

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 23, 1965

Operator El Paso Natural Gas Company		Lease Atlantic No. 1-A (OWWO)	
Location 1650'N, 990'E, Section 27, T-31-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5335	Tubing: Diameter 2.375	Set At: Feet 5260
Pay Zone: From 4729	To 5292	Total Depth: 5338	Shut In 6-15-65
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 874	PSIG	+ 12 = PSIA 886	Days Shut-In 8	Shut-In Pressure, Tubing 869	PSIG
				+ 12 = PSIA 881	
Flowing Pressure: P 298	PSIG	+ 12 = PSIA 310		Working Pressure: P _w 707	PSIG
				+ 12 = PSIA 719	
Temperature: T = 81 °F	F _t = .9804	n = .75		F _{pv} (From Tables) 1.029	Gravity .684
					F _g = .9393

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

$$Q = (12.365) (310) (.9804) (.9393) (1.029) = 3,632 \text{ MCF/D}$$

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

$$Aof = \left(\frac{784,996}{268,035} \right)^n = (3632) (2.9287)^{.75} = (3632) (2.2388)$$

$$Aof = 8,131 \text{ MCF/D}$$

NOTE: Well produced a heavy fog of distillate throughout the test.

TESTED BY J. B. Goodwin

CALCULATED BY H. E. McAnally

CHECKED BY T. B. Grant

L. D. Galloway
L. D. Galloway

