

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-27-66

Operator El Paso Natural Gas Company		Lease Burroughs Com "C" No. 5	
Location 1630'N, 1730'E, Sec. 2, T-24-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6940	Tubing: Diameter 2.375	Set At: Feet 6852
Pay Zone: From 6750	To 6880	Total Depth: 6940	Shut In 10-20-66
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2111	+ 12 = PSIA 2123	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2092	+ 12 = PSIA 2104	
Flowing Pressure: P PSIG 268	+ 12 = PSIA 280		Working Pressure: P _w PSIG 1007	+ 12 = PSIA 1019	
Temperature: T = 72 °F	F _t = .9887	n = 75	F _{pv} (From Tables) 1.027	Gravity .675	F _g = .9427

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

$$Q = (12.365)(280)(.9887)(.9427)(1.027) = \underline{3314} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4507129}{3468768} \right)^n = (1.2993)^{75} (3314) = (1.2170)(3314)$$

NOTE: 5 min. after the well was turned on, it unloaded a slug of water & distillates after which it produced a heavy spray throughout the remainder of the test.

$$Aof = \underline{4033} \text{ MCF/D}$$

TESTED BY Dannie RobertsCHECKED BY H. E. McAnally

H. L. Kendrick

