

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 5, 1964

|                                                          |                             |                                  |                                 |
|----------------------------------------------------------|-----------------------------|----------------------------------|---------------------------------|
| Operator<br><u>La Plata Gathering System</u>             |                             | Lease<br><u>Kelly No. 1-35</u>   |                                 |
| Location<br><u>965'S, 850'E, Sec. 35, T-30-N, R-10-W</u> |                             | County<br><u>San Juan</u>        | State<br><u>New Mexico</u>      |
| Formation<br><u>Dakota</u>                               |                             | Pool<br><u>Basin</u>             |                                 |
| Casing: Diameter<br><u>4.500</u>                         | Set At: Feet<br><u>7242</u> | Tubing: Diameter<br><u>2.375</u> | Set At: Feet<br><u>6966</u>     |
| Pay Zone: From<br><u>6959'</u>                           | To<br><u>7163</u>           | Total Depth:<br><u>7250'</u>     | Shut In<br><u>4-27-64</u>       |
| Stimulation Method<br><u>Sand Water Frac.</u>            |                             | Flow Through Casing              | Flow Through Tubing<br><u>X</u> |

|                                               |                            |                                    |                                              |
|-----------------------------------------------|----------------------------|------------------------------------|----------------------------------------------|
| Choke Size, Inches<br><u>0.750</u>            |                            | Choke Constant: C<br><u>12.365</u> |                                              |
| Shut-In Pressure, Casing, PSIG<br><u>2012</u> | + 12 = PSIA<br><u>2024</u> | Days Shut-In<br><u>8</u>           | Shut-In Pressure, Tubing PSIG<br><u>2012</u> |
| Flowing Pressure: P PSIG<br><u>130</u>        | + 12 = PSIA<br><u>142</u>  |                                    | Working Pressure: Pw PSIG<br><u>662</u>      |
| Temperature:<br>T = <u>70</u> °F              | Ft = <u>.9905</u>          | n = <u>.75</u>                     | Fpv (From Tables)<br><u>1.015</u>            |
|                                               |                            |                                    | Gravity<br><u>0.700</u> Fg = <u>.9258</u>    |

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

$$Q = (12.365) (142) (.9905) (.9258) (1.015) = \underline{1634} \text{ MCF/D}$$

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

$$Aof = \left( \frac{4096576}{3642300} \right)^n = (1634) (1.1247)^{.75} = (1634) (1.0920)$$

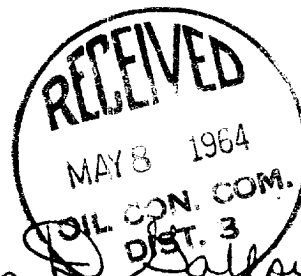
NOTE: This well produced a heavy spray of distillate and water throughout the test.

$$Aof = \underline{1784} \text{ MCF/D}$$

TESTED BY H. E. McAnally (EPNG)

WITNESSED BY Oliver Towell (La Plata)

CHECKED BY Tom B. Grant (EPNG)



Lewis D. Galloway