

HALLIBURTON

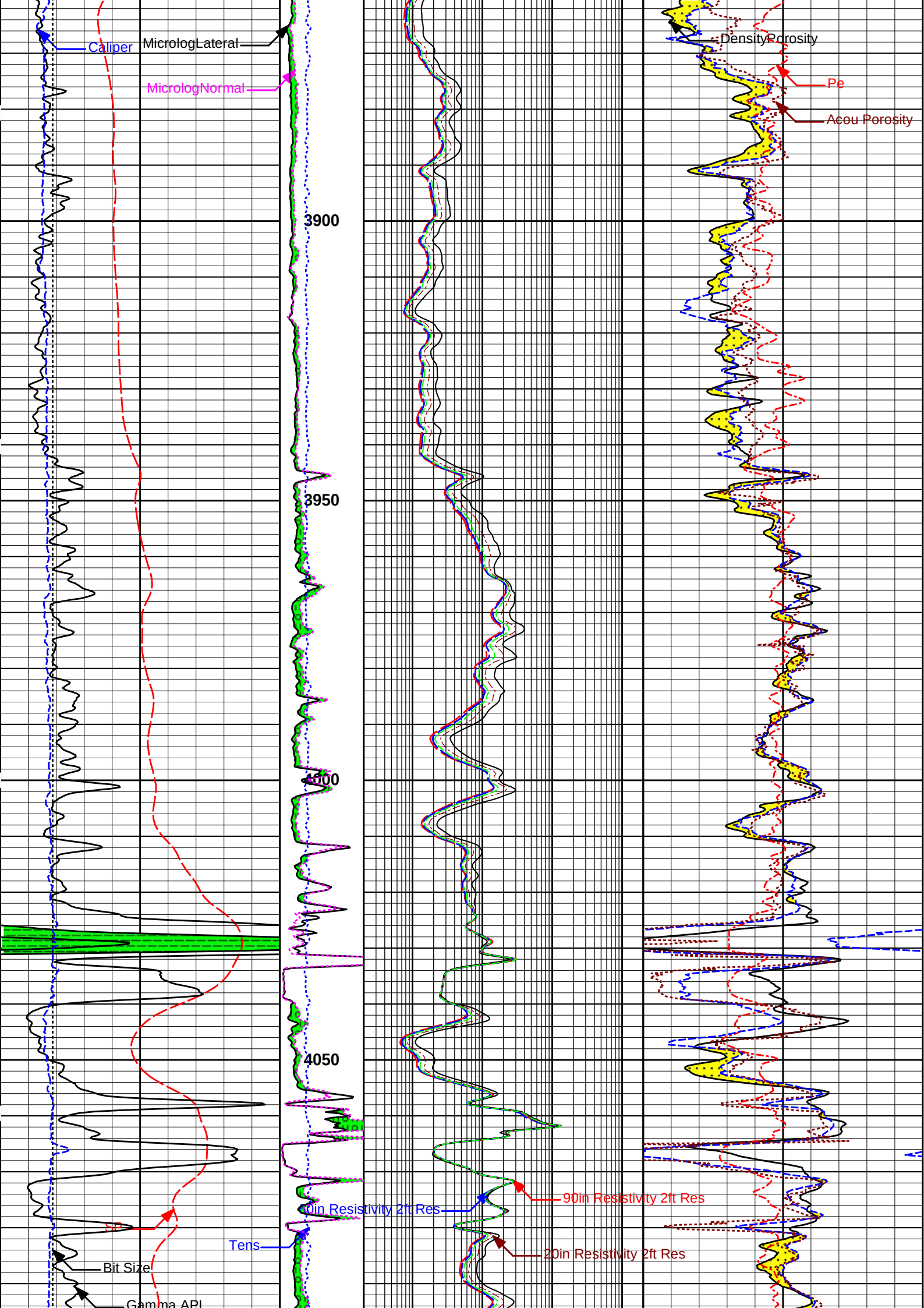
QUAD COMBO

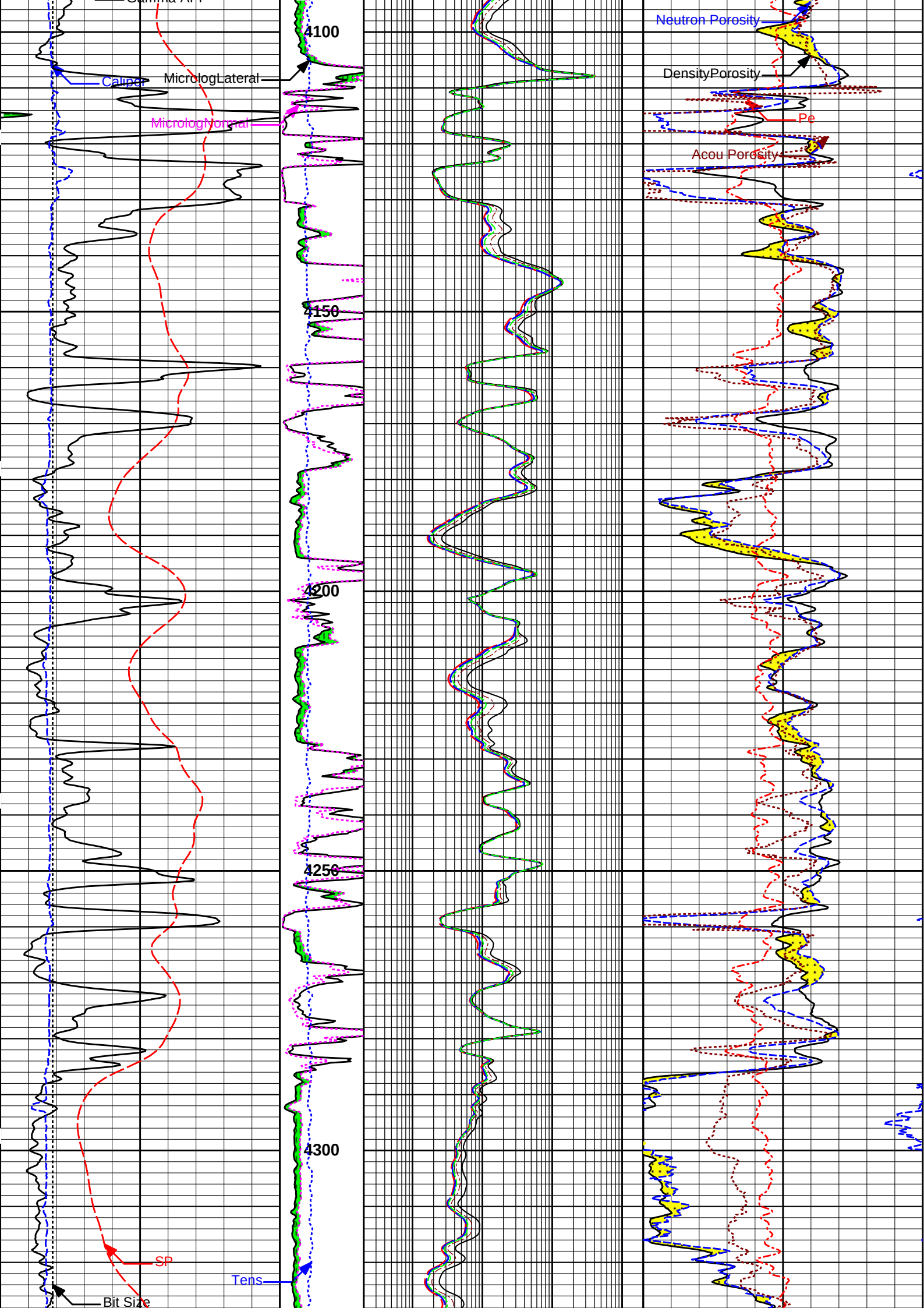
|                                                                |  |  |  |                                                                       |  |  |  |
|----------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------|--|--|--|
| COMPANY<br>WELL<br>FIELD/BLOCK<br>COUNTY<br>STATE              |  |  |  | MERIT ENERGY COMPANY<br>WENU 505<br>EUBANK NORTH<br>HASKELL<br>KANSAS |  |  |  |
| COMPANY<br>WELL<br>FIELD/BLOCK<br>COUNTY<br>STATE              |  |  |  | MERIT ENERGY COMPANY<br>WENU 505<br>EUBANK NORTH<br>HASKELL<br>KANSAS |  |  |  |
| Permanent Datum<br>Log measured from<br>Drilling measured from |  |  |  | GL<br>KB<br>KB<br>12.0 ft above perm. Datum                           |  |  |  |
| Date                                                           |  |  |  | 24-Nov-19                                                             |  |  |  |
| Run No.                                                        |  |  |  | ONE                                                                   |  |  |  |
| Depth - Driller                                                |  |  |  | 5580.0 ft                                                             |  |  |  |
| Depth - Logger                                                 |  |  |  | 5579.0 ft                                                             |  |  |  |
| Bottom - Logged Interval                                       |  |  |  | 5570.00 ft                                                            |  |  |  |
| Top - Logged Interval                                          |  |  |  | 3800.00 ft                                                            |  |  |  |
| Casing - Driller                                               |  |  |  | 8.625 in @ 1755.0 ft                                                  |  |  |  |
| Casing - Logger                                                |  |  |  | 1750.0 ft                                                             |  |  |  |
| Bit Size                                                       |  |  |  | 7.875 in                                                              |  |  |  |
| Type Fluid in Hole                                             |  |  |  | Water Based Mud                                                       |  |  |  |
| Density                                                        |  |  |  | 9.20 g/cc                                                             |  |  |  |
| PH                                                             |  |  |  | 10.50 pH                                                              |  |  |  |
| Source of Sample                                               |  |  |  | MUDPIT                                                                |  |  |  |
| Rm @ Meas. Temperature                                         |  |  |  | 1.13 ohmm @ 75.00 degF                                                |  |  |  |
| Rmf @ Meas. Temperature                                        |  |  |  | 1.02 ohmm @ 75.00 degF                                                |  |  |  |
| Rmc @ Meas. Temperature                                        |  |  |  | 1.25 ohmm @ 75.00 degF                                                |  |  |  |
| Source Rmf                                                     |  |  |  | MEAS                                                                  |  |  |  |
| Rm @ BHT                                                       |  |  |  | 0.68 ohmm @ 129.0 degF                                                |  |  |  |
| Time Since Circulation                                         |  |  |  | 4.0 hr                                                                |  |  |  |
| Time on Bottom                                                 |  |  |  | 24-Nov-19 16:00                                                       |  |  |  |
| Max. Rec. Temperature                                          |  |  |  | 129.00 degF @ 5579.0 ft                                               |  |  |  |
| Equipment                                                      |  |  |  | 12147634 EL RENO, OK                                                  |  |  |  |
| Recorded By                                                    |  |  |  | JORGE ORLANDO PEREZ                                                   |  |  |  |
| Witnessed By                                                   |  |  |  | MARTIN LANGE                                                          |  |  |  |

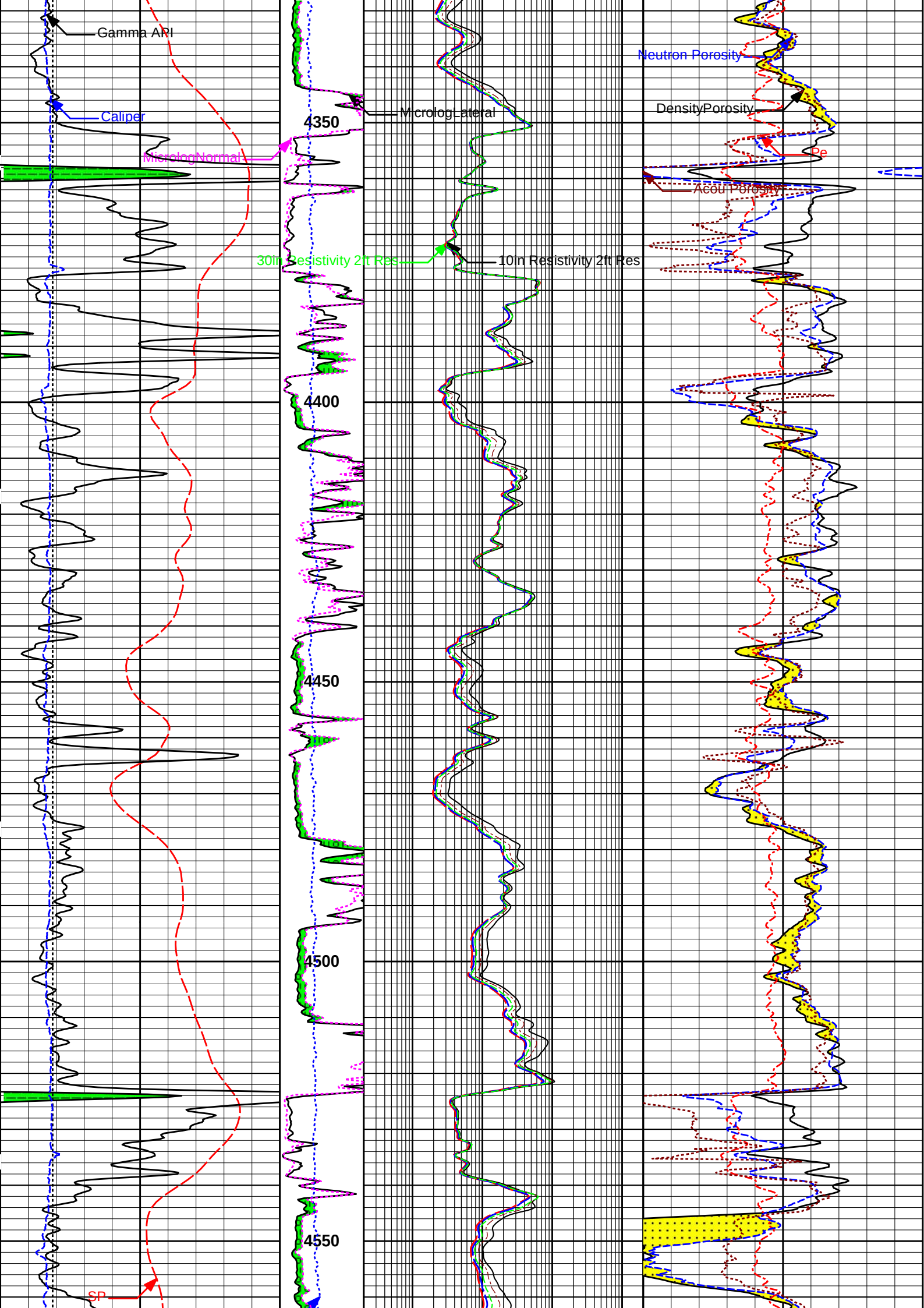
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|                                         |  |            |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
|-----------------------------------------|--|------------|-----|--------------|---|-------------------------|----|-------------|---------------------------|----------|----|-----------------------------------------|------------|-----------------|----|-----------------|------|-----------|--|-------|--|
| Service Ticket No.: 906120593           |  |            |     |              |   | API No.: 15081222070000 |    |             |                           |          |    | PGM Version: WL INSITE R6.2.7 (Build 7) |            |                 |    |                 |      |           |  |       |  |
| CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE |  |            |     |              |   |                         |    |             | RESISTIVITY SCALE CHANGES |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Date                                    |  | Sample No. |     |              |   |                         |    |             |                           | Type Log |    | Depth                                   |            | Scale Up Hole   |    | Scale Down Hole |      |           |  |       |  |
| Depth-Driller                           |  |            |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Type Fluid in Hole                      |  |            |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Density                                 |  | Viscosity  |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Ph                                      |  | Fluid Loss |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Source of Sample                        |  |            |     |              |   |                         |    |             |                           |          |    | RESISTIVITY EQUIPMENT DATA              |            |                 |    |                 |      |           |  |       |  |
| Rm @ Meas. Temp                         |  |            |     | @            |   |                         |    | @           |                           |          |    | Run No.                                 |            | Tool Type & No. |    | Pad Type        |      | Tool Pos. |  | Other |  |
| Rmf @ Meas. Temp.                       |  |            |     | @            |   |                         |    | @           |                           |          |    | ONE                                     |            | ACRT            |    | N/A             |      | 1.5" S.O. |  | N/A   |  |
| Rmc @ Meas. Temp.                       |  |            |     | @            |   |                         |    | @           |                           |          |    |                                         |            | I-12109517      |    |                 |      |           |  |       |  |
| Source Rmf                              |  | Rmc        |     |              |   |                         |    |             |                           |          |    | S-12109515                              |            |                 |    |                 |      |           |  |       |  |
| Rm @ BHT                                |  |            |     | @            |   |                         |    | @           |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Rmf @ BHT                               |  |            |     | @            |   |                         |    | @           |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| Rmc @ BHT                               |  |            |     | @            |   |                         |    | @           |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| EQUIPMENT DATA                          |  |            |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| GAMMA                                   |  |            |     | ACOUSTIC     |   |                         |    | DENSITY     |                           |          |    | NEUTRON                                 |            |                 |    |                 |      |           |  |       |  |
| Run No.                                 |  | ONE        |     | Run No.      |   | ONE                     |    | Run No.     |                           | ONE      |    | Run No.                                 |            | ONE             |    |                 |      |           |  |       |  |
| Serial No.                              |  | 11958947   |     | Serial No.   |   | 10747686                |    | Serial No.  |                           | 10951315 |    | Serial No.                              |            | 10993115        |    |                 |      |           |  |       |  |
| Model No.                               |  | GTET       |     | Model No.    |   | BSAT                    |    | Model No.   |                           | SDLT     |    | Model No.                               |            | DSNT            |    |                 |      |           |  |       |  |
| Diameter                                |  | 3.625"     |     | No. of Cent. |   | 2                       |    | Diameter    |                           | 5.5"     |    | Diameter                                |            | 3.625"          |    |                 |      |           |  |       |  |
| Detector Model No.                      |  | T-102      |     | Spacing      |   | EVEN                    |    | Log Type    |                           | GAM-GAM  |    | Log Type                                |            | NEU-NEU         |    |                 |      |           |  |       |  |
| Type                                    |  | SCINT      |     |              |   |                         |    | Source Type |                           | CS137    |    | Source Type                             |            | AM241BE         |    |                 |      |           |  |       |  |
| Length                                  |  | 8"         |     | LSA [Y/N]    |   |                         |    | Serial No.  |                           | 5471GW   |    | Serial No.                              |            | DSN-424         |    |                 |      |           |  |       |  |
| Distance to Source                      |  | N/A        |     | FWDA [Y/N ]  |   |                         |    | Strength    |                           | 1.78 Ci  |    | Strength                                |            | 15.0 Ci         |    |                 |      |           |  |       |  |
| LOGGING DATA                            |  |            |     |              |   |                         |    |             |                           |          |    |                                         |            |                 |    |                 |      |           |  |       |  |
| GENERAL                                 |  |            |     | GAMMA        |   | ACOUSTIC                |    |             | DENSITY                   |          |    |                                         | NEUTRON    |                 |    |                 |      |           |  |       |  |
| Run                                     |  | Depth      |     | Speed        |   | Scale                   |    | Scale       |                           | Matrix   |    | Scale                                   |            | Matrix          |    | Scale           |      | Matrix    |  |       |  |
| No.                                     |  | From       | To  | ft/min       | L | R                       | L  | R           | L                         |          |    | R                                       | L          |                 |    | R               |      |           |  |       |  |
| ONE                                     |  | TD         | CSG | REC          | 0 | 150                     | 30 | -10         | 47.6 uSec/ft              |          | 30 | -10                                     | 2.71 gr/cc |                 | 30 | -10             | LIME |           |  |       |  |

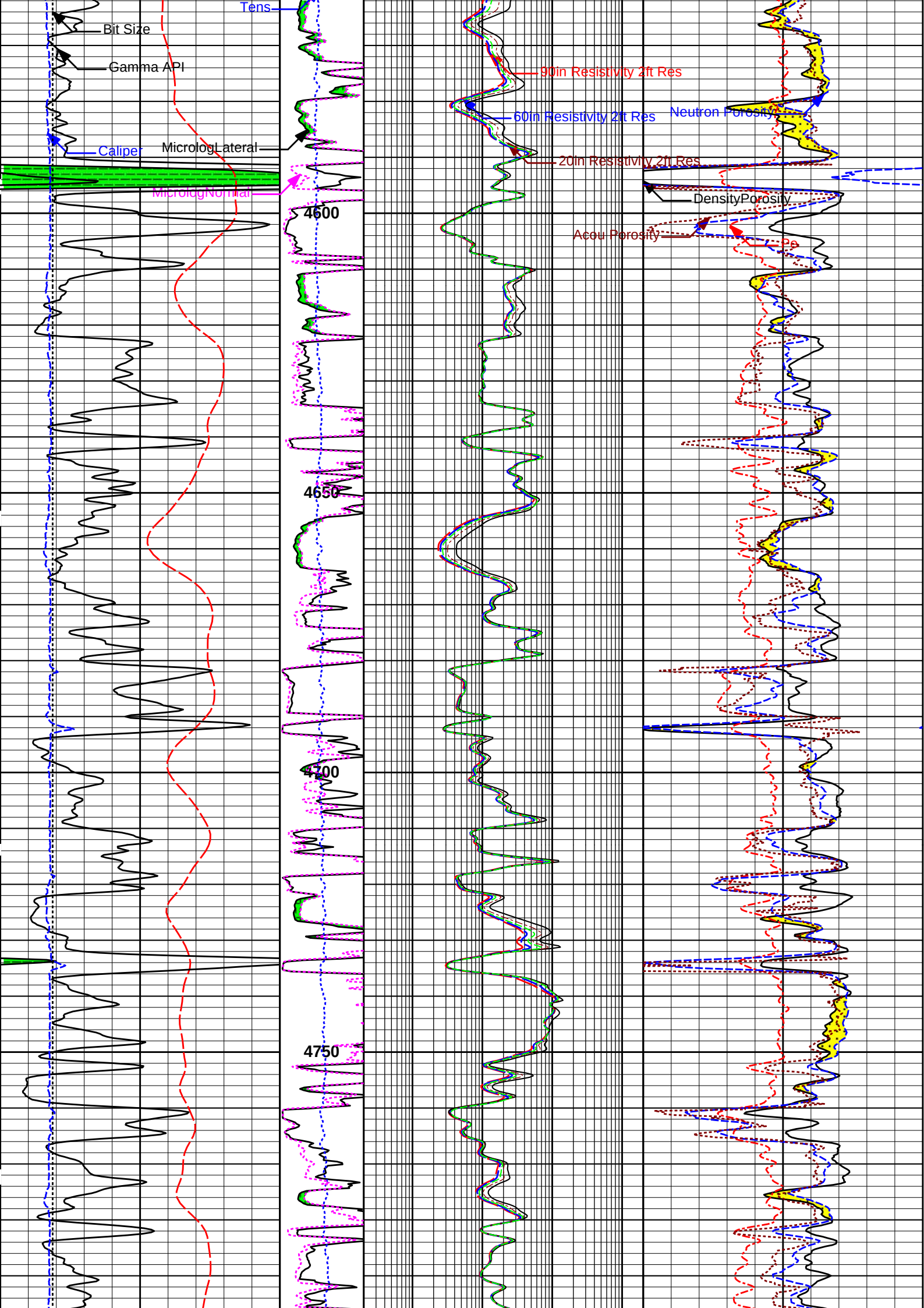


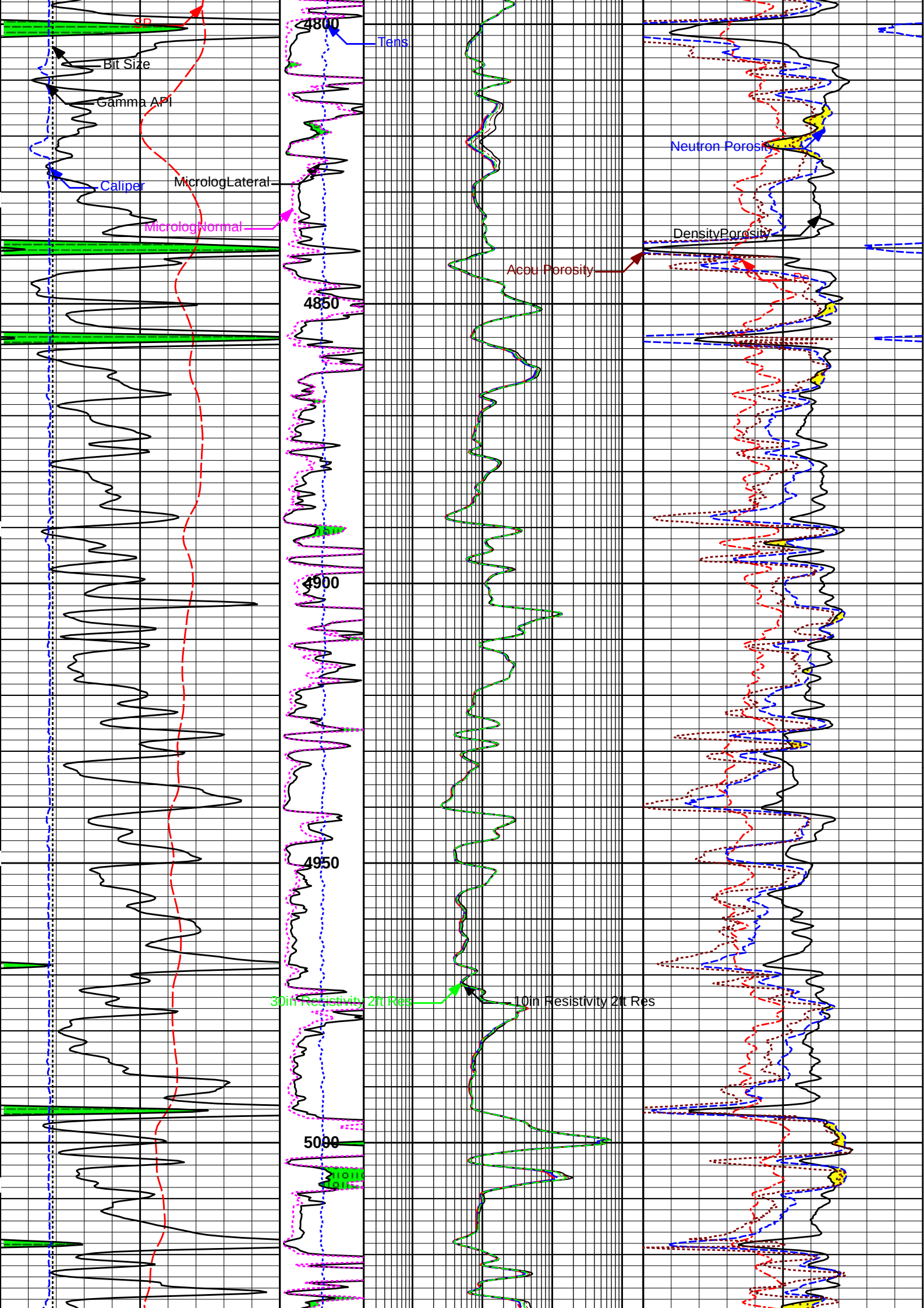


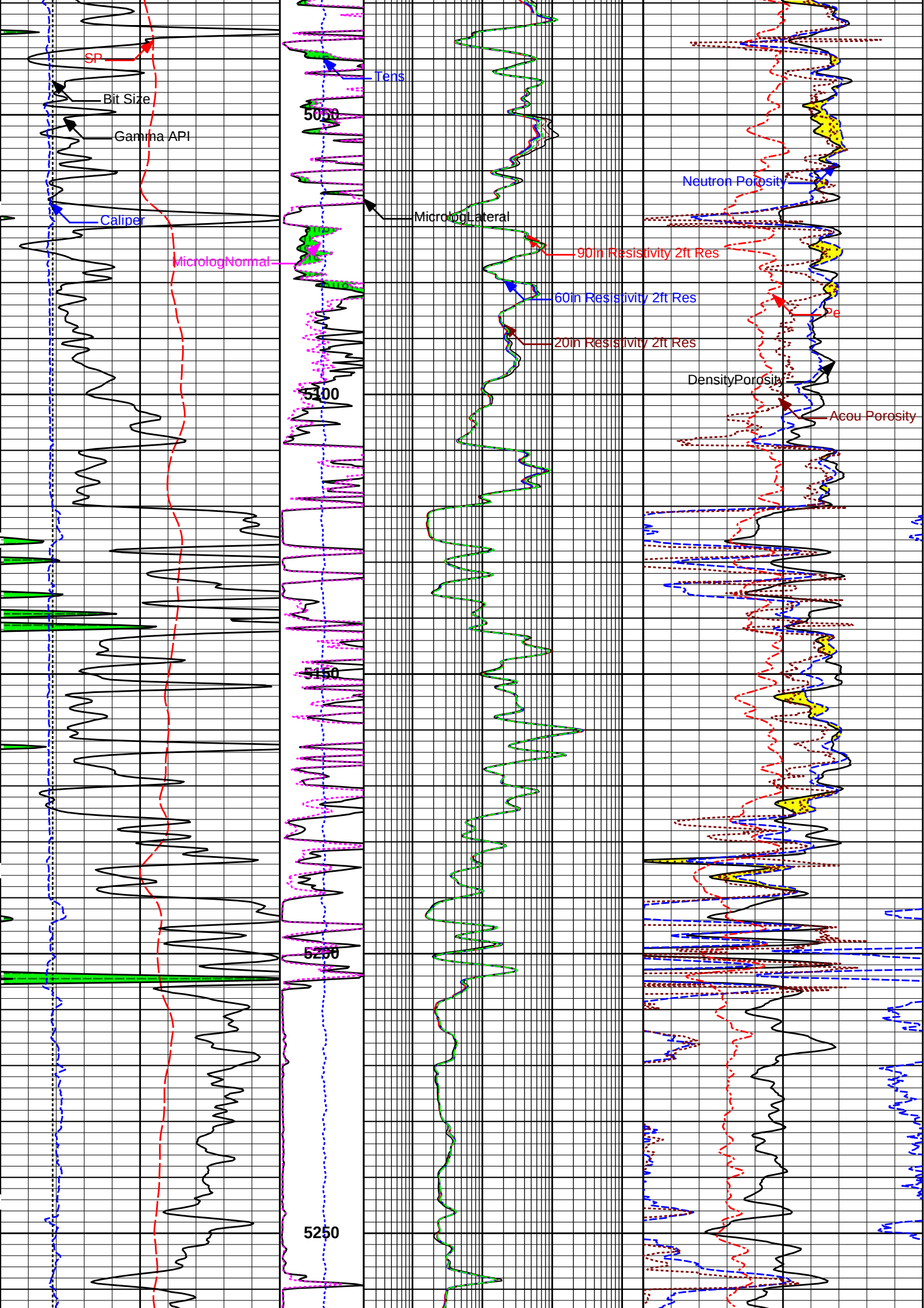




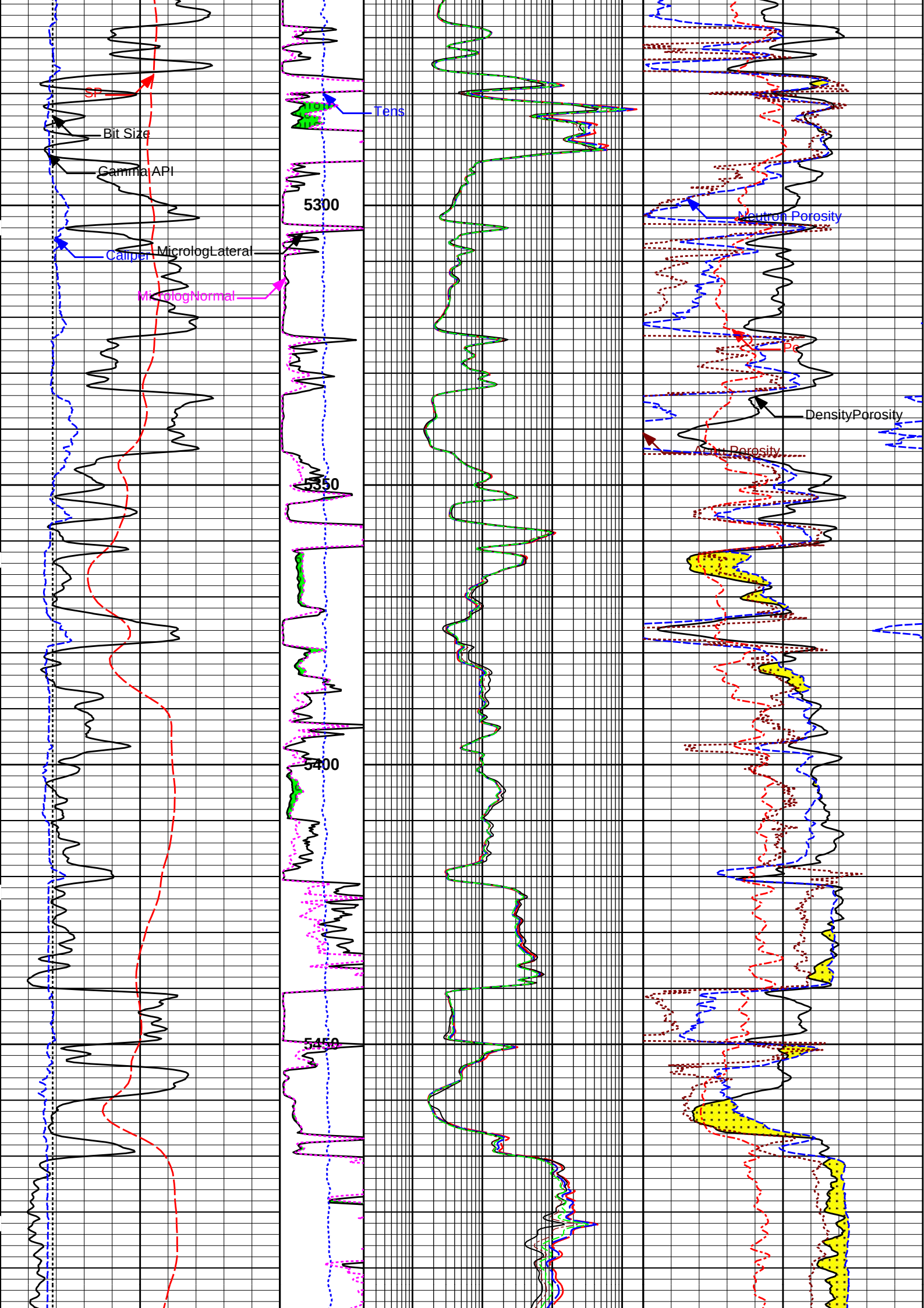


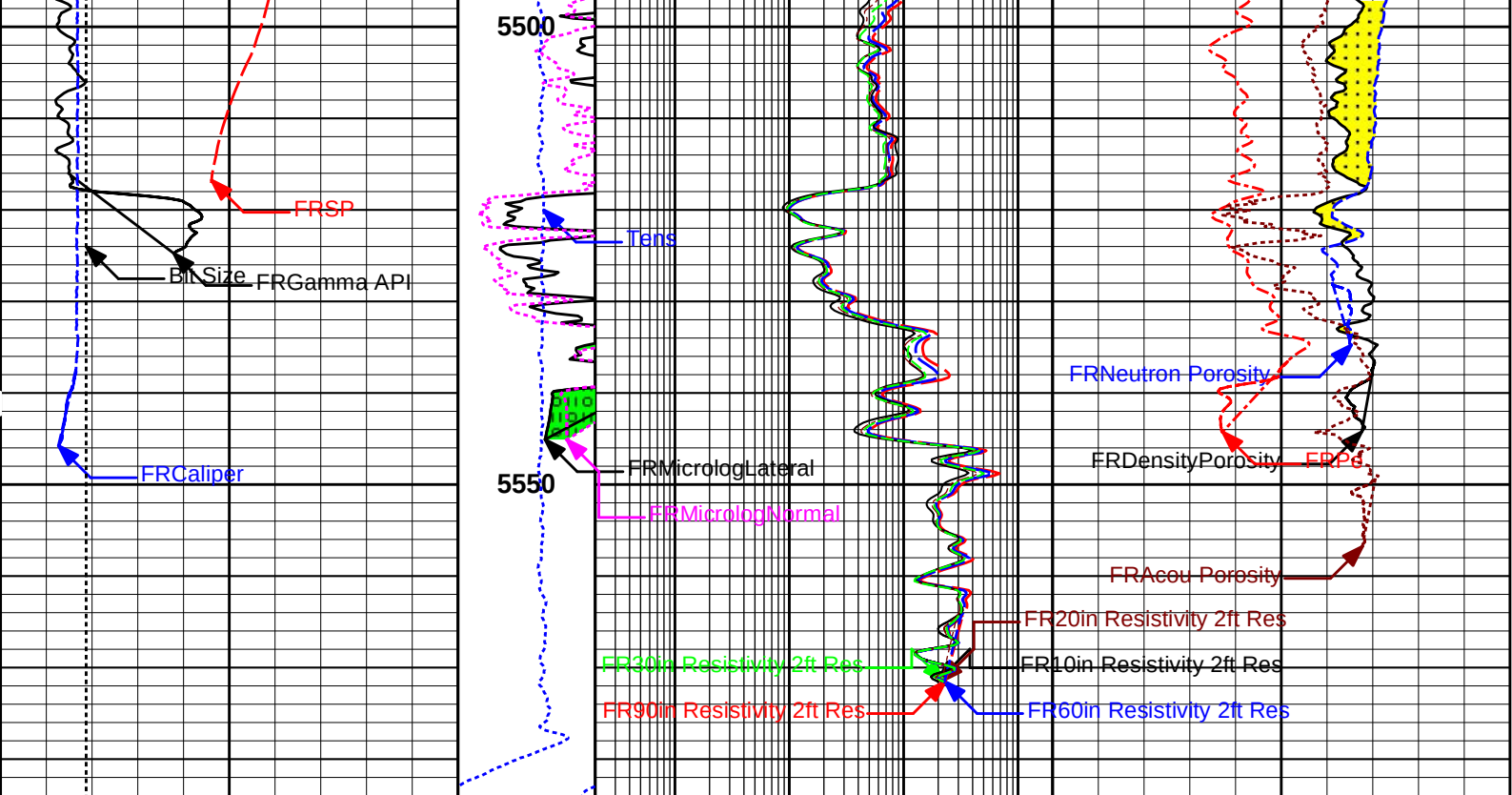












|        |               |                        |                                   |                                   |                   |                      |  |
|--------|---------------|------------------------|-----------------------------------|-----------------------------------|-------------------|----------------------|--|
| SP     |               | MD<br>1 : 240<br>ft    | 0.2 10in Resistivity 2ft Res 2000 |                                   | 0 Pe 10           |                      |  |
| -]20[+ |               |                        | ohmm                              |                                   |                   |                      |  |
| 6      | Bit Size 16   |                        | 2K Tens 4K                        | 0.2 20in Resistivity 2ft Res 2000 | 30                | DensityPorosity -10  |  |
| inches |               |                        | pounds                            | ohm-metre                         |                   | %                    |  |
| 6      | Caliper 16    |                        | MicrologLateral<br>0 40           | 0.2 30in Resistivity 2ft Res 2000 | 30                | Neutron Porosity -10 |  |
| inches |               | ohm-metre              | ohm-metre                         |                                   | %                 |                      |  |
| 0      | Gamma API 150 | MicrologNormal<br>0 40 | 0.2 60in Resistivity 2ft Res 2000 | 30                                | Acou Porosity -10 |                      |  |
| api    |               | ohm-metre              | ohm-metre                         |                                   | %                 |                      |  |
| SHALE  |               |                        | 0.2 90in Resistivity 2ft Res 2000 |                                   |                   |                      |  |
|        |               |                        | ohm-metre                         |                                   |                   |                      |  |

**HALLIBURTON**

Plot Time: 24-Nov-19 17:36:36  
Plot Range: 3795 ft to 5584.25 ft  
Data: WENU-505\Well Based\DETAILS\  
Plot File: \\QC\QC\_5\_MAIN

5 INCH MAIN LOG

|             |                      |            |        |
|-------------|----------------------|------------|--------|
| COMPANY     | MERIT ENERGY COMPANY |            |        |
| WELL        | WENU 505             |            |        |
| FIELD       | EUBANK NORTH         |            |        |
| COUNTY      | HASKELL              | STATE      | KANSAS |
| HALLIBURTON |                      | QUAD COMBO |        |