

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 14, 1968

Operator El Paso Natural Gas Company		Lease Vandewart "A" No. 4 (OWO)	
Location 790'N, 1550'E, Sec. 13, T-29-N, R-8-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5547	Tubing: Diameter 2.375	Set At: Feet 5216
Pay Zone: From 4776	To 5498	Total Depth: 5547	Shut In 10-25-68
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 884	+ 12 = PSIA 896	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 886	+ 12 = PSIA 898	
Flowing Pressure: P PSIG 368	+ 12 = PSIA 380		Working Pressure: P _w PSIG 801	+ 12 = PSIA 813	
Temperature: T = 72 °F F _t = 9887	n = .75		F _{pv} (From Tables) 1.041	Gravity .690 F _g = .9325	

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

$$Q = (12.365)(380)(.9887)(.9325)(1.041) = \underline{4510} \text{ MCF/D}$$

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

$$Aof = \left(\frac{806404}{145435} \right)^n = (4510)(5.5447)^{.75} = (4510)(3.6133)$$

Note: The well produced a very light fog of water and distillate throughout the test.

$$Aof = \underline{16296} \text{ MCF/D}$$

TESTED BY C.R. WagnerCalculated
WITNESSED BY H. E. McAnallyChecked by G. A. Lippman

H. L. Kendrick
H. L. Kendrick



