

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-30-70

|                                            |                      |                                          |                           |
|--------------------------------------------|----------------------|------------------------------------------|---------------------------|
| Operator<br>El Paso Natural Gas Company    |                      | Lease<br>San Juan 30-6 Unit No. 72 (OWO) |                           |
| Location<br>990 N, 1650 E, S 22, T30N, R7W |                      | County<br>Rio Arriba                     | State<br>New Mexico       |
| Formation<br>Mesa Verde                    |                      | Pool<br>Blanco                           |                           |
| Casing: Diameter<br>4.500                  | Set At: Feet<br>5820 | Tubing: Diameter<br>2.375                | Set At: Feet<br>5750      |
| Pay Zone: From<br>5018                     | To<br>5779           | Total Depth:<br>5820                     | Shut In<br>9-21-70        |
| Stimulation Method<br>S W F                |                      | Flow Through Casing                      | Flow Through Tubing<br>XX |

|                                       |                    |                             |                                      |                    |            |
|---------------------------------------|--------------------|-----------------------------|--------------------------------------|--------------------|------------|
| Choke Size, Inches<br>.750            |                    | Choke Constant: C<br>12.365 |                                      |                    |            |
| Shut-In Pressure, Casing, PSIG<br>709 | + 12 = PSIA<br>721 | Days Shut-In<br>9           | Shut-In Pressure, Tubing PSIG<br>712 | + 12 = PSIA<br>724 |            |
| Flowing Pressure: P PSIG<br>183       | + 12 = PSIA<br>195 |                             | Working Pressure: Pw PSIG<br>510     | + 12 = PSIA<br>522 |            |
| Temperature:<br>T = 68°F              | n =<br>.75         |                             | Fpv (From Tables)<br>1.018           | Gravity<br>.664    | Fg = .9506 |

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

$$Q = 12.365 \times 195 \times .9924 \times .9506 \times 1.018 = 2316 \text{ MCF/D}$$

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

Note: the well produced a very light fog of water and dist. throughout the test.

$$Aof = \left( \frac{524176}{251692} \right)^n = (2316)(2.0826)^{.75} = (2316)(1.7336)$$

$$Aof = 4015 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



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