

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 23, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 144	
Location 850'S, 1750'W, Sec. 17, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7934	Tubing: Diameter 2.375	Set At: Feet 7648
Pay Zone: From 7634	To 7888	Total Depth: 7939	Shut In 10-13-68
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 2716	+ 12 = PSIA 2728	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2709	+ 12 = PSIA 2721	
Flowing Pressure: P PSIG 472	+ 12 = PSIA 484		Working Pressure: Pw PSIG 1521	+ 12 = PSIA 1533	
Temperature: T = 79 °F	n = Ft = .9822		Fpv (From Tables) 1.048	Gravity .675	Fg = .9427

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

$$Q = (12.365)(484)(.9822)(.9427)(1.048) = \underline{5807} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7441984}{5091895} \right)^n = (5807)(1.4615)^{.75} = (5807)(1.3292)$$

NOTE: The well produced a light mist of water and distillate throughout the test.

$$Aof = \underline{7719} \text{ MCF/D}$$

TESTED BY B. J. Broughton
 Calculated BY H. E. McAnally
 WITNESSED BY H. E. McAnally
 Checked by G. A. Libman



H. L. Kendrick
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