

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 9, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 119	
Location 1500'N, 1090'E, Sec. 22, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7923	Tubing: Diameter 2.375	Set At: Feet 7808
Pay Zone: From 7646	To 7831	Total Depth: 7923	Shut In 11-28-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2662	+ 12 = PSIA 2674	Days Shut-In 11	Shut-In Pressure, Tubing PSIG 2057	+ 12 = PSIA 2069	
Flowing Pressure: P, PSIG 275	+ 12 = PSIA 287		Working Pressure: P _w PSIG 963	+ 12 = PSIA 975	
Temperature: T = .72 °F	F _t = .9887	n = .75	F _{pv} (From Tables) 1.033	Gravity .725	F _g = .9097

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

$$Q = (12.365) (287) (.9887) (.9097) (1.033) = \underline{3,297} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7,150,276}{6,199,651} \right)^n = (3297) (1.1533)^{.75} = (1.1130) (3297)$$

NOTE: Unloaded large amount of fluid after 5 minutes then heavy mist of H₂O and distillate for remainder of test.

$$Aof = \underline{3,670} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED BY H. E. McAnally

WITNESSED BY

Lewis D. Galloway
Lewis D. Galloway

