

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 25, 1966

|                                                  |                      |                                    |                      |
|--------------------------------------------------|----------------------|------------------------------------|----------------------|
| Operator<br>El Paso Natural Gas Company          |                      | Lease<br>Hancock No. 3 (IC) (OMWO) |                      |
| Location<br>890'S, 990'W, Sec. 22, T-28-N, R-9-W |                      | County<br>San Juan                 | State<br>New Mexico  |
| Formation<br>Pictured Cliffs                     |                      | Pool<br>Aztec                      |                      |
| Casing: Diameter<br>7.625                        | Set At: Feet<br>3453 | Tubing: Diameter<br>1.660          | Set At: Feet<br>3298 |
| Pay Zone: From<br>3258                           | To<br>3290           | Total Depth:<br>5776               | Shut In<br>7-24-66   |
| Stimulation Method<br>Sand Water Frac.           |                      | Flow Through Casing<br>X           | Flow Through Tubing  |

|                                            |                    |                             |                                                |                                    |                        |
|--------------------------------------------|--------------------|-----------------------------|------------------------------------------------|------------------------------------|------------------------|
| Choke Size, Inches<br>.750                 |                    | Choke Constant: C<br>12.365 |                                                | Faker Model "N" Iacker set at 3350 |                        |
| Shut-In Pressure, Casing, PSIG<br>418 (PC) | + 12 = PSIA<br>430 | Days Shut-In<br>32          | Shut-In Pressure, Tubing PSIG<br>0 (PC)        | + 12 = PSIA<br>12                  |                        |
| Flowing Pressure: P PSIG<br>110            | + 12 = PSIA<br>122 |                             | Working Pressure: P <sub>w</sub> PSIG<br>Calc. | + 12 = PSIA<br>122                 |                        |
| Temperature:<br>T = 60 °F                  | n =<br>.85         |                             | F <sub>pv</sub> (From Tables)<br>1.011         | Gravity<br>.655                    | F <sub>g</sub> = .9571 |

ISIPT (MV) = 659 psig

FSIPT (MV) = 659 psig

CHOKE VOLUME = Q = C × P<sub>i</sub> × F<sub>i</sub> × F<sub>g</sub> × F<sub>pv</sub>

$$Q = (12.365)(122)(1.0000)(.9571)(1.011) = \underline{1460} \text{ MCF/D}$$

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

$$Aof = \left( \frac{184900}{170016} \right)^n = (1460)(1.0875)^{.85} = (1460)(1.0739)$$

NOTE: Well produced dry gas entire test.

$$Aof = \underline{1553} \text{ MCF/D}$$

TESTED BY Jess B. GoodwinCALCULATED BY Hermon E. McAnallyCHECKED BY Tom B. Grant

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