

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 26, 1973

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|--|----------------------|-------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Grambling "A" No. 6 | |
| Location 1710'N, 800'E, Section 21, T28N, R8W | | County San Juan | State New Mexico |
| Formation Pictured Cliff | | Pool South Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 2379 | Tubing: Diameter No Tubing | Set At: Feet |
| Pay Zone: From 2240 | To 2284 | Total Depth: 2379 | Shut In 4-16-73 |
| Stimulation Method SWF | | 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 952 | + 12 = PSIA 964 | Days Shut-In 10 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA | |
| Flowing Pressure: P PSIG 114 | + 12 = PSIA 126 | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 152 | | |
| Temperature: T = 61 °F | F _t = .9990 | n = .85 | F _{pv} (From Tables) 1.011 | Gravity .645 | F _g = .9645 |

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

$$Q = (12.365) (126) (.9990) (.9645) (1.011) = 1518 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{929296}{906192} \right)^n = 1518 (1.0255)^{.85} = 1518 (1.0216)$$

$$Aof = 1552 \text{ MCF/D}$$

TESTED BY W. D. Welch

WITNESSED BY _____

William D. Welch
William D. Welch, Well Test Engineer

