

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-29-69

Operator El Paso Natural Gas Co.		Lease Gonzales Com No. 3	
Location 1650 S, 1650 W, S 16-T30N-R12W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6655	Tubing: Diameter 2.375	Set At: Feet 6535
Pay Zone: From 6398	To 6559	Total Depth: 6655	Shut In 10-18-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1972	+ 12 = PSIA 1984	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 1985	+ 12 = PSIA 1997	
Flowing Pressure: P PSIG 151	+ 12 = PSIA 163		Working Pressure: P _w PSIG 592	+ 12 = PSIA 604	
Temperature: T = 80 °F	n = 0.75		F _{pv} (From Tables) 1.013	Gravity .670	F _g = .9463

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

$$Q = 12.365 \times 163 \times .9813 \times .9463 \times 1.013 = \underline{1896} \text{ MCF/D}$$

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

Note: Unloaded a slug of oil and water after 5 min. Blew heavy fog of water and light hydrocarbons for remainder of test.

$$Aof = \left(\frac{3988009}{3623193} \right)^n = 1896 (1.1007)^{.75} = 1896 (1.0746)$$

$$Aof = \underline{2037} \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY _____



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