

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 2, 1971

|                                                    |                      |                                     |                      |
|----------------------------------------------------|----------------------|-------------------------------------|----------------------|
| Operator<br>El Paso Natural Gas Company            |                      | Lease<br>San Juan 28-6 Unit No. 155 |                      |
| Location<br>1550'S, 1190'W, Sec. 28, T-28-N, R-6-W |                      | County<br>Rio Arriba                | State<br>New Mexico  |
| Formation<br>Dakota                                |                      | Pool<br>Basin                       |                      |
| Casing: Diameter<br>4.500                          | Set At: Feet<br>7911 | Tubing: Diameter<br>1.990           | Set At: Feet<br>7823 |
| Pay Zone: From<br>7622                             | To<br>7826           | Total Depth:<br>7911                | Shut In<br>7-24-71   |
| Stimulation Method<br>Sand Water Frac              |                      | 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>2555 | + 12 = PSIA<br>2567 | Days Shut-In<br>9           | Shut-In Pressure, Tubing PSIG<br>2490        | + 12 = PSIA<br>2502 |                        |
| Flowing Pressure: P PSIG<br>428        | + 12 = PSIA<br>440  |                             | Working Pressure: P <sub>w</sub> PSIG<br>647 | + 12 = PSIA<br>659  |                        |
| Temperature:<br>T = 82 °F              | n =<br>0.75         |                             | F <sub>pv</sub> (From Tables)<br>1.033       | Gravity<br>0.620    | F <sub>g</sub> = .9837 |

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(440)(.9795)(.9837)(1.033) = \underline{5415} \text{ MCF/D}$$

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

Note: Well blew heavy spray of water and distillate throughout test.

$$A_{of} = \left( \frac{6589489}{6155208} \right)^n = (5415)(1.0705)^{.75} = (5415)(1.0524)$$

$$A_{of} = \underline{5699} \text{ MCF/D}$$

TESTED BY Dannie R. Roberts

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

*L. E. Mabe, Jr.*  
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