

OPEN FLOW TEST DATA

Date: April 12, 1956

Operator: El Paso Natural Gas Company Lease: Jones # 6-A

Location: 1550'N, 890'E, Sec. 14-28-8 County: San Juan State: N.M.

Formation: Mesa Verde Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set 5090 ' Tubing: 2 " Set 5220 '

Pay Zone: 4602 ' To: 5152 ' Total Depth: 5290 '

Choke Size: 0.750 " Choke Constant = C = 14.1605

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

Shut-In Pressure Casing: 1071 psig / 12 = 1083 psia (Shut-in 11 days)

Shut-In Pressure Tubing: 1066 psig / 12 = 1078 psia

Flowing Pressure: P : 419 psig / 12 = 431 psia

Working Pressure: P_w : 895 psig / 12 = 907 psia

Temperature: T : 74 °F / 460 = 534 ° Absolute

F_{pv} (from tables) : 1.057 Gravity 0.695 n 0.750

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

$$= 14.1605 \times 431 \times .9868 \times .8944 \times \frac{1}{1.057} = 5694 \text{ MCF/D}$$

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

$$Aof = 5694 \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.475 Q$$

$$Aof = 14.093 \text{ MCF/D}$$

Tested By: Tom Grant

Witnessed By: _____



Lewis D. Galloway
L. D. Galloway

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