

OPEN FLOW TEST DATA

Date: 5/23/57

Operator: R & G Drilling Co Lease: RAG Graham #32

Location: SE/4 4-27N-8W County: RA State: N.M.

Formation: Pictured Cliffs Pool: So Blanco

Casing: \_\_\_\_\_ " Set @ \_\_\_\_\_ ' Tubing: \_\_\_\_\_ " Set @ \_\_\_\_\_ '

Pay Zone: \_\_\_\_\_ ' To: \_\_\_\_\_ ' Total Depth: \_\_\_\_\_ '

Choke Size: .750 " Choke Constant = C = 14.1605

Stimulation Method: Free Flow Through: Casing I Tubing \_\_\_\_\_

Shut-In Pressure Casing: 851 psig / 12 = 873 psia (Shut-in 11 days)

Shut-In Pressure Tubing: 851 psig / 12 = 873 psia

Flowing Pressure: P : 221 psig / 12 = 233 psia

Working Pressure: P<sub>w</sub> : 257 psig / 12 = 269 psia

Temperature: T : 64 °F / 460 = 524 ° Absolute

F<sub>pv</sub> (from tables) : 1.023 Gravity .640(est) n .85

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

$$Q = \frac{14.1605 \times 233 \times .9962 \times 1.023}{.9682 \times 1.023} = \underline{3256} \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = \frac{3256 \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n}{\left[ \frac{873^2}{873^2 - 269^2} \right]^n} = \frac{(762.129)^{.85}}{(689.768)^{.85}} = (1.1049)^{.85}$$

$$Aof = \underline{3530} \text{ MCF/D}$$

Tested By: W. J. McConathy

Witnessed By: \_\_\_\_\_



Coelectric, Inc. - Agent