

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE March 8, 1957

|                                                |                             |                                   |                             |
|------------------------------------------------|-----------------------------|-----------------------------------|-----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>Rincon Unit # 94</b>  |                             |
| Location<br><b>800'S, 900'W, Sec. 12-26-7</b>  |                             | County<br><b>Rio Arriba</b>       | State<br><b>New Mexico</b>  |
| Formation<br><b>Pictured Cliffs</b>            |                             | Pool<br><b>South Blanco</b>       |                             |
| Casing: Diameter<br><b>5½</b>                  | Set At: Feet<br><b>2835</b> | Tubing: Diameter<br><b>1¼</b>     | Set At: Feet<br><b>2764</b> |
| Perforation Zone: From<br><b>2756</b>          | To<br><b>2794</b>           | Total Depth:<br><b>c/o - 2805</b> |                             |
| Stimulation Method<br><b>Sand Water Frac</b>   |                             | Flow Through Casing<br><b>X</b>   | Flow Through Tubing         |

|                                              |                           |                                     |                                              |
|----------------------------------------------|---------------------------|-------------------------------------|----------------------------------------------|
| Choke Size, Inches<br><b>0.75</b>            |                           | Choke Constant: C<br><b>14.1605</b> |                                              |
| Shut-In Pressure, Casing, PSIG<br><b>827</b> | - 12 = PSIA<br><b>839</b> | Days Shut-In<br><b>18</b>           | Shut-In Pressure, Tubing, PSIG<br><b>827</b> |
| Flowing Pressure: P, PSIG<br><b>356</b>      | - 12 = PSIA<br><b>368</b> |                                     | Working Pressure: P, PSIG<br><b>367</b>      |
| Temperature: T, °F<br><b>65</b>              | n = <b>.85</b>            |                                     | Fpv (From Tables)<br><b>1.037</b>            |
|                                              |                           |                                     | Gravity<br><b>.660</b>                       |

CHOKE VOLUME =  $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$  $Q = 14.1605 \times 368 \times .9952 \times .9535 \times 1.037 = 5128$  MCF/D

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

$$A_{of} = \left( \frac{703,921}{560,280} \right)^n = (1.2563)^{.85} \times 5128 = 1.2140 \times 5128$$

Aof 6225 MCF/D

TESTED BY K. C. McBride

APPROVED BY

By: Tom Grant
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 L. D. Galloway

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