

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-24-70

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 150	
Location 825 N, 1800 W, S 6, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.375	Set At: Feet 2918	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2730	To 2780	Total Depth: 2918	Shut In 8-16-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, 934	PSIG	+ 12 = PSIA 946	Days Shut-In 8	Shut-In Pressure, Tubing no tubing	PSIG + 12 = PSIA
Flowing Pressure: P 262	PSIG	+ 12 = PSIA 274		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 341
Temperature: T = 69 °F		n = .85		F _{pv} (From Tables) 1.028	Gravity .670 F _g = .9463

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

$$Q = 12.365 \times 274 \times .9915 \times 9463 \times 1.028 = 3268 \text{ MCF/D}$$

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

Note: Well blew spray of water and dist. throughout test.

$$Aof = \left(\frac{894916}{778635} \right)^n = 3268(1.1493)^{.75} = 3268(1.1255)$$

$$Aof = 3678 \text{ MCF/D}$$



TESTED BY D. R. Roberts

WITNESSED BY

H. L. Kendrick
H. L. Kendrick