

# OPEN FLOW TEST DATA

Date: 3/20/57

Operator: R&G Drilling Company Lease: ~~144~~ #29 - 777 arbor

Location: NW/4 22-27N-8W County: San Juan State: NM

Formation: Pictured Cliffs Pool: Se Blanco

Casing: 5 1/2" " Set @ 2262 ' Tubing: 2" " Set @ 2187 '   
 Pay Zone: \_\_\_\_\_ ' To: \_\_\_\_\_ ' Total Depth: 2263 '   
 Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Frac Flow Through: Casing \_\_\_\_\_ Tubing X

Shut-In Pressure Casing: Packer - 2090 psig / 12 = \_\_\_\_\_ psia (Shut-in 30 days)   
 Shut-In Pressure Tubing: 868 psig / 12 = 880 psia   
 Flowing Pressure: P : 348 psig / 12 = 360 psia   
 Working Pressure: P<sub>w</sub> : \_\_\_\_\_ psig / 12 = 597 (calc) psia   
 Temperature: T : 56 °F / 460 = 516 ° Absolute   
 F<sub>pv</sub> (from tables) : \_\_\_\_\_ Gravity .640 (est) n .85

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

$$= \frac{14.1605 \times 360 \times 1.0039 \times .9682 \times 1.037}{1.037} = \underline{5138} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$Aof = \left[ \frac{868^{.2}}{868^2 - 597^2} \right]^n = \frac{753.424}{397,015} = (1.8977) .85$$

$$Aof = \underline{8866} \text{ MCF/D}$$

Tested By: Geoelectric, Inc. - Agent

Witnessed By: Tom B. Grant - EPAC



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