

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DE-TEST

DATE May 9, 1966

|                                                     |                      |                                     |                          |
|-----------------------------------------------------|----------------------|-------------------------------------|--------------------------|
| Operator<br>El Paso Natural Gas Company             |                      | Lease<br>San Juan 28-6 Unit No. 120 |                          |
| Location<br>T-28-N, R-6-W, Section 9, T-28-N, R-6-W |                      | County<br>Rio Arriba                | State<br>New Mexico      |
| Formation<br>Dakota                                 |                      | Pool<br>Basin                       |                          |
| Casing: Diameter<br>4.500                           | Set At: Feet<br>7829 | Tubing: Diameter<br>2.375           | Set At: Feet<br>7748     |
| Pay Zone: From<br>7634                              | To<br>7784           | Total Depth:<br>7829                | Shut In<br>4-20-66       |
| Stimulation Method<br>Sand Water Free               |                      | Flow Through Casing                 | Flow Through Tubing<br>X |

|                                        |                             |                    |                                       |                            |
|----------------------------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|
| Choke Size, Inches<br>.750             | Choke Constant: C<br>12.365 |                    | Company Distribution Only             |                            |
| Shut-In Pressure, Casing, PSIG<br>2700 | + 12 = PSIA<br>2712         | Days Shut-In<br>19 | Shut-in Pressure, Tubing PSIG<br>2705 | + 12 = PSIA<br>2717        |
| Flowing Pressure: P PSIG<br>267        | + 12 = PSIA<br>279          |                    | Working Pressure: Pw PSIG<br>1056     | + 12 = PSIA<br>1050        |
| Temperature:<br>T = 66 °F              | Ft = .9924                  | n = .75            | Fpv (From Tables)<br>1.028            | Gravity<br>.670 Fg = .9463 |

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

$$Q = (12.365) (279) (.9924) (.9463) (1.028) = 3,330 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^{.75}$$

$$Aof = \left( \frac{7,382,089}{6,279,589} \right)^{.75} = (3,330) (1.1755)^{.75} = (3,330) (1.1269)$$

NOTE: Well produced a light spray of Distillate and water throughout the Test.

$$Aof = 3,759 \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)

WITNESSED BY H. L. Kendrick (EPNG)

RECEIVED  
MAY 12 1966  
H. L. Kendrick  
H. L. Kendrick