

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

Form C-122  
Revised 9-1-65

|                                                                                                                           |                         |                              |                                    |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                         | Test Date<br>11/10/78        |                                    |
| Company<br>Continental O. I. Co.                                                                                          |                         | Connection<br>None           |                                    |
| Pool<br>West Lindreth                                                                                                     |                         | Formation<br>Gallup Dakota   |                                    |
| Completion Date<br>9/26/78                                                                                                |                         | Total Depth<br>8250'         | Plug Back TD<br>8173'              |
|                                                                                                                           |                         | Elevation<br>7320'           | Farm or Lease Name<br>Sicarilla 20 |
| Csg. Size<br>5/2                                                                                                          | Wt.<br>17#              | d<br>4.892                   | Set At<br>8215'                    |
| Perforations:<br>From 7954 To 7752                                                                                        | Well No.<br>6           |                              |                                    |
| Trq. Size<br>23/8                                                                                                         | Wt.<br>4.7#             | d<br>1.995                   | Set At<br>7931'                    |
| Perforations:<br>From open ended.                                                                                         |                         |                              | Unit<br>N                          |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single Gas                                                     |                         |                              | Sec.<br>19                         |
| Packer Set At<br>None                                                                                                     |                         |                              | Twp.<br>25N                        |
| Producing Thru<br>7931'                                                                                                   | Reservoir Temp. °F<br>8 | Mean Annual Temp. °F<br>50°F | Rge.<br>4W                         |
| Baro. Press. - P <sub>a</sub><br>12.2                                                                                     |                         |                              | County<br>Rio Arriba               |
| State<br>N. Mex.                                                                                                          |                         |                              |                                    |
| H<br>7931'                                                                                                                | G <sub>g</sub><br>1.690 | % CO <sub>2</sub>            | % N <sub>2</sub>                   |
|                                                                                                                           |                         | % H <sub>2</sub> S           | Prover                             |
|                                                                                                                           |                         |                              | Meter Run<br>4 X 2                 |
|                                                                                                                           |                         |                              | Taps<br>Flg                        |

  

| FLOW DATA |                  |   |              |                 | TUBING DATA |          | CASING DATA     |          | Duration of Flow |                 |
|-----------|------------------|---|--------------|-----------------|-------------|----------|-----------------|----------|------------------|-----------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. hw    | Temp. °F | Press. p.s.i.g. | Temp. °F |                  | Press. p.s.i.g. |
| 1.        | 4                | X | 20           | 595             |             |          | 300             |          | 1250#            |                 |
| 2.        |                  |   |              |                 |             |          |                 |          | 595              | 24hr.           |
| 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                         | 19.81                 | 924              |                         | 1.000                 | 1.204                         | 1#                                      | 36.6                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>t</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>c</sub> | 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) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1   | 1250           | 1562500        | 3886                        | 1558614                                                   | 1.0025                              | 1.002                                                |
| 2   |                |                |                             |                                                           |                                     |                                                      |
| 3   |                |                |                             |                                                           |                                     |                                                      |
| 4   |                |                |                             |                                                           |                                     |                                                      |
| 5   |                |                |                             |                                                           |                                     |                                                      |

  

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 36.7$

  

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Absolute Open Flow _____ Mcfd @ 15.025 | Angle of Slope @ _____ Slope, n .75 |
|----------------------------------------|-------------------------------------|

  

Remarks: well on intermittent flow. 23 taps.

  

|                         |                              |                               |             |
|-------------------------|------------------------------|-------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>D. L. Moore | Calculated By:<br>D. L. Moore | Checked By: |
|-------------------------|------------------------------|-------------------------------|-------------|

VMC20, AZTEC (2), USGS, DURANGO (2), BIA, FILE