

OPEN FLOW TEST DATA

Date: 4-18-63

Operator: E. L. FUNDINGSLAND

Lease: Sumner D. Farnham

Location: NW/4 19-25N-7W

County: San Antonio State: N.M.

Formation: Dakota

Pool: San Antonio

Casing: 4 1/2 " Set @ 1975

Tubing: 2 3/4 " Set @ 1980

Pay Zone: 6913 to 6918

To: 6924 to 6930

Total Depth: 7100

Choke Size: 3/4 THG

Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2252 psig / 12 = 2254 psia (Shut-in 0 days)

Shut-in Pressure Tubing: 1612 psig / 12 = 1624 psia

Flowing Pressure: P : 135 psig / 12 = 147 psia

Working Pressure: P_w : 417 psig / 12 = 429 psia

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

F_{pv} (from tables) : 1.013 Gravity 0.620 n 75

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

$$12.365 \times 147 \times .9924 \times .9837 \times 1.013$$

Q =

$$= 1732 \text{ MCF/D}$$

Open Flow - Aof = Q

Aof =

$$\left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^n$$

$$= 1.0750 = 1.0557$$

Aof =

$$1000 \text{ MCF/D}$$

Tested By: D. H. Stange

Witnessed By: _____

GELECTRIC INC.