

# RECEIVED

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

JUN 7 1976

Form C-122  
Revised 9-1-65

copy to SG

| Type Test <b>O.C.C.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Special |                             | Test Date <b>5-24-76</b>                  |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------|-----------------------------|-------------------------------------------|-----------------------------------------------------------|------------------------------------------|--------------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|---------------------------------------|--------------------------------|--------------------------------|-----------------------|----------------------|-------------------------|----------------------------------|-------------------------------|------------------------------------------|-----------------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|-----|-----|--------|--------|--------|--------|-------|-------|-----|-----|-------|--------|-------|-------|-------|-------|------|------|-------|--------|-------|-------|-------|-------|------|---|---|-------|-----|----|-----|------|------|------|---|---------|----|---|---|-------|-----|----|-----|------|-----|---|---|-------|----|---|---|-------|-----|----|-----|------|-----|---|---|-------|----|--|--|--|------|--|--|------|--|--|--|--------|
| Company <b>LLANO, INC.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | Connection                                                                  |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Pool <b>Atoka Penn (Gas)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | Formation <b>Morrow</b>                                                     |                             | Unit                                      |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Completion Date <b>5-18-76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Total Depth <b>9355</b>                                                     |                             | Plug Back TD <b>9280</b>                  |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                             |                             | Elevation <b>3306.6KB</b>                 |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Csg. Size <b>4 1/2"</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Set At <b>9355</b>                                                          |                             | Perforations: <b>9031 9045</b>            |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Wt. <b>11.6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | Set At <b>9355</b>                                                          |                             | From <b>9073</b> To <b>9086</b>           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Teg. Size <b>2 3/8"</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Set At <b>8833</b>                                                          |                             | Perforations: <b>9090 9093</b>            |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Wt. <b>4.7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       | Set At <b>8833</b>                                                          |                             | From <b>Open Ended</b>                    |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                                                                             |                             | Packer Set At <b>8833</b>                 |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Producing Thru <b>Tbq</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                             |                             | State <b>New Mexico</b>                   |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Reservoir Temp. °F <b>158 @ 9050</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | Mean Annual Temp. °F <b>60</b>                                              |                             | Baro. Press. - P <sub>a</sub> <b>13.2</b> |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| L <b>9031</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | H <b>9031</b>                                                               |                             | Prover <b>X</b>                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| G <sub>g</sub> <b>.6188</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | % CO <sub>2</sub> <b>.172</b>                                               |                             | % N <sub>2</sub> <b>1.398</b>             |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| % H <sub>2</sub> S <b>-0-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Meter Run <b>3"</b>                                                         |                             | Days <b>Flg</b>                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <table border="1"> <thead> <tr> <th colspan="7">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h<sub>w</sub></th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> </thead> <tbody> <tr> <td>SI</td> <td>3</td> <td>X</td> <td>1.000</td> <td>SITP</td> <td></td> <td></td> <td>2604</td> <td></td> <td>Pkr</td> <td></td> <td>48 hrs</td> </tr> <tr> <td>1.</td> <td>3</td> <td>X</td> <td>1.000</td> <td>625</td> <td>15.5</td> <td>85°</td> <td>2270</td> <td>85°</td> <td>"</td> <td>-</td> <td>1 hr.</td> </tr> <tr> <td>2.</td> <td>3</td> <td>X</td> <td>1.000</td> <td>630</td> <td>34</td> <td>90°</td> <td>2019</td> <td>90°</td> <td>"</td> <td>-</td> <td>1.5 hr.</td> </tr> <tr> <td>3.</td> <td>3</td> <td>X</td> <td>1.000</td> <td>635</td> <td>48</td> <td>88°</td> <td>1855</td> <td>88°</td> <td>"</td> <td>-</td> <td>1 hr.</td> </tr> <tr> <td>4.</td> <td>3</td> <td>X</td> <td>1.000</td> <td>635</td> <td>73</td> <td>88°</td> <td>1637</td> <td>88°</td> <td>"</td> <td>-</td> <td>1 hr.</td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td>SITP</td> <td></td> <td></td> <td>2360</td> <td></td> <td></td> <td></td> <td>.5 hr.</td> </tr> </tbody> </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  | 3   | X      | 1.000  | SITP   |        |       | 2604  |     | Pkr |       | 48 hrs | 1.    | 3     | X     | 1.000 | 625  | 15.5 | 85°   | 2270   | 85°   | "     | -     | 1 hr. | 2.   | 3 | X | 1.000 | 630 | 34 | 90° | 2019 | 90°  | "    | - | 1.5 hr. | 3. | 3 | X | 1.000 | 635 | 48 | 88° | 1855 | 88° | " | - | 1 hr. | 4. | 3 | X | 1.000 | 635 | 73 | 88° | 1637 | 88° | " | - | 1 hr. | 5. |  |  |  | SITP |  |  | 2360 |  |  |  | .5 hr. |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                     | X                                                                           | 1.000                       | SITP                                      |                                                           |                                          | 2604                           |                                | Pkr                         |                             | 48 hrs                                                    |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                     | X                                                                           | 1.000                       | 625                                       | 15.5                                                      | 85°                                      | 2270                           | 85°                            | "                           | -                           | 1 hr.                                                     |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                     | X                                                                           | 1.000                       | 630                                       | 34                                                        | 90°                                      | 2019                           | 90°                            | "                           | -                           | 1.5 hr.                                                   |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                     | X                                                                           | 1.000                       | 635                                       | 48                                                        | 88°                                      | 1855                           | 88°                            | "                           | -                           | 1 hr.                                                     |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                     | X                                                                           | 1.000                       | 635                                       | 73                                                        | 88°                                      | 1637                           | 88°                            | "                           | -                           | 1 hr.                                                     |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                             |                             | SITP                                      |                                                           |                                          | 2360                           |                                |                             |                             | .5 hr.                                                    |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <table border="1"> <thead> <tr> <th colspan="8">RATE OF FLOW CALCULATIONS</th> </tr> <tr> <th>NO.</th> <th>Coefficient (24 Hour)</th> <th><math>\sqrt{I_w P_m}</math></th> <th>Pressure P<sub>m</sub></th> <th>Flow Temp. Factor F<sub>t</sub></th> <th>Gravity Factor F<sub>g</sub></th> <th>Super. Compress. Factor, F<sub>pv</sub></th> <th>Rate of Flow Q, Mcf/d</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4.789</td> <td>99.46</td> <td>638.2</td> <td>.9768</td> <td>1.271</td> <td>1.051</td> <td>622</td> </tr> <tr> <td>2</td> <td>4.789</td> <td>147.88</td> <td>643.2</td> <td>.9723</td> <td>1.271</td> <td>1.050</td> <td>919</td> </tr> <tr> <td>3</td> <td>4.789</td> <td>176.39</td> <td>648.2</td> <td>.9741</td> <td>1.271</td> <td>1.052</td> <td>1100</td> </tr> <tr> <td>4</td> <td>4.789</td> <td>217.53</td> <td>648.2</td> <td>.9741</td> <td>1.271</td> <td>1.052</td> <td>1357</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                                                                             |                             |                                           |                                                           | RATE OF FLOW CALCULATIONS                |                                |                                |                             |                             |                                                           |                                       |                                | NO.                            | Coefficient (24 Hour) | $\sqrt{I_w P_m}$     | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super. Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcf/d | 1               | 4.789                | 99.46    | 638.2           | .9768    | 1.271           | 1.051    | 622 | 2   | 4.789  | 147.88 | 643.2  | .9723  | 1.271 | 1.050 | 919 | 3   | 4.789 | 176.39 | 648.2 | .9741 | 1.271 | 1.052 | 1100 | 4    | 4.789 | 217.53 | 648.2 | .9741 | 1.271 | 1.052 | 1357 | 5 |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| RATE OF FLOW CALCULATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Coefficient (24 Hour) | $\sqrt{I_w P_m}$                                                            | Pressure P <sub>m</sub>     | Flow Temp. Factor F <sub>t</sub>          | Gravity Factor F <sub>g</sub>                             | Super. Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcf/d          |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.789                 | 99.46                                                                       | 638.2                       | .9768                                     | 1.271                                                     | 1.051                                    | 622                            |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.789                 | 147.88                                                                      | 643.2                       | .9723                                     | 1.271                                                     | 1.050                                    | 919                            |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.789                 | 176.39                                                                      | 648.2                       | .9741                                     | 1.271                                                     | 1.052                                    | 1100                           |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.789                 | 217.53                                                                      | 648.2                       | .9741                                     | 1.271                                                     | 1.052                                    | 1357                           |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <table border="1"> <thead> <tr> <th>NO.</th> <th>P<sub>r</sub></th> <th>Temp. °R</th> <th>T<sub>r</sub></th> <th>Z</th> <th>Gas Liquid Hydrocarbon Ratio</th> <th>A.P.I. Gravity of Liquid Hydrocarbons</th> <th>Specific Gravity Separator Gas</th> <th>Specific Gravity Flowing Fluid</th> <th>Critical Pressure</th> <th>Critical Temperature</th> <th>Mcf/bbl.</th> <th>Deg.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>.95</td> <td>545</td> <td>1.50</td> <td>.906</td> <td>97</td> <td>58.5 @ 96° F</td> <td>.6188</td> <td>X X X X X X X X</td> <td>670</td> <td>364</td> <td>669</td> <td>372</td> </tr> <tr> <td>2</td> <td>.96</td> <td>550</td> <td>1.51</td> <td>.907</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>.97</td> <td>548</td> <td>1.50</td> <td>.904</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>.97</td> <td>548</td> <td>1.50</td> <td>.904</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                   |                       |                                                                             |                             |                                           |                                                           | NO.                                      | P <sub>r</sub>                 | Temp. °R                       | T <sub>r</sub>              | Z                           | Gas Liquid Hydrocarbon Ratio                              | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure     | Critical Temperature | Mcf/bbl.                | Deg.                             | 1                             | .95                                      | 545                   | 1.50            | .906                 | 97       | 58.5 @ 96° F    | .6188    | X X X X X X X X | 670      | 364 | 669 | 372    | 2      | .96    | 550    | 1.51  | .907  |     |     |       |        |       |       |       |       | 3    | .97  | 548   | 1.50   | .904  |       |       |       |      |   |   |       |     | 4  | .97 | 548  | 1.50 | .904 |   |         |    |   |   |       |     |    | 5   |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P <sub>r</sub>        | Temp. °R                                                                    | T <sub>r</sub>              | Z                                         | Gas Liquid Hydrocarbon Ratio                              | A.P.I. Gravity of Liquid Hydrocarbons    | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure           | Critical Temperature        | Mcf/bbl.                                                  | Deg.                                  |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .95                   | 545                                                                         | 1.50                        | .906                                      | 97                                                        | 58.5 @ 96° F                             | .6188                          | X X X X X X X X                | 670                         | 364                         | 669                                                       | 372                                   |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .96                   | 550                                                                         | 1.51                        | .907                                      |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .97                   | 548                                                                         | 1.50                        | .904                                      |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .97                   | 548                                                                         | 1.50                        | .904                                      |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <table border="1"> <thead> <tr> <th>NO.</th> <th>P<sub>r</sub></th> <th>P<sub>w</sub></th> <th>P<sub>r</sub><sup>2</sup></th> <th>P<sub>w</sub><sup>2</sup></th> <th>P<sub>r</sub><sup>2</sup> - P<sub>w</sub><sup>2</sup></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5213.0</td> <td>2286.0</td> <td>5225.8</td> <td>1624.2</td> <td></td> </tr> <tr> <td>2</td> <td>4129.8</td> <td>2039.1</td> <td>4157.9</td> <td>2692.1</td> <td></td> </tr> <tr> <td>3</td> <td>3490.2</td> <td>1879.1</td> <td>3531.0</td> <td>3319.0</td> <td></td> </tr> <tr> <td>4</td> <td>2723.2</td> <td>1669.6</td> <td>2787.6</td> <td>4062.4</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                                                                             |                             |                                           |                                                           | NO.                                      | P <sub>r</sub>                 | P <sub>w</sub>                 | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | 1                                     | 5213.0                         | 2286.0                         | 5225.8                | 1624.2               |                         | 2                                | 4129.8                        | 2039.1                                   | 4157.9                | 2692.1          |                      | 3        | 3490.2          | 1879.1   | 3531.0          | 3319.0   |     | 4   | 2723.2 | 1669.6 | 2787.6 | 4062.4 |       | 5     |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P <sub>r</sub>        | P <sub>w</sub>                                                              | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup>               | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5213.0                | 2286.0                                                                      | 5225.8                      | 1624.2                                    |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4129.8                | 2039.1                                                                      | 4157.9                      | 2692.1                                    |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3490.2                | 1879.1                                                                      | 3531.0                      | 3319.0                                    |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2723.2                | 1669.6                                                                      | 2787.6                      | 4062.4                                    |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <p>(1) <math>\frac{P_c^2}{P_c^2 - P_w^2} = 1.686</math> (2) <math>\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.620</math></p> <p>ACF = Q <math>\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2200</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| <p>Absolute Open Flow <b>2,200</b> Mcfd @ 15.025 Angle of Slope @ <b>47.27°</b> Slope, n <b>.924</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Remarks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |
| Approved By Commission: Conducted By: Calculated By: Checked By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                                                                             |                             |                                           |                                                           |                                          |                                |                                |                             |                             |                                                           |                                       |                                |                                |                       |                      |                         |                                  |                               |                                          |                       |                 |                      |          |                 |          |                 |          |     |     |        |        |        |        |       |       |     |     |       |        |       |       |       |       |      |      |       |        |       |       |       |       |      |   |   |       |     |    |     |      |      |      |   |         |    |   |   |       |     |    |     |      |     |   |   |       |    |   |   |       |     |    |     |      |     |   |   |       |    |  |  |  |      |  |  |      |  |  |  |        |