OPEN FLOW TEST DATA

Date: 4-12-62

Operator: [illegible]

Lease: Duff Fed. #2

Location: SE¼ Sec 27 - TWP 24N-R1W

County: R.A. State: N.M.

Formation: DC

Pool: _____

Casing: 4½ " Set @ 3025 ' Tubing: 1¼ " Set @ 3010

Pay Zone: 2996 ' To: 3016 ' Total Depth: 3035

Choke Size: 3/4 " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing ____

Shut-in Pressure Casing: 855 psig + 12 = 867 psia (Shut-in ____ days)

Shut-in Pressure Tubing: 855 psig + 12 = 867 psia

Flowing Pressure: P : 172 psig + 12 = 184 psia

Working Pressure: P_w : 174 psig + 12 = 186 psia

Temperature: T : 51 °F + 460 = 511 °Absolute

F_{pv} (from tables) : 1.019 Gravity .660 Est. n 85

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

Q = = 2254 MCF/D

$$12.365 \times 186 \times 1.0088 \times .9535 \times 1.019$$

$$\text{Open Flow - Aof} = Q \left(\frac{P_c^2 \quad 867}{P_c^2 - P_w^2 \quad 184} \right)^n$$

$$\text{Aof} = \left(\frac{751,689}{717,833} \right)^n = 1.0472 = 1.0399$$

Aof = 2344 MCF/D

RECEIVED JUL 9 1962 OIL CON. COM. DIST. 3

Tested By: _____

Witnessed By: _____

Jack A. Cole