

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE October 26, 1961

|                                                 |                            |                                      |                            |
|-------------------------------------------------|----------------------------|--------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b>  |                            | Lease<br><b>Riddle No. 1-E (OMW)</b> |                            |
| Location<br><b>1650'S, 990'E, Sec. 4-30N-9W</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>5-1/2" O.D.</b>           | Set At Feet<br><b>5285</b> | Tubing Diameter<br><b>2-3/8"</b>     | Set At Feet<br><b>5193</b> |
| Pay Zone: From<br><b>4622</b>                   | To<br><b>5220</b>          | Total Depth<br><b>5336 C/O 5251</b>  | Shut-in<br><b>9-25-61</b>  |
| Stimulation Method<br><b>Not Re-Stimulated</b>  |                            | Flow Through Tubing<br><b>X</b>      |                            |

|                                              |                                    |                                                                                                            |                                                       |
|----------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Choke Size, Inches<br><b>.75</b>             | Choke Constant: C<br><b>12.365</b> | <b>5-1/2" Liner set 4336-5285 on 1-1-58. 5-1/2" Inner string set inside 7" O.D. Cag. w/BH Pcr. at 4336</b> |                                                       |
| Shut-In Pressure, Casing, PSIG<br><b>739</b> | 12 - PSIA<br><b>751</b>            | Days Shut-In<br><b>31</b>                                                                                  | Shut-In Pressure, Tubing, PSIG<br><b>736</b>          |
| Flowing Pressure: P<br><b>462</b>            | 12 - PSIA<br><b>474</b>            |                                                                                                            | Working Pressure: P <sub>w</sub> , PSIG<br><b>510</b> |
| Temperature: T<br><b>72</b>                  |                                    |                                                                                                            | Gravity<br><b>.650</b>                                |
| <b>P<sub>t</sub> = .9887</b>                 | <b>.75</b>                         | <b>1.045</b>                                                                                               | <b>P<sub>g</sub> = .9608</b>                          |

CHOKE VOLUME -  $Q = C \times P_t \times F_t \times F_g \times F_{pv}$ 

$$Q = (12.365)(474)(.9887)(.9608)(1.045) = 5818 \text{ MCF D}$$

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

$$Aof = \left( \frac{564,001}{291,517} \right)^n = (1.9347)^{.75} (5818) = (1.6400)(5818)$$

$$Aof = 9542 \text{ MCF D}$$

TESTED BY C. R. Wagner

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

Checked by: W. D. Dawson

*H. L. Hendrick*  
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