

OPEN FLOW TEST DATA

CORRECTED COPY

DUAL COMPLETION

DATE December 9, 1965

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 8 (MV) (CWWO)	
Location 1650'S, 1090'W, Section 32, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5645	Tubing: Diameter 2.375	Set At: Feet 5474
Pay Zone: From 5416	To 5496	Total Depth: 5645	Shut In 12-2-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 12.365		Baker Model "D" Packer Set at 4374'.	
Shut-In Pressure, Casing, PSIG (PC) 741	+ 12 = PSIA 753	Days Shut-In 7	Shut-In Pressure, Tubing PSIG (MV) 839	+ 12 = PSIA 851
Flowing Pressure: P PSIG 246	+ 12 = PSIA 258		Working Pressure: Pw PSIG (Calc) 513	+ 12 = PSIA
Temperature: T = 63 °F F _r = .9971	n = .75		F _{pv} (From Tables) 1.029	Gravity .690 F _g = .9325

Initial SIPT (PC) = 741 PSIG

Final SIPC (PC) = 744 PSIG

CHOKE VOLUME = Q = C × P_i × F_r × F_g × F_{pv}

$$Q = (12.365) (258) (.9971) (.9325) (1.029) = 3,052 \text{ MCF/D}$$

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

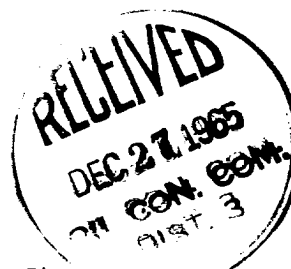
$$A_{of} = \left(\frac{724,201}{461,032} \right)^n = (3,052) (1.5708)^{.75} = (3,052) (1.4035)$$

NOTE: Blew a light fog of light hydrocarbons throughout test.

$$A_{of} = 4,283 \text{ MCF/D}$$

TESTED BY R. Headrick

CHECKED BY Tom B. Grant



Lewis D. Galloway
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