

OPEN FLOW TEST DATA

Date: June 25, 1956

Operator: El Paso Natural Gas Company

Lease: Lackey # 6-B

Location: 990'N, 560'W, Sec. 21-28-9

County: San Juan State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set @ 2353 '

Tubing: 1 1/2 " Set @ 2266 '

Pay Zone: 2273 ' To: 2310 '

Total Depth: 2320 - c/o - 2320 '

Choke Size: .750 "

Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 721 psig / 12 = 733 psia (Shut-in 15 days)

Shut-In Pressure Tubing: 721 psig / 12 = 733 psia

Flowing Pressure: P : 186 psig / 12 = 198 psia

Working Pressure: P_w : 203 psig / 12 = 215 psia

Temperature: T : 76 °F / 1.60 = 536 ° Absolute

F_{pv} (from tables) : 1.021 Gravity .710 n .85

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

$$Q = \frac{14.1605 \times 198 \times .9850 \times .9193}{1.021} = 2592 \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 2592

$$\left[\frac{537,289}{491,064} \right]^n$$

$$= (1.094)^{.85} 2592 = 1.0794 \times 2592$$

Aof =

$$2,798 \text{ MCF/D}$$

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

Witnessed By: _____



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