OPEN FLOW TEST DATA

Date: February 23, 1956

Operator: El Paso Natural Gas Company

Lease: Riddle # 2-F

Location: 990'S, 1070'W, Sec. 8, T28N, R8W

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 7 " Set @ 2522 ' (5½ / 4745)

Tubing: 2 " Set @ 4689 '

Perforations

Pay Zone: 3990 ' To: 4700 '

Total Depth: '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Water Frac.

Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1040 psig + 12 = 1052 psia (Shut-in 8 days)

Shut-In Pressure Tubing: 1030 psig + 12 = 1042 psia

Flowing Pressure: P : 346 psig + 12 = 358 psia

Working Pressure: P_w : 774 psig + 12 = 786 psia

Temperature: T : 68 °F + 460 = 528 ° Absolute

F_{pv} (from tables) : 1.037 Gravity 0.670 n 0.750

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

Q = 14.1605 x 358 x 0.9924 x 0.9463 x 1.037 = 4937 MCF/D

$$\text{Open Flow} = \text{Aof} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$$

$$\text{Aof} = 4937 \left[\frac{1,106,704}{488,908}\right]^n = 4937(2.2636)^{.75} = 4937 \times 1.846$$

Aof = 9,114 MCF/D

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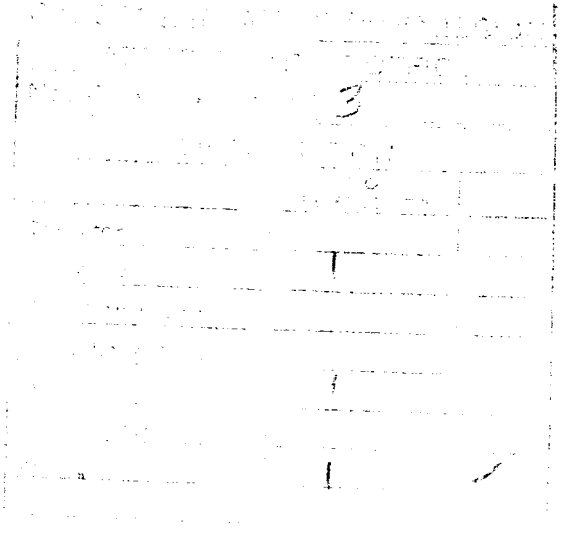
OIL CON. COM.
DIST. 3

Tested By: T. B. Grant

Witnessed By: _____

L. J. Galloway