

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 21, 1963

|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>  | Lease<br><b>San Juan Unit 32-7 No. 39 (MV)</b>       |
| Location<br><b>1650'S, 1840'W, Sec. 23-32-7</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>5.50</b>                  | Set At Feet<br><b>8054</b>                           |
| Perforation From<br><b>5808</b>                 | To<br><b>5860</b>                                    |
| Stimulation Method<br><b>Sand/Water Frac.</b>   | Flow Through Casing<br><b>X</b>                      |
|                                                 | Flow Through Tubing<br><b>8-7-63</b>                 |

|                                               |                                    |                                               |
|-----------------------------------------------|------------------------------------|-----------------------------------------------|
| Choke Size, Inches<br><b>0.75</b>             | Choke Constant, C<br><b>12.365</b> | <b>Baker Model "N" Packer at 6011'.</b>       |
| Shut-in Pressure, Casing, PSIG<br><b>1130</b> | PSIA<br><b>1142</b>                | Shut-in Pressure, Tubing, PSIG<br><b>1130</b> |
| Flowing Pressure, P, PSIG<br><b>241</b>       | PSIA<br><b>253</b>                 | Working Pressure, Pw, PSIG<br><b>282</b>      |
| Temperature<br><b>74</b>                      | F<br><b>.9868</b>                  | Fpv (From Tables)<br><b>1.023</b>             |
|                                               | Fg<br><b>.9608</b>                 | Gravity<br><b>.650</b>                        |

Initial SIPT (DK) = 2717 psig

Final SIPT (DK) = 2736 psig

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

$$Q = (12.365)(253)(.9868)(.9608)(1.023)$$

3034

MCF D

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

$$Aof = \left( \frac{1,304,164}{1,217,728} \right)^n (1.0709)^{.73} (3034) = (1.0526)(3034)$$

Aof 3194 MCF D



TESTED BY D. Roberts & D. Mortensen

Checked by: H. E. McAnally

*Lewis D. Galloway*  
Lewis D. Galloway