

OPEN FLOW TEST DATA

Date: 11/29/73

Operator: William C. Russell

Lease: Hammond #52

Location: 26-27N-8W

County: San Juan State: N.M.

Formation: Chacra

Pool: Undesignated

Casing: 4 1/2 " Set @ PB 3600

Tubing: 1.315 " Set @

Pay Zone: 3078 ' To: 3088

Total Depth: 3080

Choke Size: 3/4" THG

" Choke Constant = C = 12.365

Stimulation Method:

Flow Through: Casing Tubing X

Shut-in Pressure Casing: 1125 psig / 12 = 1137 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1125 psig / 12 = 1137 psia

Flowing Pressure: P : 104 psig / 12 = 116 psia

Working Pressure: P_w : 104 psig / 12 = 116 psia

Temperature: T : 50 °F / 460 = 510 °Absolute

F_{pv} (from tables) : 1.010 Gravity Est. .670 n 75

$$\text{Choke Volume} = Q = C \times P_c^2 \times F_t \times F_g \times F_{pv}$$

$$12.365 \times 116 \times 1.0098 \times .9463 \times 1.010$$

$$Q =$$

$$= \underline{1384} \text{ MCF/D}$$

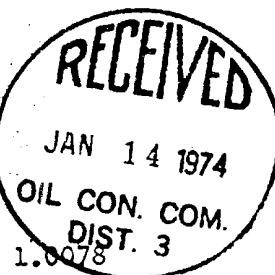
Open Flow - Aof = Q

Aof =

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

$$\left[\frac{1292,769}{1279,313} \right]^n$$

$$= 1.0105$$



Aof =

$$\underline{1394} \text{ MCF/D}$$

Tested By: Robert C. Dintelman

Witnessed By:

Geolectric, Inc.

R.A. Kuyper int.



100

100

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