

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

**RECEIVED**

|                                                                                                                           |                    |                             |                          |                                        |                                     |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|--------------------------|----------------------------------------|-------------------------------------|
| Type Test<br><input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |                    | Test Date<br>9/18/84        |                          | SEP 24 1984                            |                                     |
| Company<br>Union Texas Petroleum Corp.                                                                                    |                    |                             | Connection               |                                        |                                     |
| Pool<br>Mt. Nebo                                                                                                          |                    |                             | Formation<br>Fruitland   |                                        | OIL CON. DIV.<br>Unit DIST. 3       |
| Completion Date<br>5/16/84                                                                                                |                    | Total Depth<br>3121         |                          | Plug Back TD<br>3120                   |                                     |
| Elevation<br>6334                                                                                                         |                    | Farm or Lease Name<br>Payne |                          |                                        |                                     |
| Crp. Size<br>7.000 4.500                                                                                                  | Wt. 23.00<br>11.60 | d 6.366<br>4.000            | Set At 3072<br>3015-3120 | Perforations: Slotted Liner<br>From To |                                     |
| Trg. Size<br>2.375                                                                                                        | Wt. 4.70           | d 1.995                     | Set At 2998              | Perforations:<br>From 2962 To 2968     |                                     |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single Gas                                                     |                    |                             | Packer Set At<br>----    |                                        | County<br>San Juan                  |
| Producing Thru<br>Casing                                                                                                  |                    | Reservoir Temp. °F<br>@     | Moan Annual Temp. °F     |                                        | Baro. Press. - P <sub>a</sub><br>12 |
| State<br>New Mexico                                                                                                       |                    |                             |                          |                                        |                                     |
| L<br>3062                                                                                                                 | 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 |                  |   |              |                 |                      | 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        | 2"               |   | 3/4"         |                 |                      |             |                 |             | 1325            |                  | 19 days  |
| 1.        |                  |   |              |                 |                      |             |                 |             | 155             | 60°              | 3 hours  |
| 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 Ft | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.3650               |                  | 167                     | 1.0000               | 0.9608                        | 1.015                                   | 2014                 |
| 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                 |

  

| NO. | 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) $\frac{P_r^2}{P_r^2 - P_w^2} =$ | (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$ |
|-----|-----------------------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 1337                        | 1.787.569                   | 28,265                                                    | 1.0161                              | 1.0136                                               |
| 2   |                             |                             |                                                           |                                     |                                                      |
| 3   |                             |                             |                                                           |                                     |                                                      |
| 4   |                             |                             |                                                           |                                     |                                                      |
| 5   |                             |                             |                                                           |                                     |                                                      |

  

|                                                   |  |                                   |  |                             |
|---------------------------------------------------|--|-----------------------------------|--|-----------------------------|
| Absolute Open Flow _____ 2041 _____ Mcfd @ 15.025 |  | Angle of Slope @ _____            |  | Slope, n _____ 0.85         |
| Remarks: _____                                    |  |                                   |  |                             |
| Approved by Commission:                           |  | Conducted by:<br>Connie Clevenger |  | Calculated by:<br>Ken Roddy |
|                                                   |  |                                   |  | Checked by:                 |