

OPEN FLOW TEST DATA

Date: October 1, 1956

Operator: Magnolia Petroleum

Lease: Sierrita P-2

Location: NE 1/4 Sec 19-26N-3W

County: Bio Arriba State: NM

Formation: Mosaverte

Pool: _____

Casing: _____" Set @ _____'

Tubing: _____" Set @ _____'

Pay Zone: _____' To: _____'

Total Depth: _____'

Choke Size: .750"

Choke Constant = C = 14.1605

Stimulation Method: _____ Flow Through: Casing _____ Tubing _____

Shut-In Pressure Casing: 1297 psig / 12 = 1269 psia (Shut-in 7 days)

Shut-In Pressure Tubing: 1296 psig / 12 = 1270 psia

Flowing Pressure: P : 602 psig / 12 = 614 psia

Working Pressure: P_w : 190 psig / 12 = 190 psia

Temperature: T : 67 °F / 460 = 527 ° Absolute

F_{pv} (from tables) : 1.016 Gravity .670 (est) n .73

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

$$= 14.1605 \times 150 \times .9933 \times .9463 = 2028 \text{ MCF/D}$$

Open Flow = Aof = Q

Aof =

Aof =

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

$$\left[\frac{1297^2}{1297^2 - 614^2} \right]^n$$

$$= \frac{(1410.36)}{(129.36)} = (1.097) \text{ MCF/D}$$

2164 MCF/D

Tested By: Geophysical, Inc

Witnessed By: _____



H. J. McConathy

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