

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 16, 1972

|                                                          |                             |                                     |                                   |
|----------------------------------------------------------|-----------------------------|-------------------------------------|-----------------------------------|
| Operator<br><u>El Paso Natural Gas Company</u>           |                             | Lease<br><u>Barnes No. 8 (OWWO)</u> |                                   |
| Location<br><u>1750/S, 1750/W, Sec. 26, T 32N, R 11W</u> |                             | County<br><u>San Juan</u>           | State<br><u>New Mexico</u>        |
| Formation<br><u>Mesa Verde</u>                           |                             | Pool<br><u>Blanco</u>               |                                   |
| Casing: Diameter<br><u>4.500</u>                         | Set At: Feet<br><u>5908</u> | Tubing: Diameter<br><u>2.375</u>    | Set At: Feet<br><u>5795</u>       |
| Pay Zone: From<br><u>4982</u>                            | To<br><u>5824</u>           | Total Depth:<br><u>5908</u>         | Shut In<br><u>6-9-72</u>          |
| Stimulation Method<br><u>S.W.F.</u>                      |                             | Flow Through Casing                 | Flow Through Tubing<br><u>XXX</u> |

|                                              |                           |                                    |                                                     |                           |                               |
|----------------------------------------------|---------------------------|------------------------------------|-----------------------------------------------------|---------------------------|-------------------------------|
| Choke Size, Inches<br><u>0.750</u>           |                           | Choke Constant: C<br><u>12.365</u> |                                                     |                           |                               |
| Shut-In Pressure, Casing, PSIG<br><u>698</u> | + 12 = PSIA<br><u>710</u> | Days Shut-In<br><u>7</u>           | Shut-In Pressure, Tubing PSIG<br><u>698</u>         | + 12 = PSIA<br><u>710</u> |                               |
| Flowing Pressure: P PSIG<br><u>229</u>       | + 12 = PSIA<br><u>241</u> |                                    | Working Pressure: P <sub>w</sub> PSIG<br><u>624</u> | + 12 = PSIA<br><u>636</u> |                               |
| Temperature:<br>T = <u>74 °F</u>             | n =<br><u>.75</u>         |                                    | F <sub>pv</sub> (From Tables)<br><u>1.021</u>       | Gravity<br><u>.645</u>    | F <sub>g</sub> = <u>.9645</u> |

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(241)(.9868)(.9645)(1.021) = \underline{2896} \text{ MCF/D}$$

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

NOTE: Well produced dry gas throughout test.

$$Aof = \left( \frac{504100}{99604} \right)^n = (2896)(5.0610)^{.75} = (2896)(3.3743)$$

$$Aof = \underline{9771} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY \_\_\_\_\_



*L. E. Mabe, Jr.*  
L. E. Mabe, Jr.