

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-19-71

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 124	
Location 1550 N. 850 W. S 28, T27N, R5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7660	Tubing: Diameter 1.990	Set At: Feet 7610
Pay Zone: From 7437	To 7632	Total Depth: 7660	Shut In 4-9-71
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1445	+ 12 = PSIA 1457	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 1265	+ 12 = PSIA 1277	
Flowing Pressure: P PSIG 310	+ 12 = PSIA 322	Working Pressure: Pw PSIG 493	+ 12 = PSIA 505		
Temperature: T = 72 °F	n = Ft = .9887	Fpv (From Tables) 1.030	Gravity .655	Fg = .9571	

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

$$Q = 12.365 \times 322 \times .9887 \times .9571 \times 1.030 = 3881 \text{ MCF/D}$$

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

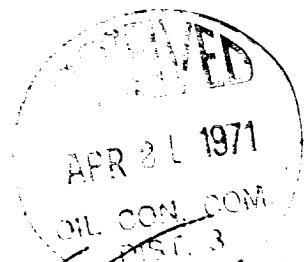
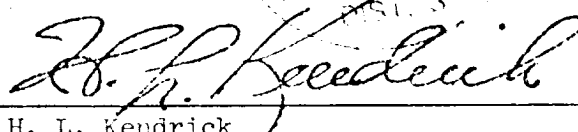
Note:

$$Aof = \left(\frac{2122849}{1867824} \right)^n = (3881)(1.1365)^{.75} = (3881)(1.1007)$$

$$Aof = 4272 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



 H. L. Kendrick