

# OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 15, 1959

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Operator<br><b>El Paso Natural Gas</b>  | Well No.<br><b>San Juan 30-6 No. 31 (D)</b> |
| Location<br><b>790S, 1850W; 33-30-6</b> | State<br><b>New Mexico</b>                  |
| County<br><b>Dakota</b>                 | Field<br><b>Undesignated</b>                |
| Casing Size<br><b>9-5/8</b>             | Casing Weight<br><b>3476</b>                |
| Perforations<br><b>7711</b>             | Perforations<br><b>7763</b>                 |
| Perforations<br><b>7635</b>             | Perforations<br><b>7763</b>                 |
| Completion<br><b>Sand Water Frac.</b>   | Shut In: <b>7/2/59</b>                      |
|                                         | Flow Through Tubing<br><b>X</b>             |

|                                      |                               |                                                       |
|--------------------------------------|-------------------------------|-------------------------------------------------------|
| Choke Size<br><b>.75</b>             | Choke Length<br><b>12.365</b> | 7" liner <b>3402-7440</b> , 5" liner <b>7362-7870</b> |
| Shut-In Pressure<br><b>1013 (MV)</b> | PSIG<br><b>1025</b>           | PSIG<br><b>2393 (Dak)</b>                             |
| Flowing Pressure<br><b>69</b>        | PSIG<br><b>81</b>             | PSIG<br><b>2405</b>                                   |
| Temperature<br><b>67</b>             | Gravity<br><b>.75</b>         | Gravity<br><b>178</b>                                 |
|                                      |                               | Gravity<br><b>1.009</b>                               |

Initial SIPT (MV) = 1007 psig  
Final SIPC (MV) = 1015 psig

Packer at 7275

CHOKE VOLUME  $Q = C \times P_1 \times P_2 \times P_3 \times P_4$

$$Q = 12.365 \times 81 \times .9933 \times .9608 \times 1.009$$

964

MCF/D

$$\text{OPEN FLOW } Q = \left( \frac{P_1^2 - P_2^2}{P_3^2 - P_4^2} \right)^n$$

$$Q = \left( \frac{5784025 - 5752341}{P_3^2 - P_4^2} \right)^n$$

$$1.0055^{.75} \times 964 = 1.0041 \times 964$$

$$Q = 968 \text{ MCF/D}$$

S. V. Roberts

Tom Smith, N.M.O.C.C., W.B. Smith, Phillips Pet.



L. D. Galloway  
L. D. Galloway

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