

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-10-71

Operator El Paso Natural Gas Company		Lease San Juan 29-7 Unit No. 98 (CWWO)	
Location 1650' N, 890' E, S 30, T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5570	Tubing: Diameter 2.375	Set At: Feet 5507
Pay Zone: From 4712	To 5503	Total Depth: 5570	Shut In 5-1-71
Stimulation Method J W P		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 846	+ 12 = PSIA 858	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 672	+ 12 = PSIA 684	
Flowing Pressure: P PSIG 287	+ 12 = PSIA 299	Working Pressure: P _w PSIG 691	+ 12 = PSIA 703		
Temperature: T = 73 °F	n = Ft = .9877	F _{pv} (From Tables) 1.031	Gravity .699	F _g = .9265	

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

$$Q = 12.365 \times 299 \times .9877 \times 9265 \times 1.031 = 3488 \text{ MCF/D}$$

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

Note: Well produced solid 3/4 stream of H₂O for about 1 min. after start of test. Light thereafter.

$$Aof = \left(\frac{736164}{241955} \right)^n = 3488(3.0425)^{.75} = 3488(2.3037)$$

$$Aof = 8035 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



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