

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 7-24-70

Operator El Paso Natural Gas Co.		Lease San Juan 30-6 U. No. 69 OWWO	
Location 1650 N, 990 E, S 14, T30N, R7W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 500	Set At: Feet 5775	Tubing: Diameter 2.375	Set At: Feet 5714
Pay Zone: From 5064	To 5720	Total Depth: 5775	Shut In 7-16-70
Stimulation Method SWP		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 865	+ 12 = PSIA 877	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 673	+ 12 = PSIA 685	
Flowing Pressure: P PSIG 172	+ 12 = PSIA 184		Working Pressure: Pw PSIG 574	+ 12 = PSIA 586	
Temperature: T = 71 °F	Ft = .9896	n = .75	Fpv (From Tables) 1.016	Gravity .640	Fg = .9682

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

$$Q = 12.365 \times 184 \times .9896 \times .9682 \times 1.016 = \underline{2215} \text{ MCF/D}$$

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

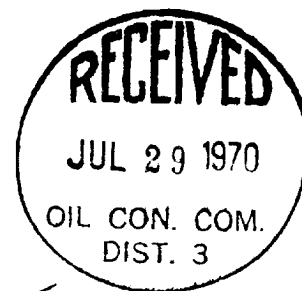
Note: well unloaded heavy liquid at start of blow. Light mist mostly H₂O there-after.

$$Aof = \left(\frac{769129}{269127} \right)^n = (1.8065)^{.75} \times 2215 = 1.5582 \times 2215$$

$$Aof = \underline{3451} \text{ MCF/D}$$

TESTED BY B. J. Broughton
Calc.

WITNESSED BY R. E. Stauffer & R. E. Fielder



H. L. Kendrick
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