

OPEN FLOW TEST DATA

Date: July 3, 1956Operator: El Paso Natural Gas CompanyLease: Ludwick # 7 (Pictured Cliff)Location: 1650'S, 990'W, Sec. 31-30-10County: San Juan State: N.M.Formation: Pictured CliffPool: Aztec Pictured CliffCasing: 7 5/8 " Set @ 4273
5 1/2 " Set @ 4195 - 4922 'Tubing: 2 " Set @ 4833 'Pay Zone: 2384 ' To: 2422 'Total Depth: Production Packer 2493 'Choke Size: .750 "Choke Constant = C = 14.1605Stimulation Method: Sand Water Frac.Flow Through: Casing X Tubing Shut-In Pressure Casing: 645 psig / 12 = 657 psia (Shut-in 23 days)Shut-In Pressure Tubing: psig / 12 = psiaFlowing Pressure: P : 252 psig / 12 = 264 psiaWorking Pressure: P_w : Calculated psig / 12 = 265 psiaTemperature: T : 77 °F / 460 = 537 ° AbsoluteF_{pv} (from tables) : 1.024 Gravity .669 n .85

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

$$= 14.1605 \times 264 \times .9840 \times .9463 \times \frac{1}{1.024} = 3565 \text{ MCF/D}$$

$$\text{Open Flow} = Aof = Q$$

$$Aof = 3565$$

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

$$\left[\frac{431,649}{361,360} \right]^n$$

$$= 3565(1.1945)^{.85} = 3565 \times 1.1631$$

$$Aof =$$

$$4,146$$

$$\text{MCF/D}$$

Tested By: T. B. GrantWitnessed By: 
L. D. Galloway
L. D. Galloway

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