

OPEN FLOW TEST DATA

Date: 4-14-57
 Operator: RAC Drilling Company Lease: RAC 31
 Location: S4/4 22-27N-8W County: San Juan State: NM
 Formation: Pictured Cliffs Pool: So Blanco
 Casing: 5 1/2 - 14# " Set @ 2224 ' Tubing: 1 1/2 " Set @ '
 Pay Zone: ' To: ' Total Depth: 2225 '
 Choke Size: .750 " Choke Constant = C = 14.1605
 Stimulation Method: Frac Flow Through: Casing - Tubing
 Shut-In Pressure Casing: 852 psig / 12 = 864 psia (Shut-in 8 days)
 Shut-In Pressure Tubing: 852 psig / 12 = 864 psia
 Flowing Pressure: P : 613 psig / 12 = 625 psia
 Working Pressure: P_w : 613 psig / 12 = 625 psia
 Temperature: T : 56 °F / 460 = 516 ° Absolute
 F_{pv} (from tables) : 1.057 Gravity .640 (est) n .85

$$\text{Choke Volume} = Q = \frac{C \times P_t \times F_t \times F_g \times F_{pv}}{1.057} = \frac{14.1605 \times 625 \times 1.0039 \times .9682 \times .85}{1.057} = \underline{9093} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = \frac{\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\left[\frac{864^2}{864 - 625} \right]^n} = \frac{746,496}{355,871} = (2.0977) .85$$

$$Aof = \underline{17,082} \text{ MCF/D}$$

Tested By: Geoelectric, Inc., Agent
 Witnessed By: Tom A. Grant, EPNG



W. J. McConathy
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