

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 3, 1973

Operator El Paso Natural Gas Company		Lease EPNG Com I #10	
Location 1464 N, 1560/W, Sec. 32, T31N, R8W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7987'	Tubing: Diameter 1.900	Set At: Feet 7927'
Pay Zone: From 7724	To 7922'	Total Depth: 7987	Shut In 11-12-73
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2151	+ 12 = PSIA 2163	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 1640	+ 12 = PSIA 1652	
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190		Working Pressure: P _w PSIG 1456	+ 12 = PSIA 1468	
Temperature: T = 56 °F	n = .75		F _{pv} (From Tables) 1.014	Gravity .600	F _g = 1.000

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

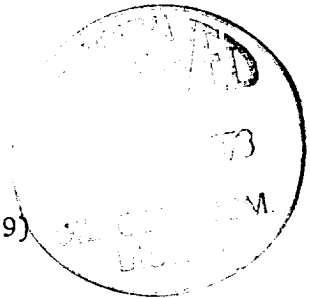
Q = (12.365) (190) (1.0039) (1.000) (1.014) = 2392 MCF/D

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

Aof = Q $\left(\frac{4678569}{2523545} \right)^n = (2392) (1.8540)^{.75} = 2392 (1.5889)$

Aof = 3800 MCF/D

Note: Blew heavy fog of frac water for entire test.



TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer