

OPEN FLOW TEST DATA

Date: May 4, 1956

Operator: El Paso Natural Gas Company Lease: Jicarilla # 2-C

Location: 990'S, 835'W, Sec. 15-25-4 County: Rio Arriba State: N.M.

Formation: Pictured Cliffs Pool: Wildcat

Casing: 5 1/2 " Set @ 3537 ' Tubing: 1 3/4 " Set @ 3484 ' ,

Pay Zone: 3476 ' To: 3508 ' Total Depth: 3537 c/o - 3520' ,

Choke Size: 3/4 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 944 psig / 12 = 956 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 944 psig / 12 = 956 psia

Flowing Pressure: P : 72 psig / 12 = 84 psia

Working Pressure: P_w : 75 psig / 12 = 87 psia

Temperature: T : 76 °F / 460 = 536 ° Absolute

F_{pv} (from tables) : 1.011 (est) Gravity 0.675 (est) n 0.85

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

$$= 14.1605 \times 84 \times .9850 \times .9427 \times \frac{1}{1.008} = 1113 \text{ MCF/D}$$

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

$$Aof = 1113 \left[\frac{913,936}{906,367} \right]^n = (1.0084)^{.85} = 1.00714 (Q)$$

$$Aof = 1121 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: H. L. Kendrick



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