

# OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 31, 1958

|                                               |                            |                                           |                                 |
|-----------------------------------------------|----------------------------|-------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                            | Lease<br><b>San Juan 27-4 Unit 17 (M)</b> |                                 |
| Location<br><b>810S, 1150W; 29-27-4</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>5-1/2</b>               | Set At Feet<br><b>5983</b> | Tubing Diameter<br><b>2"</b>              | Set At Feet<br><b>5865</b>      |
| Pay Zone, From<br><b>5768</b>                 | To<br><b>5948</b>          | Total Depth<br><b>5988 c/o 5956</b>       | Shut-in 7-17-58                 |
| Stimulation 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> | <b>5-1/2 liner</b>                                          |
| Shut-In Pressure, Casing, PSIG<br><b>1002 (PC)</b> | PSIG - 12 - PSIA<br><b>1014</b>    | Shut-In Pressure, Tubing, PSIG<br><b>1134 (MV)</b>          |
| Flowing Pressure, P, PSIG<br><b>196</b>            | PSIG - 12 - PSIA<br><b>208</b>     | Working Pressure, P <sub>w</sub> , PSIG<br><b>Calc. 420</b> |
| Temperature, T, F<br><b>65</b>                     | n<br><b>.75</b>                    | Epv (From Tables)<br><b>1.022</b>                           |
|                                                    |                                    | Gravity<br><b>.706</b>                                      |

Initial SIPT (PC) 1002 psig  
Final SIPC (PC) 1006 psig

Packer at 3888, Guiberson

CHOKE VOLUME - Q = C x P<sub>i</sub> x F<sub>1</sub> x F<sub>g</sub> x F<sub>v</sub>

$$Q = 12.365 \times 208 \times .9952 \times .9225 \times 1.022 = 2413 \text{ MCF/D}$$

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

Aof  $\left( \frac{1313316}{1136916} \right)^n$

$$1.1551^{.75} \times 2413 = 1.1142 \times 2413$$

Aof 2689 MCF/D

Clear Gas

TESTED BY Frank M. Clark

WITNESSED BY

Checked By M. W. Rischard

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L. D. Galloway

