

OPEN FLOW TEST DATA

Date: April 3, 1965

Operator: Union Texas Petroleum Company

Lease: Culpepper Martin # 4

Location: SE/SW 6-31N-12W

County: San Juan State: N. M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 - 15.5 " Set @ 6918 ' Tubing: 1 1/2 " Set @ 4787

Pay Zone: 4534 ' To: 4777 ' Total Depth: FB 6900

Choke Size: 3/4" THC " Choke Constant = C = 12.3650

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 971 psig / 12 = 983 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 970 psig / 12 = 982 psia

Flowing Pressure: P : 377 psig / 12 = 382 psia

Working Pressure: P_w : 449 psig / 12 = 461 psia

Temperature: T : 60 °F / 460 = 520 °Absolute

F_{pv} (from tables) : 1.039 Gravity .650 (E) n 85

$$\text{Choke Volume} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 389 \times 1.0 \times .9608 \times 1.039 = \underline{4802} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q \quad 4802 \quad \left[\begin{array}{c} P_c^2 \\ P_c^2 - P_w^2 \\ 983^2 - 461^2 \end{array} \right]^n \quad \begin{array}{l} \text{Performations} \\ 4772-77 \\ 4748-52 \\ 4730-34 \\ 4698-03 \\ 4588-07 \\ 4534-68 \end{array}$$

$$A_{of} = \left[\begin{array}{c} 966.289 \\ 753.768 \end{array} \right]^n = 1.2819 = 1.2047 \times 4802$$

$$A_{of} = \underline{5785} \text{ MCF/D}$$

Tested By: B. H. Keyes

Witnessed By: _____

GEOELECTRIC, INC. - OIL CON. COM.



B. H. Keyes