

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

CORRECTED COPY

DATE December 30, 1971

|   |                      |                                |                     |
|---|----------------------|--------------------------------|---------------------|
| Operator<br>El Paso Natural Gas Company     |                      | Lease<br>Ballard No. 10 (OWWO) |                     |
| Location<br>1850/S 790/W Sec. 15--T26N--R9W |                      | County<br>San Juan             | State<br>New Mexico |
| Formation<br>Pictured Cliffs                |                      | Pool<br>Ballard                |                     |
| Casing: Diameter<br>2.875                   | Set At: Feet<br>2059 | Tubing: Diameter<br>No Tubing  | Set At: Feet        |
| Pay Zone: From<br>1980                      | To<br>2034           | Total Depth:<br>2059           | Shut In<br>12-18-71 |
| Stimulation Method<br>SW                    |                      | Flow Through Casing<br>XX      | Flow Through Tubing |

|                                       |                    |  |  |                       |  |
|---------------------------------------|--------------------|--|--|-----------------------|--|
| Choke Size, inches<br>.750            |                    | Choke Constant: C<br>12-365                    |  | Tubingless Completion |  |
| Shut-In Pressure, Casing, PSIG<br>245 | + 12 = PSIA<br>257 | Days Shut-In<br>12                             | Shut-In Pressure, Tubing PSIG<br>No Tubing | + 12 = PSIA           |  |
| Flowing Pressure: P PSIG<br>50        | + 12 = PSIA<br>62  | Working Pressure: P <sub>w</sub> PSIG<br>Calc. | + 12 = PSIA<br>73                          |                       |  |
| Temperature:<br>T = 48 °F             | n =<br>.85         | Fpv (From Tables)<br>1.010                     | Gravity<br>.662                            | Fg = .9513            |  |

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

$$Q = (12.365)(62)(1.0117)(0.9513)(1.010) = 745 \text{ MCF/D}$$

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

Note: The well produced a very light mist of water throughout the test.

$$Aof = \left( \frac{66049}{60720} \right)^n = (745)(1.0878)^{.85} (745)(1.0741)$$

$$Aof = 800 \text{ MCF/D}$$

TESTED BY Jess Goodwin

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

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