## EL PASO NATURAL GAS COMPANY

## OPEN FLOW TEST DATA

DATE November 29, 1973

| Operator           |                   | Lease                  |                     |  |
|--------------------|-------------------|------------------------|---------------------|--|
| El Paso Natura     | 1 Gas Company     | San Juan 27-4 Unit #70 |                     |  |
| Location           | •                 | County                 | State               |  |
| 1550/S, 990/W,     | Sec. 4, T27N, R4W | Rio Arriba             | New Mexico          |  |
| ormation           |                   | Pool                   |                     |  |
| Dakota             |                   | Basin                  |                     |  |
| Casing: Diameter   | Set At: Feet      | Tubing: Diameter       | Set At: Feet        |  |
| 4,500              | 85351             | 1 1/2"                 | 8448'               |  |
| Pay Zone: From     | То                | Total Depth:           | Shut In             |  |
| 8300               | 8478              | 8535                   | 10-25-73            |  |
| Stimulation Method |                   | Flow Through Casing    | Flow Through Tubing |  |
| Sandwater Frac     |                   | x                      |                     |  |

| <del>-Chok</del> e Size, Inches | Orifice       | -Ghoke Constant: C    |              |                                  |      |                         |
|---------------------------------|---------------|-----------------------|--------------|----------------------------------|------|-------------------------|
| 4" 2.500                        |               | 32.64                 |              | Well Tested thru 48/64 choke     |      |                         |
| Shut-In Pressure, Cas<br>2540   | ing, PSIG     | + 12 = PSIA<br>2552   | Days Shut-In | Shut-In Pressure, Tubing<br>2579 | PSIG | + 12 = PSIA<br>2591     |
| Flowing Pressure: P<br>WH 132   | PSIG<br>MR 51 | + 12 = PSIA<br>WH 144 | MR 63        | Working Pressure: Pw<br>449      | PSIG | + 12 = PSIA<br>461      |
| Temperature:<br>T= 60 °F        | Ft= 1.000     | n = .75               |              | Fpv (From Tables) 1.009          | ·    | Gravity .655 Fs = .9571 |

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

Q = Calculated from meter readings

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

Aof = Q 
$$\begin{pmatrix} -6512704 \\ 6300183 \end{pmatrix}$$
 = 1846 (1.0337)  $\cdot$  75=1846(1.0252)



Aof = 1893 MCF/D

Note: Well produced 11 bbls. of total

liquid with 6 bbls. of 60 gravity oil.

TESTED BY B.J.B. & C.R.W.

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

iam D. Welch

William D. Welch Well Test Engineer