

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 21, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #181	
Location 1730/N, 1010/W, Sec. 23, T27N, R5W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3497'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3330'	To 3398'	Total Depth: PBT 3497' 3486'	Shut In 5-13-74
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 1050	+ 12 = PSIA 1062	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 75	+ 12 = PSIA 87	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 112		
Temperature: T = 57 °F	n = Fr=1.0029 .85	F _{pv} (From Tables) 1.0090	Gravity .655	F _g = .9571	

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

Q = 12.365(87)(1.0029)(.9571)(1.0090) = 1042 MCF/D

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

Aof = Q $\left(\frac{1127844}{1115300} \right)^n = 1042(1.0112)^{.85} = 1042(1.0096)$

Aof = 1052 MCF/D

Note: The well blew a light fog of water.

TESTED BY F. Johnson

WITNESSED BY _____

Loren W Fothergill
Loren W. Fothergill
Well Test Engineer

