

OPEN FLOW TEST DATA

Date: 10/8/56
 Operator: Magnolia Petroleum Co Lease: E-2
 Location: SW/4 Sec 14-27N-3E County: Rio Arriba State: NM
 Formation: Mesa Verde Pool: _____
 Casing: 5 1/2 " Set @ 6211 ' Tubing: 2 " Set @ 5436 '
 Pay Zone: _____ ' To: _____ ' Total Depth: 6211 '
 Choke Size: .750 " Choke Constant = C = 14.1605
 Stimulation Method: _____ Flow Through: Casing _____ Tubing X
 Shut-In Pressure Casing: 1733 psig / 12 = 1733 psia (Shut-in _____ days)
 Shut-In Pressure Tubing: 1733 psig / 12 = 1733 psia
 Flowing Pressure: P : 494 psig / 12 = 494 psia
 Working Pressure: P_w : 1136 psig / 12 = 1136 psia
 Temperature: T : 78 °F / 460 = 538 ° Absolute
 F_{pv} (from tables) : 1.035 Gravity .680 (est) n .75

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

$$= \frac{14.1605 \times 494 \times .9831 \times .9393 \times 1.035}{1.035} = \underline{6815} \text{ MCF/D}$$

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

$$Aof = \left[\frac{1733^2}{1733^2 - 1136^2} \right]^n = \frac{(2010.235)^{.75}}{(1719.729)^{.75}} \cdot (1.7504)^{.75}$$

$$Aof = \underline{10368} \text{ MCF/D}$$

Tested By: Geolentris, Inc
 Witnessed By: L. H. Procter



W. J. McConathy

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