

OPEN FLOW TEST DATA

DATE August 30, 1977

Operator El Paso Natural Gas Company		Lease Kimball Com #1	
Location NW 23-25-06		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2 7/8"	Set At: Feet 3572'	Tubing: Diameter T/C	Set At: Feet
Pay Zone: From 3364	To 3475	Total Depth: 3572	Shut In 8-23-77
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 667	+ 12 = PSIA 679	Days Shut-In 7	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA
Flowing Pressure: P PSIG 15	+ 12 = PSIA 27		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 35
Temperature: T = 54 °F F _t = 1.006	n = .75		F _{pv} (From Tables) 1.004	Gravity .670 F _g = .9463

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

$$Q = 12.365(27)(1.006)(.9463)(1.004) = \underline{\quad 319 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{461041}{459816} \right)^n = 319(1.0027)^{.75} = 319(1.0020)$$

$$Aof = \underline{\quad 320 \quad} \text{ MCF/D}$$

Note: After first hour well made small slugs of water for rest of test.
Well vented 53 MCF of gas to atmosphere during test.

TESTED BY H. McAnally

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

