

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 16, 1964

Operator Beta Development Company		Lease San Juan Unit 29-6 No. 78	
Location 1080'S, 1100'W, Section 22, T-29-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7765	Tubing: Diameter 2.375	Set At: Feet 7699
Pay Zone: From 7559	To 7725	Total Depth: 7765	Shut In 10-9-64
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2665	+ 12 = PSIA 2677	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2661	+ 12 = PSIA 2673	
Flowing Pressure: P PSIG 214	+ 12 = PSIA 226		Working Pressure: P _w PSIG 870	+ 12 = PSIA 882	
Temperature: T = 76 °F	F _t = .9850	n = .75	F _{pv} (From Tables) 1.021	Gravity .670	F _g = .9463

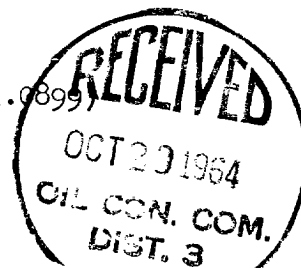
$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = (12.365) (226) (.9850) (.9463) (1.021) = \underline{2,659} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{7,166,329}{6,388,405} \right)^n = (2659) (1.1217)^{.75} = (2659) (1.0899)$$

$$A_{of} = \underline{2898} \text{ MCF/D}$$



NOTE: Well produced a heavy spray of water and distillate throughout the test.

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

Lewis D. Galloway
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