

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-24-70

|   |                      |                                      |                           |
|---|----------------------|--------------------------------------|---------------------------|
| Operator<br>El Paso Natural Gas Company     |                      | Lease<br>San Juan 30-6 Unit No. 49-Y |                           |
| Location<br>1180 N, 1615 E, S 27, T30N, R6W |                      | County<br>Rio Arriba                 | State<br>New Mexico       |
| Formation<br>Mesa Verde                     |                      | Pool<br>Blanco                       |                           |
| Casing: Diameter<br>4.500                   | Set At: Feet<br>5930 | Tubing: Diameter<br>2.375            | Set At: Feet<br>5869      |
| Pay Zone: From<br>5302                      | To<br>5892           | Total Depth:<br>5930                 | Shut In<br>8-16-70        |
| 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>835 | + 12 = PSIA<br>847     | Days Shut-In<br>8           | Shut-In Pressure, Tubing PSIG<br>852         | + 12 = PSIA<br>864 |                        |
| Flowing Pressure: P PSIG<br>213       | + 12 = PSIA<br>225     |                             | Working Pressure: P <sub>w</sub> PSIG<br>654 | + 12 = PSIA<br>666 |                        |
| Temperature:<br>T = 72 °F             | F <sub>t</sub> = .9887 | n =<br>.75                  | F <sub>pv</sub> (From Tables)<br>1.022       | Gravity<br>.660    | F <sub>g</sub> = .9535 |

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

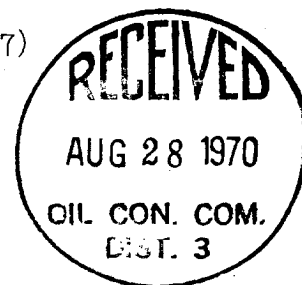
$$Q = 12.365 \times 225 \times .9887 \times 9535 \times 1.022 = 2680 \text{ MCF/D}$$

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

Note: Well produced heavy liquid first 15 mins. of flow and light fog thereafter. Water & Dist.

$$Aof = \left( \frac{746496}{302940} \right)^n = 2680(2.4641)^{.75} = 2680(1.9667)$$

$$Aof = 5271 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

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