

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 13, 1968

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 145	
Location 1486'N, 1090'E, Sec. 19, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7880	Tubing: Diameter 2.375	Set At: Feet 7604
Pay Zone: From 7634	To 7835	Total Depth: 7892	Shut In 10-26-68
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 2689	+ 12 = PSIA 2701	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 2680	+ 12 = PSIA 2692	
Flowing Pressure: P PSIG 443	+ 12 = PSIA 455		Working Pressure: P _w PSIG 1458	+ 12 = PSIA 1470	
Temperature: T = 71 °F	n = .75		F _{pv} (From Tables) 1.047	Gravity .670	F _g = .9463

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

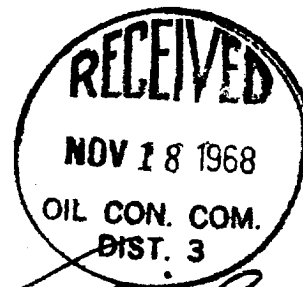
$$Q = 12.365)(455)(.9896)(.9463)(1.047) = 5516 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7295401}{5134501} \right)^n = (5516)(1.4203)^{.75} = (5516)(1.3014)$$

Note: This well produced a medium fog of water and distillate throughout the three hour test.

$$Aof = 7179 \text{ MCF/D}$$

TESTED BY J.B. GoodwinCalculated H.E. McAnallyWITNESSED BY H.E. McAnallyChecked by G. A. Lippman

H. L. Kendrick

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