

OPEN FLOW TEST DATA

Date: May 9, 1956
 Operator: El Paso Natural Gas Company Lease: San Juan 32-9 # 43
 Location: 1137'S, 1180'W, Sec. 2-31-10 County: San Juan State: N.M.
 Formation: Mesa Verde Pool: Blanco Mesa Verde
 Casing: 5 1/2 " Set @ 5421 ' Tubing: 2 " Set @ 5373 '
 Pay Zone: 4754 ' To: 5350 ' Total Depth: 5415 c/o 5370 '
 Choke Size: 3/4 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing _____ Tubing X
 Shut-In Pressure Casing: 1047 psig / 12 = 1059 psia (Shut-in 0 days)
 Shut-In Pressure Tubing: 1048 psig / 12 = 1060 psia
 Flowing Pressure: P : 464 psig / 12 = 476 psia
 Working Pressure: P_w : 978 psig / 12 = 990 psia
 Temperature: T : 84 °F / 460 = 514 ° Absolute
 F_{pv} (from tables) : 1.048 Gravity 0.680 est. n 0.75

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

$$= 14.1605 \times 476 \times .9777 \times .9393 \times \frac{1}{1.048} = 6487 \text{ MCF/D}$$

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

$$Aof = 6487 \left[\frac{1,123,600}{143,500} \right]^n = ((7.82996)^{.75}) = 30,359$$

$$Aof = 30,359 \text{ MCF/D}$$

Tested By: D. C. Adams

Witnessed By: _____



L. J. Calloway

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