

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 16, 1973

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #69	
Location 1500/N, 835/W, Sec. 34, T27N, R4W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8473'	Tubing: Diameter 1 1/2	Set At: Feet 8352'
Pay Zone: From 8196	To 8230	Total Depth: 8473	Shut In 10-4-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

MR Choke Size, Inches 4"	Orifice 2.500	Orifice 32.64	Constant: C	Well tested thru 48/64 choke.		
Shut-In Pressure, Casing, PSIG 2252	+ 12 = PSIA	Days Shut-In 43	Shut-In Pressure, Tubing PSIG 1142	+ 12 = PSIA	1154	
Flowing Pressure: P PSIG WH 157 MR 32	+ 12 = PSIA	WH 169 MR 44	Working Pressure: P _w PSIG 569	+ 12 = PSIA	581	
Temperature: T= 66 °F	F _t = .9943	n = .75	F _{pv} (From Tables) 1.004	Gravity .655	F _g = .9571	

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

Q = Calculated from meter readings = 1170 MCF/D

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

Aof = Q $\left(\frac{5125696}{4788135} \right)^n = 1170 (1.0705)^{.75} = 1170 (1.0524)$

Aof = 1231 MCF/D

Note: Well produced 107 bbl. of 48 gravity oil and 21 bbl. water.



TESTED BY Rhames & Norton

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer