

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

Form C-122  
 Revised 9-1-66

0000000003

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |                          |                             |                             | Test Date<br>10-4-83                                      |                                                                                                        | <b>OIL CON. DIV.]</b><br><b>DIST. 3</b>       |                         |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|
| Company<br>Amoco Production Company                                                                                                  |                          |                             |                             | Connection<br>El Paso Natural Gas Company                 |                                                                                                        |                                               |                         |
| Pool<br>Basin                                                                                                                        |                          |                             |                             | Formation<br>Dakota                                       |                                                                                                        | Unit                                          |                         |
| Completion Date<br>9-15-83                                                                                                           |                          | Total Depth<br>6374'        |                             | Plug Back TD<br>6323'                                     |                                                                                                        | Elevation<br>5923GL                           |                         |
| Csg. Size<br>4.500                                                                                                                   |                          | Wt.<br>10.5                 |                             | Set At<br>4.052                                           |                                                                                                        | Perforations:<br>From 6141 To 6320            |                         |
| Thq. Size<br>2.375                                                                                                                   |                          | Wt.<br>4.7                  |                             | Set At<br>1.995                                           |                                                                                                        | Perforations:<br>From Open To Ended           |                         |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>Single                                                                    |                          |                             |                             | Packer Set At<br>None                                     |                                                                                                        | Well No.<br>6E                                |                         |
| Producing Thru<br>tubing                                                                                                             |                          | Reservoir Temp. °F<br>8     |                             | Mean Annual Temp. °F                                      |                                                                                                        | Baro. Press. - P <sub>a</sub>                 |                         |
| L                                                                                                                                    |                          | H                           |                             | G <sub>g</sub>                                            |                                                                                                        | % CO <sub>2</sub>                             |                         |
|                                                                                                                                      |                          |                             |                             |                                                           |                                                                                                        | % H <sub>2</sub>                              |                         |
|                                                                                                                                      |                          |                             |                             |                                                           |                                                                                                        | % H <sub>2</sub> S                            |                         |
|                                                                                                                                      |                          |                             |                             |                                                           |                                                                                                        | Prover                                        |                         |
|                                                                                                                                      |                          |                             |                             |                                                           |                                                                                                        | Meter Run                                     |                         |
|                                                                                                                                      |                          |                             |                             |                                                           |                                                                                                        | Taps                                          |                         |
| FLOW DATA                                                                                                                            |                          |                             |                             | TUBING DATA                                               |                                                                                                        | CASING DATA                                   |                         |
| NO.                                                                                                                                  | Prover<br>Line<br>Size   | X                           | Orifice<br>Size             | Press.<br>p.s.i.g.                                        | Diff.<br>h <sub>w</sub>                                                                                | Temp.<br>°F                                   | Press.<br>p.s.i.g.      |
| SI                                                                                                                                   | 12 Days                  |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 1.                                                                                                                                   | 2.375                    | .750                        |                             |                                                           |                                                                                                        |                                               |                         |
| 2.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 3.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 4.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 5.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| RATE OF FLOW CALCULATIONS                                                                                                            |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| NO.                                                                                                                                  | Coefficient<br>(24 Hour) | $\sqrt{h_w P_m}$            | Pressure<br>P <sub>m</sub>  | Flow Temp.<br>Factor<br>F <sub>t</sub>                    | Gravity<br>Factor<br>F <sub>g</sub>                                                                    | Super<br>Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |
| 1                                                                                                                                    | 12.365                   |                             | 64                          | 1.000                                                     | .9258                                                                                                  | 1.007                                         | 738                     |
| 2.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 3.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 4.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 5.                                                                                                                                   |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| NO.                                                                                                                                  | P <sub>t</sub>           | Temp. °R                    | T <sub>t</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                                                                   |                                               |                         |
| P <sub>c</sub> 1394      P <sub>c</sub> <sup>2</sup> 1943236                                                                         |                          |                             |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0835$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0620$ |                                               |                         |
| NO.                                                                                                                                  | P <sub>t</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> | AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 784$                                           |                                               |                         |
| 1                                                                                                                                    |                          | 387                         | 149769                      | 1793467                                                   |                                                                                                        |                                               |                         |
| 2                                                                                                                                    |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 3                                                                                                                                    |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| 4                                                                                                                                    |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| Absolute Open Flow 784 Mcfd @ 15.025                                                                                                 |                          |                             |                             |                                                           | Angle of Slope θ _____                                                                                 |                                               | Slope, n .75            |
| Remarks: Drilled and completed by True Drilling Company. Med. flow water, med. flow oil.                                             |                          |                             |                             |                                                           |                                                                                                        |                                               |                         |
| Approved By: _____                                                                                                                   |                          | Conducted By: J. L. Barnett |                             | Calculated By: J. L. Barnett                              |                                                                                                        | Checked By: _____                             |                         |