

OPEN FLOW TEST DATA

Date: June 6, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 28-7 Unit # 57

Location: 1840'N, 1460'E, Sec. 30-28-7

County: Rio Arriba State: N.M.

Formation: Mesa Verde

Pool: Blanco

Casing: 5 1/2 " Set: 4895 ' "

Tubing: 2 " Set: 4823 ' "

Pay Zone: 4226 ' To: 4820 ' "

Total Depth: 4895 e/o - 4850 ' "

Choke Size: 3/4 " "

Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1099 psig / 12 = 1111 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 1094 psig / 12 = 1106 psia

Flowing Pressure: P : 357 psig / 12 = 369 psia

Working Pressure: P_w : 760 psig / 12 = 772 psia

Temperature: T : 79 °F / 460 = 539 ° Absolute

γ_g (from tables) : 1.038 Gravity 0.695 est. n 0.750

$$\text{Choke Volume} = C \times P_t \times P_t \times P_g \times P_{pv}$$

$$= 14.1605 \times 369 \times .9822 \times .9292 \times \frac{1}{1.038} = \underline{4950} \text{ MCF/D}$$

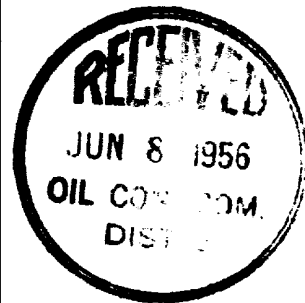
$$\text{Open Flow} = \text{Qof} = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

$$\text{Qof} = 4950 \left[\frac{1,234,321}{638,337} \right]^n = (1.9337)^{.75} \times Q = 1.6405(Q)$$

$$\text{Qof} = \underline{8,120} \text{ MCF/D}$$

Tested by: D. C. Adams

Witnessed by: _____



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