

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 2, 1975

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #72	
Location 1070/S, 1850/W, Sec. 16, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4224'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4040'	To 4106'	Total Depth: PBSD 4224' 4213'	Shut In 12-12-74
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 1036	+ 12 = PSIA 1048	Days Shut-In 21	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 74	+ 12 = PSIA 86		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 115	
Temperature: T = 50 °F F _t = 1.0098	n = .85		F _{pv} (From Tables) 1.010	Gravity .680 F _g = 0.9393	

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

$$Q = 12.365(86)(1.0098)(0.9393)(1.010) = \underline{\quad 1019 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1098304}{1085079} \right)^n = 1019(1.0122)^{.85} = 1019(1.0104)$$

$$Aof = \underline{\quad 1029 \quad} \text{ MCF/D}$$

Note: The well blew a dry gas.

TESTED BY D. Norton

WITNESSED BY _____

Soren W. Fathergill
Well Test Engineer