

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 18, 1959

|                                               |                             |                                     |                                 |
|-----------------------------------------------|-----------------------------|-------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                             | Lease<br><b>Huerfano 109 (D)</b>    |                                 |
| Location<br><b>1650S, 990E; 2-26-10</b>       |                             | County<br><b>San Juan</b>           | State<br><b>New Mexico</b>      |
| Formation<br><b>Dakota</b>                    |                             | Pool<br><b>Angel Peak</b>           |                                 |
| Casing: Diameter<br><b>7-5/8</b>              | Set At: Feet<br><b>6380</b> | Tubing: Diameter<br><b>2"</b>       | Set At: Feet<br><b>6909</b>     |
| Pay Zone: From<br><b>6848</b>                 | To<br><b>6922</b>           | Total Depth<br><b>7025 c/o 6936</b> | Re<br><b>Shut In: 8/31/59</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         |                                                     |
| Shut-In Pressure, Casing, PSIG<br><b>1140 (Gal)</b> | - 12 PSIA<br><b>1152</b> | Days Shut-In<br><b>18</b> | Shut-In Pressure, Tubing, PSIG<br><b>1840 (Dak)</b> |
| Flowing Pressure, PSIG<br><b>272</b>                | - 12 PSIA<br><b>284</b>  |                           | Working Pressure, PSIG<br><b>Calc. 629</b>          |
| Temperature, F<br><b>74</b>                         |                          |                           | Gravity<br><b>.72</b>                               |
|                                                     | <b>.75</b>               |                           | <b>1.031</b>                                        |

Initial SIPT (G) = 1140 psig

Final SIPC (G) = 1149 psig

Packer at 6231

CHOKE VOLUME  $Q = C \times P_c \times F_p \times F_g \times F_{pv}$ 

Q Calculated from orifice meter reading

3432

MCF/D

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

$$Aof = \left( \frac{3429904}{3034263} \right)^n$$

$$1.1303^{.75} \times 3432 = 1.0960 \times 3432$$

Aof 3761 MCF/D



TESTED BY S. V. Roberts, W.D. Dawson, T.B. Grant

WITNESSED BY

*L. D. Galloway*  
L. D. Galloway

# OIL CONSERVATION COMMISSION

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