

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 13, 1965

Operator Beta Development Company		Lease San Juan 29-6 Unit No. 87	
Location 1500'N, 880'E, Section 33, T-29-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7813	Tubing: Diameter 2.375	Set At: Feet 7724
Pay Zone: From 7628	To 7732	Total Depth: 7813	Shut In 5-6-65
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, 2543 PSIG	+ 12 = PSIA 2555	Days Shut-In 7	Shut-In Pressure, Tubing 2691 PSIG	+ 12 = PSIA 2703
Flowing Pressure: P 324 PSIG	+ 12 = PSIA 336		Working Pressure: P _w 1171 PSIG	+ 12 = PSIA 1183
Temperature: T = 73 °F	F _t = .9877	n = .75	F _p v (From Tables) 1.033	Gravity .670 F _g = .9463

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_pv

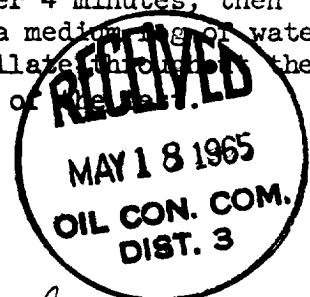
$$Q = (12.365) (336) (.9877) (.9463) (1.033) = \underline{4011} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{7,306,209}{5,906,720} \right)^n = (4011) (1.2369)^{.75} = (4011) (1.1729)$$

$$A_{of} = \underline{4705} \text{ MCF/D}$$

NOTE: Well unloaded a large slug of water after 4 minutes, then produced a medium slug of water and distillate through the remainder of test.



TESTED BY George Hoffman (Beta)

WITNESSED BY H. E. McAnally (EPNG)

Lewis D. Galloway
Lewis D. Galloway