

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 9, 1967

|                                         |                      |                               |                     |
|-----------------------------------------|----------------------|-------------------------------|---------------------|
| Operator<br>El Paso Natural Gas Company |                      | Lease<br>Jicarilla 92 No. 3   |                     |
| Location<br>T-27-X, R-3-W               |                      | County<br>Rio Arriba          | State<br>New Mexico |
| Formation<br>Hatchers Cliffs            |                      | Pool<br>Tapacita              |                     |
| Casing: Diameter<br>8.75                | Set At: Feet<br>4155 | Tubing: Diameter<br>no tubing | Set At: Feet        |
| Pay Zone: From<br>4007                  | To<br>4102           | Total Depth:<br>4155          | Shut In<br>7-23-67  |
| Stimulation Method<br>Crack Layer - rnc |                      | Flow Through Casing<br>X      | Flow Through Tubing |

|                                        |                     |                             |                                                |                       |                        |
|----------------------------------------|---------------------|-----------------------------|------------------------------------------------|-----------------------|------------------------|
| Choke Size, Inches<br>.750             |                     | Choke Constant: C<br>12.365 |                                                | Tubingless Completion |                        |
| Shut-In Pressure, Casing, PSIG<br>1125 | + 12 = PSIA<br>1125 | Days Shut-In<br>17          | Shut-In Pressure, Tubing PSIG<br>No tubing     | + 12 = PSIA           |                        |
| Flowing Pressure: P PSIG<br>161        | + 12 = PSIA<br>173  |                             | Working Pressure: P <sub>w</sub> PSIG<br>Calc. | + 12 = PSIA<br>231    |                        |
| Temperature:<br>T = 57 °F              | n =<br>.85          |                             | F <sub>pv</sub> (From Tables)<br>1.015         | Gravity<br>630        | F <sub>g</sub> = .9759 |

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

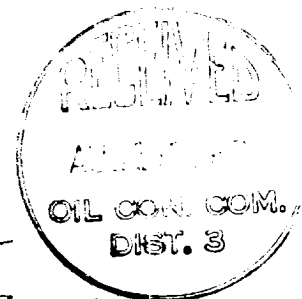
$$Q = (12.365)(173)(1.0029)(.9759)(1.015) = 2125 \text{ MCF/D}$$

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

$$Aof = \left( \frac{1265625}{1212264} \right)^n = (2125)(1.0440)^{.85} = (2125)(1.0373)$$

NOTE: The well produced dry gas throughout the test period.

$$Aof = 2204 \text{ MCF/D}$$

TESTED BY Dannia R. RobertsWITNESSED BY Tom D. Grant

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