

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 #174 | |
| Location 1150/N, 1750/W, Sec. 7, T27N, R5W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool So. Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 3500' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 3404' | To 3428' | Total Depth: PBD 3500' 3490' | Shut In 5-30-74 |
| 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 1005 | + 12 = PSIA 1017 | Days Shut-In 12 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- | |
| Flowing Pressure: P PSIG 171 | + 12 = PSIA 183 | | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 236 | |
| Temperature: T = 67 °F | F _t = .9933 | n = .85 | F _{pv} (From Tables) 1.0170 | Gravity .655 | F _g = .9571 |

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

$$Q = 12.365(183)(.9933)(.9571)(1.0170) = \underline{\quad 2188 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1034289}{978593} \right)^n = 2188(1.0569)^{.85} = 2188(1.0482)$$

$$Aof = \underline{\quad 2293 \quad} \text{ MCF/D}$$

Note: The well blew a dry flow.

TESTED BY J. B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

