

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-6-71

Operator El Paso Natural Gas Company		Lease San Juan 29-6 Unit No. 82	
Location 1090 N, 1138 E, S25, T29N, R6W		County Rio Arriba	State New Mexico
Formation Bakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8048	Tubing: Diameter 1.990	Set At: Feet 8028
Pay Zone: From 7896	To 8038	Total Depth: 8048	Shut In 3-28-71
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 2677	+ 12 = PSIA 2689	Days Shut-In 9	Shut-In Pressure, Tubing PSIG 2250	+ 12 = PSIA 2262	
Flowing Pressure: P PSIG 487	+ 12 = PSIA 499		Working Pressure: P _w PSIG 730	+ 12 = PSIA 742	
Temperature: T = 84 °F	n = F _t = .9777		F _{pv} (From Tables) 1.033	Gravity .590	F _g = 1.008

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

$$Q = 12.365 \times 499 \times .9777 \times 1.008 \times 1.033 = 6281 \text{ MCF/D}$$

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

Note: Well blew light spray of hydrocarbons throughout test.

$$Aof = \left(\frac{7230721}{6680157} \right)^n = 6281(1.0824)^{.75} = 6281(1.0611)$$

$$Aof = 6665 \text{ MCF/D}$$



TESTED BY B. J. Broughton & R. R. Hardie

WITNESSED BY

H. L. Kendrick