

OPEN FLOW TEST DATA

Date: 12-14-79

Operator: William C. Russell Lease: Hammond 92

Location: 25-27N-8. County: San Juan State: NM

Formation: Chacra Pool: Largo

Casing: 4 1/2 " Set @ 3282 ' Tubing: 1 1/2 " Set @ 3230

Pay Zone: 3104 ' To: 3248 ' Total Depth: 3300

Cnoke Size: 3/4 T & C " Choke Constant = C = 12.365

Stimulation Method: SWF Flow Through: Casing Tubing X

Shut-in Pressure Casing: 1000 psig / 12 = 1012 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1000 psig / 12 = 1012 psia

Flowing Pressure: P : 105 psig / 12 = 117 psia

Working Pressure: P_w : 450 psig / 12 = 462 psia

Temperature: T : 60 °F / 460 = 520 °Absolute

F_{pv} (from tables) : 1.013 Gravity est. 670 n 75

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

$$12.365 \times 117 \times 1.0000 \times .9463 \times 1.013 = \underline{1387} \text{ MCF/D}$$

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

$$\text{Aof} = \left[\frac{P_c^2 - P_w^2}{1012^2 - 462^2} \right]^n = 1.2633 - 1.1915$$

$$\text{Aof} = \underline{1652} \text{ MCF/D}$$

Tested By: R. Dintelmann

Witnessed By: W. Russell

M.C. Russell ACCEPTED FOR RECORD
DEC 27 '79

FARMINGTON DISTRICT.
BY HS