

OPEN FLOW TEST DATA **CORRECTED. COPY**

CORRECTED COPY

DATE **November 20, 1963**

|                                                              |                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>               | Lease<br><b>San Juan Unit 32-9 No. 24 (OWWO)</b>                |
| Location<br><b>990'N, 990'E, Sec. 5, T-31-N, R-9-W</b>       | County<br><b>San Juan</b> State<br><b>New Mexico</b>            |
| Formation<br><b>Mesa Verde</b>                               | Pool<br><b>Blanco</b>                                           |
| Casing: Diameter<br><b>5.500</b> Set At: Feet<br><b>5941</b> | Tubing: Diameter<br><b>2.375</b> Set At: Feet<br><b>5865</b>    |
| Pay Zone: From<br><b>5492</b> To<br><b>5896</b>              | Total Depth:<br><b>5945</b> Shut In<br><b>11-12-63</b>          |
| Stimulation Method<br><b>Sand/Water Frac.</b>                | Flow Through Casing<br><b>X</b> Flow Through Tubing<br><b>X</b> |

|                                                         |                                                      |                                                                           |
|---------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------|
| Choke Size, Inches<br><b>0.750</b>                      | Choke Constant: C<br><b>12.365</b>                   | <b>Baker EGJ Packer at 5392'</b>                                          |
| Shut-In Pressure, Casing, PSIG<br><b>22 (On Packer)</b> | PSIG - 12 PSIA<br><b>34</b> Days Shut-In<br><b>8</b> | Shut-In Pressure, Tubing, PSIG<br><b>816</b> PSIG - 12 PSIA<br><b>828</b> |
| Flowing Pressure, P, PSIG<br><b>163</b>                 | PSIG - 12 PSIA<br><b>175</b>                         | Working Pressure, Pw, PSIG<br><b>Calc.</b> PSIG - 12 PSIA<br><b>348</b>   |
| Temperature:<br>T <b>84</b> F                           | Ft. <b>.9777</b> <b>.75</b>                          | Fpw (From Tables)<br><b>1.014</b> Gravity<br><b>.650</b> Fg <b>.9608</b>  |

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

$$Q = 12.365 \times 175 \times .9777 \times .9608 \times 1.014$$

2061

MCF/D

$$\text{OPEN FLOW } A_{of} = Q \left( \frac{P_r^2}{P_w^2 - P_a^2} \right)^n$$

$$A_{of} = \left( \frac{685,584}{564,480} \right)^n$$

$$(1.2145)^{.75} (2061) = (1.1569) (2061)$$

$$A_{of} = 2384 \text{ MCF/D}$$

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OIL CON. COM.  
DIST. 3

NOTE: Light spray of water and distillate throughout test.

\*\* Well worked over to repair casing failure. Holes in casing were squeezed-cemented and a packer set on the tubing.

TESTED BY **D. R. Roberts**Calculated by **H. E. McAnally**Checked by **T. B. Grant**

*Lewis D. Galloway*  
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