

OPEN FLOW TEST DATA

Date: July 11, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 30-4 # 11

Location: 1650'S, 1840'E, Sec. 8-30-4

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: East Blanco Pictured Cliff

Casing: 5½ " Set @ 4384 '

Tubing: 2 " Set @ 4288 '

Pay Zone: 4140 ' To: 4336 '

Total Depth: 4384 - c/o - 4350 '

Choke Size: .750 "

Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1128 psig / 12 = 1140 psia (Shut-in 14 days)

Shut-In Pressure Tubing: 1127 psig / 12 = 1139 psia

Flowing Pressure: P : 164 psig / 12 = 176 psia

Working Pressure: P_w : 416 psig / 12 = 428 psia

Temperature: T : 81 °F / 460 = 541 ° Absolute

F_{pv} (from tables) : 1.012 Gravity .597 n .85

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

$$= 14.1605 \times 176 \times .9804 \times \frac{1.004}{1.012} \times 1.012 = 2,483 \text{ MCF/D}$$

Open Flow = Aof = Q

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

Aof = 2483

$$\left[\frac{1,299,600}{1,116,416} \right]^n$$

$$= (1.164)^{.85} \times 2483 = 1.1378 \times 2483$$

Aof =

2,825

MCF/D

Tested By: K. C. McBride and R. A. Ullrich

Witnessed By: _____



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