

EL PASO NATURAL GAS COMPANY.
OPEN FLOW TEST DATA

DATE February 7, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #171 (CH)	
Location 1570/S, 1150/E, Sec. 16, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4129'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 4052'	To 4062'	Total Depth: 4129	Shut In 1-31-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 974	+ 12 = PSIA 986	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 14	+ 12 = PSIA 26	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 35		
Temperature: T = 51 °F	n = F _t = 1.0088	F _p (From Tables) 1.004	Gravity .655	F _g = .9571	

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

$$Q = 12.365(26)(1.0088)(.9571)(1.004) = \underline{\quad 312 \quad} \text{ MCF/D}$$

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

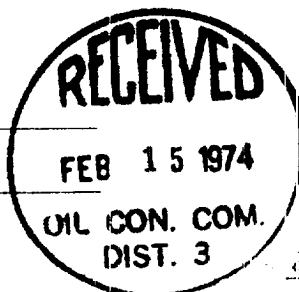
$$Aof = Q \left(\frac{972196}{970971} \right)^n = 312(1.0013)^{.75} = 312(1.0009)$$

$$Aof = \underline{\quad 312 \quad} \text{ MCF/D}$$

Note: Well blew a medium fog of distillate and water throughout the test.

TESTED BY Norton

WITNESSED BY



Loren W. Fothergill
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Well Test Engineer

