

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-2-70

Operator El Paso Natural Gas Co.		Lease San Juan 29-7 Unit No. 88 (OWWO)	
Location 990 S, 1000 W, S 6 T29N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5541	Tubing: Diameter 2.375	Set At: Feet 5423
Pay Zone: From 4824	To 5454	Total Depth: 5541	Shut In 8-26-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 878	+ 12 = PSIA 890	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 673	+ 12 = PSIA 685	
Flowing Pressure: P PSIG 327	+ 12 = PSIA 339		Working Pressure: P _w PSIG 776	+ 12 = PSIA 788	
Temperature: T = 73 °F	F _t = .9877	n = .75	F _{pv} (From Tables) 1.037	Gravity .700	F _g = .9258

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

$$Q = 12.365 \times 339 \times .9877 \times 9258 \times 1.037 = 3975 \text{ MCF/D}$$

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

Note: well blew very light fog of H₂O and dist. throughout test.

$$Aof = \left(\frac{792100}{171156} \right)^n = (4.6279)^{.75} 3975 = 3.1553 \times 3975$$

$$Aof = 12,542 \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY



H. E. Kendrick
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