

OPEN FLOW TEST DATA

DATE January 22, 1974

Operator El Paso Natural Gas Company		Lease Allison Unit #40	
Location 1000/N, 990/E, Sec. 19, T32N, R6W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8181'	Tubing: Diameter 2.375	Set At: Feet 8070'
Pay Zone: From 7934	To 8064	Total Depth: PBD 8181 8168	Shut In 1-8-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2480	+ 12 = PSIA 2492	Days Shut-in 14	Shut-In Pressure, Tubing PSIG 1204	+ 12 = PSIA 1216	
Flowing Pressure: P PSIG 100	+ 12 = PSIA 112		Working Pressure: P _w PSIG 581	+ 12 = PSIA 593	
Temperature: T = 74°F	F _t = .9868	n = .75	F _{pv} (From Tables) 1.008	Gravity .600	F _g = 1.000

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

$$Q = 12.365(112)(.9868)(1.000)(1.008) = \underline{\quad 1378 \quad} \text{ MCF/D}$$

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

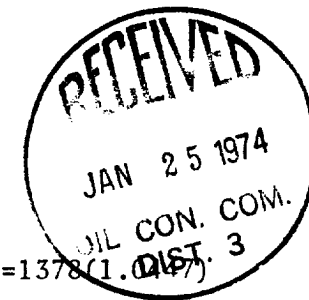
$$Aof = Q \left(\frac{6210064}{5858415} \right)^n = 1378(1.0600)^{.75} = 1378(1.047) = \underline{\quad 1439 \quad} \text{ MCF/D}$$

$$Aof = \underline{\quad 1439 \quad} \text{ MCF/D}$$

Note: Well blew a heavy to medium mist throughout test.

TESTED BY Rhames

WITNESSED BY _____



Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer