

OPEN FLOW TEST DATA

Date: July 9, 1956

Operator: El Paso Natural Gas Company

Lease: San Juan 28-7 # 59

Location: 890'N. 1750'E. Sec. 29-28-7

County: Rio Arriba State: N.M.

Formation: Mesa Verde

Pool: Blanco Mesa Verde

Casing: 5 1/2 " Set 5113 '

Tubing: 2 " Set 5027 '

Pay Zone: 4416 ' To: 5018 '

Total Depth: 5113 '

Choke Size: 0.750 "

Choke Constant = C = 14.1605

Stimulation Method: Sand Water Frac.

Flow Through: Casing Tubing X

Shut-In Pressure Casing: 1038 psig / 12 = 1050 psia (Shut-in 7 days)

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

Flowing Pressure: P : 371 psig / 12 = 383 psia

Working Pressure: P_w : 763 psig / 12 = 775 psia

Temperature: T : 77 °F / 460 = 537 ° Absolute

F_{pv} (from tables) : 1.040 Gravity .690 n 0.750

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

$$= 14.1605 \times 383 \times .9840 \times .9325 \times \frac{1}{1.04} = \underline{5176} \text{ MCF/D}$$

Open Flow = Aof = Q

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

Aof = 5176

$$\left[\frac{1,102,500}{501,875} \right]^n$$

$$= 5176 \times 2.1968^{.75} = Q \times 1.803$$

Aof =

9,332

MCF/D

Tested By: T. B. Grant

Witnessed By:



L. D. Galloway
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OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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