

OPEN FLOW TEST DATA

*Copy to file
John Longfellow*

Date: August 28, 1962
 Operator: Shar-Alan Lease: Crane #7
 Location: NW 29 - 24 N - 1 W County Rio Arriba State: N. Mex.
 Formation: Pictured Cliffs Pool: S. Blanco
 Casing: 4 1/2 " Set @ 3488 ' Tubing: 1 " Set @ 3420
 Pay Zone: 3410 ' To: 3434 ' Total Depth: 3490
 Choke Size: 3/4 THC " Choke Constant = C = 12.365

Stimulation Method: _____ Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 730 psig / 12 = 742 psia (Shut-in 8 days)

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

Flowing Pressure: P : 390 psig / 12 = 402 psia

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

Temperature: T : 62 °F / 460 = 522 °Absolute

F_{pv} (from tables) : 1.037 Gravity .620 Est n 85

Choke Volume = Q = C x P_t x P_t x P_g x F_{pv}

12.365 x 402 ^Q x .9981 x .9837 x 1.037 = 5062 MCF/D

$$\text{Open Flow - } A_{of} = Q = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{1/2} \times \left[\frac{742^2 - 402^2}{742^2} \right]^{1/2} \times 5062$$

$$A_{of} = \left[\frac{550,564}{388,960} \right]^{1/2} = 1.3436$$

A_{of} = 6801 MCF/D

Tested By: D. W. Stiles

Witnessed By: _____

GeoElectric, Inc.

[Signature]