

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 14, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-4 Unit No. 31	
Location 800'S, 1090'W, Sec. 32, T-28-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8344	Tubing: Diameter 2.375	Set At: Feet 8228
Pay Zone: From 8102	To 8290	Total Depth: 8344	Shut In 2-3-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2620	+ 12 = PSIA 2632	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2644	+ 12 = PSIA 2656	
Flowing Pressure: P PSIG 299	+ 12 = PSIA 311		Working Pressure: P _w PSIG 1165	+ 12 = PSIA 1177	
Temperature: T = 79 °F	n = F _t = .9822		F _p v (From Tables) 1.030	Gravity .680	F _g = .9393

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

Q = (12.365)(311)(.9822)(.9393)(1.030) = 3654 MCF/D

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

Aof = $\left(\frac{7054336}{5669007} \right)^n = (3654)(1.2443)^{.75} = (3654)(1.1781)$

NOTE: Blew light fog of water and distillate for entire test

Aof = 4305 MCF/D

TESTED BY Jesse B. Goodwin

CHECKED BY H. E. McAnally

H. I. Kendrick
H. I. Kendrick

