

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETIONDATE July 31, 1957

|                                                |                             |                                                   |                            |
|------------------------------------------------|-----------------------------|---------------------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>San Juan 27-5 #27</b>                 |                            |
| Location<br><b>990'S 890'W 26-27-5</b>         |                             | County<br><b>Rio Arriba</b>                       | State<br><b>New Mexico</b> |
| Formation<br><b>Pictured Cliffs</b>            |                             | Pool<br><b>Undesignated</b>                       |                            |
| Casing: Diameter<br><b>7-5/8</b>               | Set At: Feet<br><b>3495</b> | Tubing: Diameter<br><b>No Tubing</b>              | Set At: Feet               |
| Pay Zone: From<br><b>3296</b>                  | To<br><b>3329</b>           | Total Depth:<br><b>5700 c/o 5610 Packer @3570</b> |                            |
| Stimulation Method<br><b>Sand Water Frac</b>   |                             | Flow Through Casing<br><b>X</b>                   | Flow Through Tubing        |

|                                               |      |                                    |                           |                                              |                        |
|-----------------------------------------------|------|------------------------------------|---------------------------|----------------------------------------------|------------------------|
| Choke Size, Inches<br><b>.750</b>             |      | Choke Constant: C<br><b>12.365</b> |                           | 5-1/2 liner 3448 to 5704                     |                        |
| Shut-In Pressure, Casing,<br><b>1079 (PC)</b> | PSIG | - 12 = PSIA<br><b>1091</b>         | Days Shut-In<br><b>33</b> | Shut-In Pressure, Tubing<br><b>1146 (MV)</b> | PSIG                   |
| Flowing Pressure: P<br><b>946</b>             | PSIG | - 12 = PSIA<br><b>958</b>          |                           | Working Pressure: Pw<br><b>Calculated</b>    | PSIG                   |
| Temperature: T<br><b>74</b>                   | F    | n =<br><b>.85</b>                  |                           | Fpv (From Tables)<br><b>1.114</b>            | Gravity<br><b>.700</b> |

Ending Mesa Verde SIPT 1152 Psig .

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

$$Q = 12.365 \times 958 \times .9868 \times .9258 \times 1.114$$

12.056

MCF/D

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

$$Aof = \left( \frac{1,190,281}{266,760} \right)^n = 12.056 \times 4.4619^{.85} = 12.056 \times 3,653$$

$$Aof = 42,983 \text{ MCF/D}$$

TESTED BY K. C. McBrideWITNESSED BY Fred Cook (NMCC)

cc: E. J. Coel, Jr. (6)

*L. D. Galloway*  
L. D. Galloway