

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 30, 1965

Operator Beta Development Company		Lease San Juan 29-6 Unit No. 90	
Location 1850'N, 1620'E, Section 15, T-29-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8148	Tubing: Diameter 2.375	Set At: Feet 8079
Pay Zone: From 8024	To 8126	Total Depth: 8148	Shut In 6-23-65
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, 2463 PSIG	+ 12 = PSIA 2475	Days Shut-In 7	Shut-In Pressure, Tubing 2464 PSIG	+ 12 = PSIA 2476	
Flowing Pressure: P 203 PSIG	+ 12 = PSIA 215		Working Pressure: Pw 773 PSIG	+ 12 = PSIA 785	
Temperature: T = 72 °F	Ft = .9887	n = .75	Fpv (From Tables) 1.021	Gravity .670	Fg = .9463

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

$$Q = (12.365) (215) (.9887) (.9463) (1.021) = \underline{2540} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,130,576}{5,514,351} \right)^n = (2540) (1.1117)^{.75} = (2540) (1.0825)$$

$$Aof = \underline{2750} \text{ MCF/D}$$

NOTE: Well produced a light fog of distillate and water throughout the test.

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

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