EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

CORRECTED COPY

DATE November 26, 1975

| Operator El Paso Natural Gas Company | | Leose Howell D #3 (OWWO) | | | | |
|--------------------------------------|-----------------------|-----------------------------|---------------|------------------------|--|--|
| Location | Sec. 31, T31N, R8W | County San Juan | | State New Mexico | | |
| Fermation Mesa Verde | | Pool Blanco | | | | |
| Casing: Diameter | Set At: Feet 5878† | Tubing: Diameter | | Sat At: Feet 5770 | | |
| Pey Zone: From 5662 | To 5833' | Total Depth: 5879 t | PBTD 5862' | Shut in 11-11-75 | | |
| Stimulation Method Sandwater Frac | | Flow Through Casing | | Flow Through Tubing XX | | |

| Chake Size, Inches 2.50" Plate, 4" M.R. | Choke Constant: C 32.64 | Tested through a 3/4" | variable choke |
|---|--------------------------------|--------------------------------------|--------------------|
| Shut-In Pressure, Casing, PSIG 450 | + 12 = PSIA Days Shut- | In Shut-In Pressure, Tubing PSIG 283 | + 12 = PSIA 295 |
| Flowing Pressure: P PSIG 45 M.R., 101 W.H. | + 12 = PSIA 57 M.R., 113 W. | Working Pressure: Pw PSIG | + 12 = PSIA 438 |
| Temperature: | n = | Fpv (From Tables) | Gravity |
| T= 59 °F Fr= 1.001 | . 75 | 1.004 | 0.654 Fg = 1.237 |

| CHOKE VOLUME = Q = | С | x | P, | × | F, | x | Fo | x | Fpv |
|--------------------|---|---|----|---|----|---|----|---|-----|
|--------------------|---|---|----|---|----|---|----|---|-----|

Q = Calculated from orifice meter readings = 1165 MCF/D

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

Aof = $Q\left(\begin{array}{c} 213444 \\ 21600 \end{array}\right)$ = (1165)(9.8817) = (1165)(5.5734)

| Aof | = 6493 | MCF/D |
|-----|--------|-------|
| 701 | | |

Note: The well produced 7.7 bbls. of 37°
API gravity oil during the test
and 115.87 MCF of gas during the

test.

R. Hardy and J. Goodwin

WITNESSED BY_____

Well Test Engineer /