

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 20, 1965

Operator El Paso Natural Gas Company		Lease Barnes No. 1 (OWO)	
Location 1650'N, 1650'W, Sec. 24, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5376	Tubing: Diameter 2.375	Set At: Feet 5300
Pay Zone: From 4810	To 5332	Total Depth: 5376	Shut In 8-12-65
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 858	+ 12 = PSIA 870	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 858	+ 12 = PSIA 870	
Flowing Pressure: P PSIG 269	+ 12 = PSIA 281		Working Pressure: P _w PSIG 648	+ 12 = PSIA 660	
Temperature: T = 86 °F	F _t = .9759	n = .75	F _{pv} (From Tables) 1.020	Gravity .627	F _g = .9798

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

$$Q = (12.365) (281) (.9759) (.9798) (1.020) = \underline{3,389} \text{ MCF/D}$$

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

$$Aof = \left(\frac{756,900}{321,300} \right)^n = (2.3557)^{.75} (3,389) = (1.9010) (3,389) =$$

$$Aof = \underline{6,442} \text{ MCF/D}$$

TESTED BY Dan R. RobertsCHECKED BY: Herman E. McAnally

Lewis D. Galloway
Lewis D. Galloway