

N. M. O. C. C. COPY  
NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

**RECEIVED**

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | Test Date<br>8-22-73               |                         | AUG 27 1973                |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------|-------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|-------------|-----------------|------------------|----------|-------------|--|-------------|--|------------------|-----|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|----|--|--|--|--|--|--|------|--|------|--|--|----|----|---|-----|-----|-----|-----|------|--|---|--|---------|----|----|---|-----|-----|-----|-----|------|--|---|--|---------|----|----|---|-----|-----|------|----|------|--|---|--|---------|----|----|---|-----|-----|------|----|------|--|---|--|---------|----|--|--|--|--|--|--|--|--|--|--|--|
| Company<br>Hanagan Petroleum Corporation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                                    | Connection<br>None      |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Pool<br>Wildcat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                    | Formation<br>Morrow     |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Completion Date<br>8/24/73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | Total Depth<br>11570               |                         | Plug Back TD<br>11547      |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Elevation<br>3736 KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Farm or Lease Name<br>Mary-Federal |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Csg. Size<br>5 1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Wt. 17#<br>20#                     |                         | Set At<br>4.892<br>4.778   |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Perforations:<br>From 11363 To 367                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Well No.<br>1                      |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Tbg. Size<br>2 7/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Wt. 6.5#                           |                         | Set At<br>2.441<br>11000   |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Perforations:<br>From 11480 To 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Unit<br>H                          |                         | Sec. 11                    |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Twp. 23S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | Rge. 25E                           |                         | County<br>Eddy             |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Packer Set At<br>11000'            |                         | State<br>New Mexico        |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Producing Thru<br>Tubing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | Reservoir Temp. °F<br>186 @ 10923  |                         | Mean Annual Temp. °F<br>70 |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Baro. Press. - P <sub>a</sub><br>13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | Prover                             |                         | Meter Run<br>X             |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| L<br>11423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       | H<br>11423                         |                         | G <sub>g</sub><br>0.600    |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| % CO <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | % N <sub>2</sub>                   |                         | % H <sub>2</sub> S         |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="6">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>3681</td> <td></td> <td>Pkr.</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>4"</td> <td>X</td> <td>3/4</td> <td>670</td> <td>2.5</td> <td>100</td> <td>3597</td> <td></td> <td>"</td> <td></td> <td>60 min.</td> </tr> <tr> <td>2.</td> <td>4"</td> <td>X</td> <td>3/4</td> <td>630</td> <td>6.0</td> <td>100</td> <td>3552</td> <td></td> <td>"</td> <td></td> <td>60 min.</td> </tr> <tr> <td>3.</td> <td>4"</td> <td>X</td> <td>3/4</td> <td>635</td> <td>12.2</td> <td>97</td> <td>3476</td> <td></td> <td>"</td> <td></td> <td>60 min.</td> </tr> <tr> <td>4.</td> <td>4"</td> <td>X</td> <td>3/4</td> <td>600</td> <td>25.8</td> <td>92</td> <td>3359</td> <td></td> <td>"</td> <td></td> <td>60 min.</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 |  |  |  |  |  |  | 3681 |  | Pkr. |  |  | 1. | 4" | X | 3/4 | 670 | 2.5 | 100 | 3597 |  | " |  | 60 min. | 2. | 4" | X | 3/4 | 630 | 6.0 | 100 | 3552 |  | " |  | 60 min. | 3. | 4" | X | 3/4 | 635 | 12.2 | 97 | 3476 |  | " |  | 60 min. | 4. | 4" | X | 3/4 | 600 | 25.8 | 92 | 3359 |  | " |  | 60 min. | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         | 3681                 |             | Pkr.            |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4"                    | X                                  | 3/4                     | 670                        | 2.5                                                                                                                                                                                                                                                                      | 100                                     | 3597                 |             | "               |                  | 60 min.  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4"                    | X                                  | 3/4                     | 630                        | 6.0                                                                                                                                                                                                                                                                      | 100                                     | 3552                 |             | "               |                  | 60 min.  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4"                    | X                                  | 3/4                     | 635                        | 12.2                                                                                                                                                                                                                                                                     | 97                                      | 3476                 |             | "               |                  | 60 min.  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4"                    | X                                  | 3/4                     | 600                        | 25.8                                                                                                                                                                                                                                                                     | 92                                      | 3359                 |             | "               |                  | 60 min.  |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| RATE OF FLOW CALCULATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 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                 | 41.33                              | 683.2                   | .9636                      | 1.291                                                                                                                                                                                                                                                                    | 1.042                                   | 142.6                |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.661                 | 62.12                              | 643.2                   | .9636                      | 1.291                                                                                                                                                                                                                                                                    | 1.040                                   | 213.9                |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.661                 | 88.93                              | 648.2                   | .9662                      | 1.291                                                                                                                                                                                                                                                                    | 1.043                                   | 307.9                |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.661                 | 125.78                             | 613.2                   | .9706                      | 1.291                                                                                                                                                                                                                                                                    | 1.045                                   | 438.3                |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P <sub>r</sub>        | Temp. °R                           | T <sub>r</sub>          | Z                          | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.<br>A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.<br>Specific Gravity Separator Gas 0.600 XXXXXXXXXX<br>Specific Gravity Flowing Fluid XXXXXX<br>Critical Pressure 671 P.S.I.A. P.S.I.A.<br>Critical Temperature 358 °R °R |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Used Simplified       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Supercompressibility  |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tables                |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| P <sub>f</sub> 4708.2    P <sub>s</sub> 22167<br>NO.    P <sub>r</sub> <sup>2</sup> P <sub>s</sub> <sup>2</sup> P <sub>f</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                    |                         |                            | (1) $\frac{P_c^2}{P_r^2 - P_w^2} =$ _____<br>(2) $\frac{P_c^2}{P_r^2 - P_w^2} =$ _____<br>AOF = Q $\left[ \frac{P_c^2}{P_r^2 - P_w^2} \right]^n =$ _____                                                                                                                 |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 4611.2                             | 21263                   | 904                        |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 4565.2                             | 20841                   | 1326                       |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 4476.2                             | 20036                   | 2131                       |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 4334.2                             | 18785                   | 3382                       |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Absolute Open Flow 2200 Mcfd @ 15.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                    |                         |                            | Angle of Slope 49° 47'                                                                                                                                                                                                                                                   |                                         | Slope, n 0.84549     |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: BHP measured with Amerada RPG-3 gauge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                    |                         |                            |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
| Approved By Commission:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       | Conducted By:                      |                         | Calculated By:             |                                                                                                                                                                                                                                                                          | Checked By:                             |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Tefteller, Inc.                    |                         | F. Tefteller               |                                                                                                                                                                                                                                                                          |                                         |                      |             |                 |                  |          |             |  |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |                 |          |    |  |  |  |  |  |  |      |  |      |  |  |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |     |     |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |    |   |     |     |      |    |      |  |   |  |         |    |  |  |  |  |  |  |  |  |  |  |  |

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