

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 26, 1973

Operator El Paso Natural Gas Company		Lease Klein #24	
Location 1550/S, 810/W, Sec. 34, T26N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7572'	Tubing: Diameter 2 3/8"	Set At: Feet 7514'
Pay Zone: From 7222	To 7524	Total Depth: 7572	Shut In 11-13-73
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2251	+ 12 = PSIA 2263	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 2050	+ 12 = PSIA 2062	
Flowing Pressure: P PSIG 190	+ 12 = PSIA 202		Working Pressure: P _w PSIG 829	+ 12 = PSIA 841	
Temperature: T = 68 °F	n = Ft = .9924		Fpv (From Tables) 1.022	Gravity .700	Fg = .9258

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

Q = (12.365) (202) (.9924) (.9258) (1.022) = 2345 MCF/D

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

Aof = Q $\left(\frac{5121169}{4413888} \right)^n = 2345 (1.1602)^{.75} = 2345 (1.1179)$

Aof = 2622 MCF/D

Note: Unloaded black oil after 5 min.,
medium mist throughout test.



TESTED BY Rhames

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer