

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>11-6-80                |           |                                          |  |
| Company<br>El Paso Natural Gas Company                                                                                    |             |                         |                   | Connection<br>El Paso Natural Gas Company |                    |                                     |           |                                          |  |
| Pool<br>Blanco                                                                                                            |             |                         |                   | Formation<br>Mesa Verde                   |                    |                                     |           | Unit<br>San Juan 30-6                    |  |
| Completion Date<br>10-25-80                                                                                               |             | Total Depth<br>6397     |                   | Plug Back TD<br>6354                      |                    | Elevation<br>6836 G.R.              |           | Farm or Lease Name<br>San Juan 30-6 Unit |  |
| Csg. Size<br>7.000                                                                                                        | Wt.<br>20.0 | d<br>6.456              | Set At<br>4152    | Perforations:<br>From 5551 To 6140        |                    | Well No.<br>#58A                    |           |                                          |  |
| Tbg. Size<br>1.900                                                                                                        | Wt.<br>2.9  | d<br>1.610              | Set At<br>6101    | Perforations:<br>From To                  |                    | Unit Sec. Twp. Rge.<br>C 31 30 6    |           |                                          |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |             |                         |                   |                                           |                    | Packer Set At                       |           | County<br>Rio Arriba                     |  |
| Producing Thru<br>Tbg.                                                                                                    |             | Reservoir Temp. °F<br>p |                   | Mean Annual Temp. °F                      |                    | Baro. Press. - P <sub>a</sub><br>12 |           | State<br>New Mexico                      |  |
| L                                                                                                                         | H           | G <sub>g</sub>          | % 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        |                  |   |              |                 |                      |             | 527             |             | 782             |                  | 12 Days  |
| 1.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 3.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 5.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                               |  | Super. Compress. Factor, F <sub>sp</sub> | Rate of Flow Q, Mcfd |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|--|------------------------------------------|----------------------|
| 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                         |                       |                  |                         |                       |                               |  |                                          |                      |
| 2                         |                       |                  |                         |                       |                               |  |                                          |                      |
| 3                         |                       |                  |                         |                       |                               |  |                                          |                      |
| 4                         |                       |                  |                         |                       |                               |  |                                          |                      |
| 5                         |                       |                  |                         |                       |                               |  |                                          |                      |

  

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

  

| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</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   |                             |                             |                             |                                                           |                                     |                                                      |
| 2   |                             |                             |                             |                                                           |                                     |                                                      |
| 3   |                             |                             |                             |                                                           |                                     |                                                      |
| 4   |                             |                             |                             |                                                           |                                     |                                                      |
| 5   |                             |                             |                             |                                                           |                                     |                                                      |

  

|                      |  |                                   |  |                                  |                  |               |
|----------------------|--|-----------------------------------|--|----------------------------------|------------------|---------------|
| Absolute Open Flow   |  |                                   |  | Mcf @ 15.025                     | Angle of Slope @ | Slope, n 0.75 |
| Remarks:             |  |                                   |  |                                  |                  |               |
| Approved By Division |  | Conducted By:<br>Bobby Easterling |  | Calculated By:<br>H. E. McAnally |                  | Checked By:   |