

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 26, 1974

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|--|-----------------------|---------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Howell C #5 | |
| Location 1000/S, 800/W, Sec. 17, T30/N, R8W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Undes | |
| Casing: Diameter 2.875 | Set At: Feet 2664' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 2568' | To 2626' | Total Depth: PBT 2664' 2653' | Shut In 8-15-74 |
| Stimulation Method Sandwater Frac | | 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 992 | + 12 = PSIA 1004 | Days Shut-In 11 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- | |
| Flowing Pressure: P PSIG 69 | + 12 = PSIA 81 | | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 102 | |
| Temperature: T = 62 °F | n = F _t = 0.9981 | | F _{pv} (From Tables) 1.099 | Gravity .665 | F _g = 0.9498 |

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

$$Q = 12.365(81)(0.9981)(0.9498)(1.0990) = \underline{1043} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1008016}{997612} \right)^n = 1043(1.0104)^{.85} = 1043(1.0089)$$

$$Aof = \underline{1053} \text{ MCF/D}$$

Note: The well flowed dry gas.

TESTED BY C. Rhames

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

