

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 10, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #67	
Location 1840/N, 1660/E, Sec. 36, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4247'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4084	To 4151	Total Depth: PBT 4247' 4236	Shut In 6-27-74
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 1001	+ 12 = PSIA 1013	Days Shut-In 13	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P, PSIG 4	+ 12 = PSIA 16	Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 21		
Temperature: T = 71 °F	n = Ft = .9896	Fpv (From Tables) 1.0040	Gravity .680	Fg = .9393	

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

$$Q = 12.365(16)(.9896)(.9393)(1.0040) = \underline{\hspace{2cm}} 185 \text{ MCF/D}$$

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

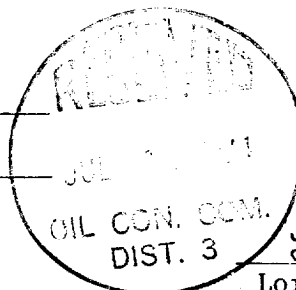
$$Aof = Q \left(\frac{1026169}{1025728} \right)^n = 185(1.004)^{.85} = 185(1.004)$$

$$Aof = \underline{\hspace{2cm}} 185 \text{ MCF/D}$$

Note: The well blew a dry gas during the test.

TESTED BY D. Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer