

# OPEN FLOW TEST DATA

DUAL COMPLETION

DATE

August 7, 1958

|                                               |                            |                                           |                                 |
|-----------------------------------------------|----------------------------|-------------------------------------------|---------------------------------|
| Operator<br><b>El Paso Natural Gas</b>        |                            | Lease<br><b>San Juan 27-5 Unit 31 (M)</b> |                                 |
| Location<br><b>990N, 990E; 24-27-5</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>5836</b> | Tubing Diameter<br><b>2"</b>              | Set At Feet<br><b>5746</b>      |
| Pay Zone From<br><b>5162</b>                  | To<br><b>5744</b>          | Total Depth<br><b>5831</b>                | Shut-in 7/20/58                 |
| 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>  | Pressure, Casing<br><b>839 (PC)</b> | Pressure, Tubing<br><b>851</b>      | Pressure, Flowing<br><b>18</b>  |
| Flowing Pressure, P<br><b>261</b> | Pressure, P<br><b>273</b>           | Working Pressure, P<br><b>Calc.</b> | Pressure, P<br><b>551</b>       |
| Temperature, T<br><b>67</b>       | Temperature, T<br><b>.75</b>        | Flow from Tables<br><b>1.028</b>    | Flow from Tables<br><b>.674</b> |

Initial SIPT (PC) 839 psig

Final SIPC (PC) 844 psig

Packer at 3550

CHOKE VOLUME  $Q = C \times P_r \times F \times F_v$

$$Q = 12.365 \times 273 \times .9933 \times 9463 \times 1.028$$

3262

MCF/D

PERMEABILITY  $Q = \left( \frac{P_r^2 - P_w^2}{P_r^2} \right) \times Q$

$$\left( \frac{P_r^2 - P_w^2}{P_r^2} \right) \times Q$$

$$\left( \frac{1100401 - 796800}{1100401} \right) \times 3262$$

$$1.3810^{.75} (3262) = 1.2738 (3262)$$

4155

MCF/D

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