

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE **November 14, 1963**

|   |                             |   |                                 |
|---|-----------------------------|---|---------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>  |                             | Lease<br><b>Pritchard No. 2-1 (OWO)</b> |                                 |
| Location<br><b>1180'N, 1850'E, Sec. 34-31-9</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>4.500</b>                | Set At: Feet<br><b>5226</b> | Tubing: Diameter<br><b>2.375</b>        | Set At: Feet<br><b>5144</b>     |
| Pay Zone: From<br><b>4606</b>                   | To<br><b>5158</b>           | Total Depth:<br><b>5226</b>             | Shut In<br><b>10-24-63</b>      |
| Stimulation Method<br><b>Sand/Water Frac.</b>   |                             | Flow Through Casing                     | Flow Through Tubing<br><b>X</b> |

|  |                                    |                           |   |
|--|------------------------------------|---------------------------|---|
| Choke Size, Inches<br><b>.75</b>             | Choke Constant: C<br><b>12.365</b> |                           |   |
| Shut-In Pressure, Casing, PSIG<br><b>855</b> | + 12 = PSIA<br><b>867</b>          | Days Shut-In<br><b>21</b> | Shut-In Pressure, Tubing PSIG<br><b>854</b> |
| Flowing Pressure: P PSIG<br><b>331</b>       | + 12 = PSIA<br><b>343</b>          |                           | Working Pressure: Pw PSIG<br><b>758</b>     |
| Temperature:<br>T = <b>79</b> °F             | F = <b>.9822</b>                   | n = <b>.75</b>            | Fpv (From Tables)<br><b>1.032</b>           |
|  |                                    |                           | Gravity<br><b>.660</b> Fg = <b>.9535</b>    |

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = **12.365 x 343 x .9833 x .9535 x 1.032 = 4099 MCF/D**

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

Aof =  $\left( \frac{751,689}{158,789} \right)^n$  (4099) (4.7338)<sup>.75</sup> = (4099) (3.2080)

Aof = **13150 MCF/D**

TESTED BY **R. F. Headrick**

Calculated by **W. D. Dawson**

Checked by **T. B. Grant**



*Lewis D. Galloway*  
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