

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

*Marcum*

DATE 12/22/72

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #18 (CH)	
Location 1090/N, 990/W, Sec. 29-T26N-R6W		County Rio Arriba	State NM
Formation Chacra		Pool <del>Undesignated</del> <i>Attero</i>	
Casing: Diameter 2.875	Set At: Feet 3982	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3816	To 3920	Total Depth: 3982	Shut In 12/15/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

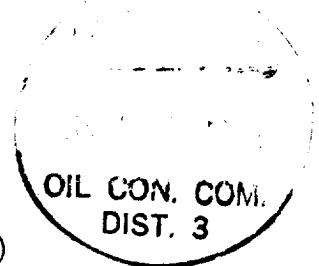
Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion		
Shut-In Pressure, Casing, PSIG 849	+ 12 = PSIA 861	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 64	+ 12 = PSIA 76		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 100	
Temperature: T = 57 °F	F <sub>t</sub> = 1.003	n = .75	F <sub>p</sub> v (From Tables) 1.009	Gravity .655	F <sub>g</sub> = .9571

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>p</sub>v

Q = (12.365)(76)(1.003)(.9571)(1.009) = 910 MCF/D

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

Aof = Q  $\left( \frac{741321}{731321} \right)^n = 910 (1.0137)^{.75} = 910 (1.0102)$



Aof = 919 MCF/D

NOTE: Well produced a very light mist of water throughout test.

TESTED BY Bob Broughton

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

*William D Welch*  
 William D. Welch  
 Well Test Engineer