

DUAL COMPLETION

OPEN FLOW TEST DATA

Date: July 16, 1956Operator: El Paso Natural Gas CompanyLease: Heaton # 6Location: 840'N, 1630'E, Sec. 33-31-11County: San Juan State: N.M.Formation: Pictured CliffPool: Wildcat - Pictured CliffCasing: 5 1/2" Liner 4434 - 4944Set: 4532Tubing: 2 " Set: 4755Pay Zone: 2386 To: 2428Total Depth: Packer at 2501Choke Size: .750Choke Constant = C = 14.1605Stimulation Method: Sand Water Frac. Flow Through: Casing X TubingShut-In Pressure Casing: 639 psig / 12 = 651 psia (Shut-in 9 days)Shut-In Pressure Tubing: psig / 12 = psiaFlowing Pressure: P : 216 psig / 12 = 228 psiaWorking Pressure: P_w : Calculated psig / 12 = 229 psiaTemperature: T : 85 °F / 460 = 545 ° AbsoluteF_{pv} (from tables) : 1.020 Gravity .665 n .85Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = 14.1605 \times 228 \times .9768 \times .9498 \times \frac{1.020}{1.020} = 3055 \text{ MCF/D}$$

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

$$A_{of} = 3055$$

$$\left[\frac{423,801}{371,360} \right]^n = (1.1412)^{.86} \times 3055 = 1.119 Q \times 3055$$

$$A_{of} = 3419 \text{ MCF/D}$$

Tested By: K. C. McBrideWitnessed By: A. R. Kendrick, New Mexico Oil Conservation Commission

L. D. Galloway

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