

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 21, 1974

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|--|-----------------------|----------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit #183 | |
| Location 800/N, 800/W, Sec. 24, T27N, R5W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool Tapacito | |
| Casing: Diameter 2.875 | Set At: Feet 3526' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 3400' | To 3446' | Total Depth: 3526' 3515' | Shut In 5-13-74 |
| Stimulation Method Sandwater Frac | | Flow Through Casing XX | Flow Through Tubing |

| | | | | | |
|-----------------------------------|-------------------------|-----------------------------|-------------------|--|--|
| Choke Size, Inches .750 | | Choke Constant: C 12.365 | | Tubingless Completion | |
| Shut-In Pressure, Casing, 1050 | PSIG | + 12 = PSIA 1062 | Days Shut-In 8 | Shut-In Pressure, Tubing No Tubing | PSIG + 12 = PSIA -- |
| Flowing Pressure: P 103 | PSIG | + 12 = PSIA 115 | | Working Pressure: P _w Calculated | PSIG + 12 = PSIA 148 |
| Temperature: T = 58°F | F _t = 1.0019 | n = .85 | | F _{pv} (From Tables) 1.0100 | Gravity .655 F _g = .9571 |

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

$$Q = 12.365(115)(1.0019)(.9571)(1.0100) = \underline{\hspace{2cm}} 1377 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1127844}{1105940} \right)^n = 1377(1.0198)^{.85} = 1377(1.0168)$$

$$Aof = \underline{\hspace{2cm}} 1400 \text{ MCF/D}$$

Note: The well blew a light fog of water.

TESTED BY F. Johnson

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

