

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE November 29, 1960

|                                                |                             |                                         |                                 |
|------------------------------------------------|-----------------------------|-----------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                             | Lease<br><b>San Juan 28-5 No. 47-36</b> |                                 |
| Location<br><b>930'N, 1850'E, 36-28N-5W</b>    |                             | County<br><b>Rio Arriba</b>             | State<br><b>New Mexico</b>      |
| Formation<br><b>Mesa Verde</b>                 |                             | Pool<br><b>Blanco</b>                   |                                 |
| Casing: Diameter<br><b>5-1/2"</b>              | Set At: Feet<br><b>6014</b> | Tubing: Diameter<br><b>2-3/8</b>        | Set At: Feet<br><b>5932</b>     |
| Pay Zone: From<br><b>5792</b>                  | To<br><b>5946</b>           | Total Depth:<br><b>6021 C/O 5969</b>    | Shut In<br><b>11-22-60</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>1094</b> | + 12 = PSIA<br><b>1106</b>    | Days Shut-In<br><b>7</b>                      | Shut-In Pressure, Tubing, PSIG<br><b>1093</b> |
| Flowing Pressure: P (Tbg) PSIG<br><b>320</b>  | + 12 = PSIA<br><b>332</b>     | Working Pressure: Pw (Csg) PSIG<br><b>779</b> | + 12 = PSIA<br><b>791</b>                     |
| Temperature: T = <b>69</b> °F                 | F <sub>t</sub> = <b>.9915</b> | F <sub>pv</sub> (From Tables)<br><b>1.032</b> | Gravity<br><b>.650</b>                        |
|                                               | <b>.75</b>                    |                                               | F <sub>g</sub> = <b>.9608</b>                 |

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

$$Q = (12.365)(332)(.9915)(.9608)(1.032) = 4036 \text{ MCF/D}$$

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

$$Aof = \left( \frac{1,223,236}{597,555} \right)^n = (2.0470)^{.75} (4036) = (1.7100)(4036)$$

Aof = 6902 MCF/D

TESTED BY D. E. Mortensen

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

Calculated by W. D. Dawson

Checked by T. B. Grant



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