

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

Form C-122  
 Revised 9-1-65

*clsf. File*

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                          |                         | Test Date<br>8-10-87        |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------|-------------------------|-----------------------------|-------------------------------|-----------------------------------------|----------------------|------------------|----------|-----------------|----------|-------------|--|------------------|-----|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|----|--|--|--|--|--|--|------|--|-----|-------|------|----|---|---|-----|-----|------|----|------|--|--|------|------|----|---|---|-----|-----|-------|----|------|--|--|------|------|----|---|---|-----|-----|-------|----|------|--|--|-------|------|----|---|---|-----|-----|-------|----|-----|--|--|-------|------|----|--|--|--|--|--|--|--|--|--|--|--|
| Company<br>TXO PRODUCTION CO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                          | Connection<br>El Paso   |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Pool<br>UNDESIGNATED <i>Strawn</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                          | Formation<br>STRAWN     |                             | Unit<br>O.C.D.                |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Completion Date<br>7-17-87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | Total Depth<br>11,049                    |                         | Plug Back To<br>10,500      |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Casing Size<br>4 1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Wt.<br>11.6                              |                         | Set At<br>11049             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Perforations:<br>From 9875 To 9934                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Farm or Lease Name<br>Exxon St. Com. "B" |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Thg. Size<br>2 3/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | Wt.<br>4.7                               |                         | Set At<br>9740              |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Perforations:<br>From Openended To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Well No.<br>1                            |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                          |                         | Packer Set At<br>9740       |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Producing Thru Tubing<br>9740                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | Reservoir Temp. °F<br>151° 9926          |                         | Mean Annual Temp. °F<br>60° |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Baro. Press. - P <sub>0</sub><br>13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | State<br>New Mexico                      |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| Prover<br>4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | Meter Run<br>4"                          |                         | Taps<br>Flange              |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="center" colspan="4">FLOW DATA</th> <th align="center" colspan="2">TUBING DATA</th> <th align="center" colspan="2">CASING DATA</th> <th align="center" 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>1920</td> <td></td> <td>PKR</td> <td>CHOKE</td> <td>48Hr</td> </tr> <tr> <td>1.</td> <td>4</td> <td>X</td> <td>750</td> <td>477</td> <td>4.00</td> <td>90</td> <td>1683</td> <td></td> <td></td> <td>6/64</td> <td>1Hr.</td> </tr> <tr> <td>2.</td> <td>4</td> <td>X</td> <td>750</td> <td>484</td> <td>14.44</td> <td>90</td> <td>1295</td> <td></td> <td></td> <td>8/64</td> <td>1 Hr</td> </tr> <tr> <td>3.</td> <td>4</td> <td>X</td> <td>750</td> <td>477</td> <td>32.49</td> <td>82</td> <td>1021</td> <td></td> <td></td> <td>11/64</td> <td>1 Hr</td> </tr> <tr> <td>4.</td> <td>4</td> <td>X</td> <td>750</td> <td>477</td> <td>39.69</td> <td>80</td> <td>622</td> <td></td> <td></td> <td>14/64</td> <td>1 Hr</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 |  |  |  |  |  |  | 1920 |  | PKR | CHOKE | 48Hr | 1. | 4 | X | 750 | 477 | 4.00 | 90 | 1683 |  |  | 6/64 | 1Hr. | 2. | 4 | X | 750 | 484 | 14.44 | 90 | 1295 |  |  | 8/64 | 1 Hr | 3. | 4 | X | 750 | 477 | 32.49 | 82 | 1021 |  |  | 11/64 | 1 Hr | 4. | 4 | X | 750 | 477 | 39.69 | 80 | 622 |  |  | 14/64 | 1 Hr | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                          |                         |                             |                               |                                         | 1920                 |                  | PKR      | CHOKE           | 48Hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                     | X                                        | 750                     | 477                         | 4.00                          | 90                                      | 1683                 |                  |          | 6/64            | 1Hr.     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                     | X                                        | 750                     | 484                         | 14.44                         | 90                                      | 1295                 |                  |          | 8/64            | 1 Hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                     | X                                        | 750                     | 477                         | 32.49                         | 82                                      | 1021                 |                  |          | 11/64           | 1 Hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4                     | X                                        | 750                     | 477                         | 39.69                         | 80                                      | 622                  |                  |          | 14/64           | 1 Hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                          |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| <b>RATE OF FLOW CALCULATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                          |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Coefficient (24 Hour) | $\sqrt{h_w P_m}$                         | Pressure P <sub>m</sub> | Flow Temp. Factor Ft.       | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.661                 | 44.28                                    | 490.2                   | .9723                       | 1.232                         | 1.039                                   | 142                  |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.661                 | 84.73                                    | 497.2                   | .9723                       | 1.232                         | 1.039                                   | 281                  |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.661                 | 126.20                                   | 490.2                   | .9795                       | 1.232                         | 1.044                                   | 423                  |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.661                 | 139.48                                   | 490.2                   | .9813                       | 1.232                         | 1.044                                   | 462                  |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                          |                         |                             |                               |                                         |                      |                  |          |                 |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |     |       |      |    |   |   |     |     |      |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |      |      |    |   |   |     |     |       |    |      |  |  |       |      |    |   |   |     |     |       |    |     |  |  |       |      |    |  |  |  |  |  |  |  |  |  |  |  |

|     |                |          |                |      |                                       |                |
|-----|----------------|----------|----------------|------|---------------------------------------|----------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio          | 10.5 Mcf/bbl.  |
| 1   | .73            | 550      | 1.47           | .927 | A.P.I. Gravity of Liquid Hydrocarbons | 58° @ 60° Deg. |
| 2   | .74            | 550      | 1.47           | .926 | Specific Gravity Separator Gas        | .659           |
| 3   | .73            | 542      | 1.45           | .918 | Specific Gravity Flowing Fluid        | XXXXXX         |
| 4   | .73            | 540      | 1.44           | .918 | Critical Pressure                     | 670 P.S.I.A.   |
| 5   |                |          |                |      | Critical Temperature                  | 375 R          |

$$F_c = 2571.1 \quad P_c^2 = 6610.6$$

| NO | P <sub>i</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  |                             | 2372.9         | 5630.7                      | 979.9                                                     |
| 2  |                             | 2070.2         | 4285.7                      | 2324.9                                                    |
| 3  |                             | 1721.3         | 2962.9                      | 3647.7                                                    |
| 4  |                             | 1020.9         | 1041.2                      | 5569.4                                                    |
| 5  |                             |                |                             |                                                           |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.843 \quad (2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.222$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .624$$

|                    |     |                |                  |      |          |      |
|--------------------|-----|----------------|------------------|------|----------|------|
| Absolute Open Flow | 624 | Mcf/d @ 15.025 | Angle of Slope @ | 52.5 | Slope, n | .764 |
|--------------------|-----|----------------|------------------|------|----------|------|

Remarks: Used Average point alignment through second rate to obtain AOF

|                         |                       |                          |                       |
|-------------------------|-----------------------|--------------------------|-----------------------|
| Approved By Commission: | Conducted By:<br>W.S. | Calculated By:<br>J.B.M. | Checked By:<br>J.B.M. |
|-------------------------|-----------------------|--------------------------|-----------------------|