

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 #61	
Location 800/S, 1500/E, Sec. 22, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4318'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4120	To 4188	Total Depth: 4318'	PBTD 4308'
Stimulation Method Sandwater Frac		Flow Through Casing XX	Shut In 4-30-74
		Flow Through: Tubing	

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion			
Shut-In Pressure, Casing, 1084	PSIG	+ 12 = PSIA 1096	Days Shut-In 16	Shut-In Pressure, Tubing No Tubing	PSIG	+ 12 = PSIA --
Flowing Pressure: P 148	PSIG	+ 12 = PSIA 160		Working Pressure: P _w Calculated	PSIG	+ 12 = PSIA 214
Temperature: T = 58 °F		n = .85		F _{pv} (From Tables) 1.0160		Gravity .680
	F _t = 1.0019					F _g = .9393

CHOKE VOLUME = Q = C × P_t × Γ_t × Γ_g × F_{pv}

Q = 12.365(160)(1.0019)(.9393)(1.0160) = 1892 MCF/D

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

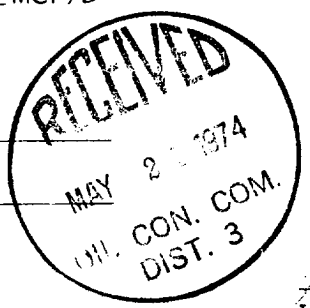
Aof = Q $\left(\frac{1201216}{1155420} \right)^n = 1892(1.0396)^{.85} = 1892(1.0336)$

Aof = 1955 MCF/D

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

TESTED BY Rhames

WITNESSED BY _____



Loren W Fothergill
Loren W. Fothergill
Well Test Engineer