

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 12, 1968

Operator El Paso Natural Gas Company		Lease Riddle "B" No. 5	
Location 1090'S, 1800'E, Sec. 23, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7400	Tubing: Diameter 2.375	Set At: Feet 7136
Pay Zone: From 7162	To 7368	Total Depth: 7400	Shut In 11-1-68
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 2120	+ 12 = PSIA 2132	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2122	+ 12 = PSIA 2134	
Flowing Pressure: P PSIG 322	+ 12 = PSIA 334		Working Pressure: P _w PSIG 1007	+ 12 = PSIA 1019	
Temperature: T = 73 °F	n = .75		Fpv (From Tables) 1.033	Gravity .670	Fg = .9463

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

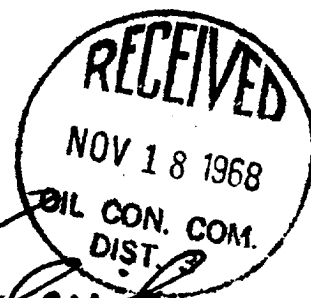
$$Q = (12.365)(334)(.9877)(.9463)(1.033) = \underline{\quad 3987 \quad} \text{ MCF/D}$$

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

$$Aof = \left(\frac{4553956}{3515595} \right)^n = (3987)(1.2953)^{.75} = (3987)(1.2141)$$

Note: The well produced a light fog of water and distillate throughout the test.

$$Aof = \underline{\quad 4841 \quad} \text{ MCF/D}$$

TESTED BY Don NortonCalculated
WITNESSED BY Hermon McAnallyChecked by George Lippman

H. L. Kendrick