

OPEN FLOW TEST DATA

DATE August 23, 1972

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #164	
Location 340/N, 1460/E, Sec. 13-T28N-R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 2065	Tubing: Diameter 1.900	Set At: Feet 8000
Pay Zone: From 7316	To 8031	Total Depth: 8065	Shut In 7/29/72
Stimulation Method S.W.F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2617	+ 12 = PSIA 2629	Days Shut-In 24	Shut-In Pressure, Tubing PSIG 2677	+ 12 = PSIA 2689	
Flowing Pressure: P PSIG 327	+ 12 = PSIA 339		Working Pressure: P _w PSIG 525	+ 12 = PSIA 537	
Temperature: T = 72 °F F _t = .9887	n = .75		F _{pv} (From Tables) 1.031	Gravity .650 F _g = .9603	

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

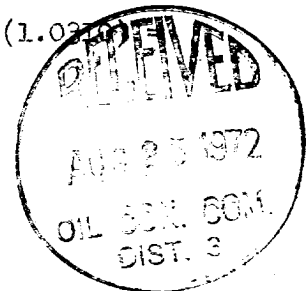
$$Q = 12.365 \times 339 \times .9887 \times .9608 \times 1.031 = 4105 \text{ MCF/D}$$

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

Note: Well Produced light mist of water throughout test.

$$Aof = \left(\frac{7230721}{6942352} \right)^n = (4105) (1.0415)^{.75} = (4105) (1.024)$$

$$Aof = 4233 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

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