

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-23-74

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|--|----------------------|----------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit #176 | |
| Location 1170/N, 1800/E, Sec 8, T-27-N, R-5-W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool Tapacito | |
| Casing: Diameter 2.875 | Set At: Feet 3558 | Tubing: Diameter No tubing | Set At: Feet --- |
| Pay Zone: From 3436 | To 3484 | Total Depth: PBTD 3565 3547 | Shut In 6-11-74 |
| 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 1082 | + 12 = PSIA 1094 | 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 = 66 °F | F _t = .9943 | n = .85 | F _{pv} (From Tables) 1.0170 | Gravity .655 F _g = .9571 |

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

Q = 12.365(183) (.9943) (.9571) (1.0170) = 2190 MCF/D

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

Aof = Q $\left(\frac{1196836}{1141140} \right)^n =$

2190(1.0488)^{.85} = 2190(1.0413)

Aof = 2281 MCF/D

NOTE: The well produced a dry gas flow.

TESTED BY Carl Rhames

WITNESSED BY _____

Loren W Fothergill

Loren W. Fothergill
Well Test Engineer
7-24-74

