

OPEN FLOW TEST DATA

ate: May 7, 1956

Operator: El Paso Natural Gas Company

Lease: Atlantic # 9-A

Location: 1090'S, 1650'W, Sec. 27-31-10

County: San Juan State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set 5425 '

Tubing: 2 " Set 5305 '

Pay Zone: 4586 ' To: 5362 '

Total Depth: 5420 '

Choke Size: 0.750 "

Choke Constant = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing _____ Tubing X

Shut-In Pressure Casing: 1026 psig / 12 = 1038 psia (Shut-in 12 days)

Shut-In Pressure Tubing: 1029 psig / 12 = 1041 psia

Flowing Pressure: P : 473 psig / 12 = 485 psia

Working Pressure: P_w : 969 psig / 12 = 981 psia

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

γ_{pv} (from tables) : 1.046 Gravity .672 n 0.750

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

$$= 14.1605 \times 485 \times .9786 \times .9463 \times \frac{1}{1.046} = 6653 \text{ SCF/}$$

Open Flow = Aof =

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

Aof = 6653

$$\left[\frac{1,083,681}{121,320} \right]^0$$

= 5.16 x 6653

Aof =

34,329

SCF/

Tested By: Tom Grant

Witnessed By: _____



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