

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE January 14, 1974

| | | | |
|--|-----------------------|---------------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 28-7 Unit #170 (CH) | |
| Location 810/S, 1790/E, Sec. 9, T27N, R7W | | County Rio Arriba | State New Mexico |
| Formation Chacra | | Pool Undes | |
| Casing: Diameter 2.875 | Set At: Feet 4416' | Tubing: Diameter No Tubing | Set At: Feet |
| Pay Zone: From 4320 | To 4336 | Total Depth: 4416 | Shut In 12-18-73 |
| 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 1012 | + 12 = PSIA 1024 | Days Shut-In 27 | Shut-In Pressure, Tubing, PSIG No Tubing | + 12 = PSIA | |
| Flowing Pressure: P, PSIG 19 | + 12 = PSIA 31 | | Working Pressure: P _w , PSIG Calculated | + 12 = PSIA | 55 |
| Temperature: T = 54 °F | n = Fr = 1.0058 | | Fpv (From Tables) 1.004 | Gravity .655 | Fg = .9571 |

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365(31)(1.0058)(.9571)(1.004) = \underline{\quad 370 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1048576}{1045551} \right)^n = 490(1.0029)^{.75} = 370(1.0022)$$

$$Aof = \underline{\quad 371 \quad} \text{ MCF/D}$$

Note: Dry Flow

TESTED BY Norton

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

