

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

Form C-122  
Revised 9-1-65

RECEIVED  
19 1985

|                                                                                                                           |             |                         |                   |                                    |                       |                                     |                    |                                     |
|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------|------------------------------------|-----------------------|-------------------------------------|--------------------|-------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                         |                   |                                    | Test Date<br>7-16-85  |                                     | 19 1985            |                                     |
| Company<br>El Paso Natural Gas                                                                                            |             |                         |                   | Connection                         |                       |                                     |                    | IN. DIV.<br>ST. 3                   |
| Pool<br>Basin                                                                                                             |             |                         |                   | Formation<br>Dakota                |                       |                                     |                    |                                     |
| Completion Date<br>7-16-85                                                                                                |             | Total Depth<br>6440     |                   | Plug Back TD<br>6407               |                       | Elevation<br>6484                   |                    | Form or Lease Name<br>Huerfano Unit |
| Csg. Size<br>4.500                                                                                                        | Wt.<br>10.5 | d<br>4.052              | Set At<br>6441    | Perforations:<br>From 6256 To 6340 |                       | Well No.<br>#262E                   |                    |                                     |
| Teg. Size<br>2.375                                                                                                        | Wt.<br>4.7  | d<br>1.995              | Set At<br>6333    | Perforations:<br>From To           |                       | Unit Sec. Twp. Rge.<br>J 31 26 10   |                    |                                     |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |             |                         |                   |                                    | Packer Set At<br>None |                                     | County<br>San Juan |                                     |
| Producing Thru<br>Tbg.                                                                                                    |             | Reservoir Temp. °F<br>a |                   | Mean Annual Temp. °F               |                       | Baro. Press. - P <sub>a</sub><br>12 |                    | State<br>New Mexico                 |
| L                                                                                                                         | H           | Gg<br>.700              | % 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 | Duration of Flow |
| 1.        |                  |   | .750         | 218             |                      | 88       | 218             |          | 1598             |          | 7 Days           |
| 2.        |                  |   |              |                 |                      |          |                 |          | 575              |          | 3 Hrs.           |
| 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                |                  | 230                     | .9741                 | .9258             | 1.024                       | 2626                 |
| 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 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>r</sub> 1612 | P <sub>r</sub> <sup>2</sup> 2598544                                                                                               |
| NO. 1               | P <sub>r</sub> - P <sub>w</sub> 587    P <sub>w</sub> 344569    P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2253975 |
| 2                   |                                                                                                                                   |
| 3                   |                                                                                                                                   |
| 4                   |                                                                                                                                   |
| 5                   |                                                                                                                                   |

  

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2598544}{2253975}$

ACF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2922$

(2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1126$

  

|                                       |                  |              |
|---------------------------------------|------------------|--------------|
| Absolute Open Flow 2922 Mcfd @ 15.025 | Angle of Slope → | Slope, n, 75 |
|---------------------------------------|------------------|--------------|

  

Remarks: Produced light mist liquids throughout test.  
Gas vented during test = 424 MCF.

  

|                         |                              |                        |                 |
|-------------------------|------------------------------|------------------------|-----------------|
| Approved By Commission: | Conducted By: Joe Gillentine | Calculated By: Ed Mabe | Checked By: kld |
|-------------------------|------------------------------|------------------------|-----------------|