

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 18, 1957

|                                                       |                                                |                                               |                             |
|-------------------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------|
| Operator<br><b>El Paso Natural Gas</b>                |                                                | Lease<br><b>San Juan 28-7 Unit No. 81 (P)</b> |                             |
| Location<br><b>1675'N, 1750'E, Sec. 9-27-7</b>        |                                                | County<br><b>Rio Arriba</b>                   | State<br><b>New Mexico</b>  |
| Formation<br><b>Pictured Cliffs</b>                   |                                                | Pool<br><b>Undesignated</b>                   |                             |
| Casing: Diameter <b>7-5/8"</b><br><b>5-1/2" liner</b> | Set At: Feet <b>3558</b><br><b>2319 - 5838</b> | Tubing: Diameter<br><b>1-1/4</b>              | Set At: Feet<br><b>3420</b> |
| Pay Zone: From<br><b>3368</b>                         | To<br><b>3420</b>                              | Total Depth:<br><b>5843</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> |                                             |                           |  |
| Shut-In Pressure, Casing, PSIG<br><b>835</b> | - 12 = PSIA<br><b>847</b> | Days Shut-In<br><b>9</b>           | Shut-In Pressure, Tubing PSIG<br><b>835</b> | - 12 = PSIA<br><b>847</b> |  |
| Flowing Pressure: P PSIG<br><b>79</b>        | - 12 = PSIA<br><b>91</b>  |                                    | Working Pressure: Pw PSIG<br><b>80</b>      | - 12 = PSIA<br><b>92</b>  |  |
| Temperature: T °F<br><b>57</b>               | n =<br><b>.850</b>        |                                    | Fpv (From Tables)<br><b>1.007</b>           | Gravity<br><b>.630</b>    |  |

Initial SIPT (MV) - 922 psig; final - 924 psig. Packer at 3558. Sleeve at 3434

CHOKE VOLUME :  $Q = C \times P_r \times F \times F_g \times F_{pv}$ 

$$Q = 12.365 \times 91 \times 1.0029 \times .9759 \times 1.007 = \underline{1109} \text{ MCF/D}$$

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

$$Aof = \left( \frac{717,409}{708,945} \right)^n = 1.0119^{.85} \times 1109 = 1.0101 \times 1109$$

$$Aof \quad \underline{1120} \text{ MCF/D}$$

TESTED BY R. R. Davis

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

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



# OIL CONSERVATION COMMISSION

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