

OPEN FLOW TEST DATA

Date: April 19, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 28-7 # 48

Location: 1600'S, 800'W, Sec. 21, T28N, R7W

County: Rio Arriba State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set @ 5065 '

Tubing: 2 " Set @ 4919 '

Pay Zone: 4282 ' To: 4874 '

Total Depth: 5050 4900 '

Choke Size: 3/4 " Choke Constant = C = 14,1605

Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1027 psig / 12 = 1039 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 1020 psig / 12 = 1032 psia

Flowing Pressure: P : 358 psig / 12 = 370 psia

Working Pressure: P_w : 801 psig / 12 = 813 psia

Temperature: T : 67 °F / 460 = 527 ° Absolute

F_{pv} (from tables) : 1.042 Gravity .70 est. n .75

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

$$Q = 14,1605 \times 370 \times .9258 \times .9933 \times \frac{1}{1.042} = 5020 \text{ MCF/D}$$

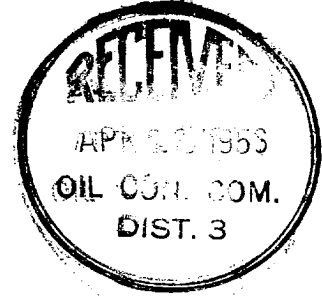
Open Flow = Aof = Q

$$Aof = 5020 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = Q(2.5791)^{.75} = (2.035) 5020$$

Aof = 10,216 MCF/D

Tested By: D. C. Adams

Witnessed By: _____



By: Tom Grant

L. D. Galloway
L. D. Galloway