

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-23-71

Operator El Paso Natural Gas Company		Lease Howell No. 10	
Location 705' N, 1900' W, S 35, T28N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2796	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2640	To 2700	Total Depth: 2796	Shut In 8-13-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 935	+ 12 = PSIA 947	Days Shut-In 10	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 125	+ 12 = PSIA 137		Working Pressure: P <sub>w</sub> PSIG calculated	+ 12 = PSIA 169
Temperature: T = 66 °F	F <sub>t</sub> = .9943	n = .85	F <sub>p</sub> v (From Tables) 1.012	Gravity .650 F <sub>g</sub> = .9608

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

Q = 12.365 x 137 x .9943 x .9608 x 1.012 = 1638 MCF/D

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

Note: Well blew light spray of water and distillates throughout test.

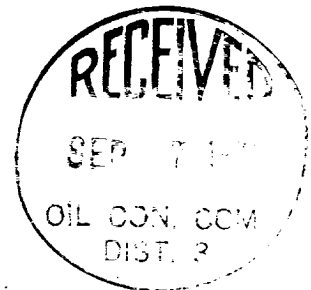
CORRECTED COPY

Aof =  $\left( \frac{896809}{868248} \right)^n = 1638(1.0328)^{.85} = 1638(1.0277)$

Aof = 1684 MCF/D

TESTED BY D. R. Roberts

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



*L. E. Mabe, Jr.*  
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