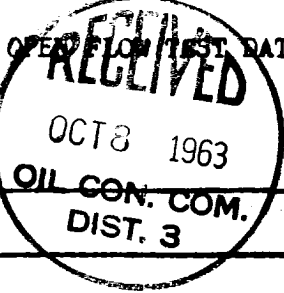


OPEN FLOW TEST DATA



Operator: SHAR ALAN Date: 8/6/63
 Location: NE/4 SEC 10 23N 2W Lease: JICARILLA J # 1
 Formation: PC County: RA State: NM
 Pool: UNDESIGNATED
 Casing: 4 1/2 " Set @ 2996 ' Tubing: 2 3/8 " Set @ 2976
 Pay Zone: 2944 ' To: 2952 ' Total Depth: 3000
2956 ' 2968 ' 2974 ' 2976 '
 Choke Size: 3/4 THG " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing _____ Tubing x
 Shut-in Pressure Casing: 937 psig / 12 = 949 psia (Shut-in 8 days)
 Shut-in Pressure Tubing: 937 psig / 12 = 949 psia
 Flowing Pressure: P : 278 psig / 12 = 290 psia
 Working Pressure: P_w : 603 psig / 12 = 615 psia
 Temperature: T : 44 °F / 460 = 504 °Absolute
 F_{pv} (from tables) : 1.028 Gravity Est. 610 n 85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}
 12.365 x 290 x 1.028 x .9913 x 1.028
 Q = _____ = 3713 MCF/D

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{900,601} \right]^n = 1.7248 - 1.5887$$

$$Aof = \frac{522,376}{5896} \text{ MCF/D}$$

Tested By: _____
 Witnessed By: _____

GEOMETRIC INC.