

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/20/72

Operator EL PASO NATURAL GAS COMPANY		Lease Vaughn #22 (CH)	
Location 1550/N, 1740/E, Sec. 29, T26N, R6W		County Rio Arriba	State NM
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3988	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3808	To 3910	Total Depth: 3988	Shut In 12/13/72
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 791	+ 12 = PSIA 803	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
Flowing Pressure: P PSIG 16	+ 12 = PSIA 28	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 37		
Temperature: T = 54 °F F _t = 1.006	n = .75	F _{pv} (From Tables) 1.004	Gravity .655	F _g = .9571	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365)(28)(1.006)(.9571)(1.004) = \underline{335} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{644809}{643440} \right)^n = 335 (1.0021)^{.75} = 335 (1.0016)$$

$$Aof = \underline{336} \text{ MCF/D}$$

NOTE: Well produced a light mist of water thruout test.

TESTED BY Bobby Broughton

WITNESSED BY _____

William D Welch
William D. Welch
Well Test Engineer

