

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 12, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #68	
Location 870/S, 920/E, Sec. 36, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4190'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4020'	To 4088'	Total Depth: PBTD 4190' 4180'	Shut In 6-4-74
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 979	+ 12 = PSIA 991	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 313	+ 12 = PSIA 325		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 435	
Temperature: T = 68 °F	n = .85		Fpv (From Tables) 1.0350	Gravity .680	F _g = .9393

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

$$Q = 12.365(325)(.9924)(.9393)(1.0350) = \underline{\quad 3877 \quad} \text{ MCF/D}$$

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

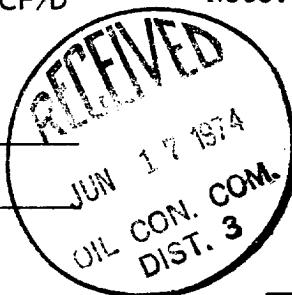
$$Aof = Q \left(\frac{982081}{792856} \right)^n = 3877(1.2387)^{.85} = 3877(1.1995)$$

$$Aof = \underline{\quad 4651 \quad} \text{ MCF/D}$$

Note: The well blew a dry gas flow.

TESTED BY D. Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer