

OPEN FLOW TEST DATA

Date: 4-3-62

Operator: Tennessee

Lease: Watson #2

Location: SW 1/4, Sec. 22-27N-12W

County: San Juan State: N. Mex.

Formation: Dakota

Pool: Basin Dakota

Casing: 4 1/2 " Set @ _____

Tubing: 2 " Set @ 5911

Pay Zone: 5941 ' To: 5951 ' Total Depth: _____

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

Stimulation Method: _____ Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 1042 psig / 12 = 1054 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1989 psig / 12 = 2001 psia

Flowing Pressure: P : 151 psig / 12 = 163 psia

Working Pressure: P_w : 561 psig / 12 = 573 psia

Temperature: T : 62 °F / 460 = 522 °Absolute

F_{pv} (from tables) : 1.018 Gravity .670 est. n 75

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

$$12.365 \times 163 \times .9981 \times .9463 \times 1.018 = 1938 \text{ MCF/D}$$

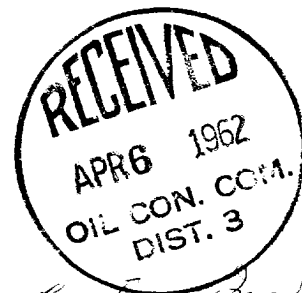
Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/n} = (1.0893)^{75} 1.0662$$

$$Aof = 2.066 \text{ MCF/D}$$

Tested By: D. W. Stiles

Witnessed By: _____



James E. Stiles
12-11-62