

OPEN FLOW TEST DATA

Date: Aug. 28, 1962

Operator: Shar-Alan

Lease: Harrington State #2

Location: SE 32 - 24 N - 1 W

County: Rio Arriba State: N. Mex.

Formation: Pictured Cliffs

Pool: S. Blanco

Casing: 4 1/2 " Set $\bullet$ 3175 ' Tubing: 1 " Set $\bullet$ 3120

Pay Zone: 3100 ' To: 3120 ' Total Depth: 3194

Choke Size: 3/4 BM " Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing _____ Tubing _____

Shut-in Pressure Casing: 660 psig / 12 = 672 psia (Shut-in 8 days)

Shut-in Pressure Tubing: _____ psig / 12 = _____ psia

Flowing Pressure: P : 110 psig / 12 = 122 psia

Working Pressure: P_w : _____ psig / 12 = _____ psia

Temperature: T : 52 °F / 460 = 512 °Absolute

F_{pv} (from tables) : 1.012 Gravity .620 Est n 85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

Q = 14.1605 x 122 x 1.0078 x .9837 x 1.012 = 1734 MCF/D

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{436,700} \right]^n = 1.0289$$

Aof = 1784 MCF/D

Tested By: D. W. Stiles

Witnessed By: _____

GeoElectric, Inc.

B. H. Keyes