

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE November 14, 1962

|                                                |                             |                                            |                                 |
|------------------------------------------------|-----------------------------|--------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>San Juan Unit 28-7 No. 128</b> |                                 |
| Location<br><b>990'N, 890'E, Sec. 12-27-7</b>  |                             | County<br><b>Rio Arriba</b>                | State<br><b>New Mexico</b>      |
| Formation<br><b>Dakota</b>                     |                             | Pool<br><b>Basin</b>                       |                                 |
| Casing Diameter<br><b>4.500</b>                | Set At: Feet<br><b>7681</b> | Tubing Diameter<br><b>2.375</b>            | Set At: Feet<br><b>7540</b>     |
| Pay Zone From<br><b>7436</b>                   | To<br><b>7596</b>           | Total Depth<br><b>7692 C/O 7633</b>        | Shut In<br><b>11-6-62</b>       |
| Simulation Method<br><b>Sand Water Frac.</b>   |                             | Flow Through Casing                        | Flow Through Tubing<br><b>X</b> |

|                                              |                                    |                     |                                              |
|----------------------------------------------|------------------------------------|---------------------|----------------------------------------------|
| Choke Size, Inches<br><b>.75</b>             | Choke Constant: C<br><b>12.365</b> |                     |                                              |
| Static Pressure, Casing, PSIG<br><b>2583</b> | 12                                 | PSIA<br><b>2595</b> | Days Shut In<br><b>8</b>                     |
| Flowing Pressure: P, PSIG<br><b>299</b>      | 12                                 | PSIA<br><b>311</b>  | Static Pressure, Tubing, PSIG<br><b>2619</b> |
| Temperatures<br><b>70</b>                    | F                                  | F                   | Working Pressure: Pw, PSIG<br><b>1110</b>    |
|                                              | F                                  | F                   | Flow From Tables:<br><b>1.026</b>            |
|                                              | F                                  | F                   | Gravity, $\gamma_g$<br><b>.9759</b>          |

$$Q = C \times P_1 \times P_2 \times P_3 \times P_4$$

$$Q = (12.365)(311)(.9905)(.9759)(1.026)$$

3814

MCF/D

$$Q = \left( \frac{P_1^2 - P_2^2}{P_3^2 - P_4^2} \right)^n$$

$$Aof = \left( \frac{6,922,161}{5,663,277} \right)^n$$

$$(3814)(1.2222)^{.75} = (3814)(1.1623)$$

NOTE: Blew a heavy spray of hydrocarbons and water.

Aof 4433

MCF/D

Prepared by R. F. Headrick

Witnessed by \_\_\_\_\_

Calculated by W. D. Danson

Checked by Tom B. Grant

