

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE October 20, 1965

|                                                         |                             |                                          |                             |
|---------------------------------------------------------|-----------------------------|------------------------------------------|-----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>          |                             | Lease<br><b>Allison Unit No. 27 (MV)</b> |                             |
| Location<br><b>990'N, 990'E, Sec. 30, T-32-N, R-6-W</b> |                             | County<br><b>San Juan</b>                | State<br><b>New Mexico</b>  |
| Formation<br><b>Mesa Verde</b>                          |                             | Pool<br><b>Blanco</b>                    |                             |
| Casing: Diameter<br><b>5.500</b>                        | Set At: Feet<br><b>7829</b> | Tubing: Diameter<br><b>1.660</b>         | Set At: Feet<br><b>5670</b> |
| Pay Zone: From<br><b>5624</b>                           | To<br><b>5694</b>           | Total Depth:<br><b>7830</b>              | Shut In<br><b>9-28-65</b>   |
| Stimulation Method<br><b>Sand Water Frac</b>            |                             | Flow Through Casing<br><b>X</b>          | Flow Through Tubing         |

|                                                                |                                    |                           |                                                     |                                                      |
|----------------------------------------------------------------|------------------------------------|---------------------------|-----------------------------------------------------|------------------------------------------------------|
| Choke Size, Inches<br><b>.750</b>                              | Choke Constant: C<br><b>12.365</b> |                           | Baker Model "D" Packer Set at <b>5740</b>           |                                                      |
| Shut-In Pressure, Casing, (MV)<br><b>1165</b> PSIG             | + 12 = PSIA<br><b>1177</b>         | Days Shut-In<br><b>22</b> | Shut-In Pressure, Tubing (MV)<br><b>1165</b> PSIG   | + 12 = PSIA<br><b>1177</b>                           |
| Flowing Pressure: P<br><b>369</b> PSIG                         | + 12 = PSIA<br><b>381</b>          |                           | Working Pressure: P <sub>w</sub><br><b>424</b> PSIG | + 12 = PSIA<br><b>436</b>                            |
| Temperature:<br>T = <b>82</b> °F F <sub>t</sub> = <b>.9795</b> | n =<br><b>.75</b>                  |                           | F <sub>pv</sub> (From Tables)<br><b>1.033</b>       | Gravity<br><b>.650</b> F <sub>g</sub> = <b>.9608</b> |

ISIPT (DK) 2816 PSIG

FSIPT (DK) 2831 PSIG

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

$$Q = \underline{\hspace{2cm}} \underline{4580} \underline{\hspace{2cm}} \text{ MCF/D}$$

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

$$Aof = \left( \frac{1,385,329}{1,195,233} \right)^n = (4850) \times (1.1590)^{.75} = (1.1590) \times (4580)$$

NOTE: Blew very light water fog for 15 mins.

$$Aof = \underline{5116} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY: Hermon E. McAnally~~WITNESSED BY~~
Lewis D. Galloway  
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