

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

RECEIVED  
Form C-122  
Revised 9-1-61

OCT 22 1982

451  
File

|                                                                                                    |            |                                   |                          |                                     |                              |
|----------------------------------------------------------------------------------------------------|------------|-----------------------------------|--------------------------|-------------------------------------|------------------------------|
| Type of Test<br><input checked="" type="checkbox"/> Multi-Point <input type="checkbox"/> One-Point |            | Date<br>10-12-82                  |                          | O. C. D.<br>ARTESIA, OFFICE         |                              |
| Well Name<br><i>Perry 2 Wells</i>                                                                  |            | Fluid<br>Air                      |                          | Well No.<br>K                       |                              |
| Completion Date<br>10-8-82                                                                         |            | Total Depth<br>12700              |                          | Elevation<br>3493GL                 |                              |
| Casing Size<br>9 5/8                                                                               |            | Set At<br>12700                   |                          | Perforations<br>From 12108 To 12111 |                              |
| Tubing Size<br>2 3/8                                                                               |            | Set At<br>11898                   |                          | Perforations<br>From 11898 To 11911 |                              |
| Type of Well - Single - Production - G.G. or G.O. Multiple<br>Single Gas                           |            |                                   |                          | Packer Set At<br>11898              |                              |
| Producing Interval<br>Tbg.                                                                         |            | Reservoir Temp. °F<br>193 @ 11892 |                          | Mean Annual Temp. °F<br>60          |                              |
| Baro. Press. - P <sub>0</sub><br>13.2                                                              |            | County<br>Eddy                    |                          | State<br>NM                         |                              |
| L<br>11892                                                                                         | H<br>11892 | G <sub>g</sub><br>.6762           | % CO <sub>2</sub><br>.14 | % N <sub>2</sub><br>.828            | % H <sub>2</sub> S<br>Prover |
| Meter Run<br>4                                                                                     |            | Tags<br>Flg.                      |                          |                                     |                              |

  

| FLOW DATA |                  |   |              |             |          | TUBING DATA |             | CASING DATA |             | Duration of Flow |          |
|-----------|------------------|---|--------------|-------------|----------|-------------|-------------|-------------|-------------|------------------|----------|
| NO.       | Prover Line Size | X | Orifice Size | Press. psid | Eff. in. | Temp. °F    | Press. psid | Temp. °F    | Press. psid |                  | Temp. °F |
| 1.        | 4 X .750         |   |              | 510         | 8.0      | 88          | 4025        |             |             |                  | 24 hrs   |
| 2.        | 4 X .750         |   |              | 510         | 28.0     | 92          | 3560        |             |             |                  | 2 hrs    |
| 3.        | 4 X .750         |   |              | 520         | 55.0     | 79          | 3000        |             |             |                  | 2 hrs    |
| 4.        | 4 X 1.750        |   |              | 500         | 12.0     | 80          | 975         |             |             |                  | 6 hrs    |
| 5.        |                  |   |              |             |          |             |             |             |             |                  |          |

  

| RATE OF FLOW CALCULATIONS |                        |                  |                         |                      |                   |                                     |                        |
|---------------------------|------------------------|------------------|-------------------------|----------------------|-------------------|-------------------------------------|------------------------|
| NO.                       | Coefficient (24 Hours) | $\sqrt{P_0 P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor FL | Gravity Factor FG | Super Comp. Factor, F <sub>sp</sub> | Rate of Flow Q, Mscf/d |
| 1.                        | 2.661                  | 64.70            | 523.2                   | .9741                | 1.216             | 1.051                               | 214                    |
| 2.                        | 2.661                  | 121.04           | 523.2                   | .9706                | 1.216             | 1.049                               | 399                    |
| 3.                        | 2.661                  | 171.25           | 533.2                   | .9822                | 1.216             | 1.055                               | 574                    |
| 4.                        | 14.93                  | 78.48            | 513.2                   | .9813                | 1.216             | 1.052                               | 1471                   |
| 5.                        |                        |                  |                         |                      |                   |                                     |                        |

  

| NO. | P   | Temp. °F | q    | Z    | Gas-Liquid Hydrocarbon Ratio | App. Gravity of Liquid Hydrocarbon | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure | Critical Temperature |
|-----|-----|----------|------|------|------------------------------|------------------------------------|--------------------------------|--------------------------------|-------------------|----------------------|
| 1.  | .78 | 548      | 1.42 | .905 | 3.8425                       | 54.6 @ 60°                         | .6762                          | XXXXXX                         | 669               | 385                  |
| 2.  | .78 | 552      | 1.43 | .908 |                              |                                    |                                | XXXXX                          |                   |                      |
| 3.  | .80 | 539      | 1.40 | .899 |                              |                                    |                                |                                |                   |                      |
| 4.  | .77 | 540      | 1.40 | .903 |                              |                                    |                                |                                |                   |                      |
| 5.  |     |          |      |      |                              |                                    |                                |                                |                   |                      |

  

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| 1.  | 6768.2 | 45808.5  | 4391.6 |   | 1.155                        |                                    |                                | 1.127                          |                   |                      |
| 2.  | 6205.2 | 38504.5  | 1695.6 |   |                              |                                    |                                |                                |                   |                      |
| 3.  | 5596.2 | 31317.5  | 1888.2 |   |                              |                                    |                                |                                |                   |                      |
| 4.  | 2594.2 | 6729.9   | 3470.2 |   |                              |                                    |                                |                                |                   |                      |
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