

OPEN FLOW TEST DATA

Date: April 27, 1956
 Operator: El Paso Natural Gas Company Lease: Rincon Unit # 82
 Location: 1030'S, 810'W, Sec. 23-27-6 County: Rio Arriba State: N.M.
 Formation: Mesa Verde Pool: Blanco Mesa Verde
 Casing: 5 1/2 " Set @ 5580 ' Tubing: 2 " Set @ 5496 '
 Pay Zone: 4860 ' To: 5502 ' Total Depth: 5580 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing x
 Shut-In Pressure Casing: 1069 psig / 12 = 1081 psia (Shut-in 7 days)
 Shut-In Pressure Tubing: 1068 psig / 12 = 1080 psia
 Flowing Pressure: P : 353 psig / 12 = 365 psia
 Working Pressure: P_w : 795 psig / 12 = 807 psia
 Temperature: T : 65 °F / 460 = 525 ° Absolute
 F_{pv} (from tables) : 1.040 Gravity est. 0.680 n .75

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

$$Q = 14.1605 \times 365 \times .9952 \times .9776 \times \frac{1.040}{1.040} = 5230 \text{ MCF/D}$$

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

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = Q (2.2589)^{.75} = Q (1.842)$$

$$\left[\frac{1,168,561}{517,312} \right]^n$$

$$Aof = 9634 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: Kenneth McBride



Lewis D. Galloway
L. D. Galloway