

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 27, 1966

Operator El Paso Natural Gas Company		Lease Hughes No. 8 (OWWO)	
Location 1550'N, 990'E, Section 29, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5441	Tubing: Diameter 2.375	Set At: Feet 5292
Pay Zone: From 4648	To 5306	Total Depth: 5441	Shut In 7-20-66
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 868	+ 12 = PSIA 880	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 776	+ 12 = PSIA 788	
Flowing Pressure: P PSIG 300	+ 12 = PSIA 312		Working Pressure: Pw PSIG 735	+ 12 = PSIA 747	
Temperature: T = 83 °F	F _i = .9786	n = .75	F _{pv} (From Tables) 1.032	Gravity .700	F _g = .9258

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

$$Q = (12.365) (312) (.9786) (.9258) (1.032) = 3,607 \text{ MCF/D}$$

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

$$Aof = \left(\frac{774,400}{216,391} \right)^n = (3,607) (3.5787)^{.75} = (3,607) (2.6019)$$

$$Aof = 9,385 \text{ MCF/D}$$

NOTE: Well produced a slug of water and distillate after 2 minutes then a light fog for the remainder of the test.

TESTED BY Don NortonCALCULATED
WITNESSED BY Hermon E. McAnally

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