

OPEN FLOW TEST DATA

10:03 a.m. - 1:03 p.m.

Date: June 17, 1956

Operator: Magnolia Petroleum Co

Lease: Gallins Fed #1

Location: SE 1/4, T4S, R3W

County: Rio Arriba State: N.M.

Formation: plastered cliffs

Pool: Wildcat

Casing: _____" Set @ _____'

Tubing: _____" Set @ _____'

Pay Zone: _____' To: _____'

Total Depth: _____'

Choke Size: 3/4"

Choke Constant = C = 12.3650

Stimulation Method: 997

Flow Through: Casing _____ Tubing 2

Shut-In Pressure Casing: 997 psig / 12 = 1009 psia (Shut-in _____ days)

Shut-In Pressure Tubing: 998 psig / 12 = 1010 psia

Flowing Pressure: P : 190 psig / 12 = 212 psia

Working Pressure: P_w : 529 psig / 12 = 541 psia

Temperature: T : 68 °F / 460 = 528 ° Absolute

F_{pv} (from tables) : _____ Gravity 1.400 n .85

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$= 12.3650 \times 212 \times 9924 \times .9393 \times 1.00 = 2444$$

Open Flow = Aof = Q

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

Aof =

$$\left[\frac{1009^2}{1009^2 - 541^2} \right]^n$$

$$= \frac{(101.8061) \cdot .85}{(7254)} \cdot (1.4035) \cdot .85$$

$$= 1.3310$$

Aof =

$$3253 \text{ MCF/D}$$

Tested By:

W. J. McConathy

Witnessed By:

J. A. Logan

Build-up - 768 psig

35 min

Blow spray of water throughout test

W. J. McConathy
Geolatria, Inc., Artes, N.M.

