

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 11, 1974

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|---|-----------------------|----------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-5 Unit #186 | |
| Location 1140/N, 800/W, Sec. 18, T27N, R5W | | County Rio Arriba | State New Mexico |
| Formation Pictured Cliffs | | Pool So. Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 3322' | Tubing: Diameter No Tubing | Set At: Feet |
| Pay Zone: From 3206' | To 3266' | Total Depth: PBT 3322' 3312' | Shut In 5-30-74 |
| 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 655 | + 12 = PSIA 667 | Days Shut-In 12 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- | |
| Flowing Pressure: P PSIG 40 | + 12 = PSIA 52 | | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 66 | |
| Temperature: T = 67 °F | n = .85 | | F _{pv} (From Tables) 1.0040 | Gravity .655 | F _g = .9571 |

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

$$Q = 12.365(52)(.9933)(.9571)(1.0040) = \underline{\quad 614 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{444889}{440533} \right)^n = 614(1.0099)^{.85} = 614(1.0084)$$

$$Aof = \underline{\quad 619 \quad} \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY J. B. Goodwin

WITNESSED BY _____



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer