

OPEN FLOW TEST DATA

Date: Sep't 2, 1957

Operator: Royal Development Co. Lease: Douthitt # 1P

Location: 33 28N 13W County: San Juan State: N.M.

Formation: Dakota Pool: Wildcat Dakota

Casing: 5 1/2 " Set @ 6150 ' Tubing: 2 " Set @ 6128 '

Pay Zone: 6069 ' To: 6150 ' Total Depth: 6158 '

Choke Size: 3/4 " Choke Constant = C = 14.1605

Stimulation Method: SMP Flow Through: Casing I Tubing

Shut-in Pressure Casing: 1607 psig / 12 = 1619 psia (Shut-in 7 days)

Shut-in Pressure Tubing: 1603 psig / 12 = 1615 psia

Flowing Pressure: P : 323 psig / 12 = 335 psia

Working Pressure: P_w : 87 psig / 12 = 99 psia

Temperature: T : 74 °F / 460 = 534 °Absolute

F_{pv} (from tables) : 1.188 Gravity 670 Est n .75

$$14.1605 \times 335 \times .9777 \times 9463 \times 1.188$$

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

$$Q = \underline{\hspace{2cm}} = \underline{5,214} \text{ MCF/D}$$

Open Flow - Aof = Q

$$Aof = \left[\frac{P_c^2 - P_w^2}{P_c^2} \right]^{.75} = \underline{1.0028}$$

$$Aof = \underline{2,608,225}$$

$$Aof = \underline{2,598,424}$$

$$Aof = \underline{5,229} \text{ MCF/D}$$

Tested By: GeoElectric, Inc.

Witnessed By:

B. H. Keyes
B. H. Keyes for
D. W. Stiles



OIL CONSERVATION COMMISSION
ALBERTA

File