

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 4-29-70

Operator El Paso Natural Gas Co.		Lease Vaughn No. 11	
Location 1700 N, 1100 W, S 28, T26W, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3679	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3514	To 3614	Total Depth: 3679	Shut In 4-22-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 777	PSIG	+ 12 = PSIA 789	Days Shut-In 7	Shut-In Pressure, Tubing no tubing	PSIG + 12 = PSIA
Flowing Pressure: P 42	PSIG	+ 12 = PSIA 54		Working Pressure: P _w calc.	PSIG + 12 = PSIA 70
Temperature: T = 57 °F		n =		F _{pv} (From Tables) 1.003	Gravity .640 F _g = .9682
	F _t = 1.0029	.75			

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

$$Q = 12.365 \times 54 \times 1.0029 \times 1.003 \times .9682 = \underline{650} \text{ MCF/D}$$

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

$$Aof = \left(\frac{622521}{617621} \right)^n = 650 \times (1.0079)^{.75} = 650 \times 1.0059$$

$$Aof = \underline{654} \text{ MCF/D}$$

Note: Unloaded heavy fog of distillate and H₂O in 3 min. down to light fog in 5 min.

TESTED BY Norton & Goodwin

WITNESSED BY _____



H. L. Kendrick
H. L. Kendrick