

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

Form C-122  
 Revised 9-1-65

|                                                                                                                                      |             |                         |                   |                                           |                      |                      |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------|-------------------------------------------|----------------------|----------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |             |                         |                   |                                           | Test Date<br>8-14-81 |                      |
| Company<br>Amoco Production Company                                                                                                  |             |                         |                   | Connection<br>El Paso Natural Gas Company |                      |                      |
| Pool<br>Basin                                                                                                                        |             |                         |                   | Formation<br>Dakota                       |                      | Unit                 |
| Completion Date<br>7-30-81                                                                                                           |             | Total Depth<br>6342     |                   | Plug Back TD<br>6305                      |                      | Elevation<br>5985 GL |
| Farm or Lease Name<br>McGrady Gas Com "C"                                                                                            |             |                         |                   |                                           |                      | Well No.<br>1        |
| Crp. Size<br>4.500                                                                                                                   | Wt.<br>10.5 | d<br>4052               | Set At<br>6342    | Perforations:<br>From 6161 To 6209        |                      | Unit<br>F            |
| Trp. Size<br>2.375                                                                                                                   | Wt.<br>4.7  | d<br>1.995              | Set At<br>6238    | Perforations:<br>From open To ended       |                      | Sec.<br>14           |
| Type Well - Single - Broadhead - G.G. or G.O. Multiple<br>Single                                                                     |             |                         |                   | Pecker Set At<br>None                     |                      | Twp.<br>27N          |
| Producing Thru<br>Tubing                                                                                                             |             | Reservoir Temp. °F<br>0 |                   | Mean Annual Temp. °F<br>0                 |                      | Rge.<br>12W          |
| County<br>San Juan                                                                                                                   |             | State<br>New Mexico     |                   |                                           |                      |                      |
| L                                                                                                                                    | H           | Gg                      | % CO <sub>2</sub> | % N <sub>2</sub>                          | % H <sub>2</sub> S   | Prover               |
| Meter Run                                                                                                                            |             | Taps                    |                   |                                           |                      |                      |

| 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        | 7 Days           |      |              |                 |                      |          | 1162            |          | 1164            |          |                  |
| 1.        | 2.375            | .750 |              |                 |                      |          | 168             |          | 736             |          | 3 hrs            |
| 2.        |                  |      |              |                 |                      |          |                 |          |                 |          |                  |
| 3.        |                  |      |              |                 |                      |          |                 |          |                 |          |                  |
| 4.        |                  |      |              |                 |                      |          |                 |          |                 |          |                  |
| 5.        |                  |      |              |                 |                      |          |                 |          |                 |          |                  |

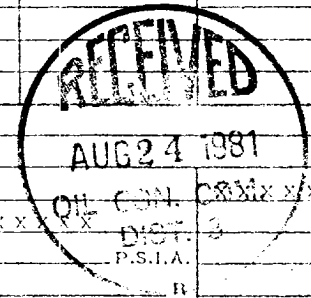
  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                                  |                               |                                         |                        |
|---------------------------|-----------------------|------------------|-------------------------|----------------------------------|-------------------------------|-----------------------------------------|------------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>w</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mscf/d |
| 1                         | 12.365                |                  | 180                     | 1.000                            | .9258                         | 1.020                                   | 2102                   |
| 2.                        |                       |                  |                         |                                  |                               |                                         |                        |
| 3.                        |                       |                  |                         |                                  |                               |                                         |                        |
| 4.                        |                       |                  |                         |                                  |                               |                                         |                        |
| 5.                        |                       |                  |                         |                                  |                               |                                         |                        |

| NO. | P <sub>1</sub> | Temp. °R | T <sub>1</sub> | Z | Gas Liquid Hydrocarbon Ratio          | Mcf/bsl.       |
|-----|----------------|----------|----------------|---|---------------------------------------|----------------|
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons | _____ Deg.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas        | _____          |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid        | _____          |
| 4.  |                |          |                |   | Critical Pressure                     | _____ P.S.I.A. |
| 5.  |                |          |                |   | Critical Temperature                  | _____ R        |



| NO. | P <sub>c</sub> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   |                | 748            | 559504                      | 823472                                                    | 1.6794                              | 1.4753                                               |
| 2   |                |                |                             |                                                           |                                     |                                                      |
| 3   |                |                |                             |                                                           |                                     |                                                      |
| 4   |                |                |                             |                                                           |                                     |                                                      |
| 5   |                |                |                             |                                                           |                                     |                                                      |

|                                               |  |                               |  |                             |  |
|-----------------------------------------------|--|-------------------------------|--|-----------------------------|--|
| Absolute Open Flow <u>3108</u> Mcf/d @ 15.025 |  | Angle of Slope $\theta$ _____ |  | Slope, n <u>.75</u>         |  |
| Remarks _____                                 |  |                               |  |                             |  |
| Approved by Commission                        |  | Conducted by<br>JJB           |  | Calculated by<br>JJ Barnett |  |
|                                               |  |                               |  | Checked by                  |  |