

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

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #89	
Location 1825/S, 1460/E, Sec. 30, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3708'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3560	To 3628	Total Depth: PBD 3708' 3697'	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 1056	+ 12 = PSIA 1068	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 185	+ 12 = PSIA 197		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 256	
Temperature: T = 63 °F	n = .85		F _{pv} (From Tables) 1.0210	Gravity .680	F _g = .9393

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

$$Q = 12.365(197)(.9971)(.9393)(1.0210) = \underline{2329} \text{ MCF/D}$$

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

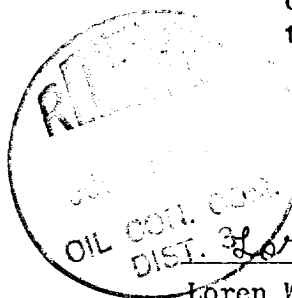
$$Aof = Q \left(\frac{1140624}{1075088} \right)^n = 2329(1.0610)^{.85} = 2329(1.0516)$$

$$Aof = \underline{2449} \text{ MCF/D}$$

Note: The well produced a light fog of water and distillate throughout the test.

TESTED BY D. Norton

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer