

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 5, 1968

Operator El Paso Natural Gas Company		Lease Atlantic "B" No. 6 (OWO)	
Location 990'S, 990'W, Sec. 33, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5520	Tubing: Diameter 2.375	Set At: Feet 5200
Pay Zone: From 4611	To 5498	Total Depth: 5520	Shut In 11-28-68
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 799	+ 12 = PSIA 811	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 797	+ 12 = PSIA 809	
Flowing Pressure: P PSIG 241	+ 12 = PSIA 253		Working Pressure: P _w PSIG 520	+ 12 = PSIA 532	
Temperature: T = 71 °F	F _t = .9896	n = .75	F _{pv} (From Tables) 1.022	Gravity .640	F _g = .9682

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

$$Q = (12.365)(253)(.9896)(.9682)(1.022) = \underline{3063} \text{ MCF/D}$$

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

$$Aof = \left(\frac{657721}{374697} \right)^n = (3063)(1.7553)^{.75} = (3063)(1.5249)$$

NOTE: Blew light fog of water and light hydrocarbons for entire test.

$$Aof = \underline{4671} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCalculated
WITNESSED BY George A. Lippman

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