

OPEN FLOW TEST DATA

Date: 10/3/56
 Operator: Magnolia Petroleum Company
 Lease: Brown
 Location: NE 1/4 Sec 27-24N-2E
 County: Rio Arriba State: NM
 Formation: Pictured Cliffs
 Pool: _____
 Casing: _____" Set @ _____'
 Tubing: _____" Set @ _____'
 Pay Zone: _____' To: _____'
 Total Depth: _____'
 Choke Size: .750" Choke Constant = C = 14.1603
 Stimulation Method: _____ Flow Through: Casing _____ Tubing X
 Shut-In Pressure Casing: 878 psig / 12 = 890 psia (Shut-in 7 days)
 Shut-In Pressure Tubing: 878 psig / 12 = 890 psia
 Flowing Pressure: P : 54 psig / 12 = 54 psia
 Working Pressure: P_w : 154 psig / 12 = 162 psia
 Temperature: T : 60 °F / 460 = 520 ° Absolute
 F_{pv} (from tables) : _____ Gravity .660 n .85

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

$$= 14.1603 \times 54 \times .9533 = 729 \text{ MCF/D}$$

Open Flow = Aof = Q

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

$$Aof = \left[\frac{890^2}{890^2 - 162^2} \right]^n$$

$$= \frac{(792.100)}{(763.856)}^{.85} = (1.0243)^{.85} = 1.0254$$

Aof = 748 MCF/D

Tested By: Geological, Inc.
 Witnessed By: _____



W. J. McConathy

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