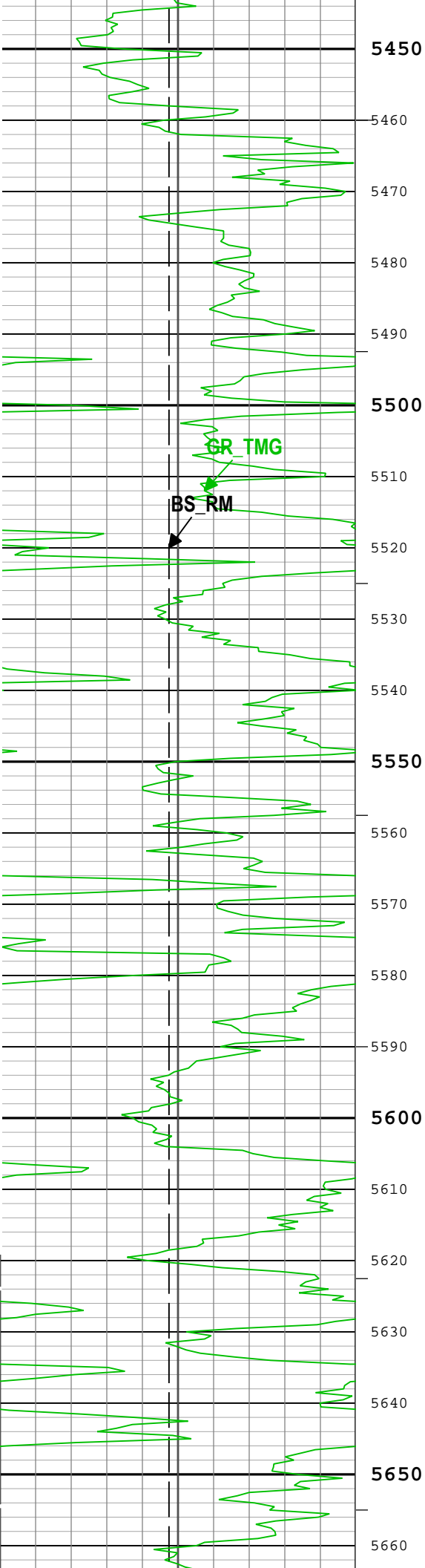


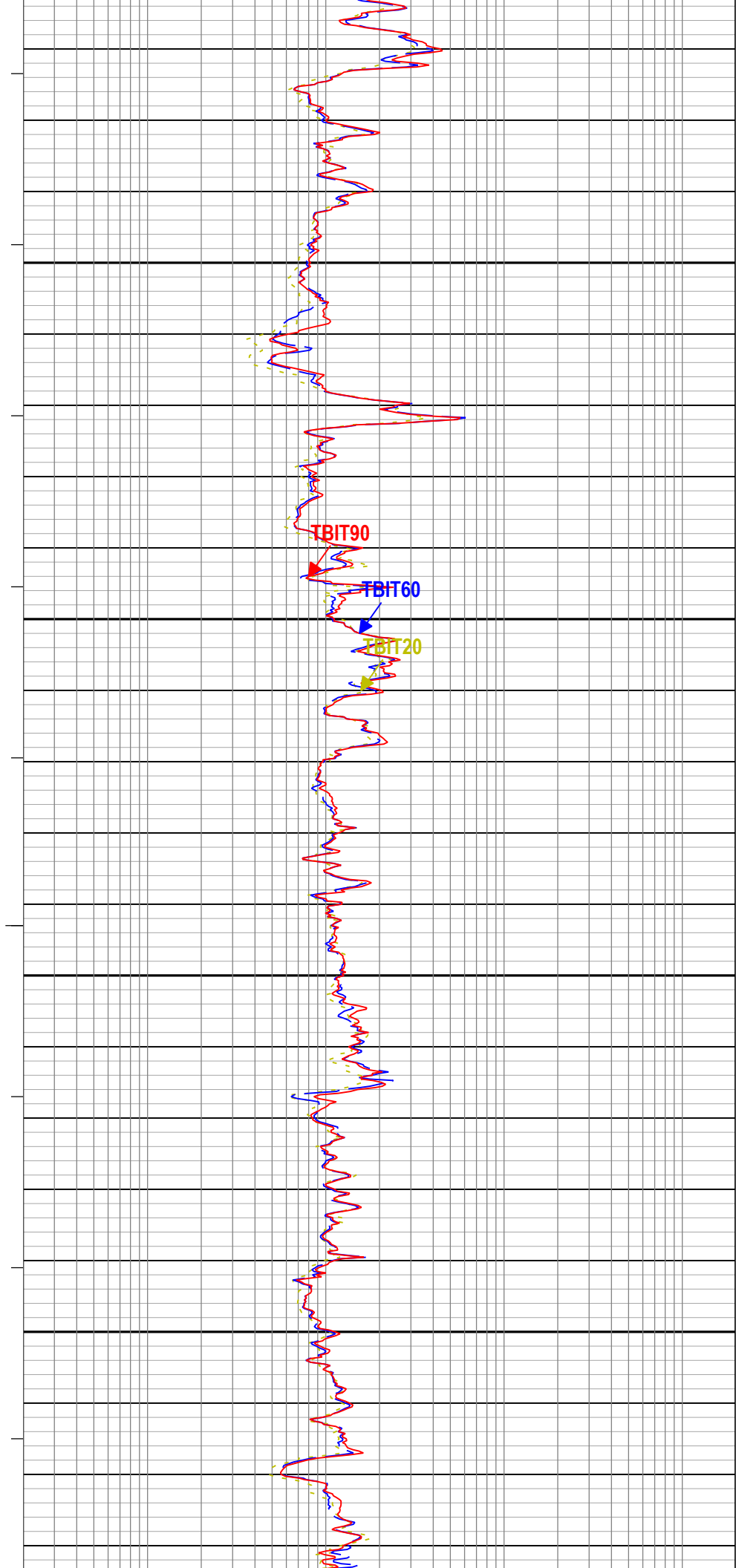
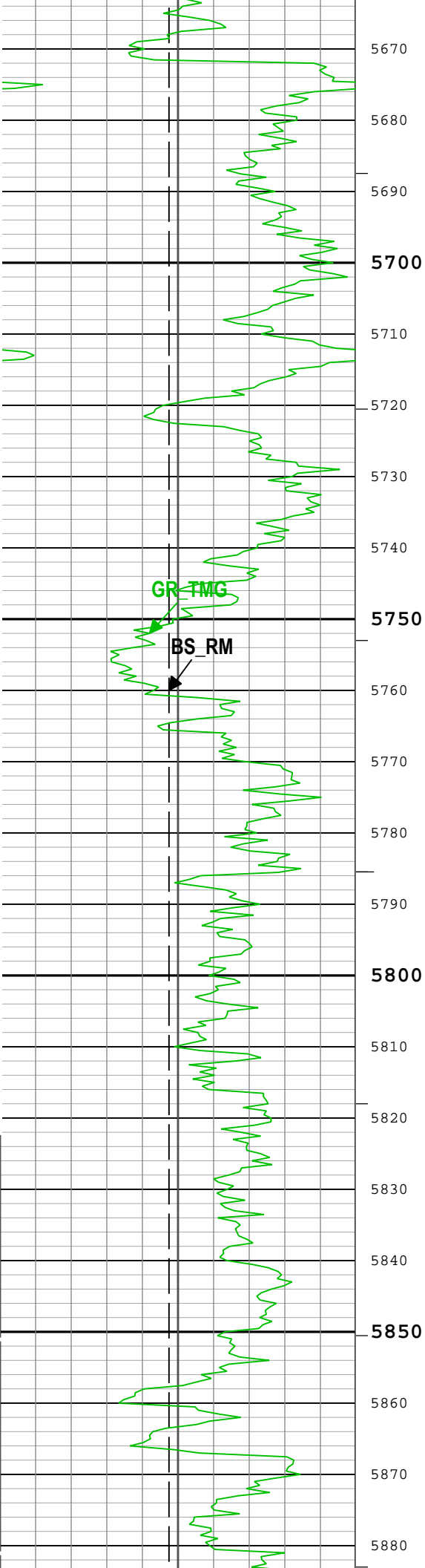


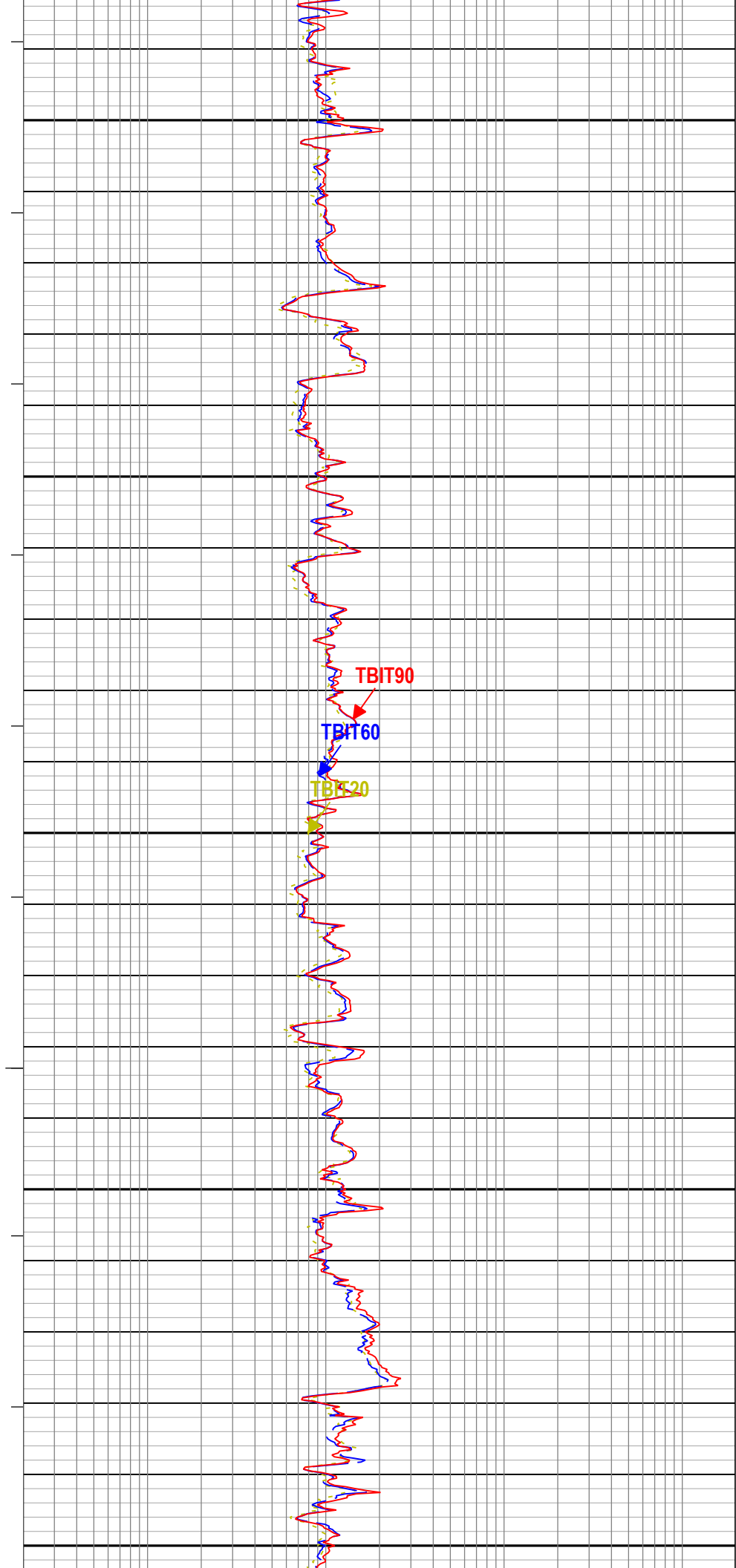
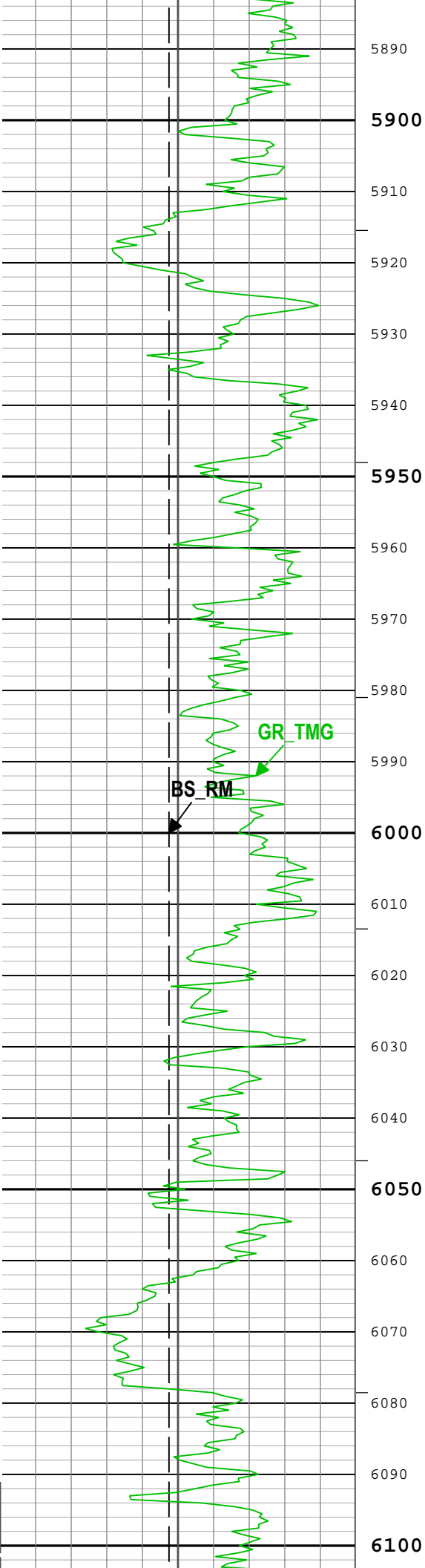


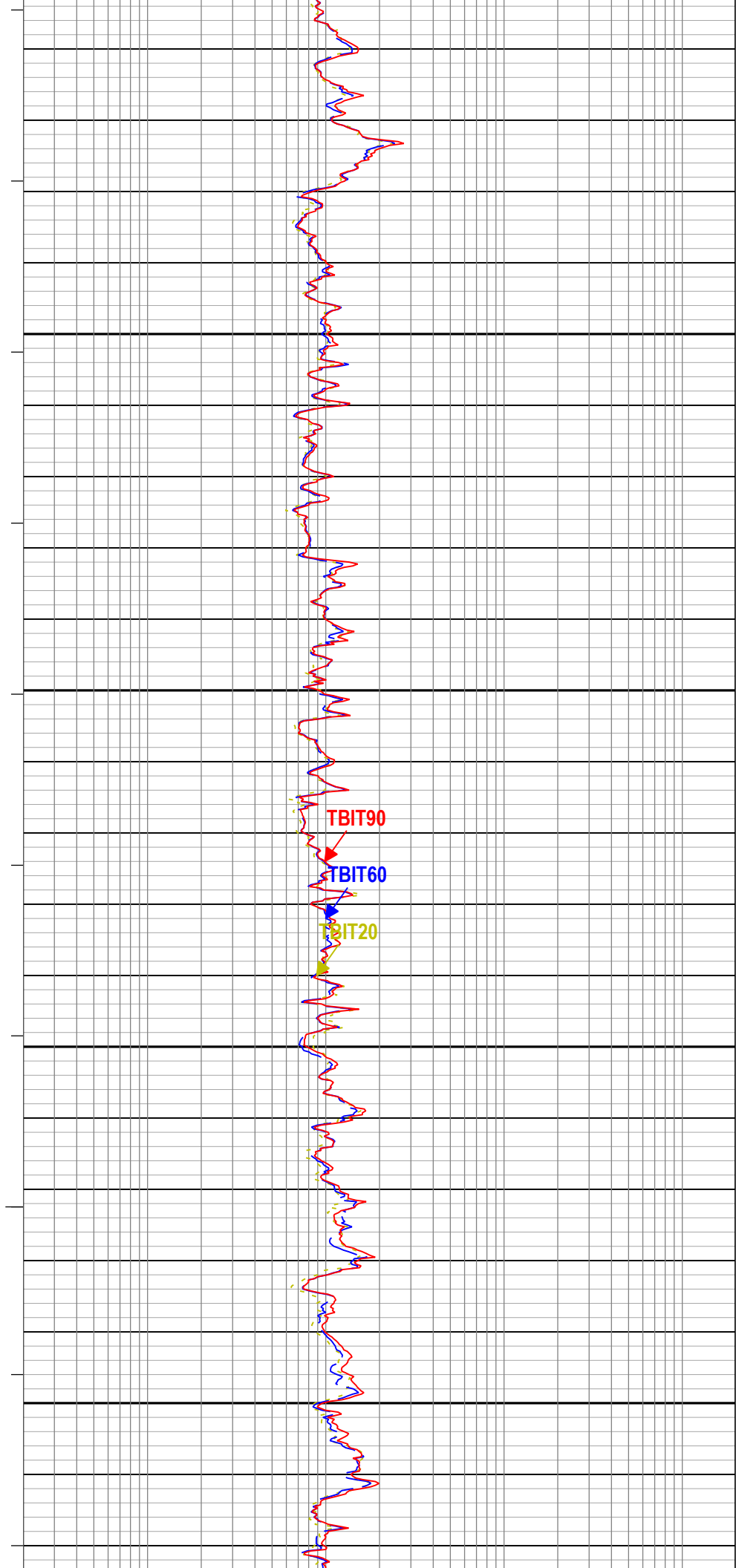
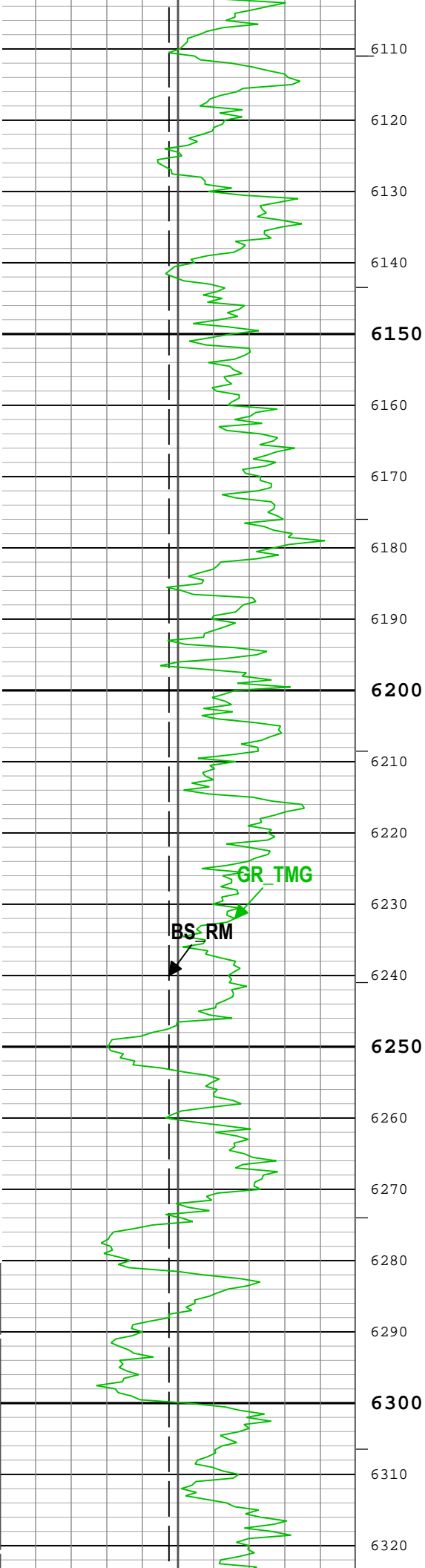


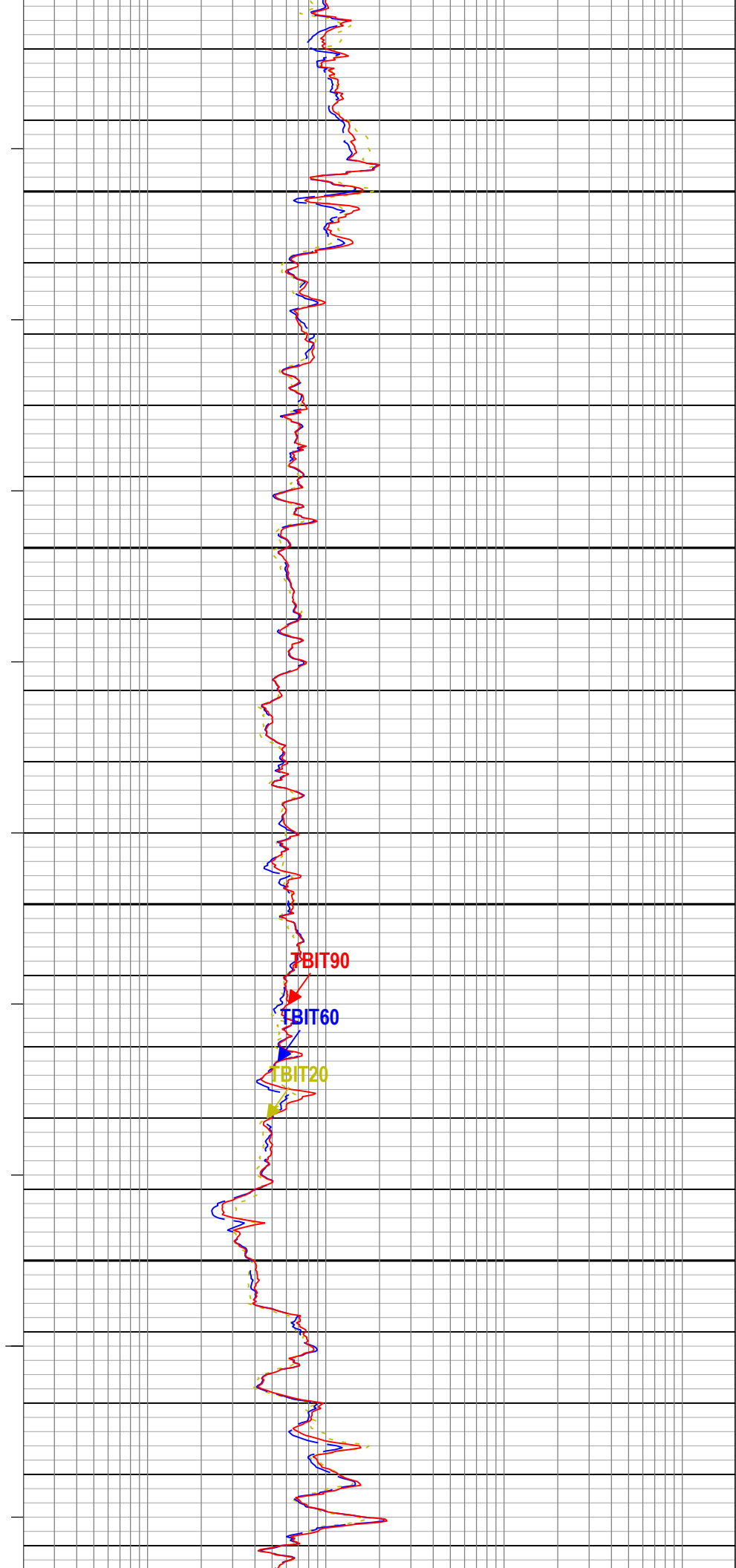
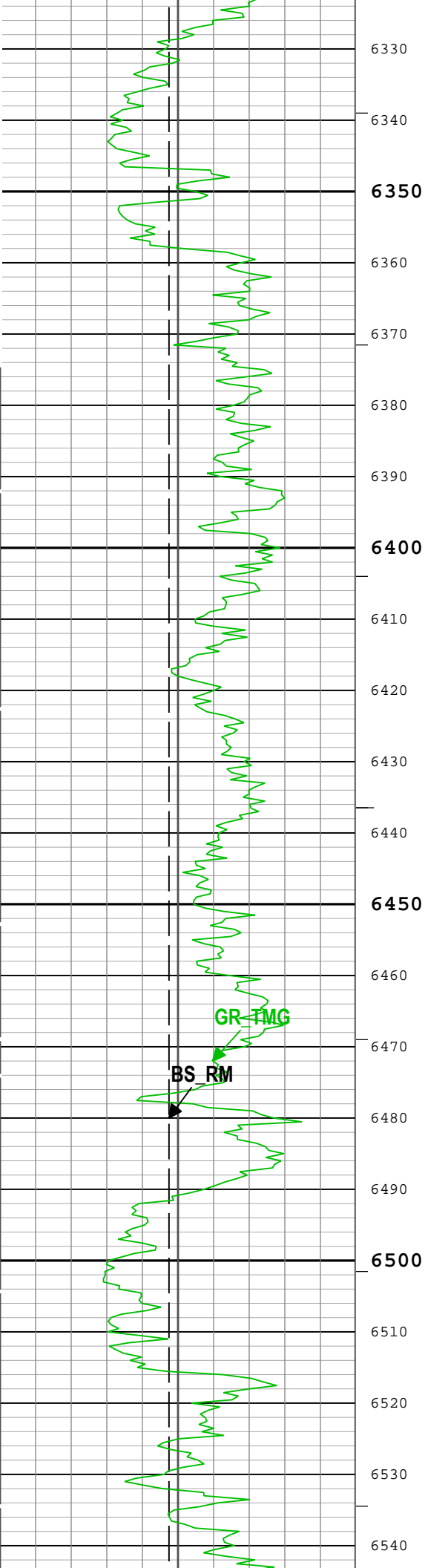


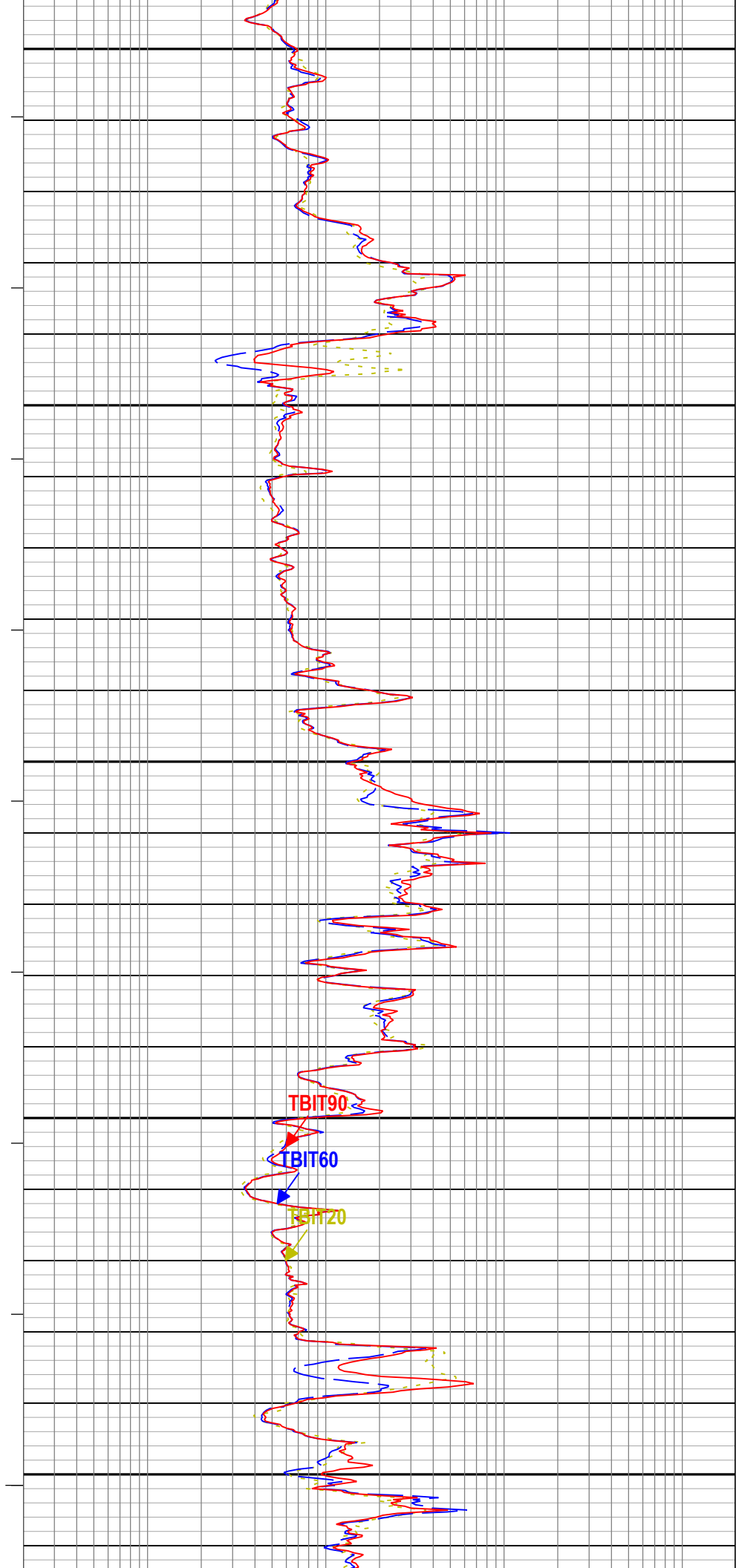
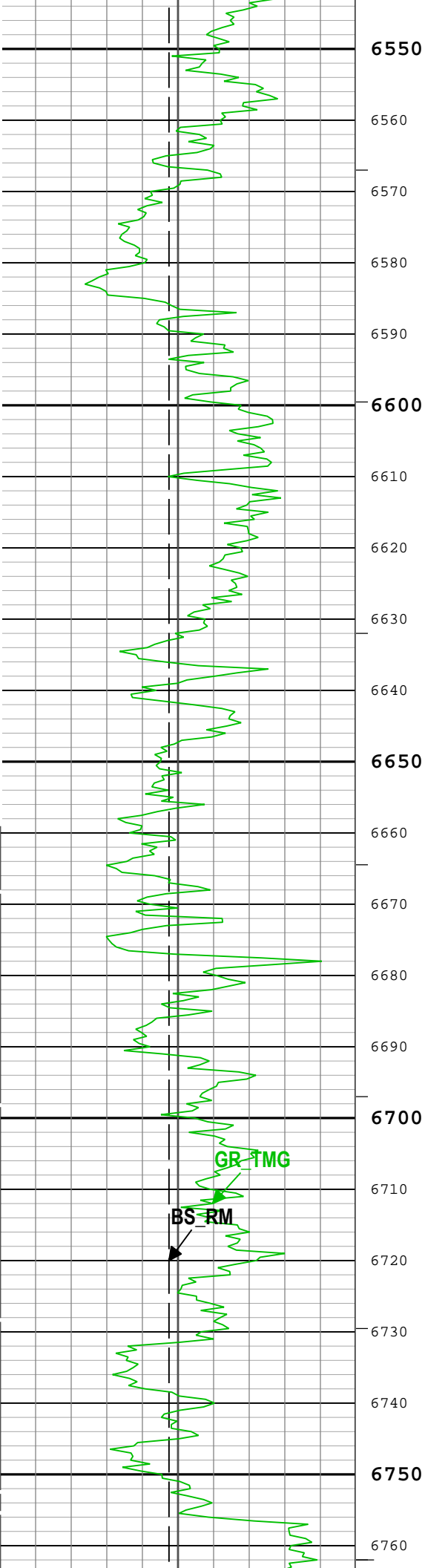




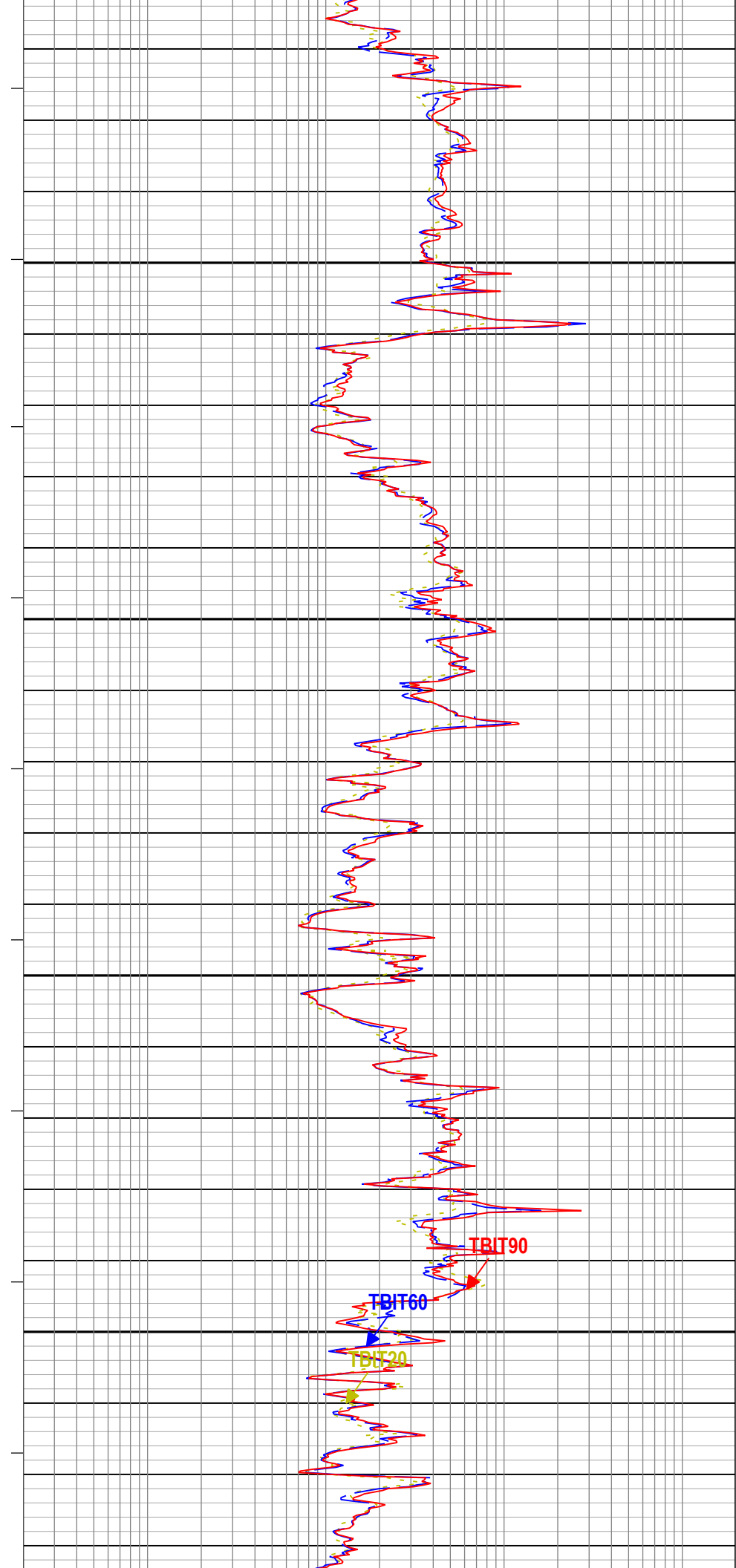
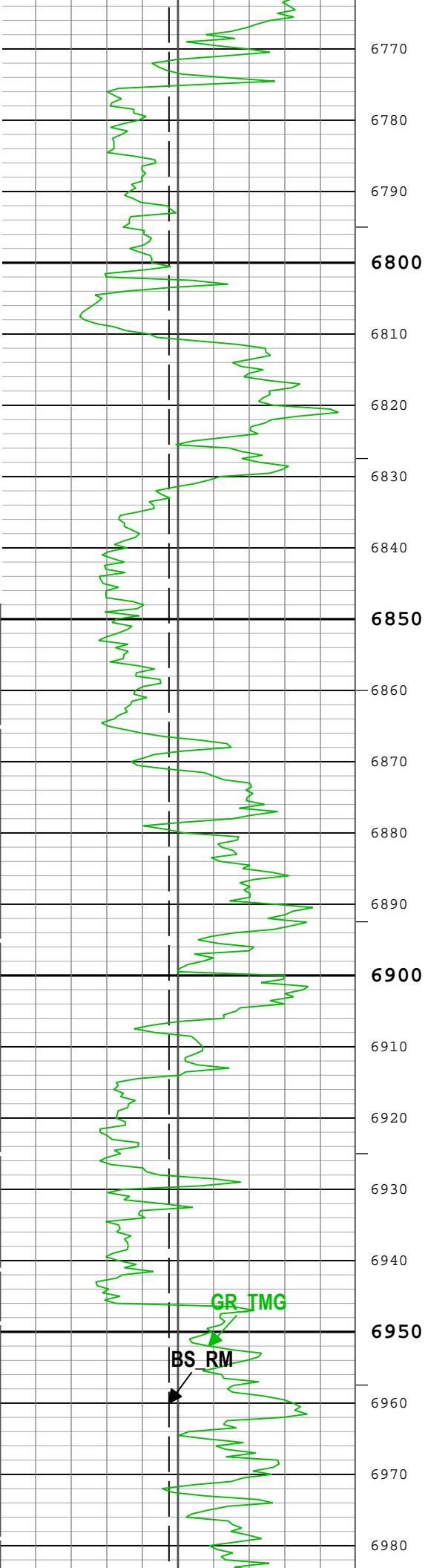


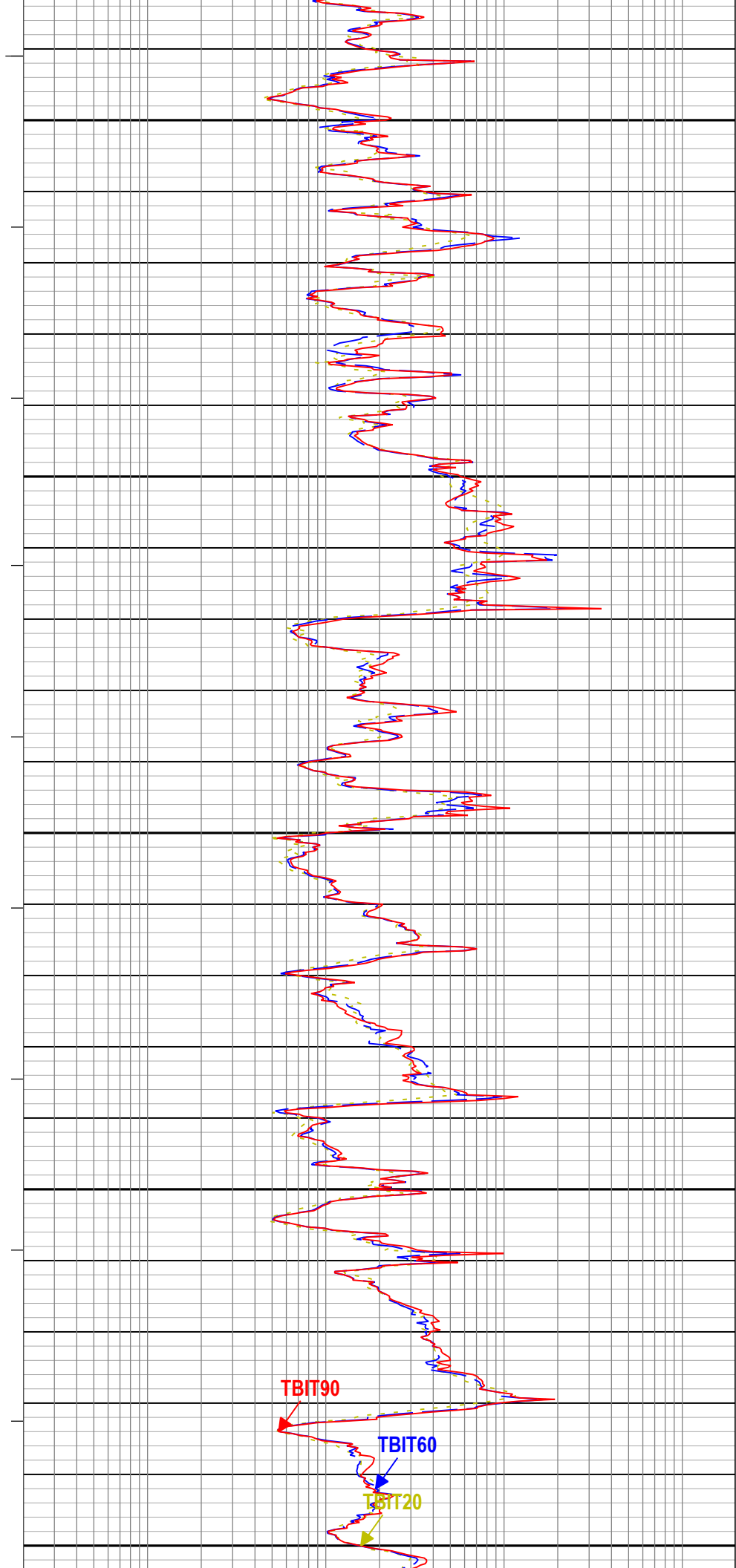
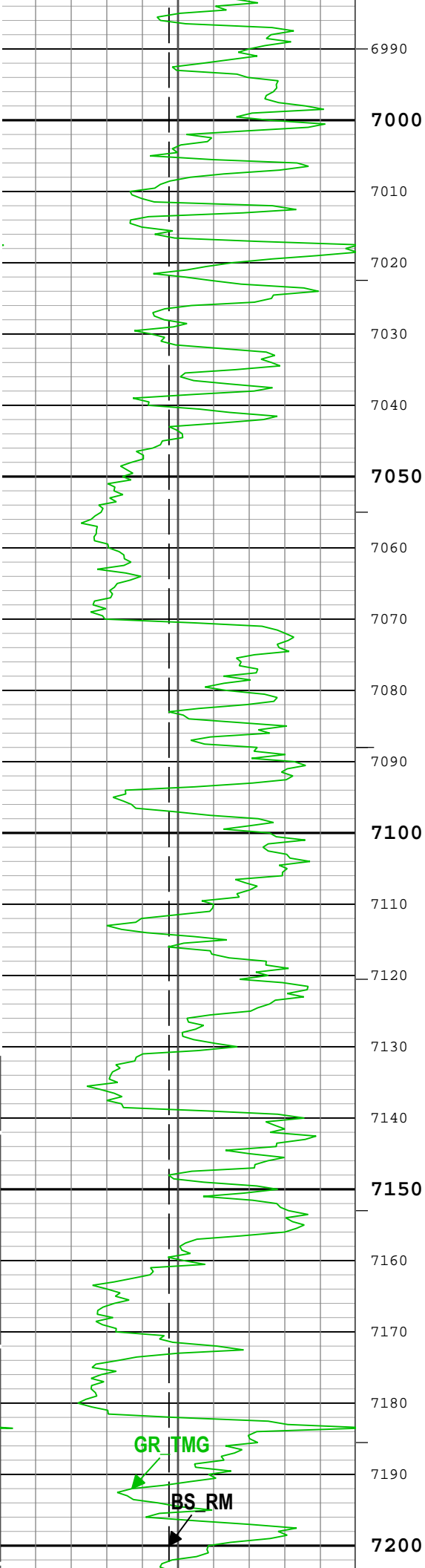


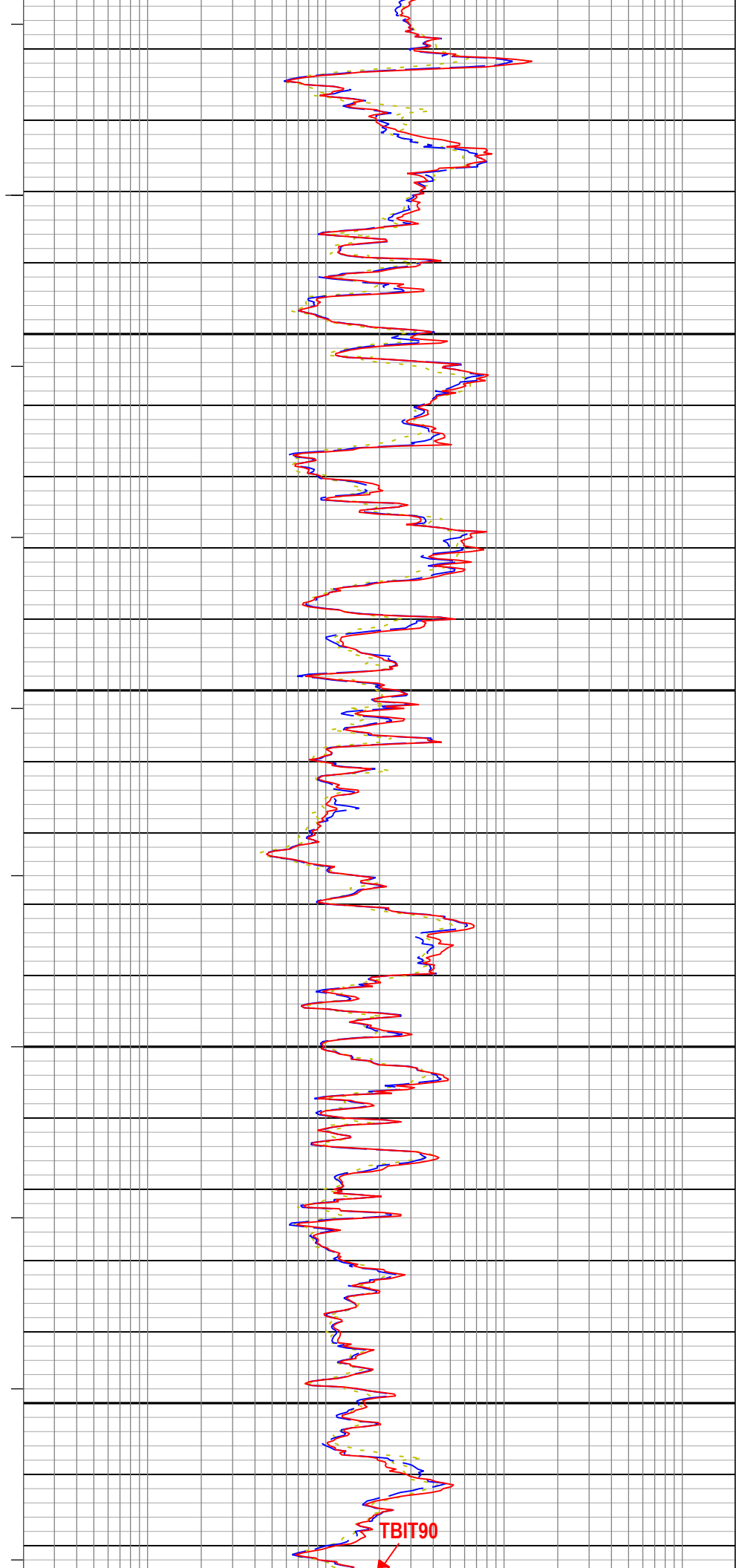
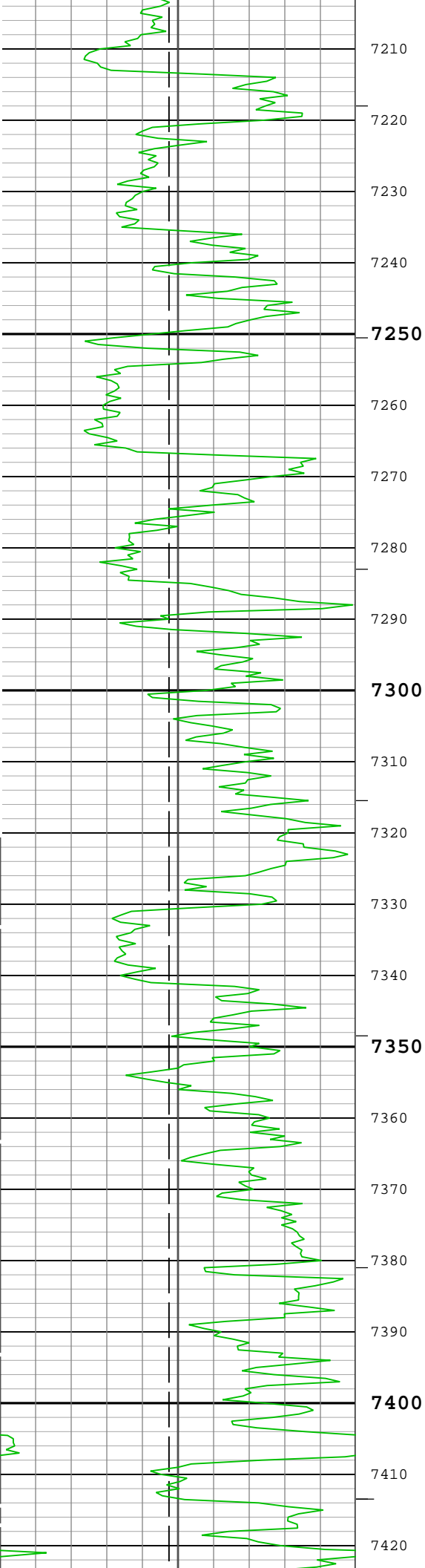


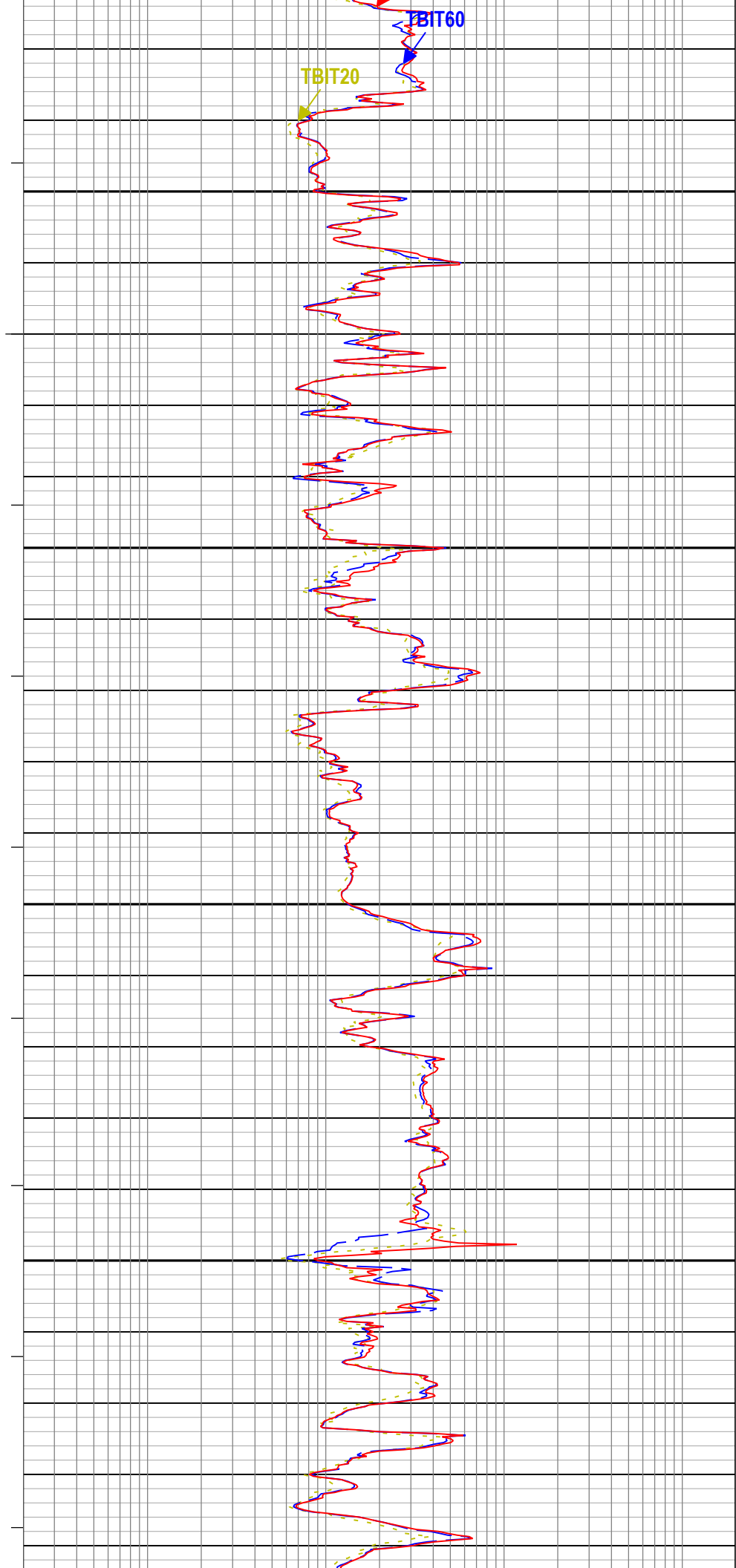
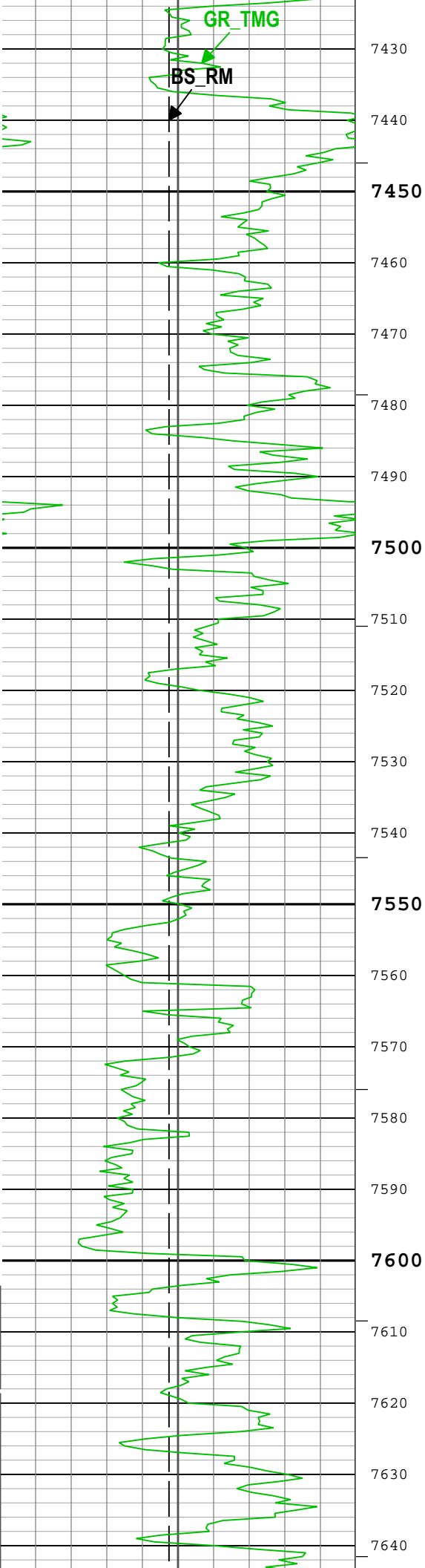


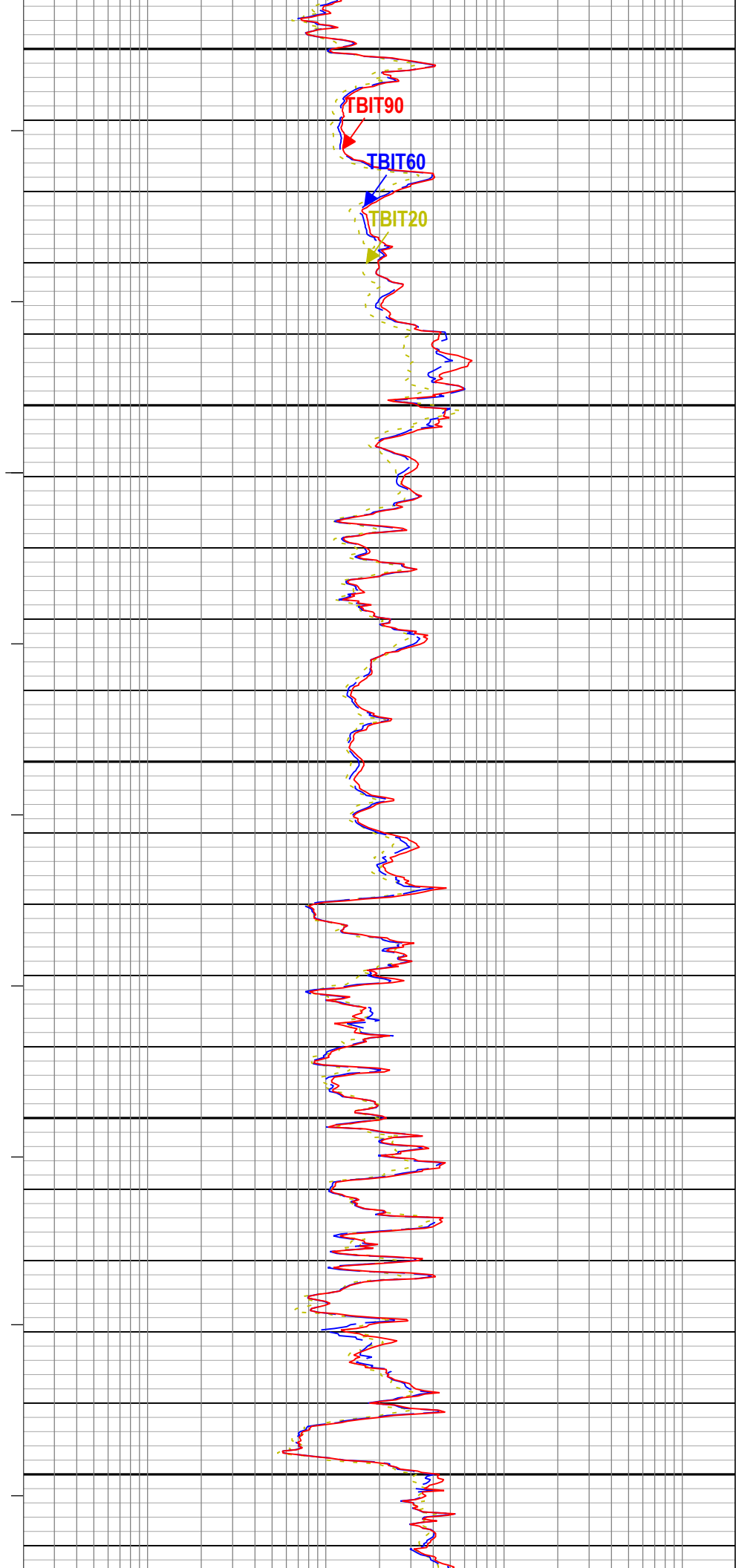
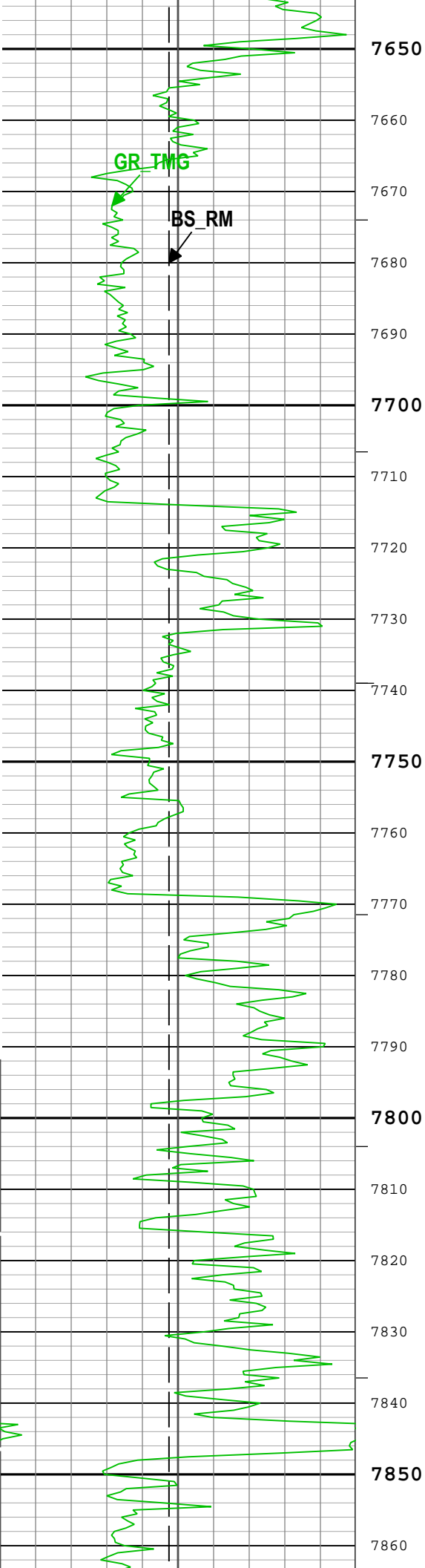


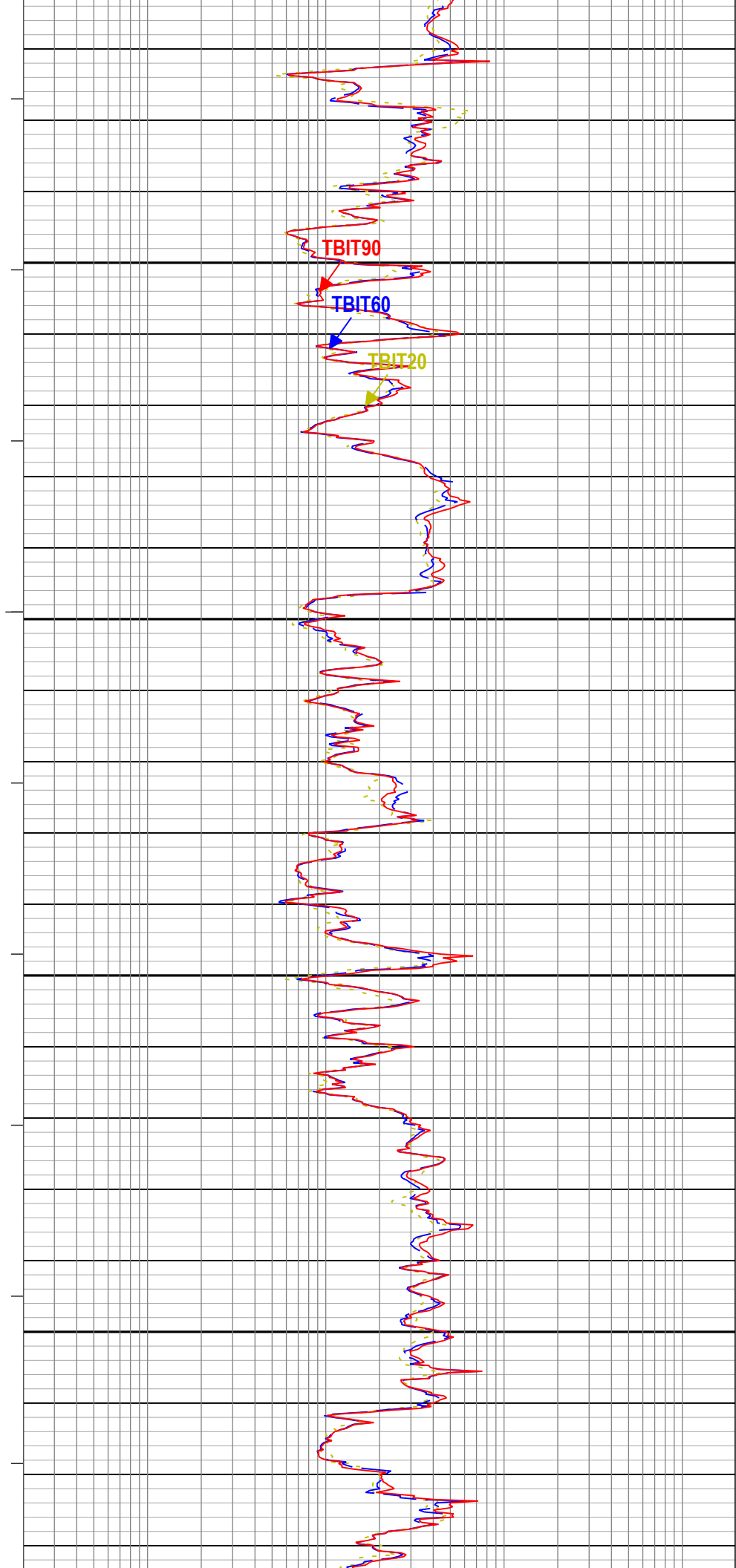
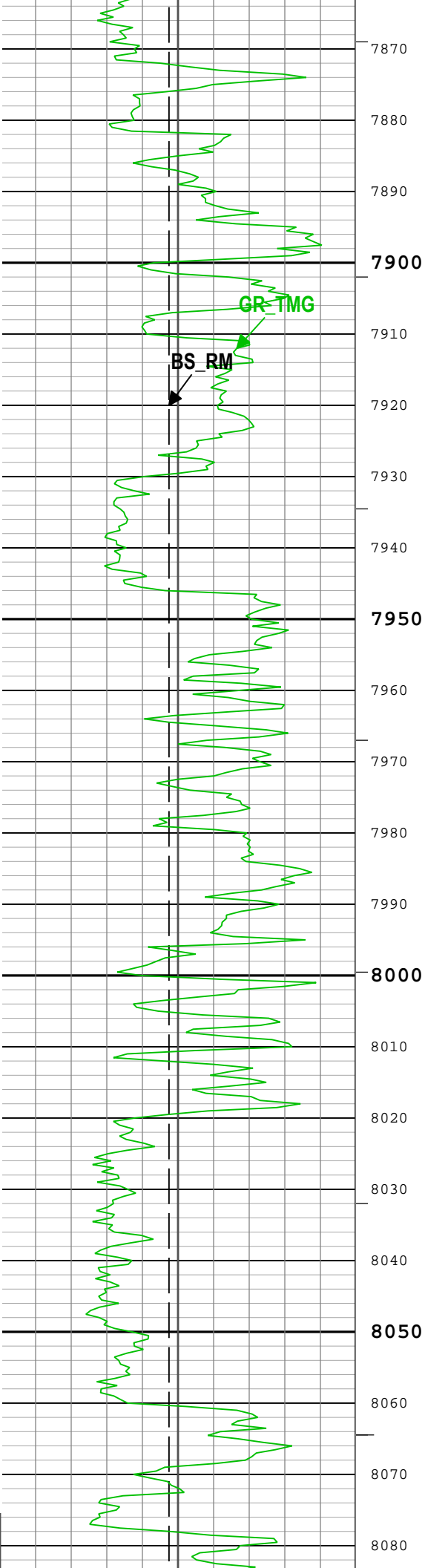


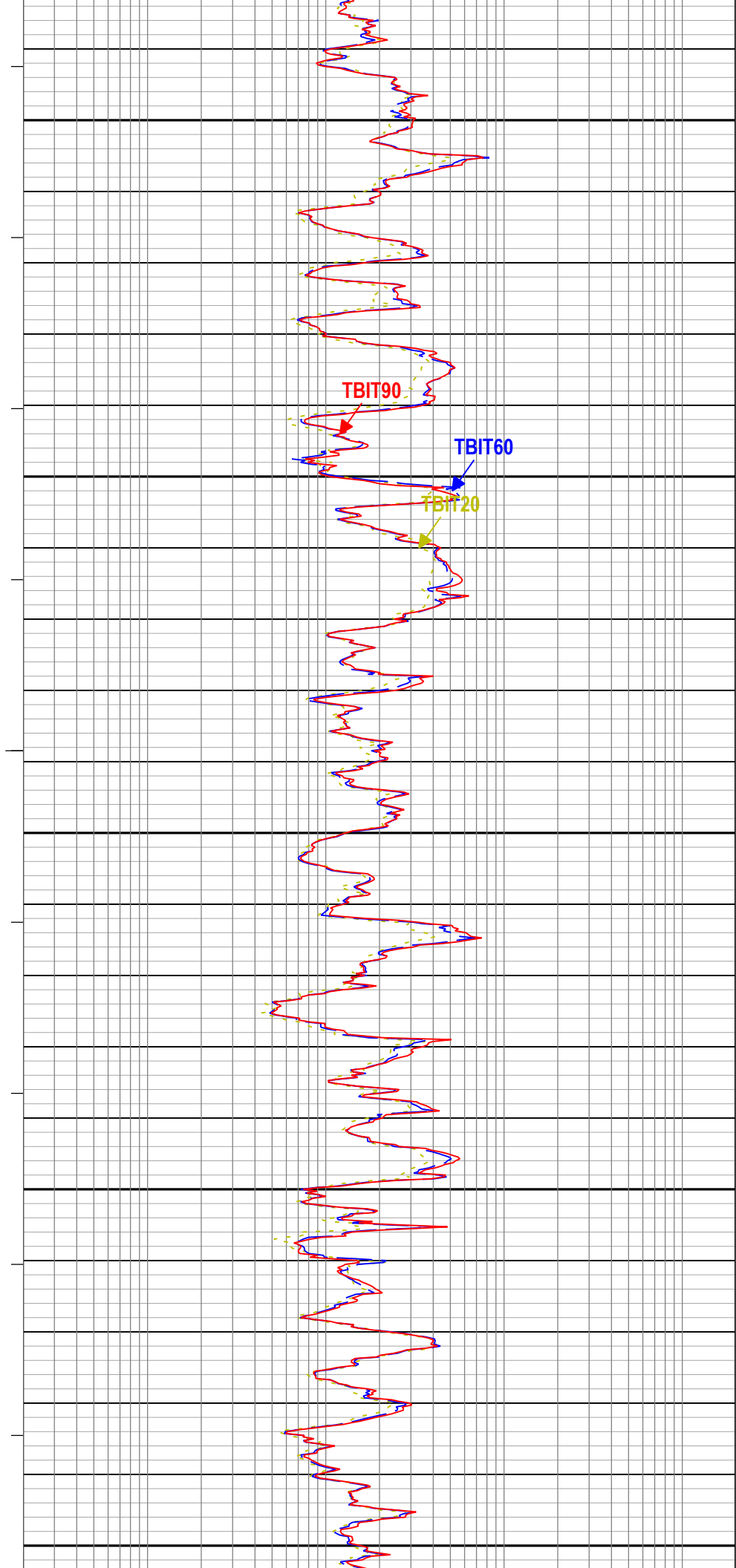
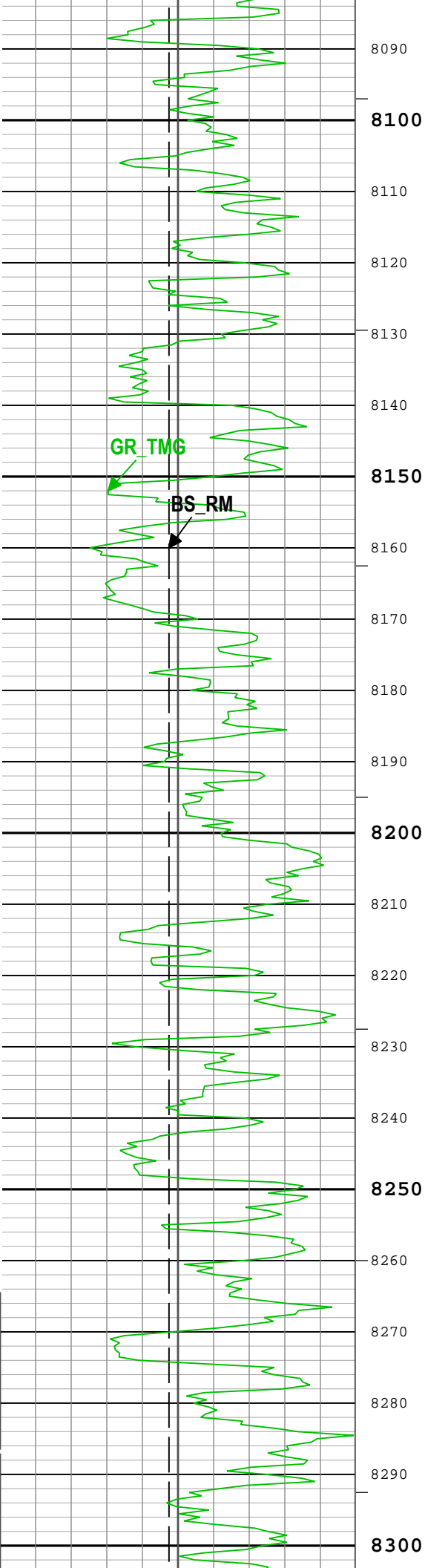


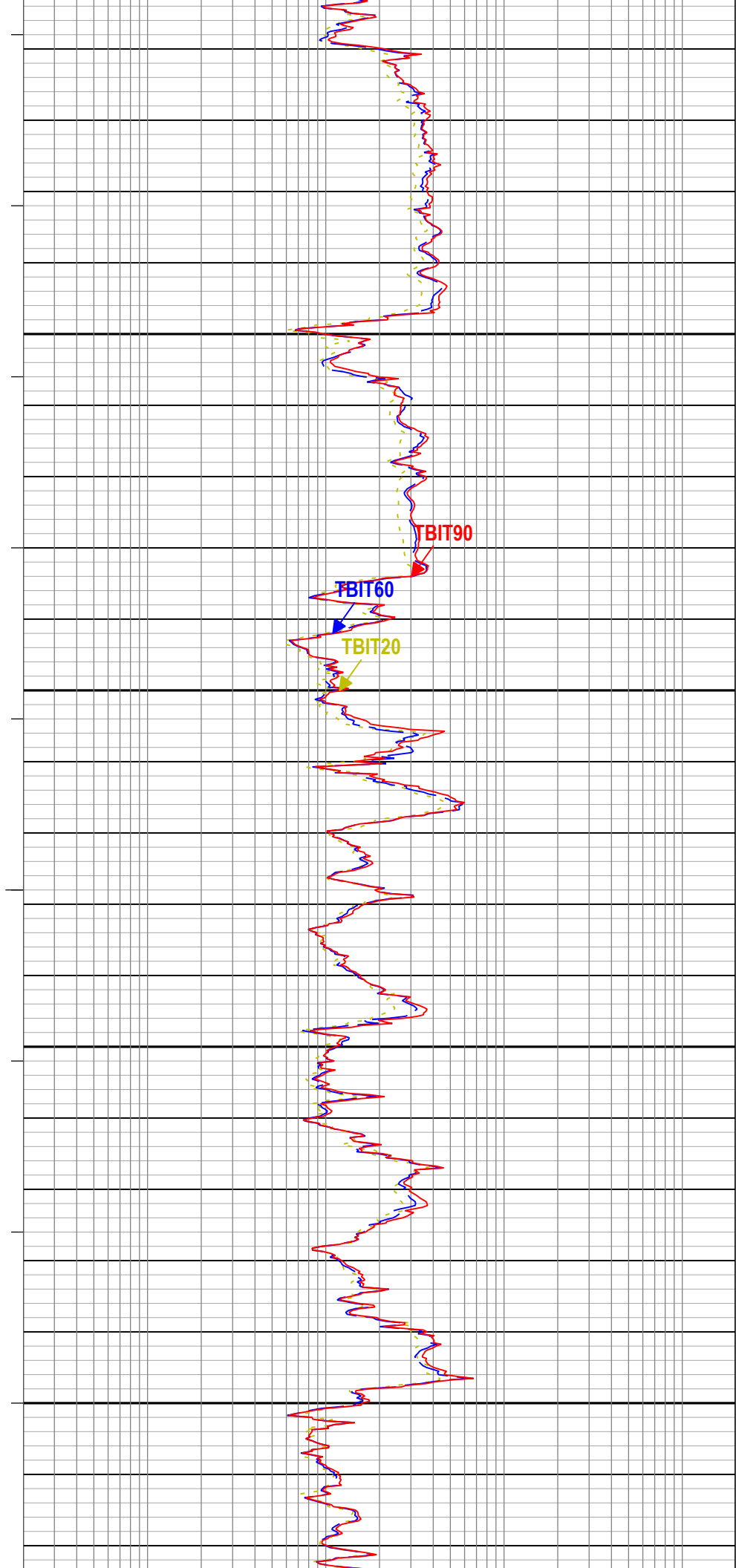
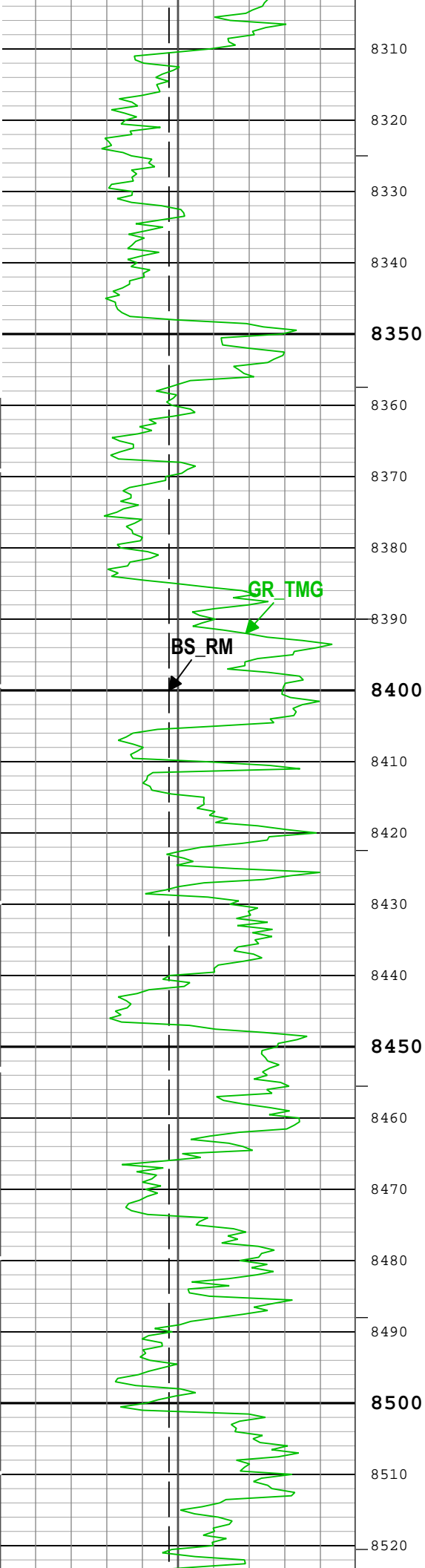




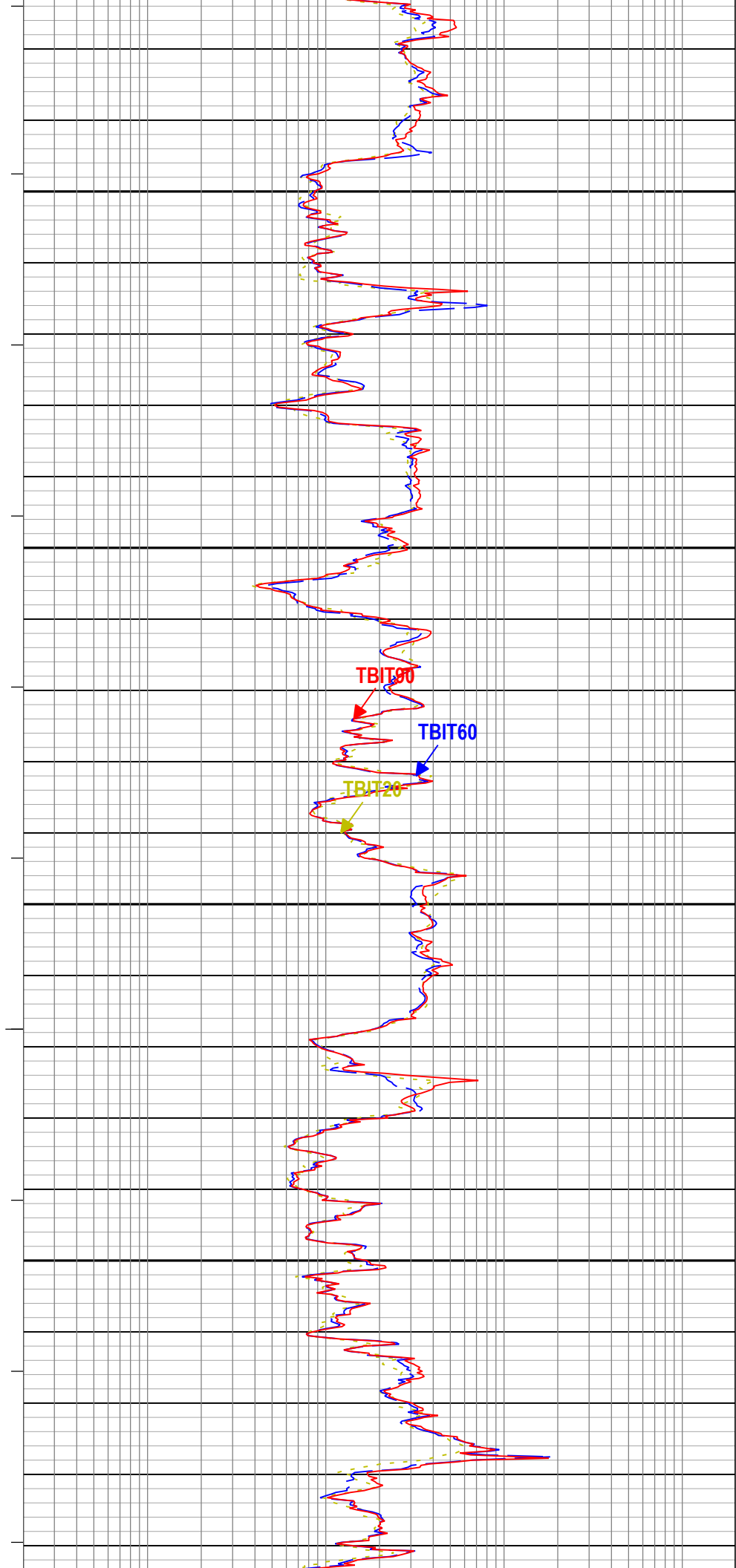
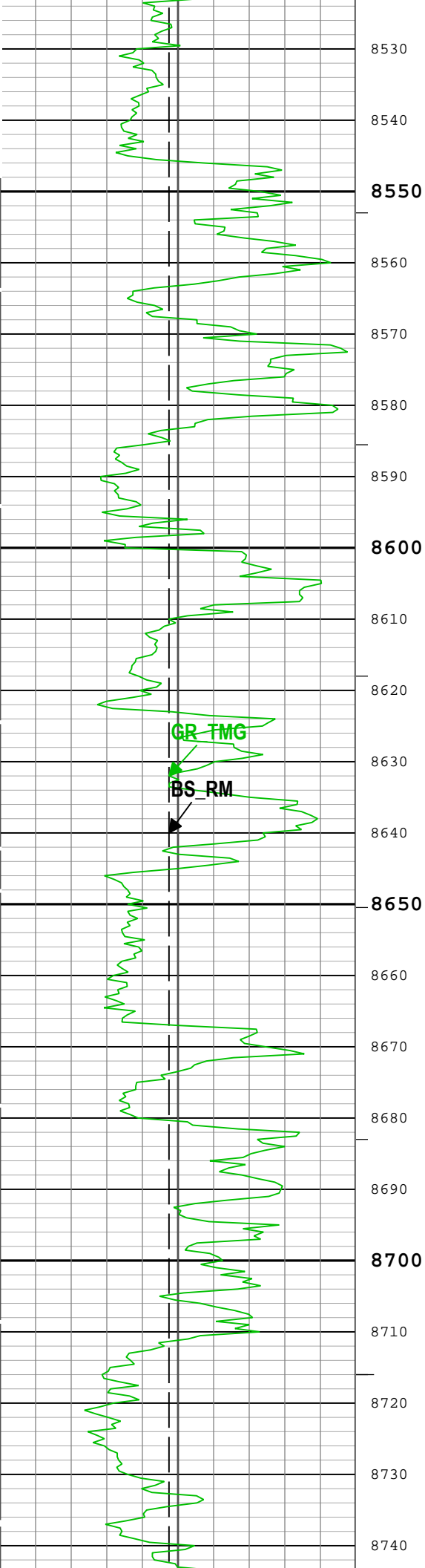


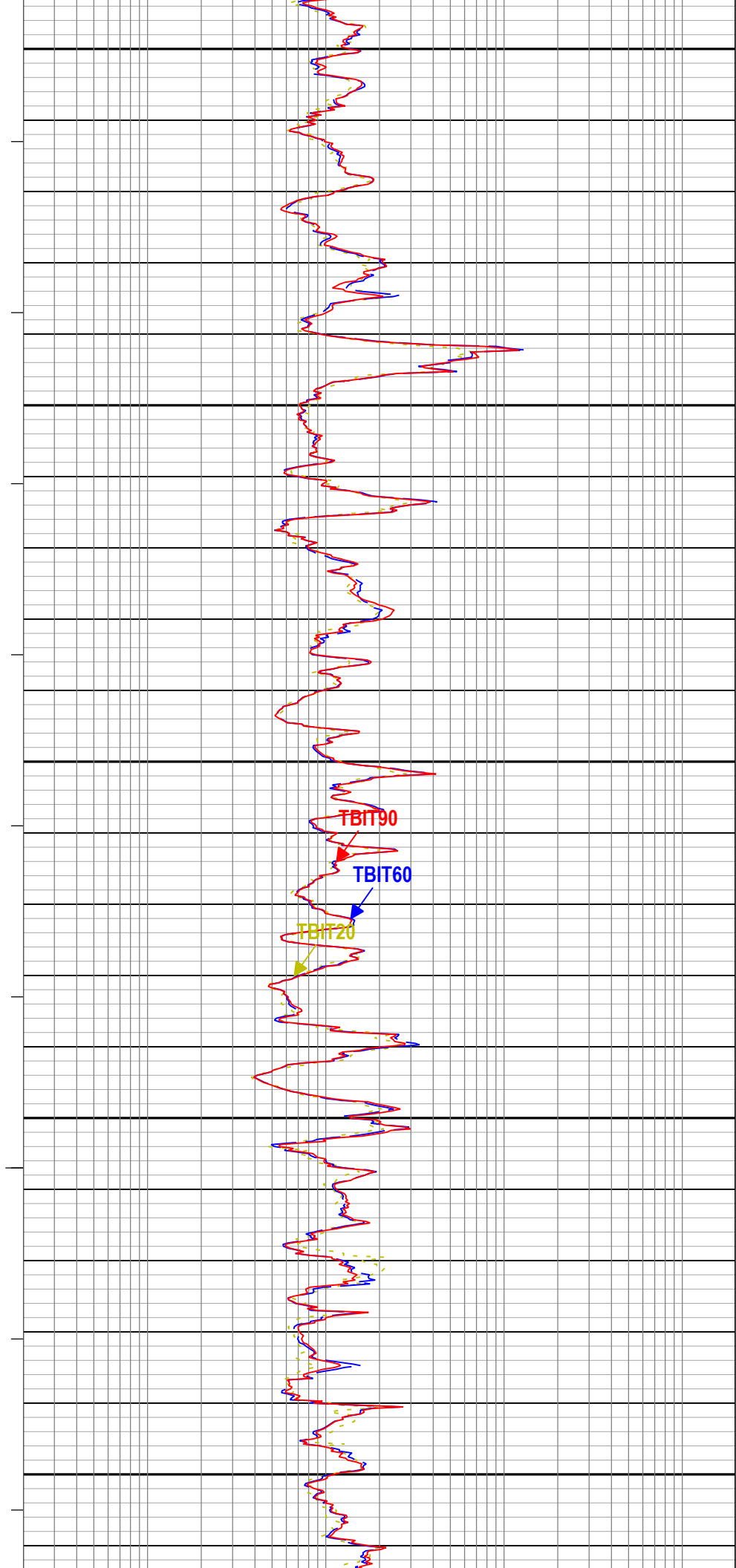
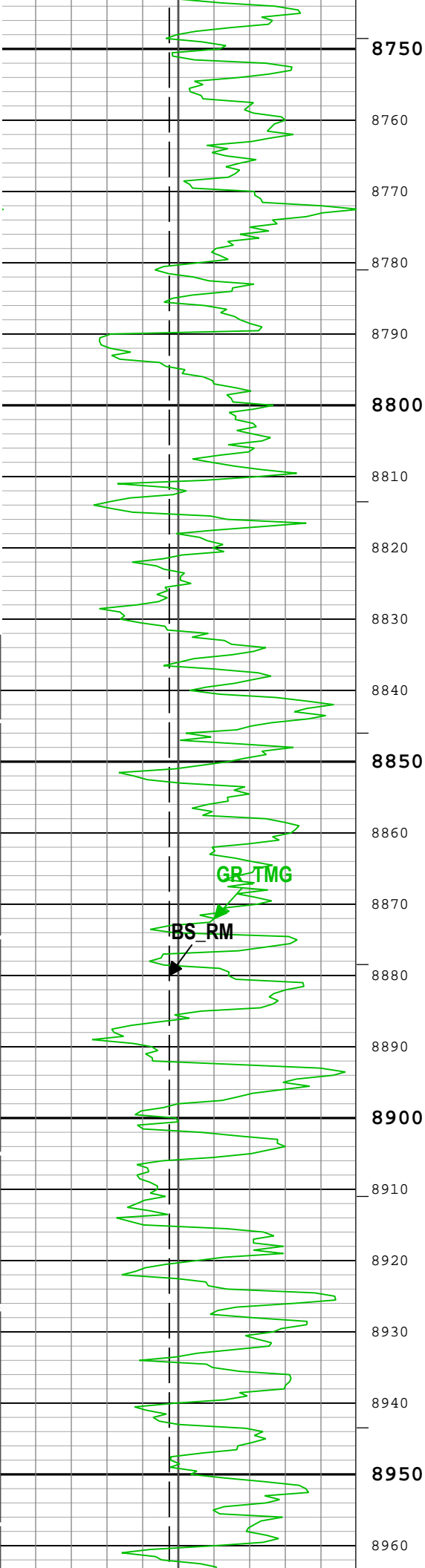


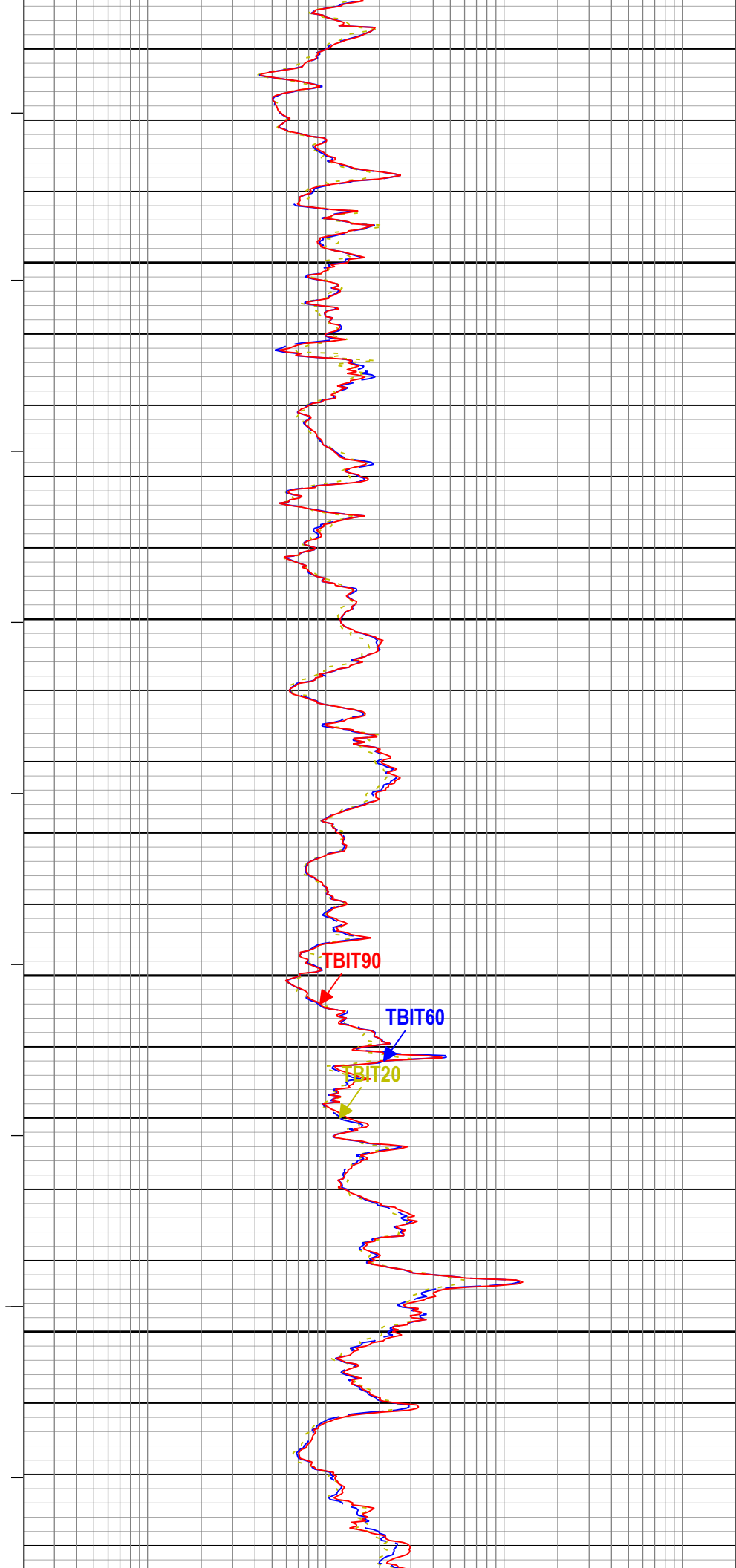
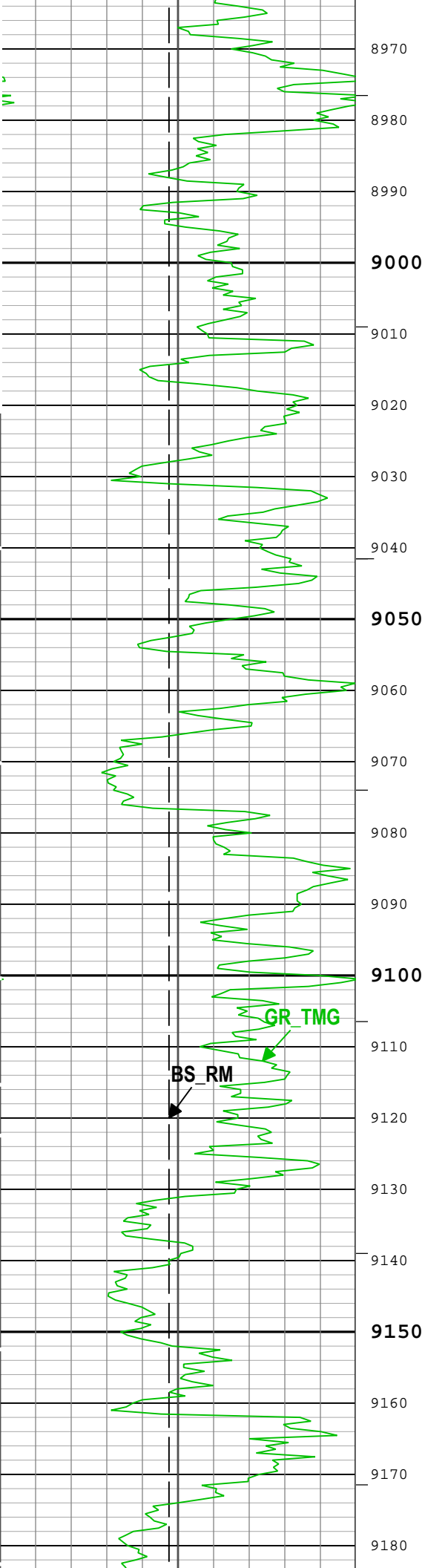


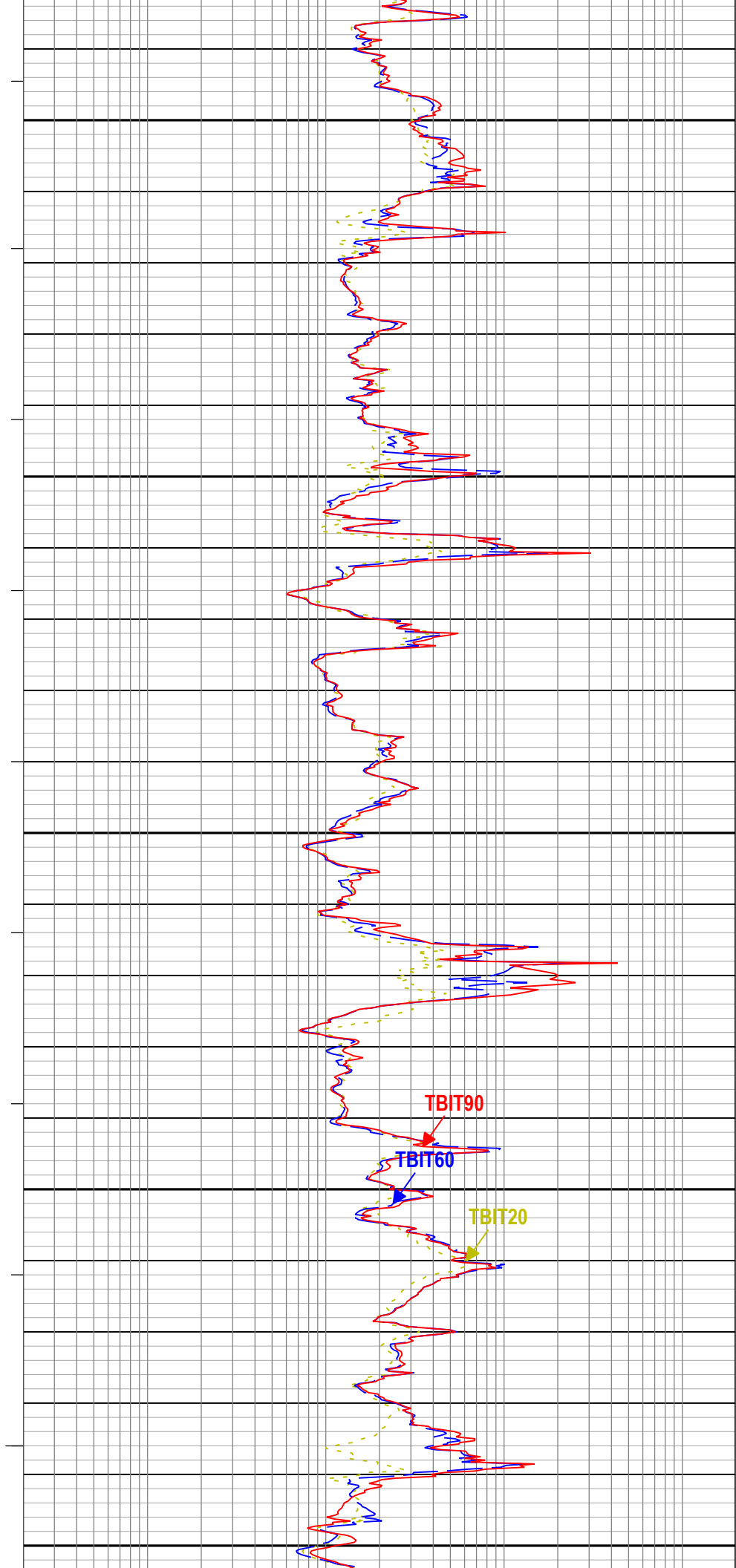
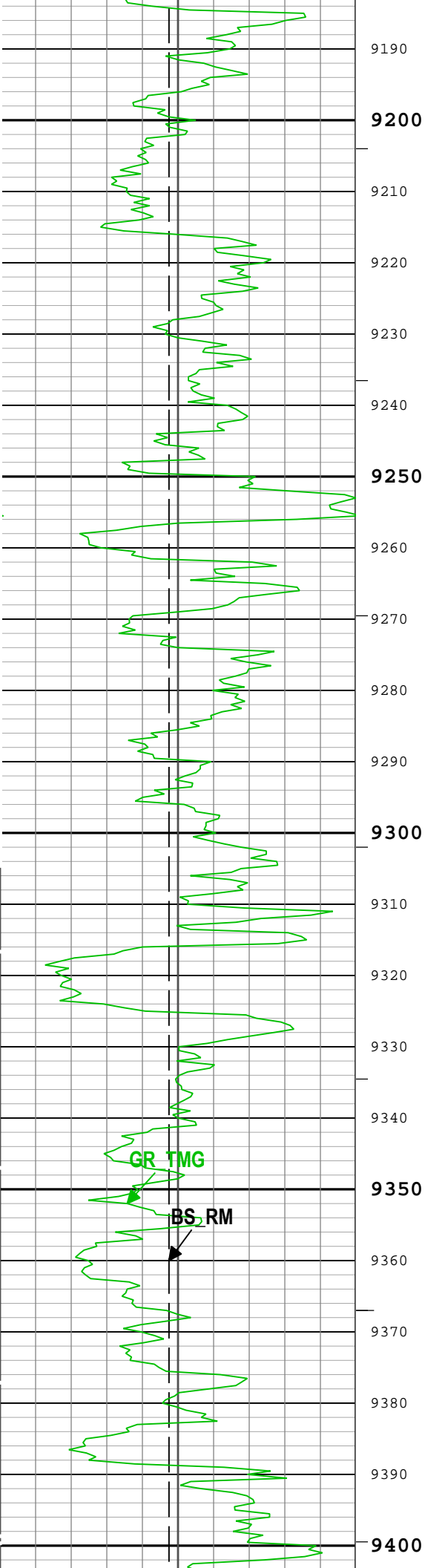


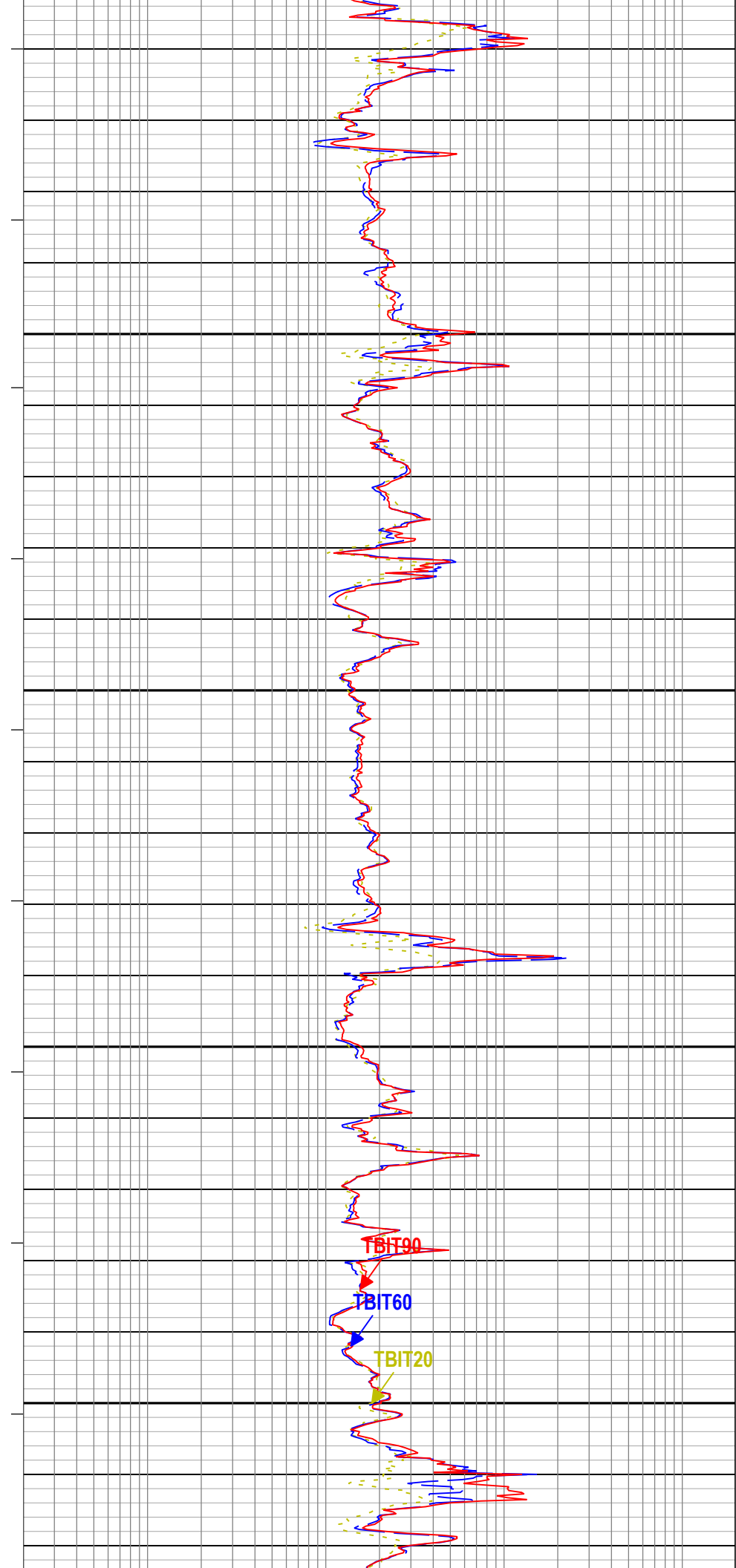
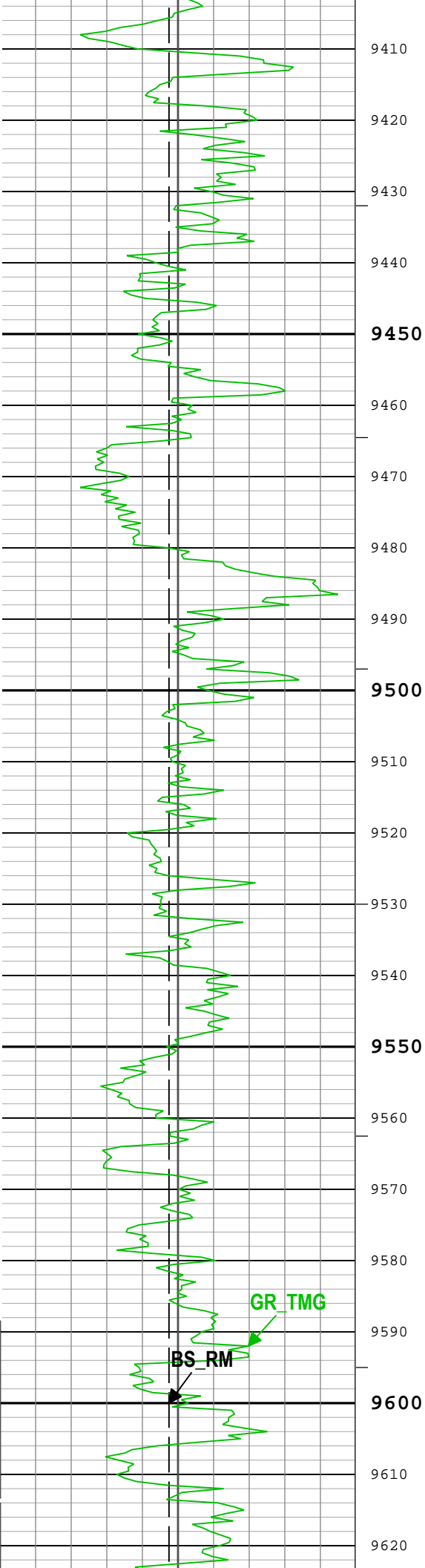


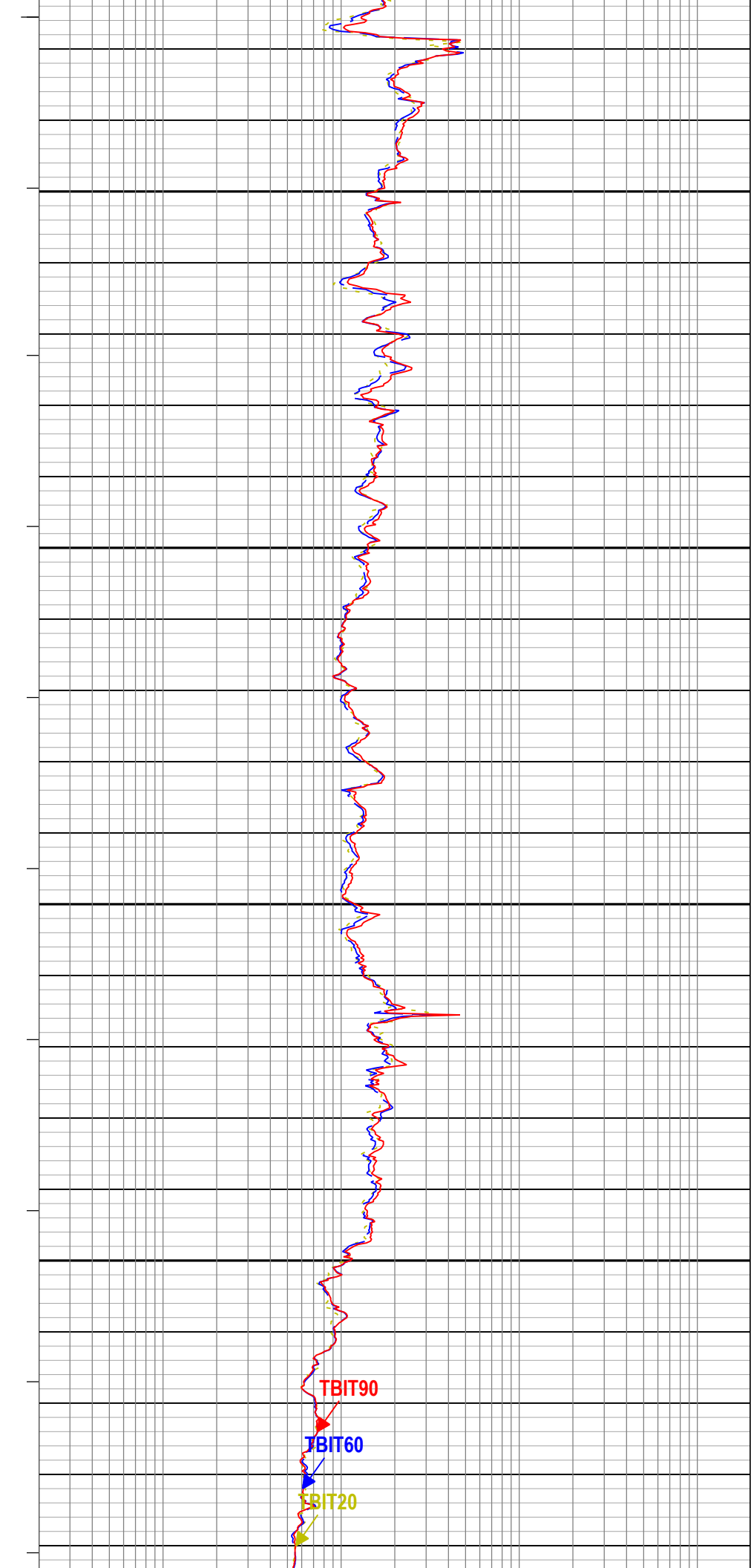
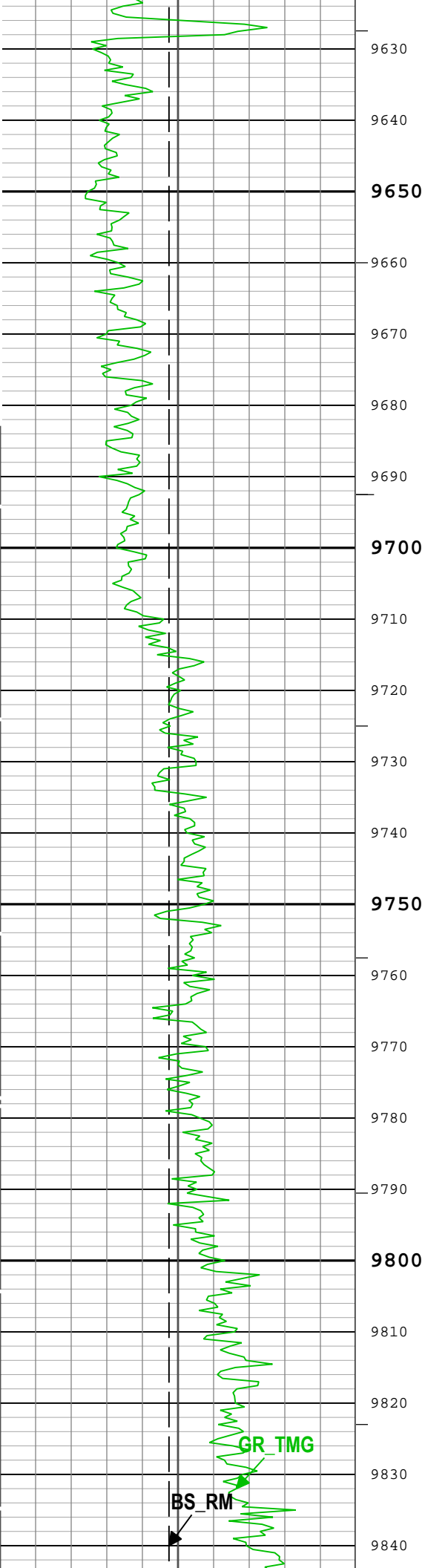


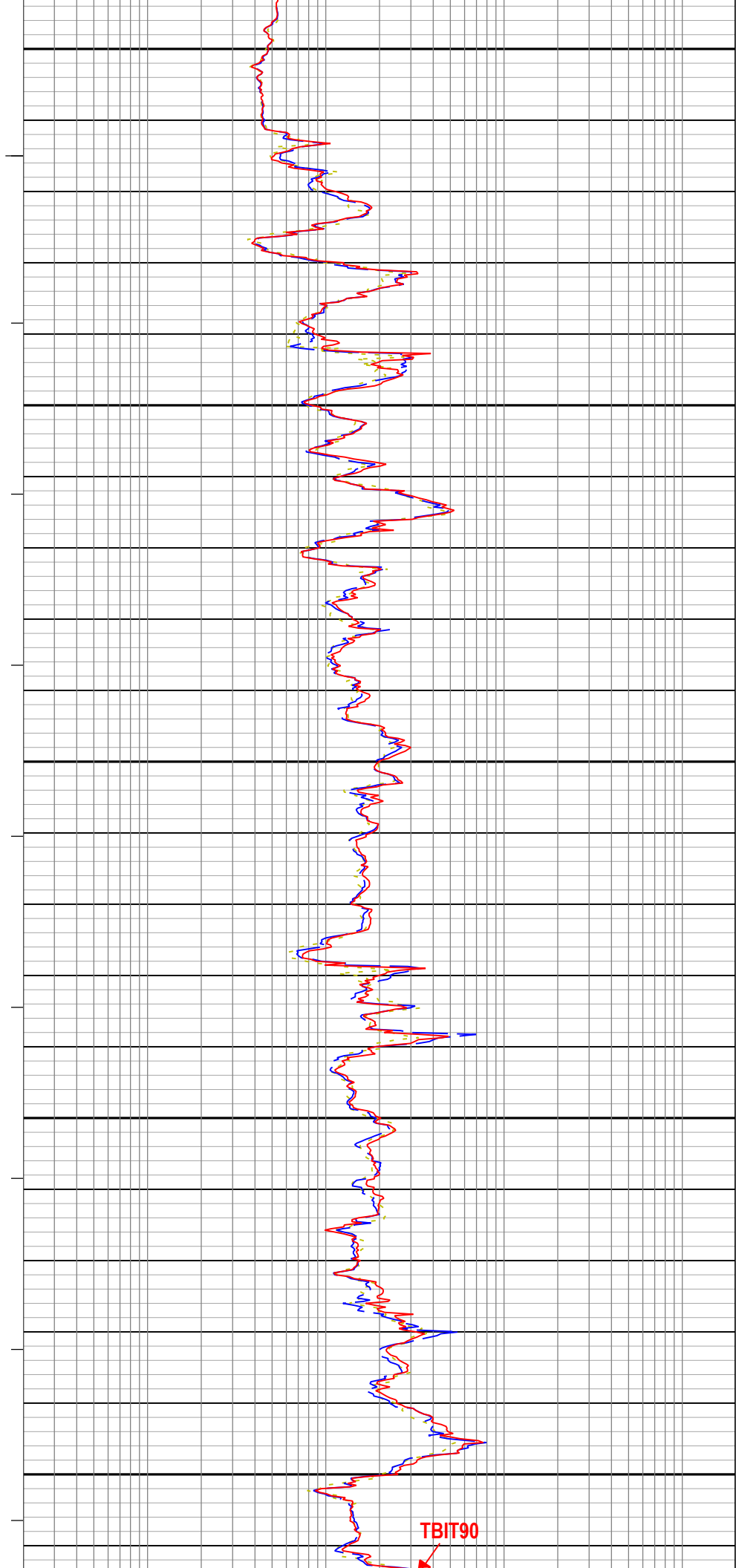
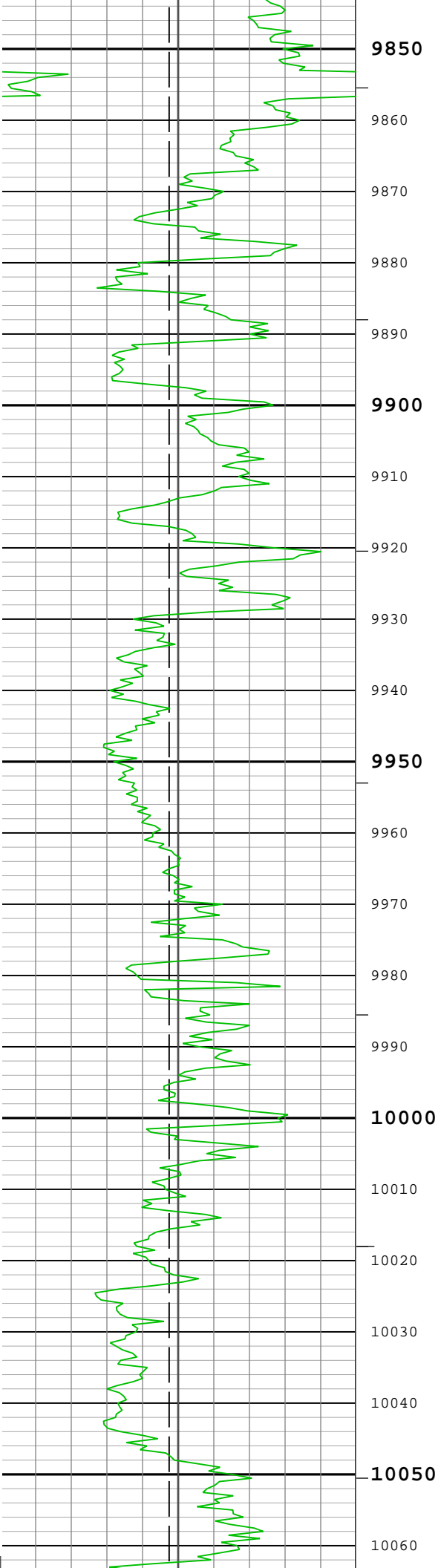


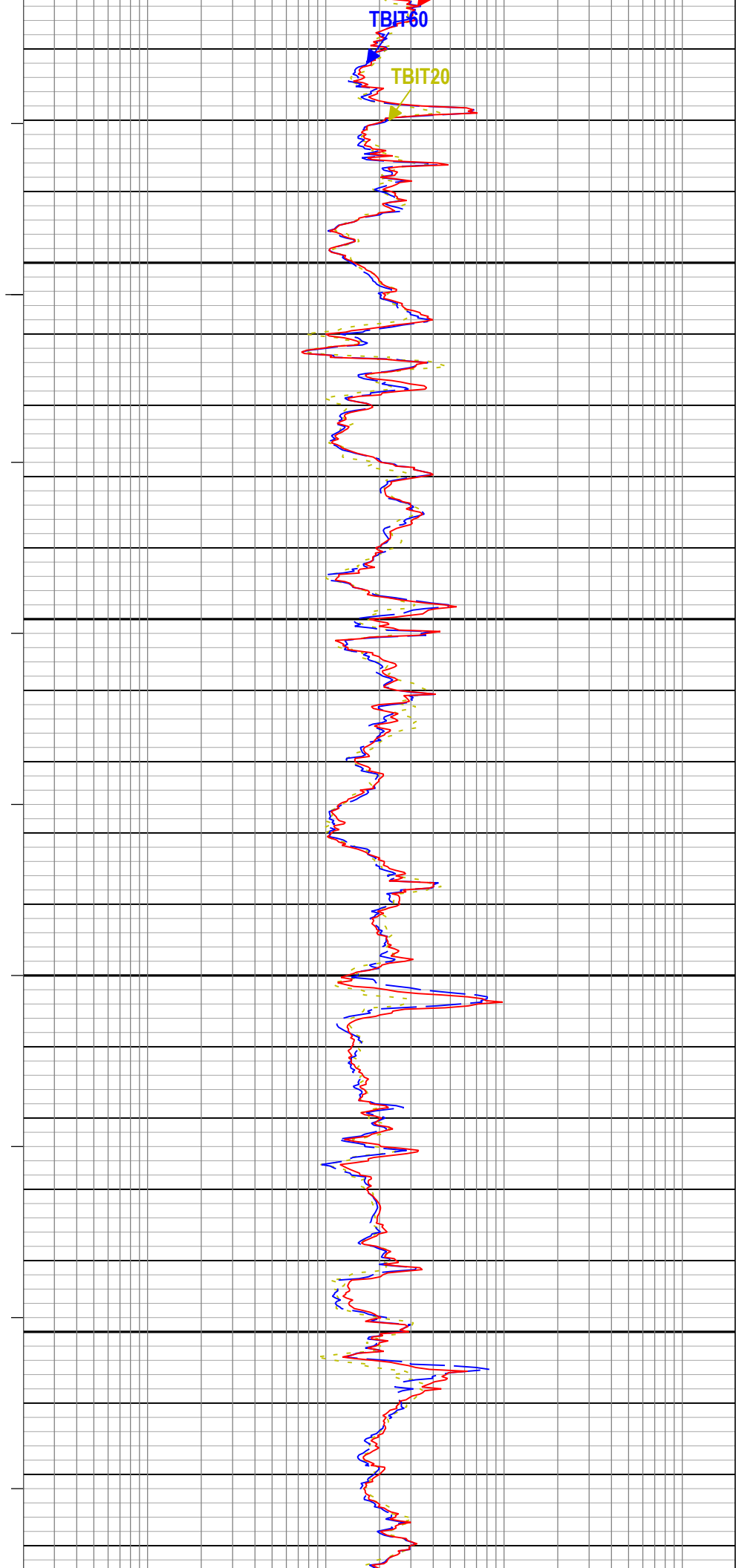
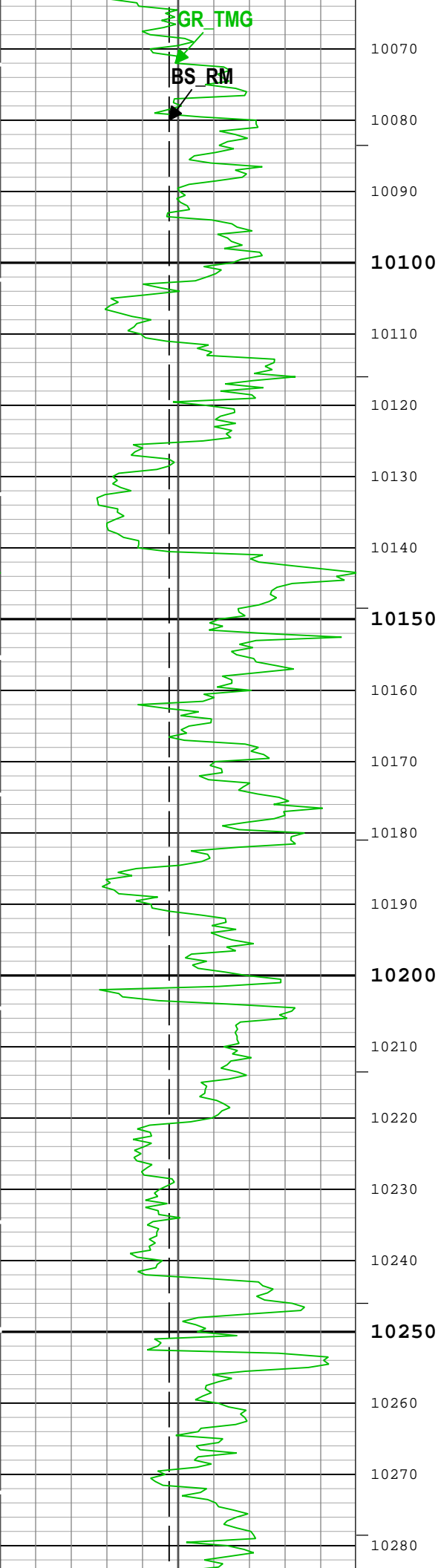




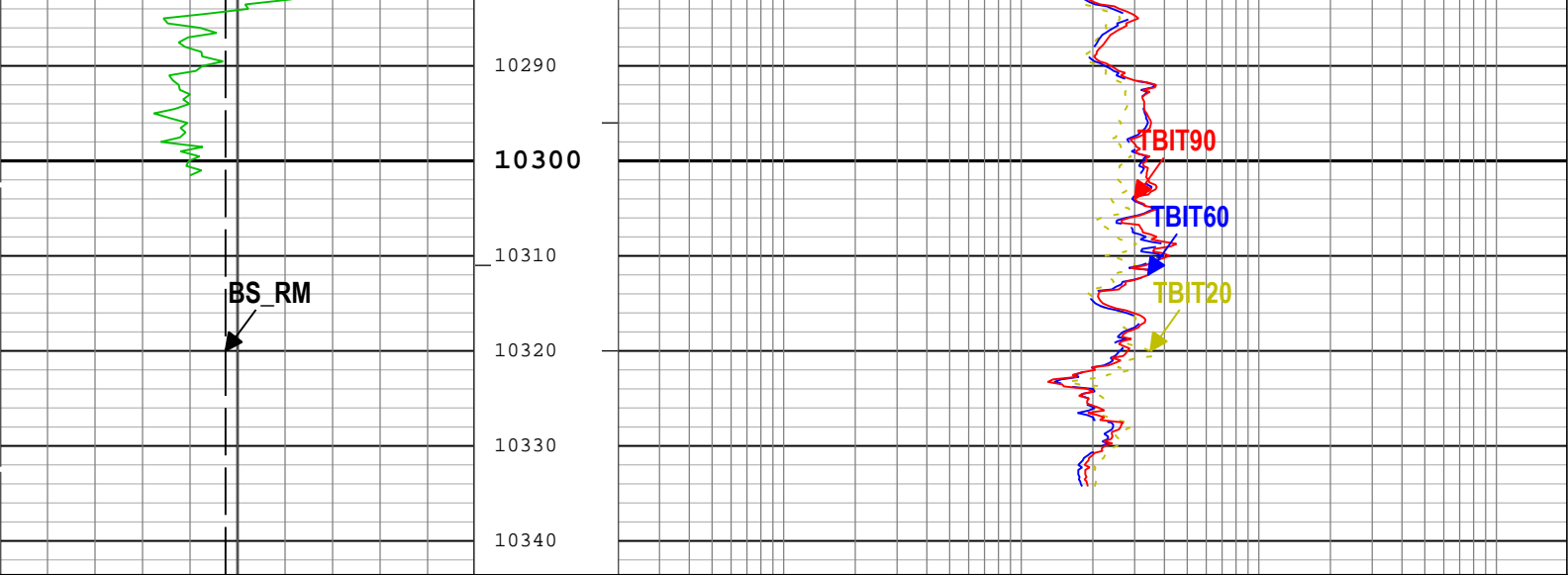












|  |      |     |
|--|------|-----|
| Bit Size (BS_RM) RM                    |      |     |
| 4                                      | in   | 14  |
| Calibrated Gamma Ray (GR_TMG) TMG-A RM |      |     |
| 0                                      | gAPI | 150 |

|   |       |      |
|---|-------|------|
| ThruBit Induction Array Two Foot Resistivity at 20 inch depth of investigation (TBIT20) TBIT-A RM |       |      |
| 0.2   | ohm.m | 2000 |
| ThruBit Induction Array Two Foot Resistivity at 60 inch depth of investigation (TBIT60) TBIT-A RM |       |      |
| 0.2   | ohm.m | 2000 |
| ThruBit Induction Array Two Foot Resistivity at 90 inch depth of investigation (TBIT90) TBIT-A RM |       |      |
| 0.2   | ohm.m | 2000 |

TIME\_1900 - Time Marked every 60.00 (s)

- |— ICV\_RM - Integrated Cement Volume every 100.00 (ft3)
- |— ICV\_RM - Integrated Cement Volume every 10.00 (ft3)
- | IHV\_RM - Integrated Hole Volume every 100.00 (ft3)
- | IHV\_RM - Integrated Hole Volume every 10.00 (ft3)

Description: ThruBit\_TBI\_2ft\_RM Format: Log ( ThruBit\_TBI\_2ft\_RM ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Aug-2018 23:02:40

| Channel Processing Parameters |   |           |                   |      |
|-------------------------------|---|-----------|-------------------|------|
| TB-TCOM: Parameters           |   |           |                   |      |
| Parameter                     | Description   | Tool      | Value             | Unit |
| BHS                           | Borehole Status (Open or Cased Hole)                                | Borehole  | Open              |      |
| BS                            | Bit Size  | WLSESSION | 8.75              | in   |
| CBLO                          | Casing Bottom (Logger)  | WLSESSION | 2530              | ft   |
| DFT_CATEGORY                  | Drilling Fluid Type   | Borehole  | Water             |      |
| FCD                           | Future Casing (Outer) Diameter                                      | WLSESSION | 4.5               | in   |
| HSCOT                         | Hole Size Correction Option (None, Bit Size, Density Caliper, GCSE) | TBIT-A    | GCSE              |      |
| TBI_TC_OP                     | Induction Temperature Correction Option                             | TBIT-A    | Lower             |      |
| TBI_REPL_ARRAY_DEST           | ThruBit Induction Array to Replace                                  | TBIT-A    | None              |      |
| TBI_REPL_ARRAY_SOURCE         | ThruBit Induction Array to Replace with                             | TBIT-A    | None              |      |
| TBI_RMUD_SRC                  | TBI Mud Resistivity Source for Borehole Correction                  | TBIT-A    | Data_Channel_RMUD |      |
| Tool Control Parameters       |   |           |                   |      |

|          |                    |              |
|----------|--------------------|--------------|
| Company: | LARAMIE ENERGY LLC | Schlumberger |
| Well:    | CC 0697 03 17      |              |
| Field:   | Grand Valley       |              |
| County:  | Garfield           |              |
| Country: |                    |              |

