

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 29, 1965

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 12 (OWWO)	
Location 1650'N, 990'E, Sec. 6, T-29-N, R-6-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6043	Tubing: Diameter 2.375	Set At: Feet 5950
Pay Zone: From 5490	To 5994	Total Depth: 6050	Shut In 10-17-65
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, PSIG 904	+ 12 = PSIA 916	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 897	+ 12 = PSIA 909	
Flowing Pressure: P PSIG 325	+ 12 = PSIA 337		Working Pressure: P _w PSIG 764	+ 12 = PSIA 776	
Temperature: T = 82 °F	F _t = .9795	n = .750	F _{pv} (From Tables) 1.025	Gravity .629	F _g = .9798

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

$$Q = (12.365) (337) (.9795) (.9798) (1.025) = \underline{4099} \text{ MCF/D}$$

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

$$Aof = \left(\frac{839,056}{236,880} \right)^n = (3.5421)^{.75} (4099) = (2.5810) (4099)$$

NOTE: Blew dry gas.

$$Aof = \underline{10,580} \text{ MCF/D}$$

TESTED BY Don NortonCHECKED BY W. D. Dawson
~~WITNESSED BY~~