

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm 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>8/27/81         |                                     |
| Company<br>DEPCO, INC.                                                                                                    |              |                               |                                      | Connection<br>not connected  |                                     |
| Pool<br>West Kutz                                                                                                         |              |                               |                                      | Formation<br>Pictured Cliffs |                                     |
| Completion Date<br>8/19/81                                                                                                |              | Total Depth<br>1910' KB       |                                      | Plug Back TD<br>1860' KB     |                                     |
| Elevation<br>6169' GL                                                                                                     |              | Form or Lease Name<br>Federal |                                      |                              |                                     |
| Cwg. Size<br>4.5"                                                                                                         | Wt.<br>10.5# | Set At<br>1896' KB            | Perforations:<br>From 1708' To 1714' |                              | Well No.<br>30 #44                  |
| Tbg. Size<br>1.315"                                                                                                       | Wt.<br>1.7#  | Set At<br>1706' KB            | Perforations:<br>From To             |                              | Unit Sec. Twp. Rye.<br>P 30 27N 11W |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |              |                               |                                      | Packer Set At<br>-           |                                     |
| Producing Thru<br>Tbg.                                                                                                    |              | Reservoir Temp. °F<br>θ       |                                      | Mean Annual Temp. °F         |                                     |
| Boro. Press. - P <sub>0</sub>                                                                                             |              | State<br>New Mexico           |                                      |                              |                                     |
| L                                                                                                                         | H            | Gg                            | % 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        |                  |   |              |                 |                      |             | 467#            |             | 467#            |                  | 7 day SI |
| 1.        | 2                | X | 3/4"         |                 |                      |             | -               |             | 283#            |                  | 3 hrs.   |
| 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 Fg | Super. Compress. Factor, Fpv | Rate of Flow O, Mcfd |
| 1                         |                       |                  |                         |                       |                   |                              |                      |
| 2                         |                       |                  |                         |                       |                   |                              |                      |
| 3                         |                       |                  |                         |                       |                   |                              |                      |
| 4                         |                       |                  |                         |                       |                   |                              |                      |
| 5                         |                       |                  |                         |                       |                   |                              |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>t</sub> | Z | Gas Liquid Hydrocarbon Ratio         | Mc/bbl.  |
|-----|----------------|----------|----------------|---|--------------------------------------|----------|
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbon | Deq.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas       | XXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid       |          |
| 4.  |                |          |                |   | Critical Pressure                    | P.S.I.A. |
| 5.  |                |          |                |   | Critical Temperature                 | R        |

  

| NO. | P <sub>t</sub> | P <sub>w</sub> | P <sub>c</sub> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|----------------|-----------------------------------------------------------|
| 1   | -              | 295            | 87025          | 142,416                                                   |
| 2   |                |                |                |                                                           |
| 3   |                |                |                |                                                           |
| 4   |                |                |                |                                                           |
| 5   |                |                |                |                                                           |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6111$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 171$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4998$

  

|                    |     |               |                  |              |
|--------------------|-----|---------------|------------------|--------------|
| Absolute Open Flow | 171 | Mcfd @ 15.025 | Angle of Slope θ | Slope, n .85 |
|--------------------|-----|---------------|------------------|--------------|

  

|                    |                     |                      |                   |
|--------------------|---------------------|----------------------|-------------------|
| Approved By: _____ | Conducted By: _____ | Calculated By: _____ | Checked By: _____ |
|                    | Crum                | Crum                 |                   |