

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 24, 1972

|                                                |                      |                                     |                      |
|------------------------------------------------|----------------------|-------------------------------------|----------------------|
| Operator<br>El Paso Natural Gas Company        |                      | Lease<br>San Juan 28-6 Unit No. 168 |                      |
| Location<br>1170/S, 1840/W, Sec. 14 - 27N - 6W |                      | County<br>Rio Arriba                | State<br>New Mexico  |
| Formation<br>Dakota                            |                      | Pool<br>Basin                       |                      |
| Casing: Diameter<br>4.500                      | Set At: Feet<br>7798 | Tubing: Diameter<br>1.900           | Set At: Feet<br>7717 |
| Pay Zone: From<br>7534                         | To<br>7746           | Total Depth:<br>7798                | Shut In<br>7-14-72   |
| Stimulation Method<br>S.W.F.                   |                      | Flow Through Casing<br>XXX          | Flow Through Tubing  |

|                                        |                     |                             |                                              |                     |                        |
|----------------------------------------|---------------------|-----------------------------|----------------------------------------------|---------------------|------------------------|
| Choke Size, Inches<br>0.750            |                     | Choke Constant: C<br>12.365 |                                              |                     |                        |
| Shut-In Pressure, Casing, PSIG<br>2670 | + 12 = PSIA<br>2682 | Days Shut-In<br>10          | Shut-In Pressure, Tubing PSIG<br>2268        | + 12 = PSIA<br>2280 |                        |
| Flowing Pressure: P PSIG<br>294        | + 12 = PSIA<br>306  |                             | Working Pressure: P <sub>w</sub> PSIG<br>547 | + 12 = PSIA<br>559  |                        |
| Temperature: T = 66 °F                 |                     | n =                         | F <sub>pv</sub> (From Tables)<br>1.025       | Gravity<br>.620     | F <sub>g</sub> = .9837 |
| F <sub>t</sub> = .9943                 |                     | .75                         |                                              |                     |                        |

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(306)(.9943)(.9837)(1.025) = \underline{3793} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

NOTE: Well blew light mist of distillate throughout the test.

$$Aof = \left( \frac{7193124}{6880643} \right)^n = (3793)(1.0454)^{.75} = (3793)(1.0339)$$

$$Aof = \underline{3922} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY \_\_\_\_\_



*J. A. Jones*  
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