

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 19, 1968

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 41	
Location 1550'S, 1550'W, Sec. 7, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8204	Tubing: Diameter 2.375	Set At: Feet 7953
Pay Zone: From 7970	To 8175	Total Depth: 8204	Shut In 9-12-68
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 2528	+ 12 = PSIA 2540	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2556	+ 12 = PSIA 2568	
Flowing Pressure: P PSIG 415	+ 12 = PSIA 427		Working Pressure: P _w PSIG 1334	+ 12 = PSIA 1346	
Temperature: T = 83 °F	F _t = .9786	n = .75	F _{pv} (From Tables) 1.037	Gravity .650	F _g = .9608

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

$$Q = (12.365)(427)(.9786)(.9608)(1.037) = \underline{5148} \text{ MCF/D}$$

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

$$Aof = \left(\frac{6594624}{4782908} \right)^n = (5148)(1.3737)^{.75} = (5148)(1.2723)$$

Note: The well produced a heavy spray of distillate and water throughout the test.

$$Aof = \underline{6550} \text{ MCF/D}$$

TESTED BY D. RobertsCalculated
WITNESSED BY T. B. Grant

T. B. Grant
Tom B. Grant