

2-OCC, Aztec, N.M.

1-D

1-F

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>7/7/80                 |                                                                                      |
| Company<br>DEPCO, INC.                                                                                                    |                         | Connection<br>not connected         |                                                                                      |
| Pool<br>West Kutz                                                                                                         |                         | Formation<br>Pictured Cliffs        |                                                                                      |
| Completion Date<br>6/25/80                                                                                                | Total Depth<br>1940' KB | Plug Back TD<br>1868' KB            | Elevation<br>6189' GL                                                                |
| Farm or Lease Name<br>Federal                                                                                             |                         | Well No.<br>41-32                   |                                                                                      |
| Crg. Size<br>4.5"                                                                                                         | Wt.<br>10.5#            | Set At<br>1940'                     | Perforations:<br>From 1710' To 1756'                                                 |
| Tbg. Size<br>1.315"                                                                                                       | Wt.<br>1.7#             | Set At<br>1755'                     | Perforations:<br>From To                                                             |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |                         | Packer Set At                       | County<br>San Juan                                                                   |
| Producing Thru<br>Tbg.                                                                                                    | Reservoir Temp. °F<br>θ | Mean Annual Temp. °F                | Baro. Press. - P <sub>a</sub>                                                        |
| State<br>New Mexico                                                                                                       |                         | Unit Sec. Twp. Rge.<br>A 32 27N 11W |                                                                                      |
| 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        |                  |   |              |                 |                      |             | 409#            |             | 412#            |                  | 7 day SI |
| 1.        | 2                | X | 3/4"         |                 |                      |             | 61              | 51          | 259#            |                  | 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 F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow O. Mcd |
| 1                         | 12.3650               |                  | 73                      | 1.0088                | 1.0000                        | 1.0000                                  | 910                 |
| 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 X X |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid        | X X X X X           |
| 4   |                |          |                |   | Critical Pressure                     | P.S.I.A.            |
| 5   |                |          |                |   | Critical Temperature                  | R                   |

  

| P <sub>c</sub> 424 | P <sub>c</sub> <sup>2</sup> 179,776 |                |                             |                                                           |                                            |                                                             |
|--------------------|-------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| NO.                | P <sub>r</sub>                      | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.6907$ | (2) $\left[ \frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.5626$ |
| 1                  | -                                   | 271            | 73,441                      | 106,335                                                   |                                            |                                                             |
| 2                  |                                     |                |                             |                                                           |                                            |                                                             |
| 3                  |                                     |                |                             |                                                           |                                            |                                                             |
| 4                  |                                     |                |                             |                                                           |                                            |                                                             |
| 5                  |                                     |                |                             |                                                           |                                            |                                                             |

  

|                                       |  |                  |              |
|---------------------------------------|--|------------------|--------------|
| Absolute Open Flow 1,422 Mcf @ 15.025 |  | Angle of Slope θ | Slope, n .85 |
| Remarks:                              |  |                  |              |

  

|                         |                       |                        |             |
|-------------------------|-----------------------|------------------------|-------------|
| Approved By Commission: | Conducted By:<br>Crum | Calculated By:<br>Crum | Checked By: |
|-------------------------|-----------------------|------------------------|-------------|