

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE September 23, 1957

|                                                |                             |                                             |                             |
|------------------------------------------------|-----------------------------|---------------------------------------------|-----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>Jicarilla No. 8-H</b>           |                             |
| Location<br><b>990'N, 990'E, Sec. 8-24-4</b>   |                             | County<br><b>Rio Arriba</b>                 | State<br><b>New Mexico</b>  |
| Formation<br><b>Pictured Cliffs</b>            |                             | Pool<br><b>Undesignated Do. Blanco Est.</b> |                             |
| Casing: Diameter<br><b>5-1/2</b>               | Set At: Feet<br><b>2868</b> | Tubing: Diameter<br><b>1-1/4</b>            | Set At: Feet<br><b>2821</b> |
| Pay Zone: From<br><b>2747</b>                  | To<br><b>2820</b>           | Total Depth:<br><b>2868 - c/o 2832</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>12.365</b> |                                                    |                           |  |
| Shut-in Pressure, Casing, PSIG<br><b>812</b> | - 12 = PSIA<br><b>824</b> | Days Shut-In<br><b>12</b>          | Shut-in Pressure, Tubing PSIG<br><b>812</b>        | - 12 = PSIA<br><b>824</b> |  |
| Flowing Pressure: P PSIG<br><b>27</b>        | - 12 = PSIA<br><b>39</b>  |                                    | Working Pressure: P <sub>w</sub> PSIG<br><b>69</b> | - 12 = PSIA<br><b>81</b>  |  |
| Temperature: T °F<br><b>65</b>               | n = <b>.85</b>            |                                    | F <sub>pv</sub> (From Tables)<br><b>1.004</b>      | Gravity<br><b>.695</b>    |  |

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 39 \times .9952 \times .9292 \times 1.004 = \underline{448} \text{ MCF/D}$$

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

$$Aof = \left( \frac{678,976}{672,415} \right)^n = 1.0097^{.85} \times 448 = 1.0082 \times 448$$

$$Aof = \underline{452} \text{ MCF/D}$$

TESTED BY R. A. UllrichWITNESSED BY Virgil Stoabs (J. Glenn Turner)

L. D. Galloway  
L. D. Galloway

OIL CONSERVATION COMMISSION

ADJUTANT GENERAL'S OFFICE

|              |              |              |               |
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| 1. NAME      | 2. GRADE     | 3. POSITION  | 4. SIGNATURE  |
| 5. DATE      | 6. TIME      | 7. PLACE     | 8. INITIALS   |
| 9. COMMENTS  | 10. COMMENTS | 11. COMMENTS | 12. COMMENTS  |
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| 97. COMMENTS | 98. COMMENTS | 99. COMMENTS | 100. COMMENTS |