

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>2-25-80   |                               |                    |                             |
| Company<br>El Paso Natural Gas Co.                                                                                        |            |                         |                   |                                   | Connection             |                               |                    |                             |
| Pool<br>Undes. Mt Nebo                                                                                                    |            |                         |                   |                                   | Formation<br>Fruitland |                               | Unit               |                             |
| Completion Date<br>2-4-80                                                                                                 |            | Total Depth<br>3029     |                   | Plug Back TD<br>2850              |                        | Elevation                     |                    | Farm or Lease Name<br>Scott |
| Csg. Size<br>2 7/8                                                                                                        | wt.<br>6.5 | d<br>2.441              | Set At<br>3029    | Perforations<br>From 2690 To 2700 |                        | Well No.<br>#21               |                    |                             |
| Fig. Size<br>NO                                                                                                           | wt.        | d                       | Set At            | Perforations<br>From To           |                        | Unit<br>G                     |                    | Sec. Twp. Ryes.<br>29 32 10 |
| Type Well - Single - Broadhead - G.G. or G.O. Multiple<br>Single                                                          |            |                         |                   |                                   | Packer Set At          |                               | County<br>San Juan |                             |
| Producing Thru                                                                                                            |            | Reservoir Temp. °F<br>a |                   | Mean Annual Temp. °F              |                        | Baro. Press. - P <sub>a</sub> |                    | 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        |                  |   |              |                 |                      |             |                 |             | 554             |                  | 21 Days  |
| 1.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 3.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 4.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 5.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |

  

| RATE OF FLOW CALCULATIONS |                       |                     |                         |                       |                   |                                          |                      |
|---------------------------|-----------------------|---------------------|-------------------------|-----------------------|-------------------|------------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_{in}}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super. Compress. Factor, F <sub>sp</sub> | Rate of Flow Q, Mscf |
| 1                         |                       |                     |                         |                       |                   |                                          |                      |
| 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.G. 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.        |
| 5   |                |          |                |   | Critical Temperature                  | °R              |

  

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

  

Absolute Open Flow \_\_\_\_\_ Mcf @ 15.025    Angle of Slope @ \_\_\_\_\_    Slope, n \_\_\_\_\_

