

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 20, 1968

Operator El Paso Natural Gas Company		Lease Grambling, Lb. 3 (OMIO)	
Location 1750'N, 10630'E, Sec. 12, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5643	Tubing: Diameter 2.375	Set At: Feet 5275
Pay Zone: From 4652	To 5616	Total Depth: 5643	Shut In 6-15-68
Stimulation Method Steam Water Free		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 859	+ 12 = PSIA 871	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 836	+ 12 = PSIA 848	
Flowing Pressure: P PSIG 335	+ 12 = PSIA 347		Working Pressure: P _w PSIG 757	+ 12 = PSIA 769	
Temperature: T = 72 °F	n = .75		F _{pv} (From Tables) 1.029	Gravity .640	F _g = .9682

CHOKE VOLUME = Q = C × P_i × F_i × F_g × F_{pv}

$$Q = (12.365)(347)(.9831)(.9682)(1.029) = \underline{4202} \text{ MCF/D}$$

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

$$Aof = \left(\frac{724201}{132840} \right)^n = (4202)(5.4516)^{.75} = (4202)(5.5077)$$

$$Aof = \underline{14991} \text{ MCF/D}$$

TESTED BY B. J. BroughtonCALCULATED
WITNESSED BY B. J. BroughtonCHECKED BY T. B. Grant

T. B. Grant