

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

Form C-122  
Revised 9-1-65

**RECEIVED**

|                                                                                                                           |             |                         |                   |                                    |                    |                                     |                |
|---------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------|------------------------------------|--------------------|-------------------------------------|----------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                         |                   | Test Date<br>8-7-85                |                    | AUG 14 1985                         |                |
| Company<br>El Paso Natural Gas                                                                                            |             |                         |                   | Connection                         |                    | OIL CON. DIV                        |                |
| Pool<br>Basin                                                                                                             |             |                         |                   | Formation<br>Dakota                |                    | Unit<br>DIST. ?                     |                |
| Completion Date<br>8-7-85                                                                                                 |             | Total Depth<br>6692     |                   | Plug Back TD<br>6676               |                    | Elevation<br>6455 GR                |                |
| Farm or Lease Name<br>Huerfano Unit                                                                                       |             |                         |                   | Well No.                           |                    |                                     |                |
| Csg. Size<br>4.500                                                                                                        | Wt.<br>10.5 | d<br>4.052              | Set At<br>6692    | Perforations:<br>From 6422 To 6618 |                    | #161E                               |                |
| Tqg. Size<br>2.375                                                                                                        | Wt.<br>4.7  | d<br>1.995              | Set At<br>6619    | Perforations:<br>From To           |                    | Unit Sec. Twp. Rge.<br>H 18 26 09   |                |
| 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 |
| SI        |                  |   |              |                 |                      |             | 623             |             | 1128            |                  | 7 Days   |
| 1.        |                  |   | .750         | 46              |                      | 76          | 46              |             | 298             |                  | 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, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.365                |                  | 58                      | 9850                  | 9258              | 1.004                                   | 657                  |
| 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> 1140 | P <sub>r</sub> <sup>2</sup> 1299600 |                |
| NO.                 | P <sub>r</sub>                      | P <sub>w</sub> |
| 1                   | 310                                 | 96100          |
| 2                   |                                     |                |
| 3                   |                                     |                |
| 4                   |                                     |                |
| 5                   |                                     |                |

  

|                                                              |                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------|
| (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1299600}{1203500}$  | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0593$ |
| AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 696$ |                                                             |

  

|                                      |                         |              |
|--------------------------------------|-------------------------|--------------|
| Absolute Open Flow 696 Mcfd @ 15.025 | Angle of Slope $\theta$ | Slope, n .75 |
|--------------------------------------|-------------------------|--------------|

  

Remarks: Produced heavy to med. spary liquids throughgout test.  
Gas vented during test = 99 MCF.

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