

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE September 25, 1975

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #173	
Location 1150/S, 1700/E, Sec. 9, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4253'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4126'	To 4174'	Total Depth: PBDT 4253' 4243'	Shut In 9-18-75
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 1052	+ 12 = PSIA 1064	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 40	+ 12 = PSIA 52		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 69	
Temperature: T = 58 °F	n = Ft = 1.0019 .85		F <sub>pv</sub> (From Tables) 1.009	Gravity 0.655	F <sub>g</sub> = .9571

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

$$Q = 12.365(52)(1.0019)(.9571)(1.009) = \underline{622} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1132096}{1127270} \right)^n = (622)(1.0043)^{.85} = (622)(1.0056)$$

$$Aof = \underline{624} \text{ MCF/D}$$

Note: Blew dry gas throughout test. Gas vented during 3 hour test 93 MCF.

TESTED BY Roger Hardy

WITNESSED BY \_\_\_\_\_

*[Signature]*  
Well Test Engineer

