

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

Form C-122  
Revised 9-1-65

|                                                                                                                        |                 |                                        |                               |                                            |                             |                                                            |                                   |
|------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|-------------------------------|--------------------------------------------|-----------------------------|------------------------------------------------------------|-----------------------------------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                 |                                        |                               |                                            |                             | Test Date <b>5/9/77</b>                                    |                                   |
| Company <b>Texaco Inc.</b>                                                                                             |                 |                                        |                               | Connection <b>El Paso Natural Gas</b>      |                             |                                                            |                                   |
| Pool <del>Wildcat</del> <b>Paduca Wolfcamp</b>                                                                         |                 |                                        |                               | Formation <b>Wolfcamp</b>                  |                             | Unit                                                       |                                   |
| Completion Date <b>5/2/77</b>                                                                                          |                 | Total Depth <b>16,868</b>              |                               | Plug Back TD <b>14,030</b>                 |                             | Elevation <b>3457 (DF)</b>                                 |                                   |
| Farm or Lease Name <b>Cotton Draw Unit</b>                                                                             |                 |                                        |                               |                                            |                             |                                                            |                                   |
| Csg. Size <b>7-5/8</b>                                                                                                 | Wt. <b>39</b>   | d <b>6.625</b>                         | Set At <b>14680</b>           | Perforations: <b>From 12,895 To 12,972</b> |                             | Well No. <b>68</b>                                         |                                   |
| Thq. Size <b>2-7/8</b>                                                                                                 | Wt. <b>6.50</b> | d <b>2.441</b>                         | Set At <b>12,855</b>          | Perforations: <b>From To</b>               |                             | Unit <b>F</b> Sec. <b>12</b> Twp. <b>25</b> Rge. <b>31</b> |                                   |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single Gas</b>                                              |                 |                                        |                               | Packer Set At <b>12,855</b>                |                             | County <b>Eddy</b>                                         |                                   |
| Producing Thru <b>Tubing</b>                                                                                           |                 | Reservoir Temp. °F <b>171 @ 12,855</b> |                               | Mean Annual Temp. °F                       |                             | Baro. Press. - P <sub>a</sub> <b>13.2</b>                  |                                   |
| State <b>New Mexico</b>                                                                                                |                 |                                        |                               |                                            |                             |                                                            |                                   |
| L <b>12,855</b>                                                                                                        | H <b>12,855</b> | Gg <b>0.637</b>                        | % CO <sub>2</sub> <b>6.31</b> | % N <sub>2</sub> <b>6.74</b>               | % H <sub>2</sub> S <b>-</b> | Prover <b>-</b>                                            | Meter Run <b>4"</b> Taps <b>-</b> |

  

| 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. | Temp. °F |                  |
| 1.        | 4                |   | 2.000        | 89.2            | 9        | 75       | 351             | 60       |                 |          | 24 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 Q, Mcfd |
| 1                         | 19.81                 | 30.36            | 102.4                   | .9859                 | 1.165             | 1.014                       | 700                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

  

|     |                |          |                |      |                                                                                         |
|-----|----------------|----------|----------------|------|-----------------------------------------------------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.                                             |
| 1   | 0.15           | 535      | 1.44           | .973 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.                                        |
| 2.  |                |          |                |      | Specific Gravity Separator Gas <b>0.637</b> <span style="float:right">XXXXXXXXXX</span> |
| 3.  |                |          |                |      | Specific Gravity Flowing Fluid <span style="float:right">XXXXXX</span>                  |
| 4.  |                |          |                |      | Critical Pressure _____ P.S.I.A. <span style="float:right">670 P.S.I.A.</span>          |
| 5.  |                |          |                |      | Critical Temperature _____ R <span style="float:right">372 R</span>                     |

  

|                            |                                           |                                           |                                                            |
|----------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------|
| P <sub>c</sub> <b>4204</b> | P <sub>c</sub> <sup>2</sup> <b>17,673</b> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.012$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.012$ |
| NO.                        | P <sub>r</sub> <sup>2</sup>               | P <sub>w</sub>                            | P <sub>w</sub> <sup>2</sup>                                |
| 1                          | 132                                       | 473                                       | 224                                                        |
| 2.                         |                                           |                                           |                                                            |
| 3.                         |                                           |                                           |                                                            |
| 4.                         |                                           |                                           |                                                            |
| 5.                         |                                           |                                           |                                                            |

  

|                                                              |                                    |                      |
|--------------------------------------------------------------|------------------------------------|----------------------|
| ACF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 709$ | Angle of Slope $\theta$ <b>45°</b> | Slope, n <b>1.00</b> |
|--------------------------------------------------------------|------------------------------------|----------------------|

  

Remarks: **Initial S.I.P., 8150 - flowed well 10 days @ 1,000 MCFD. Shut in 72 hrs. S.I.P. 4204. No stability, pressure climbing @ 8 psi/hr. Well depleting rapidly.**

|                         |                          |                           |             |
|-------------------------|--------------------------|---------------------------|-------------|
| Approved By Commission: | Conducted By: <b>Lee</b> | Calculated By: <b>Lee</b> | Checked By: |
|-------------------------|--------------------------|---------------------------|-------------|