

OPEN FLOW TEST DATA

Date: February 18, 1976

Operator: Curtis Little Lease: Gentle #2

Location: Sec. 17, Twnship-28N, Rge-11W County: San Juan State: N.M.

Formation: Fruitland Pool: Pinon Fruitland

Casing: 2-7/8 " Set @ 1394 ' Tubing: " Set @

Pay Zone: 1352 ' To: 1372 ' Total Depth: 1400

Choke Size: 3/4" Choke Constant = C = 12.365

Stimulation Method: SWF Flow Through: Casing X Tubing

Shut-in Pressure Casing: 249 psig / 12 = 261 psia (Shut-in 9 days)

Shut-in Pressure Tubing: psig / 12 = psia

Flowing Pressure: P : 42 psig / 12 = 54 psia

Working Pressure: P_w : psig / 12 = 61 psia

Temperature: T : 58° °F / 460 = 518 °Absolute

F_{pv} (from tables) : 1.008 Gravity Est. .670 n 85

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

$$12.365 \times 54 \times 1.0019 \times .9463 \times 1.008$$

$$Q = \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{68,121} \right]^n = 1.0577 = 1.0488$$

$$Aof = \left[\frac{68,121}{64,402} \right]^n$$

$$Aof = \underline{\hspace{2cm}} \text{ MCF/D}$$

Tested By: GeoElectric, Inc.

Witnessed By: El Paso Natural Gas Co.
Don Norton

