

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 16, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #63	
Location 1838/N, 1765/W, Sec. 27, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4280'	Tubing: Diameter NO Tubing	Set At: Feet --
Pay Zone: From 4102'	To 4162'	Total Depth: PBD 4280' 4270'	Shut In 4-29-74
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 1057	+ 12 = PSIA 1069	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 154	+ 12 = PSIA 166		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 222	
Temperature: T = 58 °F	n = .85		F _{pv} (From Tables) 1.0180	Gravity .680	F _g = .9393

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365(166)(1.0019)(.9393)(1.0180) = \underline{\hspace{2cm}} 1966 \text{ MCF/D}$$

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

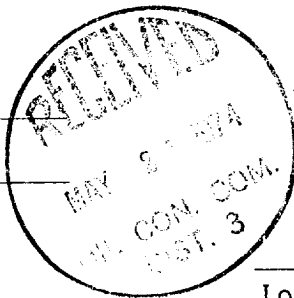
$$Aof = Q \left(\frac{1142761}{1093477} \right)^n = 1966(1.0451)^{.85} = 1966(1.0382)$$

$$Aof = \underline{\hspace{2cm}} 2042 \text{ MCF/D}$$

Note: The well produced a dry flow during the test.

TESTED BY Rhames

WITNESSED BY



Loren W. Fothergill
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Well Test Engineer