EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 6, 1973

| El Paso Natural Gas Company Location 1710/N, 1640/E, Sec. 9, T24N, R6W Formation Pictured Cliffs | | Canyon Largo Unit #215 | | |
|--|--------------------|----------------------------|---------------------|--|
| | | County Rio Arriba | State New Mexico | |
| | | Pool Ballard | | |
| Casing: Diameter 2.875 | Set At: Feet 2414* | Tubing: Diameter No Tubing | Set A1; Feet | |
| Pay Zone: From 2306 | To 2372 | Total Depth: 2425 | Shut In 11-26-73 | |
| Stimulation Method Sandwater Frac | | Flow Through Casing X | Flow Through Tubing | |

| Choke Size, Inches | | Choke Constant: C | | | _ | |
|---------------------|------|-------------------|--------------|--------------------------|------|--|
| .750 | | | | Tubingless Completion | | |
| | PSIG | + 12 = PSIA | Days Shut-In | Shut-In Pressure, Tubing | PSIG | + 12 = PSIA |
| 500 | | 512 | 10 | No Tubing | | |
| Flowing Pressure: P | PSIG | + 12 = PSIA | | Working Pressure: Pw | PSIG | + 12 = PSIA |
| 38 | | 50 | | Calculated | | |
| Temperature: | | n = | | Fpv (From Tables) | | Gravity 700 Fg = .9258 |
| T= 54 °F Ft=1. | 0058 | .85 | | 1.004 | | $\frac{1.700}{1.00}$ Fg = $\frac{.9258}{1.00}$ |

CHOKE VOLUME = Q = C x P, x F, x Fg x Fpv

Q = (12.365)(50)(1.0058)(.9258)(1.004)

= <u>578</u> MCF/D

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & 2 & \\ & \frac{P_e}{P_e} & P_w \end{pmatrix}$$

Aof =
$$Q\left(\begin{array}{c} 262144 \\ 258544 \end{array}\right)^{n} = 578 (1.0139) \cdot ^{85} = (1.0118) (578)$$



Aof = _____MCF/D

Note: Unloaded heavy vapor for 5 minutes and then blew clear gas for remainder of test.

TESTED BY _____ Jesse B. Goodwin

WITNESSED BY_____

William DWeld

William D. Welch Well Test Engineer