

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1975

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|--|----------------------|---------------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 28-7 Unit #207 (PC) | |
| Location 1550/S, 975/W, Sec 21, T 27 N, R 7 W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool So. Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 3067 | Tubing: Diameter No tubing | Set At: Feet --- |
| Pay Zone: From 2916 | To 2954 | Total Depth: PBT 3067 3057 | Shut In 7-22-75 |
| Stimulation Method Sand Water Frac | | Flow Through Casing XX | Flow Through Tubing |

| | | | | |
|---------------------------------------|-----------------------------|--------------------|---|--|
| Choke Size, Inches 0.75 | Choke Constant: C 12.365 | | Tubingless Completion | |
| Shut-In Pressure, Casing, PSIG 860 | + 12 = PSIA 872 | Days Shut-In 15 | Shut-In Pressure, Tubing PSIG No tubing | + 12 = PSIA --- |
| Flowing Pressure: P PSIG 86 | + 12 = PSIA 98 | | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 122 |
| Temperature: T = 70 °F | n = .85 | | F _{pv} (From Tables) 1.008 | Gravity .660 F _g = .9535 |

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

$$Q = (12.365)(98)(.9905)(.9535)(1.008) = \underline{1154} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{760384}{745500} \right)^n = (1154)(1.0200)^{.85} = (1154)(1.0170)$$

$$Aof = \underline{1174} \text{ MCF/D}$$

Note: Well blew 180.98 MCF dry gas to atmosphere during test.

TESTED BY Norton

WITNESSED BY _____

Charles W. Davis
 Well Test Engineer