

OPEN FLOW TEST DATA

DATE November 14, 1967

Operator El Paso Natural Gas Company		Lease Day A No. 5 (OWWO)	
Location 990'N, 990'E, Sec. 18, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5453	Tubing: Diameter 2.375	Set At: Feet 5320
Pay Zone: From 4661	To 5364	Total Depth: 5453	Shut In 11-5-67
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 804	+ 12 = PSIA 816	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 720	+ 12 = PSIA 732	
Flowing Pressure: P PSIG 245	+ 12 = PSIA 257		Working Pressure: P _w PSIG 728	+ 12 = PSIA 740	
Temperature: T = 67 °F	n = .75		F _{pv} (From Tables) 1.024	Gravity .650	F _g = .9608

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

$$Q = (12.365)(257)(.9933)(.9608)(1.024) = 3106 \text{ MCF/D}$$

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

$$Aof = \left(\frac{665856}{118256} \right)^n = (3106)(5.6306)^{.75} = (3106)(3.6552)$$

NOTE: The well blew light mist of distillate and paraffin for entire test.

$$Aof = 11,353 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

Checked
WITNESSED BY A. J. Loleit

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