

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 19, 1967

Operator El Paso Natural Gas Company		Lease Hughes No. 6 OWWO	
Location 1050'N, 1725'E, Sec. 21, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5511	Tubing: Diameter 2.375	Set At: Feet 5416
Pay Zone: From 4730	To 5440	Total Depth: 5511	Shut In 1-12-67
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 880	+ 12 = PSIA 892	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 883	+ 12 = PSIA 895	
Flowing Pressure: P PSIG 284	+ 12 = PSIA 296	Working Pressure: P _w PSIG 710	+ 12 = PSIA 722		
Temperature: T = 75 °F	n = .75	F _{pv} (From Tables) 1.043	Gravity .800	F _g = .8660	

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

$$Q = (12.365)(296)(.9859)(.8660)(1.043) = \underline{3259} \text{ MCF/D}$$

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

$$Aof = \left(\frac{801025}{279741} \right)^n = (2.8634)^{.75} (3259) = (2.2012)(3259)$$

NOTE: The well produced a heavy fog of very light hydrocarbon hydrocarbons throughout the test.

$$Aof = \underline{7174} \text{ MCF/D}$$

TESTED BY Jesse Goodwin & Don Norton
 CHECKED
 WITNESSED BY H. E. McAnally

H. L. Kendrick
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