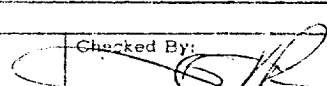


NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                         |                                    |                                                           | Test Date<br>7-26-77                                 |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------|------------------------------------|-----------------------------------------------------------|------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|-----------------------------------|-----------------|----------|------------------|--|--|--|--|-------------|--|-------------|--|------------------|-----|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|----|--|--|--|--|--|--|------|--|-----|--|--|----|----|---|------|--|--|--|---|--|-----|--|------|----|--|--|--|--|--|--|-----|--|-----|--|-------|----|--|--|--|--|--|--|----|--|-----|--|-------|----|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|
| Company<br>Aztec Oil & Gas Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    | Connection<br>Southern Union Gathering                    |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Pool<br>Blanco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |                         |                                    | Formation<br>Pictured Cliffs                              |                                                      |                                        |                                                             | Unit                              |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Completion Date<br>7-1-77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             | Total Depth<br>5629'    |                                    | Plug Back TD<br>5573'                                     |                                                      | Elevation<br>6162' GR                  |                                                             | Farm or Lease Name<br>Vanderslice |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Case Size<br>7.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Wt.<br>20#                  | d<br>6.456              | Set At<br>3238                     | Perforations:<br>From 2958' To 3018'                      |                                                      |                                        | Well No.<br>#1A                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.50#                      | d<br>4.052              | 2978-5550                          |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Tbg. Size<br>1.900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Wt.<br>2.75#                | d<br>1.610              | Set At<br>2962                     | Perforations:<br>From To                                  |                                                      |                                        | Unit Sec. Twp. Rge.<br>N 19-32N-10W                         |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>G.G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |                         |                                    |                                                           | Packer Set At<br>3154'                               |                                        | County<br>San Juan                                          |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Producing Thru<br>Tbg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             | Reservoir Temp. °F<br>@ |                                    | Mean Annual Temp. °F                                      |                                                      | Baro. Press. - P <sub>a</sub><br>12.2  |                                                             | State<br>New Mexico               |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | H                           | Gg<br>.700              | % CO <sub>2</sub>                  | % N <sub>2</sub>                                          | % H <sub>2</sub> S                                   | Prover                                 | Meter Run                                                   | Taps                              |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="7">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h<sub>w</sub></th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1038</td> <td></td> <td>889</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2"</td> <td>X</td> <td>3/4"</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>890</td> <td></td> <td>1 hr</td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>183</td> <td></td> <td>736</td> <td></td> <td>2 hrs</td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>60</td> <td></td> <td>418</td> <td></td> <td>3 hrs</td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   | FLOW DATA       |          |                  |  |  |  |  | TUBING DATA |  | CASING DATA |  | Duration of Flow | NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | SI |  |  |  |  |  |  | 1038 |  | 889 |  |  | 1. | 2" | X | 3/4" |  |  |  | 0 |  | 890 |  | 1 hr | 2. |  |  |  |  |  |  | 183 |  | 736 |  | 2 hrs | 3. |  |  |  |  |  |  | 60 |  | 418 |  | 3 hrs | 4. |  |  |  |  |  |  |  |  |  |  |  | 5. |  |  |  |  |  |  |  |  |  |  |  |
| FLOW DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                         |                                    |                                                           |                                                      |                                        | TUBING DATA                                                 |                                   | CASING DATA     |          | Duration of Flow |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Prover Line Size            | X                       | Orifice Size                       | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                 | Temp. °F                               | Press. p.s.i.g.                                             | Temp. °F                          | Press. p.s.i.g. | Temp. °F |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| SI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        | 1038                                                        |                                   | 889             |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2"                          | X                       | 3/4"                               |                                                           |                                                      |                                        | 0                                                           |                                   | 890             |          | 1 hr             |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        | 183                                                         |                                   | 736             |          | 2 hrs            |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        | 60                                                          |                                   | 418             |          | 3 hrs            |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| RATE OF FLOW CALCULATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Coefficient (24 Hour)       | $\sqrt{h_w P_m}$        | Pressure P <sub>m</sub>            | Flow Temp. Factor F <sub>t</sub>                          | Gravity Factor F <sub>g</sub>                        | Super Compress. Factor F <sub>pv</sub> | Rate of Flow Q, Mcfd                                        |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12.365                      |                         | 72.2                               | 1.0000                                                    | .9258                                                | 1.0000                                 | 827                                                         |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P <sub>r</sub>              | Temp. °R                | T <sub>r</sub>                     | Z                                                         | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                         |                                    |                                                           | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           | Specific Gravity Separator Gas _____ X X X X X X X X |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           | Specific Gravity Flowing Fluid _____ X X X X X       |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                         |                                    |                                                           | Critical Temperature _____ R _____ R                 |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| P <sub>c</sub> 1050.2 P <sub>c</sub> <sup>2</sup> 1,102,920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub>          | P <sub>w</sub> <sup>2</sup>        | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2016$           |                                        | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1690$ |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             | 430.2                   | 185,072                            | 917,848                                                   |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Absolute Open Flow 967 Mcfd @ 15.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                         |                                    |                                                           | Angle of Slope θ _____                               |                                        | Slope, n .85                                                |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Approved By Commission:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                         | Conducted By:<br>Bob Shindledecker |                                                           |                                                      | Calculated By:<br>James Smith          |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |
| Checked By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                         |                                    |                                                           |                                                      |                                        |                                                             |                                   |                 |          |                  |  |  |  |  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |  |  |    |    |   |      |  |  |  |   |  |     |  |      |    |  |  |  |  |  |  |     |  |     |  |       |    |  |  |  |  |  |  |    |  |     |  |       |    |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |