

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

**RECEIVED**  
MAR 27 1984  
OIL CON. DIV.  
DIST. 3

|                                                                                                                                      |                     |                                                   |                    |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------|--------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |                     | Test Date<br>3-2-84                               |                    |
| Company<br>Amoco Production Company                                                                                                  |                     | Gas Company of New Mexico                         |                    |
| Pool<br>Basin                                                                                                                        |                     | Formation<br>Dakota                               |                    |
| Completion Date<br>2-4-84                                                                                                            | Total Depth<br>7339 | Plug Back TD<br>7326                              | Elevation<br>6529  |
| Farm or Lease Name<br>Jicarilla Contract 147                                                                                         |                     | Well No.<br>5Y                                    |                    |
| Coq. Size<br>5.500                                                                                                                   | Wt.<br>15.5         | d<br>4.950                                        | Set At<br>7339     |
| Perforations<br>From 7242 To 7295                                                                                                    |                     | Well No.<br>5Y                                    |                    |
| Thg. Size<br>2.375                                                                                                                   | Wt.<br>4.7          | d<br>1.995                                        | Set At<br>7295     |
| Perforations<br>From open To ended                                                                                                   |                     | Unit    Sec.    Twp.    Rye.<br>G    7    25    5 |                    |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                                    |                     | Packer Set At<br>None                             |                    |
| Producing Thru<br>Tubing                                                                                                             |                     | County<br>Rio Arriba                              |                    |
| Reservoir Temp. °F<br>#                                                                                                              |                     | State<br>New Mexico                               |                    |
| Mean Annual Temp. °F                                                                                                                 |                     | Baro. Press. - P <sub>a</sub>                     |                    |
| L                                                                                                                                    | H                   | G <sub>g</sub>                                    | % 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. |                  |
| SI        | 14 days          |      |              |                 |                      |          | 2200            |             | 2210            |                  |
| 1.        | 2.875            | .750 |              |                 |                      |          | 120             |             | 565             |                  |
| 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>cv</sub> | Rate of Flow O. Mcfd |
| 1                         | 12.365                |                  | 132                     | 1.000                 | .9258                         | 1.015                                   | 1534                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z |
|-----|----------------|----------|----------------|---|
| 1   |                |          |                |   |
| 2.  |                |          |                |   |
| 3.  |                |          |                |   |
| 4.  |                |          |                |   |
| 5.  |                |          |                |   |

  

|                                                  |  |  |  |  |
|--------------------------------------------------|--|--|--|--|
| Gas Liquid Hydrocarbon Ratio _____ Mcf/mbbl.     |  |  |  |  |
| A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |  |  |  |  |
| Specific Gravity Separator Gas _____ XXXXXXXXXX  |  |  |  |  |
| Specific Gravity Flowing Fluid _____ XXXXX       |  |  |  |  |
| Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |  |  |  |  |
| Critical Temperature _____ R _____ R             |  |  |  |  |

  

|                     |                                     |                                            |                                                             |
|---------------------|-------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 2222 | P <sub>c</sub> <sup>2</sup> 4937284 | (1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.0723$ | (2) $\left[ \frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0538$ |
| NO1                 | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub> <sup>2</sup>                | P <sub>t</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>   |
| 1                   |                                     | 577                                        | 332929                                                      |
| 2                   |                                     |                                            |                                                             |
| 3                   |                                     |                                            |                                                             |
| 4                   |                                     |                                            |                                                             |
| 5                   |                                     |                                            |                                                             |

  

|                         |  |               |                  |              |
|-------------------------|--|---------------|------------------|--------------|
| Absolute Open Flow 1616 |  | Mold # 15.025 | Angle of Slope # | Slope, n .75 |
|-------------------------|--|---------------|------------------|--------------|

  

Remarks: Med. spray H<sub>2</sub>O, Lite oil, was not flared.

  

|                      |                             |                              |                         |
|----------------------|-----------------------------|------------------------------|-------------------------|
| Approved By Division | Conducted By: I. I. Barnett | Calculated By: I. I. Barnett | Checked By: [Signature] |
|----------------------|-----------------------------|------------------------------|-------------------------|