

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 31, 1964

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 69(MV) (OWWO)	
Location 1020'N, 920'E, Sec. 7, T-27-N, R-5-W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5.500	Set At: Feet 5850	Tubing: Diameter 1.660	Set At: Feet 5715
Pay Zone: From 5099	To 5706	Total Depth: 7900	Shut In 12-6-64
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75		Choke Constant: C 12.365		Baker Model "D" Packer set at 5810'	
Shut-In Pressure, Casing, PSIG 872 (MV)	+ 12 = PSIA 884	Days Shut-In 25	Shut-In Pressure, Tubing PSIG 855 (MV)	+ 12 = PSIA 867	
Flowing Pressure: P PSIG 319	+ 12 = PSIA 331		Working Pressure: P _w PSIG 382	+ 12 = PSIA 394	
Temperature: T = 63 °F	F _t = .9971	n = .750	F _{pv} (From Tables) 1.032	Gravity .650	F _g = .9608

ISIPT (DK) = 1857 psig

FSIPT (DK) = 1870 psig

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

$$Q = (12.365)(331)(.9971)(.9608)(1.032) = 4046 \text{ MCF/D}$$

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

$$Aof = \left(\frac{781,456}{626,220} \right)^n = (1.2478)^{.75} (4046) = (1.1810)(4046) = 4778$$



NOTE: Well blew dry gas throughout test.

Aof = 4778 MCF/D

TESTED BY Jesse B. Goodwin

CHECKED BY H. L. Kendrick

Lewis D. Galloway

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