

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 11, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 124	
Location 1451'S, 1452'W, Sec. 11, T-27-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7744	Tubing: Diameter 2.375	Set At: Feet 7654
Pay Zone: From 7464	To 7646	Total Depth: 7750	Shut In 10-22-65
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 2527	+ 12 = PSIA 2539	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 2550	+ 12 = PSIA 2562	
Flowing Pressure: P PSIG 435	+ 12 = PSIA 447		Working Pressure: Pw PSIG 1117	+ 12 = PSIA 1129	
Temperature: T = 78 °F	F _r = .9831	n = .750	F _{pv} (From Tables) 1.045	Gravity 670	.9463

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

$$Q = (12.365) (447) (.9831) (.9463) (1.045) = 5373 \text{ MCF/D}$$

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

$$Aof = \left(\frac{6,563,844}{5,289,203} \right)^n = (5373) (1.2409)^{.75} = (5373) (1.1758)$$

NOTE: Blew medium to heavy fog of distillate and water for 20 minutes. Blew light fog for remainder of test.

$$Aof = 6318 \text{ MCF/D}$$

TESTED BY Don NortonCHECKED BY W. E. Dawson

WITNESSED BY



Lewis D. Galloway
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