

|                                          |                      |                                    |                      |
|------------------------------------------|----------------------|------------------------------------|----------------------|
| Operator<br>El Paso Natural Gas Company  |                      | Lease<br>San Juan 27-4 Unit No. 57 |                      |
| Location<br>990'S, 850'W, S28, T27N, R4W |                      | County<br>Rio Arriba               | State<br>New Mexico  |
| Formation<br>Dakota                      |                      | Pool<br>Basin                      |                      |
| Casing: Diameter<br>4.500                | Set At: Feet<br>8517 | Tubing: Diameter<br>1.990          | Set At: Feet<br>8448 |
| Pay Zone: From<br>8254                   | To<br>8468           | Total Depth:<br>8517               | Shut In<br>9-7-71    |
| Stimulation Method<br>S W F              |                      | Flow Through Casing<br>XX          | Flow Through Tubing  |

|                                        |                     |                             |                                              |                     |            |
|----------------------------------------|---------------------|-----------------------------|----------------------------------------------|---------------------|------------|
| Choke Size, Inches<br>0.750            |                     | Choke Constant: C<br>12.365 |                                              |                     |            |
| Shut-In Pressure, Casing, PSIG<br>2325 | + 12 = PSIA<br>2337 | Days Shut-In<br>9           | Shut-In Pressure, Tubing PSIG<br>2315        | + 12 = PSIA<br>2327 |            |
| Flowing Pressure: P PSIG<br>153        | + 12 = PSIA<br>165  |                             | Working Pressure: P <sub>w</sub> PSIG<br>581 | + 12 = PSIA<br>593  |            |
| Temperature:<br>T = 68 °F              | Ft = .9924          | n =<br>0.75                 | Fpv (From Tables)<br>1.018                   | Gravity<br>.695     | Fg = .9292 |

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(165)(.9924)(.9292)(1.018) = \underline{\quad 1915 \quad} \text{ MCF/D}$$

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

Note: Well blew heavy spray of water and distillate throughout test.

$$Aof = \left( \frac{5461569}{5109920} \right)^n = (1.0688)^{.75} (1915) = (1.0512)(1915) =$$

$$Aof = \underline{\quad 2013 \quad} \text{ MCF/D}$$

TESTED BY D. R. Roberts

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



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