

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND 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 checked="" type="checkbox"/> Special |             |                         |                   |                                           | Test Date<br>4/20/81 |                                      |
| Company<br>Amoco Production Company                                                                                               |             |                         |                   | Connection<br>El Paso Natural Gas Company |                      |                                      |
| Pool<br>Basin                                                                                                                     |             |                         |                   | Formation<br>Dakota                       |                      | Unit                                 |
| Completion Date<br>4/9/81                                                                                                         |             | Total Depth<br>7007     |                   | Plug Back TD<br>6842                      |                      | Elevation<br>6463                    |
| Farm or Lease Name<br>Martin Gas Com                                                                                              |             |                         |                   |                                           |                      | Well No.<br>1E                       |
| Csg. Size<br>4.500                                                                                                                | Wt.<br>11.6 | d<br>4.000              | Set At<br>7007    | Perforations:<br>From 6704 To 6828        |                      | Unit Sec. Temp. Hgs.<br>J 15 27N 10W |
| Tbg. Size<br>2.375                                                                                                                | Wt.<br>4.7  | d<br>1.995              | Set At<br>6811    | Perforations:<br>From open To ended       |                      | County<br>San Juan                   |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>Single                                                                 |             |                         |                   | Packer Set At<br>None                     |                      | State<br>New Mexico                  |
| Producing Thru<br>Tubing                                                                                                          |             | Reservoir Temp. °F<br>@ |                   | Mean Annual Temp. °F                      |                      | Baro. Press. - P <sub>a</sub>        |
| 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         |
| 5         | 8 days           |   |              |                 |                      |             | 770             |             | 775             |                  |
| 1.        | 2.375            |   | .750         |                 |                      |             | 140             |             | 590             | 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 Q, Mcfd |
| 1                         | 12.365                |                  | 152                     | 1.000                 | .9258             | 1.017                       | 1770                 |
| 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 |
| 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> 787 | P <sub>c</sub> <sup>2</sup> 619369 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.4103$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9344$ |
| NO.                | P <sub>w</sub>                     | P <sub>w</sub> <sup>2</sup>                | P <sub>w</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup>   |
| 1                  | 602                                | 362404                                     | 256965                                                      |
| 2                  |                                    |                                            |                                                             |
| 3                  |                                    |                                            |                                                             |
| 4                  |                                    |                                            |                                                             |
| 5                  |                                    |                                            |                                                             |

  

|                         |  |              |                  |              |
|-------------------------|--|--------------|------------------|--------------|
| Absolute Open Flow 3424 |  | Mcf @ 15.025 | Angle of Slope @ | Slope, n .75 |
|-------------------------|--|--------------|------------------|--------------|

  

Remarks: Heavy oil lite H<sub>2</sub>O

  

|                        |                     |                              |                   |
|------------------------|---------------------|------------------------------|-------------------|
| Approved by Commission | Conducted By<br>JJJ | Calculated By<br>J J BARNETT | Checked By<br>CLB |
|------------------------|---------------------|------------------------------|-------------------|