

# OPEN FLOW TEST DATA

Date: 11/3/68

Operator: Dyna Ray Oil & Gas Company

Lease: Jicarilla <sup>163</sup> 2

Location: Sec. 22 Twp. 23N Rge 2W

County: Sandoval State: N.M.

Formation: PC

Pool: South Alamos

Casing: 1 1/2 " Set @ 3106

Tubing: 1 1/4 " Set @ 3020

Pay Zone: 3011 To: 3011

Total Depth: 3150 FTD

Choke Size: 3/4 tho

Choke Constant = C = 12.365

Stimulation Method: Sand water frac

Flow Through: Casing 1 Tubing

Shut-in Pressure Casing: 815 psig / 12 = 827 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 815 psig / 12 = 827 psia

Flowing Pressure: P : 153 psig / 12 = 165 psia

Working Pressure: P<sub>w</sub> : \_\_\_\_\_ psig / 12 = \_\_\_\_\_ psia

Temperature: T : 55 °F / 460 = 515 °Absolute

F<sub>pv</sub> (from tables) : 1.015 Gravity Est. 620 n 85

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

$$\frac{12.365 \times 165 \times 1.0044 \times .9837 \times 1.015}{Q} = \underline{2047} \text{ MCF/D}$$

$$\text{Open Flow} - A_{of} = Q$$

$$A_{of} =$$

$$\left[ \frac{P_c^2 - P_w^2}{P_c^2} \right]^n = \frac{499.849}{472.624} = 1.0607$$

$$A_{of} =$$

$$\underline{2147} \text{ MCF/D}$$

Tested By: \_\_\_\_\_

Witnessed By: \_\_\_\_\_



Donald Burton