

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 10, 1968

Operator El Paso Natural Gas Company		Lease Harvey A No. 3 (OWWO)	
Location 890'S, 1650'E, Sec. 32, T-27-N, R-7-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.000	Set At: Feet 7436	Tubing: Diameter 2.375	Set At: Feet 5106
Pay Zone: From 5123	To 5274	Total Depth: 7436	Shut In 6-1-68
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 1044	+ 12 = PSIA 1056	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 1025	+ 12 = PSIA 1037	
Flowing Pressure: P PSIG 196	+ 12 = PSIA 208		Working Pressure: P _w PSIG 501	+ 12 = PSIA 513	
Temperature: T = 63 °F	n = .75		F _{pv} (From Tables) 1.020	Gravity .670	F _g = .9463

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

$$Q = (12.365)(208)(.9924)(.9463)(1.020) = 2464 \text{ MCF/D}$$

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

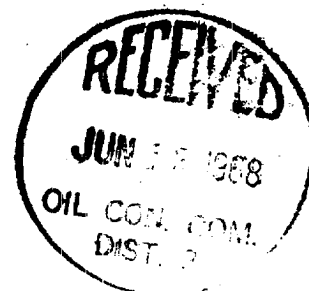
$$Aof = \left(\frac{1115136}{851967} \right)^n = (1.3088)^{.75} (2464) = (1.2236)(2464)$$

NOTE: The well produced a very heavy fog of oil throughout the test.

$$Aof = 3015 \text{ MCF/D}$$

TESTED BY C. R. Wagner

CHECKED BY G. A. Lippman



T. B. Grant