

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

Operator El Paso Natural Gas Company		Lease Sunray No. 1 (OWWO)	
Location 889 S, 990 W, S 5, T29N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.300	Set At: Feet 5604	Tubing: Diameter 2.375	Set At: Feet 5486
Pay Zone: From 4664	To 5368	Total Depth: 5604	Shut In 7-16-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365		tbg. perf's 5487 - 5492	
Shut-In Pressure, Casing, PSIG 811	+ 12 = PSIA 823	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 811	+ 12 = PSIA 823	
Flowing Pressure: P PSIG 286	+ 12 = PSIA 298	Working Pressure: Pw PSIG 701	+ 12 = PSIA 713		
Temperature: T=73 °F	Ft=.9877	n = .75	Fpv (From Tables) 1.027	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 298 \times .9877 \times .9608 \times 1.027 = \underline{3591} \text{ MCF/D}$$

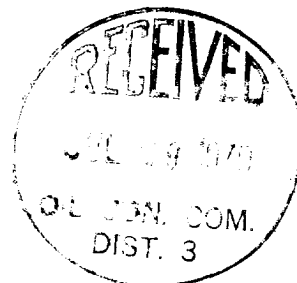
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{677329}{168960} \right)^n = (3591)(4.0088)^{.75} = (3591)(2.8331)$$

$$Aof = \underline{10,174} \text{ MCF/D}$$

TESTED BY C. R. Wagner

WITNESSED BY _____



H. L. Kendryck
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