

OPEN FLOW TEST DATA

Date: July 16, 1956

Operator: El Paso Natural Gas Company

Lease: Lindrith Unit # 5

Location: 1650'S, 890'E, Sec. 19-24-2

County: Rio Arriba State: N.M.

Formation: Pictured Cliff

Pool: Wildcat

Casing: 5 1/2 " Set 3111

Tubing: 1 1/4 " Set 3024

Pay Zone: 3030 To: 3060

Total Depth: 3111 - c/o - 3070

Choke Size: 3/4

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing X Tubing

Shut-In Pressure Casing: 970 psig / 12 = 982 psia (Shut-in 14)

Shut-In Pressure Tubing: 970 psig / 12 = 982 psia

Flowing Pressure: P : 171 psig / 12 = 183 psia

Working Pressure: P_w : 178 psig / 12 = 190 psia

Temperature: T : 70 °F / 460 = 530 ° absolute

F_{pv} (from tables) : 1.016 Gravity 0.65 est. n 0.85

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

$$= 14.1605 \times 1.83 \times .9608 \times .9905 \times \frac{1}{1.016} = 2505 \text{ MCF/D}$$

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

$$Aof = 2505 \left[\frac{964,324}{928,224} \right]^n = (1.0388)^{.85} Q = 1.0328 (Q)$$

$$Aof = 2,587 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: Dick Ullrich



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