

OPEN FLOW TEST DATA

DATE October 11, 1976

| | | | |
|---|-----------------------|----------------------------------|-----------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-4 Unit #124 | |
| Location SW 8, 27N, R4W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool Tapacito | |
| Casing: Diameter 4.500 | Set At: Feet 6170' | Tubing: Diameter 1 1/4" | Set At: Feet 3657' |
| Pay Zone: From 3585' | To 3656' | Total Depth: PBT 6170 6154 | Shut In 9-21-76 |
| 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 1056 | + 12 = PSIA 1068 | Days Shut-In 20 | Shut-In Pressure, Tubing PSIG 1056 | + 12 = PSIA 1068 | |
| Flowing Pressure: P PSIG 103 | + 12 = PSIA 115 | | Working Pressure: P _w PSIG 116 | + 12 = PSIA 128 | |
| Temperature: T = 61 °F | F _t = .9990 | n = .85 | F _{pv} (From Tables) 1.011 | Gravity .670 | F _g = .9463 |

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

$$Q = 12.365 (115) (.9990) (.9463) (1.011) = \underline{1359} \text{ MCF/D}$$

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

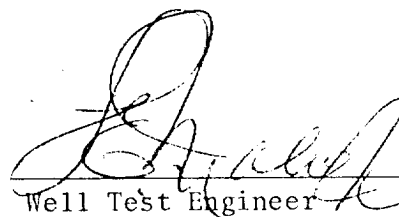
$$Aof = Q \left(\frac{1140624}{1124240} \right)^n = (1.0146)^{.85} (1359) = (1359) (1.0124)$$

$$Aof = \underline{1376} \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented to atmosphere 280 MCF/D of dry gas.

TESTED BY Hardy

WITNESSED BY _____


Well Test Engineer