

OPEN FLOW TEST DATA

Date: June 14, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 28-6 Unit # 64

Location: 990'S, 990'W, Sec. 14-27-6

County: Rio Arriba State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set @ 5577 '

Tubing: 2 " Set 5515 '

Pay Zone: 4792 ' To: 5466 '

Total Depth: 5576 - c/o - 5550 '

Choke Size: 3/4 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1065 psig / 12 = 1077 psia (Shut-in 12 days,

Shut-In Pressure Tubing: 1032 psig / 12 = 1044 psia

Flowing Pressure: P : 316 psig / 12 = 328 psia

Working Pressure: P_w : 815 psig / 12 = 827 psia

Temperature: T : 83 °F / 460 = 543 ° Absolute

F_{pv} (from tables) : 1.032 Gravity .690 n .75

Choke Volume = Q = C x P_t x F_t x F_g x F_{pv}

$$Q = 14.1605 \times 328 \times .9786 \times .9325 \times \frac{1}{1.032} = 4374 \text{ MCF/D}$$

Open Flow = Aof = Q

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

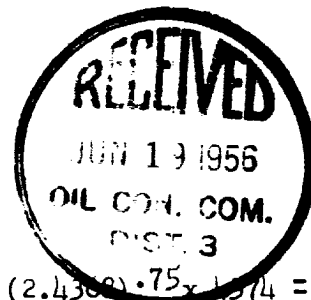
Aof = 4374

$$\left[\frac{1,159,929}{476,000} \right]^n$$

Aof =

8,529

MCF/D



$$(2.4388) \cdot 75 \times 4374 = 1.95 \times 4374$$

Tested By: K. C. McBride

Witnessed By: _____

L. D. Galloway