

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 8, 1974

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|---|-----------------------|----------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Sullivan #3 | |
| Location 990/N, 1840/E, Sec. 7, T30N, R10W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 2956' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 2764 | To 2788 | Total Depth: PBTD 2956' 2946' | Shut In 4-17-74 |
| 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 762 | + 12 = PSIA 774 | Days Shut-In 22 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- |
| Flowing Pressure: P PSIG 29 | + 12 = PSIA 41 | | Working Pressure: Pw PSIG Calculated | + 12 = PSIA 51 |
| Temperature: T = 62 °F | n = .85 | | Fpv (From Tables) 1.0030 | Gravity .635 Fg = .9721 |

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

$$Q = 12.365(41)(.9981)(.9721)(1.0030) = \underline{\quad 493 \quad} \text{ MCF/D}$$

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

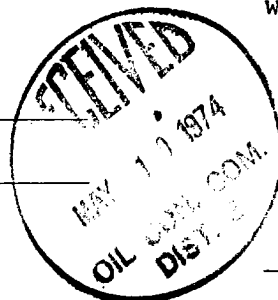
$$Aof = Q \left(\frac{599076}{596475} \right)^n = 493(1.0044)^{.85} = 493(1.0037)$$

$$Aof = \underline{\quad 495 \quad} \text{ MCF/D}$$

Note: The well produced a very light fog of water and distillate.

TESTED BY C. R. Wagner

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer

