

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: 5 1/2 - 15.5 " Set @ 6918

Tubing: 2-1/16 " Set @ 6727

Pay Zone: 6723 ' To: 6884 ' Total Depth: PR 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

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

$$Q = 12.3650 \times 233 \times 1 \times .9608 \times 1.023 = \underline{2832} \text{ MCF/D}$$

Perforations

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

$$\text{Open Flow} - A_{cf} = Q$$

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.5n} = \left[\frac{3810.304}{3810.304} \right]^{.5n} = 1.1294$$

$$A_{of} =$$

$$= 1.0955 \times 2832$$

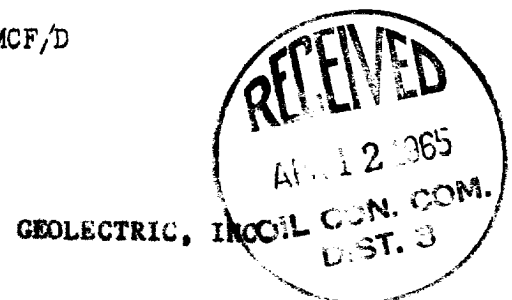
$$A_{of} =$$

3102

MCF/D

Tested By: E. H. Keyes

Witnessed By: _____



Baldy