

OPEN FLOW TEST DATA

Date: July 16, 1956
 Operator: El Paso Natural Gas Company Lease: Heaton # 6
 Location: 8401N, 16301E, Sec. 33-31-11 County: San Juan State: N.M.
 Formation: Mesa Verde Pool: Blanco Mesa Verde
 Casing: 5 1/2" liner " Set 4434 - 4944 " Tubing: 2 " Set 4755 " 4532
 Pay Zone: 4695 " To: 4744 " Total Depth: 4944 - c/o - 4800 "
 Choke Size: .750 " Choke Constant = C = 14.1605
 Stimulation Method: Sand Water Frac. Flow Through: Casing Tubing X
 Shut-In Pressure Casing: psig / 12 = psia (Shut-in 9 days)
 Shut-In Pressure Tubing: 989 psig / 12 = 1001 psia
 Flowing Pressure: P : 342 psig / 12 = 354 psia
 Working Pressure: P_w : Calculated psig / 12 = 736 psia
 Temperature: T : 86 °F / 460 = 546 ° Absolute
 F_{pv} (from tables) : 1.032 Gravity .678 n .75

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

$$= 14.1605 \times 354 \times .9759 \times .9427 \times \frac{1}{1.032} = 4,759 \text{ MCF/L}$$

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

$$Q_{of} = 4,759 \left[\frac{1,002,001}{460,305} \right]^n = (2.1768)^{.75} \times 4,759 = 1.792 \times 4,759$$

$$Q_{of} = 8,528 \text{ MCF/L}$$

Tested By: K. C. McBride

Witnessed By: A. R. Kendrick, New Mexico Oil Conservation Commission



L. D. Galloway

OIL CONSERVATION COMMISSION

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