

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST, OR GAS WELL

Form C-122  
Revised 9-1-65

RECEIVED

|                                                                                                                           |             |                                     |                           |                                        |                                           |                                       |                      |                                   |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------|---------------------------|----------------------------------------|-------------------------------------------|---------------------------------------|----------------------|-----------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                                     |                           |                                        | Test Date<br>5-23-79                      |                                       | JUN 4 1979           |                                   |  |
| Company<br>AMOCO PRODUCTION COMPANY                                                                                       |             |                                     |                           |                                        | Connection<br>EL PASO NATURAL GAS COMPANY |                                       |                      |                                   |  |
| Pool<br>WILDCAT                                                                                                           |             |                                     |                           |                                        | Formation<br>ATOKA                        |                                       | Unit<br>N 17 23S 29E |                                   |  |
| Completion Date<br>9-12-78                                                                                                |             | Total Depth<br>13352.               |                           | Plug Back TD<br>12465.                 |                                           | Elevation<br>2990.                    |                      | Farm or Lease Name<br>TELEDYNE 17 |  |
| Csg. Size<br>5.000                                                                                                        | Wt.<br>18.0 | d<br>4.276                          | Set At<br>13352.          | Perforations:<br>From 12028. To 12050. |                                           | Well No.<br>1                         |                      |                                   |  |
| Tbg. Size<br>2.375                                                                                                        | Wt.<br>4.7  | d<br>1.995                          | Set At<br>11690.          | Perforations:<br>From 0. To 0.         |                                           | Unit Soc. Twp. Rge.<br>N 17 23S 29E   |                      |                                   |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>SINGLE                                                         |             |                                     |                           |                                        | Packer Set At<br>11168.                   |                                       | County<br>EDDY       |                                   |  |
| Producing Thru<br>TUBING                                                                                                  |             | Reservoir Temp. °F<br>208. @ 12039. |                           | Mean Annual Temp. °F<br>60.0           |                                           | Baro. Press. - P <sub>a</sub><br>13.2 |                      | State<br>NEW MEXICO               |  |
| L<br>12039.                                                                                                               | H<br>12039. | G <sub>g</sub><br>0.572             | % CO <sub>2</sub><br>0.38 | % N <sub>2</sub><br>0.61               | % H <sub>2</sub> S<br>0.                  | Prover<br>0.                          | Meter Run<br>4.0     | Taps<br>FLANGE                    |  |

  

| 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        |                  |   |              |                 |                      |          | 5335.           | 73.      |                 |          | 48.0             |
| 1.        | 4.03 x 2.500     |   |              | 644.            | 2.9                  | 58.      | 4980.           | 75.      | 0.              | 0.       | 1.0              |
| 2.        | 4.03 x 2.500     |   |              | 644.            | 6.2                  | 55.      | 4815.           | 76.      | 0.              | 0.       | 1.0              |
| 3.        | 4.03 x 2.500     |   |              | 644.            | 10.9                 | 52.      | 4538.           | 76.      | 0.              | 0.       | 1.0              |
| 4.        | 4.03 x 2.500     |   |              | 644.            | 18.5                 | 46.      | 4110.           | 78.      | 0.              | 0.       | 1.0              |
| 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                         | 32.64                 | 43.58            | 657.2                   | 1.0019                | 1.3222                        | 1.0529                                  | 1984.                |
| 2                         | 32.64                 | 64.09            | 657.2                   | 1.0048                | 1.3222                        | 1.0542                                  | 2930.                |
| 3                         | 32.64                 | 84.60            | 657.2                   | 1.0078                | 1.3222                        | 1.0555                                  | 3883.                |
| 4                         | 32.64                 | 110.23           | 657.2                   | 1.0137                | 1.3222                        | 1.0580                                  | 5102.                |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z     | Gas Liquid Hydrocarbon Ratio | A.P.I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|----------------|----------|----------------|-------|------------------------------|---------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1.  | 0.97           | 518.     | 1.49           | 0.902 | 0.                           | 0.                                    | 0.572                          | XXXXXX                         | 675.              | 347.                 |
| 2.  | 0.97           | 515.     | 1.48           | 0.900 |                              |                                       |                                | XXXXXX                         |                   |                      |
| 3.  | 0.97           | 512.     | 1.47           | 0.898 |                              |                                       |                                |                                |                   |                      |
| 4.  | 0.97           | 506.     | 1.46           | 0.893 |                              |                                       |                                |                                |                   |                      |
| 5.  |                |          |                |       |                              |                                       |                                |                                |                   |                      |

  

| $P_c = 5335.3$ $P_c^2 = 28465.$ |                             |                |                             | $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.5248$                |                                                                | $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9470$ |  |
|---------------------------------|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|--|
| 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> | $AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9934.$ |                                                             |  |
| 1                               | 24932                       | 4983.          | 24833.                      | 3632.                                                     |                                                                |                                                             |  |
| 2                               | 23312.                      | 4824.          | 23272.                      | 5194.                                                     |                                                                |                                                             |  |
| 3                               | 20713.                      | 4557.          | 20770.                      | 7695.                                                     |                                                                |                                                             |  |
| 4                               | 17001.                      | 4146.          | 17191.                      | 11274.                                                    |                                                                |                                                             |  |
| 5                               |                             |                |                             |                                                           |                                                                |                                                             |  |

  

|                    |  |       |               |                  |      |          |       |
|--------------------|--|-------|---------------|------------------|------|----------|-------|
| Absolute Open Flow |  | 9934. | Mcfd @ 15.025 | Angle of Slope θ | 54.3 | Slope, n | 0.719 |
| Remarks:           |  |       |               |                  |      |          |       |
|                    |  |       |               |                  |      |          |       |

  

|                         |                                  |                               |                             |
|-------------------------|----------------------------------|-------------------------------|-----------------------------|
| Approved By Commission: | Conducted By:<br>John West Engr. | Calculated By:<br>C.C. Weaver | Checked By:<br>W.D. Magness |
|-------------------------|----------------------------------|-------------------------------|-----------------------------|

3 - NMOC  
1 - Hou  
1 - Susp  
1 - WDM  
1 - DLB  
1 - Gettu