

OPEN FLOW TEST DATA

Date: 11-2-64

Operator: Shar Alan Oil Co.

Lease: Diek Hunt Fed. # 2

Location: 1-30N-14W

County: S. J. State: N. M.

Formation: Dakota

Pool: Basin Dakota

Casing: 5 1/2 " Set @ 6330

Tubing: 2 3/8 " Set @ 6167

Pay Zone: See Below To: _____

Total Depth: 6375

Choke Size: 3/4 THC

Choke Constant = C = 14.1605

Stimulation Method: _____

Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 2100 psig / 12 = 2112 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 2100 psig / 12 = 2112 psia

Flowing Pressure: P : 183 psig / 12 = 195 psia

Working Pressure: P_w : 1018 psig / 12 = 1030 psia

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

F_{pv} (from tables) : 1.029 Gravity Est. .700 n 85

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

$$14.1605 \times 220 \times 1.0098 \times .9258 \times 1.029$$

$$= \frac{2656}{Q} \text{ MCF/D}$$

Pay Zone

6184-6166
6222-6219
6239-6233
6251-6245

Open Flow - Aof = Q

Aof =

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

$$\left[\frac{4,460,544}{3,399,644} \right]^n$$

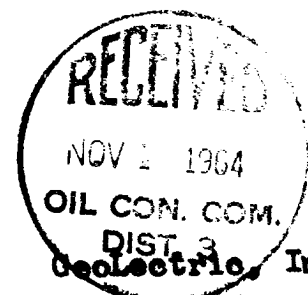
$$= 1.3121 = 1.2239$$

Aof =

$$\frac{3250}{\text{MCF/D}}$$

Tested By: _____

Witnessed By: _____



B. H. Keger