

Company: XTO Energy, Inc.

Well: Remuda 25 Observation Well 1

Field: Remuda Basin

County: Eddy State: New Mexico

Eddy  
Remuda Basin  
2107' FNL & 485' FWL  
Remuda 25 Observation Well 1  
XTO Energy, Inc.

ARRAY INDUCTION / SPECTRAL DENSITY  
DUAL SPACED NEUTRON / GAMMA RAY / CALIPER

|                                                                                          |                                              |                                       |
|------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------|
| 2107' FNL & 485' FWL<br>Section 25, Township 23 S, Range 29 E<br>Survey Mark Dillon Harp | Elev.:<br>K.B.<br>G.L.<br>D.F.               | 3064.00 ft<br>3070.00 ft              |
| Permanent Datum:<br>Log Measured From:<br>Drilling Measured From:                        | Ground Level<br>Ground Level<br>Ground Level | Elev.:<br>0.00 ft<br>above Perm.Datum |
| API Serial No.<br>30-015-45751                                                           | Section:<br>25                               | Township:<br>23 S<br>Range:<br>29 E   |

Logging Date 12-Mar-2019

Run Number 1A

Depth Driller 1000.00 ft

Schlumberger Depth 1000.00 ft

Bottom Log Interval 1000.00 ft

Top Log Interval 1.00 ft

Casing Driller Size @ Depth 7 in @ 321.00 ft

Casing Schlumberger 321 ft

Bit Size 5.125 in

Type Fluid In Hole Salt Brine

Density 10.4 lbm/gal 44 s

Fluid Loss PH 2.8 cm3 8

MUD Source of Sample Active Tank

RM @ Meas Temp 0.07 ohm.m @ 68 degF

RMF @ Meas Temp 0.06 ohm.m @ 68 degF

RMC @ Meas Temp 0.1 ohm.m @ 68 degF

Source RMF RMC Calculated

RM @ BHT RMF @ BHT 0.06 @ 74 0.06 @ 74

Max Recorded Temperatures 74 degF

Circulation Stopped 12-Mar-2019 04:00:00

Logger on Bottom 12-Mar-2019 09:00:00

Unit Number 9104 Midland

Recorded By Brenton Atkinson

Witnessed By Hannah Kadir

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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Remarks and Equipment Summary

1A: Toolstring

1A: Remarks

| Equip name | Length | MP name          | Offset |
|------------|--------|------------------|--------|
| PEH-EFA    | 55.99  |                  |        |
| AH-317-TB  | 53.63  |                  |        |
| TBCCL-A    | 52.57  |                  |        |
| TMG-A:102  | 50.86  | CCL              | 50.86  |
|            |        | Gamma-Ray        | 50.06  |
| TILE-AB    | 44.73  | Status           | 44.73  |
| TBN-B:66   | 40.23  |                  |        |
|            |        | Neutron Porosity | 37.92  |
| TBLA-A:20  | 35.46  |                  |        |
|            |        | Laterolog        | 23.26  |

Logging objectives: Well evaluation.

All tools ran as per tool sketch.

All logs affected by borehole conditions.

Your crew today has been Brenton, Hector, Adrian and Carlos.

Thankyou for choosing Schlumberger ThruBit/

ThruBit level 1 Real time log on Wireline cable.

Third Party Gyro ran for Imager/Sonic processing.



TBD-B:31 10.64  
TBD-B:31  
GGLS-FZ:321  
6

Density L 2.11  
S  
Caliper 1.99  
Density S 1.73  
S

TBNZ-AA 0.16  
TOOL\_ZERO  
Lengths are in ft  
Maximum Outer Diameter = 2.125 in  
Line: Sensor Location, Value: Gating Offset  
All measurements are relative to TOOL\_ZERO

1A

TRIPLE COMBO 5 INCH

Software Version

| Acquisition System | Version                                    |
|--------------------|--------------------------------------------|
| Maxwell 2018 SP1   | 8.1.99839.3100                             |
| Application Patch  | Wireline_Testkit-CMR-NG-2018SP1_8.1.102925 |

Pass Summary

| Run Name | Pass Objective | Direction | Top      | Bottom     | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| 1A       | Log[4]:Up      | Up        | 41.03 ft | 1004.96 ft | 12-Mar-2019 8:59:31 AM | 12-Mar-2019 9:28:07 AM | ON       | 0.00 ft     | Yes                   |

All depths are referenced to toolstring zero

Log

Company:XTO Energy, Inc. Well:Remuda 25 Observation Well 1

1A: Log[4]:Up:S009

Description: Format: Log ( TCOM ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Mar-2019 20:53:06

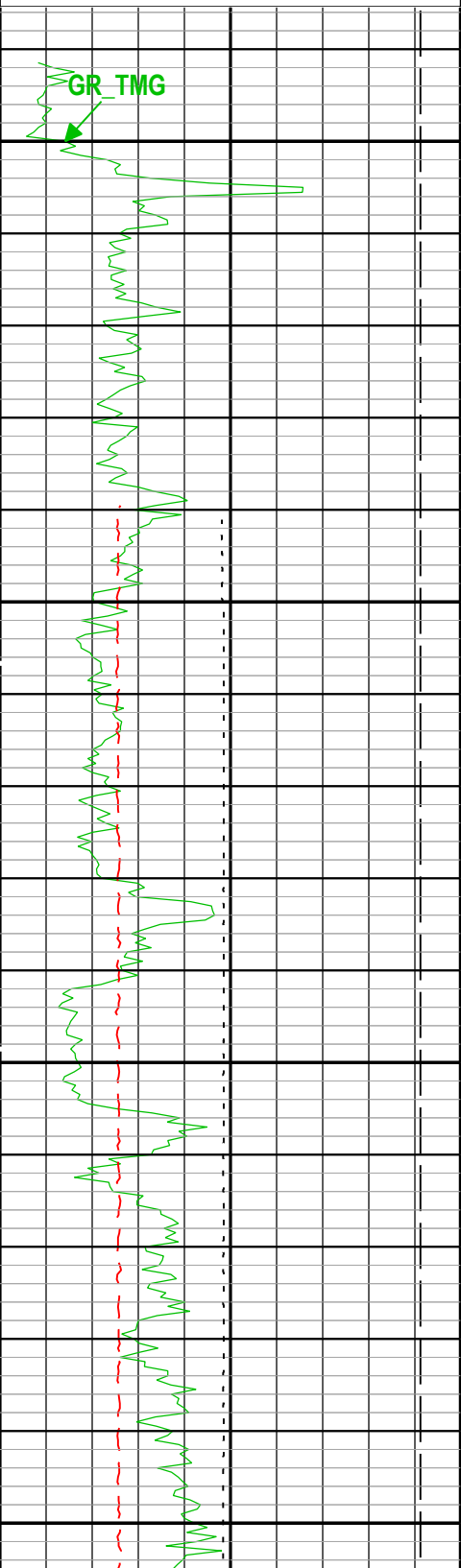
TIME\_1900 - Time Marked every 60.00 (s)

|                                               |
|-----------------------------------------------|
| Bulk Density<br>Correction (DRHO)<br>TBD-B RT |
| -0.25 g/cm3 0.25                              |

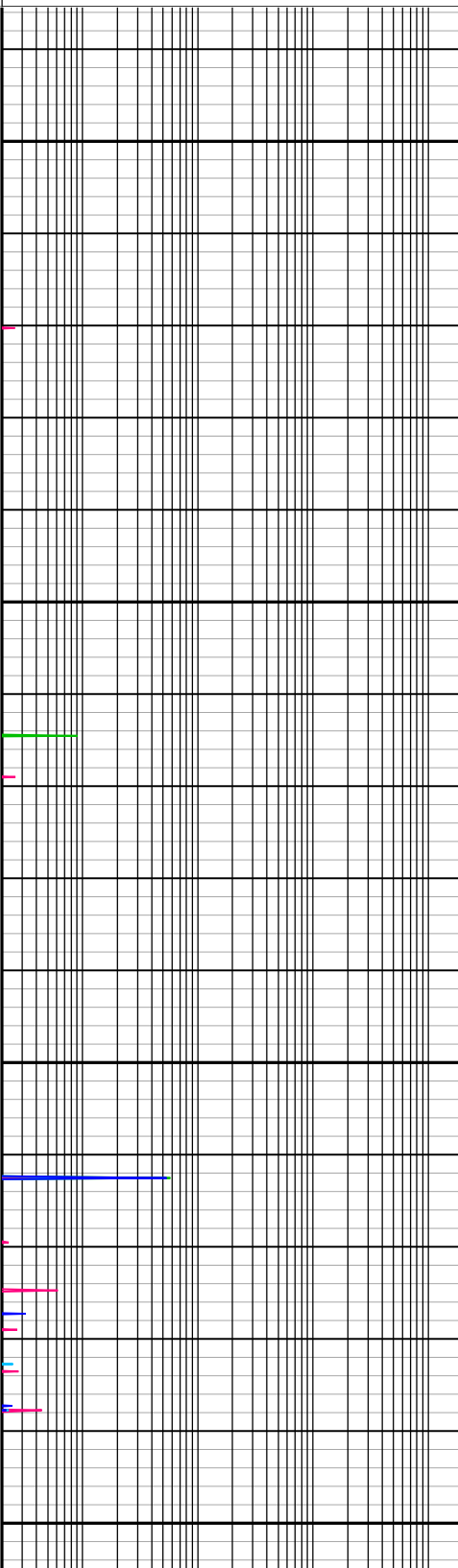
Apparent Resistivity from Computed Focusing  
Mode 4 (RLA4) TBLA-A RT

|                                        |
|----------------------------------------|
| Photoelectric Factor<br>(PEF) TBD-B RT |
| 0 10                                   |

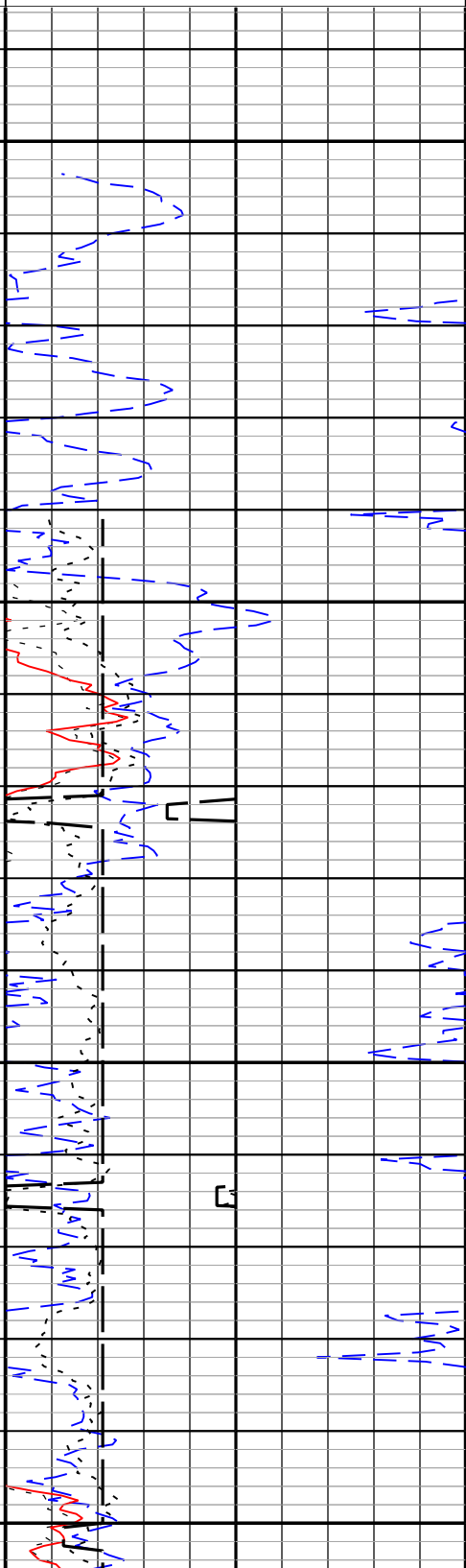
|                                        |      |     |
|----------------------------------------|------|-----|
| Cable Tension (TENS)                   |      |     |
| 10000                                  | lbf  | 0   |
| Calibrated Gamma Ray (GR_TMG) TMG-A RT |      |     |
| 0                                      | gAPI | 150 |
| Caliper (CALI) TBD-B RT                |      |     |
| 4                                      | in   | 14  |
| Bit Size (BS) RT                       |      |     |
| 6                                      | in   | 16  |

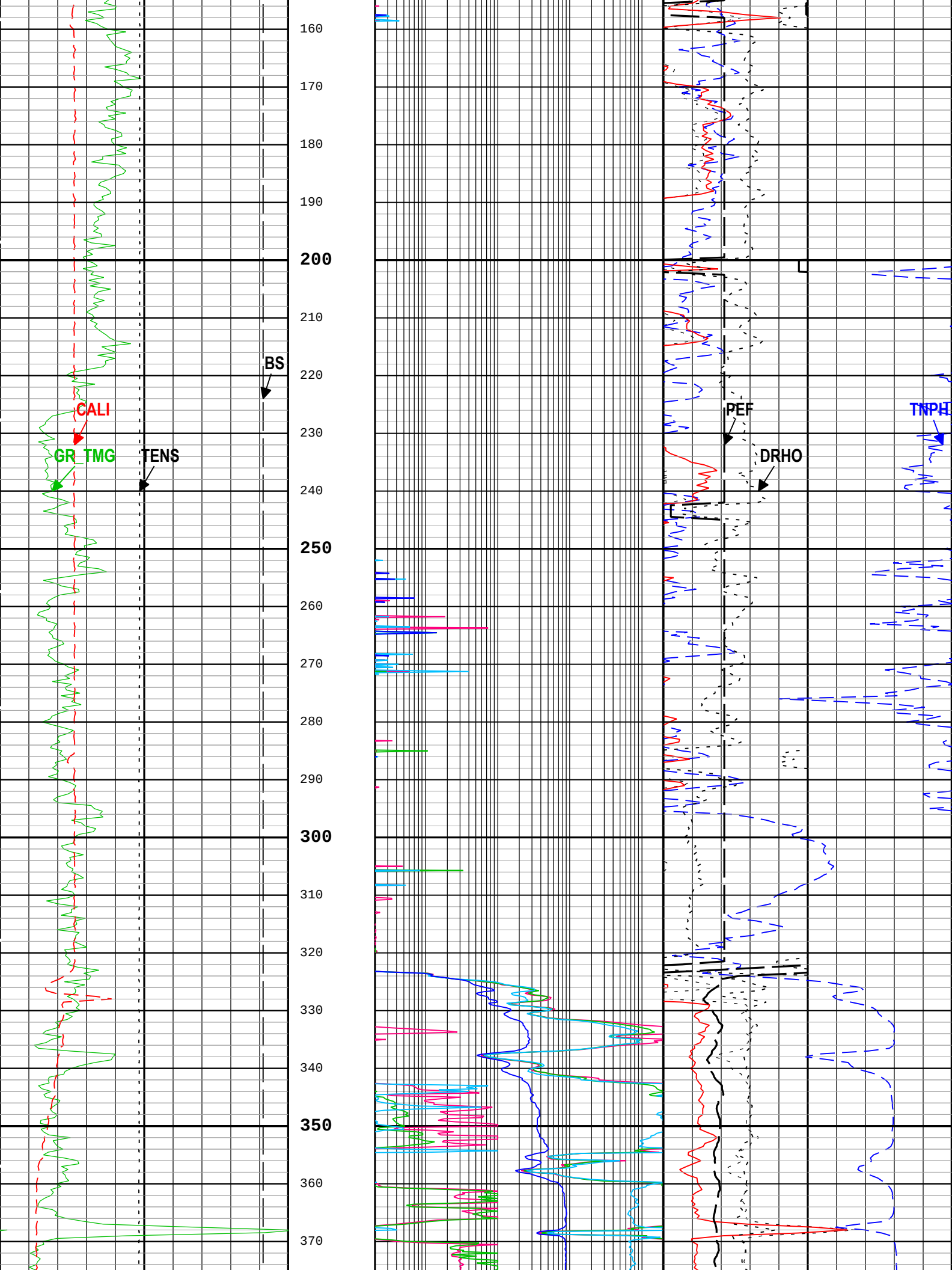


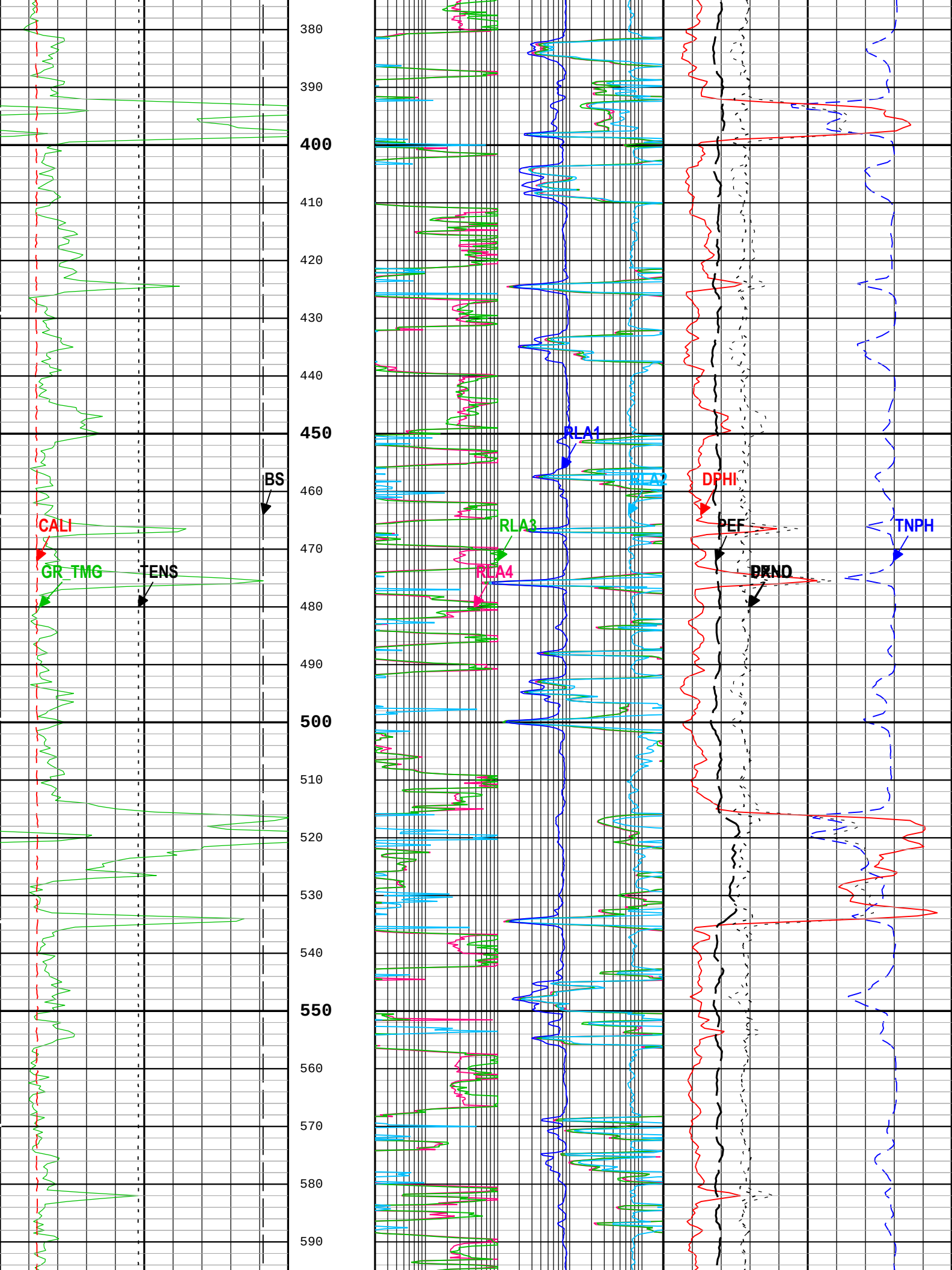
|                                                                     |       |      |
|---------------------------------------------------------------------|-------|------|
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 3 (RLA3) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 2 (RLA2) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 1 (RLA1) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |

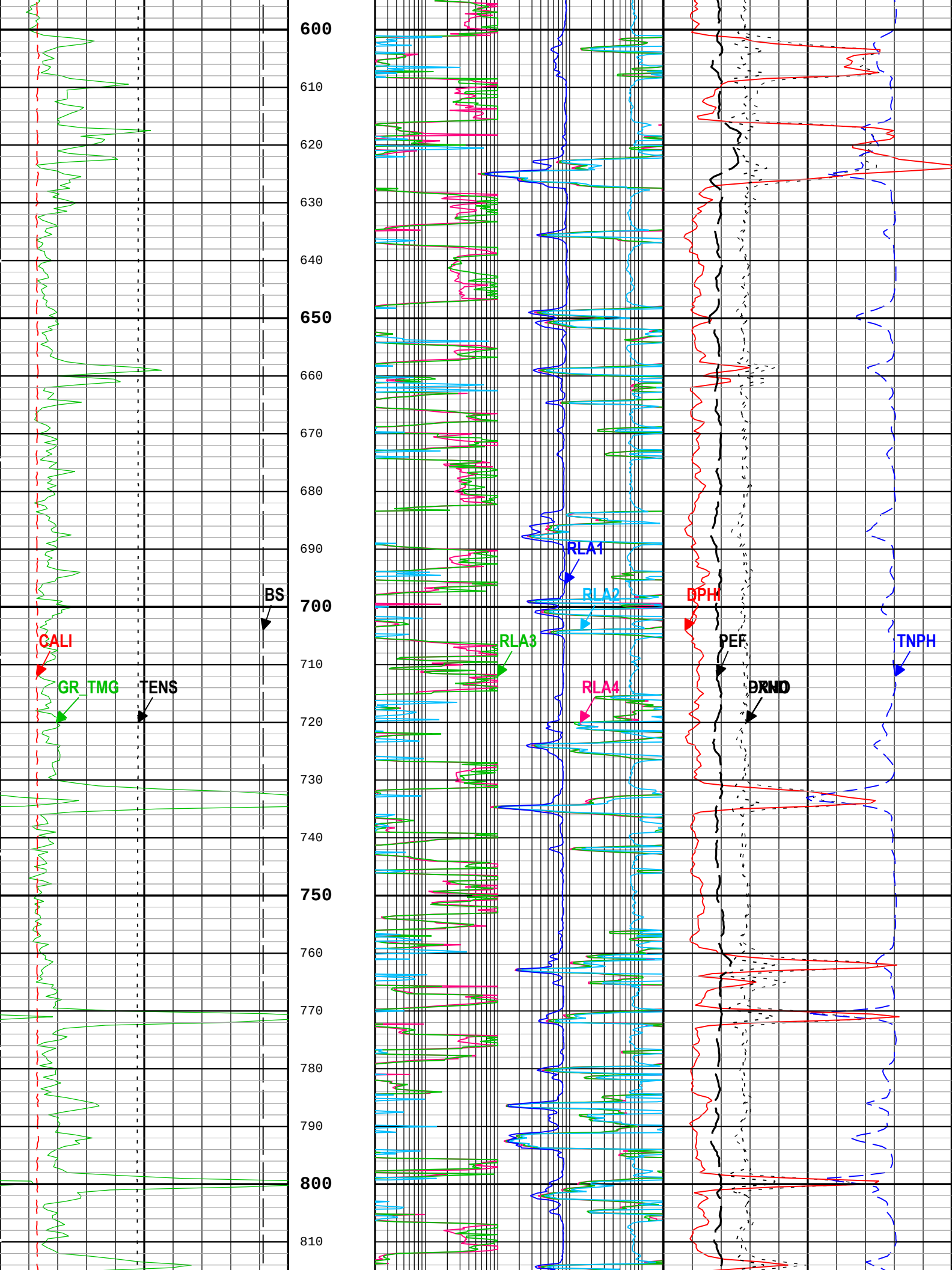


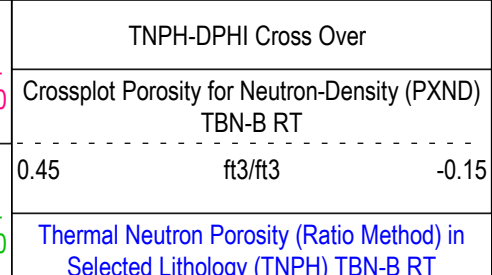
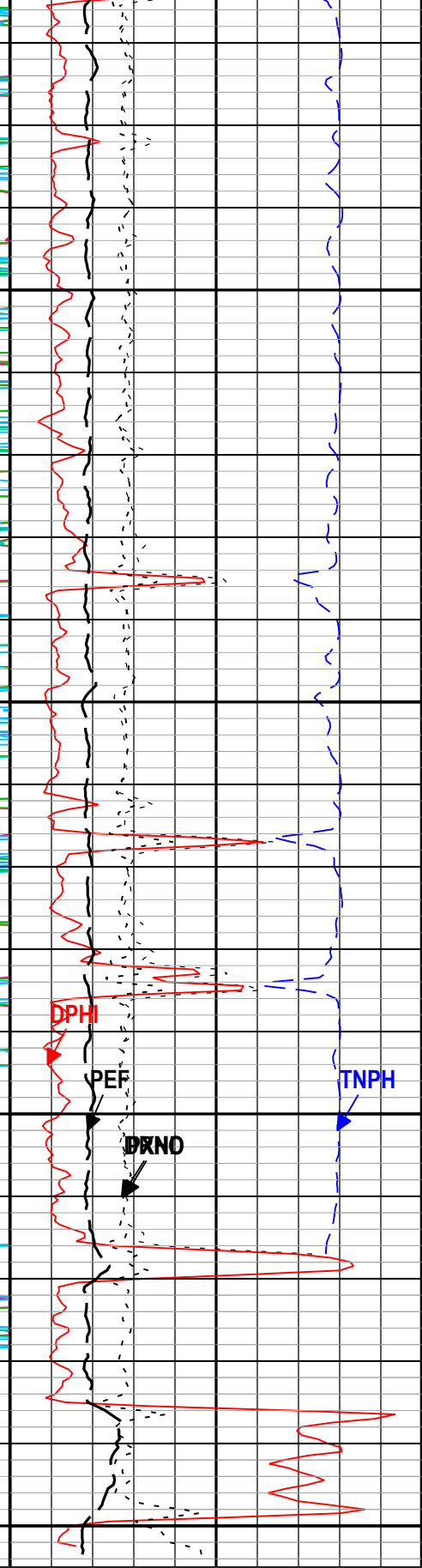
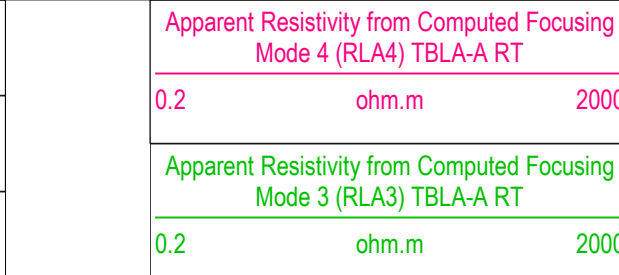
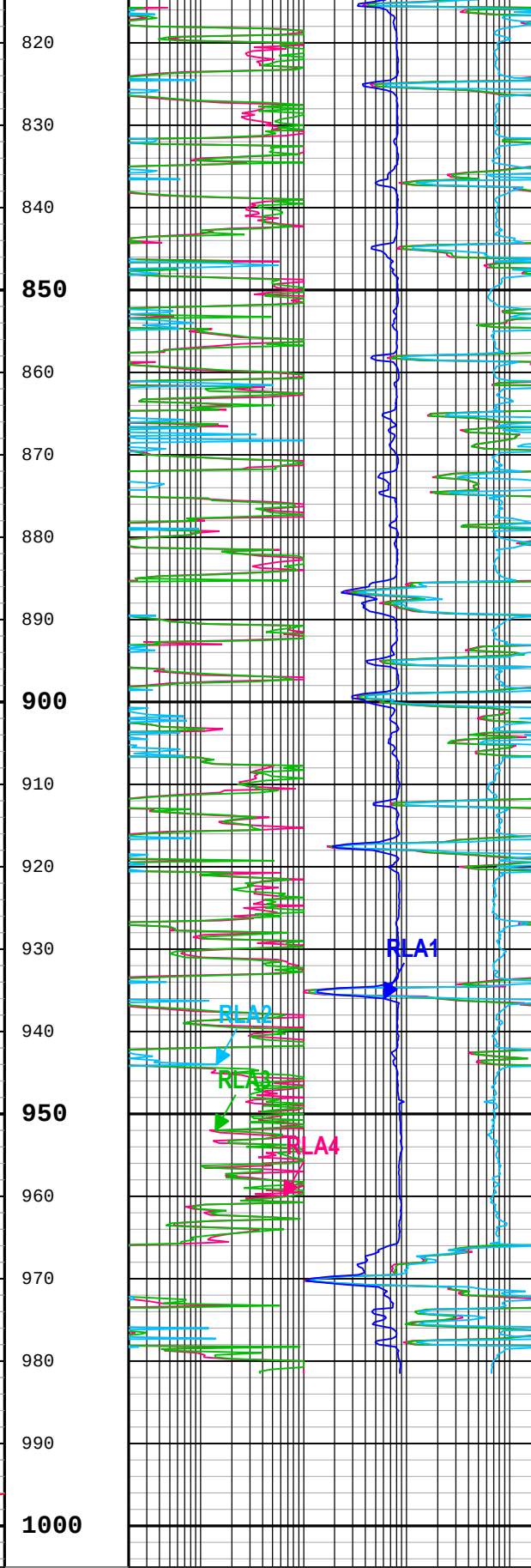
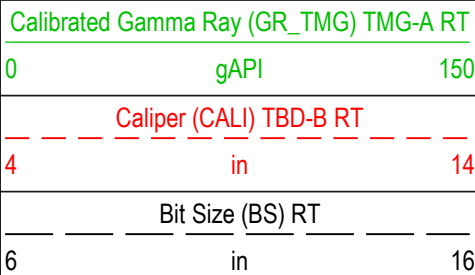
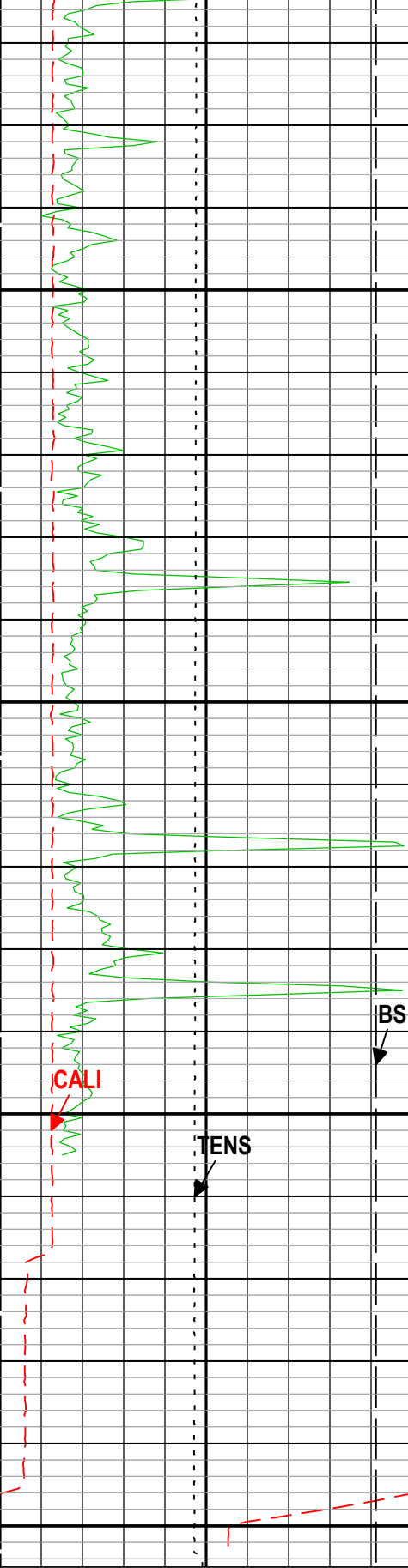
|                                                                               |         |       |
|-------------------------------------------------------------------------------|---------|-------|
| TNPH-DPHI Cross Over                                                          |         |       |
| Crossplot Porosity for Neutron-Density (PXND) TBN-B RT                        |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |
| Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) TBN-B RT |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |
| Density Porosity (DPHI) TBD-B RT                                              |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |













|                      |     |   |                                                                        |       |      |                                            |       |      |
|----------------------|-----|---|------------------------------------------------------------------------|-------|------|--------------------------------------------|-------|------|
| Cable Tension (TENS) |     |   | Apparent Resistivity from Computed Focusing<br>Mode 2 (RLA2) TBLA-A RT |       |      | 0.45ft3/ft3-0.15                           |       |      |
| 10000                | lbf | 0 | 0.2                                                                    | ohm.m | 2000 | Density Porosity (DPHI) TBD-B RT           |       |      |
|                      |     |   | Apparent Resistivity from Computed Focusing<br>Mode 1 (RLA1) TBLA-A RT |       |      | 0.45ft3/ft3-0.15                           |       |      |
|                      |     |   | 0.2                                                                    | ohm.m | 2000 | Bulk Density Correction (DRHO)<br>TBD-B RT |       |      |
|                      |     |   |                                                                        |       |      | -0.25                                      | g/cm3 | 0.25 |
|                      |     |   |                                                                        |       |      | Photoelectric Factor (PEF) TBD-B RT        |       |      |
|                      |     |   |                                                                        |       |      | 0                                          |       | 10   |

TIME\_1900 - Time Marked every 60.00 (s)

Description:    Format: Log ( TCOM )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 12-Mar-2019 20:53:06

Channel Processing Parameters

1A: Parameters

| Parameter           | Description                                                         | Tool            | Value           | Unit    |
|---------------------|---------------------------------------------------------------------|-----------------|-----------------|---------|
| BHS                 | Borehole Status (Open or Cased Hole)                                | Borehole        | Depth Zoned     |         |
| BS                  | Bit Size                                                            | WLSESSION       | 5.125           | in      |
| BSAL                | Borehole Salinity                                                   | Borehole        | 247000          | ppm     |
| BSCO                | Borehole Salinity Correction Option                                 | TBN-B           | No              |         |
| CALI_SHIFT          | CALI Supplementary Offset                                           | TBD-B           | 0               | in      |
| CBLO                | Casing Bottom (Logger)                                              | WLSESSION       | 321             | ft      |
| CQCO                | Cement Quality Correction Option                                    | TBN-B           | No              |         |
| CSAL                | Cement Salinity                                                     | TBN-B           | 0               | ppm     |
| CSCOR               | Cement Salinity Correction Option                                   | TBN-B           | No              |         |
| DC_MODE             | Depth Correction Mode                                               | DepthCorrection | Real-time       |         |
| DFD                 | Drilling Fluid Density                                              | Borehole        | 10.4            | lbm/gal |
| DFT_CATEGORY        | Drilling Fluid Type                                                 | Borehole        | Water           |         |
| DHC                 | Density Hole Correction                                             | TBD-B           | Bit Size        |         |
| ECCO                | Eccentricity Coorection Option                                      | TBN-B           | No              |         |
| FD                  | Fluid Density                                                       | Borehole        | 1               | g/cm3   |
| FSAL                | Formation Salinity                                                  | Borehole        | 0               | ppm     |
| FSCO                | Formation Salinity Correction Option                                | TBN-B           | No              |         |
| 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        | CALI(RT)        |         |
| HSCOT               | Hole Size Correction Option (None, Bit Size, Density Caliper, GCSE) | TBN-B           | GCSE            |         |
| TBLA_BHC_OP         | TBLA Hole Size Correction Option (Bit Size, Density Caliper, GCSE)  | TBLA-A          | Density Caliper |         |
| TBN_WPRE            | Well Pressure for Horizontal Section                                | TBN-B           | 0               | psi     |
| MATR                | Rock Matrix for Neutron Porosity Corrections                        | Borehole        | LIMESTONE       |         |
| MDEN                | Matrix Density for Density Porosity                                 | Borehole        | 2.71            | g/cm3   |
| TBLA_MSO            | TBLA Standoff (if negative, tool is centered)                       | TBLA-A          | 0               | in      |
| MWCO                | Mud Weight Correction Option                                        | TBN-B           | No              |         |
| PTCO                | Pressure Temperature Correction Option                              | TBN-B           | No              |         |
| SOCN                | Standoff Distance                                                   | TBN-B           | 0.125           | in      |
| SOCO                | Standoff Correction Option                                          | TBN-B           | No              |         |
| TBD_SPIKE_REJECT    | Spike Detection Option                                              | TBD-B           | Correct         |         |
| TBD_SPIKE_THRESHOLD | Attenuation Change Threshold for Spike Detection                    | TBD-B           | 5               | %       |
| TBN_ALGO            | TBN Porosity Algorithm Option                                       | TBN-B           | Schmid_McKeon   |         |

Depth Zone Parameters

| Parameter | Value | Start ( ft ) | Stop ( ft ) |
|-----------|-------|--------------|-------------|
| BHS       | Cased | 0            | 321         |
| BHS       | Open  | 321          | 1005        |

All depth are actual.

Tool Control Parameters

1A

TRIPLE COMBO 5 INCH REPEAT

Software Version

| Acquisition System | Version                                    |
|--------------------|--------------------------------------------|
| Maxwell 2018 SP1   | 8.1.99839.3100                             |
| Application Patch  | Wireline_Testkit-CMR-NG-2018SP1_8.1.102925 |

Pass Summary

| Run Name | Pass Objective | Direction | Top       | Bottom     | Start                  | Stop                   | DSC Mode | Depth Shift | Include Parallel Data |
|----------|----------------|-----------|-----------|------------|------------------------|------------------------|----------|-------------|-----------------------|
| 1A       | Log[2]:Up      | Up        | 755.69 ft | 1004.58 ft | 12-Mar-2019 8:44:53 AM | 12-Mar-2019 8:53:30 AM | ON       | 0.00 ft     | Yes                   |

All depths are referenced to toolstring zero

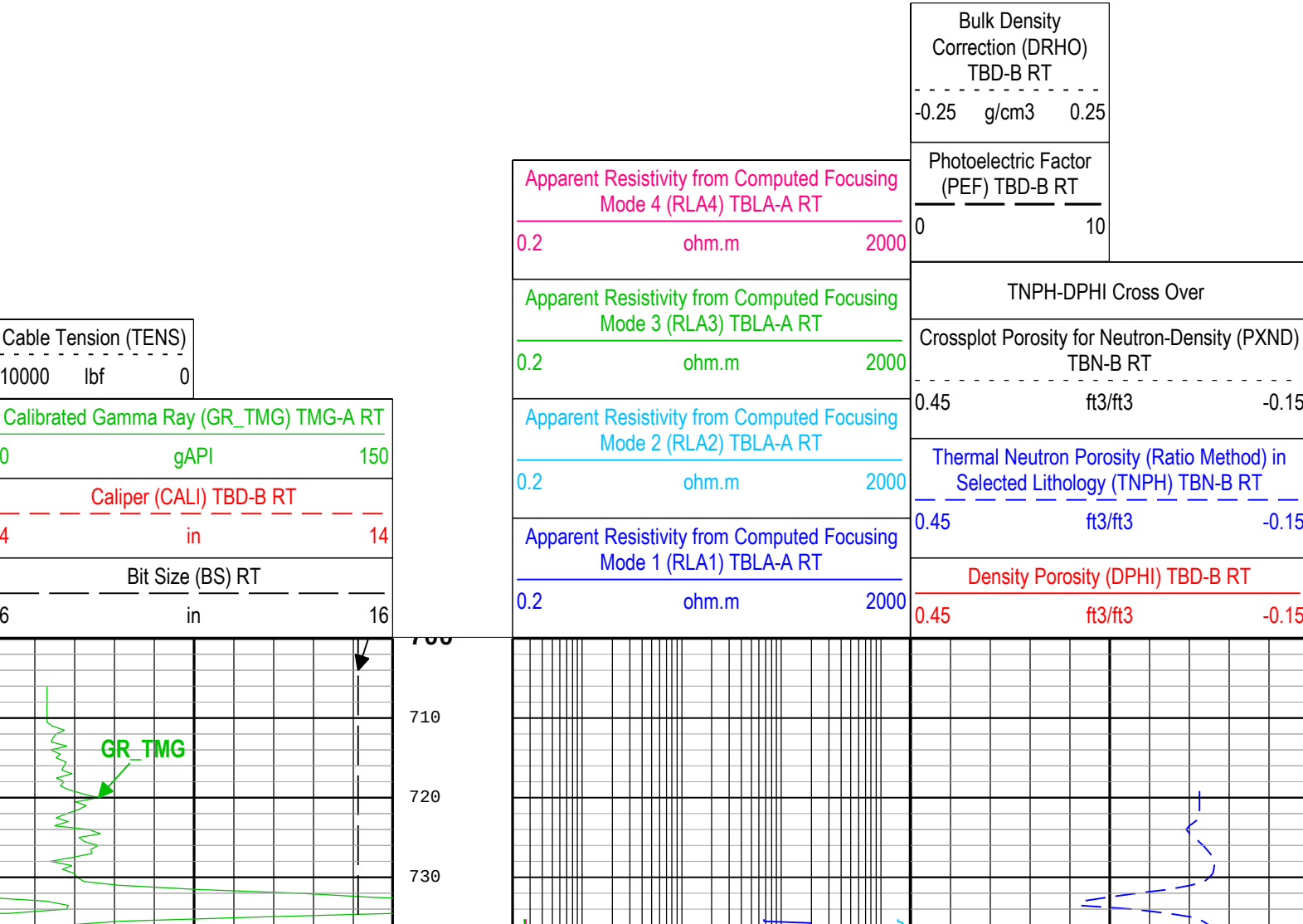
Log

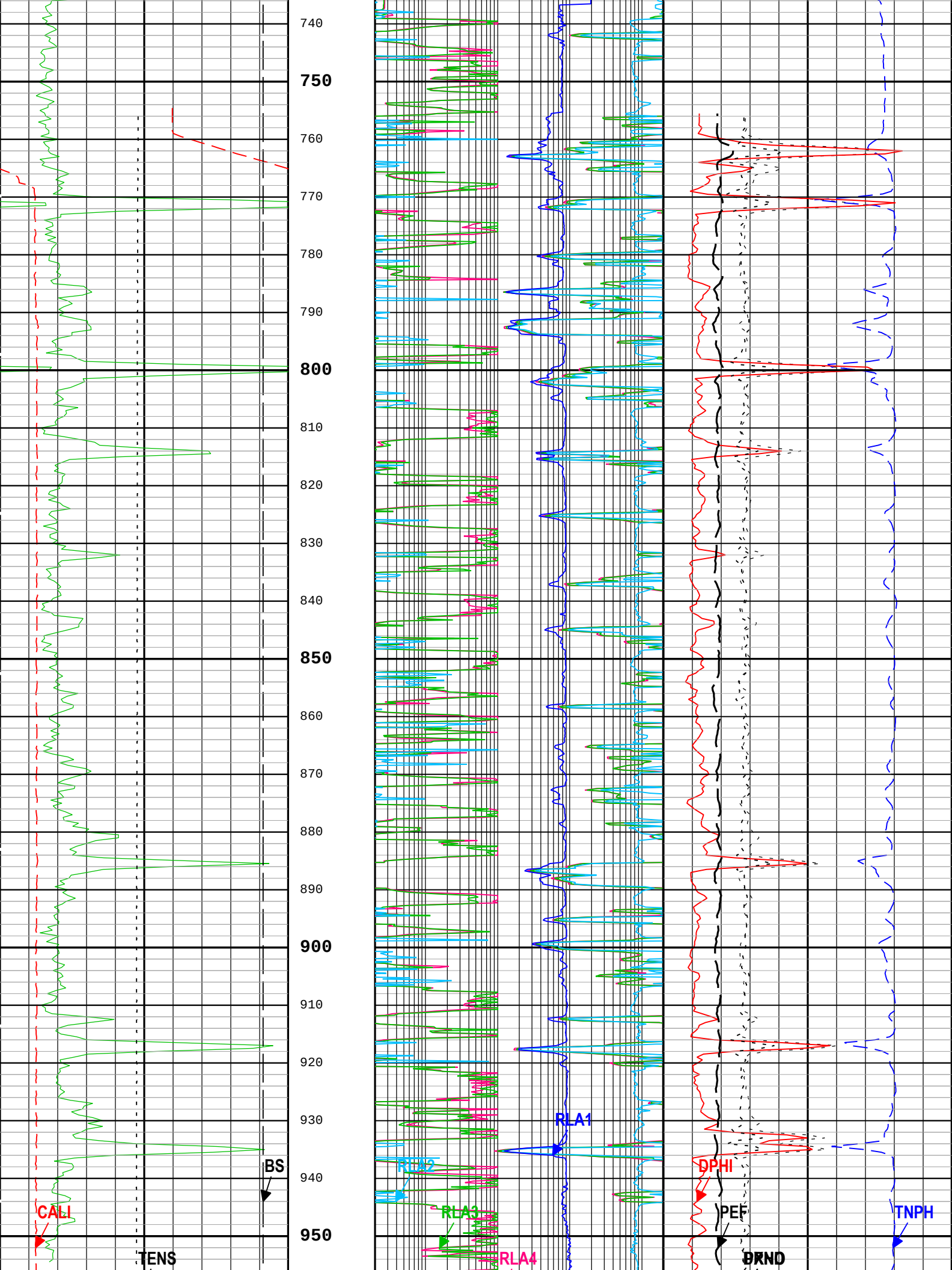
Company:XTO Energy, Inc. Well:Remuda 25 Observation Well 1

1A: Log[2]:Up:S009

Description: Format: Log ( TCOM ) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 12-Mar-2019 20:53:07

TIME\_1900 - Time Marked every 60.00 (s)







|                                        |      |     |
|----------------------------------------|------|-----|
| Calibrated Gamma Ray (GR_TMG) TMG-A RT |      |     |
| 0                                      | gAPI | 150 |
| Caliper (CALI) TBD-B RT                |      |     |
| 4                                      | in   | 14  |
| Bit Size (BS) RT                       |      |     |
| 6                                      | in   | 16  |

|                      |     |   |
|----------------------|-----|---|
| Cable Tension (TENS) |     |   |
| 10000                | lbf | 0 |

|                                                                     |       |      |
|---------------------------------------------------------------------|-------|------|
| Apparent Resistivity from Computed Focusing Mode 4 (RLA4) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 3 (RLA3) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 2 (RLA2) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |
| Apparent Resistivity from Computed Focusing Mode 1 (RLA1) TBLA-A RT |       |      |
| 0.2                                                                 | ohm.m | 2000 |

|                                                                               |         |       |
|-------------------------------------------------------------------------------|---------|-------|
| TNPH-DPHI Cross Over                                                          |         |       |
| Crossplot Porosity for Neutron-Density (PXND) TBN-B RT                        |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |
| Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) TBN-B RT |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |
| Density Porosity (DPHI) TBD-B RT                                              |         |       |
| 0.45                                                                          | ft3/ft3 | -0.15 |
| Bulk Density Correction (DRHO) TBD-B RT                                       |         |       |
| -0.25                                                                         | g/cm3   | 0.25  |
| Photoelectric Factor (PEF) TBD-B RT                                           |         |       |
| 0                                                                             |         | 10    |

TIME\_1900 - Time Marked every 60.00 (s)

Description:    Format: Log ( TCOM )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured Depth    Creation Date: 12-Mar-2019 20:53:07

## Channel Processing Parameters

### 1A: Parameters

| Parameter    | Description                          | Tool            | Value     | Unit    |
|--------------|--------------------------------------|-----------------|-----------|---------|
| BHS          | Borehole Status (Open or Cased Hole) | Borehole        | Open      |         |
| BS           | Bit Size                             | WLSESSION       | 5.125     | in      |
| BSAL         | Borehole Salinity                    | Borehole        | 247000    | ppm     |
| BSCO         | Borehole Salinity Correction Option  | TBN-B           | No        |         |
| CALI_SHIFT   | CALI Supplementary Offset            | TBD-B           | 0         | in      |
| CBLO         | Casing Bottom (Logger)               | WLSESSION       | 321       | ft      |
| CQCO         | Cement Quality Correction Option     | TBN-B           | No        |         |
| CSAL         | Cement Salinity                      | TBN-B           | 0         | ppm     |
| CSCOR        | Cement Salinity Correction Option    | TBN-B           | No        |         |
| DC_MODE      | Depth Correction Mode                | DepthCorrection | Real-time |         |
| DFD          | Drilling Fluid Density               | Borehole        | 10.4      | lbm/gal |
| DFT_CATEGORY | Drilling Fluid Type                  | Borehole        | Water     |         |
| DHC          | Density Hole Correction              | TBD-B           | Bit Size  |         |
| ECCO         | Eccentricity Coorection Option       | TBN-B           | No        |         |
| FD           | Fluid Density                        | Borehole        | 1         | g/cm3   |

|                     |                                                                     |          |                 |       |
|---------------------|---------------------------------------------------------------------|----------|-----------------|-------|
| FSAL                | Formation Salinity                                                  | Borehole | 0               | ppm   |
| FSCO                | Formation Salinity Correction Option                                | TBN-B    | No              |       |
| 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 | CALI(RT)        |       |
| HSCOT               | Hole Size Correction Option (None, Bit Size, Density Caliper, GCSE) | TBN-B    | GCSE            |       |
| TBLA_BHC_OP         | TBLA Hole Size Correction Option (Bit Size, Density Caliper, GCSE)  | TBLA-A   | Density Caliper |       |
| TBN_WPRE            | Well Pressure for Horizontal Section                                | TBN-B    | 0               | psi   |
| MATR                | Rock Matrix for Neutron Porosity Corrections                        | Borehole | LIMESTONE       |       |
| MDEN                | Matrix Density for Density Porosity                                 | Borehole | 2.71            | g/cm3 |
| TBLA_MSO            | TBLA Standoff (if negative, tool is centered)                       | TBLA-A   | 0               | in    |
| MWCO                | Mud Weight Correction Option                                        | TBN-B    | No              |       |
| PTCO                | Pressure Temperature Correction Option                              | TBN-B    | No              |       |
| SOCN                | Standoff Distance                                                   | TBN-B    | 0.125           | in    |
| SOCO                | Standoff Correction Option                                          | TBN-B    | No              |       |
| TBD_SPIKE_REJECT    | Spike Detection Option                                              | TBD-B    | Correct         |       |
| TBD_SPIKE_THRESHOLD | Attenuation Change Threshold for Spike Detection                    | TBD-B    | 5               | %     |
| TBN_ALGO            | TBN Porosity Algorithm Option                                       | TBN-B    | Schmid_McKeon   |       |

## Tool Control Parameters

## Calibration Report

|                                                             |         |      |  |
|-------------------------------------------------------------|---------|------|--|
| TBD-B (ThruBit Density Tool version B) Calibration - Run 1A |         |      |  |
| Primary Equipment :                                         |         |      |  |
| ThruBit Density Sonde Version B                             | TBD-B   | 31   |  |
| Auxiliary Equipment :                                       |         |      |  |
| Gamma-Ray Logging Source Version FZ                         | GGLS-FZ | 3216 |  |

|                                                 |      |                      |         |           |         |            |                                                         |
|-------------------------------------------------|------|----------------------|---------|-----------|---------|------------|---------------------------------------------------------|
| TBD Caliper Calibration - Caliper Accumulations |      |                      |         |           |         |            |                                                         |
| Master (File):                                  |      | 21:14:14 14-Feb-2019 |         |           |         |            |                                                         |
| Measurement                                     | Unit | Phase                | Nominal | Low Limit | Actual  | High Limit | <div><div></div><div></div></div>                       |
| Caliper 12in Ring                               |      | Master               | 1949.00 | 1799.80   | 1911.57 | 2099.80    | <div><div></div><div></div><div></div><div></div></div> |
| Caliper 9in Ring                                |      | Master               | 2096.70 | 1946.70   | 2078.90 | 2246.70    | <div><div></div><div></div><div></div><div></div></div> |
| Caliper 6in Ring                                |      | Master               | 2285.70 | 2135.70   | 2243.55 | 2435.70    | <div><div></div><div></div><div></div><div></div></div> |

|                                                |       |                      |         |           |        |            |                                                         |
|------------------------------------------------|-------|----------------------|---------|-----------|--------|------------|---------------------------------------------------------|
| TBD Density Calibration - Density Coefficients |       |                      |         |           |        |            |                                                         |
| Master (File):                                 |       | 22:34:32 14-Feb-2019 |         |           |        |            |                                                         |
| Measurement                                    | Unit  | Phase                | Nominal | Low Limit | Actual | High Limit | <div><div></div><div></div></div>                       |
| LS Slope                                       |       | Master               | 0.415   |           | 0.426  |            | <div><div></div><div></div></div>                       |
| SS Slope                                       |       | Master               | 1.645   |           | 1.696  |            | <div><div></div><div></div></div>                       |
| Photoelectric Factor B                         |       | Master               | -0.555  |           | -0.347 |            | <div><div></div><div></div></div>                       |
| Photoelectric Factor K                         |       | Master               | 4.840   |           | 11.775 |            | <div><div></div><div></div></div>                       |
| Magnesium RHOSS                                | g/cm3 | Master               | 1.670   | 1.635     | 1.674  | 1.705      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium RHOLS                                | g/cm3 | Master               | 1.688   | 1.663     | 1.696  | 1.713      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium RHOB                                 | g/cm3 | Master               | 1.704   | 1.687     | 1.714  | 1.721      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium PEF                                  |       | Master               | 2.521   | 2.370     | 2.511  | 2.670      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium + Sleeve RHOSS                       | g/cm3 | Master               | 2.152   | 2.092     | 2.132  | 2.212      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium + Sleeve RHOLS                       | g/cm3 | Master               | 1.855   | 1.795     | 1.855  | 1.915      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium + Sleeve RHOB                        | g/cm3 | Master               | 1.606   | 1.578     | 1.628  | 1.634      | <div><div></div><div></div><div></div><div></div></div> |
| Magnesium + SLeeve PEF                         |       | Master               | 6.800   | 5.100     | 8.146  | 8.500      | <div><div></div><div></div><div></div><div></div></div> |

|                                                 |      |                      |         |           |         |            |                                                         |
|-------------------------------------------------|------|----------------------|---------|-----------|---------|------------|---------------------------------------------------------|
| TBD Density Calibration - Density Accumulations |      |                      |         |           |         |            |                                                         |
| Master (File):                                  |      | 22:34:32 14-Feb-2019 |         |           |         |            |                                                         |
| Measurement                                     | Unit | Phase                | Nominal | Low Limit | Actual  | High Limit | <div><div></div><div></div></div>                       |
| LS1 Background                                  | 1/s  | Master               | 143.000 | 100.000   | 122.786 | 186.000    | <div><div></div><div></div><div></div><div></div></div> |
| LS2 Background                                  | 1/s  | Master               | 37.000  | 26.000    | 30.667  | 48.000     | <div><div></div><div></div><div></div><div></div></div> |
| LS3 Background                                  | 1/s  | Master               | 22.000  | 15.000    | 18.812  | 29.000     | <div><div></div><div></div><div></div><div></div></div> |
| LS4 Background                                  | 1/s  | Master               | 30.000  | 20.000    | 25.947  | 40.000     | <div><div></div><div></div><div></div><div></div></div> |
| LS1 Aluminium                                   | 1/s  | Master               | 1220.00 | 850.00    | 953.55  | 1590.00    | <div><div></div><div></div><div></div><div></div></div> |

|                        |     |        |          |         |          |          |                                                                    |
|------------------------|-----|--------|----------|---------|----------|----------|--------------------------------------------------------------------|
| LS2 Aluminium          | 1/s | Master | 1140.00  | 800.00  | 897.83   | 1480.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS3 Aluminium          | 1/s | Master | 1080.00  | 760.00  | 867.31   | 1400.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS4 Aluminium          | 1/s | Master | 830.00   | 580.00  | 672.47   | 1080.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS1 Magnesium + Sleeve | 1/s | Master |          |         | 4059.38  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS2 Magnesium + Sleeve | 1/s | Master |          |         | 3818.38  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS3 Magnesium + Sleeve | 1/s | Master |          |         | 2854.97  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS4 Magnesium + Sleeve | 1/s | Master |          |         | 1635.27  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS1 Magnesium          | 1/s | Master | 8260.00  | 5780.00 | 6208.16  | 10740.00 | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS2 Magnesium          | 1/s | Master | 7790.00  | 5450.00 | 6062.82  | 10130.00 | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS3 Magnesium          | 1/s | Master | 6920.00  | 4840.00 | 5579.36  | 9000.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| LS4 Magnesium          | 1/s | Master | 4950.00  | 3470.00 | 4053.22  | 6440.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS1 Background         | 1/s | Master | 143.000  | 100.000 | 110.432  | 186.000  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS2 Background         | 1/s | Master | 38.000   | 27.000  | 29.060   | 50.000   | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS3 Background         | 1/s | Master | 23.000   | 16.000  | 17.460   | 30.000   | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS4 Background         | 1/s | Master | 31.000   | 22.000  | 25.148   | 40.000   | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS1 Aluminium          | 1/s | Master | 7900.00  | 5530.00 | 6223.61  | 10270.00 | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS2 Aluminium          | 1/s | Master | 4050.00  | 2840.00 | 3351.96  | 5270.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS3 Aluminium          | 1/s | Master | 3420.00  | 2400.00 | 2905.17  | 4450.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS4 Aluminium          | 1/s | Master | 3360.00  | 2350.00 | 2918.14  | 3700.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS1 Magnesium + Sleeve | 1/s | Master |          |         | 6687.10  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS2 Magnesium + Sleeve | 1/s | Master |          |         | 3572.65  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS3 Magnesium + Sleeve | 1/s | Master |          |         | 2381.56  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS4 Magnesium + Sleeve | 1/s | Master |          |         | 1784.74  |          | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS1 Magnesium          | 1/s | Master | 13160.00 | 9200.00 | 10170.78 | 17100.00 | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS2 Magnesium          | 1/s | Master | 6840.00  | 4800.00 | 5587.21  | 8890.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS3 Magnesium          | 1/s | Master | 5500.00  | 3850.00 | 4626.22  | 7150.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |
| SS4 Magnesium          | 1/s | Master | 5320.00  | 3720.00 | 4585.48  | 6920.00  | <div><div></div><div></div><div></div><div></div><div></div></div> |

| TBN-B (ThruBit Neutron Tool version B) Calibration - Run 1A |          |      |  |
|-------------------------------------------------------------|----------|------|--|
| Primary Equipment :                                         |          |      |  |
| ThruBit Neutron Sonde Version B                             | TBN-B    | 66   |  |
| Auxiliary Equipment :                                       |          |      |  |
| Neutron Logging Source Version EWA                          | NNLS-EWA | 5974 |  |
| Calibration Parameter :                                     |          |      |  |
| Water Temperature (Calibration Tank Water Temperature)      | 52.3     |      |  |

|                                                        |      |                      |         |           |         |            |                                                                    |
|--------------------------------------------------------|------|----------------------|---------|-----------|---------|------------|--------------------------------------------------------------------|
| <b>TBN Nuclear Calibration - Nuclear Coefficients</b>  |      |                      |         |           |         |            |                                                                    |
| Master (File):                                         |      | 18:08:48 05-Mar-2019 |         |           |         |            |                                                                    |
| Measurement                                            | Unit | Phase                | Nominal | Low Limit | Actual  | High Limit | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Down Count Rate Ratio                        |      | Master               | 11.128  | 10.300    | 11.851  | 12.300     | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Up Count Rate Ratio                          |      | Master               | 2.630   | 2.300     | 2.947   | 3.500      | <div><div></div><div></div><div></div><div></div><div></div></div> |
| <b>TBN Nuclear Calibration - Nuclear Accumulations</b> |      |                      |         |           |         |            |                                                                    |
| Master (File):                                         |      | 18:08:48 05-Mar-2019 |         |           |         |            |                                                                    |
| Measurement                                            | Unit | Phase                | Nominal | Low Limit | Actual  | High Limit | <div><div></div><div></div><div></div><div></div><div></div></div> |
| Background Near Count Rate - TNN                       | 1/s  | Master               | 1.000   | 0         | 0.000   | 2.000      | <div><div></div><div></div><div></div><div></div><div></div></div> |
| Background Far Count Rate - TNF                        | 1/s  | Master               | 1.000   | 0         | 0.100   | 2.000      | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Down Near Count Rate - TNN                   | 1/s  | Master               | 18350.0 | 6100.0    | 19066.7 | 36700.0    | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Down Far Count Rate - TNF                    | 1/s  | Master               | 1750.0  | 580.0     | 1608.8  | 3500.0     | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Up Near Count Rate - TNN                     | 1/s  | Master               | 69600.0 | 23200.0   | 87941.4 | 139200.0   | <div><div></div><div></div><div></div><div></div><div></div></div> |
| AI Sleeve Up Far Count Rate - TNF                      | 1/s  | Master               | 27990.0 | 9330.0    | 29841.8 | 56000.0    | <div><div></div><div></div><div></div><div></div><div></div></div> |

|                                                                                |      |                      |         |           |        |            |  |
|--------------------------------------------------------------------------------|------|----------------------|---------|-----------|--------|------------|--|
| TMG-A (ThruBit Telemetry Memory Gamma - 2 1/8in - 10 pin) Calibration - Run 1A |      |                      |         |           |        |            |  |
| Primary Equipment :                                                            |      |                      |         |           |        |            |  |
| ThruBit Telemetry Gamma Sonde Version A                                        |      |                      |         | TMG-A     |        | 102        |  |
| TMG Gamma-Ray Calibration - Gamma-Ray Coefficients                             |      |                      |         |           |        |            |  |
| Master (File):                                                                 |      | 21:37:29 07-Mar-2019 |         |           |        |            |  |
| Measurement                                                                    | Unit | Phase                | Nominal | Low Limit | Actual | High Limit |  |

| Measurement                                               | Unit  | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
|-----------------------------------------------------------|-------|--------|---------|-----------|---------|------------|--|
| Gamma-Ray Gain                                            |       | Master | 1.000   | 0.800     | 1.015   | 1.200      |  |
| Gamma-Ray Jig Minus Background                            | gAPI  | Master | 143.4   | 114.7     | 141.2   | 172.1      |  |
| TMG Gamma-Ray Calibration - Gamma-Ray Accumulations       |       |        |         |           |         |            |  |
| Master (File): 21:37:29 07-Mar-2019                       |       |        |         |           |         |            |  |
| Measurement                                               | Unit  | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
| Gamma-Ray Background                                      | gAPI  | Master | 30.00   | 0         | 30.69   | 120.00     |  |
| Gamma-Ray Jig                                             | gAPI  | Master |         |           | 171.9   |            |  |
| TMG Inclinometry Calibration - Inclinometry Coefficients  |       |        |         |           |         |            |  |
| Master (File): 21:42:16 07-Mar-2019                       |       |        |         |           |         |            |  |
| Measurement                                               | Unit  | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
| Relative Bearing Offset                                   | deg   | Master | 0       | -360.000  | -90.926 | 360.000    |  |
| Accelerometer X-Axis Gain                                 |       | Master | 1.000   |           | 1.010   |            |  |
| Accelerometer X-Axis Offset                               | ft/s2 | Master | 0       |           | 0.00    |            |  |
| Accelerometer Y-Axis Gain                                 |       | Master | 1.000   |           | 1.010   |            |  |
| Accelerometer Y-Axis Offset                               | ft/s2 | Master | 0       |           | 0.32    |            |  |
| Accelerometer Z-Axis Gain                                 |       | Master | 1.000   |           | 1.015   |            |  |
| Accelerometer Z-Axis Offset                               | ft/s2 | Master | 0       |           | 0.17    |            |  |
| TMG Inclinometry Calibration - Inclinometry Accumulations |       |        |         |           |         |            |  |
| Master (File): 21:42:16 07-Mar-2019                       |       |        |         |           |         |            |  |
| Measurement                                               | Unit  | Phase  | Nominal | Low Limit | Actual  | High Limit |  |
| Minimum AX                                                | ft/s2 | Master | -32.19  | -35.47    | -31.85  | -28.90     |  |
| Maximum AX                                                | ft/s2 | Master | 32.19   | 28.90     | 31.85   | 35.47      |  |
| Minimum AY                                                | ft/s2 | Master | -32.19  | -35.47    | -32.17  | -28.90     |  |
| Maximum AY                                                | ft/s2 | Master | 32.19   | 28.90     | 31.53   | 35.47      |  |
| Minimum AZ                                                | ft/s2 | Master | 0       | -3.281    | -0.166  | 3.281      |  |
| Maximum AZ                                                | ft/s2 | Master | 32.19   | 28.90     | 31.53   | 35.47      |  |

|                                                                                 |                              |                     |
|---------------------------------------------------------------------------------|------------------------------|---------------------|
| Company:                                                                        | XTO Energy, Inc.             | <b>Schlumberger</b> |
| Well:                                                                           | Remuda 25 Observation Well 1 |                     |
| Field:                                                                          | Remuda Basin                 |                     |
| County:                                                                         | Eddy                         |                     |
| State:                                                                          | New Mexico                   |                     |
| ARRAY INDUCTION / SPECTRAL DENSITY<br>DUAL SPACED NEUTRON / GAMMA RAY / CALIPER |                              |                     |