

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-11-70

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|---|----------------------|-------------------------------|---------------------|
| Operator El Paso Natural Gas Co. | | Lease Hartman No. 2 | |
| Location 1160 N, 825 E, S 26, T30N, R11W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Aztec | |
| Casing: Diameter 2.875 | Set At: Feet 2584 | Tubing: Diameter no tubing | Set At: Feet |
| Pay Zone: From 2424 | To 2460 | Total Depth: 2584 | Shut In 9-10-70 |
| Stimulation Method S W F | | Flow Through Casing XX | Flow Through Tubing |

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|--|-----------------------------|------------------------------------|--|-------------|
| Choke Size, Inches .750 | Choke Constant: C 12.365 | | tubingless completion | |
| Shut-In Pressure, Casing, PSIG 409 | + 12 = PSIA 421 | Days Shut-In 7 | Shut-In Pressure, Tubing PSIG no tubing | + 12 = PSIA |
| Flowing Pressure: P PSIG 119 | + 12 = PSIA 131 | Working Pressure: Pw PSIG Calc. | + 12 = PSIA 159 | |
| Temperature: T = 66 °F F _r = .9924 | n = .85 | Fpv (From Tables) 1.011 | Gravity .650 | Fg = .9608 |

CHOKE VOLUME = Q = C x P_i x F_r x F_g x F_{pv}

Q = 12.365 x 131 x .9924 x .9608 x 1.011 = 1561 MCF/D

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

Note: blew light fog of water throughout test.

Aof = $\left(\frac{177241}{151960} \right)^n = (1.1663)^{.85} (1561) = 1.1397 \times 1561$

Aof = 1779 MCF/D

TESTED BY Jesse B Goodwin

WITNESSED BY _____



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