

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 1, 1962

|                                                |                             |                                      |                             |
|------------------------------------------------|-----------------------------|--------------------------------------|-----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>Howell No. 5</b>         |                             |
| Location<br><b>1180'S, 870'W, Sec. 31-30-8</b> |                             | County<br><b>San Juan</b>            | State<br><b>New Mexico</b>  |
| Formation<br><b>Pictured Cliff</b>             |                             | Pool<br><b>Blanco</b>                |                             |
| Casing: Diameter<br><b>2.875</b>               | Set At: Feet<br><b>3025</b> | Tubing: Diameter<br><b>No Tubing</b> | Set At: Feet<br><b>----</b> |
| Pay Zone: From<br><b>2955</b>                  | To<br><b>2976</b>           | Total Depth:<br><b>3032</b>          | Shut In<br><b>9-21-62</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> |                                                         | <b>"TUBINGLESS COMPLETION"</b> |                             |
| Shut-In Pressure, Casing, PSIG<br><b>1048</b> | 12 PSIA<br><b>1060</b>   | Days Shut-In<br><b>10</b>          | Shut-In Pressure, Tubing, PSIG<br><b>No Tubing</b>      | 12 PSIA<br><b>----</b>         |                             |
| Flowing Pressure: P, PSIG<br><b>189</b>       | 12 PSIA<br><b>201</b>    |                                    | Working Pressure: P <sub>w</sub> , PSIG<br><b>Calc.</b> | 12 PSIA<br><b>253</b>          |                             |
| Temperature, °F<br><b>66</b>                  | n, °F<br><b>Fr .9943</b> |                                    | F <sub>pv</sub> (From Tables)<br><b>1.018</b>           | Gravity<br><b>.650</b>         | F <sub>g</sub> <b>.9608</b> |

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

$Q = (12.365)(201)(.9943)(.9608)(1.018)$  **2417** MCF/D

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

Aof  $\left( \frac{1,123,600}{1,059,591} \right)^n = (1.0604)^{.85}(2417) = (1.0511)(2417)$

Aof **2541** MCF/D

NOTE: Blew clear gas



TESTED BY **T. B. Grant**

WITNESSED BY

Checked by: W. D. Dawson

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