

**EL PASO NATURAL GAS COMPANY**  
**OPEN FLOW TEST DATA**

DATE January 29, 1975

Operator El Paso Natural Gas Company		Lease Turner-Hughes #19 (CH)	
Location 1135/N, 1460/E, Sec. 3, T27N, R9W		County San Juan	State New Mexico
Formation Chacra		Pool Harris Mesa Ext.	
Casing: Diameter 2.875	Set At: Feet 3498'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3408	To 3442	Total Depth: PBD 3498' 3486'	Shut In 1-16-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1031	+ 12 = PSIA 1043	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA -	
Flowing Pressure: P PSIG 42	+ 12 = PSIA 54		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 70	
Temperature: T = 55 °F	n = F <sub>t</sub> = 1.0048 .75		F <sub>pv</sub> (From Tables) 1.004	Gravity 0.650	F <sub>g</sub> = 0.9608

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

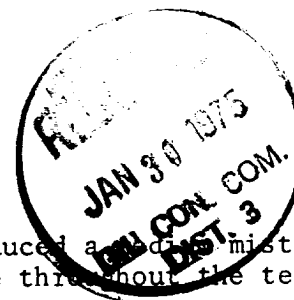
$$Q = 12.365(54)(1.0048)(0.9608)(1.004) = \underline{\quad 647 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1087849}{1082949} \right)^n = 647(1.0045)^{.75} = 647(1.0034)$$

$$Aof = \underline{\quad 649 \quad} \text{ MCF/D}$$

Note: The well produced a good amount of distillate throughout the test.

TESTED BY C. Rhames

WITNESSED BY \_\_\_\_\_

*H. E. McAnally*  
Well Test Engineer