

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE January 27, 1958

|                                               |                            |                                               |                                 |
|-----------------------------------------------|----------------------------|-----------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                            | Lease<br><b>San Juan 28-7 Unit No. 93 (M)</b> |                                 |
| Location<br><b>840'S, 1550'W, Sec. 9-27-7</b> |                            | County<br><b>Rio Arriba</b>                   | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                |                            | Pool<br><b>Blanco</b>                         |                                 |
| Casing Diameter<br><b>7-5/8</b>               | Set At Feet<br><b>3312</b> | Tubing Diameter<br><b>2"</b>                  | Set At Feet<br><b>5610</b>      |
| Perforated From<br><b>5400</b>                | To<br><b>5661</b>          | Total Depth<br><b>5719</b>                    |                                 |
| Simulation Method<br><b>Sand Water Frac.</b>  |                            | Flow Through Casing                           | Flow Through Tubing<br><b>X</b> |

|                                               |                                    |                                                  |
|-----------------------------------------------|------------------------------------|--------------------------------------------------|
| Choke Size, inches<br><b>.750</b>             | Choke Constant, C<br><b>12.365</b> | 5-1/2" liner. 3281 - 5716                        |
| Shut-in Pressure, Casing, PSIG<br><b>1000</b> | PSIG - 12 - PSIA<br><b>1012</b>    | Days Shut-in<br><b>37 MV</b>                     |
| Flowing Pressure, Casing, PSIG<br><b>124</b>  | PSIG - 12 - PSIA<br><b>136</b>     | Shut-in Pressure, Tubing, PSIG<br><b>1056 MV</b> |
| Temperature, C<br><b>56</b>                   | <b>.75</b>                         | Working Pressure, Pw, PSIG<br><b>Calculated</b>  |
|                                               |                                    | PSIG - 12 - PSIA<br><b>271</b>                   |
|                                               |                                    | Flow From Tables<br><b>1.015</b>                 |
|                                               |                                    | Gravity<br><b>.690</b>                           |

Initial SIPC (PC) - 1000 psig; final - 1002 psig. 1-1/4" at 3168. Packer at 3330

CHOKE VOLUME  $Q = C \times \sqrt{P_1 - P_2} \times F_g \times F_v$

$$C = 12.365 \times 136 \times 1.0039 \times .9325 \times 1.015 = 1598 \text{ MCF/D}$$

$$\text{OPEN FLOW } A_{of} = Q \left( \frac{P_1 - P_2}{P_c - P_w} \right)^n$$

$$A_{of} = \left( \frac{1,140,624}{1,067,183} \right)^n \times 1.0688^{.75} \times 1598 = 1.0511 \times 1598$$

$$A_{of} = 1680 \text{ MCF/D}$$

BY S. V. Roberts

WITNESSED BY  
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AZTEC DISTRICT OFFICE

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