

OPEN FLOW TEST DATA

Date: 10-5-62

Operator: E. L. FUNDINGALAND

Lease: SUNOCO FEDERAL No. 3

Location: SE/4 SEC. 30-24N-1W

County: RAO ARriba State: N. M.

Formation: PICTURE CLIFF

Pool: _____

Casing: 4 1/2" Set @ 3310

Tubing: 1" Set @ 3310

Pay Zone: 3310 To: 3330

Total Depth: 3367

Choke Size: 3/4 IHC

Choke Constant = C = 12.365

Stimulation Method: _____

Flow Through: Casing X Tubing _____

Shut-in Pressure Casing: 651 psig / 12 = 663 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 651 psig / 12 = 663 psia

Flowing Pressure: P : 128 psig / 12 = 140 psia

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

Temperature: T : 35 °F / 460 = 495 °Absolute

F_{pv} (from tables) : 1.015 Gravity .620 Est n .85

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

$$Q = 12.365 \times 140 \times 1.0249 \times .9837 \times 1.015 = 1771 \text{ MCF/D}$$

$$\text{Open Flow} - Aof = Q$$

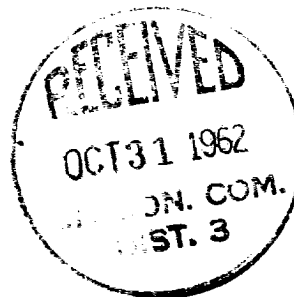
$$Aof = \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0467 = 1.0395$$

$\frac{439,569}{419,569}$

$$Aof = 1841 \text{ MCF/D}$$

Tested By: D. N. STILLEN

Witnessed By: _____



GEOELECTRIC, INC

W. H. Jones