EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

| | | DATEDe | cember 18, 1963 | |
|--|----------------------|------------------------|----------------------|--|
| Operator El Paso Natural Gas Company | | Leose Duff No. 2 | | |
| Location | | County | State | |
| 1650'S, 1090'W, Sec. 5, T-29-N, R-11-W | | San Juan | New Mexico | |
| Formation | | Pool | | |
| Mesa Verde | | Undesignated | | |
| Casing: Diameter 4.500 | Set At: Feet 3778 | Tubing: Diameter 2.375 | Set At: Feet 3816 | |
| Pay Zone: From | То | Total Depth: | Shut In | |
| 3716 | 3728 | 3781 | 12-9-63 | |
| Stimulation Method | | Flow Through Casing | Flow Through Tubing | |
| Sand/Water Frac. | | | X | |

| Choke Size, Inches | | Choke Constant: C | | | | | |
|----------------------------------|-------|--------------------|--------------|---------------------------------|------|--------------------|----|
| 0.750 | | 12.36 | 55 | | | | |
| Shut-In Pressure, Casing, 859 | PSIG | + 12 = PSIA 871 | Days Shut-In | Shut-In Pressure, Tubing 856 | PSIG | + 12 = PSIA 868 | |
| Flowing Pressure: P 196 | PSIG | + 12 = PSIA 208 | | Working Pressure: Pw 583 | PSIG | + 12 = PSIA 595 | |
| Temperature: | | n = | | Fpv (From Tables) | | Gravity | |
| T= 88 °F F+= | .9741 | .75 | | 1.022 | | .740 Fg = .900 | 05 |

$$Q = (12.365)(208)(.9741)(.9005)(1.022)$$

OPEN FLOW = Aof = Q
$$\begin{pmatrix} & & & \\ & \frac{P_c}{P_c - P_w} & \end{pmatrix}$$

Aof =
$$\left(\frac{758,641}{404,616}\right)^{n}$$
 = $(1.8749)^{.75}(2306)$ = $(1.6025)(2306)$

Aof = ______3695 _____MCF/D

NOTE: Unloaded slug of water after 5 minutes blew medium spray of water throughout balance of test.

TESTED BY D. E. Mortensen
Checked by
WHYNESSERVEY
W. D. Dawson

Lewis D. Galloway