

# OPEN FLOW TEST DATA

Date: 11-12-62

Operator: Tidewater Oil Co. Lease: Fed. Dak. 2 E

Location: 2-27N-12W County: San Juan State: N. M.

Formation: Dakota Pool: Basin Dakota

Casing: 4 1/8 " Set @ 6453 ' Tubing: 2 3/8 " Set @ 6257

Pay Zone: 6286 ' To: 6306 ' Total Depth: 6454

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

Stimulation Method: \_\_\_\_\_ Flow Through: Casing \_\_\_\_\_ Tubing x

Shut-in Pressure Casing: 1801 psig / 12 = 1813 psia (Shut-in 11 days)

Shut-in Pressure Tubing: 1801 psig / 12 = 1813 psia

Flowing Pressure: P : 172 psig / 12 = 184 psia

Working Pressure: P<sub>w</sub> : 886 psig / 12 = 898 psia

Temperature: T : 72 °F / 460 = 532 °Absolute

F<sub>pv</sub> (from tables) : 1.021 Gravity .700 Est. n 75

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

$$Q = 12.365 \times 184 \times .9887 \times .9258 \times 1.021 = 2126 \text{ MCF/D}$$

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

$$A_{of} = \left[ \frac{P_c^2 - P_w^2}{3,286,969} \right]^n = 1.3251 = 1.2350$$

$$A_{of} = 2626 \text{ MCF/D}$$

Tested By: D. W. Stiles

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

GeoElectric, Inc.

12/11/62

