

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 17, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #188	
Location 810/S, 1750/W, Sec. 26, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7808'	Tubing: Diameter 1.900	Set At: Feet 7707'
Pay Zone: From 7547	To 7739	Total Depth: PBDT 7808 7802	Shut In 12-20-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2620	+ 12 = PSIA 2632	Days Shut-In 27	Shut-In Pressure, Tubing PSIG 2252	+ 12 = PSIA 2264	
Flowing Pressure: P PSIG 374	+ 12 = PSIA 386		Working Pressure: P _w PSIG 617	+ 12 = PSIA 629	
Temperature: T = 60 °F	n = .75		Fpv (From Tables) 1.039	Gravity .650	F _g = .9608

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

$$Q = 12.365 (386) (1.000) (.9608) (1.039)$$

= 4765 MCF/D

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

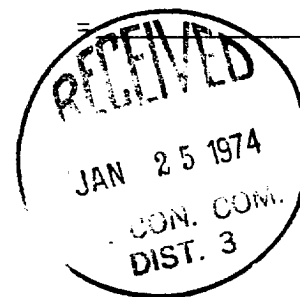
$$Aof = Q \left(\frac{6927424}{6531783} \right)^n = 4765(1.0606)^{.75} = 4765(1.0451)$$

Aof = 4979 MCF/D

Note: The well blew a medium mist of distillate and water through-out test.

TESTED BY Rhames

WITNESSED BY



Loren W. Fothergill
Loren Fothergill
Well Test Engineer