

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 24, 1965

Operator Beta Development Company		Lease San Juan 28-6 Unit No. 117	
Location 1545'S, 1700'E, Section 10, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7742	Tubing: Diameter 2.375	Set At: Feet 7691
Pay Zone: From 7538	To 7725	Total Depth: 7743	Shut In 5-17-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Company Distribution Only	
Shut-In Pressure, Casing, 2464 PSIG	+ 12 = PSIA 2476	Days Shut-In 7	Shut-In Pressure, Tubing 2449 PSIG	+ 12 = PSIA 2461
Flowing Pressure: P 377 PSIG	+ 12 = PSIA 389		Working Pressure: P _w 1251 PSIG	+ 12 = PSIA 1263
Temperature: T = 75 °F F _t = .9859	n = .75		F _{pv} (From Tables) 1.037	Gravity .670 F _g = .9463

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

$$Q = (12.365) (389) (.9859) (.9463) (1.037) = \underline{4,654} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,130,576}{4,535,407} \right)^n = (4654) (1.3517)^{.75} = (4654) (1.2545) = \underline{5838} \text{ MCF/D}$$



NOTE: Well produced very slight mist at end of test.

$$Aof = \underline{5838} \text{ MCF/D}$$

TESTED BY George Hoffman (Beta)WITNESSED BY H. E. McAnally (EPNG)

Lewis D. Galloway
Lewis D. Galloway