

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 11, 1974

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|--|-----------------------|---|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit #180 | |
| Location 1460/S, 1500/W, Sec. 17, T27N, R5W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool Tapacito | |
| Casing: Diameter 2.875 | Set At: Feet 3332' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 3218' | To 3266 | Total Depth: <u>PBTD</u> 3332' 3322' | Shut In 5-21-74 |
| 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, PSIG 820 | + 12 = PSIA 832 | Days Shut-In 21 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- | |
| Flowing Pressure: P PSIG 65 | + 12 = PSIA 77 | | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 98 | |
| Temperature: T = 65 °F | F _t = .9952 | n = .85 | F _{pv} (From Tables) 1.0090 | Gravity .655 | F _g = .9571 |

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

$$Q = 12.365(77)(.9952)(.9571)(1.0090) = \underline{\quad 915 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{692224}{682620} \right)^n = 915(1.0141)^{.85} = 915(1.0119)$$

$$Aof = \underline{\quad 926 \quad} \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY J. B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

