

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-25-70

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 147	
Location 1550 N, 1840 E, S 29, T28N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7634	Tubing: Diameter 1.900	Set At: Feet 7547
Pay Zone: From 7384	To 7574	Total Depth: 7634	Shut In 5-25-70
Stimulation Method SWP		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2610	+ 12 = PSIA 2622	Days Shut-In 31	Shut-In Pressure, Tubing PSIG 2642	+ 12 = PSIA 2654	
Flowing Pressure: P PSIG 352	+ 12 = PSIA 364		Working Pressure: P _w PSIG 538	+ 12 = PSIA 550	
Temperature: T = 71 °F	F _t = .9896	n = .75	F _{pv} (From Tables) 1.027	Gravity .600	F _g = 1.0000

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 364 \times .9896 \times 1.000 \times 1.027 = 4574 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

Note: well produced light to heavy
fog throughout test. (dist. & H₂O)

$$Aof = \left(\frac{7043716}{6741216} \right)^n = 1.0448^{.75} \times 4574 = 1.0334 \times 4574$$

$$Aof = 4727 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

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