

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 8, 1974

Operator El Paso Natural Gas Company		Lease Vaughn #23 (CH)	
Location 1840/N, 1840/W, Sec. 27, T26N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3926'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3804'	To 3906'	Total Depth: PBT 3926' 3916'	Shut In 6-6-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 909	+ 12 = PSIA 921	Days Shut-In 29	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 77	+ 12 = PSIA 89	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 117		
Temperature: T = 60 °F	n = F _i = 1.0000	F _{pv} (From Tables) 1.0090	Gravity .655 F _g = .9571		

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = 12.365(89)(1.0000)(.9571)(1.0090) = \underline{\quad 1063 \quad} \text{ MCF/D}$$

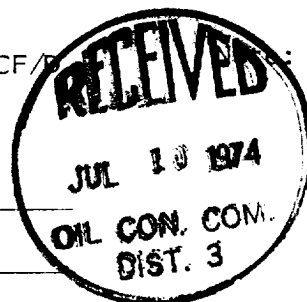
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left(\frac{848241}{834552} \right)^n = 1063(1.0164)^{.75} = 1063(1.0123)$$

$$Aof = \underline{\quad 1076 \quad} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____



The well blew a light fog of water and distillate during the test.

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer