

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 16, 1978

| | | | |
|--|------------------------------|---|------------------------------|
| Operator El Paso Natural Gas Company | | Lease Fields #7-A | |
| Location NW 34-32-11 | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Blanco | |
| Casing: Diameter 4 1/2 | Set At: Feet 5513' | Tubing: Diameter 1 1/4 | Set At: Feet 2844' |
| Pay Zone: From 2790 | To 2868 | Total Depth: 5513 PBTD 5498 | Shut In 12-30-77 |
| Stimulation Method Sandwater Frac | | Flow Through Casing XX | Flow Through Tubing |

| | | | | | |
|--|---------------------------|------------------------------------|---|--|--|
| Choke Size, Inches .750 | | Choke Constant: C 12.365 | | | |
| Shut-In Pressure, Casing, PSIG 811 | + 12 = PSIA 823 | Days Shut-In 16 | Shut-In Pressure, Tubing PSIG 810 | + 12 = PSIA 822 | |
| Flowing Pressure: P PSIG 101 | + 12 = PSIA 113 | | Working Pressure: P _w PSIG 101 | + 12 = PSIA 113 | |
| Temperature: T = 58 °F F _t = 1.002 | | n = .85 | F _{pv} (From Tables) 1.010 | Gravity .650 F _g = .9608 | |

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

$$Q = 12.365(113)(1.002)(.9608)(1.010) = \underline{\quad 1359 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{677329}{664560} \right)^n = 1359(1.0192)^{.85} = 1359(1.0163)$$

$$Aof = \underline{\quad 1381 \quad} \text{ MCF/D}$$

Note: Well blew dry gas throughout test. Well vented 169 MCF to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

