

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form O-122  
Revised 10-1-78

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

|                                                                                                                           |             |                         |                   |                                    |                    |                                     |           |                                     |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------|------------------------------------|--------------------|-------------------------------------|-----------|-------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                         |                   |                                    |                    | Test Date<br>5-7-86                 |           |                                     |  |
| Company<br>El Paso Natural Gas                                                                                            |             |                         |                   | Connection                         |                    |                                     |           |                                     |  |
| Pool<br>Basin                                                                                                             |             |                         |                   | Formation<br>Dakota                |                    |                                     |           | Unit                                |  |
| Completion Date<br>5-7-86                                                                                                 |             | Total Depth<br>6872     |                   | Plug Back TD<br>6855               |                    | Elevation                           |           | Farm or Lease Name<br>Huerfano Unit |  |
| Eq. Size<br>4.500                                                                                                         | Wt.<br>10.5 | d<br>4.052              | Set At<br>6872    | Perforations:<br>From 6631 To 6755 |                    |                                     |           | Well No.<br>#168E                   |  |
| Tbg. Size<br>2.375                                                                                                        | Wt.<br>4.7  | d<br>1.995              | Set At<br>6755    | Perforations:<br>From To           |                    |                                     |           | Unit Sec. Twp. Rge.<br>25 26 10     |  |
| Type Well - Single - Brdenhead - 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>8 |                   | Mean Annual Temp. °F               |                    | Baro. Press. - P <sub>g</sub><br>12 |           | State<br>New Mexico                 |  |
| 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<br>of<br>Flow |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|-------------|------------------------|
| 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. | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F |                        |
| SI        |                        |   |                 |                    |                         |             | 775                |             | 1312               |             | 7 Days                 |
| 1.        |                        |   |                 |                    |                         |             |                    |             |                    |             |                        |
| 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                         |                          |                  |                            |                                        |                                     |                                               |                         |
| 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 _____ XXXXXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXX       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R             |

  

| NO. | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|
| 1   |                             |                             |                             |                                                           |
| 2   |                             |                             |                             |                                                           |
| 3   |                             |                             |                             |                                                           |
| 4   |                             |                             |                             |                                                           |
| 5   |                             |                             |                             |                                                           |

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

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

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

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|                                        |  |                        |  |                |
|----------------------------------------|--|------------------------|--|----------------|
| Absolute Open Flow _____ Mcfd @ 15.025 |  | Angle of Slope @ _____ |  | Slope, n _____ |
| Remarks: _____                         |  |                        |  |                |

  

|                      |                                |                                    |                    |
|----------------------|--------------------------------|------------------------------------|--------------------|
| Approved By Division | Conducted By:<br>B. Huntington | Calculated By:<br>Scott H. Lindsay | Checked By:<br>kld |
|----------------------|--------------------------------|------------------------------------|--------------------|