

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 6, 1972

|                                                 |                      |                               |                     |
|-------------------------------------------------|----------------------|-------------------------------|---------------------|
| Operator<br>El Paso Natural Gas Company         |                      | Lease<br>Case No. 13          |                     |
| Location<br>1120/A, 300/E, Sec. 19 T 31N, R 11W |                      | County<br>San Juan            | State<br>New Mexico |
| Formation<br>Pictured Cliffs                    |                      | Pool<br>Aztec                 |                     |
| Casing: Diameter<br>4.015                       | Set At: Feet<br>2777 | Tubing: Diameter<br>No Tubing | Set At: Feet        |
| Pay Zone: From<br>2620                          | To<br>2640           | Total Depth:<br>2777          | Shut In<br>7-27-72  |
| Stimulation Method<br>MP                        |                      | Flow Through Casing<br>XXX    | Flow Through Tubing |

|                                       |                    |                             |                                            |                       |           |
|---------------------------------------|--------------------|-----------------------------|--------------------------------------------|-----------------------|-----------|
| Choke Size, Inches<br>.750            |                    | Choke Constant: C<br>12.365 |                                            | Tubingless Completion |           |
| Shut-In Pressure, Casing, PSIG<br>578 | + 12 = PSIA<br>690 | Days Shut-In<br>12          | Shut-In Pressure, Tubing PSIG<br>No Tubing | + 12 = PSIA           |           |
| Flowing Pressure: P PSIG<br>27        | + 12 = PSIA<br>39  |                             | Working Pressure: Pw PSIG<br>Calculated    | + 12 = PSIA<br>51     |           |
| Temperature:<br>T = 60 °F             | Ft = 1.000         | n =<br>.85                  | Fpv (From Tables)<br>1.004                 | Gravity<br>.675       | Fg = .427 |

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

$$Q = (12.365)(39)(1.000)(.9427)(1.004) = 456 \text{ MCF/D}$$

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

NOTE: Well produced a medium spray of water throughout the test.

$$Aof = \left( \frac{476100}{473796} \right)^n (456)(1.0049)^{.85} = (456)(1.0041)$$

$$Aof = 458 \text{ MCF/D}$$

TESTED BY J. Jones & McAnally

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

*J. Jones*  
J. A. Jones

