

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADUAL COMPLETIONDATE April 12, 1957

|                                               |                             |                                                              |                                 |
|-----------------------------------------------|-----------------------------|--------------------------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                             | Lease<br><b>Rincon Unit # 100</b>                            |                                 |
| Location<br><b>990'S, 990'E, Sec. 26-27-6</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>5½</b>                 | Set At: Feet<br><b>5757</b> | Tubing: Diameter<br><b>2</b>                                 | Set At: Feet<br><b>5393</b>     |
| Pay Zone: From<br><b>5000</b>                 | To<br><b>5660</b>           | Total Depth:<br><b>5760 - o/o - 5700. Packer set at 3527</b> |                                 |
| Stimulation Method<br><b>Sand Water Frac</b>  |                             | Flow Through Casing                                          | Flow Through Tubing<br><b>X</b> |

|                                                    |                                     |                                                              |                            |
|----------------------------------------------------|-------------------------------------|--------------------------------------------------------------|----------------------------|
| Choke Size, Inches<br><b>0.75</b>                  | Choke Constant: C<br><b>12.3650</b> |                                                              |                            |
| Shut-In Pressure, Casing, PSIG<br><b>P.C. 1022</b> | - 12 = PSIA<br><b>8</b>             | Shut-In Pressure, Tubing, PSIG<br><b>1062</b>                | - 12 = PSIA<br><b>1074</b> |
| Flowing Pressure: P, PSIG<br><b>390</b>            | - 12 = PSIA<br><b>402</b>           | Working Pressure: P <sub>w</sub> , PSIG<br><b>Calculated</b> | - 12 = PSIA<br><b>808</b>  |
| Temperature: T, °F<br><b>64</b>                    | n<br><b>.75</b>                     | F <sub>pv</sub> (From Tables)<br><b>1.048</b>                | Gravity<br><b>.693</b>     |

Final SIPC (P.C.) - 1025 psig

CHOKE VOLUME -  $Q = C \times P_1 \times F_1 \times F_d \times F_{pv}$ 

$$Q = 12.365 \times 402 \times .9962 \times .9325 \times 1.048$$

4839

MCF/D

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

$$A_{of} = \left( \frac{1,151,476}{500,612} \right)^{.75} \times 4839 = 1.870 \times 4839$$

Aof **9049** MCF/DTESTED BY **R. A. Ullrich**WITNESSED BY  
**COI E. J. Coel, Jr. (6)**

L. D. Galloway