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: Dakota Pool: Basin Dakota

Casing: 5½ - 15.5 " Set @ 6918 ' Tubing: 2-1/16 " Set @ 6727

Pay Zone: 6723 ' To: 6884 ' Total Depth: PB 6900

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing x

Shut-in Pressure Casing: _____ psig + 12 = _____ psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1940 psig + 12 = 1952 psia

Flowing Pressure: P : _____ psig + 12 = _____ psia

Working Pressure: P_w : 649 psig + 12 = 661 psia **Calculated**

Temperature: T : 60 °F + 460 = _____ °Absolute

F_{pv} (from tables) : 1.023 Gravity .650 n .75

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

Q = 12.3650x 233x 1 x .9608 x 1.023 = 2832 MCF/D

Perforations
6874-84
6818-32
6790-06
6738-47
6723-28

Open Flow - Aof = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ $\frac{3810.304}{3373.597}$

Aof = $\left[\frac{1.1294}{}\right]^n$ = 1.0955 x 2832

Aof = 3102 MCF/D

Tested By: B. H. Keyes

Witnessed By: _____

GEOLECTRIC, INC.

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APR 12 1965
OIL CON. COM.
DIST. 3