

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR ONE WELL

|                                                                                                                                      |            |                                            |                      |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------|----------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |            | Test Date<br>12-7-84                       |                      |
| Company<br>Amoco Production Co.                                                                                                      |            | Connection<br>El Paso Natural Gas Co.      |                      |
| Pool<br>Basin                                                                                                                        |            | Formation<br>Dakota                        |                      |
| Completion Date<br>11-8-84                                                                                                           |            | Total Depth<br>6353                        | Plug Back TD<br>6295 |
| Elevation<br>5771 GL                                                                                                                 |            | Farm or Lease Name<br>Gallegos Canyon Unit |                      |
| Ceq. Size<br>7.000                                                                                                                   | Wt.<br>23  | d<br>6.366                                 | Set At<br>6353       |
| Perforations:<br>From 6106 To 6217                                                                                                   |            | Well No.<br>230E                           |                      |
| Thq. Size<br>2.375                                                                                                                   | Wt.<br>4.7 | d<br>1.995                                 | Set At<br>6122       |
| Perforations:<br>From open To ended                                                                                                  |            | Unit Sec. Twp. Rge.<br>0 23 28 12          |                      |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                                    |            | Packer Set At<br>None                      |                      |
| Producing Thru<br>tubing                                                                                                             |            | County<br>San Juan                         |                      |
| Reservoir Temp. °F<br>#                                                                                                              |            | State<br>New Mexico                        |                      |
| Mean Annual Temp. °F                                                                                                                 |            | Baro. Press. - P <sub>a</sub>              |                      |
| L                                                                                                                                    | H          | Cg                                         | % CO <sub>2</sub>    |
| % N <sub>2</sub>                                                                                                                     |            | % H <sub>2</sub> S                         |                      |
| Prover                                                                                                                               |            | Meter Run                                  |                      |
| Taps                                                                                                                                 |            |                                            |                      |

| FLOW DATA |                        |   |                 |                    |             |             | TUBING DATA        |             | CASING DATA        |             | Duration<br>of<br>Flow |
|-----------|------------------------|---|-----------------|--------------------|-------------|-------------|--------------------|-------------|--------------------|-------------|------------------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>hw | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F |                        |
| SI        | 16 Days                |   |                 |                    |             |             | 437                |             | 625                |             |                        |
| 1.        | 2.875                  |   | 750             |                    |             |             | 15                 |             | 312                |             | 3 hrs                  |
| 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, Mc/d |
|-----|--------------------------|------------------|----------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------|
| 1   | 12.365                   |                  | 27                         | 1.000                                  | .9258                               | 1.004                                         | 310                     |
| 2.  |                          |                  |                            |                                        |                                     |                                               |                         |
| 3.  |                          |                  |                            |                                        |                                     |                                               |                         |
| 4.  |                          |                  |                            |                                        |                                     |                                               |                         |
| 5.  |                          |                  |                            |                                        |                                     |                                               |                         |

| NO. | P <sub>t</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 |
| 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> 637 | P <sub>c</sub> <sup>2</sup> 405769 |                |                             |                                                           | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3578$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2579$ |
|--------------------|------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| NO.                | P <sub>t</sub> <sup>2</sup>        | 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> |                                            |                                                             |
| 1                  |                                    | 327            | 106929                      | 298840                                                    |                                            |                                                             |
| 2                  |                                    |                |                             |                                                           |                                            |                                                             |
| 3                  |                                    |                |                             |                                                           |                                            |                                                             |
| 4                  |                                    |                |                             |                                                           |                                            |                                                             |
| 5                  |                                    |                |                             |                                                           |                                            |                                                             |

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 390$$

Absolute Open Flow 390 Mc/d @ 15.025 Angle of Slope 75 Slope, n = 75

Remarks: flared, med oil, H2O

|                      |                               |                                |                  |
|----------------------|-------------------------------|--------------------------------|------------------|
| Approved By Division | Conducted By<br>J. J. Barnett | Calculated By<br>J. J. Barnett | Checked By<br>JB |
|----------------------|-------------------------------|--------------------------------|------------------|