

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/22/72

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #20 (CH)	
Location 1190/S, 890/W, Sec. 27-T26N, R6W		County Rio Arriba	State NM
Formation Chacra <i>Eyt</i>		Pool Undesignated <i>Altero</i>	
Casing: Diameter 2.875	Set At: Feet 3561	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3400	To 3506	Total Depth: 3561	Shut In 12/15/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion		
Shut-In Pressure, Casing, PSIG 889	+ 12 = PSIA 901	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA		
Flowing Pressure: P PSIG 82	+ 12 = PSIA 94	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 121			
Temperature: T = 58 °F	n = .75	F _{pv} (From Tables) 1.009	Gravity .655	F _g = .9571		

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

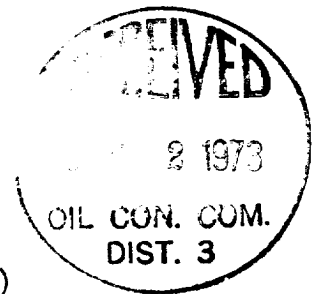
Q = (12.365)(94)(1.002)(.9571)(1.009) = 1125 MCF/D

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

Aof = Q $\left(\frac{811801}{797160} \right)^n = 1125 (1.0184)^{.75} = 1125 (1.0137)$

Aof = 1140 MCF/D

NOTE: Well blew a light spray of water the last hour of test.



TESTED BY Roger Hardy

WITNESSED BY

William D. Welch
William D. Welch
Well Test Engineer