

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9-2-70

Operator El Paso Natural Gas Co.		Lease San Juan 30-6 Unit No. 5 (OWWO)	
Location 990 S, 1650 W, S 35, T30N, R6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6204	Tubing: Diameter 2.375	Set At: Feet 6082
Pay Zone: From 5350	To 6084	Total Depth: 6204	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 696	+ 12 = PSIA 708	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 696
Flowing Pressure: P PSIG 224	+ 12 = PSIA 236	Working Pressure: P _w PSIG 558	+ 12 = PSIA 570
Temperature: T = 72 °F	n = .75	F _{pv} (From Tables) 1.022	Gravity .657 F _g = .9556

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

$$Q = 12.365 \times 236 \times .9887 \times .9556 \times 1.022 = \underline{2818} \text{ MCF/D}$$

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

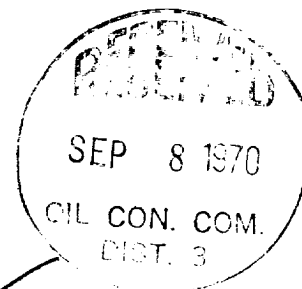
Note: well unloaded heavy liquid at start of blow. Light fog thereafter, H₂O and some dist.

$$Aof = \left(\frac{501264}{176364} \right)^n = (2818) (2.8422)^{.75} = 2818 \times 2.1889$$

$$Aof = \underline{6169} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____



H. L. Kendrick
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