

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 7-22-71

|                                              |                      |                                     |                      |
|----------------------------------------------|----------------------|-------------------------------------|----------------------|
| Operator<br>El Paso Natural Gas Company      |                      | Lease<br>San Juan 28-6 Unit No. 158 |                      |
| Location<br>1460' N, 1840' E, S11, T27N, R6W |                      | County<br>Rio Arriba                | State<br>New Mexico  |
| Formation<br>Dakota                          |                      | Pool<br>Basin                       |                      |
| Casing: Diameter<br>4.500                    | Set At: Feet<br>7862 | Tubing: Diameter<br>1.990           | Set At: Feet<br>7819 |
| Pay Zone: From<br>7640                       | To<br>7830           | Total Depth:<br>7862                | Shut In<br>7-15-71   |
| Stimulation Method<br>S W F                  |                      | Flow Through Casing<br>XXXX         | Flow Through Tubing  |

|                                        |                        |                             |                                              |                     |                        |
|----------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------------|------------------------|
| Choke Size, Inches<br>.750             |                        | Choke Constant: C<br>12.365 |                                              |                     |                        |
| Shut-In Pressure, Casing, PSIG<br>2561 | + 12 = PSIA<br>2573    | Days Shut-In<br>7           | Shut-In Pressure, Tubing PSIG<br>2509        | + 12 = PSIA<br>2521 |                        |
| Flowing Pressure: P PSIG<br>239        | + 12 = PSIA<br>251     |                             | Working Pressure: P <sub>w</sub> PSIG<br>432 | + 12 = PSIA<br>444  |                        |
| Temperature:<br>T = 71 °F              | F <sub>t</sub> = .9896 | n =<br>.75                  | F <sub>pv</sub> (From Tables)<br>1.020       | Gravity<br>.620     | F <sub>g</sub> = .9837 |

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

$$Q = 12.365 \times 251 \times .9896 \times .9837 \times 1.020 = 3082 \text{ MCF/D}$$

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

Note: Well blew light fog of water and distillate throughout test.

$$A_{of} = \left( \frac{6620329}{6423193} \right)^n = 3082(1.0306)^{.75} = 3082(1.0229)$$

$$A_{of} = 3153 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY

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