

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 29, 1962

Operator El Paso Natural Gas Company	Lease Rincon No. 177
Location 1650'S, 790'W, Sec. 13, T-27-N, R-7-W	County Rio Arriba State New Mexico
Formation Dakota	Pool Basin
Casing Diameter 4.5	Tubing Diameter 2.375
Set At: Feet 7778	Set At: Feet 7684
Play Zone: From 7526	Total Depth: 7780
Stimulation Method Sand Water Frac.	Flow Through Casing 8-18-62
	Flow Through Tubing X

Choke Size, inches .750	Choke Constant: C 12.365
Shut-In Pressure, Casing, PSIG 2503	Days Shut-In 11
Flowing Pressure: P, PSIG 288	Shut-In Pressure, Tubing, PSIG 2568
Temperature, °F 77	Working Pressure: Pw, PSIG 1029
Fr .9840	Fpv (From Tables) 1.028
Fg .75	Gravity .670
	Fg .9463

CHOKE VOLUME $Q = C \times P_i \times F_i \times F_g \times F_{pv}$

$$Q = (12.365)(300)(.9840)(.9463)(1.028) = 3551$$

MCF D

OPEN FLOW $A_{of} = Q \left(\frac{P_c^2}{P_e^2 - P_w^2} \right)^n$

$$A_{of} = \left(\frac{6,656,400}{5,572,719} \right)^n (1.1944)^{.78} (3551) = (1.1426)(3551) =$$

$$A_{of} = 4057 \text{ MCF D}$$

NOTE: After 5 min. unloaded slug of fluid then fair mist for rest of test (water and dist).

D. E. Mortensen

Calculated by Jesse B. Goodwin

Checked by Tom B. Grant



Lewis D. Galloway
Lewis D. Galloway