

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 7, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 39	
Location 846'S, 1693'W, Sec. 5, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8121	Tubing: Diameter 2.375	Set At: Feet 7879
Pay Zone: From 7896	To 8100	Total Depth: 8121	Shut In 9-29-68
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 2551	+ 12 = PSIA 2563	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 2547	+ 12 = PSIA 2559	
Flowing Pressure: P PSIG 254	+ 12 = PSIA 266		Working Pressure: P _w PSIG 1004	+ 12 = PSIA 1016	
Temperature: T = 84 °F	F _t = .9777	n = .75	F _{pv} (From Tables) 1.024	Gravity .670	F _g = .9463

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

$$Q = (12.365)(266)(.9777)(.9463)(1.024) = \underline{3116} \text{ MCF/D}$$

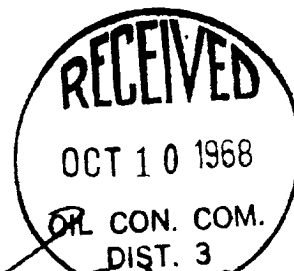
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{6568969}{5536713} \right)^n = (3116)(1.1864)^{.75} = (3116)(1.1369)$$

NOTE: The well produced a heavy fog of distillate and water throughout the test.

$$Aof = \underline{3543} \text{ MCF/D}$$

TESTED BY Don Norton
CALCULATED
WITNESSED BY Herman E. McAnally



H. L. Kendrick
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