

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 28, 1957

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 74	
Location 990'S, 1650'W, Sec. 11-28-7		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5-1/2"	Set At: Feet 5302	Tubing: Diameter 2"	Set At: Feet 5245
Pay Zone: From 5116	To 5251	Total Depth: 5314 - c/o 5265	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1074	- 12 = PSIA 1086	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 1065	- 12 = PSIA 1077	
Flowing Pressure: P PSIG 324	- 12 = PSIA 336		Working Pressure: P _w PSIG 770	- 12 = PSIA 782	
Temperature: T °F 78	n = .75		F _{pv} (From Tables) 1.036	Gravity .700	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 336 \times .9831 \times .9258 \times 1.036 = 3917 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,179,396}{567,872} \right)^n = 2.0768^{.75} \times 3917 = 1.7295 \times 3917$$

$$Aof = 6774 \text{ MCF/D}$$

TESTED BY Richard Proctor and Jess Goodwin

WITNESSED BY _____

L. D. Galloway
L. D. Galloway



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