

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |                                     |                                  |                             |                                                           |                                                             |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                                     |                                  |                             | Test Date<br>11/8/82                                      |                                                             |
| Company<br><u>Union Texas Petroleum Corp.</u>                                                                             |                                     |                                  |                             | Connection<br><u>Gas Company of New Mexico</u>            |                                                             |
| Pool<br><u>Blanco</u>                                                                                                     |                                     |                                  |                             | Formation<br><u>Mesaverde</u>                             |                                                             |
| Completion Date<br>9/24/82                                                                                                |                                     | Total Depth<br>8450              |                             | Plug Back TD<br>8360                                      |                                                             |
|                                                                                                                           |                                     |                                  |                             | Elevation<br>7275                                         |                                                             |
| Farm or Lease Name<br><u>Jicarilla "G"</u>                                                                                |                                     |                                  |                             | Well No.<br>5-M                                           |                                                             |
| Csg. Size<br>9.825<br>7.000                                                                                               | Wt.<br>40.00<br>26.00               | d<br>8.835<br>6.276              | Set At<br>5499<br>5302-8444 | Perforations:<br>From 5578 To 6188                        |                                                             |
| Thq. Size<br>2.375                                                                                                        | Wt.<br>4.70                         | d<br>1.995                       | Set At<br>6145              | Perforations:<br>From 6113 To 6119                        |                                                             |
| Type Well - Single - Brdenhead - G.G. or G.O. Multiple<br><u>Dual - Gas - Gas</u>                                         |                                     |                                  |                             | Packer Set At<br>6330                                     |                                                             |
| Producing Thru<br>Tubing                                                                                                  |                                     | Reservoir Temp. °F<br>#          |                             | Mean Annual Temp. °F                                      |                                                             |
|                                                                                                                           |                                     |                                  |                             | Baro. Press. - P <sub>a</sub><br>12                       |                                                             |
| State<br><u>New Mexico</u>                                                                                                |                                     |                                  |                             |                                                           |                                                             |
| L<br>6101                                                                                                                 | H                                   | G <sub>g</sub><br>0.650          | % CO <sub>2</sub>           | % N <sub>2</sub>                                          | % H <sub>2</sub> S                                          |
| Prover                                                                                                                    |                                     | Meter Run                        |                             | Taps                                                      |                                                             |
| FLOW DATA                                                                                                                 |                                     |                                  |                             |                                                           |                                                             |
| NO.                                                                                                                       | Prover Line Size                    | X                                | Orifice Size                | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                        |
| SI                                                                                                                        | 2"                                  |                                  | 3/4"                        |                                                           |                                                             |
| 1.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 2.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 3.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 4.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 5.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| TUBING DATA                                                                                                               |                                     |                                  |                             |                                                           |                                                             |
|                                                                                                                           | Press. p.s.i.g.                     | Temp. °F                         |                             |                                                           |                                                             |
|                                                                                                                           | 833                                 | 56°                              |                             |                                                           |                                                             |
|                                                                                                                           | 290                                 |                                  |                             |                                                           |                                                             |
| CASING DATA                                                                                                               |                                     |                                  |                             |                                                           |                                                             |
|                                                                                                                           | Press. p.s.i.g.                     | Temp. °F                         |                             |                                                           |                                                             |
|                                                                                                                           | 840                                 |                                  |                             |                                                           |                                                             |
|                                                                                                                           | 703                                 |                                  |                             |                                                           |                                                             |
| Duration of Flow<br>14 Days<br>3 Hours                                                                                    |                                     |                                  |                             |                                                           |                                                             |
| RATE OF FLOW CALCULATIONS                                                                                                 |                                     |                                  |                             |                                                           |                                                             |
| NO.                                                                                                                       | Coefficient (24 Hour)               | $\sqrt{h_w P_m}$                 | Pressure P <sub>m</sub>     | Flow Temp. Factor Ft.                                     | Gravity Factor F <sub>g</sub>                               |
| 1                                                                                                                         | 12.3650                             |                                  | 302                         | 1.0039                                                    | 0.9608                                                      |
| 2.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 3.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 4.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| 5.                                                                                                                        |                                     |                                  |                             |                                                           |                                                             |
| NO.                                                                                                                       | P <sub>r</sub>                      | Temp. °R                         | T <sub>r</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.                 |
| 1.                                                                                                                        |                                     |                                  |                             |                                                           | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.            |
| 2.                                                                                                                        |                                     |                                  |                             |                                                           | Specific Gravity Separator Gas _____ X X X X X X X X        |
| 3.                                                                                                                        |                                     |                                  |                             |                                                           | Specific Gravity Flowing Fluid _____ X X X X X              |
| 4.                                                                                                                        |                                     |                                  |                             |                                                           | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.             |
| 5.                                                                                                                        |                                     |                                  |                             |                                                           | Critical Temperature _____ R _____ R                        |
| P <sub>c</sub> 852                                                                                                        | P <sub>c</sub> <sup>2</sup> 725,904 |                                  |                             |                                                           |                                                             |
| NO.                                                                                                                       | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub>                   | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3813$                  |
| 1                                                                                                                         |                                     | 715                              | 511,225                     | 214,679                                                   | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4934$ |
| 2                                                                                                                         |                                     |                                  |                             |                                                           |                                                             |
| 3                                                                                                                         |                                     |                                  |                             |                                                           |                                                             |
| 4                                                                                                                         |                                     |                                  |                             |                                                           |                                                             |
| 5                                                                                                                         |                                     |                                  |                             |                                                           |                                                             |
| Absolute Open Flow _____ Mcf @ 15.025                                                                                     |                                     |                                  |                             |                                                           | Angle of Slope θ _____                                      |
| Slope, n _____ 0.75                                                                                                       |                                     |                                  |                             |                                                           |                                                             |
| Remarks: _____                                                                                                            |                                     |                                  |                             |                                                           |                                                             |
| Approved By Division                                                                                                      |                                     | Conducted By:<br>Steve Stevenson |                             | Calculated By:<br>Ken Roddy                               |                                                             |
|                                                                                                                           |                                     |                                  |                             | Checked By:                                               |                                                             |